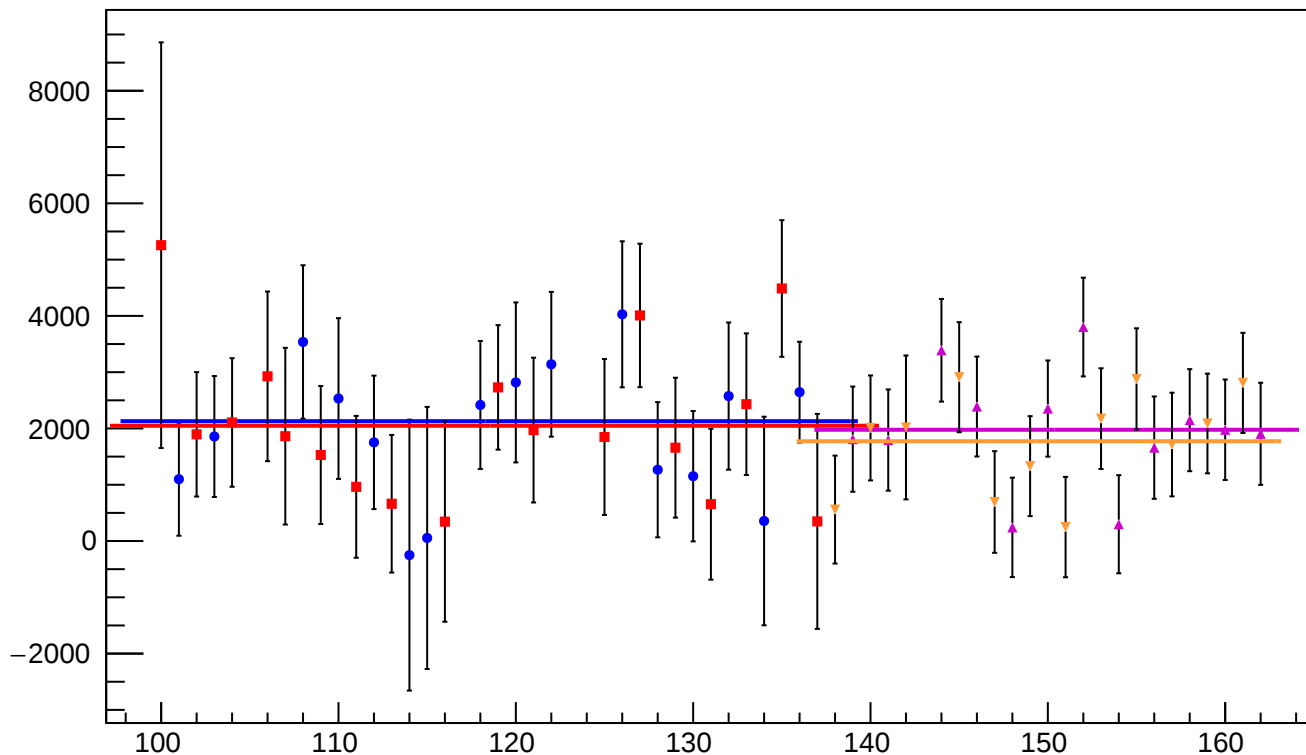


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2129.586+/-316.501

Left Out: 1772.927+/-268.710

Right Out: 2048.278+/-314.118

Left In: 1976.901+/-258.072

$\chi^2/\text{NDF}$ : 9.8/15

$\chi^2/\text{NDF}$ :10.9/11

$\chi^2/\text{NDF}$ : 13.2/17

$\chi^2/\text{NDF}$ :14.9/11

Left: 1879.032+/-186.132

Right: 2088.625+/-222.953

In: 2037.876+/-200.010

Out: 1889.280+/-204.191

All: 1965.115+/-142.884

$\chi^2/\text{NDF}$ : 26.1/23

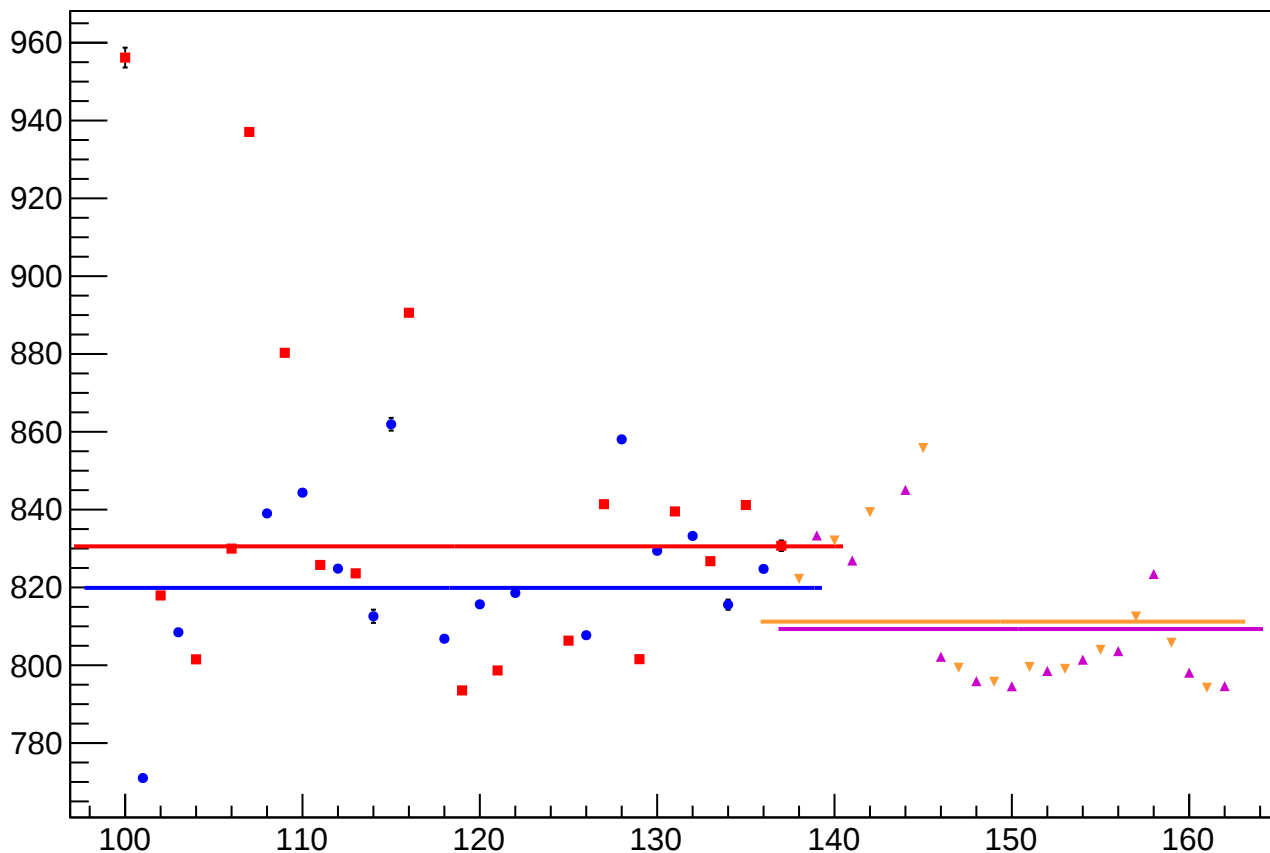
$\chi^2/\text{NDF}$ : 23.0/33

$\chi^2/\text{NDF}$ :24.9/27

$\chi^2/\text{NDF}$ :24.5/29

$\chi^2/\text{NDF}$ : 49.6/57

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



Right In: 819.883 $\pm$ 0.224  $\chi^2$ /NDF: 9537.8/15

Left Out: 811.211 $\pm$ 0.190  $\chi^2$ /NDF: 8994.5/11

Right Out: 830.559 $\pm$ 0.222  $\chi^2$ /NDF: 24429.2/17

Left In: 809.309 $\pm$ 0.182  $\chi^2$ /NDF: 8215.0/11

Left: 810.221 $\pm$ 0.132  $\chi^2$ /NDF: 17261.7/23

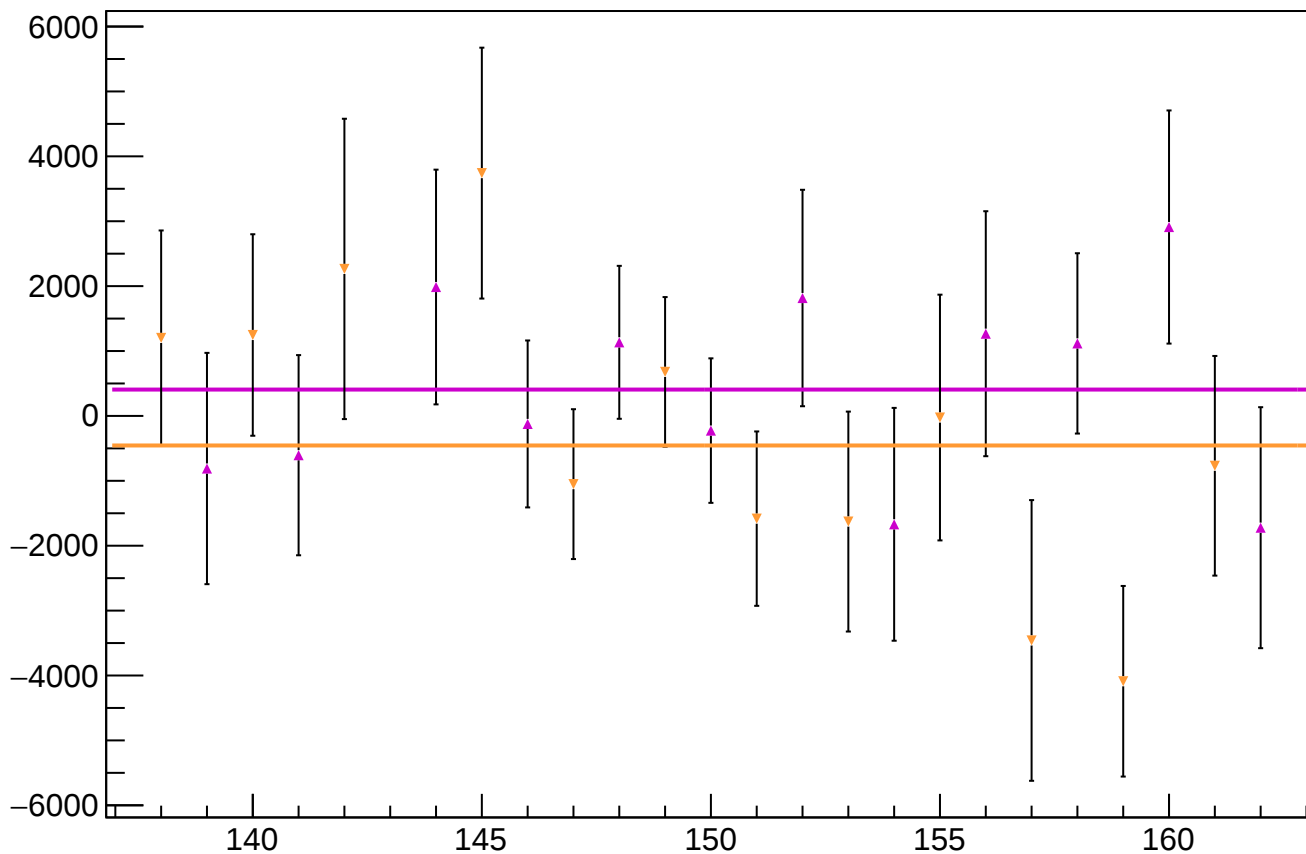
Right: 825.261 $\pm$ 0.158  $\chi^2$ /NDF: 35113.5/33

In: 813.531 $\pm$ 0.141  $\chi^2$ /NDF: 19093.7/27

Out: 819.387 $\pm$ 0.144  $\chi^2$ /NDF: 37805.1/29

All: 816.398 $\pm$ 0.101  $\chi^2$ /NDF: 57738.1/57

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



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

Left Out: -455.425+/-449.720  $\chi^2/\text{NDF}$ :18.9/11

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

Left In: 406.097+/-436.794  $\chi^2/\text{NDF}$ :8.3/11

Left: -12.105+/-313.330  $\chi^2/\text{NDF}$ : 29.1/23

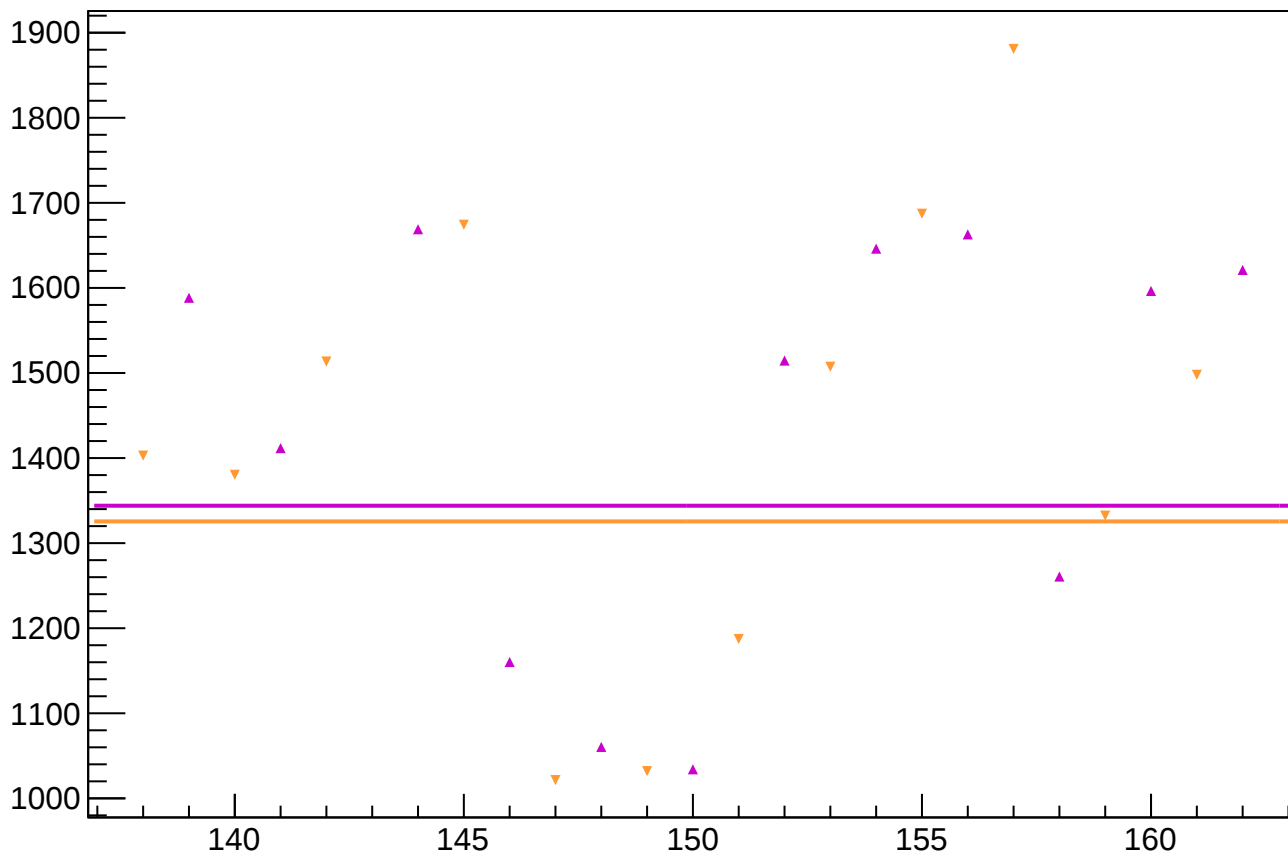
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 406.097+/-436.794  $\chi^2/\text{NDF}$ :8.3/11

Out: -455.425+/-449.720  $\chi^2/\text{NDF}$ :18.9/11

All: -12.105+/-313.330  $\chi^2/\text{NDF}$ : 29.1/23

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



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

Left Out: 1325.551+/-0.318  $\chi^2/\text{NDF}$ :623378.2/11

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

Left In: 1343.988+/-0.309  $\chi^2/\text{NDF}$ :643569.0/11

Left: 1335.038+/-0.222  $\chi^2/\text{NDF}$ : 1268677.0/23

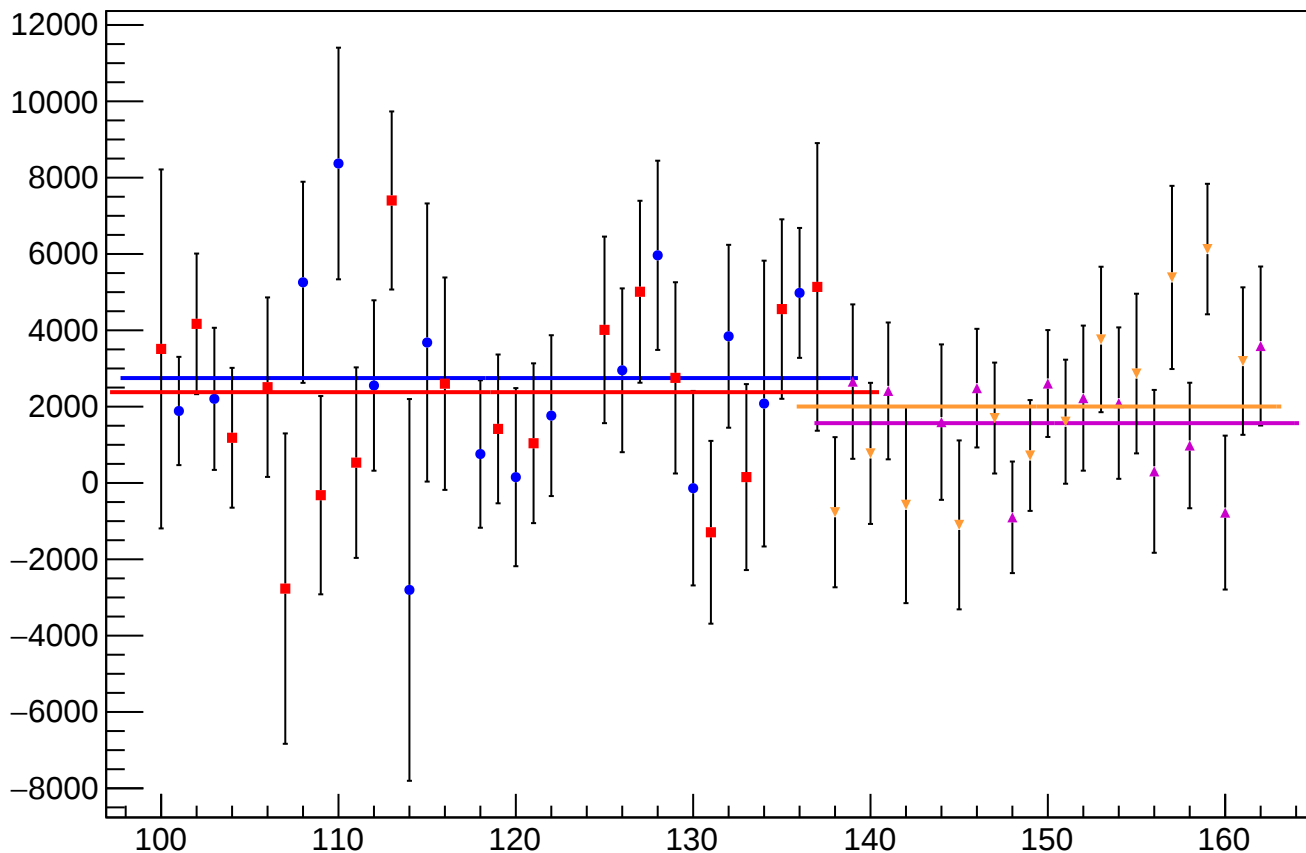
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1343.988+/-0.309  $\chi^2/\text{NDF}$ :643569.0/11

Out: 1325.551+/-0.318  $\chi^2/\text{NDF}$ :623378.2/11

All: 1335.038+/-0.222  $\chi^2/\text{NDF}$ : 1268677.0/23

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



Right In: 2748.777 $\pm$ 562.943  $\chi^2/\text{NDF}: 13.5/15$

Left Out: 2003.184 $\pm$ 533.006  $\chi^2/\text{NDF}: 15.5/11$

Right Out: 2379.450 $\pm$ 568.967  $\chi^2/\text{NDF}: 16.2/17$

Left In: 1567.400 $\pm$ 513.996  $\chi^2/\text{NDF}: 7.2/11$

Left: 1777.382 $\pm$ 369.988  $\chi^2/\text{NDF}: 23.0/23$

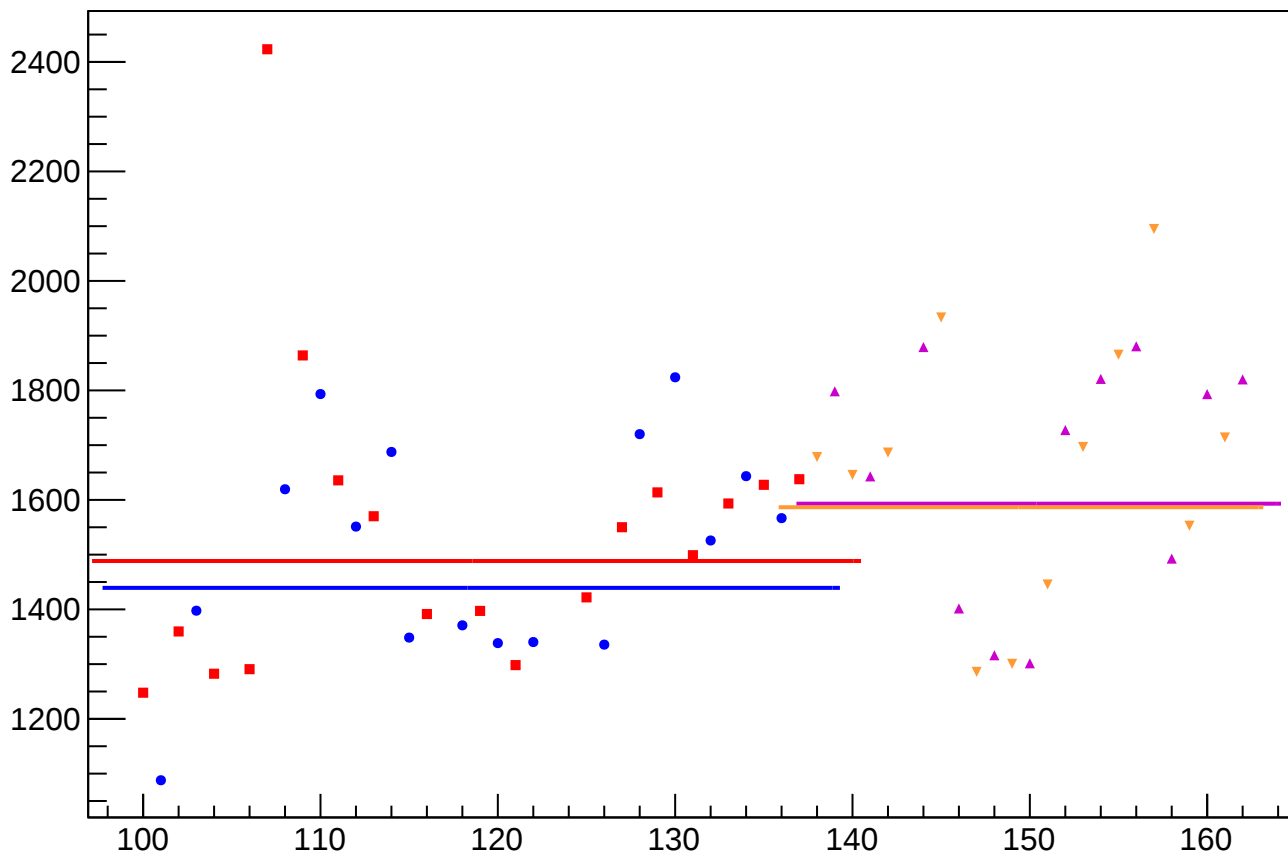
Right: 2566.079 $\pm$ 400.174  $\chi^2/\text{NDF}: 30.0/33$

In: 2104.504 $\pm$ 379.577  $\chi^2/\text{NDF}: 23.2/27$

Out: 2179.052 $\pm$ 388.984  $\chi^2/\text{NDF}: 31.9/29$

All: 2140.866 $\pm$ 271.666  $\chi^2/\text{NDF}: 55.1/57$

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



Right In: 1439.332 $\pm$ 0.398  $\chi^2/\text{NDF}$ : 277860.8/15

Left Out: 1586.606 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 378103.1/11

Right Out: 1488.384 $\pm$ 0.402  $\chi^2/\text{NDF}$ : 256324.7/17

Left In: 1593.073 $\pm$ 0.363  $\chi^2/\text{NDF}$ : 374035.8/11

Left: 1589.957 $\pm$ 0.262  $\chi^2/\text{NDF}$ : 752291.4/23

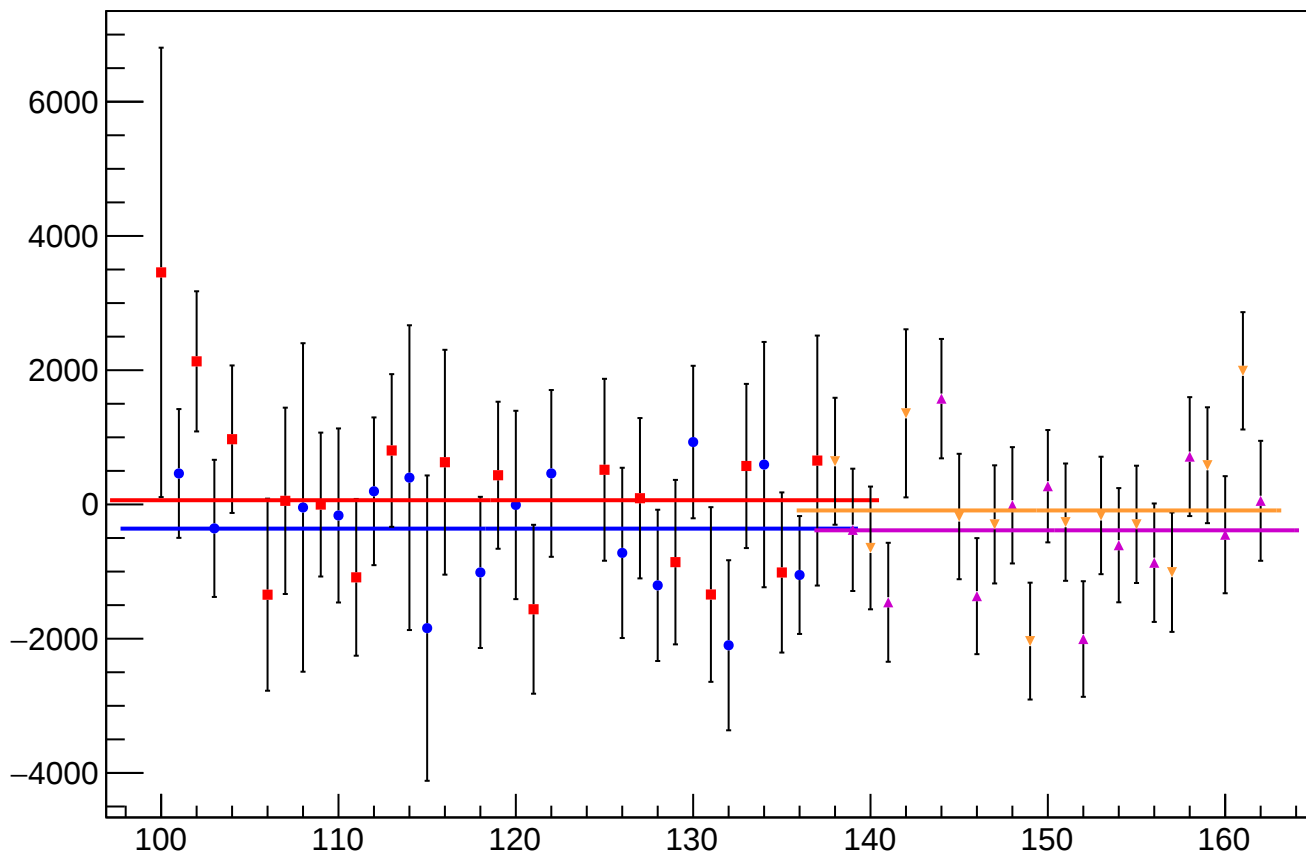
Right: 1463.597 $\pm$ 0.283  $\chi^2/\text{NDF}$ : 541697.1/33

In: 1523.176 $\pm$ 0.268  $\chi^2/\text{NDF}$ : 733247.1/27

Out: 1540.697 $\pm$ 0.275  $\chi^2/\text{NDF}$ : 666172.8/29

All: 1531.722 $\pm$ 0.192  $\chi^2/\text{NDF}$ : 1401498.4/57

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



Right In:  $-360.203 \pm 310.577$   $\chi^2/\text{NDF}$ : 7.1/15

Left Out:  $-89.347 \pm 262.164$   $\chi^2/\text{NDF}$ : 14.8/11

Right Out:  $62.959 \pm 298.767$   $\chi^2/\text{NDF}$ : 12.8/17

Left In:  $-385.388 \pm 252.413$   $\chi^2/\text{NDF}$ : 14.1/11

Left:  $-242.975 \pm 181.832$   $\chi^2/\text{NDF}$ : 29.6/23

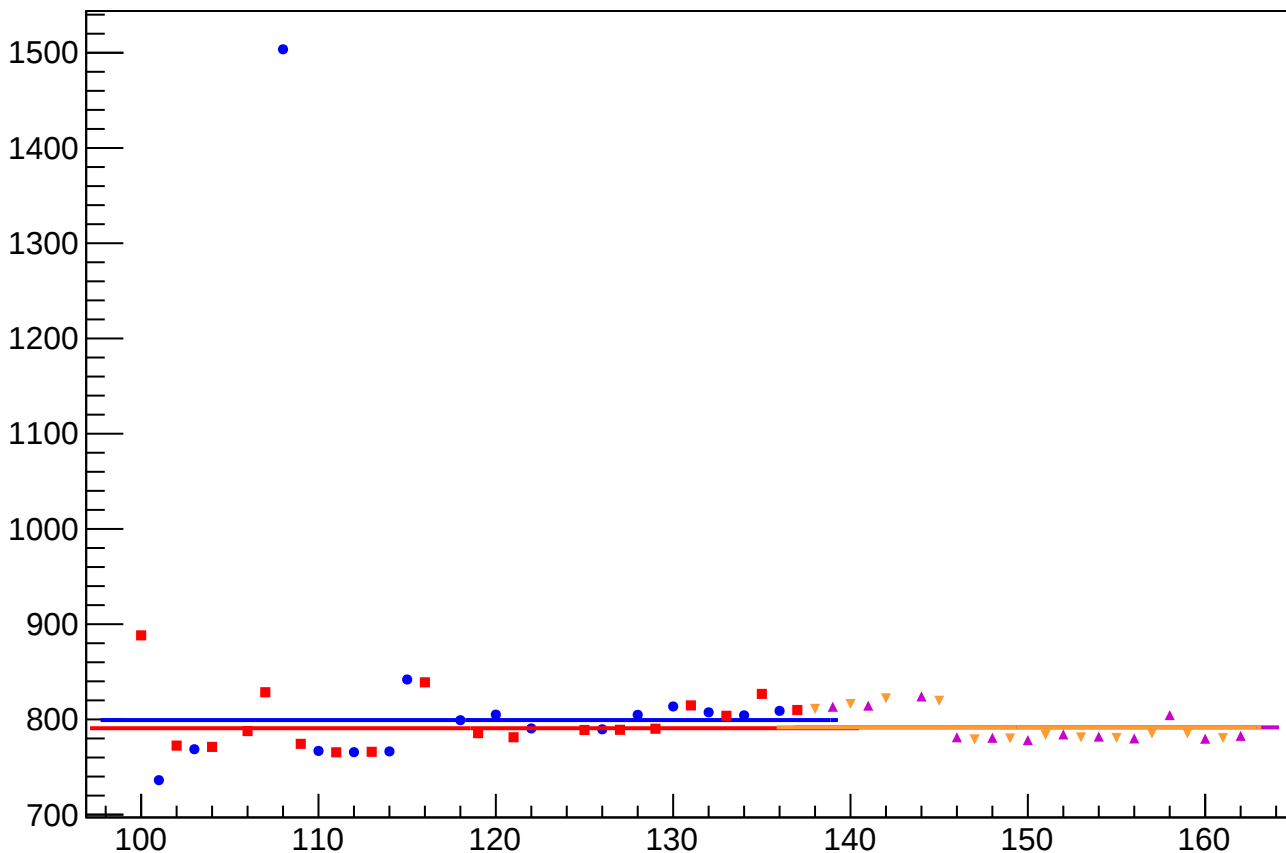
Right:  $-140.423 \pm 215.314$   $\chi^2/\text{NDF}$ : 20.9/33

In:  $-375.370 \pm 195.880$   $\chi^2/\text{NDF}$ : 21.2/27

Out:  $-23.090 \pm 197.056$   $\chi^2/\text{NDF}$ : 27.8/29

All:  $-200.284 \pm 138.922$   $\chi^2/\text{NDF}$ : 50.6/57

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



Right In: 799.322+/-0.220  $\chi^2/\text{NDF}$ : 181303.9/15

Left Out: 791.707+/-0.185  $\chi^2/\text{NDF}$ : 7346.7/11

Right Out: 790.760+/-0.211  $\chi^2/\text{NDF}$ : 11555.4/17

Left In: 791.668+/-0.178  $\chi^2/\text{NDF}$ : 7991.1/11

Left: 791.687+/-0.129  $\chi^2/\text{NDF}$ : 15337.8/23

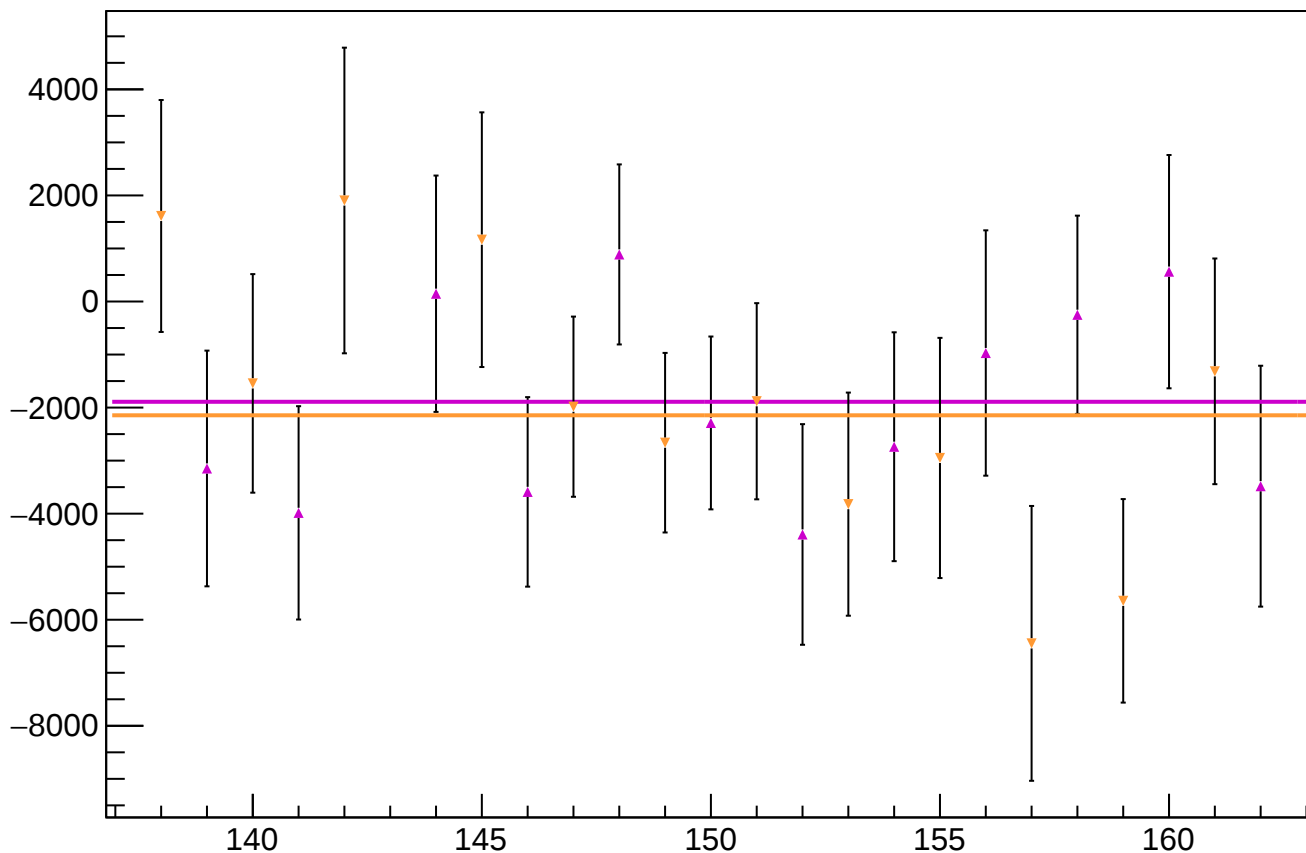
Right: 794.875+/-0.152  $\chi^2/\text{NDF}$ : 193648.9/33

In: 794.712+/-0.139  $\chi^2/\text{NDF}$ : 190026.6/27

Out: 791.295+/-0.139  $\chi^2/\text{NDF}$ : 18913.4/29

All: 793.014+/-0.098  $\chi^2/\text{NDF}$ : 209242.6/57

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



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

Left Out: -2145.385+/-598.789  $\chi^2/\text{NDF}$ :14.0/11

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

Left In: -1890.714+/-576.586  $\chi^2/\text{NDF}$ :10.1/11

Left: -2013.241+/-415.335  $\chi^2/\text{NDF}$ : 24.3/23

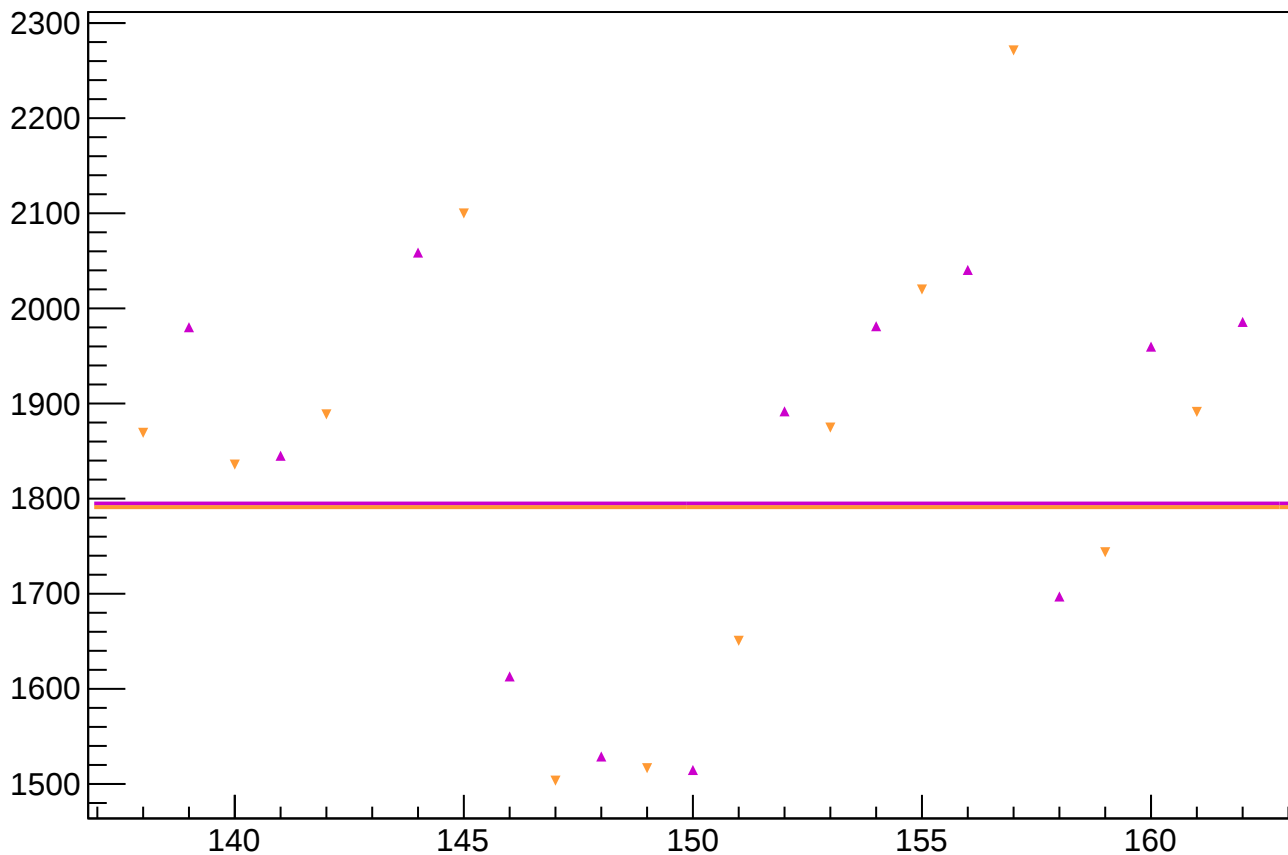
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1890.714+/-576.586  $\chi^2/\text{NDF}$ :10.1/11

Out: -2145.385+/-598.789  $\chi^2/\text{NDF}$ :14.0/11

All: -2013.241+/-415.335  $\chi^2/\text{NDF}$ : 24.3/23

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



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

Left Out: 1791.038+/-0.423  $\chi^2/\text{NDF}$ :258220.5/11

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

Left In: 1794.810+/-0.408  $\chi^2/\text{NDF}$ :244818.8/11

Left: 1792.995+/-0.294  $\chi^2/\text{NDF}$ : 503080.5/23

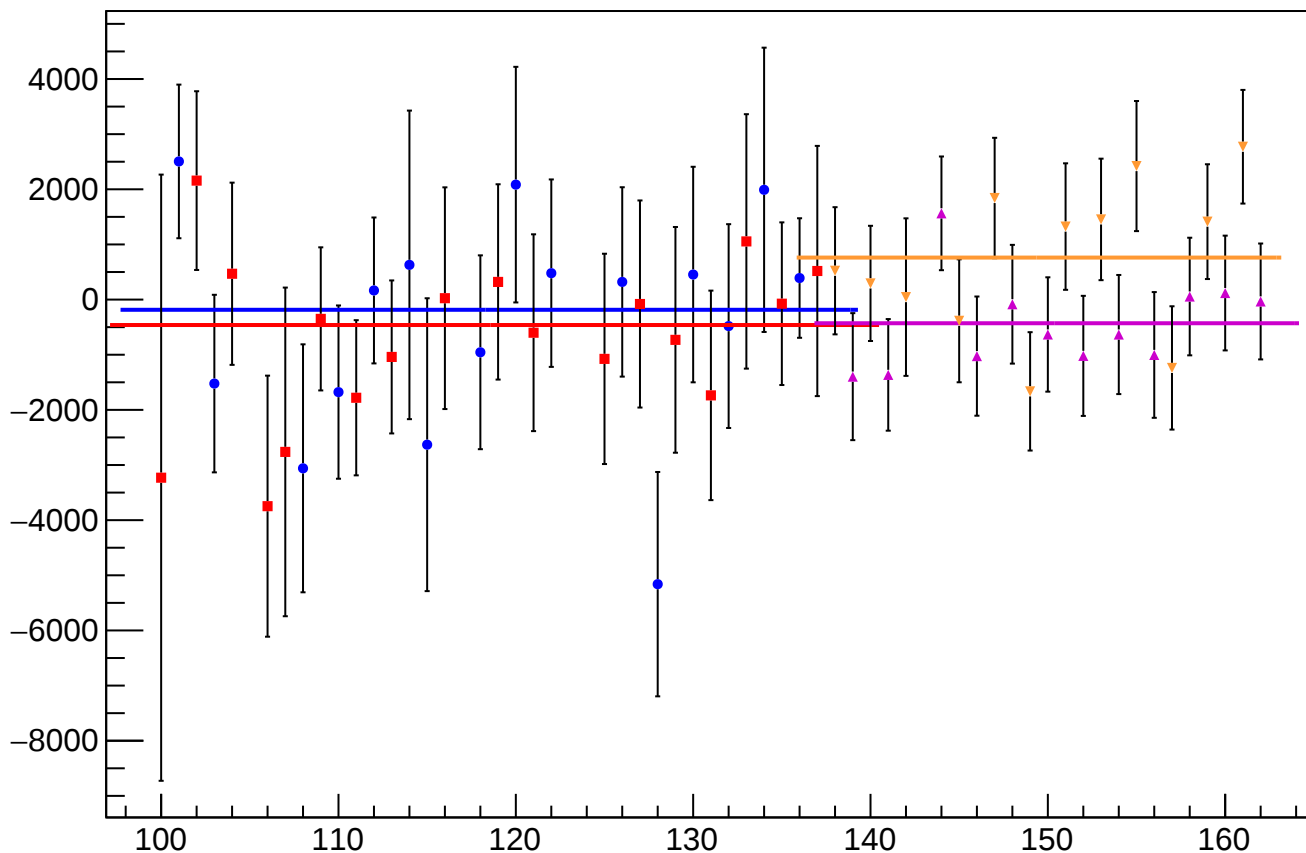
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1794.810+/-0.408  $\chi^2/\text{NDF}$ :244818.8/11

Out: 1791.038+/-0.423  $\chi^2/\text{NDF}$ :258220.5/11

All: 1792.995+/-0.294  $\chi^2/\text{NDF}$ : 503080.5/23

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



Right In:  $-185.054 \pm 431.495$   $\chi^2/\text{NDF}: 16.6/15$

Left Out:  $761.817 \pm 322.116$   $\chi^2/\text{NDF}: 17.7/11$

Right Out:  $-461.253 \pm 426.921$   $\chi^2/\text{NDF}: 8.3/17$

Left In:  $-428.958 \pm 308.635$   $\chi^2/\text{NDF}: 7.0/11$

Left:  $140.991 \pm 222.852$   $\chi^2/\text{NDF}: 31.7/23$

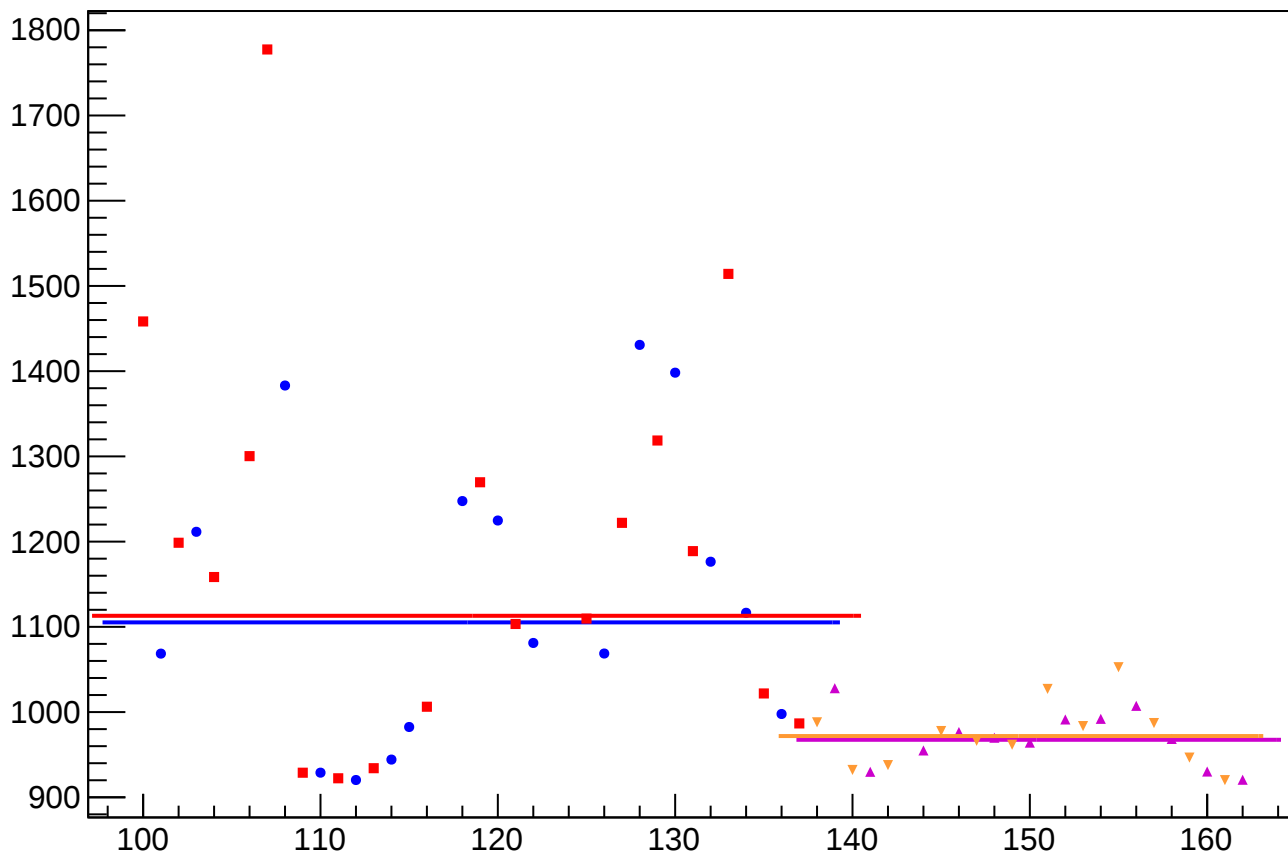
Right:  $-324.625 \pm 303.483$   $\chi^2/\text{NDF}: 25.2/33$

In:  $-346.408 \pm 251.030$   $\chi^2/\text{NDF}: 23.8/27$

Out:  $318.127 \pm 257.135$   $\chi^2/\text{NDF}: 31.2/29$

All:  $-22.123 \pm 179.625$   $\chi^2/\text{NDF}: 58.4/57$

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



Right In: 1105.236+/-0.305  $\chi^2/\text{NDF}$ : 255366.2/15

Left Out: 971.872+/-0.228  $\chi^2/\text{NDF}$ : 25556.0/11

Right Out: 1112.974+/-0.302  $\chi^2/\text{NDF}$ : 362995.4/17

Left In: 967.480+/-0.218  $\chi^2/\text{NDF}$ : 19723.2/11

Left: 969.583+/-0.158  $\chi^2/\text{NDF}$ : 45473.0/23

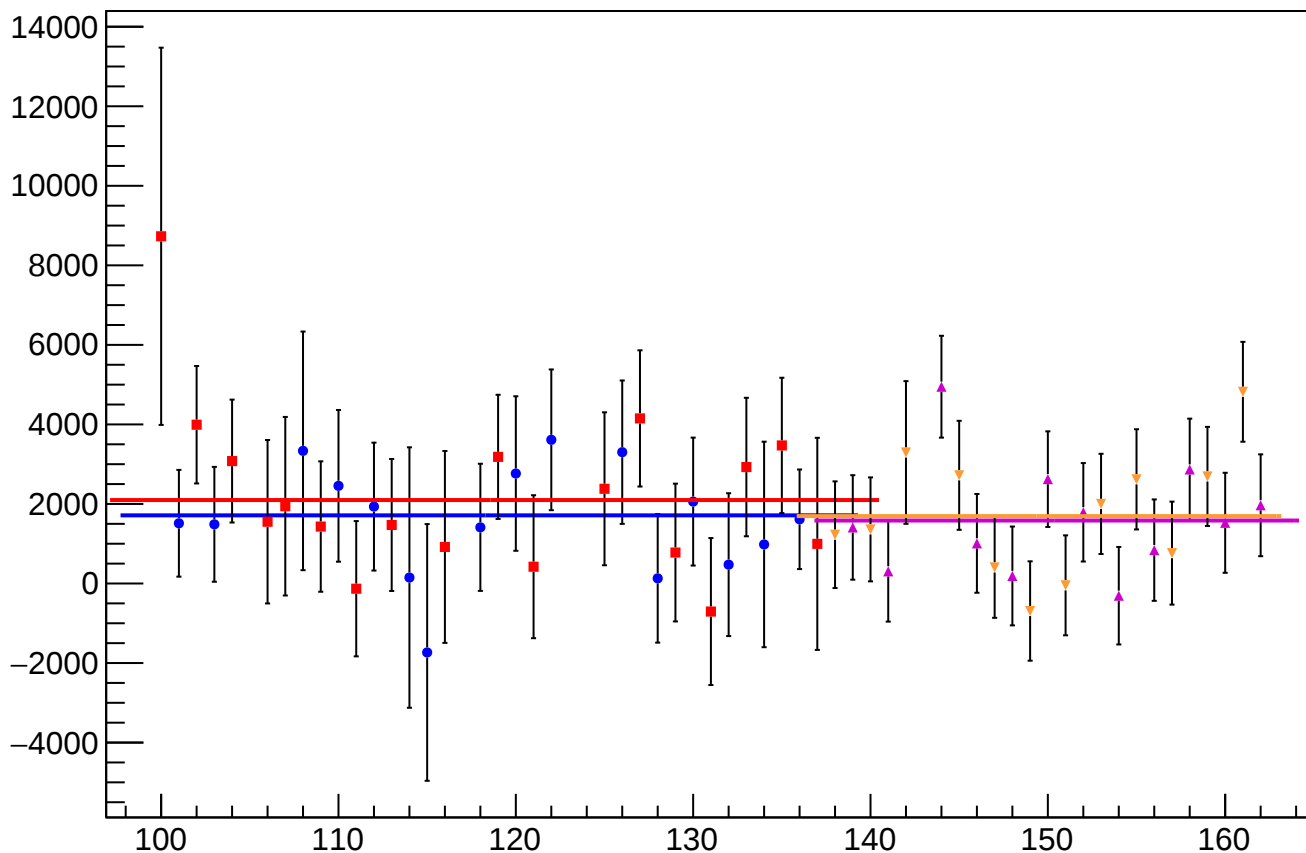
Right: 1109.146+/-0.215  $\chi^2/\text{NDF}$ : 618686.6/33

In: 1014.104+/-0.178  $\chi^2/\text{NDF}$ : 409940.6/27

Out: 1023.059+/-0.182  $\chi^2/\text{NDF}$ : 527770.1/29

All: 1018.474+/-0.127  $\chi^2/\text{NDF}$ : 938952.7/57

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



Right In: 1713.558 $\pm$ 440.802  $\chi^2/\text{NDF}$ : 5.7/15

Left Out: 1694.498 $\pm$ 377.543  $\chi^2/\text{NDF}$ : 16.1/11

Right Out: 2098.291 $\pm$ 431.016  $\chi^2/\text{NDF}$ : 13.1/17

Left In: 1583.420 $\pm$ 362.931  $\chi^2/\text{NDF}$ : 14.0/11

Left: 1636.768 $\pm$ 261.644  $\chi^2/\text{NDF}$ : 30.2/23

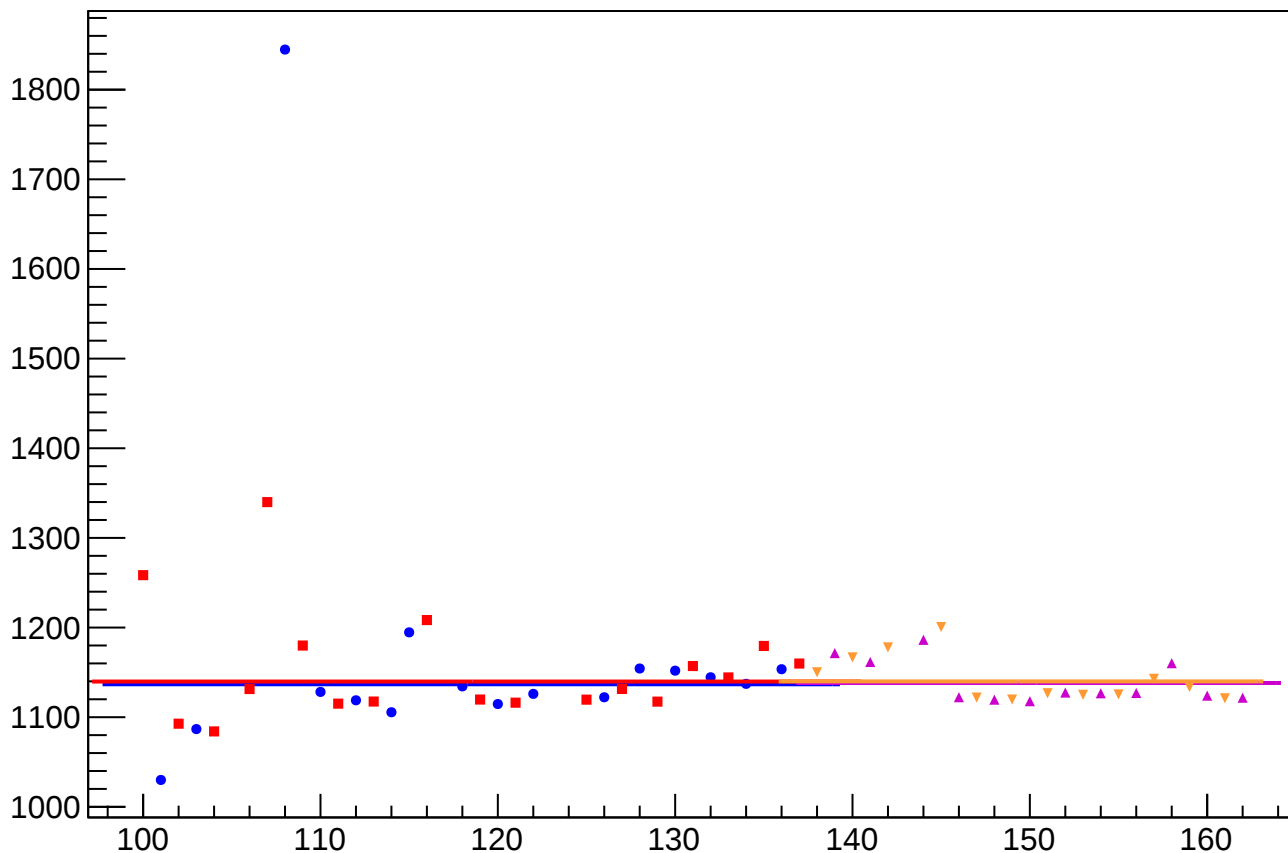
Right: 1910.242 $\pm$ 308.176  $\chi^2/\text{NDF}$ : 19.2/33

In: 1635.997 $\pm$ 280.183  $\chi^2/\text{NDF}$ : 19.8/27

Out: 1869.807 $\pm$ 283.998  $\chi^2/\text{NDF}$ : 29.7/29

All: 1751.321 $\pm$ 199.454  $\chi^2/\text{NDF}$ : 49.8/57

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



Right In: 1136.737 $\pm$ 0.312  $\chi^2/\text{NDF}$ : 128798.3/15

Left Out: 1139.946 $\pm$ 0.267  $\chi^2/\text{NDF}$ : 7975.1/11

Right Out: 1139.790 $\pm$ 0.305  $\chi^2/\text{NDF}$ : 28066.5/17

Left In: 1138.180 $\pm$ 0.257  $\chi^2/\text{NDF}$ : 7802.2/11

Left: 1139.029 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 15800.1/23

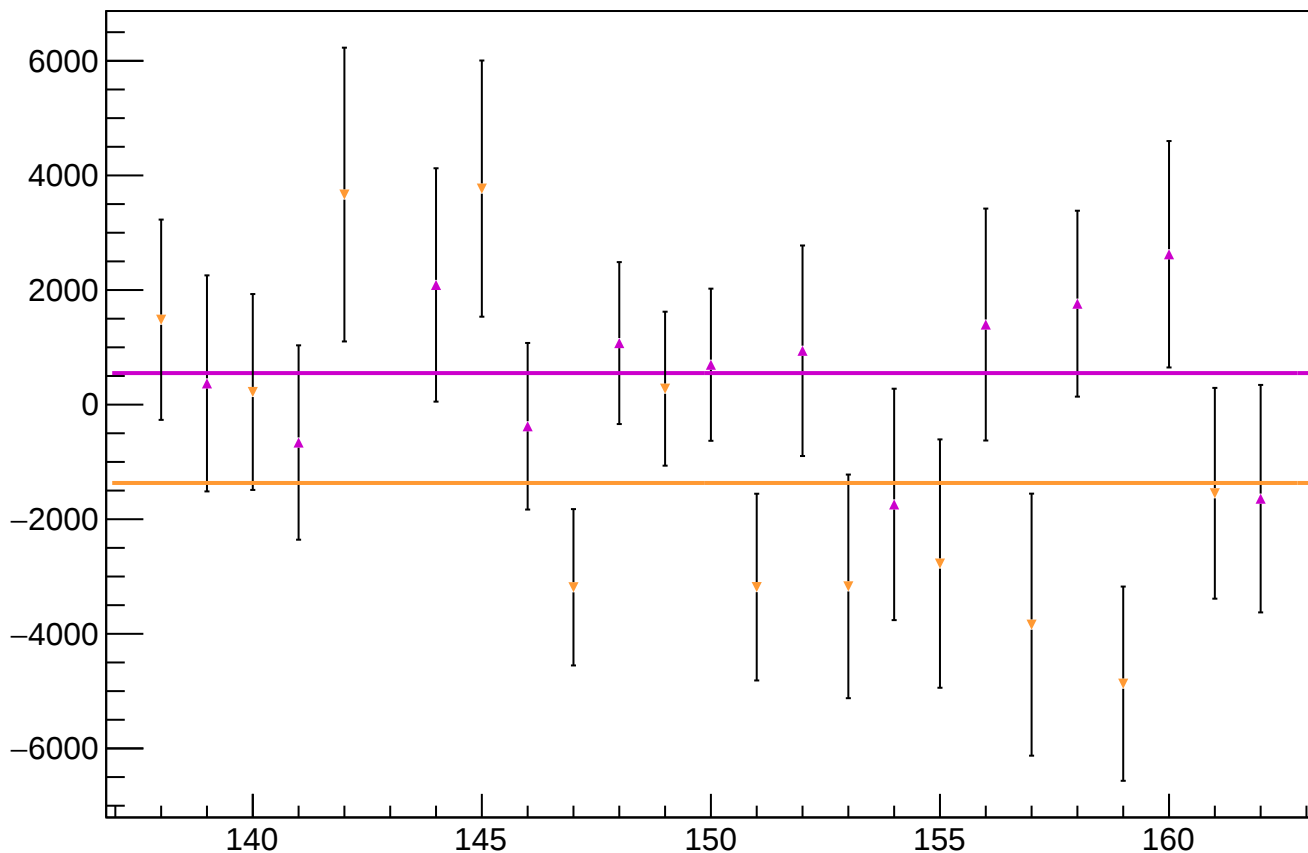
Right: 1138.298 $\pm$ 0.218  $\chi^2/\text{NDF}$ : 156913.9/33

In: 1137.597 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 136613.3/27

Out: 1139.879 $\pm$ 0.201  $\chi^2/\text{NDF}$ : 36041.8/29

All: 1138.723 $\pm$ 0.141  $\chi^2/\text{NDF}$ : 172720.5/57

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



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

Left Out: -1367.210+/-512.983  $\chi^2/\text{NDF}$ :23.9/11

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

Left In: 550.590+/-494.660  $\chi^2/\text{NDF}$ :6.0/11

Left: -373.448+/-356.079  $\chi^2/\text{NDF}$ : 37.2/23

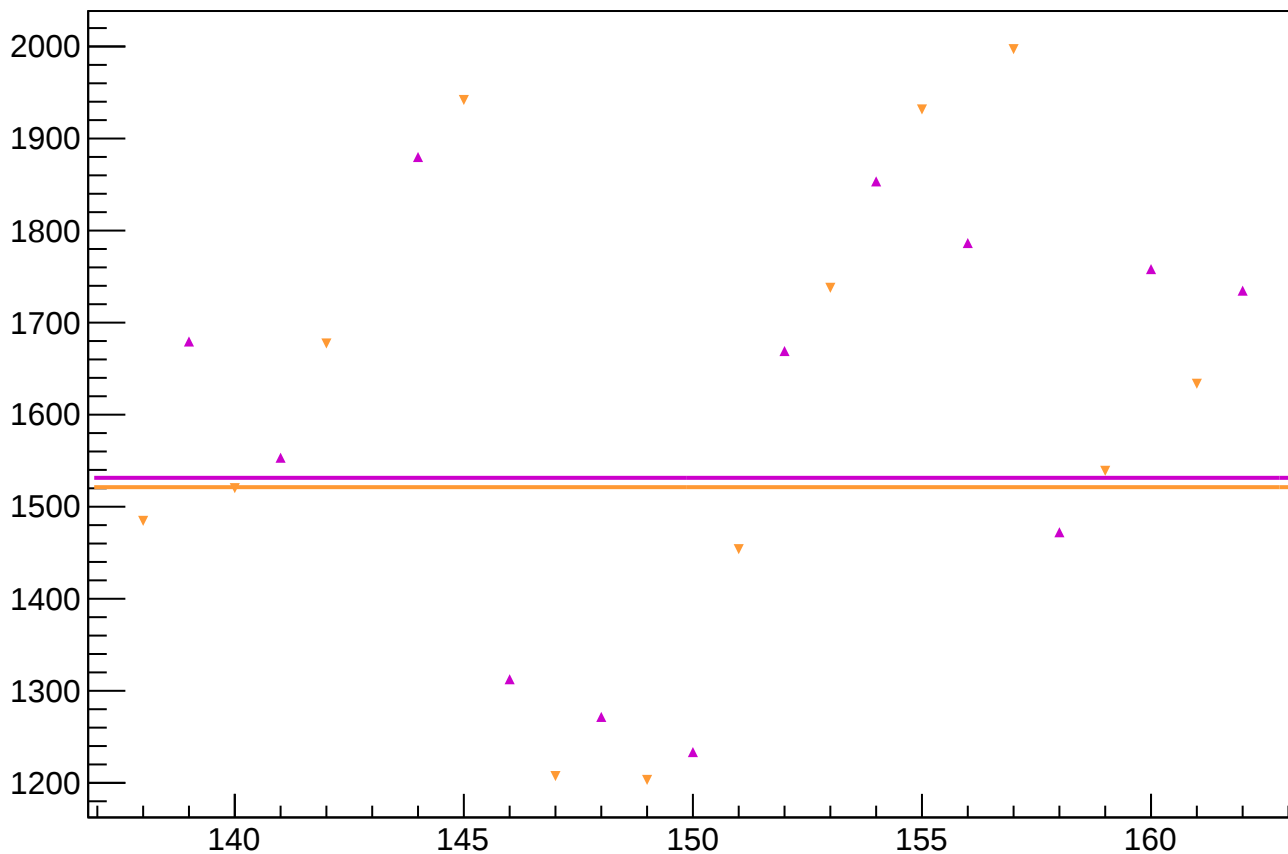
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 550.590+/-494.660  $\chi^2/\text{NDF}$ :6.0/11

Out: -1367.210+/-512.983  $\chi^2/\text{NDF}$ :23.9/11

All: -373.448+/-356.079  $\chi^2/\text{NDF}$ : 37.2/23

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



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

Left Out: 1521.241+/-0.363  $\chi^2/\text{NDF}$ :491074.1/11

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

Left In: 1531.389+/-0.350  $\chi^2/\text{NDF}$ :428740.1/11

Left: 1526.499+/-0.252  $\chi^2/\text{NDF}$ : 920219.7/23

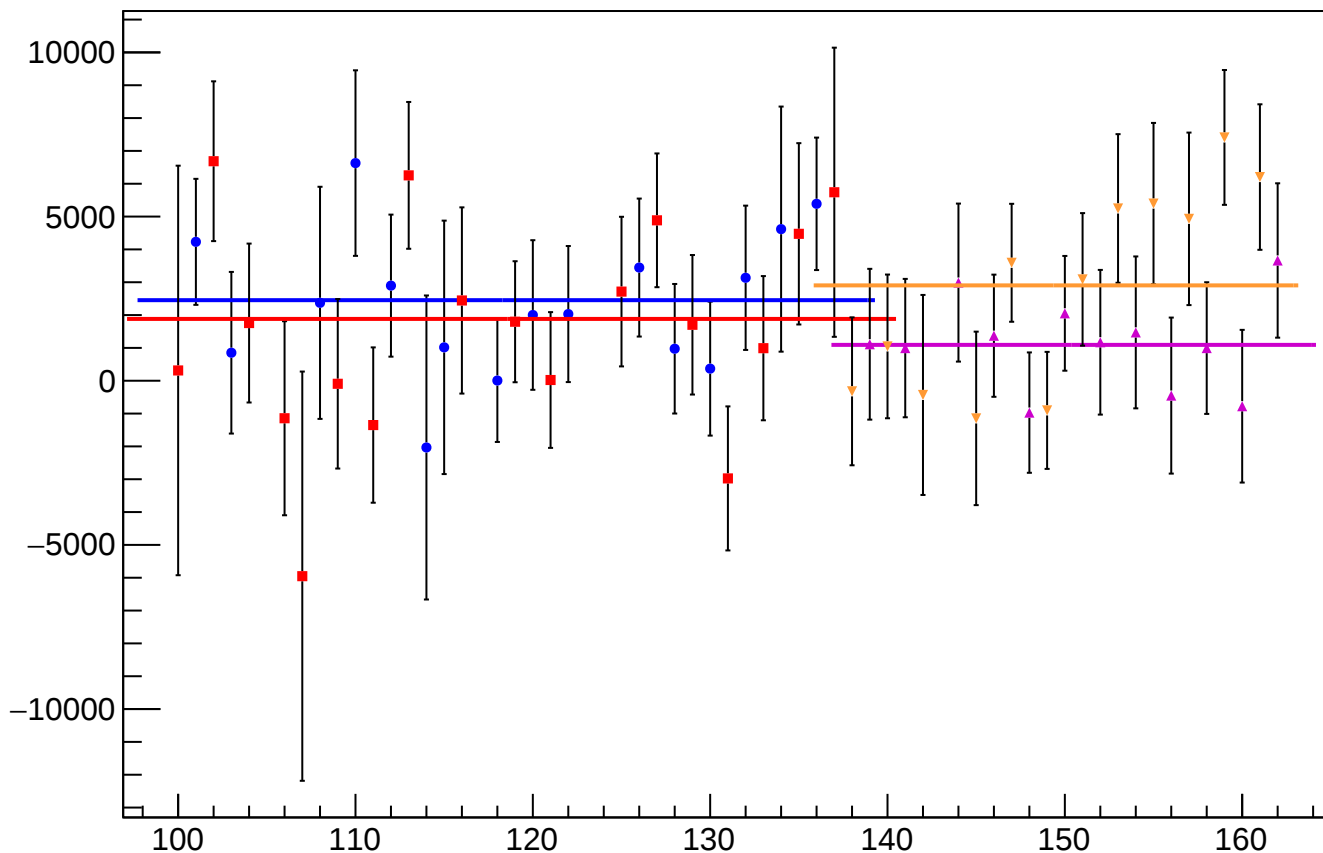
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1531.389+/-0.350  $\chi^2/\text{NDF}$ :428740.1/11

Out: 1521.241+/-0.363  $\chi^2/\text{NDF}$ :491074.1/11

All: 1526.499+/-0.252  $\chi^2/\text{NDF}$ : 920219.7/23

# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2453.670 $\pm$ 584.307  $\chi^2$ /NDF: 10.8/15

Left Out: 2904.229 $\pm$ 635.788  $\chi^2$ /NDF:20.8/11

Right Out: 1882.755 $\pm$ 583.188  $\chi^2$ /NDF: 22.8/17

Left In: 1092.065 $\pm$ 610.159  $\chi^2$ /NDF:4.5/11

Left: 1960.888 $\pm$ 440.229  $\chi^2$ /NDF: 29.5/23

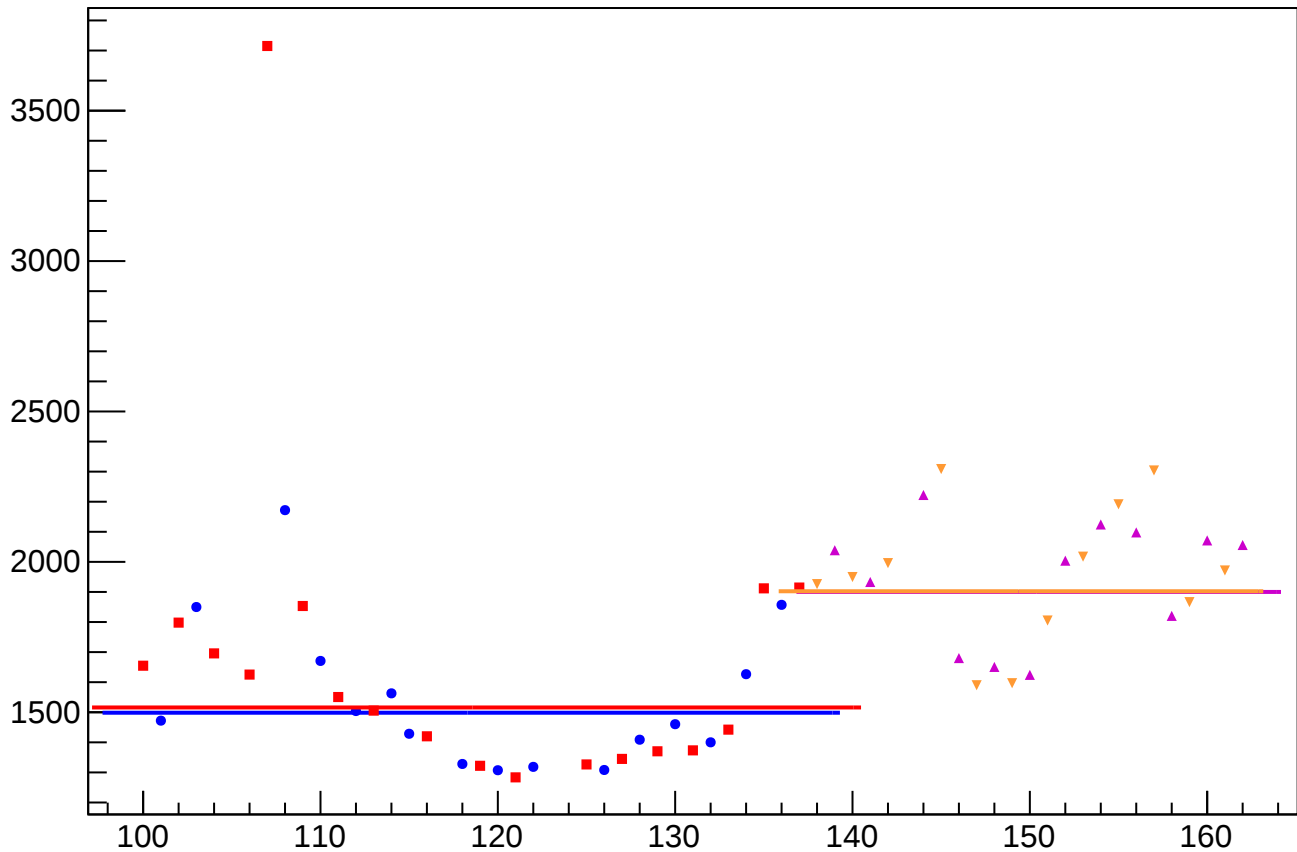
Right: 2167.665 $\pm$ 412.771  $\chi^2$ /NDF: 34.0/33

In: 1802.324 $\pm$ 422.011  $\chi^2$ /NDF:17.9/27

Out: 2349.497 $\pm$ 429.771  $\chi^2$ /NDF:44.9/29

All: 2070.926 $\pm$ 301.113  $\chi^2$ /NDF: 63.6/57

# asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1498.485 $\pm$ 0.413  $\chi^2$ /NDF: 258807.5/15

Left Out: 1902.278 $\pm$ 0.450  $\chi^2$ /NDF: 256525.8/11

Right Out: 1515.949 $\pm$ 0.412  $\chi^2$ /NDF: 480541.4/17

Left In: 1900.024 $\pm$ 0.431  $\chi^2$ /NDF: 218308.7/11

Left: 1901.105 $\pm$ 0.311  $\chi^2$ /NDF: 474847.6/23

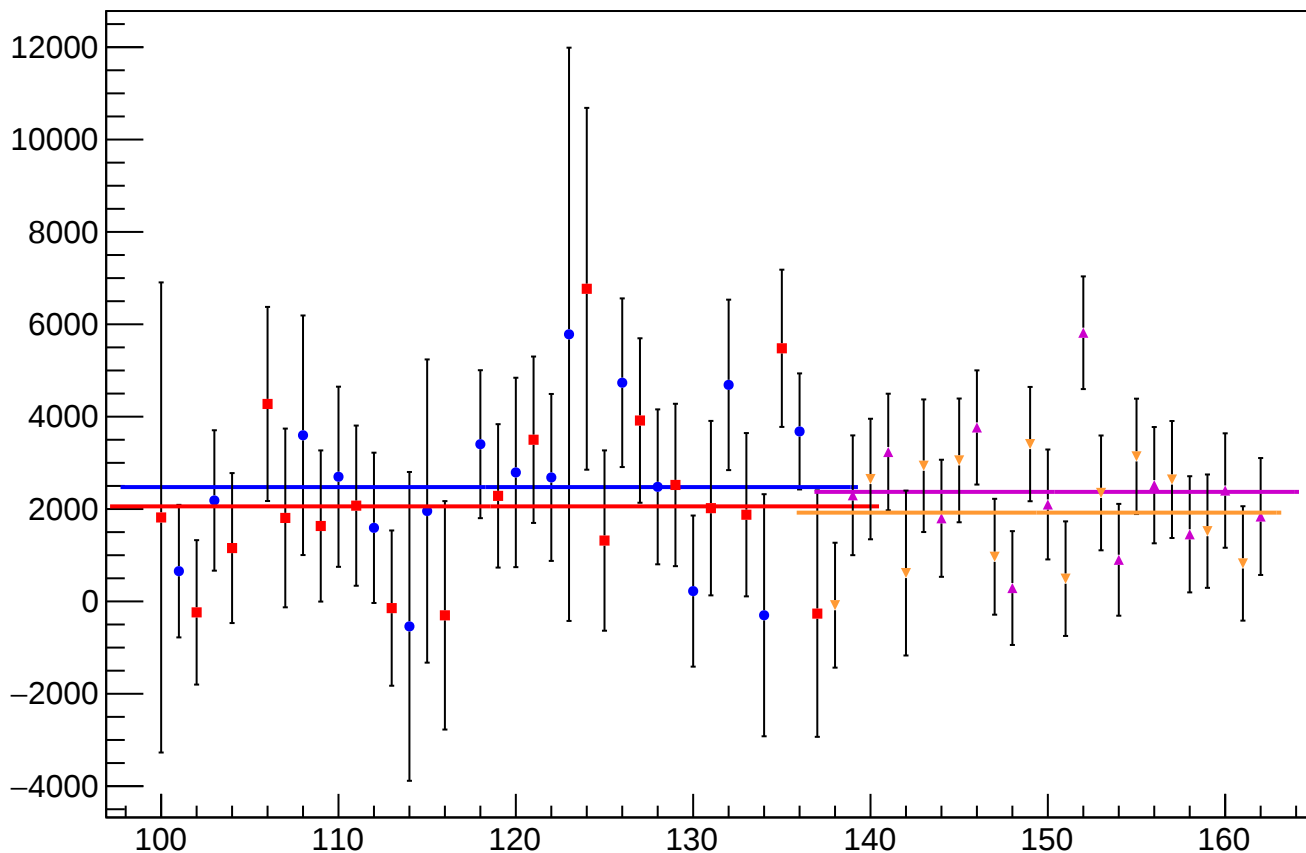
Right: 1507.233 $\pm$ 0.292  $\chi^2$ /NDF: 740243.9/33

In: 1690.568 $\pm$ 0.298  $\chi^2$ /NDF: 928936.4/27

Out: 1692.474 $\pm$ 0.304  $\chi^2$ /NDF: 1138097.2/29

All: 1691.503 $\pm$ 0.213  $\chi^2$ /NDF: 2067053.6/57

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



Right In: 2475.300+/-449.379  $\chi^2/\text{NDF}$ : 10.5/16

Left Out: 1921.921+/-361.406  $\chi^2/\text{NDF}$ : 9.9/12

Right Out: 2057.800+/-433.574  $\chi^2/\text{NDF}$ : 14.5/18

Left In: 2371.398+/-359.053  $\chi^2/\text{NDF}$ : 15.0/11

Left: 2148.127+/-254.717  $\chi^2/\text{NDF}$ : 25.7/24

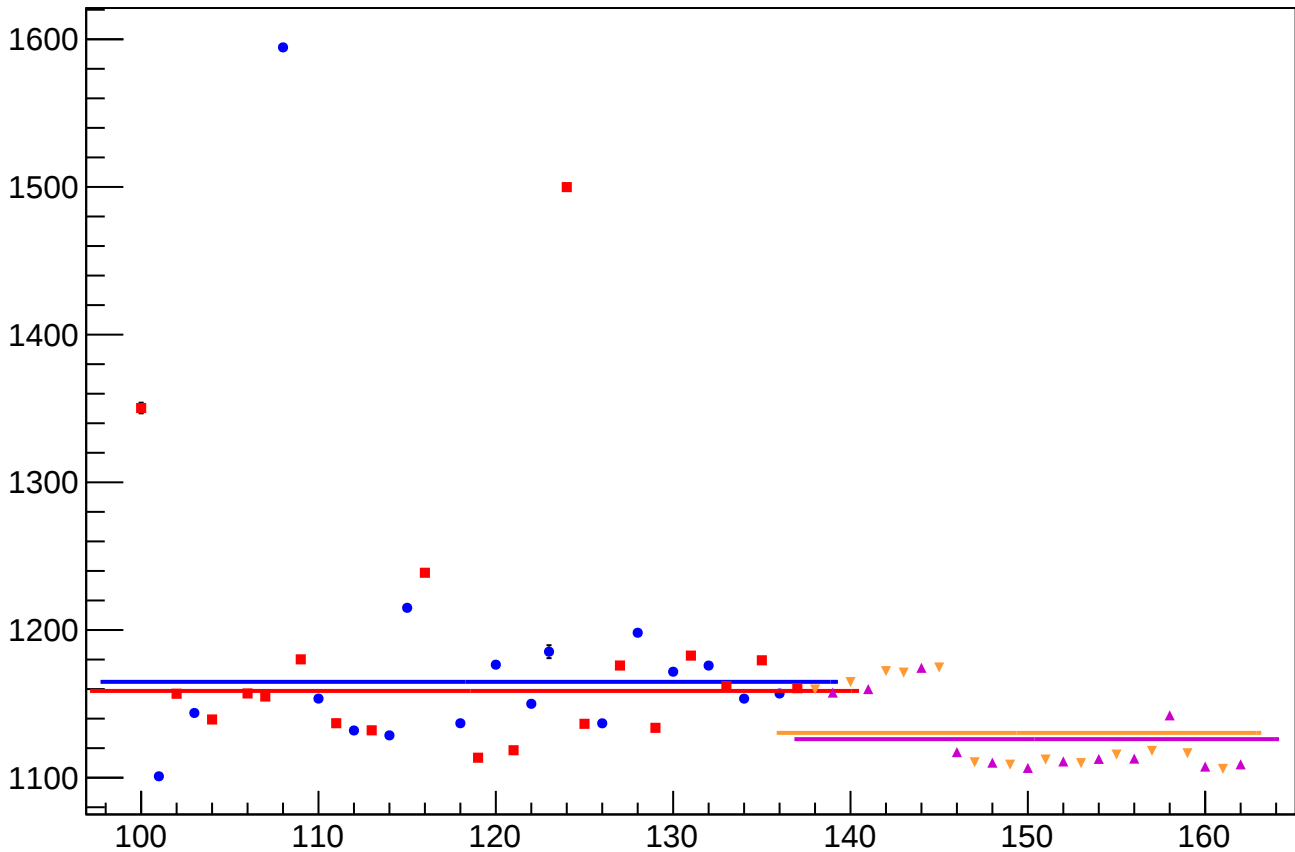
Right: 2259.079+/-312.021  $\chi^2/\text{NDF}$ : 25.5/35

In: 2411.883+/-280.510  $\chi^2/\text{NDF}$ : 25.6/28

Out: 1977.626+/-277.610  $\chi^2/\text{NDF}$ : 24.5/31

All: 2192.498+/-197.317  $\chi^2/\text{NDF}$ : 51.3/60

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



Right In: 1164.904 $\pm$ 0.318  $\chi^2$ /NDF: 63136.4/16

Left Out: 1130.353 $\pm$ 0.256  $\chi^2$ /NDF:10799.6/12

Right Out: 1158.758 $\pm$ 0.307  $\chi^2$ /NDF: 25723.5/18

Left In: 1126.106 $\pm$ 0.254  $\chi^2$ /NDF:8409.7/11

Left: 1128.215 $\pm$ 0.180  $\chi^2$ /NDF: 19348.3/24

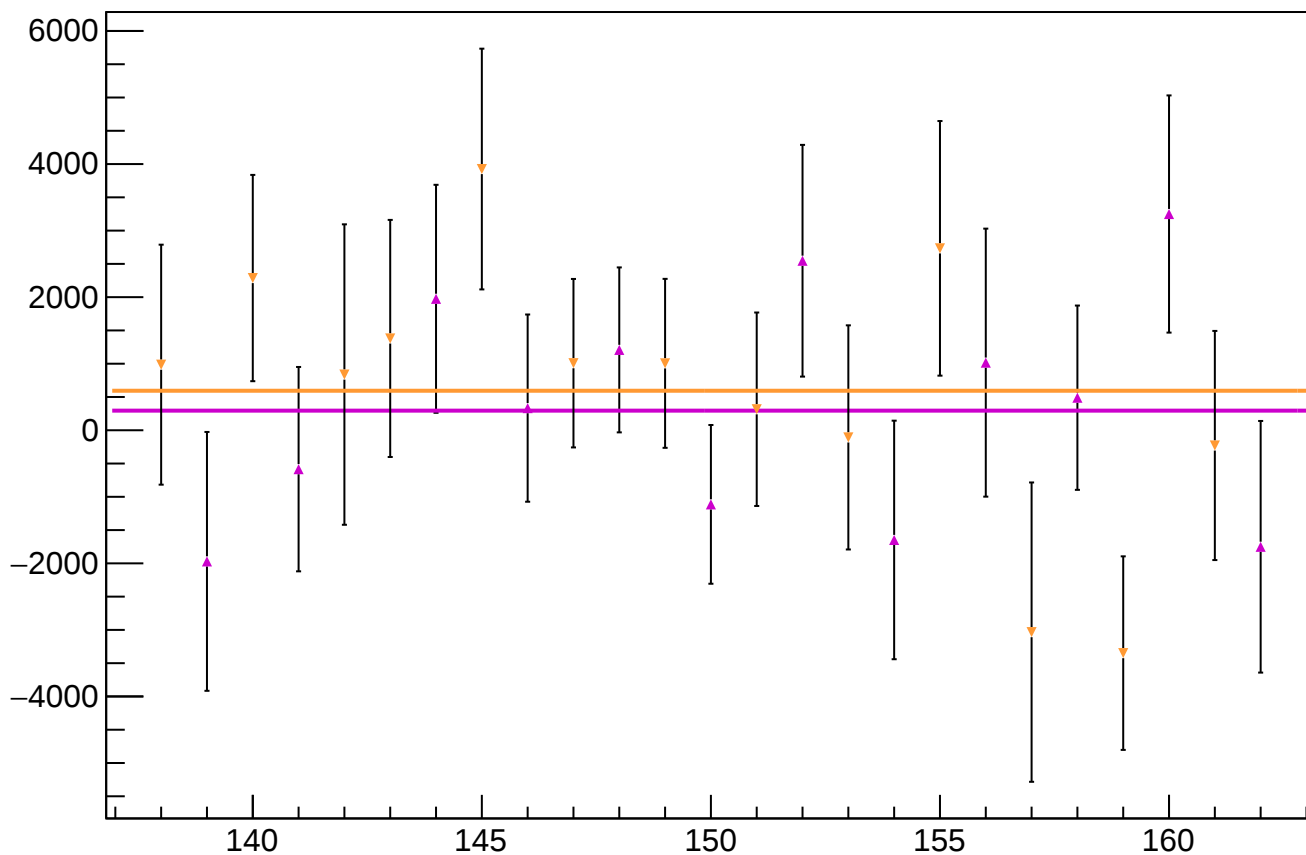
Right: 1161.721 $\pm$ 0.221  $\chi^2$ /NDF: 89053.7/35

In: 1141.224 $\pm$ 0.198  $\chi^2$ /NDF:80645.6/28

Out: 1141.998 $\pm$ 0.196  $\chi^2$ /NDF:41588.1/31

All: 1141.615 $\pm$ 0.140  $\chi^2$ /NDF: 122241.3/60

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



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

Left Out: 593.743+/-452.093  $\chi^2/\text{NDF}$ :16.7/12

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

Left In: 294.763+/-452.091  $\chi^2/\text{NDF}$ :11.5/11

Left: 444.252+/-319.677  $\chi^2/\text{NDF}$ : 28.4/24

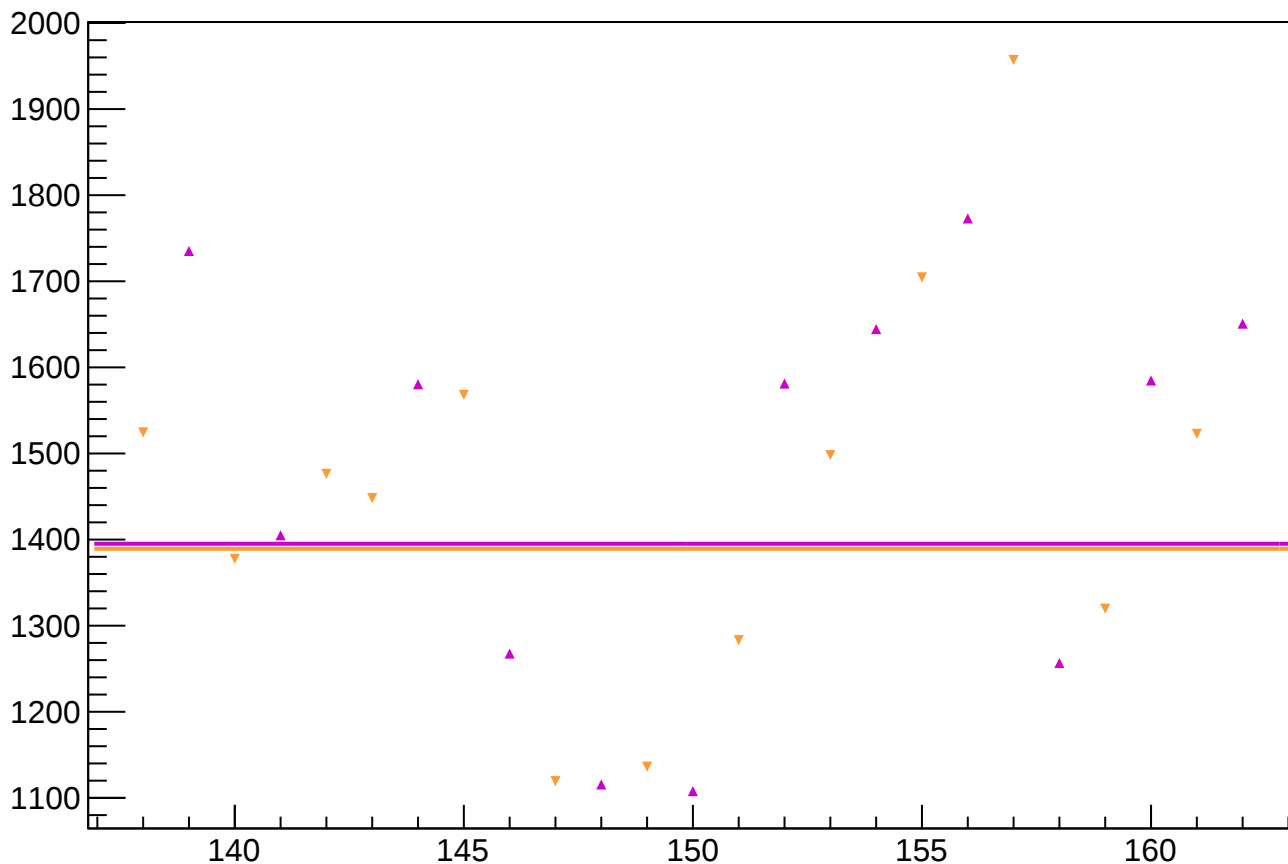
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 294.763+/-452.091  $\chi^2/\text{NDF}$ :11.5/11

Out: 593.743+/-452.093  $\chi^2/\text{NDF}$ :16.7/12

All: 444.252+/-319.677  $\chi^2/\text{NDF}$ : 28.4/24

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



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

Left Out: 1389.346+/-0.320  $\chi^2/\text{NDF}$ :423772.5/12

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

Left In: 1395.174+/-0.320  $\chi^2/\text{NDF}$ :530009.2/11

Left: 1392.260+/-0.226  $\chi^2/\text{NDF}$ : 953947.8/24

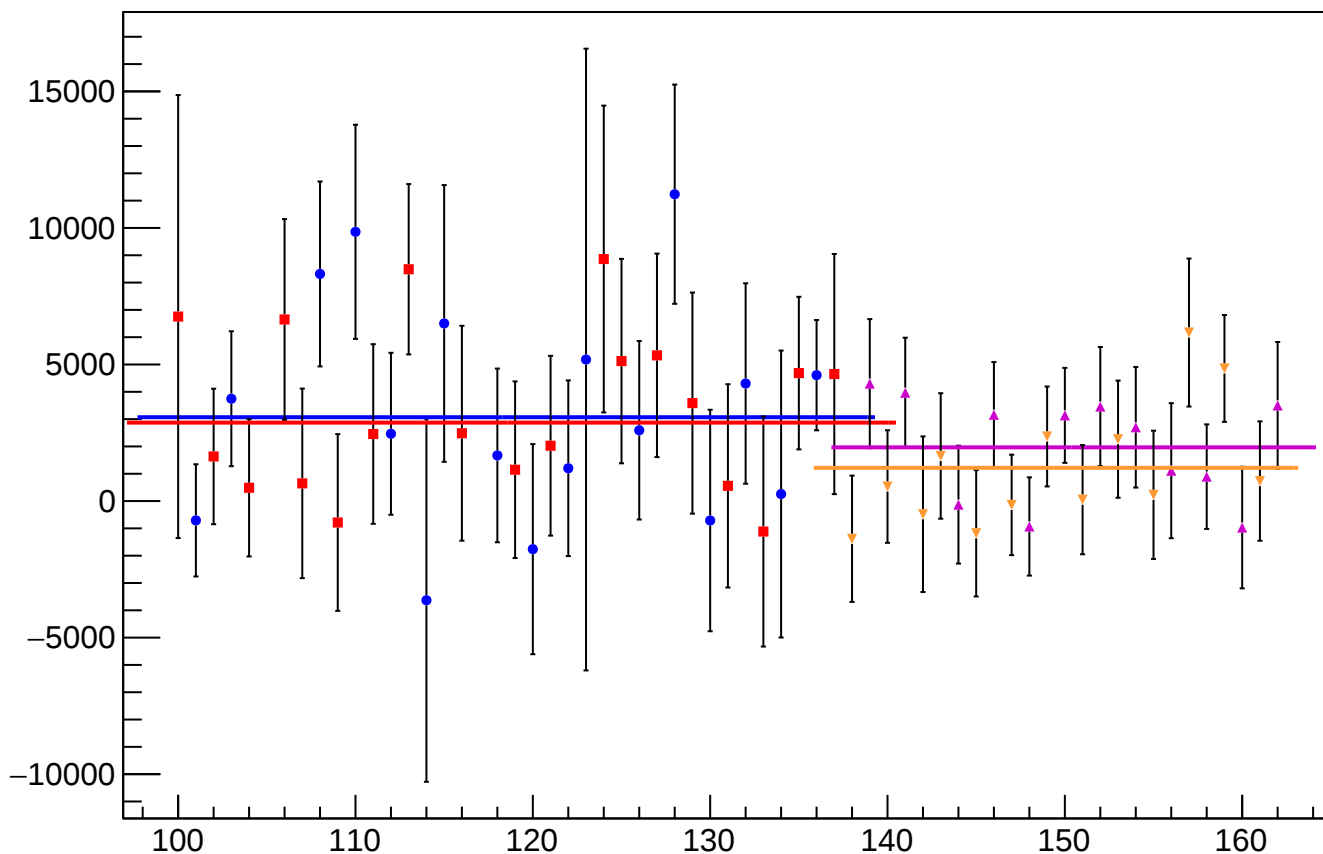
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1395.174+/-0.320  $\chi^2/\text{NDF}$ :530009.2/11

Out: 1389.346+/-0.320  $\chi^2/\text{NDF}$ :423772.5/12

All: 1392.260+/-0.226  $\chi^2/\text{NDF}$ : 953947.8/24

# asym\_usr\_mean vs Slug, Sign Corrected



Right In: 3069.484 $\pm$ 797.741  $\chi^2$ /NDF: 18.5/16

Left Out: 1217.417 $\pm$ 600.614  $\chi^2$ /NDF: 11.4/12

Right Out: 2872.615 $\pm$ 795.352  $\chi^2$ /NDF: 11.6/18

Left In: 1966.105 $\pm$ 598.957  $\chi^2$ /NDF: 9.5/11

Left: 1592.795 $\pm$ 424.111  $\chi^2$ /NDF: 21.7/24

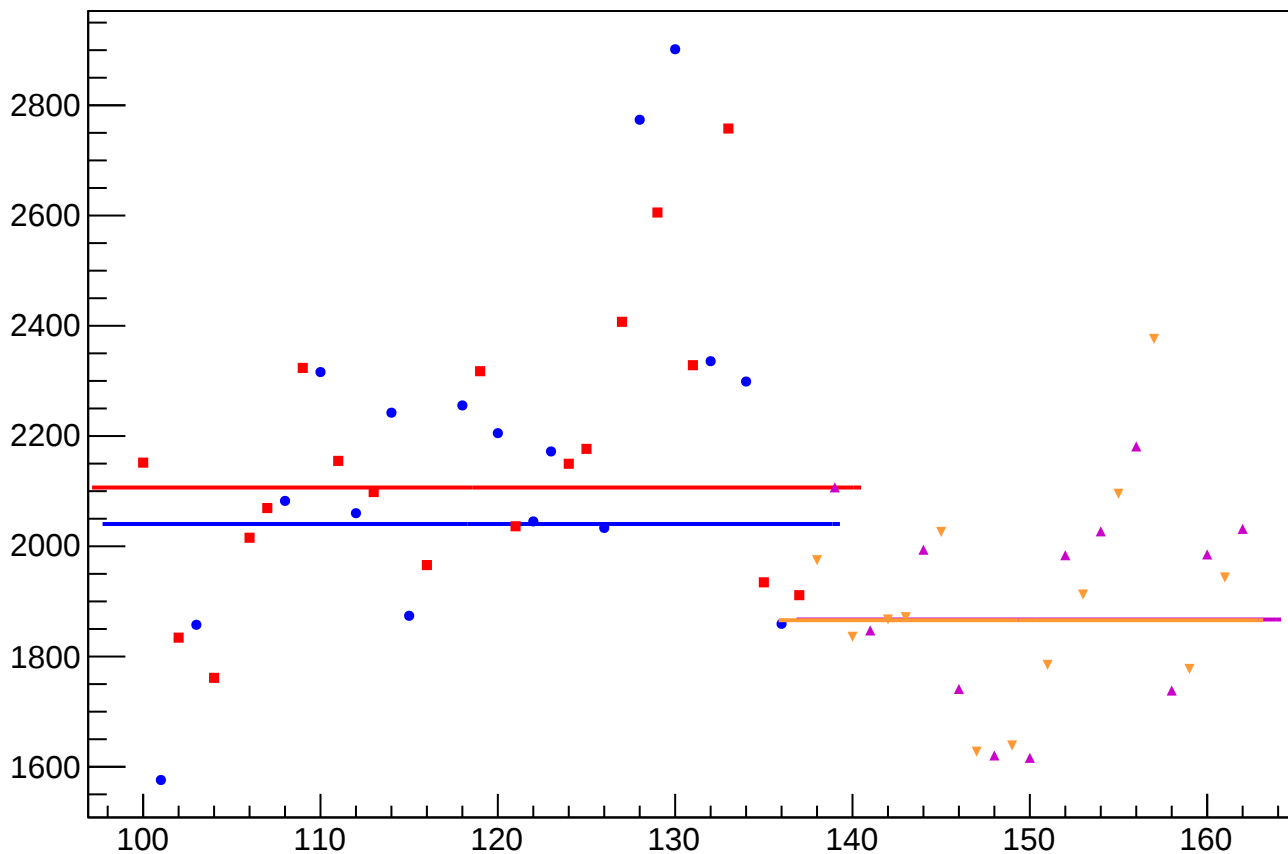
Right: 2970.754 $\pm$ 563.242  $\chi^2$ /NDF: 30.1/35

In: 2363.875 $\pm$ 478.978  $\chi^2$ /NDF: 29.3/28

Out: 1818.522 $\pm$ 479.302  $\chi^2$ /NDF: 25.7/31

All: 2091.383 $\pm$ 338.803  $\chi^2$ /NDF: 55.6/60

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 2040.433+/-0.564  $\chi^2/\text{NDF}$ : 331339.9/16

Left Out: 1865.903+/-0.425  $\chi^2/\text{NDF}$ :179820.4/12

Right Out: 2106.624+/-0.562  $\chi^2/\text{NDF}$ : 195414.9/18

Left In: 1867.195+/-0.424  $\chi^2/\text{NDF}$ :188554.5/11

Left: 1866.551+/-0.300  $\chi^2/\text{NDF}$ : 368379.6/24

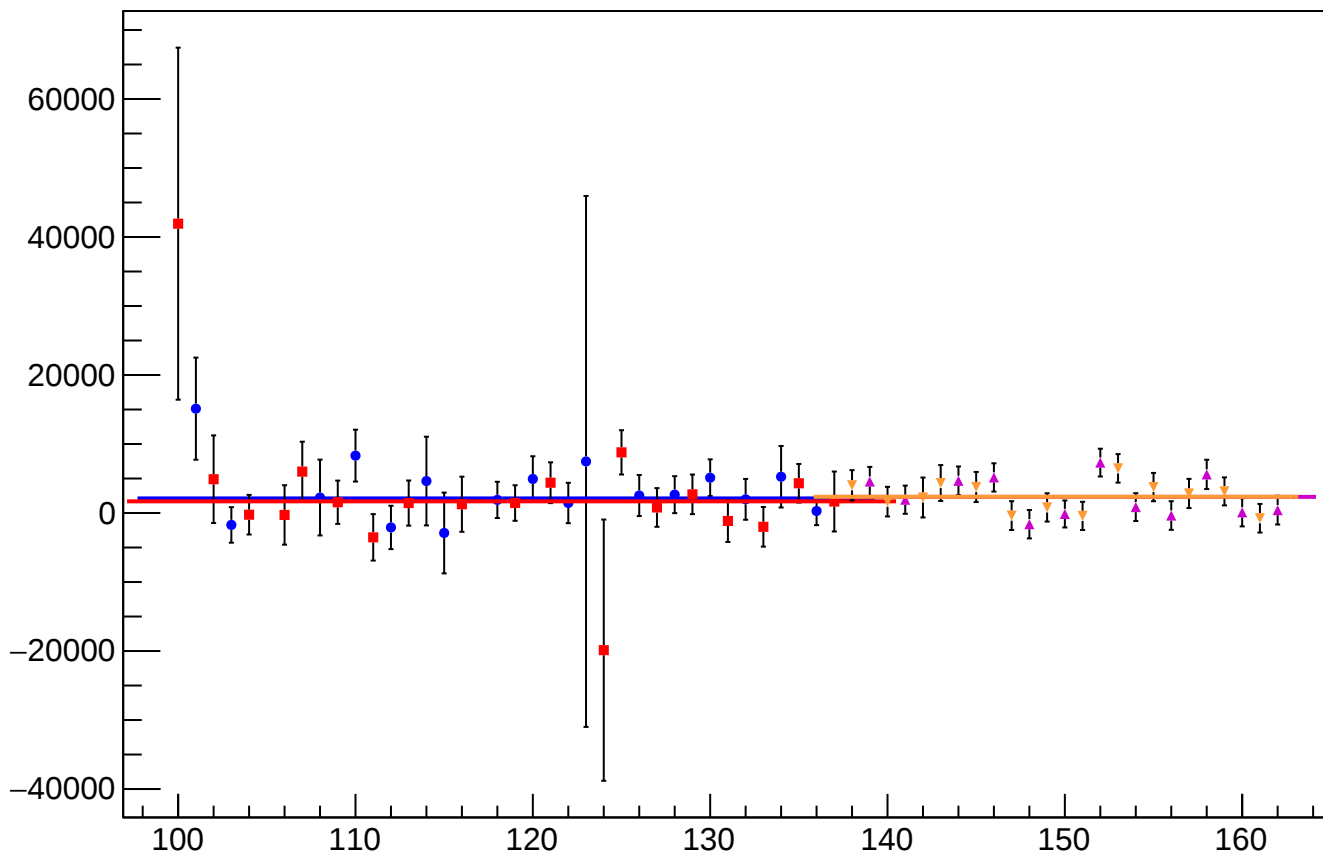
Right: 2073.628+/-0.398  $\chi^2/\text{NDF}$ : 533659.8/35

In: 1929.648+/-0.339  $\chi^2/\text{NDF}$ :580210.7/28

Out: 1953.323+/-0.339  $\chi^2/\text{NDF}$ :491907.5/31

All: 1941.478+/-0.240  $\chi^2/\text{NDF}$ : 1074559.8/60

# dit\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 2115.027 $\pm$ 795.794  $\chi^2$ /NDF: 14.2/16

Left Out: 2351.060 $\pm$ 599.948  $\chi^2$ /NDF:12.7/12

Right Out: 1691.127 $\pm$ 784.678  $\chi^2$ /NDF: 17.5/18

Left In: 2337.989 $\pm$ 592.661  $\chi^2$ /NDF:22.3/11

Left: 2344.445 $\pm$ 421.627  $\chi^2$ /NDF: 35.0/24

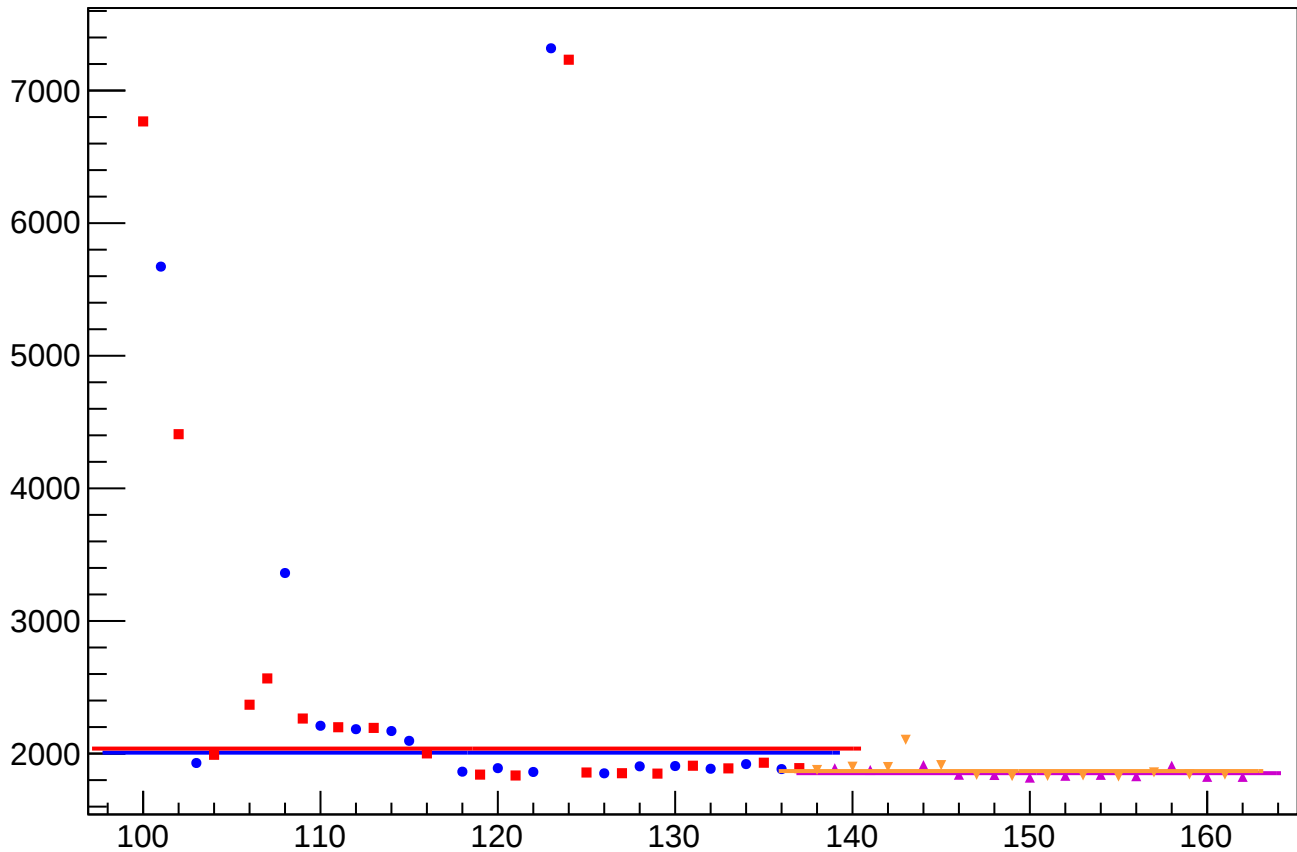
Right: 1900.096 $\pm$ 558.740  $\chi^2$ /NDF: 31.8/35

In: 2258.444 $\pm$ 475.326  $\chi^2$ /NDF:36.5/28

Out: 2107.599 $\pm$ 476.603  $\chi^2$ /NDF:30.6/31

All: 2183.224 $\pm$ 336.557  $\chi^2$ /NDF: 67.2/60

# dit\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 2007.037+/-0.563  $\chi^2/\text{NDF}$ : 702361.7/16

Left Out: 1868.174+/-0.424  $\chi^2/\text{NDF}$ : 21765.6/12

Right Out: 2037.781+/-0.555  $\chi^2/\text{NDF}$ : 618966.5/18

Left In: 1852.280+/-0.419  $\chi^2/\text{NDF}$ : 5990.1/11

Left: 1860.130+/-0.298  $\chi^2/\text{NDF}$ : 28466.1/24

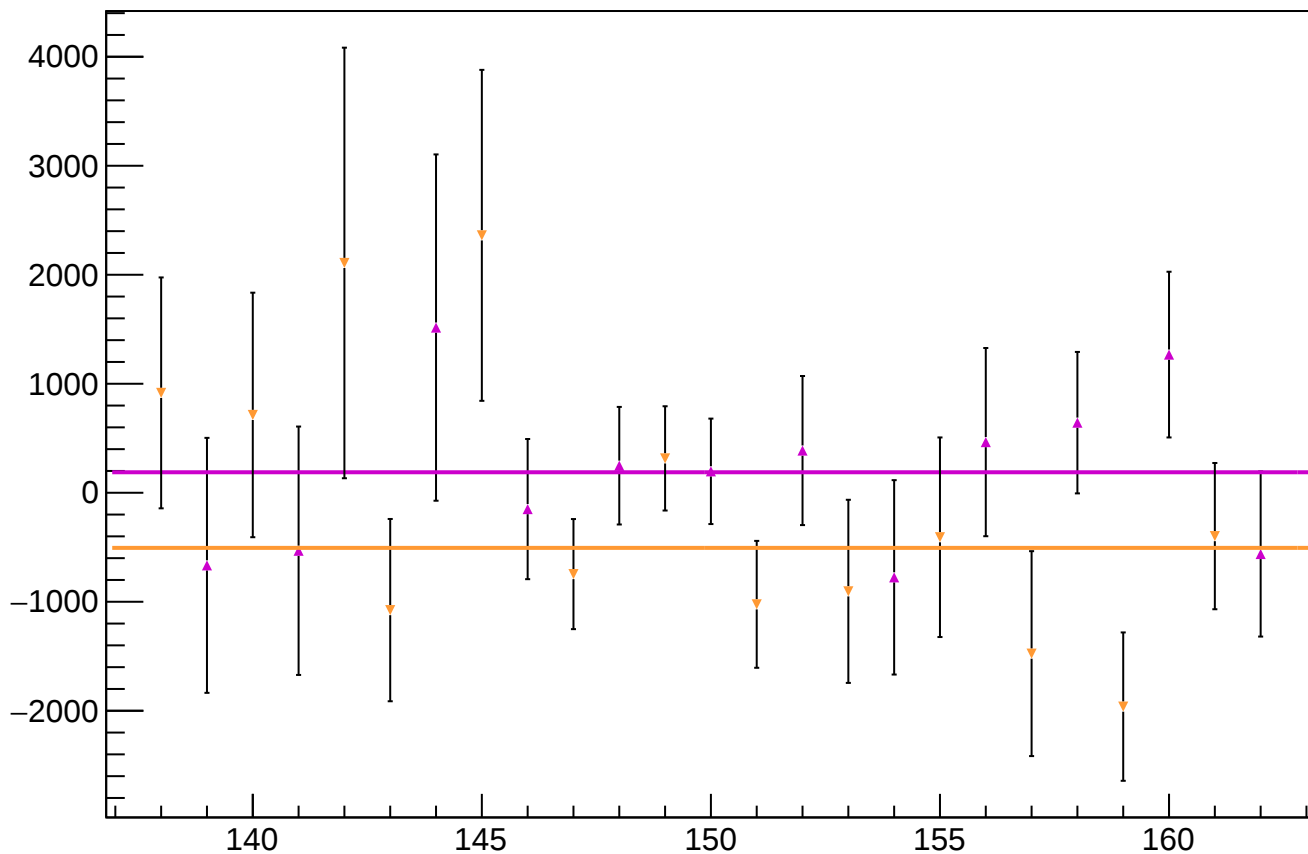
Right: 2022.626+/-0.395  $\chi^2/\text{NDF}$ : 1322841.6/35

In: 1907.492+/-0.336  $\chi^2/\text{NDF}$ : 757003.8/28

Out: 1930.746+/-0.337  $\chi^2/\text{NDF}$ : 699700.6/31

All: 1919.088+/-0.238  $\chi^2/\text{NDF}$ : 1459091.2/60

asym\_at1\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -505.658 $\pm$ 207.731  $\chi^2$ /NDF:18.6/12

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

Left In: 188.054 $\pm$ 210.280  $\chi^2$ /NDF:6.8/11

Left: -163.032 $\pm$ 147.781  $\chi^2$ /NDF: 30.9/24

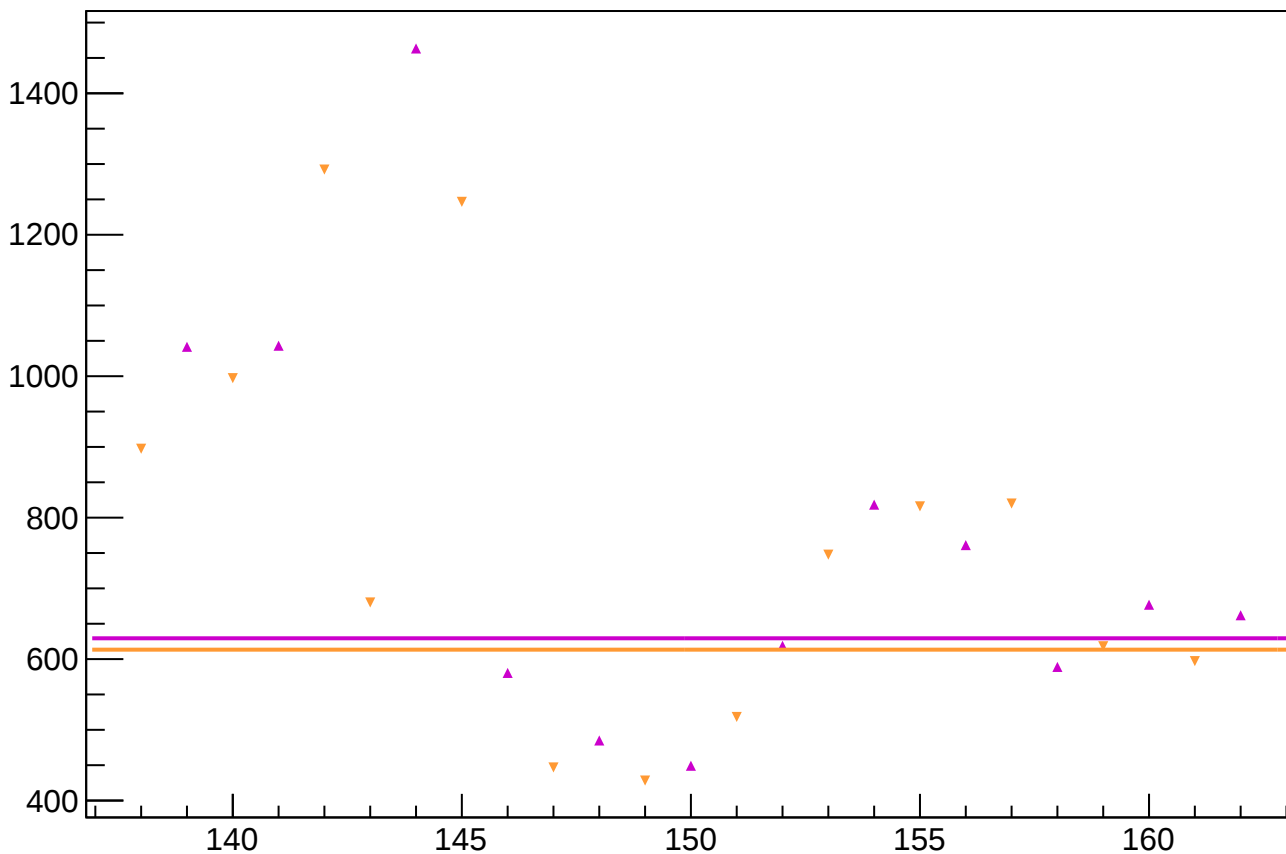
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 188.054 $\pm$ 210.280  $\chi^2$ /NDF:6.8/11

Out: -505.658 $\pm$ 207.731  $\chi^2$ /NDF:18.6/12

All: -163.032 $\pm$ 147.781  $\chi^2$ /NDF: 30.9/24

asym\_at1\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 613.348+/-0.147  $\chi^2/\text{NDF}$ :1792560.4/12

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

Left In: 629.420+/-0.149  $\chi^2/\text{NDF}$ :1652180.8/11

Left: 621.286+/-0.104  $\chi^2/\text{NDF}$ : 3450654.4/24

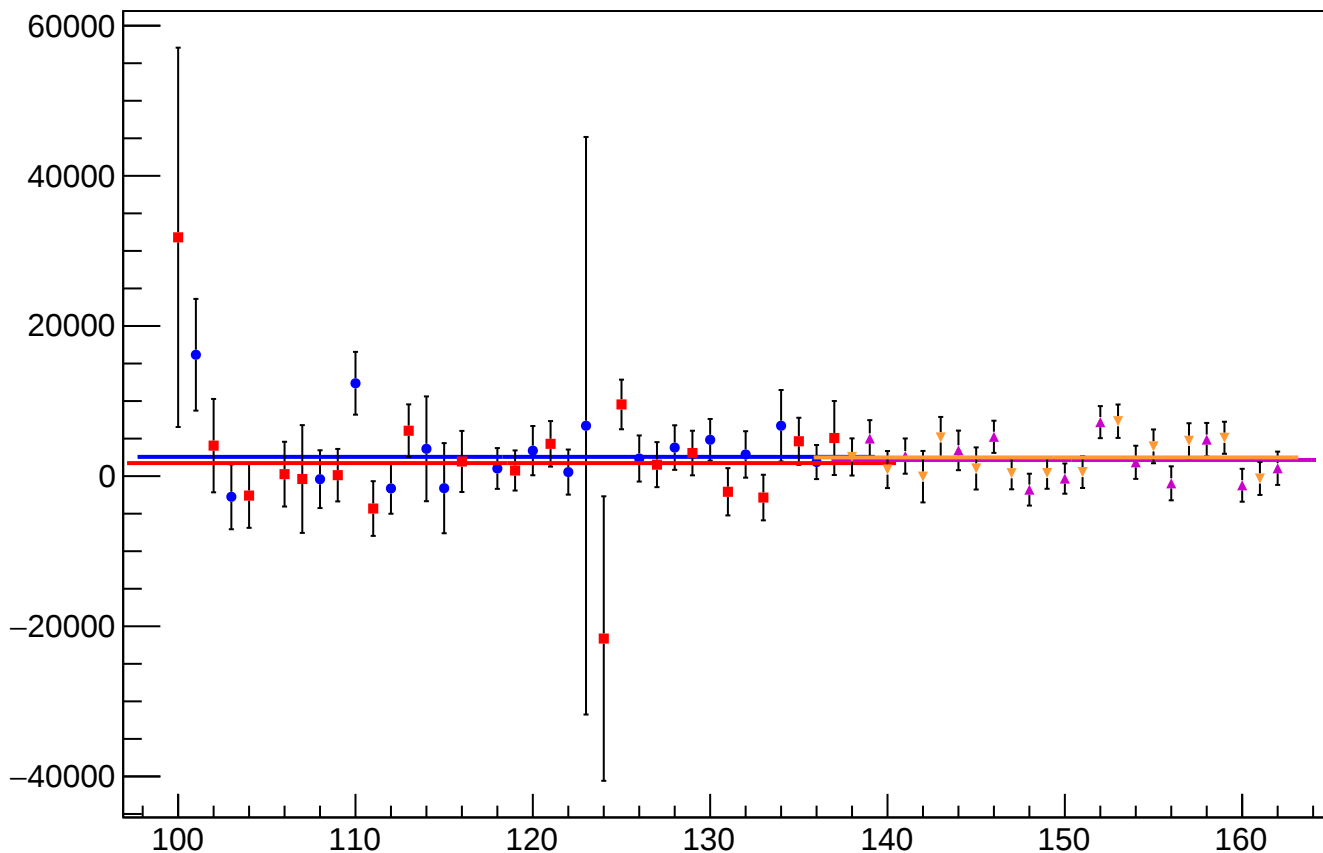
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 629.420+/-0.149  $\chi^2/\text{NDF}$ :1652180.8/11

Out: 613.348+/-0.147  $\chi^2/\text{NDF}$ :1792560.4/12

All: 621.286+/-0.104  $\chi^2/\text{NDF}$ : 3450654.4/24

# asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 2566.797 $\pm$ 856.089  $\chi^2$ /NDF: 15.6/16

Left Out: 2491.216 $\pm$ 652.445  $\chi^2$ /NDF:14.2/12

Right Out: 1737.684 $\pm$ 853.181  $\chi^2$ /NDF: 20.5/18

Left In: 2154.646 $\pm$ 643.643  $\chi^2$ /NDF:20.3/11

Left: 2320.646 $\pm$ 458.205  $\chi^2$ /NDF: 34.6/24

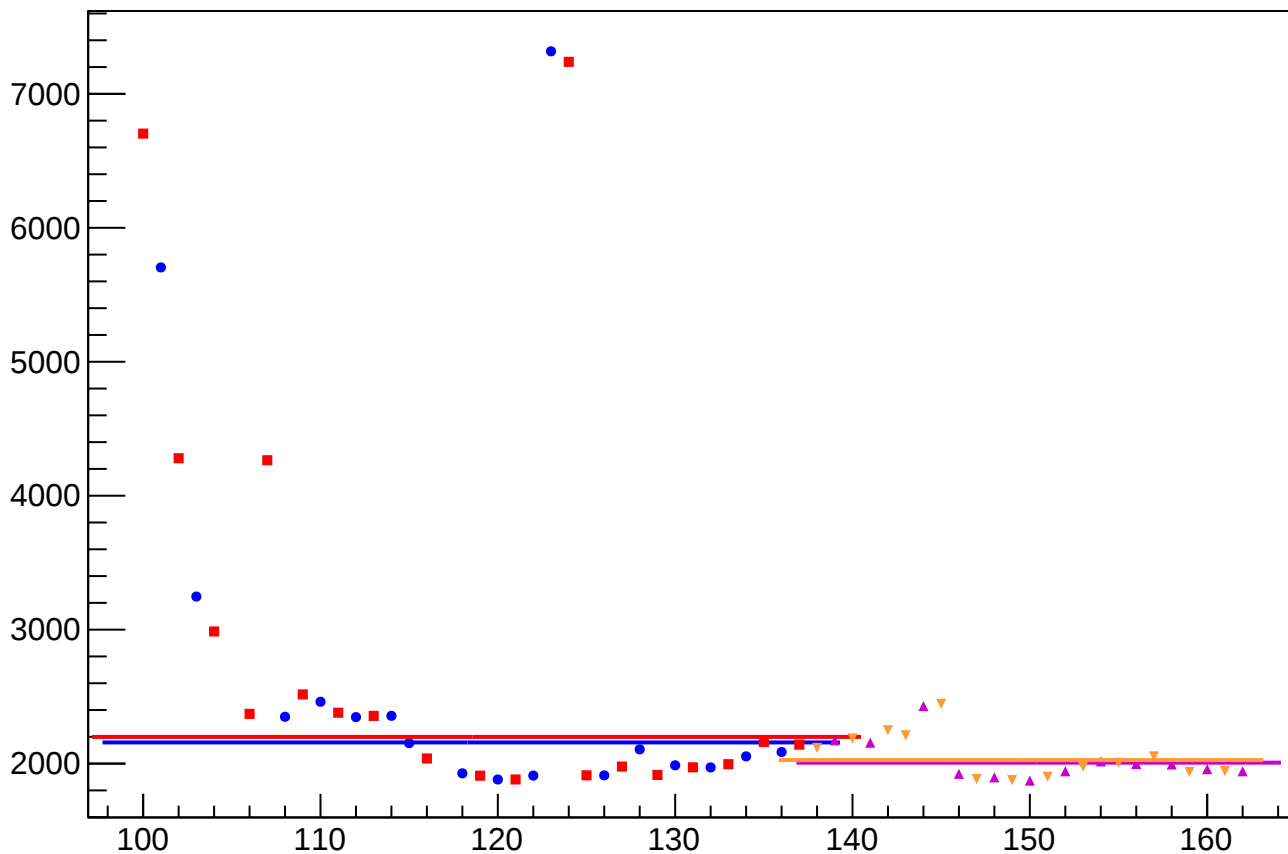
Right: 2150.830 $\pm$ 604.316  $\chi^2$ /NDF: 36.5/35

In: 2303.486 $\pm$ 514.459  $\chi^2$ /NDF:36.0/28

Out: 2213.160 $\pm$ 518.271  $\chi^2$ /NDF:35.2/31

All: 2258.657 $\pm$ 365.118  $\chi^2$ /NDF: 71.2/60

# asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 2158.148 $\pm$ 0.605  $\chi^2$ /NDF: 713862.1/16

Left Out: 2026.506 $\pm$ 0.461  $\chi^2$ /NDF:107067.3/12

Right Out: 2199.343 $\pm$ 0.603  $\chi^2$ /NDF: 803022.0/18

Left In: 2007.092 $\pm$ 0.455  $\chi^2$ /NDF:90519.2/11

Left: 2016.667 $\pm$ 0.324  $\chi^2$ /NDF: 198483.9/24

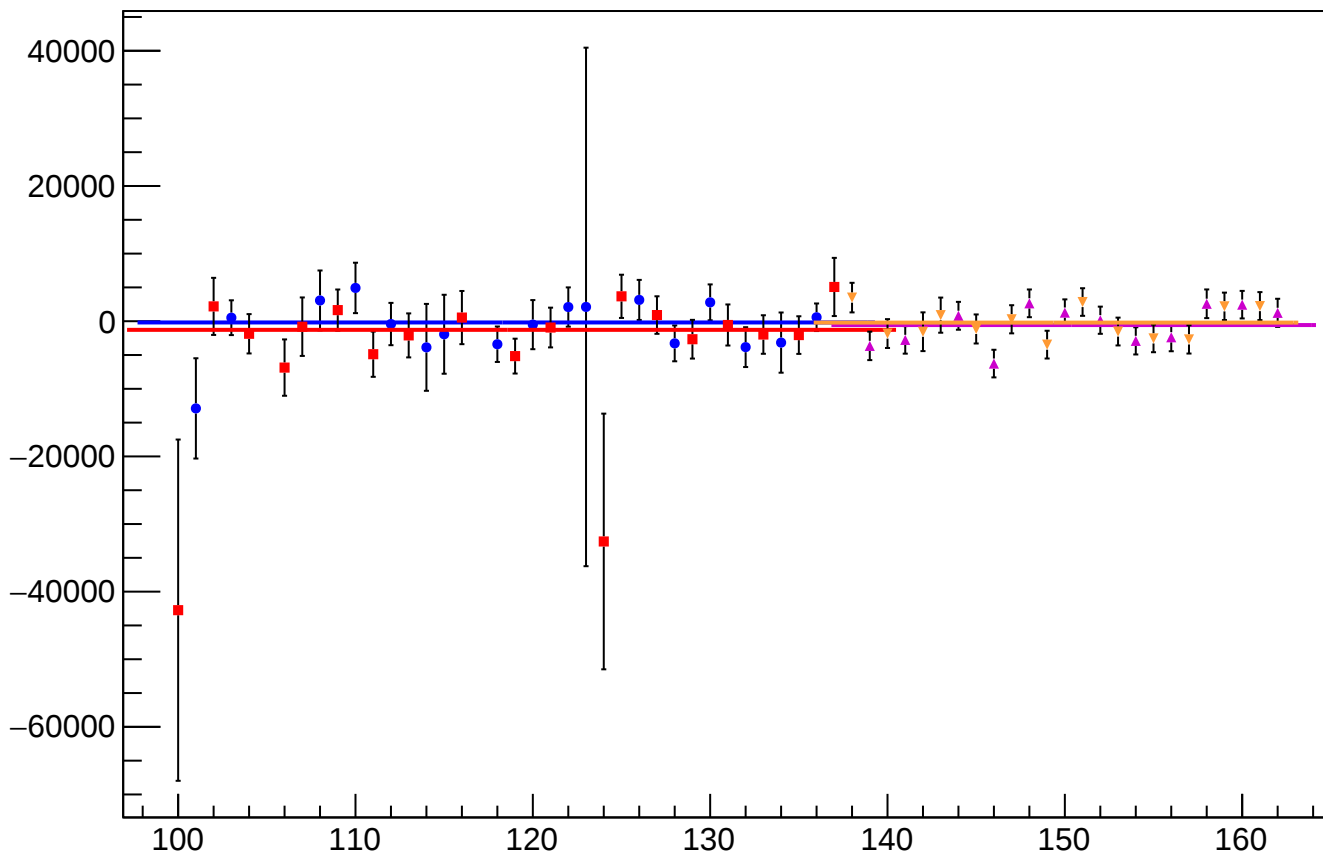
Right: 2178.816 $\pm$ 0.427  $\chi^2$ /NDF: 1519207.5/35

In: 2061.643 $\pm$ 0.364  $\chi^2$ /NDF:844162.8/28

Out: 2090.284 $\pm$ 0.366  $\chi^2$ /NDF:961879.7/31

All: 2075.858 $\pm$ 0.258  $\chi^2$ /NDF: 1809118.8/60

# dit\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -184.386+/-792.384  $\chi^2/\text{NDF}$ : 14.0/16

Left Out: -205.819+/-597.174  $\chi^2/\text{NDF}$ :14.8/12

Right Out: -1277.929+/-772.384  $\chi^2/\text{NDF}$ : 18.2/18

Left In: -568.910+/-590.841  $\chi^2/\text{NDF}$ :22.3/11

Left: -389.300+/-420.009  $\chi^2/\text{NDF}$ : 37.2/24

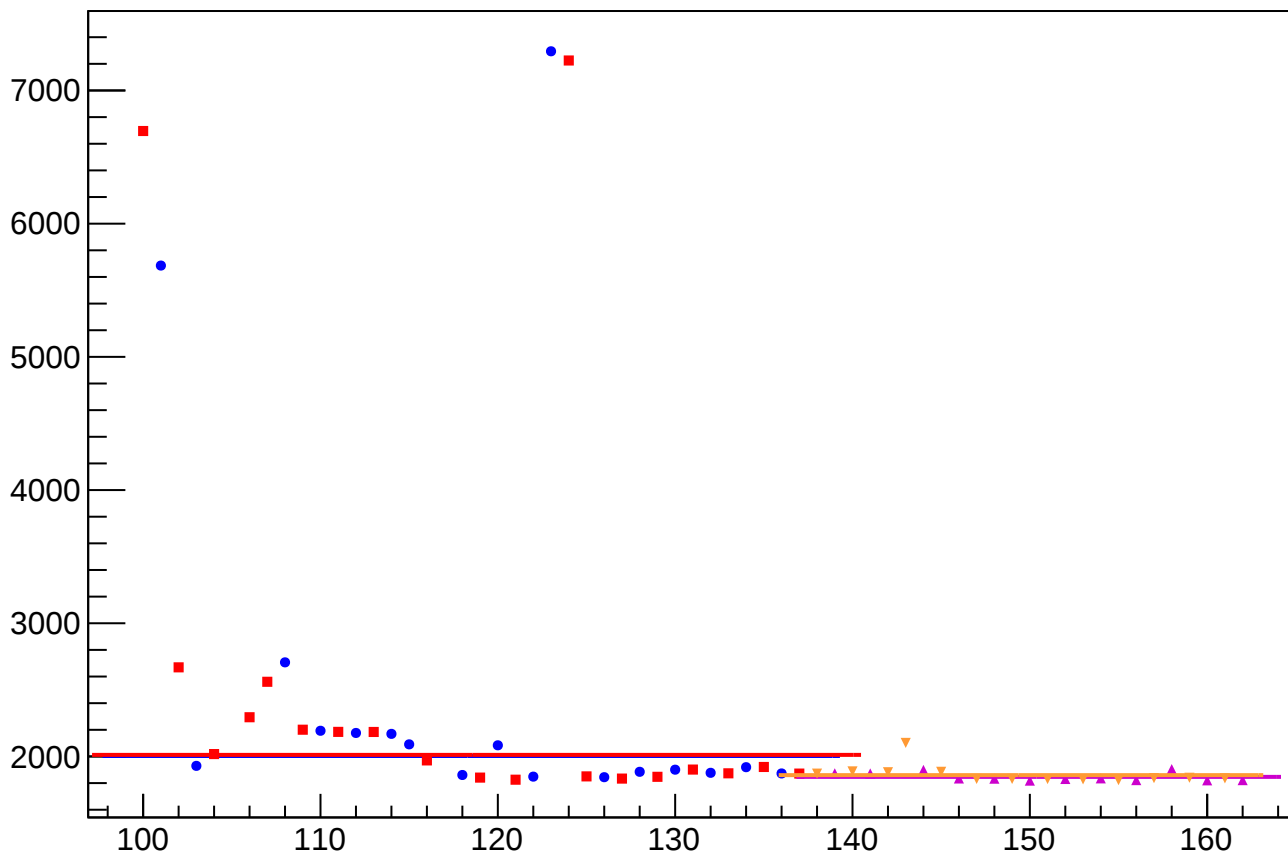
Right: -745.132+/-553.094  $\chi^2/\text{NDF}$ : 33.2/35

In: -431.510+/-473.660  $\chi^2/\text{NDF}$ :36.4/28

Out: -606.926+/-472.437  $\chi^2/\text{NDF}$ :34.2/31

All: -519.445+/-334.495  $\chi^2/\text{NDF}$ : 70.7/60

# dit\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 2003.545 $\pm$ 0.560  $\chi^2$ /NDF: 634133.6/16

Left Out: 1859.688 $\pm$ 0.422  $\chi^2$ /NDF: 21166.6/12

Right Out: 2011.800 $\pm$ 0.546  $\chi^2$ /NDF: 377955.0/18

Left In: 1846.679 $\pm$ 0.418  $\chi^2$ /NDF: 5083.3/11

Left: 1853.114 $\pm$ 0.297  $\chi^2$ /NDF: 26729.5/24

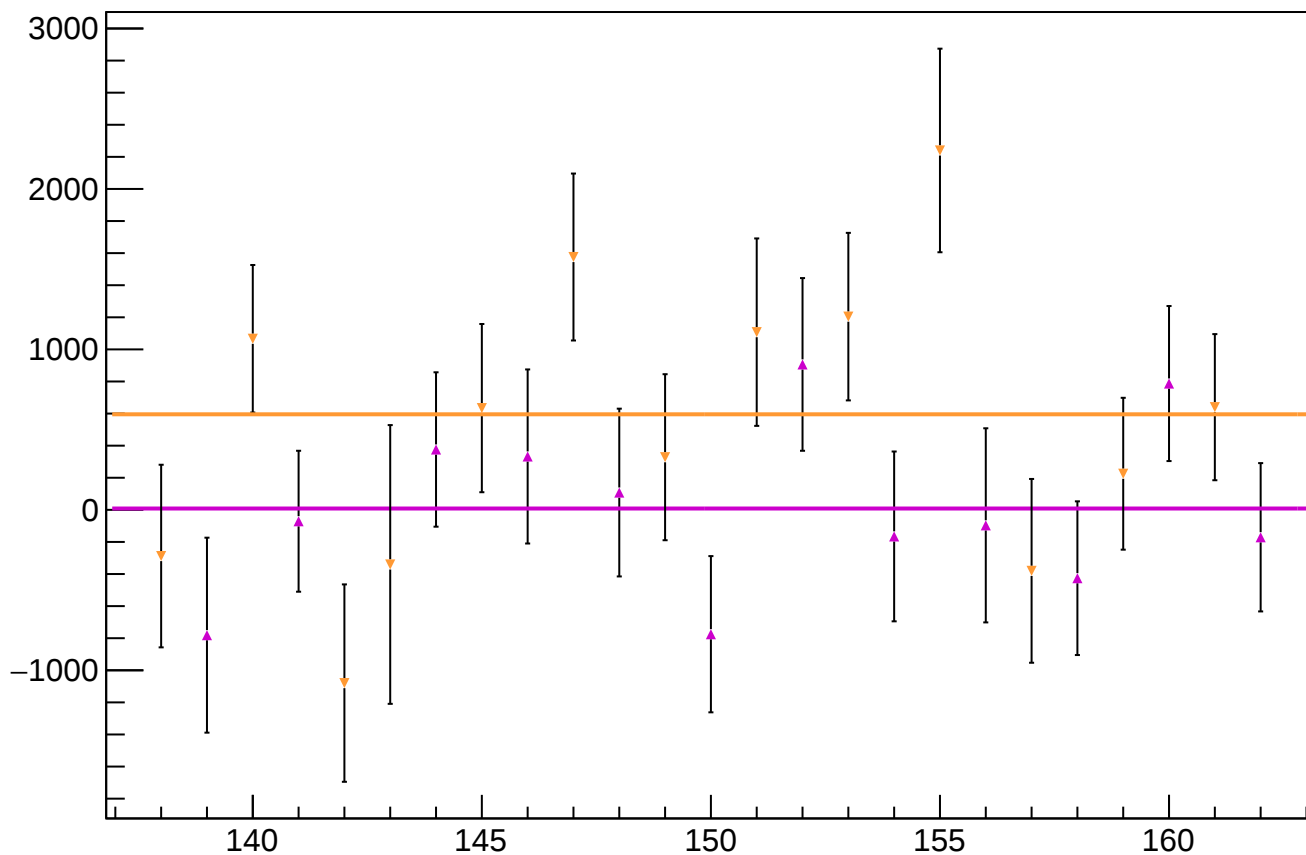
Right: 2007.778 $\pm$ 0.391  $\chi^2$ /NDF: 1012199.9/35

In: 1902.731 $\pm$ 0.335  $\chi^2$ /NDF: 689590.9/28

Out: 1916.598 $\pm$ 0.334  $\chi^2$ /NDF: 447670.2/31

All: 1909.682 $\pm$ 0.237  $\chi^2$ /NDF: 1138120.4/60

asym\_at1\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 595.502 $\pm$ 150.281  $\chi^2$ /NDF:28.2/12

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

Left In: 8.278 $\pm$ 146.537  $\chi^2$ /NDF:11.8/11

Left: 294.484 $\pm$ 104.916  $\chi^2$ /NDF: 47.8/24

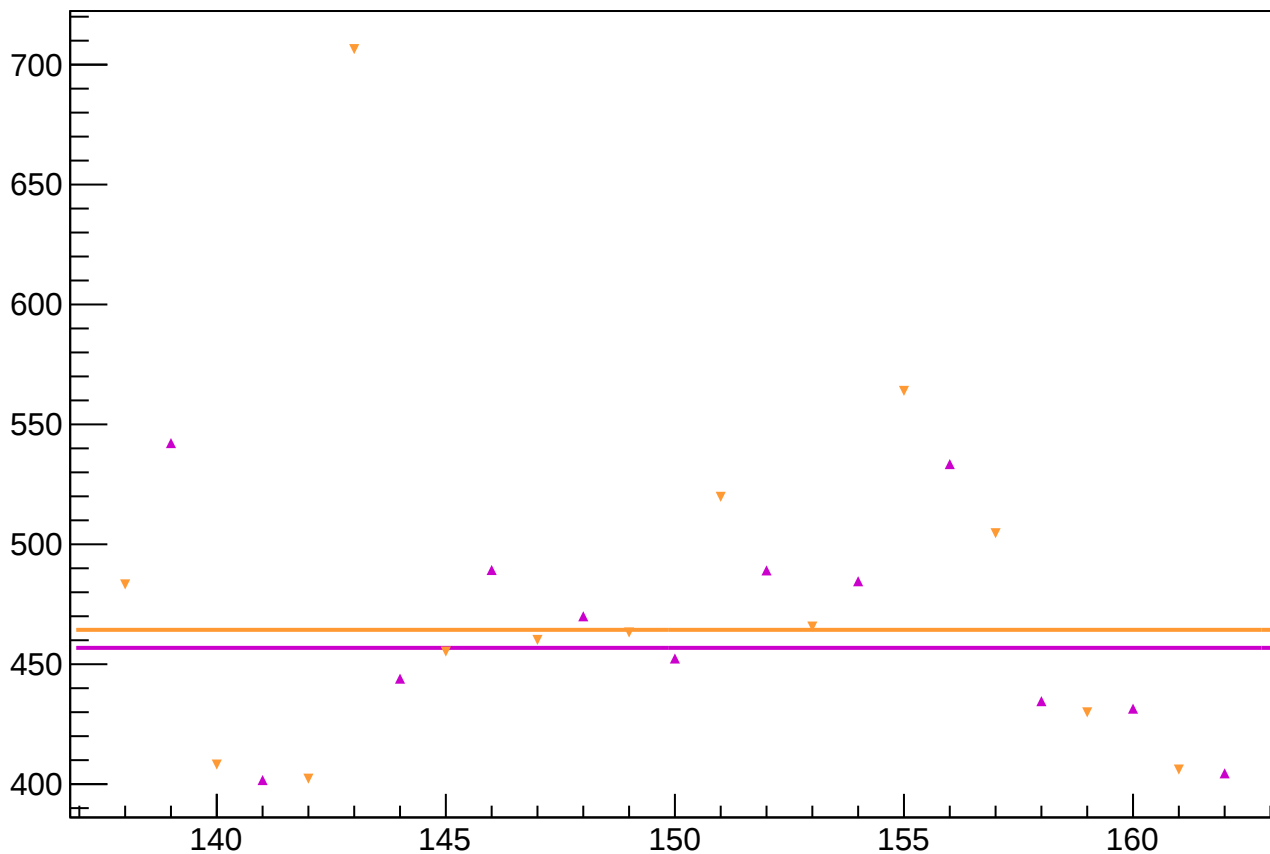
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 8.278 $\pm$ 146.537  $\chi^2$ /NDF:11.8/11

Out: 595.502 $\pm$ 150.281  $\chi^2$ /NDF:28.2/12

All: 294.484 $\pm$ 104.916  $\chi^2$ /NDF: 47.8/24

asym\_at1\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 464.336+/-0.106  $\chi^2/\text{NDF}$ :329139.7/12

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

Left In: 456.819+/-0.104  $\chi^2/\text{NDF}$ :161266.3/11

Left: 460.482+/-0.074  $\chi^2/\text{NDF}$ : 492971.3/24

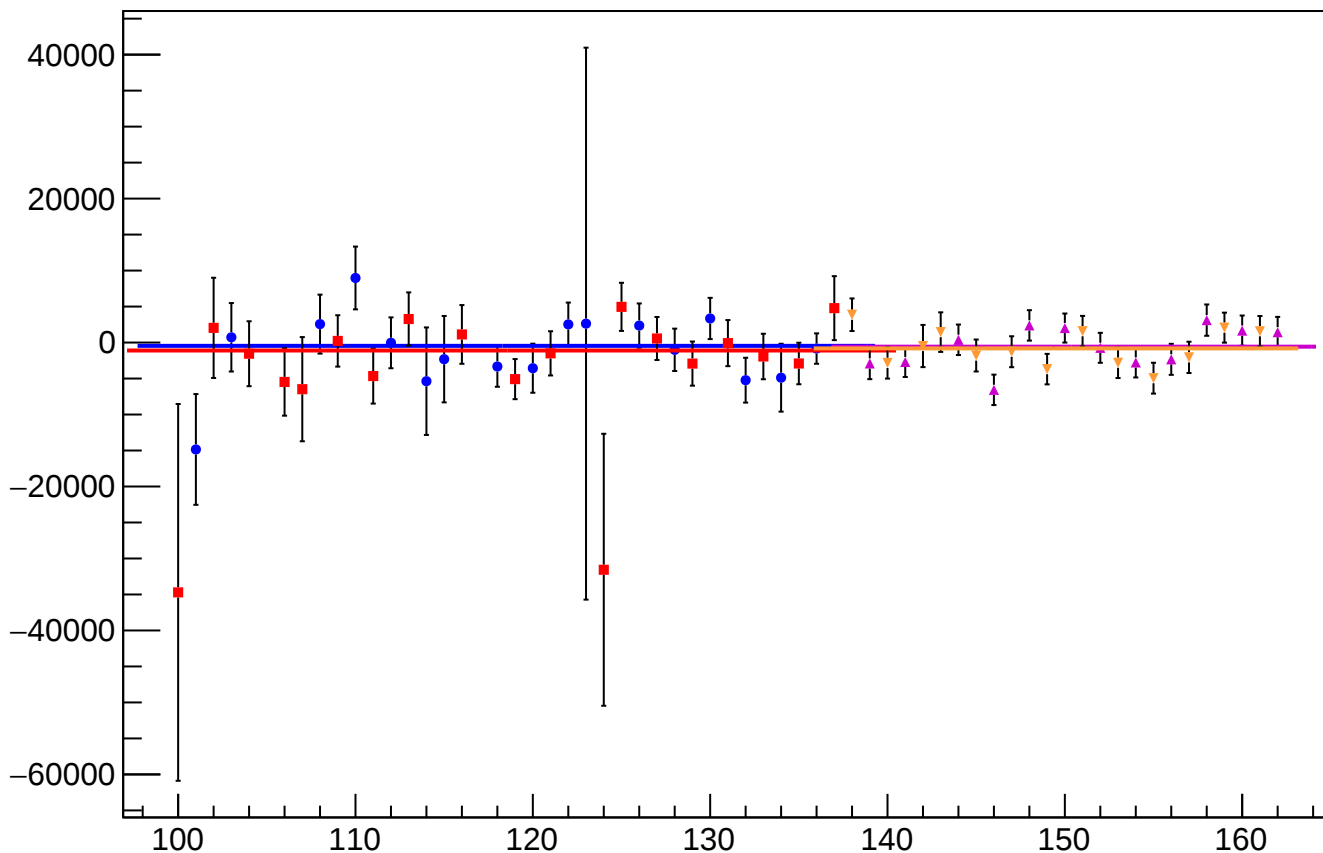
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 456.819+/-0.104  $\chi^2/\text{NDF}$ :161266.3/11

Out: 464.336+/-0.106  $\chi^2/\text{NDF}$ :329139.7/12

All: 460.482+/-0.074  $\chi^2/\text{NDF}$ : 492971.3/24

# asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -458.311+/-865.151  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: -811.108+/-617.652  $\chi^2/\text{NDF}$ :17.3/12

Right Out: -1104.312+/-867.160  $\chi^2/\text{NDF}$ : 16.9/18

Left In: -571.694+/-609.464  $\chi^2/\text{NDF}$ :20.7/11

Left: -689.804+/-433.822  $\chi^2/\text{NDF}$ : 38.1/24

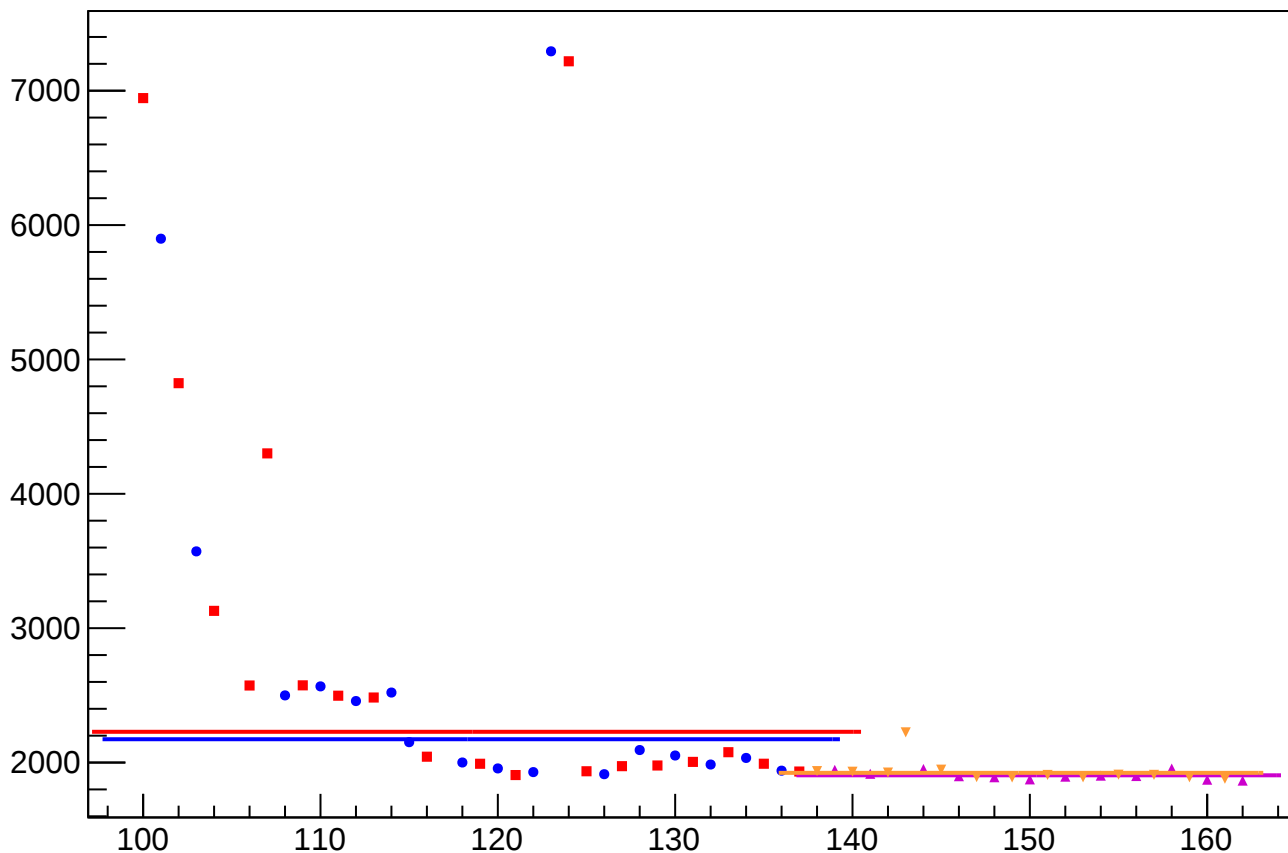
Right: -780.562+/-612.463  $\chi^2/\text{NDF}$ : 35.2/35

In: -534.089+/-498.247  $\chi^2/\text{NDF}$ :38.8/28

Out: -909.793+/-503.083  $\chi^2/\text{NDF}$ :34.3/31

All: -720.126+/-354.011  $\chi^2/\text{NDF}$ : 73.3/60

# asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 2173.529 $\pm$ 0.612  $\chi^2$ /NDF: 805360.7/16

Left Out: 1923.408 $\pm$ 0.437  $\chi^2$ /NDF: 27458.5/12

Right Out: 2228.892 $\pm$ 0.613  $\chi^2$ /NDF: 895863.4/18

Left In: 1905.102 $\pm$ 0.431  $\chi^2$ /NDF: 4595.9/11

Left: 1914.133 $\pm$ 0.307  $\chi^2$ /NDF: 32944.5/24

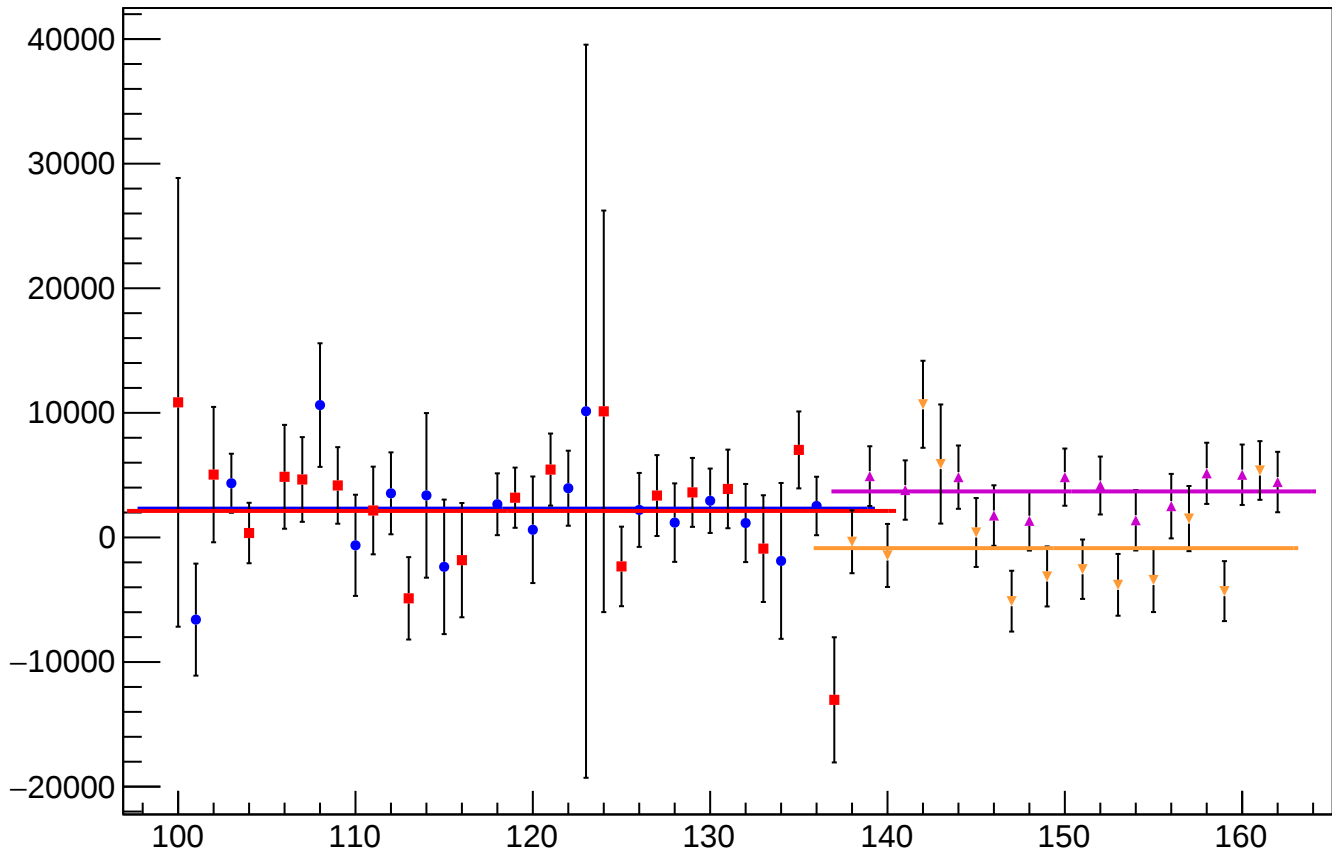
Right: 2201.146 $\pm$ 0.433  $\chi^2$ /NDF: 1705309.7/35

In: 1994.131 $\pm$ 0.352  $\chi^2$ /NDF: 938629.5/28

Out: 2026.227 $\pm$ 0.356  $\chi^2$ /NDF: 1087987.2/31

All: 2010.024 $\pm$ 0.250  $\chi^2$ /NDF: 2030726.4/60

dit\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 2311.075 $\pm$ 821.924  $\chi^2$ /NDF: 10.2/16

Left Out: -857.769 $\pm$ 725.814  $\chi^2$ /NDF:29.9/12

Right Out: 2128.072 $\pm$ 791.943  $\chi^2$ /NDF: 24.3/18

Left In: 3693.792 $\pm$ 698.404  $\chi^2$ /NDF:4.2/11

Left: 1505.578 $\pm$ 503.257  $\chi^2$ /NDF: 54.6/24

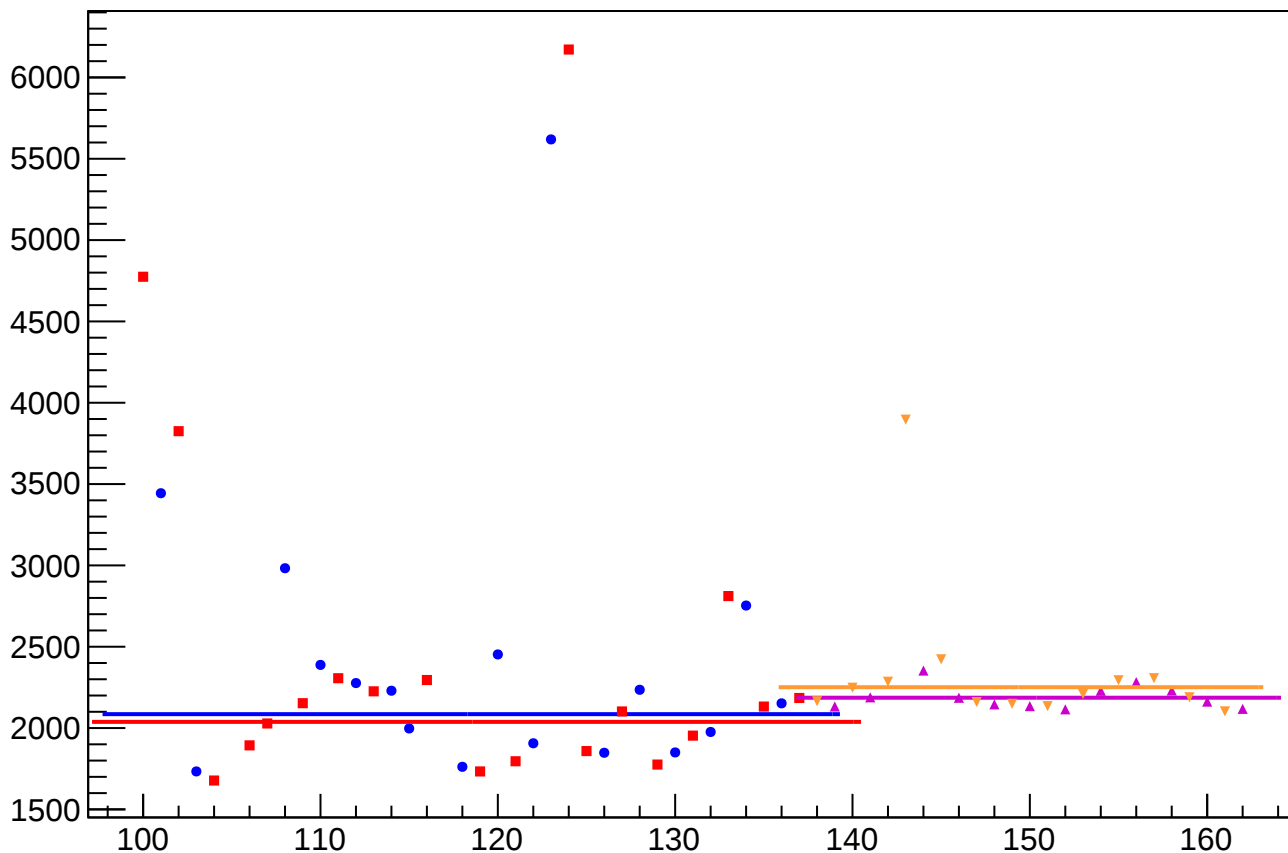
Right: 2216.175 $\pm$ 570.293  $\chi^2$ /NDF: 34.6/35

In: 3114.037 $\pm$ 532.215  $\chi^2$ /NDF:16.1/28

Out: 505.304 $\pm$ 535.082  $\chi^2$ /NDF:62.0/31

All: 1816.677 $\pm$ 377.343  $\chi^2$ /NDF: 90.0/60

# dit\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In:  $2085.469 \pm 0.581$   $\chi^2/\text{NDF}: 457066.0/16$

Left Out:  $2251.125 \pm 0.513$   $\chi^2/\text{NDF}: 269427.9/12$

Right Out:  $2038.056 \pm 0.560$   $\chi^2/\text{NDF}: 609210.7/18$

Left In:  $2186.488 \pm 0.494$   $\chi^2/\text{NDF}: 18947.1/11$

Left:  $2217.563 \pm 0.356$   $\chi^2/\text{NDF}: 296610.9/24$

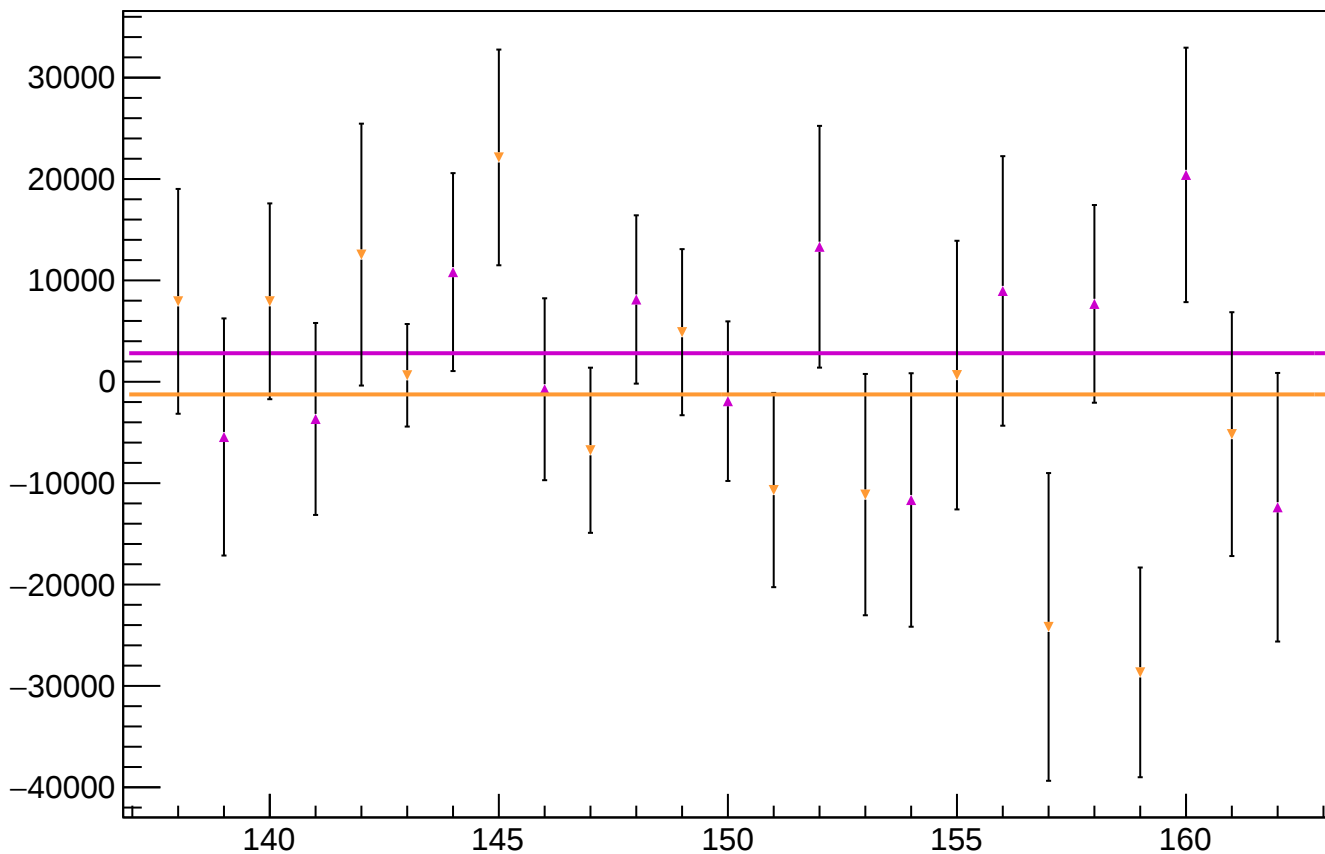
Right:  $2060.877 \pm 0.403$   $\chi^2/\text{NDF}: 1069728.5/35$

In:  $2144.132 \pm 0.376$   $\chi^2/\text{NDF}: 493557.2/28$

Out:  $2153.834 \pm 0.378$   $\chi^2/\text{NDF}: 957338.1/31$

All:  $2148.957 \pm 0.267$   $\chi^2/\text{NDF}: 1451225.9/60$

asym\_at2\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1247.261+/-2608.307  $\chi^2/\text{NDF}$ :19.8/12

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

Left In: 2816.498+/-2965.793  $\chi^2/\text{NDF}$ :8.4/11

Left: 525.063+/-1958.612  $\chi^2/\text{NDF}$ : 29.3/24

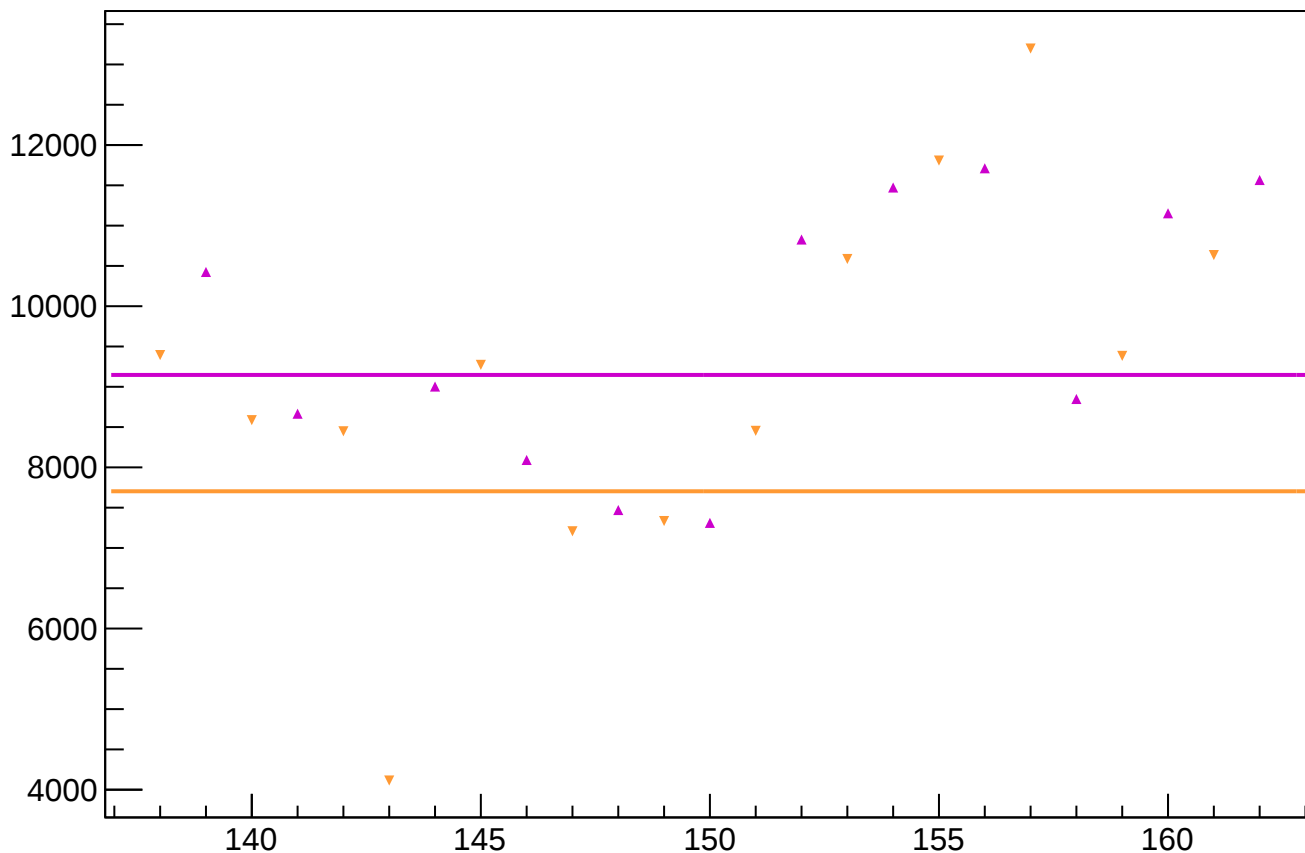
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2816.498+/-2965.793  $\chi^2/\text{NDF}$ :8.4/11

Out: -1247.261+/-2608.307  $\chi^2/\text{NDF}$ :19.8/12

All: 525.063+/-1958.612  $\chi^2/\text{NDF}$ : 29.3/24

asym\_at2\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 7703.375+/-1.844  $\chi^2/\text{NDF}$ :1886865.6/12

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

Left In: 9147.124+/-2.097  $\chi^2/\text{NDF}$ :550539.1/11

Left: 8333.036+/-1.385  $\chi^2/\text{NDF}$ : 2704650.7/24

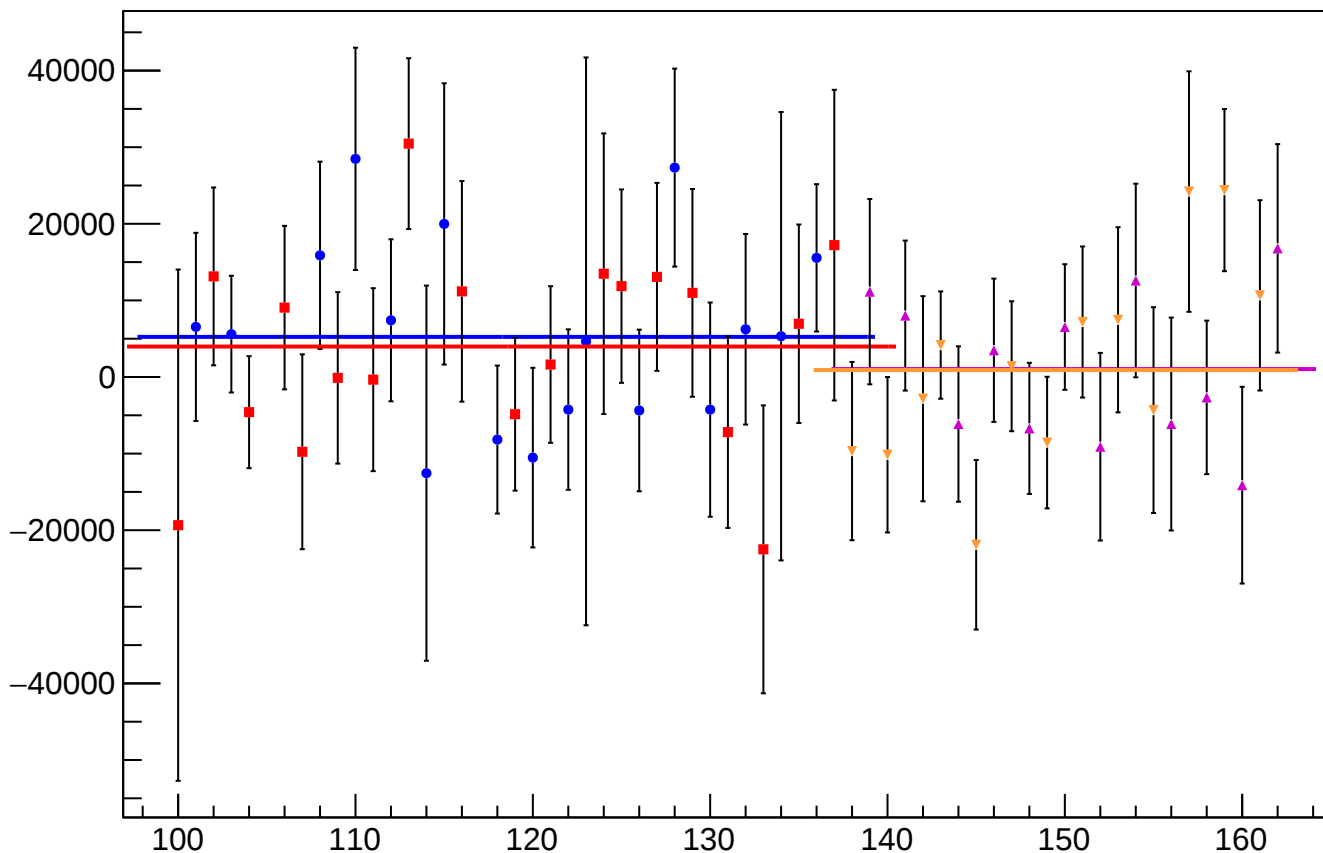
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9147.124+/-2.097  $\chi^2/\text{NDF}$ :550539.1/11

Out: 7703.375+/-1.844  $\chi^2/\text{NDF}$ :1886865.6/12

All: 8333.036+/-1.385  $\chi^2/\text{NDF}$ : 2704650.7/24

# asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 5238.554 $\pm$ 2946.164  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: 909.492 $\pm$ 2877.191  $\chi^2/\text{NDF}$ : 16.4/12

Right Out: 3976.061 $\pm$ 2790.421  $\chi^2/\text{NDF}$ : 15.6/18

Left In: 1039.344 $\pm$ 3064.904  $\chi^2/\text{NDF}$ : 7.7/11

Left: 970.320 $\pm$ 2097.705  $\chi^2/\text{NDF}$ : 24.1/24

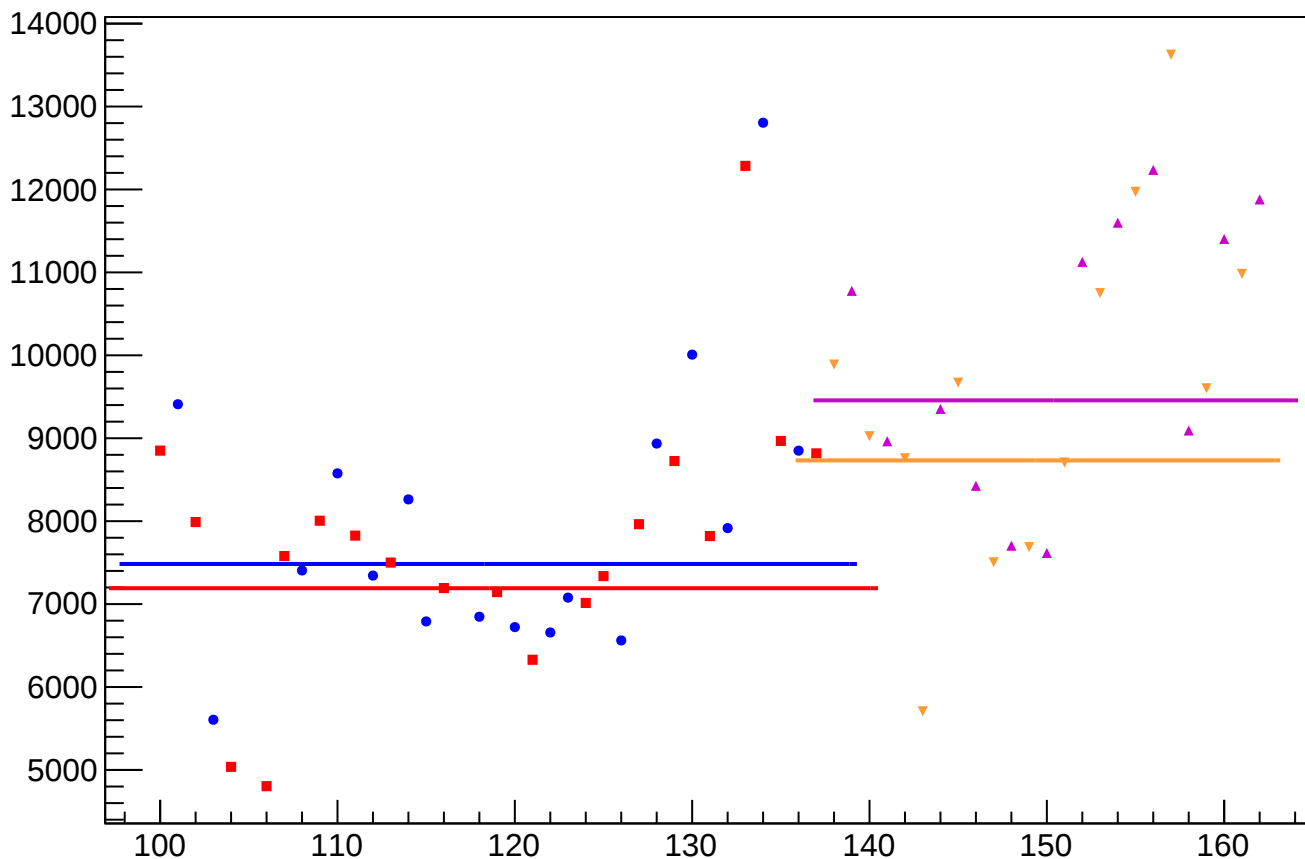
Right: 4573.057 $\pm$ 2025.948  $\chi^2/\text{NDF}$ : 30.2/35

In: 3221.866 $\pm$ 2123.990  $\chi^2/\text{NDF}$ : 23.2/28

Out: 2489.714 $\pm$ 2003.099  $\chi^2/\text{NDF}$ : 32.6/31

All: 2834.362 $\pm$ 1457.269  $\chi^2/\text{NDF}$ : 55.8/60

# asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 7483.785+/-2.083  $\chi^2/\text{NDF}$ : 431806.2/16

Left Out: 8732.524+/-2.034  $\chi^2/\text{NDF}$ : 925749.2/12

Right Out: 7191.451+/-1.973  $\chi^2/\text{NDF}$ : 558753.1/18

Left In: 9456.781+/-2.167  $\chi^2/\text{NDF}$ : 524601.0/11

Left: 9071.796+/-1.483  $\chi^2/\text{NDF}$ : 1509715.5/24

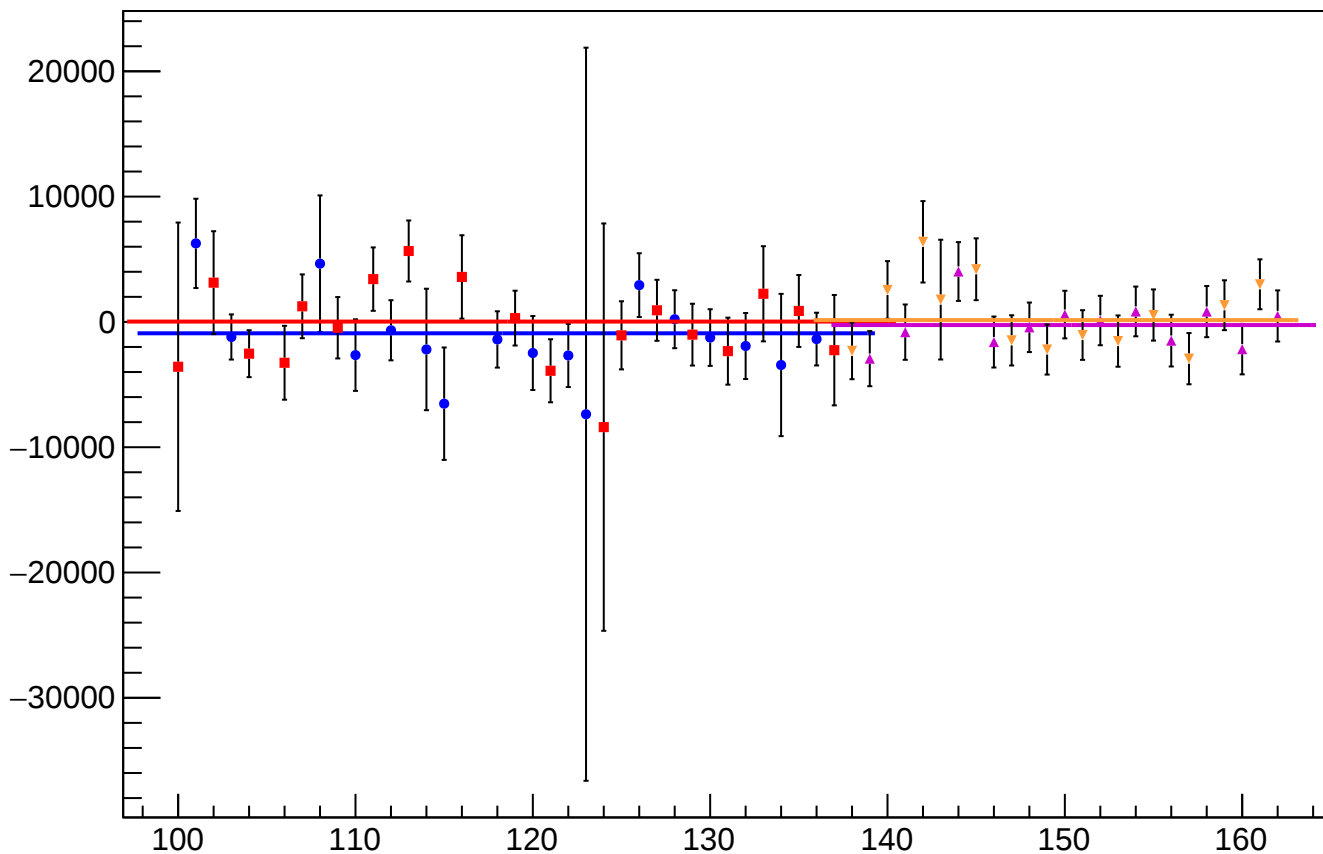
Right: 7329.673+/-1.432  $\chi^2/\text{NDF}$ : 1000940.7/35

In: 8431.300+/-1.502  $\chi^2/\text{NDF}$ : 1387181.8/28

Out: 7938.301+/-1.416  $\chi^2/\text{NDF}$ : 1780207.2/31

All: 8170.359+/-1.030  $\chi^2/\text{NDF}$ : 3224421.6/60

# dit\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -909.107 $\pm$ 671.360  $\chi^2$ /NDF: 10.9/16

Left Out: 140.814 $\pm$ 612.685  $\chi^2$ /NDF:16.6/12

Right Out: 26.566 $\pm$ 642.141  $\chi^2$ /NDF: 17.0/18

Left In: -251.116 $\pm$ 593.232  $\chi^2$ /NDF:7.5/11

Left: -61.472 $\pm$ 426.190  $\chi^2$ /NDF: 24.3/24

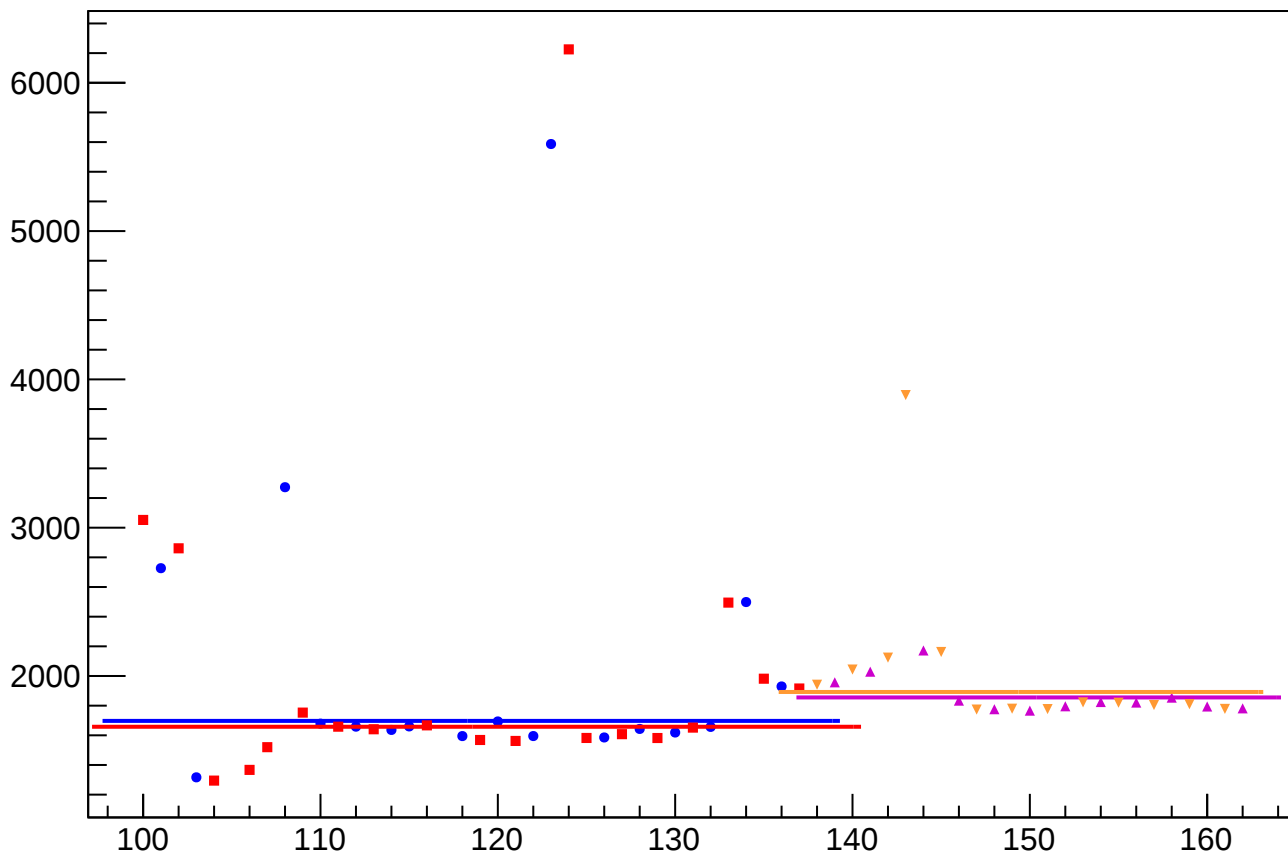
Right: -420.467 $\pm$ 464.048  $\chi^2$ /NDF: 29.0/35

In: -539.615 $\pm$ 444.547  $\chi^2$ /NDF:19.0/28

Out: 86.370 $\pm$ 443.281  $\chi^2$ /NDF:33.6/31

All: -225.730 $\pm$ 313.894  $\chi^2$ /NDF: 53.6/60

# dit\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In:  $1697.239 \pm 0.475$   $\chi^2/\text{NDF}: 539725.9/16$

Left Out:  $1892.281 \pm 0.433$   $\chi^2/\text{NDF}: 433355.0/12$

Right Out:  $1657.716 \pm 0.454$   $\chi^2/\text{NDF}: 603007.7/18$

Left In:  $1855.326 \pm 0.419$   $\chi^2/\text{NDF}: 68327.6/11$

Left:  $1873.207 \pm 0.301$   $\chi^2/\text{NDF}: 505437.9/24$

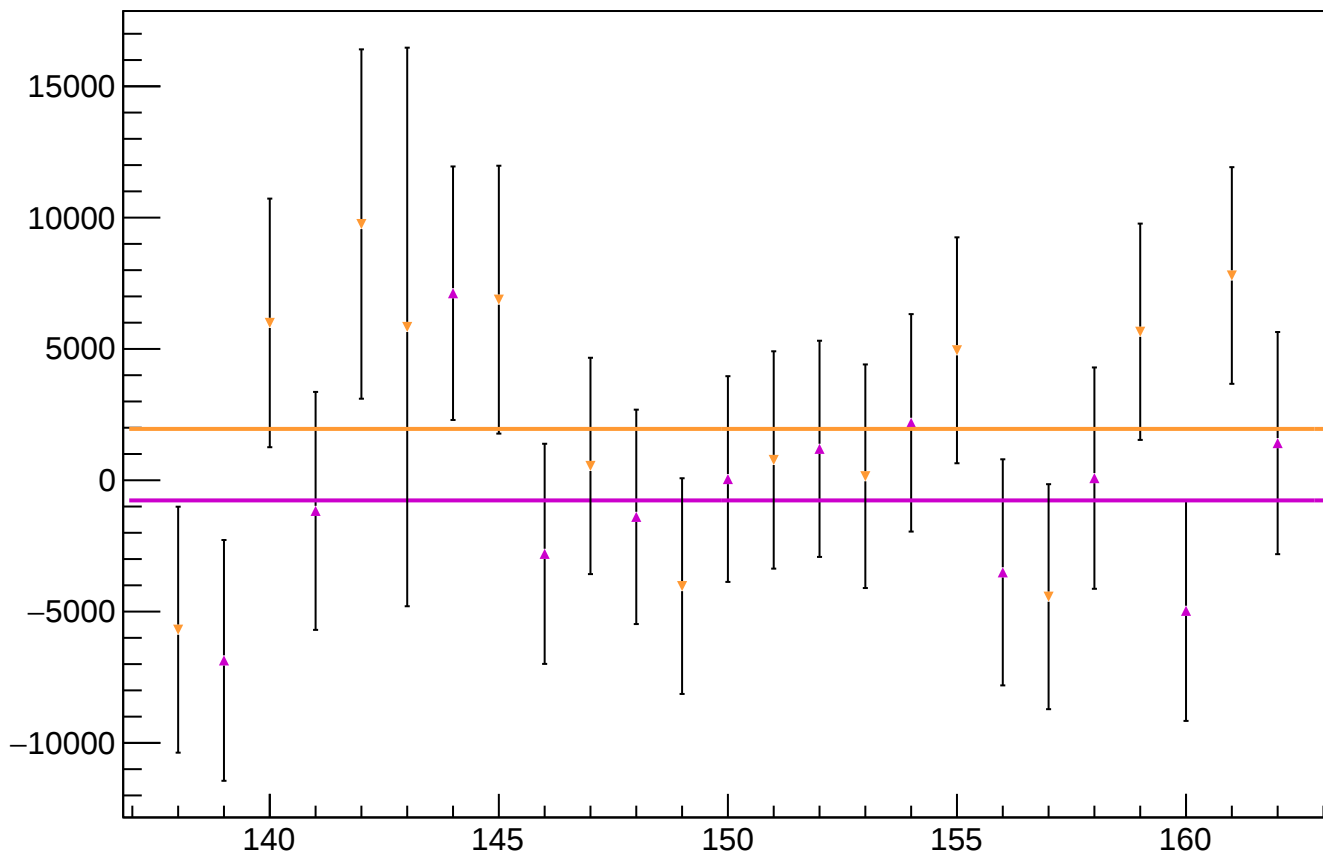
Right:  $1676.599 \pm 0.328$   $\chi^2/\text{NDF}: 1146353.4/35$

In:  $1786.012 \pm 0.314$   $\chi^2/\text{NDF}: 670326.1/28$

Out:  $1780.501 \pm 0.313$   $\chi^2/\text{NDF}: 1176056.9/31$

All:  $1783.249 \pm 0.222$   $\chi^2/\text{NDF}: 1846537.1/60$

asym\_at2\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 1955.299+/-1271.738  $\chi^2/\text{NDF}$ :13.9/12

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

Left In: -767.019+/-1229.182  $\chi^2/\text{NDF}$ :7.2/11

Left: 547.830+/-883.825  $\chi^2/\text{NDF}$ : 23.4/24

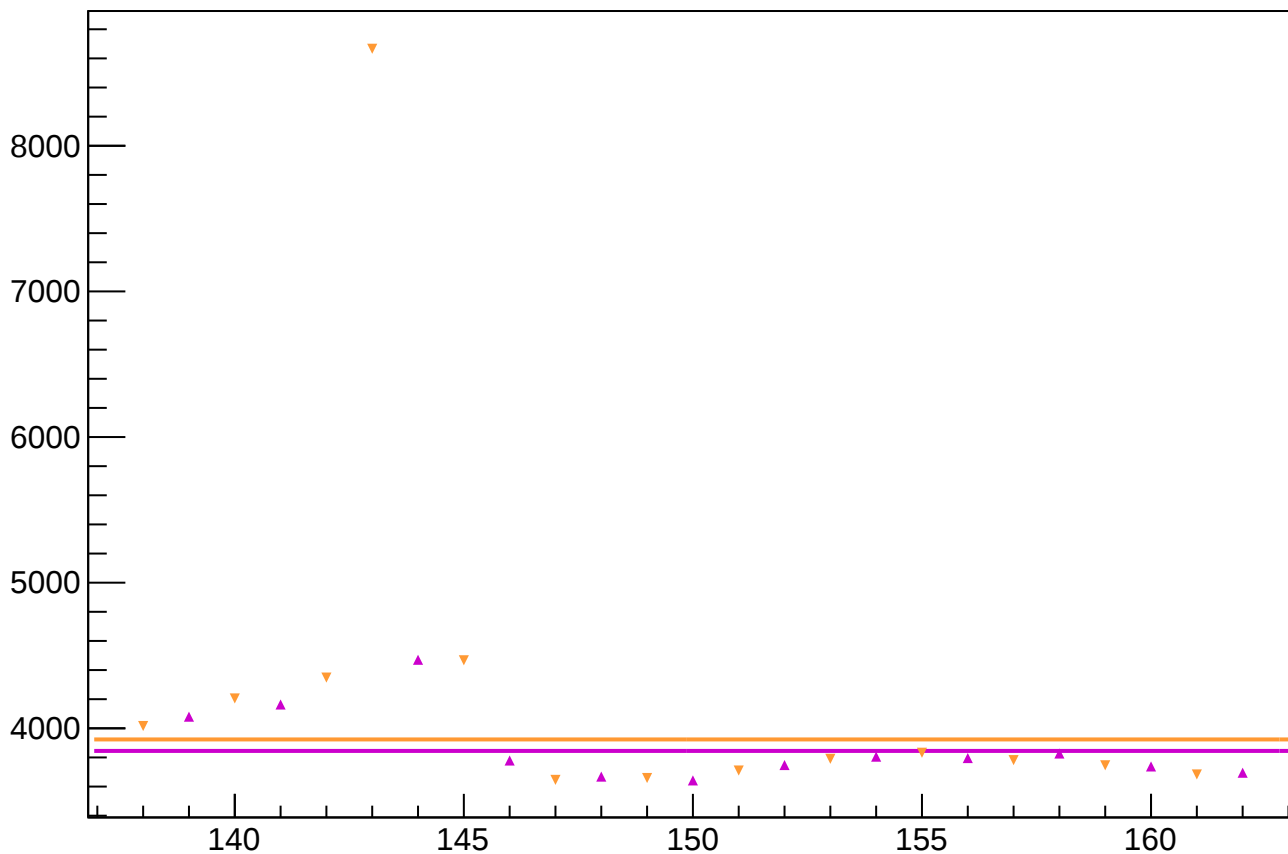
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -767.019+/-1229.182  $\chi^2/\text{NDF}$ :7.2/11

Out: 1955.299+/-1271.738  $\chi^2/\text{NDF}$ :13.9/12

All: 547.830+/-883.825  $\chi^2/\text{NDF}$ : 23.4/24

asym\_at2\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 3923.646+/-0.899  $\chi^2/\text{NDF}$ : 474815.9/12

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

Left In: 3844.751+/-0.869  $\chi^2/\text{NDF}$ : 63761.0/11

Left: 3882.856+/-0.625  $\chi^2/\text{NDF}$ : 542556.4/24

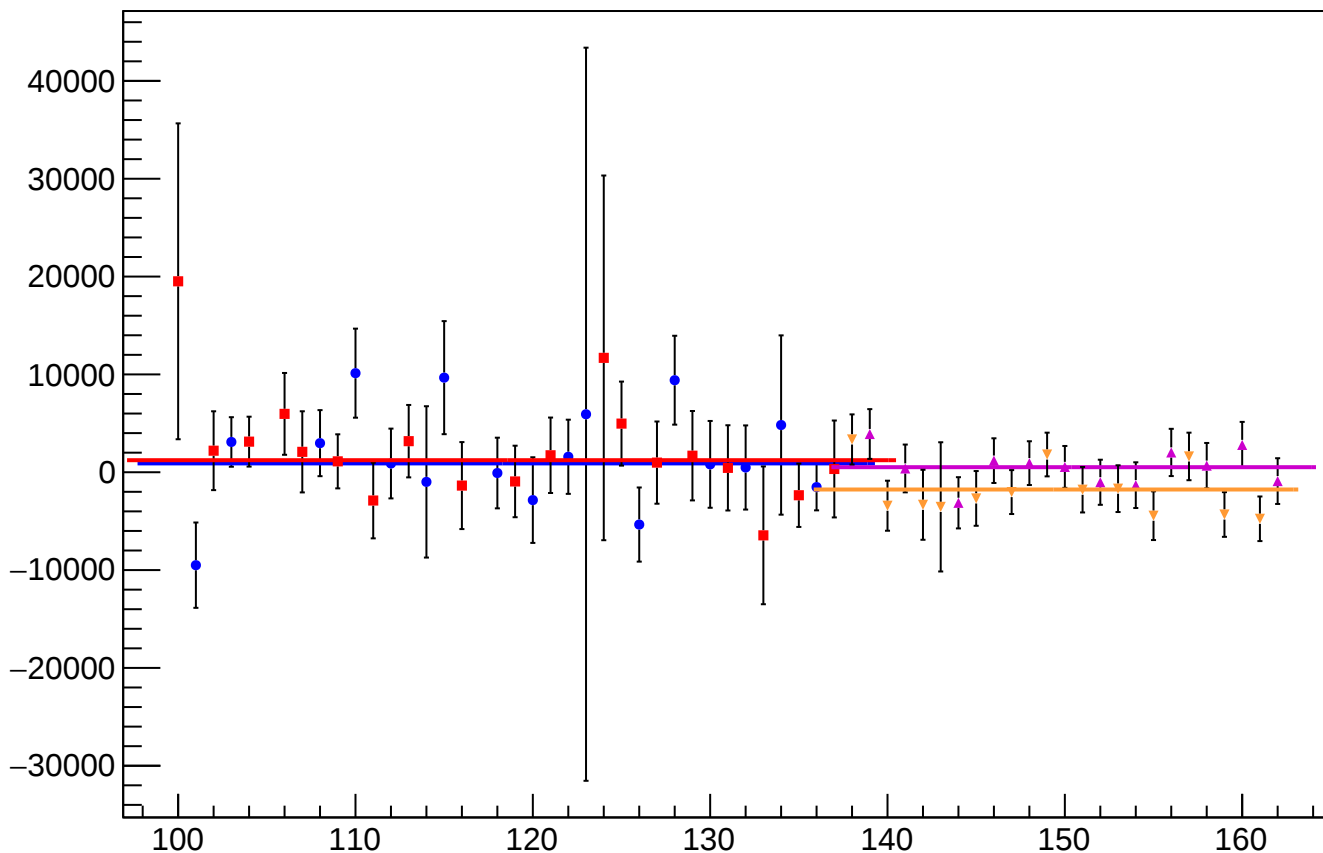
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3844.751+/-0.869  $\chi^2/\text{NDF}$ : 63761.0/11

Out: 3923.646+/-0.899  $\chi^2/\text{NDF}$ : 474815.9/12

All: 3882.856+/-0.625  $\chi^2/\text{NDF}$ : 542556.4/24

# asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: 903.274 $\pm$ 961.918  $\chi^2/\text{NDF}$ : 21.6/16

Left Out: -1764.419 $\pm$ 705.578  $\chi^2/\text{NDF}$ :13.4/12

Right Out: 1231.015 $\pm$ 925.029  $\chi^2/\text{NDF}$ : 8.9/18

Left In: 517.229 $\pm$ 678.688  $\chi^2/\text{NDF}$ :6.6/11

Left: -579.290 $\pm$ 489.135  $\chi^2/\text{NDF}$ : 25.5/24

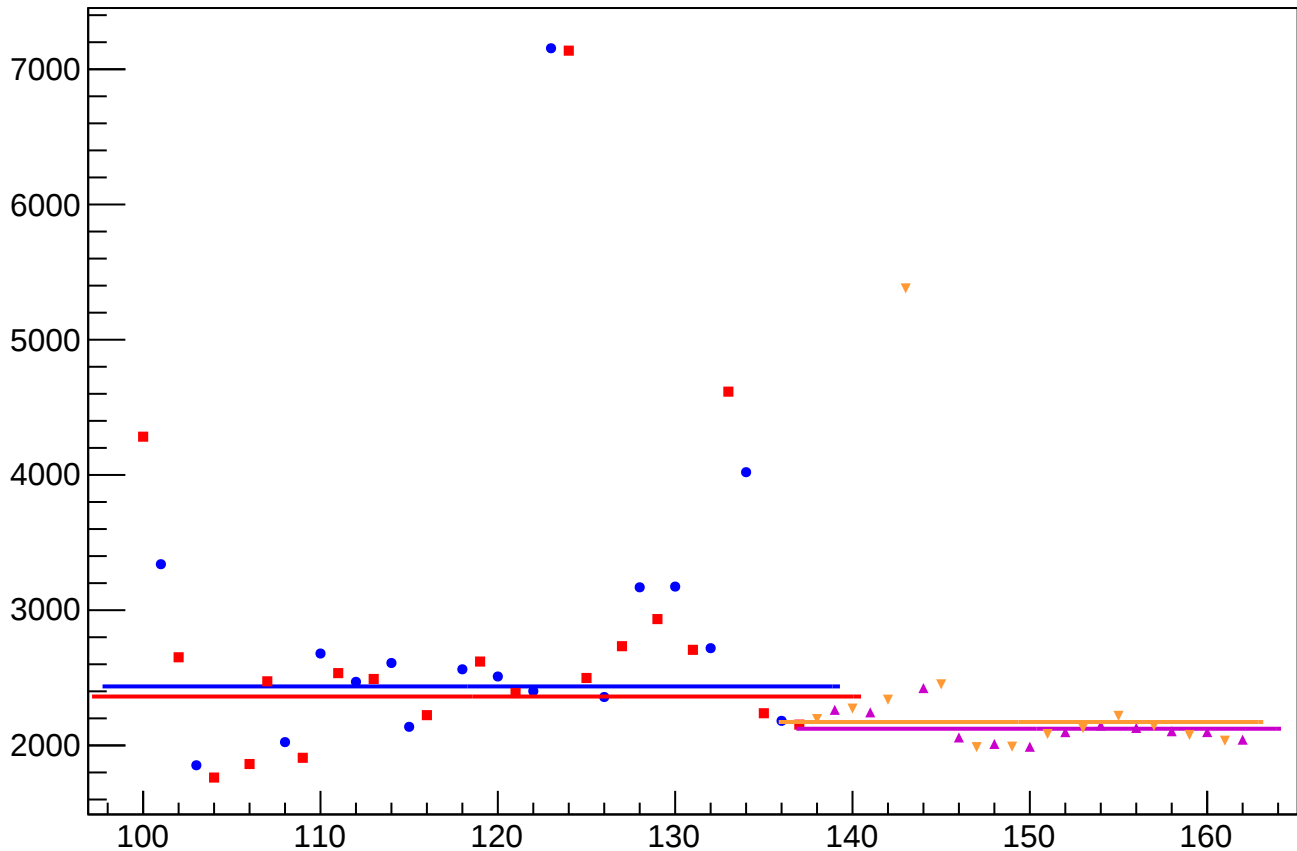
Right: 1073.549 $\pm$ 666.754  $\chi^2/\text{NDF}$ : 30.6/35

In: 645.534 $\pm$ 554.551  $\chi^2/\text{NDF}$ :28.3/28

Out: -662.665 $\pm$ 561.007  $\chi^2/\text{NDF}$ :29.0/31

All: -0.995 $\pm$ 394.389  $\chi^2/\text{NDF}$ : 60.0/60

# asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2436.256 $\pm$ 0.680  $\chi^2$ /NDF: 468552.3/16

Left Out: 2173.150 $\pm$ 0.499  $\chi^2$ /NDF: 541281.8/12

Right Out: 2361.558 $\pm$ 0.654  $\chi^2$ /NDF: 655845.9/18

Left In: 2123.355 $\pm$ 0.480  $\chi^2$ /NDF: 54940.2/11

Left: 2147.286 $\pm$ 0.346  $\chi^2$ /NDF: 601396.2/24

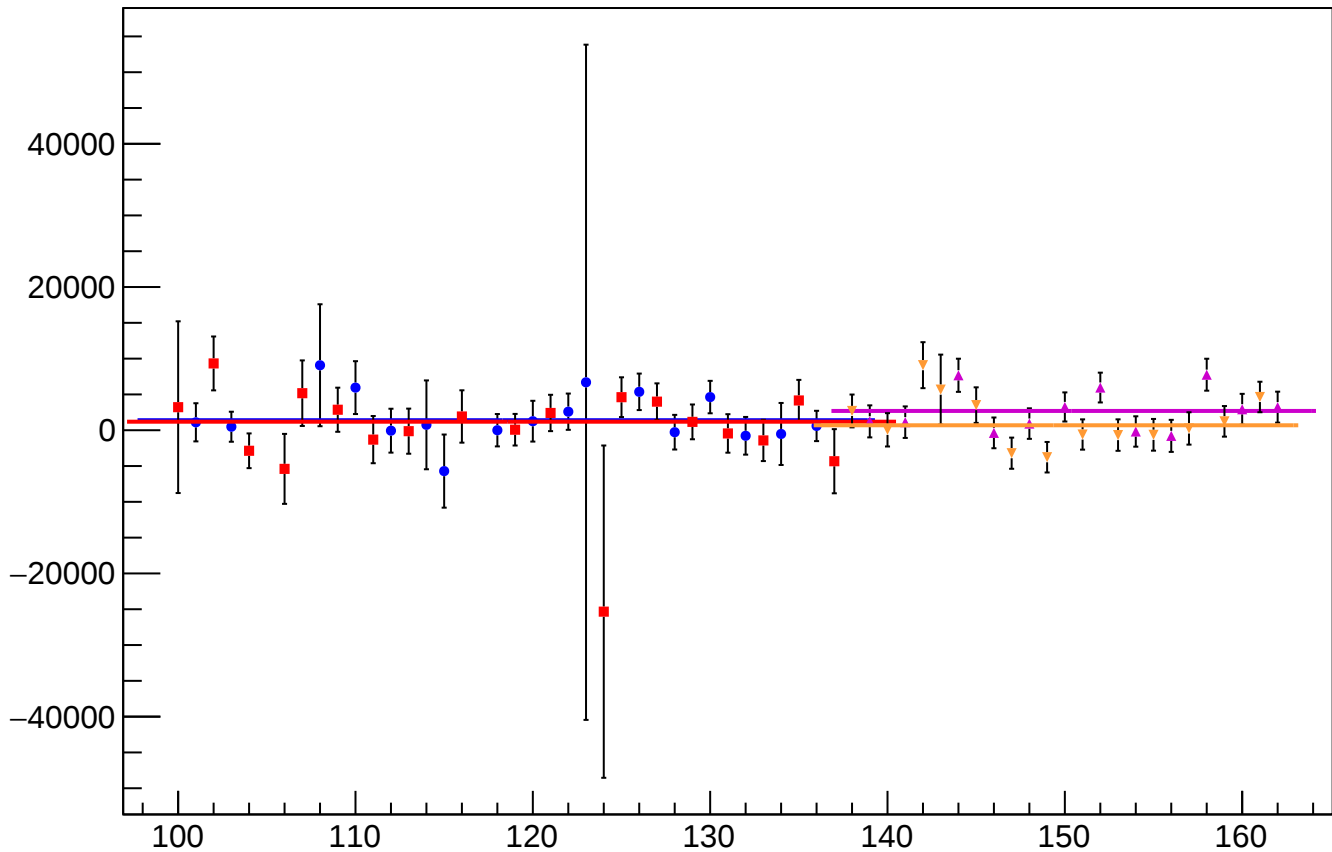
Right: 2397.448 $\pm$ 0.471  $\chi^2$ /NDF: 1130664.2/35

In: 2227.351 $\pm$ 0.392  $\chi^2$ /NDF: 664783.3/28

Out: 2242.449 $\pm$ 0.397  $\chi^2$ /NDF: 1249580.4/31

All: 2234.813 $\pm$ 0.279  $\chi^2$ /NDF: 1915096.4/60

# dit\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 1400.477+/-699.727  $\chi^2/\text{NDF}$ : 11.3/16

Left Out: 691.269+/-648.577  $\chi^2/\text{NDF}$ : 22.2/12

Right Out: 1191.720+/-715.266  $\chi^2/\text{NDF}$ : 19.5/18

Left In: 2693.701+/-625.590  $\chi^2/\text{NDF}$ : 20.3/11

Left: 1728.599+/-450.266  $\chi^2/\text{NDF}$ : 47.5/24

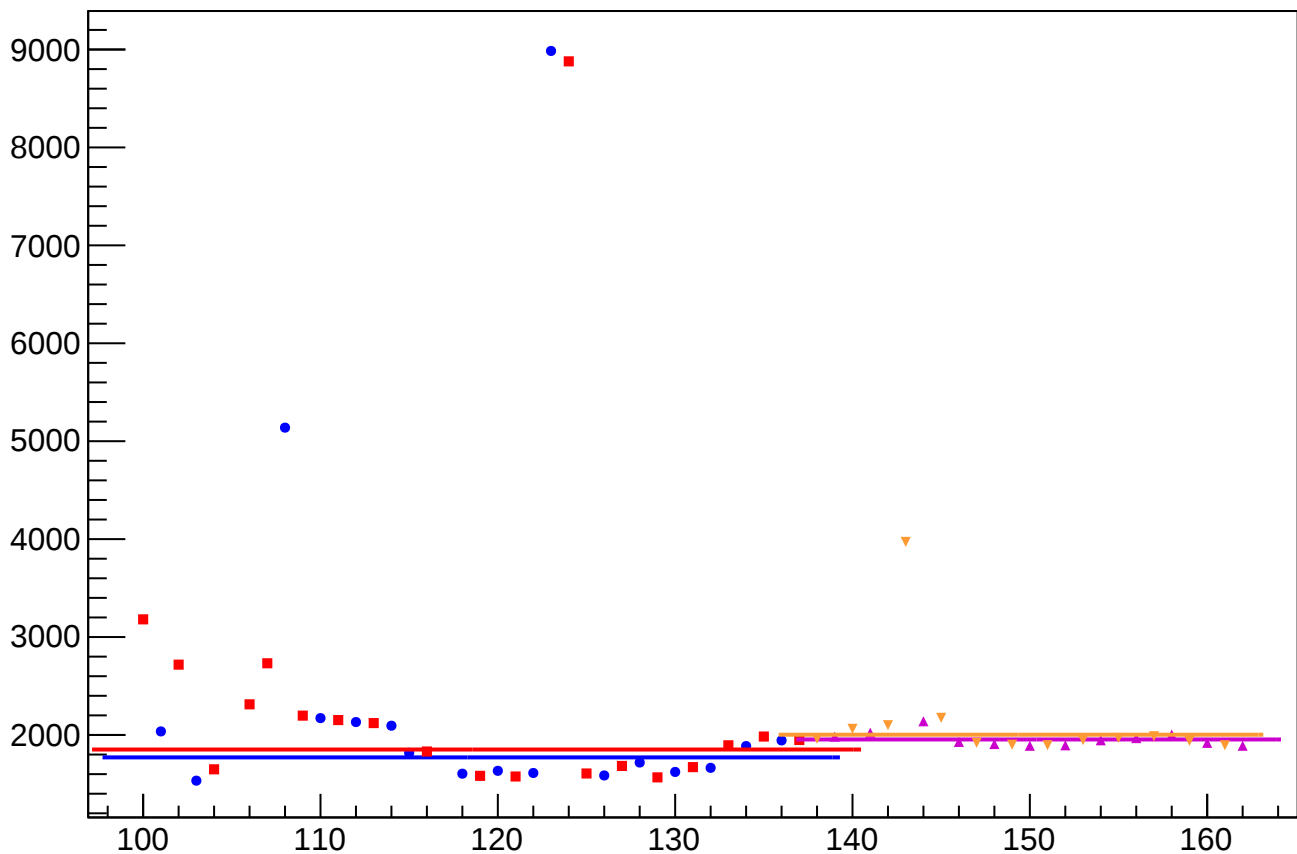
Right: 1298.390+/-500.185  $\chi^2/\text{NDF}$ : 30.8/35

In: 2119.206+/-466.375  $\chi^2/\text{NDF}$ : 33.5/28

Out: 917.082+/-480.464  $\chi^2/\text{NDF}$ : 42.0/31

All: 1536.028+/-334.647  $\chi^2/\text{NDF}$ : 78.7/60

# dit\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1770.964 $\pm$ 0.495  $\chi^2$ /NDF: 523586.3/16

Left Out: 2002.723 $\pm$ 0.459  $\chi^2$ /NDF: 359085.7/12

Right Out: 1851.378 $\pm$ 0.505  $\chi^2$ /NDF: 597933.6/18

Left In: 1954.011 $\pm$ 0.442  $\chi^2$ /NDF: 23479.5/11

Left: 1977.488 $\pm$ 0.318  $\chi^2$ /NDF: 388409.6/24

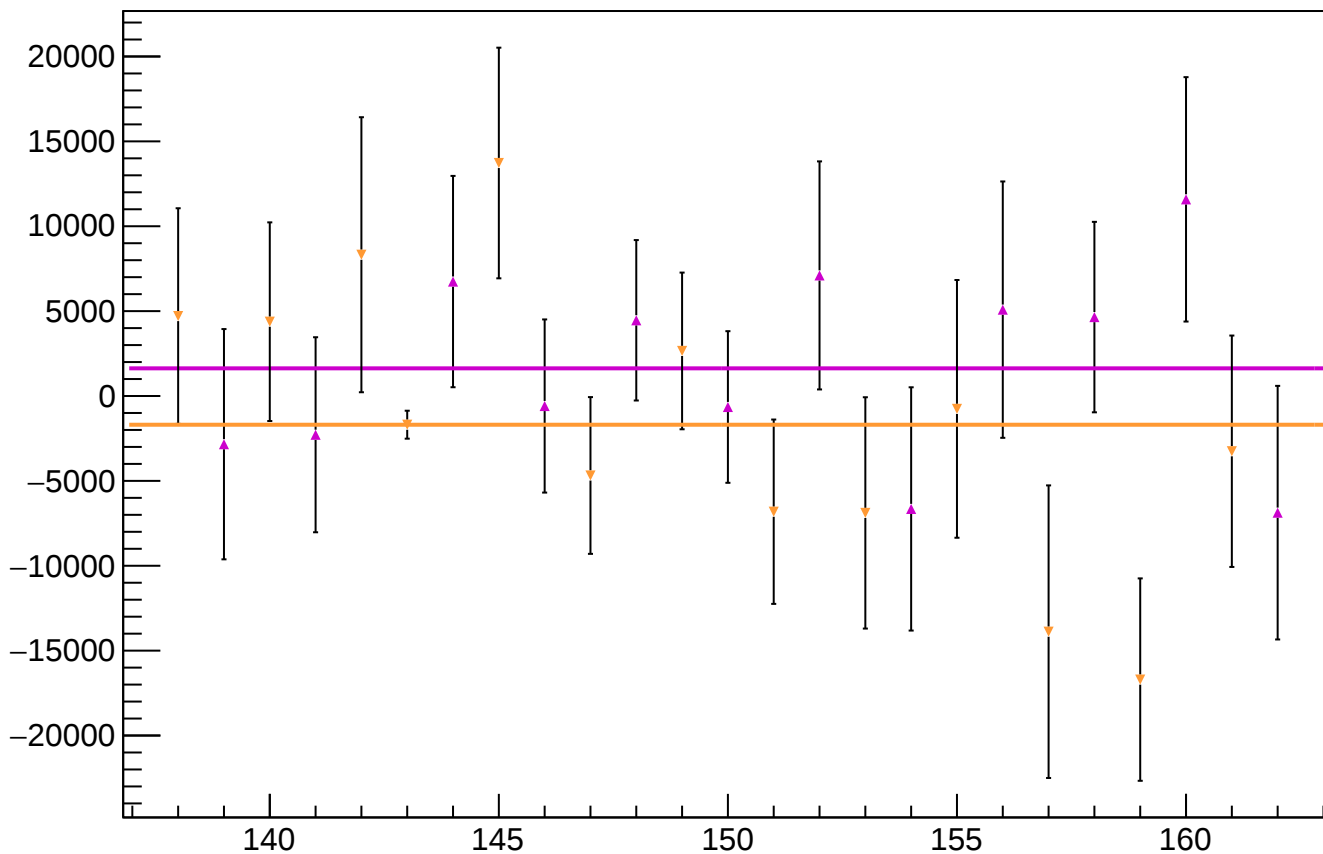
Right: 1810.335 $\pm$ 0.353  $\chi^2$ /NDF: 1134452.8/35

In: 1872.695 $\pm$ 0.330  $\chi^2$ /NDF: 623131.7/28

Out: 1934.345 $\pm$ 0.340  $\chi^2$ /NDF: 1006222.3/31

All: 1902.619 $\pm$ 0.237  $\chi^2$ /NDF: 1646317.6/60

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



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

Left Out: -1692.458+/-746.295  $\chi^2/\text{NDF}$ :20.0/12

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

Left In: 1629.248+/-1716.506  $\chi^2/\text{NDF}$ :8.1/11

Left: -1164.380+/-684.406  $\chi^2/\text{NDF}$ : 31.2/24

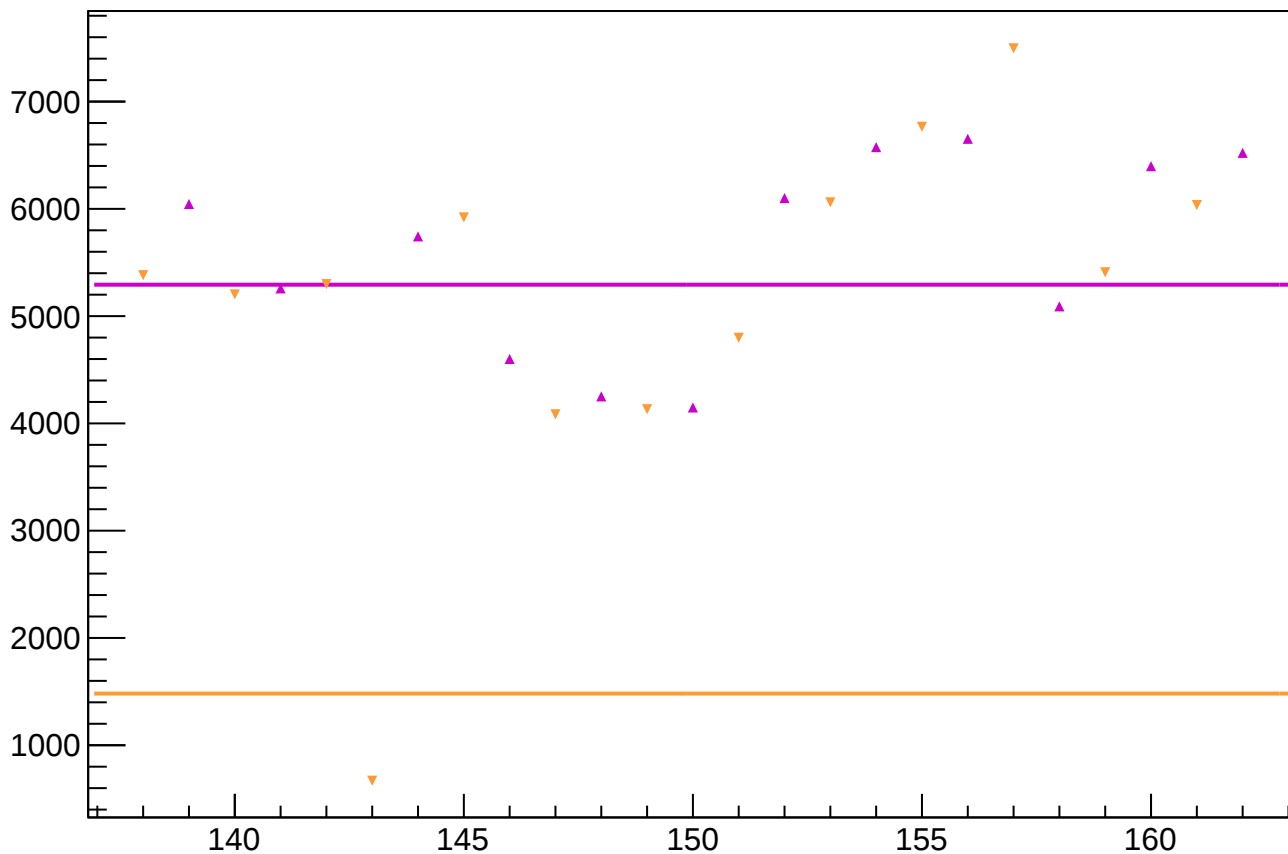
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1629.248+/-1716.506  $\chi^2/\text{NDF}$ :8.1/11

Out: -1692.458+/-746.295  $\chi^2/\text{NDF}$ :20.0/12

All: -1164.380+/-684.406  $\chi^2/\text{NDF}$ : 31.2/24

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



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

Left Out: 1481.725+/-0.528  $\chi^2/\text{NDF}$ :11457038.0/12

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

Left In: 5293.013+/-1.214  $\chi^2/\text{NDF}$ :562208.1/11

Left: 2087.636+/-0.484  $\chi^2/\text{NDF}$ : 20311836.8/24

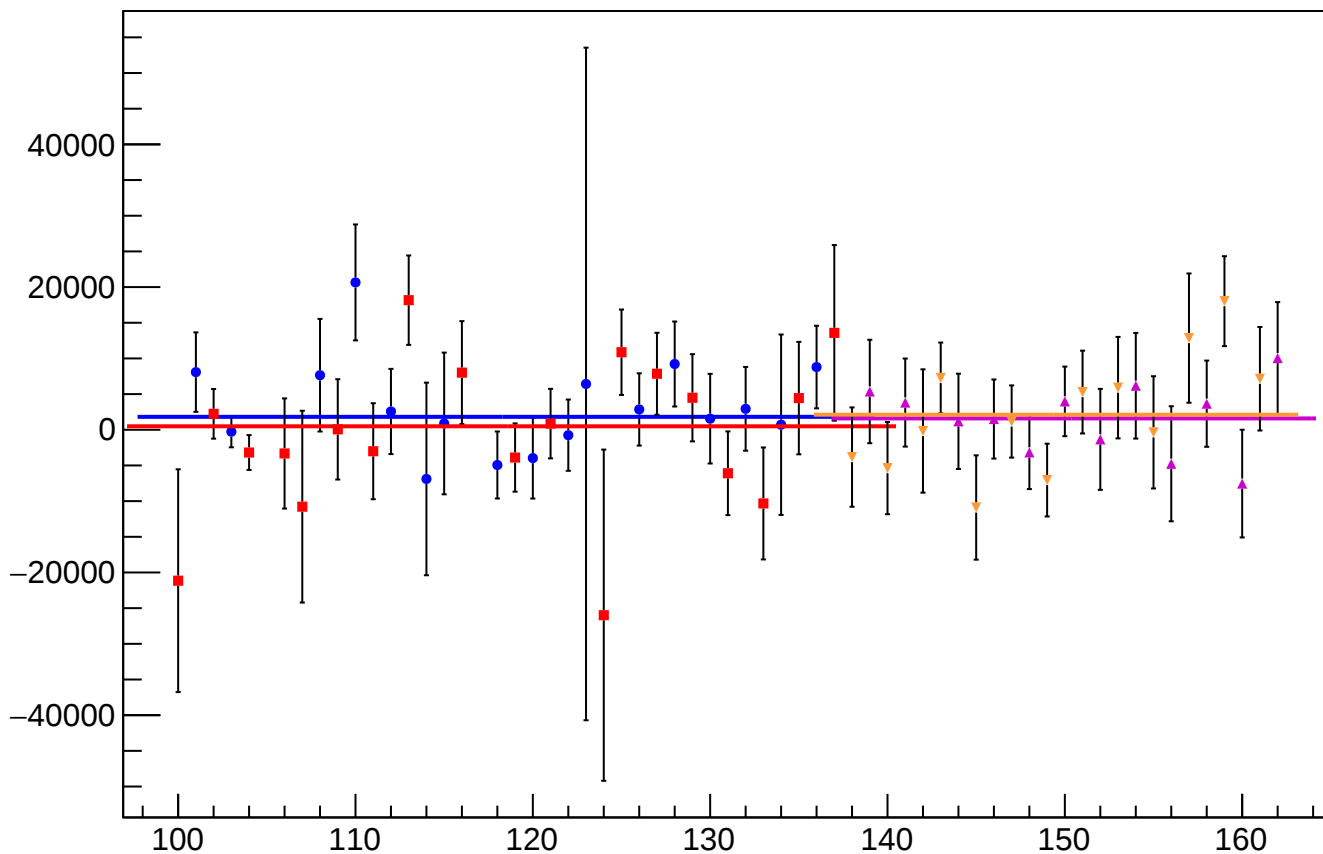
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5293.013+/-1.214  $\chi^2/\text{NDF}$ :562208.1/11

Out: 1481.725+/-0.528  $\chi^2/\text{NDF}$ :11457038.0/12

All: 2087.636+/-0.484  $\chi^2/\text{NDF}$ : 20311836.8/24

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



Right In: 1814.267+/-1301.312  $\chi^2/\text{NDF}$ : 15.0/16

Left Out: 2115.154+/-1776.382  $\chi^2/\text{NDF}$ : 18.6/12

Right Out: 488.360+/-1286.073  $\chi^2/\text{NDF}$ : 26.5/18

Left In: 1590.875+/-1841.596  $\chi^2/\text{NDF}$ : 5.4/11

Left: 1862.462+/-1278.525  $\chi^2/\text{NDF}$ : 24.1/24

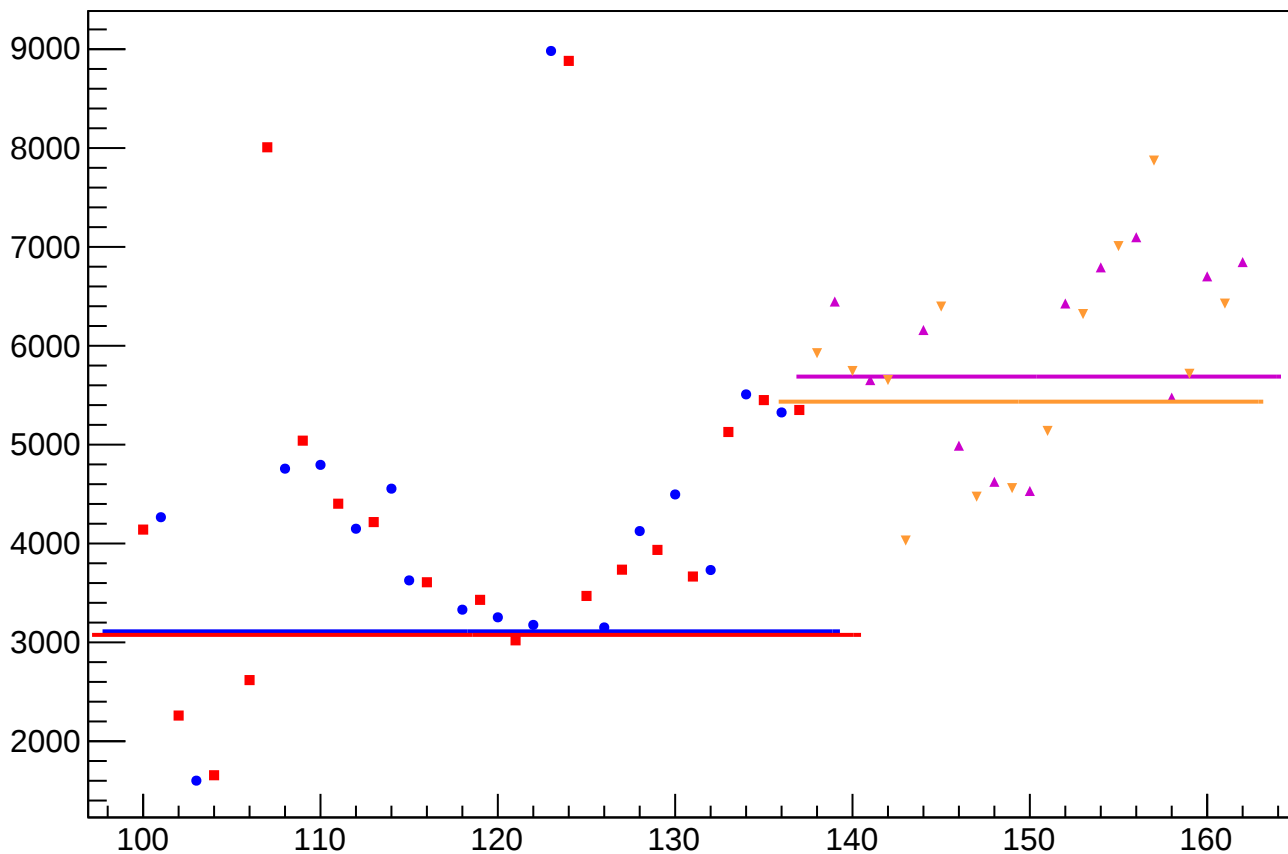
Right: 1143.505+/-914.731  $\chi^2/\text{NDF}$ : 42.0/35

In: 1739.871+/-1062.760  $\chi^2/\text{NDF}$ : 20.4/28

Out: 1047.812+/-1041.721  $\chi^2/\text{NDF}$ : 45.6/31

All: 1386.924+/-743.935  $\chi^2/\text{NDF}$ : 66.3/60

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



Right In: 3111.560+/-0.920  $\chi^2/\text{NDF}$ : 1878991.5/16

Left Out: 5434.768+/-1.256  $\chi^2/\text{NDF}$ : 644415.7/12

Right Out: 3075.800+/-0.896  $\chi^2/\text{NDF}$ : 2009557.4/18

Left In: 5688.319+/-1.302  $\chi^2/\text{NDF}$ : 471511.9/11

Left: 5556.975+/-0.904  $\chi^2/\text{NDF}$ : 1135566.6/24

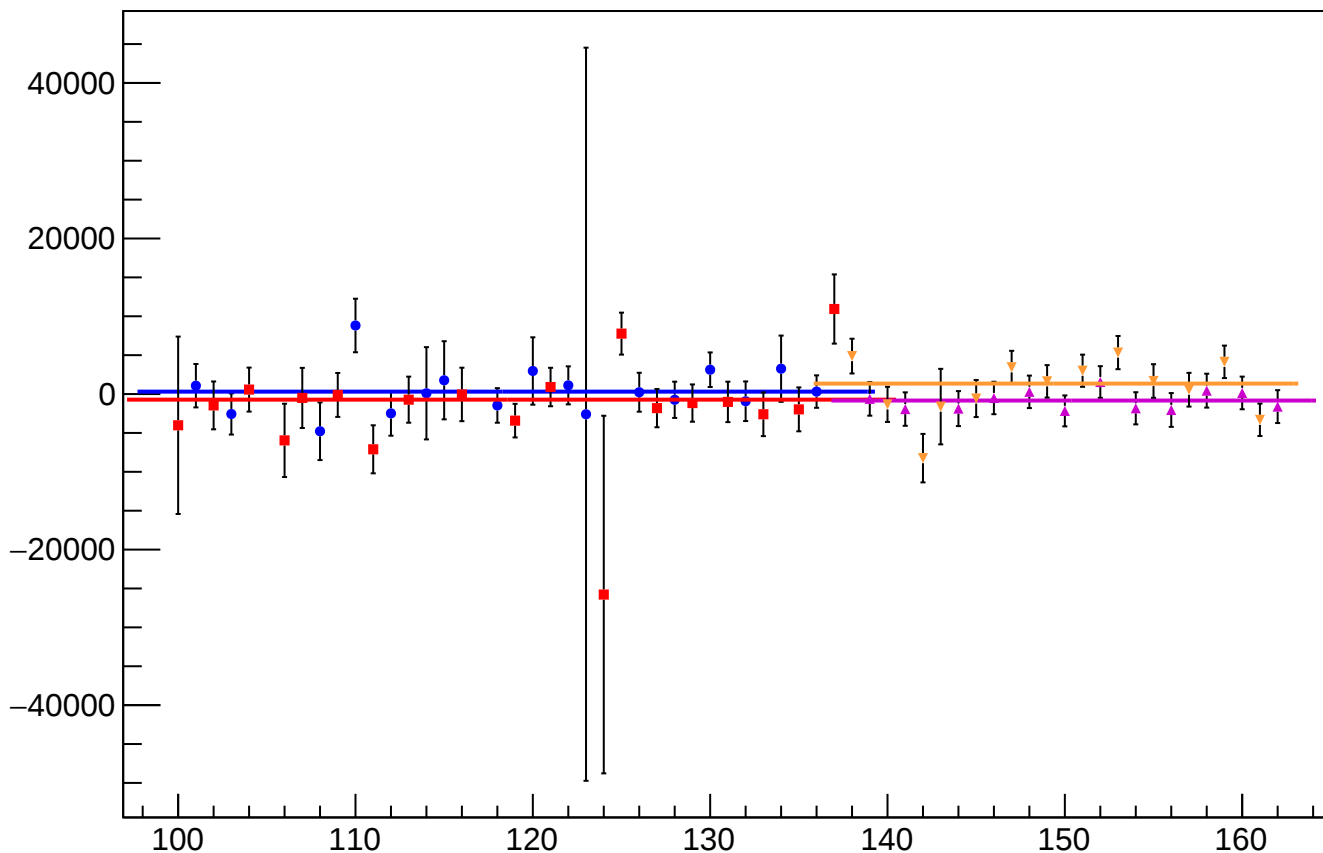
Right: 3093.209+/-0.642  $\chi^2/\text{NDF}$ : 3889323.9/35

In: 3969.689+/-0.751  $\chi^2/\text{NDF}$ : 4962051.0/28

Out: 3871.596+/-0.730  $\chi^2/\text{NDF}$ : 4991121.5/31

All: 3919.191+/-0.523  $\chi^2/\text{NDF}$ : 9961943.9/60

# dit\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In:  $310.890 \pm 702.491$   $\chi^2/\text{NDF}: 13.9/16$

Left Out:  $1345.117 \pm 631.209$   $\chi^2/\text{NDF}: 26.4/12$

Right Out:  $-720.015 \pm 692.327$   $\chi^2/\text{NDF}: 26.8/18$

Left In:  $-835.171 \pm 609.954$   $\chi^2/\text{NDF}: 3.8/11$

Left:  $217.647 \pm 438.624$   $\chi^2/\text{NDF}: 36.5/24$

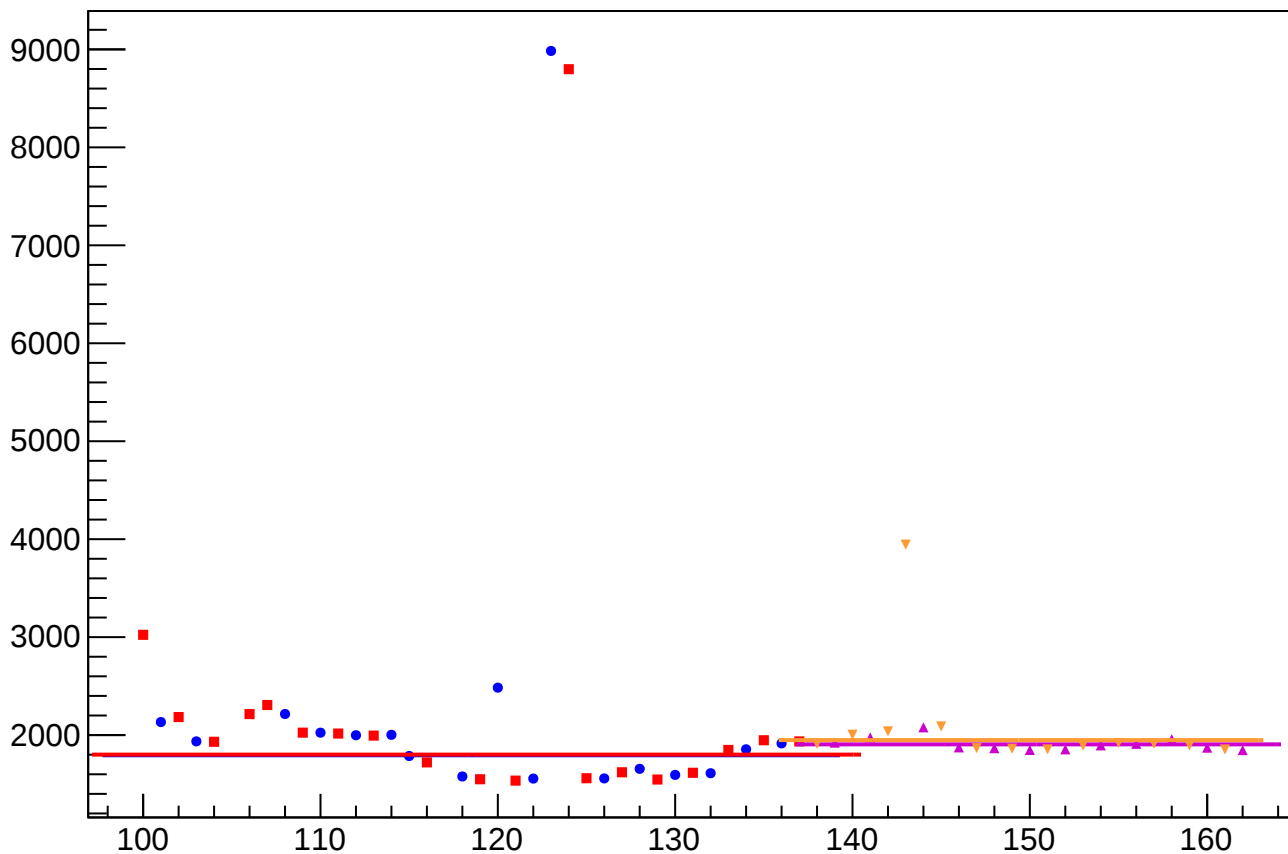
Right:  $-212.074 \pm 493.103$   $\chi^2/\text{NDF}: 41.8/35$

In:  $-342.547 \pm 460.569$   $\chi^2/\text{NDF}: 19.3/28$

Out:  $407.713 \pm 466.446$   $\chi^2/\text{NDF}: 58.1/31$

All:  $27.827 \pm 327.729$   $\chi^2/\text{NDF}: 78.7/60$

# dit\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1794.083+/-0.497  $\chi^2/\text{NDF}$ : 276685.7/16

Left Out: 1948.880+/-0.446  $\chi^2/\text{NDF}$ : 366608.8/12

Right Out: 1800.745+/-0.489  $\chi^2/\text{NDF}$ : 444850.1/18

Left In: 1905.473+/-0.431  $\chi^2/\text{NDF}$ : 21573.0/11

Left: 1926.433+/-0.310  $\chi^2/\text{NDF}$ : 393072.9/24

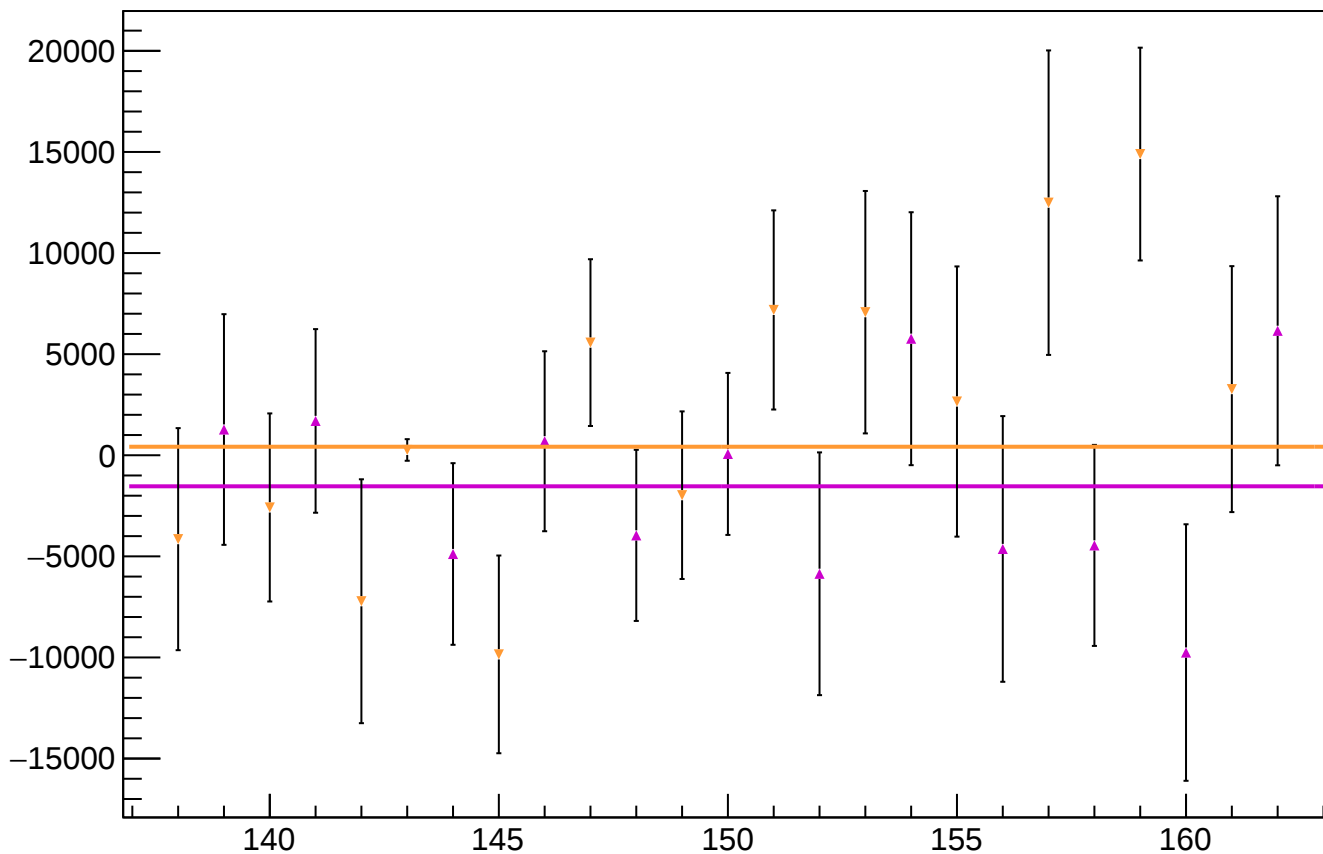
Right: 1797.467+/-0.348  $\chi^2/\text{NDF}$ : 721627.3/35

In: 1857.593+/-0.326  $\chi^2/\text{NDF}$ : 326929.5/28

Out: 1881.525+/-0.330  $\chi^2/\text{NDF}$ : 861544.4/31

All: 1869.415+/-0.232  $\chi^2/\text{NDF}$ : 1191141.7/60

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



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

Left Out: 421.434+/-503.422  $\chi^2/\text{NDF}$ : 22.7/12

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

Left In: -1535.580+/-1471.481  $\chi^2/\text{NDF}$ : 7.5/11

Left: 216.375+/-476.318  $\chi^2/\text{NDF}$ : 31.8/24

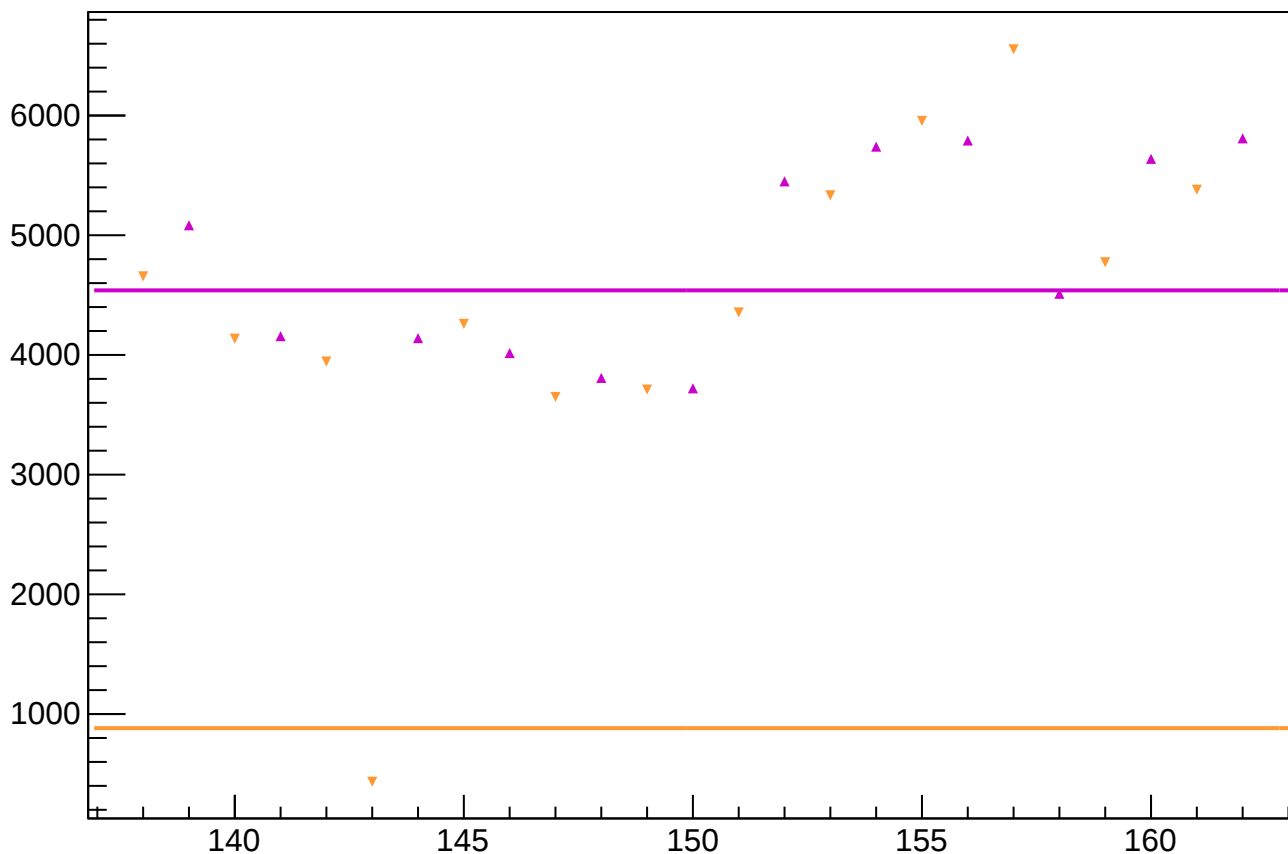
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1535.580+/-1471.481  $\chi^2/\text{NDF}$ : 7.5/11

Out: 421.434+/-503.422  $\chi^2/\text{NDF}$ : 22.7/12

All: 216.375+/-476.318  $\chi^2/\text{NDF}$ : 31.8/24

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



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

Left Out: 882.292+/-0.356  $\chi^2/\text{NDF}$ :13204650.4/12

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

Left In: 4539.391+/-1.040  $\chi^2/\text{NDF}$ :544331.1/11

Left: 1265.488+/-0.337  $\chi^2/\text{NDF}$ : 24808171.2/24

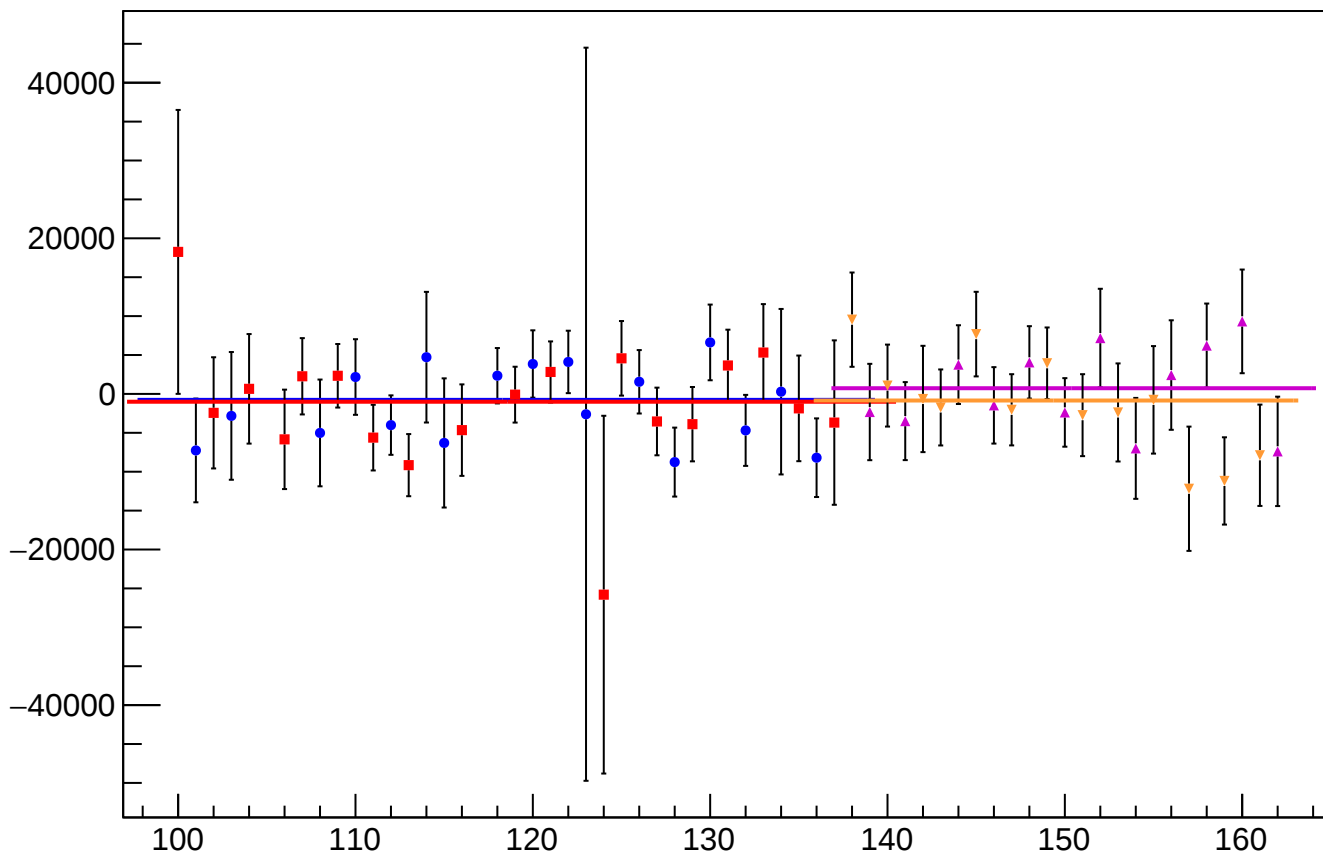
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4539.391+/-1.040  $\chi^2/\text{NDF}$ :544331.1/11

Out: 882.292+/-0.356  $\chi^2/\text{NDF}$ :13204650.4/12

All: 1265.488+/-0.337  $\chi^2/\text{NDF}$ : 24808171.2/24

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



Right In: -765.107+/-1247.704  $\chi^2/\text{NDF}$ : 15.5/16

Left Out: -847.918+/-1564.241  $\chi^2/\text{NDF}$ : 13.5/12

Right Out: -1004.792+/-1191.116  $\chi^2/\text{NDF}$ : 15.0/18

Left In: 731.061+/-1601.556  $\chi^2/\text{NDF}$ : 9.1/11

Left: -77.037+/-1119.045  $\chi^2/\text{NDF}$ : 23.0/24

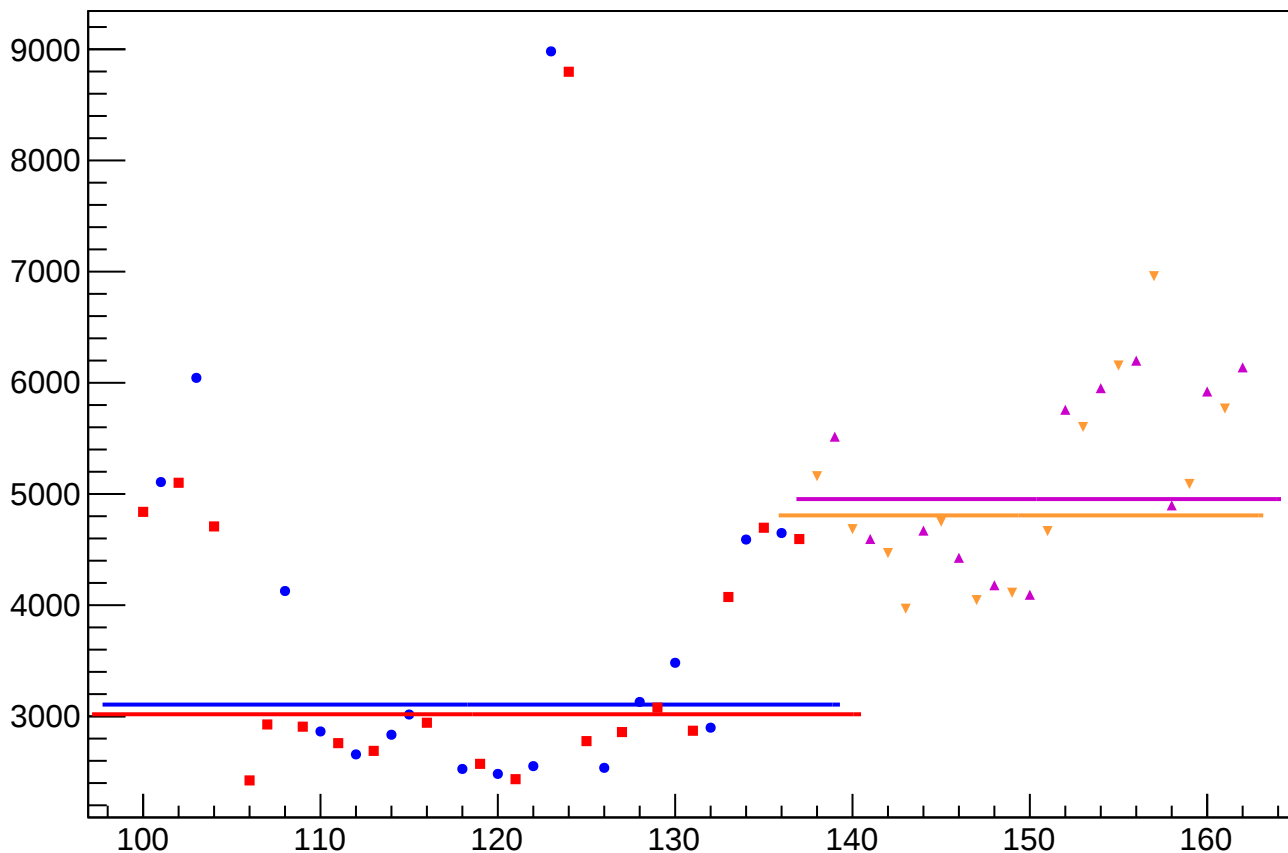
Right: -890.508+/-861.557  $\chi^2/\text{NDF}$ : 30.6/35

In: -200.012+/-984.267  $\chi^2/\text{NDF}$ : 25.1/28

Out: -947.216+/-947.652  $\chi^2/\text{NDF}$ : 28.5/31

All: -587.770+/-682.669  $\chi^2/\text{NDF}$ : 53.9/60

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



Right In: 3105.849+/-0.882  $\chi^2/\text{NDF}$ : 959826.4/16

Left Out: 4807.598+/-1.106  $\chi^2/\text{NDF}$ : 476433.0/12

Right Out: 3018.781+/-0.832  $\chi^2/\text{NDF}$ : 794275.0/18

Left In: 4954.165+/-1.132  $\chi^2/\text{NDF}$ : 429069.4/11

Left: 4879.154+/-0.791  $\chi^2/\text{NDF}$ : 914074.9/24

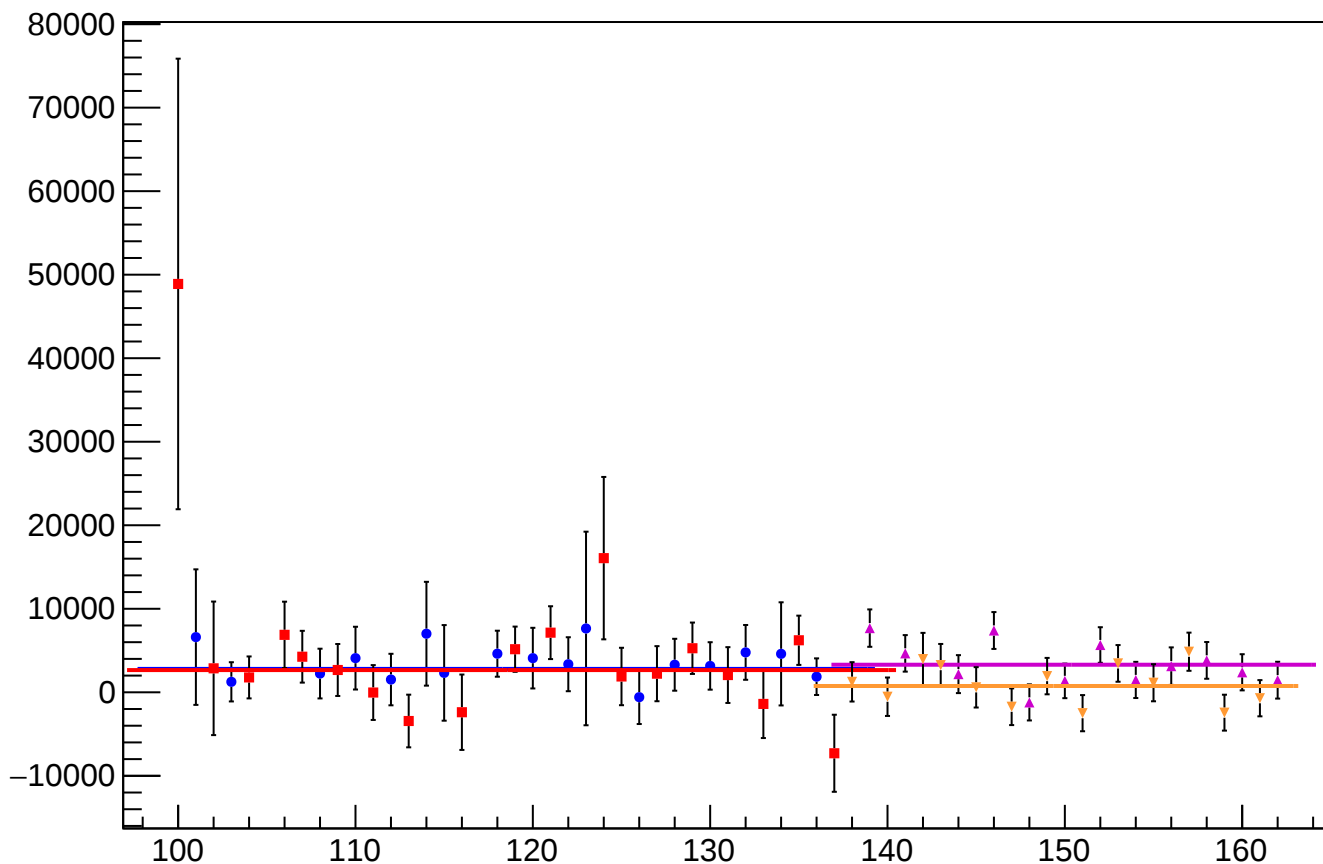
Right: 3059.752+/-0.605  $\chi^2/\text{NDF}$ : 1759257.8/35

In: 3803.946+/-0.696  $\chi^2/\text{NDF}$ : 3046582.8/28

Out: 3664.933+/-0.665  $\chi^2/\text{NDF}$ : 2941442.6/31

All: 3731.253+/-0.481  $\chi^2/\text{NDF}$ : 6008887.4/60

# dit\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 2800.286+/-815.307  $\chi^2/\text{NDF}$ : 4.0/16

Left Out: 755.024+/-637.628  $\chi^2/\text{NDF}$ :13.7/12

Right Out: 2660.424+/-808.554  $\chi^2/\text{NDF}$ : 22.8/18

Left In: 3301.218+/-630.783  $\chi^2/\text{NDF}$ :16.0/11

Left: 2041.862+/-448.431  $\chi^2/\text{NDF}$ : 37.7/24

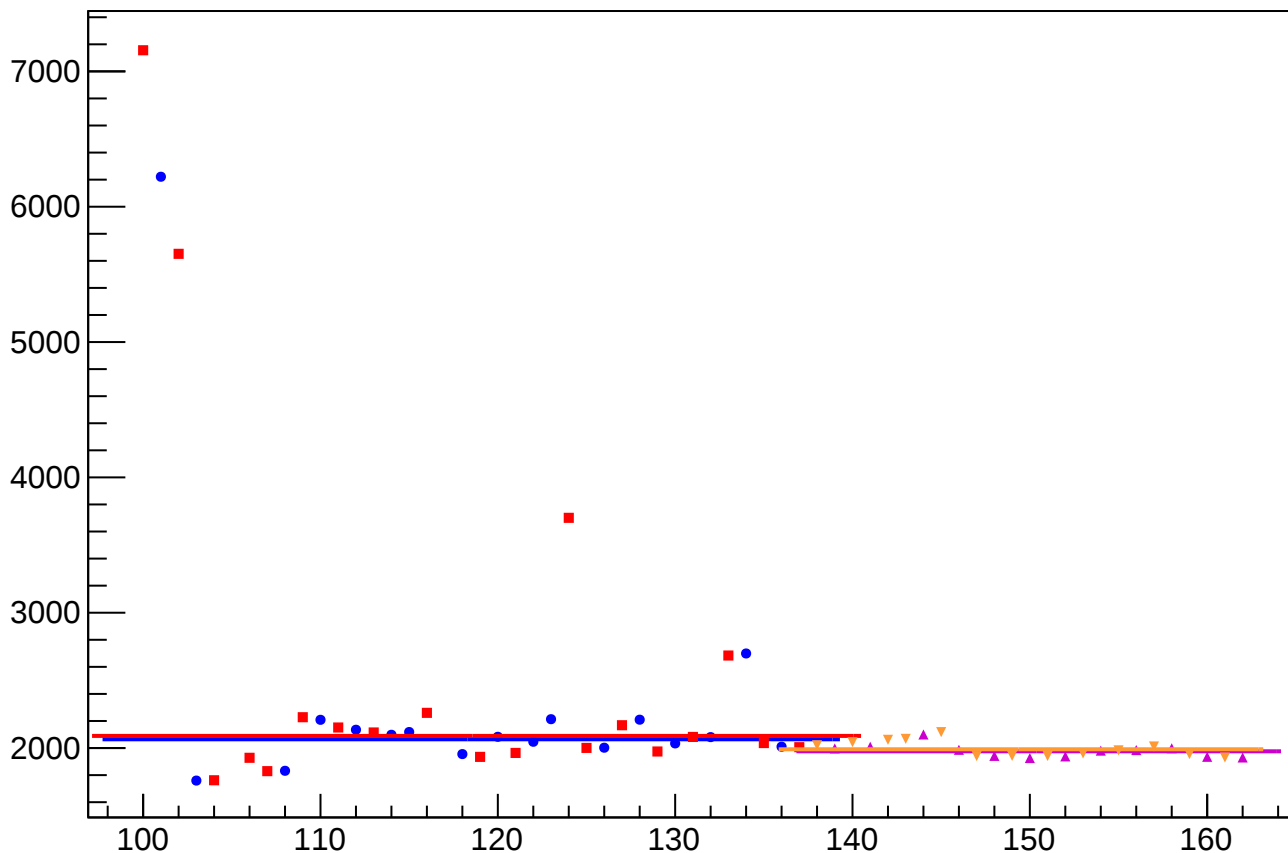
Right: 2729.773+/-574.107  $\chi^2/\text{NDF}$ : 26.8/35

In: 3113.648+/-498.900  $\chi^2/\text{NDF}$ :20.3/28

Out: 1485.626+/-500.675  $\chi^2/\text{NDF}$ :39.9/31

All: 2302.528+/-353.402  $\chi^2/\text{NDF}$ : 65.4/60

# dit\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 2064.706+/-0.577  $\chi^2/\text{NDF}$ : 606406.5/16

Left Out: 1991.042+/-0.451  $\chi^2/\text{NDF}$ :15492.8/12

Right Out: 2089.787+/-0.572  $\chi^2/\text{NDF}$ : 640582.7/18

Left In: 1976.029+/-0.446  $\chi^2/\text{NDF}$ :10756.3/11

Left: 1983.455+/-0.317  $\chi^2/\text{NDF}$ : 26809.5/24

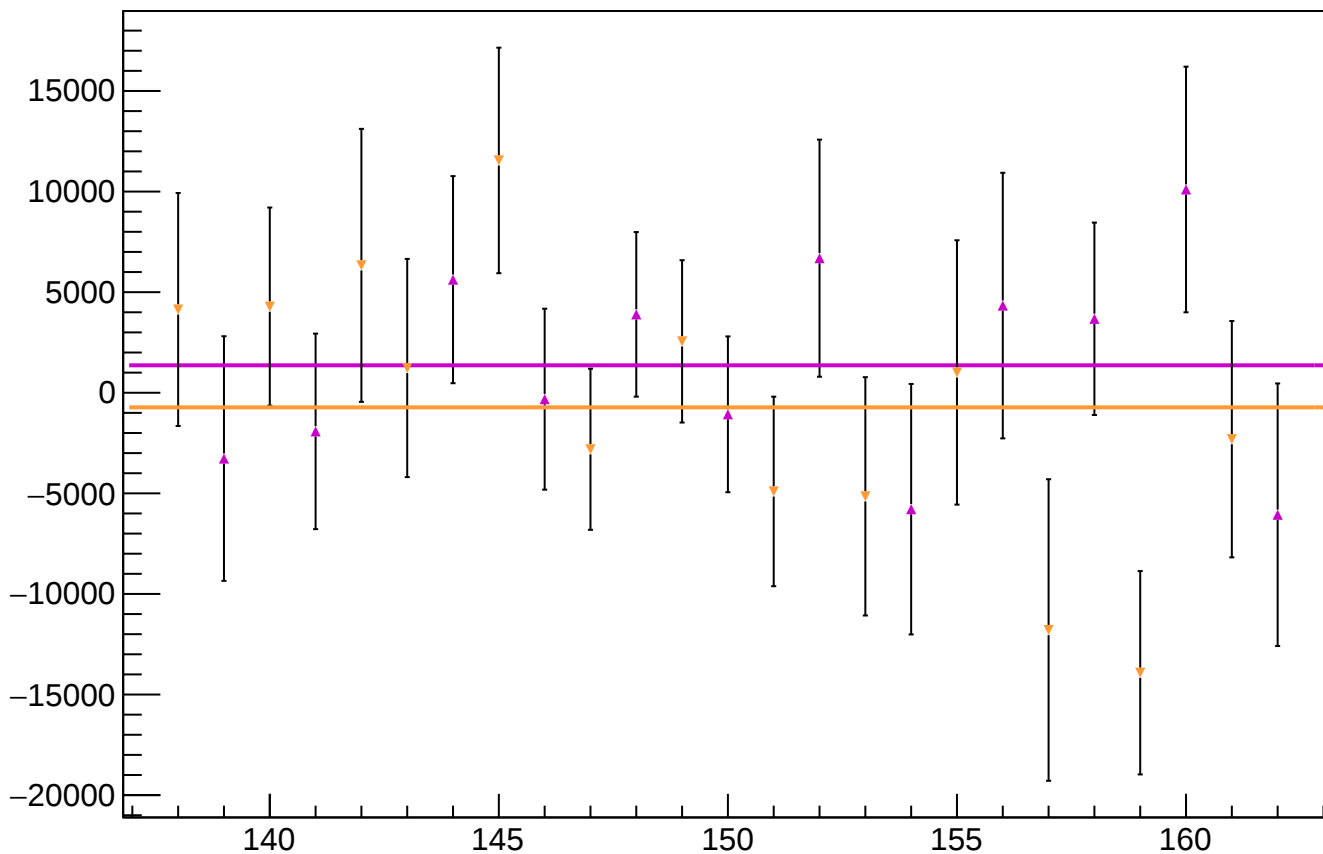
Right: 2077.355+/-0.406  $\chi^2/\text{NDF}$ : 1247943.7/35

In: 2009.233+/-0.353  $\chi^2/\text{NDF}$ :631963.3/28

Out: 2028.921+/-0.354  $\chi^2/\text{NDF}$ :674475.1/31

All: 2019.044+/-0.250  $\chi^2/\text{NDF}$ : 1307990.4/60

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



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

Left Out: -725.311+/-1466.368  $\chi^2/\text{NDF}$ :19.2/12

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

Left In: 1364.351+/-1483.103  $\chi^2/\text{NDF}$ :8.6/11

Left: 307.663+/-1042.745  $\chi^2/\text{NDF}$ : 28.7/24

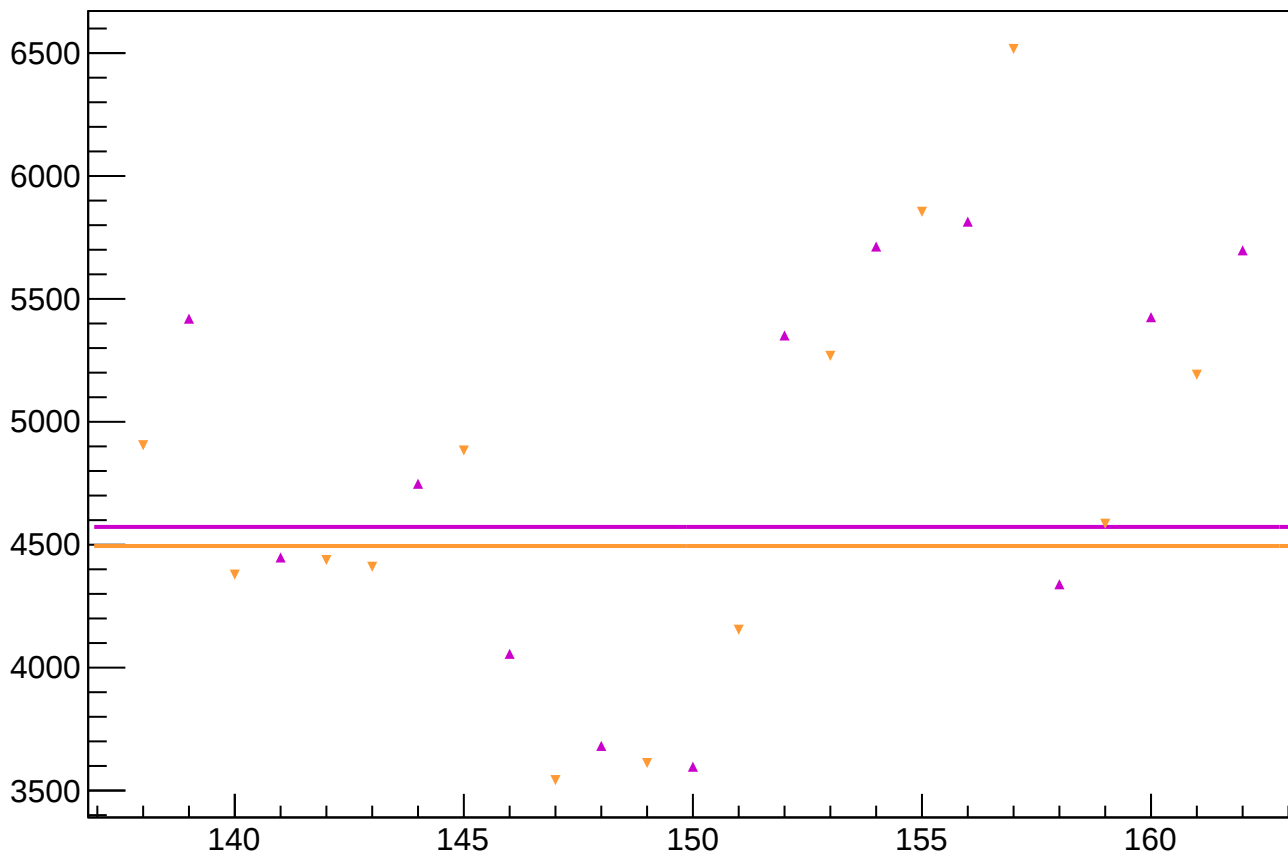
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1364.351+/-1483.103  $\chi^2/\text{NDF}$ :8.6/11

Out: -725.311+/-1466.368  $\chi^2/\text{NDF}$ :19.2/12

All: 307.663+/-1042.745  $\chi^2/\text{NDF}$ : 28.7/24

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



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

Left Out: 4494.729+/-1.037  $\chi^2/\text{NDF}$ :534844.7/12

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

Left In: 4572.408+/-1.049  $\chi^2/\text{NDF}$ :566745.0/11

Left: 4533.128+/-0.737  $\chi^2/\text{NDF}$ : 1104364.1/24

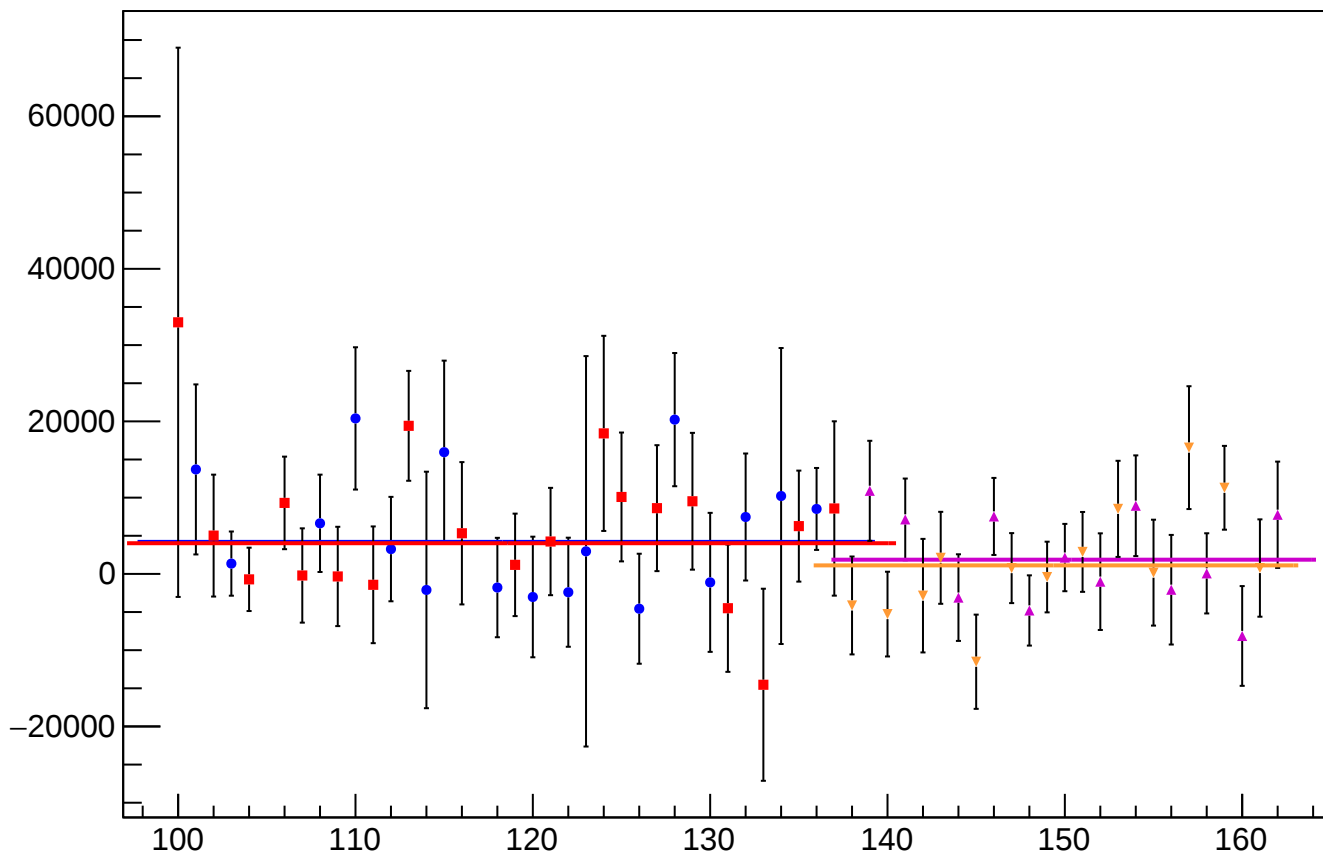
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4572.408+/-1.049  $\chi^2/\text{NDF}$ :566745.0/11

Out: 4494.729+/-1.037  $\chi^2/\text{NDF}$ :534844.7/12

All: 4533.128+/-0.737  $\chi^2/\text{NDF}$ : 1104364.1/24

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



Right In: 4198.770+/-1857.803  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 1117.535+/-1626.507  $\chi^2/\text{NDF}$ : 15.2/12

Right Out: 4023.682+/-1725.187  $\chi^2/\text{NDF}$ : 14.8/18

Left In: 1864.484+/-1634.632  $\chi^2/\text{NDF}$ : 11.8/11

Left: 1489.148+/-1152.976  $\chi^2/\text{NDF}$ : 27.1/24

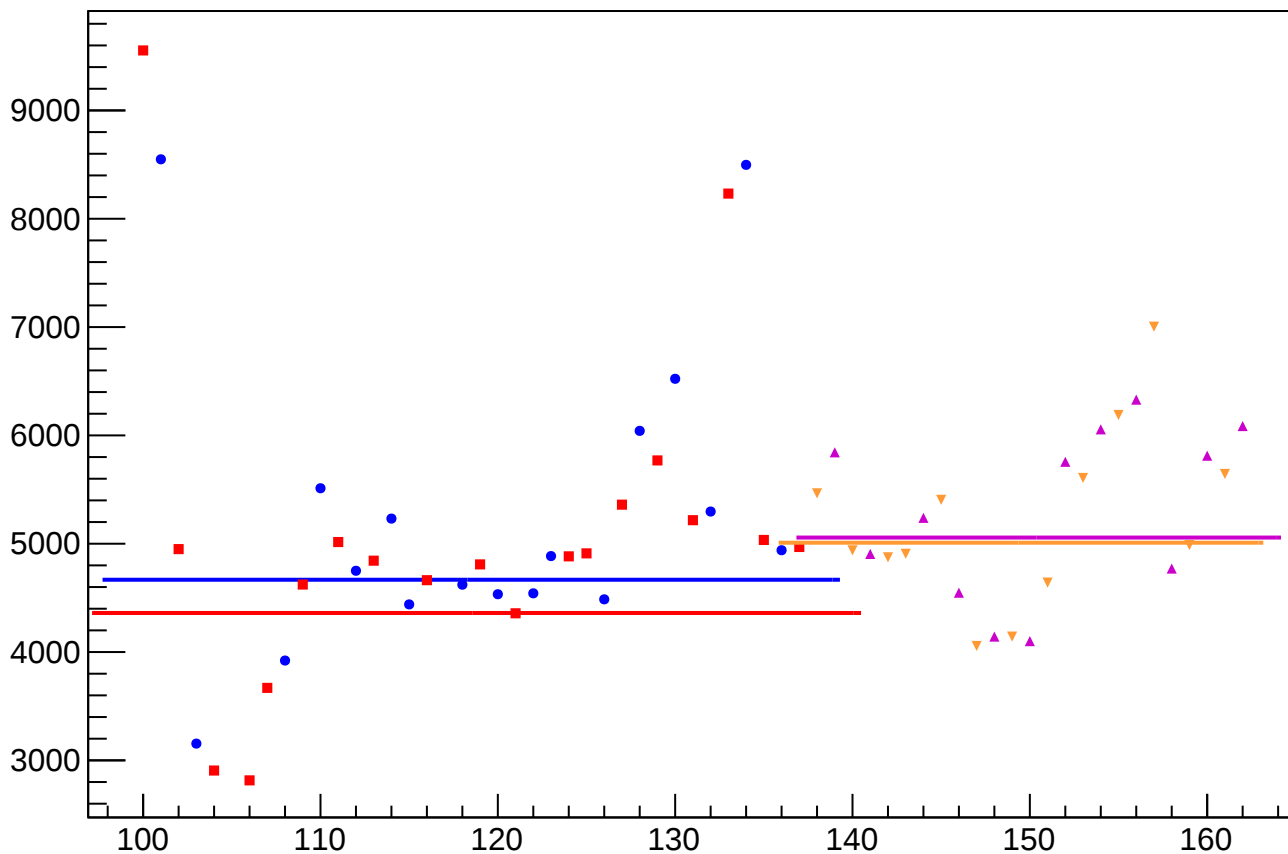
Right: 4104.755+/-1264.177  $\chi^2/\text{NDF}$ : 29.0/35

In: 2883.070+/-1227.217  $\chi^2/\text{NDF}$ : 26.8/28

Out: 2485.120+/-1183.463  $\chi^2/\text{NDF}$ : 31.6/31

All: 2676.875+/-851.883  $\chi^2/\text{NDF}$ : 58.4/60

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



Right In: 4667.470 $\pm$ 1.314  $\chi^2$ /NDF: 777857.9/16

Left Out: 5009.327 $\pm$ 1.150  $\chi^2$ /NDF: 404213.1/12

Right Out: 4360.582 $\pm$ 1.213  $\chi^2$ /NDF: 832745.2/18

Left In: 5056.963 $\pm$ 1.156  $\chi^2$ /NDF: 434697.4/11

Left: 5033.026 $\pm$ 0.815  $\chi^2$ /NDF: 839763.9/24

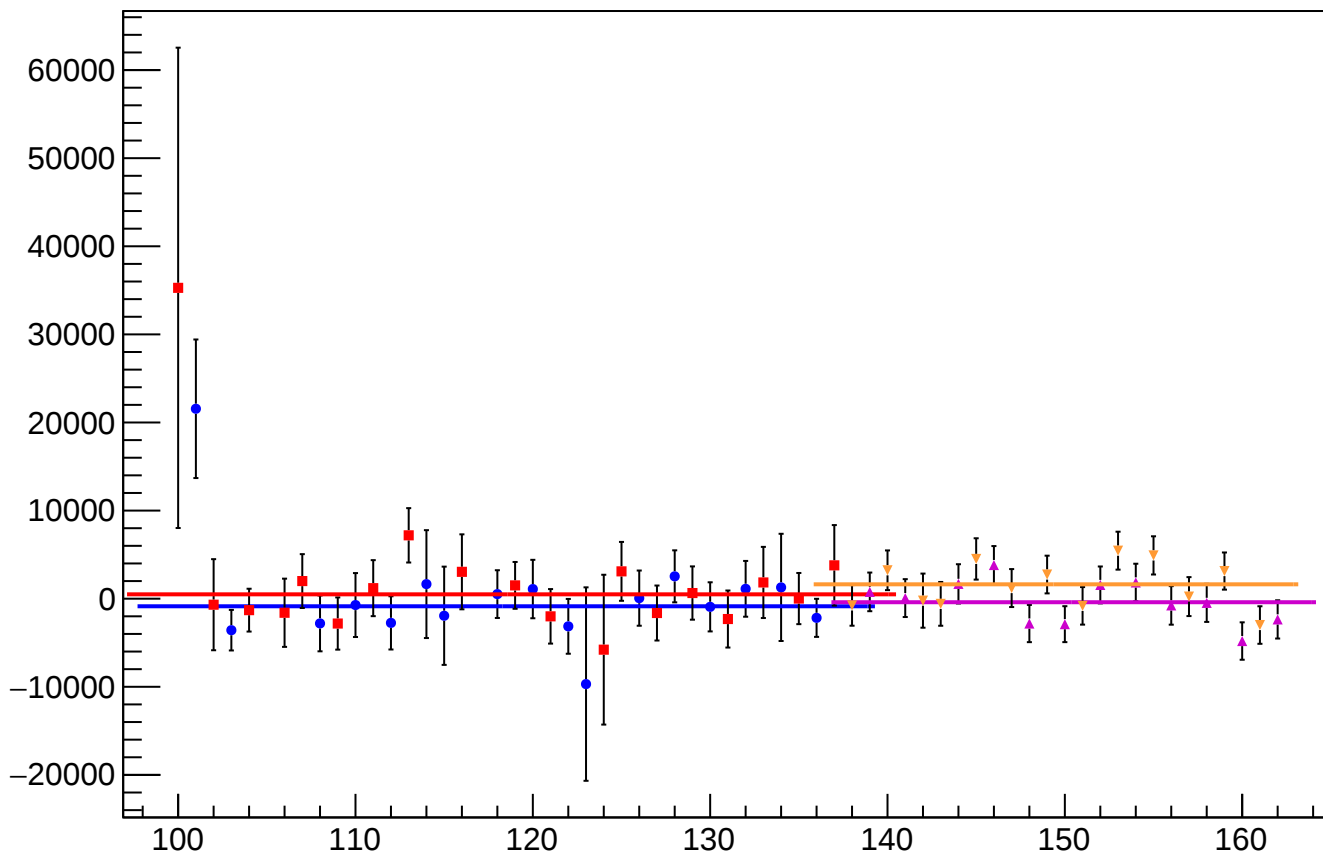
Right: 4501.800 $\pm$ 0.891  $\chi^2$ /NDF: 1640064.7/35

In: 4887.004 $\pm$ 0.868  $\chi^2$ /NDF: 1262103.9/28

Out: 4702.166 $\pm$ 0.835  $\chi^2$ /NDF: 1387604.7/31

All: 4790.979 $\pm$ 0.602  $\chi^2$ /NDF: 2673278.8/60

# dit\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: -860.655+/-797.010  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: 1632.072+/-624.140  $\chi^2/\text{NDF}$ : 16.9/12

Right Out: 495.139+/-780.927  $\chi^2/\text{NDF}$ : 13.0/18

Left In: -401.067+/-618.740  $\chi^2/\text{NDF}$ : 15.0/11

Left: 606.669+/-439.412  $\chi^2/\text{NDF}$ : 37.3/24

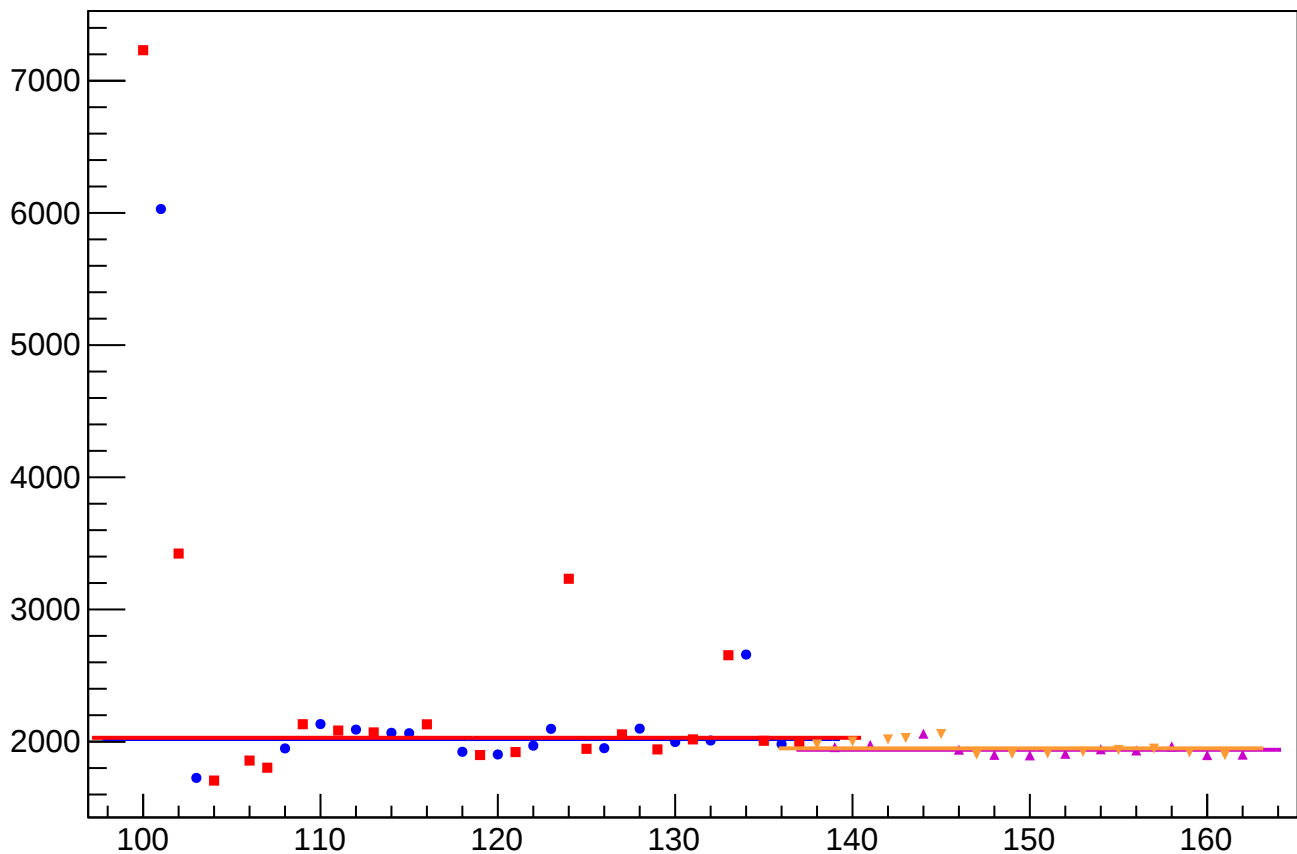
Right: -168.941+/-557.798  $\chi^2/\text{NDF}$ : 29.0/35

In: -573.893+/-488.747  $\chi^2/\text{NDF}$ : 29.8/28

Out: 1188.912+/-487.555  $\chi^2/\text{NDF}$ : 31.2/31

All: 309.663+/-345.174  $\chi^2/\text{NDF}$ : 67.5/60

# dit\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 2019.624+/-0.564  $\chi^2/\text{NDF}$ : 587843.0/16

Left Out: 1949.150+/-0.441  $\chi^2/\text{NDF}$ : 12912.1/12

Right Out: 2028.987+/-0.551  $\chi^2/\text{NDF}$ : 371968.1/18

Left In: 1938.418+/-0.438  $\chi^2/\text{NDF}$ : 10220.4/11

Left: 1943.737+/-0.311  $\chi^2/\text{NDF}$ : 23430.8/24

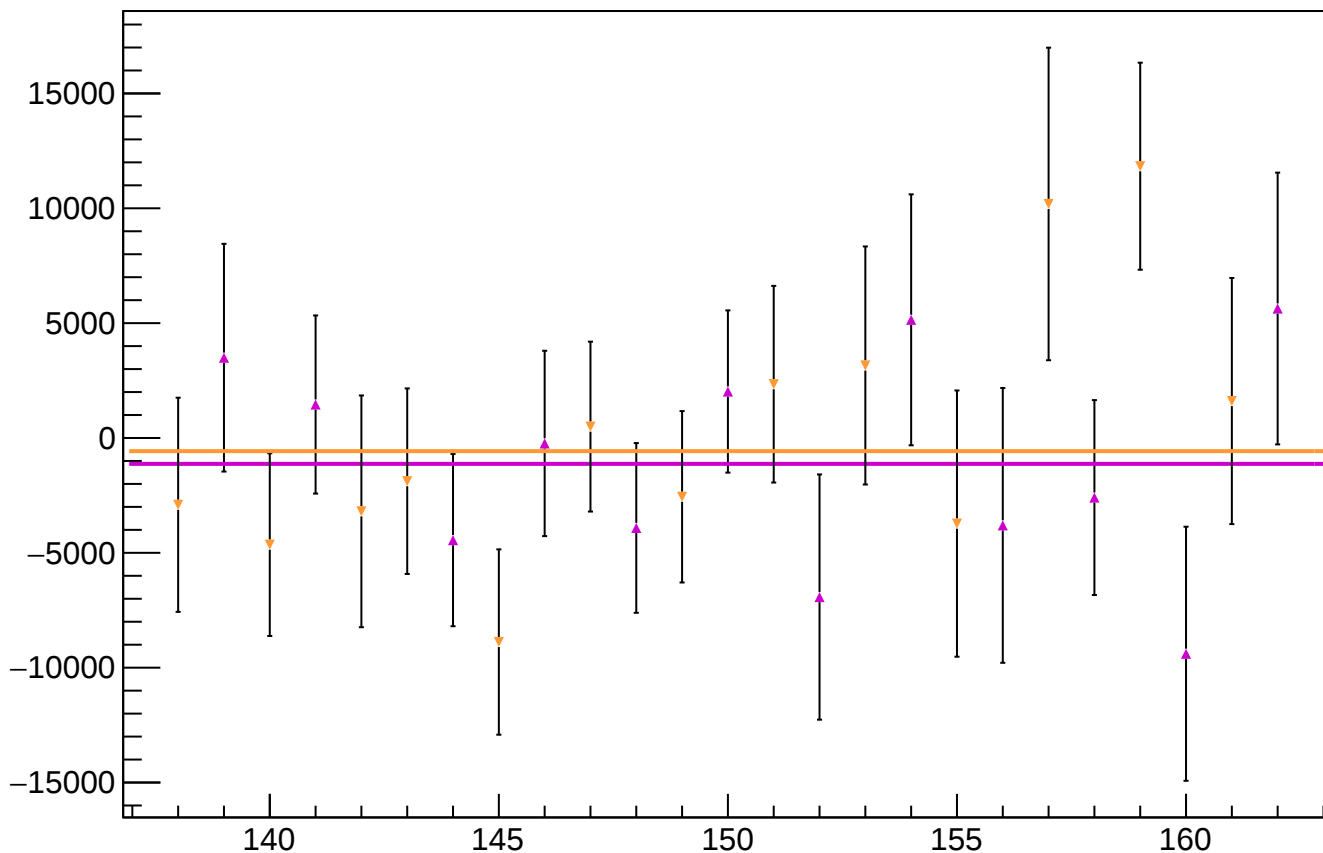
Right: 2024.407+/-0.394  $\chi^2/\text{NDF}$ : 959952.1/35

In: 1968.955+/-0.346  $\chi^2/\text{NDF}$ : 611018.4/28

Out: 1980.318+/-0.345  $\chi^2/\text{NDF}$ : 397656.0/31

All: 1974.653+/-0.244  $\chi^2/\text{NDF}$ : 1009216.6/60

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



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

Left Out: -572.500+/-1246.653  $\chi^2/\text{NDF}$ :17.8/12

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

Left In: -1126.750+/-1283.999  $\chi^2/\text{NDF}$ :9.9/11

Left: -841.447+/-894.428  $\chi^2/\text{NDF}$ : 27.8/24

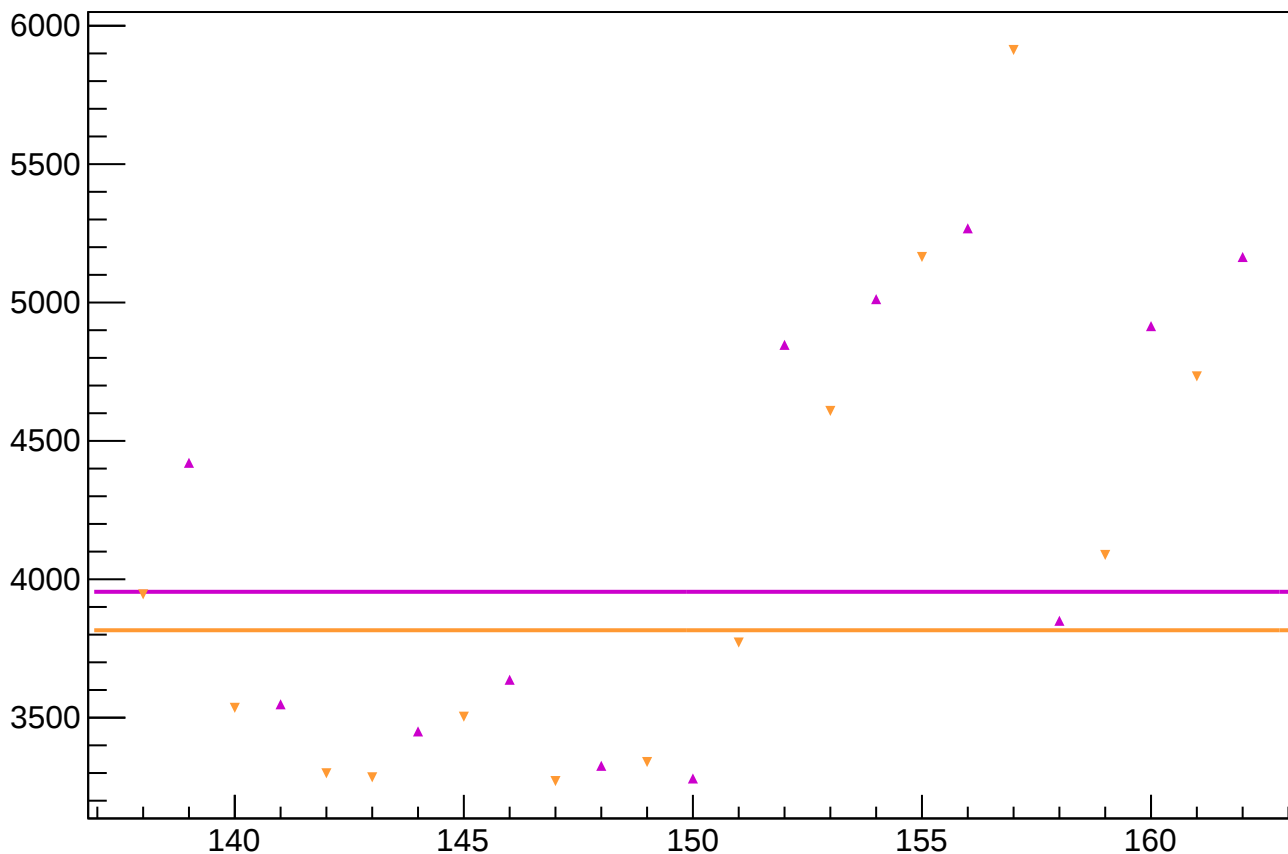
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1126.750+/-1283.999  $\chi^2/\text{NDF}$ :9.9/11

Out: -572.500+/-1246.653  $\chi^2/\text{NDF}$ :17.8/12

All: -841.447+/-894.428  $\chi^2/\text{NDF}$ : 27.8/24

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



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

Left Out: 3815.846+/-0.882  $\chi^2/\text{NDF}$ :566145.3/12

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

Left In: 3954.777+/-0.908  $\chi^2/\text{NDF}$ :591415.0/11

Left: 3883.262+/-0.632  $\chi^2/\text{NDF}$ : 1169613.4/24

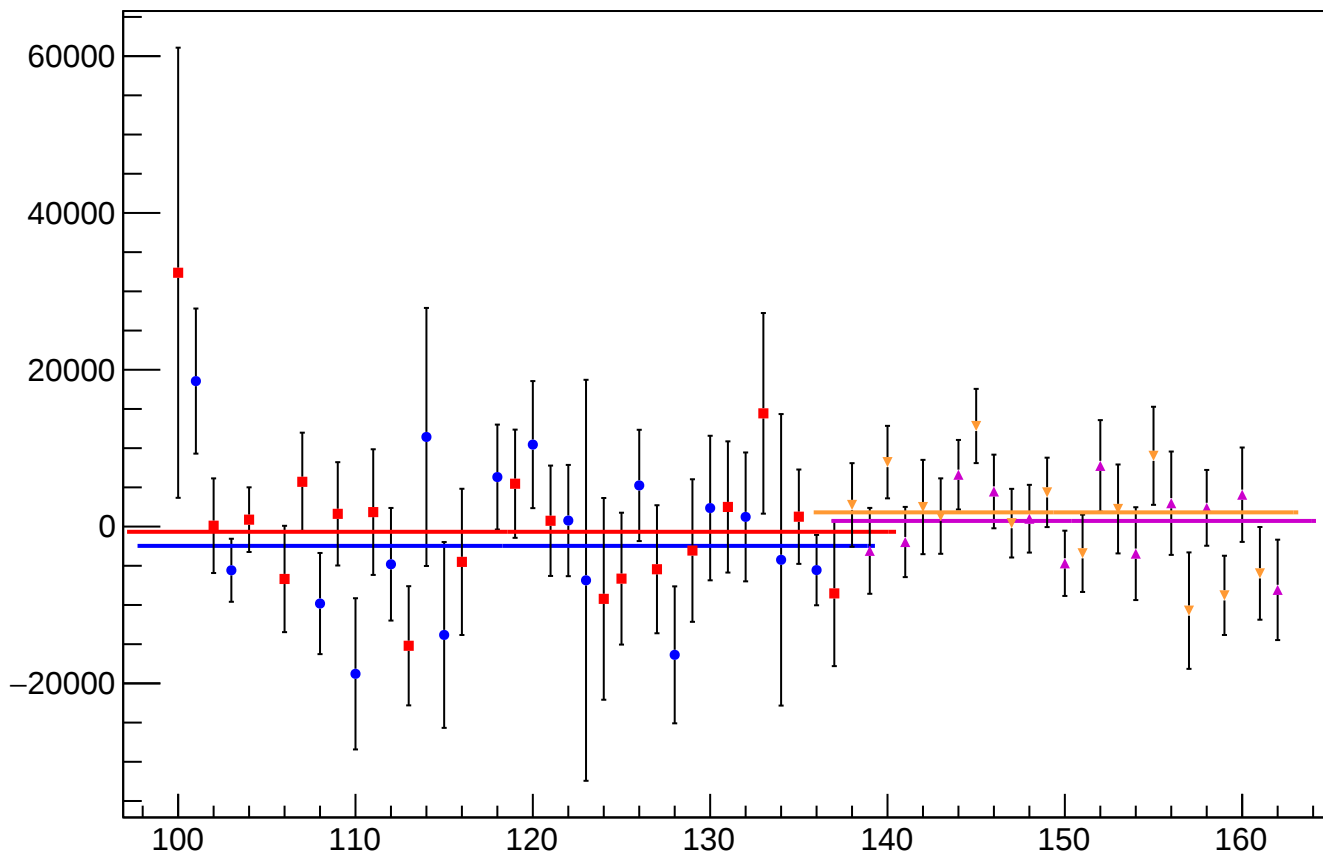
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3954.777+/-0.908  $\chi^2/\text{NDF}$ :591415.0/11

Out: 3815.846+/-0.882  $\chi^2/\text{NDF}$ :566145.3/12

All: 3883.262+/-0.632  $\chi^2/\text{NDF}$ : 1169613.4/24

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



Right In: -2462.254 $\pm$ 1797.293  $\chi^2$ /NDF: 20.8/16

Left Out: 1813.161 $\pm$ 1436.917  $\chi^2$ /NDF:19.2/12

Right Out: -666.170 $\pm$ 1689.812  $\chi^2$ /NDF: 11.9/18

Left In: 719.576 $\pm$ 1464.273  $\chi^2$ /NDF:9.3/11

Left: 1276.679 $\pm$ 1025.589  $\chi^2$ /NDF: 28.8/24

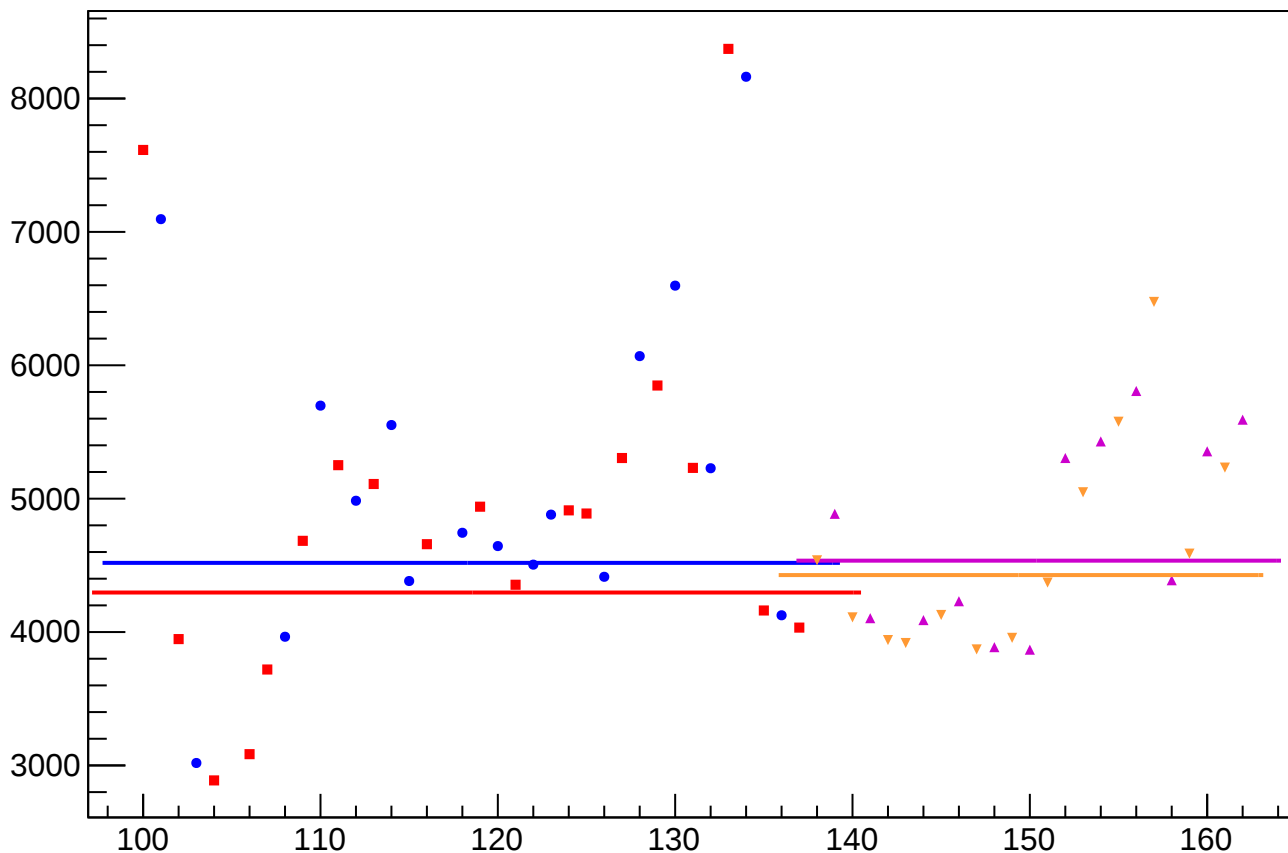
Right: -1508.905 $\pm$ 1231.122  $\chi^2$ /NDF: 33.3/35

In: -549.813 $\pm$ 1135.214  $\chi^2$ /NDF:32.0/28

Out: 772.724 $\pm$ 1094.659  $\chi^2$ /NDF:32.4/31

All: 135.500 $\pm$ 787.988  $\chi^2$ /NDF: 65.1/60

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



Right In: 4518.684 $\pm$ 1.271  $\chi^2/\text{NDF}$ : 770226.9/16

Left Out: 4427.173 $\pm$ 1.016  $\chi^2/\text{NDF}$ : 391806.9/12

Right Out: 4296.379 $\pm$ 1.188  $\chi^2/\text{NDF}$ : 771702.5/18

Left In: 4535.238 $\pm$ 1.035  $\chi^2/\text{NDF}$ : 400154.1/11

Left: 4480.187 $\pm$ 0.725  $\chi^2/\text{NDF}$ : 797510.3/24

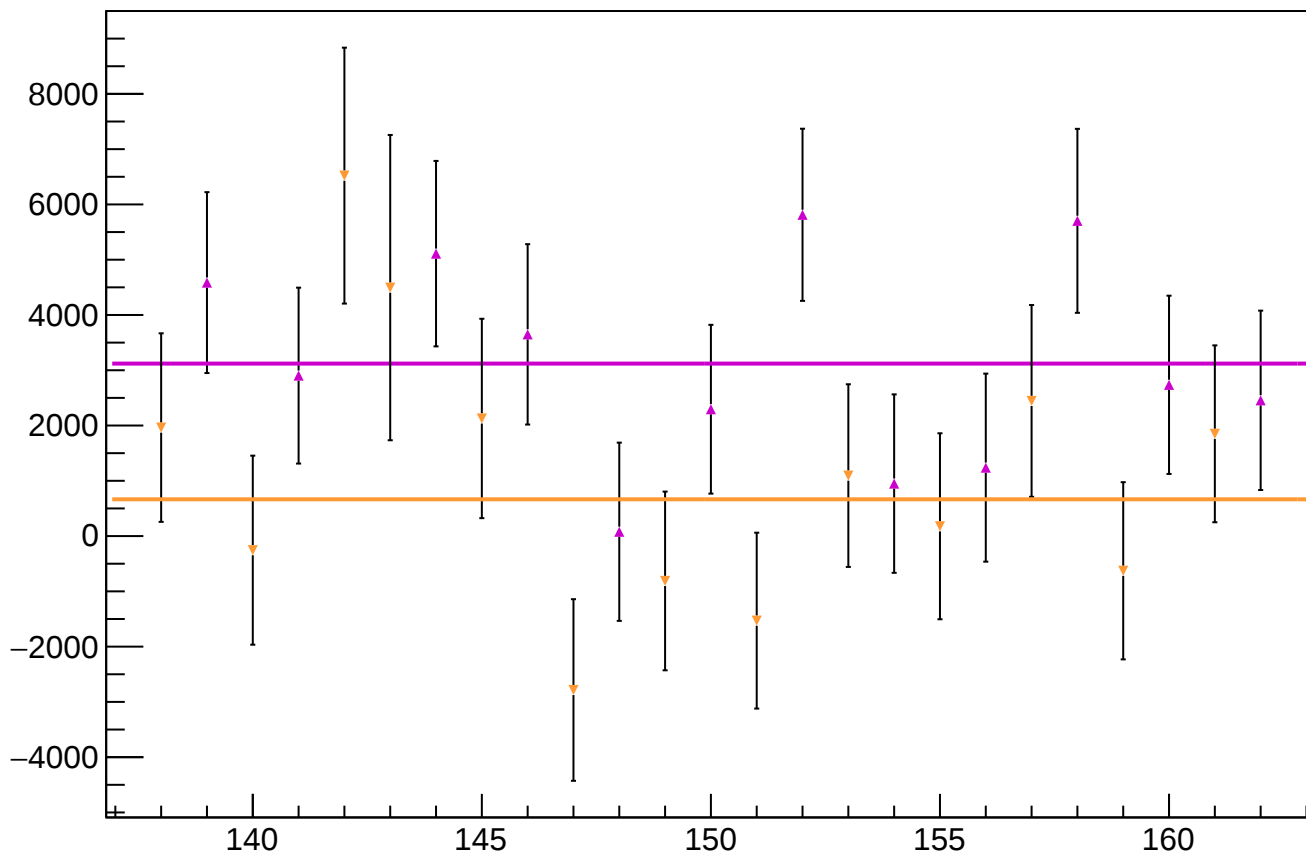
Right: 4400.071 $\pm$ 0.868  $\chi^2/\text{NDF}$ : 1558255.2/35

In: 4528.634 $\pm$ 0.803  $\chi^2/\text{NDF}$ : 1170483.0/28

Out: 4371.931 $\pm$ 0.772  $\chi^2/\text{NDF}$ : 1170508.1/31

All: 4447.251 $\pm$ 0.557  $\chi^2/\text{NDF}$ : 2360782.9/60

dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 665.467+/-482.756  $\chi^2/\text{NDF}$ :19.4/12

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

Left In: 3120.555+/-467.244  $\chi^2/\text{NDF}$ :14.8/11

Left: 1933.087+/-335.742  $\chi^2/\text{NDF}$ : 47.6/24

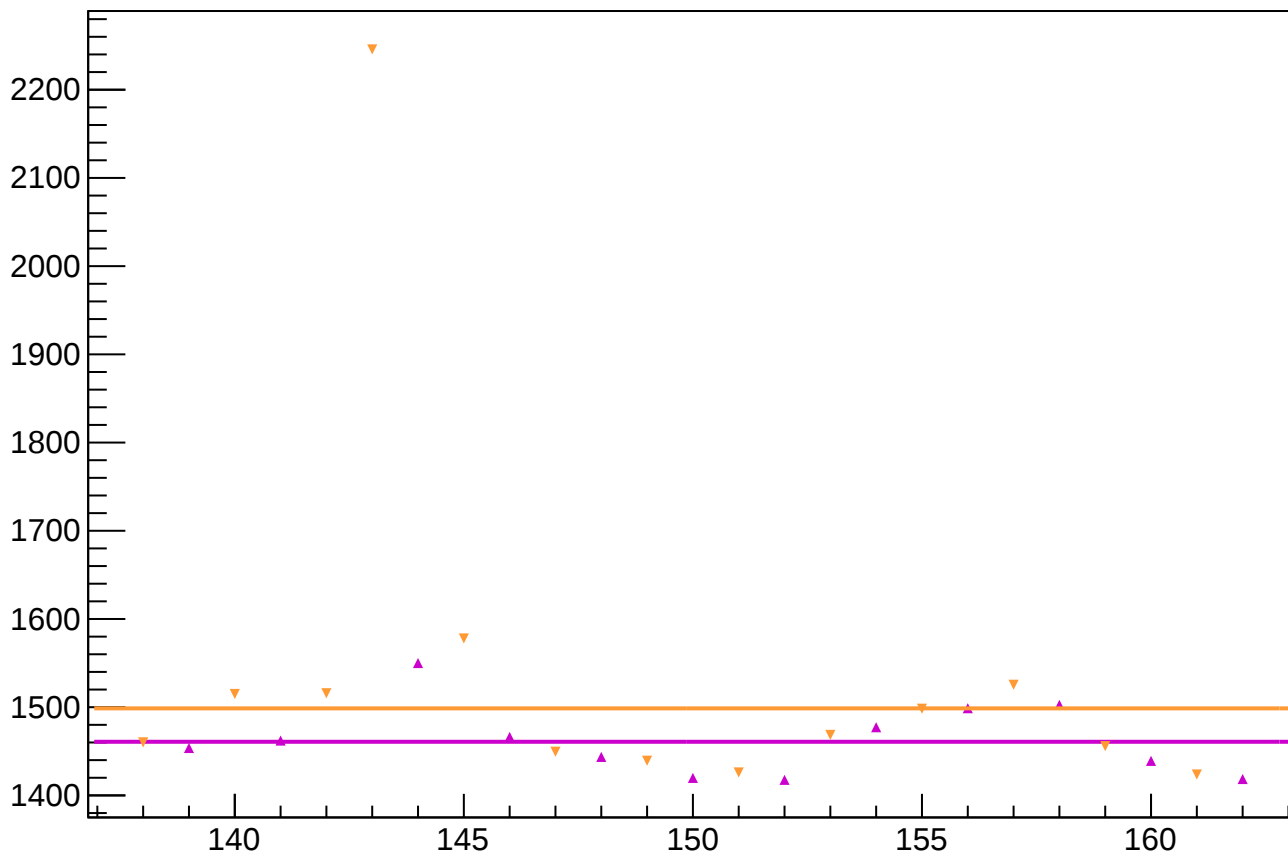
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3120.555+/-467.244  $\chi^2/\text{NDF}$ :14.8/11

Out: 665.467+/-482.756  $\chi^2/\text{NDF}$ :19.4/12

All: 1933.087+/-335.742  $\chi^2/\text{NDF}$ : 47.6/24

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1498.678+/-0.341  $\chi^2/\text{NDF}$ :167144.6/12

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

Left In: 1460.803+/-0.330  $\chi^2/\text{NDF}$ :13111.0/11

Left: 1479.122+/-0.237  $\chi^2/\text{NDF}$ : 186612.0/24

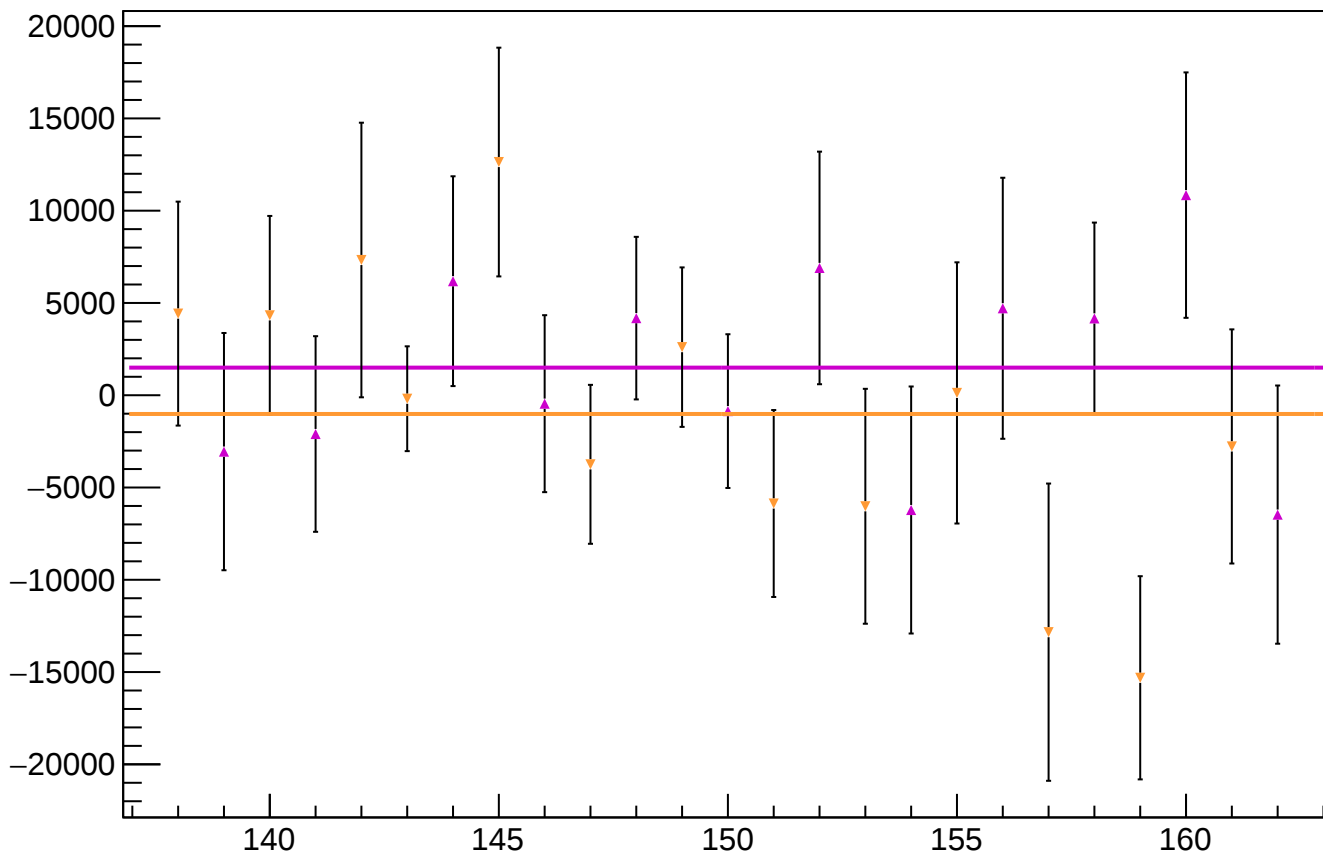
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1460.803+/-0.330  $\chi^2/\text{NDF}$ :13111.0/11

Out: 1498.678+/-0.341  $\chi^2/\text{NDF}$ :167144.6/12

All: 1479.122+/-0.237  $\chi^2/\text{NDF}$ : 186612.0/24

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1015.601+/-1422.564  $\chi^2/\text{NDF}$ :19.6/12

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

Left In: 1495.722+/-1599.085  $\chi^2/\text{NDF}$ :8.3/11

Left: 93.852+/-1062.856  $\chi^2/\text{NDF}$ : 29.3/24

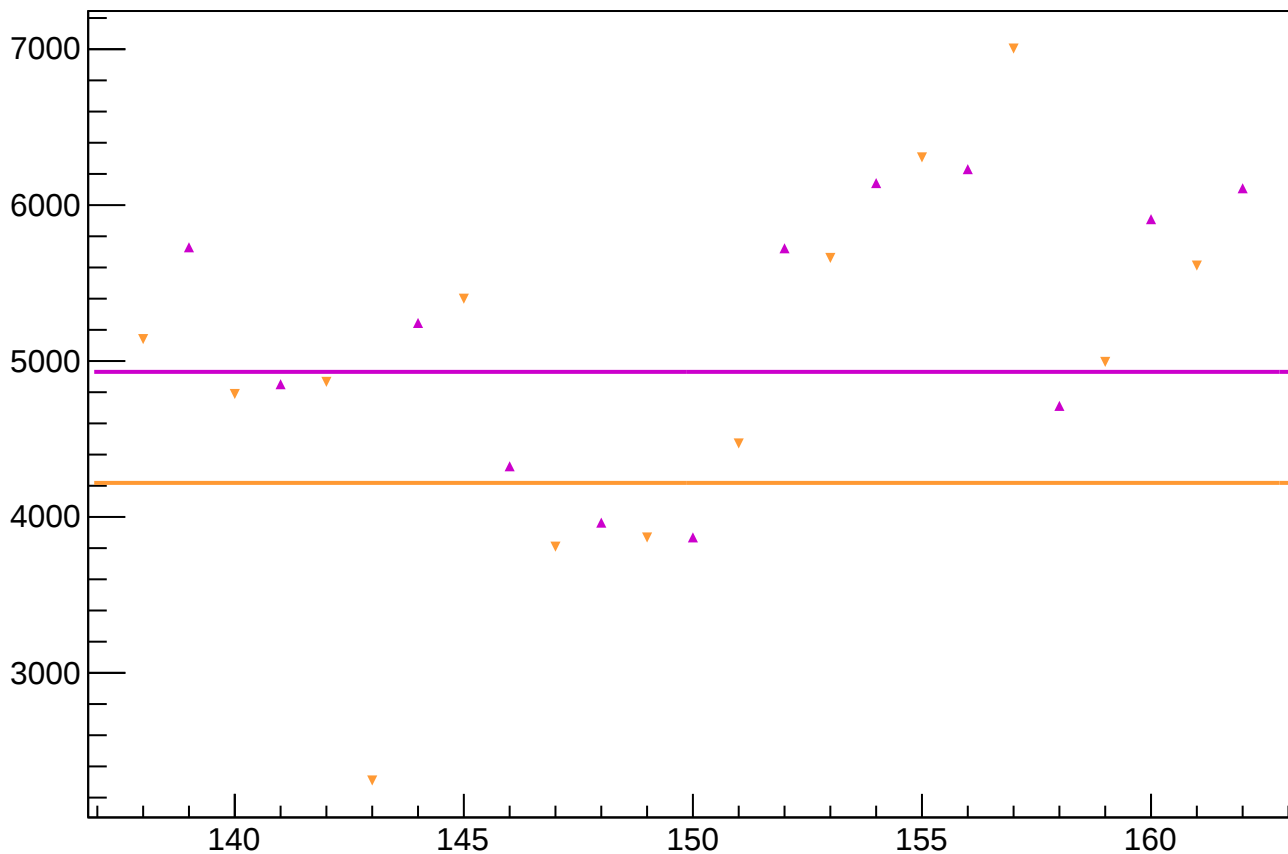
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1495.722+/-1599.085  $\chi^2/\text{NDF}$ :8.3/11

Out: -1015.601+/-1422.564  $\chi^2/\text{NDF}$ :19.6/12

All: 93.852+/-1062.856  $\chi^2/\text{NDF}$ : 29.3/24

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 4218.456+/-1.006  $\chi^2/\text{NDF}$ :1748588.9/12

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

Left In: 4930.537+/-1.131  $\chi^2/\text{NDF}$ :563914.1/11

Left: 4533.039+/-0.752  $\chi^2/\text{NDF}$ : 2533889.8/24

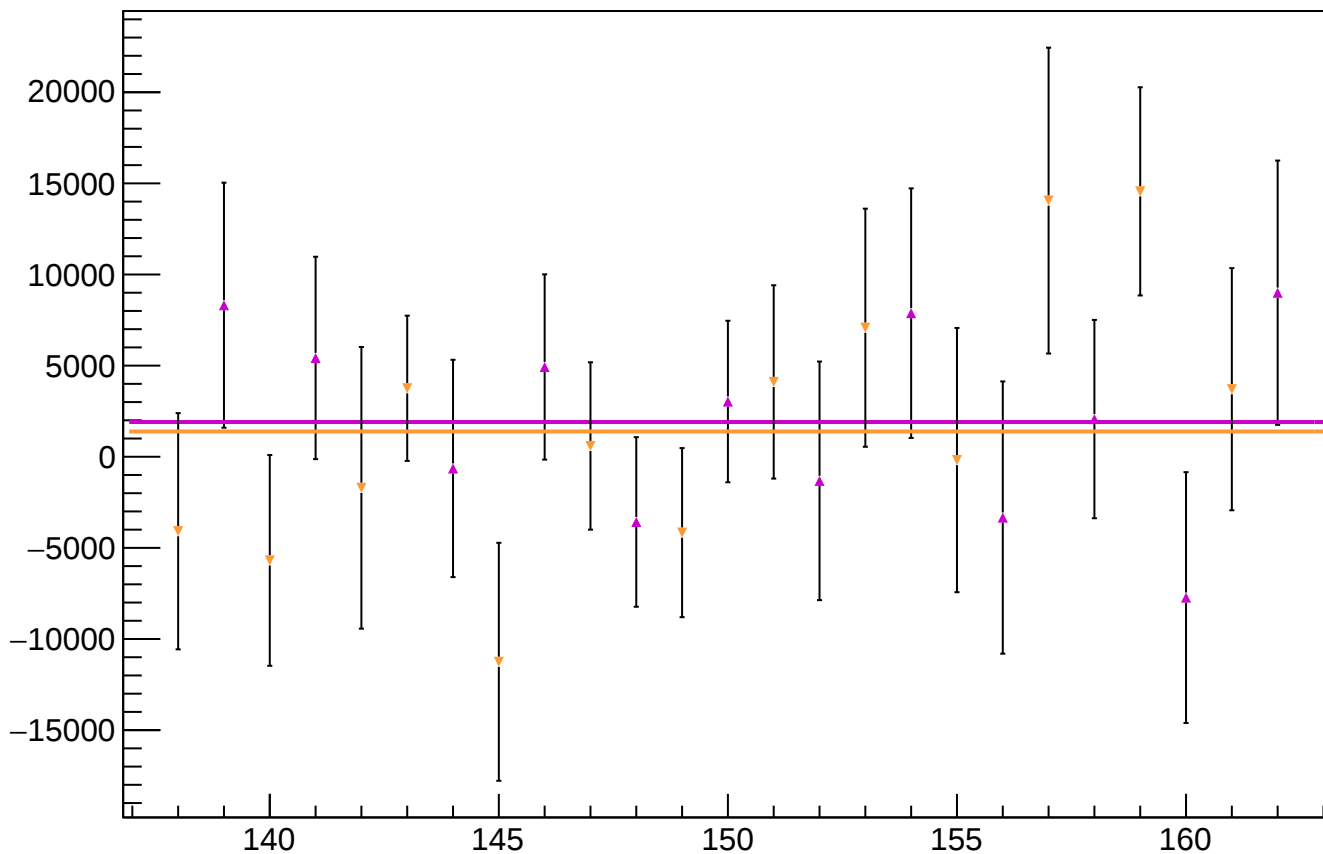
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4930.537+/-1.131  $\chi^2/\text{NDF}$ :563914.1/11

Out: 4218.456+/-1.006  $\chi^2/\text{NDF}$ :1748588.9/12

All: 4533.039+/-0.752  $\chi^2/\text{NDF}$ : 2533889.8/24

asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1387.167+/-1588.420  $\chi^2/\text{NDF}$ :16.7/12

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

Left In: 1906.298+/-1678.127  $\chi^2/\text{NDF}$ :7.7/11

Left: 1632.486+/-1153.593  $\chi^2/\text{NDF}$ : 24.5/24

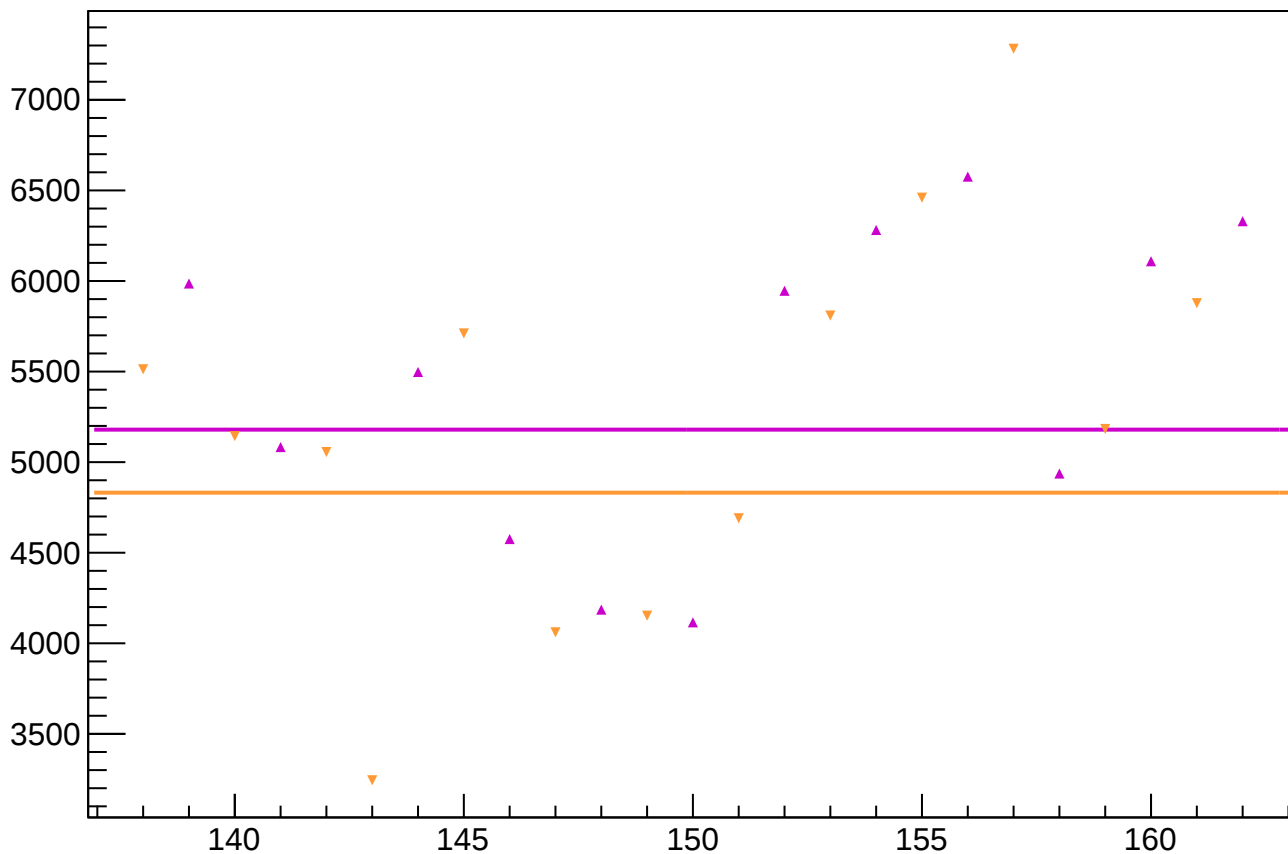
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1906.298+/-1678.127  $\chi^2/\text{NDF}$ :7.7/11

Out: 1387.167+/-1588.420  $\chi^2/\text{NDF}$ :16.7/12

All: 1632.486+/-1153.593  $\chi^2/\text{NDF}$ : 24.5/24

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 4831.484+/-1.123  $\chi^2/\text{NDF}$ :857563.3/12

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

Left In: 5179.477+/-1.187  $\chi^2/\text{NDF}$ :509920.9/11

Left: 4995.931+/-0.816  $\chi^2/\text{NDF}$ : 1412846.7/24

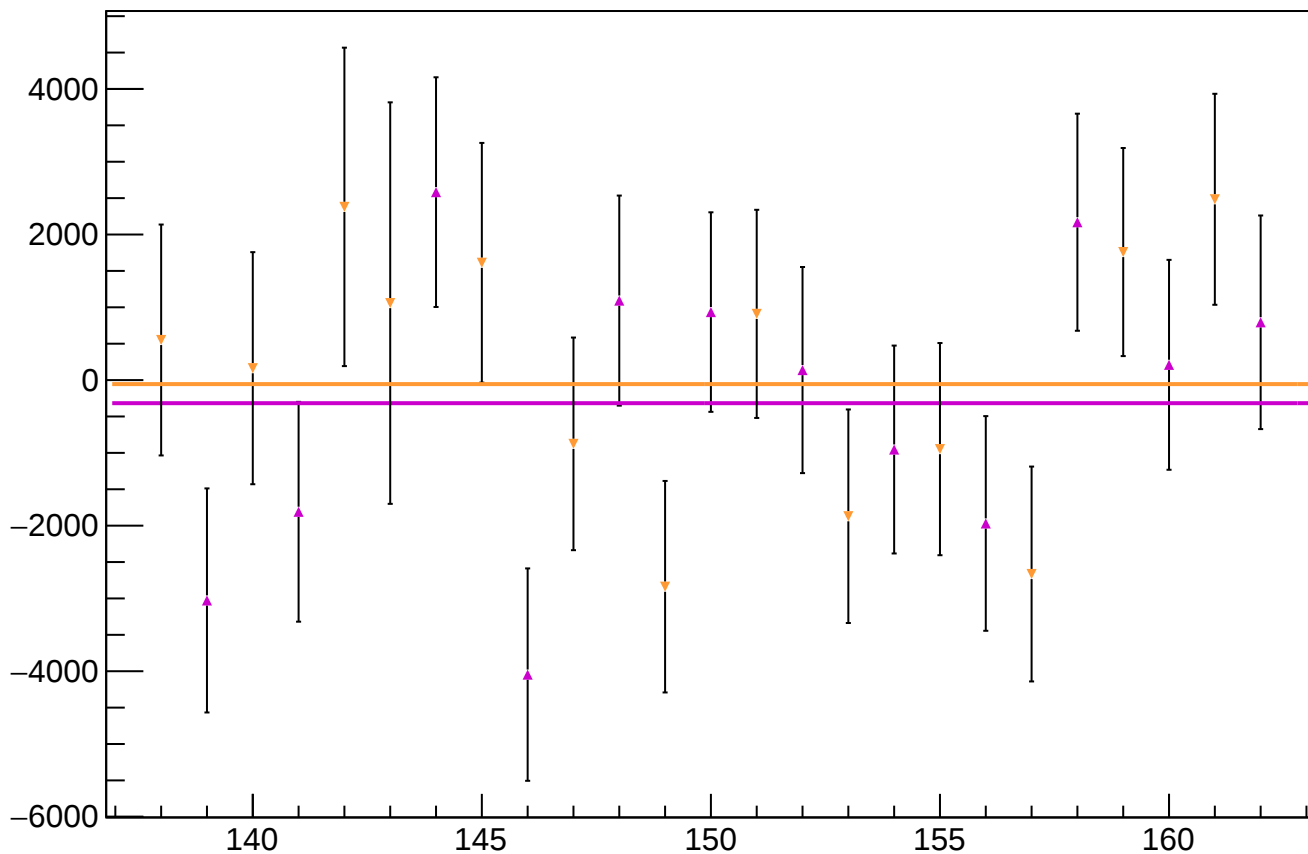
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5179.477+/-1.187  $\chi^2/\text{NDF}$ :509920.9/11

Out: 4831.484+/-1.123  $\chi^2/\text{NDF}$ :857563.3/12

All: 4995.931+/-0.816  $\chi^2/\text{NDF}$ : 1412846.7/24

dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-55.074 \pm 434.739$   $\chi^2/\text{NDF}: 16.7/12$

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

Left In:  $-317.233 \pm 423.016$   $\chi^2/\text{NDF}: 20.8/11$

Left:  $-189.736 \pm 303.177$   $\chi^2/\text{NDF}: 37.7/24$

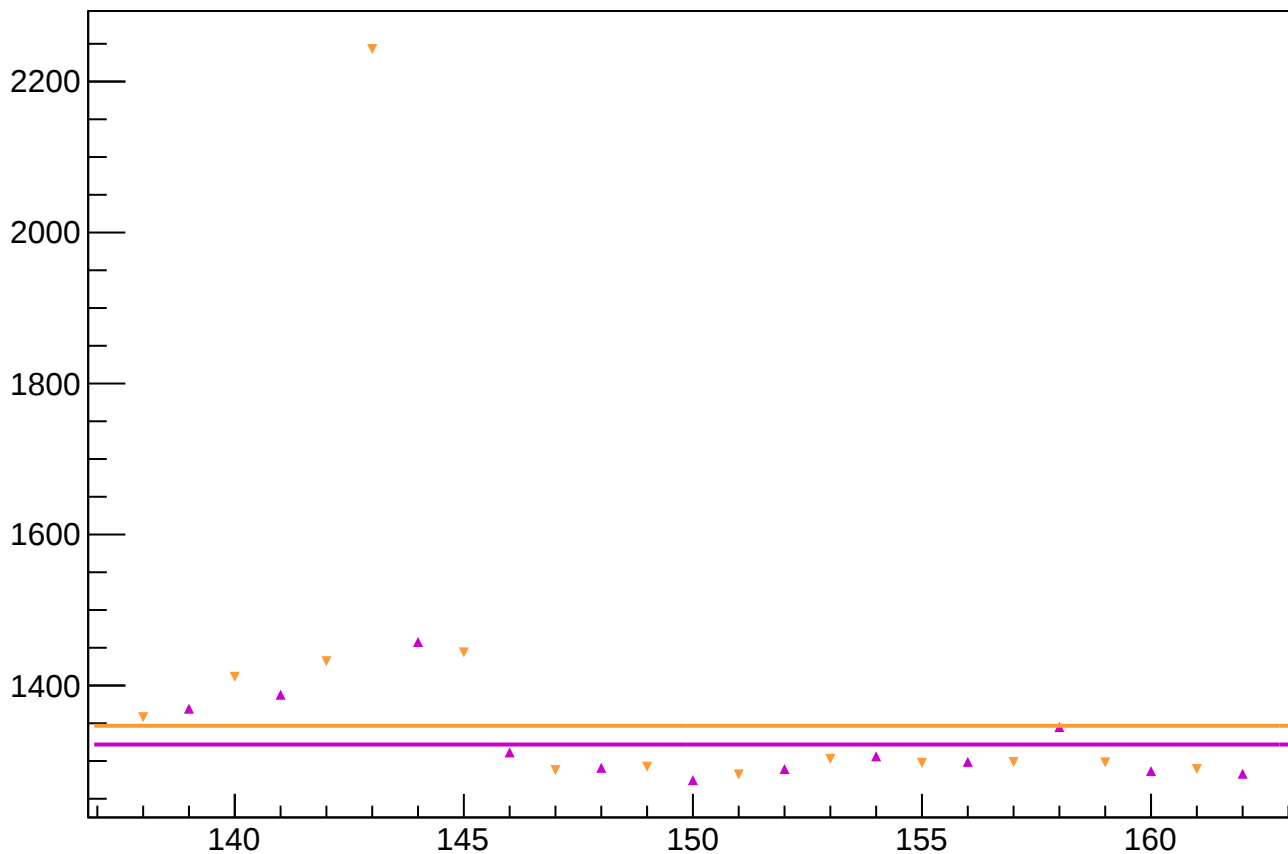
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-317.233 \pm 423.016$   $\chi^2/\text{NDF}: 20.8/11$

Out:  $-55.074 \pm 434.739$   $\chi^2/\text{NDF}: 16.7/12$

All:  $-189.736 \pm 303.177$   $\chi^2/\text{NDF}: 37.7/24$

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1346.677+/-0.307  $\chi^2/\text{NDF}$ :246296.7/12

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

Left In: 1321.840+/-0.299  $\chi^2/\text{NDF}$ :28763.5/11

Left: 1333.919+/-0.214  $\chi^2/\text{NDF}$ : 278413.4/24

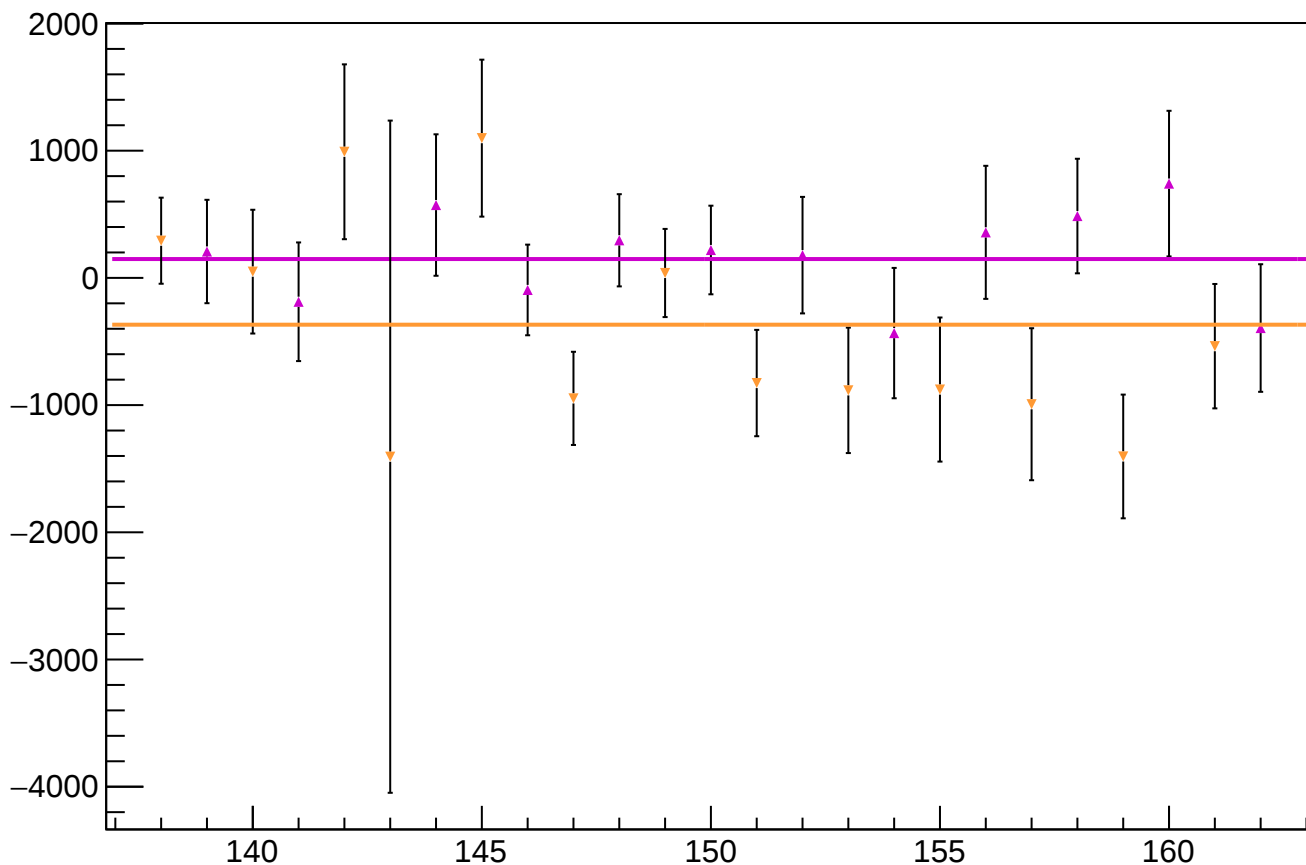
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1321.840+/-0.299  $\chi^2/\text{NDF}$ :28763.5/11

Out: 1346.677+/-0.307  $\chi^2/\text{NDF}$ :246296.7/12

All: 1333.919+/-0.214  $\chi^2/\text{NDF}$ : 278413.4/24

asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -367.900+/-131.538  $\chi^2/\text{NDF}$ :27.0/12

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

Left In: 148.165+/-127.190  $\chi^2/\text{NDF}$ :6.1/11

Left: -101.198+/-91.436  $\chi^2/\text{NDF}$ : 41.0/24

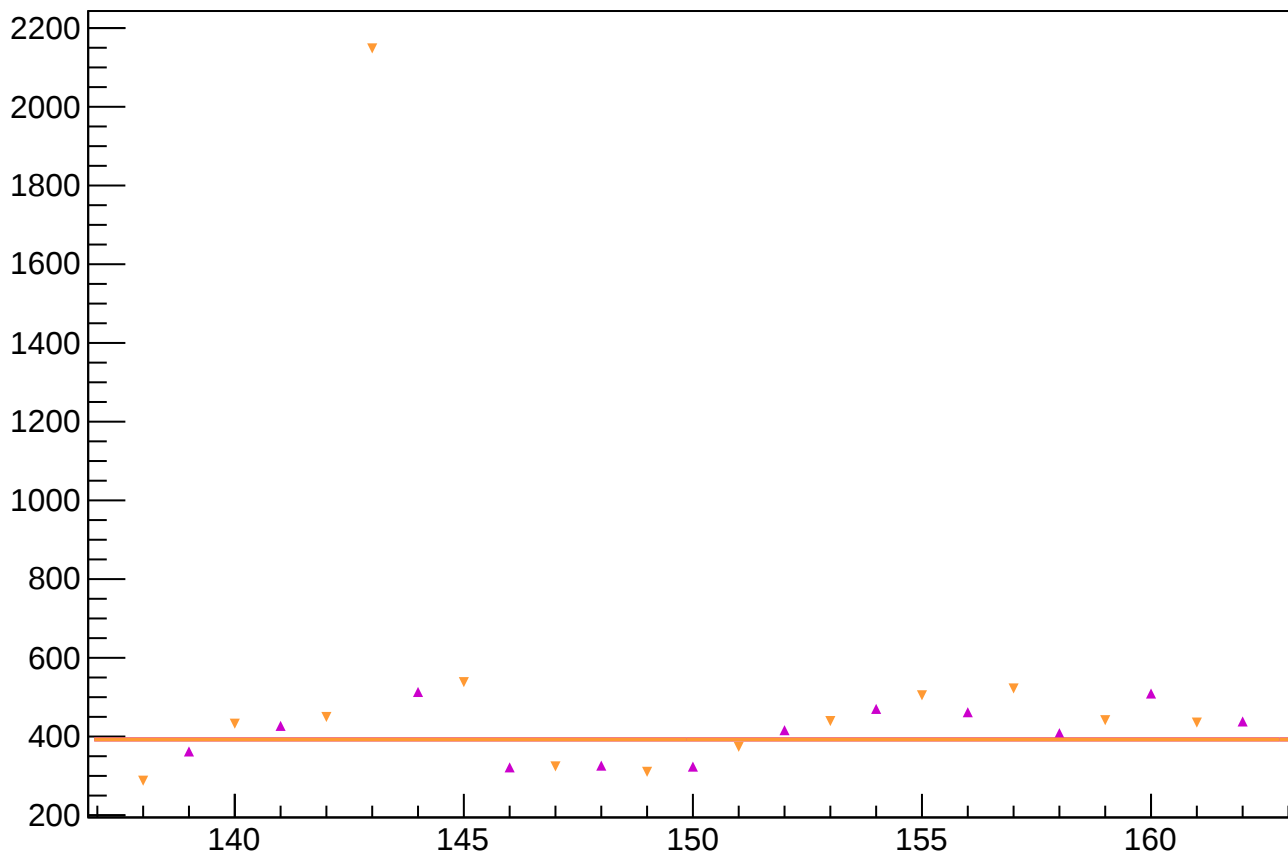
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.165+/-127.190  $\chi^2/\text{NDF}$ :6.1/11

Out: -367.900+/-131.538  $\chi^2/\text{NDF}$ :27.0/12

All: -101.198+/-91.436  $\chi^2/\text{NDF}$ : 41.0/24

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 392.549+/-0.093  $\chi^2/\text{NDF}$ :1626312.9/12

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

Left In: 392.752+/-0.090  $\chi^2/\text{NDF}$ :529855.1/11

Left: 392.654+/-0.065  $\chi^2/\text{NDF}$ : 2156170.4/24

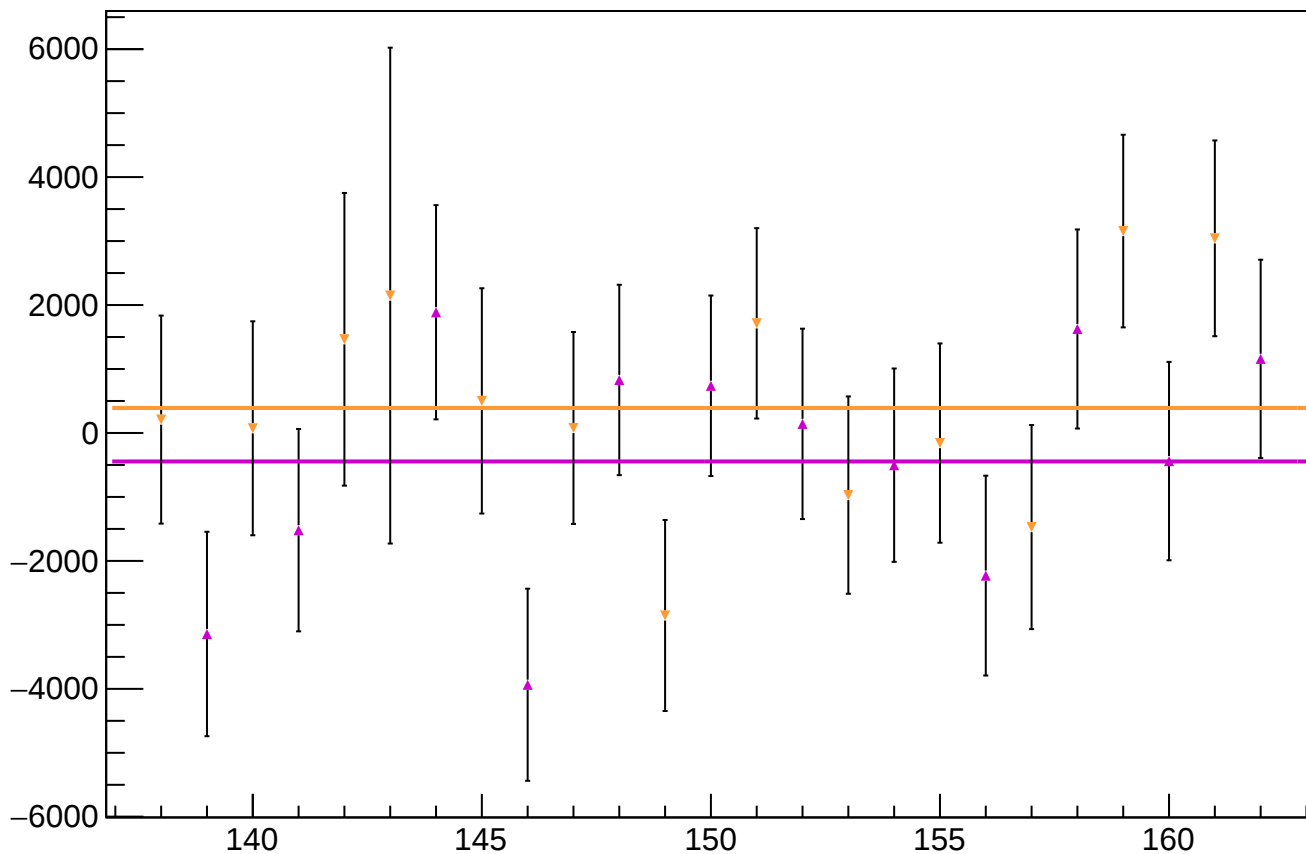
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 392.752+/-0.090  $\chi^2/\text{NDF}$ :529855.1/11

Out: 392.549+/-0.093  $\chi^2/\text{NDF}$ :1626312.9/12

All: 392.654+/-0.065  $\chi^2/\text{NDF}$ : 2156170.4/24

asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 390.975+/-458.617  $\chi^2/\text{NDF}$ :14.7/12

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

Left In: -445.105+/-443.236  $\chi^2/\text{NDF}$ :16.4/11

Left: -41.320+/-318.714  $\chi^2/\text{NDF}$ : 32.8/24

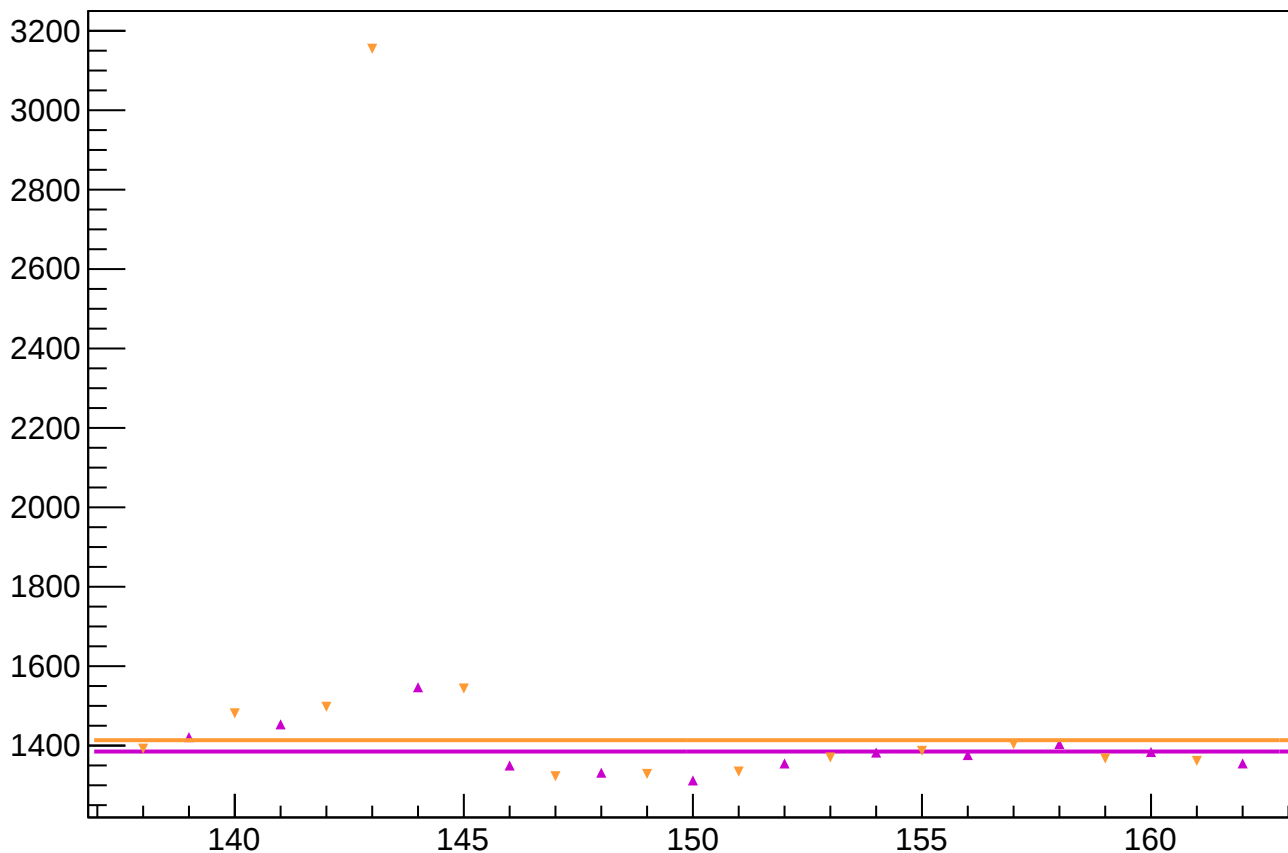
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -445.105+/-443.236  $\chi^2/\text{NDF}$ :16.4/11

Out: 390.975+/-458.617  $\chi^2/\text{NDF}$ :14.7/12

All: -41.320+/-318.714  $\chi^2/\text{NDF}$ : 32.8/24

asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1413.574+/-0.324  $\chi^2/\text{NDF}$ :446879.2/12

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

Left In: 1385.015+/-0.313  $\chi^2/\text{NDF}$ :34372.4/11

Left: 1398.807+/-0.225  $\chi^2/\text{NDF}$ : 485261.5/24

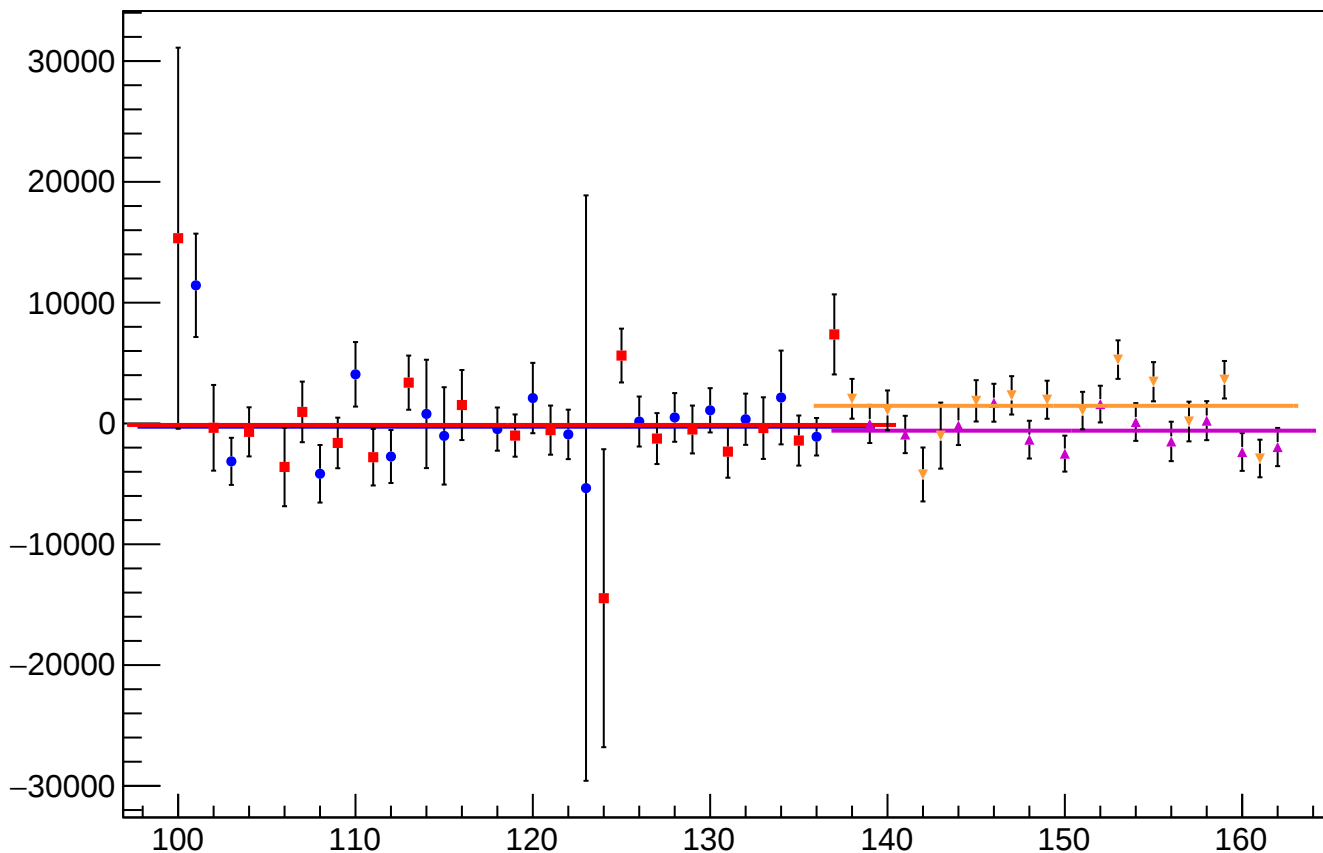
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1385.015+/-0.313  $\chi^2/\text{NDF}$ :34372.4/11

Out: 1413.574+/-0.324  $\chi^2/\text{NDF}$ :446879.2/12

All: 1398.807+/-0.225  $\chi^2/\text{NDF}$ : 485261.5/24

dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In:  $-266.664 \pm 567.455$   $\chi^2/\text{NDF}: 18.6/16$

Left Out:  $1461.728 \pm 466.292$   $\chi^2/\text{NDF}: 25.7/12$

Right Out:  $-122.072 \pm 554.216$   $\chi^2/\text{NDF}: 22.1/18$

Left In:  $-596.674 \pm 452.719$   $\chi^2/\text{NDF}: 9.1/11$

Left:  $402.133 \pm 324.813$   $\chi^2/\text{NDF}: 44.8/24$

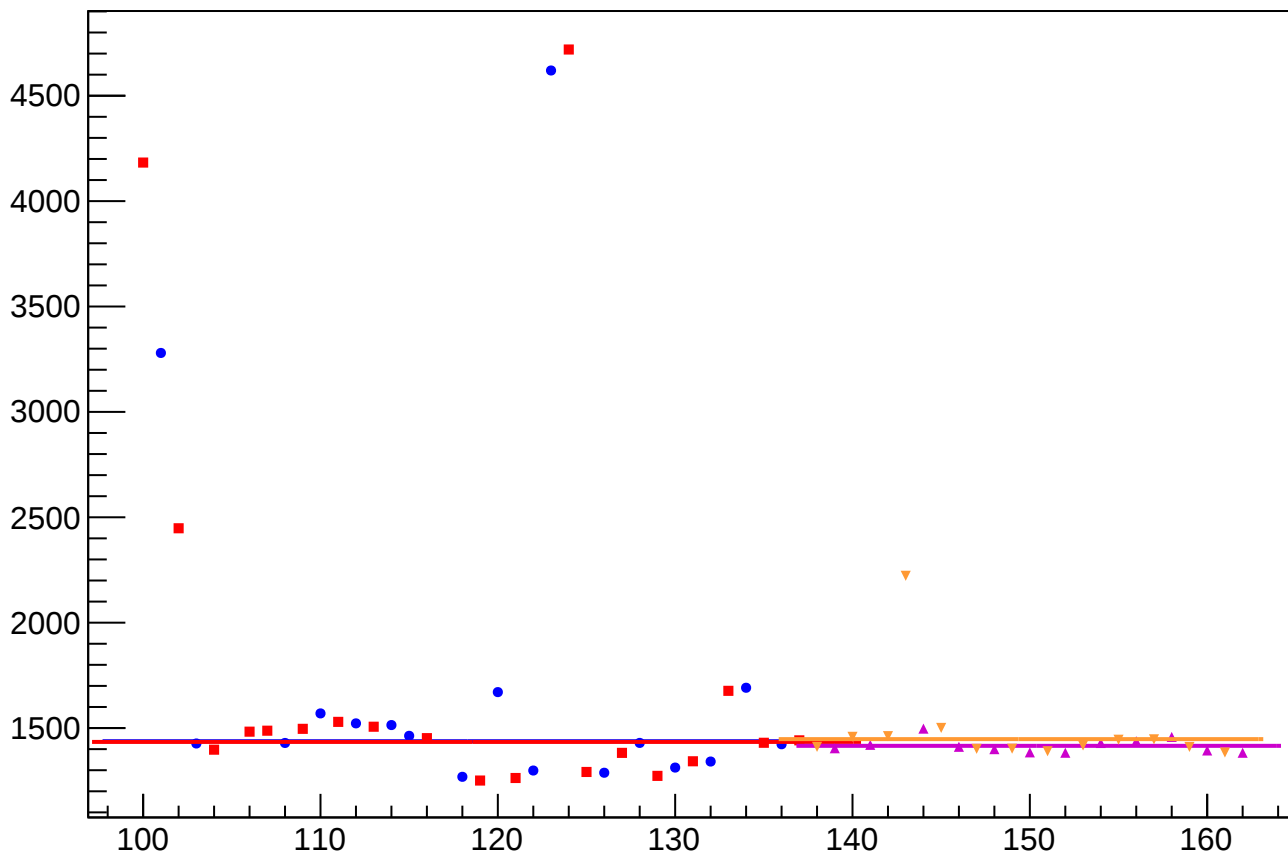
Right:  $-192.662 \pm 396.488$   $\chi^2/\text{NDF}: 40.8/35$

In:  $-468.321 \pm 353.893$   $\chi^2/\text{NDF}: 28.0/28$

Out:  $805.278 \pm 356.804$   $\chi^2/\text{NDF}: 52.6/31$

All:  $163.261 \pm 251.263$   $\chi^2/\text{NDF}: 87.0/60$

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 1437.576+/-0.401  $\chi^2/\text{NDF}$ : 486465.9/16

Left Out: 1447.510+/-0.330  $\chi^2/\text{NDF}$ : 175084.0/12

Right Out: 1434.272+/-0.392  $\chi^2/\text{NDF}$ : 455611.8/18

Left In: 1415.680+/-0.320  $\chi^2/\text{NDF}$ : 10346.1/11

Left: 1431.125+/-0.230  $\chi^2/\text{NDF}$ : 190227.4/24

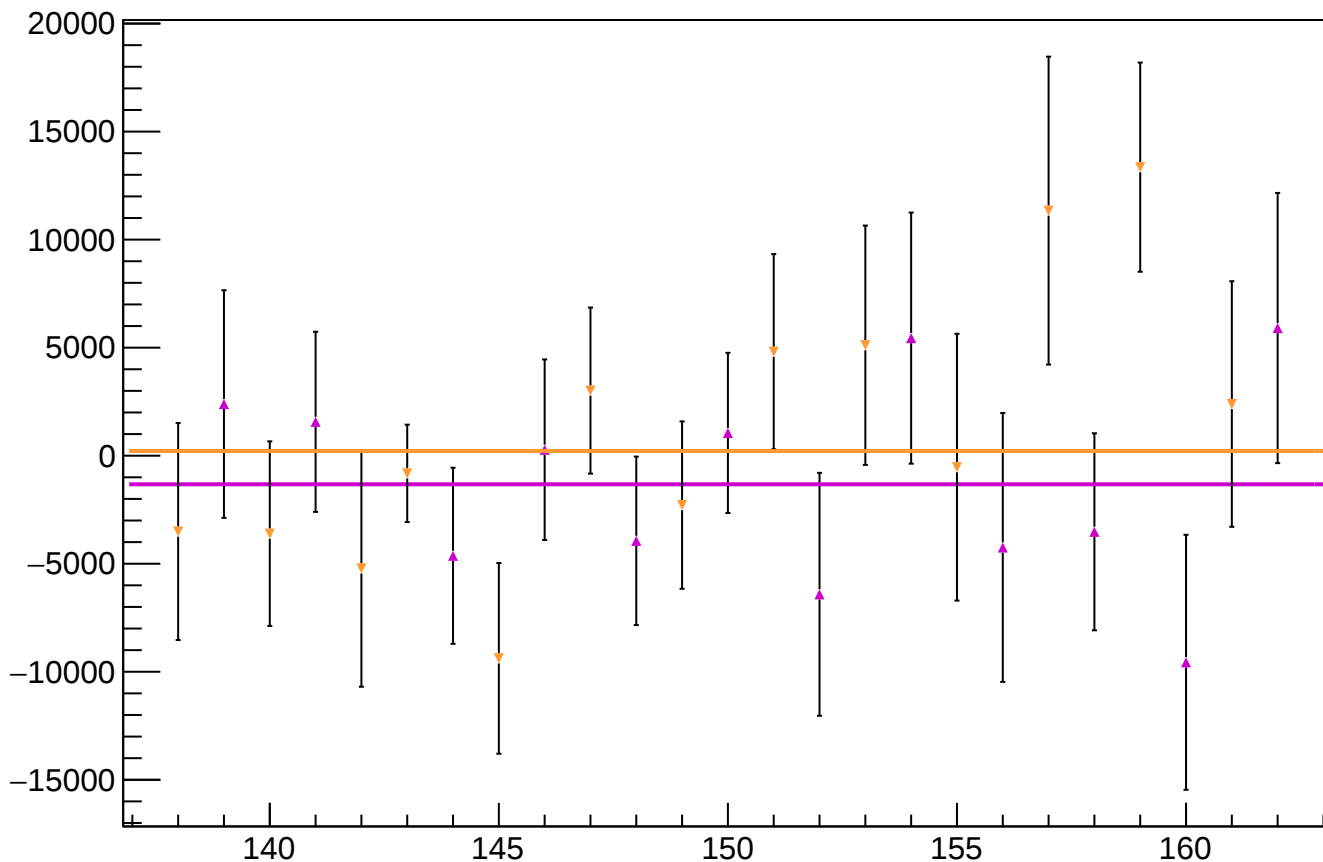
Right: 1435.884+/-0.280  $\chi^2/\text{NDF}$ : 942112.4/35

In: 1424.196+/-0.250  $\chi^2/\text{NDF}$ : 498631.7/28

Out: 1442.019+/-0.252  $\chi^2/\text{NDF}$ : 631364.4/31

All: 1433.037+/-0.178  $\chi^2/\text{NDF}$ : 1132512.3/60

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 216.802+/-1185.502  $\chi^2/\text{NDF}$ :20.0/12

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

Left In: -1324.390+/-1361.970  $\chi^2/\text{NDF}$ :8.6/11

Left: -447.542+/-894.203  $\chi^2/\text{NDF}$ : 29.3/24

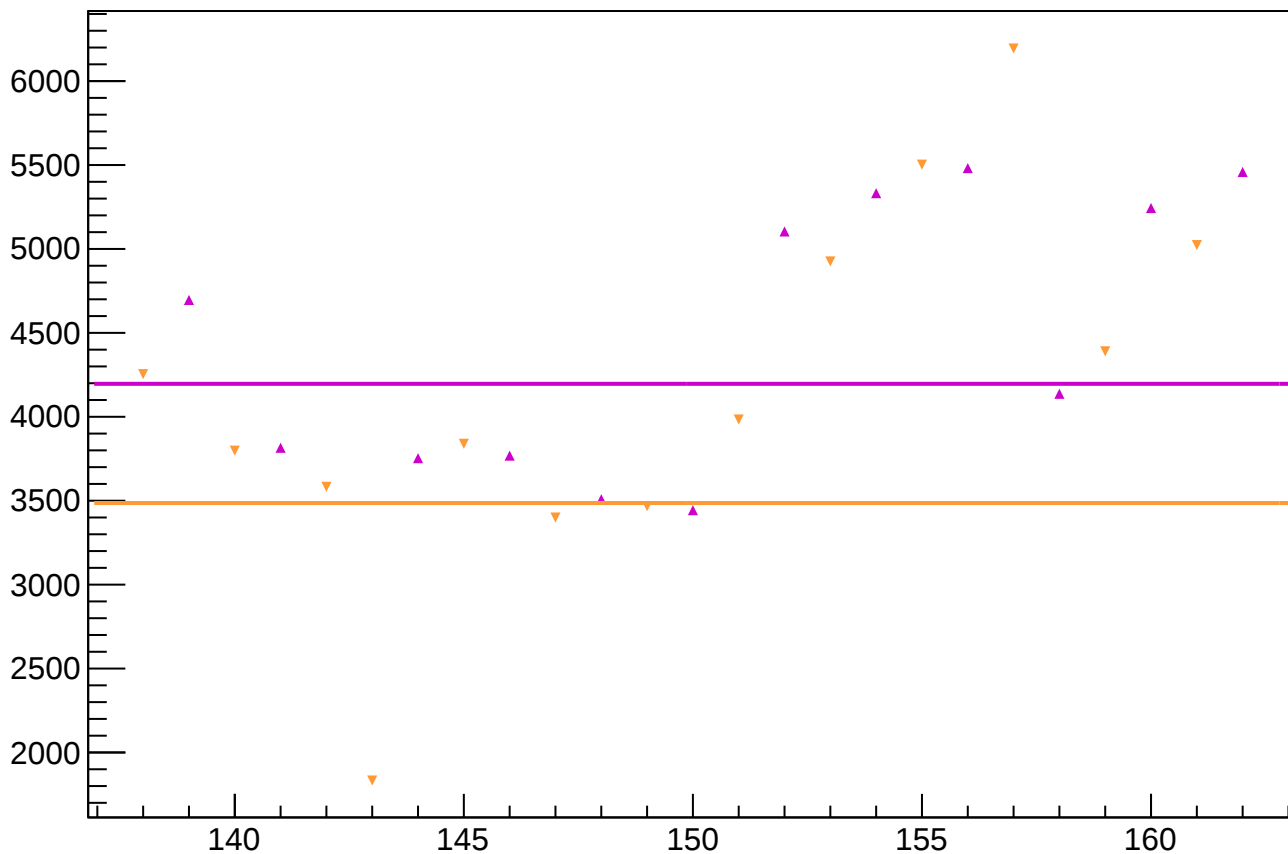
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1324.390+/-1361.970  $\chi^2/\text{NDF}$ :8.6/11

Out: 216.802+/-1185.502  $\chi^2/\text{NDF}$ :20.0/12

All: -447.542+/-894.203  $\chi^2/\text{NDF}$ : 29.3/24

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 3486.262+/-0.838  $\chi^2/\text{NDF}$ :2025452.2/12

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

Left In: 4196.468+/-0.963  $\chi^2/\text{NDF}$ :582703.7/11

Left: 3792.403+/-0.632  $\chi^2/\text{NDF}$ : 2917563.0/24

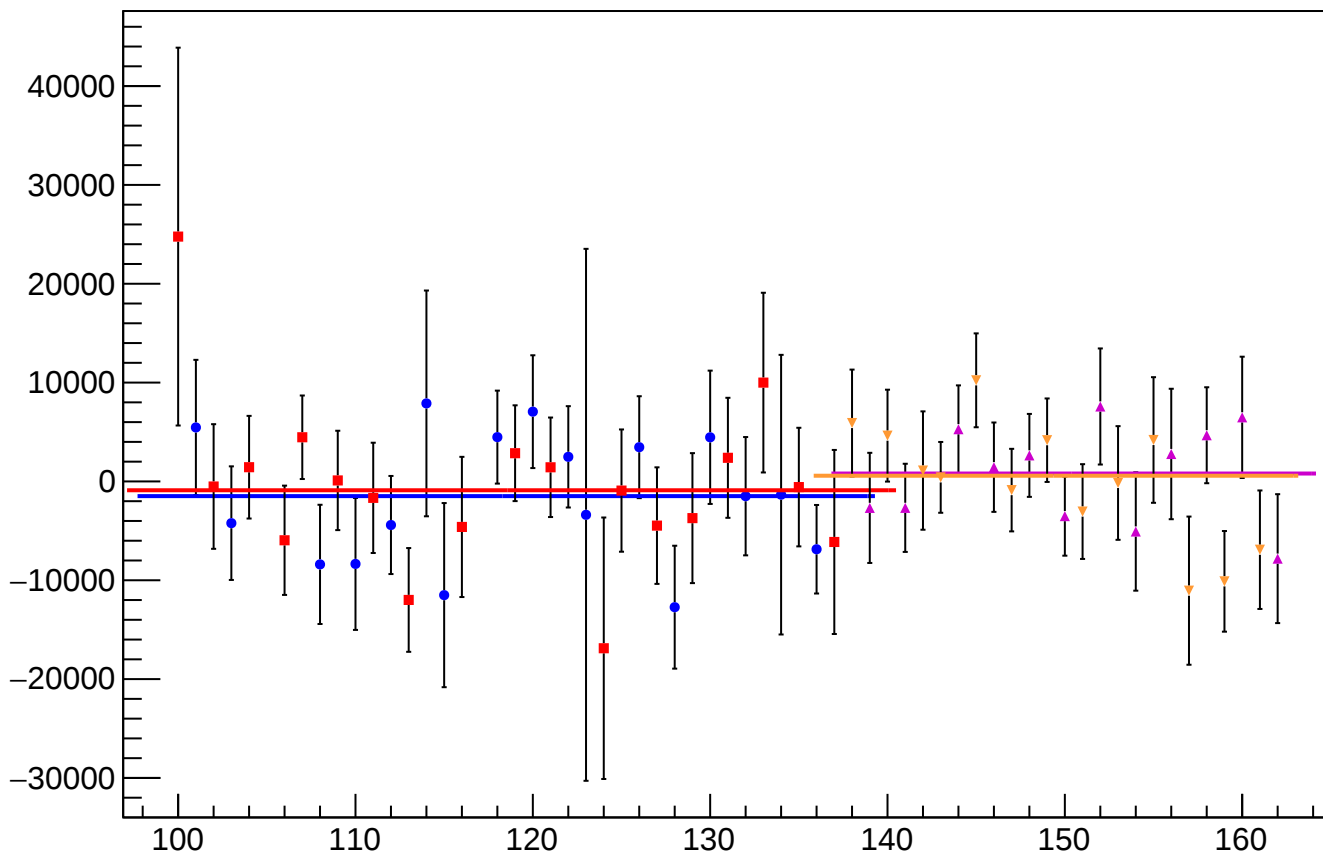
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4196.468+/-0.963  $\chi^2/\text{NDF}$ :582703.7/11

Out: 3486.262+/-0.838  $\chi^2/\text{NDF}$ :2025452.2/12

All: 3792.403+/-0.632  $\chi^2/\text{NDF}$ : 2917563.0/24

asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -1487.038 $\pm$ 1499.116  $\chi^2$ /NDF: 16.7/16

Left Out: 576.712 $\pm$ 1377.820  $\chi^2$ /NDF:16.0/12

Right Out: -894.160 $\pm$ 1378.910  $\chi^2$ /NDF: 14.1/18

Left In: 798.896 $\pm$ 1452.706  $\chi^2$ /NDF:9.0/11

Left: 681.930 $\pm$ 999.692  $\chi^2$ /NDF: 25.0/24

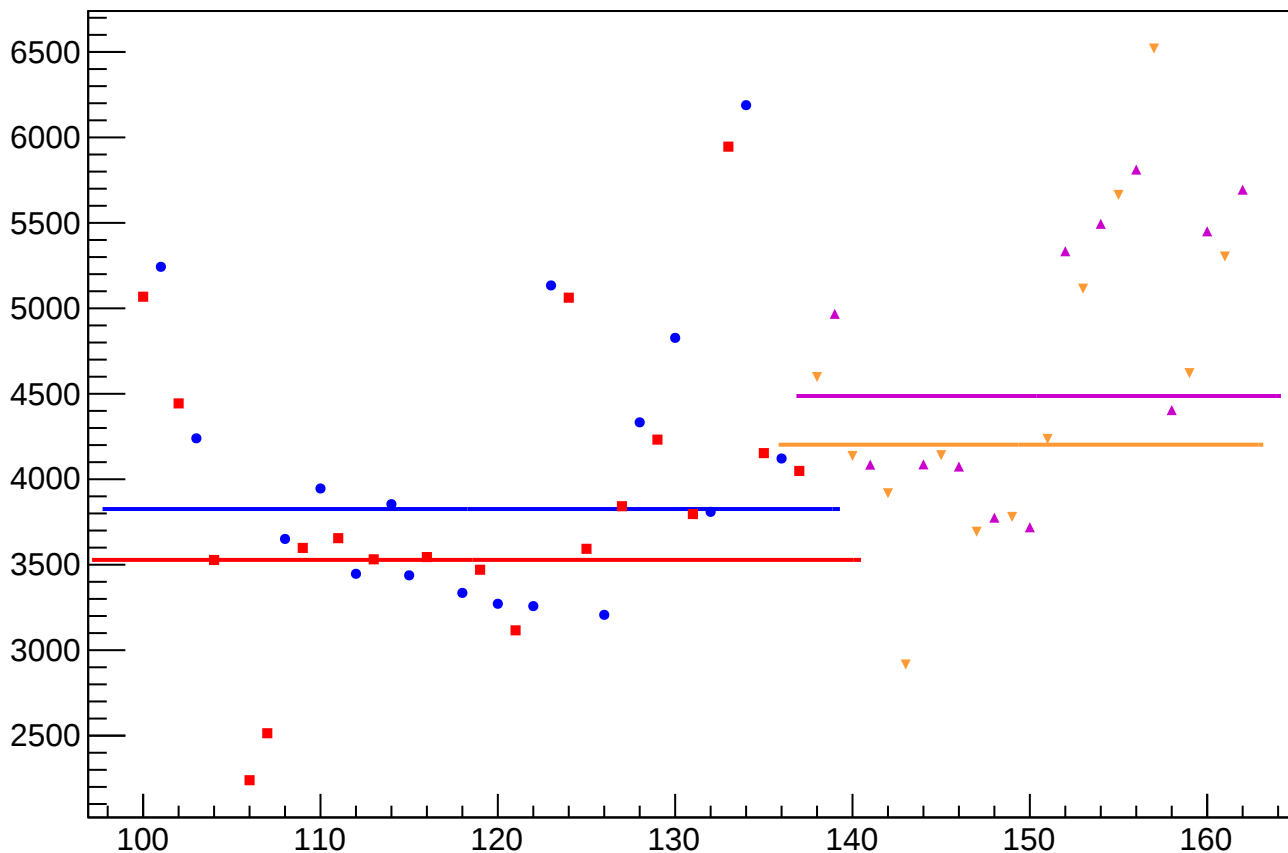
Right: -1165.879 $\pm$ 1014.876  $\chi^2$ /NDF: 30.9/35

In: -308.139 $\pm$ 1043.240  $\chi^2$ /NDF:26.9/28

Out: -158.142 $\pm$ 974.651  $\chi^2$ /NDF:30.7/31

All: -228.048 $\pm$ 712.196  $\chi^2$ /NDF: 57.6/60

asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3825.844+/-1.060  $\chi^2/\text{NDF}$ : 334404.3/16

Left Out: 4202.259+/-0.974  $\chi^2/\text{NDF}$ : 751928.6/12

Right Out: 3528.289+/-0.966  $\chi^2/\text{NDF}$ : 555414.1/18

Left In: 4487.131+/-1.027  $\chi^2/\text{NDF}$ : 492473.6/11

Left: 4337.164+/-0.707  $\chi^2/\text{NDF}$ : 1284889.7/24

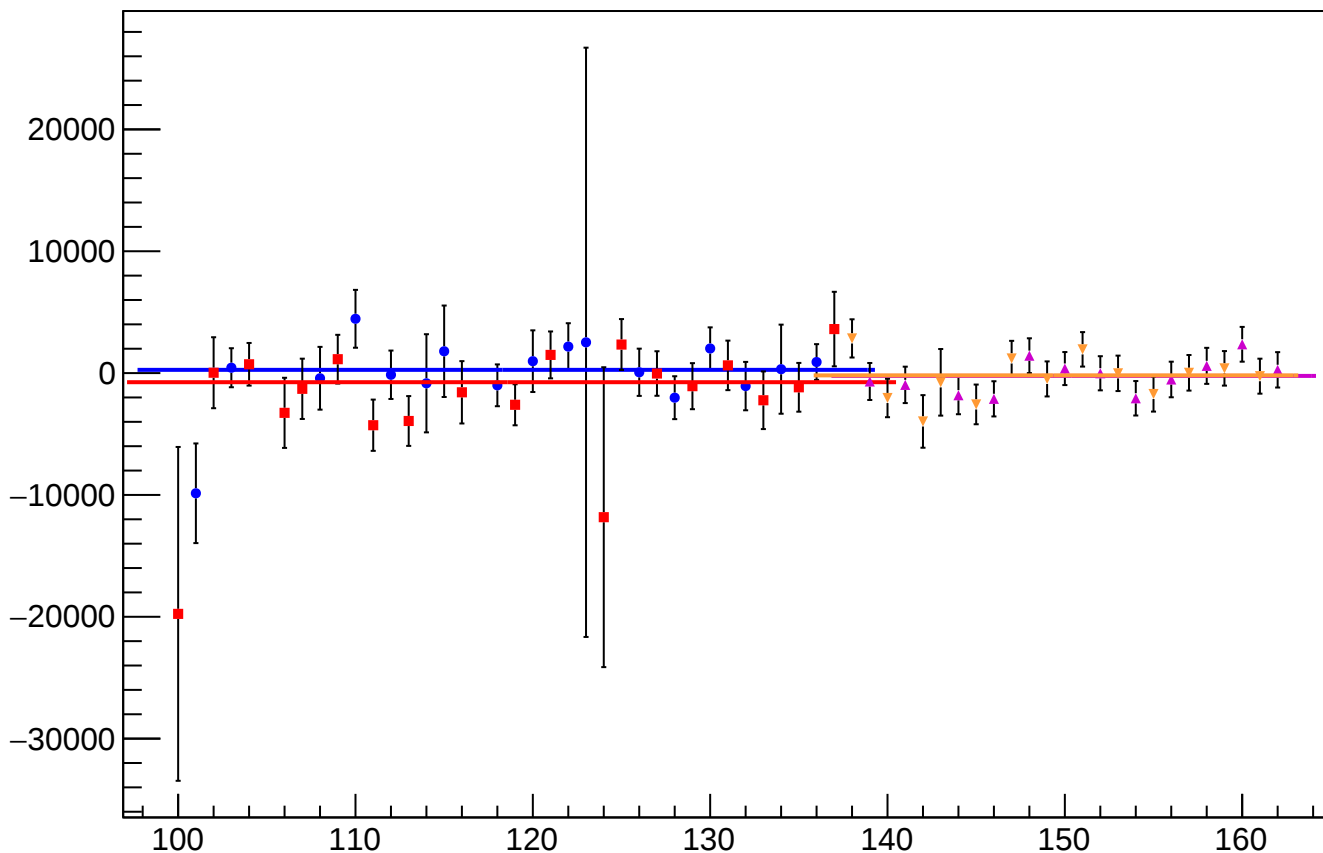
Right: 3663.316+/-0.714  $\chi^2/\text{NDF}$ : 932858.8/35

In: 4166.873+/-0.738  $\chi^2/\text{NDF}$ : 1027585.8/28

Out: 3862.464+/-0.686  $\chi^2/\text{NDF}$ : 1548612.7/31

All: 4003.641+/-0.502  $\chi^2/\text{NDF}$ : 2667512.5/60

dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 265.987 $\pm$ 523.529  $\chi^2$ /NDF: 14.6/16

Left Out: -187.828 $\pm$ 430.284  $\chi^2$ /NDF:14.9/12

Right Out: -747.421 $\pm$ 511.778  $\chi^2$ /NDF: 18.4/18

Left In: -230.849 $\pm$ 418.525  $\chi^2$ /NDF:10.1/11

Left: -209.934 $\pm$ 300.013  $\chi^2$ /NDF: 25.1/24

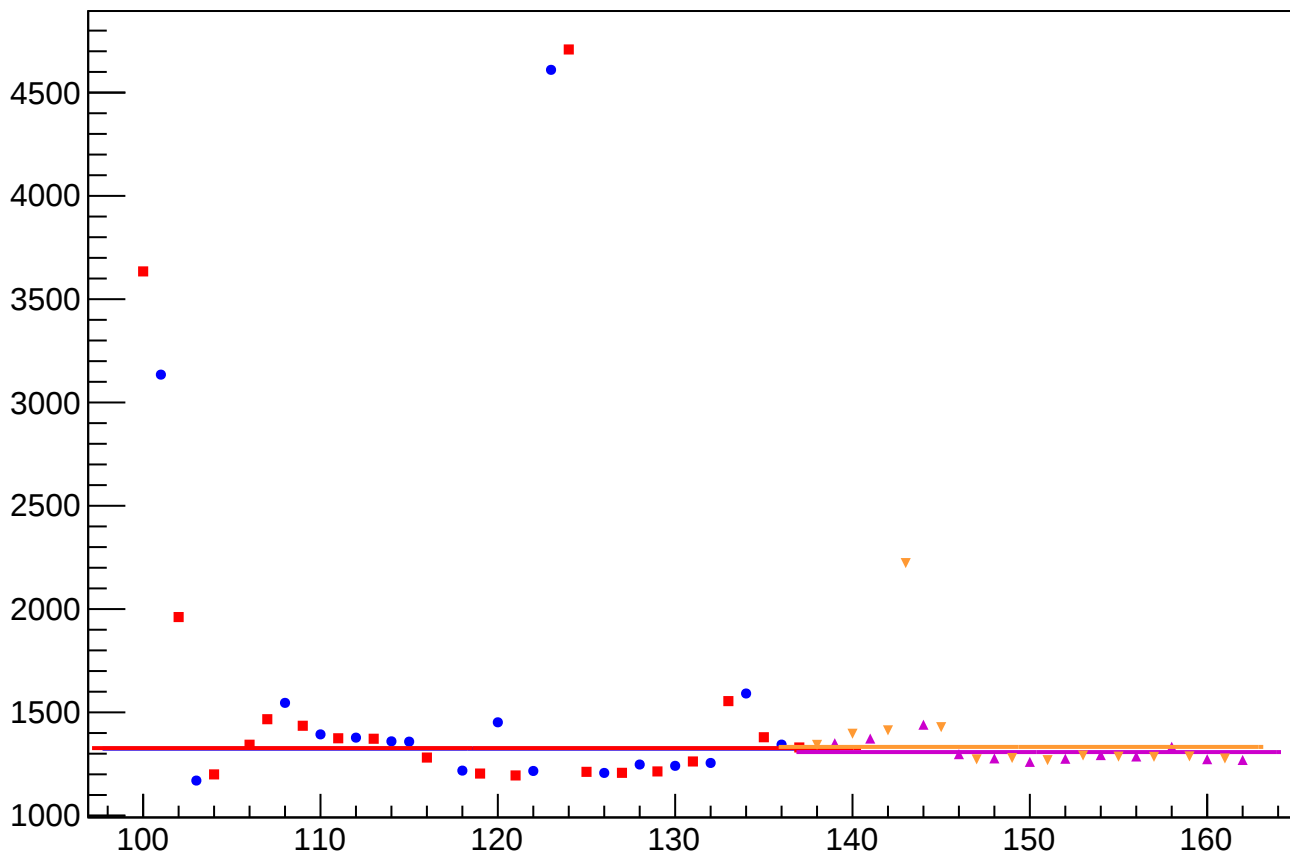
Right: -252.218 $\pm$ 365.966  $\chi^2$ /NDF: 35.0/35

In: -37.130 $\pm$ 326.904  $\chi^2$ /NDF:25.3/28

Out: -419.576 $\pm$ 329.347  $\chi^2$ /NDF:34.1/31

All: -226.929 $\pm$ 232.015  $\chi^2$ /NDF: 60.0/60

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1324.281+/-0.370  $\chi^2/\text{NDF}$ : 514089.5/16

Left Out: 1332.787+/-0.304  $\chi^2/\text{NDF}$ : 246353.8/12

Right Out: 1326.975+/-0.362  $\chi^2/\text{NDF}$ : 392077.2/18

Left In: 1307.799+/-0.296  $\chi^2/\text{NDF}$ : 28178.9/11

Left: 1319.947+/-0.212  $\chi^2/\text{NDF}$ : 277998.8/24

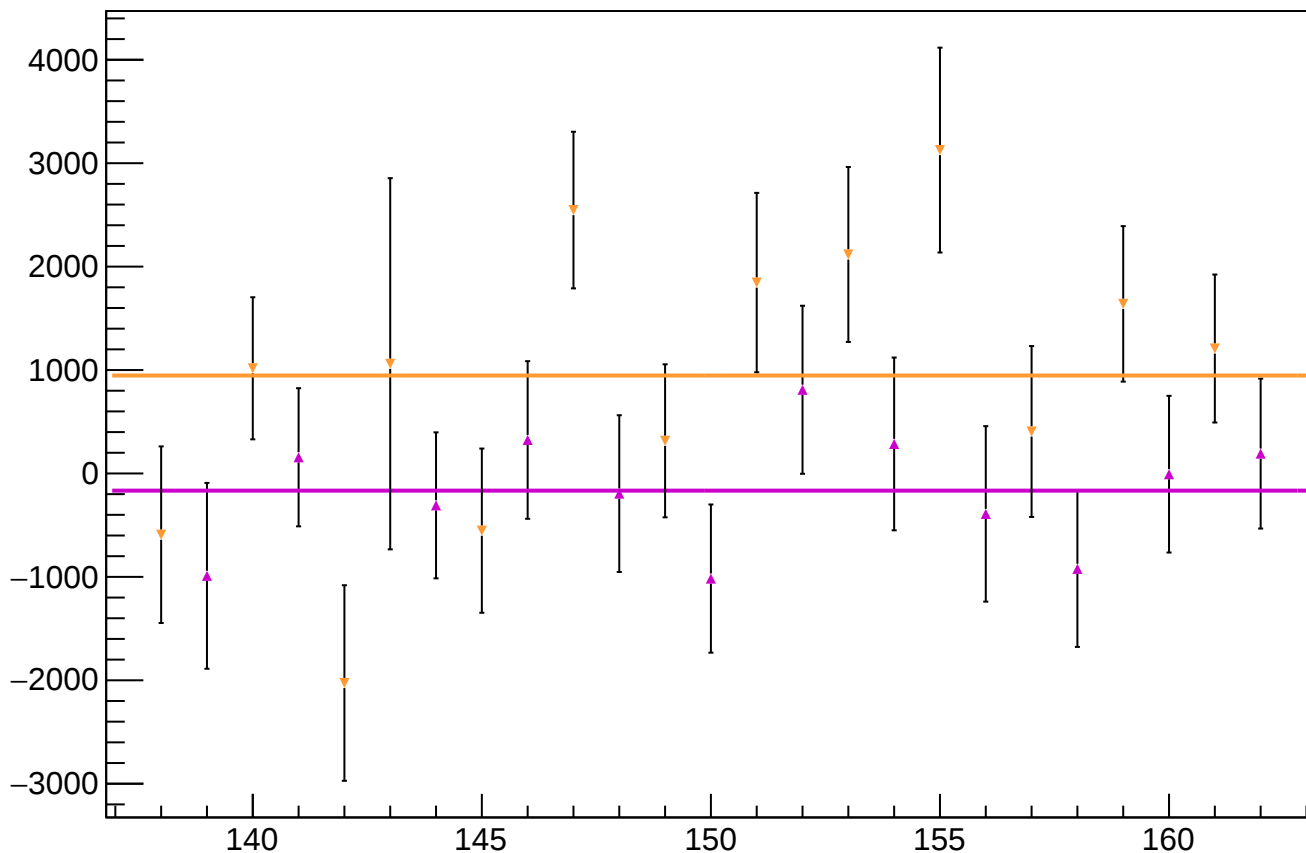
Right: 1325.659+/-0.259  $\chi^2/\text{NDF}$ : 906193.7/35

In: 1314.225+/-0.231  $\chi^2/\text{NDF}$ : 543477.9/28

Out: 1330.380+/-0.233  $\chi^2/\text{NDF}$ : 638582.1/31

All: 1322.243+/-0.164  $\chi^2/\text{NDF}$ : 1184483.9/60

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 946.966+/-229.339  $\chi^2/\text{NDF}$ :31.2/12

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

Left In: -166.085+/-220.130  $\chi^2/\text{NDF}$ :6.0/11

Left: 367.646+/-158.811  $\chi^2/\text{NDF}$ : 49.5/24

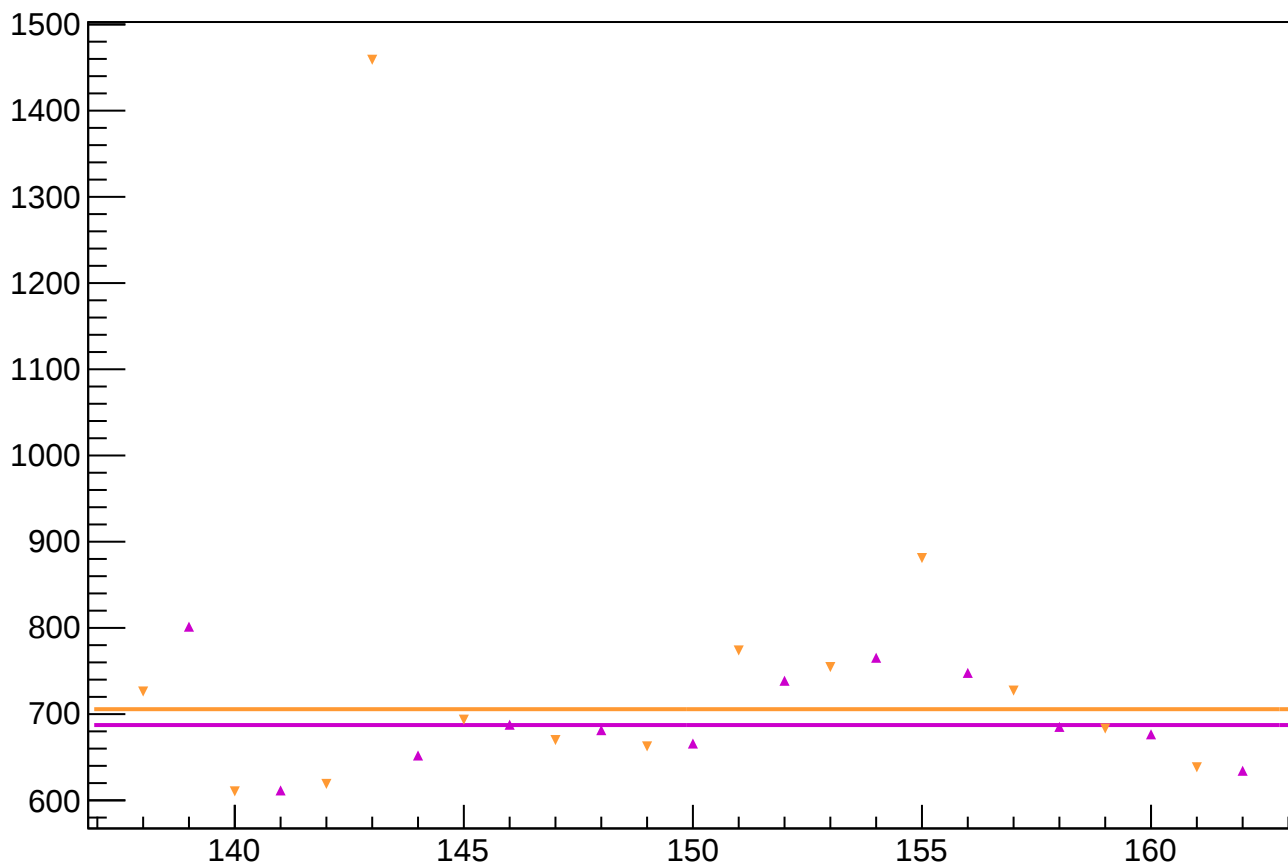
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -166.085+/-220.130  $\chi^2/\text{NDF}$ :6.0/11

Out: 946.966+/-229.339  $\chi^2/\text{NDF}$ :31.2/12

All: 367.646+/-158.811  $\chi^2/\text{NDF}$ : 49.5/24

asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 705.725+/-0.162  $\chi^2/\text{NDF}$ :523211.9/12

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

Left In: 687.322+/-0.156  $\chi^2/\text{NDF}$ :111713.3/11

Left: 696.147+/-0.112  $\chi^2/\text{NDF}$ : 641628.3/24

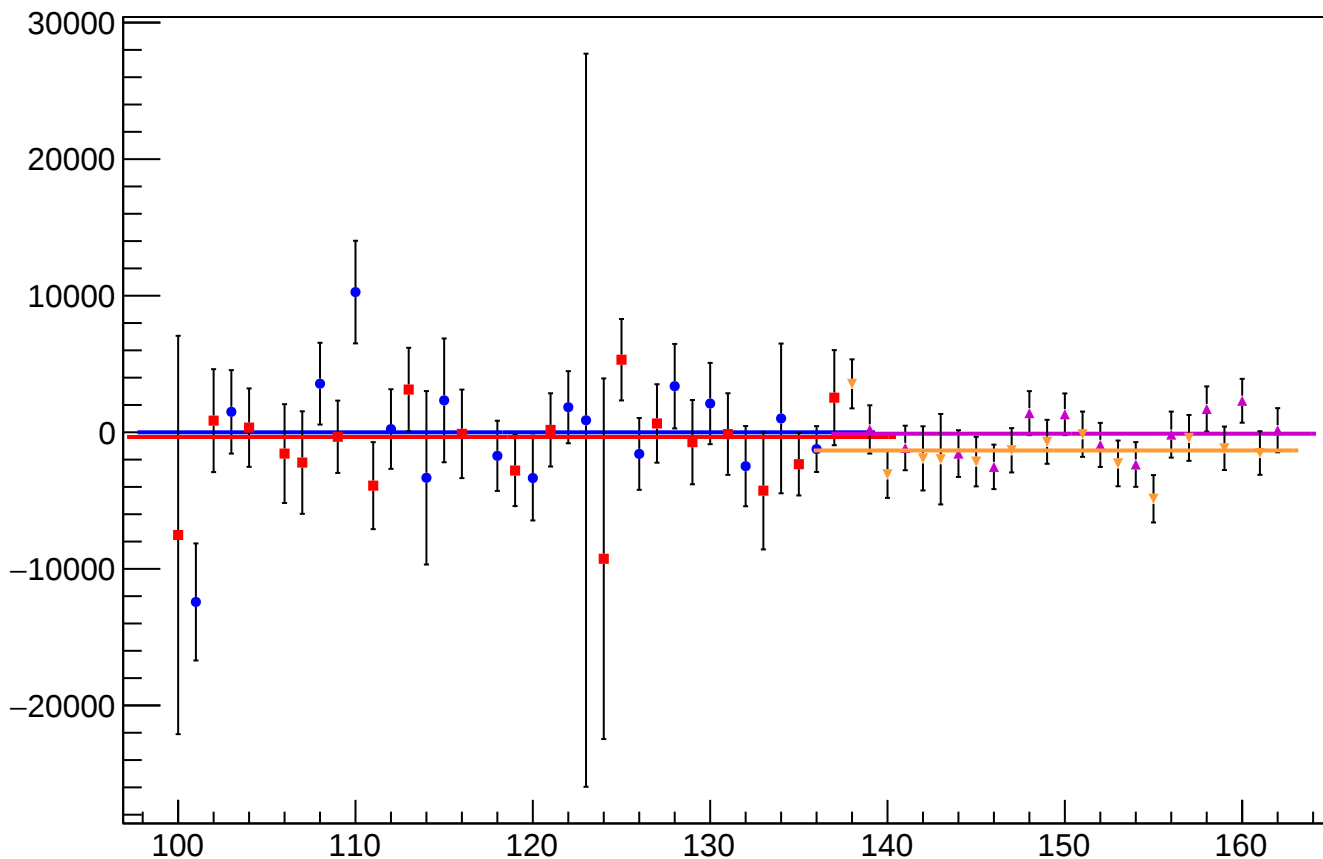
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 687.322+/-0.156  $\chi^2/\text{NDF}$ :111713.3/11

Out: 705.725+/-0.162  $\chi^2/\text{NDF}$ :523211.9/12

All: 696.147+/-0.112  $\chi^2/\text{NDF}$ : 641628.3/24

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In:  $-2.204 \pm 745.061$   $\chi^2/\text{NDF}$ : 23.5/16

Left Out:  $-1330.057 \pm 488.890$   $\chi^2/\text{NDF}$ : 14.2/12

Right Out:  $-345.148 \pm 733.723$   $\chi^2/\text{NDF}$ : 10.7/18

Left In:  $-103.231 \pm 472.678$   $\chi^2/\text{NDF}$ : 10.8/11

Left:  $-695.965 \pm 339.821$   $\chi^2/\text{NDF}$ : 28.2/24

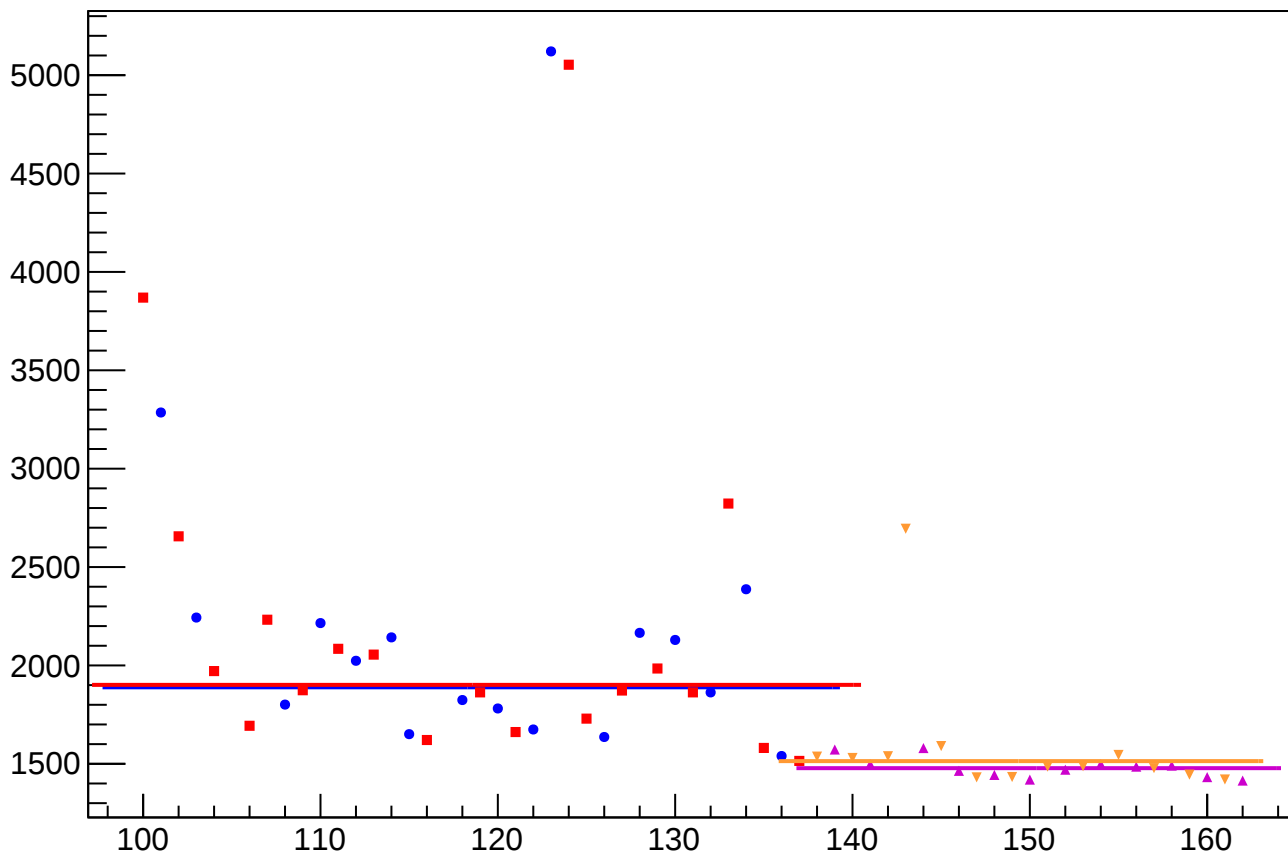
Right:  $-176.305 \pm 522.783$   $\chi^2/\text{NDF}$ : 34.3/35

In:  $-74.238 \pm 399.132$   $\chi^2/\text{NDF}$ : 34.3/28

Out:  $-1027.230 \pm 406.847$   $\chi^2/\text{NDF}$ : 26.1/31

All:  $-541.612 \pm 284.917$   $\chi^2/\text{NDF}$ : 63.2/60

asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1888.810 $\pm$ 0.527  $\chi^2$ /NDF: 465842.8/16

Left Out: 1513.689 $\pm$ 0.346  $\chi^2$ /NDF: 282106.4/12

Right Out: 1901.248 $\pm$ 0.519  $\chi^2$ /NDF: 461424.3/18

Left In: 1477.867 $\pm$ 0.334  $\chi^2$ /NDF: 22304.0/11

Left: 1495.175 $\pm$ 0.240  $\chi^2$ /NDF: 309960.2/24

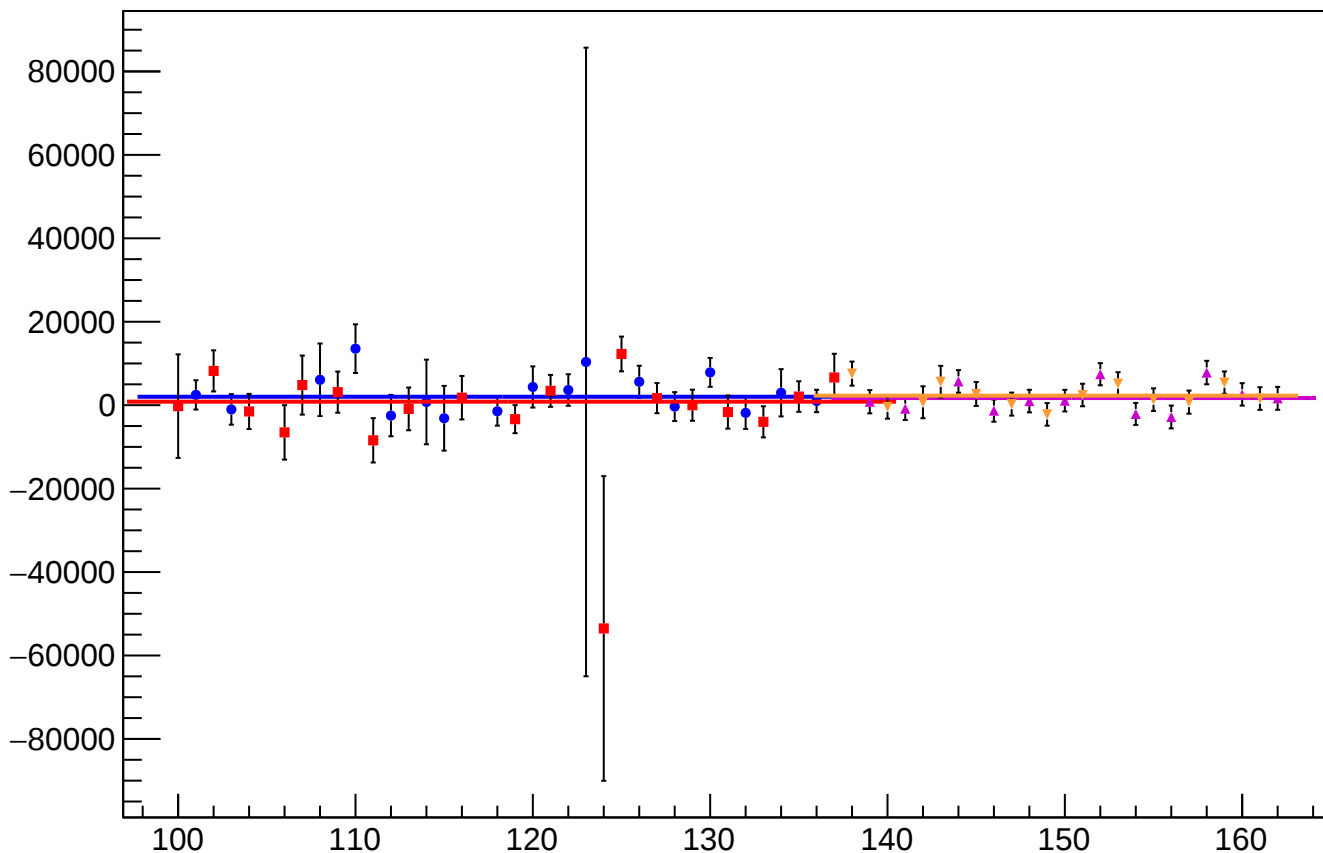
Right: 1895.125 $\pm$ 0.370  $\chi^2$ /NDF: 927550.0/35

In: 1595.800 $\pm$ 0.282  $\chi^2$ /NDF: 921973.1/28

Out: 1632.853 $\pm$ 0.288  $\chi^2$ /NDF: 1129977.6/31

All: 1613.972 $\pm$ 0.201  $\chi^2$ /NDF: 2060404.0/60

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



Right In: 2021.418+/-1035.639  $\chi^2/\text{NDF}$ : 12.9/16

Left Out: 2286.726+/-794.017  $\chi^2/\text{NDF}$ : 11.5/12

Right Out: 842.423+/-1051.980  $\chi^2/\text{NDF}$ : 22.7/18

Left In: 1709.331+/-779.992  $\chi^2/\text{NDF}$ : 18.8/11

Left: 1992.884+/-556.430  $\chi^2/\text{NDF}$ : 30.6/24

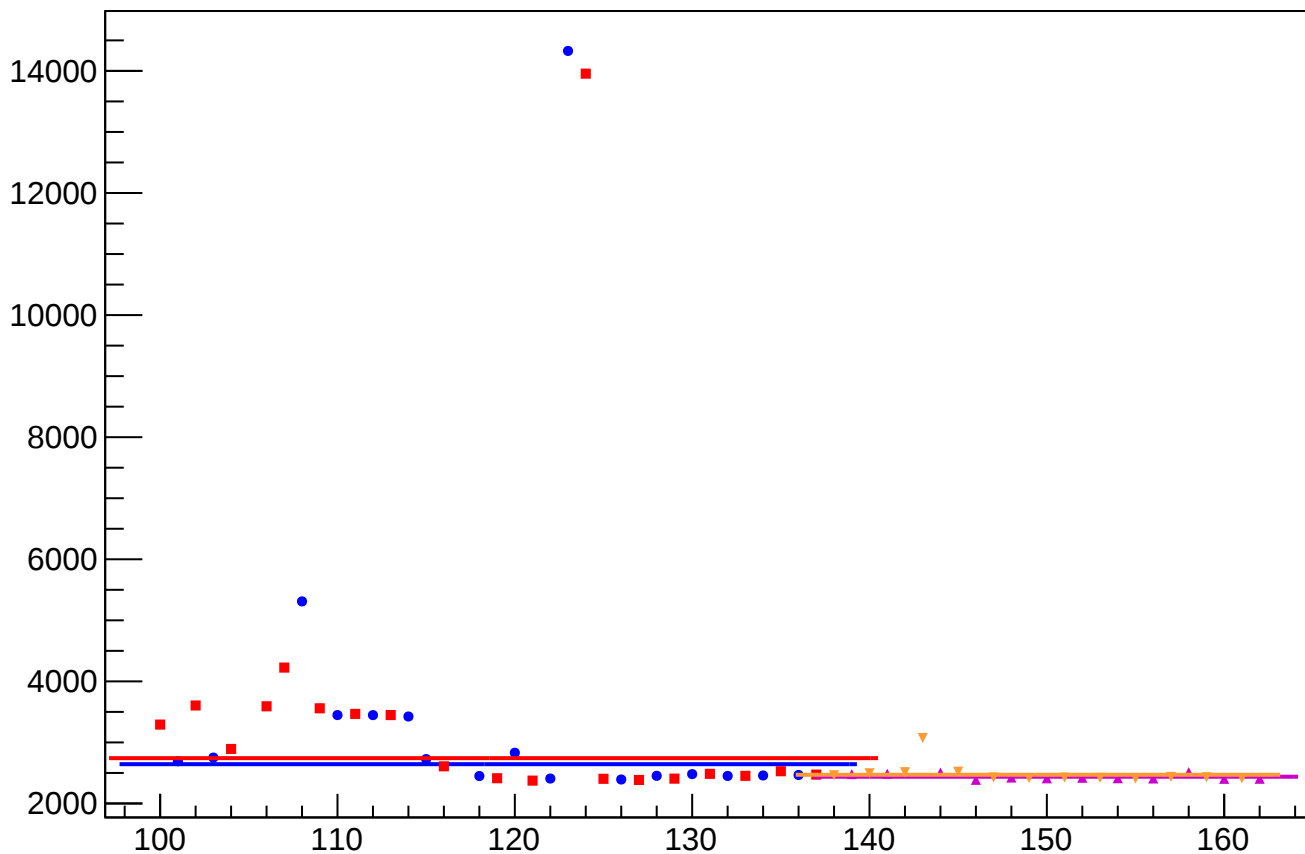
Right: 1441.149+/-738.017  $\chi^2/\text{NDF}$ : 36.2/35

In: 1822.286+/-623.050  $\chi^2/\text{NDF}$ : 31.8/28

Out: 1762.539+/-633.756  $\chi^2/\text{NDF}$ : 35.4/31

All: 1792.921+/-444.300  $\chi^2/\text{NDF}$ : 67.2/60

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



Right In: 2643.525 $\pm$ 0.732  $\chi^2$ /NDF: 392705.3/16

Left Out: 2470.285 $\pm$ 0.561  $\chi^2$ /NDF: 56188.0/12

Right Out: 2742.543 $\pm$ 0.744  $\chi^2$ /NDF: 628009.1/18

Left In: 2438.201 $\pm$ 0.552  $\chi^2$ /NDF: 6017.5/11

Left: 2453.957 $\pm$ 0.393  $\chi^2$ /NDF: 63867.4/24

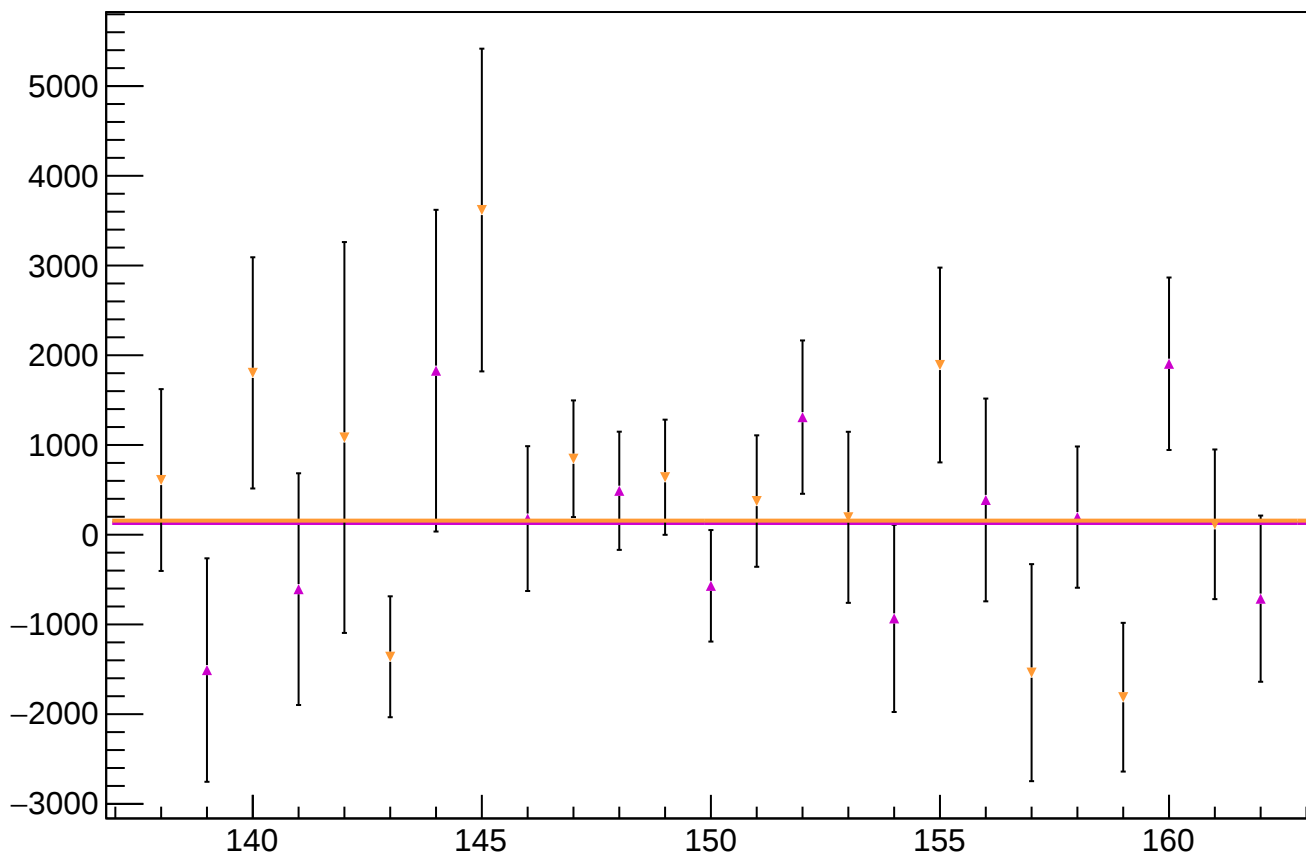
Right: 2692.259 $\pm$ 0.522  $\chi^2$ /NDF: 1029712.7/35

In: 2512.515 $\pm$ 0.441  $\chi^2$ /NDF: 448883.3/28

Out: 2569.097 $\pm$ 0.448  $\chi^2$ /NDF: 769538.8/31

All: 2540.324 $\pm$ 0.314  $\chi^2$ /NDF: 1226528.9/60

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



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

Left Out: 156.824+/-246.326  $\chi^2/\text{NDF}$ :22.7/12

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

Left In: 130.785+/-258.908  $\chi^2/\text{NDF}$ :11.8/11

Left: 144.453+/-178.461  $\chi^2/\text{NDF}$ : 34.5/24

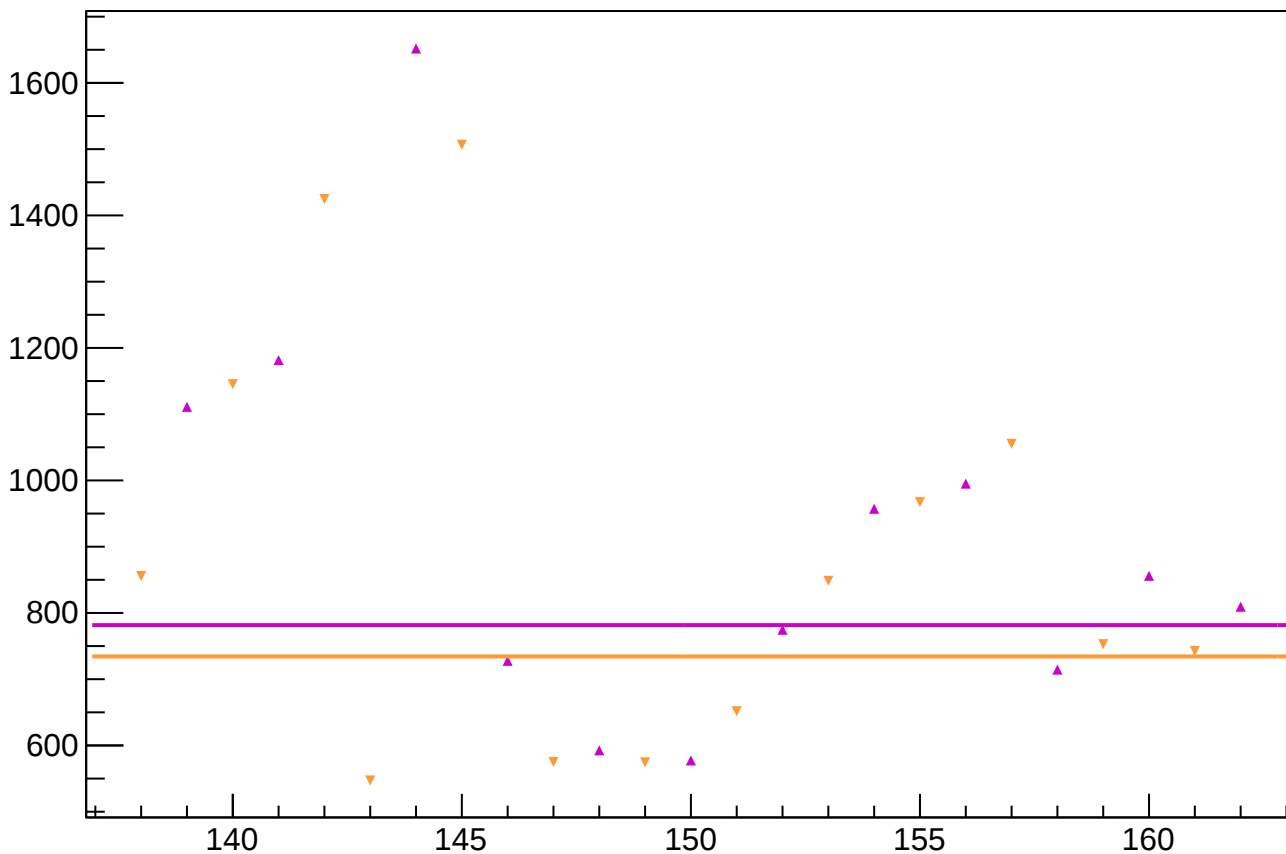
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 130.785+/-258.908  $\chi^2/\text{NDF}$ :11.8/11

Out: 156.824+/-246.326  $\chi^2/\text{NDF}$ :22.7/12

All: 144.453+/-178.461  $\chi^2/\text{NDF}$ : 34.5/24

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



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

Left Out: 734.321+/-0.174  $\chi^2/\text{NDF}$ :1488780.7/12

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

Left In: 781.629+/-0.183  $\chi^2/\text{NDF}$ :1349326.9/11

Left: 756.798+/-0.126  $\chi^2/\text{NDF}$ : 2873157.3/24

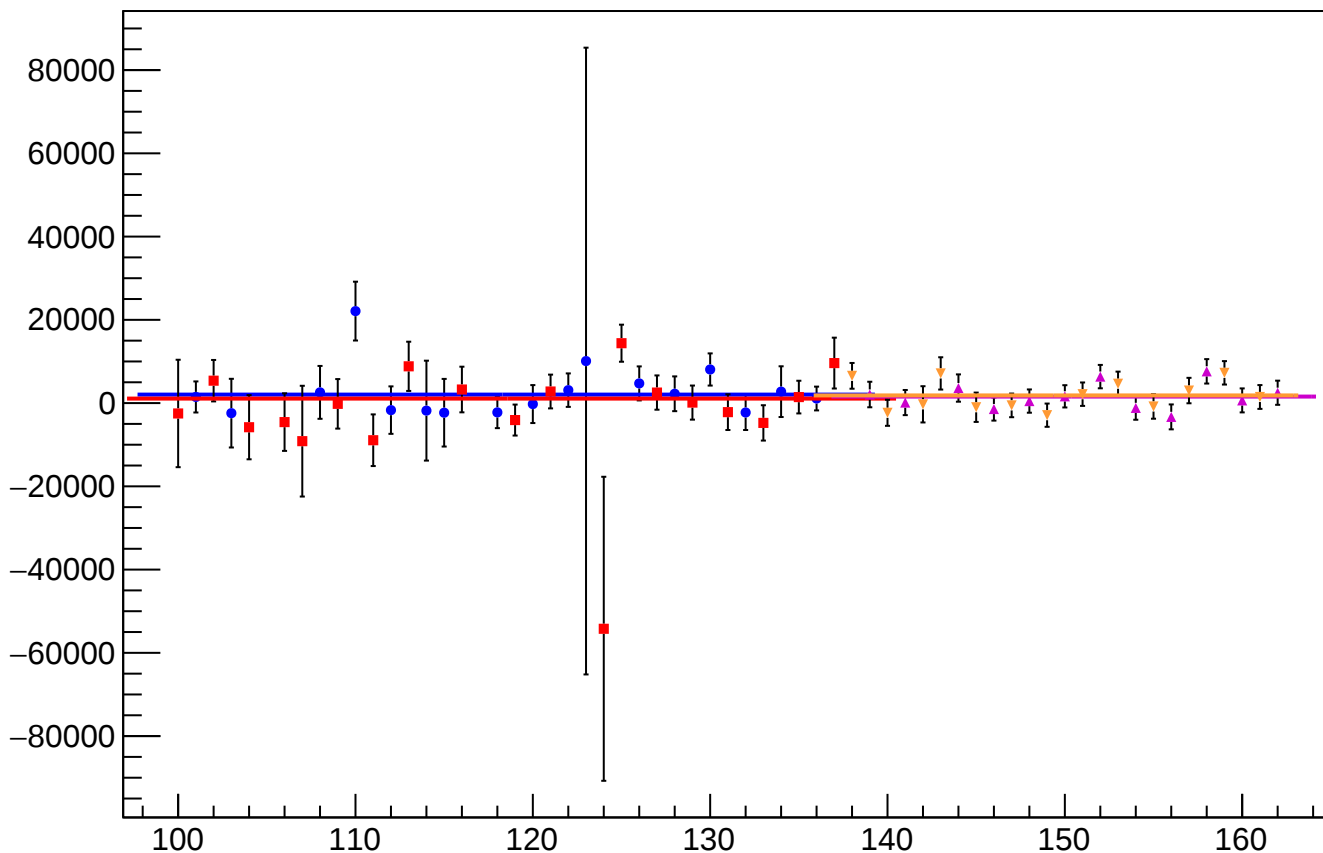
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 781.629+/-0.183  $\chi^2/\text{NDF}$ :1349326.9/11

Out: 734.321+/-0.174  $\chi^2/\text{NDF}$ :1488780.7/12

All: 756.798+/-0.126  $\chi^2/\text{NDF}$ : 2873157.3/24

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2037.803+/-1151.419  $\chi^2$ /NDF: 14.8/16

Left Out: 1841.783+/-853.035  $\chi^2$ /NDF:16.1/12

Right Out: 1080.125+/-1186.666  $\chi^2$ /NDF: 25.3/18

Left In: 1565.420+/-838.287  $\chi^2$ /NDF:12.9/11

Left: 1701.192+/-597.905  $\chi^2$ /NDF: 29.0/24

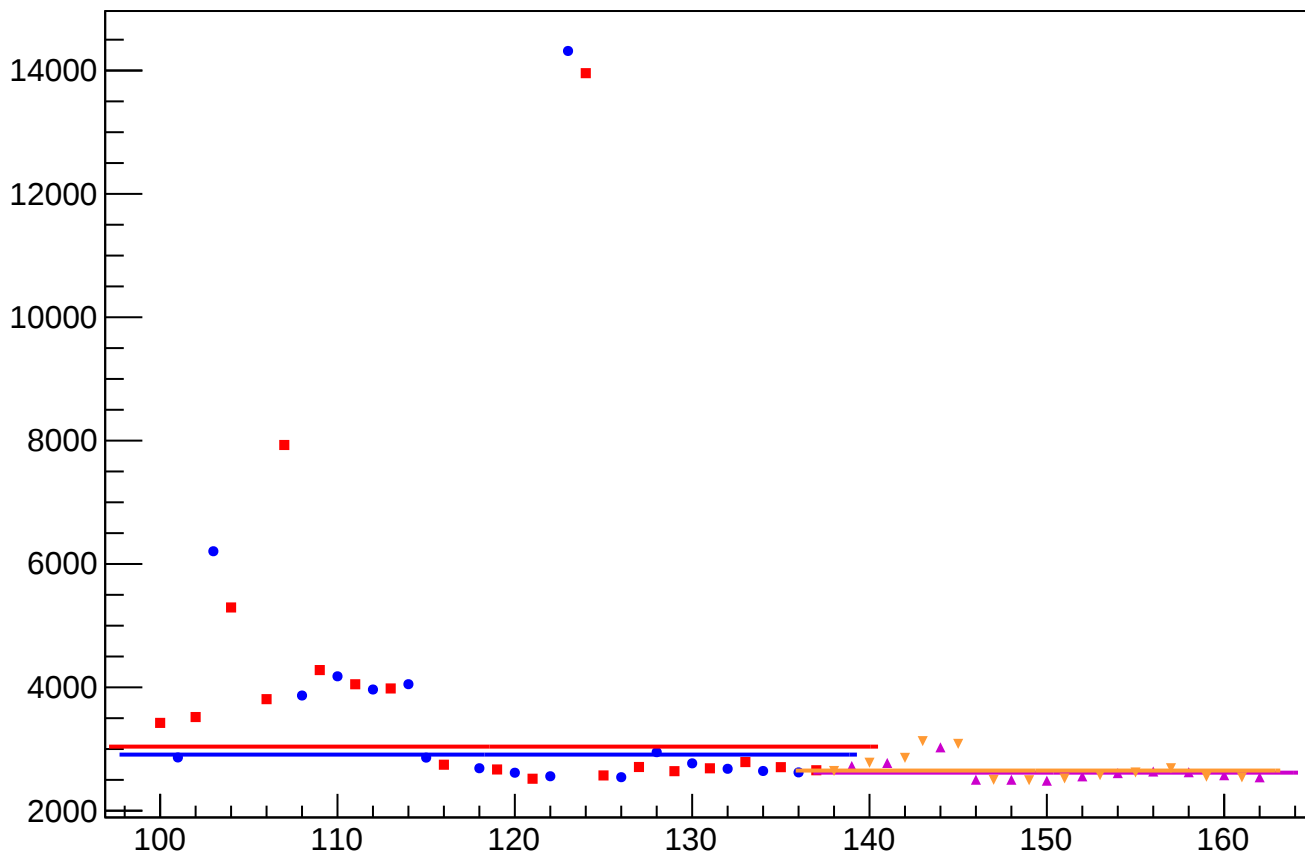
Right: 1573.398+/-826.356  $\chi^2$ /NDF: 40.5/35

In: 1729.067+/-677.703  $\chi^2$ /NDF:27.9/28

Out: 1582.291+/-692.645  $\chi^2$ /NDF:41.7/31

All: 1657.279+/-484.405  $\chi^2$ /NDF: 69.6/60

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2909.732+/-0.814  $\chi^2/\text{NDF}$ : 641894.7/16

Left Out: 2651.104+/-0.603  $\chi^2/\text{NDF}$ : 91434.8/12

Right Out: 3039.118+/-0.839  $\chi^2/\text{NDF}$ : 1011306.5/18

Left In: 2616.945+/-0.593  $\chi^2/\text{NDF}$ : 53458.8/11

Left: 2633.727+/-0.423  $\chi^2/\text{NDF}$ : 146525.0/24

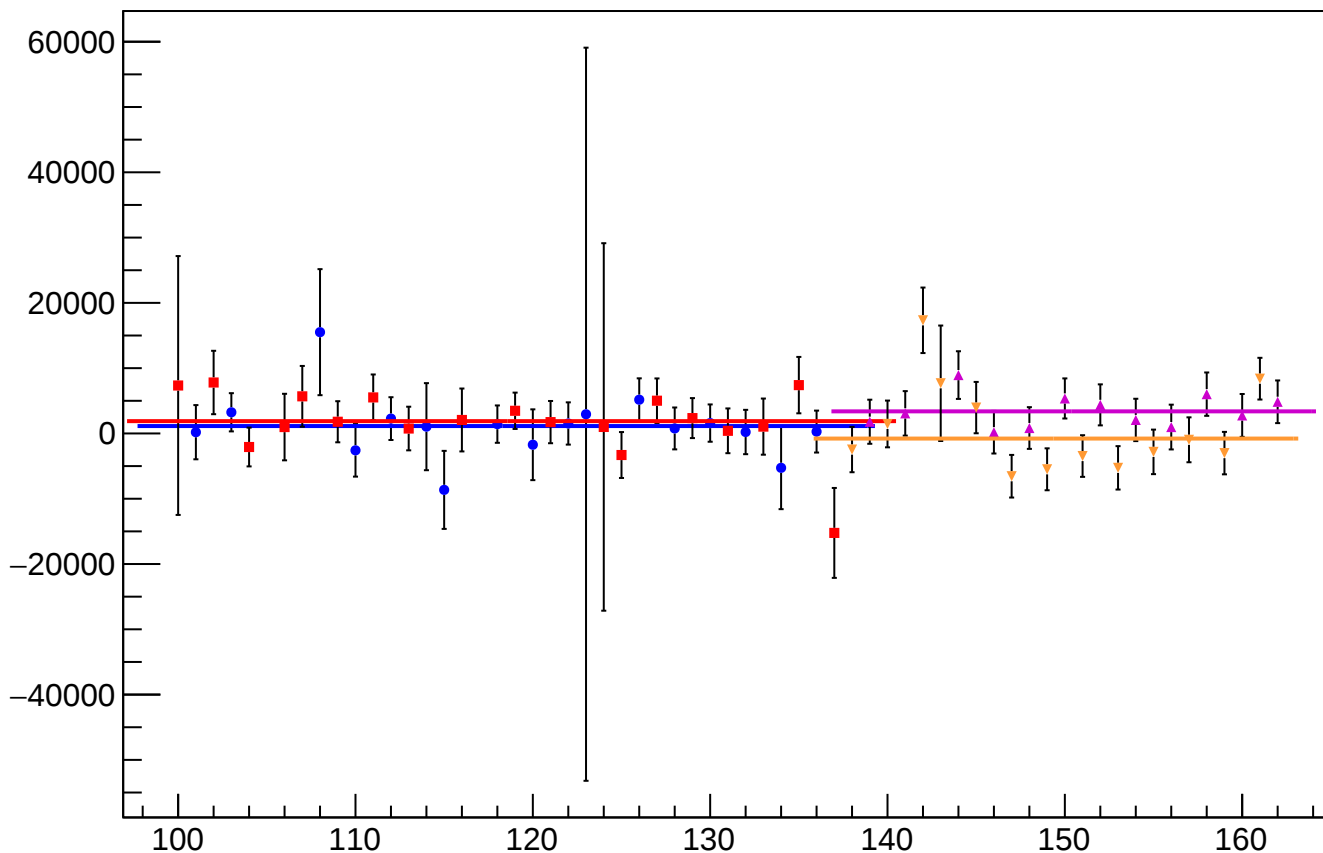
Right: 2972.475+/-0.584  $\chi^2/\text{NDF}$ : 1665447.8/35

In: 2718.374+/-0.479  $\chi^2/\text{NDF}$ : 779874.0/28

Out: 2783.298+/-0.490  $\chi^2/\text{NDF}$ : 1243720.4/31

All: 2750.128+/-0.343  $\chi^2/\text{NDF}$ : 2032571.8/60

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



Right In: 1131.802+/-926.744  $\chi^2/\text{NDF}$ : 9.5/16

Left Out: -783.786+/-989.733  $\chi^2/\text{NDF}$ :32.9/12

Right Out: 1884.987+/-887.115  $\chi^2/\text{NDF}$ : 16.6/18

Left In: 3383.426+/-951.129  $\chi^2/\text{NDF}$ :6.2/11

Left: 1382.673+/-685.791  $\chi^2/\text{NDF}$ : 48.3/24

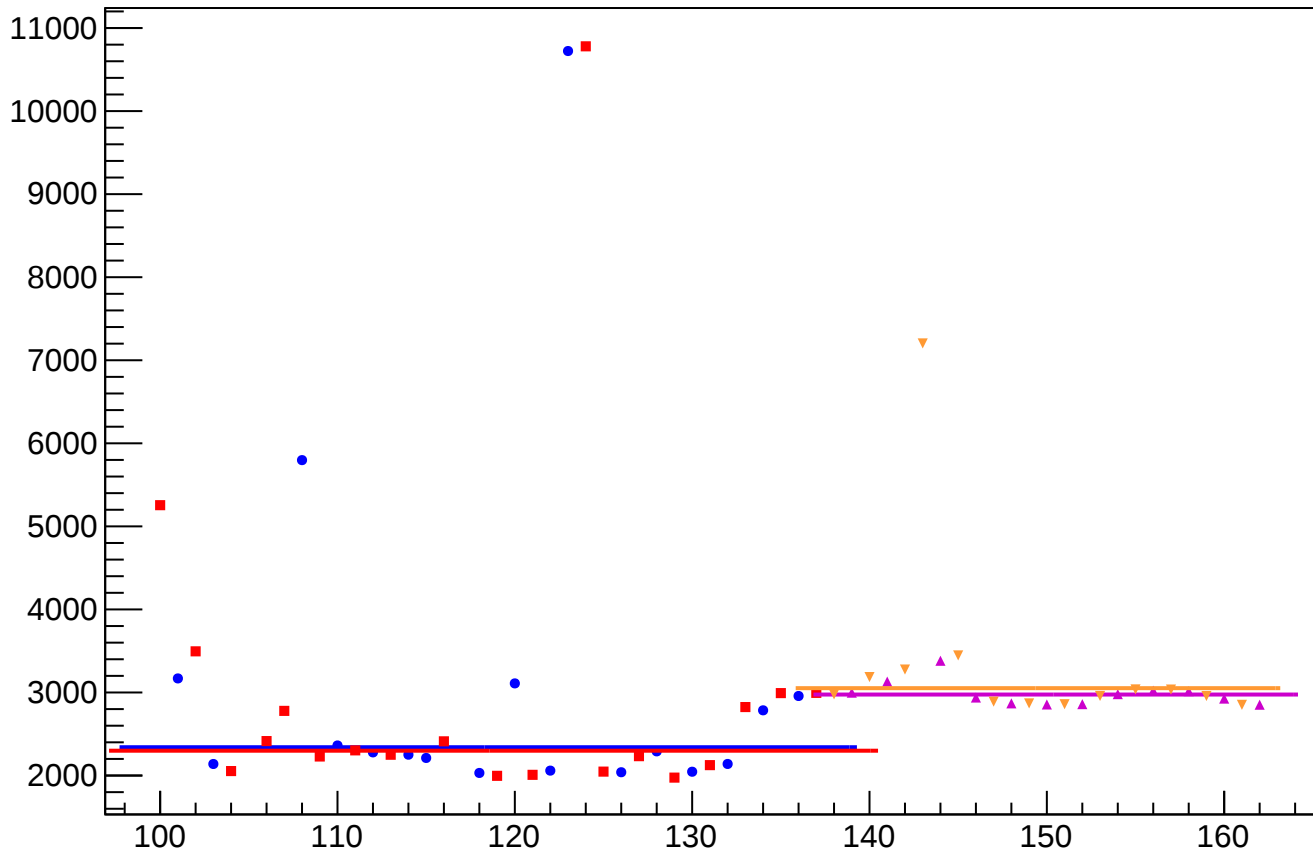
Right: 1524.842+/-640.837  $\chi^2/\text{NDF}$ : 26.4/35

In: 2228.380+/-663.761  $\chi^2/\text{NDF}$ :18.5/28

Out: 696.083+/-660.596  $\chi^2/\text{NDF}$ :53.6/31

All: 1458.570+/-468.227  $\chi^2/\text{NDF}$ : 74.8/60

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



Right In:  $2340.877 \pm 0.655$   $\chi^2/\text{NDF}: 600471.2/16$

Left Out:  $3051.961 \pm 0.700$   $\chi^2/\text{NDF}: 498802.9/12$

Right Out:  $2298.949 \pm 0.627$   $\chi^2/\text{NDF}: 566102.7/18$

Left In:  $2975.181 \pm 0.673$   $\chi^2/\text{NDF}: 41216.7/11$

Left:  $3012.045 \pm 0.485$   $\chi^2/\text{NDF}: 546277.0/24$

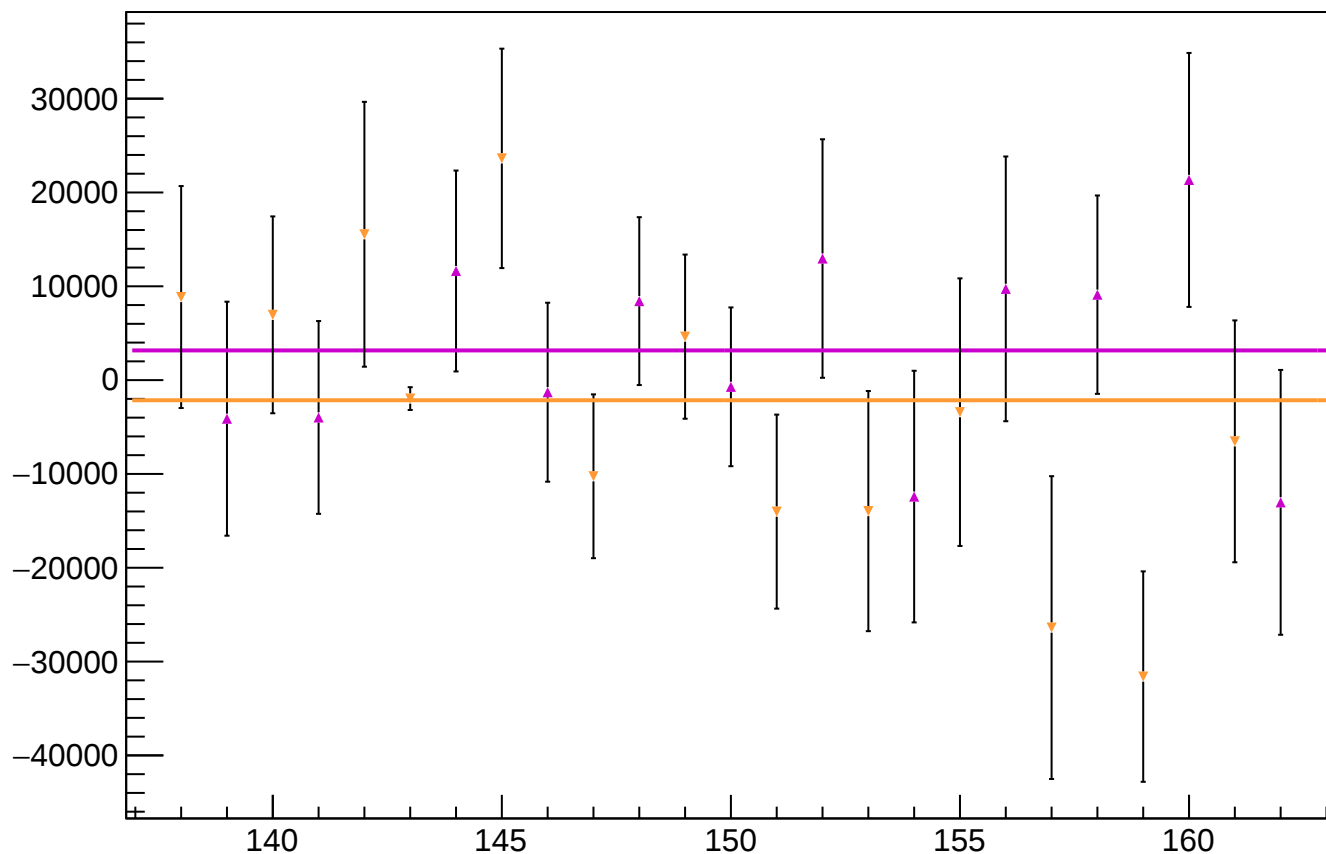
Right:  $2318.982 \pm 0.453$   $\chi^2/\text{NDF}: 1168711.7/35$

In:  $2649.793 \pm 0.469$   $\chi^2/\text{NDF}: 1097987.3/28$

Out:  $2634.129 \pm 0.467$   $\chi^2/\text{NDF}: 1707294.3/31$

All:  $2641.920 \pm 0.331$   $\chi^2/\text{NDF}: 2805841.4/60$

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



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

Left Out:  $-2147.089 \pm 1138.515$   $\chi^2/\text{NDF}: 21.0/12$

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

Left In:  $3164.751 \pm 3189.882$   $\chi^2/\text{NDF}: 7.8/11$

Left:  $-1546.884 \pm 1072.265$   $\chi^2/\text{NDF}: 31.3/24$

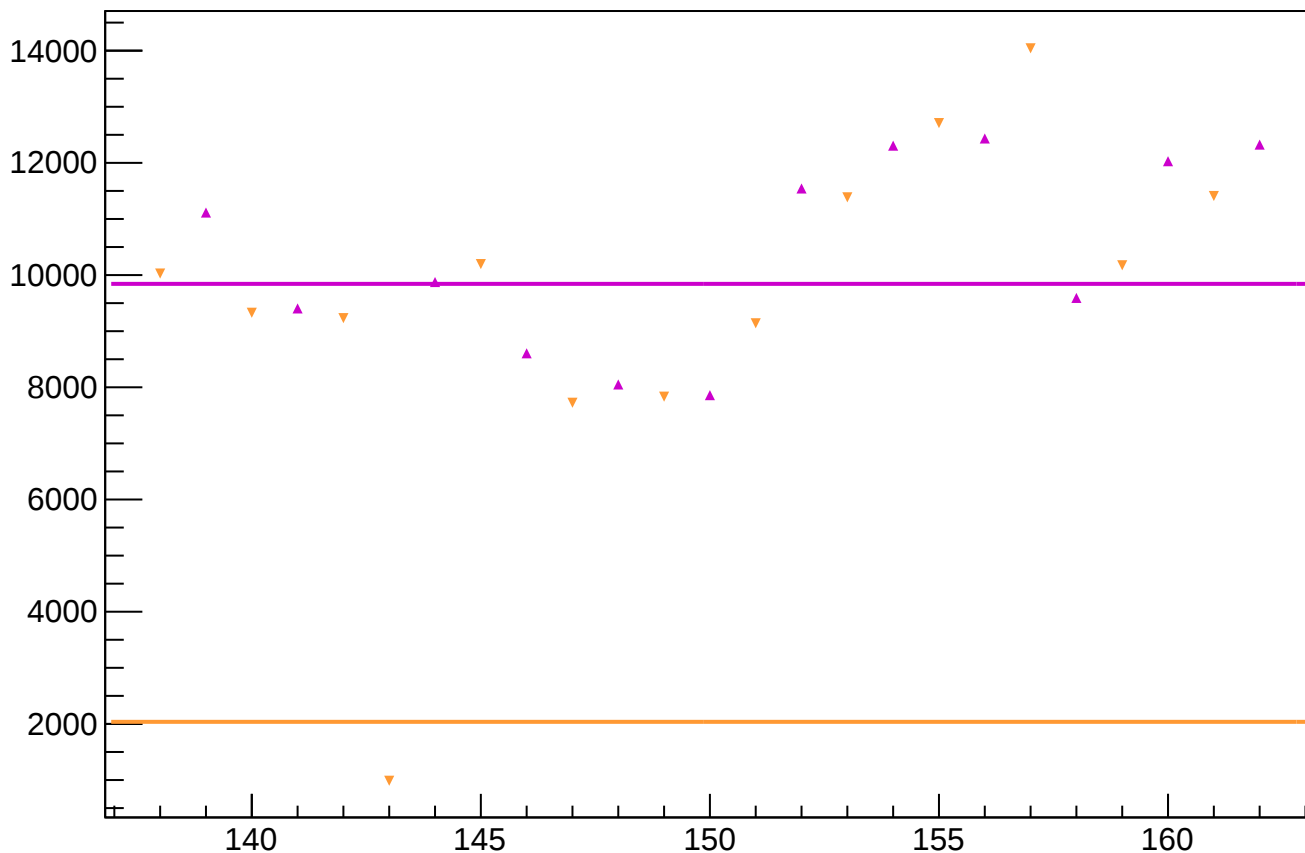
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $3164.751 \pm 3189.882$   $\chi^2/\text{NDF}: 7.8/11$

Out:  $-2147.089 \pm 1138.515$   $\chi^2/\text{NDF}: 21.0/12$

All:  $-1546.884 \pm 1072.265$   $\chi^2/\text{NDF}: 31.3/24$

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



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

Left Out: 2037.349+/-0.805  $\chi^2/\text{NDF}$ :12942214.6/12

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

Left In: 9843.489+/-2.256  $\chi^2/\text{NDF}$ :534182.5/11

Left: 2919.394+/-0.758  $\chi^2/\text{NDF}$ : 24100202.7/24

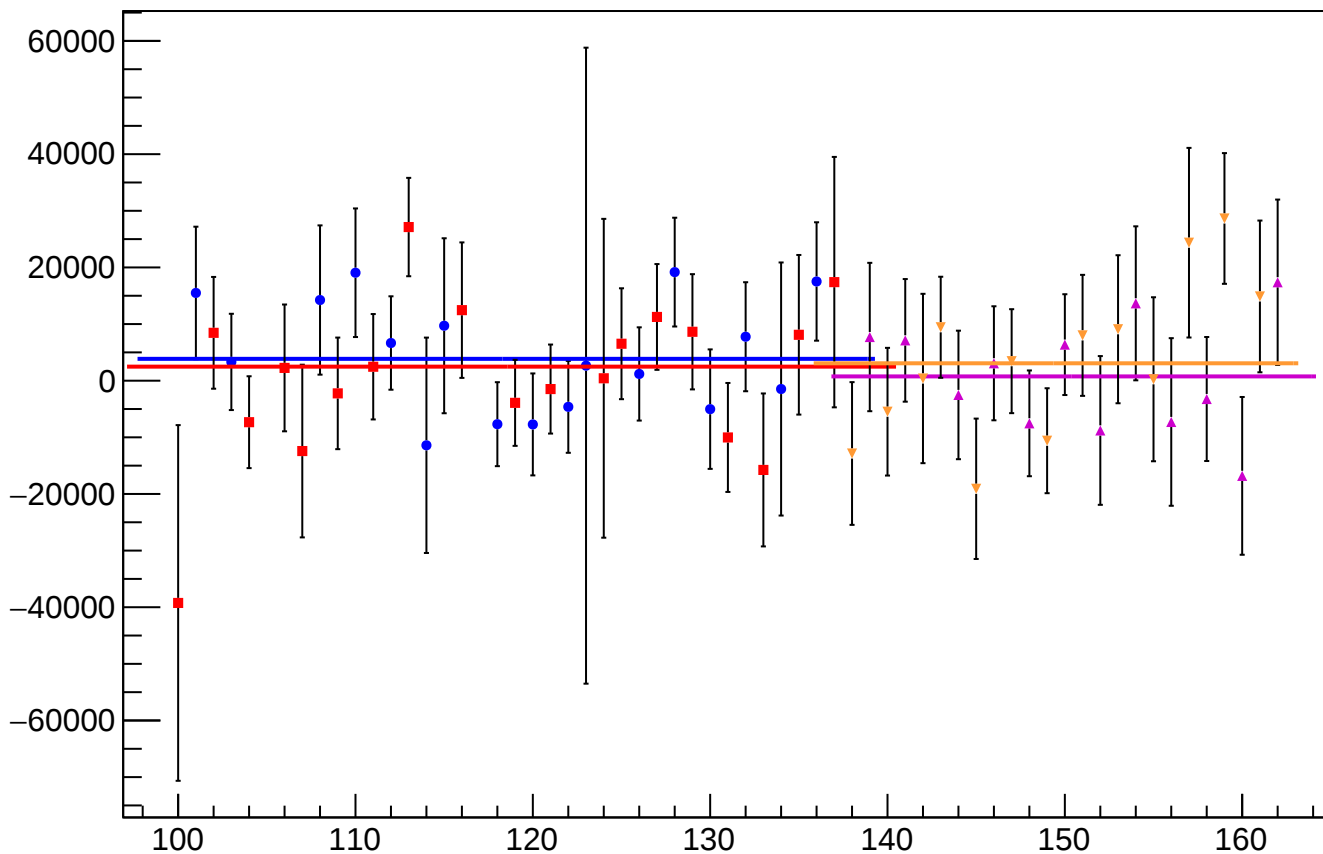
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9843.489+/-2.256  $\chi^2/\text{NDF}$ :534182.5/11

Out: 2037.349+/-0.805  $\chi^2/\text{NDF}$ :12942214.6/12

All: 2919.394+/-0.758  $\chi^2/\text{NDF}$ : 24100202.7/24

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3859.866 $\pm$ 2508.782  $\chi^2$ /NDF: 14.8/16

Left Out: 3073.643 $\pm$ 3206.549  $\chi^2$ /NDF:15.9/12

Right Out: 2482.925 $\pm$ 2421.310  $\chi^2$ /NDF: 20.0/18

Left In: 757.329 $\pm$ 3332.536  $\chi^2$ /NDF:6.7/11

Left: 1960.097 $\pm$ 2310.629  $\chi^2$ /NDF: 22.8/24

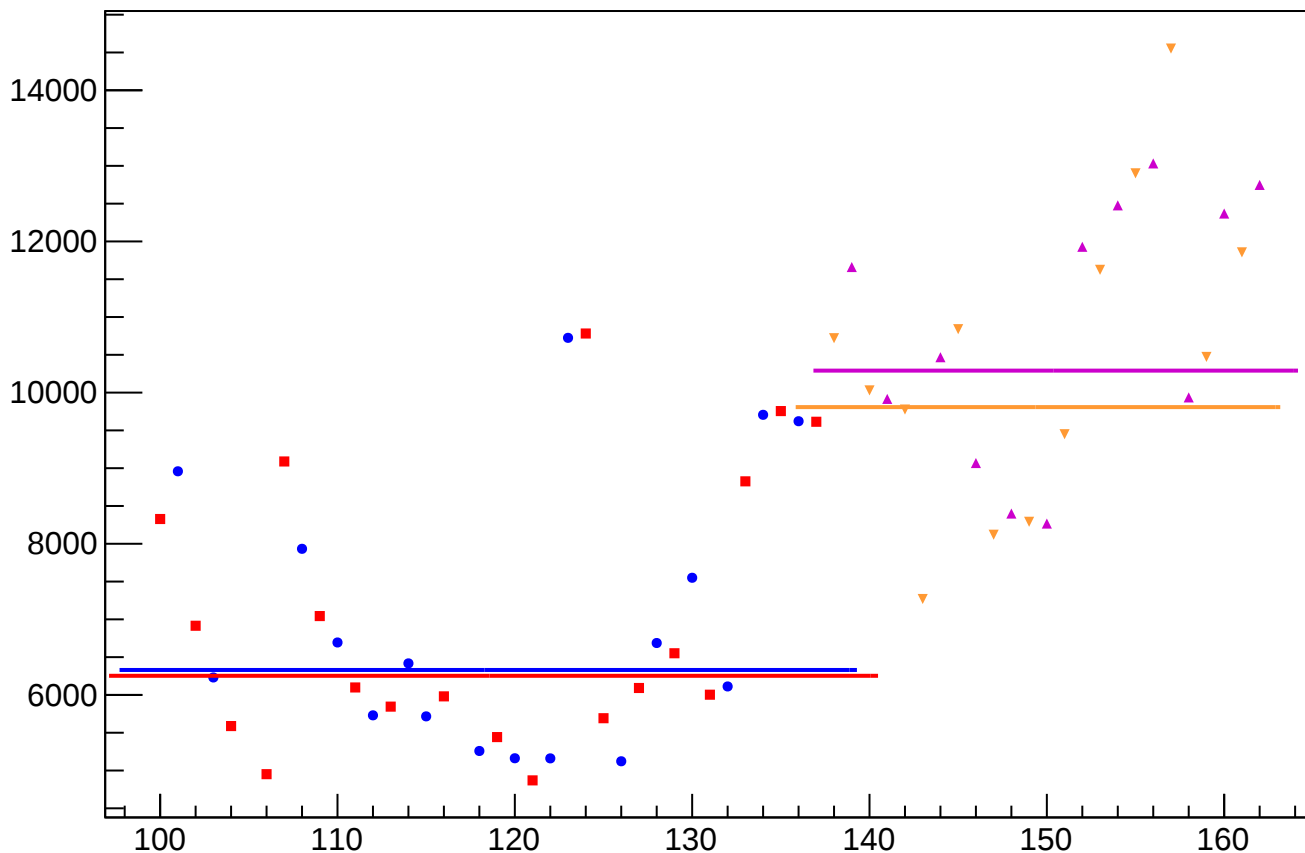
Right: 3146.972 $\pm$ 1742.228  $\chi^2$ /NDF: 35.0/35

In: 2737.592 $\pm$ 2004.315  $\chi^2$ /NDF:22.0/28

Out: 2697.437 $\pm$ 1932.294  $\chi^2$ /NDF:35.9/31

All: 2716.780 $\pm$ 1391.103  $\chi^2$ /NDF: 57.9/60

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6330.291+/-1.774  $\chi^2/\text{NDF}$ : 593395.6/16

Left Out: 9808.107+/-2.267  $\chi^2/\text{NDF}$ : 654396.5/12

Right Out: 6253.330+/-1.712  $\chi^2/\text{NDF}$ : 535355.5/18

Left In: 10290.876+/-2.356  $\chi^2/\text{NDF}$ : 494365.0/11

Left: 10040.194+/-1.634  $\chi^2/\text{NDF}$ : 1170555.8/24

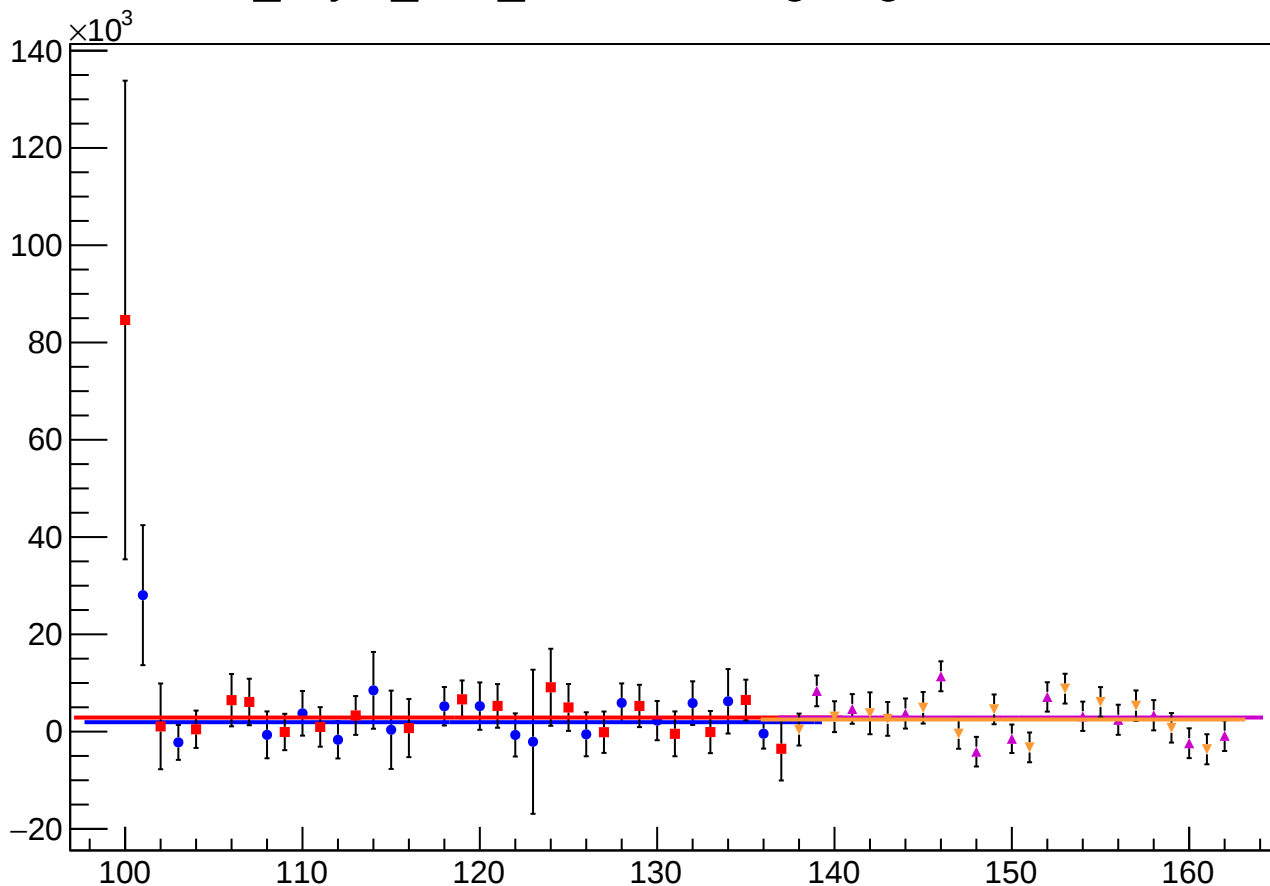
Right: 6290.444+/-1.232  $\chi^2/\text{NDF}$ : 1129725.5/35

In: 7762.937+/-1.417  $\chi^2/\text{NDF}$ : 2890804.1/28

Out: 7544.126+/-1.366  $\chi^2/\text{NDF}$ : 2755202.2/31

All: 7649.527+/-0.984  $\chi^2/\text{NDF}$ : 5658360.7/60

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



Right In:  $1936.744 \pm 1128.266$   $\chi^2/\text{NDF}: 11.3/16$

Left Out:  $2489.927 \pm 887.360$   $\chi^2/\text{NDF}: 16.7/12$

Right Out:  $2896.594 \pm 1086.848$   $\chi^2/\text{NDF}: 10.6/18$

Left In:  $2897.378 \pm 884.262$   $\chi^2/\text{NDF}: 25.0/11$

Left:  $2694.365 \pm 626.360$   $\chi^2/\text{NDF}: 41.7/24$

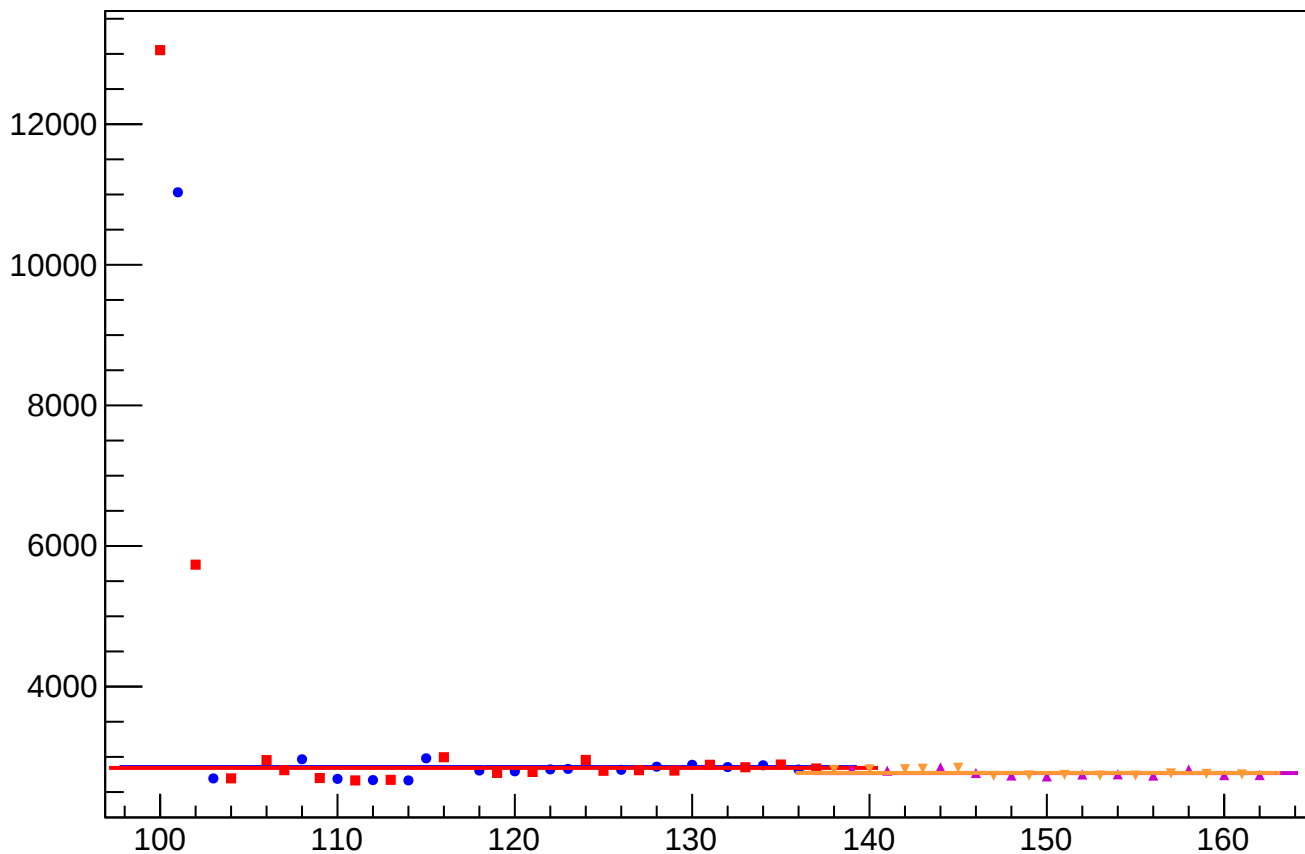
Right:  $2434.610 \pm 782.750$   $\chi^2/\text{NDF}: 22.3/35$

In:  $2531.843 \pm 695.980$   $\chi^2/\text{NDF}: 36.8/28$

Out:  $2652.584 \pm 687.361$   $\chi^2/\text{NDF}: 27.4/31$

All:  $2592.966 \pm 489.056$   $\chi^2/\text{NDF}: 64.1/60$

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



Right In: 2855.108+/-0.798  $\chi^2/\text{NDF}$ : 660906.0/16

Left Out: 2772.081+/-0.627  $\chi^2/\text{NDF}$ : 4383.0/12

Right Out: 2843.350+/-0.769  $\chi^2/\text{NDF}$ : 319301.9/18

Left In: 2769.662+/-0.625  $\chi^2/\text{NDF}$ : 4354.2/11

Left: 2770.867+/-0.443  $\chi^2/\text{NDF}$ : 8744.6/24

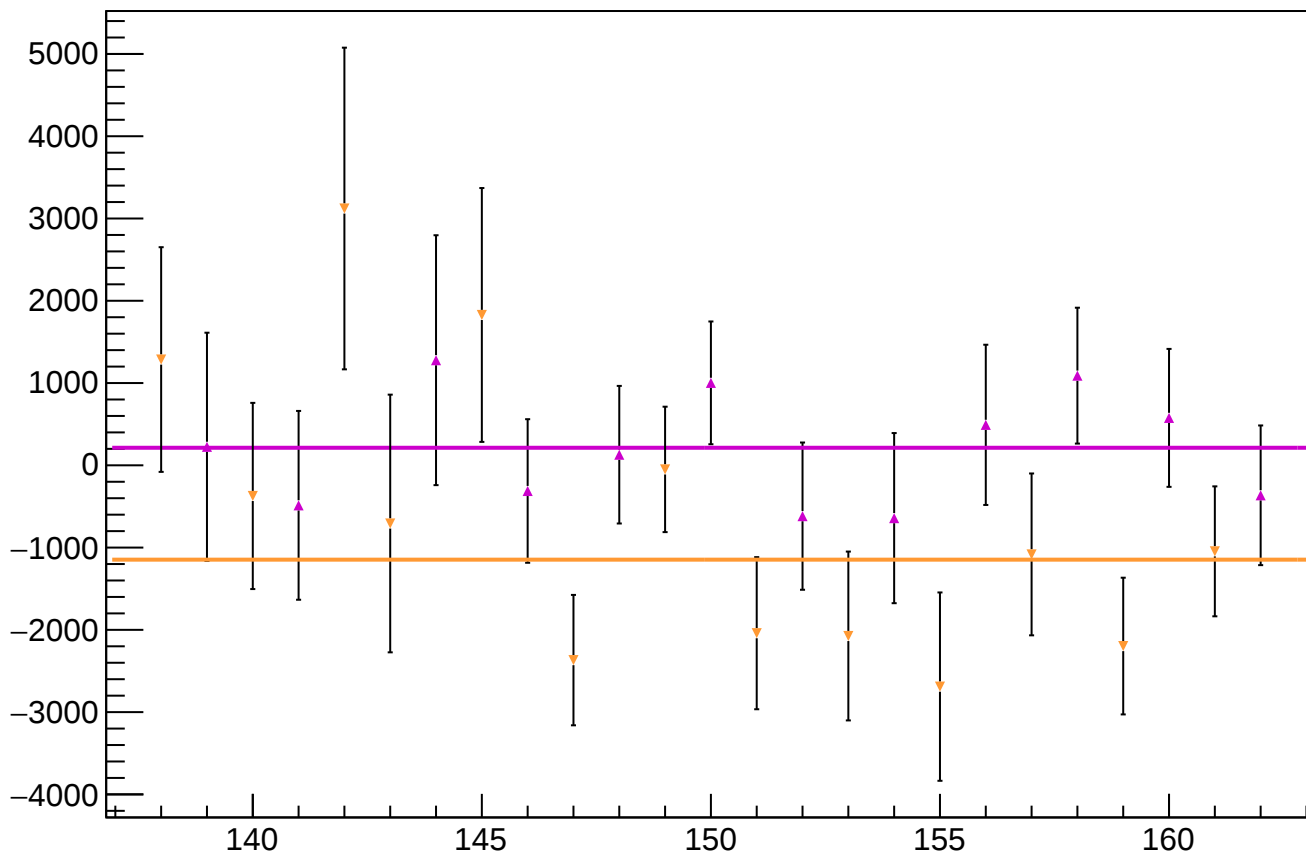
Right: 2849.009+/-0.553  $\chi^2/\text{NDF}$ : 980320.6/35

In: 2802.175+/-0.492  $\chi^2/\text{NDF}$ : 672366.1/28

Out: 2800.587+/-0.486  $\chi^2/\text{NDF}$ : 328845.1/31

All: 2801.371+/-0.346  $\chi^2/\text{NDF}$ : 1001216.5/60

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



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

Left Out: -1146.765+/-280.741  $\chi^2/\text{NDF}$ : 21.8/12

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

Left In: 213.256+/-269.502  $\chi^2/\text{NDF}$ : 5.8/11

Left: -438.986+/-194.419  $\chi^2/\text{NDF}$ : 39.8/24

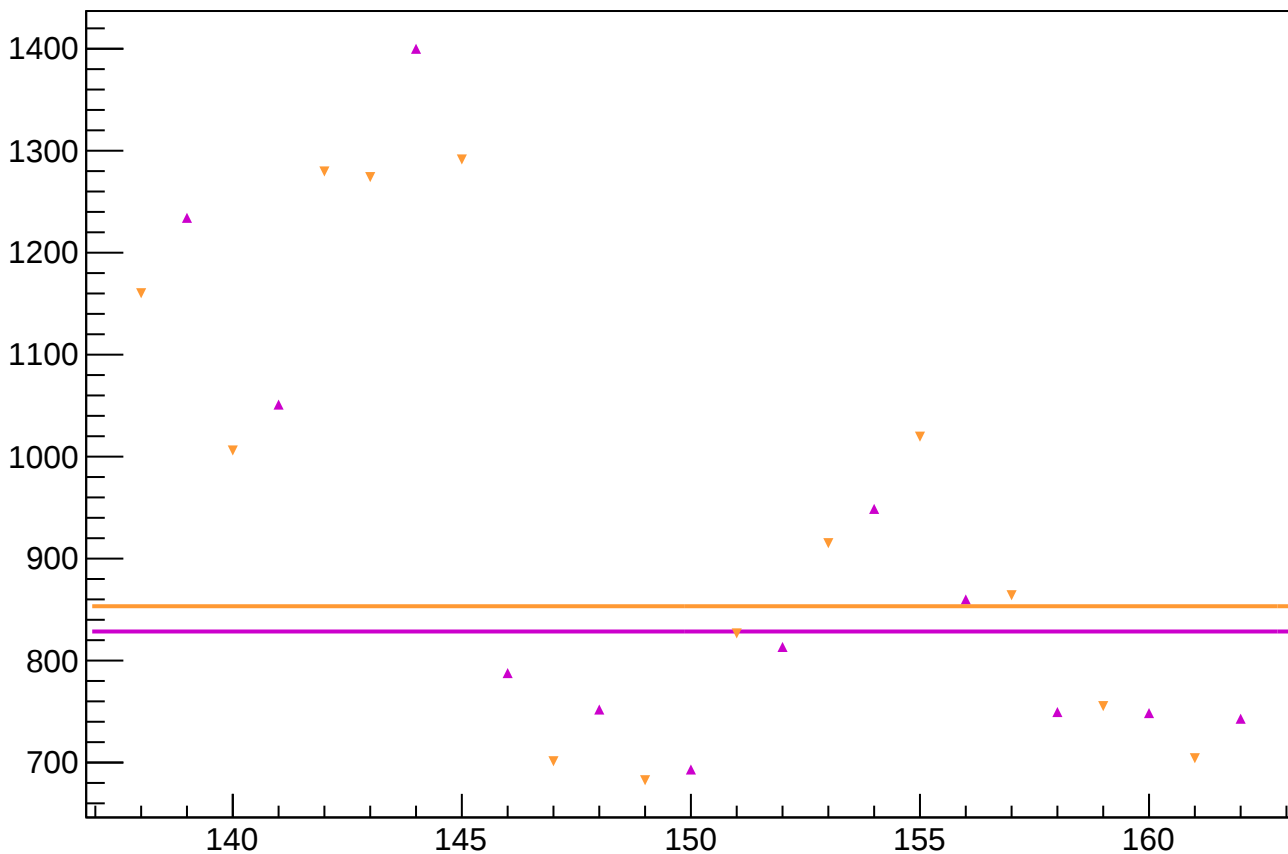
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 213.256+/-269.502  $\chi^2/\text{NDF}$ : 5.8/11

Out: -1146.765+/-280.741  $\chi^2/\text{NDF}$ : 21.8/12

All: -438.986+/-194.419  $\chi^2/\text{NDF}$ : 39.8/24

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



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

Left Out: 853.289+/-0.199  $\chi^2/\text{NDF}$ : 862535.3/12

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

Left In: 828.512+/-0.191  $\chi^2/\text{NDF}$ : 702938.4/11

Left: 840.395+/-0.137  $\chi^2/\text{NDF}$ : 1573580.5/24

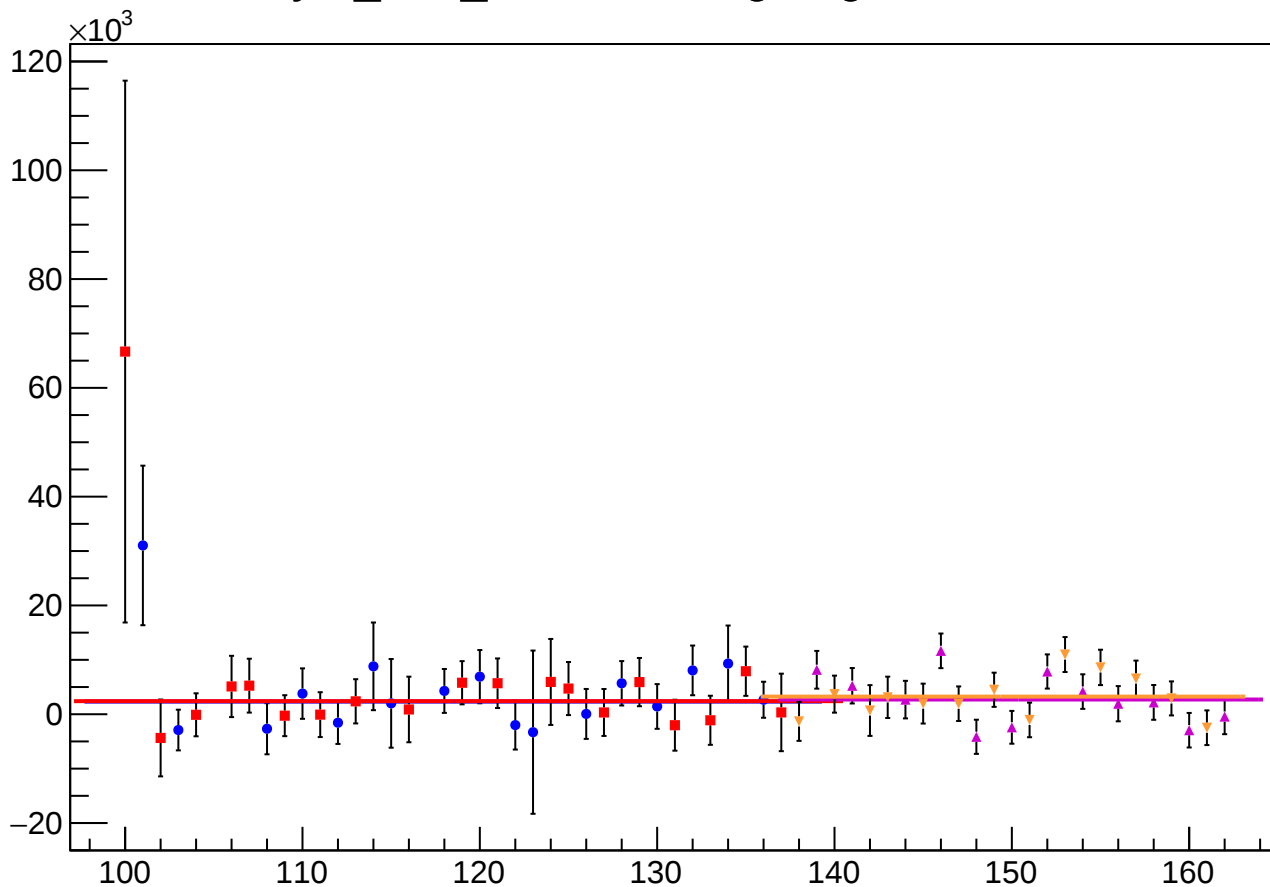
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 828.512+/-0.191  $\chi^2/\text{NDF}$ : 702938.4/11

Out: 853.289+/-0.199  $\chi^2/\text{NDF}$ : 862535.3/12

All: 840.395+/-0.137  $\chi^2/\text{NDF}$ : 1573580.5/24

# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2330.134+/-1156.555  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 3241.365+/-937.720  $\chi^2/\text{NDF}$ : 17.0/12

Right Out: 2403.750+/-1110.093  $\chi^2/\text{NDF}$ : 10.1/18

Left In: 2705.190+/-928.824  $\chi^2/\text{NDF}$ : 25.7/11

Left: 2970.722+/-659.900  $\chi^2/\text{NDF}$ : 42.8/24

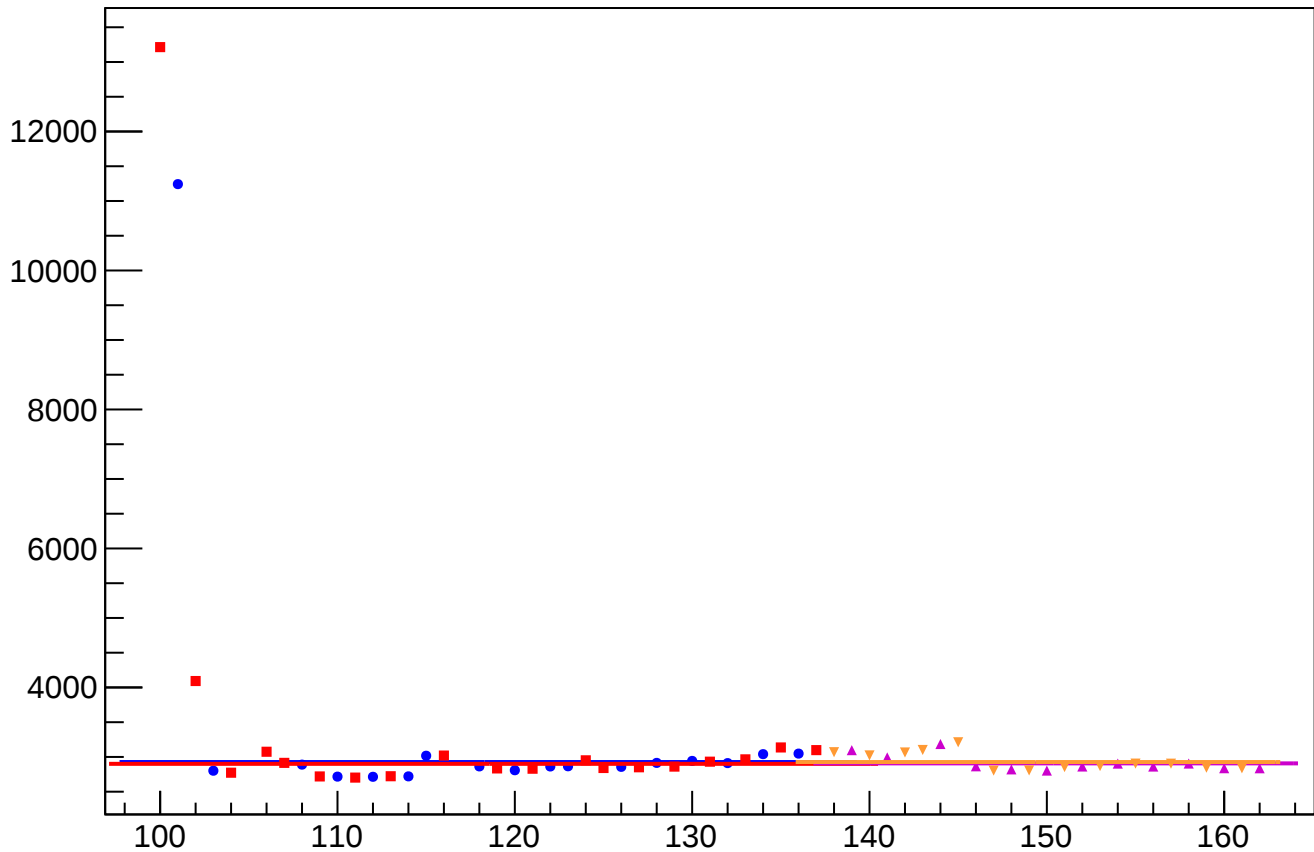
Right: 2368.450+/-800.876  $\chi^2/\text{NDF}$ : 24.5/35

In: 2558.137+/-724.195  $\chi^2/\text{NDF}$ : 40.1/28

Out: 2892.567+/-716.348  $\chi^2/\text{NDF}$ : 27.4/31

All: 2727.174+/-509.286  $\chi^2/\text{NDF}$ : 67.6/60

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2926.610+/-0.818  $\chi^2/\text{NDF}$ : 662794.4/16

Left Out: 2926.742+/-0.663  $\chi^2/\text{NDF}$ : 33465.1/12

Right Out: 2900.827+/-0.785  $\chi^2/\text{NDF}$ : 169866.6/18

Left In: 2907.446+/-0.657  $\chi^2/\text{NDF}$ : 27337.2/11

Left: 2917.002+/-0.467  $\chi^2/\text{NDF}$ : 61229.7/24

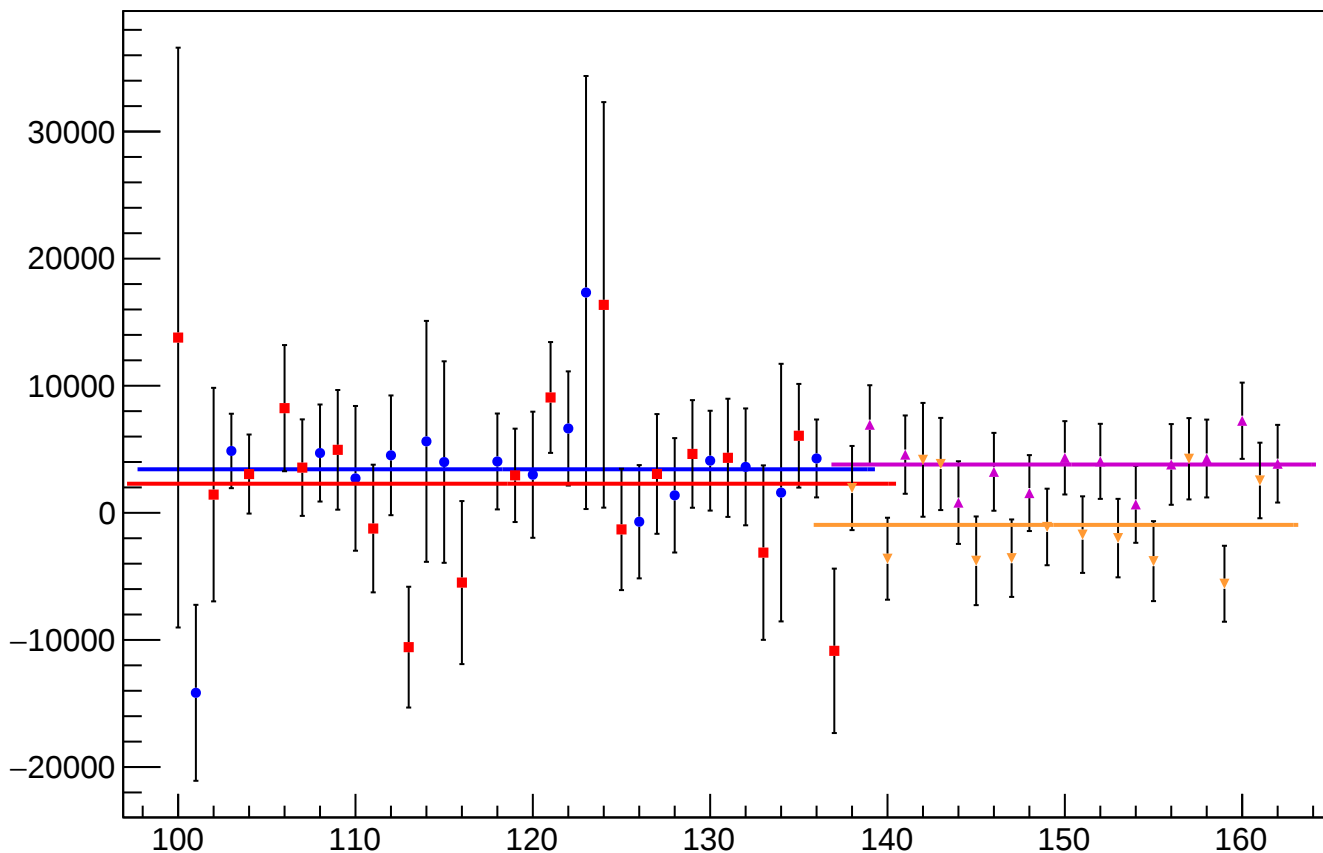
Right: 2913.190+/-0.566  $\chi^2/\text{NDF}$ : 833178.3/35

In: 2914.960+/-0.512  $\chi^2/\text{NDF}$ : 690465.4/28

Out: 2915.950+/-0.507  $\chi^2/\text{NDF}$ : 203967.8/31

All: 2915.461+/-0.360  $\chi^2/\text{NDF}$ : 894435.0/60

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



Right In: 3426.396+/-1117.275  $\chi^2$ /NDF: 9.4/16

Left Out: -948.317+/-893.551  $\chi^2$ /NDF:13.3/12

Right Out: 2290.985+/-1111.370  $\chi^2$ /NDF: 21.4/18

Left In: 3801.583+/-880.335  $\chi^2$ /NDF:5.0/11

Left: 1462.019+/-627.111  $\chi^2$ /NDF: 32.7/24

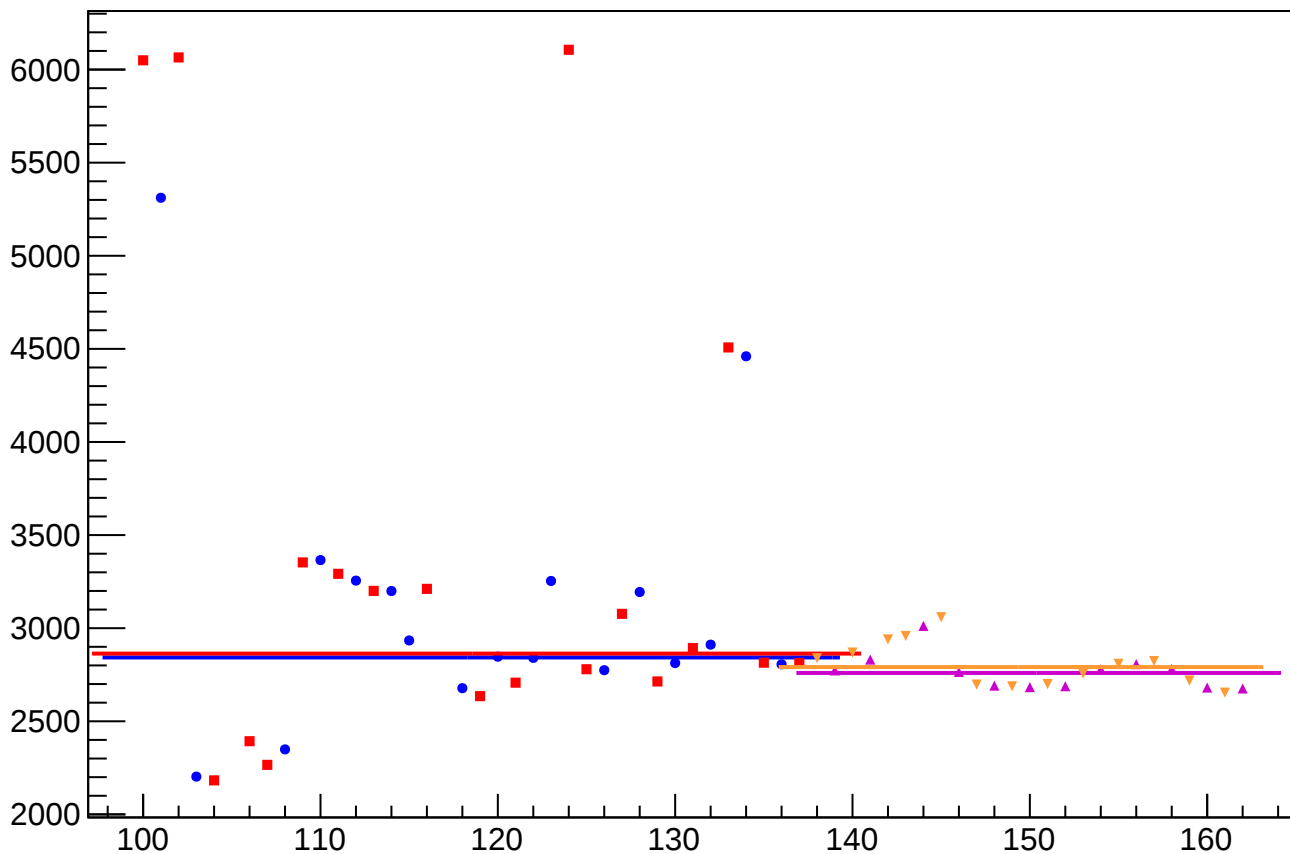
Right: 2855.682+/-787.937  $\chi^2$ /NDF: 31.3/35

In: 3657.874+/-691.479  $\chi^2$ /NDF:14.4/28

Out: 323.515+/-696.382  $\chi^2$ /NDF:39.9/31

All: 2002.475+/-490.674  $\chi^2$ /NDF: 65.9/60

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



Right In: 2842.874+/-0.790  $\chi^2/\text{NDF}$ : 488114.5/16

Left Out: 2791.281+/-0.632  $\chi^2/\text{NDF}$ : 31872.8/12

Right Out: 2863.592+/-0.786  $\chi^2/\text{NDF}$ : 760763.4/18

Left In: 2759.692+/-0.622  $\chi^2/\text{NDF}$ : 20287.7/11

Left: 2775.251+/-0.443  $\chi^2/\text{NDF}$ : 53428.9/24

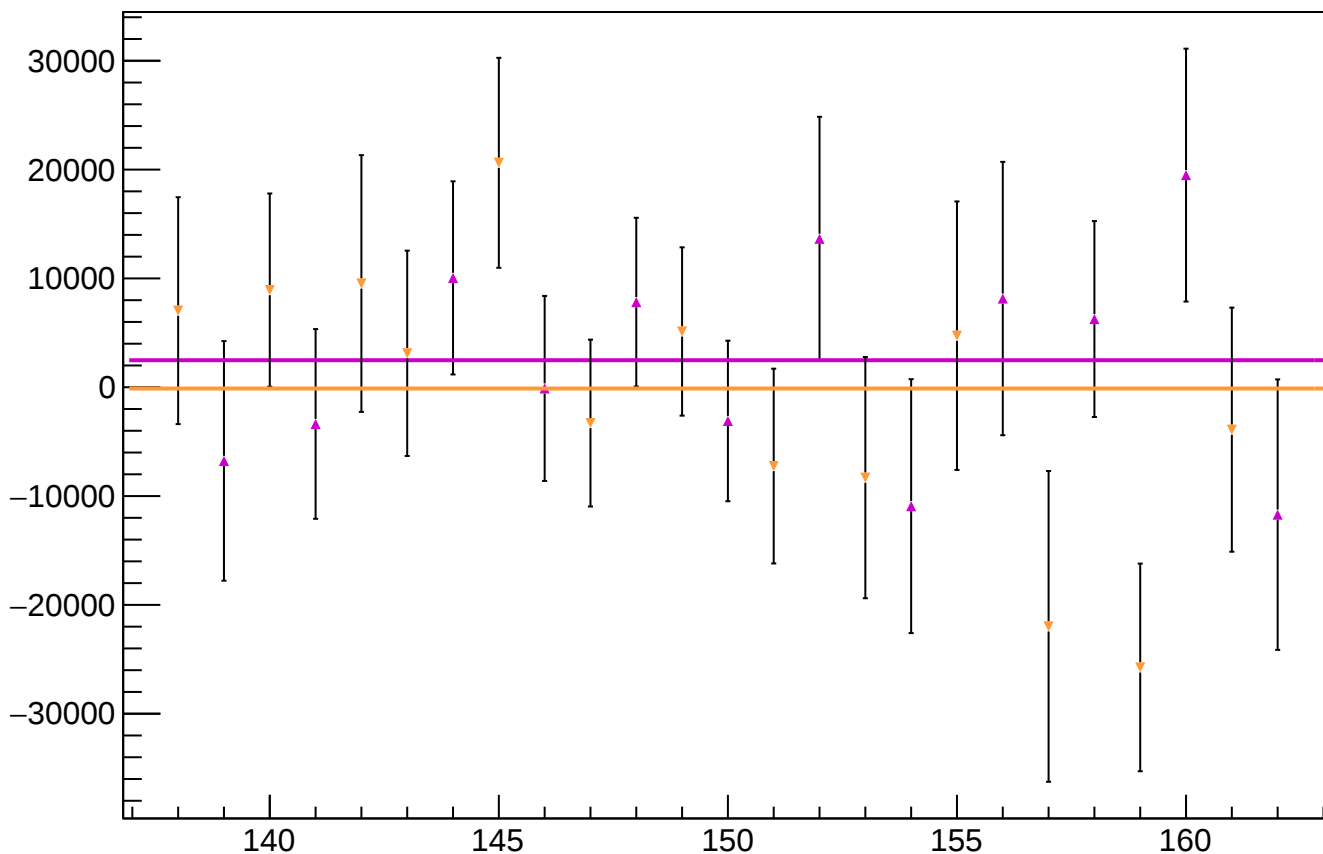
Right: 2853.292+/-0.557  $\chi^2/\text{NDF}$ : 1249223.7/35

In: 2791.553+/-0.489  $\chi^2/\text{NDF}$ : 515241.8/28

Out: 2819.686+/-0.492  $\chi^2/\text{NDF}$ : 797781.3/31

All: 2805.522+/-0.347  $\chi^2/\text{NDF}$ : 1314666.9/60

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



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

Left Out: -117.113+/-2713.471  $\chi^2/\text{NDF}$ :18.6/12

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

Left In: 2482.367+/-2764.526  $\chi^2/\text{NDF}$ :9.2/11

Left: 1158.402+/-1936.512  $\chi^2/\text{NDF}$ : 28.2/24

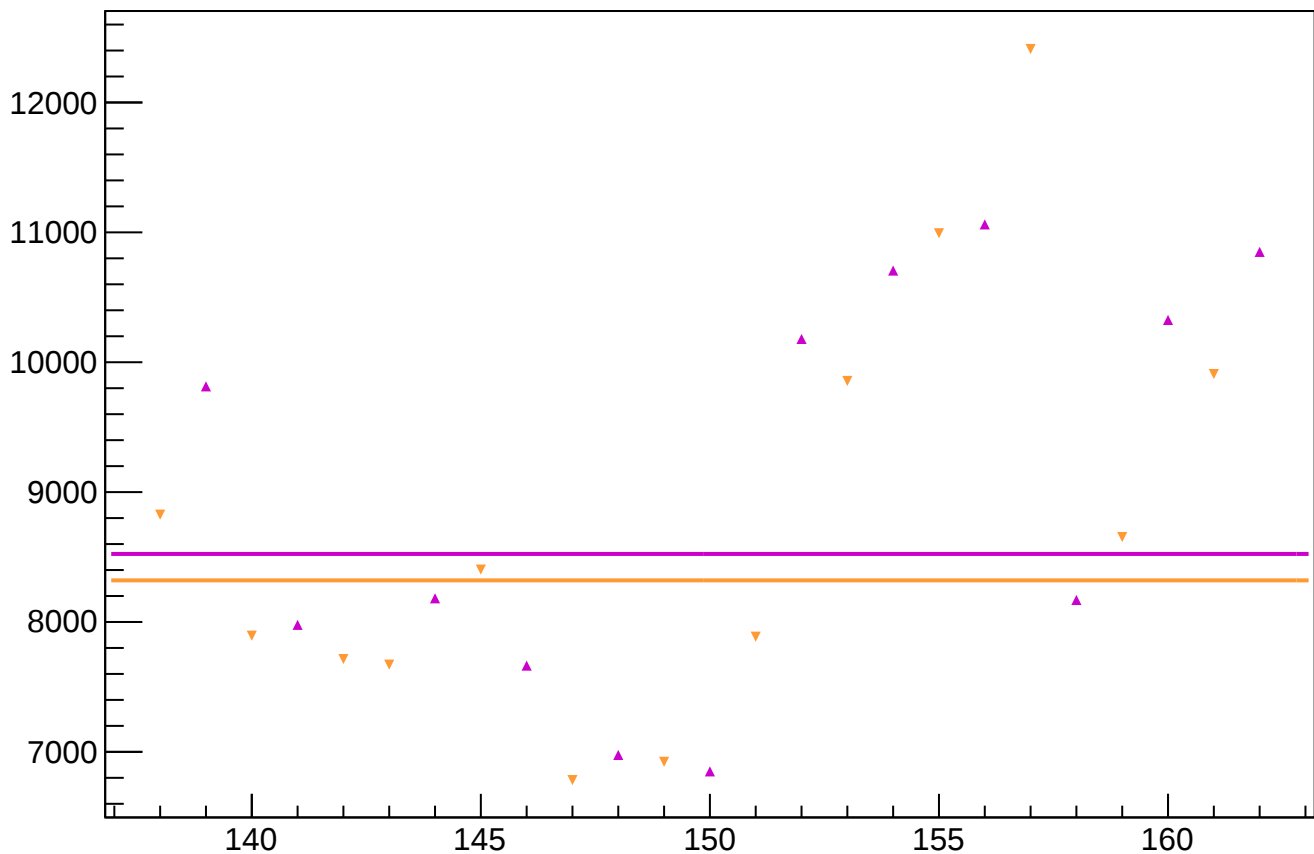
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2482.367+/-2764.526  $\chi^2/\text{NDF}$ :9.2/11

Out: -117.113+/-2713.471  $\chi^2/\text{NDF}$ :18.6/12

All: 1158.402+/-1936.512  $\chi^2/\text{NDF}$ : 28.2/24

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



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

Left Out: 8320.372+/-1.919  $\chi^2/\text{NDF}$ :513605.2/12

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

Left In: 8523.937+/-1.955  $\chi^2/\text{NDF}$ :558002.9/11

Left: 8420.257+/-1.369  $\chi^2/\text{NDF}$ : 1077131.2/24

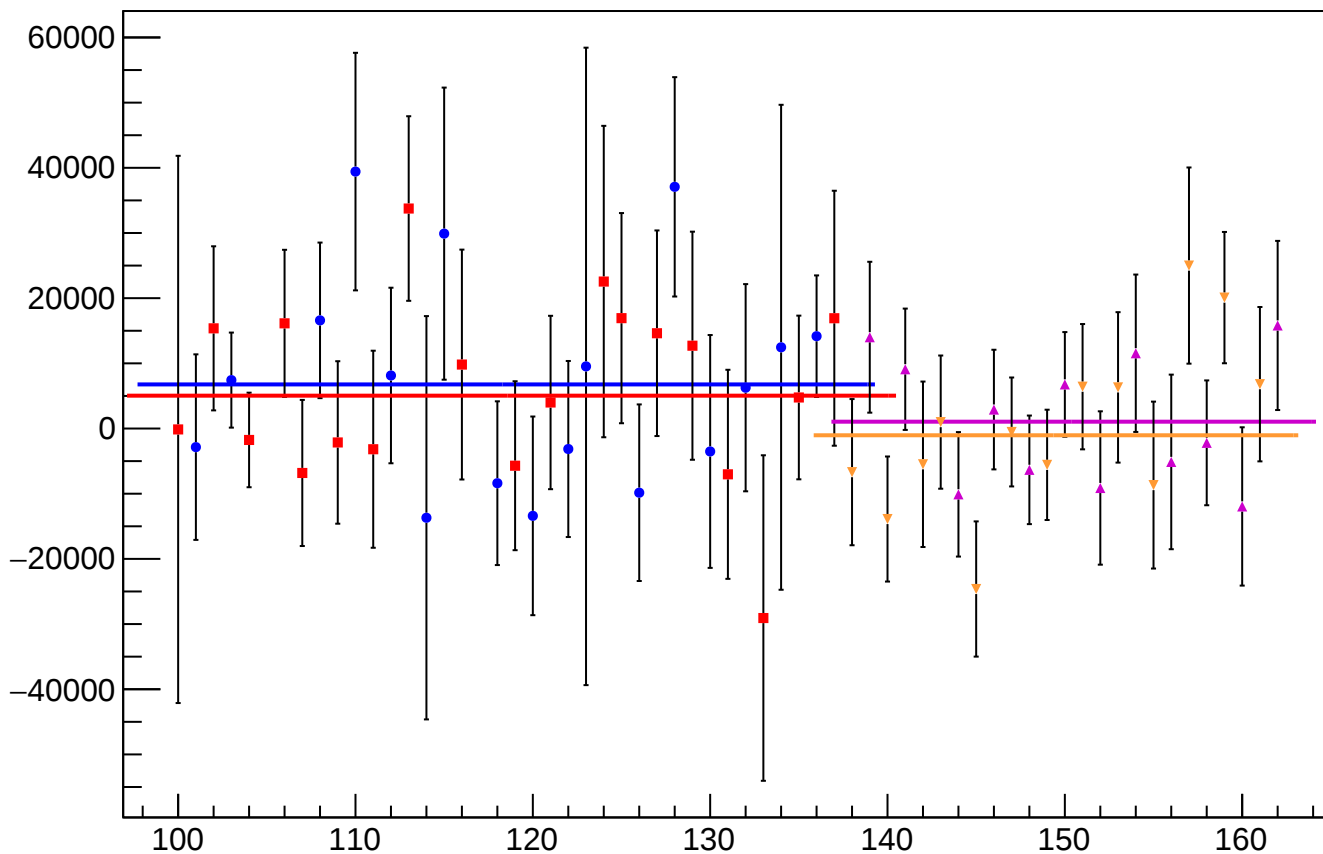
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8523.937+/-1.955  $\chi^2/\text{NDF}$ :558002.9/11

Out: 8320.372+/-1.919  $\chi^2/\text{NDF}$ :513605.2/12

All: 8420.257+/-1.369  $\chi^2/\text{NDF}$ : 1077131.2/24

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6767.402+/-3387.139  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: -1034.932+/-2910.923  $\chi^2/\text{NDF}$ : 16.9/12

Right Out: 5041.440+/-3167.616  $\chi^2/\text{NDF}$ : 13.6/18

Left In: 1049.043+/-2948.094  $\chi^2/\text{NDF}$ : 9.0/11

Left: -6.165+/-2071.350  $\chi^2/\text{NDF}$ : 26.1/24

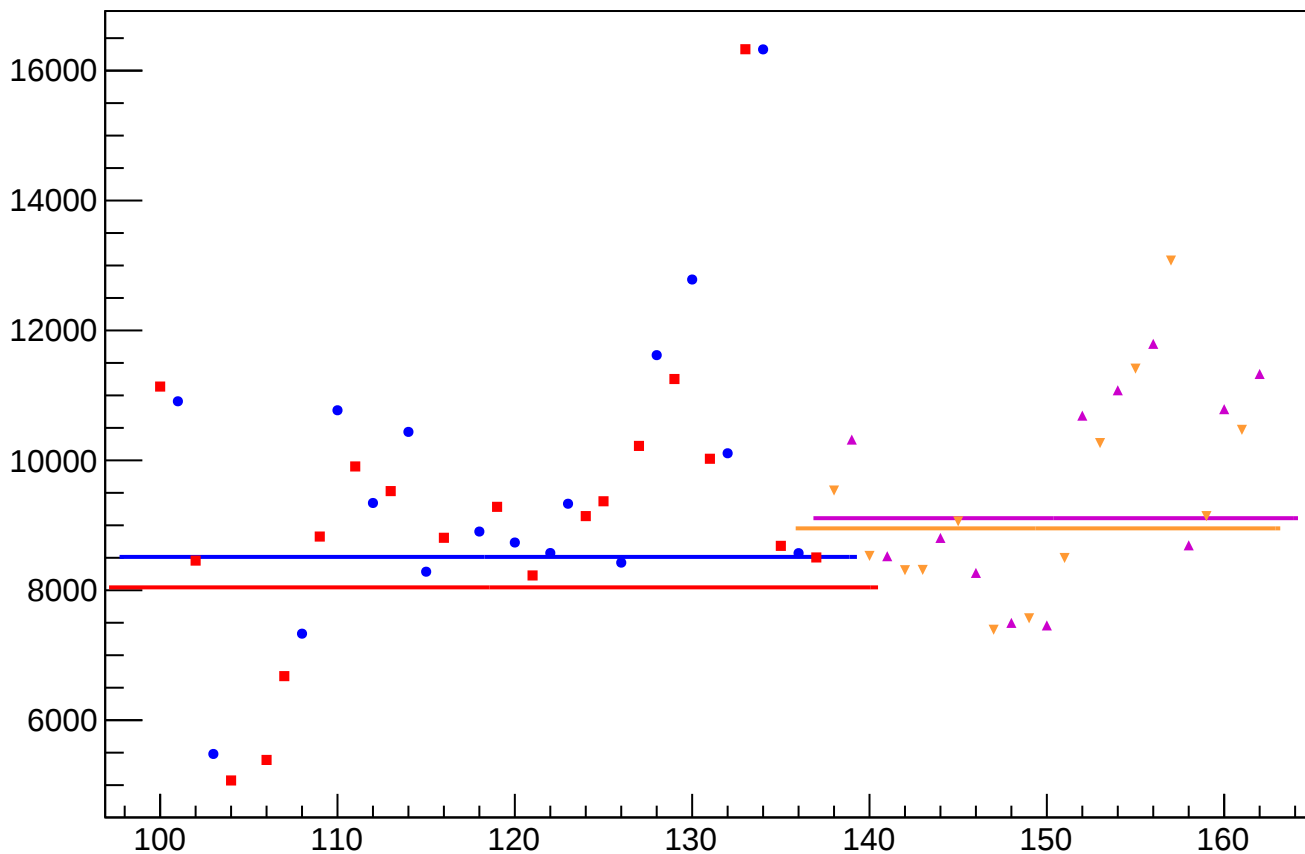
Right: 5846.682+/-2313.559  $\chi^2/\text{NDF}$ : 29.1/35

In: 3513.821+/-2223.752  $\chi^2/\text{NDF}$ : 25.9/28

Out: 1747.109+/-2143.345  $\chi^2/\text{NDF}$ : 32.5/31

All: 2597.948+/-1543.217  $\chi^2/\text{NDF}$ : 58.7/60

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8513.665+/-2.395  $\chi^2/\text{NDF}$ : 762614.5/16

Left Out: 8953.066+/-2.058  $\chi^2/\text{NDF}$ : 433621.7/12

Right Out: 8044.739+/-2.240  $\chi^2/\text{NDF}$ : 952310.5/18

Left In: 9109.808+/-2.085  $\chi^2/\text{NDF}$ : 478206.8/11

Left: 9030.443+/-1.465  $\chi^2/\text{NDF}$ : 914691.1/24

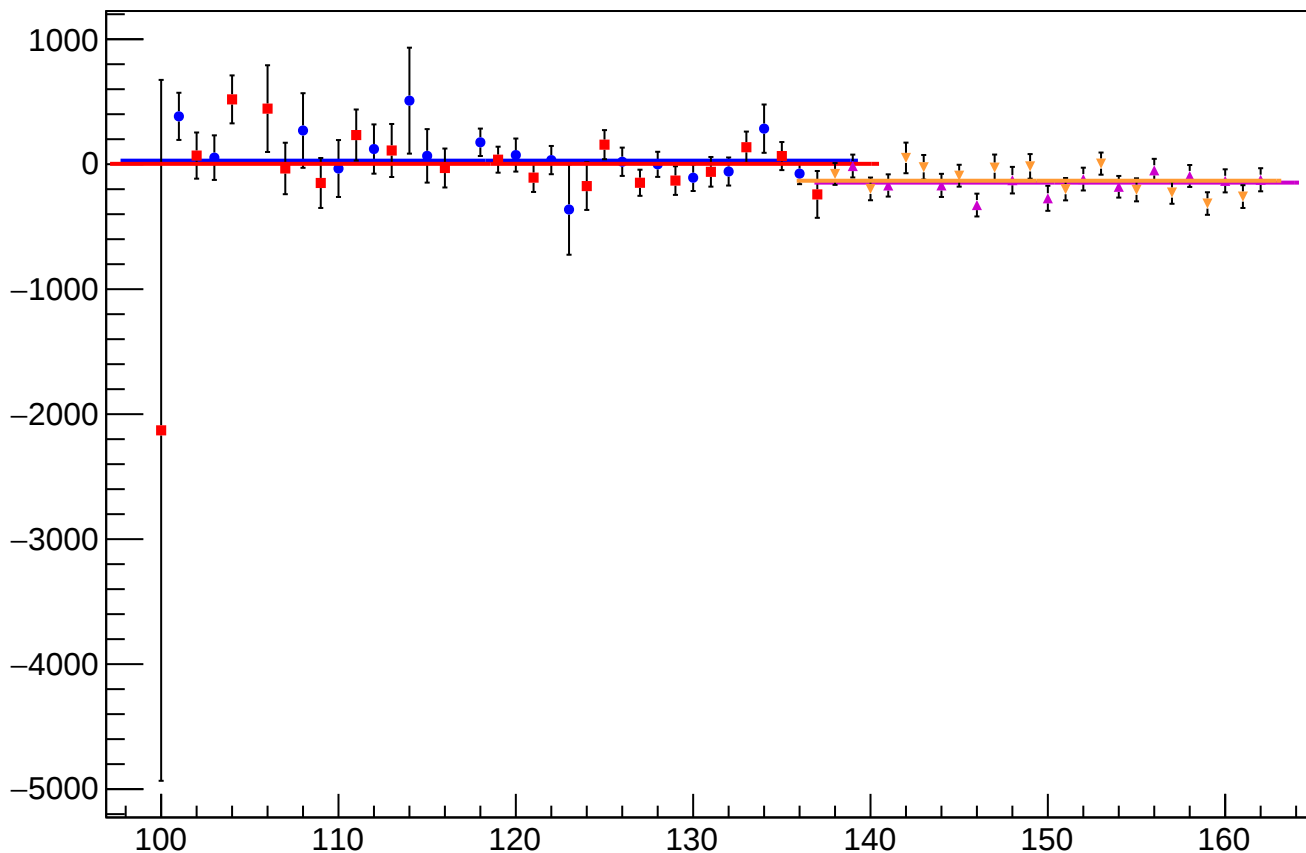
Right: 8263.507+/-1.636  $\chi^2/\text{NDF}$ : 1735374.5/35

In: 8852.853+/-1.572  $\chi^2/\text{NDF}$ : 1276070.9/28

Out: 8537.176+/-1.516  $\chi^2/\text{NDF}$ : 1475096.2/31

All: 8689.202+/-1.091  $\chi^2/\text{NDF}$ : 2772061.0/60

# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In:  $28.303 \pm 33.679$   $\chi^2/\text{NDF}$ : 14.5/16

Left Out:  $-132.221 \pm 25.959$   $\chi^2/\text{NDF}$ : 17.6/12

Right Out:  $2.963 \pm 33.691$   $\chi^2/\text{NDF}$ : 22.3/18

Left In:  $-147.379 \pm 26.665$   $\chi^2/\text{NDF}$ : 9.5/11

Left:  $-139.597 \pm 18.600$   $\chi^2/\text{NDF}$ : 27.3/24

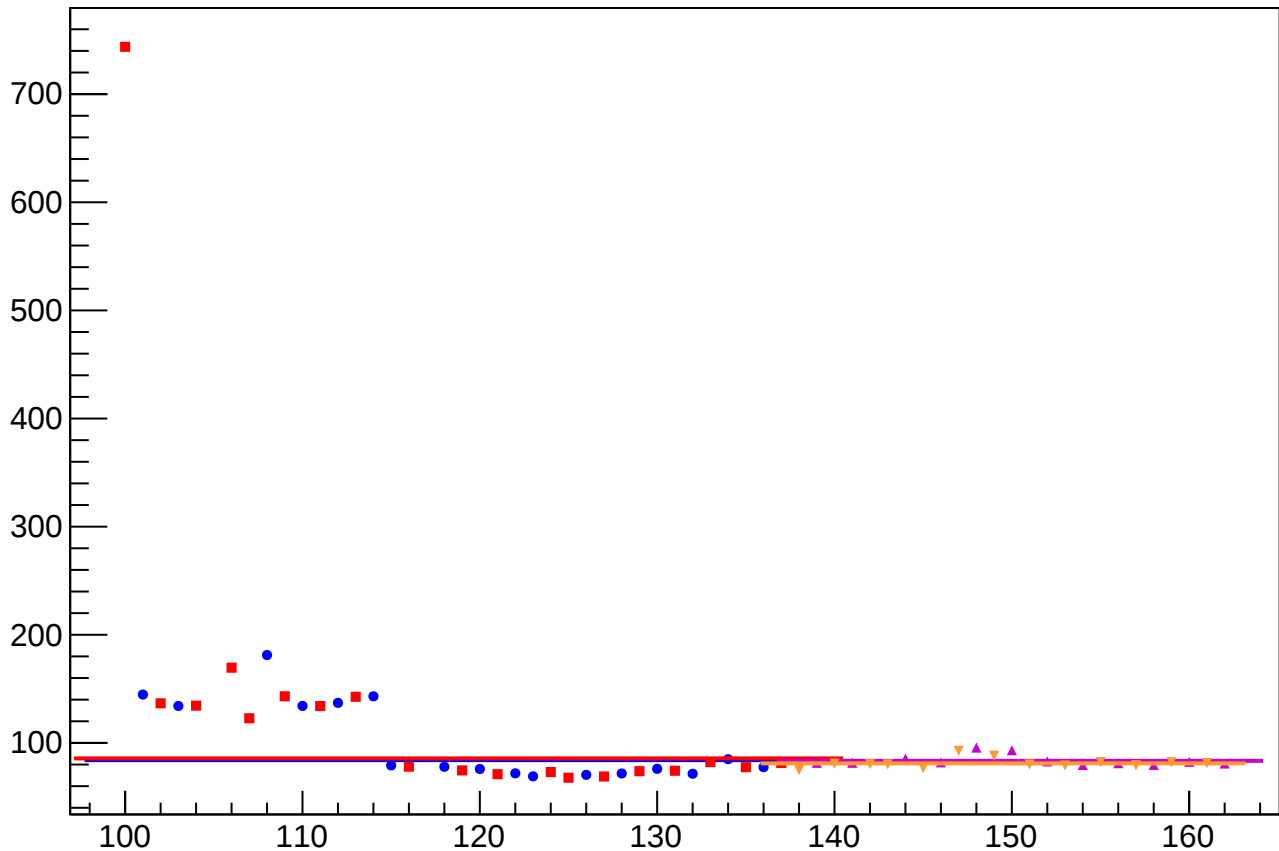
Right:  $15.637 \pm 23.819$   $\chi^2/\text{NDF}$ : 37.0/35

In:  $-79.685 \pm 20.906$   $\chi^2/\text{NDF}$ : 40.8/28

Out:  $-81.862 \pm 20.563$   $\chi^2/\text{NDF}$ : 50.0/31

All:  $-80.791 \pm 14.660$   $\chi^2/\text{NDF}$ : 90.7/60

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 84.067+/-0.024  $\chi^2/\text{NDF}$ : 1005835.5/16

Left Out: 81.050+/-0.018  $\chi^2/\text{NDF}$ : 52601.3/12

Right Out: 85.667+/-0.024  $\chi^2/\text{NDF}$ : 1215221.9/18

Left In: 83.413+/-0.019  $\chi^2/\text{NDF}$ : 58719.5/11

Left: 82.200+/-0.013  $\chi^2/\text{NDF}$ : 119384.7/24

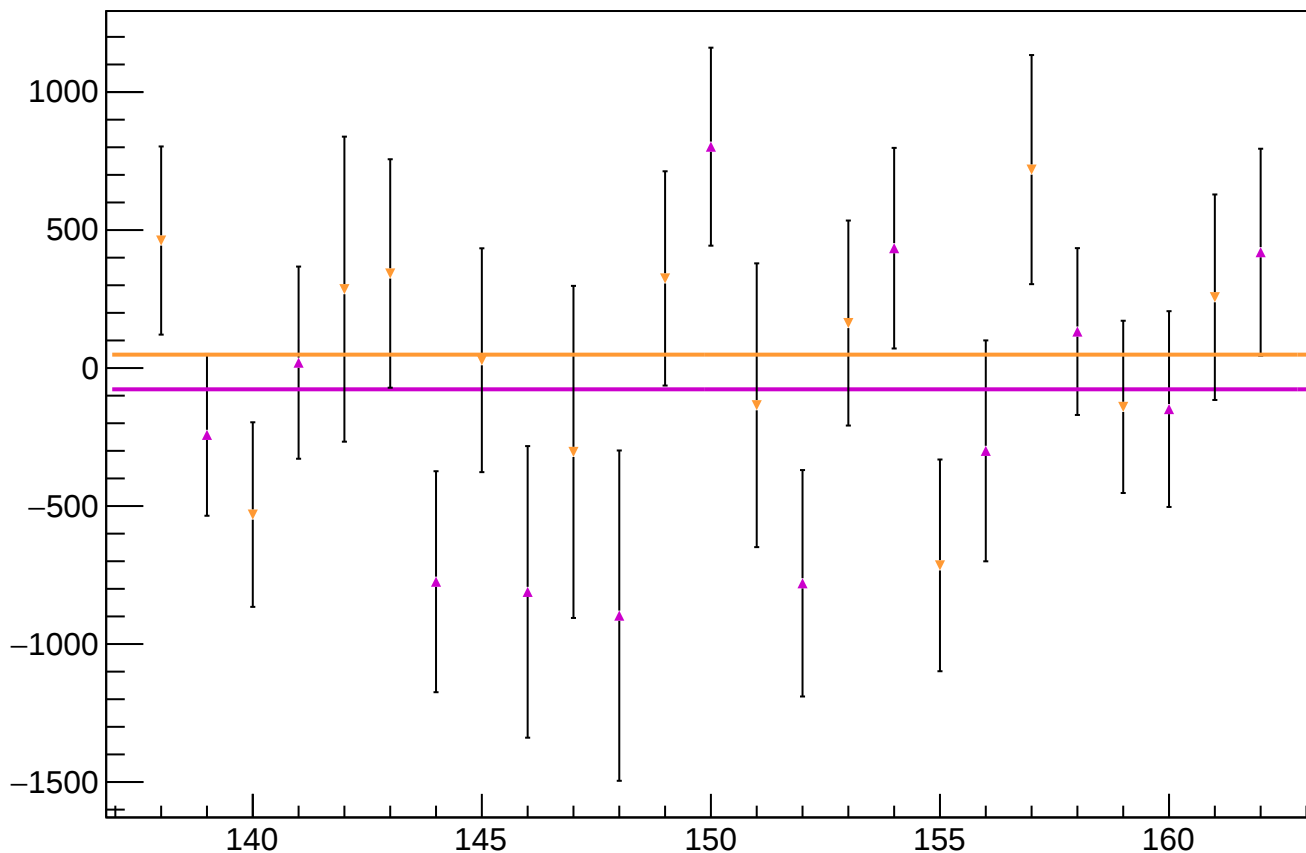
Right: 84.866+/-0.017  $\chi^2/\text{NDF}$ : 2223312.8/35

In: 83.665+/-0.015  $\chi^2/\text{NDF}$ : 1065018.2/28

Out: 82.770+/-0.015  $\chi^2/\text{NDF}$ : 1291386.4/31

All: 83.210+/-0.010  $\chi^2/\text{NDF}$ : 2358268.5/60

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 48.613+/-109.603  $\chi^2/\text{NDF}$ :13.5/12

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

Left In: -77.036+/-107.812  $\chi^2/\text{NDF}$ :20.7/11

Left: -15.247+/-76.860  $\chi^2/\text{NDF}$ : 34.9/24

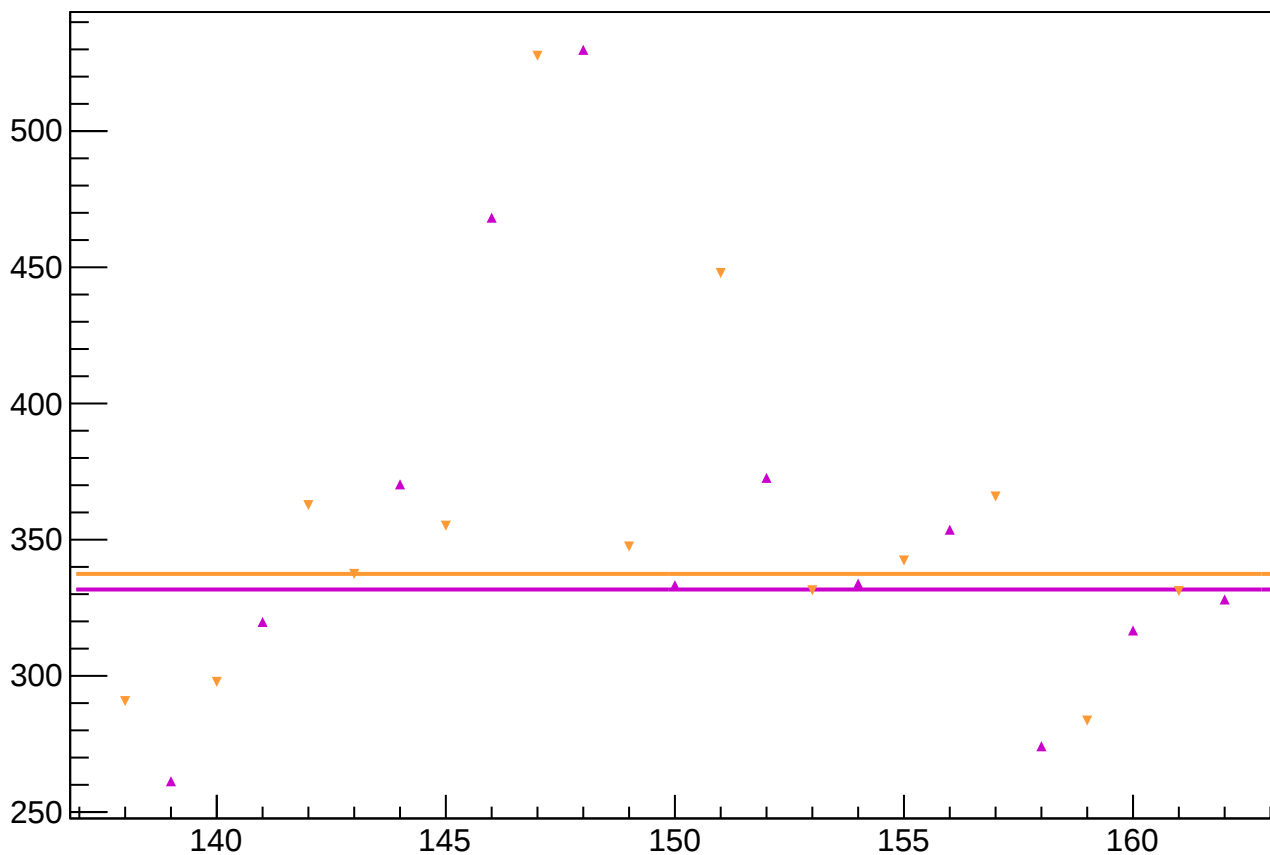
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -77.036+/-107.812  $\chi^2/\text{NDF}$ :20.7/11

Out: 48.613+/-109.603  $\chi^2/\text{NDF}$ :13.5/12

All: -15.247+/-76.860  $\chi^2/\text{NDF}$ : 34.9/24

# asym\_sam1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 337.437+/-0.078  $\chi^2/\text{NDF}$ : 437522.7/12

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

Left In: 331.705+/-0.076  $\chi^2/\text{NDF}$ : 591404.1/11

Left: 334.524+/-0.054  $\chi^2/\text{NDF}$ : 1031706.9/24

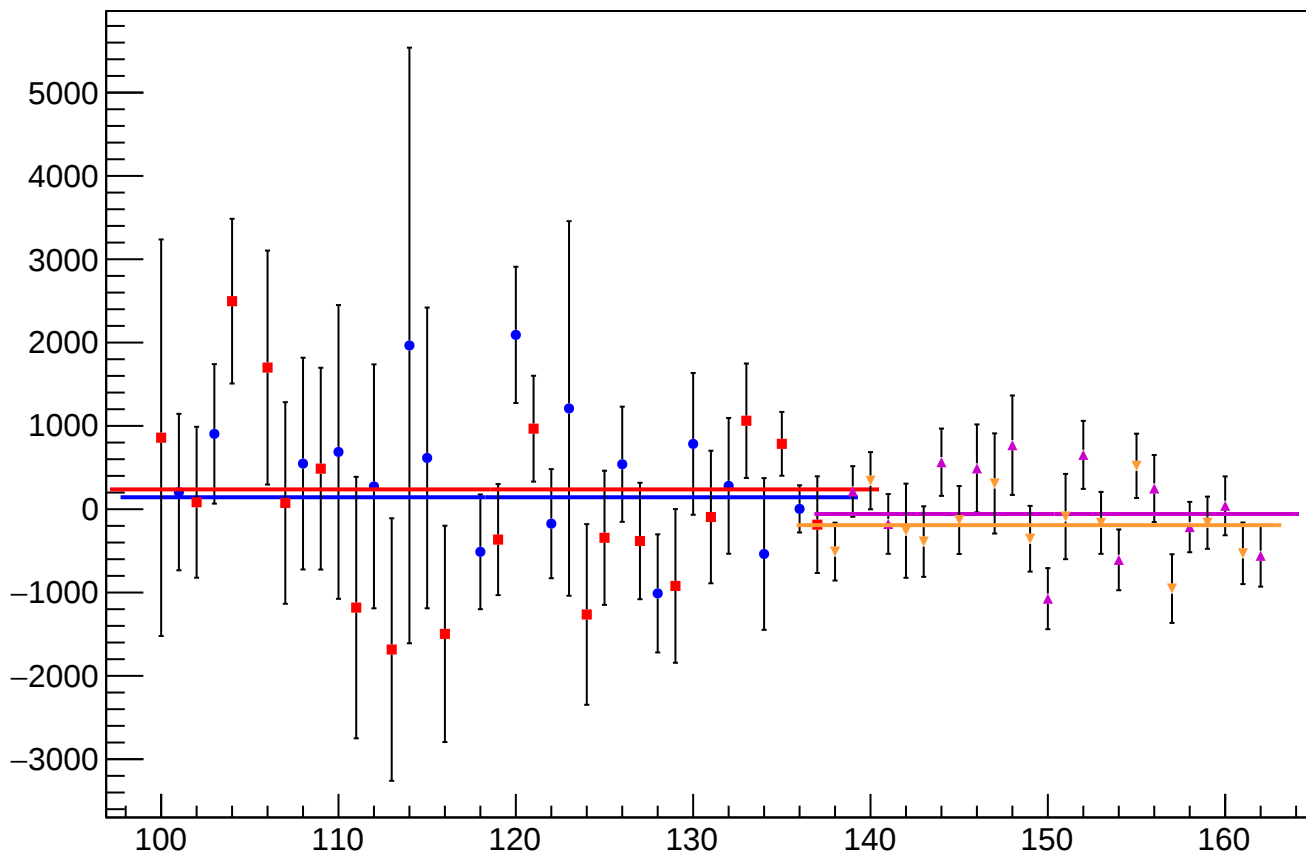
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 331.705+/-0.076  $\chi^2/\text{NDF}$ : 591404.1/11

Out: 337.437+/-0.078  $\chi^2/\text{NDF}$ : 437522.7/12

All: 334.524+/-0.054  $\chi^2/\text{NDF}$ : 1031706.9/24

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 143.486 $\pm$ 179.237  $\chi^2$ /NDF: 12.8/16

Left Out: -191.350 $\pm$ 110.500  $\chi^2$ /NDF:12.1/12

Right Out: 237.821 $\pm$ 183.995  $\chi^2$ /NDF: 21.7/18

Left In: -57.561 $\pm$ 108.740  $\chi^2$ /NDF:22.0/11

Left: -123.382 $\pm$ 77.506  $\chi^2$ /NDF: 34.8/24

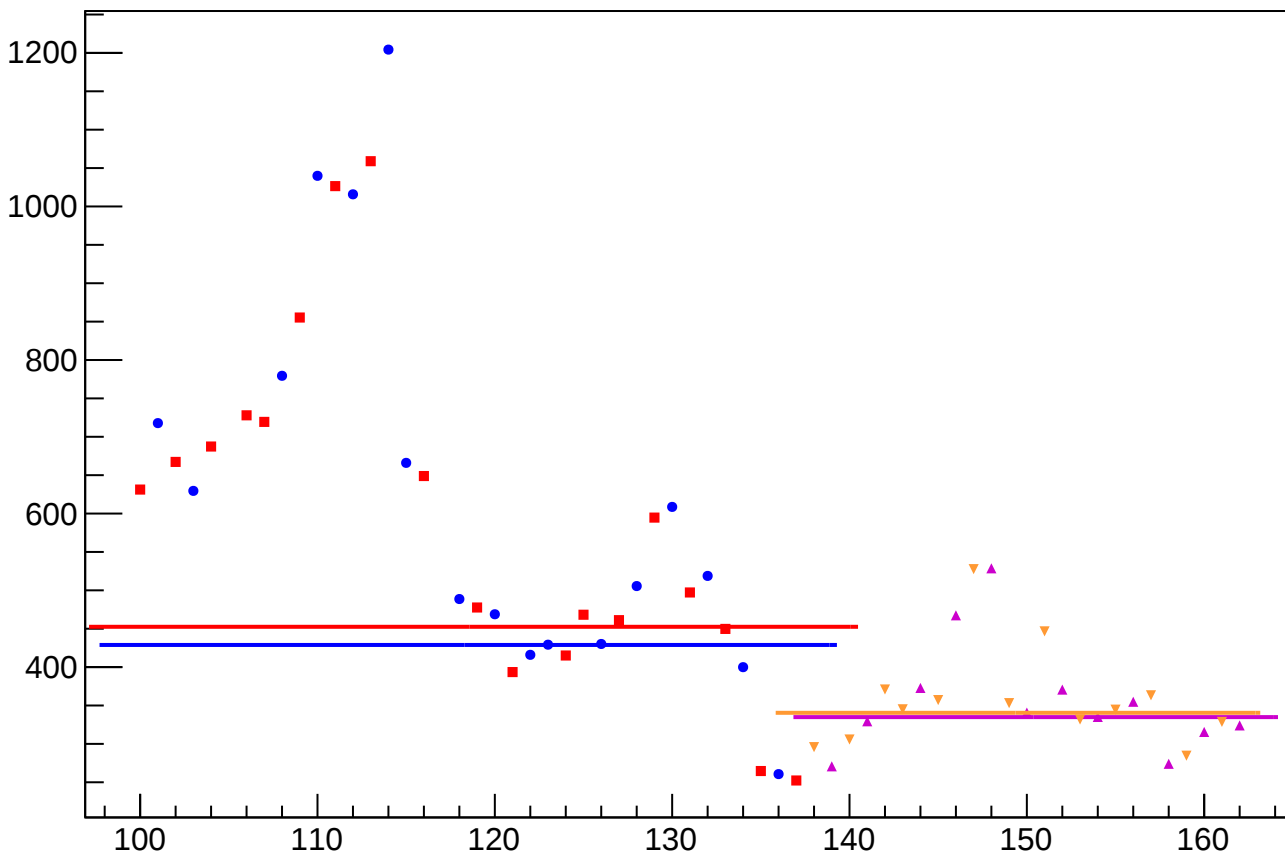
Right: 189.418 $\pm$ 128.389  $\chi^2$ /NDF: 34.6/35

In: -3.471 $\pm$ 92.969  $\chi^2$ /NDF:35.7/28

Out: -77.590 $\pm$ 94.730  $\chi^2$ /NDF:37.7/31

All: -39.836 $\pm$ 66.353  $\chi^2$ /NDF: 73.8/60

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.856+/-0.127  $\chi^2/\text{NDF}$ : 2012329.6/16

Left Out: 340.484+/-0.078  $\chi^2/\text{NDF}$ : 418075.5/12

Right Out: 452.517+/-0.130  $\chi^2/\text{NDF}$ : 2039238.5/18

Left In: 334.871+/-0.077  $\chi^2/\text{NDF}$ : 554288.3/11

Left: 337.633+/-0.055  $\chi^2/\text{NDF}$ : 974986.0/24

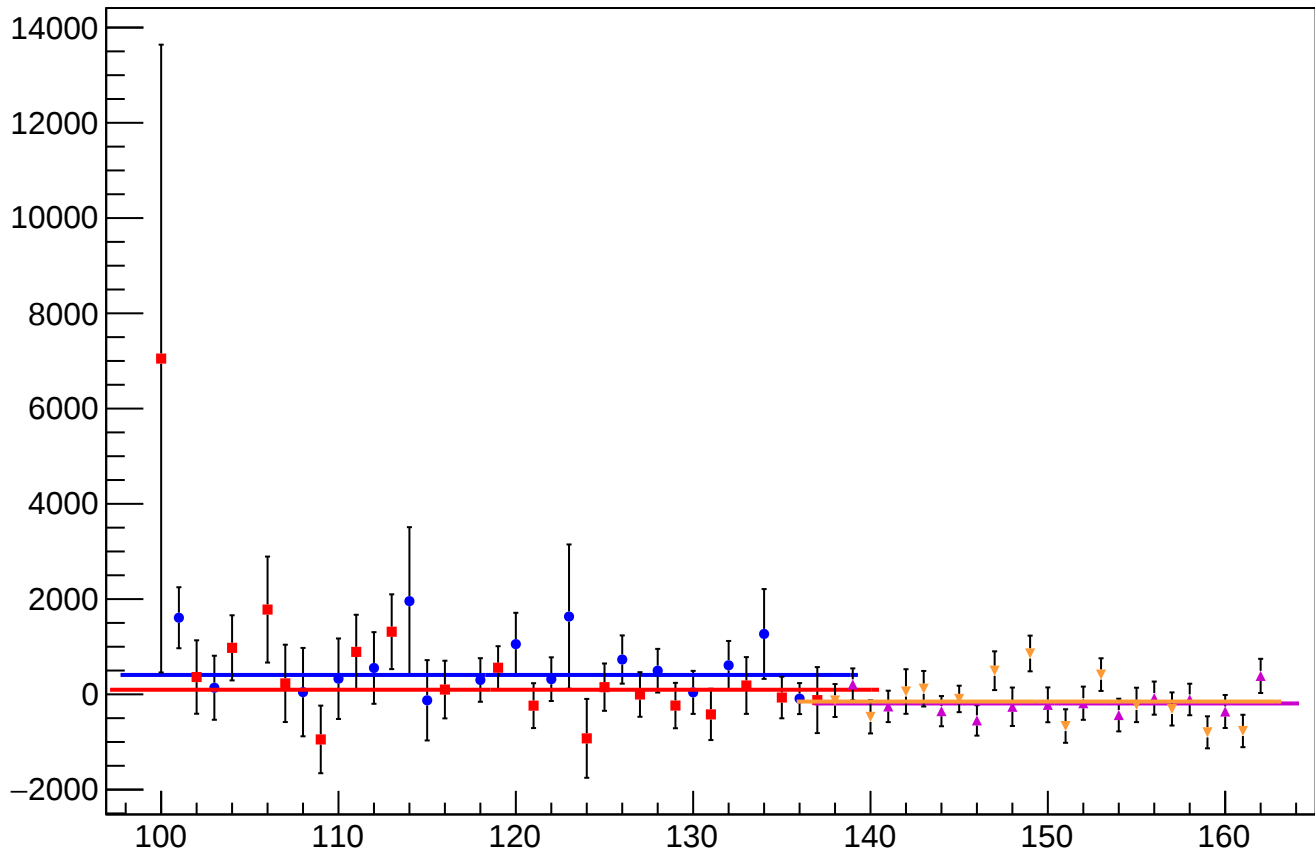
Right: 440.377+/-0.091  $\chi^2/\text{NDF}$ : 4068538.6/35

In: 360.157+/-0.066  $\chi^2/\text{NDF}$ : 2968579.9/28

Out: 370.181+/-0.067  $\chi^2/\text{NDF}$ : 3002263.0/31

All: 365.075+/-0.047  $\chi^2/\text{NDF}$ : 5982250.7/60

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 407.640 $\pm$ 139.972  $\chi^2$ /NDF: 11.4/16

Left Out: -151.152 $\pm$ 97.806  $\chi^2$ /NDF:23.5/12

Right Out: 96.852 $\pm$ 139.191  $\chi^2$ /NDF: 15.6/18

Left In: -191.315 $\pm$ 99.204  $\chi^2$ /NDF:6.5/11

Left: -170.948 $\pm$ 69.648  $\chi^2$ /NDF: 30.1/24

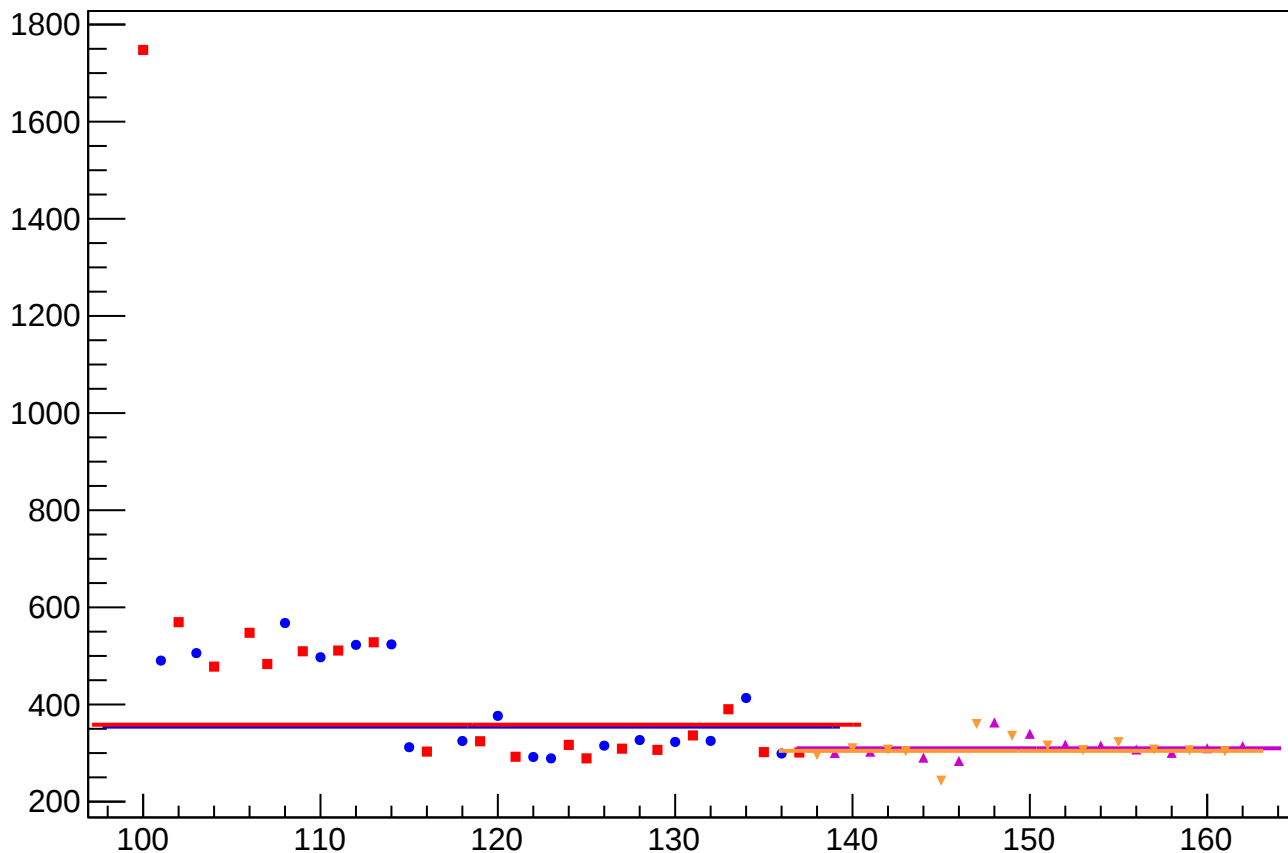
Right: 251.376 $\pm$ 98.698  $\chi^2$ /NDF: 29.5/35

In: 8.952 $\pm$ 80.937  $\chi^2$ /NDF:30.1/28

Out: -69.175 $\pm$ 80.025  $\chi^2$ /NDF:41.2/31

All: -30.554 $\pm$ 56.906  $\chi^2$ /NDF: 71.8/60

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 354.426+/-0.099  $\chi^2/\text{NDF}$ : 636260.3/16

Left Out: 304.534+/-0.069  $\chi^2/\text{NDF}$ : 157320.5/12

Right Out: 358.422+/-0.098  $\chi^2/\text{NDF}$ : 879426.8/18

Left In: 309.786+/-0.070  $\chi^2/\text{NDF}$ : 74636.7/11

Left: 307.122+/-0.049  $\chi^2/\text{NDF}$ : 234799.7/24

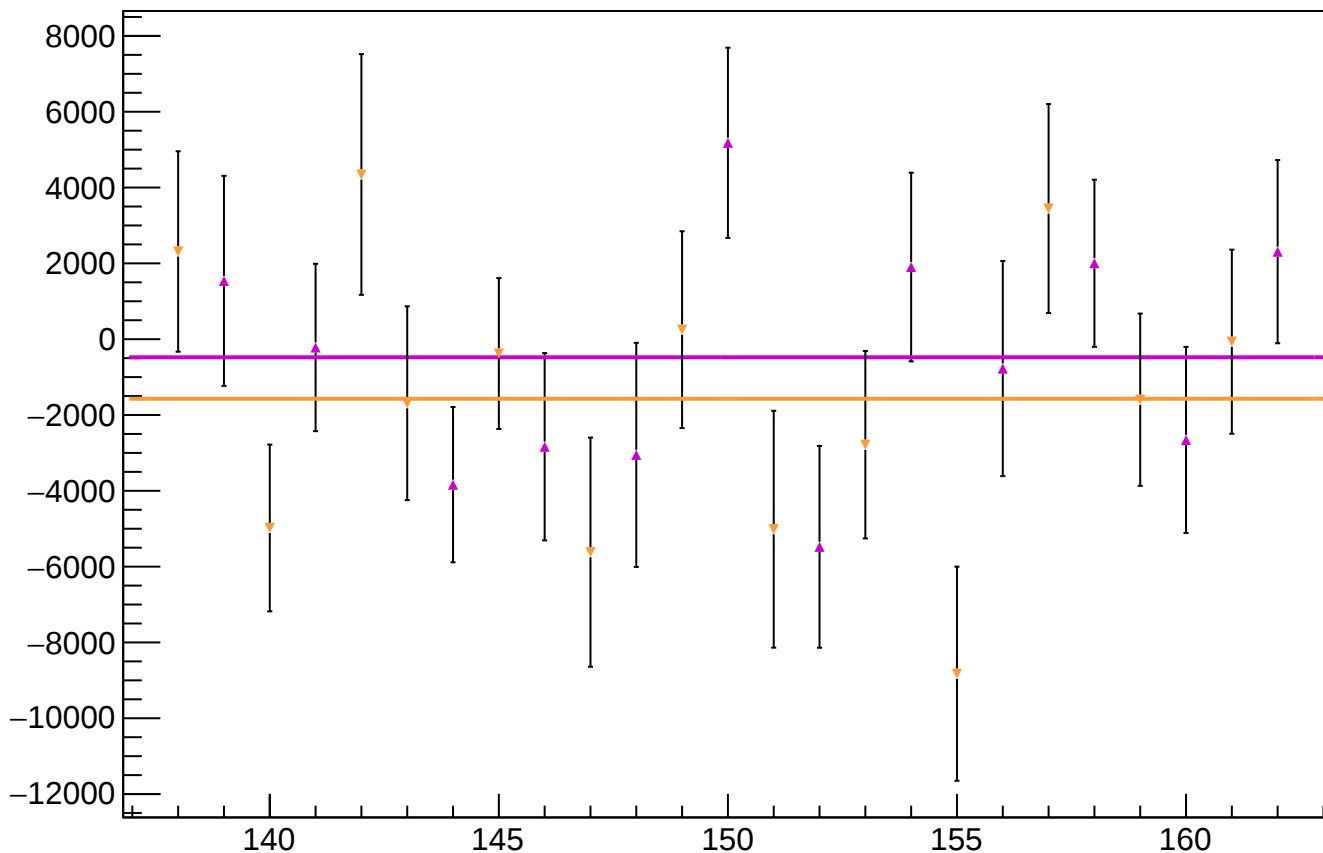
Right: 356.435+/-0.070  $\chi^2/\text{NDF}$ : 1516506.7/35

In: 324.711+/-0.057  $\chi^2/\text{NDF}$ : 846305.1/28

Out: 322.346+/-0.057  $\chi^2/\text{NDF}$ : 1237433.1/31

All: 323.515+/-0.040  $\chi^2/\text{NDF}$ : 2084602.0/60

# asym\_sam2\_correction\_mean vs Slug, Sign Corrected



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

Left Out:  $-1571.422 \pm 707.398$   $\chi^2/\text{NDF}: 22.4/12$

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

Left In:  $-477.783 \pm 710.552$   $\chi^2/\text{NDF}: 17.8/11$

Left:  $-1027.035 \pm 501.317$   $\chi^2/\text{NDF}: 41.4/24$

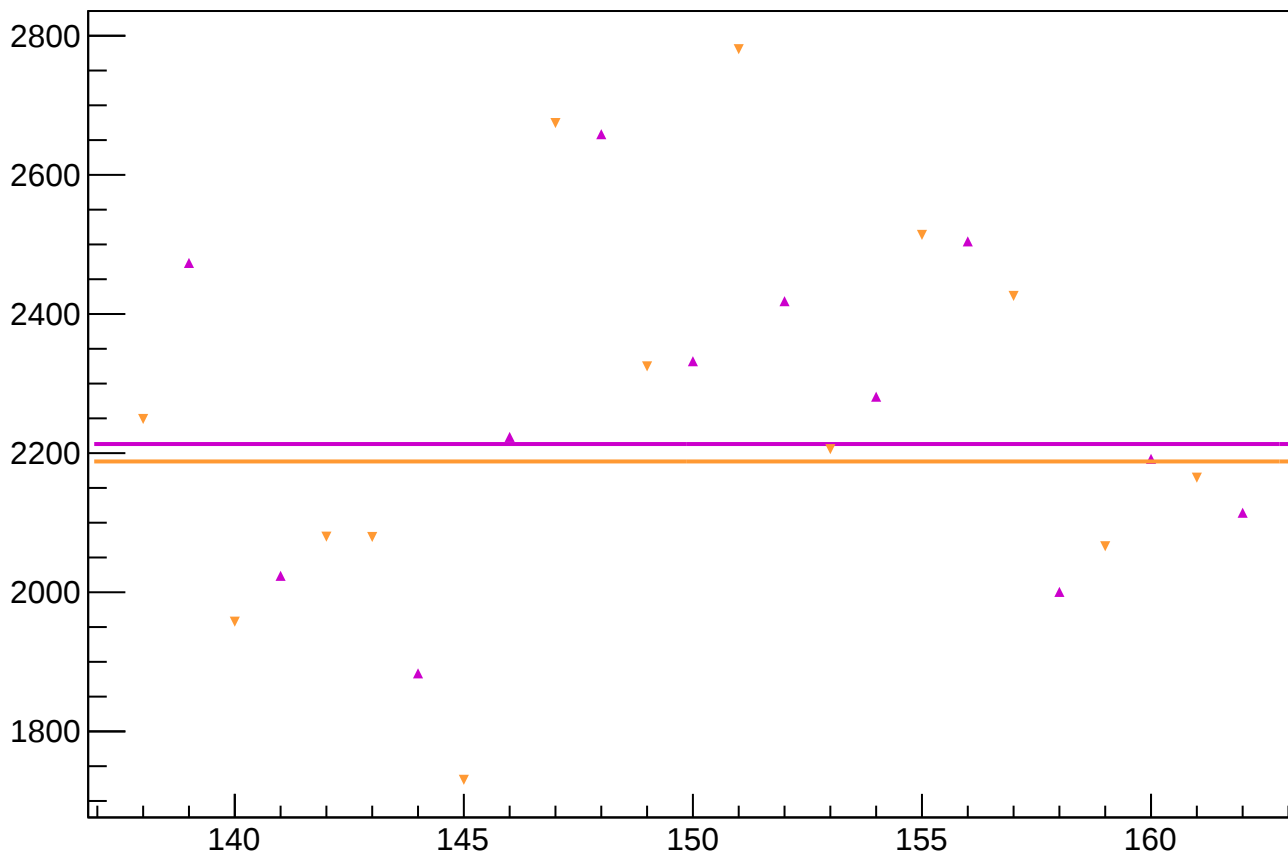
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-477.783 \pm 710.552$   $\chi^2/\text{NDF}: 17.8/11$

Out:  $-1571.422 \pm 707.398$   $\chi^2/\text{NDF}: 22.4/12$

All:  $-1027.035 \pm 501.317$   $\chi^2/\text{NDF}: 41.4/24$

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2188.055+/-0.500  $\chi^2/\text{NDF}$ :311478.3/12

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

Left In: 2213.091+/-0.502  $\chi^2/\text{NDF}$ :190677.8/11

Left: 2200.517+/-0.354  $\chi^2/\text{NDF}$ : 503403.2/24

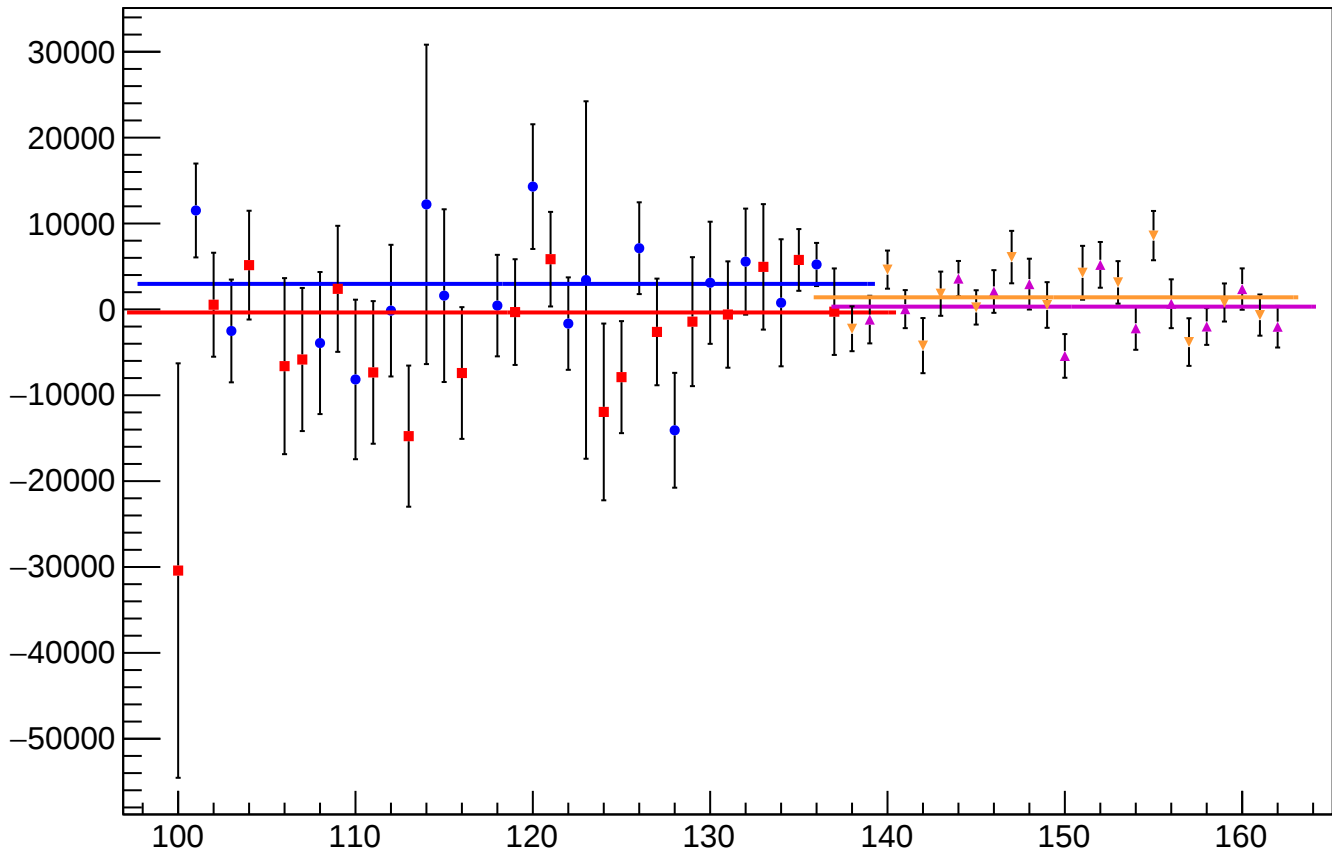
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2213.091+/-0.502  $\chi^2/\text{NDF}$ :190677.8/11

Out: 2188.055+/-0.500  $\chi^2/\text{NDF}$ :311478.3/12

All: 2200.517+/-0.354  $\chi^2/\text{NDF}$ : 503403.2/24

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2969.125+/-1440.489  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1406.295+/-708.812  $\chi^2/\text{NDF}$ : 21.9/12

Right Out: -358.685+/-1507.064  $\chi^2/\text{NDF}$ : 15.3/18

Left In: 317.772+/-709.412  $\chi^2/\text{NDF}$ : 16.4/11

Left: 862.494+/-501.418  $\chi^2/\text{NDF}$ : 39.5/24

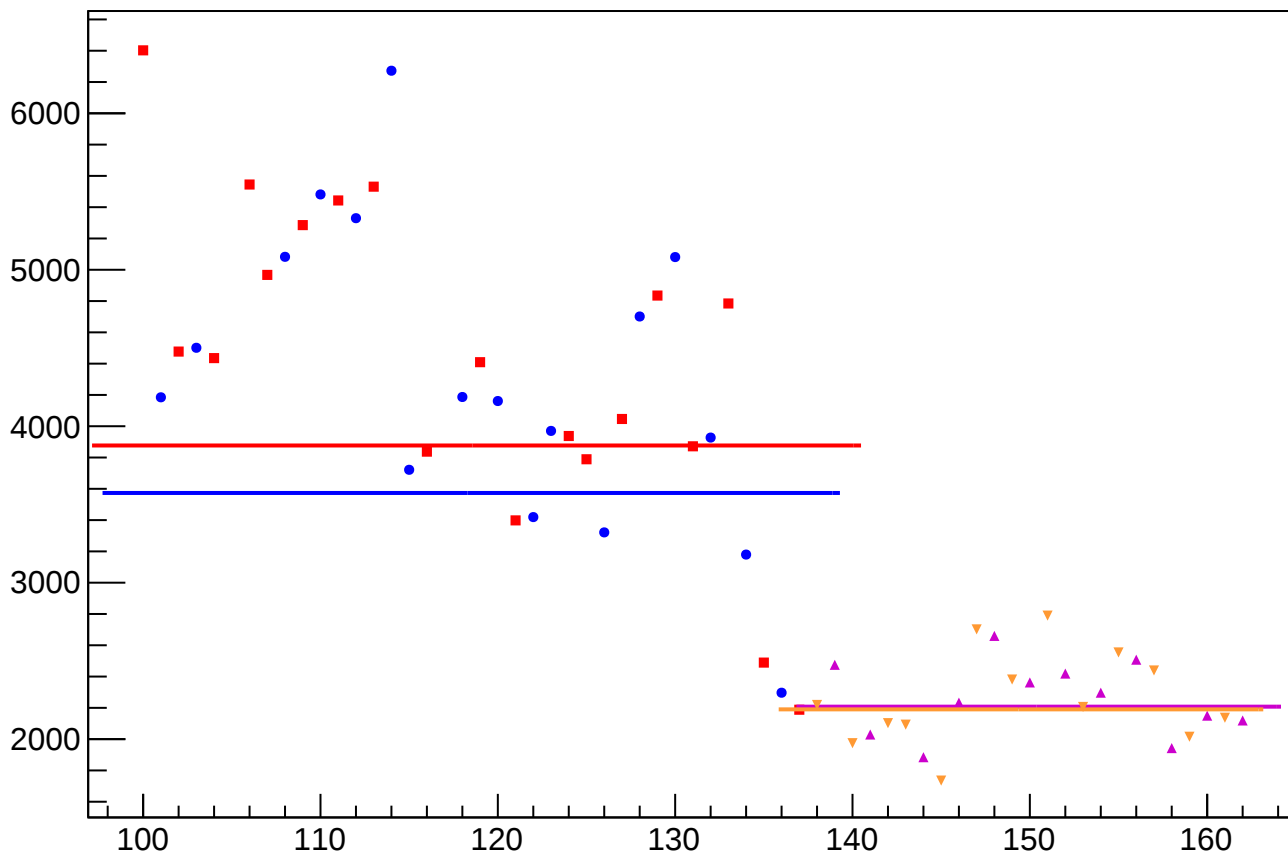
Right: 1380.346+/-1041.320  $\chi^2/\text{NDF}$ : 35.3/35

In: 835.302+/-636.420  $\chi^2/\text{NDF}$ : 36.5/28

Out: 1086.590+/-641.411  $\chi^2/\text{NDF}$ : 38.4/31

All: 959.964+/-451.771  $\chi^2/\text{NDF}$ : 75.0/60

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3573.470 $\pm$ 1.019  $\chi^2$ /NDF: 1088731.5/16

Left Out: 2190.327 $\pm$ 0.501  $\chi^2$ /NDF:328463.5/12

Right Out: 3876.914 $\pm$ 1.066  $\chi^2$ /NDF: 988409.8/18

Left In: 2207.639 $\pm$ 0.502  $\chi^2$ /NDF:207349.8/11

Left: 2198.975 $\pm$ 0.355  $\chi^2$ /NDF: 536409.3/24

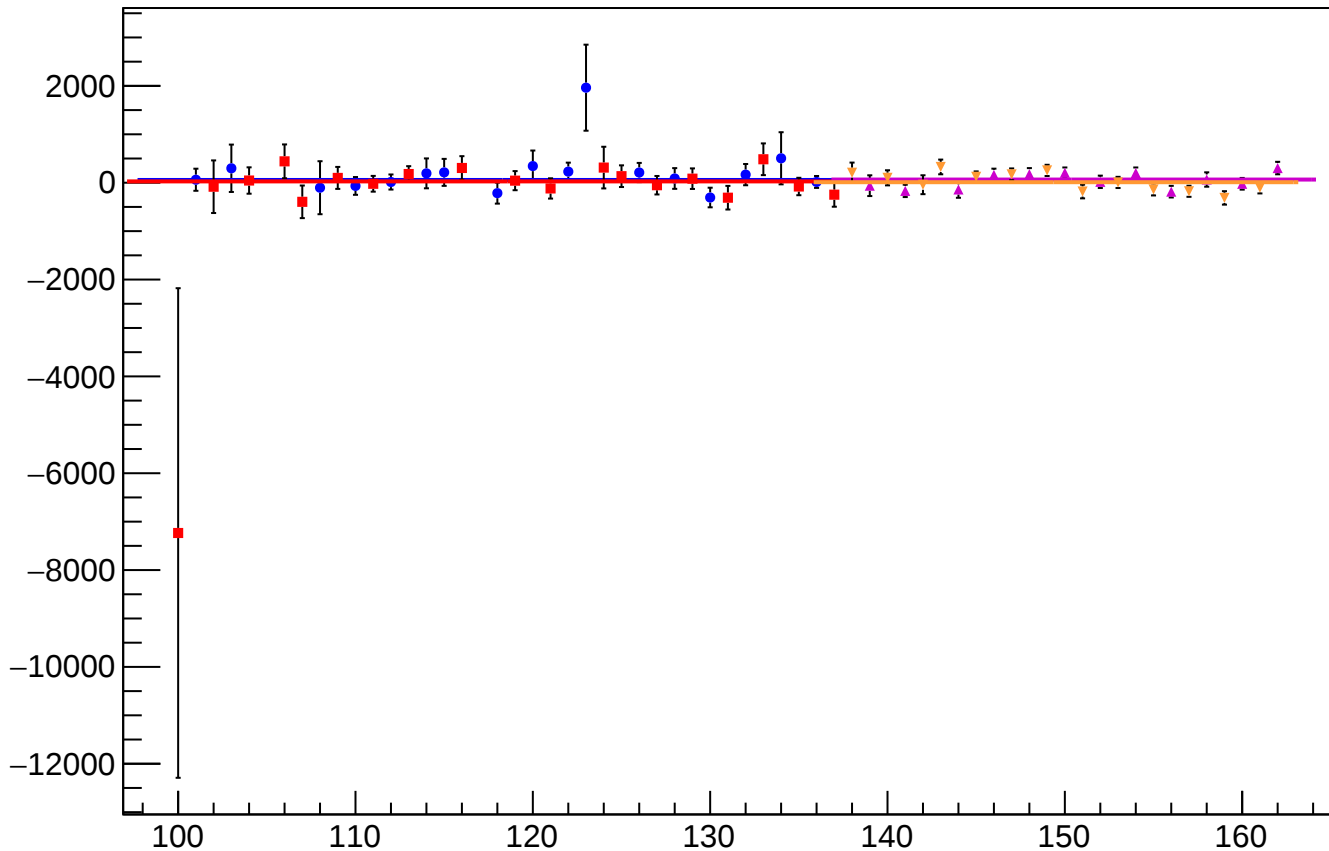
Right: 3718.342 $\pm$ 0.736  $\chi^2$ /NDF: 2119512.7/35

In: 2474.241 $\pm$ 0.450  $\chi^2$ /NDF:2743169.3/28

Out: 2495.832 $\pm$ 0.454  $\chi^2$ /NDF:3368010.2/31

All: 2484.952 $\pm$ 0.319  $\chi^2$ /NDF: 6112321.4/60

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 56.595+/-53.880  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 10.766+/-36.694  $\chi^2/\text{NDF}$ : 25.1/12

Right Out: 27.299+/-54.033  $\chi^2/\text{NDF}$ : 14.3/18

Left In: 65.247+/-37.550  $\chi^2/\text{NDF}$ : 18.0/11

Left: 37.378+/-26.244  $\chi^2/\text{NDF}$ : 44.1/24

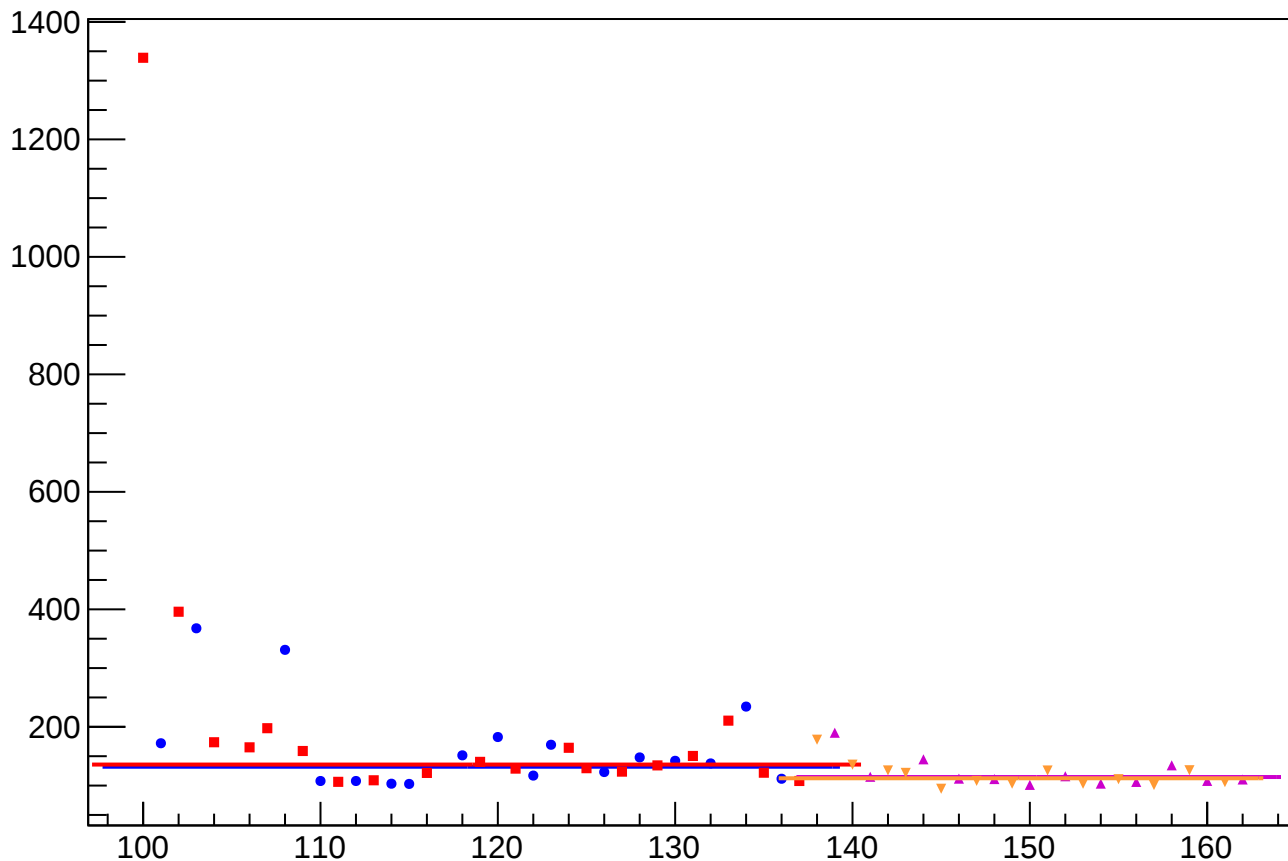
Right: 41.988+/-38.153  $\chi^2/\text{NDF}$ : 28.5/35

In: 62.419+/-30.807  $\chi^2/\text{NDF}$ : 32.1/28

Out: 15.984+/-30.356  $\chi^2/\text{NDF}$ : 39.4/31

All: 38.859+/-21.622  $\chi^2/\text{NDF}$ : 72.6/60

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 132.104 $\pm$ 0.038  $\chi^2$ /NDF: 1144612.1/16

Left Out: 112.427 $\pm$ 0.026  $\chi^2$ /NDF: 400542.7/12

Right Out: 135.773 $\pm$ 0.038  $\chi^2$ /NDF: 1009635.6/18

Left In: 114.559 $\pm$ 0.027  $\chi^2$ /NDF: 414945.4/11

Left: 113.469 $\pm$ 0.019  $\chi^2$ /NDF: 818786.4/24

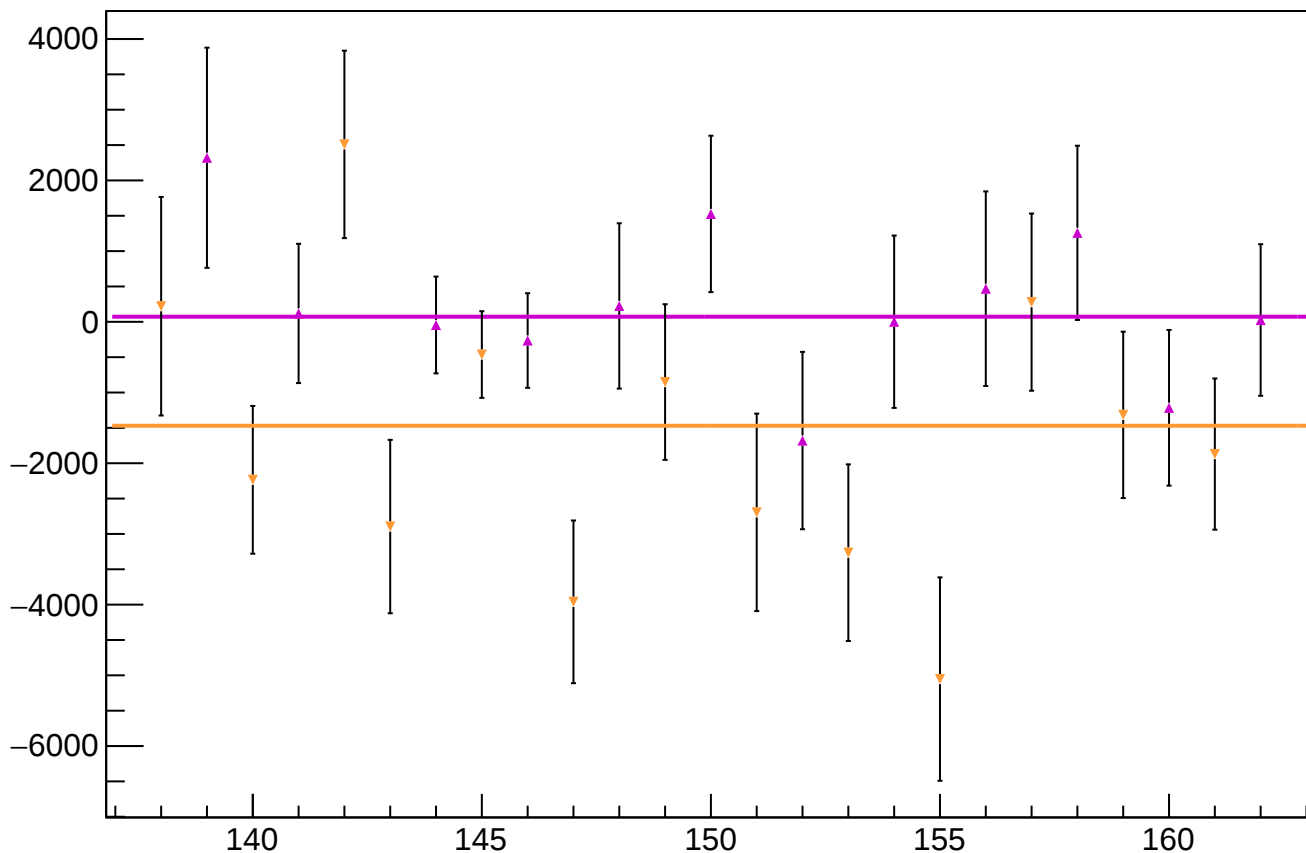
Right: 133.933 $\pm$ 0.027  $\chi^2$ /NDF: 2158872.4/35

In: 120.295 $\pm$ 0.022  $\chi^2$ /NDF: 1702287.9/28

Out: 119.796 $\pm$ 0.021  $\chi^2$ /NDF: 1665702.1/31

All: 120.041 $\pm$ 0.015  $\chi^2$ /NDF: 3368256.5/60

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1470.053+/-305.980  $\chi^2/\text{NDF}$ :30.9/12

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

Left In: 72.305+/-294.226  $\chi^2/\text{NDF}$ :8.4/11

Left: -668.681+/-212.083  $\chi^2/\text{NDF}$ : 52.6/24

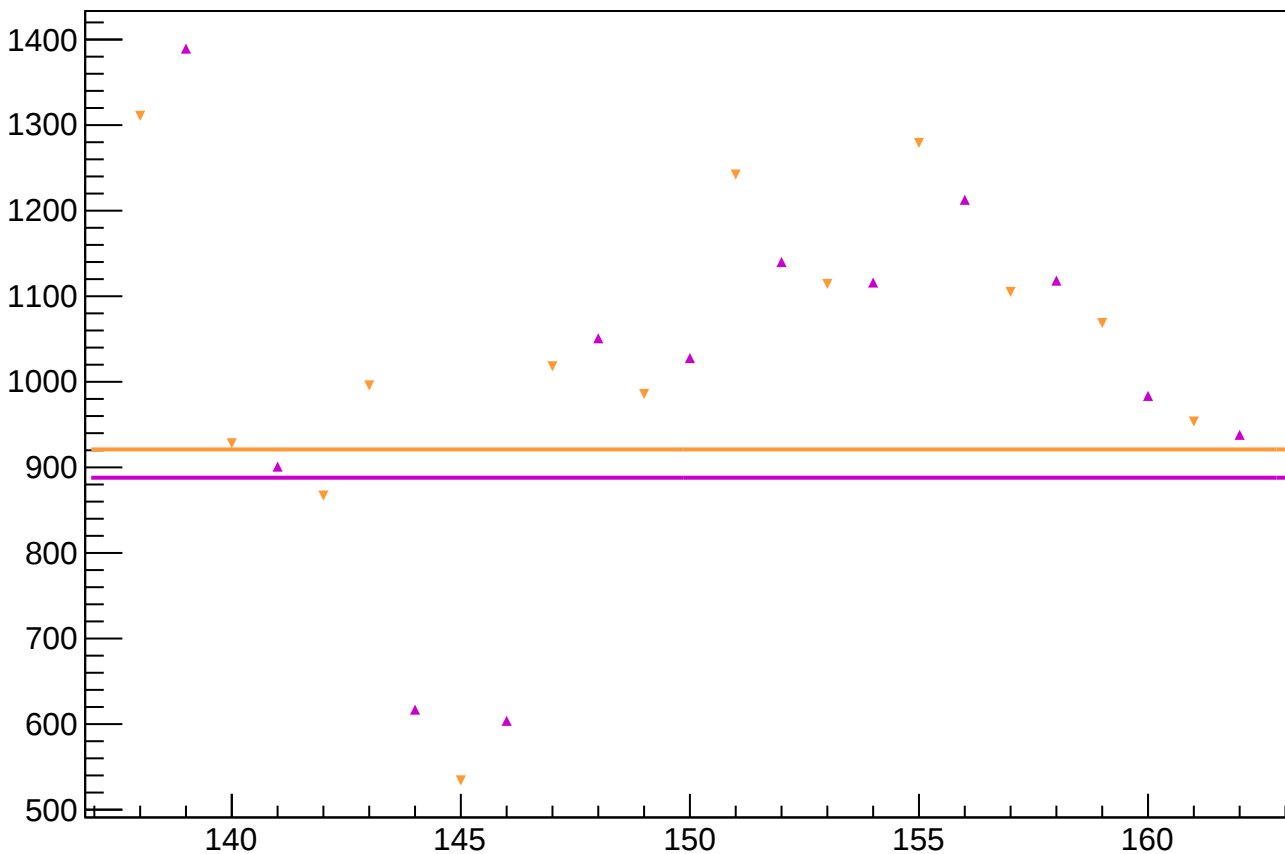
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 72.305+/-294.226  $\chi^2/\text{NDF}$ :8.4/11

Out: -1470.053+/-305.980  $\chi^2/\text{NDF}$ :30.9/12

All: -668.681+/-212.083  $\chi^2/\text{NDF}$ : 52.6/24

# asym\_sam3\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 920.974+/-0.216  $\chi^2/\text{NDF}$ :1310159.4/12

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

Left In: 887.936+/-0.208  $\chi^2/\text{NDF}$ :1304528.2/11

Left: 903.808+/-0.150  $\chi^2/\text{NDF}$ : 2626802.8/24

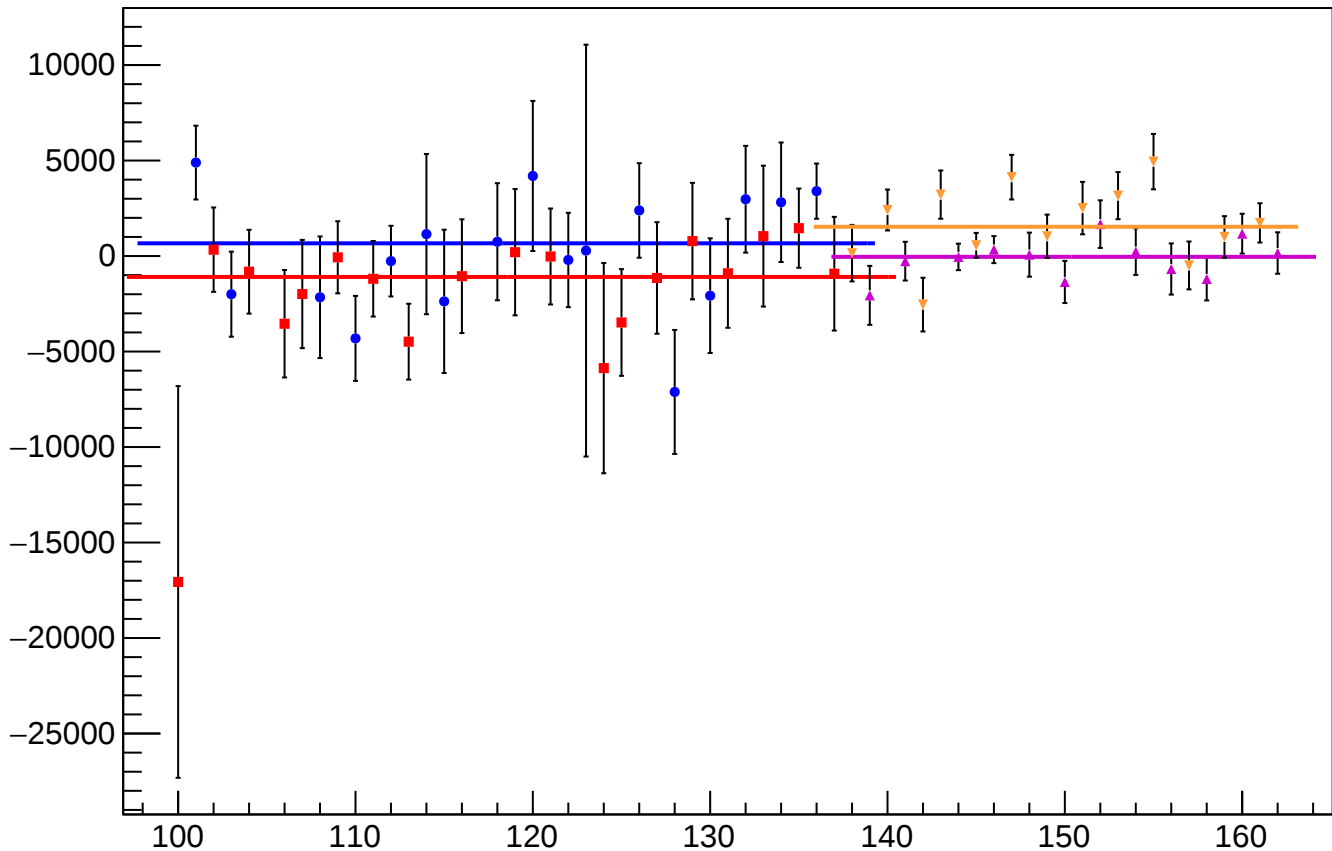
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 887.936+/-0.208  $\chi^2/\text{NDF}$ :1304528.2/11

Out: 920.974+/-0.216  $\chi^2/\text{NDF}$ :1310159.4/12

All: 903.808+/-0.150  $\chi^2/\text{NDF}$ : 2626802.8/24

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In:  $666.453 \pm 618.839$   $\chi^2/\text{NDF}$ : 25.6/16

Left Out:  $1533.191 \pm 309.672$   $\chi^2/\text{NDF}$ : 29.7/12

Right Out:  $-1094.278 \pm 602.639$   $\chi^2/\text{NDF}$ : 11.0/18

Left In:  $-42.361 \pm 295.205$   $\chi^2/\text{NDF}$ : 8.1/11

Left:  $707.755 \pm 213.673$   $\chi^2/\text{NDF}$ : 51.4/24

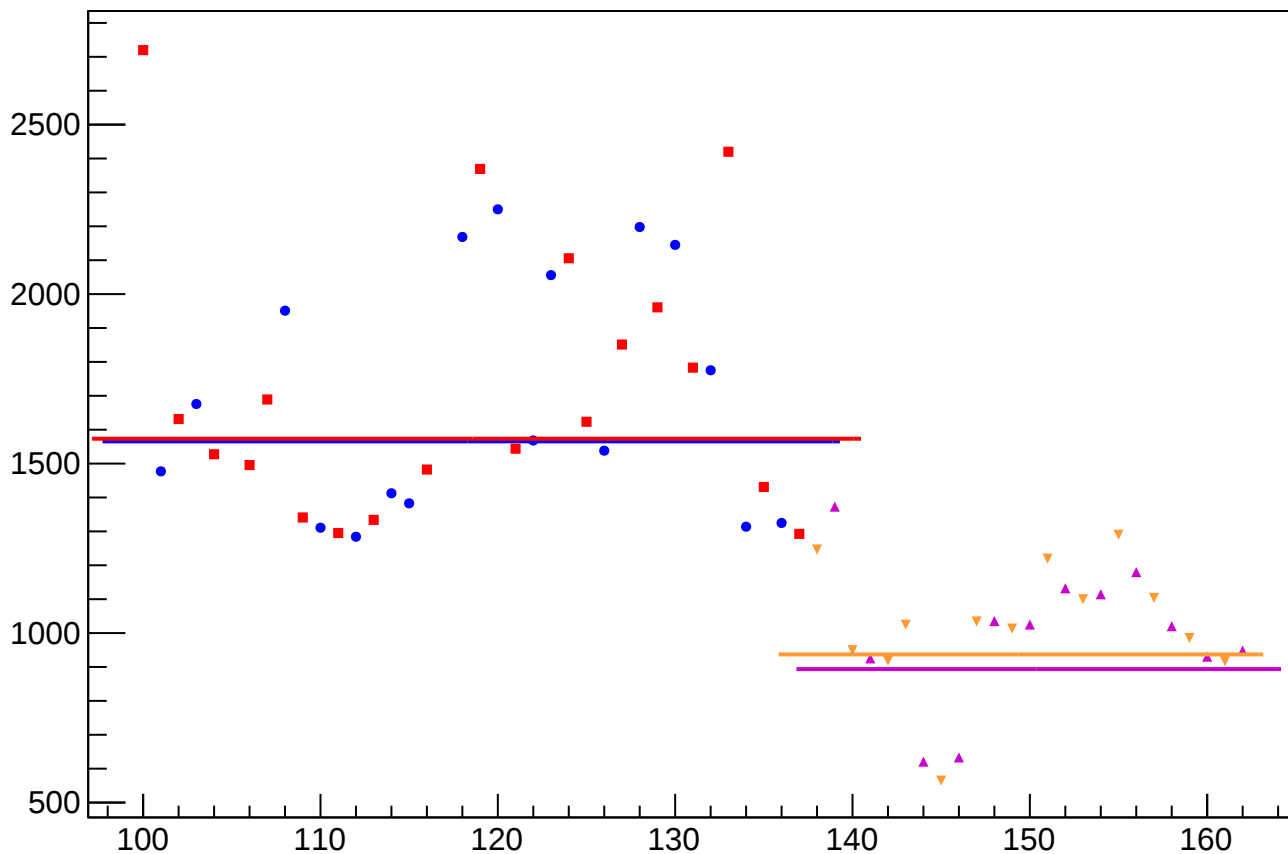
Right:  $-237.260 \pm 431.744$   $\chi^2/\text{NDF}$ : 40.8/35

In:  $89.035 \pm 266.442$   $\chi^2/\text{NDF}$ : 34.8/28

Out:  $984.331 \pm 275.435$   $\chi^2/\text{NDF}$ : 55.8/31

All:  $521.829 \pm 191.503$   $\chi^2/\text{NDF}$ : 96.0/60

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1565.623+/-0.438  $\chi^2/\text{NDF}$ : 490790.2/16

Left Out: 937.060+/-0.219  $\chi^2/\text{NDF}$ : 1054778.1/12

Right Out: 1573.366+/-0.426  $\chi^2/\text{NDF}$ : 462040.3/18

Left In: 893.774+/-0.209  $\chi^2/\text{NDF}$ : 1096940.5/11

Left: 914.382+/-0.151  $\chi^2/\text{NDF}$ : 2172191.5/24

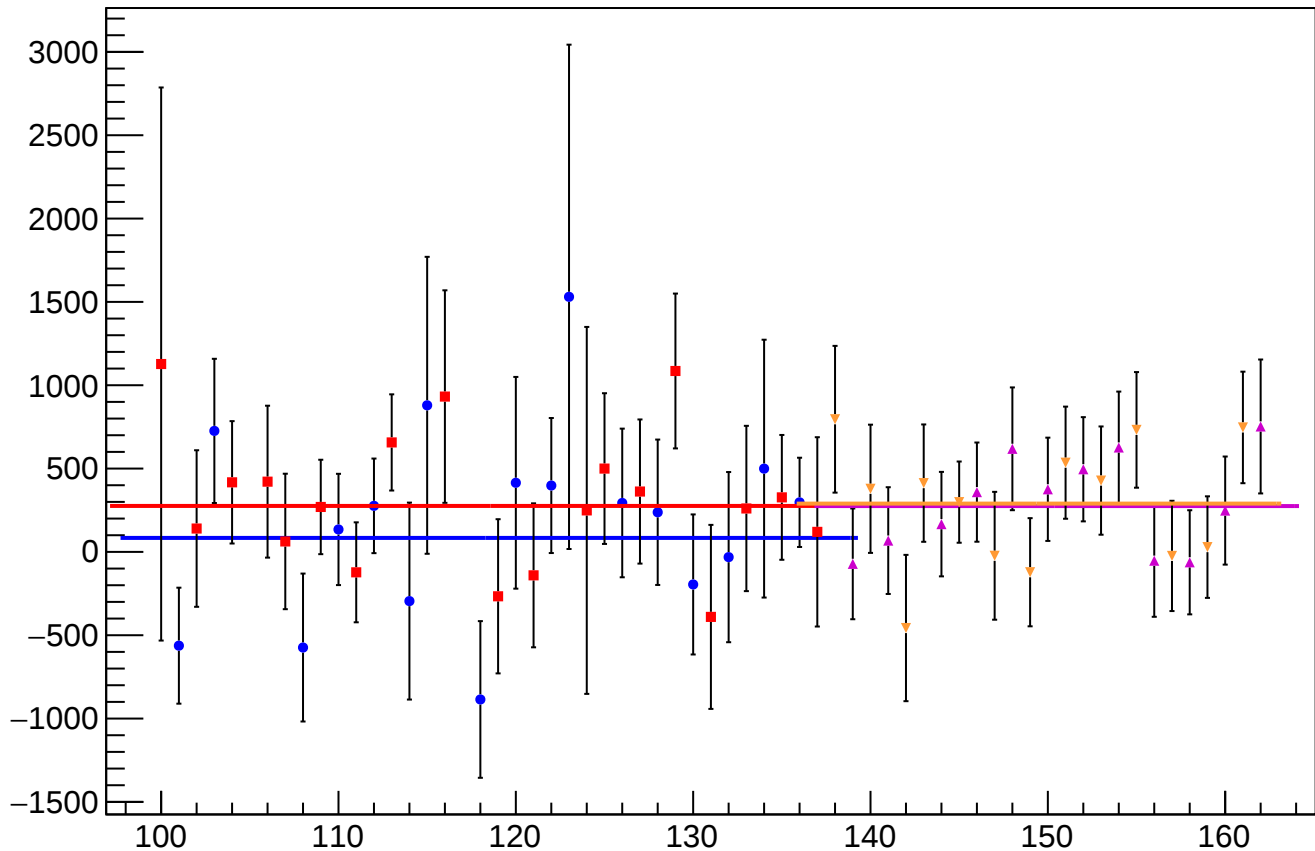
Right: 1569.597+/-0.305  $\chi^2/\text{NDF}$ : 952991.2/35

In: 1018.318+/-0.188  $\chi^2/\text{NDF}$ : 3508058.9/28

Out: 1069.980+/-0.195  $\chi^2/\text{NDF}$ : 3280749.8/31

All: 1043.292+/-0.135  $\chi^2/\text{NDF}$ : 6825157.0/60

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In:  $83.935 \pm 103.619$   $\chi^2/\text{NDF}: 17.3/16$

Left Out:  $289.737 \pm 93.748$   $\chi^2/\text{NDF}: 12.5/12$

Right Out:  $275.803 \pm 97.798$   $\chi^2/\text{NDF}: 12.6/18$

Left In:  $274.971 \pm 94.509$   $\chi^2/\text{NDF}: 7.8/11$

Left:  $282.414 \pm 66.557$   $\chi^2/\text{NDF}: 20.3/24$

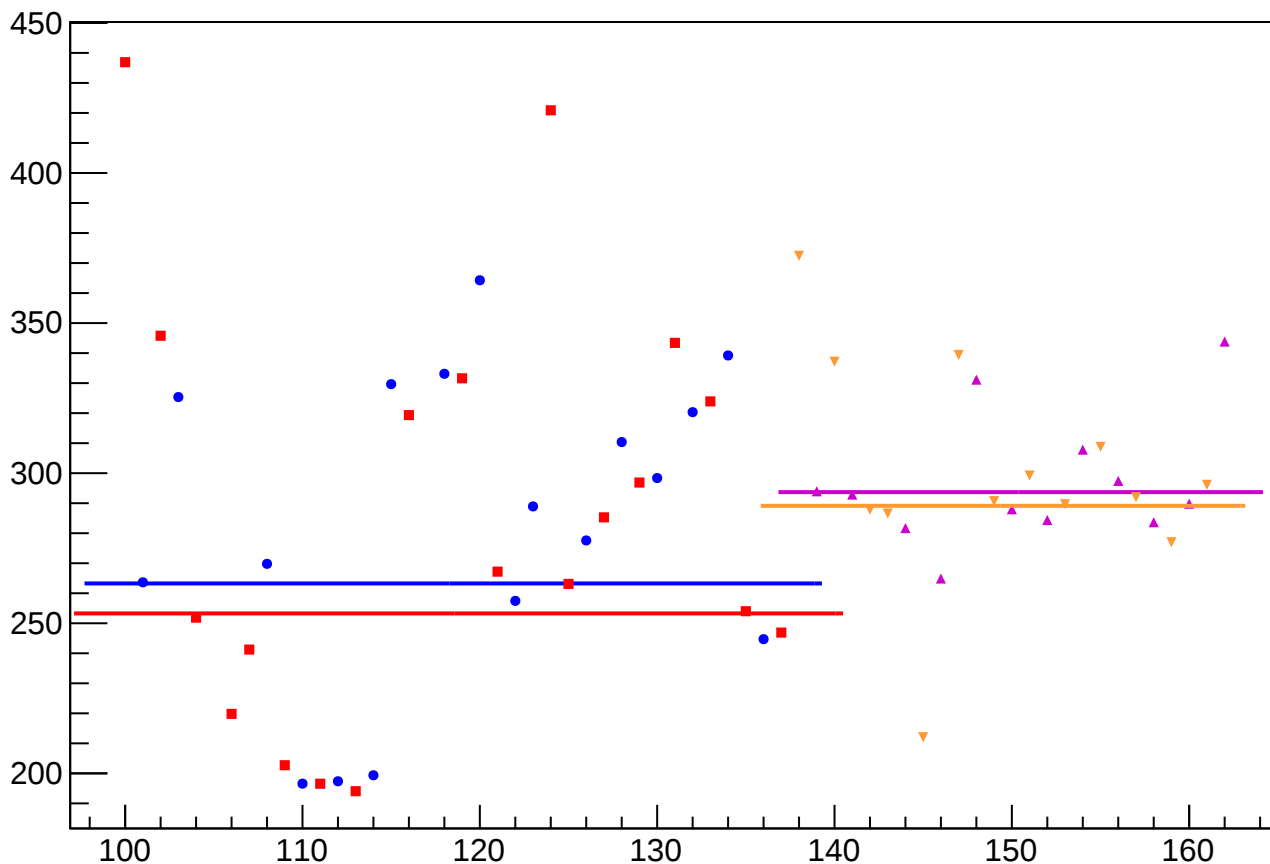
Right:  $185.409 \pm 71.122$   $\chi^2/\text{NDF}: 31.8/35$

In:  $188.218 \pm 69.827$   $\chi^2/\text{NDF}: 27.0/28$

Out:  $283.065 \pm 67.676$   $\chi^2/\text{NDF}: 25.1/31$

All:  $237.124 \pm 48.597$   $\chi^2/\text{NDF}: 53.1/60$

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 263.262 $\pm$ 0.073  $\chi^2$ /NDF: 452757.7/16

Left Out: 289.126 $\pm$ 0.066  $\chi^2$ /NDF: 349909.0/12

Right Out: 253.283 $\pm$ 0.069  $\chi^2$ /NDF: 585121.8/18

Left In: 293.688 $\pm$ 0.067  $\chi^2$ /NDF: 82103.6/11

Left: 291.388 $\pm$ 0.047  $\chi^2$ /NDF: 434361.0/24

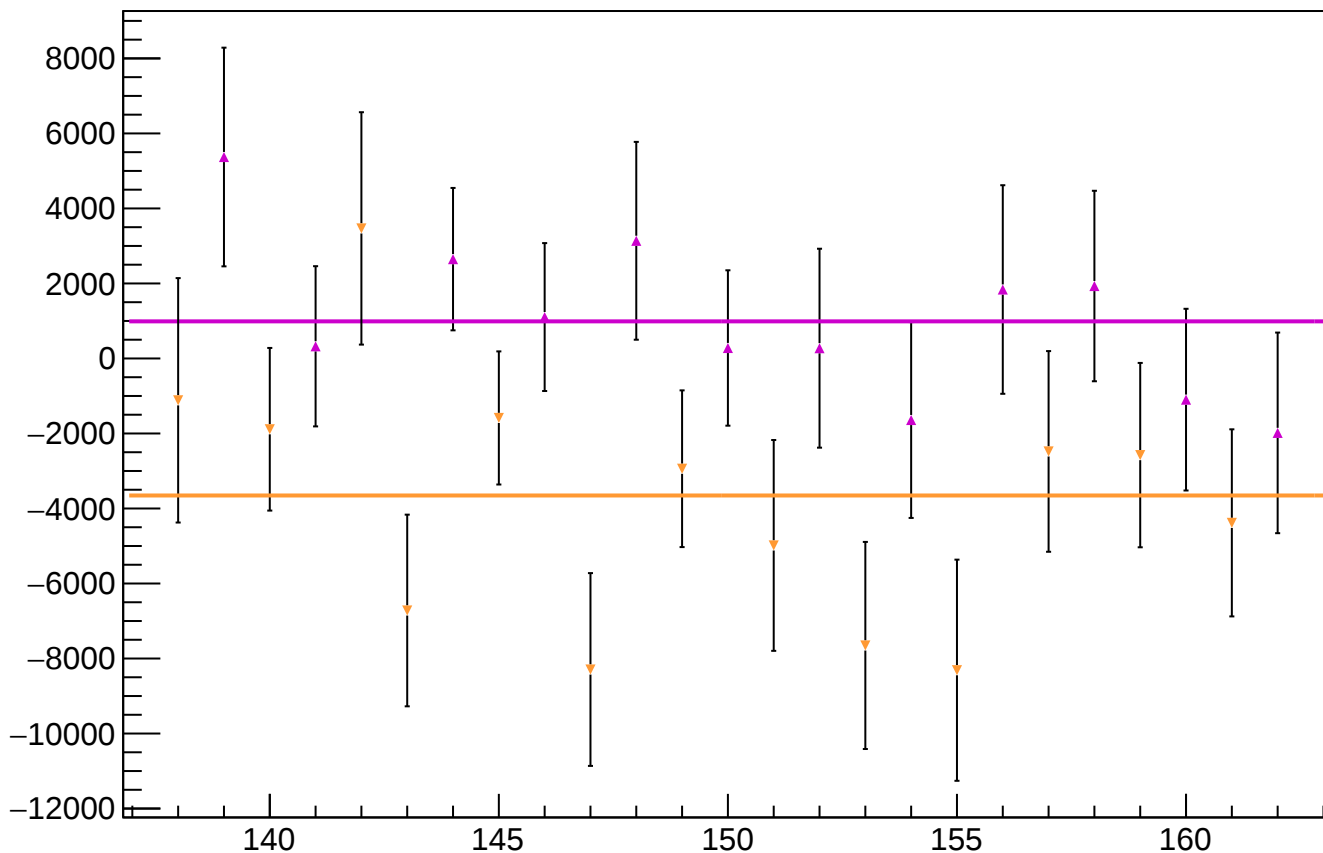
Right: 257.985 $\pm$ 0.050  $\chi^2$ /NDF: 1047690.7/35

In: 279.871 $\pm$ 0.049  $\chi^2$ /NDF: 628988.9/28

Out: 271.962 $\pm$ 0.048  $\chi^2$ /NDF: 1075031.8/31

All: 275.793 $\pm$ 0.034  $\chi^2$ /NDF: 1717250.5/60

# asym\_sam4\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -3653.128+/-689.870  $\chi^2/\text{NDF}$ :18.0/12

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

Left In: 989.266+/-684.868  $\chi^2/\text{NDF}$ :7.2/11

Left: -1315.040+/-486.033  $\chi^2/\text{NDF}$ : 48.0/24

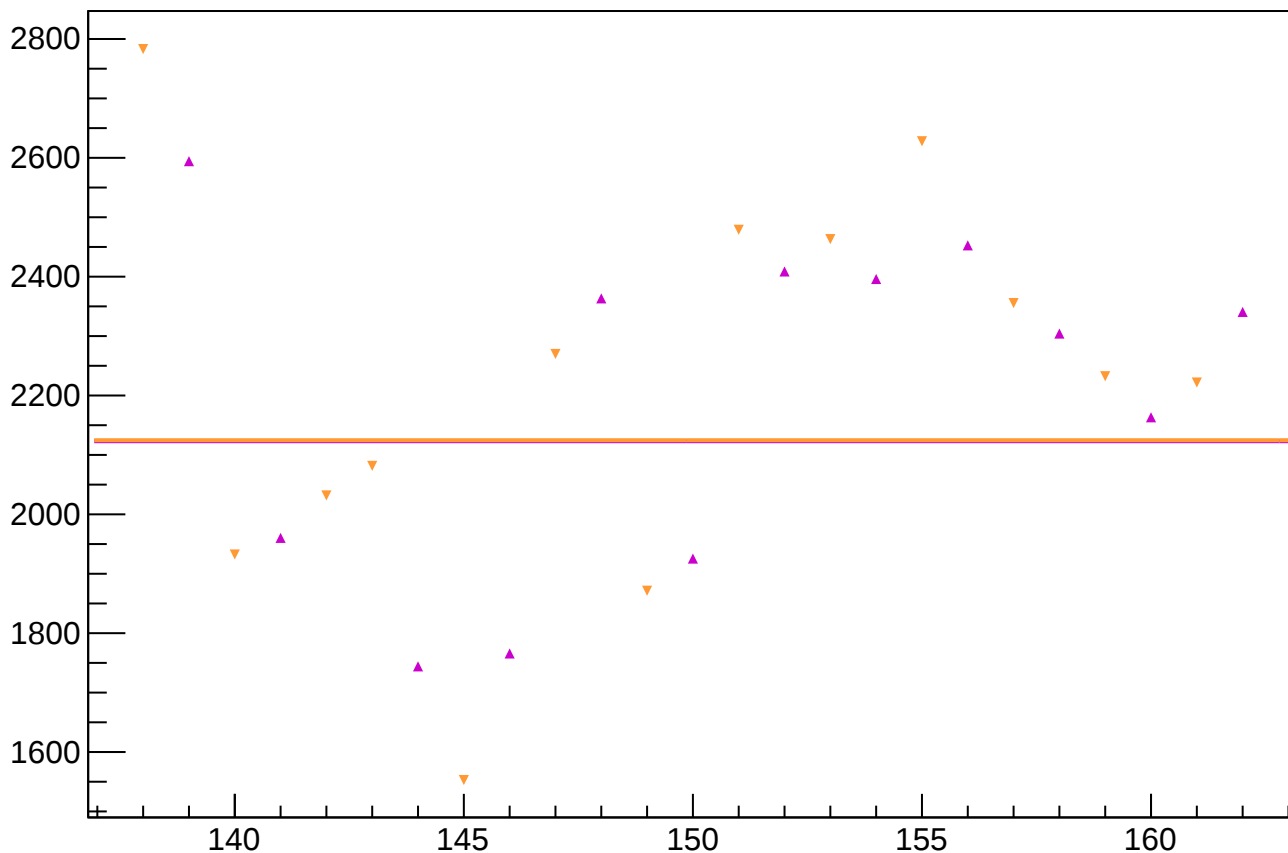
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 989.266+/-684.868  $\chi^2/\text{NDF}$ :7.2/11

Out: -3653.128+/-689.870  $\chi^2/\text{NDF}$ :18.0/12

All: -1315.040+/-486.033  $\chi^2/\text{NDF}$ : 48.0/24

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2124.724+/-0.488  $\chi^2/\text{NDF}$ : 485112.1/12

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

Left In: 2123.064+/-0.484  $\chi^2/\text{NDF}$ : 341163.9/11

Left: 2123.888+/-0.344  $\chi^2/\text{NDF}$ : 826281.7/24

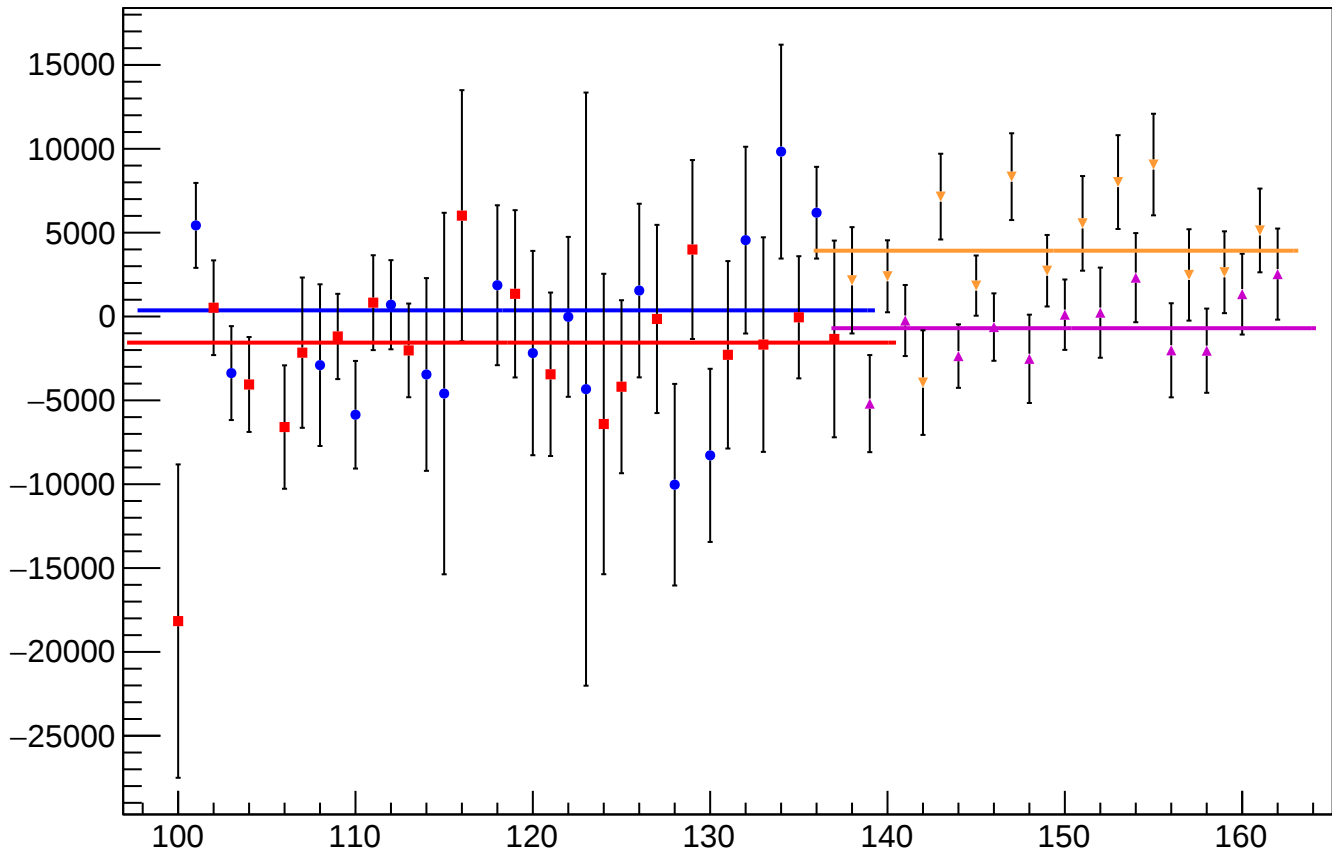
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2123.064+/-0.484  $\chi^2/\text{NDF}$ : 341163.9/11

Out: 2124.724+/-0.488  $\chi^2/\text{NDF}$ : 485112.1/12

All: 2123.888+/-0.344  $\chi^2/\text{NDF}$ : 826281.7/24

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In:  $366.454 \pm 992.480$   $\chi^2/\text{NDF}: 24.2/16$

Left Out:  $3924.218 \pm 693.774$   $\chi^2/\text{NDF}: 19.5/12$

Right Out:  $-1557.388 \pm 924.003$   $\chi^2/\text{NDF}: 10.5/18$

Left In:  $-697.331 \pm 687.951$   $\chi^2/\text{NDF}: 7.9/11$

Left:  $1593.969 \pm 488.501$   $\chi^2/\text{NDF}: 49.7/24$

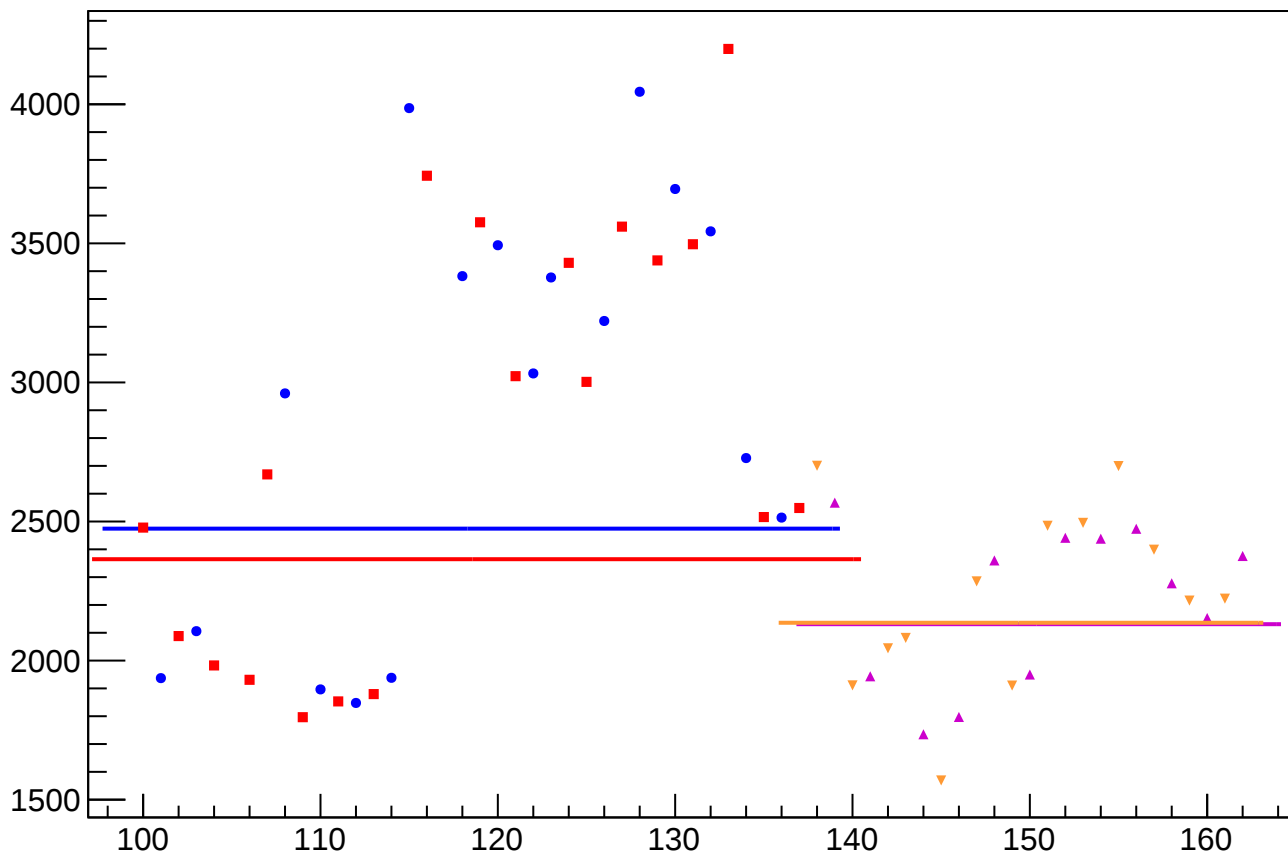
Right:  $-664.120 \pm 676.282$   $\chi^2/\text{NDF}: 36.7/35$

In:  $-352.089 \pm 565.402$   $\chi^2/\text{NDF}: 32.8/28$

Out:  $1948.027 \pm 554.797$   $\chi^2/\text{NDF}: 52.5/31$

All:  $819.743 \pm 395.997$   $\chi^2/\text{NDF}: 93.8/60$

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2474.389+/-0.702  $\chi^2/\text{NDF}$ : 906262.1/16

Left Out: 2136.000+/-0.491  $\chi^2/\text{NDF}$ : 472349.0/12

Right Out: 2364.507+/-0.653  $\chi^2/\text{NDF}$ : 1023402.8/18

Left In: 2130.869+/-0.486  $\chi^2/\text{NDF}$ : 340341.8/11

Left: 2133.413+/-0.345  $\chi^2/\text{NDF}$ : 812746.0/24

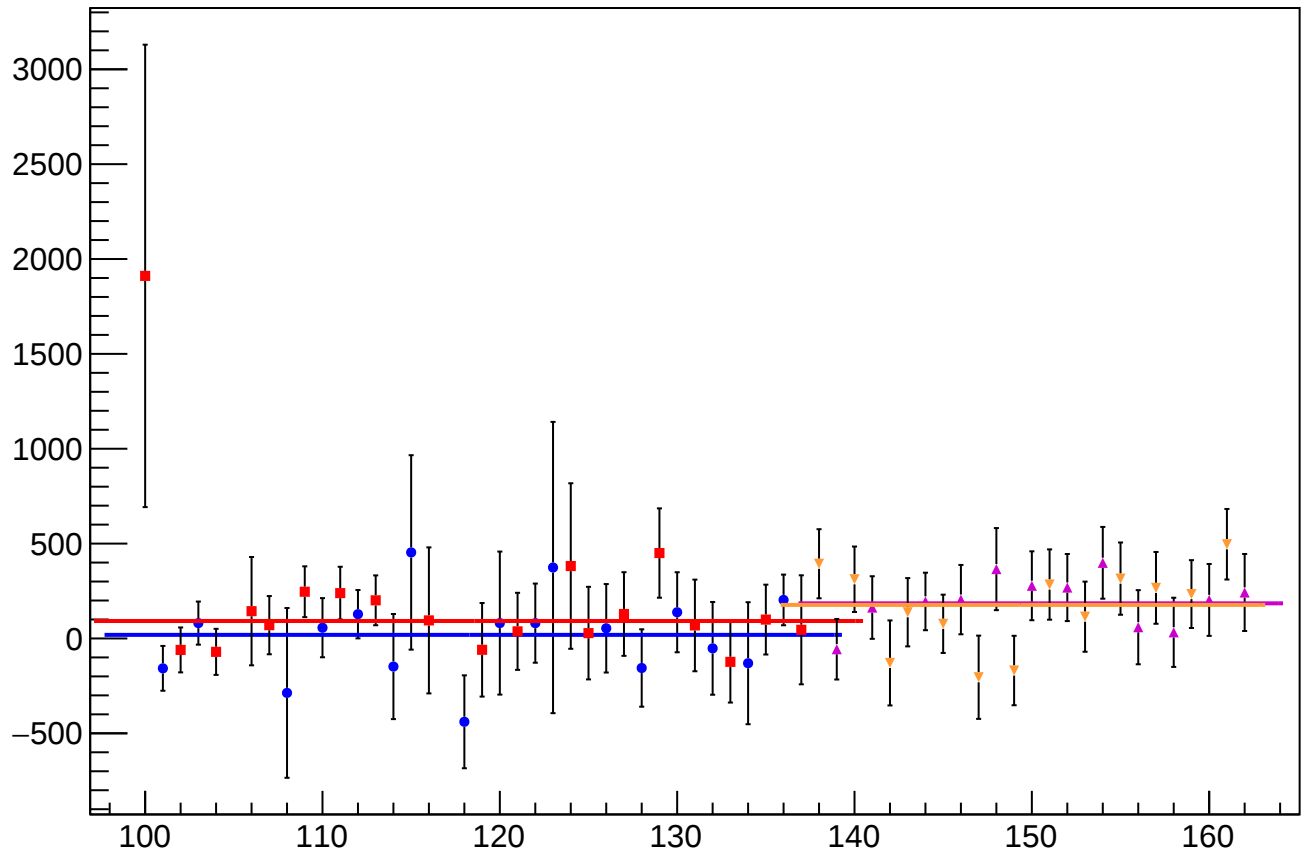
Right: 2415.527+/-0.478  $\chi^2/\text{NDF}$ : 1942797.3/35

In: 2242.355+/-0.400  $\chi^2/\text{NDF}$ : 1408445.2/28

Out: 2218.380+/-0.392  $\chi^2/\text{NDF}$ : 1573971.4/31

All: 2230.141+/-0.280  $\chi^2/\text{NDF}$ : 2984248.7/60

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 18.930±46.147  $\chi^2/\text{NDF}$ : 12.0/16

Left Out: 176.843±51.185  $\chi^2/\text{NDF}$ :15.2/12

Right Out: 91.993±42.693  $\chi^2/\text{NDF}$ : 13.2/18

Left In: 185.110±52.023  $\chi^2/\text{NDF}$ :6.0/11

Left: 180.910±36.486  $\chi^2/\text{NDF}$ : 21.2/24

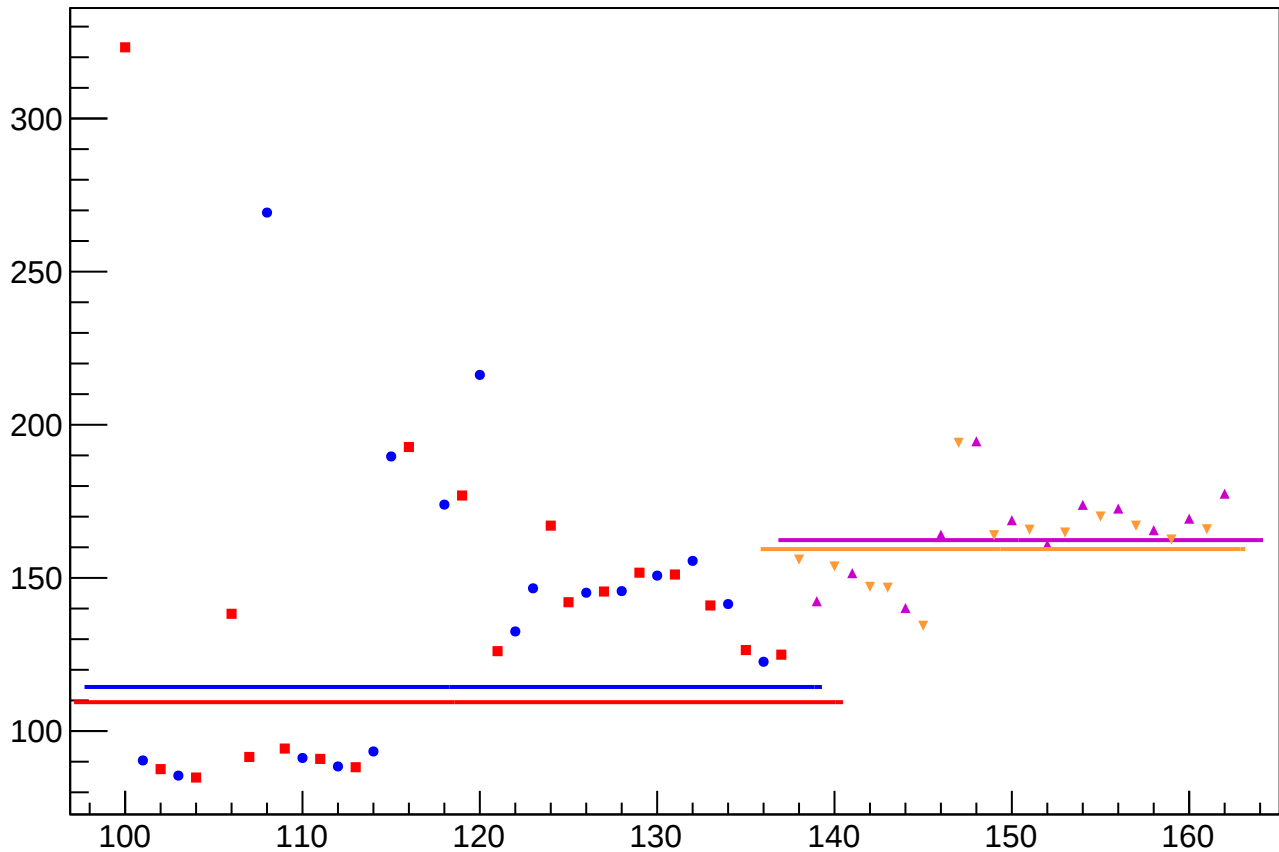
Right: 58.298±31.339  $\chi^2/\text{NDF}$ : 26.5/35

In: 92.109±34.522  $\chi^2/\text{NDF}$ :23.7/28

Out: 126.805±32.786  $\chi^2/\text{NDF}$ :30.0/31

All: 110.352±23.773  $\chi^2/\text{NDF}$ : 54.3/60

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 114.391 $\pm$ 0.033  $\chi^2$ /NDF: 1136702.0/16

Left Out: 159.416 $\pm$ 0.036  $\chi^2$ /NDF: 139713.8/12

Right Out: 109.428 $\pm$ 0.030  $\chi^2$ /NDF: 944386.0/18

Left In: 162.345 $\pm$ 0.037  $\chi^2$ /NDF: 157500.4/11

Left: 160.857 $\pm$ 0.026  $\chi^2$ /NDF: 300435.2/24

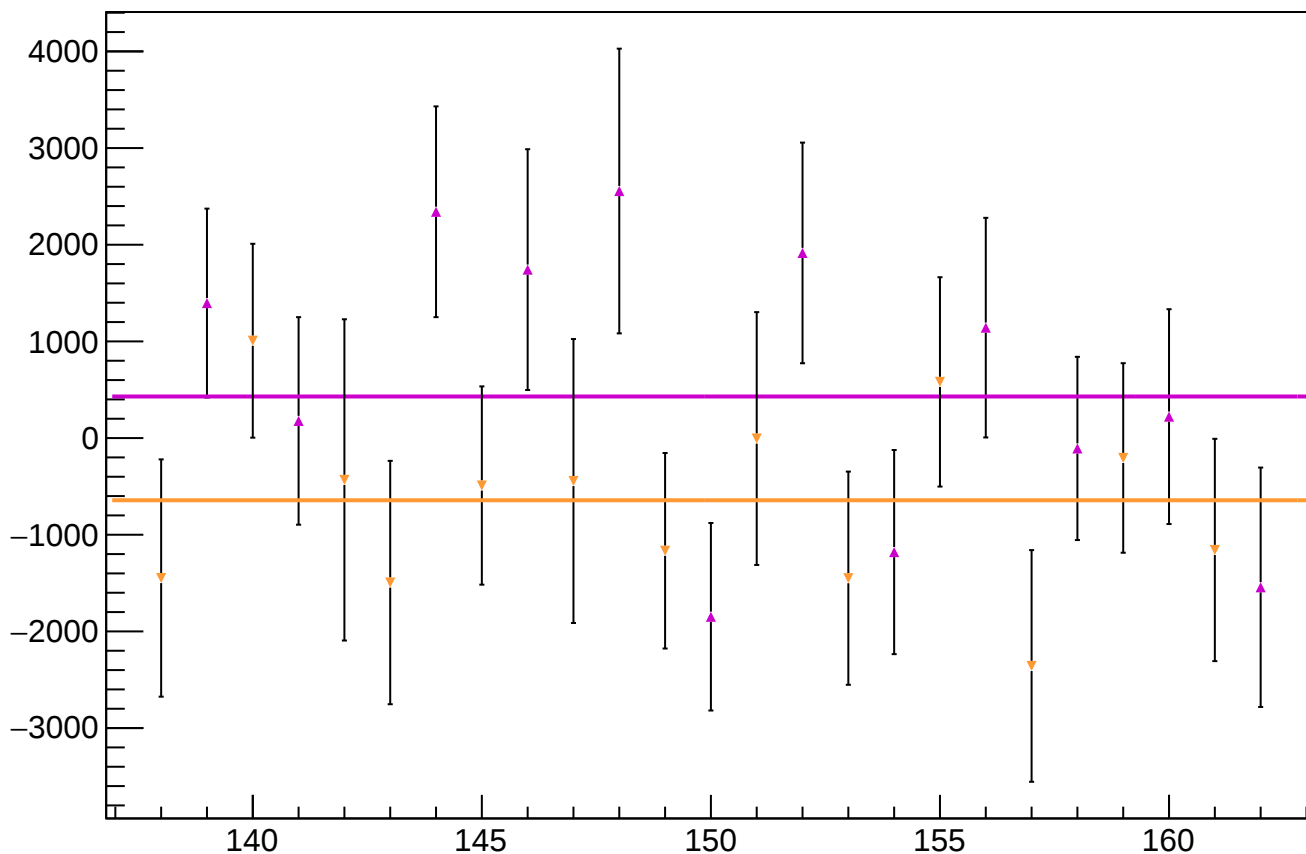
Right: 111.717 $\pm$ 0.022  $\chi^2$ /NDF: 2093555.7/35

In: 135.508 $\pm$ 0.024  $\chi^2$ /NDF: 2245224.6/28

Out: 129.937 $\pm$ 0.023  $\chi^2$ /NDF: 2209040.6/31

All: 132.579 $\pm$ 0.017  $\chi^2$ /NDF: 4481650.4/60

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -643.319+/-319.493  $\chi^2/\text{NDF}$ : 8.4/12

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

Left In: 430.132+/-317.166  $\chi^2/\text{NDF}$ : 20.1/11

Left: -102.669+/-225.088  $\chi^2/\text{NDF}$ : 34.2/24

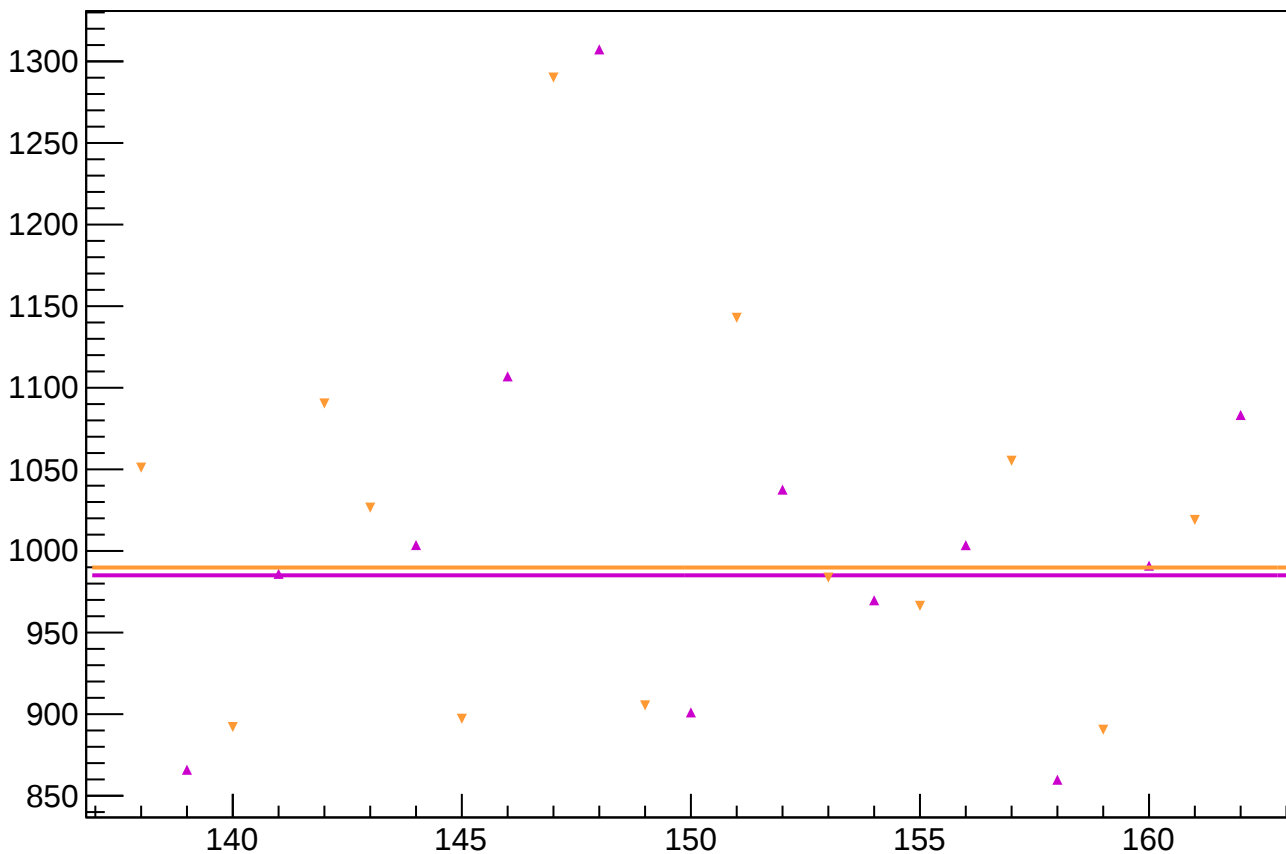
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 430.132+/-317.166  $\chi^2/\text{NDF}$ : 20.1/11

Out: -643.319+/-319.493  $\chi^2/\text{NDF}$ : 8.4/12

All: -102.669+/-225.088  $\chi^2/\text{NDF}$ : 34.2/24

# asym\_sam5\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 989.861+/-0.226  $\chi^2/\text{NDF}$ :203050.1/12

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

Left In: 985.071+/-0.224  $\chi^2/\text{NDF}$ :213020.7/11

Left: 987.448+/-0.159  $\chi^2/\text{NDF}$ : 416297.2/24

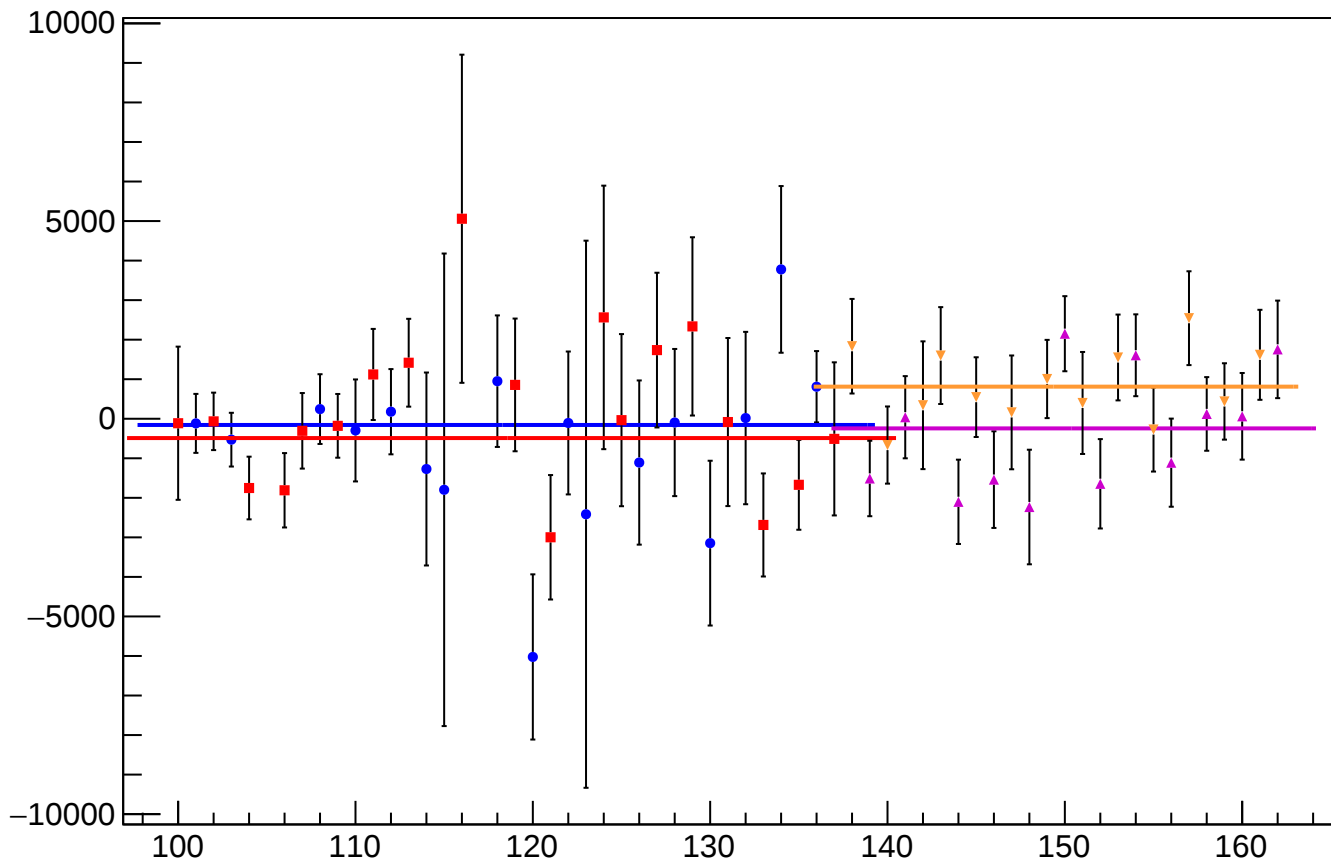
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 985.071+/-0.224  $\chi^2/\text{NDF}$ :213020.7/11

Out: 989.861+/-0.226  $\chi^2/\text{NDF}$ :203050.1/12

All: 987.448+/-0.159  $\chi^2/\text{NDF}$ : 416297.2/24

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-157.178 \pm 312.499$   $\chi^2/\text{NDF}: 16.2/16$

Left Out:  $812.000 \pm 313.498$   $\chi^2/\text{NDF}: 8.2/12$

Right Out:  $-488.583 \pm 282.758$   $\chi^2/\text{NDF}: 22.6/18$

Left In:  $-243.843 \pm 311.242$   $\chi^2/\text{NDF}: 22.4/11$

Left:  $280.266 \pm 220.875$   $\chi^2/\text{NDF}: 36.4/24$

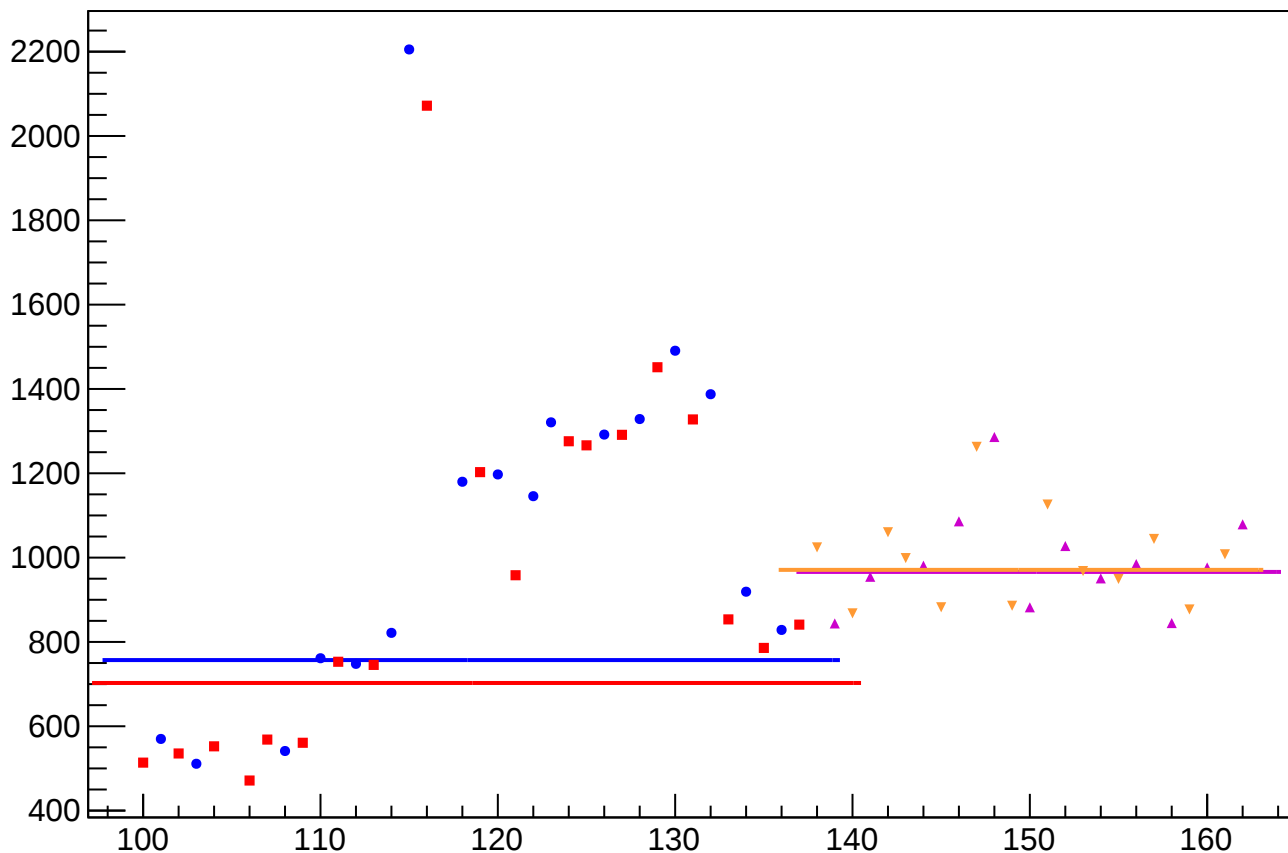
Right:  $-339.397 \pm 209.669$   $\chi^2/\text{NDF}: 39.5/35$

In:  $-200.685 \pm 220.525$   $\chi^2/\text{NDF}: 38.7/28$

Out:  $94.835 \pm 209.969$   $\chi^2/\text{NDF}: 40.3/31$

All:  $-45.683 \pm 152.065$   $\chi^2/\text{NDF}: 80.0/60$

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.985 $\pm$ 0.221  $\chi^2$ /NDF: 1711285.9/16

Left Out: 970.932 $\pm$ 0.222  $\chi^2$ /NDF: 204350.8/12

Right Out: 702.656 $\pm$ 0.200  $\chi^2$ /NDF: 1689579.7/18

Left In: 966.063 $\pm$ 0.220  $\chi^2$ /NDF: 223645.7/11

Left: 968.480 $\pm$ 0.156  $\chi^2$ /NDF: 428239.4/24

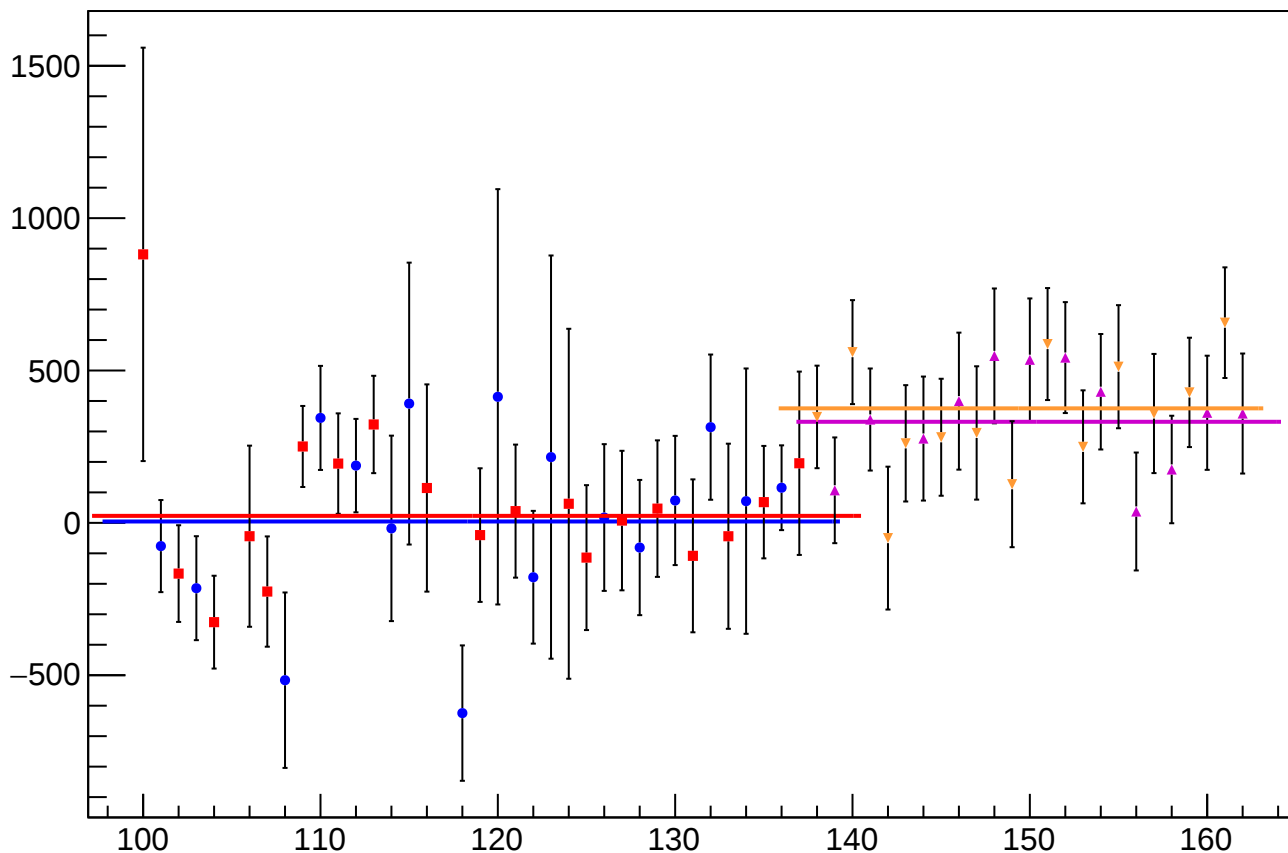
Right: 727.113 $\pm$ 0.148  $\chi^2$ /NDF: 3434103.1/35

In: 861.945 $\pm$ 0.156  $\chi^2$ /NDF: 2384363.8/28

Out: 823.000 $\pm$ 0.148  $\chi^2$ /NDF: 2701544.2/31

All: 841.518 $\pm$ 0.108  $\chi^2$ /NDF: 5118625.4/60

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $4.533 \pm 52.509$   $\chi^2/\text{NDF}: 23.1/16$

Left Out:  $375.810 \pm 52.893$   $\chi^2/\text{NDF}: 11.4/12$

Right Out:  $22.985 \pm 47.854$   $\chi^2/\text{NDF}: 19.0/18$

Left In:  $331.708 \pm 55.127$   $\chi^2/\text{NDF}: 8.6/11$

Left:  $354.671 \pm 38.166$   $\chi^2/\text{NDF}: 20.3/24$

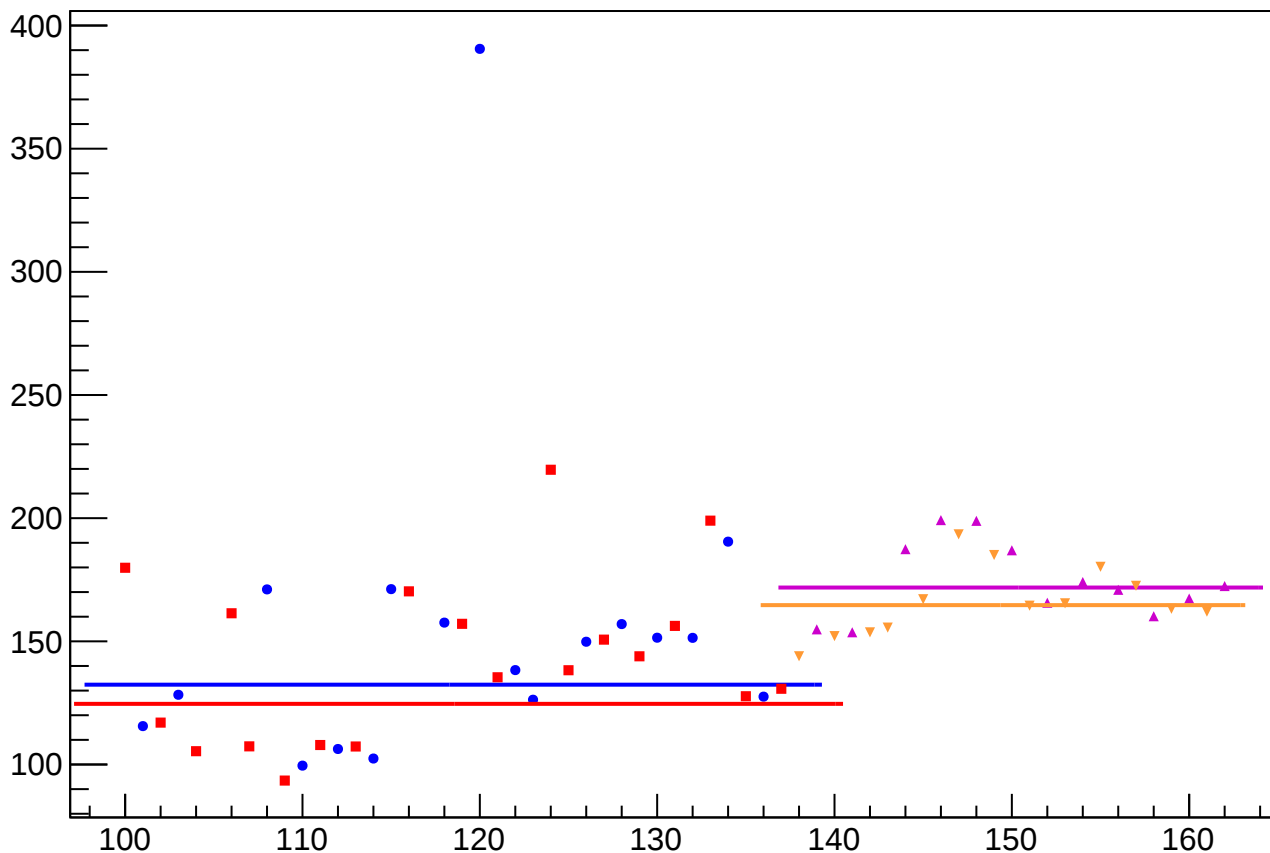
Right:  $14.613 \pm 35.370$   $\chi^2/\text{NDF}: 42.1/35$

In:  $160.170 \pm 38.021$   $\chi^2/\text{NDF}: 50.1/28$

Out:  $181.796 \pm 35.486$   $\chi^2/\text{NDF}: 54.9/31$

All:  $171.728 \pm 25.942$   $\chi^2/\text{NDF}: 105.2/60$

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 132.404 $\pm$ 0.037  $\chi^2$ /NDF: 643884.8/16

Left Out: 164.699 $\pm$ 0.037  $\chi^2$ /NDF: 120212.6/12

Right Out: 124.620 $\pm$ 0.034  $\chi^2$ /NDF: 592322.9/18

Left In: 171.837 $\pm$ 0.039  $\chi^2$ /NDF: 137771.6/11

Left: 168.120 $\pm$ 0.027  $\chi^2$ /NDF: 275447.8/24

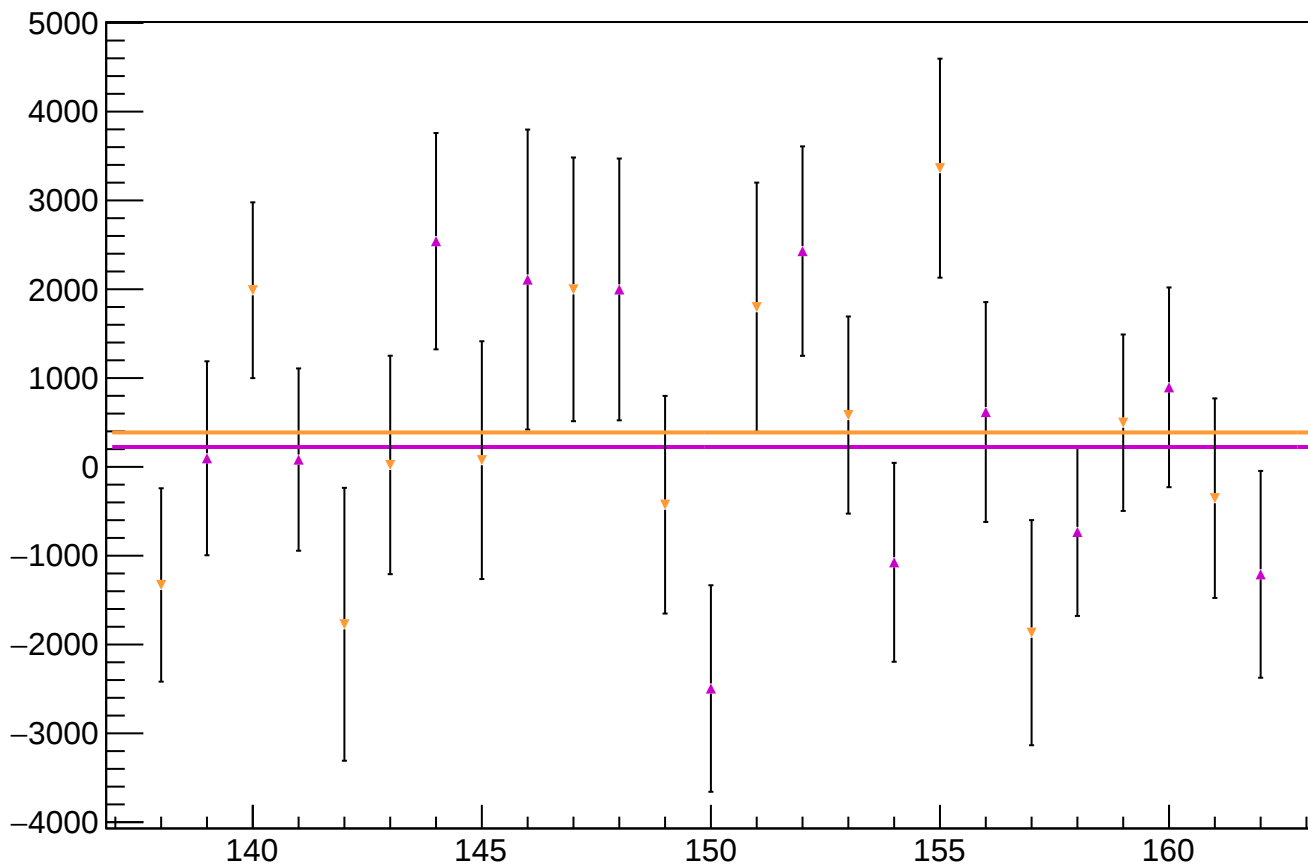
Right: 128.152 $\pm$ 0.025  $\chi^2$ /NDF: 1260220.4/35

In: 151.163 $\pm$ 0.027  $\chi^2$ /NDF: 1318201.4/28

Out: 142.660 $\pm$ 0.025  $\chi^2$ /NDF: 1343982.9/31

All: 146.618 $\pm$ 0.018  $\chi^2$ /NDF: 2715642.2/60

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 387.564+/-332.678  $\chi^2/\text{NDF}$ :19.3/12

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

Left In: 223.896+/-336.520  $\chi^2/\text{NDF}$ :19.7/11

Left: 306.670+/-236.586  $\chi^2/\text{NDF}$ : 39.1/24

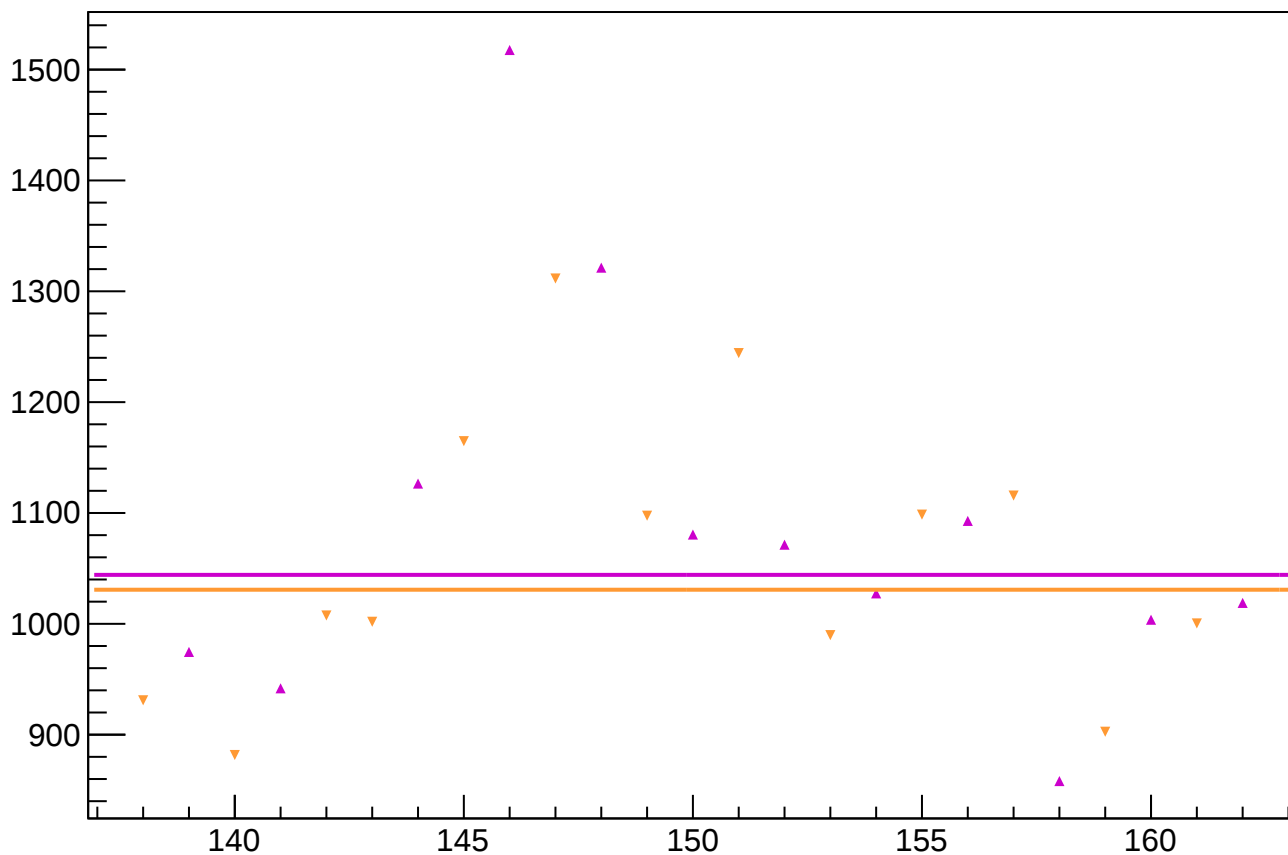
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 223.896+/-336.520  $\chi^2/\text{NDF}$ :19.7/11

Out: 387.564+/-332.678  $\chi^2/\text{NDF}$ :19.3/12

All: 306.670+/-236.586  $\chi^2/\text{NDF}$ : 39.1/24

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1030.773+/-0.235  $\chi^2/\text{NDF}$ :260149.8/12

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

Left In: 1044.169+/-0.238  $\chi^2/\text{NDF}$ :352625.8/11

Left: 1037.394+/-0.167  $\chi^2/\text{NDF}$ : 614378.6/24

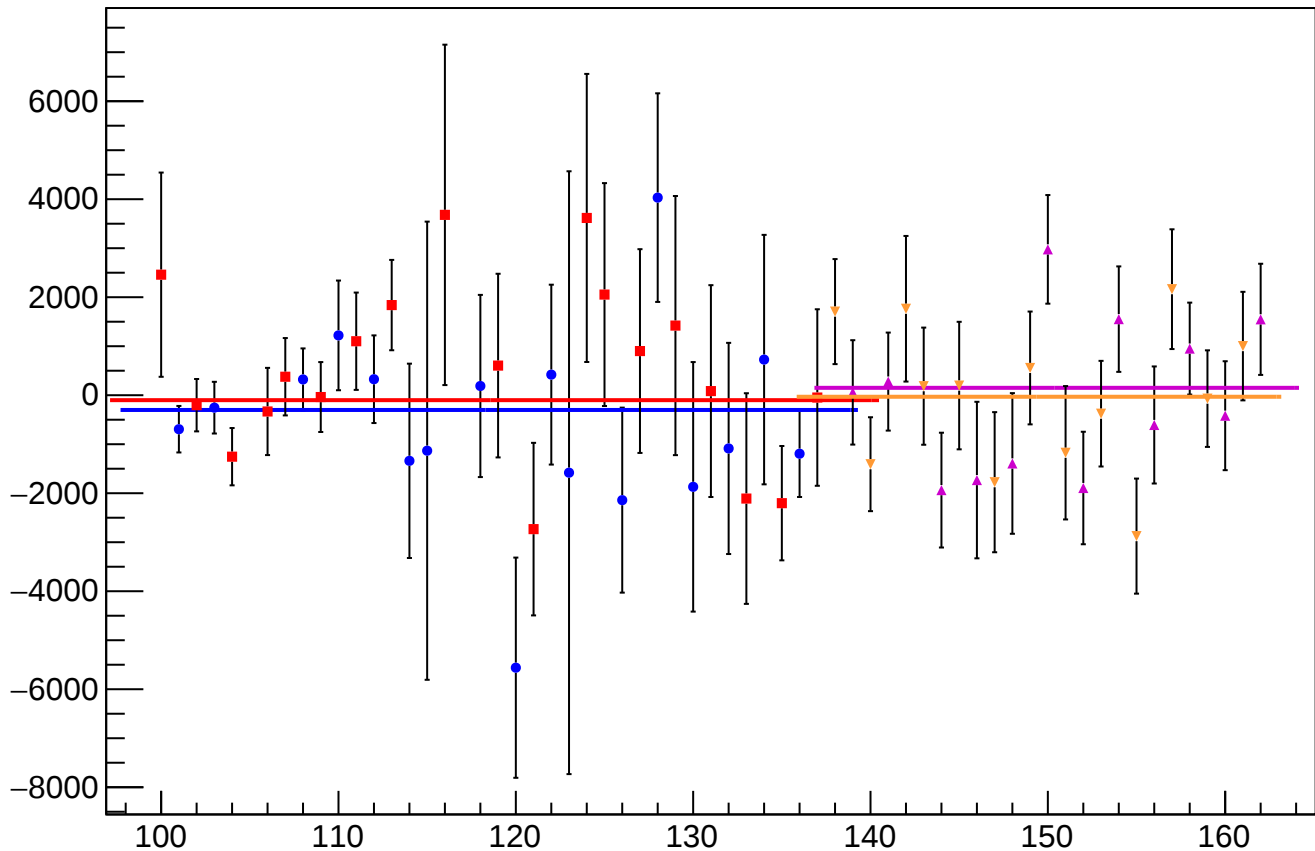
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1044.169+/-0.238  $\chi^2/\text{NDF}$ :352625.8/11

Out: 1030.773+/-0.235  $\chi^2/\text{NDF}$ :260149.8/12

All: 1037.394+/-0.167  $\chi^2/\text{NDF}$ : 614378.6/24

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-301.000 \pm 250.042$   $\chi^2/\text{NDF}$ : 16.8/16

Left Out:  $-31.408 \pm 322.960$   $\chi^2/\text{NDF}$ : 18.7/12

Right Out:  $-100.857 \pm 245.981$   $\chi^2/\text{NDF}$ : 22.5/18

Left In:  $150.848 \pm 327.080$   $\chi^2/\text{NDF}$ : 20.0/11

Left:  $58.565 \pm 229.810$   $\chi^2/\text{NDF}$ : 38.9/24

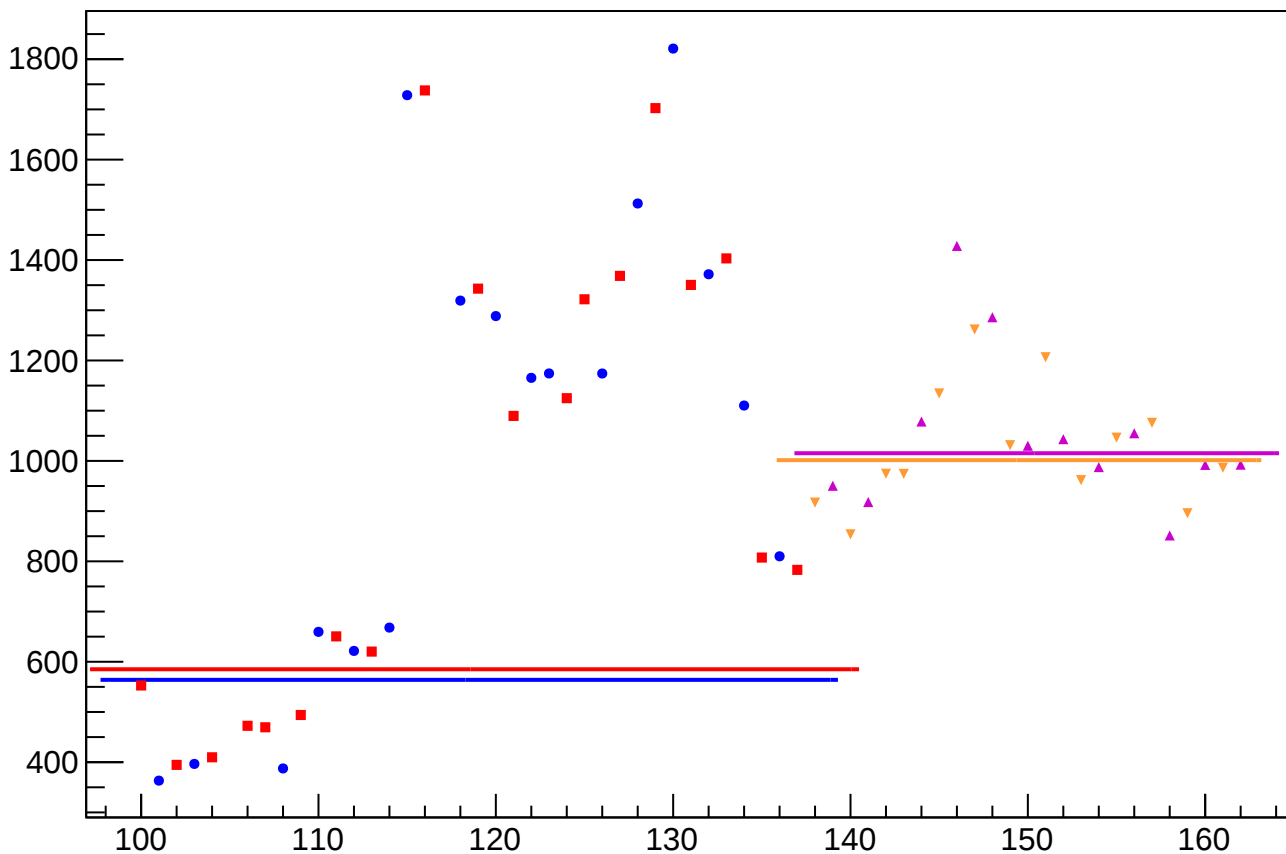
Right:  $-199.290 \pm 175.353$   $\chi^2/\text{NDF}$ : 39.7/35

In:  $-134.335 \pm 198.646$   $\chi^2/\text{NDF}$ : 38.1/28

Out:  $-75.360 \pm 195.686$   $\chi^2/\text{NDF}$ : 41.3/31

All:  $-104.405 \pm 139.405$   $\chi^2/\text{NDF}$ : 79.4/60

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 564.003 $\pm$ 0.177  $\chi^2$ /NDF: 3261491.3/16

Left Out: 1001.485 $\pm$ 0.228  $\chi^2$ /NDF: 231939.3/12

Right Out: 585.070 $\pm$ 0.174  $\chi^2$ /NDF: 2820837.8/18

Left In: 1015.308 $\pm$ 0.231  $\chi^2$ /NDF: 304646.1/11

Left: 1008.309 $\pm$ 0.163  $\chi^2$ /NDF: 538394.1/24

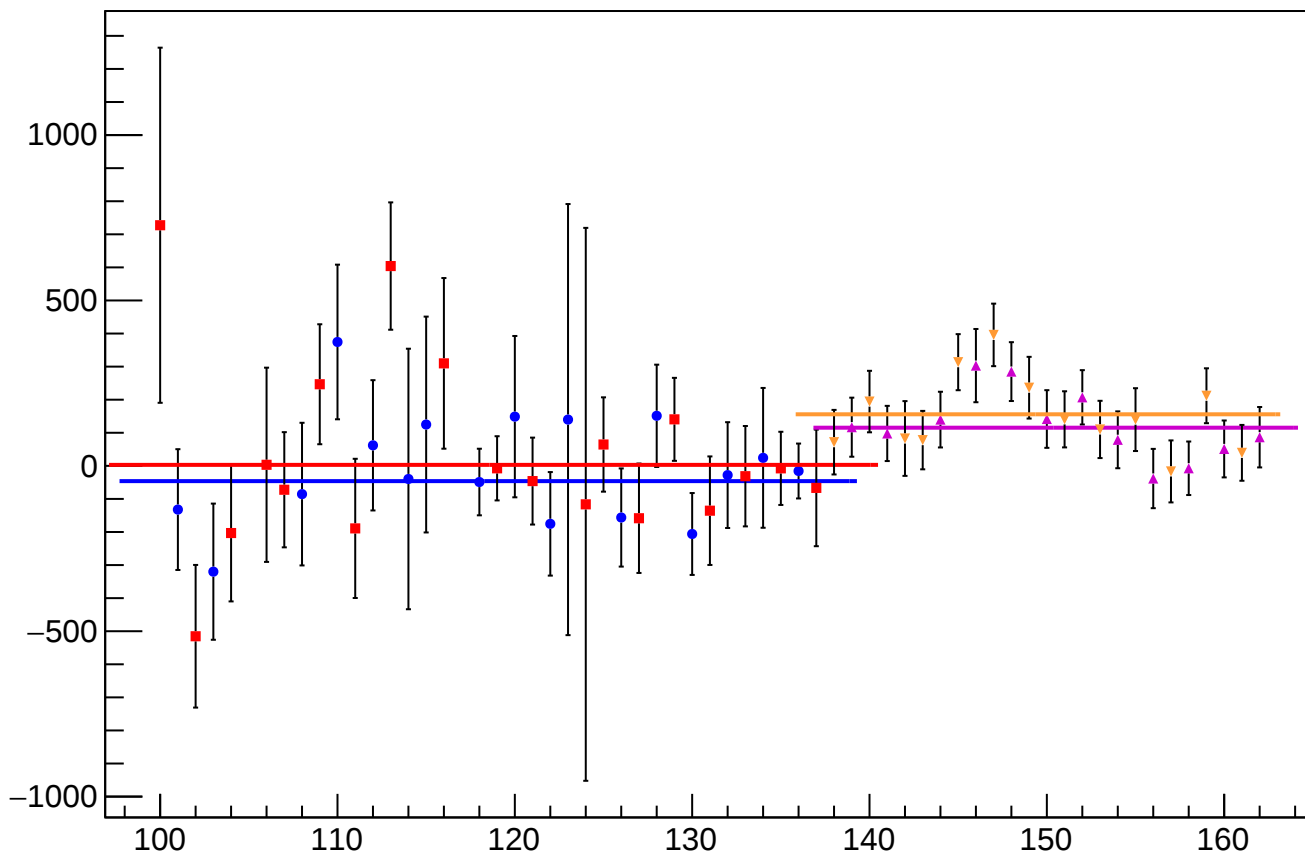
Right: 574.709 $\pm$ 0.124  $\chi^2$ /NDF: 6089543.5/35

In: 730.468 $\pm$ 0.140  $\chi^2$ /NDF: 5969359.0/28

Out: 737.948 $\pm$ 0.138  $\chi^2$ /NDF: 5157037.6/31

All: 734.264 $\pm$ 0.099  $\chi^2$ /NDF: 11127835.8/60

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $-46.211 \pm 39.137$   $\chi^2/\text{NDF}: 11.3/16$

Left Out:  $155.854 \pm 25.191$   $\chi^2/\text{NDF}: 18.9/12$

Right Out:  $2.942 \pm 37.872$   $\chi^2/\text{NDF}: 26.0/18$

Left In:  $115.319 \pm 25.274$   $\chi^2/\text{NDF}: 14.1/11$

Left:  $135.653 \pm 17.842$   $\chi^2/\text{NDF}: 34.2/24$

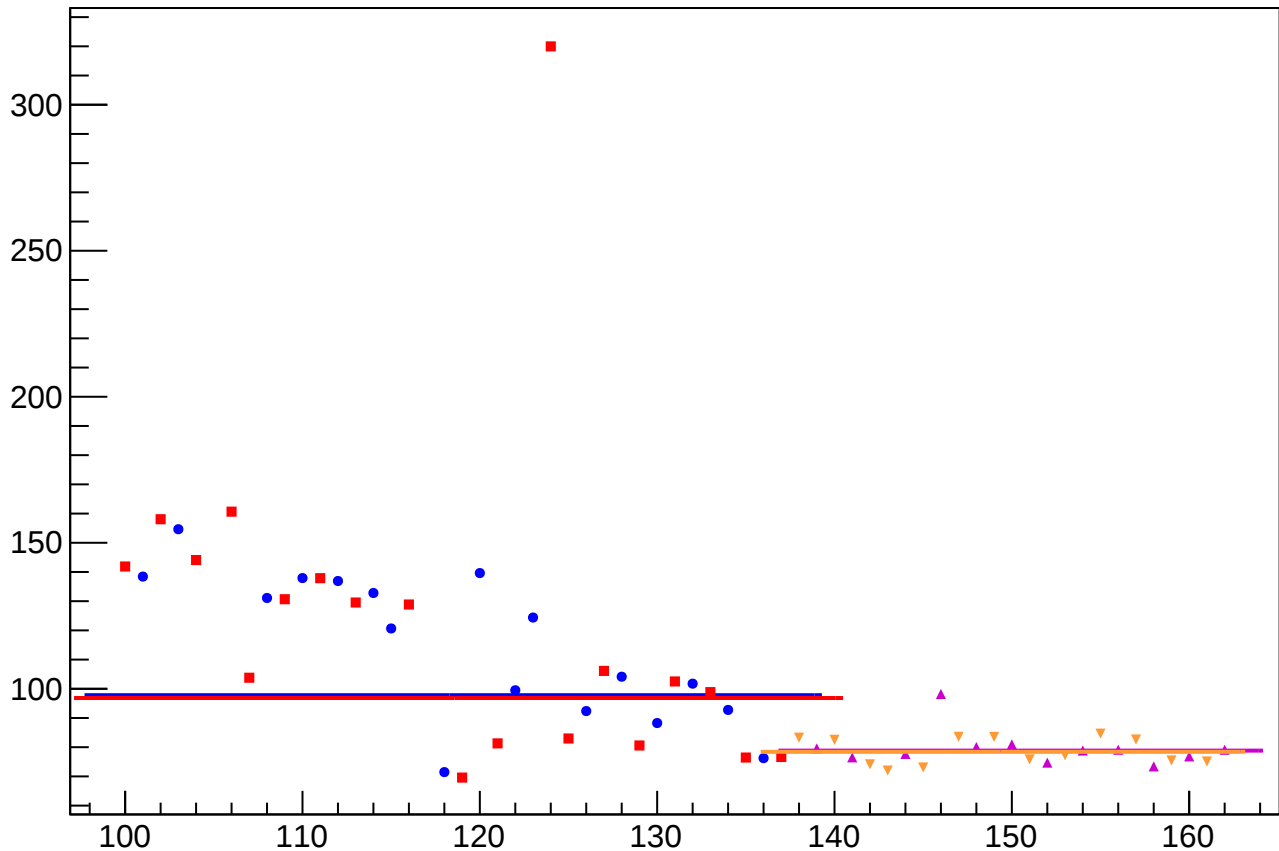
Right:  $-20.827 \pm 27.216$   $\chi^2/\text{NDF}: 38.2/35$

In:  $67.781 \pm 21.232$   $\chi^2/\text{NDF}: 37.4/28$

Out:  $108.952 \pm 20.975$   $\chi^2/\text{NDF}: 56.2/31$

All:  $88.617 \pm 14.921$   $\chi^2/\text{NDF}: 95.5/60$

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 97.807 $\pm$ 0.028  $\chi^2$ /NDF: 816964.4/16

Left Out: 78.423 $\pm$ 0.018  $\chi^2$ /NDF: 62579.0/12

Right Out: 96.842 $\pm$ 0.027  $\chi^2$ /NDF: 1095471.1/18

Left In: 78.829 $\pm$ 0.018  $\chi^2$ /NDF: 80027.5/11

Left: 78.626 $\pm$ 0.013  $\chi^2$ /NDF: 142865.1/24

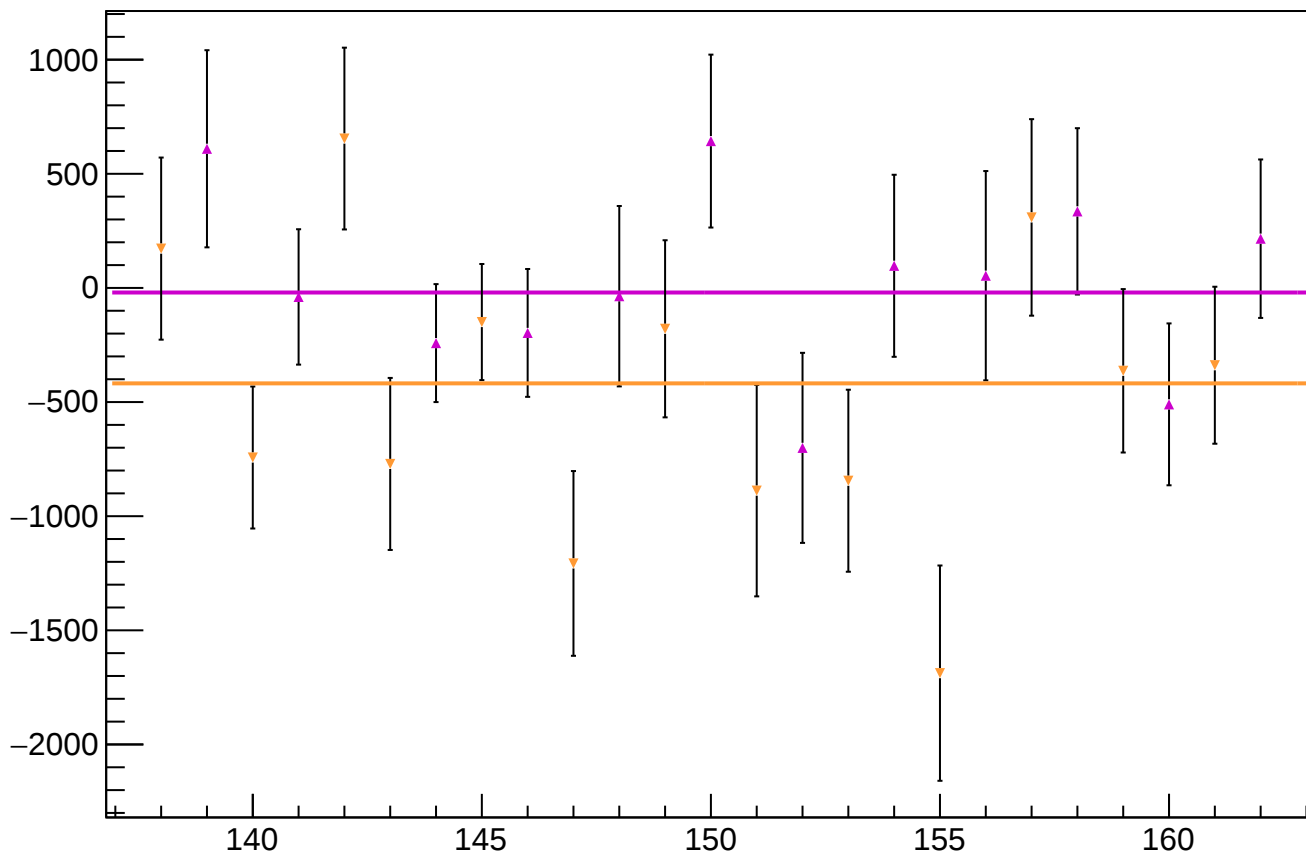
Right: 97.309 $\pm$ 0.019  $\chi^2$ /NDF: 1913063.7/35

In: 84.414 $\pm$ 0.015  $\chi^2$ /NDF: 1228868.5/28

Out: 84.073 $\pm$ 0.015  $\chi^2$ /NDF: 1485994.5/31

All: 84.241 $\pm$ 0.011  $\chi^2$ /NDF: 2715124.9/60

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



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

Left Out:  $-418.107 \pm 102.446$   $\chi^2/\text{NDF}: 29.1/12$

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

Left In:  $-20.059 \pm 100.792$   $\chi^2/\text{NDF}: 12.4/11$

Left:  $-215.843 \pm 71.848$   $\chi^2/\text{NDF}: 49.2/24$

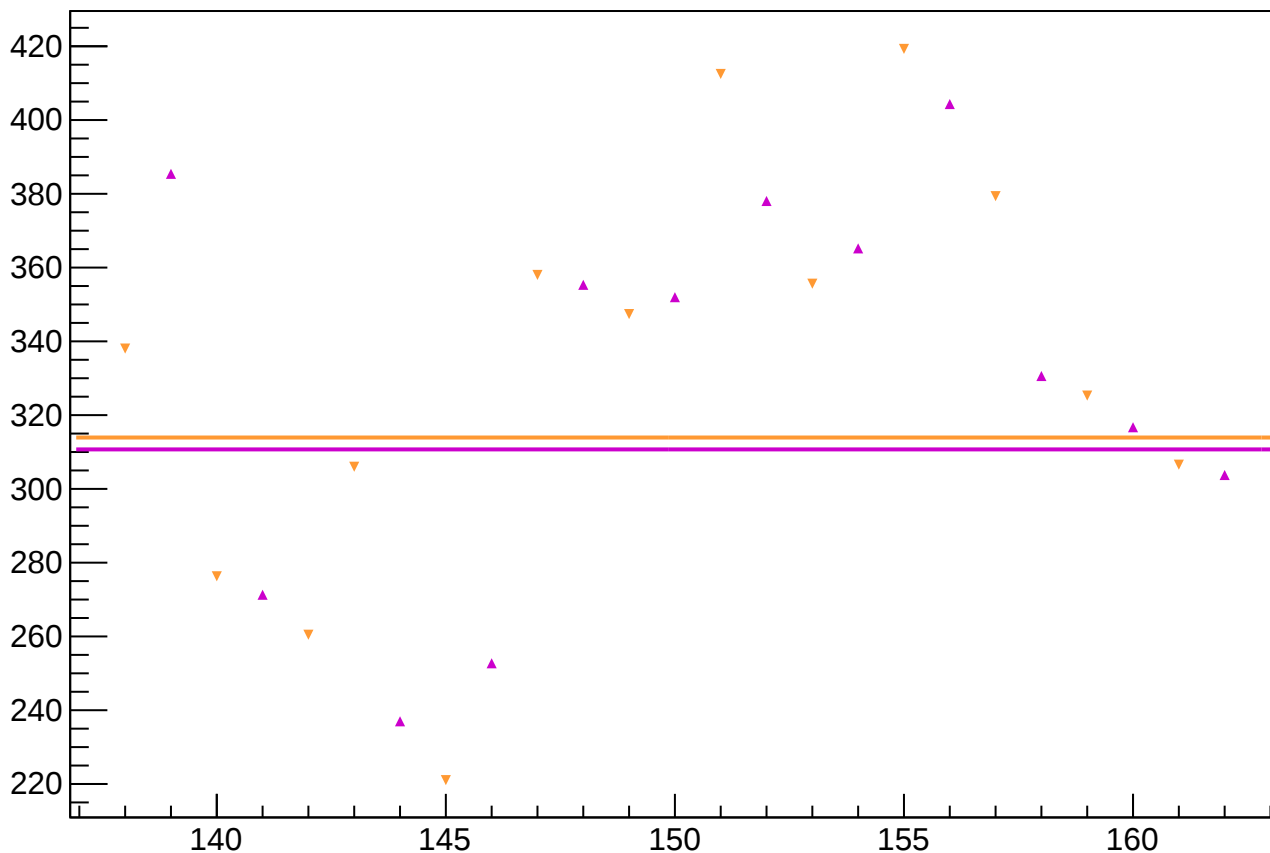
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-20.059 \pm 100.792$   $\chi^2/\text{NDF}: 12.4/11$

Out:  $-418.107 \pm 102.446$   $\chi^2/\text{NDF}: 29.1/12$

All:  $-215.843 \pm 71.848$   $\chi^2/\text{NDF}: 49.2/24$

# asym\_sam7\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 313.930+/-0.072  $\chi^2/\text{NDF}$ :640277.1/12

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

Left In: 310.706+/-0.071  $\chi^2/\text{NDF}$ :573325.1/11

Left: 312.292+/-0.051  $\chi^2/\text{NDF}$ : 1214608.8/24

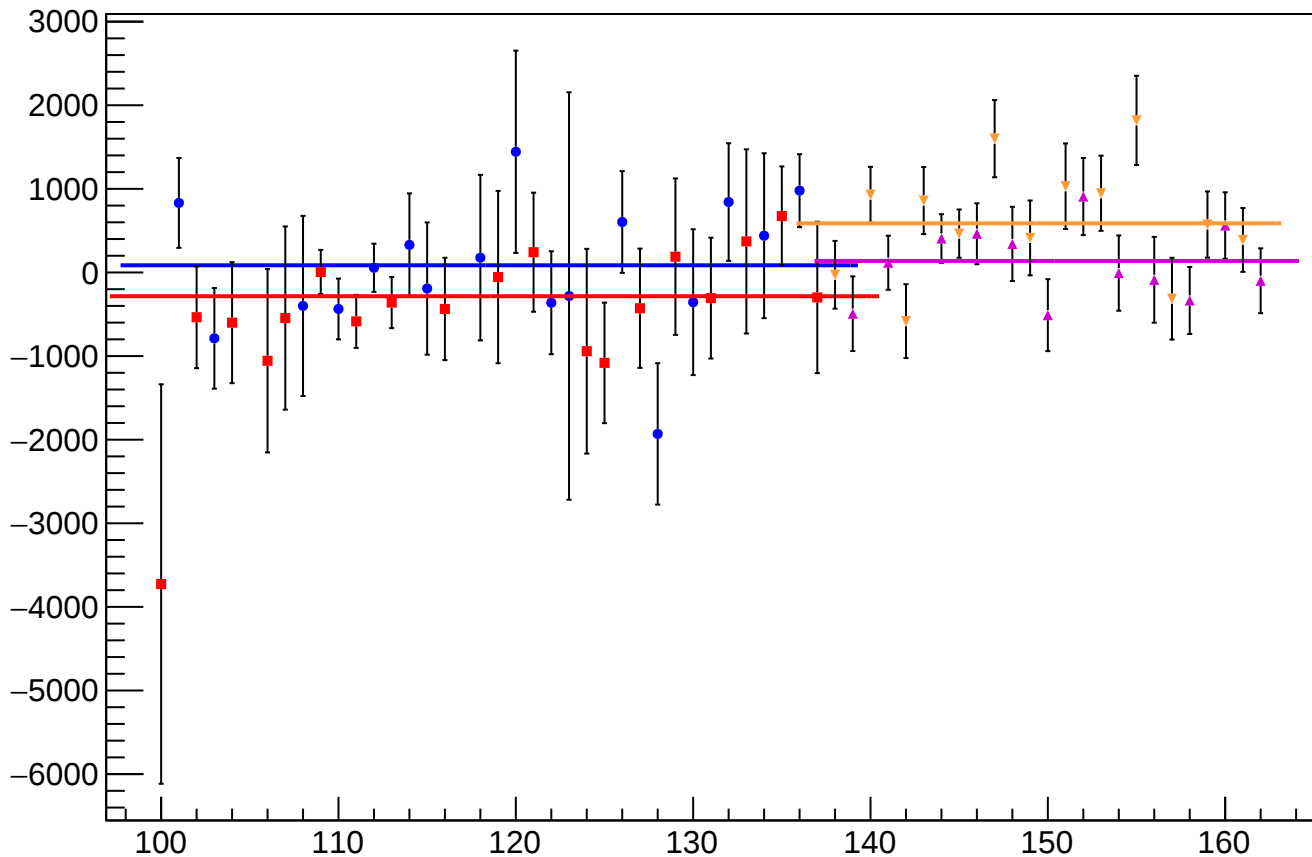
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 310.706+/-0.071  $\chi^2/\text{NDF}$ :573325.1/11

Out: 313.930+/-0.072  $\chi^2/\text{NDF}$ :640277.1/12

All: 312.292+/-0.051  $\chi^2/\text{NDF}$ : 1214608.8/24

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 85.810 $\pm$ 142.601  $\chi^2/\text{NDF}$ : 20.6/16

Left Out: 587.937 $\pm$ 113.315  $\chi^2/\text{NDF}$ : 26.4/12

Right Out: -284.456 $\pm$ 129.599  $\chi^2/\text{NDF}$ : 10.6/18

Left In: 137.975 $\pm$ 113.936  $\chi^2/\text{NDF}$ : 12.1/11

Left: 364.186 $\pm$ 80.344  $\chi^2/\text{NDF}$ : 46.3/24

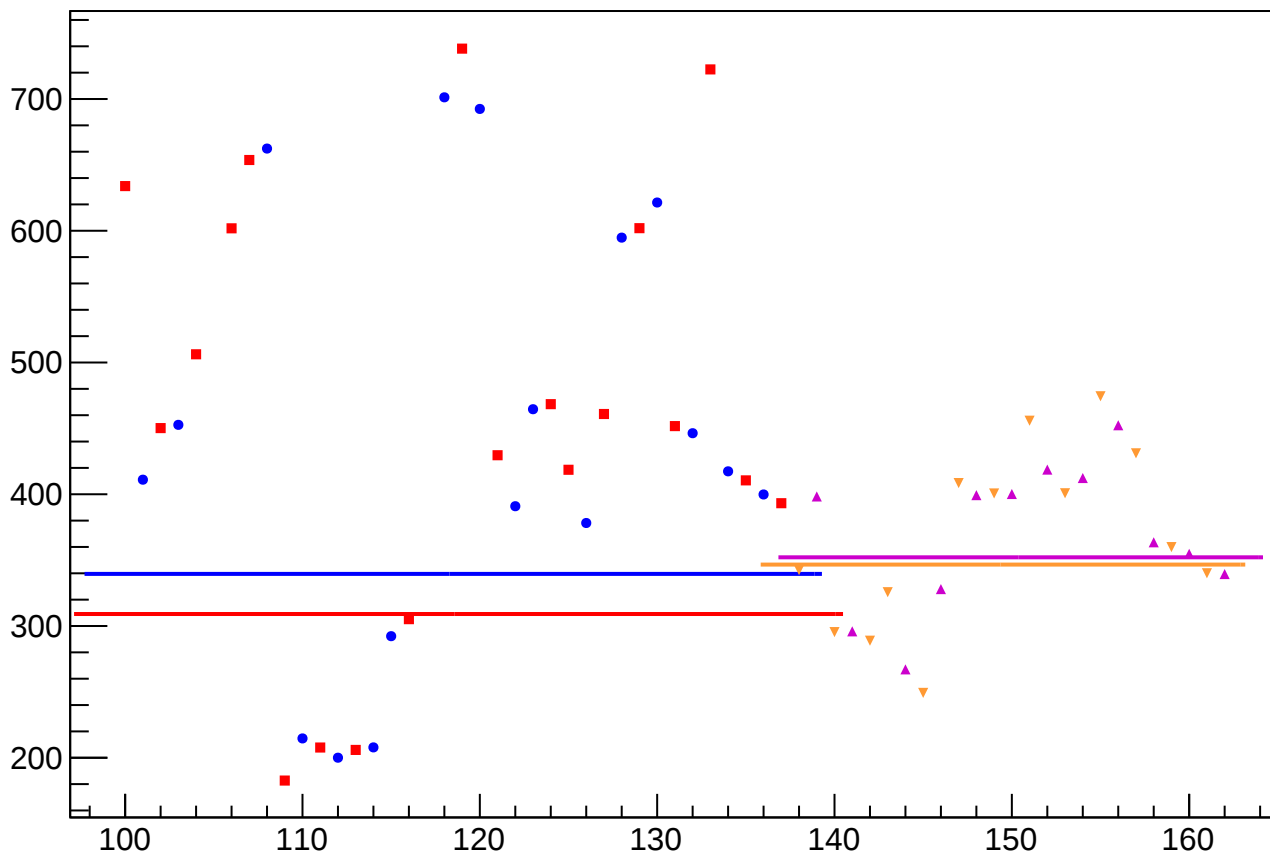
Right: -116.969 $\pm$ 95.908  $\chi^2/\text{NDF}$ : 34.9/35

In: 117.649 $\pm$ 89.013  $\chi^2/\text{NDF}$ : 32.8/28

Out: 209.962 $\pm$ 85.306  $\chi^2/\text{NDF}$ : 62.7/31

All: 165.768 $\pm$ 61.589  $\chi^2/\text{NDF}$ : 96.0/60

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 339.553 $\pm$ 0.101  $\chi^2$ /NDF: 2042244.1/16

Left Out: 346.618 $\pm$ 0.080  $\chi^2$ /NDF: 677725.0/12

Right Out: 309.105 $\pm$ 0.092  $\chi^2$ /NDF: 2730308.7/18

Left In: 352.135 $\pm$ 0.081  $\chi^2$ /NDF: 466812.0/11

Left: 349.361 $\pm$ 0.057  $\chi^2$ /NDF: 1146894.5/24

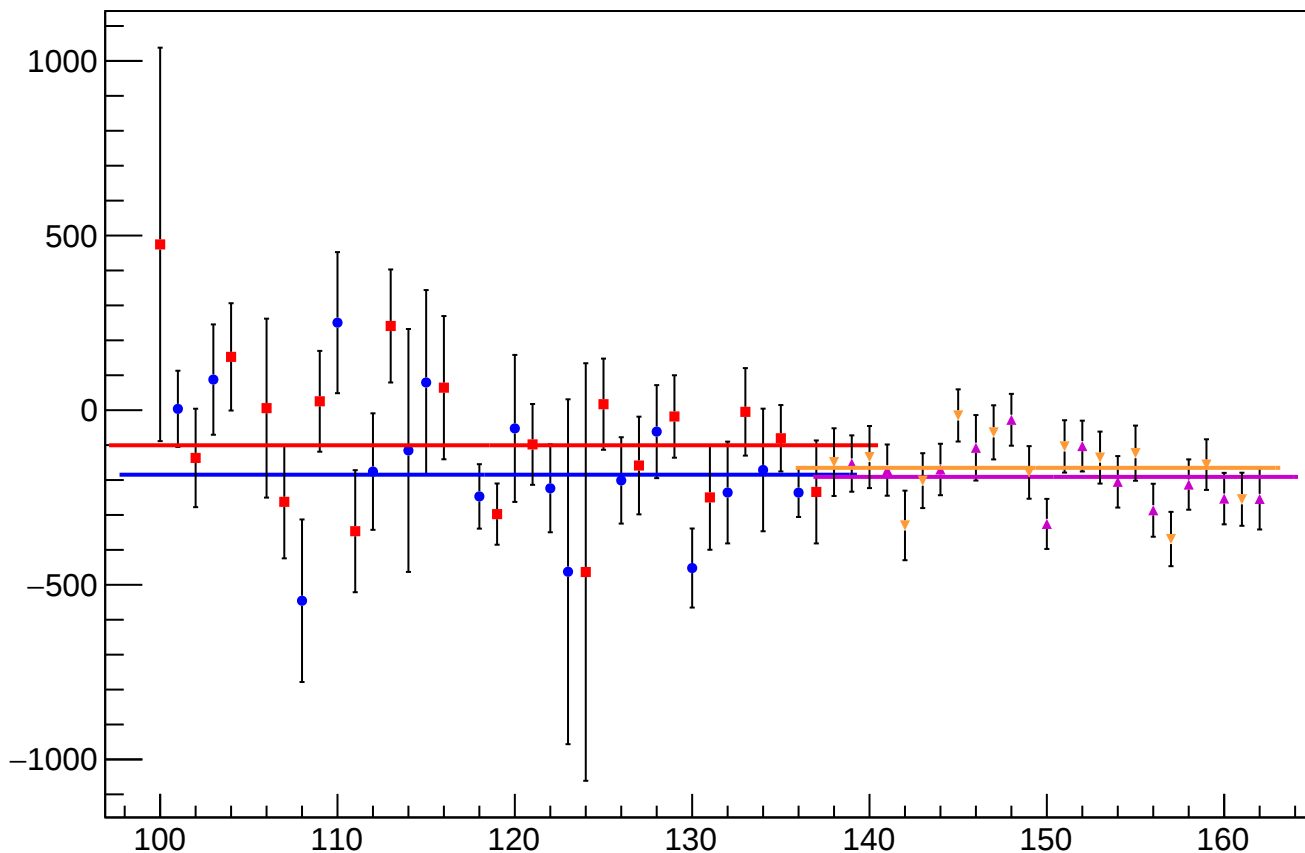
Right: 322.878 $\pm$ 0.068  $\chi^2$ /NDF: 4822487.1/35

In: 347.232 $\pm$ 0.063  $\chi^2$ /NDF: 2518559.8/28

Out: 330.365 $\pm$ 0.060  $\chi^2$ /NDF: 3503000.3/31

All: 338.440 $\pm$ 0.044  $\chi^2$ /NDF: 6058994.2/60

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-184.736 \pm 33.009$   $\chi^2/\text{NDF}: 22.4/16$

Left Out:  $-165.090 \pm 22.002$   $\chi^2/\text{NDF}: 18.3/12$

Right Out:  $-100.491 \pm 32.512$   $\chi^2/\text{NDF}: 22.2/18$

Left In:  $-191.015 \pm 21.990$   $\chi^2/\text{NDF}: 14.0/11$

Left:  $-178.060 \pm 15.553$   $\chi^2/\text{NDF}: 33.0/24$

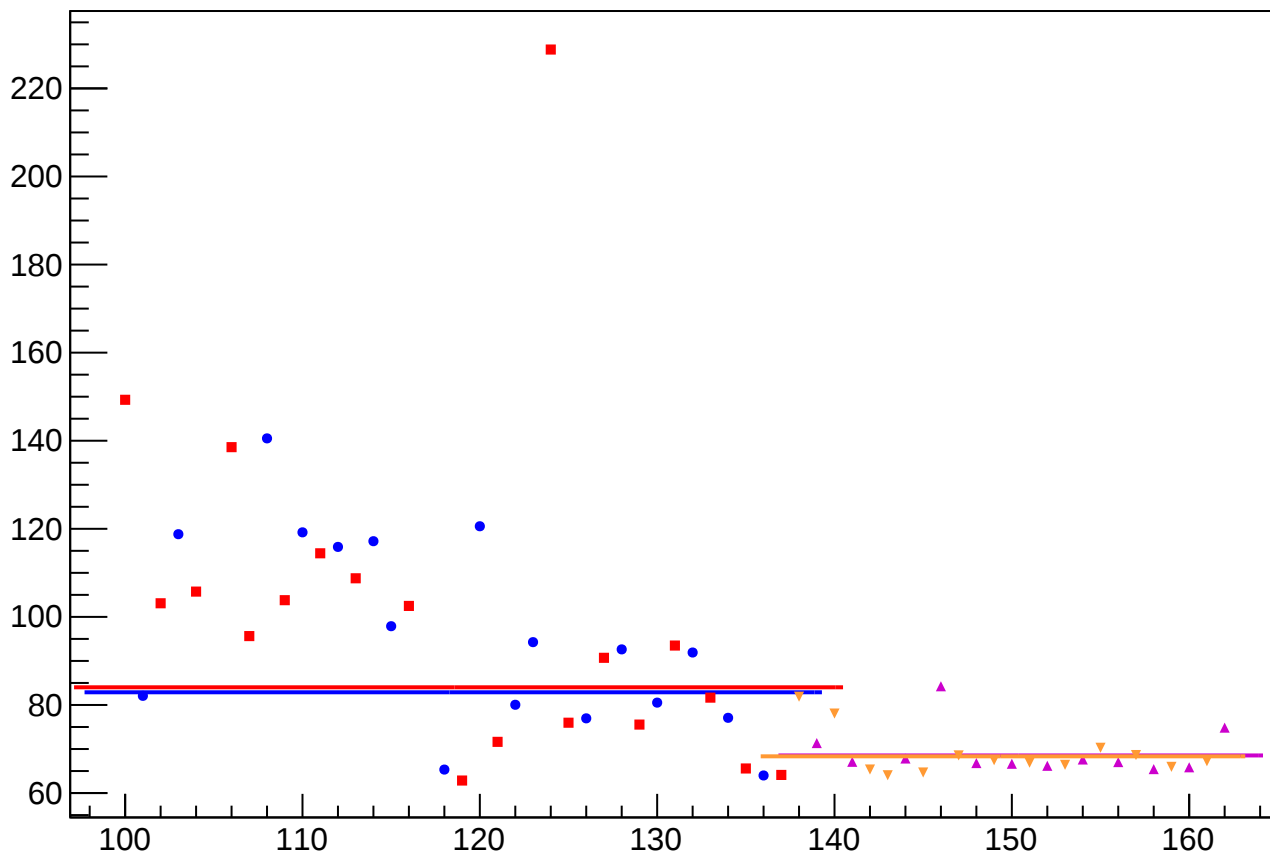
Right:  $-141.974 \pm 23.163$   $\chi^2/\text{NDF}: 47.9/35$

In:  $-189.085 \pm 18.301$   $\chi^2/\text{NDF}: 36.4/28$

Out:  $-144.799 \pm 18.221$   $\chi^2/\text{NDF}: 43.2/31$

All:  $-166.846 \pm 12.913$   $\chi^2/\text{NDF}: 82.5/60$

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 82.880 $\pm$ 0.023  $\chi^2$ /NDF: 706417.7/16

Left Out: 68.339 $\pm$ 0.016  $\chi^2$ /NDF:81750.5/12

Right Out: 84.013 $\pm$ 0.023  $\chi^2$ /NDF: 765400.6/18

Left In: 68.540 $\pm$ 0.016  $\chi^2$ /NDF:81989.9/11

Left: 68.440 $\pm$ 0.011  $\chi^2$ /NDF: 163823.4/24

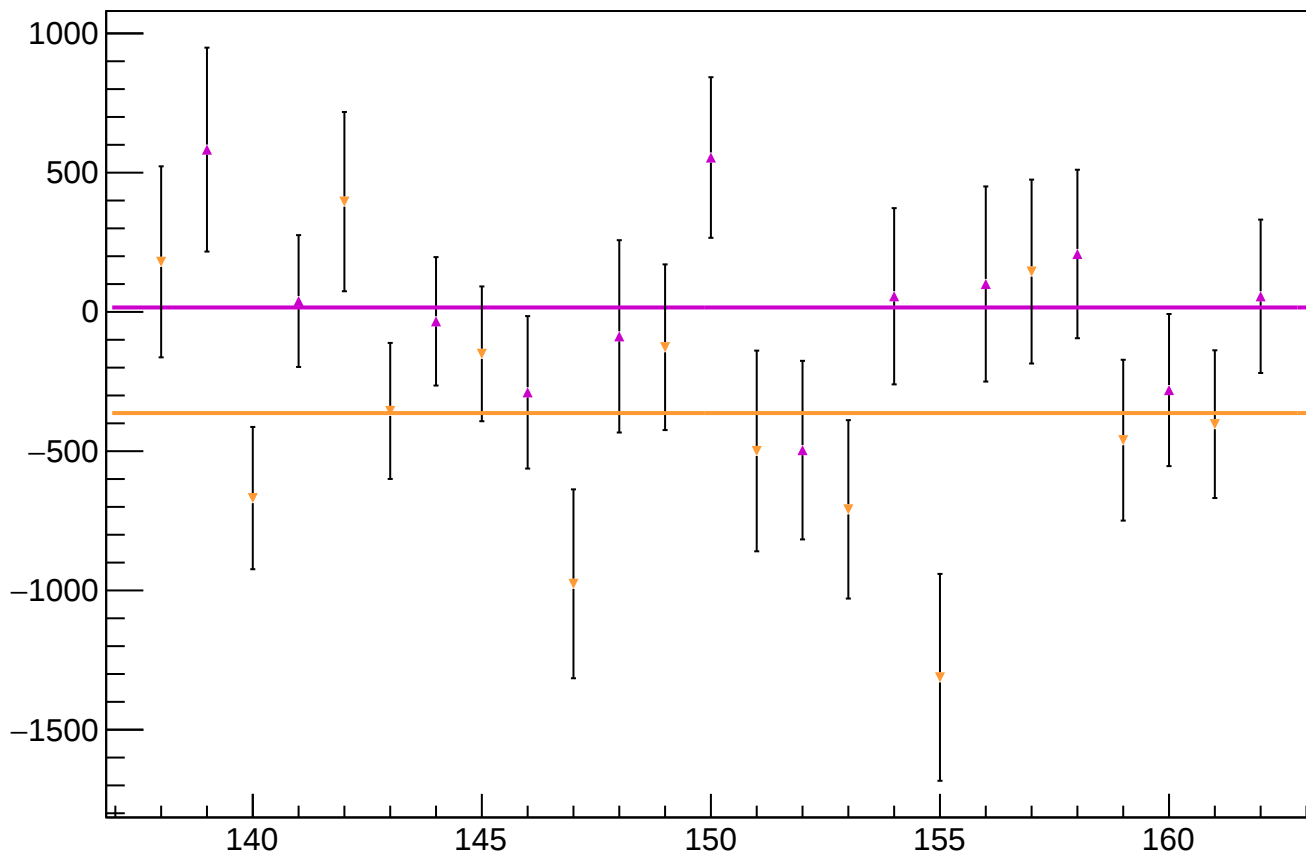
Right: 83.455 $\pm$ 0.016  $\chi^2$ /NDF: 1473013.4/35

In: 72.948 $\pm$ 0.013  $\chi^2$ /NDF:1049861.2/28

Out: 73.263 $\pm$ 0.013  $\chi^2$ /NDF:1165972.5/31

All: 73.106 $\pm$ 0.009  $\chi^2$ /NDF: 2216130.9/60

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -363.156+/-82.363  $\chi^2/\text{NDF}$ :24.5/12

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

Left In: 16.011+/-83.540  $\chi^2/\text{NDF}$ :11.5/11

Left: -176.262+/-58.651  $\chi^2/\text{NDF}$ : 46.5/24

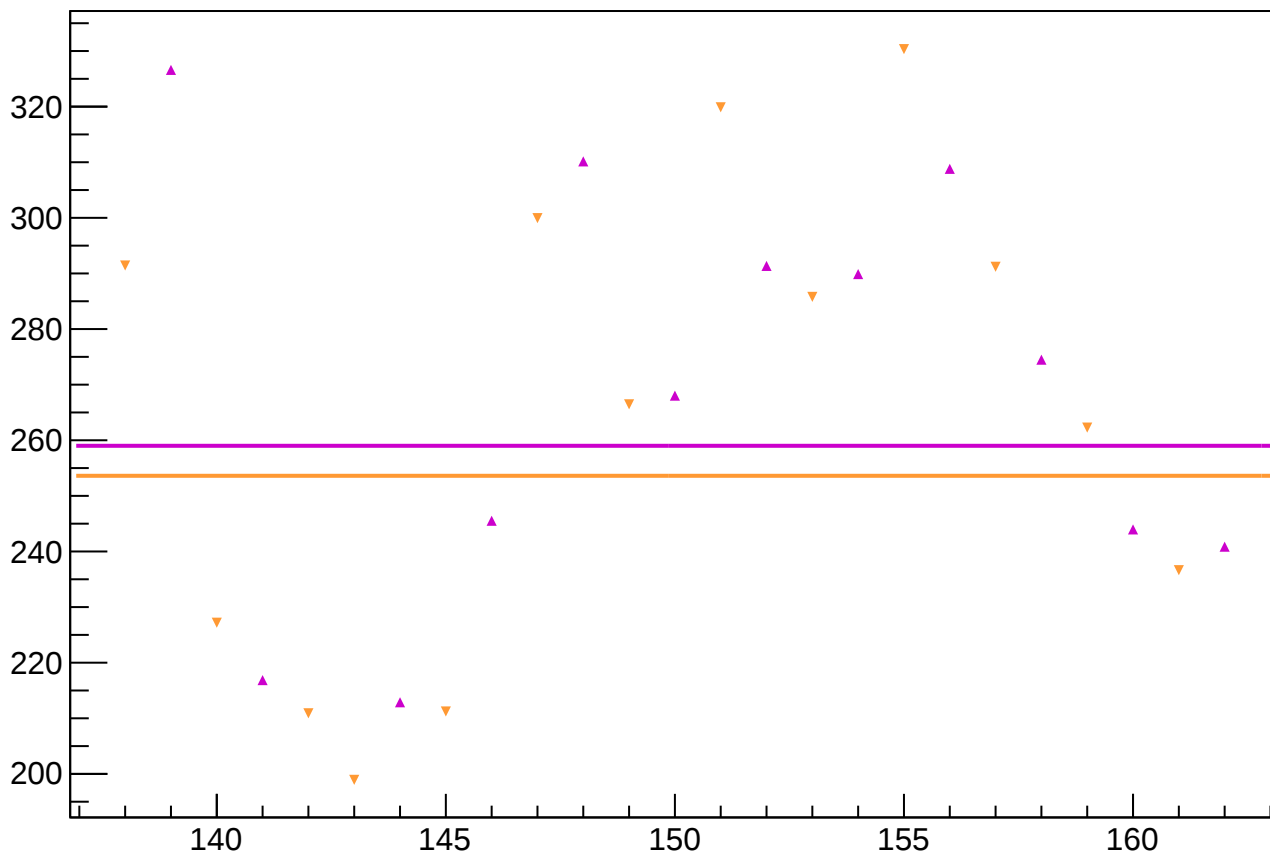
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.011+/-83.540  $\chi^2/\text{NDF}$ :11.5/11

Out: -363.156+/-82.363  $\chi^2/\text{NDF}$ :24.5/12

All: -176.262+/-58.651  $\chi^2/\text{NDF}$ : 46.5/24

# asym\_sam8\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 253.611+/-0.058  $\chi^2/\text{NDF}$ :492762.9/12

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

Left In: 259.006+/-0.059  $\chi^2/\text{NDF}$ :362177.7/11

Left: 256.270+/-0.041  $\chi^2/\text{NDF}$ : 859170.4/24

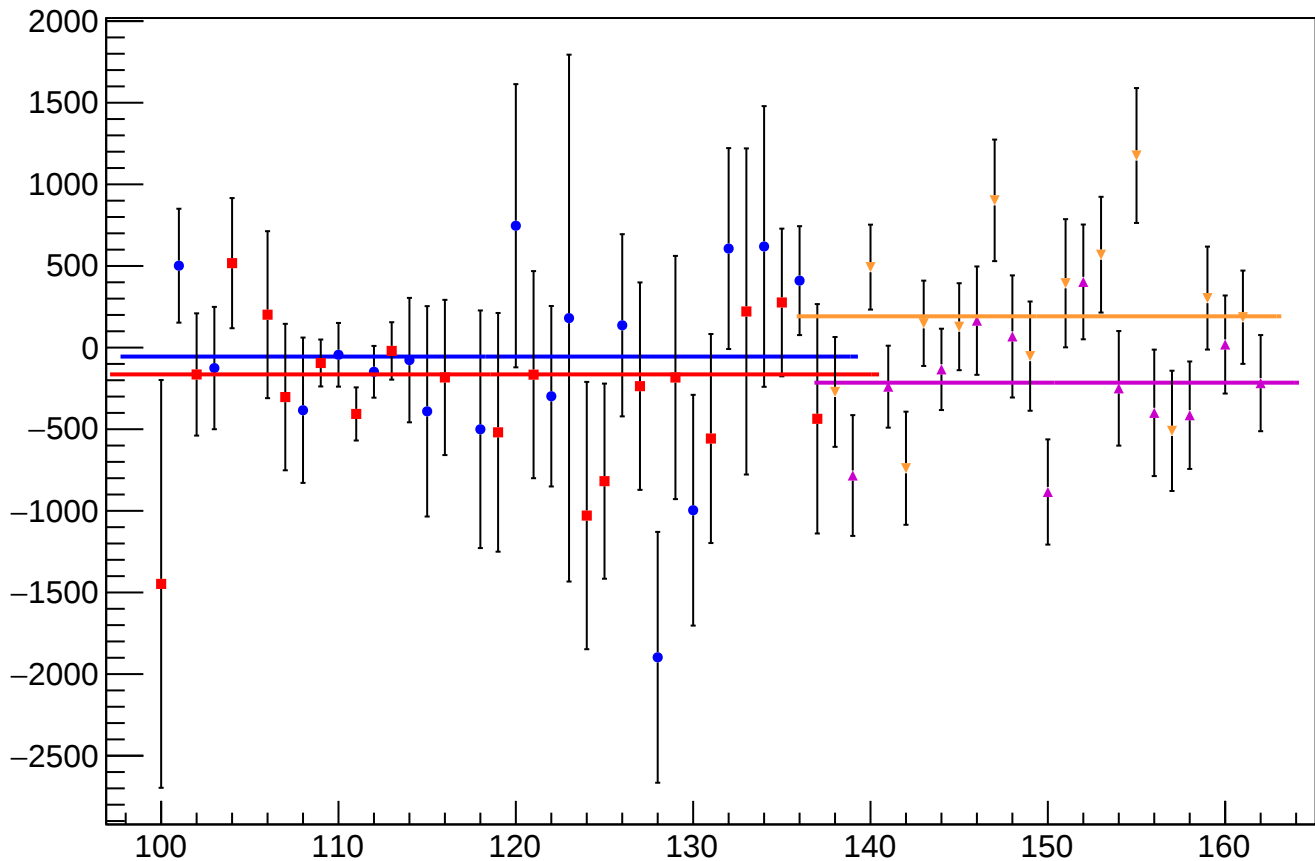
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 259.006+/-0.059  $\chi^2/\text{NDF}$ :362177.7/11

Out: 253.611+/-0.058  $\chi^2/\text{NDF}$ :492762.9/12

All: 256.270+/-0.041  $\chi^2/\text{NDF}$ : 859170.4/24

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-54.933 \pm 90.355$   $\chi^2/\text{NDF}$ : 16.5/16

Left Out:  $191.672 \pm 88.802$   $\chi^2/\text{NDF}$ : 25.5/12

Right Out:  $-164.141 \pm 76.903$   $\chi^2/\text{NDF}$ : 11.9/18

Left In:  $-214.893 \pm 91.333$   $\chi^2/\text{NDF}$ : 13.0/11

Left:  $-5.900 \pm 63.668$   $\chi^2/\text{NDF}$ : 48.7/24

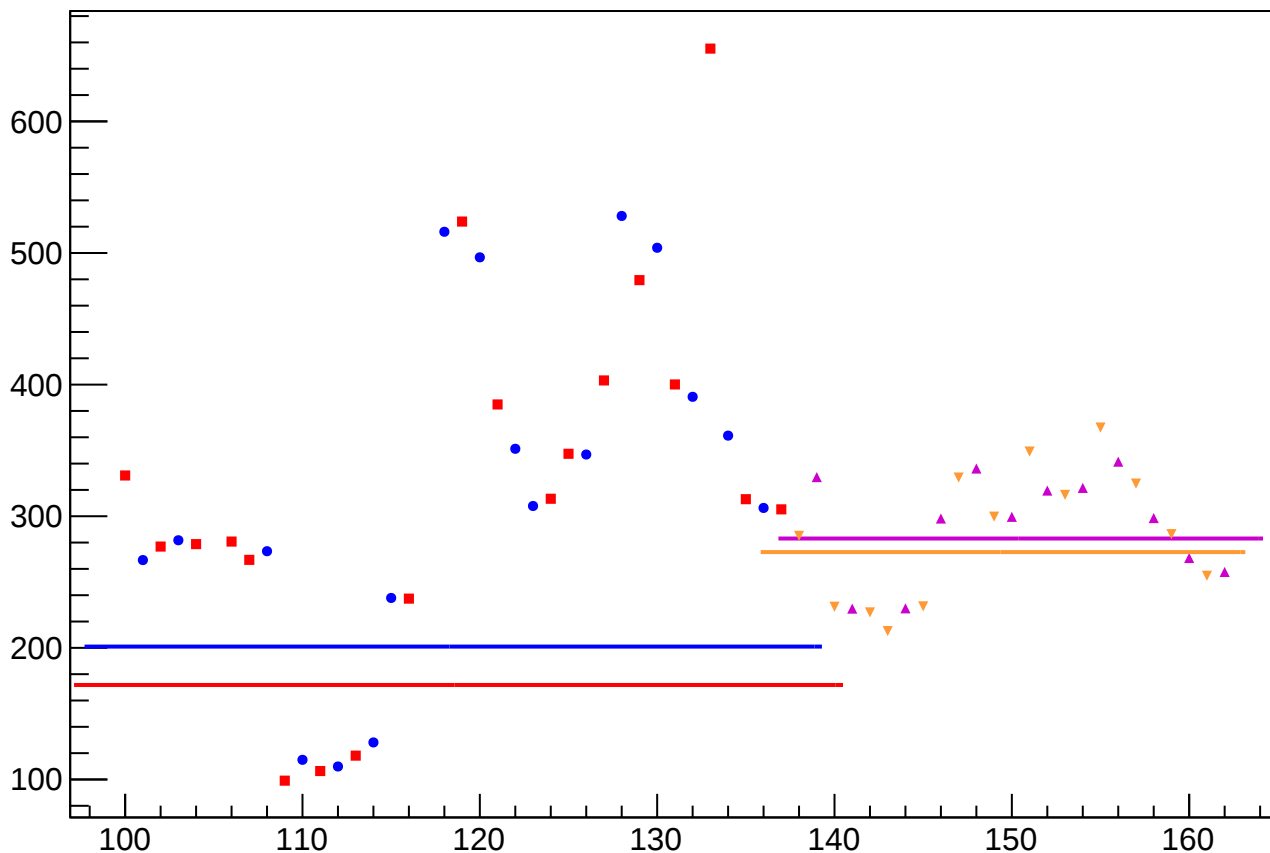
Right:  $-118.264 \pm 58.563$   $\chi^2/\text{NDF}$ : 29.3/35

In:  $-134.052 \pm 64.234$   $\chi^2/\text{NDF}$ : 31.1/28

Out:  $-11.654 \pm 58.134$   $\chi^2/\text{NDF}$ : 46.6/31

All:  $-66.767 \pm 43.102$   $\chi^2/\text{NDF}$ : 79.7/60

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 200.971+/-0.064  $\chi^2/\text{NDF}$ : 3436154.0/16

Left Out: 272.760+/-0.063  $\chi^2/\text{NDF}$ : 563635.4/12

Right Out: 171.794+/-0.054  $\chi^2/\text{NDF}$ : 4092634.7/18

Left In: 283.075+/-0.065  $\chi^2/\text{NDF}$ : 377552.6/11

Left: 277.773+/-0.045  $\chi^2/\text{NDF}$ : 954301.1/24

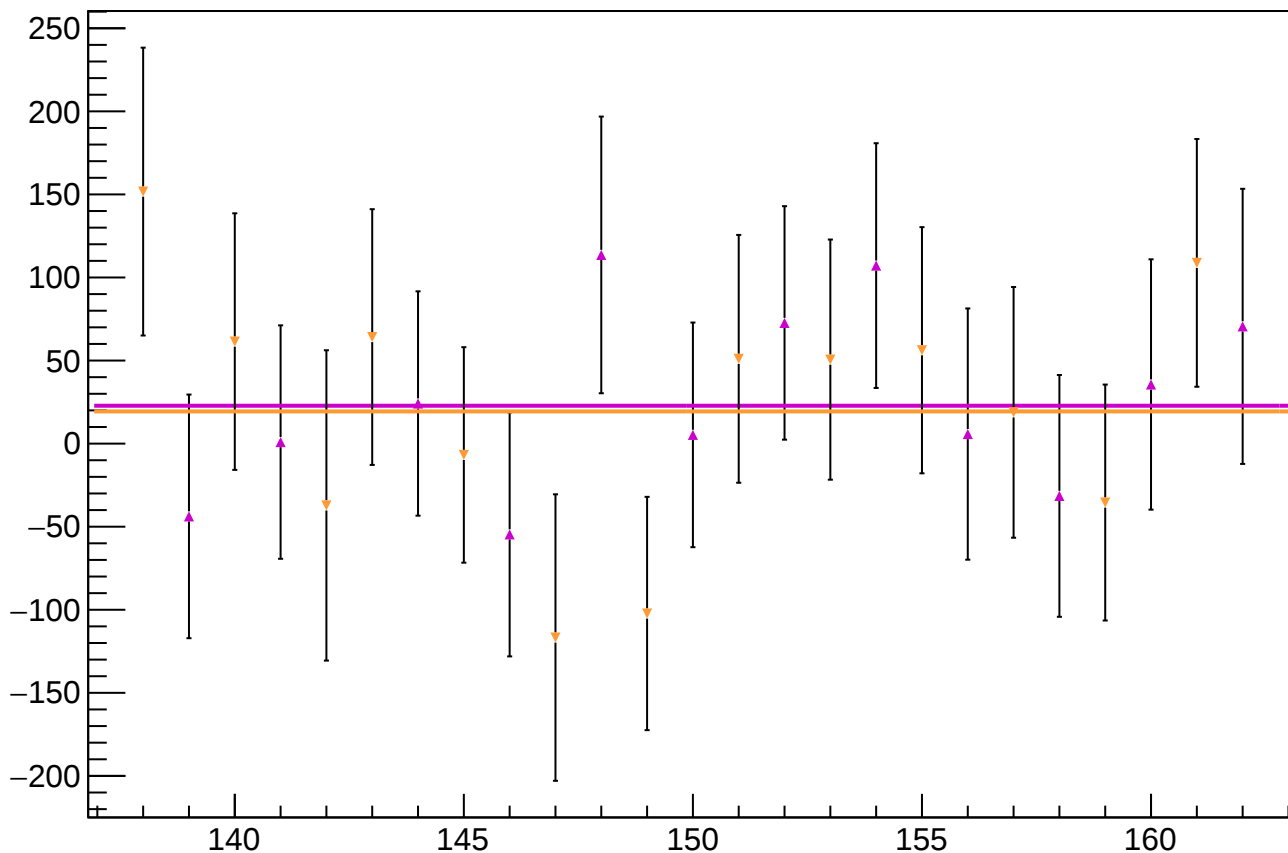
Right: 184.051+/-0.041  $\chi^2/\text{NDF}$ : 7649725.9/35

In: 241.581+/-0.045  $\chi^2/\text{NDF}$ : 4630528.8/28

Out: 215.064+/-0.041  $\chi^2/\text{NDF}$ : 6133699.3/31

All: 227.004+/-0.030  $\chi^2/\text{NDF}$ : 10951600.7/60

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 19.393+/-21.004  $\chi^2/\text{NDF}$ :11.6/12

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

Left In: 22.813+/-21.181  $\chi^2/\text{NDF}$ :6.1/11

Left: 21.089+/-14.914  $\chi^2/\text{NDF}$ : 17.7/24

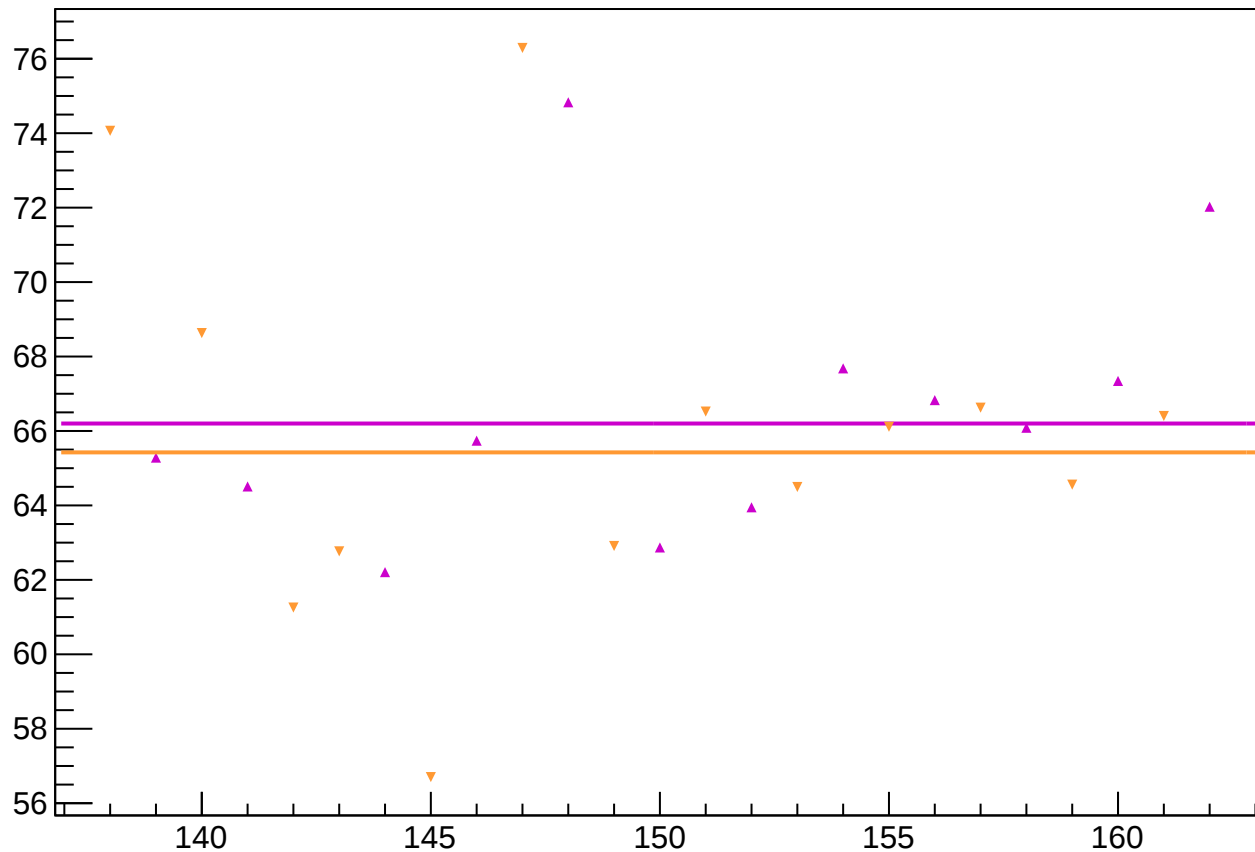
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 22.813+/-21.181  $\chi^2/\text{NDF}$ :6.1/11

Out: 19.393+/-21.004  $\chi^2/\text{NDF}$ :11.6/12

All: 21.089+/-14.914  $\chi^2/\text{NDF}$ : 17.7/24

dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 65.425+/-0.015  $\chi^2/\text{NDF}$ :102300.9/12

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

Left In: 66.200+/-0.015  $\chi^2/\text{NDF}$ :48242.4/11

Left: 65.809+/-0.011  $\chi^2/\text{NDF}$ : 151894.4/24

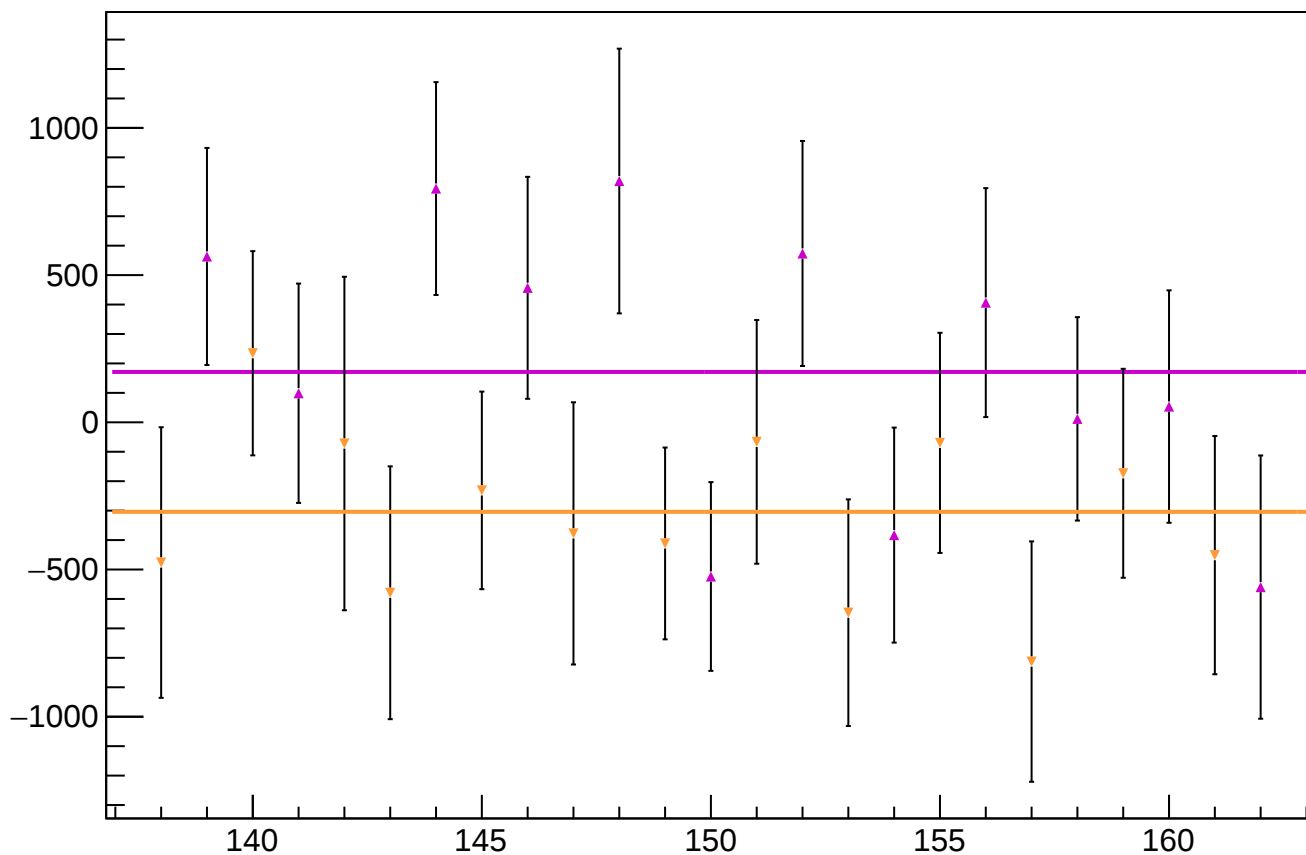
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 66.200+/-0.015  $\chi^2/\text{NDF}$ :48242.4/11

Out: 65.425+/-0.015  $\chi^2/\text{NDF}$ :102300.9/12

All: 65.809+/-0.011  $\chi^2/\text{NDF}$ : 151894.4/24

asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -304.067+/-108.640  $\chi^2/\text{NDF}$ : 6.6/12

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

Left In: 171.075+/-108.663  $\chi^2/\text{NDF}$ : 18.2/11

Left: -66.547+/-76.828  $\chi^2/\text{NDF}$ : 34.5/24

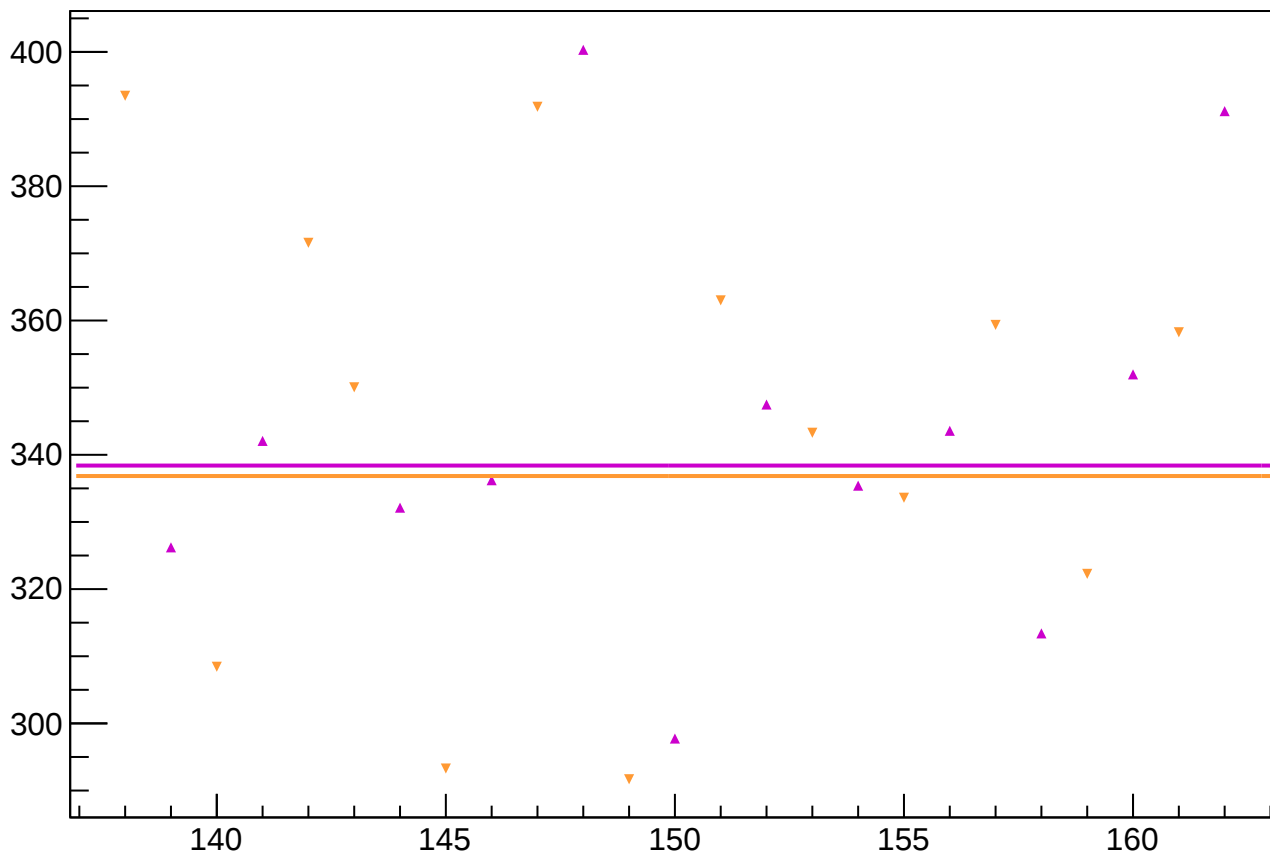
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 171.075+/-108.663  $\chi^2/\text{NDF}$ : 18.2/11

Out: -304.067+/-108.640  $\chi^2/\text{NDF}$ : 6.6/12

All: -66.547+/-76.828  $\chi^2/\text{NDF}$ : 34.5/24

asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 336.840+/-0.077  $\chi^2/\text{NDF}$ :179582.8/12

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

Left In: 338.399+/-0.077  $\chi^2/\text{NDF}$ :115484.1/11

Left: 337.619+/-0.054  $\chi^2/\text{NDF}$ : 295272.6/24

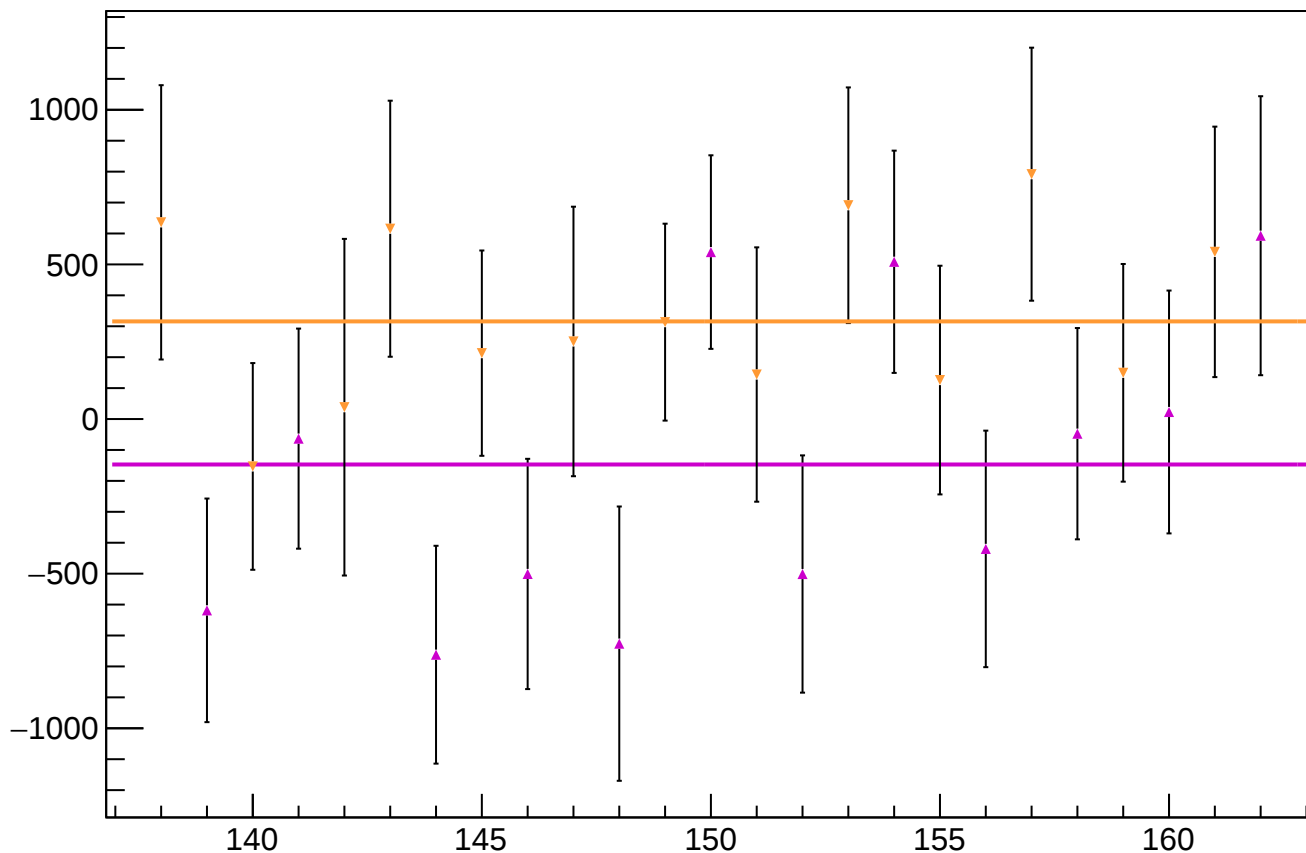
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 338.399+/-0.077  $\chi^2/\text{NDF}$ :115484.1/11

Out: 336.840+/-0.077  $\chi^2/\text{NDF}$ :179582.8/12

All: 337.619+/-0.054  $\chi^2/\text{NDF}$ : 295272.6/24

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 315.737 $\pm$ 106.775  $\chi^2$ /NDF:6.7/12

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

Left In: -146.986 $\pm$ 106.929  $\chi^2$ /NDF:19.9/11

Left: 84.708 $\pm$ 75.556  $\chi^2$ /NDF: 35.9/24

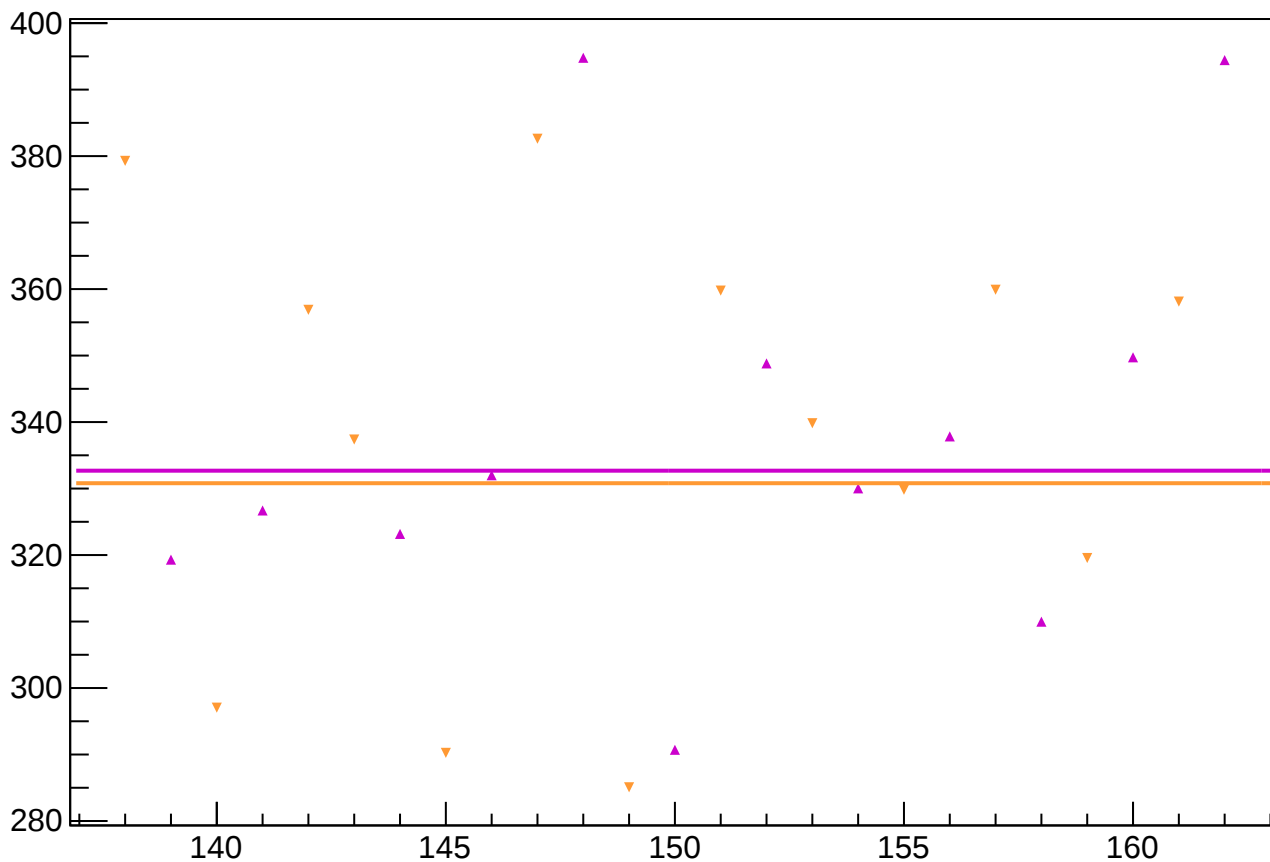
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -146.986 $\pm$ 106.929  $\chi^2$ /NDF:19.9/11

Out: 315.737 $\pm$ 106.775  $\chi^2$ /NDF:6.7/12

All: 84.708 $\pm$ 75.556  $\chi^2$ /NDF: 35.9/24

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 330.804+/-0.076  $\chi^2/\text{NDF}$ :181093.3/12

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

Left In: 332.688+/-0.076  $\chi^2/\text{NDF}$ :134062.0/11

Left: 331.745+/-0.053  $\chi^2/\text{NDF}$ : 315466.2/24

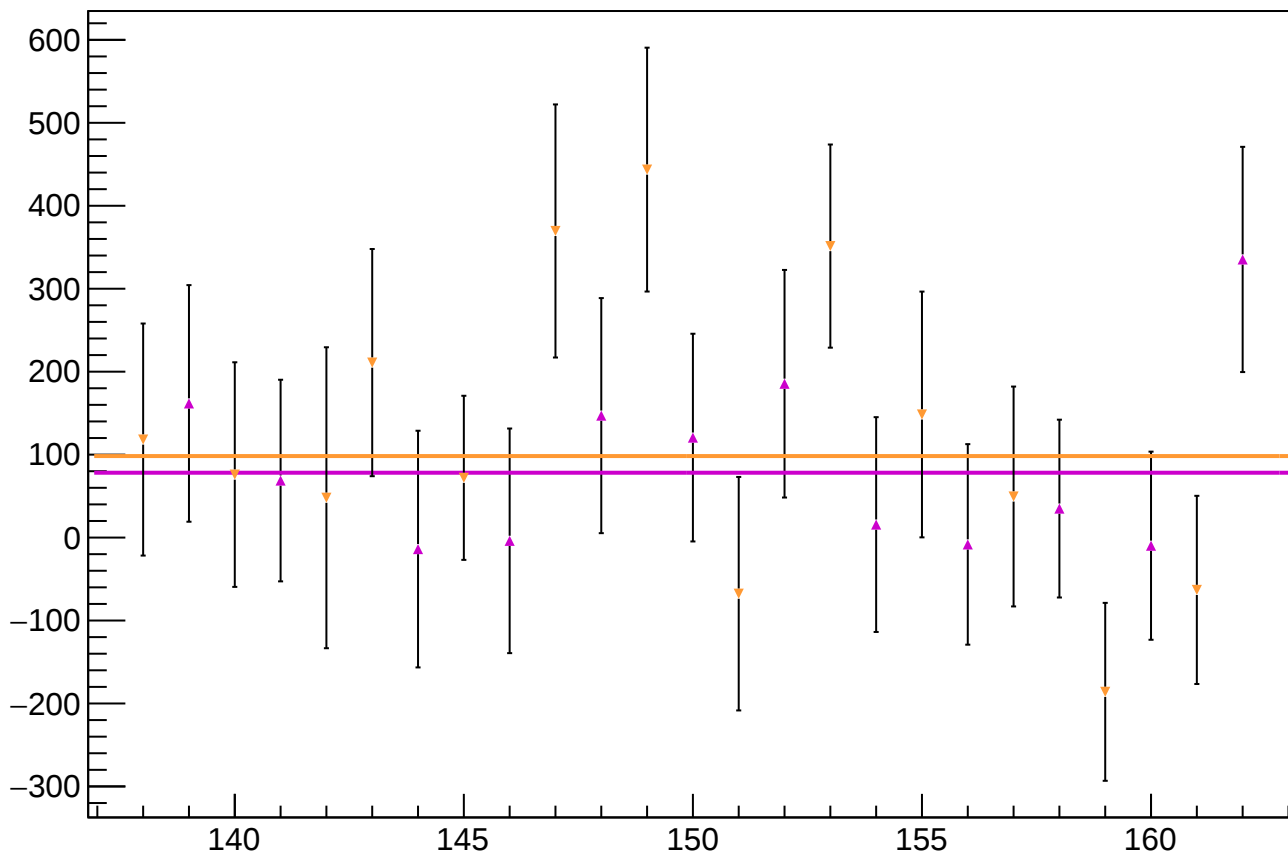
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 332.688+/-0.076  $\chi^2/\text{NDF}$ :134062.0/11

Out: 330.804+/-0.076  $\chi^2/\text{NDF}$ :181093.3/12

All: 331.745+/-0.053  $\chi^2/\text{NDF}$ : 315466.2/24

dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 98.266 $\pm$ 36.151  $\chi^2$ /NDF:24.5/12

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

Left In: 78.174 $\pm$ 36.899  $\chi^2$ /NDF:7.2/11

Left: 88.426 $\pm$ 25.823  $\chi^2$ /NDF: 31.9/24

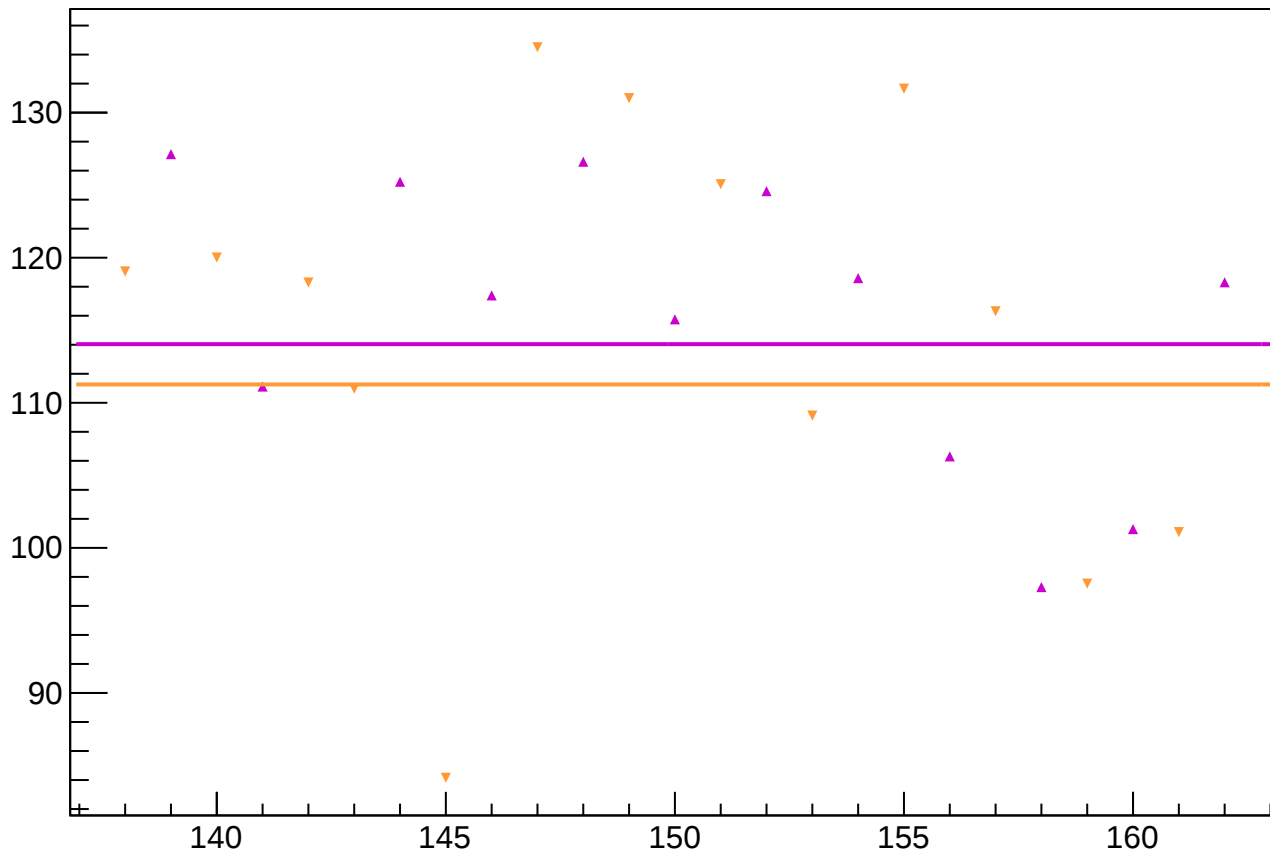
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 78.174 $\pm$ 36.899  $\chi^2$ /NDF:7.2/11

Out: 98.266 $\pm$ 36.151  $\chi^2$ /NDF:24.5/12

All: 88.426 $\pm$ 25.823  $\chi^2$ /NDF: 31.9/24

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 111.264+/-0.026  $\chi^2/\text{NDF}$ :359760.6/12

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

Left In: 114.041+/-0.026  $\chi^2/\text{NDF}$ :146233.1/11

Left: 112.624+/-0.018  $\chi^2/\text{NDF}$ : 511774.5/24

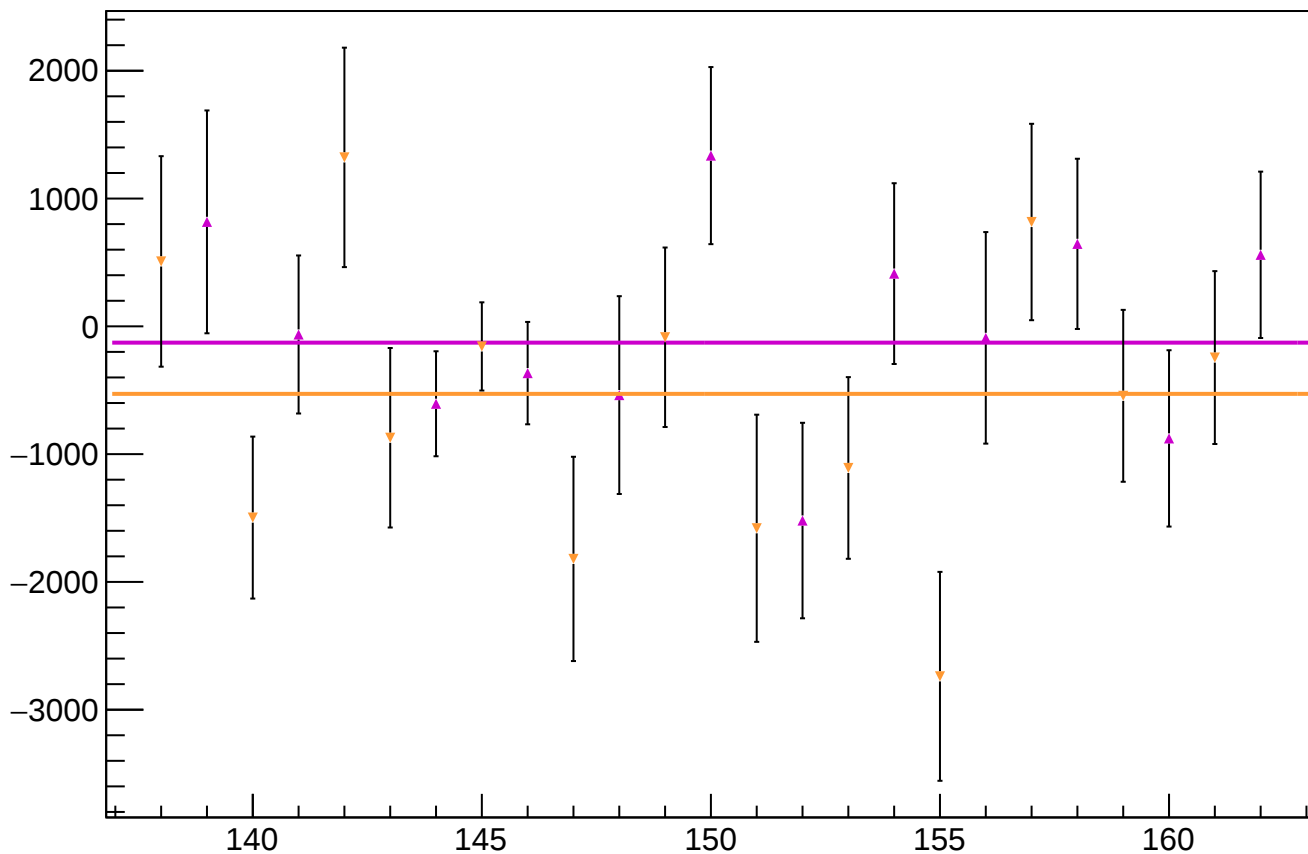
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 114.041+/-0.026  $\chi^2/\text{NDF}$ :146233.1/11

Out: 111.264+/-0.026  $\chi^2/\text{NDF}$ :359760.6/12

All: 112.624+/-0.018  $\chi^2/\text{NDF}$ : 511774.5/24

asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -528.404 $\pm$ 182.074  $\chi^2$ /NDF:25.6/12

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

Left In: -127.603 $\pm$ 177.543  $\chi^2$ /NDF:15.2/11

Left: -322.954 $\pm$ 127.114  $\chi^2$ /NDF: 43.2/24

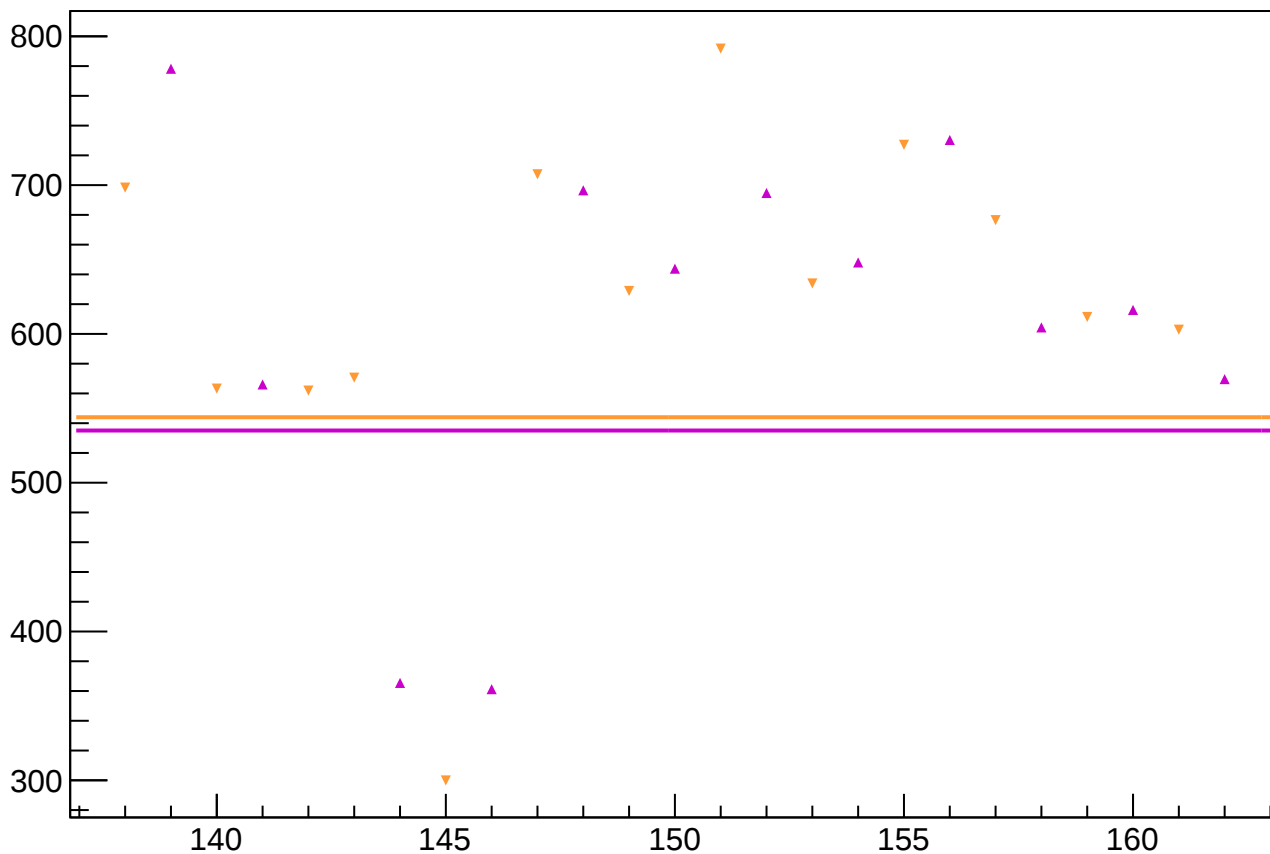
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -127.603 $\pm$ 177.543  $\chi^2$ /NDF:15.2/11

Out: -528.404 $\pm$ 182.074  $\chi^2$ /NDF:25.6/12

All: -322.954 $\pm$ 127.114  $\chi^2$ /NDF: 43.2/24

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 544.001+/-0.129  $\chi^2/\text{NDF}$ :1570998.4/12

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

Left In: 535.076+/-0.126  $\chi^2/\text{NDF}$ :1318877.4/11

Left: 539.426+/-0.090  $\chi^2/\text{NDF}$ : 2892339.2/24

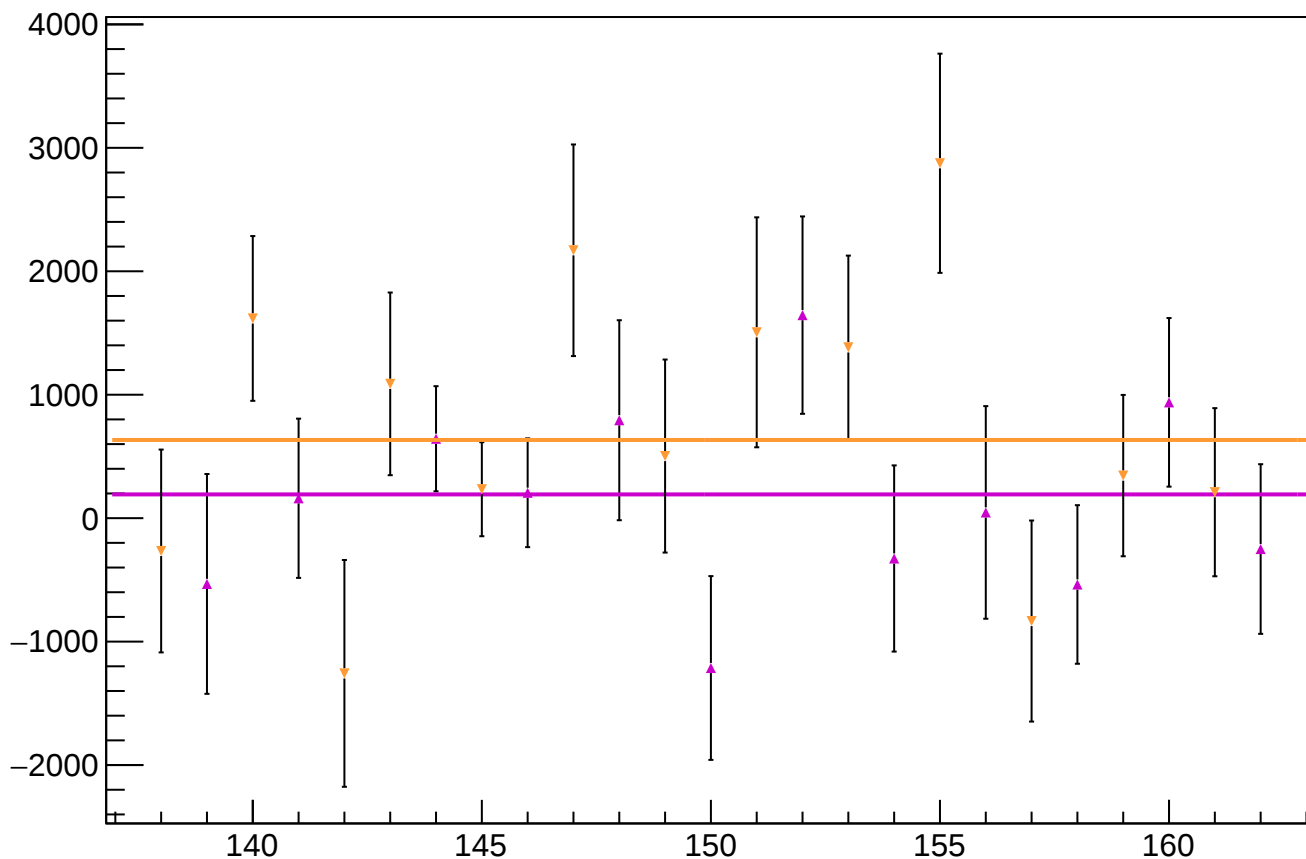
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 535.076+/-0.126  $\chi^2/\text{NDF}$ :1318877.4/11

Out: 544.001+/-0.129  $\chi^2/\text{NDF}$ :1570998.4/12

All: 539.426+/-0.090  $\chi^2/\text{NDF}$ : 2892339.2/24

# asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 633.494+/-192.919  $\chi^2/\text{NDF}$ : 24.4/12

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

Left In: 192.495+/-185.642  $\chi^2/\text{NDF}$ : 12.6/11

Left: 404.521+/-133.767  $\chi^2/\text{NDF}$ : 39.7/24

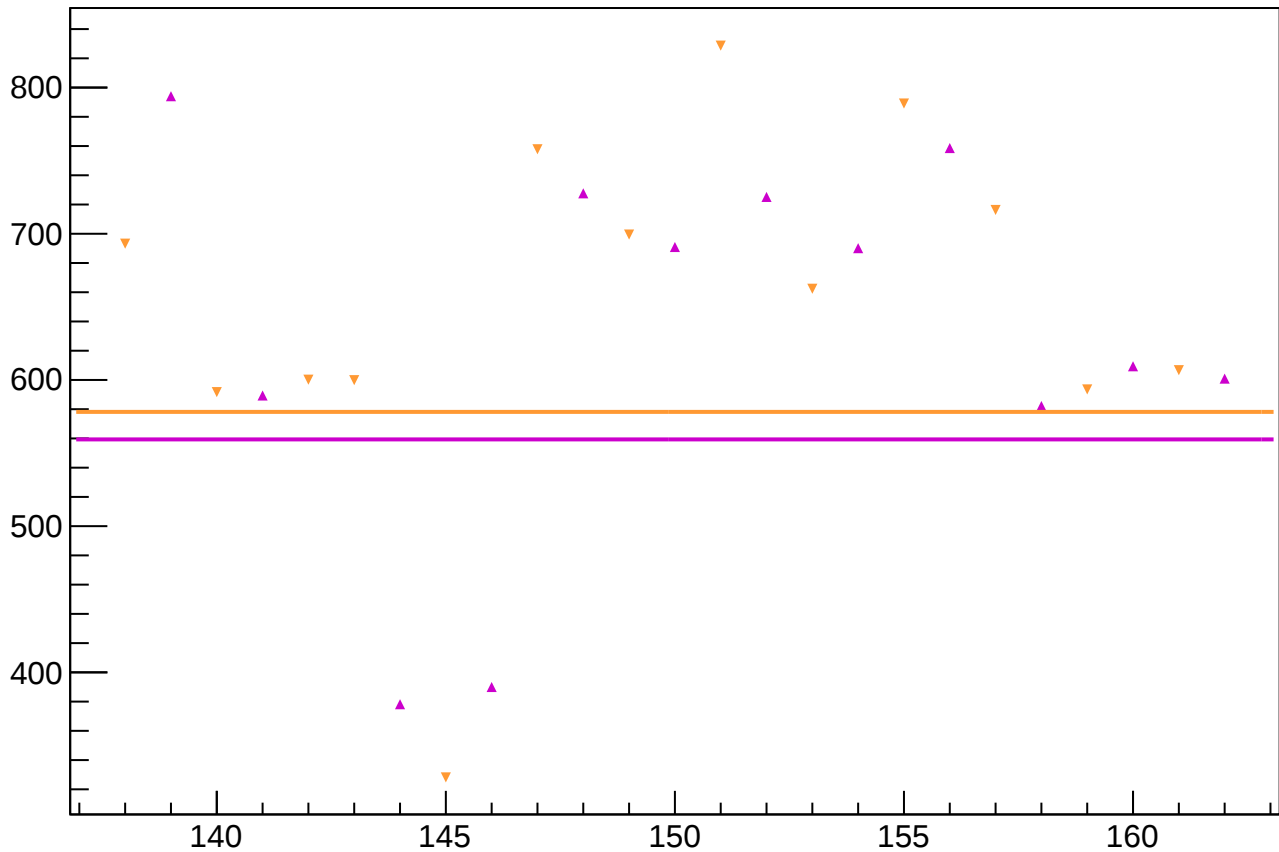
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 192.495+/-185.642  $\chi^2/\text{NDF}$ : 12.6/11

Out: 633.494+/-192.919  $\chi^2/\text{NDF}$ : 24.4/12

All: 404.521+/-133.767  $\chi^2/\text{NDF}$ : 39.7/24

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 578.164+/-0.136  $\chi^2/\text{NDF}$ :1386393.3/12

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

Left In: 559.338+/-0.131  $\chi^2/\text{NDF}$ :1223480.4/11

Left: 568.389+/-0.095  $\chi^2/\text{NDF}$ : 2619763.1/24

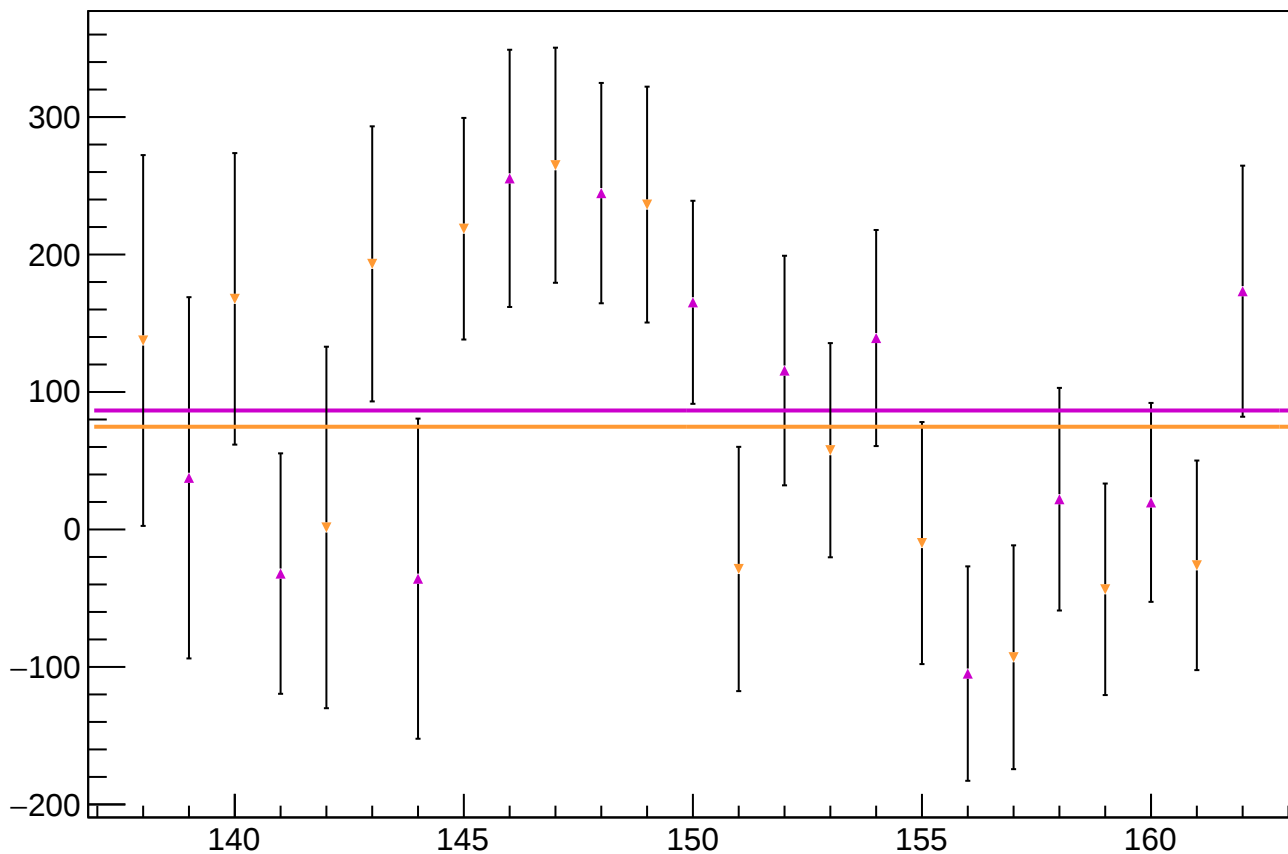
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 559.338+/-0.131  $\chi^2/\text{NDF}$ :1223480.4/11

Out: 578.164+/-0.136  $\chi^2/\text{NDF}$ :1386393.3/12

All: 568.389+/-0.095  $\chi^2/\text{NDF}$ : 2619763.1/24

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 74.728 $\pm$ 24.688  $\chi^2$ /NDF:25.1/12

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

Left In: 86.546 $\pm$ 24.626  $\chi^2$ /NDF:20.4/11

Left: 80.652 $\pm$ 17.435  $\chi^2$ /NDF: 45.5/24

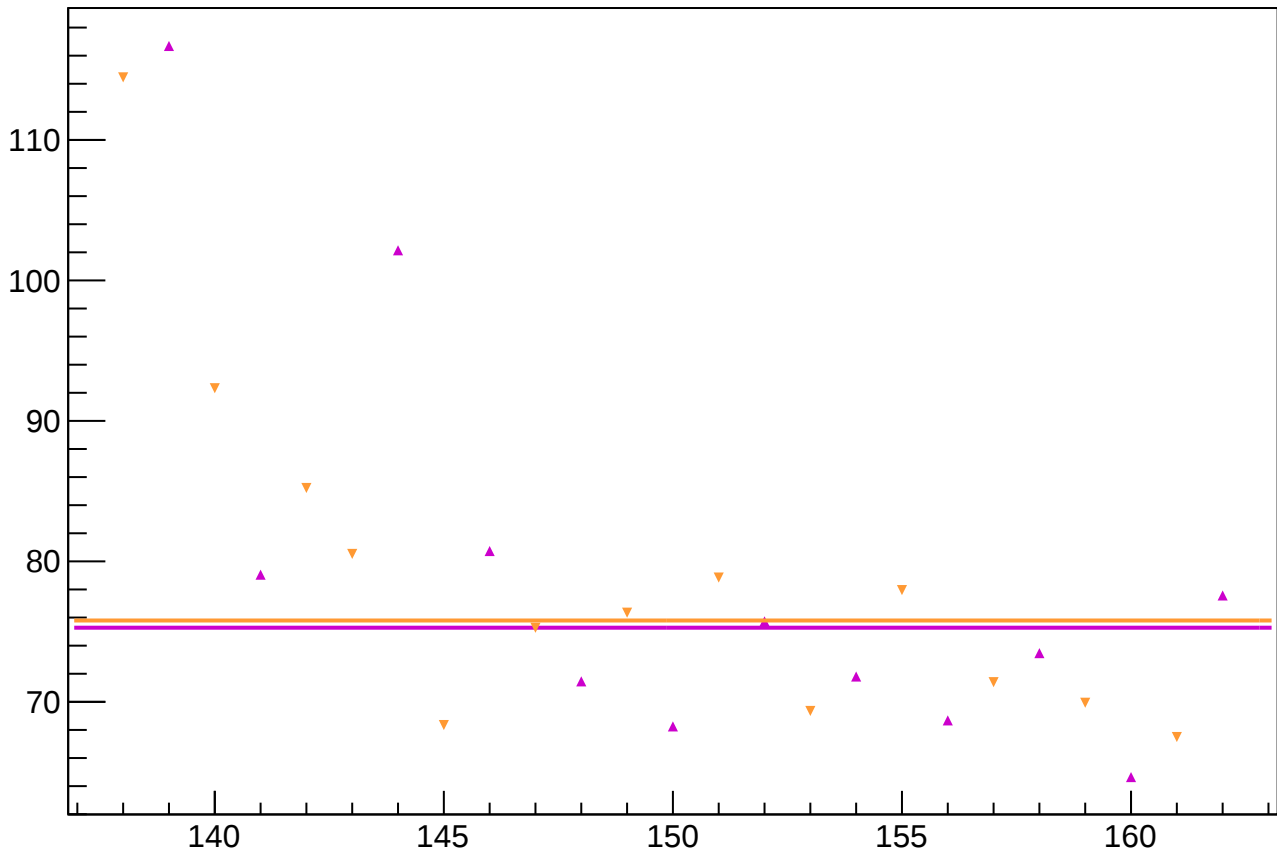
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 86.546 $\pm$ 24.626  $\chi^2$ /NDF:20.4/11

Out: 74.728 $\pm$ 24.688  $\chi^2$ /NDF:25.1/12

All: 80.652 $\pm$ 17.435  $\chi^2$ /NDF: 45.5/24

dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 75.791+/-0.017  $\chi^2/\text{NDF}$ :303322.7/12

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

Left In: 75.278+/-0.017  $\chi^2/\text{NDF}$ :402102.8/11

Left: 75.534+/-0.012  $\chi^2/\text{NDF}$ : 705859.4/24

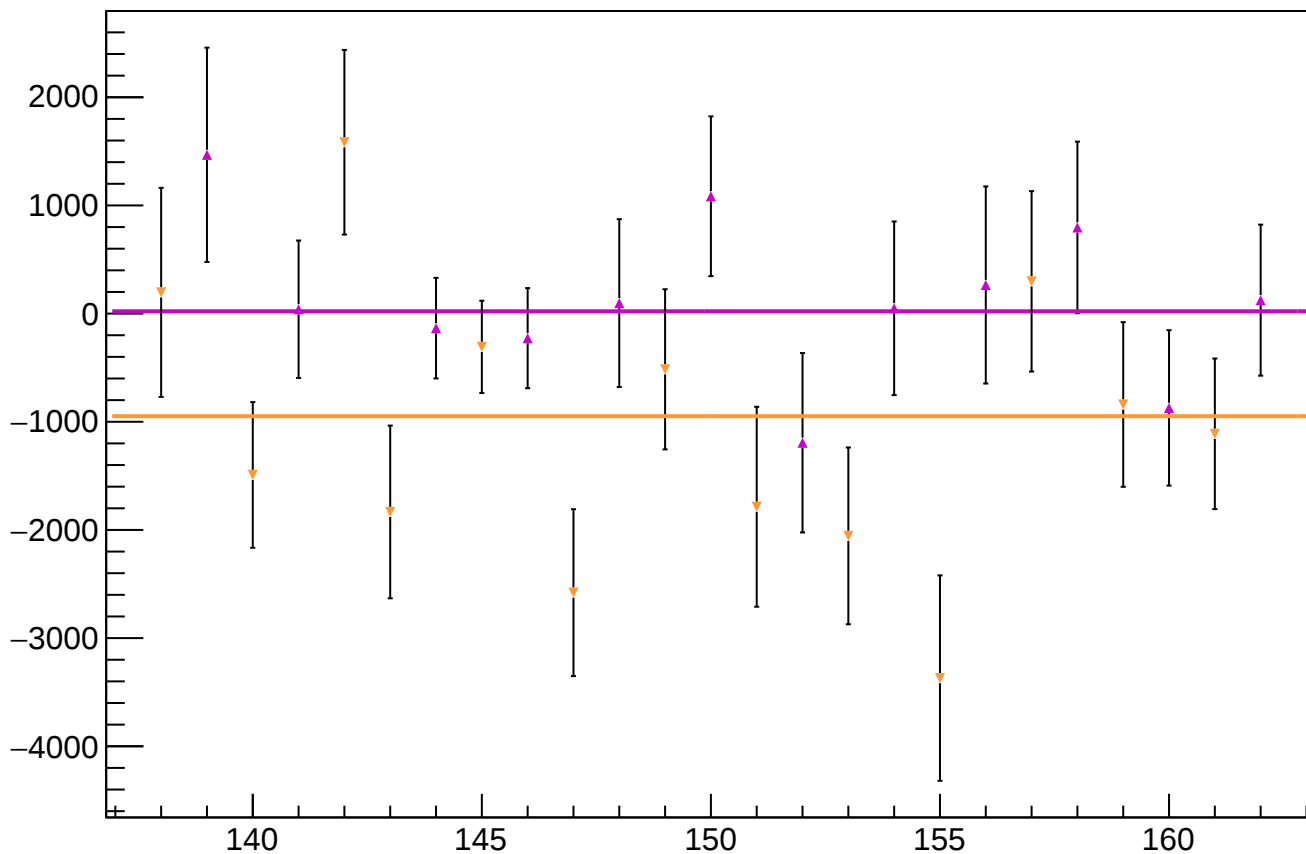
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 75.278+/-0.017  $\chi^2/\text{NDF}$ :402102.8/11

Out: 75.791+/-0.017  $\chi^2/\text{NDF}$ :303322.7/12

All: 75.534+/-0.012  $\chi^2/\text{NDF}$ : 705859.4/24

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -948.147+/-203.183  $\chi^2/\text{NDF}$ :30.6/12

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

Left In: 21.309+/-195.830  $\chi^2/\text{NDF}$ :9.4/11

Left: -445.559+/-141.000  $\chi^2/\text{NDF}$ : 51.8/24

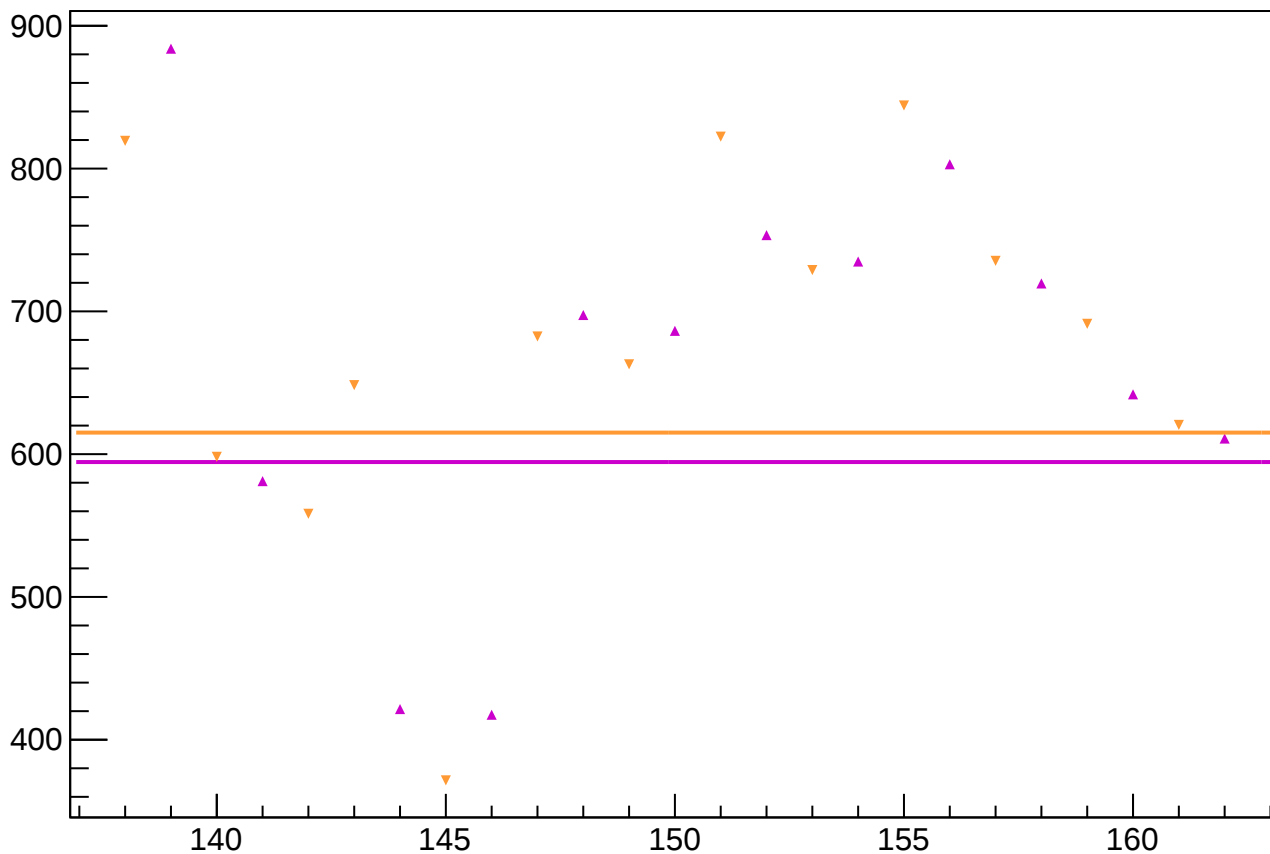
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 21.309+/-195.830  $\chi^2/\text{NDF}$ :9.4/11

Out: -948.147+/-203.183  $\chi^2/\text{NDF}$ :30.6/12

All: -445.559+/-141.000  $\chi^2/\text{NDF}$ : 51.8/24

asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 615.103+/-0.144  $\chi^2/\text{NDF}$ :1096107.5/12

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

Left In: 594.472+/-0.138  $\chi^2/\text{NDF}$ :1106352.5/11

Left: 604.408+/-0.100  $\chi^2/\text{NDF}$ : 2213149.8/24

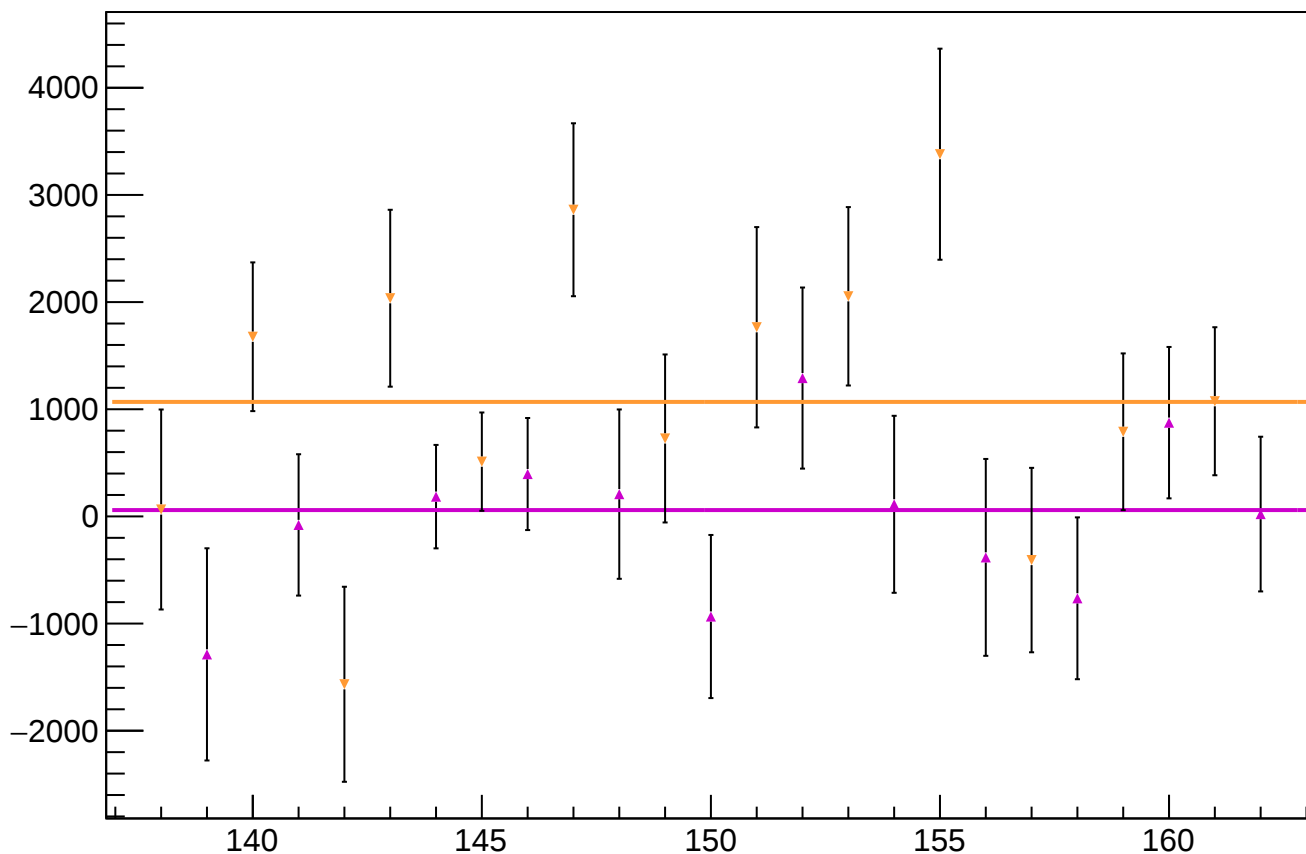
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 594.472+/-0.138  $\chi^2/\text{NDF}$ :1106352.5/11

Out: 615.103+/-0.144  $\chi^2/\text{NDF}$ :1096107.5/12

All: 604.408+/-0.100  $\chi^2/\text{NDF}$ : 2213149.8/24

asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1068.534+/-209.672  $\chi^2/\text{NDF}$ :28.8/12

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

Left In: 59.072+/-202.759  $\chi^2/\text{NDF}$ :9.0/11

Left: 546.887+/-145.755  $\chi^2/\text{NDF}$ : 49.8/24

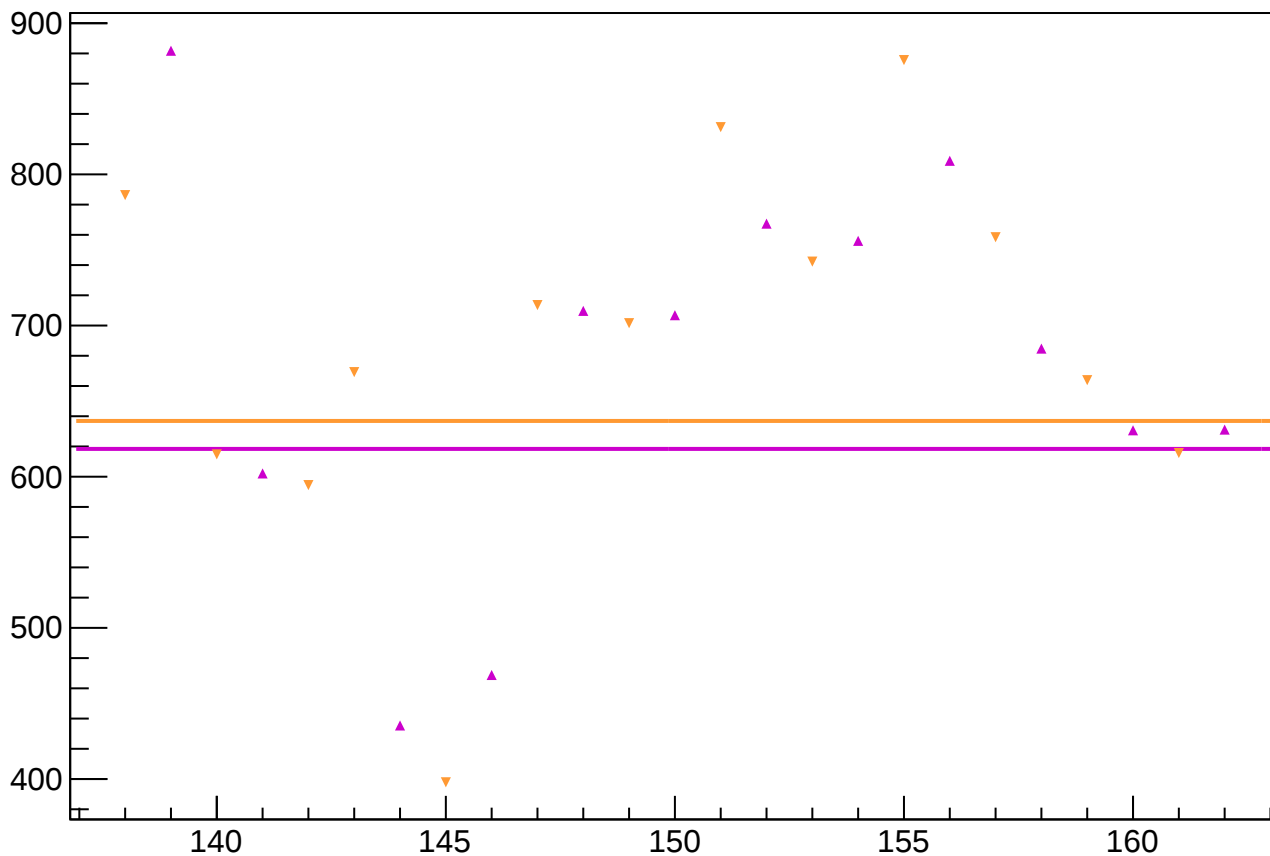
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 59.072+/-202.759  $\chi^2/\text{NDF}$ :9.0/11

Out: 1068.534+/-209.672  $\chi^2/\text{NDF}$ :28.8/12

All: 546.887+/-145.755  $\chi^2/\text{NDF}$ : 49.8/24

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 636.888+/-0.148  $\chi^2/\text{NDF}$ :915679.4/12

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

Left In: 618.390+/-0.143  $\chi^2/\text{NDF}$ :867930.7/11

Left: 627.329+/-0.103  $\chi^2/\text{NDF}$ : 1791654.9/24

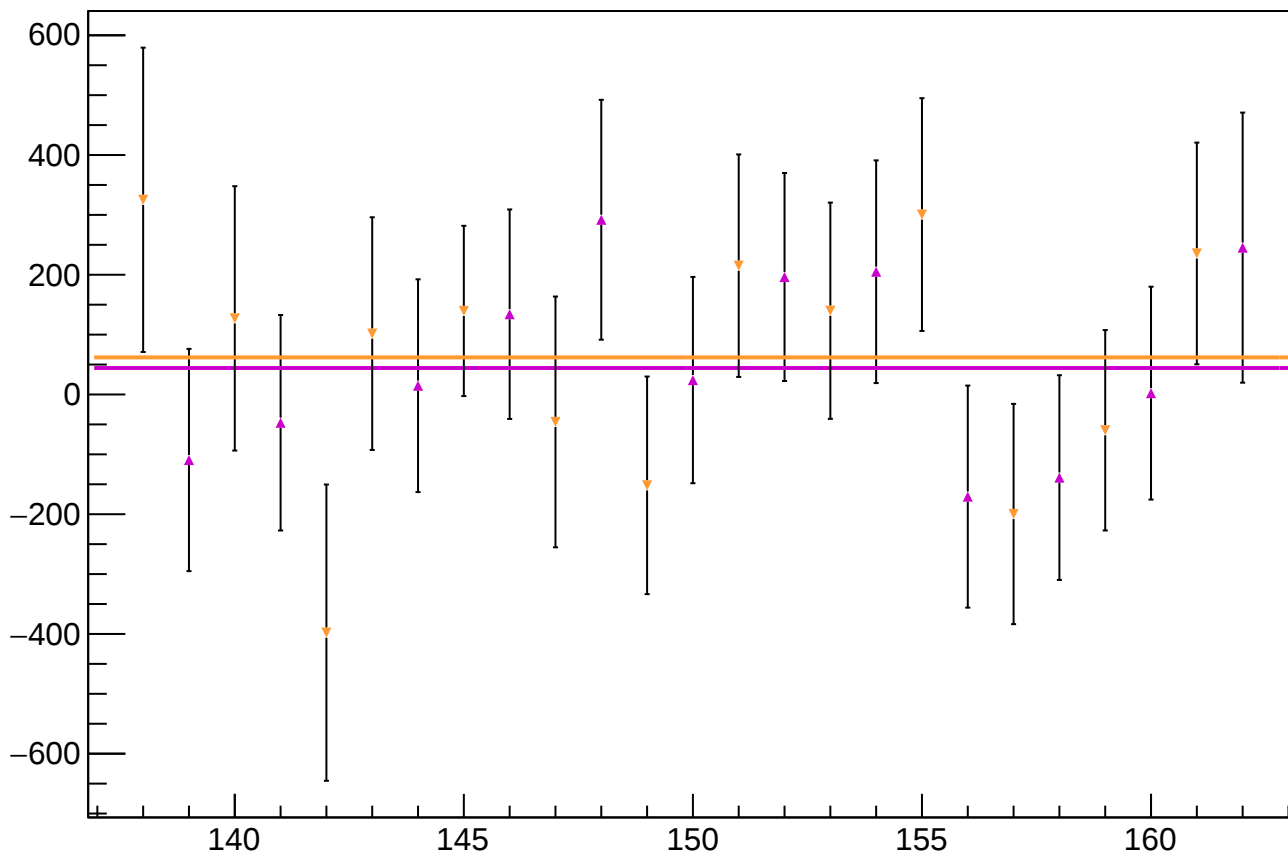
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 618.390+/-0.143  $\chi^2/\text{NDF}$ :867930.7/11

Out: 636.888+/-0.148  $\chi^2/\text{NDF}$ :915679.4/12

All: 627.329+/-0.103  $\chi^2/\text{NDF}$ : 1791654.9/24

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 61.936+/-52.574  $\chi^2/\text{NDF}$ :12.4/12

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

Left In: 44.249+/-52.748  $\chi^2/\text{NDF}$ :7.6/11

Left: 53.122+/-37.237  $\chi^2/\text{NDF}$ : 20.1/24

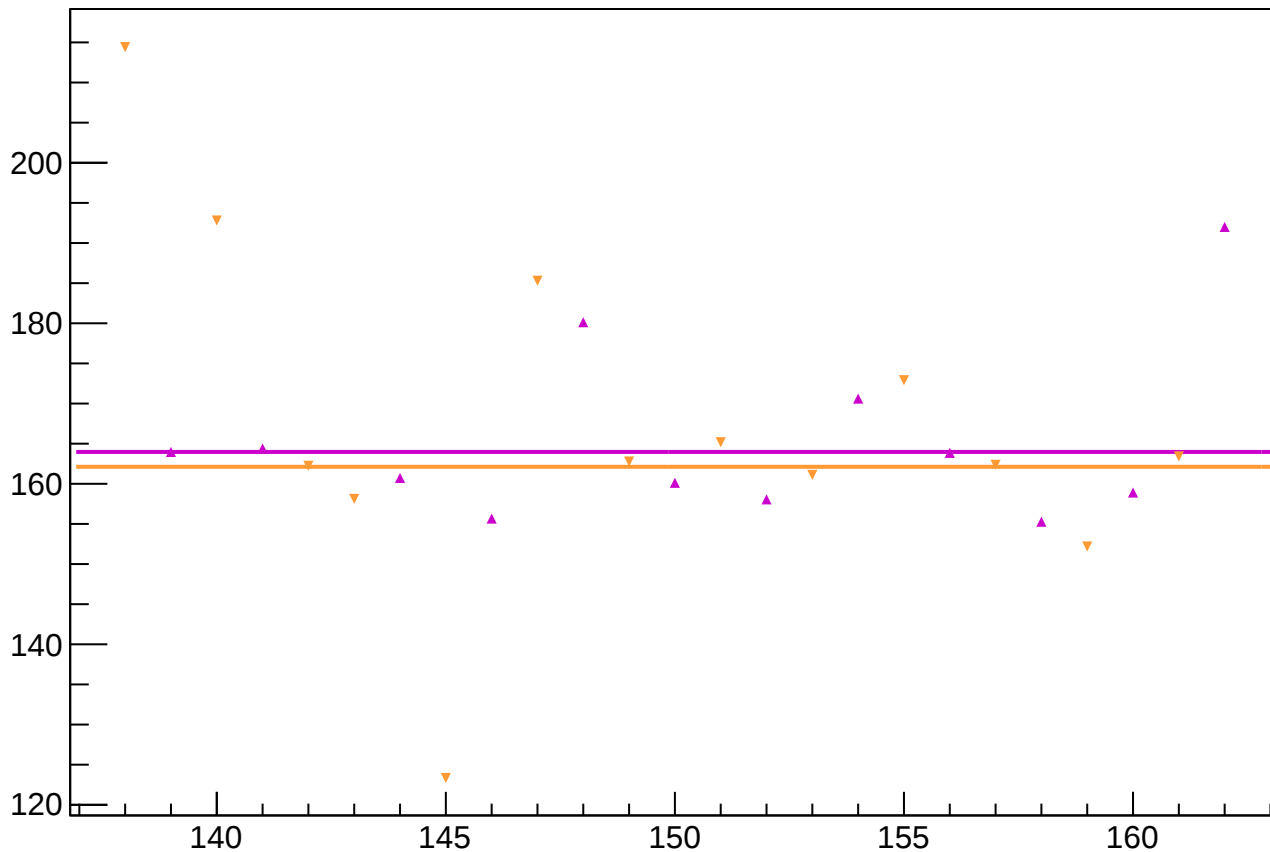
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 44.249+/-52.748  $\chi^2/\text{NDF}$ :7.6/11

Out: 61.936+/-52.574  $\chi^2/\text{NDF}$ :12.4/12

All: 53.122+/-37.237  $\chi^2/\text{NDF}$ : 20.1/24

dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 162.118+/-0.037  $\chi^2/\text{NDF}$ :311298.7/12

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

Left In: 163.970+/-0.037  $\chi^2/\text{NDF}$ :61738.3/11

Left: 163.041+/-0.026  $\chi^2/\text{NDF}$ : 374274.1/24

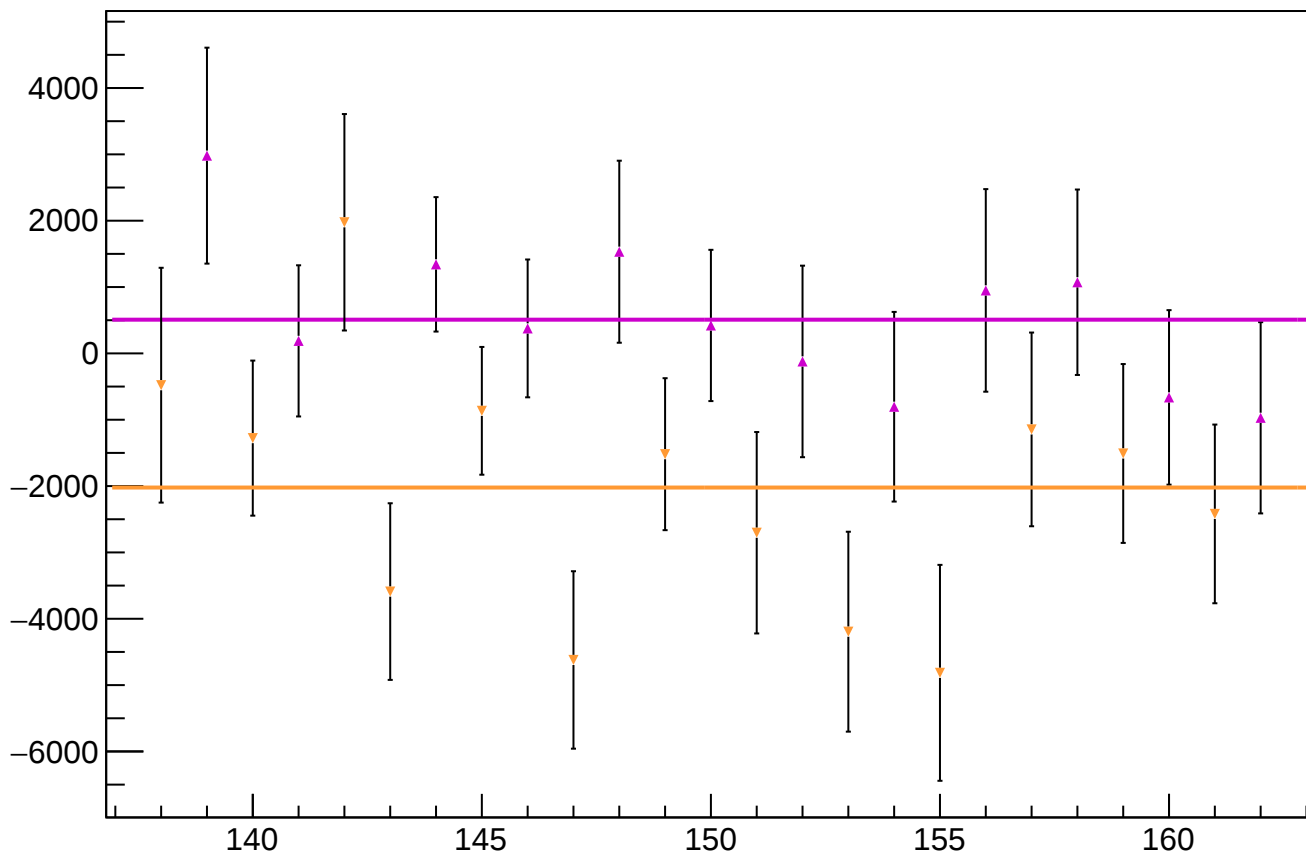
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 163.970+/-0.037  $\chi^2/\text{NDF}$ :61738.3/11

Out: 162.118+/-0.037  $\chi^2/\text{NDF}$ :311298.7/12

All: 163.041+/-0.026  $\chi^2/\text{NDF}$ : 374274.1/24

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -2022.041 $\pm$ 372.304  $\chi^2$ /NDF:19.8/12

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

Left In: 508.082 $\pm$ 369.630  $\chi^2$ /NDF:6.8/11

Left: -747.863 $\pm$ 262.308  $\chi^2$ /NDF: 49.8/24

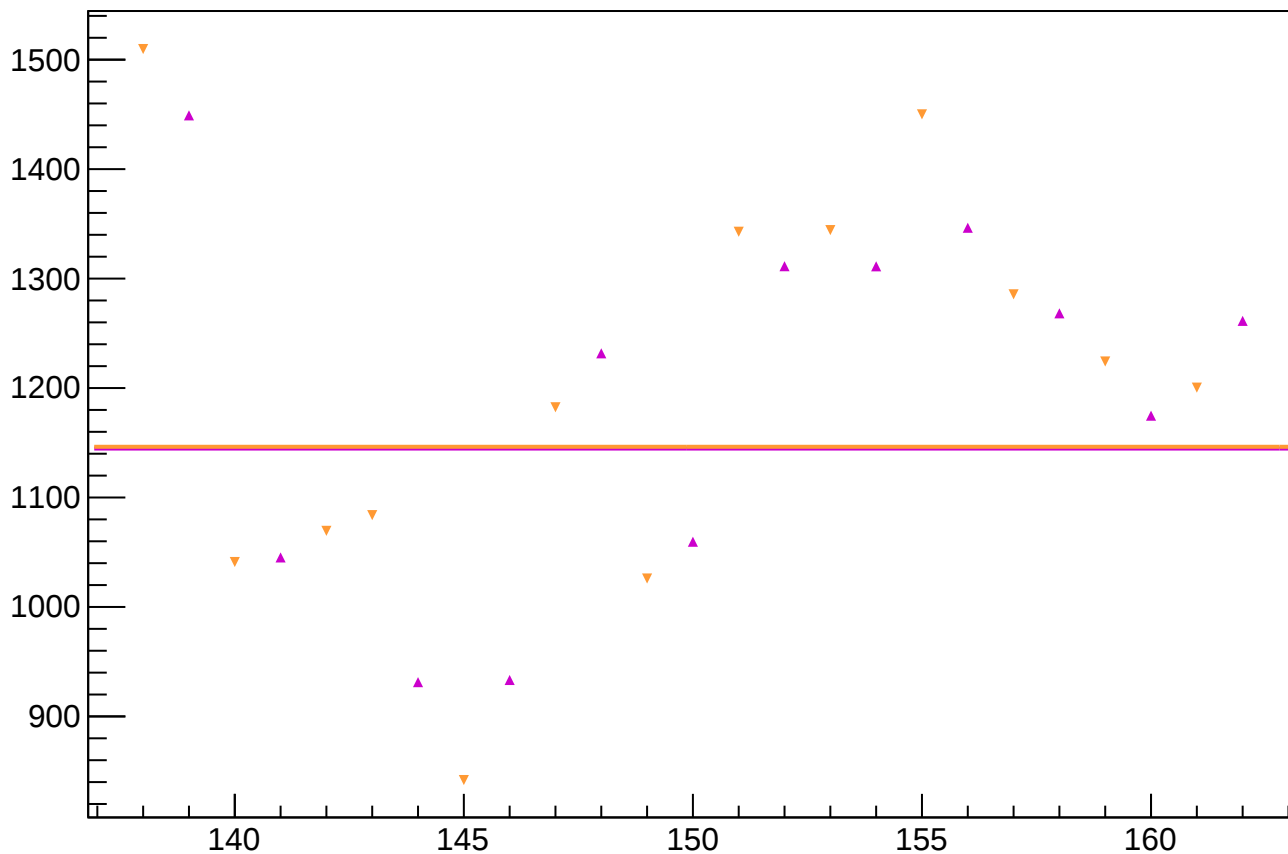
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 508.082 $\pm$ 369.630  $\chi^2$ /NDF:6.8/11

Out: -2022.041 $\pm$ 372.304  $\chi^2$ /NDF:19.8/12

All: -747.863 $\pm$ 262.308  $\chi^2$ /NDF: 49.8/24

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1146.349+/-0.263  $\chi^2/\text{NDF}$ : 498676.8/12

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

Left In: 1144.716+/-0.261  $\chi^2/\text{NDF}$ : 394433.1/11

Left: 1145.526+/-0.185  $\chi^2/\text{NDF}$ : 893129.3/24

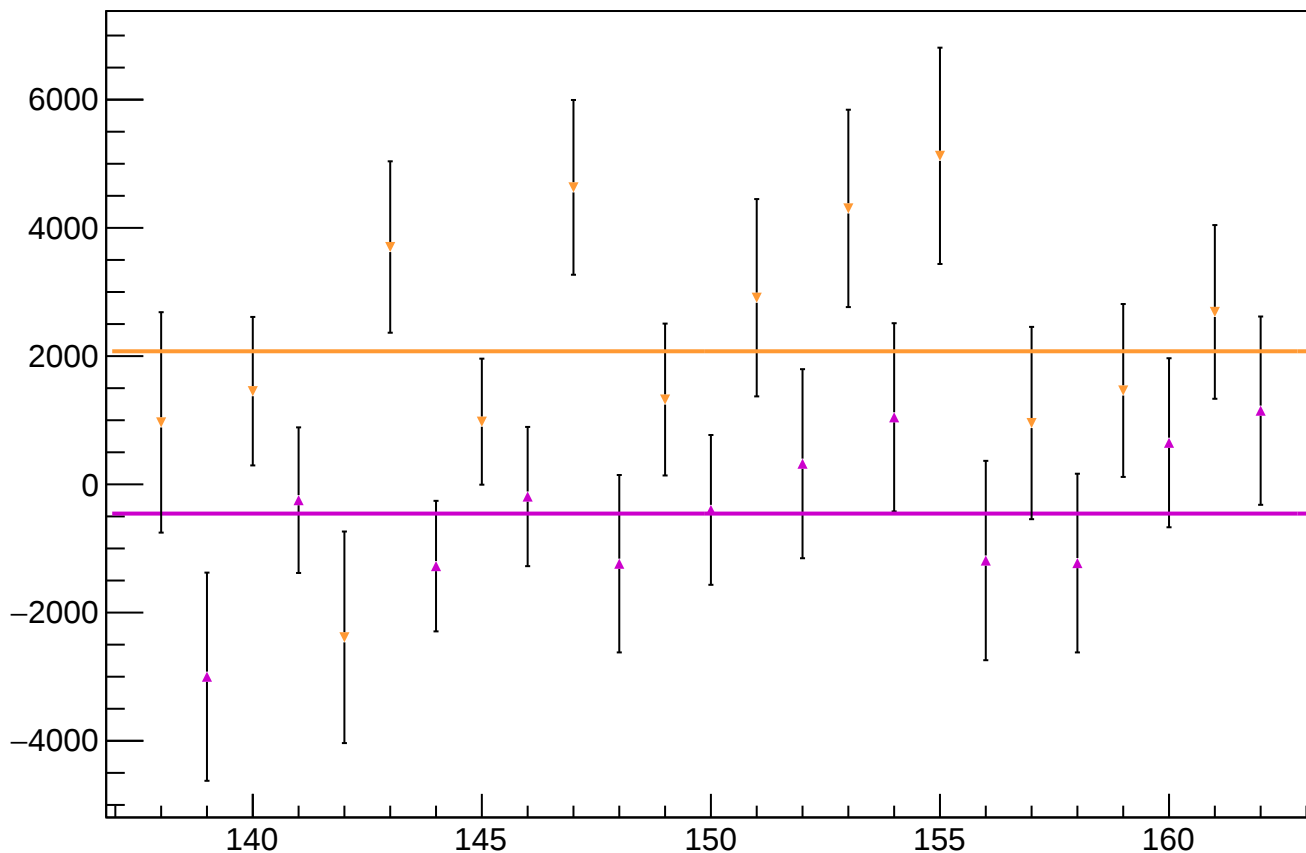
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1144.716+/-0.261  $\chi^2/\text{NDF}$ : 394433.1/11

Out: 1146.349+/-0.263  $\chi^2/\text{NDF}$ : 498676.8/12

All: 1145.526+/-0.185  $\chi^2/\text{NDF}$ : 893129.3/24

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 2075.484+/-377.068  $\chi^2/\text{NDF}$ :21.3/12

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

Left In: -455.931+/-374.882  $\chi^2/\text{NDF}$ :7.3/11

Left: 802.420+/-265.851  $\chi^2/\text{NDF}$ : 51.2/24

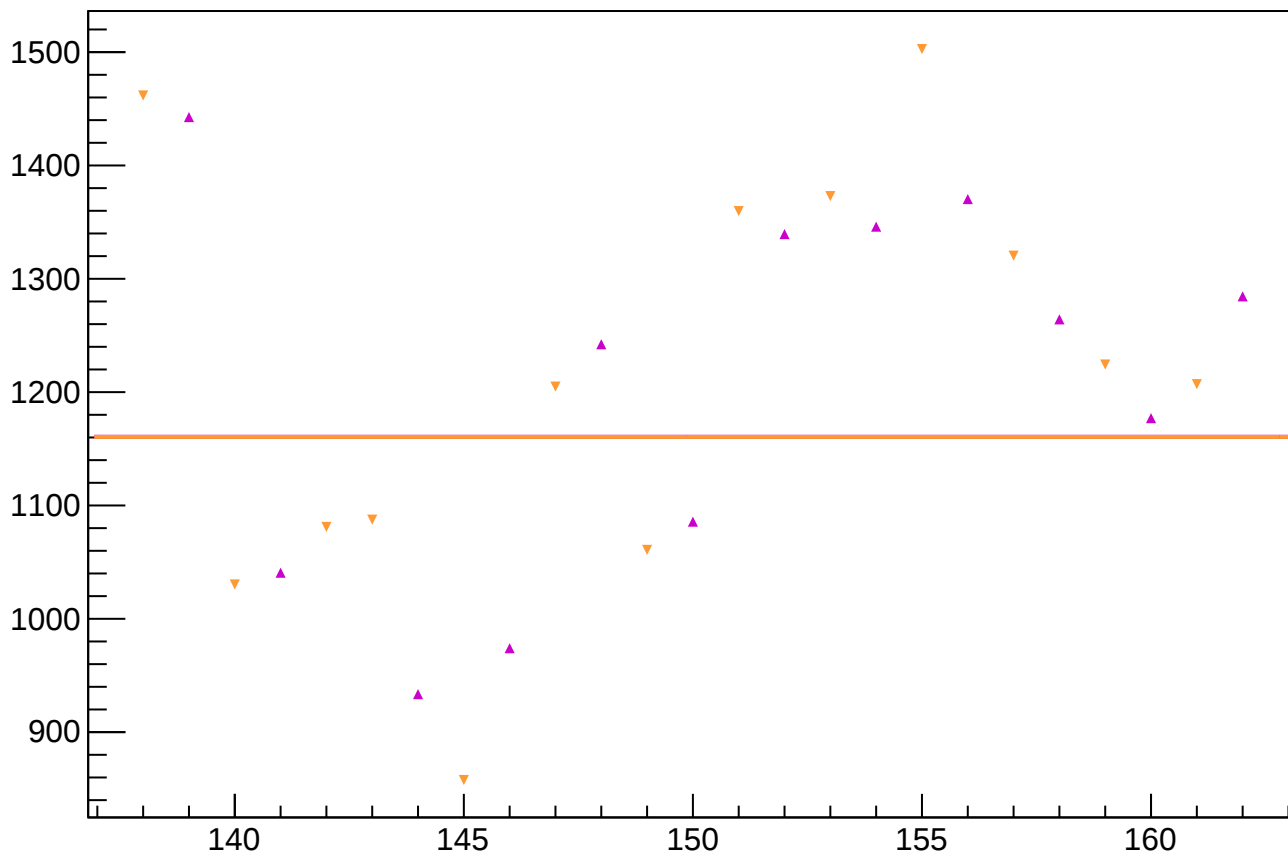
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -455.931+/-374.882  $\chi^2/\text{NDF}$ :7.3/11

Out: 2075.484+/-377.068  $\chi^2/\text{NDF}$ :21.3/12

All: 802.420+/-265.851  $\chi^2/\text{NDF}$ : 51.2/24

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1160.499+/-0.267  $\chi^2/\text{NDF}$ :486960.1/12

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

Left In: 1160.593+/-0.265  $\chi^2/\text{NDF}$ :379806.6/11

Left: 1160.546+/-0.188  $\chi^2/\text{NDF}$ : 866766.8/24

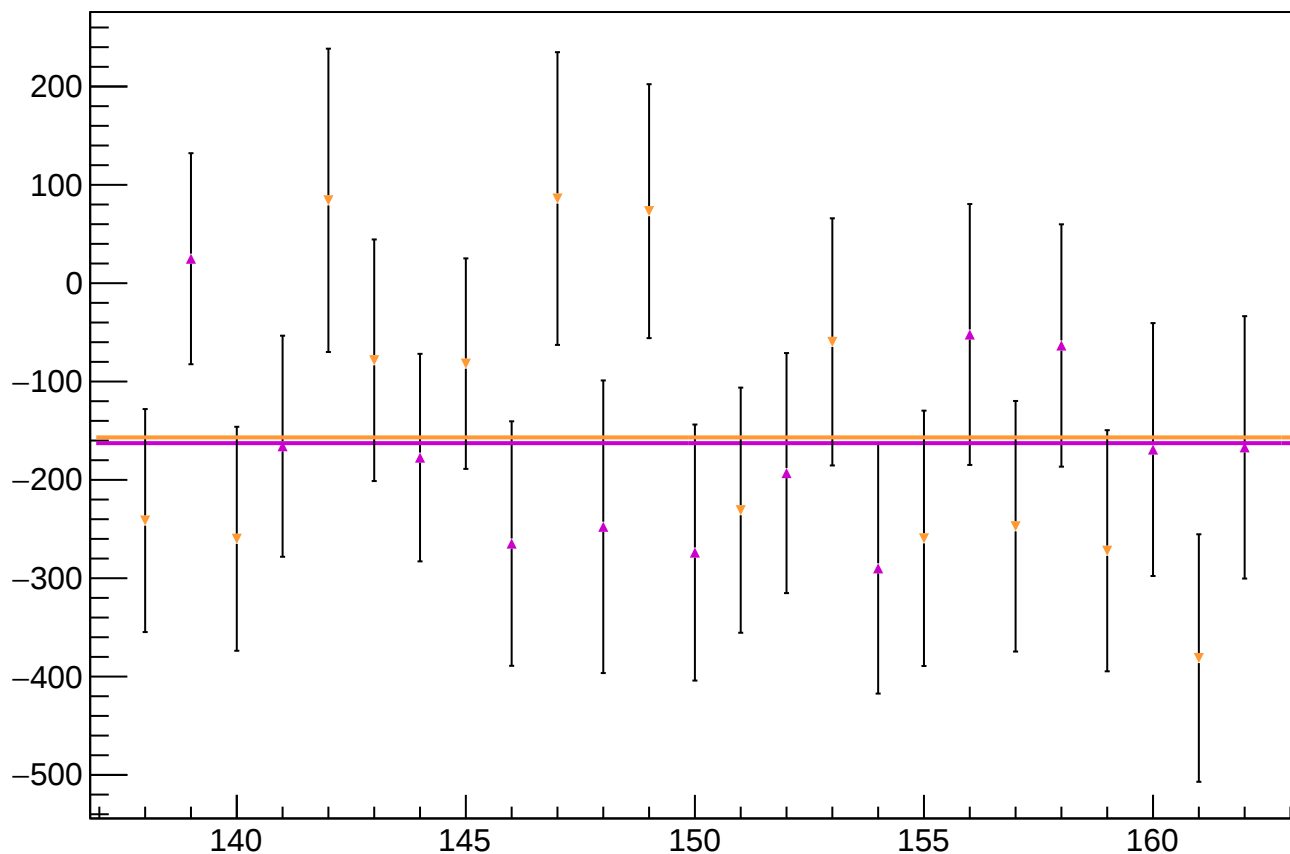
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1160.593+/-0.265  $\chi^2/\text{NDF}$ :379806.6/11

Out: 1160.499+/-0.267  $\chi^2/\text{NDF}$ :486960.1/12

All: 1160.546+/-0.188  $\chi^2/\text{NDF}$ : 866766.8/24

dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -156.780+/-34.627  $\chi^2/\text{NDF}$ :16.7/12

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

Left In: -162.649+/-35.513  $\chi^2/\text{NDF}$ :7.2/11

Left: -159.640+/-24.792  $\chi^2/\text{NDF}$ : 23.9/24

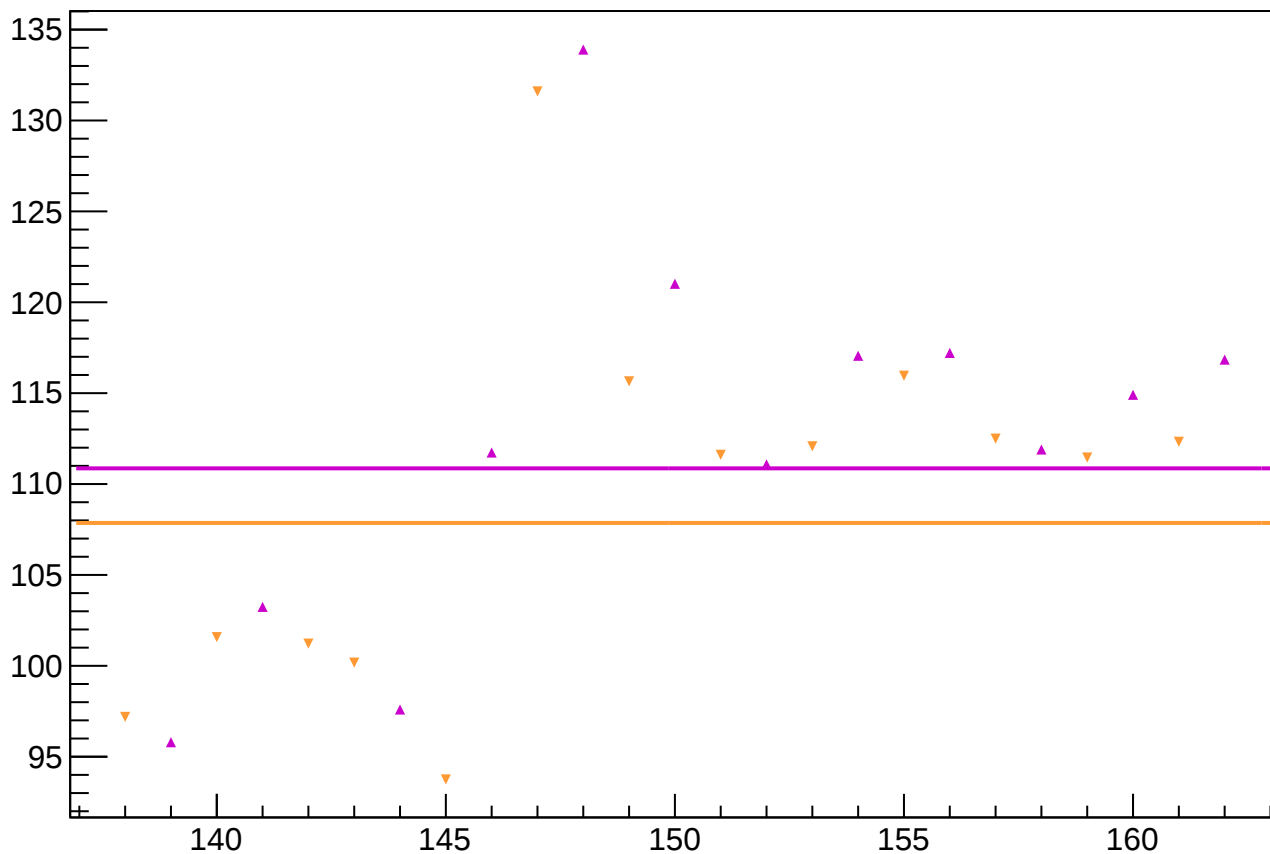
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -162.649+/-35.513  $\chi^2/\text{NDF}$ :7.2/11

Out: -156.780+/-34.627  $\chi^2/\text{NDF}$ :16.7/12

All: -159.640+/-24.792  $\chi^2/\text{NDF}$ : 23.9/24

dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 107.861+/-0.024  $\chi^2/\text{NDF}$ :146998.7/12

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

Left In: 110.863+/-0.025  $\chi^2/\text{NDF}$ :155930.0/11

Left: 109.324+/-0.018  $\chi^2/\text{NDF}$ : 310255.5/24

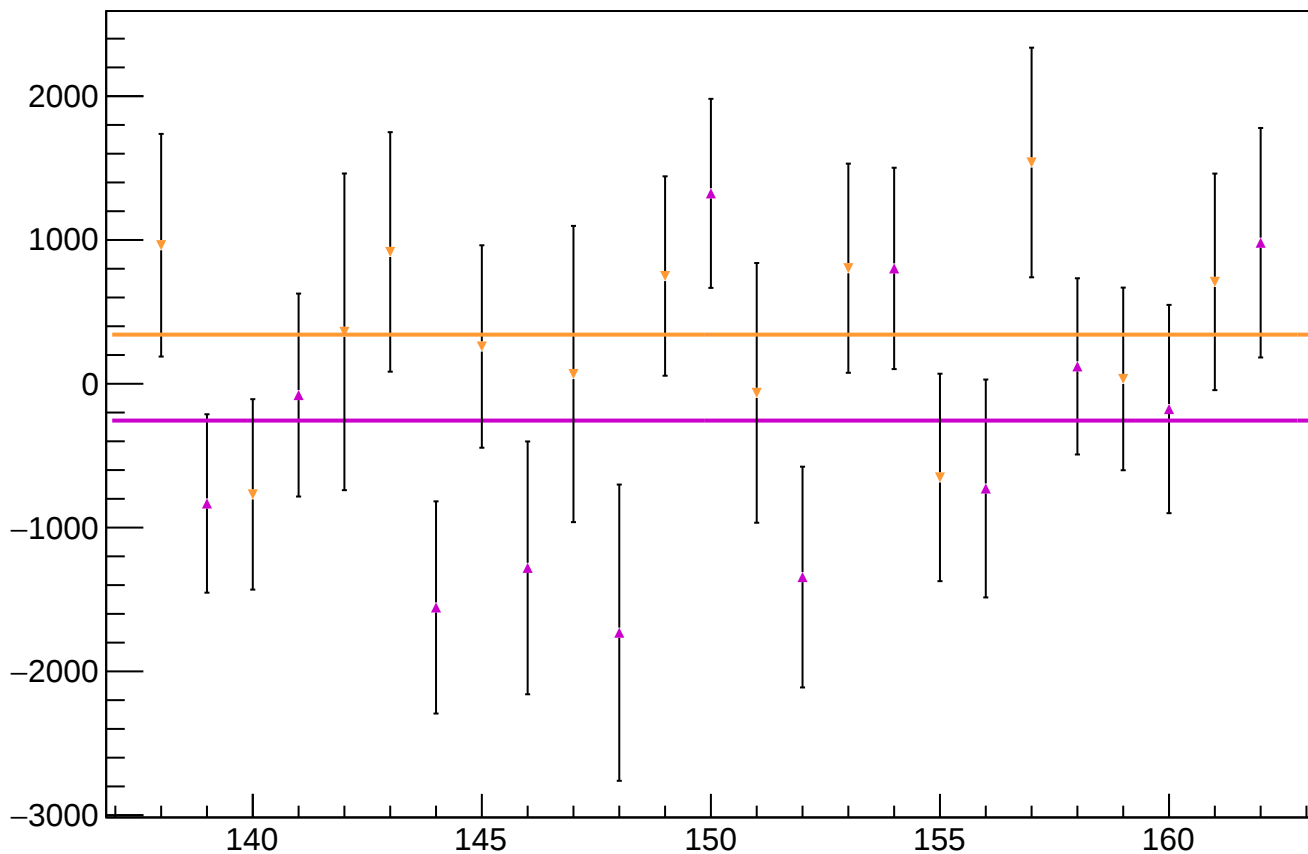
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 110.863+/-0.025  $\chi^2/\text{NDF}$ :155930.0/11

Out: 107.861+/-0.024  $\chi^2/\text{NDF}$ :146998.7/12

All: 109.324+/-0.018  $\chi^2/\text{NDF}$ : 310255.5/24

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 341.810+/-212.673  $\chi^2/\text{NDF}$ :9.6/12

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

Left In: -255.835+/-210.275  $\chi^2/\text{NDF}$ :20.7/11

Left: 39.601+/-149.528  $\chi^2/\text{NDF}$ : 34.3/24

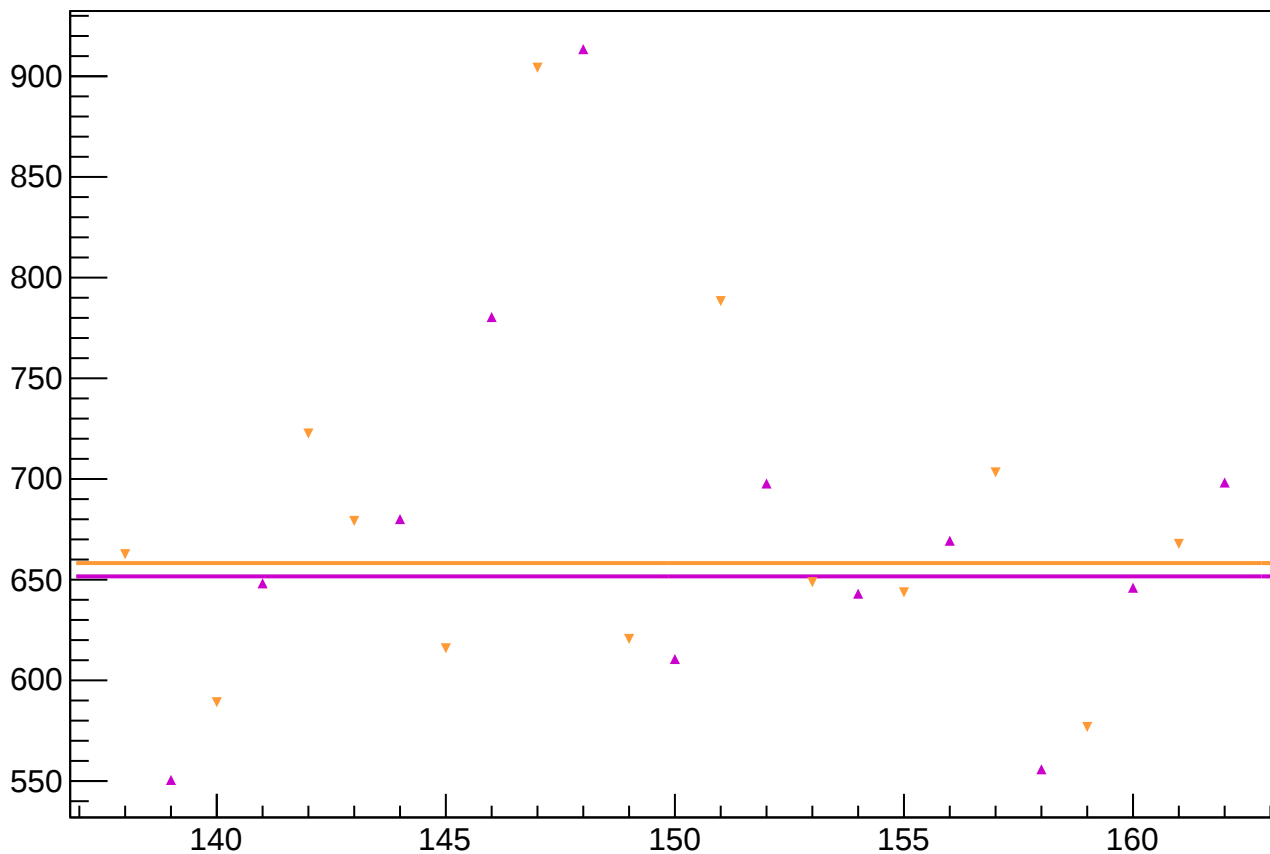
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -255.835+/-210.275  $\chi^2/\text{NDF}$ :20.7/11

Out: 341.810+/-212.673  $\chi^2/\text{NDF}$ :9.6/12

All: 39.601+/-149.528  $\chi^2/\text{NDF}$ : 34.3/24

asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 658.253+/-0.150  $\chi^2/\text{NDF}$ :239333.4/12

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

Left In: 651.646+/-0.149  $\chi^2/\text{NDF}$ :300523.7/11

Left: 654.912+/-0.106  $\chi^2/\text{NDF}$ : 540833.3/24

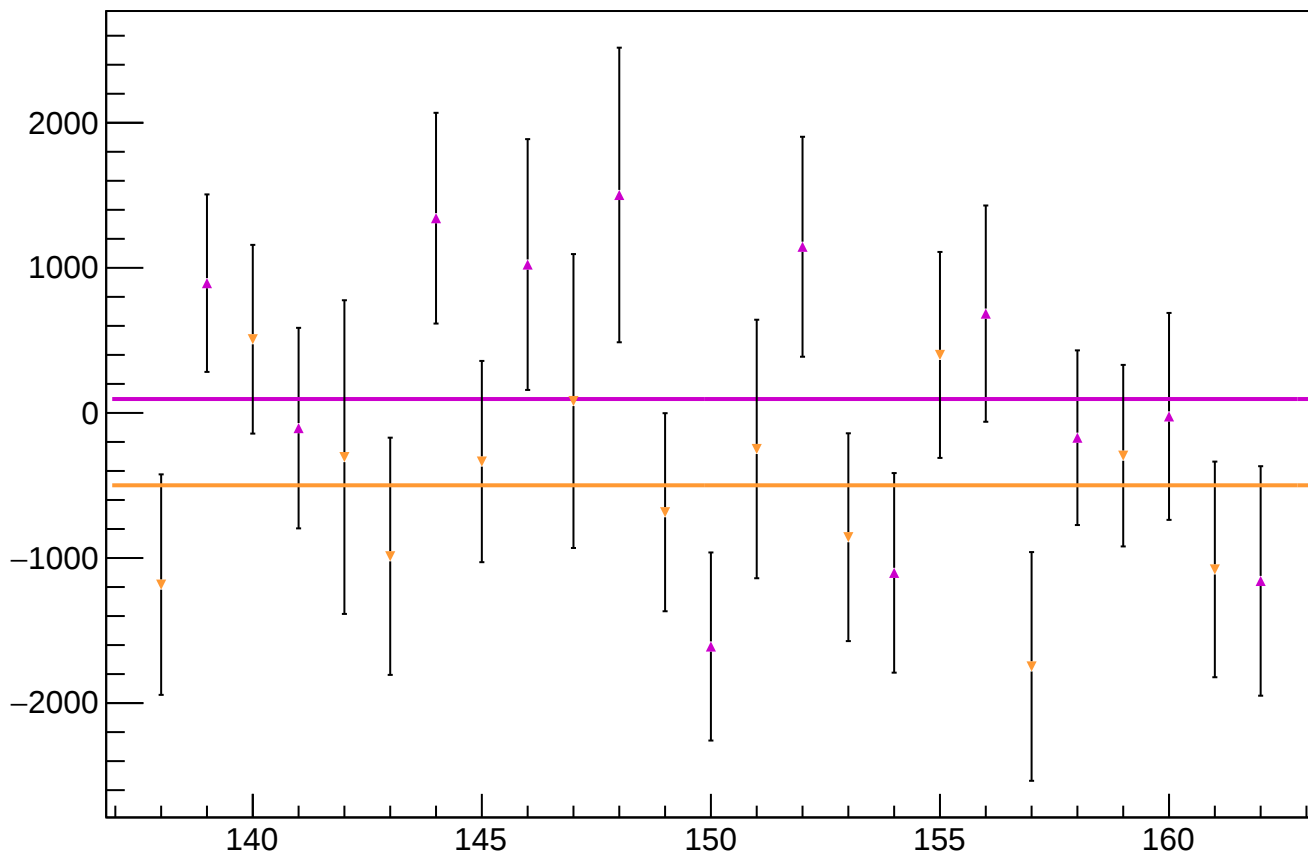
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 651.646+/-0.149  $\chi^2/\text{NDF}$ :300523.7/11

Out: 658.253+/-0.150  $\chi^2/\text{NDF}$ :239333.4/12

All: 654.912+/-0.106  $\chi^2/\text{NDF}$ : 540833.3/24

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -498.784+/-209.357  $\chi^2/\text{NDF}$ : 9.2/12

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

Left In: 95.858+/-207.047  $\chi^2/\text{NDF}$ : 23.0/11

Left: -198.164+/-147.214  $\chi^2/\text{NDF}$ : 36.3/24

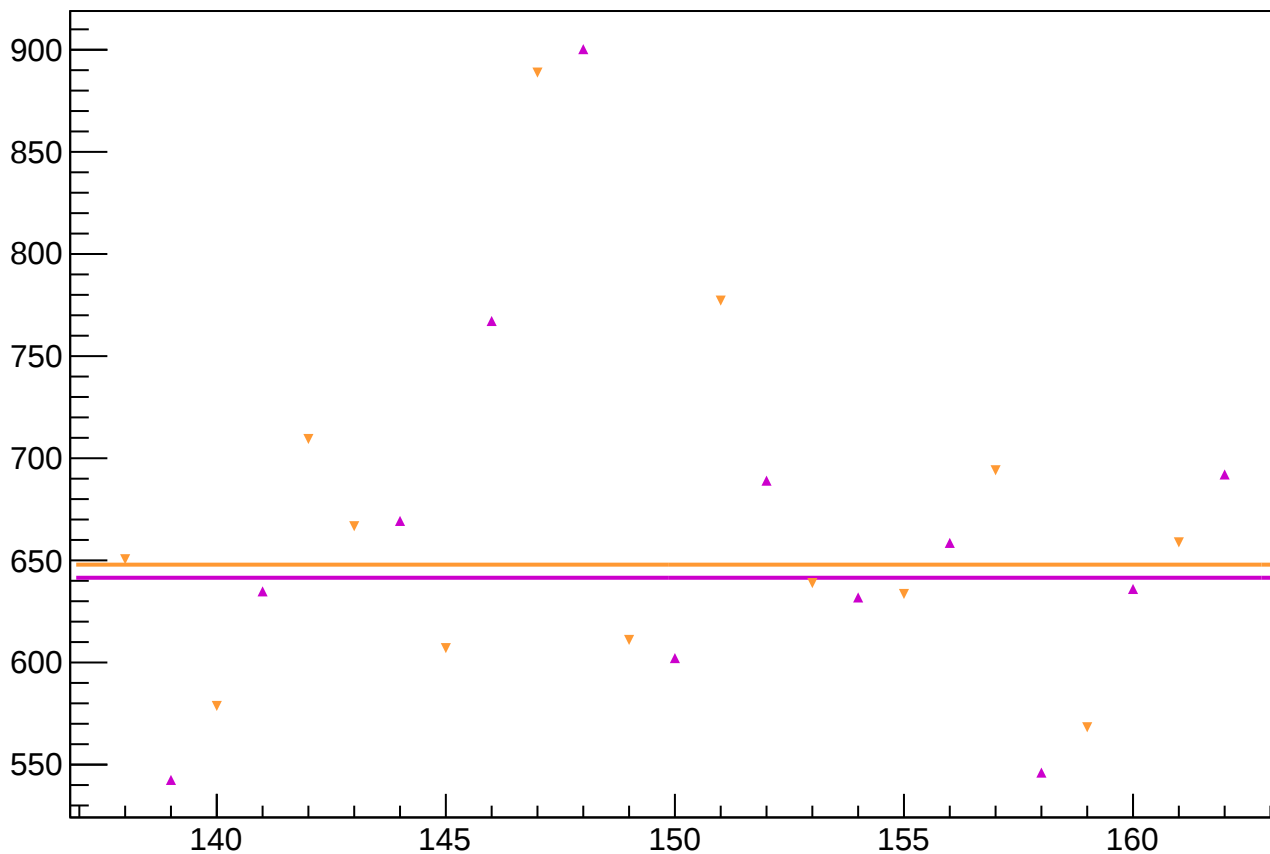
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 95.858+/-207.047  $\chi^2/\text{NDF}$ : 23.0/11

Out: -498.784+/-209.357  $\chi^2/\text{NDF}$ : 9.2/12

All: -198.164+/-147.214  $\chi^2/\text{NDF}$ : 36.3/24

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 647.908+/-0.148  $\chi^2/\text{NDF}$ :239035.6/12

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

Left In: 641.490+/-0.146  $\chi^2/\text{NDF}$ :302921.7/11

Left: 644.663+/-0.104  $\chi^2/\text{NDF}$ : 542907.6/24

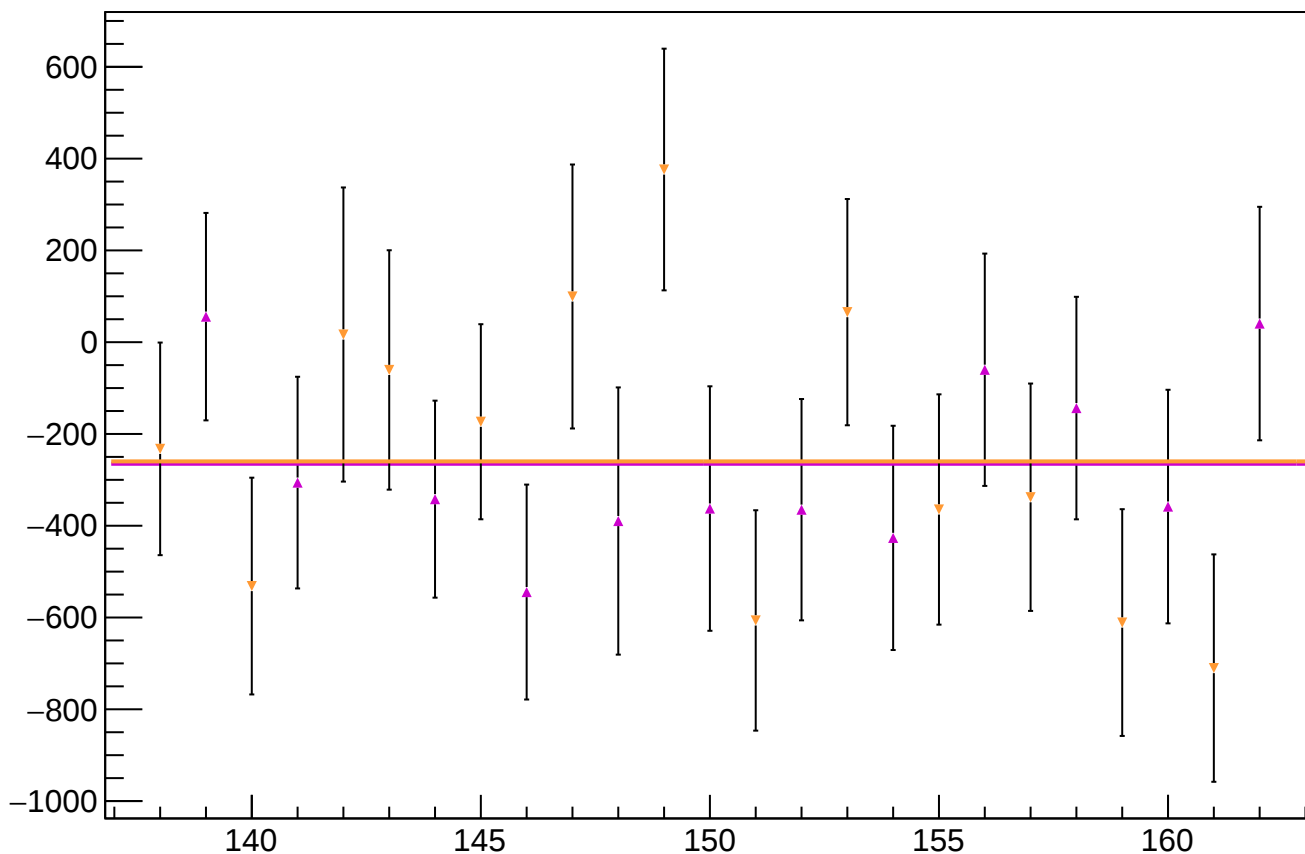
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 641.490+/-0.146  $\chi^2/\text{NDF}$ :302921.7/11

Out: 647.908+/-0.148  $\chi^2/\text{NDF}$ :239035.6/12

All: 644.663+/-0.104  $\chi^2/\text{NDF}$ : 542907.6/24

dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -259.775+/-69.293  $\chi^2/\text{NDF}$ :19.6/12

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

Left In: -264.953+/-70.422  $\chi^2/\text{NDF}$ :7.0/11

Left: -262.322+/-49.392  $\chi^2/\text{NDF}$ : 26.7/24

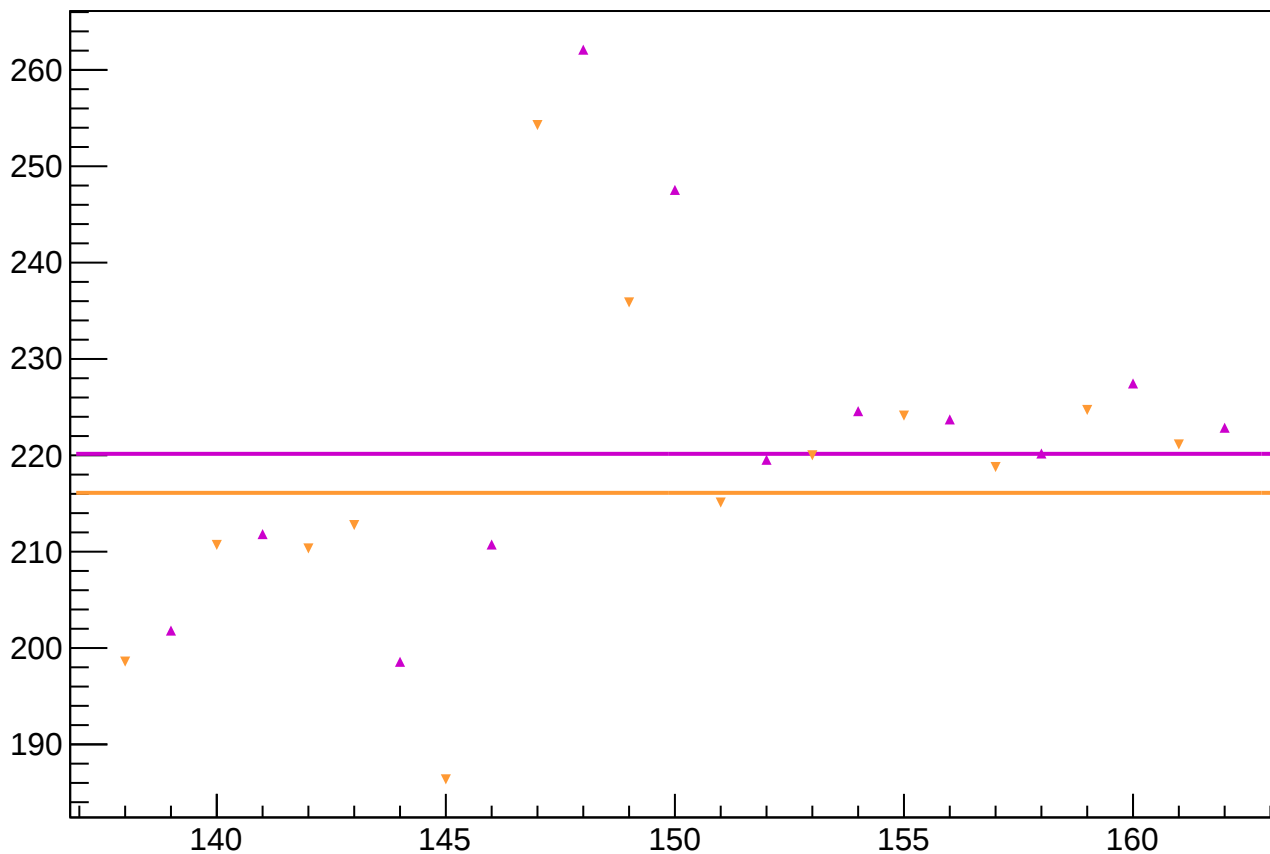
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -264.953+/-70.422  $\chi^2/\text{NDF}$ :7.0/11

Out: -259.775+/-69.293  $\chi^2/\text{NDF}$ :19.6/12

All: -262.322+/-49.392  $\chi^2/\text{NDF}$ : 26.7/24

dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 216.106+/-0.049  $\chi^2/\text{NDF}$ :105137.1/12

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

Left In: 220.155+/-0.050  $\chi^2/\text{NDF}$ :104833.7/11

Left: 218.098+/-0.035  $\chi^2/\text{NDF}$ : 213329.7/24

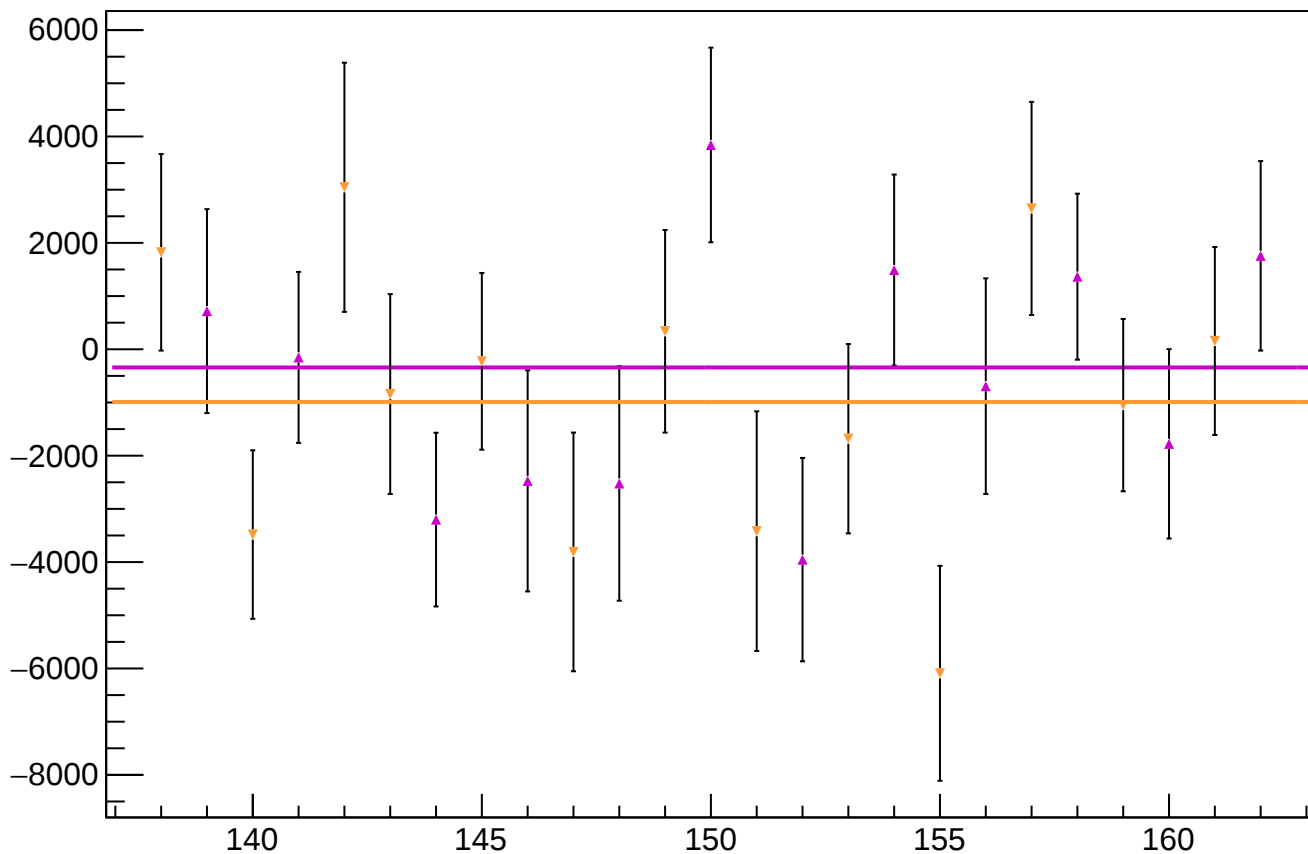
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 220.155+/-0.050  $\chi^2/\text{NDF}$ :104833.7/11

Out: 216.106+/-0.049  $\chi^2/\text{NDF}$ :105137.1/12

All: 218.098+/-0.035  $\chi^2/\text{NDF}$ : 213329.7/24

asym\_sam\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -990.951+/-519.670  $\chi^2/\text{NDF}$ :21.5/12

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

Left In: -341.581+/-524.140  $\chi^2/\text{NDF}$ :18.5/11

Left: -669.047+/-369.032  $\chi^2/\text{NDF}$ : 40.8/24

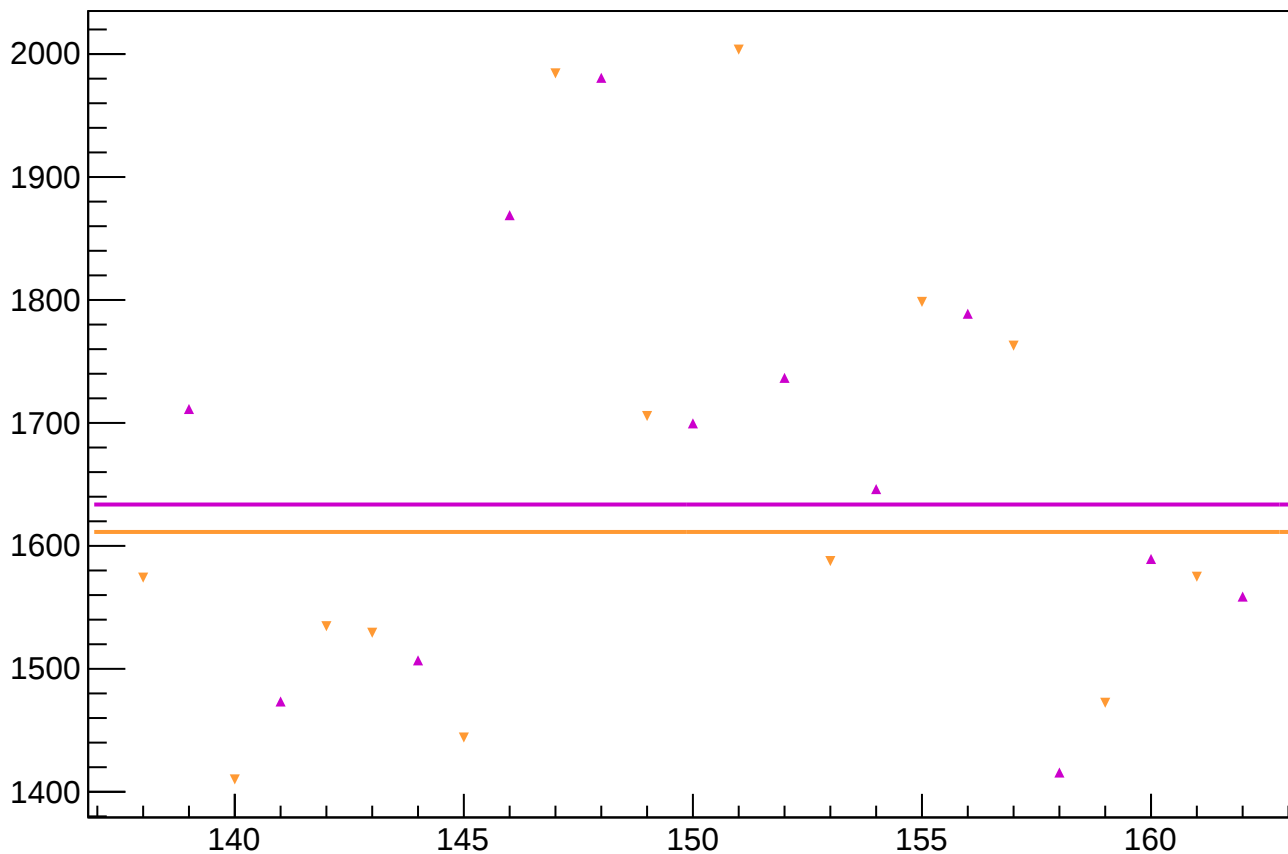
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -341.581+/-524.140  $\chi^2/\text{NDF}$ :18.5/11

Out: -990.951+/-519.670  $\chi^2/\text{NDF}$ :21.5/12

All: -669.047+/-369.032  $\chi^2/\text{NDF}$ : 40.8/24

asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1611.332+/-0.367  $\chi^2/\text{NDF}$ :224670.3/12

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

Left In: 1633.647+/-0.371  $\chi^2/\text{NDF}$ :174508.2/11

Left: 1622.394+/-0.261  $\chi^2/\text{NDF}$ : 401006.7/24

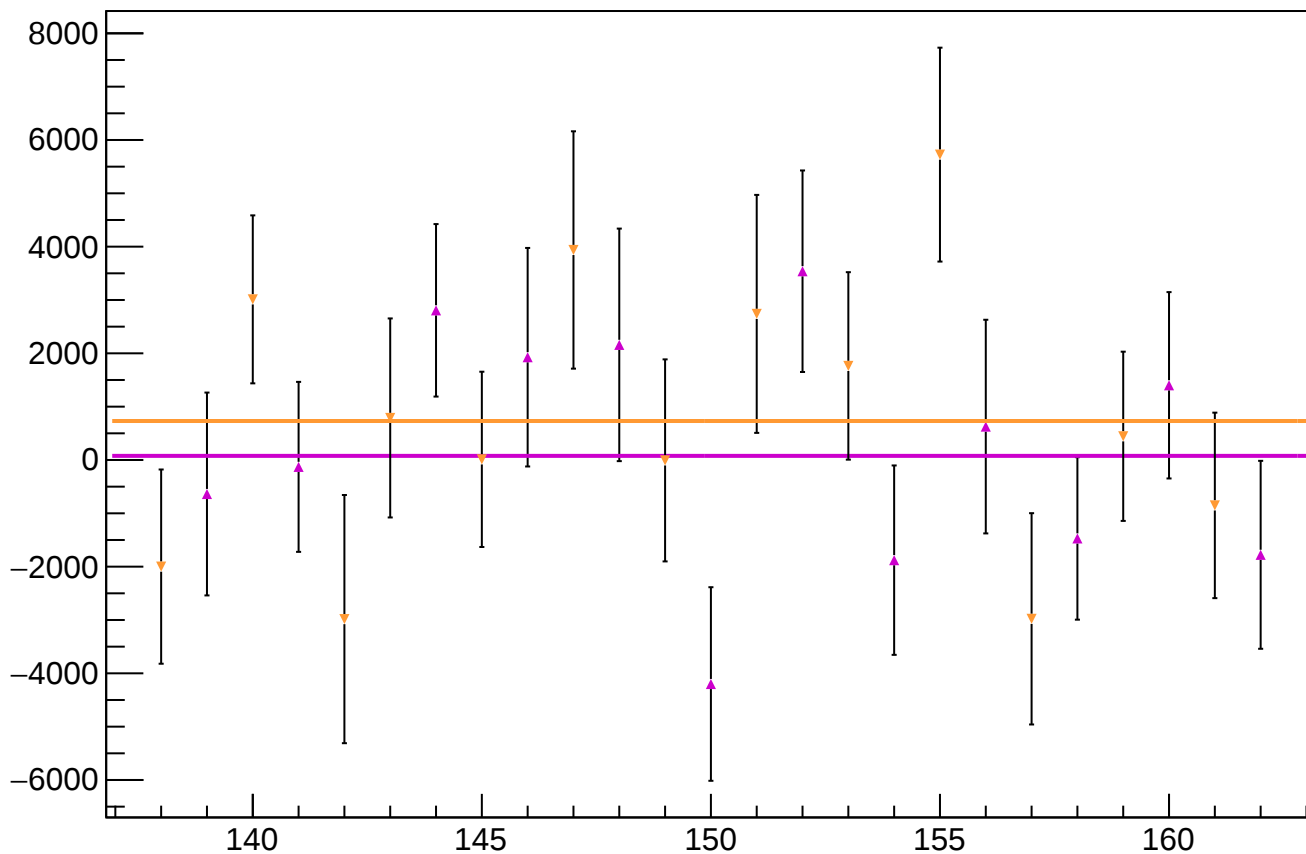
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1633.647+/-0.371  $\chi^2/\text{NDF}$ :174508.2/11

Out: 1611.332+/-0.367  $\chi^2/\text{NDF}$ :224670.3/12

All: 1622.394+/-0.261  $\chi^2/\text{NDF}$ : 401006.7/24

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 730.866+/-514.070  $\chi^2/\text{NDF}$ : 21.0/12

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

Left In: 77.282+/-517.635  $\chi^2/\text{NDF}$ : 17.6/11

Left: 406.332+/-364.756  $\chi^2/\text{NDF}$ : 39.5/24

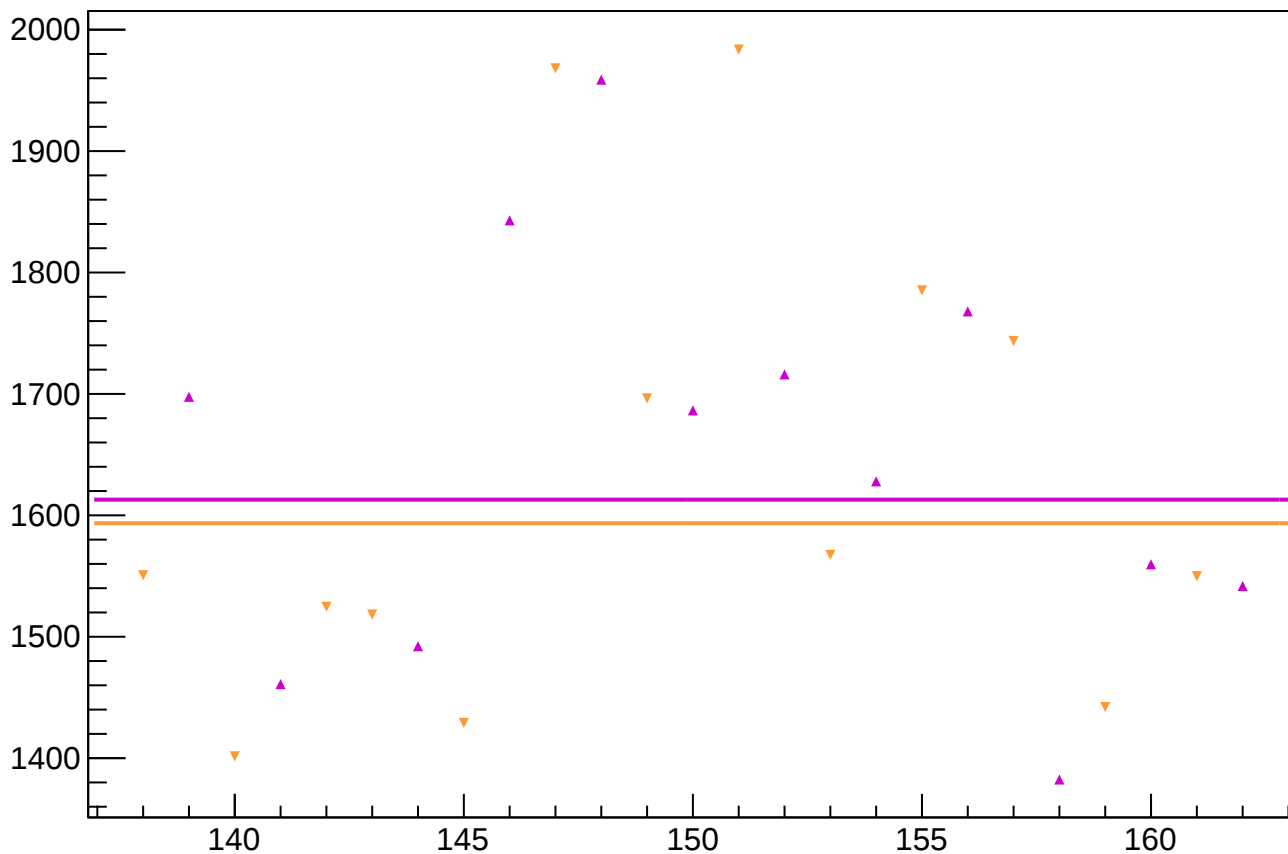
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 77.282+/-517.635  $\chi^2/\text{NDF}$ : 17.6/11

Out: 730.866+/-514.070  $\chi^2/\text{NDF}$ : 21.0/12

All: 406.332+/-364.756  $\chi^2/\text{NDF}$ : 39.5/24

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1593.536+/-0.364  $\chi^2/\text{NDF}$ :229307.2/12

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

Left In: 1612.939+/-0.366  $\chi^2/\text{NDF}$ :181148.3/11

Left: 1603.170+/-0.258  $\chi^2/\text{NDF}$ : 411870.3/24

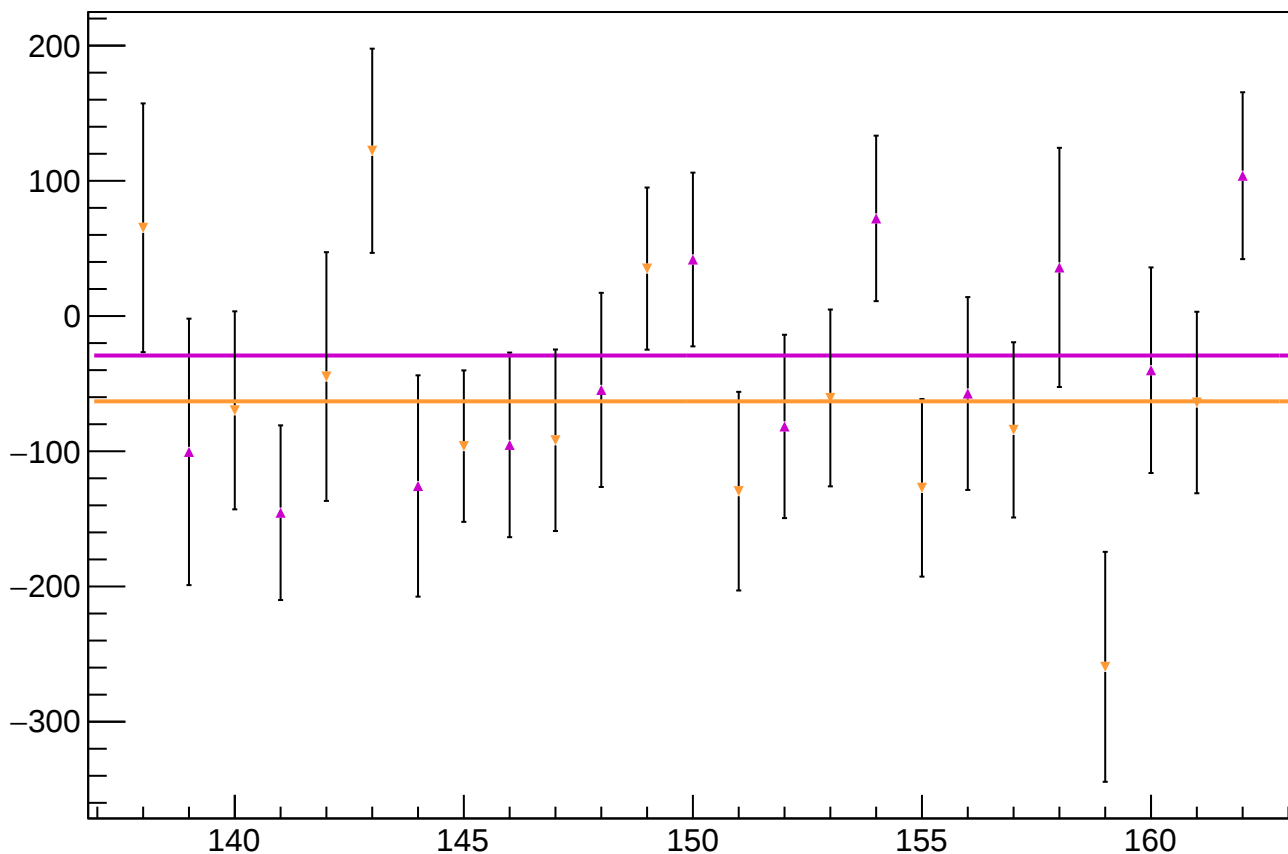
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1612.939+/-0.366  $\chi^2/\text{NDF}$ :181148.3/11

Out: 1593.536+/-0.364  $\chi^2/\text{NDF}$ :229307.2/12

All: 1603.170+/-0.258  $\chi^2/\text{NDF}$ : 411870.3/24

# dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-63.066 \pm 19.364$   $\chi^2/\text{NDF}: 18.4/12$

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

Left In:  $-29.192 \pm 20.464$   $\chi^2/\text{NDF}: 16.1/11$

Left:  $-47.064 \pm 14.065$   $\chi^2/\text{NDF}: 36.0/24$

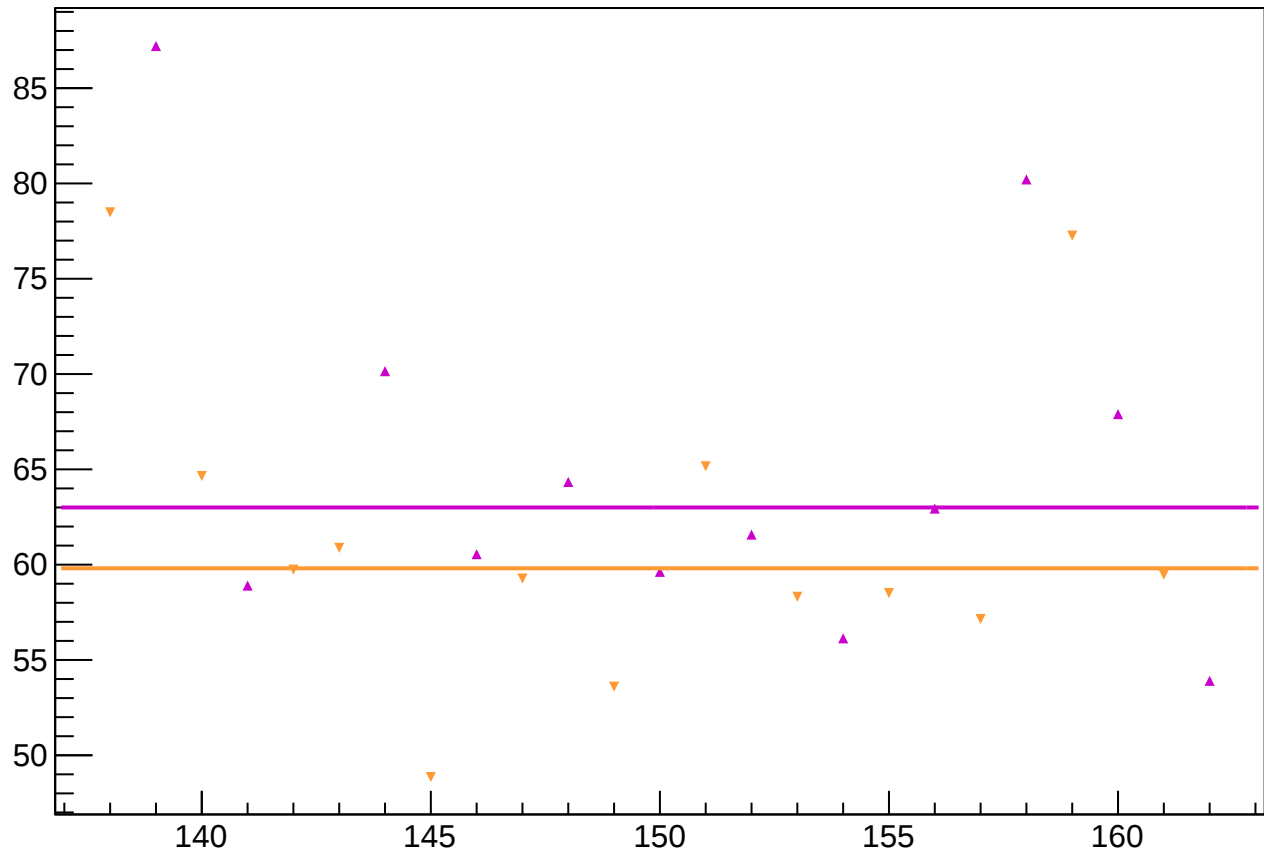
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-29.192 \pm 20.464$   $\chi^2/\text{NDF}: 16.1/11$

Out:  $-63.066 \pm 19.364$   $\chi^2/\text{NDF}: 18.4/12$

All:  $-47.064 \pm 14.065$   $\chi^2/\text{NDF}: 36.0/24$

dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 59.809+/-0.014  $\chi^2/\text{NDF}$ :289704.7/12

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

Left In: 63.001+/-0.014  $\chi^2/\text{NDF}$ :306422.2/11

Left: 61.317+/-0.010  $\chi^2/\text{NDF}$ : 621793.6/24

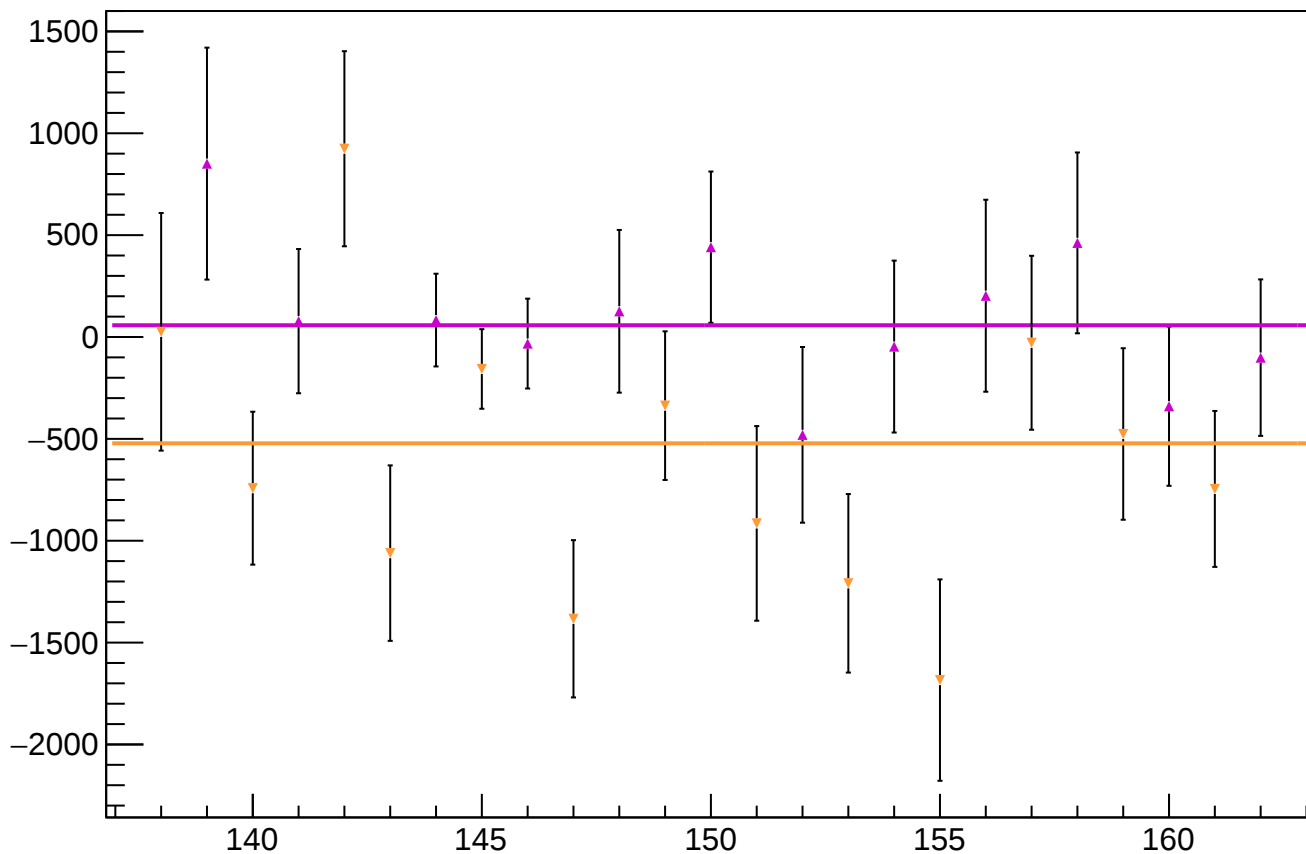
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 63.001+/-0.014  $\chi^2/\text{NDF}$ :306422.2/11

Out: 59.809+/-0.014  $\chi^2/\text{NDF}$ :289704.7/12

All: 61.317+/-0.010  $\chi^2/\text{NDF}$ : 621793.6/24

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -521.822+/-104.329  $\chi^2/\text{NDF}$ :31.0/12

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

Left In: 57.711+/-100.817  $\chi^2/\text{NDF}$ :7.0/11

Left: -222.137+/-72.498  $\chi^2/\text{NDF}$ : 53.9/24

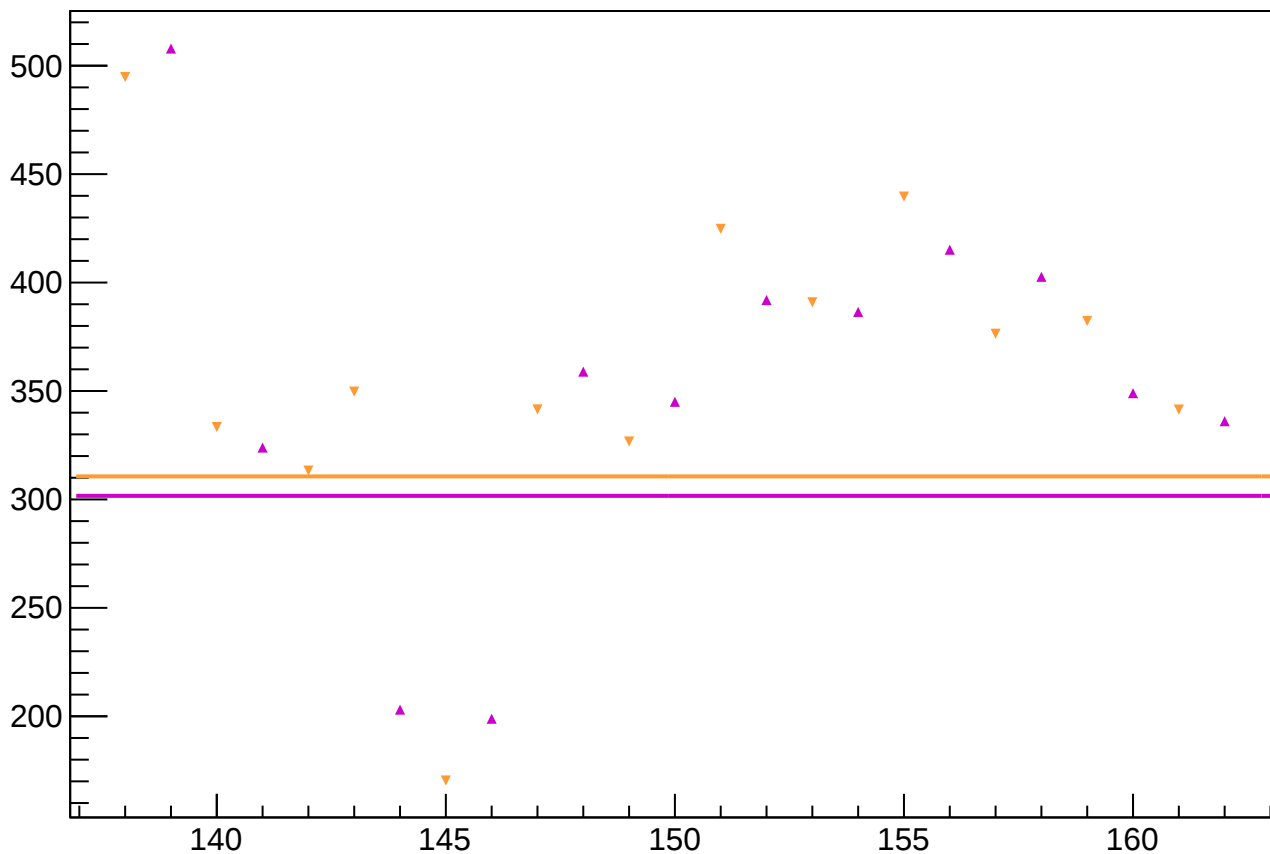
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 57.711+/-100.817  $\chi^2/\text{NDF}$ :7.0/11

Out: -521.822+/-104.329  $\chi^2/\text{NDF}$ :31.0/12

All: -222.137+/-72.498  $\chi^2/\text{NDF}$ : 53.9/24

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 310.625+/-0.074  $\chi^2/\text{NDF}$ :1707173.3/12

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

Left In: 301.652+/-0.071  $\chi^2/\text{NDF}$ :1582603.2/11

Left: 305.985+/-0.051  $\chi^2/\text{NDF}$ : 3297427.0/24

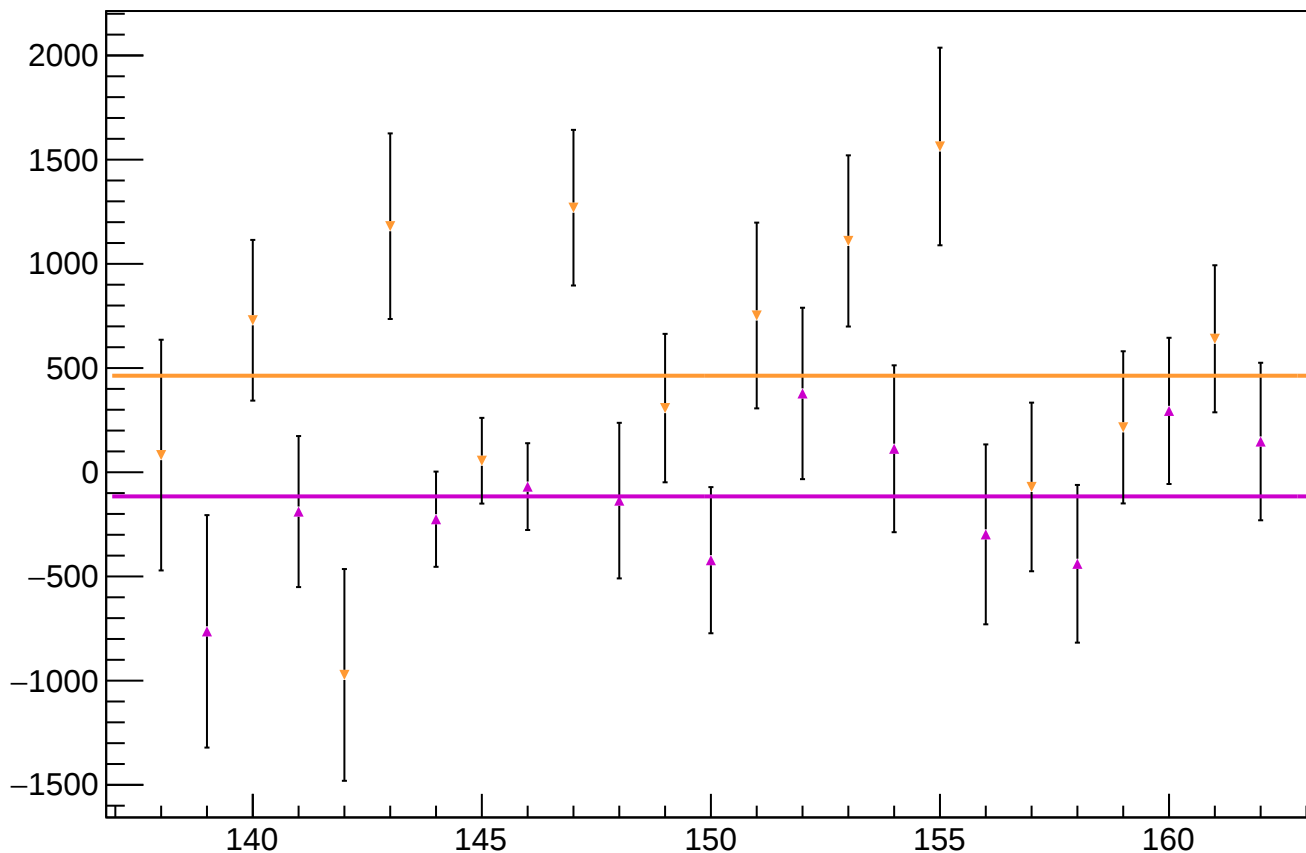
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 301.652+/-0.071  $\chi^2/\text{NDF}$ :1582603.2/11

Out: 310.625+/-0.074  $\chi^2/\text{NDF}$ :1707173.3/12

All: 305.985+/-0.051  $\chi^2/\text{NDF}$ : 3297427.0/24

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 463.247+/-102.785  $\chi^2/\text{NDF}$ : 31.1/12

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

Left In: -115.828+/-96.232  $\chi^2/\text{NDF}$ : 7.0/11

Left: 154.661+/-70.249  $\chi^2/\text{NDF}$ : 54.9/24

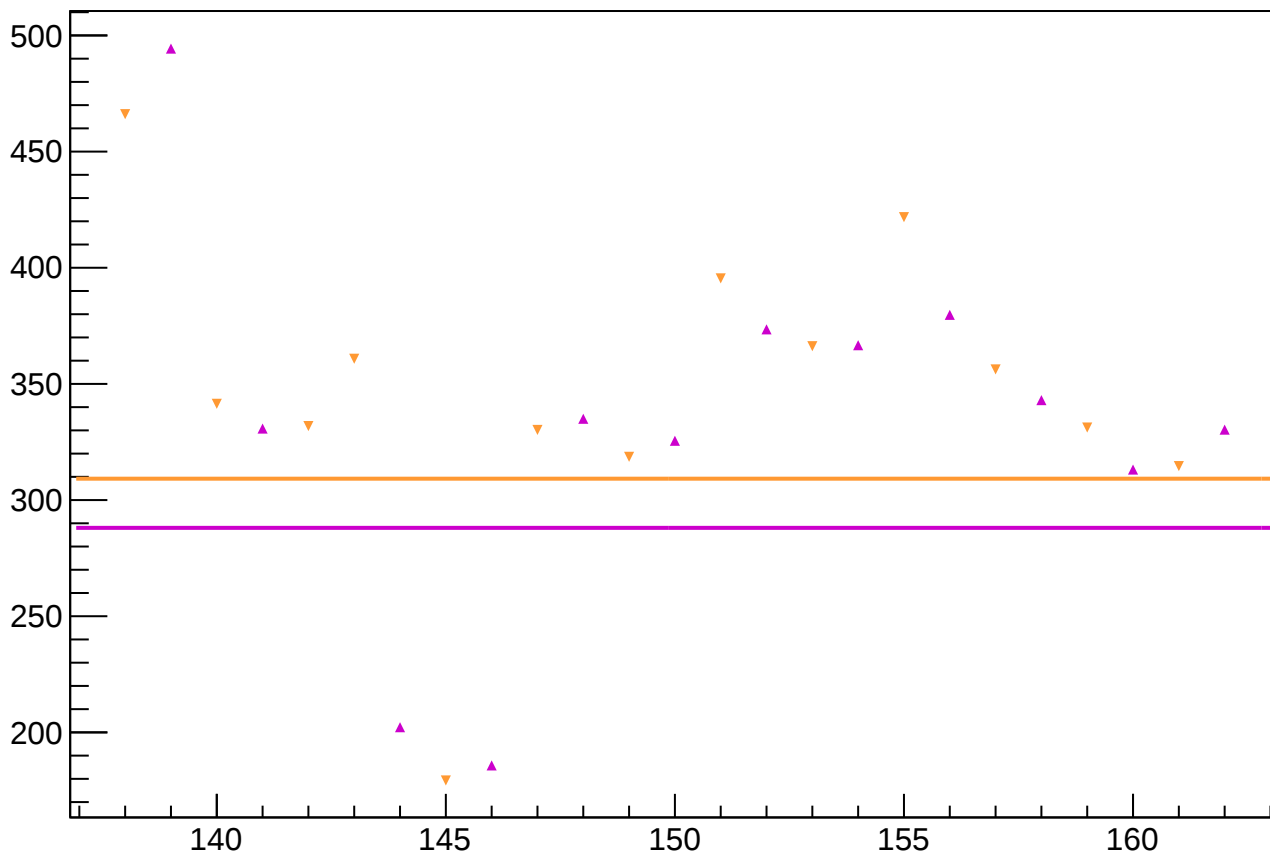
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -115.828+/-96.232  $\chi^2/\text{NDF}$ : 7.0/11

Out: 463.247+/-102.785  $\chi^2/\text{NDF}$ : 31.1/12

All: 154.661+/-70.249  $\chi^2/\text{NDF}$ : 54.9/24

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 309.205+/-0.073  $\chi^2/\text{NDF}$ :1271964.8/12

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

Left In: 288.041+/-0.068  $\chi^2/\text{NDF}$ :1451561.0/11

Left: 297.927+/-0.050  $\chi^2/\text{NDF}$ : 2768712.2/24

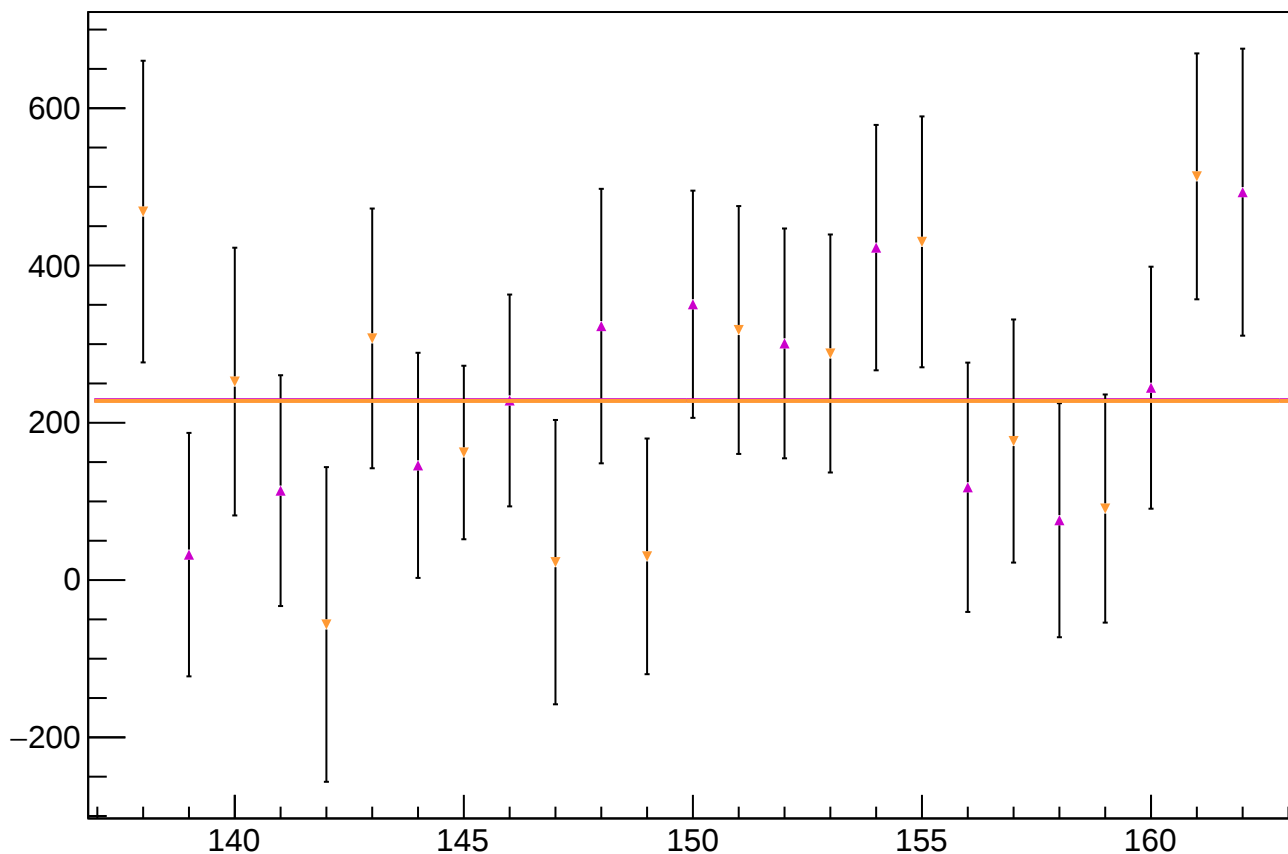
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 288.041+/-0.068  $\chi^2/\text{NDF}$ :1451561.0/11

Out: 309.205+/-0.073  $\chi^2/\text{NDF}$ :1271964.8/12

All: 297.927+/-0.050  $\chi^2/\text{NDF}$ : 2768712.2/24

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 227.796+/-43.267  $\chi^2/\text{NDF}$ :13.7/12

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

Left In: 228.736+/-43.938  $\chi^2/\text{NDF}$ :9.0/11

Left: 228.259+/-30.829  $\chi^2/\text{NDF}$ : 22.7/24

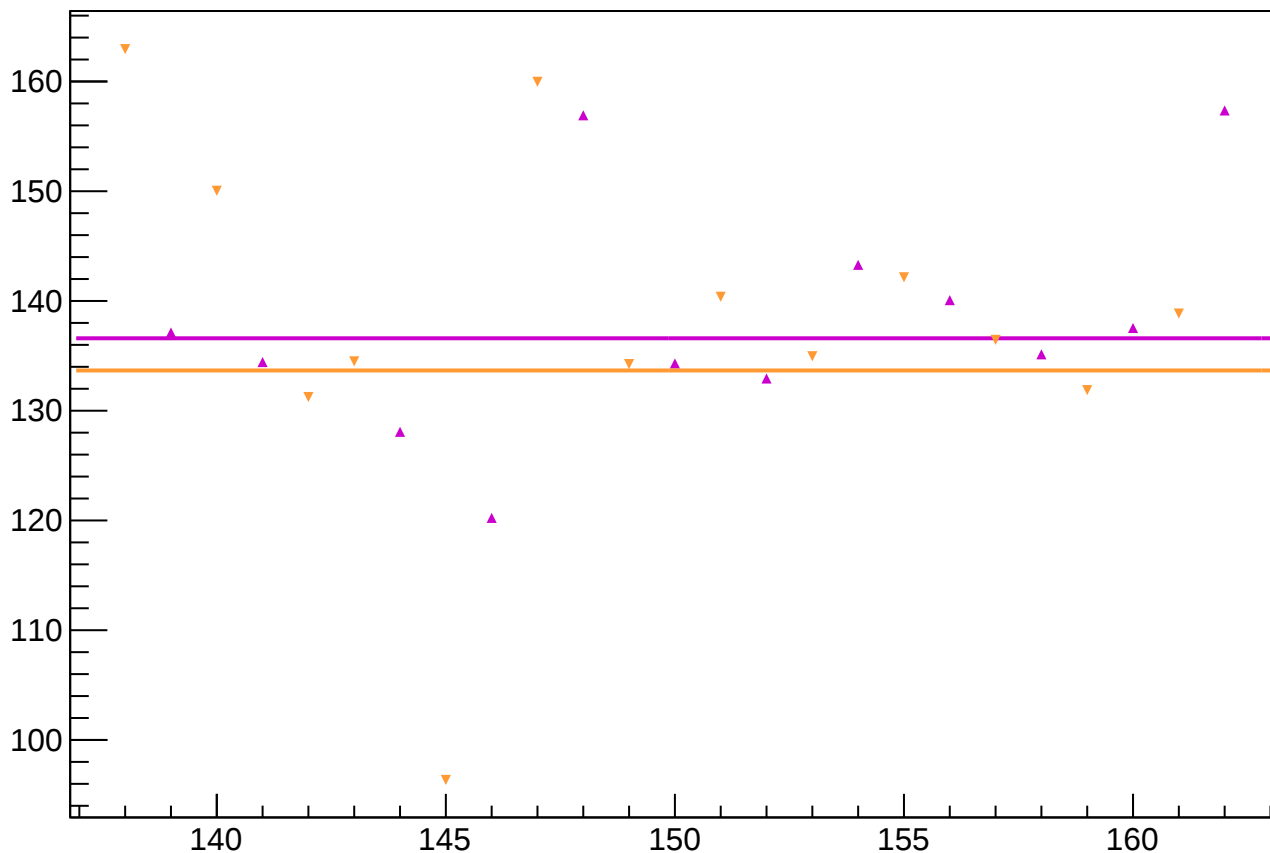
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 228.736+/-43.938  $\chi^2/\text{NDF}$ :9.0/11

Out: 227.796+/-43.267  $\chi^2/\text{NDF}$ :13.7/12

All: 228.259+/-30.829  $\chi^2/\text{NDF}$ : 22.7/24

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 133.668±/-0.031  $\chi^2$ /NDF:349204.0/12

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

Left In: 136.599±/-0.031  $\chi^2$ /NDF:96746.6/11

Left: 135.111±/-0.022  $\chi^2$ /NDF: 450469.7/24

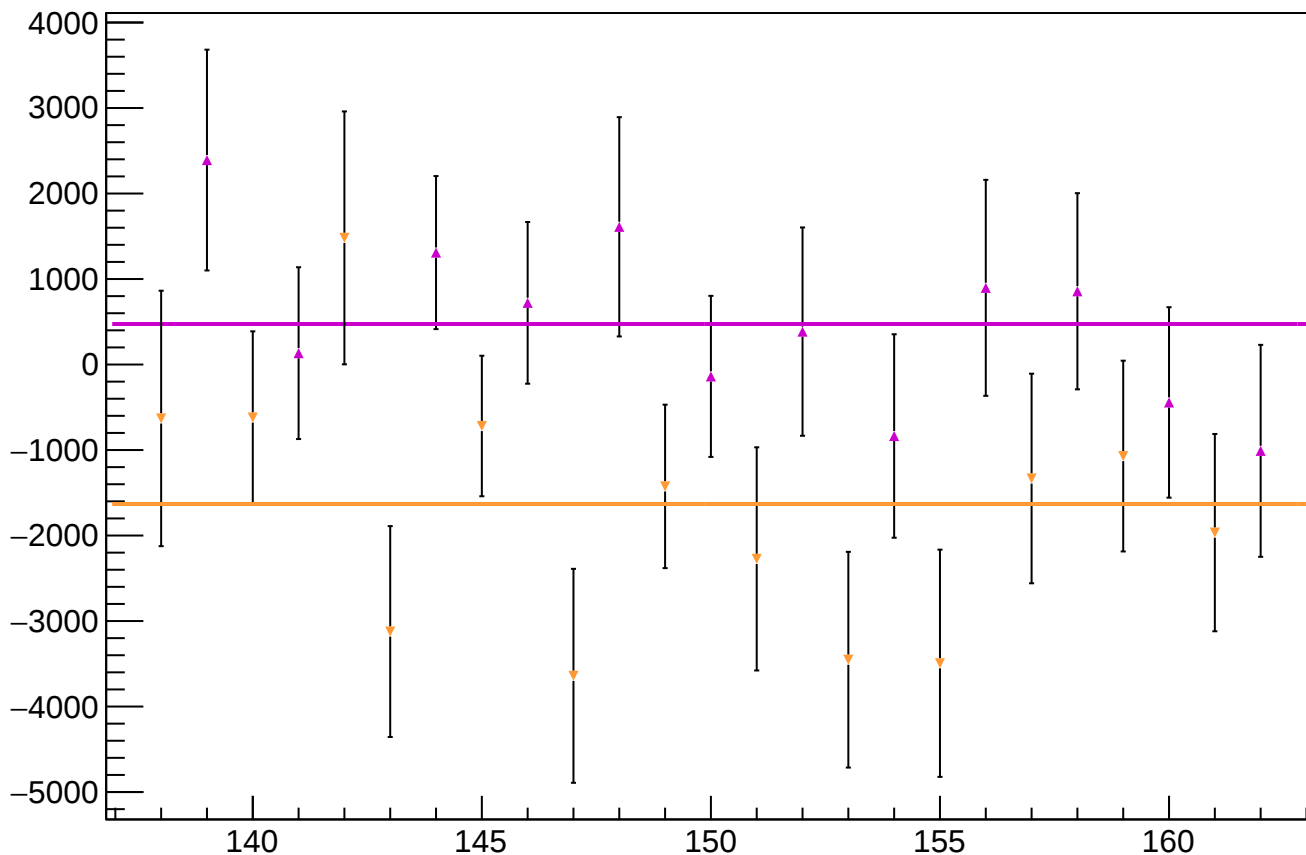
Right: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

In: 136.599±/-0.031  $\chi^2$ /NDF:96746.6/11

Out: 133.668±/-0.031  $\chi^2$ /NDF:349204.0/12

All: 135.111±/-0.022  $\chi^2$ /NDF: 450469.7/24

asym\_sam\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1631.182+/-320.037  $\chi^2/\text{NDF}$ :15.9/12

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

Left In: 473.805+/-317.559  $\chi^2/\text{NDF}$ :8.0/11

Left: -570.506+/-225.419  $\chi^2/\text{NDF}$ : 45.7/24

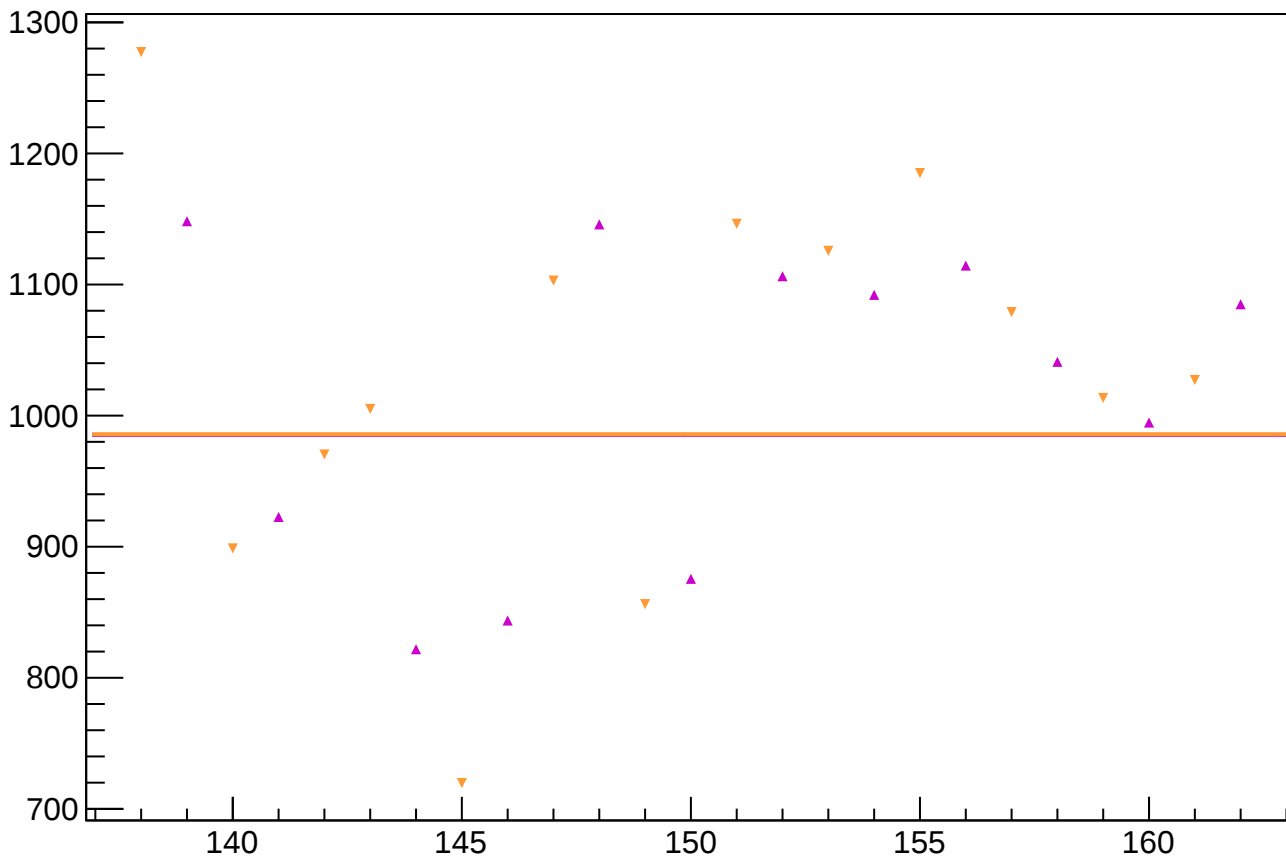
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 473.805+/-317.559  $\chi^2/\text{NDF}$ :8.0/11

Out: -1631.182+/-320.037  $\chi^2/\text{NDF}$ :15.9/12

All: -570.506+/-225.419  $\chi^2/\text{NDF}$ : 45.7/24

asym\_sam\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 985.790+/-0.226  $\chi^2/\text{NDF}$ : 471020.0/12

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

Left In: 985.309+/-0.225  $\chi^2/\text{NDF}$ : 284370.7/11

Left: 985.548+/-0.159  $\chi^2/\text{NDF}$ : 755393.0/24

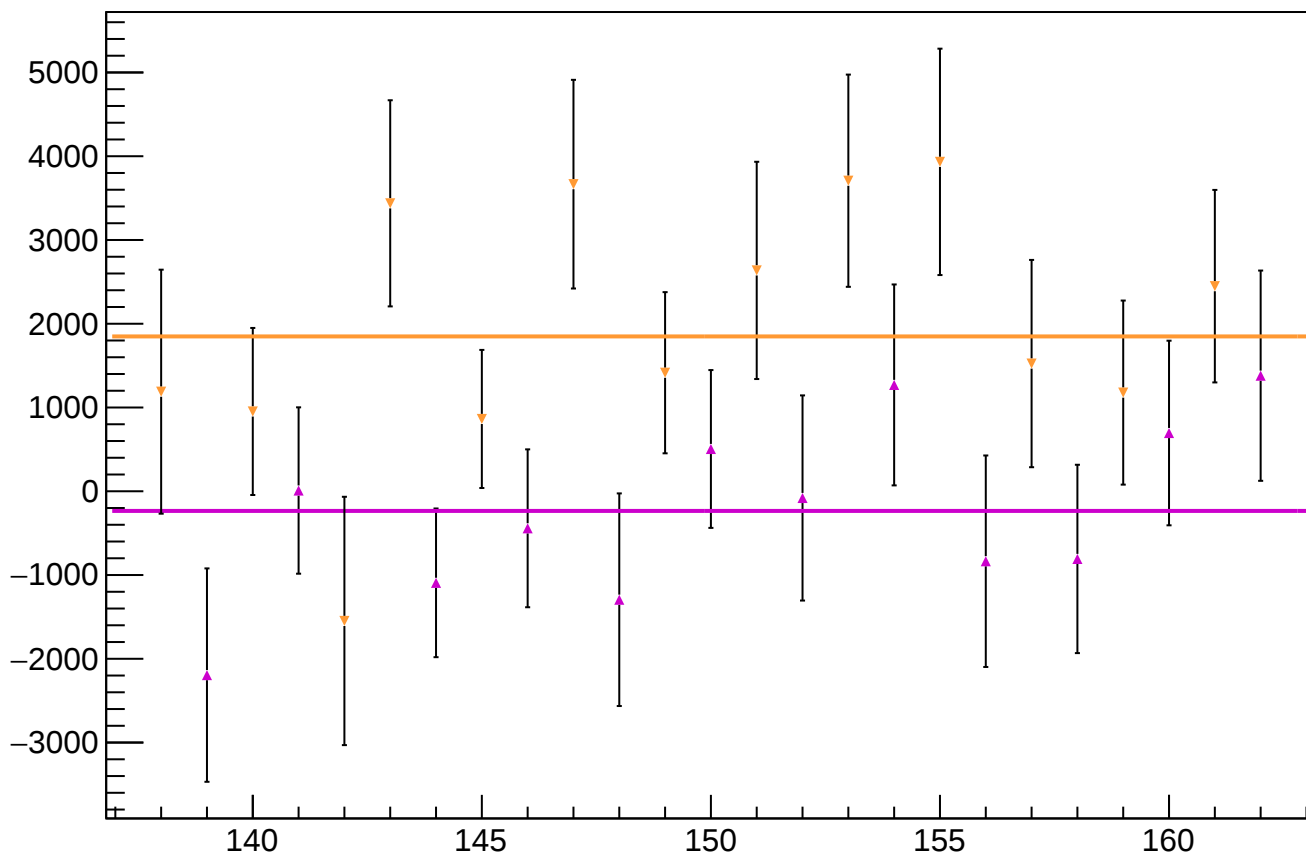
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 985.309+/-0.225  $\chi^2/\text{NDF}$ : 284370.7/11

Out: 985.790+/-0.226  $\chi^2/\text{NDF}$ : 471020.0/12

All: 985.548+/-0.159  $\chi^2/\text{NDF}$ : 755393.0/24

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 1848.641+/-319.562  $\chi^2/\text{NDF}$ : 17.3/12

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

Left In: -234.702+/-316.052  $\chi^2/\text{NDF}$ : 9.2/11

Left: 795.466+/-224.713  $\chi^2/\text{NDF}$ : 48.0/24

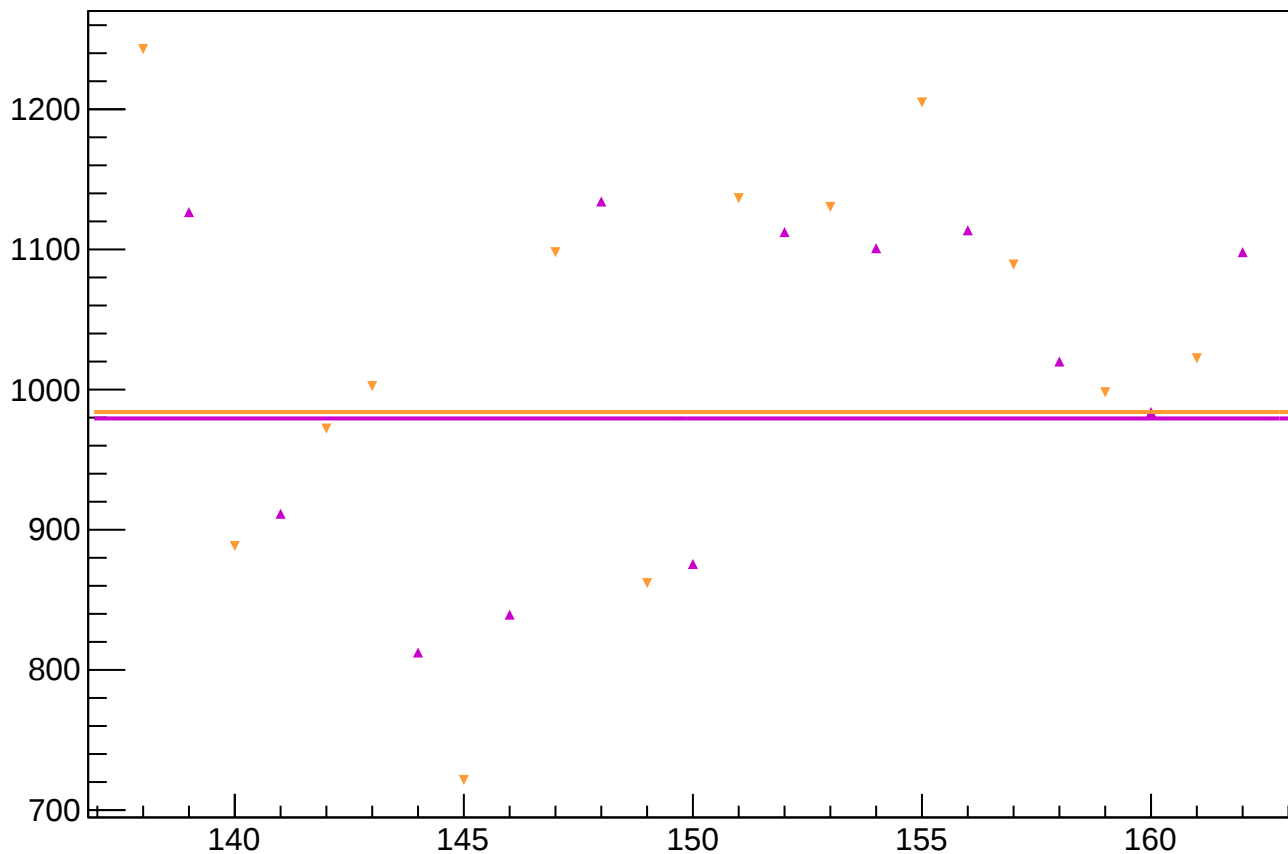
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -234.702+/-316.052  $\chi^2/\text{NDF}$ : 9.2/11

Out: 1848.641+/-319.562  $\chi^2/\text{NDF}$ : 17.3/12

All: 795.466+/-224.713  $\chi^2/\text{NDF}$ : 48.0/24

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 984.025+/-0.226  $\chi^2/\text{NDF}$ : 458769.6/12

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

Left In: 979.412+/-0.223  $\chi^2/\text{NDF}$ : 292239.5/11

Left: 981.693+/-0.159  $\chi^2/\text{NDF}$ : 751219.6/24

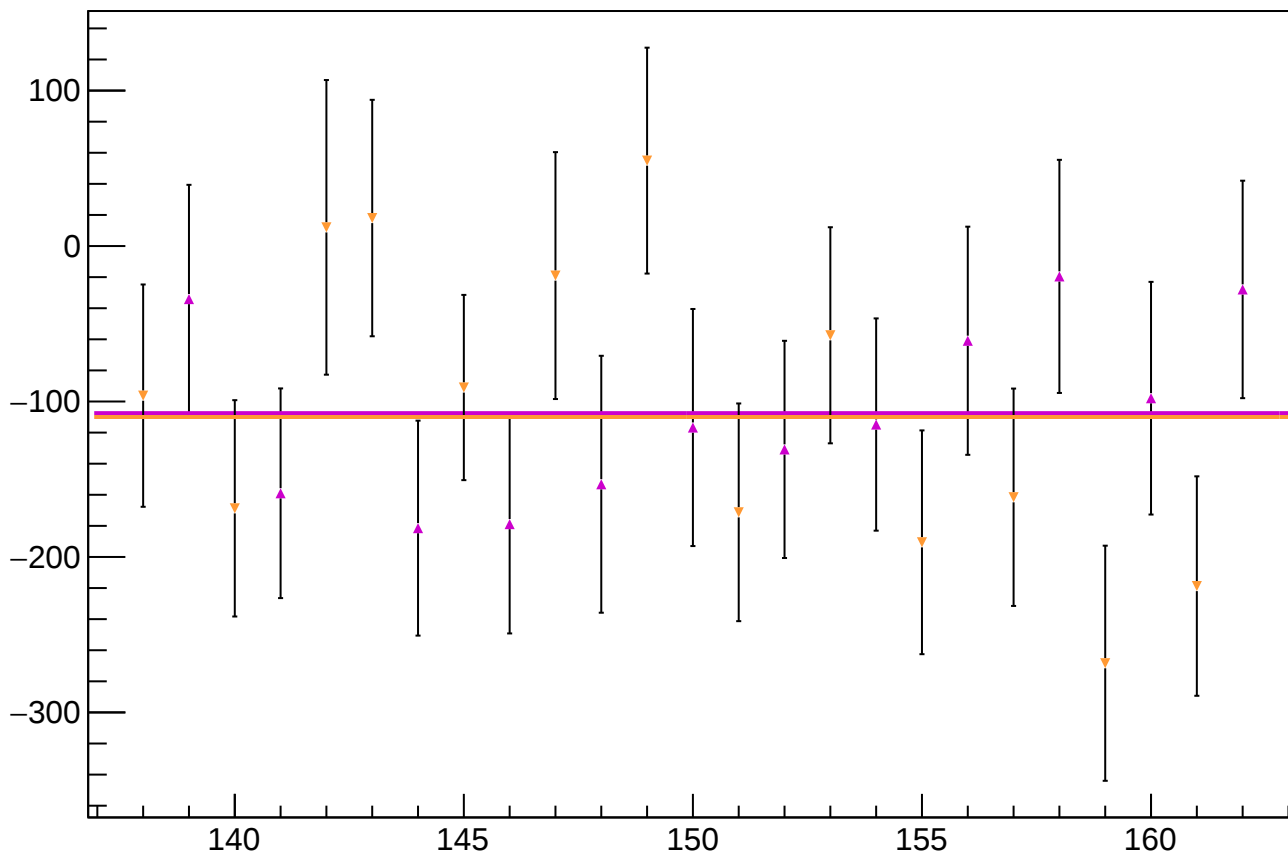
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 979.412+/-0.223  $\chi^2/\text{NDF}$ : 292239.5/11

Out: 984.025+/-0.226  $\chi^2/\text{NDF}$ : 458769.6/12

All: 981.693+/-0.159  $\chi^2/\text{NDF}$ : 751219.6/24

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -109.967 $\pm$ 19.998  $\chi^2$ /NDF:21.7/12

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

Left In: -107.489 $\pm$ 20.847  $\chi^2$ /NDF:7.3/11

Left: -108.780 $\pm$ 14.432  $\chi^2$ /NDF: 29.0/24

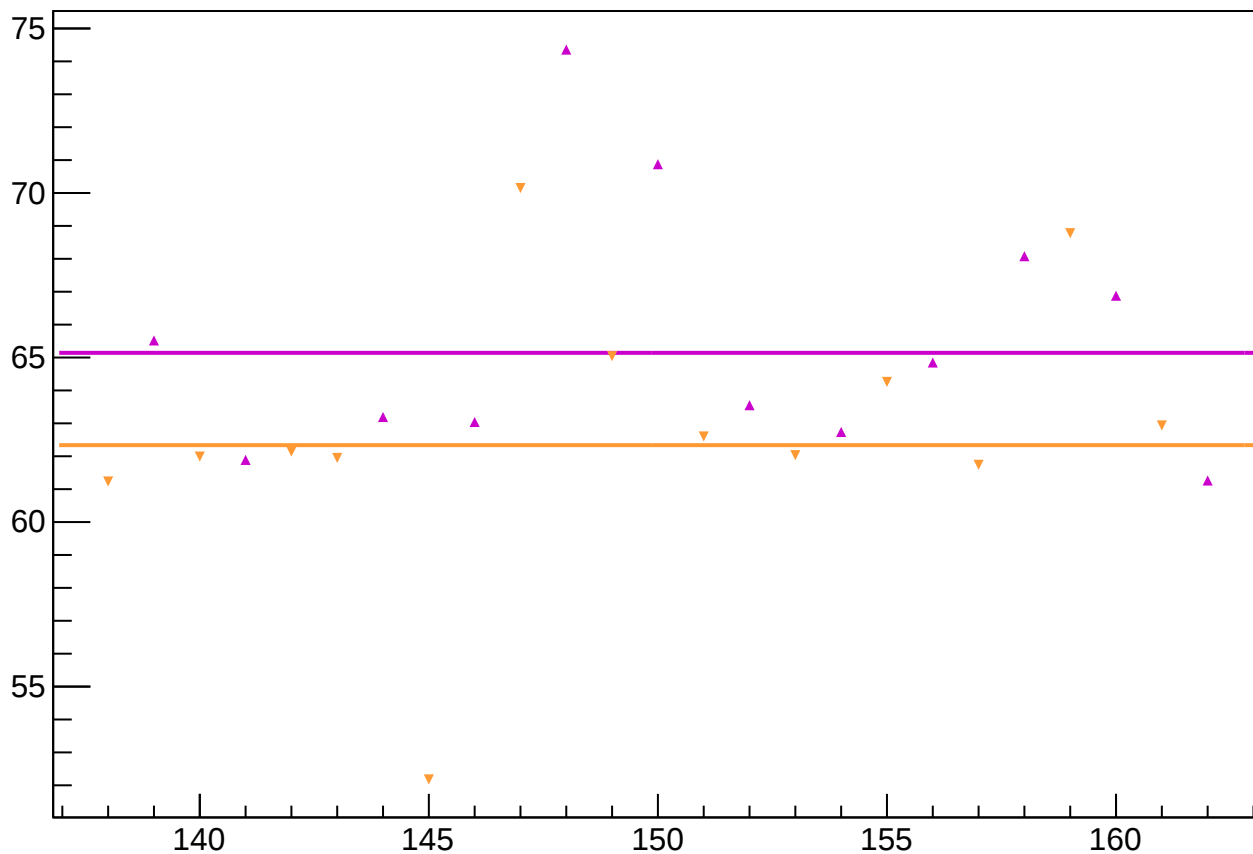
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -107.489 $\pm$ 20.847  $\chi^2$ /NDF:7.3/11

Out: -109.967 $\pm$ 19.998  $\chi^2$ /NDF:21.7/12

All: -108.780 $\pm$ 14.432  $\chi^2$ /NDF: 29.0/24

dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 62.337 $\pm$ 0.014  $\chi^2/NDF$ :97158.7/12

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

Left In: 65.143 $\pm$ 0.015  $\chi^2/NDF$ :58108.1/11

Left: 63.682 $\pm$ 0.010  $\chi^2/NDF$ : 174130.5/24

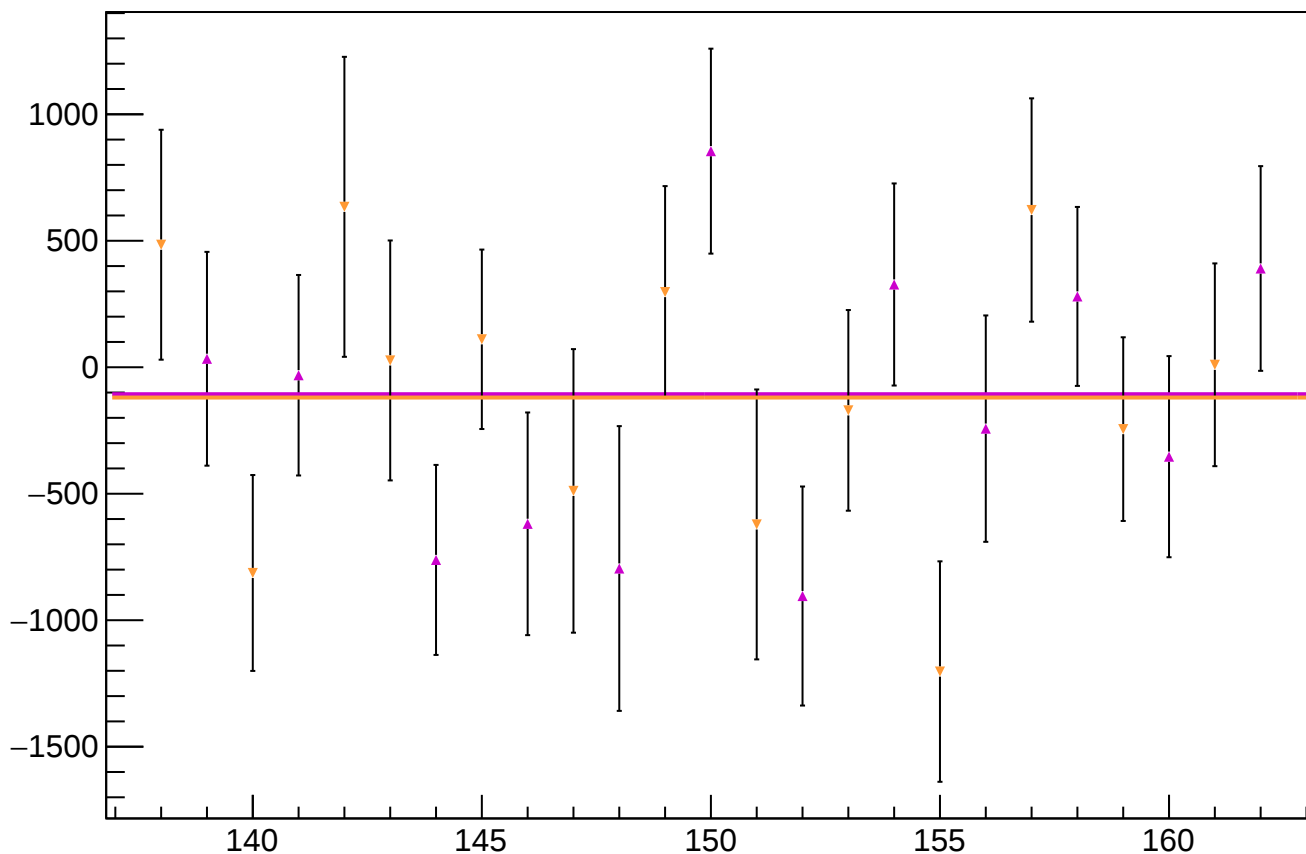
Right: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

In: 65.143 $\pm$ 0.015  $\chi^2/NDF$ :58108.1/11

Out: 62.337 $\pm$ 0.014  $\chi^2/NDF$ :97158.7/12

All: 63.682 $\pm$ 0.010  $\chi^2/NDF$ : 174130.5/24

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -119.725+/-119.772  $\chi^2/\text{NDF}$ :18.7/12

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

Left In: -106.570+/-119.106  $\chi^2/\text{NDF}$ :19.4/11

Left: -113.111+/-84.455  $\chi^2/\text{NDF}$ : 38.1/24

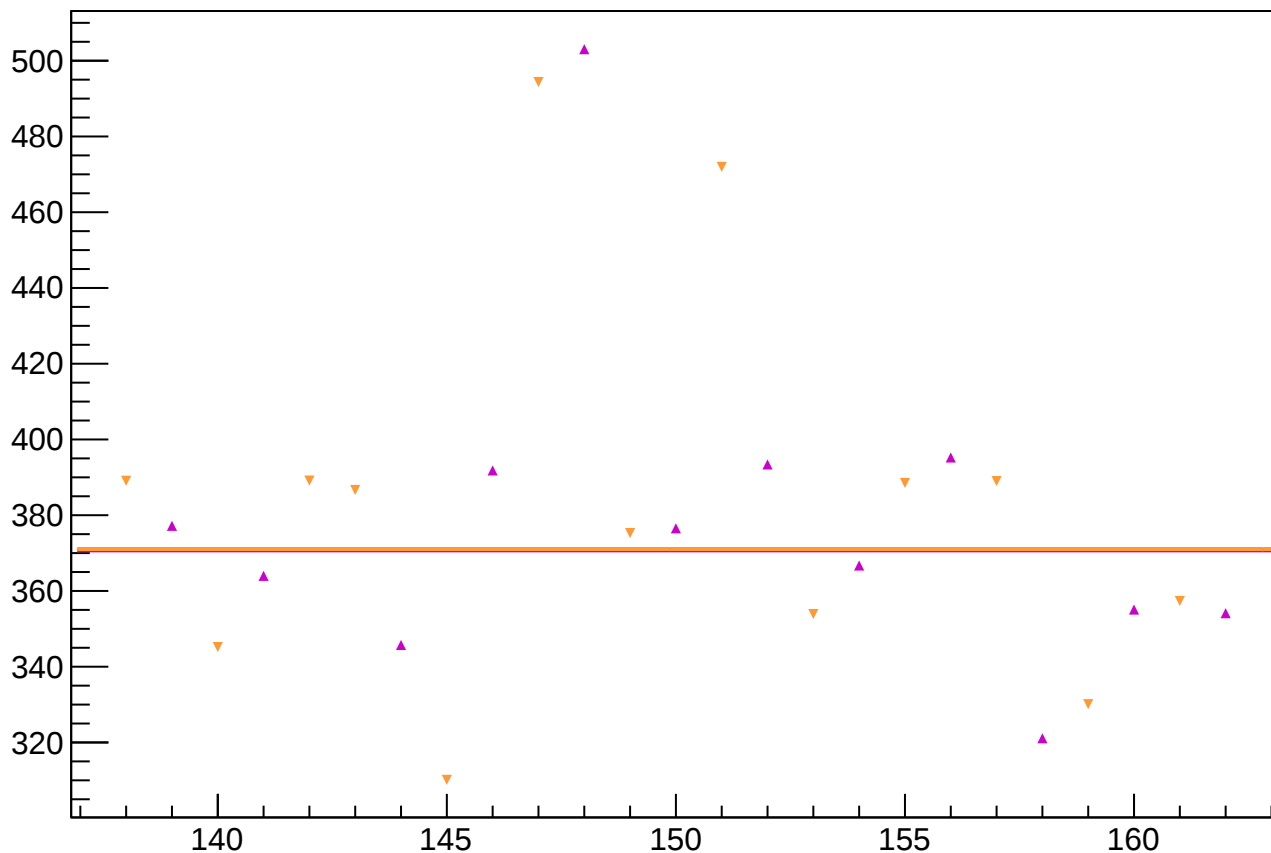
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -106.570+/-119.106  $\chi^2/\text{NDF}$ :19.4/11

Out: -119.725+/-119.772  $\chi^2/\text{NDF}$ :18.7/12

All: -113.111+/-84.455  $\chi^2/\text{NDF}$ : 38.1/24

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 371.082+/-0.085  $\chi^2/\text{NDF}$ :281721.3/12

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

Left In: 370.724+/-0.084  $\chi^2/\text{NDF}$ :182946.6/11

Left: 370.902+/-0.060  $\chi^2/\text{NDF}$ : 464676.8/24

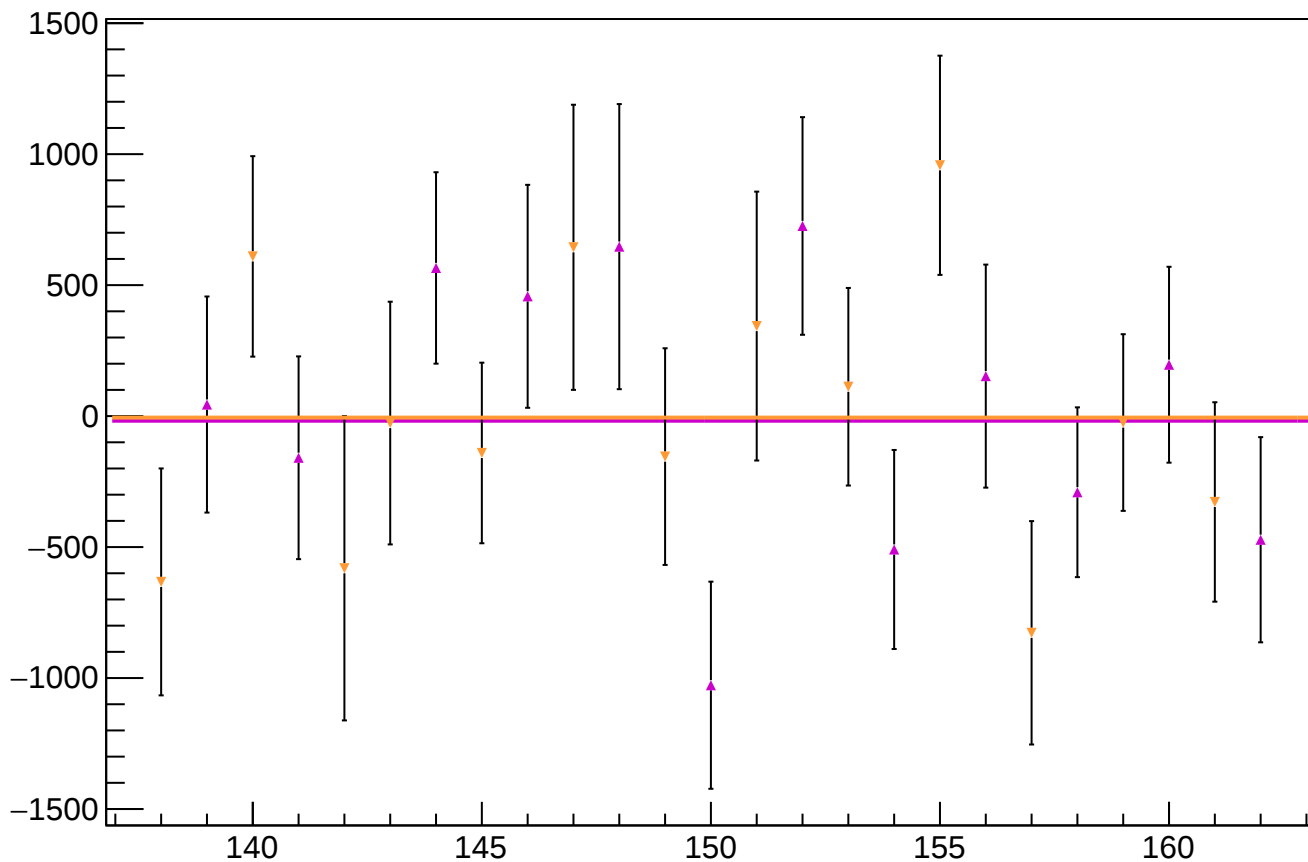
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 370.724+/-0.084  $\chi^2/\text{NDF}$ :182946.6/11

Out: 371.082+/-0.085  $\chi^2/\text{NDF}$ :281721.3/12

All: 370.902+/-0.060  $\chi^2/\text{NDF}$ : 464676.8/24

asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -5.776+/-115.352  $\chi^2/\text{NDF}$ :17.7/12

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

Left In: -17.592+/-114.129  $\chi^2/\text{NDF}$ :19.4/11

Left: -11.747+/-81.130  $\chi^2/\text{NDF}$ : 37.1/24

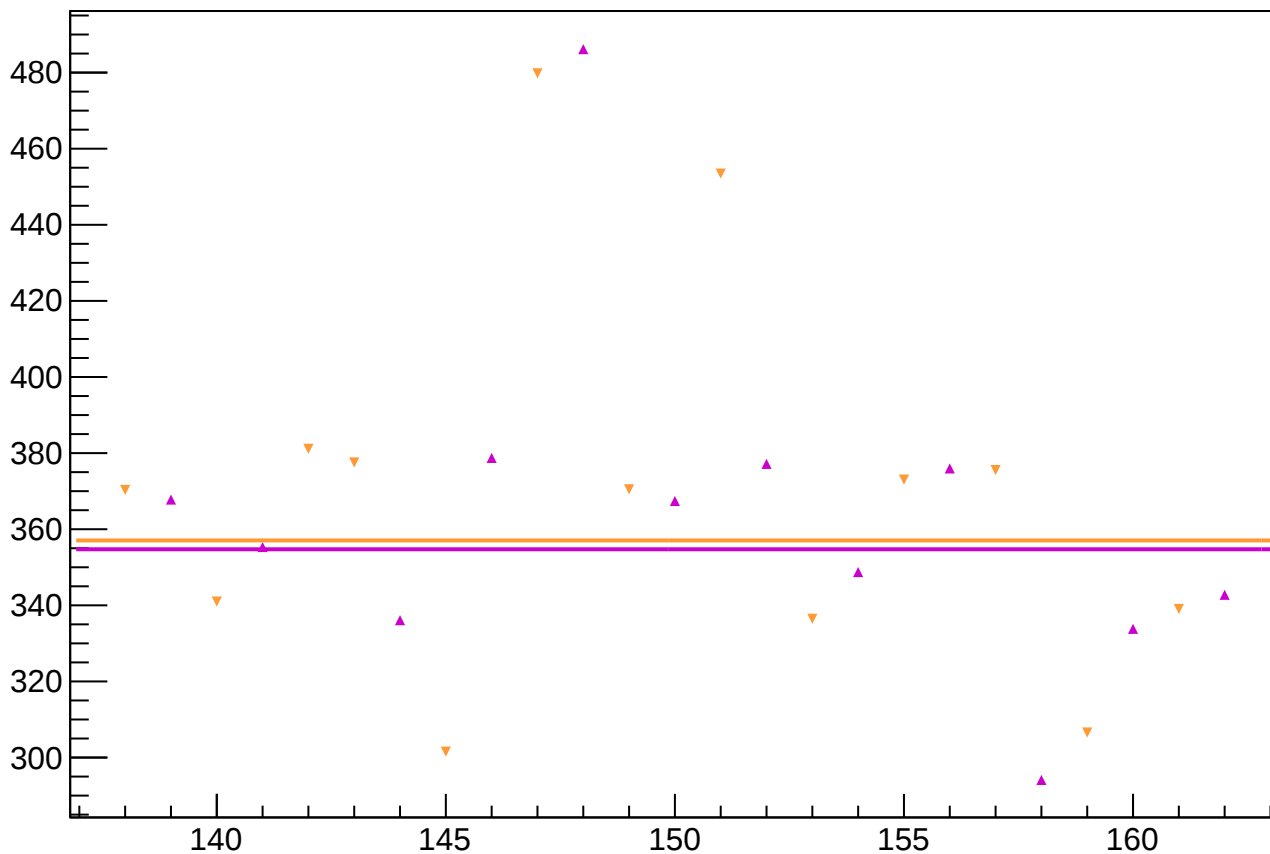
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.592+/-114.129  $\chi^2/\text{NDF}$ :19.4/11

Out: -5.776+/-115.352  $\chi^2/\text{NDF}$ :17.7/12

All: -11.747+/-81.130  $\chi^2/\text{NDF}$ : 37.1/24

asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 357.052+/-0.082  $\chi^2/\text{NDF}$ :300945.4/12

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

Left In: 354.731+/-0.081  $\chi^2/\text{NDF}$ :221689.6/11

Left: 355.879+/-0.057  $\chi^2/\text{NDF}$ : 523044.3/24

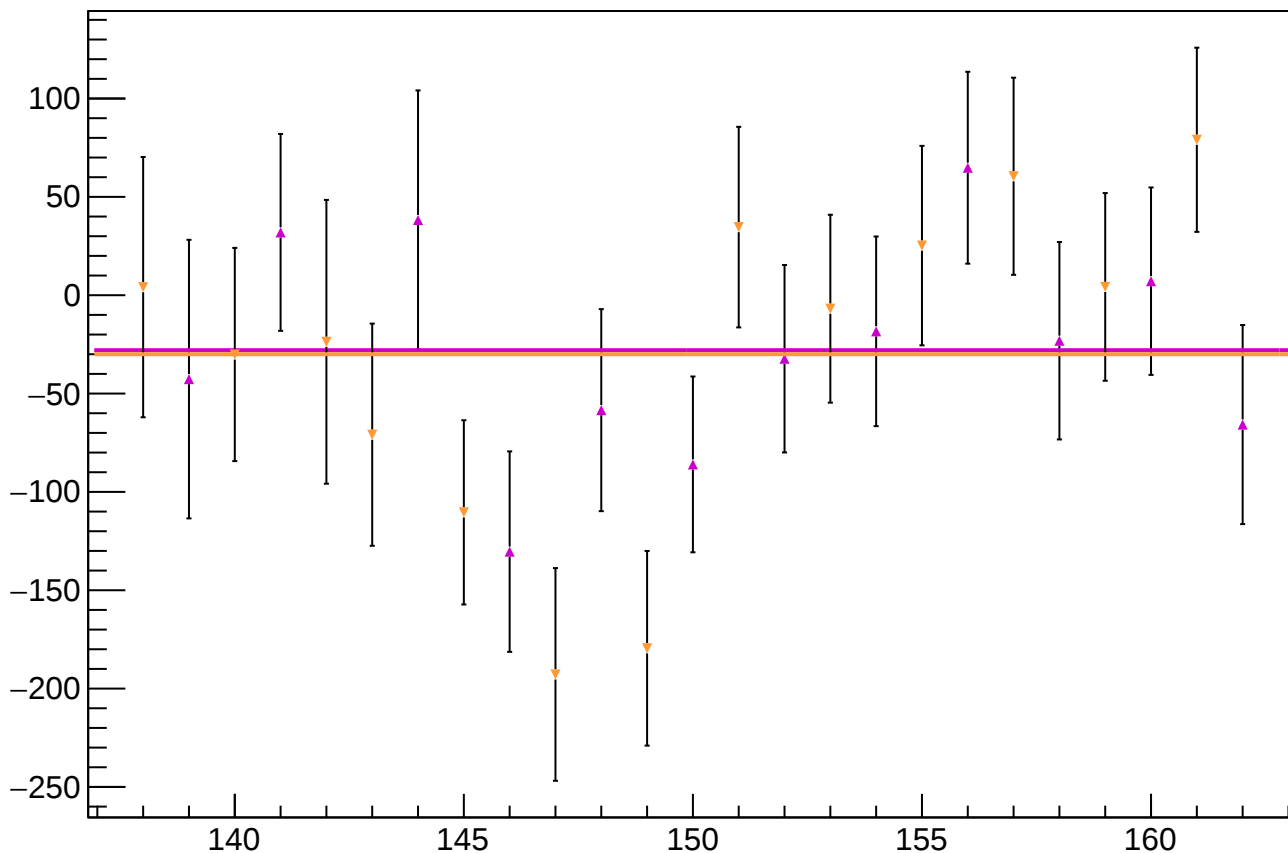
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 354.731+/-0.081  $\chi^2/\text{NDF}$ :221689.6/11

Out: 357.052+/-0.082  $\chi^2/\text{NDF}$ :300945.4/12

All: 355.879+/-0.057  $\chi^2/\text{NDF}$ : 523044.3/24

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-29.997 \pm 14.455$   $\chi^2/\text{NDF}: 34.2/12$

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

Left In:  $-27.958 \pm 14.724$   $\chi^2/\text{NDF}: 13.3/11$

Left:  $-28.996 \pm 10.315$   $\chi^2/\text{NDF}: 47.5/24$

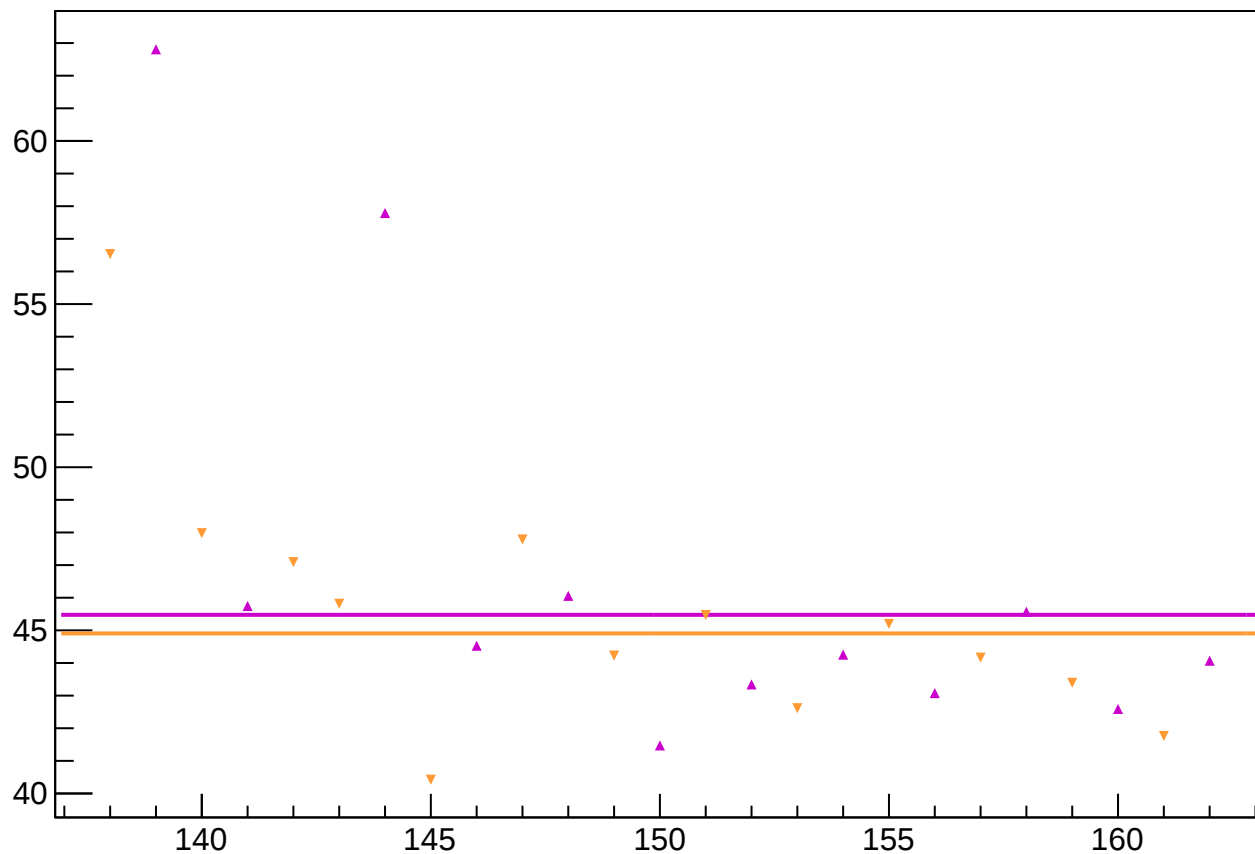
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-27.958 \pm 14.724$   $\chi^2/\text{NDF}: 13.3/11$

Out:  $-29.997 \pm 14.455$   $\chi^2/\text{NDF}: 34.2/12$

All:  $-28.996 \pm 10.315$   $\chi^2/\text{NDF}: 47.5/24$

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 44.906 +/- 0.010  $\chi^2$ /NDF: 111269.6/12

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

Left In: 45.476 +/- 0.010  $\chi^2$ /NDF: 225732.6/11

Left: 45.186 +/- 0.007  $\chi^2$ /NDF: 338527.0/24

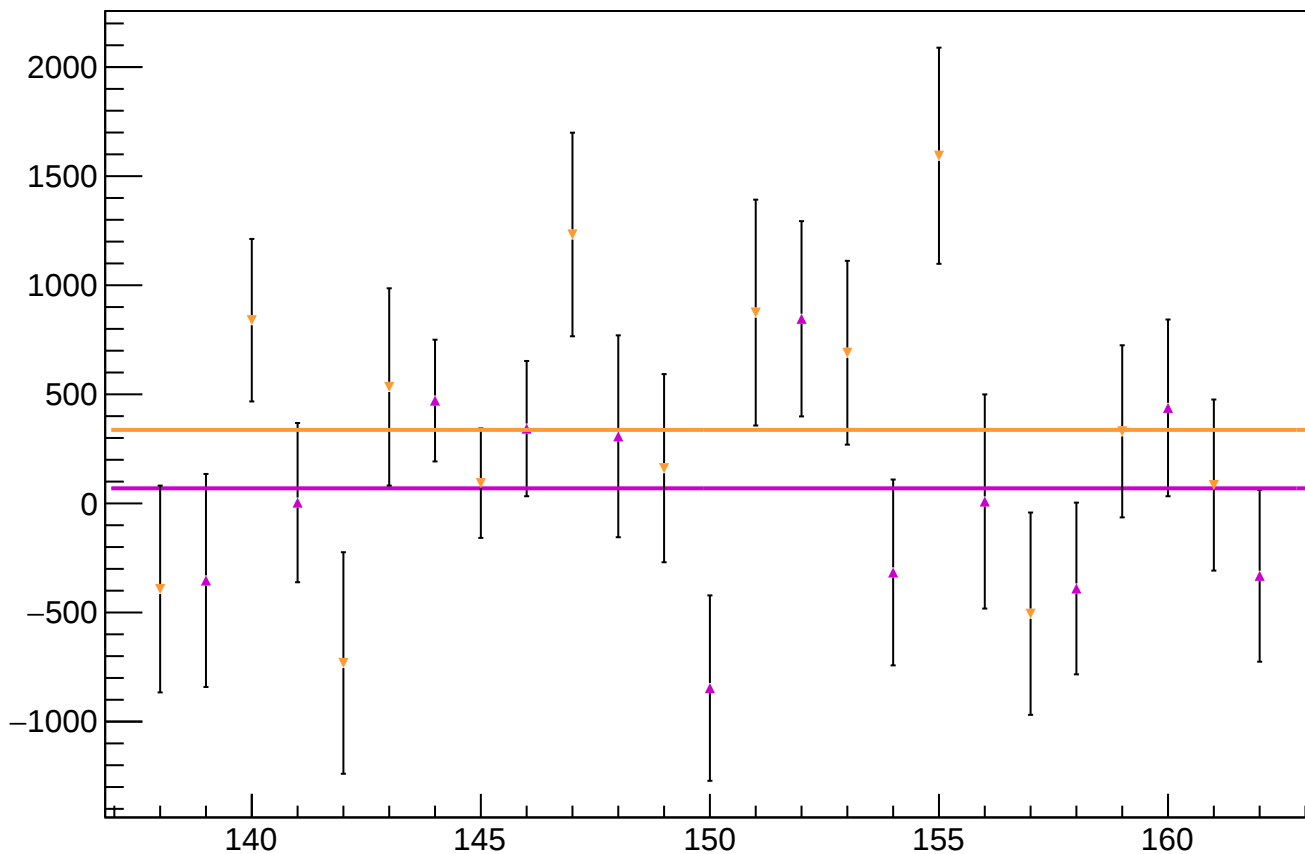
Right: 0.000 +/- 0.000  $\chi^2$ /NDF: 0.0/0

In: 45.476 +/- 0.010  $\chi^2$ /NDF: 225732.6/11

Out: 44.906 +/- 0.010  $\chi^2$ /NDF: 111269.6/12

All: 45.186 +/- 0.007  $\chi^2$ /NDF: 338527.0/24

asym\_sam\_15\_37\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 336.975+/-113.727  $\chi^2/\text{NDF}$ :25.5/12

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

Left In: 69.150+/-112.637  $\chi^2/\text{NDF}$ :15.6/11

Left: 201.773+/-80.029  $\chi^2/\text{NDF}$ : 44.0/24

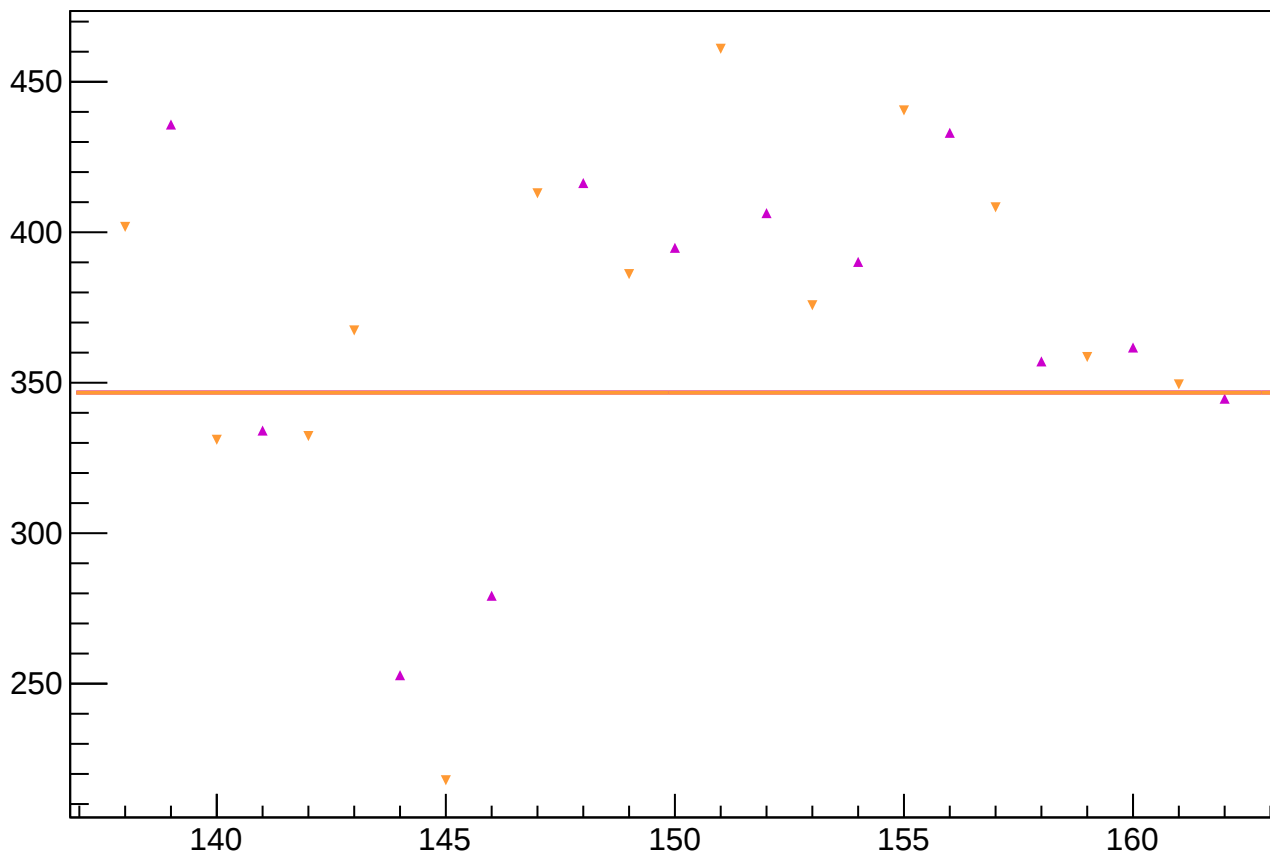
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 69.150+/-112.637  $\chi^2/\text{NDF}$ :15.6/11

Out: 336.975+/-113.727  $\chi^2/\text{NDF}$ :25.5/12

All: 201.773+/-80.029  $\chi^2/\text{NDF}$ : 44.0/24

asym\_sam\_15\_37\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 346.704+/-0.080  $\chi^2/\text{NDF}$ :836327.7/12

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

Left In: 346.759+/-0.080  $\chi^2/\text{NDF}$ :583708.1/11

Left: 346.732+/-0.057  $\chi^2/\text{NDF}$ : 1420036.0/24

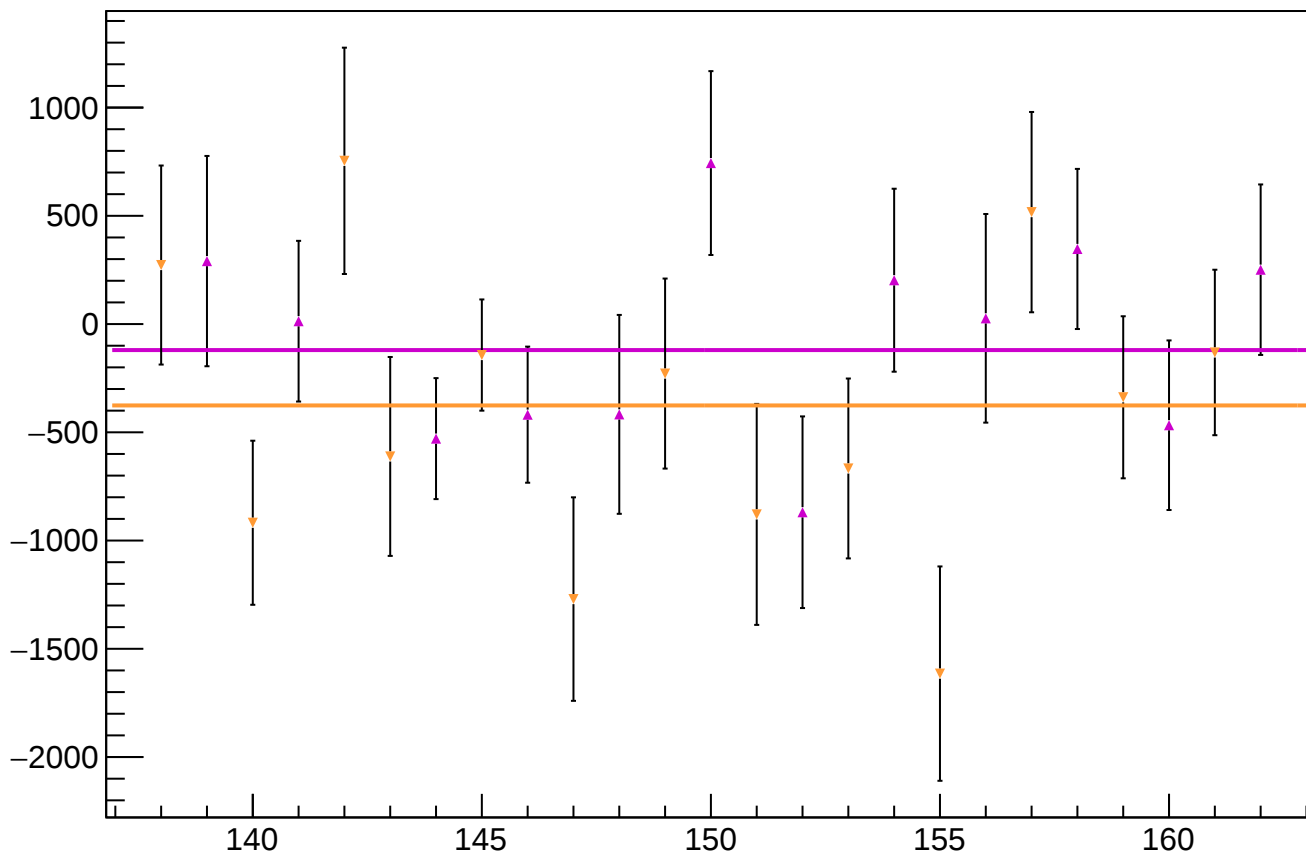
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 346.759+/-0.080  $\chi^2/\text{NDF}$ :583708.1/11

Out: 346.704+/-0.080  $\chi^2/\text{NDF}$ :836327.7/12

All: 346.732+/-0.057  $\chi^2/\text{NDF}$ : 1420036.0/24

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-375.892 \pm 113.712$   $\chi^2/\text{NDF}: 25.4/12$

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

Left In:  $-120.155 \pm 111.802$   $\chi^2/\text{NDF}: 15.3/11$

Left:  $-245.858 \pm 79.722$   $\chi^2/\text{NDF}: 43.2/24$

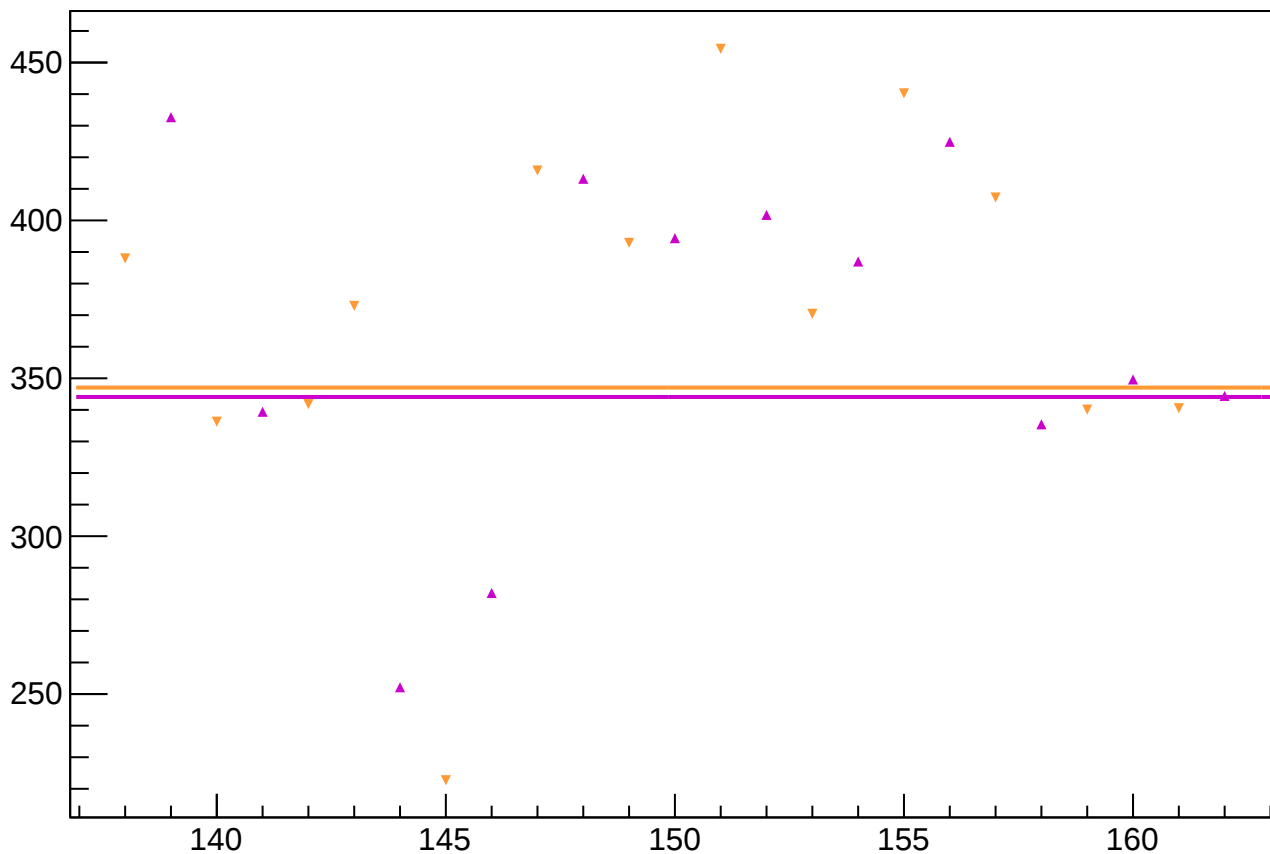
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-120.155 \pm 111.802$   $\chi^2/\text{NDF}: 15.3/11$

Out:  $-375.892 \pm 113.712$   $\chi^2/\text{NDF}: 25.4/12$

All:  $-245.858 \pm 79.722$   $\chi^2/\text{NDF}: 43.2/24$

asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 347.066+/-0.080  $\chi^2/\text{NDF}$ : 757963.3/12

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

Left In: 344.089+/-0.079  $\chi^2/\text{NDF}$ : 546995.5/11

Left: 345.552+/-0.056  $\chi^2/\text{NDF}$ : 1305656.0/24

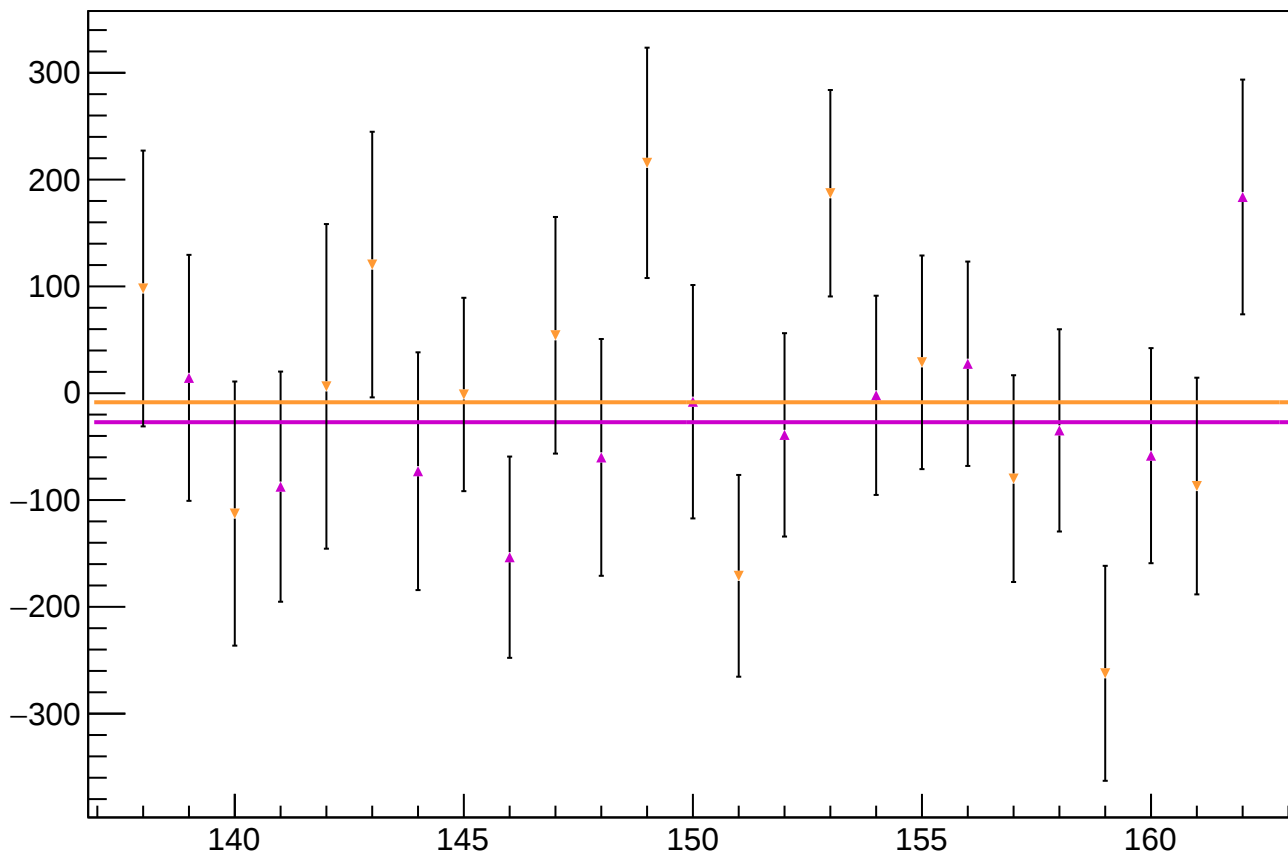
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 344.089+/-0.079  $\chi^2/\text{NDF}$ : 546995.5/11

Out: 347.066+/-0.080  $\chi^2/\text{NDF}$ : 757963.3/12

All: 345.552+/-0.056  $\chi^2/\text{NDF}$ : 1305656.0/24

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -8.461+/-29.556  $\chi^2/\text{NDF}$ :21.8/12

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

Left In: -27.126+/-29.519  $\chi^2/\text{NDF}$ :6.7/11

Left: -17.806+/-20.886  $\chi^2/\text{NDF}$ : 28.8/24

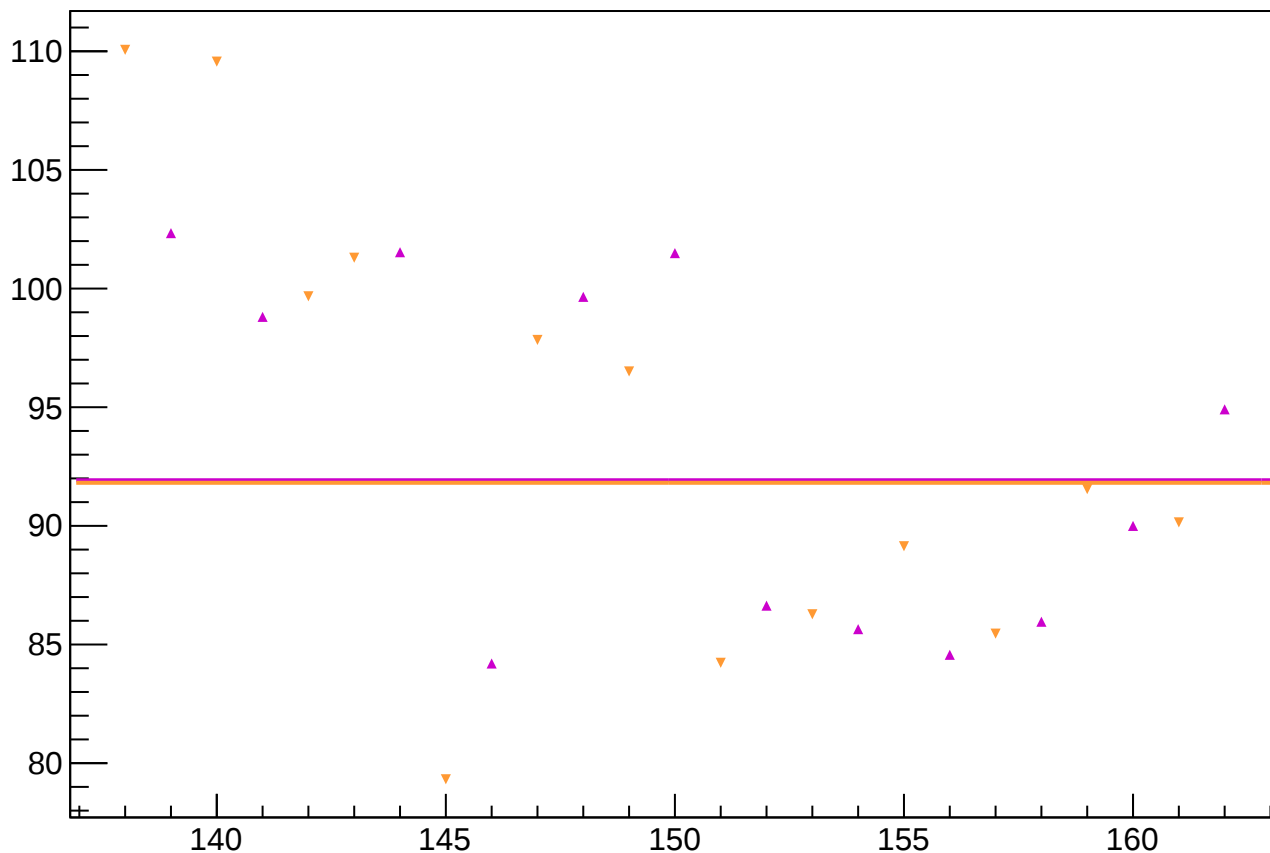
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -27.126+/-29.519  $\chi^2/\text{NDF}$ :6.7/11

Out: -8.461+/-29.556  $\chi^2/\text{NDF}$ :21.8/12

All: -17.806+/-20.886  $\chi^2/\text{NDF}$ : 28.8/24

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 91.815+/-0.021  $\chi^2/\text{NDF}$ :176016.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 91.922+/-0.021  $\chi^2/\text{NDF}$ :115112.7/11

Left: 91.869+/-0.015  $\chi^2/\text{NDF}$ : 291142.3/24

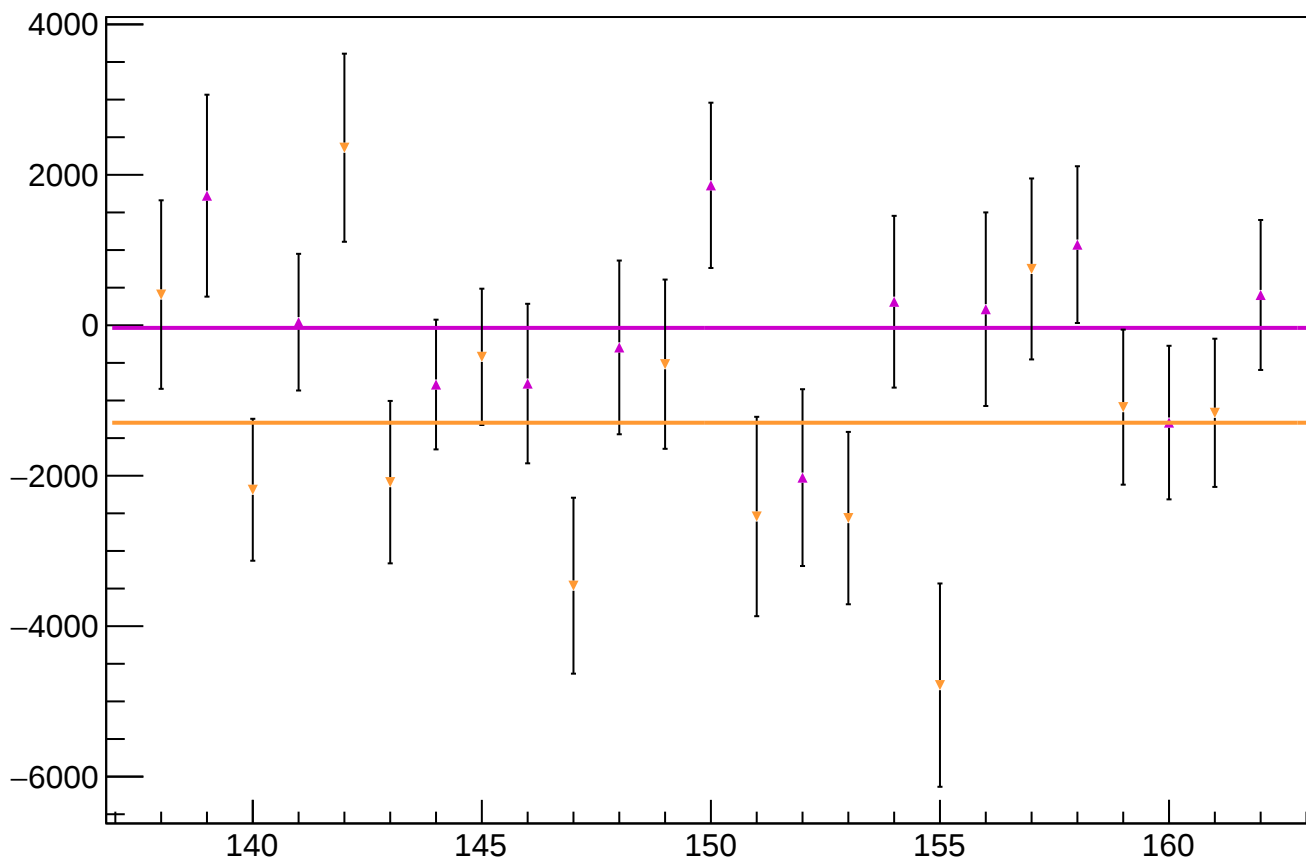
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 91.922+/-0.021  $\chi^2/\text{NDF}$ :115112.7/11

Out: 91.815+/-0.021  $\chi^2/\text{NDF}$ :176016.6/12

All: 91.869+/-0.015  $\chi^2/\text{NDF}$ : 291142.3/24

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1295.451+/-308.029  $\chi^2/\text{NDF}$ :28.4/12

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

Left In: -34.756+/-307.700  $\chi^2/\text{NDF}$ :11.8/11

Left: -664.428+/-217.693  $\chi^2/\text{NDF}$ : 48.6/24

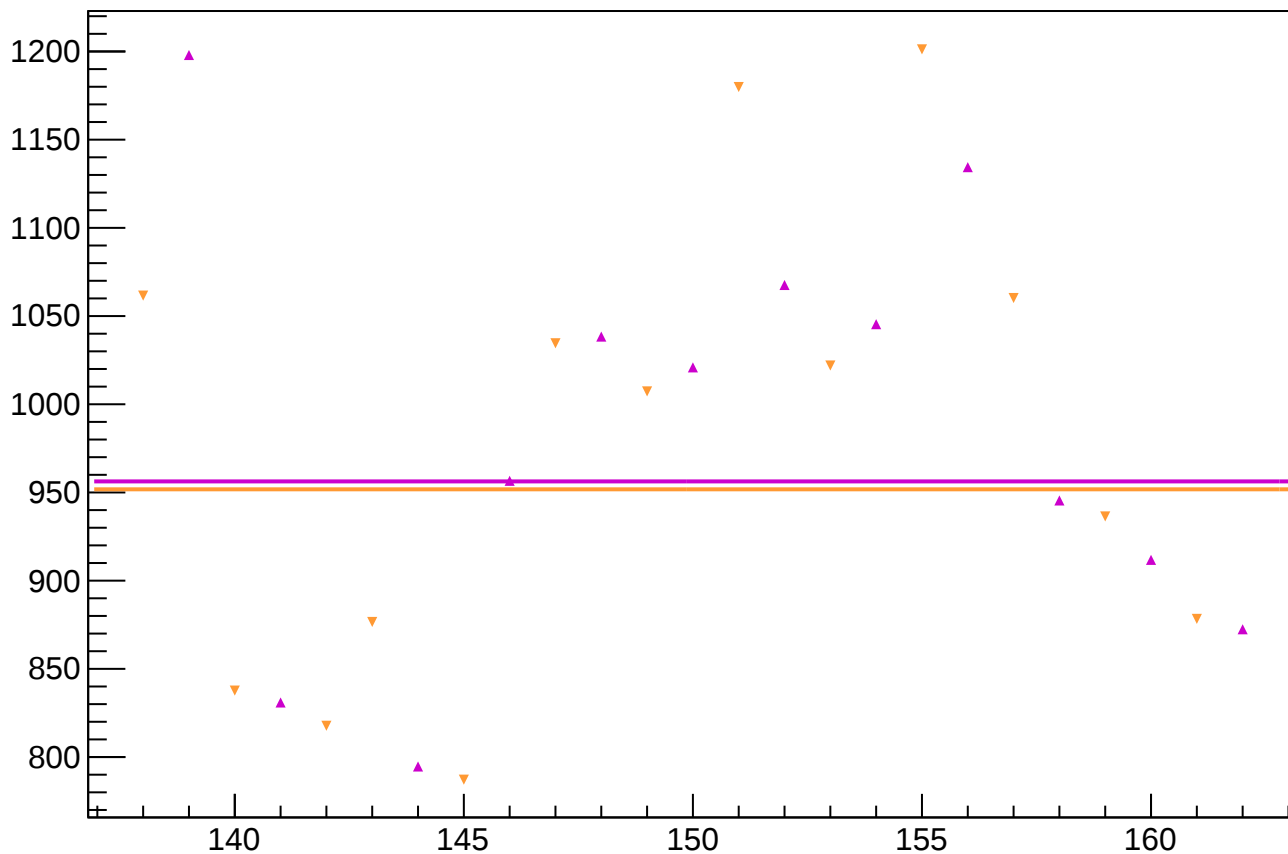
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.756+/-307.700  $\chi^2/\text{NDF}$ :11.8/11

Out: -1295.451+/-308.029  $\chi^2/\text{NDF}$ :28.4/12

All: -664.428+/-217.693  $\chi^2/\text{NDF}$ : 48.6/24

asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 951.781+/-0.218  $\chi^2/\text{NDF}$ : 320899.1/12

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

Left In: 956.267+/-0.218  $\chi^2/\text{NDF}$ : 276865.6/11

Left: 954.026+/-0.154  $\chi^2/\text{NDF}$ : 597977.0/24

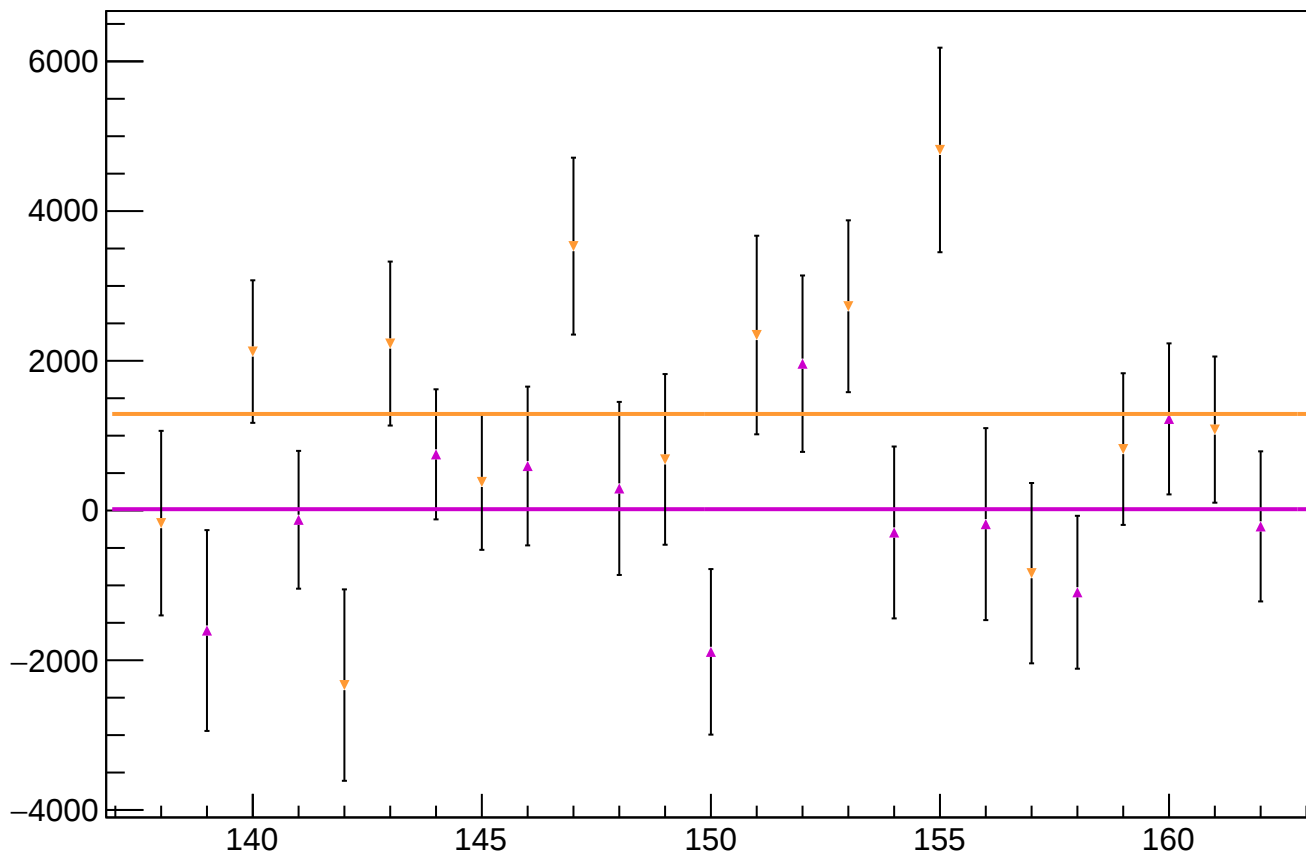
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 956.267+/-0.218  $\chi^2/\text{NDF}$ : 276865.6/11

Out: 951.781+/-0.218  $\chi^2/\text{NDF}$ : 320899.1/12

All: 954.026+/-0.154  $\chi^2/\text{NDF}$ : 597977.0/24

asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 1290.045+/-308.839  $\chi^2/\text{NDF}$ :28.1/12

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

Left In: 17.907+/-308.028  $\chi^2/\text{NDF}$ :11.0/11

Left: 652.304+/-218.095  $\chi^2/\text{NDF}$ : 47.6/24

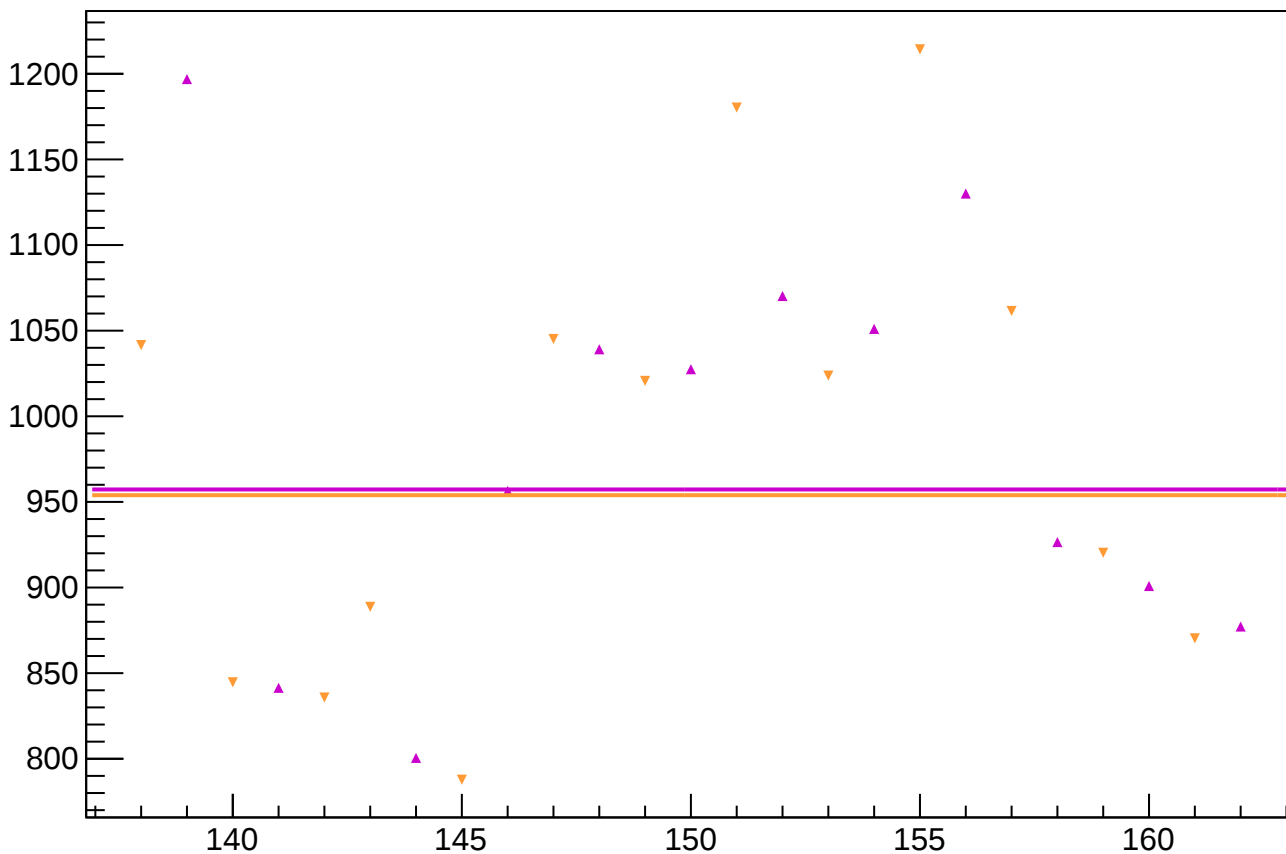
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.907+/-308.028  $\chi^2/\text{NDF}$ :11.0/11

Out: 1290.045+/-308.839  $\chi^2/\text{NDF}$ :28.1/12

All: 652.304+/-218.095  $\chi^2/\text{NDF}$ : 47.6/24

# asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 953.927+/-0.218  $\chi^2/\text{NDF}$ :317630.0/12

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

Left In: 957.265+/-0.218  $\chi^2/\text{NDF}$ :267548.4/11

Left: 955.601+/-0.154  $\chi^2/\text{NDF}$ : 585295.6/24

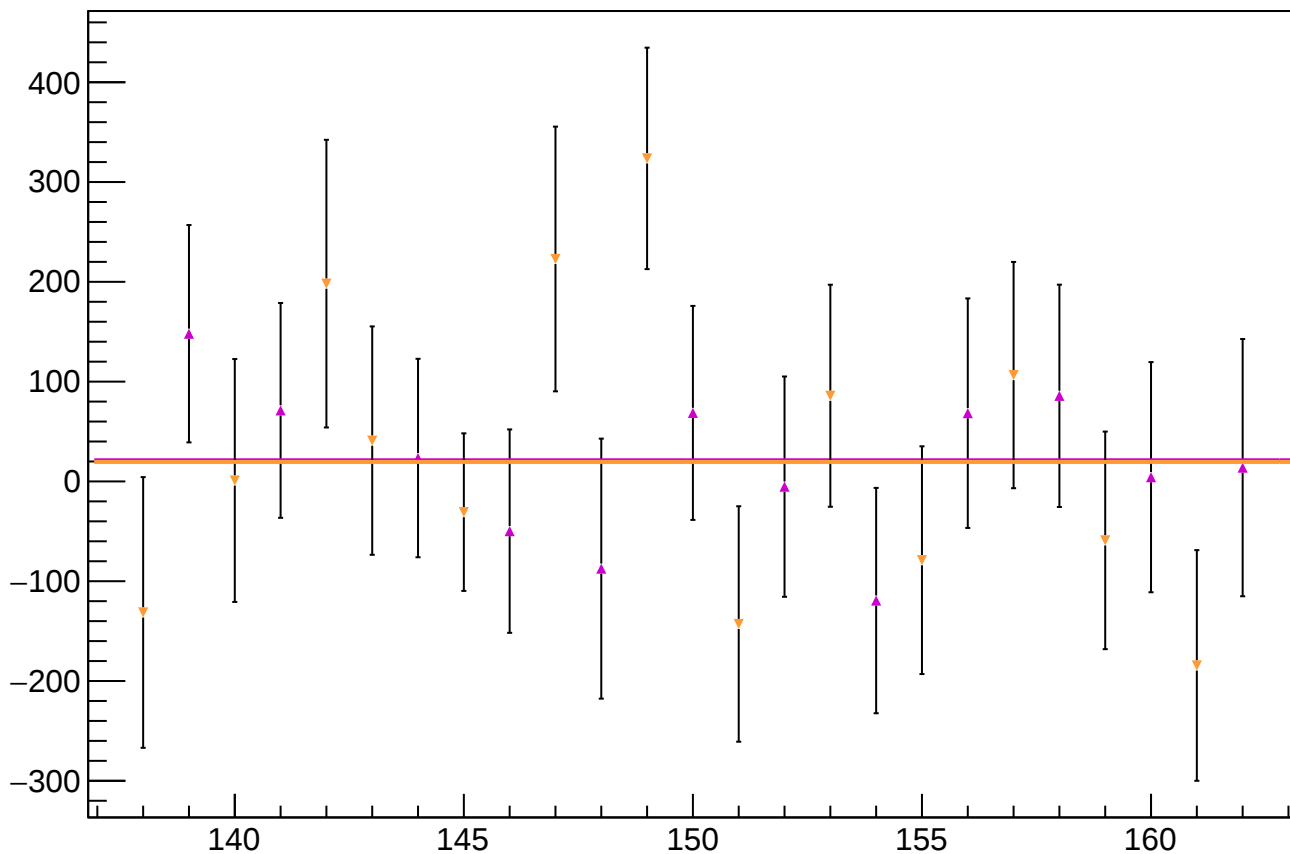
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 957.265+/-0.218  $\chi^2/\text{NDF}$ :267548.4/11

Out: 953.927+/-0.218  $\chi^2/\text{NDF}$ :317630.0/12

All: 955.601+/-0.154  $\chi^2/\text{NDF}$ : 585295.6/24

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 19.523 $\pm$ 31.448  $\chi^2$ /NDF:20.3/12

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

Left In: 21.180 $\pm$ 32.172  $\chi^2$ /NDF:5.1/11

Left: 20.332 $\pm$ 22.489  $\chi^2$ /NDF: 25.4/24

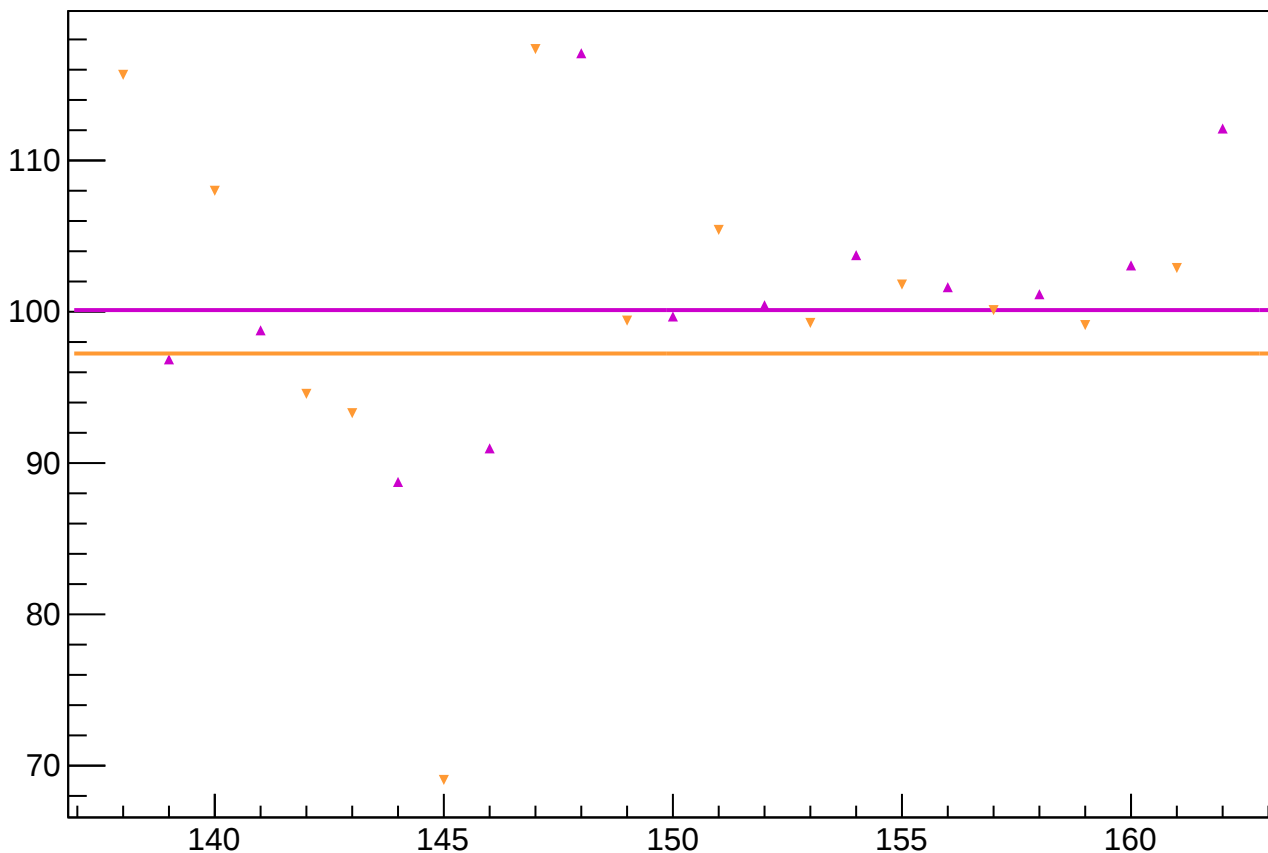
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 21.180 $\pm$ 32.172  $\chi^2$ /NDF:5.1/11

Out: 19.523 $\pm$ 31.448  $\chi^2$ /NDF:20.3/12

All: 20.332 $\pm$ 22.489  $\chi^2$ /NDF: 25.4/24

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 97.241±/-0.022  $\chi^2/\text{NDF}$ :377367.9/12

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

Left In: 100.111±/-0.023  $\chi^2/\text{NDF}$ :99537.8/11

Left: 98.644±/-0.016  $\chi^2/\text{NDF}$ : 485044.9/24

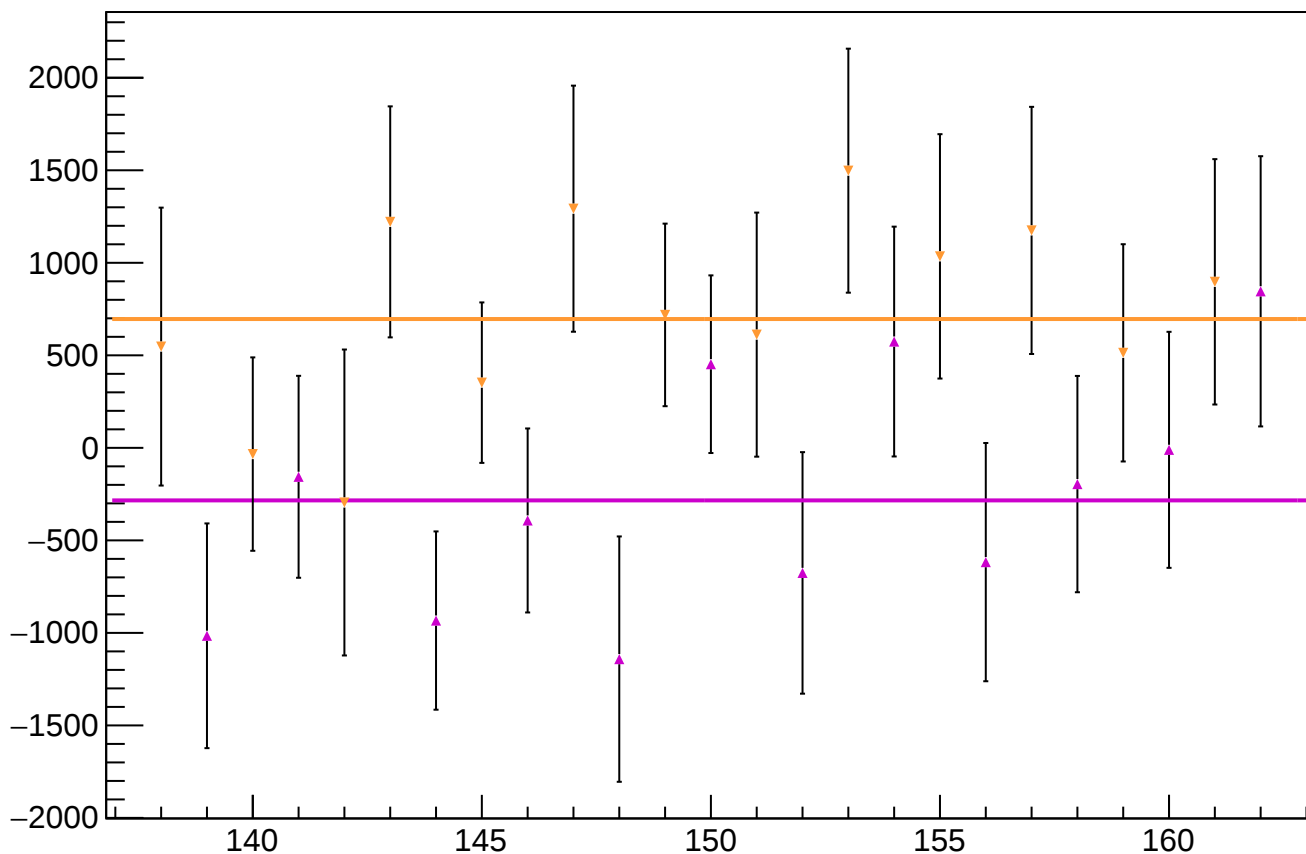
Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 100.111±/-0.023  $\chi^2/\text{NDF}$ :99537.8/11

Out: 97.241±/-0.022  $\chi^2/\text{NDF}$ :377367.9/12

All: 98.644±/-0.016  $\chi^2/\text{NDF}$ : 485044.9/24

asym\_sam\_26\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 696.131+/-167.917  $\chi^2/\text{NDF}$ :8.0/12

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

Left In: -283.946+/-167.470  $\chi^2/\text{NDF}$ :12.5/11

Left: 204.787+/-118.577  $\chi^2/\text{NDF}$ : 37.6/24

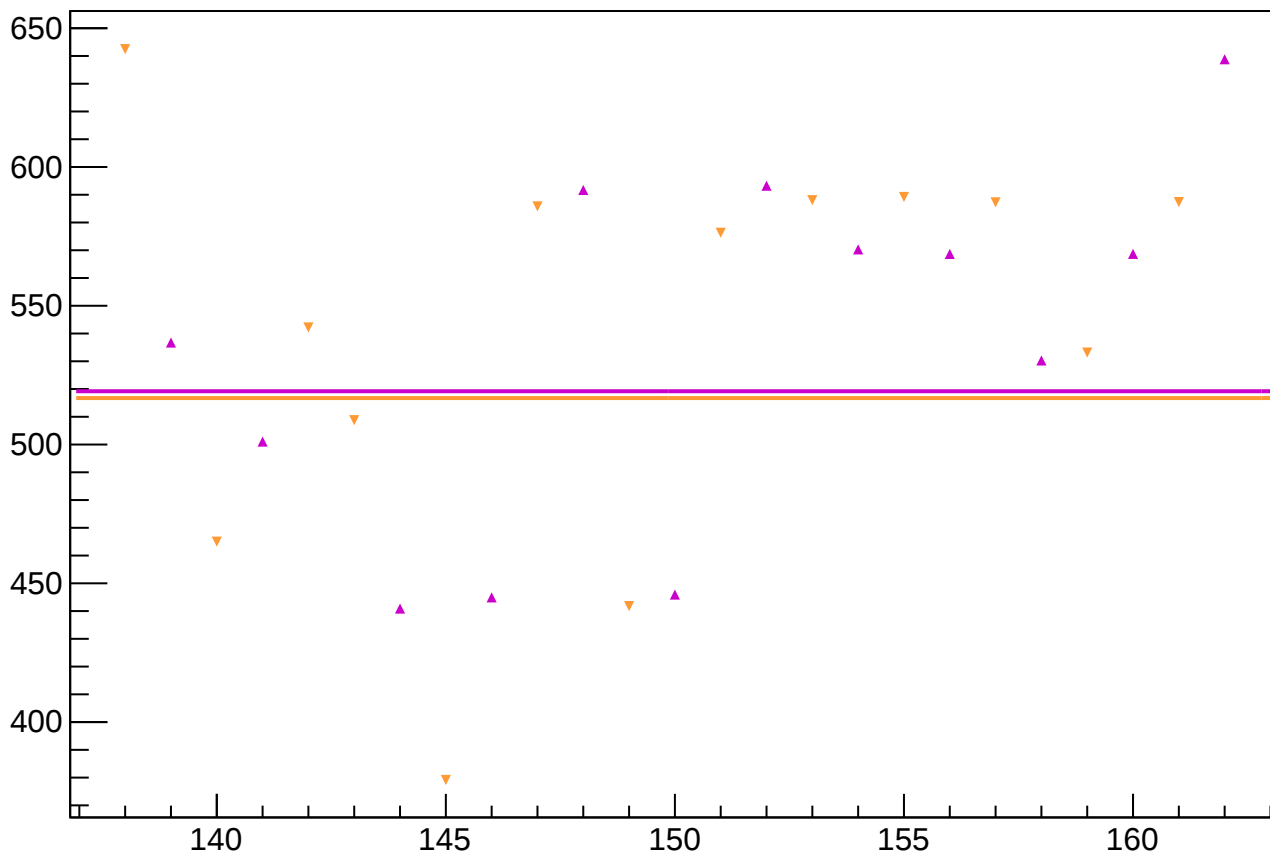
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -283.946+/-167.470  $\chi^2/\text{NDF}$ :12.5/11

Out: 696.131+/-167.917  $\chi^2/\text{NDF}$ :8.0/12

All: 204.787+/-118.577  $\chi^2/\text{NDF}$ : 37.6/24

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 516.748+/-0.119  $\chi^2/\text{NDF}$ : 457334.0/12

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

Left In: 519.208+/-0.118  $\chi^2/\text{NDF}$ : 289420.2/11

Left: 517.981+/-0.084  $\chi^2/\text{NDF}$ : 746969.4/24

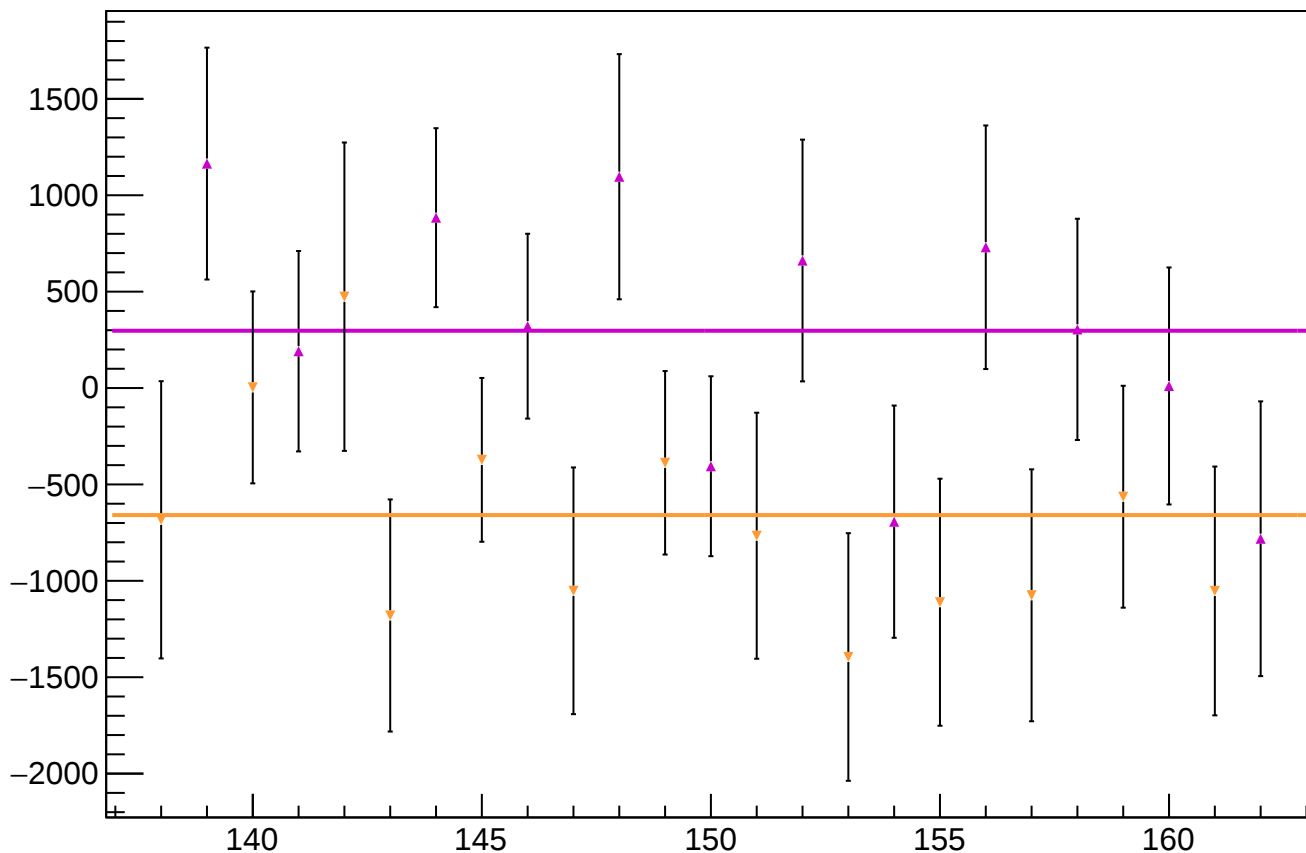
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 519.208+/-0.118  $\chi^2/\text{NDF}$ : 289420.2/11

Out: 516.748+/-0.119  $\chi^2/\text{NDF}$ : 457334.0/12

All: 517.981+/-0.084  $\chi^2/\text{NDF}$ : 746969.4/24

asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -658.902 $\pm$ 162.715  $\chi^2$ /NDF:8.3/12

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

Left In: 297.220 $\pm$ 162.261  $\chi^2$ /NDF:13.6/11

Left: -179.506 $\pm$ 114.896  $\chi^2$ /NDF: 39.2/24

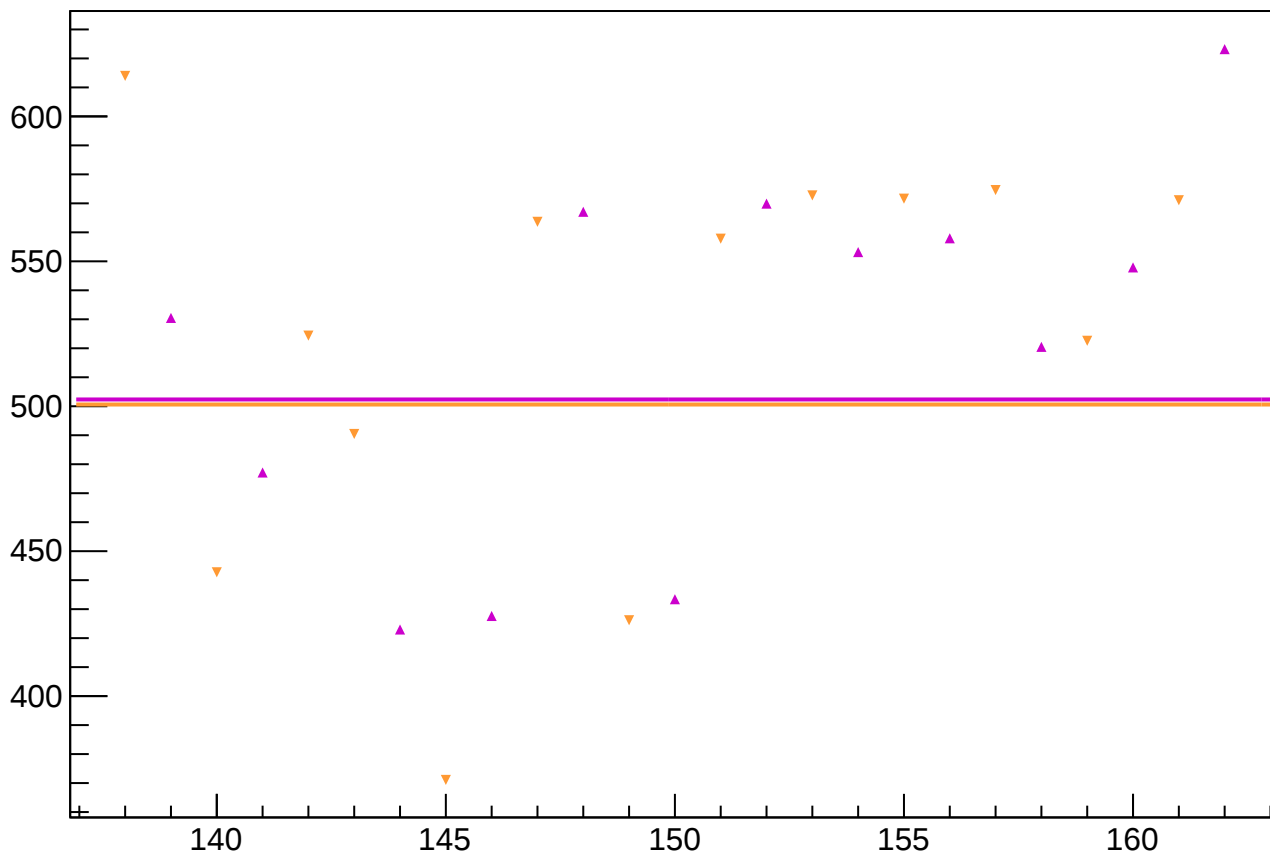
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 297.220 $\pm$ 162.261  $\chi^2$ /NDF:13.6/11

Out: -658.902 $\pm$ 162.715  $\chi^2$ /NDF:8.3/12

All: -179.506 $\pm$ 114.896  $\chi^2$ /NDF: 39.2/24

asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 500.598+/-0.115  $\chi^2/\text{NDF}$ : 451599.8/12

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

Left In: 502.342+/-0.115  $\chi^2/\text{NDF}$ : 303950.9/11

Left: 501.473+/-0.081  $\chi^2/\text{NDF}$ : 755665.9/24

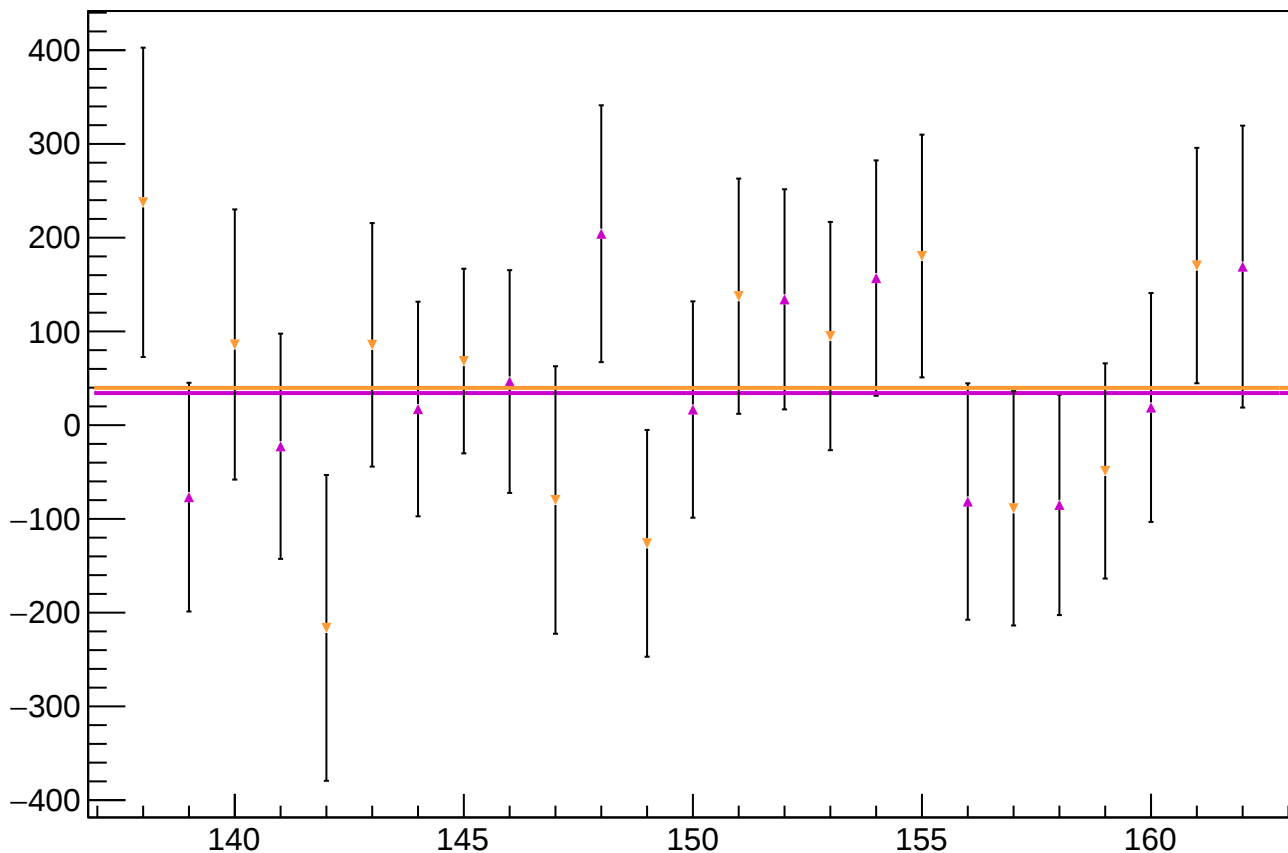
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 502.342+/-0.115  $\chi^2/\text{NDF}$ : 303950.9/11

Out: 500.598+/-0.115  $\chi^2/\text{NDF}$ : 451599.8/12

All: 501.473+/-0.081  $\chi^2/\text{NDF}$ : 755665.9/24

dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 39.763 $\pm$ 35.436  $\chi^2$ /NDF:11.5/12

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

Left In: 34.227 $\pm$ 35.477  $\chi^2$ /NDF:7.0/11

Left: 36.998 $\pm$ 25.072  $\chi^2$ /NDF: 18.6/24

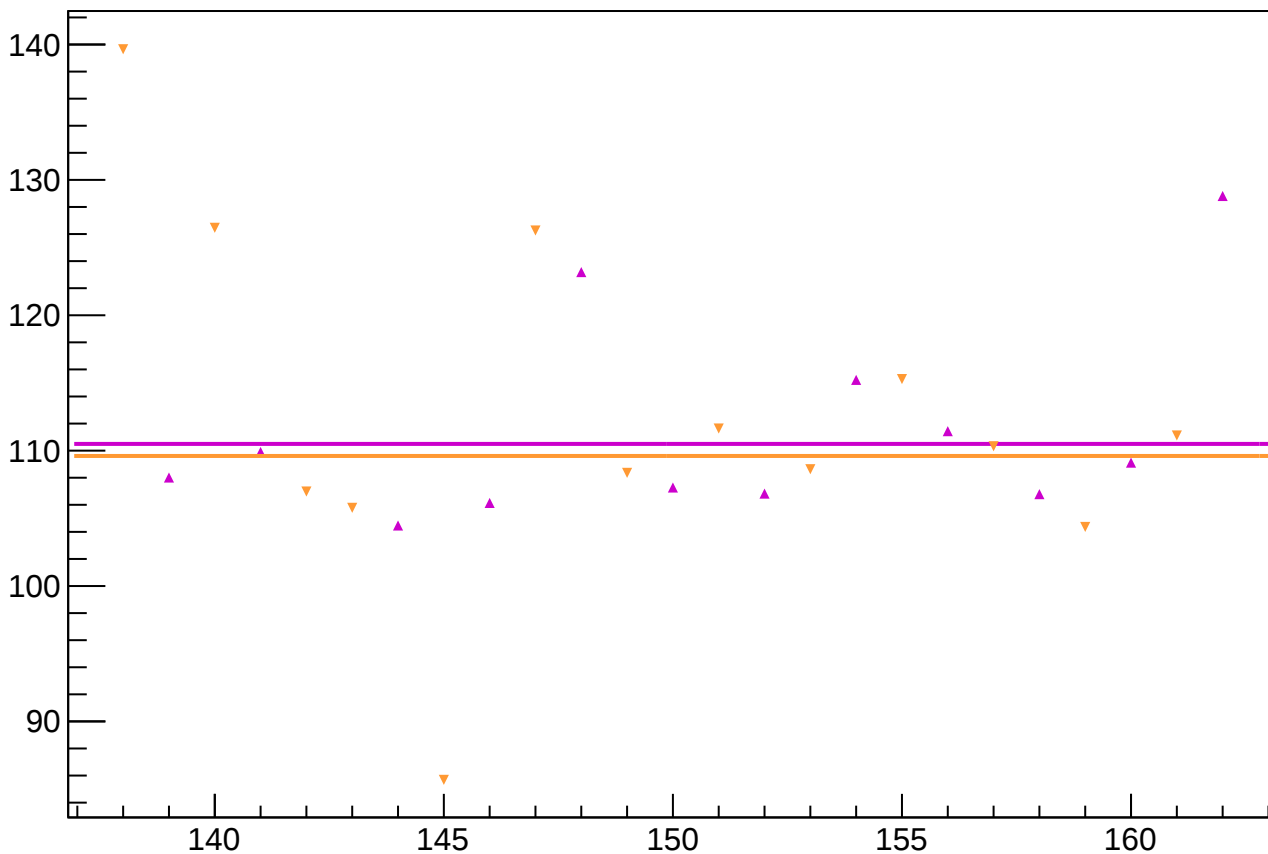
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 34.227 $\pm$ 35.477  $\chi^2$ /NDF:7.0/11

Out: 39.763 $\pm$ 35.436  $\chi^2$ /NDF:11.5/12

All: 36.998 $\pm$ 25.072  $\chi^2$ /NDF: 18.6/24

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 109.608+/-0.025  $\chi^2/\text{NDF}$ :250501.7/12

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

Left In: 110.498+/-0.025  $\chi^2/\text{NDF}$ :64654.0/11

Left: 110.052+/-0.018  $\chi^2/\text{NDF}$ : 315785.6/24

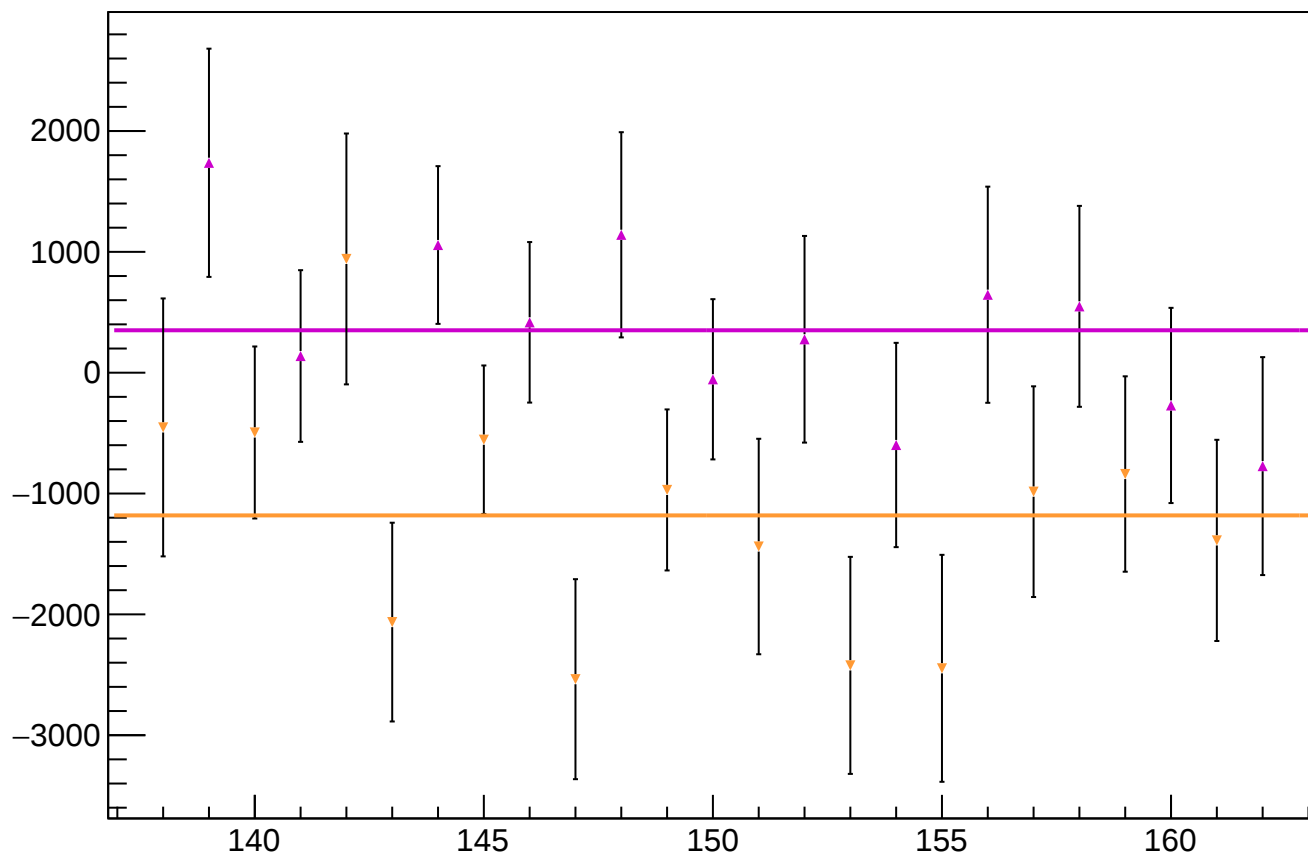
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 110.498+/-0.025  $\chi^2/\text{NDF}$ :64654.0/11

Out: 109.608+/-0.025  $\chi^2/\text{NDF}$ :250501.7/12

All: 110.052+/-0.018  $\chi^2/\text{NDF}$ : 315785.6/24

asym\_sam\_1548\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1181.023+/-226.225  $\chi^2/\text{NDF}$ :14.7/12

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

Left In: 351.012+/-225.853  $\chi^2/\text{NDF}$ :8.2/11

Left: -413.744+/-159.833  $\chi^2/\text{NDF}$ : 45.9/24

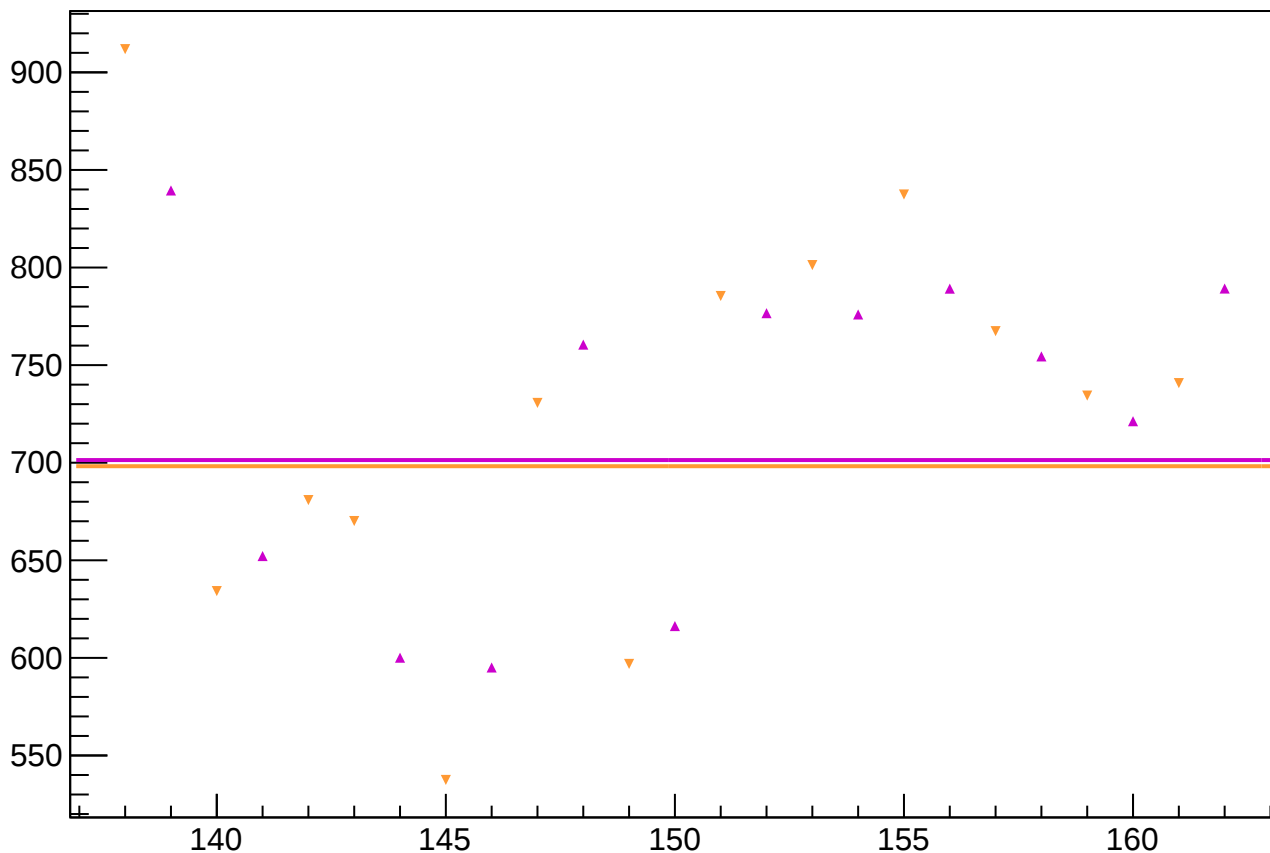
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 351.012+/-225.853  $\chi^2/\text{NDF}$ :8.2/11

Out: -1181.023+/-226.225  $\chi^2/\text{NDF}$ :14.7/12

All: -413.744+/-159.833  $\chi^2/\text{NDF}$ : 45.9/24

asym\_sam\_1548\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 698.207+/-0.160  $\chi^2/\text{NDF}$ : 396669.8/12

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

Left In: 701.357+/-0.160  $\chi^2/\text{NDF}$ : 273040.2/11

Left: 699.785+/-0.113  $\chi^2/\text{NDF}$ : 669904.2/24

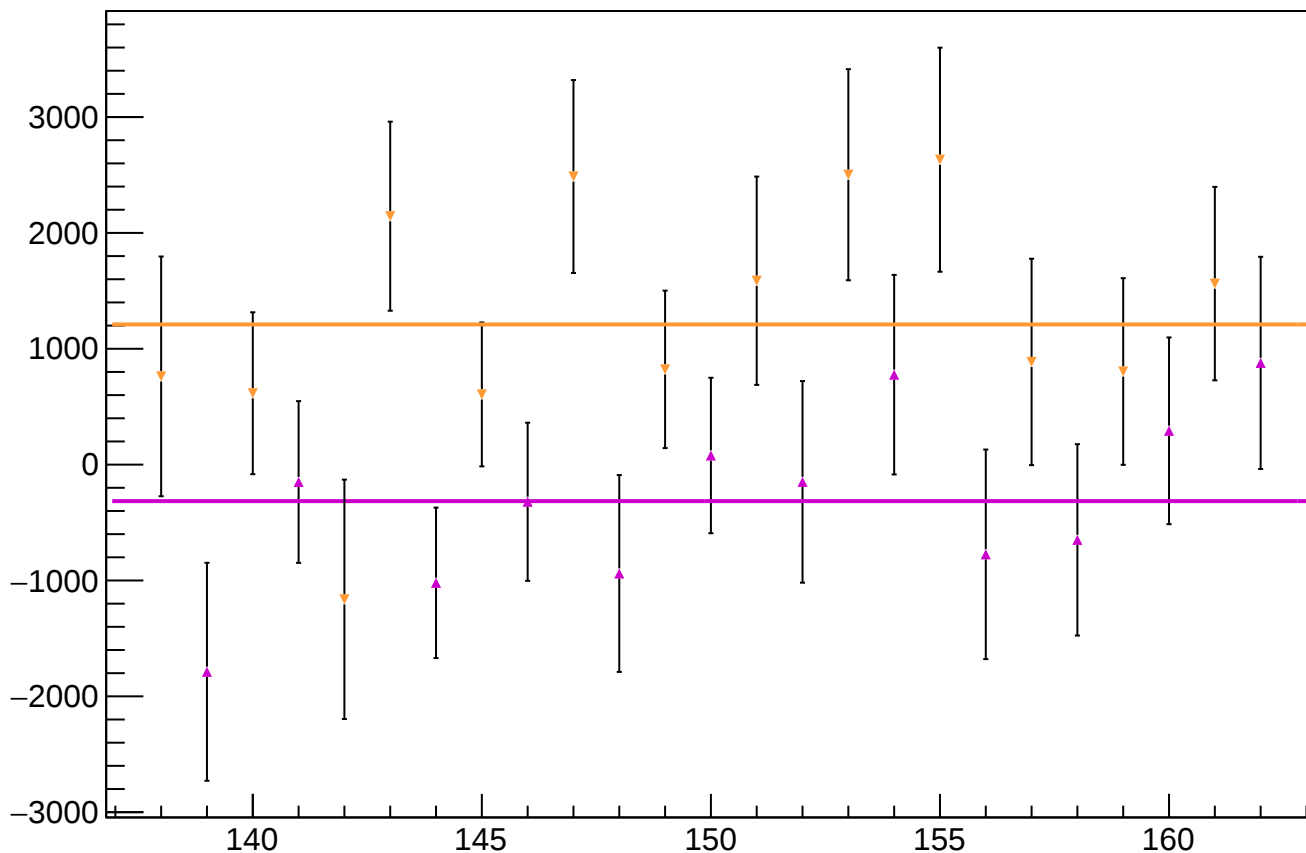
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 701.357+/-0.160  $\chi^2/\text{NDF}$ : 273040.2/11

Out: 698.207+/-0.160  $\chi^2/\text{NDF}$ : 396669.8/12

All: 699.785+/-0.113  $\chi^2/\text{NDF}$ : 669904.2/24

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1209.924+/-227.221  $\chi^2/\text{NDF}$ :16.0/12

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

Left In: -315.131+/-227.054  $\chi^2/\text{NDF}$ :8.9/11

Left: 446.837+/-160.610  $\chi^2/\text{NDF}$ : 47.5/24

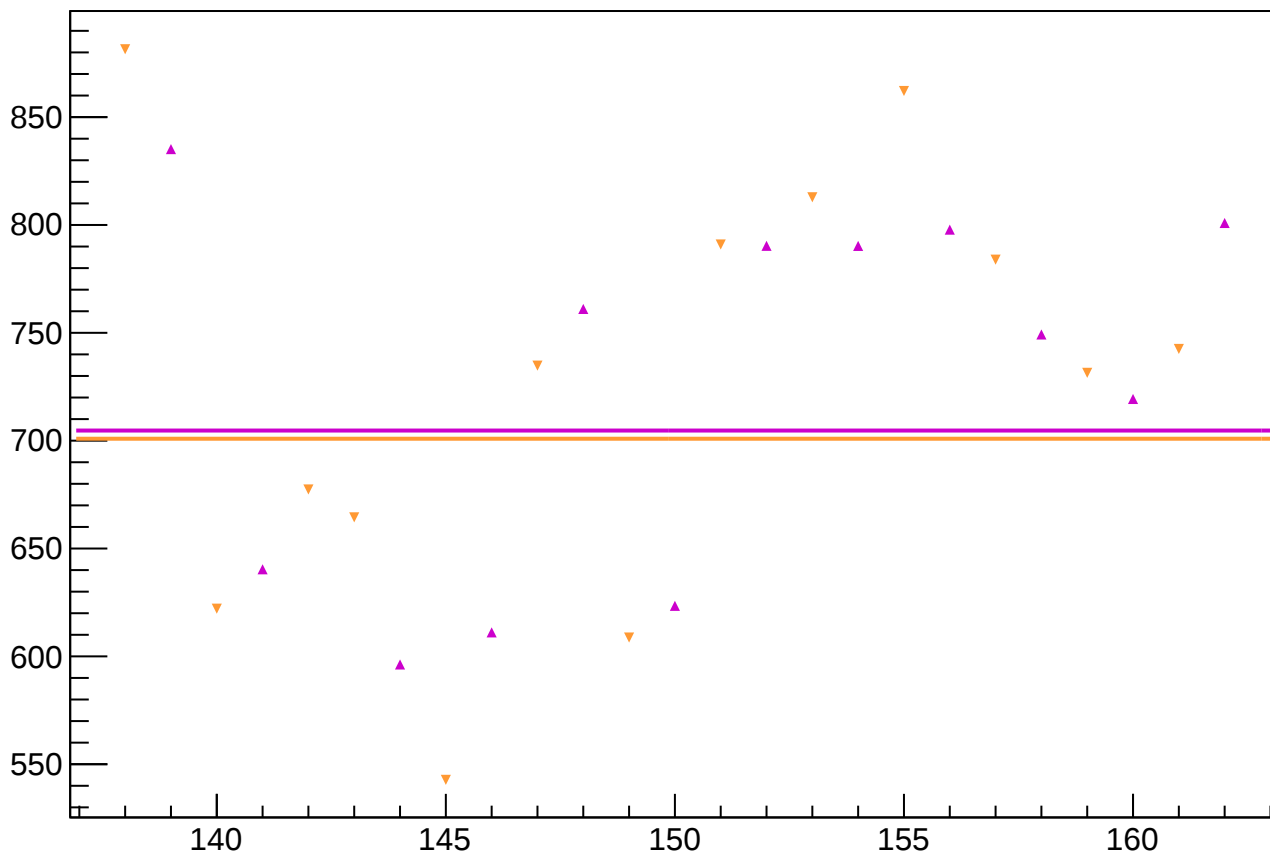
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -315.131+/-227.054  $\chi^2/\text{NDF}$ :8.9/11

Out: 1209.924+/-227.221  $\chi^2/\text{NDF}$ :16.0/12

All: 446.837+/-160.610  $\chi^2/\text{NDF}$ : 47.5/24

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 700.899+/-0.161  $\chi^2/\text{NDF}$ :392202.0/12

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

Left In: 704.698+/-0.161  $\chi^2/\text{NDF}$ :275871.2/11

Left: 702.800+/-0.114  $\chi^2/\text{NDF}$ : 668352.9/24

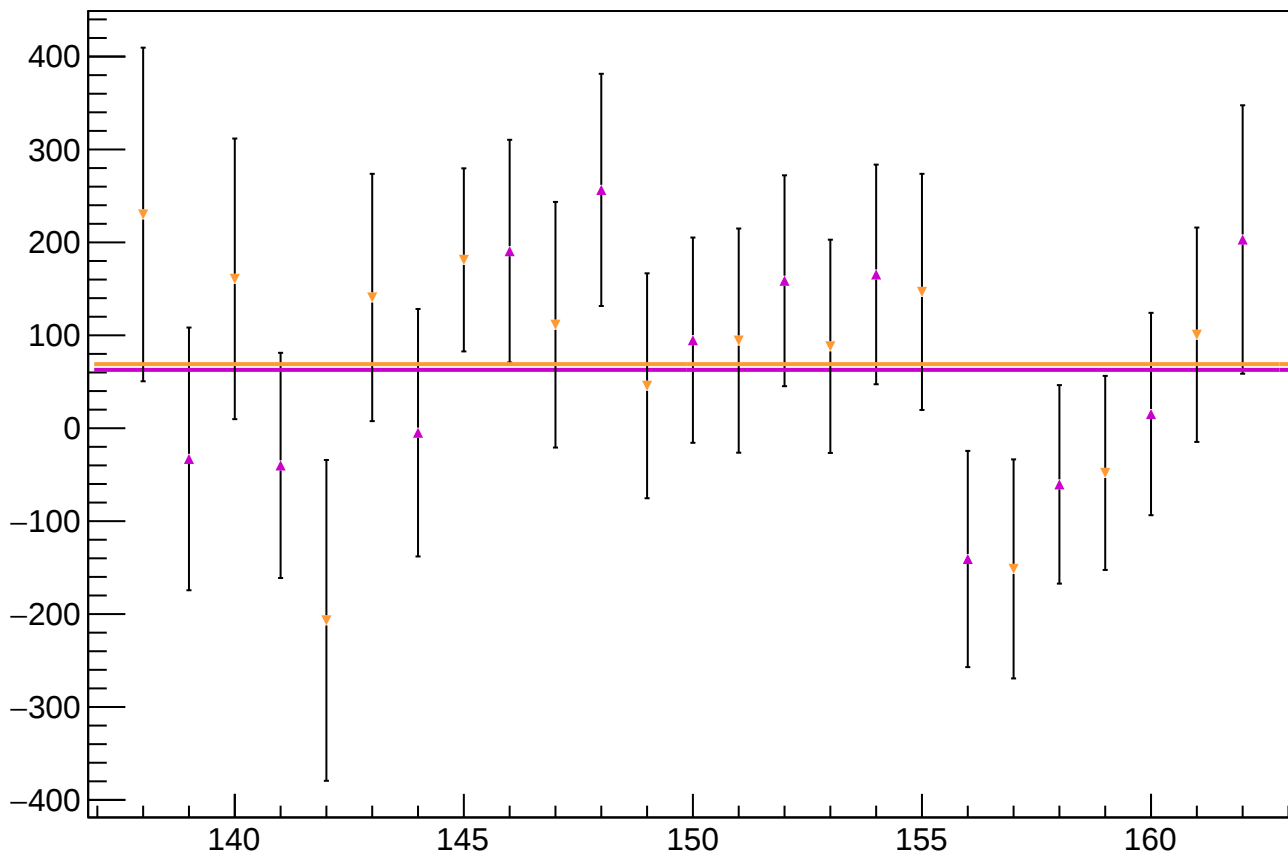
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 704.698+/-0.161  $\chi^2/\text{NDF}$ :275871.2/11

Out: 700.899+/-0.161  $\chi^2/\text{NDF}$ :392202.0/12

All: 702.800+/-0.114  $\chi^2/\text{NDF}$ : 668352.9/24

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 68.998+/-34.527  $\chi^2/\text{NDF}$ :10.7/12

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

Left In: 62.810+/-34.644  $\chi^2/\text{NDF}$ :12.1/11

Left: 65.915+/-24.456  $\chi^2/\text{NDF}$ : 22.8/24

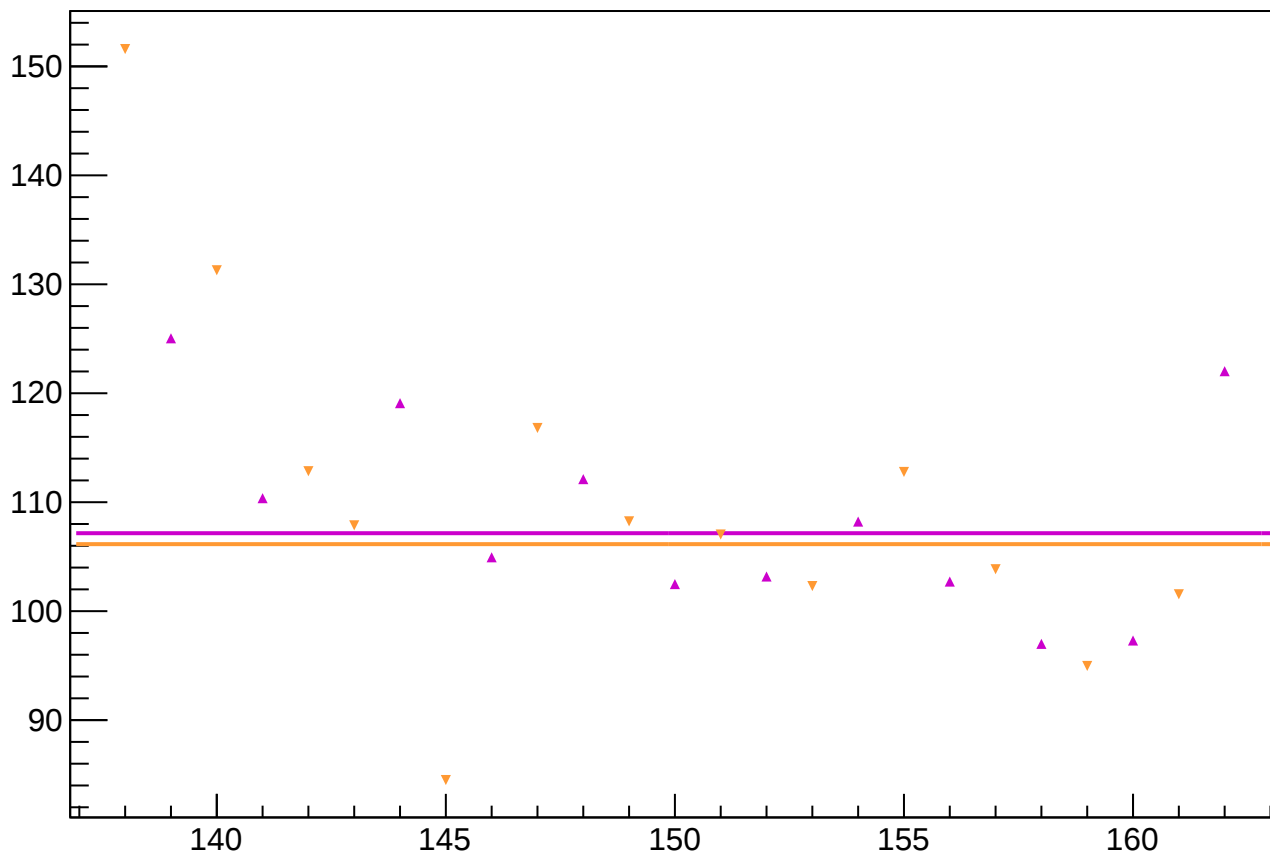
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 62.810+/-34.644  $\chi^2/\text{NDF}$ :12.1/11

Out: 68.998+/-34.527  $\chi^2/\text{NDF}$ :10.7/12

All: 65.915+/-24.456  $\chi^2/\text{NDF}$ : 22.8/24

dit\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 106.150+/-0.024  $\chi^2/\text{NDF}$ :331778.5/12

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

Left In: 107.155+/-0.024  $\chi^2/\text{NDF}$ :118073.6/11

Left: 106.651+/-0.017  $\chi^2/\text{NDF}$ : 450696.6/24

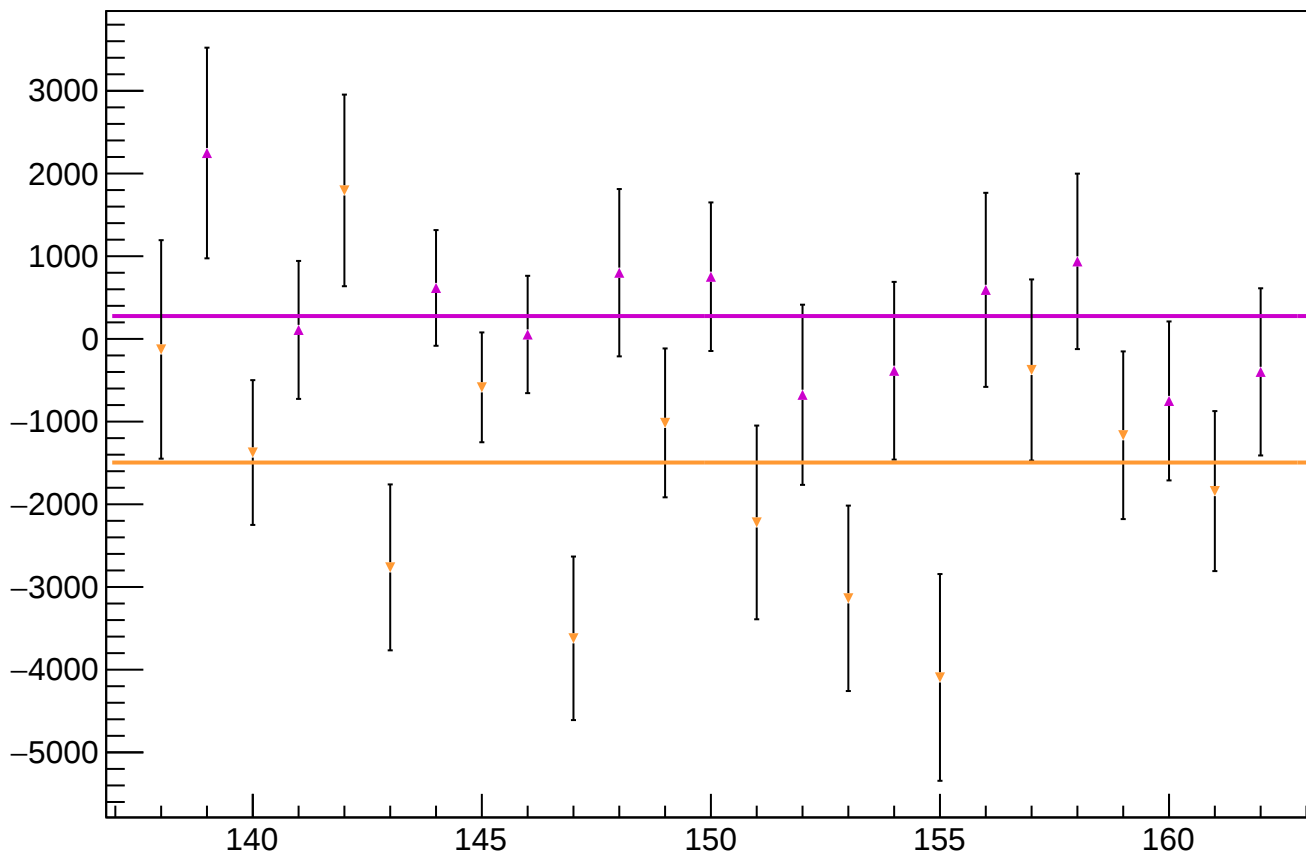
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 107.155+/-0.024  $\chi^2/\text{NDF}$ :118073.6/11

Out: 106.150+/-0.024  $\chi^2/\text{NDF}$ :331778.5/12

All: 106.651+/-0.017  $\chi^2/\text{NDF}$ : 450696.6/24

asym\_sam\_3748\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1494.921+/-275.454  $\chi^2/\text{NDF}$ :25.7/12

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

Left In: 276.363+/-270.337  $\chi^2/\text{NDF}$ :6.5/11

Left: -592.675+/-192.941  $\chi^2/\text{NDF}$ : 53.2/24

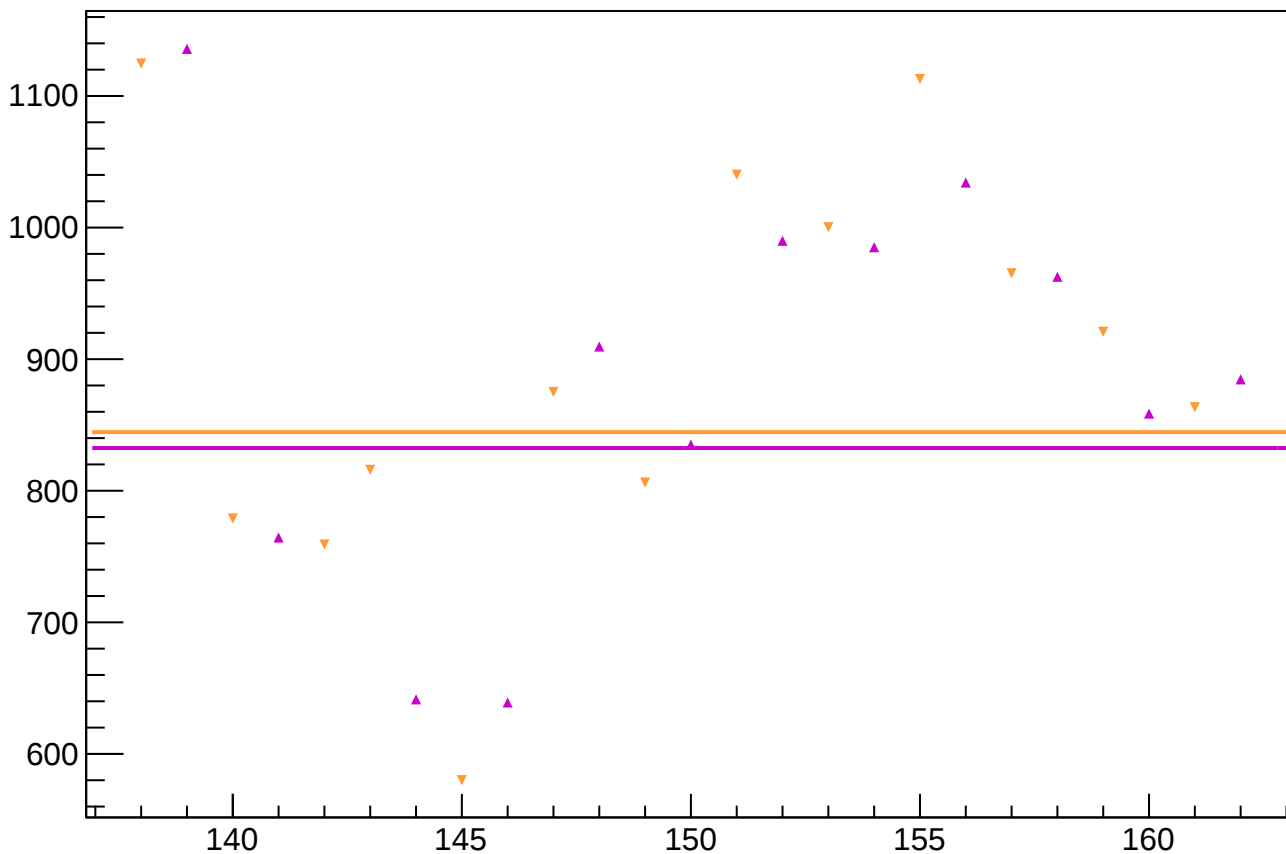
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 276.363+/-270.337  $\chi^2/\text{NDF}$ :6.5/11

Out: -1494.921+/-275.454  $\chi^2/\text{NDF}$ :25.7/12

All: -592.675+/-192.941  $\chi^2/\text{NDF}$ : 53.2/24

asym\_sam\_3748\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 844.557+/-0.195  $\chi^2/\text{NDF}$ :659379.7/12

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

Left In: 832.456+/-0.191  $\chi^2/\text{NDF}$ :614121.1/11

Left: 838.393+/-0.136  $\chi^2/\text{NDF}$ : 1275467.1/24

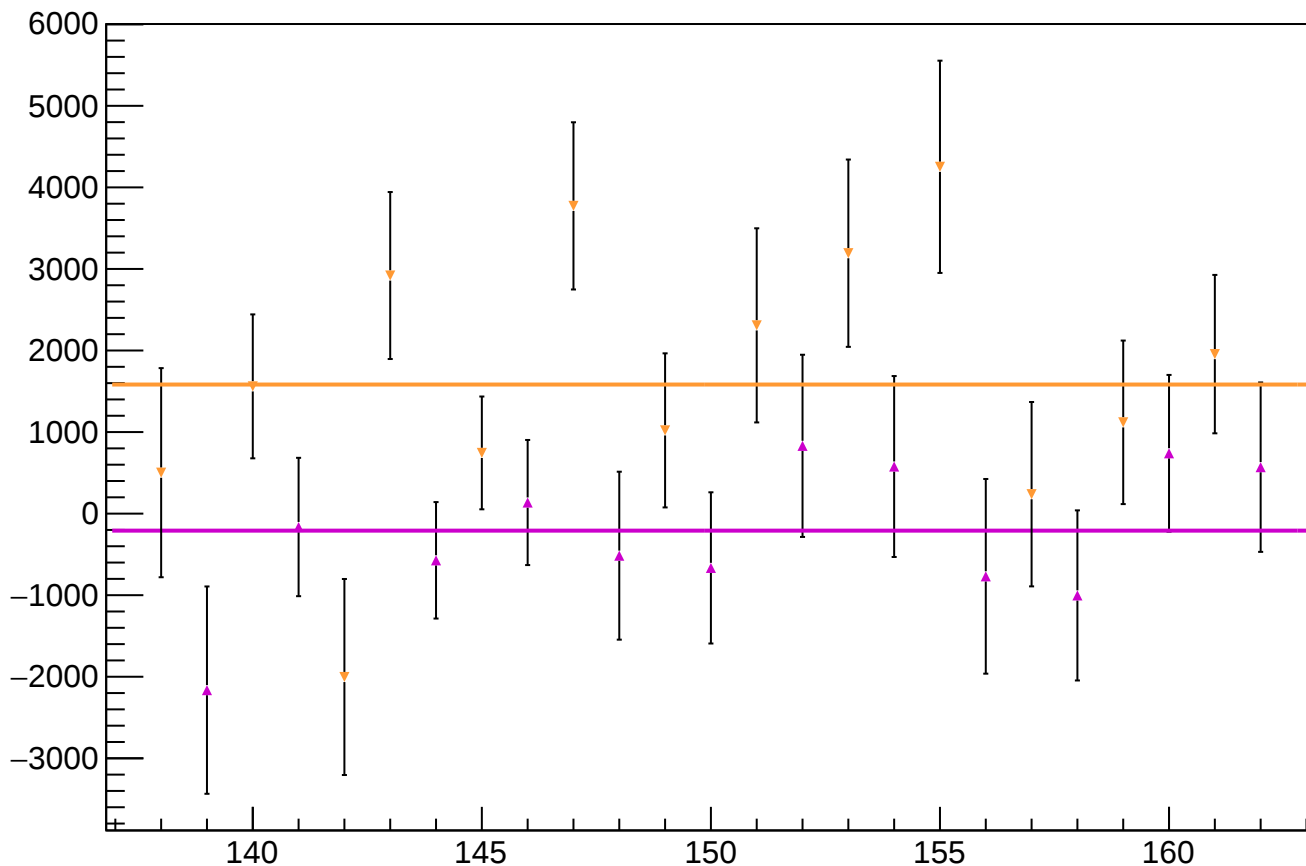
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 832.456+/-0.191  $\chi^2/\text{NDF}$ :614121.1/11

Out: 844.557+/-0.195  $\chi^2/\text{NDF}$ :659379.7/12

All: 838.393+/-0.136  $\chi^2/\text{NDF}$ : 1275467.1/24

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1582.725+/-281.756  $\chi^2/\text{NDF}$ : 26.0/12

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

Left In: -208.567+/-277.097  $\chi^2/\text{NDF}$ : 6.9/11

Left: 672.145+/-197.564  $\chi^2/\text{NDF}$ : 53.4/24

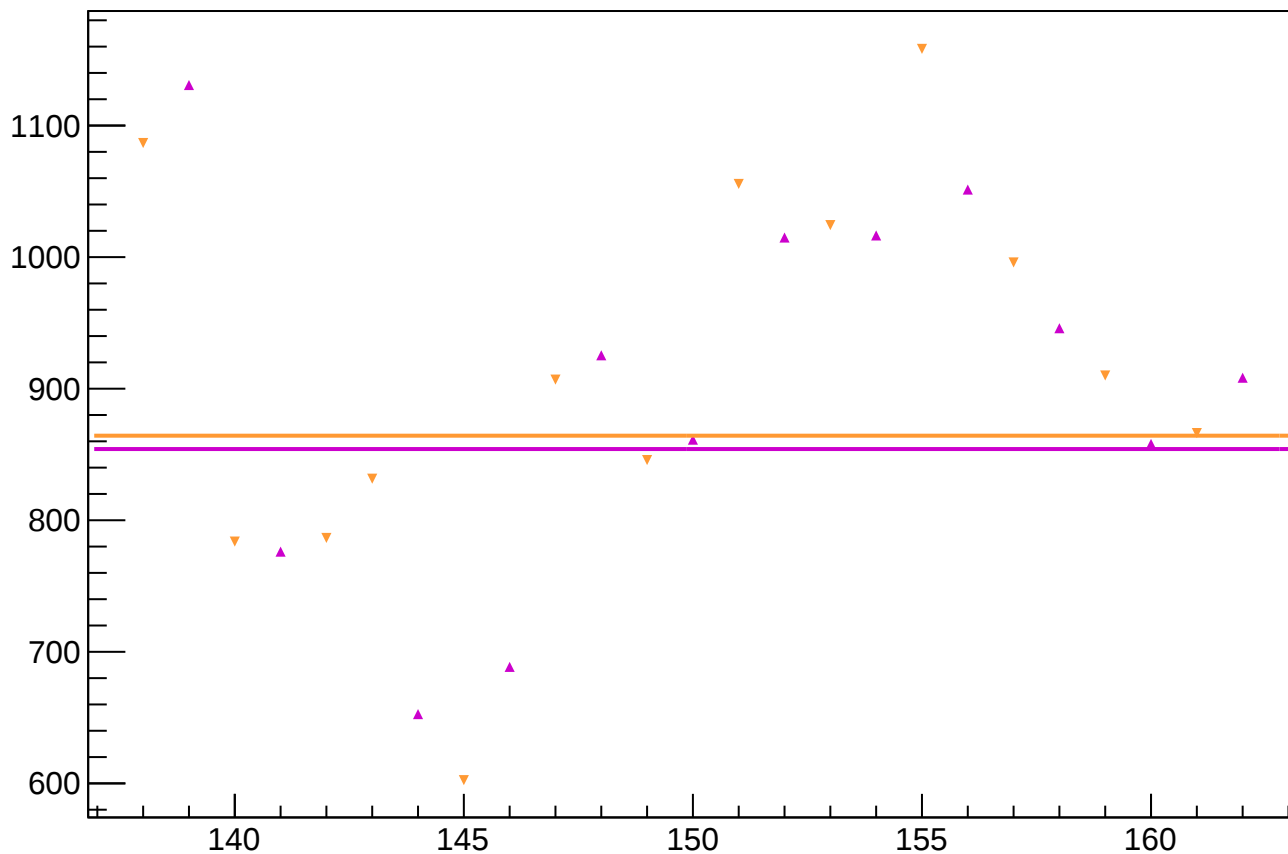
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -208.567+/-277.097  $\chi^2/\text{NDF}$ : 6.9/11

Out: 1582.725+/-281.756  $\chi^2/\text{NDF}$ : 26.0/12

All: 672.145+/-197.564  $\chi^2/\text{NDF}$ : 53.4/24

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 864.281+/-0.199  $\chi^2/\text{NDF}$ : 602171.2/12

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

Left In: 854.127+/-0.196  $\chi^2/\text{NDF}$ : 533668.9/11

Left: 859.120+/-0.140  $\chi^2/\text{NDF}$ : 1137160.5/24

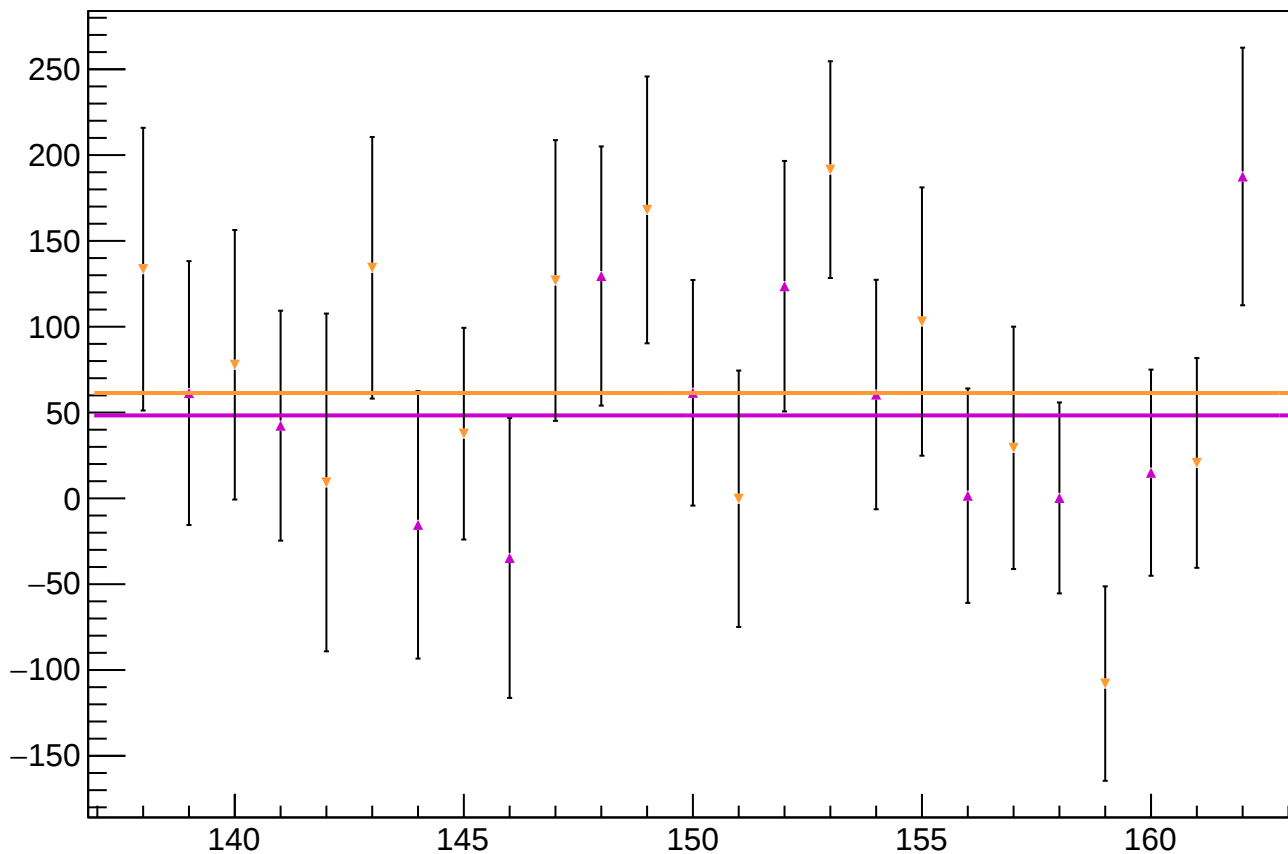
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 854.127+/-0.196  $\chi^2/\text{NDF}$ : 533668.9/11

Out: 864.281+/-0.199  $\chi^2/\text{NDF}$ : 602171.2/12

All: 859.120+/-0.140  $\chi^2/\text{NDF}$ : 1137160.5/24

dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 61.403 $\pm$ 19.854  $\chi^2$ /NDF:19.5/12

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

Left In: 48.325 $\pm$ 19.764  $\chi^2$ /NDF:9.1/11

Left: 54.834 $\pm$ 14.007  $\chi^2$ /NDF: 28.8/24

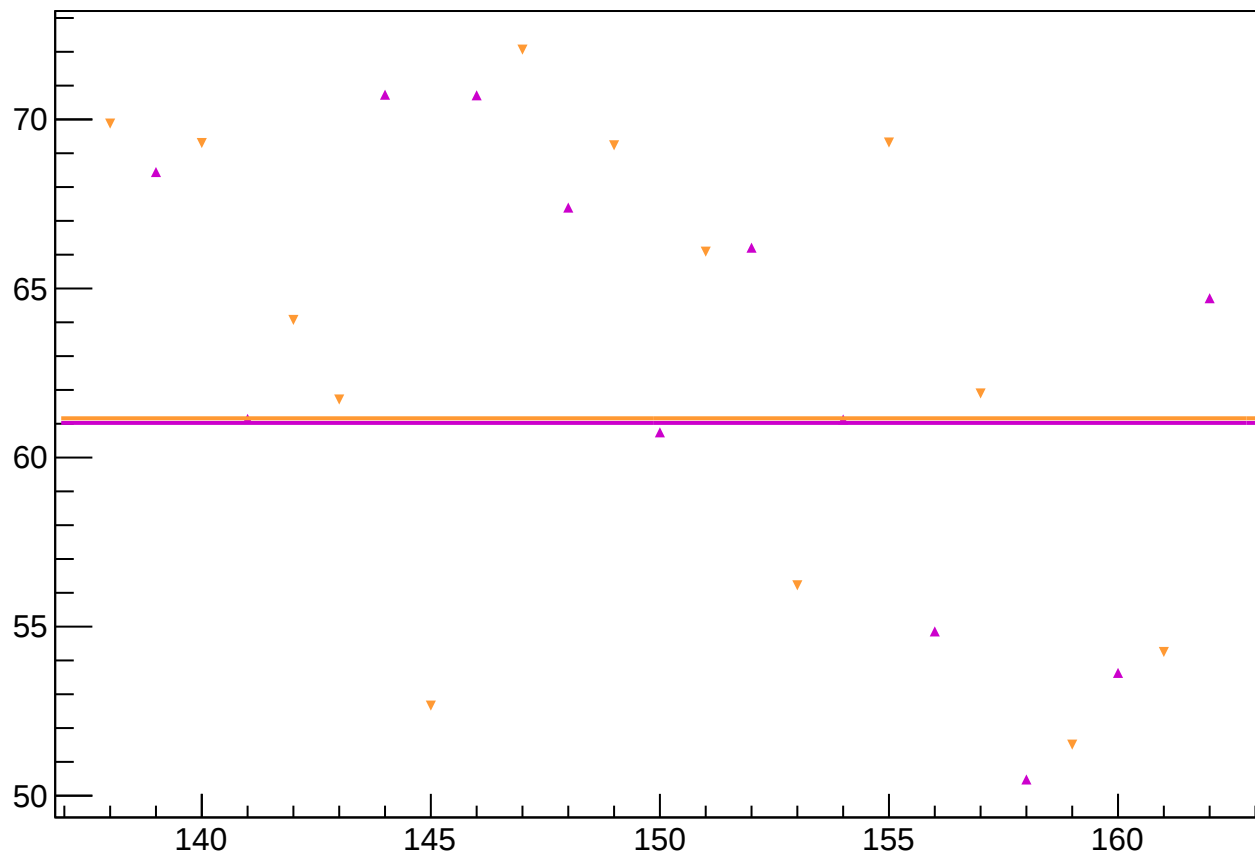
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 48.325 $\pm$ 19.764  $\chi^2$ /NDF:9.1/11

Out: 61.403 $\pm$ 19.854  $\chi^2$ /NDF:19.5/12

All: 54.834 $\pm$ 14.007  $\chi^2$ /NDF: 28.8/24

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 61.162+/-0.014  $\chi^2/\text{NDF}$ :267447.0/12

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

Left In: 61.025+/-0.014  $\chi^2/\text{NDF}$ :228761.2/11

Left: 61.093+/-0.010  $\chi^2/\text{NDF}$ : 496255.8/24

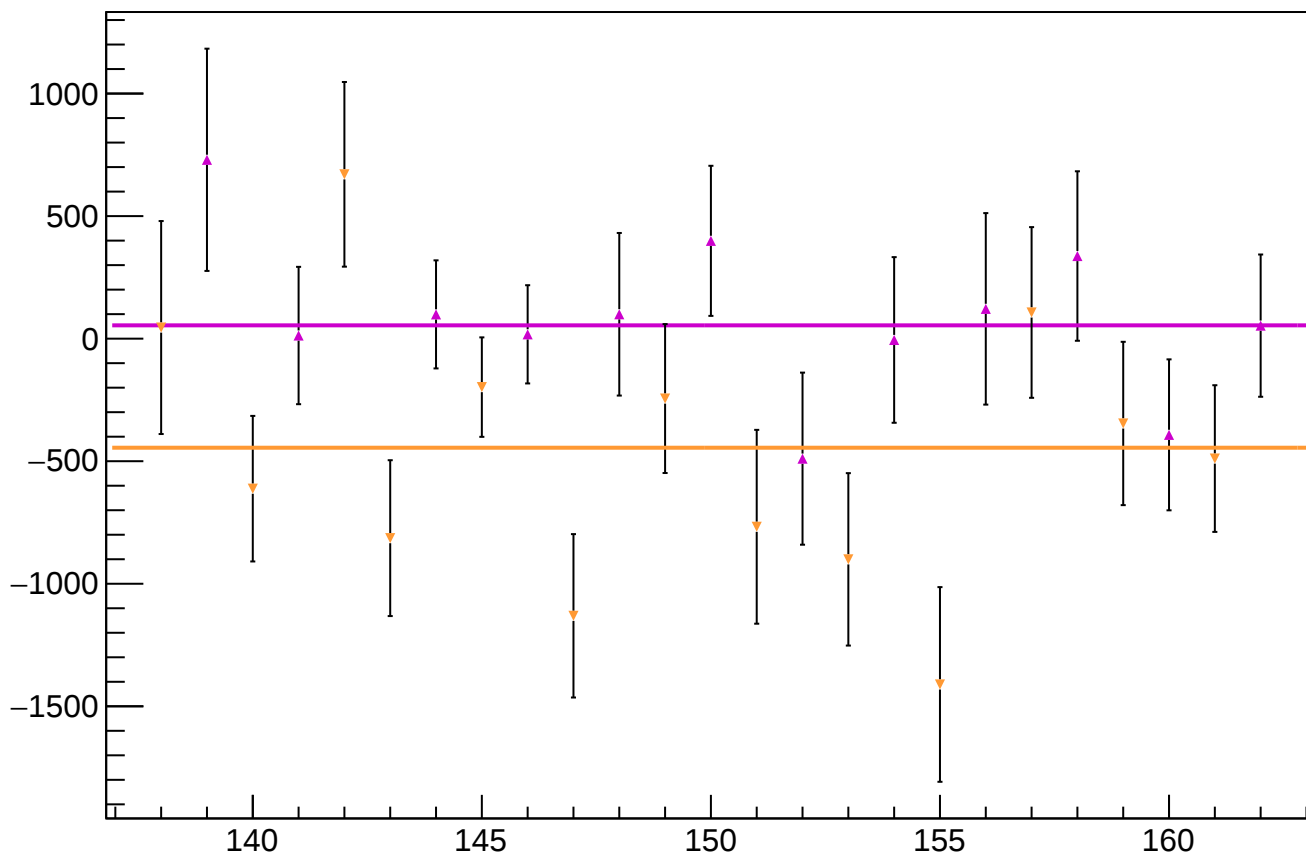
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 61.025+/-0.014  $\chi^2/\text{NDF}$ :228761.2/11

Out: 61.162+/-0.014  $\chi^2/\text{NDF}$ :267447.0/12

All: 61.093+/-0.010  $\chi^2/\text{NDF}$ : 496255.8/24

asym\_sam\_1526\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -444.984+/-88.756  $\chi^2/\text{NDF}$ :28.7/12

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

Left In: 54.313+/-85.425  $\chi^2/\text{NDF}$ :8.8/11

Left: -185.791+/-61.549  $\chi^2/\text{NDF}$ : 54.0/24

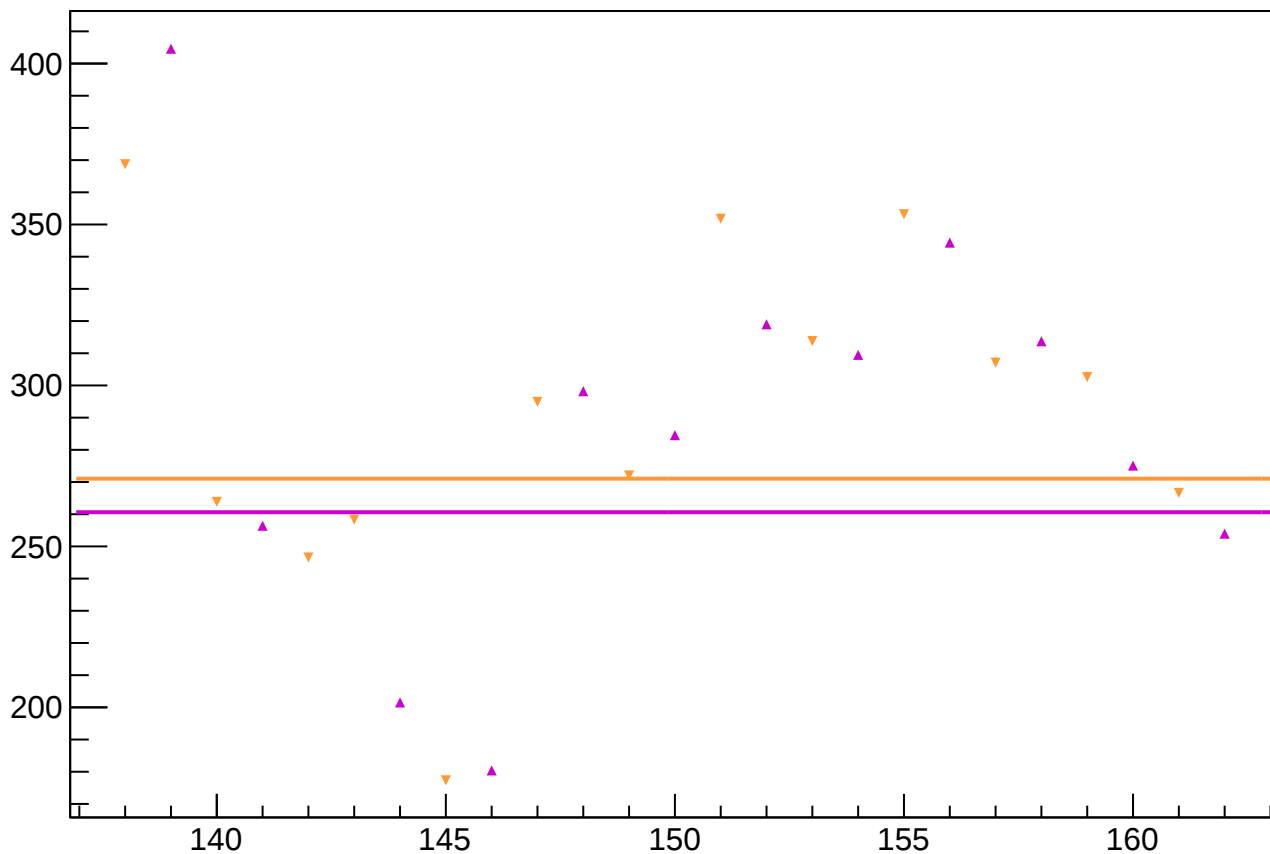
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 54.313+/-85.425  $\chi^2/\text{NDF}$ :8.8/11

Out: -444.984+/-88.756  $\chi^2/\text{NDF}$ :28.7/12

All: -185.791+/-61.549  $\chi^2/\text{NDF}$ : 54.0/24

asym\_sam\_1526\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 271.054+/-0.063  $\chi^2/\text{NDF}$ :789004.8/12

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

Left In: 260.618+/-0.060  $\chi^2/\text{NDF}$ :945886.8/11

Left: 265.636+/-0.044  $\chi^2/\text{NDF}$ : 1749246.0/24

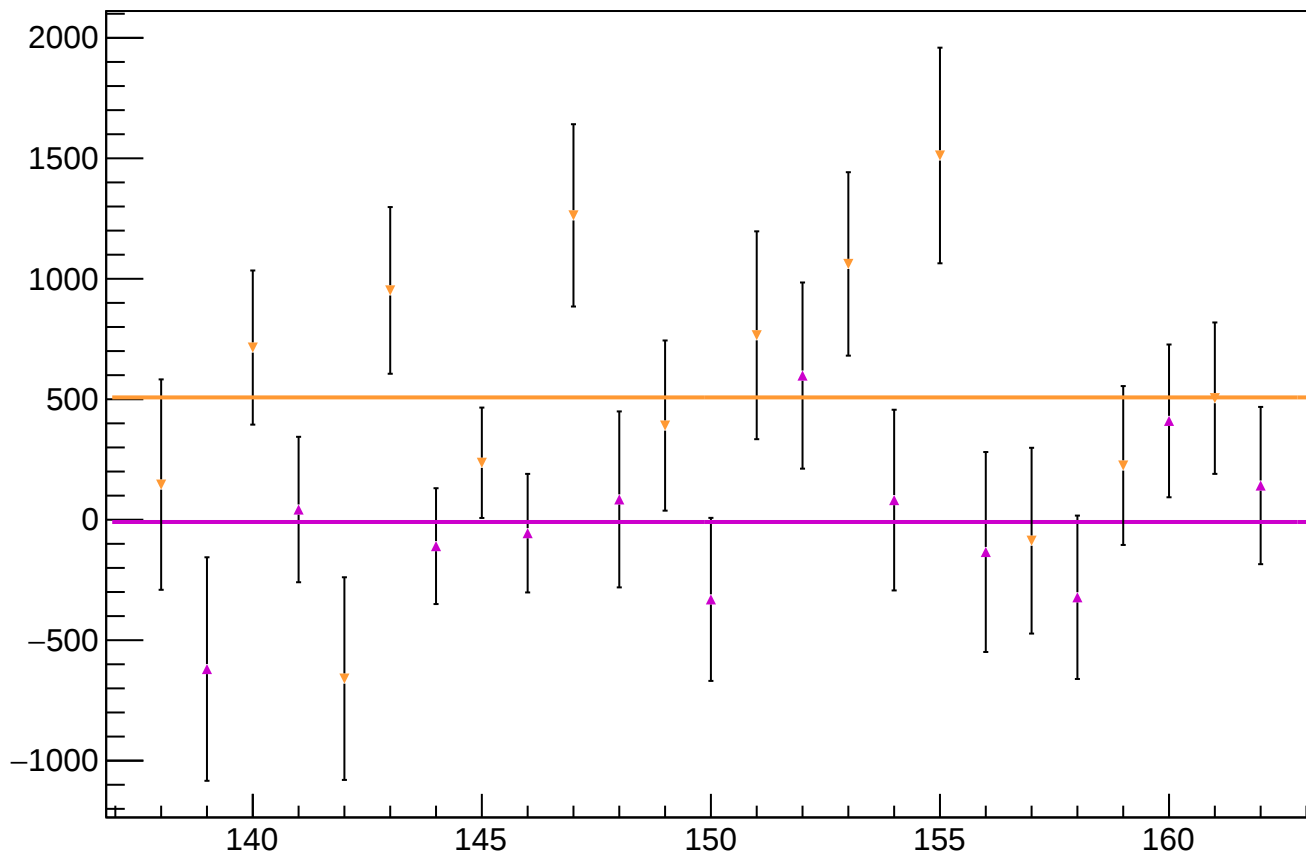
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 260.618+/-0.060  $\chi^2/\text{NDF}$ :945886.8/11

Out: 271.054+/-0.063  $\chi^2/\text{NDF}$ :789004.8/12

All: 265.636+/-0.044  $\chi^2/\text{NDF}$ : 1749246.0/24

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 507.682+/-96.941  $\chi^2/\text{NDF}$ :26.6/12

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

Left In: -9.388+/-93.933  $\chi^2/\text{NDF}$ :8.4/11

Left: 241.001+/-67.459  $\chi^2/\text{NDF}$ : 49.6/24

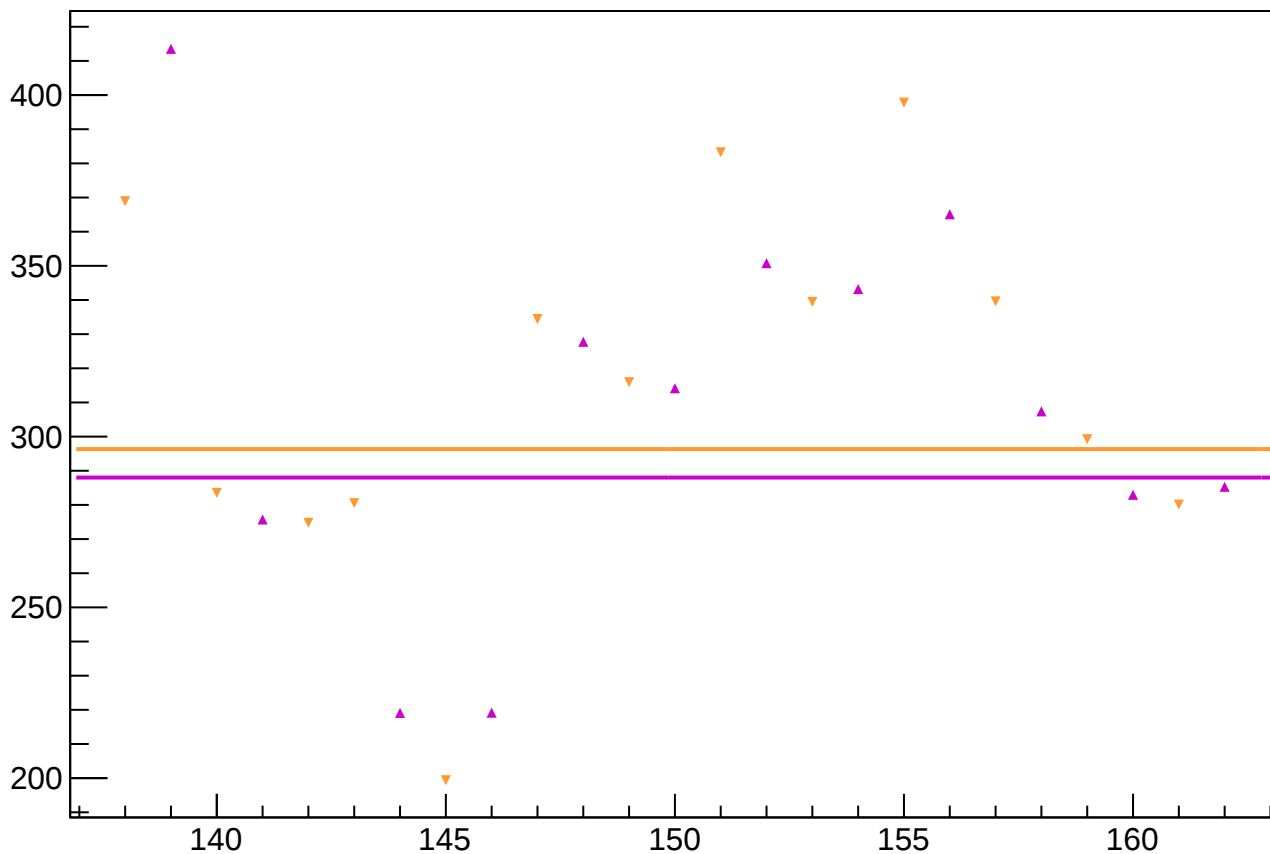
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -9.388+/-93.933  $\chi^2/\text{NDF}$ :8.4/11

Out: 507.682+/-96.941  $\chi^2/\text{NDF}$ :26.6/12

All: 241.001+/-67.459  $\chi^2/\text{NDF}$ : 49.6/24

# asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 296.347+/-0.069  $\chi^2/\text{NDF}$ : 692829.1/12

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

Left In: 288.010+/-0.066  $\chi^2/\text{NDF}$ : 678671.2/11

Left: 292.047+/-0.048  $\chi^2/\text{NDF}$ : 1379130.2/24

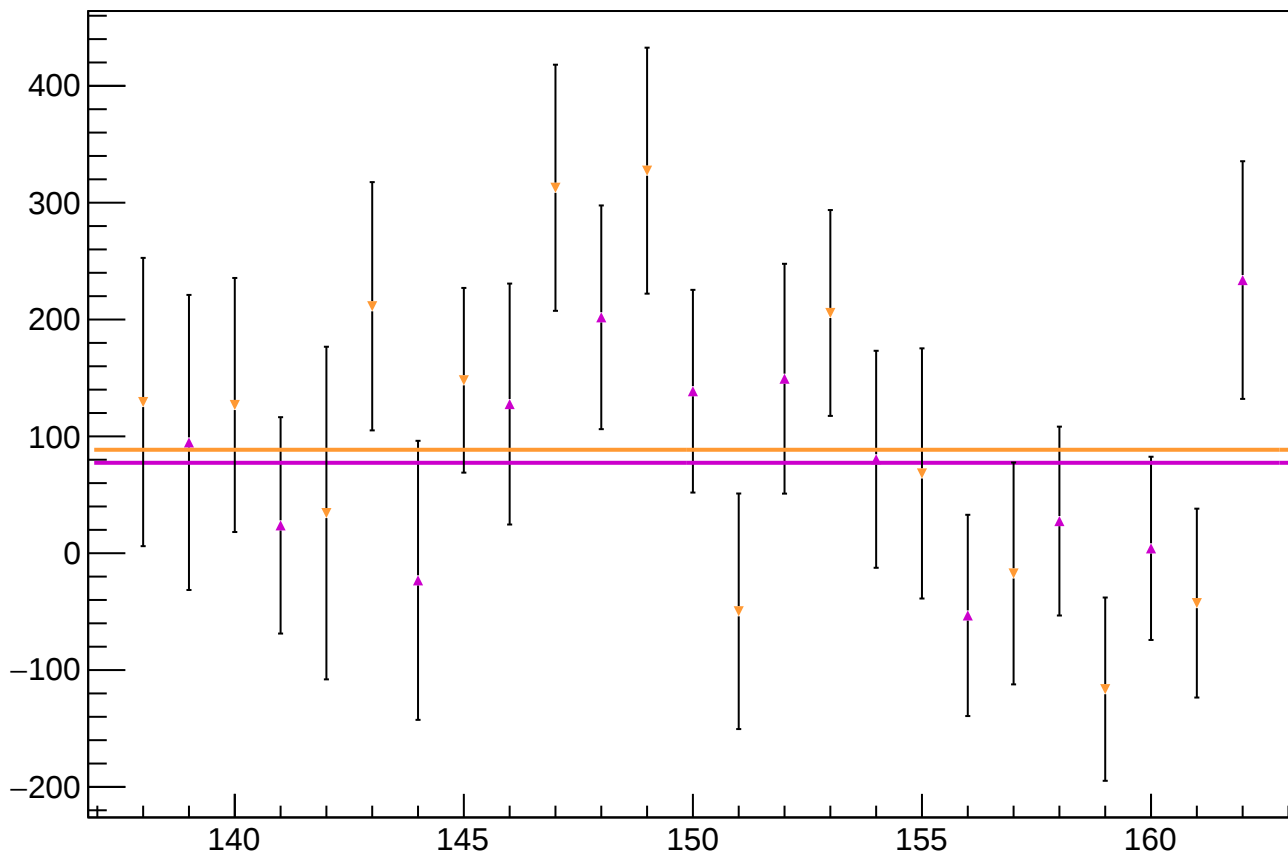
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 288.010+/-0.066  $\chi^2/\text{NDF}$ : 678671.2/11

Out: 296.347+/-0.069  $\chi^2/\text{NDF}$ : 692829.1/12

All: 292.047+/-0.048  $\chi^2/\text{NDF}$ : 1379130.2/24

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 88.543 $\pm$ 27.019  $\chi^2$ /NDF:26.3/12

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

Left In: 77.387 $\pm$ 27.194  $\chi^2$ /NDF:9.9/11

Left: 83.001 $\pm$ 19.167  $\chi^2$ /NDF: 36.4/24

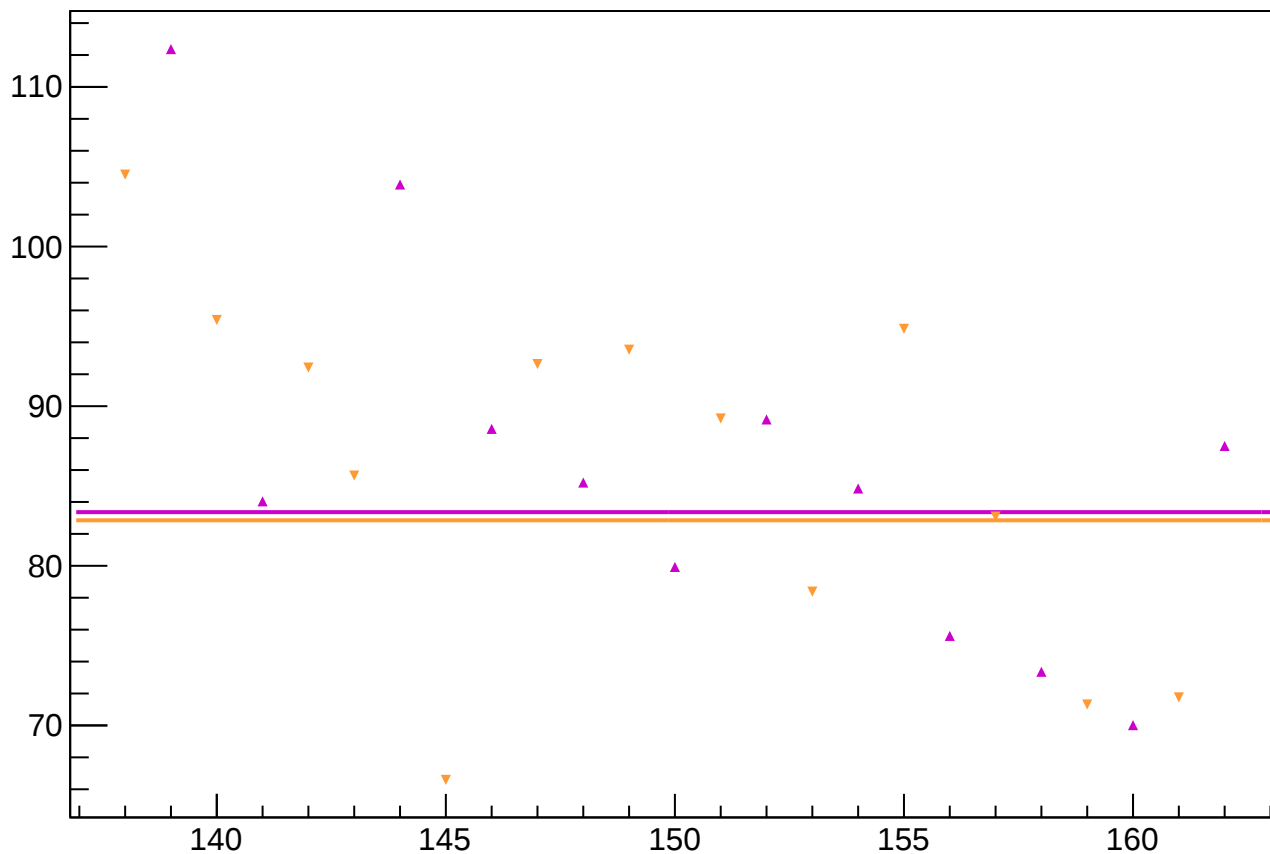
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 77.387 $\pm$ 27.194  $\chi^2$ /NDF:9.9/11

Out: 88.543 $\pm$ 27.019  $\chi^2$ /NDF:26.3/12

All: 83.001 $\pm$ 19.167  $\chi^2$ /NDF: 36.4/24

dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 82.851+/-0.019  $\chi^2/\text{NDF}$ :340542.9/12

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

Left In: 83.363+/-0.019  $\chi^2/\text{NDF}$ :289350.8/11

Left: 83.105+/-0.014  $\chi^2/\text{NDF}$ : 630250.4/24

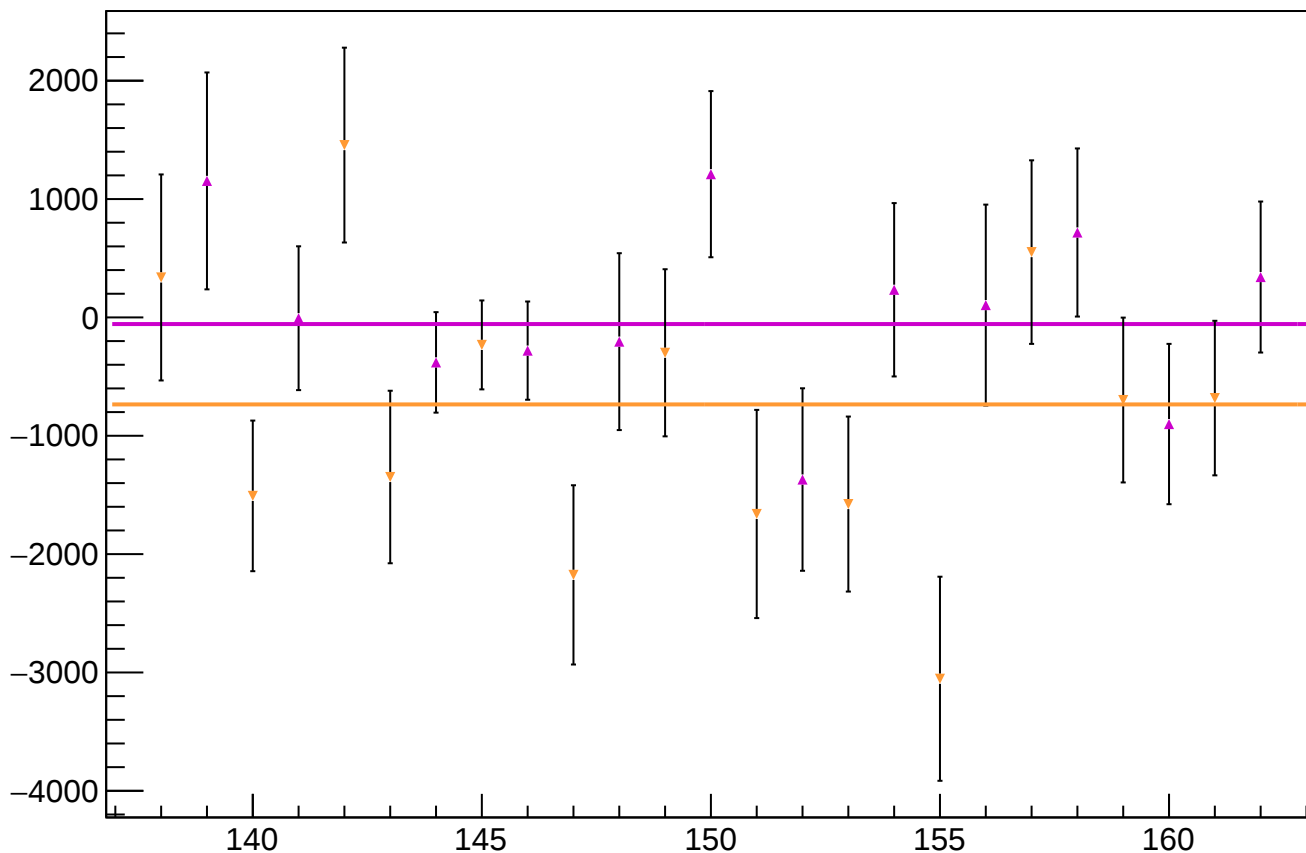
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 83.363+/-0.019  $\chi^2/\text{NDF}$ :289350.8/11

Out: 82.851+/-0.019  $\chi^2/\text{NDF}$ :340542.9/12

All: 83.105+/-0.014  $\chi^2/\text{NDF}$ : 630250.4/24

asym\_sam\_3726\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -735.098 $\pm$ 187.242  $\chi^2$ /NDF:29.0/12

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

Left In: -56.133 $\pm$ 180.697  $\chi^2$ /NDF:12.1/11

Left: -383.541 $\pm$ 130.024  $\chi^2$ /NDF: 47.9/24

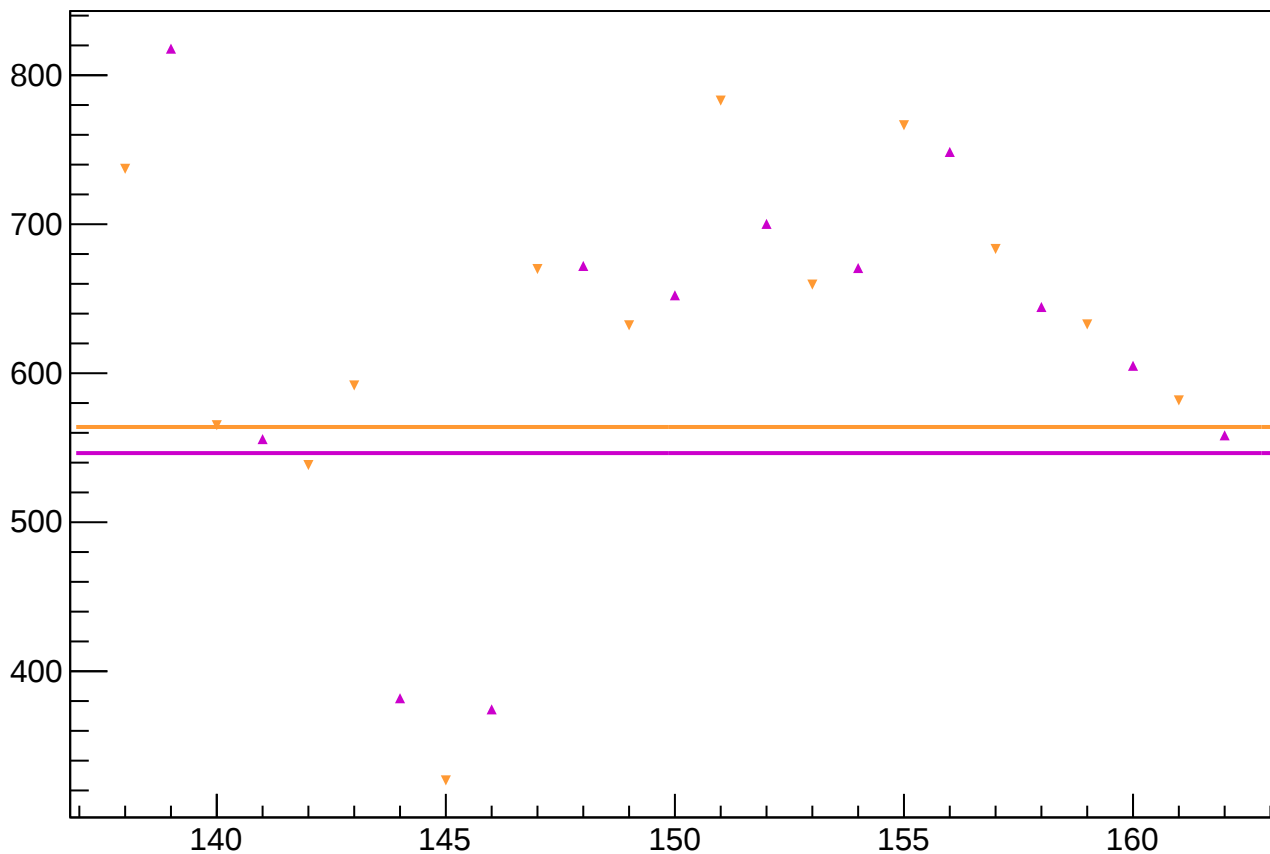
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -56.133 $\pm$ 180.697  $\chi^2$ /NDF:12.1/11

Out: -735.098 $\pm$ 187.242  $\chi^2$ /NDF:29.0/12

All: -383.541 $\pm$ 130.024  $\chi^2$ /NDF: 47.9/24

asym\_sam\_3726\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 563.929+/-0.132  $\chi^2/\text{NDF}$ :1275584.0/12

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

Left In: 546.406+/-0.128  $\chi^2/\text{NDF}$ :1226010.5/11

Left: 554.856+/-0.092  $\chi^2/\text{NDF}$ : 2510664.5/24

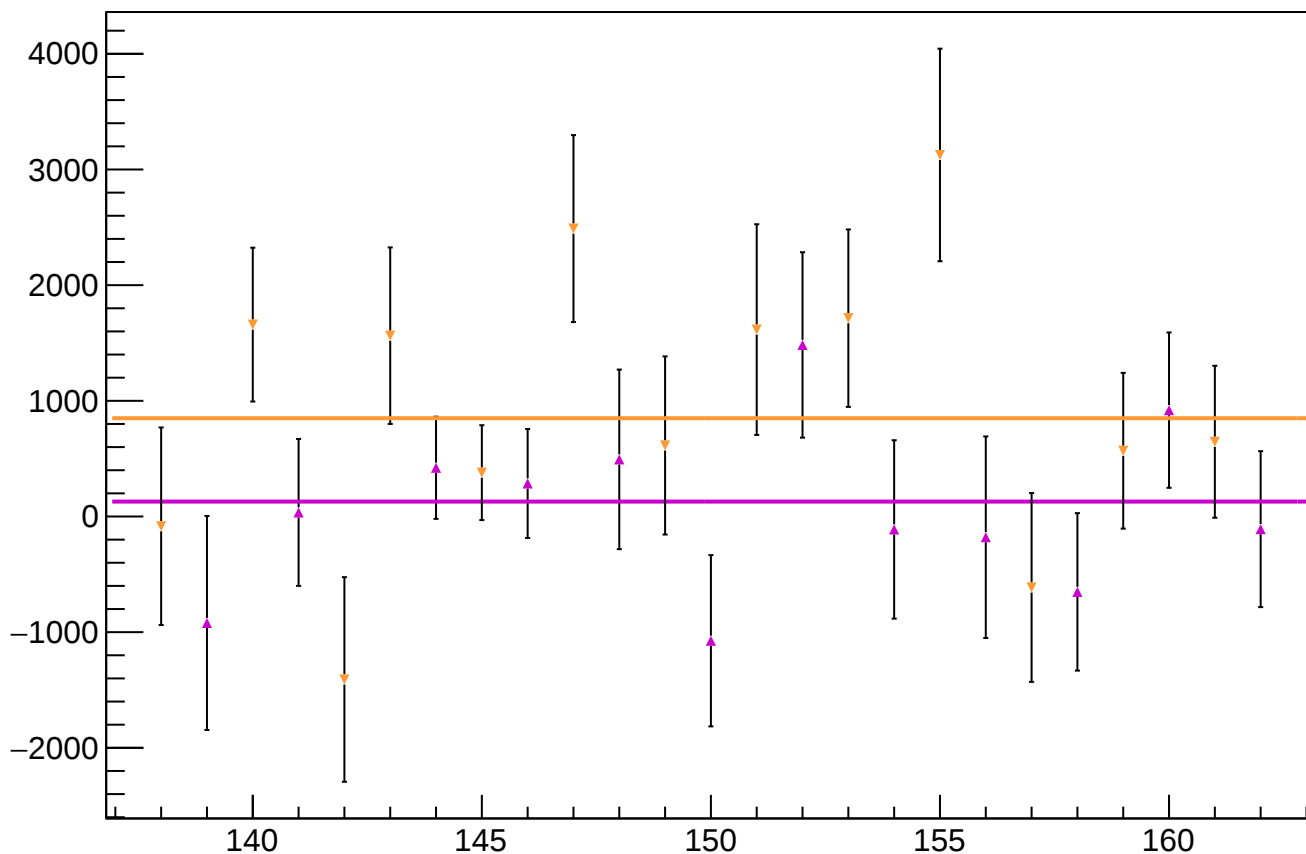
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 546.406+/-0.128  $\chi^2/\text{NDF}$ :1226010.5/11

Out: 563.929+/-0.132  $\chi^2/\text{NDF}$ :1275584.0/12

All: 554.856+/-0.092  $\chi^2/\text{NDF}$ : 2510664.5/24

# asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 849.746+/-196.478  $\chi^2/\text{NDF}$ : 27.2/12

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

Left In: 128.873+/-189.345  $\chi^2/\text{NDF}$ : 10.6/11

Left: 475.986+/-136.339  $\chi^2/\text{NDF}$ : 44.8/24

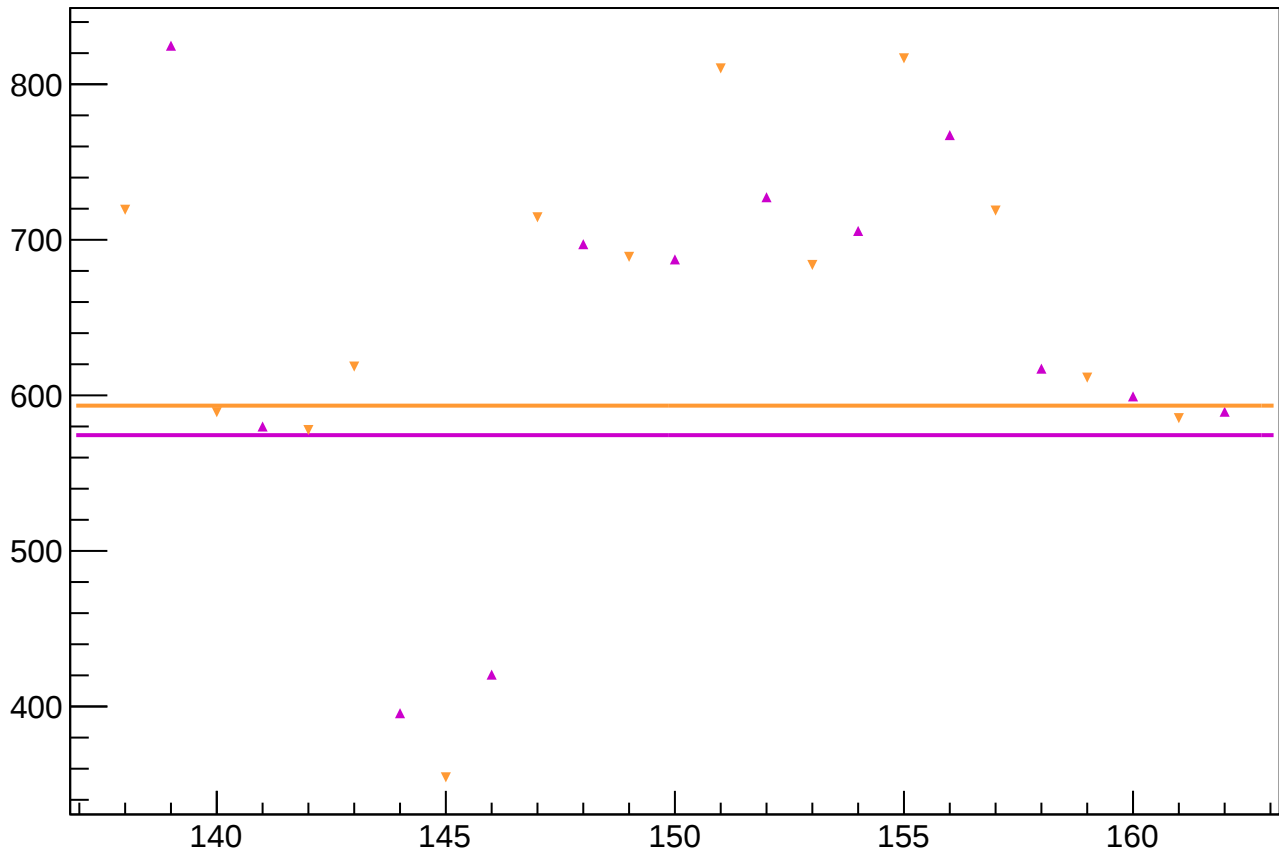
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 128.873+/-189.345  $\chi^2/\text{NDF}$ : 10.6/11

Out: 849.746+/-196.478  $\chi^2/\text{NDF}$ : 27.2/12

All: 475.986+/-136.339  $\chi^2/\text{NDF}$ : 44.8/24

# asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 593.398+/-0.139  $\chi^2/\text{NDF}$ :1109430.7/12

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

Left In: 574.423+/-0.134  $\chi^2/\text{NDF}$ :1024761.7/11

Left: 583.560+/-0.096  $\chi^2/\text{NDF}$ : 2143863.9/24

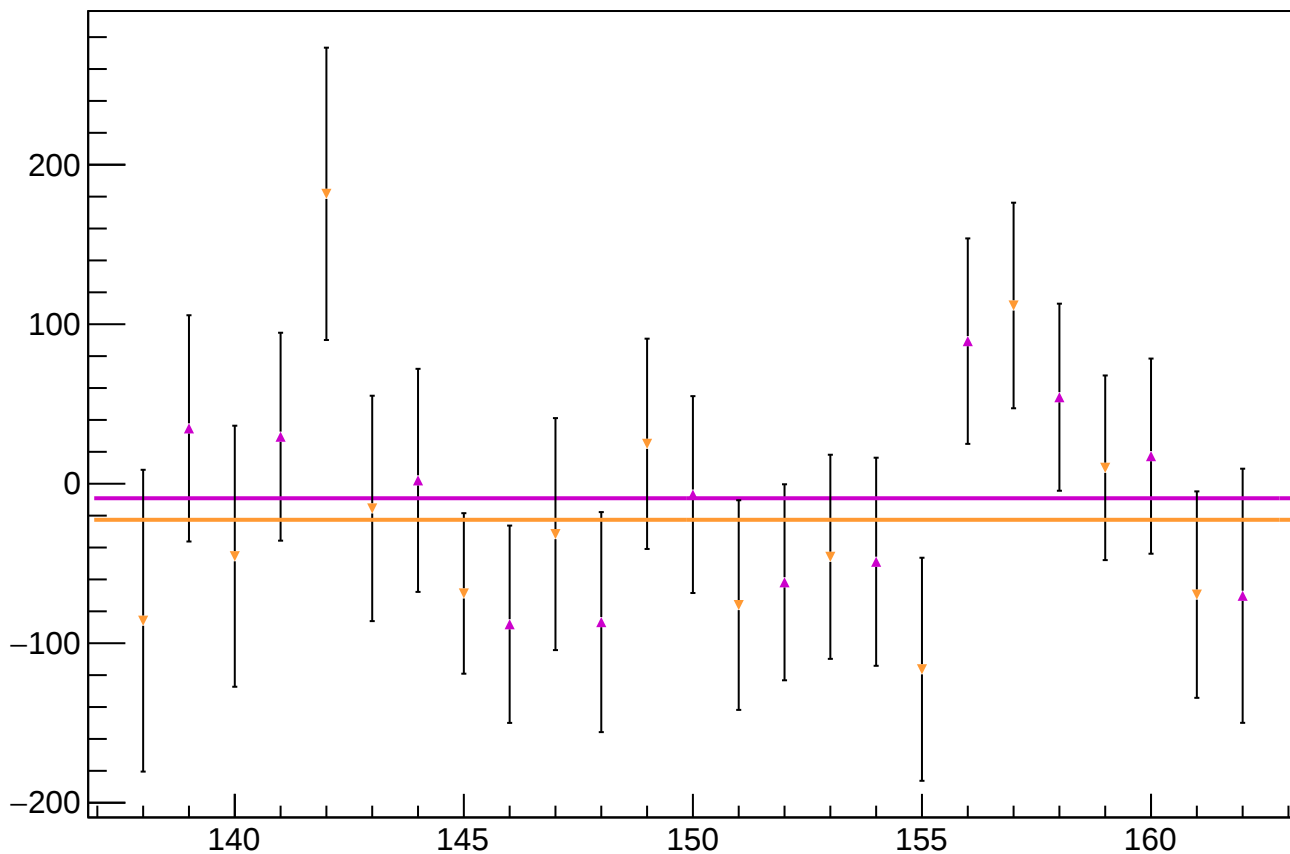
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 574.423+/-0.134  $\chi^2/\text{NDF}$ :1024761.7/11

Out: 593.398+/-0.139  $\chi^2/\text{NDF}$ :1109430.7/12

All: 583.560+/-0.096  $\chi^2/\text{NDF}$ : 2143863.9/24

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -22.616+/-18.722  $\chi^2/\text{NDF}$ :14.7/12

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

Left In: -9.106+/-18.800  $\chi^2/\text{NDF}$ :9.0/11

Left: -15.889+/-13.266  $\chi^2/\text{NDF}$ : 24.0/24

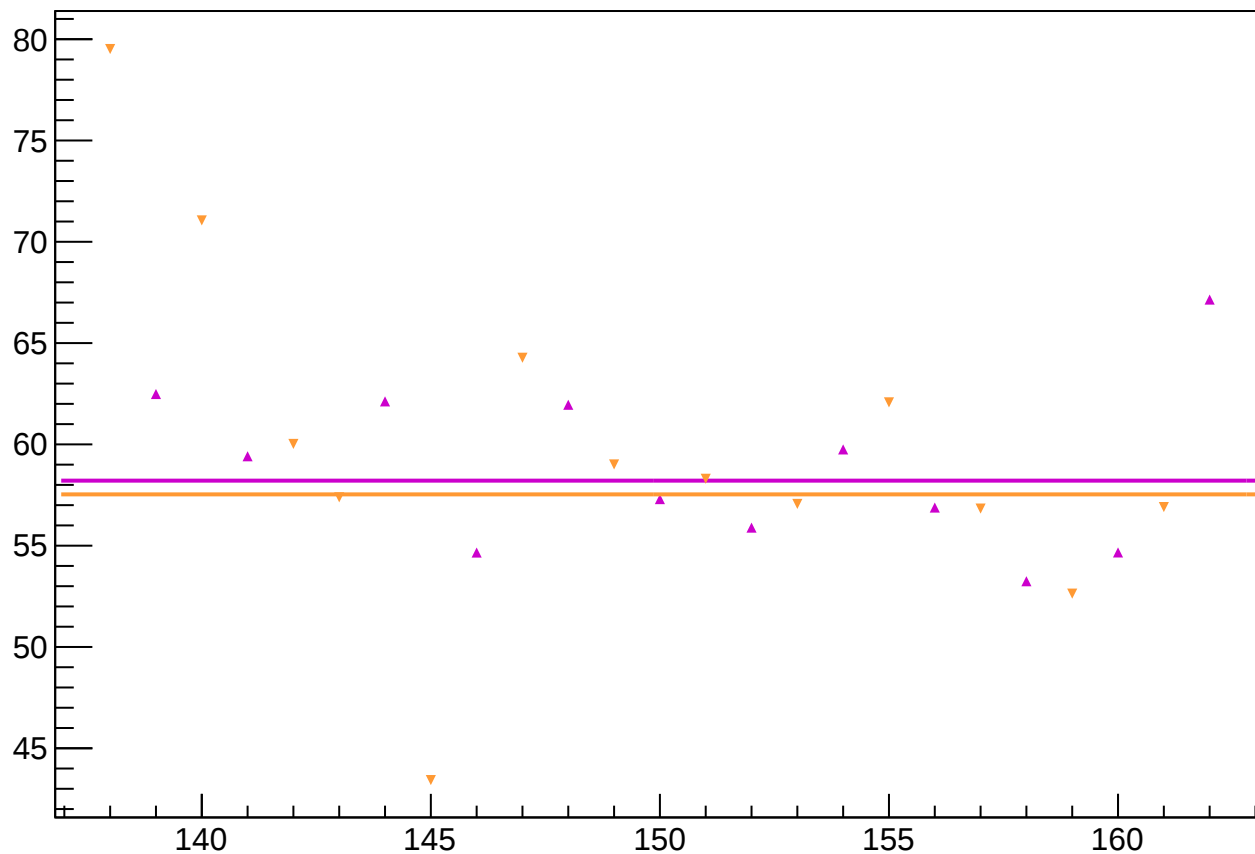
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -9.106+/-18.800  $\chi^2/\text{NDF}$ :9.0/11

Out: -22.616+/-18.722  $\chi^2/\text{NDF}$ :14.7/12

All: -15.889+/-13.266  $\chi^2/\text{NDF}$ : 24.0/24

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 57.532+/-0.013  $\chi^2/\text{NDF}$ :362941.2/12

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

Left In: 58.210+/-0.013  $\chi^2/\text{NDF}$ :78172.6/11

Left: 57.870+/-0.009  $\chi^2/\text{NDF}$ : 442419.4/24

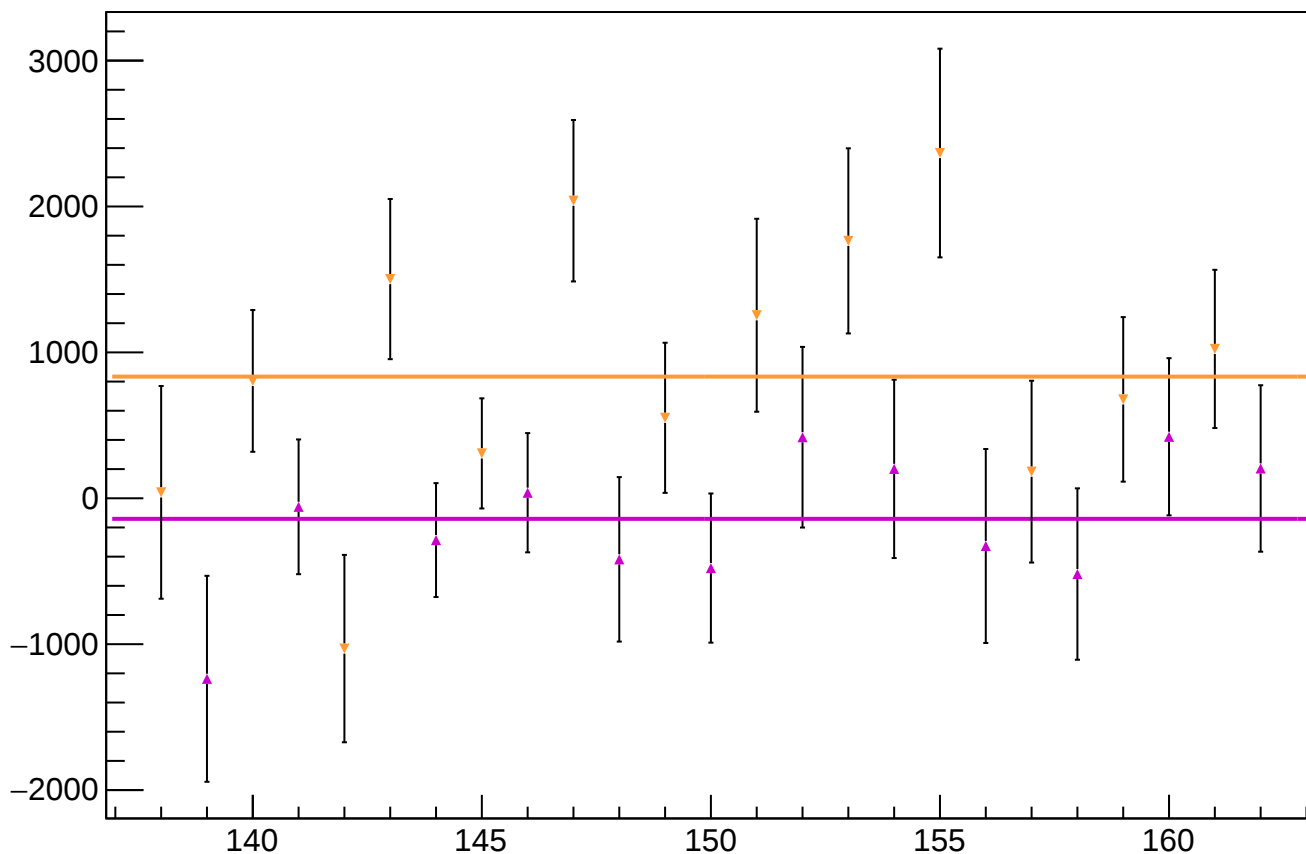
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 58.210+/-0.013  $\chi^2/\text{NDF}$ :78172.6/11

Out: 57.532+/-0.013  $\chi^2/\text{NDF}$ :362941.2/12

All: 57.870+/-0.009  $\chi^2/\text{NDF}$ : 442419.4/24

asym\_sam\_15\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out:  $834.037 \pm 154.725$   $\chi^2/\text{NDF}: 26.5/12$

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

Left In:  $-140.977 \pm 152.175$   $\chi^2/\text{NDF}: 6.5/11$

Left:  $338.430 \pm 108.494$   $\chi^2/\text{NDF}: 53.2/24$

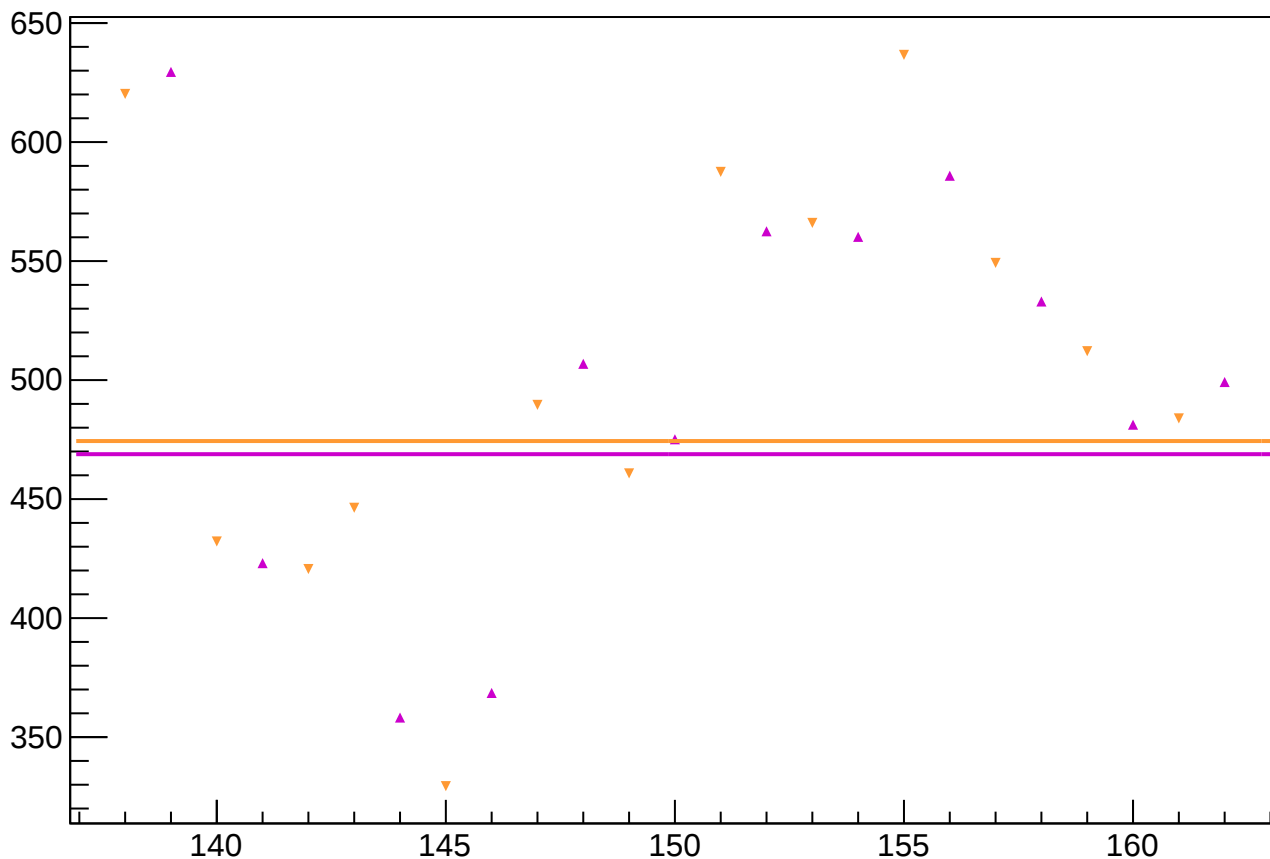
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-140.977 \pm 152.175$   $\chi^2/\text{NDF}: 6.5/11$

Out:  $834.037 \pm 154.725$   $\chi^2/\text{NDF}: 26.5/12$

All:  $338.430 \pm 108.494$   $\chi^2/\text{NDF}: 53.2/24$

asym\_sam\_15\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 474.390+/-0.109  $\chi^2/\text{NDF}$ : 653965.3/12

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

Left In: 468.872+/-0.108  $\chi^2/\text{NDF}$ : 596625.8/11

Left: 471.585+/-0.077  $\chi^2/\text{NDF}$ : 1251884.0/24

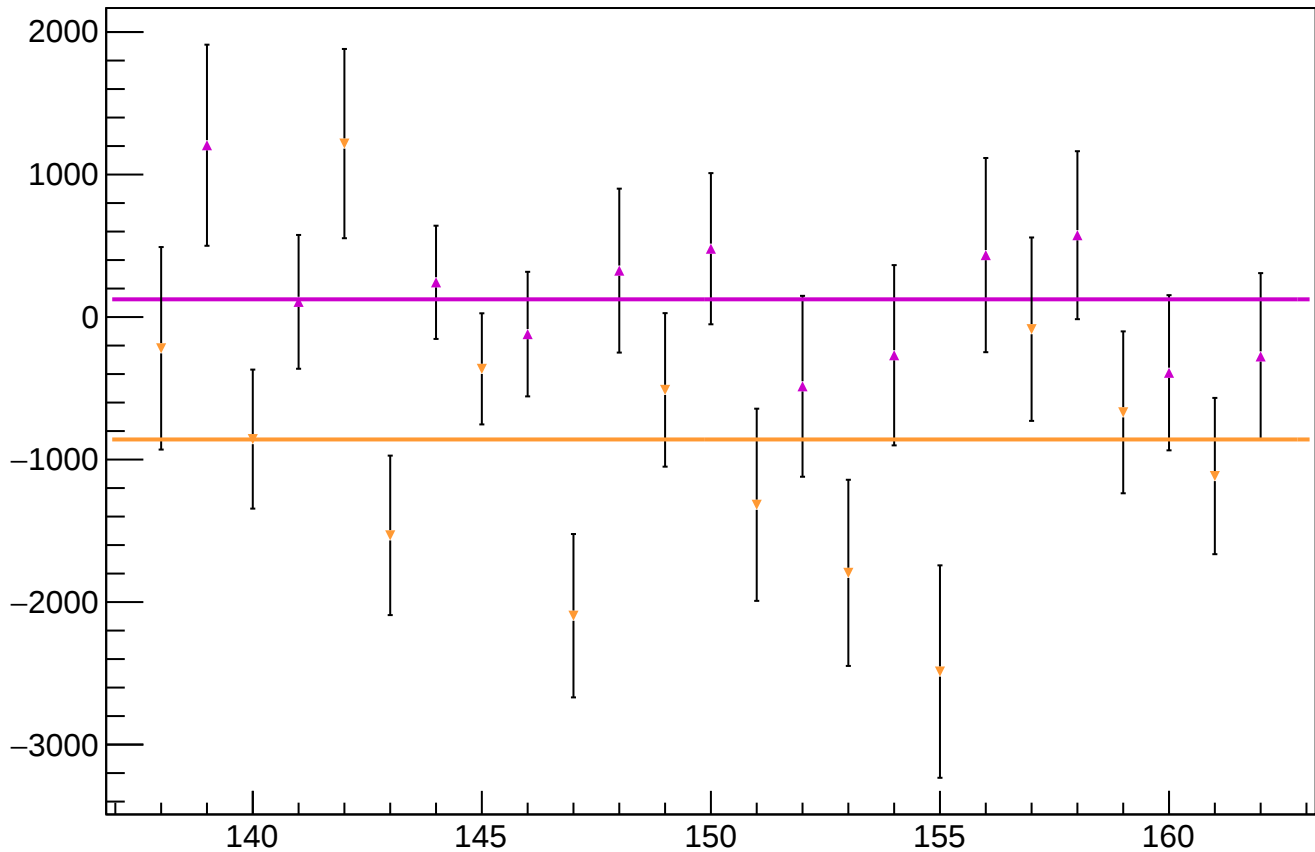
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 468.872+/-0.108  $\chi^2/\text{NDF}$ : 596625.8/11

Out: 474.390+/-0.109  $\chi^2/\text{NDF}$ : 653965.3/12

All: 471.585+/-0.077  $\chi^2/\text{NDF}$ : 1251884.0/24

asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -858.915+/-158.323  $\chi^2/\text{NDF}$ :27.8/12

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

Left In: 124.423+/-156.167  $\chi^2/\text{NDF}$ :6.8/11

Left: -360.504+/-111.181  $\chi^2/\text{NDF}$ : 54.1/24

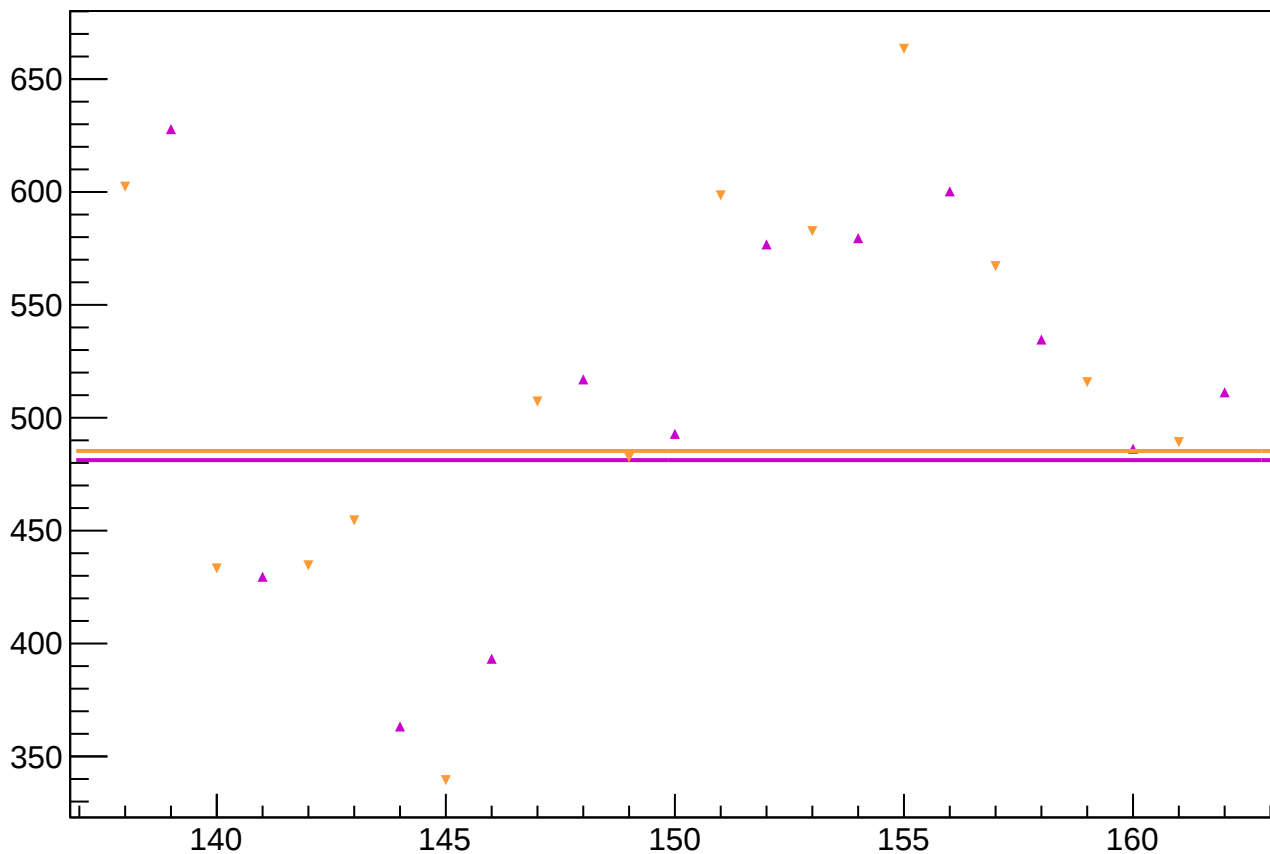
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 124.423+/-156.167  $\chi^2/\text{NDF}$ :6.8/11

Out: -858.915+/-158.323  $\chi^2/\text{NDF}$ :27.8/12

All: -360.504+/-111.181  $\chi^2/\text{NDF}$ : 54.1/24

# asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 485.290+/-0.112  $\chi^2/\text{NDF}$ :630588.0/12

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

Left In: 481.233+/-0.110  $\chi^2/\text{NDF}$ :553194.7/11

Left: 483.233+/-0.079  $\chi^2/\text{NDF}$ : 1184448.3/24

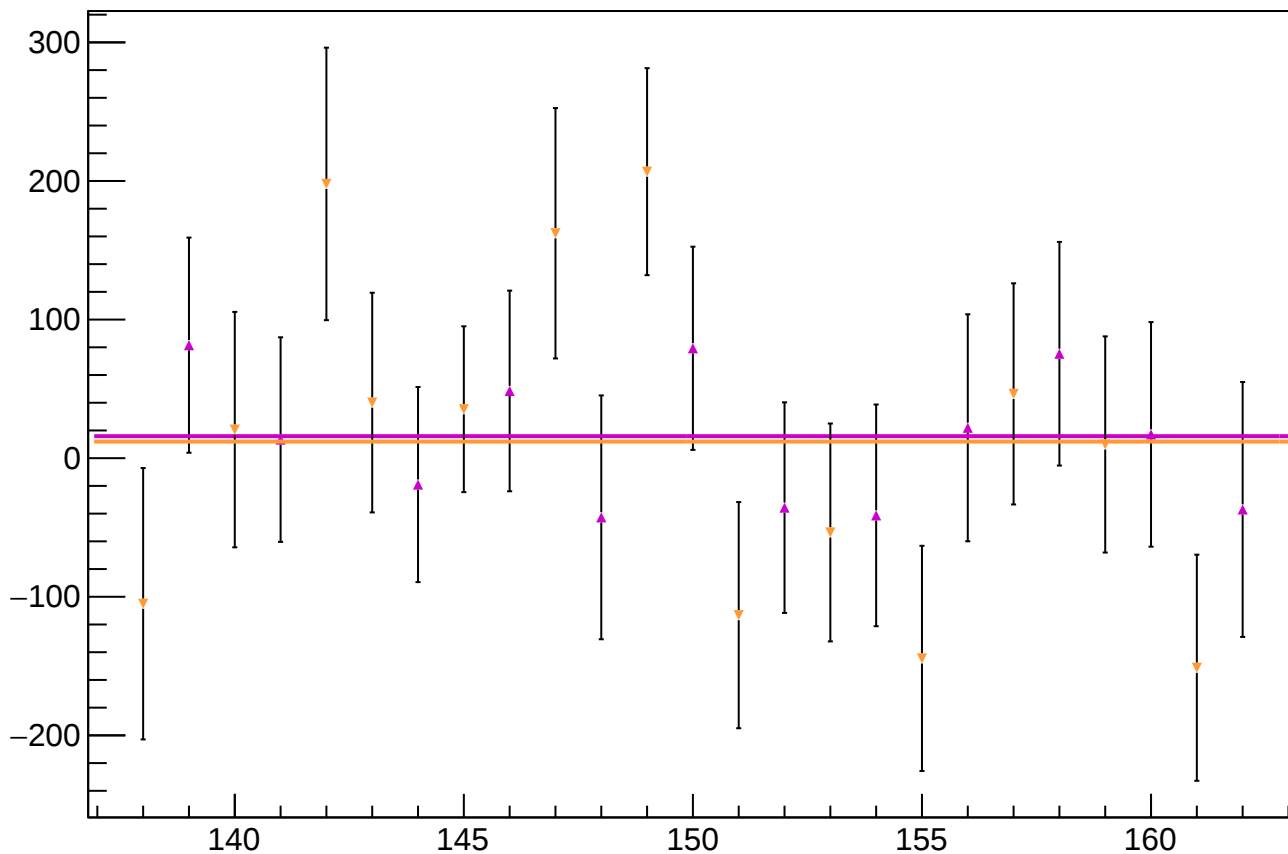
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 481.233+/-0.110  $\chi^2/\text{NDF}$ :553194.7/11

Out: 485.290+/-0.112  $\chi^2/\text{NDF}$ :630588.0/12

All: 483.233+/-0.079  $\chi^2/\text{NDF}$ : 1184448.3/24

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 11.980+/-22.237  $\chi^2/\text{NDF}$ :25.8/12

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

Left In: 15.869+/-22.585  $\chi^2/\text{NDF}$ :4.2/11

Left: 13.894+/-15.846  $\chi^2/\text{NDF}$ : 30.0/24

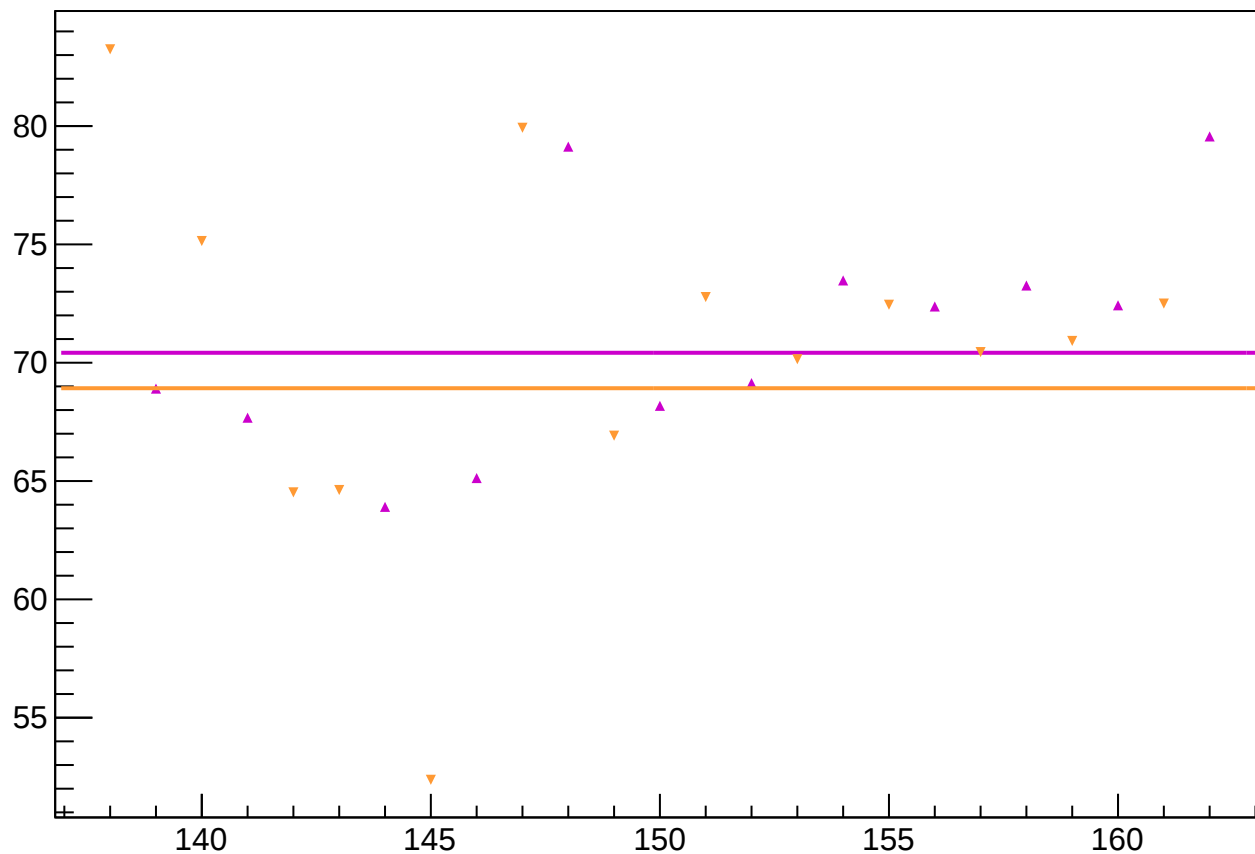
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 15.869+/-22.585  $\chi^2/\text{NDF}$ :4.2/11

Out: 11.980+/-22.237  $\chi^2/\text{NDF}$ :25.8/12

All: 13.894+/-15.846  $\chi^2/\text{NDF}$ : 30.0/24

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 68.922 $\pm$ 0.016  $\chi^2/\text{NDF}$ :262180.9/12

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

Left In: 70.420 $\pm$ 0.016  $\chi^2/\text{NDF}$ :80915.1/11

Left: 69.660 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 347564.4/24

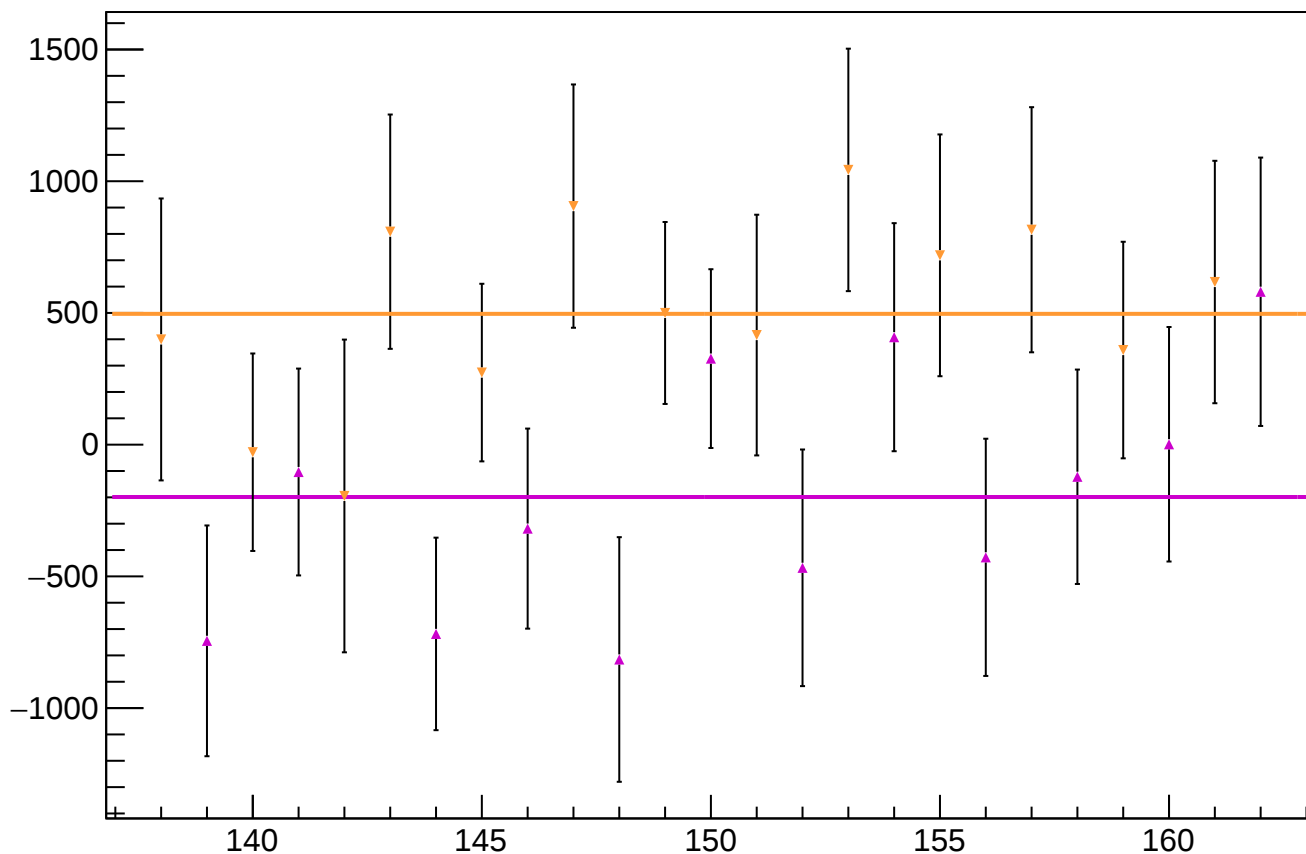
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 70.420 $\pm$ 0.016  $\chi^2/\text{NDF}$ :80915.1/11

Out: 68.922 $\pm$ 0.016  $\chi^2/\text{NDF}$ :262180.9/12

All: 69.660 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 347564.4/24

asym\_sam\_37\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 496.565+/-119.605  $\chi^2/\text{NDF}$ : 7.4/12

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

Left In: -198.705+/-119.850  $\chi^2/\text{NDF}$ : 13.1/11

Left: 149.643+/-84.660  $\chi^2/\text{NDF}$ : 37.3/24

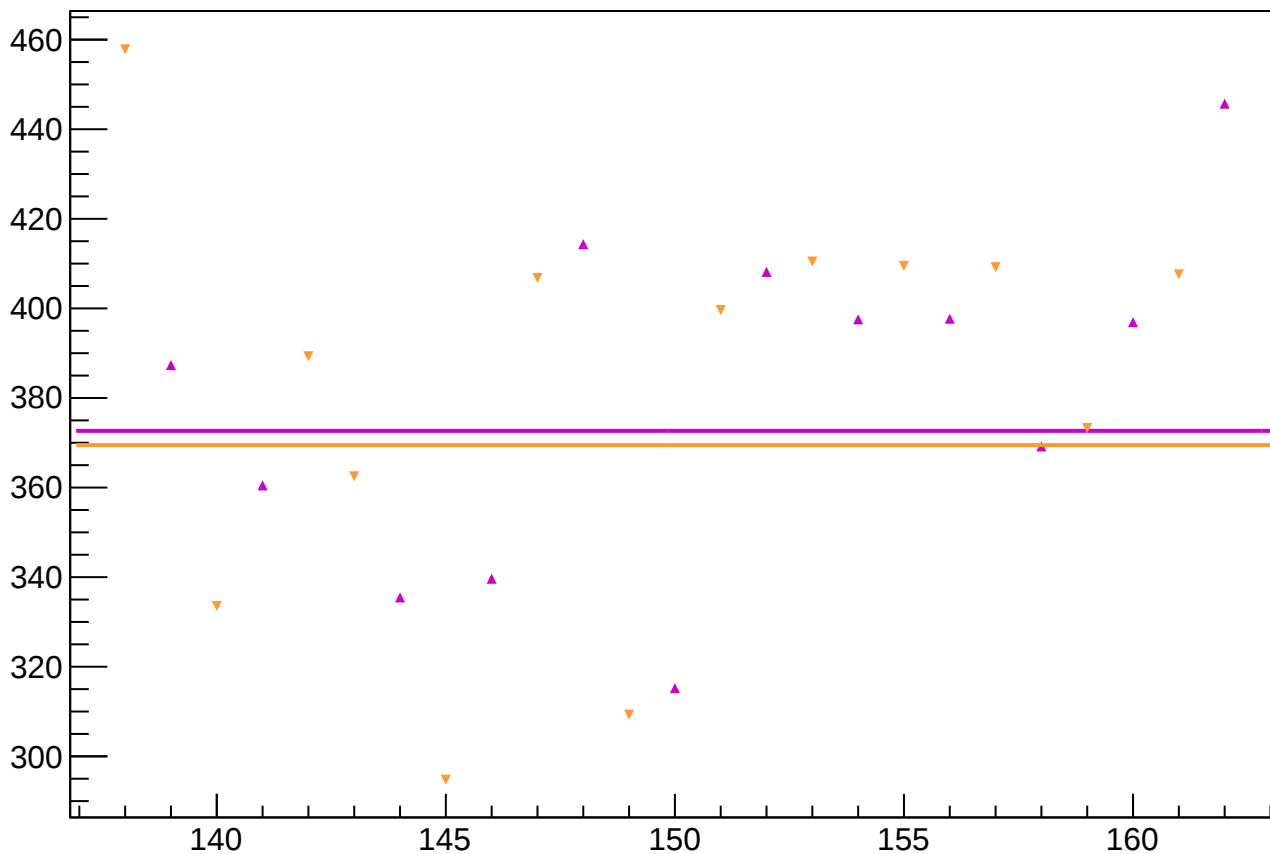
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -198.705+/-119.850  $\chi^2/\text{NDF}$ : 13.1/11

Out: 496.565+/-119.605  $\chi^2/\text{NDF}$ : 7.4/12

All: 149.643+/-84.660  $\chi^2/\text{NDF}$ : 37.3/24

asym\_sam\_37\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 369.485+/-0.085  $\chi^2/\text{NDF}$ :315894.3/12

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

Left In: 372.665+/-0.085  $\chi^2/\text{NDF}$ :185932.3/11

Left: 371.072+/-0.060  $\chi^2/\text{NDF}$ : 502532.4/24

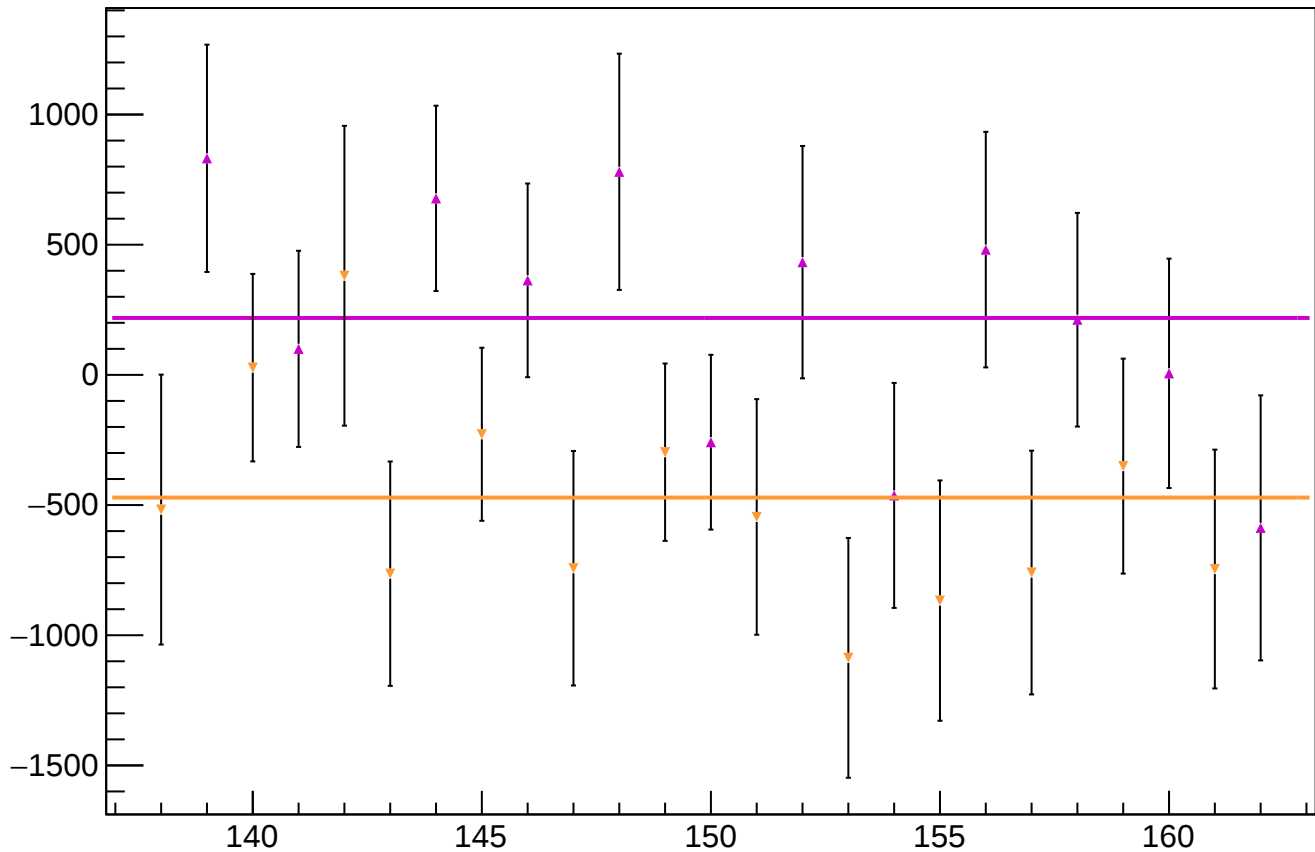
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 372.665+/-0.085  $\chi^2/\text{NDF}$ :185932.3/11

Out: 369.485+/-0.085  $\chi^2/\text{NDF}$ :315894.3/12

All: 371.072+/-0.060  $\chi^2/\text{NDF}$ : 502532.4/24

asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -471.167+/-117.921  $\chi^2/\text{NDF}$ : 9.1/12

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

Left In: 218.686+/-118.376  $\chi^2/\text{NDF}$ : 13.2/11

Left: -127.568+/-83.543  $\chi^2/\text{NDF}$ : 39.4/24

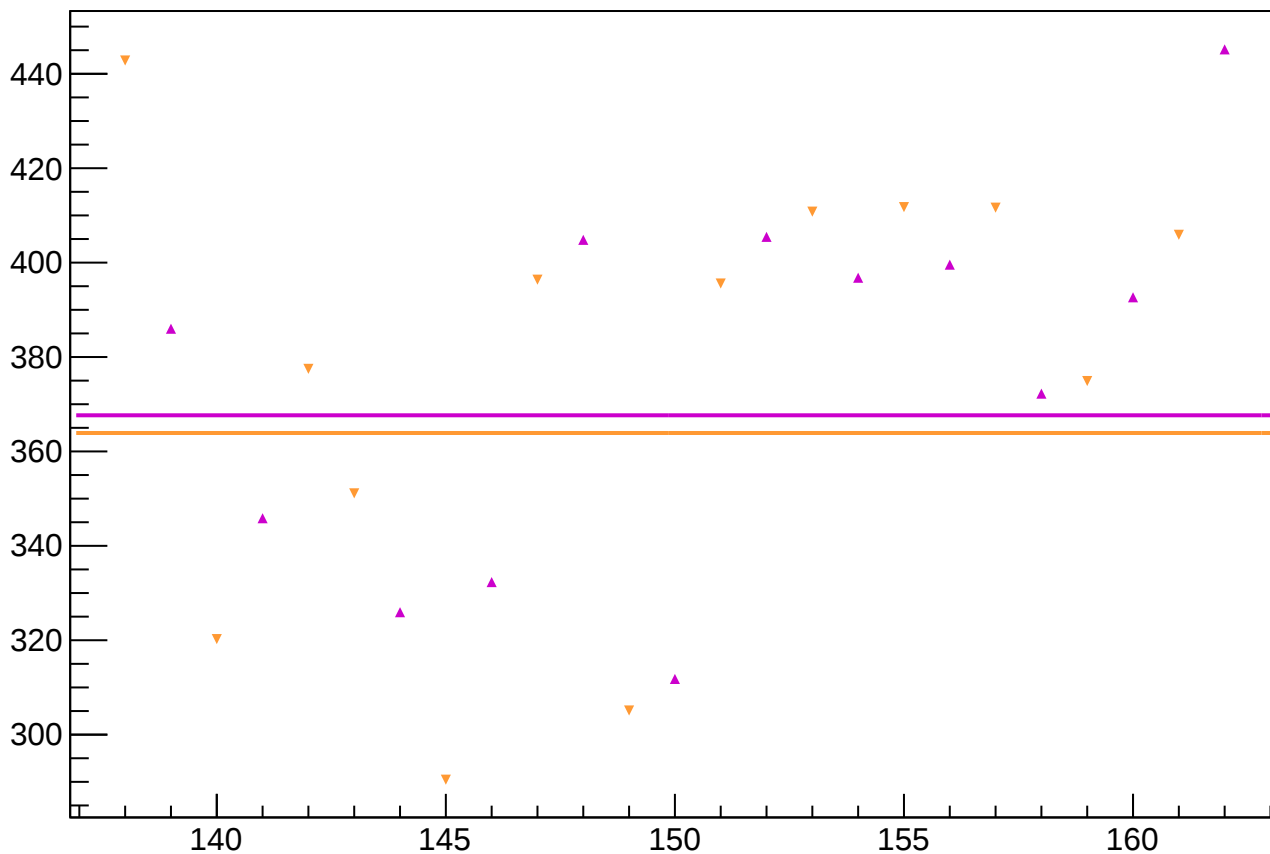
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 218.686+/-118.376  $\chi^2/\text{NDF}$ : 13.2/11

Out: -471.167+/-117.921  $\chi^2/\text{NDF}$ : 9.1/12

All: -127.568+/-83.543  $\chi^2/\text{NDF}$ : 39.4/24

# asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 363.907+/-0.083  $\chi^2/\text{NDF}$ :337287.7/12

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

Left In: 367.656+/-0.084  $\chi^2/\text{NDF}$ :211043.5/11

Left: 365.774+/-0.059  $\chi^2/\text{NDF}$ : 549338.1/24

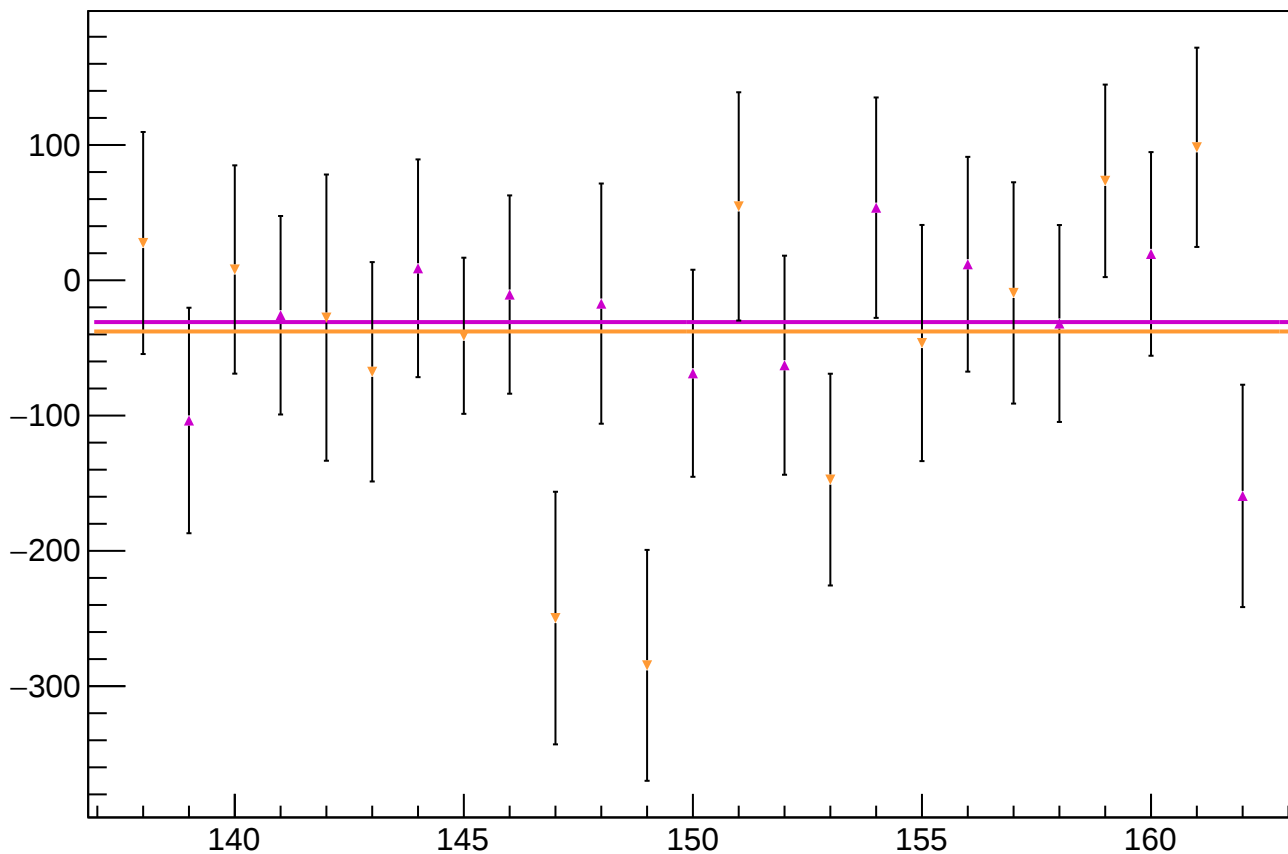
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 367.656+/-0.084  $\chi^2/\text{NDF}$ :211043.5/11

Out: 363.907+/-0.083  $\chi^2/\text{NDF}$ :337287.7/12

All: 365.774+/-0.059  $\chi^2/\text{NDF}$ : 549338.1/24

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-37.834 \pm 21.939$   $\chi^2/\text{NDF}: 23.8/12$

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

Left In:  $-30.896 \pm 22.684$   $\chi^2/\text{NDF}: 5.8/11$

Left:  $-34.481 \pm 15.770$   $\chi^2/\text{NDF}: 29.6/24$

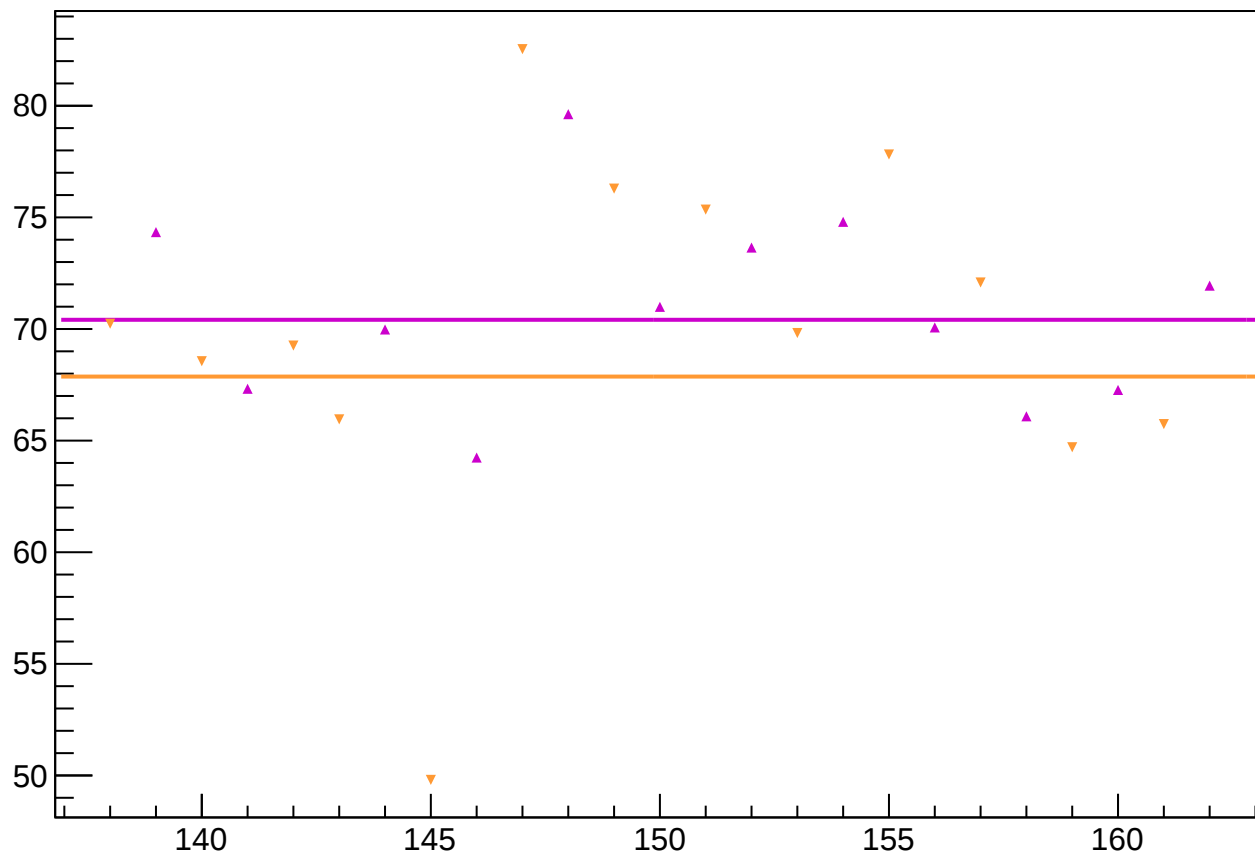
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-30.896 \pm 22.684$   $\chi^2/\text{NDF}: 5.8/11$

Out:  $-37.834 \pm 21.939$   $\chi^2/\text{NDF}: 23.8/12$

All:  $-34.481 \pm 15.770$   $\chi^2/\text{NDF}: 29.6/24$

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 67.869 $\pm$ 0.016  $\chi^2/\text{NDF}$ :322119.7/12

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

Left In: 70.413 $\pm$ 0.016  $\chi^2/\text{NDF}$ :64154.7/11

Left: 69.098 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 399267.6/24

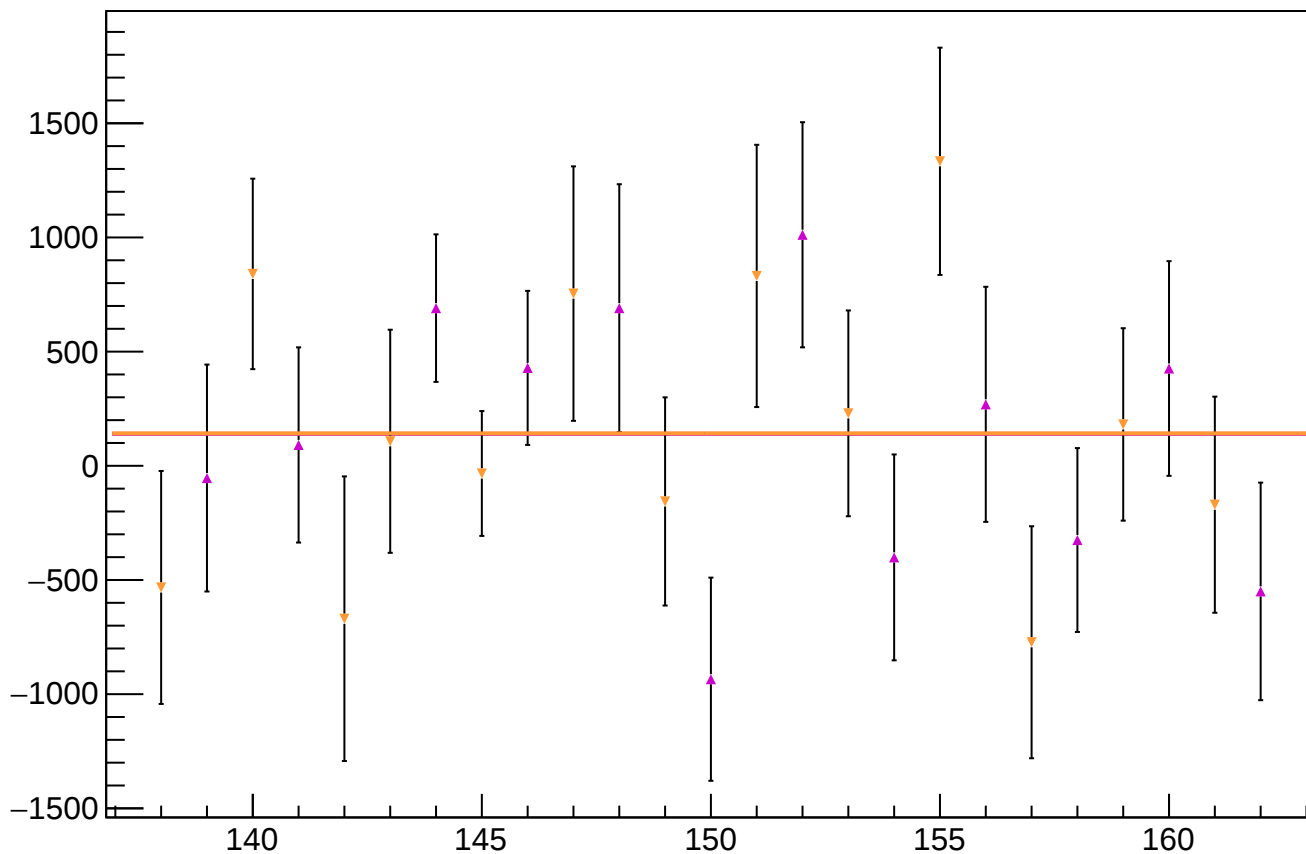
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 70.413 $\pm$ 0.016  $\chi^2/\text{NDF}$ :64154.7/11

Out: 67.869 $\pm$ 0.016  $\chi^2/\text{NDF}$ :322119.7/12

All: 69.098 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 399267.6/24

asym\_sam\_15\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 141.816+/-125.247  $\chi^2/\text{NDF}$ :19.2/12

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

Left In: 139.994+/-124.750  $\chi^2/\text{NDF}$ :19.1/11

Left: 140.902+/-88.387  $\chi^2/\text{NDF}$ : 38.3/24

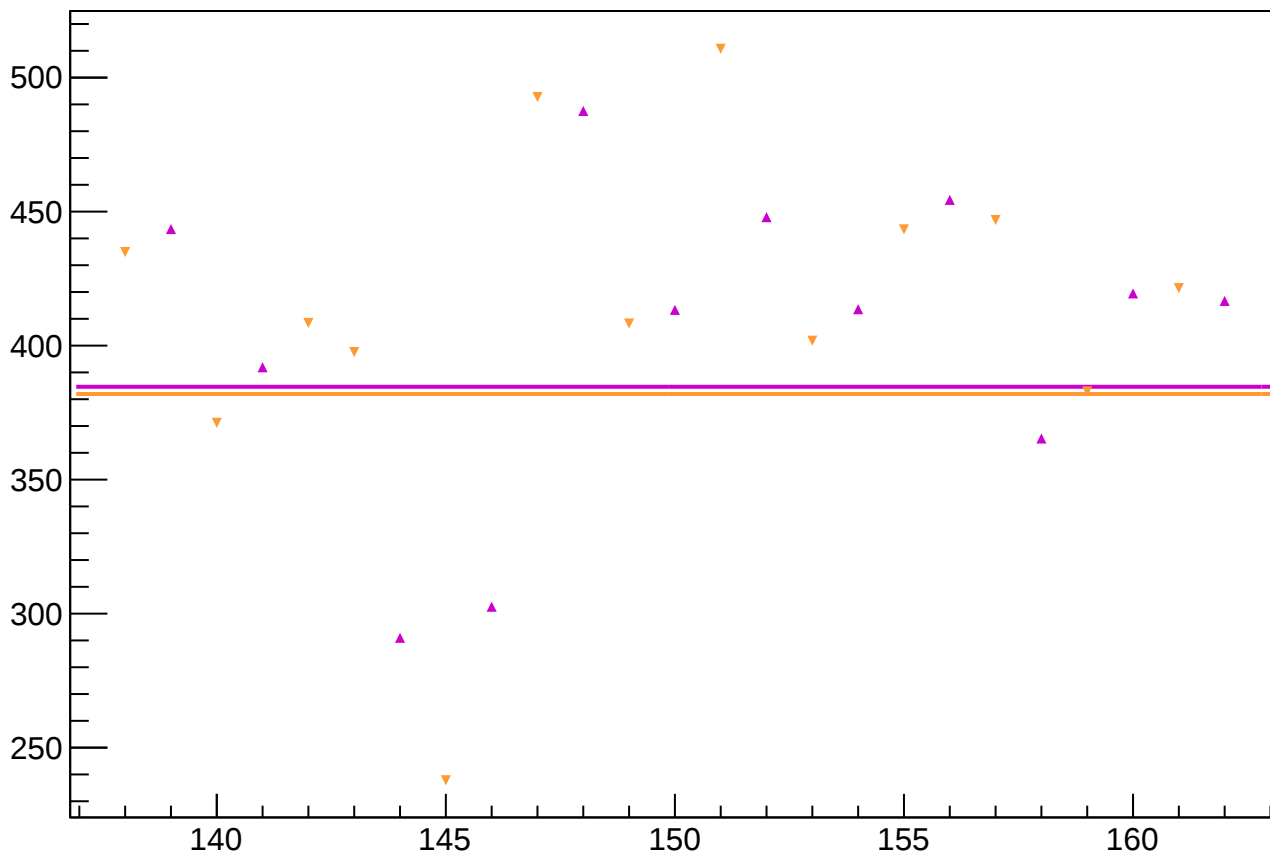
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 139.994+/-124.750  $\chi^2/\text{NDF}$ :19.1/11

Out: 141.816+/-125.247  $\chi^2/\text{NDF}$ :19.2/12

All: 140.902+/-88.387  $\chi^2/\text{NDF}$ : 38.3/24

asym\_sam\_15\_26\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 381.947+/-0.089  $\chi^2/\text{NDF}$ : 852080.2/12

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

Left In: 384.647+/-0.088  $\chi^2/\text{NDF}$ : 497935.8/11

Left: 383.302+/-0.062  $\chi^2/\text{NDF}$ : 1350482.6/24

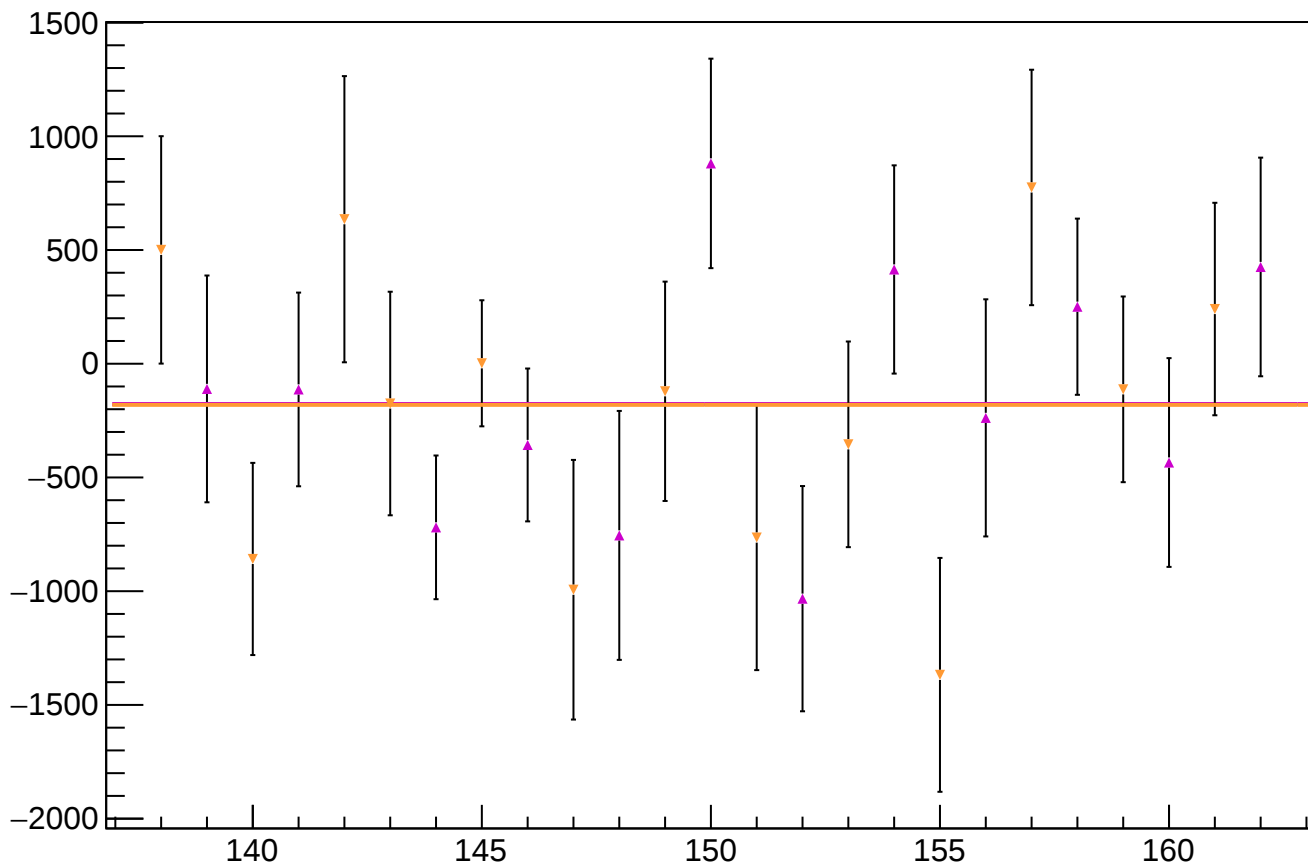
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 384.647+/-0.088  $\chi^2/\text{NDF}$ : 497935.8/11

Out: 381.947+/-0.089  $\chi^2/\text{NDF}$ : 852080.2/12

All: 383.302+/-0.062  $\chi^2/\text{NDF}$ : 1350482.6/24

asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -180.688+/-126.382  $\chi^2/\text{NDF}$ : 19.3/12

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

Left In: -177.123+/-124.275  $\chi^2/\text{NDF}$ : 17.4/11

Left: -178.876+/-88.611  $\chi^2/\text{NDF}$ : 36.8/24

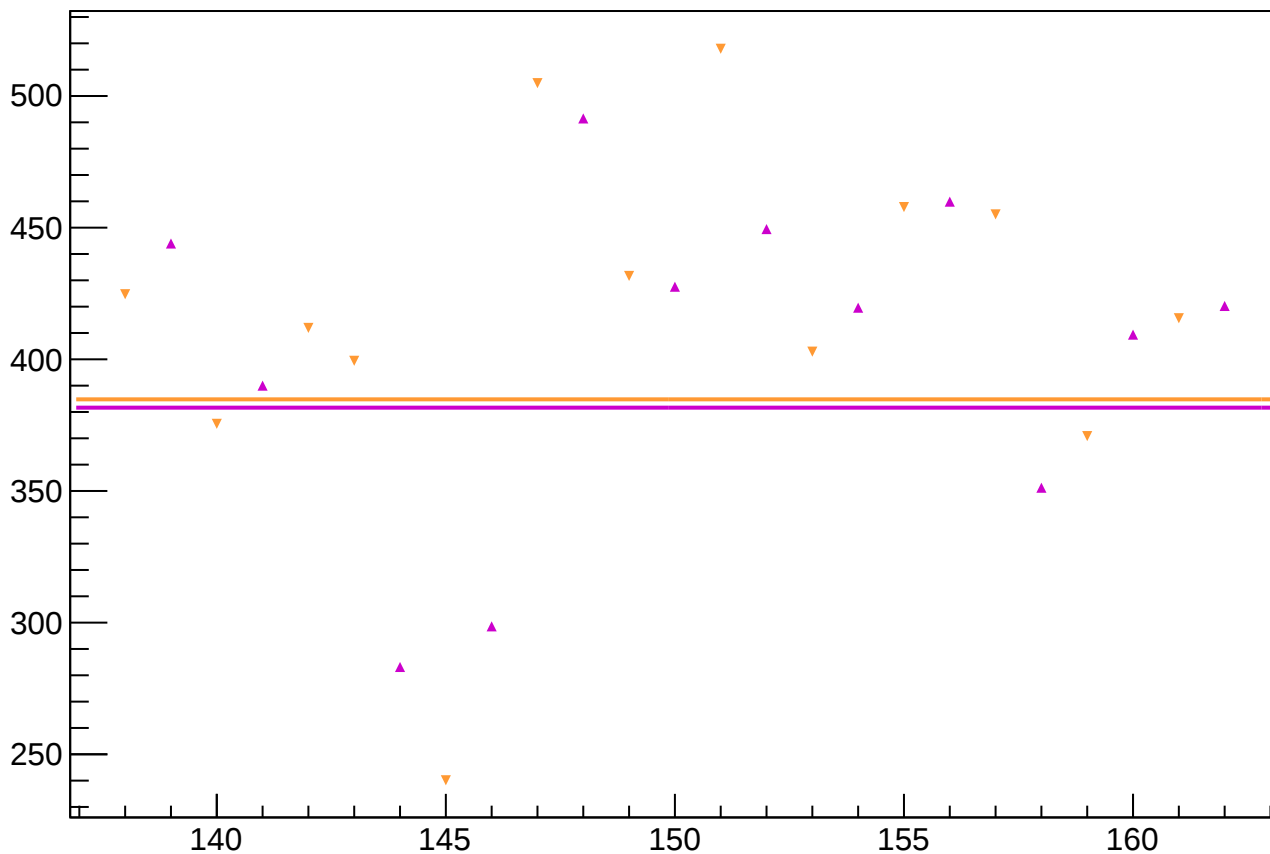
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -177.123+/-124.275  $\chi^2/\text{NDF}$ : 17.4/11

Out: -180.688+/-126.382  $\chi^2/\text{NDF}$ : 19.3/12

All: -178.876+/-88.611  $\chi^2/\text{NDF}$ : 36.8/24

asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 384.800+/-0.089  $\chi^2/\text{NDF}$ :867595.4/12

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

Left In: 381.641+/-0.088  $\chi^2/\text{NDF}$ :577974.8/11

Left: 383.194+/-0.063  $\chi^2/\text{NDF}$ : 1446205.3/24

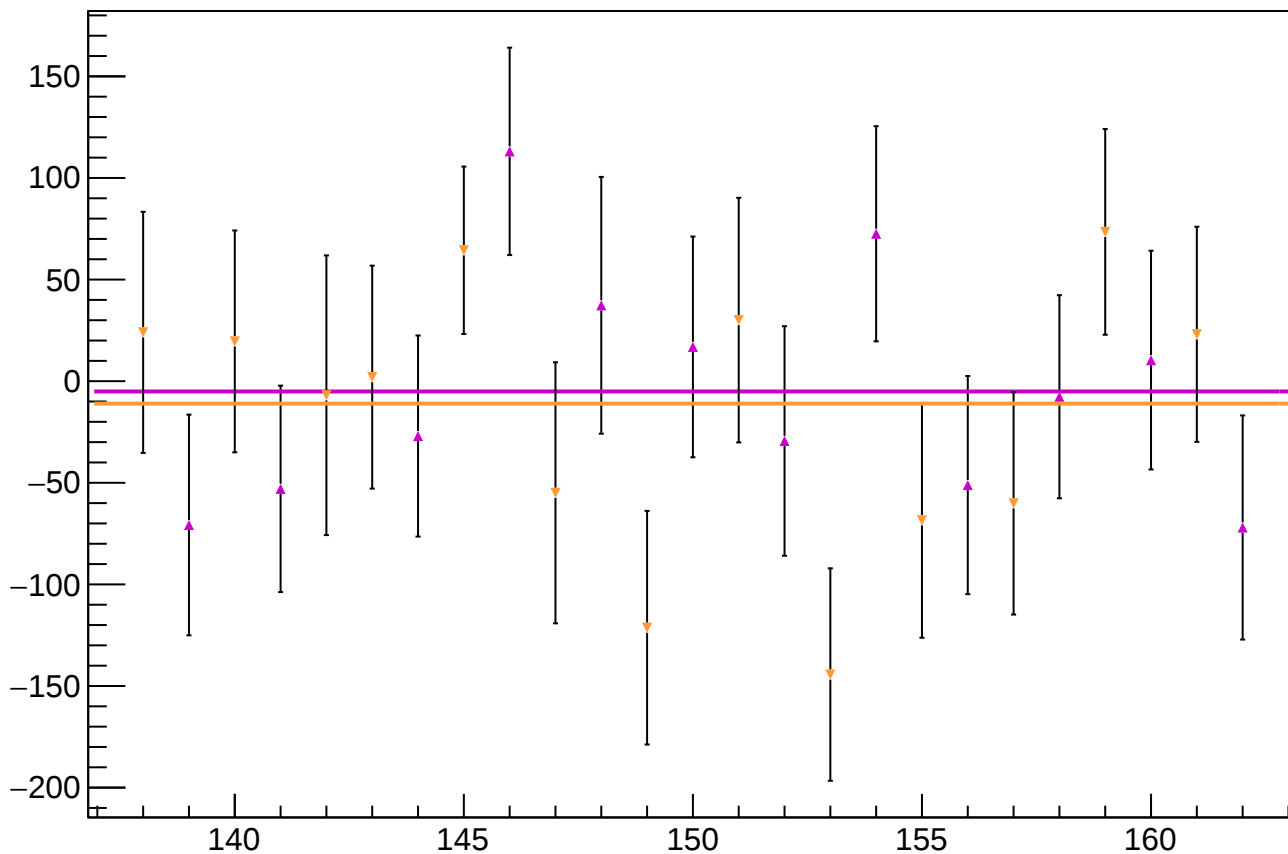
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 381.641+/-0.088  $\chi^2/\text{NDF}$ :577974.8/11

Out: 384.800+/-0.089  $\chi^2/\text{NDF}$ :867595.4/12

All: 383.194+/-0.063  $\chi^2/\text{NDF}$ : 1446205.3/24

dit\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -11.027 $\pm$ 15.214  $\chi^2$ /NDF:20.2/12

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

Left In: -5.064 $\pm$ 15.429  $\chi^2$ /NDF:13.2/11

Left: -8.088 $\pm$ 10.833  $\chi^2$ /NDF: 33.4/24

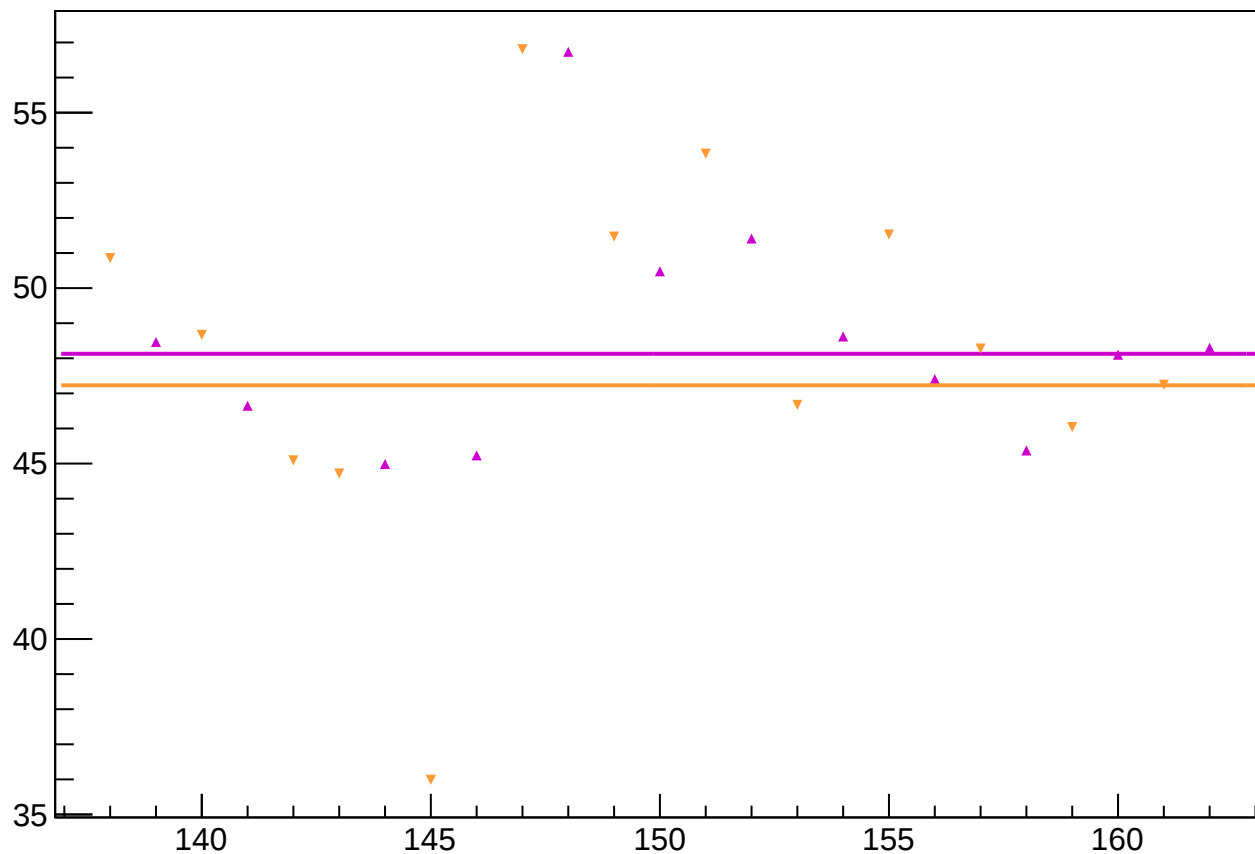
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -5.064 $\pm$ 15.429  $\chi^2$ /NDF:13.2/11

Out: -11.027 $\pm$ 15.214  $\chi^2$ /NDF:20.2/12

All: -8.088 $\pm$ 10.833  $\chi^2$ /NDF: 33.4/24

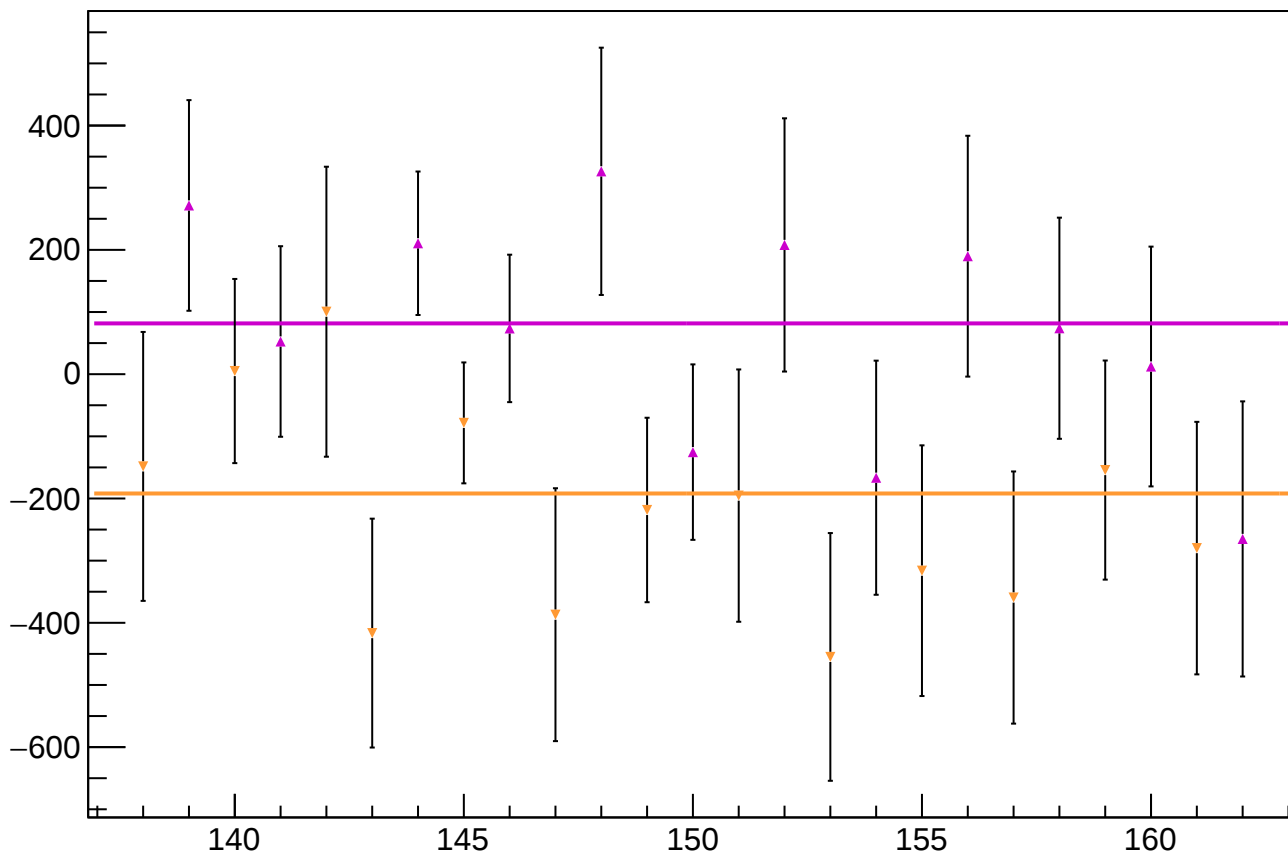
dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 47.230+/-0.011  $\chi^2/\text{NDF}$ :256475.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 48.129+/-0.011  $\chi^2/\text{NDF}$ :70539.4/11

Left: 47.673+/-0.008  $\chi^2/\text{NDF}$ : 330451.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 48.129+/-0.011  $\chi^2/\text{NDF}$ :70539.4/11  
 Out: 47.230+/-0.011  $\chi^2/\text{NDF}$ :256475.6/12  
 All: 47.673+/-0.008  $\chi^2/\text{NDF}$ : 330451.5/24

asym\_sam\_37\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -191.946+/-47.412  $\chi^2/\text{NDF}$ :10.2/12

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

Left In: 81.698+/-46.787  $\chi^2/\text{NDF}$ :11.2/11

Left: -53.307+/-33.302  $\chi^2/\text{NDF}$ : 38.3/24

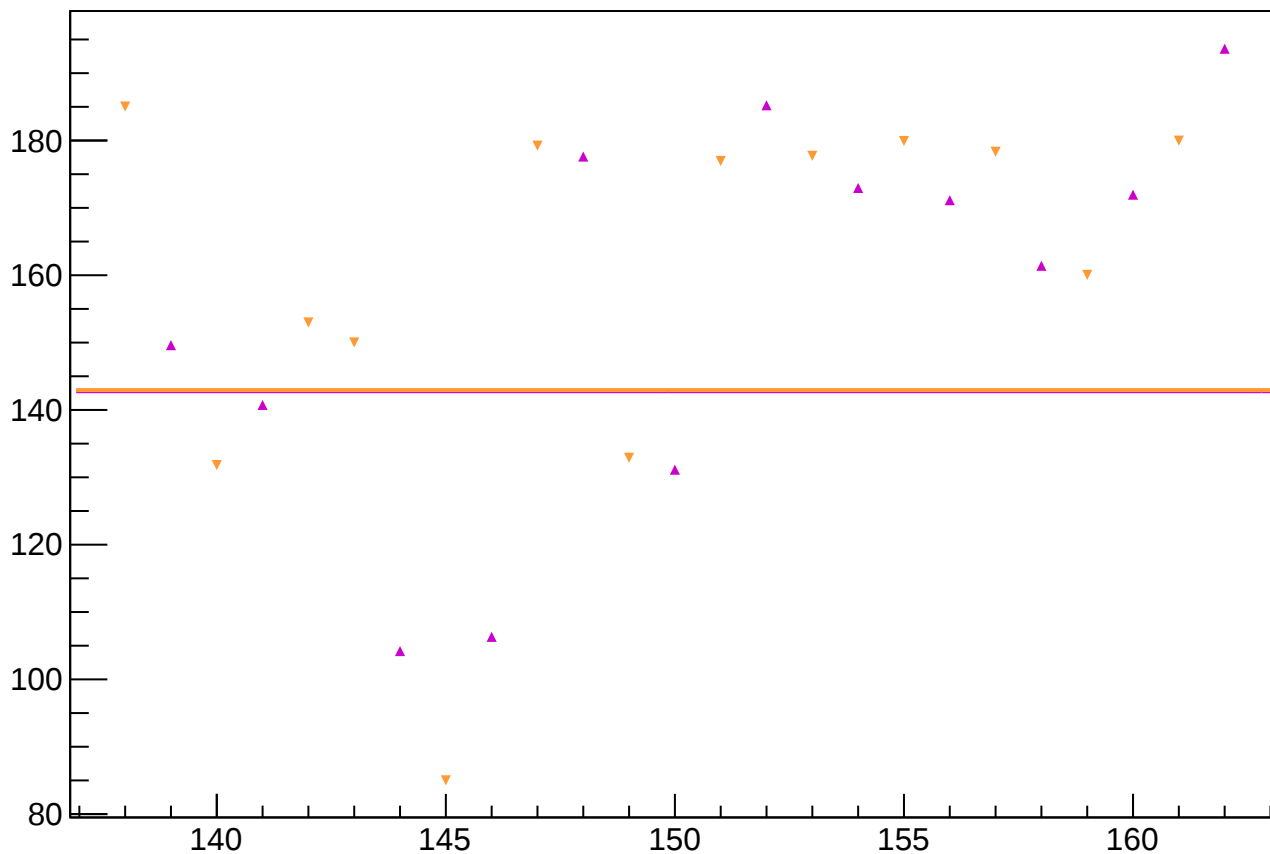
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 81.698+/-46.787  $\chi^2/\text{NDF}$ :11.2/11

Out: -191.946+/-47.412  $\chi^2/\text{NDF}$ :10.2/12

All: -53.307+/-33.302  $\chi^2/\text{NDF}$ : 38.3/24

asym\_sam\_37\_26\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 142.950+/-0.034  $\chi^2/\text{NDF}$ :1206578.6/12

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

Left In: 142.780+/-0.033  $\chi^2/\text{NDF}$ :845375.7/11

Left: 142.864+/-0.024  $\chi^2/\text{NDF}$ : 2051967.4/24

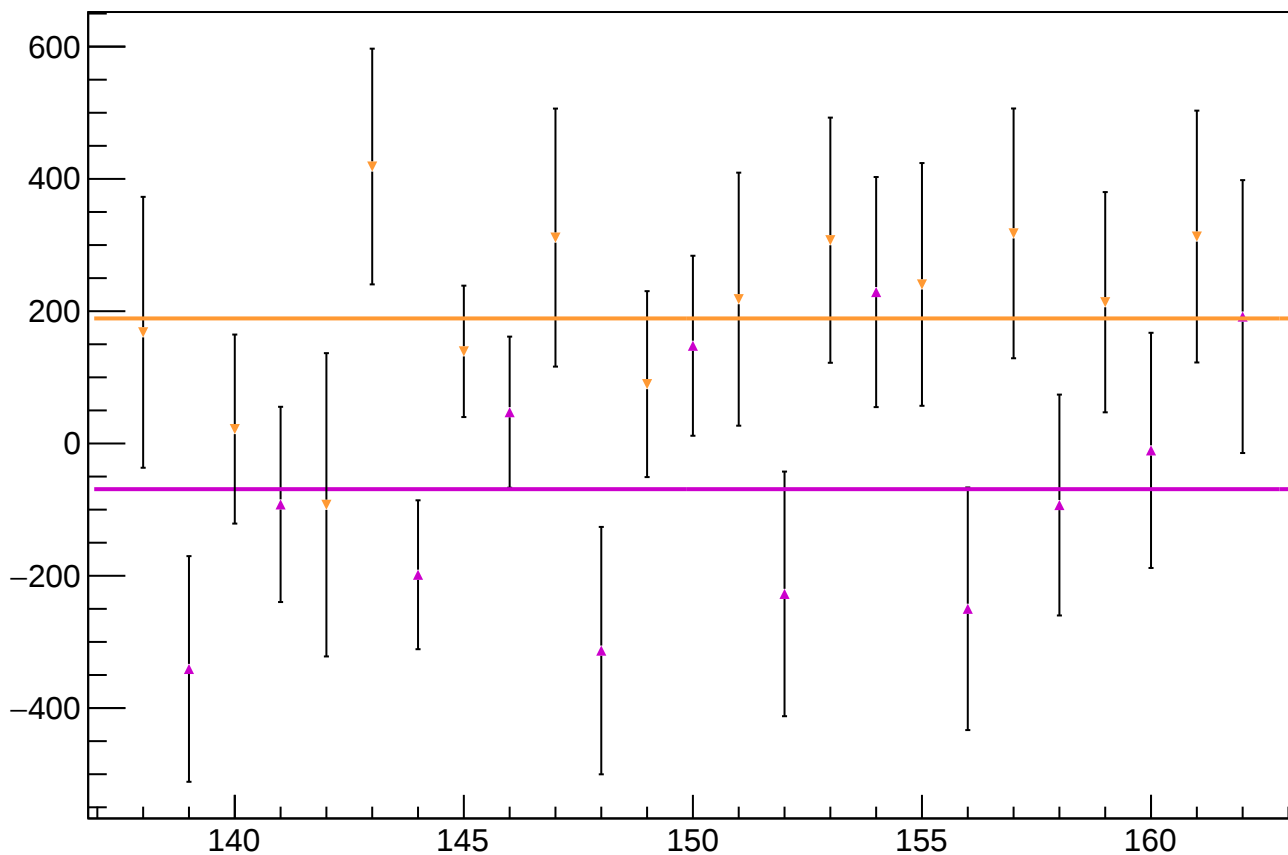
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 142.780+/-0.033  $\chi^2/\text{NDF}$ :845375.7/11

Out: 142.950+/-0.034  $\chi^2/\text{NDF}$ :1206578.6/12

All: 142.864+/-0.024  $\chi^2/\text{NDF}$ : 2051967.4/24

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 189.057 $\pm$ 45.669  $\chi^2$ /NDF:7.1/12

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

Left In: -69.044 $\pm$ 44.656  $\chi^2$ /NDF:15.5/11

Left: 57.111 $\pm$ 31.929  $\chi^2$ /NDF: 39.0/24

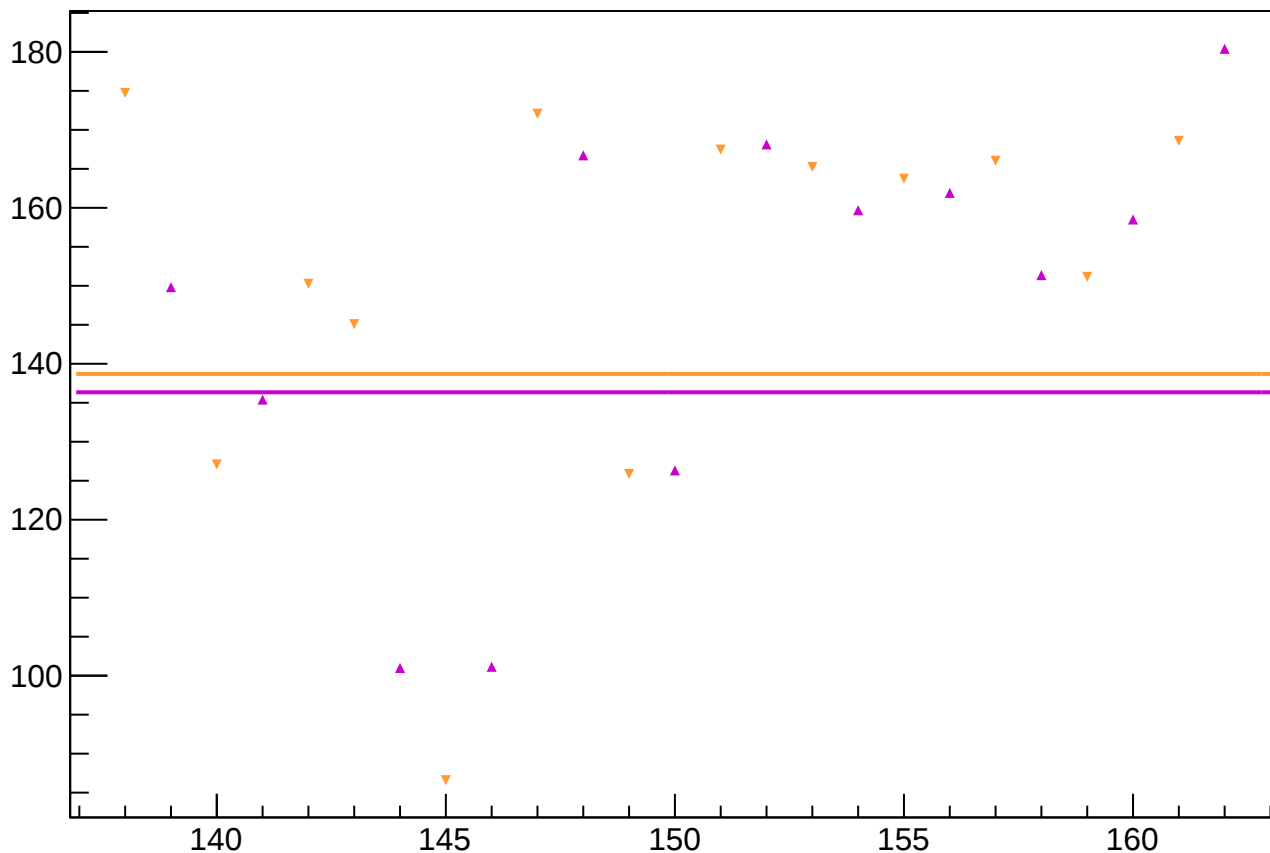
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -69.044 $\pm$ 44.656  $\chi^2$ /NDF:15.5/11

Out: 189.057 $\pm$ 45.669  $\chi^2$ /NDF:7.1/12

All: 57.111 $\pm$ 31.929  $\chi^2$ /NDF: 39.0/24

asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 138.699+/-0.032  $\chi^2/\text{NDF}$ :934388.3/12

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

Left In: 136.343+/-0.032  $\chi^2/\text{NDF}$ :735989.6/11

Left: 137.495+/-0.023  $\chi^2/\text{NDF}$ : 1673099.3/24

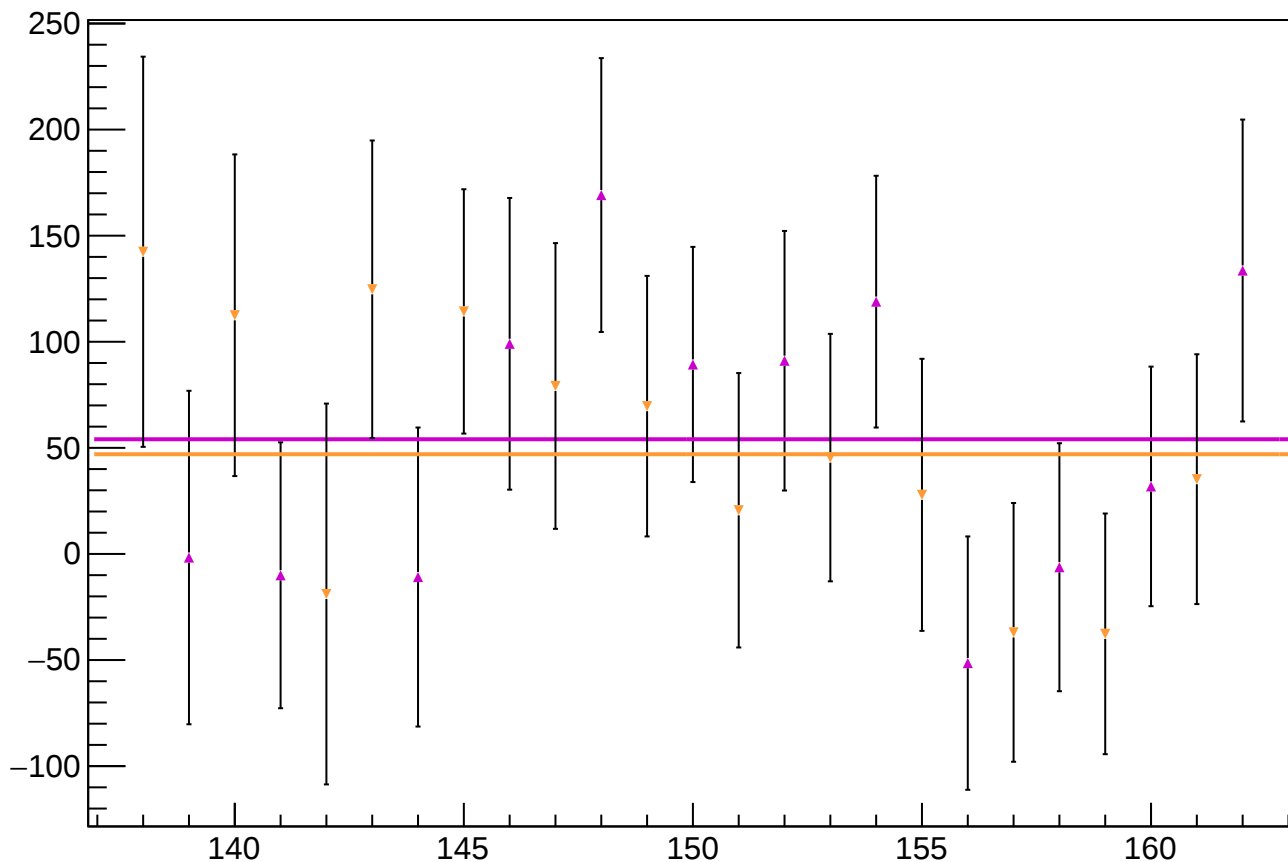
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 136.343+/-0.032  $\chi^2/\text{NDF}$ :735989.6/11

Out: 138.699+/-0.032  $\chi^2/\text{NDF}$ :934388.3/12

All: 137.495+/-0.023  $\chi^2/\text{NDF}$ : 1673099.3/24

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 46.995 $\pm$ 18.101  $\chi^2$ /NDF:9.7/12

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

Left In: 54.051 $\pm$ 18.163  $\chi^2$ /NDF:13.6/11

Left: 50.511 $\pm$ 12.821  $\chi^2$ /NDF: 23.4/24

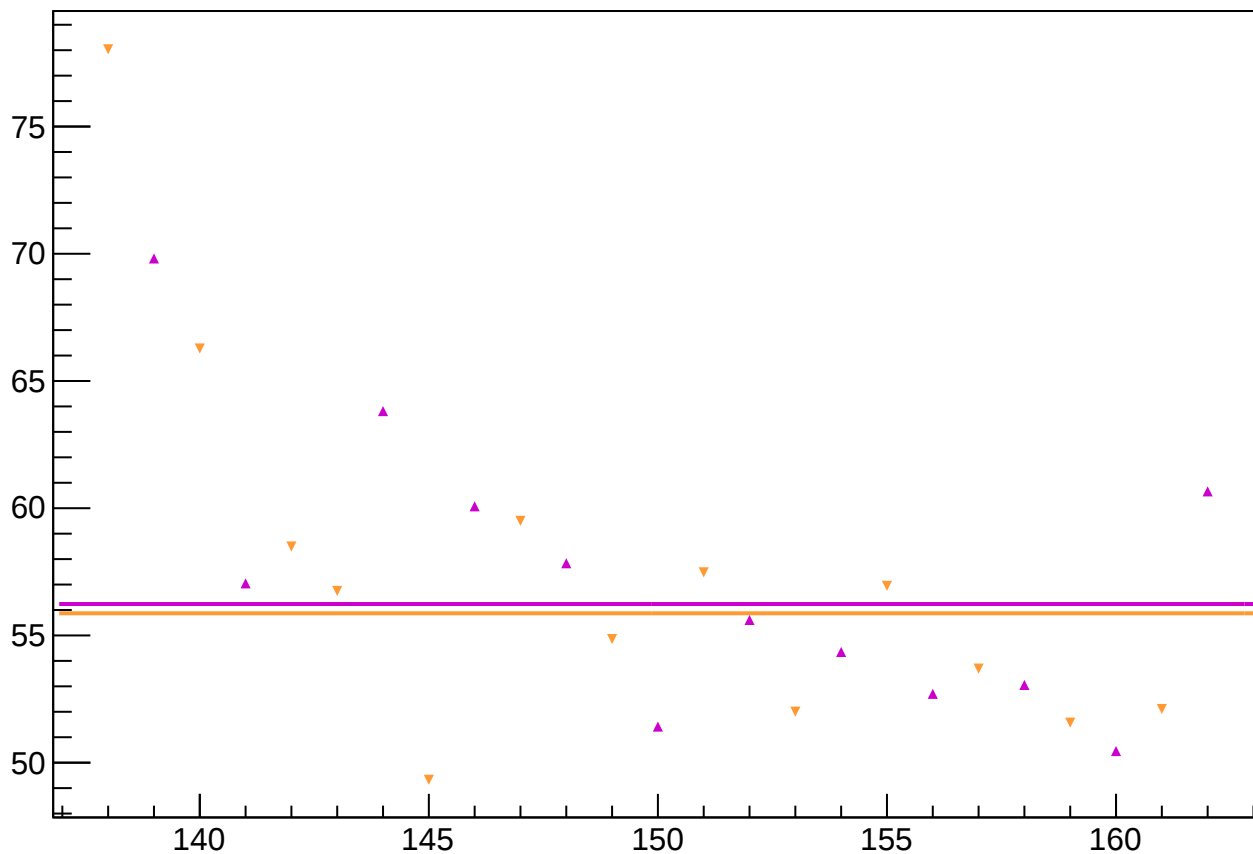
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 54.051 $\pm$ 18.163  $\chi^2$ /NDF:13.6/11

Out: 46.995 $\pm$ 18.101  $\chi^2$ /NDF:9.7/12

All: 50.511 $\pm$ 12.821  $\chi^2$ /NDF: 23.4/24

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 55.871+/-0.013  $\chi^2/\text{NDF}$ :220903.4/12

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

Left In: 56.235+/-0.013  $\chi^2/\text{NDF}$ :149635.9/11

Left: 56.052+/-0.009  $\chi^2/\text{NDF}$ : 370942.9/24

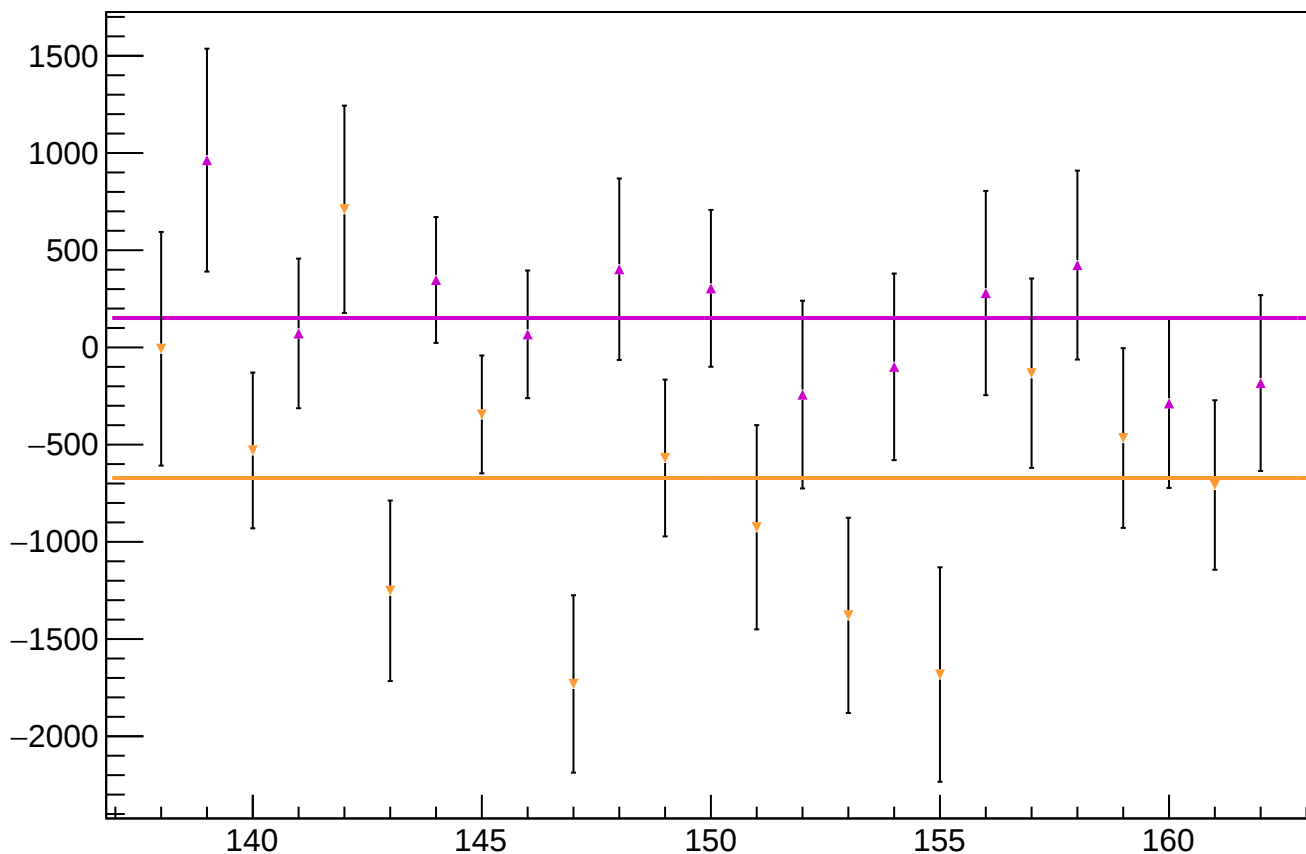
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 56.235+/-0.013  $\chi^2/\text{NDF}$ :149635.9/11

Out: 55.871+/-0.013  $\chi^2/\text{NDF}$ :220903.4/12

All: 56.052+/-0.009  $\chi^2/\text{NDF}$ : 370942.9/24

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -671.599+/-124.973  $\chi^2/\text{NDF}$ :23.3/12

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

Left In: 151.248+/-123.064  $\chi^2/\text{NDF}$ :5.8/11

Left: -253.843+/-87.687  $\chi^2/\text{NDF}$ : 51.1/24

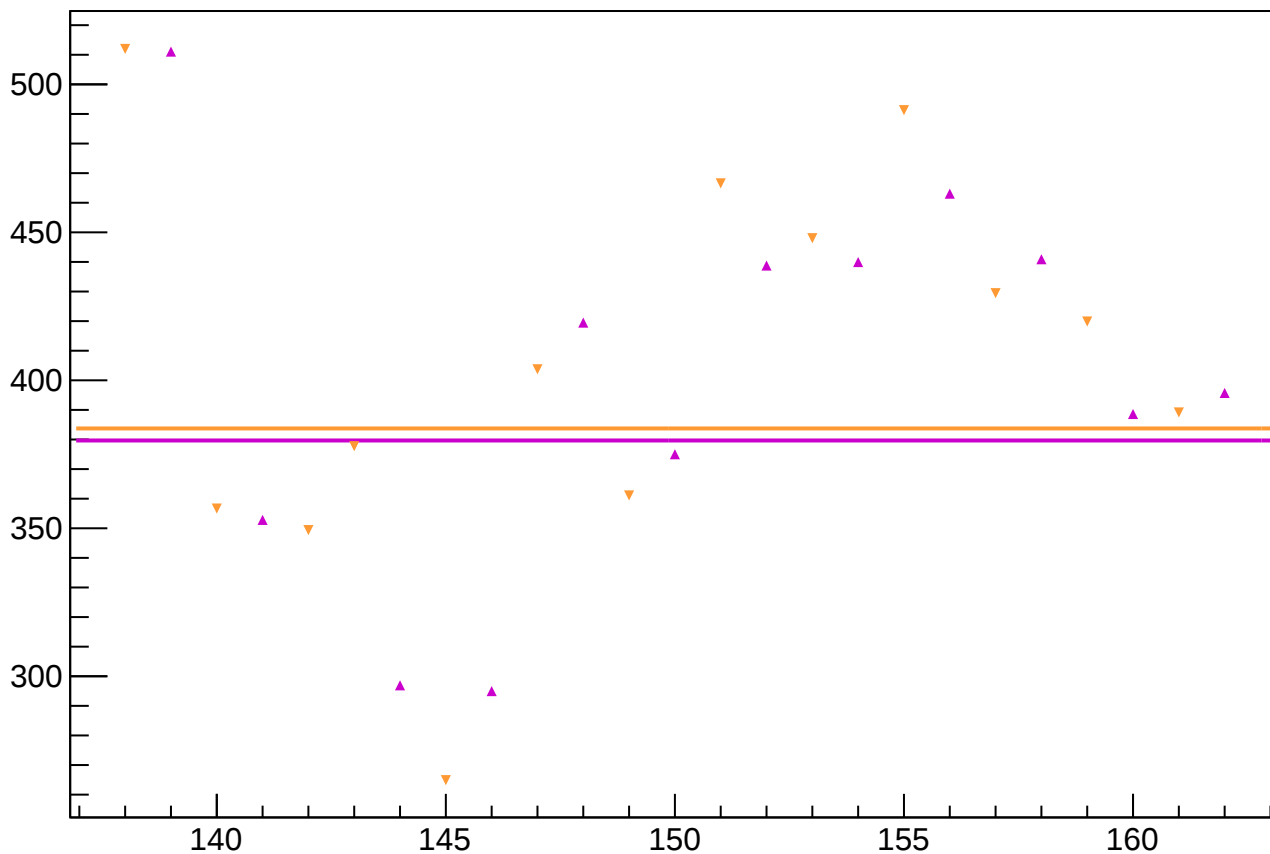
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 151.248+/-123.064  $\chi^2/\text{NDF}$ :5.8/11

Out: -671.599+/-124.973  $\chi^2/\text{NDF}$ :23.3/12

All: -253.843+/-87.687  $\chi^2/\text{NDF}$ : 51.1/24

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 383.735+/-0.088  $\chi^2/\text{NDF}$ :615052.2/12

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

Left In: 379.668+/-0.087  $\chi^2/\text{NDF}$ :540577.0/11

Left: 381.670+/-0.062  $\chi^2/\text{NDF}$ : 1156704.1/24

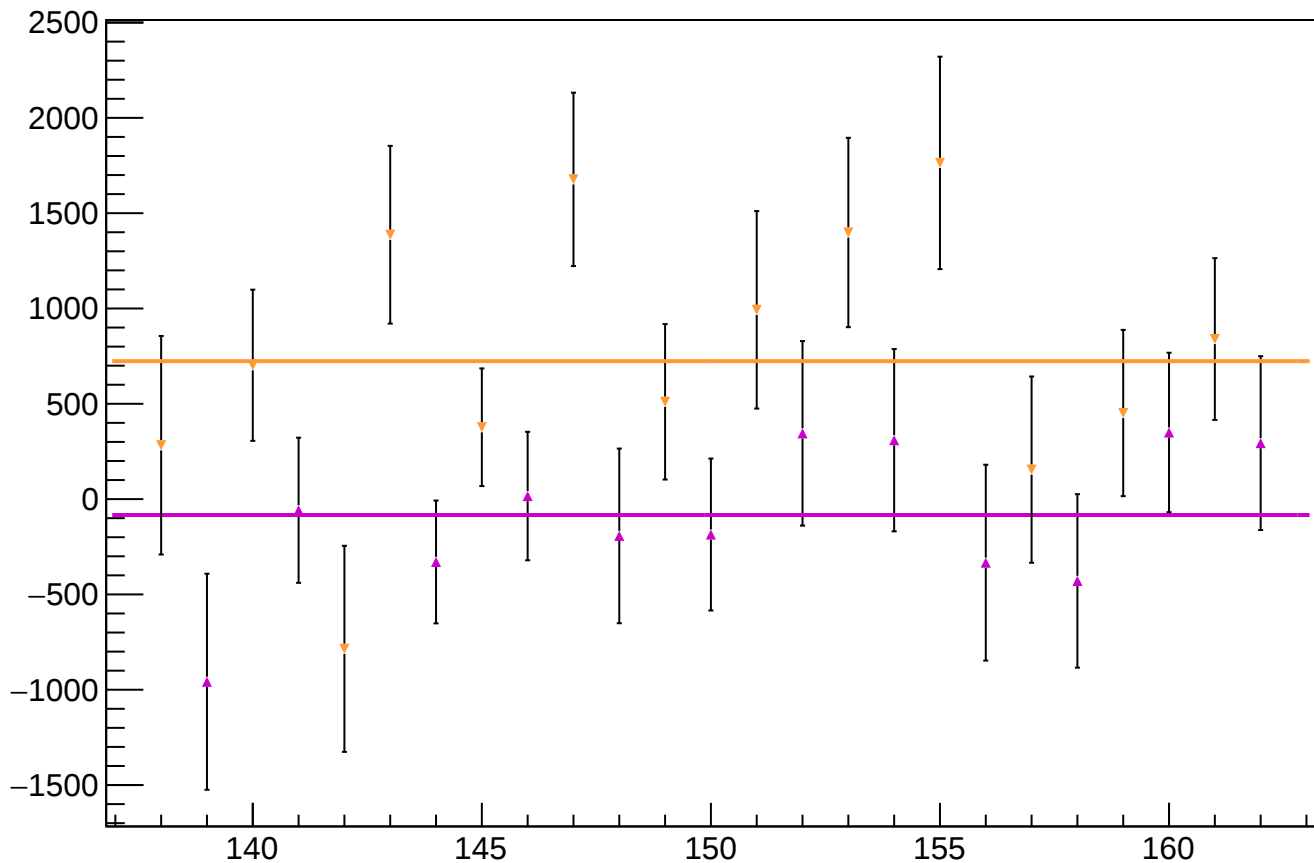
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 379.668+/-0.087  $\chi^2/\text{NDF}$ :540577.0/11

Out: 383.735+/-0.088  $\chi^2/\text{NDF}$ :615052.2/12

All: 381.670+/-0.062  $\chi^2/\text{NDF}$ : 1156704.1/24

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 723.869 $\pm$ 124.255  $\chi^2$ /NDF:23.8/12

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

Left In: -83.358 $\pm$ 121.897  $\chi^2$ /NDF:7.2/11

Left: 312.524 $\pm$ 87.016  $\chi^2$ /NDF: 52.5/24

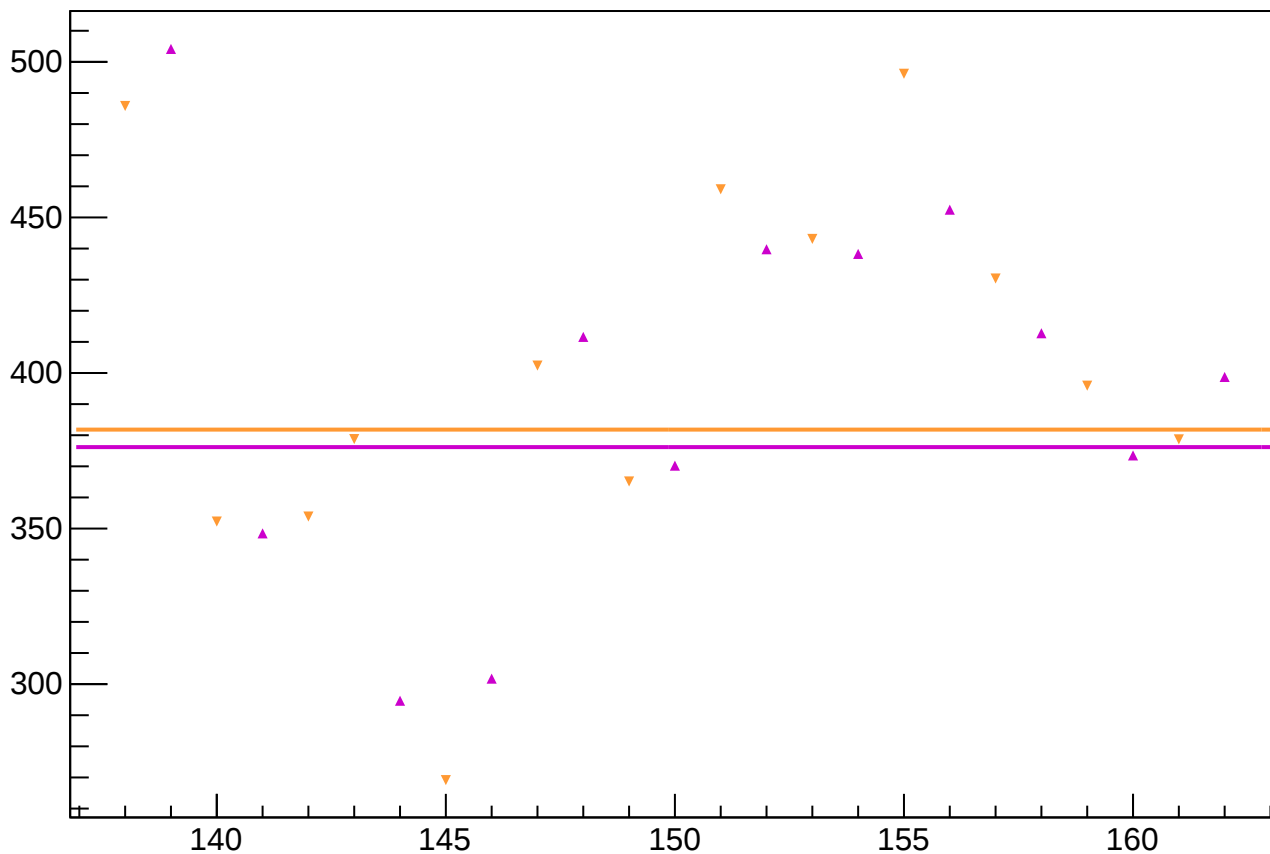
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -83.358 $\pm$ 121.897  $\chi^2$ /NDF:7.2/11

Out: 723.869 $\pm$ 124.255  $\chi^2$ /NDF:23.8/12

All: 312.524 $\pm$ 87.016  $\chi^2$ /NDF: 52.5/24

asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 381.807+/-0.088  $\chi^2/\text{NDF}$ :537584.9/12

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

Left In: 376.182+/-0.086  $\chi^2/\text{NDF}$ :480863.4/11

Left: 378.940+/-0.062  $\chi^2/\text{NDF}$ : 1020537.0/24

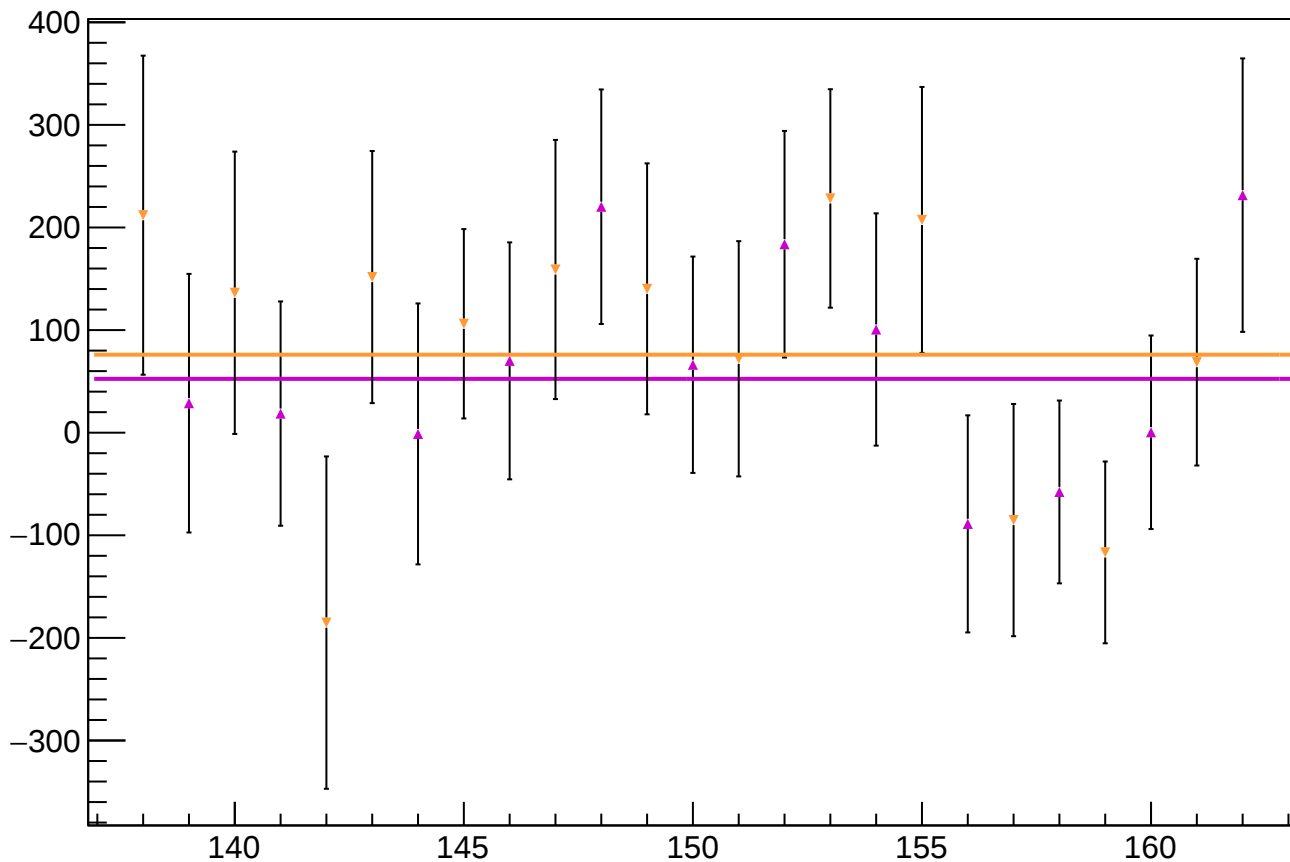
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 376.182+/-0.086  $\chi^2/\text{NDF}$ :480863.4/11

Out: 381.807+/-0.088  $\chi^2/\text{NDF}$ :537584.9/12

All: 378.940+/-0.062  $\chi^2/\text{NDF}$ : 1020537.0/24

dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 76.032 $\pm$ 32.052  $\chi^2$ /NDF:14.6/12

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

Left In: 52.450 $\pm$ 31.716  $\chi^2$ /NDF:9.5/11

Left: 64.117 $\pm$ 22.544  $\chi^2$ /NDF: 24.4/24

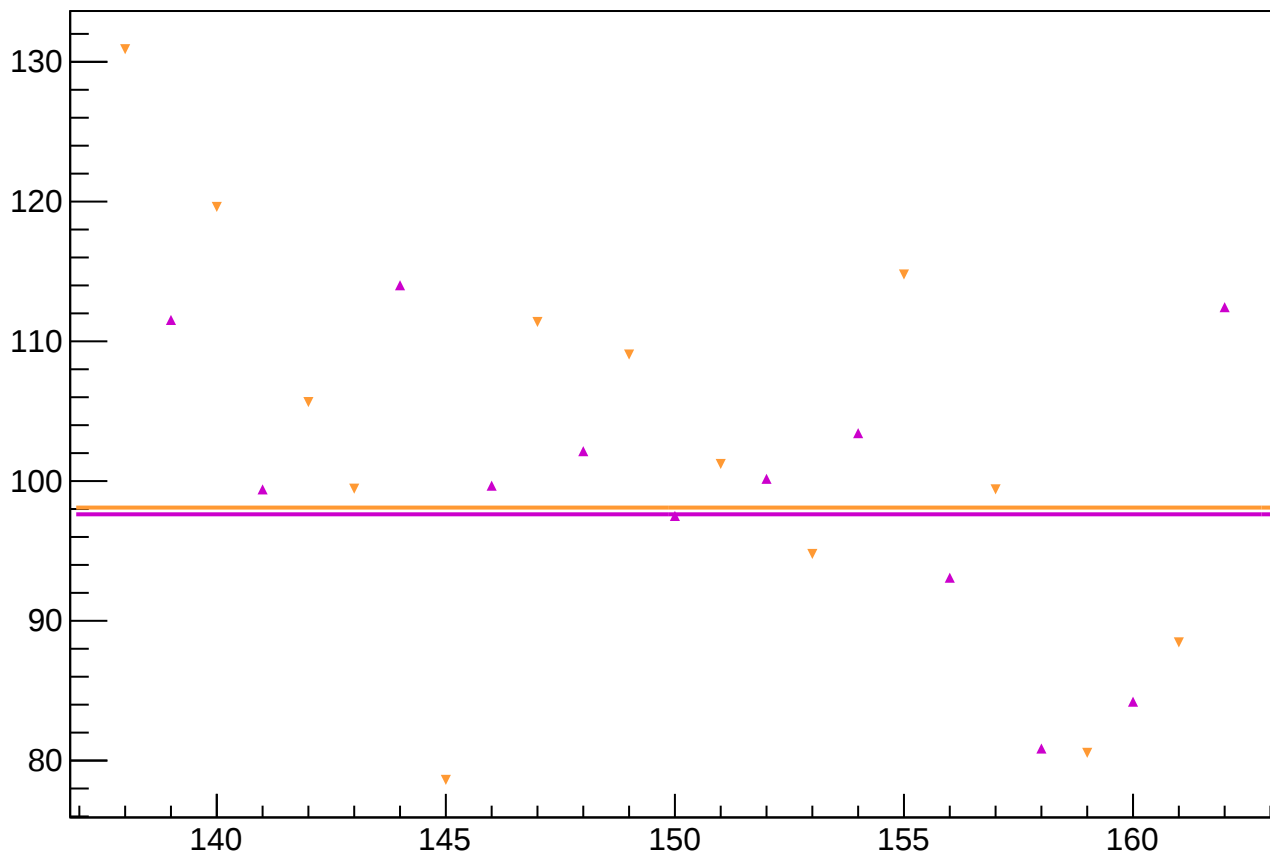
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 52.450 $\pm$ 31.716  $\chi^2$ /NDF:9.5/11

Out: 76.032 $\pm$ 32.052  $\chi^2$ /NDF:14.6/12

All: 64.117 $\pm$ 22.544  $\chi^2$ /NDF: 24.4/24

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 98.103+/-0.023  $\chi^2/\text{NDF}$ :403489.0/12

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

Left In: 97.621+/-0.022  $\chi^2/\text{NDF}$ :207823.1/11

Left: 97.860+/-0.016  $\chi^2/\text{NDF}$ : 611540.4/24

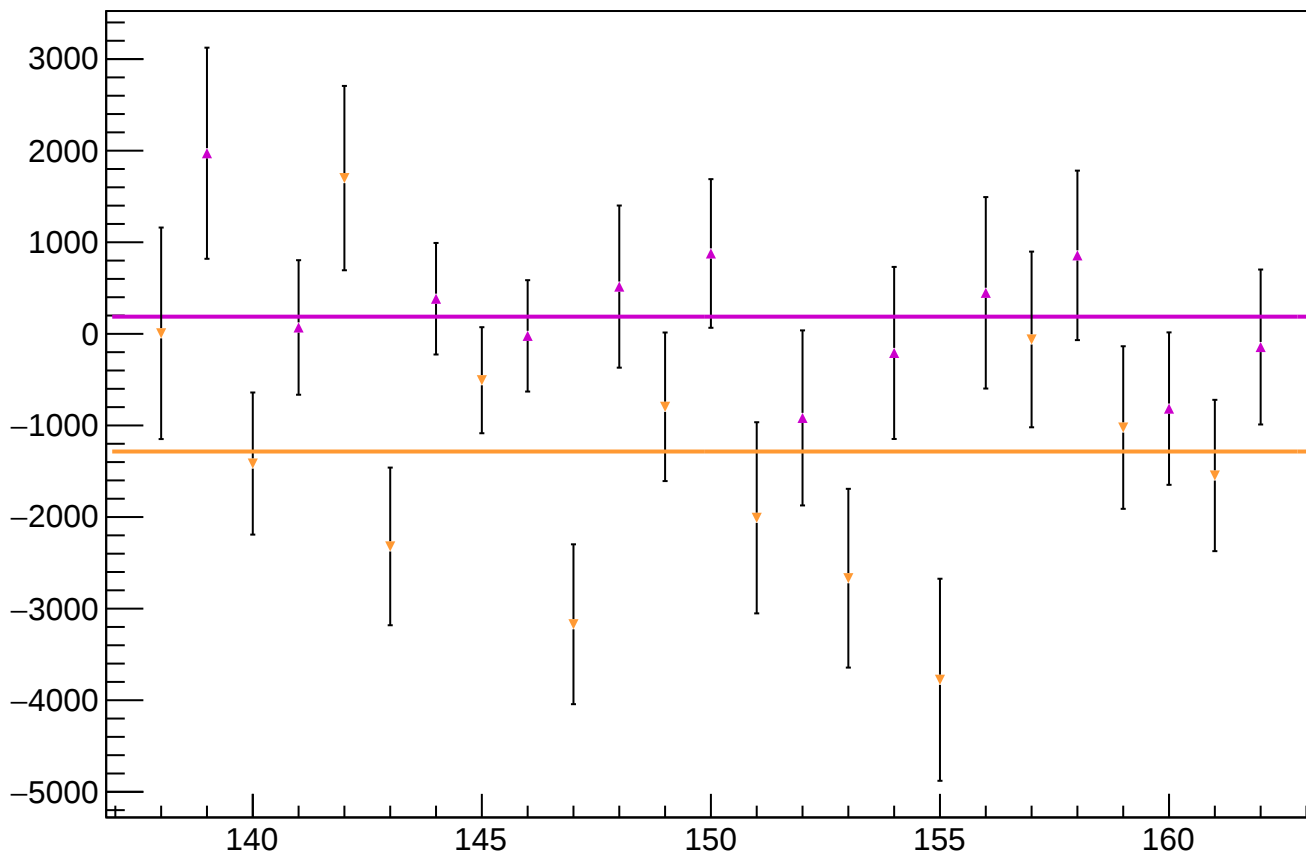
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 97.621+/-0.022  $\chi^2/\text{NDF}$ :207823.1/11

Out: 98.103+/-0.023  $\chi^2/\text{NDF}$ :403489.0/12

All: 97.860+/-0.016  $\chi^2/\text{NDF}$ : 611540.4/24

asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1284.536+/-241.272  $\chi^2/\text{NDF}$ :27.8/12

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

Left In: 187.787+/-235.983  $\chi^2/\text{NDF}$ :7.2/11

Left: -532.058+/-168.704  $\chi^2/\text{NDF}$ : 54.0/24

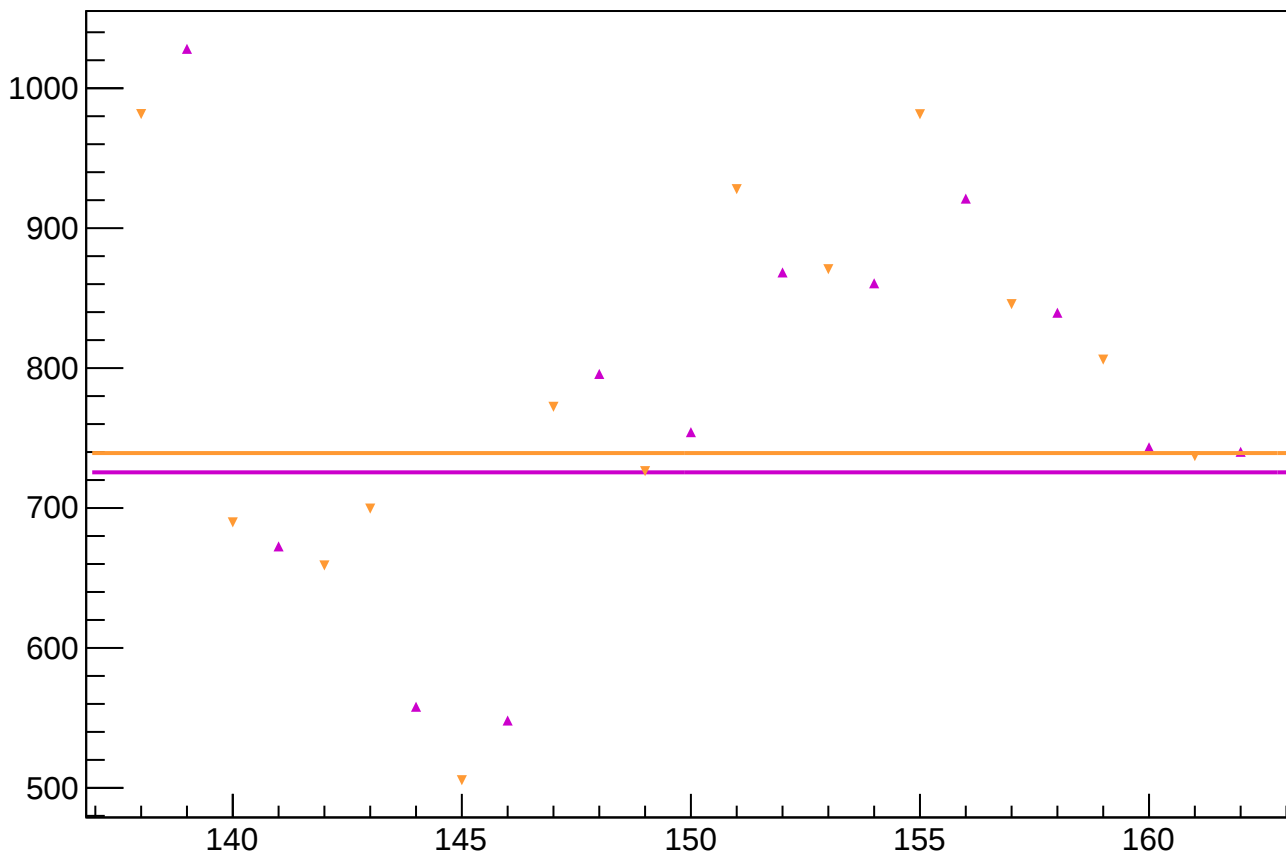
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 187.787+/-235.983  $\chi^2/\text{NDF}$ :7.2/11

Out: -1284.536+/-241.272  $\chi^2/\text{NDF}$ :27.8/12

All: -532.058+/-168.704  $\chi^2/\text{NDF}$ : 54.0/24

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 739.276+/-0.171  $\chi^2/\text{NDF}$ : 676651.7/12

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

Left In: 725.501+/-0.167  $\chi^2/\text{NDF}$ : 673037.0/11

Left: 732.236+/-0.119  $\chi^2/\text{NDF}$ : 1353020.5/24

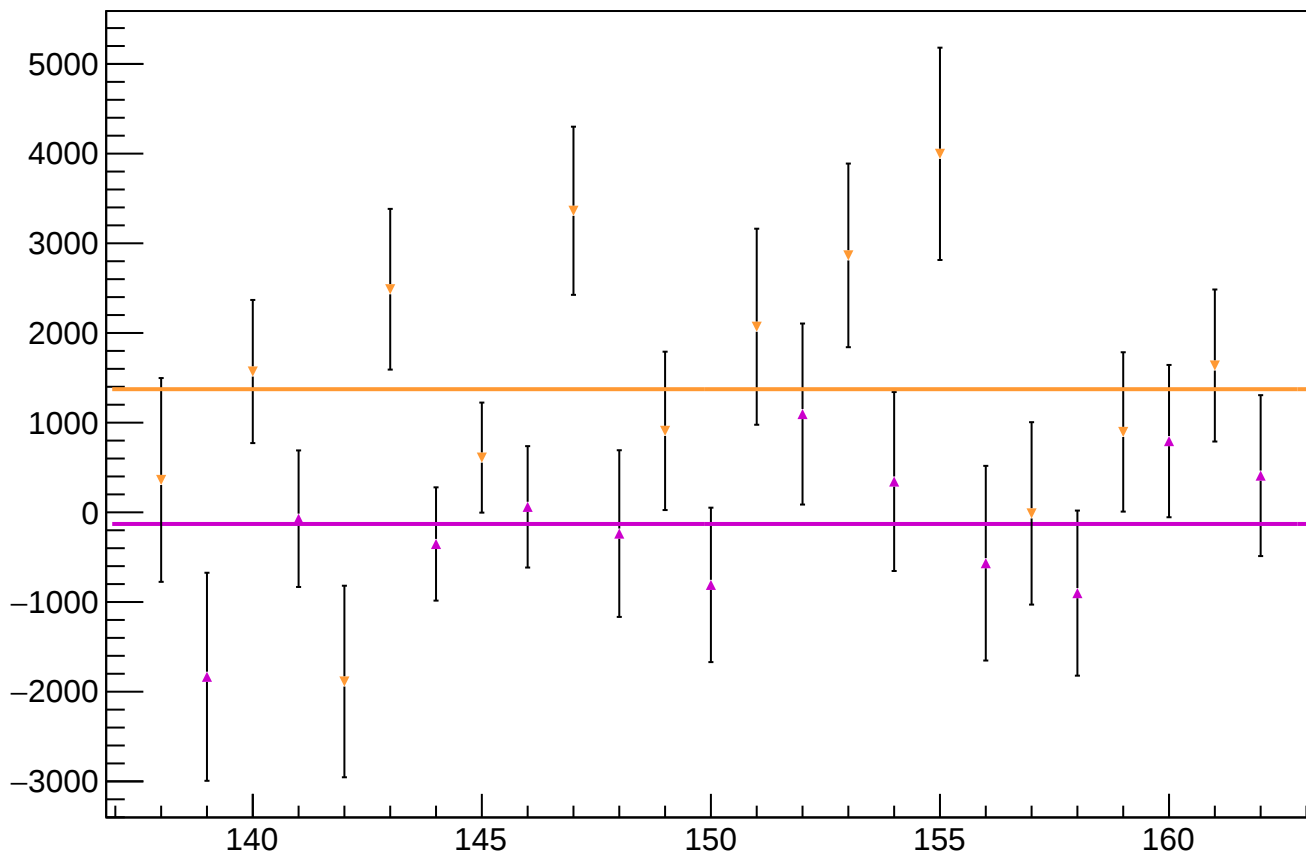
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 725.501+/-0.167  $\chi^2/\text{NDF}$ : 673037.0/11

Out: 739.276+/-0.171  $\chi^2/\text{NDF}$ : 676651.7/12

All: 732.236+/-0.119  $\chi^2/\text{NDF}$ : 1353020.5/24

# asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1373.206+/-252.596  $\chi^2/\text{NDF}$ :27.7/12

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

Left In: -129.664+/-247.619  $\chi^2/\text{NDF}$ :7.1/11

Left: 606.819+/-176.826  $\chi^2/\text{NDF}$ : 52.9/24

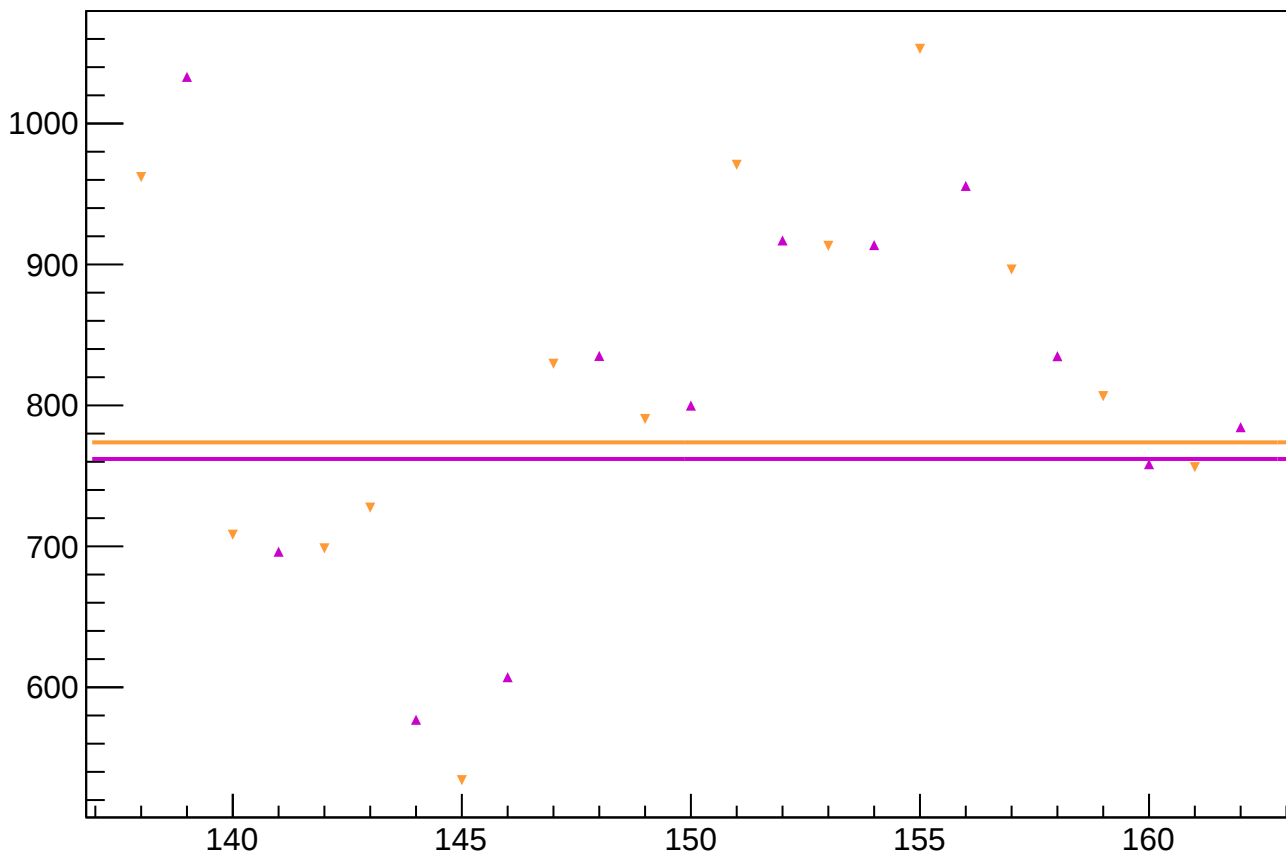
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -129.664+/-247.619  $\chi^2/\text{NDF}$ :7.1/11

Out: 1373.206+/-252.596  $\chi^2/\text{NDF}$ :27.7/12

All: 606.819+/-176.826  $\chi^2/\text{NDF}$ : 52.9/24

# asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 773.782+/-0.179  $\chi^2/\text{NDF}$ : 642501.4/12

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

Left In: 762.004+/-0.175  $\chi^2/\text{NDF}$ : 587794.1/11

Left: 767.776+/-0.125  $\chi^2/\text{NDF}$ : 1232513.0/24

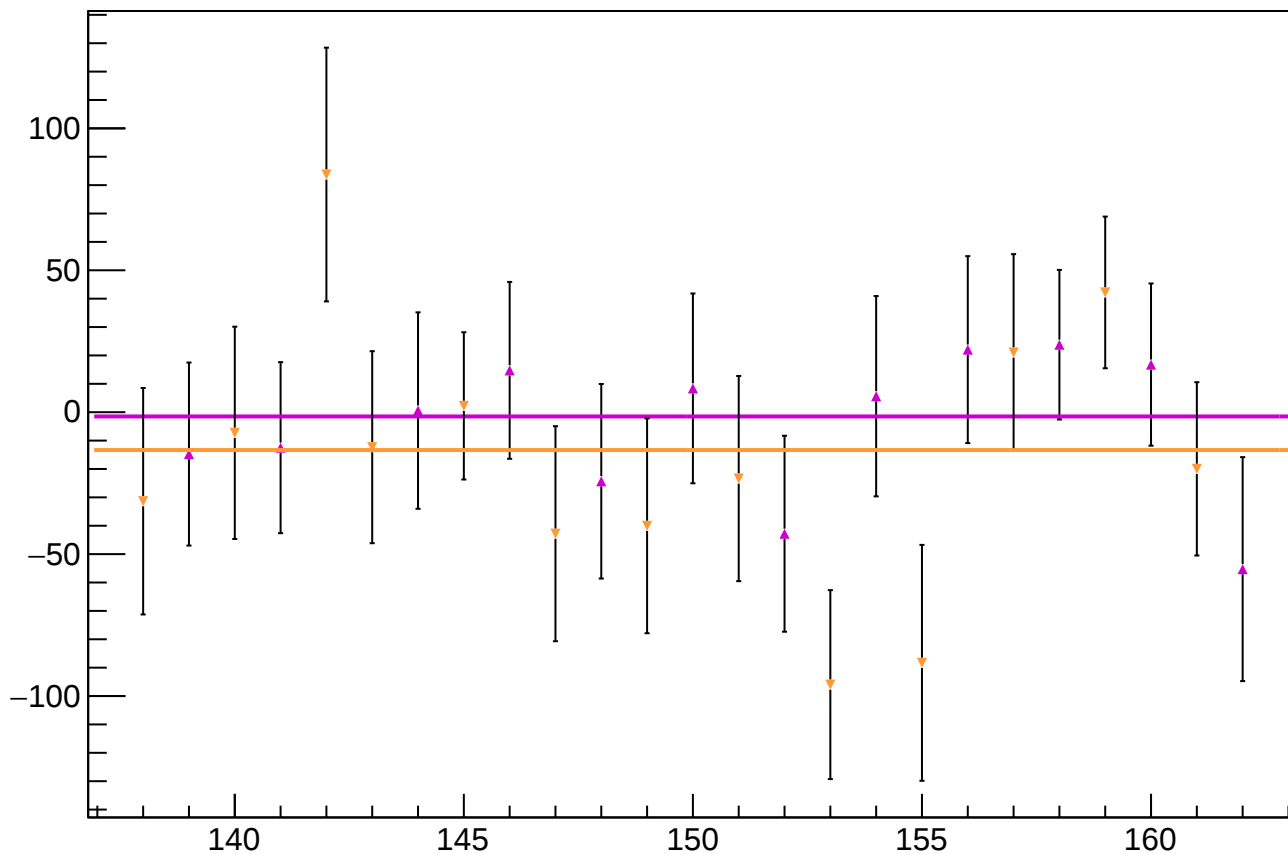
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 762.004+/-0.175  $\chi^2/\text{NDF}$ : 587794.1/11

Out: 773.782+/-0.179  $\chi^2/\text{NDF}$ : 642501.4/12

All: 767.776+/-0.125  $\chi^2/\text{NDF}$ : 1232513.0/24

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -13.336+/-9.469  $\chi^2/\text{NDF}$ :21.3/12

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

Left In: -1.498+/-9.306  $\chi^2/\text{NDF}$ :6.3/11

Left: -7.314+/-6.637  $\chi^2/\text{NDF}$ : 28.3/24

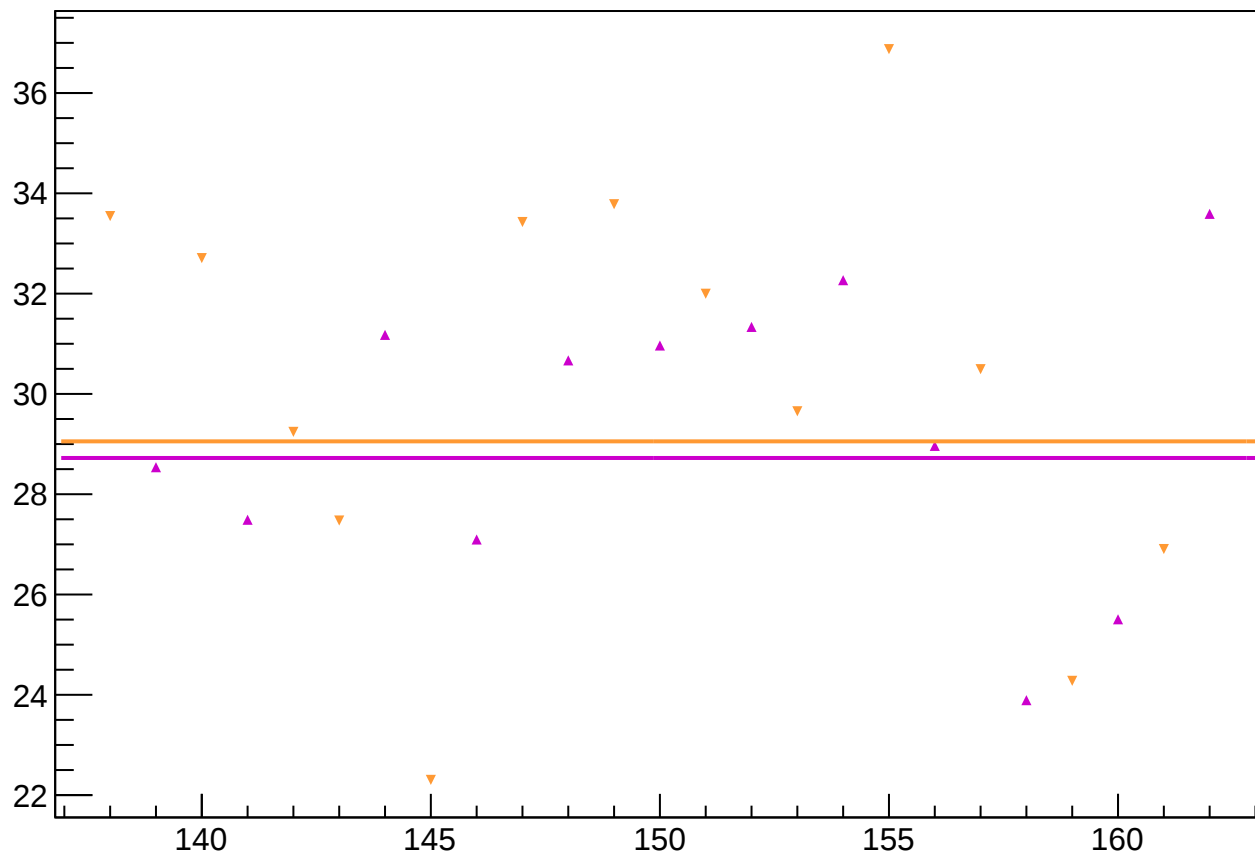
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.498+/-9.306  $\chi^2/\text{NDF}$ :6.3/11

Out: -13.336+/-9.469  $\chi^2/\text{NDF}$ :21.3/12

All: -7.314+/-6.637  $\chi^2/\text{NDF}$ : 28.3/24

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 29.054+/-0.007  $\chi^2/\text{NDF}$ :404139.5/12

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

Left In: 28.723+/-0.007  $\chi^2/\text{NDF}$ :189093.3/11

Left: 28.886+/-0.005  $\chi^2/\text{NDF}$ : 594479.7/24

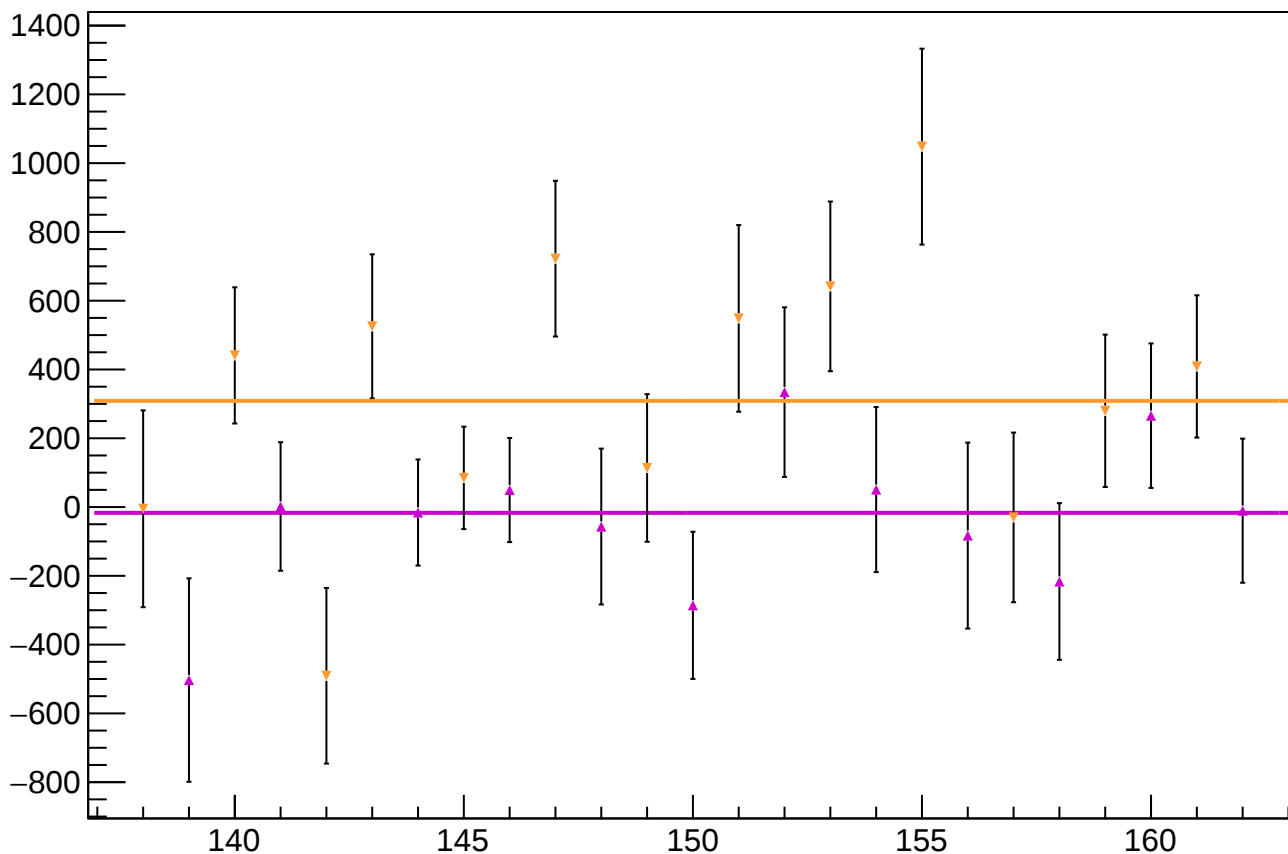
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 28.723+/-0.007  $\chi^2/\text{NDF}$ :189093.3/11

Out: 29.054+/-0.007  $\chi^2/\text{NDF}$ :404139.5/12

All: 28.886+/-0.005  $\chi^2/\text{NDF}$ : 594479.7/24

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 308.699+/-61.471  $\chi^2/\text{NDF}$ :30.4/12

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

Left In: -16.842+/-59.848  $\chi^2/\text{NDF}$ :9.3/11

Left: 141.574+/-42.881  $\chi^2/\text{NDF}$ : 54.1/24

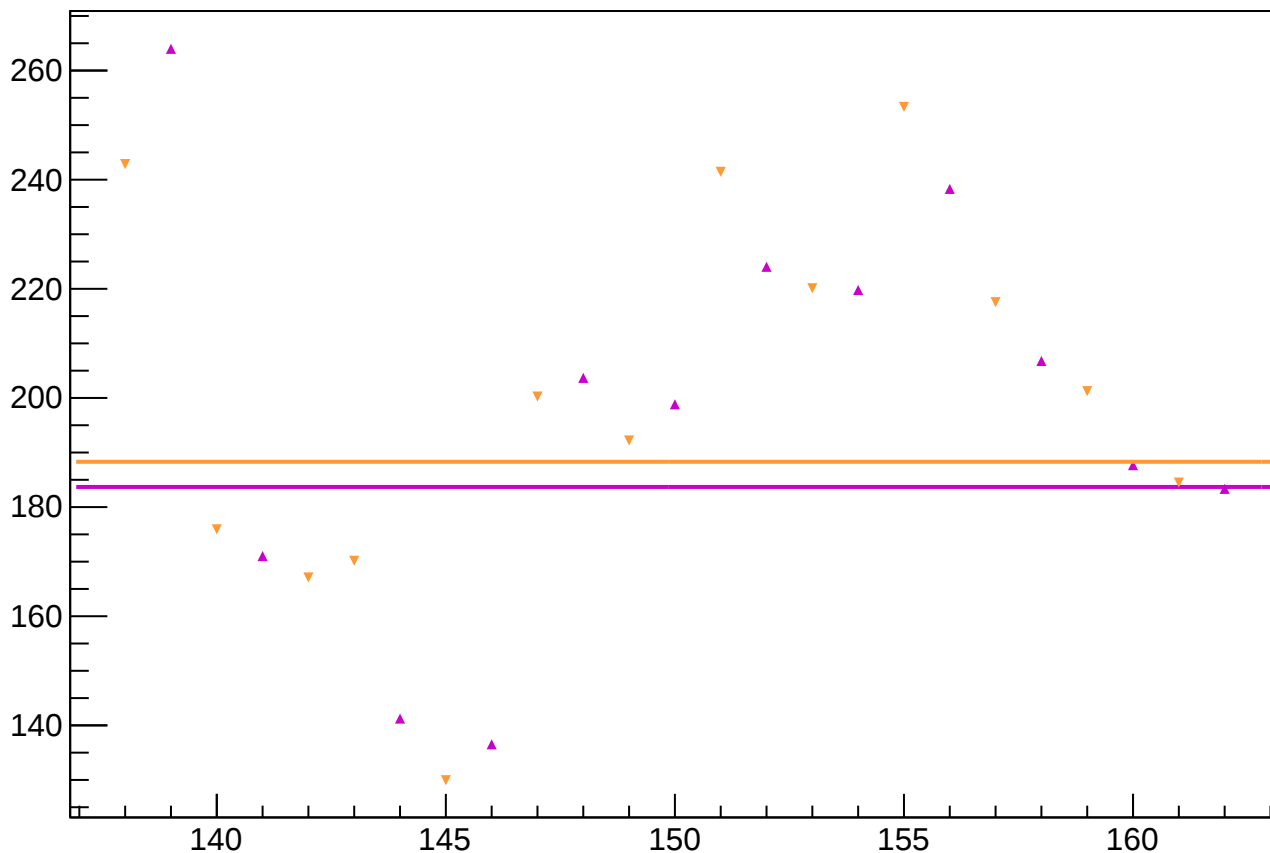
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.842+/-59.848  $\chi^2/\text{NDF}$ :9.3/11

Out: 308.699+/-61.471  $\chi^2/\text{NDF}$ :30.4/12

All: 141.574+/-42.881  $\chi^2/\text{NDF}$ : 54.1/24

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 188.305+/-0.043  $\chi^2/\text{NDF}$ :672233.4/12

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

Left In: 183.693+/-0.042  $\chi^2/\text{NDF}$ :729124.7/11

Left: 185.937+/-0.030  $\chi^2/\text{NDF}$ : 1407138.2/24

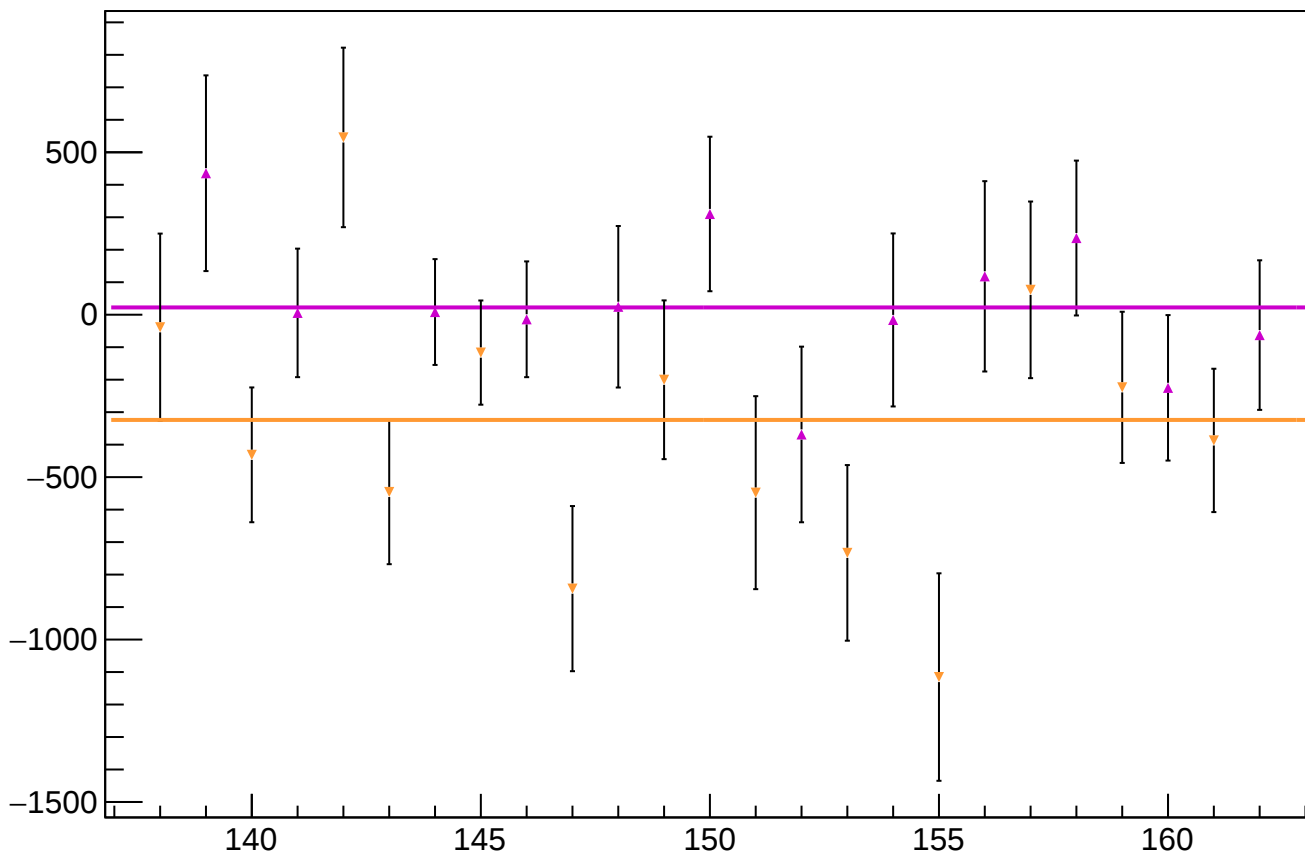
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 183.693+/-0.042  $\chi^2/\text{NDF}$ :729124.7/11

Out: 188.305+/-0.043  $\chi^2/\text{NDF}$ :672233.4/12

All: 185.937+/-0.030  $\chi^2/\text{NDF}$ : 1407138.2/24

asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-323.882 \pm 66.362$   $\chi^2/\text{NDF}: 29.7/12$

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

Left In:  $22.412 \pm 65.167$   $\chi^2/\text{NDF}: 7.8/11$

Left:  $-147.588 \pm 46.497$   $\chi^2/\text{NDF}: 51.3/24$

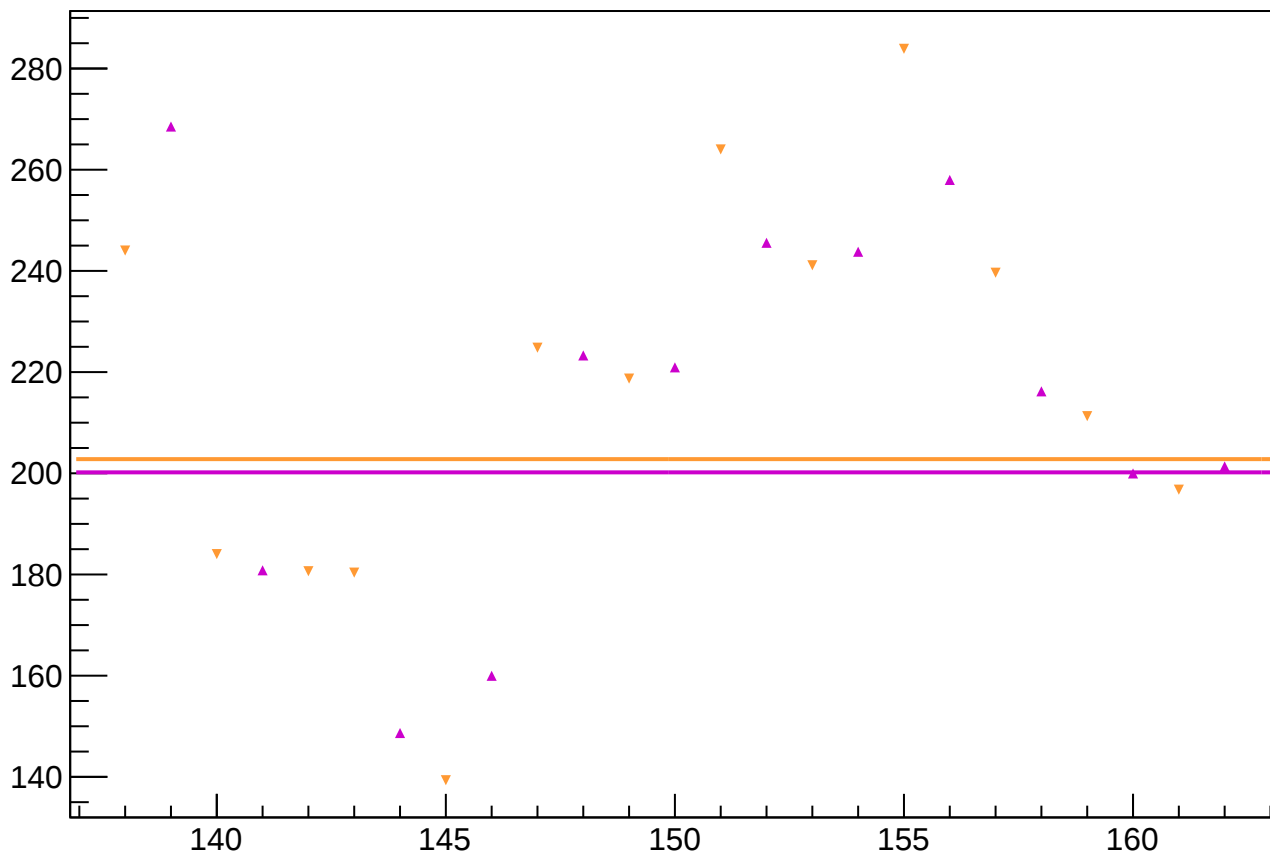
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $22.412 \pm 65.167$   $\chi^2/\text{NDF}: 7.8/11$

Out:  $-323.882 \pm 66.362$   $\chi^2/\text{NDF}: 29.7/12$

All:  $-147.588 \pm 46.497$   $\chi^2/\text{NDF}: 51.3/24$

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 202.798+/-0.047  $\chi^2/\text{NDF}$ : 722135.9/12

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

Left In: 200.184+/-0.046  $\chi^2/\text{NDF}$ : 653452.2/11

Left: 201.468+/-0.033  $\chi^2/\text{NDF}$ : 1377167.5/24

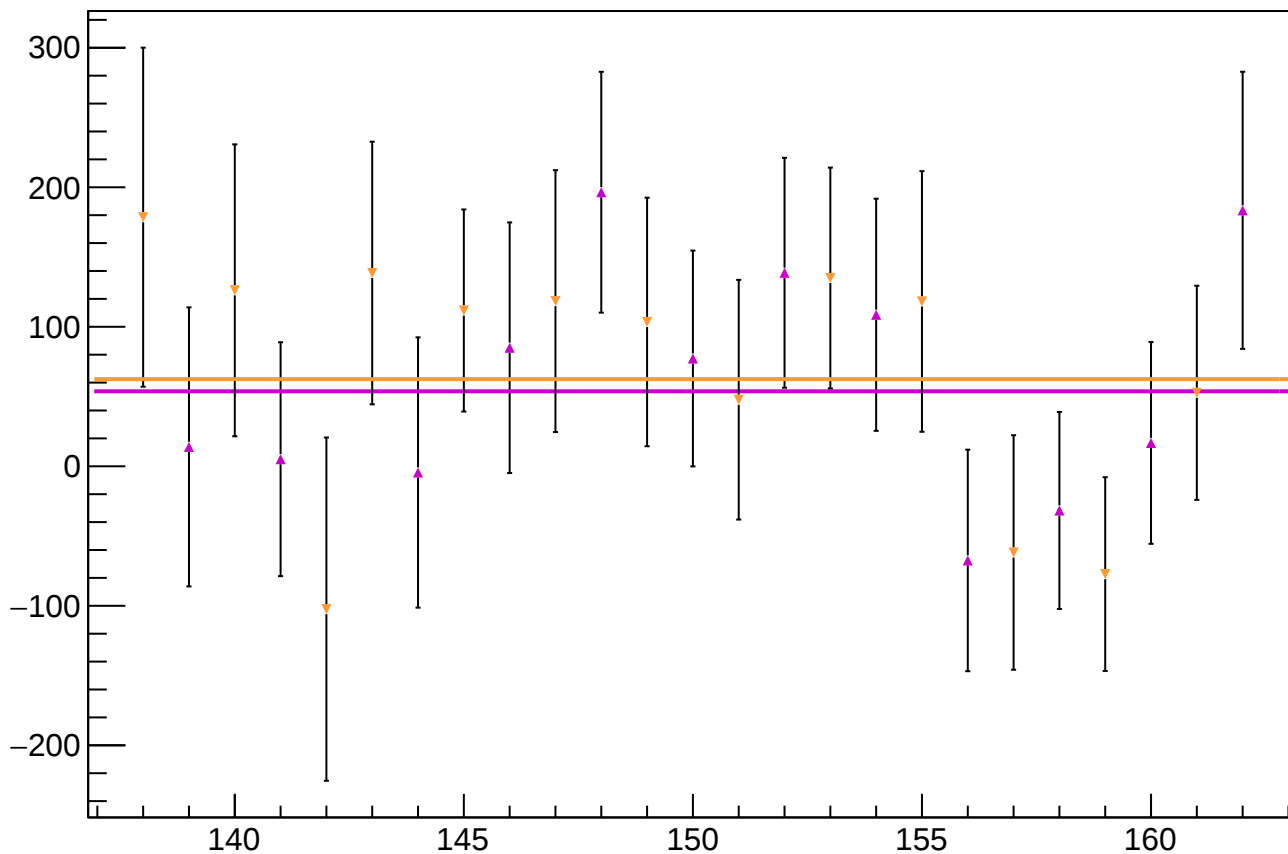
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 200.184+/-0.046  $\chi^2/\text{NDF}$ : 653452.2/11

Out: 202.798+/-0.047  $\chi^2/\text{NDF}$ : 722135.9/12

All: 201.468+/-0.033  $\chi^2/\text{NDF}$ : 1377167.5/24

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 62.463+/-24.278  $\chi^2/\text{NDF}$ :12.2/12

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

Left In: 53.743+/-24.128  $\chi^2/\text{NDF}$ :11.1/11

Left: 58.076+/-17.114  $\chi^2/\text{NDF}$ : 23.4/24

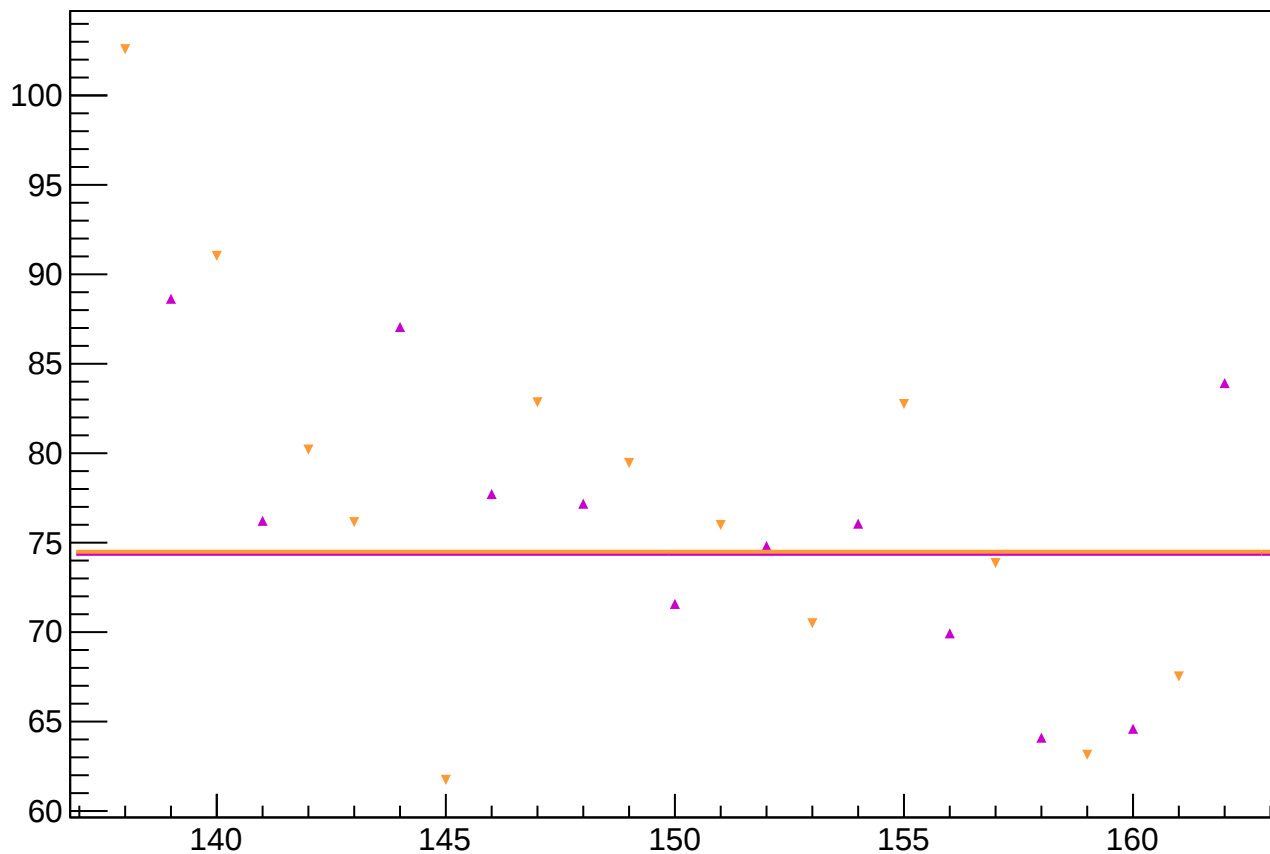
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 53.743+/-24.128  $\chi^2/\text{NDF}$ :11.1/11

Out: 62.463+/-24.278  $\chi^2/\text{NDF}$ :12.2/12

All: 58.076+/-17.114  $\chi^2/\text{NDF}$ : 23.4/24

dit\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 74.495+/-0.017  $\chi^2/\text{NDF}$ :337208.7/12

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

Left In: 74.377+/-0.017  $\chi^2/\text{NDF}$ :187944.4/11

Left: 74.435+/-0.012  $\chi^2/\text{NDF}$ : 525176.7/24

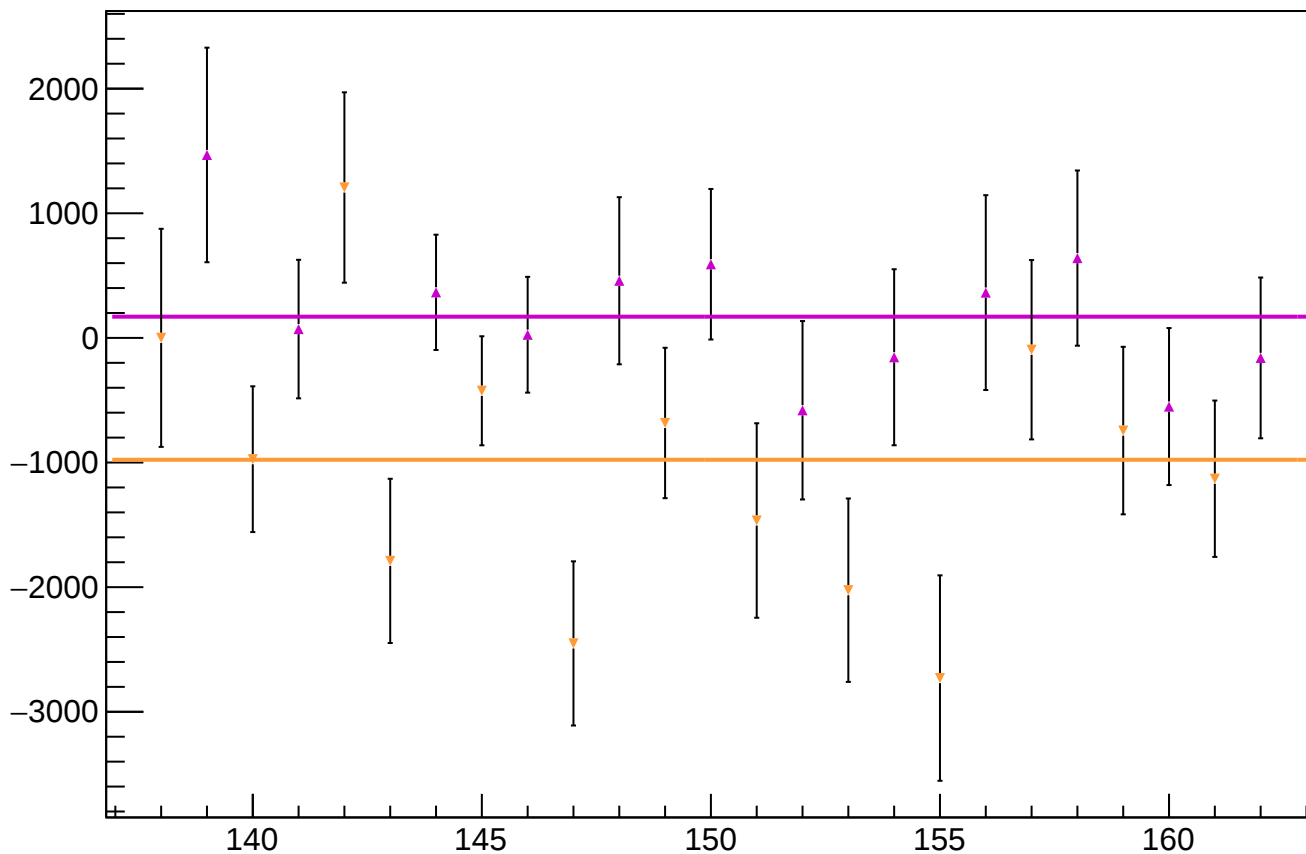
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 74.377+/-0.017  $\chi^2/\text{NDF}$ :187944.4/11

Out: 74.495+/-0.017  $\chi^2/\text{NDF}$ :337208.7/12

All: 74.435+/-0.012  $\chi^2/\text{NDF}$ : 525176.7/24

asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -977.749+/-182.049  $\chi^2/\text{NDF}$ :26.4/12

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

Left In: 170.387+/-178.455  $\chi^2/\text{NDF}$ :6.6/11

Left: -392.233+/-127.438  $\chi^2/\text{NDF}$ : 53.3/24

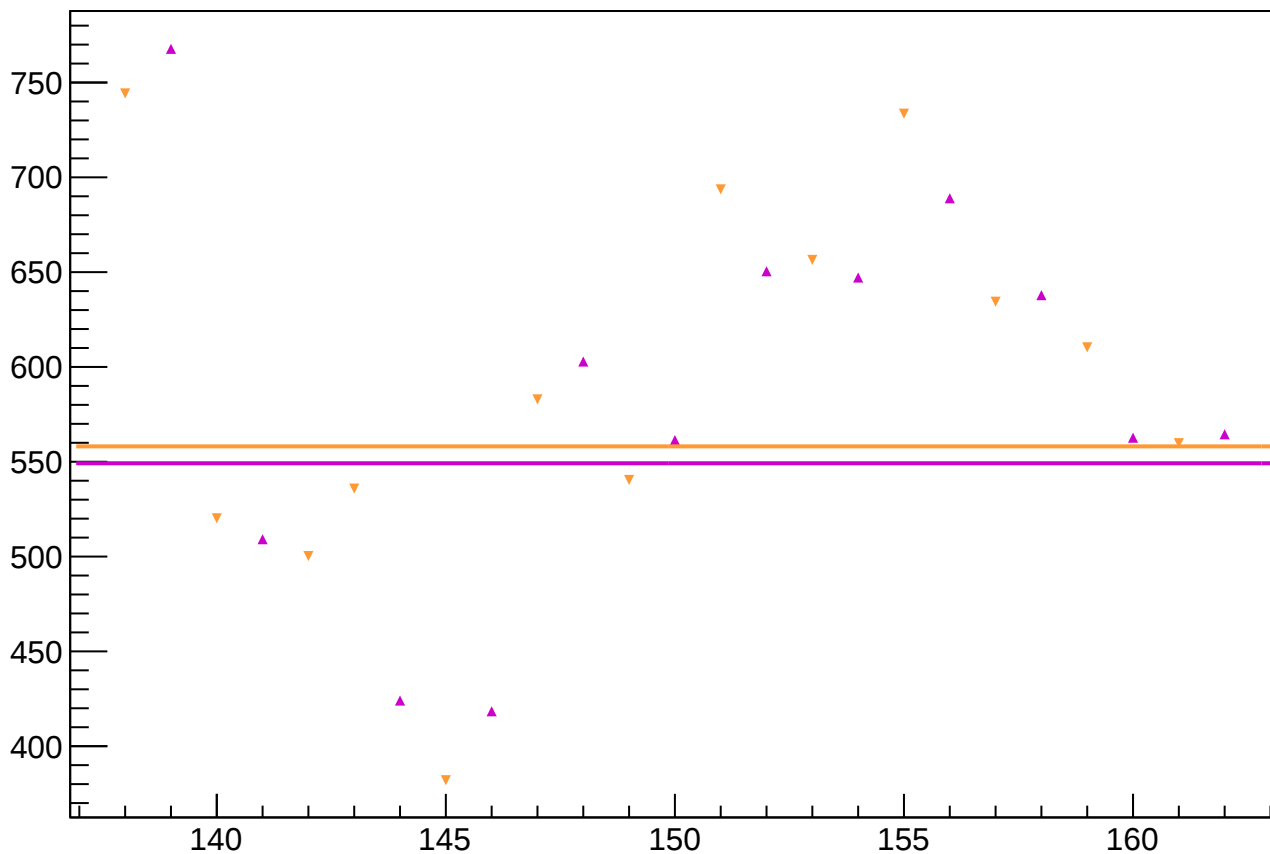
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 170.387+/-178.455  $\chi^2/\text{NDF}$ :6.6/11

Out: -977.749+/-182.049  $\chi^2/\text{NDF}$ :26.4/12

All: -392.233+/-127.438  $\chi^2/\text{NDF}$ : 53.3/24

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 558.116+/-0.129  $\chi^2/\text{NDF}$ :662495.3/12

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

Left In: 549.212+/-0.126  $\chi^2/\text{NDF}$ :634198.7/11

Left: 553.575+/-0.090  $\chi^2/\text{NDF}$ : 1299133.9/24

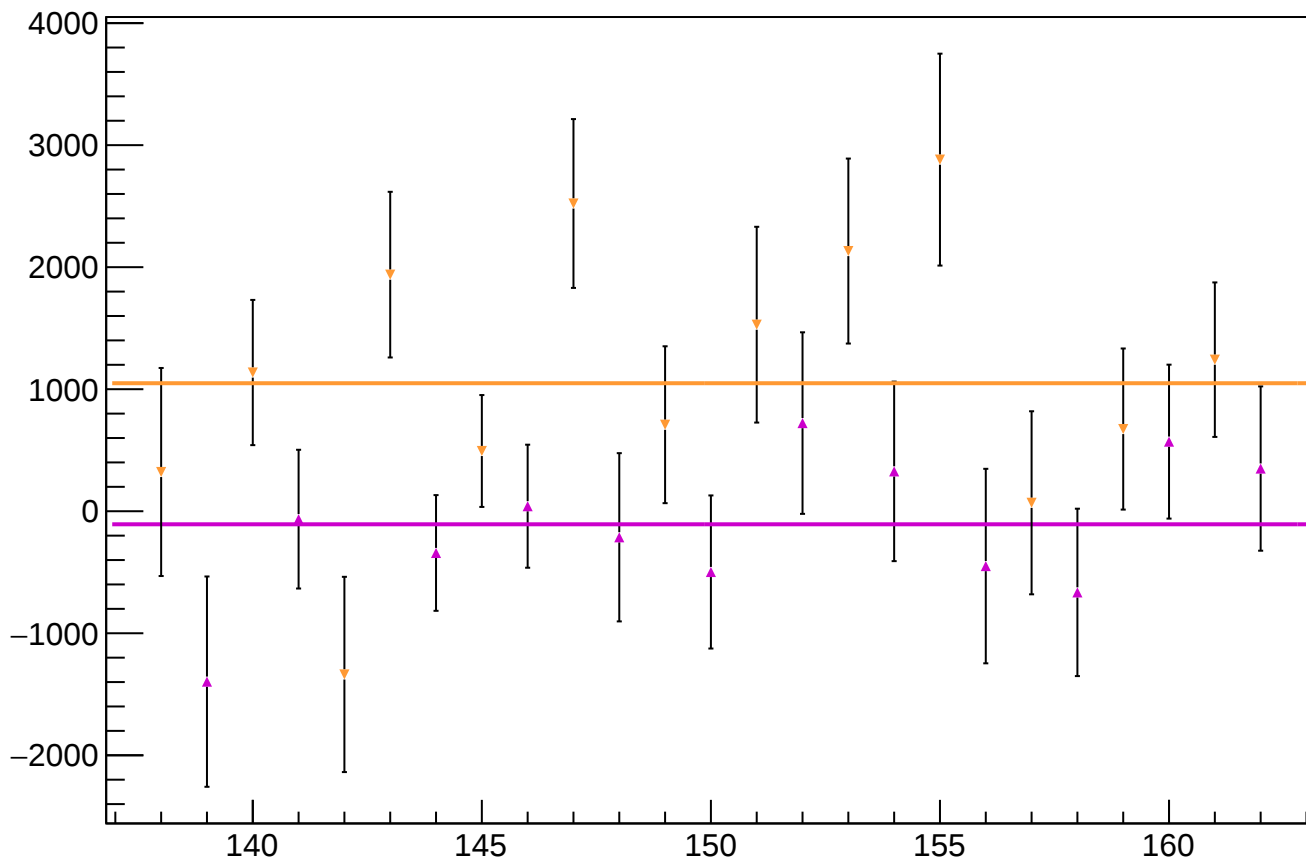
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 549.212+/-0.126  $\chi^2/\text{NDF}$ :634198.7/11

Out: 558.116+/-0.129  $\chi^2/\text{NDF}$ :662495.3/12

All: 553.575+/-0.090  $\chi^2/\text{NDF}$ : 1299133.9/24

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1049.042+/-187.679  $\chi^2/\text{NDF}$ :26.6/12

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

Left In: -107.033+/-183.983  $\chi^2/\text{NDF}$ :7.0/11

Left: 459.509+/-131.383  $\chi^2/\text{NDF}$ : 53.0/24

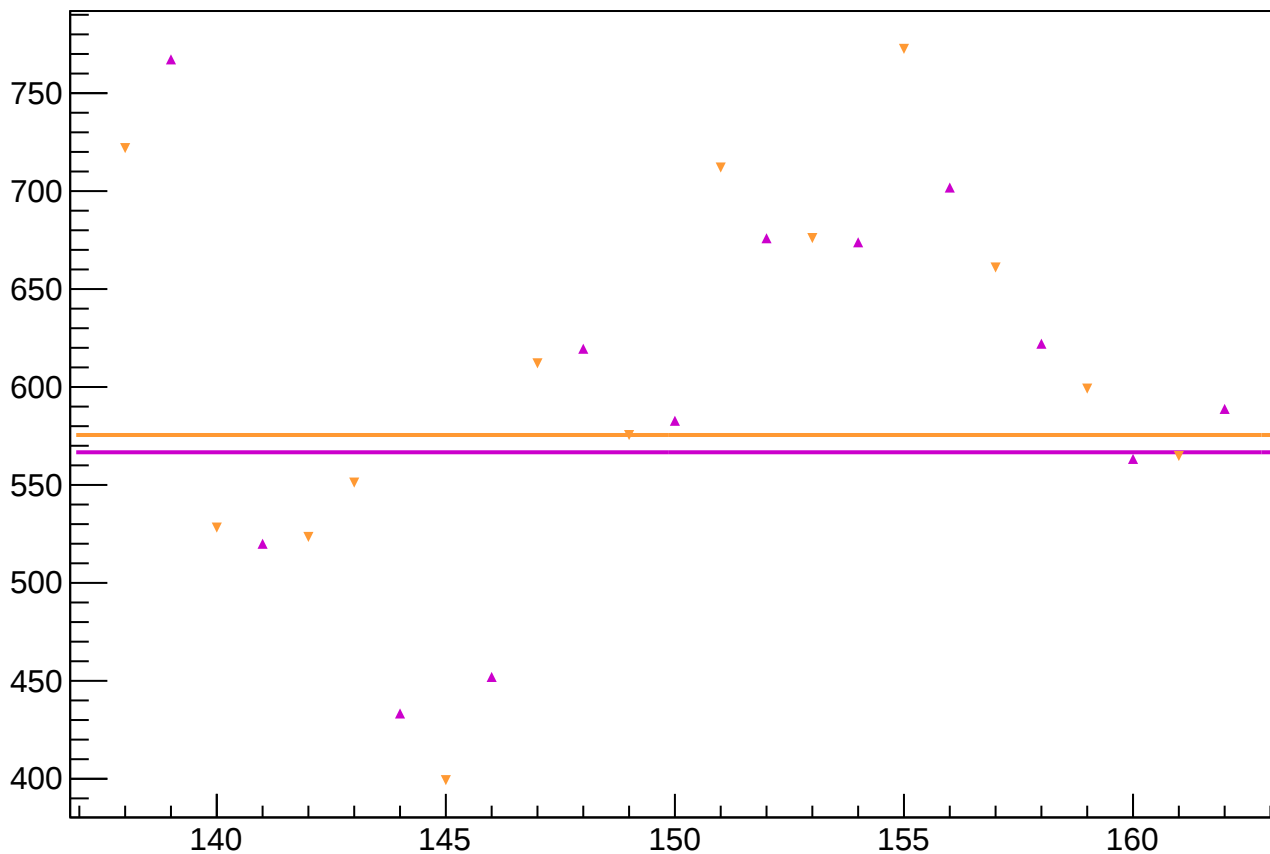
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -107.033+/-183.983  $\chi^2/\text{NDF}$ :7.0/11

Out: 1049.042+/-187.679  $\chi^2/\text{NDF}$ :26.6/12

All: 459.509+/-131.383  $\chi^2/\text{NDF}$ : 53.0/24

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 575.501+/-0.133  $\chi^2/\text{NDF}$ : 609058.0/12

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

Left In: 566.679+/-0.130  $\chi^2/\text{NDF}$ : 554924.3/11

Left: 571.002+/-0.093  $\chi^2/\text{NDF}$ : 1166235.8/24

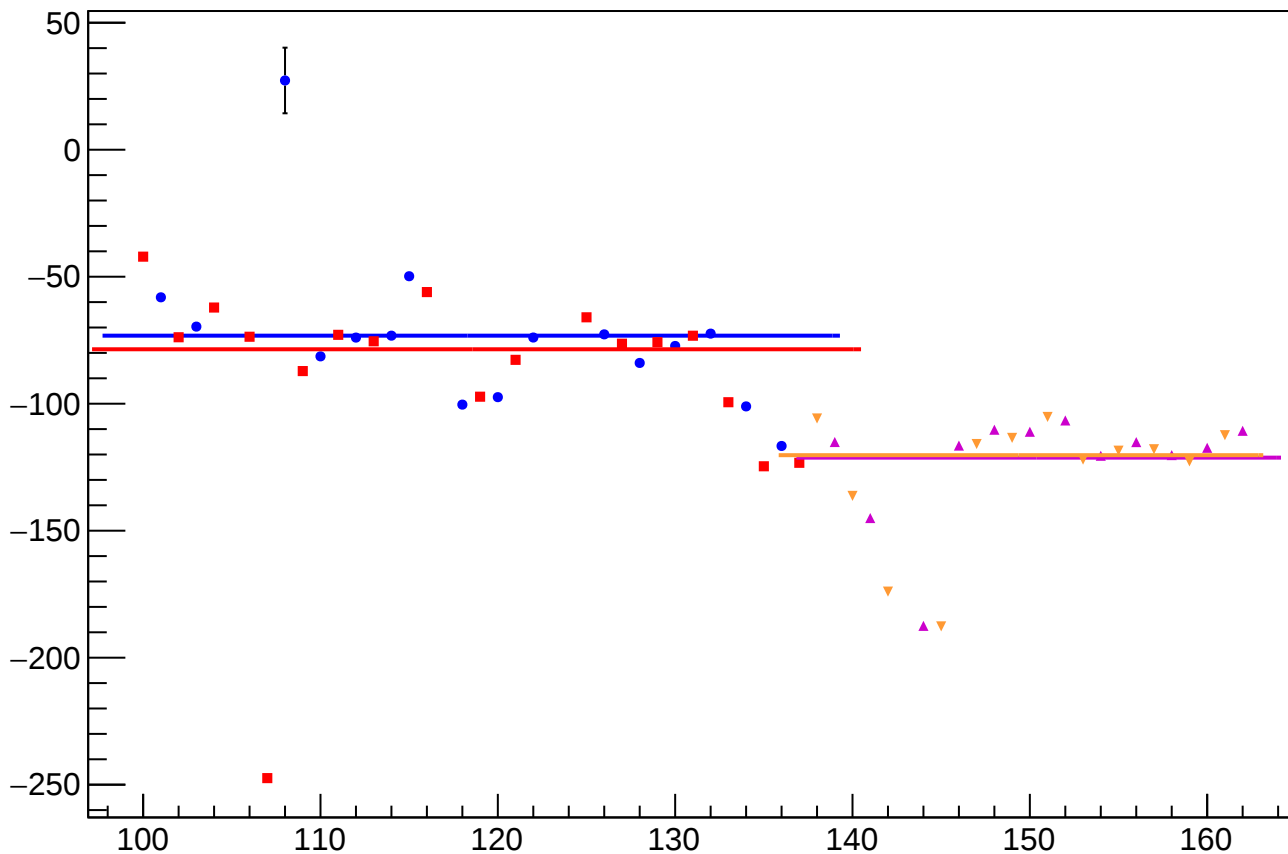
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 566.679+/-0.130  $\chi^2/\text{NDF}$ : 554924.3/11

Out: 575.501+/-0.133  $\chi^2/\text{NDF}$ : 609058.0/12

All: 571.002+/-0.093  $\chi^2/\text{NDF}$ : 1166235.8/24

# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}$ : 127655.5/15

Left Out:  $-120.267 \pm 0.081$   $\chi^2/\text{NDF}$ : 21418.2/11

Right Out:  $-78.570 \pm 0.093$   $\chi^2/\text{NDF}$ : 52084.9/17

Left In:  $-121.236 \pm 0.074$   $\chi^2/\text{NDF}$ : 44720.3/11

Left:  $-120.789 \pm 0.055$   $\chi^2/\text{NDF}$ : 66216.5/23

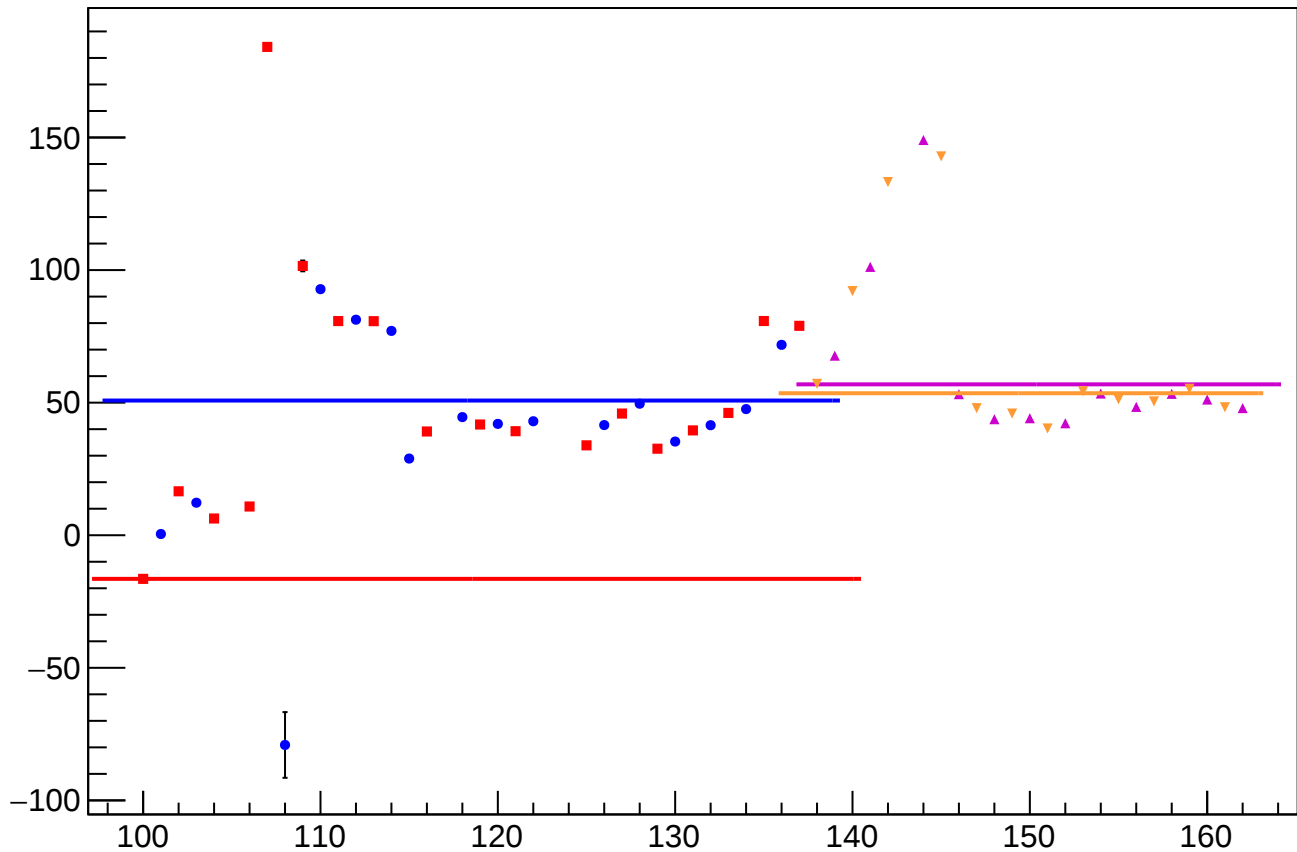
Right:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}$ : 183067.5/33

In:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}$ : 588384.5/27

Out:  $-102.375 \pm 0.061$   $\chi^2/\text{NDF}$ : 188437.1/29

All:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}$ : 1006366.3/57

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In:  $50.796 \pm 0.074$   $\chi^2/\text{NDF}: 89943.6/15$

Left Out:  $53.552 \pm 0.065$   $\chi^2/\text{NDF}: 41704.7/11$

Right Out:  $-16.452 \pm 0.000$   $\chi^2/\text{NDF}: 455268.5/17$

Left In:  $56.905 \pm 0.064$   $\chi^2/\text{NDF}: 108949.8/11$

Left:  $55.260 \pm 0.046$   $\chi^2/\text{NDF}: 152002.0/23$

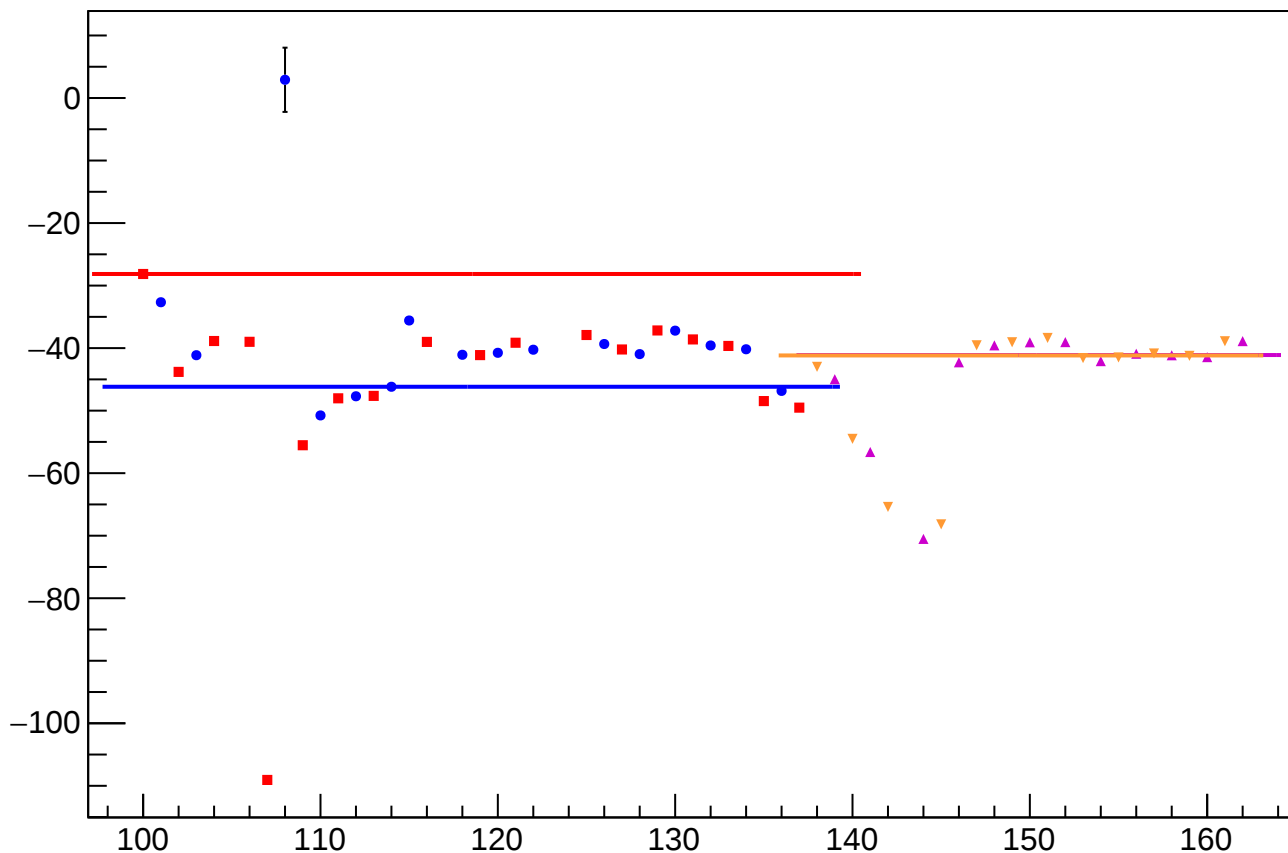
Right:  $-16.452 \pm 0.000$   $\chi^2/\text{NDF}: 1366073.0/33$

In:  $54.301 \pm 0.048$   $\chi^2/\text{NDF}: 202779.7/27$

Out:  $-16.452 \pm 0.000$   $\chi^2/\text{NDF}: 1649809.7/29$

All:  $-16.452 \pm 0.000$   $\chi^2/\text{NDF}: 3984183.6/57$

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In: -46.180+/-0.000  $\chi^2/\text{NDF}$ : 472878.7/15

Left Out: -41.170+/-0.009  $\chi^2/\text{NDF}$ : 75777.7/11

Right Out: -28.144+/-0.000  $\chi^2/\text{NDF}$ : 717935.6/17

Left In: -41.107+/-0.010  $\chi^2/\text{NDF}$ : 149103.4/11

Left: -41.142+/-0.006  $\chi^2/\text{NDF}$ : 224904.6/23

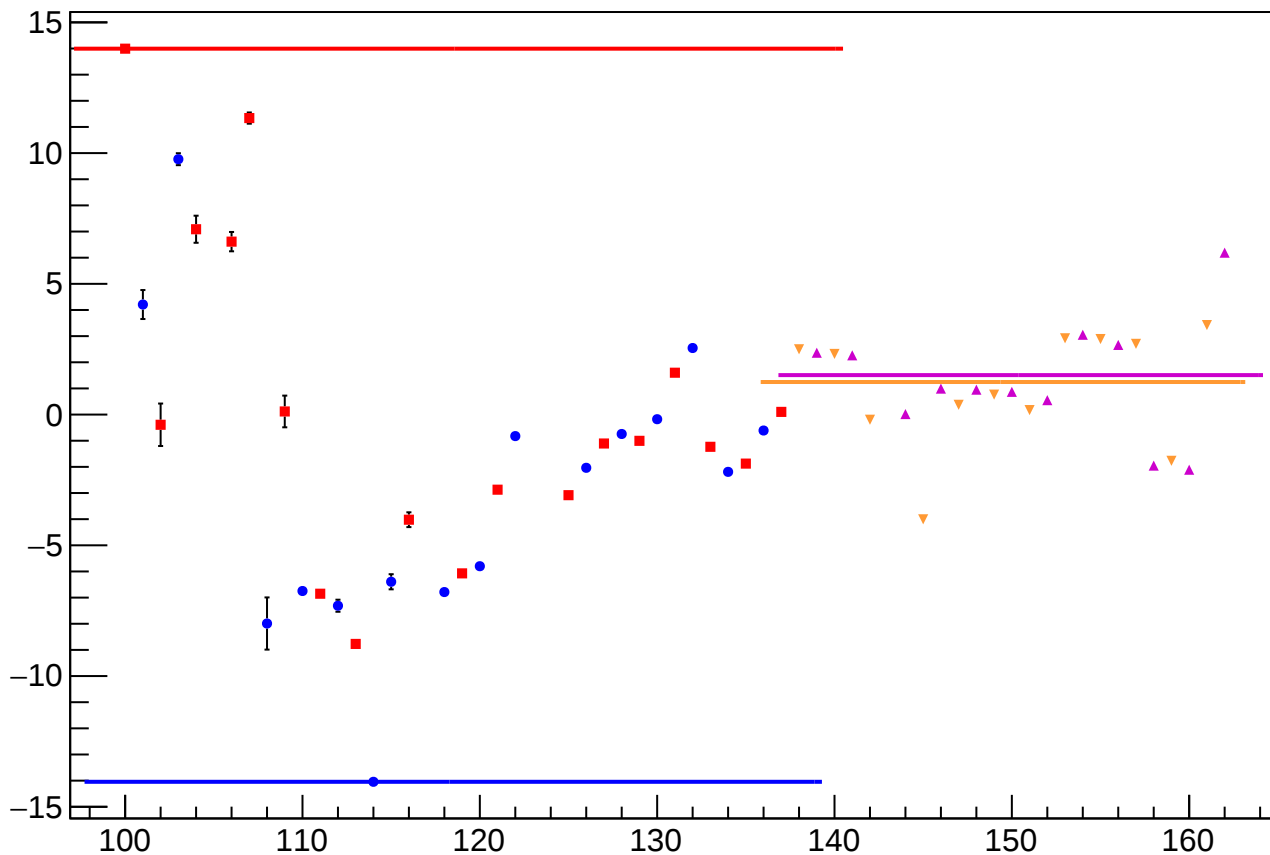
Right: -33.813+/-0.000  $\chi^2/\text{NDF}$ : 539977182263583

In: -46.180+/-0.000  $\chi^2/\text{NDF}$ : 888721.7/27

Out: -28.144+/-0.000  $\chi^2/\text{NDF}$ : 3068279.3/29

All: -33.813+/-0.000  $\chi^2/\text{NDF}$ : 539977182263

# dit\_usl\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-14.044 \pm 0.000$   $\chi^2/\text{NDF}: 759846.3/15$

Left Out:  $1.246 \pm 0.010$   $\chi^2/\text{NDF}: 34366.3/11$

Right Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}: 389892.9/17$

Left In:  $1.509 \pm 0.009$   $\chi^2/\text{NDF}: 73076.2/11$

Left:  $1.399 \pm 0.007$   $\chi^2/\text{NDF}: 107841.3/23$

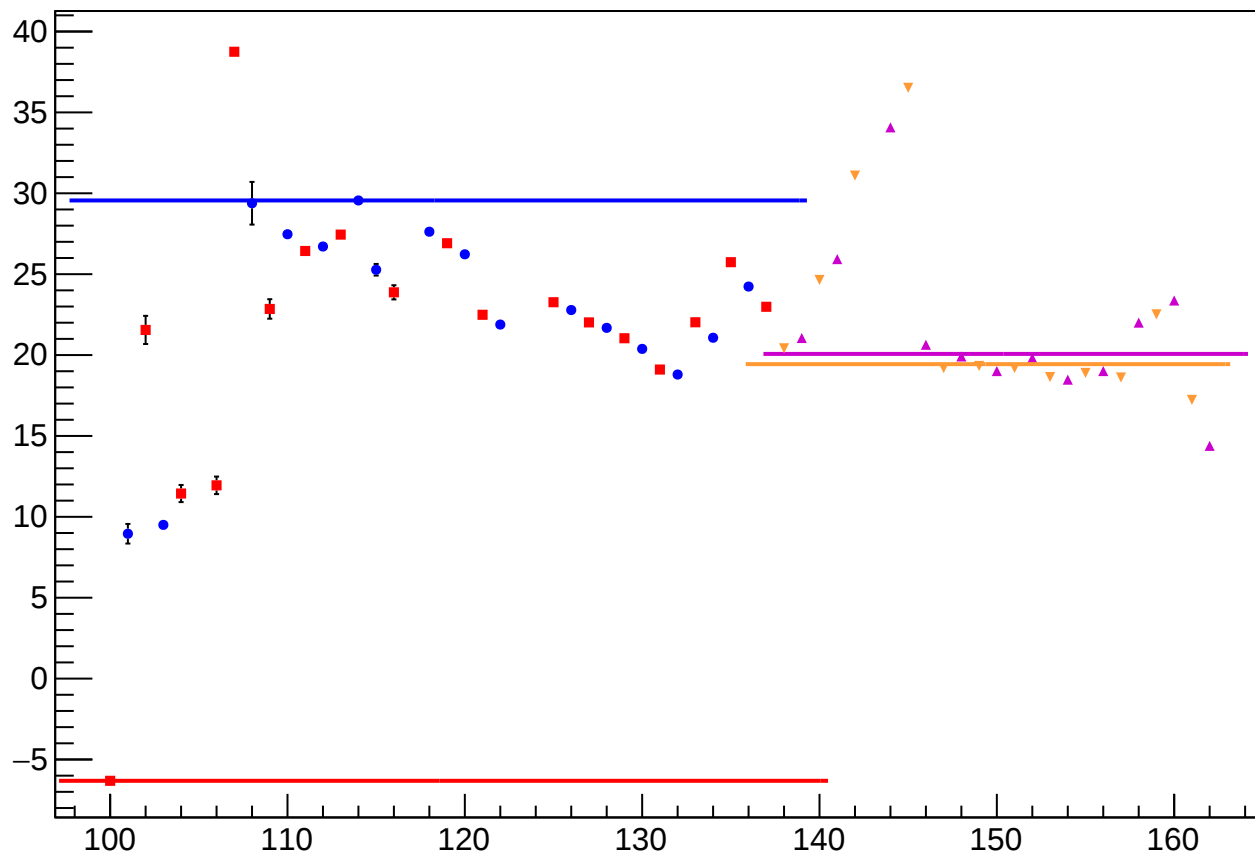
Right:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}: 46979633245184581$

In:  $-14.044 \pm 0.000$   $\chi^2/\text{NDF}: 4149286.2/27$

Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}: 2027142.2/29$

All:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}: 46979633245184$

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 29.557+/-0.000  $\chi^2/\text{NDF}$ : 88755.1/15

Left Out: 19.439+/-0.010  $\chi^2/\text{NDF}$ : 28626.6/11

Right Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ : 1630502.4/17

Left In: 20.071+/-0.009  $\chi^2/\text{NDF}$ : 83197.0/11

Left: 19.809+/-0.007  $\chi^2/\text{NDF}$ : 114044.6/23

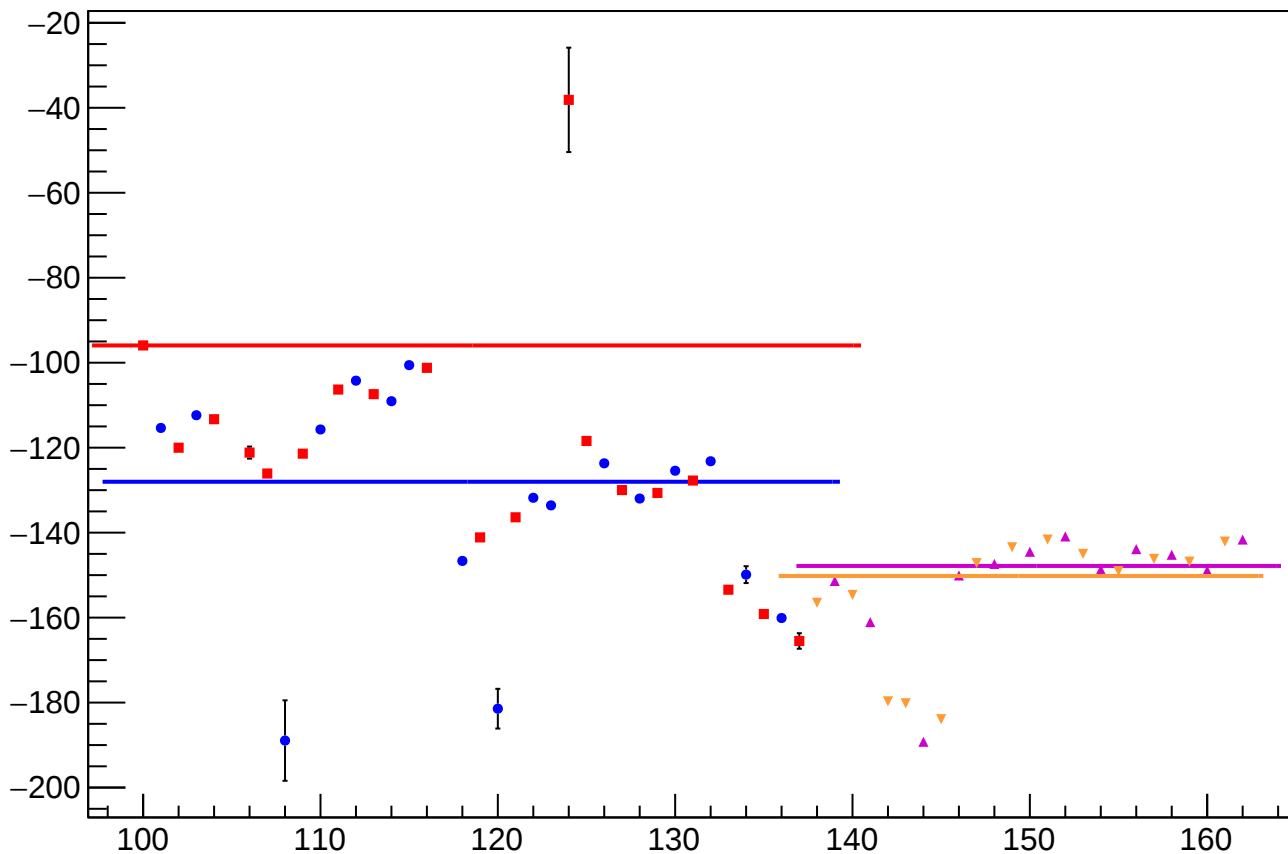
Right: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398160

In: 29.557+/-0.000  $\chi^2/\text{NDF}$ : 1378186.0/27

Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ : 7965155.4/29

All: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-128.021 \pm 0.098$   $\chi^2/\text{NDF}$ : 38162.5/16

Left Out:  $-150.195 \pm 0.067$   $\chi^2/\text{NDF}$ : 26926.1/12

Right Out:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 168284.2/18

Left In:  $-147.837 \pm 0.059$   $\chi^2/\text{NDF}$ : 22302.7/11

Left:  $-148.868 \pm 0.044$   $\chi^2/\text{NDF}$ : 49924.8/24

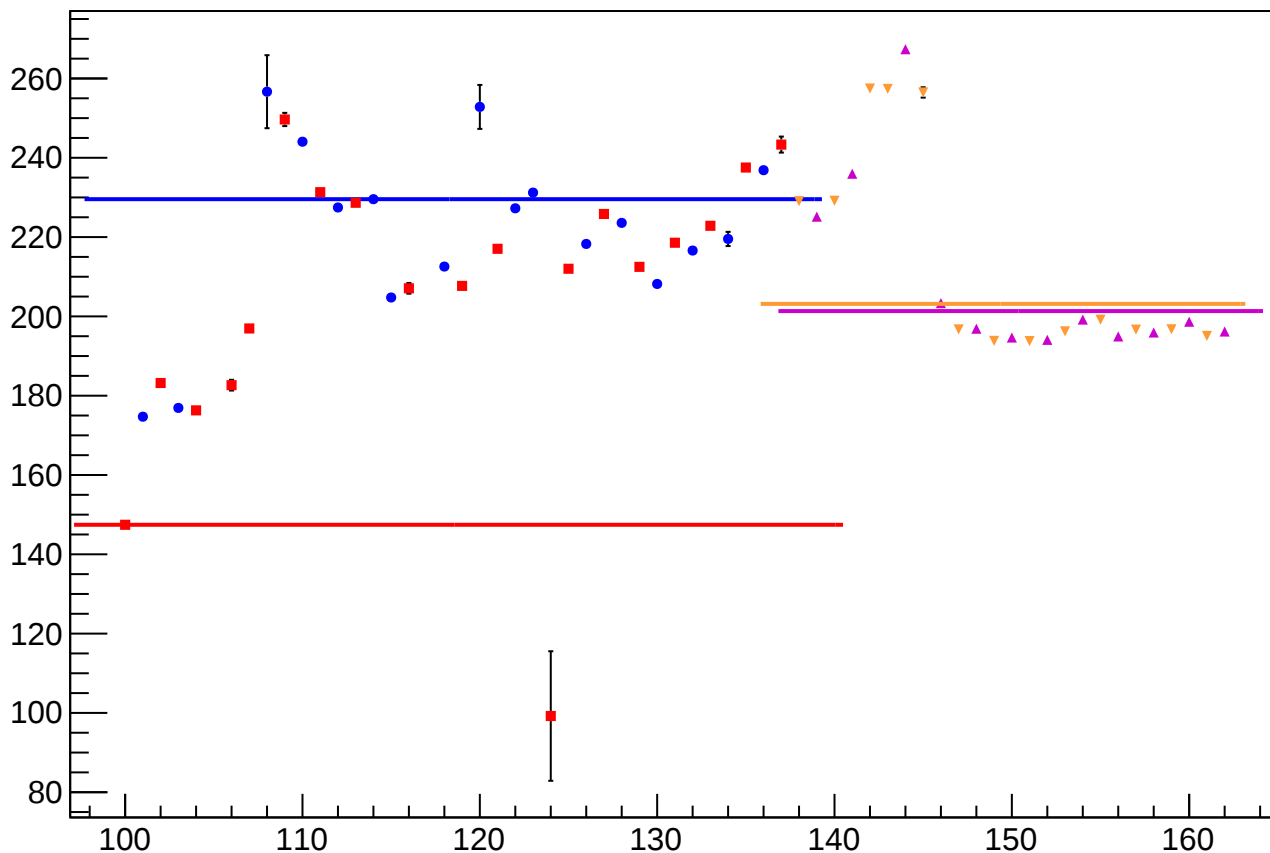
Right:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 313037.7/35

In:  $-142.574 \pm 0.051$   $\chi^2/\text{NDF}$ : 90321.4/28

Out:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 849900.6/31

All:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 1788120.6/60

# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 229.560 $\pm$ 0.000  $\chi^2$ /NDF: 37813.1/16

Left Out: 203.153 $\pm$ 0.055  $\chi^2$ /NDF:103069.4/12

Right Out: 147.445 $\pm$ 0.000  $\chi^2$ /NDF: 546753.3/18

Left In: 201.342 $\pm$ 0.051  $\chi^2$ /NDF:76146.0/11

Left: 202.180 $\pm$ 0.037  $\chi^2$ /NDF: 179802.2/24

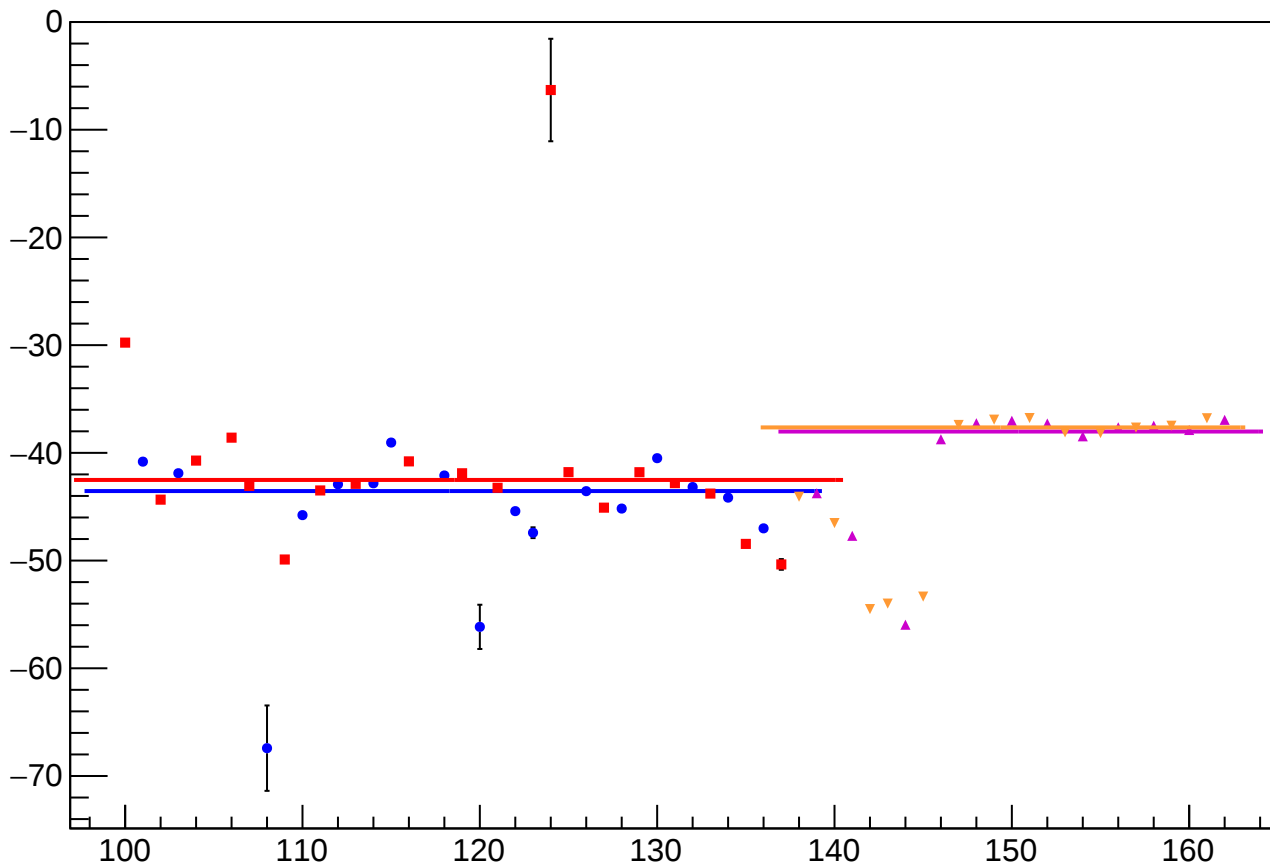
Right: 173.253 $\pm$ 0.000  $\chi^2$ /NDF: 157405034293311

In: 229.560 $\pm$ 0.000  $\chi^2$ /NDF:421776.4/28

Out: 147.445 $\pm$ 0.000  $\chi^2$ /NDF:1682364.3/31

All: 173.253 $\pm$ 0.000  $\chi^2$ /NDF: 157405034293

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-43.546 \pm 0.023$   $\chi^2/\text{NDF}: 12997.3/16$

Left Out:  $-37.637 \pm 0.005$   $\chi^2/\text{NDF}: 240444.2/12$

Right Out:  $-42.515 \pm 0.021$   $\chi^2/\text{NDF}: 7216.9/18$

Left In:  $-38.021 \pm 0.005$   $\chi^2/\text{NDF}: 132460.6/11$

Left:  $-37.805 \pm 0.003$   $\chi^2/\text{NDF}: 375878.4/24$

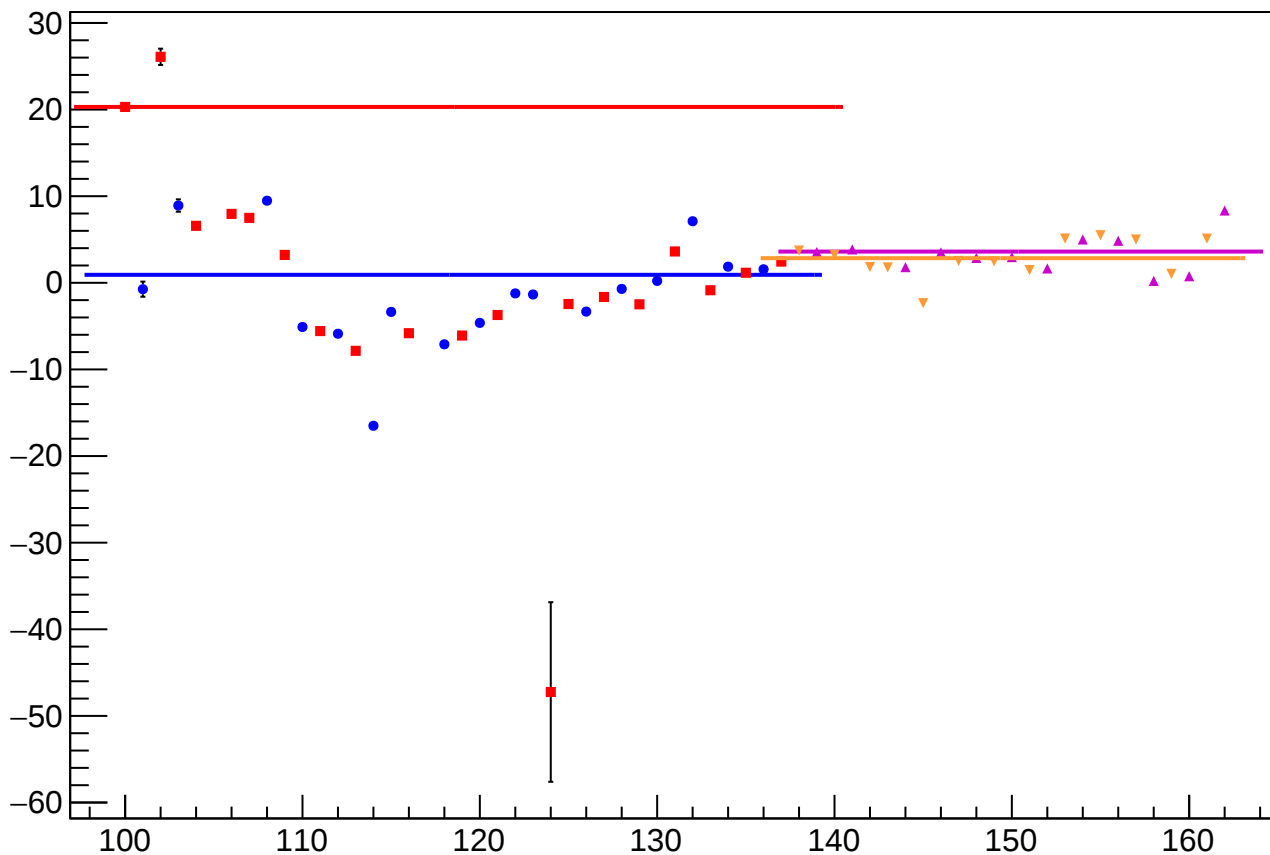
Right:  $-42.980 \pm 0.015$   $\chi^2/\text{NDF}: 21321.7/35$

In:  $-38.297 \pm 0.005$   $\chi^2/\text{NDF}: 200424.8/28$

Out:  $-37.869 \pm 0.005$   $\chi^2/\text{NDF}: 299964.9/31$

All:  $-38.056 \pm 0.003$   $\chi^2/\text{NDF}: 504297.5/60$

# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.923 $\pm$ 0.020     $\chi^2/\text{NDF}$ : 21353.5/16

Left Out: 2.845 $\pm$ 0.009     $\chi^2/\text{NDF}$ :35919.3/12

Right Out: 20.304 $\pm$ 0.000     $\chi^2/\text{NDF}$ : 918407.4/18

Left In: 3.607 $\pm$ 0.009     $\chi^2/\text{NDF}$ :60738.0/11

Left: 3.256 $\pm$ 0.006     $\chi^2/\text{NDF}$ : 100252.0/24

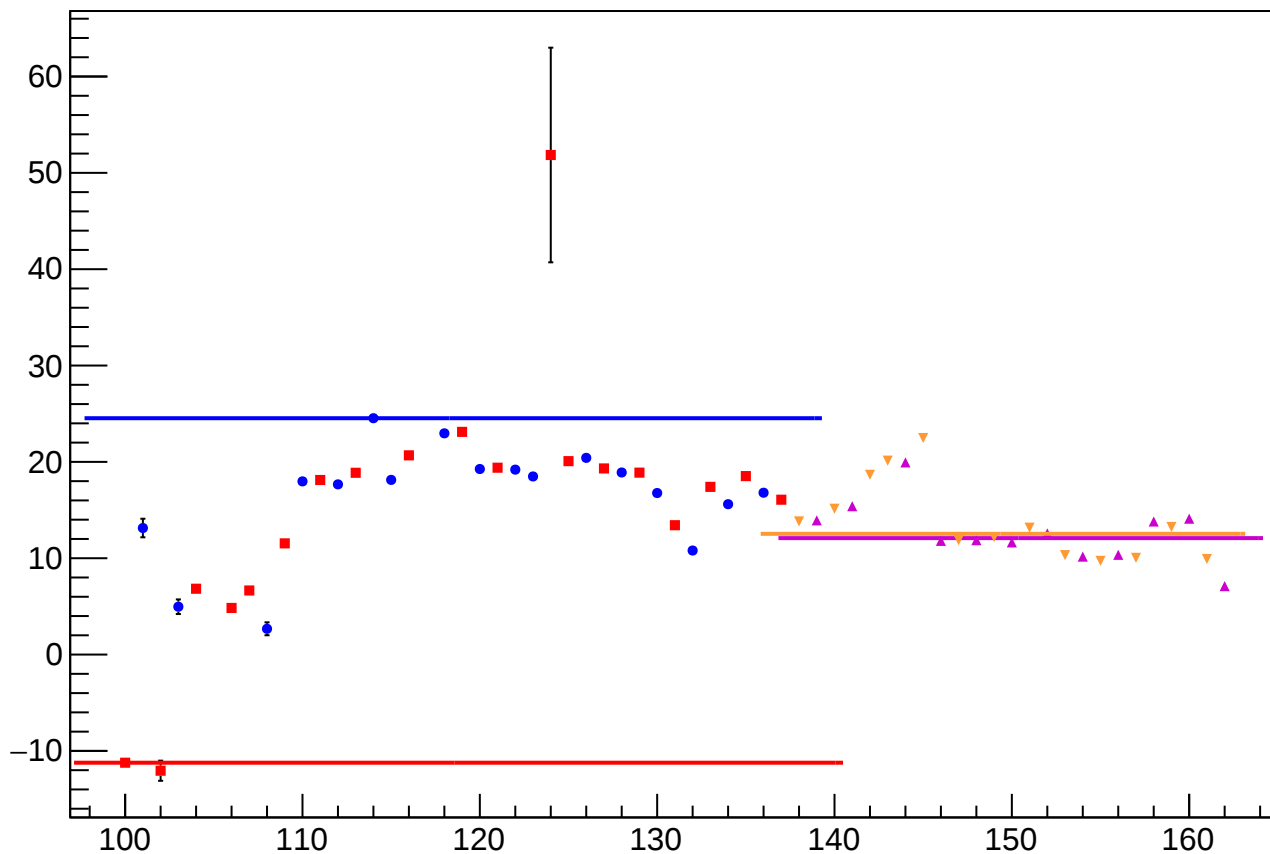
Right: 20.304 $\pm$ 0.000     $\chi^2/\text{NDF}$ : 1860705.2/35

In: 3.193 $\pm$ 0.008     $\chi^2/\text{NDF}$ :97026.0/28

Out: 20.304 $\pm$ 0.000     $\chi^2/\text{NDF}$ :4445985.8/31

All: 20.304 $\pm$ 0.000     $\chi^2/\text{NDF}$ : 9198715.8/60

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In:  $24.533 \pm 0.000$   $\chi^2/\text{NDF}: 119839.5/16$

Left Out:  $12.534 \pm 0.011$   $\chi^2/\text{NDF}: 54572.3/12$

Right Out:  $-11.224 \pm 0.000$   $\chi^2/\text{NDF}: 2204048.4/18$

Left In:  $12.087 \pm 0.011$   $\chi^2/\text{NDF}: 43469.2/11$

Left:  $12.306 \pm 0.008$   $\chi^2/\text{NDF}: 98916.0/24$

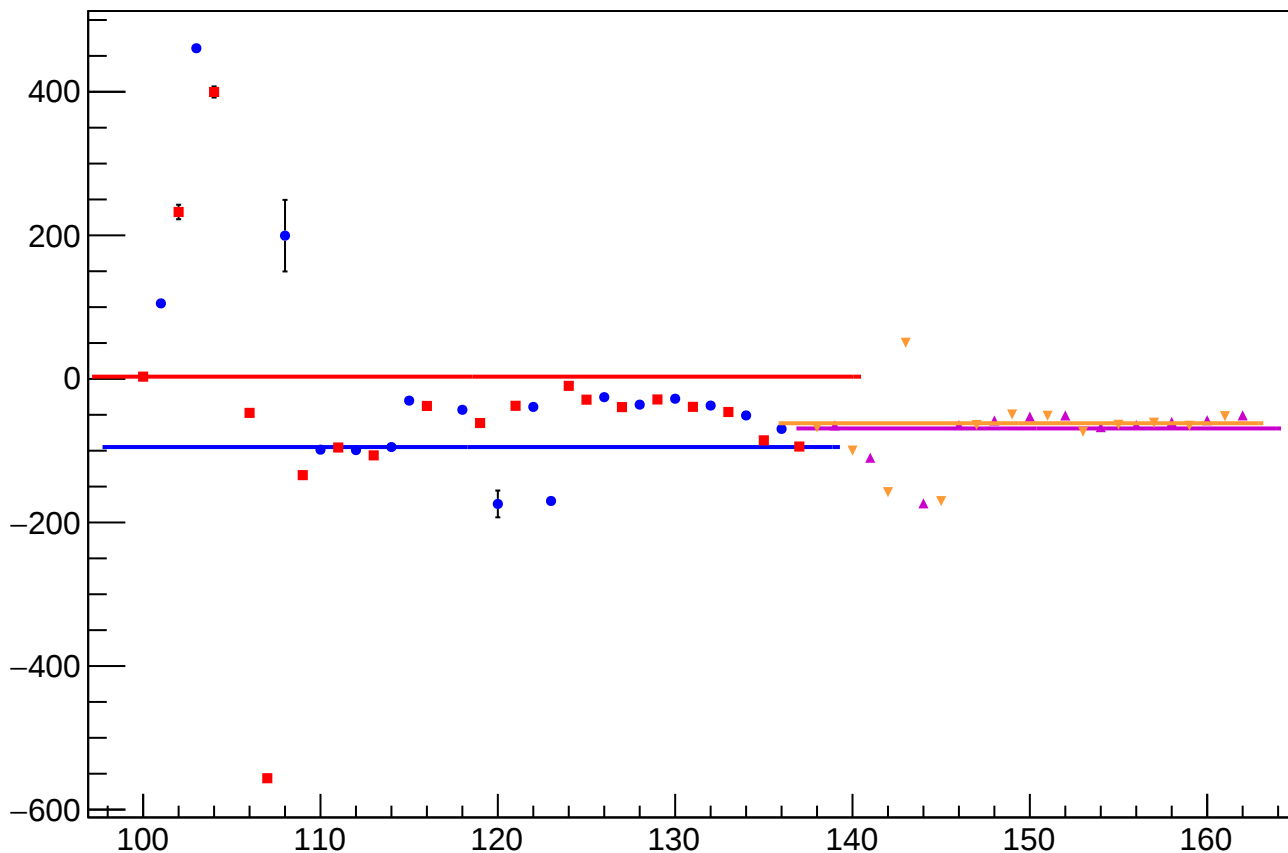
Right:  $-7.548 \pm 0.000$   $\chi^2/\text{NDF}: 2499340702901629$

In:  $24.533 \pm 0.000$   $\chi^2/\text{NDF}: 1550670.1/28$

Out:  $-11.224 \pm 0.000$   $\chi^2/\text{NDF}: 7094221.6/31$

All:  $-7.548 \pm 0.000$   $\chi^2/\text{NDF}: 2499340702901$

# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-94.927 \pm 0.000$

$\chi^2/\text{NDF}: 718777.6/16$

Left Out:  $-61.751 \pm 0.130$

$\chi^2/\text{NDF}: 41268.6/12$

Right Out:  $3.148 \pm 0.000$

$\chi^2/\text{NDF}: 61196784.3/18$

Left In:  $-68.992 \pm 0.147$

$\chi^2/\text{NDF}: 37368.2/11$

Left:  $-64.939 \pm 0.097$

$\chi^2/\text{NDF}: 80001.7/24$

Right:  $2.973 \pm 0.000$

$\chi^2/\text{NDF}: 52299232074263321$

In:  $-94.927 \pm 0.000$

$\chi^2/\text{NDF}: 787420.9/28$

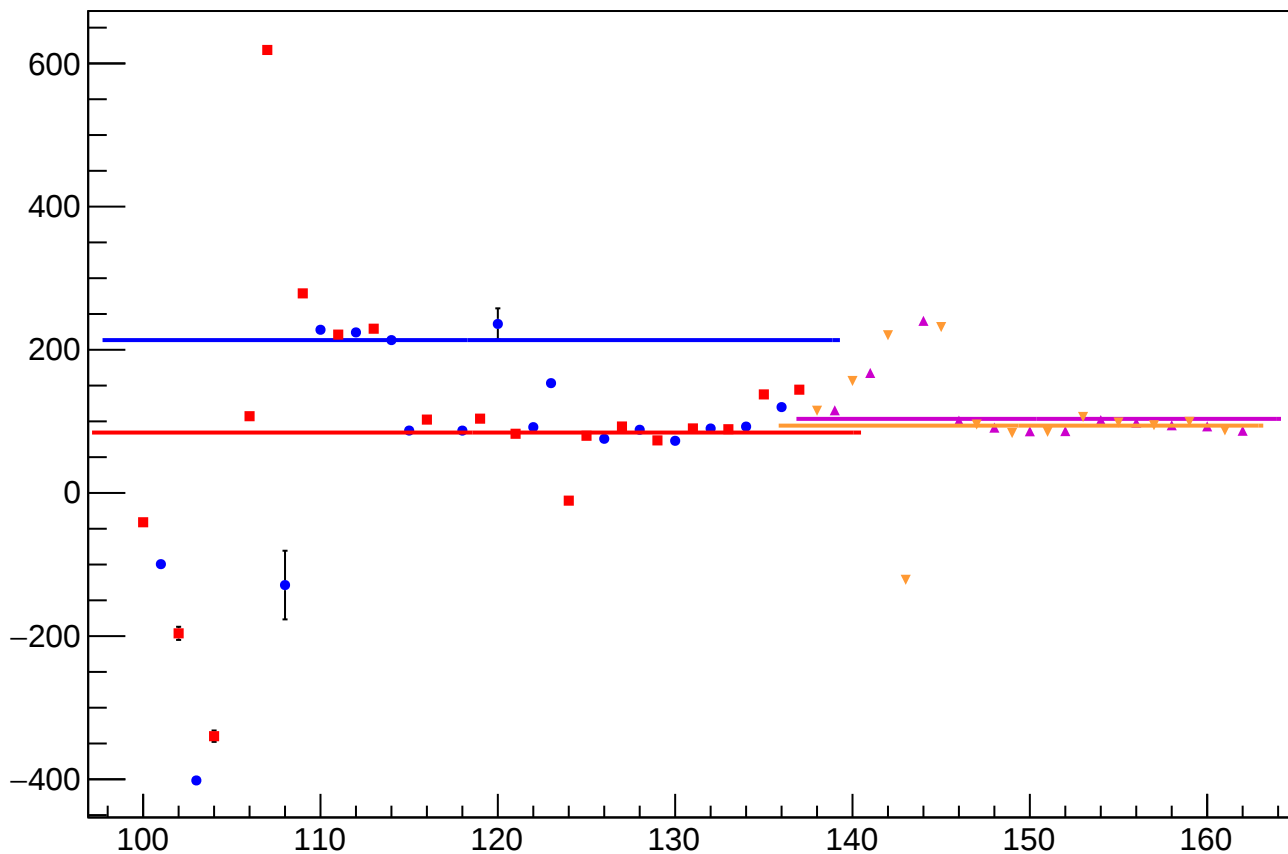
Out:  $3.148 \pm 0.000$

$\chi^2/\text{NDF}: 61487111.6/31$

All:  $2.973 \pm 0.000$

$\chi^2/\text{NDF}: 52299232074263$

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In: 213.523 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2690617.8/16

Left Out: 94.060 $\pm$ 0.109  $\chi^2/\text{NDF}$ : 150356.2/12

Right Out: 84.377 $\pm$ 0.176  $\chi^2/\text{NDF}$ : 227868.3/18

Left In: 103.486 $\pm$ 0.126  $\chi^2/\text{NDF}$ : 58533.1/11

Left: 98.076 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 212094.8/24

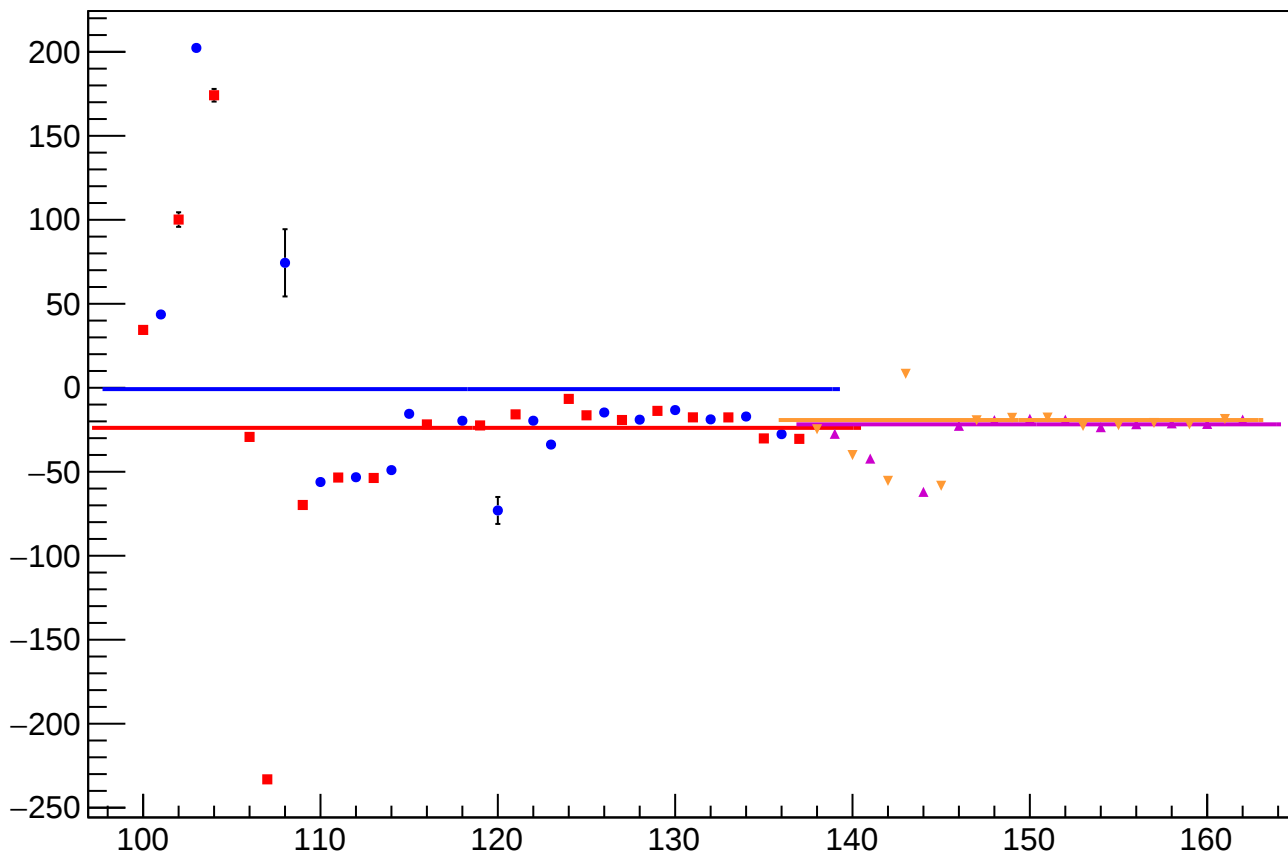
Right: 213.523 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3455404.0/35

In: 213.523 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3510272.5/28

Out: 91.393 $\pm$ 0.093  $\chi^2/\text{NDF}$ : 380411.4/31

All: 213.523 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5633832.5/60

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-0.799 \pm 0.031$   $\chi^2/\text{NDF}$ : 2816818.1/16

Left Out:  $-19.206 \pm 0.013$   $\chi^2/\text{NDF}$ : 564290.4/12

Right Out:  $-23.861 \pm 0.044$   $\chi^2/\text{NDF}$ : 200002.4/18

Left In:  $-21.772 \pm 0.018$   $\chi^2/\text{NDF}$ : 121765.5/11

Left:  $-20.141 \pm 0.011$   $\chi^2/\text{NDF}$ : 699503.8/24

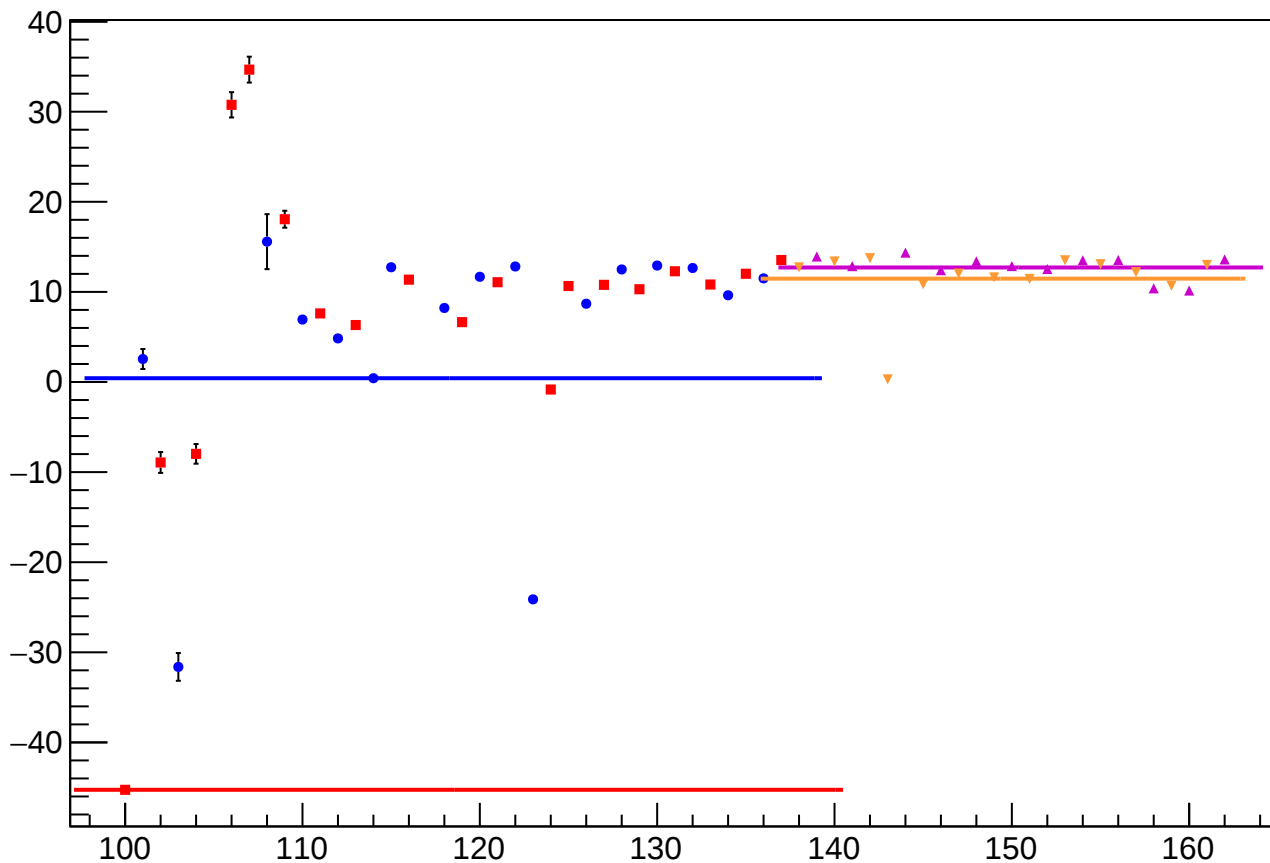
Right:  $-8.664 \pm 0.025$   $\chi^2/\text{NDF}$ : 3201437.1/35

In:  $-16.729 \pm 0.015$   $\chi^2/\text{NDF}$ : 3278601.7/28

Out:  $-19.606 \pm 0.013$   $\chi^2/\text{NDF}$ : 774727.3/31

All:  $-18.431 \pm 0.010$   $\chi^2/\text{NDF}$ : 4074058.1/60

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.420+/-0.000  $\chi^2/\text{NDF}$ : 84744.6/16

Left Out: 11.471+/-0.020  $\chi^2/\text{NDF}$ :24980.6/12

Right Out: -45.259+/-0.000  $\chi^2/\text{NDF}$ : 1298633.3/18

Left In: 12.710+/-0.017  $\chi^2/\text{NDF}$ :4791.9/11

Left: 12.201+/-0.013  $\chi^2/\text{NDF}$ : 31949.9/24

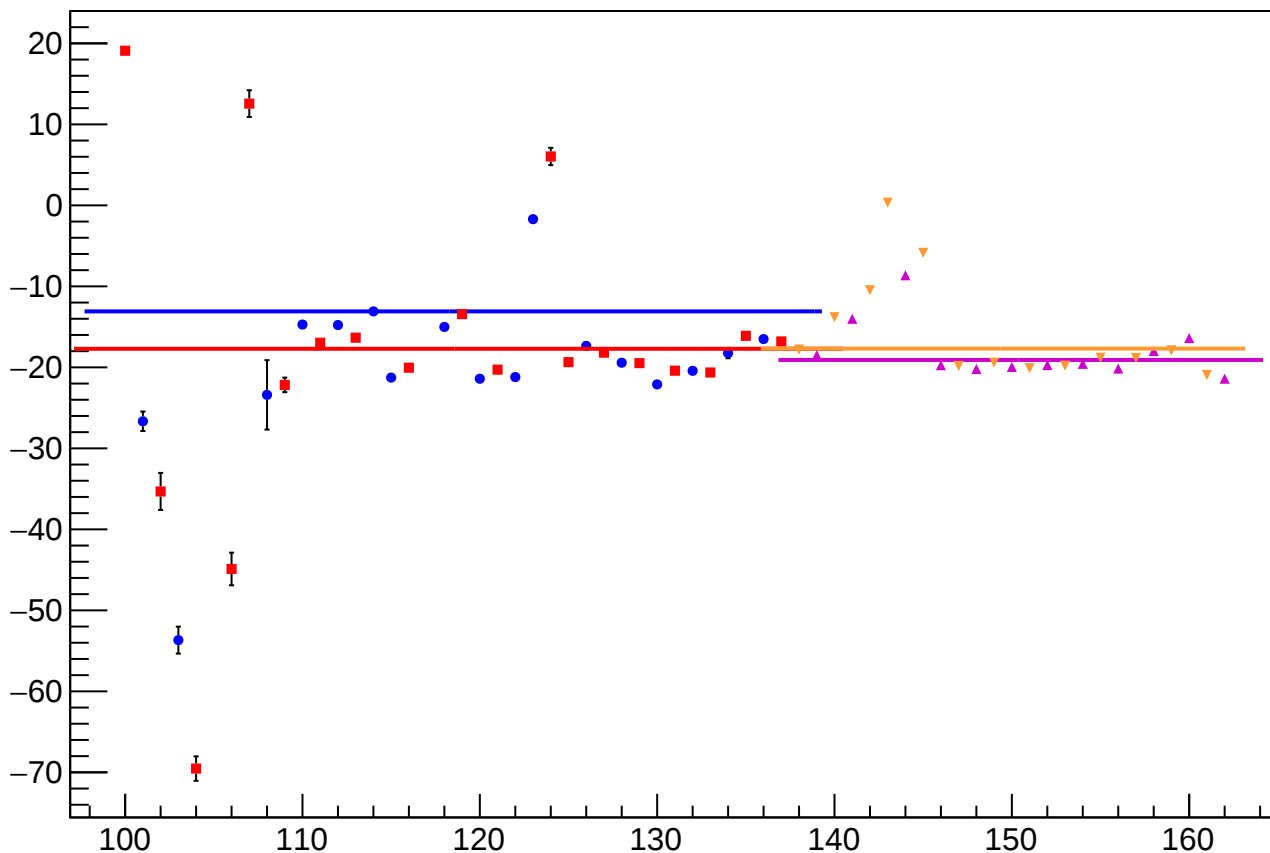
Right: 0.419+/-0.000  $\chi^2/\text{NDF}$ : 24797052003265142

In: 0.420+/-0.000  $\chi^2/\text{NDF}$ :610925.6/28

Out: -45.259+/-0.000  $\chi^2/\text{NDF}$ :9068017.1/31

All: 0.419+/-0.000  $\chi^2/\text{NDF}$ : 24797052003265

# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In: -13.090 $\pm$ 0.000  $\chi^2$ /NDF: 30071.6/16

Left Out: -17.686 $\pm$ 0.022  $\chi^2$ /NDF:41209.8/12

Right Out: -17.705 $\pm$ 0.048  $\chi^2$ /NDF: 14635.4/18

Left In: -19.085 $\pm$ 0.020  $\chi^2$ /NDF:8507.3/11

Left: -18.456 $\pm$ 0.015  $\chi^2$ /NDF: 51932.1/24

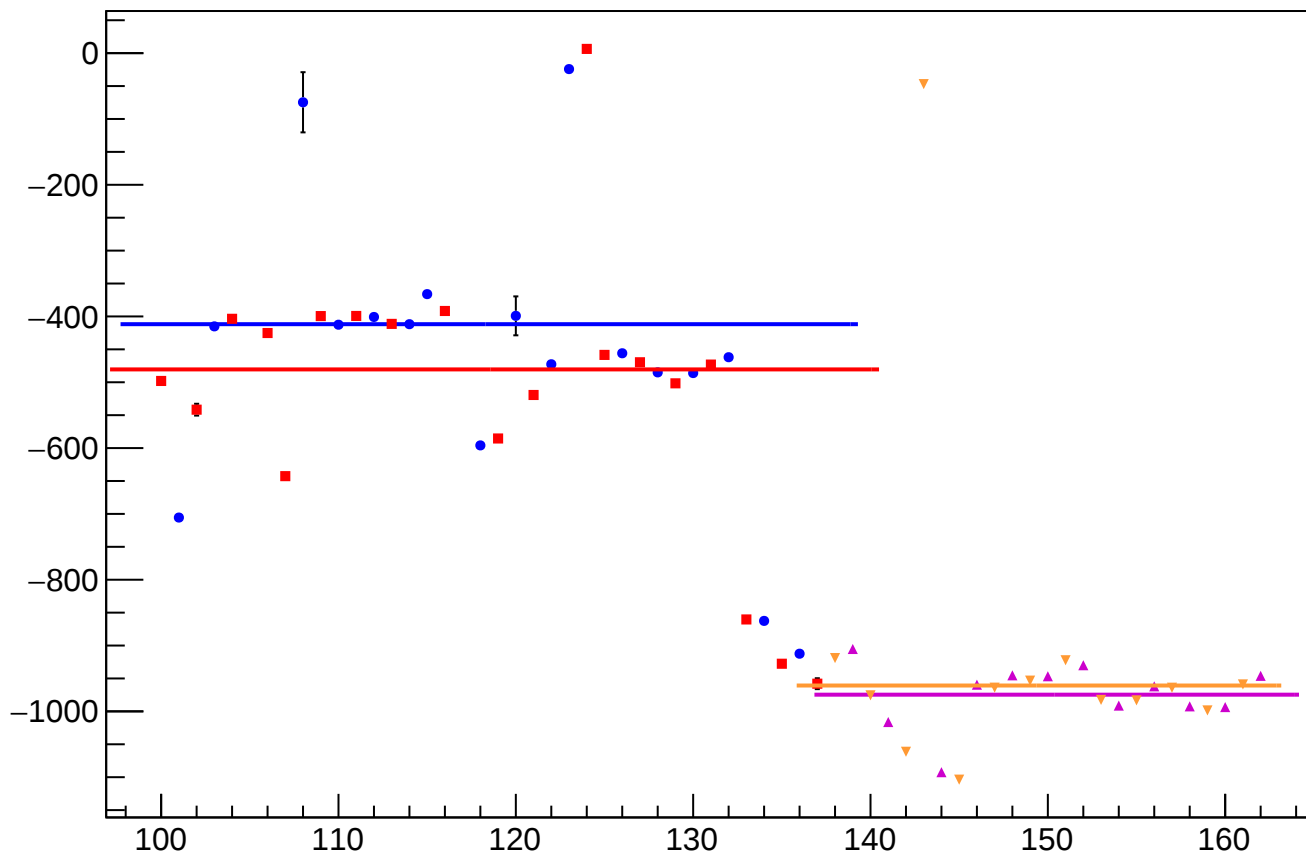
Right: -13.090 $\pm$ 0.000  $\chi^2$ /NDF: 53991.0/35

In: -13.090 $\pm$ 0.000  $\chi^2$ /NDF:128900.6/28

Out: -17.689 $\pm$ 0.020  $\chi^2$ /NDF:55845.3/31

All: -13.090 $\pm$ 0.000  $\chi^2$ /NDF: 237433.2/60

# dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 984974.9/16

Left Out: -960.722+/-0.222  $\chi^2/\text{NDF}$ :271588.6/12

Right Out: -480.481+/-0.166  $\chi^2/\text{NDF}$ : 596807.0/18

Left In: -974.647+/-0.202  $\chi^2/\text{NDF}$ :24462.0/11

Left: -968.337+/-0.149  $\chi^2/\text{NDF}$ : 298207.0/24

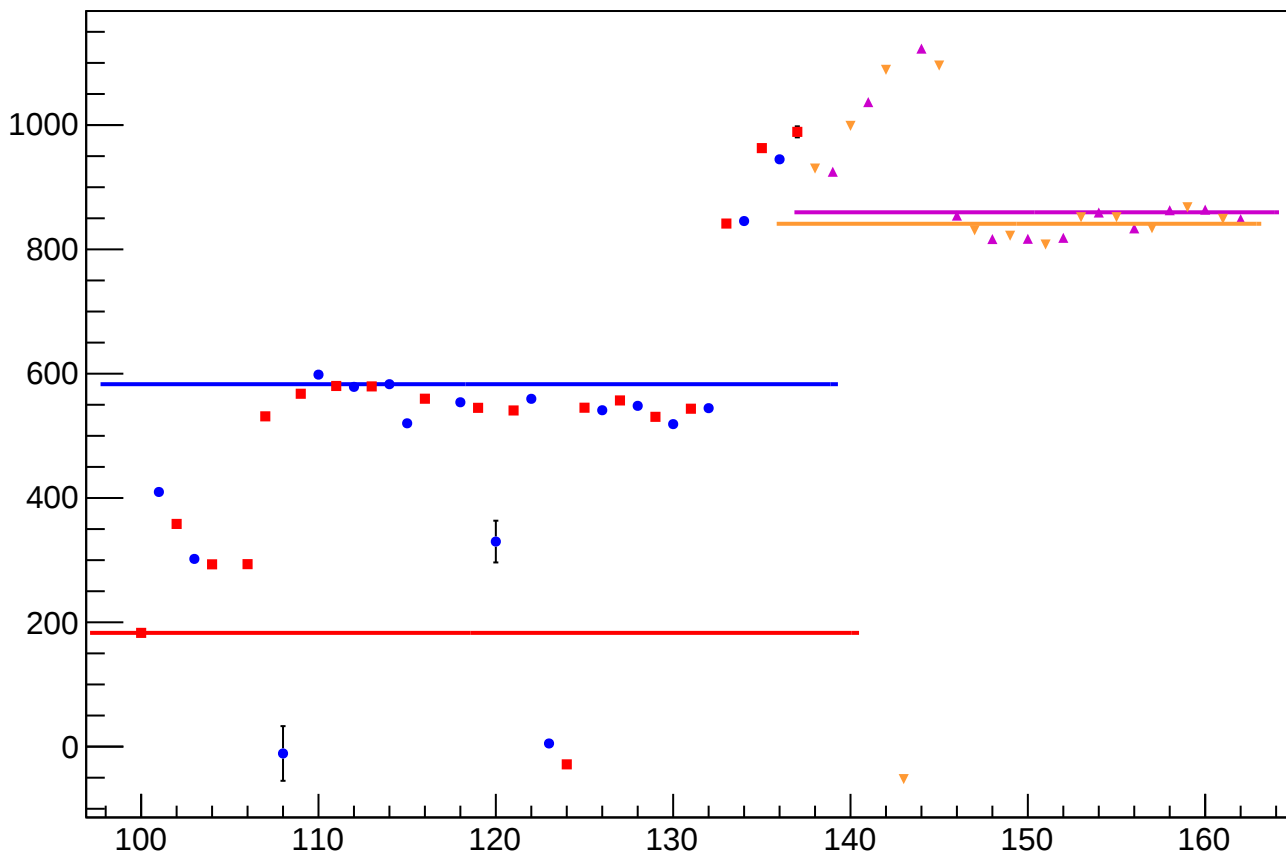
Right: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 1752754.1/35

In: -411.771+/-0.000  $\chi^2/\text{NDF}$ :8784681.9/28

Out: -653.165+/-0.133  $\chi^2/\text{NDF}$ :3871622.9/31

All: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 15951394.5/6

# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $583.096 \pm 0.000$   $\chi^2/\text{NDF}: 1695243.6/16$

Left Out:  $841.196 \pm 0.173$   $\chi^2/\text{NDF}: 368805.4/12$

Right Out:  $182.993 \pm 0.000$   $\chi^2/\text{NDF}: 2983395.1/18$

Left In:  $859.662 \pm 0.173$   $\chi^2/\text{NDF}: 86625.0/11$

Left:  $850.386 \pm 0.122$   $\chi^2/\text{NDF}: 461127.3/24$

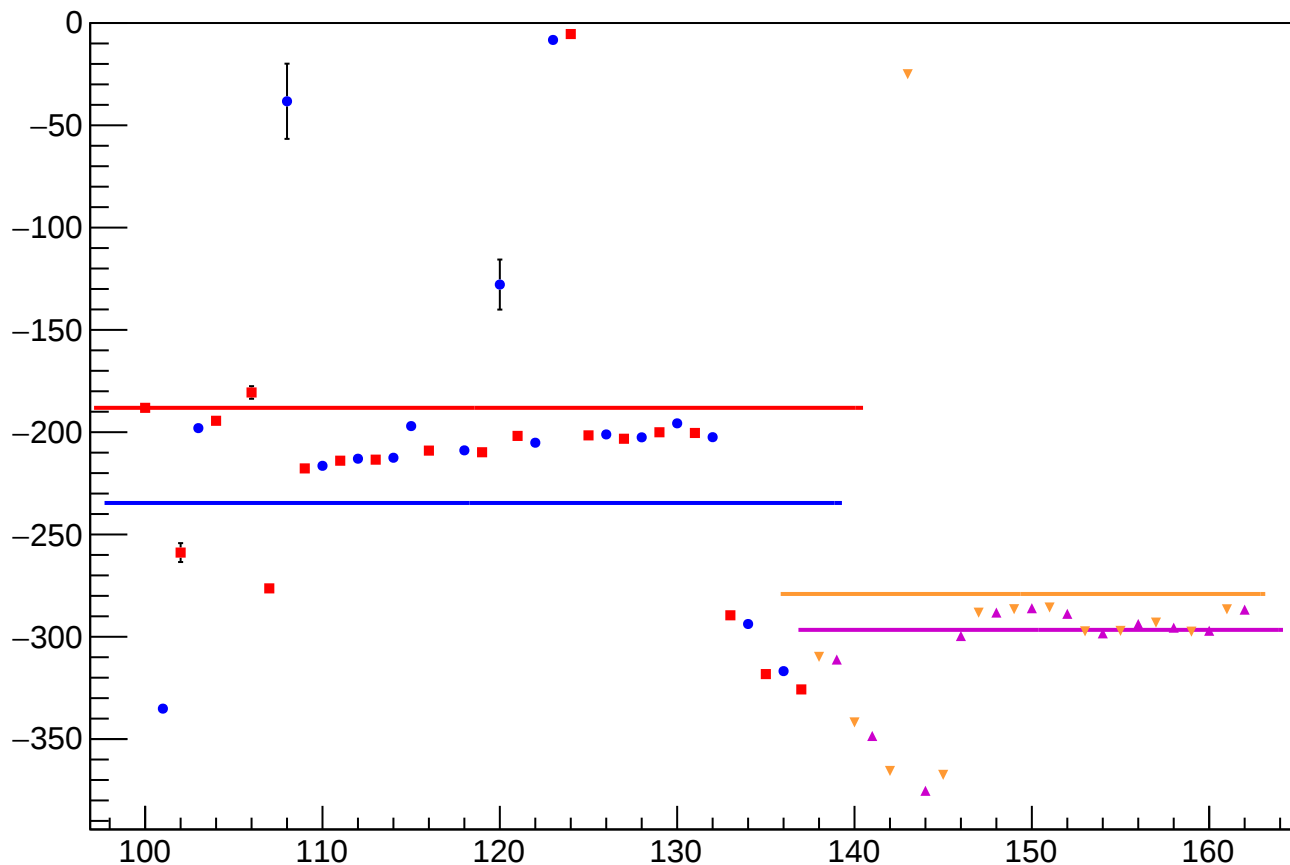
Right:  $224.125 \pm 0.000$   $\chi^2/\text{NDF}: 122237113759786$

In:  $583.096 \pm 0.000$   $\chi^2/\text{NDF}: 4325889.1/28$

Out:  $182.993 \pm 0.000$   $\chi^2/\text{NDF}: 17894597.6/31$

All:  $224.125 \pm 0.000$   $\chi^2/\text{NDF}: 122237113759$

# dit\_atl2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-234.595 \pm 0.057$   $\chi^2/\text{NDF}: 1034543.3/16$

Left Out:  $-279.073 \pm 0.027$   $\chi^2/\text{NDF}: 5589555.5/12$

Right Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 564190.5/18$

Left In:  $-296.621 \pm 0.028$   $\chi^2/\text{NDF}: 246760.3/11$

Left:  $-287.647 \pm 0.020$   $\chi^2/\text{NDF}: 6038655.7/24$

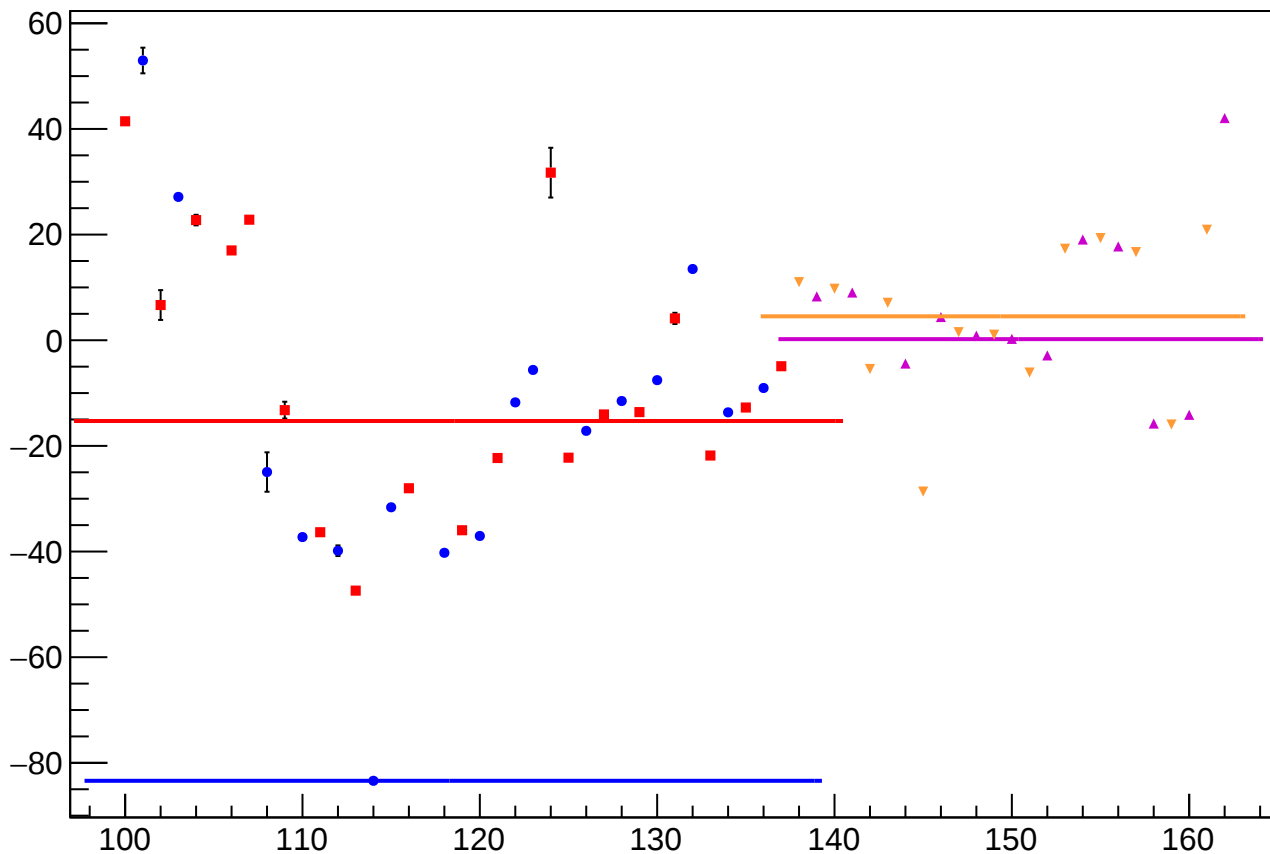
Right:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 2276022.3/35$

In:  $-284.463 \pm 0.025$   $\chi^2/\text{NDF}: 2250181.5/28$

Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 17284777.2/31$

All:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 34375535.6/6$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 1111851.8/16$

Left Out:  $4.527 \pm 0.032$   $\chi^2/\text{NDF}: 156122.8/12$

Right Out:  $-15.289 \pm 0.093$   $\chi^2/\text{NDF}: 45102.9/18$

Left In:  $0.208 \pm 0.023$   $\chi^2/\text{NDF}: 573841.9/11$

Left:  $1.683 \pm 0.019$   $\chi^2/\text{NDF}: 741872.2/24$

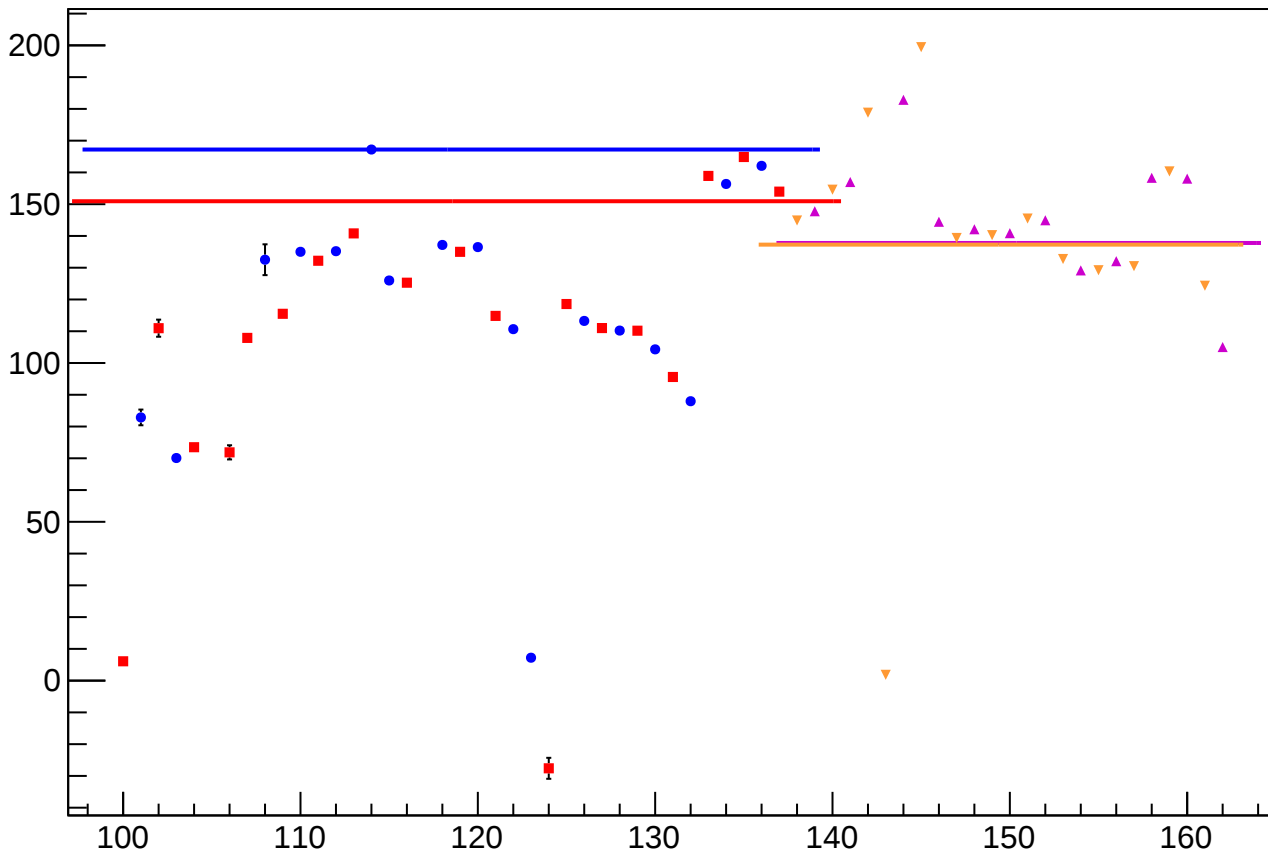
Right:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 1693721.3/35$

In:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 14747084.8/28$

Out:  $2.414 \pm 0.030$   $\chi^2/\text{NDF}: 241814.9/31$

All:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 22977974.3/60$

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 377544.7/16

Left Out: 137.266 $\pm$ 0.042  $\chi^2$ /NDF:391019.2/12

Right Out: 150.930 $\pm$ 0.030  $\chi^2$ /NDF: 254077.1/18

Left In: 137.790 $\pm$ 0.030  $\chi^2$ /NDF:348357.6/11

Left: 137.609 $\pm$ 0.025  $\chi^2$ /NDF: 739480.0/24

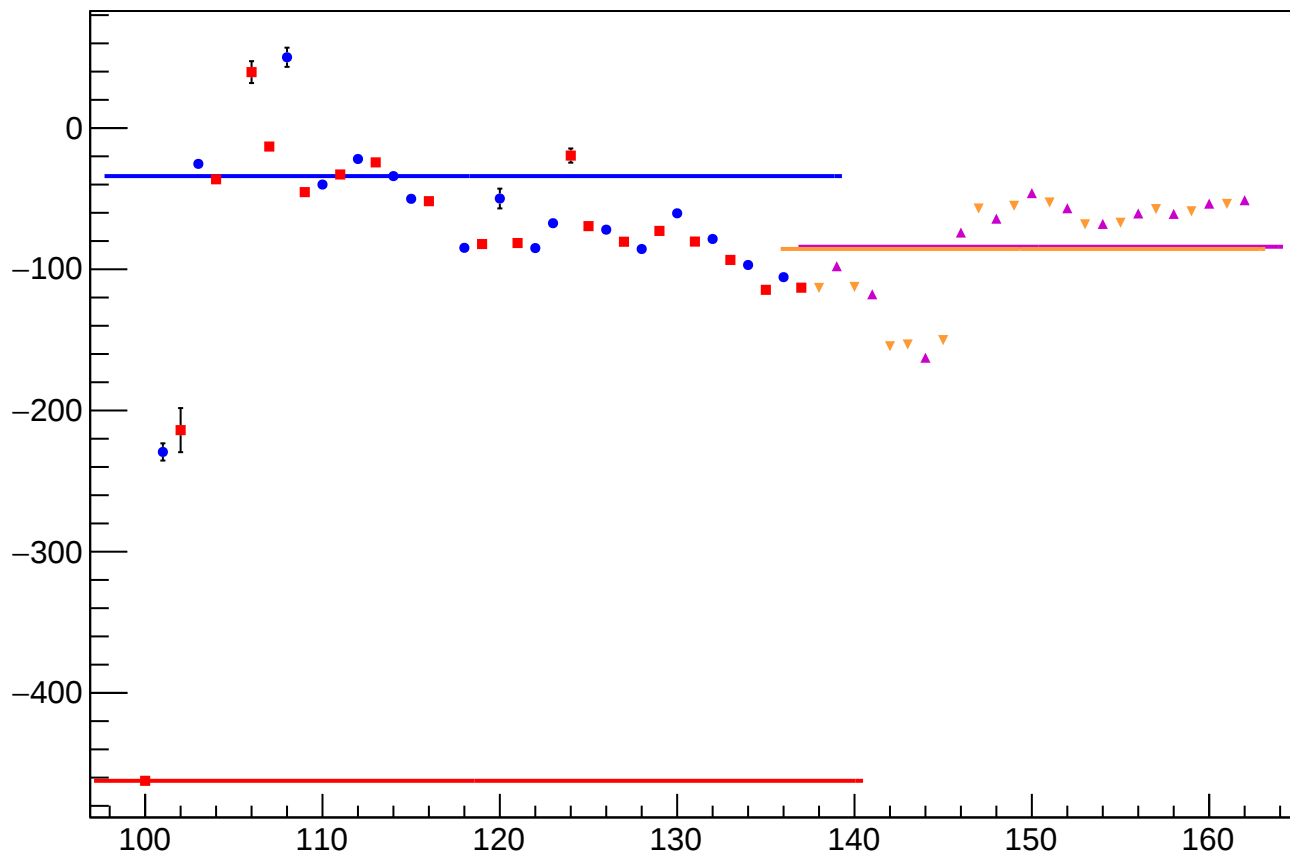
Right: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 927090.4/35

In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF:1667800.1/28

Out: 146.288 $\pm$ 0.024  $\chi^2$ /NDF:715824.8/31

All: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 3122683.7/60

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 103608.4/16$

Left Out:  $-85.579 \pm 0.151$   $\chi^2/\text{NDF}: 56811.7/12$

Right Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 4616114.1/18$

Left In:  $-84.024 \pm 0.154$   $\chi^2/\text{NDF}: 57205.3/11$

Left:  $-84.820 \pm 0.108$   $\chi^2/\text{NDF}: 114068.9/24$

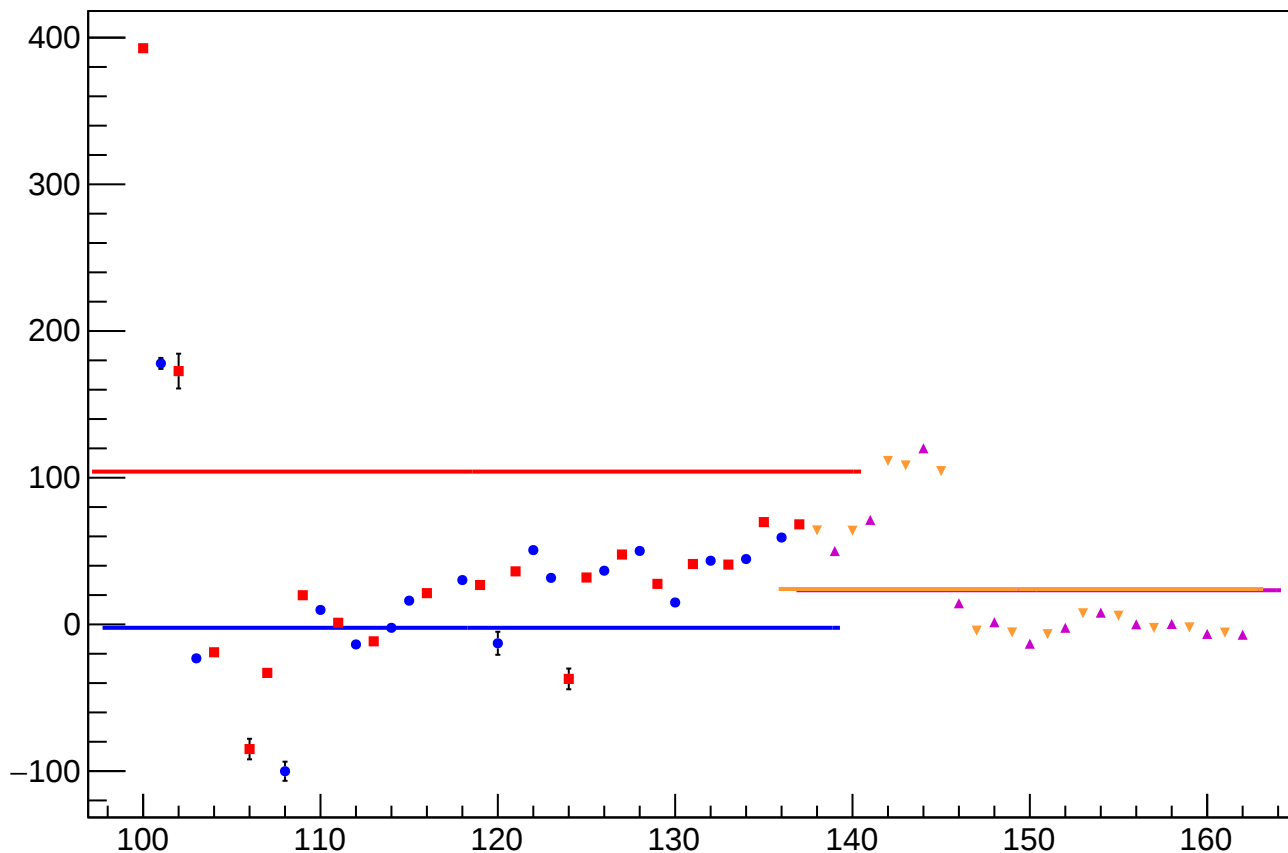
Right:  $-34.912 \pm 0.000$   $\chi^2/\text{NDF}: 849582565143584$

In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 265727.9/28$

Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 10916964.9/31$

All:  $-34.912 \pm 0.000$   $\chi^2/\text{NDF}: 849582565143$

# dit\_atr1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 72308.0/16

Left Out:  $24.131 \pm 0.131$   $\chi^2/\text{NDF}$ : 93973.0/12

Right Out:  $104.164 \pm 0.183$   $\chi^2/\text{NDF}$ : 779114.1/18

Left In:  $23.284 \pm 0.136$   $\chi^2/\text{NDF}$ : 86342.6/11

Left:  $23.725 \pm 0.094$   $\chi^2/\text{NDF}$ : 180335.8/24

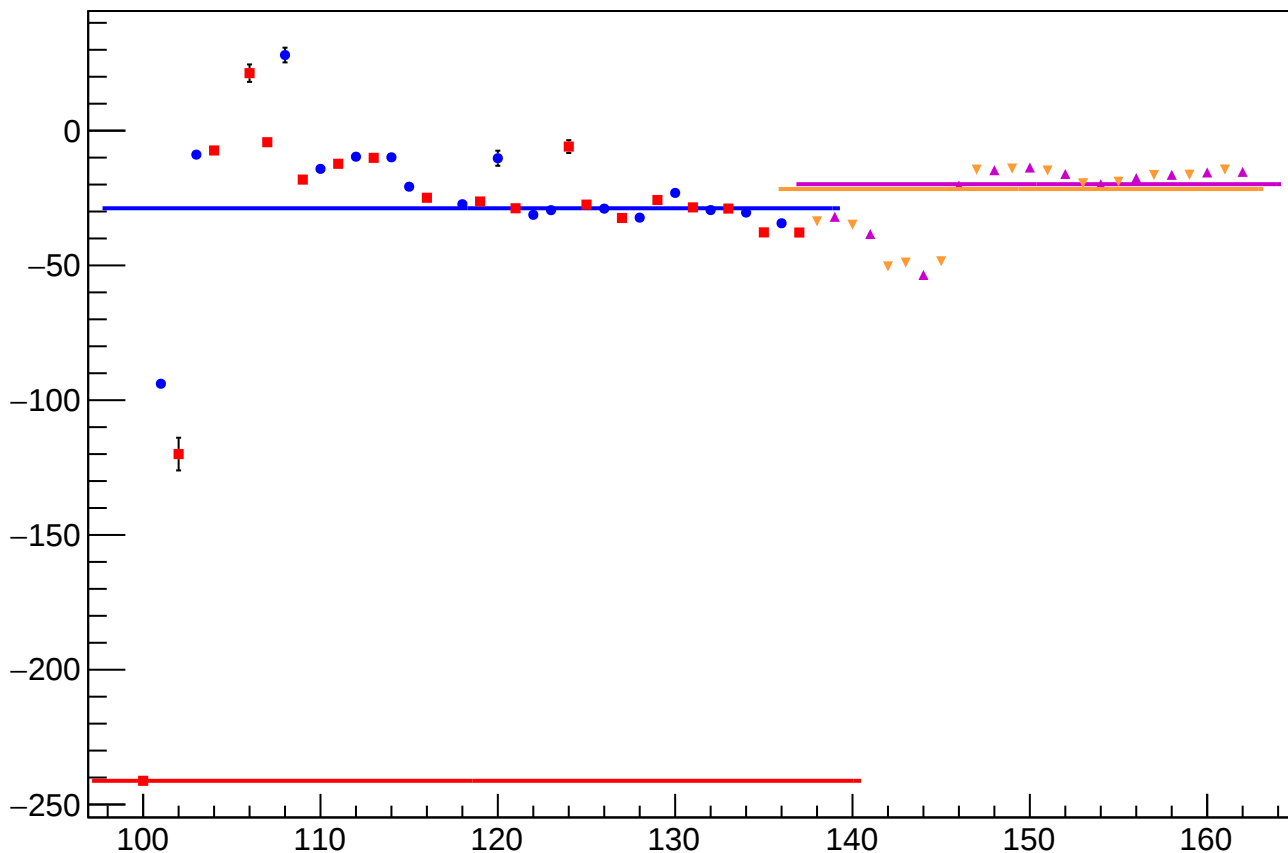
Right:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 1189122.1/35

In:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 194059.6/28

Out:  $51.067 \pm 0.106$   $\chi^2/\text{NDF}$ : 999654.8/31

All:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 1445916.6/60

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.799 \pm 0.035$   $\chi^2/\text{NDF}: 49372.5/16$

Left Out:  $-21.667 \pm 0.016$   $\chi^2/\text{NDF}: 358555.8/12$

Right Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 31730104.8/18$

Left In:  $-19.854 \pm 0.019$   $\chi^2/\text{NDF}: 192715.6/11$

Left:  $-20.918 \pm 0.012$   $\chi^2/\text{NDF}: 556848.2/24$

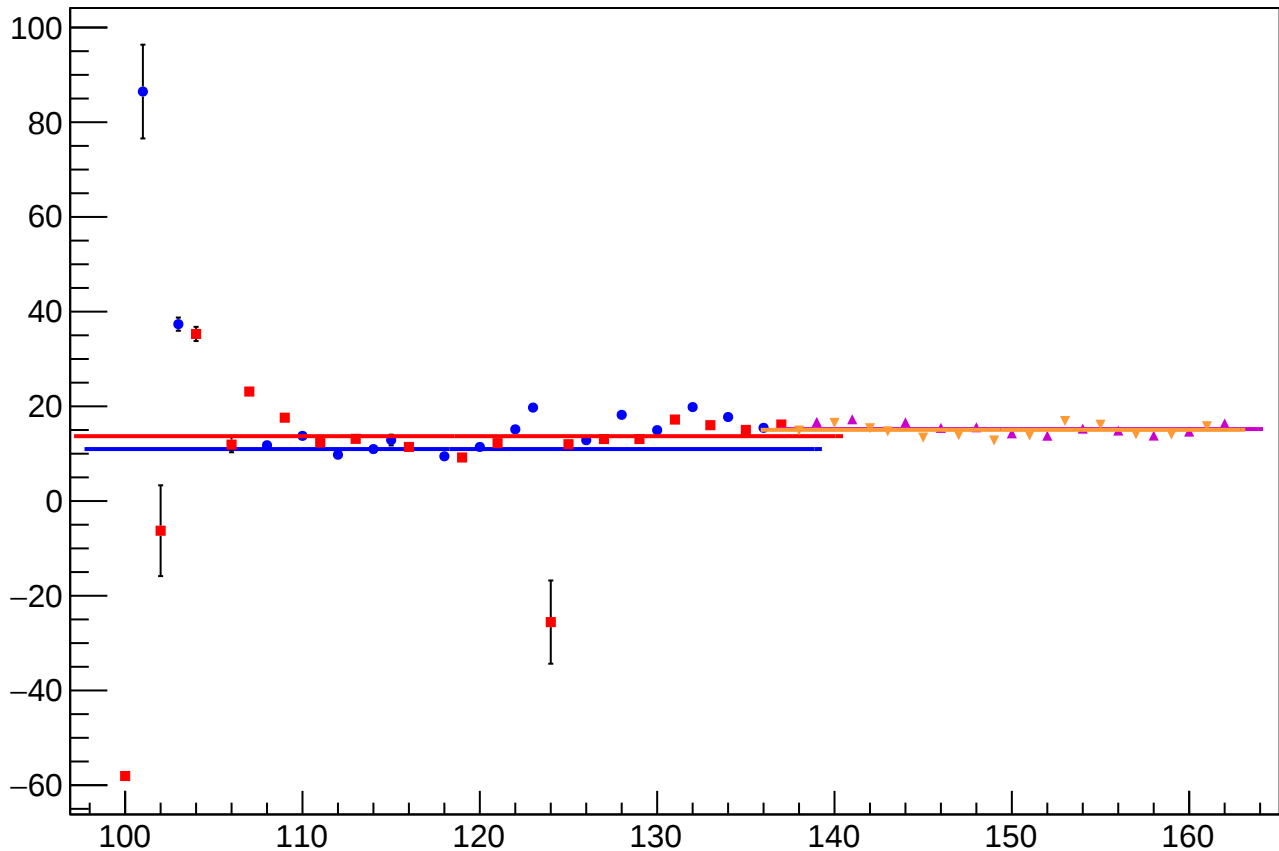
Right:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 67856010.6/35$

In:  $-21.793 \pm 0.016$   $\chi^2/\text{NDF}: 292202.9/28$

Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 230228927.0/31$

All:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 408100325.4/64$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 10.978+/-0.000  $\chi^2/\text{NDF}$ : 26383.3/16

Left Out: 15.039+/-0.018  $\chi^2/\text{NDF}$ : 4974.2/12

Right Out: 13.698+/-0.044  $\chi^2/\text{NDF}$ : 38261.7/18

Left In: 15.202+/-0.017  $\chi^2/\text{NDF}$ : 3956.2/11

Left: 15.126+/-0.013  $\chi^2/\text{NDF}$ : 8972.2/24

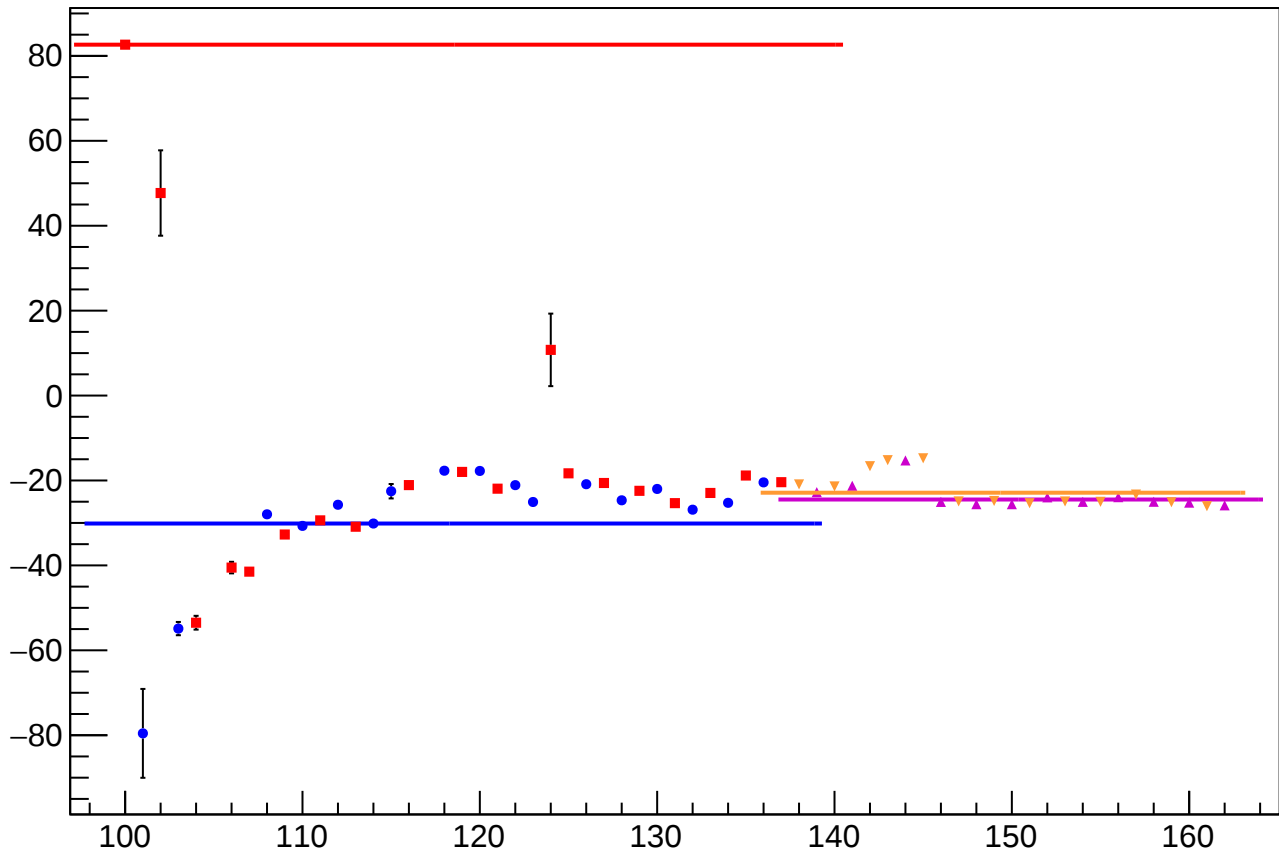
Right: 10.978+/-0.000  $\chi^2/\text{NDF}$ : 68468.7/35

In: 10.978+/-0.000  $\chi^2/\text{NDF}$ : 91075.2/28

Out: 14.840+/-0.017  $\chi^2/\text{NDF}$ : 44028.5/31

All: 10.978+/-0.000  $\chi^2/\text{NDF}$ : 186984.9/60

# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In: -30.139 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 75823.3/16

Left Out: -22.880 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 25943.5/12

Right Out: 82.645 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4126300.9/18

Left In: -24.484 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 7866.8/11

Left: -23.783 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 36640.2/24

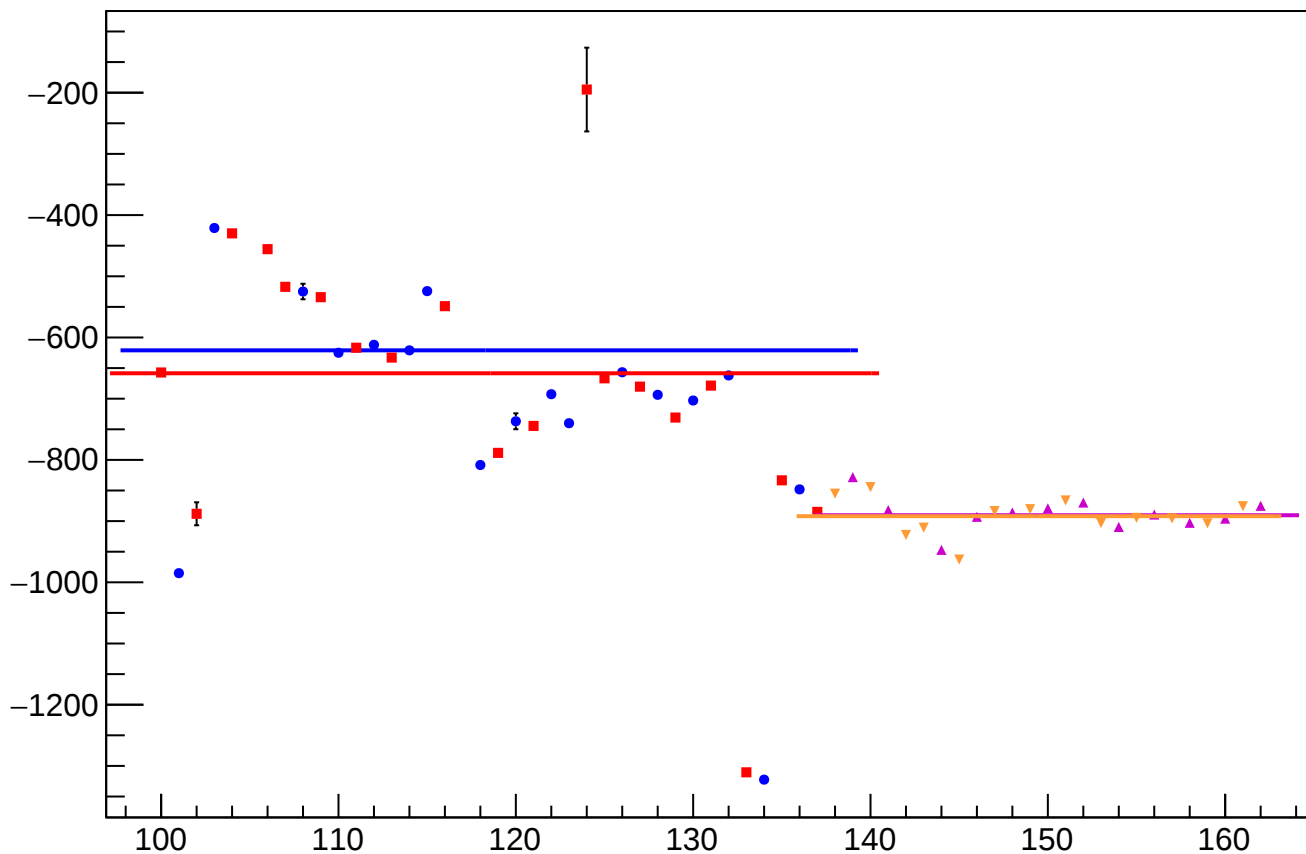
Right: -26.421 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 365466407976619

In: -30.139 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 164204.3/28

Out: 82.645 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 25887729.2/31

All: -26.421 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 365466407976

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In: -620.994+/-0.000  $\chi^2/\text{NDF}$ : 309597.8/16

Left Out: -891.969+/-0.178  $\chi^2/\text{NDF}$ :12711.6/12

Right Out: -658.472+/-0.211  $\chi^2/\text{NDF}$ : 385288.9/18

Left In: -890.416+/-0.152  $\chi^2/\text{NDF}$ :14035.2/11

Left: -891.070+/-0.115  $\chi^2/\text{NDF}$ : 26790.9/24

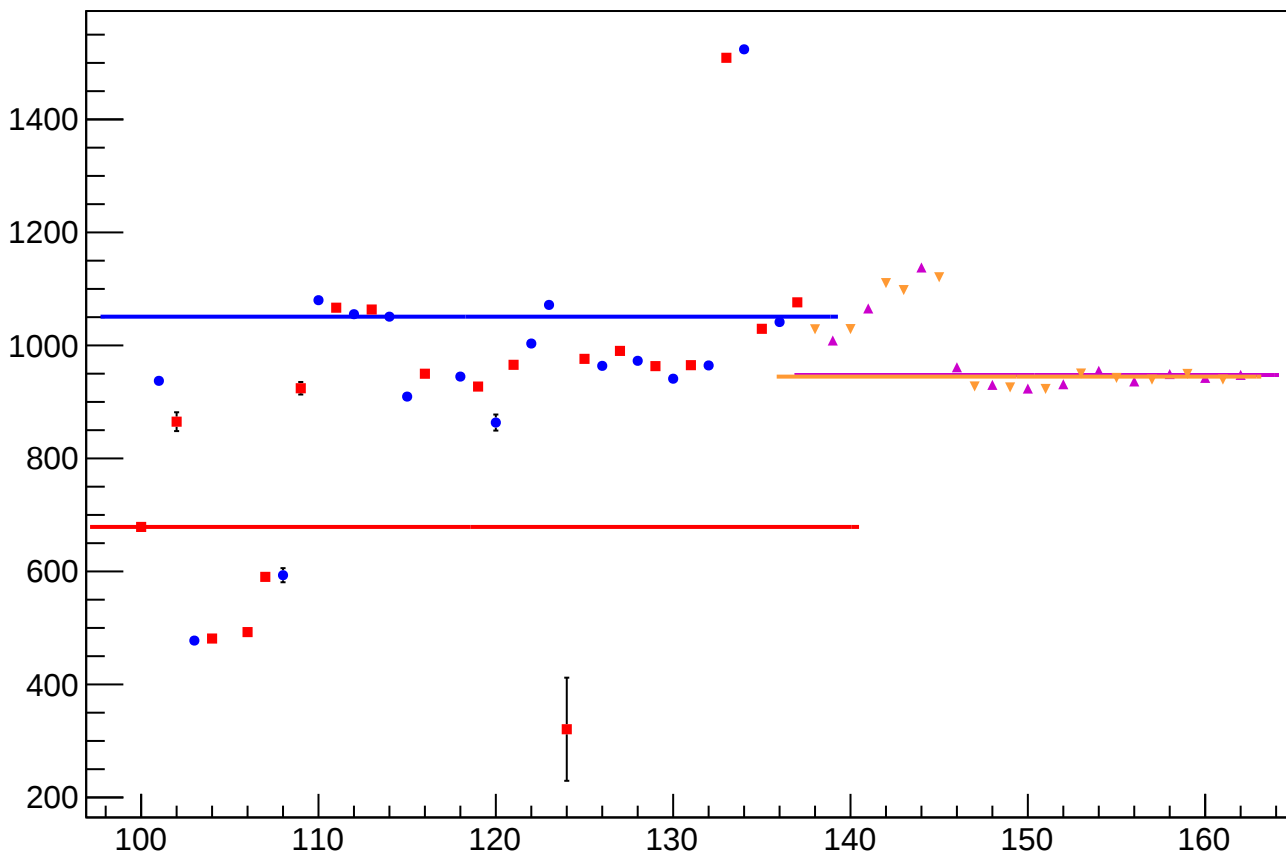
Right: -620.994+/-0.000  $\chi^2/\text{NDF}$ : 726578.9/35

In: -620.994+/-0.000  $\chi^2/\text{NDF}$ :3480214.0/28

Out: -794.769+/-0.136  $\chi^2/\text{NDF}$ :1116093.0/31

All: -620.994+/-0.000  $\chi^2/\text{NDF}$ : 6233137.5/60

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 1050.885+/-0.000  $\chi^2/\text{NDF}$ : 296535.3/16

Left Out: 944.786+/-0.142  $\chi^2/\text{NDF}$ : 67005.7/12

Right Out: 678.756+/-0.000  $\chi^2/\text{NDF}$ : 1421757.7/18

Left In: 947.647+/-0.125  $\chi^2/\text{NDF}$ : 73914.0/11

Left: 946.392+/-0.094  $\chi^2/\text{NDF}$ : 141148.2/24

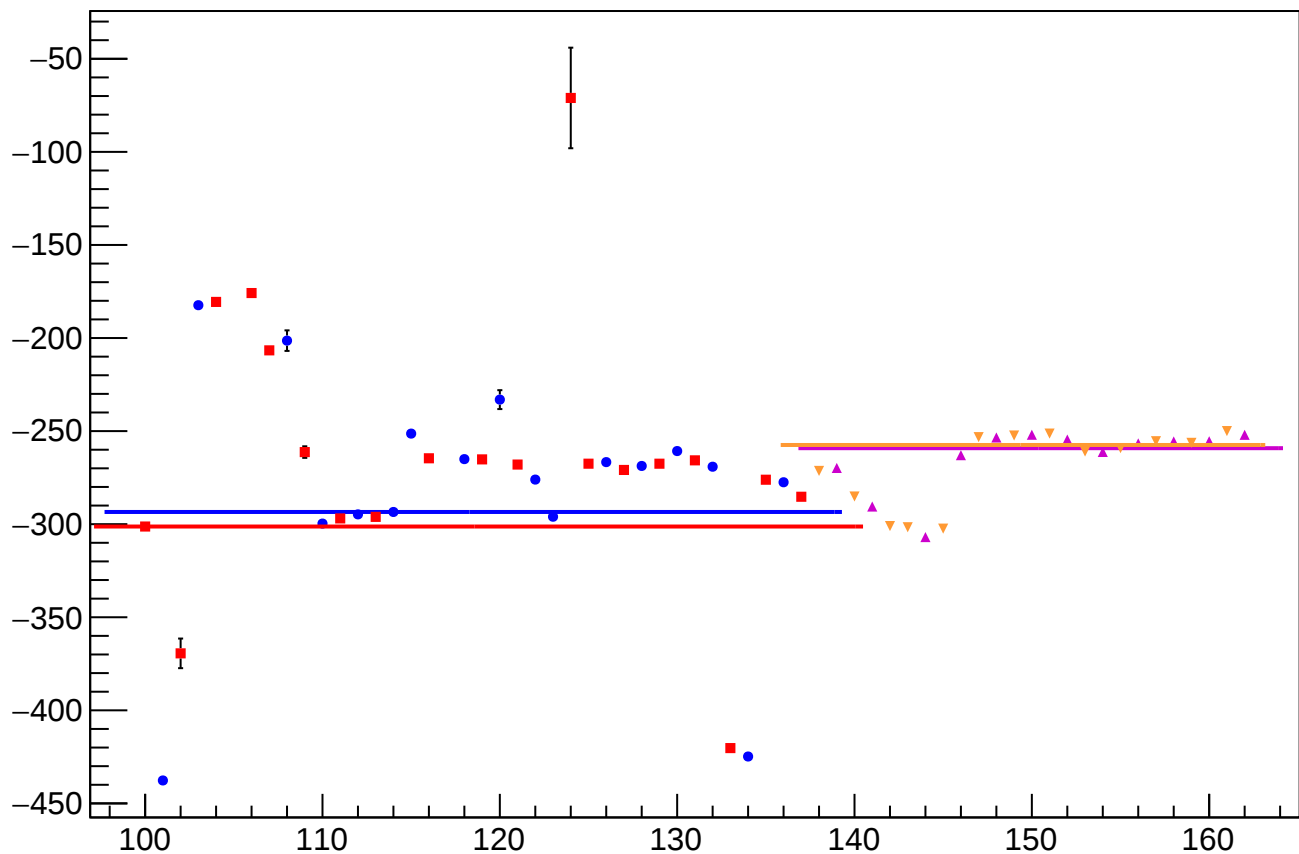
Right: 717.012+/-0.000  $\chi^2/\text{NDF}$ : 660888056800884

In: 1050.885+/-0.000  $\chi^2/\text{NDF}$ : 1048998.9/28

Out: 678.756+/-0.000  $\chi^2/\text{NDF}$ : 5007412.1/31

All: 717.012+/-0.000  $\chi^2/\text{NDF}$ : 660888056800884

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In: -293.440+/-0.000  $\chi^2/\text{NDF}$ : 806123.9/16

Left Out: -257.455+/-0.023  $\chi^2/\text{NDF}$ :162973.7/12

Right Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ : 709937.5/18

Left In: -259.177+/-0.023  $\chi^2/\text{NDF}$ :186421.6/11

Left: -258.322+/-0.016  $\chi^2/\text{NDF}$ : 352265.1/24

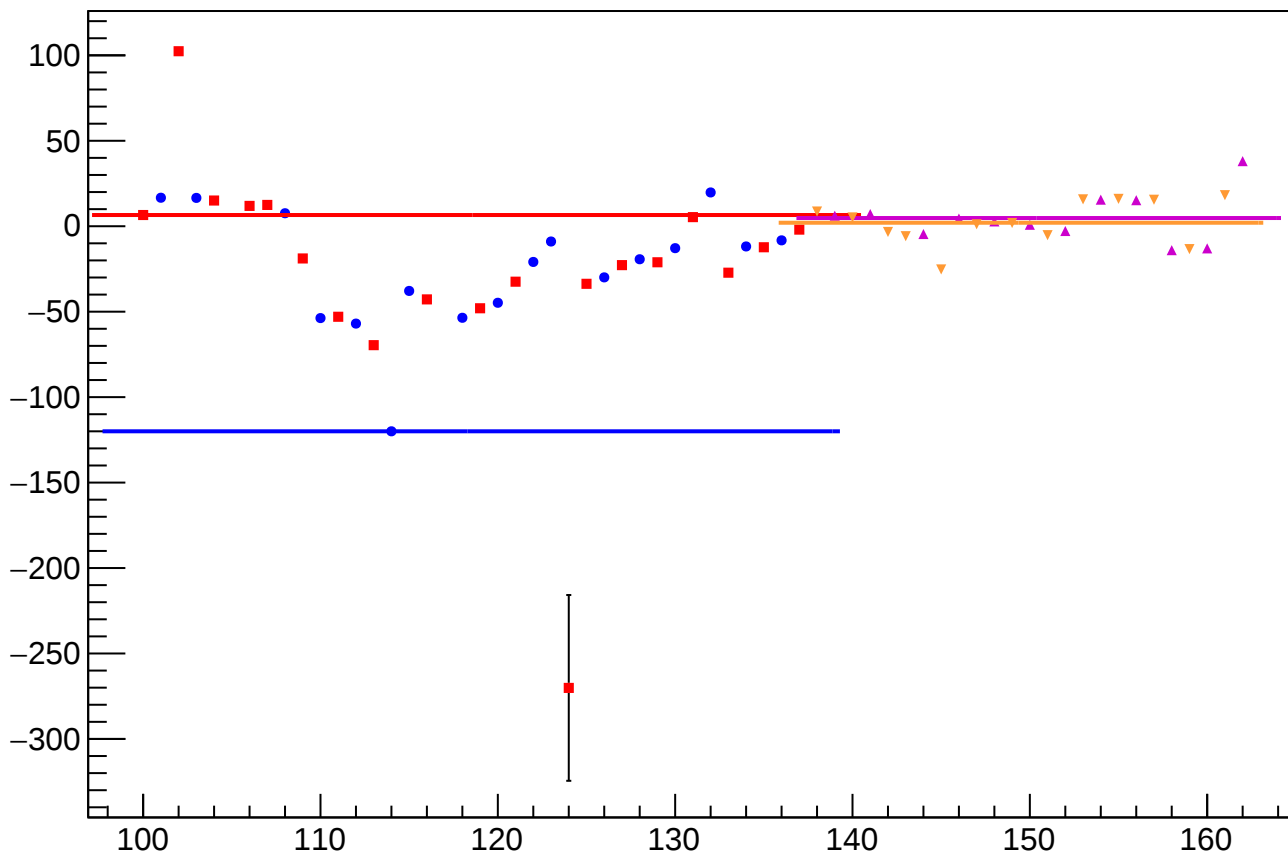
Right: -296.200+/-0.000  $\chi^2/\text{NDF}$ : 73444542243591

In: -293.440+/-0.000  $\chi^2/\text{NDF}$ :3281381.2/28

Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ :4563882.8/31

All: -296.200+/-0.000  $\chi^2/\text{NDF}$ : 73444542243

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-119.993 \pm 0.000$   $\chi^2/\text{NDF}: 1507310.0/16$

Left Out:  $2.048 \pm 0.029$   $\chi^2/\text{NDF}: 188947.0/12$

Right Out:  $6.562 \pm 0.000$   $\chi^2/\text{NDF}: 110723.7/18$

Left In:  $4.804 \pm 0.023$   $\chi^2/\text{NDF}: 389506.9/11$

Left:  $3.749 \pm 0.018$   $\chi^2/\text{NDF}: 584056.4/24$

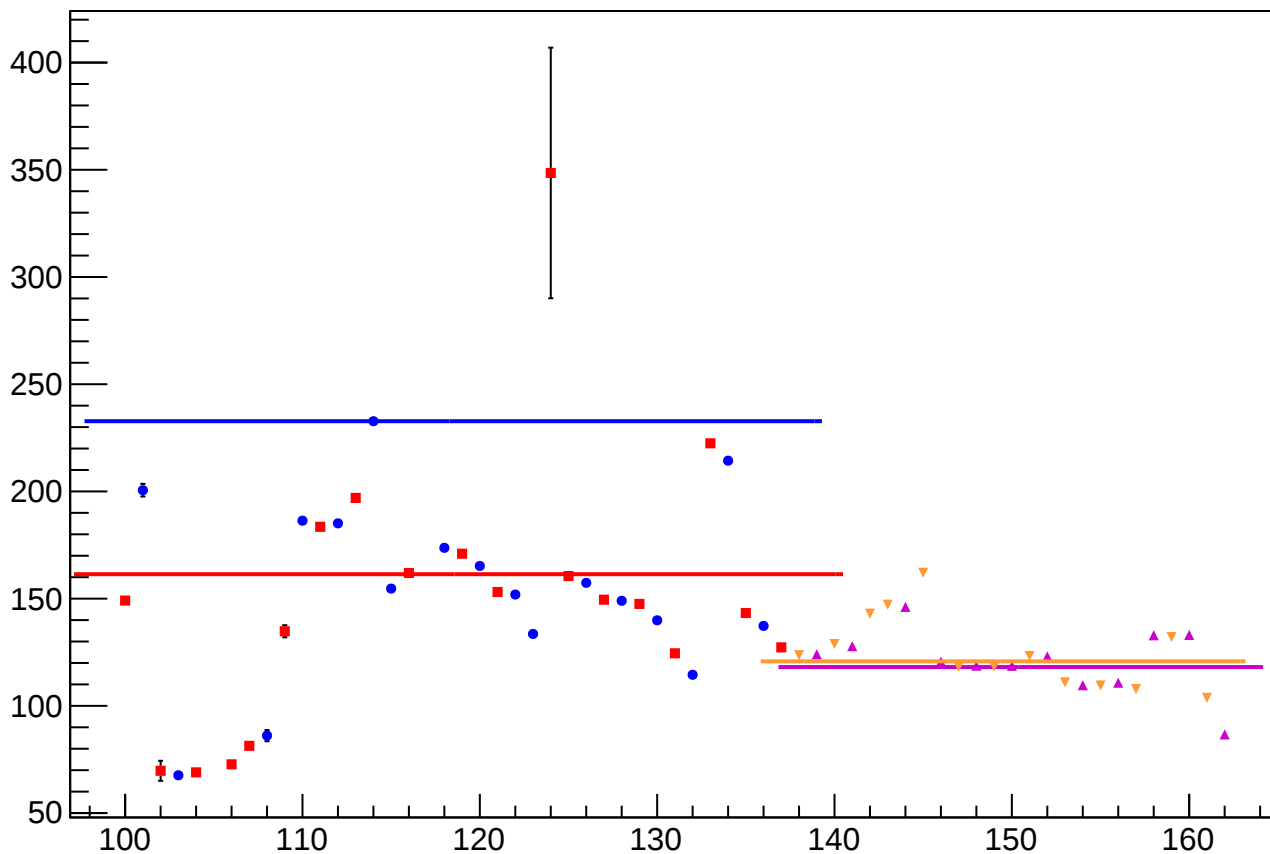
Right:  $6.462 \pm 0.000$   $\chi^2/\text{NDF}: 96855847891730169$

In:  $-119.993 \pm 0.000$   $\chi^2/\text{NDF}: 31909793.8/28$

Out:  $6.562 \pm 0.000$   $\chi^2/\text{NDF}: 324022.0/31$

All:  $6.462 \pm 0.000$   $\chi^2/\text{NDF}: 96855847891730$

# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



Right In: 232.747+/-0.000  $\chi^2/\text{NDF}$ : 885111.3/16

Left Out: 120.755+/-0.034  $\chi^2/\text{NDF}$ :101920.6/12

Right Out: 161.402+/-0.086  $\chi^2/\text{NDF}$ : 158469.5/18

Left In: 118.096+/-0.028  $\chi^2/\text{NDF}$ :255444.8/11

Left: 119.175+/-0.021  $\chi^2/\text{NDF}$ : 361055.3/24

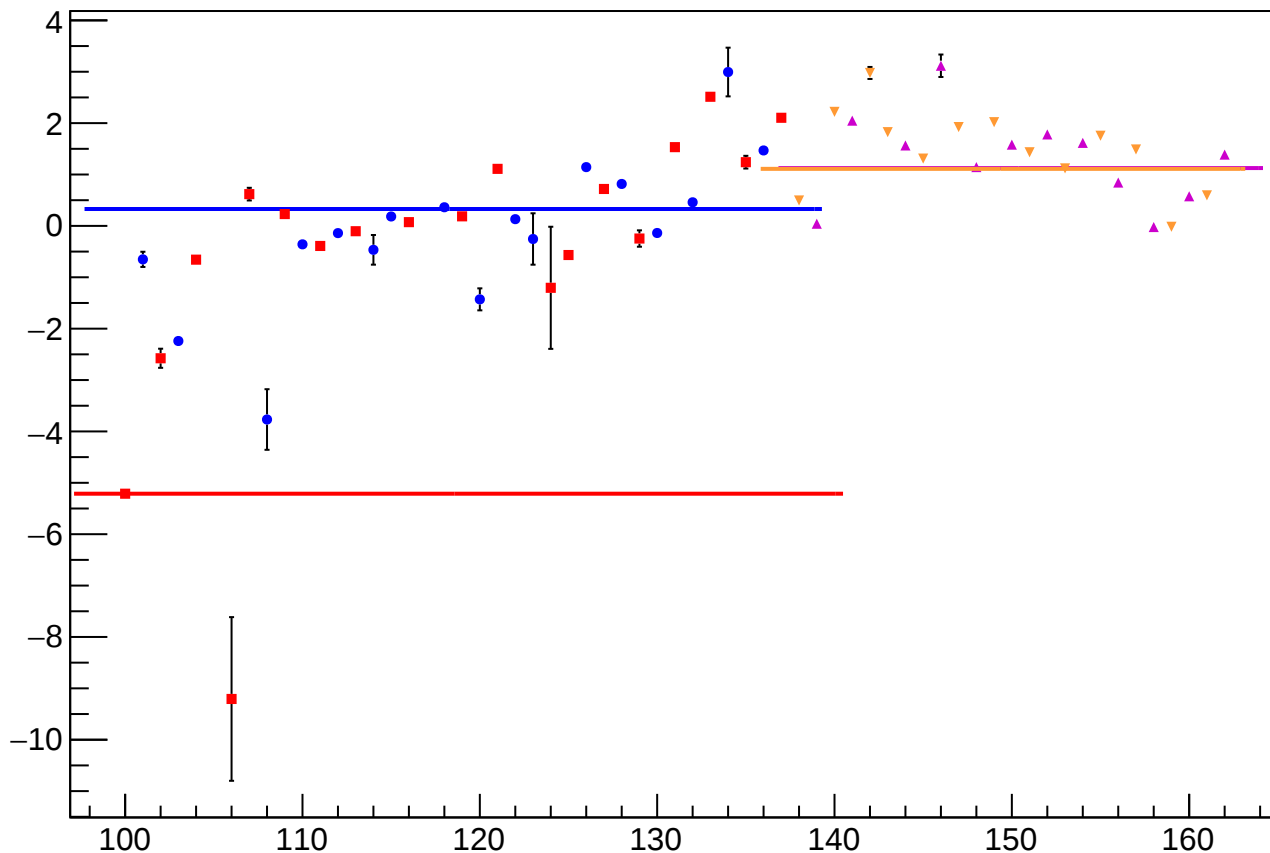
Right: 232.747+/-0.000  $\chi^2/\text{NDF}$ : 1727131.7/35

In: 232.747+/-0.000  $\chi^2/\text{NDF}$ :18037374.8/28

Out: 126.143+/-0.031  $\chi^2/\text{NDF}$ :452852.4/31

All: 232.747+/-0.000  $\chi^2/\text{NDF}$ : 30002632.2/60

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $0.329 \pm 0.013$   $\chi^2/\text{NDF}$ : 4100.2/16

Left Out:  $1.110 \pm 0.012$   $\chi^2/\text{NDF}$ : 4734.8/12

Right Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 500748.8/18

Left In:  $1.125 \pm 0.009$   $\chi^2/\text{NDF}$ : 6143.6/11

Left:  $1.120 \pm 0.007$   $\chi^2/\text{NDF}$ : 10879.4/24

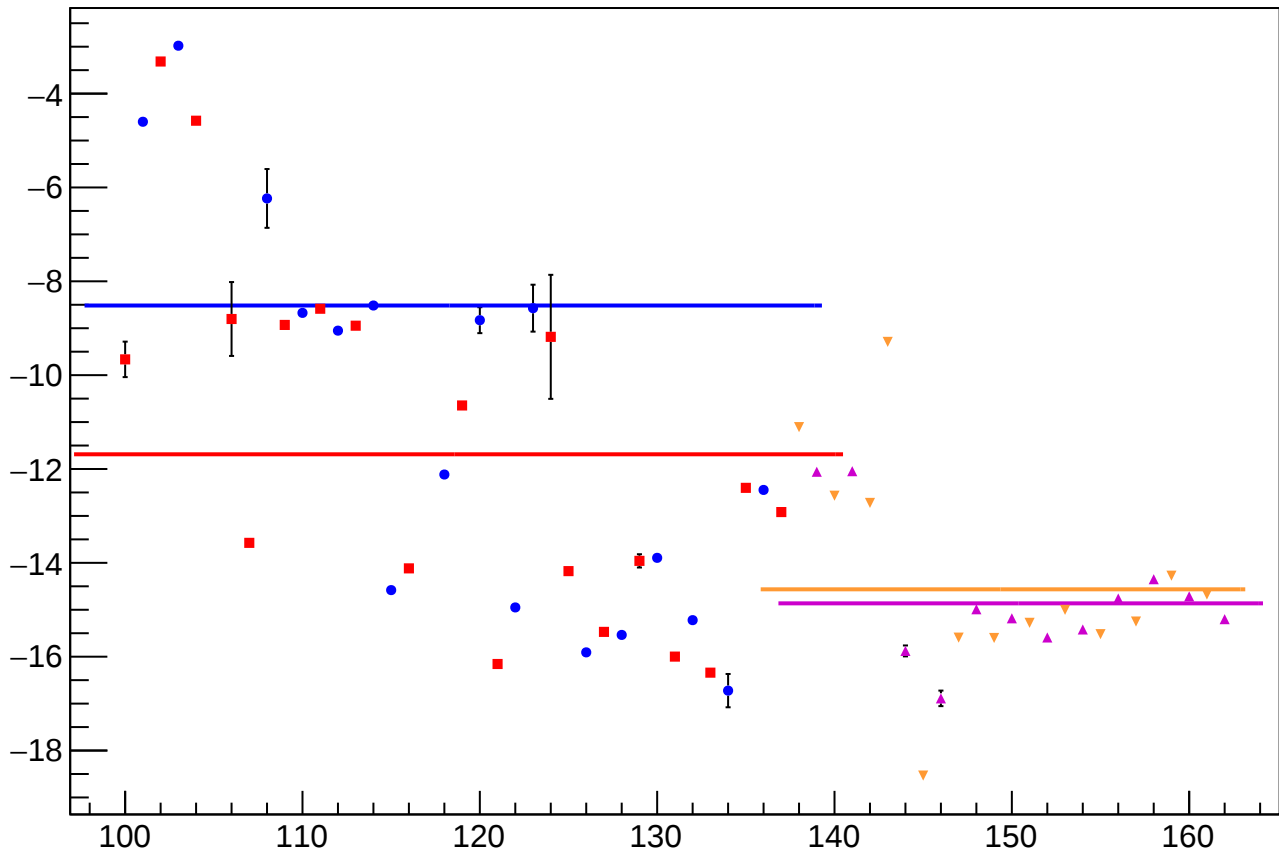
Right:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 690660.4/35

In:  $0.868 \pm 0.007$   $\chi^2/\text{NDF}$ : 12844.2/28

Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 772934.9/31

All:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 1478145.9/60

# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}: 245356.0/16$

Left Out:  $-14.564 \pm 0.010$   $\chi^2/\text{NDF}: 28769.5/12$

Right Out:  $-11.687 \pm 0.012$   $\chi^2/\text{NDF}: 108168.0/18$

Left In:  $-14.863 \pm 0.008$   $\chi^2/\text{NDF}: 11421.0/11$

Left:  $-14.749 \pm 0.006$   $\chi^2/\text{NDF}: 40736.3/24$

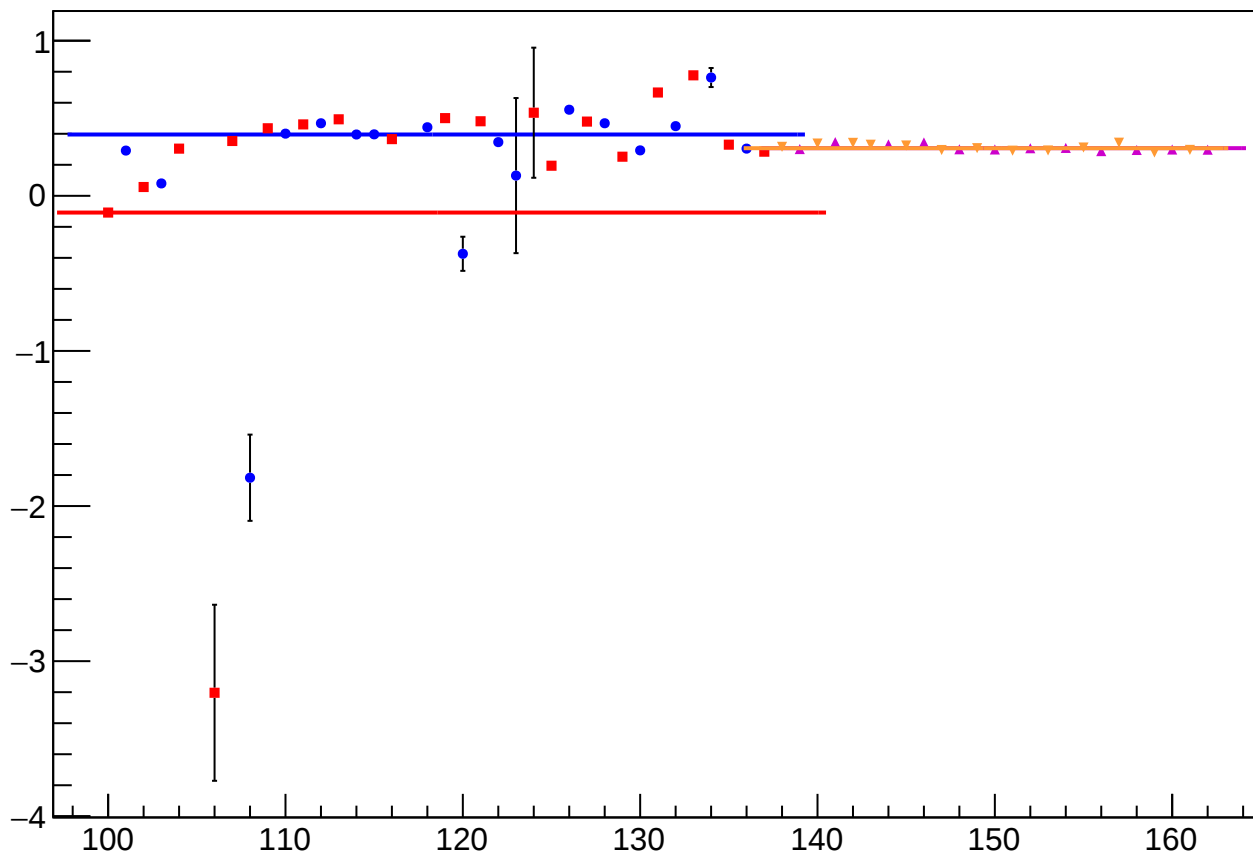
Right:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}: 428263.5/35$

In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}: 899237.2/28$

Out:  $-13.330 \pm 0.008$   $\chi^2/\text{NDF}: 172097.9/31$

All:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}: 1473063.0/60$

dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.395 \pm 0.000$   $\chi^2/\text{NDF}$ : 10311.3/16

Left Out:  $0.307 \pm 0.000$   $\chi^2/\text{NDF}$ : 3607.0/12

Right Out:  $-0.108 \pm 0.000$   $\chi^2/\text{NDF}$ : 128250.0/18

Left In:  $0.307 \pm 0.000$   $\chi^2/\text{NDF}$ : 2045.1/11

Left:  $0.307 \pm 0.000$   $\chi^2/\text{NDF}$ : 5652.4/24

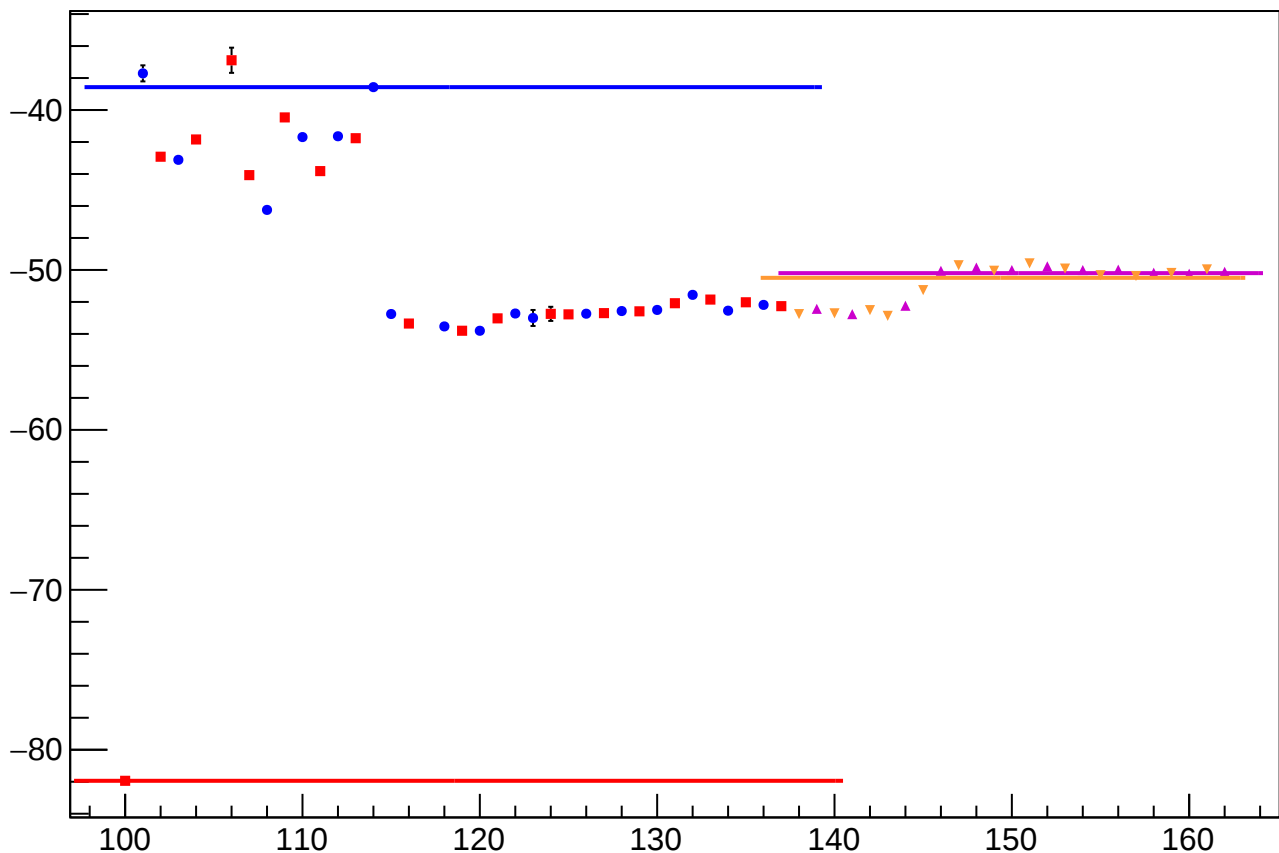
Right:  $-0.056 \pm 0.000$   $\chi^2/\text{NDF}$ : 8110213490538816

In:  $0.395 \pm 0.000$   $\chi^2/\text{NDF}$ : 93148.5/28

Out:  $-0.108 \pm 0.000$   $\chi^2/\text{NDF}$ : 1659037.6/31

All:  $-0.056 \pm 0.000$   $\chi^2/\text{NDF}$ : 8110213490538

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-38.570 \pm 0.000$   $\chi^2/\text{NDF}: 12311757.7/16$

Left Out:  $-50.493 \pm 0.002$   $\chi^2/\text{NDF}: 231206.7/12$

Right Out:  $-81.941 \pm 0.000$   $\chi^2/\text{NDF}: 120351577.0/18$

Left In:  $-50.199 \pm 0.002$   $\chi^2/\text{NDF}: 155251.2/11$

Left:  $-50.300 \pm 0.001$   $\chi^2/\text{NDF}: 398056.5/24$

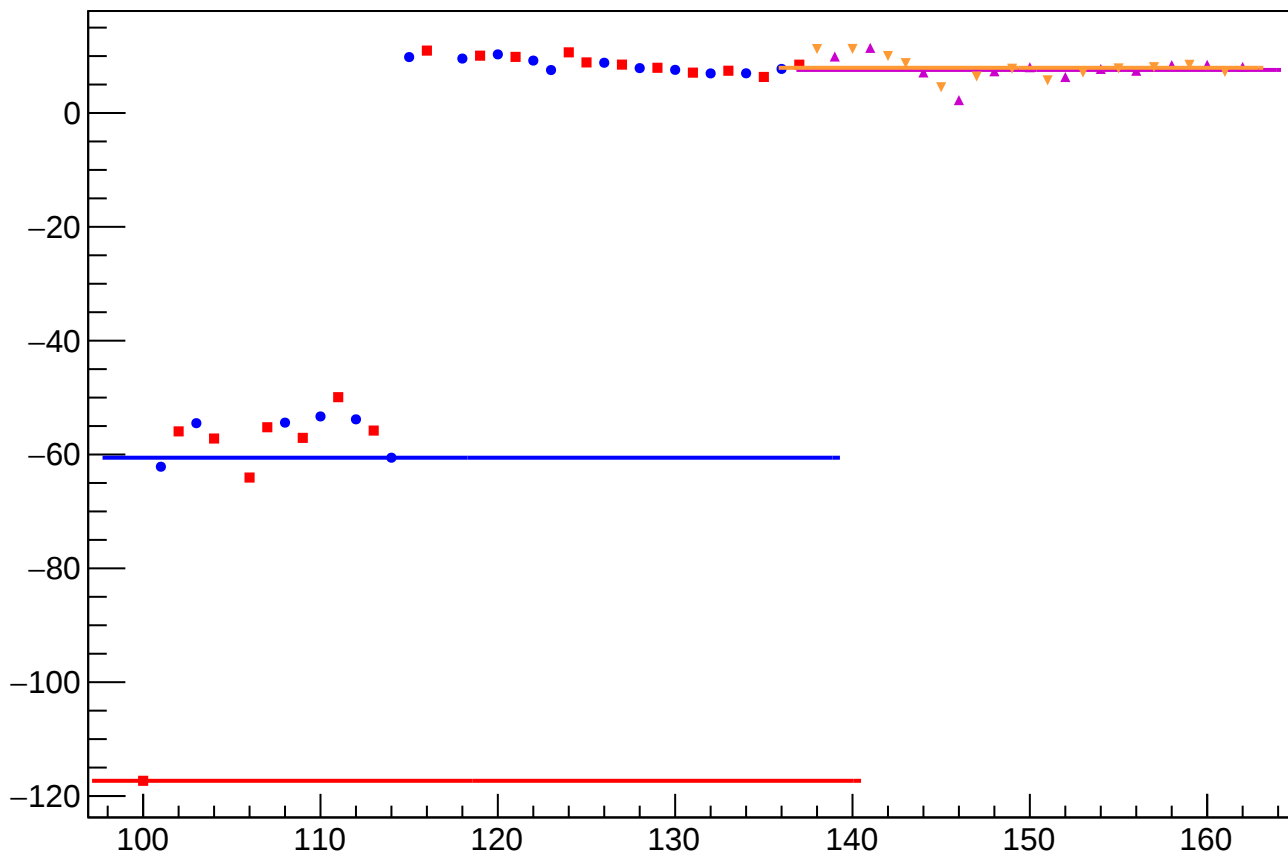
Right:  $-43.774 \pm 0.000$   $\chi^2/\text{NDF}: 491816286535349$

In:  $-38.570 \pm 0.000$   $\chi^2/\text{NDF}: 65481592.4/28$

Out:  $-81.941 \pm 0.000$   $\chi^2/\text{NDF}: 322043960.4/31$

All:  $-43.774 \pm 0.000$   $\chi^2/\text{NDF}: 491816286535$

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In: -60.561+/-0.000  $\chi^2/\text{NDF}$ : 179199478.6/16

Left Out: 7.941+/-0.005  $\chi^2/\text{NDF}$ : 73980.6/12

Right Out: -117.324+/-0.000  $\chi^2/\text{NDF}$ : 218537776.8/18

Left In: 7.566+/-0.004  $\chi^2/\text{NDF}$ : 99927.6/11

Left: 7.711+/-0.003  $\chi^2/\text{NDF}$ : 177842.7/24

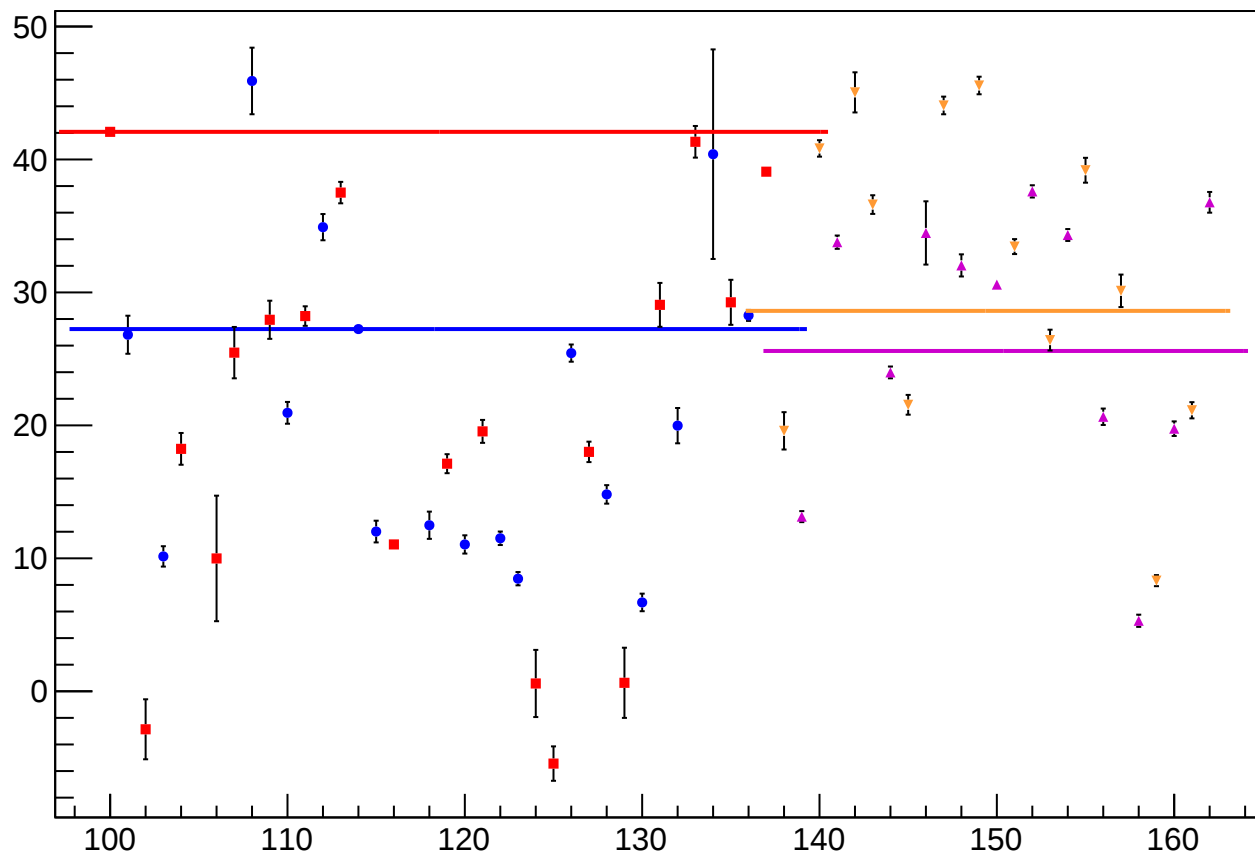
Right: -91.839+/-0.000  $\chi^2/\text{NDF}$ : 429805156128459

In: -60.561+/-0.000  $\chi^2/\text{NDF}$ : 516189129.4/28

Out: -117.324+/-0.000  $\chi^2/\text{NDF}$ : 932140548.1/31

All: -91.839+/-0.000  $\chi^2/\text{NDF}$ : 429805156128

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF: 5492.1/16

Left Out: 28.612 $\pm$ 0.193  $\chi^2$ /NDF: 4693.7/12

Right Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF: 38215.8/18

Left In: 25.597 $\pm$ 0.144  $\chi^2$ /NDF: 4892.6/11

Left: 26.681 $\pm$ 0.115  $\chi^2$ /NDF: 9743.4/24

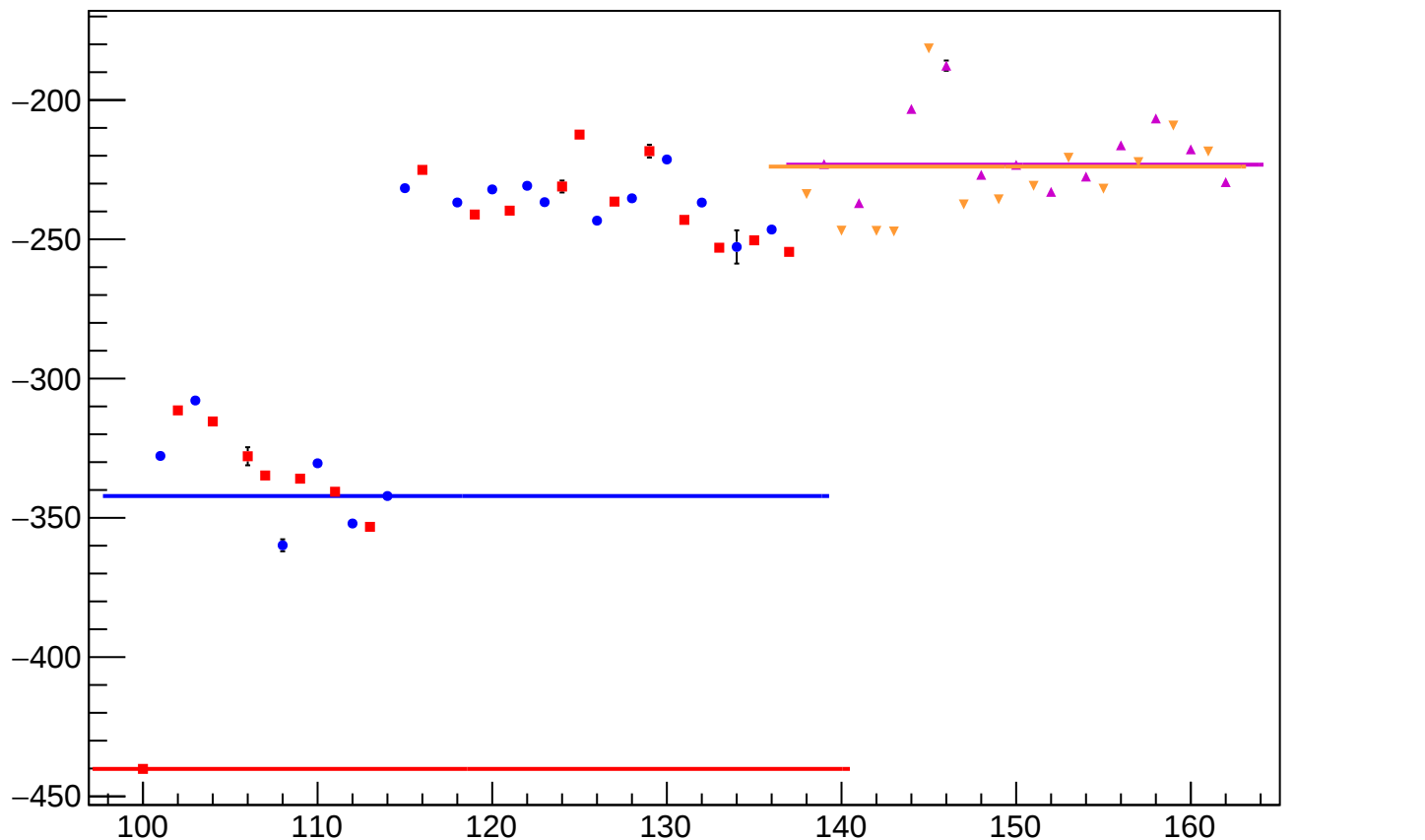
Right: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606931

In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF: 10515.1/28

Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF: 47801.2/31

All: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606931

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-342.165 \pm 0.000$   $\chi^2/\text{NDF}: 307562.3/16$

Left Out:  $-223.897 \pm 0.156$   $\chi^2/\text{NDF}: 13457.1/12$

Right Out:  $-440.136 \pm 0.000$   $\chi^2/\text{NDF}: 6836158.8/18$

Left In:  $-223.197 \pm 0.124$   $\chi^2/\text{NDF}: 4783.3/11$

Left:  $-223.468 \pm 0.097$   $\chi^2/\text{NDF}: 18252.8/24$

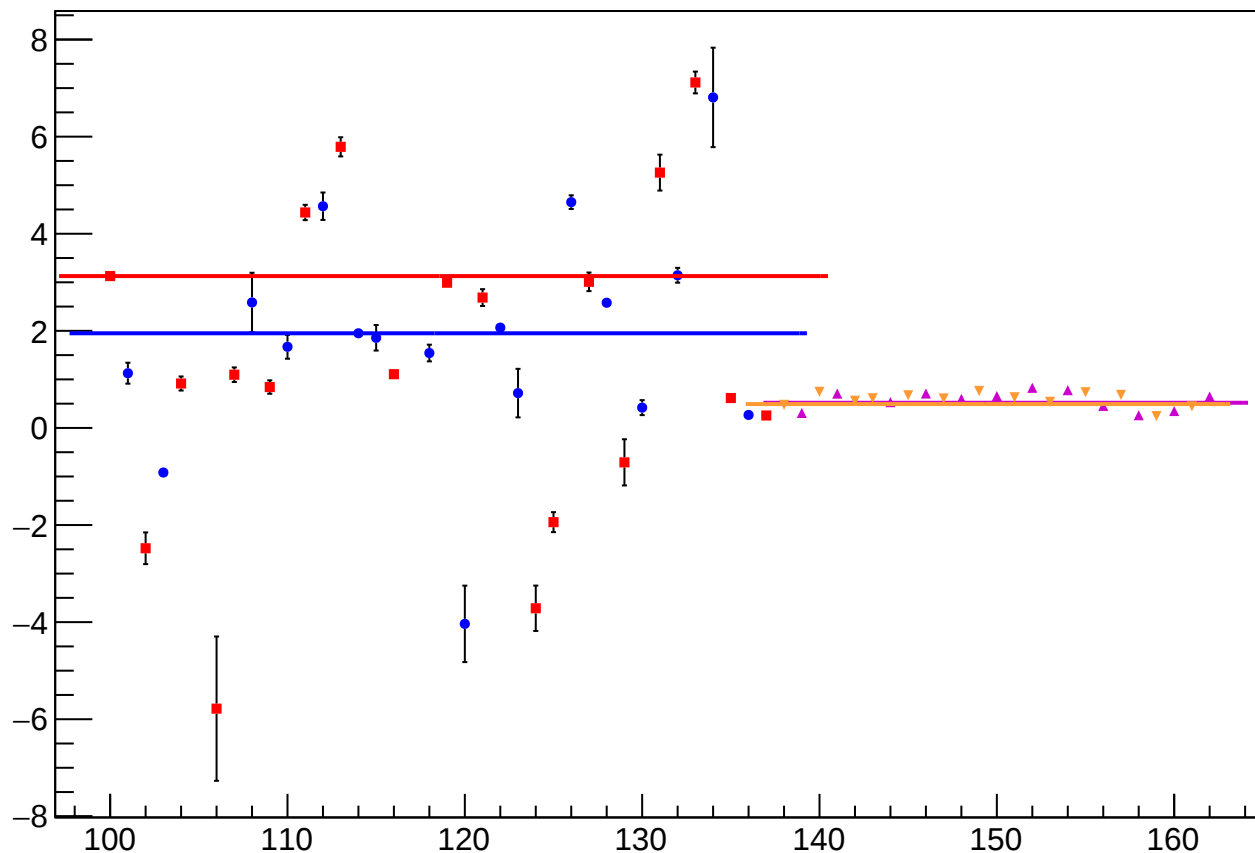
Right:  $-376.743 \pm 0.000$   $\chi^2/\text{NDF}: 11532667116612$

In:  $-342.165 \pm 0.000$   $\chi^2/\text{NDF}: 1236282.6/28$

Out:  $-440.136 \pm 0.000$   $\chi^2/\text{NDF}: 8777923.0/31$

All:  $-376.743 \pm 0.000$   $\chi^2/\text{NDF}: 11532667116$

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $1.950 \pm 0.000$   $\chi^2/\text{NDF}$ : 64103.9/16

Left Out:  $0.492 \pm 0.002$   $\chi^2/\text{NDF}$ : 7415.7/12

Right Out:  $3.128 \pm 0.000$   $\chi^2/\text{NDF}$ : 24965.4/18

Left In:  $0.519 \pm 0.002$   $\chi^2/\text{NDF}$ : 12334.9/11

Left:  $0.508 \pm 0.002$   $\chi^2/\text{NDF}$ : 19825.1/24

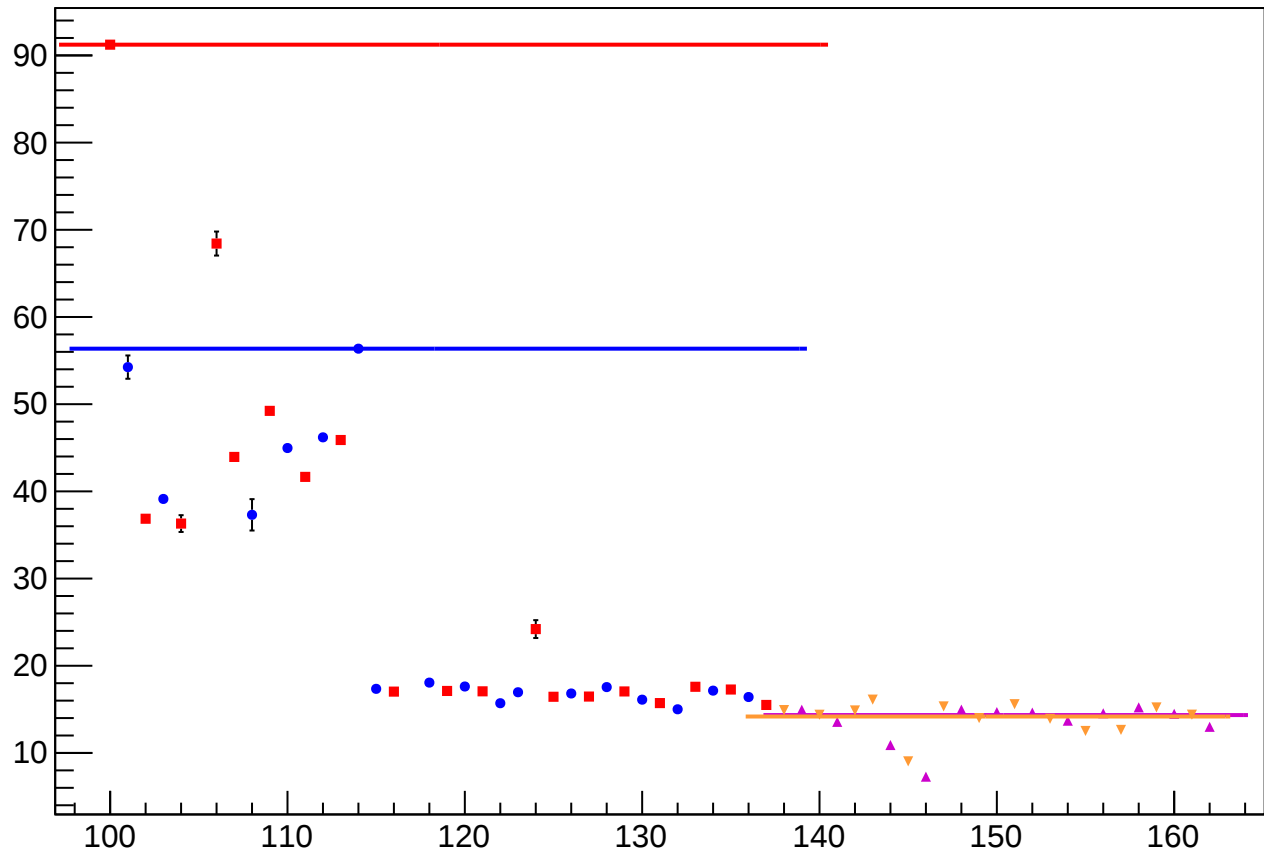
Right:  $2.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 27324586822992261

In:  $1.950 \pm 0.000$   $\chi^2/\text{NDF}$ : 587014.3/28

Out:  $3.128 \pm 0.000$   $\chi^2/\text{NDF}$ : 1234413.2/31

All:  $2.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 27324586822992

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In: 56.366+/-0.000  $\chi^2/\text{NDF}$ : 8017656.1/16

Left Out: 14.179+/-0.010  $\chi^2/\text{NDF}$ : 49149.8/12

Right Out: 91.232+/-0.000  $\chi^2/\text{NDF}$ : 17922403.4/18

Left In: 14.344+/-0.010  $\chi^2/\text{NDF}$ : 8571.7/11

Left: 14.262+/-0.007  $\chi^2/\text{NDF}$ : 57864.9/24

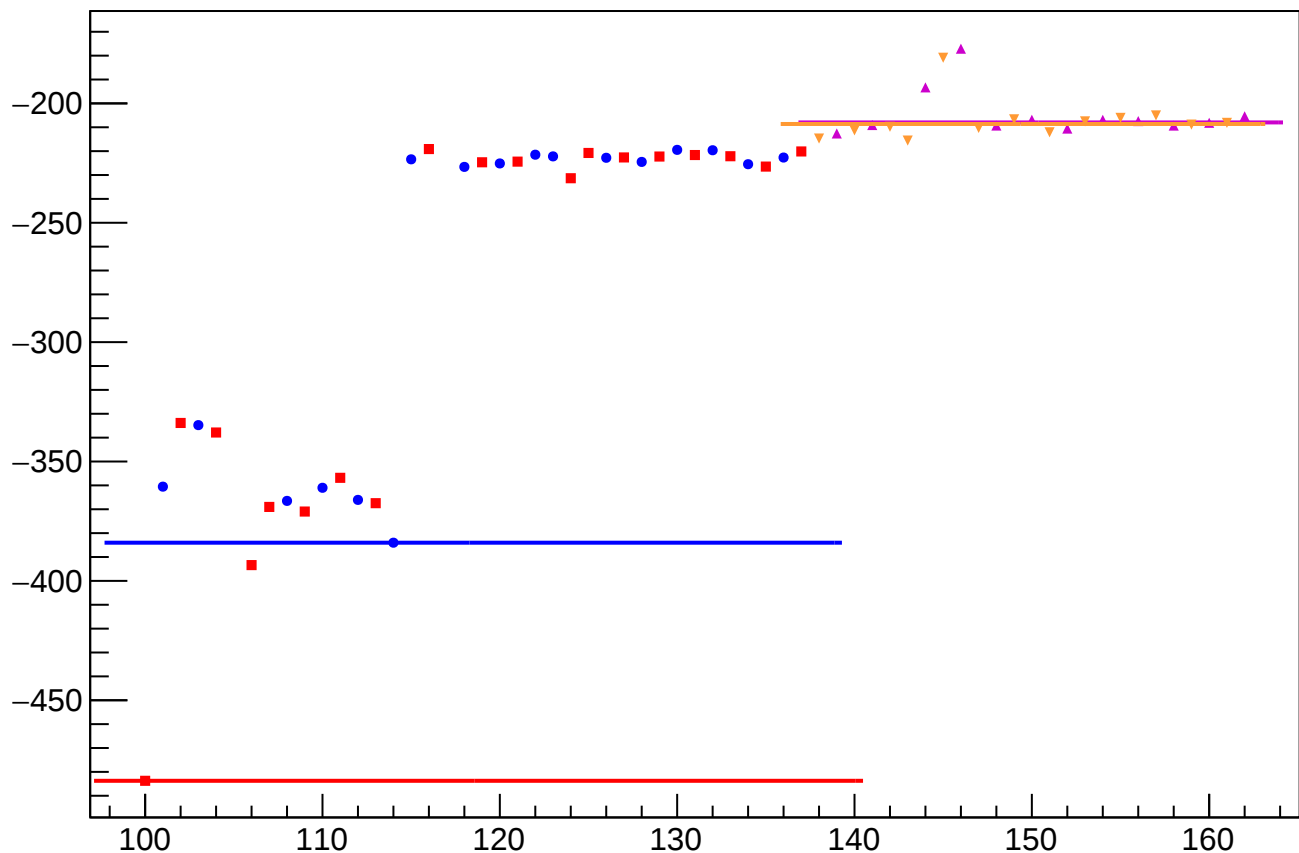
Right: 60.550+/-0.000  $\chi^2/\text{NDF}$ : 3178336126771154

In: 56.366+/-0.000  $\chi^2/\text{NDF}$ : 26771652.1/28

Out: 91.232+/-0.000  $\chi^2/\text{NDF}$ : 79554251.6/31

All: 60.550+/-0.000  $\chi^2/\text{NDF}$ : 3178336126771

# dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-384.003 \pm 0.000$   $\chi^2/\text{NDF}: 17098507.2/16$

Left Out:  $-208.621 \pm 0.020$   $\chi^2/\text{NDF}: 73907.5/12$

Right Out:  $-483.735 \pm 0.000$   $\chi^2/\text{NDF}: 27646775.0/18$

Left In:  $-207.968 \pm 0.018$   $\chi^2/\text{NDF}: 15785.1/11$

Left:  $-208.269 \pm 0.013$   $\chi^2/\text{NDF}: 90279.8/24$

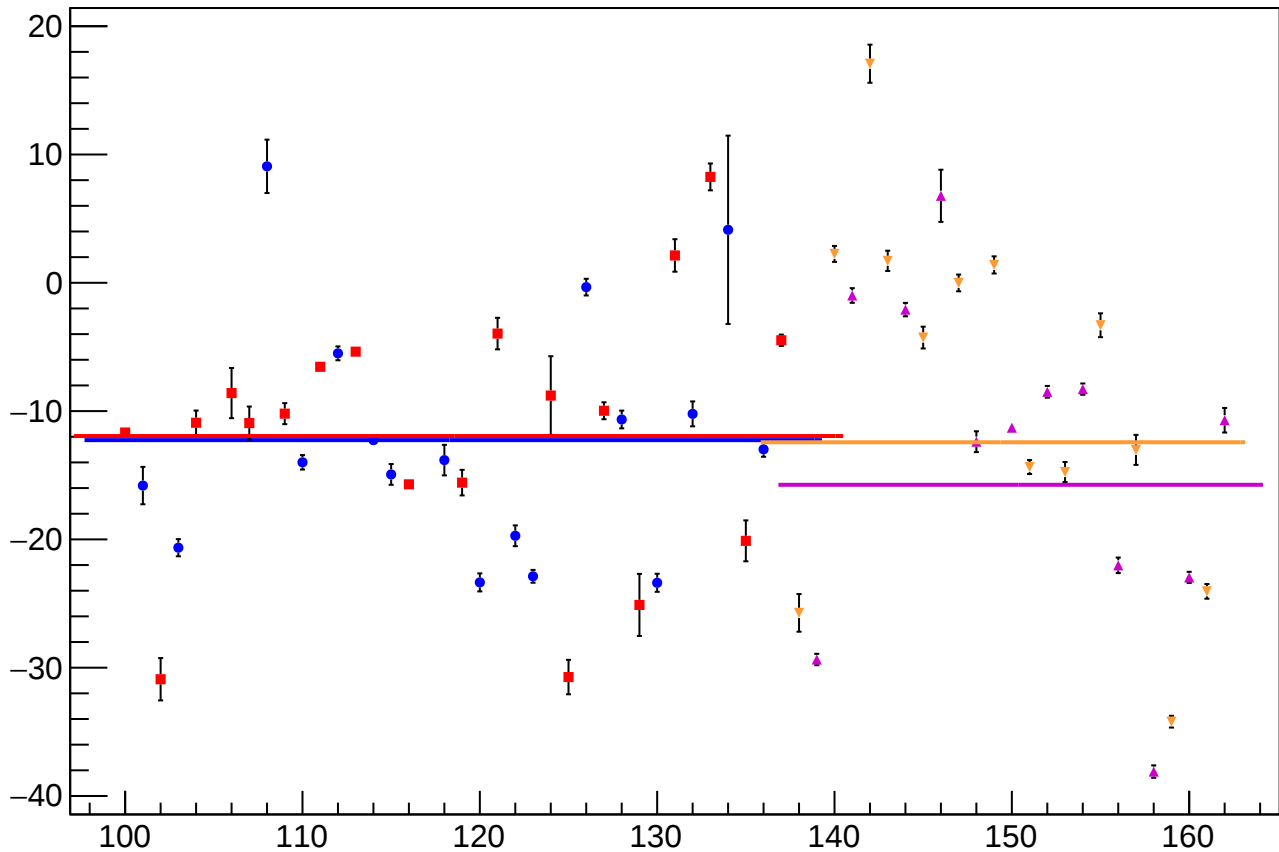
Right:  $-452.390 \pm 0.000$   $\chi^2/\text{NDF}: 58047820362383$

In:  $-384.003 \pm 0.000$   $\chi^2/\text{NDF}: 109876024.9/28$

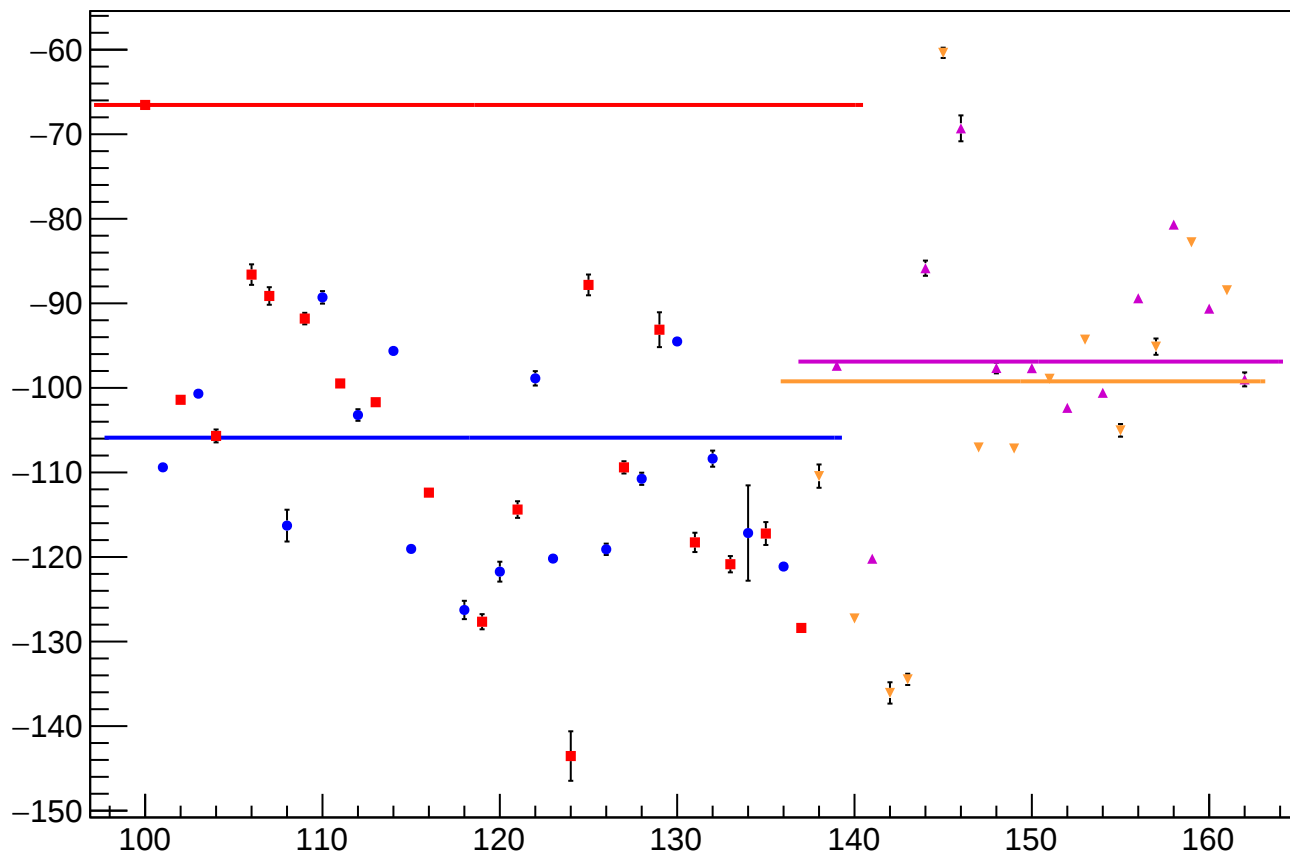
Out:  $-483.735 \pm 0.000$   $\chi^2/\text{NDF}: 221238071.7/31$

All:  $-452.390 \pm 0.000$   $\chi^2/\text{NDF}: 58047820362$

# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-105.886 \pm 0.108$   $\chi^2/\text{NDF}$ : 6351.6/16

Left Out:  $-99.224 \pm 0.157$   $\chi^2/\text{NDF}$ : 14136.4/12

Right Out:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 794335.4/18

Left In:  $-96.889 \pm 0.125$   $\chi^2/\text{NDF}$ : 5254.2/11

Left:  $-97.790 \pm 0.098$   $\chi^2/\text{NDF}$ : 19526.4/24

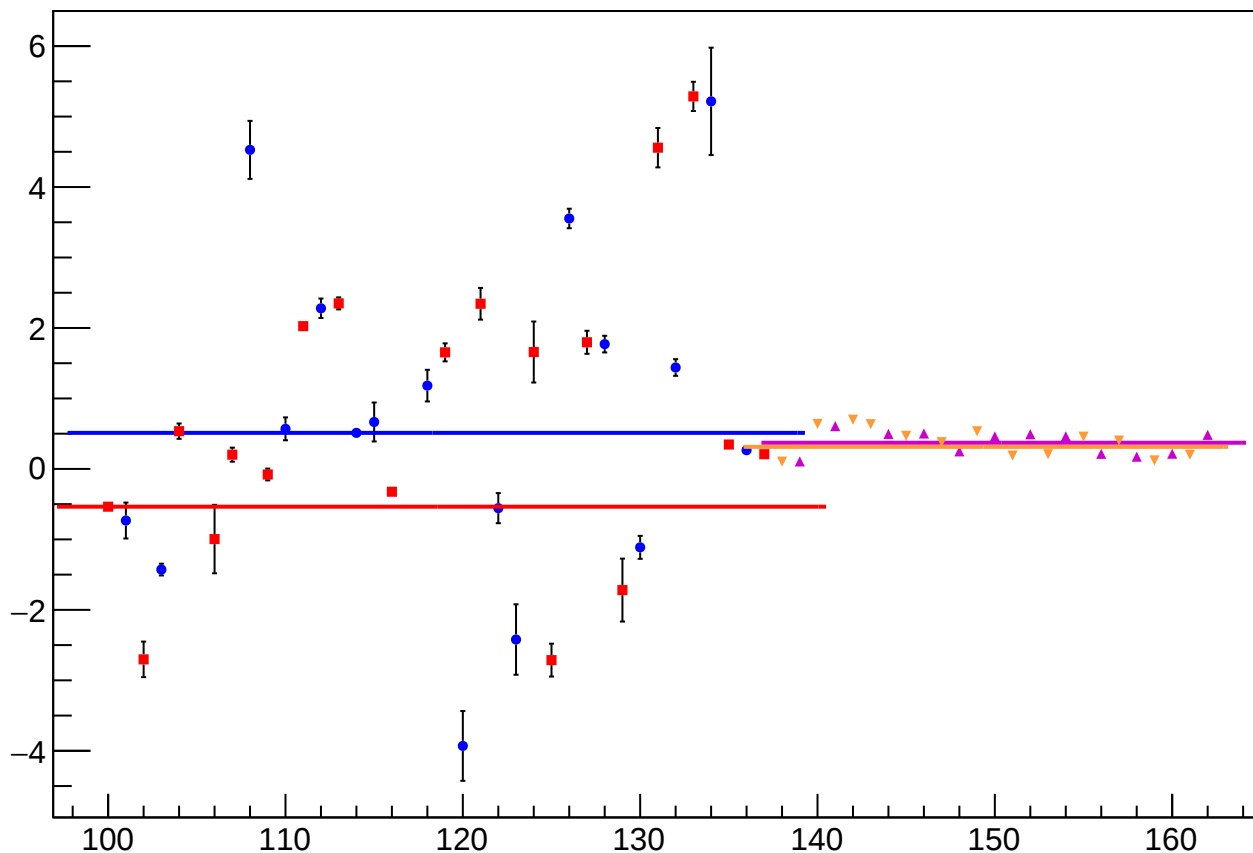
Right:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 934616.3/35

In:  $-102.043 \pm 0.081$   $\chi^2/\text{NDF}$ : 14597.3/28

Out:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 851778.8/31

All:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 1056738.1/60

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.512 \pm 0.000$   $\chi^2/\text{NDF}: 3863.6/16$

Left Out:  $0.313 \pm 0.003$   $\chi^2/\text{NDF}: 6176.0/12$

Right Out:  $-0.536 \pm 0.000$   $\chi^2/\text{NDF}: 33055.3/18$

Left In:  $0.372 \pm 0.002$   $\chi^2/\text{NDF}: 7377.3/11$

Left:  $0.350 \pm 0.002$   $\chi^2/\text{NDF}: 13868.4/24$

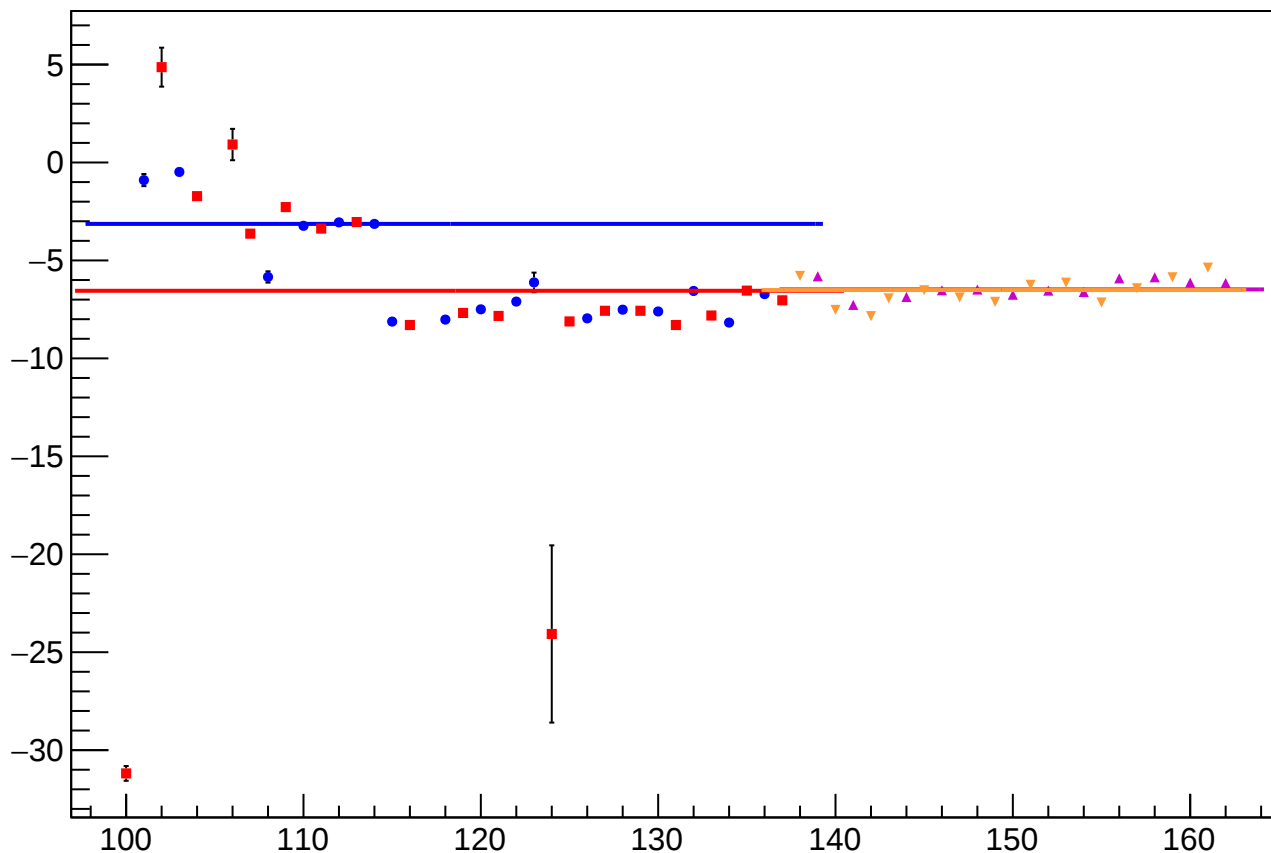
Right:  $0.142 \pm 0.000$   $\chi^2/\text{NDF}: 34560328403056077$

In:  $0.512 \pm 0.000$   $\chi^2/\text{NDF}: 16028.7/28$

Out:  $-0.536 \pm 0.000$   $\chi^2/\text{NDF}: 144954.9/31$

All:  $0.142 \pm 0.000$   $\chi^2/\text{NDF}: 34560328403056077$

# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 368547.6/16

Left Out:  $-6.512 \pm 0.008$   $\chi^2/\text{NDF}$ : 5332.3/12

Right Out:  $-6.549 \pm 0.008$   $\chi^2/\text{NDF}$ : 92207.3/18

Left In:  $-6.479 \pm 0.006$   $\chi^2/\text{NDF}$ : 5248.3/11

Left:  $-6.491 \pm 0.005$   $\chi^2/\text{NDF}$ : 10591.6/24

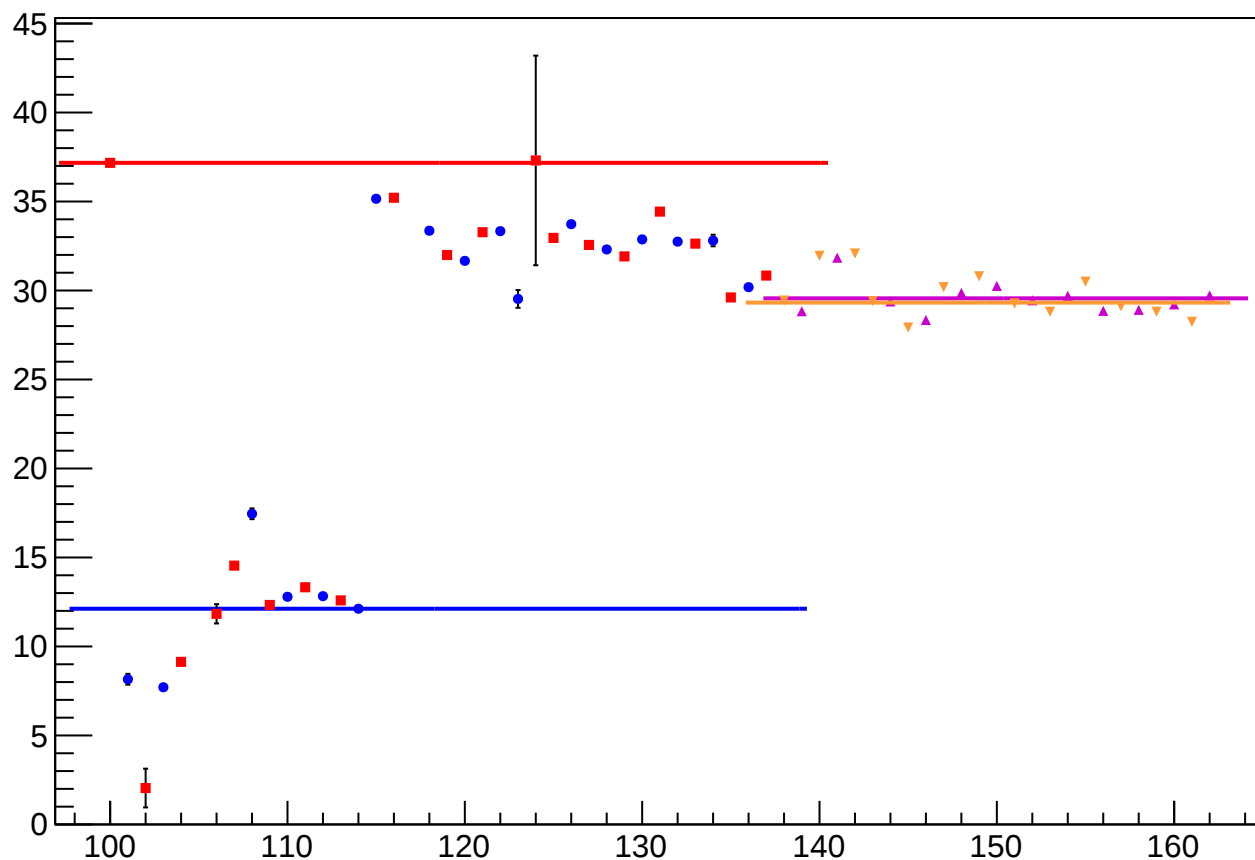
Right:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 667054.5/35

In:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 676557.9/28

Out:  $-6.531 \pm 0.005$   $\chi^2/\text{NDF}$ : 97551.7/31

All:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 1167661.4/60

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 12.121 $\pm$ 0.000  $\chi^2$ /NDF: 1993680.8/16

Left Out: 29.322 $\pm$ 0.013  $\chi^2$ /NDF: 8247.0/12

Right Out: 37.173 $\pm$ 0.000  $\chi^2$ /NDF: 1531278.0/18

Left In: 29.560 $\pm$ 0.011  $\chi^2$ /NDF: 2960.8/11

Left: 29.458 $\pm$ 0.008  $\chi^2$ /NDF: 11404.9/24

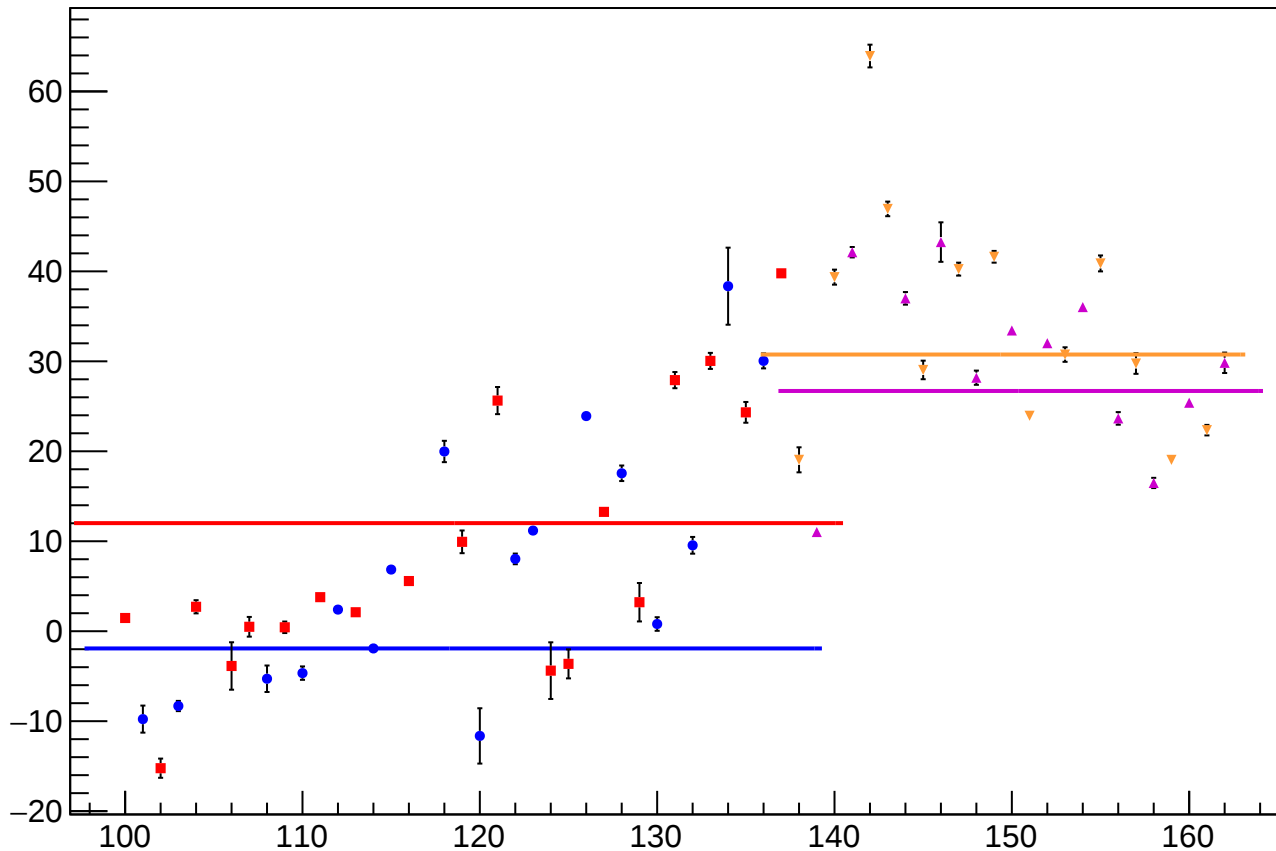
Right: 15.127 $\pm$ 0.000  $\chi^2$ /NDF: 6563554116066231

In: 12.121 $\pm$ 0.000  $\chi^2$ /NDF: 4481372.1/28

Out: 37.173 $\pm$ 0.000  $\chi^2$ /NDF: 1913672.1/31

All: 15.127 $\pm$ 0.000  $\chi^2$ /NDF: 6563554116066231

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 6338.8/16

Left Out:  $30.755 \pm 0.203$   $\chi^2/\text{NDF}$ : 2881.8/12

Right Out:  $12.014 \pm 0.135$   $\chi^2/\text{NDF}$ : 12576.1/18

Left In:  $26.703 \pm 0.147$   $\chi^2/\text{NDF}$ : 4631.8/11

Left:  $28.102 \pm 0.119$   $\chi^2/\text{NDF}$ : 7774.8/24

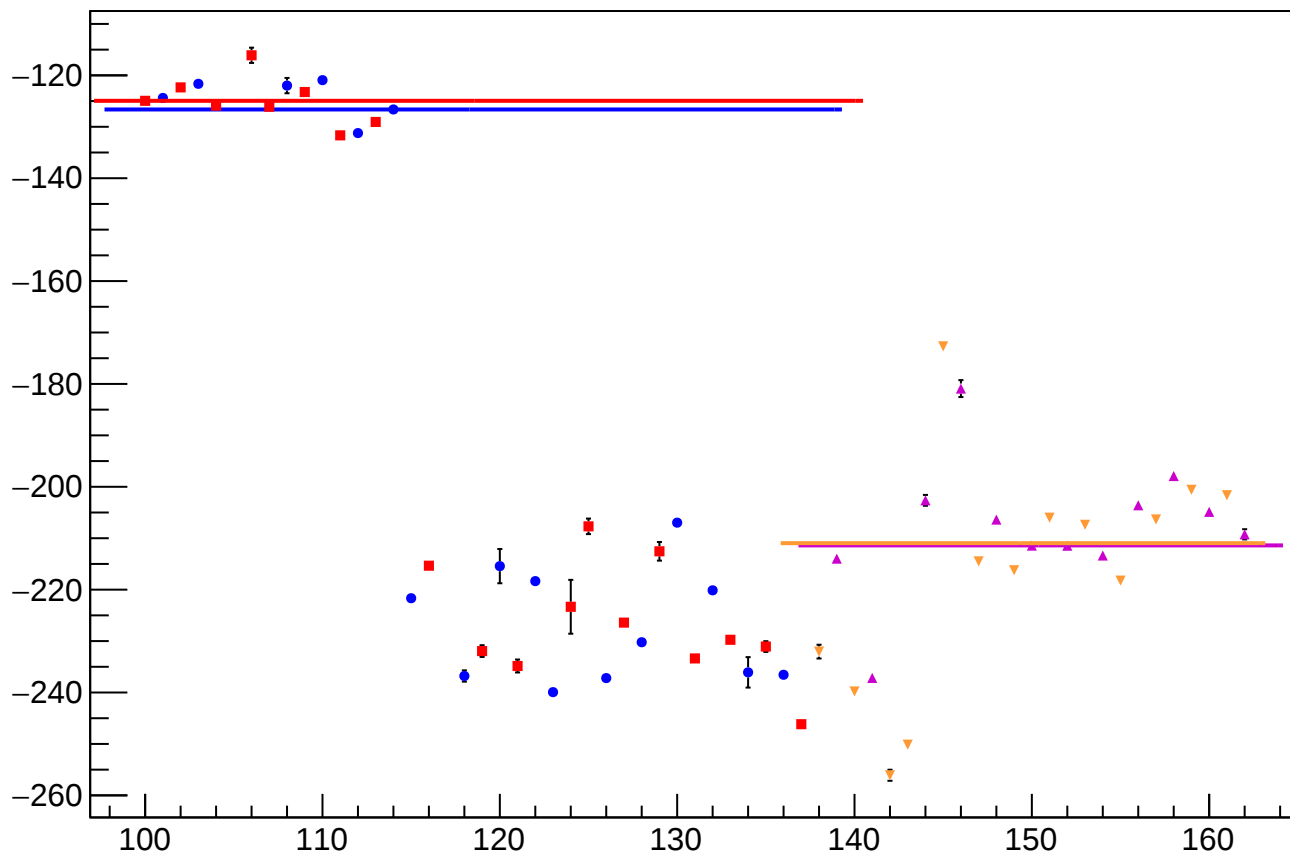
Right:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 29534.8/35

In:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 48735.8/28

Out:  $17.776 \pm 0.112$   $\chi^2/\text{NDF}$ : 21368.8/31

All:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 100750.3/60

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-126.632 \pm 0.000$   $\chi^2/\text{NDF}: 278525.1/16$

Left Out:  $-210.961 \pm 0.163$   $\chi^2/\text{NDF}: 11491.4/12$

Right Out:  $-124.949 \pm 0.000$   $\chi^2/\text{NDF}: 470459.3/18$

Left In:  $-211.395 \pm 0.123$   $\chi^2/\text{NDF}: 5138.6/11$

Left:  $-211.237 \pm 0.098$   $\chi^2/\text{NDF}: 16634.6/24$

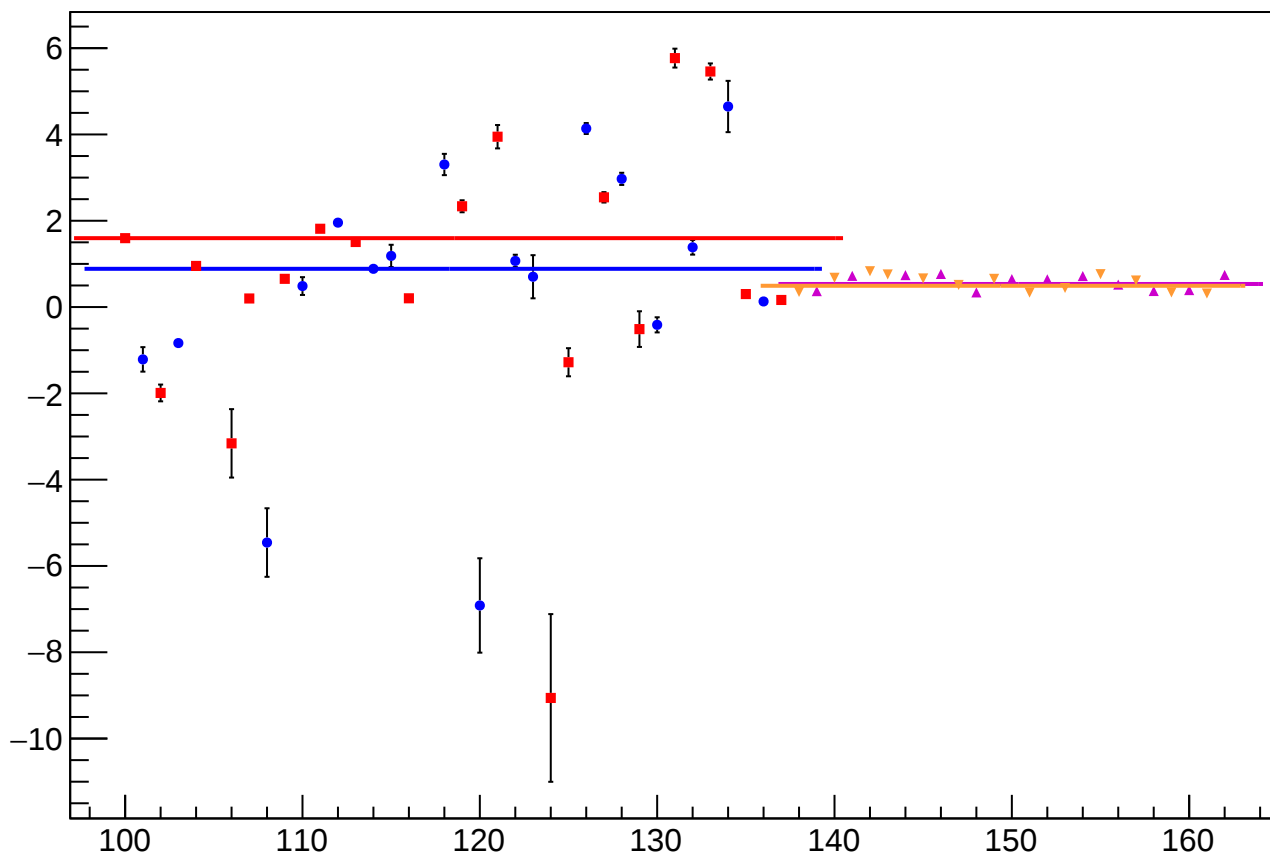
Right:  $-126.038 \pm 0.000$   $\chi^2/\text{NDF}: 60537895424820$

In:  $-126.632 \pm 0.000$   $\chi^2/\text{NDF}: 756951.6/28$

Out:  $-124.949 \pm 0.000$   $\chi^2/\text{NDF}: 760285.3/31$

All:  $-126.038 \pm 0.000$   $\chi^2/\text{NDF}: 60537895424$

dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.886 \pm 0.000$   $\chi^2/\text{NDF}: 9294.4/16$

Left Out:  $0.493 \pm 0.003$   $\chi^2/\text{NDF}: 3274.2/12$

Right Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 4615.5/18$

Left In:  $0.535 \pm 0.002$   $\chi^2/\text{NDF}: 4031.9/11$

Left:  $0.519 \pm 0.002$   $\chi^2/\text{NDF}: 7417.0/24$

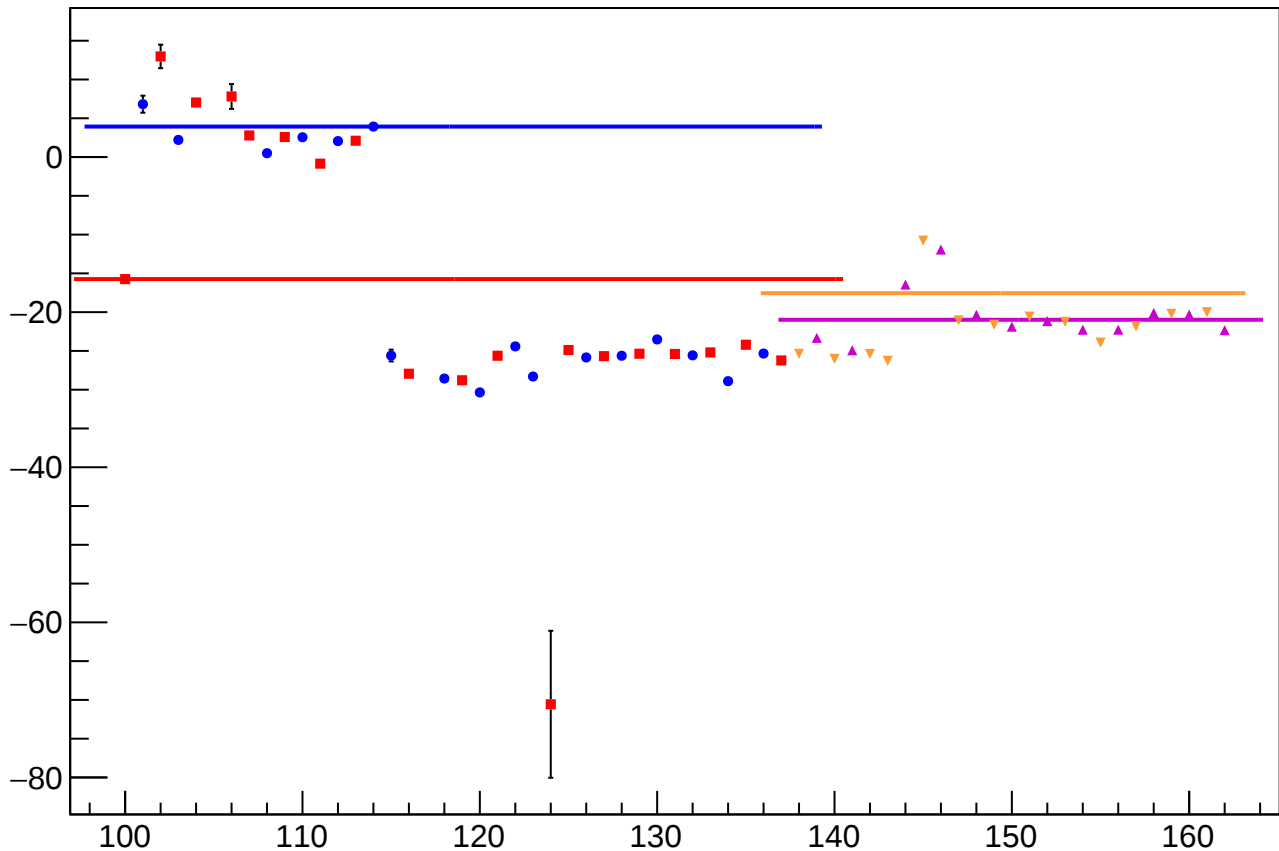
Right:  $1.137 \pm 0.000$   $\chi^2/\text{NDF}: 39737604737084083$

In:  $0.886 \pm 0.000$   $\chi^2/\text{NDF}: 33889.3/28$

Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 136343.4/31$

All:  $1.137 \pm 0.000$   $\chi^2/\text{NDF}: 39737604737084083$

# dit\_sam4\_4aY\_slope vs Slug, Sign Corrected



Right In:  $3.930 \pm 0.000$   $\chi^2/\text{NDF}$ : 6140834.2/16

Left Out:  $-17.554 \pm 0.016$   $\chi^2/\text{NDF}$ : 118759.1/12

Right Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}$ : 267951.2/18

Left In:  $-20.982 \pm 0.016$   $\chi^2/\text{NDF}$ : 10240.8/11

Left:  $-19.263 \pm 0.011$   $\chi^2/\text{NDF}$ : 152719.1/24

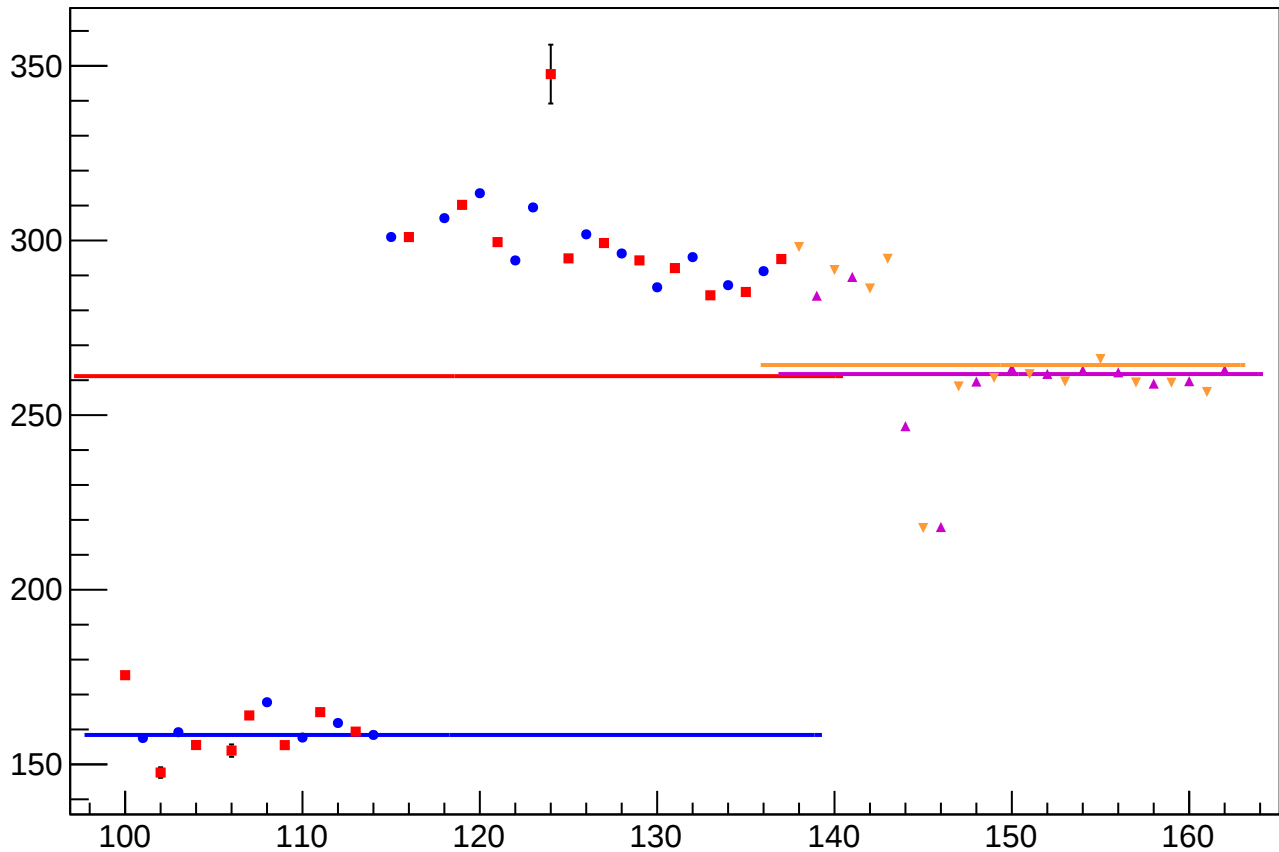
Right:  $3.282 \pm 0.000$   $\chi^2/\text{NDF}$ : 71120480173548026

In:  $3.930 \pm 0.000$   $\chi^2/\text{NDF}$ : 8650426.6/28

Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}$ : 400092.9/31

All:  $3.282 \pm 0.000$   $\chi^2/\text{NDF}$ : 71120480173548

# dit\_sam4\_4eY\_slope vs Slug, Sign Corrected



Right In: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 3516706.2/16

Left Out: 264.344+/-0.039  $\chi^2/\text{NDF}$ : 201558.3/12

Right Out: 261.159+/-0.058  $\chi^2/\text{NDF}$ : 1071248.7/18

Left In: 261.758+/-0.033  $\chi^2/\text{NDF}$ : 36473.2/11

Left: 262.846+/-0.025  $\chi^2/\text{NDF}$ : 240558.3/24

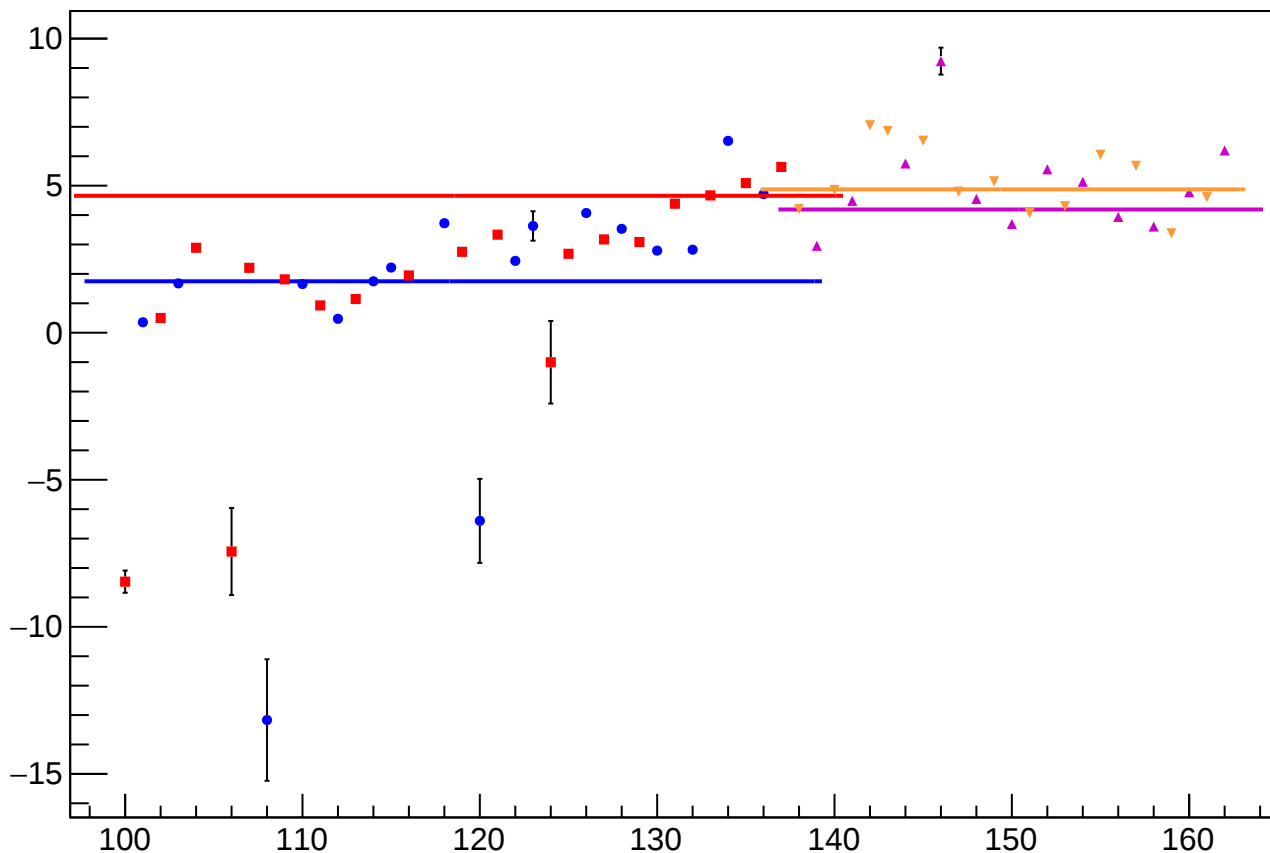
Right: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 7687009.8/35

In: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 13142387.5/28

Out: 263.355+/-0.033  $\chi^2/\text{NDF}$ : 1274861.5/31

All: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 24834290.7/60

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 11344.3/16

Left Out: 4.874 $\pm$ 0.017  $\chi^2$ /NDF:1995.2/12

Right Out: 4.656 $\pm$ 0.006  $\chi^2$ /NDF: 68303.7/18

Left In: 4.190 $\pm$ 0.016  $\chi^2$ /NDF:3097.1/11

Left: 4.508 $\pm$ 0.012  $\chi^2$ /NDF: 5960.9/24

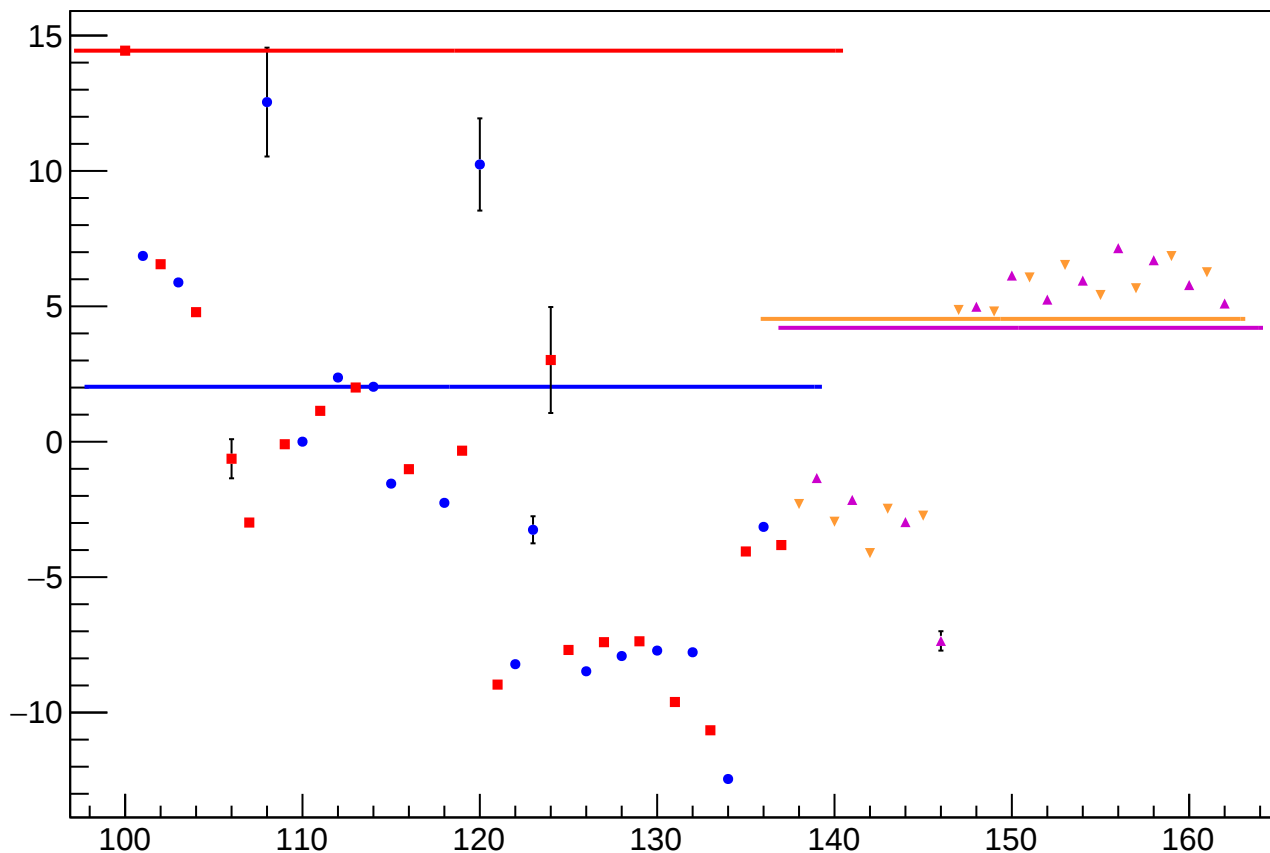
Right: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 288719.9/35

In: 1.748 $\pm$ 0.000  $\chi^2$ /NDF:38251.4/28

Out: 4.683 $\pm$ 0.006  $\chi^2$ /NDF:70443.3/31

All: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 351554.0/60

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In: 2.030 $\pm$ 0.000  $\chi^2$ /NDF: 202792.6/16

Left Out: 4.537 $\pm$ 0.014  $\chi^2$ /NDF:39579.2/12

Right Out: 14.441 $\pm$ 0.000  $\chi^2$ /NDF: 5836025.9/18

Left In: 4.206 $\pm$ 0.013  $\chi^2$ /NDF:62464.6/11

Left: 4.367 $\pm$ 0.010  $\chi^2$ /NDF: 102335.7/24

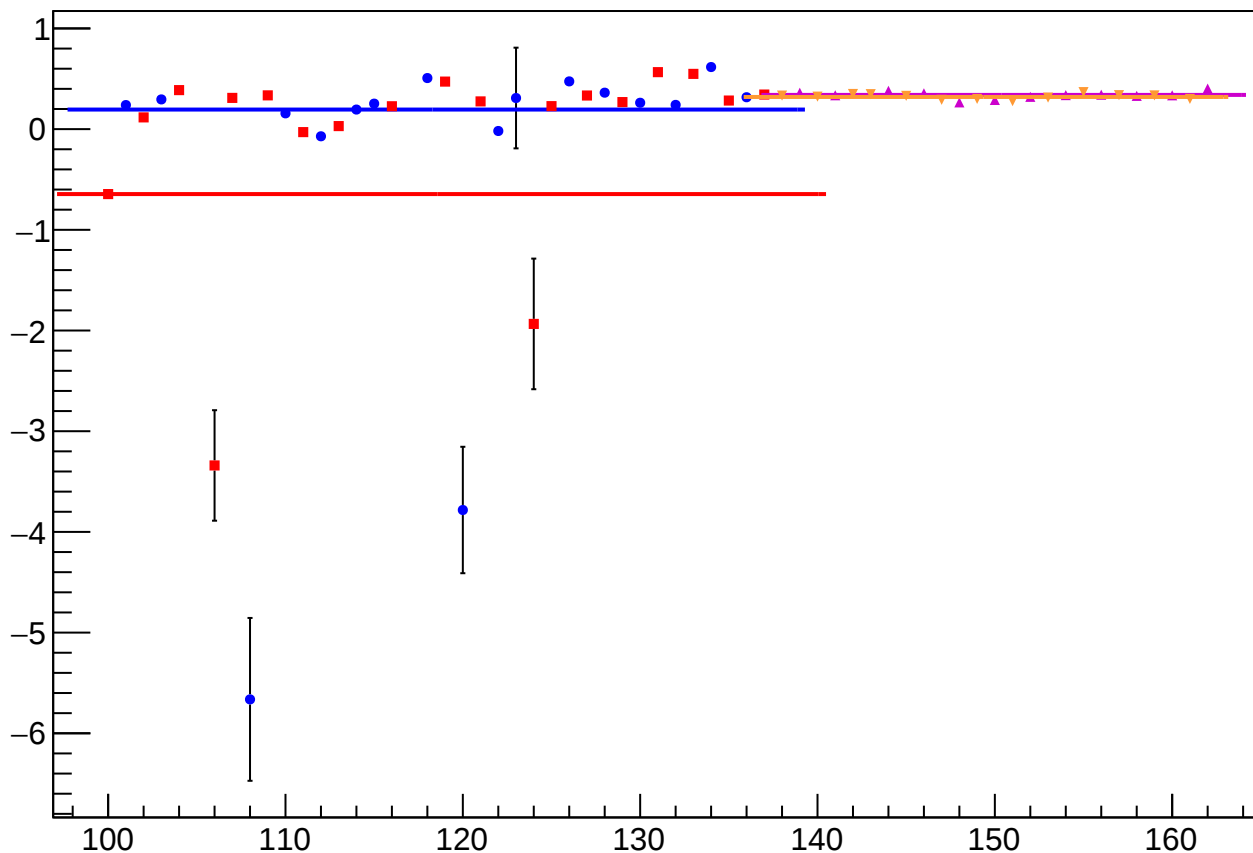
Right: 2.439 $\pm$ 0.000  $\chi^2$ /NDF: 70811145349033114

In: 2.030 $\pm$ 0.000  $\chi^2$ /NDF:291299.2/28

Out: 14.441 $\pm$ 0.000  $\chi^2$ /NDF:6386215.2/31

All: 2.439 $\pm$ 0.000  $\chi^2$ /NDF: 70811145349033114

# dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.194 $\pm$ 0.000  $\chi^2$ /NDF: 9617.3/16

Left Out: 0.319 $\pm$ 0.001  $\chi^2$ /NDF:1240.9/12

Right Out: -0.645 $\pm$ 0.000  $\chi^2$ /NDF: 191963.2/18

Left In: 0.340 $\pm$ 0.001  $\chi^2$ /NDF:2765.0/11

Left: 0.329 $\pm$ 0.000  $\chi^2$ /NDF: 4467.6/24

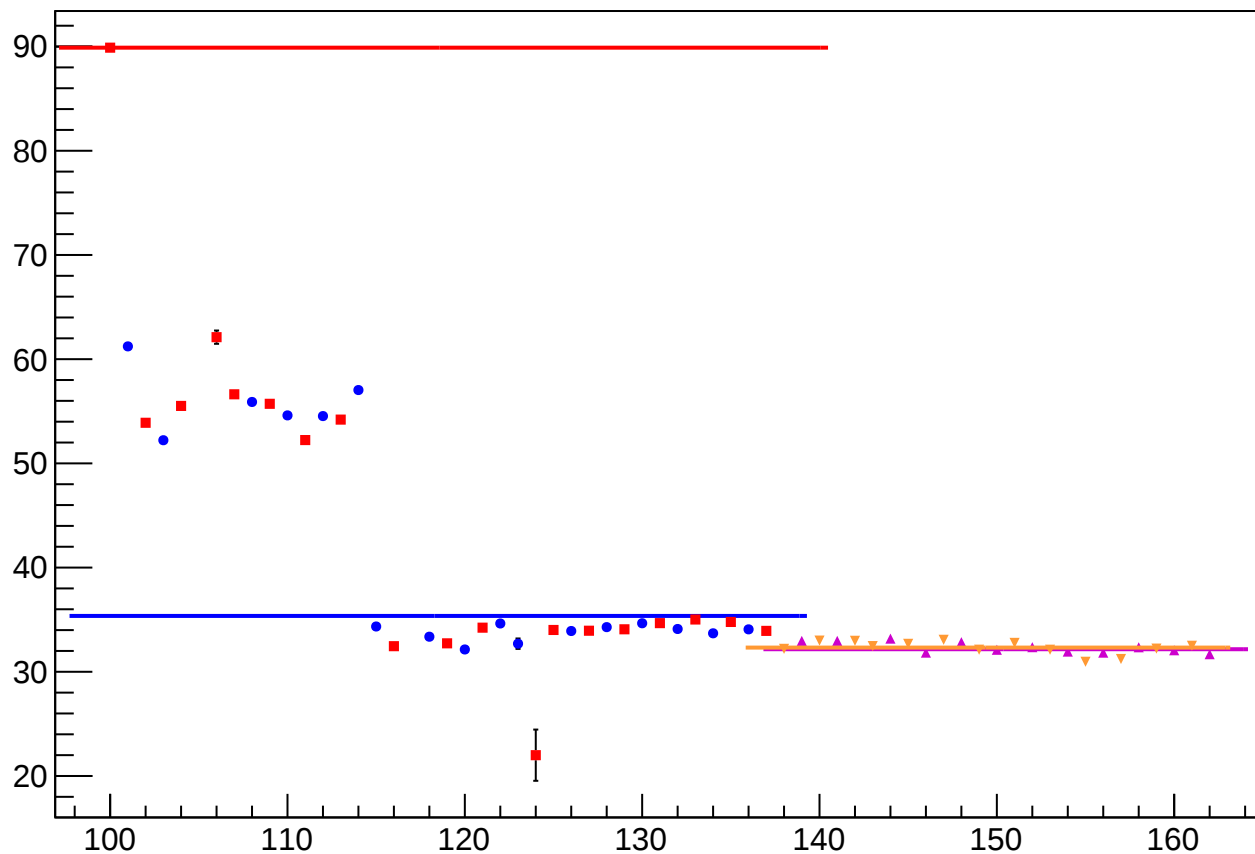
Right: 0.167 $\pm$ 0.000  $\chi^2$ /NDF: 33165765284559017

In: 0.194 $\pm$ 0.000  $\chi^2$ /NDF:58095.0/28

Out: -0.645 $\pm$ 0.000  $\chi^2$ /NDF:2306794.1/31

All: 0.167 $\pm$ 0.000  $\chi^2$ /NDF: 33165765284559017

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 35.361+/-0.011  $\chi^2/\text{NDF}$ : 204481.2/16

Left Out: 32.322+/-0.005  $\chi^2/\text{NDF}$ : 3562.7/12

Right Out: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 68670863.1/18

Left In: 32.165+/-0.004  $\chi^2/\text{NDF}$ : 6850.7/11

Left: 32.235+/-0.003  $\chi^2/\text{NDF}$ : 10994.9/24

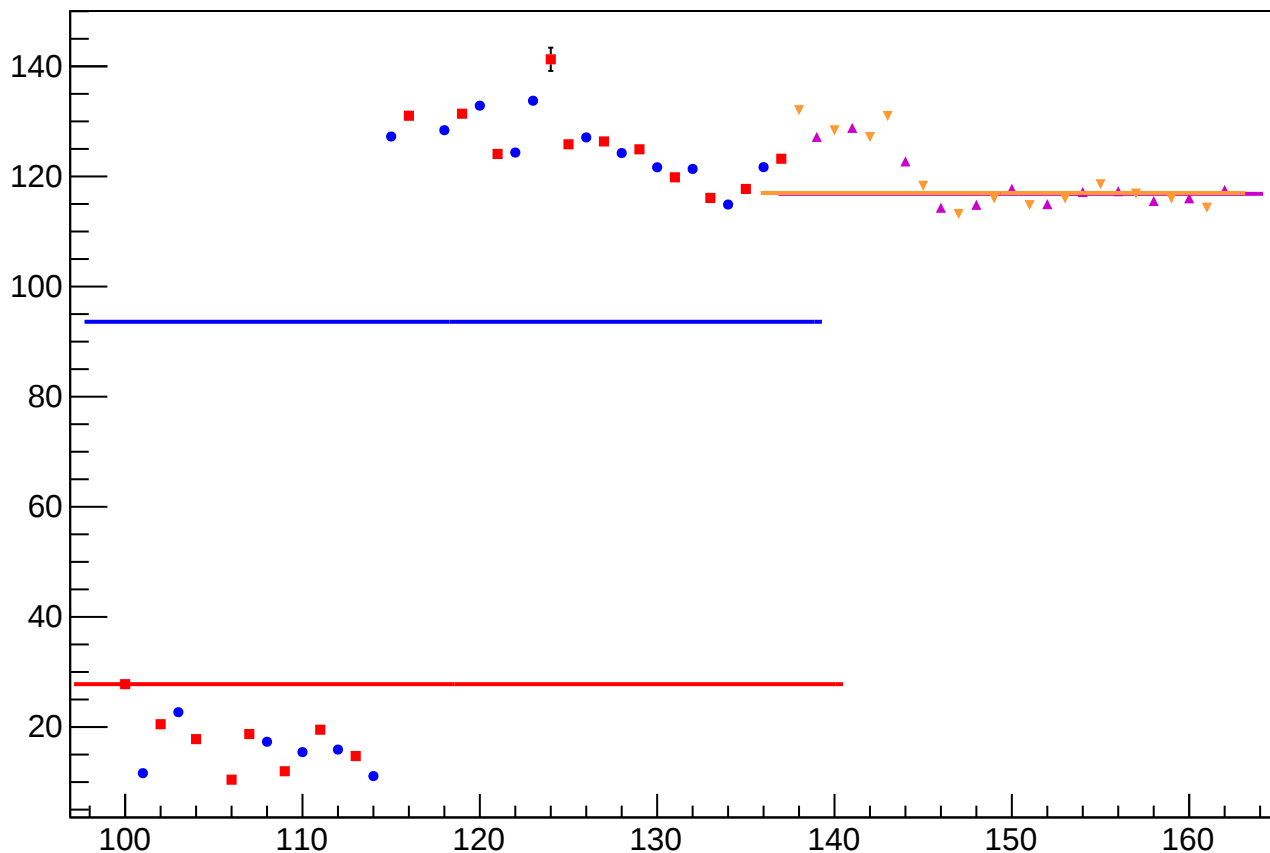
Right: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 93132320.2/35

In: 32.591+/-0.004  $\chi^2/\text{NDF}$ : 283540.8/28

Out: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 209493706.0/31

All: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 410936077.8/60

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In: 93.605+/-0.027  $\chi^2/\text{NDF}$ : 2987877.5/16

Left Out: 117.001+/-0.010  $\chi^2/\text{NDF}$ :136011.2/12

Right Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 7919263.8/18

Left In: 116.842+/-0.010  $\chi^2/\text{NDF}$ :41676.2/11

Left: 116.916+/-0.007  $\chi^2/\text{NDF}$ : 177817.2/24

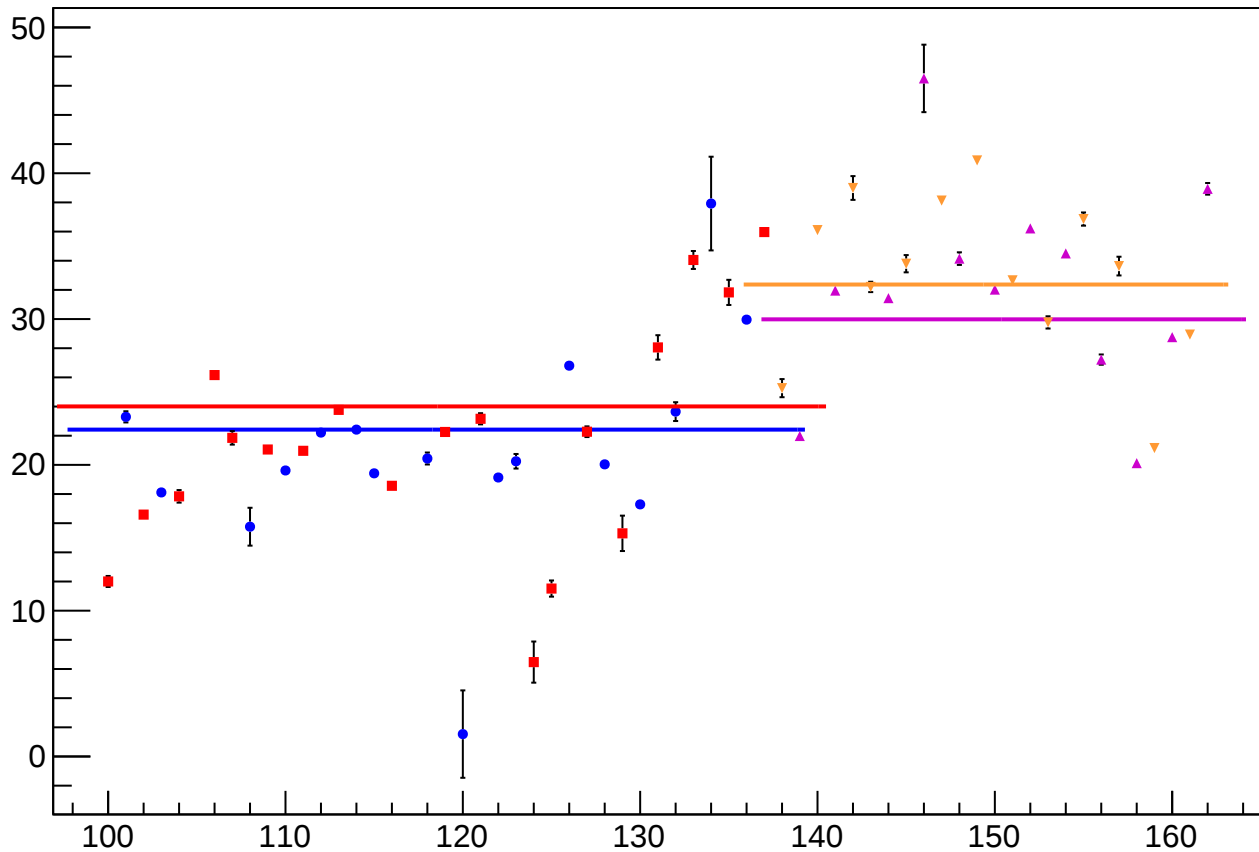
Right: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 16894092.4/35

In: 114.238+/-0.009  $\chi^2/\text{NDF}$ :3692115.3/28

Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ :84097532.5/31

All: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 179976001.2/60

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 3247.9/16

Left Out: 32.368 $\pm$ 0.101  $\chi^2$ /NDF:3582.0/12

Right Out: 24.008 $\pm$ 0.058  $\chi^2$ /NDF: 15408.9/18

Left In: 29.981 $\pm$ 0.080  $\chi^2$ /NDF:4583.3/11

Left: 30.894 $\pm$ 0.063  $\chi^2$ /NDF: 8509.0/24

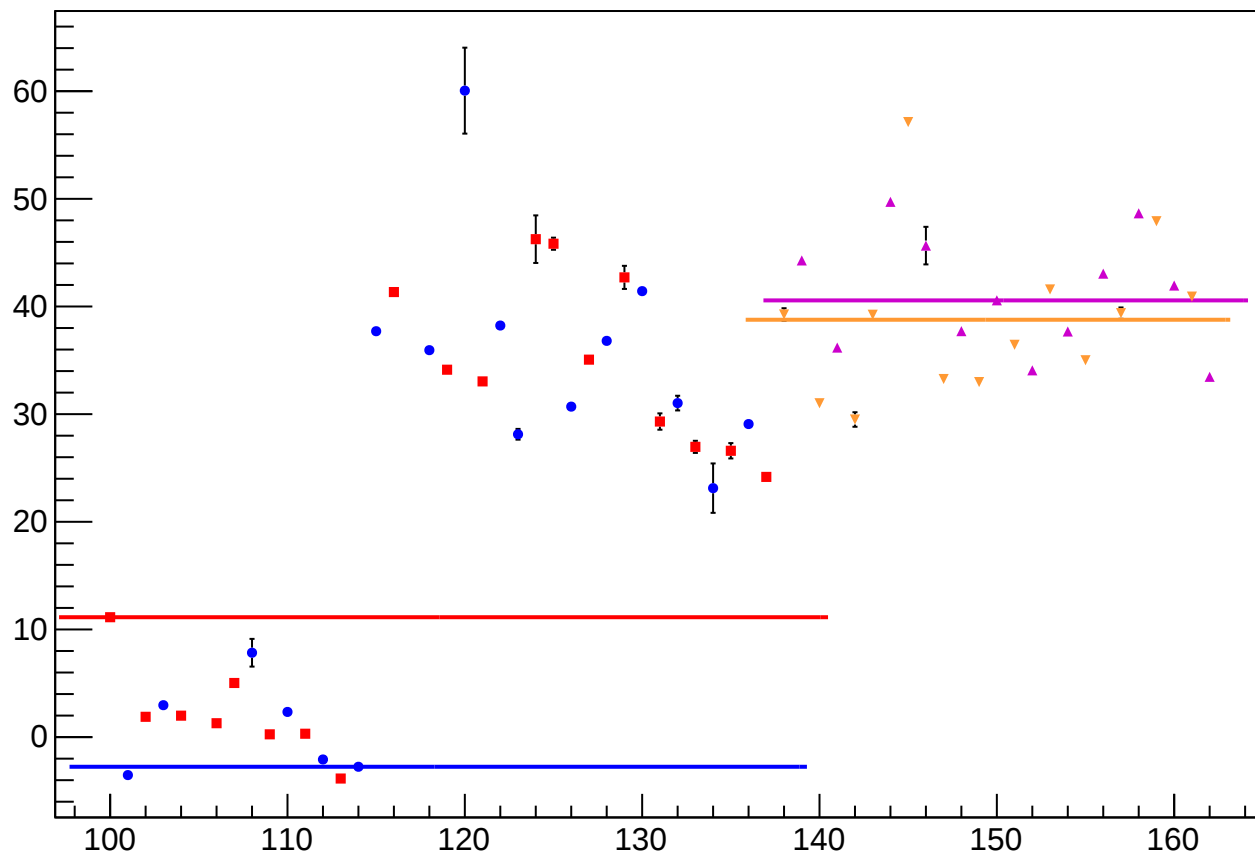
Right: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 19415.4/35

In: 22.418 $\pm$ 0.000  $\chi^2$ /NDF:16842.7/28

Out: 26.062 $\pm$ 0.050  $\chi^2$ /NDF:24139.3/31

All: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 46261.6/60

# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}: 149281.3/16$

Left Out:  $38.769 \pm 0.082$   $\chi^2/\text{NDF}: 6189.3/12$

Right Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}: 2575367.3/18$

Left In:  $40.566 \pm 0.065$   $\chi^2/\text{NDF}: 4107.1/11$

Left:  $39.870 \pm 0.051$   $\chi^2/\text{NDF}: 10588.0/24$

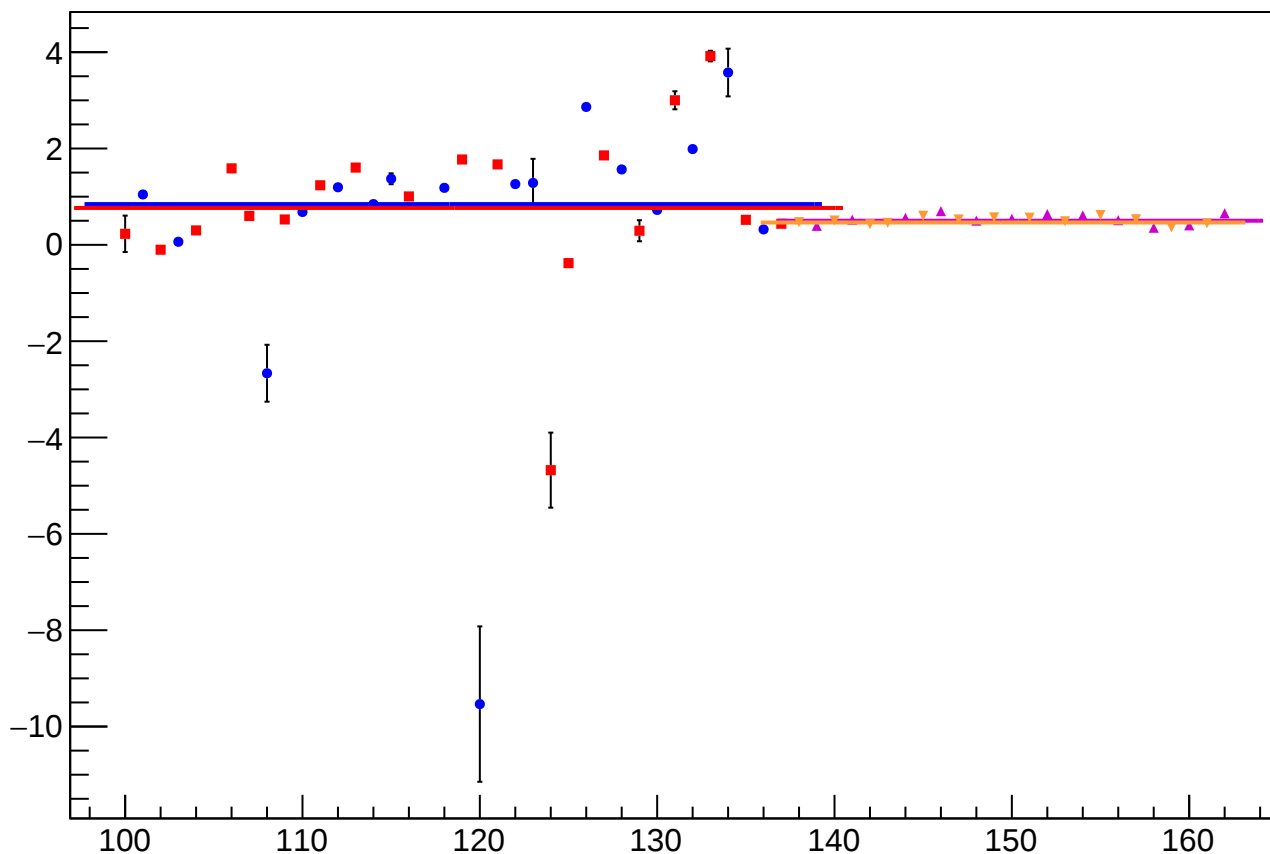
Right:  $-2.637 \pm 0.000$   $\chi^2/\text{NDF}: 9095226728437180$

In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}: 590841.1/28$

Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}: 2694054.4/31$

All:  $-2.637 \pm 0.000$   $\chi^2/\text{NDF}: 9095226728437$

# dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 16305.8/16

Left Out: 0.464 $\pm$ 0.001  $\chi^2$ /NDF: 4556.7/12

Right Out: 0.766 $\pm$ 0.007  $\chi^2$ /NDF: 4211.3/18

Left In: 0.501 $\pm$ 0.001  $\chi^2$ /NDF: 8500.2/11

Left: 0.484 $\pm$ 0.001  $\chi^2$ /NDF: 13492.4/24

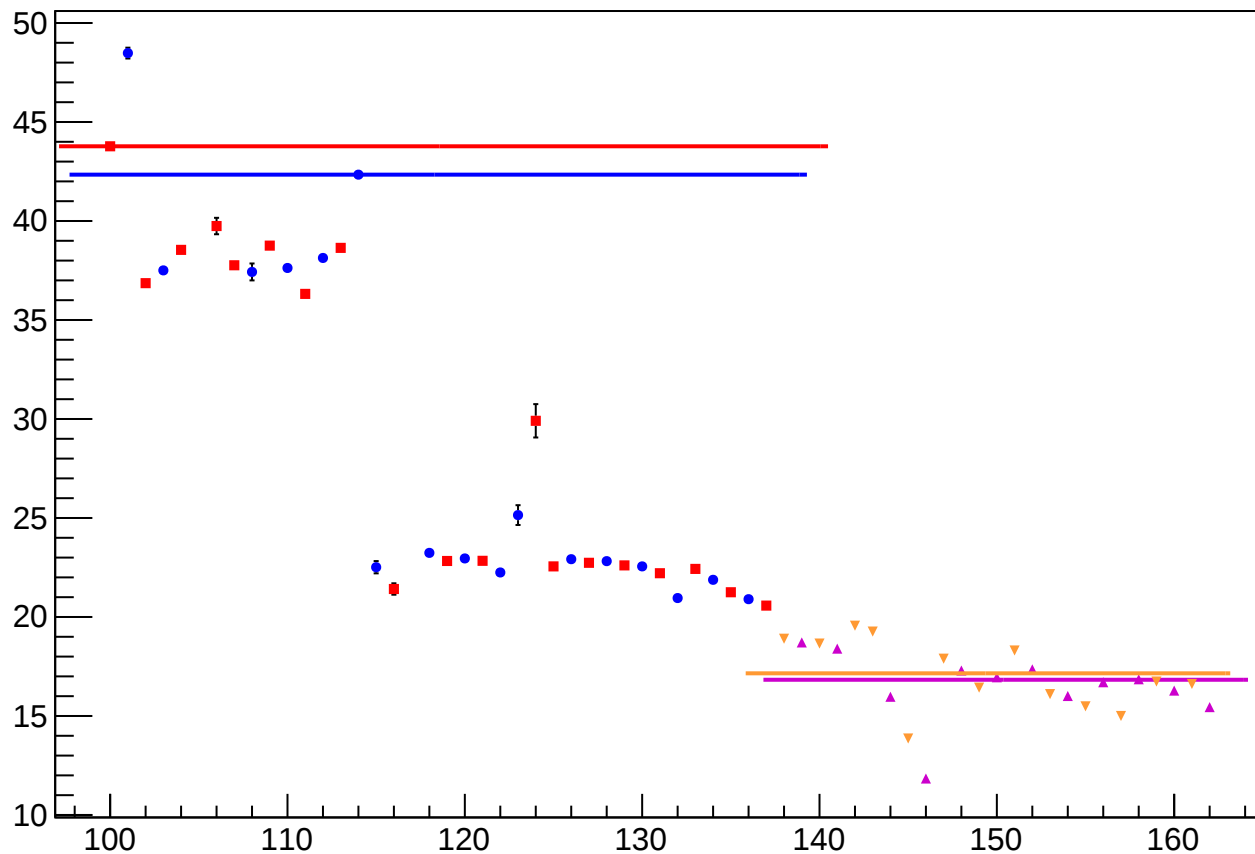
Right: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 20651.7/35

In: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 106213.9/28

Out: 0.474 $\pm$ 0.001  $\chi^2$ /NDF: 10601.8/31

All: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 201862.3/60

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 42.341+/-0.000  $\chi^2/\text{NDF}$ : 4058390.3/16

Left Out: 17.155+/-0.007  $\chi^2/\text{NDF}$ : 43004.8/12

Right Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ : 4579991.9/18

Left In: 16.829+/-0.008  $\chi^2/\text{NDF}$ : 14545.0/11

Left: 17.004+/-0.005  $\chi^2/\text{NDF}$ : 58435.5/24

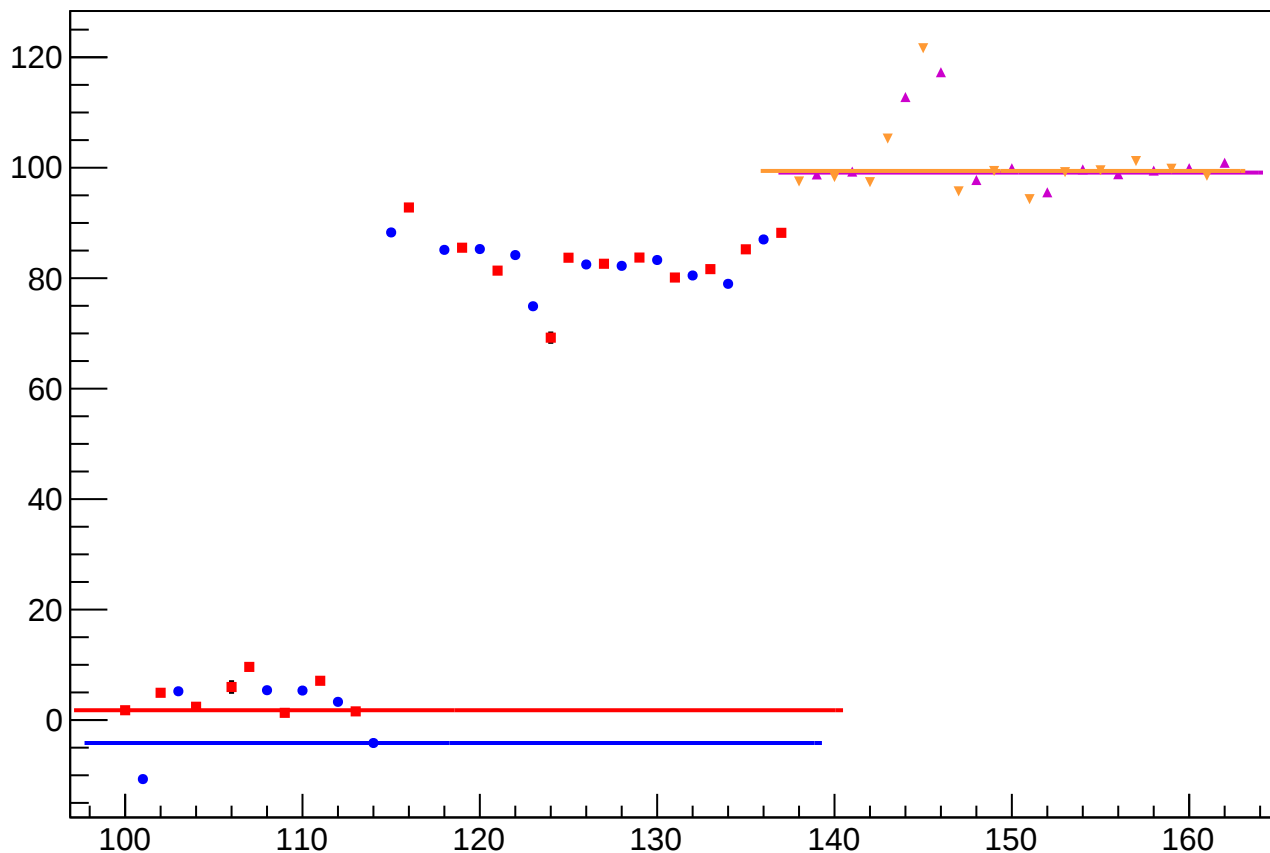
Right: 42.846+/-0.000  $\chi^2/\text{NDF}$ : 1577360390255068

In: 42.341+/-0.000  $\chi^2/\text{NDF}$ : 14224392.5/28

Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ : 17391123.9/31

All: 42.846+/-0.000  $\chi^2/\text{NDF}$ : 1577360390255

# dit\_sam6\_4eY\_slope vs Slug, Sign Corrected



Right In: -4.155+/-0.000  $\chi^2/\text{NDF}$ : 8287312.9/16

Left Out: 99.419+/-0.014  $\chi^2/\text{NDF}$ : 67430.5/12

Right Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ : 5403608.1/18

Left In: 99.120+/-0.014  $\chi^2/\text{NDF}$ : 16391.7/11

Left: 99.265+/-0.010  $\chi^2/\text{NDF}$ : 84056.3/24

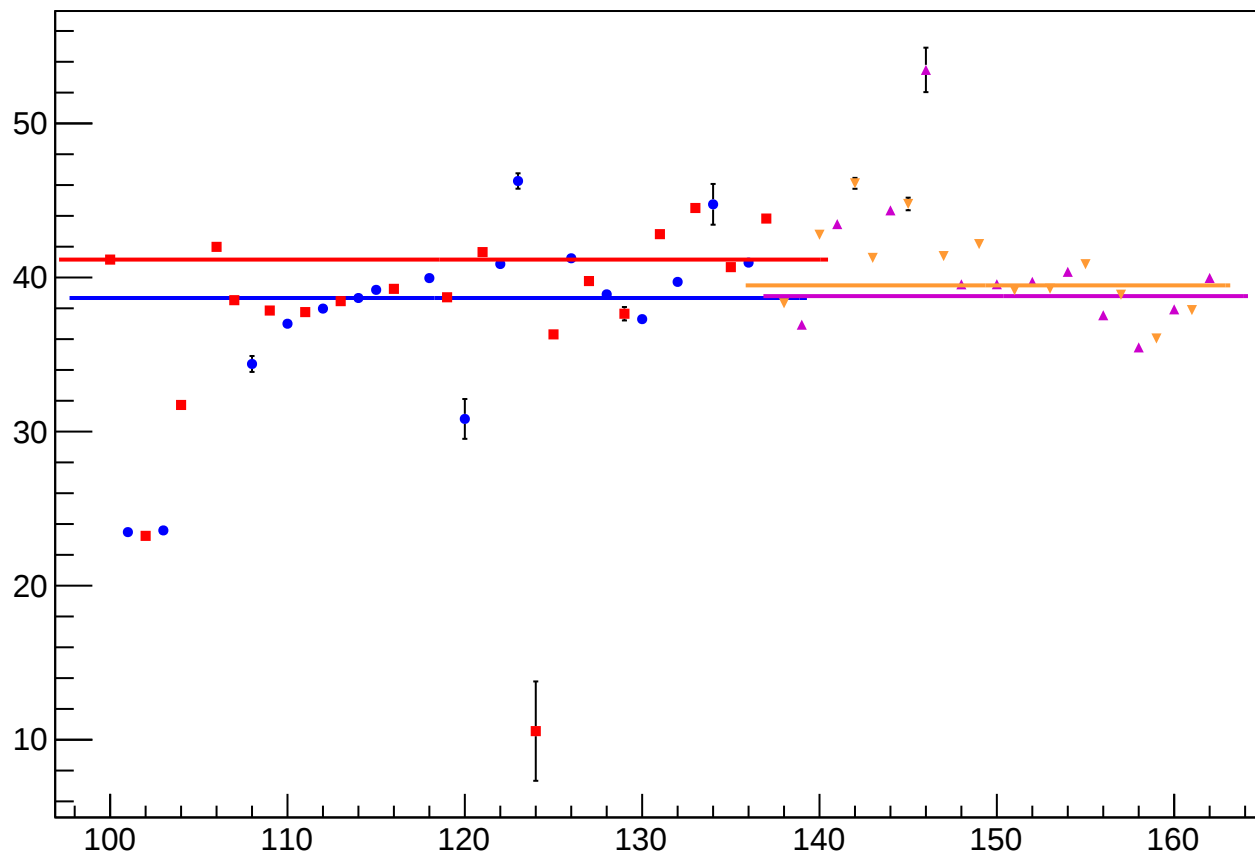
Right: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950686

In: -4.155+/-0.000  $\chi^2/\text{NDF}$ : 66013546.7/28

Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ : 53778213.7/31

All: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950686

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In: 38.669 $\pm$ 0.000  $\chi^2$ /NDF: 59984.0/16

Left Out: 39.489 $\pm$ 0.038  $\chi^2$ /NDF: 3864.6/12

Right Out: 41.163 $\pm$ 0.000  $\chi^2$ /NDF: 38410.9/18

Left In: 38.793 $\pm$ 0.029  $\chi^2$ /NDF: 5329.5/11

Left: 39.042 $\pm$ 0.023  $\chi^2$ /NDF: 9406.0/24

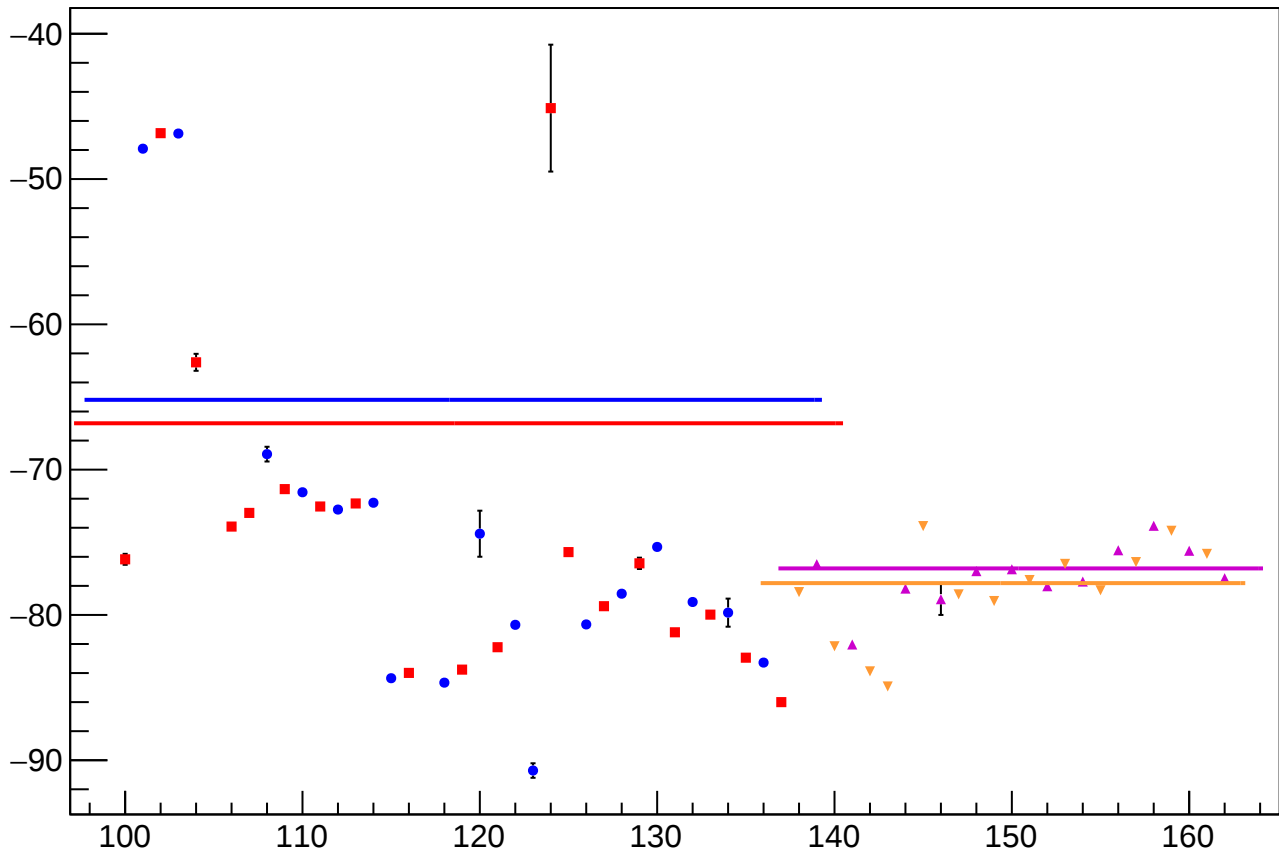
Right: 39.550 $\pm$ 0.000  $\chi^2$ /NDF: 4780640080062069

In: 38.669 $\pm$ 0.000  $\chi^2$ /NDF: 65332.0/28

Out: 41.163 $\pm$ 0.000  $\chi^2$ /NDF: 44186.9/31

All: 39.550 $\pm$ 0.000  $\chi^2$ /NDF: 4780640080062069

# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.195 \pm 0.019$   $\chi^2/\text{NDF}$ : 784258.8/16

Left Out:  $-77.810 \pm 0.032$   $\chi^2/\text{NDF}$ : 10396.9/12

Right Out:  $-66.809 \pm 0.016$   $\chi^2/\text{NDF}$ : 809951.7/18

Left In:  $-76.798 \pm 0.023$   $\chi^2/\text{NDF}$ : 4753.0/11

Left:  $-77.144 \pm 0.019$   $\chi^2/\text{NDF}$ : 15816.6/24

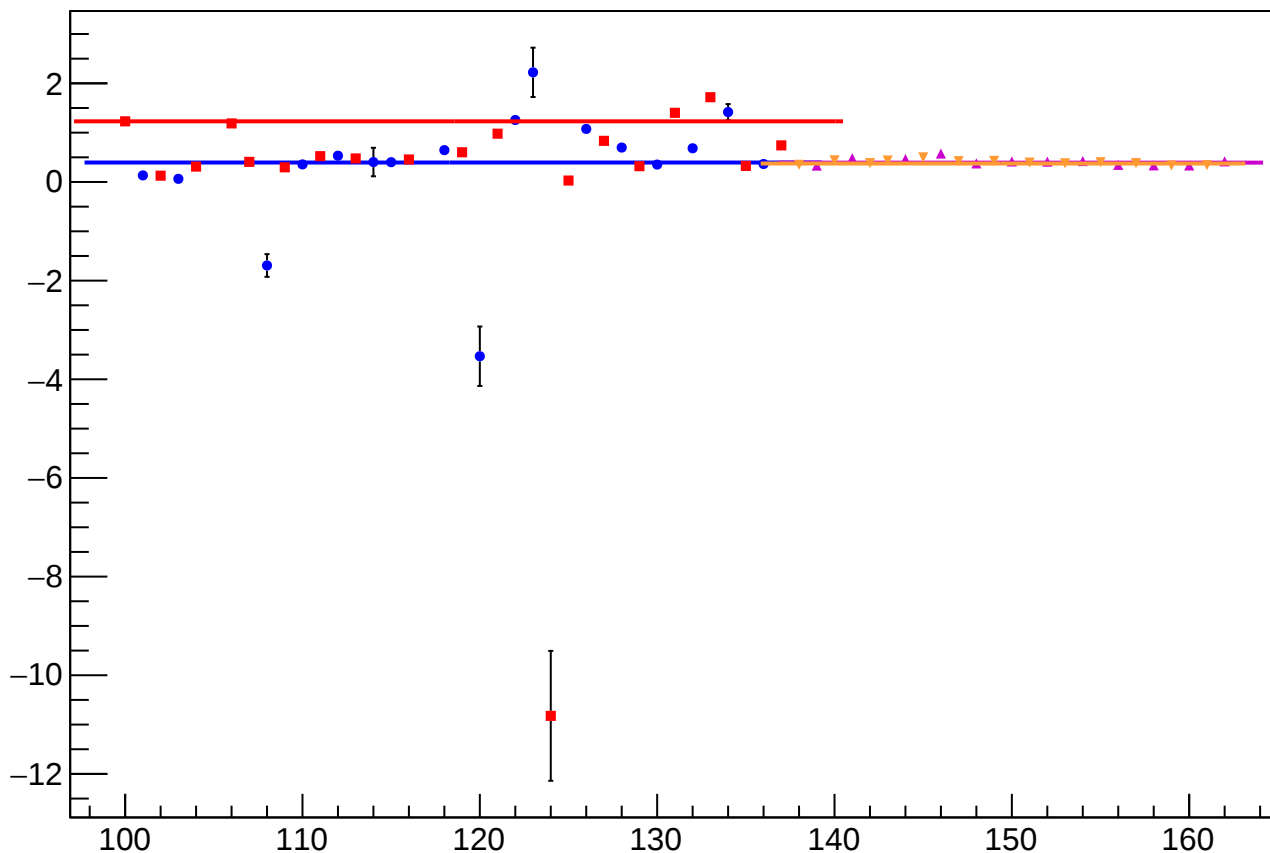
Right:  $-66.134 \pm 0.012$   $\chi^2/\text{NDF}$ : 1598578.1/35

In:  $-69.820 \pm 0.014$   $\chi^2/\text{NDF}$ : 943551.9/28

Out:  $-68.985 \pm 0.014$   $\chi^2/\text{NDF}$ : 916404.4/31

All:  $-69.393 \pm 0.010$   $\chi^2/\text{NDF}$ : 1861661.8/60

# dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.395 \pm 0.002$   $\chi^2/\text{NDF}: 8730.5/16$

Left Out:  $0.374 \pm 0.001$   $\chi^2/\text{NDF}: 5229.3/12$

Right Out:  $1.230 \pm 0.000$   $\chi^2/\text{NDF}: 48941.9/18$

Left In:  $0.392 \pm 0.001$   $\chi^2/\text{NDF}: 6300.8/11$

Left:  $0.384 \pm 0.000$   $\chi^2/\text{NDF}: 12035.5/24$

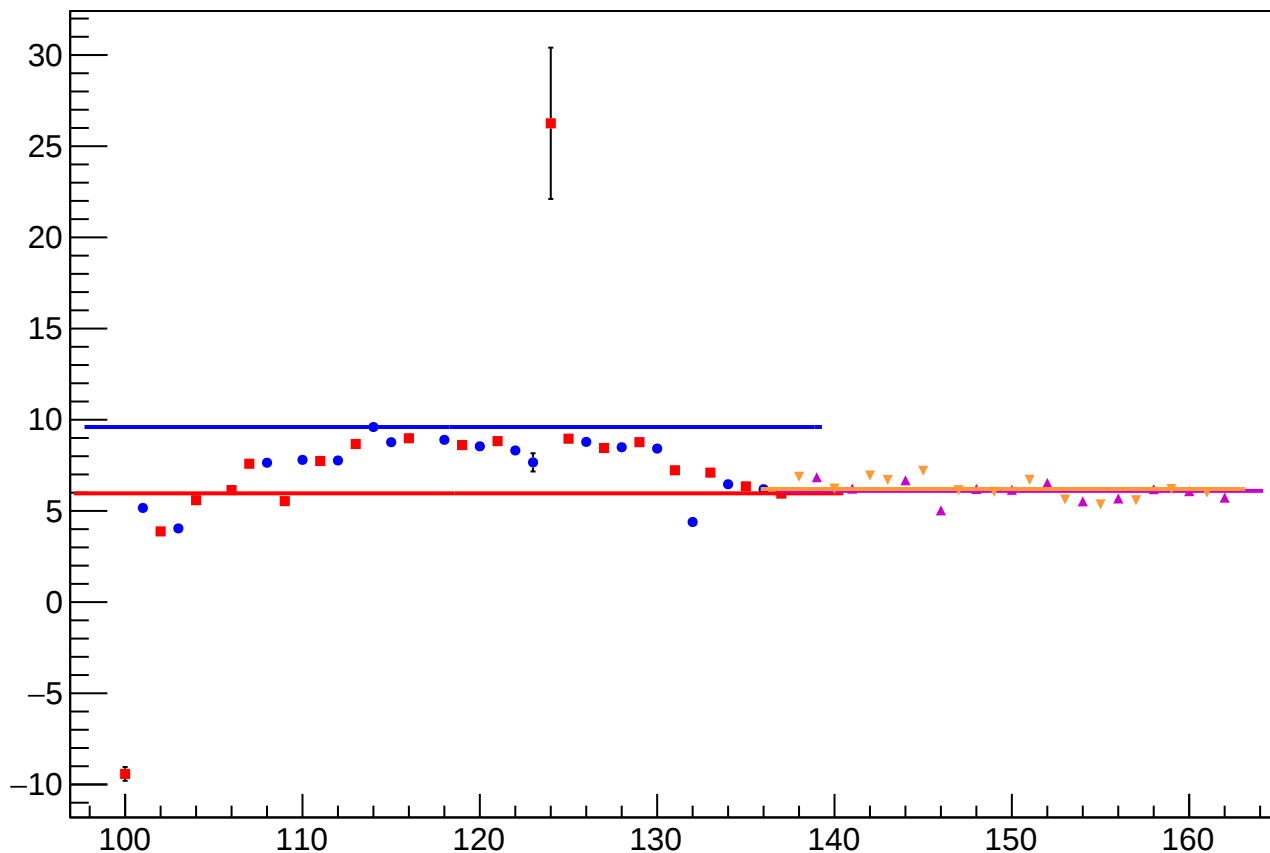
Right:  $1.230 \pm 0.000$   $\chi^2/\text{NDF}: 231481.1/35$

In:  $0.393 \pm 0.001$   $\chi^2/\text{NDF}: 15032.5/28$

Out:  $1.230 \pm 0.000$   $\chi^2/\text{NDF}: 2164250.4/31$

All:  $1.230 \pm 0.000$   $\chi^2/\text{NDF}: 4688075.0/60$

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In: 9.601+/-0.000  $\chi^2/\text{NDF}$ : 377404.1/16

Left Out: 6.201+/-0.002  $\chi^2/\text{NDF}$ : 23831.2/12

Right Out: 5.964+/-0.000  $\chi^2/\text{NDF}$ : 206785.7/18

Left In: 6.100+/-0.002  $\chi^2/\text{NDF}$ : 28749.6/11

Left: 6.142+/-0.001  $\chi^2/\text{NDF}$ : 54073.1/24

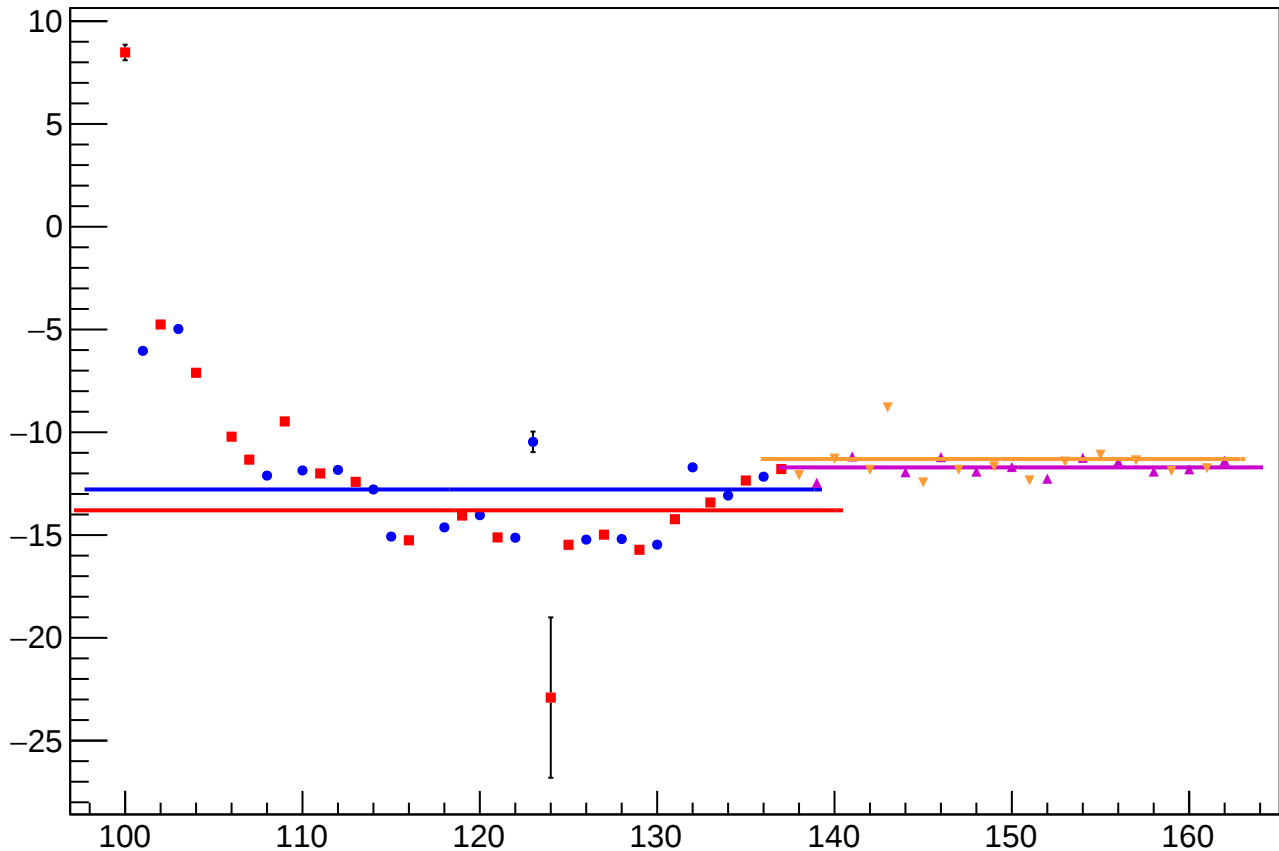
Right: 9.601+/-0.000  $\chi^2/\text{NDF}$ : 80252009.2/35

In: 9.601+/-0.000  $\chi^2/\text{NDF}$ : 4653978.2/28

Out: 5.973+/-0.000  $\chi^2/\text{NDF}$ : 244158.6/31

All: 9.601+/-0.000  $\chi^2/\text{NDF}$ : 87456448.8/60

# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 122716.4/16

Left Out:  $-11.301 \pm 0.003$   $\chi^2/\text{NDF}$ : 172661.5/12

Right Out:  $-13.797 \pm 0.005$   $\chi^2/\text{NDF}$ : 78174.8/18

Left In:  $-11.707 \pm 0.002$   $\chi^2/\text{NDF}$ : 13038.9/11

Left:  $-11.526 \pm 0.002$   $\chi^2/\text{NDF}$ : 198864.0/24

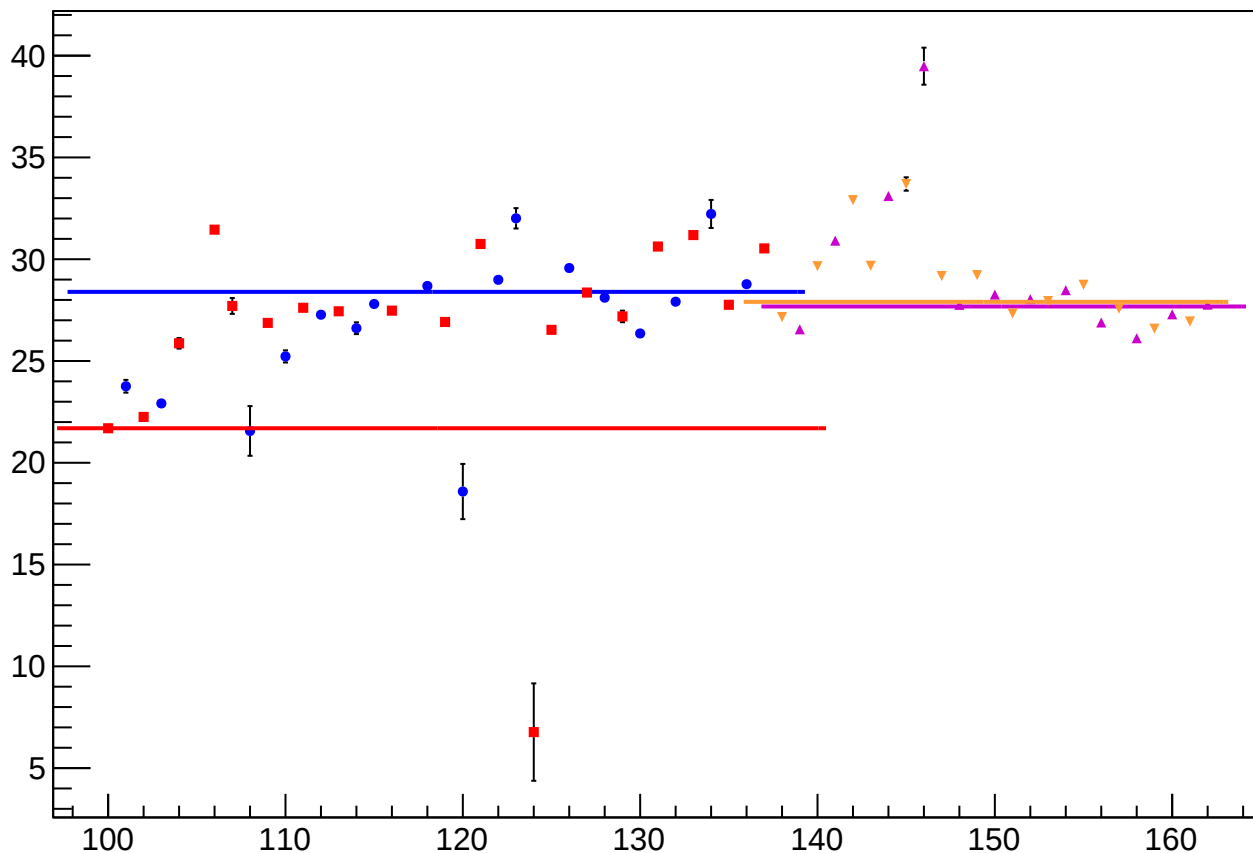
Right:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 236656.7/35

In:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 341494.5/28

Out:  $-11.785 \pm 0.002$   $\chi^2/\text{NDF}$ : 425000.8/31

All:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 944370.5/60

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In: 28.396+/-0.024  $\chi^2/\text{NDF}$ : 3440.8/16

Left Out: 27.906+/-0.022  $\chi^2/\text{NDF}$ : 3470.4/12

Right Out: 21.696+/-0.000  $\chi^2/\text{NDF}$ : 46617.3/18

Left In: 27.678+/-0.017  $\chi^2/\text{NDF}$ : 4533.3/11

Left: 27.763+/-0.014  $\chi^2/\text{NDF}$ : 8069.7/24

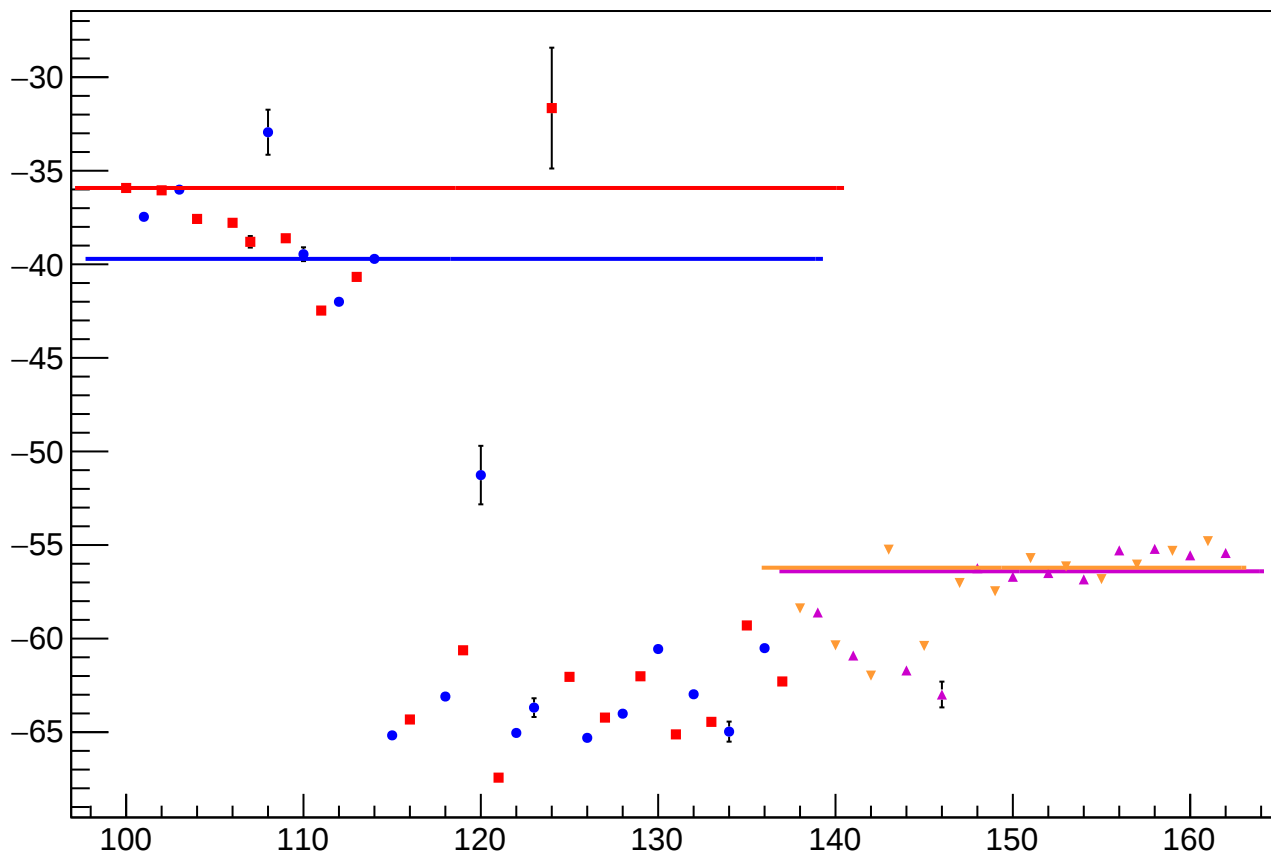
Right: 21.696+/-0.000  $\chi^2/\text{NDF}$ : 125672.7/35

In: 27.916+/-0.014  $\chi^2/\text{NDF}$ : 8555.9/28

Out: 21.696+/-0.000  $\chi^2/\text{NDF}$ : 128350.2/31

All: 21.696+/-0.000  $\chi^2/\text{NDF}$ : 333885.3/60

# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In: -39.710+/-0.000  $\chi^2/\text{NDF}$ : 1354716.8/16

Left Out: -56.212+/-0.019  $\chi^2/\text{NDF}$ : 6126.7/12

Right Out: -35.921+/-0.000  $\chi^2/\text{NDF}$ : 719212.9/18

Left In: -56.405+/-0.014  $\chi^2/\text{NDF}$ : 8058.4/11

Left: -56.333+/-0.011  $\chi^2/\text{NDF}$ : 14251.3/24

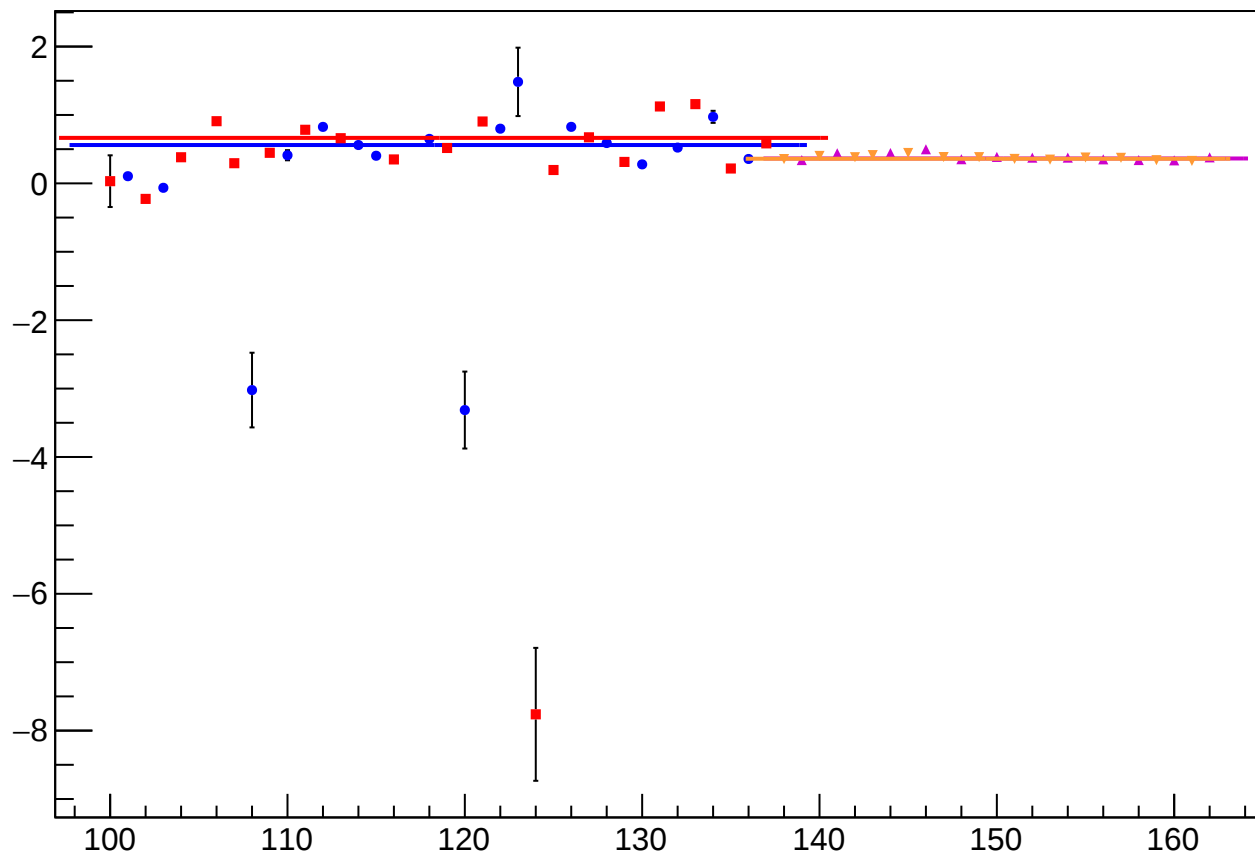
Right: -38.373+/-0.000  $\chi^2/\text{NDF}$ : 110369434011630

In: -39.710+/-0.000  $\chi^2/\text{NDF}$ : 2701244.4/28

Out: -35.921+/-0.000  $\chi^2/\text{NDF}$ : 1888258.1/31

All: -38.373+/-0.000  $\chi^2/\text{NDF}$ : 110369434011

# dit\_sam8\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 16869.2/16

Left Out: 0.360 $\pm$ 0.000  $\chi^2$ /NDF:3585.1/12

Right Out: 0.665 $\pm$ 0.005  $\chi^2$ /NDF: 3781.5/18

Left In: 0.364 $\pm$ 0.000  $\chi^2$ /NDF:4926.9/11

Left: 0.362 $\pm$ 0.000  $\chi^2$ /NDF: 8555.1/24

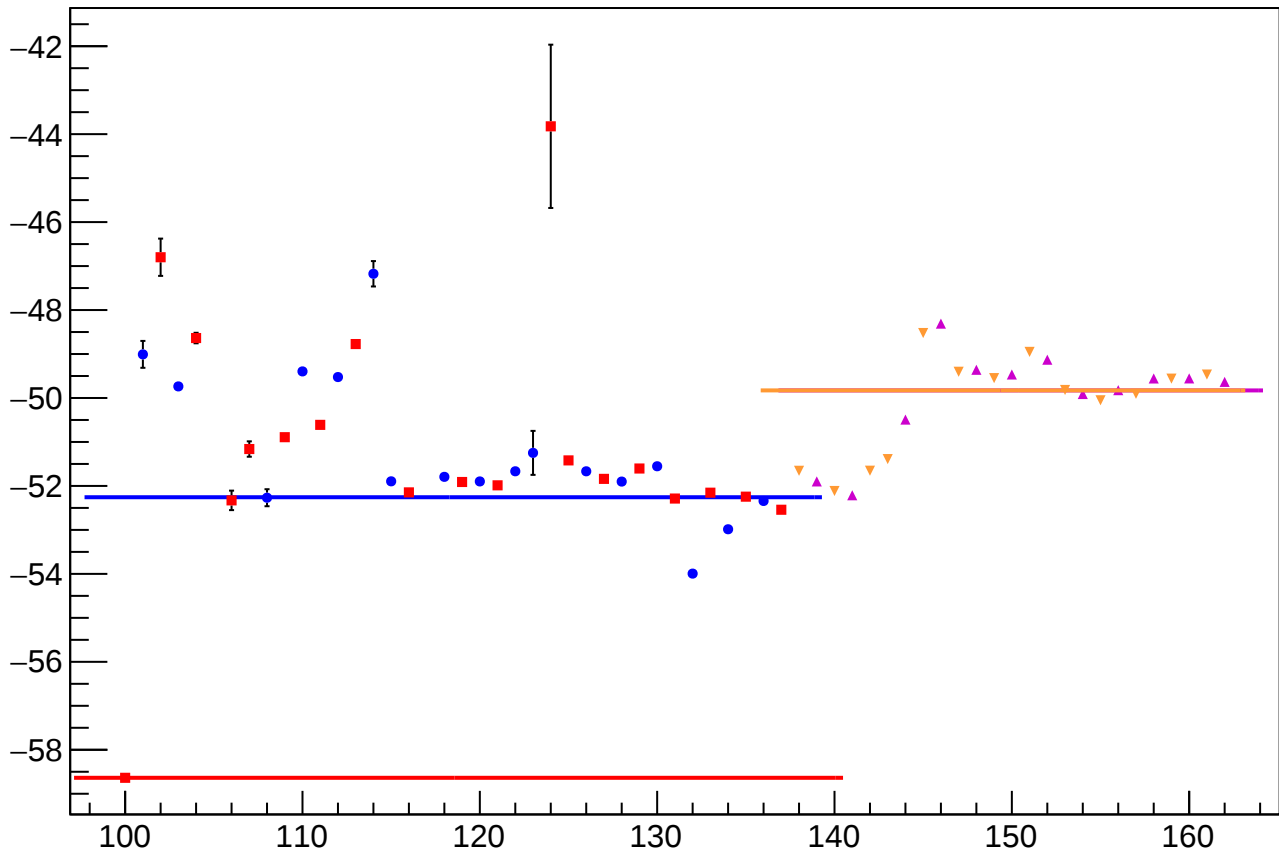
Right: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 21167.9/35

In: 0.561 $\pm$ 0.000  $\chi^2$ /NDF:302952.7/28

Out: 0.363 $\pm$ 0.000  $\chi^2$ /NDF:11731.5/31

All: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 528567.6/60

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In: -52.257 +/- 0.004  $\chi^2/\text{NDF}$ : 24373.7/16

Left Out: -49.827 +/- 0.002  $\chi^2/\text{NDF}$ : 154781.0/12

Right Out: -58.637 +/- 0.000  $\chi^2/\text{NDF}$ : 31280742.9/18

Left In: -49.828 +/- 0.001  $\chi^2/\text{NDF}$ : 233165.4/11

Left: -49.828 +/- 0.001  $\chi^2/\text{NDF}$ : 387946.4/24

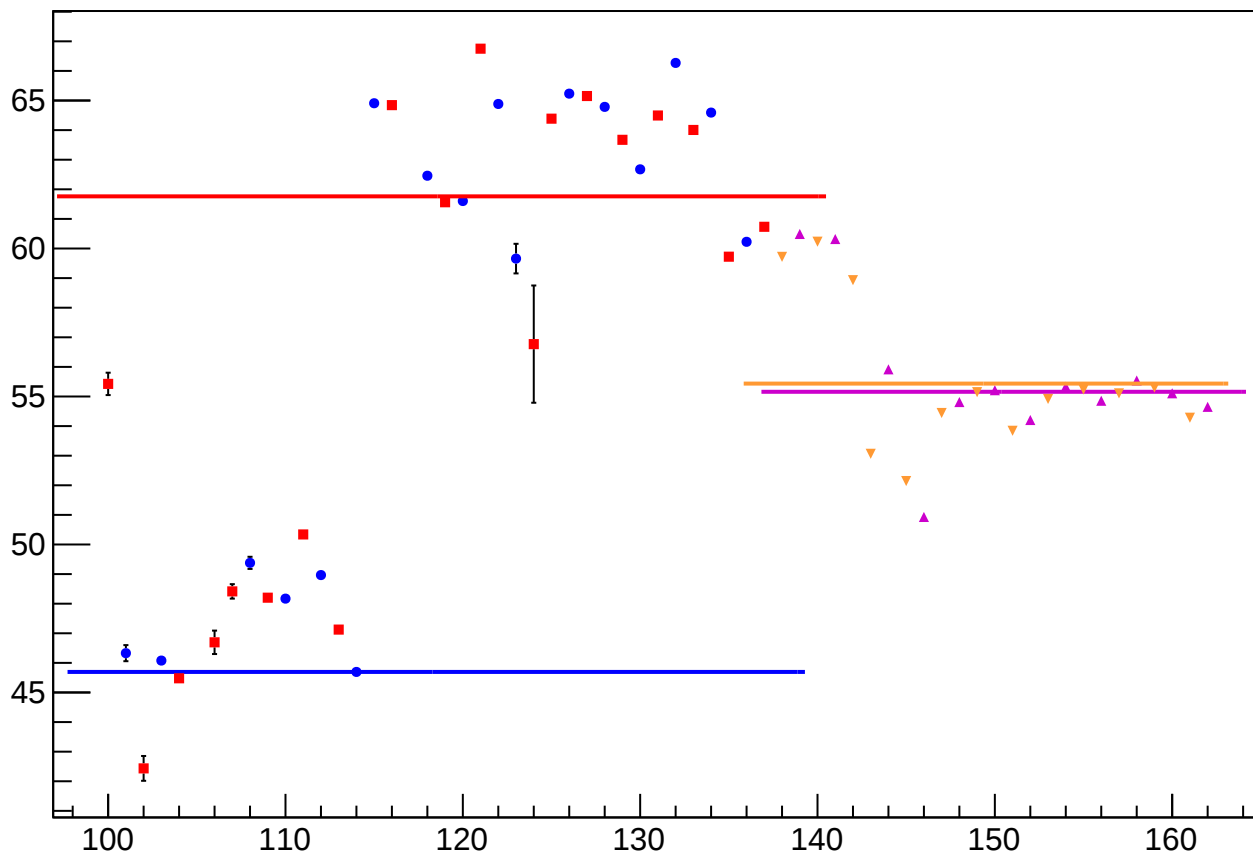
Right: -58.637 +/- 0.000  $\chi^2/\text{NDF}$ : 34369113.8/35

In: -50.224 +/- 0.001  $\chi^2/\text{NDF}$ : 629125.5/28

Out: -58.637 +/- 0.000  $\chi^2/\text{NDF}$ : 55659511.4/31

All: -58.637 +/- 0.000  $\chi^2/\text{NDF}$ : 88937982.3/60

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In:  $45.694 \pm 0.000$   $\chi^2/\text{NDF}$ : 3571709.5/16

Left Out:  $55.436 \pm 0.004$   $\chi^2/\text{NDF}$ : 284919.3/12

Right Out:  $61.762 \pm 0.006$   $\chi^2/\text{NDF}$ : 260089.5/18

Left In:  $55.159 \pm 0.003$   $\chi^2/\text{NDF}$ : 61985.5/11

Left:  $55.276 \pm 0.002$   $\chi^2/\text{NDF}$ : 350345.7/24

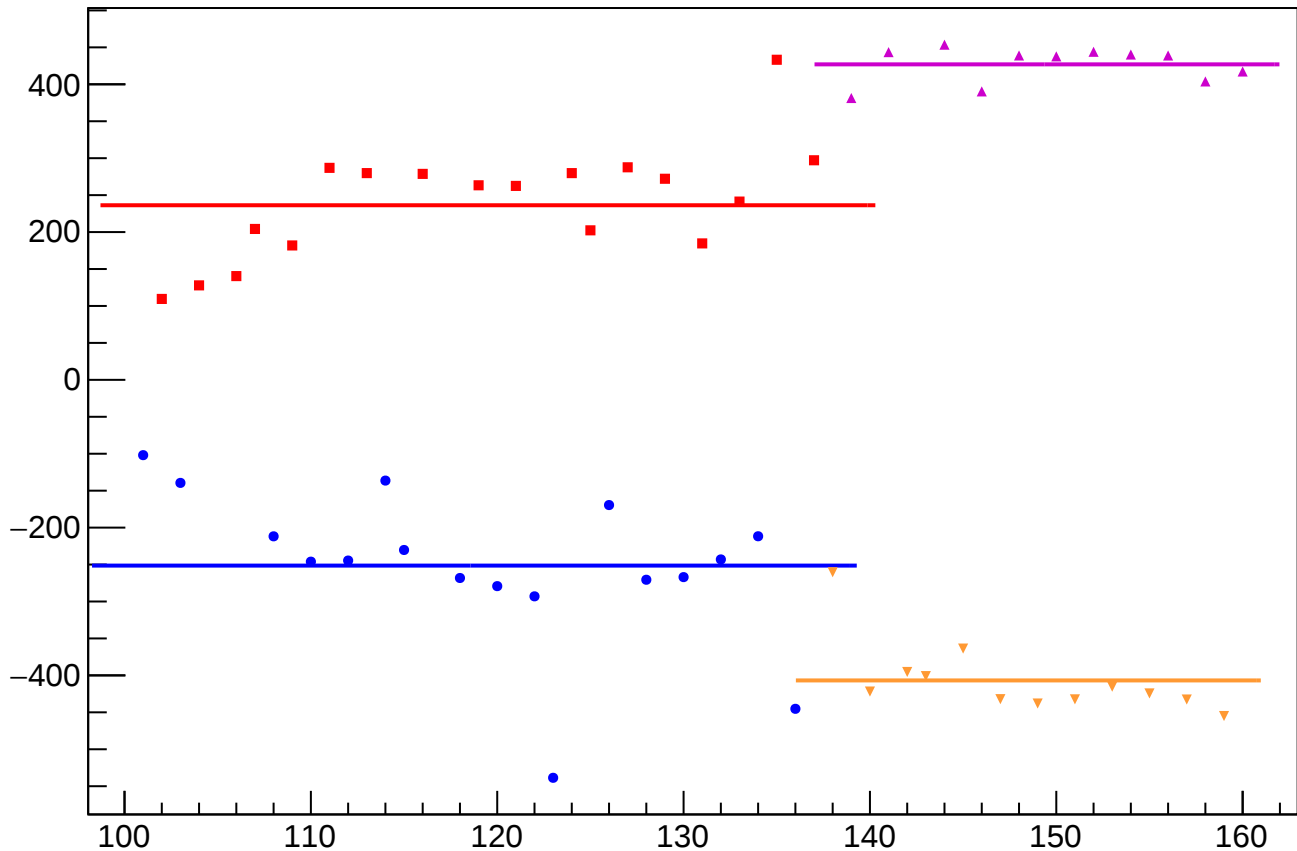
Right:  $45.694 \pm 0.000$   $\chi^2/\text{NDF}$ : 10184097.2/35

In:  $45.694 \pm 0.000$   $\chi^2/\text{NDF}$ : 13182741.5/28

Out:  $56.962 \pm 0.003$   $\chi^2/\text{NDF}$ : 1292134.7/31

All:  $45.694 \pm 0.000$   $\chi^2/\text{NDF}$ : 27425105.4/60

# dit\_4aX\_coil1\_mean vs Slug, Sign Corrected



Right In: -251.407+/-0.000

Left Out: -406.833+/-0.000

Right Out: 236.305+/-0.000

Left In: 426.999+/-0.000

$\chi^2/\text{NDF}$ : 6377716677142803615785313646231420928.0/16

$\chi^2/\text{NDF}$ : 2292767804308975563331061576326184960.0/11

$\chi^2/\text{NDF}$ : 4583669398649017152985031455186878464.0/17

$\chi^2/\text{NDF}$ : 491897519091150809282810233728532480.0/10

Left: 15.515+/-0.000  $\chi^2/\text{NDF}$ : 32290507688952396

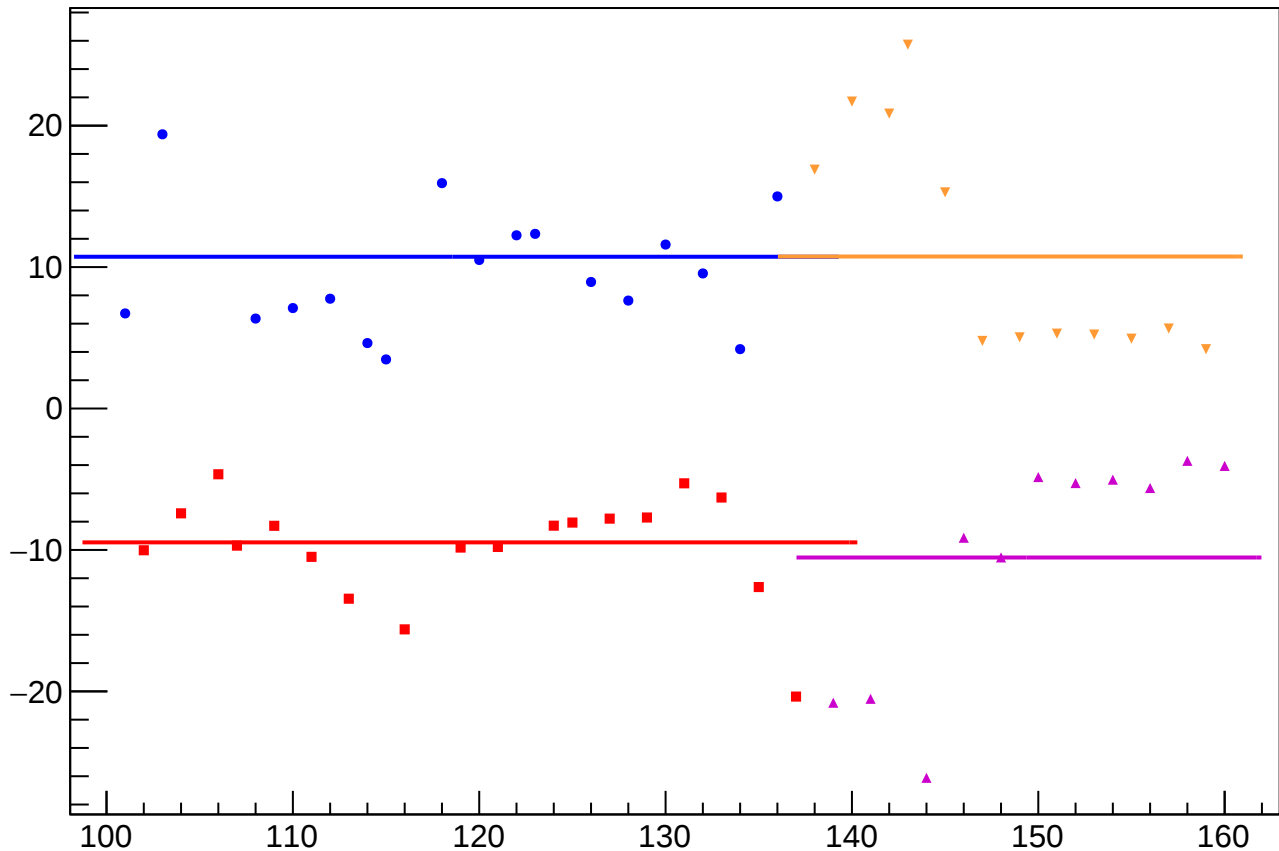
Right: -3.917+/-0.000  $\chi^2/\text{NDF}$ : 9473030910379414

In: 137.624+/-0.000  $\chi^2/\text{NDF}$ : 19003095258773893

Out: -123.678+/-0.000  $\chi^2/\text{NDF}$ : 172412613694126

All: 7.093+/-0.000  $\chi^2/\text{NDF}$ : 41793683043915

dit\_4aX\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 10.731+/-0.000

Left Out: 10.747+/-0.000

Right Out: -9.465+/-0.000

Left In: -10.535+/-0.000

$\chi^2/\text{NDF}$ : 12832156832660883988585211297267712.0/16

$\chi^2/\text{NDF}$ : 52568555520200298220372681258172416.0/11

$\chi^2/\text{NDF}$ : 6964289429474711338503750841008128.0/17

$\chi^2/\text{NDF}$ : 56030306294181725597372333160398848.0/10

Left: -0.032+/-0.000  $\chi^2/\text{NDF}$ : 31712978219852070

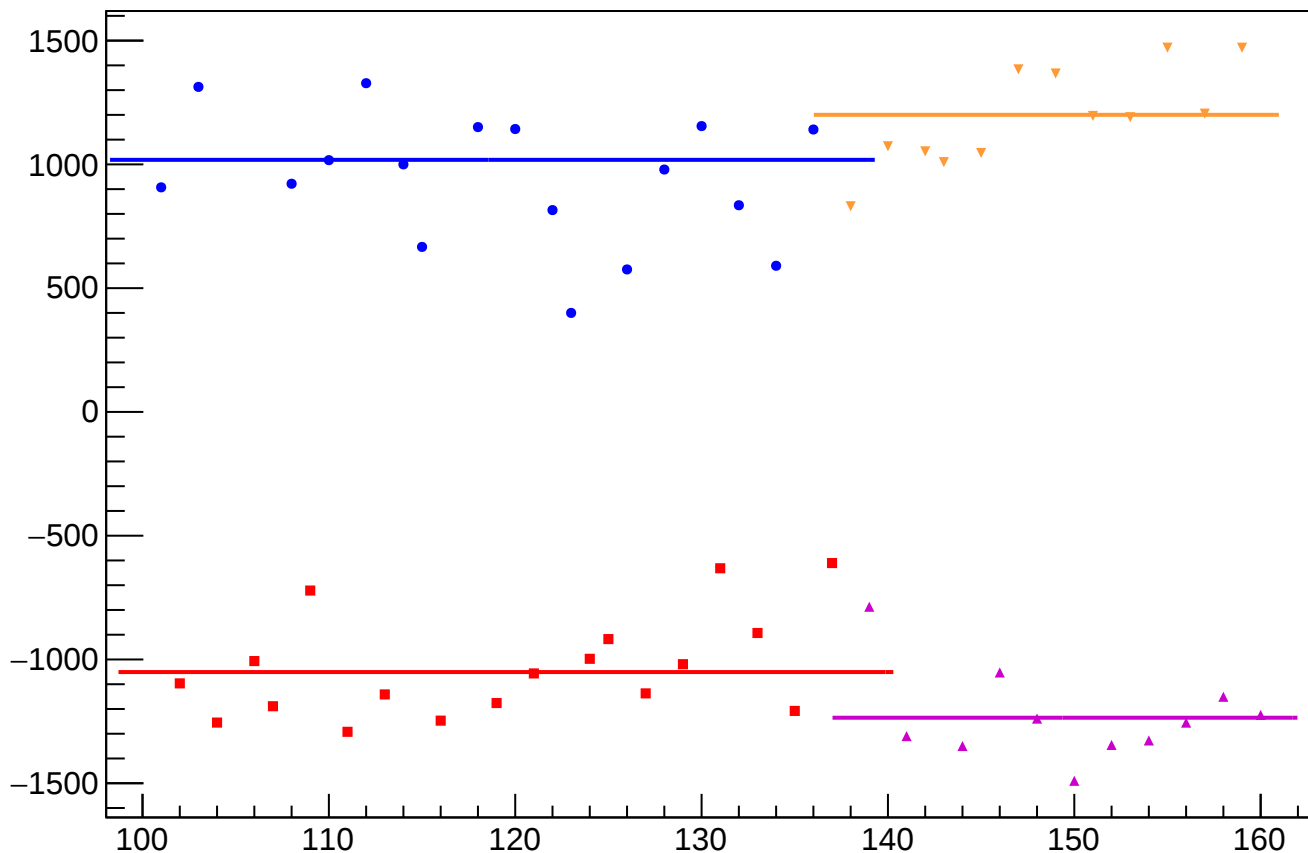
Right: 0.482+/-0.000  $\chi^2/\text{NDF}$ : 16344309482827227

In: -1.464+/-0.000  $\chi^2/\text{NDF}$ : 248837095885974600

Out: 1.848+/-0.000  $\chi^2/\text{NDF}$ : 223032360060445959

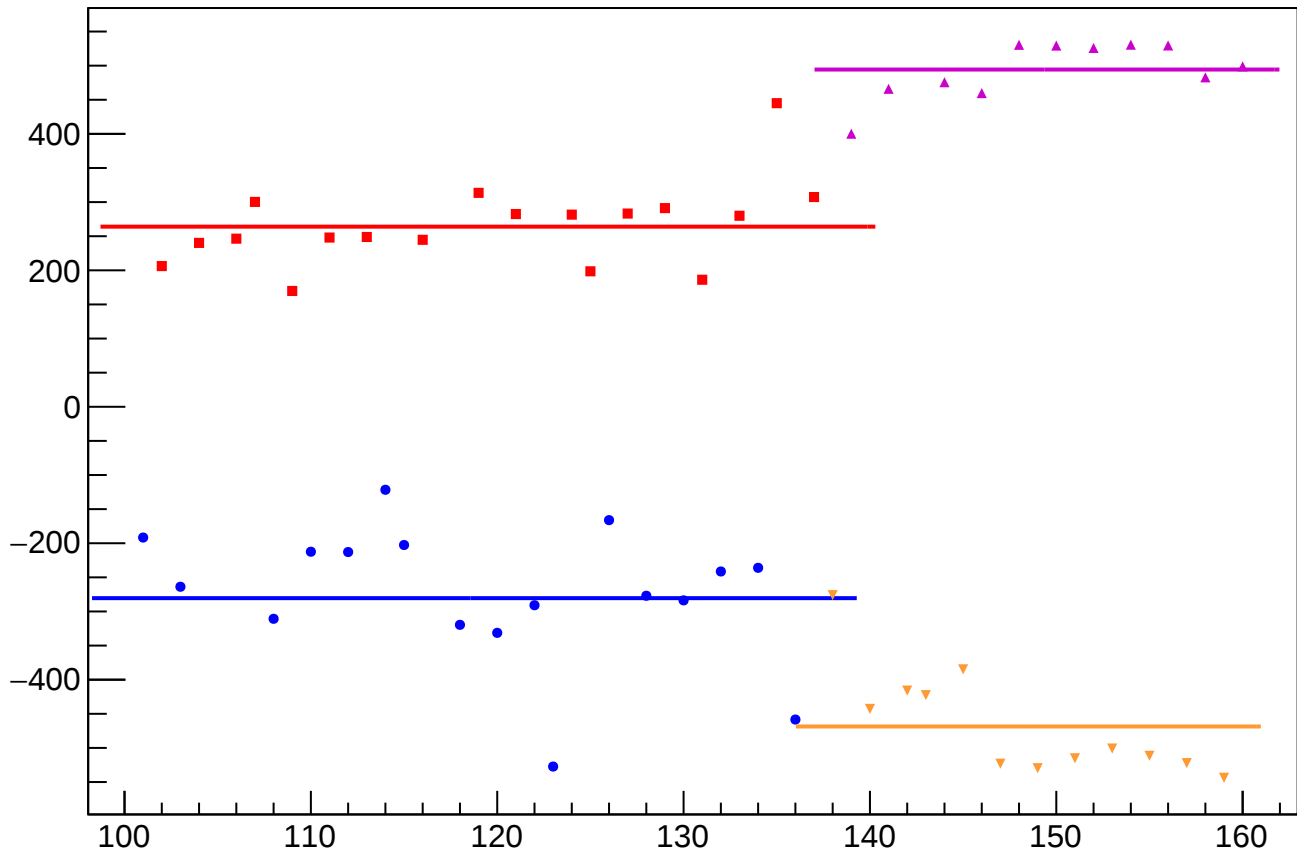
All: 0.191+/-0.000  $\chi^2/\text{NDF}$ : 48078445544445

dit\_4aX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: -33.377+/-0.000              | $\chi^2/\text{NDF}$ : 2794350173420514 |
| Left Out: 1200.293+/-0.000   | $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11 | Right: -31.639+/-0.000             | $\chi^2/\text{NDF}$ : 156759750862946  |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: -273.986+/-0.000               | $\chi^2/\text{NDF}$ : 2083200596416121 |
| Left In: -1235.313+/-0.000   | $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10 | Out: 209.183+/-0.000               | $\chi^2/\text{NDF}$ : 2089011032009014 |
|                              | All: -32.624+/-0.000                                              | $\chi^2/\text{NDF}$ : 436195009310 |                                        |

# dit\_4eX\_coil1\_mean vs Slug, Sign Corrected



Right In: -280.488+/-0.000

Left Out: -468.575+/-0.000

Right Out: 264.038+/-0.000

Left In: 494.291+/-0.000

$\chi^2/\text{NDF}$ : 5126630238526976320868749941319663616.0/16

$\chi^2/\text{NDF}$ : 5376900160405137659978716094572527616.0/11

$\chi^2/\text{NDF}$ : 2950904189133891581840816046652522496.0/17

$\chi^2/\text{NDF}$ : 1453739025414967917322489885861347328.0/10

Left: 19.131+/-0.000  $\chi^2/\text{NDF}$ : 43369236595936528

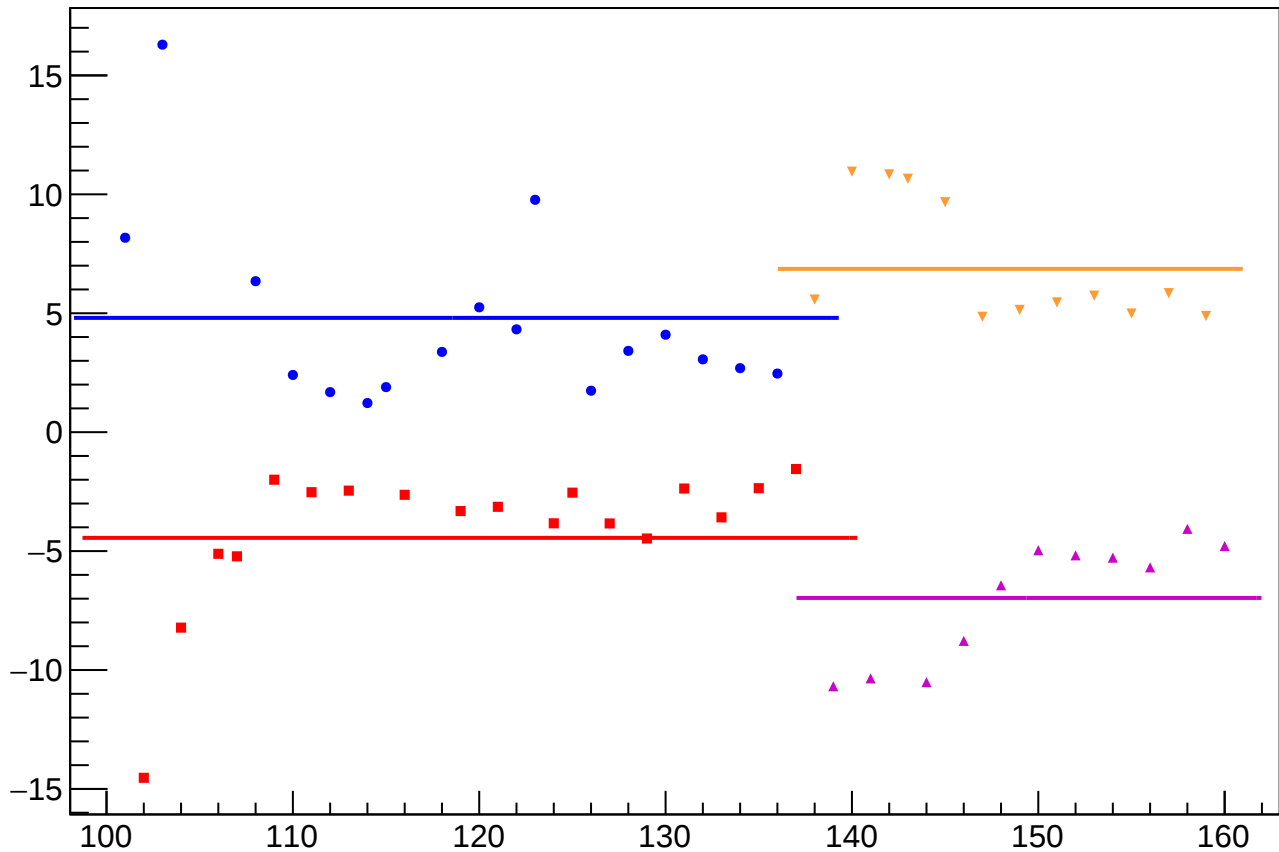
Right: -4.167+/-0.000  $\chi^2/\text{NDF}$ : 1124995033891218

In: 163.807+/-0.000  $\chi^2/\text{NDF}$ : 24547656580890999

Out: -146.027+/-0.000  $\chi^2/\text{NDF}$ : 223127037858541

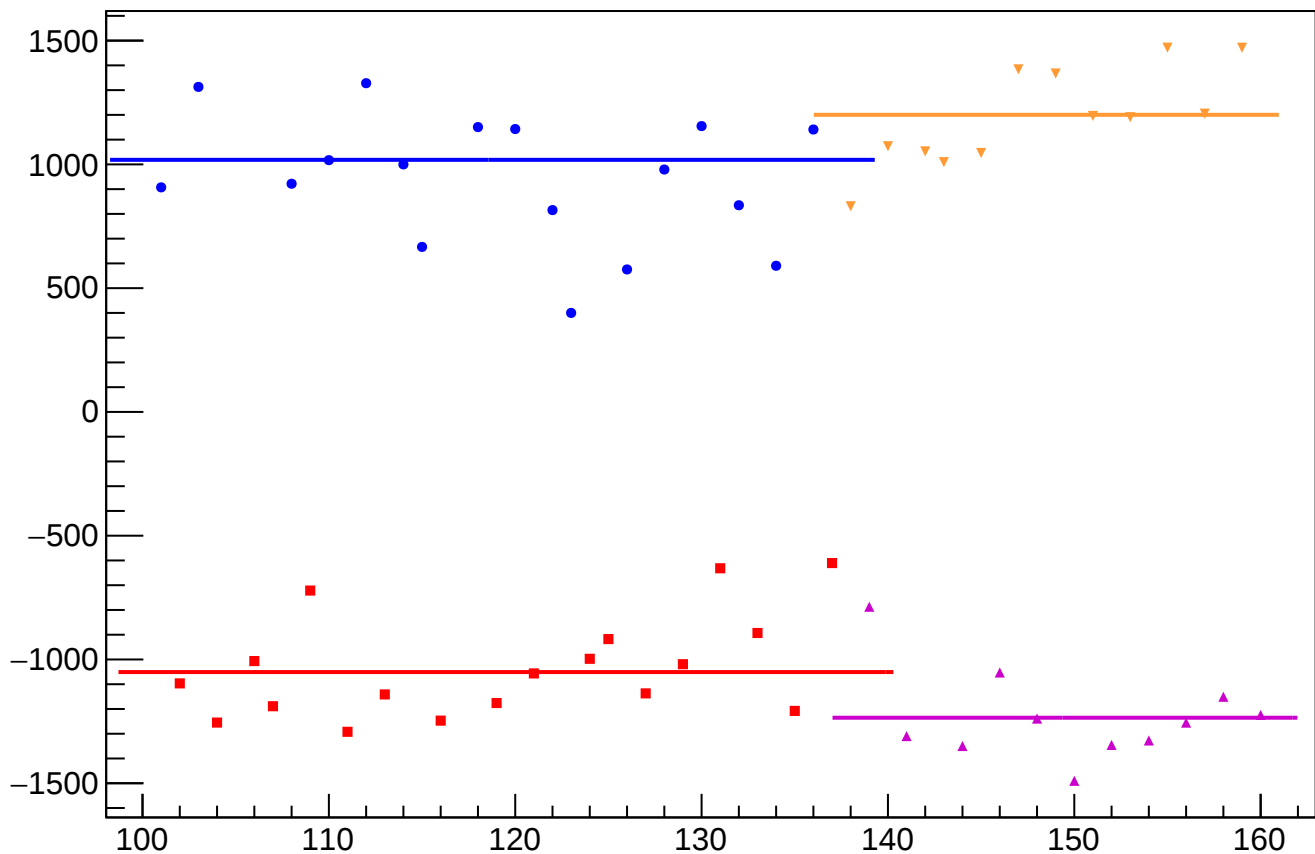
All: 9.033+/-0.000  $\chi^2/\text{NDF}$ : 54662520345172

# dit\_4eX\_coil1\_err\_mean vs Slug, Sign Corrected



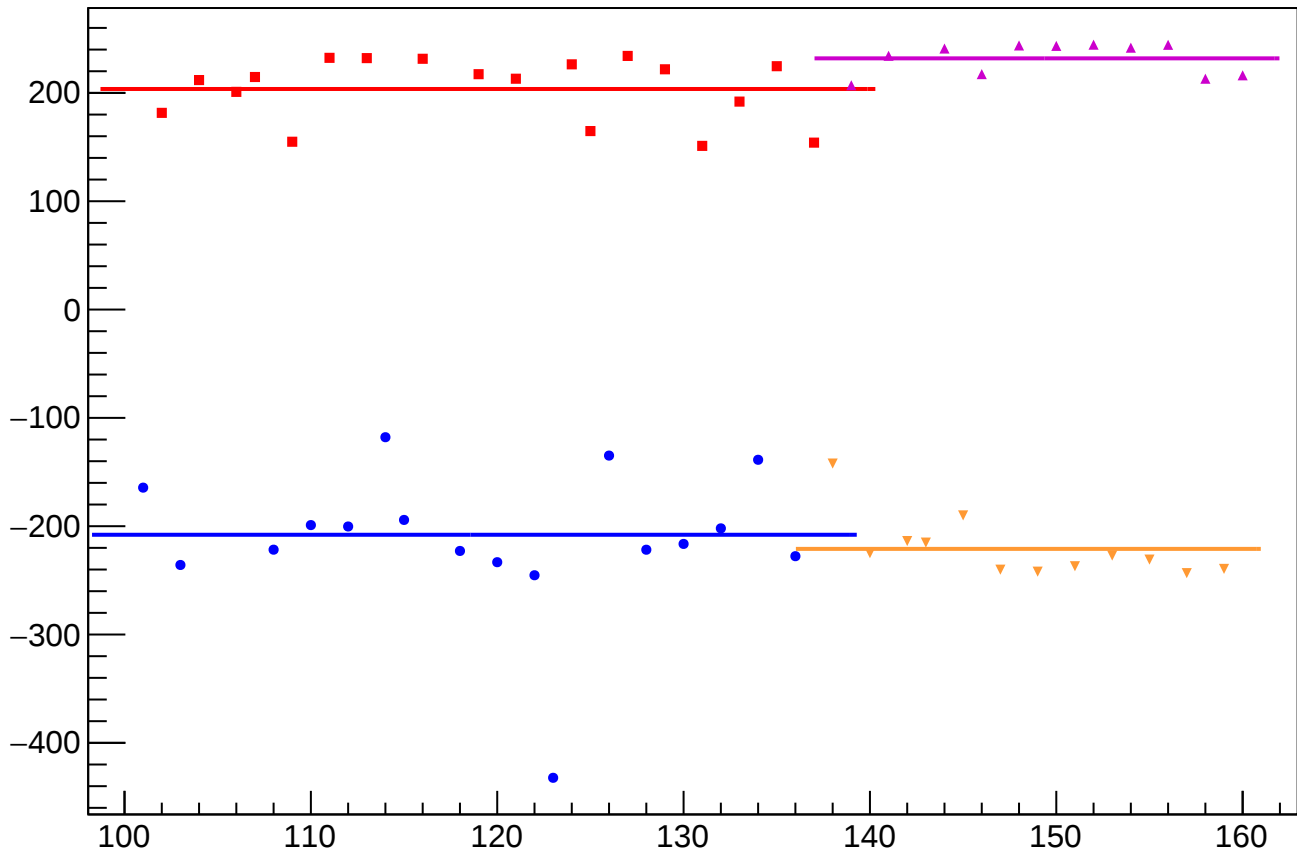
Right In:  $4.806 \pm 0.000$   $\chi^2/\text{NDF}: 10922956451109492621931429310234624.0/16$   
 Left Out:  $6.866 \pm 0.000$   $\chi^2/\text{NDF}: 5299669563995653642636095012208640.0/11$   
 Right Out:  $-4.443 \pm 0.000$   $\chi^2/\text{NDF}: 8238698902114437843582467079929856.0/17$   
 Left In:  $-6.969 \pm 0.000$   $\chi^2/\text{NDF}: 5610929853594389107325212135784448.0/10$   
 All:  $-0.032 \pm 0.000$   $\chi^2/\text{NDF}: 1483821465904$

dit\_4eX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514  
 Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 1200.293+/-0.000  $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -1235.313+/-0.000  $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_11X12X\_coil1\_mean vs Slug, Sign Corrected



Right In: -207.905+/-0.000

Left Out: -220.938+/-0.000

Right Out: 203.621+/-0.000

Left In: 231.896+/-0.000

$\chi^2/\text{NDF}$ : 932229169633108948090208893374824448.0/16

$\chi^2/\text{NDF}$ : 725702280929192018663060859751759872.0/11

$\chi^2/\text{NDF}$ : 555366082114711816530063438779514880.0/17

$\chi^2/\text{NDF}$ : 183329680516479381507897892871864320.0/10

Left: 8.429+/-0.000  $\chi^2/\text{NDF}$ : 953222302961658426

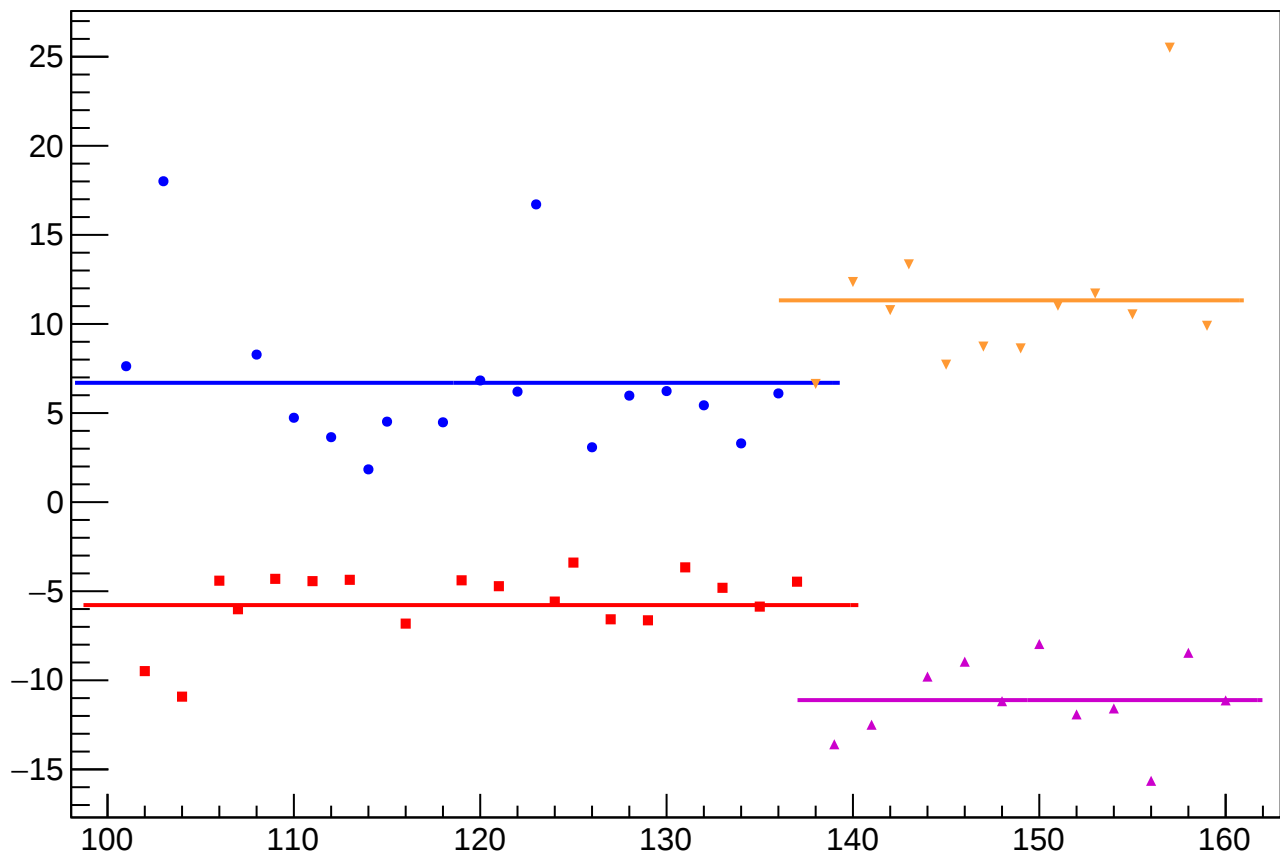
Right: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 61129354546867051

In: 44.298+/-0.000  $\chi^2/\text{NDF}$ : 780934056728326017

Out: -34.017+/-0.000  $\chi^2/\text{NDF}$ : 7341842705768315

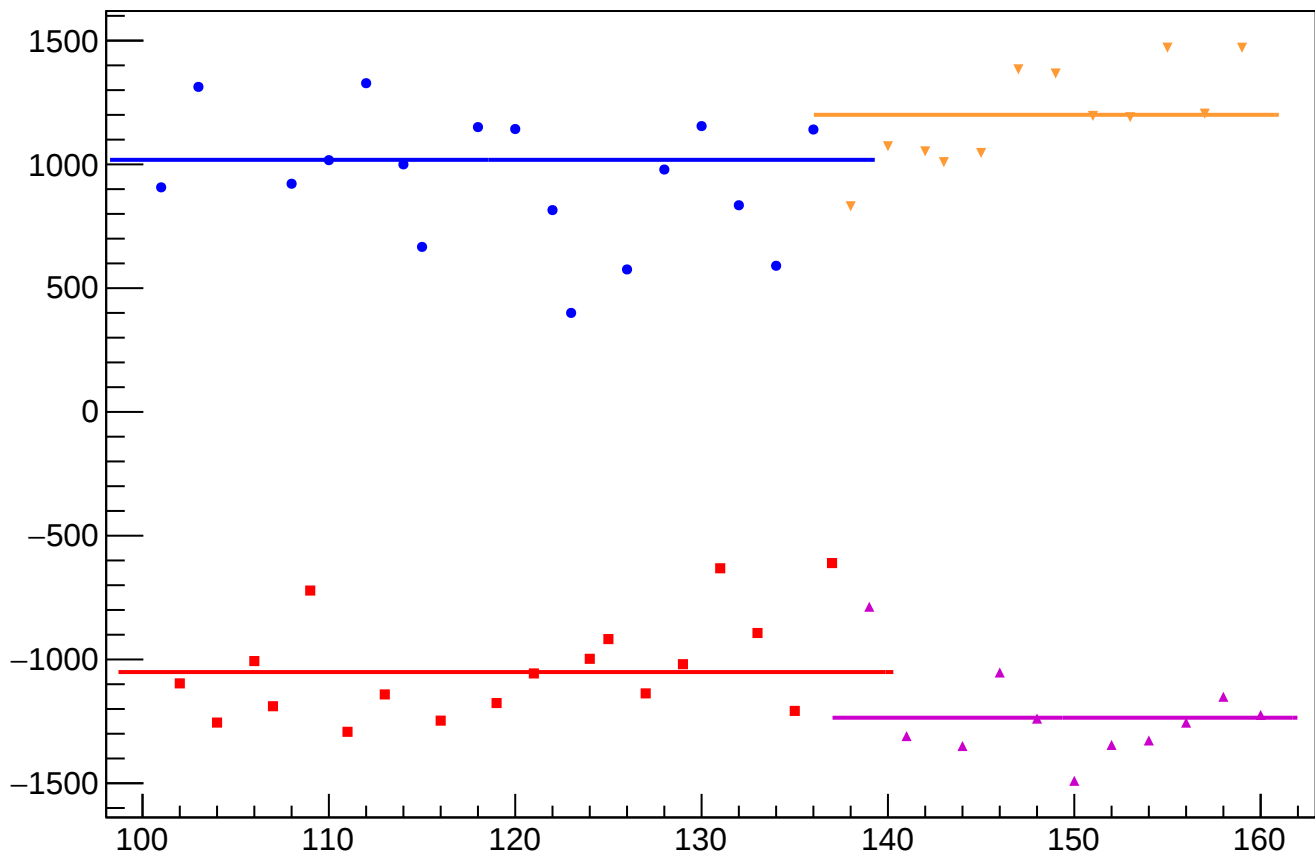
All: 5.177+/-0.000  $\chi^2/\text{NDF}$ : 15649654139583

dit\_11X12X\_coil1\_err\_mean vs Slug, Sign Corrected



Right In:  $6.697 \pm 0.000$   $\chi^2/\text{NDF}: 10220265362684500644667484757032960.0/16$   
 Left Out:  $11.325 \pm 0.000$   $\chi^2/\text{NDF}: 19360042625652449313367034255376384.0/11$   
 Right Out:  $-5.778 \pm 0.000$   $\chi^2/\text{NDF}: 3154580715579075896881670619398144.0/17$   
 Left In:  $-11.111 \pm 0.000$   $\chi^2/\text{NDF}: 4392167277443947568386278164529152.0/10$   
 All:  $0.137 \pm 0.000$   $\chi^2/\text{NDF}: 32384583598296$

dit\_11X12X\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

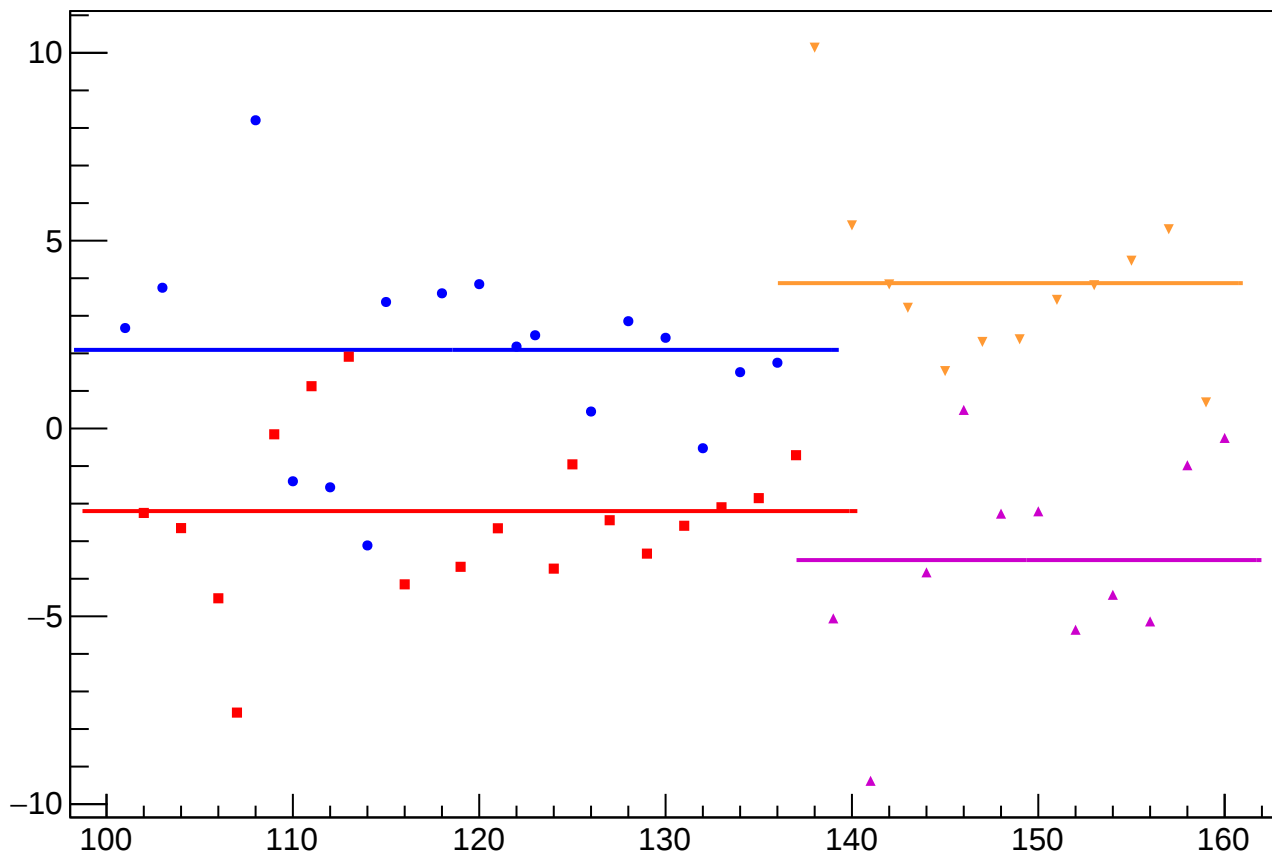
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

dit\_4aY\_coil1\_mean vs Slug, Sign Corrected



Right In:  $2.093 \pm 0.000$

$\chi^2/\text{NDF}: 3708588340032367175525218060861440.0/16$

Left Out:  $3.870 \pm 0.000$

$\chi^2/\text{NDF}: 5096895495074779754701121480818688.0/11$

Right Out:  $-2.199 \pm 0.000$

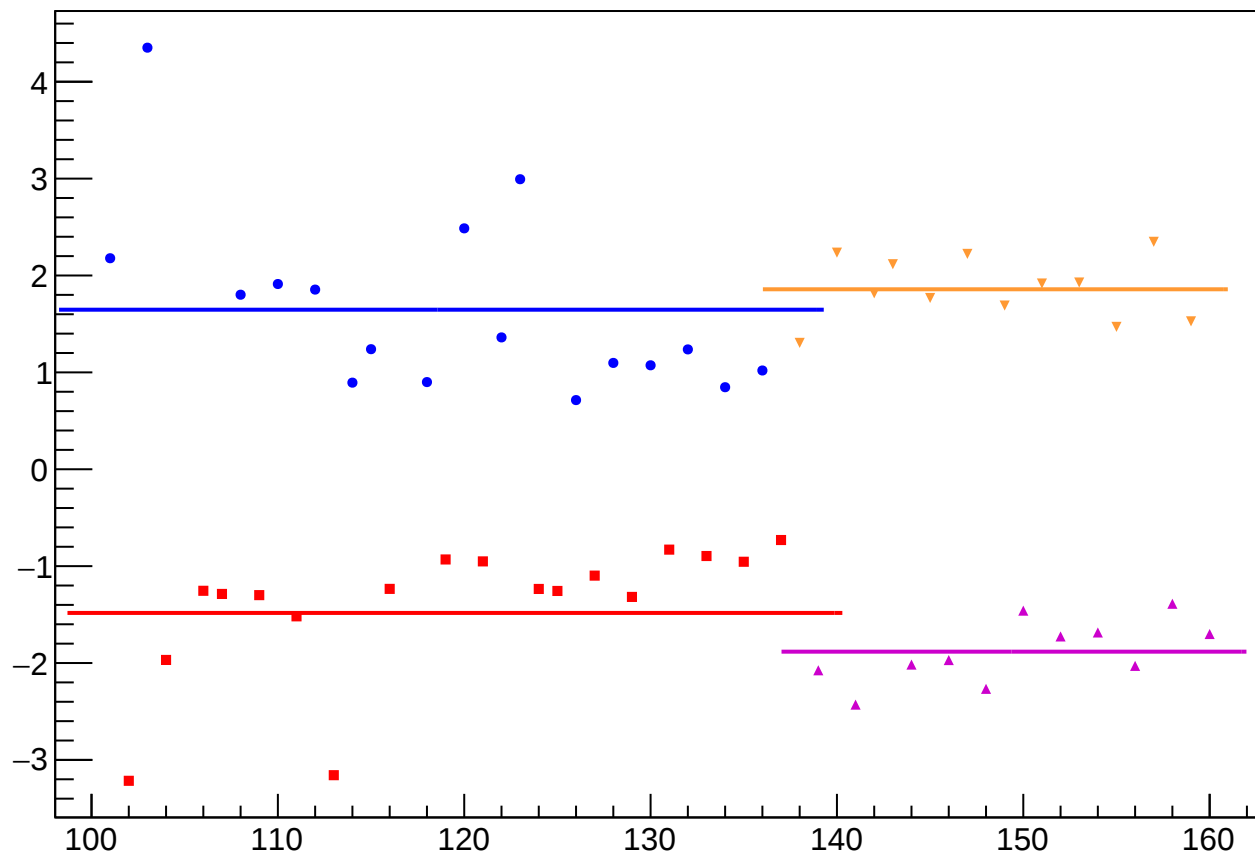
$\chi^2/\text{NDF}: 3107113733134423203865144181391360.0/17$

Left In:  $-3.503 \pm 0.000$

$\chi^2/\text{NDF}: 6729958277549549509263051005624320.0/10$

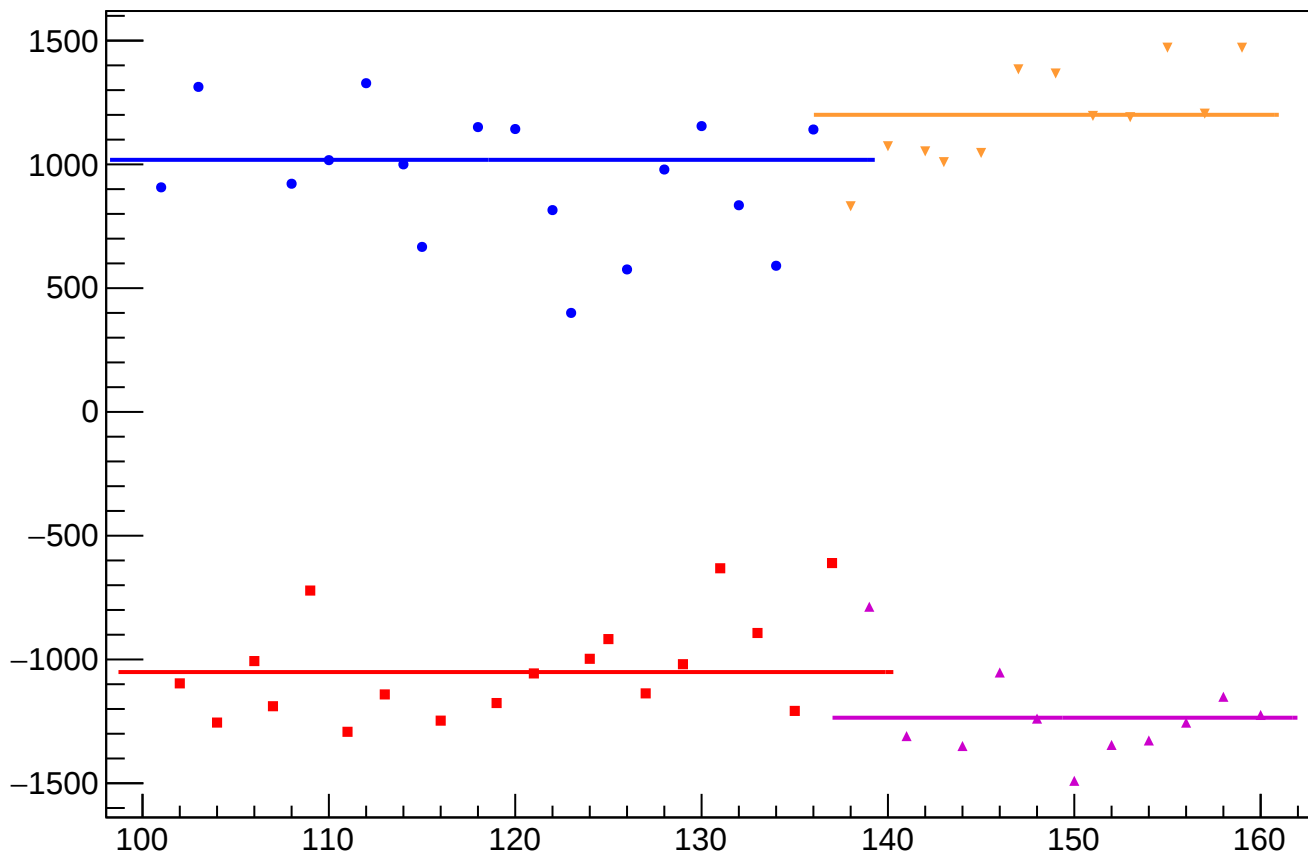
Left:  $0.135 \pm 0.000$   $\chi^2/\text{NDF}: 368509410294214663.0/16$   
 Right:  $-0.085 \pm 0.000$   $\chi^2/\text{NDF}: 1330172036915898.0/11$   
 In:  $-1.116 \pm 0.000$   $\chi^2/\text{NDF}: 228997943130651727.0/17$   
 Out:  $1.198 \pm 0.000$   $\chi^2/\text{NDF}: 229403467126811658.0/10$   
 All:  $0.040 \pm 0.000$   $\chi^2/\text{NDF}: 50191355697272.0/16$

dit\_4aY\_coil1\_err\_mean vs Slug, Sign Corrected



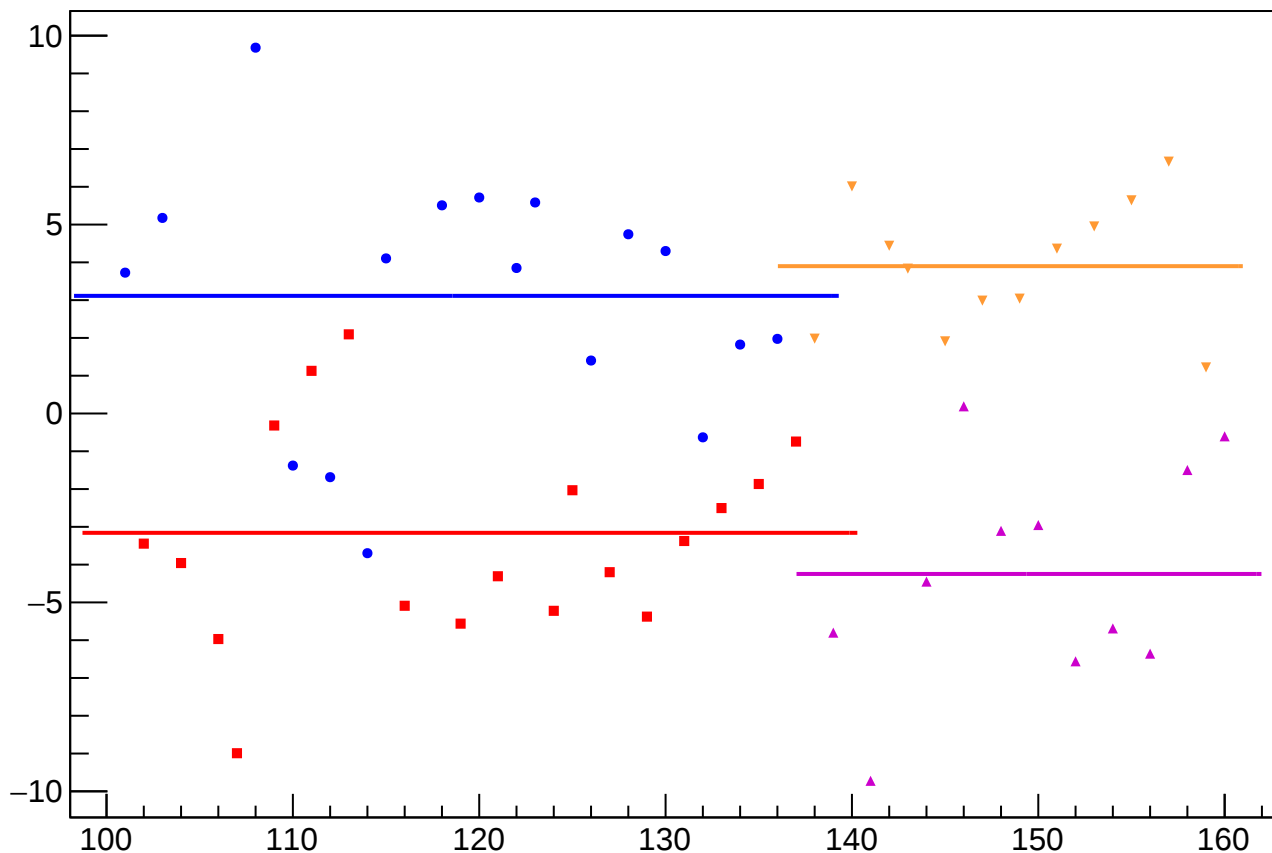
Right In:  $1.647 \pm 0.000$   $\chi^2/\text{NDF}: 651088572320131635658625105526784.0/16$   
 Left Out:  $1.858 \pm 0.000$   $\chi^2/\text{NDF}: 92819096352183662549607808761856.0/11$   
 Right Out:  $-1.483 \pm 0.000$   $\chi^2/\text{NDF}: 413770473105203088009551048343552.0/17$   
 Left In:  $-1.883 \pm 0.000$   $\chi^2/\text{NDF}: 89198060548496721731654669828096.0/10$   
 All:  $0.005 \pm 0.000$   $\chi^2/\text{NDF}: 11145646478182$

dit\_4aY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



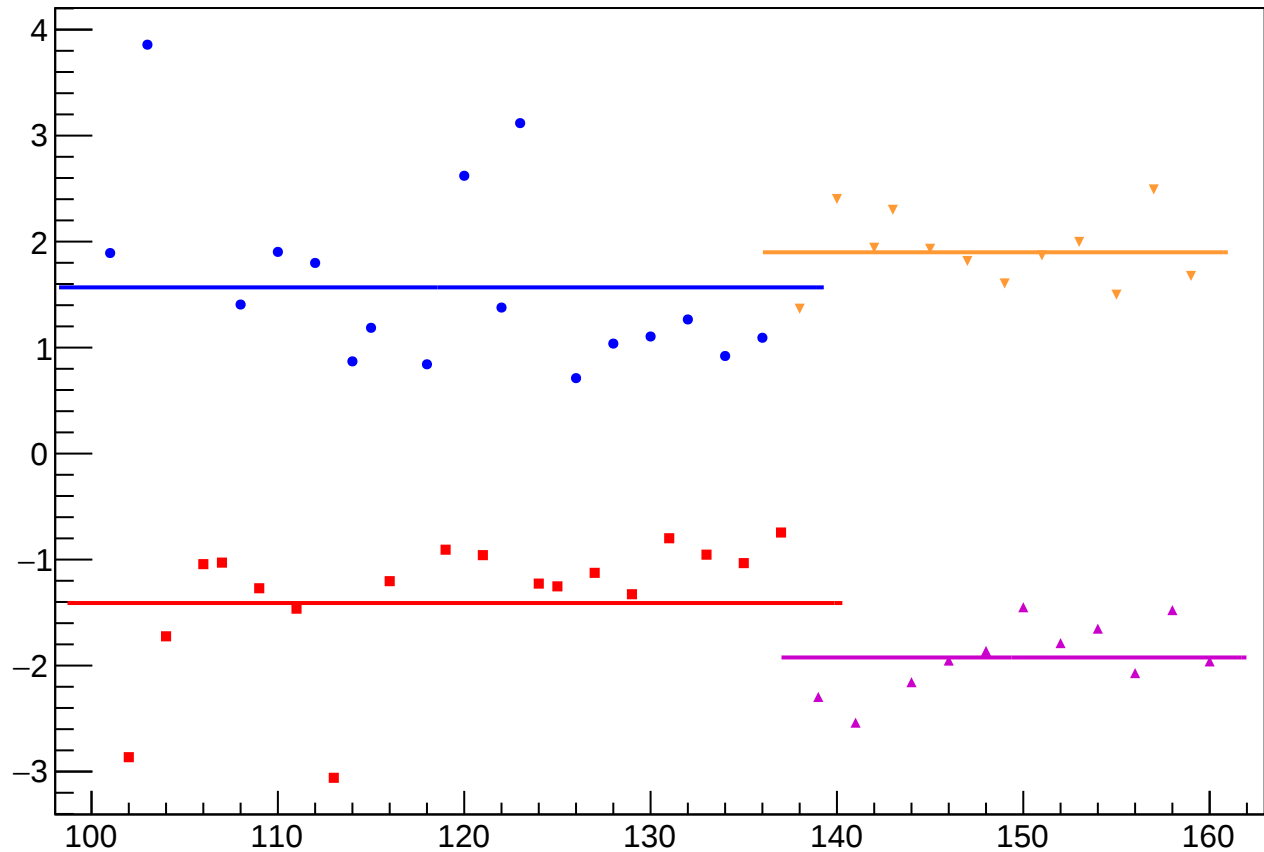
|                              |                                                                   |                        |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: -33.377+/-0.000  | $\chi^2/\text{NDF}$ : 2794350173420514 |
| Left Out: 1200.293+/-0.000   | $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11 | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946  |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: -273.986+/-0.000   | $\chi^2/\text{NDF}$ : 2083200596416121 |
| Left In: -1235.313+/-0.000   | $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10 | Out: 209.183+/-0.000   | $\chi^2/\text{NDF}$ : 2089011032009014 |
|                              |                                                                   | All: -32.624+/-0.000   | $\chi^2/\text{NDF}$ : 436195009310     |

# dit\_4eY\_coil1\_mean vs Slug, Sign Corrected



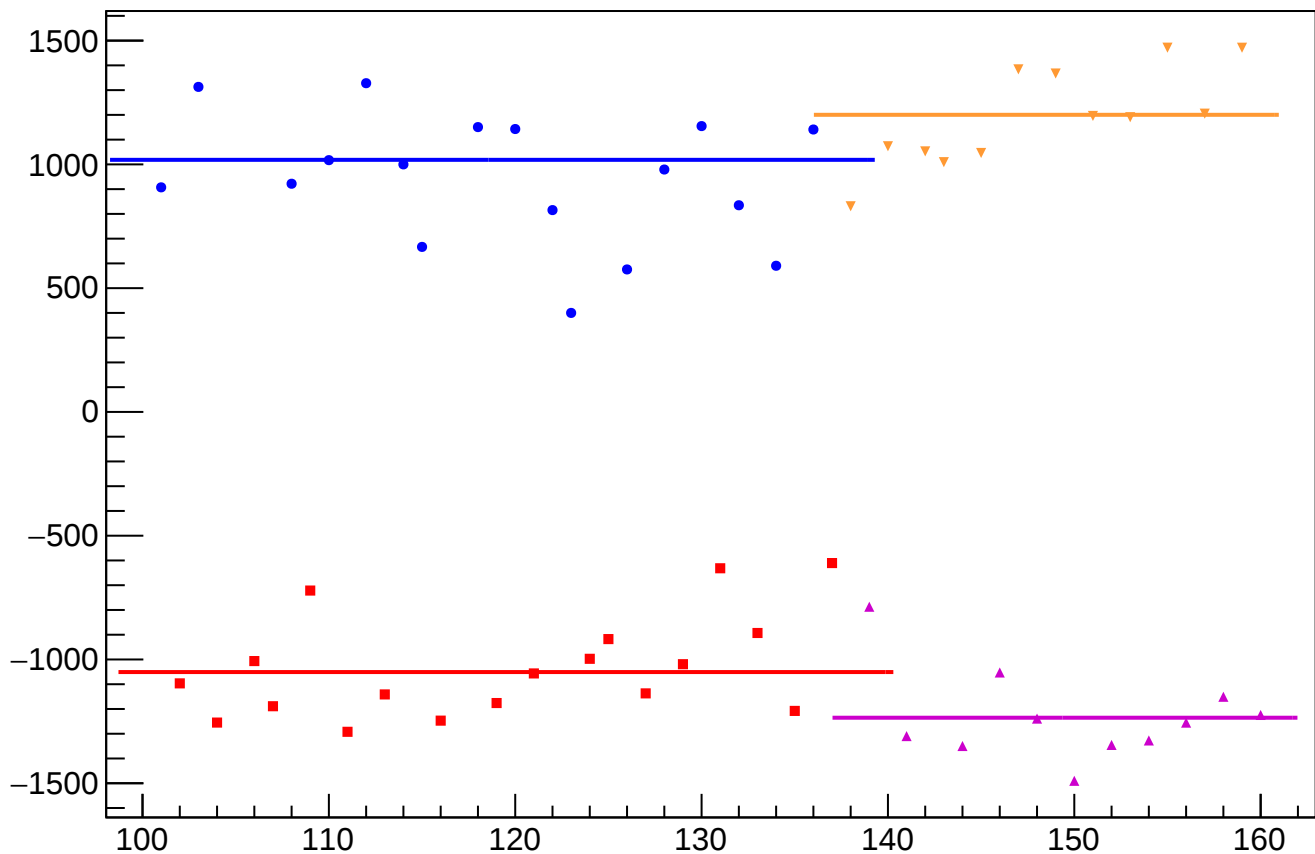
Left: -0.227 +/- 0.000  $\chi^2/\text{NDF}$ : 40514341492675254  
 Right In: 3.113 +/- 0.000  $\chi^2/\text{NDF}$ : 5969364473683453458180416326336512.0/16  
 Right: -0.069 +/- 0.000  $\chi^2/\text{NDF}$ : 2483579584133620  
 Left Out: 3.899 +/- 0.000  $\chi^2/\text{NDF}$ : 2596063476262392643786187397398528.0/11  
 In: -1.107 +/- 0.000  $\chi^2/\text{NDF}$ : 348931349722056987  
 Right Out: -3.158 +/- 0.000  $\chi^2/\text{NDF}$ : 5013186540103138237647291198472192.0/17  
 Out: 0.792 +/- 0.000  $\chi^2/\text{NDF}$ : 275445249090740071  
 Left In: -4.247 +/- 0.000  $\chi^2/\text{NDF}$ : 7362557296783828788324476360065024.0/10  
 All: -0.159 +/- 0.000  $\chi^2/\text{NDF}$ : 6536999261732

dit\_4eY\_coil1\_err\_mean vs Slug, Sign Corrected



Right In:  $1.568 \pm 0.000$   $\chi^2/\text{NDF}$ : 496968559591870447992286312660992.0/16  
 Left Out:  $1.899 \pm 0.000$   $\chi^2/\text{NDF}$ : 105245400634415170842187400216576.0/11  
 Right Out:  $-1.410 \pm 0.000$   $\chi^2/\text{NDF}$ : 328993477679498579442129623318528.0/17  
 Left In:  $-1.924 \pm 0.000$   $\chi^2/\text{NDF}$ : 95242962939028869202536503967744.0/10  
 All:  $0.004 \pm 0.000$   $\chi^2/\text{NDF}$ : 10885569689706

dit\_4eY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

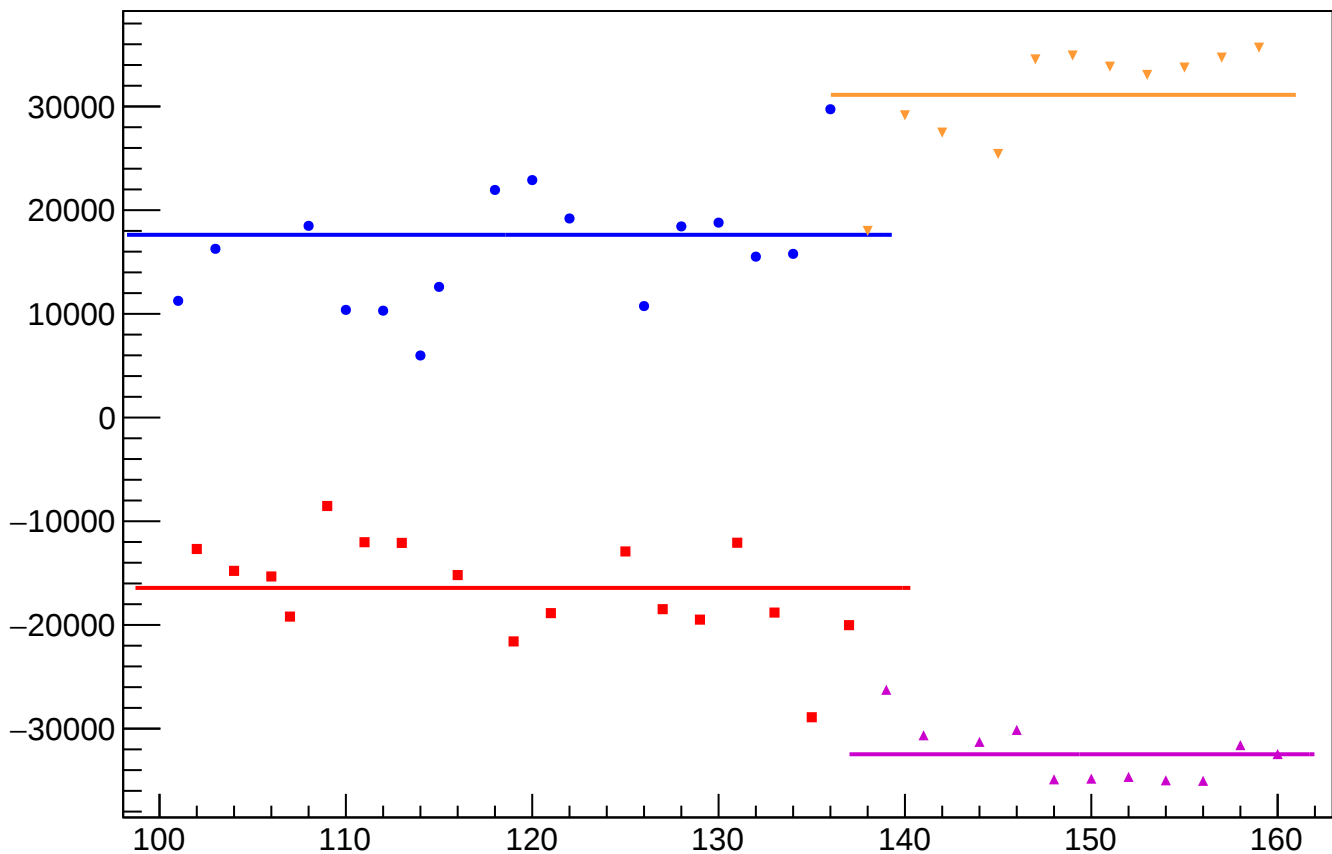
$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

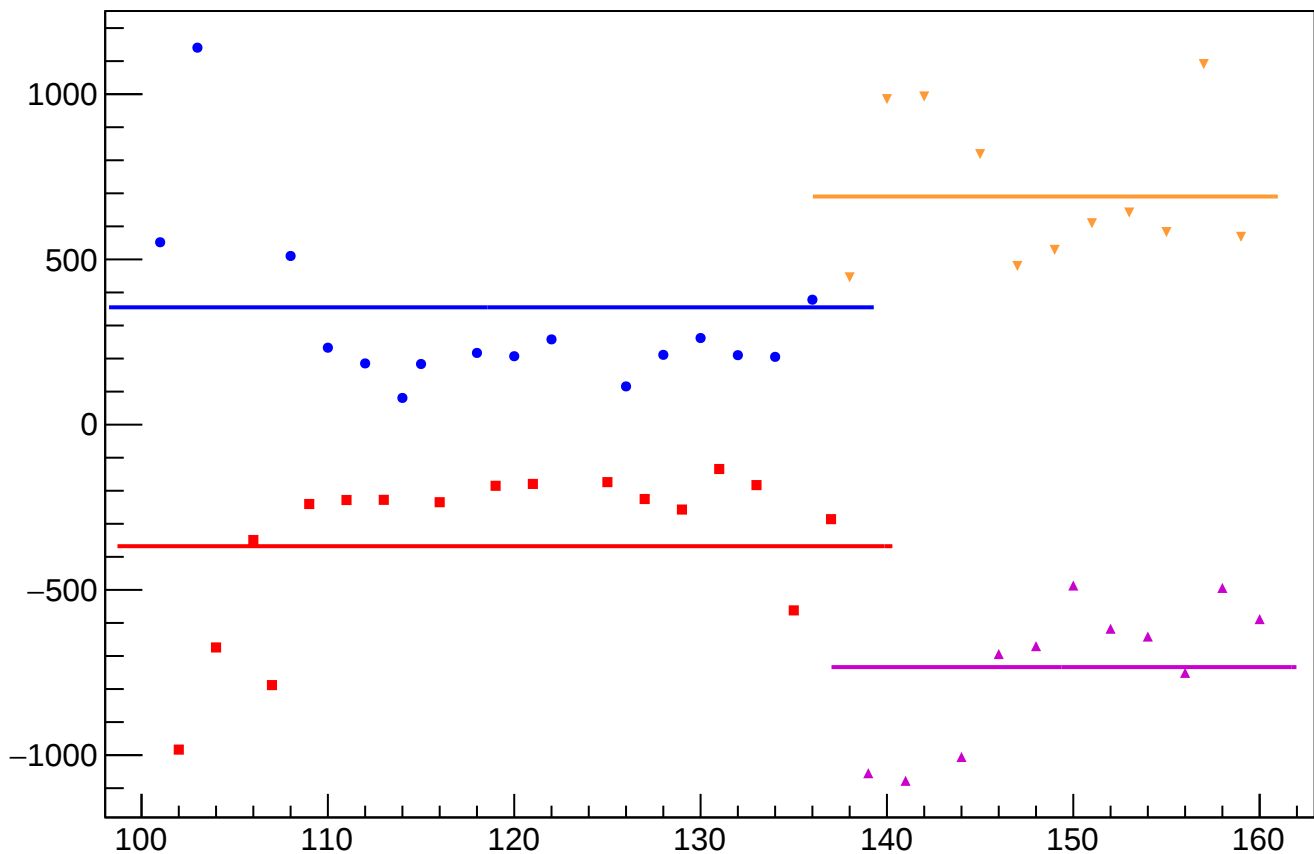
Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514  
 Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946  
 In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121  
 Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

dit\_usl\_coil1\_mean vs Slug, Sign Corrected



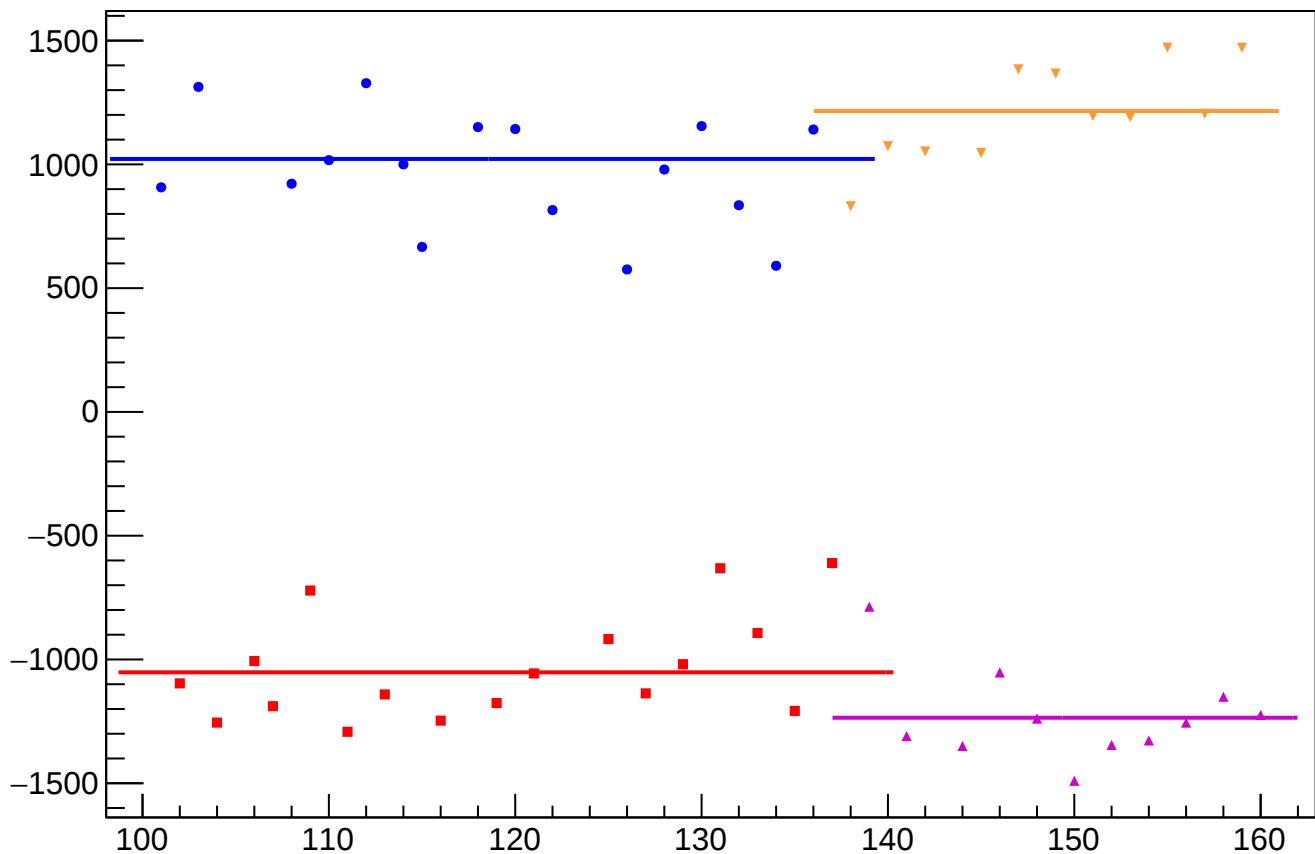
Right In: 17623.415+/-0.000  $\chi^2/\text{NDF}$ : 26214852160510248108396540611197117923328.0/15  
 Left Out: 31121.908+/-0.000  $\chi^2/\text{NDF}$ : 23059902976455903047894835429096743239680.0/10  
 Right Out: -16427.279+/-0.000  $\chi^2/\text{NDF}$ : 17497664990525804314439933995132913713152.0/16  
 Left In: -32472.045+/-0.000  $\chi^2/\text{NDF}$ : 6559386601849495088258310306923846565888.0/10  
 All: -1088.799+/-0.000  $\chi^2/\text{NDF}$ : 2272376029

# dit\_usl\_coil1\_err\_mean vs Slug, Sign Corrected



Left: -58.130 +/- 0.000  $\chi^2/\text{NDF}$ : 9743117138498523  
 Right: -9.212 +/- 0.000  $\chi^2/\text{NDF}$ : 2794166429678019  
 In: 270.749 +/- 0.000  $\chi^2/\text{NDF}$ : 5597253612487438  
 Out: 209.612 +/- 0.000  $\chi^2/\text{NDF}$ : 5133499304109703  
 All: -36.638 +/- 0.000  $\chi^2/\text{NDF}$ : 125559457835

dit\_usl\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1021.988+/-0.000

$\chi^2/\text{NDF}$ : 31240102732297466680062358937095110656.0/15

Left Out: 1215.518+/-0.000

$\chi^2/\text{NDF}$ : 31376780831313540387850491409995923456.0/10

Right Out: -1051.912+/-0.000

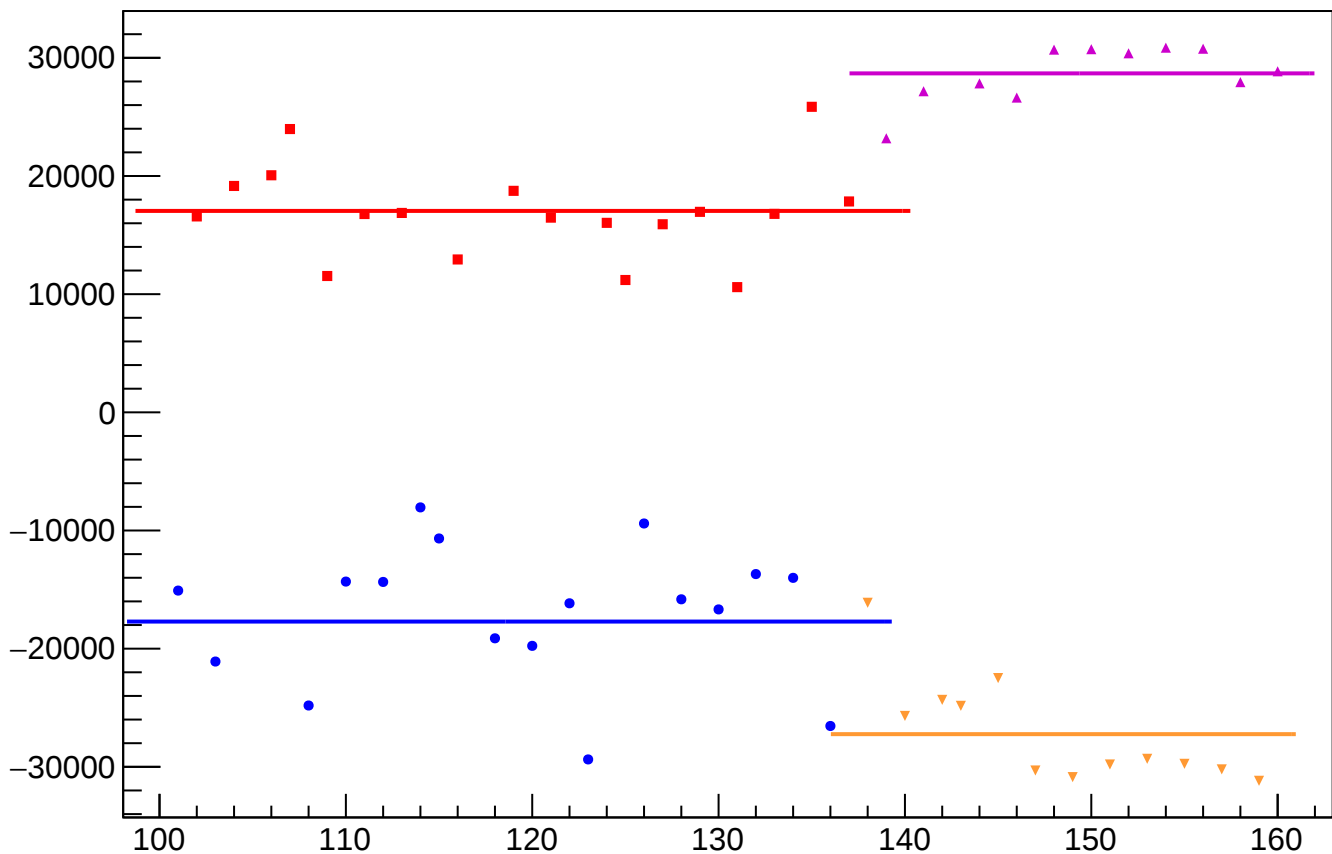
$\chi^2/\text{NDF}$ : 26857120331966502825045576618889707520.0/16

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

All: -50.947+/-0.000  $\chi^2/\text{NDF}$ : 427442302234

# dit\_usr\_coil1\_mean vs Slug, Sign Corrected



Right In: -17706.432+/-0.000

Left Out: -27234.311+/-0.000

Right Out: 17045.413+/-0.000

Left In: 28684.462+/-0.000

$\chi^2/\text{NDF}$ : 17446583920719856354509663675734298722304.0/16

$\chi^2/\text{NDF}$ : 17501423858802312277149406811030835691520.0/11

$\chi^2/\text{NDF}$ : 10956517506901040130363493382016229965824.0/17

$\chi^2/\text{NDF}$ : 4838740363214091105444424537307038613504.0/10

Left: 1089.367+/-0.000  $\chi^2/\text{NDF}$ : 146203735628792

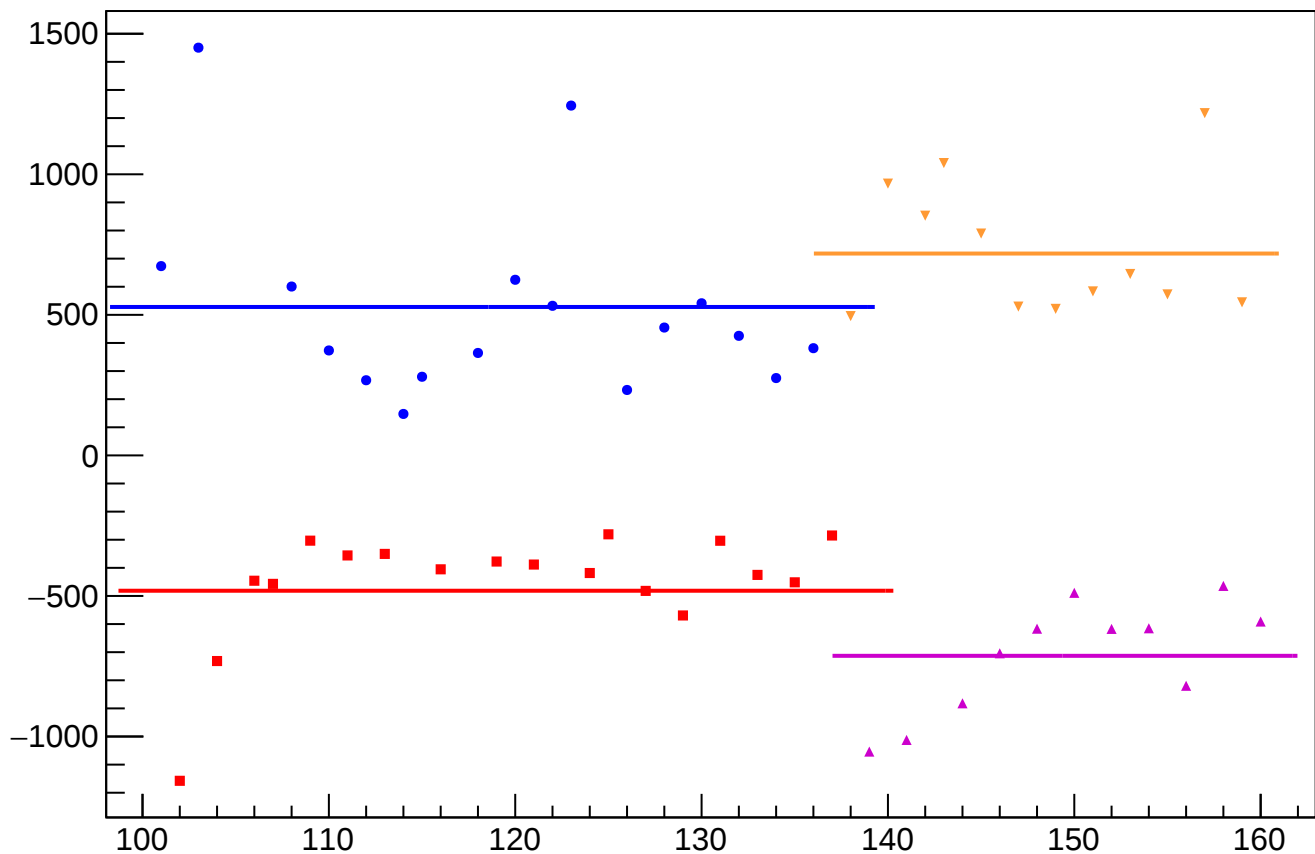
Right: -71.535+/-0.000  $\chi^2/\text{NDF}$ : 453717668983601

In: 8896.336+/-0.000  $\chi^2/\text{NDF}$ : 8787689036344538

Out: -7739.235+/-0.000  $\chi^2/\text{NDF}$ : 81313997076269

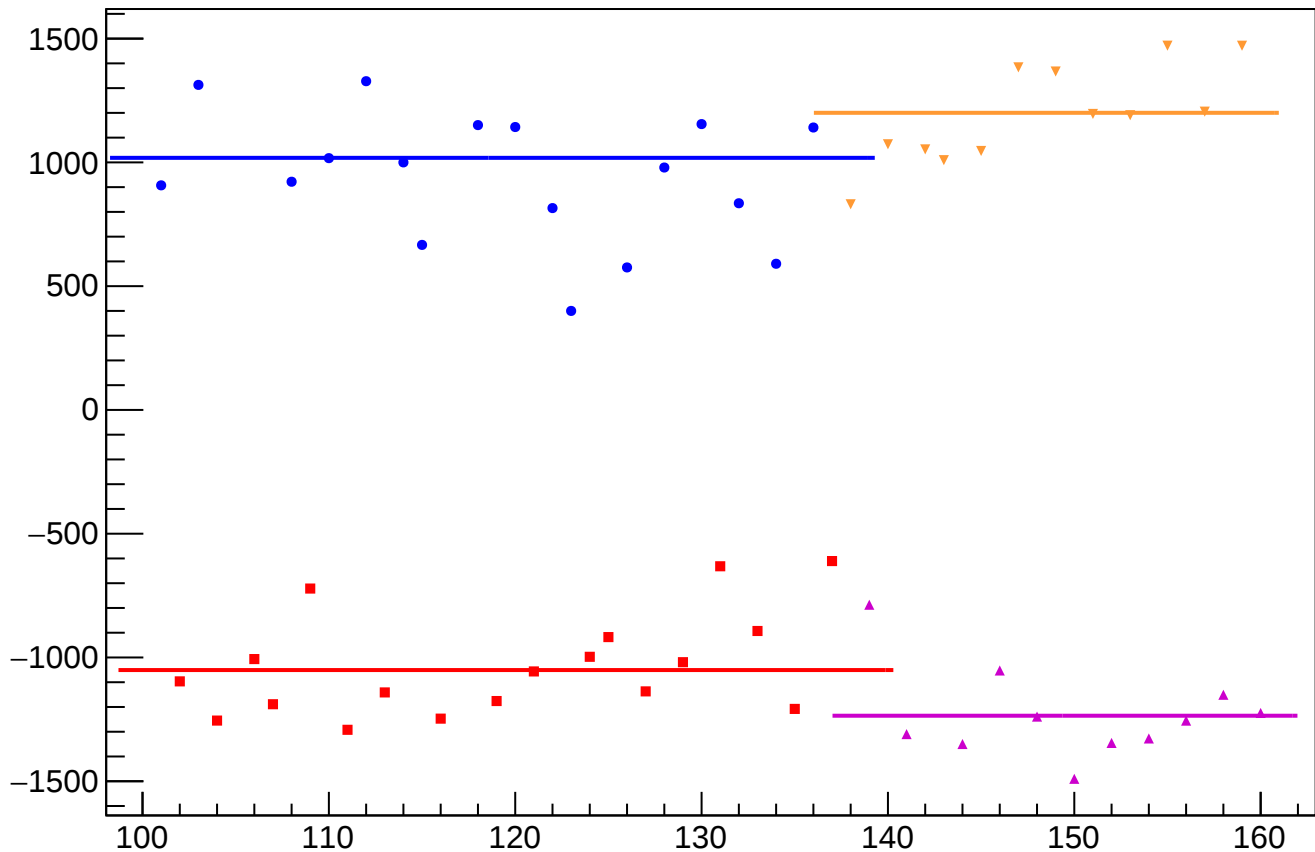
All: 586.226+/-0.000  $\chi^2/\text{NDF}$ : 191683093358

dit\_usr\_coil1\_err\_mean vs Slug, Sign Corrected



Left:  $-6.763 \pm 0.000$   $\chi^2/\text{NDF}: 10241293402202256$   
 Right In:  $528.041 \pm 0.000$   $\chi^2/\text{NDF}: 69659723827653646879006199384029265920.0/16$   
 Left Out:  $718.075 \pm 0.000$   $\chi^2/\text{NDF}: 47539185486125031464503975982300921856.0/11$   
 Right Out:  $-481.423 \pm 0.000$   $\chi^2/\text{NDF}: 37781807344960782949995964438094544896.0/17$   
 Left In:  $-712.956 \pm 0.000$   $\chi^2/\text{NDF}: 33715682233034029284600696449779367936.0/10$   
 All:  $3.010 \pm 0.000$   $\chi^2/\text{NDF}: 14908458943578$

dit\_usr\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

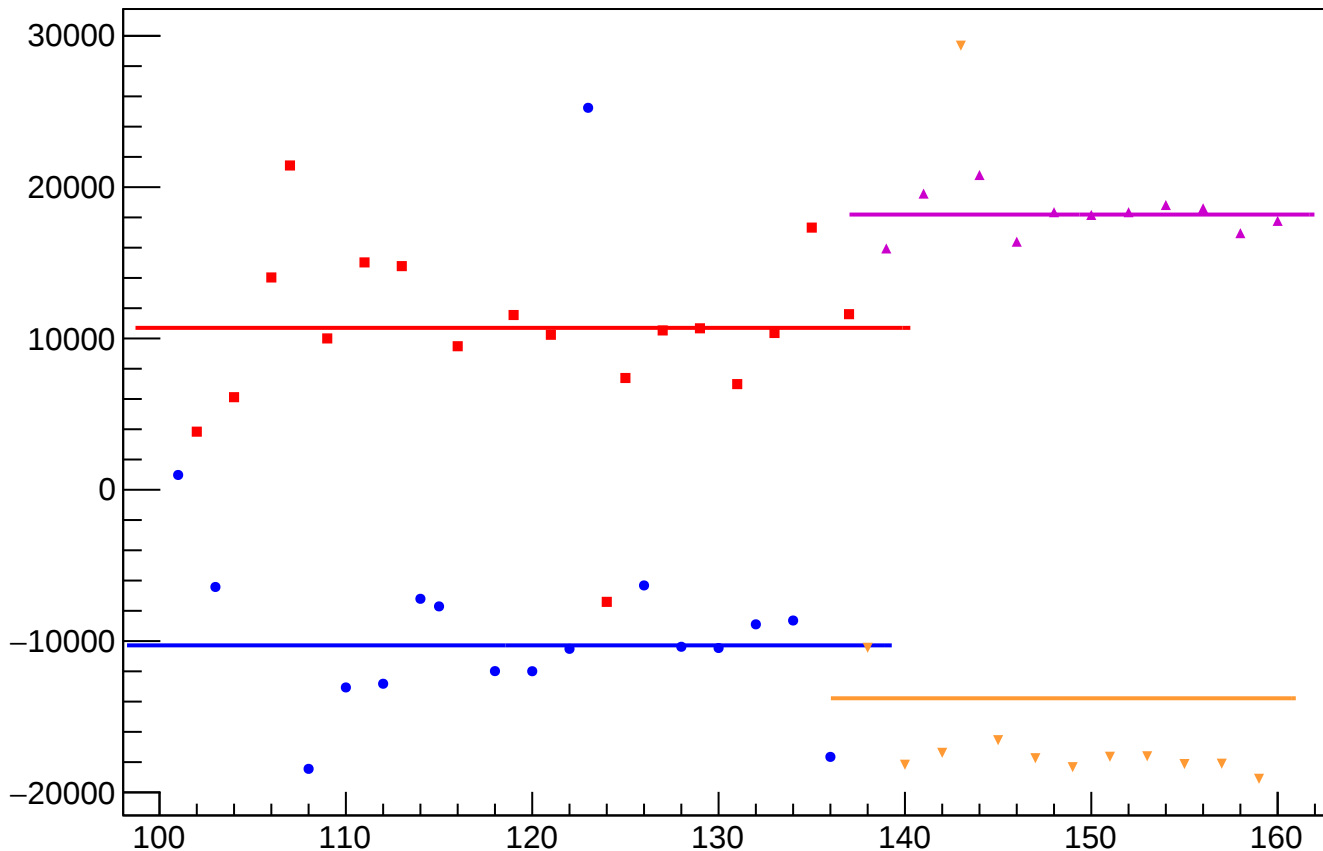
$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514  
 Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946  
 In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121  
 Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_atl1\_coil1\_mean vs Slug, Sign Corrected



Right In: -10283.660+/-0.000

$\chi^2/\text{NDF}$ : 22542685724167344155071704935611221671936.0/16

Left Out: -13780.875+/-0.000

$\chi^2/\text{NDF}$ : 138817330584648681822484556617162256547840.0/11

Right Out: 10700.860+/-0.000

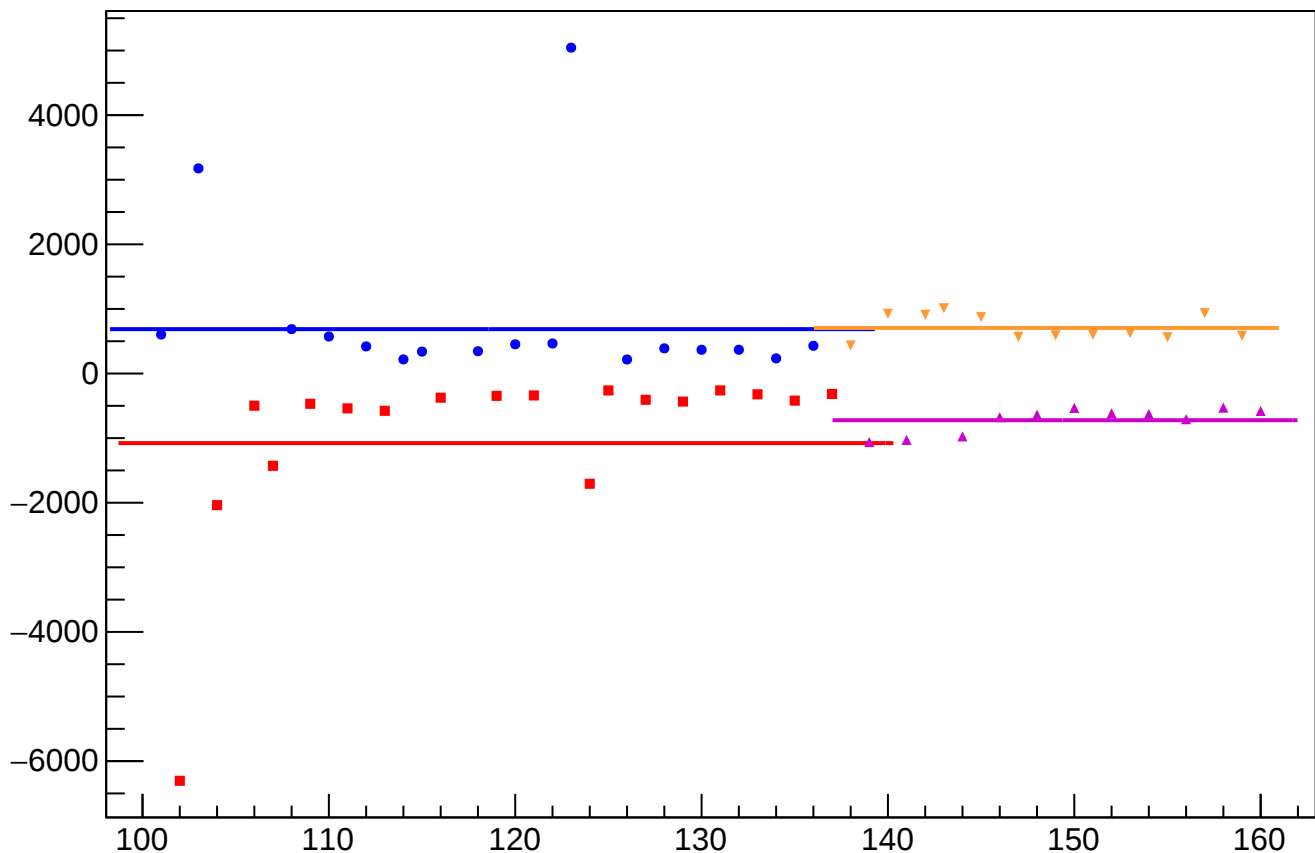
$\chi^2/\text{NDF}$ : 17608009820774086602629870631925827239936.0/17

Left In: 18189.629+/-0.000

$\chi^2/\text{NDF}$ : 1634139917822330923820252034017137786880.0/10

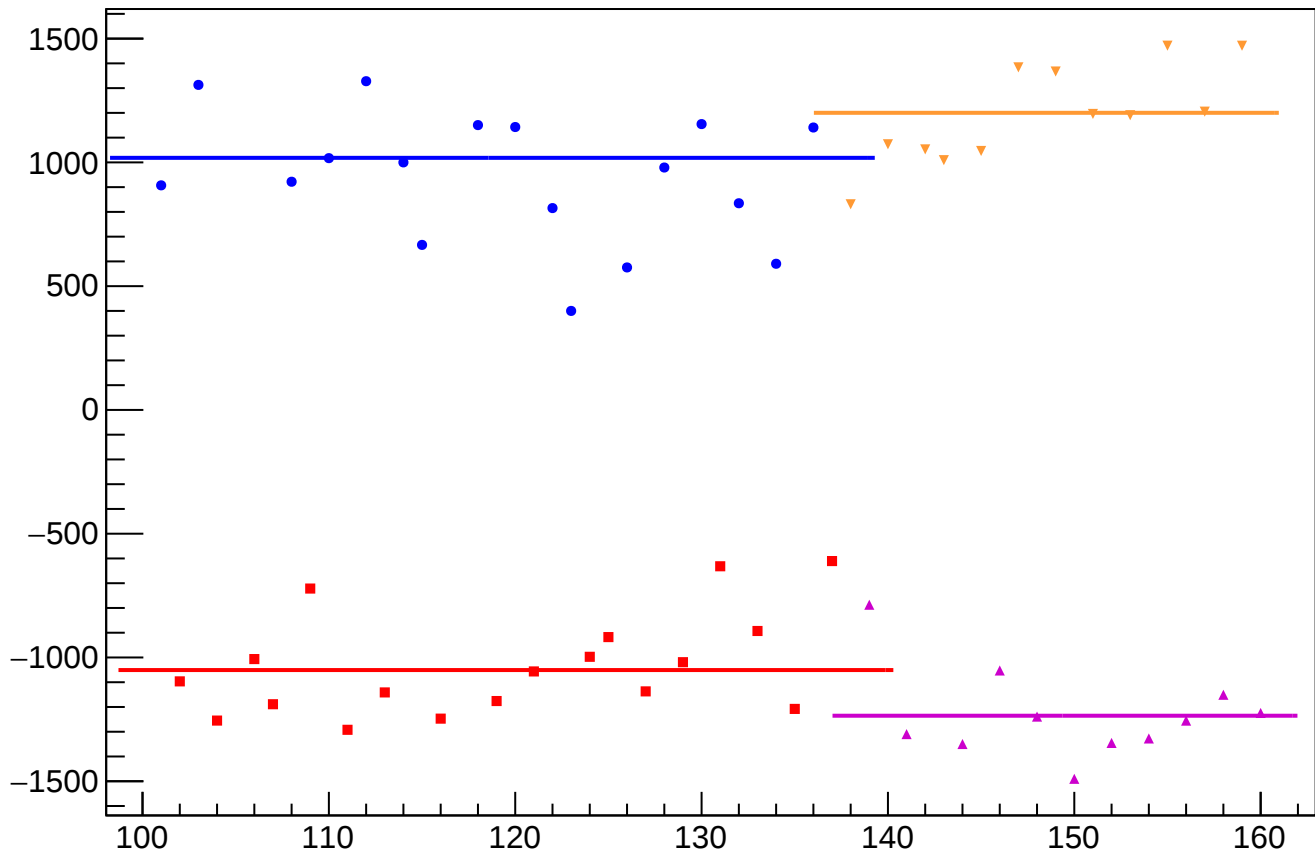
All: 1525.181+/-0.000  $\chi^2/\text{NDF}$ : 80963160115

dit\_atl1\_coil1\_err\_mean vs Slug, Sign Corrected



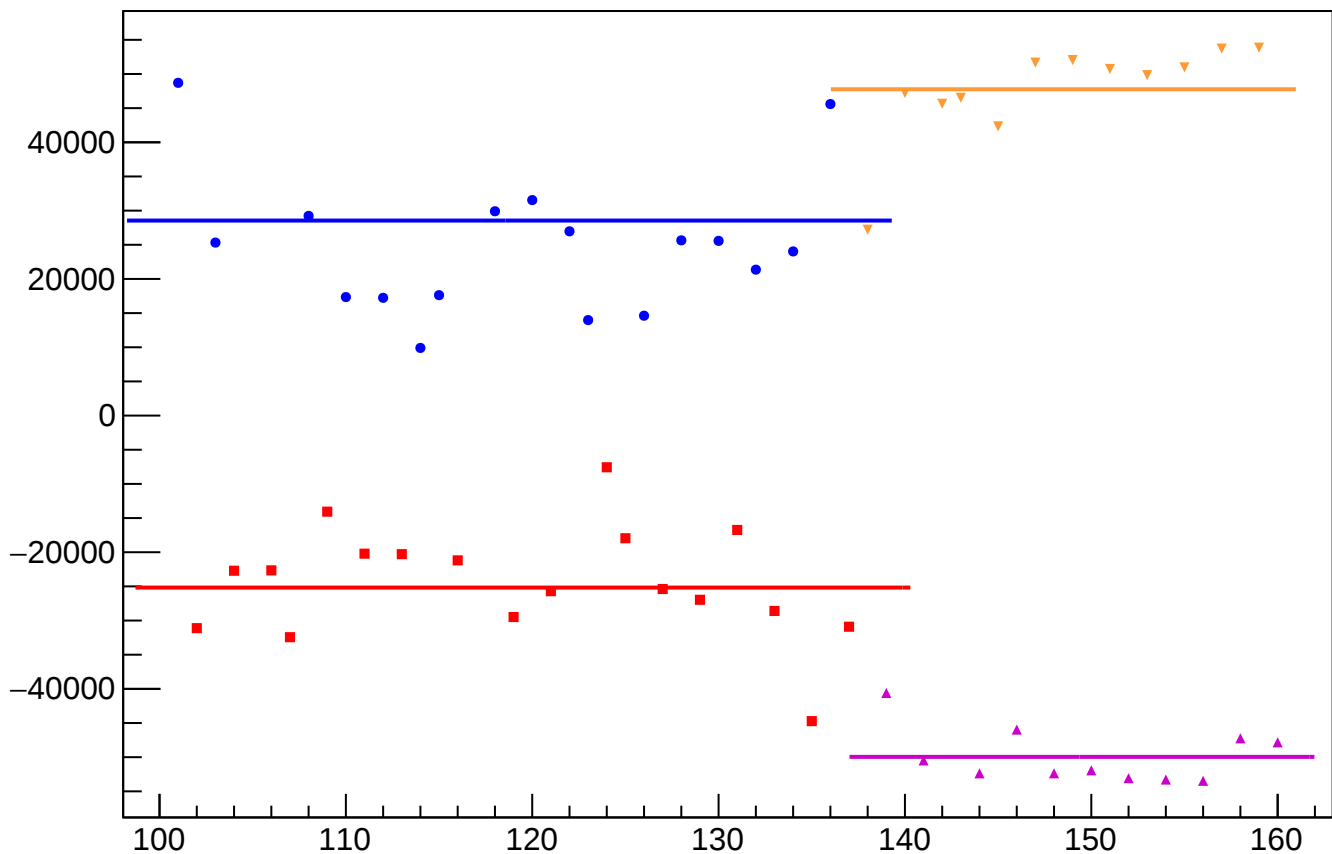
Left: -17.955 +/- 0.000  $\chi^2/\text{NDF}$ : 1003790614261343  
 Right In: 686.989 +/- 0.000  $\chi^2/\text{NDF}$ : 493304193623954738914781428530632720384.0/16  
 Right: -208.103 +/- 0.000  $\chi^2/\text{NDF}$ : 34871533340900  
 Left Out: 705.686 +/- 0.000  $\chi^2/\text{NDF}$ : 30616664019236375652772902235296235520.0/11  
 In: -121.555 +/- 0.000  $\chi^2/\text{NDF}$ : 1317892866614971  
 Right Out: -1076.905 +/- 0.000  $\chi^2/\text{NDF}$ : 1898129082549914246384223466564869947392.0/17  
 Out: -79.137 +/- 0.000  $\chi^2/\text{NDF}$ : 3200453454519733  
 Left In: -722.981 +/- 0.000  $\chi^2/\text{NDF}$ : 33412765649158577967580020065397899264.0/10  
 All: -100.366 +/- 0.000  $\chi^2/\text{NDF}$ : 45198086935

dit\_atl1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 1200.293+/-0.000  $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -1235.313+/-0.000  $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_atl2\_coil1\_mean vs Slug, Sign Corrected



Right In: 28545.088+/-0.000

$\chi^2/\text{NDF}$ : 79305503092498524397532941064889916456960.0/16

Left Out: 47763.203+/-0.000

$\chi^2/\text{NDF}$ : 45759984204233972463295715243734259990528.0/11

Right Out: -25173.072+/-0.000

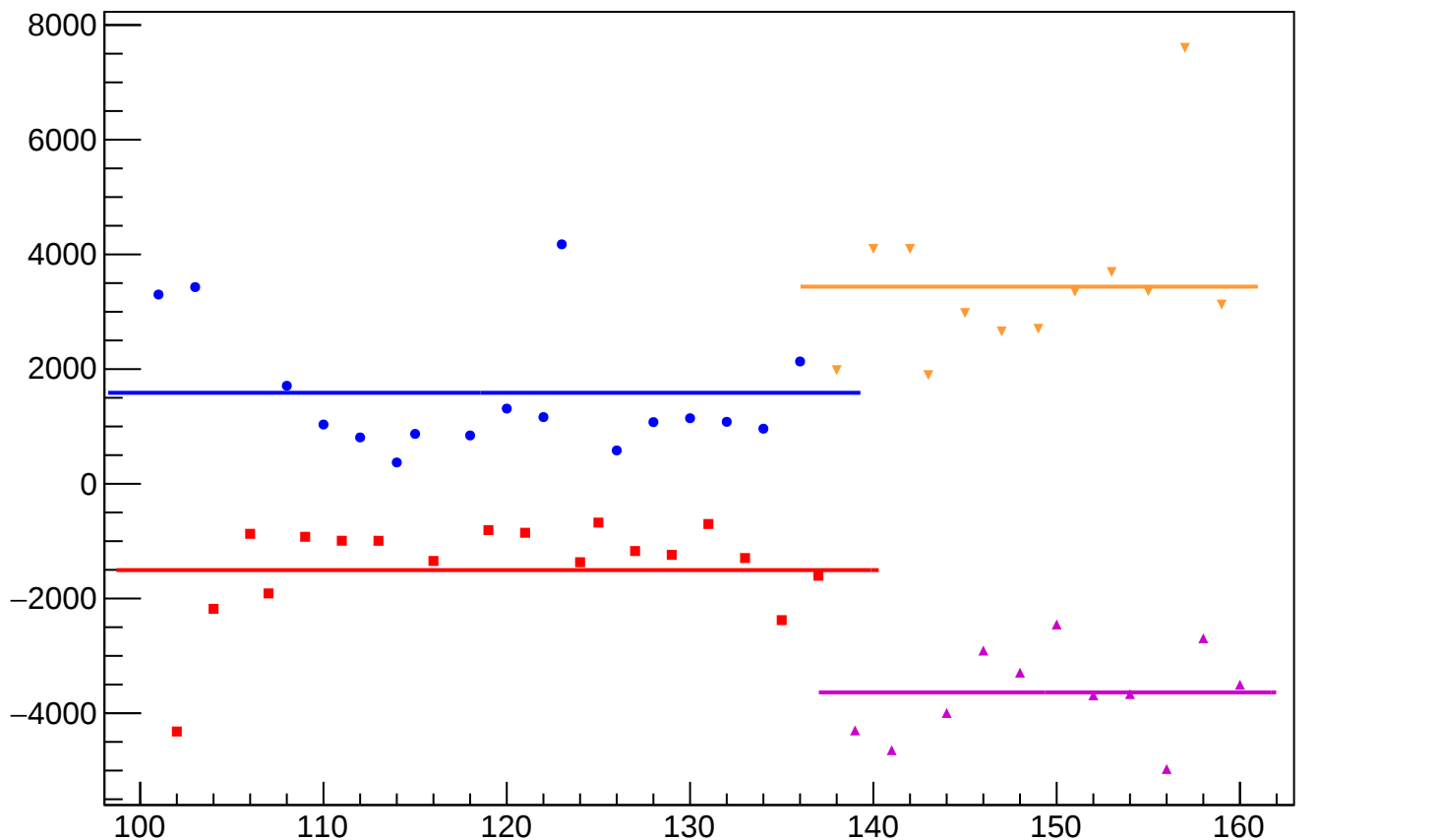
$\chi^2/\text{NDF}$ : 42747079455180569490134671830323044548608.0/17

Left In: -49953.612+/-0.000

$\chi^2/\text{NDF}$ : 13577033864383990821014727544731703705600.0/10

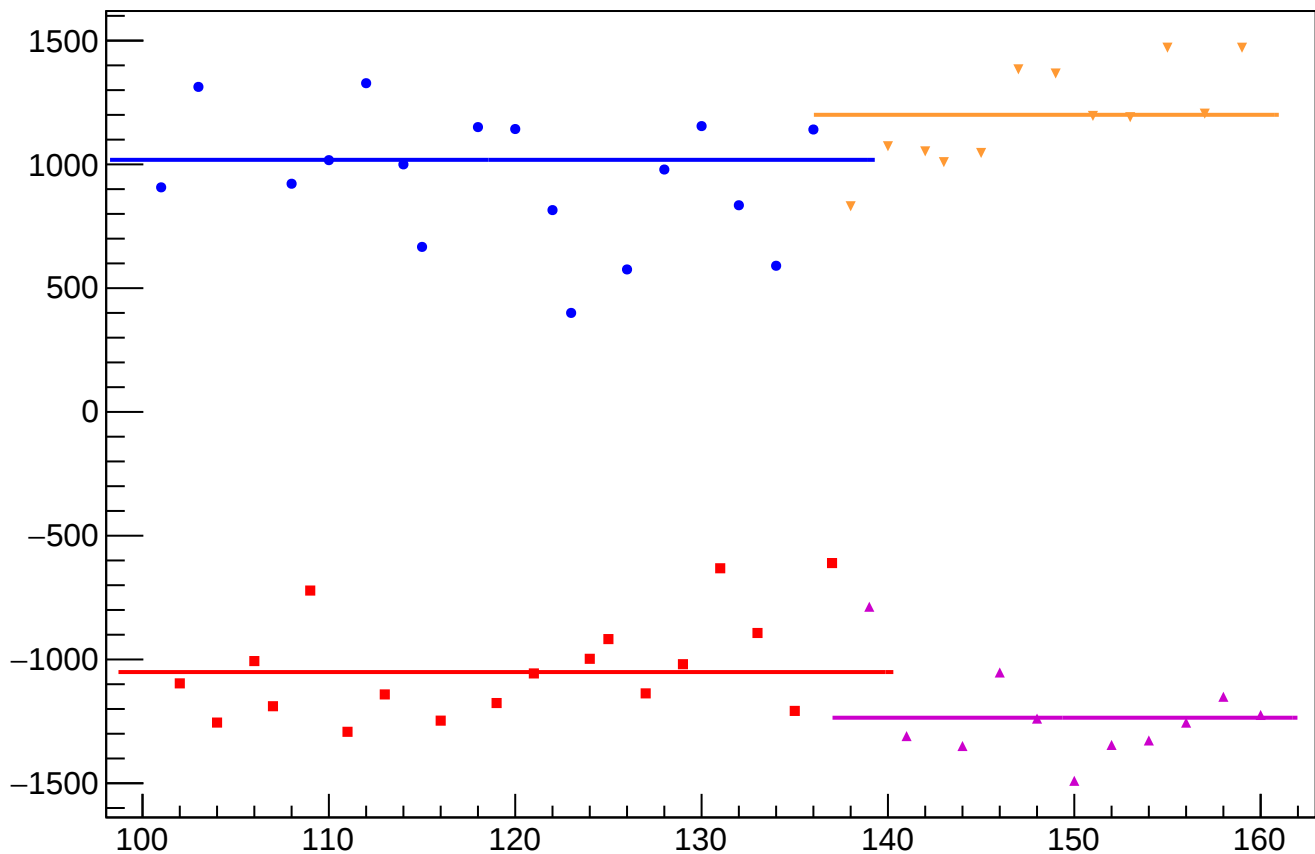
All: -424.000+/-0.000  $\chi^2/\text{NDF}$ : 56012725054

dit\_atl2\_coil1\_err\_mean vs Slug, Sign Corrected



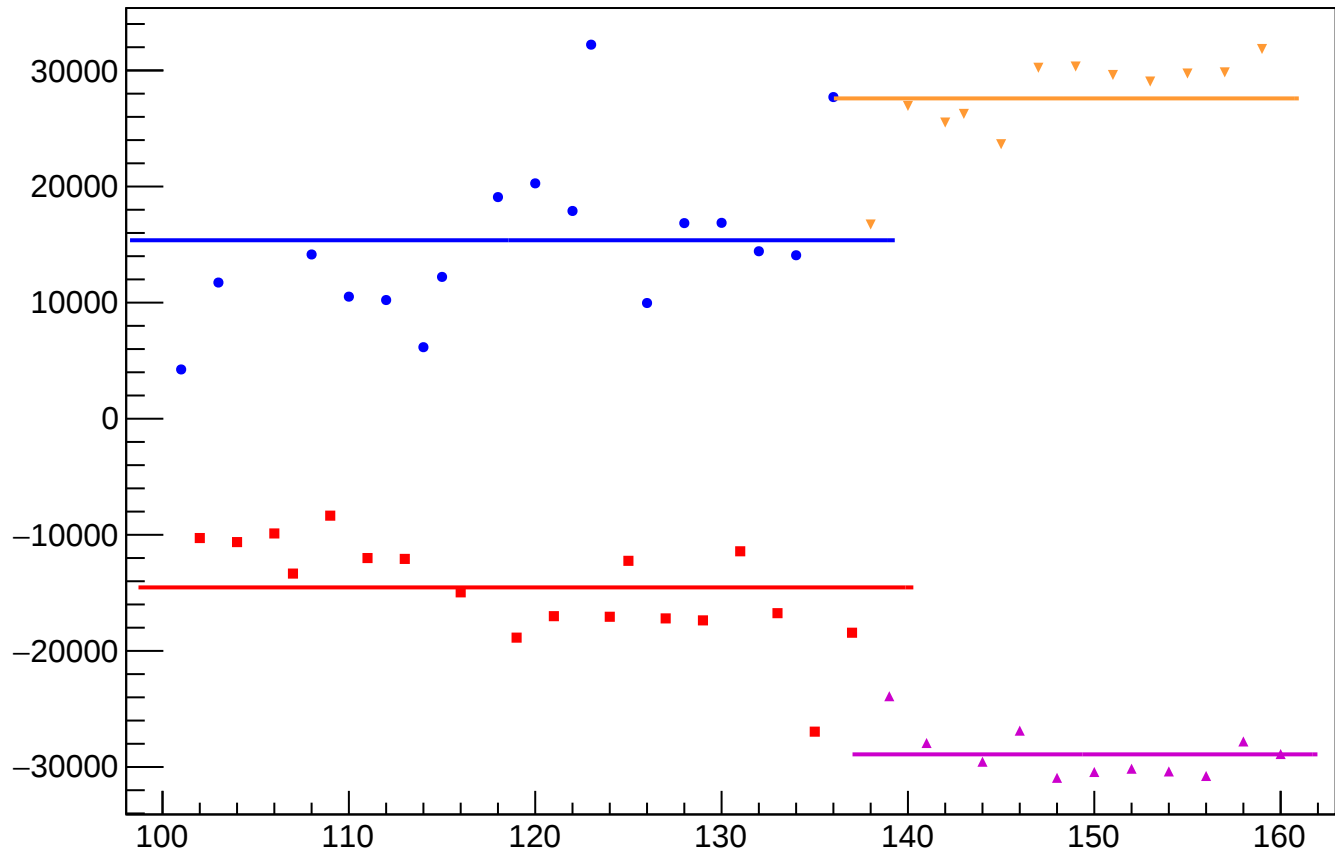
Right In: 1587.187+/-0.000  $\chi^2/\text{NDF}$ : 615324434940076903003531567179686215680.0/16  
 Left Out: 3437.732+/-0.000  $\chi^2/\text{NDF}$ : 1787367668595754289869839739980022284288.0/11  
 Right Out: -1504.230+/-0.000  $\chi^2/\text{NDF}$ : 678771439829187339393474850676239499264.0/17  
 Left In: -3636.942+/-0.000  $\chi^2/\text{NDF}$ : 531629510499304026743248594251812962304.0/10  
 All: -74.557+/-0.000  $\chi^2/\text{NDF}$ : 300448399053

dit\_atl2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



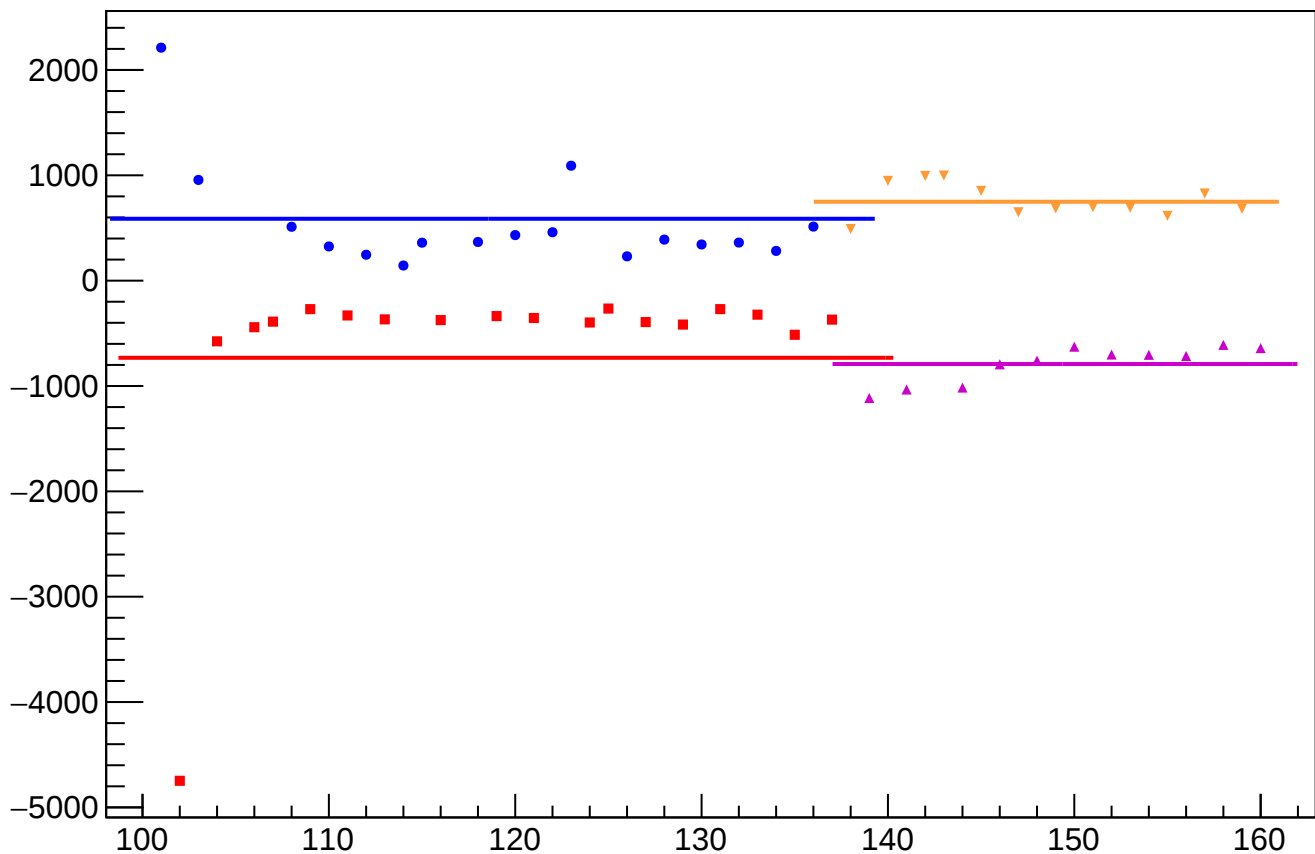
Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 1200.293+/-0.000  $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -1235.313+/-0.000  $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_atr1\_coil1\_mean vs Slug, Sign Corrected



Right In: 15371.957+/-0.000  $\chi^2/\text{NDF}$ : 29284474571084462407736251938608521412608.0/16  
 Left Out: 27590.549+/-0.000  $\chi^2/\text{NDF}$ : 14629897493361033715378591637422508867584.0/11  
 Right Out: -14530.553+/-0.000  $\chi^2/\text{NDF}$ : 15462988113686651104588076983529515253760.0/17  
 Left In: -28911.407+/-0.000  $\chi^2/\text{NDF}$ : 3750623516154684604168342640620271042560.0/10  
 All: -496.998+/-0.000  $\chi^2/\text{NDF}$ : 18491099941

# dit\_atr1\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 587.577+/-0.000

$\chi^2/\text{NDF}$ : 195107984512310448986091727250308202496.0/16

Left Out: 749.082+/-0.000

$\chi^2/\text{NDF}$ : 19986493434775093751754489968960995328.0/11

Right Out: -732.166+/-0.000

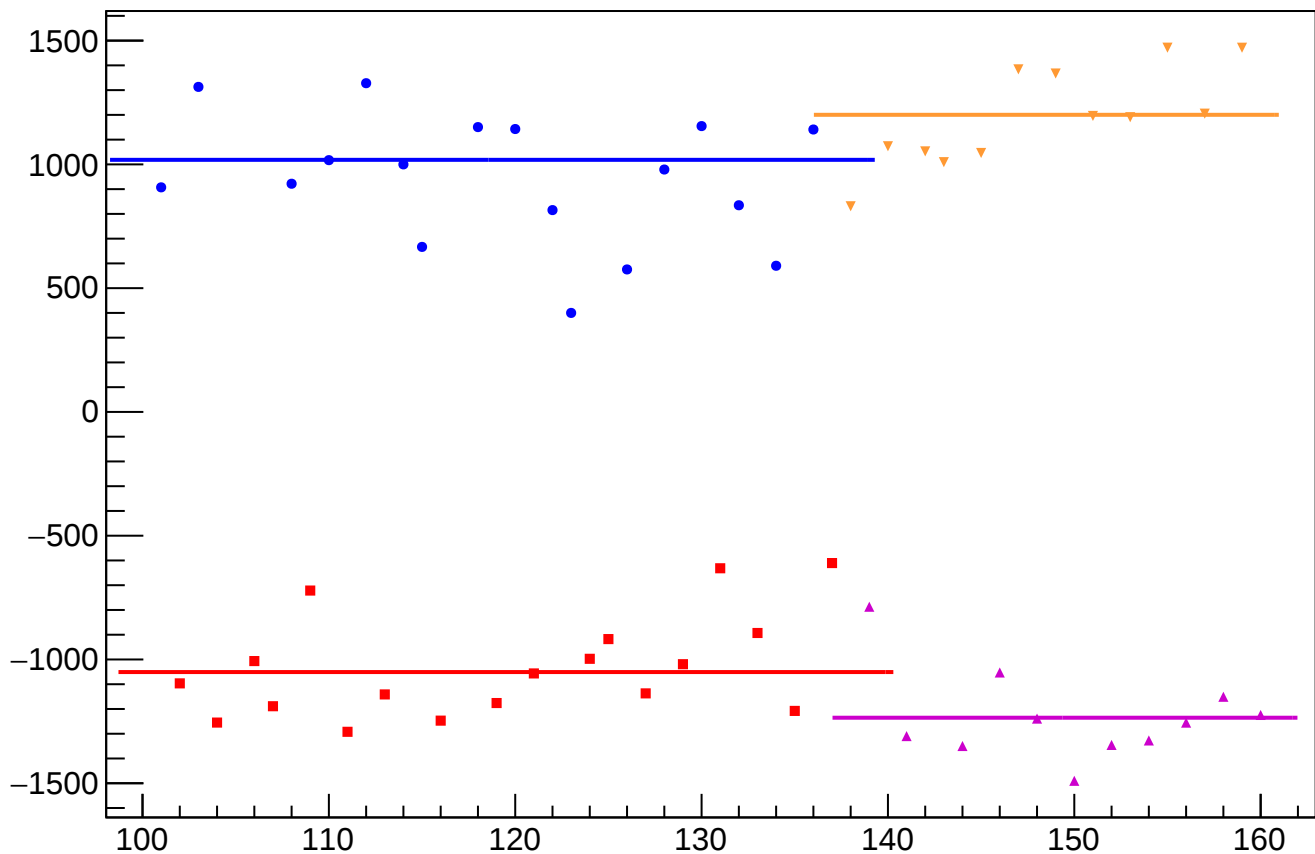
$\chi^2/\text{NDF}$ : 1022613131551712750449458449642369843200.0/17

Left In: -791.279+/-0.000

$\chi^2/\text{NDF}$ : 26822559207642096711518423492795039744.0/10

All: -53.235+/-0.000  $\chi^2/\text{NDF}$ : 297244099785

dit\_atr1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

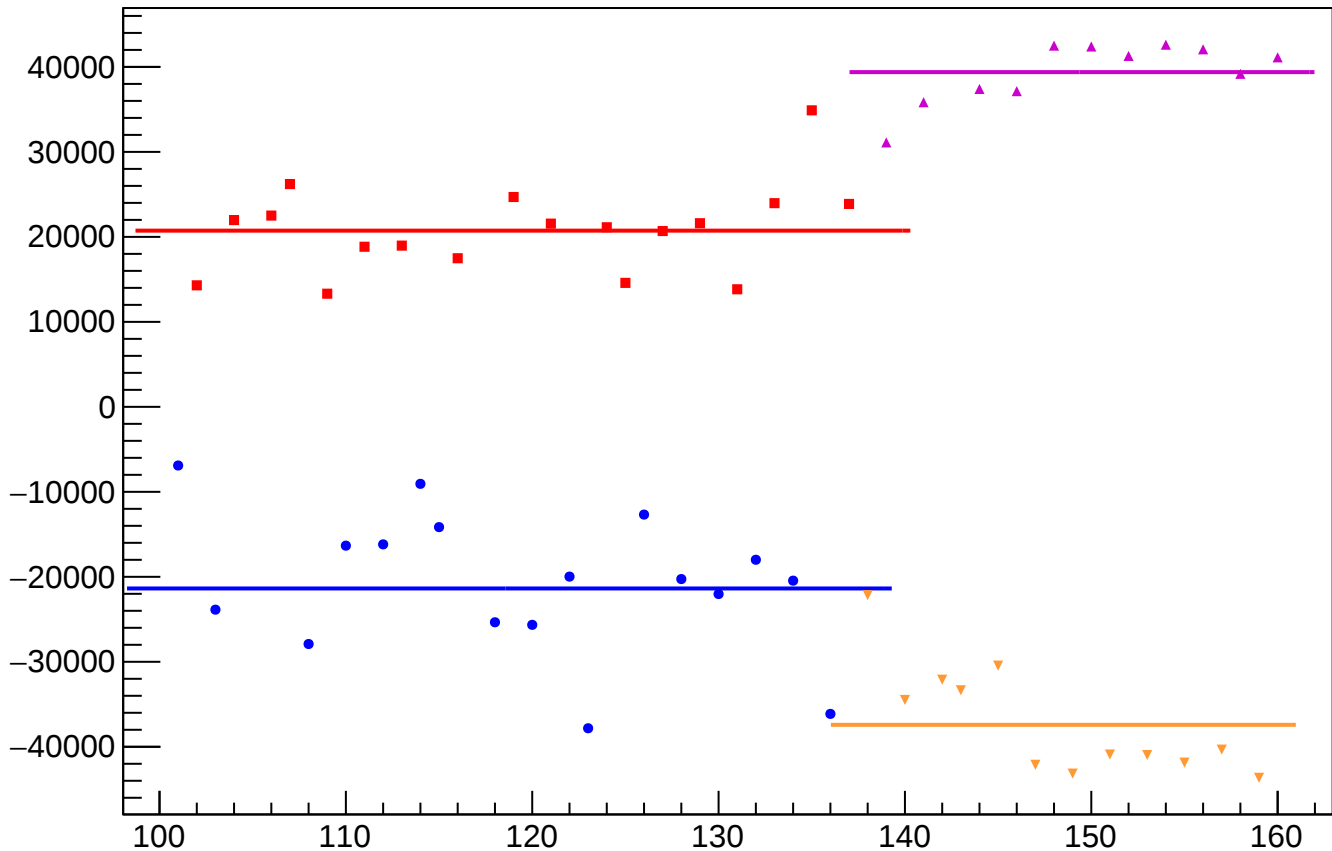
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_atr2\_coil1\_mean vs Slug, Sign Corrected



Right In: -21370.339+/-0.000

Left Out: -37415.440+/-0.000

Right Out: 20735.001+/-0.000

Left In: 39386.944+/-0.000

$\chi^2/\text{NDF}$ : 44476087148423218769698830448172004802560.0/16

$\chi^2/\text{NDF}$ : 36893164654983701349381151569495382294528.0/11

$\chi^2/\text{NDF}$ : 21267884844776863671050573800564620001280.0/17

$\chi^2/\text{NDF}$ : 11090931788233525208634627212015308898304.0/10

Left: 1486.093+/-0.000  $\chi^2/\text{NDF}$ : 276383113141512

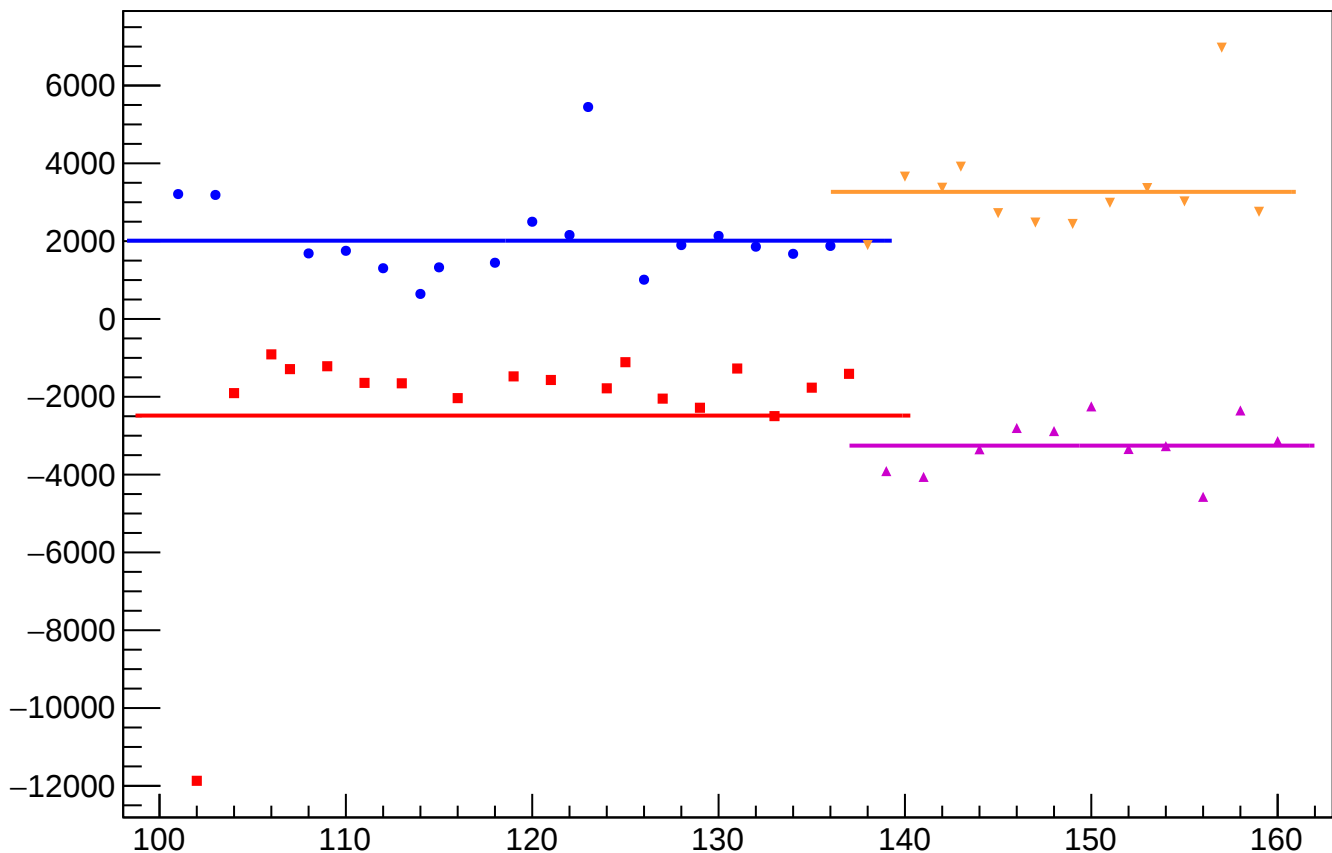
Right: -3.896+/-0.000  $\chi^2/\text{NDF}$ : 6900950472840911

In: 13470.807+/-0.000  $\chi^2/\text{NDF}$ : 152466323892427

Out: -11813.491+/-0.000  $\chi^2/\text{NDF}$ : 1411448108237

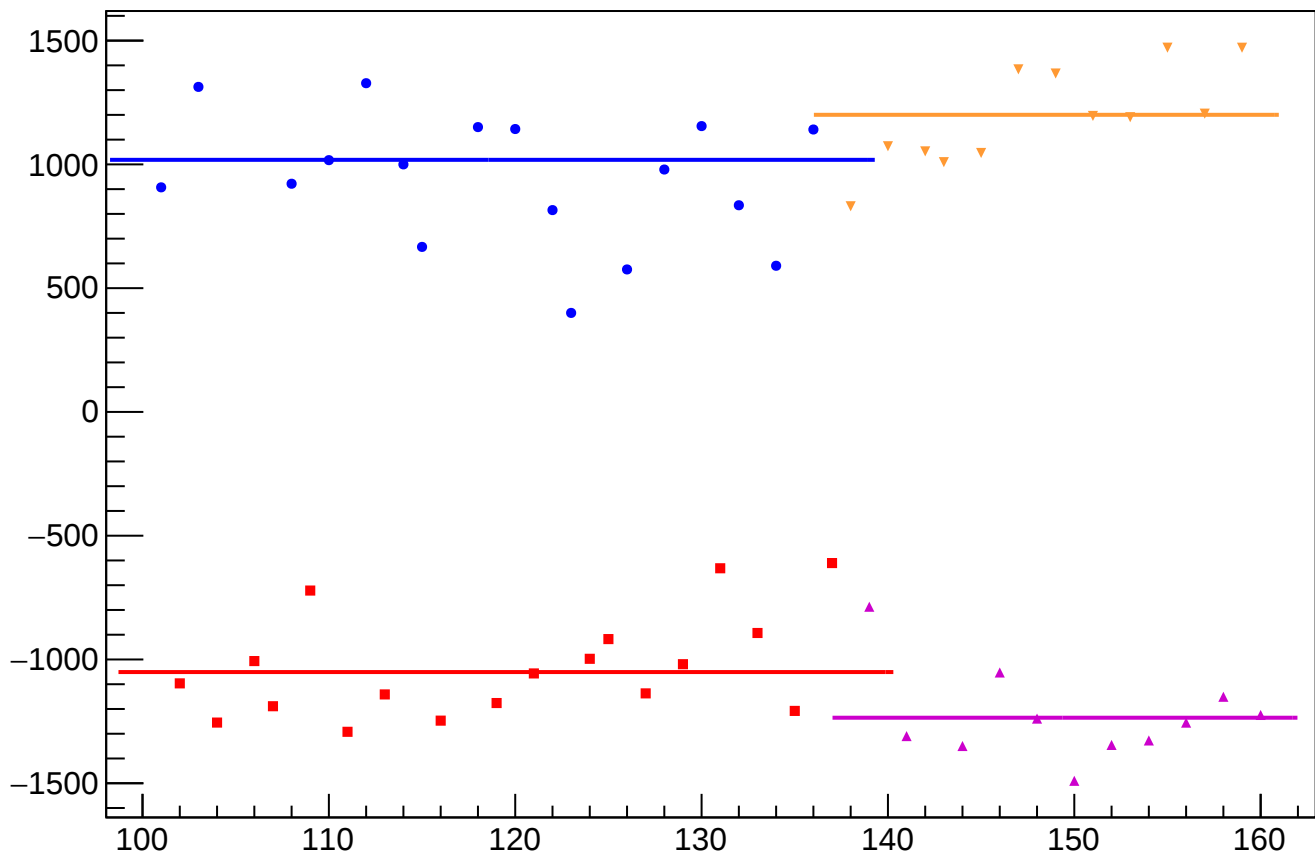
All: 840.324+/-0.000  $\chi^2/\text{NDF}$ : 345569852964

dit\_atr2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 2011.970+/-0.000  $\chi^2/\text{NDF}$ : 346652592308673178727003456260959895552.0/16  
 Left Out: 3267.187+/-0.000  $\chi^2/\text{NDF}$ : 1365364759229998432134037030614341779456.0/11  
 Right Out: -2482.921+/-0.000  $\chi^2/\text{NDF}$ : 5673812113008855047349052904680066121728.0/17  
 Left In: -3255.280+/-0.000  $\chi^2/\text{NDF}$ : 418327011986445588651238941523934445568.0/10  
 All: -137.276+/-0.000  $\chi^2/\text{NDF}$ : 34550109983

dit\_atr2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

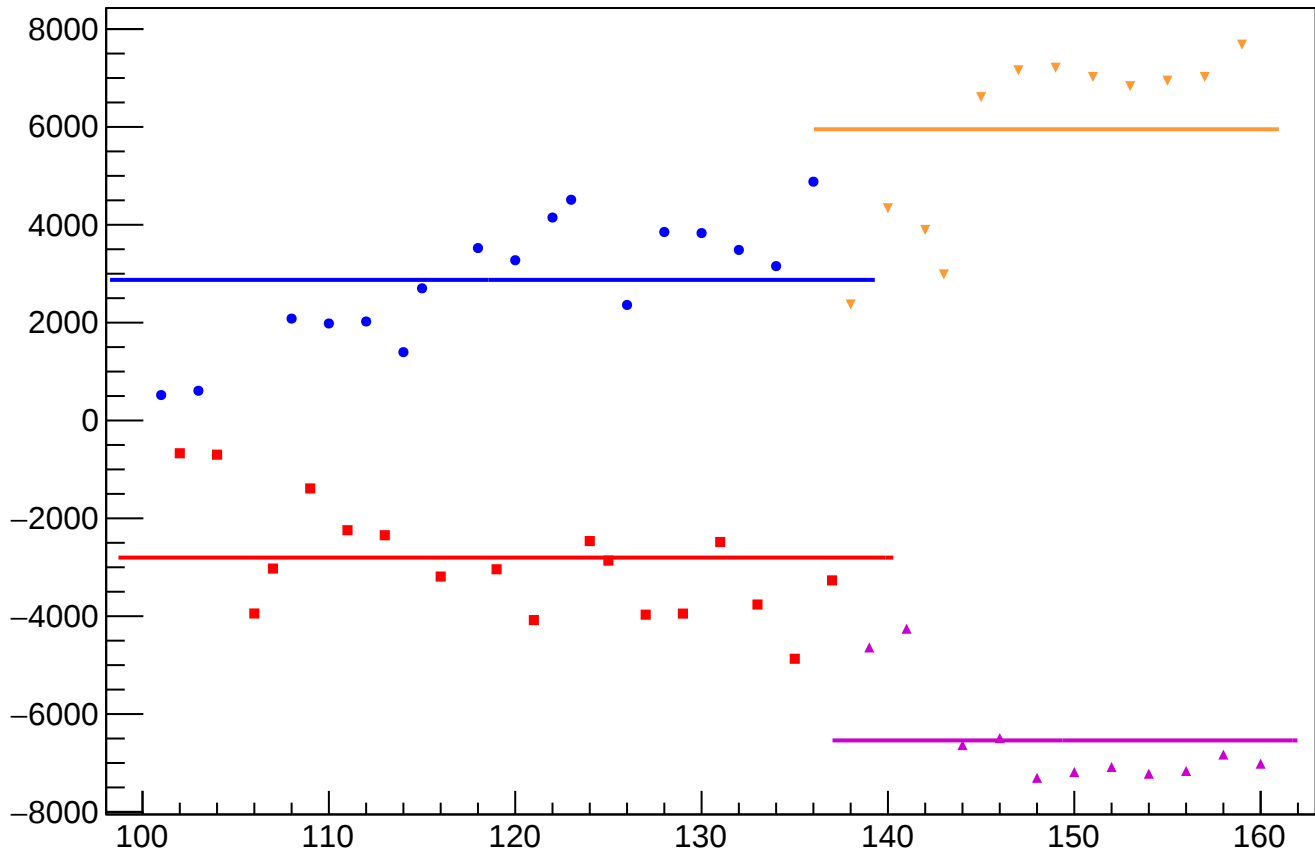
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

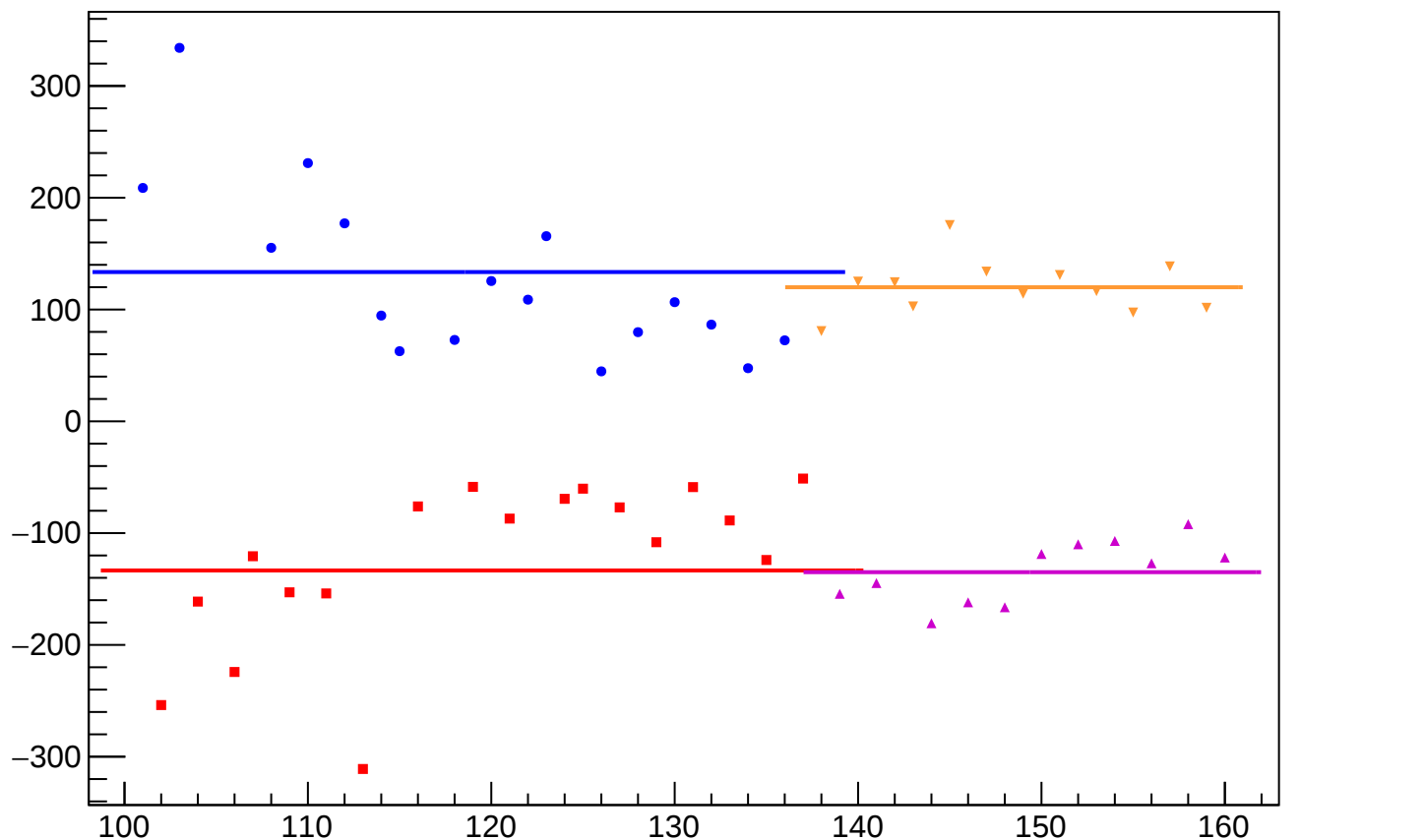
All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

dit\_sam1\_coil1\_mean vs Slug, Sign Corrected



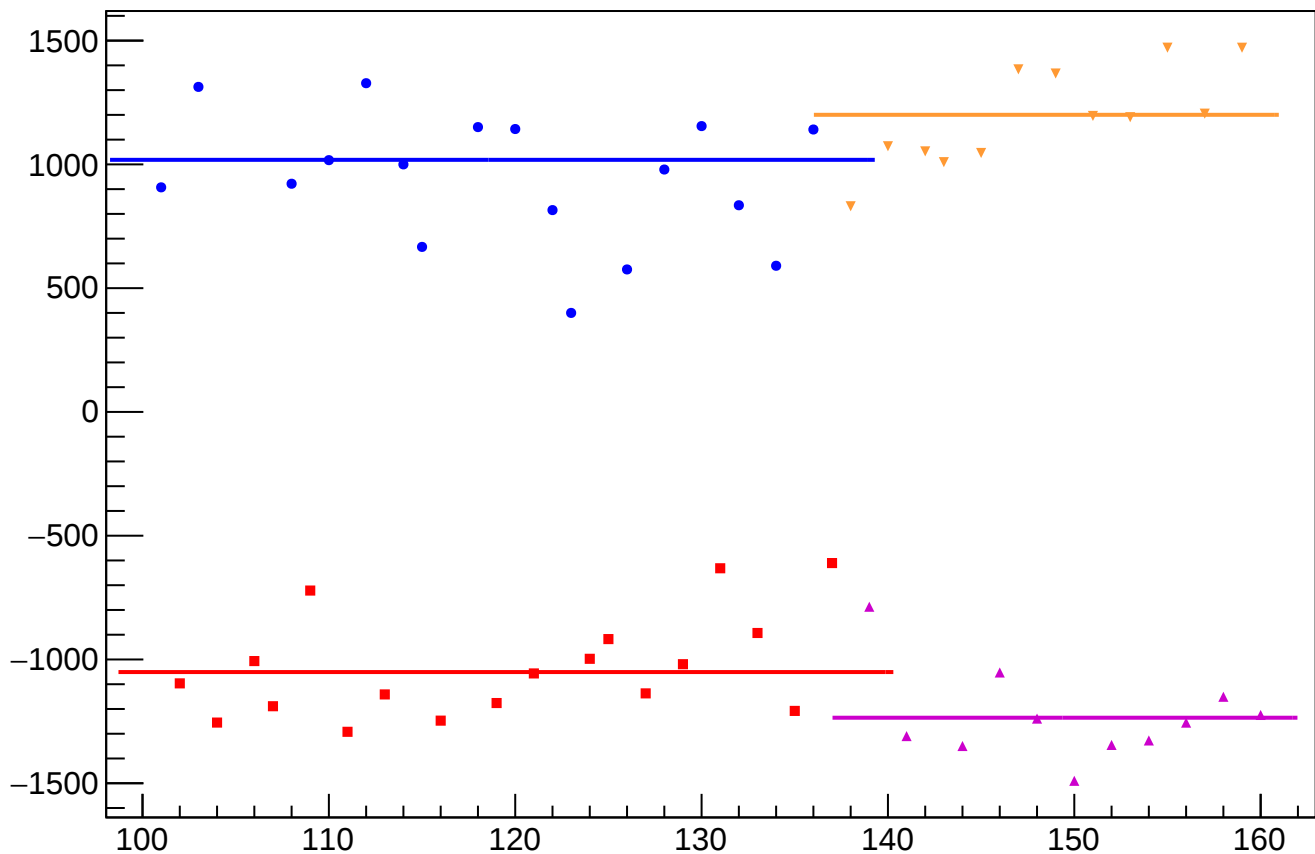
Right In: 2874.142 $\pm$ 0.000  $\chi^2$ /NDF: 1331222919424099285024540359740568371200.0/16  
 Left Out: 5952.071 $\pm$ 0.000  $\chi^2$ /NDF: 2833818943109615822191848442455285301248.0/11  
 Right Out: -2802.151 $\pm$ 0.000  $\chi^2$ /NDF: 1095477572477657195402092119674444578816.0/17  
 Left In: -6539.067 $\pm$ 0.000  $\chi^2$ /NDF: 947421211454184627704546632992611631104.0/10  
 All: -215.134 $\pm$ 0.000  $\chi^2$ /NDF: 89502411249

dit\_sam1\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 133.542 $\pm$ 0.000  $\chi^2$ /NDF: 4543635536863363524362136904007680000.0/16  
 Left Out: 119.938 $\pm$ 0.000  $\chi^2$ /NDF: 506287177502147090737971040893272064.0/11  
 Right Out: -133.414 $\pm$ 0.000  $\chi^2$ /NDF: 3923674220000100911612282920536899584.0/17  
 Left In: -134.936 $\pm$ 0.000  $\chi^2$ /NDF: 683742897306443646966443406983692288.0/10  
 All: -6.024 $\pm$ 0.000  $\chi^2$ /NDF: 6470622923911

dit\_sam1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

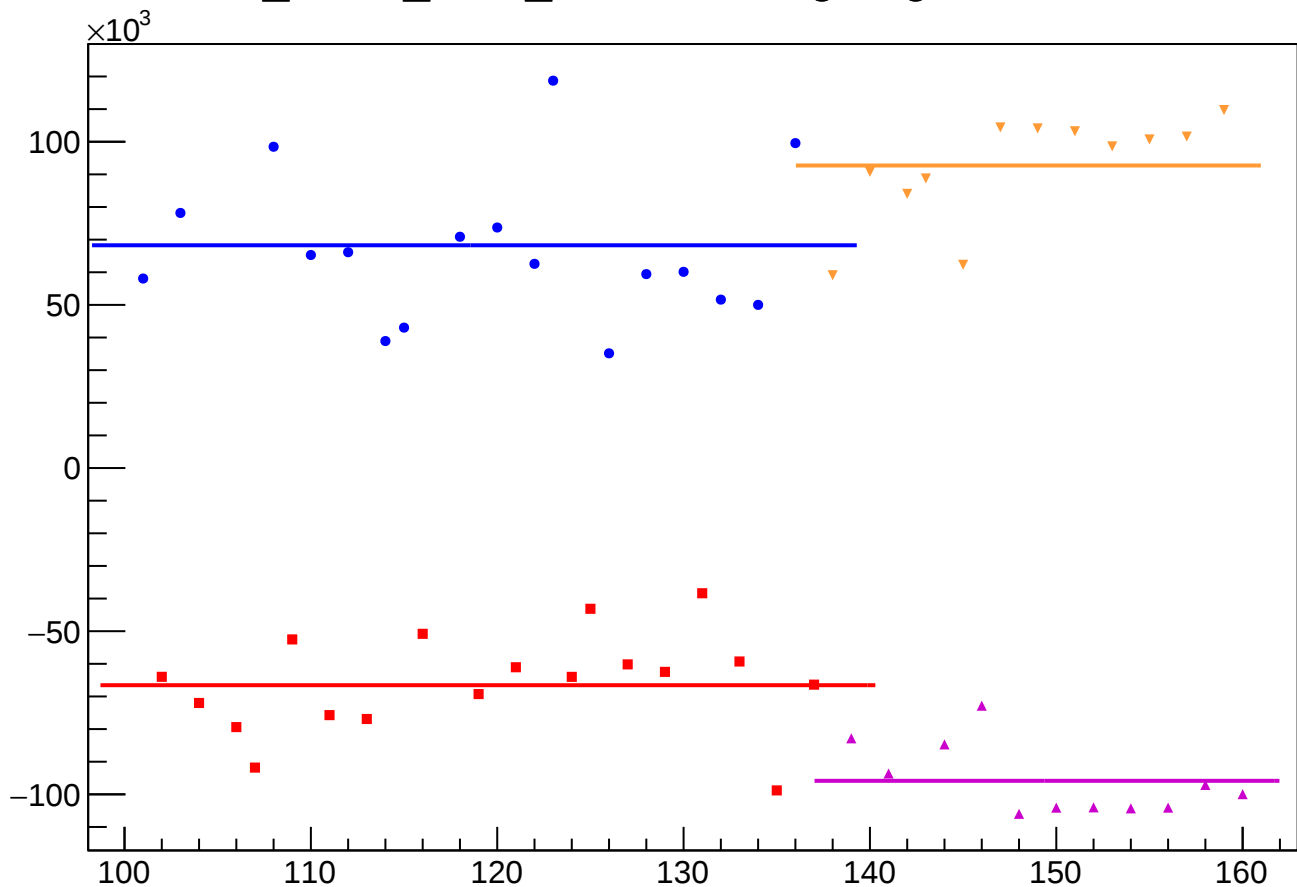
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam2\_coil1\_mean vs Slug, Sign Corrected



Right In: 68271.144+/-0.000

$\chi^2/\text{NDF}$ : 235026660939690757848337831565145453625344.0/16

Left Out: 92717.908+/-0.000

$\chi^2/\text{NDF}$ : 232153760216632352324453742795605416083456.0/11

Right Out: -66552.333+/-0.000

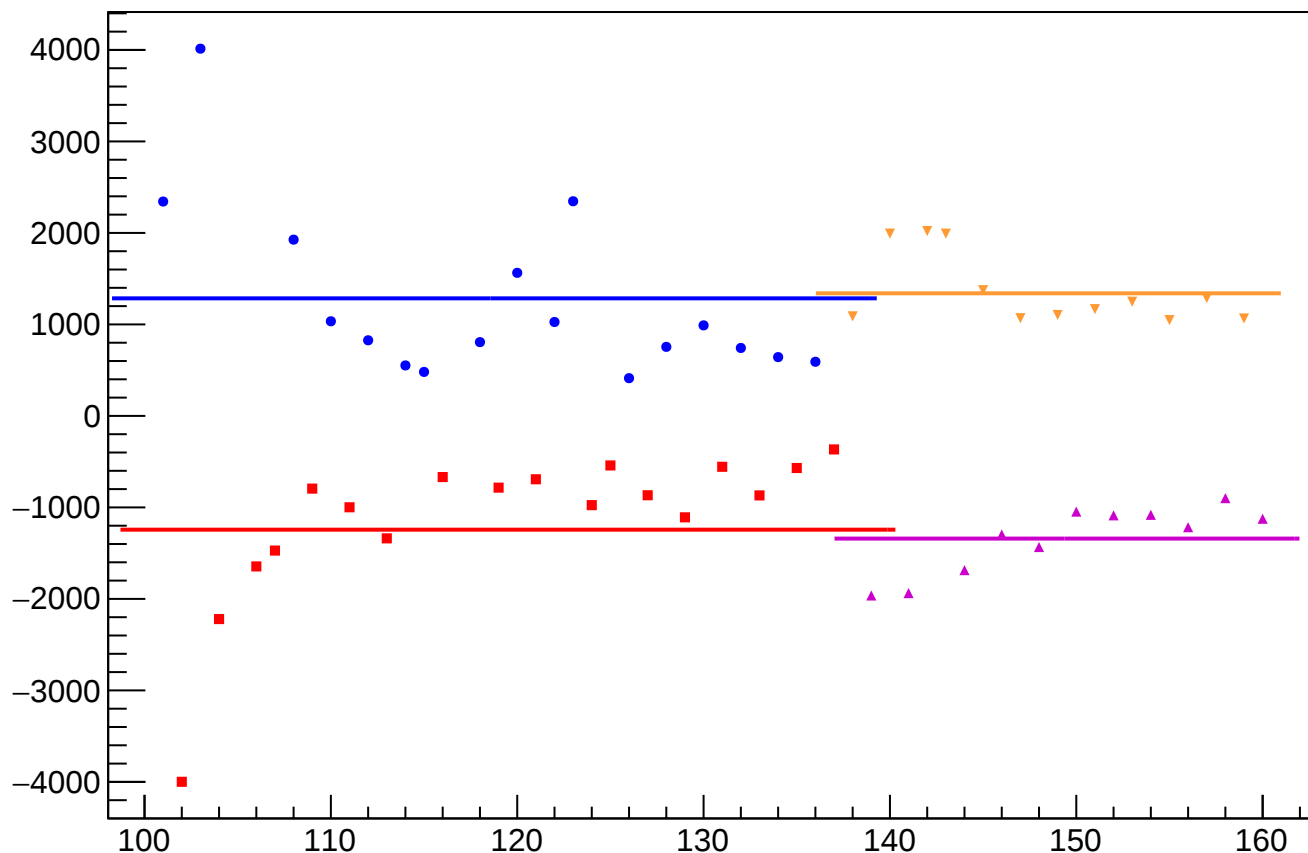
$\chi^2/\text{NDF}$ : 160169834970936771160063883899631076114432.0/17

Left In: -95856.790+/-0.000

$\chi^2/\text{NDF}$ : 102994954285402902924974022528111745171456.0/10

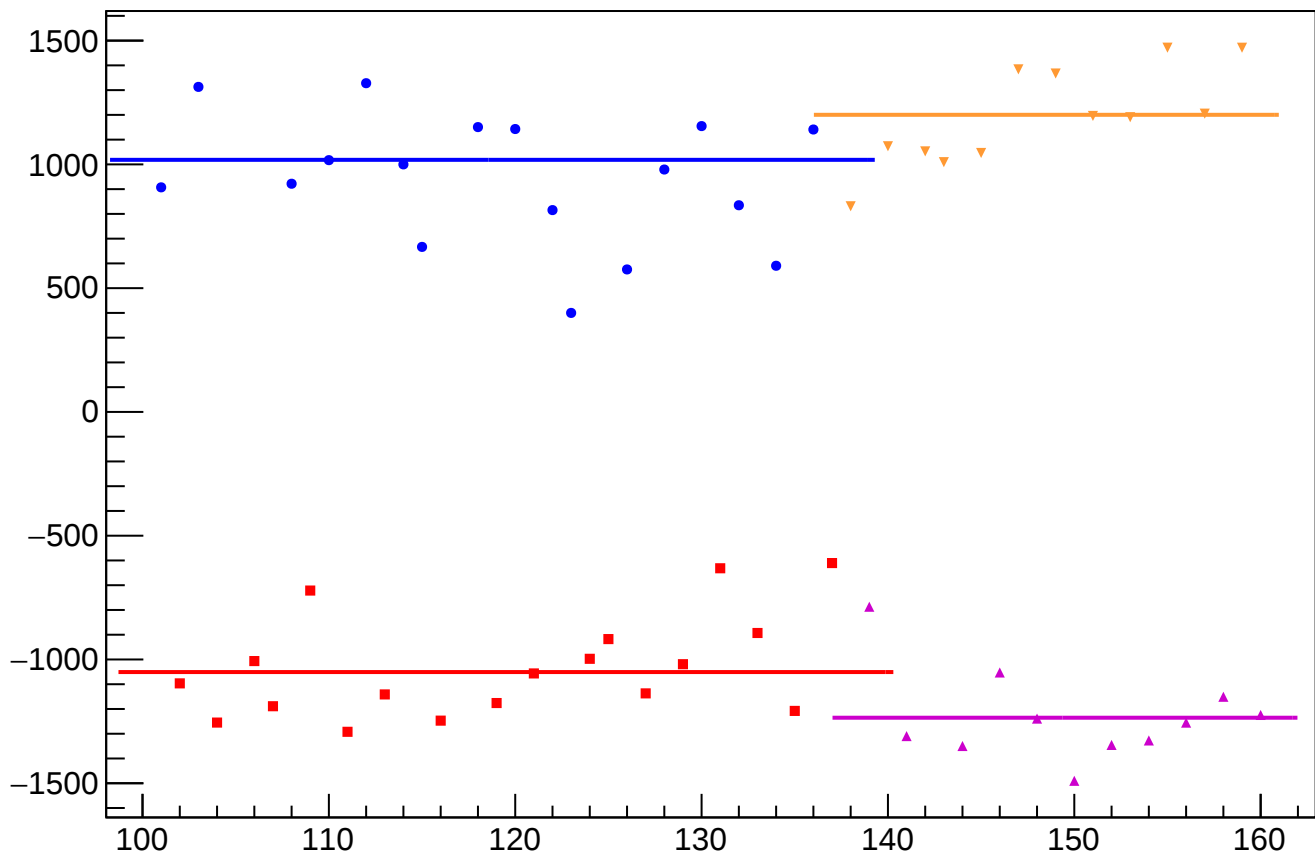
All: -1648.278+/-0.000  $\chi^2/\text{NDF}$ : 2351031089

# dit\_sam2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 1284.940+/-0.000  $\chi^2/\text{NDF}$ : 683539831030777721568567692799915327488.0/16  
 Left Out: 1340.000+/-0.000  $\chi^2/\text{NDF}$ : 116326245376352875631706190484755972096.0/11  
 Right Out: -1243.357+/-0.000  $\chi^2/\text{NDF}$ : 625737092307119238017872949095807582208.0/17  
 Left In: -1340.697+/-0.000  $\chi^2/\text{NDF}$ : 113497084889581869864754089979493220352.0/10  
 All: -9.247+/-0.000  $\chi^2/\text{NDF}$ : 7099247907487

dit\_sam2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

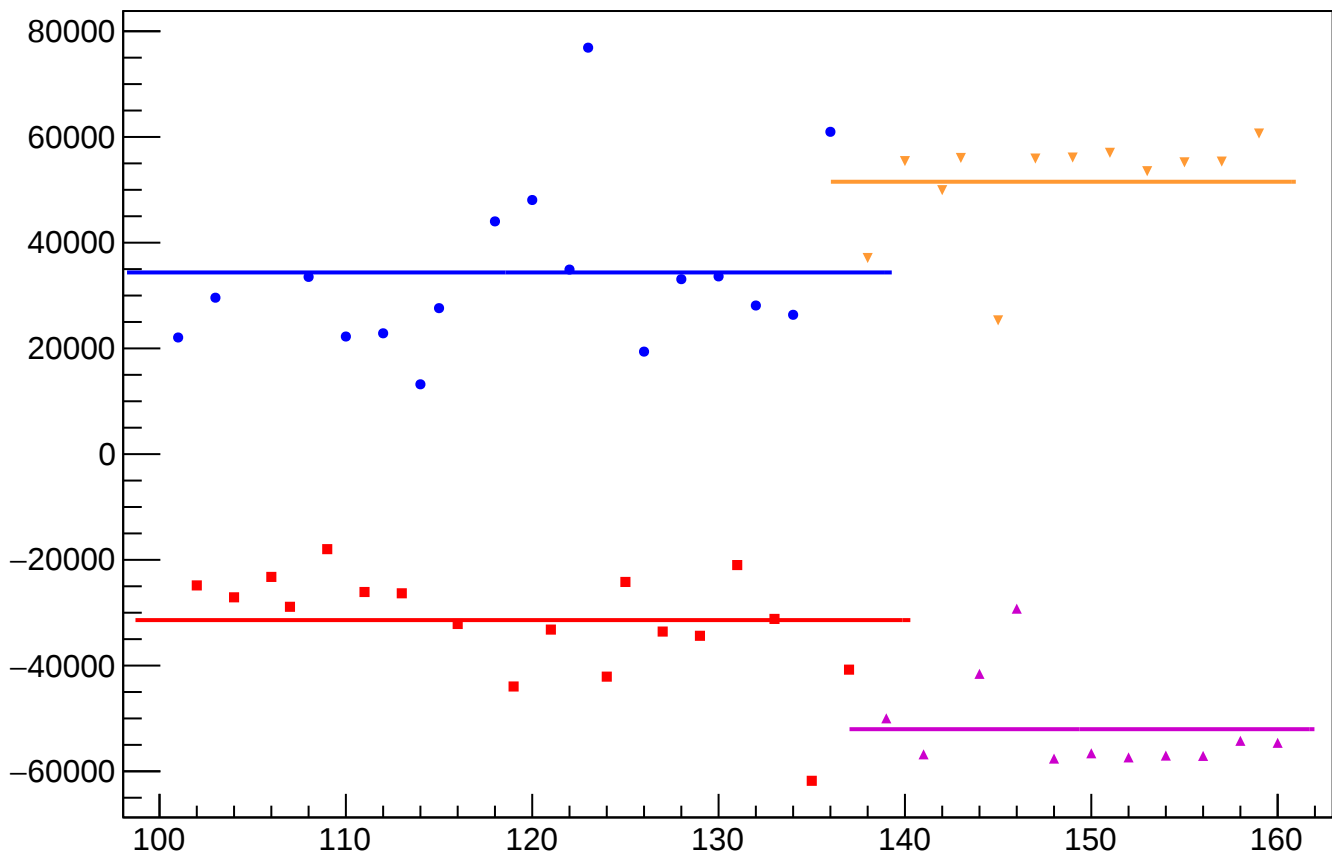
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

dit\_sam3\_coil1\_mean vs Slug, Sign Corrected



Right In: 34369.403+/-0.000

$\chi^2/\text{NDF}$ : 121175034584498762854553117020903178240000.0/16

Left Out: 51528.453+/-0.000

$\chi^2/\text{NDF}$ : 87309132481343179098596905129114857373696.0/11

Right Out: -31397.869+/-0.000

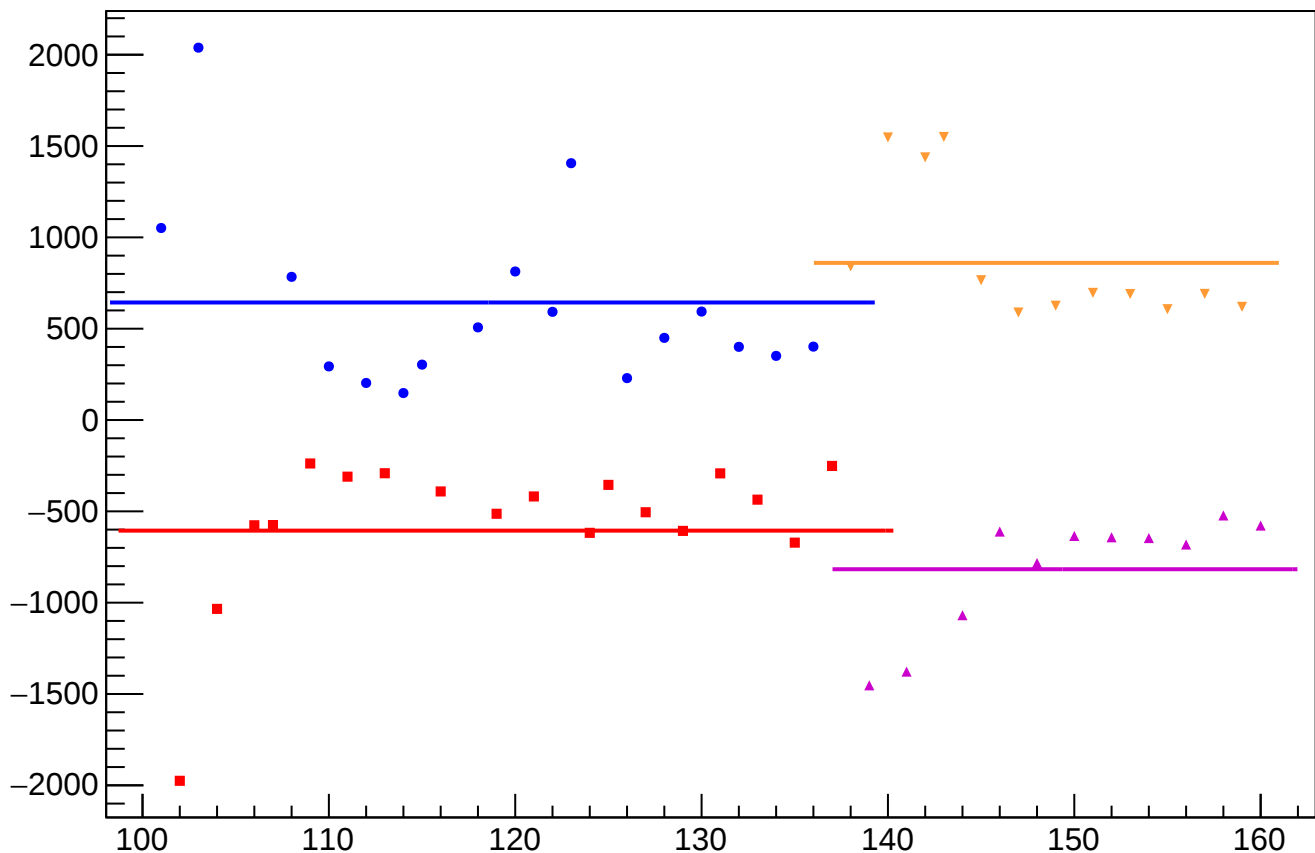
$\chi^2/\text{NDF}$ : 79791187049723357576303825736183029170176.0/17

Left In: -52033.522+/-0.000

$\chi^2/\text{NDF}$ : 67338083803269731476711249699025786503168.0/10

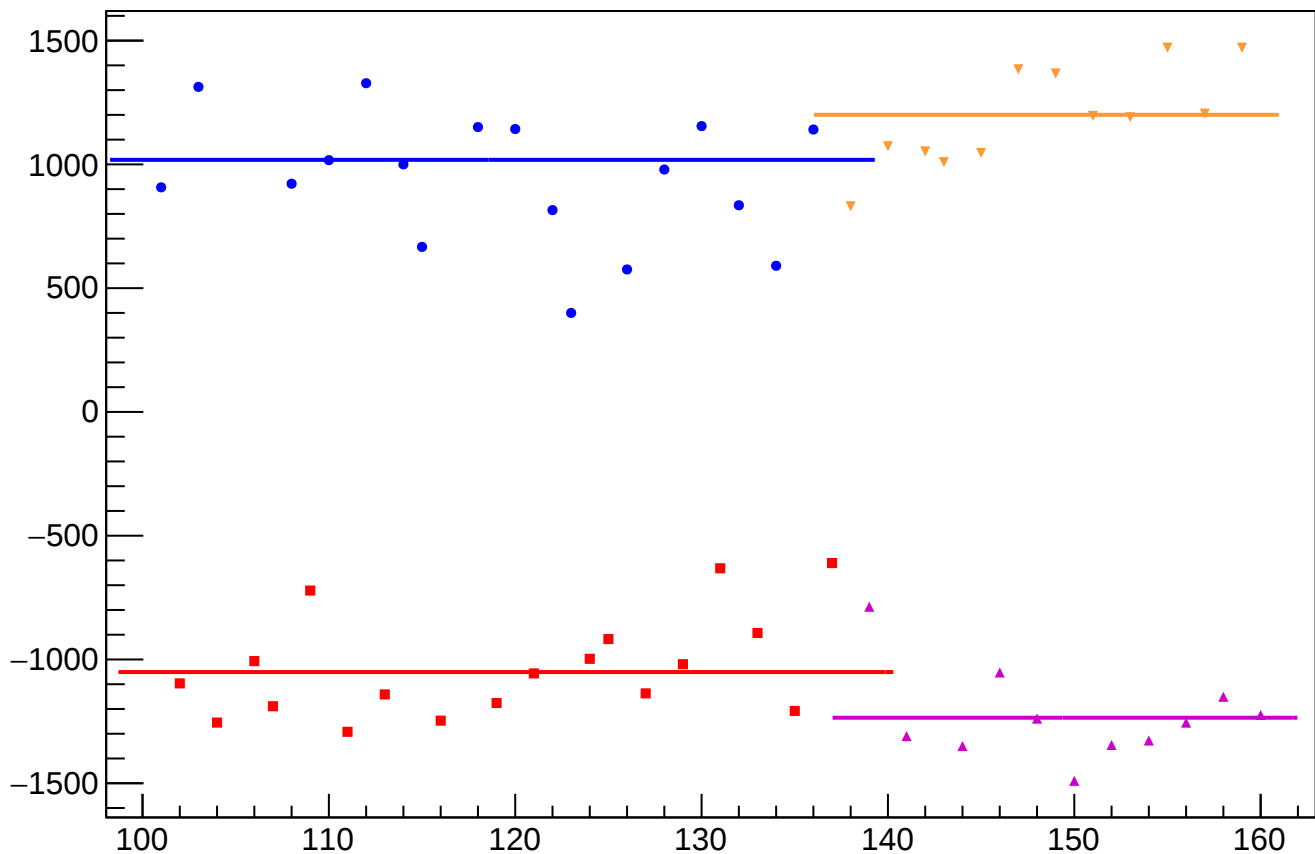
All: -93.824+/-0.000  $\chi^2/\text{NDF}$ : 681988773925

dit\_sam3\_coil1\_err\_mean vs Slug, Sign Corrected



Right In:  $643.513 \pm 0.000$   $\chi^2/\text{NDF}: 166606755510131009794947888972916850688.0/16$   
 Left Out:  $860.333 \pm 0.000$   $\chi^2/\text{NDF}: 113447619211020210726400023771184365568.0/11$   
 Right Out:  $-605.599 \pm 0.000$   $\chi^2/\text{NDF}: 146641318103644748879900892058773094400.0/17$   
 Left In:  $-816.958 \pm 0.000$   $\chi^2/\text{NDF}: 90193686816714640570749106655187697664.0/10$   
 All:  $10.279 \pm 0.000$   $\chi^2/\text{NDF}: 2361685161076$

dit\_sam3\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

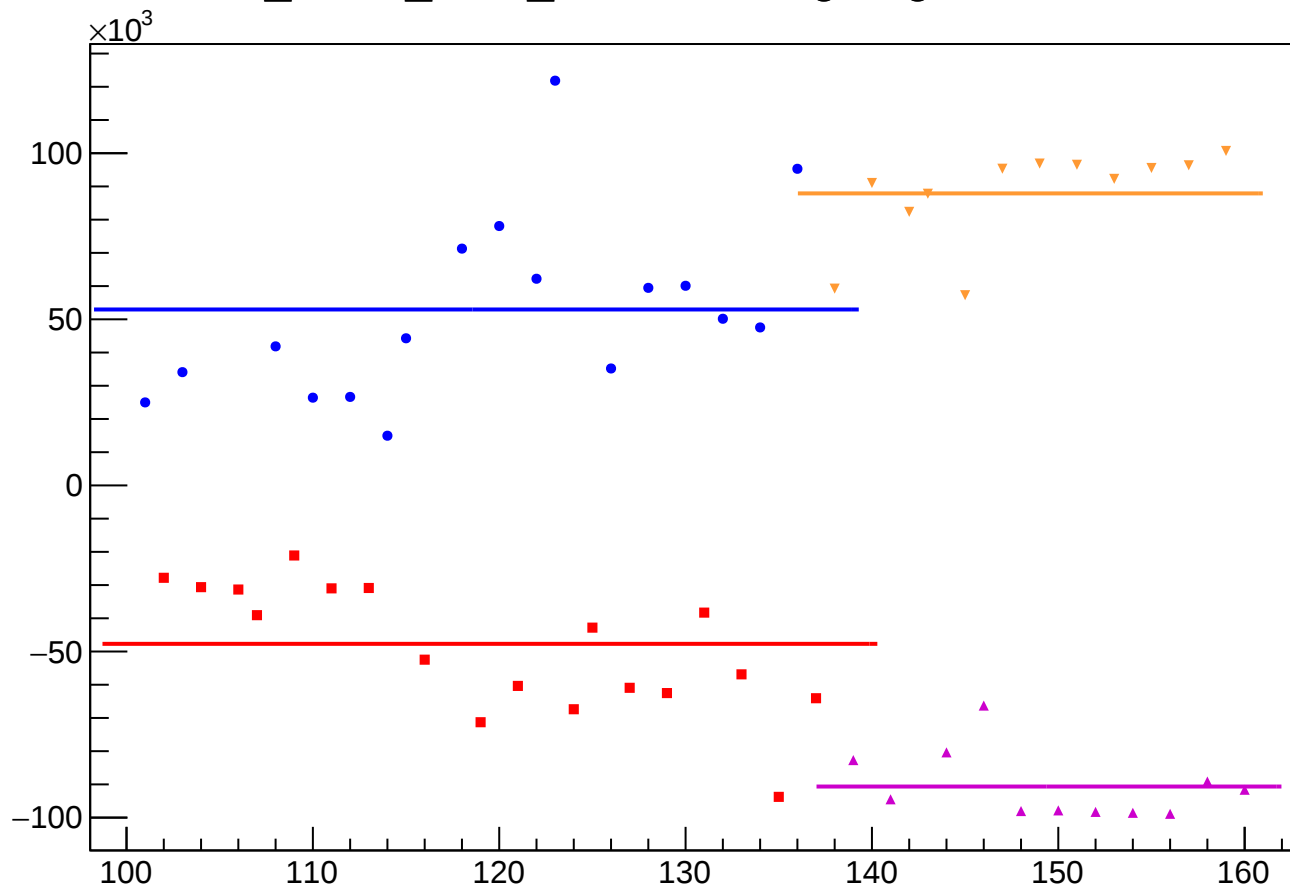
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam4\_coil1\_mean vs Slug, Sign Corrected



Right In: 52960.923+/-0.000

$\chi^2/\text{NDF}$ : 388091282862865702902242590456549457526784.0/16

Left Out: 87902.834+/-0.000

$\chi^2/\text{NDF}$ : 181078064018170990794226695799487636439040.0/11

Right Out: -47689.948+/-0.000

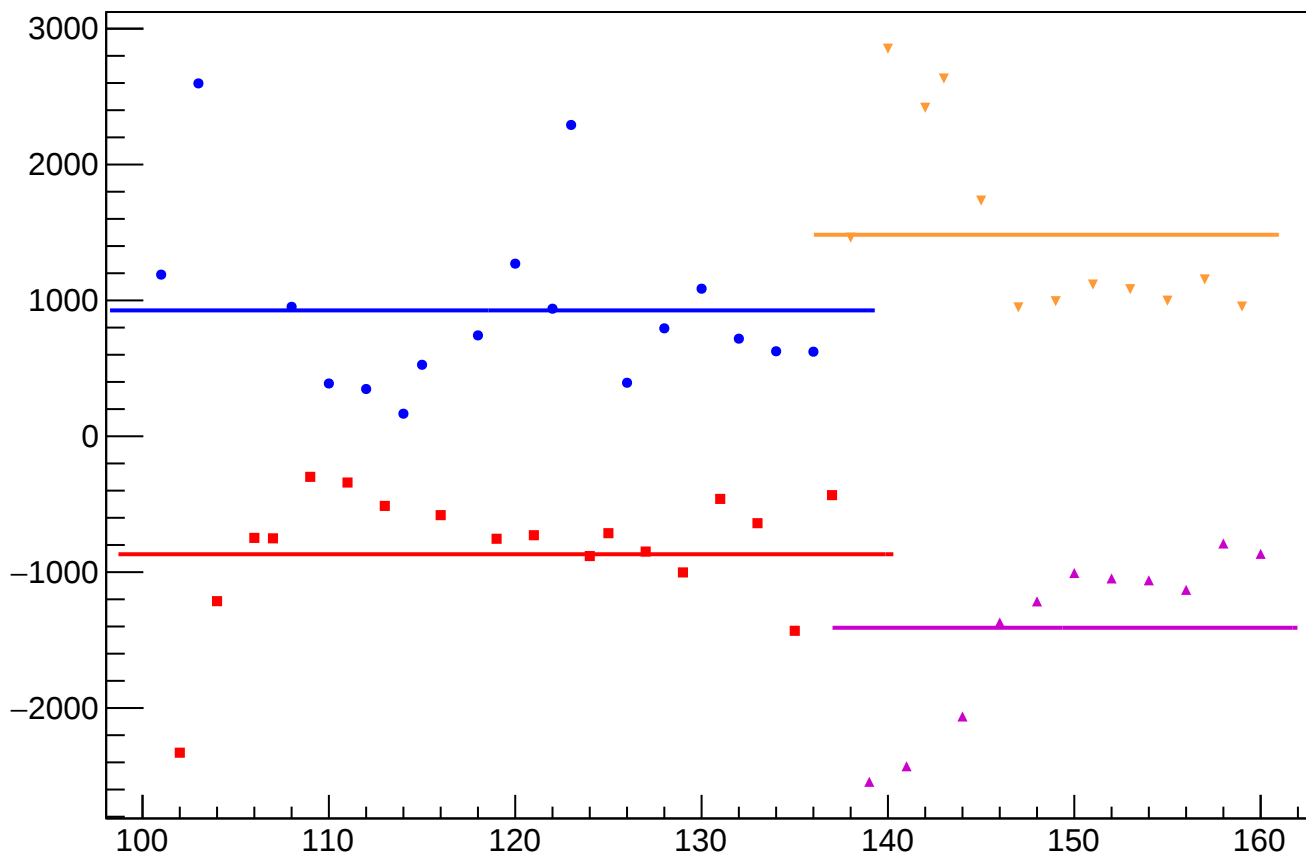
$\chi^2/\text{NDF}$ : 282811495062805394257124892434373518819328.0/17

Left In: -90642.606+/-0.000

$\chi^2/\text{NDF}$ : 90652199115187667262863496655433124282368.0/10

All: -618.058+/-0.000  $\chi^2/\text{NDF}$ : 19203474335

# dit\_sam4\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 926.486+/-0.000

$\chi^2/\text{NDF}$ : 243573676873909042150690872266806263808.0/16

Left Out: 1483.109+/-0.000

$\chi^2/\text{NDF}$ : 403083502170691493450426839772184969216.0/11

Right Out: -868.248+/-0.000

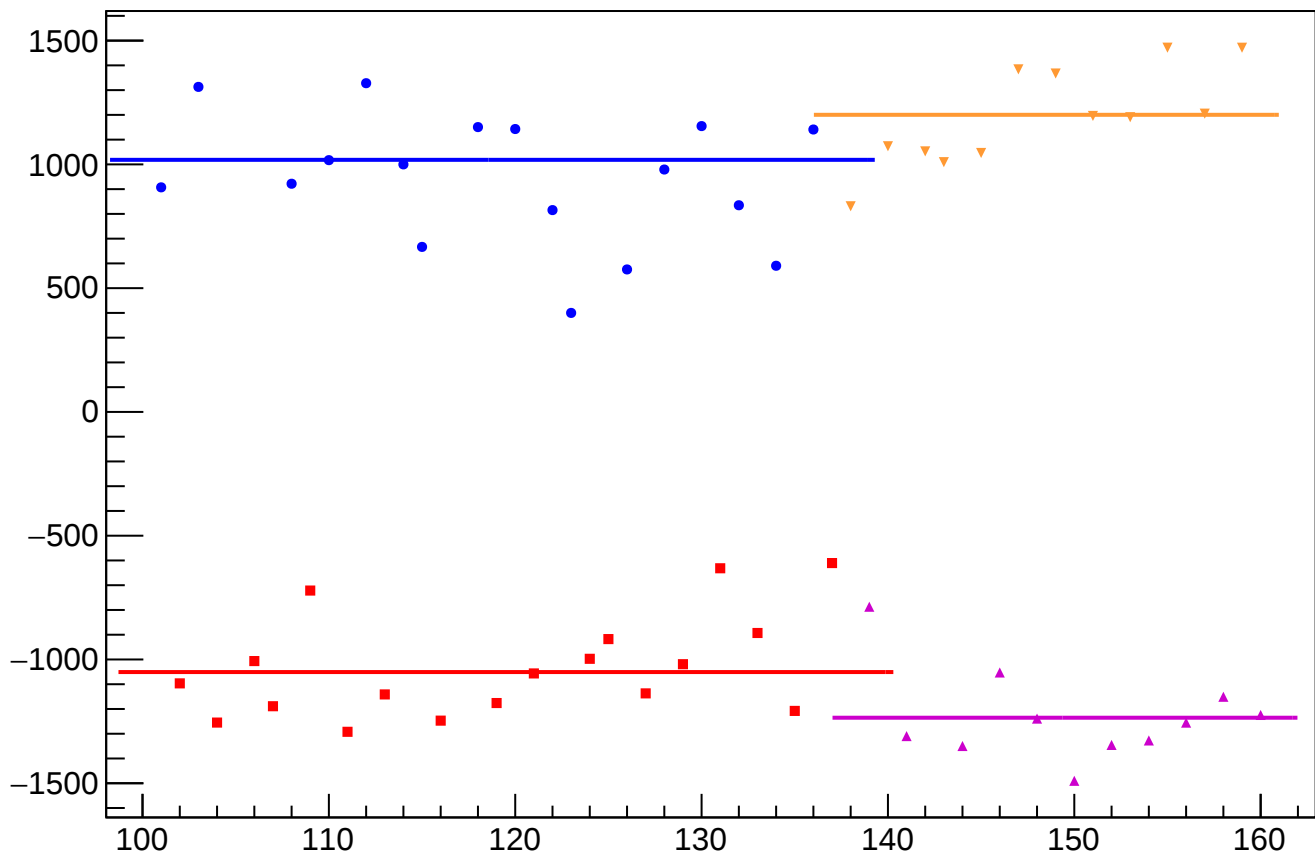
$\chi^2/\text{NDF}$ : 197961184826469333991871261895452262400.0/17

Left In: -1409.297+/-0.000

$\chi^2/\text{NDF}$ : 332711527563971352496330414058593320960.0/10

All: 17.058+/-0.000  $\chi^2/\text{NDF}$ : 6163599514436

dit\_sam4\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

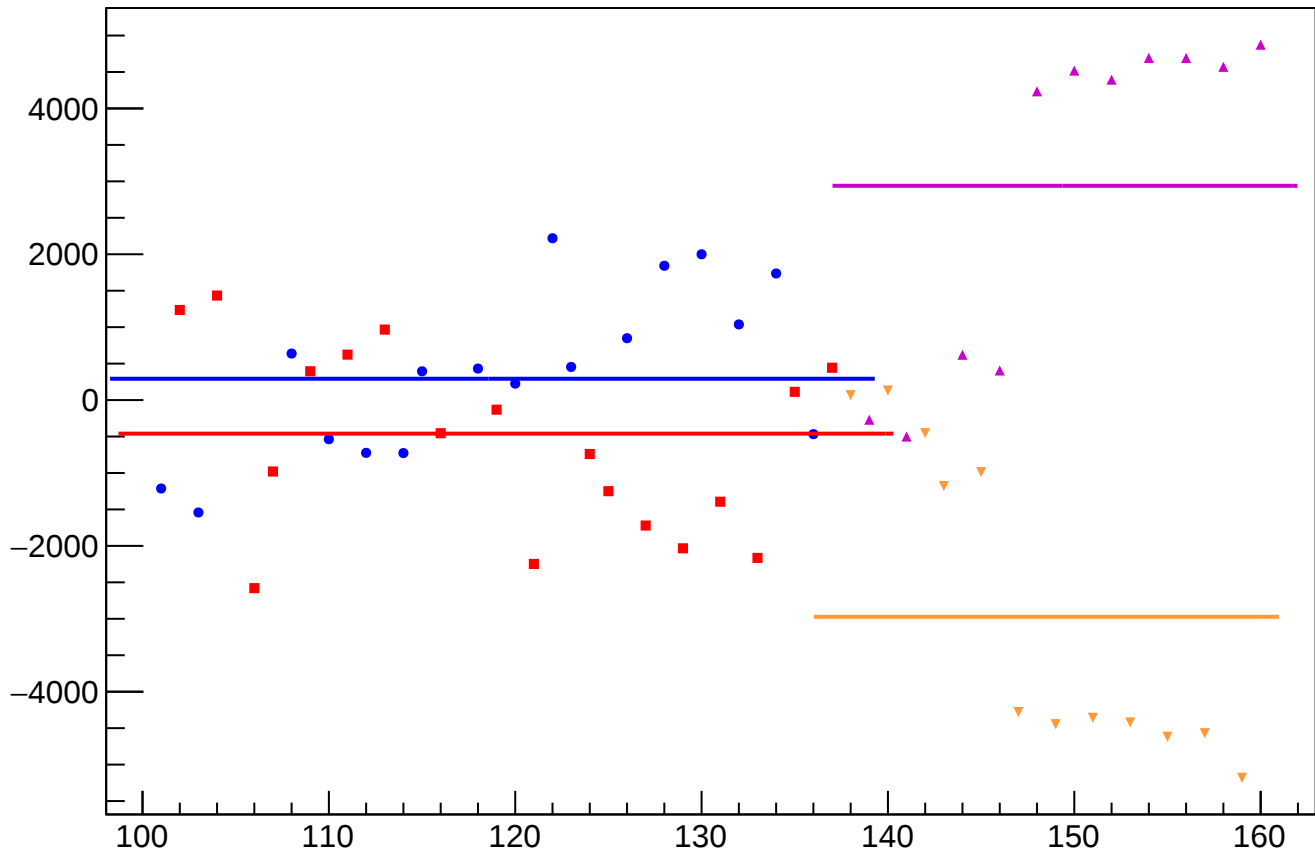
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

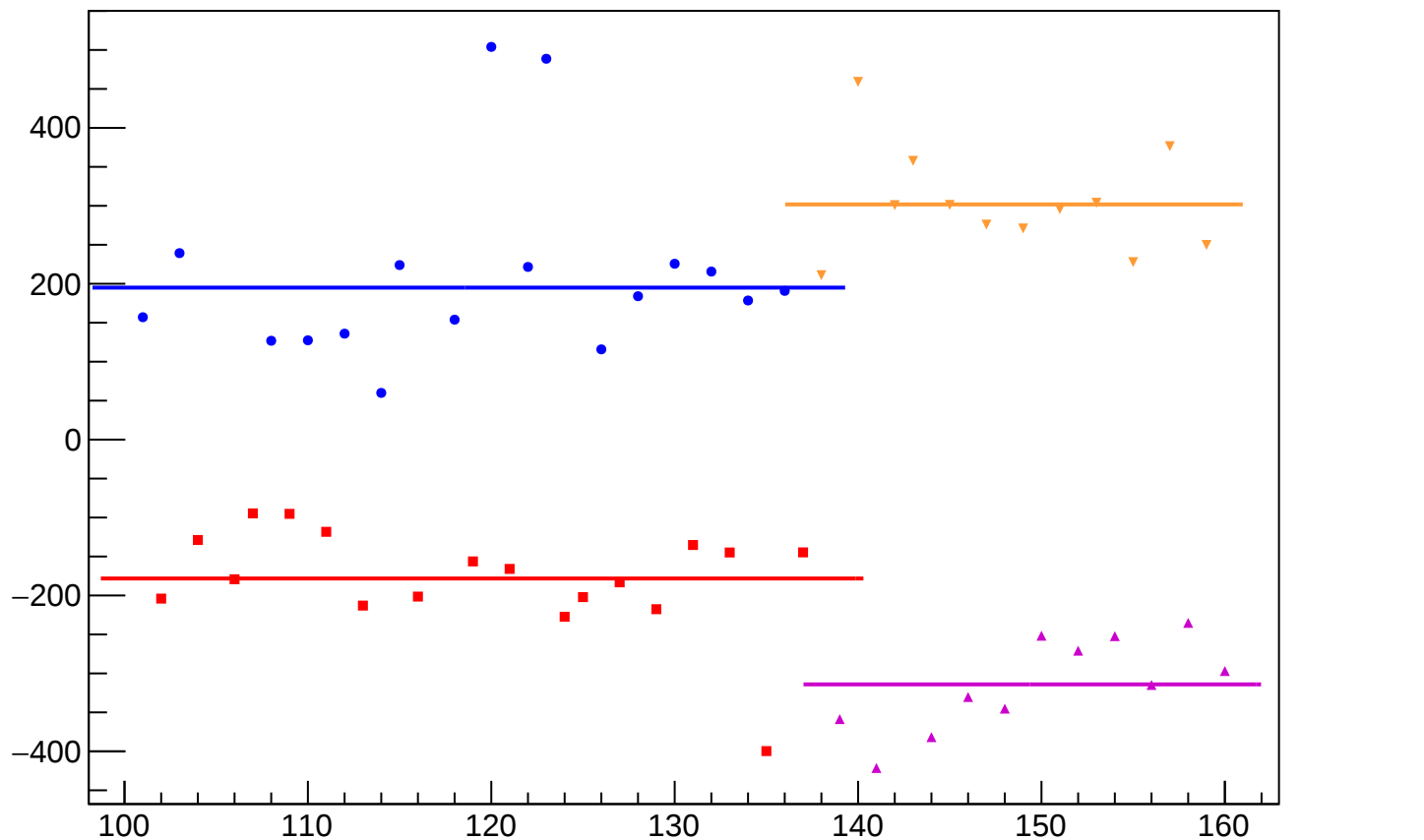
All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam5\_coil1\_mean vs Slug, Sign Corrected



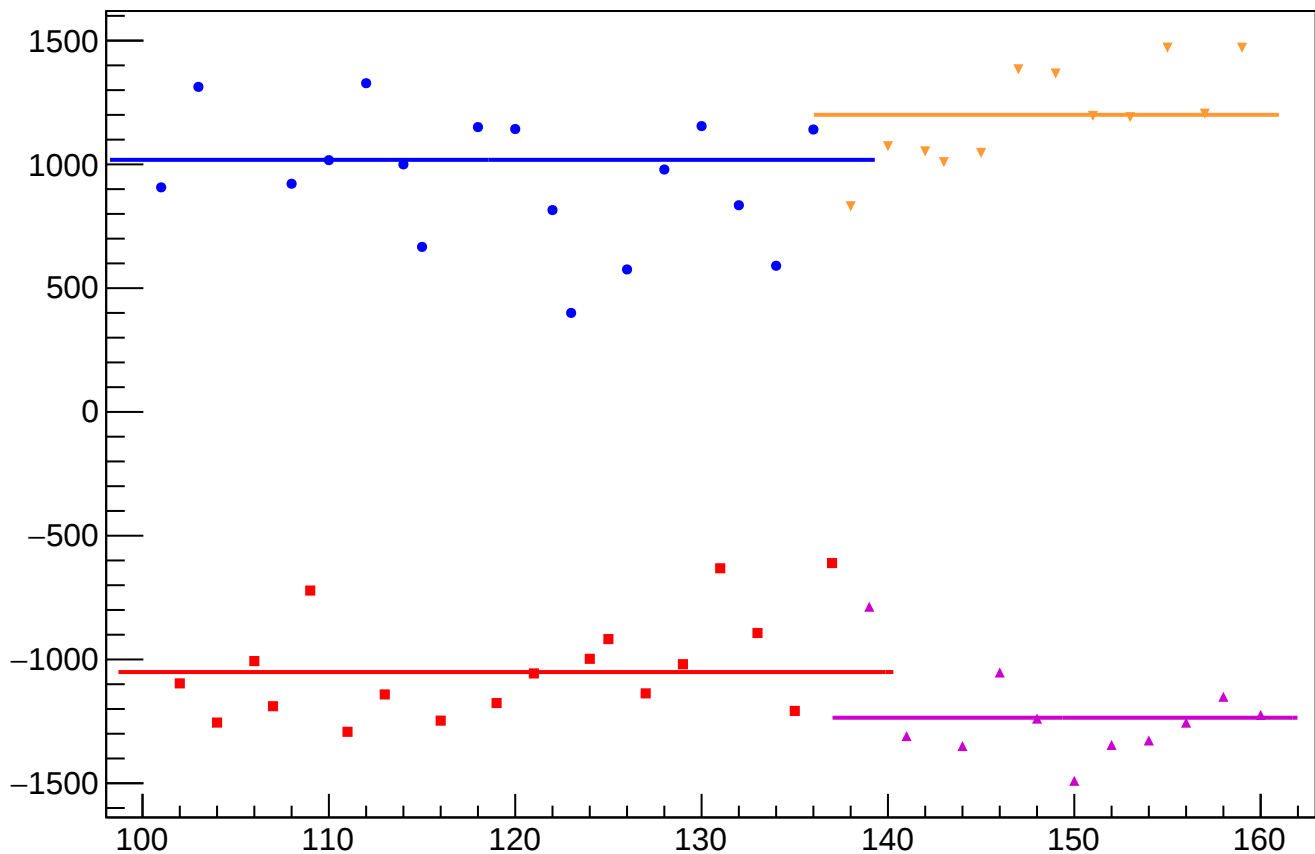
Right In: 292.624+/-0.000  $\chi^2/\text{NDF}$ : 992224758361668568621384832231814463488.0/16  
 Left Out: -2972.256+/-0.000  $\chi^2/\text{NDF}$ : 3761676179645694438437077561605877661696.0/11  
 Right Out: -460.444+/-0.000  $\chi^2/\text{NDF}$ : 1195390620297922800798852366593102446592.0/17  
 Left In: 2938.958+/-0.000  $\chi^2/\text{NDF}$ : 4448330371719931217957339295057738465280.0/10  
 All: -26.413+/-0.000  $\chi^2/\text{NDF}$ : 266955138197

dit\_sam5\_coil1\_err\_mean vs Slug, Sign Corrected



Right In:  $195.049 \pm 0.000$   $\chi^2/\text{NDF}: 5080024494184824251769530857650388992.0/16$   
 Left Out:  $301.805 \pm 0.000$   $\chi^2/\text{NDF}: 4084053009607102608824389490062655488.0/11$   
 Right Out:  $-178.222 \pm 0.000$   $\chi^2/\text{NDF}: 3636798558444840391154572885518974976.0/17$   
 Left In:  $-314.075 \pm 0.000$   $\chi^2/\text{NDF}: 3038378746515633770905831871124340736.0/10$   
 All:  $-3.309 \pm 0.000$   $\chi^2/\text{NDF}: 2397479311917$

dit\_sam5\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

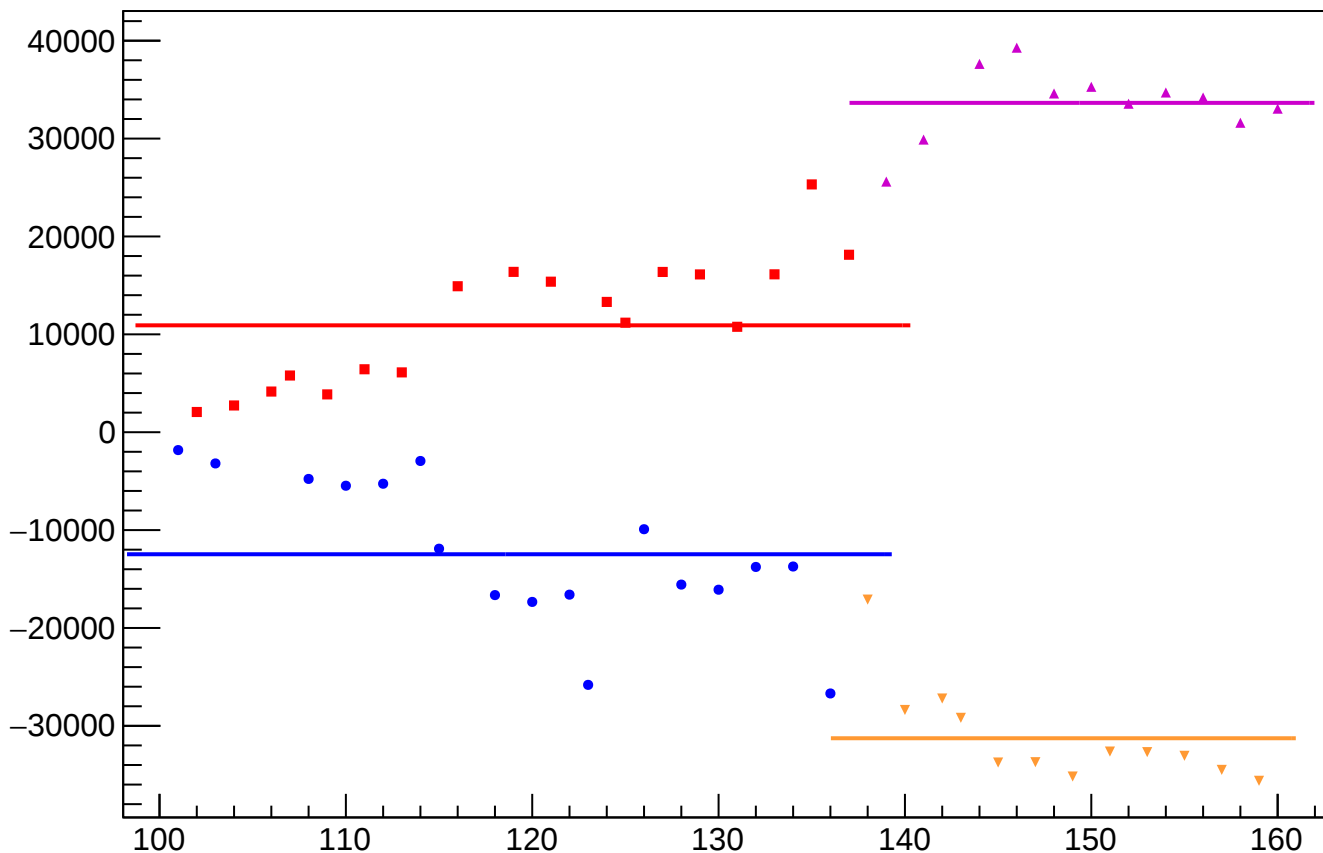
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

dit\_sam6\_coil1\_mean vs Slug, Sign Corrected



Right In: -12468.200+/-0.000

Left Out: -31267.411+/-0.000

Right Out: 10920.089+/-0.000

Left In: 33648.648+/-0.000

$\chi^2/\text{NDF}$ : 41947810781860597740124287766684235726848.0/16

$\chi^2/\text{NDF}$ : 22472352508992692811157309504314979385344.0/11

$\chi^2/\text{NDF}$ : 32165705228240657588124121675327793528832.0/17

$\chi^2/\text{NDF}$ : 11296625028325119552839806860927105499136.0/10

Left: 1613.524+/-0.000  $\chi^2/\text{NDF}$ : 197403017613361

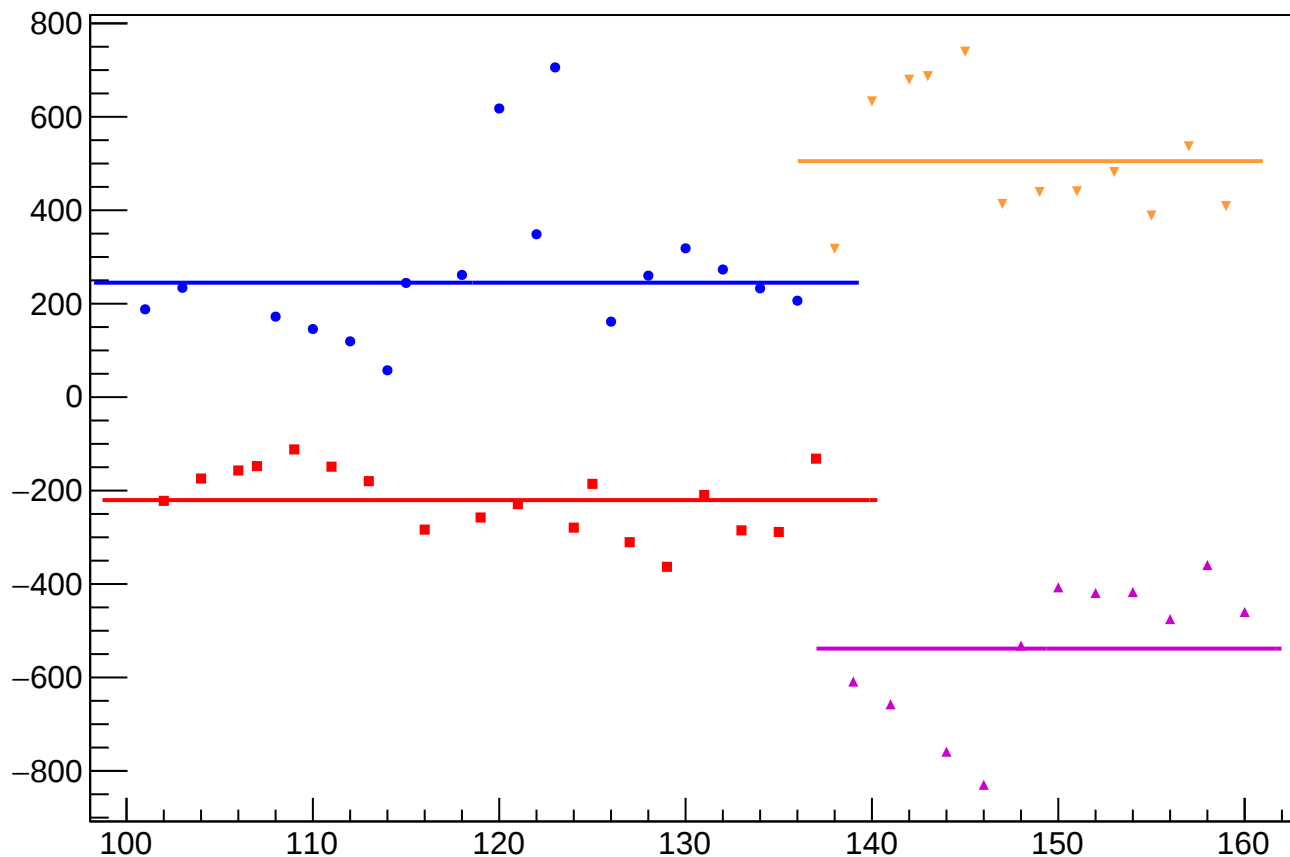
Right: -599.764+/-0.000  $\chi^2/\text{NDF}$ : 26675570352748

In: 13977.417+/-0.000  $\chi^2/\text{NDF}$ : 899638855582908

Out: -12693.481+/-0.000  $\chi^2/\text{NDF}$ : 7669192539655

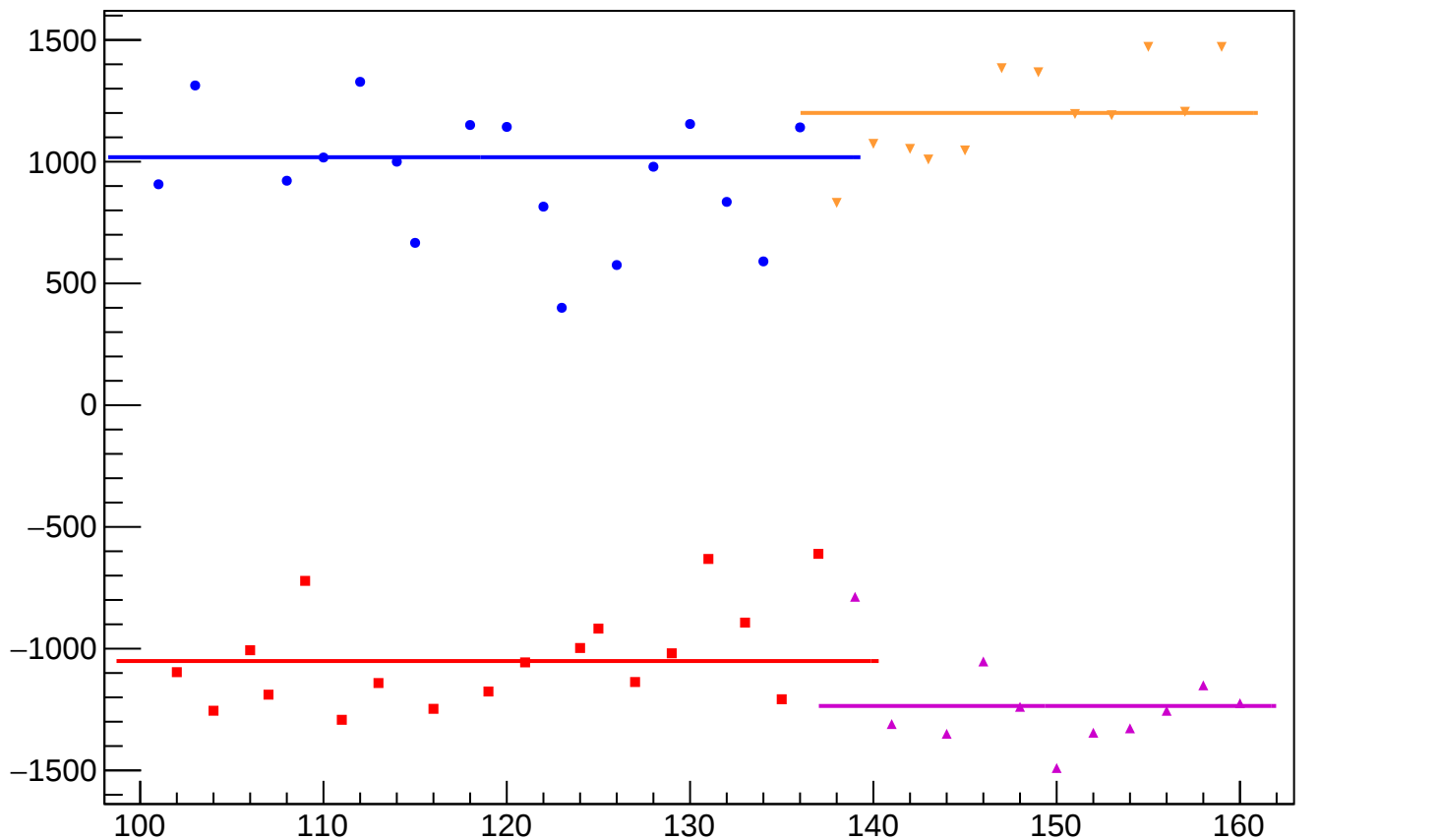
All: 654.274+/-0.000  $\chi^2/\text{NDF}$ : 224469662532

dit\_sam6\_coil1\_err\_mean vs Slug, Sign Corrected



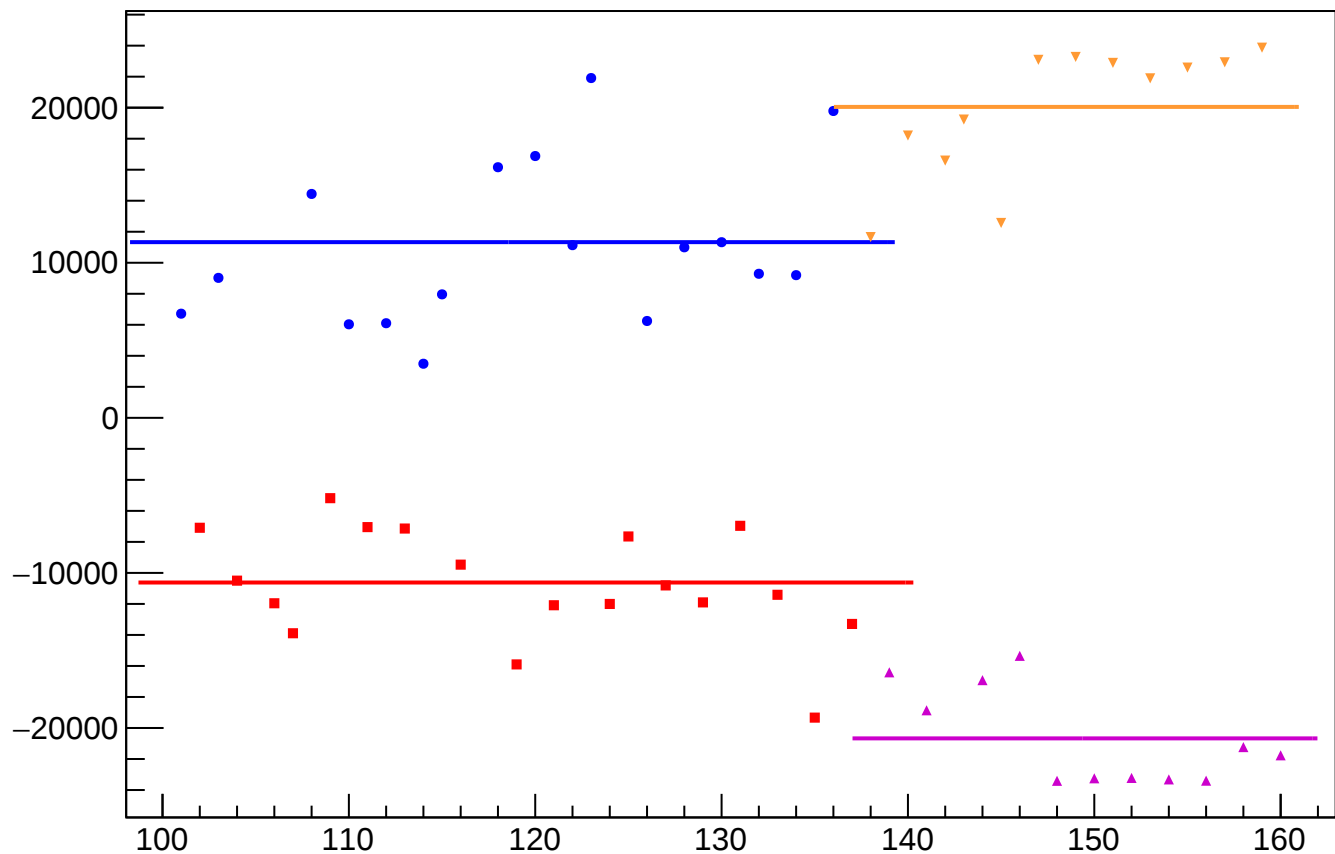
Right In: 244.994 $\pm$ 0.000  $\chi^2$ /NDF: 8873183370170999334634045001787506688.0/16  
 Left Out: 505.129 $\pm$ 0.000  $\chi^2$ /NDF: 15272519684305825551143996818058117120.0/11  
 Right Out: -220.353 $\pm$ 0.000  $\chi^2$ /NDF: 3356691284213126680510243475038404608.0/17  
 Left In: -538.207 $\pm$ 0.000  $\chi^2$ /NDF: 20524569412911645618745037593493110784.0/10  
 All: -9.385 $\pm$ 0.000  $\chi^2$ /NDF: 6263080499592

dit\_sam6\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 1200.293+/-0.000  $\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -1235.313+/-0.000  $\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam7\_coil1\_mean vs Slug, Sign Corrected



Right In: 11329.210+/-0.000

$\chi^2/\text{NDF}$ : 15521857033868622025770129635391850938368.0/16

Left Out: 20050.081+/-0.000

$\chi^2/\text{NDF}$ : 15531978446555800166104970917231932211200.0/11

Right Out: -10619.182+/-0.000

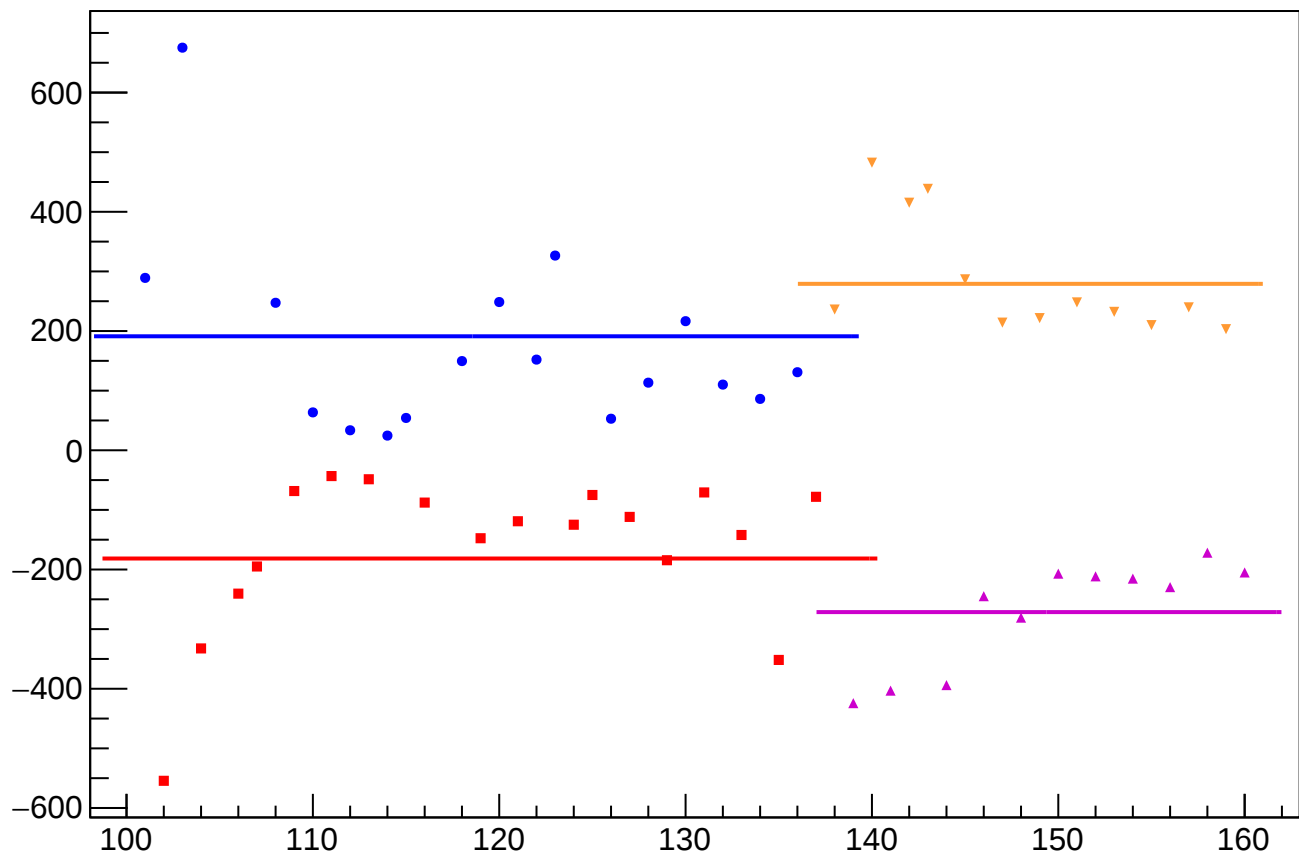
$\chi^2/\text{NDF}$ : 10071633014201515414626302207213810221056.0/17

Left In: -20670.726+/-0.000

$\chi^2/\text{NDF}$ : 8494858406573564863789120894069960081408.0/10

Left: -575.604+/-0.000  $\chi^2/\text{NDF}$ : 787490977590179  
 Right: 191.453+/-0.000  $\chi^2/\text{NDF}$ : 195245861840049  
 In: -7021.091+/-0.000  $\chi^2/\text{NDF}$ : 431539395556195  
 Out: 6547.296+/-0.000  $\chi^2/\text{NDF}$ : 402039102823290  
 All: -243.158+/-0.000  $\chi^2/\text{NDF}$ : 98320655990

dit\_sam7\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 191.191+/-0.000

$\chi^2/\text{NDF}$ : 19183697593820495387775377202474909696.0/16

Left Out: 279.165+/-0.000

$\chi^2/\text{NDF}$ : 7920210699485411791931517458268028928.0/11

Right Out: -181.551+/-0.000

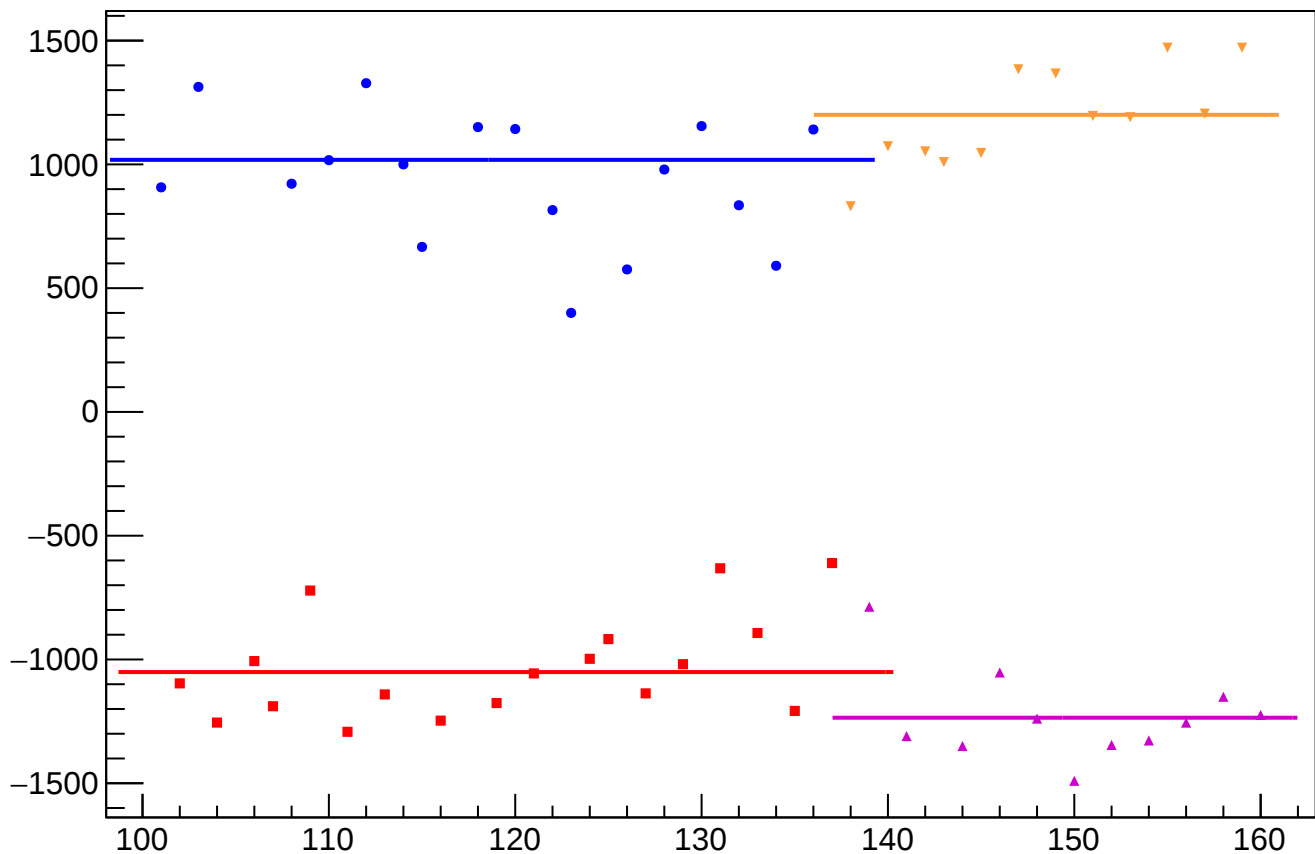
$\chi^2/\text{NDF}$ : 14852803264995019247576775913608577024.0/17

Left In: -271.426+/-0.000

$\chi^2/\text{NDF}$ : 7049081855860572674907173749109293056.0/10

All: 1.045+/-0.000  $\chi^2/\text{NDF}$ : 23751463159160

dit\_sam7\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

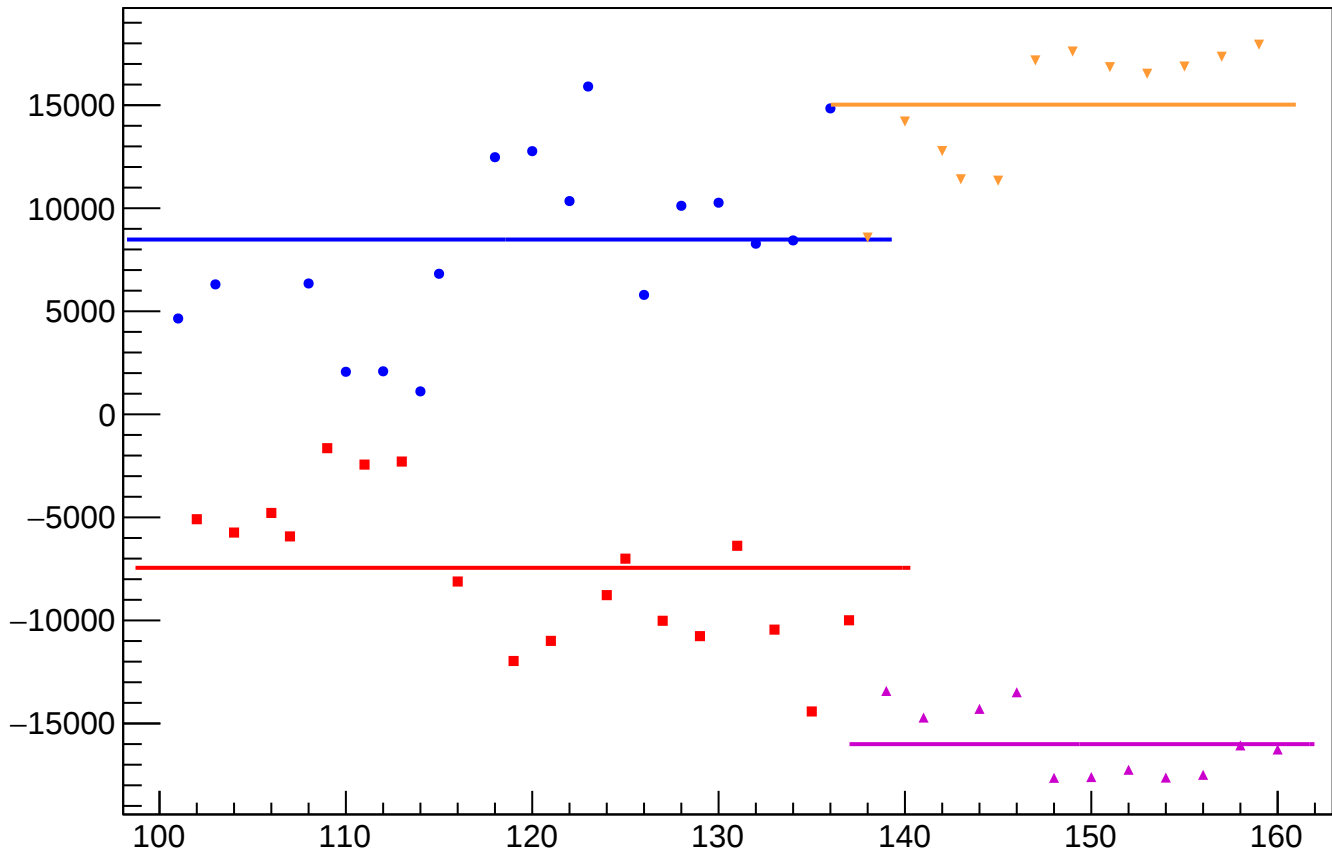
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

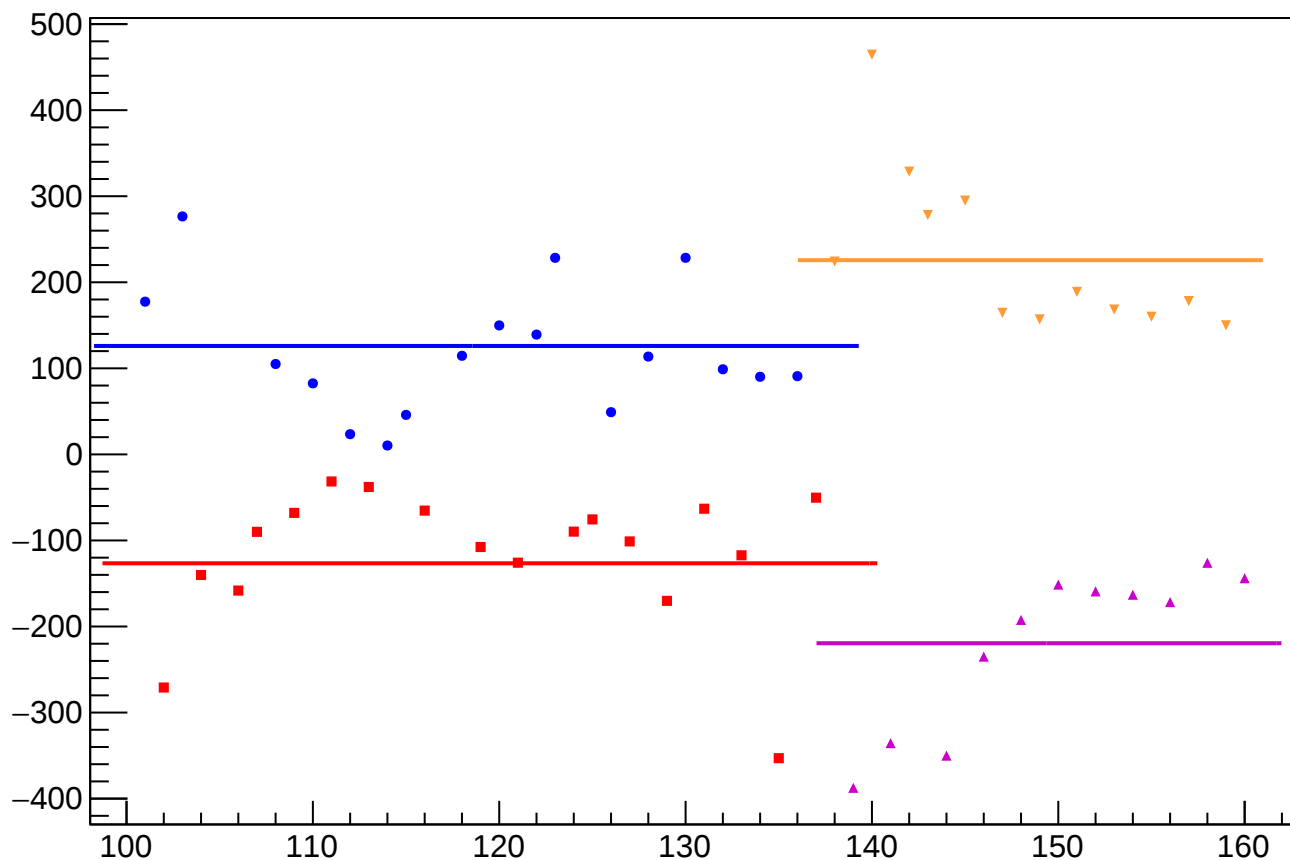
All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam8\_coil1\_mean vs Slug, Sign Corrected



Left: -690.569 +/- 0.000  $\chi^2/\text{NDF}$ : 453938859175611  
 Right In: 8480.889 +/- 0.000  $\chi^2/\text{NDF}$ : 11499484754166446401410720405854359650304.0/16  
 Right: 398.138 +/- 0.000  $\chi^2/\text{NDF}$ : 110892866685720  
 Left Out: 15025.757 +/- 0.000  $\chi^2/\text{NDF}$ : 8187740092033082050104349904869741559808.0/11  
 In: -5559.130 +/- 0.000  $\chi^2/\text{NDF}$ : 252536611312821  
 Right Out: -7447.217 +/- 0.000  $\chi^2/\text{NDF}$ : 10045808642952263494281474112188504342528.0/17  
 Out: 5131.560 +/- 0.000  $\chi^2/\text{NDF}$ : 220351551801911  
 Left In: -16002.617 +/- 0.000  $\chi^2/\text{NDF}$ : 2475406713829870725608341548092805349376.0/10  
 All: -218.717 +/- 0.000  $\chi^2/\text{NDF}$ : 56577797578

dit\_sam8\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 126.005 +/- 0.000  $\chi^2/\text{NDF}$ : 3386025781144831306970150054630785024.0/16

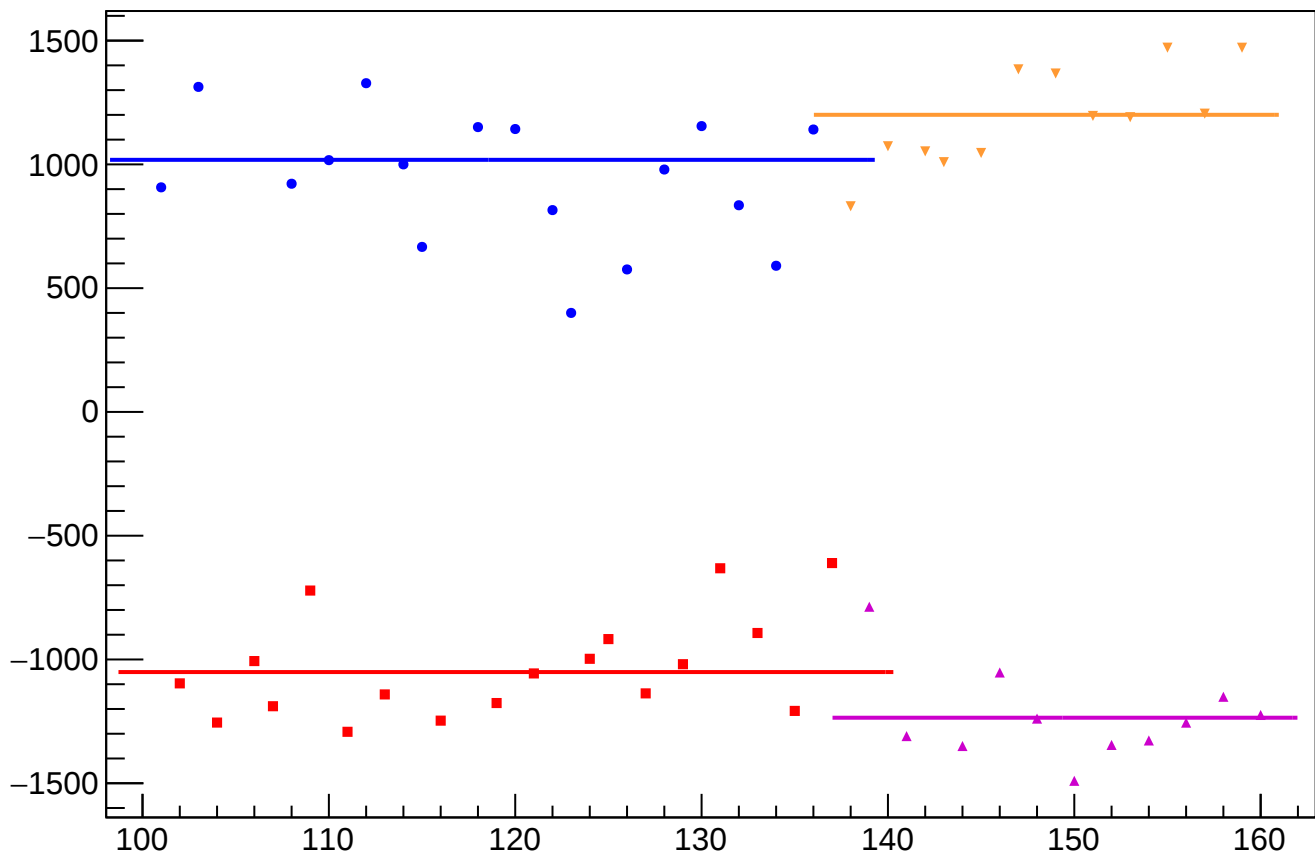
Left Out: 225.692 +/- 0.000  $\chi^2/\text{NDF}$ : 7765824995412425286122153901765427200.0/11

Right Out: -126.521 +/- 0.000  $\chi^2/\text{NDF}$ : 5291778643595712336156745298356469760.0/17

Left In: -219.416 +/- 0.000  $\chi^2/\text{NDF}$ : 7417643300202175953458768997657870336.0/10

All: -0.792 +/- 0.000  $\chi^2/\text{NDF}$ : 1375428140001

dit\_sam8\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 1200.293+/-0.000

$\chi^2/\text{NDF}$ : 34024831893478856274932660157533913088.0/11

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

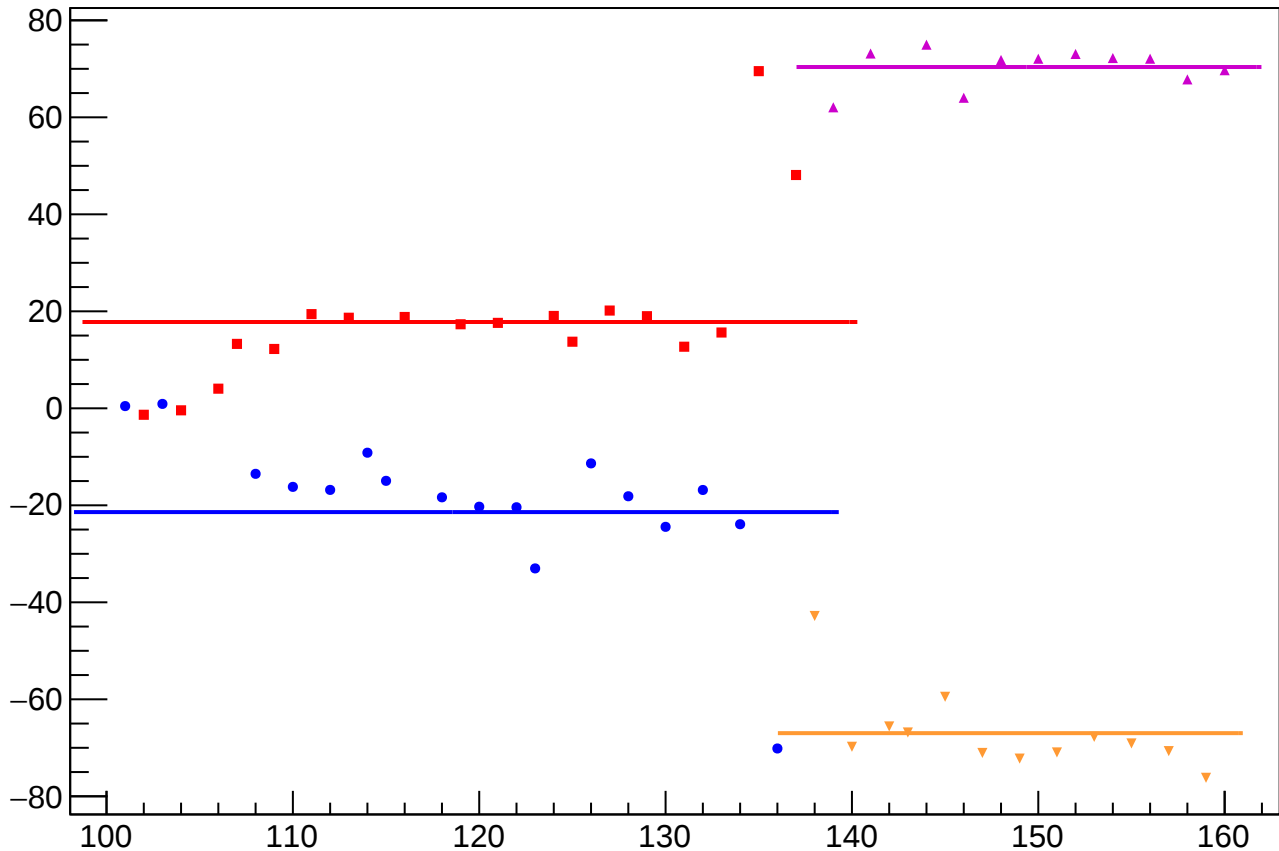
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_4aX\_coil3\_mean vs Slug, Sign Corrected



Right In: -21.398+/-0.000

Left Out: -66.978+/-0.000

Right Out: 17.797+/-0.000

Left In: 70.373+/-0.000

$\chi^2/\text{NDF}$ : 280536163120367747156314867523125248.0/16

$\chi^2/\text{NDF}$ : 63685898995814955491327915677712384.0/11

$\chi^2/\text{NDF}$ : 194445073804421906744756784211165184.0/17

$\chi^2/\text{NDF}$ : 13651024036120663482420235694243840.0/10

Left: 2.593+/-0.000  $\chi^2/\text{NDF}$ : 876339460112886704

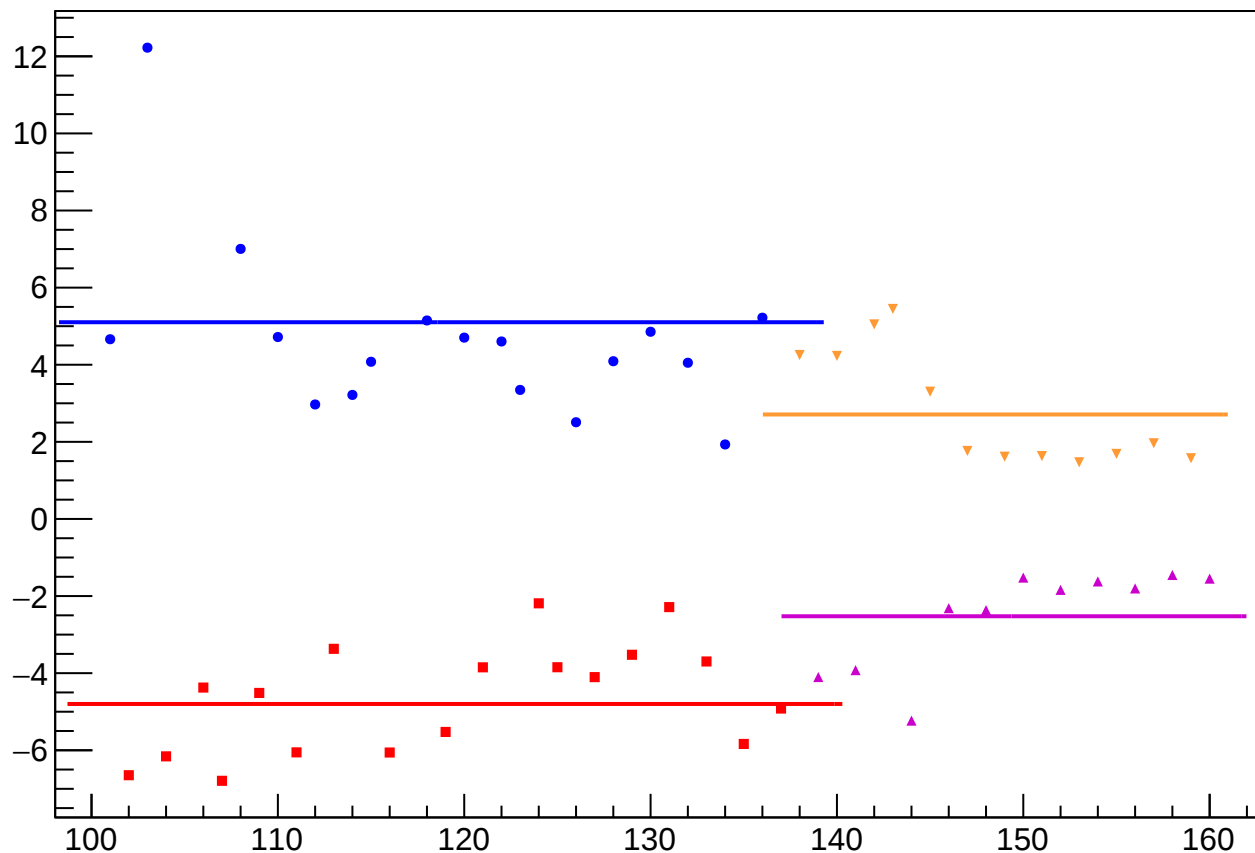
Right: -1.508+/-0.000  $\chi^2/\text{NDF}$ : 1016004524366776

In: 31.228+/-0.000  $\chi^2/\text{NDF}$ : 364590997296743211

Out: -29.654+/-0.000  $\chi^2/\text{NDF}$ : 3134342076596481

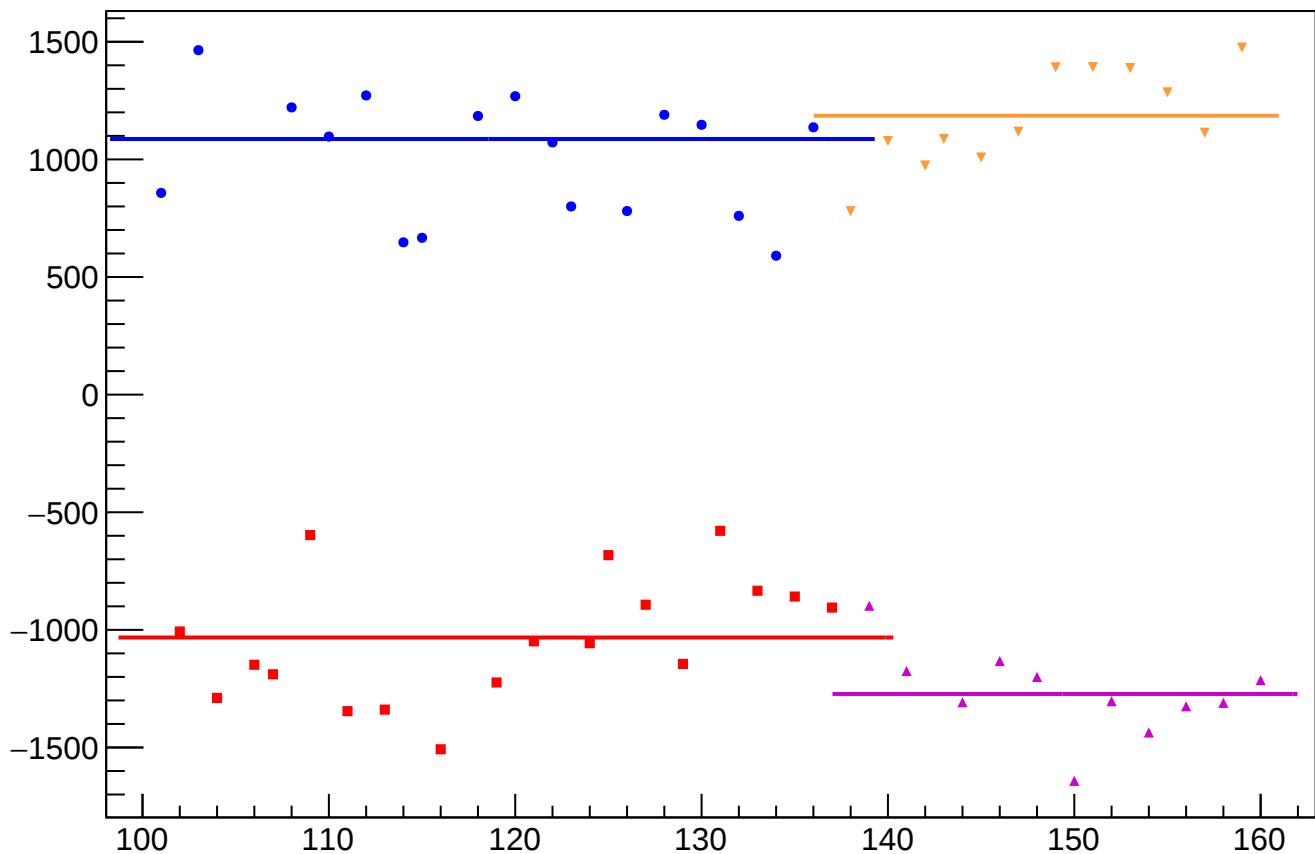
All: 0.815+/-0.000  $\chi^2/\text{NDF}$ : 97928246020073

dit\_4aX\_coil3\_err\_mean vs Slug, Sign Corrected



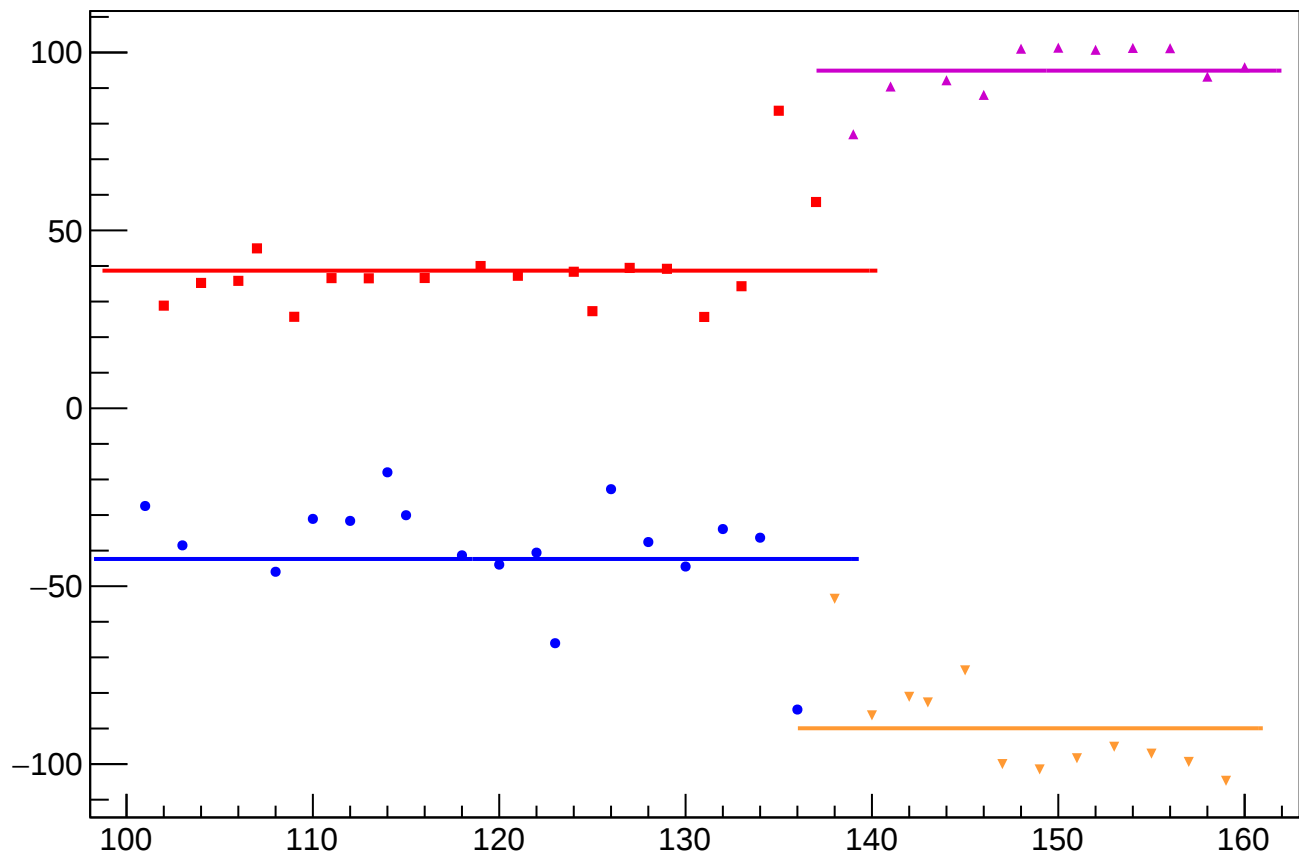
Right In: 5.103 $\pm$ 0.000  $\chi^2$ /NDF: 4048406978190508053530993177395200.0/16  
 Left Out: 2.710 $\pm$ 0.000  $\chi^2$ /NDF: 1774159043511346014201510128254976.0/11  
 Right Out: -4.799 $\pm$ 0.000  $\chi^2$ /NDF: 1271869445641912698697536291995648.0/17  
 Left In: -2.524 $\pm$ 0.000  $\chi^2$ /NDF: 1443854563513341294387646202642432.0/10  
 All: 0.067 $\pm$ 0.000  $\chi^2$ /NDF: 55678277230235

dit\_4aX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

dit\_4eX\_coil3\_mean vs Slug, Sign Corrected



Right In: -42.348+/-0.000

Left Out: -89.931+/-0.000

Right Out: 38.687+/-0.000

Left In: 94.901+/-0.000

$\chi^2/\text{NDF}$ : 214487265312366042421757259213176832.0/16

$\chi^2/\text{NDF}$ : 187167251032127788176867775297355776.0/11

$\chi^2/\text{NDF}$ : 132884782523479402209438367825788928.0/17

$\chi^2/\text{NDF}$ : 49160458871676913814520414202757120.0/10

Left: 3.689+/-0.000  $\chi^2/\text{NDF}$ : 159656581225915096

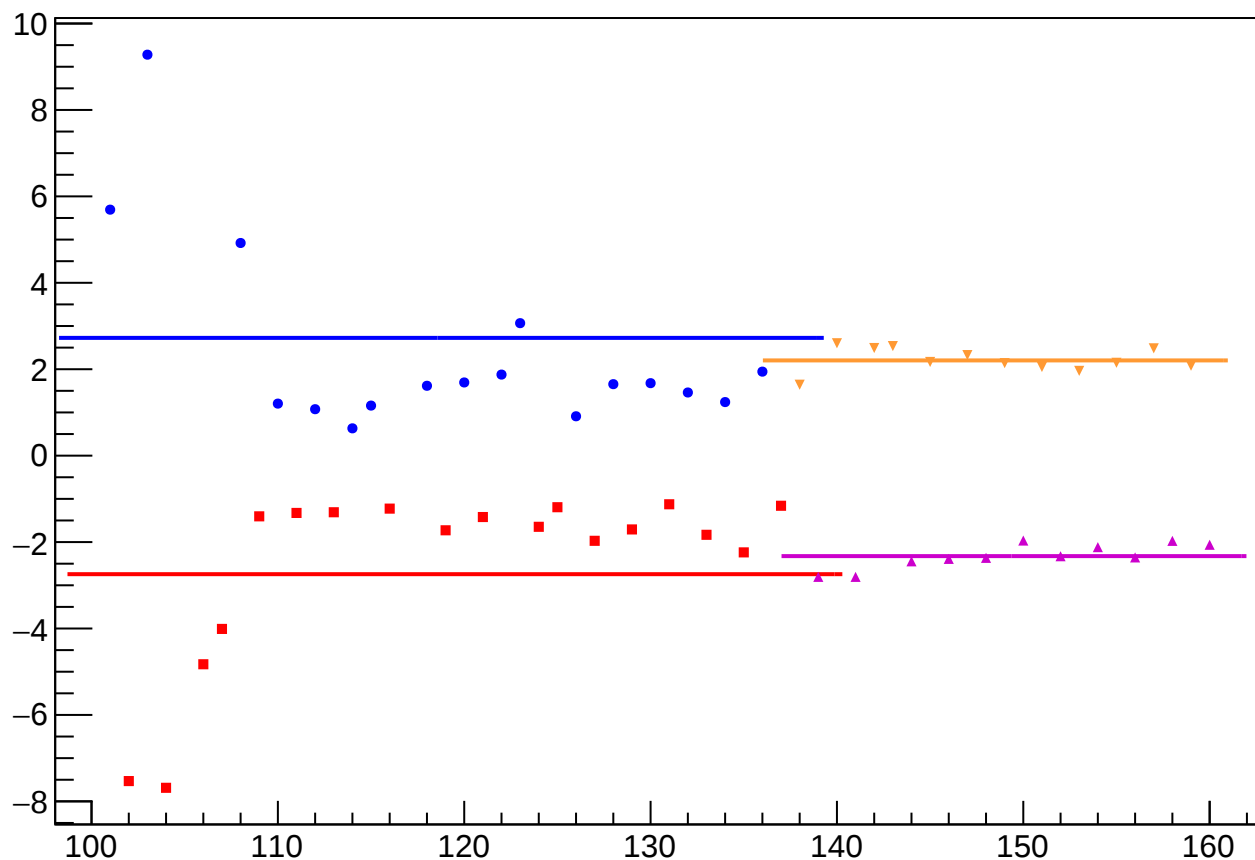
Right: -1.226+/-0.000  $\chi^2/\text{NDF}$ : 2659977091062519

In: 36.357+/-0.000  $\chi^2/\text{NDF}$ : 776037945443292169

Out: -33.304+/-0.000  $\chi^2/\text{NDF}$ : 6940516204701080

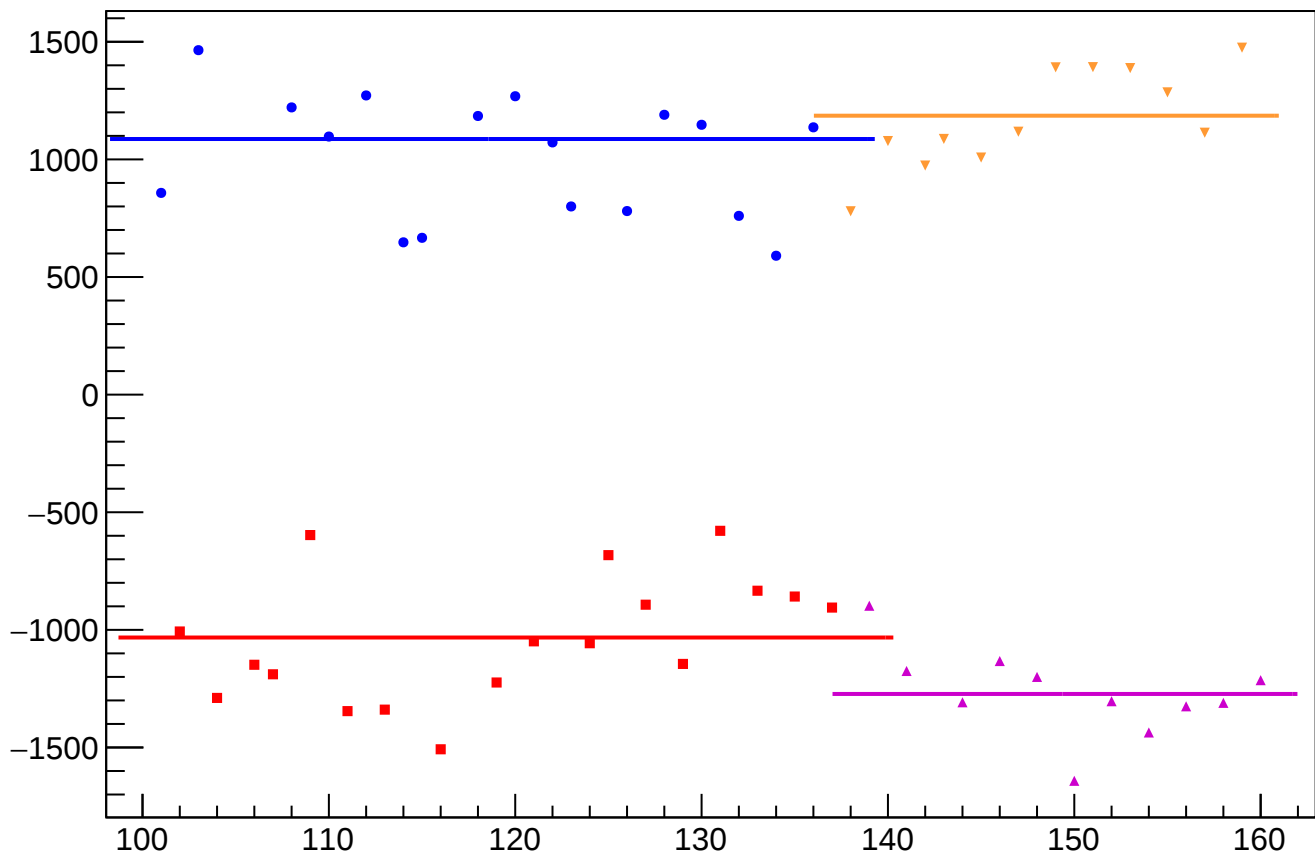
All: 1.559+/-0.000  $\chi^2/\text{NDF}$ : 18644925895826

# dit\_4eX\_coil3\_err\_mean vs Slug, Sign Corrected



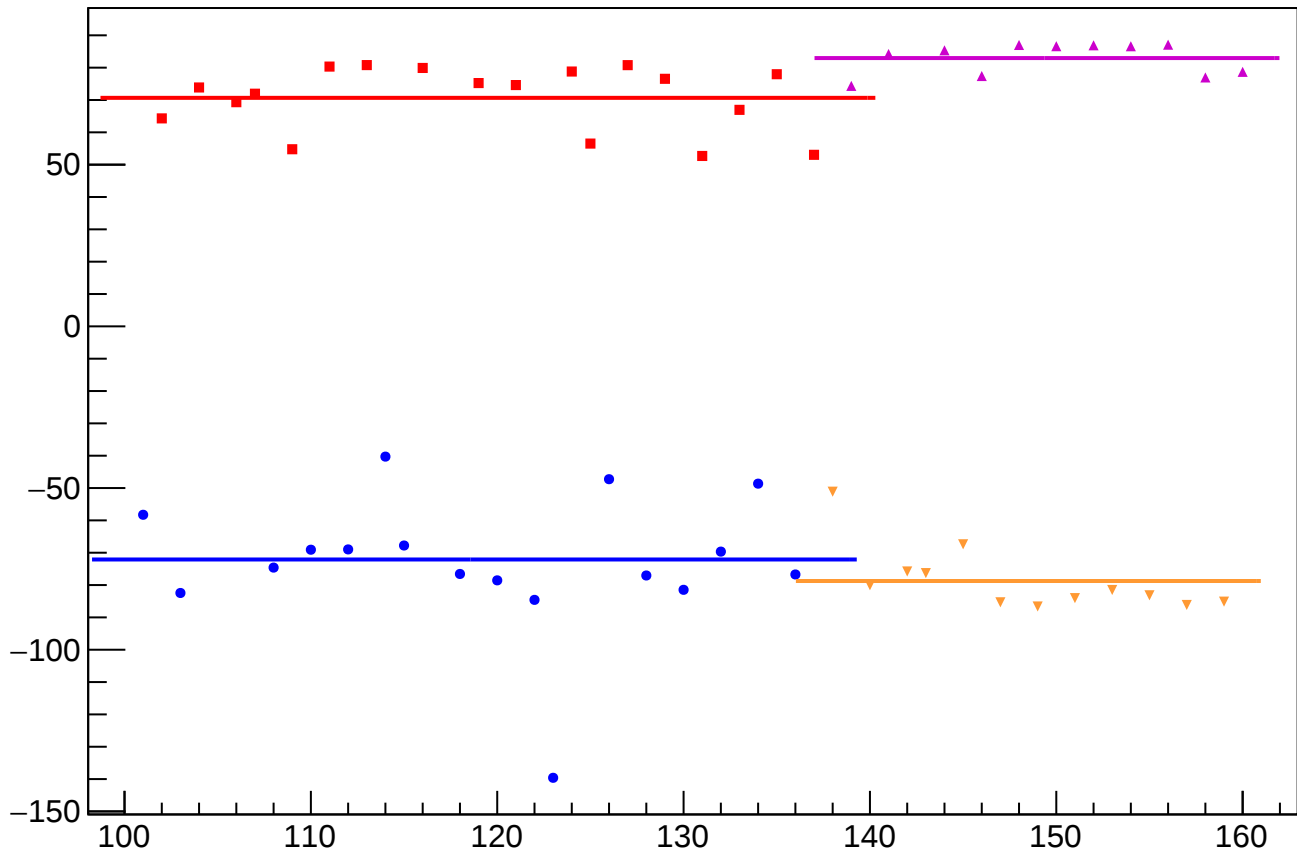
Right In: 2.726 $\pm$ 0.000  $\chi^2$ /NDF: 4086214221048218627232910568062976.0/16  
 Left Out: 2.204 $\pm$ 0.000  $\chi^2$ /NDF: 64341762429168624767253736325120.0/11  
 Right Out: -2.743 $\pm$ 0.000  $\chi^2$ /NDF: 3588318821230369709737363581698048.0/17  
 Left In: -2.325 $\pm$ 0.000  $\chi^2$ /NDF: 71570259822113159465865385607168.0/10  
 All: -0.072 $\pm$ 0.000  $\chi^2$ /NDF: 2778523853871

dit\_4eX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1086.695+/-0.000   | $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16 | Left: -59.351+/-0.000              | $\chi^2/\text{NDF}$ : 2849915835351934 |
| Left Out: 1185.823+/-0.000   | $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11 | Right: 11.282+/-0.000              | $\chi^2/\text{NDF}$ : 1663891694726158 |
| Right Out: -1032.544+/-0.000 | $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17 | In: -266.178+/-0.000               | $\chi^2/\text{NDF}$ : 2279519380852013 |
| Left In: -1272.495+/-0.000   | $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10 | Out: 209.140+/-0.000               | $\chi^2/\text{NDF}$ : 2054648458206867 |
|                              | All: -28.738+/-0.000                                              | $\chi^2/\text{NDF}$ : 451779050699 |                                        |

# dit\_11X12X\_coil3\_mean vs Slug, Sign Corrected



Right In: -72.094+/-0.000

Left Out: -78.747+/-0.000

Right Out: 70.666+/-0.000

Left In: 82.966+/-0.000

$\chi^2/\text{NDF}$ : 103075229118962583323813478911705088.0/16

$\chi^2/\text{NDF}$ : 90789525072060271629933547446337536.0/11

$\chi^2/\text{NDF}$ : 63521582322355548765057214851317760.0/17

$\chi^2/\text{NDF}$ : 20132204805005576765090308057726976.0/10

Left: 3.163+/-0.000  $\chi^2/\text{NDF}$ : 121514630623973577

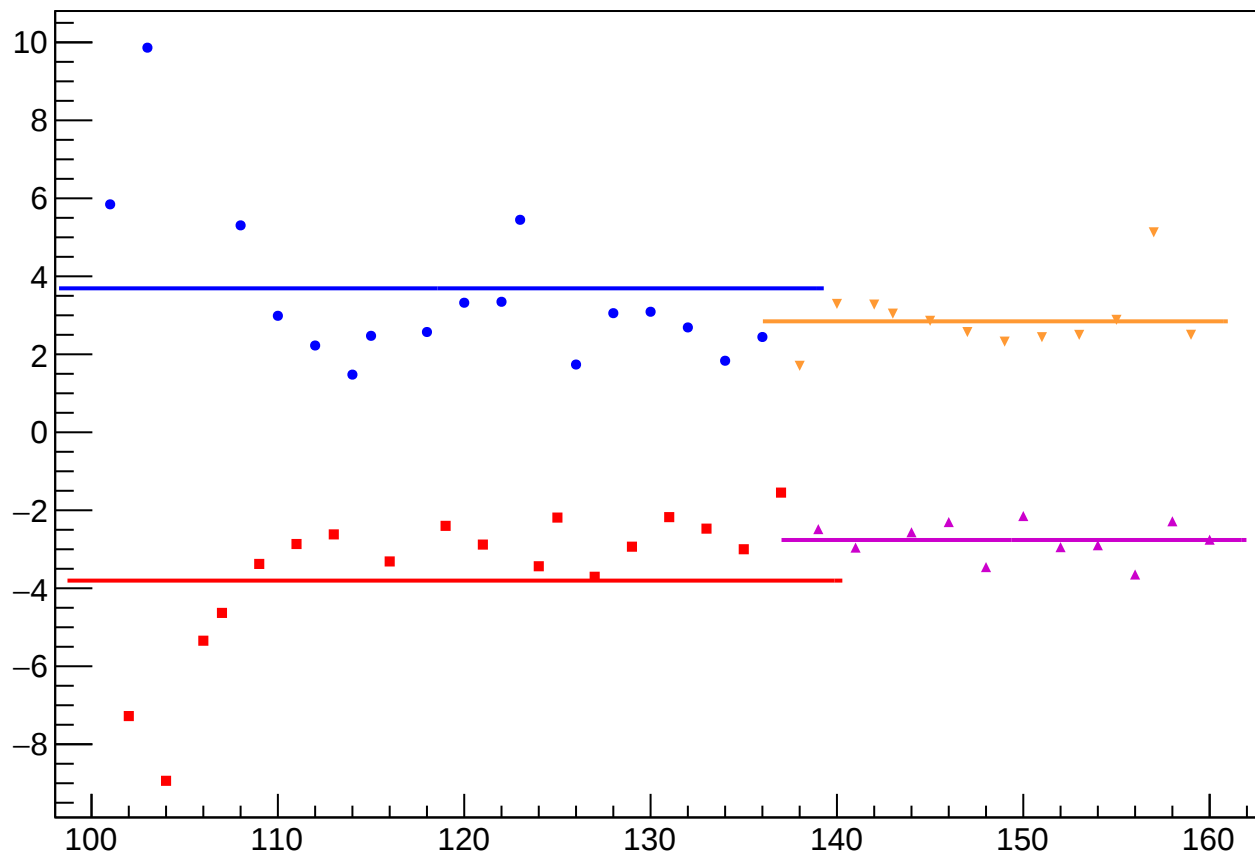
Right: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 73439703870243937

In: 16.825+/-0.000  $\chi^2/\text{NDF}$ : 969185214083124883

Out: -12.965+/-0.000  $\chi^2/\text{NDF}$ : 9088636666541269

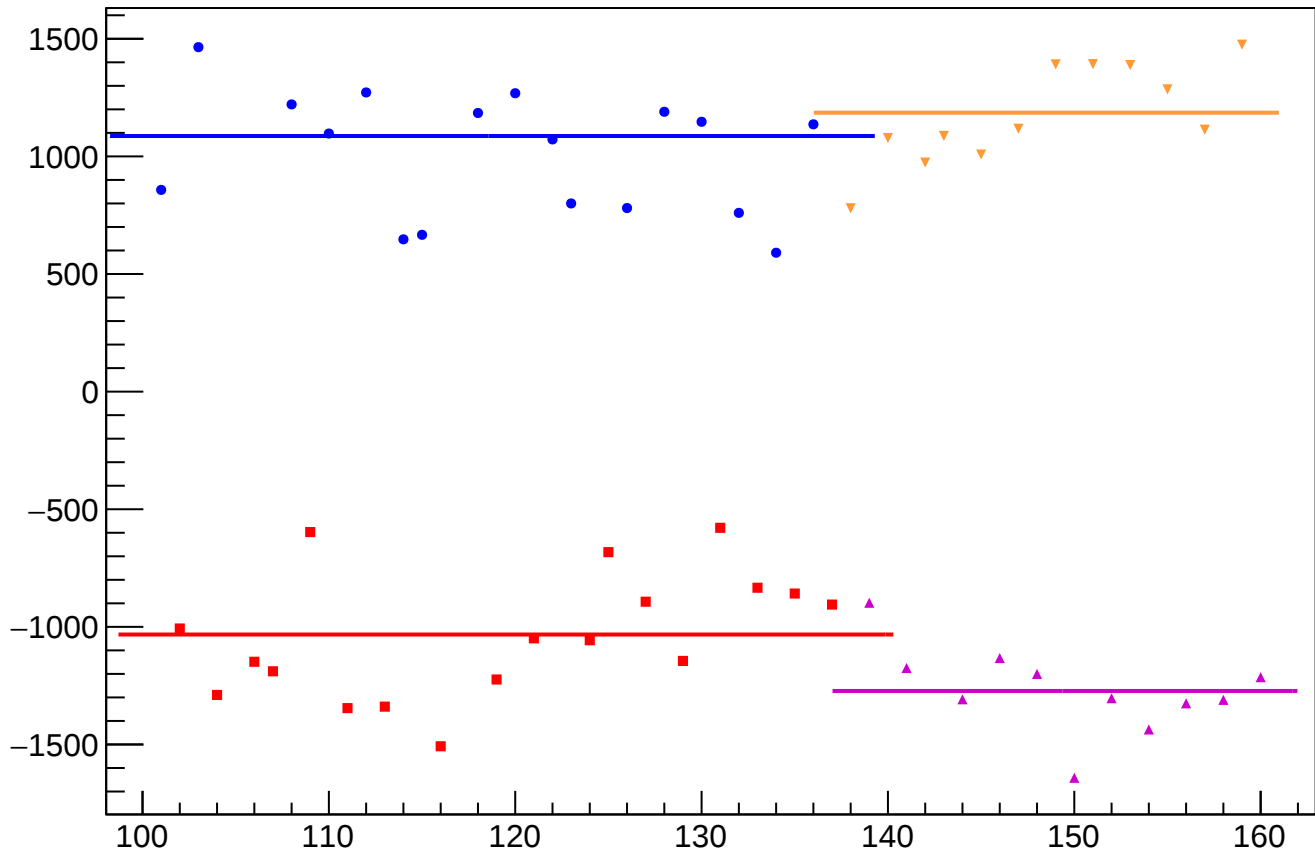
All: 1.944+/-0.000  $\chi^2/\text{NDF}$ : 19501749782083

dit\_11X12X\_coil3\_err\_mean vs Slug, Sign Corrected



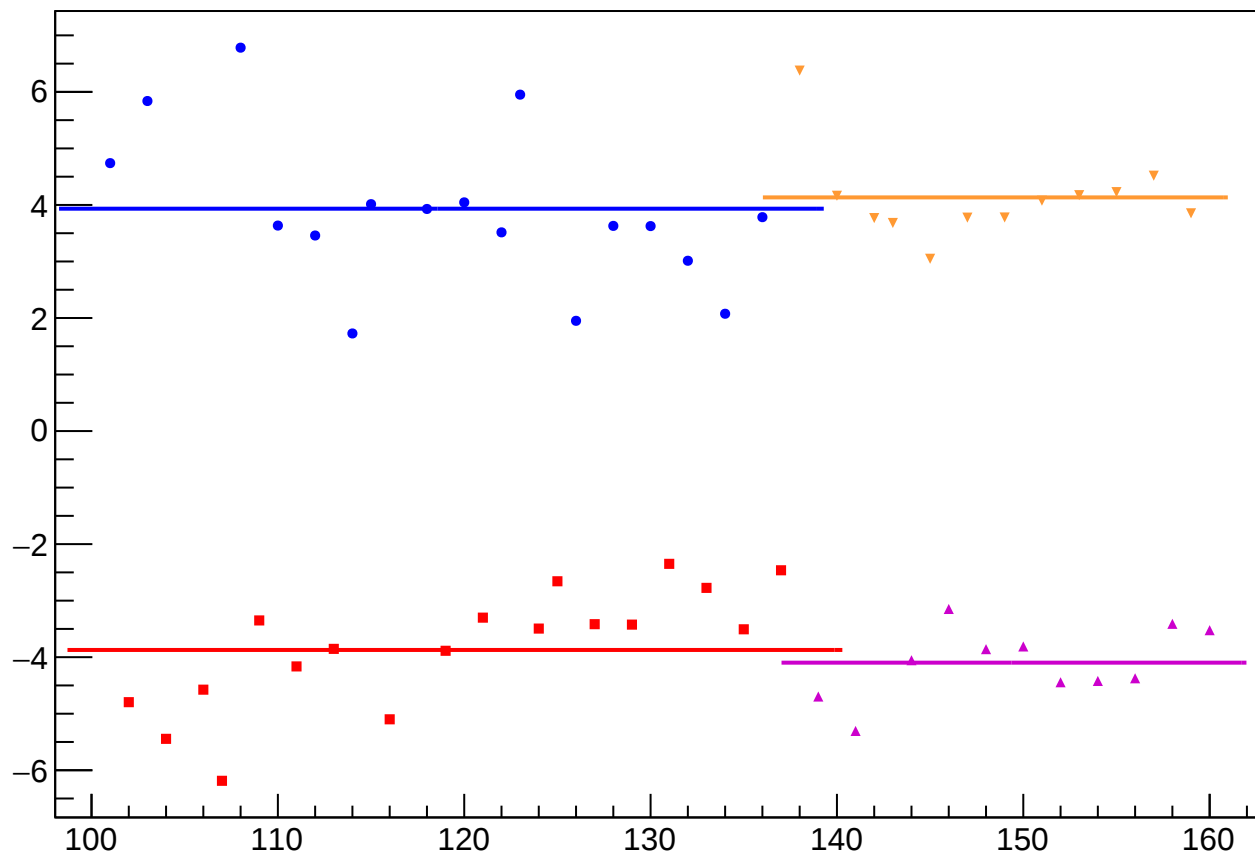
Right In:  $3.692 \pm 0.000$   $\chi^2/\text{NDF}$ : 3355971788555014480502828790972416.0/16  
 Left Out:  $2.846 \pm 0.000$   $\chi^2/\text{NDF}$ : 575629369641168831235561749479424.0/11  
 Right Out:  $-3.803 \pm 0.000$   $\chi^2/\text{NDF}$ : 2825063553426013260614294392799232.0/17  
 Left In:  $-2.762 \pm 0.000$   $\chi^2/\text{NDF}$ : 191371961737300564635223748247552.0/10  
 All:  $-0.045 \pm 0.000$   $\chi^2/\text{NDF}$ : 4121907828057

dit\_11X12X\_coil3\_Ndata\_mean vs Slug, Sign Corrected



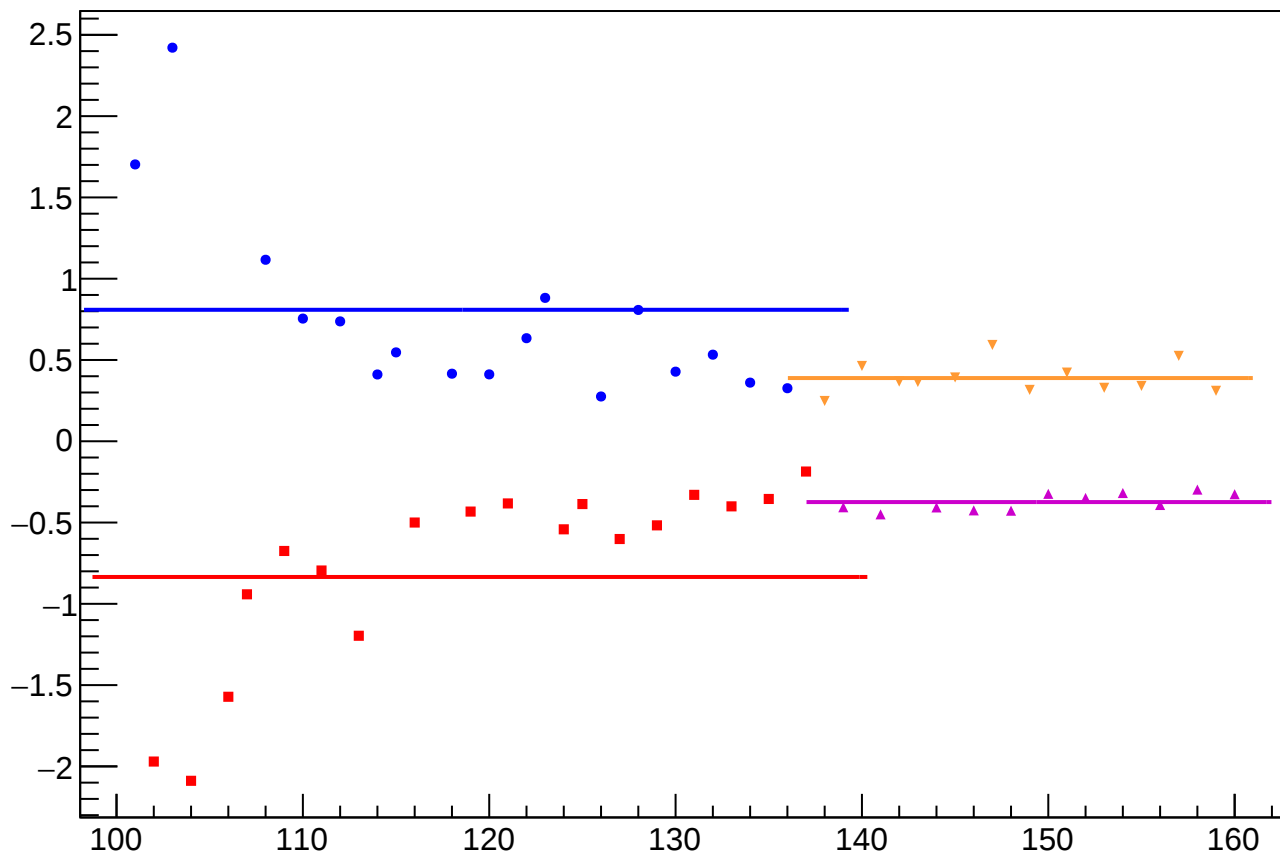
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_4aY\_coil3\_mean vs Slug, Sign Corrected



Right In:  $3.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 937288717449166058748009299050496.0/16  
 Left Out:  $4.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 543238329499438777000735270764544.0/11  
 Right Out:  $-3.872 \pm 0.000$   $\chi^2/\text{NDF}$ : 707048075514761321683781922324480.0/17  
 Left In:  $-4.097 \pm 0.000$   $\chi^2/\text{NDF}$ : 331914558071256071482746481934336.0/10  
 All:  $-0.032 \pm 0.000$   $\chi^2/\text{NDF}$ : 5516958572144

# dit\_4aY\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 0.809+/-0.000

$\chi^2/\text{NDF}$ : 269169890346681229126320544284672.0/16

Left Out: 0.389+/-0.000

$\chi^2/\text{NDF}$ : 8197684990804317089776046964736.0/11

Right Out: -0.835+/-0.000

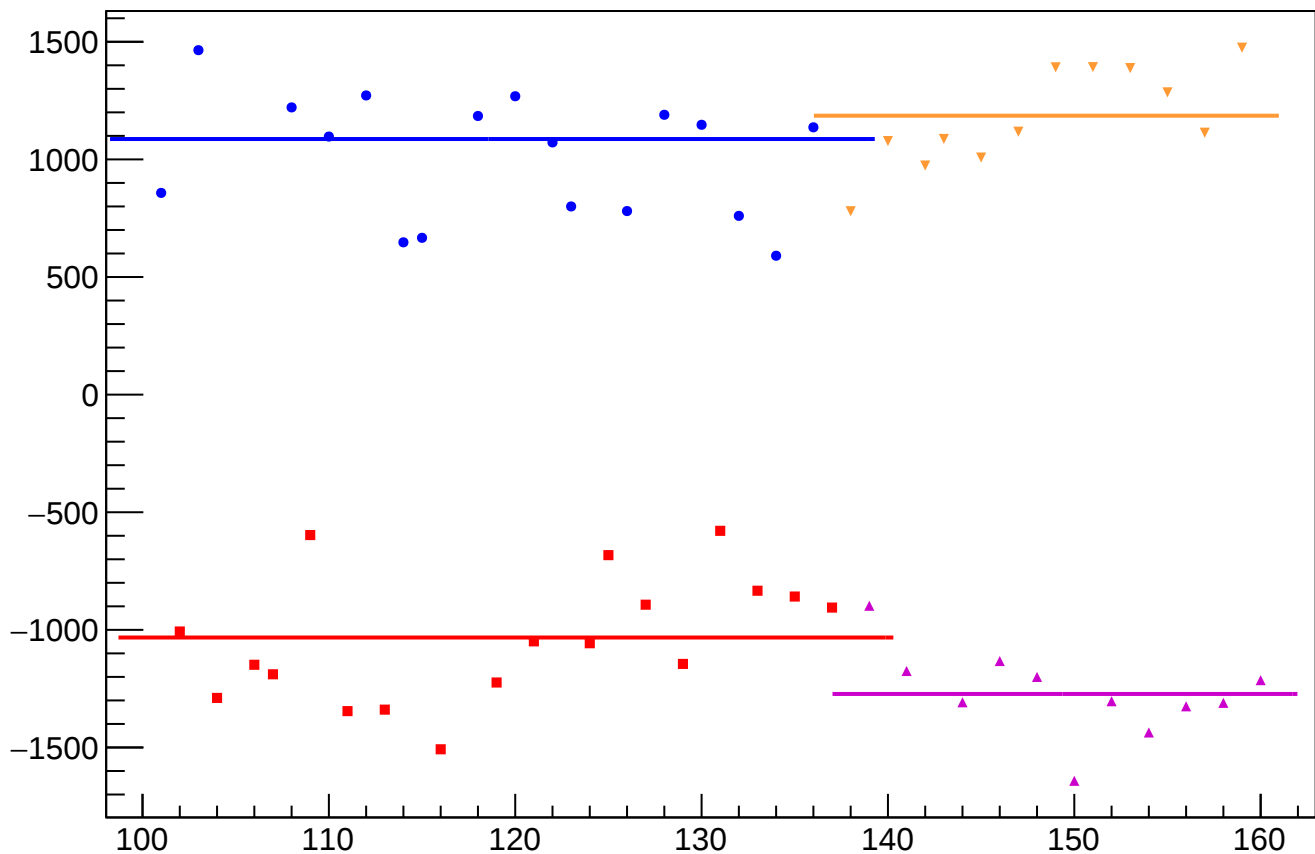
$\chi^2/\text{NDF}$ : 250373306610542576736300880101376.0/17

Left In: -0.374+/-0.000

$\chi^2/\text{NDF}$ : 2379461607366055456140660047872.0/10

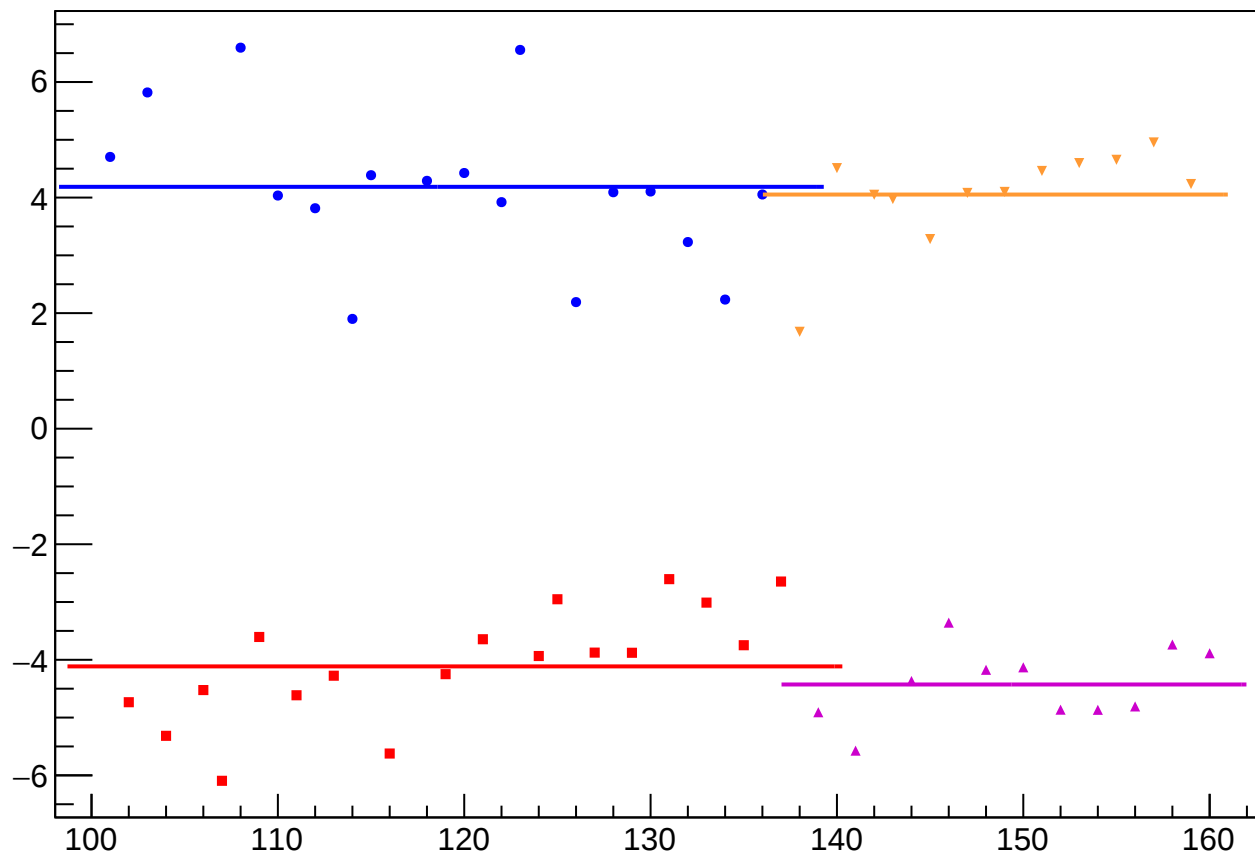
All: -0.010+/-0.000  $\chi^2/\text{NDF}$ : 1749999072867

dit\_4aY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



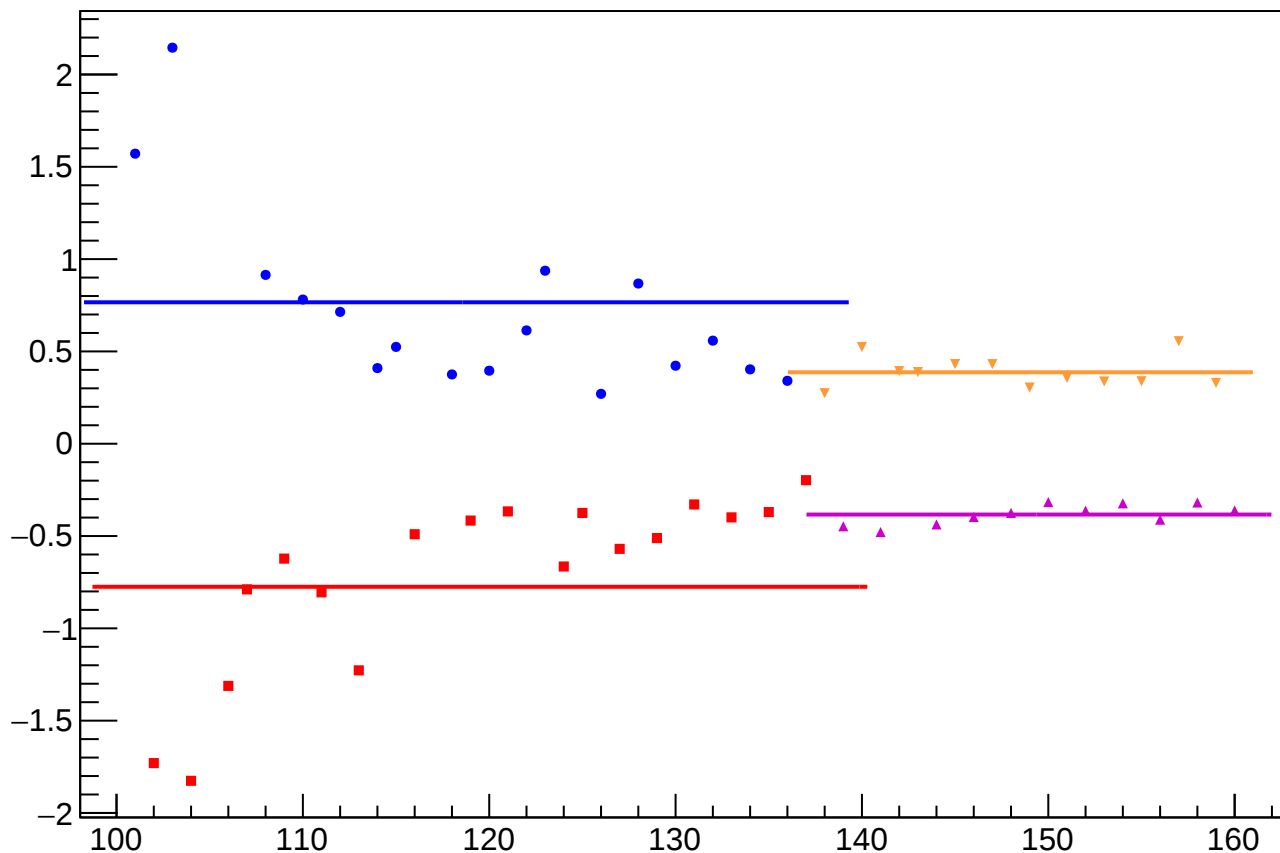
Right In:  $1086.695 \pm 0.000$   $\chi^2/\text{NDF}: 34612834720892896264590202148866752512.0/16$   
 Left Out:  $1185.823 \pm 0.000$   $\chi^2/\text{NDF}: 37557683033316568818198536296895348736.0/11$   
 Right Out:  $-1032.544 \pm 0.000$   $\chi^2/\text{NDF}: 47614887029691398867923382029973979136.0/17$   
 Left In:  $-1272.495 \pm 0.000$   $\chi^2/\text{NDF}: 29878198288838193261445678233542459392.0/10$   
 All:  $-28.738 \pm 0.000$   $\chi^2/\text{NDF}: 451779050699$

dit\_4eY\_coil3\_mean vs Slug, Sign Corrected



Right In:  $4.186 \pm 0.000$   $\chi^2/\text{NDF}: 774445398310846770950220892078080.0/16$   
 Left Out:  $4.052 \pm 0.000$   $\chi^2/\text{NDF}: 634098515145798855261076427112448.0/11$   
 Right Out:  $-4.114 \pm 0.000$   $\chi^2/\text{NDF}: 573990867601521273238766982529024.0/17$   
 Left In:  $-4.427 \pm 0.000$   $\chi^2/\text{NDF}: 347229155799314771034943134892032.0/10$   
 All:  $-0.149 \pm 0.000$   $\chi^2/\text{NDF}: 5973666068557$

dit\_4eY\_coil3\_err\_mean vs Slug, Sign Corrected



Left: -0.003 +/- 0.000  $\chi^2/\text{NDF}$ : 28234003869756828

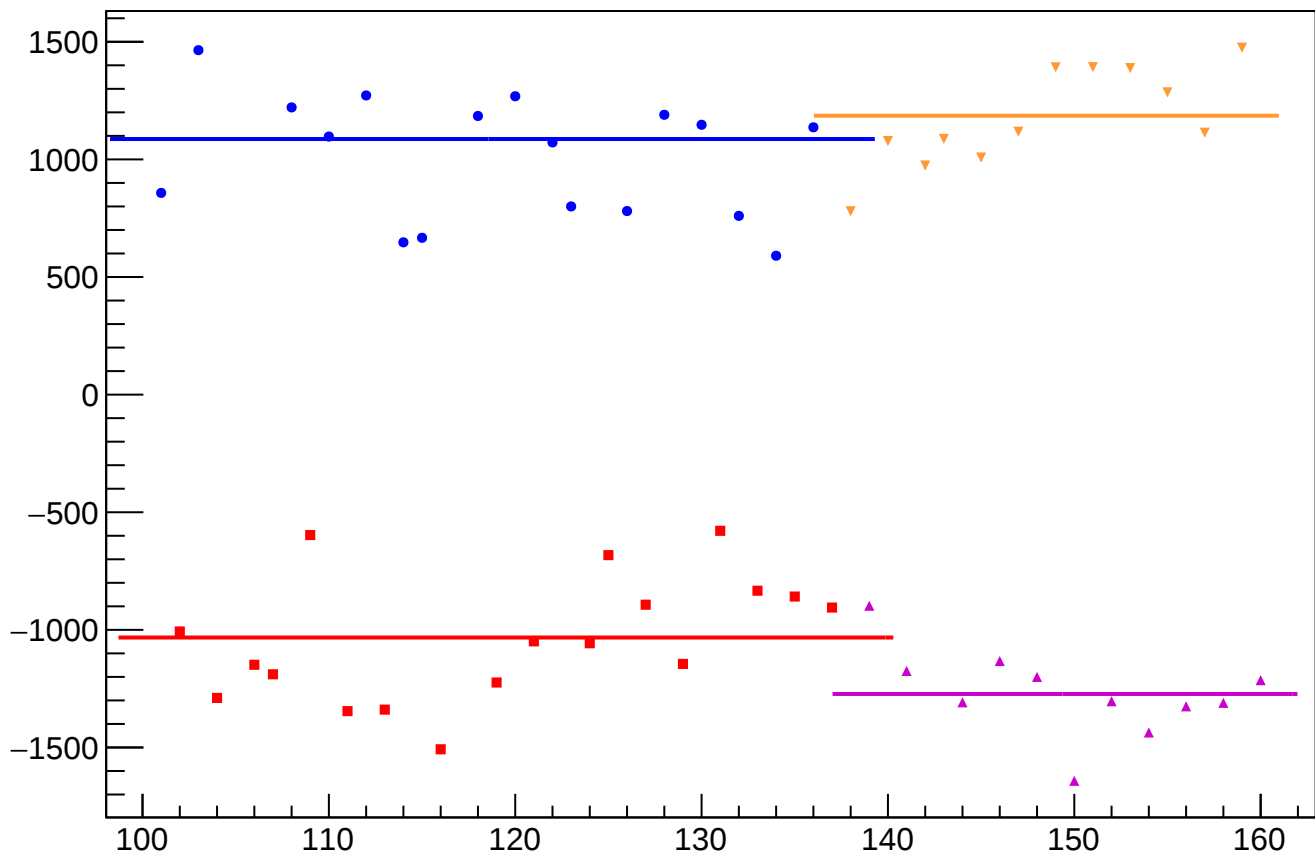
Right: -0.016 +/- 0.000  $\chi^2/\text{NDF}$ : 1223294668378502

In: 0.107 +/- 0.000  $\chi^2/\text{NDF}$ : 7334405883995383067

Out: -0.124 +/- 0.000  $\chi^2/\text{NDF}$ : 72885417762251347

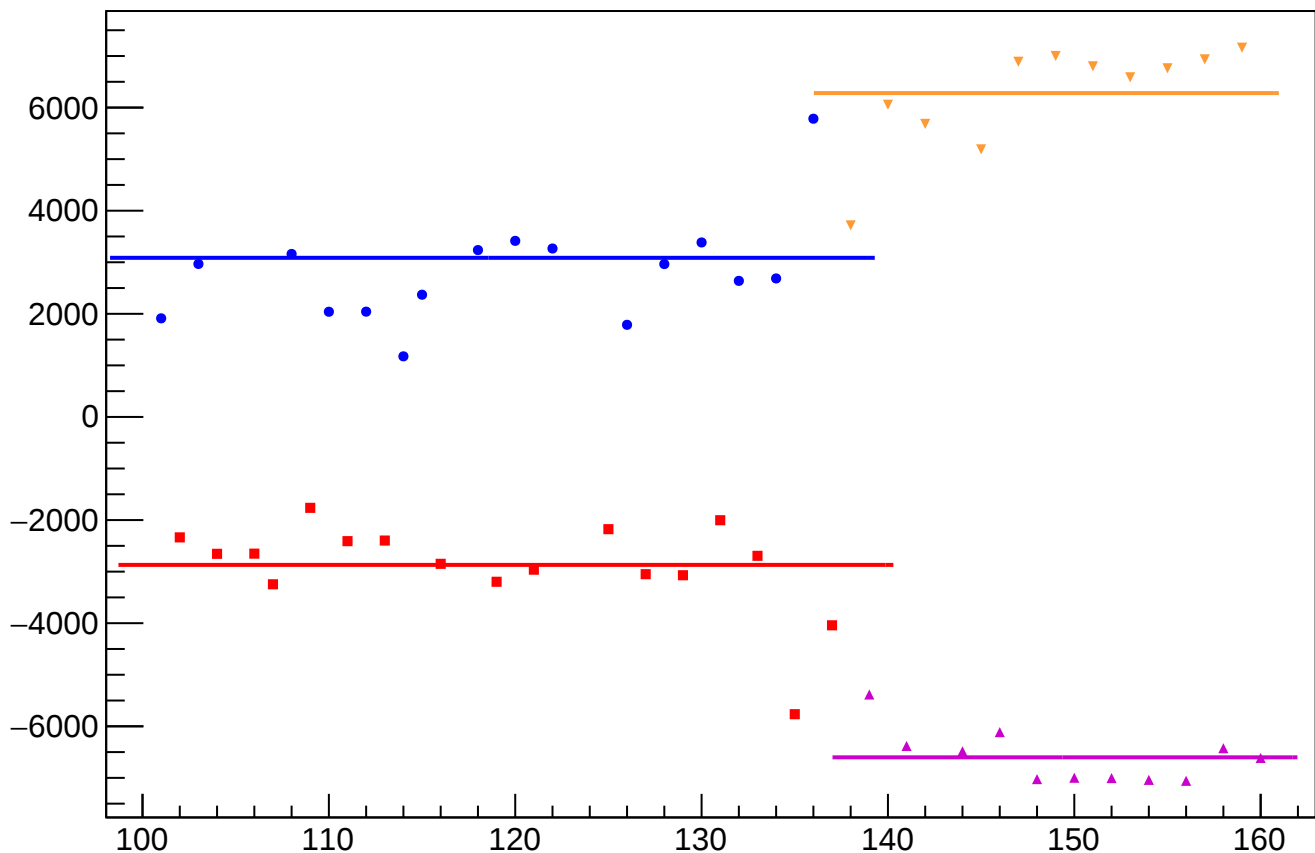
All: -0.009 +/- 0.000  $\chi^2/\text{NDF}$ : 1505760891115

dit\_4eY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



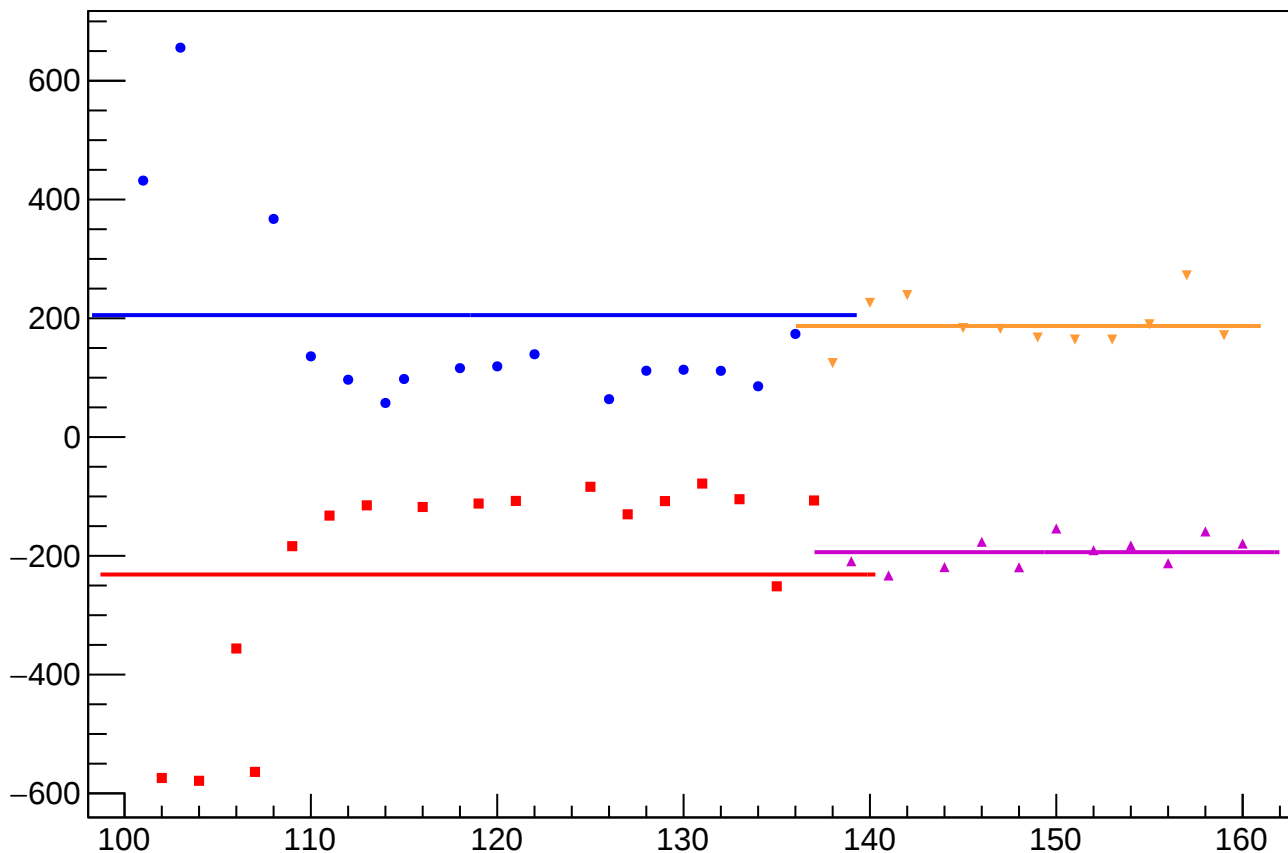
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

dit\_usl\_coil3\_mean vs Slug, Sign Corrected



Left:  $-490.489 \pm 0.000$   $\chi^2/NDF: 745174427172642$   
 Right In:  $3086.294 \pm 0.000$   $\chi^2/NDF: 957872647656521012418983150086021709824.0/15$   
 Left Out:  $6281.054 \pm 0.000$   $\chi^2/NDF: 840424812990698239150116446510170243072.0/10$   
 Right Out:  $-2869.332 \pm 0.000$   $\chi^2/NDF: 591237562305543847323062569482235936768.0/16$   
 Left In:  $-6601.570 \pm 0.000$   $\chi^2/NDF: 224954235143433170053737939603445252096.0/10$   
 All:  $-237.674 \pm 0.000$   $\chi^2/NDF: 88658508378$

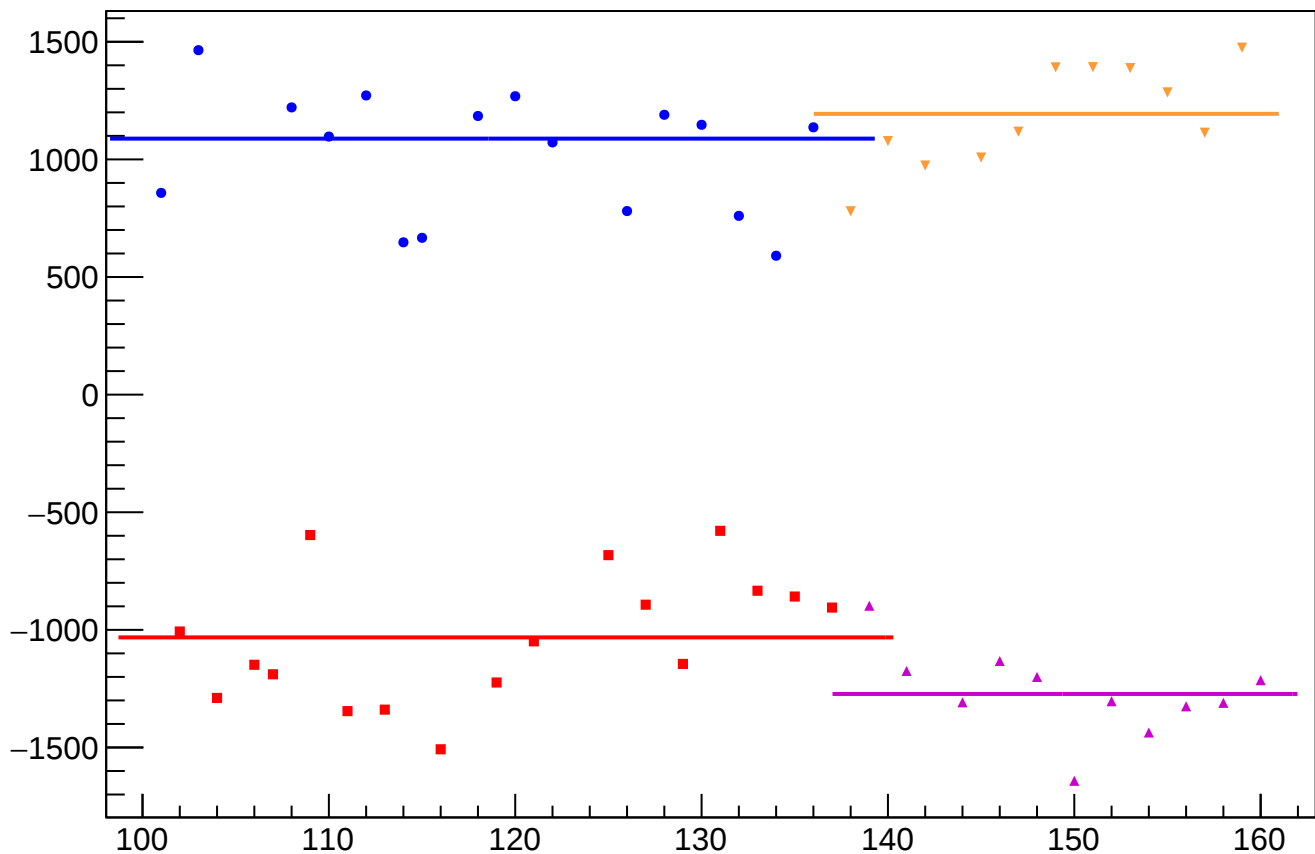
# dit\_usl\_coil3\_err\_mean vs Slug, Sign Corrected



Left: -13.162 +/- 0.000  $\chi^2/\text{NDF}$ : 6602979592425474  
 Right: -14.770 +/- 0.000  $\chi^2/\text{NDF}$ : 110839210771107  
 In: -24.127 +/- 0.000  $\chi^2/\text{NDF}$ : 84295315257804686  
 Out: -3.078 +/- 0.000  $\chi^2/\text{NDF}$ : 92225228487056361  
 All: -13.868 +/- 0.000  $\chi^2/\text{NDF}$ : 176871022937

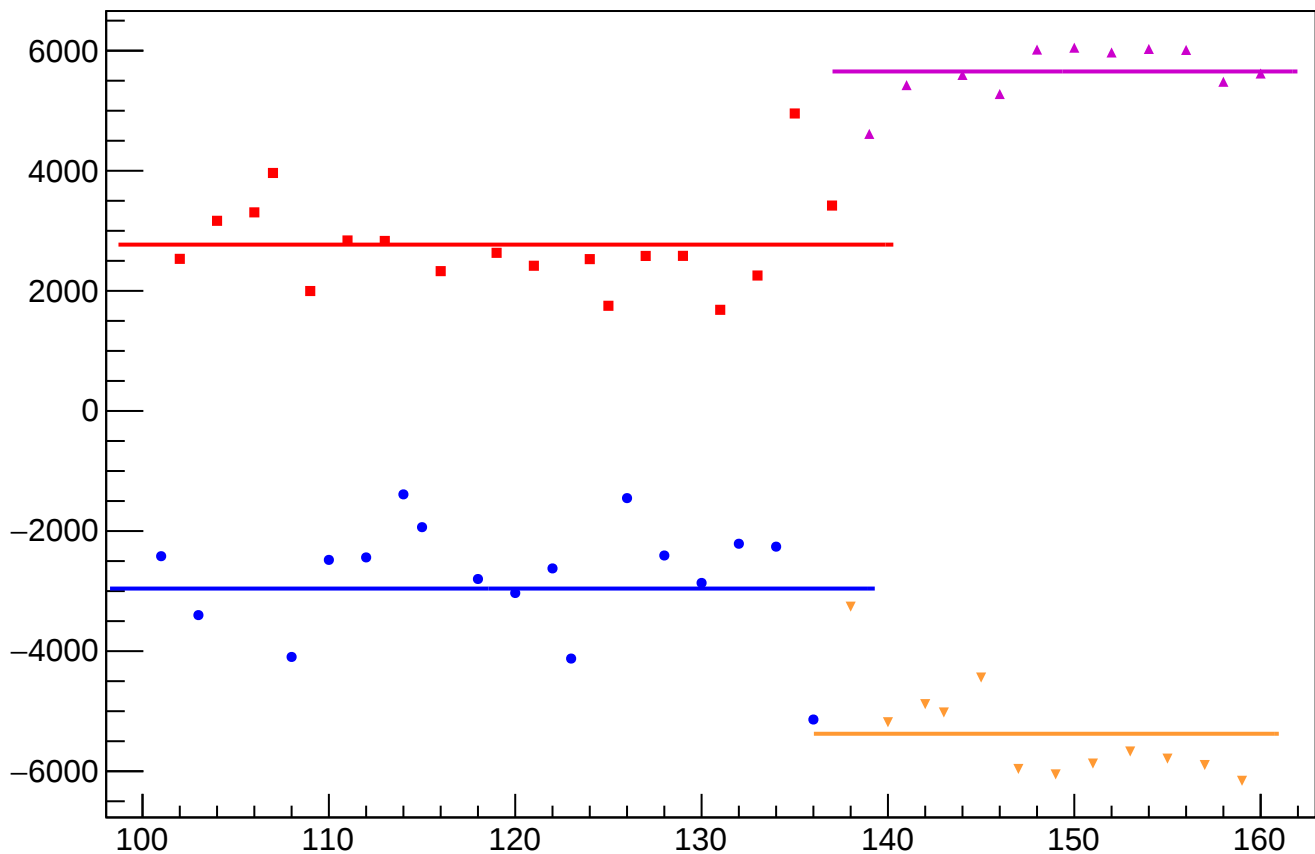
Right In: 205.364 +/- 0.000  $\chi^2/\text{NDF}$ : 20493668782682953984090808657754718208.0/15  
 Left Out: 187.052 +/- 0.000  $\chi^2/\text{NDF}$ : 1231111224909573231836373521014980608.0/10  
 Right Out: -231.450 +/- 0.000  $\chi^2/\text{NDF}$ : 23996601891457376807935240829130506240.0/16  
 Left In: -193.848 +/- 0.000  $\chi^2/\text{NDF}$ : 586629985939156798428558842319077376.0/10

dit\_usl\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1088.357 \pm 0.000$   $\chi^2/\text{NDF}: 34282153777351983771685586546357960704.0/15$   
 Left Out:  $1193.682 \pm 0.000$   $\chi^2/\text{NDF}: 36852151008799488295542377563587346432.0/10$   
 Right Out:  $-1032.058 \pm 0.000$   $\chi^2/\text{NDF}: 47606445983736508238206731798200713216.0/16$   
 Left In:  $-1272.495 \pm 0.000$   $\chi^2/\text{NDF}: 29878198288838193261445678233542459392.0/10$   
 All:  $-48.852 \pm 0.000$   $\chi^2/\text{NDF}: 441554871175$

# dit\_usr\_coil3\_mean vs Slug, Sign Corrected



Right In: -2957.567+/-0.000

Left Out: -5375.695+/-0.000

Right Out: 2770.253+/-0.000

Left In: 5653.693+/-0.000

$\chi^2/\text{NDF}$ : 713909426456610215881026852236843548672.0/16

$\chi^2/\text{NDF}$ : 614970411401357250704026120645020483584.0/11

$\chi^2/\text{NDF}$ : 445434357481765841936850386629712412672.0/17

$\chi^2/\text{NDF}$ : 163388727247640022745164219494657163264.0/10

Left: 210.852+/-0.000  $\chi^2/\text{NDF}$ : 5678747648450613

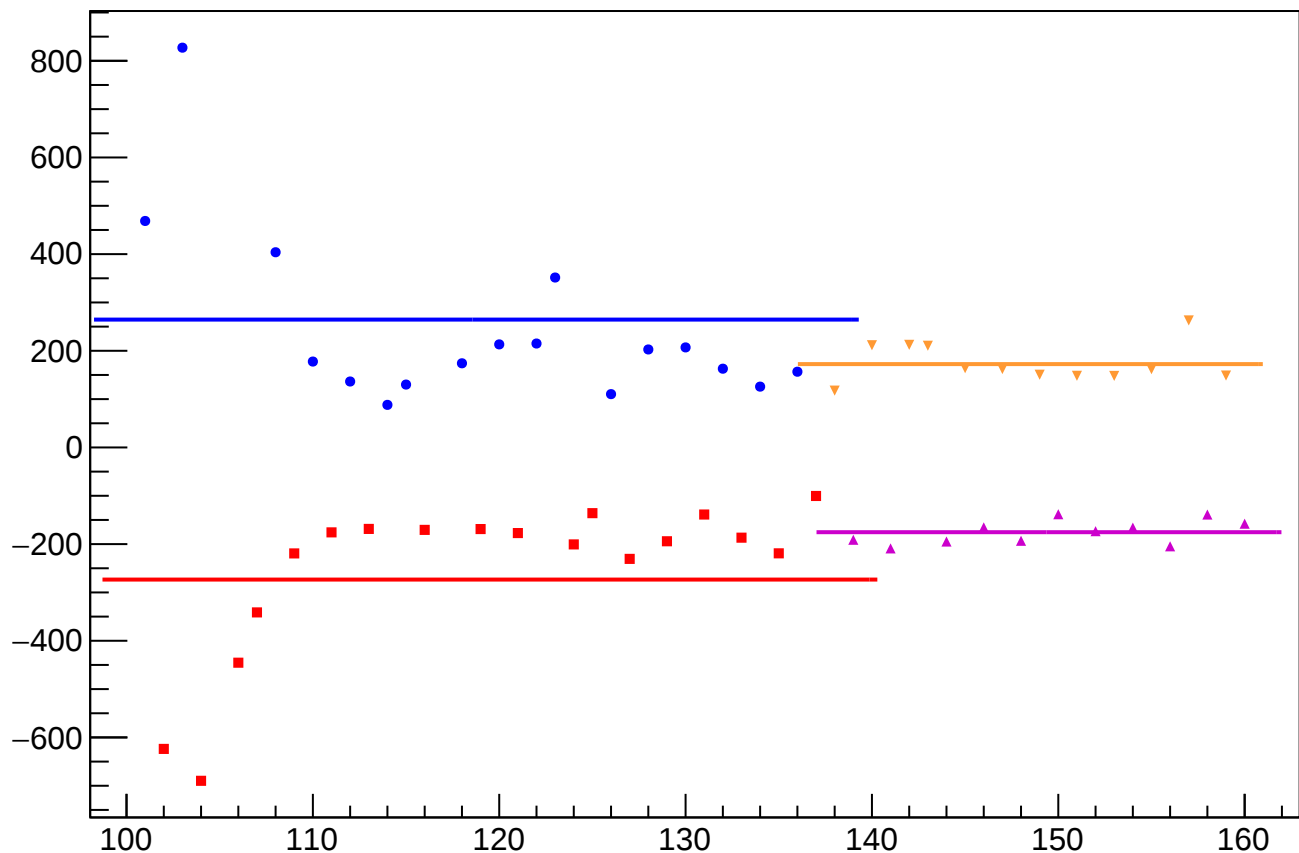
Right: -50.973+/-0.000  $\chi^2/\text{NDF}$ : 127133701983019

In: 1980.543+/-0.000  $\chi^2/\text{NDF}$ : 3038851116540527

Out: -1789.270+/-0.000  $\chi^2/\text{NDF}$ : 27616678894170

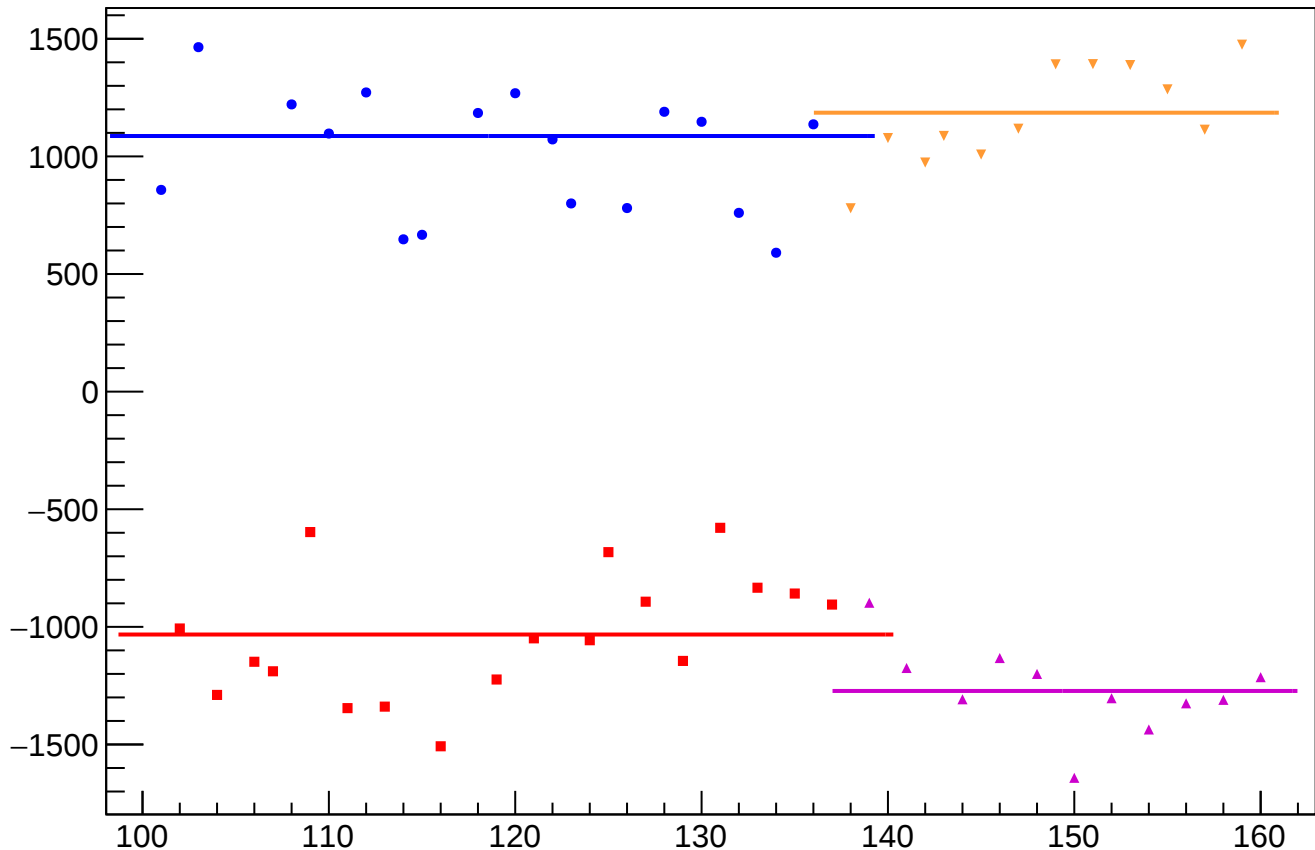
All: 97.376+/-0.000  $\chi^2/\text{NDF}$ : 6955557422403

dit\_usr\_coil3\_err\_mean vs Slug, Sign Corrected



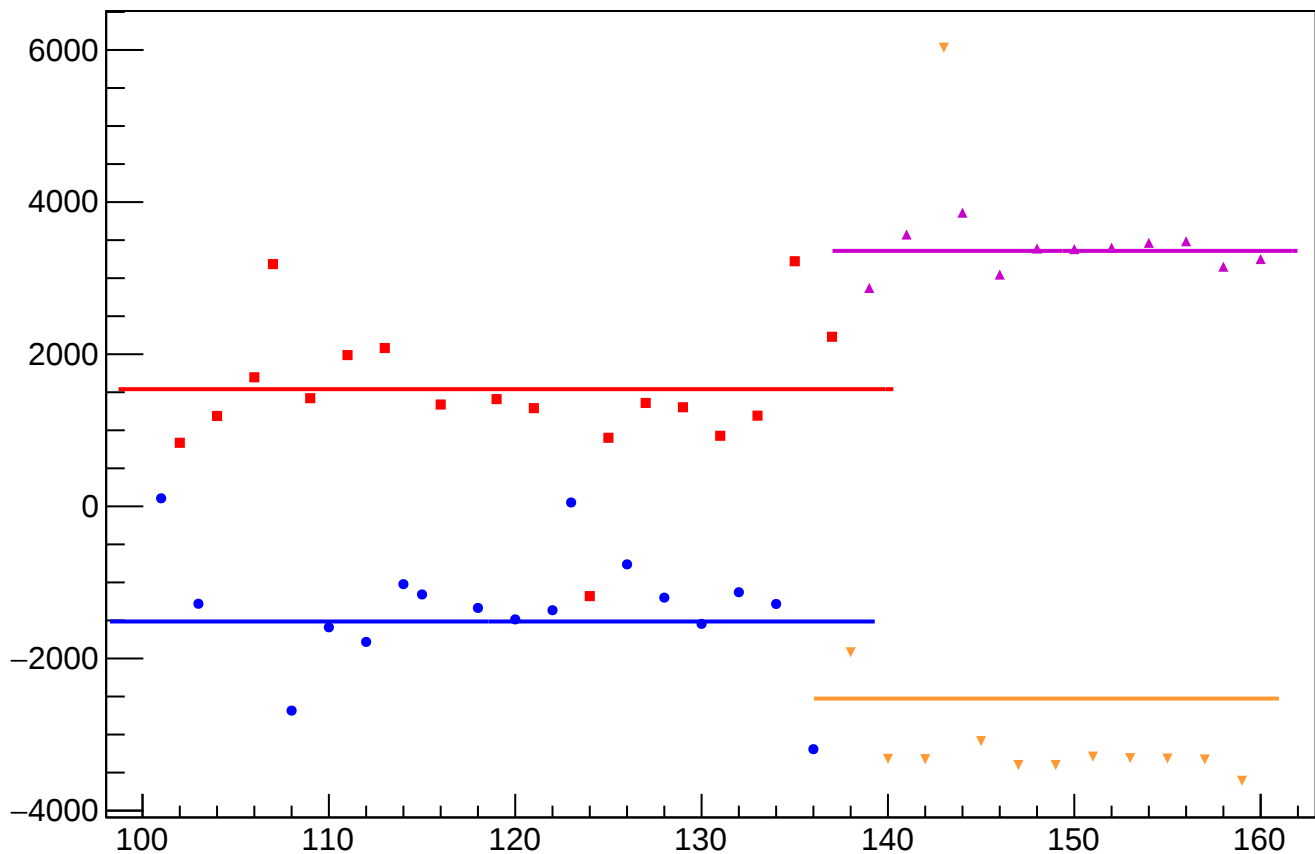
Right In: 264.557+/-0.000  $\chi^2/\text{NDF}$ : 27392235444982313348552279916984401920.0/16  
 Left Out: 172.461+/-0.000  $\chi^2/\text{NDF}$ : 1337859782705403198008239582328389632.0/11  
 Right Out: -273.375+/-0.000  $\chi^2/\text{NDF}$ : 22103440288407609769259099140296540160.0/17  
 Left In: -175.349+/-0.000  $\chi^2/\text{NDF}$ : 519457890651720785160381502035329024.0/10  
 All: -5.750+/-0.000  $\chi^2/\text{NDF}$ : 2089768409567

dit\_usr\_coil3\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1086.695+/-0.000   | $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16 | Left: -59.351+/-0.000              | $\chi^2/\text{NDF}$ : 2849915835351934 |
| Left Out: 1185.823+/-0.000   | $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11 | Right: 11.282+/-0.000              | $\chi^2/\text{NDF}$ : 1663891694726158 |
| Right Out: -1032.544+/-0.000 | $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17 | In: -266.178+/-0.000               | $\chi^2/\text{NDF}$ : 2279519380852013 |
| Left In: -1272.495+/-0.000   | $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10 | Out: 209.140+/-0.000               | $\chi^2/\text{NDF}$ : 2054648458206867 |
|                              | All: -28.738+/-0.000                                              | $\chi^2/\text{NDF}$ : 451779050699 |                                        |

# dit\_atl1\_coil3\_mean vs Slug, Sign Corrected



Right In: -1513.653+/-0.000

Left Out: -2527.006+/-0.000

Right Out: 1540.621+/-0.000

Left In: 3358.797+/-0.000

$\chi^2/\text{NDF}$ : 514234912482757513557339366977389461504.0/16

$\chi^2/\text{NDF}$ : 5451232990455416155360910698566211600384.0/11

$\chi^2/\text{NDF}$ : 446199417852057016559160819528574697472.0/17

$\chi^2/\text{NDF}$ : 60700995686323483961460541092630888448.0/10

Left: 454.239+/-0.000  $\chi^2/\text{NDF}$ : 2146217616354959

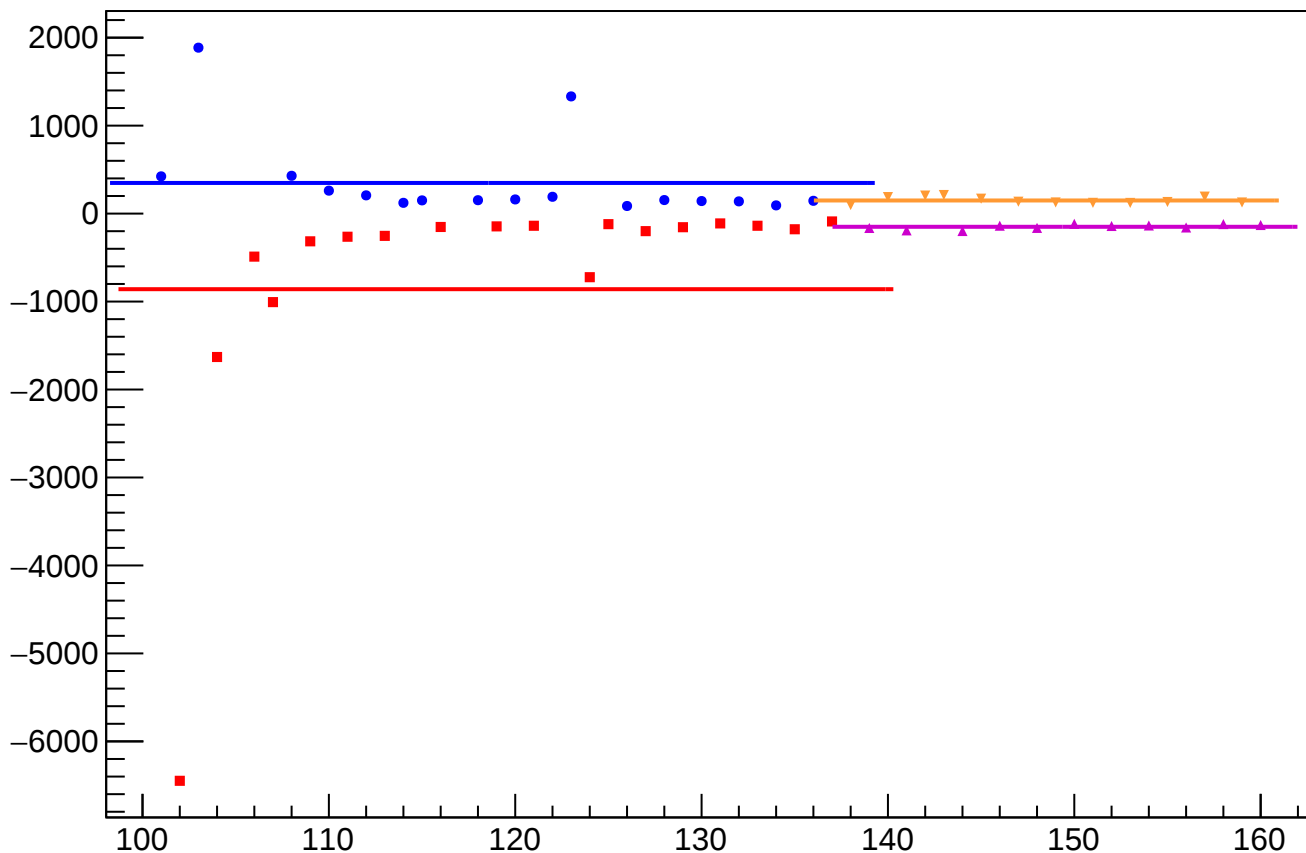
Right: 36.245+/-0.000  $\chi^2/\text{NDF}$ : 4245699622257131

In: 1280.444+/-0.000  $\chi^2/\text{NDF}$ : 100231179905351

Out: -736.148+/-0.000  $\chi^2/\text{NDF}$ : 125190807044602

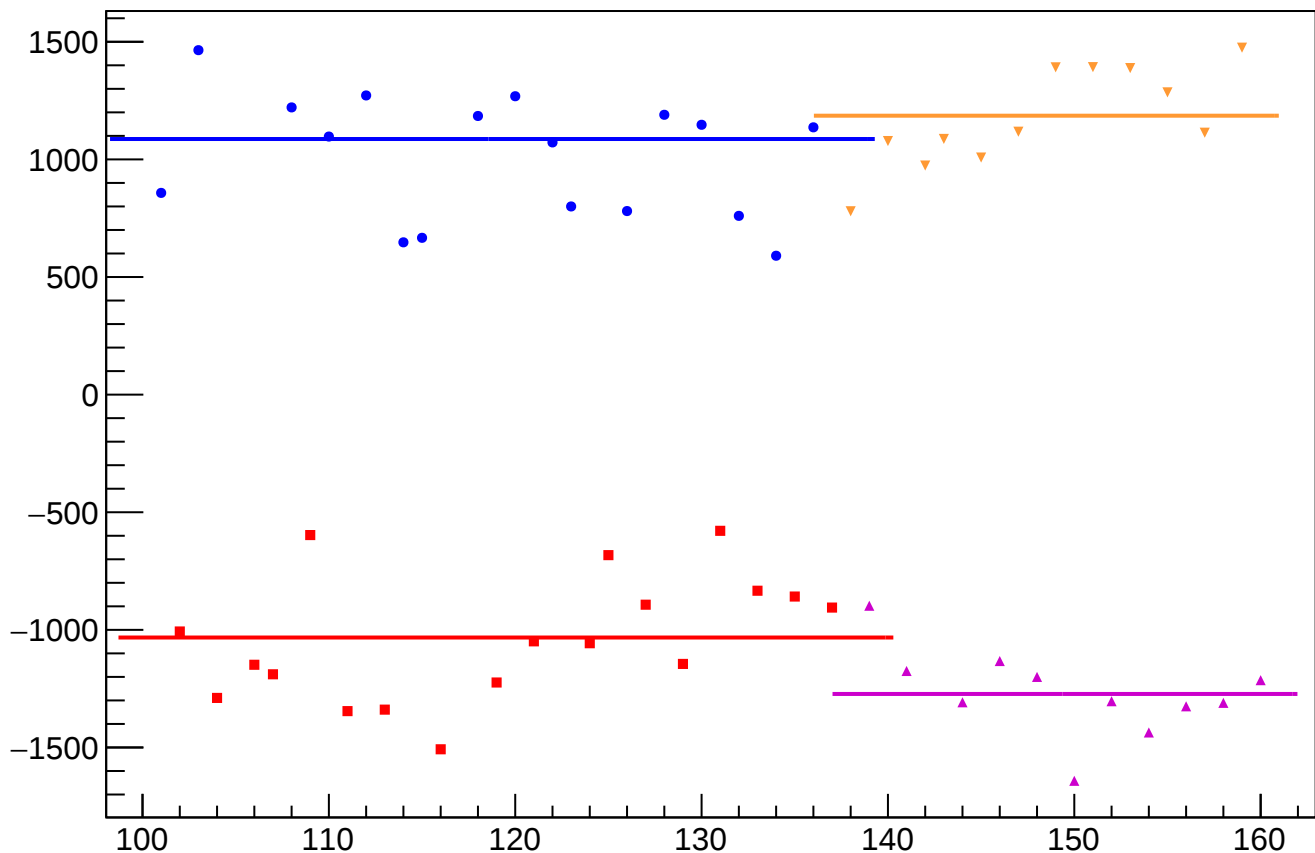
All: 273.078+/-0.000  $\chi^2/\text{NDF}$ : 258473599670

# dit\_atl1\_coil3\_err\_mean vs Slug, Sign Corrected



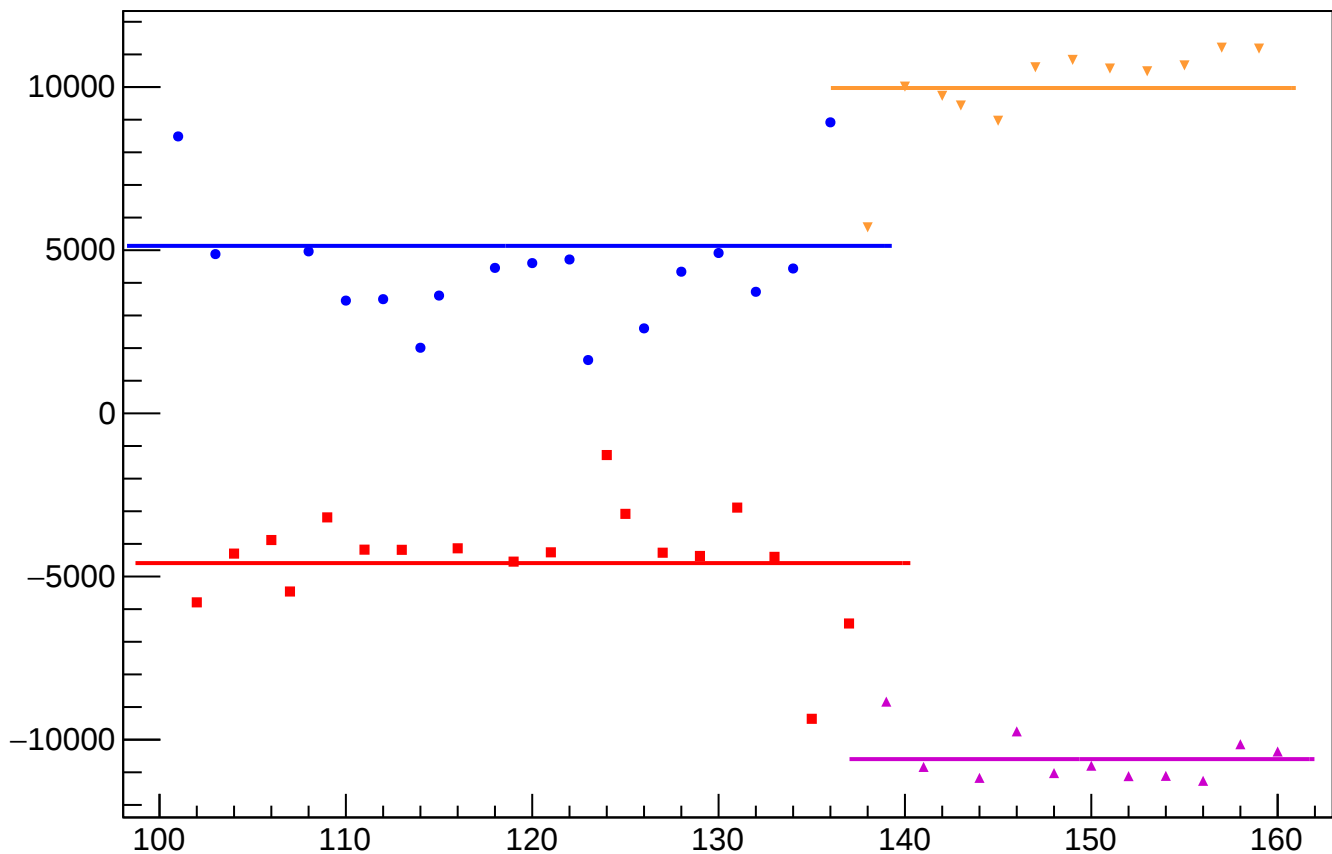
Right In: 348.444+/-0.000  $\chi^2/\text{NDF}$ : 164421878122610355371654497383202422784.0/16  
 Left Out: 149.175+/-0.000  $\chi^2/\text{NDF}$ : 1154008557616927305320355624438988800.0/11  
 Right Out: -859.360+/-0.000  $\chi^2/\text{NDF}$ : 2089894584846900651264019930845330538496.0/17  
 Left In: -149.996+/-0.000  $\chi^2/\text{NDF}$ : 634211210391111193289402478351089664.0/10  
 All: -115.955+/-0.000  $\chi^2/\text{NDF}$ : 28659014260

dit\_atl1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



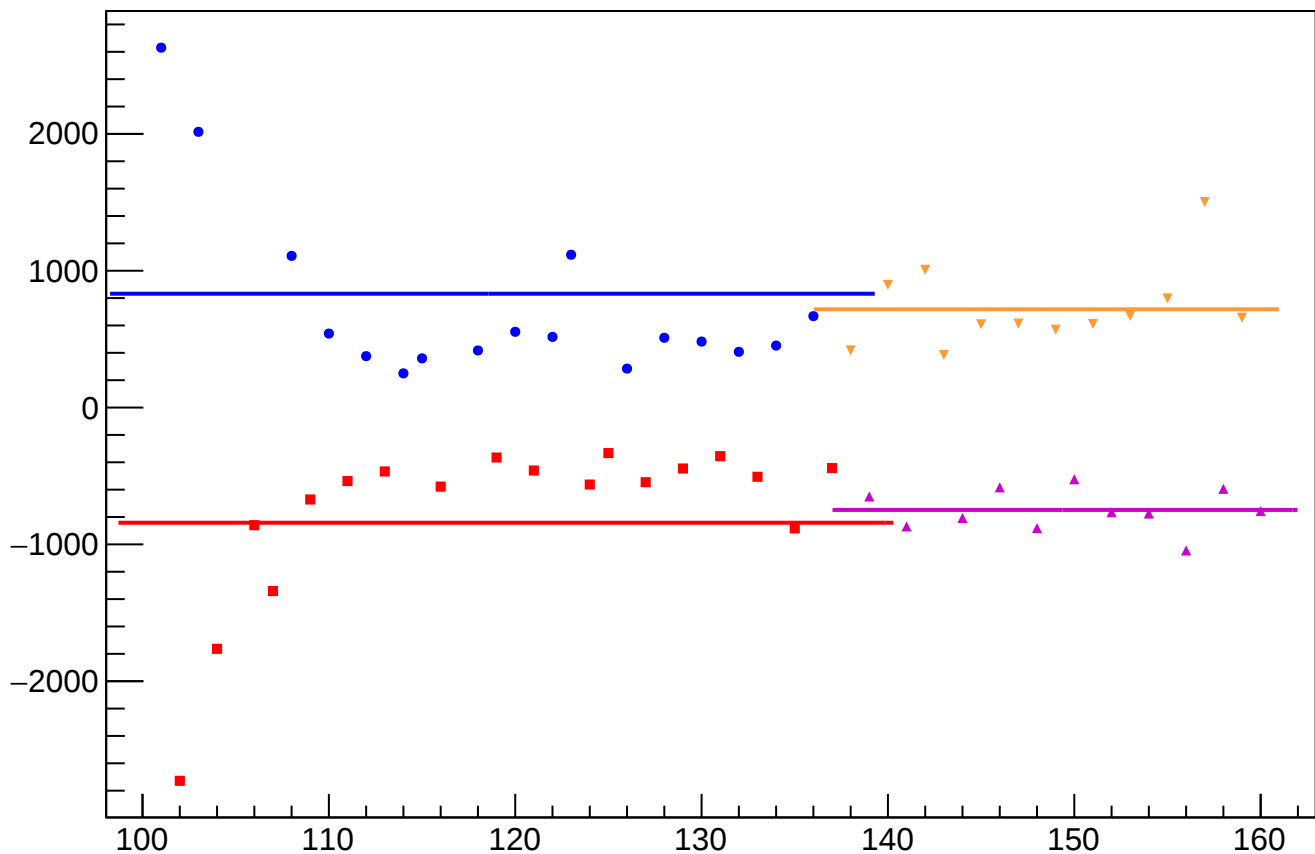
|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1086.695+/-0.000   | $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16 | Left: -59.351+/-0.000              | $\chi^2/\text{NDF}$ : 2849915835351934 |
| Left Out: 1185.823+/-0.000   | $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11 | Right: 11.282+/-0.000              | $\chi^2/\text{NDF}$ : 1663891694726158 |
| Right Out: -1032.544+/-0.000 | $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17 | In: -266.178+/-0.000               | $\chi^2/\text{NDF}$ : 2279519380852013 |
| Left In: -1272.495+/-0.000   | $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10 | Out: 209.140+/-0.000               | $\chi^2/\text{NDF}$ : 2054648458206867 |
|                              | All: -28.738+/-0.000                                              | $\chi^2/\text{NDF}$ : 451779050699 |                                        |

# dit\_atl2\_coil3\_mean vs Slug, Sign Corrected



Right In: 5133.097 $\pm$ 0.000  $\chi^2$ /NDF: 2783606731789543492542627200033364115456.0/16  
 Left Out: 9970.965 $\pm$ 0.000  $\chi^2$ /NDF: 1934561351581385388949199210125109231616.0/11  
 Right Out: -4588.565 $\pm$ 0.000  $\chi^2$ /NDF: 1762679658137517030098233744958039261184.0/17  
 Left In: -10595.738 $\pm$ 0.000  $\chi^2$ /NDF: 468576856430233997179123685345978220544.0/10  
 All: -166.309 $\pm$ 0.000  $\chi^2$ /NDF: 23532028445

dit\_atl2\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 831.957+/-0.000

$\chi^2/\text{NDF}$ : 349451729062960856481628082238677581824.0/16

Left Out: 718.149+/-0.000

$\chi^2/\text{NDF}$ : 71937620206312488089989876430797799424.0/11

Right Out: -841.697+/-0.000

$\chi^2/\text{NDF}$ : 327194571788790762884924618221350289408.0/17

Left In: -748.248+/-0.000

$\chi^2/\text{NDF}$ : 19684275040316832189212720213180547072.0/10

Left: -24.603+/-0.000  $\chi^2/\text{NDF}$ : 1081677196485158

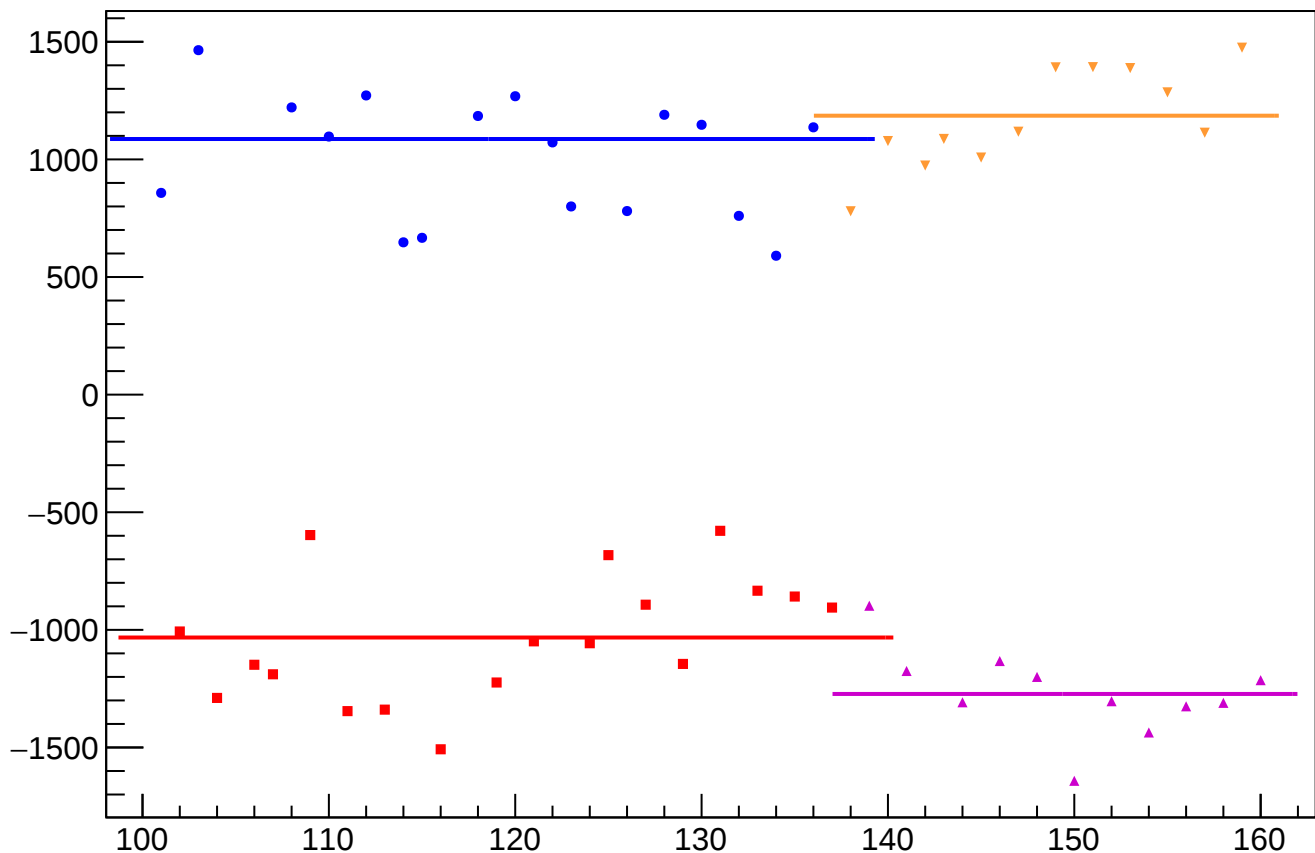
Right: -17.342+/-0.000  $\chi^2/\text{NDF}$ : 166312131031123

In: -74.209+/-0.000  $\chi^2/\text{NDF}$ : 13628941375185424

Out: 31.394+/-0.000  $\chi^2/\text{NDF}$ : 13728826977796212

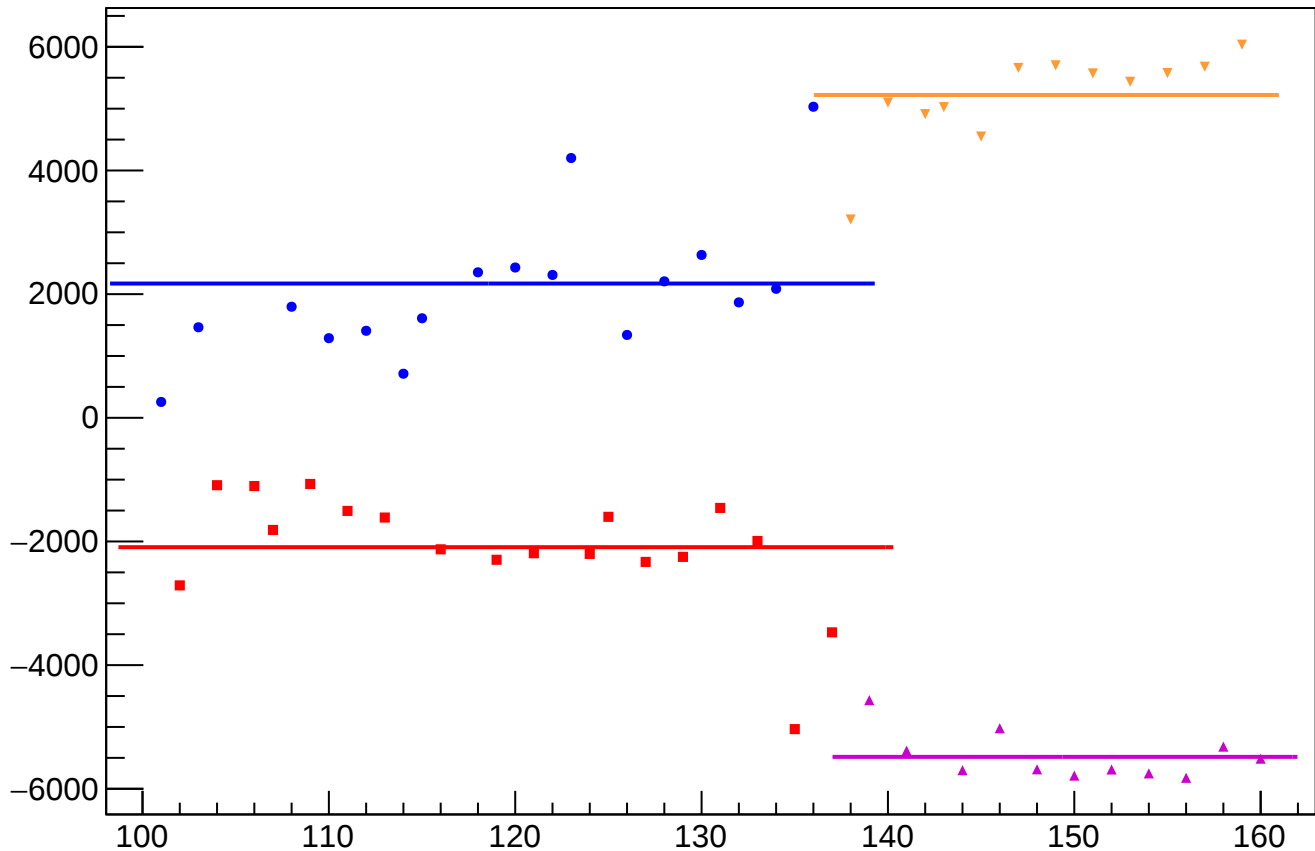
All: -21.456+/-0.000  $\chi^2/\text{NDF}$ : 274484058826

dit\_atl2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



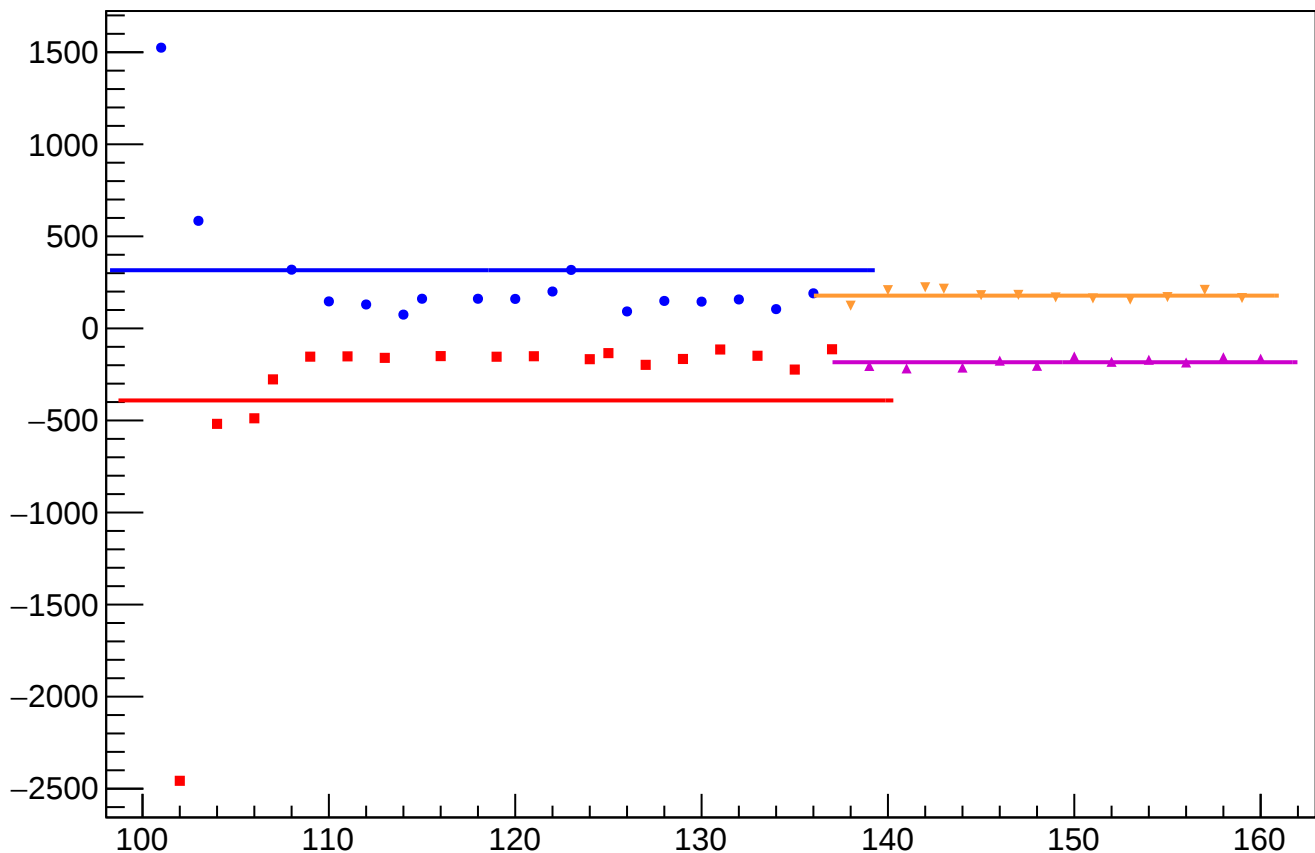
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 0.000  $\chi^2$ /NDF: 29878198288838193261445678233542459392.0/10  
 All: -28.738 $\pm$ 0.000  $\chi^2$ /NDF: 451779050699

# dit\_atr1\_coil3\_mean vs Slug, Sign Corrected



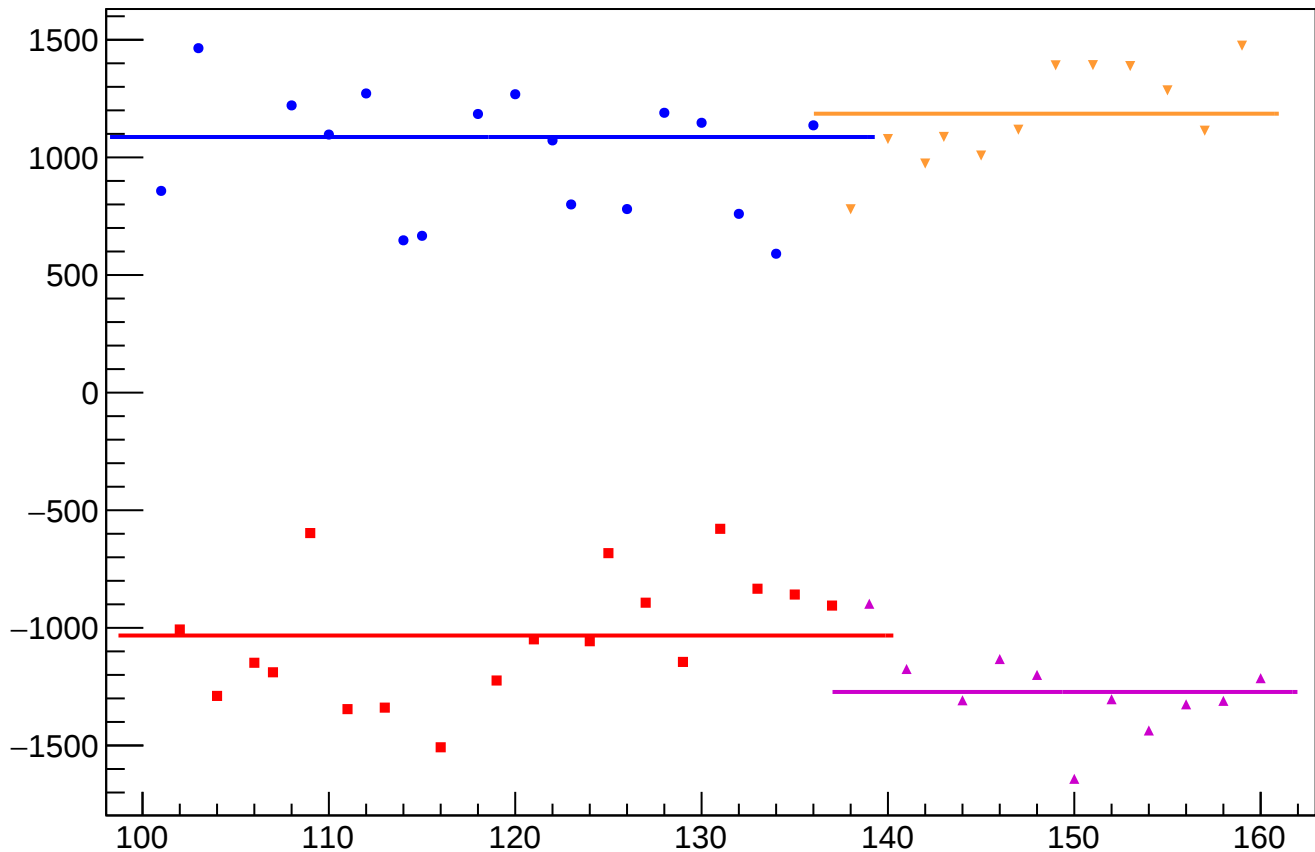
Right In: 2171.584+/-0.000  $\chi^2/\text{NDF}$ : 1121481436711992505747608002078061887488.0/16  
 Left Out: 5221.037+/-0.000  $\chi^2/\text{NDF}$ : 4857654311050292854338300000844618072064.0/11  
 Right Out: -2092.361+/-0.000  $\chi^2/\text{NDF}$ : 667441885377832140265043131761621467136.0/17  
 Left In: -5483.850+/-0.000  $\chi^2/\text{NDF}$ : 124207618021639643047117923230651777024.0/10  
 All: -110.571+/-0.000  $\chi^2/\text{NDF}$ : 61598535093

# dit\_atr1\_coil3\_err\_mean vs Slug, Sign Corrected



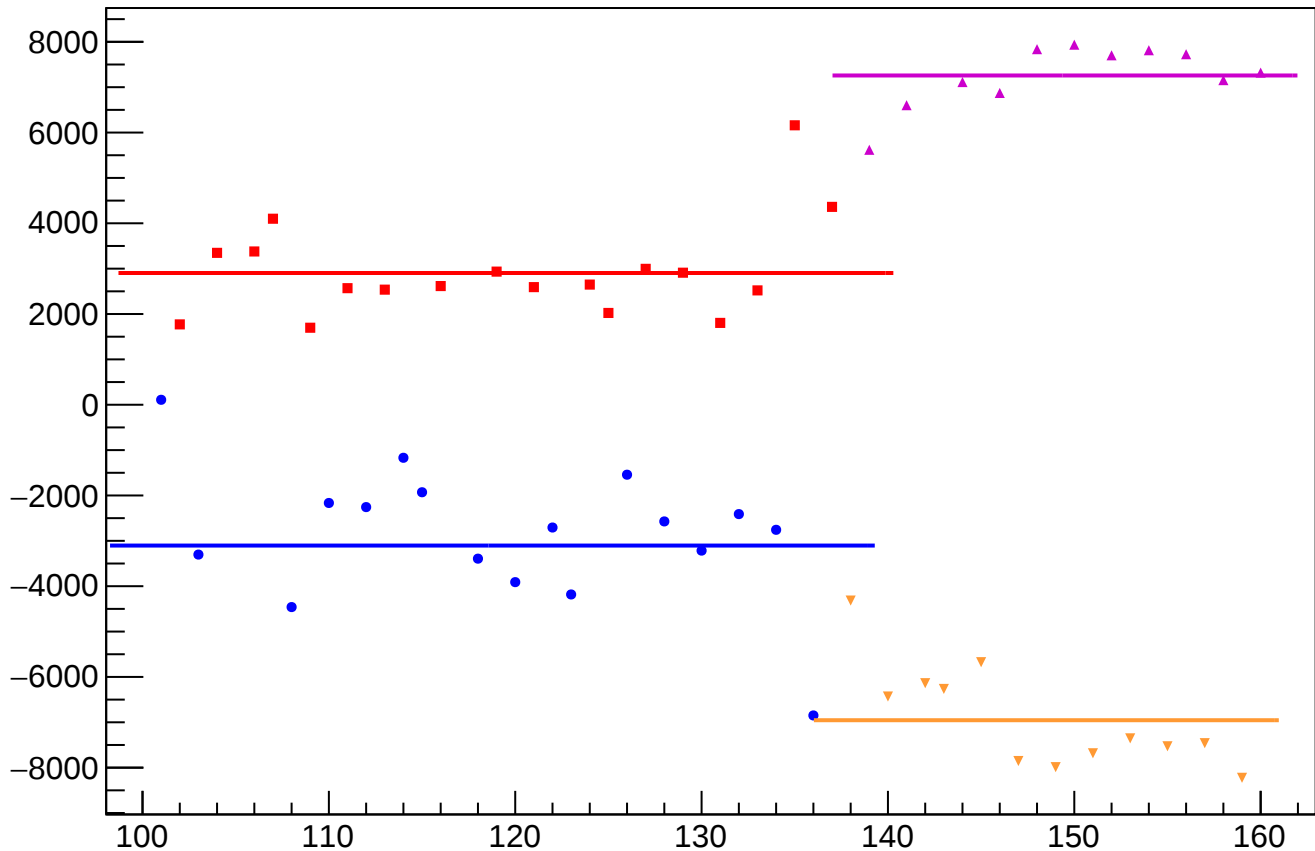
Right In: 315.988+/-0.000  $\chi^2/\text{NDF}$ : 105245970043528229052885068868464148480.0/16  
 Left Out: 178.075+/-0.000  $\chi^2/\text{NDF}$ : 651585134849869206771008425477275648.0/11  
 Right Out: -391.241+/-0.000  $\chi^2/\text{NDF}$ : 278615743451952201300141162839823876096.0/17  
 Left In: -183.693+/-0.000  $\chi^2/\text{NDF}$ : 436901081723904411805948593427185664.0/10  
 All: -21.518+/-0.000  $\chi^2/\text{NDF}$ : 622491467399

dit\_atr1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1086.695 \pm 0.000$   $\chi^2/\text{NDF}: 34612834720892896264590202148866752512.0/16$   
 Left Out:  $1185.823 \pm 0.000$   $\chi^2/\text{NDF}: 37557683033316568818198536296895348736.0/11$   
 Right Out:  $-1032.544 \pm 0.000$   $\chi^2/\text{NDF}: 47614887029691398867923382029973979136.0/17$   
 Left In:  $-1272.495 \pm 0.000$   $\chi^2/\text{NDF}: 29878198288838193261445678233542459392.0/10$   
 All:  $-28.738 \pm 0.000$   $\chi^2/\text{NDF}: 451779050699$

# dit\_atr2\_coil3\_mean vs Slug, Sign Corrected



Right In: -3104.086+/-0.000

Left Out: -6954.312+/-0.000

Right Out: 2904.095+/-0.000

Left In: 7258.241+/-0.000

$\chi^2/\text{NDF}$ : 2219830093322908449503226232551283621888.0/16

$\chi^2/\text{NDF}$ : 1136997499681278393426195734690374090752.0/11

$\chi^2/\text{NDF}$ : 863466592603439885705858083509569060864.0/17

$\chi^2/\text{NDF}$ : 401725539598456185043422844347240939520.0/10

Left: 244.554+/-0.000  $\chi^2/\text{NDF}$ : 9454239531636399

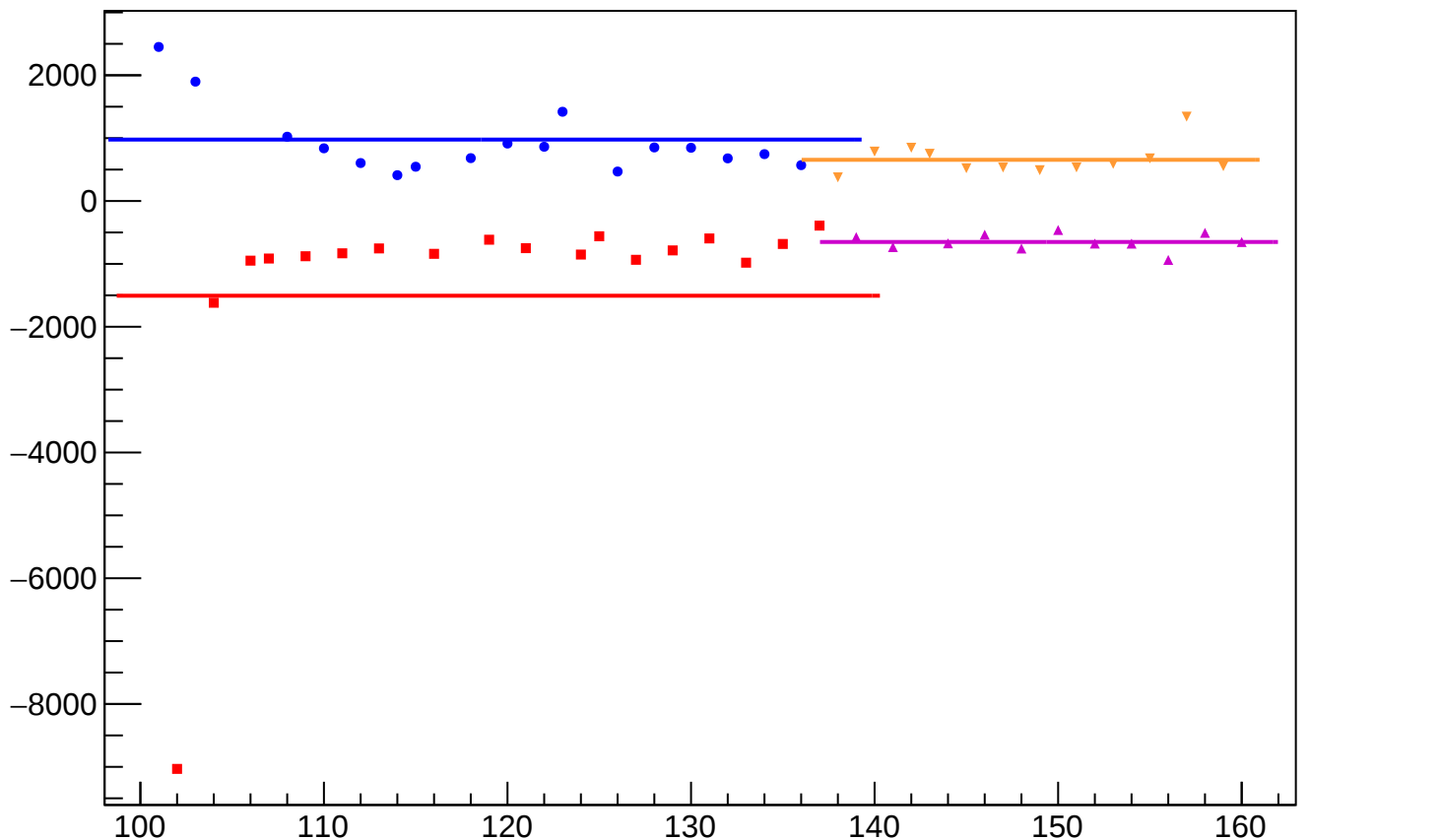
Right: -55.222+/-0.000  $\chi^2/\text{NDF}$ : 157960799748742

In: 2838.170+/-0.000  $\chi^2/\text{NDF}$ : 4535502787574974

Out: -2613.942+/-0.000  $\chi^2/\text{NDF}$ : 40895790477576

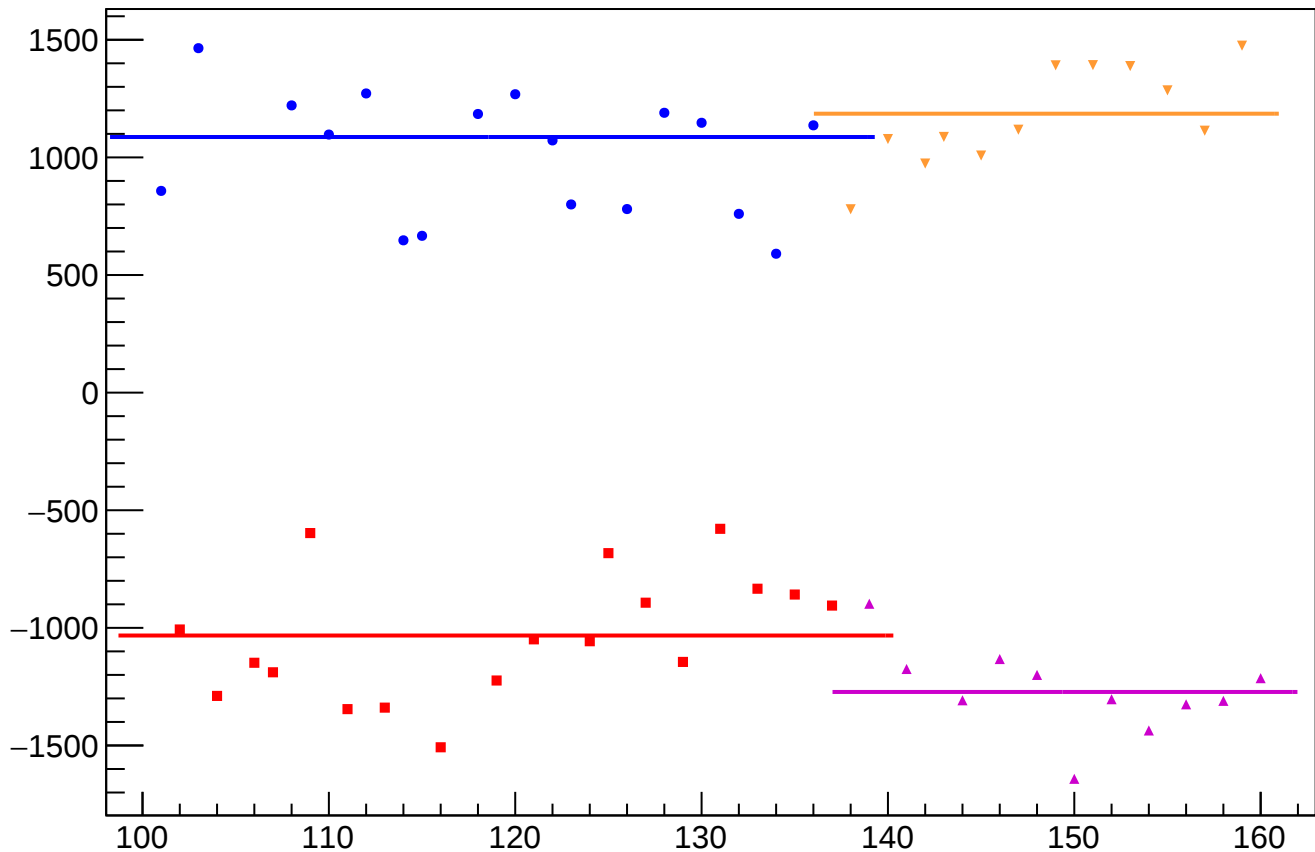
All: 114.630+/-0.000  $\chi^2/\text{NDF}$ : 11041021813

dit\_atr2\_coil3\_err\_mean vs Slug, Sign Corrected



Left:  $-6.696 \pm 0.000$   $\chi^2/\text{NDF}: 85279987998266189$   
 Right In:  $977.095 \pm 0.000$   $\chi^2/\text{NDF}: 229572106069348964280530708212477853696.0/16$   
 Left Out:  $655.166 \pm 0.000$   $\chi^2/\text{NDF}: 51874874251518032023744139034586251264.0/11$   
 Right Out:  $-1506.543 \pm 0.000$   $\chi^2/\text{NDF}: 3621204096431683433019783695973291655168.0/17$   
 Left In:  $-651.533 \pm 0.000$   $\chi^2/\text{NDF}: 14771751730893507411820547842989096960.0/10$   
 All:  $-126.548 \pm 0.000$   $\chi^2/\text{NDF}: 69369825406$

dit\_atr2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 1185.823+/-0.000

$\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11

Right Out: -1032.544+/-0.000

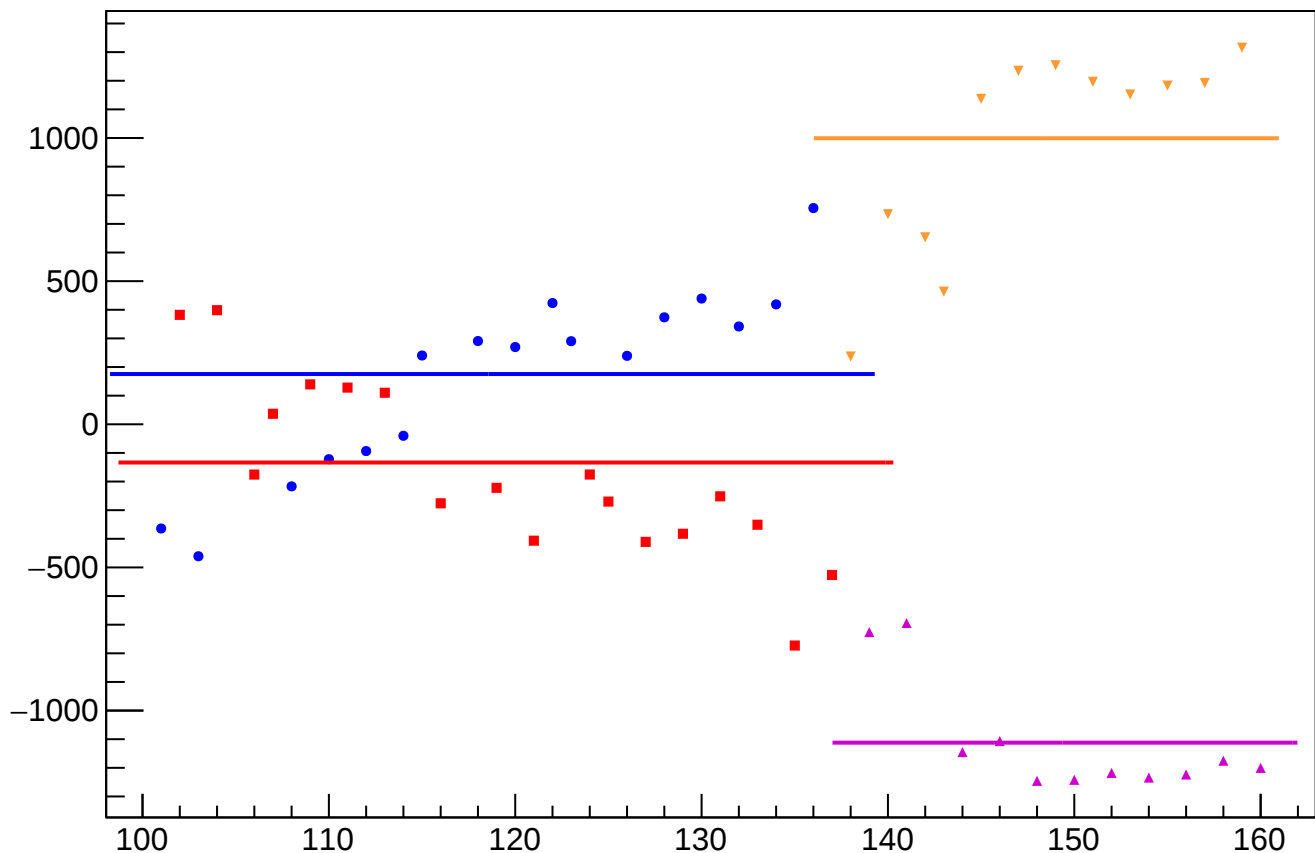
$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -1272.495+/-0.000

$\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10

All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam1\_coil3\_mean vs Slug, Sign Corrected



Right In: 175.537 +/- 0.000

$\chi^2/\text{NDF}$ : 95726276788203913105887314540463390720.0/16

Left Out: 999.146 +/- 0.000

$\chi^2/\text{NDF}$ : 105564366035075461974618801527085596672.0/11

Right Out: -133.524 +/- 0.000

$\chi^2/\text{NDF}$ : 76029583873433989388564211432616361984.0/17

Left In: -1112.074 +/- 0.000

$\chi^2/\text{NDF}$ : 34304488318555265110633397434623983616.0/10

Left: -70.218 +/- 0.000  $\chi^2/\text{NDF}$ : 2192085054079832

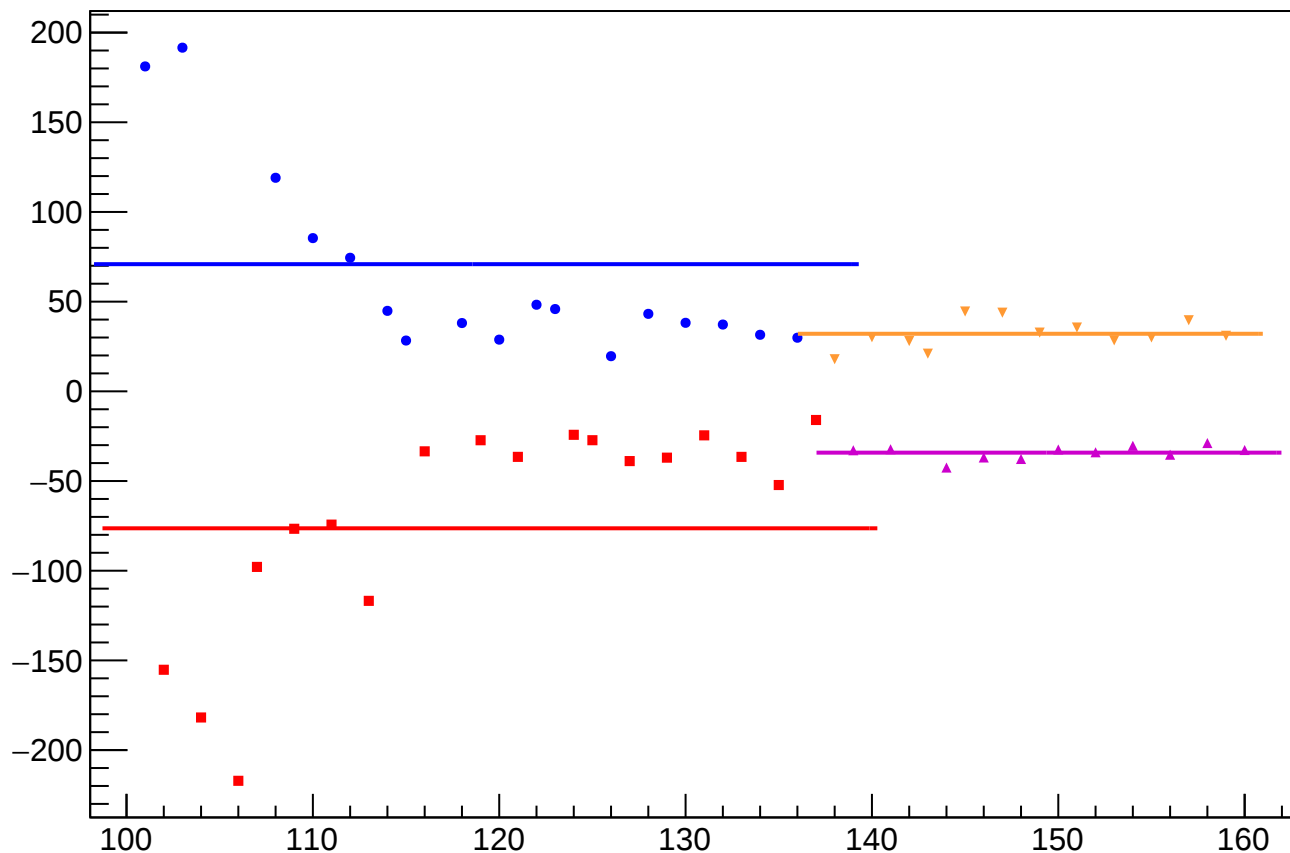
Right: 18.704 +/- 0.000  $\chi^2/\text{NDF}$ : 2053948365154779

In: -562.841 +/- 0.000  $\chi^2/\text{NDF}$ : 7898474617781587

Out: 500.465 +/- 0.000  $\chi^2/\text{NDF}$ : 6950350605404624

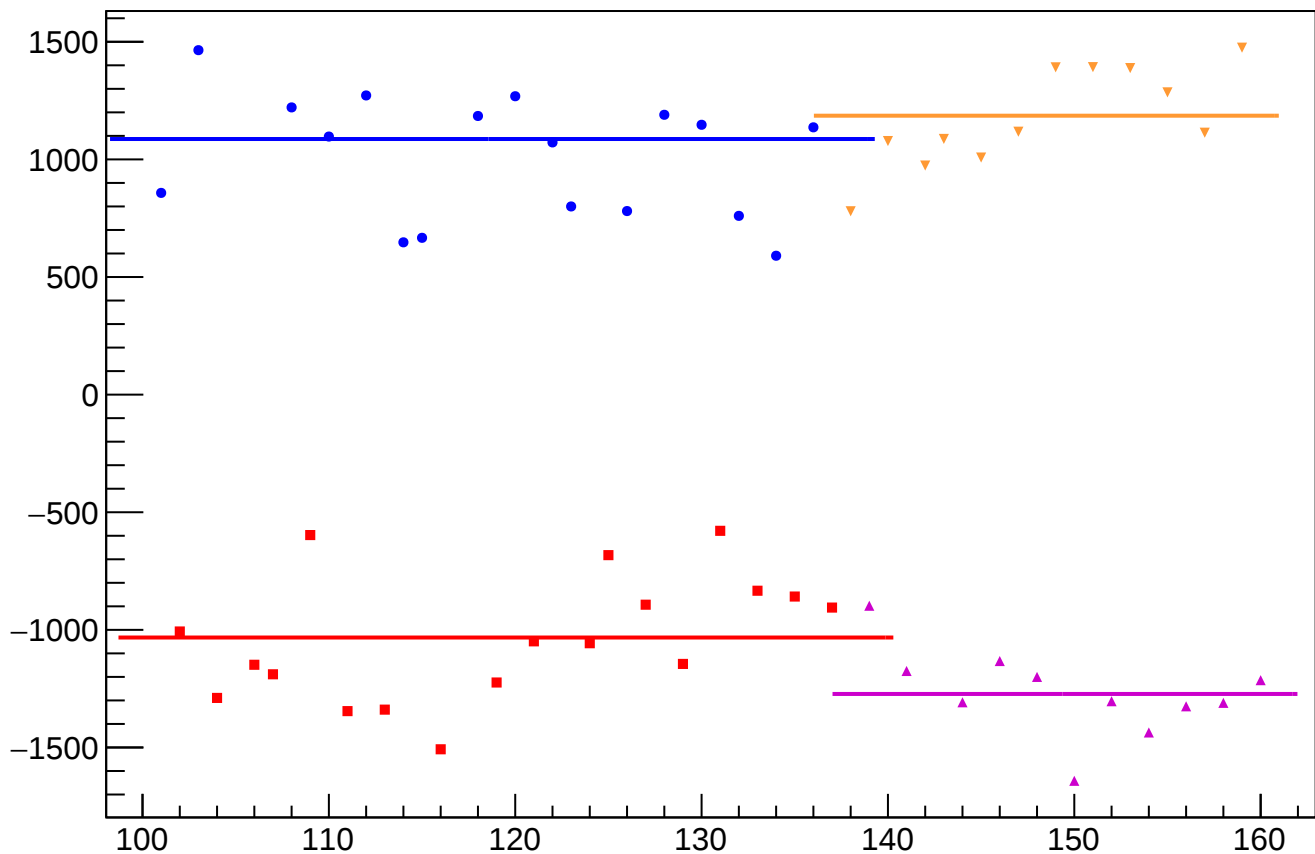
All: -31.679 +/- 0.000  $\chi^2/\text{NDF}$ : 240379233691

dit\_sam1\_coil3\_err\_mean vs Slug, Sign Corrected



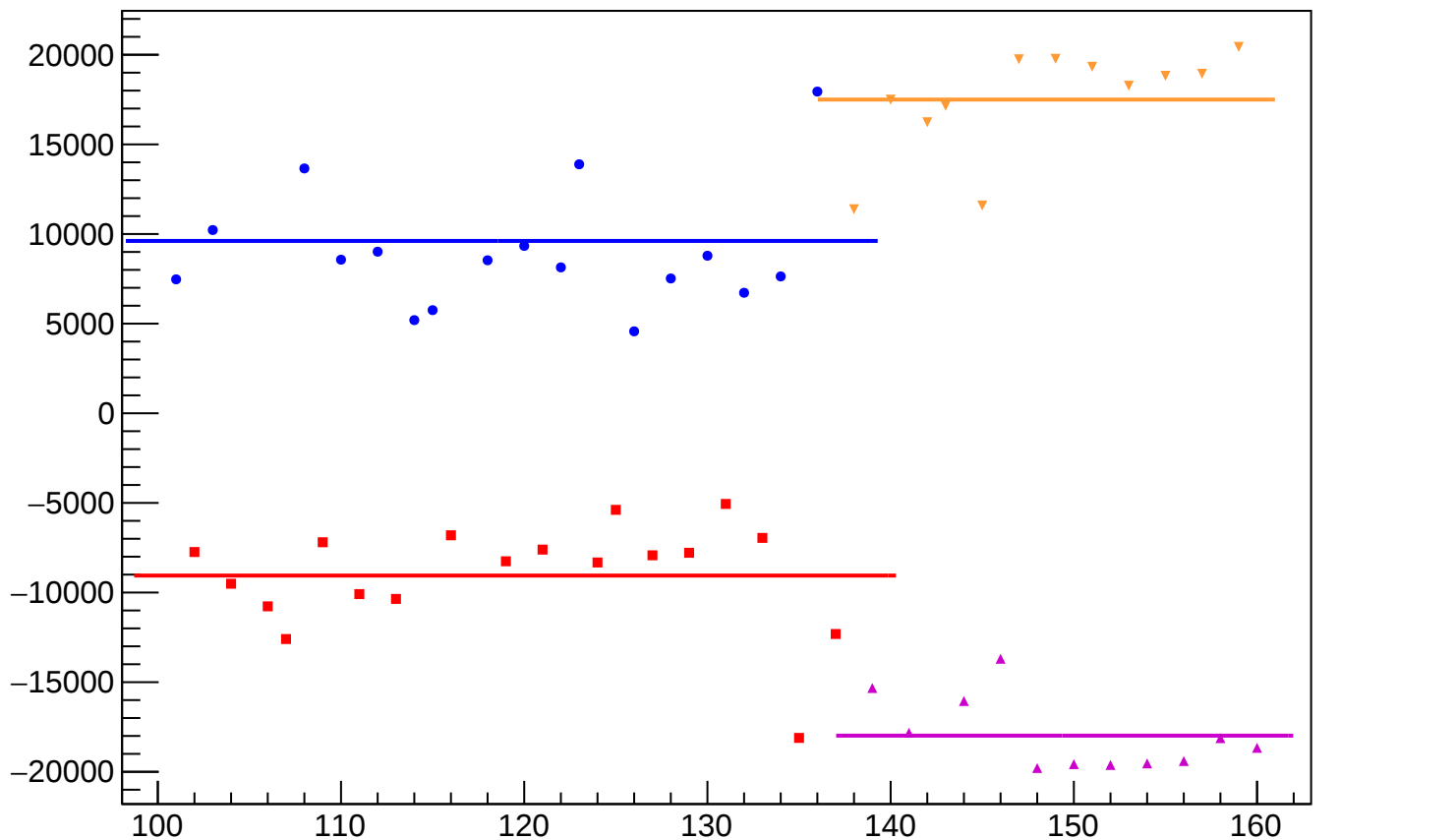
Right In: 70.892+/-0.000  $\chi^2/\text{NDF}$ : 2275734493854200628376973265629872128.0/16  
 Left Out: 32.091+/-0.000  $\chi^2/\text{NDF}$ : 54625109486428917738965927425212416.0/11  
 Right Out: -76.360+/-0.000  $\chi^2/\text{NDF}$ : 2382375226603203691068269213188620288.0/17  
 Left In: -34.184+/-0.000  $\chi^2/\text{NDF}$ : 12426918146189706802189676664848384.0/10  
 All: -2.498+/-0.000  $\chi^2/\text{NDF}$ : 1438817264667

dit\_sam1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 0.000  $\chi^2$ /NDF: 29878198288838193261445678233542459392.0/10  
 All: -28.738 $\pm$ 0.000  $\chi^2$ /NDF: 451779050699

dit\_sam2\_coil3\_mean vs Slug, Sign Corrected



Right In: 9614.932 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 9450588438014082769578324832201526476800.0/16

Left Out: 17500.786 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 7846813012026023217295297642858706632704.0/11

Right Out: -9052.441 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 6723672544856808135538254172135519944704.0/17

Left In: -17983.189 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 3584595715288567917039077291852254150656.0/10

Left: -472.367 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 591154280193240

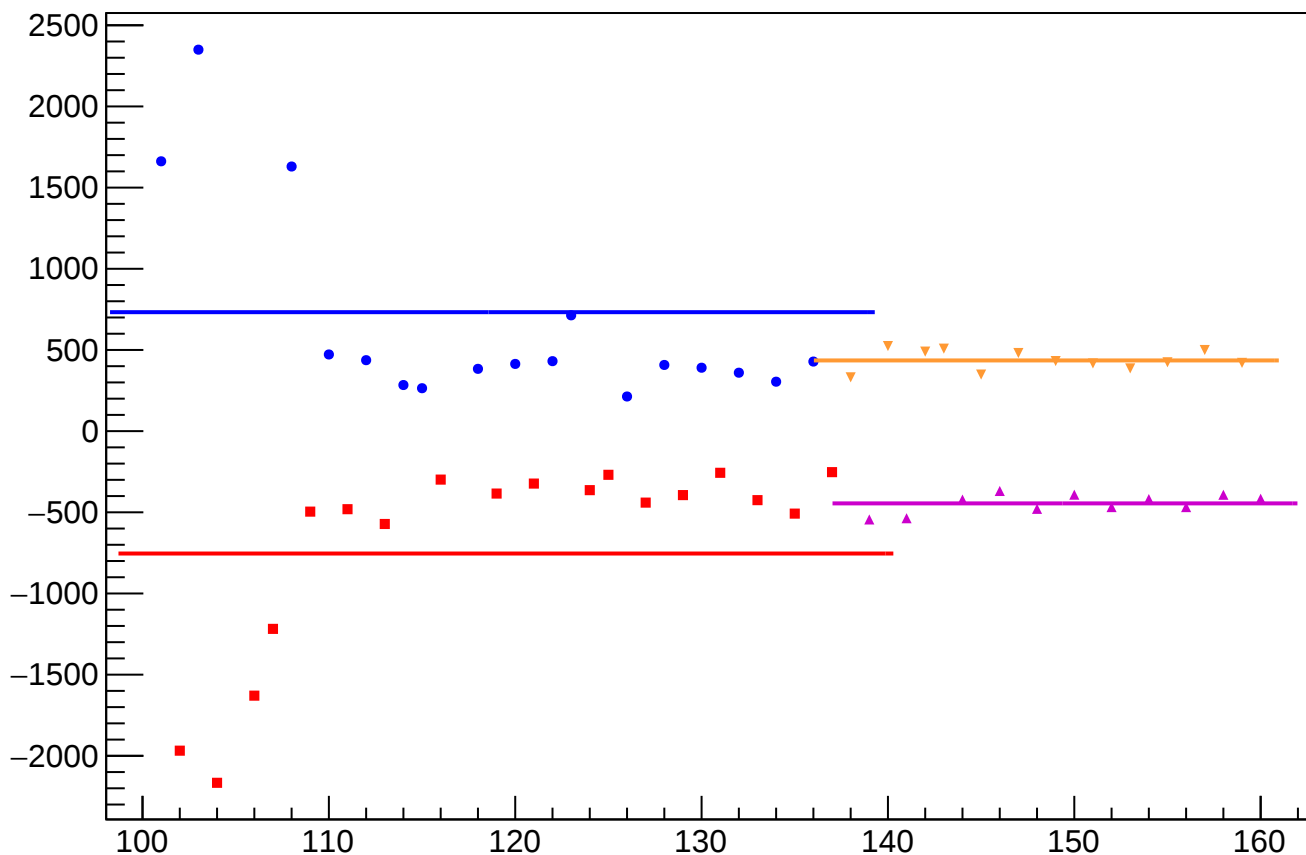
Right: 142.135 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 138895846085012

In: -6211.157 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 316153792077492

Out: 5810.172 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 296745484987090

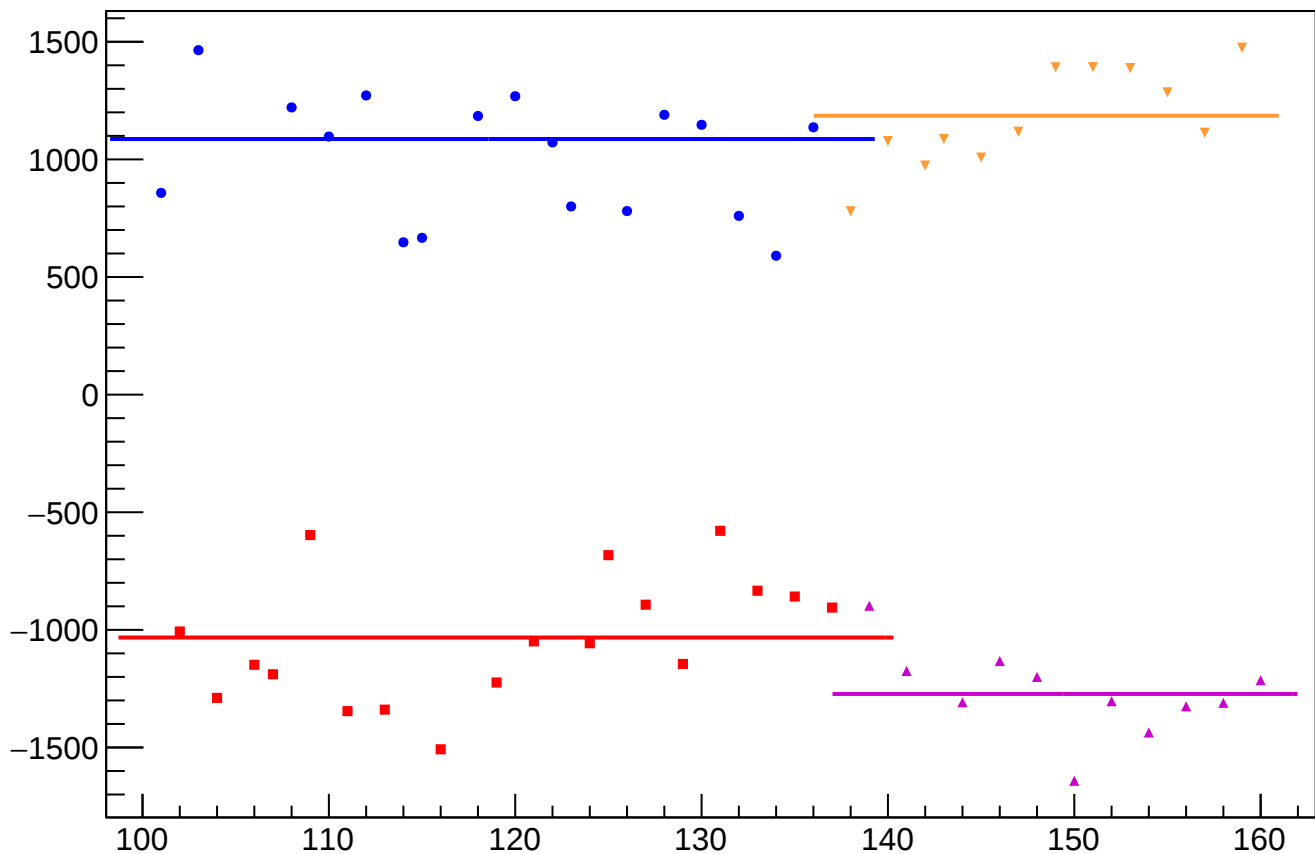
All: -206.039 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 73035158648

dit\_sam2\_coil3\_err\_mean vs Slug, Sign Corrected



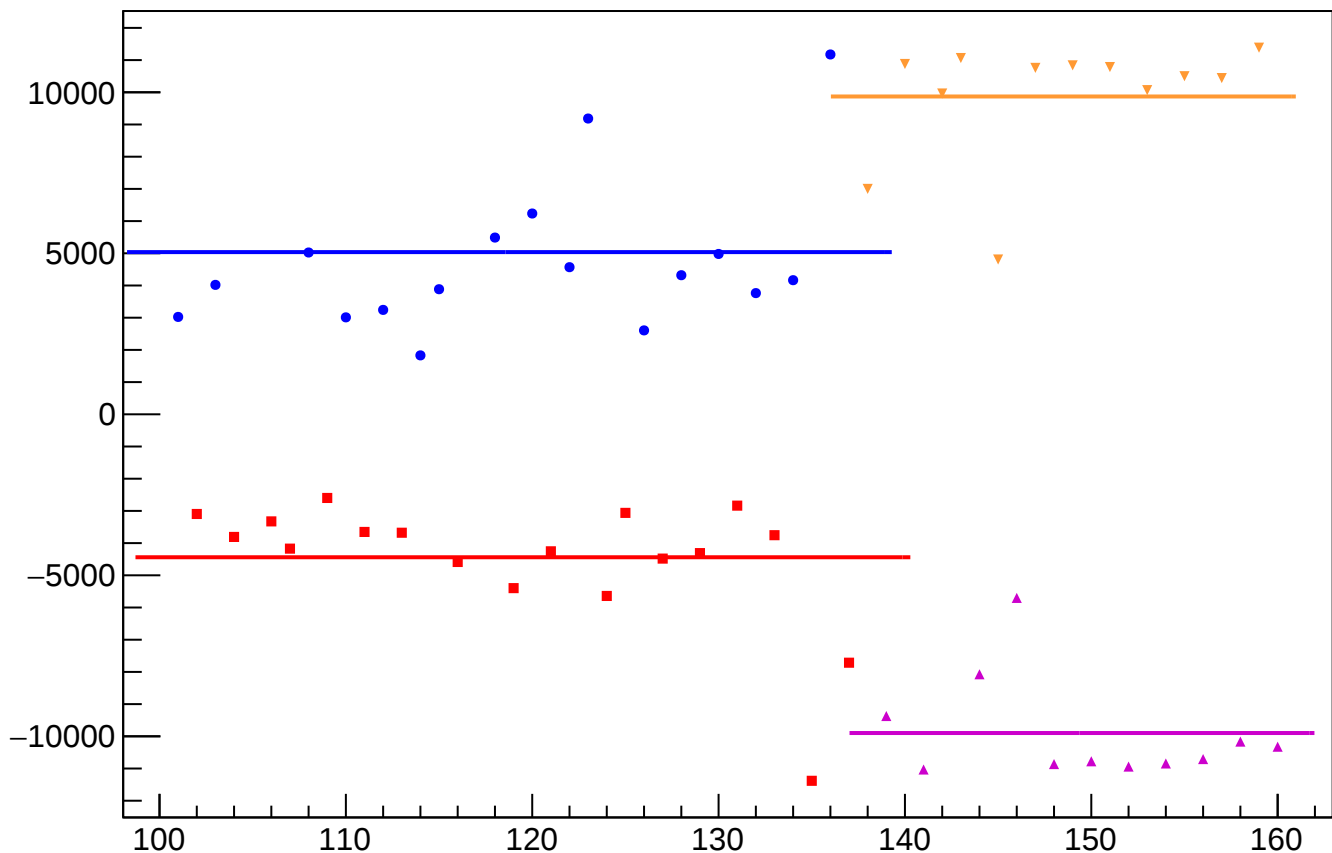
Right In: 732.742 $\pm$ 0.000  $\chi^2$ /NDF: 301740459340268060292037793871684435968.0/16  
 Left Out: 435.461 $\pm$ 0.000  $\chi^2$ /NDF: 3296772866704872156721083756341886976.0/11  
 Right Out: -753.888 $\pm$ 0.000  $\chi^2$ /NDF: 288199108578840040054796930815893700608.0/17  
 Left In: -445.056 $\pm$ 0.000  $\chi^2$ /NDF: 2842998762330216596366474874240106496.0/10  
 All: -15.352 $\pm$ 0.000  $\chi^2$ /NDF: 173147179684

dit\_sam2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



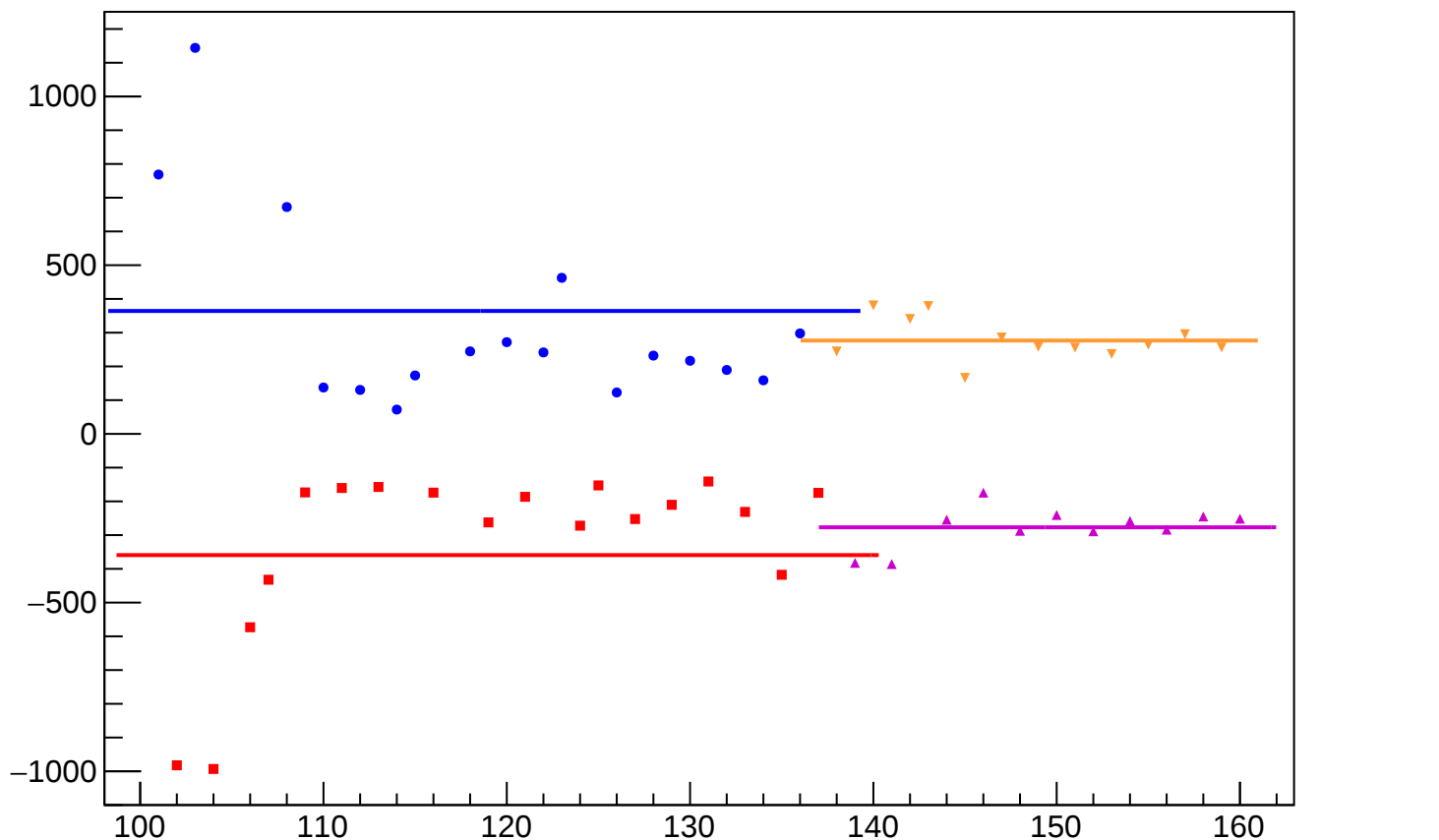
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam3\_coil3\_mean vs Slug, Sign Corrected



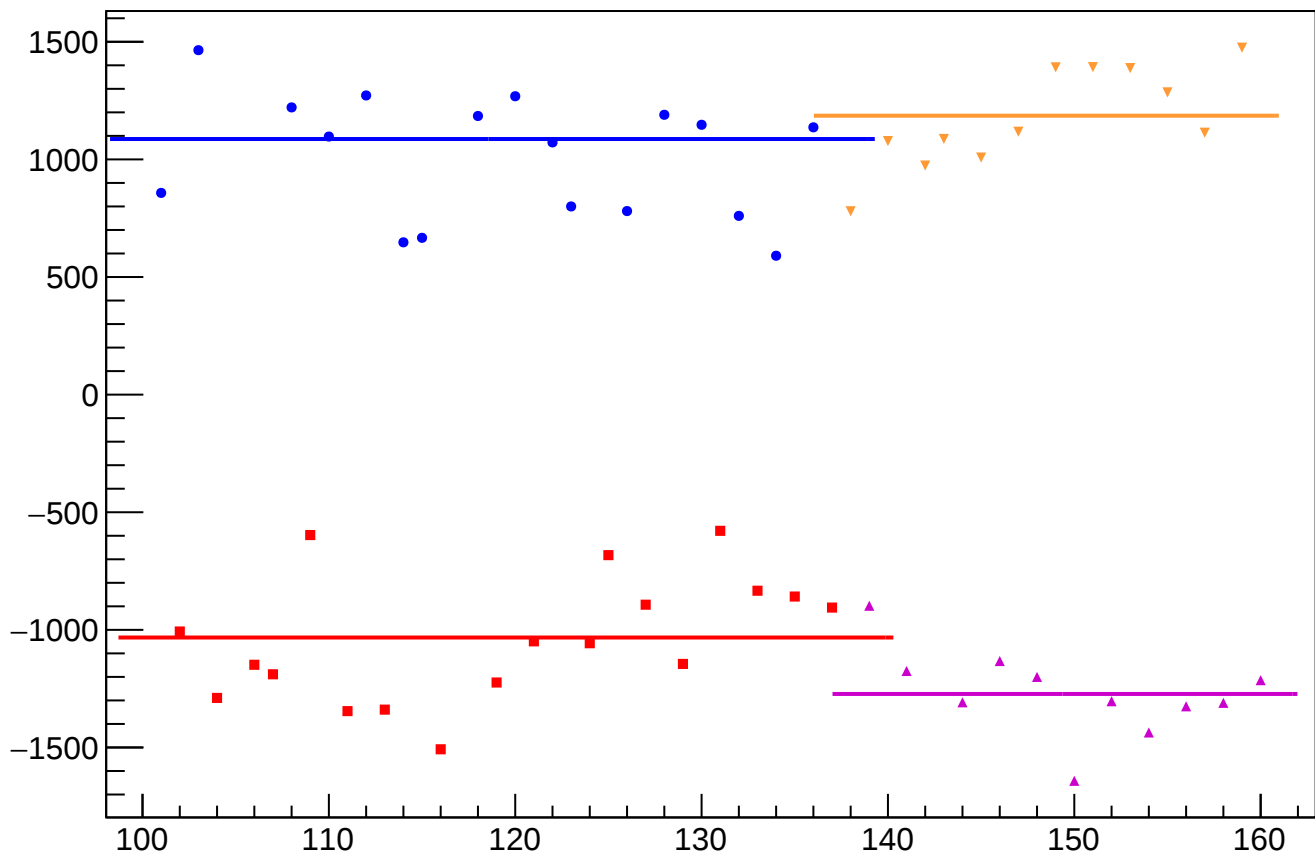
Right In: 5037.073+/-0.000  $\chi^2/\text{NDF}$ : 4548828903802726251449084375770641465344.0/16  
 Left Out: 9869.728+/-0.000  $\chi^2/\text{NDF}$ : 3268331225481673138710181152096956448768.0/11  
 Right Out: -4439.378+/-0.000  $\chi^2/\text{NDF}$ : 3162947435976288372848793793706623762432.0/17  
 Left In: -9897.674+/-0.000  $\chi^2/\text{NDF}$ : 2284840032345360361829819012042190749696.0/10  
 All: 18.033+/-0.000  $\chi^2/\text{NDF}$ : 2249108527212

dit\_sam3\_coil3\_err\_mean vs Slug, Sign Corrected



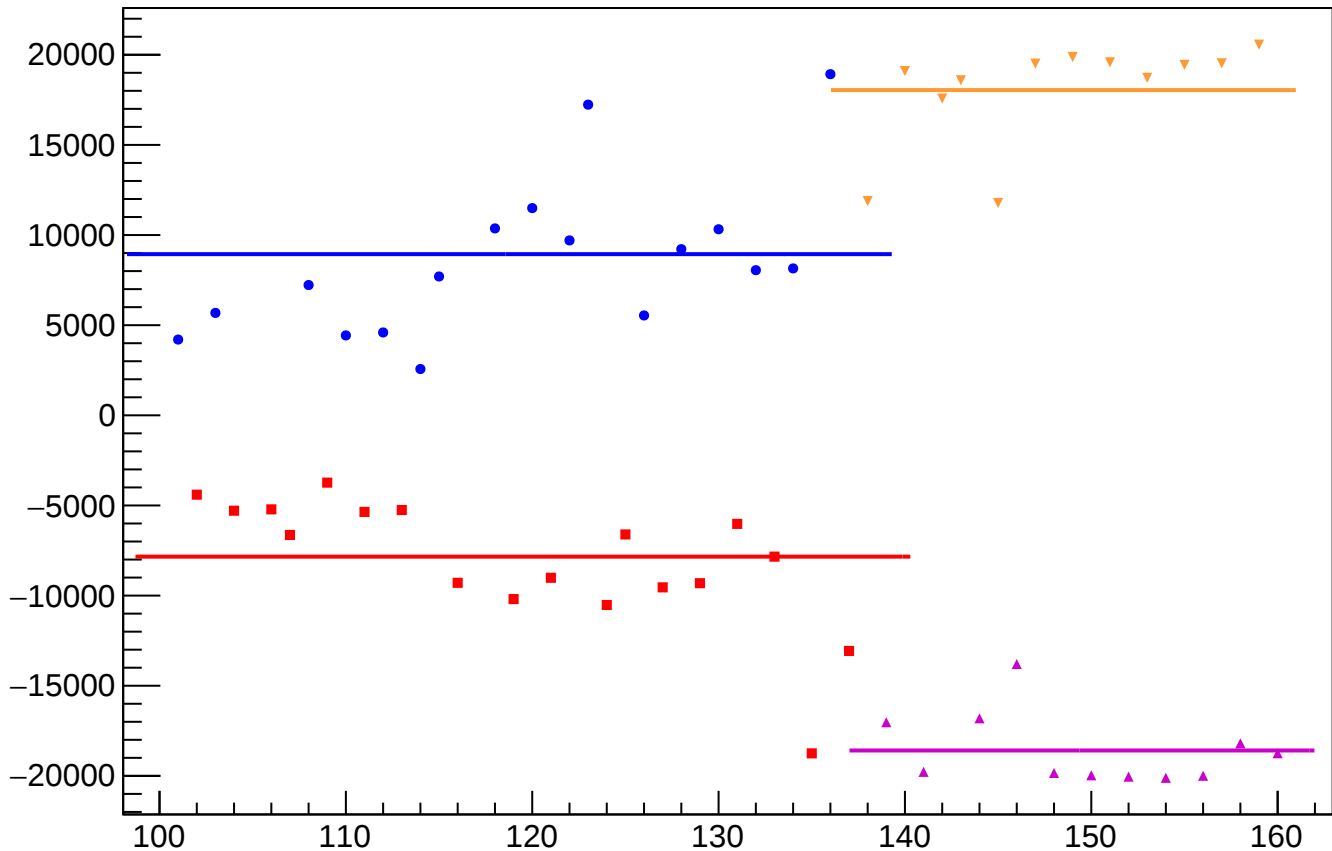
Left: -3.700 +/- 0.000  $\chi^2/\text{NDF}$ : 14733086249937499  
 Right: -2.895 +/- 0.000  $\chi^2/\text{NDF}$ : 3070385632196005  
 In: -3.394 +/- 0.000  $\chi^2/\text{NDF}$ : 230568672099103890  
 Out: -3.308 +/- 0.000  $\chi^2/\text{NDF}$ : 22380126507815765  
 All: -3.351 +/- 0.000  $\chi^2/\text{NDF}$ : 4543699433082

dit\_sam3\_coil3\_Ndata\_mean vs Slug, Sign Corrected



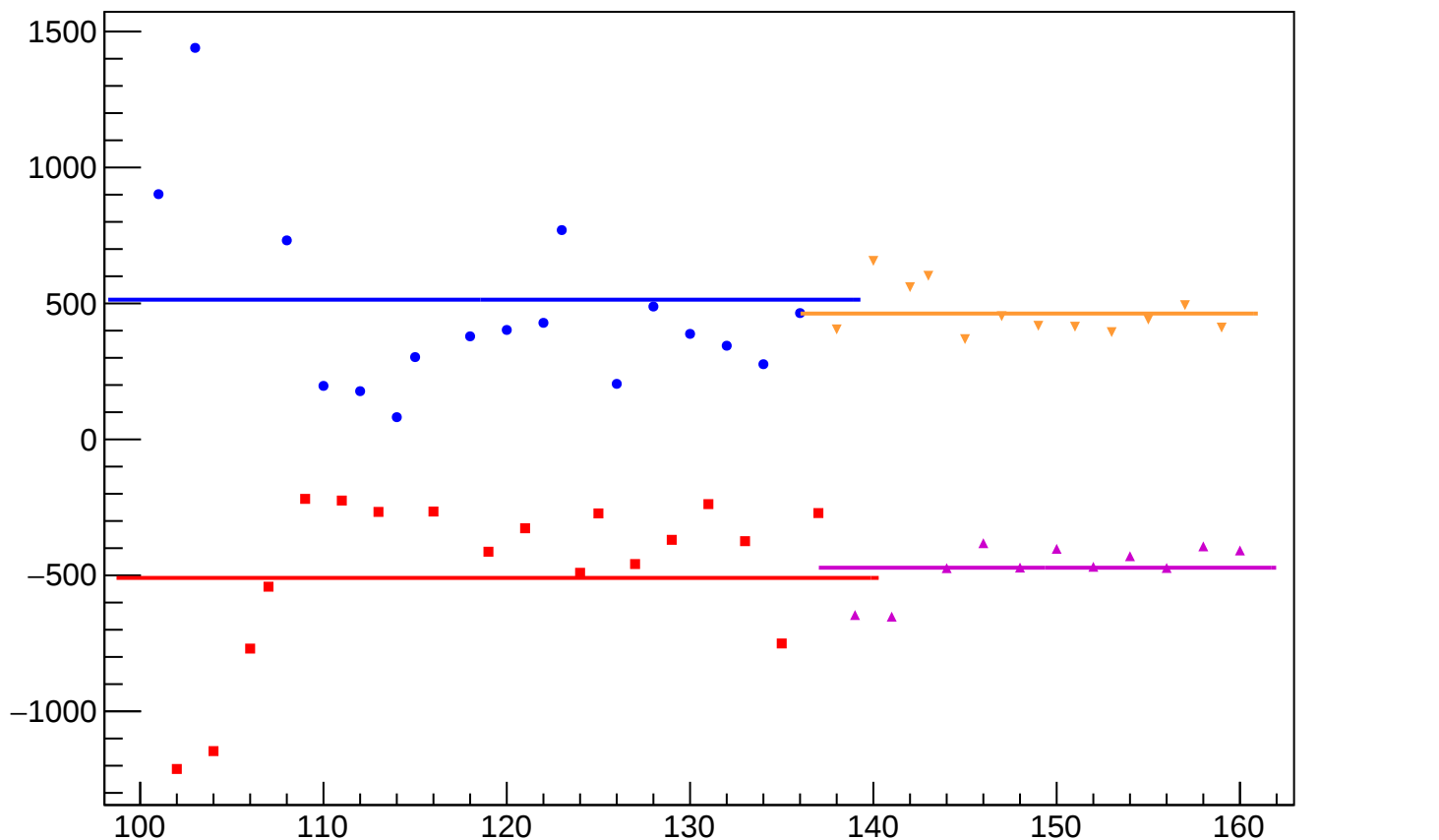
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam4\_coil3\_mean vs Slug, Sign Corrected



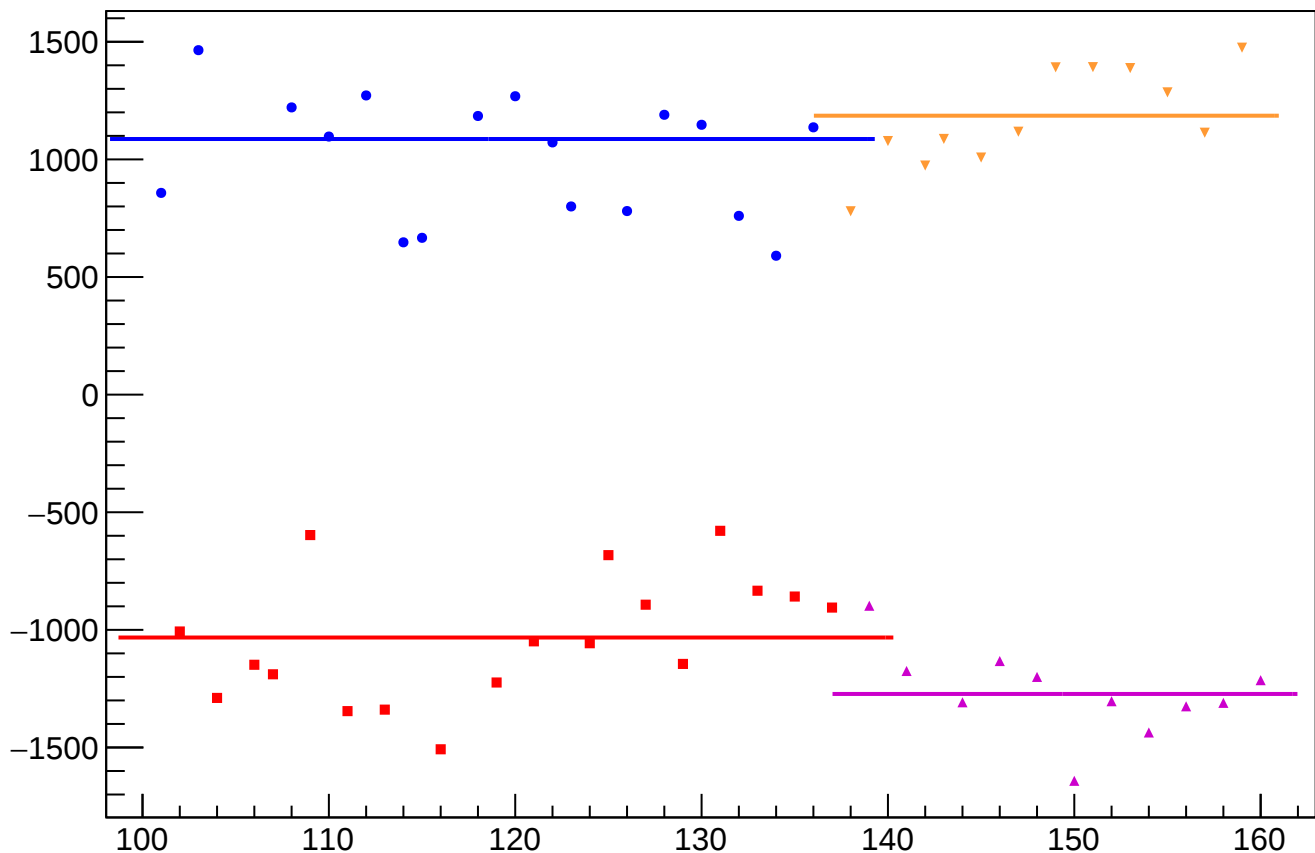
Right In: 8940.709 $\pm$ 0.000  $\chi^2$ /NDF: 14252298982323079680975069701388839682048.0/16  
 Left Out: 18042.230 $\pm$ 0.000  $\chi^2$ /NDF: 7640646522897487857135230772113708154880.0/11  
 Right Out: -7838.226 $\pm$ 0.000  $\chi^2$ /NDF: 9846913896882704140251290027429415878656.0/17  
 Left In: -18591.547 $\pm$ 0.000  $\chi^2$ /NDF: 3373827841621741048896229754913272365056.0/10  
 All: -106.123 $\pm$ 0.000  $\chi^2$ /NDF: 75286778977

dit\_sam4\_coil3\_err\_mean vs Slug, Sign Corrected



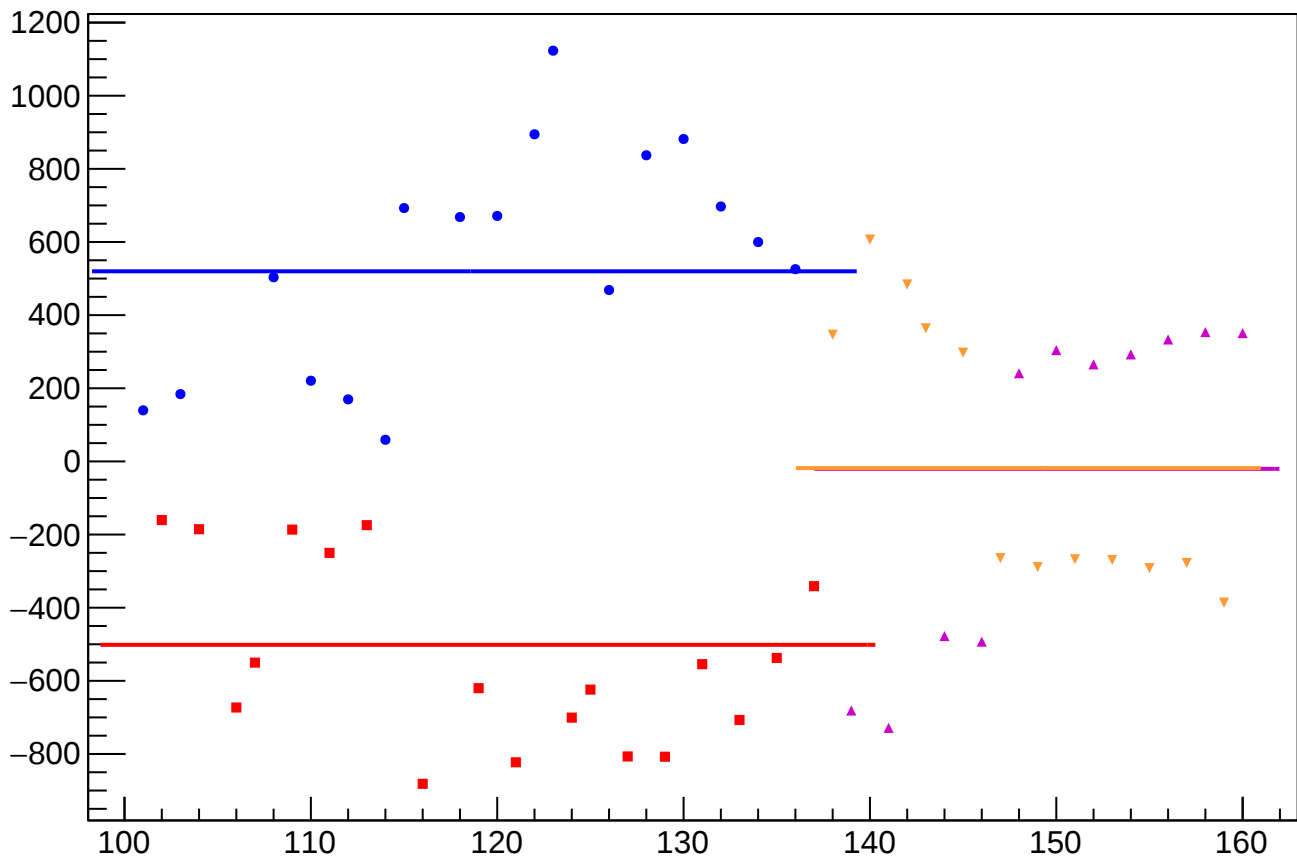
Right In: 513.843 $\pm$ 0.000  $\chi^2$ /NDF: 82523650579604289792107532326249955328.0/16  
 Left Out: 462.844 $\pm$ 0.000  $\chi^2$ /NDF: 6830648525623684817395137022896635904.0/11  
 Right Out: -509.362 $\pm$ 0.000  $\chi^2$ /NDF: 75678926781858707627162203023281750016.0/17  
 Left In: -471.889 $\pm$ 0.000  $\chi^2$ /NDF: 7312350507184124665031072386098659328.0/10  
 All: -8.346 $\pm$ 0.000  $\chi^2$ /NDF: 9433558408659

dit\_sam4\_coil3\_Ndata\_mean vs Slug, Sign Corrected



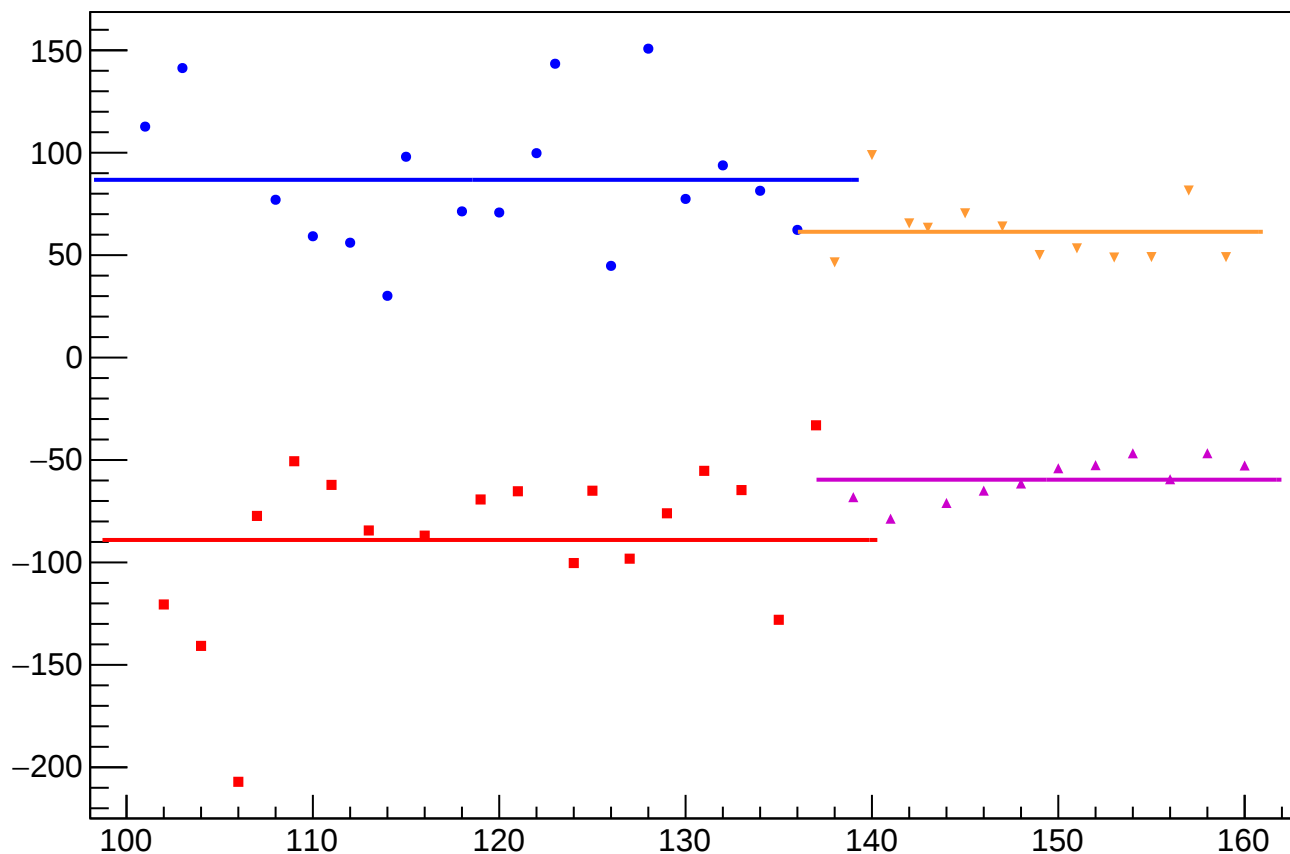
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 0.000  $\chi^2$ /NDF: 29878198288838193261445678233542459392.0/10  
 All: -28.738 $\pm$ 0.000  $\chi^2$ /NDF: 451779050699

# dit\_sam5\_coil3\_mean vs Slug, Sign Corrected



Left: -19.300+/-0.000  $\chi^2/\text{NDF}$ : 2934499708996127  
 Right In: 519.845+/-0.000  $\chi^2/\text{NDF}$ : 50391712122122241983004017290687545344.0/16  
 Right: 1.548+/-0.000  $\chi^2/\text{NDF}$ : 46337157544995128  
 Left Out: -18.246+/-0.000  $\chi^2/\text{NDF}$ : 114374265303636923998653923051335319552.0/11  
 In: 210.084+/-0.000  $\chi^2/\text{NDF}$ : 34558867557832259  
 Right Out: -501.527+/-0.000  $\chi^2/\text{NDF}$ : 45593938816418547057443342639695921152.0/17  
 Out: -231.020+/-0.000  $\chi^2/\text{NDF}$ : 253440629780937  
 Left In: -20.328+/-0.000  $\chi^2/\text{NDF}$ : 179073709967558112986870071766256975872.0/10  
 All: -10.264+/-0.000  $\chi^2/\text{NDF}$ : 757168536747

dit\_sam5\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 86.768+/-0.000

$\chi^2/\text{NDF}$ : 727044528904958232730586242846031872.0/16

Left Out: 61.403+/-0.000

$\chi^2/\text{NDF}$ : 223902255538930337202441578161897472.0/11

Right Out: -89.028+/-0.000

$\chi^2/\text{NDF}$ : 1014702057025769592460755223634247680.0/17

Left In: -59.611+/-0.000

$\chi^2/\text{NDF}$ : 90277020610973878591704182850322432.0/10

Left: 0.108+/-0.000  $\chi^2/\text{NDF}$ : 705677788547865304.0/16

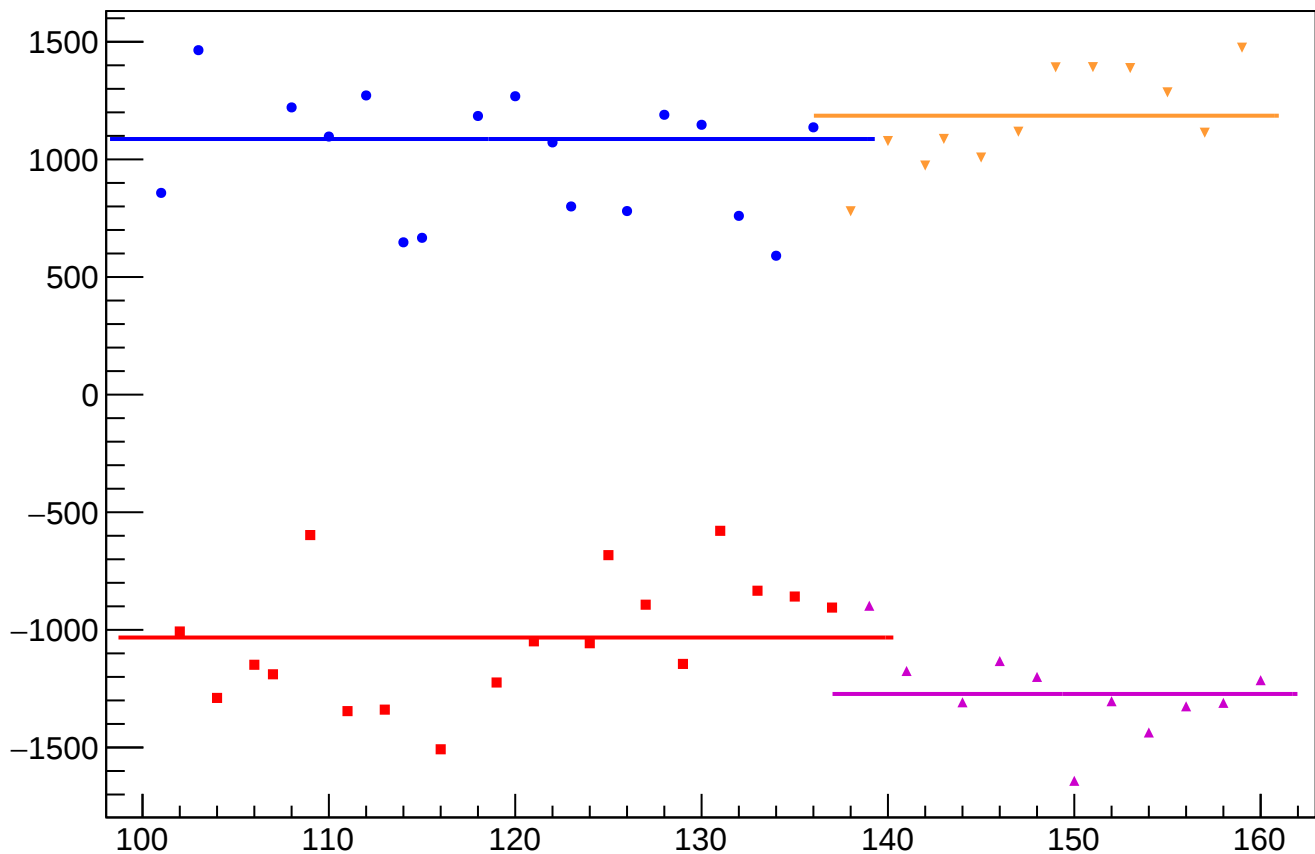
Right: -2.440+/-0.000  $\chi^2/\text{NDF}$ : 1262536853476175.0/16

In: 2.827+/-0.000  $\chi^2/\text{NDF}$ : 9344621970255555430.0/16

Out: -4.828+/-0.000  $\chi^2/\text{NDF}$ : 10295083565802392.0/16

All: -0.997+/-0.000  $\chi^2/\text{NDF}$ : 1968732828441.0/16

dit\_sam5\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 1185.823+/-0.000

$\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11

Right Out: -1032.544+/-0.000

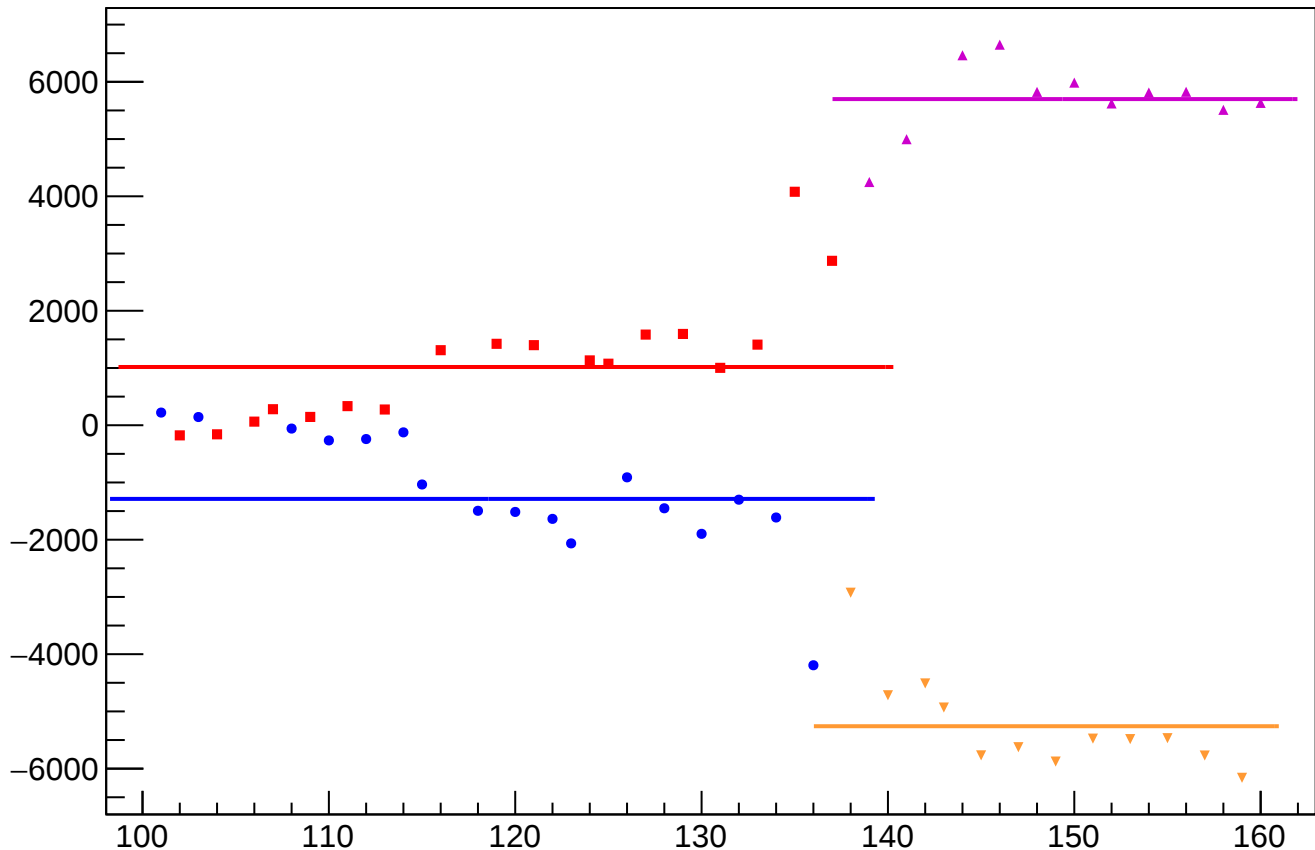
$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -1272.495+/-0.000

$\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10

Left: -59.351+/-0.000  $\chi^2/\text{NDF}$ : 2849915835351934  
 Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158  
 In: -266.178+/-0.000  $\chi^2/\text{NDF}$ : 2279519380852013  
 Out: 209.140+/-0.000  $\chi^2/\text{NDF}$ : 2054648458206867  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam6\_coil3\_mean vs Slug, Sign Corrected



Right In: -1287.018+/-0.000

Left Out: -5258.932+/-0.000

Right Out: 1017.680+/-0.000

Left In: 5698.540+/-0.000

$\chi^2/\text{NDF}$ : 1204676715439313496734702006985495150592.0/16

$\chi^2/\text{NDF}$ : 639767885689374953846002118656698351616.0/11

$\chi^2/\text{NDF}$ : 852354346622995689266162288487263371264.0/17

$\chi^2/\text{NDF}$ : 354071828835191382316642971835621703680.0/10

Left: 291.188+/-0.000  $\chi^2/\text{NDF}$ : 5627494160155441

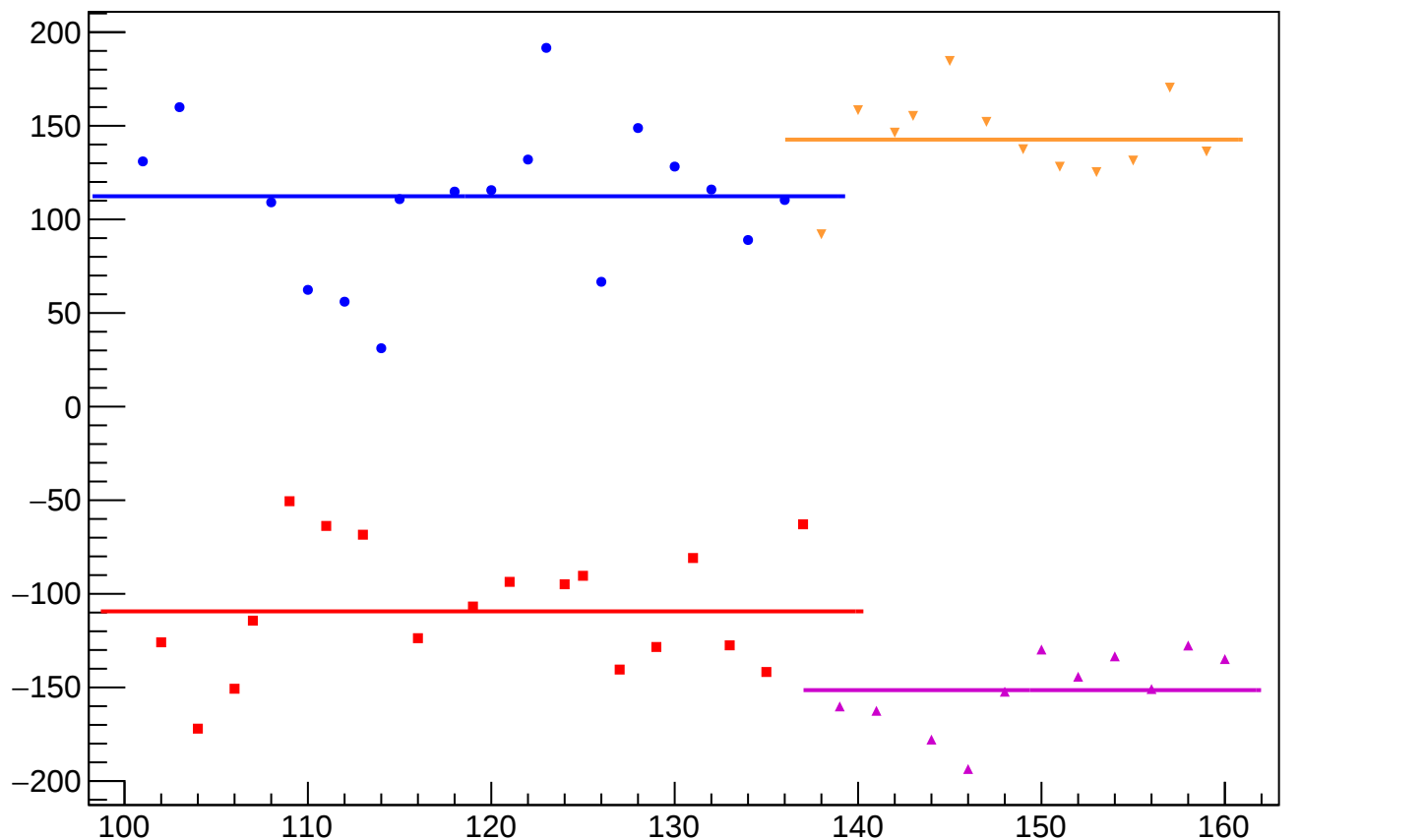
Right: -117.494+/-0.000  $\chi^2/\text{NDF}$ : 39276379731523

In: 2718.837+/-0.000  $\chi^2/\text{NDF}$ : 2097904135008849

Out: -2495.522+/-0.000  $\chi^2/\text{NDF}$ : 17258594612441

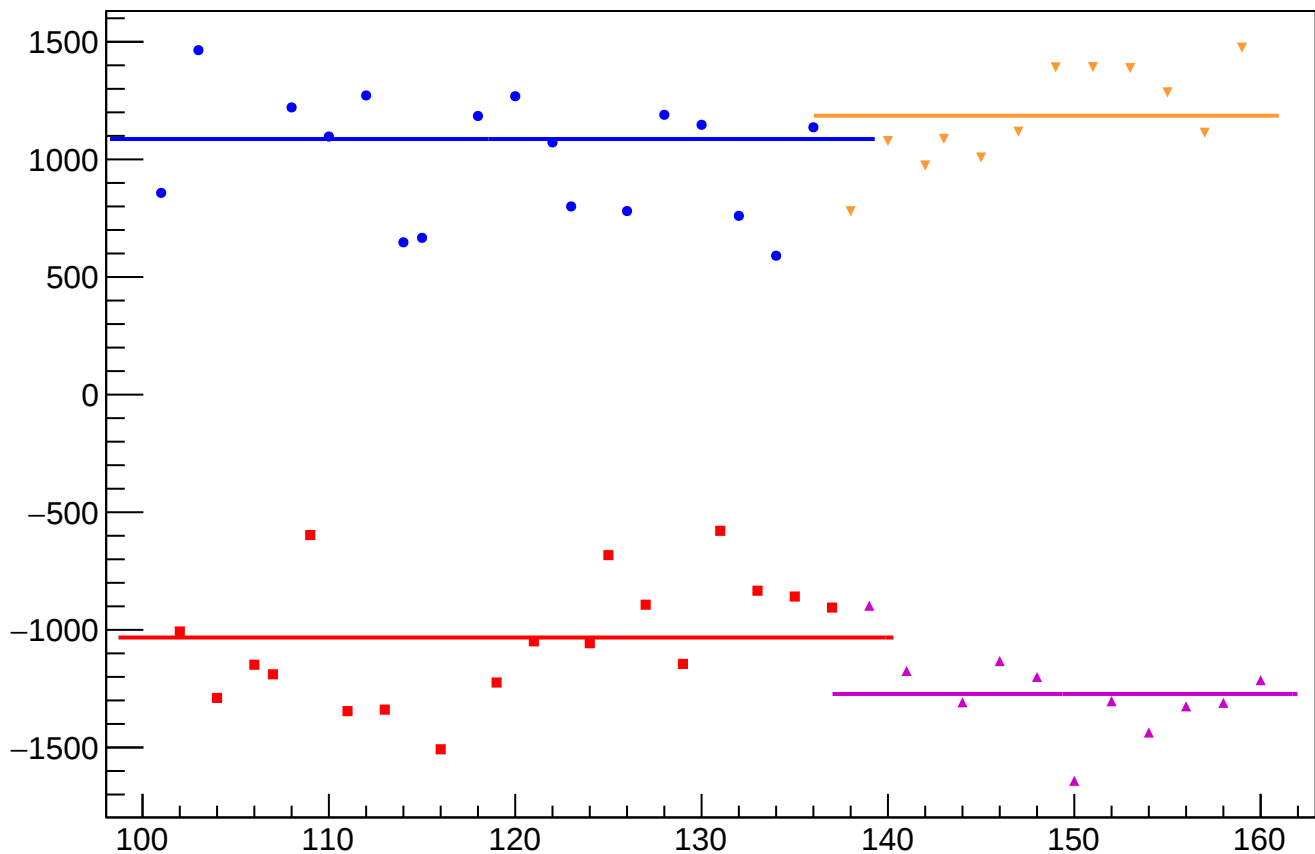
All: 114.063+/-0.000  $\chi^2/\text{NDF}$ : 603359178912

dit\_sam6\_coil3\_err\_mean vs Slug, Sign Corrected



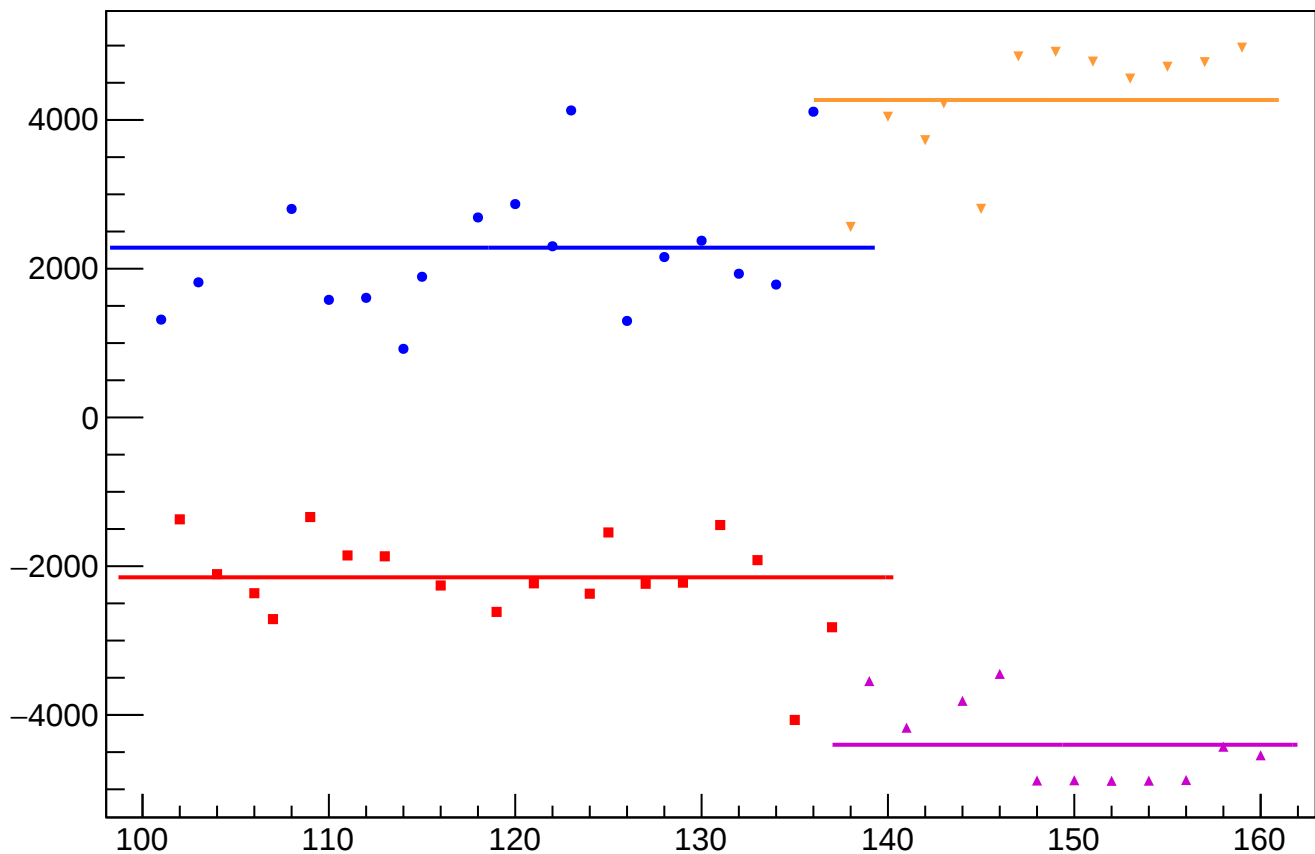
Right In: 112.364 $\pm$ 0.000  $\chi^2$ /NDF: 704132882376699060399654305188020224.0/16  
 Left Out: 142.624 $\pm$ 0.000  $\chi^2$ /NDF: 490075896728839516785223596523913216.0/11  
 Right Out: -109.364 $\pm$ 0.000  $\chi^2$ /NDF: 838845293661778137888588246433136640.0/17  
 Left In: -151.432 $\pm$ 0.000  $\chi^2$ /NDF: 371010449971260656611055665401561088.0/10  
 All: -3.647 $\pm$ 0.000  $\chi^2$ /NDF: 5956048648863

dit\_sam6\_coil3\_Ndata\_mean vs Slug, Sign Corrected



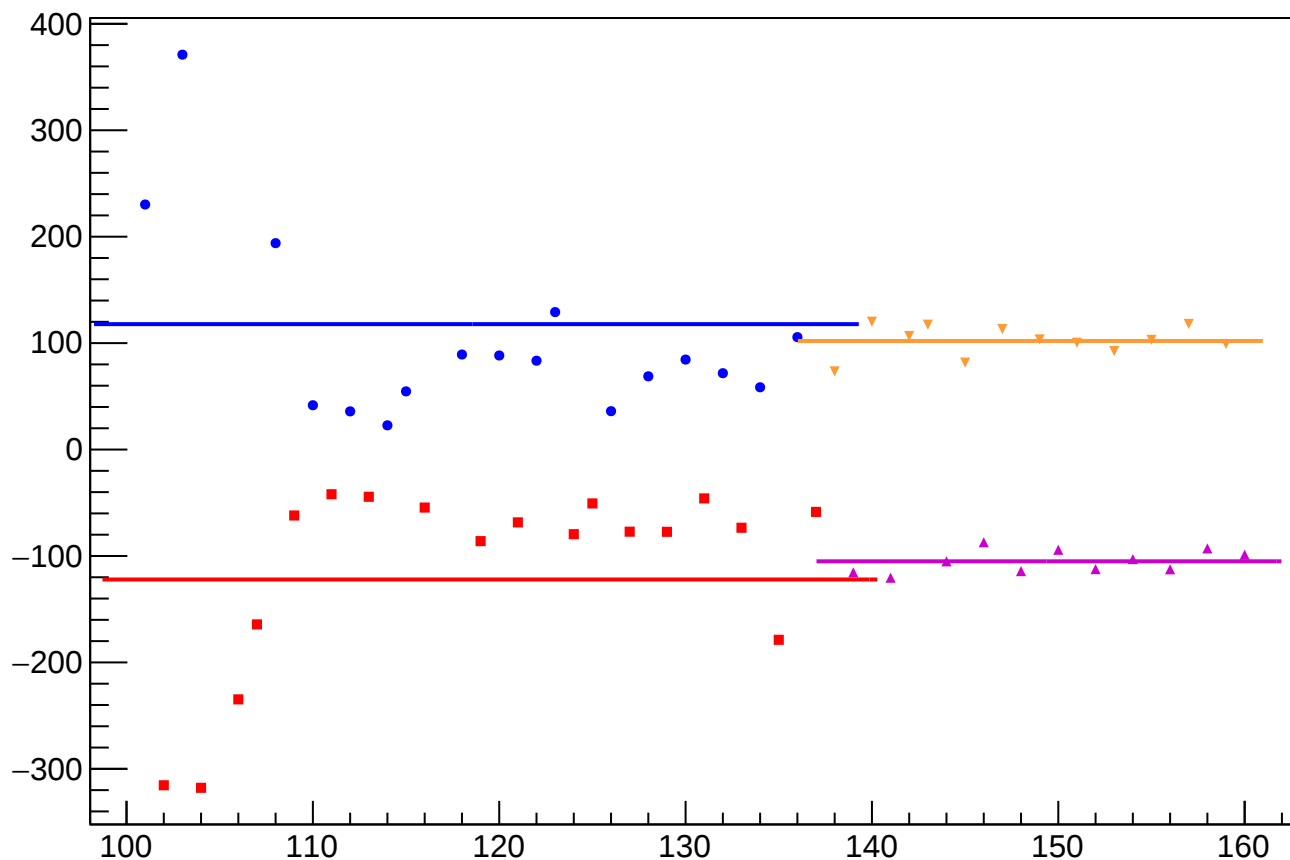
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam7\_coil3\_mean vs Slug, Sign Corrected



Right In: 2282.778+/-0.000  $\chi^2/\text{NDF}$ : 521869333583833068444115371437594771456.0/16  
 Left Out: 4268.620+/-0.000  $\chi^2/\text{NDF}$ : 576373438836983826408088908187698200576.0/11  
 Right Out: -2149.386+/-0.000  $\chi^2/\text{NDF}$ : 320631411360836158094549979591860027392.0/17  
 Left In: -4401.016+/-0.000  $\chi^2/\text{NDF}$ : 271313470445828573503909403246788083712.0/10  
 All: -54.917+/-0.000  $\chi^2/\text{NDF}$ : 432342881547

dit\_sam7\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 117.825+/-0.000

$\chi^2/\text{NDF}$ : 6199421197695716182570916449760575488.0/16

Left Out: 102.028+/-0.000

$\chi^2/\text{NDF}$ : 177124098717282134999436009607790592.0/11

Right Out: -122.099+/-0.000

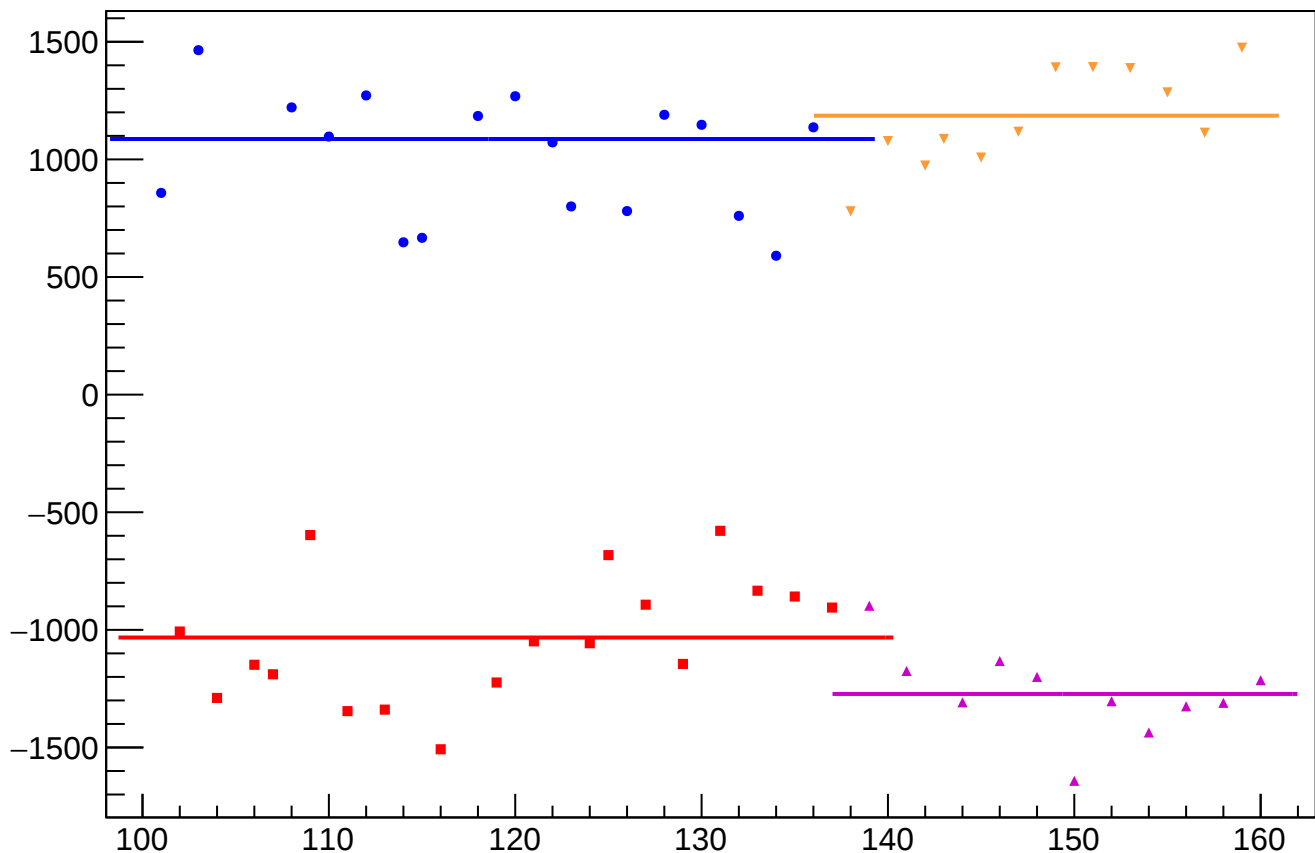
$\chi^2/\text{NDF}$ : 6546124684147045667679194482005245952.0/17

Left In: -105.016+/-0.000

$\chi^2/\text{NDF}$ : 98103905520424947900201643718737920.0/10

All: -3.312+/-0.000  $\chi^2/\text{NDF}$ : 5303102045081

dit\_sam7\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 1185.823+/-0.000

$\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11

Right Out: -1032.544+/-0.000

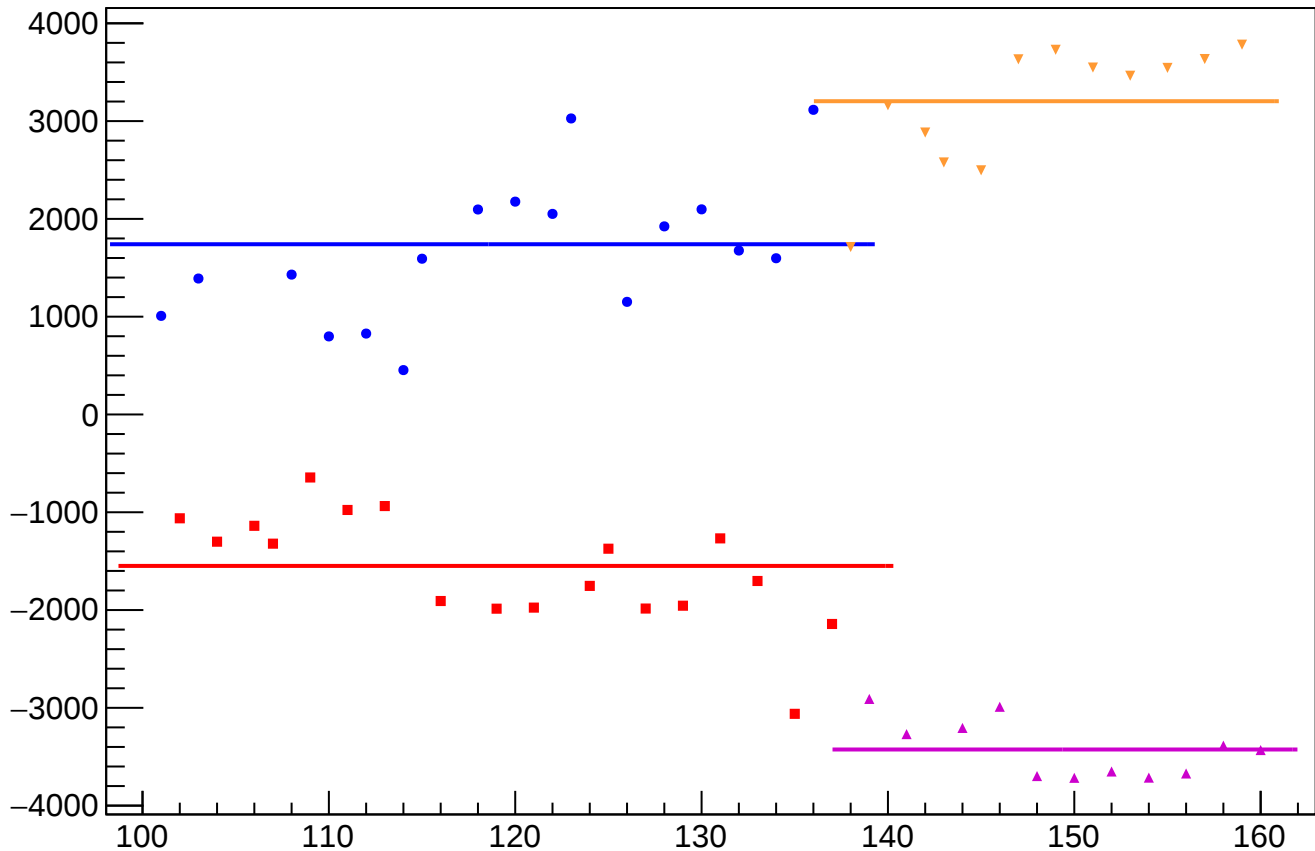
$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -1272.495+/-0.000

$\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10

Left: -59.351+/-0.000  $\chi^2/\text{NDF}$ : 2849915835351934  
 Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158  
 In: -266.178+/-0.000  $\chi^2/\text{NDF}$ : 2279519380852013  
 Out: 209.140+/-0.000  $\chi^2/\text{NDF}$ : 2054648458206867  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam8\_coil3\_mean vs Slug, Sign Corrected



Right In: 1740.720+/-0.000

$\chi^2/\text{NDF}$ : 348962001897552007024222547428010622976.0/16

Left Out: 3203.449+/-0.000

$\chi^2/\text{NDF}$ : 345784551251095236762093437118983438336.0/11

Right Out: -1548.740+/-0.000

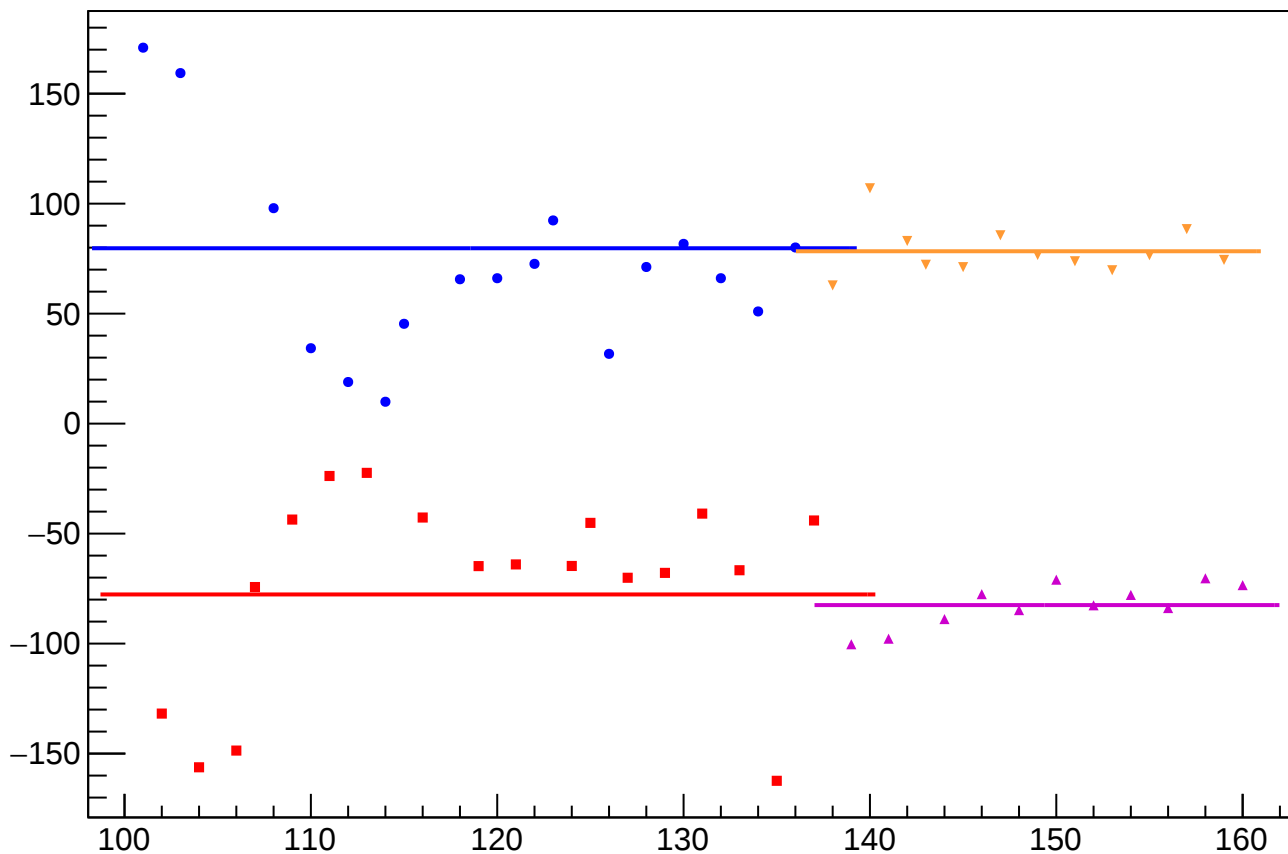
$\chi^2/\text{NDF}$ : 255013280564316736413287354207314116608.0/17

Left In: -3426.091+/-0.000

$\chi^2/\text{NDF}$ : 74472499127256765634021143910696353792.0/10

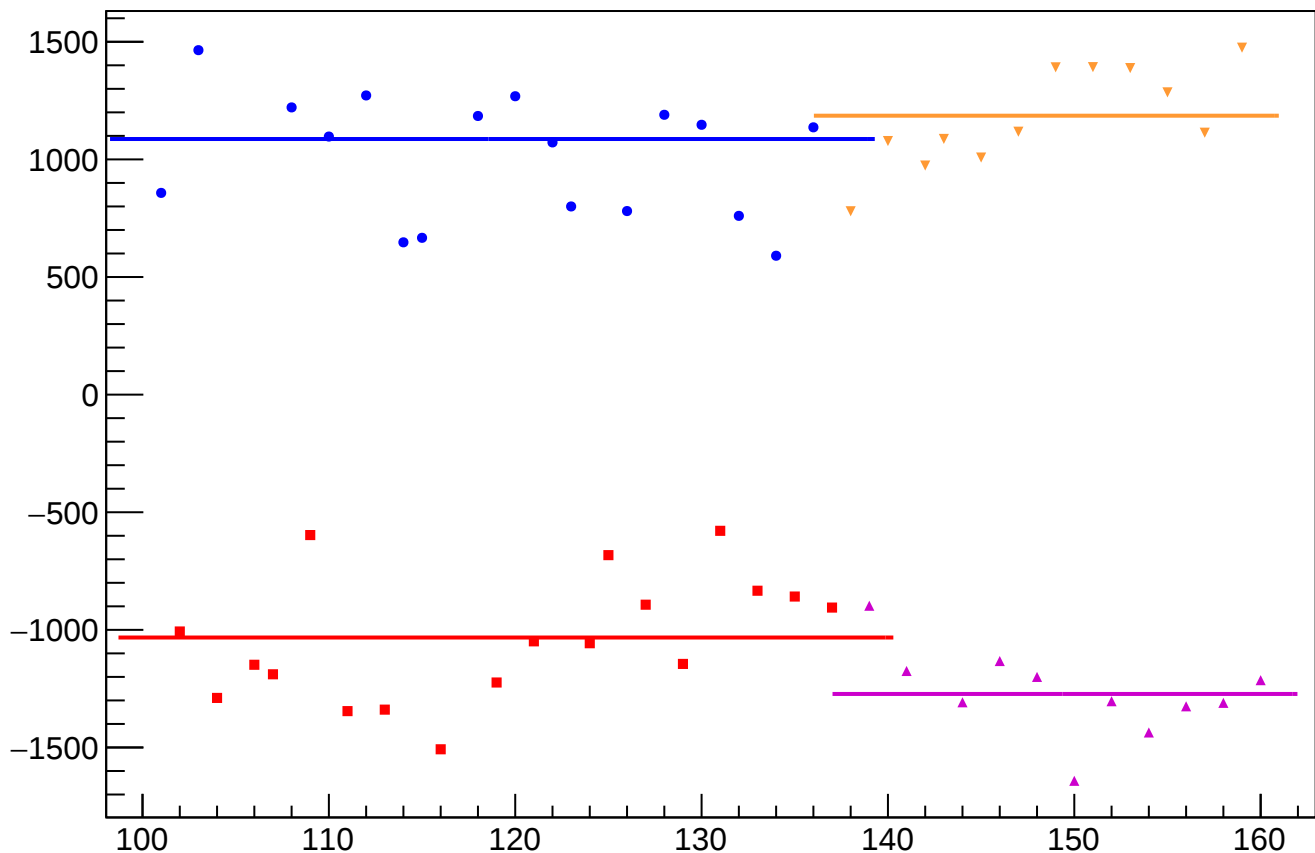
All: -56.566+/-0.000  $\chi^2/\text{NDF}$ : 251115987622

dit\_sam8\_coil3\_err\_mean vs Slug, Sign Corrected



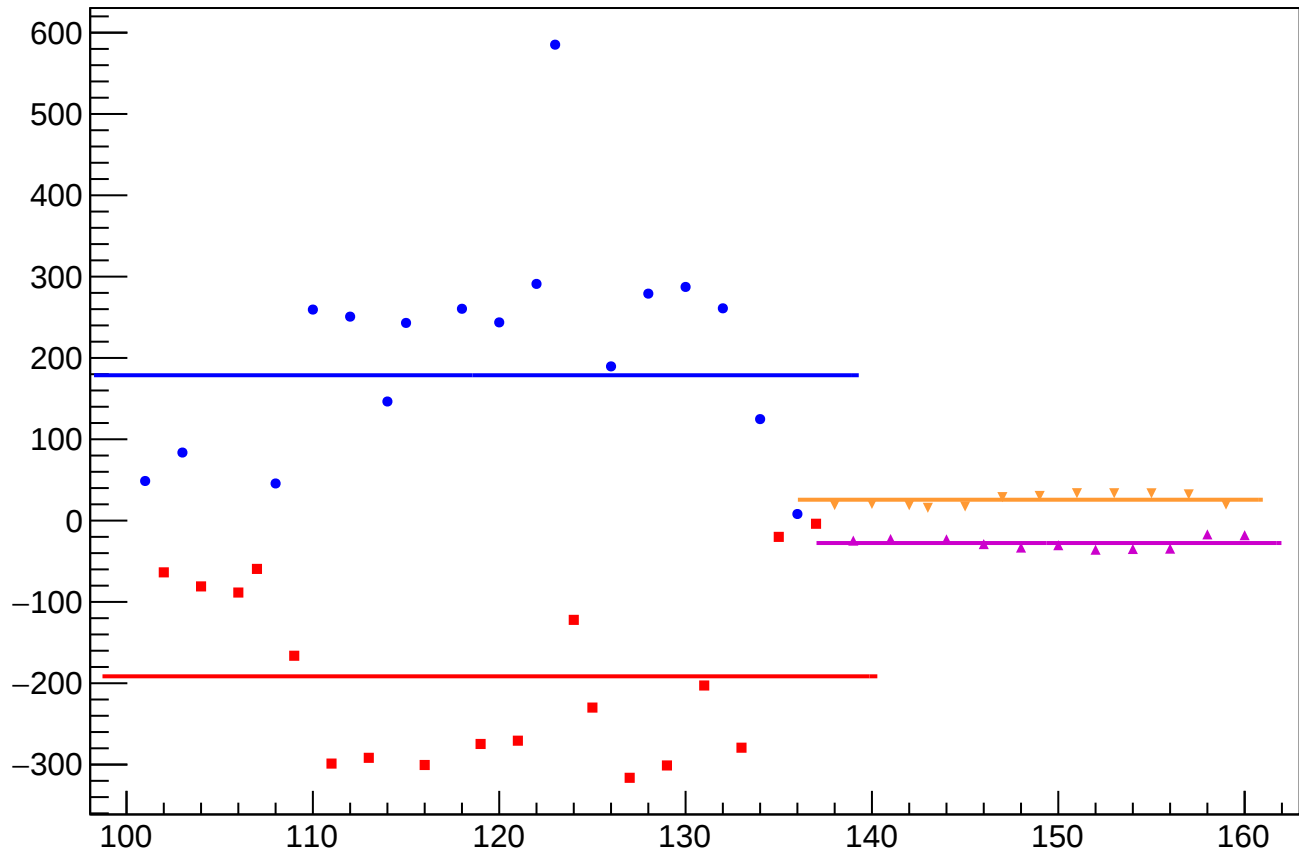
Left: -3.117 +/- 0.000  $\chi^2/\text{NDF}$ : 12111827942565008  
 Right In: 79.722 +/- 0.000  $\chi^2/\text{NDF}$ : 1349884201001122025991797772619087872.0/16  
 Right: -0.141 +/- 0.000  $\chi^2/\text{NDF}$ : 1155638622518713  
 Left Out: 78.356 +/- 0.000  $\chi^2/\text{NDF}$ : 114896120803259231895139298203140096.0/11  
 In: -13.300 +/- 0.000  $\chi^2/\text{NDF}$ : 11906717580621283  
 Right Out: -77.658 +/- 0.000  $\chi^2/\text{NDF}$ : 1483793243606577649503828870787235840.0/17  
 Out: 9.667 +/- 0.000  $\chi^2/\text{NDF}$ : 113398223986127251  
 Left In: -82.494 +/- 0.000  $\chi^2/\text{NDF}$ : 84649934677405665053102578448990208.0/10  
 All: -1.827 +/- 0.000  $\chi^2/\text{NDF}$ : 2367528402707

dit\_sam8\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_4aX\_coil7\_mean vs Slug, Sign Corrected



Right In: 178.734+/-0.000

$\chi^2/\text{NDF}$ : 8494804765562228204327834177712947200.0/16

Left Out: 25.670+/-0.000

$\chi^2/\text{NDF}$ : 43615942339742127541727339141398528.0/11

Right Out: -191.483+/-0.000

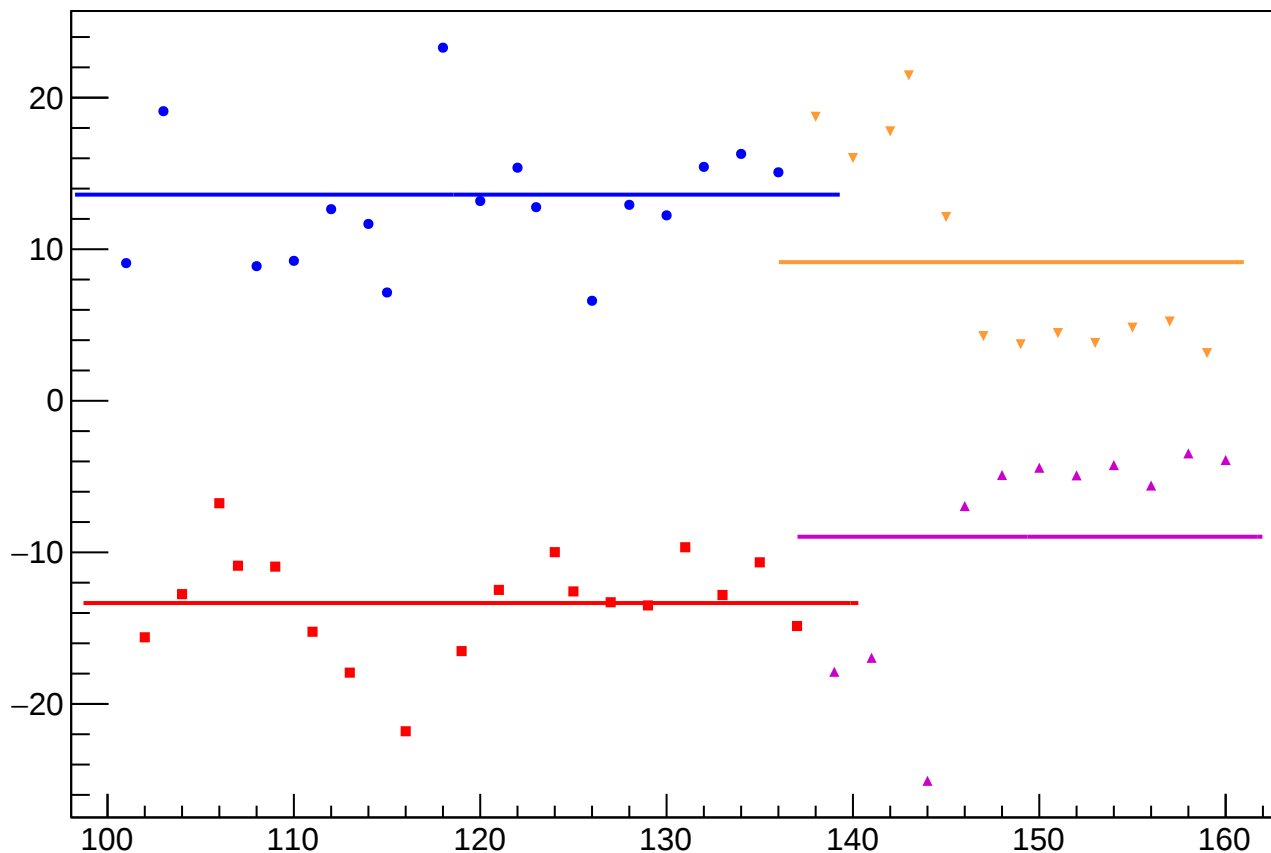
$\chi^2/\text{NDF}$ : 8150461362250913614126902389436841984.0/17

Left In: -27.579+/-0.000

$\chi^2/\text{NDF}$ : 39364281565589269782784177585782784.0/10

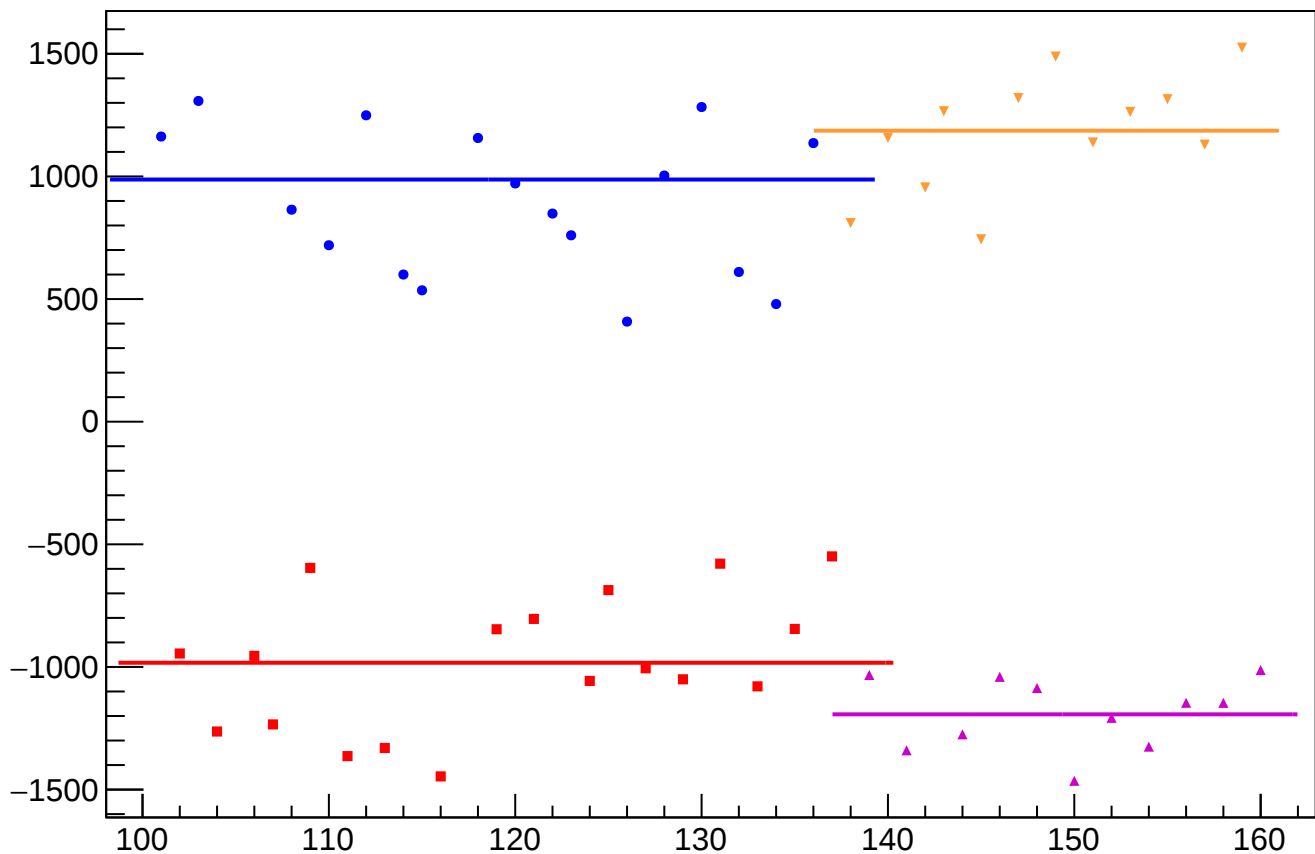
All: -4.696+/-0.000  $\chi^2/\text{NDF}$ : 6635167668479

dit\_4aX\_coil7\_err\_mean vs Slug, Sign Corrected



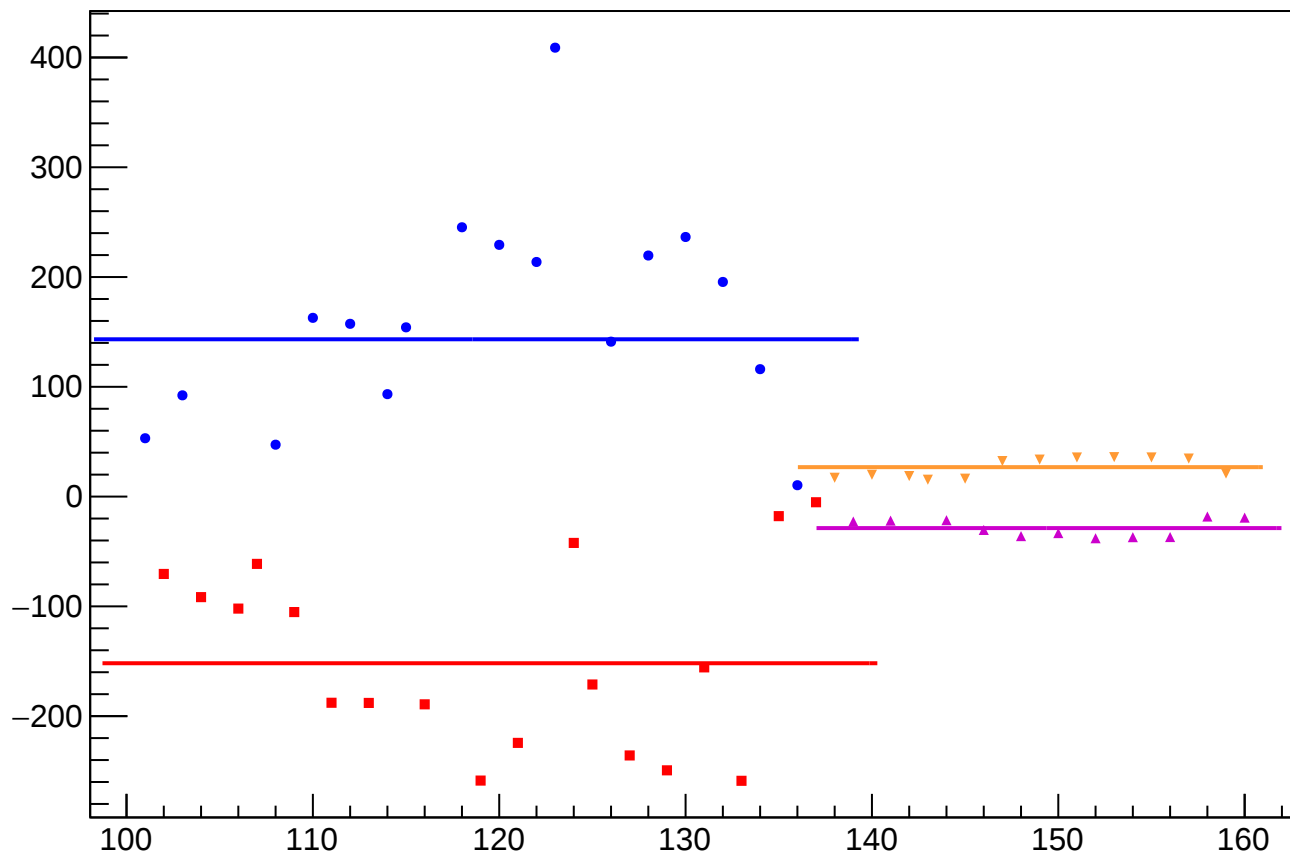
Left:  $-0.027 \pm 0.000$   $\chi^2/\text{NDF}$ : 23786914105617751  
 Right In:  $13.603 \pm 0.000$   $\chi^2/\text{NDF}$ : 12735243270159378009596948914372608.0/16  
 Right:  $-0.071 \pm 0.000$   $\chi^2/\text{NDF}$ : 2752368214719958  
 Left Out:  $9.150 \pm 0.000$   $\chi^2/\text{NDF}$ : 39277872742254074386096302311079936.0/11  
 In:  $0.659 \pm 0.000$   $\chi^2/\text{NDF}$ : 2629356509747329070  
 Right Out:  $-13.343 \pm 0.000$   $\chi^2/\text{NDF}$ : 6808158047357444632184742387646464.0/17  
 Out:  $-0.753 \pm 0.000$   $\chi^2/\text{NDF}$ : 24855008569654434  
 Left In:  $-8.968 \pm 0.000$   $\chi^2/\text{NDF}$ : 47457578467091168331445311669010432.0/10  
 All:  $-0.046 \pm 0.000$   $\chi^2/\text{NDF}$ : 5131074728733

dit\_4aX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



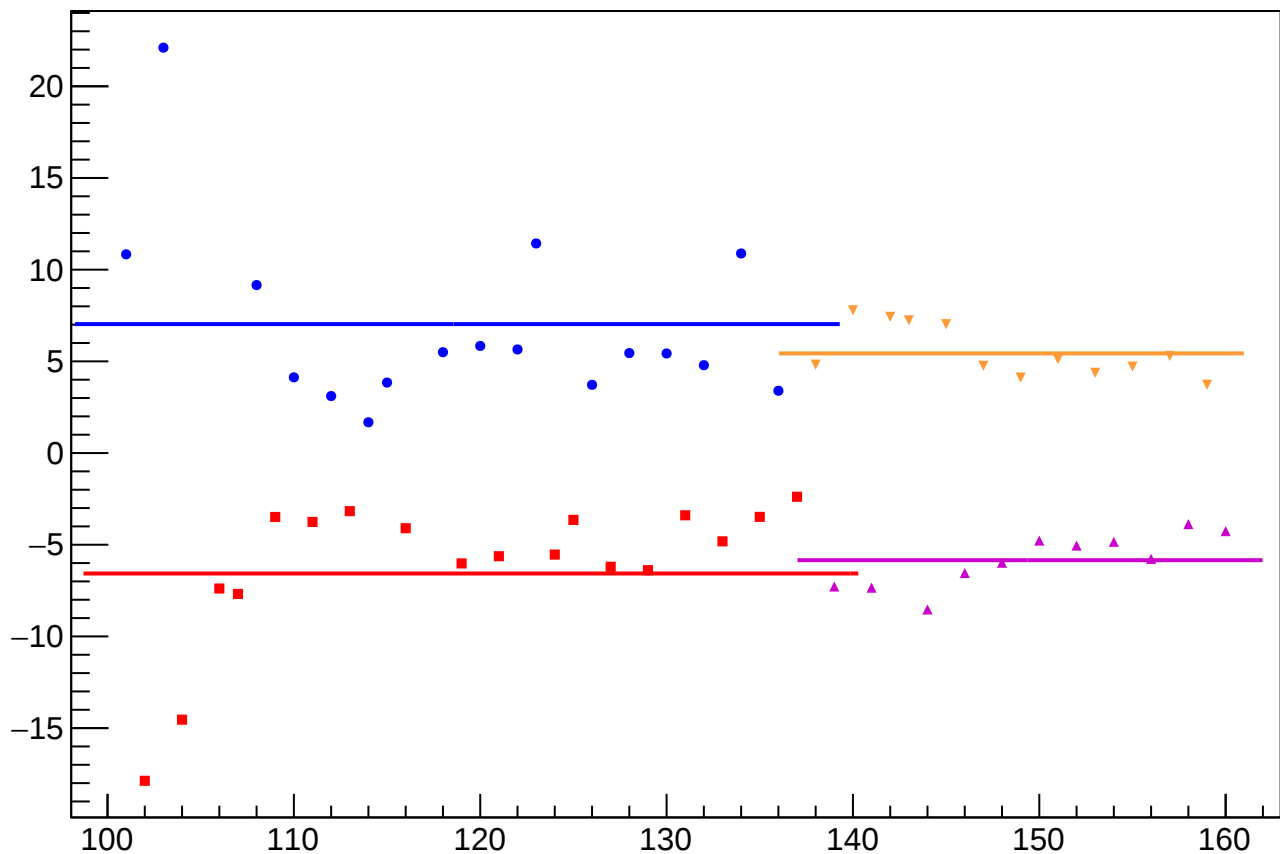
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: -18.822+/-0.000  | $\chi^2/\text{NDF}$ : 2676111842139268 |
| Left Out: 1186.594+/-0.000  | $\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11 | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: -263.084+/-0.000   | $\chi^2/\text{NDF}$ : 1963690344467940 |
| Left In: -1193.230+/-0.000  | $\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10 | Out: 231.459+/-0.000   | $\chi^2/\text{NDF}$ : 1981402088557405 |
|                             |                                                                   | All: -16.040+/-0.000   | $\chi^2/\text{NDF}$ : 414386874879     |

# dit\_4eX\_coil7\_mean vs Slug, Sign Corrected



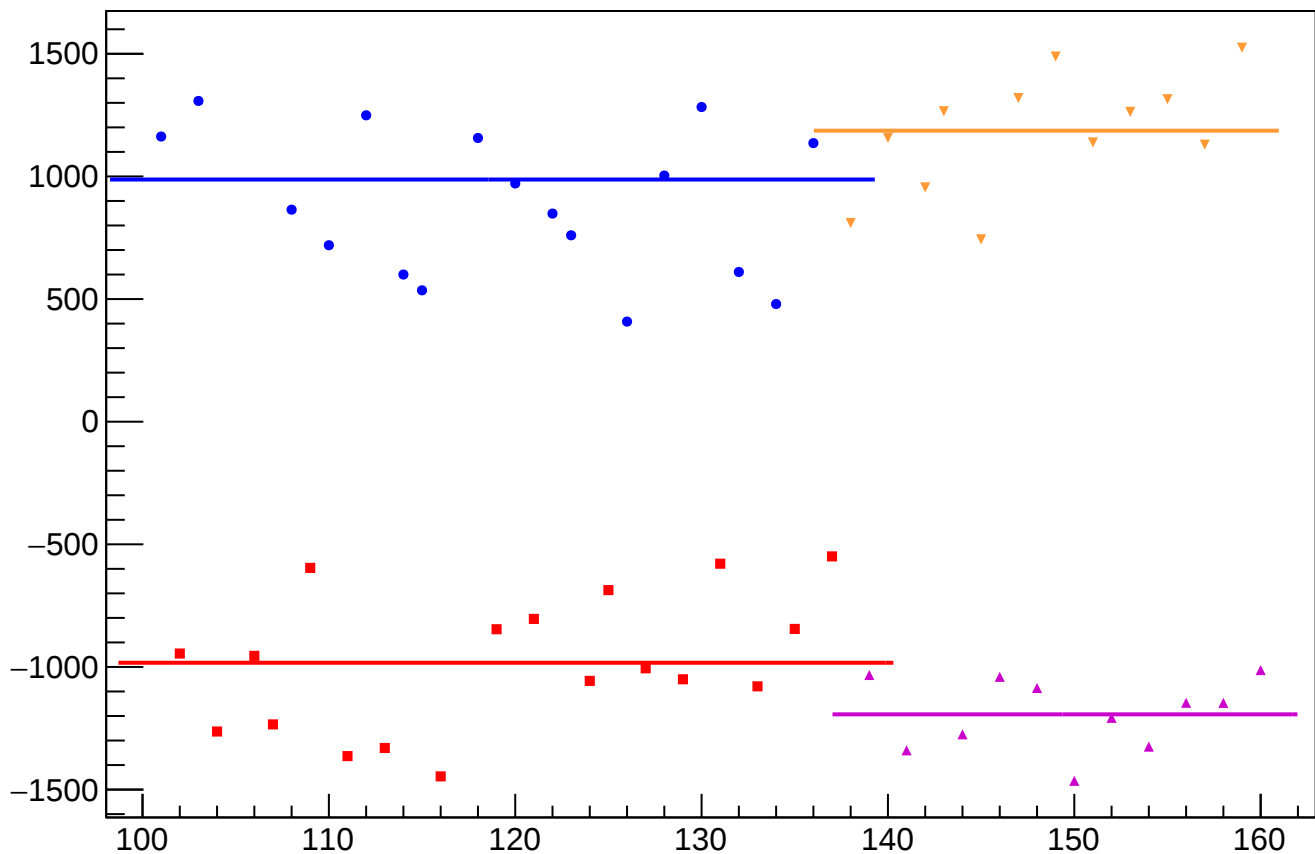
Left:  $-1.307 \pm 0.000$   $\chi^2/\text{NDF}: 15373366738372324$   
 Right In:  $143.291 \pm 0.000$   $\chi^2/\text{NDF}: 4778890435983165530583685149403119616.0/16$   
 Right:  $-6.463 \pm 0.000$   $\chi^2/\text{NDF}: 4010201428427812$   
 Left Out:  $26.816 \pm 0.000$   $\chi^2/\text{NDF}: 64568009381250036040665945578930176.0/11$   
 In:  $44.660 \pm 0.000$   $\chi^2/\text{NDF}: 166056099659481743$   
 Right Out:  $-151.819 \pm 0.000$   $\chi^2/\text{NDF}: 4652479354515348530637943017457057792.0/17$   
 Out:  $-51.832 \pm 0.000$   $\chi^2/\text{NDF}: 1748773980809143$   
 Left In:  $-28.706 \pm 0.000$   $\chi^2/\text{NDF}: 53446645713086882216161894618628096.0/10$   
 All:  $-3.542 \pm 0.000$   $\chi^2/\text{NDF}: 4166057435193$

dit\_4eX\_coil7\_err\_mean vs Slug, Sign Corrected



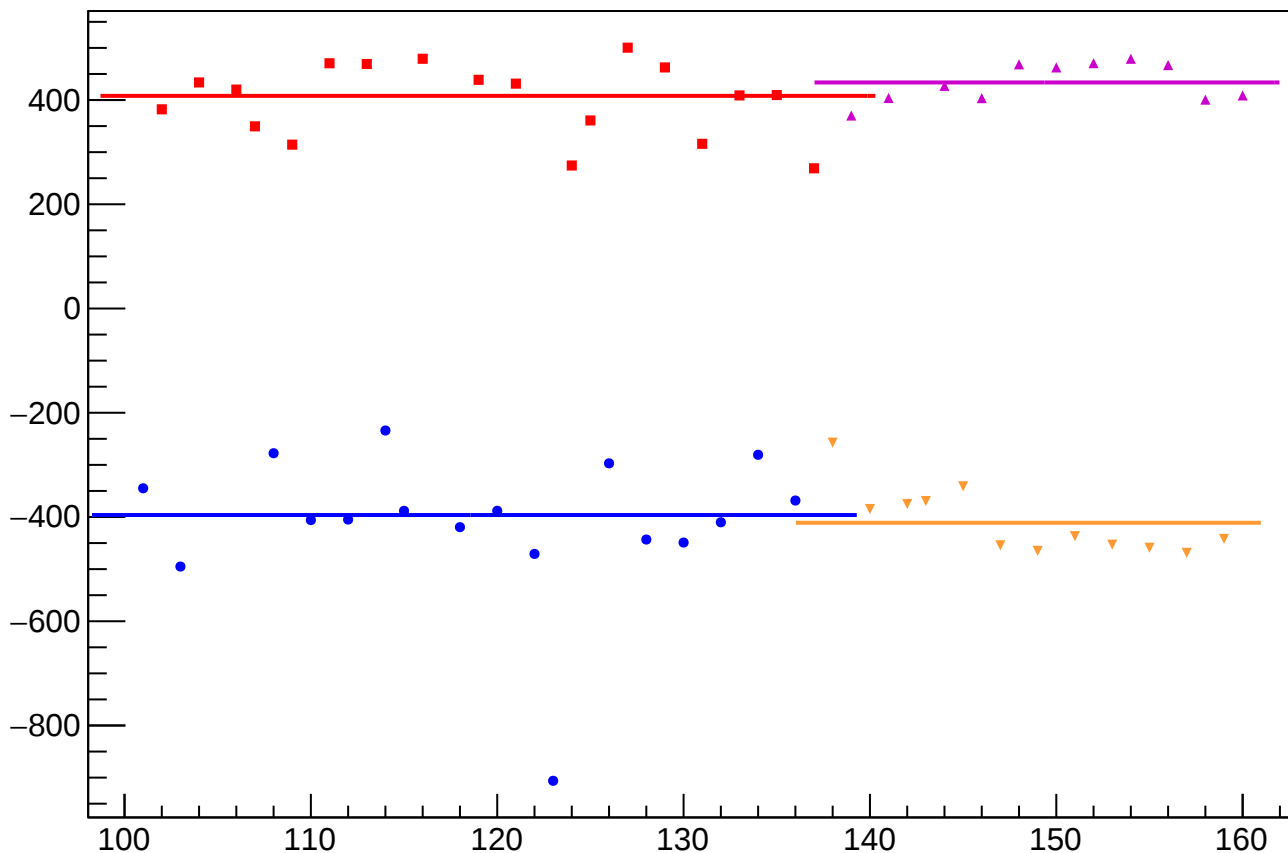
Right In: 7.031+/-0.000  $\chi^2/\text{NDF}$ : 18686972393169306014765519518826496.0/16  
 Left Out: 5.434+/-0.000  $\chi^2/\text{NDF}$ : 1641961615493557983490036107051008.0/11  
 Right Out: -6.568+/-0.000  $\chi^2/\text{NDF}$ : 13908005278630821419370553666437120.0/17  
 Left In: -5.842+/-0.000  $\chi^2/\text{NDF}$ : 1812226966420315112479835300036608.0/10  
 All: -0.101+/-0.000  $\chi^2/\text{NDF}$ : 1598467643191

dit\_4eX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



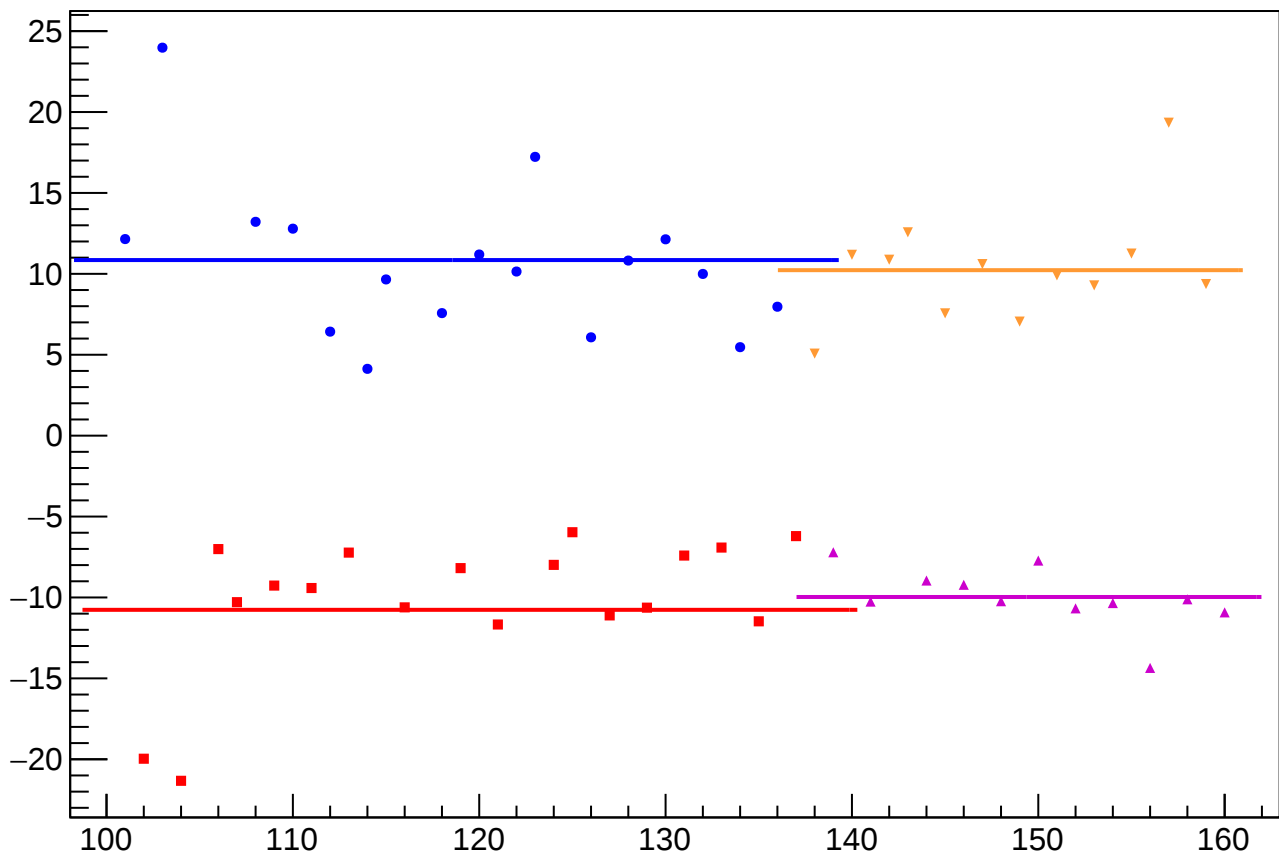
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: -18.822+/-0.000  | $\chi^2/\text{NDF}$ : 2676111842139268 |
| Left Out: 1186.594+/-0.000  | $\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11 | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: -263.084+/-0.000   | $\chi^2/\text{NDF}$ : 1963690344467940 |
| Left In: -1193.230+/-0.000  | $\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10 | Out: 231.459+/-0.000   | $\chi^2/\text{NDF}$ : 1981402088557405 |
|                             |                                                                   | All: -16.040+/-0.000   | $\chi^2/\text{NDF}$ : 414386874879     |

# dit\_11X12X\_coil7\_mean vs Slug, Sign Corrected



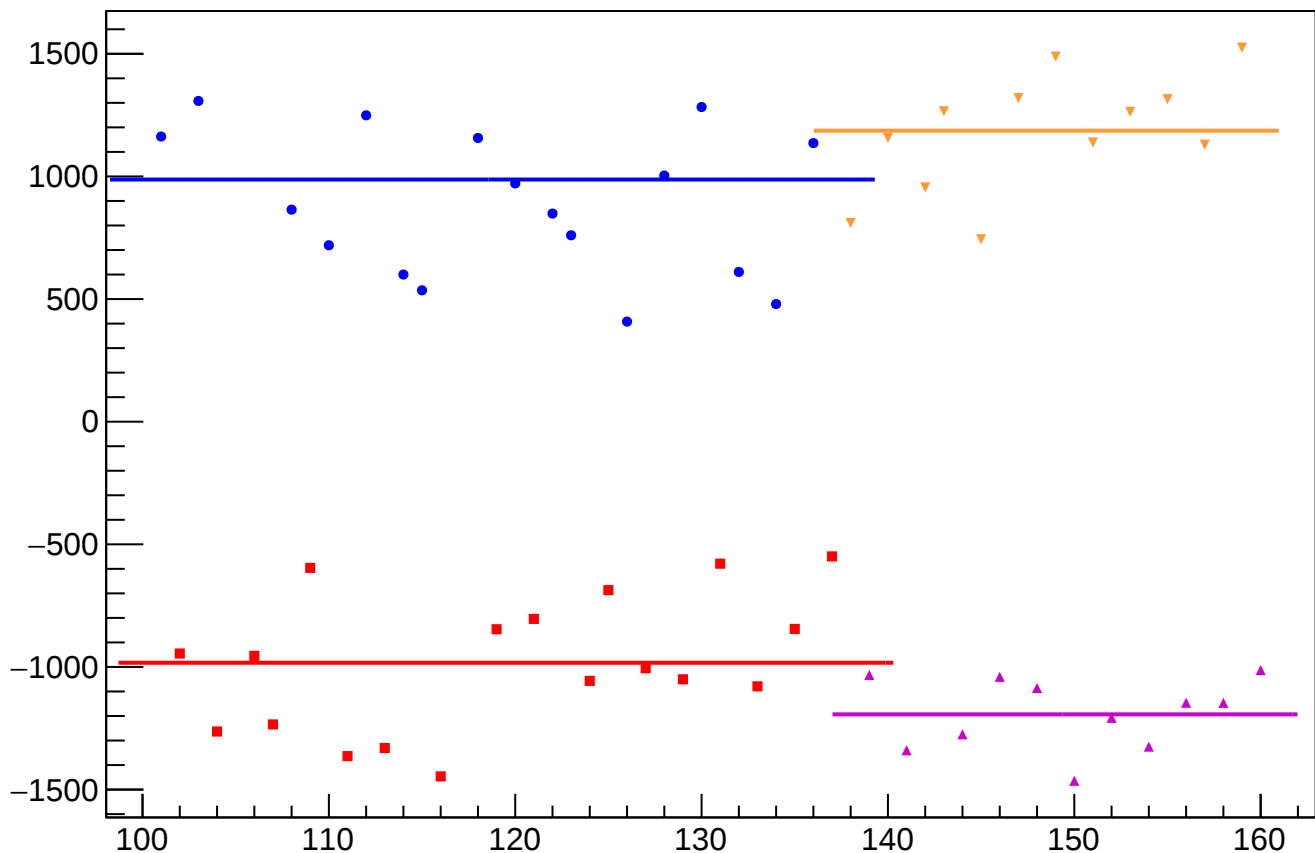
Right In:  $-396.205 \pm 0.000$   $\chi^2/\text{NDF}: 3915339787327324310697642459645607936.0/16$   
 Left Out:  $-411.042 \pm 0.000$   $\chi^2/\text{NDF}: 3555989077784945680272383641089212416.0/11$   
 Right Out:  $408.004 \pm 0.000$   $\chi^2/\text{NDF}: 2700413725595197389596215208912617472.0/17$   
 Left In:  $433.711 \pm 0.000$   $\chi^2/\text{NDF}: 1189526132627930234621779098826964992.0/10$   
 All:  $14.695 \pm 0.000$   $\chi^2/\text{NDF}: 5677098484078$

dit\_11X12X\_coil7\_err\_mean vs Slug, Sign Corrected



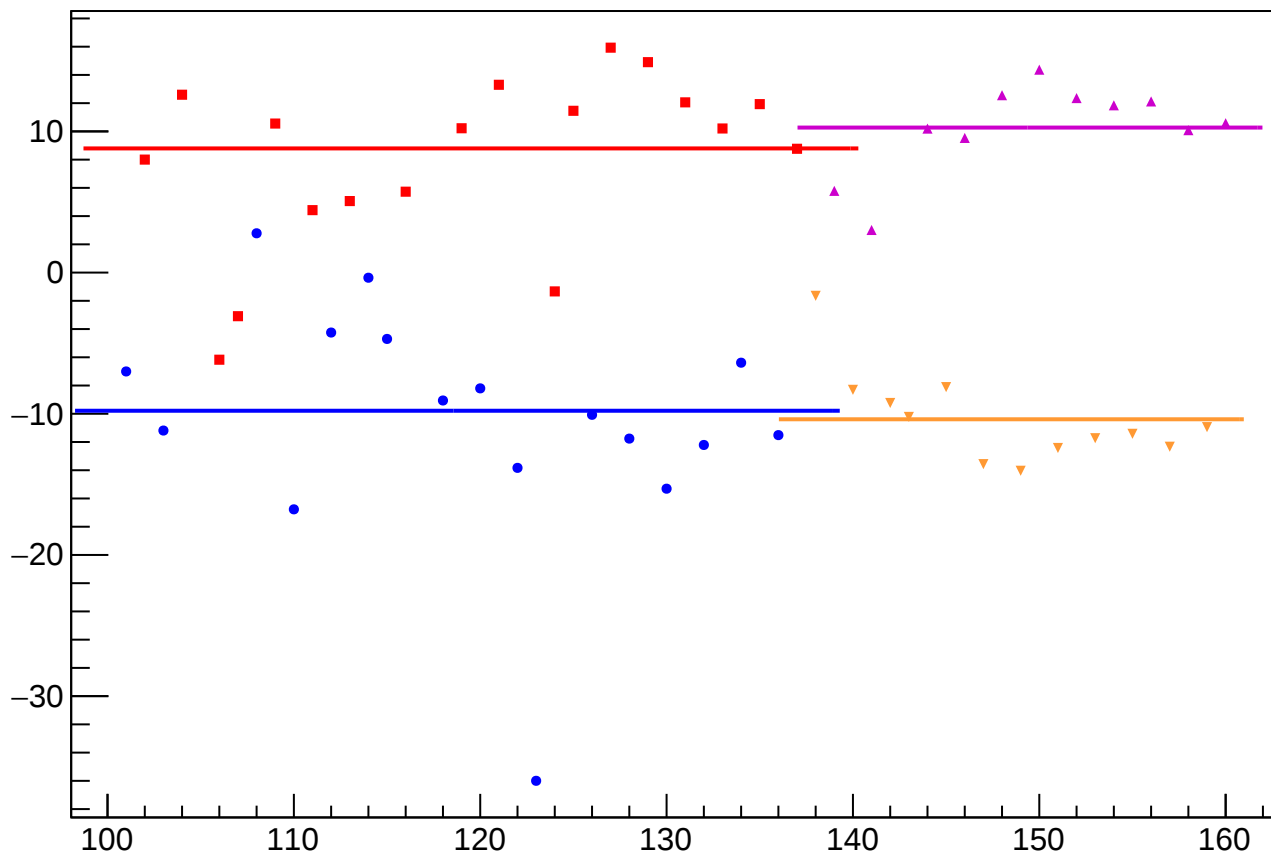
Right In:  $10.851 \pm 0.000$   $\chi^2/\text{NDF}: 15284459899452545966128799384862720.0/16$   
 Left Out:  $10.227 \pm 0.000$   $\chi^2/\text{NDF}: 10321587584551104331954948537319424.0/11$   
 Right Out:  $-10.764 \pm 0.000$   $\chi^2/\text{NDF}: 14575858748491423837639288498946048.0/17$   
 Left In:  $-9.971 \pm 0.000$   $\chi^2/\text{NDF}: 2900670082842124382118820523802624.0/10$   
 All:  $-0.053 \pm 0.000$   $\chi^2/\text{NDF}: 3954613272639$

dit\_11X12X\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: -18.822+/-0.000  | $\chi^2/\text{NDF}$ : 2676111842139268 |
| Left Out: 1186.594+/-0.000  | $\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11 | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: -263.084+/-0.000   | $\chi^2/\text{NDF}$ : 1963690344467940 |
| Left In: -1193.230+/-0.000  | $\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10 | Out: 231.459+/-0.000   | $\chi^2/\text{NDF}$ : 1981402088557405 |
|                             |                                                                   | All: -16.040+/-0.000   | $\chi^2/\text{NDF}$ : 414386874879     |

dit\_4aY\_coil7\_mean vs Slug, Sign Corrected



Right In: -9.786+/-0.000

$\chi^2/\text{NDF}$ : 17296683010620060540445571791454208.0/16

Left Out: -10.390+/-0.000

$\chi^2/\text{NDF}$ : 9553348608714345843286370808758272.0/11

Right Out: 8.794+/-0.000

$\chi^2/\text{NDF}$ : 21979472889395409230974985175040000.0/17

Left In: 10.271+/-0.000

$\chi^2/\text{NDF}$ : 9001548873812579955640597255028736.0/10

Left: 0.075+/-0.000  $\chi^2/\text{NDF}$ : 215101404895769009

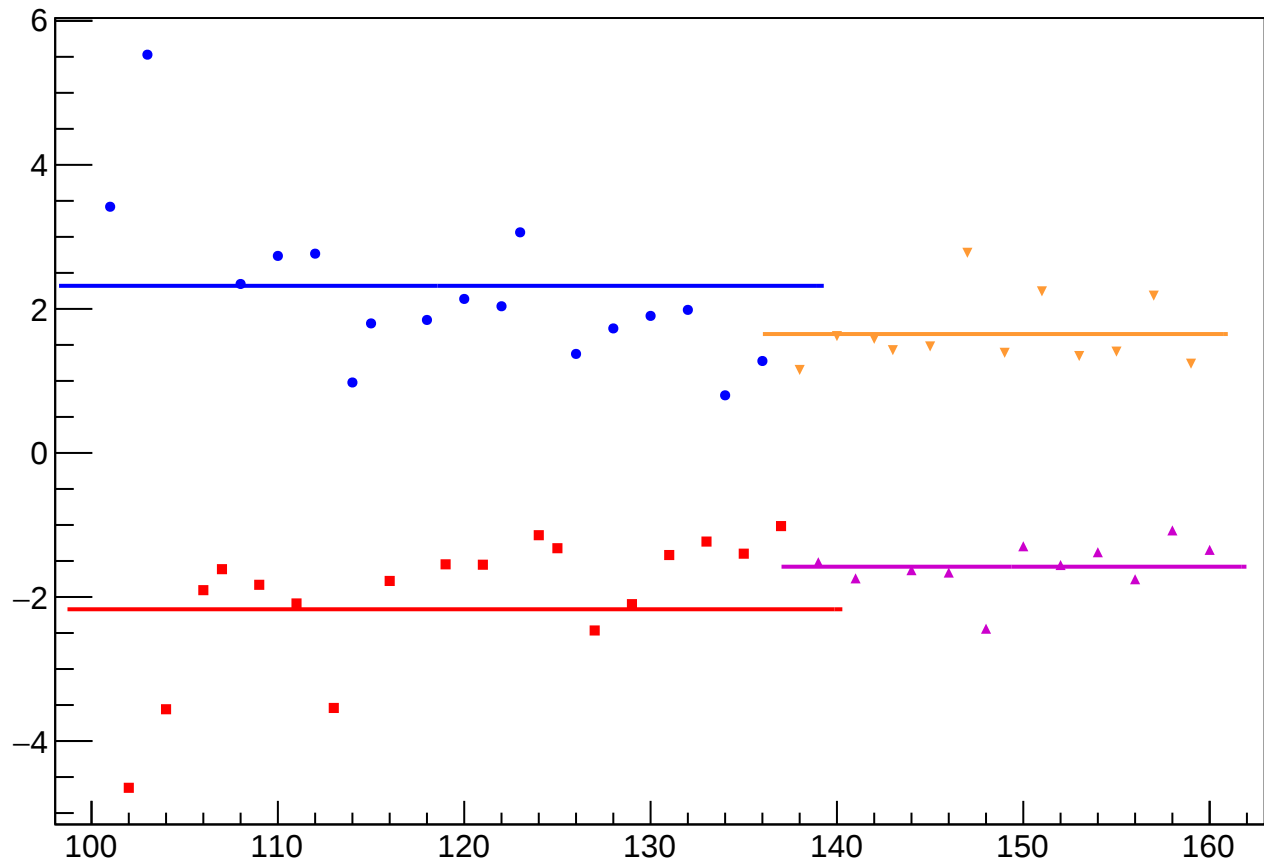
Right: -0.358+/-0.000  $\chi^2/\text{NDF}$ : 1608503325720223

In: 1.716+/-0.000  $\chi^2/\text{NDF}$ : 1863923617387902465

Out: -1.944+/-0.000  $\chi^2/\text{NDF}$ : 17882361824620851

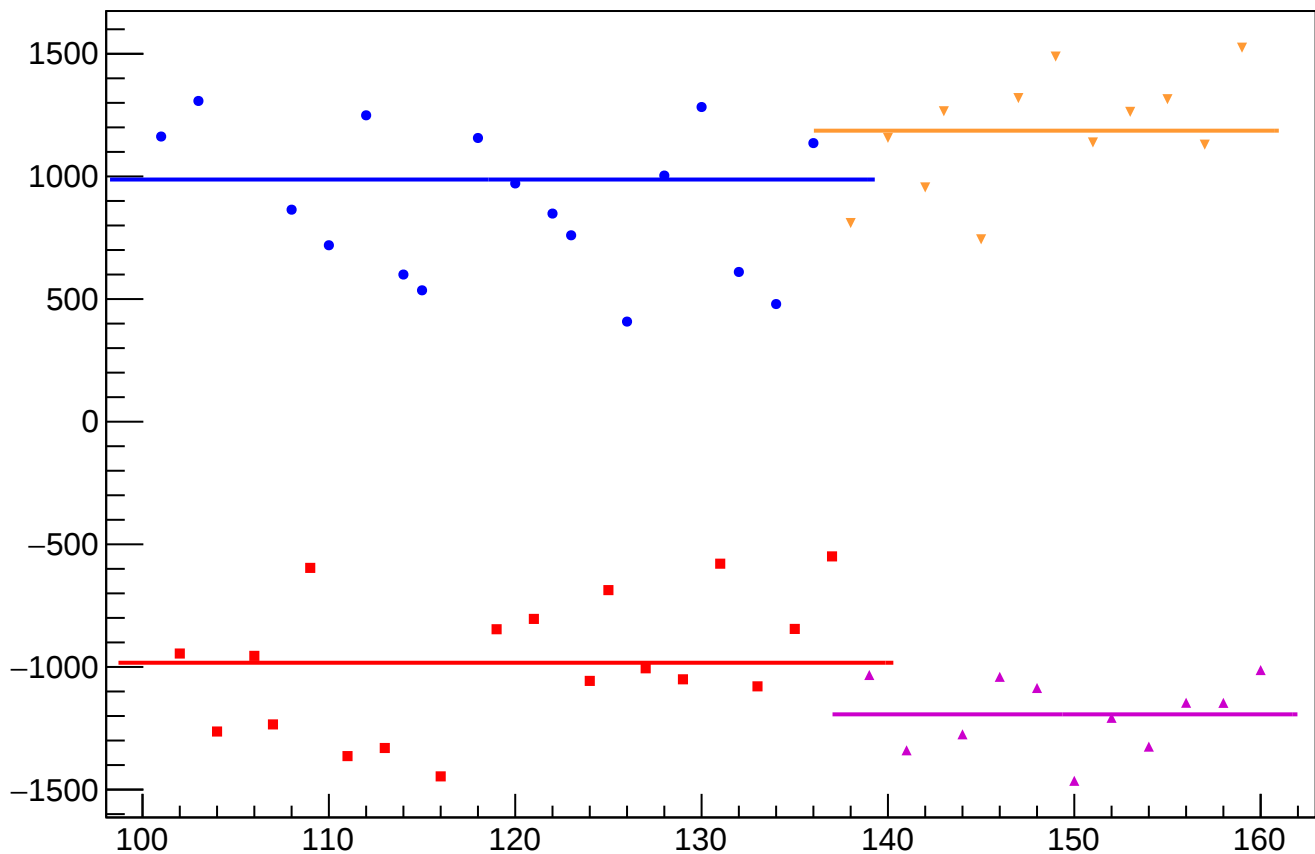
All: -0.113+/-0.000  $\chi^2/\text{NDF}$ : 3761009854551

dit\_4aY\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $2.320 \pm 0.000$   $\chi^2/\text{NDF}: 951785069007432203128626661556224.0/16$   
 Left Out:  $1.651 \pm 0.000$   $\chi^2/\text{NDF}: 204626857159139136985355773804544.0/11$   
 Right Out:  $-2.171 \pm 0.000$   $\chi^2/\text{NDF}: 756432905902484239494035607126016.0/17$   
 Left In:  $-1.580 \pm 0.000$   $\chi^2/\text{NDF}: 104047648288543214499863879221248.0/10$   
 All:  $0.026 \pm 0.000$   $\chi^2/\text{NDF}: 13925885170207$

dit\_4aY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

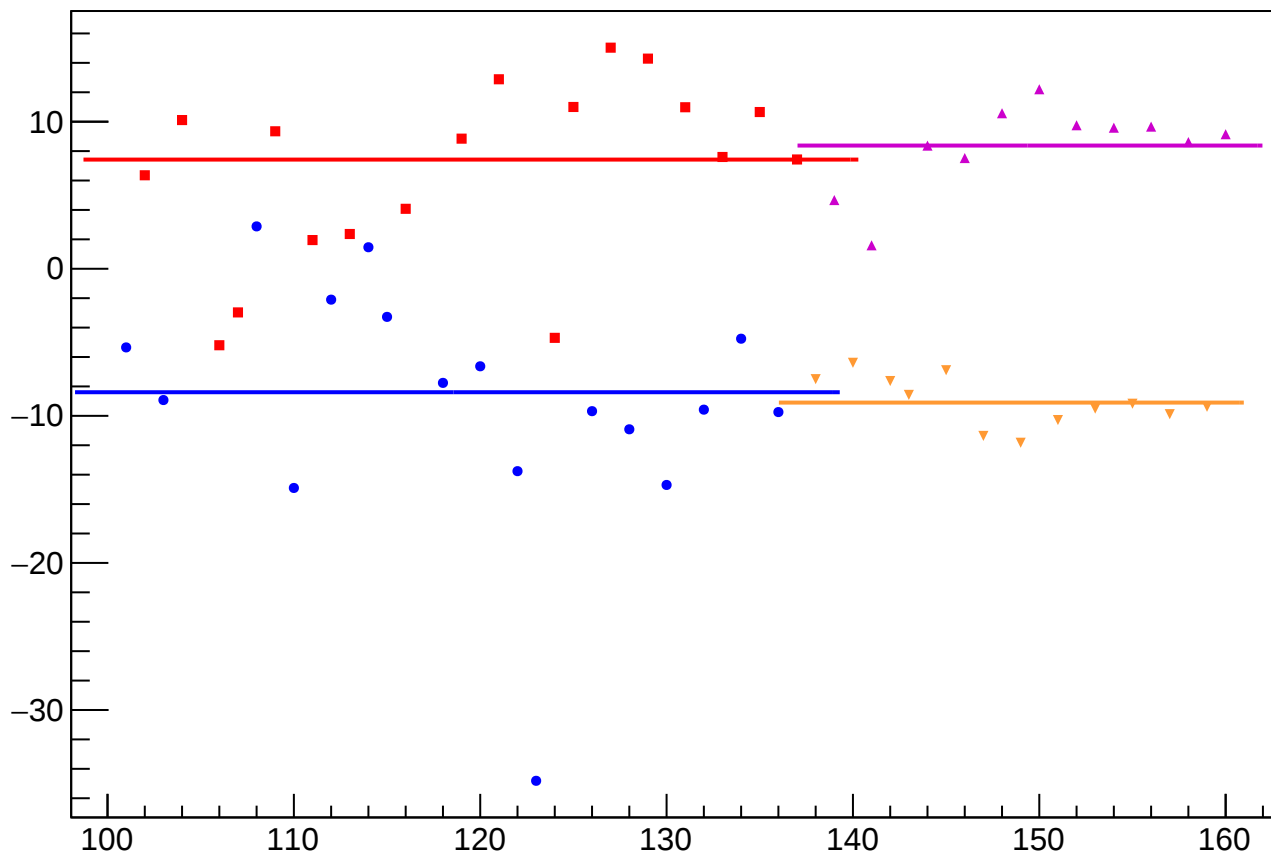
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_4eY\_coil7\_mean vs Slug, Sign Corrected



Right In: -8.394+/-0.000

$\chi^2/\text{NDF}$ : 17454293749905596935063382469378048.0/16

Left Out: -9.098+/-0.000

$\chi^2/\text{NDF}$ : 2495166400033821389722475105878016.0/11

Right Out: 7.423+/-0.000

$\chi^2/\text{NDF}$ : 21448737498509381182656193641840640.0/17

Left In: 8.377+/-0.000

$\chi^2/\text{NDF}$ : 7305049621104210689876244459159552.0/10

Left: -0.247+/-0.000  $\chi^2/\text{NDF}$ : 15040839367767383

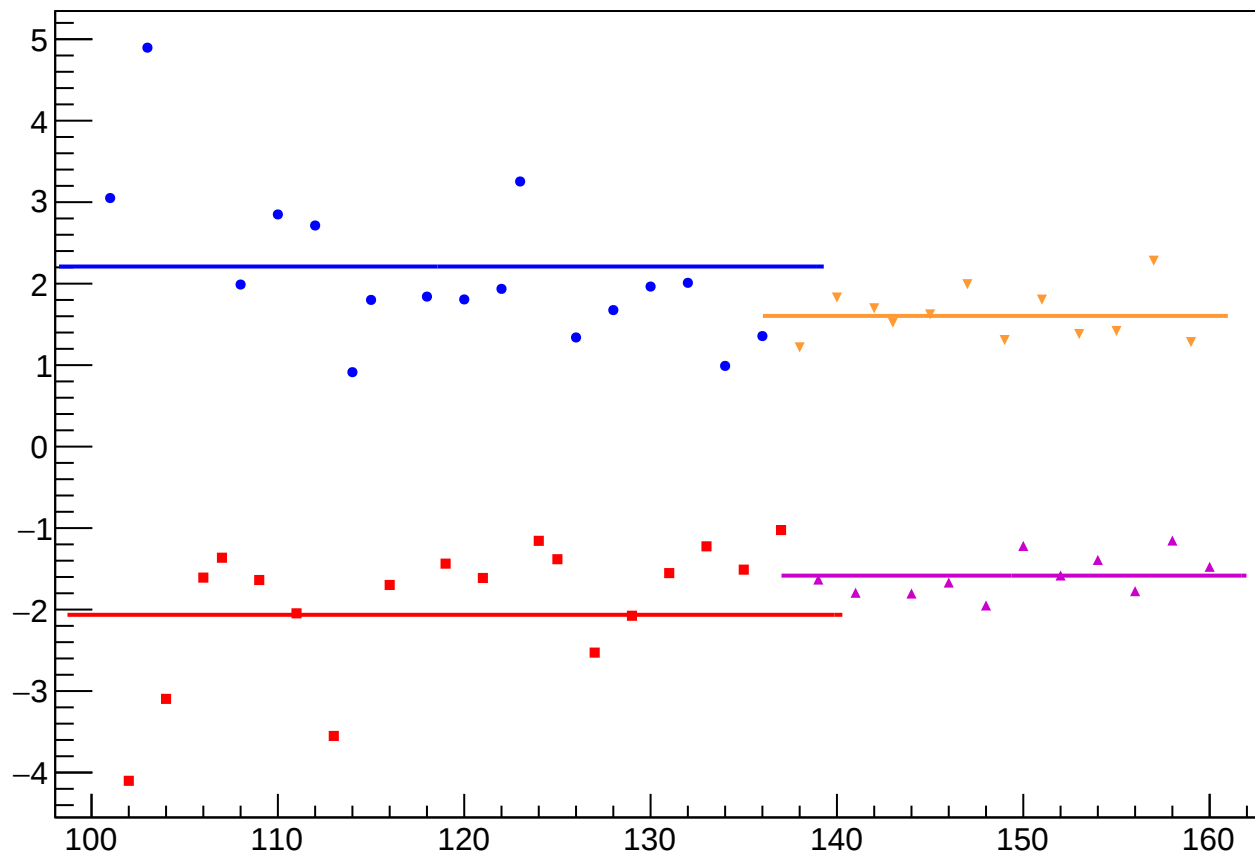
Right: -0.368+/-0.000  $\chi^2/\text{NDF}$ : 1270158104740330

In: 1.223+/-0.000  $\chi^2/\text{NDF}$ : 1367022219135136957

Out: -1.824+/-0.000  $\chi^2/\text{NDF}$ : 13318531128418368

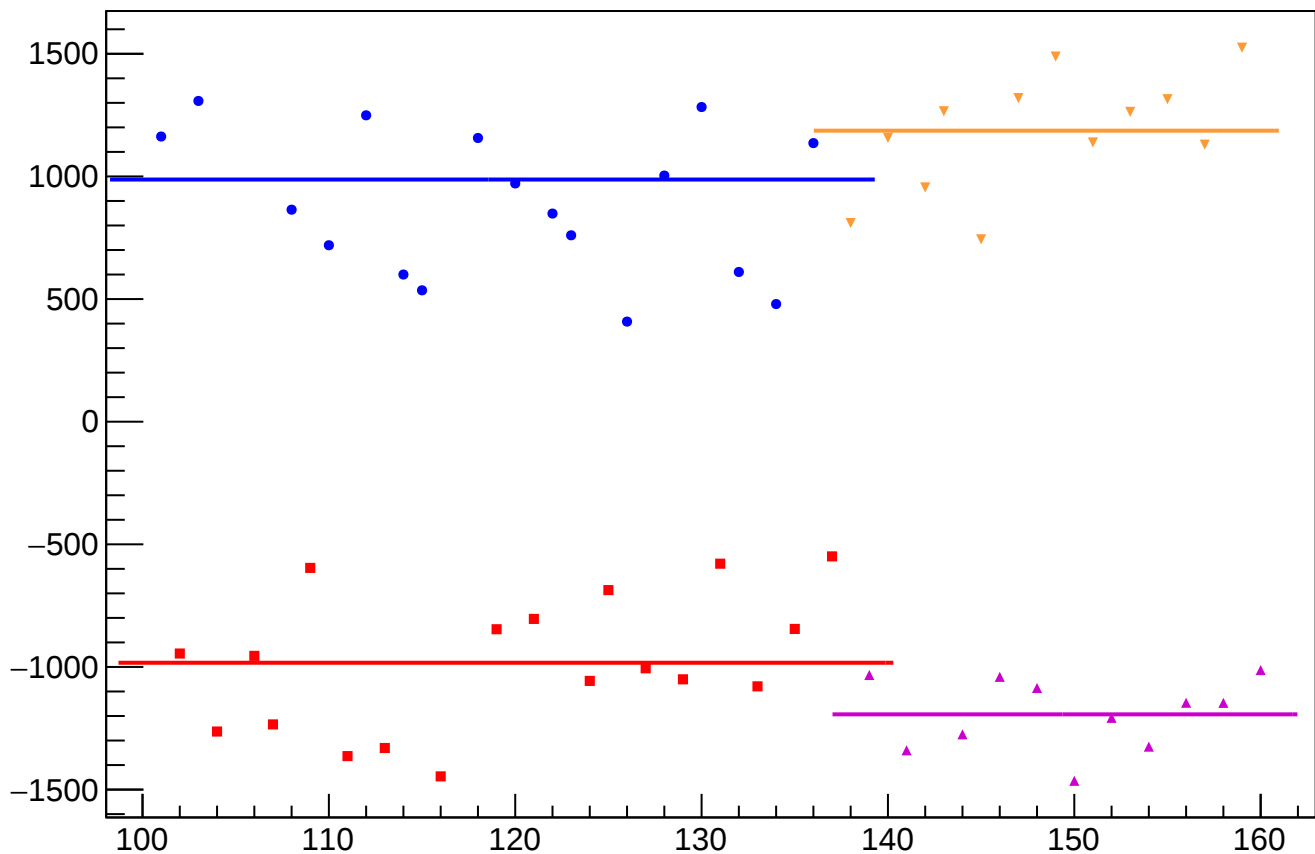
All: -0.299+/-0.000  $\chi^2/\text{NDF}$ : 2774358772203

dit\_4eY\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $2.210 \pm 0.000$   $\chi^2/\text{NDF}: 685219894303103753186103173054464.0/16$   
 Left Out:  $1.604 \pm 0.000$   $\chi^2/\text{NDF}: 88134442876960203086974867734528.0/11$   
 Right Out:  $-2.064 \pm 0.000$   $\chi^2/\text{NDF}: 574315722841914805756407412948992.0/17$   
 Left In:  $-1.583 \pm 0.000$   $\chi^2/\text{NDF}: 54376045146817744012212281802752.0/10$   
 All:  $0.012 \pm 0.000$   $\chi^2/\text{NDF}: 12516655106587$

dit\_4eY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388 +/- 0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594 +/- 0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831 +/- 0.000

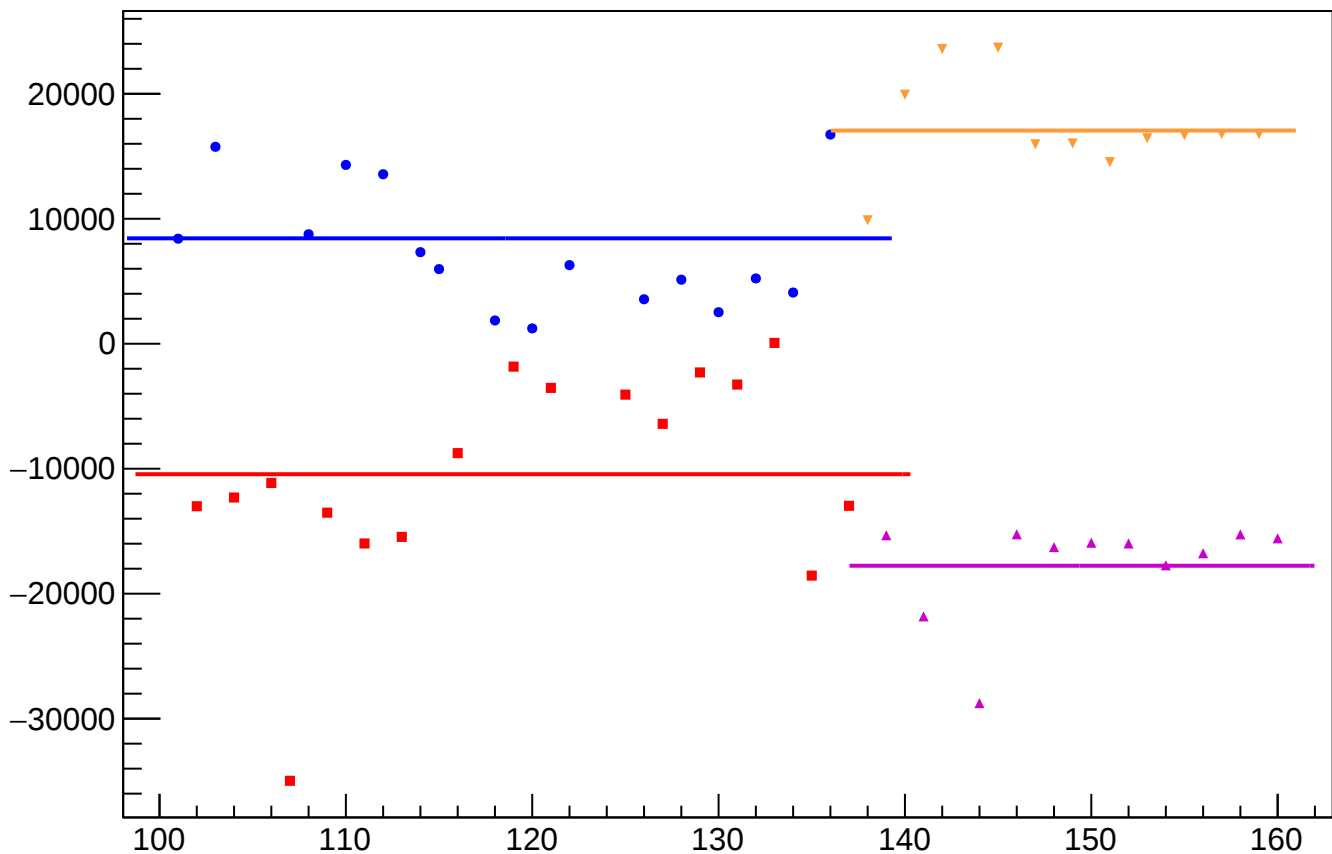
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230 +/- 0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

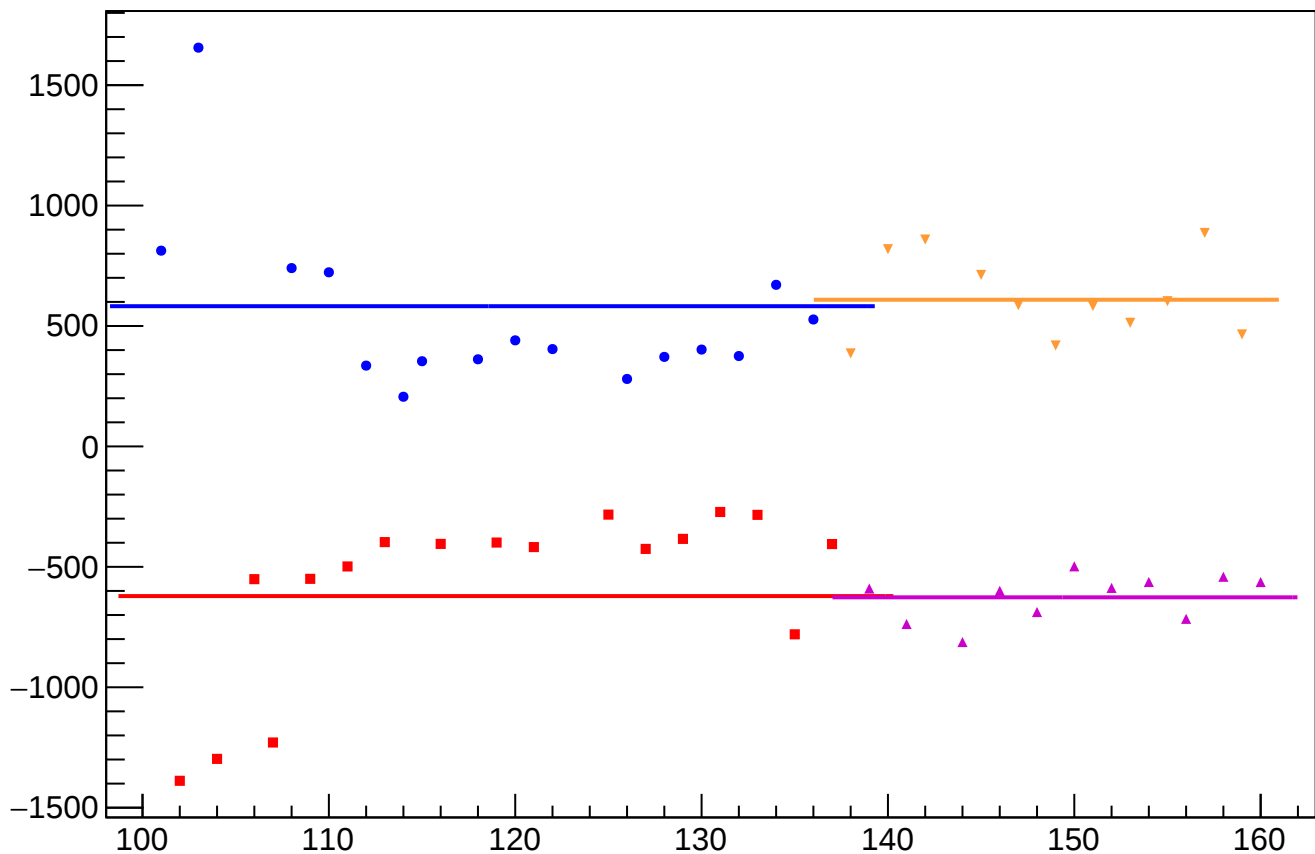
All: -16.040 +/- 0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_usl\_coil7\_mean vs Slug, Sign Corrected



Right In: 8433.891+/-0.000  $\chi^2/\text{NDF}$ : 20327422028204985369763408215621299601408.0/15  
 Left Out: 17058.273+/-0.000  $\chi^2/\text{NDF}$ : 10811611646396396135044758761220754898944.0/10  
 Right Out: -10440.704+/-0.000  $\chi^2/\text{NDF}$ : 45868144044016746065453678570140629729280.0/16  
 Left In: -17763.145+/-0.000  $\chi^2/\text{NDF}$ : 14921716045152593676189631342379599396864.0/10  
 All: -1171.667+/-0.000  $\chi^2/\text{NDF}$ : 7524754338

dit\_usl\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 582.194+/-0.000

$\chi^2/\text{NDF}$ : 92652521491388929844313077938841976832.0/15

Left Out: 609.049+/-0.000

$\chi^2/\text{NDF}$ : 22435846570397404635858963221446656000.0/10

Right Out: -621.413+/-0.000

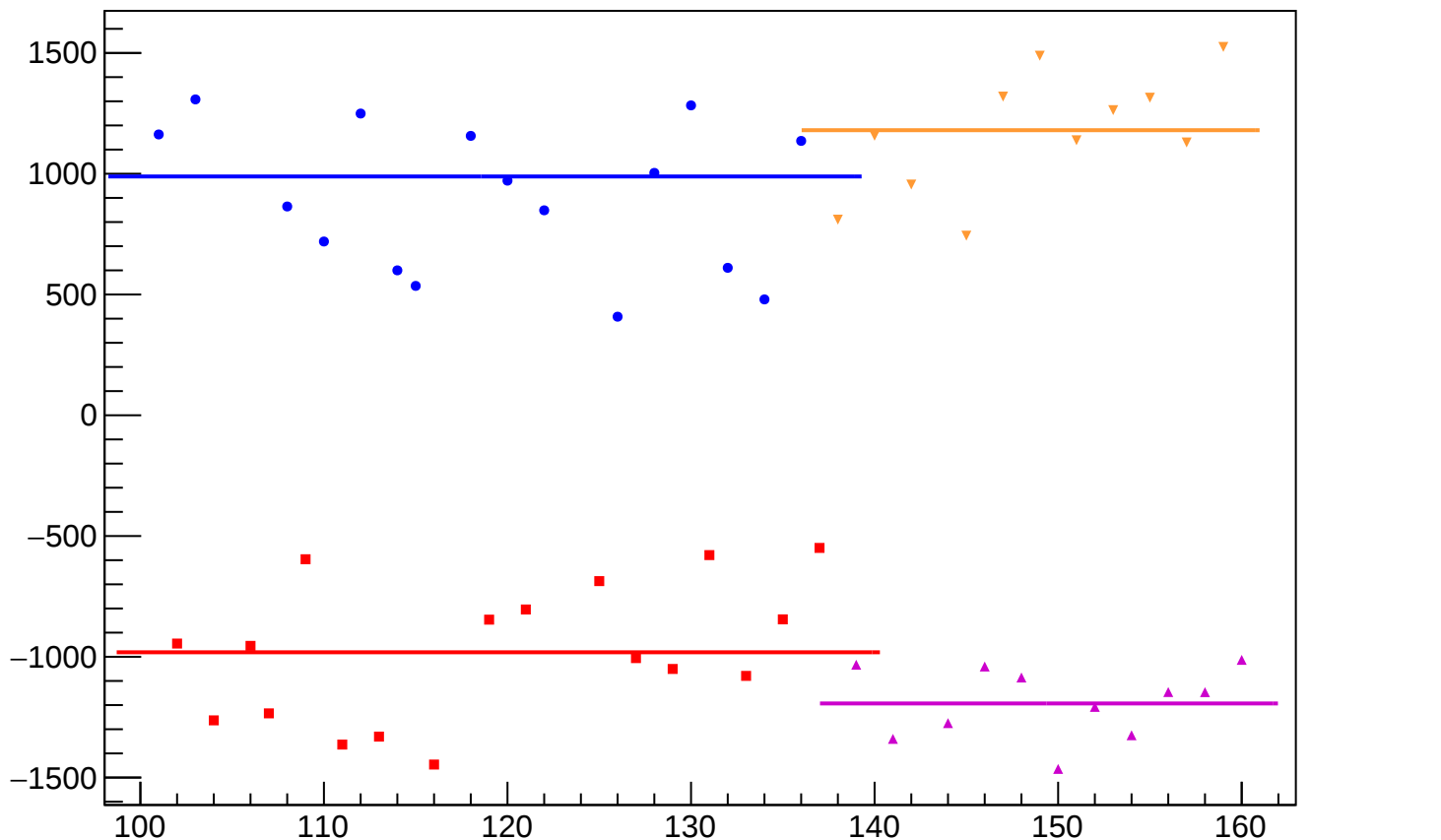
$\chi^2/\text{NDF}$ : 99044900314697449740386824149731901440.0/16

Left In: -626.604+/-0.000

$\chi^2/\text{NDF}$ : 8153830016512989620574087402930307072.0/10

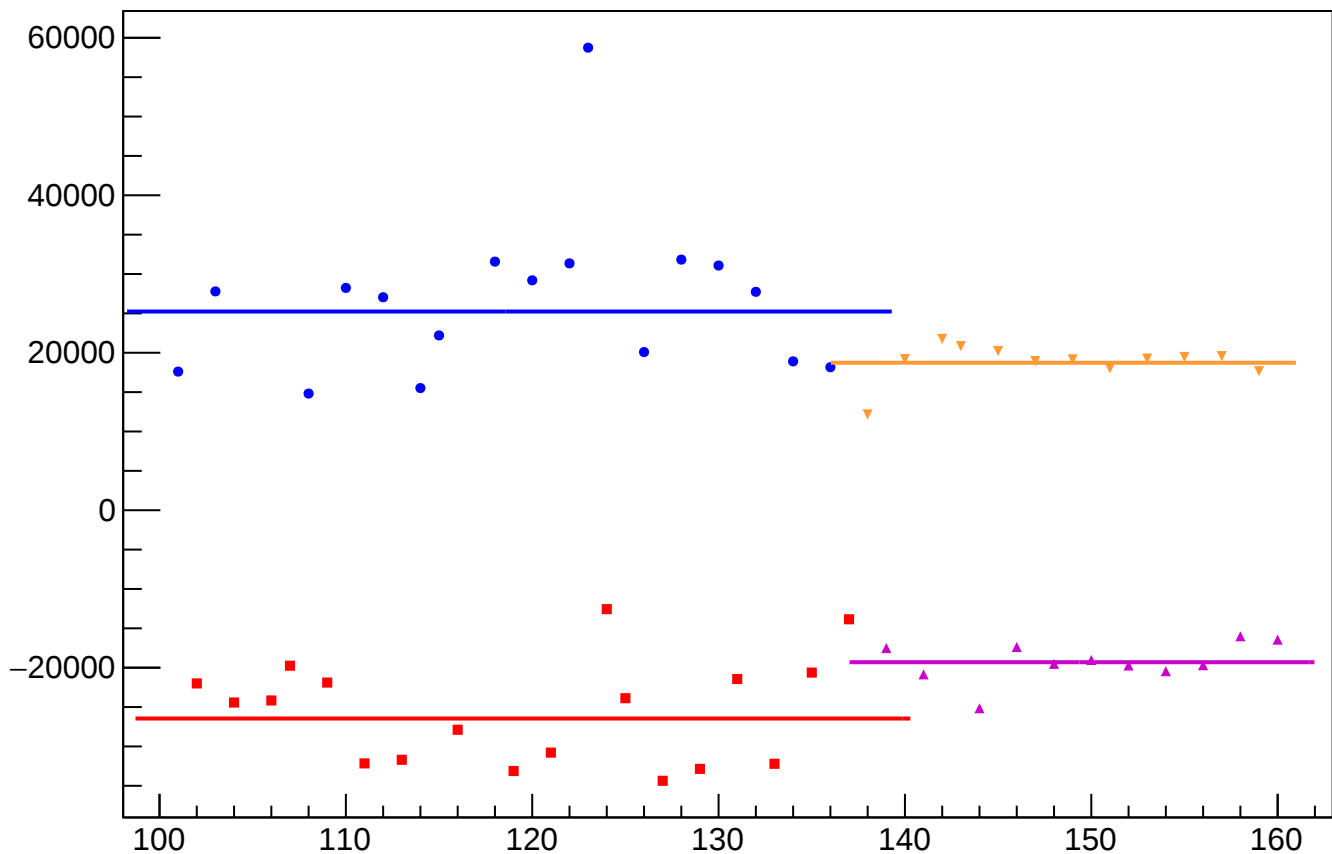
Left: -40.452+/-0.000  $\chi^2/\text{NDF}$ : 7063435866504061  
 Right: -24.369+/-0.000  $\chi^2/\text{NDF}$ : 695441277498736  
 In: -112.697+/-0.000  $\chi^2/\text{NDF}$ : 6803947133451579  
 Out: 50.038+/-0.000  $\chi^2/\text{NDF}$ : 70064415971777849  
 All: -33.386+/-0.000  $\chi^2/\text{NDF}$ : 140198658530

dit\_usl\_coil7\_Ndata\_mean vs Slug, Sign Corrected



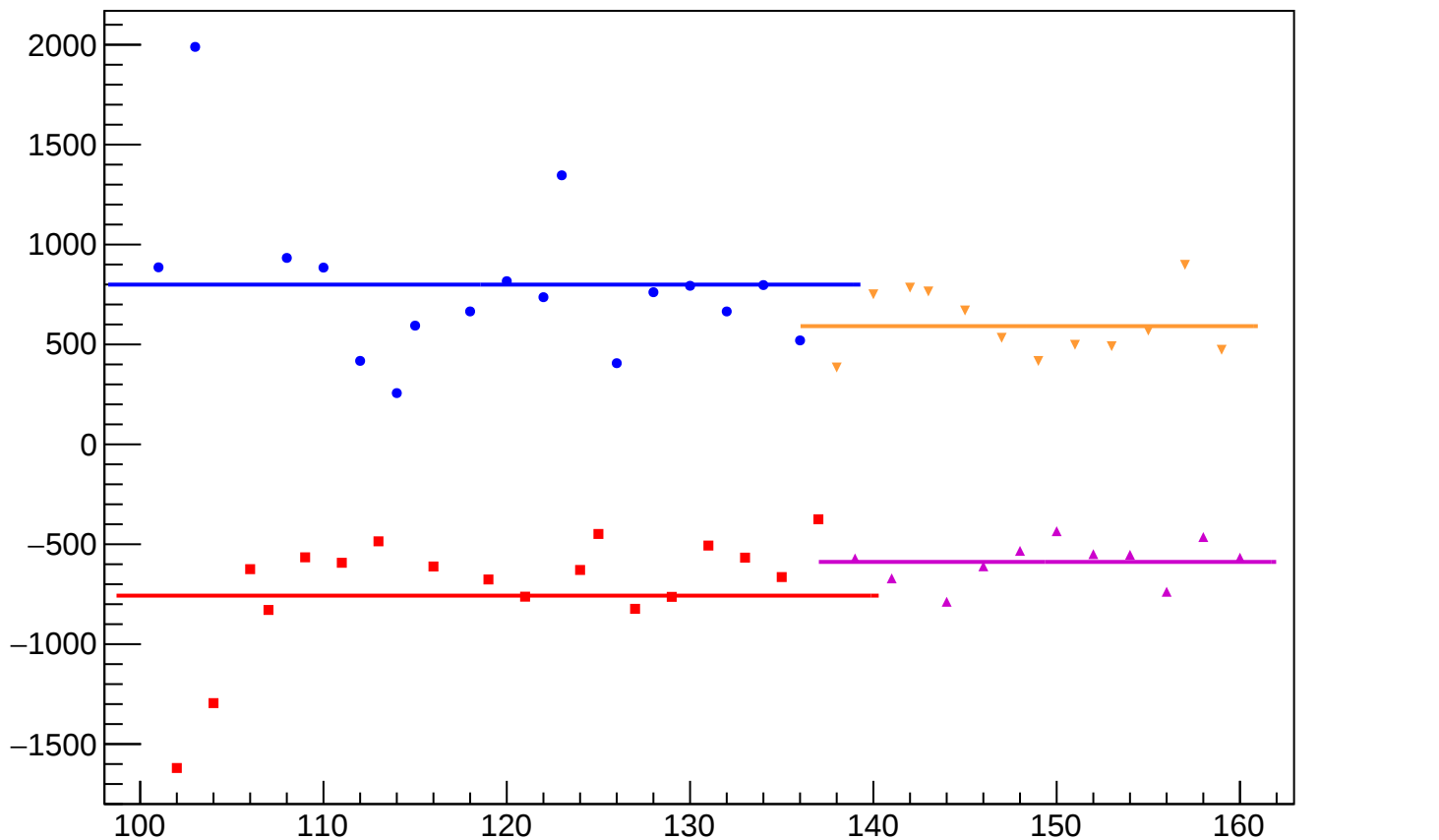
Right In:  $988.706 \pm 0.000$   $\chi^2/\text{NDF}: 52363367379197496459026096064200441856.0/15$   
 Left Out:  $1180.302 \pm 0.000$   $\chi^2/\text{NDF}: 49311054965426356670958856612989632512.0/10$   
 Right Out:  $-981.352 \pm 0.000$   $\chi^2/\text{NDF}: 48028000110939353209143459445919973376.0/16$   
 Left In:  $-1193.230 \pm 0.000$   $\chi^2/\text{NDF}: 18719715189237327364686937904868491264.0/10$   
 All:  $-39.542 \pm 0.000$   $\chi^2/\text{NDF}: 401447824539$

# dit\_usr\_coil7\_mean vs Slug, Sign Corrected



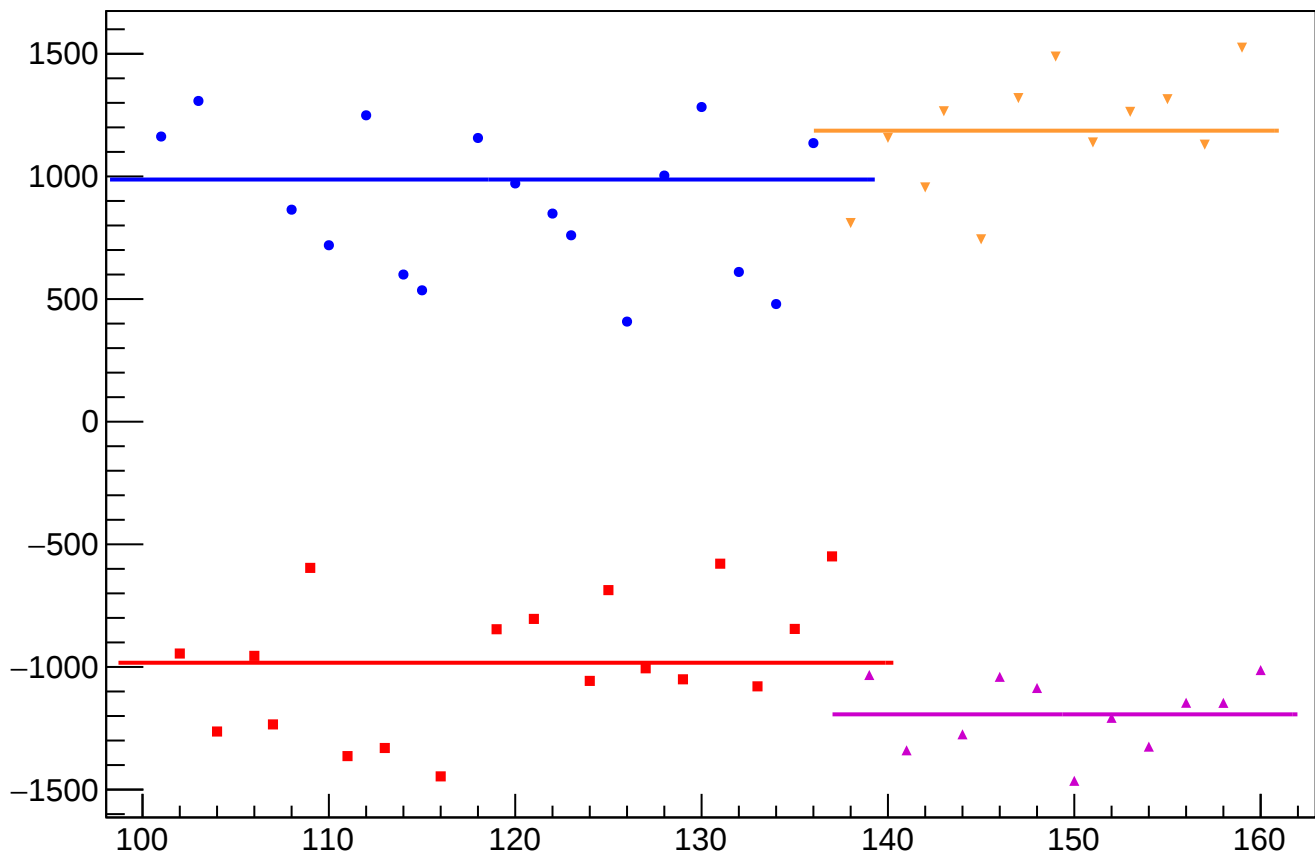
Right In: 25236.317+/-0.000  $\chi^2/\text{NDF}$ : 29071522213059582283269412071648973029376.0/16  
 Left Out: 18733.088+/-0.000  $\chi^2/\text{NDF}$ : 4548859708795276009115062862764547506176.0/11  
 Right Out: -26455.988+/-0.000  $\chi^2/\text{NDF}$ : 24365500126615965846523683173160051539968.0/17  
 Left In: -19304.267+/-0.000  $\chi^2/\text{NDF}$ : 5534312846763223984199919197299769606144.0/10  
 All: -733.477+/-0.000  $\chi^2/\text{NDF}$ : 16708833961

dit\_usr\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 799.524+/-0.000  $\chi^2/\text{NDF}$ : 112536154235498414231657645251770712064.0/16  
 Left Out: 591.628+/-0.000  $\chi^2/\text{NDF}$ : 22099670593221557738114196407951818752.0/11  
 Right Out: -757.193+/-0.000  $\chi^2/\text{NDF}$ : 76794158982285513543711222288246374400.0/17  
 Left In: -588.417+/-0.000  $\chi^2/\text{NDF}$ : 9911176401969663265546101605651185664.0/10  
 All: 0.699+/-0.000  $\chi^2/\text{NDF}$ : 17161176643386

dit\_usr\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

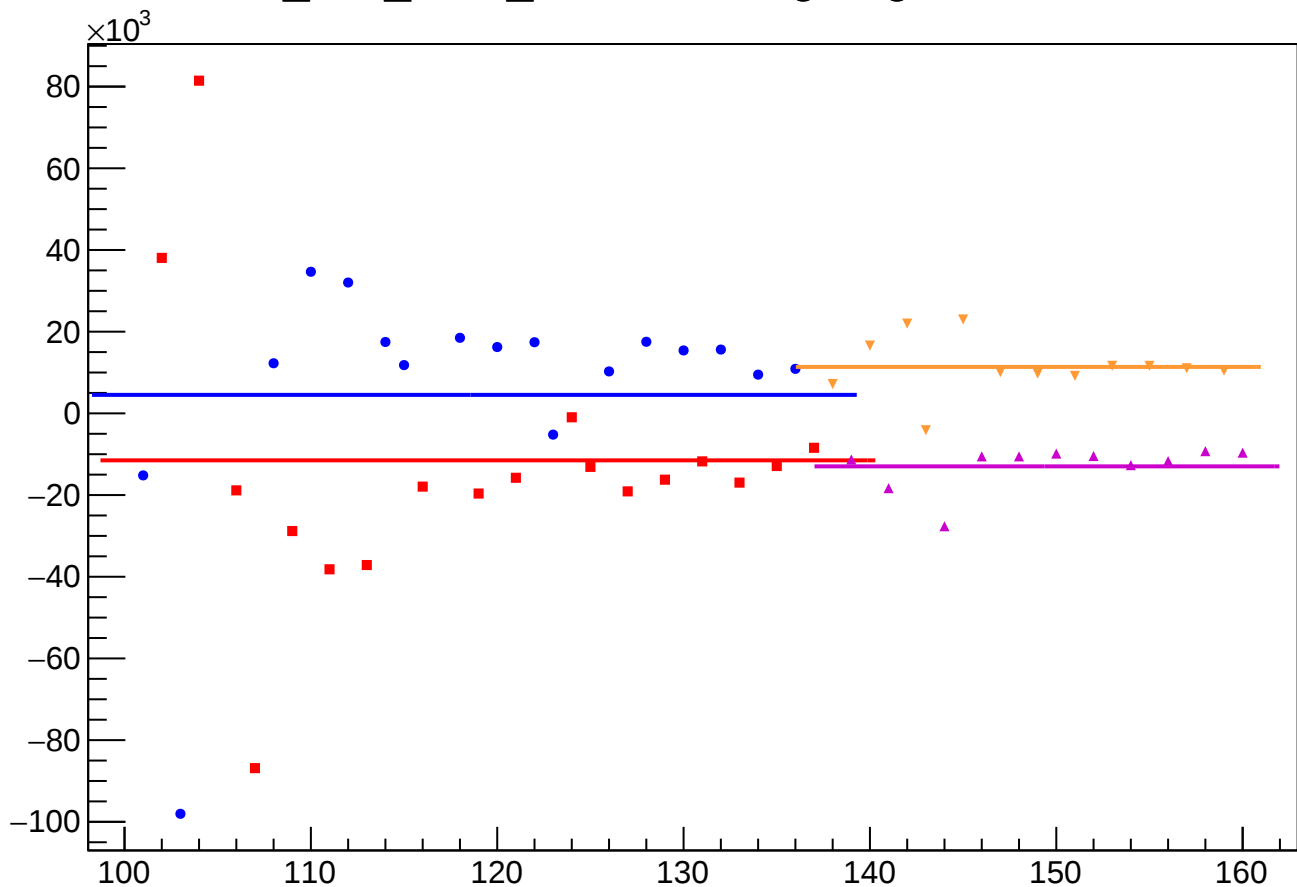
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

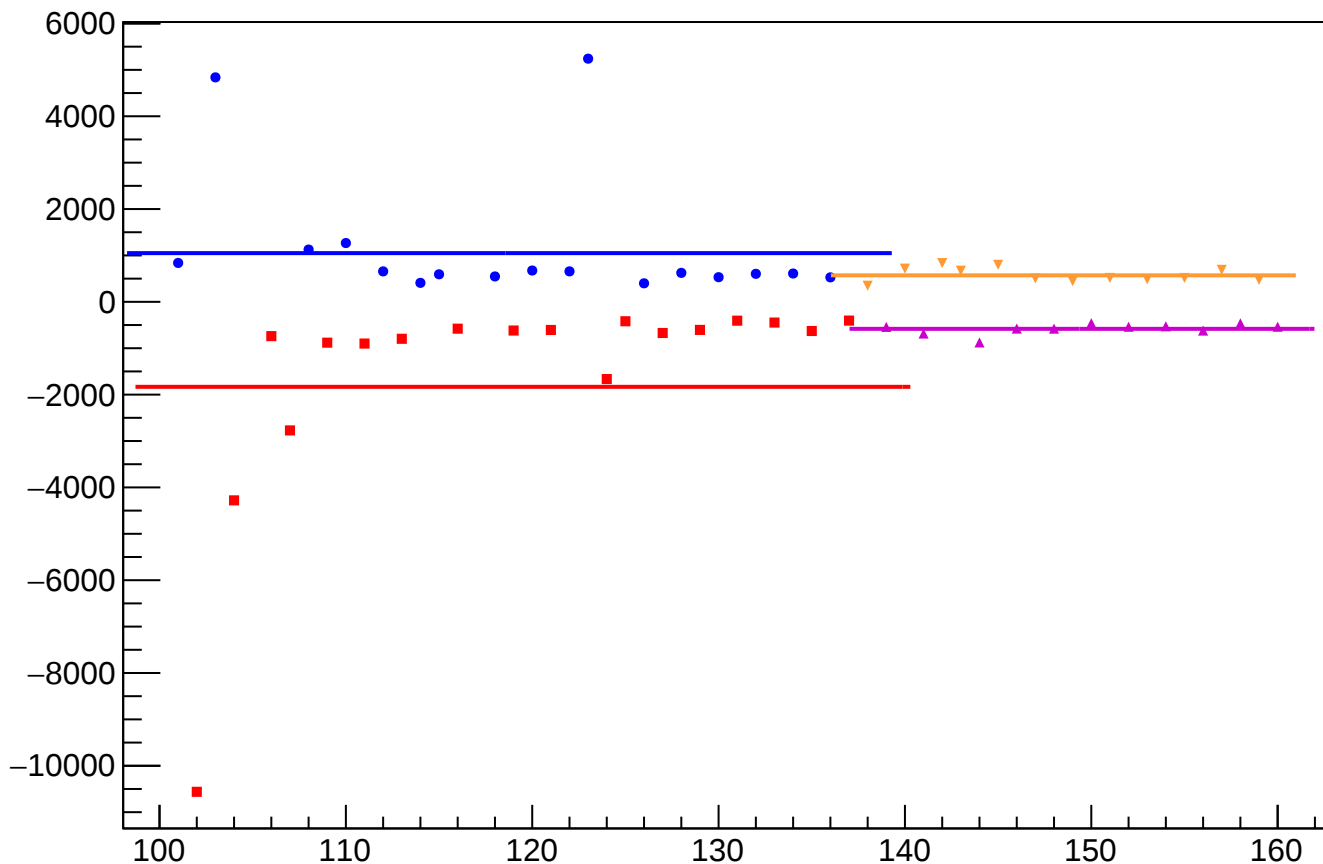
All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_atl1\_coil7\_mean vs Slug, Sign Corrected



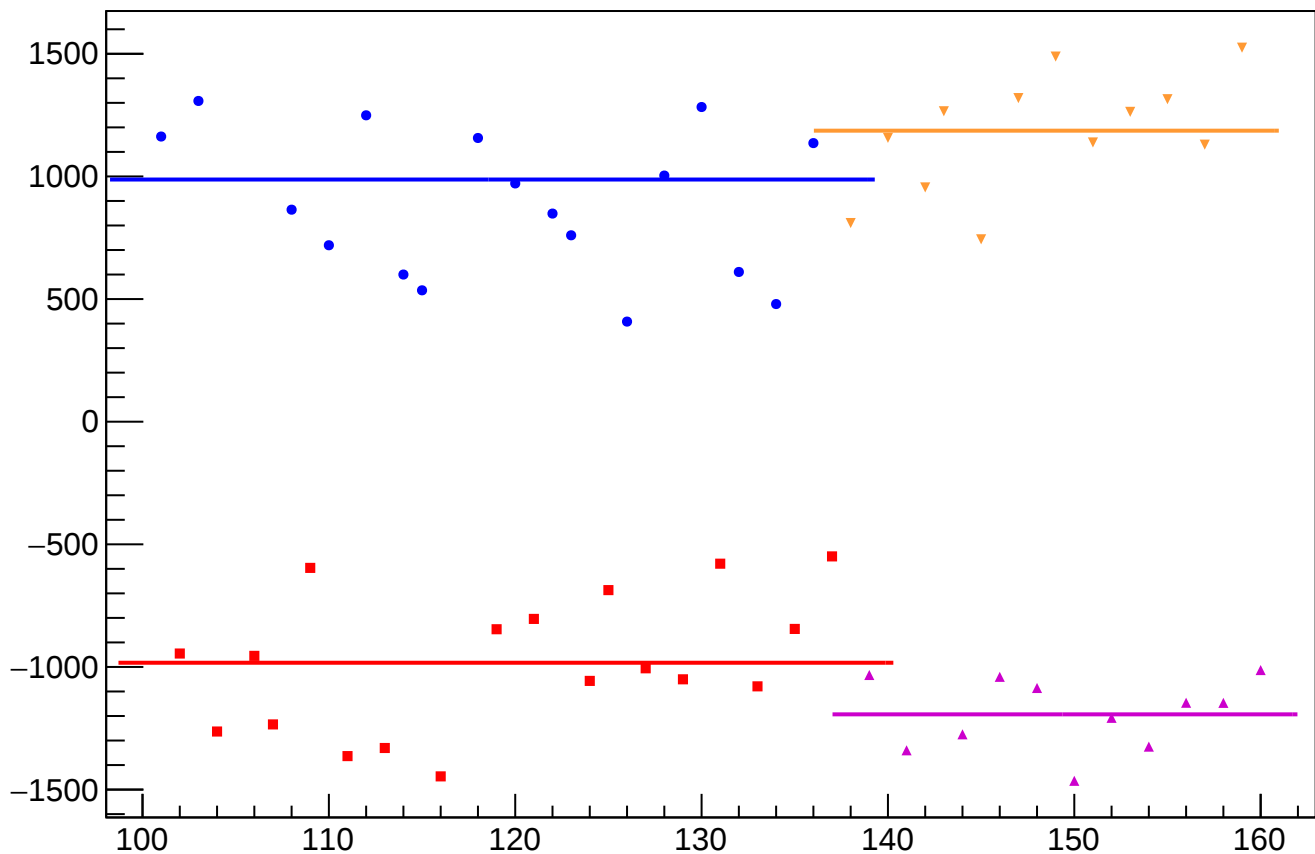
Left:  $-960.479 \pm 0.000$   $\chi^2/\text{NDF}: 335486095766420$   
 Right In:  $4528.489 \pm 0.000$   $\chi^2/\text{NDF}: 765984421186945141508299673026645807071232.0/16$   
 Left Out:  $11369.972 \pm 0.000$   $\chi^2/\text{NDF}: 36208718267646883298044880734212432330752.0/11$   
 Right Out:  $-11503.298 \pm 0.000$   $\chi^2/\text{NDF}: 877839720750399952947204251622051720200192.0/17$   
 Left In:  $-12973.748 \pm 0.000$   $\chi^2/\text{NDF}: 26423716846952217142475221393758111137792.0/10$   
 All:  $-2107.441 \pm 0.000$   $\chi^2/\text{NDF}: 2075415828$

dit\_atl1\_coil7\_err\_mean vs Slug, Sign Corrected



Left: -13.051+/-0.000  $\chi^2/\text{NDF}$ : 6418809450077942  
 Right In: 1049.780+/-0.000  $\chi^2/\text{NDF}$ : 1038421858157169578640574748223478956032.0/16  
 Right: -412.465+/-0.000  $\chi^2/\text{NDF}$ : 95232722558103  
 Left Out: 570.856+/-0.000  $\chi^2/\text{NDF}$ : 18128369827839480022049807034159726592.0/11  
 In: 114.074+/-0.000  $\chi^2/\text{NDF}$ : 21099081558302785  
 Right Out: -1831.763+/-0.000  $\chi^2/\text{NDF}$ : 5560667897153995144780835972954558824448.0/17  
 Out: -486.947+/-0.000  $\chi^2/\text{NDF}$ : 788901762621295  
 Left In: -581.939+/-0.000  $\chi^2/\text{NDF}$ : 11881601275531706993869358655522996224.0/10  
 All: -186.159+/-0.000  $\chi^2/\text{NDF}$ : 10292512175

dit\_atl1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

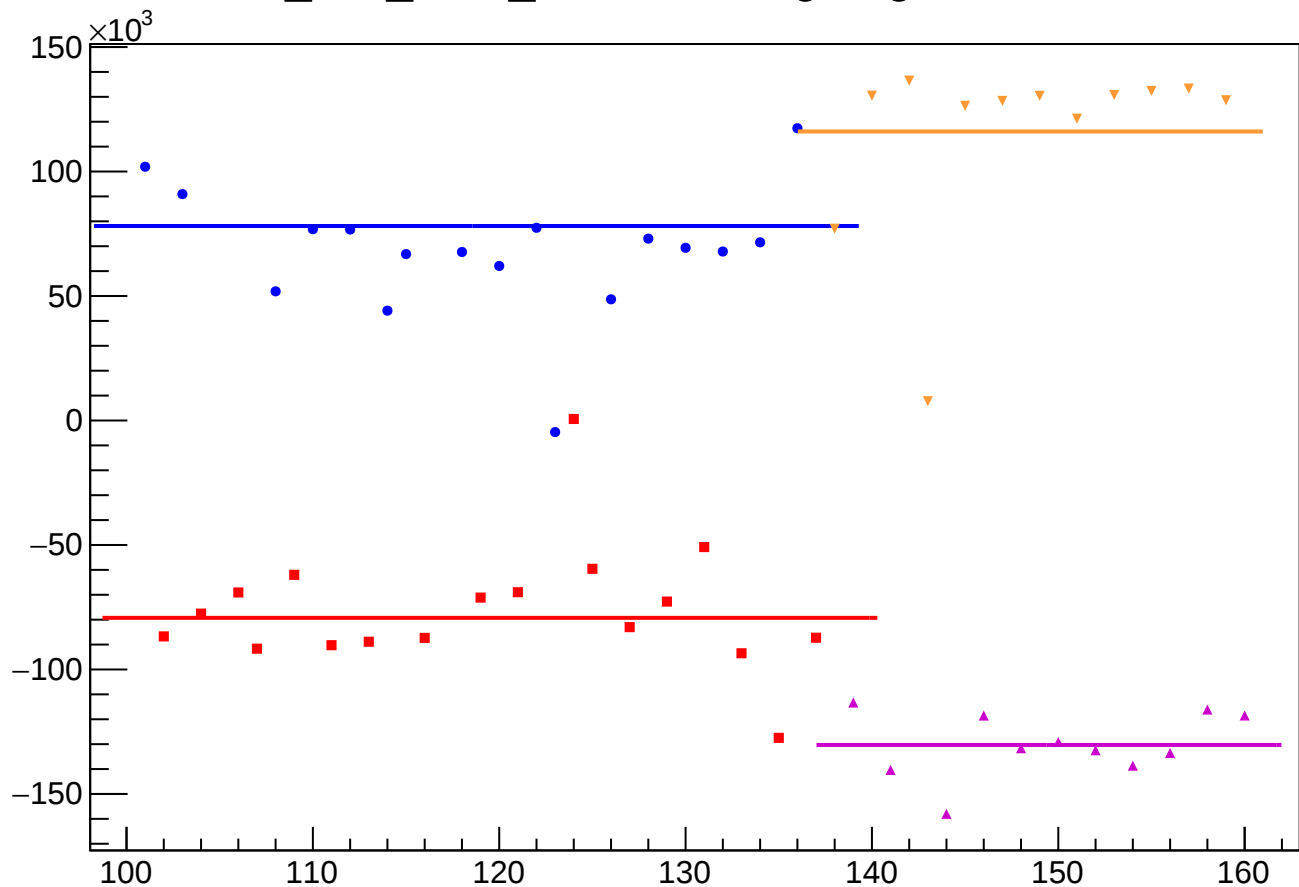
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_atl2\_coil7\_mean vs Slug, Sign Corrected



Right In: 78120.227+/-0.000

Left Out: 116083.925+/-0.000

Right Out: -79260.499+/-0.000

Left In: -130317.995+/-0.000

$\chi^2/\text{NDF}$ : 308820964030920149649775995002991312633856.0/16

$\chi^2/\text{NDF}$ : 1055028859665678299066390828243571544424448.0/11

$\chi^2/\text{NDF}$ : 303215964703866066986504542190112711114752.0/17

$\chi^2/\text{NDF}$ : 147443434358857033174111826688008821669888.0/10

Left: -8722.259+/-0.000  $\chi^2/\text{NDF}$ : 29156479686744

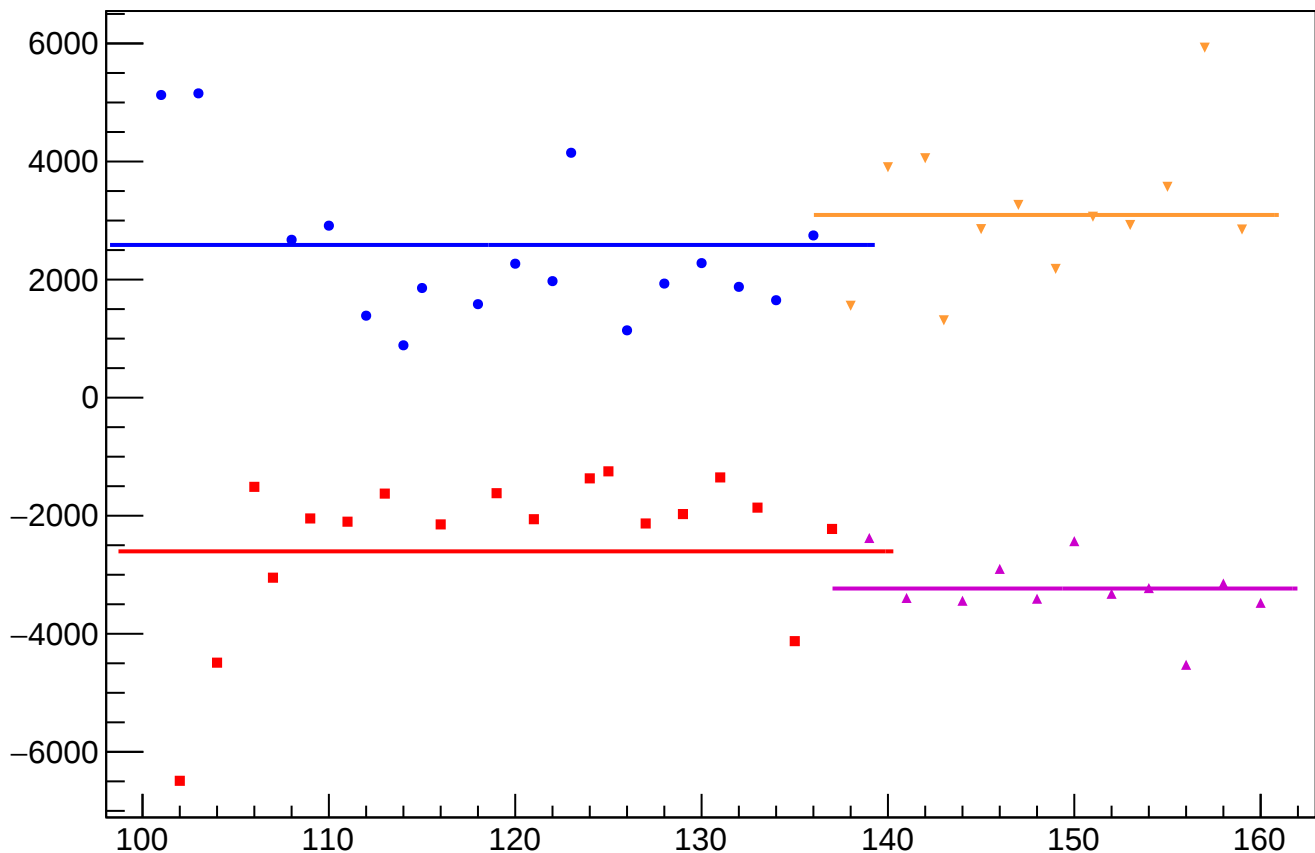
Right: -1742.952+/-0.000  $\chi^2/\text{NDF}$ : 9334870875198

In: -41408.268+/-0.000  $\chi^2/\text{NDF}$ : 17746793350482

Out: 30079.453+/-0.000  $\chi^2/\text{NDF}$ : 16629893935480

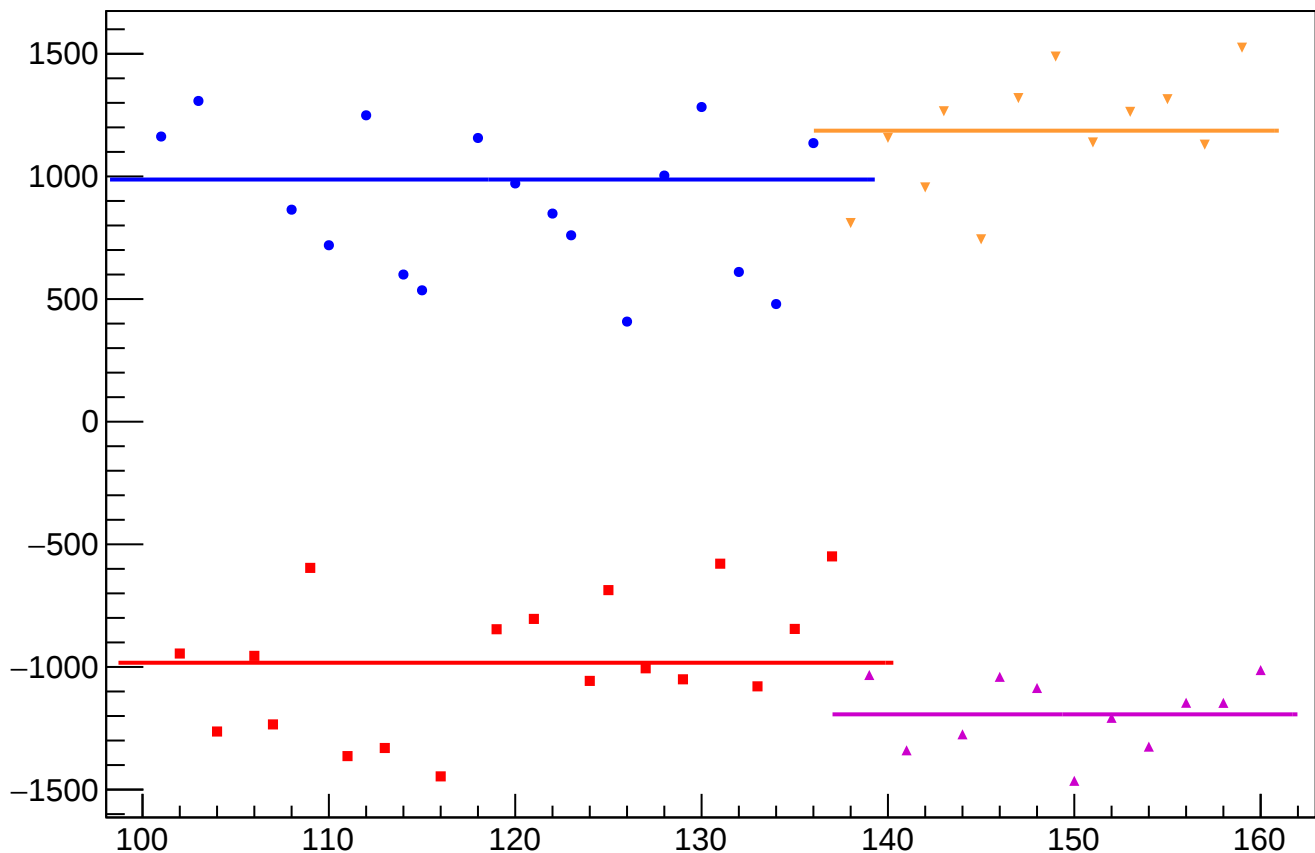
All: -5697.392+/-0.000  $\chi^2/\text{NDF}$ : 3853023790

dit\_atl2\_coil7\_err\_mean vs Slug, Sign Corrected



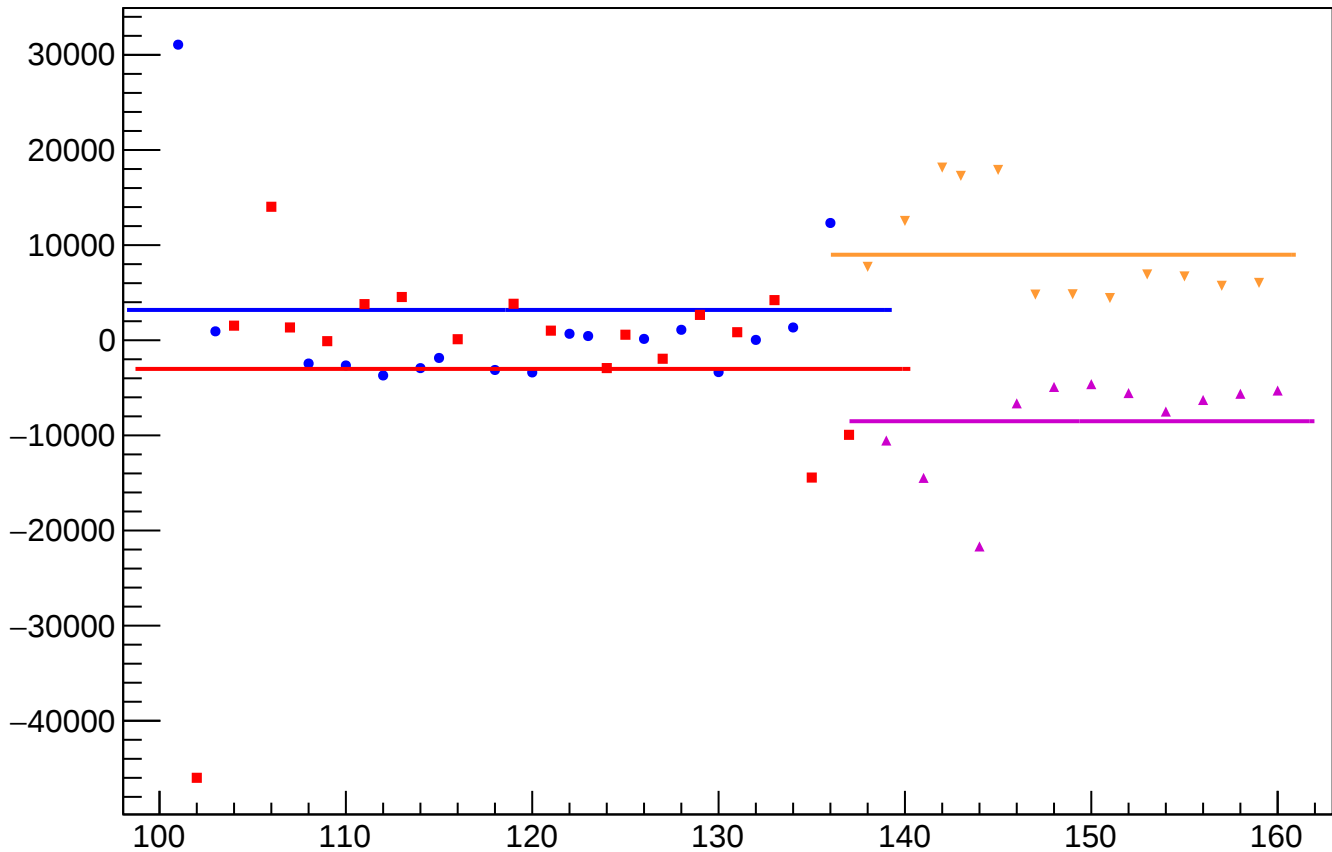
Right In: 2586.924+/-0.000  $\chi^2/\text{NDF}$ : 1122415737488478857695553804598689923072.0/16  
 Left Out: 3094.875+/-0.000  $\chi^2/\text{NDF}$ : 1190700908263990863745595905660178923520.0/11  
 Right Out: -2603.762+/-0.000  $\chi^2/\text{NDF}$ : 1547340202870581842616287406625719844864.0/17  
 Left In: -3233.353+/-0.000  $\chi^2/\text{NDF}$ : 275364684617140508153597807706060619776.0/10  
 All: -83.003+/-0.000  $\chi^2/\text{NDF}$ : 320659370232

dit\_atl2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Left: -18.822 +/- 0.000  $\chi^2/\text{NDF}$ : 2676111842139268  
 Right: -12.404 +/- 0.000  $\chi^2/\text{NDF}$ : 146772402174972  
 In: -263.084 +/- 0.000  $\chi^2/\text{NDF}$ : 1963690344467940  
 Out: 231.459 +/- 0.000  $\chi^2/\text{NDF}$ : 1981402088557405  
 All: -16.040 +/- 0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_atr1\_coil7\_mean vs Slug, Sign Corrected



Right In: 3187.051+/-0.000

$\chi^2/\text{NDF}$ : 66270389171193911836791515591398561677312.0/16

Left Out: 8990.897+/-0.000

$\chi^2/\text{NDF}$ : 22509101259112678607157462677691985559552.0/11

Right Out: -3012.400+/-0.000

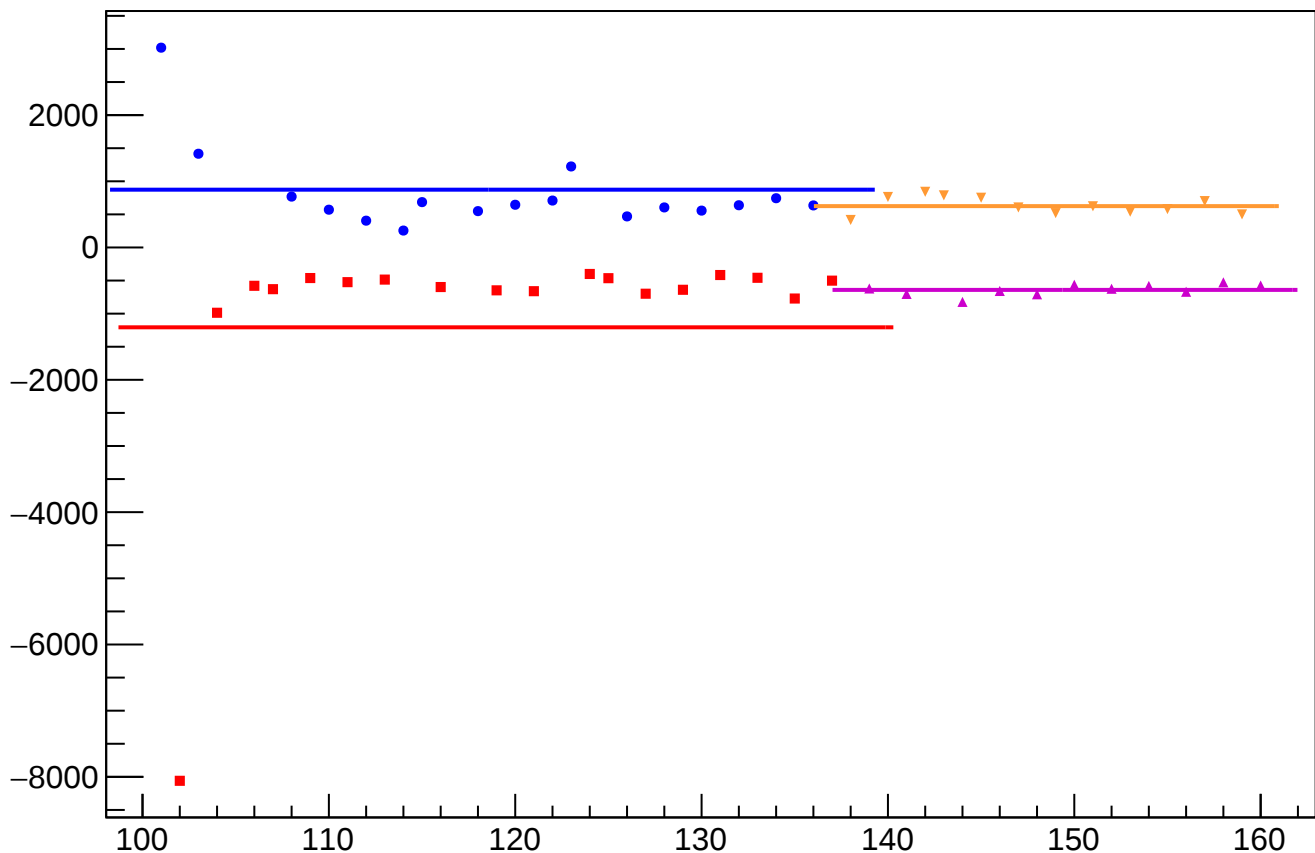
$\chi^2/\text{NDF}$ : 138157018088298657463529912150565226283008.0/17

Left In: -8511.318+/-0.000

$\chi^2/\text{NDF}$ : 24333332735687390089977674929475300622336.0/10

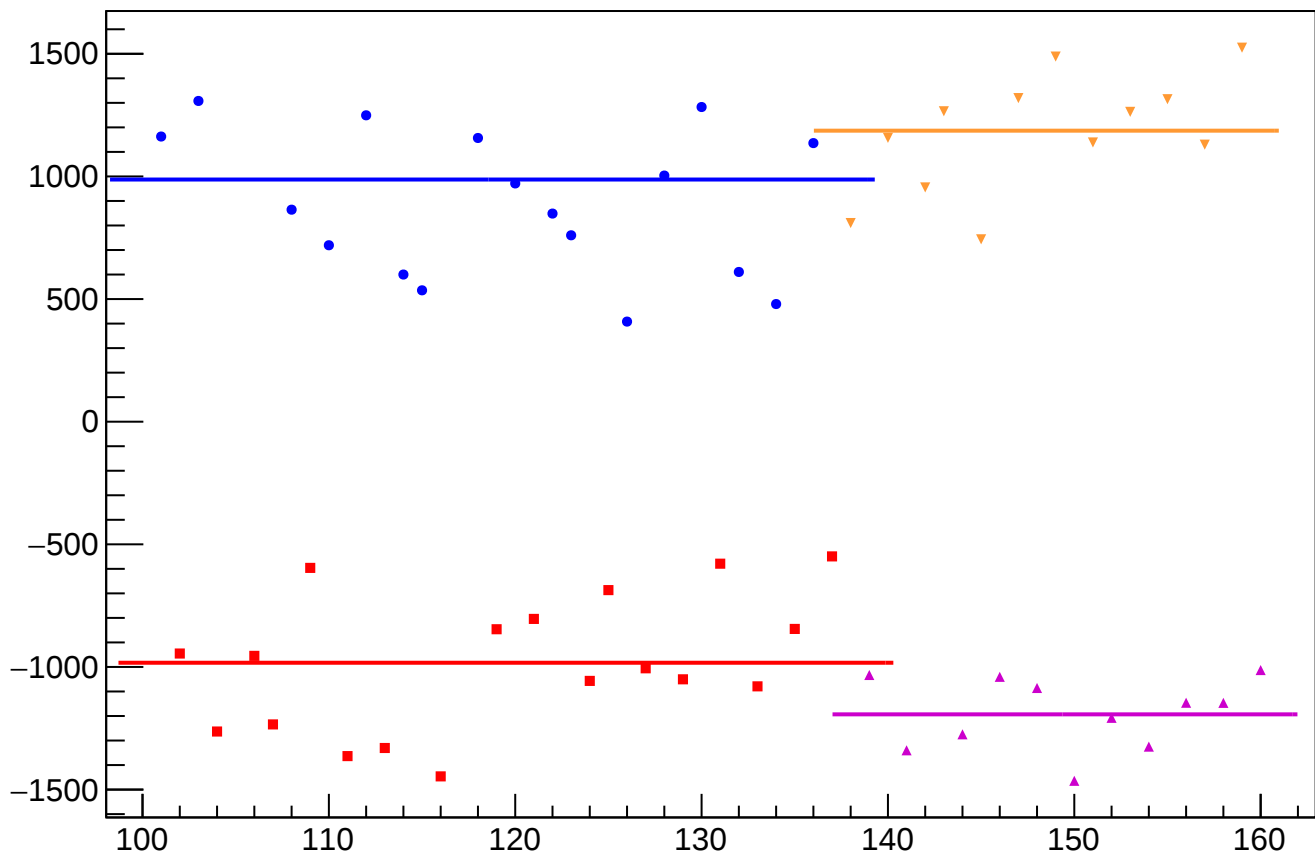
All: 89.084+/-0.000  $\chi^2/\text{NDF}$ : 4058505302621

dit\_atr1\_coil7\_err\_mean vs Slug, Sign Corrected



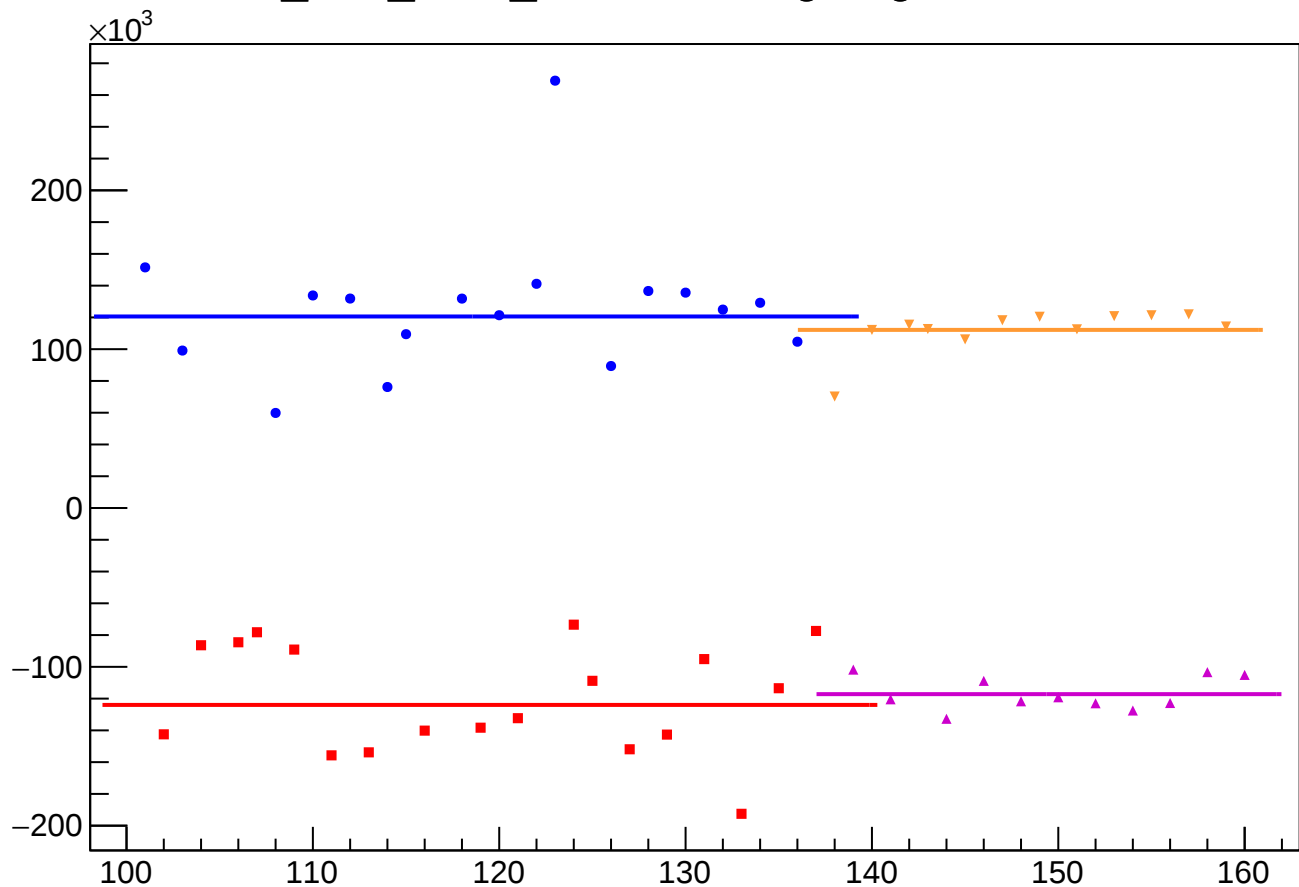
Right In: 873.306+/-0.000  $\chi^2/\text{NDF}$ : 340993590653355605867273192516364533760.0/16  
 Left Out: 624.813+/-0.000  $\chi^2/\text{NDF}$ : 13578620393793038879015873058055389184.0/11  
 Right Out: -1206.661+/-0.000  $\chi^2/\text{NDF}$ : 2979483538609797767268010500388070359040.0/17  
 Left In: -641.139+/-0.000  $\chi^2/\text{NDF}$ : 604973887802963625692620261114180608.0/10  
 All: -88.255+/-0.000  $\chi^2/\text{NDF}$ : 562351898294

dit\_atr1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



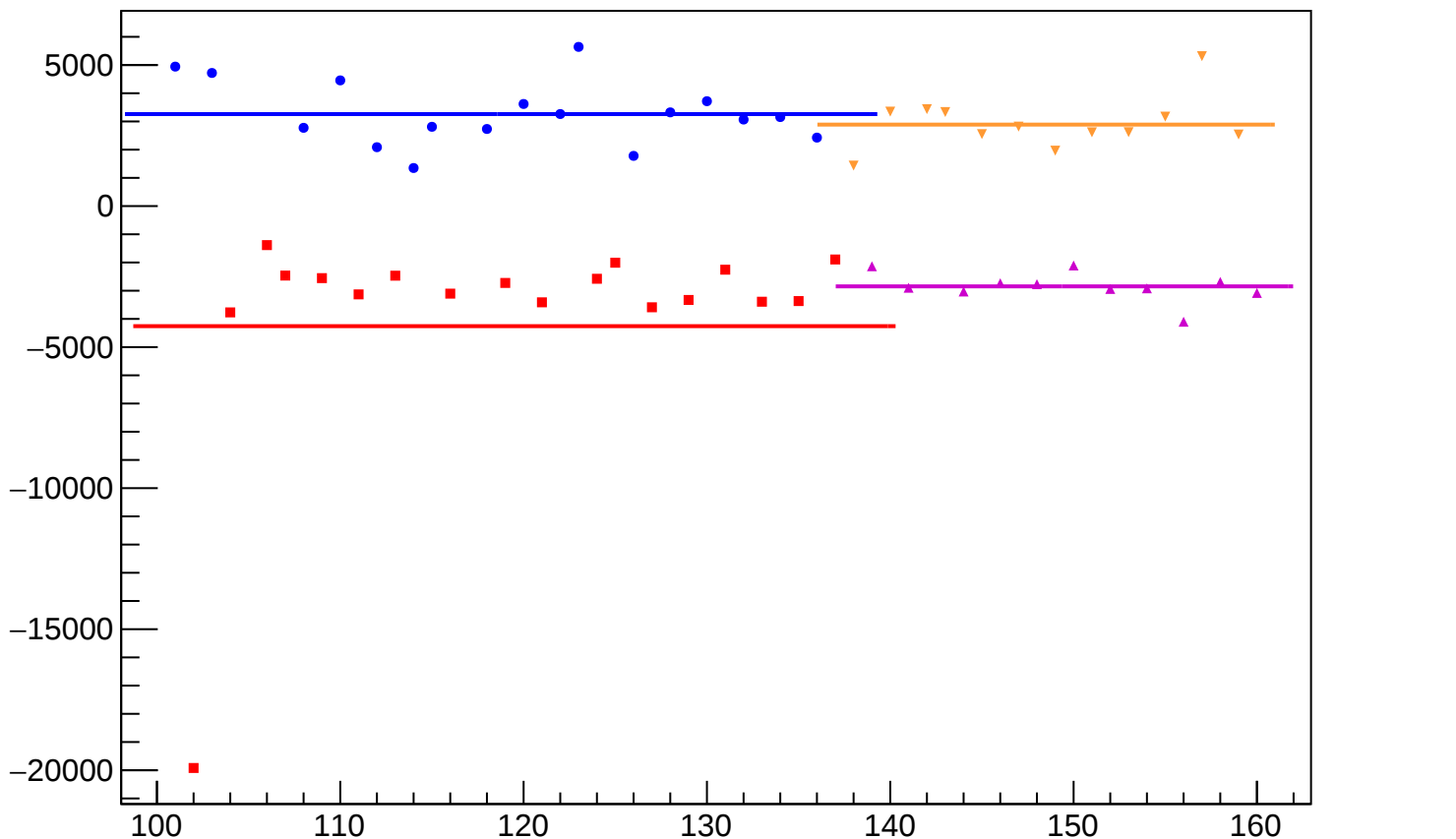
Left: -18.822 +/- 0.000  $\chi^2/\text{NDF}$ : 2676111842139268  
 Right: -12.404 +/- 0.000  $\chi^2/\text{NDF}$ : 146772402174972  
 In: -263.084 +/- 0.000  $\chi^2/\text{NDF}$ : 1963690344467940  
 Out: 231.459 +/- 0.000  $\chi^2/\text{NDF}$ : 1981402088557405  
 All: -16.040 +/- 0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_atr2\_coil7\_mean vs Slug, Sign Corrected



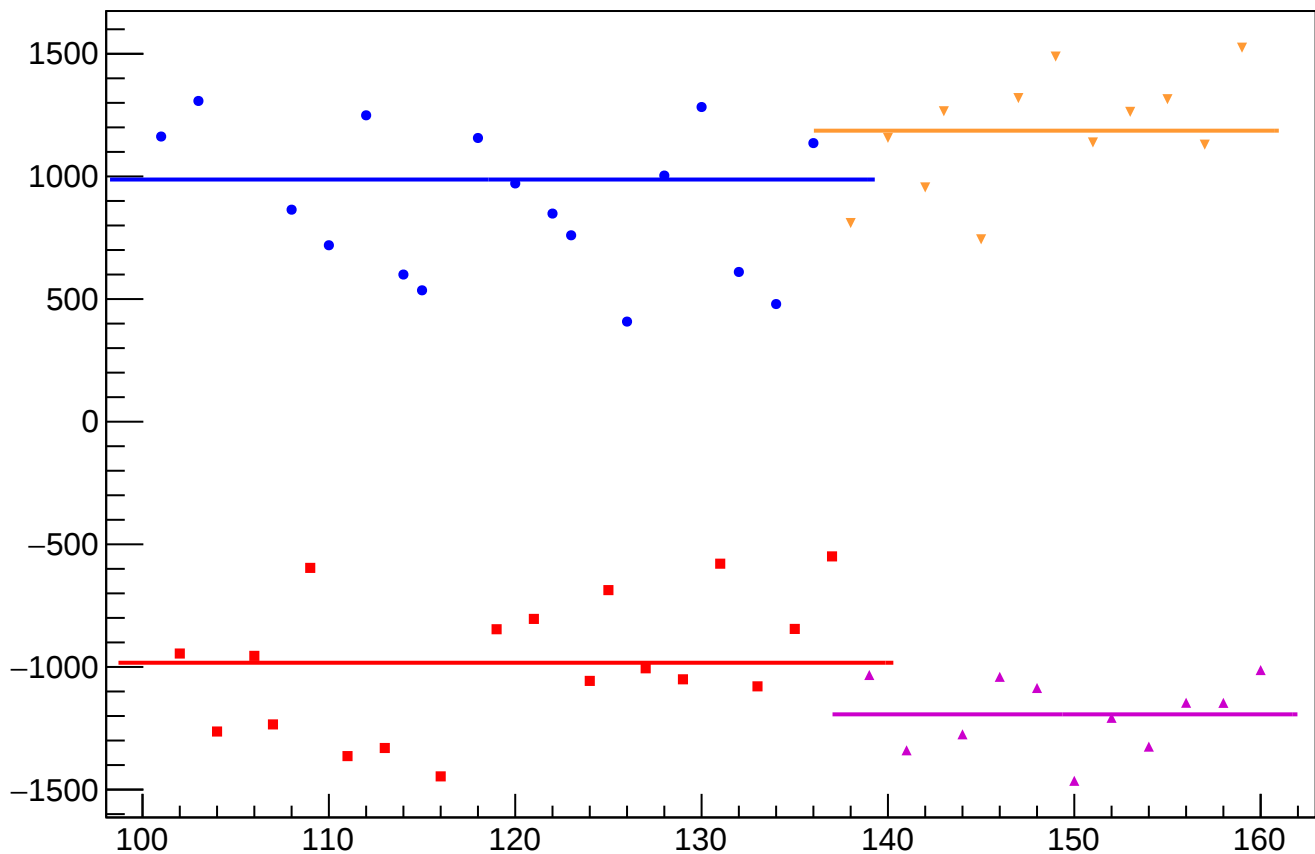
Left: -4015.080+/-0.000  $\chi^2/\text{NDF}$ : 24476989931131  
 Right: -3514.396+/-0.000  $\chi^2/\text{NDF}$ : 2228135518347  
 Right In: 120586.708+/-0.000  $\chi^2/\text{NDF}$ : 463702909226593065118055925390873188106240.0/16  
 Left Out: 112145.166+/-0.000  $\chi^2/\text{NDF}$ : 169803943899249833628115478004203597594624.0/11  
 Right Out: -123970.573+/-0.000  $\chi^2/\text{NDF}$ : 754871099831913254311543250015602251661312.0/17  
 Left In: -117187.281+/-0.000  $\chi^2/\text{NDF}$ : 92050085463575690364904587071982548287488.0/10  
 In: -15764.325+/-0.000  $\chi^2/\text{NDF}$ : 23055739050146  
 Out: 8190.269+/-0.000  $\chi^2/\text{NDF}$ : 232364322975440  
 All: -3798.081+/-0.000  $\chi^2/\text{NDF}$ : 4675854524

dit\_atr2\_coil7\_err\_mean vs Slug, Sign Corrected



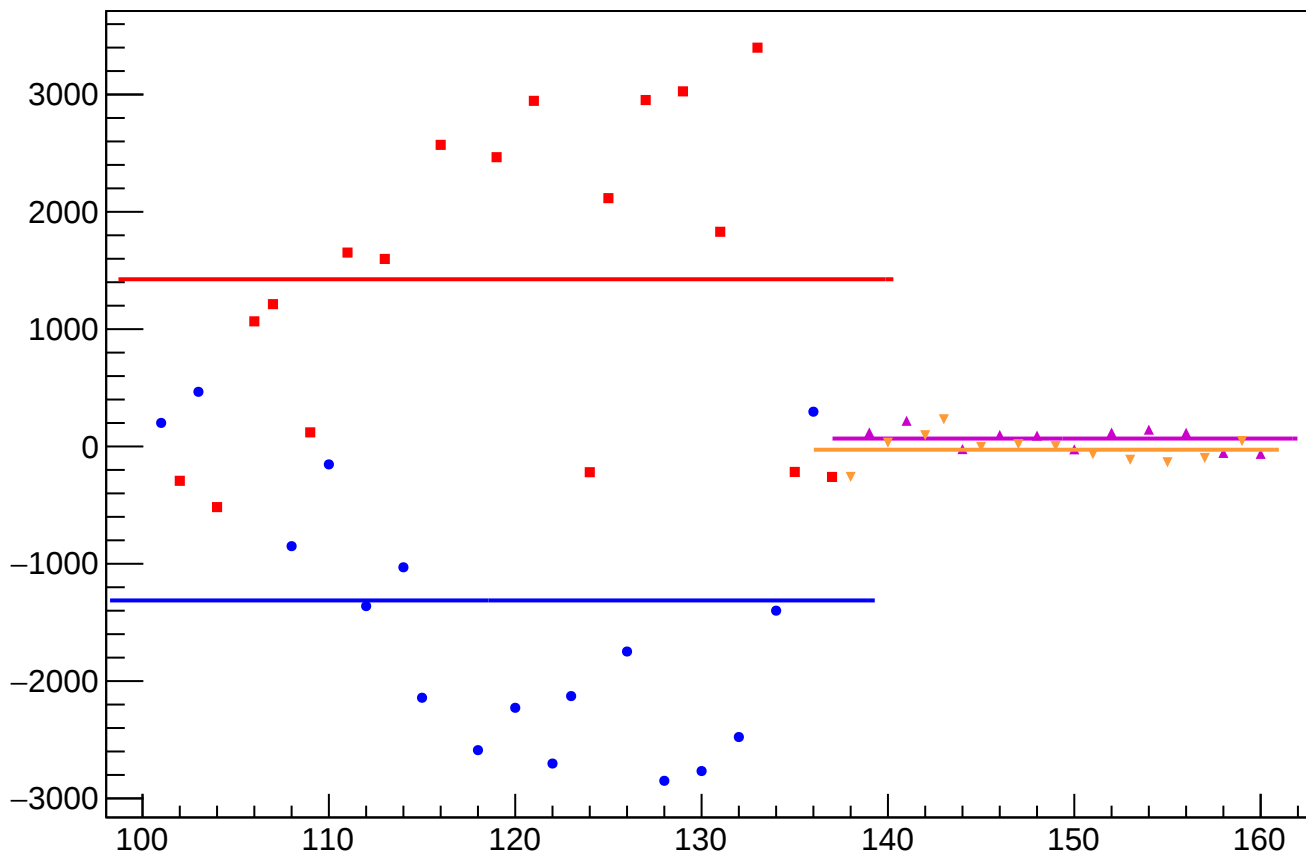
Right In: 3260.820+/-0.000  $\chi^2/\text{NDF}$ : 672456168638567614426723356415113560064.0/16  
 Left Out: 2888.367+/-0.000  $\chi^2/\text{NDF}$ : 753668821958591987367767496119843553280.0/11  
 Right Out: -4256.861+/-0.000  $\chi^2/\text{NDF}$ : 15744364448860197338037677656678376407040.0/17  
 Left In: -2846.533+/-0.000  $\chi^2/\text{NDF}$ : 228998195535204617287883903315551977472.0/10  
 All: -249.442+/-0.000  $\chi^2/\text{NDF}$ : 52676234483

dit\_atr2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



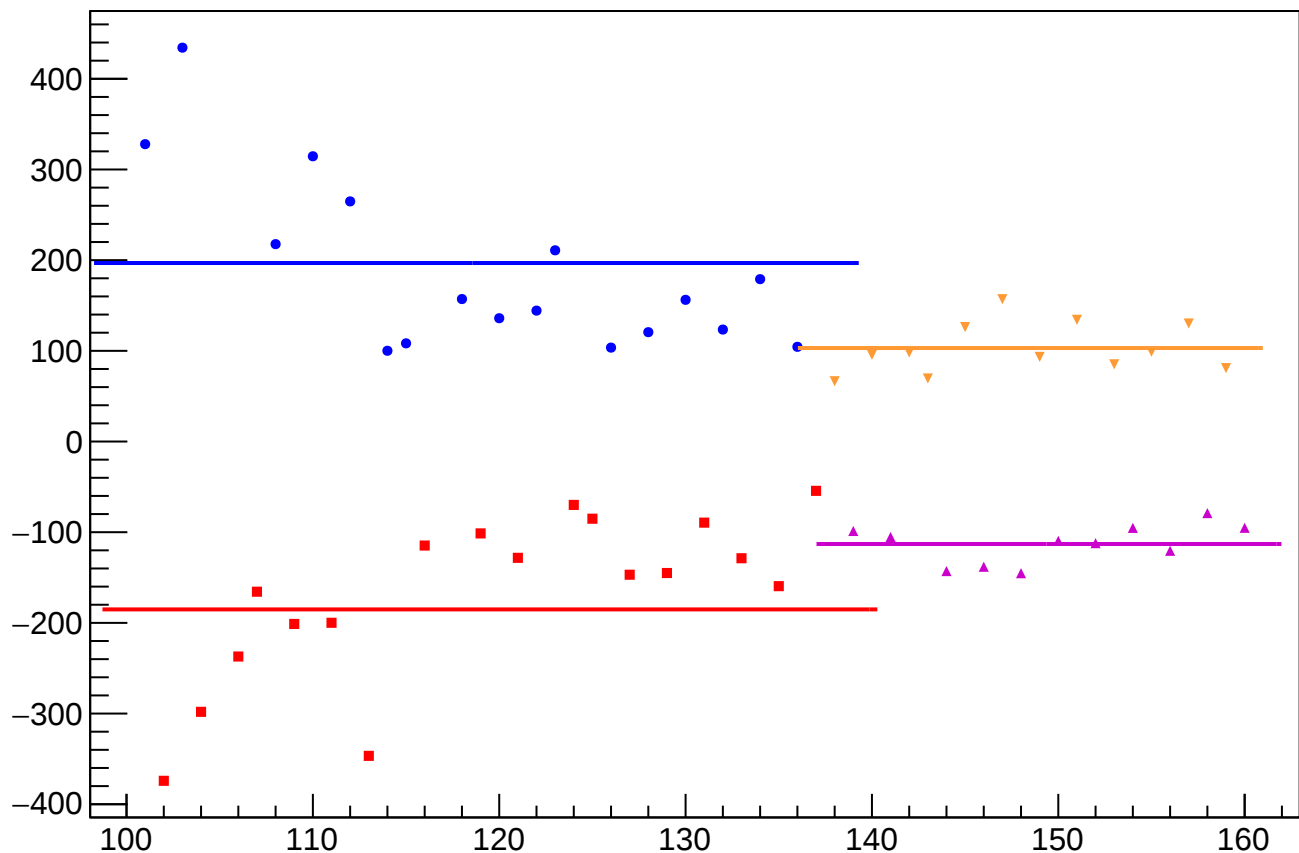
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: -18.822+/-0.000  | $\chi^2/\text{NDF}$ : 2676111842139268 |
| Left Out: 1186.594+/-0.000  | $\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11 | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: -263.084+/-0.000   | $\chi^2/\text{NDF}$ : 1963690344467940 |
| Left In: -1193.230+/-0.000  | $\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10 | Out: 231.459+/-0.000   | $\chi^2/\text{NDF}$ : 1981402088557405 |
|                             |                                                                   | All: -16.040+/-0.000   | $\chi^2/\text{NDF}$ : 414386874879     |

# dit\_sam1\_coil7\_mean vs Slug, Sign Corrected



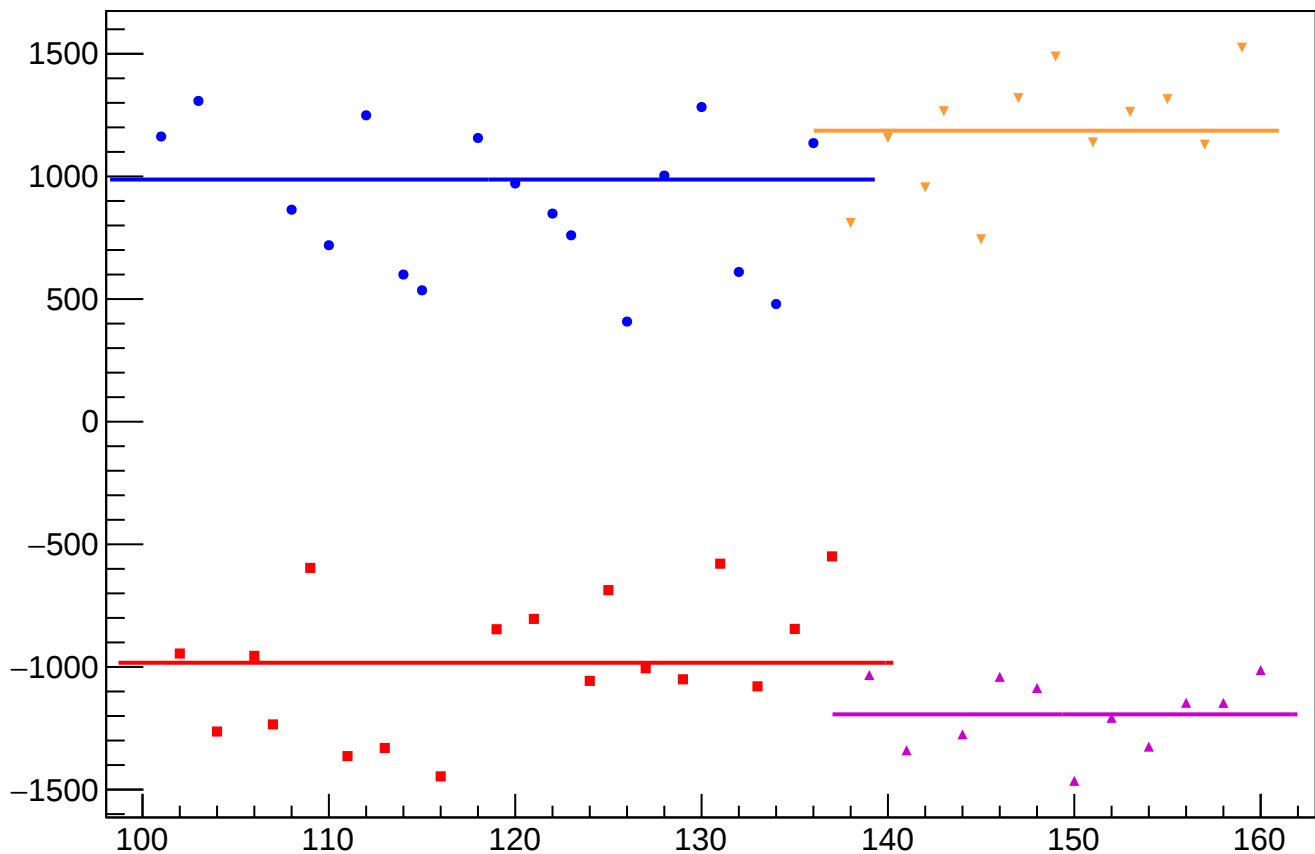
Left:  $20.341 \pm 0.000$   $\chi^2/\text{NDF}: 2396385679722455$   
 Right In:  $-1312.539 \pm 0.000$   $\chi^2/\text{NDF}: 1111791822009253468495433607153226612736.0/16$   
 Right:  $76.793 \pm 0.000$   $\chi^2/\text{NDF}: 5011395418904363$   
 Left Out:  $-27.898 \pm 0.000$   $\chi^2/\text{NDF}: 12443192627710109481350397021099393024.0/11$   
 In:  $-521.250 \pm 0.000$   $\chi^2/\text{NDF}: 1876902541000526$   
 Right Out:  $1425.319 \pm 0.000$   $\chi^2/\text{NDF}: 1259772432394270570555753847649915109376.0/17$   
 Out:  $611.911 \pm 0.000$   $\chi^2/\text{NDF}: 2117386598922048$   
 Left In:  $67.340 \pm 0.000$   $\chi^2/\text{NDF}: 7344542288743460655103542950920978432.0/10$   
 All:  $44.808 \pm 0.000$   $\chi^2/\text{NDF}: 5037903368261$

dit\_sam1\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 196.858 $\pm$ 0.000  $\chi^2$ /NDF: 7337666778319090402870822115647422464.0/16  
 Left Out: 103.111 $\pm$ 0.000  $\chi^2$ /NDF: 658393761495499558426534507754553344.0/11  
 Right Out: -185.135 $\pm$ 0.000  $\chi^2$ /NDF: 6160706554997434160213032977968398336.0/17  
 Left In: -113.009 $\pm$ 0.000  $\chi^2$ /NDF: 394825243882053718517351386298974208.0/10  
 All: -2.295 $\pm$ 0.000  $\chi^2$ /NDF: 8751541614442

dit\_sam1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

Left: -18.822+/-0.000  $\chi^2/\text{NDF}$ : 2676111842139268

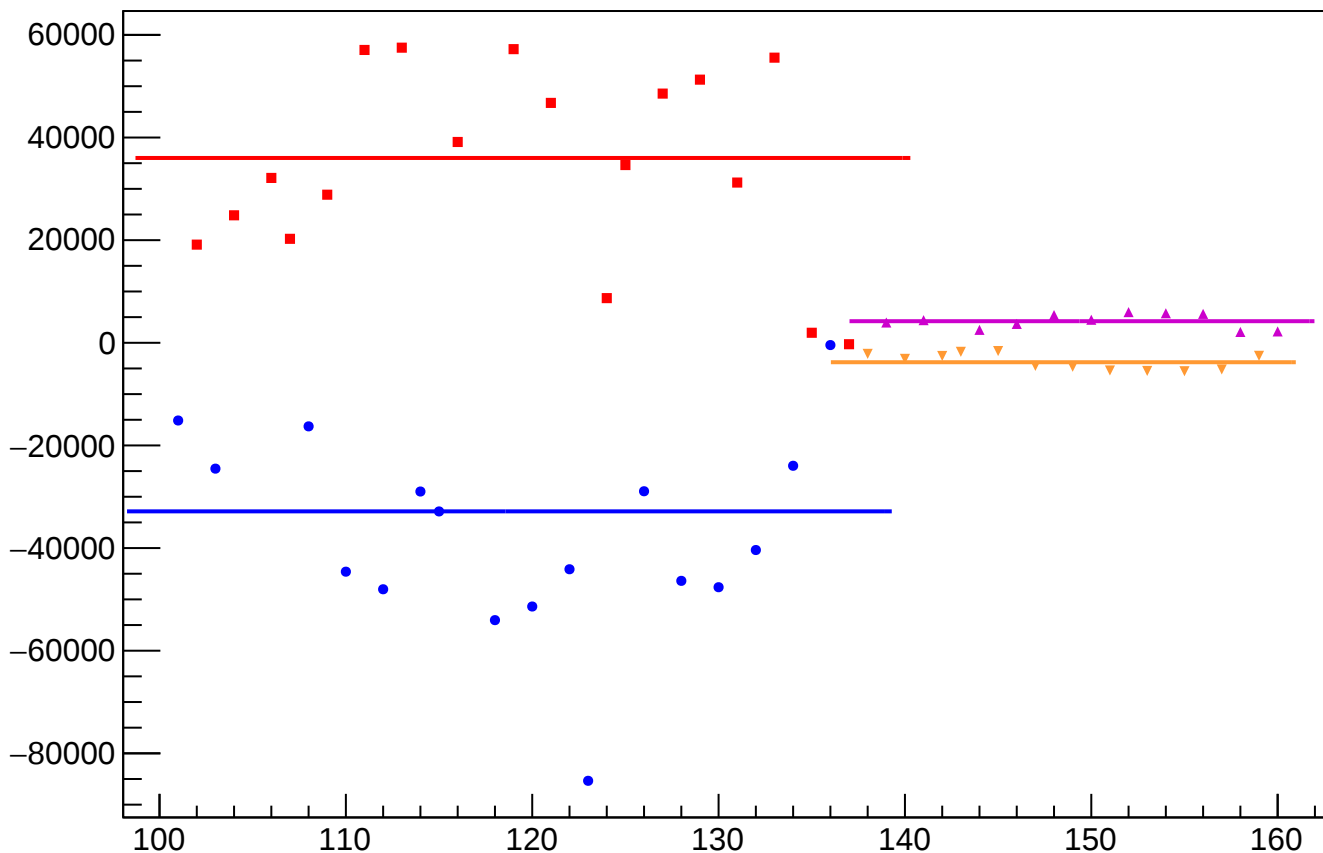
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 263.084+/-0.000  $\chi^2/\text{NDF}$ : 1963690344467940

Out: 231.459+/-0.000  $\chi^2/\text{NDF}$ : 1981402088557405

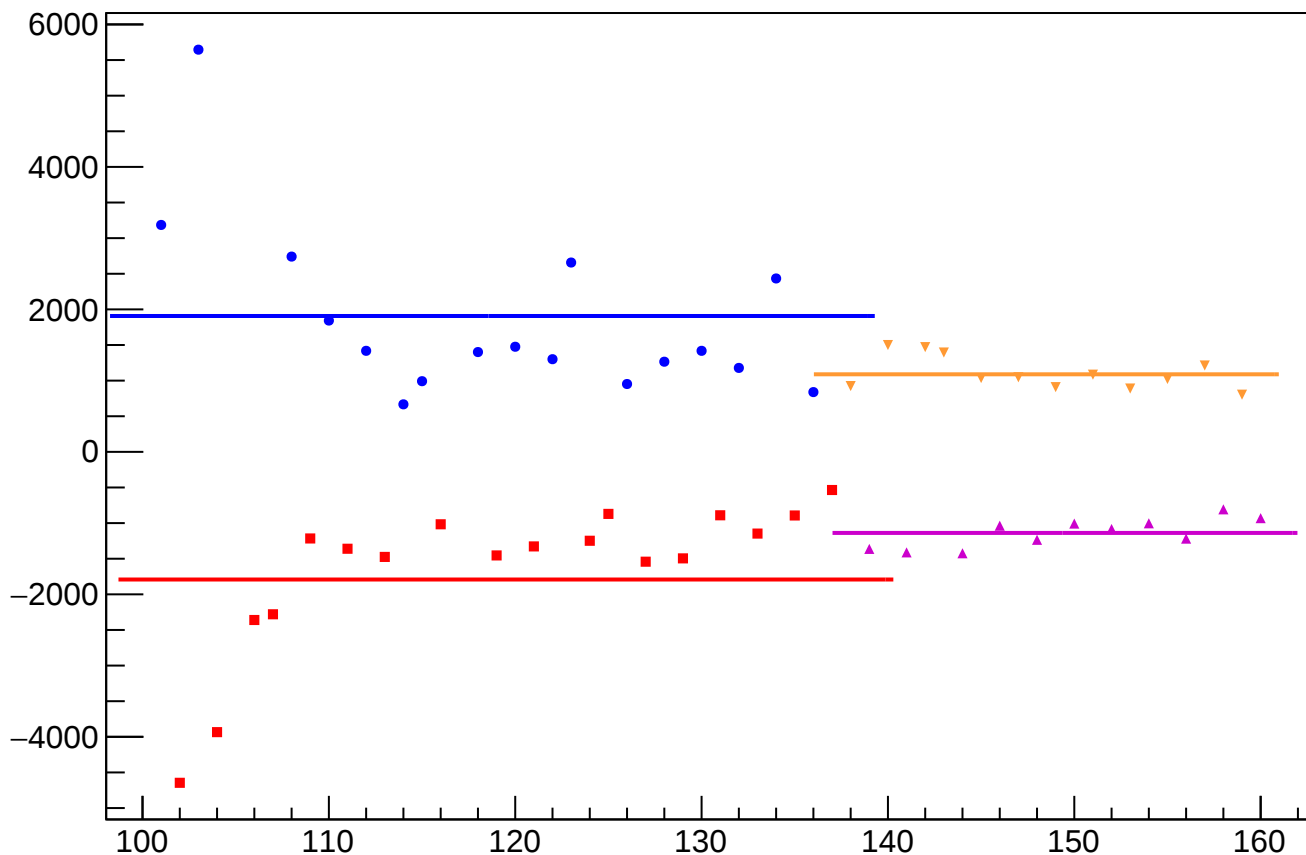
All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_sam2\_coil7\_mean vs Slug, Sign Corrected



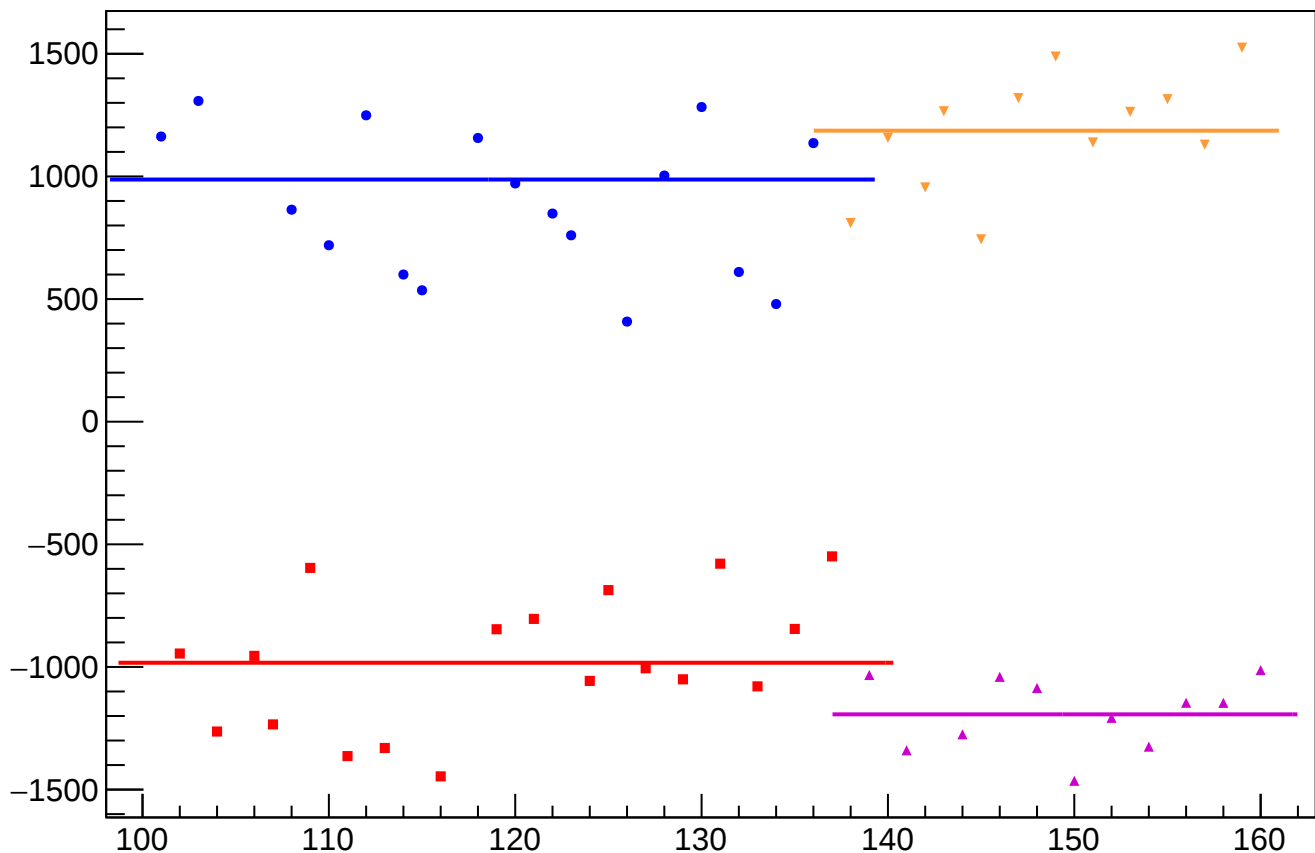
Left: 264.500+/-0.000  $\chi^2/\text{NDF}$ : 3320507875452057  
 Right In: -32846.038+/-0.000  $\chi^2/\text{NDF}$ : 219637368732777746312600570455176987541504.0/16  
 Right: 2099.121+/-0.000  $\chi^2/\text{NDF}$ : 21185895144652  
 Left Out: -3785.473+/-0.000  $\chi^2/\text{NDF}$ : 2024140029118734707580792113032155103232.0/11  
 In: -11596.157+/-0.000  $\chi^2/\text{NDF}$ : 76786767072050  
 Right Out: 36017.918+/-0.000  $\chi^2/\text{NDF}$ : 228867649175680979480074989628486510968832.0/17  
 Out: 13738.803+/-0.000  $\chi^2/\text{NDF}$ : 86494254988186  
 Left In: 4210.293+/-0.000  $\chi^2/\text{NDF}$ : 1745128048653719102038328653644061212672.0/10  
 All: 1059.634+/-0.000  $\chi^2/\text{NDF}$ : 21544816464

dit\_sam2\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 1907.271+/-0.000  $\chi^2/\text{NDF}$ : 1224904405299911350916968067746563620864.0/16  
 Left Out: 1088.725+/-0.000  $\chi^2/\text{NDF}$ : 43426775502308875672481877774003339264.0/11  
 Right Out: -1791.825+/-0.000  $\chi^2/\text{NDF}$ : 941640864566938486349149292441762791424.0/17  
 Left In: -1137.882+/-0.000  $\chi^2/\text{NDF}$ : 35720611822327029625984911153333010432.0/10  
 All: -9.075+/-0.000  $\chi^2/\text{NDF}$ : 9351066606188

dit\_sam2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

Left: -18.822+/-0.000  $\chi^2/\text{NDF}$ : 2676111842139268

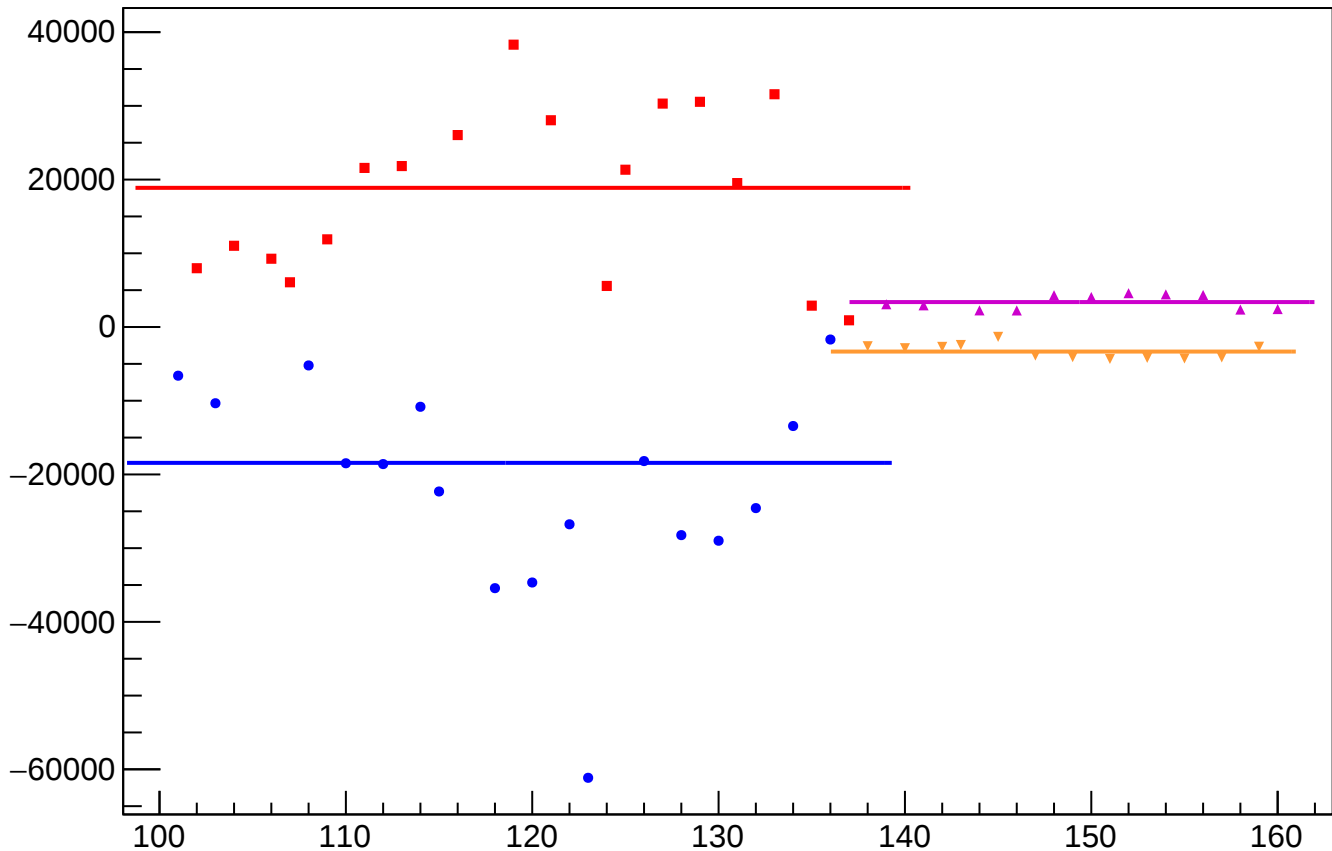
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 263.084+/-0.000  $\chi^2/\text{NDF}$ : 1963690344467940

Out: 231.459+/-0.000  $\chi^2/\text{NDF}$ : 1981402088557405

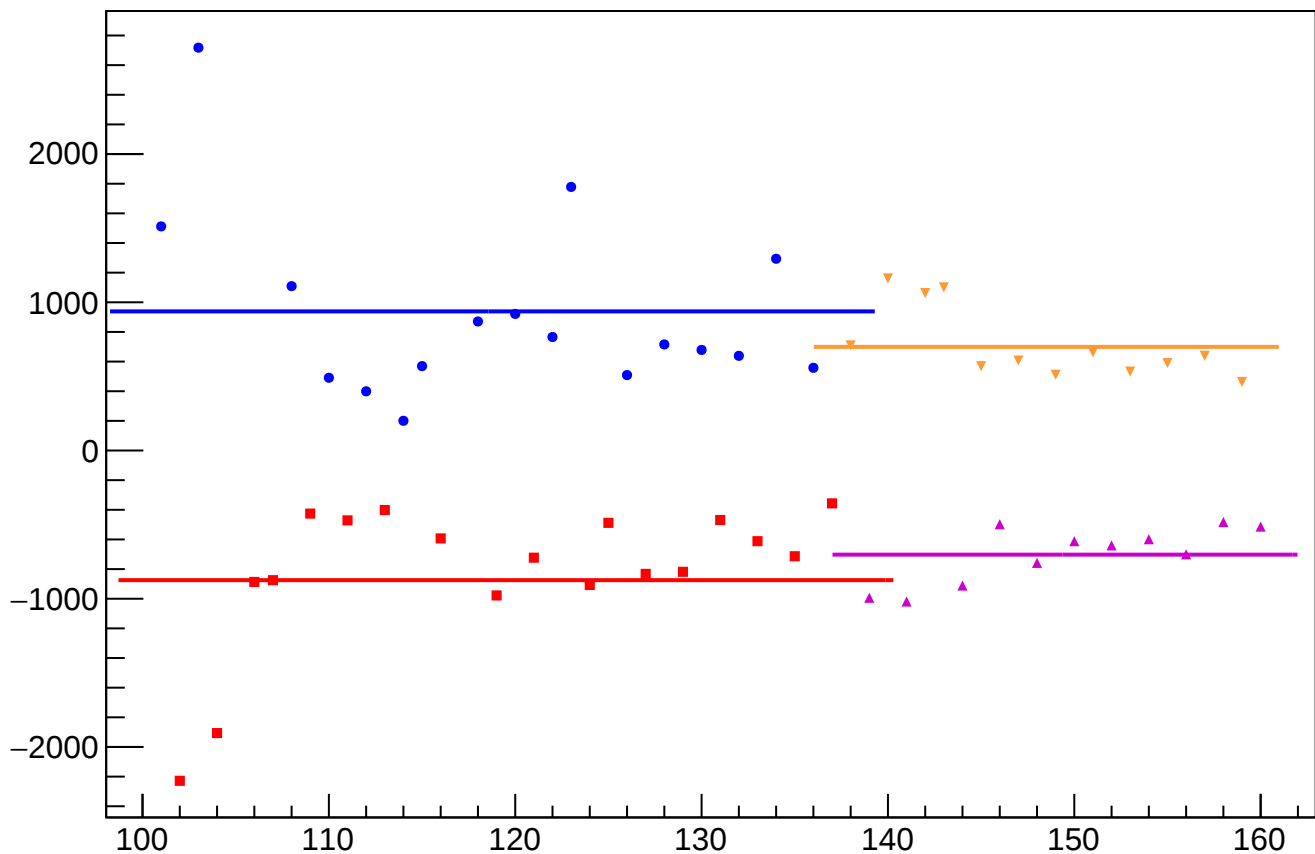
All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_sam3\_coil7\_mean vs Slug, Sign Corrected



Left:  $70.281 \pm 0.000$   $\chi^2/\text{NDF}: 2236979424369805$   
 Right In:  $-18428.768 \pm 0.000$   $\chi^2/\text{NDF}: 91790167940984507561863911678204862005248.0/16$   
 Right:  $503.934 \pm 0.000$   $\chi^2/\text{NDF}: 667636282004916$   
 Left Out:  $-3330.218 \pm 0.000$   $\chi^2/\text{NDF}: 801638931401536809328175362972460253184.0/11$   
 In:  $-5920.675 \pm 0.000$   $\chi^2/\text{NDF}: 281948729068487$   
 Right Out:  $18880.571 \pm 0.000$   $\chi^2/\text{NDF}: 85627666736634579824962235279591398703104.0/17$   
 Out:  $6448.547 \pm 0.000$   $\chi^2/\text{NDF}: 283858740763238$   
 Left In:  $3383.309 \pm 0.000$   $\chi^2/\text{NDF}: 816279200160971630569460981745055694848.0/10$   
 All:  $258.229 \pm 0.000$   $\chi^2/\text{NDF}: 690156206365$

# dit\_sam3\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 938.658+/-0.000

$\chi^2/\text{NDF}$ : 274123287156186942430302567816841134080.0/16

Left: -10.814+/-0.000  $\chi^2/\text{NDF}$ : 9840586454746363

Right: 18.480+/-0.000  $\chi^2/\text{NDF}$ : 1644825947456125

Left Out: 699.181+/-0.000

$\chi^2/\text{NDF}$ : 47485076871287899089179265063714816000.0/11

In: -2.487+/-0.000  $\chi^2/\text{NDF}$ : 137800176451406889

Right Out: -874.671+/-0.000

$\chi^2/\text{NDF}$ : 212705560210060381413787152265269739520.0/17

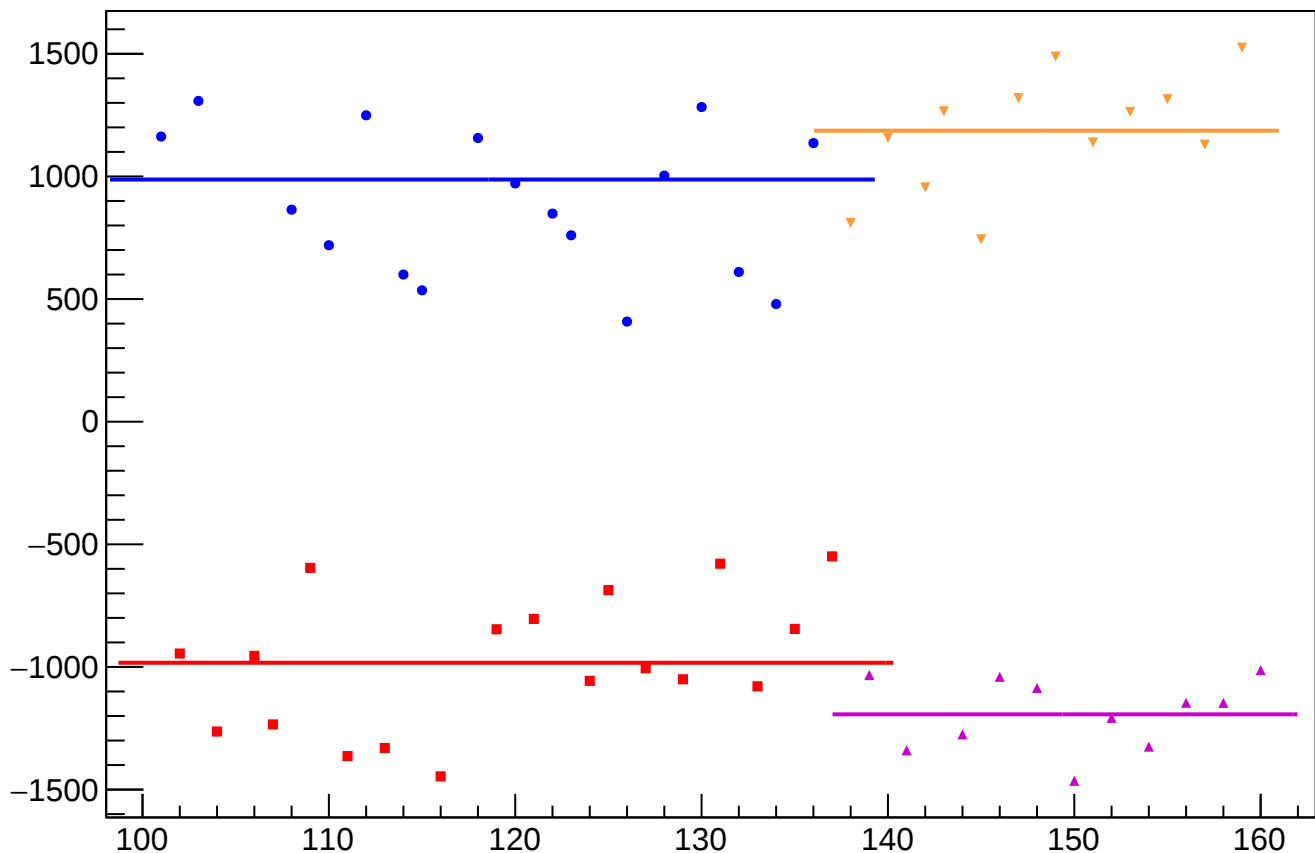
Out: 6.260+/-0.000  $\chi^2/\text{NDF}$ : 125150572862786669

Left In: -702.545+/-0.000

$\chi^2/\text{NDF}$ : 31919745309700759426030449402090356736.0/10

All: 1.882+/-0.000  $\chi^2/\text{NDF}$ : 2629569674694

dit\_sam3\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

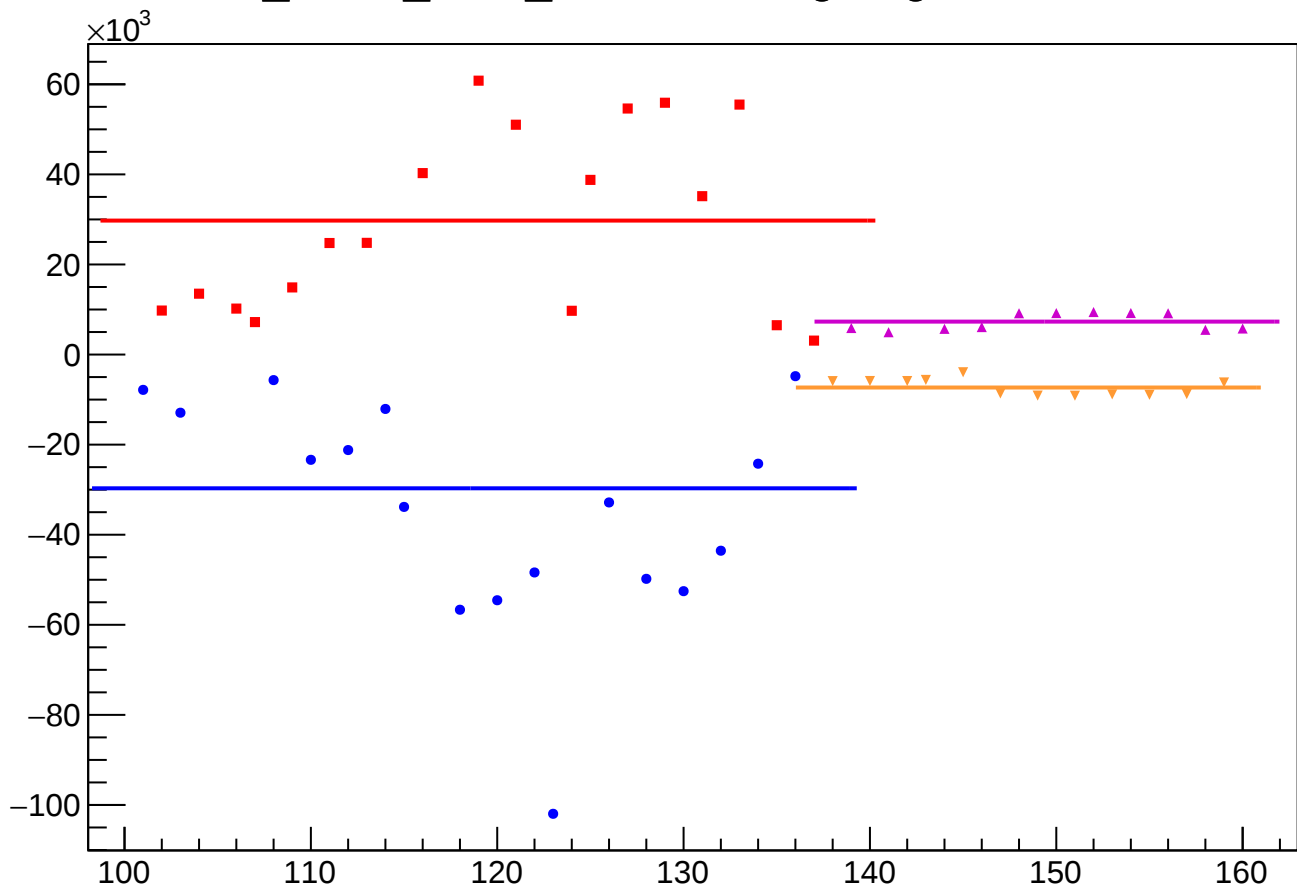
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_sam4\_coil7\_mean vs Slug, Sign Corrected



Right In: -29694.846 $\pm$ 0.000

$\chi^2$ /NDF: 282999478252028644685471433230520510578688.0/16

Left Out: -7317.919 $\pm$ 0.000

$\chi^2$ /NDF: 2833730252125360195766219580881057611776.0/11

Right Out: 29744.384 $\pm$ 0.000

$\chi^2$ /NDF: 283667805670372144788905534129497910018048.0/17

Left In: 7312.611 $\pm$ 0.000

$\chi^2$ /NDF: 3060303804070457713816420667232681459712.0/10

Left: 92.659 $\pm$ 0.000  $\chi^2$ /NDF: 10444842958829029

Right: 467.716 $\pm$ 0.000

$\chi^2$ /NDF: 181089789808864

In: -8472.992 $\pm$ 0.000

$\chi^2$ /NDF: 831104398291345

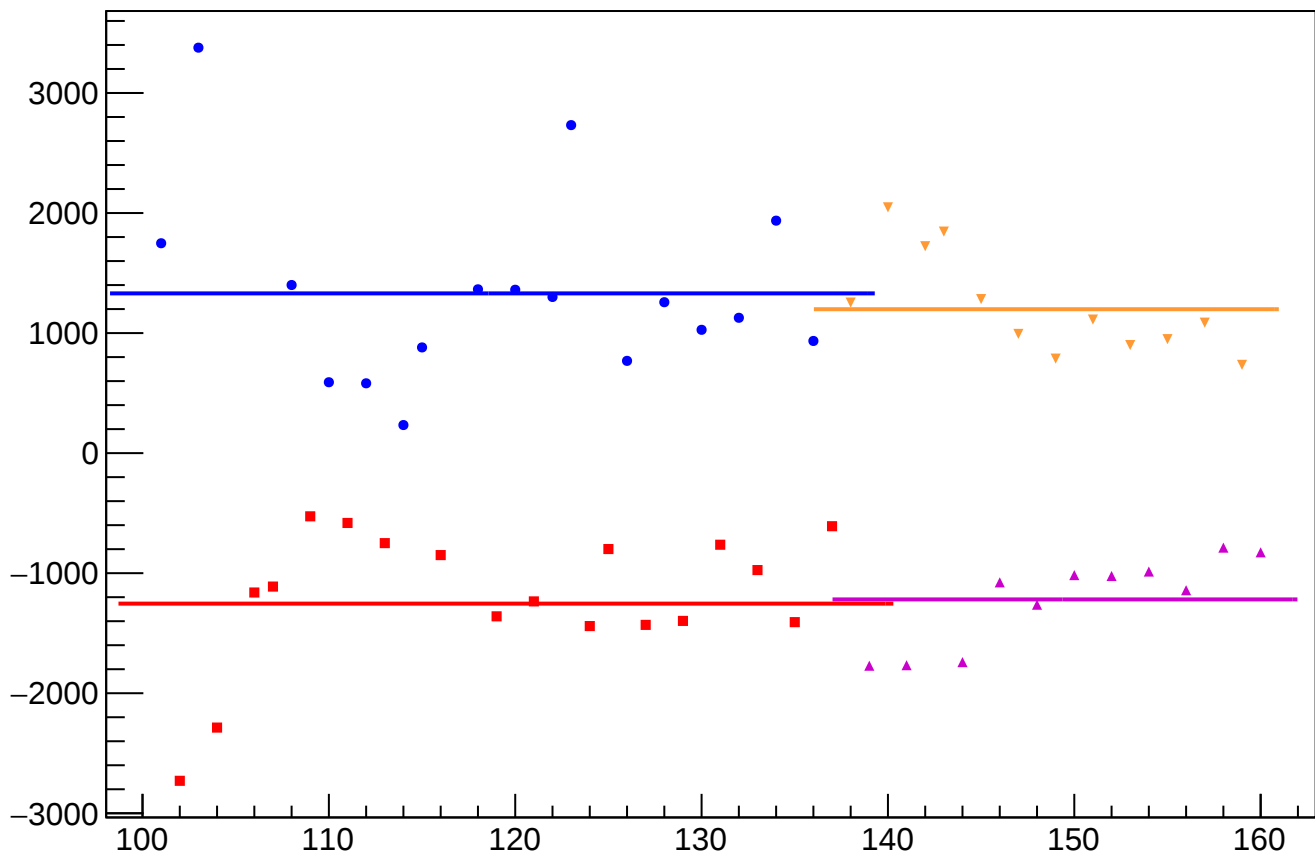
Out: 8999.536 $\pm$ 0.000

$\chi^2$ /NDF: 836230618033201

All: 255.210 $\pm$ 0.000

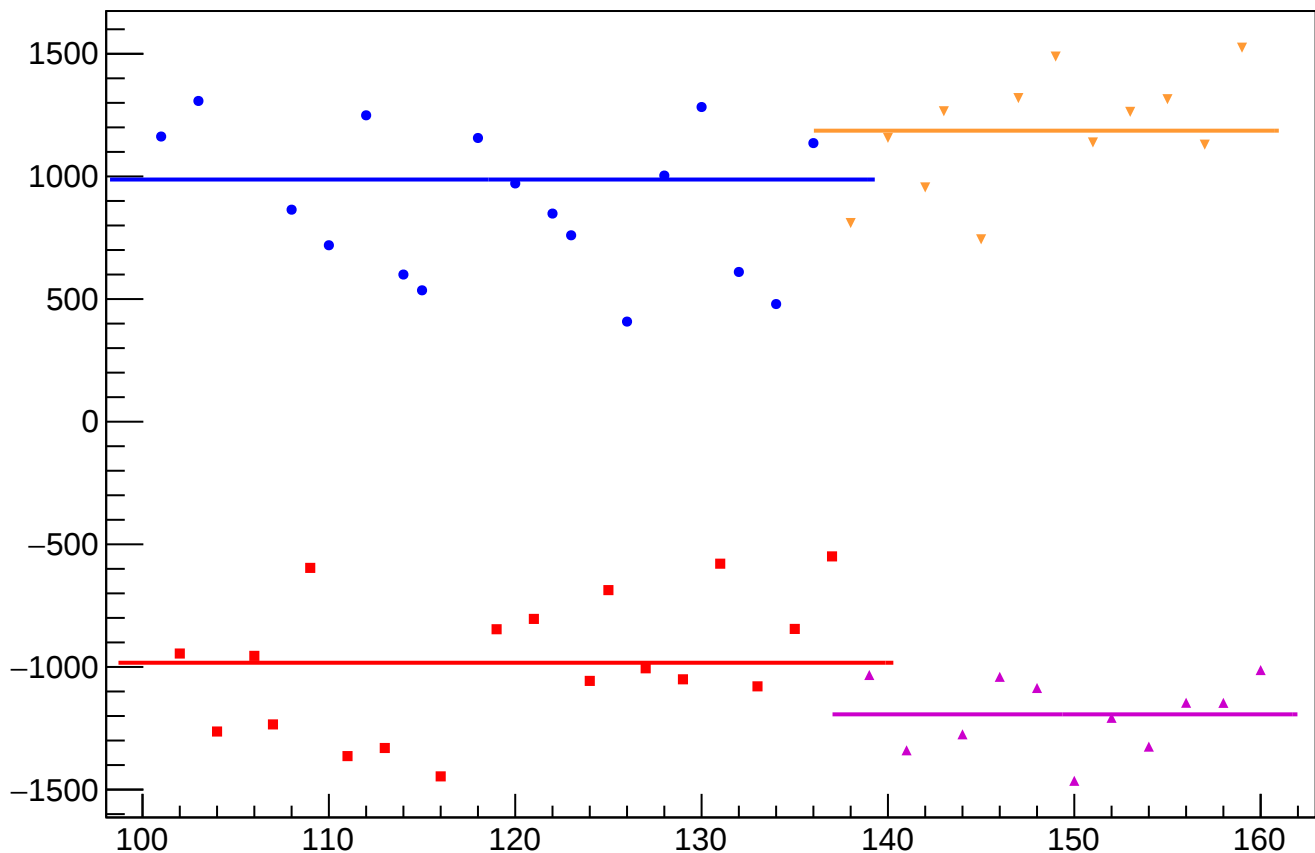
$\chi^2$ /NDF: 191545862718

dit\_sam4\_coil7\_err\_mean vs Slug, Sign Corrected



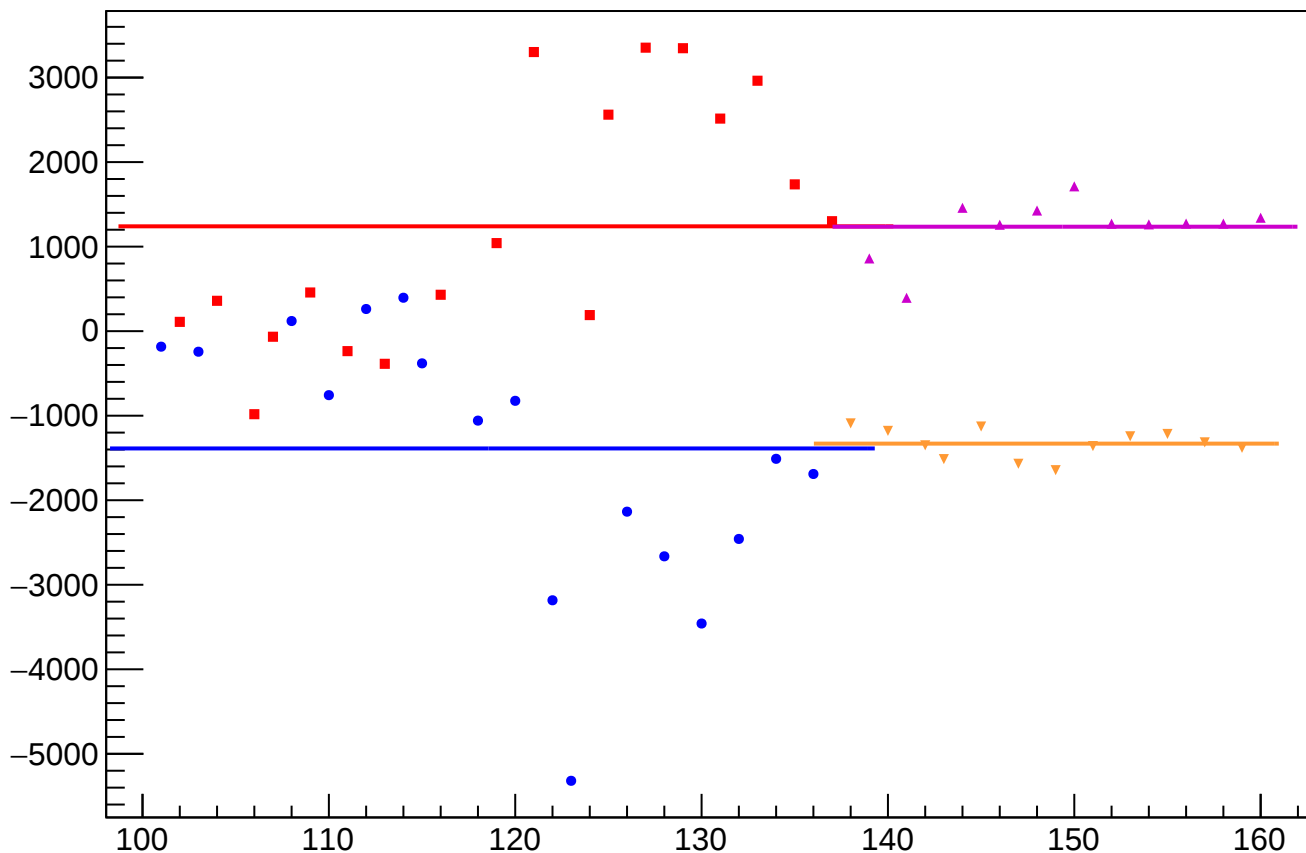
Right In: 1330.668+/-0.000  $\chi^2/\text{NDF}$ : 371034150705348959312326123153556242432.0/16  
 Left Out: 1198.833+/-0.000  $\chi^2/\text{NDF}$ : 149280196072306589418447697644691128320.0/11  
 Right Out: -1253.657+/-0.000  $\chi^2/\text{NDF}$ : 276351047411985398179849131600767877120.0/17  
 Left In: -1218.551+/-0.000  $\chi^2/\text{NDF}$ : 116488756058911306830868466308868997120.0/10  
 All: -6.167+/-0.000  $\chi^2/\text{NDF}$ : 5957409460373

dit\_sam4\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $987.388 \pm 0.000$   $\chi^2/\text{NDF}: 52571386835815299758771040245189181440.0/16$   
 Left Out:  $1186.594 \pm 0.000$   $\chi^2/\text{NDF}: 49763362019555548841298308984106647552.0/11$   
 Right Out:  $-982.831 \pm 0.000$   $\chi^2/\text{NDF}: 48106250951114292454819733992816771072.0/17$   
 Left In:  $-1193.230 \pm 0.000$   $\chi^2/\text{NDF}: 18719715189237327364686937904868491264.0/10$   
 All:  $-16.040 \pm 0.000$   $\chi^2/\text{NDF}: 414386874879$

# dit\_sam5\_coil7\_mean vs Slug, Sign Corrected



Right In: -1387.447+/-0.000

Left Out: -1330.420+/-0.000

Right Out: 1240.179+/-0.000

Left In: 1235.621+/-0.000

$\chi^2/\text{NDF}$ : 1052649963447979198116034562243591929856.0/16

$\chi^2/\text{NDF}$ : 26483457480768378875041680320691699712.0/11

$\chi^2/\text{NDF}$ : 1416369744921748520391717301088168181760.0/17

$\chi^2/\text{NDF}$ : 101175024554514162187059760134266814464.0/10

Left: -30.683+/-0.000  $\chi^2/\text{NDF}$ : 3159337559694203

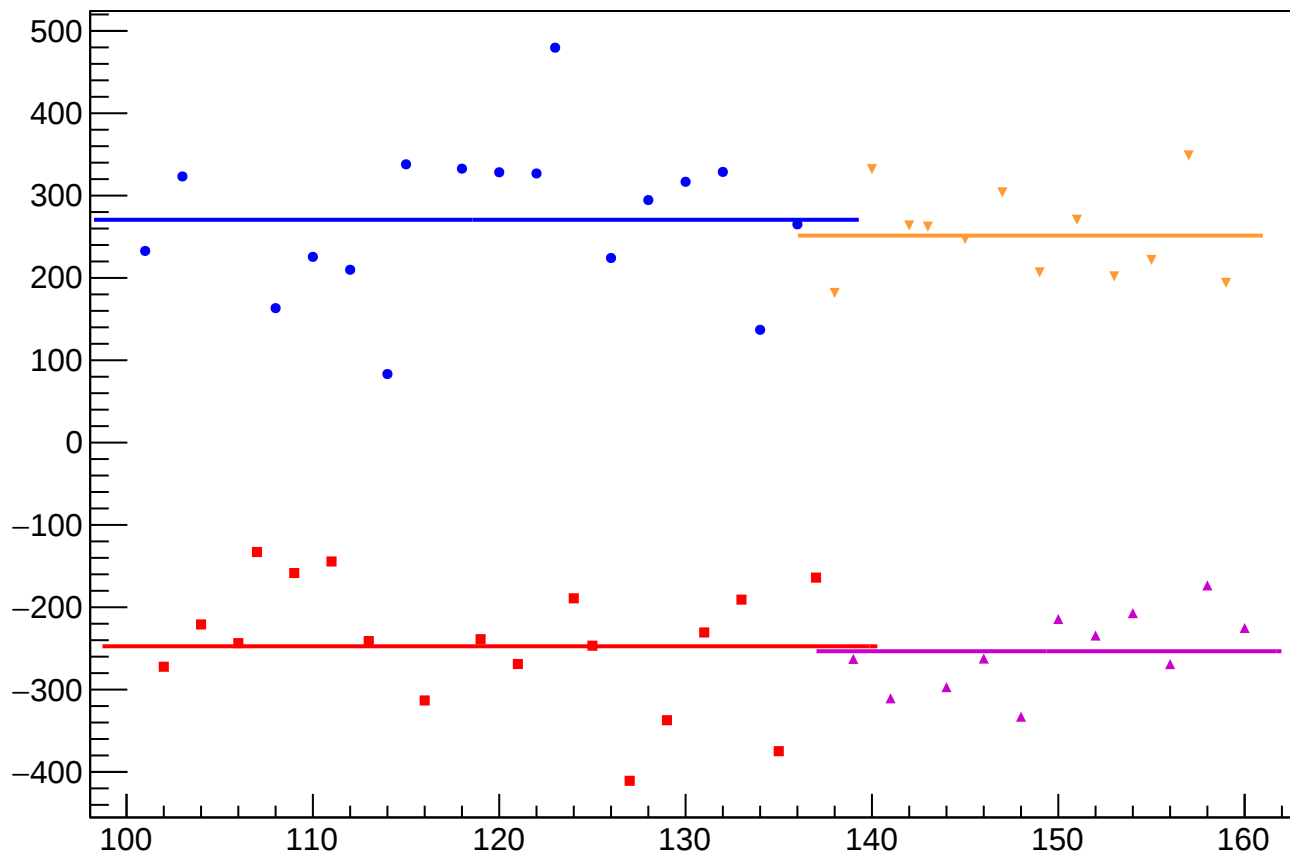
Right: -54.053+/-0.000  $\chi^2/\text{NDF}$ : 490056143046603

In: 116.746+/-0.000  $\chi^2/\text{NDF}$ : 38920726643597010

Out: -198.660+/-0.000  $\chi^2/\text{NDF}$ : 408740909485264

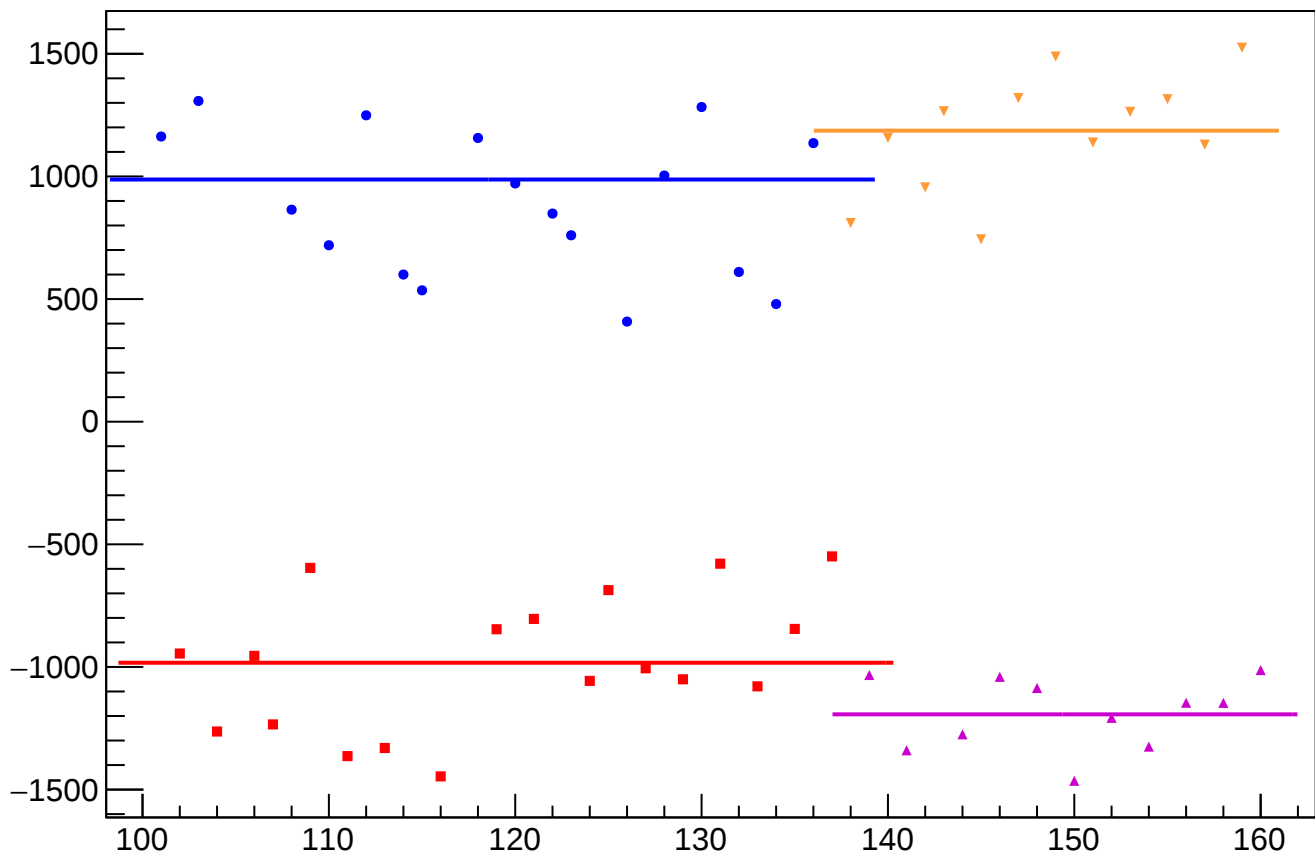
All: -40.811+/-0.000  $\chi^2/\text{NDF}$ : 806033500101

dit\_sam5\_coil7\_err\_mean vs Slug, Sign Corrected



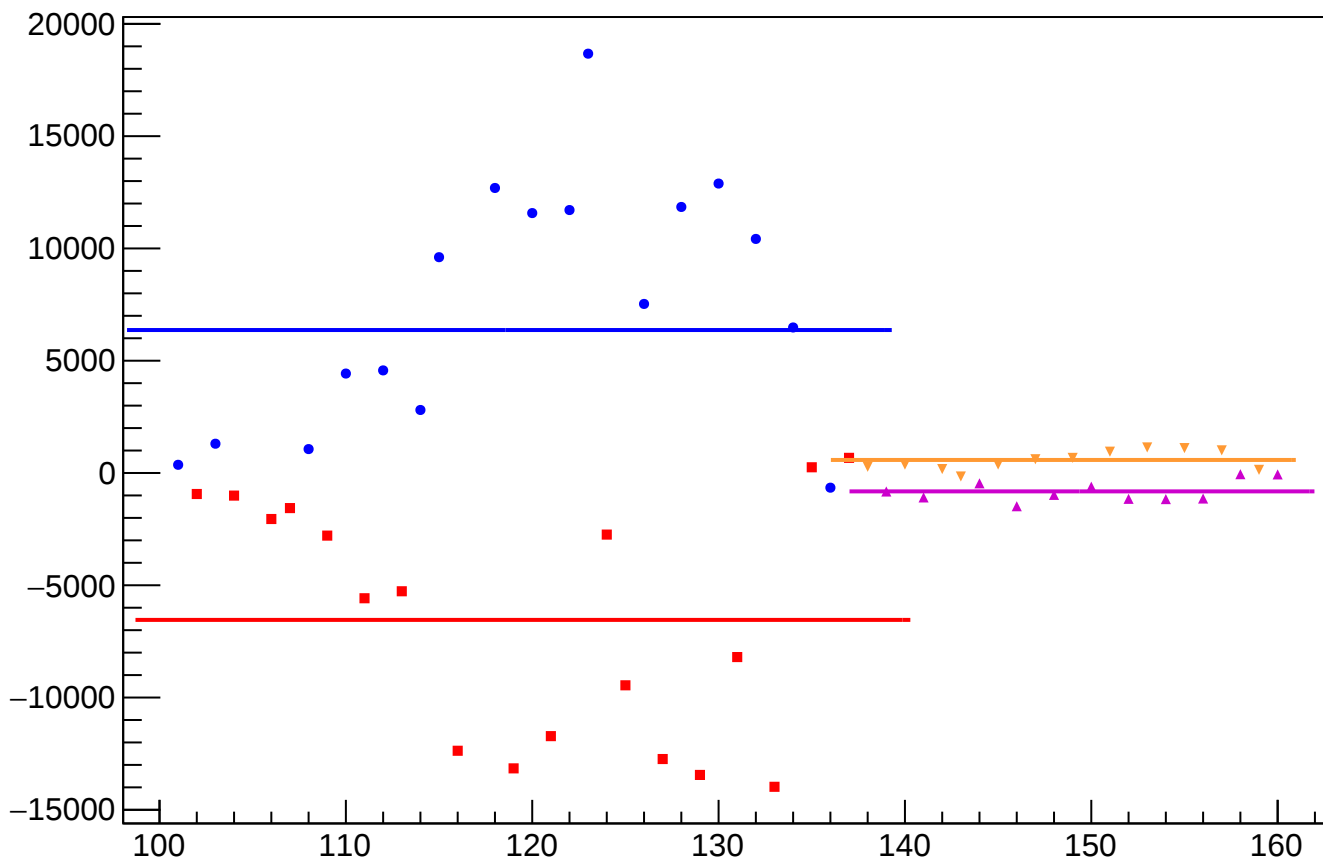
Right In: 270.634 $\pm$ 0.000  $\chi^2$ /NDF: 2782961301444799640631413817001115648.0/16  
 Left Out: 251.431 $\pm$ 0.000  $\chi^2$ /NDF: 2584936508665838554891763249678647296.0/11  
 Right Out: -247.395 $\pm$ 0.000  $\chi^2$ /NDF: 4145415912975495896207578940101885952.0/17  
 Left In: -253.400 $\pm$ 0.000  $\chi^2$ /NDF: 1956558228349454722124070225585373184.0/10  
 All: 0.941 $\pm$ 0.000  $\chi^2$ /NDF: 22343270830260

dit\_sam5\_coil7\_Ndata\_mean vs Slug, Sign Corrected



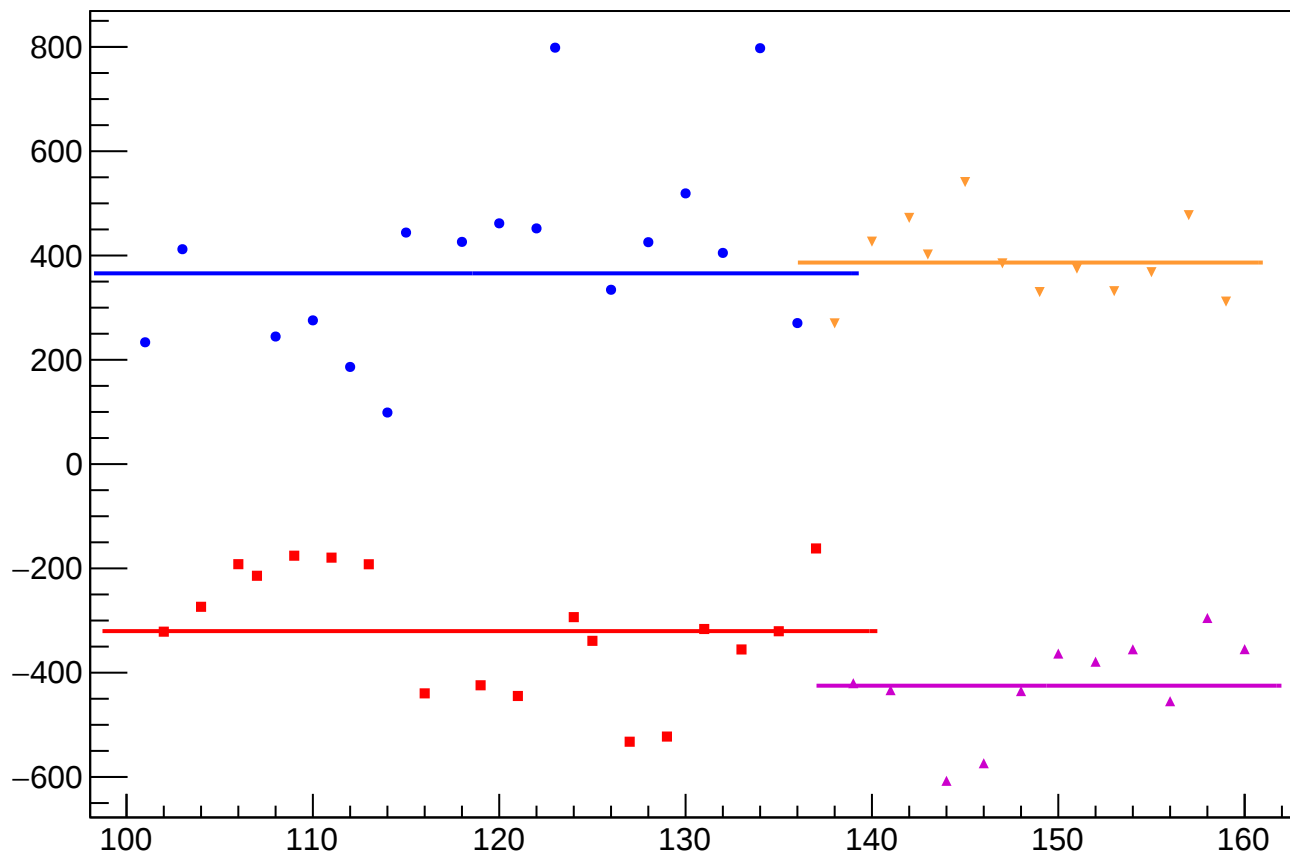
Right In: 987.388 $\pm$ 0.000  $\chi^2$ /NDF: 52571386835815299758771040245189181440.0/16  
 Left Out: 1186.594 $\pm$ 0.000  $\chi^2$ /NDF: 49763362019555548841298308984106647552.0/11  
 Right Out: -982.831 $\pm$ 0.000  $\chi^2$ /NDF: 48106250951114292454819733992816771072.0/17  
 Left In: -1193.230 $\pm$ 0.000  $\chi^2$ /NDF: 18719715189237327364686937904868491264.0/10  
 All: -16.040 $\pm$ 0.000  $\chi^2$ /NDF: 414386874879

# dit\_sam6\_coil7\_mean vs Slug, Sign Corrected



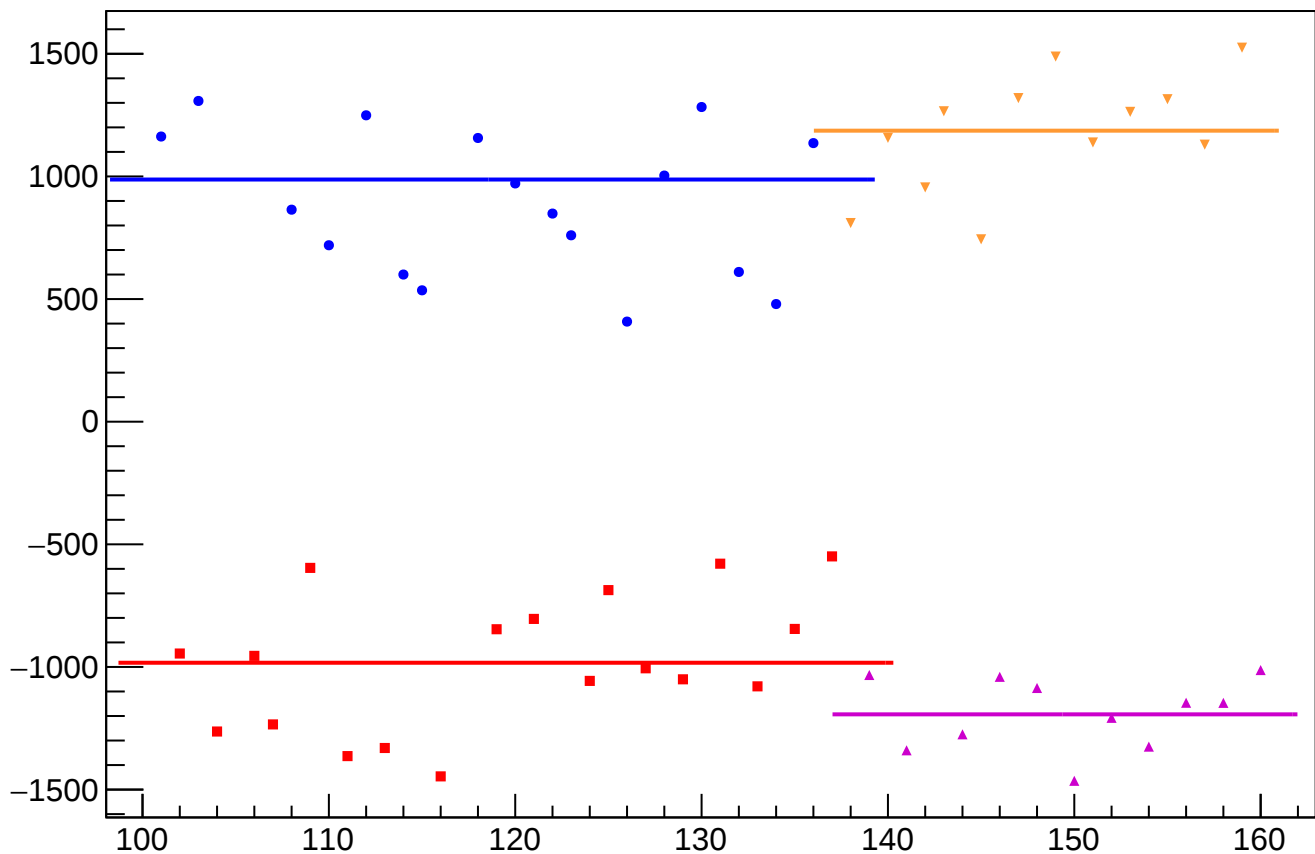
Left: -128.443 +/- 0.000  $\chi^2/\text{NDF}$ : 123207860803939  
 Right In: 6366.506 +/- 0.000  $\chi^2/\text{NDF}$ : 19013791293174950781662205946475975802880.0/16  
 Right: -184.187 +/- 0.000  $\chi^2/\text{NDF}$ : 97470337985705  
 Left Out: 580.460 +/- 0.000  $\chi^2/\text{NDF}$ : 147049020633782369498744411617383940096.0/11  
 In: 2245.928 +/- 0.000  $\chi^2/\text{NDF}$ : 3974551430914154  
 Right Out: -6542.482 +/- 0.000  $\chi^2/\text{NDF}$ : 19769956838076333850932350219813545574400.0/17  
 Out: -2555.564 +/- 0.000  $\chi^2/\text{NDF}$ : 40221991320897  
 Left In: -819.110 +/- 0.000  $\chi^2/\text{NDF}$ : 183157286760955615902217096477246750720.0/10  
 All: -152.603 +/- 0.000  $\chi^2/\text{NDF}$ : 98704897358

dit\_sam6\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $365.806 \pm 0.000$   $\chi^2/\text{NDF}$ : 12360453443474503357525500563004850176.0/16  
 Left Out:  $386.511 \pm 0.000$   $\chi^2/\text{NDF}$ : 5027608774007269972306139885841940480.0/11  
 Right Out:  $-320.284 \pm 0.000$   $\chi^2/\text{NDF}$ : 9463966273350706118112483440542613504.0/17  
 Left In:  $-424.949 \pm 0.000$   $\chi^2/\text{NDF}$ : 7621452352927450037498346719559024640.0/10  
 All:  $-6.236 \pm 0.000$   $\chi^2/\text{NDF}$ : 5048392112381

dit\_sam6\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left: -18.822+/-0.000  $\chi^2/\text{NDF}$ : 2676111842139268

Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

Left Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

In: -263.084+/-0.000  $\chi^2/\text{NDF}$ : 1963690344467940

Right Out: -982.831+/-0.000

$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

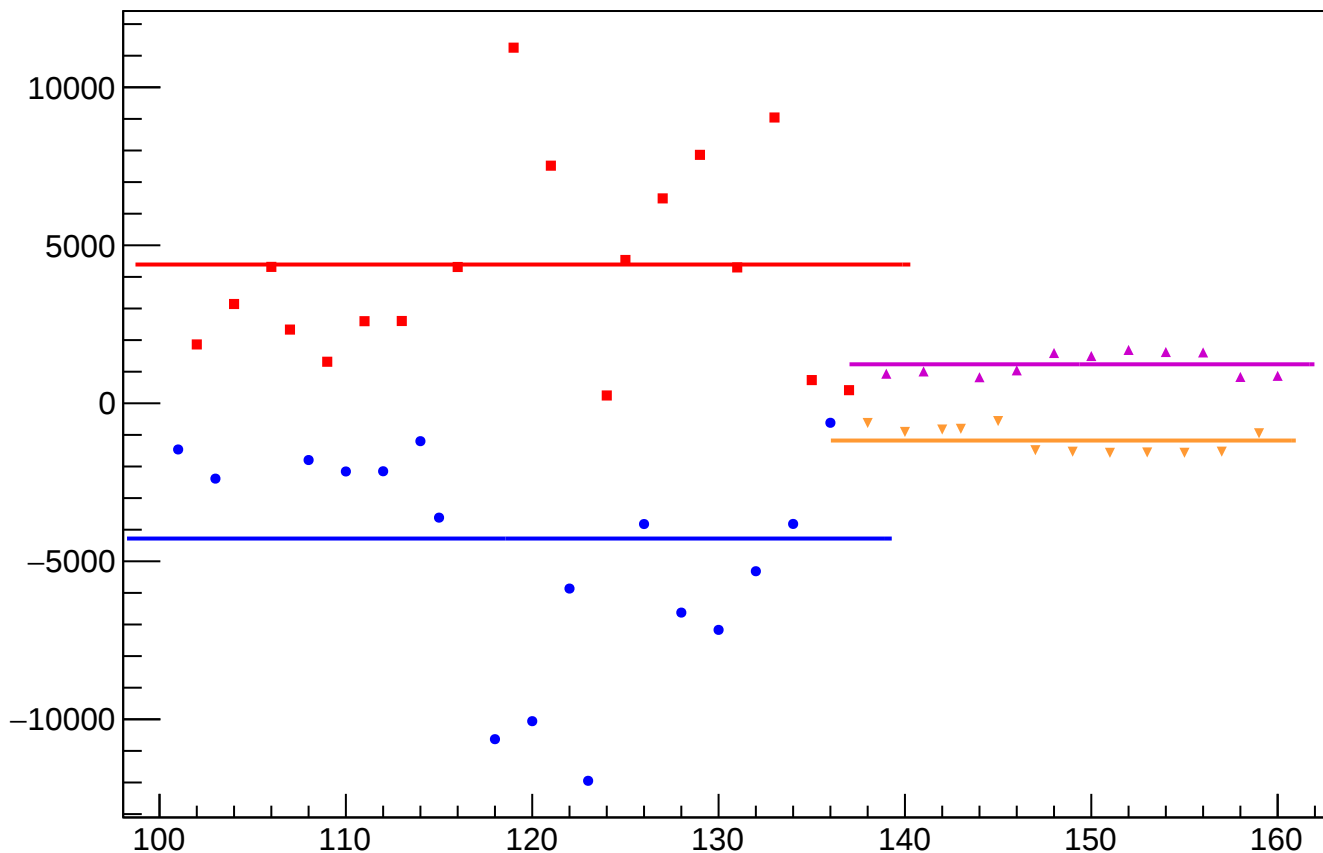
Out: 231.459+/-0.000  $\chi^2/\text{NDF}$ : 1981402088557405

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

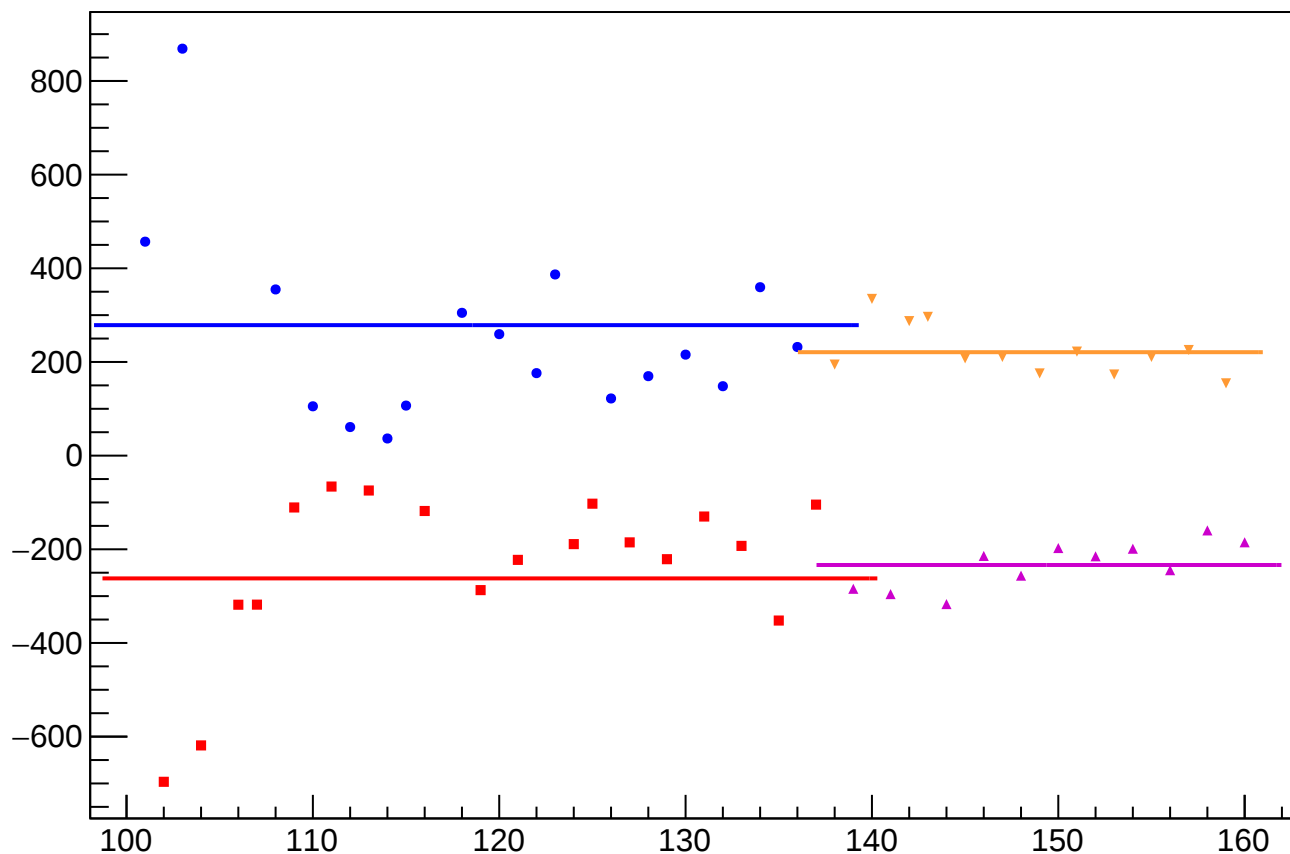
All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_sam7\_coil7\_mean vs Slug, Sign Corrected



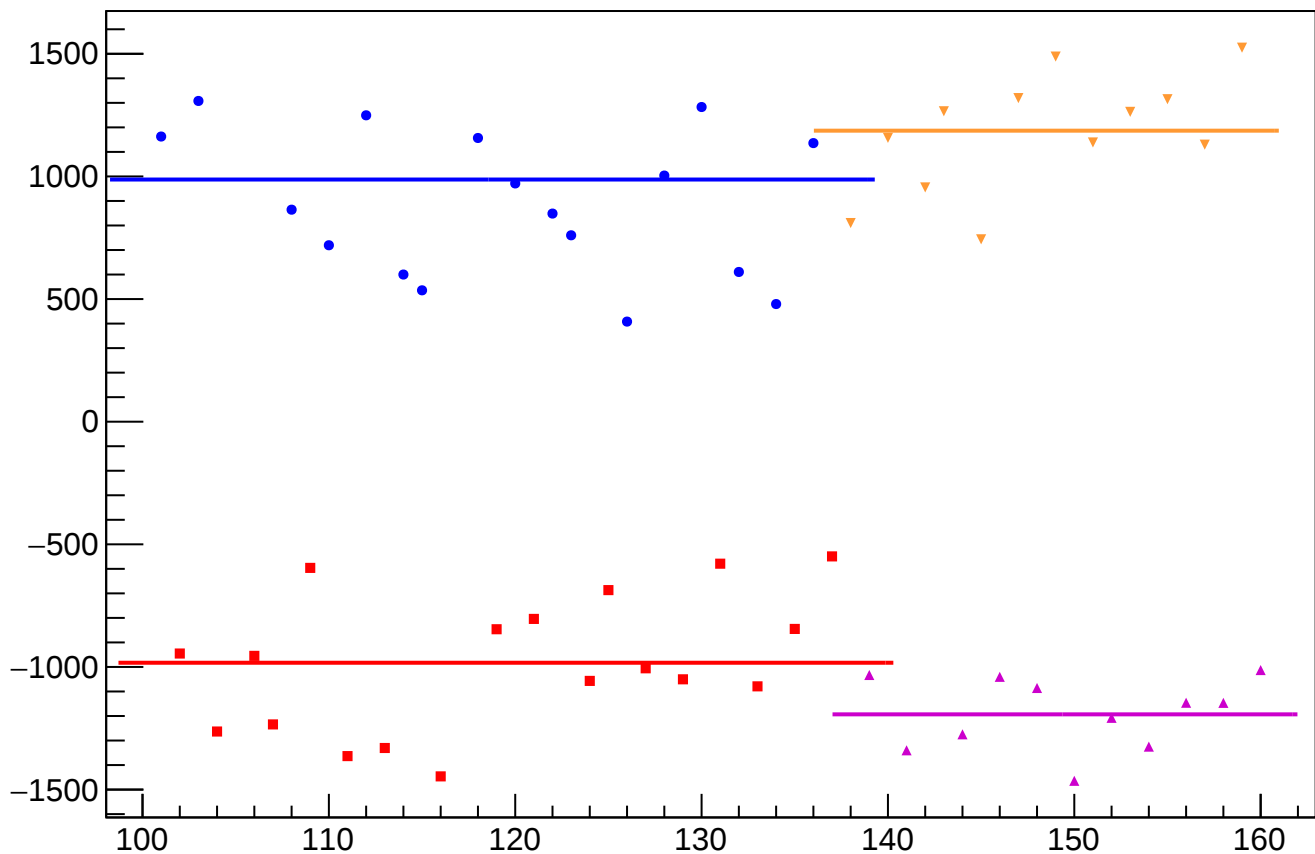
Right In: -4279.824+/-0.000  $\chi^2/\text{NDF}$ : 6998436131465727751461675089449726246912.0/16  
 Left Out: -1178.229+/-0.000  $\chi^2/\text{NDF}$ : 141473895084928360538242951996197830656.0/11  
 Right Out: 4391.806+/-0.000  $\chi^2/\text{NDF}$ : 7013803733920665719163942153165454966784.0/17  
 Left In: 1234.217+/-0.000  $\chi^2/\text{NDF}$ : 113222953765781340341469389402247528448.0/10  
 All: 77.040+/-0.000  $\chi^2/\text{NDF}$ : 4343358856524

dit\_sam7\_coil7\_err\_mean vs Slug, Sign Corrected



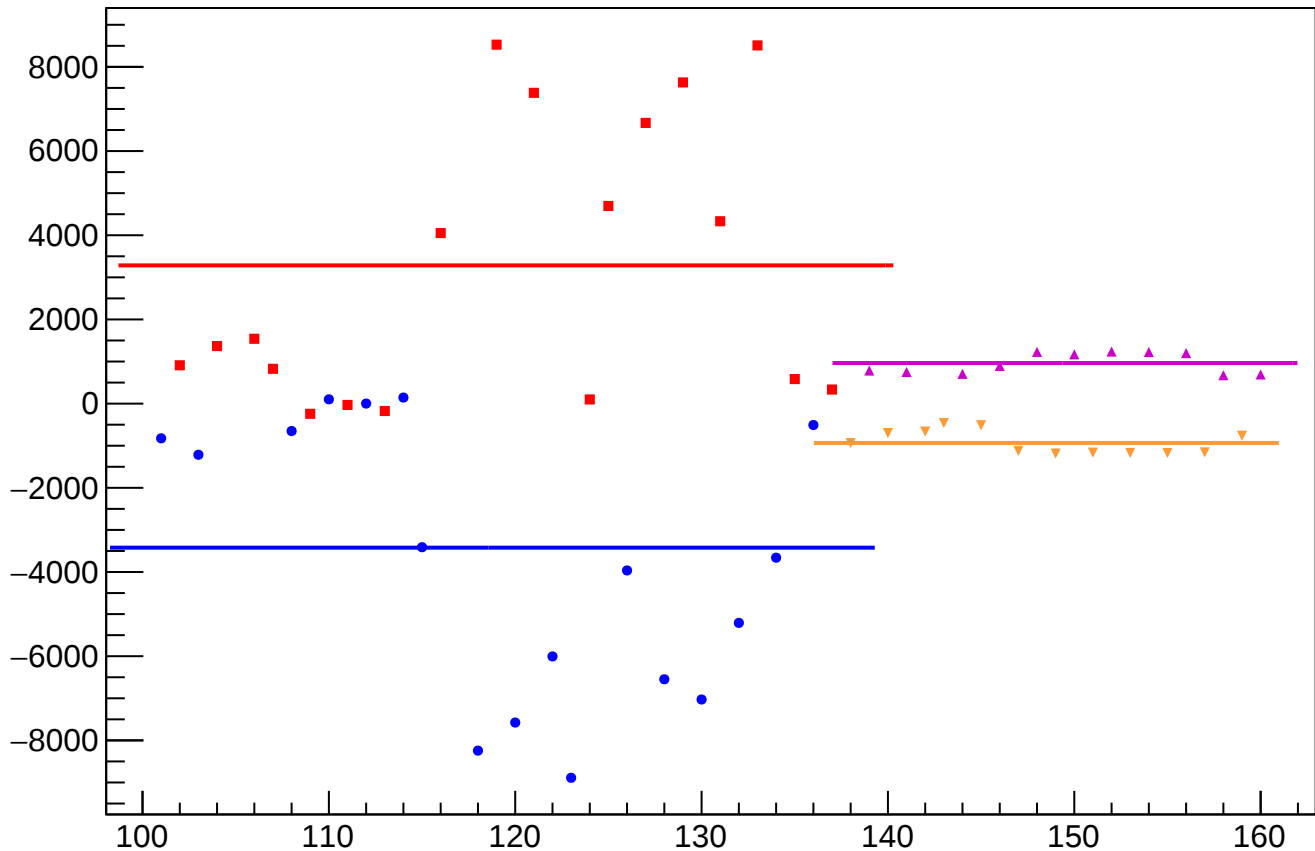
Right In: 278.633+/-0.000  $\chi^2/\text{NDF}$ : 30524296265206738304048515708883042304.0/16  
 Left Out: 220.880+/-0.000  $\chi^2/\text{NDF}$ : 2451153402301458952205629704112177152.0/11  
 Right Out: -262.162+/-0.000  $\chi^2/\text{NDF}$ : 25748645086335087770789028222868652032.0/17  
 Left In: -233.520+/-0.000  $\chi^2/\text{NDF}$ : 2135124077253807192462629940293009408.0/10  
 All: -3.435+/-0.000  $\chi^2/\text{NDF}$ : 2590679569370

dit\_sam7\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $987.388 \pm 0.000$   $\chi^2/\text{NDF}: 52571386835815299758771040245189181440.0/16$   
 Left Out:  $1186.594 \pm 0.000$   $\chi^2/\text{NDF}: 49763362019555548841298308984106647552.0/11$   
 Right Out:  $-982.831 \pm 0.000$   $\chi^2/\text{NDF}: 48106250951114292454819733992816771072.0/17$   
 Left In:  $-1193.230 \pm 0.000$   $\chi^2/\text{NDF}: 18719715189237327364686937904868491264.0/10$   
 All:  $-16.040 \pm 0.000$   $\chi^2/\text{NDF}: 414386874879$

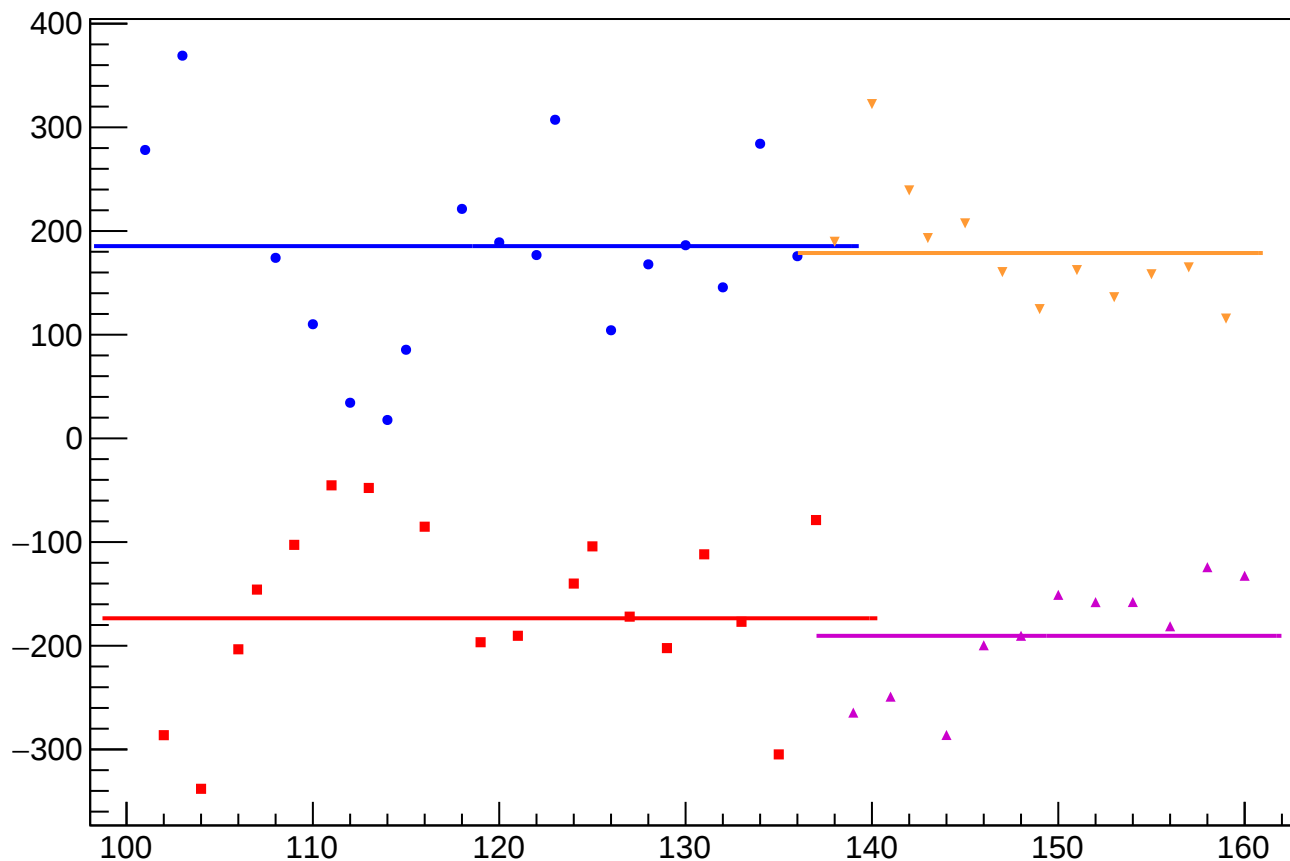
# dit\_sam8\_coil7\_mean vs Slug, Sign Corrected



Left: 27.648 $\pm$ 0.000  $\chi^2$ /NDF: 17760271131271719  
 Right: -18.697 $\pm$ 0.000  $\chi^2$ /NDF: 301207331793136  
 In: 906.432 $\pm$ 0.000  $\chi^2$ /NDF: 1417112247304554  
 Out: 923.244 $\pm$ 0.000  $\chi^2$ /NDF: 1500650014022729  
 All: 7.562 $\pm$ 0.000  $\chi^2$ /NDF: 31898475032999

Right In: -3421.719 $\pm$ 0.000  $\chi^2$ /NDF: 6462112736004972779572658363986020925440.0/16  
 Left Out: -933.972 $\pm$ 0.000  $\chi^2$ /NDF: 64192639419401528934807333255243628544.0/11  
 Right Out: 3284.376 $\pm$ 0.000  $\chi^2$ /NDF: 7820854185595313728450757047863572692992.0/17  
 Left In: 964.532 $\pm$ 0.000  $\chi^2$ /NDF: 52328346838047917935593162774962765824.0/10

dit\_sam8\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $185.440 \pm 0.000$

$\chi^2/NDF: 4992999881975997017558054599194050560.0/16$

Left Out:  $178.789 \pm 0.000$

$\chi^2/NDF: 2761846974558217365203652056992186368.0/11$

Right Out:  $-173.513 \pm 0.000$

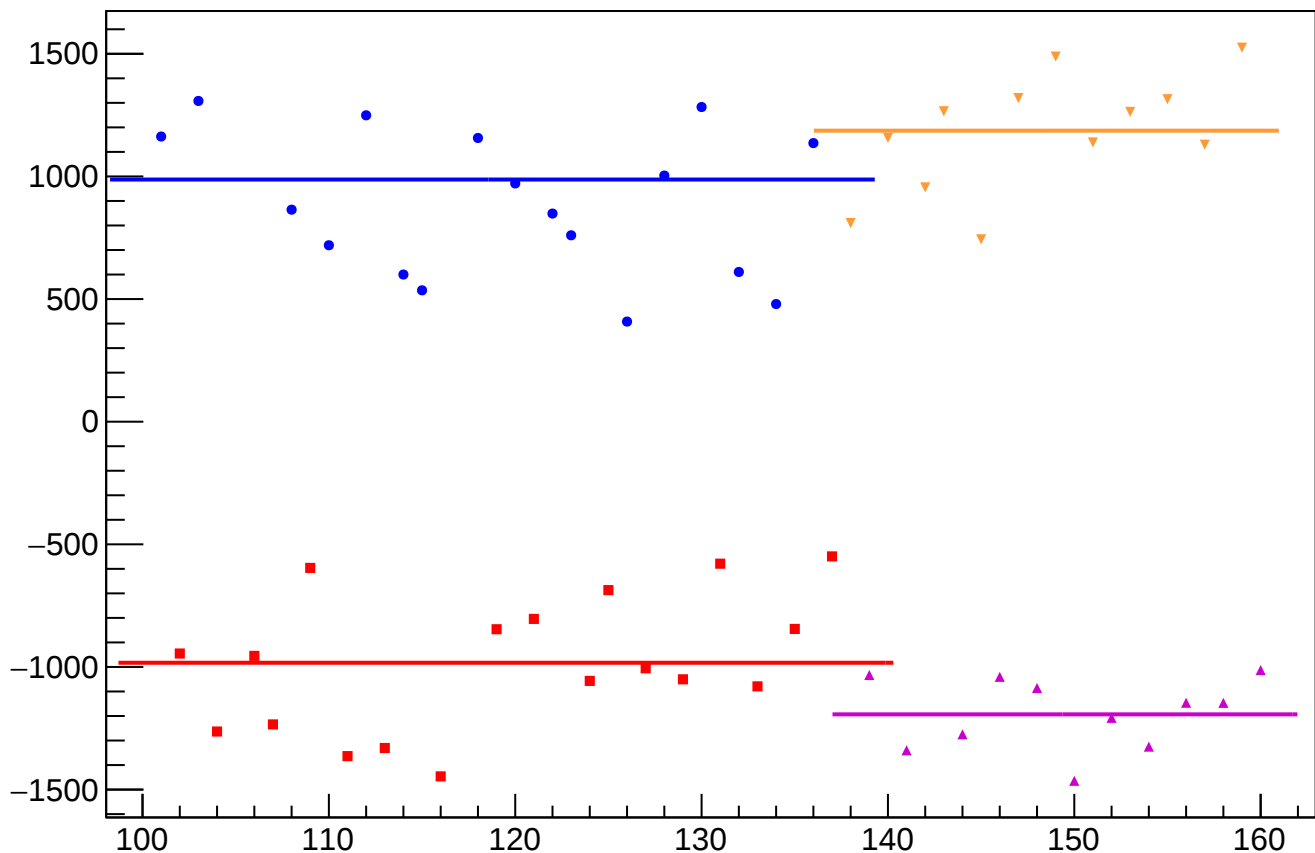
$\chi^2/NDF: 5476704825855084602521292305195859968.0/17$

Left In:  $-190.431 \pm 0.000$

$\chi^2/NDF: 2526907691148920878217594844913598464.0/10$

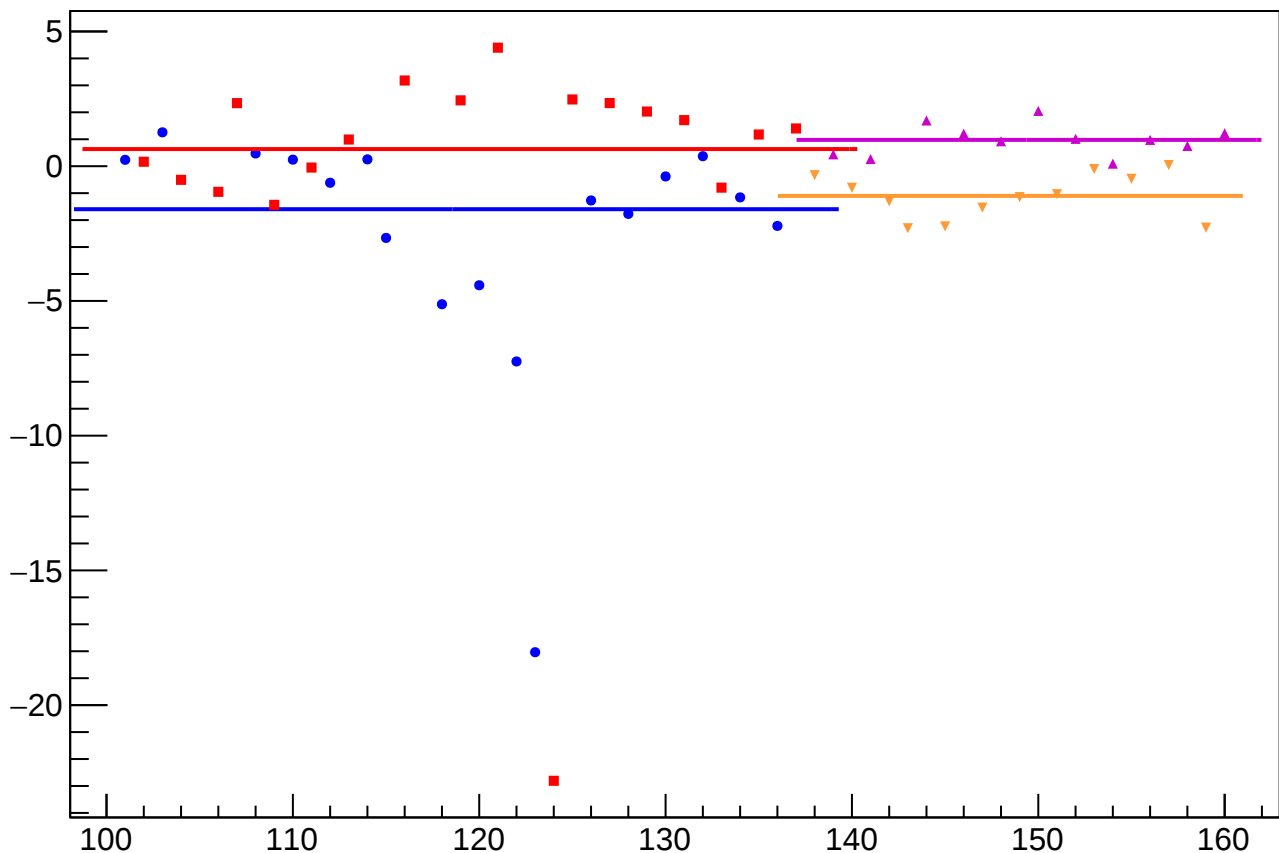
All:  $-3.236 \pm 0.000$   $\chi^2/NDF: 1240070542970$

dit\_sam8\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $987.388 \pm 0.000$   $\chi^2/\text{NDF}: 52571386835815299758771040245189181440.0/16$   
 Left Out:  $1186.594 \pm 0.000$   $\chi^2/\text{NDF}: 49763362019555548841298308984106647552.0/11$   
 Right Out:  $-982.831 \pm 0.000$   $\chi^2/\text{NDF}: 48106250951114292454819733992816771072.0/17$   
 Left In:  $-1193.230 \pm 0.000$   $\chi^2/\text{NDF}: 18719715189237327364686937904868491264.0/10$   
 All:  $-16.040 \pm 0.000$   $\chi^2/\text{NDF}: 414386874879$

dit\_4aX\_coil4\_mean vs Slug, Sign Corrected



Right In: -1.596+/-0.000

$\chi^2/\text{NDF}$ : 4654807928359892398673617982849024.0/16

Left Out: -1.102+/-0.000

$\chi^2/\text{NDF}$ : 592180467002513566987832570937344.0/11

Right Out: 0.636+/-0.000

$\chi^2/\text{NDF}$ : 9571048295343482409580772007608320.0/17

Left In: 0.977+/-0.000

$\chi^2/\text{NDF}$ : 300890397650119639347670720446464.0/10

Left: -0.049+/-0.000  $\chi^2/\text{NDF}$ : 28826478277952612

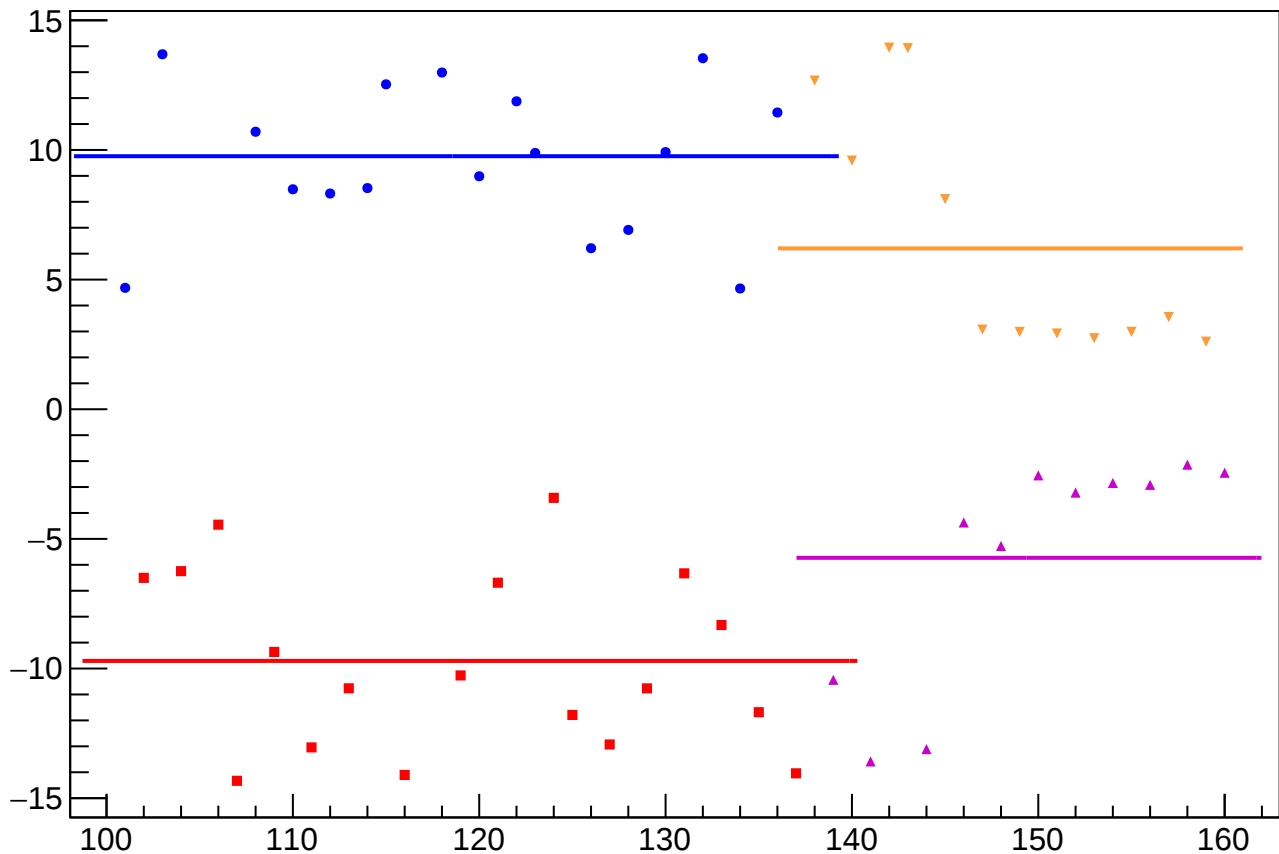
Right: -0.463+/-0.000  $\chi^2/\text{NDF}$ : 1597994140254711

In: -0.121+/-0.000  $\chi^2/\text{NDF}$ : 758966812196380194

Out: -0.337+/-0.000  $\chi^2/\text{NDF}$ : 11371937227369047

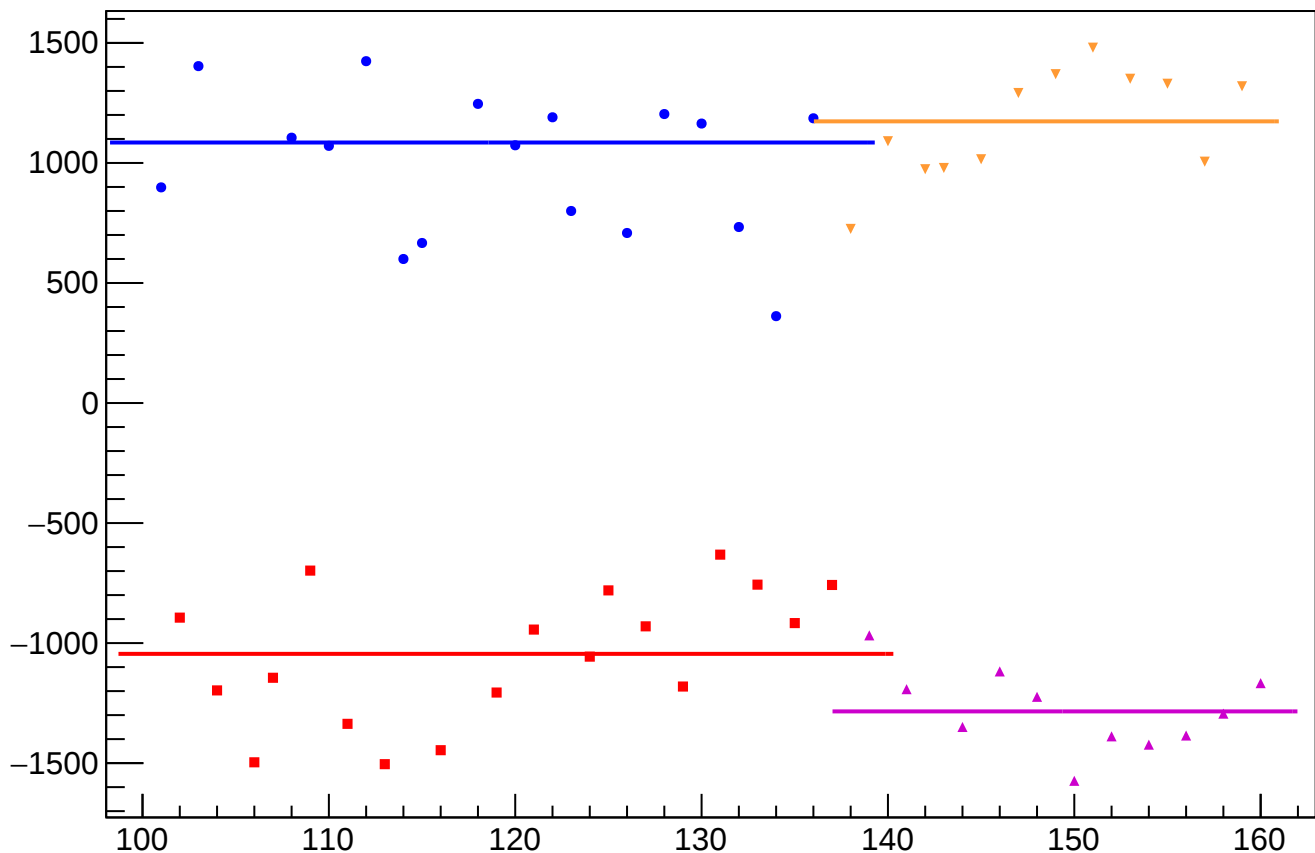
All: -0.229+/-0.000  $\chi^2/\text{NDF}$ : 1899961310160

dit\_4aX\_coil4\_err\_mean vs Slug, Sign Corrected



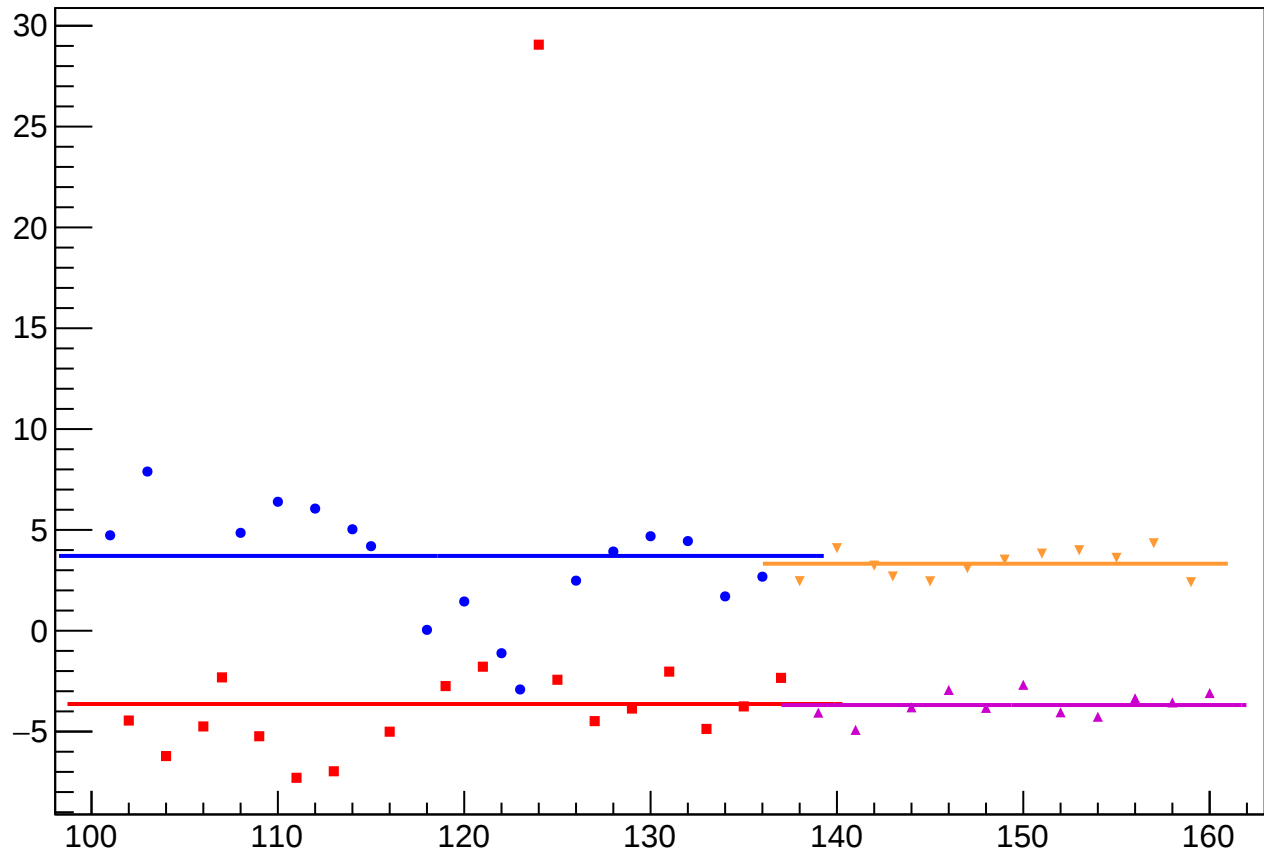
Right In:  $9.759 \pm 0.000$   $\chi^2/\text{NDF}$ : 5805218601264248923404355625811968.0/16  
 Left Out:  $6.204 \pm 0.000$   $\chi^2/\text{NDF}$ : 17109991032954173502313359403384832.0/11  
 Right Out:  $-9.706 \pm 0.000$   $\chi^2/\text{NDF}$ : 6508390621050403360774220706480128.0/17  
 Left In:  $-5.730 \pm 0.000$   $\chi^2/\text{NDF}$ : 16834211139985692030618150983696384.0/10  
 All:  $0.039 \pm 0.000$   $\chi^2/\text{NDF}$ : 24531816908963

dit\_4aX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



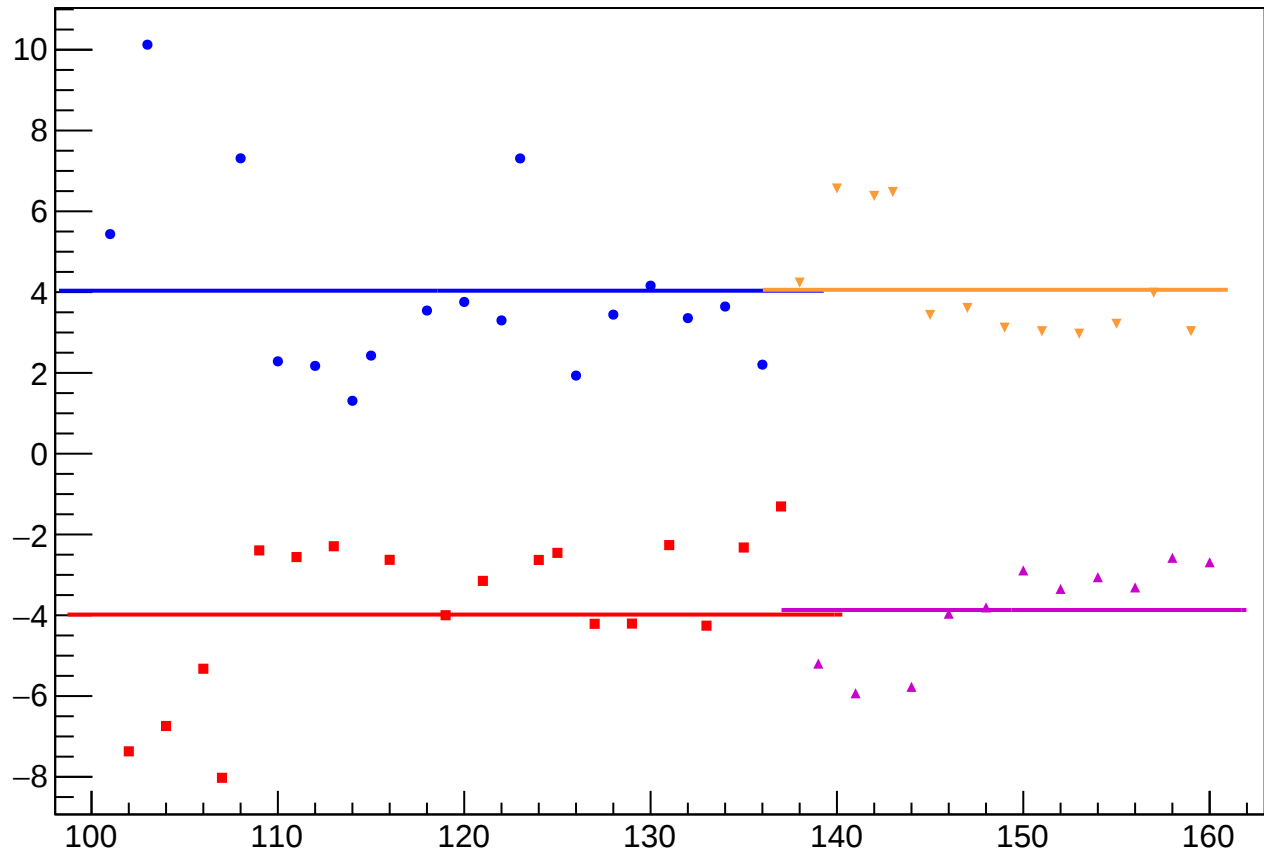
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_4eX\_coil4\_mean vs Slug, Sign Corrected



Right In:  $3.709 \pm 0.000$   $\chi^2/\text{NDF}: 4018102777172229540031969661812736.0/16$   
 Left Out:  $3.324 \pm 0.000$   $\chi^2/\text{NDF}: 408662092507009780807820497649664.0/11$   
 Right Out:  $-3.634 \pm 0.000$   $\chi^2/\text{NDF}: 17179706396424887783373227094441984.0/17$   
 Left In:  $-3.684 \pm 0.000$   $\chi^2/\text{NDF}: 362171161596980472614323696435200.0/10$   
 All:  $-0.135 \pm 0.000$   $\chi^2/\text{NDF}: 6360532498866$

dit\_4eX\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 4.035 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 3710399284586297338090254185267200.0/16

Left Out: 4.057 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 1601757414873361873208521558851584.0/11

Right Out: -3.983 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 2613925353133608323825730446163968.0/17

Left In: -3.869 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 127275025204235909562227723665408.0/10

Left: 0.042 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 318036590084985990

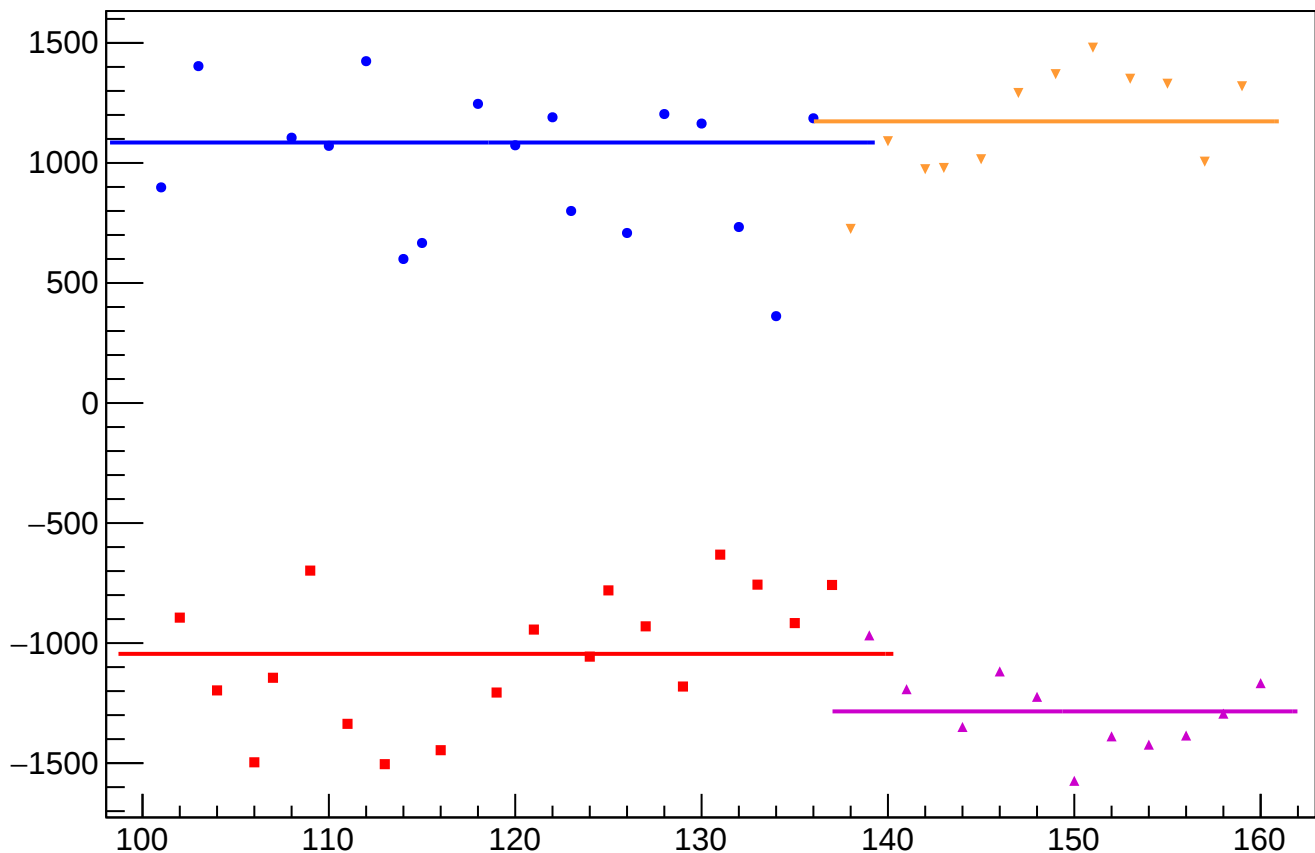
Right: -0.034 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2896164909760269

In: -0.498 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 298470622744878101

Out: 0.518 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 300849190851869307

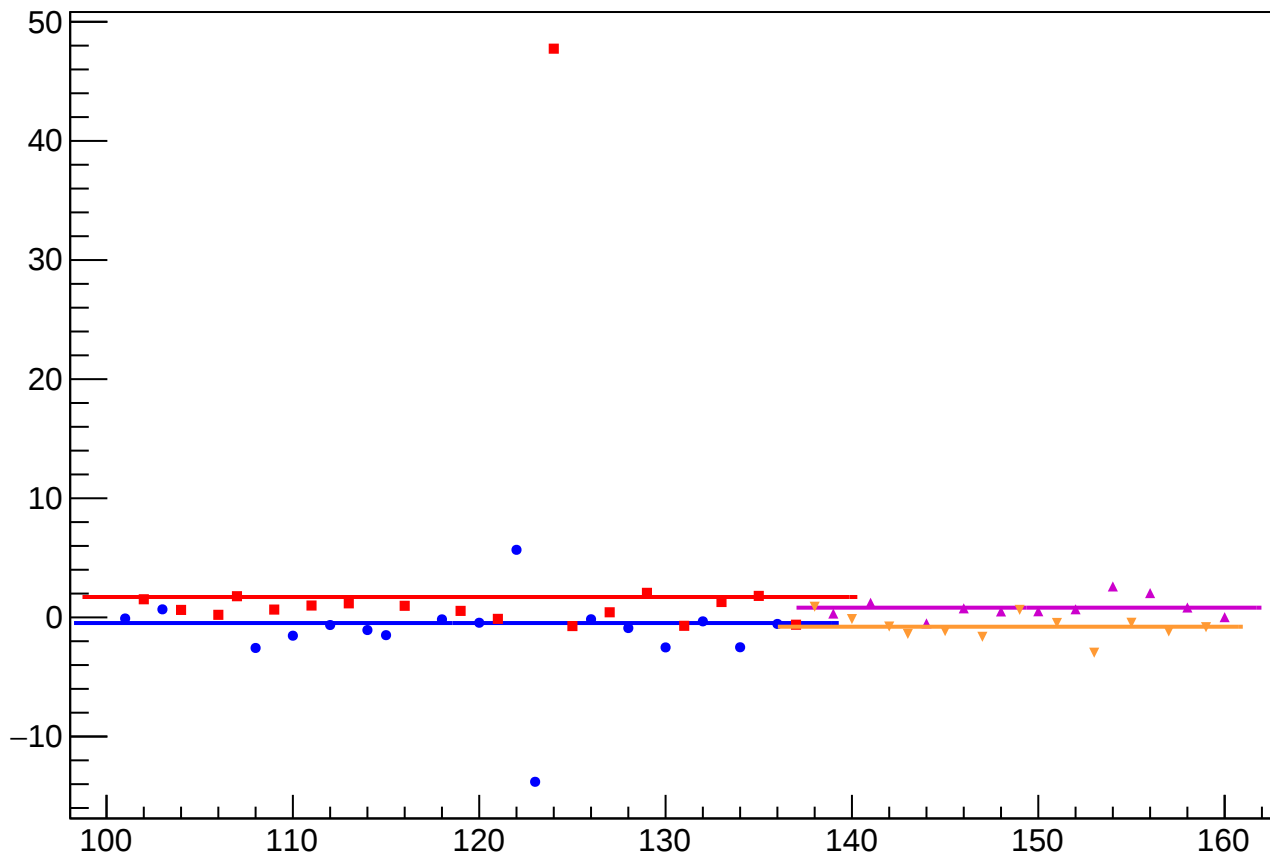
All: 0.009 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 60769913153660

dit\_4eX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



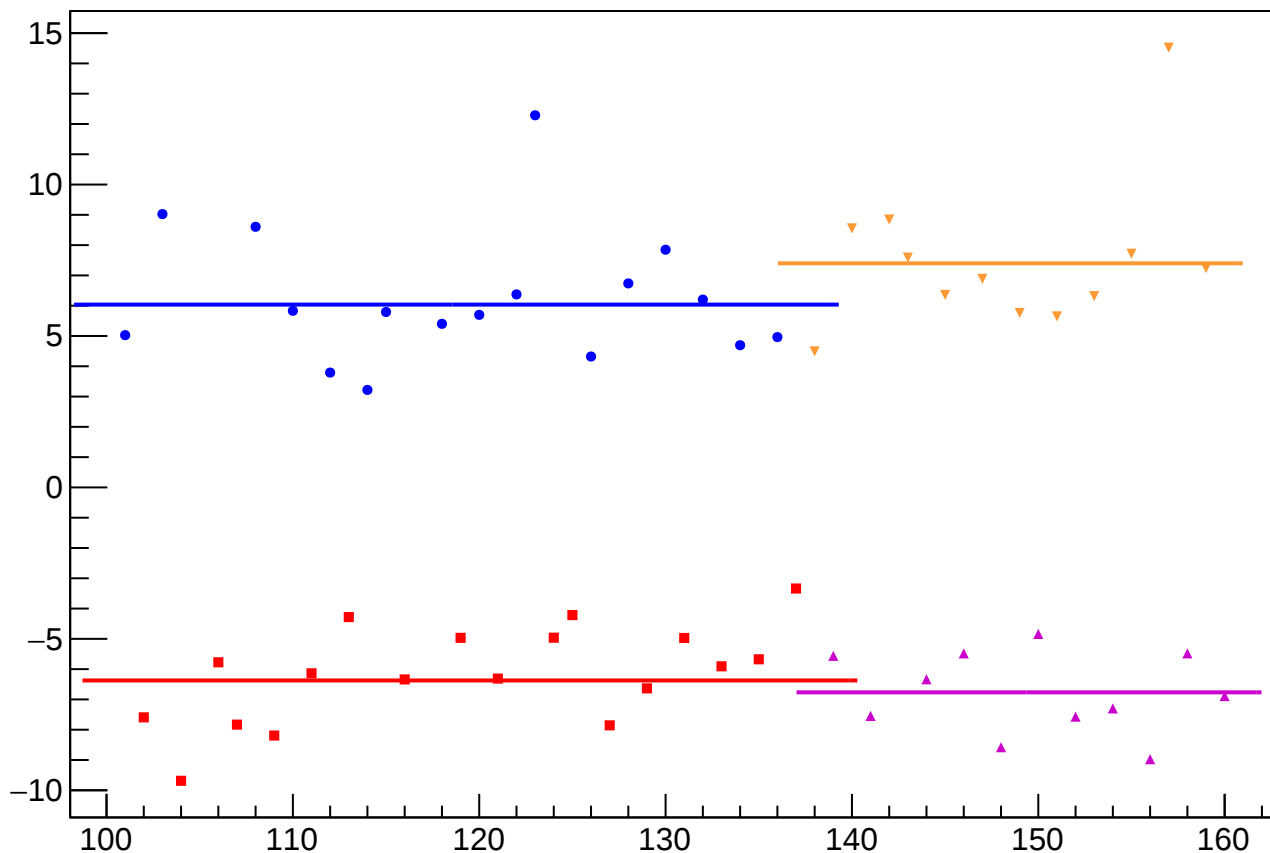
Right In: 1085.186 +/- 0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287 +/- 0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852 +/- 0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540 +/- 0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729 +/- 0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_11X12X\_coil4\_mean vs Slug, Sign Corrected



Right In:  $-0.473 \pm 0.000$   $\chi^2/\text{NDF}: 2898613024888316123890745518063616.0/16$   
 Left Out:  $-0.782 \pm 0.000$   $\chi^2/\text{NDF}: 945280645994518900934494480498688.0/11$   
 Right Out:  $1.712 \pm 0.000$   $\chi^2/\text{NDF}: 30716645280339484063089556715470848.0/17$   
 Left In:  $0.816 \pm 0.000$   $\chi^2/\text{NDF}: 662056853644750883685234129240064.0/10$   
 All:  $0.291 \pm 0.000$   $\chi^2/\text{NDF}: 38376365142967$

dit\_11X12X\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 6.036+/-0.000

$\chi^2/\text{NDF}$ : 1834282168572363767997793128415232.0/16

Left Out: 7.400+/-0.000

$\chi^2/\text{NDF}$ : 5295448681829047225809354325229568.0/11

Right Out: -6.374+/-0.000

$\chi^2/\text{NDF}$ : 1775962730889931898255737308053504.0/17

Left In: -6.766+/-0.000

$\chi^2/\text{NDF}$ : 1543455485673800968010090913202176.0/10

Left: 0.225+/-0.000  $\chi^2/\text{NDF}$ : 992365681268421828

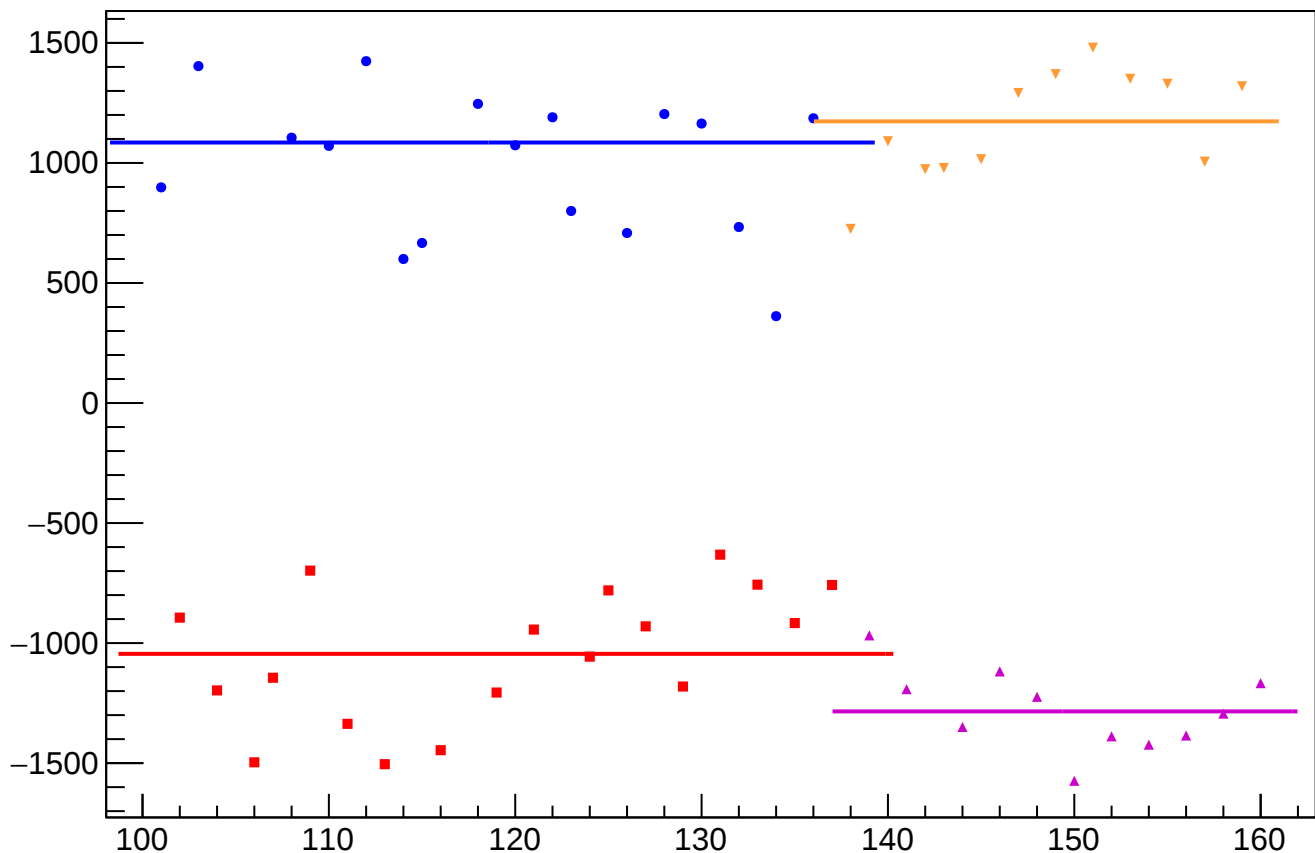
Right: -0.261+/-0.000  $\chi^2/\text{NDF}$ : 5784895299969528

In: -1.305+/-0.000  $\chi^2/\text{NDF}$ : 686045511468165147

Out: 1.336+/-0.000  $\chi^2/\text{NDF}$ : 830007043475067766

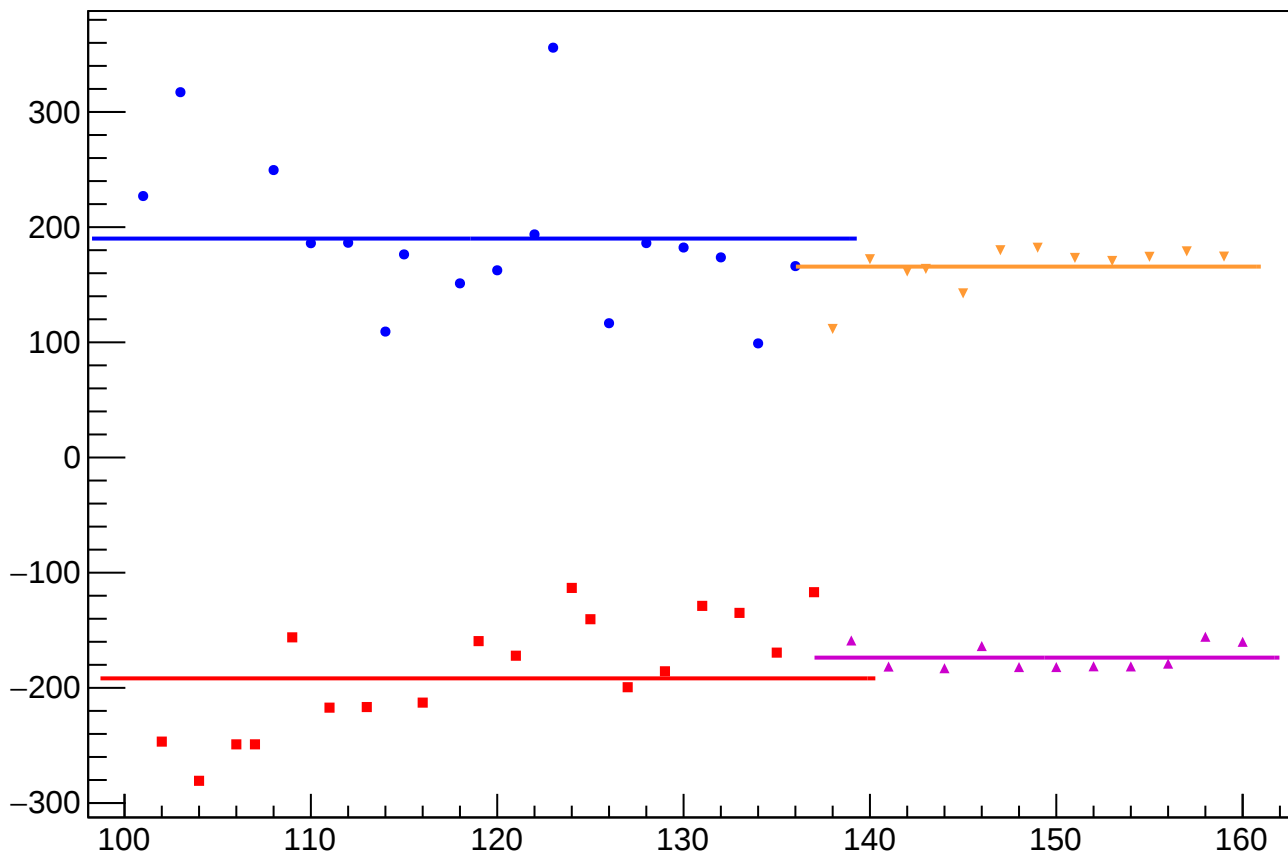
All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 15727417011550

dit\_11X12X\_coil4\_Ndata\_mean vs Slug, Sign Corrected



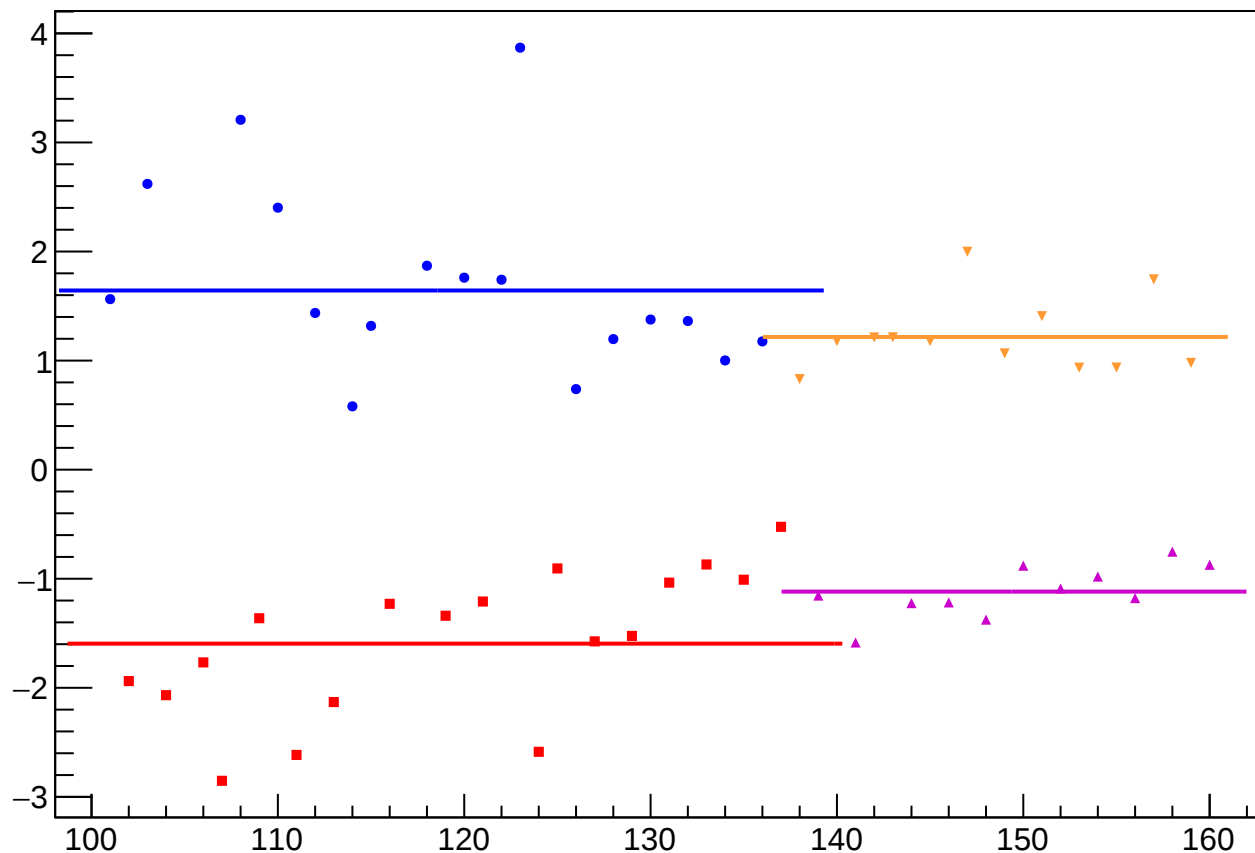
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_4aY\_coil4\_mean vs Slug, Sign Corrected



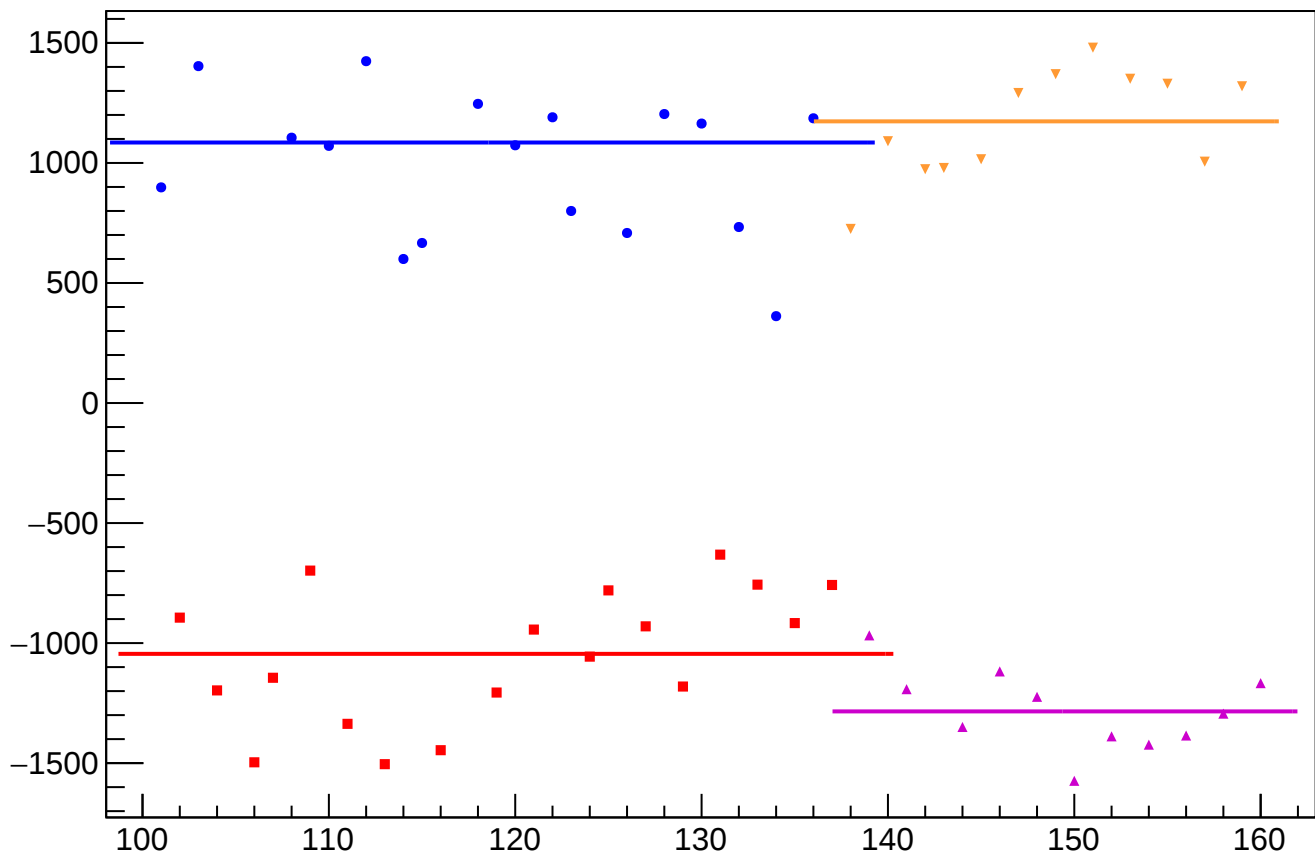
Right In:  $190.085 \pm 0.000$   $\chi^2/\text{NDF}: 1925698803891151227234396073587900416.0/16$   
 Left Out:  $165.739 \pm 0.000$   $\chi^2/\text{NDF}: 344682497656901428032567062567059456.0/11$   
 Right Out:  $-191.757 \pm 0.000$   $\chi^2/\text{NDF}: 1600653754892471682568282524337831936.0/17$   
 Left In:  $-173.752 \pm 0.000$   $\chi^2/\text{NDF}: 105283442852130720199037078170763264.0/10$   
 All:  $-5.119 \pm 0.000$   $\chi^2/\text{NDF}: 1083947156669$

dit\_4aY\_coil4\_err\_mean vs Slug, Sign Corrected



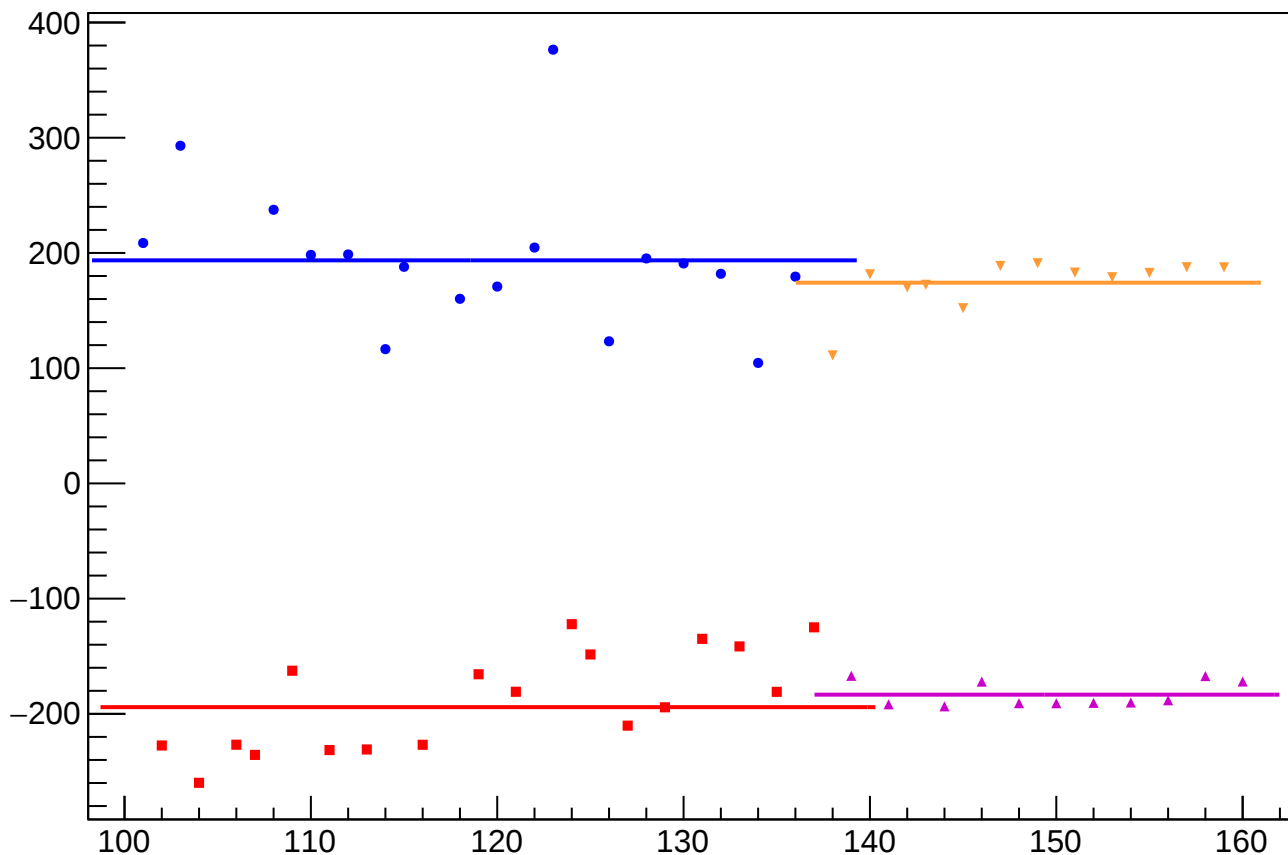
Right In:  $1.643 \pm 0.000$   $\chi^2/\text{NDF}: 289253300871261454870716449030144.0/16$   
 Left Out:  $1.217 \pm 0.000$   $\chi^2/\text{NDF}: 102394613447491283246123057152000.0/11$   
 Right Out:  $-1.595 \pm 0.000$   $\chi^2/\text{NDF}: 253487865182855947655895326916608.0/17$   
 Left In:  $-1.118 \pm 0.000$   $\chi^2/\text{NDF}: 49044430342731068780186328629248.0/10$   
 All:  $0.019 \pm 0.000$   $\chi^2/\text{NDF}: 68970144318089$

dit\_4aY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



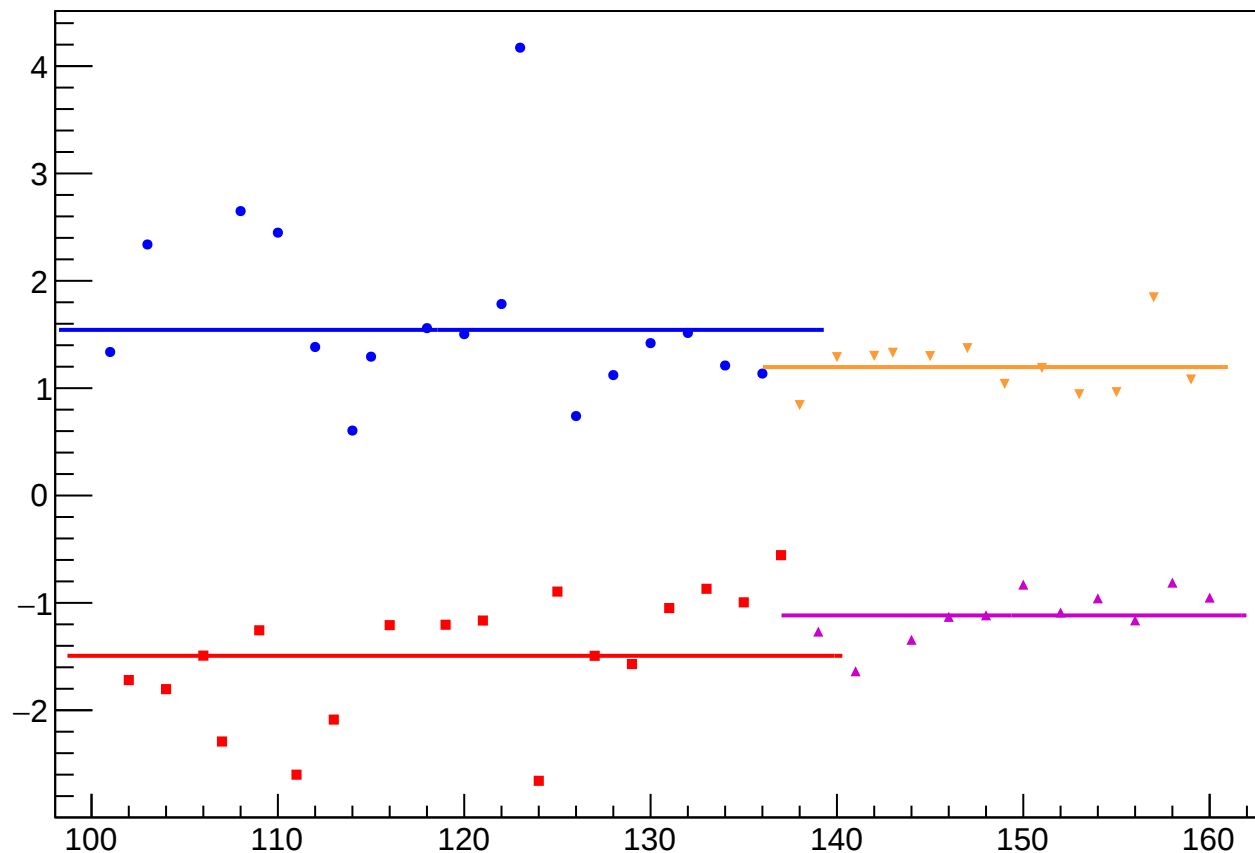
Right In: 1085.186 +/- 0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287 +/- 0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852 +/- 0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540 +/- 0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729 +/- 0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_4eY\_coil4\_mean vs Slug, Sign Corrected



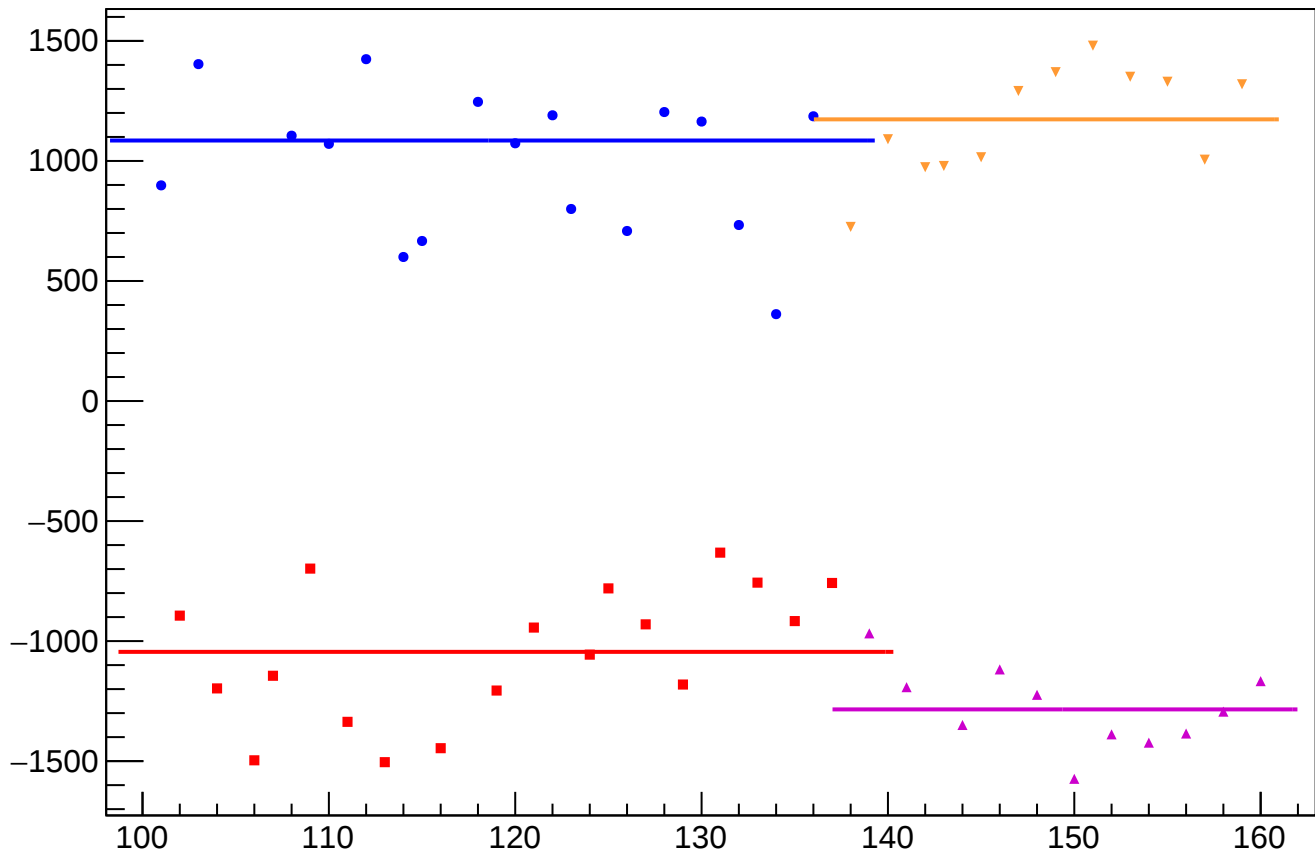
Right In:  $193.573 \pm 0.000$   $\chi^2/\text{NDF}: 1351064334288465855493252395600707584.0/16$   
 Left Out:  $174.198 \pm 0.000$   $\chi^2/\text{NDF}: 435157803959110752164132199015120896.0/11$   
 Right Out:  $-194.177 \pm 0.000$   $\chi^2/\text{NDF}: 1137351144016205804609551236362928128.0/17$   
 Left In:  $-183.338 \pm 0.000$   $\chi^2/\text{NDF}: 99283390921198074748427132624437248.0/10$   
 All:  $-5.292 \pm 0.000$   $\chi^2/\text{NDF}: 1148391836793$

# dit\_4eY\_coil4\_err\_mean vs Slug, Sign Corrected



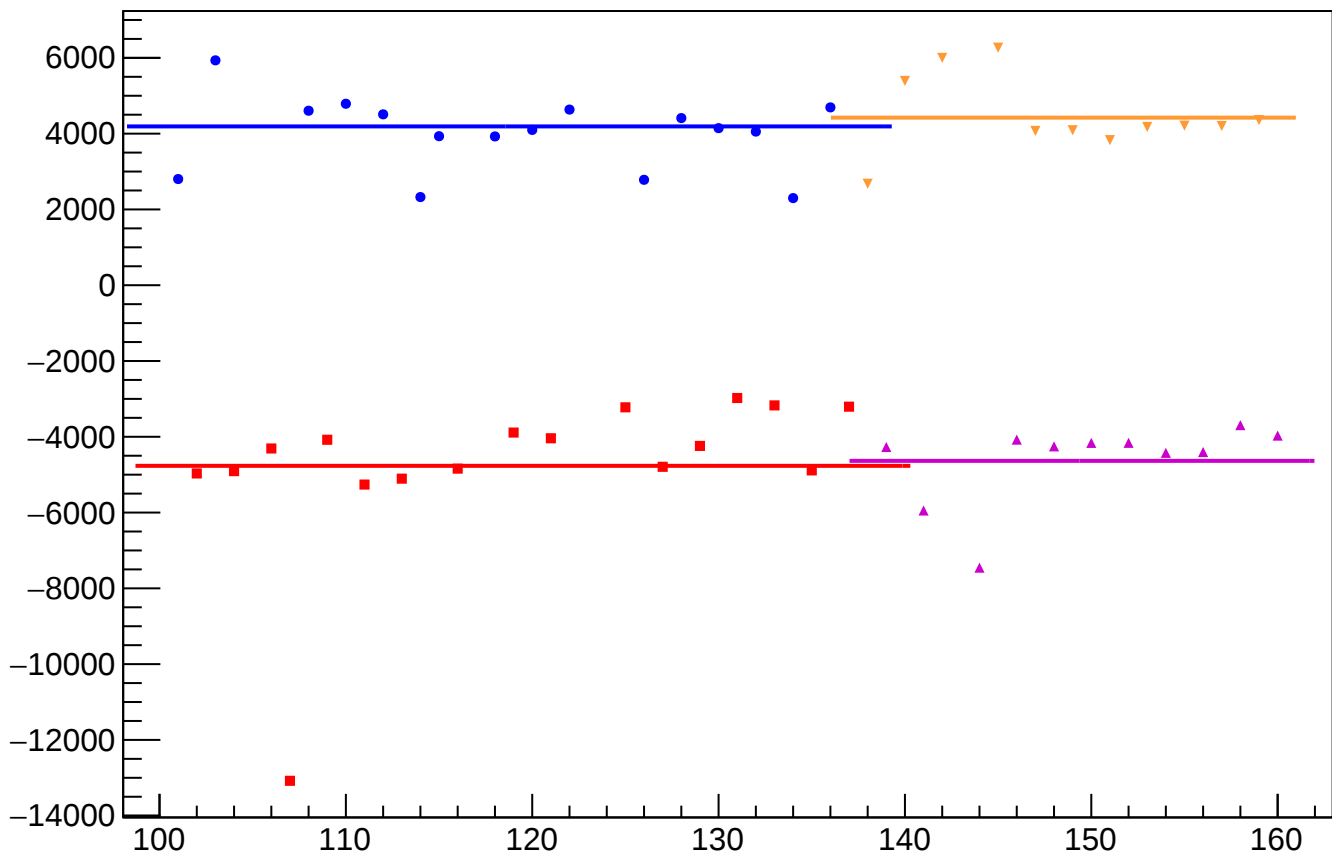
Right In: 1.543+/-0.000  $\chi^2/\text{NDF}$ : 211470615756148398389395258867712.0/16  
 Left Out: 1.197+/-0.000  $\chi^2/\text{NDF}$ : 59586654303702490446710865657856.0/11  
 Right Out: -1.493+/-0.000  $\chi^2/\text{NDF}$ : 198853919603996729553220305682432.0/17  
 Left In: -1.117+/-0.000  $\chi^2/\text{NDF}$ : 49235563214758682247299927638016.0/10  
 All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 62302324533540

dit\_4eY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



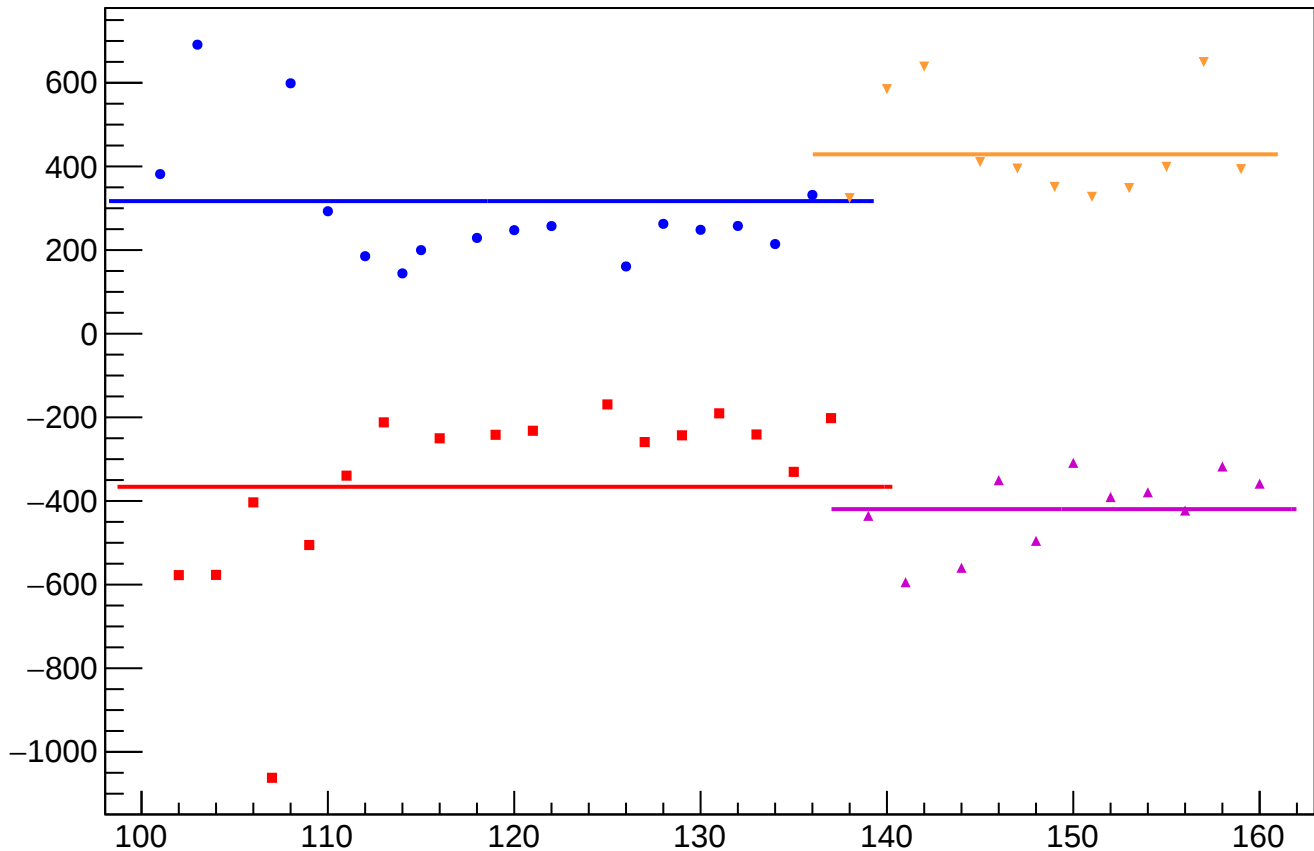
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_usl\_coil4\_mean vs Slug, Sign Corrected



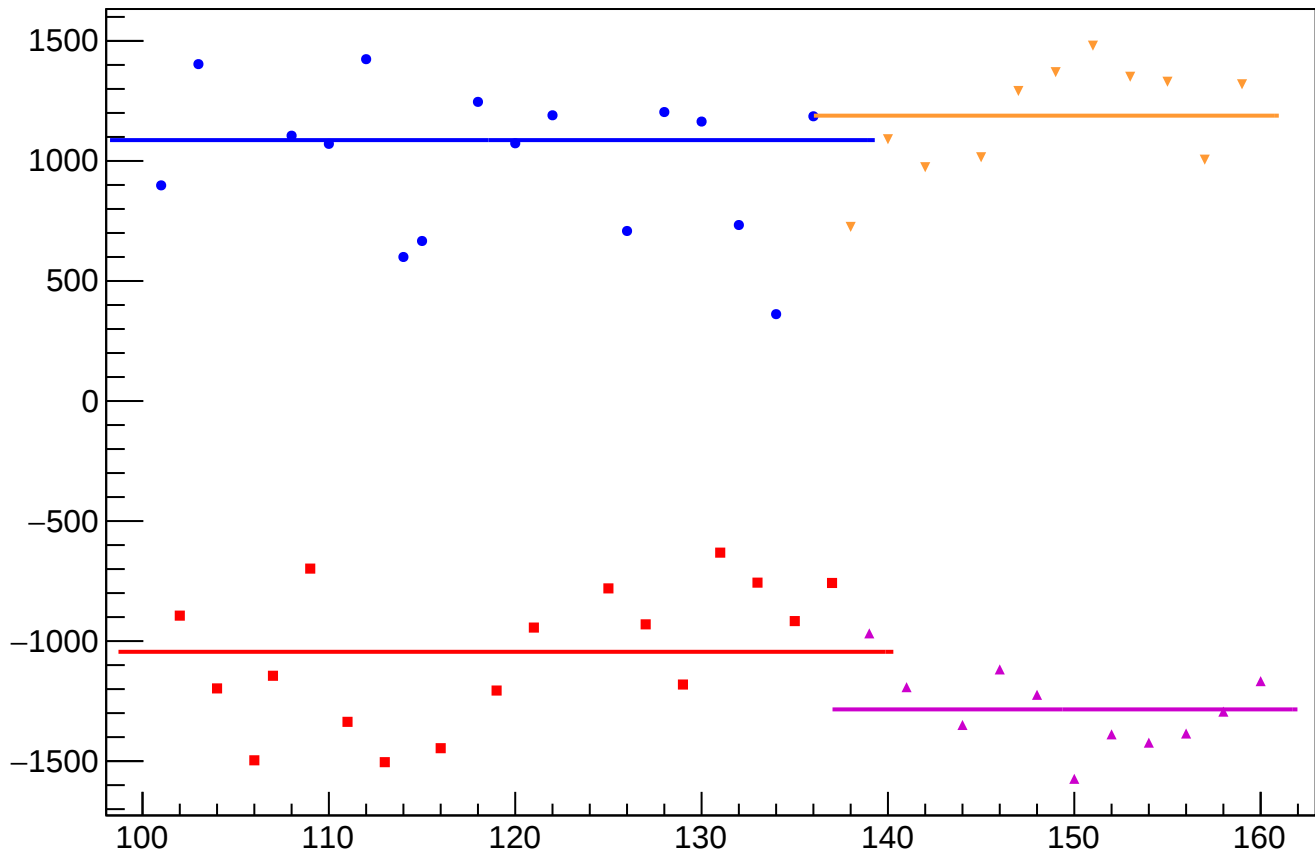
Right In: 4190.973+/-0.000  $\chi^2/\text{NDF}$ : 554038134535494230935556440305969397760.0/15  
 Left Out: 4422.510+/-0.000  $\chi^2/\text{NDF}$ : 753196682646313209134126931375441313792.0/10  
 Right Out: -4766.714+/-0.000  $\chi^2/\text{NDF}$ : 2969196242721495635889986773908602224640.0/16  
 Left In: -4635.509+/-0.000  $\chi^2/\text{NDF}$ : 1059752939887595758489348119495845085184.0/10  
 All: -331.924+/-0.000  $\chi^2/\text{NDF}$ : 69551117198

# dit\_usl\_coil4\_err\_mean vs Slug, Sign Corrected



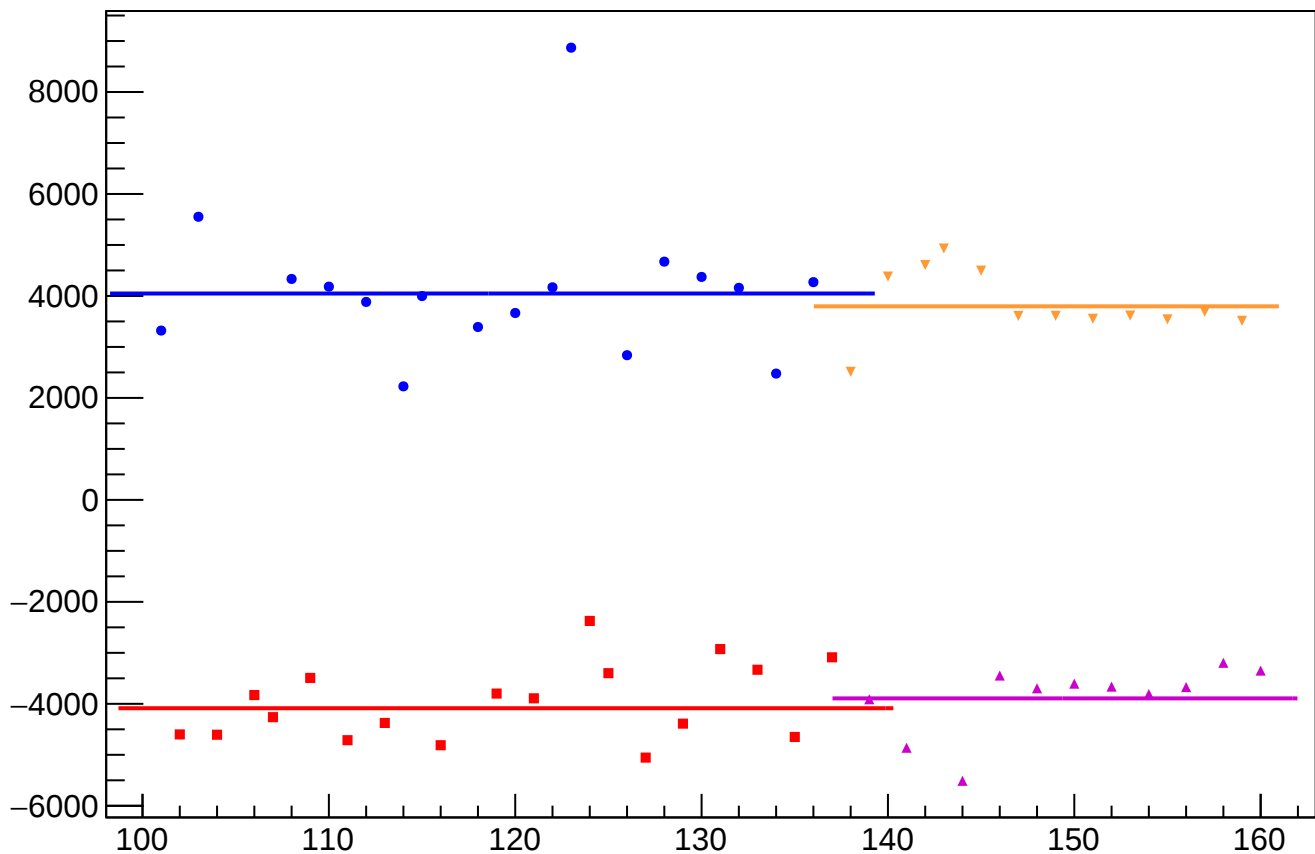
Right In: 317.084+/-0.000  $\chi^2/\text{NDF}$ : 15440276359245580191741047920465543168.0/15  
 Left Out: 428.978+/-0.000  $\chi^2/\text{NDF}$ : 10626522837529690140021114504579383296.0/10  
 Right Out: -366.053+/-0.000  $\chi^2/\text{NDF}$ : 31157973605683459615642144815175434240.0/16  
 Left In: -419.525+/-0.000  $\chi^2/\text{NDF}$ : 7733869691626146763225313004956418048.0/10  
 All: -21.488+/-0.000  $\chi^2/\text{NDF}$ : 545956988188

dit\_usl\_coil4\_Ndata\_mean vs Slug, Sign Corrected



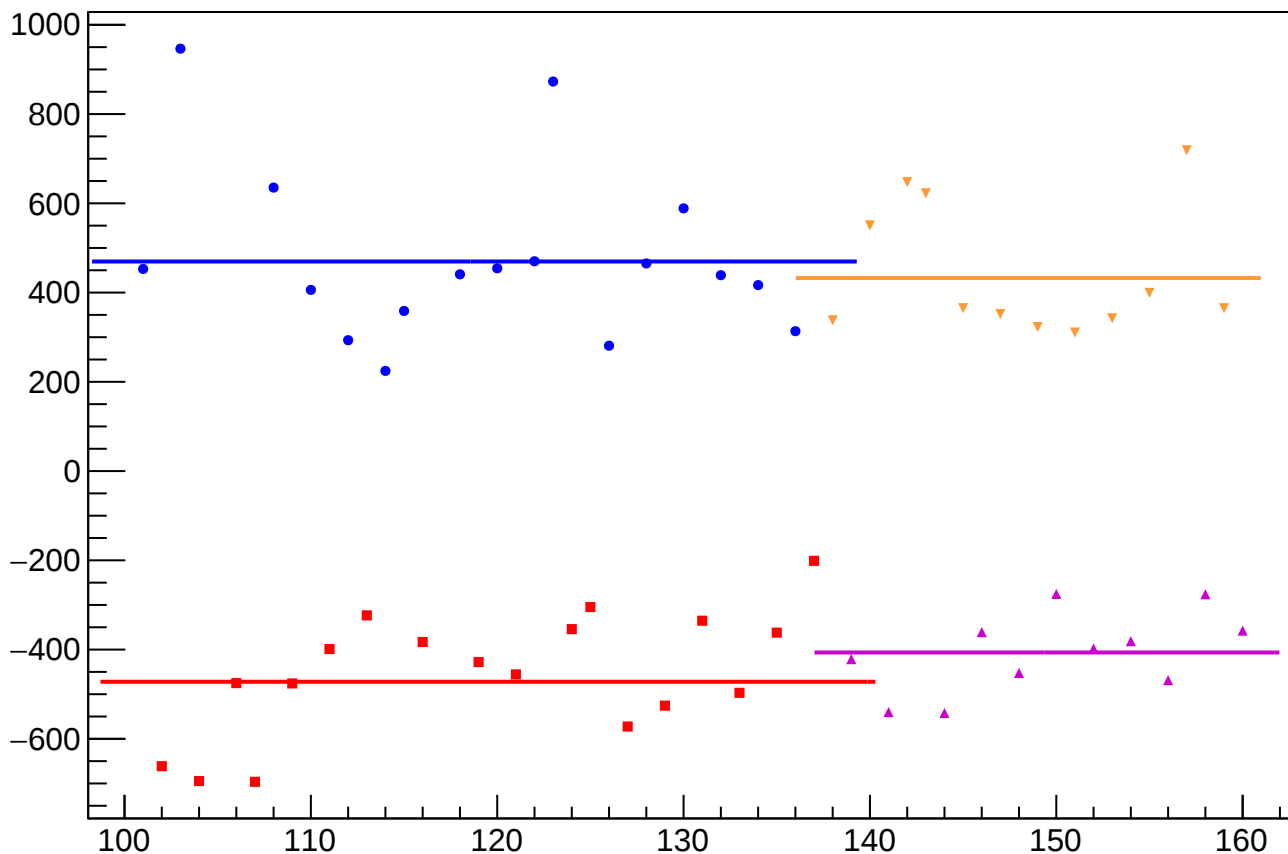
Right In: 1086.839+/-0.000  $\chi^2/\text{NDF}$ : 44275849492978077110615226297834536960.0/15  
 Left Out: 1188.739+/-0.000  $\chi^2/\text{NDF}$ : 39812899139477527607362290262896279552.0/10  
 Right Out: -1044.621+/-0.000  $\chi^2/\text{NDF}$ : 50844042601115178022623217176499191808.0/16  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -56.828+/-0.000  $\chi^2/\text{NDF}$ : 445808036834

dit\_usr\_coil4\_mean vs Slug, Sign Corrected



Right In: 4047.777+/-0.000  $\chi^2/\text{NDF}$ : 474277601546286209707812771687018004480.0/16  
 Left Out: 3796.236+/-0.000  $\chi^2/\text{NDF}$ : 336687829589722132467600550527009554432.0/11  
 Right Out: -4086.316+/-0.000  $\chi^2/\text{NDF}$ : 301982700213825275137563978140215148544.0/17  
 Left In: -3893.435+/-0.000  $\chi^2/\text{NDF}$ : 413166584185760487956391730192104554496.0/10  
 All: -90.543+/-0.000  $\chi^2/\text{NDF}$ : 520525241625

dit\_usr\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 469.645 $\pm$ 0.000  $\chi^2$ /NDF: 22201042961896219188176863921652629504.0/16

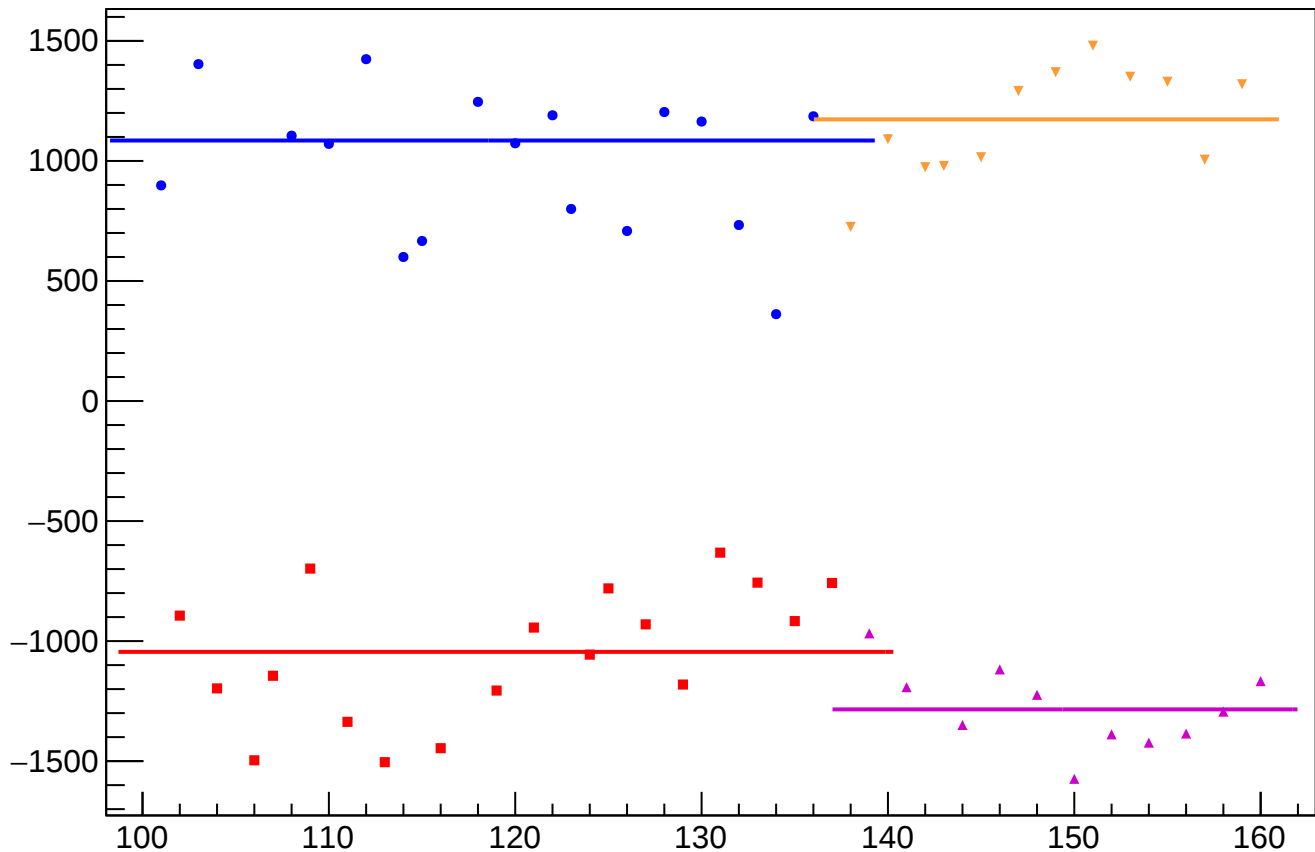
Left Out: 432.752 $\pm$ 0.000  $\chi^2$ /NDF: 16613778156502227039812648208749821952.0/11

Right Out: -472.112 $\pm$ 0.000  $\chi^2$ /NDF: 12398871924669384395849092219212398592.0/17

Left In: -406.513 $\pm$ 0.000  $\chi^2$ /NDF: 7035979744021755230989165632233144320.0/10

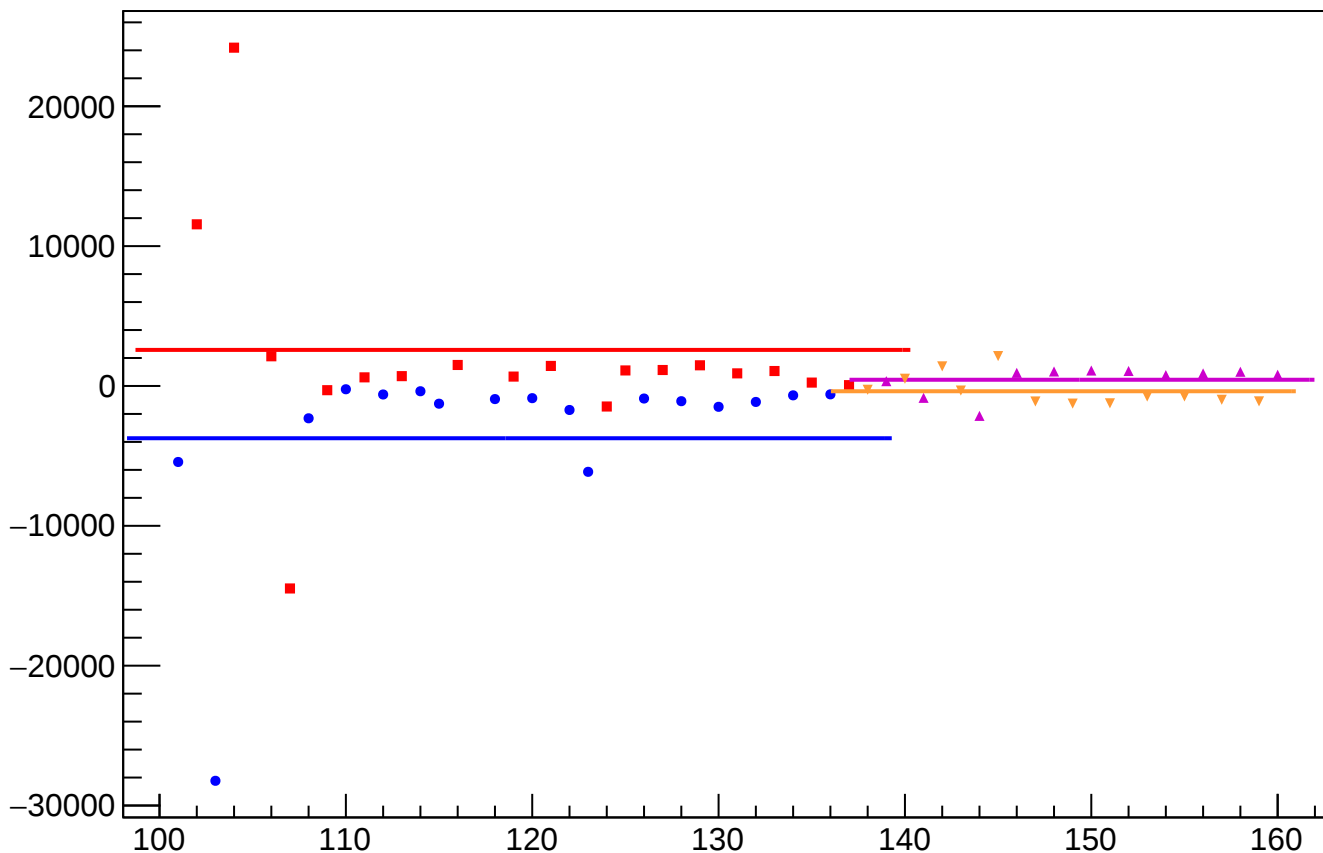
All: 0.759 $\pm$ 0.000  $\chi^2$ /NDF: 69510091565194

dit\_usr\_coil4\_Ndata\_mean vs Slug, Sign Corrected



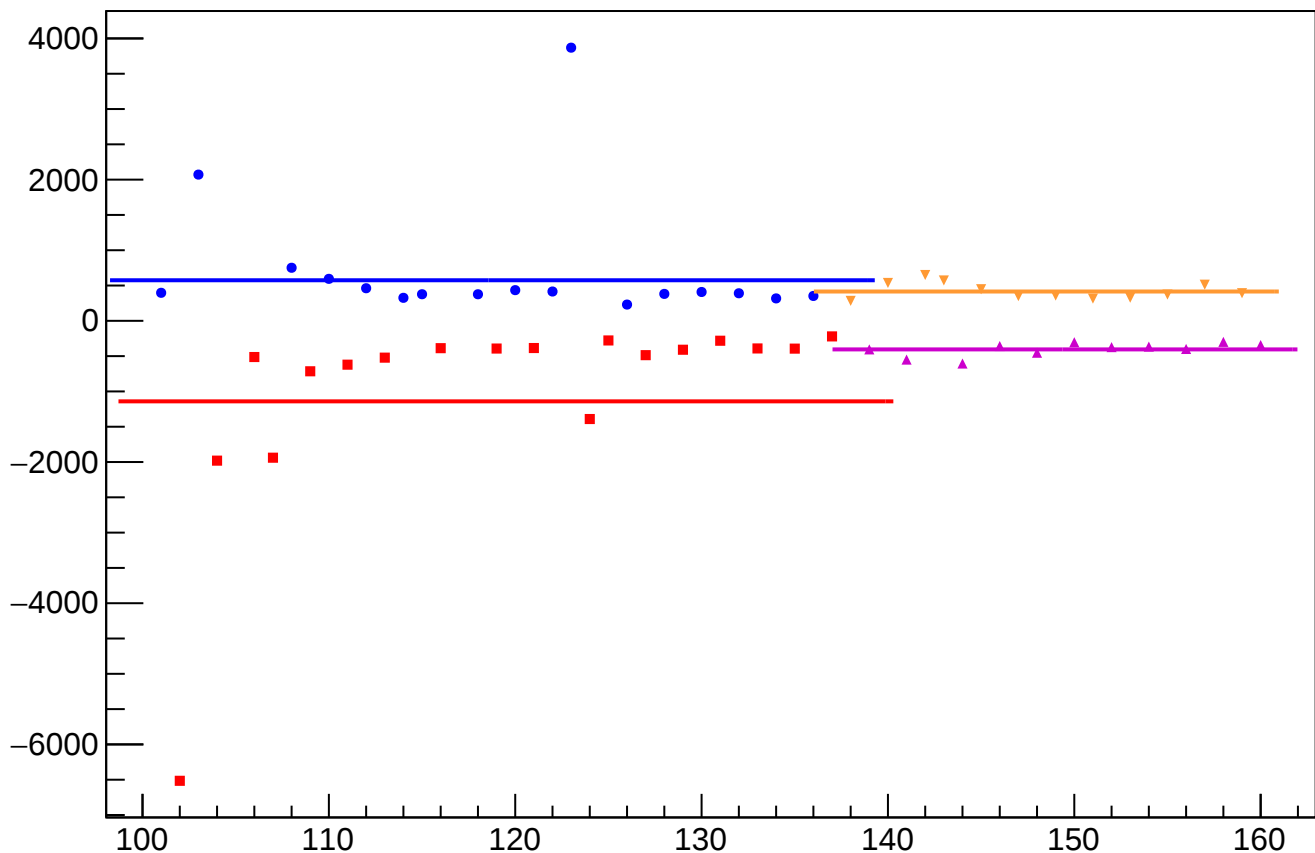
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_atl1\_coil4\_mean vs Slug, Sign Corrected



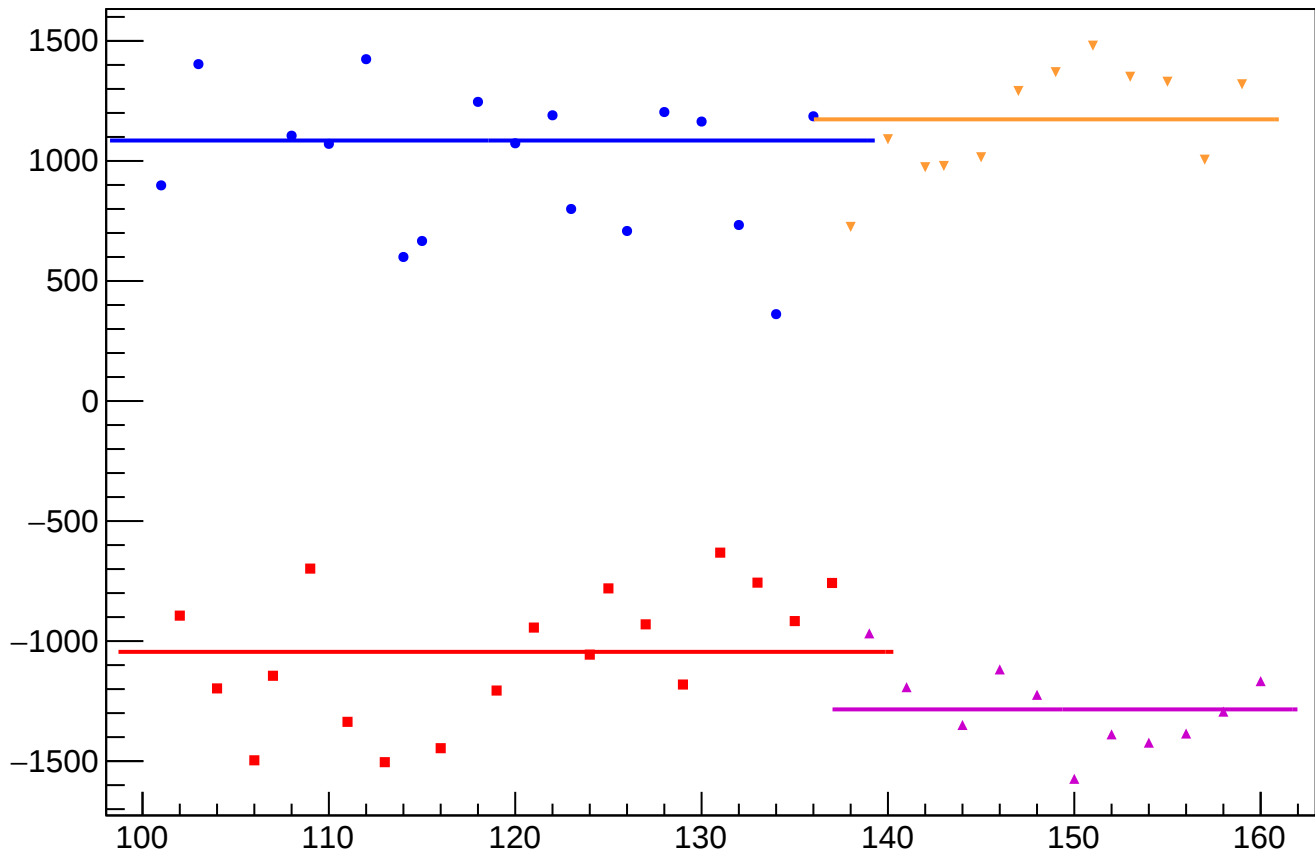
Right In:  $-3737.261 \pm 0.000$   $\chi^2/\text{NDF}$ : 39970682954500817220133496875438988853248.0/16  
 Left Out:  $-377.495 \pm 0.000$   $\chi^2/\text{NDF}$ : 962483060737220205564221178088372830208.0/11  
 Right Out:  $2578.788 \pm 0.000$   $\chi^2/\text{NDF}$ : 41033783209718443304558448411646302879744.0/17  
 Left In:  $444.428 \pm 0.000$   $\chi^2/\text{NDF}$ : 923276009049297948790551518127417458688.0/10  
 All:  $-208.649 \pm 0.000$   $\chi^2/\text{NDF}$ : 97510545741

dit\_atl1\_coil4\_err\_mean vs Slug, Sign Corrected



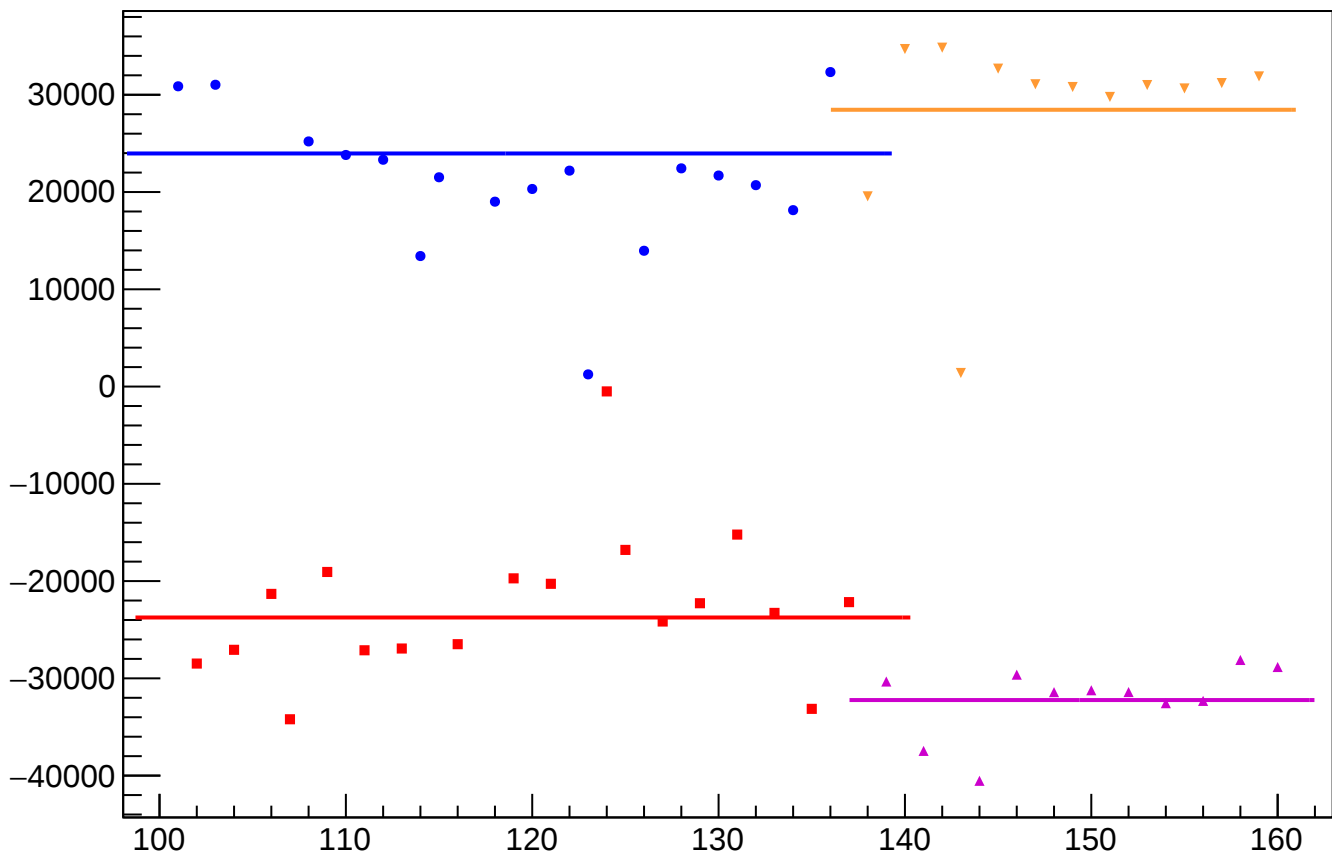
Right In: 574.655+/-0.000  $\chi^2/\text{NDF}$ : 199698400452439530730016550179978608640.0/16  
 Left Out: 415.289+/-0.000  $\chi^2/\text{NDF}$ : 9749177635603258088647624710302990336.0/11  
 Right Out: -1140.608+/-0.000  $\chi^2/\text{NDF}$ : 2013558101221942862779211693423515926528.0/17  
 Left In: -404.849+/-0.000  $\chi^2/\text{NDF}$ : 8121817838558046042338349225347121152.0/10  
 All: -128.253+/-0.000  $\chi^2/\text{NDF}$ : 36467276883

dit\_atl1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: -71.638+/-0.000              | $\chi^2/\text{NDF}$ : 2847965876858153  |
| Left Out: 1173.287+/-0.000   | $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11 | Right: 4.294+/-0.000               | $\chi^2/\text{NDF}$ : 16932734928141311 |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17 | In: -273.729+/-0.000               | $\chi^2/\text{NDF}$ : 2303517069122456  |
| Left In: -1284.540+/-0.000   | $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10 | Out: 196.705+/-0.000               | $\chi^2/\text{NDF}$ : 2062457208179950  |
|                              | All: -38.729+/-0.000                                              | $\chi^2/\text{NDF}$ : 454584232037 |                                         |

# dit\_atl2\_coil4\_mean vs Slug, Sign Corrected



Right In: 23965.147+/-0.000

$\chi^2/\text{NDF}$ : 22982900561545593794269983567622080299008.0/16

Left Out: 28458.038+/-0.000

$\chi^2/\text{NDF}$ : 65276775110198217312307166333227962990592.0/11

Right Out: -23743.519+/-0.000

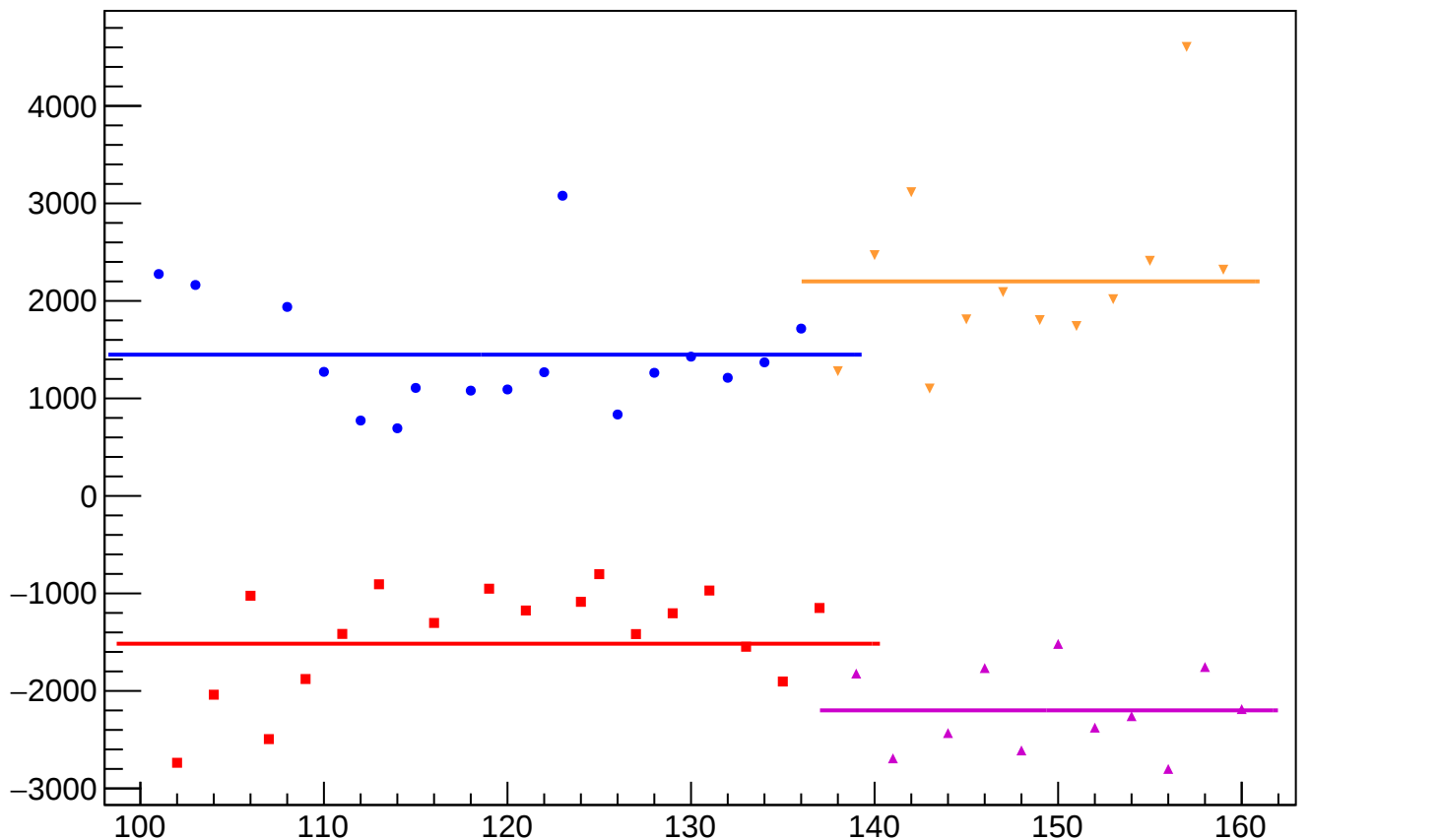
$\chi^2/\text{NDF}$ : 25937218131071515690144071247519476088832.0/17

Left In: -32231.777+/-0.000

$\chi^2/\text{NDF}$ : 11867262349376140232643052148473974489088.0/10

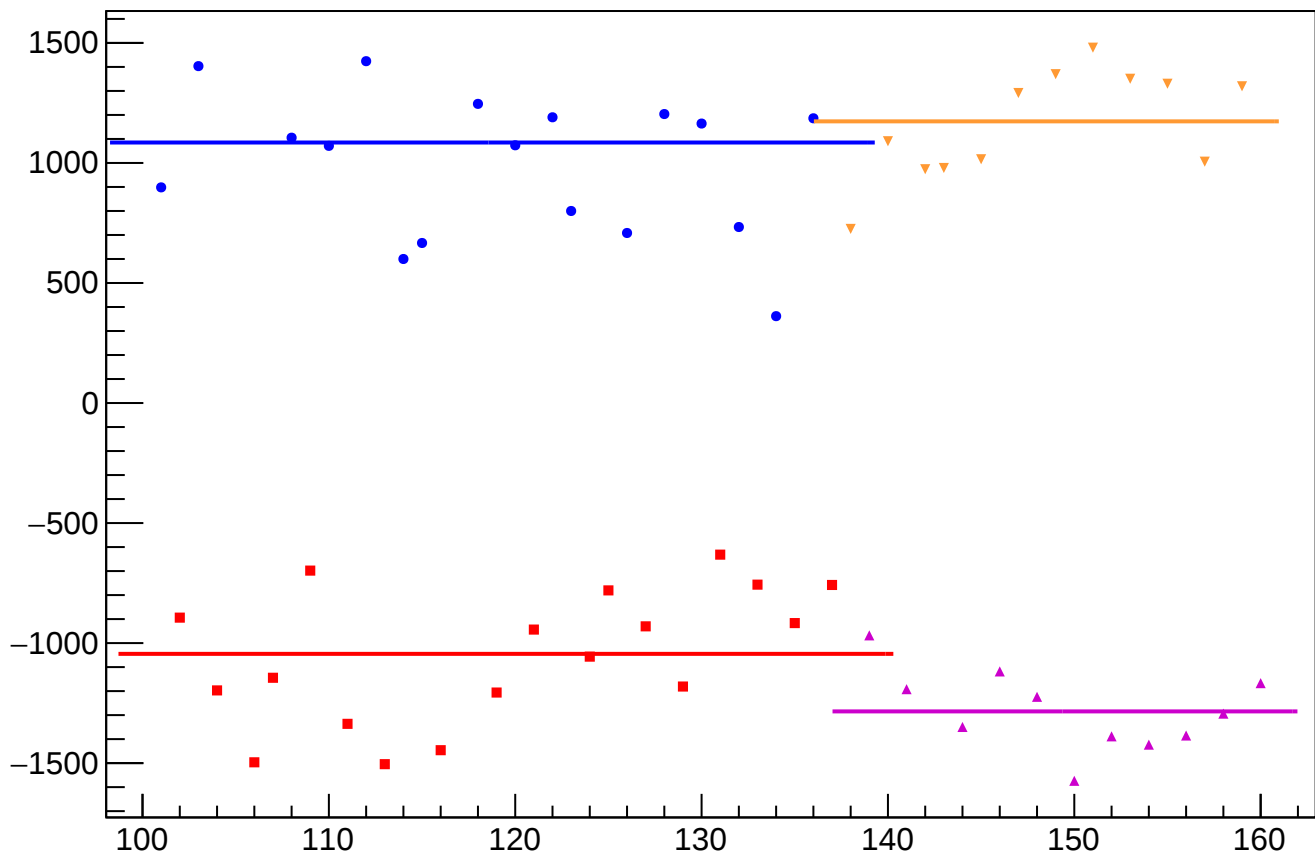
All: -1399.168+/-0.000  $\chi^2/\text{NDF}$ : 2626812808

dit\_atl2\_coil4\_err\_mean vs Slug, Sign Corrected



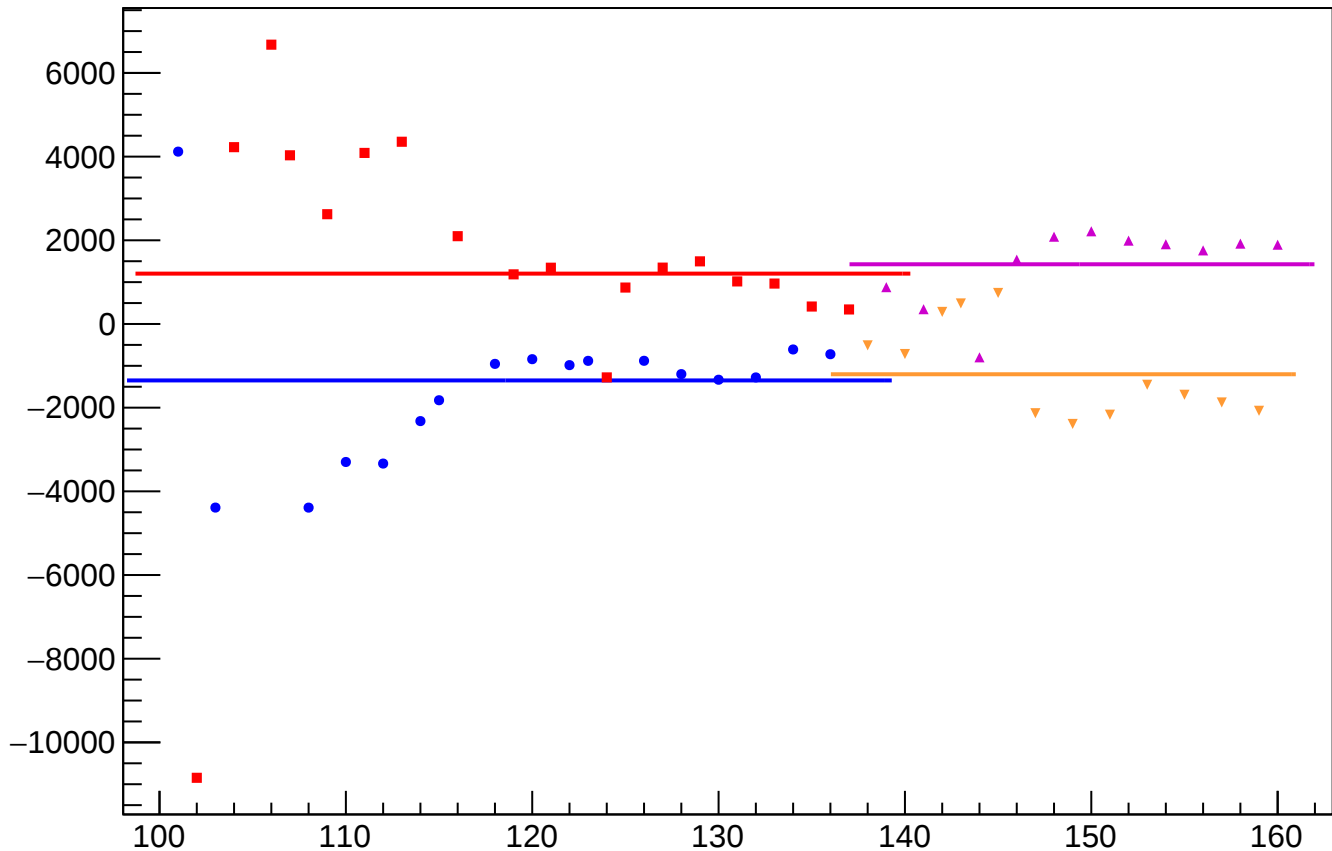
Right In:  $1448.784 \pm 0.000$   $\chi^2/\text{NDF}$ : 161243667372586677805499102921584803840.0/16  
 Left Out:  $2200.167 \pm 0.000$   $\chi^2/\text{NDF}$ : 669096191562201912337665879605187182592.0/11  
 Right Out:  $-1515.702 \pm 0.000$   $\chi^2/\text{NDF}$ : 234412516405982646618467253110689497088.0/17  
 Left In:  $-2199.283 \pm 0.000$   $\chi^2/\text{NDF}$ : 156934506780582925441007438753813233664.0/10  
 All:  $-40.065 \pm 0.000$   $\chi^2/\text{NDF}$ : 132287661169

dit\_atl2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_atr1\_coil4\_mean vs Slug, Sign Corrected



Right In: -1349.176+/-0.000

Left Out: -1201.551+/-0.000

Right Out: 1203.612+/-0.000

Left In: 1427.044+/-0.000

$\chi^2/\text{NDF}$ : 3084941184045918680057306663363310256128.0/16

$\chi^2/\text{NDF}$ : 1022278799851765665232545195889702993920.0/11

$\chi^2/\text{NDF}$ : 11193438968454164485978999260490441424896.0/17

$\chi^2/\text{NDF}$ : 751413830478220555131206140402736300032.0/10

Left: 129.871+/-0.000  $\chi^2/\text{NDF}$ : 4954983265052940

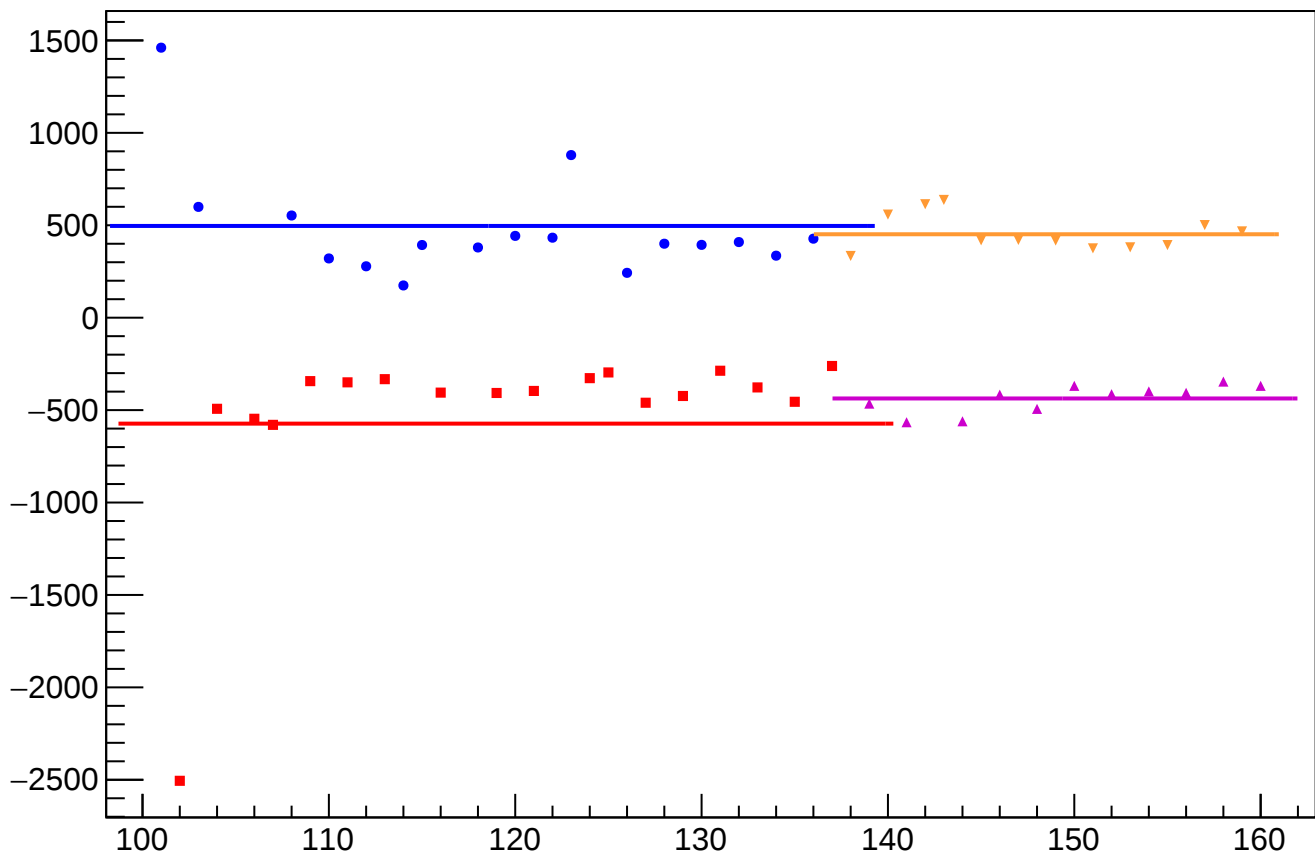
Right: -53.758+/-0.000  $\chi^2/\text{NDF}$ : 165733864830032

In: 242.842+/-0.000  $\chi^2/\text{NDF}$ : 6903689749274373

Out: -142.628+/-0.000  $\chi^2/\text{NDF}$ : 145308353732045

All: 50.285+/-0.000  $\chi^2/\text{NDF}$ : 2155528916181

# dit\_atr1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 496.351+/-0.000

$\chi^2/\text{NDF}$ : 66983748455015205041159290240142147584.0/16

Left Out: 451.374+/-0.000

$\chi^2/\text{NDF}$ : 7134946740505986037701205636285464576.0/11

Right Out: -573.168+/-0.000

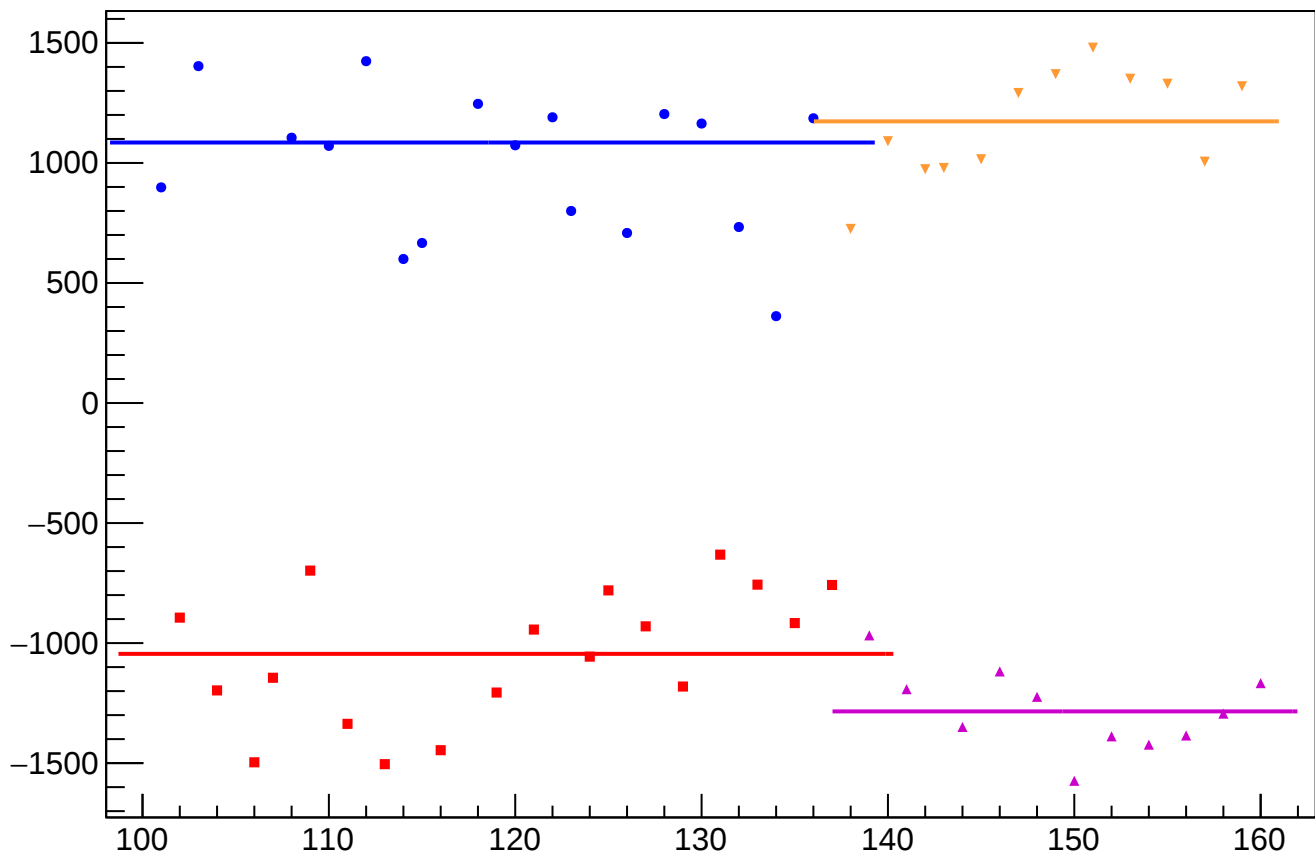
$\chi^2/\text{NDF}$ : 240073229917698868720276393416726675456.0/17

Left In: -437.047+/-0.000

$\chi^2/\text{NDF}$ : 4864659833143539285467190686845501440.0/10

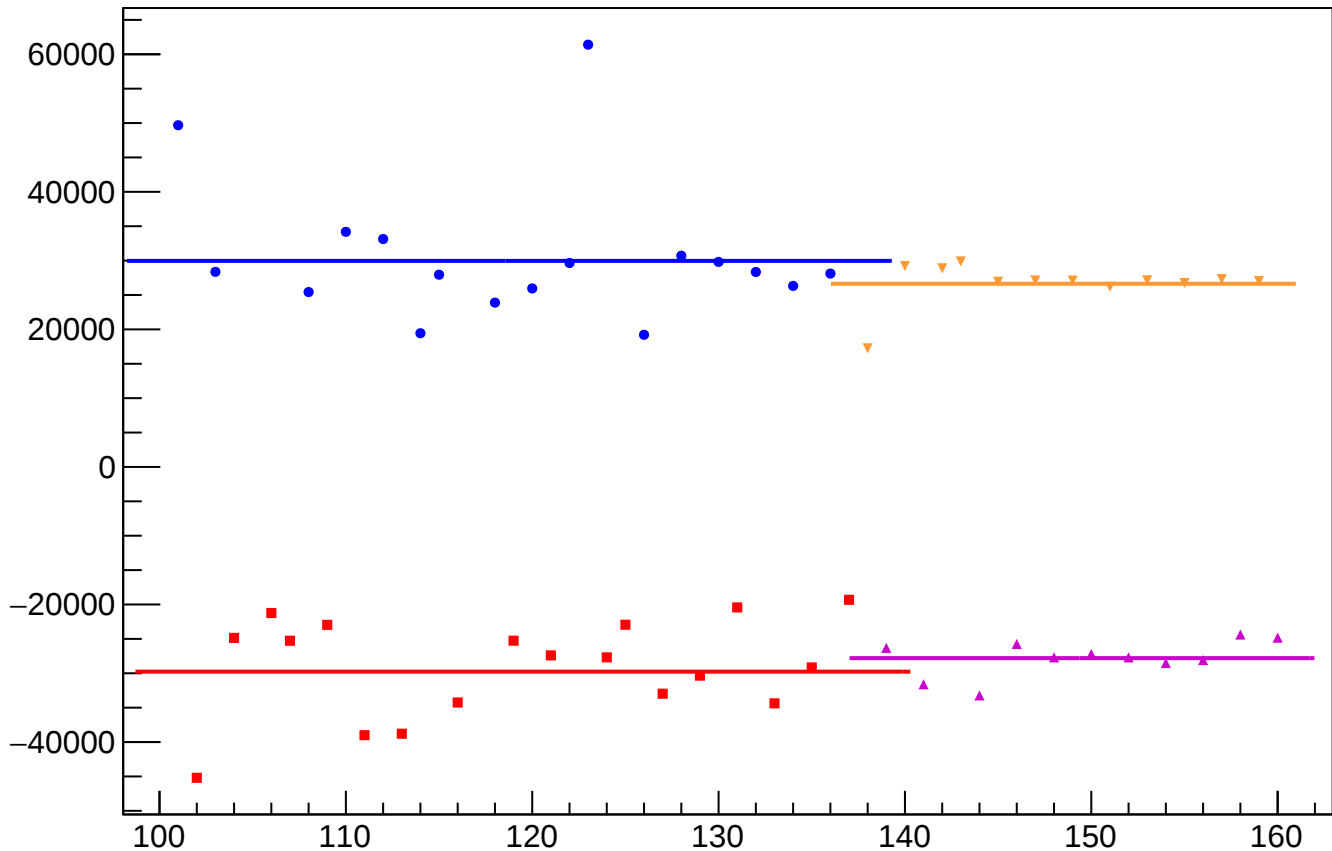
All: -19.321+/-0.000  $\chi^2/\text{NDF}$ : 108712362073

dit\_atr1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                       |                                         |
|------------------------------|-------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: -71.638+/-0.000 | $\chi^2/\text{NDF}$ : 2847965876858153  |
| Left Out: 1173.287+/-0.000   | $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11 | Right: 4.294+/-0.000  | $\chi^2/\text{NDF}$ : 16932734928141311 |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17 | In: -273.729+/-0.000  | $\chi^2/\text{NDF}$ : 2303517069122456  |
| Left In: -1284.540+/-0.000   | $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10 | Out: 196.705+/-0.000  | $\chi^2/\text{NDF}$ : 2062457208179950  |
|                              | All: -38.729+/-0.000                                              |                       | $\chi^2/\text{NDF}$ : 454584232037      |

# dit\_atr2\_coil4\_mean vs Slug, Sign Corrected



Right In: 29960.563+/-0.000

$\chi^2/\text{NDF}$ : 38272709086570322906485359352807285587968.0/16

Left Out: 26632.417+/-0.000

$\chi^2/\text{NDF}$ : 8490243568880868958289706883488159891456.0/11

Right Out: -29764.245+/-0.000

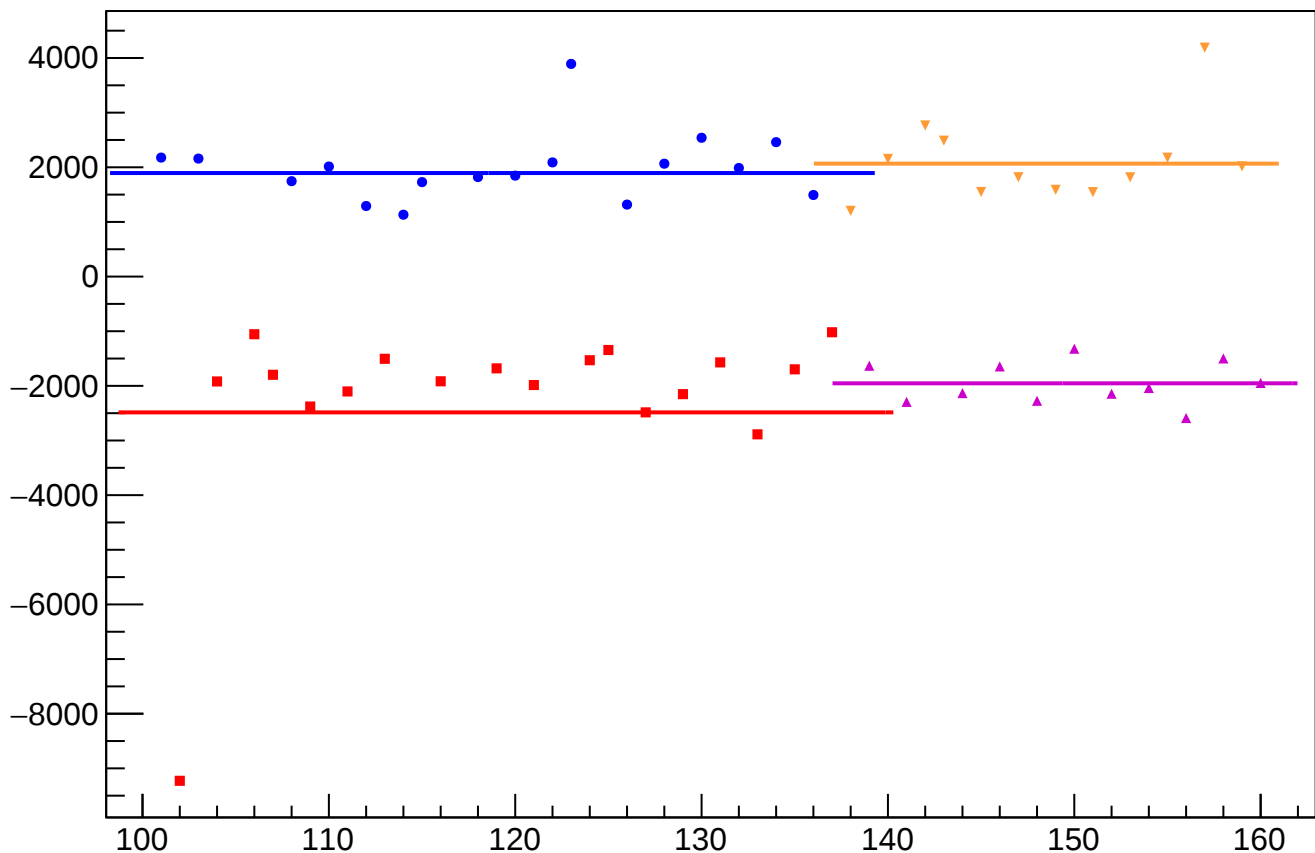
$\chi^2/\text{NDF}$ : 38095124017741211444799459233695721848832.0/17

Left In: -27798.105+/-0.000

$\chi^2/\text{NDF}$ : 6158980585091942758745963697527175774208.0/10

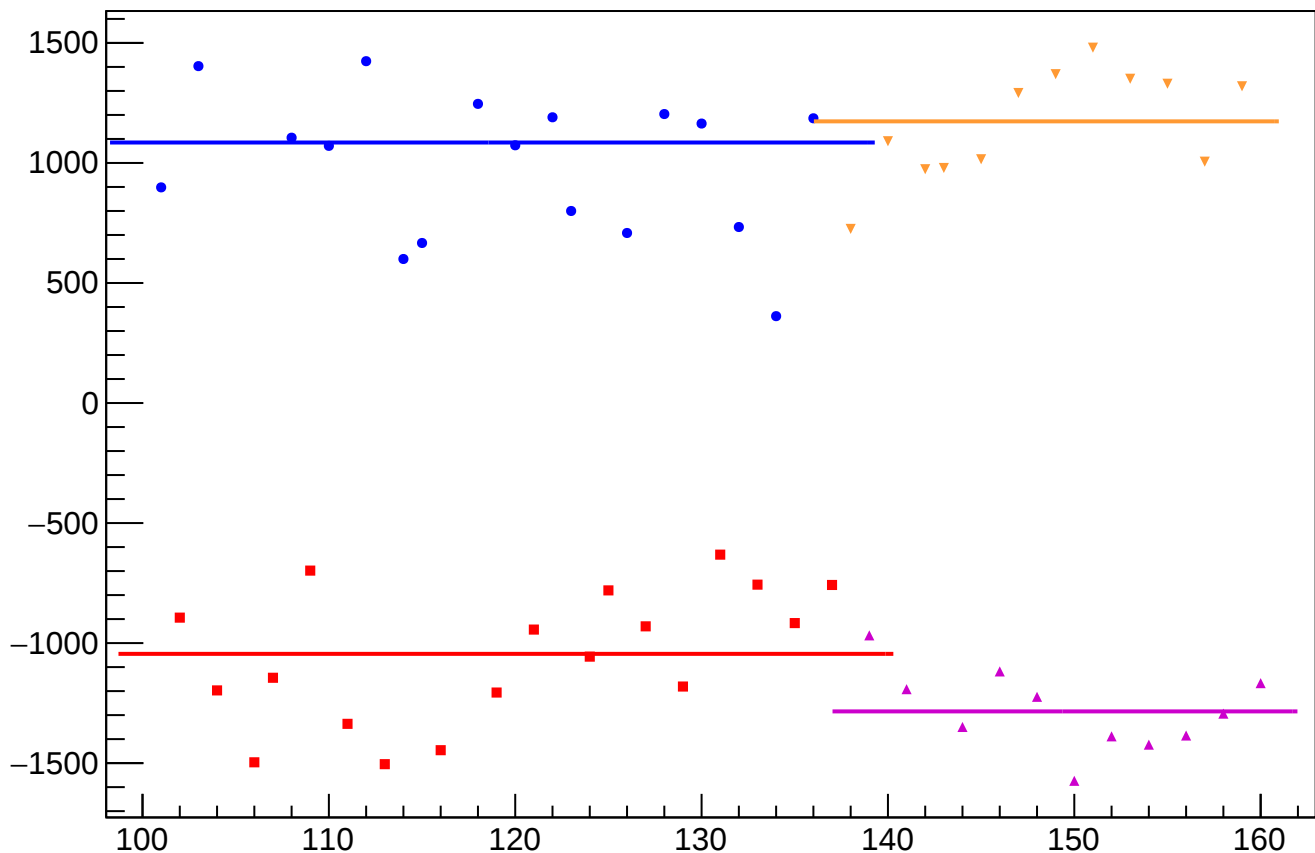
All: -681.504+/-0.000  $\chi^2/\text{NDF}$ : 27115939878

dit\_atr2\_coil4\_err\_mean vs Slug, Sign Corrected



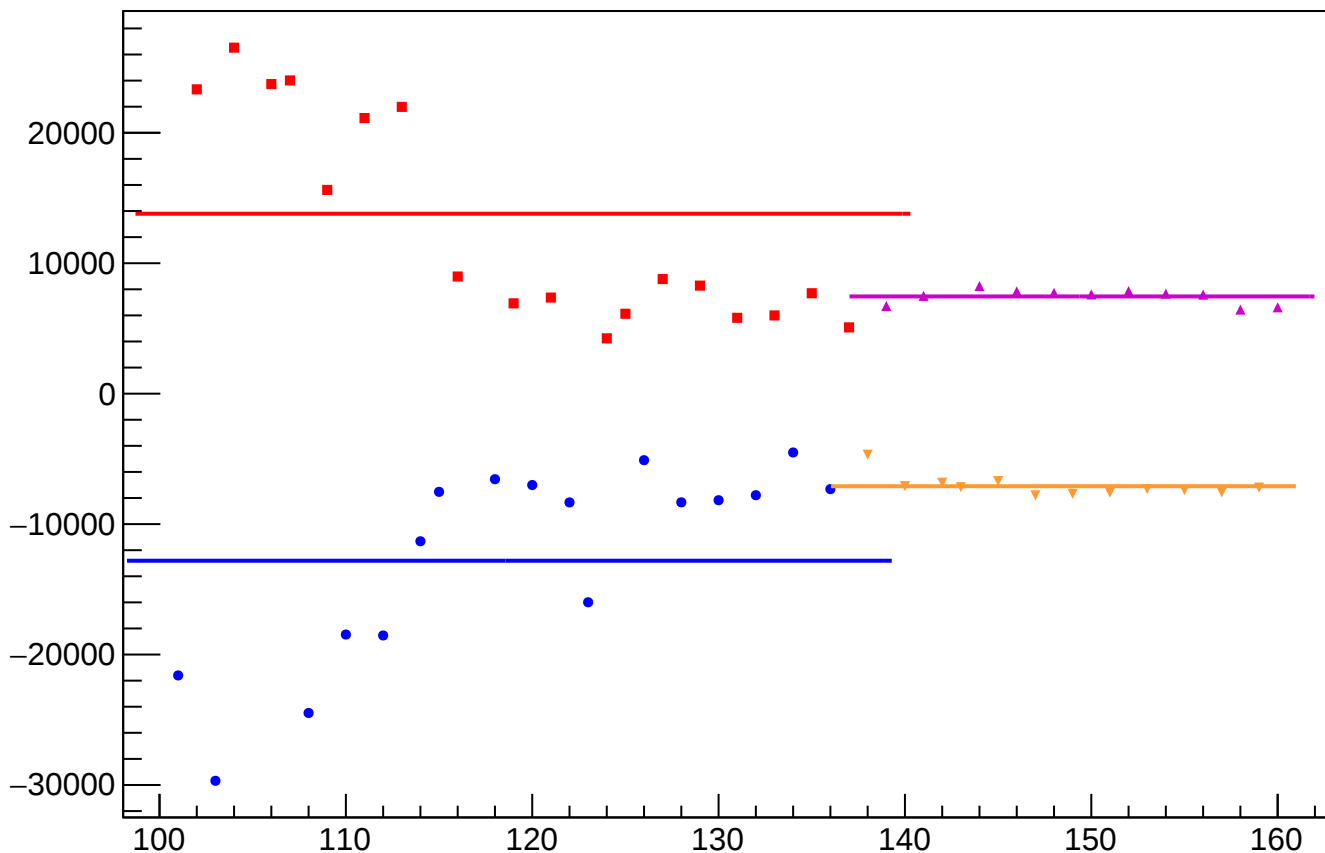
Right In: 1894.762 $\pm$ 0.000  $\chi^2$ /NDF: 112136505207273757562412234872415322112.0/16  
 Left Out: 2067.096 $\pm$ 0.000  $\chi^2$ /NDF: 498951714500530031712915611537190682624.0/11  
 Right Out: -2485.438 $\pm$ 0.000  $\chi^2$ /NDF: 3007798896738182941908815432963258843136.0/17  
 Left In: -1953.340 $\pm$ 0.000  $\chi^2$ /NDF: 126893636747608035073836069635988914176.0/10  
 All: -124.761 $\pm$ 0.000  $\chi^2$ /NDF: 18047516215

dit\_atr2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

dit\_sam1\_coil4\_mean vs Slug, Sign Corrected



Right In: -12807.543+/-0.000

$\chi^2/\text{NDF}$ : 43495419642384540327712467114015835815936.0/16

Left: 273.414+/-0.000

$\chi^2/\text{NDF}$ : 9833783800692671

Right: 691.705+/-0.000

$\chi^2/\text{NDF}$ : 337256561899080

Left Out: -7096.329+/-0.000

$\chi^2/\text{NDF}$ : 584722053171334285321257985594368196608.0/11

In: -1188.840+/-0.000

$\chi^2/\text{NDF}$ : 207150417799296

Right Out: 13794.471+/-0.000

$\chi^2/\text{NDF}$ : 44540762371856662603320518030739625738240.0/17

Out: 2101.283+/-0.000

$\chi^2/\text{NDF}$ : 219785724716291

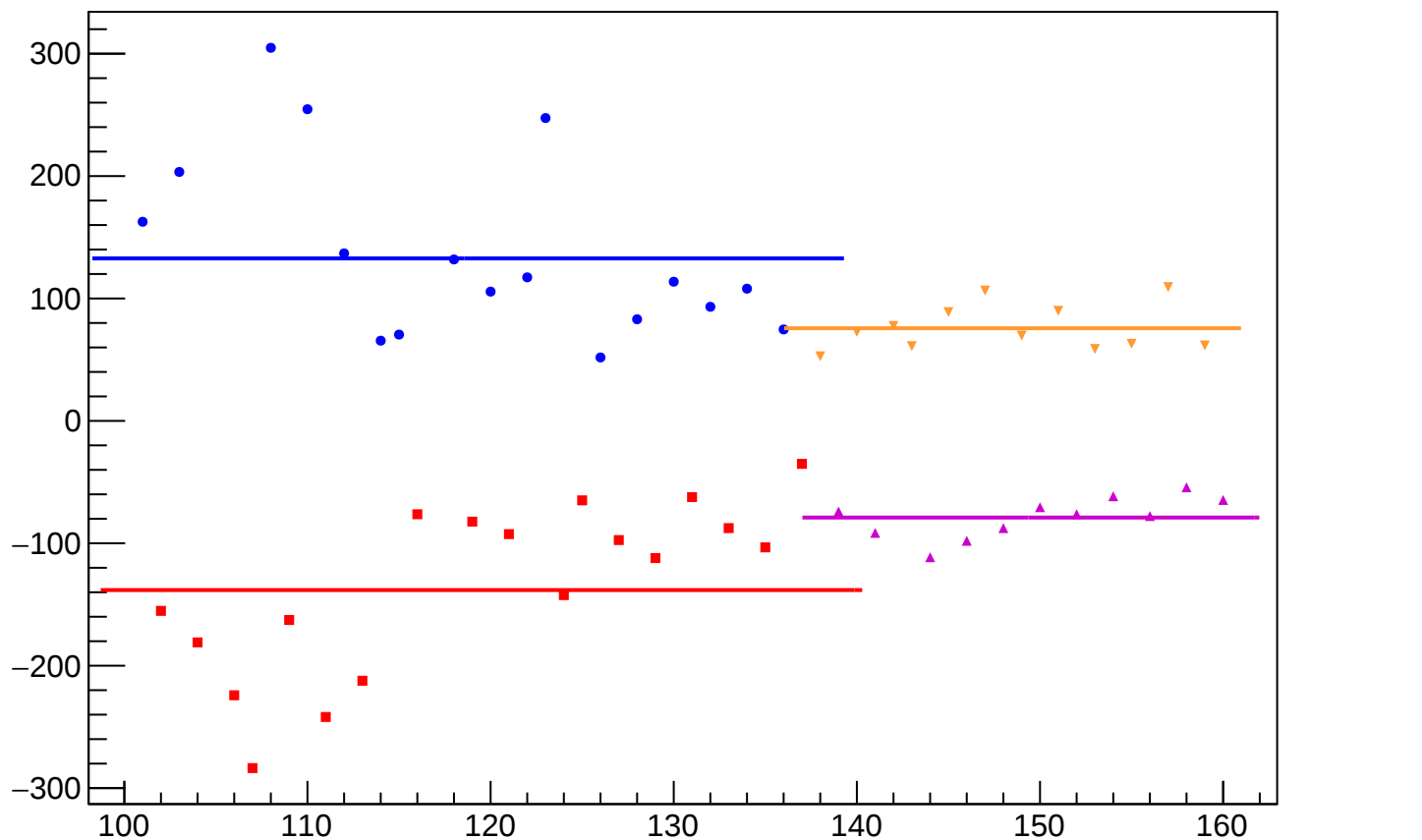
Left In: 7453.581+/-0.000

$\chi^2/\text{NDF}$ : 281861545149716894658296806870620307456.0/10

All: 454.703+/-0.000

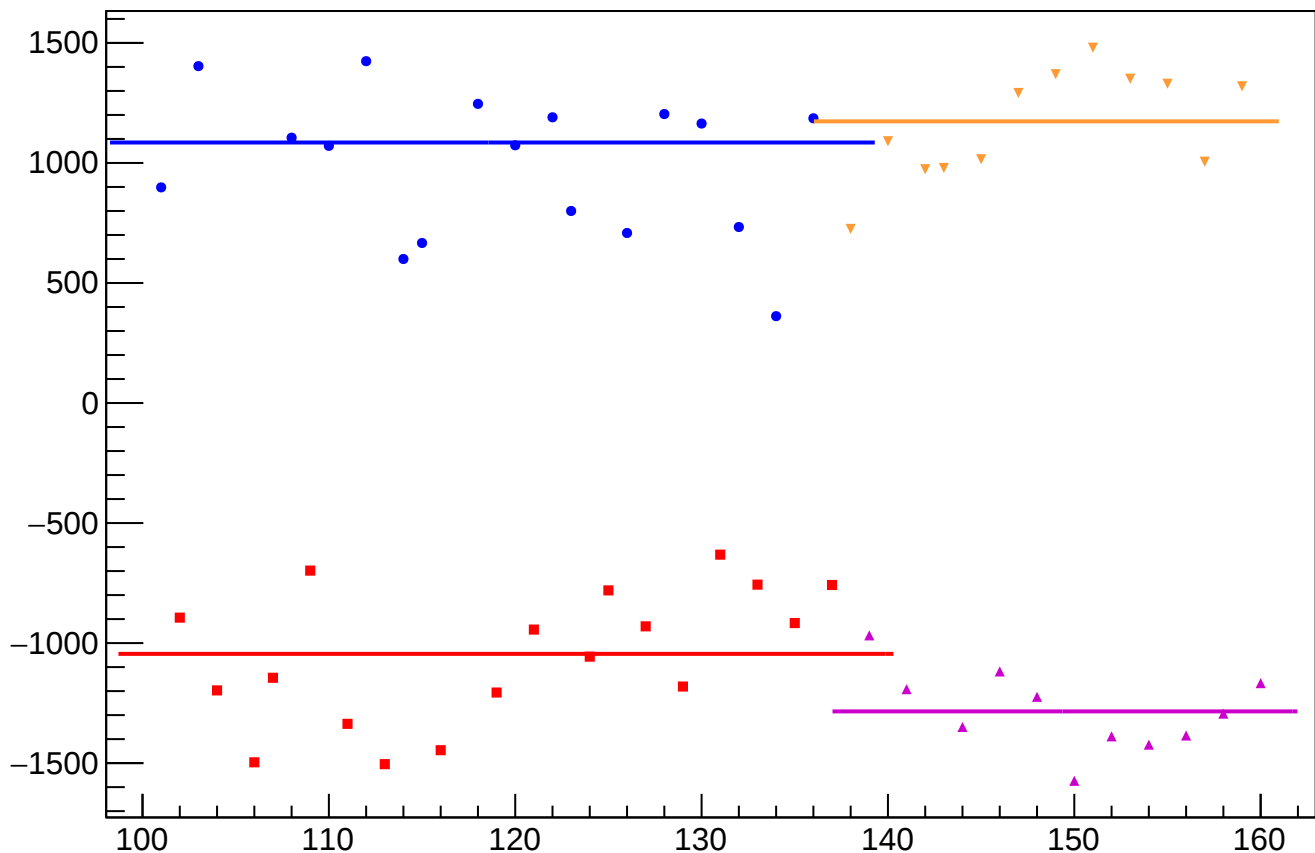
$\chi^2/\text{NDF}$ : 435734081943

dit\_sam1\_coil4\_err\_mean vs Slug, Sign Corrected



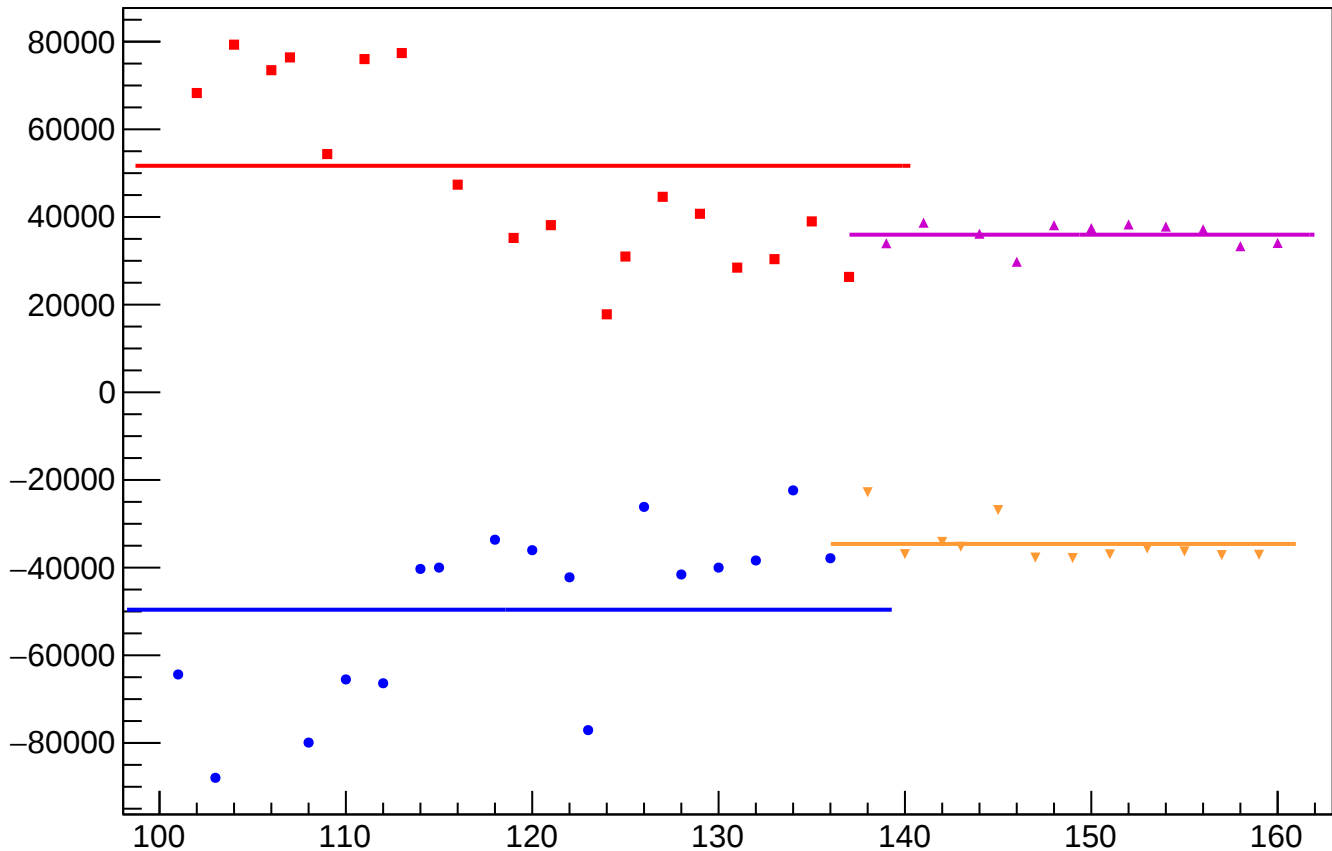
Left:  $-2.638 \pm 0.000$   $\chi^2/\text{NDF}: 11556362420616820$   
 Right In:  $132.743 \pm 0.000$   $\chi^2/\text{NDF}: 2974792347641490027349453247875121152.0/16$   
 Right:  $-4.751 \pm 0.000$   $\chi^2/\text{NDF}: 3190255786857063$   
 Left Out:  $75.694 \pm 0.000$   $\chi^2/\text{NDF}: 299041397812904543240527879931428864.0/11$   
 In:  $11.346 \pm 0.000$   $\chi^2/\text{NDF}: 210560879125943653$   
 Right Out:  $-138.207 \pm 0.000$   $\chi^2/\text{NDF}: 3073549318432471040798146297277186048.0/17$   
 Out:  $-18.480 \pm 0.000$   $\chi^2/\text{NDF}: 2168337738862488$   
 Left In:  $-78.954 \pm 0.000$   $\chi^2/\text{NDF}: 245917130698538374305589687150968832.0/10$   
 All:  $-3.553 \pm 0.000$   $\chi^2/\text{NDF}: 4346248611398$

dit\_sam1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

dit\_sam2\_coil4\_mean vs Slug, Sign Corrected



Right In: -49596.405+/-0.000

Left Out: -34593.901+/-0.000

Right Out: 51680.980+/-0.000

Left In: 35959.420+/-0.000

$\chi^2/\text{NDF}$ : 248313182325102448289525934605791330828288.0/16

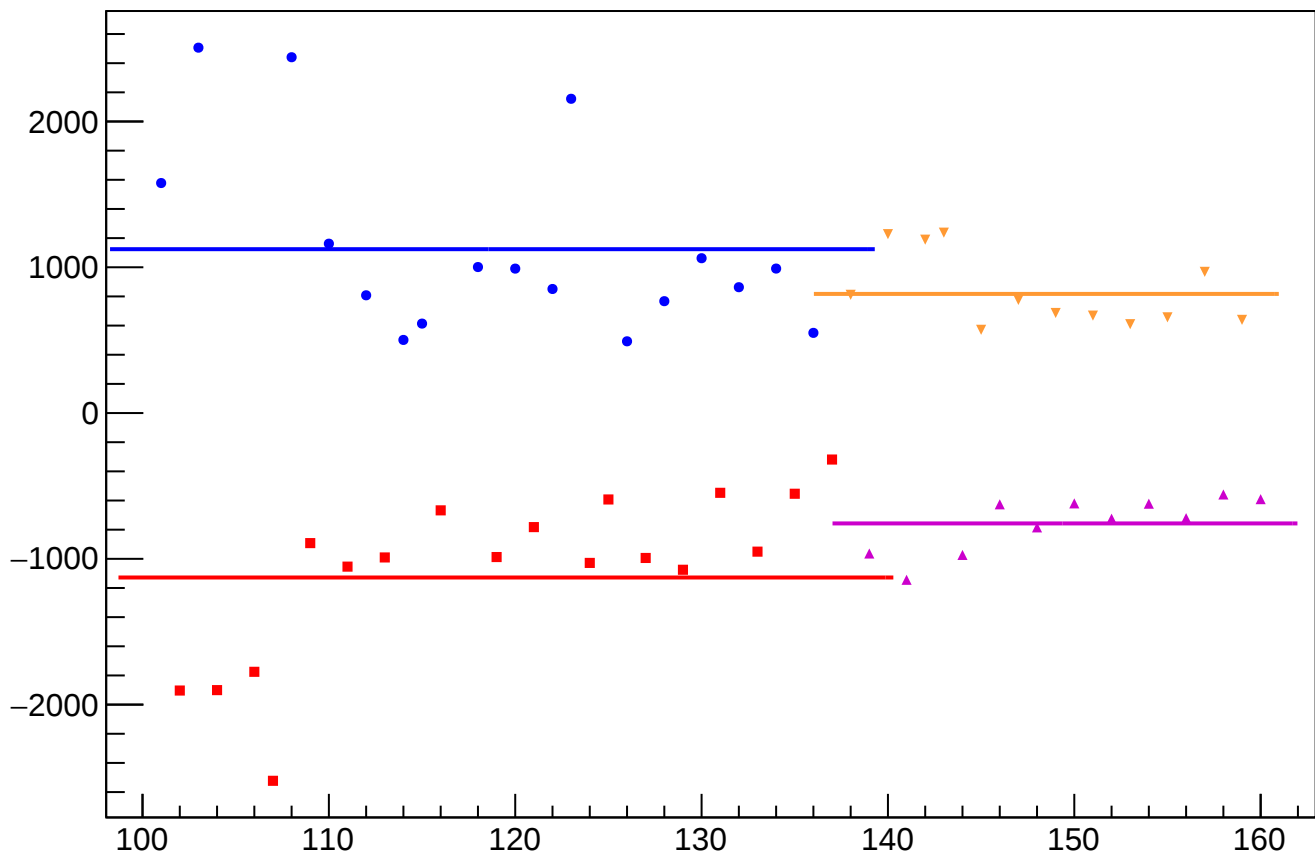
$\chi^2/\text{NDF}$ : 19332238764834112124747040225536159776768.0/11

$\chi^2/\text{NDF}$ : 268094403741805330481600683125097153691648.0/17

$\chi^2/\text{NDF}$ : 6460763561716039047552359643495482261504.0/10

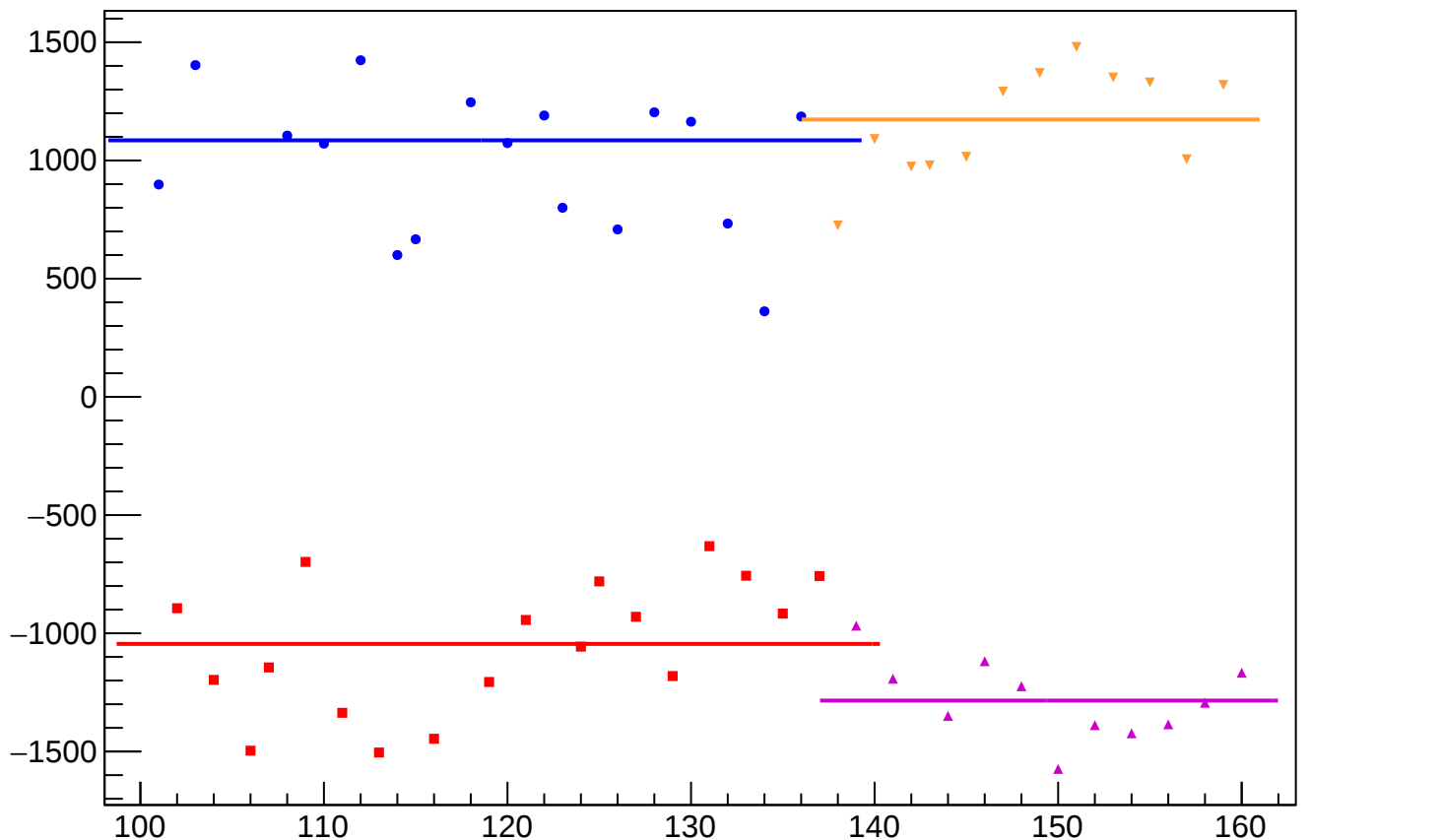
All: 1426.108+/-0.000  $\chi^2/\text{NDF}$ : 64466810883

dit\_sam2\_coil4\_err\_mean vs Slug, Sign Corrected



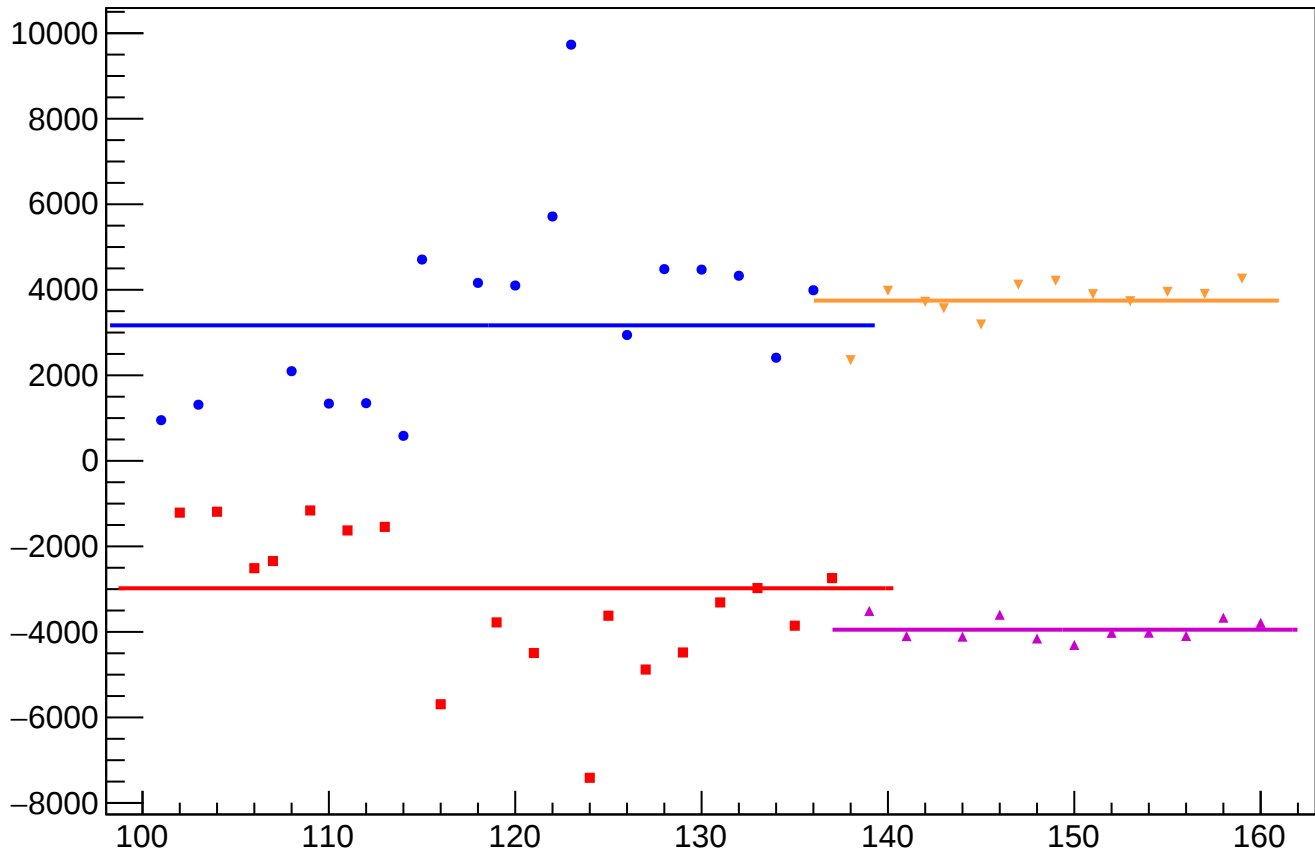
Left: 19.808+/-0.000  $\chi^2/\text{NDF}$ : 12219716222739218  
 Right In: 1124.063+/-0.000  $\chi^2/\text{NDF}$ : 267842110554403806997651522470490931200.0/16  
 Right: -18.777+/-0.000  $\chi^2/\text{NDF}$ : 227074266812784  
 Left Out: 817.239+/-0.000  $\chi^2/\text{NDF}$ : 49942482269119198529888239758950268928.0/11  
 In: 45.308+/-0.000  $\chi^2/\text{NDF}$ : 170703212048580297  
 Right Out: -1128.051+/-0.000  $\chi^2/\text{NDF}$ : 216680110329654752465971394746324615168.0/17  
 Out: -39.215+/-0.000  $\chi^2/\text{NDF}$ : 1781064318576625  
 Left In: -757.110+/-0.000  $\chi^2/\text{NDF}$ : 30838574623639063731513645765836668928.0/10  
 All: 3.085+/-0.000  $\chi^2/\text{NDF}$ : 34939028528158

dit\_sam2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



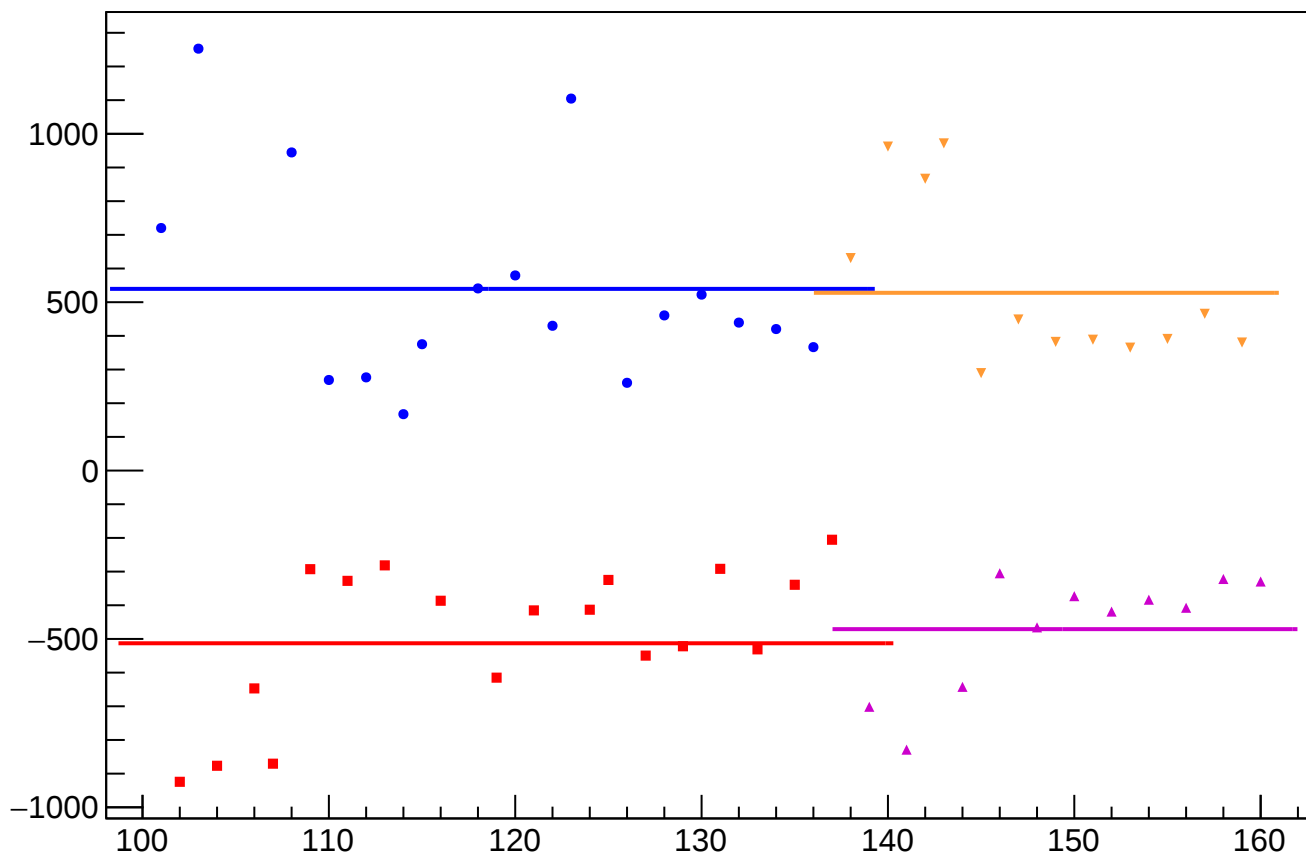
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_sam3\_coil4\_mean vs Slug, Sign Corrected



Right In: 3168.399 $\pm$ 0.000  $\chi^2$ /NDF: 1758554525431486031573031760874625302528.0/16  
 Left Out: 3747.596 $\pm$ 0.000  $\chi^2$ /NDF: 238995509272824091169755194048479494144.0/11  
 Right Out: -2979.505 $\pm$ 0.000  $\chi^2$ /NDF: 1604891244832822830292138533265256480768.0/17  
 Left In: -3948.419 $\pm$ 0.000  $\chi^2$ /NDF: 56222692399509421042001989393274896384.0/10  
 All: -64.222 $\pm$ 0.000  $\chi^2$ /NDF: 442714340176

dit\_sam3\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 539.553+/-0.000  $\chi^2/\text{NDF}$ : 54885482787684067638945528690813960192.0/16

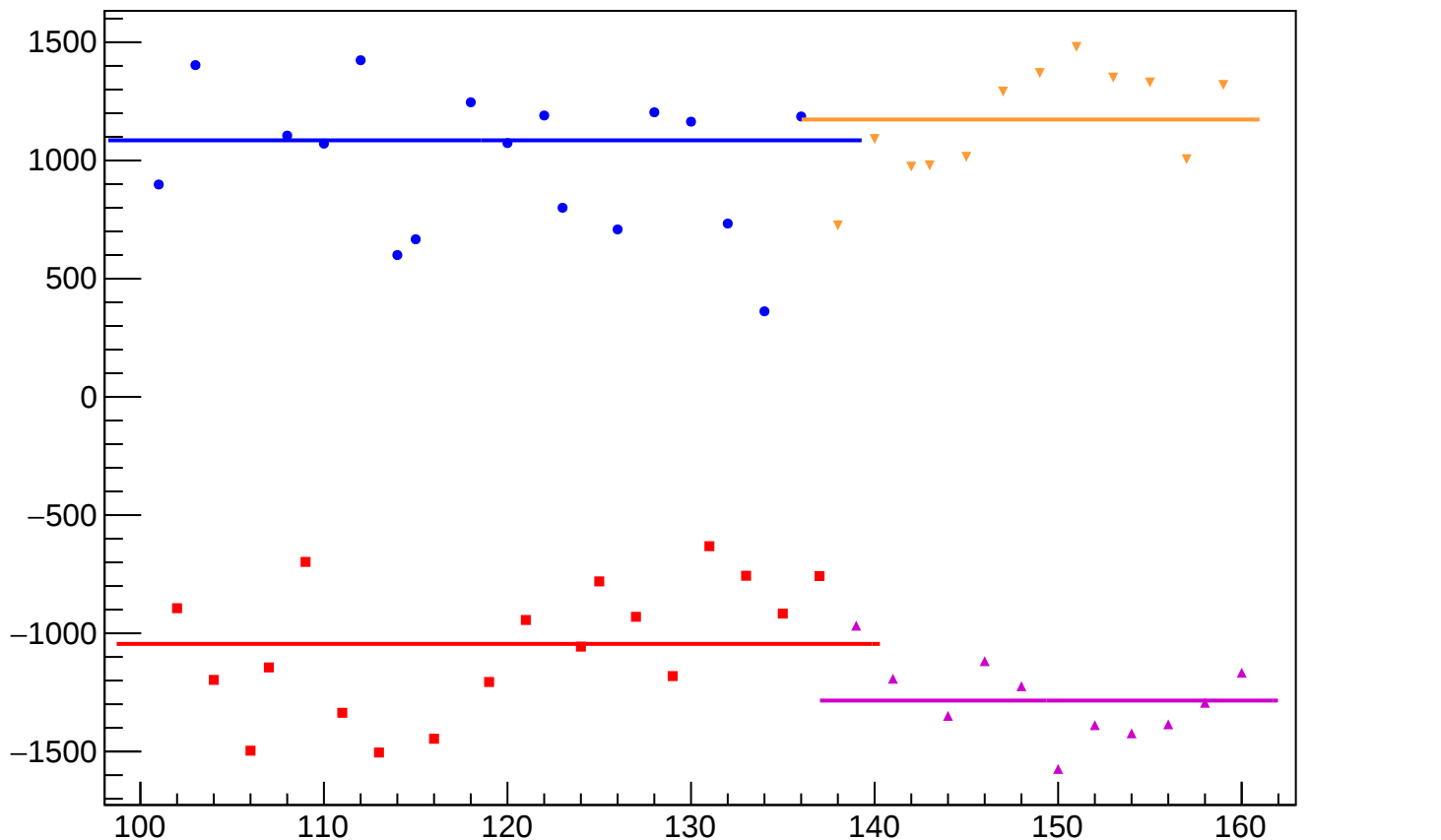
Left Out: 527.872+/-0.000  $\chi^2/\text{NDF}$ : 487501446117202302366636740746149888.0/11

Right Out: -512.868+/-0.000  $\chi^2/\text{NDF}$ : 36013592539821220444279901122721742848.0/17

Left In: -470.909+/-0.000  $\chi^2/\text{NDF}$ : 25659671763739065949342929962819125248.0/10

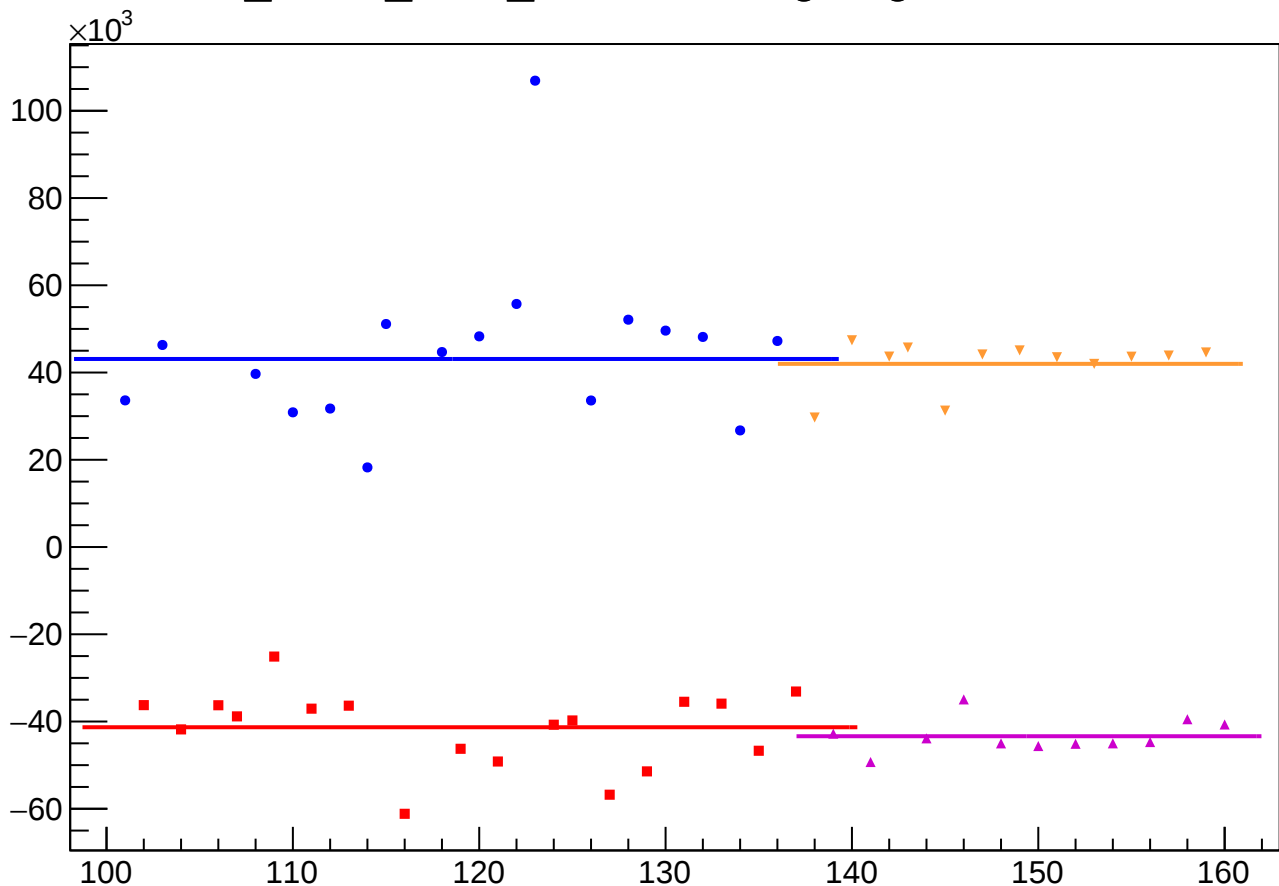
All: 14.834+/-0.000  $\chi^2/\text{NDF}$ : 1014887597497

dit\_sam3\_coil4\_Ndata\_mean vs Slug, Sign Corrected



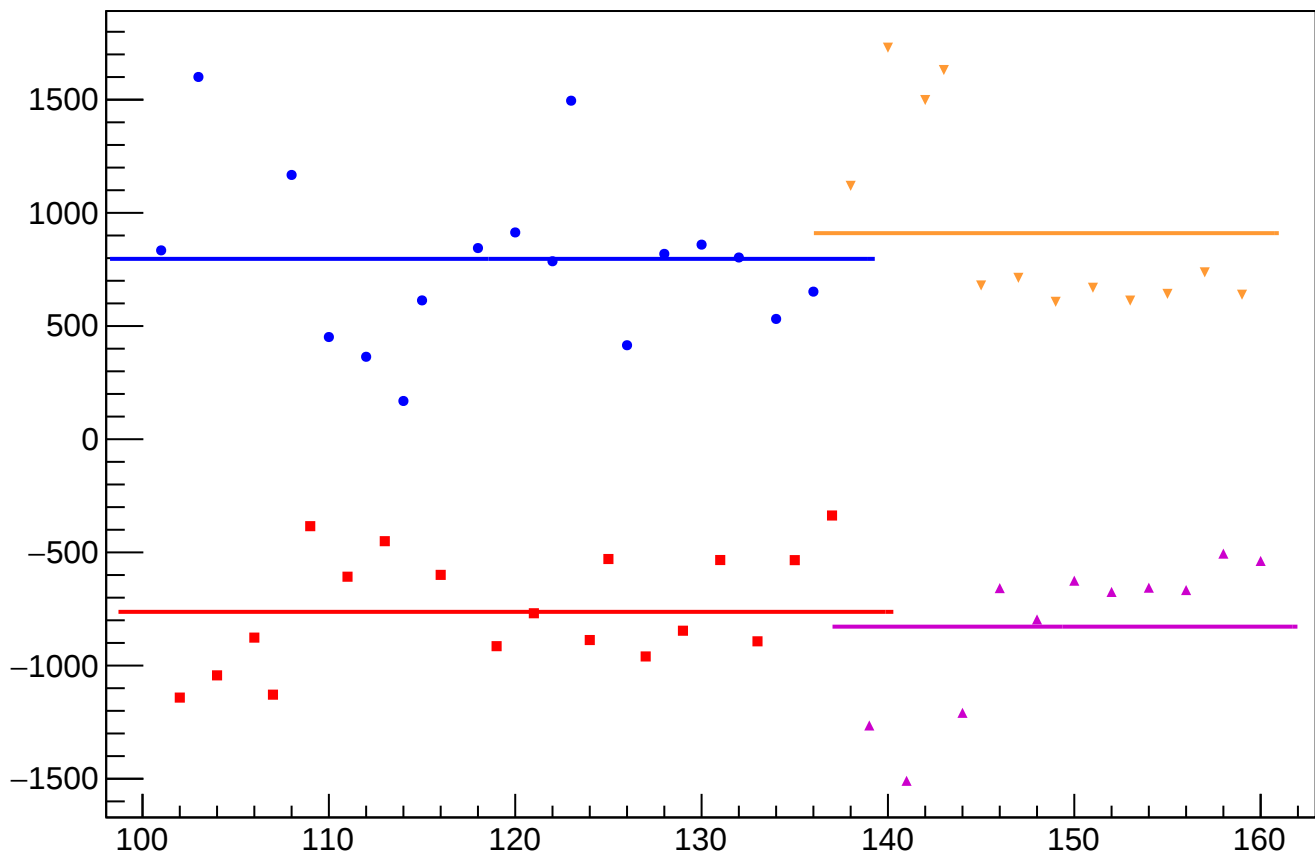
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

dit\_sam4\_coil4\_mean vs Slug, Sign Corrected



Right In: 43108.031 $\pm$ 0.000  $\chi^2$ /NDF: 68611682581967867390827070514847106990080.0/16  
 Left Out: 41988.937 $\pm$ 0.000  $\chi^2$ /NDF: 26595625315184876661727332300070884212736.0/11  
 Right Out: -41313.091 $\pm$ 0.000  $\chi^2$ /NDF: 51625009130500845485657820618169448923136.0/17  
 Left In: -43372.857 $\pm$ 0.000  $\chi^2$ /NDF: 12091187656502960448848492579917477707776.0/10  
 All: -590.839 $\pm$ 0.000  $\chi^2$ /NDF: 60255874711

# dit\_sam4\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 796.788+/-0.000

$\chi^2/\text{NDF}$ : 74155375401966789010322999397605965824.0/16

Left Out: 910.363+/-0.000

$\chi^2/\text{NDF}$ : 150023970715127091011215524166165856256.0/11

Right Out: -762.642+/-0.000

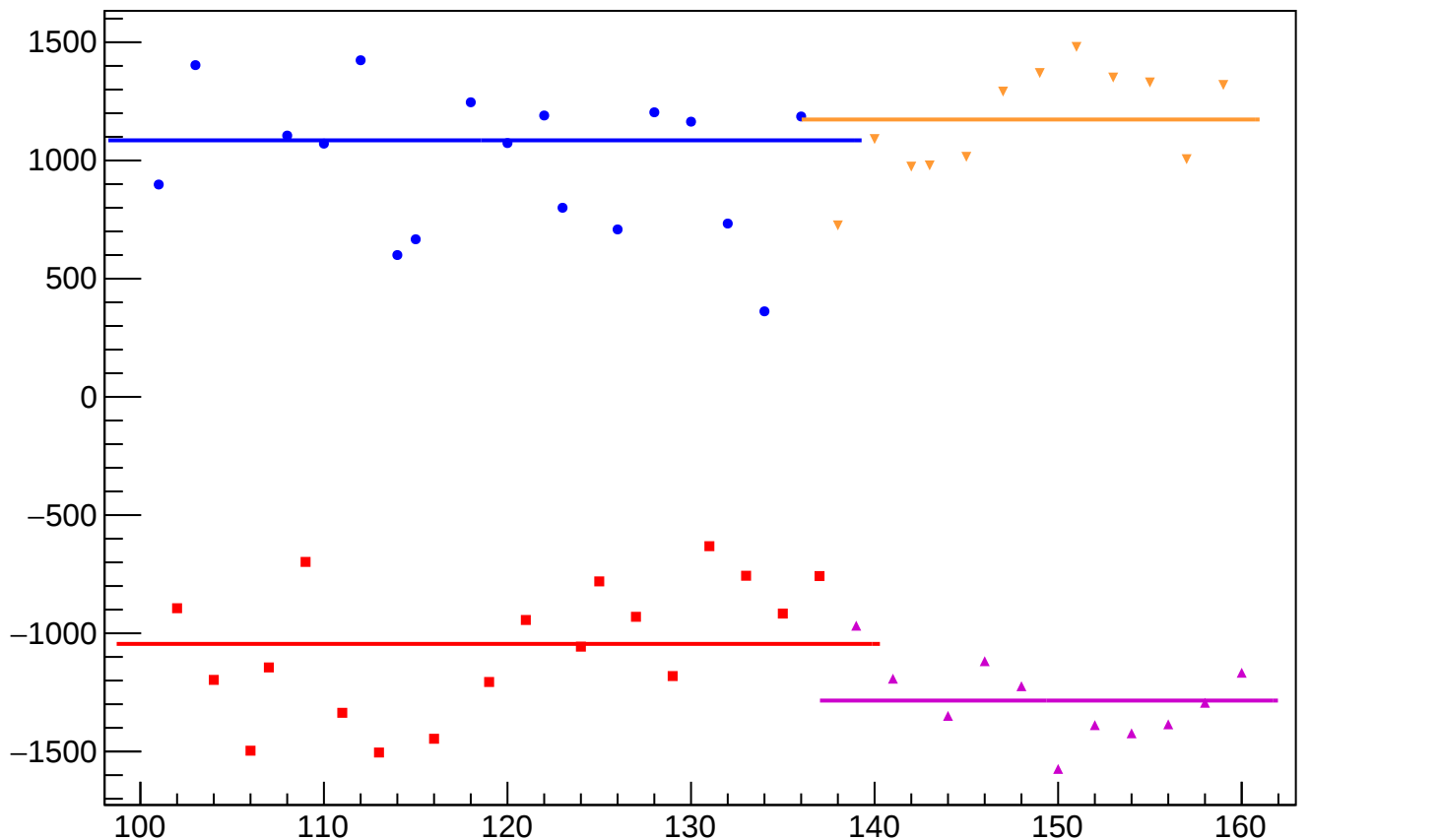
$\chi^2/\text{NDF}$ : 44999366783777016136570300173215858688.0/17

Left In: -828.047+/-0.000

$\chi^2/\text{NDF}$ : 96201297506087070099989263222619242496.0/10

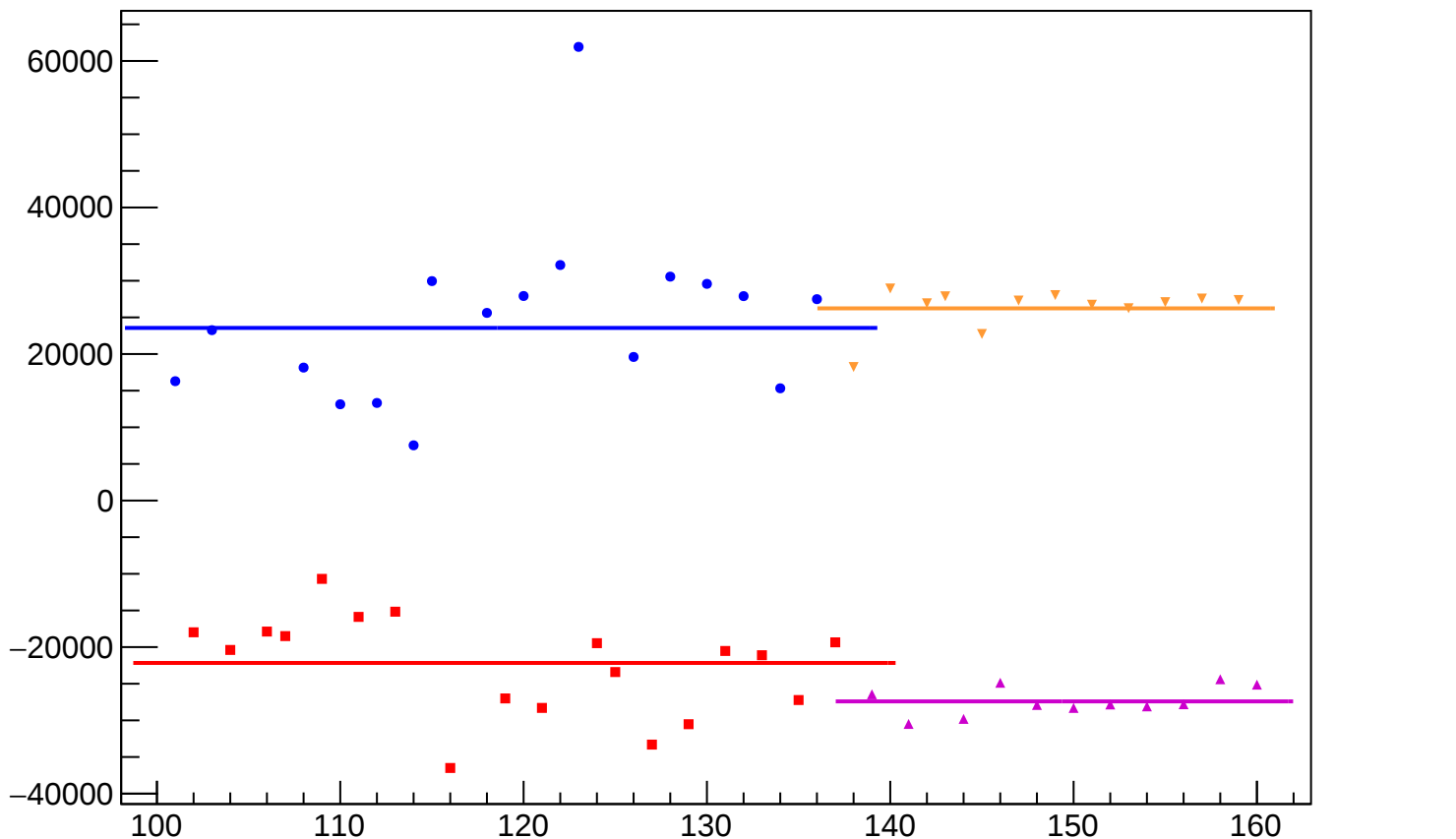
All: 19.266+/-0.000  $\chi^2/\text{NDF}$ : 2613699813863

dit\_sam4\_coil4\_Ndata\_mean vs Slug, Sign Corrected



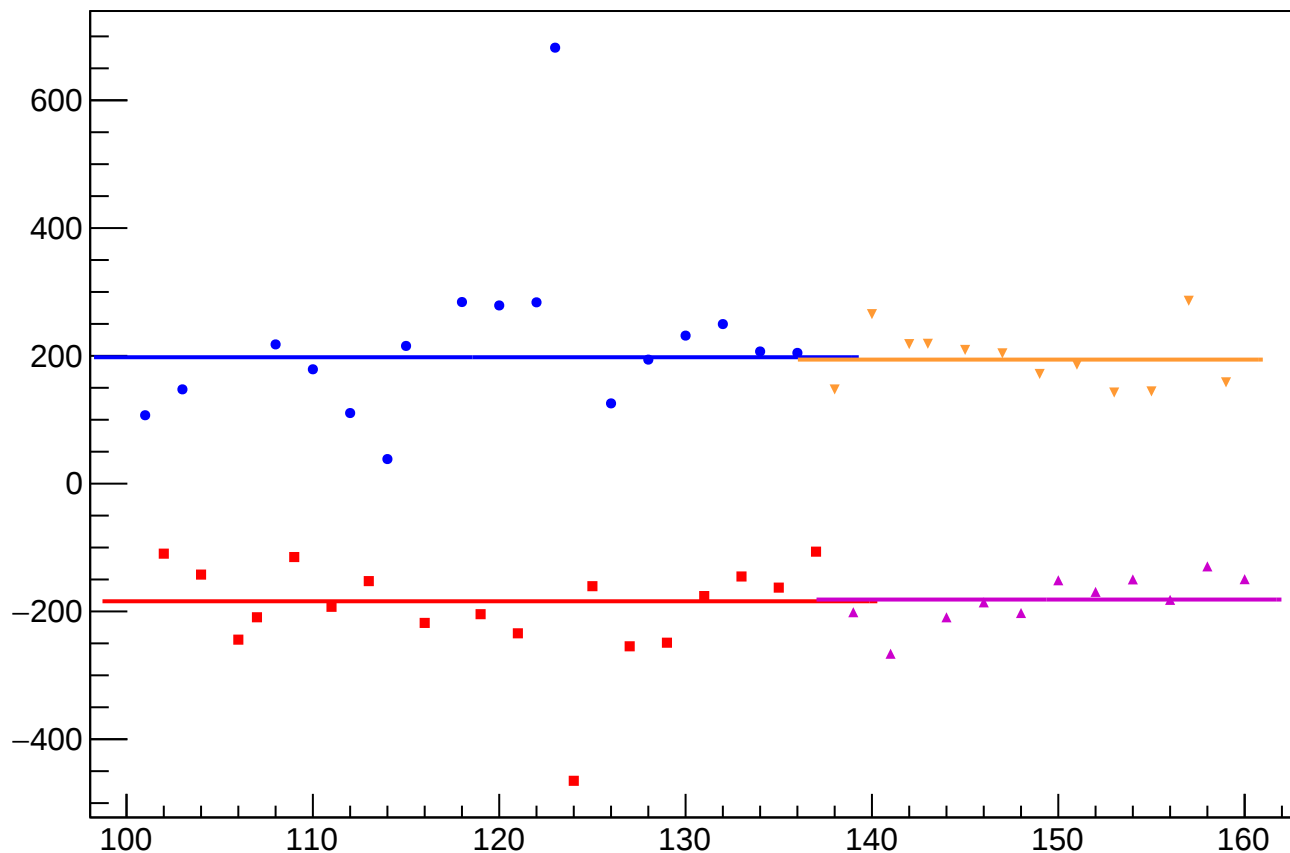
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

dit\_sam5\_coil4\_mean vs Slug, Sign Corrected



Right In: 23563.217+/-0.000  $\chi^2/\text{NDF}$ : 35385807137271018817625418232540839280640.0/16  
 Left Out: 26232.941+/-0.000  $\chi^2/\text{NDF}$ : 7436306383754098156934386282018195374080.0/11  
 Right Out: -22162.506+/-0.000  $\chi^2/\text{NDF}$ : 30926817479017578857864317291139006726144.0/17  
 Left In: -27409.308+/-0.000  $\chi^2/\text{NDF}$ : 3260068033865796960082272162296933384192.0/10  
 All: -375.411+/-0.000  $\chi^2/\text{NDF}$ : 21395474548

dit\_sam5\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 197.841+/-0.000

$\chi^2/\text{NDF}$ : 3601849103427594359827693165900464128.0/16

Left Out: 194.146+/-0.000

$\chi^2/\text{NDF}$ : 1879017279218446114091371157486829568.0/11

Right Out: -184.108+/-0.000

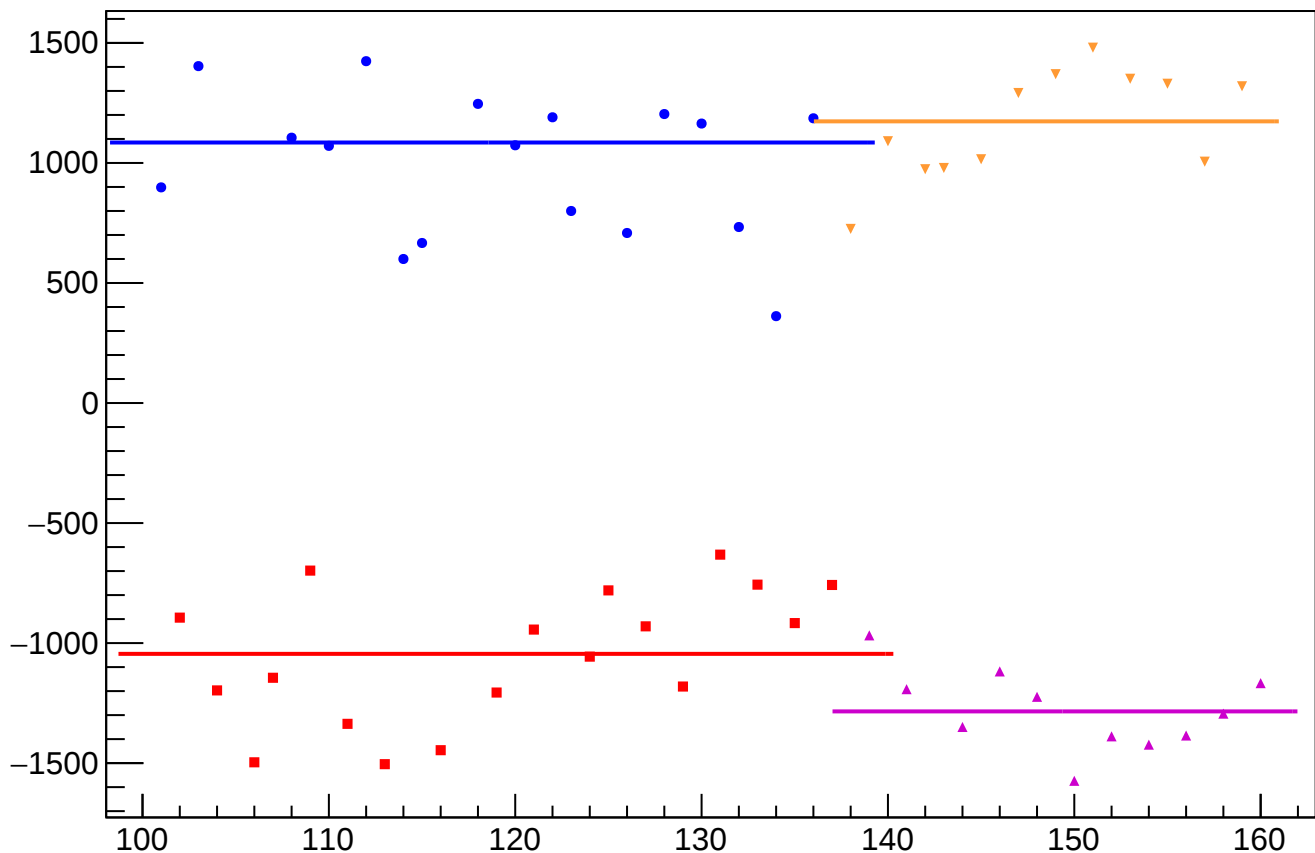
$\chi^2/\text{NDF}$ : 2706165724913072523706132651898306560.0/17

Left In: -181.409+/-0.000

$\chi^2/\text{NDF}$ : 1237326176797583481368716307739967488.0/10

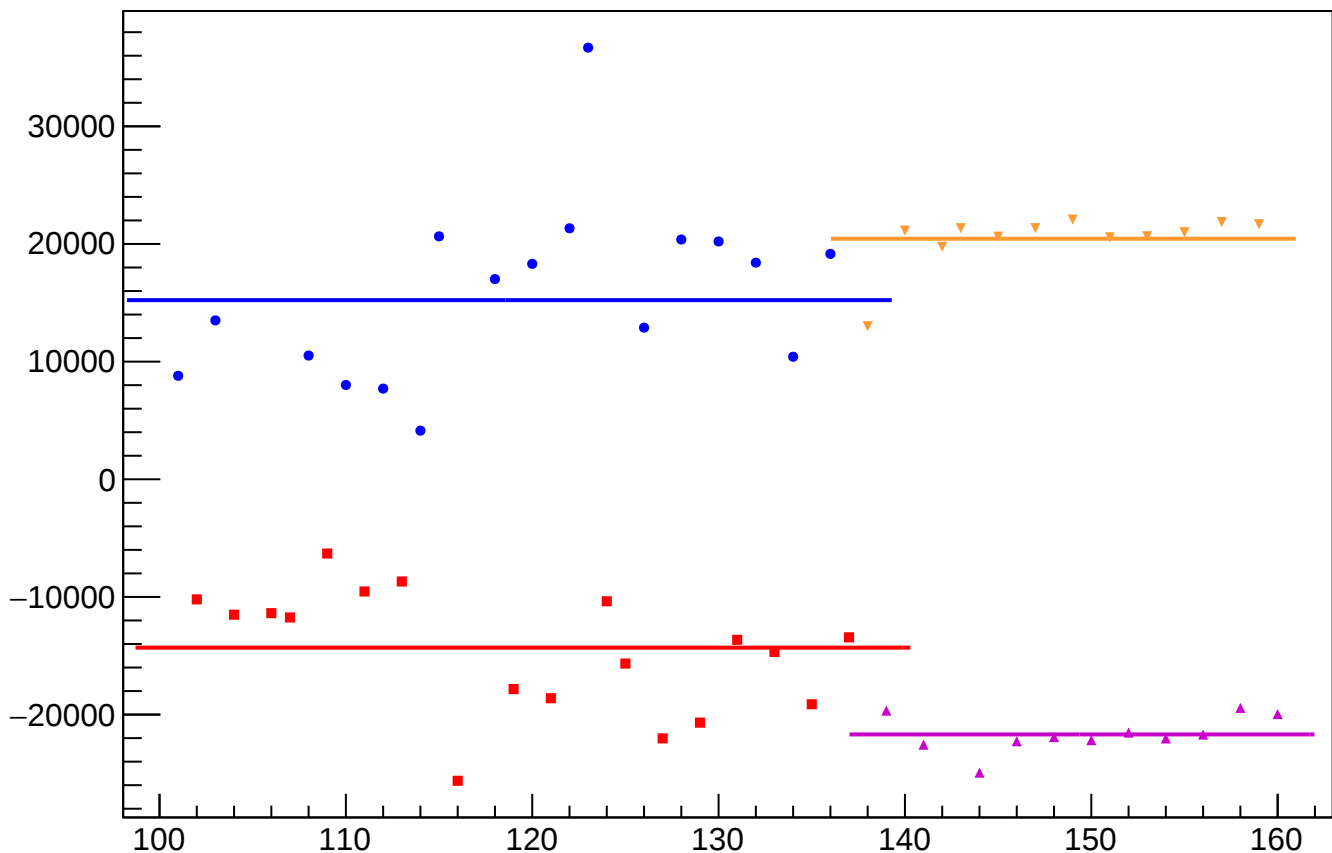
Left: 3.922+/-0.000  $\chi^2/\text{NDF}$ : 680547634341242532  
 Right: 4.020+/-0.000  $\chi^2/\text{NDF}$ : 57684682342329380  
 In: -19.639+/-0.000  $\chi^2/\text{NDF}$ : 62079772857917457  
 Out: 27.612+/-0.000  $\chi^2/\text{NDF}$ : 61845128959738000  
 All: 3.965+/-0.000  $\chi^2/\text{NDF}$ : 12573945346954

dit\_sam5\_coil4\_Ndata\_mean vs Slug, Sign Corrected



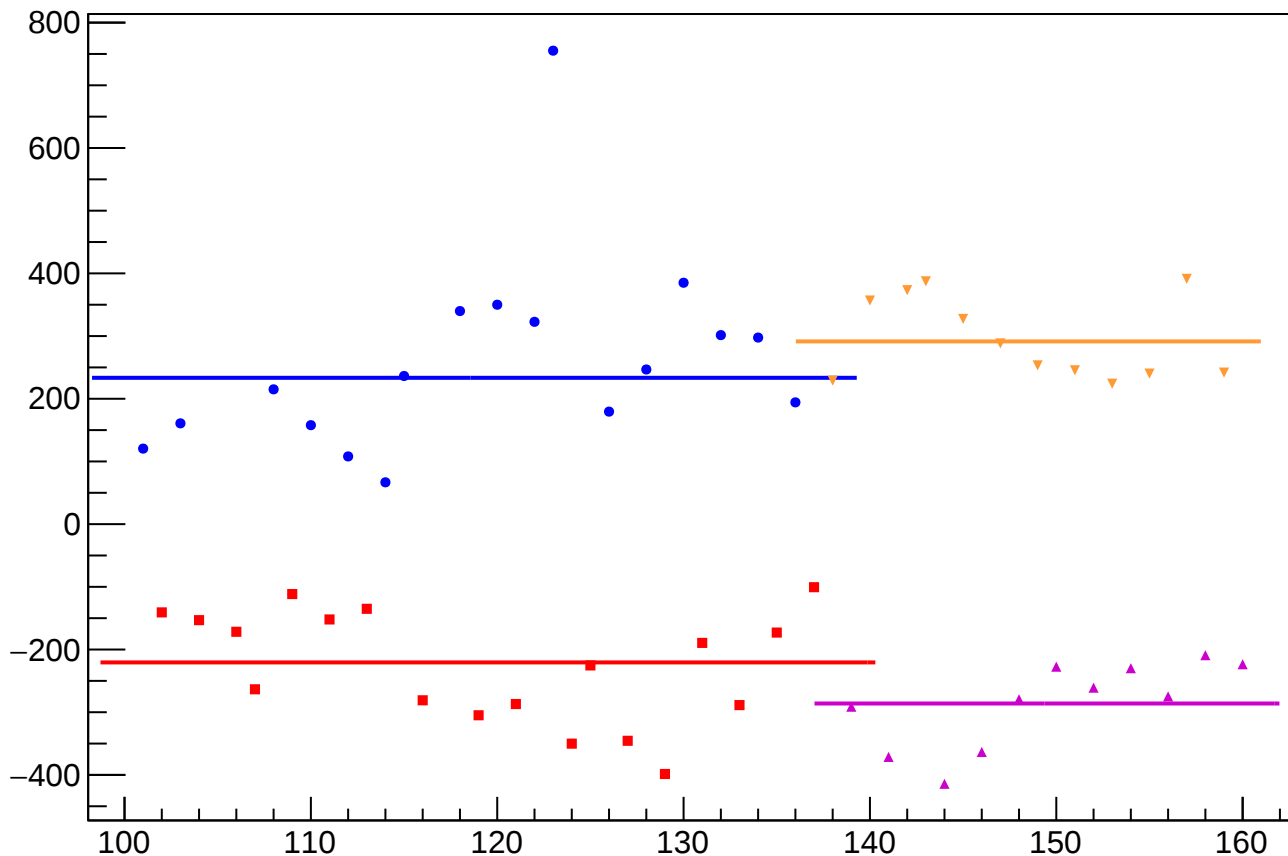
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_sam6\_coil4\_mean vs Slug, Sign Corrected



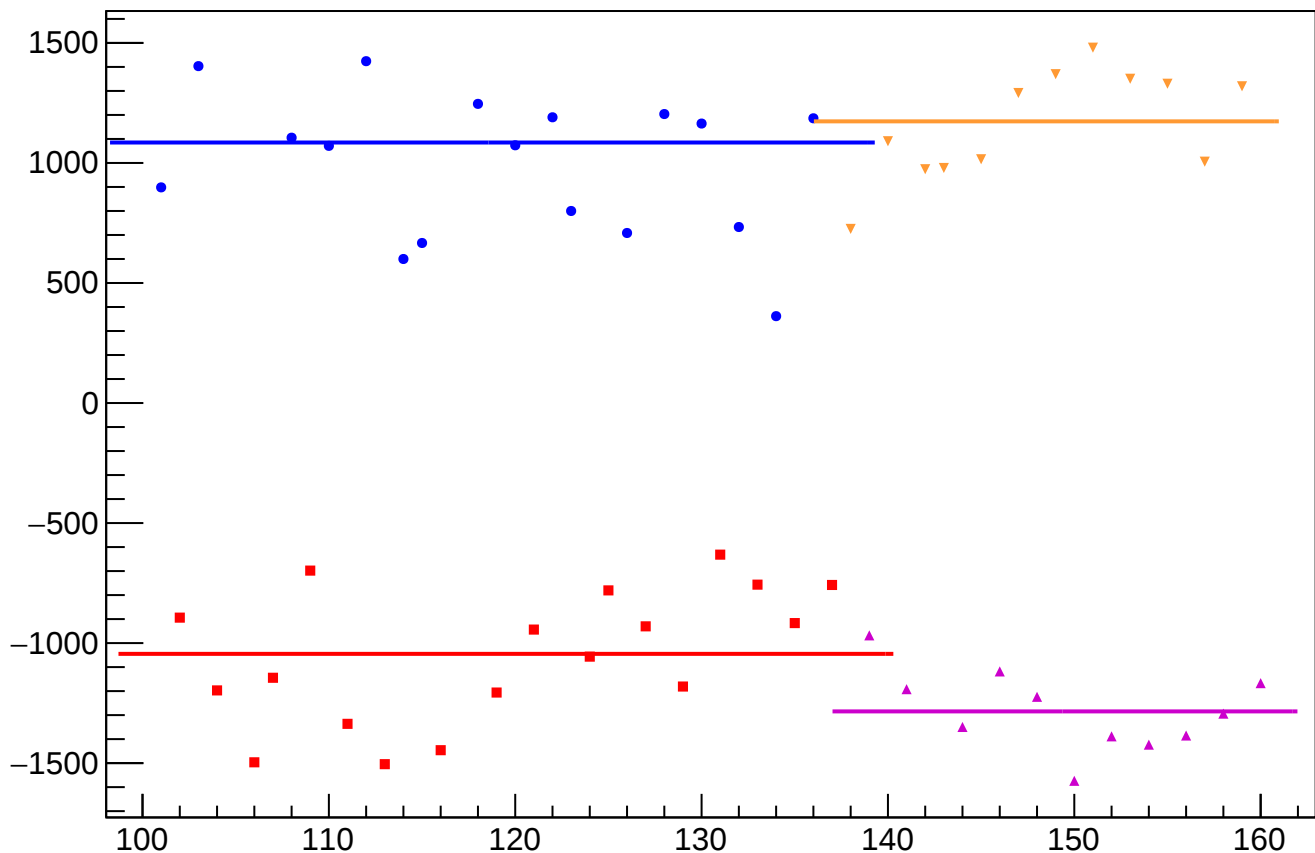
Right In: 15226.152+/-0.000  $\chi^2/\text{NDF}$ : 19033981883616318675707973818231845552128.0/16  
 Left Out: 20444.904+/-0.000  $\chi^2/\text{NDF}$ : 5015541788113107499549833018825777348608.0/11  
 Right Out: -14308.618+/-0.000  $\chi^2/\text{NDF}$ : 17986620092143727991108175714996656799744.0/17  
 Left In: -21685.940+/-0.000  $\chi^2/\text{NDF}$ : 2061414370106068569162415723838611390464.0/10  
 All: -403.653+/-0.000  $\chi^2/\text{NDF}$ : 11695762959

dit\_sam6\_coil4\_err\_mean vs Slug, Sign Corrected



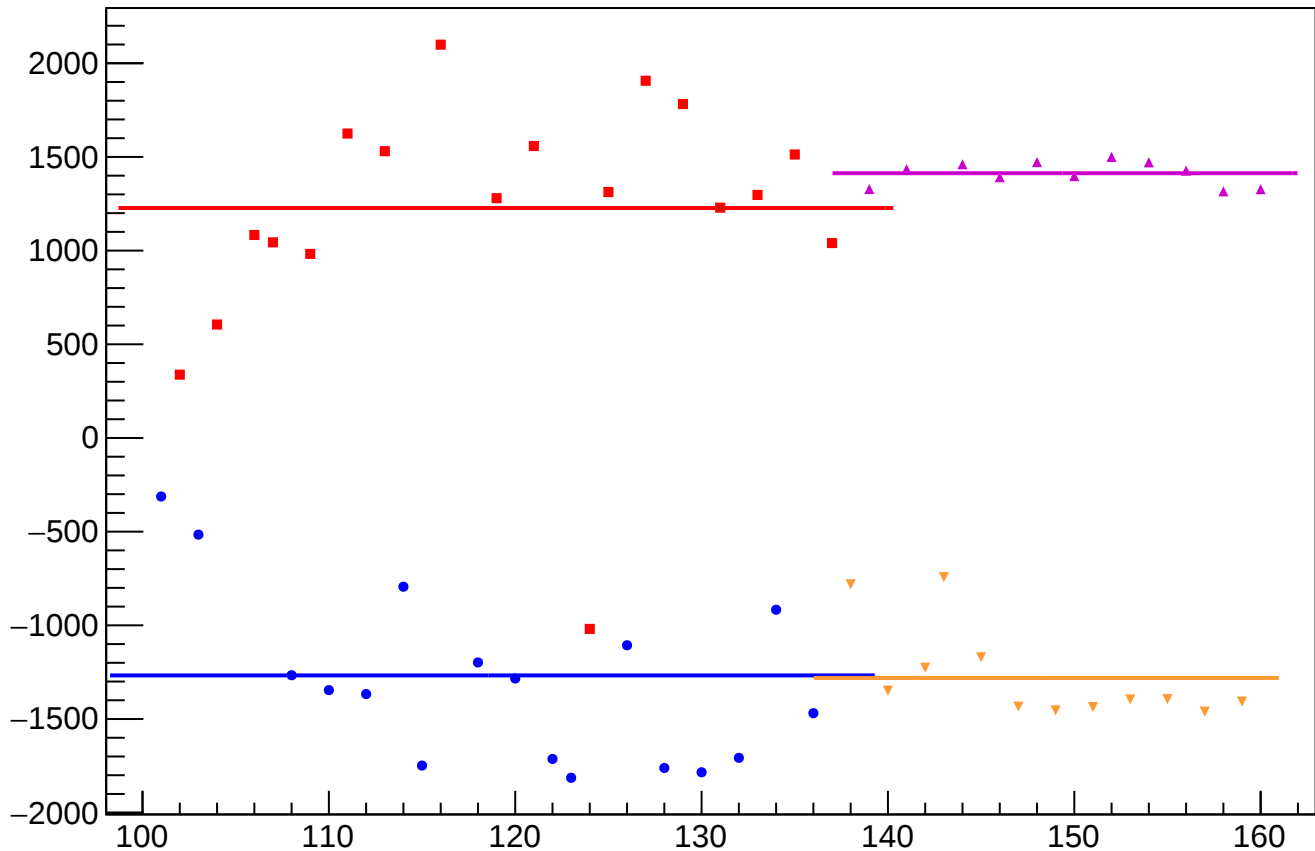
Right In: 233.427 $\pm$ 0.000  $\chi^2$ /NDF: 6632421375389201944932770217893822464.0/16  
 Left Out: 291.492 $\pm$ 0.000  $\chi^2$ /NDF: 3496936665449814929425245861490720768.0/11  
 Right Out: -220.559 $\pm$ 0.000  $\chi^2$ /NDF: 5383695019108554854360648047063465984.0/17  
 Left In: -286.089 $\pm$ 0.000  $\chi^2$ /NDF: 4047639086763227768293546604548325376.0/10  
 All: 0.721 $\pm$ 0.000  $\chi^2$ /NDF: 24575467022547

dit\_sam6\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: -71.638+/-0.000              | $\chi^2/\text{NDF}$ : 2847965876858153  |
| Left Out: 1173.287+/-0.000   | $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11 | Right: 4.294+/-0.000               | $\chi^2/\text{NDF}$ : 16932734928141311 |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17 | In: -273.729+/-0.000               | $\chi^2/\text{NDF}$ : 2303517069122456  |
| Left In: -1284.540+/-0.000   | $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10 | Out: 196.705+/-0.000               | $\chi^2/\text{NDF}$ : 2062457208179950  |
|                              | All: -38.729+/-0.000                                              | $\chi^2/\text{NDF}$ : 454584232037 |                                         |

dit\_sam7\_coil4\_mean vs Slug, Sign Corrected



Right In: -1267.268+/-0.000

Left Out: -1280.919+/-0.000

Right Out: 1227.490+/-0.000

Left In: 1413.098+/-0.000

$\chi^2/\text{NDF}$ : 145198686124385842675248081831068696576.0/16

$\chi^2/\text{NDF}$ : 52350467274887830805489203247275048960.0/11

$\chi^2/\text{NDF}$ : 214319050187910672698323609340044378112.0/17

$\chi^2/\text{NDF}$ : 3510654626311902880652773562800668672.0/10

Left: 83.640+/-0.000  $\chi^2/\text{NDF}$ : 33974772018165182

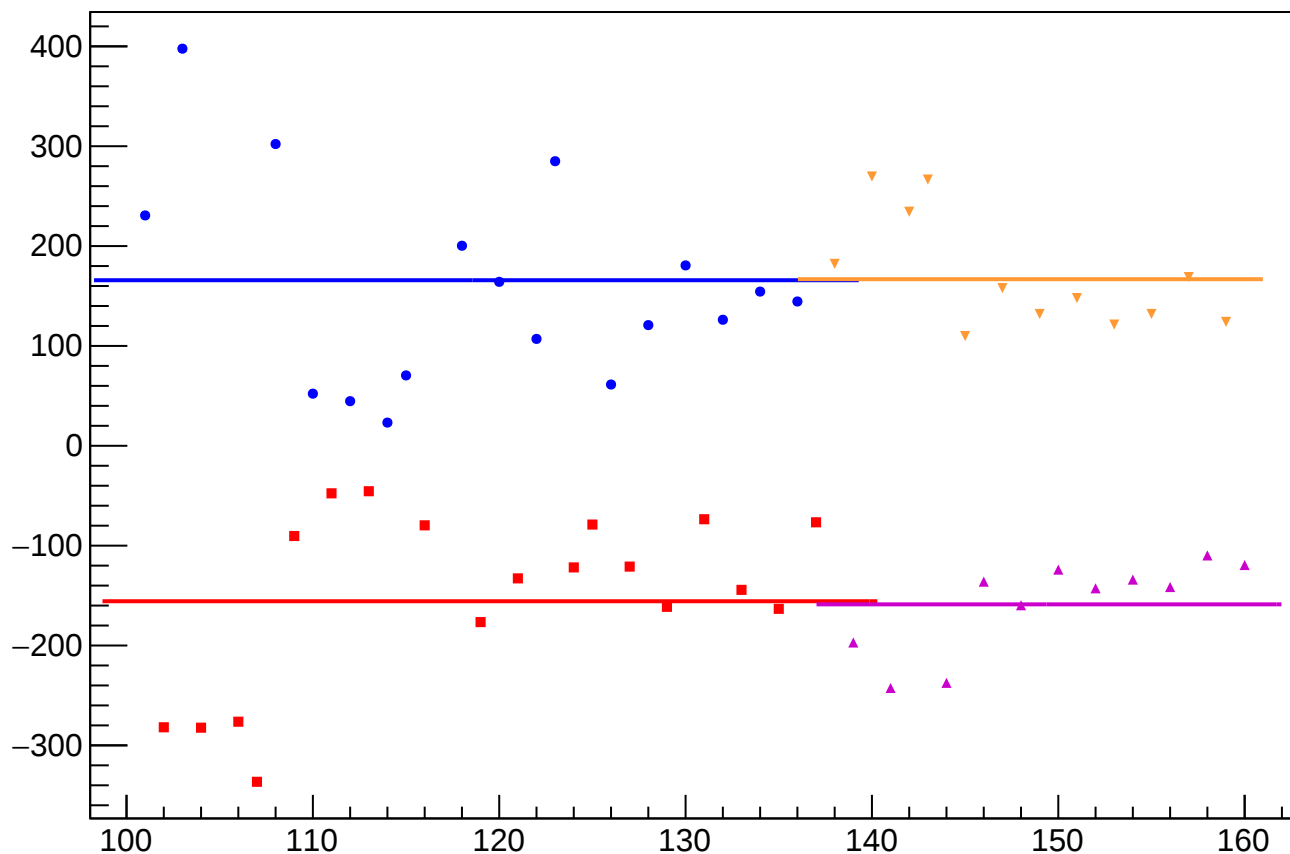
Right: -1.298+/-0.000  $\chi^2/\text{NDF}$ : 2551370593421750

In: 269.783+/-0.000  $\chi^2/\text{NDF}$ : 30078924023770430

Out: -176.539+/-0.000  $\chi^2/\text{NDF}$ : 278481258910852

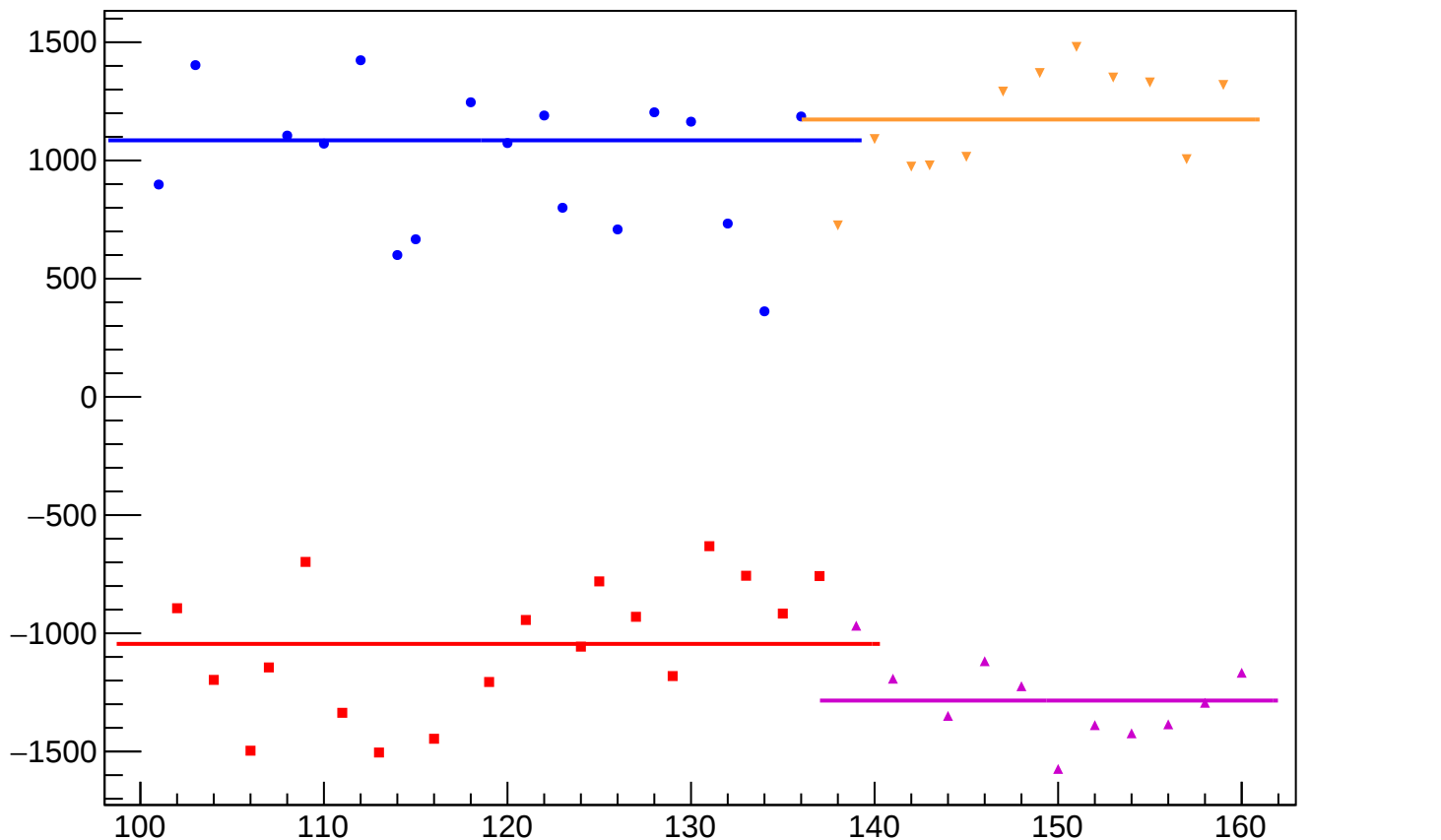
All: 46.827+/-0.000  $\chi^2/\text{NDF}$ : 5954607405275

dit\_sam7\_coil4\_err\_mean vs Slug, Sign Corrected



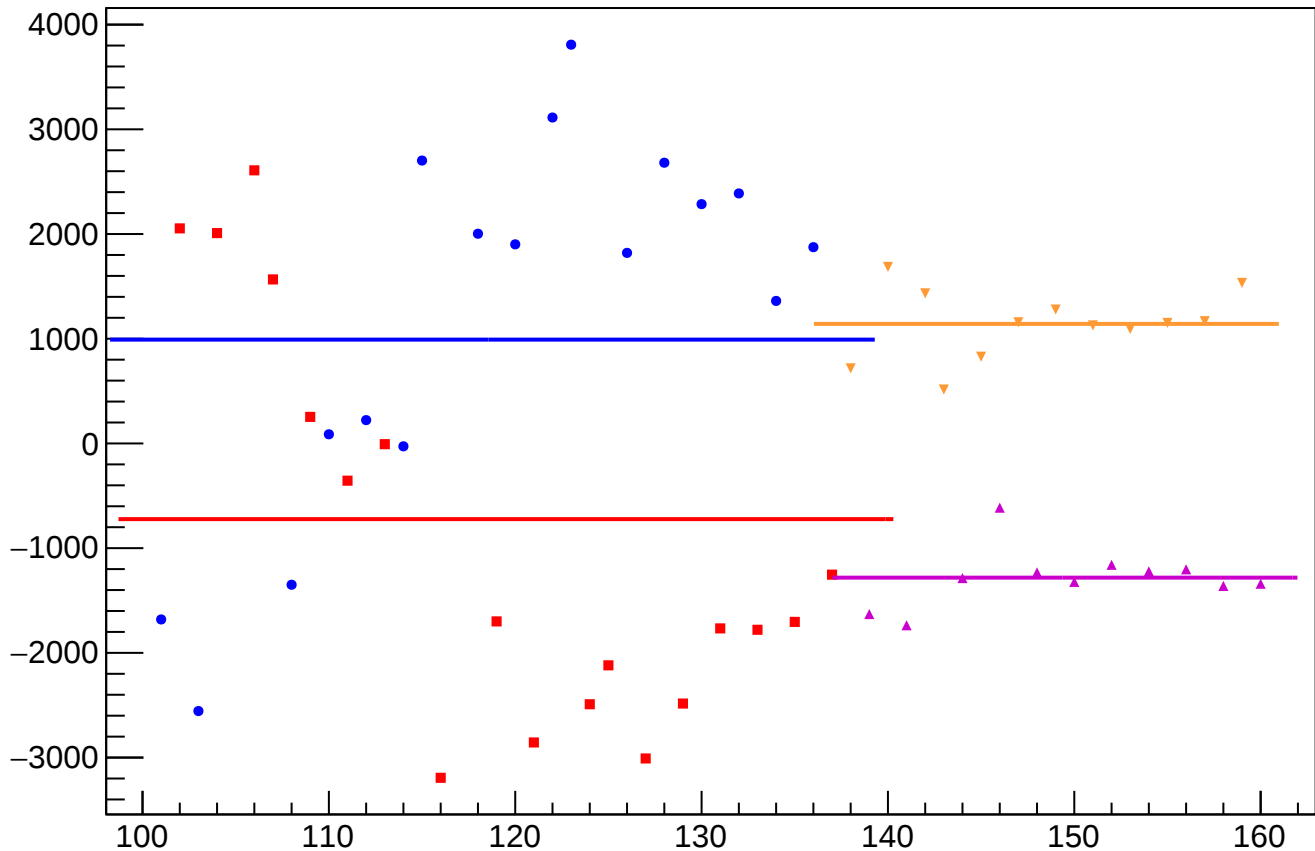
Right In: 165.791 $\pm$ 0.000  $\chi^2$ /NDF: 6599926309722586861325010177468923904.0/16  
 Left Out: 166.830 $\pm$ 0.000  $\chi^2$ /NDF: 2570249887219169860921416363043454976.0/11  
 Right Out: -155.674 $\pm$ 0.000  $\chi^2$ /NDF: 5506170000172026486696305926028132352.0/17  
 Left In: -158.786 $\pm$ 0.000  $\chi^2$ /NDF: 1841518274242064728634139939665084416.0/10  
 All: 2.231 $\pm$ 0.000  $\chi^2$ /NDF: 10172834754963

dit\_sam7\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_sam8\_coil4\_mean vs Slug, Sign Corrected



Right In: 991.656 +/- 0.000

$\chi^2/\text{NDF}$ : 2196543485135713219136059560633443549184.0/16

Left Out: 1141.755 +/- 0.000

$\chi^2/\text{NDF}$ : 90353942436830856594949216052979957760.0/11

Right Out: -722.834 +/- 0.000

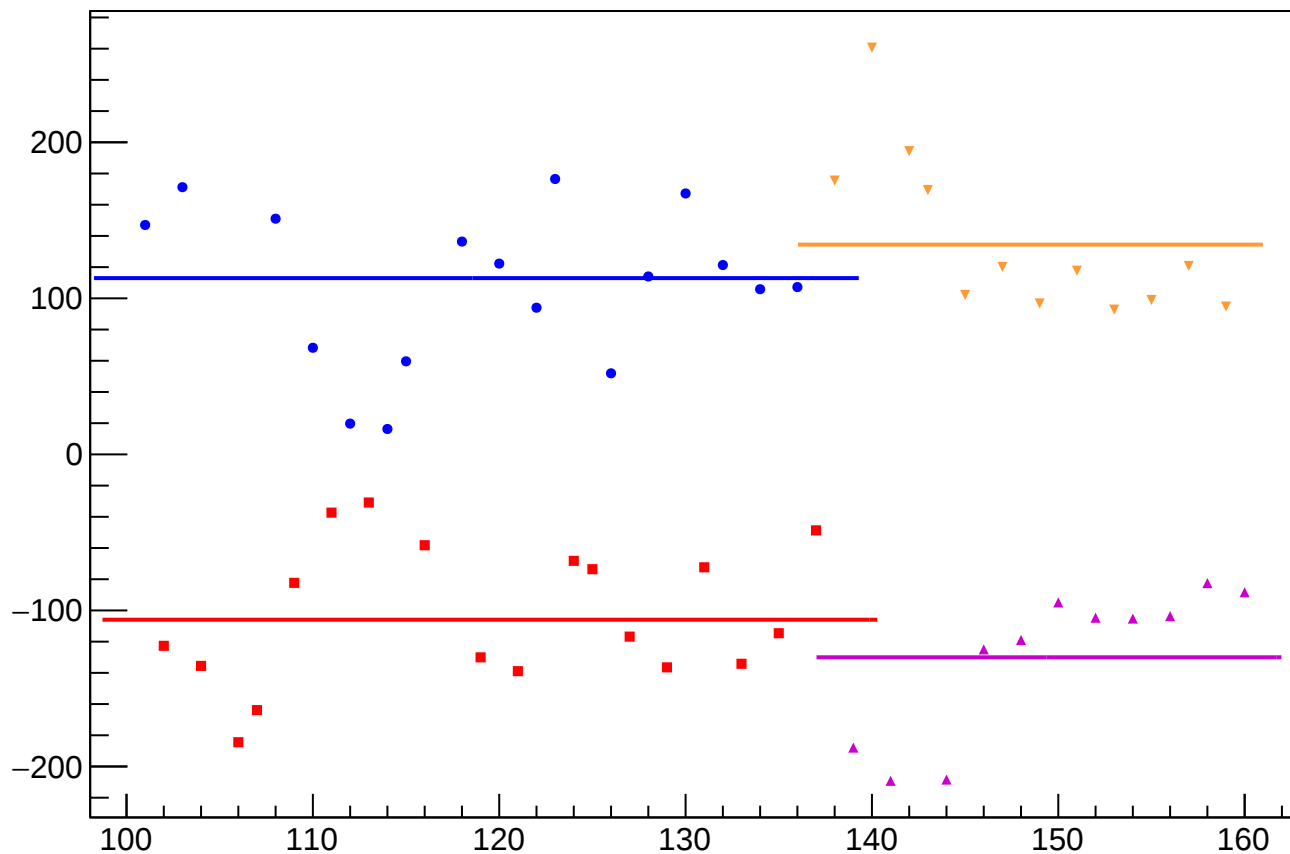
$\chi^2/\text{NDF}$ : 2430230107927732709008698791969328988160.0/17

Left In: -1281.659 +/- 0.000

$\chi^2/\text{NDF}$ : 67729567822989794442627212039346454528.0/10

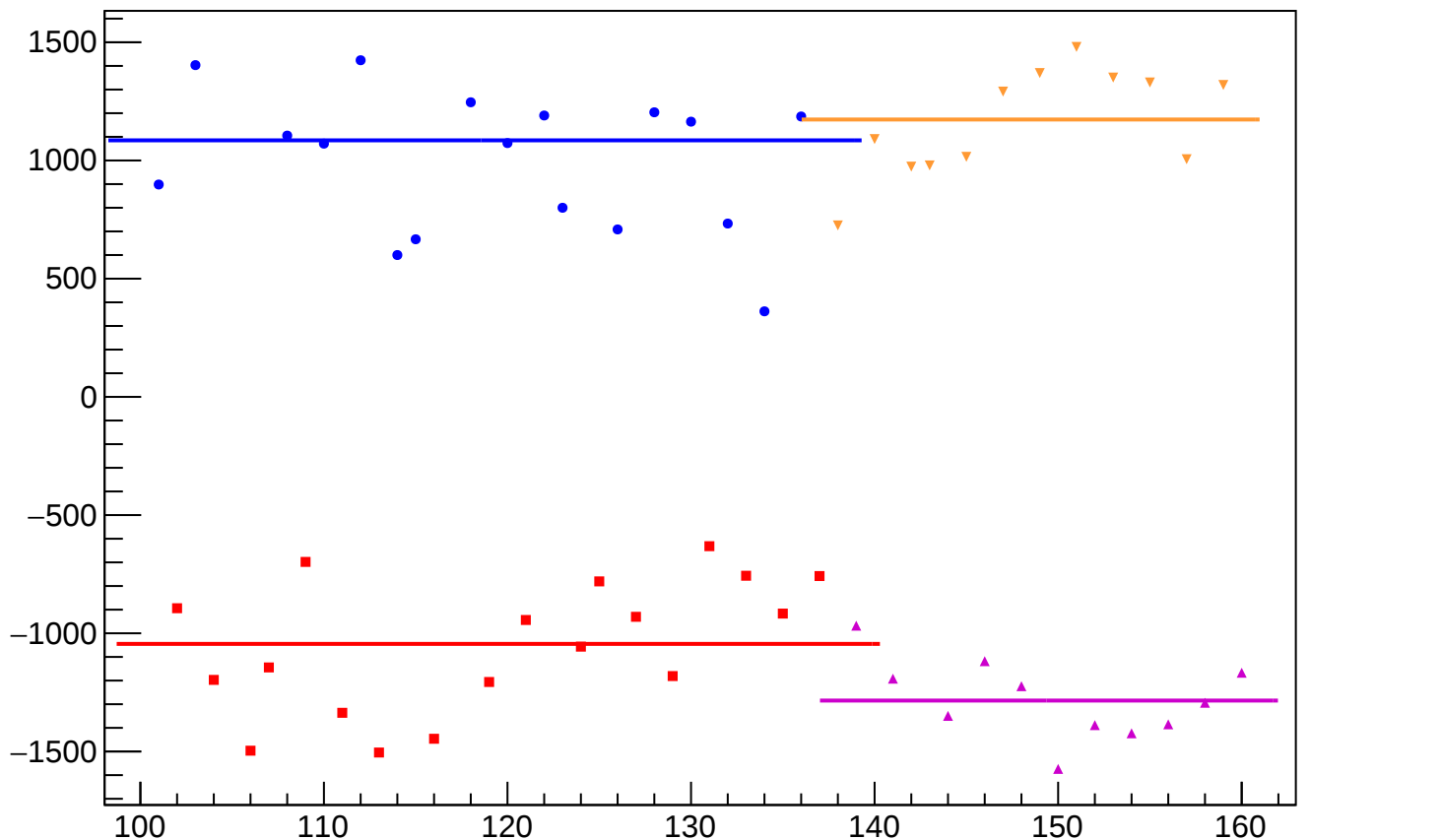
All: 4.137 +/- 0.000  $\chi^2/\text{NDF}$ : 85584155447109

dit\_sam8\_coil4\_err\_mean vs Slug, Sign Corrected



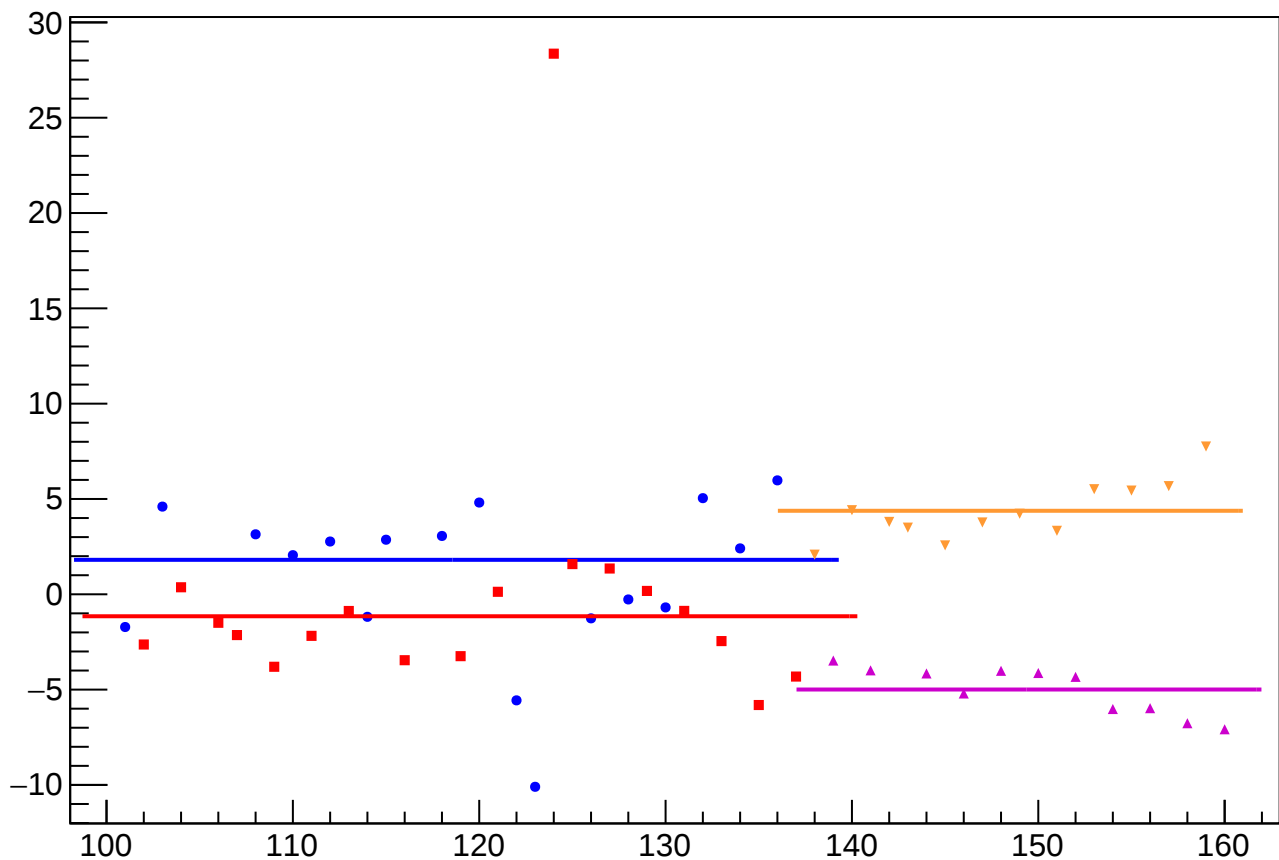
Right In: 112.967 $\pm$ 0.000  $\chi^2$ /NDF: 1352482381635393188272506664826961920.0/16  
 Left Out: 134.431 $\pm$ 0.000  $\chi^2$ /NDF: 2310662516274369890170239716283121664.0/11  
 Right Out: -105.949 $\pm$ 0.000  $\chi^2$ /NDF: 1242528444706792757388488213889286144.0/17  
 Left In: -130.030 $\pm$ 0.000  $\chi^2$ /NDF: 1968681434700847172167982931920289792.0/10  
 All: 1.084 $\pm$ 0.000  $\chi^2$ /NDF: 55955139764216

dit\_sam8\_coil4\_Ndata\_mean vs Slug, Sign Corrected



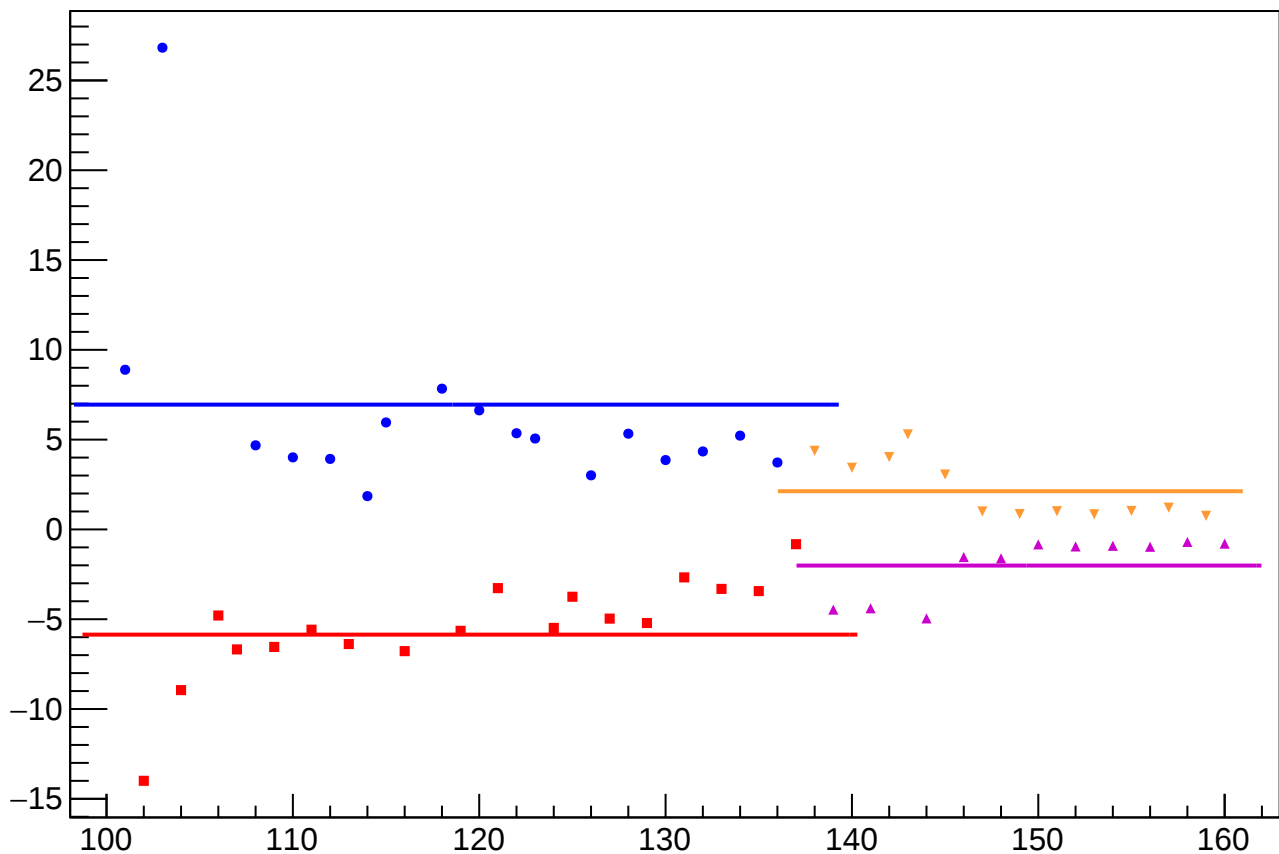
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540+/-0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729+/-0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_4aX\_coil6\_mean vs Slug, Sign Corrected



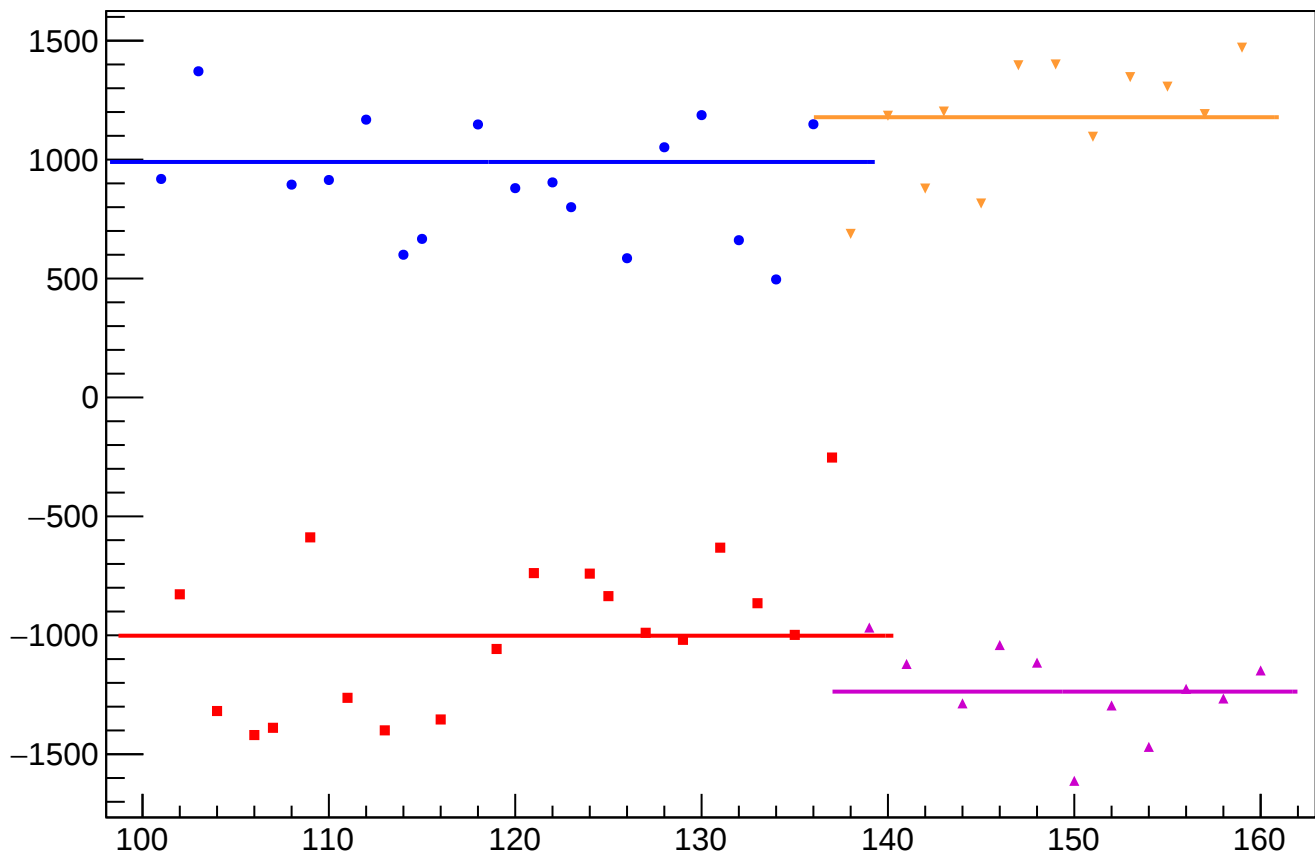
Right In:  $1.808 \pm 0.000$   $\chi^2/NDF: 7527409924358699638476786257362944.0/16$   
 Left Out:  $4.381 \pm 0.000$   $\chi^2/NDF: 2086443671311525325222433361920.0/11$   
 Right Out:  $-1.152 \pm 0.000$   $\chi^2/NDF: 15220659080427743810069153064157184.0/17$   
 Left In:  $-4.995 \pm 0.000$   $\chi^2/NDF: 1311384685098121552827321556140032.0/10$   
 All:  $-0.076 \pm 0.000$   $\chi^2/NDF: 7006983030788$

dit\_4aX\_coil6\_err\_mean vs Slug, Sign Corrected



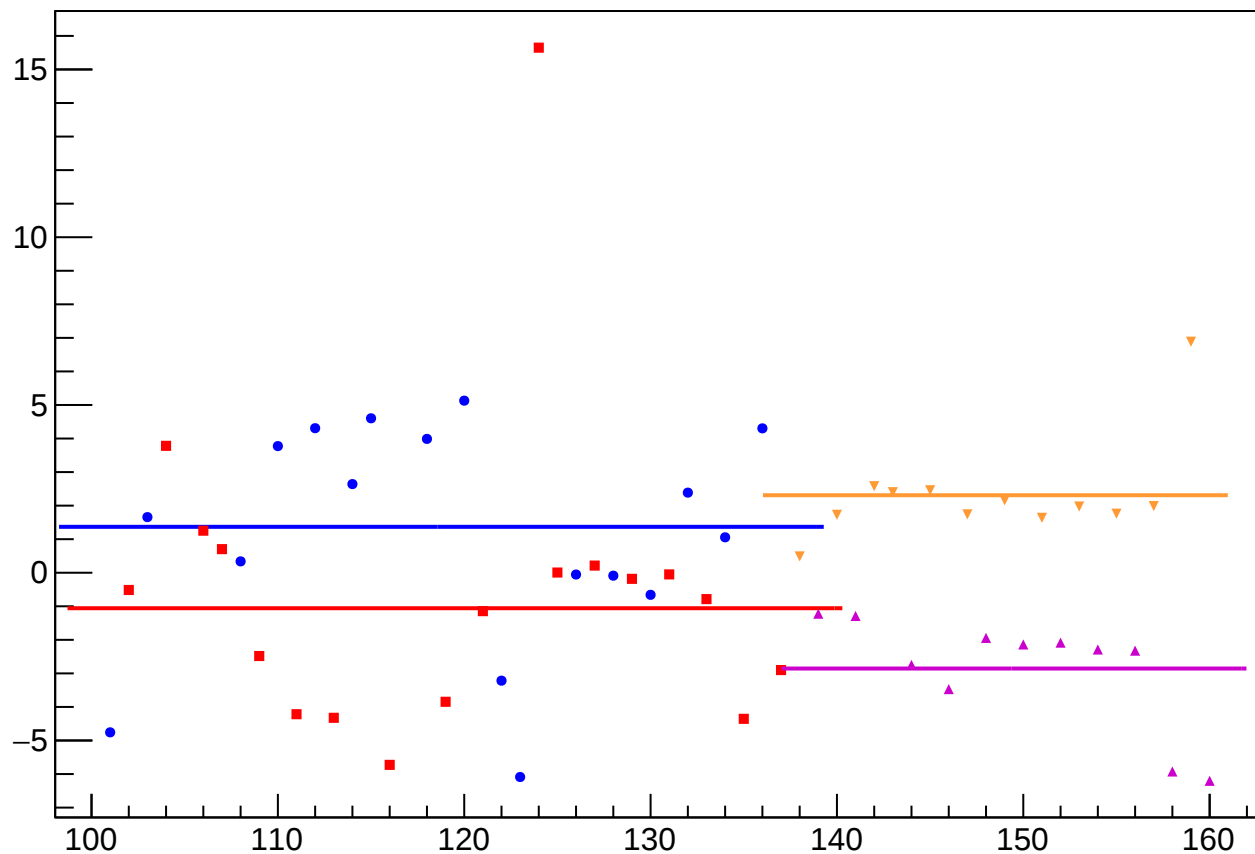
Right In:  $6.948 \pm 0.000$   $\chi^2/\text{NDF}: 27500472377838631302114625925939200.0/16$   
 Left Out:  $2.128 \pm 0.000$   $\chi^2/\text{NDF}: 2219193645273984606349154335064064.0/11$   
 Right Out:  $-5.858 \pm 0.000$   $\chi^2/\text{NDF}: 6347530911749266996807271930920960.0/17$   
 Left In:  $-2.012 \pm 0.000$   $\chi^2/\text{NDF}: 2455587486650389464574895818014720.0/10$   
 All:  $0.212 \pm 0.000$   $\chi^2/\text{NDF}: 10431206184614$

dit\_4aX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



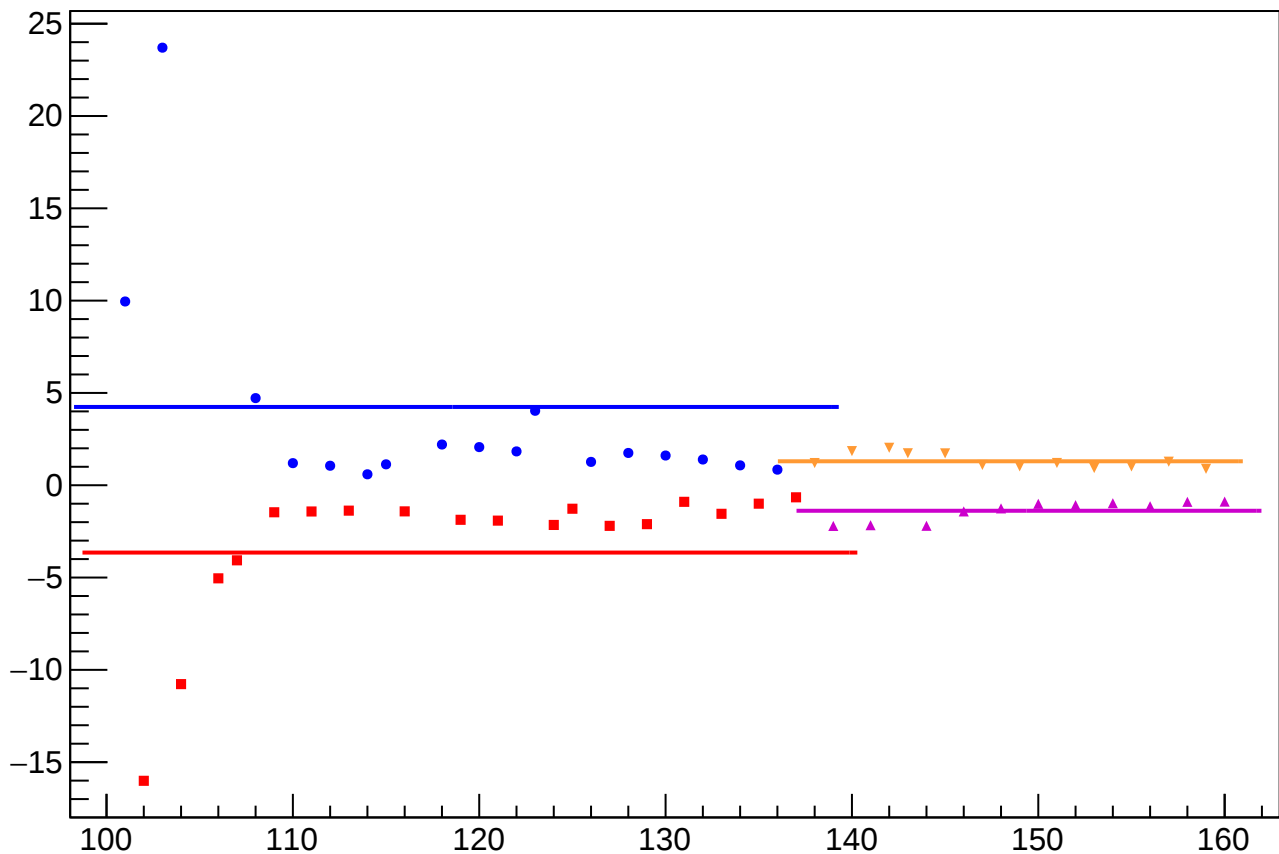
Left: -45.003+/-0.000  $\chi^2/\text{NDF}$ : 2767859757374114  
 Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 In: -286.905+/-0.000  $\chi^2/\text{NDF}$ : 2040776092386221  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Out: 218.490+/-0.000  $\chi^2/\text{NDF}$ : 2015349576700865  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_4eX\_coil6\_mean vs Slug, Sign Corrected



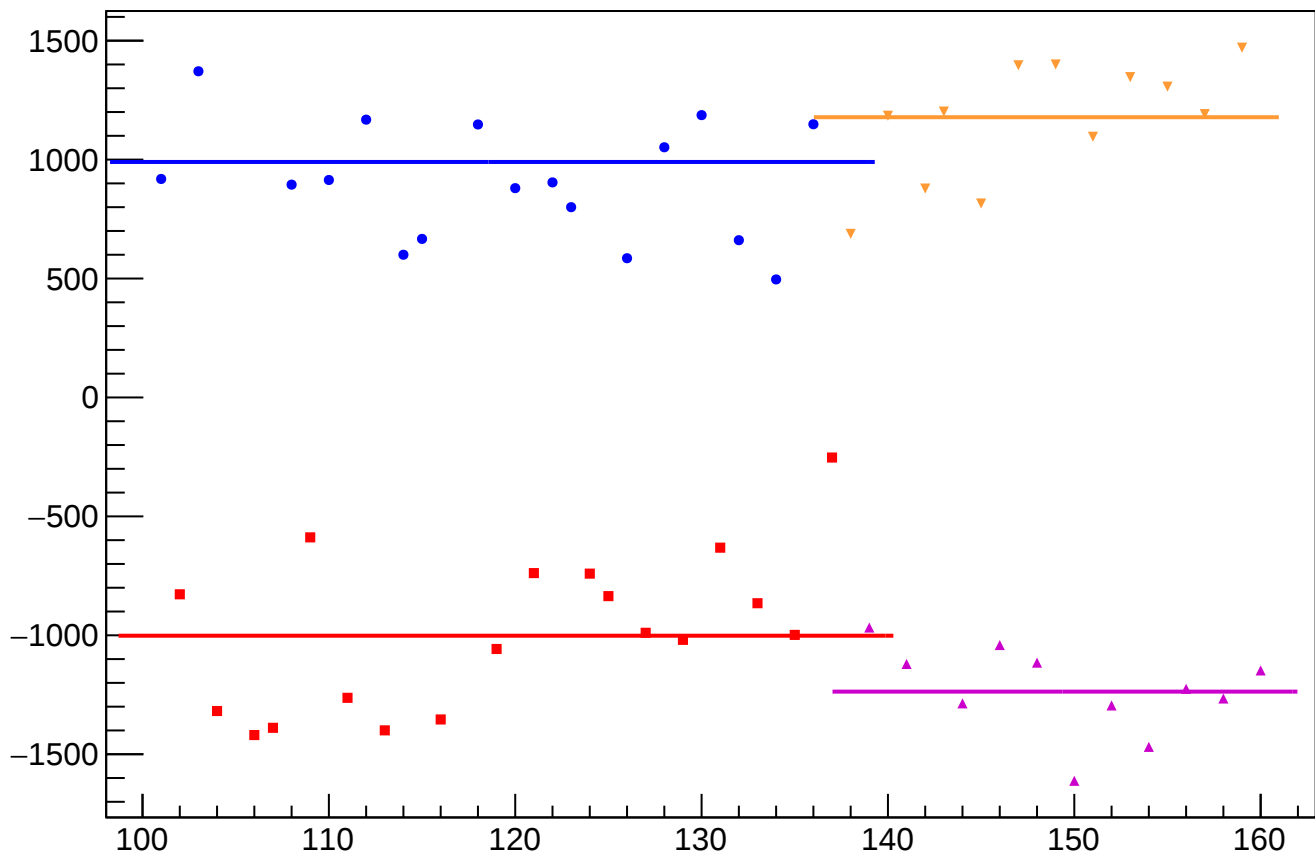
Left:  $-0.306 \pm 0.000$   $\chi^2/\text{NDF}$ : 16725822551046735  
 Right In:  $1.369 \pm 0.000$   $\chi^2/\text{NDF}$ : 6191636339009546001582067680280576.0/16  
 Right:  $0.137 \pm 0.000$   $\chi^2/\text{NDF}$ : 16434126943440004  
 Left Out:  $2.311 \pm 0.000$   $\chi^2/\text{NDF}$ : 2071801880392961895564472831967232.0/11  
 In:  $-1.053 \pm 0.000$   $\chi^2/\text{NDF}$ : 156593787937301094  
 Right Out:  $-1.058 \pm 0.000$   $\chi^2/\text{NDF}$ : 8169457084716591134016374239657984.0/17  
 Out:  $0.828 \pm 0.000$   $\chi^2/\text{NDF}$ : 147817012086563648  
 Left In:  $-2.855 \pm 0.000$   $\chi^2/\text{NDF}$ : 2369235409930855719380632706482176.0/10  
 All:  $-0.114 \pm 0.000$   $\chi^2/\text{NDF}$ : 3331669789306

dit\_4eX\_coil6\_err\_mean vs Slug, Sign Corrected



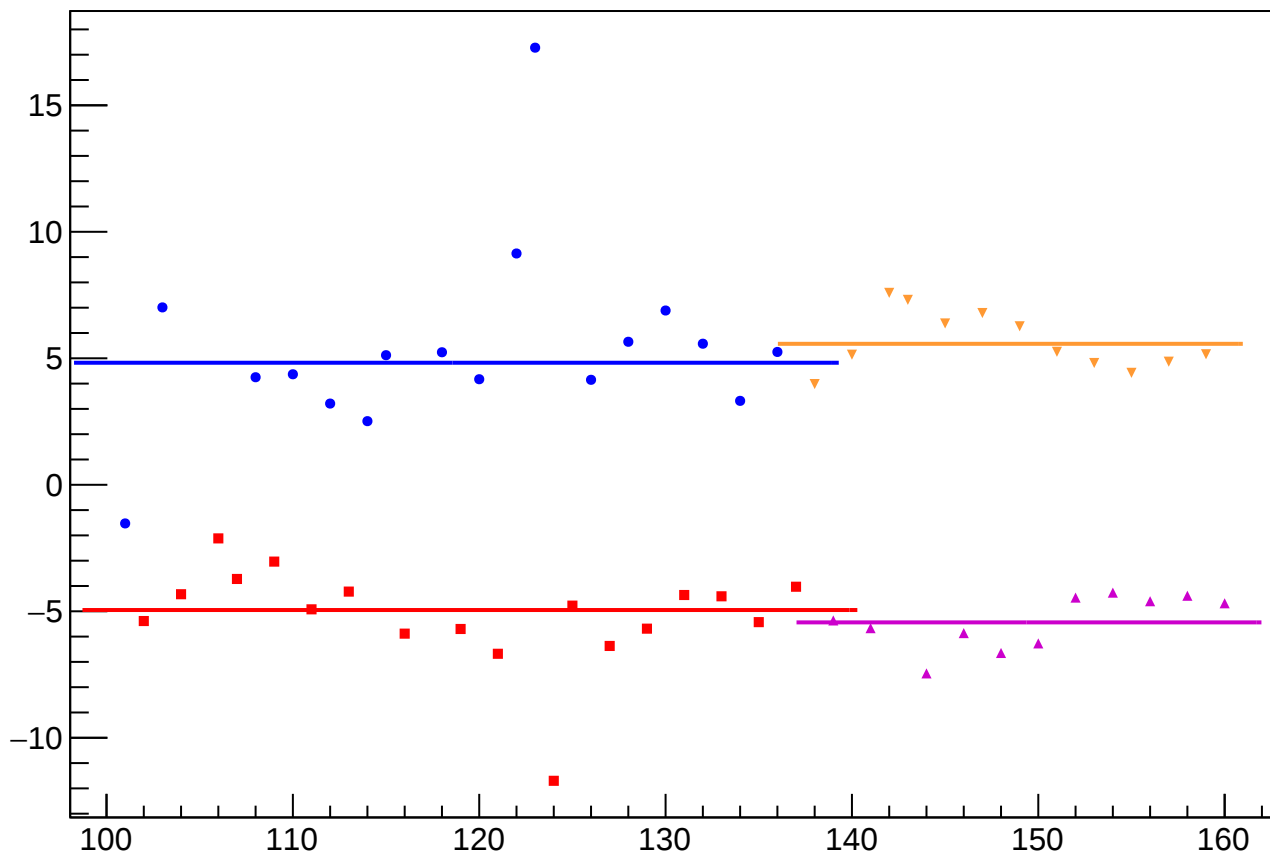
Right In:  $4.241 \pm 0.000$   $\chi^2/\text{NDF}$ : 28619887598660619239245868781535232.0/16  
 Left Out:  $1.298 \pm 0.000$   $\chi^2/\text{NDF}$ : 118446025514580512304684144263168.0/11  
 Right Out:  $-3.647 \pm 0.000$   $\chi^2/\text{NDF}$ : 14024721044013316870032890924105728.0/17  
 Left In:  $-1.383 \pm 0.000$   $\chi^2/\text{NDF}$ : 247273414234626472508051064619008.0/10  
 All:  $0.069 \pm 0.000$   $\chi^2/\text{NDF}$ : 68299772952141

dit\_4eX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left: -45.003+/-0.000  $\chi^2/\text{NDF}$ : 2767859757374114  
 Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234  
 In: -286.905+/-0.000  $\chi^2/\text{NDF}$ : 2040776092386221  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Out: 218.490+/-0.000  $\chi^2/\text{NDF}$ : 2015349576700865  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

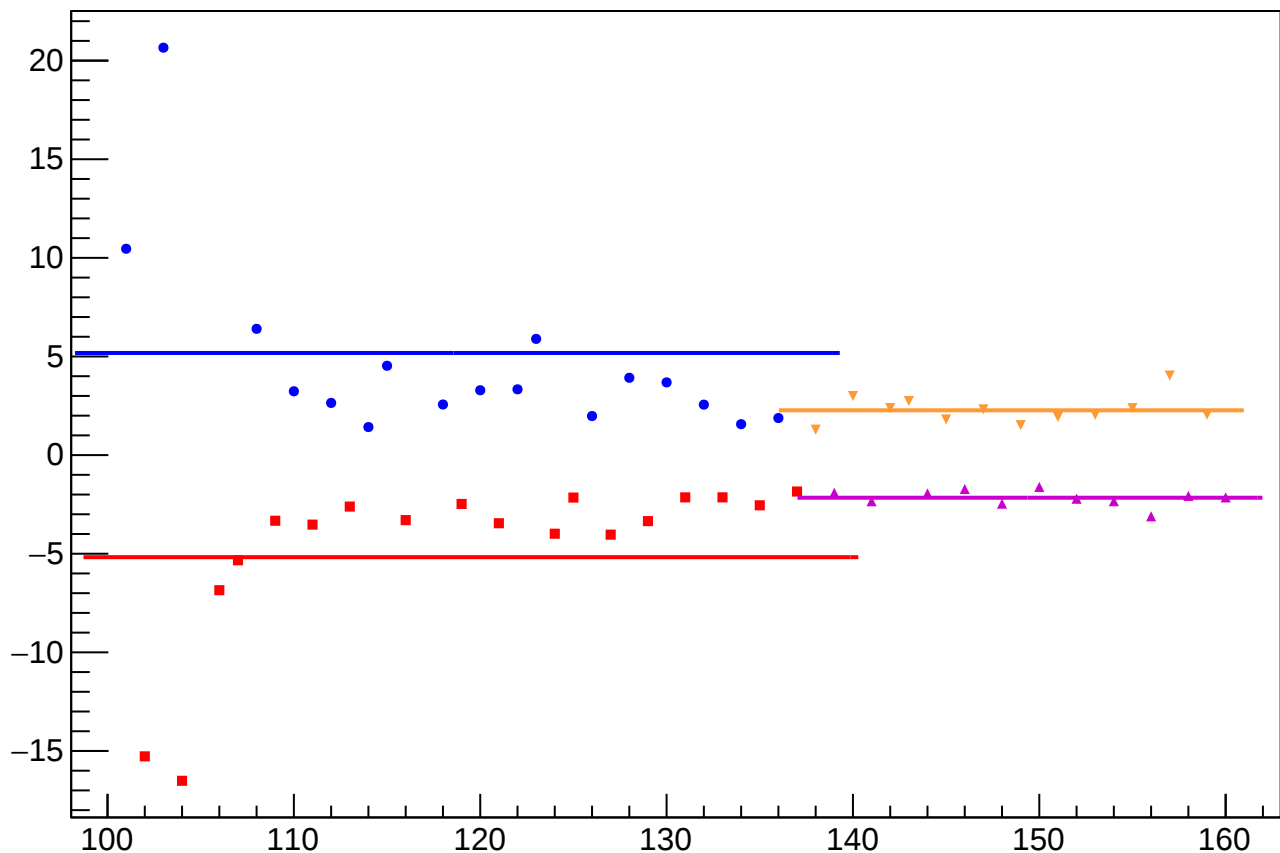
# dit\_11X12X\_coil6\_mean vs Slug, Sign Corrected



Left:  $-0.005 \pm 0.000$   $\chi^2/\text{NDF}$ : 57809229757761740  
 Right:  $-0.136 \pm 0.000$   $\chi^2/\text{NDF}$ : 3981401538460137  
 In:  $-1.061 \pm 0.000$   $\chi^2/\text{NDF}$ : 475387196018274355  
 Out:  $0.940 \pm 0.000$   $\chi^2/\text{NDF}$ : 468450835425449454  
 All:  $-0.061 \pm 0.000$   $\chi^2/\text{NDF}$ : 9763689586043

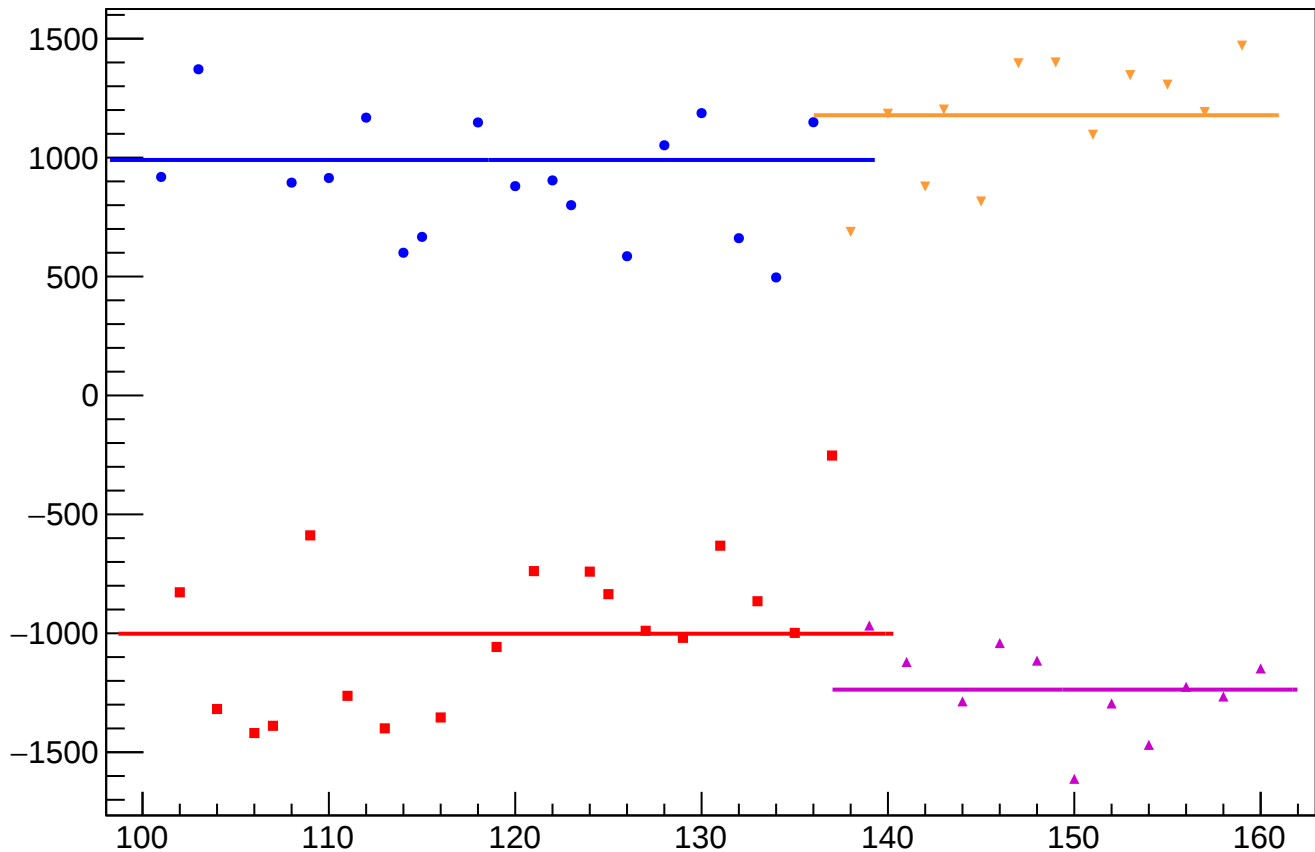
Right In:  $4.824 \pm 0.000$   $\chi^2/\text{NDF}$ : 4654072520475619864481183580553216.0/16  
 Left Out:  $5.572 \pm 0.000$   $\chi^2/\text{NDF}$ : 1020095199313484832120025296928768.0/11  
 Right Out:  $-4.950 \pm 0.000$   $\chi^2/\text{NDF}$ : 1515007904318518564448163120283648.0/17  
 Left In:  $-5.439 \pm 0.000$   $\chi^2/\text{NDF}$ : 966975123743589213264905804709888.0/10

dit\_11X12X\_coil6\_err\_mean vs Slug, Sign Corrected



Right In:  $5.179 \pm 0.000$   $\chi^2/\text{NDF}$ : 19215970923479019199836696755568640.0/16  
 Left Out:  $2.271 \pm 0.000$   $\chi^2/\text{NDF}$ : 445973362143922999565724801826816.0/11  
 Right Out:  $-5.175 \pm 0.000$   $\chi^2/\text{NDF}$ : 15553868406688086696237036103270400.0/17  
 Left In:  $-2.161 \pm 0.000$   $\chi^2/\text{NDF}$ : 138371088754302765080927377817600.0/10  
 All:  $-0.018 \pm 0.000$   $\chi^2/\text{NDF}$ : 8216013484871

dit\_11X12X\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 1178.253+/-0.000

$\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11

Right Out: -1001.684+/-0.000

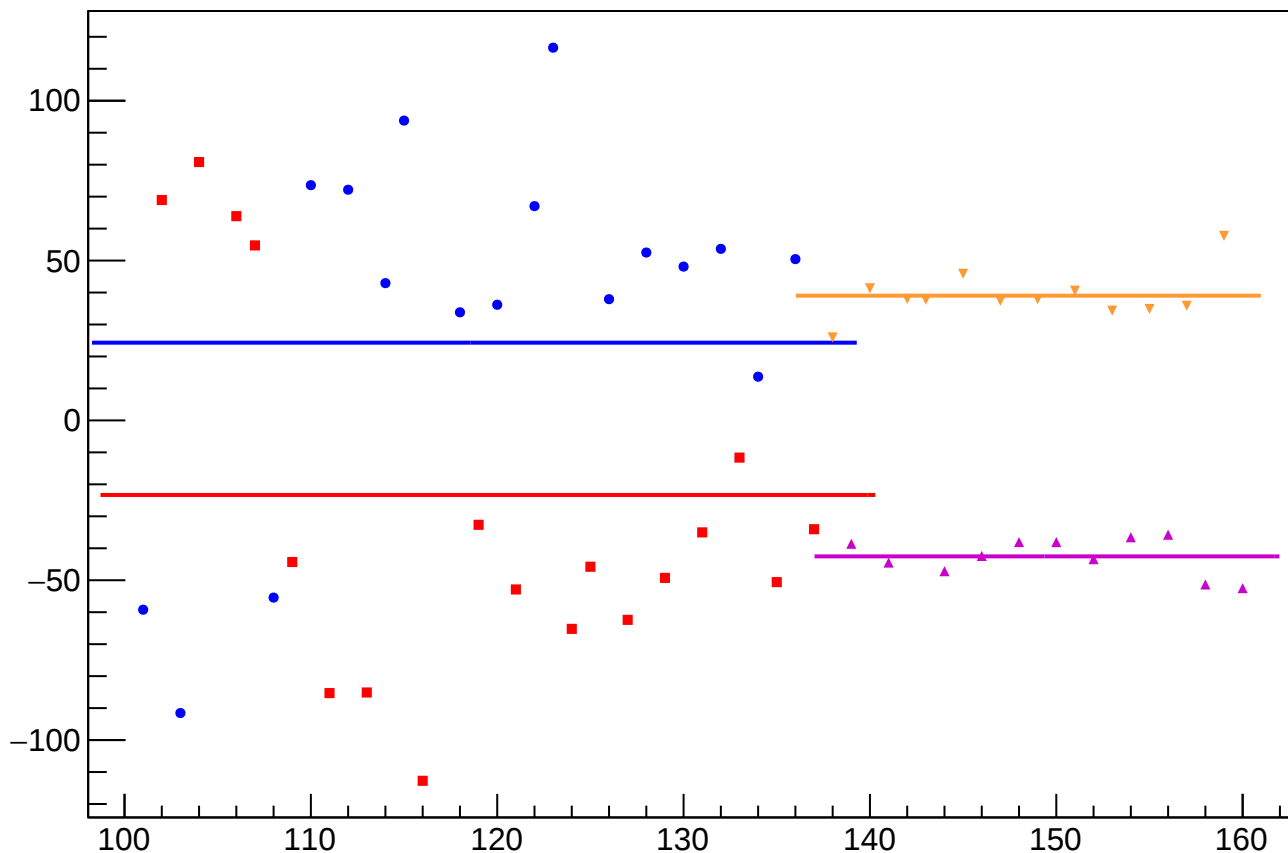
$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -1236.792+/-0.000

$\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10

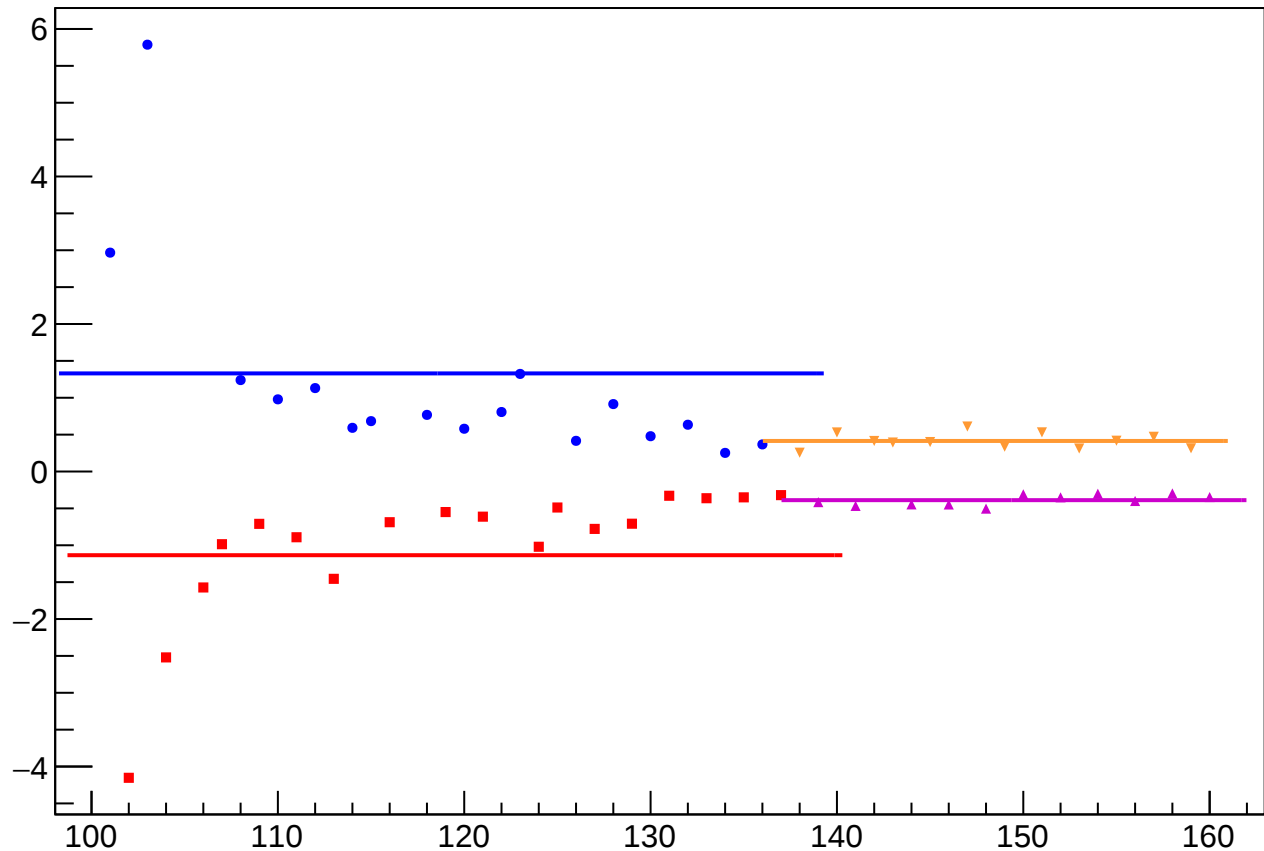
All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

dit\_4aY\_coil6\_mean vs Slug, Sign Corrected



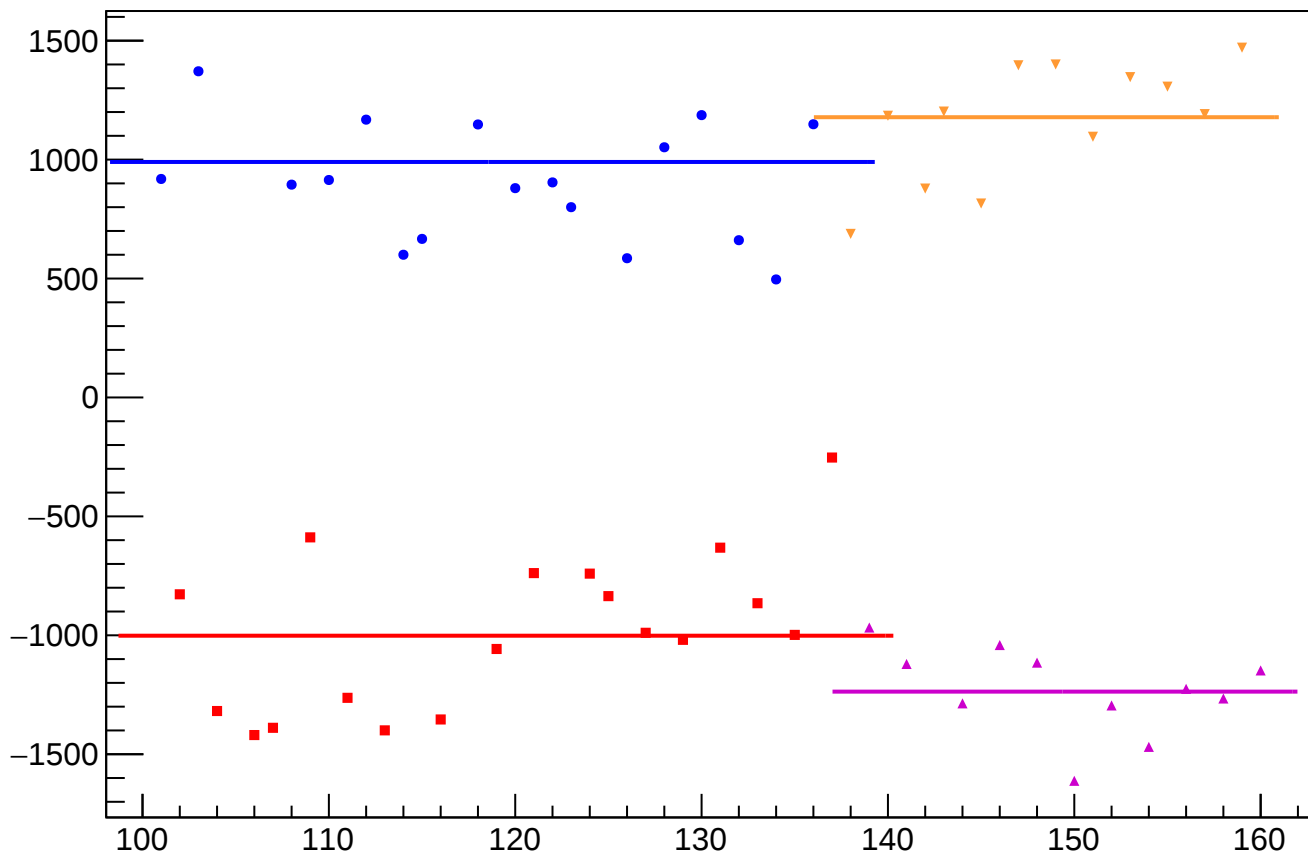
Right In:  $24.318 \pm 0.000$   $\chi^2/\text{NDF}: 2002814634195538334157710520710332416.0/16$   
 Left Out:  $39.019 \pm 0.000$   $\chi^2/\text{NDF}: 50102899546886796047994324336508928.0/11$   
 Right Out:  $-23.323 \pm 0.000$   $\chi^2/\text{NDF}: 2300287491781415748029178925971144704.0/17$   
 Left In:  $-42.534 \pm 0.000$   $\chi^2/\text{NDF}: 28373028064789967113556541703192576.0/10$   
 All:  $-1.235 \pm 0.000$   $\chi^2/\text{NDF}: 8247869405695$

dit\_4aY\_coil6\_err\_mean vs Slug, Sign Corrected



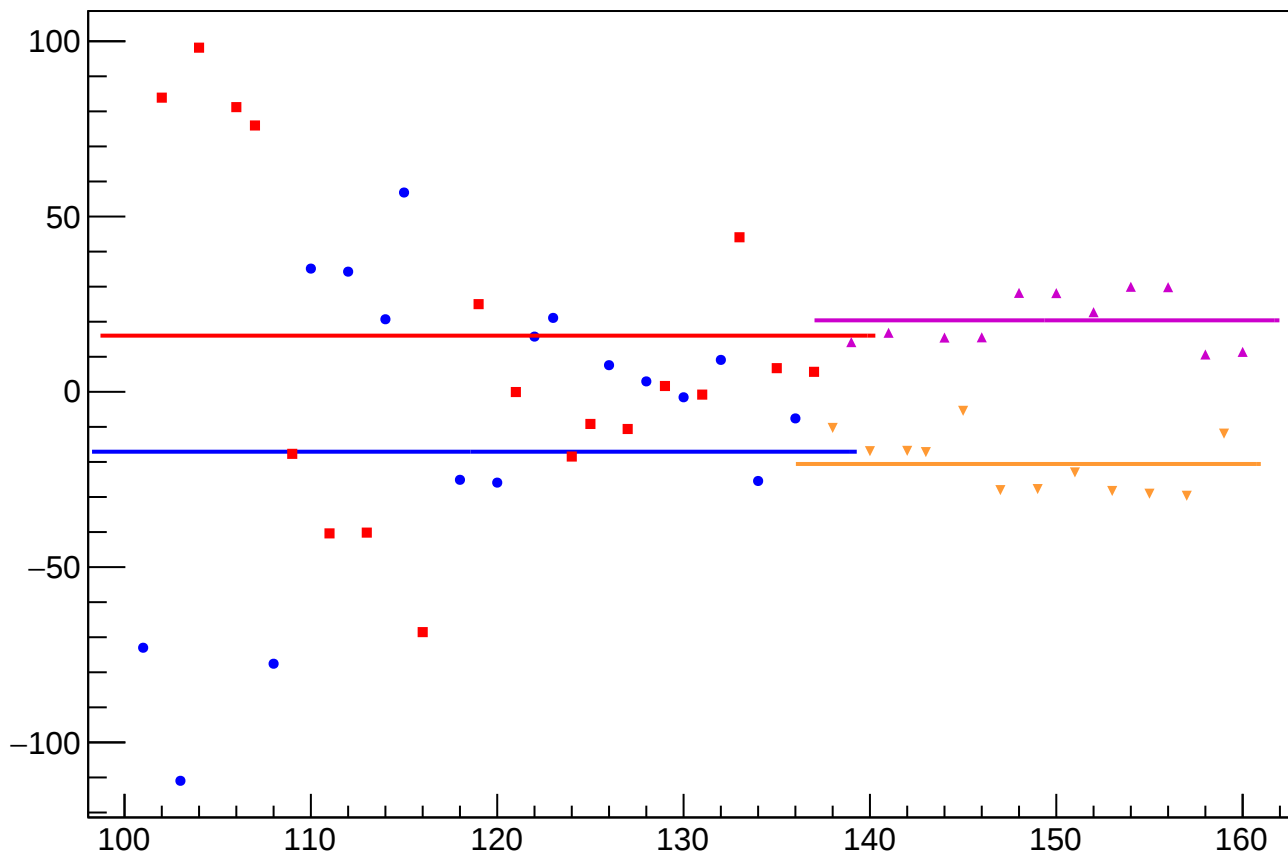
Right In: 1.330 $\pm$ 0.000  $\chi^2$ /NDF: 1603106167275520107151234942631936.0/16  
 Left Out: 0.414 $\pm$ 0.000  $\chi^2$ /NDF: 9567880309690591091908795170816.0/11  
 Right Out: -1.135 $\pm$ 0.000  $\chi^2$ /NDF: 803137408294494563054397652205568.0/17  
 Left In: -0.388 $\pm$ 0.000  $\chi^2$ /NDF: 4478292013674144747987763462144.0/10  
 All: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 48607412454167

dit\_4aY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_4eY\_coil6\_mean vs Slug, Sign Corrected



Right In: -17.080 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 1305852396524110552444351569704517632.0/16

Left Out: -20.578 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 60639888412264927004894637808680960.0/11

Right Out: 16.026 $\pm$ 0.000

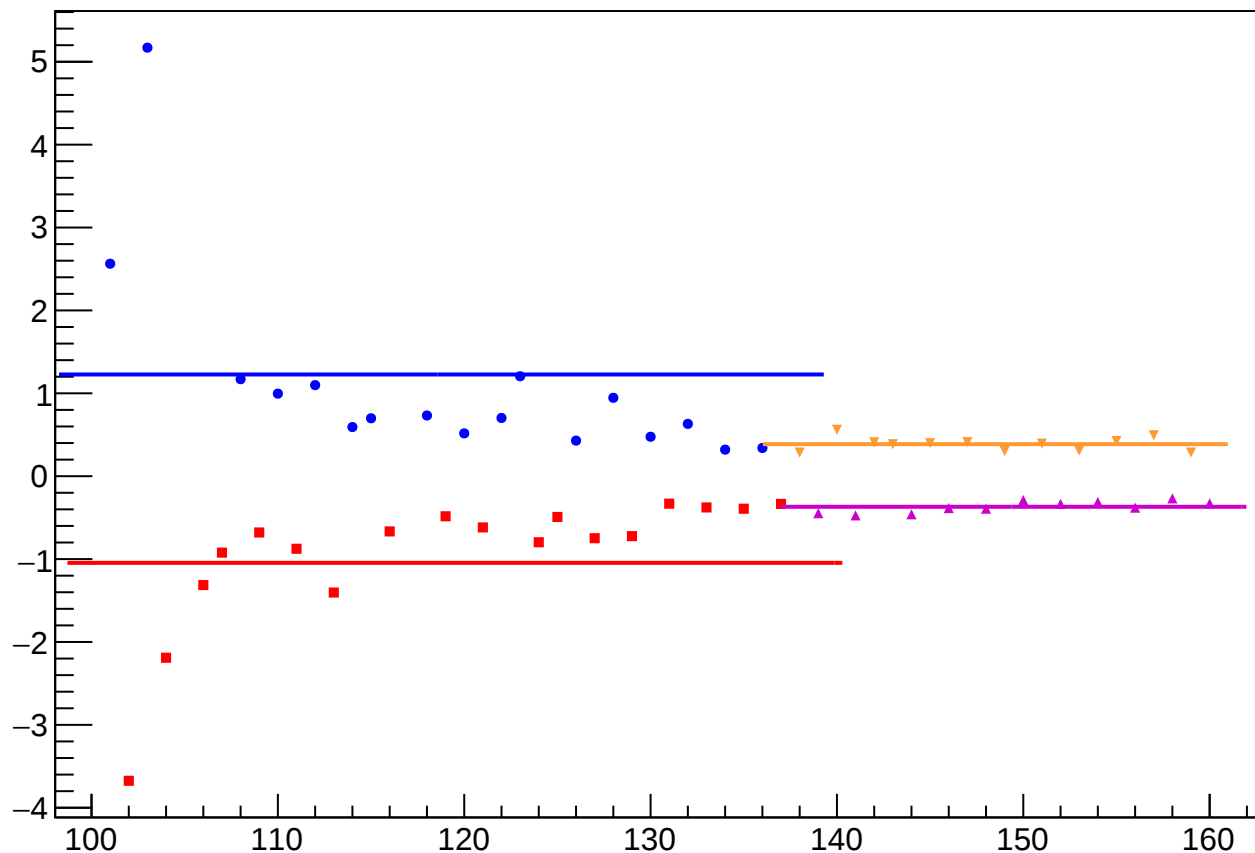
$\chi^2/\text{NDF}$ : 1544075638091019901834252047429402624.0/17

Left In: 20.391 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 49123532237880600080923761508876288.0/10

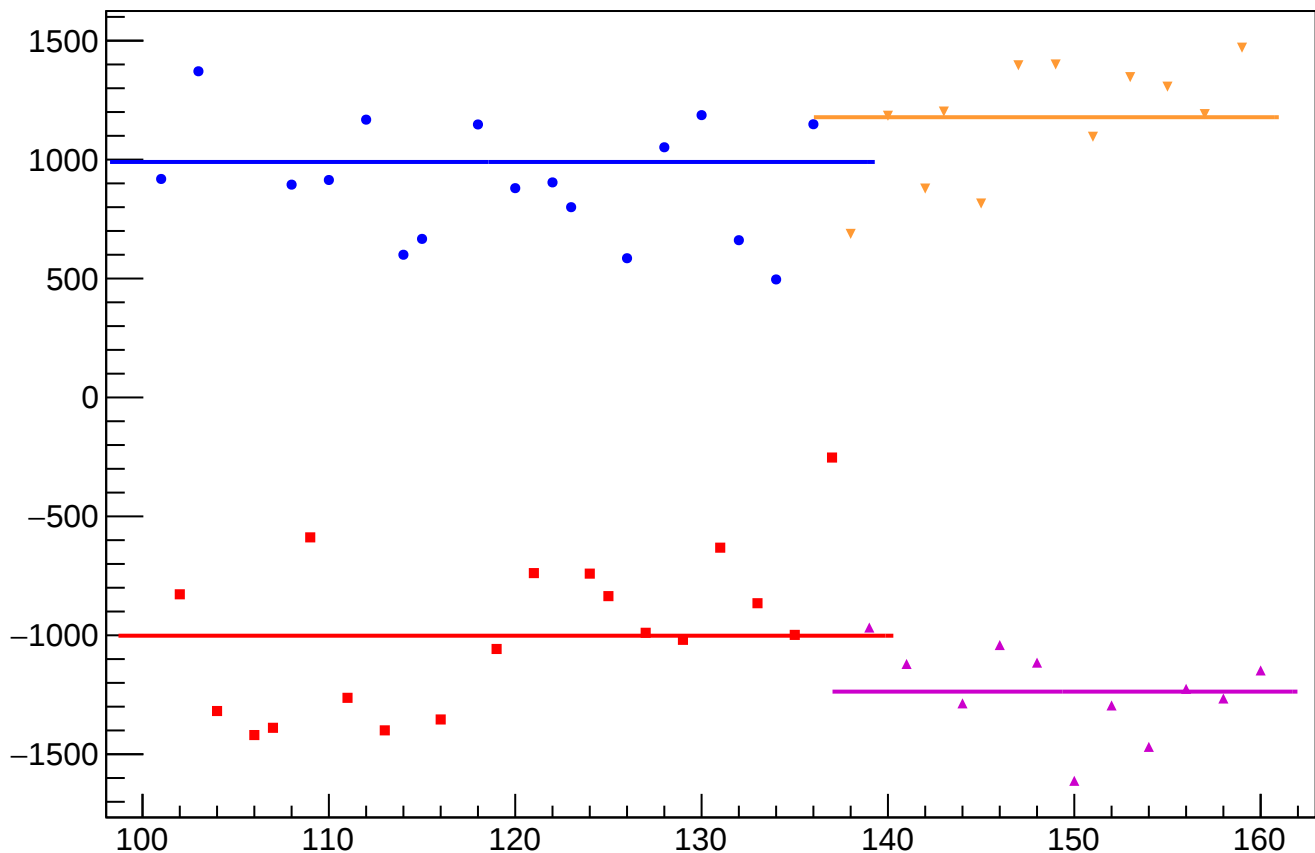
All: -0.023 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4118648127034

dit\_4eY\_coil6\_err\_mean vs Slug, Sign Corrected



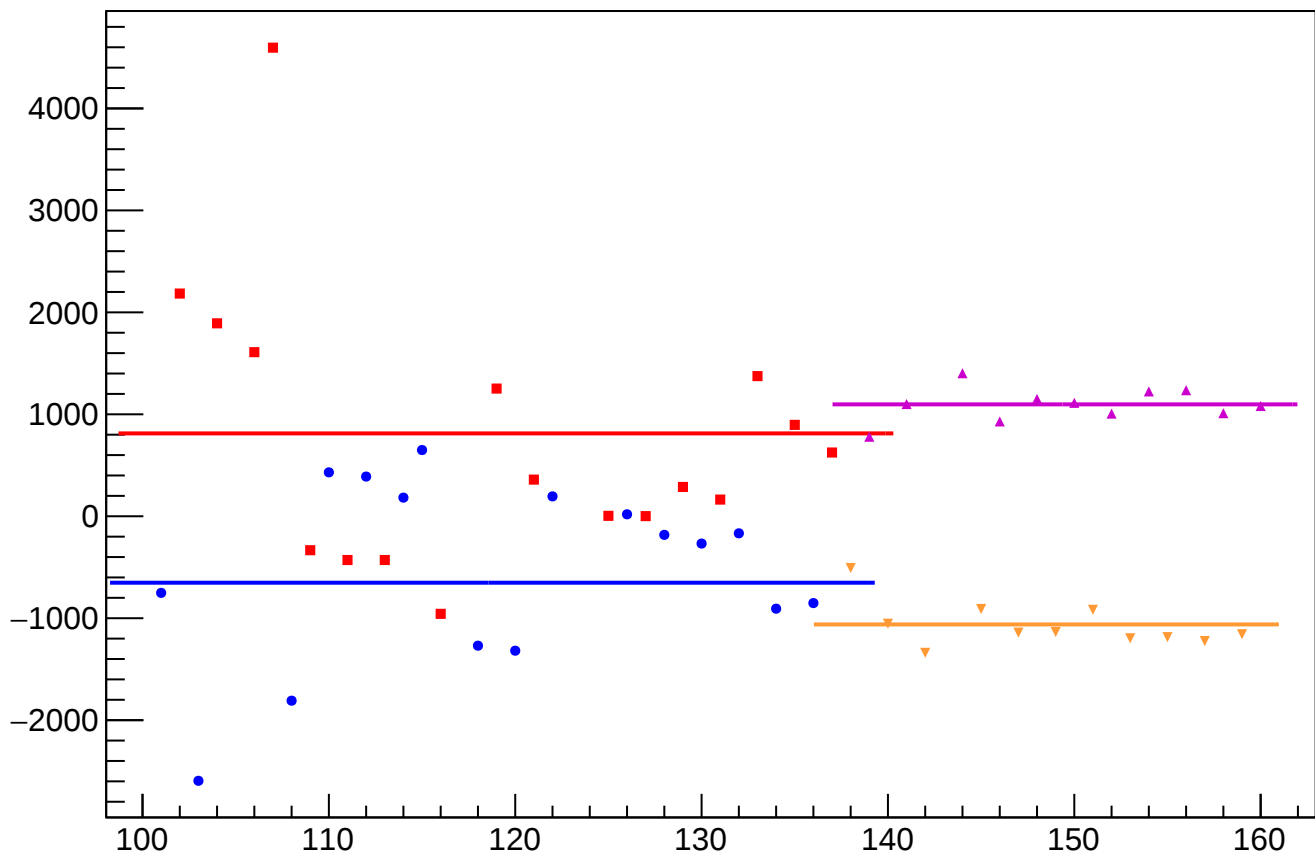
Right In: 1.227 $\pm$ 0.000  $\chi^2$ /NDF: 1236268785411842731770087408140288.0/16  
 Left Out: 0.386 $\pm$ 0.000  $\chi^2$ /NDF: 6218656899307774549221745623040.0/11  
 Right Out: -1.045 $\pm$ 0.000  $\chi^2$ /NDF: 600057841416365938926945245855744.0/17  
 Left In: -0.369 $\pm$ 0.000  $\chi^2$ /NDF: 4180194840459374093507993010176.0/10  
 All: 0.034 $\pm$ 0.000  $\chi^2$ /NDF: 39322772320005

dit\_4eY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_usl\_coil6\_mean vs Slug, Sign Corrected



Right In: -651.720+/-0.000

$\chi^2/\text{NDF}$ : 515253429514141170908240824492993019904.0/15

Left Out: -1060.938+/-0.000

$\chi^2/\text{NDF}$ : 37316934369897173476470226506953523200.0/10

Right Out: 812.763+/-0.000

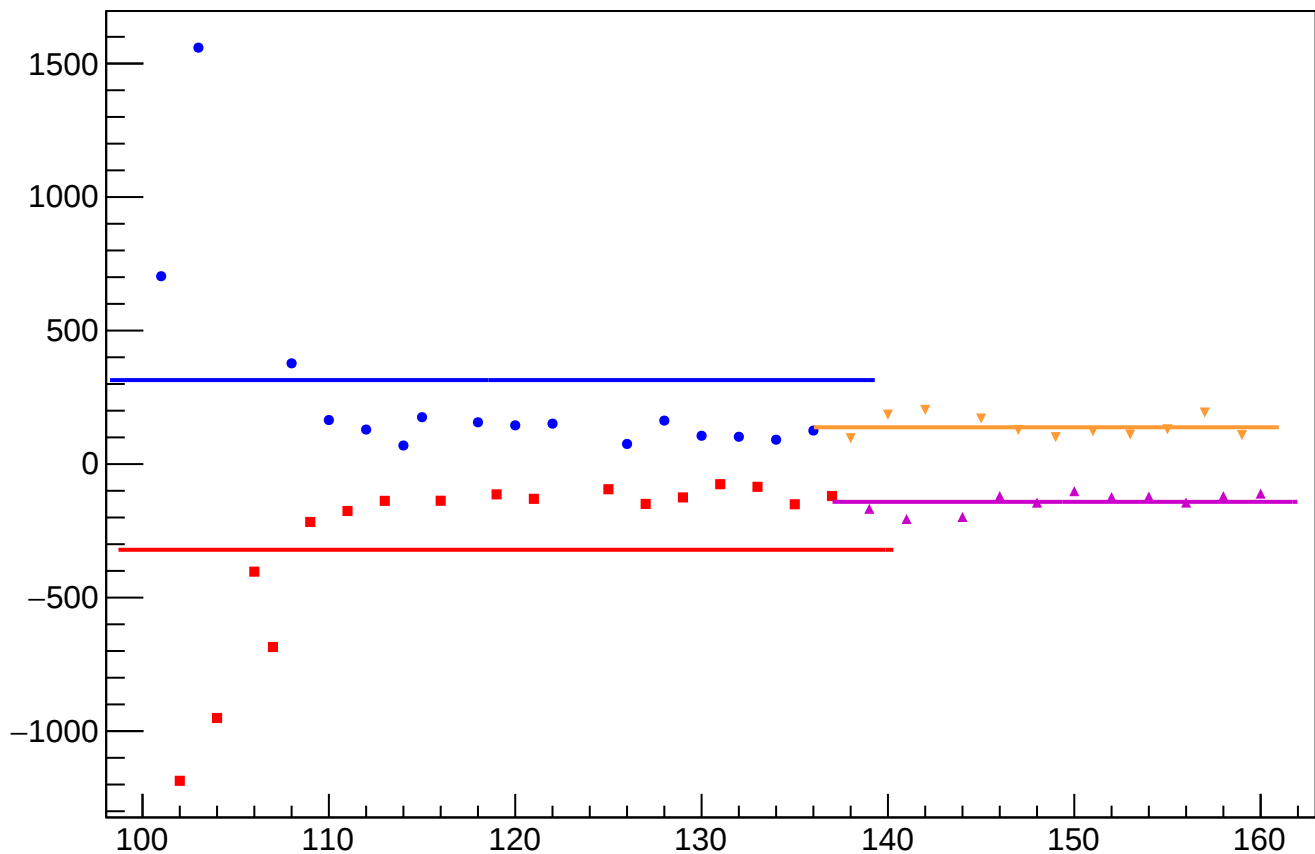
$\chi^2/\text{NDF}$ : 1101460876390641458322598423370785619968.0/16

Left In: 1097.494+/-0.000

$\chi^2/\text{NDF}$ : 23351400853511431173682229401488457728.0/10

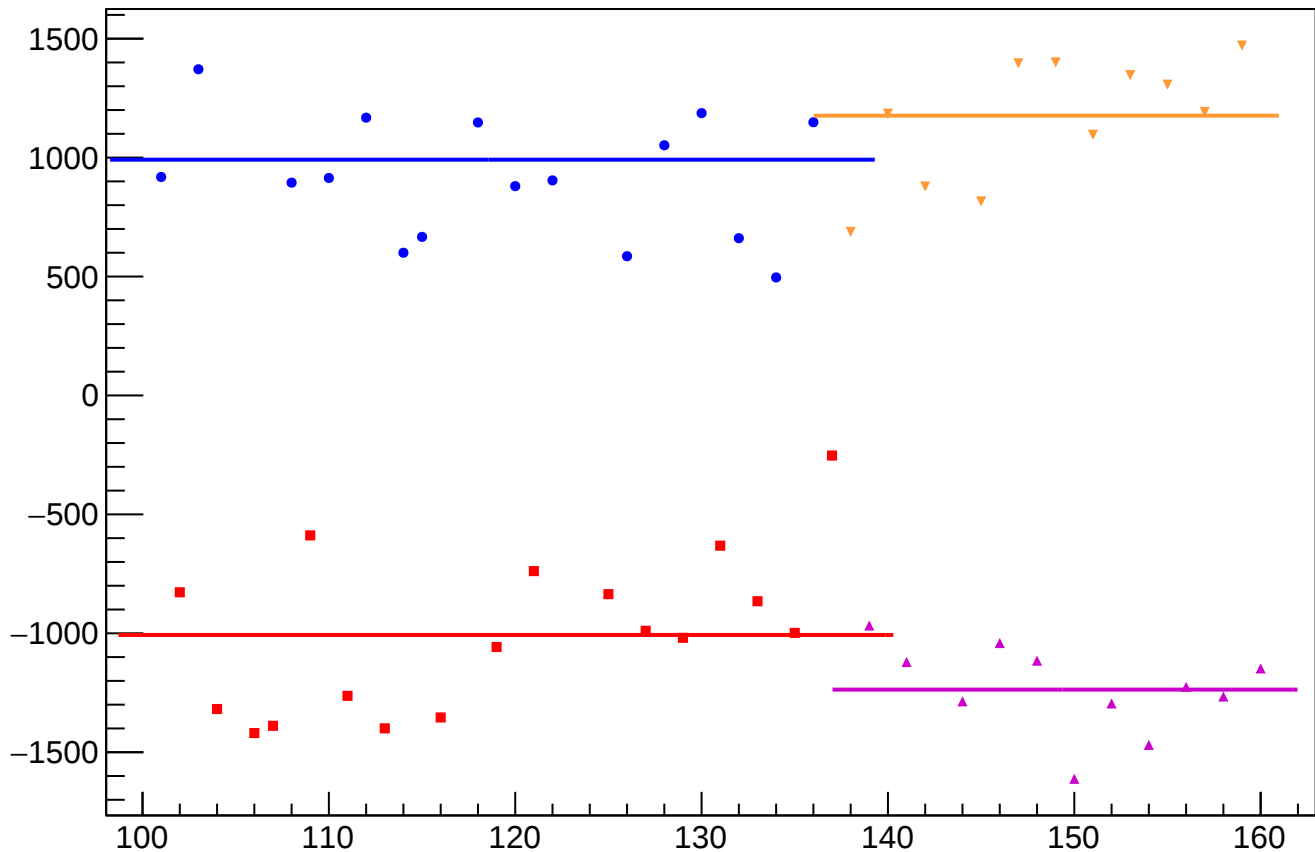
All: 79.189+/-0.000  $\chi^2/\text{NDF}$ : 4485206924735

# dit\_usl\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 314.545 +/- 0.000  $\chi^2/\text{NDF}$ : 119237374869722274381627978354572394496.0/15  
 Left Out: 137.826 +/- 0.000  $\chi^2/\text{NDF}$ : 1094456190127485878958561813734621184.0/10  
 Right Out: -320.904 +/- 0.000  $\chi^2/\text{NDF}$ : 87674109079535670450798871539758399488.0/16  
 Left In: -141.362 +/- 0.000  $\chi^2/\text{NDF}$ : 1055012585821780249716984846873526272.0/10  
 All: -7.504 +/- 0.000  $\chi^2/\text{NDF}$ : 3839775082009

dit\_usl\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 991.206+/-0.000

$\chi^2/\text{NDF}$ : 36748853080147814133782972147039207424.0/15

Left Out: 1176.365+/-0.000

$\chi^2/\text{NDF}$ : 52126967778678264824660469189129011200.0/10

Right Out: -1006.896+/-0.000

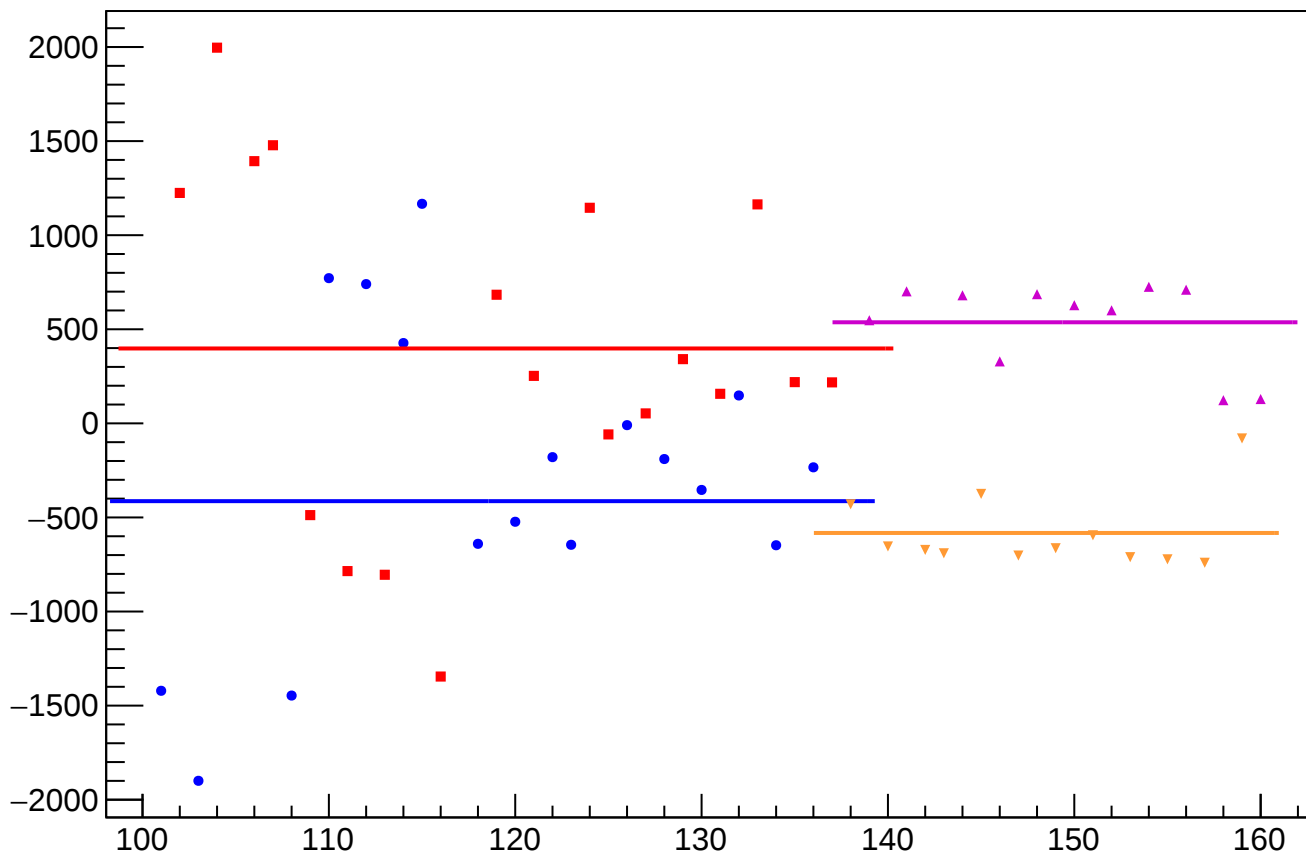
$\chi^2/\text{NDF}$ : 60379057385364851969891575322776698880.0/16

Left In: -1236.792+/-0.000

$\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10

All: -58.538+/-0.000  $\chi^2/\text{NDF}$ : 414968863069

dit\_usr\_coil6\_mean vs Slug, Sign Corrected



Right In: -413.418+/-0.000

$\chi^2/\text{NDF}$ : 416661262936725907024907175037323182080.0/16

Left Out: -582.459+/-0.000

$\chi^2/\text{NDF}$ : 33467960128357815096221409884680224768.0/11

Right Out: 397.961+/-0.000

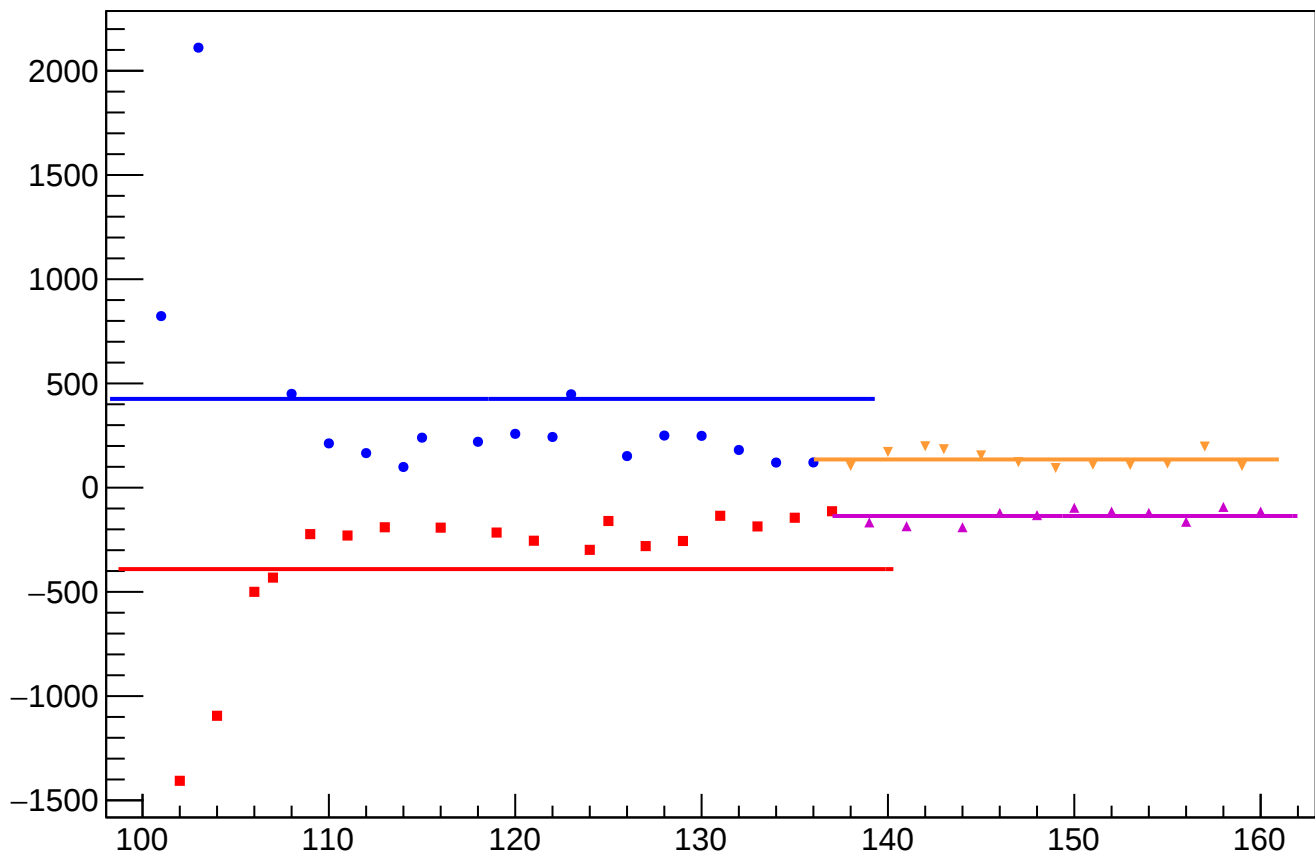
$\chi^2/\text{NDF}$ : 544622124437292502497528454351499034624.0/17

Left In: 537.163+/-0.000

$\chi^2/\text{NDF}$ : 43957458836517899124048676659035897856.0/10

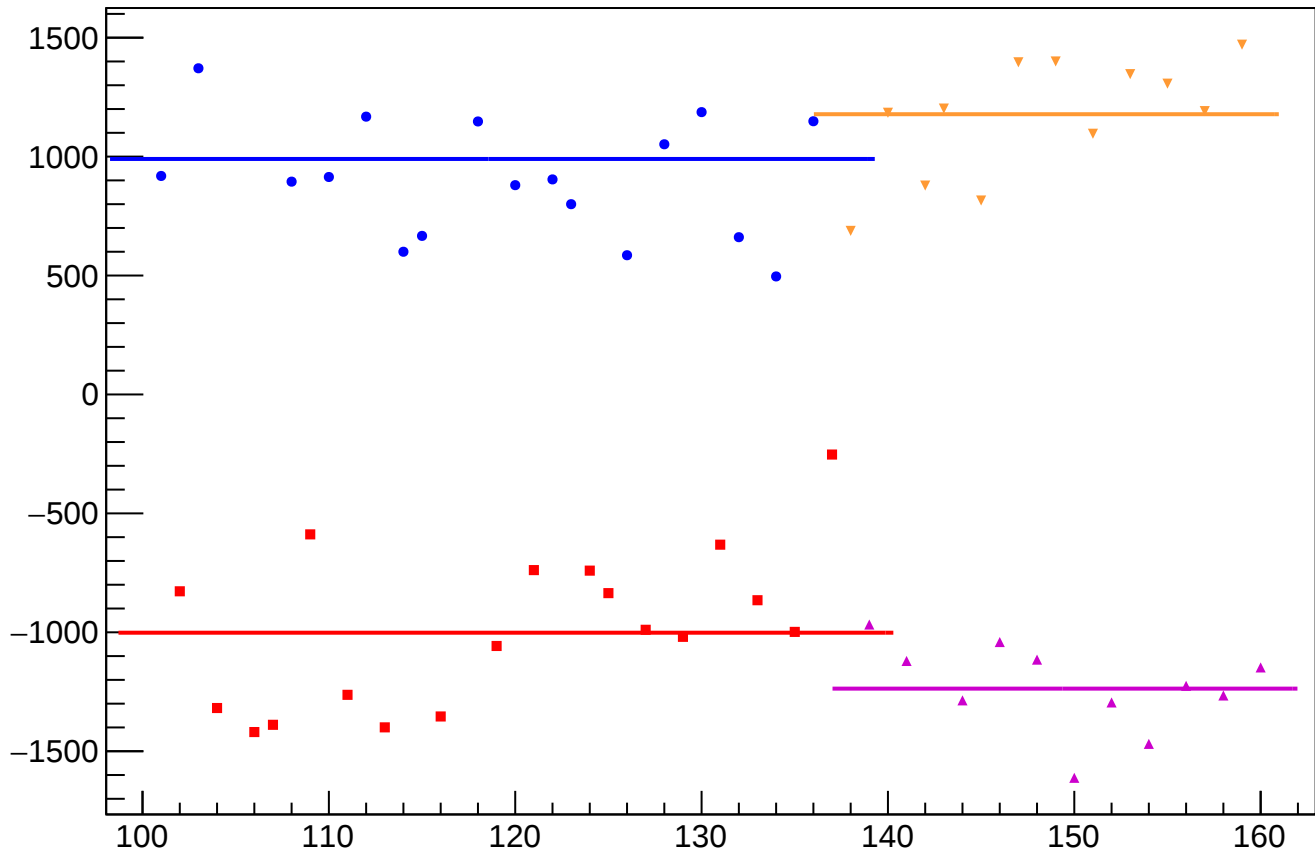
All: -9.429+/-0.000  $\chi^2/\text{NDF}$ : 1847867869270

dit\_usr\_coil6\_err\_mean vs Slug, Sign Corrected



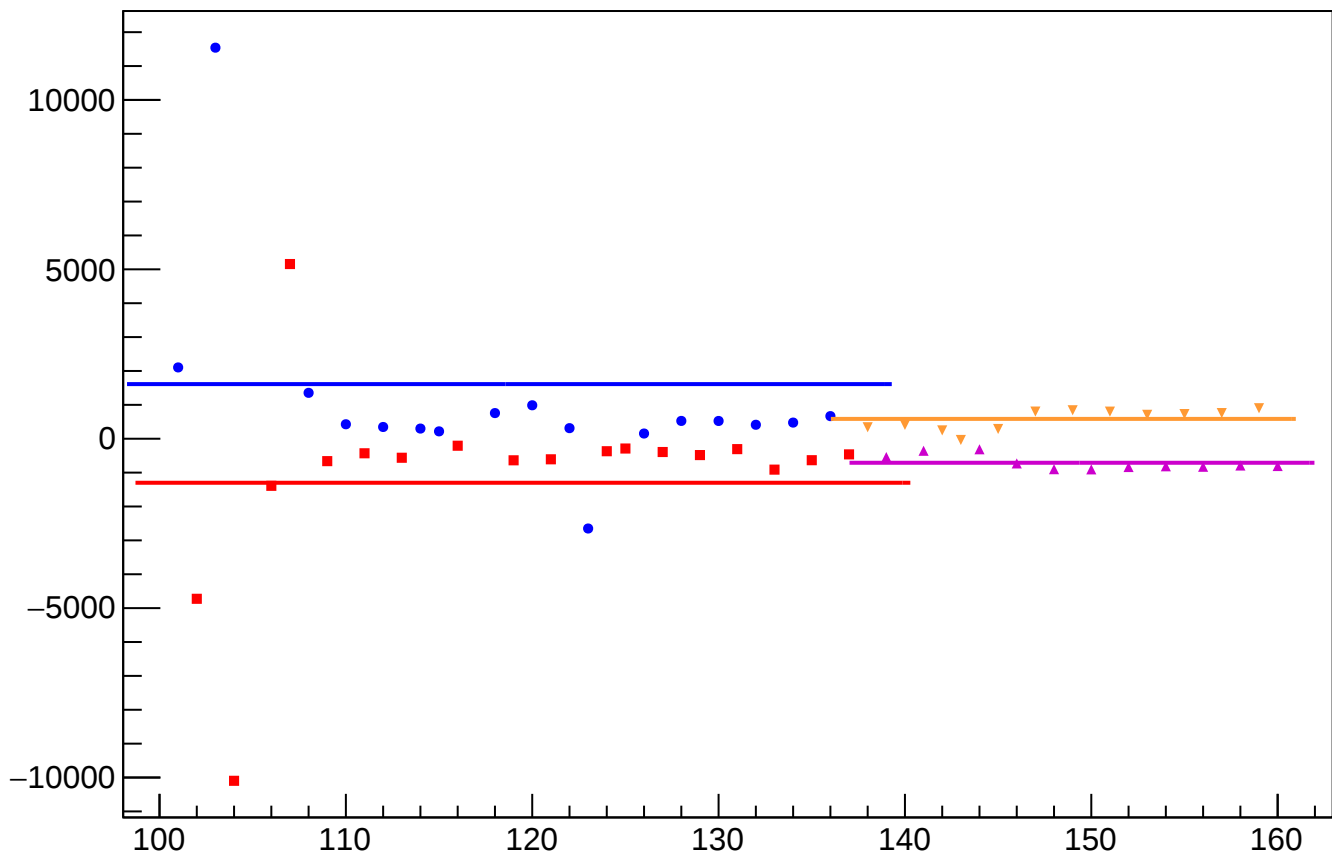
Right In: 425.847+/-0.000  $\chi^2/\text{NDF}$ : 207036344088227618256858466697210757120.0/16  
 Left Out: 135.302+/-0.000  $\chi^2/\text{NDF}$ : 1213972117724638790045949459626459136.0/11  
 Right Out: -390.709+/-0.000  $\chi^2/\text{NDF}$ : 105177402148385851360915440950786916352.0/17  
 Left In: -135.877+/-0.000  $\chi^2/\text{NDF}$ : 1013407653524592727671386529217904640.0/10  
 All: 3.814+/-0.000  $\chi^2/\text{NDF}$ : 58326132779015

dit\_usr\_coil6\_Ndata\_mean vs Slug, Sign Corrected



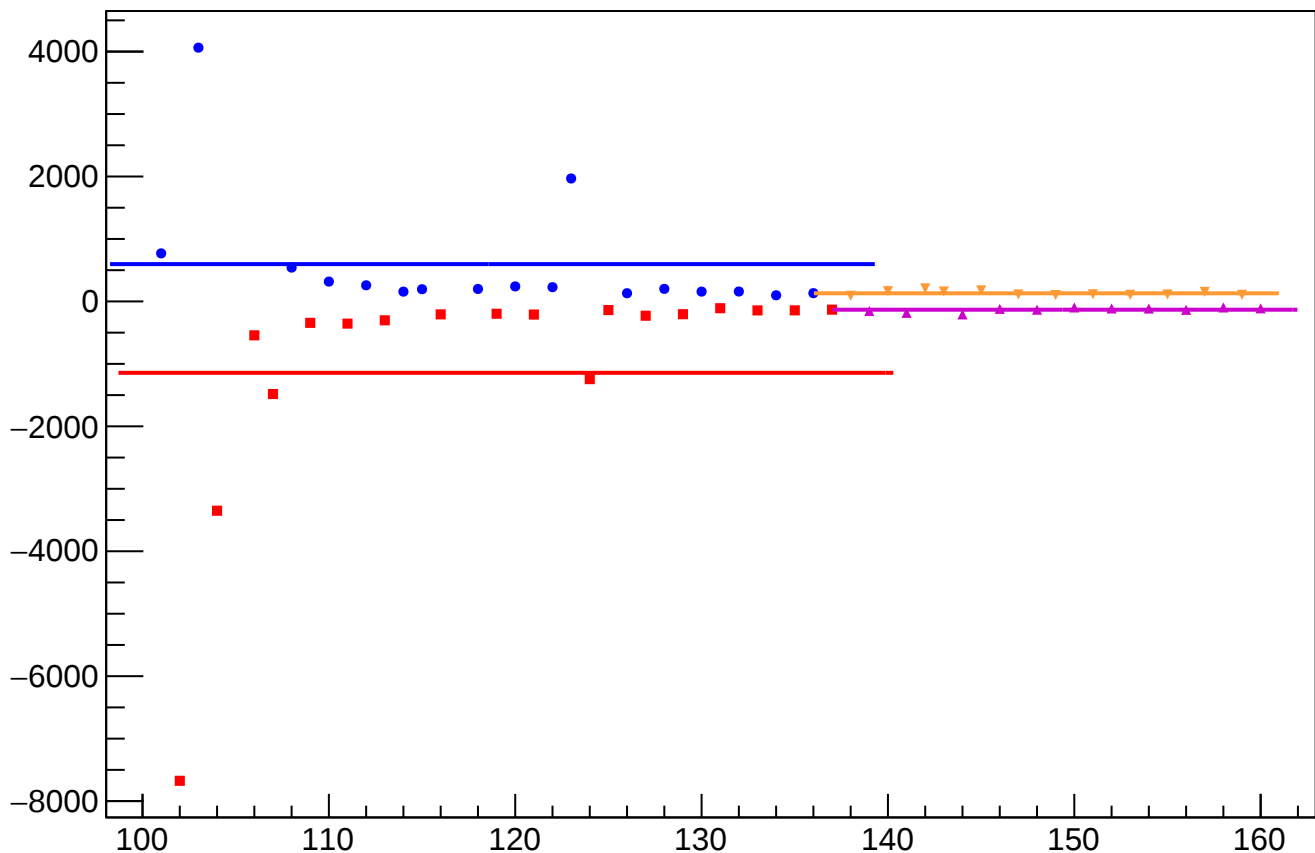
Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

dit\_atl1\_coil6\_mean vs Slug, Sign Corrected



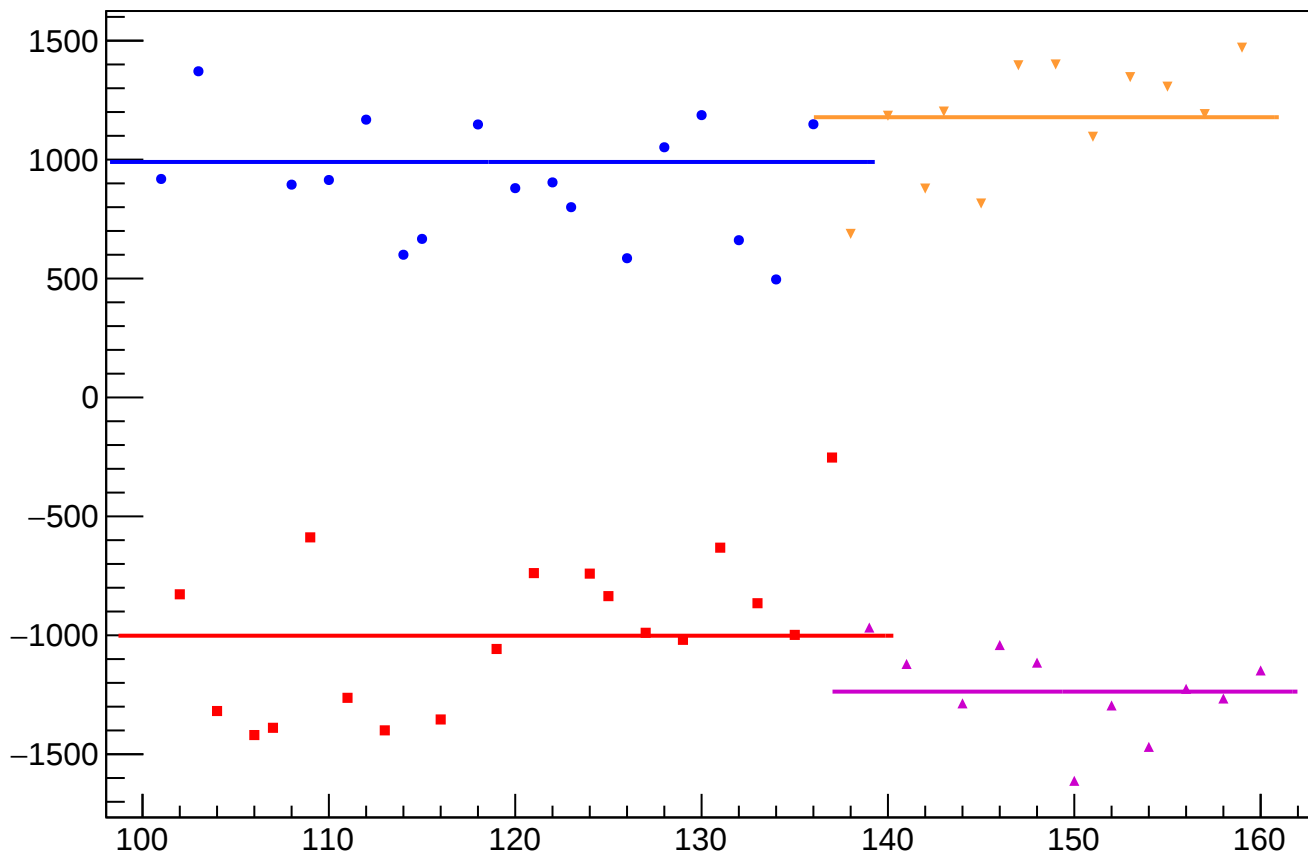
Left: -70.535 +/- 0.000  $\chi^2/\text{NDF}$ : 8814166547706213  
 Right In: 1612.346 +/- 0.000  $\chi^2/\text{NDF}$ : 6578565632222822389389916952029424517120.0/16  
 Right: 134.667 +/- 0.000  $\chi^2/\text{NDF}$ : 160329855718558  
 Left Out: 585.355 +/- 0.000  $\chi^2/\text{NDF}$ : 71064130905944539858639816600462557184.0/11  
 In: 280.858 +/- 0.000  $\chi^2/\text{NDF}$ : 8762447103268243  
 Right Out: -1299.611 +/- 0.000  $\chi^2/\text{NDF}$ : 6468181068576271058681439598083982753792.0/17  
 Out: -244.541 +/- 0.000  $\chi^2/\text{NDF}$ : 796121639516906  
 Left In: -709.552 +/- 0.000  $\chi^2/\text{NDF}$ : 38324887242823833367835539132322414592.0/10  
 All: 18.401 +/- 0.000  $\chi^2/\text{NDF}$ : 1694801829865

dit\_atl1\_coil6\_err\_mean vs Slug, Sign Corrected



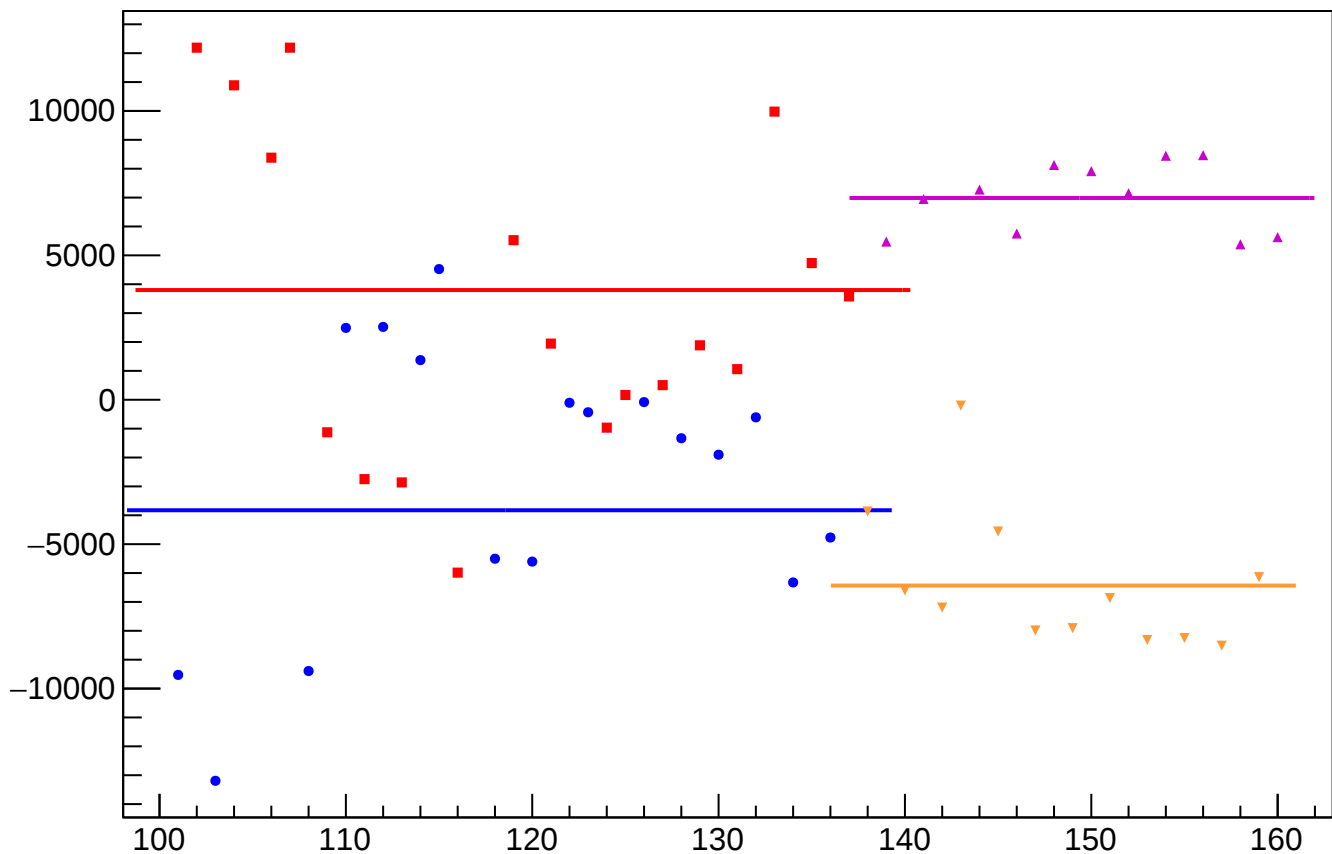
Left:  $-3.028 \pm 0.000$   $\chi^2/\text{NDF}: 33889688901035256$   
 Right In:  $597.382 \pm 0.000$   $\chi^2/\text{NDF}: 808468639420281882930484113186400239616.0/16$   
 Right:  $-285.870 \pm 0.000$   $\chi^2/\text{NDF}: 50680370930109$   
 Left Out:  $130.051 \pm 0.000$   $\chi^2/\text{NDF}: 1012152339815276325722639516246736896.0/11$   
 In:  $178.727 \pm 0.000$   $\chi^2/\text{NDF}: 10216812314521010$   
 Right Out:  $-1143.180 \pm 0.000$   $\chi^2/\text{NDF}: 3192644561132334907368616853810301632512.0/17$   
 Out:  $-430.516 \pm 0.000$   $\chi^2/\text{NDF}: 384243763788041$   
 Left In:  $-132.683 \pm 0.000$   $\chi^2/\text{NDF}: 1095069941425855295085560512768901120.0/10$   
 All:  $-125.613 \pm 0.000$   $\chi^2/\text{NDF}: 51657930669$

dit\_atl1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_atl2\_coil6\_mean vs Slug, Sign Corrected



Right In: -3825.392 +/- 0.000

Left Out: -6434.104 +/- 0.000

Right Out: 3798.528 +/- 0.000

Left In: 6986.598 +/- 0.000

Left: 363.678 +/- 0.000  $\chi^2/\text{NDF}$ : 8885863810237189

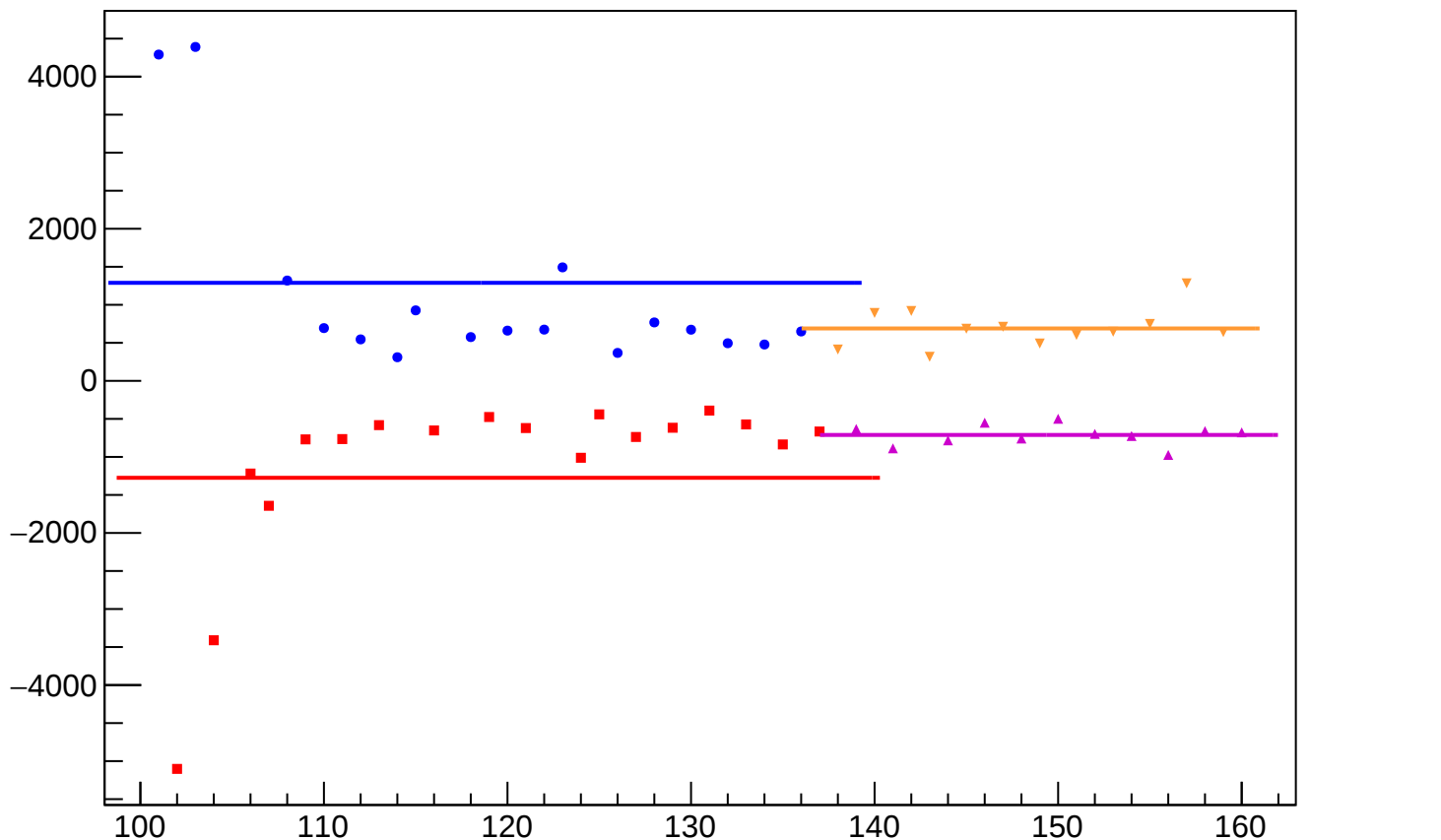
Right: 43.382 +/- 0.000  $\chi^2/\text{NDF}$ : 5704630071660789

In: 2374.723 +/- 0.000  $\chi^2/\text{NDF}$ : 6320353446593987

Out: -1928.973 +/- 0.000  $\chi^2/\text{NDF}$ : 67729726367742

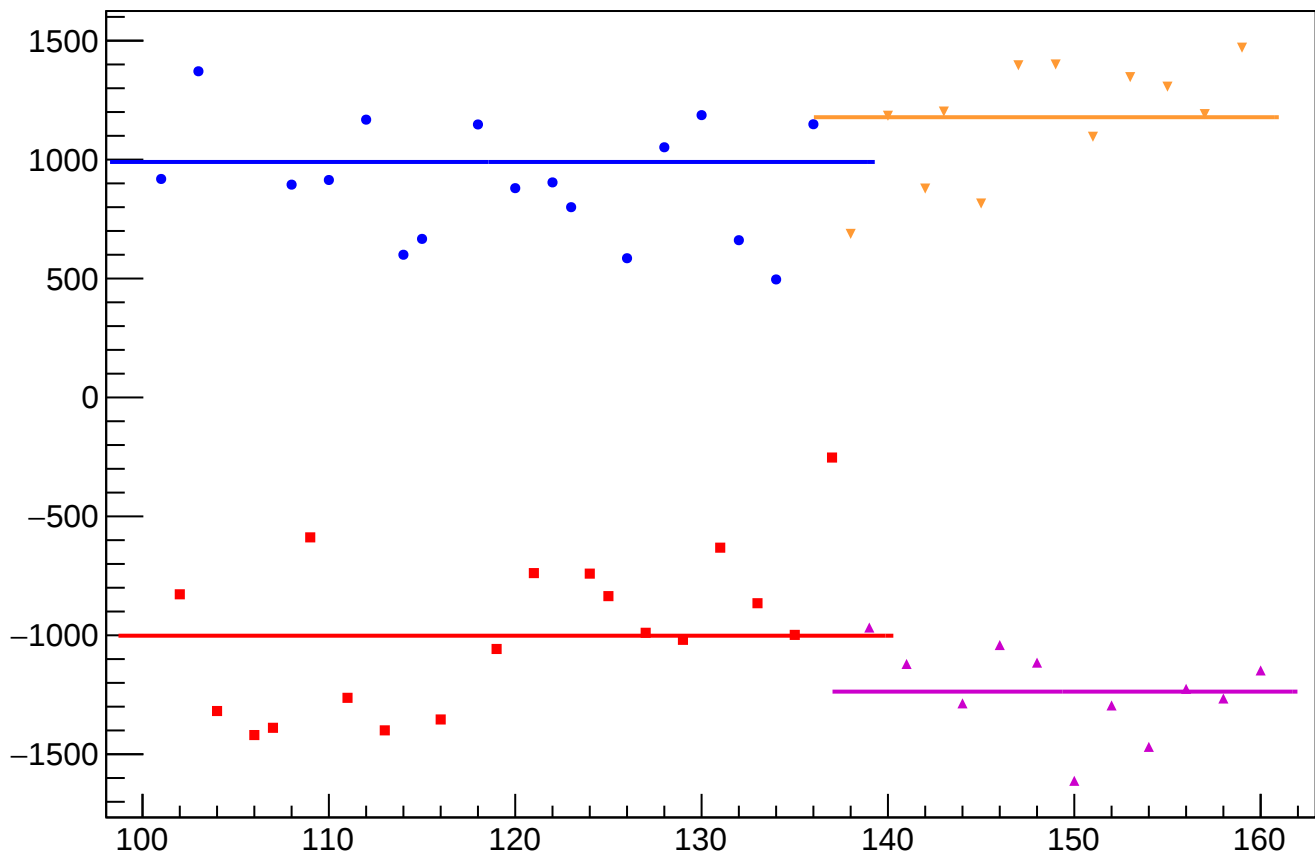
All: 224.860 +/- 0.000  $\chi^2/\text{NDF}$ : 145986839293

dit\_atl2\_coil6\_err\_mean vs Slug, Sign Corrected



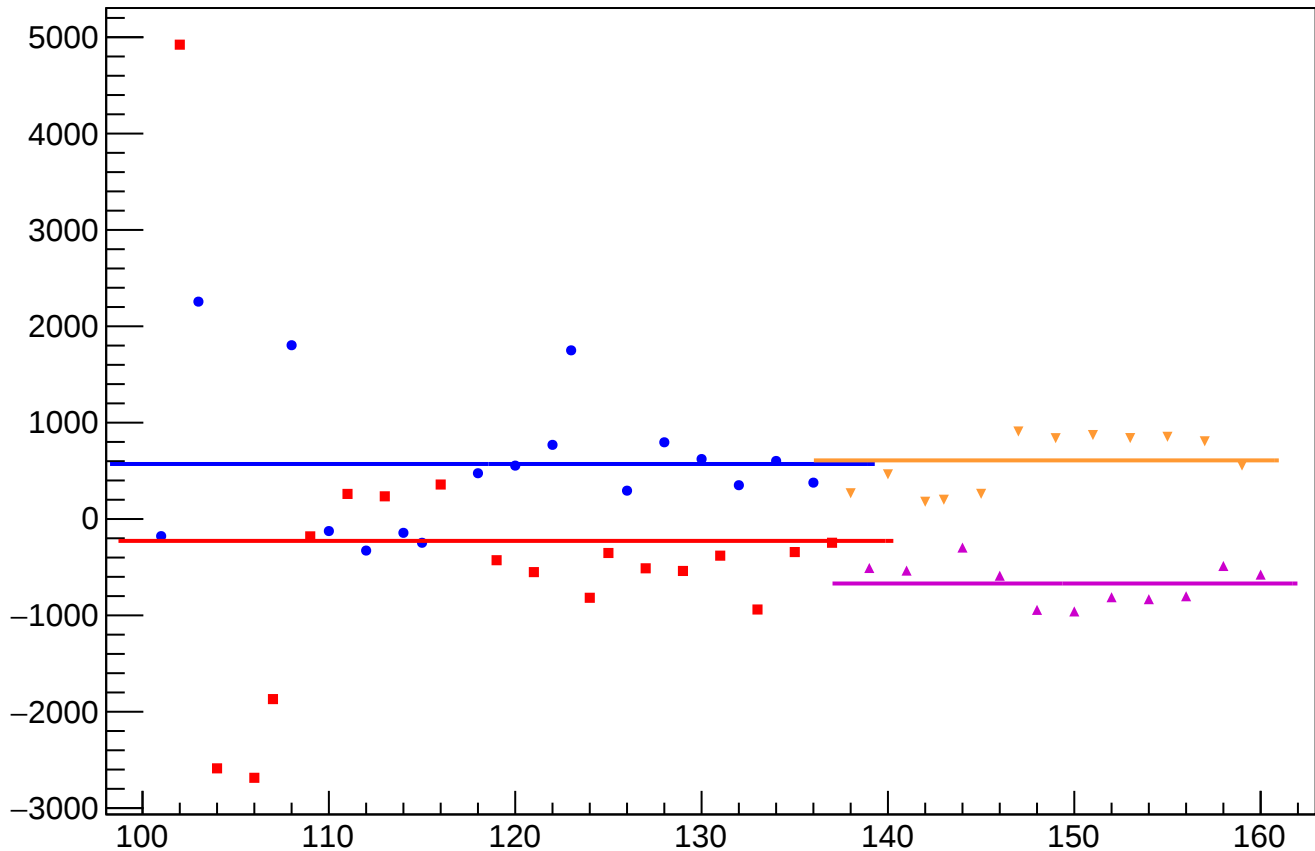
Right In: 1288.972+/-0.000  $\chi^2/\text{NDF}$ : 1352910763882575479104094227028785496064.0/16  
 Left Out: 689.077+/-0.000  $\chi^2/\text{NDF}$ : 51672387047118863079417001056116146176.0/11  
 Right Out: -1274.734+/-0.000  $\chi^2/\text{NDF}$ : 1316265489507064730168544372361657319424.0/17  
 Left In: -711.332+/-0.000  $\chi^2/\text{NDF}$ : 15887933249894385970628581231809265664.0/10  
 All: -16.668+/-0.000  $\chi^2/\text{NDF}$ : 595442451366

dit\_atl2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_atr1\_coil6\_mean vs Slug, Sign Corrected



Right In: 571.105+/-0.000

$\chi^2/\text{NDF}$ : 348676559810482432881112105158952615936.0/16

Left Out: 608.402+/-0.000

$\chi^2/\text{NDF}$ : 69117421342453825845201605751792992256.0/11

Right Out: -227.021+/-0.000

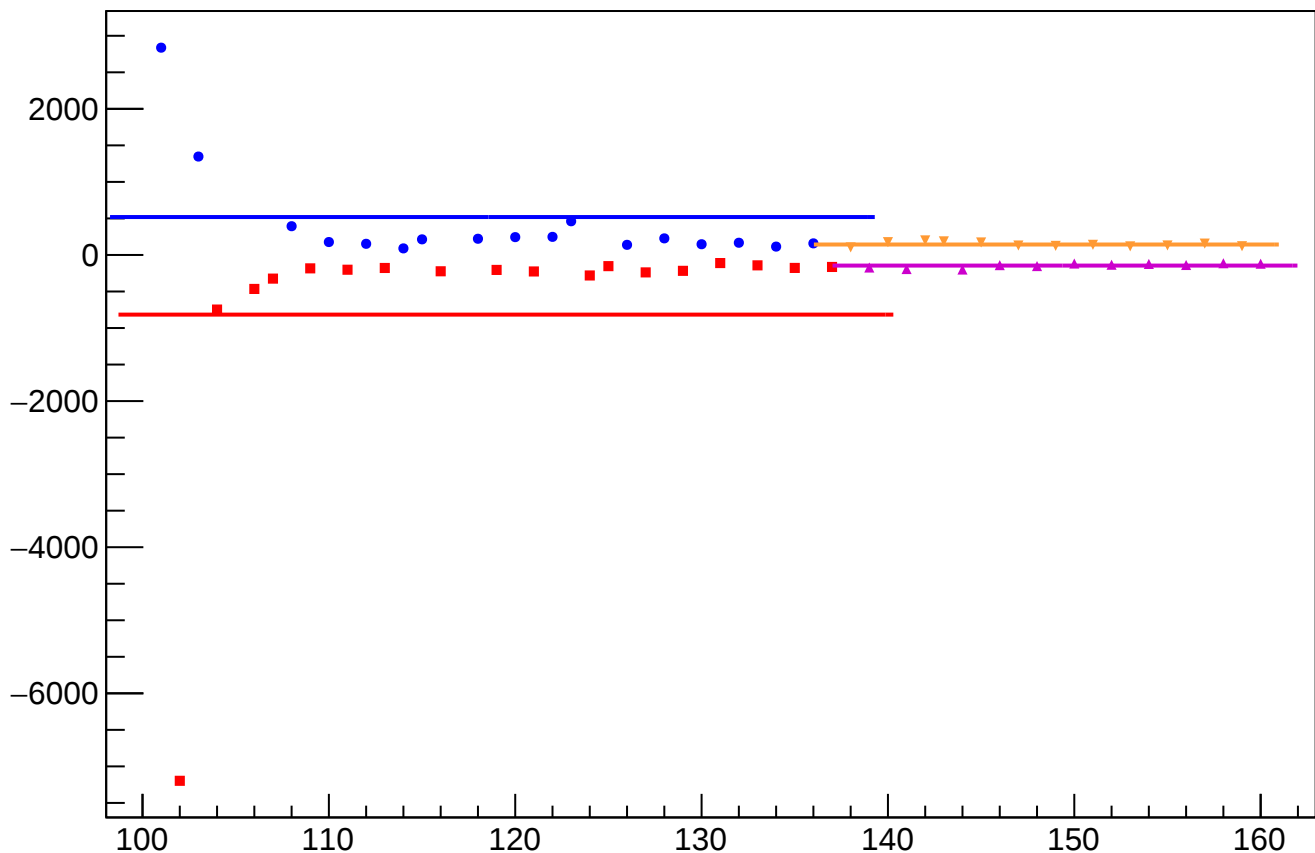
$\chi^2/\text{NDF}$ : 2178465037537899335461890002061994491904.0/17

Left In: -669.223+/-0.000

$\chi^2/\text{NDF}$ : 39382312244115775396192244581527453696.0/10

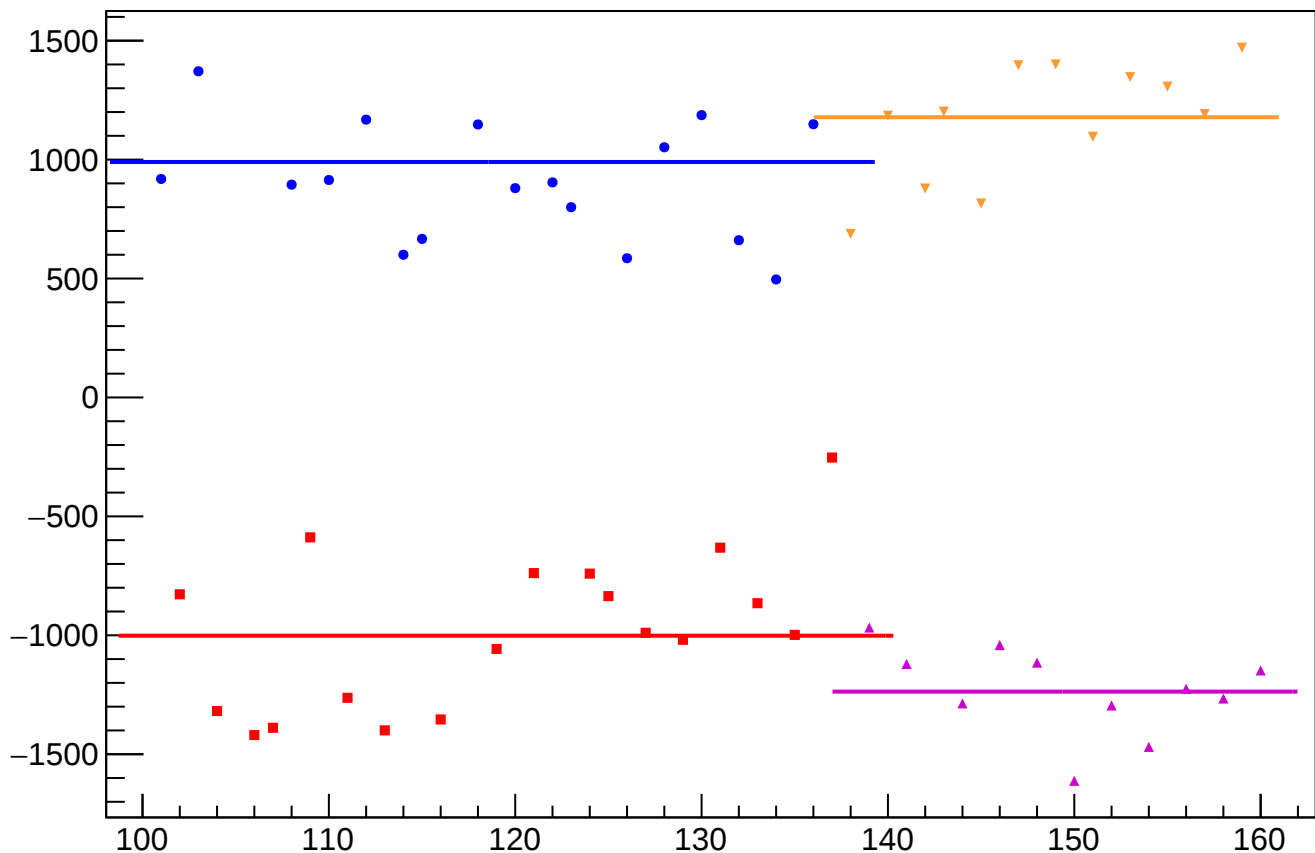
All: 50.040+/-0.000  $\chi^2/\text{NDF}$ : 3645028648995

dit\_atr1\_coil6\_err\_mean vs Slug, Sign Corrected



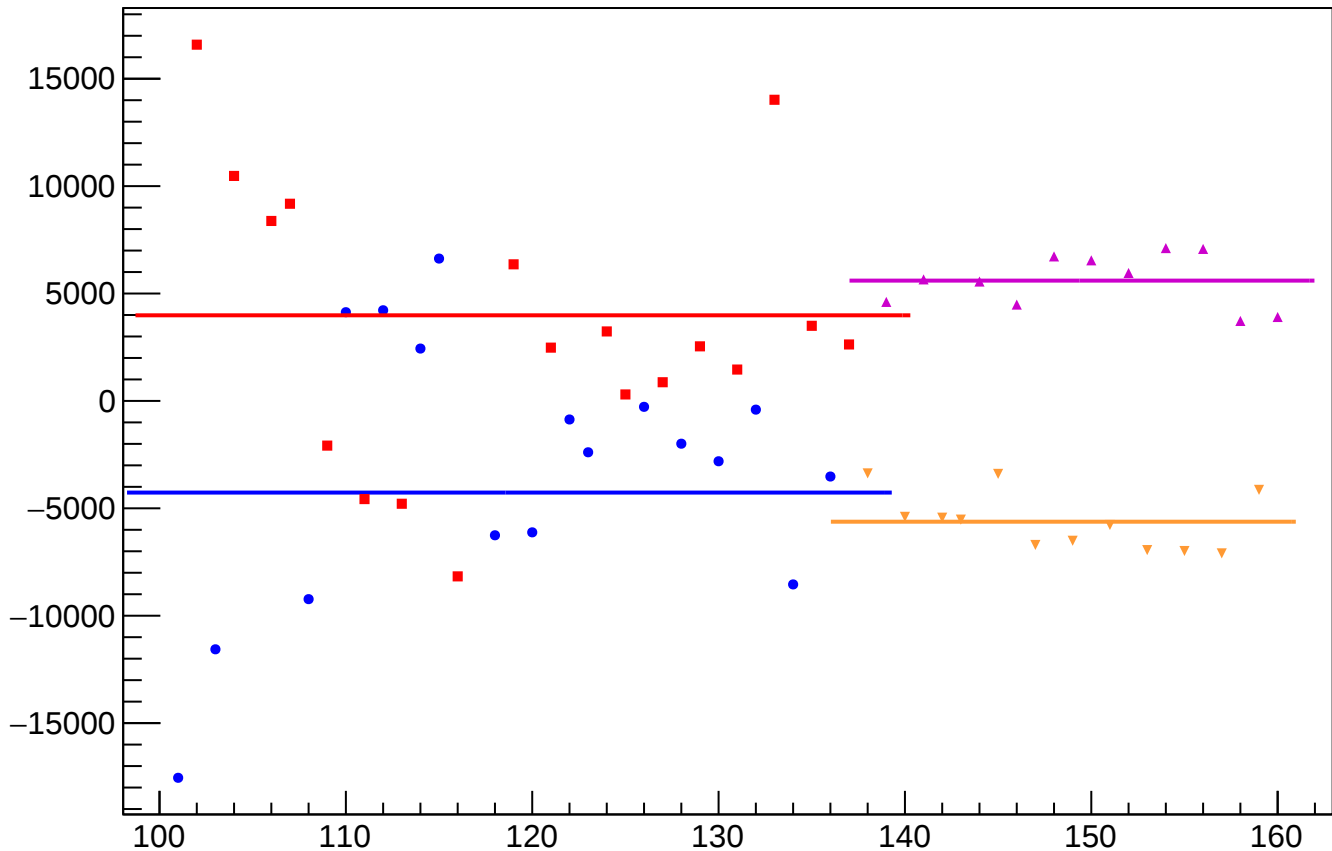
|                             |                                                                     |                                    |                                         |
|-----------------------------|---------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| Right In: 519.063+/-0.000   | $\chi^2/\text{NDF}$ : 420187131793740379632134790837132328960.0/16  | Left: -2.953+/-0.000               | $\chi^2/\text{NDF}$ : 39788843072448788 |
| Left Out: 143.116+/-0.000   | $\chi^2/\text{NDF}$ : 711290210266154833943358309092294656.0/11     | Right: -158.643+/-0.000            | $\chi^2/\text{NDF}$ : 36351558307835    |
| Right Out: -816.445+/-0.000 | $\chi^2/\text{NDF}$ : 2586841774338234136799977462346624794624.0/17 | In: 138.106+/-0.000                | $\chi^2/\text{NDF}$ : 59661217272548168 |
| Left In: -145.264+/-0.000   | $\chi^2/\text{NDF}$ : 787451488433589165323793528208228352.0/10     | Out: -279.351+/-0.000              | $\chi^2/\text{NDF}$ : 295604583787737   |
|                             | All: -70.430+/-0.000                                                | $\chi^2/\text{NDF}$ : 369429588208 |                                         |

dit\_atr1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left: -45.003+/-0.000  $\chi^2/\text{NDF}$ : 2767859757374114  
 Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234  
 In: -286.905+/-0.000  $\chi^2/\text{NDF}$ : 2040776092386221  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Out: 218.490+/-0.000  $\chi^2/\text{NDF}$ : 2015349576700865  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_atr2\_coil6\_mean vs Slug, Sign Corrected



Right In: -4266.932+/-0.000

$\chi^2/\text{NDF}$ : 25403959108162984315551486343624496513024.0/16

Left Out: -5623.118+/-0.000

$\chi^2/\text{NDF}$ : 1581209031874296874377039249105372577792.0/11

Right Out: 3985.866+/-0.000

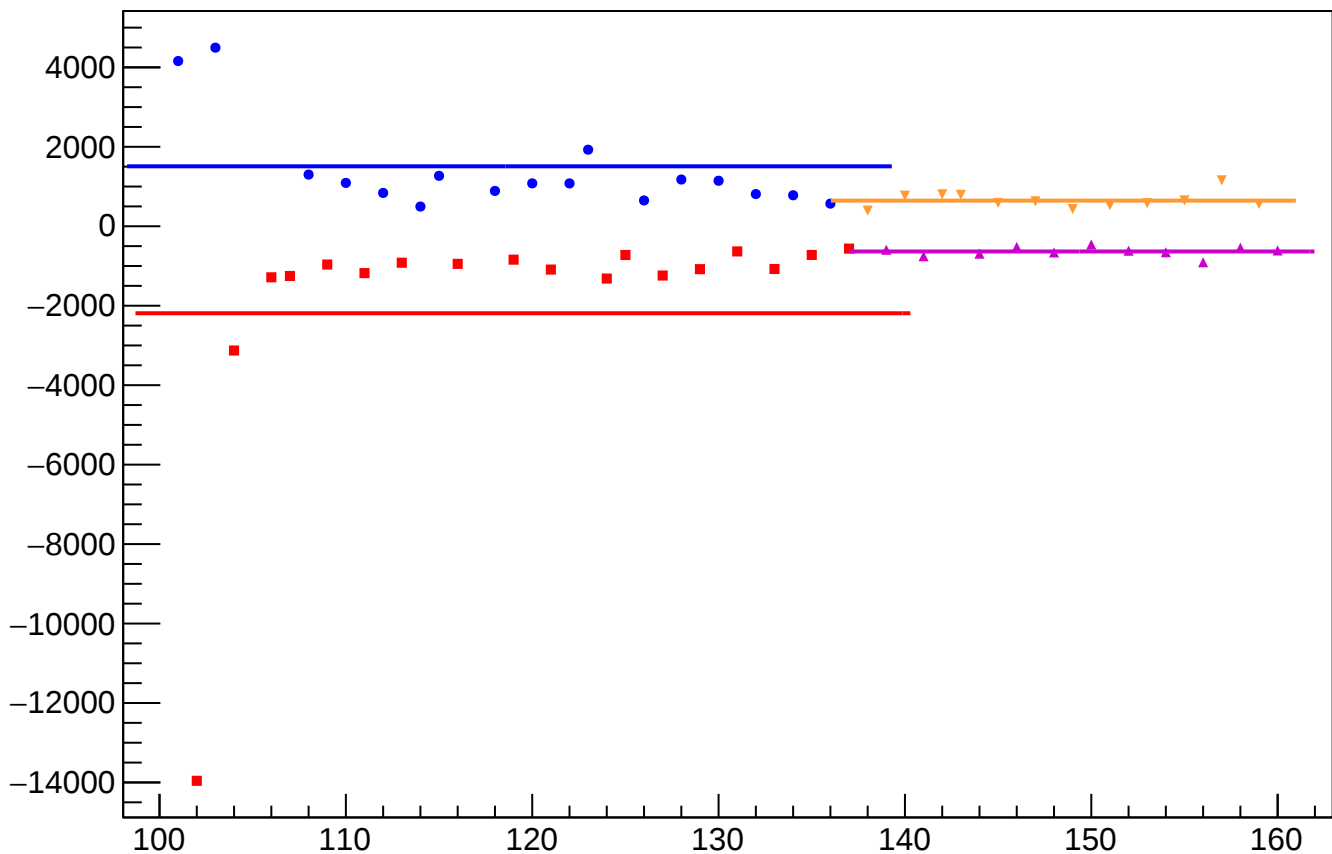
$\chi^2/\text{NDF}$ : 31378292211366162940134938718336985333760.0/17

Left In: 5600.969+/-0.000

$\chi^2/\text{NDF}$ : 1284033803057879693677598537255558840320.0/10

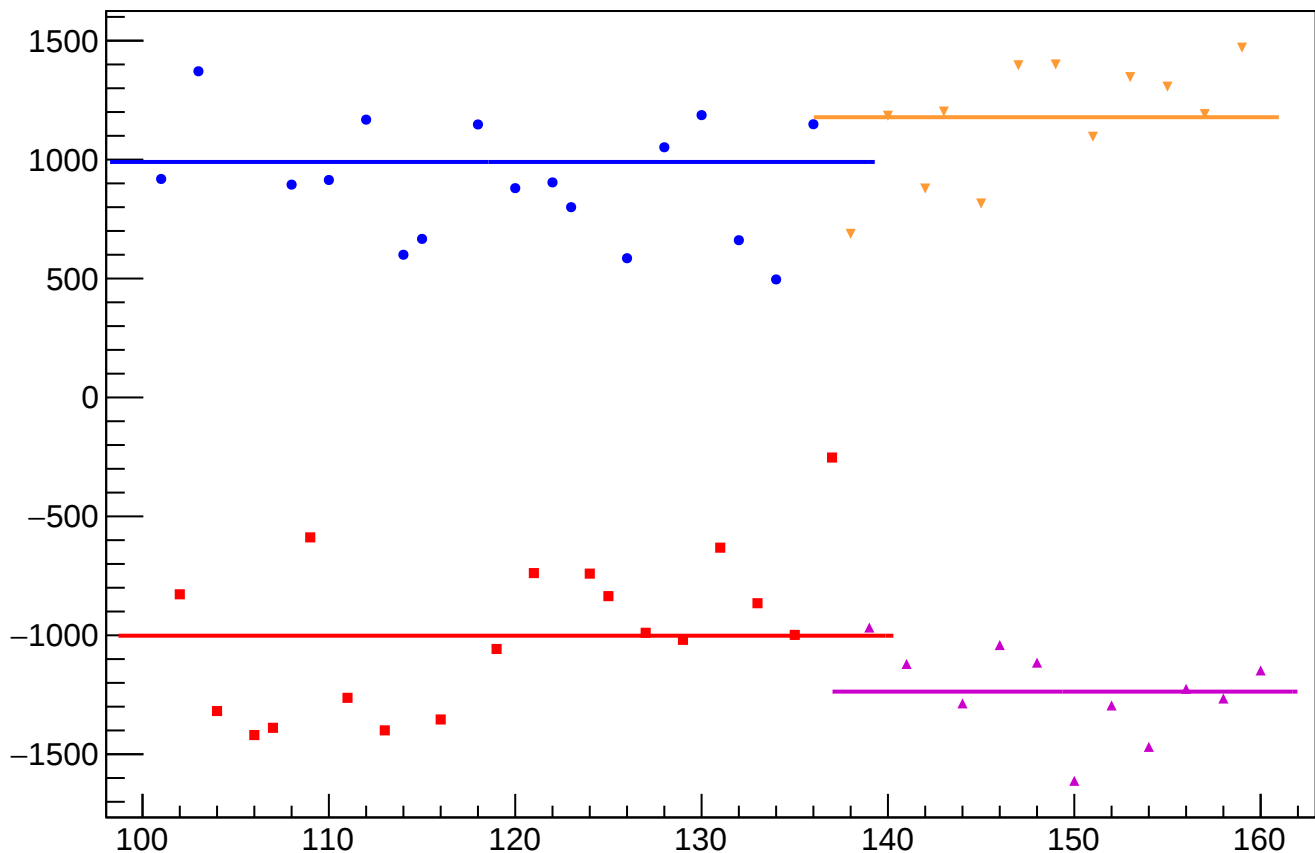
All: 0.902+/-0.000  $\chi^2/\text{NDF}$ : 14165334325845

# dit\_atr2\_coil6\_err\_mean vs Slug, Sign Corrected



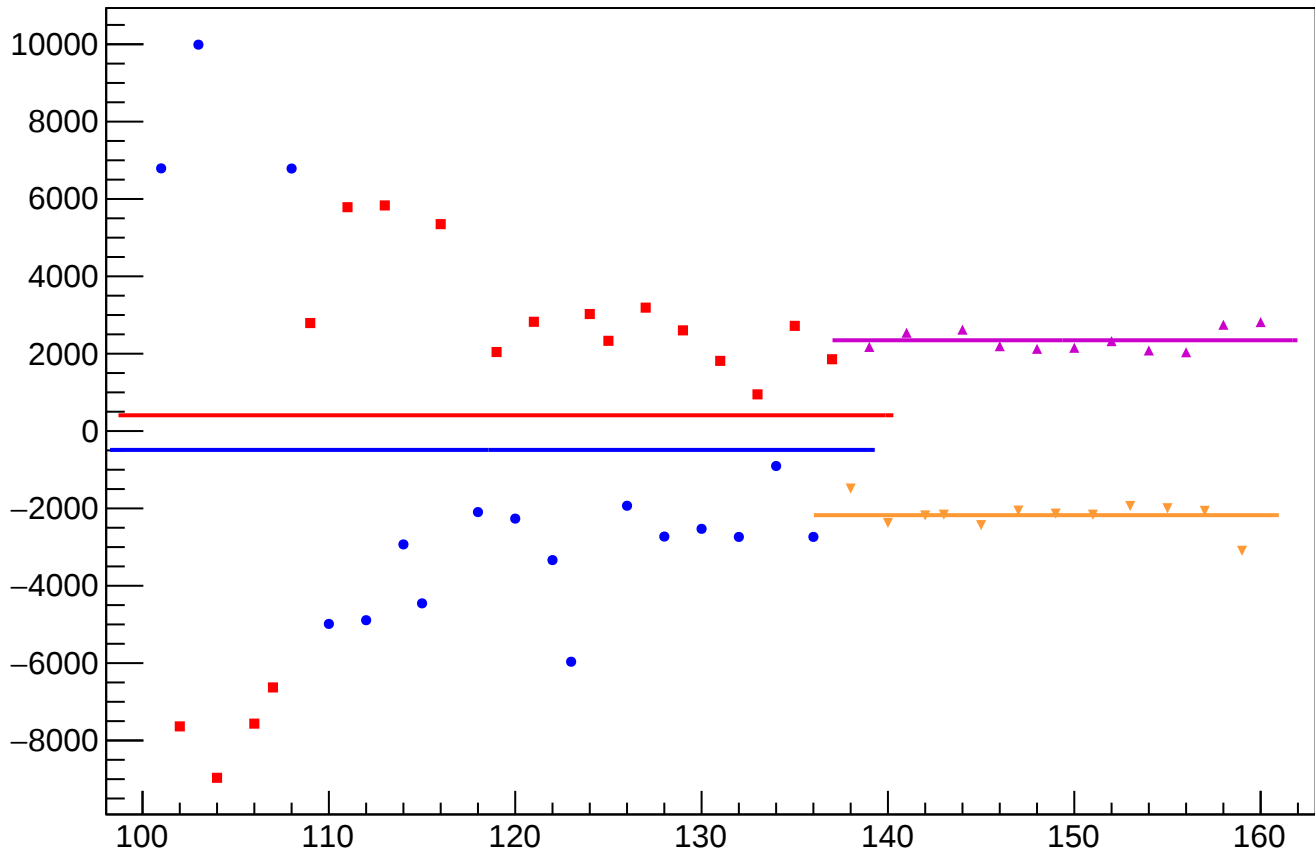
Right In: 1509.121+/-0.000  $\chi^2/\text{NDF}$ : 1169972089698319936649693761541425332224.0/16  
 Left Out: 646.174+/-0.000  $\chi^2/\text{NDF}$ : 34105781677425395538056373827956375552.0/11  
 Right Out: -2189.301+/-0.000  $\chi^2/\text{NDF}$ : 8986539063289018670432989988372162281472.0/17  
 Left In: -634.343+/-0.000  $\chi^2/\text{NDF}$ : 12312915107383873124917312703313215488.0/10  
 All: -160.717+/-0.000  $\chi^2/\text{NDF}$ : 15881502156

dit\_atr2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $990.104 \pm 0.000$   $\chi^2/\text{NDF}: 36894248833595574425684746704003268608.0/16$   
 Left Out:  $1178.253 \pm 0.000$   $\chi^2/\text{NDF}: 52167705532463382200265414592767721472.0/11$   
 Right Out:  $-1001.684 \pm 0.000$   $\chi^2/\text{NDF}: 61351571695254109773751672489010790400.0/17$   
 Left In:  $-1236.792 \pm 0.000$   $\chi^2/\text{NDF}: 30308096320717107629965970940123676672.0/10$   
 All:  $-34.441 \pm 0.000$   $\chi^2/\text{NDF}: 426372184117$

dit\_sam1\_coil6\_mean vs Slug, Sign Corrected



Right In: -487.313+/-0.000

$\chi^2/\text{NDF}$ : 15477070218746492867636387900929916010496.0/16

Left Out: -2174.754+/-0.000

$\chi^2/\text{NDF}$ : 122757210138541314425031010279093174272.0/11

Right Out: 407.637+/-0.000

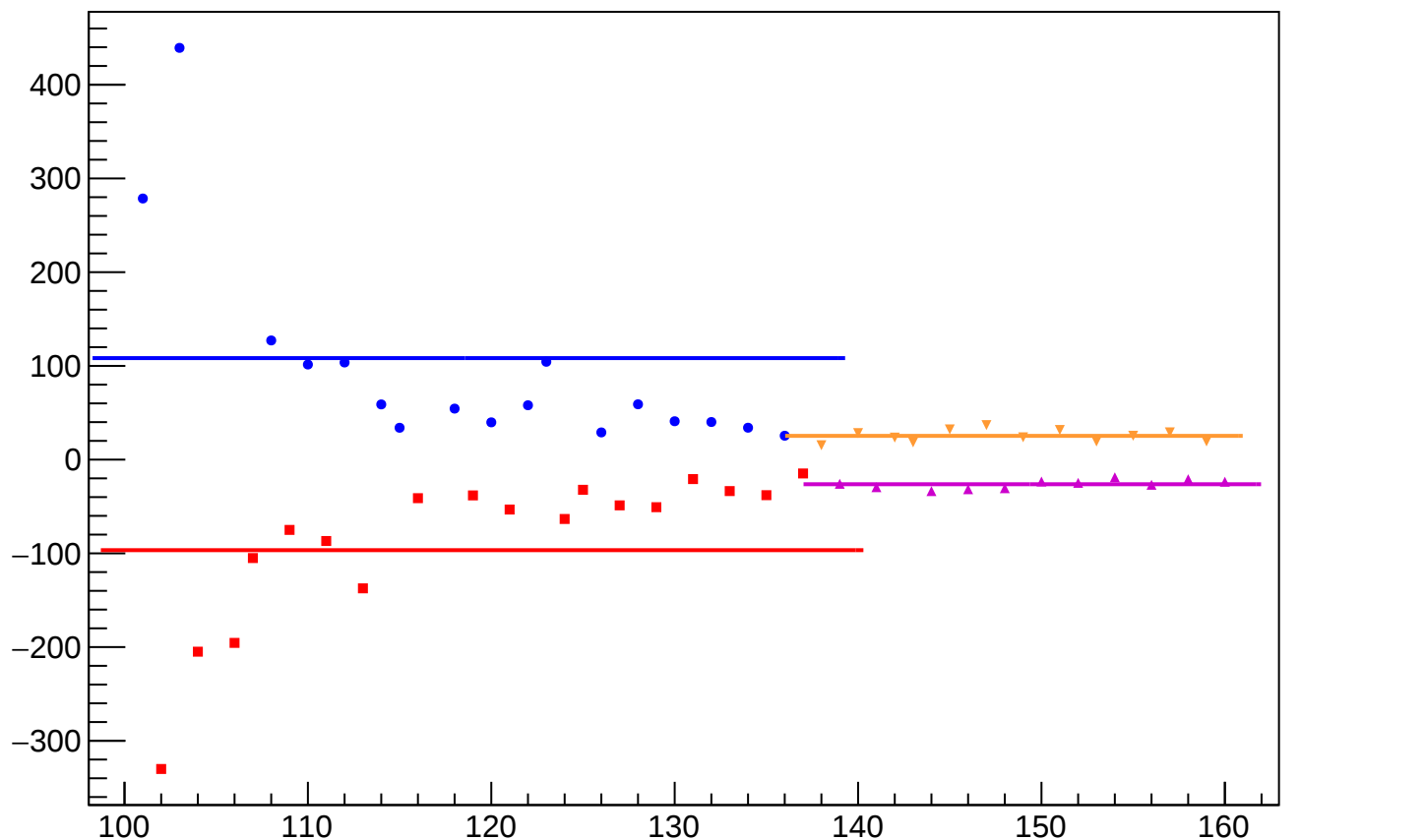
$\chi^2/\text{NDF}$ : 17046160329483633481850056075702270164992.0/17

Left In: 2346.925+/-0.000

$\chi^2/\text{NDF}$ : 6716906327196763069010620899655680.0/10

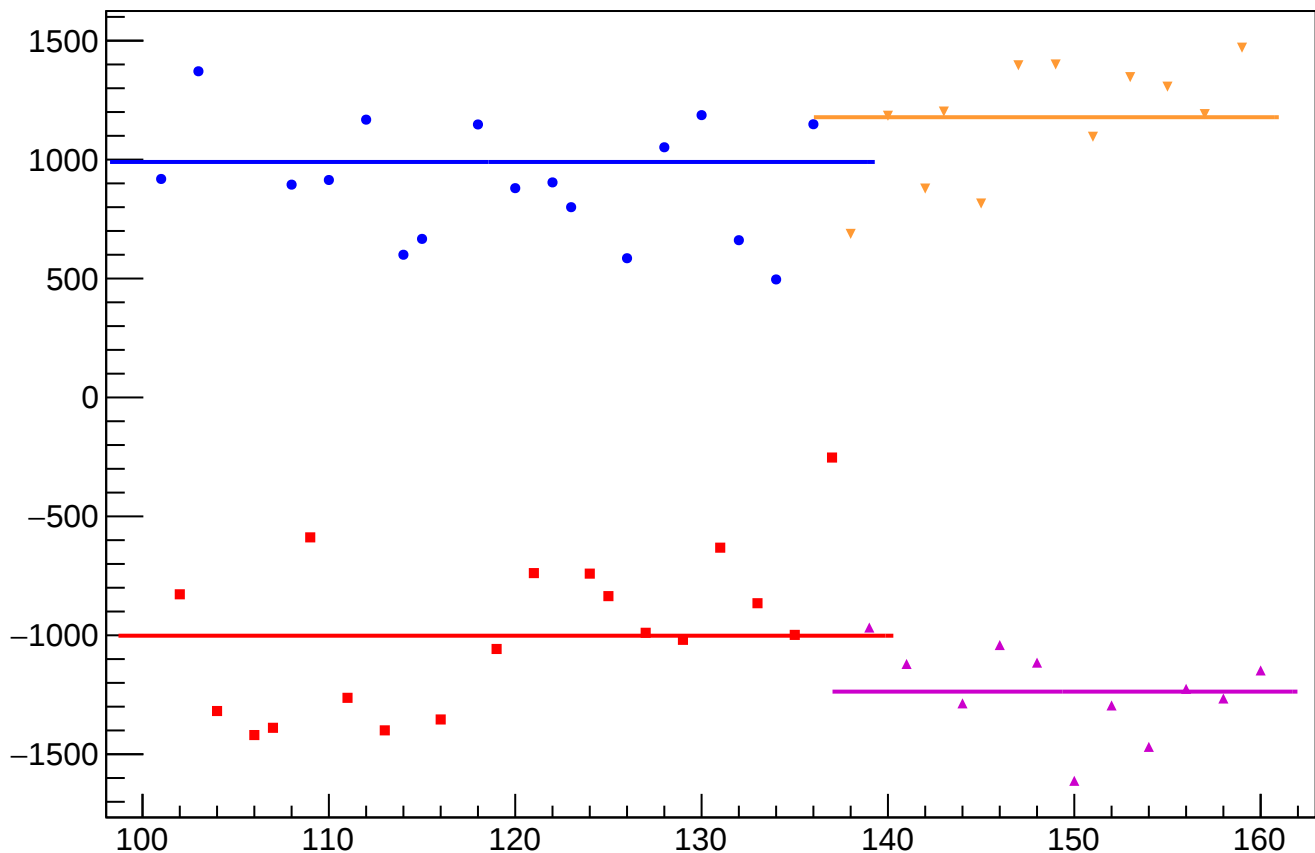
All: 51.090+/-0.000  $\chi^2/\text{NDF}$ : 4242647048675

dit\_sam1\_coil6\_err\_mean vs Slug, Sign Corrected



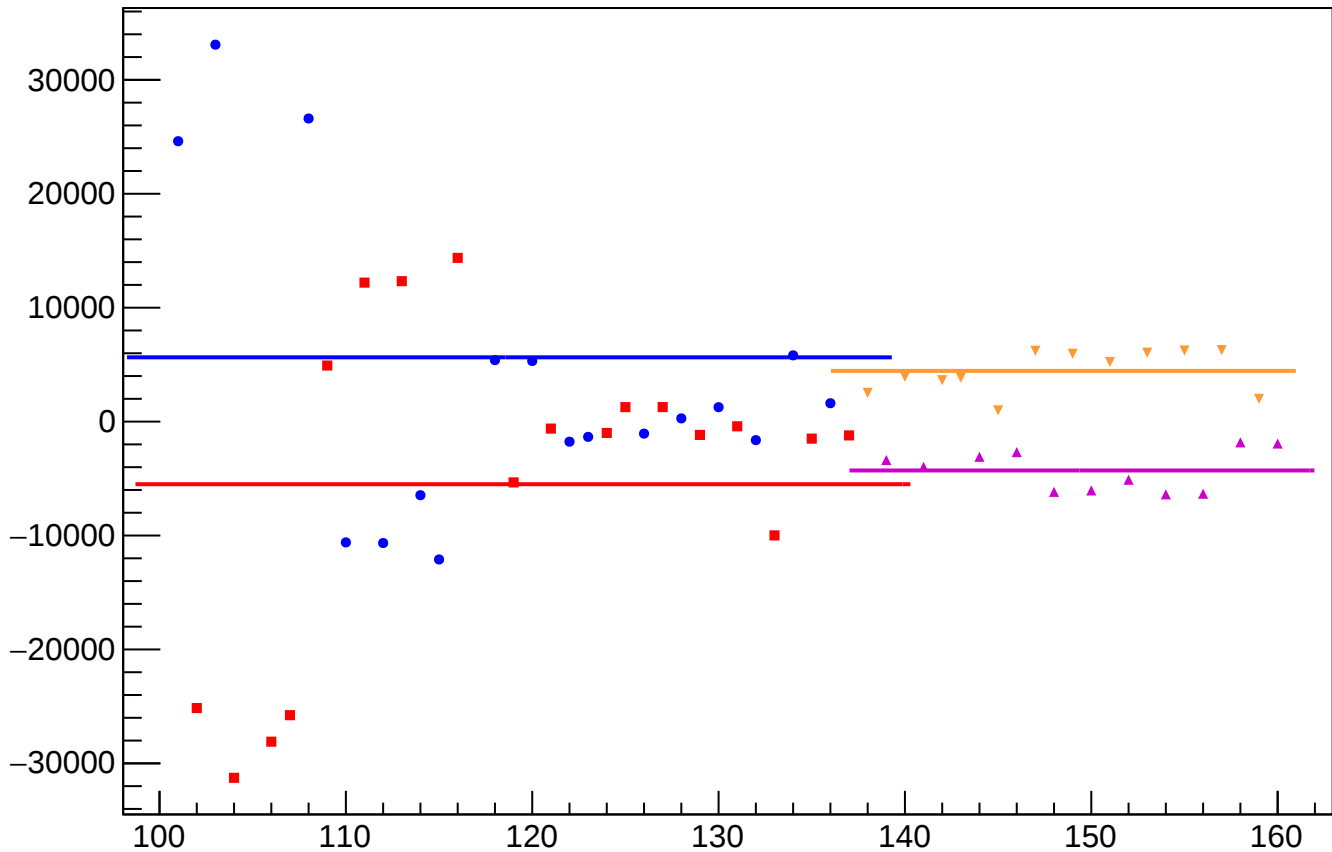
Right In: 108.310 +/- 0.000  $\chi^2/\text{NDF}$ : 10240592139421231918957200369451532288.0/16  
 Left Out: 25.343 +/- 0.000  $\chi^2/\text{NDF}$ : 36110419999442203641332872035434496.0/11  
 Right Out: -96.612 +/- 0.000  $\chi^2/\text{NDF}$ : 5525873832888071130304914389362278400.0/17  
 Left In: -26.267 +/- 0.000  $\chi^2/\text{NDF}$ : 18381454665021153689982878819024896.0/10  
 All: 1.421 +/- 0.000  $\chi^2/\text{NDF}$ : 31856999300877

dit\_sam1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



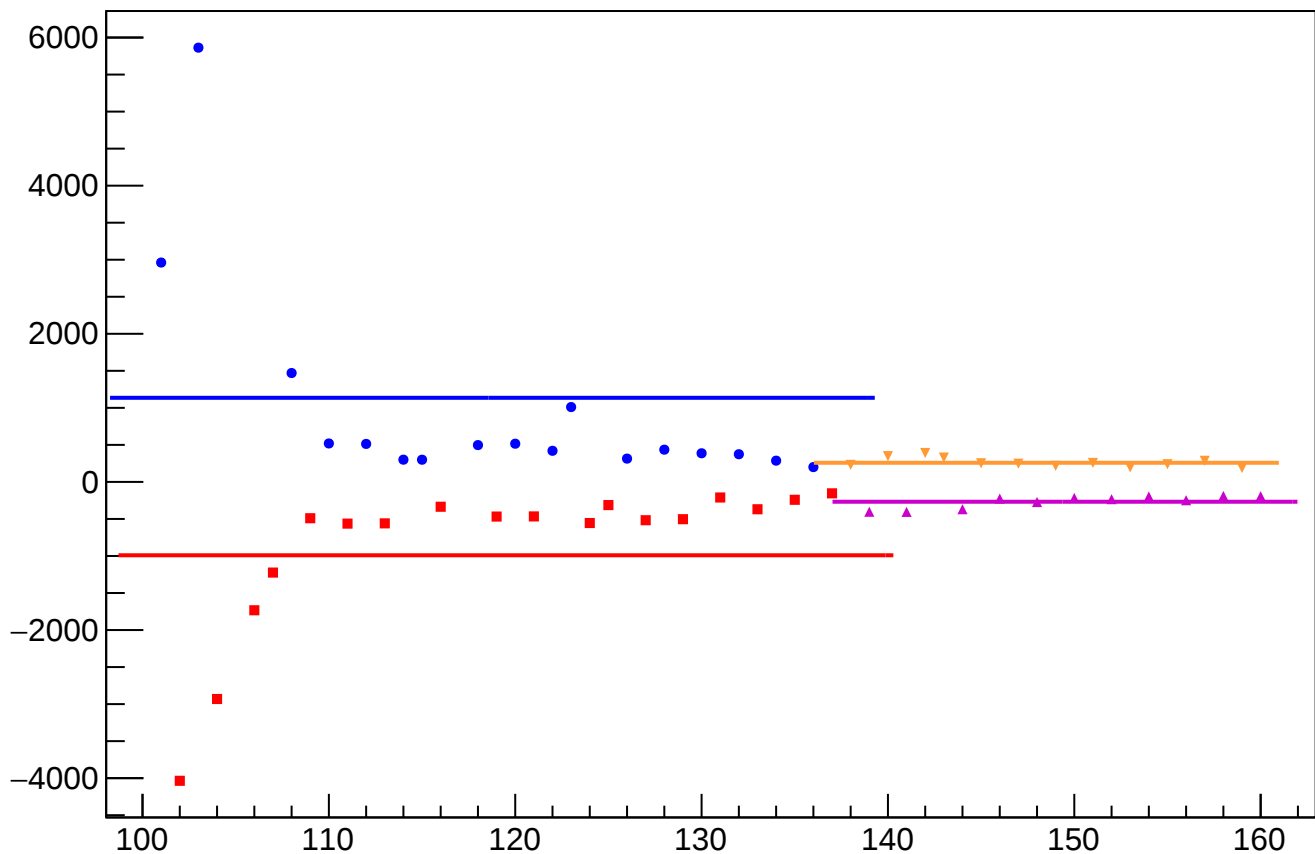
Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_sam2\_coil6\_mean vs Slug, Sign Corrected



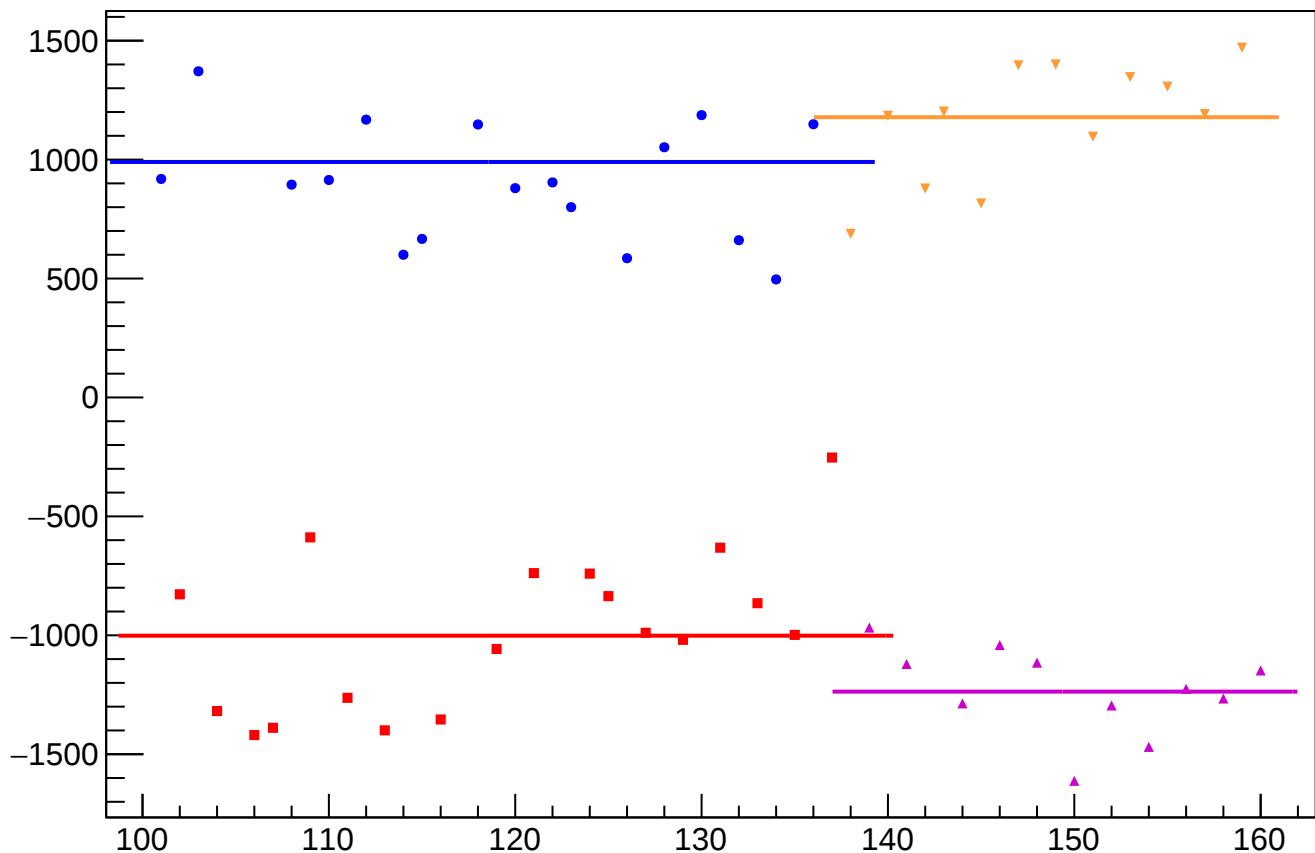
Right In: 5643.213+/-0.000  $\chi^2/\text{NDF}$ : 120843746110128548402153277612724047577088.0/16  
 Left Out: 4452.458+/-0.000  $\chi^2/\text{NDF}$ : 2985929789295198919987260133715107381248.0/11  
 Right Out: -5495.452+/-0.000  $\chi^2/\text{NDF}$ : 139584988563962510194230278268369577705472.0/17  
 Left In: -4288.058+/-0.000  $\chi^2/\text{NDF}$ : 273563671238509418745516578877797910528.0/10  
 All: 10.356+/-0.000  $\chi^2/\text{NDF}$ : 3450198120051

dit\_sam2\_coil6\_err\_mean vs Slug, Sign Corrected



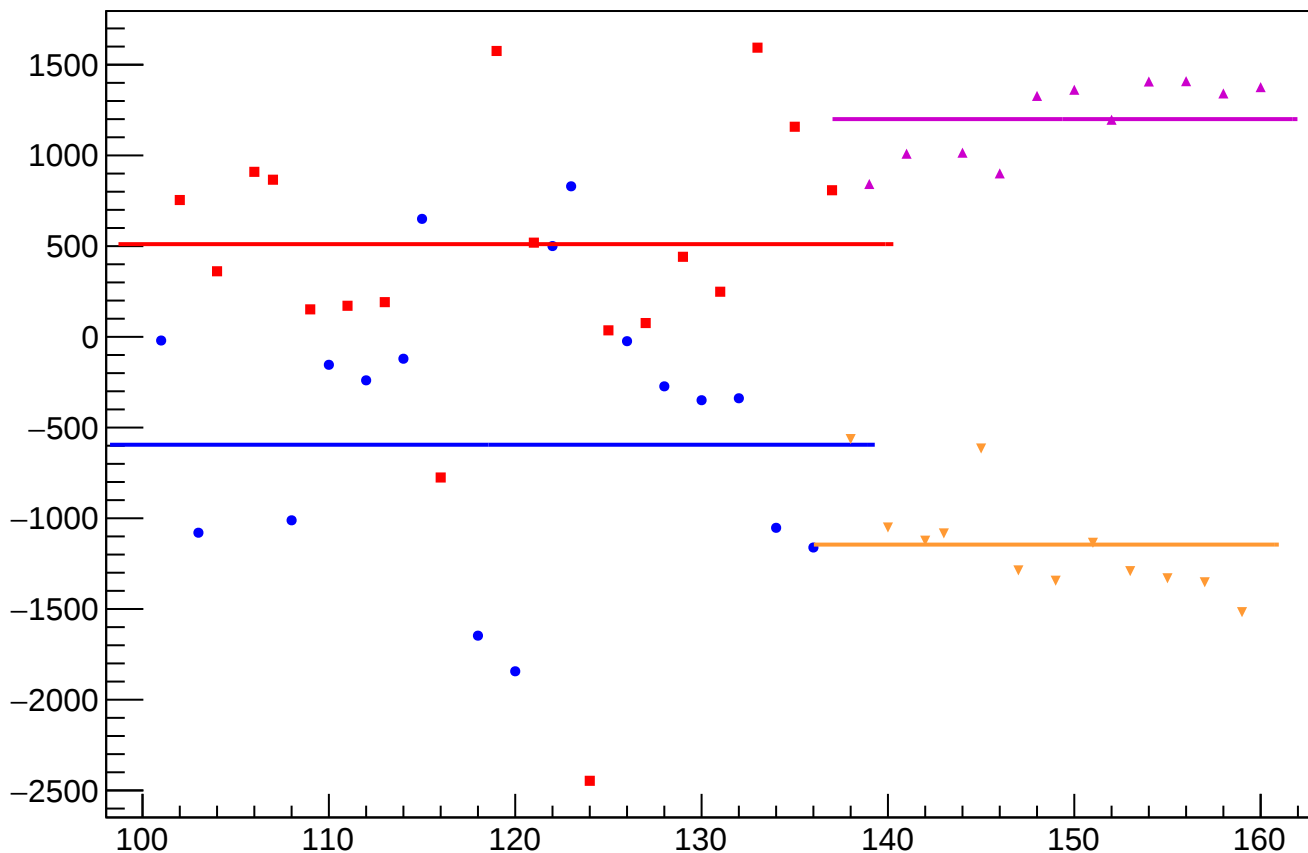
Right In: 1135.811+/-0.000  $\chi^2/\text{NDF}$ : 1824005819812756990146951558918737756160.0/16  
 Left Out: 258.670+/-0.000  $\chi^2/\text{NDF}$ : 2829286833241859007622586413730496512.0/11  
 Right Out: -990.520+/-0.000  $\chi^2/\text{NDF}$ : 932180516409120093653543317868461948928.0/17  
 Left In: -267.701+/-0.000  $\chi^2/\text{NDF}$ : 5915399599612443264375094627914481664.0/10  
 All: 20.116+/-0.000  $\chi^2/\text{NDF}$ : 4488112882627

dit\_sam2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_sam3\_coil6\_mean vs Slug, Sign Corrected



Right In: -594.642+/-0.000

$\chi^2/\text{NDF}$ : 301185427986157798818990027839559958528.0/16

Left Out: -1145.023+/-0.000

$\chi^2/\text{NDF}$ : 73058158331350430415583816889325846528.0/11

Right Out: 510.991+/-0.000

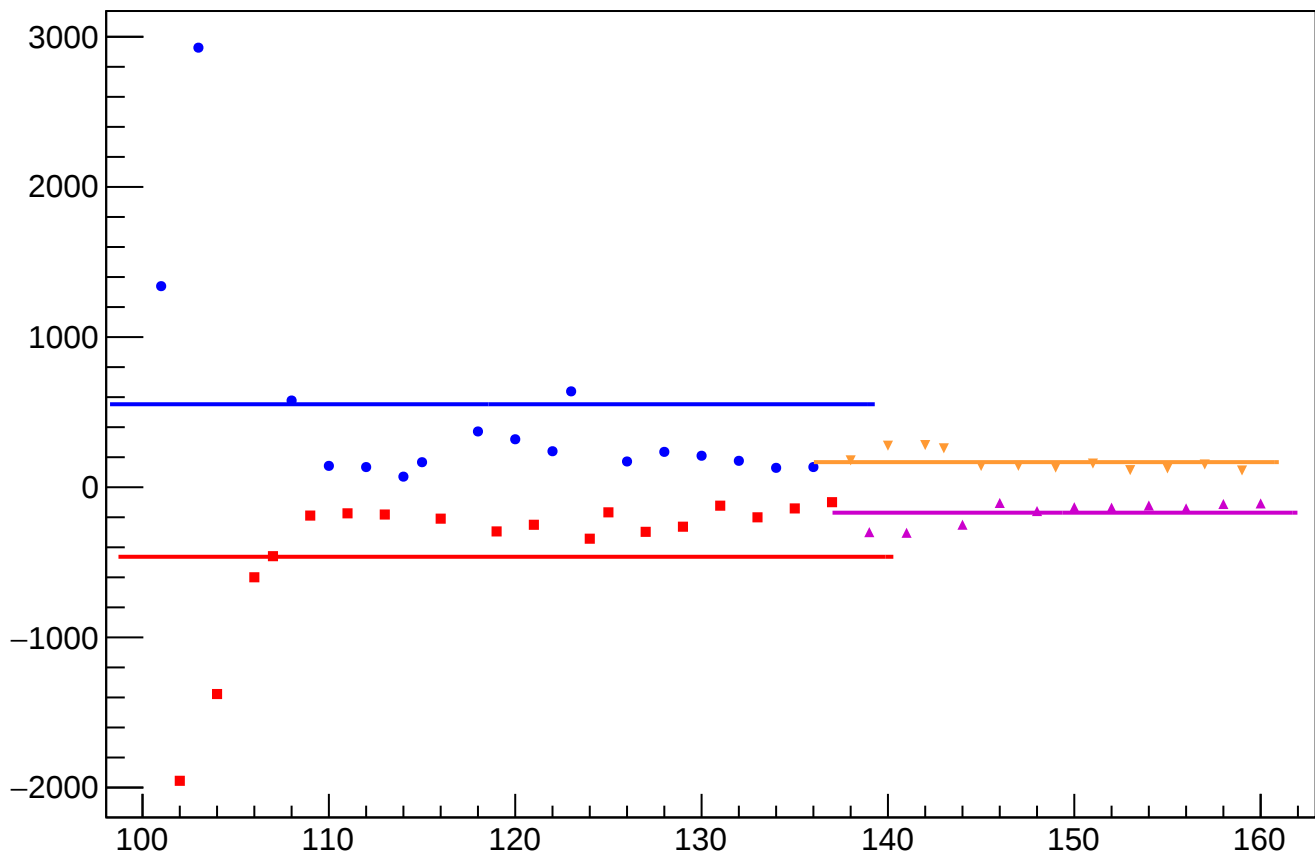
$\chi^2/\text{NDF}$ : 345692362052681149269006983787007967232.0/17

Left In: 1200.159+/-0.000

$\chi^2/\text{NDF}$ : 39206754972923098015710381582583857152.0/10

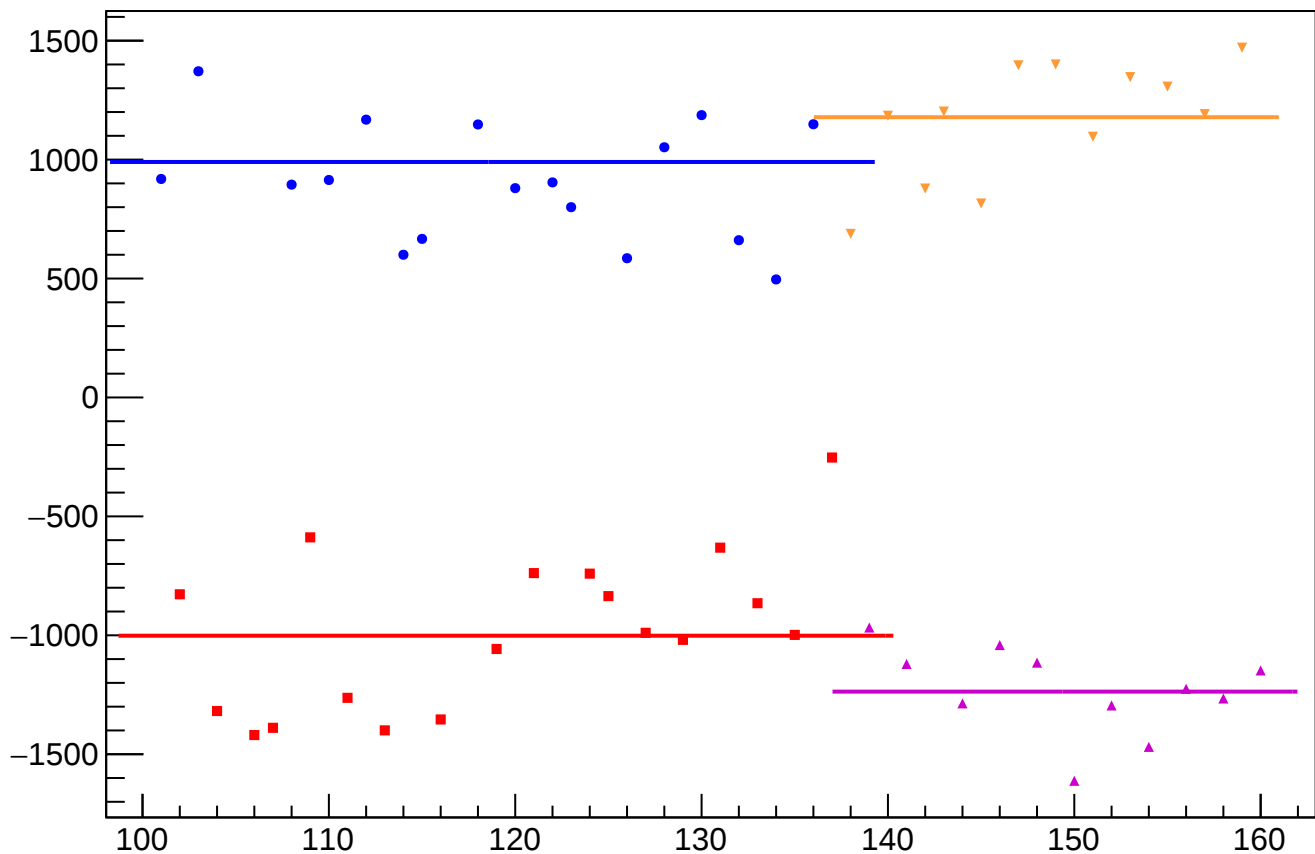
All: 9.720+/-0.000  $\chi^2/\text{NDF}$ : 37265736516506

dit\_sam3\_coil6\_err\_mean vs Slug, Sign Corrected



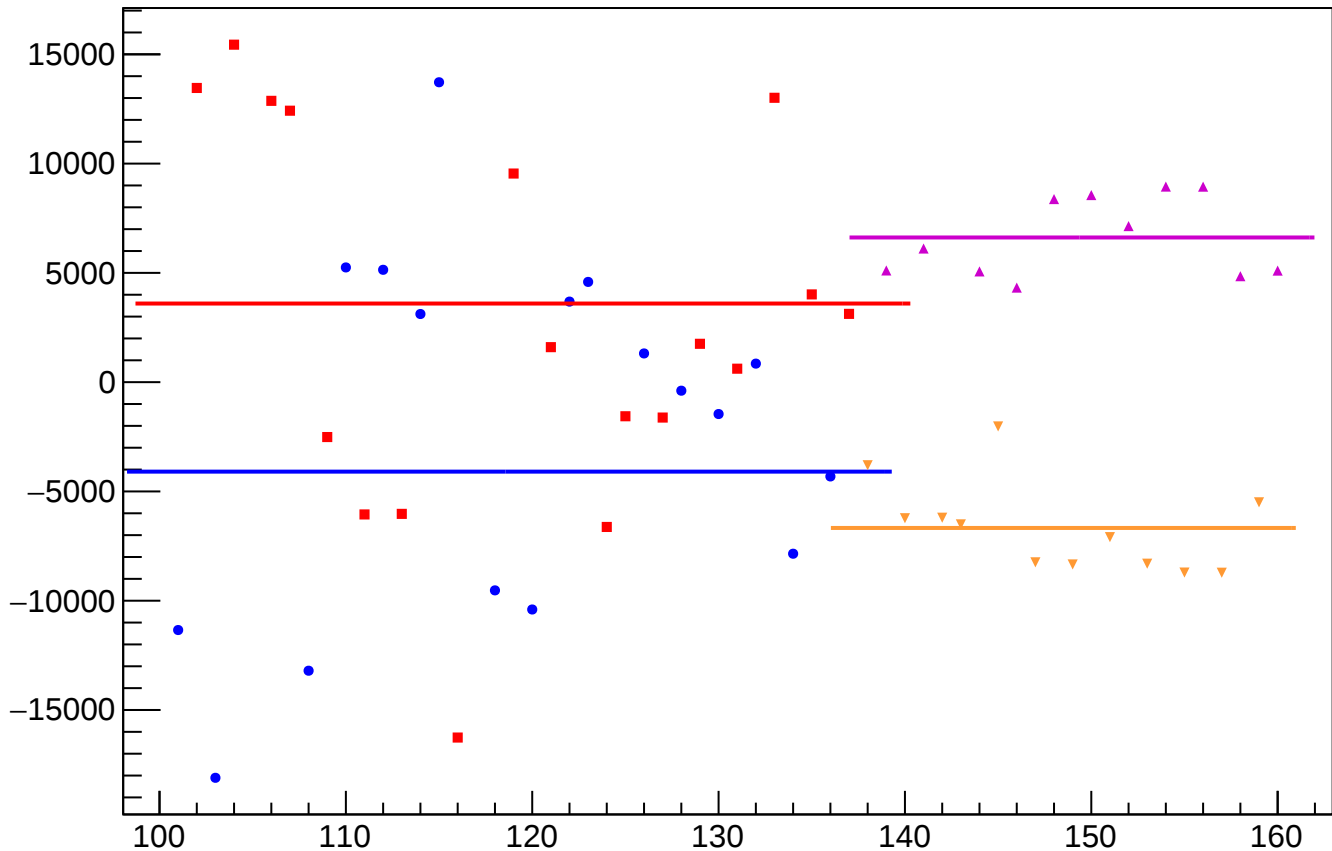
Right In: 552.756+/-0.000  $\chi^2/\text{NDF}$ : 438588904166490483585471990950715719680.0/16  
 Left Out: 167.275+/-0.000  $\chi^2/\text{NDF}$ : 3021189019464897046042040078702739456.0/11  
 Right Out: -463.044+/-0.000  $\chi^2/\text{NDF}$ : 209305475229629435748794855521804877824.0/17  
 Left In: -169.476+/-0.000  $\chi^2/\text{NDF}$ : 4886350669326169514376198750149279744.0/10  
 All: 14.293+/-0.000  $\chi^2/\text{NDF}$ : 1072717340633

dit\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left: -45.003+/-0.000  $\chi^2/\text{NDF}$ : 2767859757374114  
 Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 In: -286.905+/-0.000  $\chi^2/\text{NDF}$ : 2040776092386221  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Out: 218.490+/-0.000  $\chi^2/\text{NDF}$ : 2015349576700865  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

dit\_sam4\_coil6\_mean vs Slug, Sign Corrected



Right In: -4093.788 +/- 0.000

Left Out: -6670.950 +/- 0.000

Right Out: 3597.313 +/- 0.000

Left In: 6619.709 +/- 0.000

Left: 60.964 +/- 0.000  $\chi^2/\text{NDF}$ : 87947728718385241

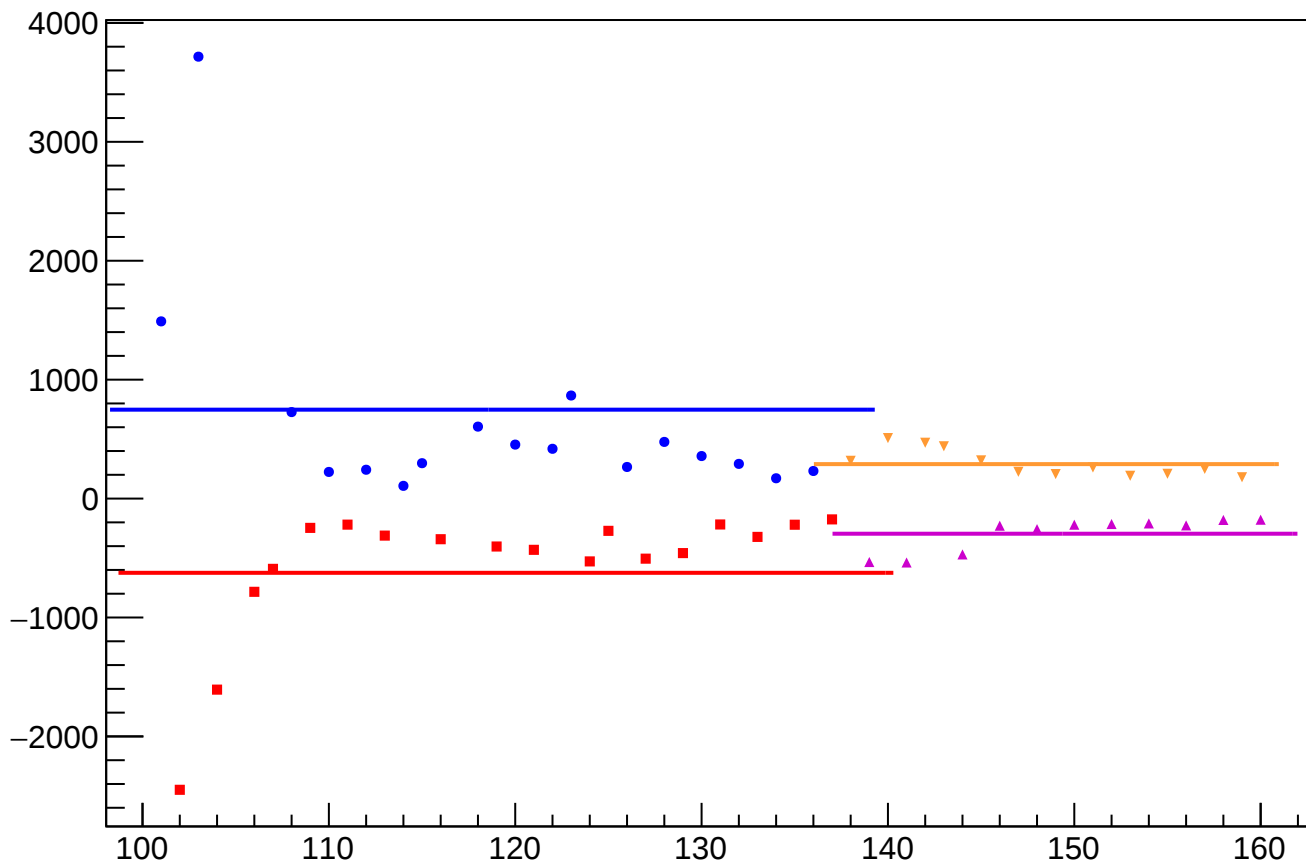
Right: -190.923 +/- 0.000  $\chi^2/\text{NDF}$ : 10832812445866

In: 2049.846 +/- 0.000  $\chi^2/\text{NDF}$ : 8740097605988358

Out: -2150.132 +/- 0.000  $\chi^2/\text{NDF}$ : 94588776360952

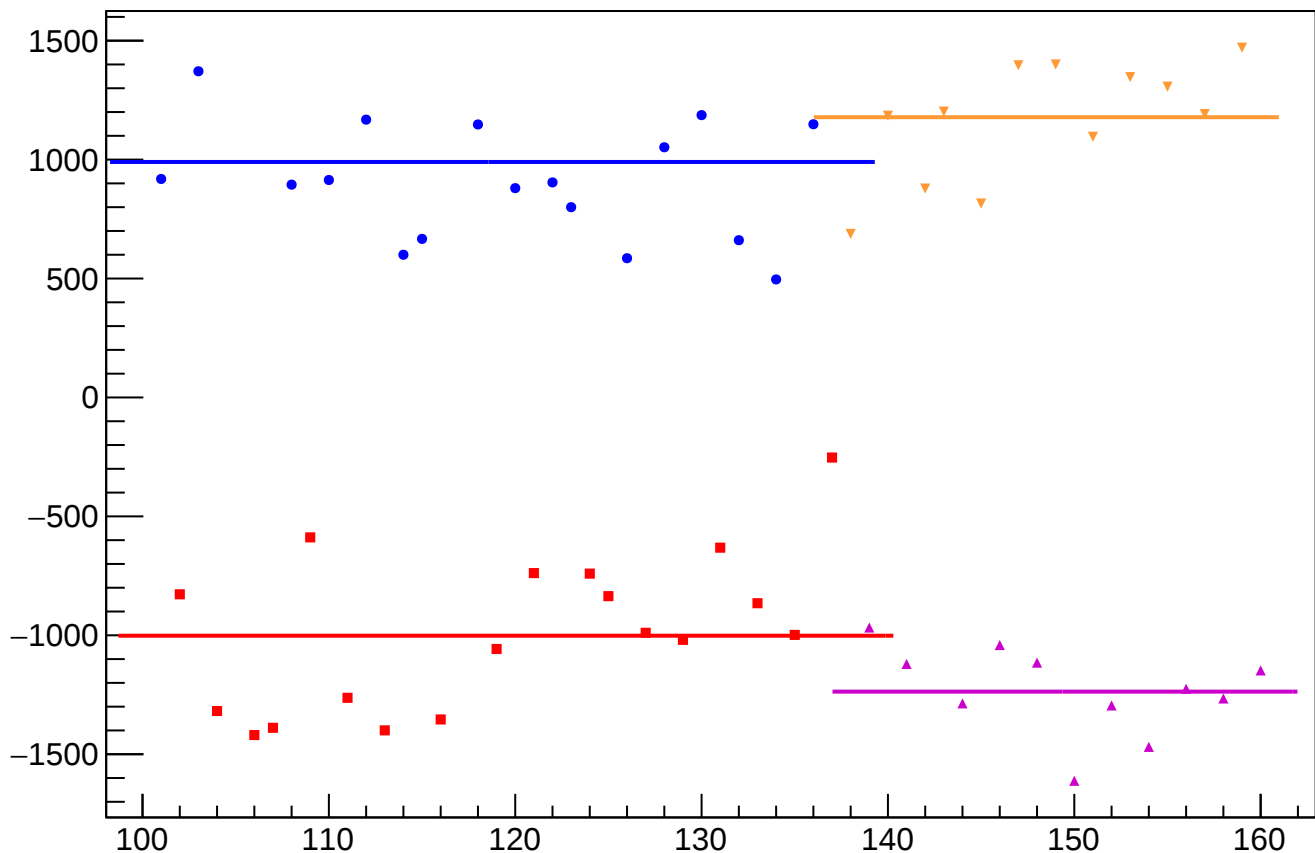
All: -48.205 +/- 0.000  $\chi^2/\text{NDF}$ : 196326504713

# dit\_sam4\_coil6\_err\_mean vs Slug, Sign Corrected



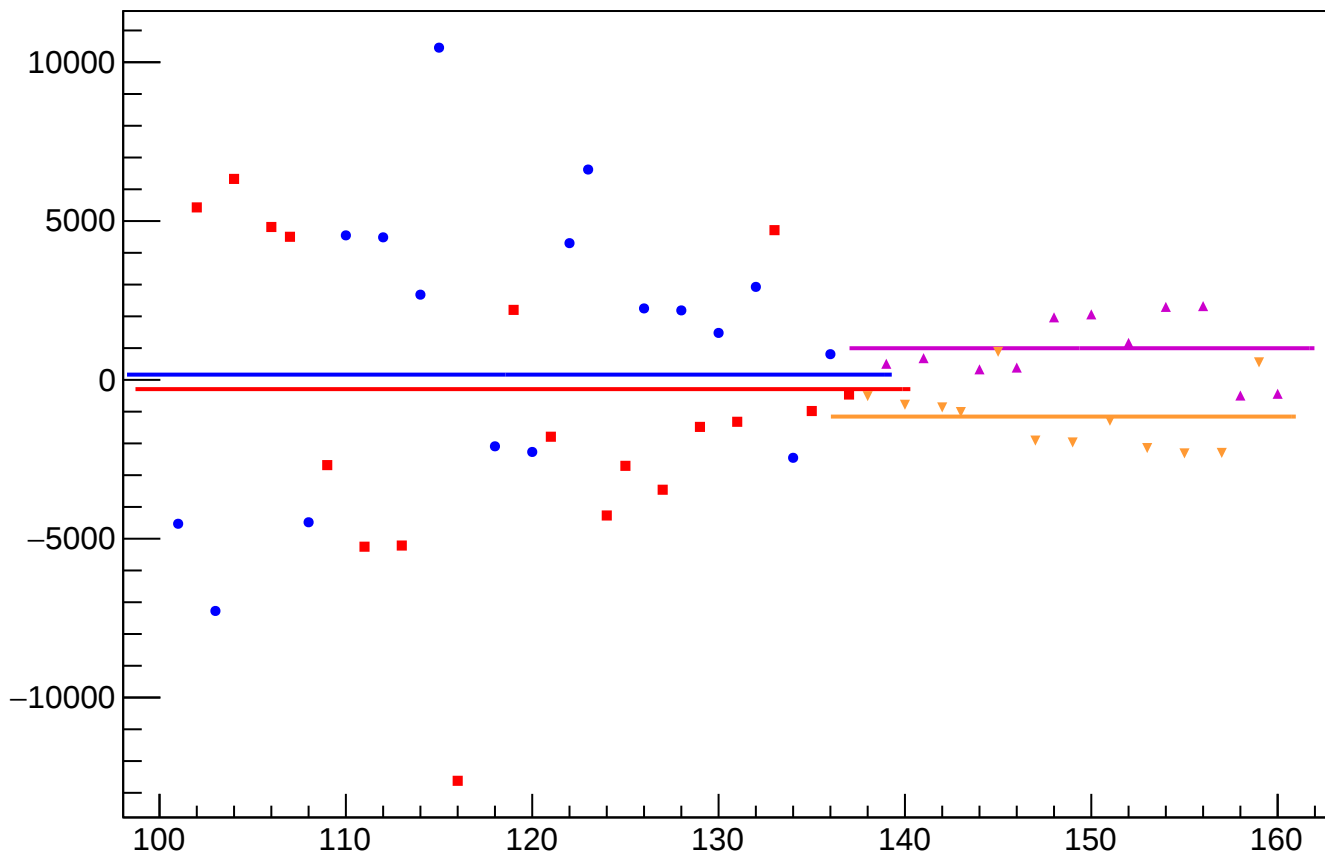
Right In: 747.700+/-0.000  $\chi^2/\text{NDF}$ : 65093293799436921921443577270989717504.0/16  
 Left Out: 289.811+/-0.000  $\chi^2/\text{NDF}$ : 10481549601194900606923730784744374272.0/11  
 Right Out: -624.223+/-0.000  $\chi^2/\text{NDF}$ : 296243096292052743688943276873819881472.0/17  
 Left In: -295.493+/-0.000  $\chi^2/\text{NDF}$ : 1716013314092655155362591865869172736.0/10  
 All: 18.557+/-0.000  $\chi^2/\text{NDF}$ : 1798098672103

dit\_sam4\_coil6\_Ndata\_mean vs Slug, Sign Corrected



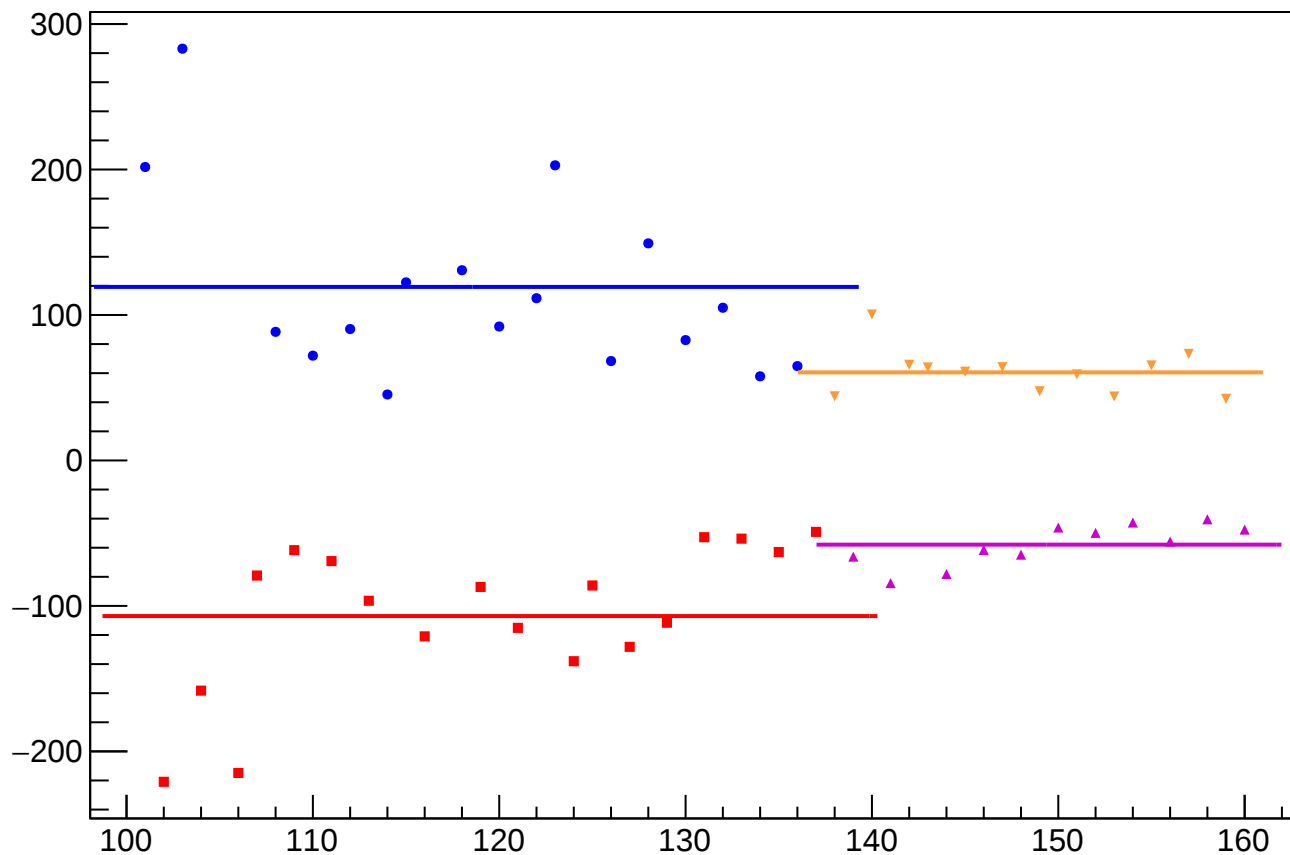
Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

# dit\_sam5\_coil6\_mean vs Slug, Sign Corrected



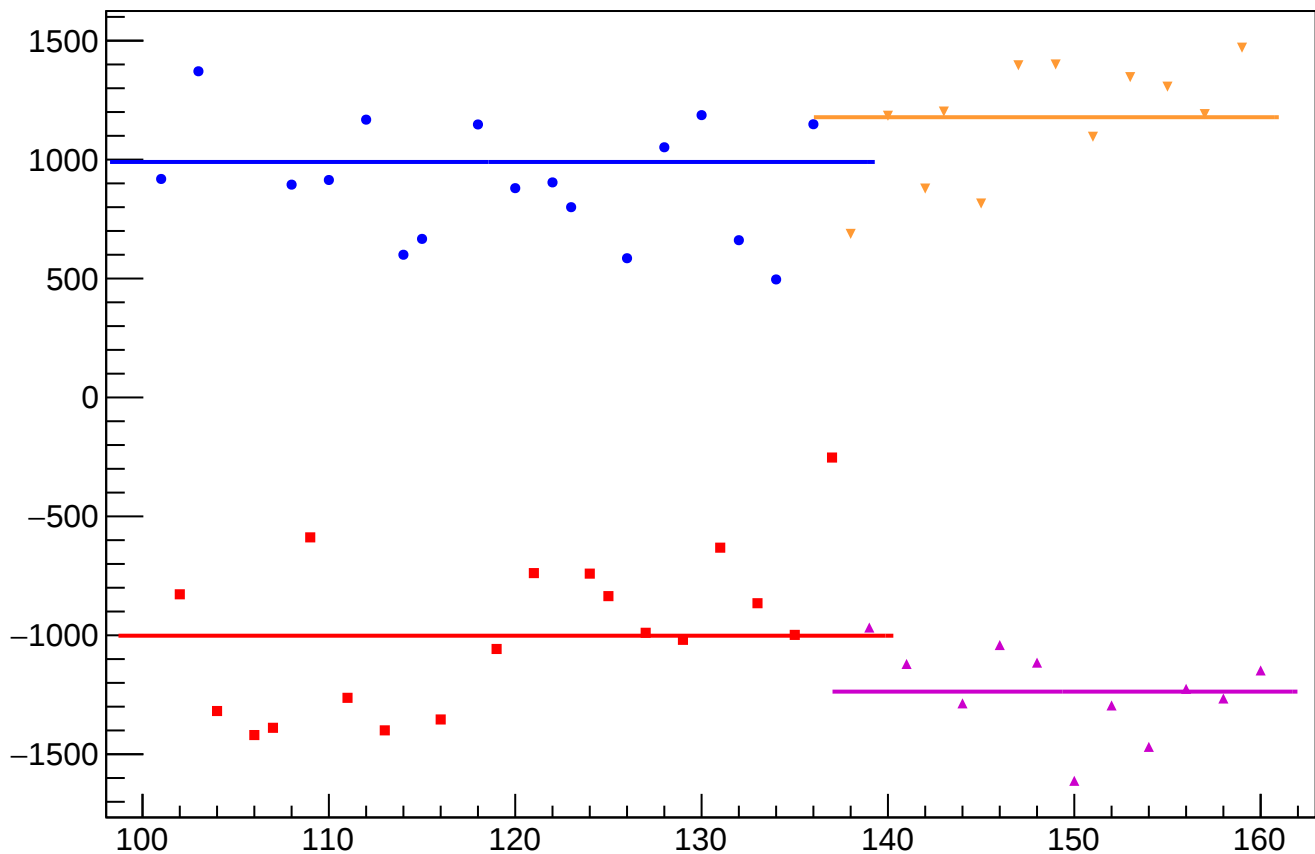
Left:  $-65.399 \pm 0.000$   $\chi^2/\text{NDF}: 4052242342768762$   
 Right In:  $165.547 \pm 0.000$   $\chi^2/\text{NDF}: 10658450336306933403777351351390508679168.0/16$   
 Right:  $-66.136 \pm 0.000$   $\chi^2/\text{NDF}: 254044320443821$   
 Left Out:  $-1155.357 \pm 0.000$   $\chi^2/\text{NDF}: 995504747952866911387640526565778915328.0/11$   
 In:  $642.067 \pm 0.000$   $\chi^2/\text{NDF}: 11857976732565089$   
 Right Out:  $-291.015 \pm 0.000$   $\chi^2/\text{NDF}: 14672571981967891714112032575724497928192.0/17$   
 Out:  $-774.812 \pm 0.000$   $\chi^2/\text{NDF}: 159670656453748$   
 Left In:  $996.521 \pm 0.000$   $\chi^2/\text{NDF}: 924719212965830410136097105357987381248.0/10$   
 All:  $-65.719 \pm 0.000$   $\chi^2/\text{NDF}: 294566748207$

dit\_sam5\_coil6\_err\_mean vs Slug, Sign Corrected



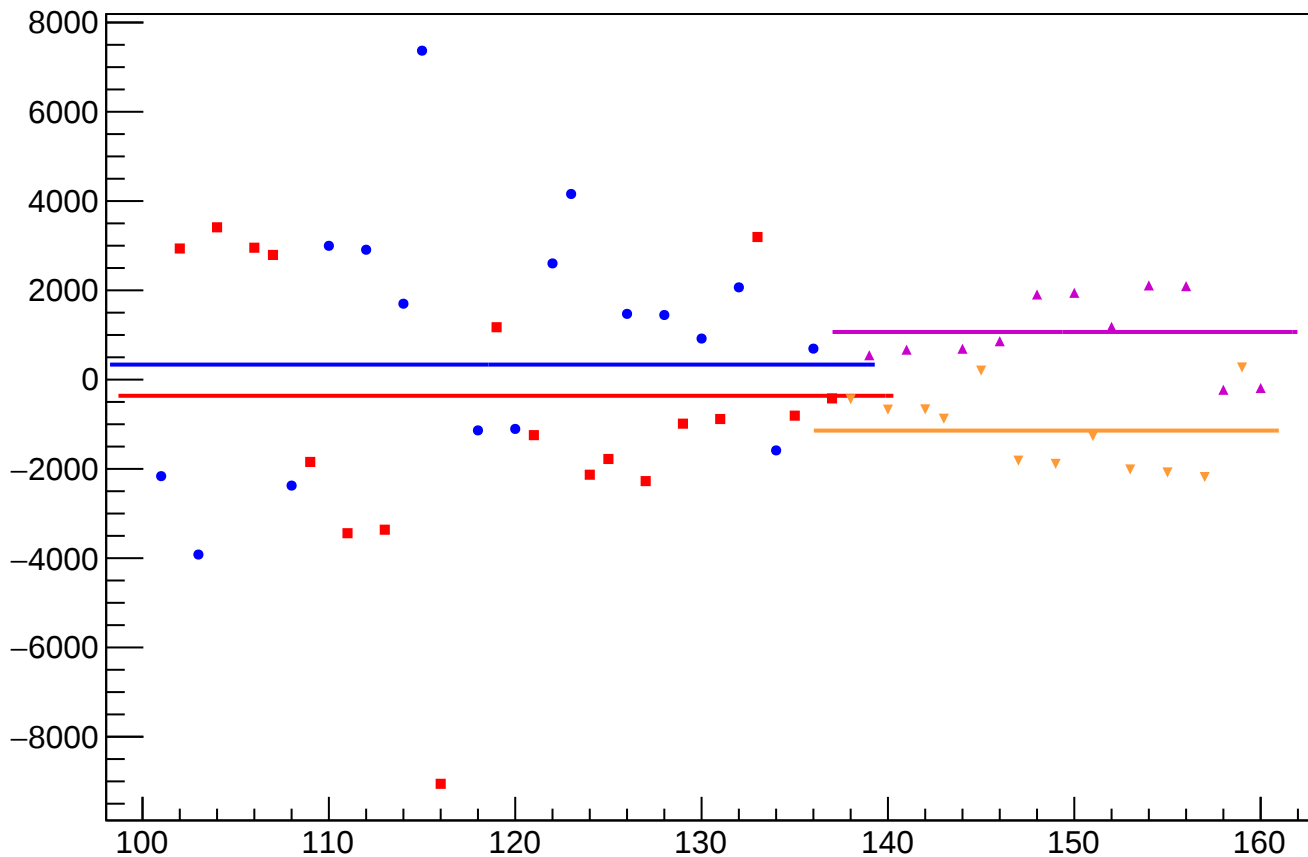
Right In: 119.288+/-0.000  $\chi^2/\text{NDF}$ : 2842654207411905514935251828991852544.0/16  
 Left Out: 60.571+/-0.000  $\chi^2/\text{NDF}$ : 231982084385304468307819992004427776.0/11  
 Right Out: -106.986+/-0.000  $\chi^2/\text{NDF}$ : 1915046958698396013008025410372370432.0/17  
 Left In: -57.892+/-0.000  $\chi^2/\text{NDF}$ : 178748203070353408993612338219188224.0/10  
 All: 2.257+/-0.000  $\chi^2/\text{NDF}$ : 29672950816930

dit\_sam5\_coil6\_Ndata\_mean vs Slug, Sign Corrected



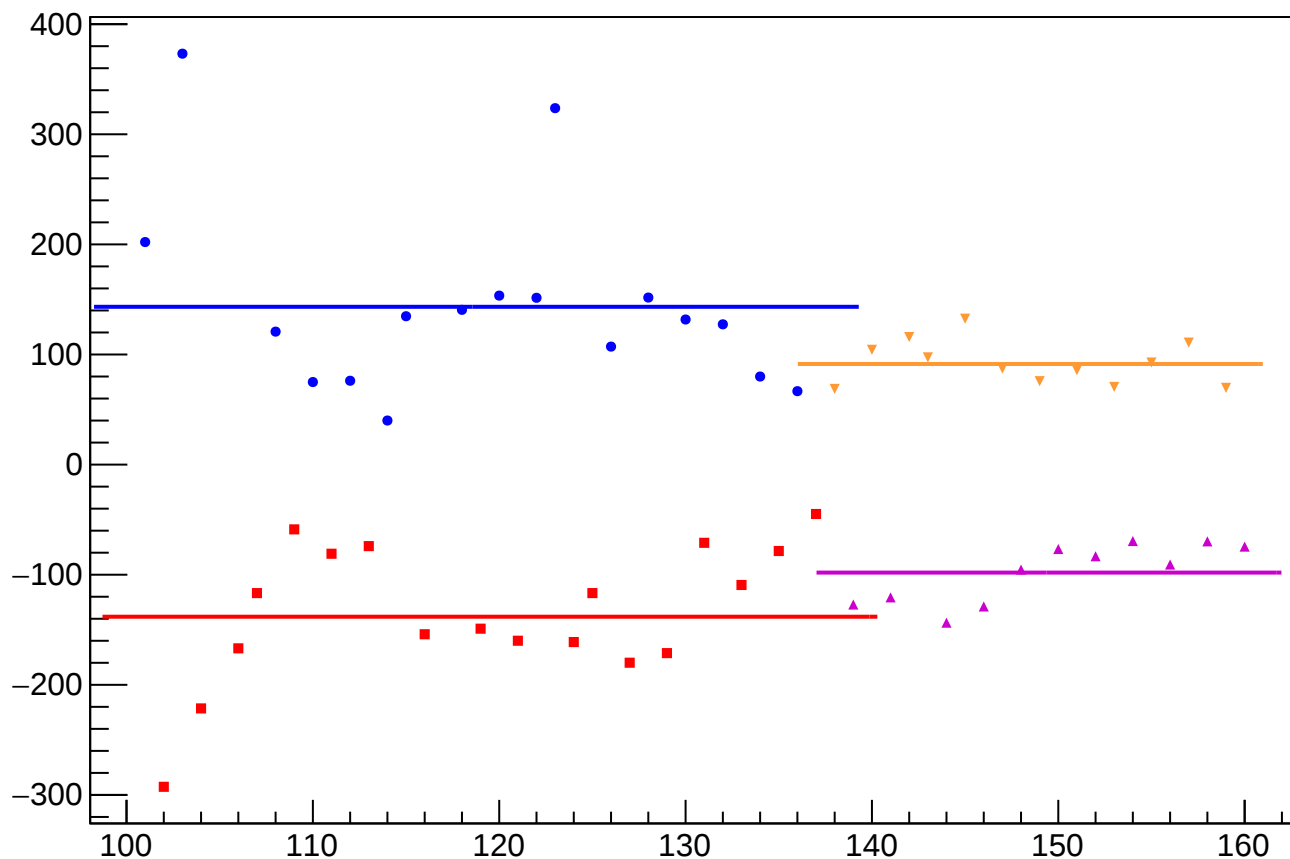
Right In: 990.104 $\pm$ 0.000  $\chi^2$ /NDF: 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253 $\pm$ 0.000  $\chi^2$ /NDF: 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684 $\pm$ 0.000  $\chi^2$ /NDF: 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792 $\pm$ 0.000  $\chi^2$ /NDF: 30308096320717107629965970940123676672.0/10  
 All: -34.441 $\pm$ 0.000  $\chi^2$ /NDF: 426372184117

dit\_sam6\_coil6\_mean vs Slug, Sign Corrected



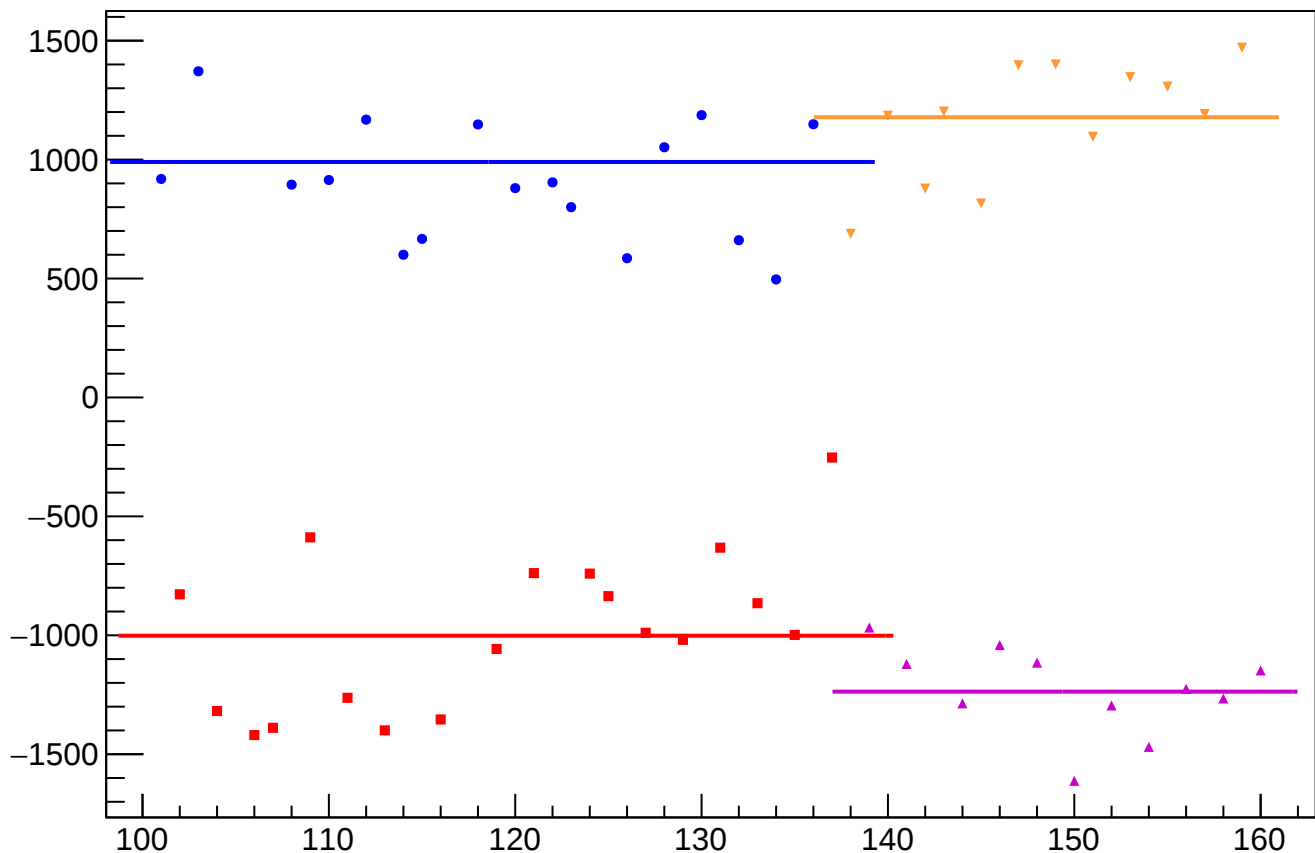
Right In: 336.537+/-0.000  $\chi^2/\text{NDF}$ : 3711385432707324073014239747985928880128.0/16  
 Left Out: -1141.700+/-0.000  $\chi^2/\text{NDF}$ : 670526328034965940264034289134346436608.0/11  
 Right Out: -362.052+/-0.000  $\chi^2/\text{NDF}$ : 5966784958004941474881704867040847724544.0/17  
 Left In: 1067.159+/-0.000  $\chi^2/\text{NDF}$ : 629450133544261438998185081673399402496.0/10  
 All: -20.750+/-0.000  $\chi^2/\text{NDF}$ : 133964602028

dit\_sam6\_coil6\_err\_mean vs Slug, Sign Corrected



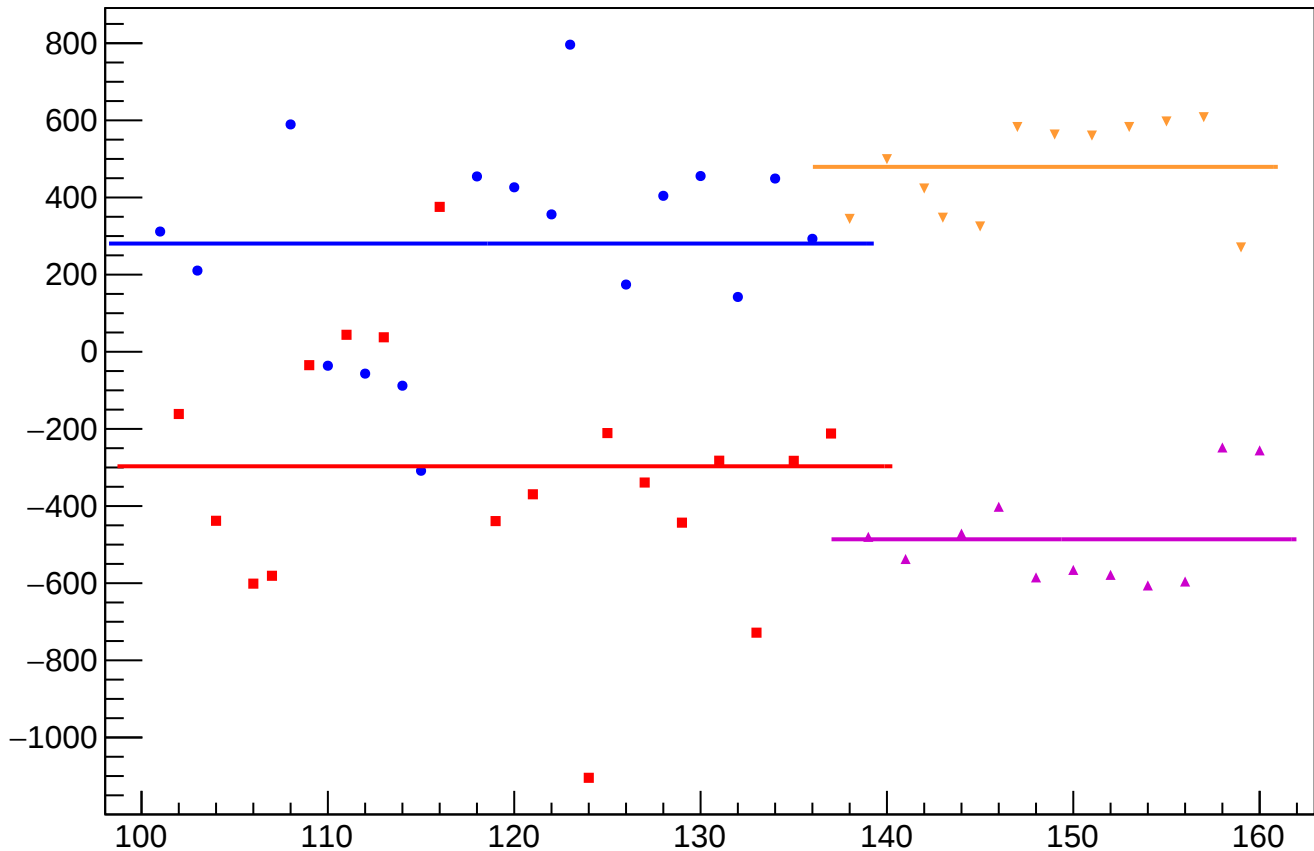
Left:  $-4.578 \pm 0.000$   $\chi^2/\text{NDF}: 17491553259507675$   
 Right In:  $143.327 \pm 0.000$   $\chi^2/\text{NDF}: 4671526487507242419296658853814337536.0/16$   
 Left Out:  $91.381 \pm 0.000$   $\chi^2/\text{NDF}: 342224682721014507534258785086341120.0/11$   
 Right Out:  $-138.133 \pm 0.000$   $\chi^2/\text{NDF}: 3152322250150098804756661412355375104.0/17$   
 Left In:  $-98.068 \pm 0.000$   $\chi^2/\text{NDF}: 624217570941141558165697948106620928.0/10$   
 All:  $-2.377 \pm 0.000$   $\chi^2/\text{NDF}: 5323496357717$

dit\_sam6\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

dit\_sam7\_coil6\_mean vs Slug, Sign Corrected



Right In: 280.587+/-0.000

$\chi^2/\text{NDF}$ : 26873653578381248944514799501999865856.0/16

Left Out: 479.418+/-0.000

$\chi^2/\text{NDF}$ : 13285124498180385816264889724787752960.0/11

Right Out: -296.905+/-0.000

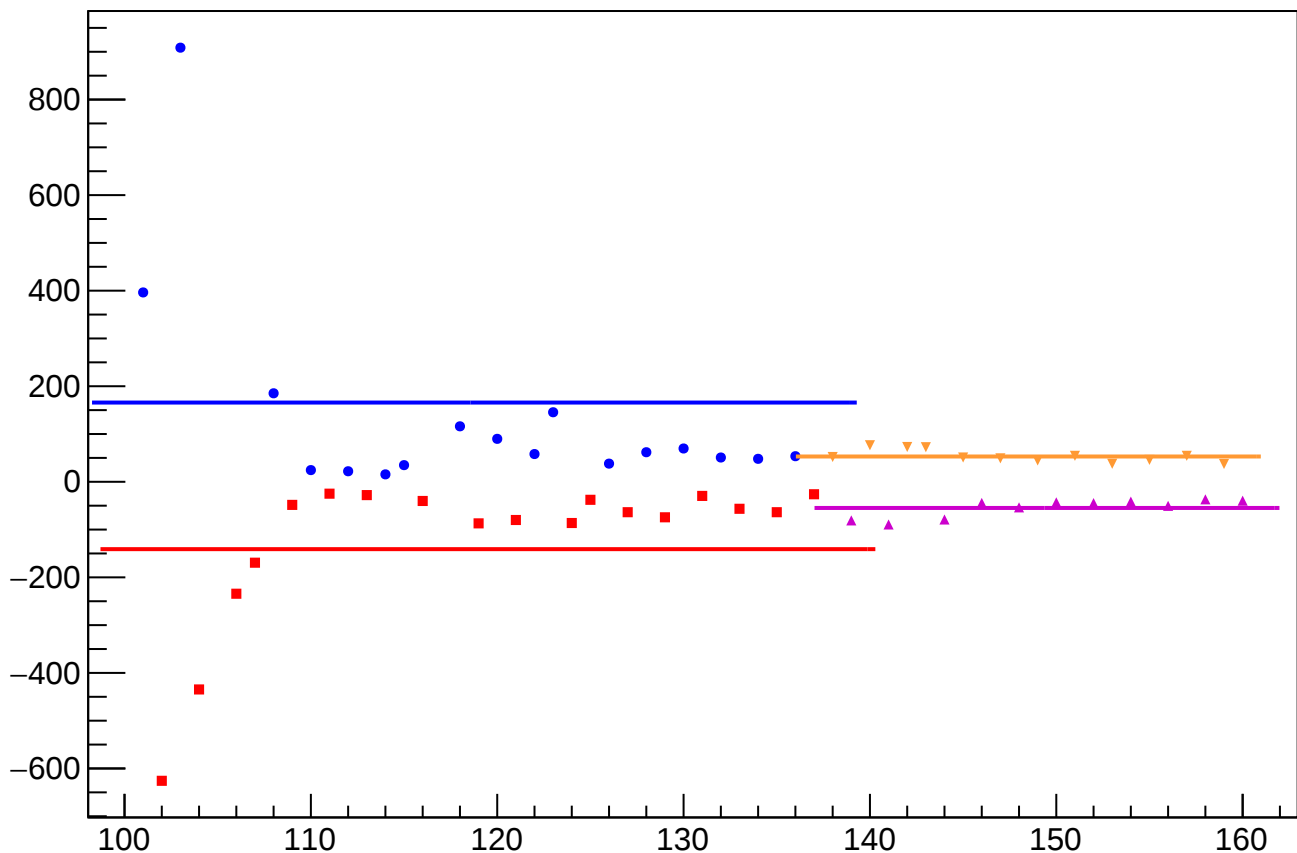
$\chi^2/\text{NDF}$ : 53152105752477344290303829793952497664.0/17

Left In: -486.206+/-0.000

$\chi^2/\text{NDF}$ : 14204620343976110093613729776425500672.0/10

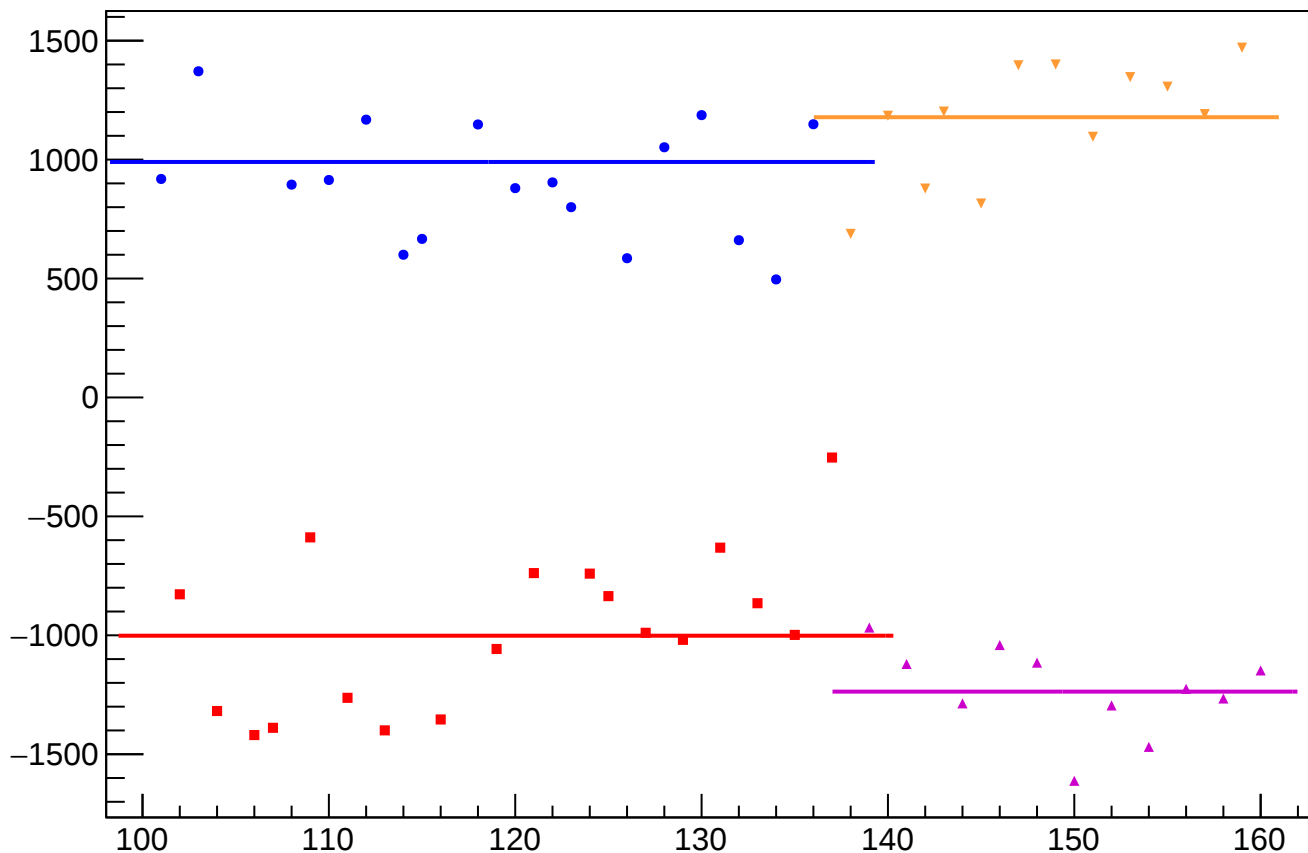
All: -10.889+/-0.000  $\chi^2/\text{NDF}$ : 654280499150

dit\_sam7\_coil6\_err\_mean vs Slug, Sign Corrected



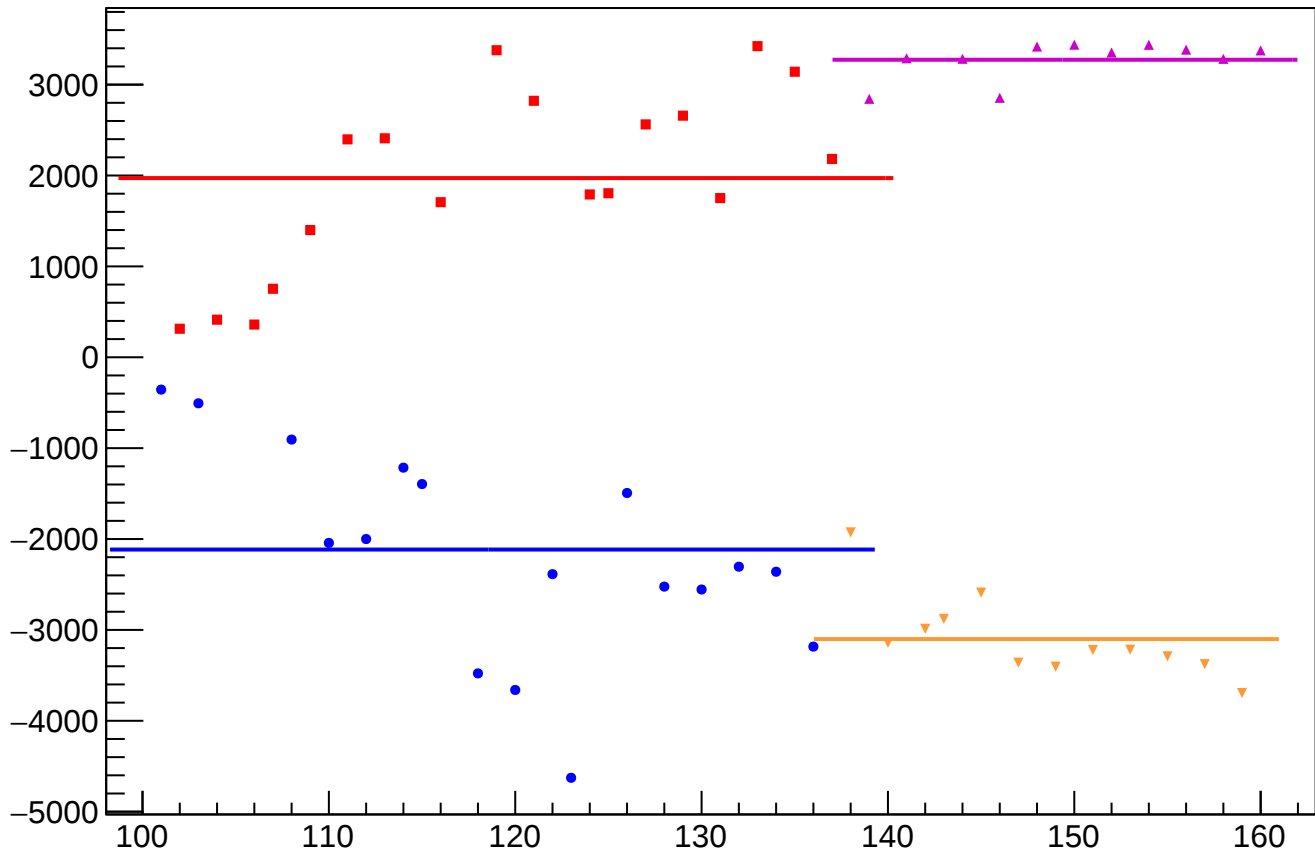
Left:  $-1.606 \pm 0.000$   $\chi^2/\text{NDF}: 57827567098124295$   
 Right In:  $165.841 \pm 0.000$   $\chi^2/\text{NDF}: 42388910284637758892134233675562745856.0/16$   
 Right:  $10.146 \pm 0.000$   $\chi^2/\text{NDF}: 9821617631078692$   
 Left Out:  $52.946 \pm 0.000$   $\chi^2/\text{NDF}: 140060109724135025714892303400697856.0/11$   
 In:  $39.341 \pm 0.000$   $\chi^2/\text{NDF}: 62057297470429168$   
 Right Out:  $-140.976 \pm 0.000$   $\chi^2/\text{NDF}: 22674964646016742017185923250652184576.0/17$   
 Out:  $-32.433 \pm 0.000$   $\chi^2/\text{NDF}: 3786506653081306$   
 Left In:  $-54.754 \pm 0.000$   $\chi^2/\text{NDF}: 302128520341219592884404395924520960.0/10$   
 All:  $3.487 \pm 0.000$   $\chi^2/\text{NDF}: 10410918738186$

dit\_sam7\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left: -45.003+/-0.000  $\chi^2/\text{NDF}$ : 2767859757374114  
 Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 In: -286.905+/-0.000  $\chi^2/\text{NDF}$ : 2040776092386221  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Out: 218.490+/-0.000  $\chi^2/\text{NDF}$ : 2015349576700865  
 Left In: -1236.792+/-0.000  $\chi^2/\text{NDF}$ : 30308096320717107629965970940123676672.0/10  
 All: -34.441+/-0.000  $\chi^2/\text{NDF}$ : 426372184117

dit\_sam8\_coil6\_mean vs Slug, Sign Corrected



Right In: -2115.686+/-0.000

Left Out: -3100.691+/-0.000

Right Out: 1971.716+/-0.000

Left In: 3273.761+/-0.000

$\chi^2/\text{NDF}$ : 754451931643030128758883529777223827456.0/16

$\chi^2/\text{NDF}$ : 183916401222864919809075393490919096320.0/11

$\chi^2/\text{NDF}$ : 778865201263461024769541360998730956800.0/17

$\chi^2/\text{NDF}$ : 38674829040753317782722595133075750912.0/10

Left: 128.062+/-0.000  $\chi^2/\text{NDF}$ : 1893120264255816

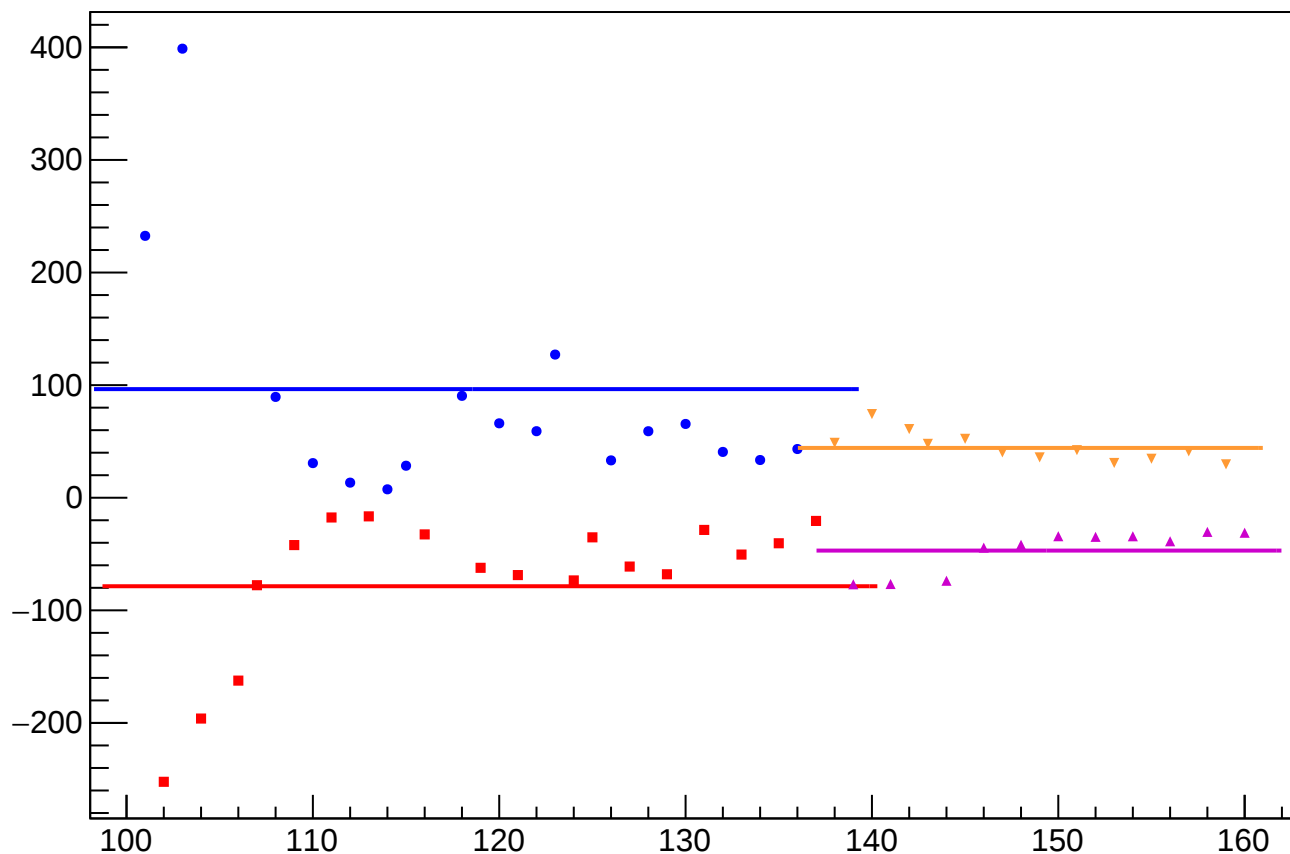
Right: -41.525+/-0.000  $\chi^2/\text{NDF}$ : 741699927533891

In: 974.882+/-0.000  $\chi^2/\text{NDF}$ : 12352701801600156

Out: -867.457+/-0.000  $\chi^2/\text{NDF}$ : 112598146486417

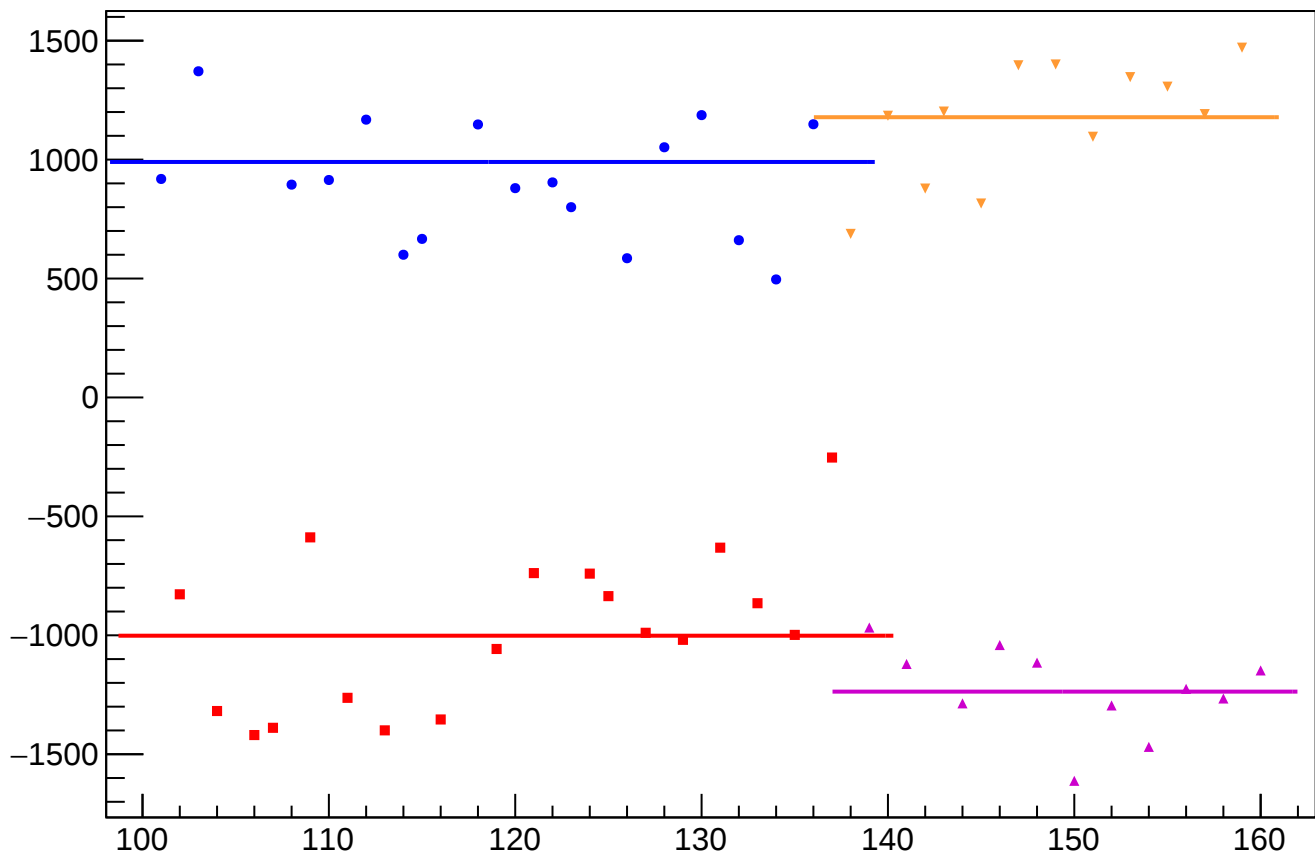
All: 54.562+/-0.000  $\chi^2/\text{NDF}$ : 2637116183170

dit\_sam8\_coil6\_err\_mean vs Slug, Sign Corrected



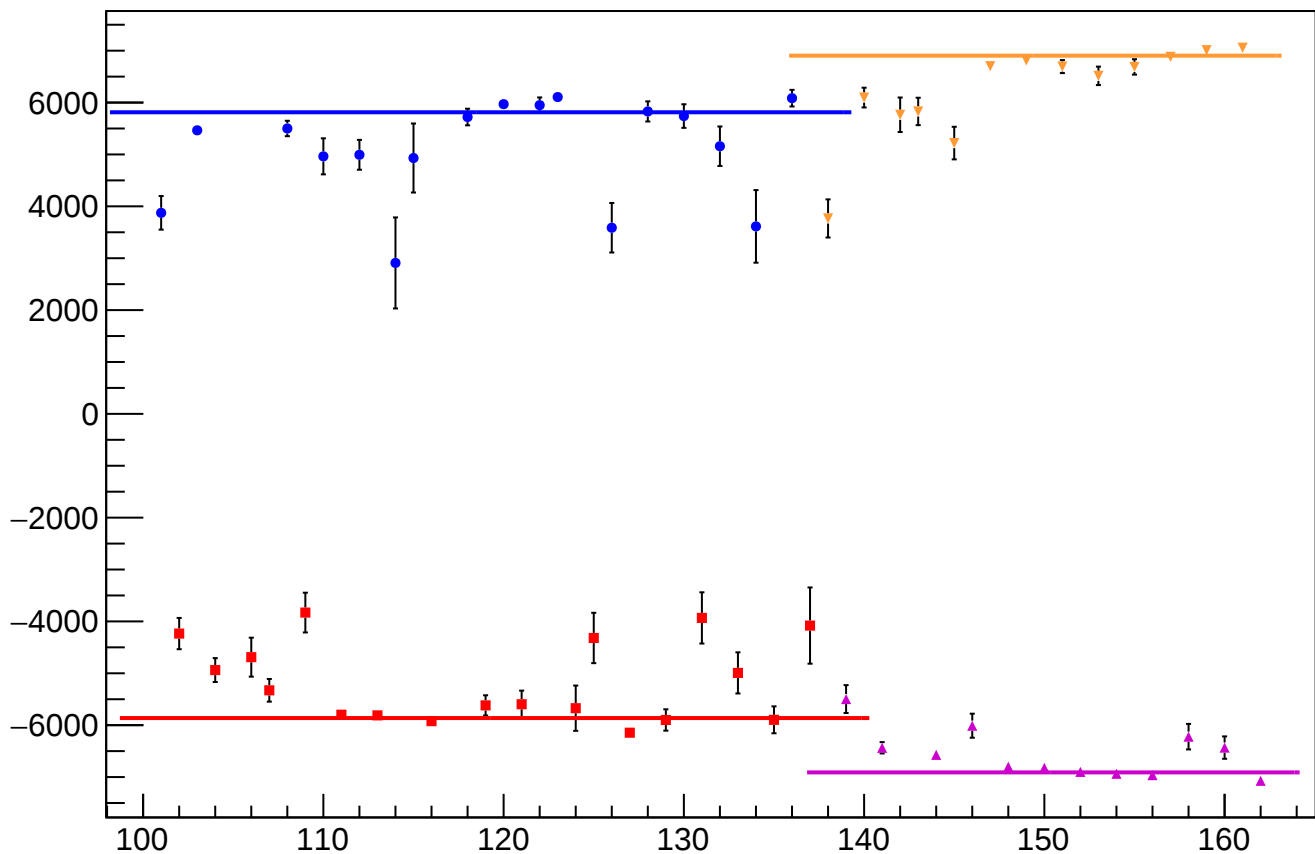
Right In: 96.465+/-0.000  $\chi^2/\text{NDF}$ : 7977727256930133620372701565161570304.0/16  
 Left Out: 44.236+/-0.000  $\chi^2/\text{NDF}$ : 142258955441054075250551696151019520.0/11  
 Right Out: -78.600+/-0.000  $\chi^2/\text{NDF}$ : 3499001556563234508710770672385654784.0/17  
 Left In: -46.934+/-0.000  $\chi^2/\text{NDF}$ : 304947612143078258069151469537329152.0/10  
 All: 2.205+/-0.000  $\chi^2/\text{NDF}$ : 26617277568186

dit\_sam8\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left:  $-45.003 \pm 0.000$   $\chi^2/\text{NDF}: 2767859757374114$   
 Right In:  $990.104 \pm 0.000$   $\chi^2/\text{NDF}: 36894248833595574425684746704003268608.0/16$   
 Right:  $-20.633 \pm 0.000$   $\chi^2/\text{NDF}: 149538797073234$   
 Left Out:  $1178.253 \pm 0.000$   $\chi^2/\text{NDF}: 52167705532463382200265414592767721472.0/11$   
 In:  $-286.905 \pm 0.000$   $\chi^2/\text{NDF}: 2040776092386221$   
 Right Out:  $-1001.684 \pm 0.000$   $\chi^2/\text{NDF}: 61351571695254109773751672489010790400.0/17$   
 Out:  $218.490 \pm 0.000$   $\chi^2/\text{NDF}: 2015349576700865$   
 Left In:  $-1236.792 \pm 0.000$   $\chi^2/\text{NDF}: 30308096320717107629965970940123676672.0/10$   
 All:  $-34.441 \pm 0.000$   $\chi^2/\text{NDF}: 426372184117$

# dit\_run\_mean vs Slug, Sign Corrected



Right In: 5812.740 $\pm$ 0.171  $\chi^2$ /NDF: 2217854.6/16

Left Out: 6904.016 $\pm$ 0.231  $\chi^2$ /NDF:196189.6/12

Right Out: -5862.788 $\pm$ 0.139  $\chi^2$ /NDF: 199291.9/17

Left In: -6910.138 $\pm$ 0.157  $\chi^2$ /NDF:364935.4/11

Left: -2532.603 $\pm$ 0.130  $\chi^2$ /NDF: 2438474796.3/24

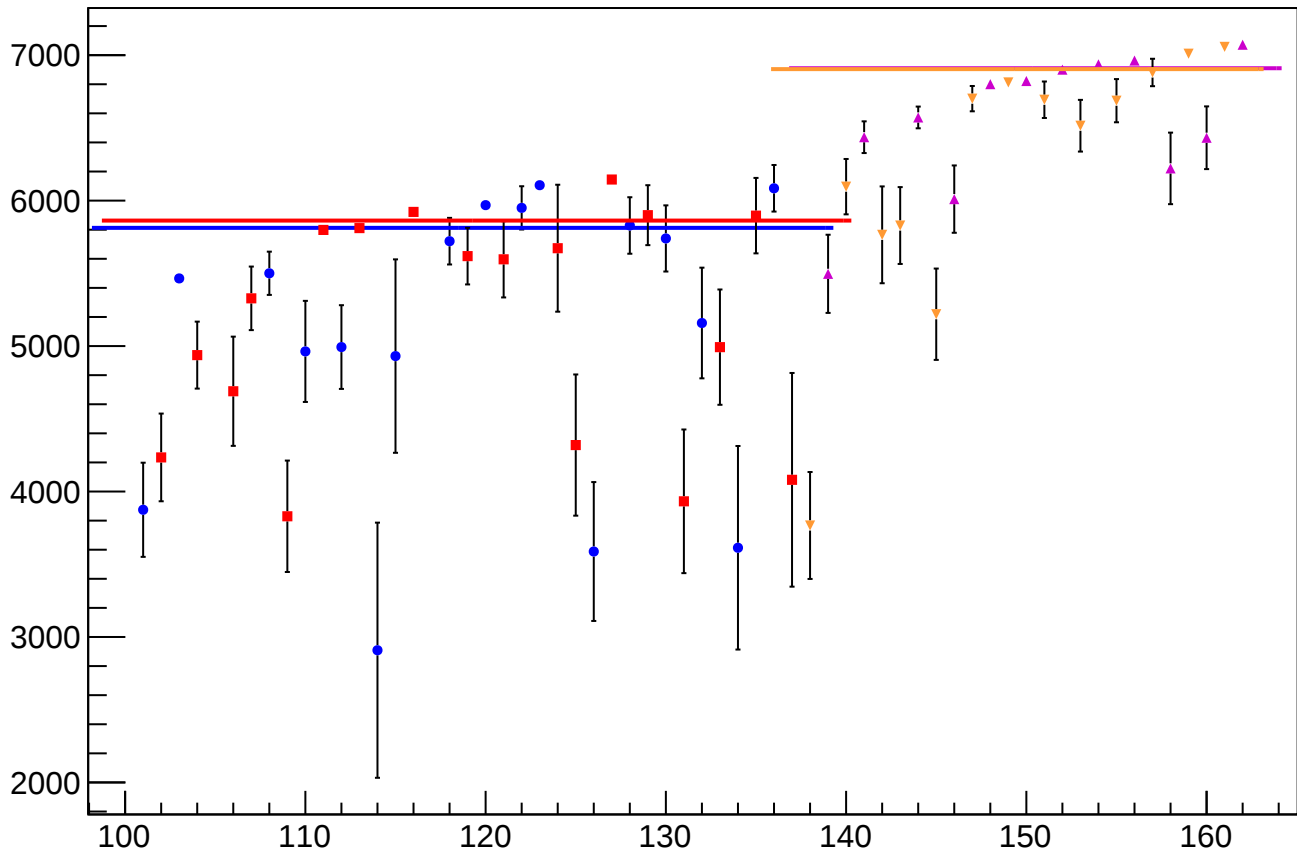
Right: -1193.446 $\pm$ 0.108  $\chi^2$ /NDF: 2813995894.0/3

In: -1054.968 $\pm$ 0.116  $\chi^2$ /NDF:3005817480.9/28

Out: -2465.245 $\pm$ 0.119  $\chi^2$ /NDF:2237391140.5/30

All: -1738.646 $\pm$ 0.083  $\chi^2$ /NDF: 5315218808

# dit\_run\_rms vs Slug, Sign Corrected



Right In: 5812.740+/-0.171  $\chi^2/\text{NDF}$ : 2217854.6/16

Left Out: 6904.016+/-0.231  $\chi^2/\text{NDF}$ : 196189.6/12

Right Out: 5862.788+/-0.139  $\chi^2/\text{NDF}$ : 199291.9/17

Left In: 6910.138+/-0.157  $\chi^2/\text{NDF}$ : 364935.4/11

Left: 6908.198+/-0.130  $\chi^2/\text{NDF}$ : 561603.8/24

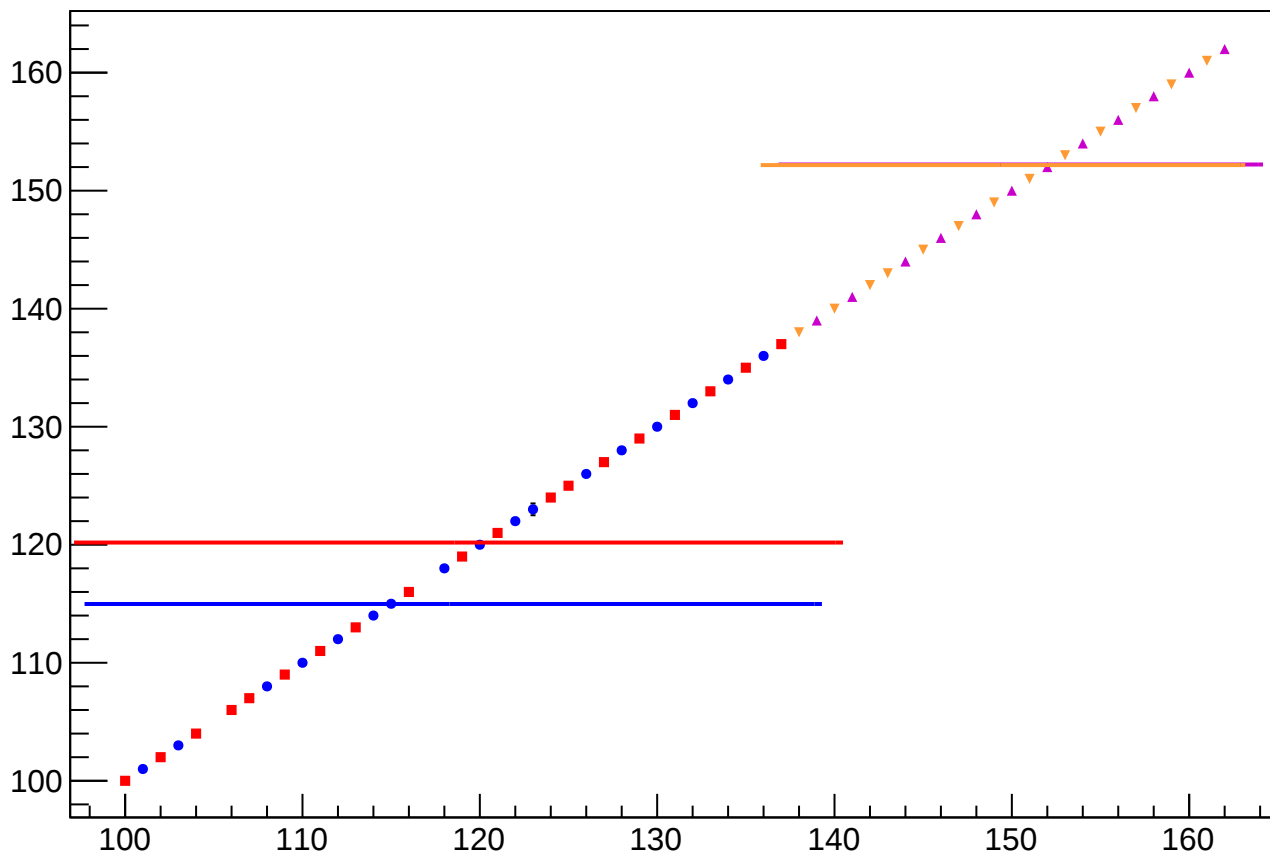
Right: 5842.773+/-0.108  $\chi^2/\text{NDF}$ : 2468807.9/34

In: 6405.107+/-0.116  $\chi^2/\text{NDF}$ : 24926055.2/28

Out: 6139.883+/-0.119  $\chi^2/\text{NDF}$ : 15275120.1/30

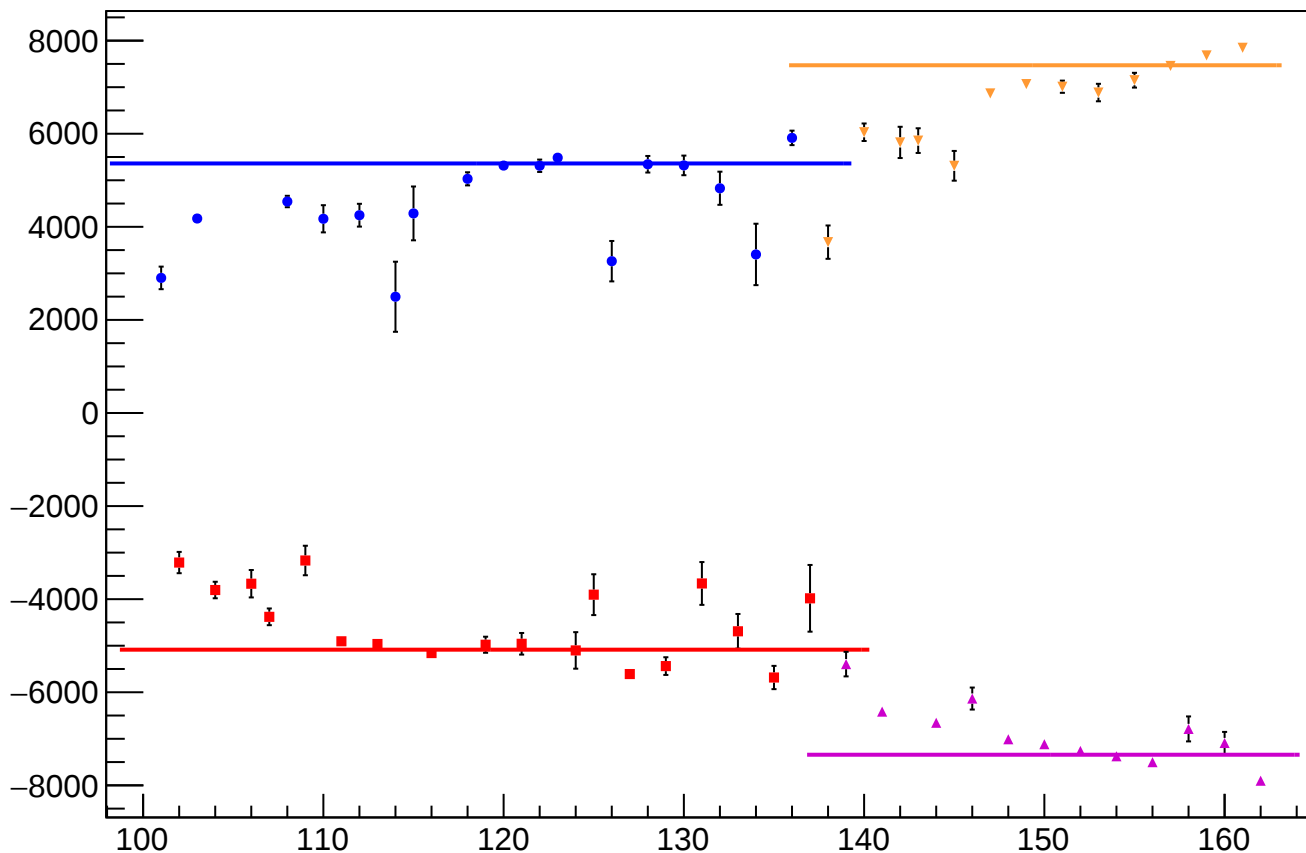
All: 6276.531+/-0.083  $\chi^2/\text{NDF}$ : 42748067.3/5

# dit\_slug\_slope vs Slug, Sign Corrected



Right In: 114.980+/-0.000  $\chi^2/\text{NDF}$ : 112344936246012934714934440230912.0/16  
 Left Out: 152.168+/-0.000  $\chi^2/\text{NDF}$ : 29603752844836647242838730342400.0/12  
 Right Out: 120.186+/-0.000  $\chi^2/\text{NDF}$ : 52233253644261695528198041763840.0/18  
 Left In: 152.217+/-0.000  $\chi^2/\text{NDF}$ : 13131625643598975517651864911872.0/11  
 All: 128.067+/-0.000  $\chi^2/\text{NDF}$ : 118082393973

# dit\_cyclenum\_mean vs Slug, Sign Corrected



Right In: 5361.298 $\pm$ 0.441  $\chi^2/\text{NDF}$ : 607948.2/16

Left Out: 7471.056 $\pm$ 0.934  $\chi^2/\text{NDF}$ : 129329.9/12

Right Out: -5085.163 $\pm$ 0.644  $\chi^2/\text{NDF}$ : 80603.0/17

Left In: -7342.371 $\pm$ 0.709  $\chi^2/\text{NDF}$ : 154110.8/11

Left: -1926.145 $\pm$ 0.565  $\chi^2/\text{NDF}$ : 159840873.4/24

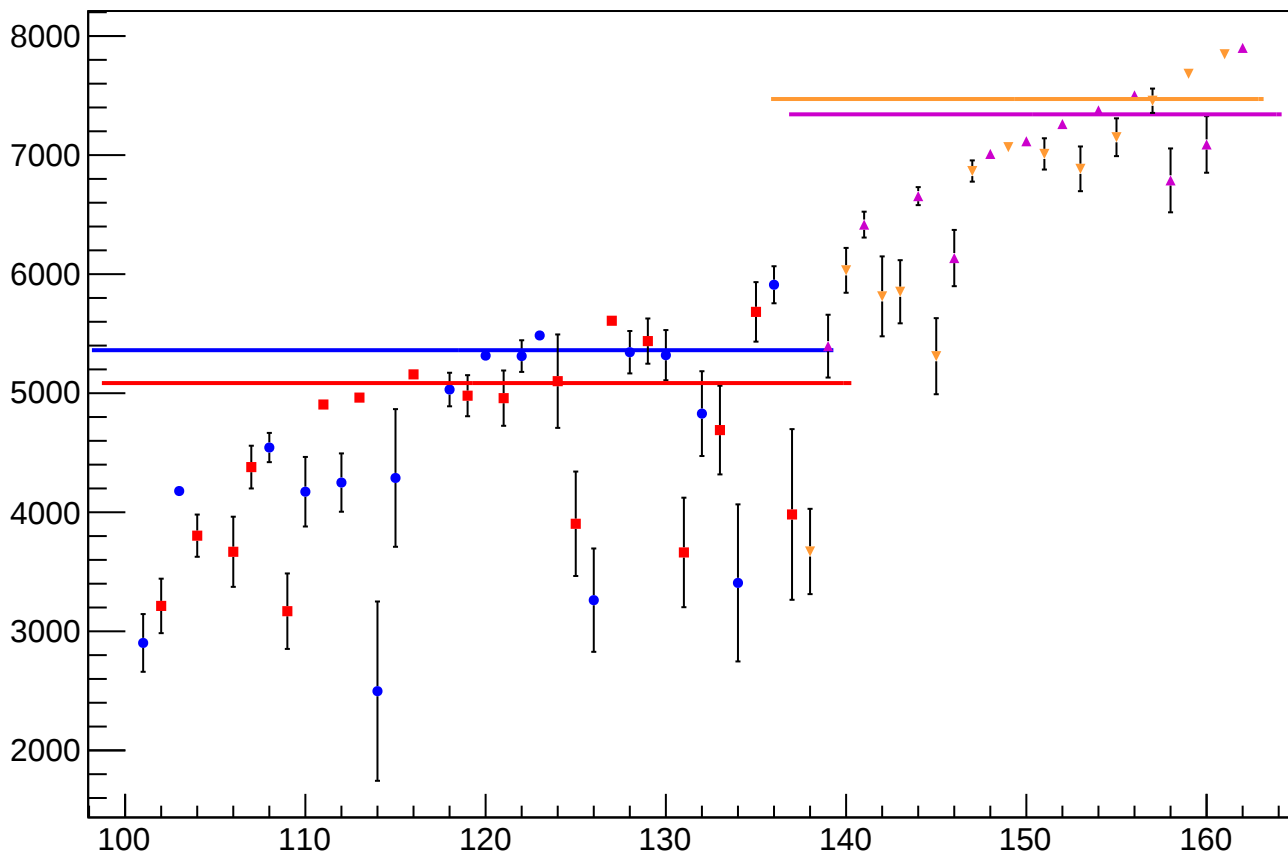
Right: 2021.502 $\pm$ 0.364  $\chi^2/\text{NDF}$ : 179839669.6/34

In: 1814.823 $\pm$ 0.375  $\chi^2/\text{NDF}$ : 232105050.1/28

Out: -1041.730 $\pm$ 0.530  $\chi^2/\text{NDF}$ : 122726155.4/30

All: 863.071 $\pm$ 0.306  $\chi^2/\text{NDF}$ : 374198265.8/5

# dit\_cyclenum\_rms vs Slug, Sign Corrected



Right In: 5361.298 $\pm$ 0.441  $\chi^2$ /NDF: 607948.2/16

Left Out: 7471.056 $\pm$ 0.934  $\chi^2$ /NDF:129329.9/12

Right Out: 5085.163 $\pm$ 0.644  $\chi^2$ /NDF: 80603.0/17

Left In: 7342.371 $\pm$ 0.709  $\chi^2$ /NDF:154110.8/11

Left: 7389.422 $\pm$ 0.565  $\chi^2$ /NDF: 295481.7/24

Right: 5273.016 $\pm$ 0.364  $\chi^2$ /NDF: 813728.5/34

In: 5914.353 $\pm$ 0.375  $\chi^2$ /NDF:6388045.9/28

Out: 5853.483 $\pm$ 0.530  $\chi^2$ /NDF:4633555.1/30

All: 5894.072 $\pm$ 0.306  $\chi^2$ /NDF: 11030394.9/5

# dit\_scandata1\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_scandata1\_rms vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_scandata2\_mean vs Slug, Sign Corrected



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

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

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

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

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

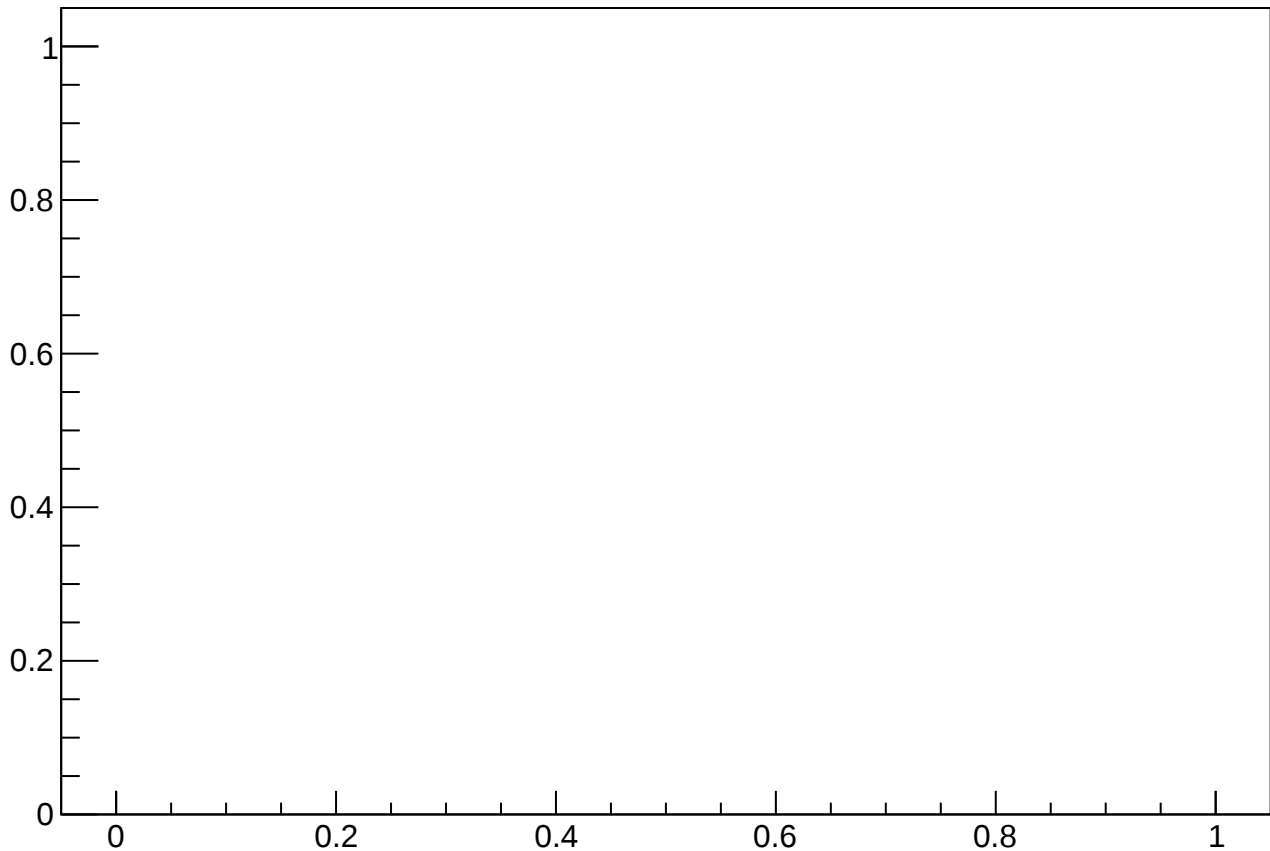
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_scandata2\_rms vs Slug, Sign Corrected



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

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

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

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

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

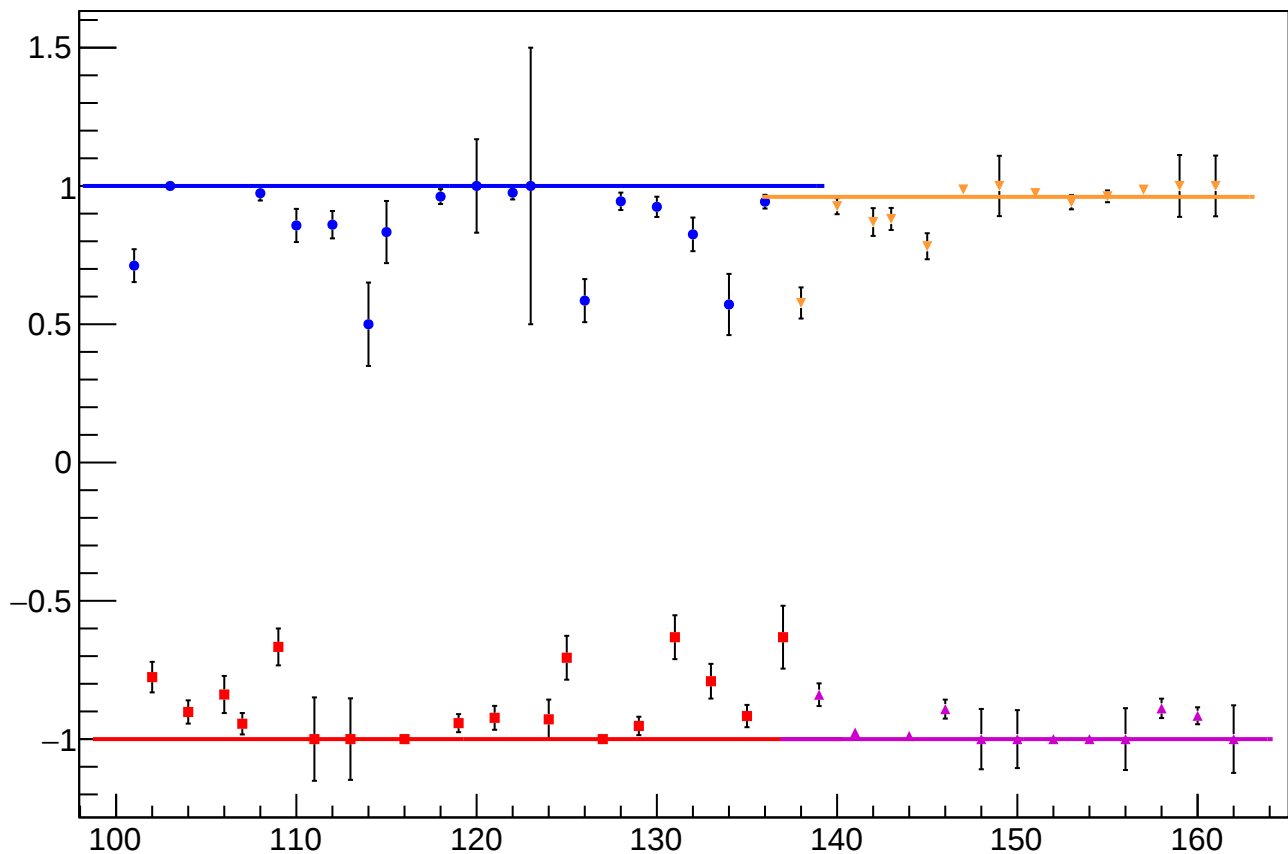
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_flag\_mean vs Slug, Sign Corrected



Right In: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 118.6/16

Left Out: 0.961+/-0.007  $\chi^2/\text{NDF}$ : 79.0/12

Right Out: -1.000+/-0.000  $\chi^2/\text{NDF}$ : 192.3/17

Left In: -1.000+/-0.000  $\chi^2/\text{NDF}$ : 389.8/11

Left: -1.000+/-0.000  $\chi^2/\text{NDF}$ : 83125.1/24

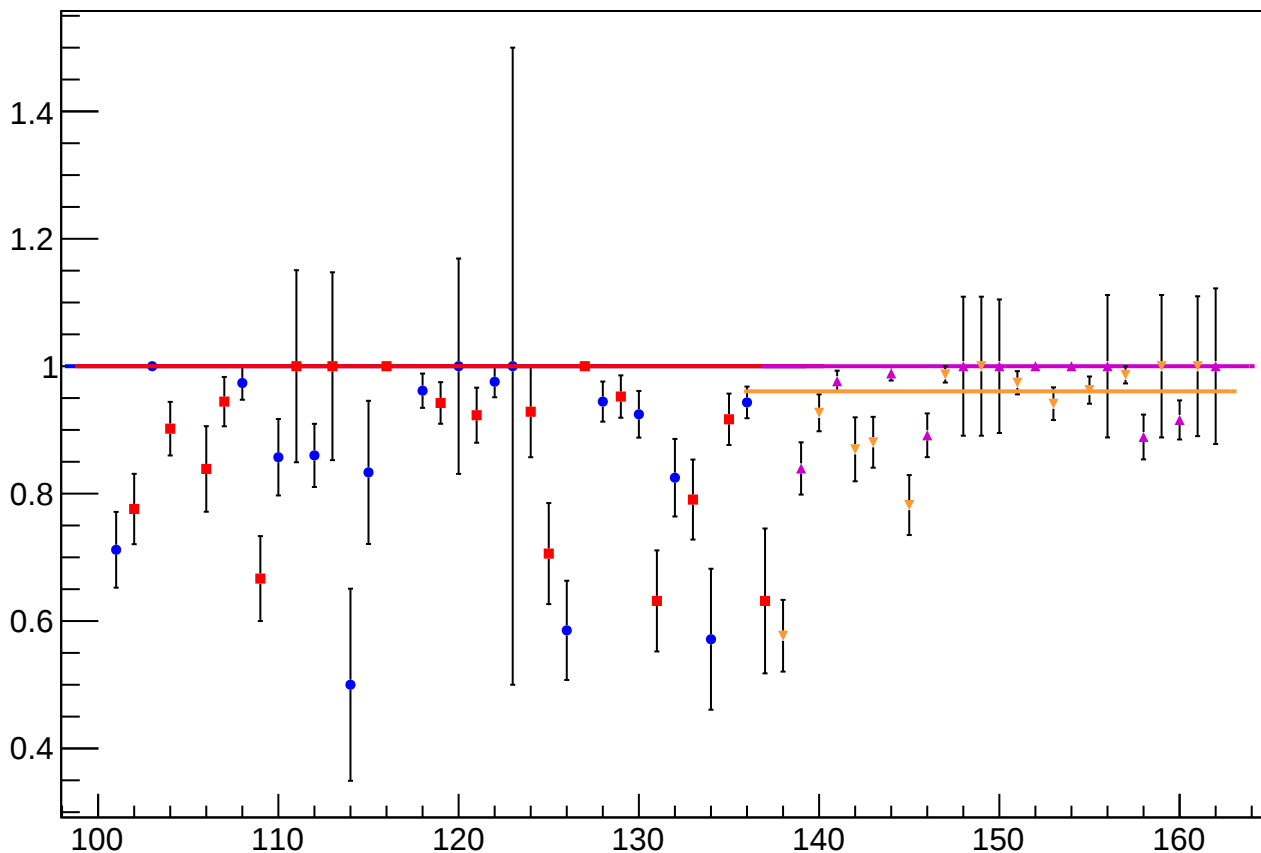
Right: -0.072+/-0.000  $\chi^2/\text{NDF}$ : 2522158199033292

In: -0.500+/-0.000  $\chi^2/\text{NDF}$ : 352913927103539123

Out: -1.000+/-0.000  $\chi^2/\text{NDF}$ : 82927.5/30

All: -0.612+/-0.000  $\chi^2/\text{NDF}$ : 3792742761737

# dit\_flag\_rms vs Slug, Sign Corrected



Right In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 118.6/16$

Left Out:  $0.961 \pm 0.007$   $\chi^2/\text{NDF}: 79.0/12$

Right Out:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 192.3/17$

Left In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 389.8/11$

Left:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 502.2/24$

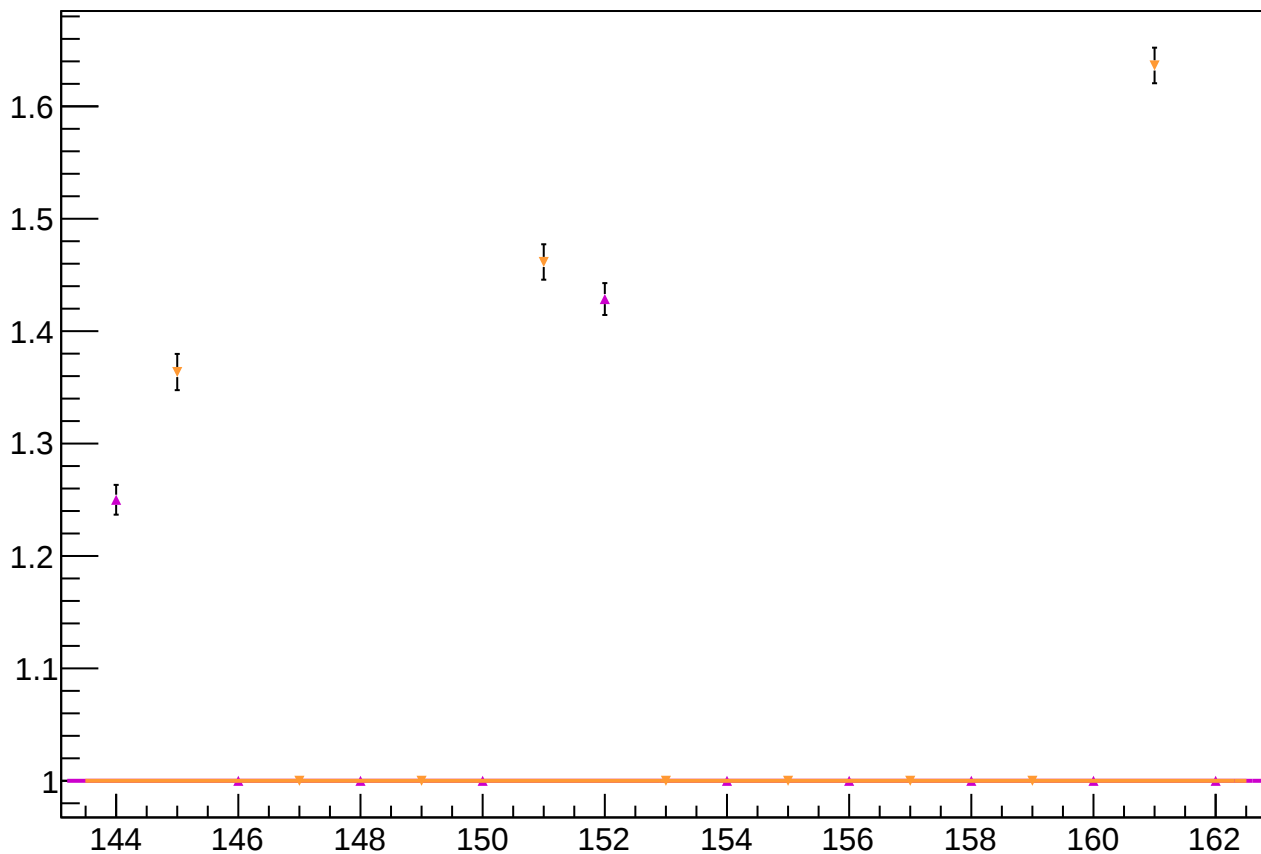
Right:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 243.9/34$

In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 508.4/28$

Out:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 304.7/30$

All:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 701.1/59$

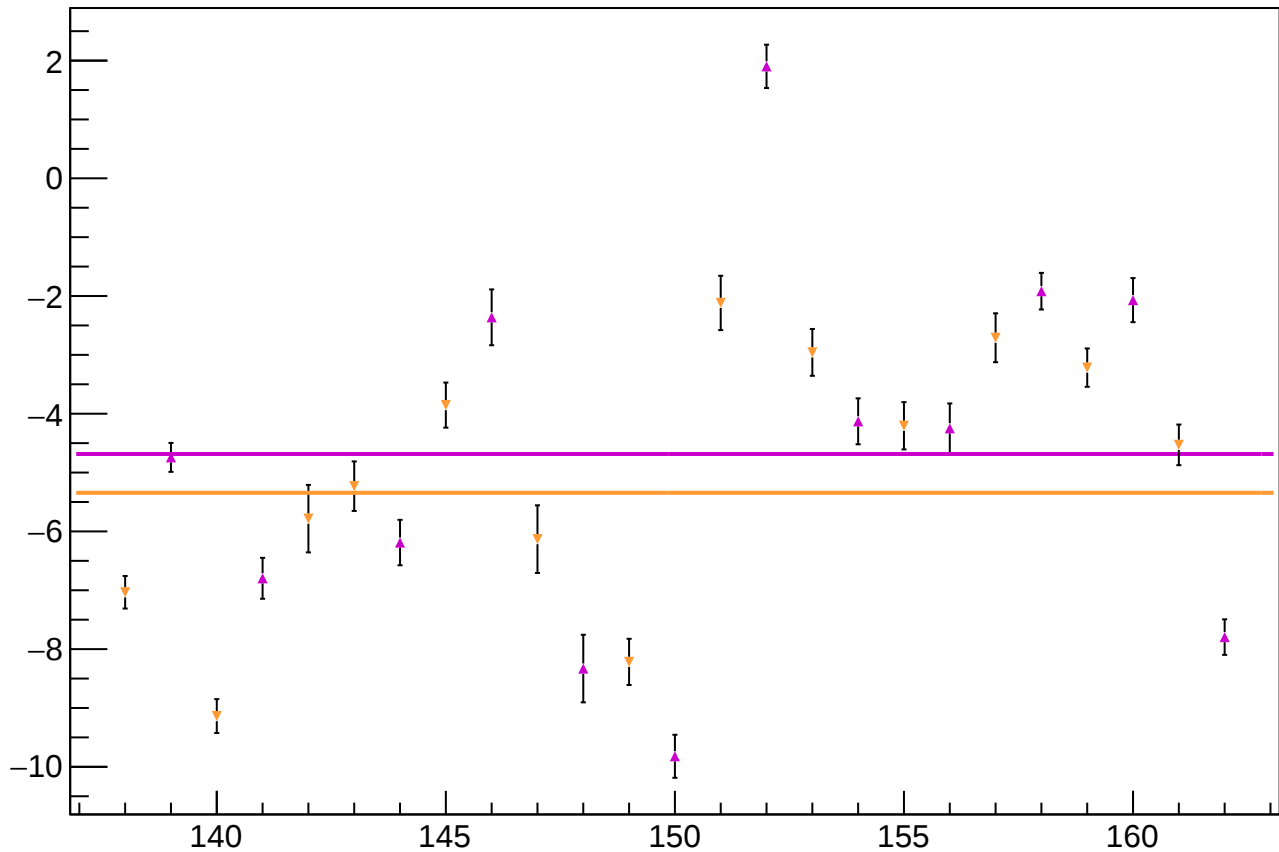
# dit\_segment\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 4278.5/8  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 1930.5/9

Left: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 5401.6/18  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 1930.5/9  
Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 4278.5/8  
All: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 5401.6/18

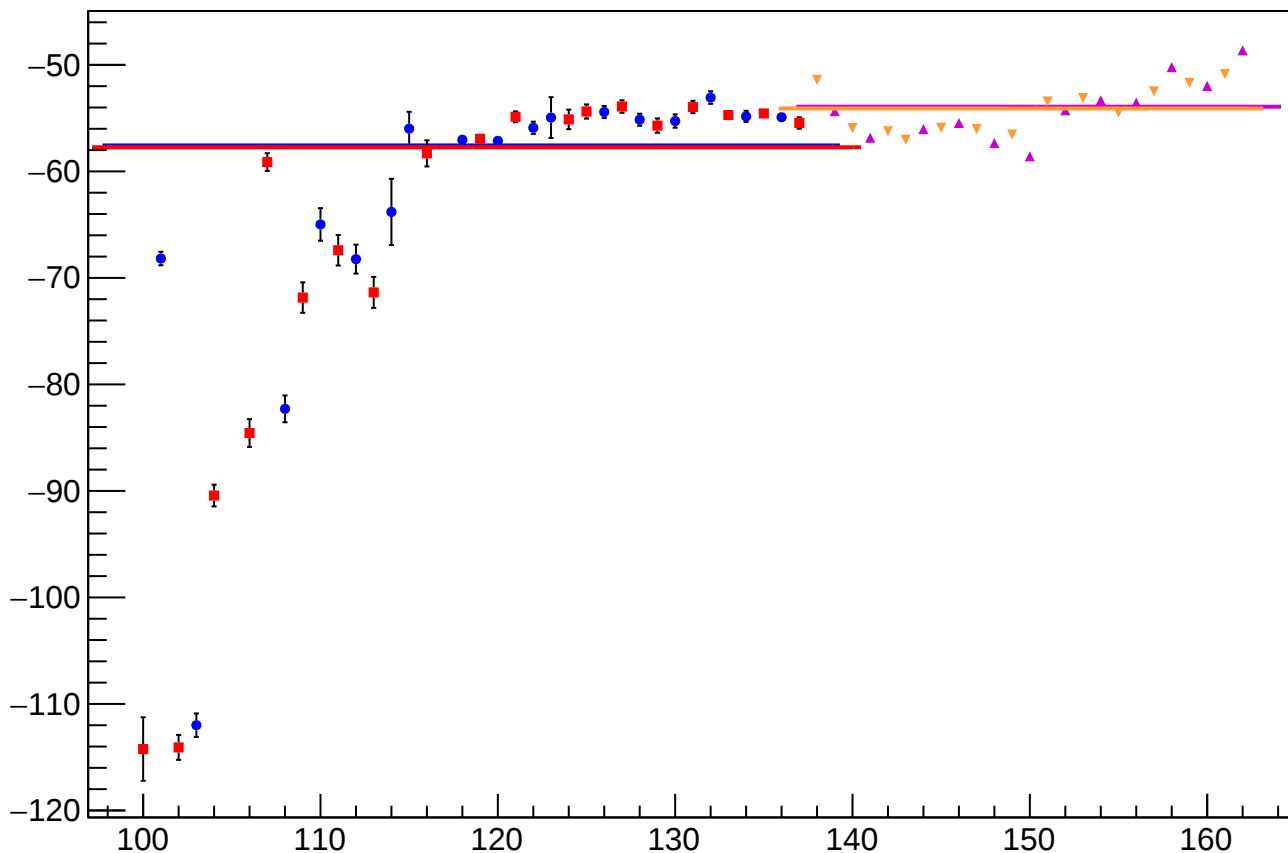
reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -5.344+/-0.105  $\chi^2/\text{NDF}$ :463.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.684+/-0.103  $\chi^2/\text{NDF}$ :870.7/11

Left: -5.008+/-0.073  $\chi^2/\text{NDF}$ : 1354.1/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.684+/-0.103  $\chi^2/\text{NDF}$ :870.7/11  
 Out: -5.344+/-0.105  $\chi^2/\text{NDF}$ :463.2/12  
 All: -5.008+/-0.073  $\chi^2/\text{NDF}$ : 1354.1/24

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -57.563 $\pm$ 0.141  $\chi^2$ /NDF: 3455.9/16

Left Out: -54.091 $\pm$ 0.077  $\chi^2$ /NDF: 772.7/12

Right Out: -57.736 $\pm$ 0.143  $\chi^2$ /NDF: 4698.4/18

Left In: -53.926 $\pm$ 0.078  $\chi^2$ /NDF: 1544.3/11

Left: -54.010 $\pm$ 0.055  $\chi^2$ /NDF: 2319.3/24

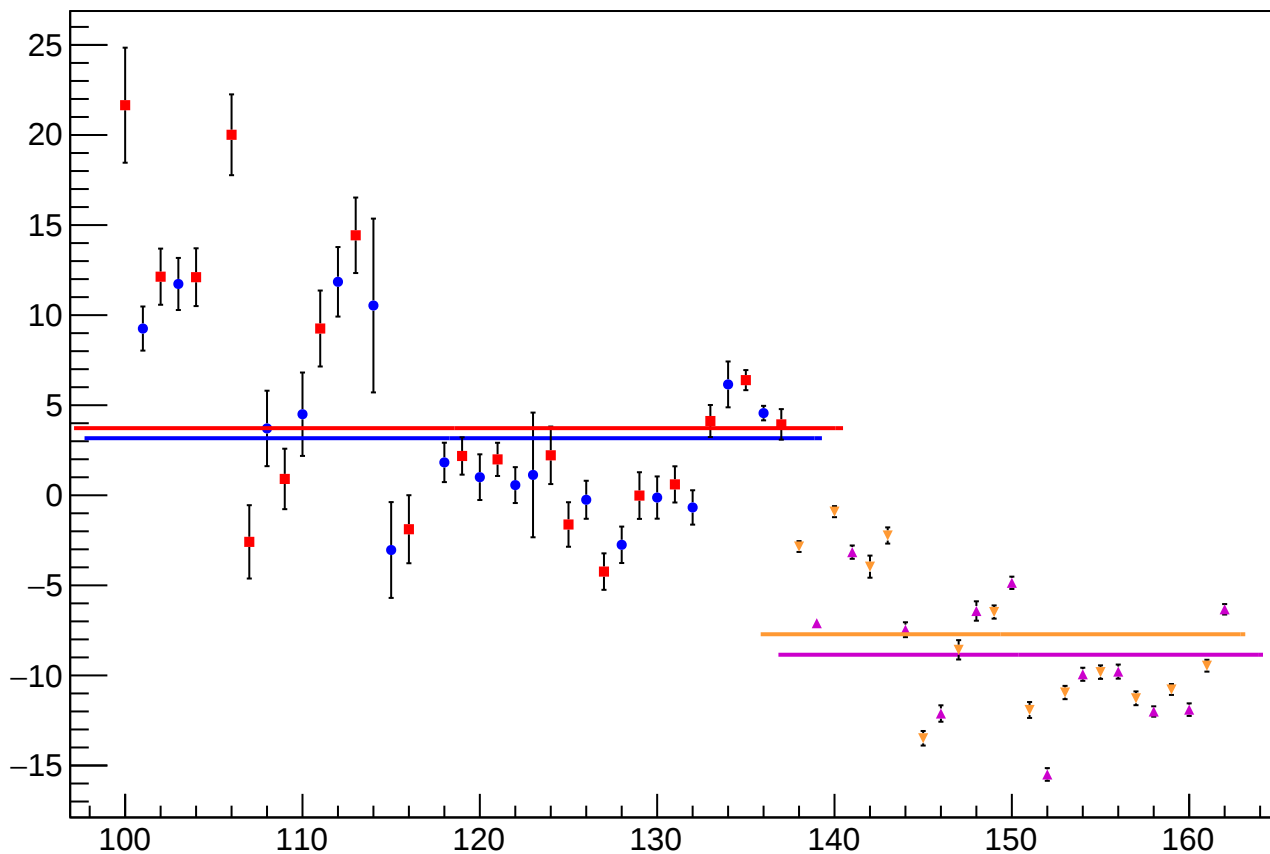
Right: -57.649 $\pm$ 0.101  $\chi^2$ /NDF: 8155.1/35

In: -54.770 $\pm$ 0.068  $\chi^2$ /NDF: 5508.0/28

Out: -54.904 $\pm$ 0.068  $\chi^2$ /NDF: 5975.9/31

All: -54.837 $\pm$ 0.048  $\chi^2$ /NDF: 11485.8/60

reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $3.168 \pm 0.258$   $\chi^2/\text{NDF}: 186.2/16$

Left Out:  $-7.714 \pm 0.104$   $\chi^2/\text{NDF}: 1575.2/12$

Right Out:  $3.726 \pm 0.267$   $\chi^2/\text{NDF}: 323.3/18$

Left In:  $-8.851 \pm 0.101$   $\chi^2/\text{NDF}: 1142.0/11$

Left:  $-8.299 \pm 0.072$   $\chi^2/\text{NDF}: 2779.1/24$

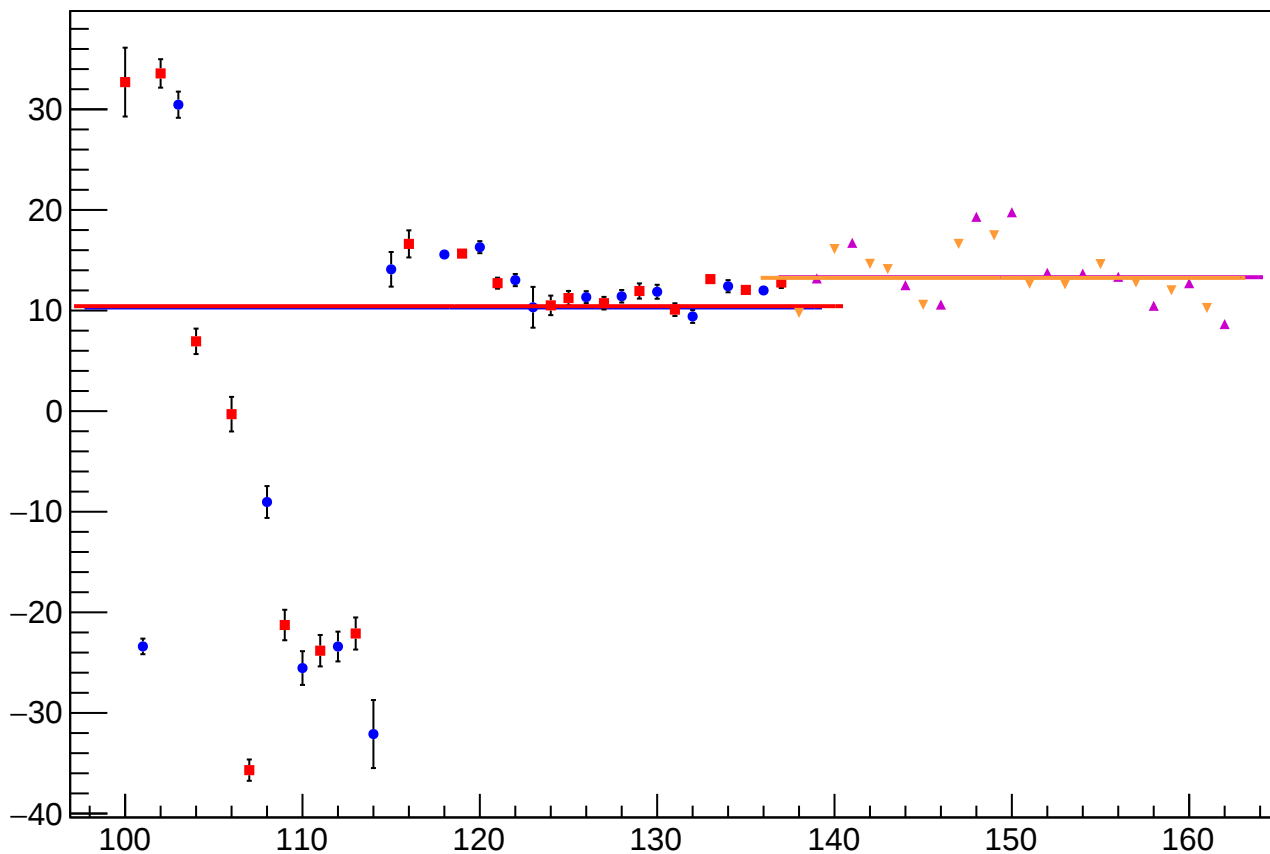
Right:  $3.437 \pm 0.185$   $\chi^2/\text{NDF}: 511.7/35$

In:  $-7.257 \pm 0.094$   $\chi^2/\text{NDF}: 3214.7/28$

Out:  $-6.215 \pm 0.097$   $\chi^2/\text{NDF}: 3492.7/31$

All:  $-6.752 \pm 0.067$   $\chi^2/\text{NDF}: 6767.2/60$

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.306+/-0.157  $\chi^2/\text{NDF}$ : 3712.3/16

Left Out: 13.248+/-0.089  $\chi^2/\text{NDF}$ : 722.8/12

Right Out: 10.433+/-0.160  $\chi^2/\text{NDF}$ : 3828.5/18

Left In: 13.313+/-0.088  $\chi^2/\text{NDF}$ : 1424.6/11

Left: 13.281+/-0.062  $\chi^2/\text{NDF}$ : 2147.6/24

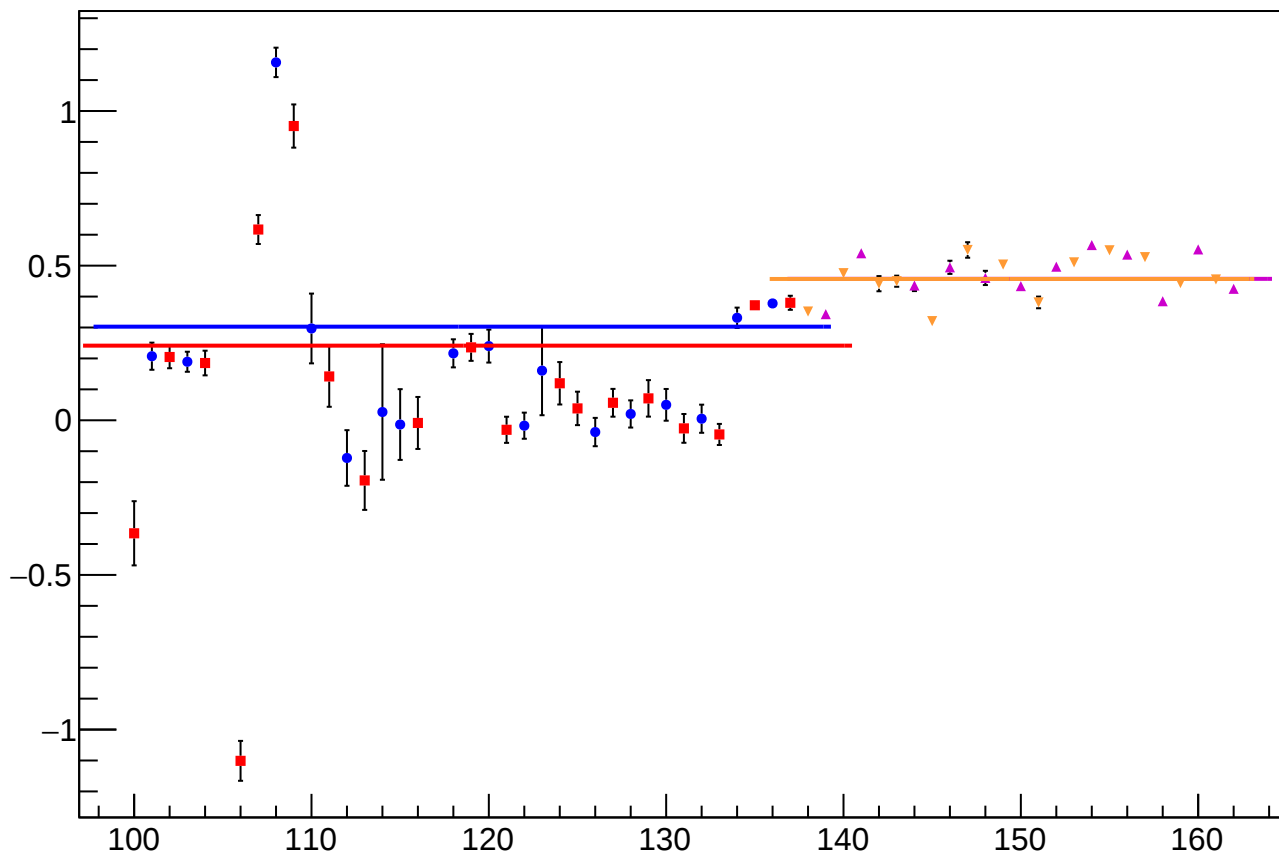
Right: 10.368+/-0.112  $\chi^2/\text{NDF}$ : 7541.1/35

In: 12.591+/-0.077  $\chi^2/\text{NDF}$ : 5416.4/28

Out: 12.587+/-0.077  $\chi^2/\text{NDF}$ : 4788.5/31

All: 12.589+/-0.055  $\chi^2/\text{NDF}$ : 10204.9/60

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.303+/-0.008  $\chi^2/\text{NDF}$ : 646.6/16

Left Out: 0.457+/-0.004  $\chi^2/\text{NDF}$ : 297.9/12

Right Out: 0.241+/-0.008  $\chi^2/\text{NDF}$ : 986.7/18

Left In: 0.457+/-0.004  $\chi^2/\text{NDF}$ : 417.2/11

Left: 0.457+/-0.003  $\chi^2/\text{NDF}$ : 715.1/24

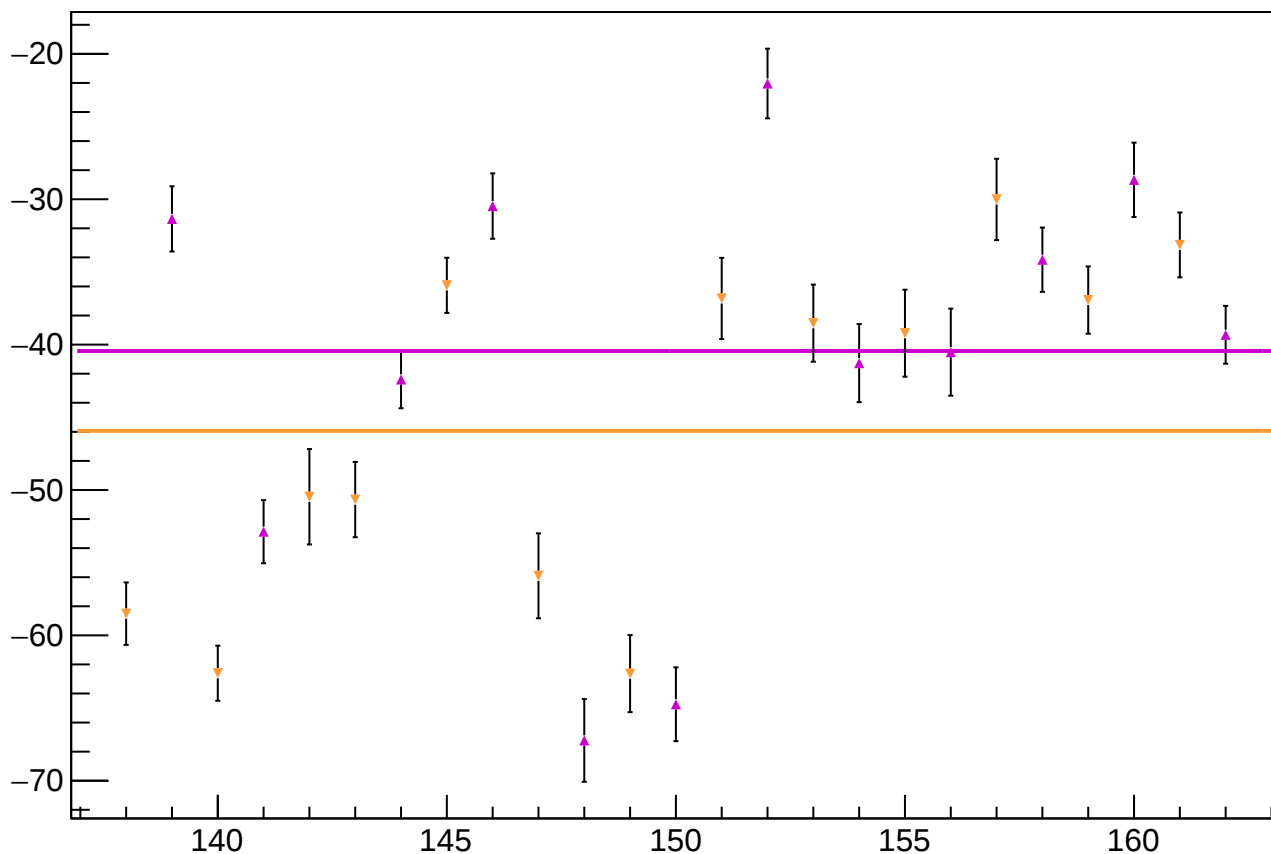
Right: 0.273+/-0.006  $\chi^2/\text{NDF}$ : 1660.4/35

In: 0.430+/-0.003  $\chi^2/\text{NDF}$ : 1356.0/28

Out: 0.418+/-0.004  $\chi^2/\text{NDF}$ : 1813.3/31

All: 0.424+/-0.002  $\chi^2/\text{NDF}$ : 3174.5/60

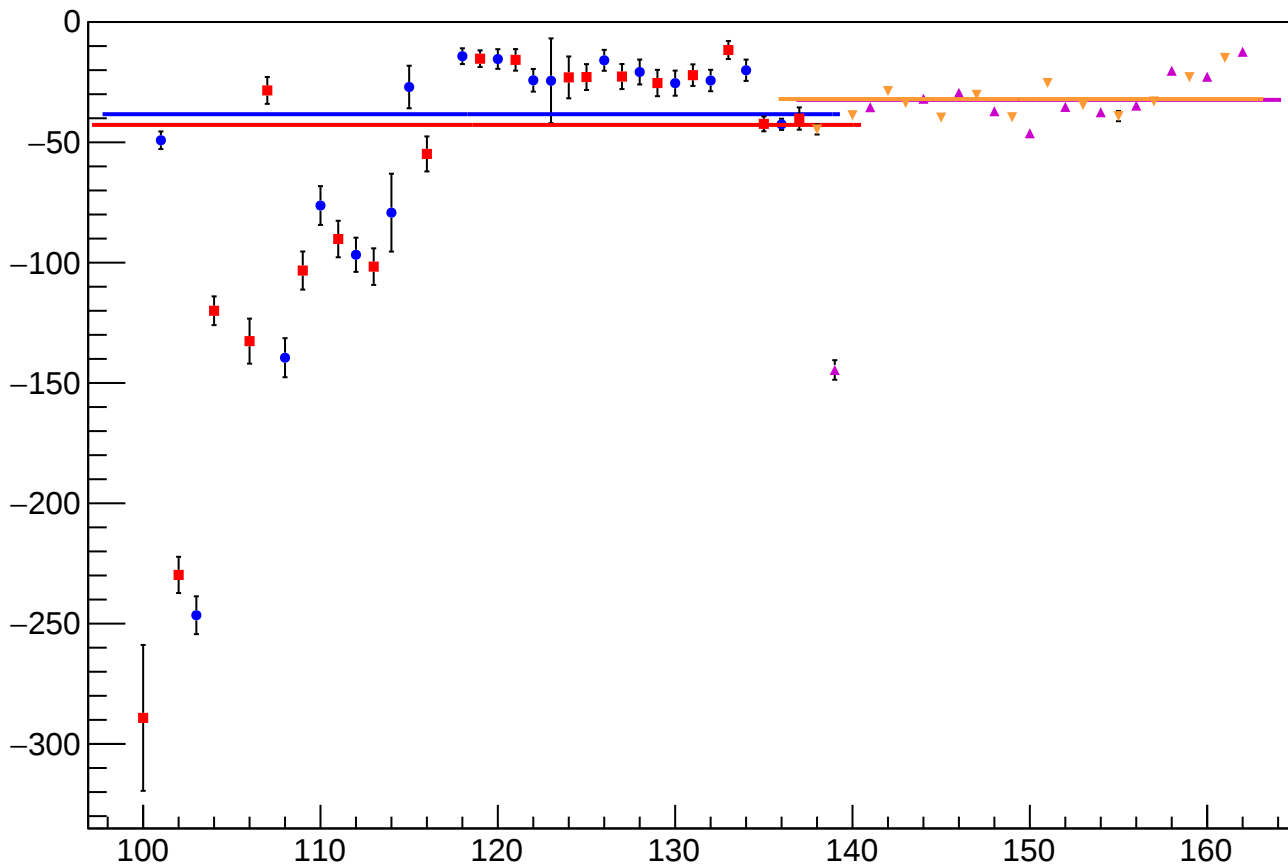
reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -45.932+/-0.679  $\chi^2/\text{NDF}$ :299.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.437+/-0.678  $\chi^2/\text{NDF}$ :338.5/11

Left: -43.183+/-0.480  $\chi^2/\text{NDF}$ : 671.3/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -40.437+/-0.678  $\chi^2/\text{NDF}$ :338.5/11  
 Out: -45.932+/-0.679  $\chi^2/\text{NDF}$ :299.9/12  
 All: -43.183+/-0.480  $\chi^2/\text{NDF}$ : 671.3/24

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-38.309 \pm 1.137$   $\chi^2/\text{NDF}$ : 1132.7/16

Left Out:  $-32.008 \pm 0.474$   $\chi^2/\text{NDF}$ : 287.2/12

Right Out:  $-42.756 \pm 1.211$   $\chi^2/\text{NDF}$ : 1341.6/18

Left In:  $-32.352 \pm 0.478$   $\chi^2/\text{NDF}$ : 1110.8/11

Left:  $-32.179 \pm 0.337$   $\chi^2/\text{NDF}$ : 1398.3/24

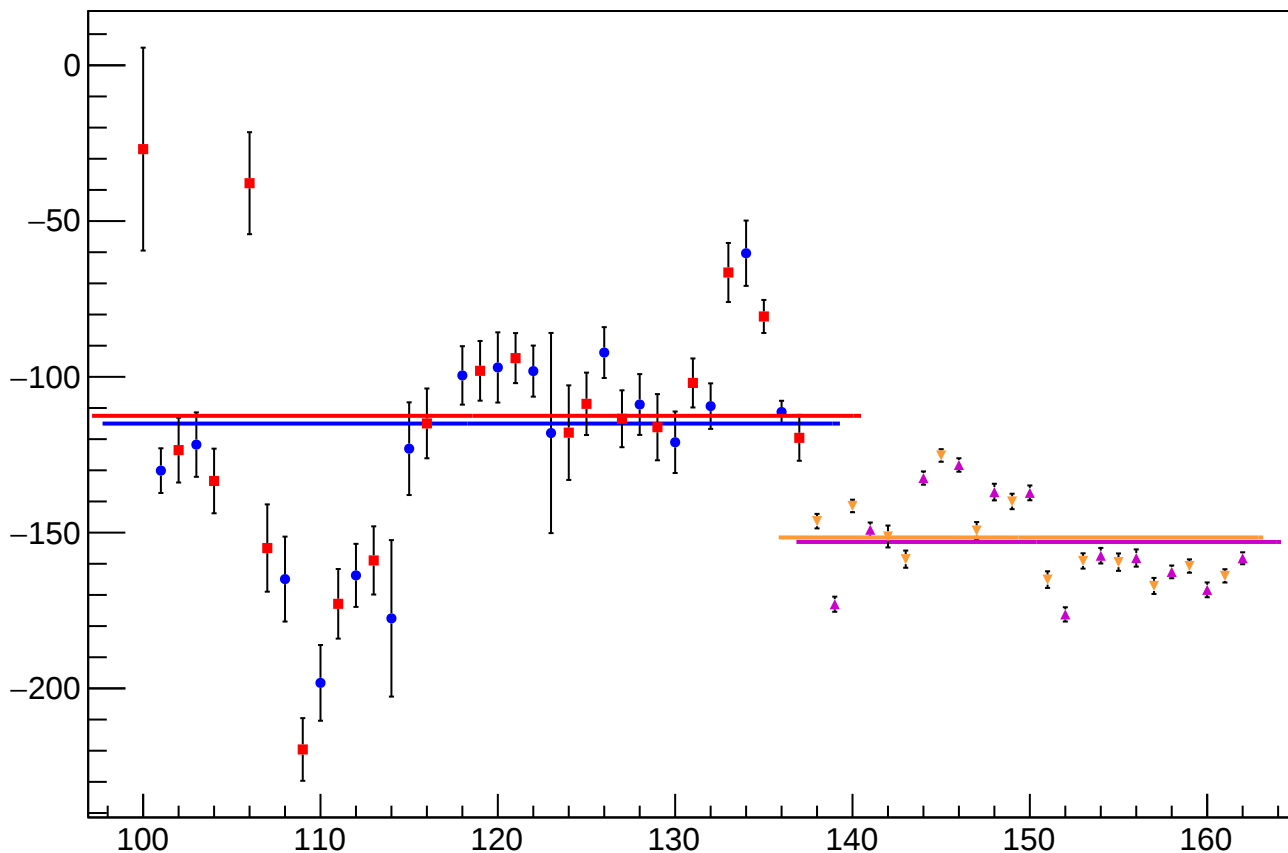
Right:  $-40.393 \pm 0.829$   $\chi^2/\text{NDF}$ : 2481.4/35

In:  $-33.247 \pm 0.441$   $\chi^2/\text{NDF}$ : 2266.8/28

Out:  $-33.439 \pm 0.442$   $\chi^2/\text{NDF}$ : 1697.1/31

All:  $-33.343 \pm 0.312$   $\chi^2/\text{NDF}$ : 3964.0/60

reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-114.996 \pm 2.072$   $\chi^2/\text{NDF}: 141.8/16$

Left Out:  $-151.551 \pm 0.673$   $\chi^2/\text{NDF}: 360.4/12$

Right Out:  $-112.510 \pm 2.207$   $\chi^2/\text{NDF}: 273.1/18$

Left In:  $-152.998 \pm 0.662$   $\chi^2/\text{NDF}: 555.6/11$

Left:  $-152.286 \pm 0.472$   $\chi^2/\text{NDF}: 918.3/24$

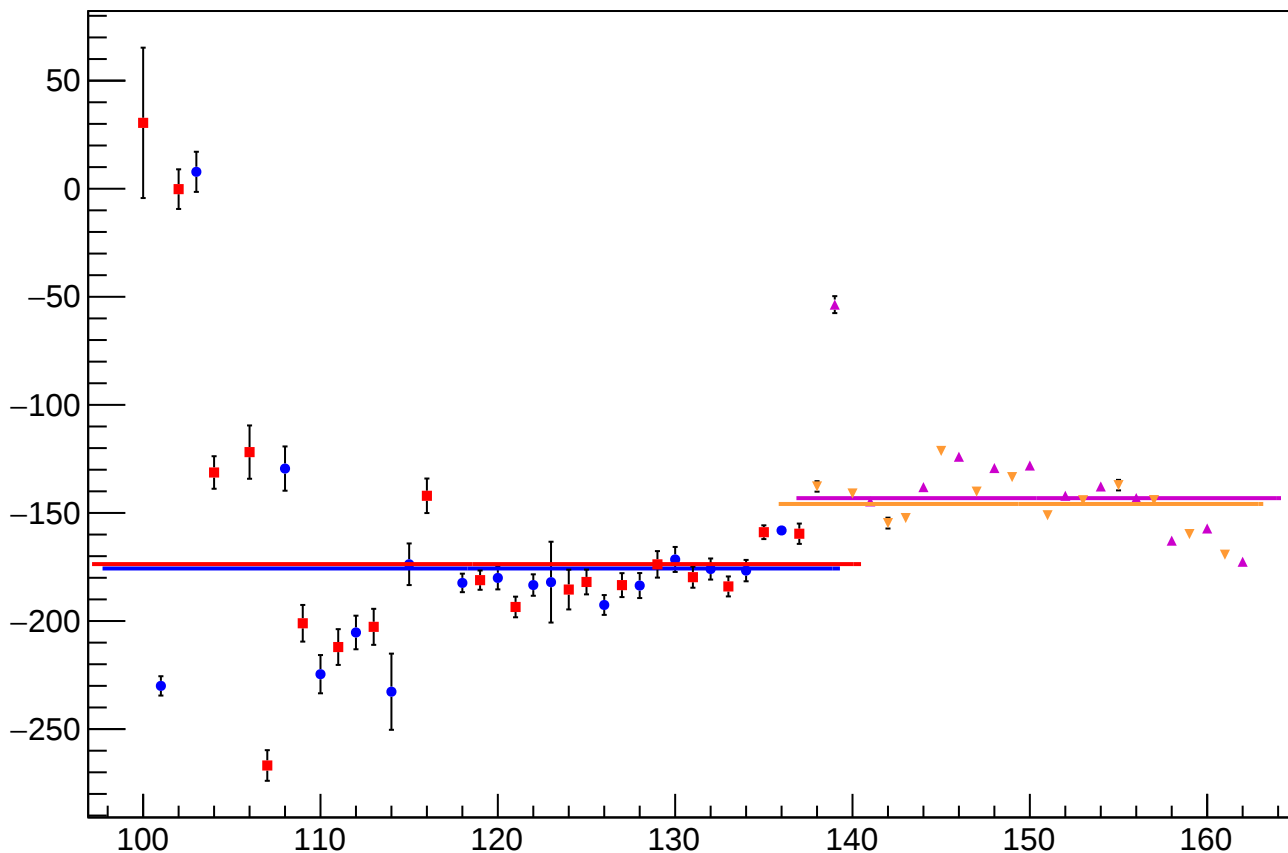
Right:  $-113.831 \pm 1.511$   $\chi^2/\text{NDF}: 415.6/35$

In:  $-149.477 \pm 0.631$   $\chi^2/\text{NDF}: 1002.5/28$

Out:  $-148.225 \pm 0.644$   $\chi^2/\text{NDF}: 919.8/31$

All:  $-148.864 \pm 0.451$   $\chi^2/\text{NDF}: 1924.3/60$

reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-175.696 \pm 1.268$   $\chi^2/\text{NDF}$ : 692.9/16

Left Out:  $-145.846 \pm 0.559$   $\chi^2/\text{NDF}$ : 565.6/12

Right Out:  $-173.666 \pm 1.356$   $\chi^2/\text{NDF}$ : 737.7/18

Left In:  $-143.156 \pm 0.556$   $\chi^2/\text{NDF}$ : 1292.0/11

Left:  $-144.494 \pm 0.394$   $\chi^2/\text{NDF}$ : 1869.2/24

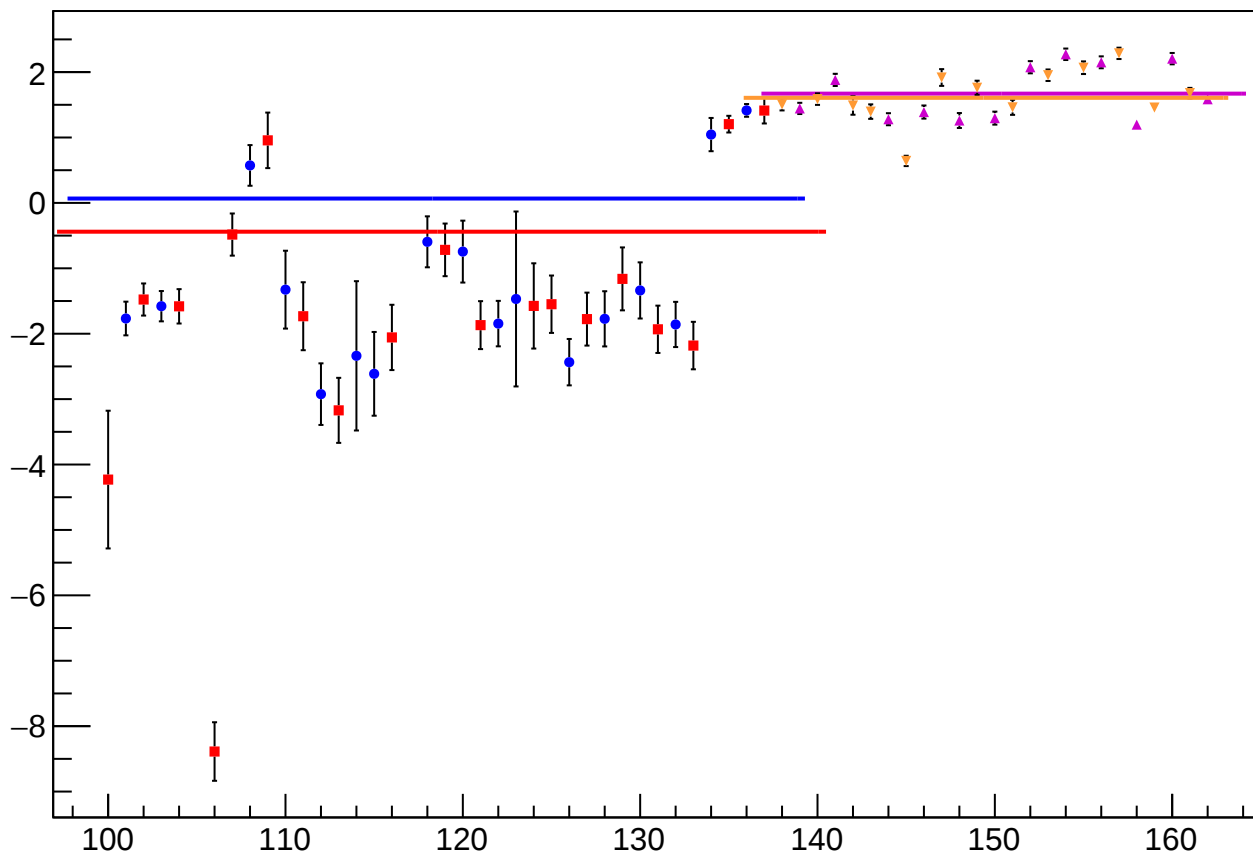
Right:  $-174.749 \pm 0.926$   $\chi^2/\text{NDF}$ : 1431.8/35

In:  $-148.409 \pm 0.509$   $\chi^2/\text{NDF}$ : 2537.5/28

Out:  $-149.886 \pm 0.517$   $\chi^2/\text{NDF}$ : 1663.2/31

All:  $-149.137 \pm 0.363$   $\chi^2/\text{NDF}$ : 4204.8/60

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.067 \pm 0.067$   $\chi^2/\text{NDF}$ : 526.1/16

Left Out:  $1.606 \pm 0.026$   $\chi^2/\text{NDF}$ : 267.8/12

Right Out:  $-0.440 \pm 0.071$   $\chi^2/\text{NDF}$ : 754.9/18

Left In:  $1.671 \pm 0.026$   $\chi^2/\text{NDF}$ : 239.3/11

Left:  $1.639 \pm 0.018$   $\chi^2/\text{NDF}$ : 510.1/24

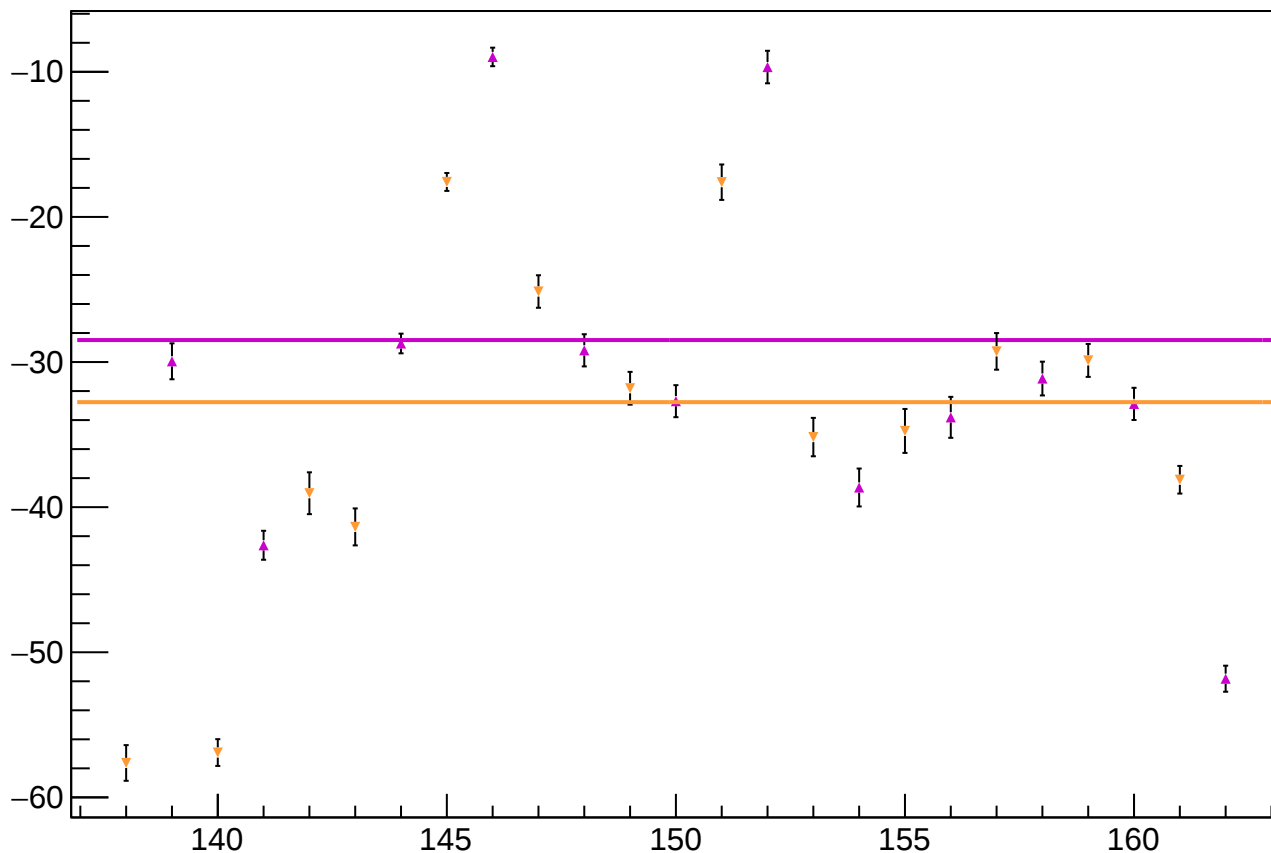
Right:  $-0.172 \pm 0.049$   $\chi^2/\text{NDF}$ : 1308.0/35

In:  $1.464 \pm 0.024$   $\chi^2/\text{NDF}$ : 1264.9/28

Out:  $1.362 \pm 0.025$   $\chi^2/\text{NDF}$ : 1752.1/31

All:  $1.414 \pm 0.017$   $\chi^2/\text{NDF}$ : 3025.7/60

reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected

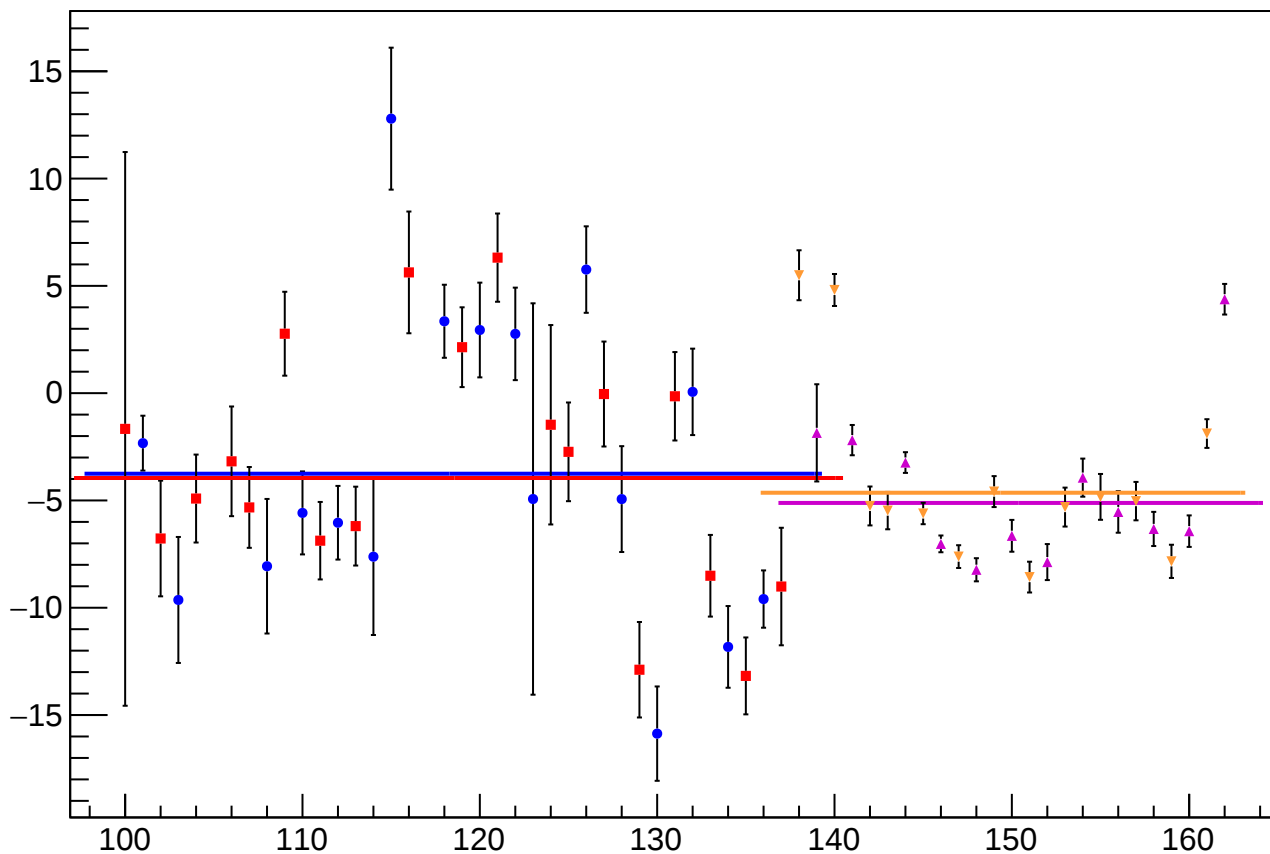


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.764+/-0.297  $\chi^2/\text{NDF}$ :2014.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -28.485+/-0.282  $\chi^2/\text{NDF}$ :2204.0/11

Left: -30.511+/-0.204  $\chi^2/\text{NDF}$ : 4328.0/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -28.485+/-0.282  $\chi^2/\text{NDF}$ :2204.0/11  
 Out: -32.764+/-0.297  $\chi^2/\text{NDF}$ :2014.9/12

All: -30.511+/-0.204  $\chi^2/\text{NDF}$ : 4328.0/24

reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.754 \pm 0.495$   $\chi^2/\text{NDF}$ : 165.3/16

Left Out:  $-4.641 \pm 0.205$   $\chi^2/\text{NDF}$ : 338.0/12

Right Out:  $-3.954 \pm 0.507$   $\chi^2/\text{NDF}$ : 123.3/18

Left In:  $-5.116 \pm 0.191$   $\chi^2/\text{NDF}$ : 291.3/11

Left:  $-4.895 \pm 0.140$   $\chi^2/\text{NDF}$ : 632.1/24

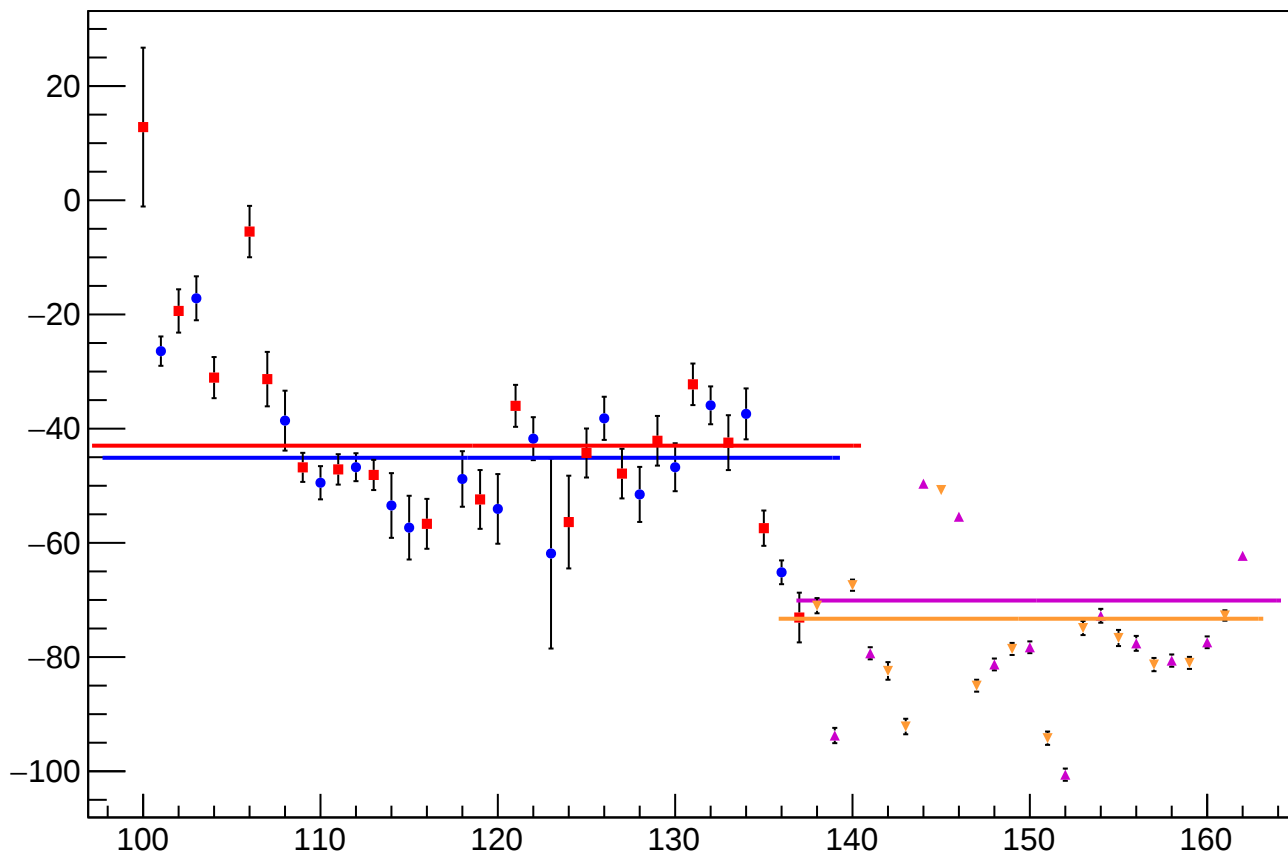
Right:  $-3.852 \pm 0.354$   $\chi^2/\text{NDF}$ : 288.7/35

In:  $-4.940 \pm 0.178$   $\chi^2/\text{NDF}$ : 463.2/28

Out:  $-4.544 \pm 0.190$   $\chi^2/\text{NDF}$ : 462.9/31

All:  $-4.755 \pm 0.130$   $\chi^2/\text{NDF}$ : 928.3/60

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

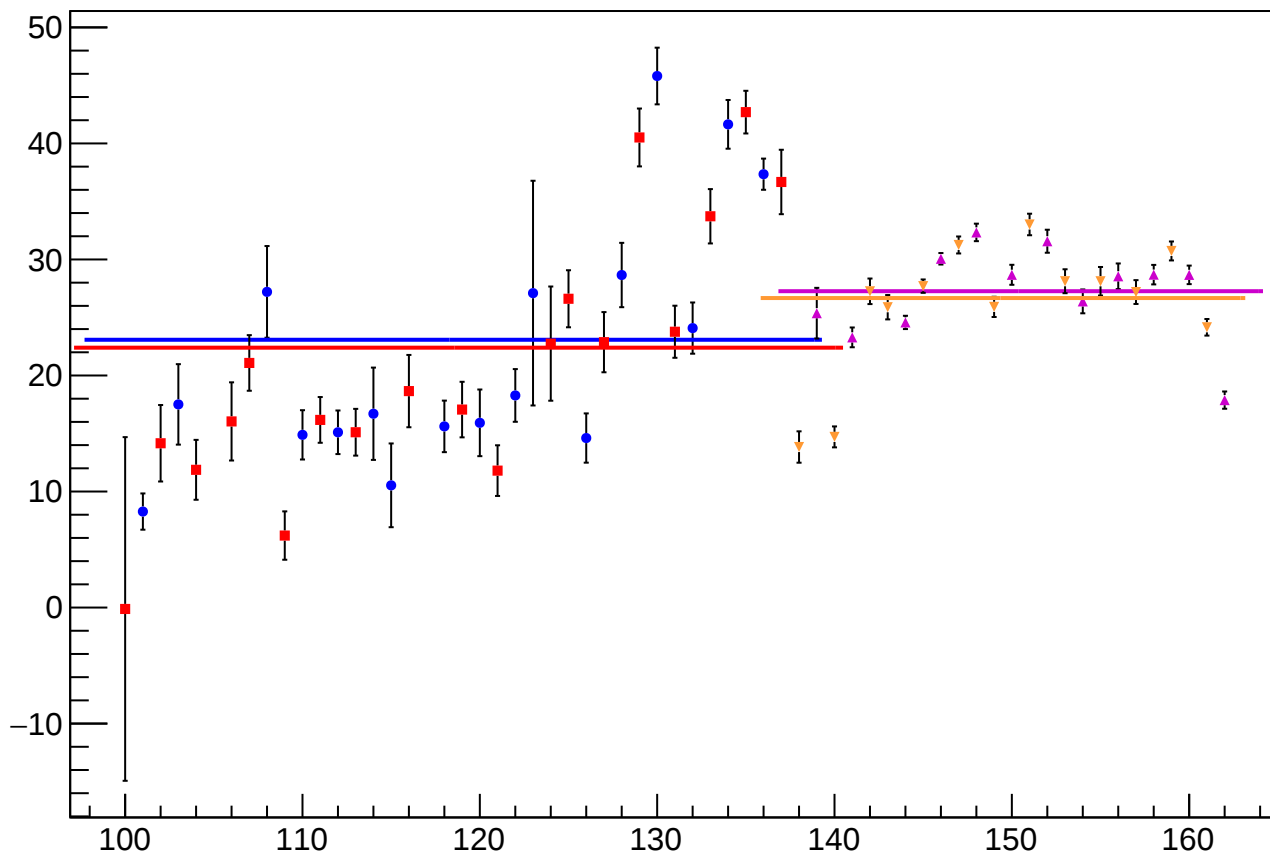


Right In:  $-45.101 \pm 0.881$   $\chi^2/\text{NDF}: 229.9/16$   
 Left Out:  $-73.287 \pm 0.296$   $\chi^2/\text{NDF}: 2029.4/12$   
 Right Out:  $-42.979 \pm 0.877$   $\chi^2/\text{NDF}: 248.9/18$   
 Left In:  $-70.098 \pm 0.276$   $\chi^2/\text{NDF}: 3006.5/11$

Left:  $-71.582 \pm 0.202$   $\chi^2/\text{NDF}: 5098.1/24$   
 Right:  $-44.036 \pm 0.622$   $\chi^2/\text{NDF}: 481.6/35$   
 In:  $-67.865 \pm 0.263$   $\chi^2/\text{NDF}: 3969.7/28$   
 Out:  $-70.197 \pm 0.280$   $\chi^2/\text{NDF}: 3349.9/31$

All:  $-68.958 \pm 0.192$   $\chi^2/\text{NDF}: 7356.4/60$

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $23.079 \pm 0.556$   $\chi^2/\text{NDF}: 461.1/16$

Left Out:  $26.674 \pm 0.243$   $\chi^2/\text{NDF}: 397.2/12$

Right Out:  $22.397 \pm 0.572$   $\chi^2/\text{NDF}: 370.3/18$

Left In:  $27.265 \pm 0.227$   $\chi^2/\text{NDF}: 310.4/11$

Left:  $26.990 \pm 0.166$   $\chi^2/\text{NDF}: 710.7/24$

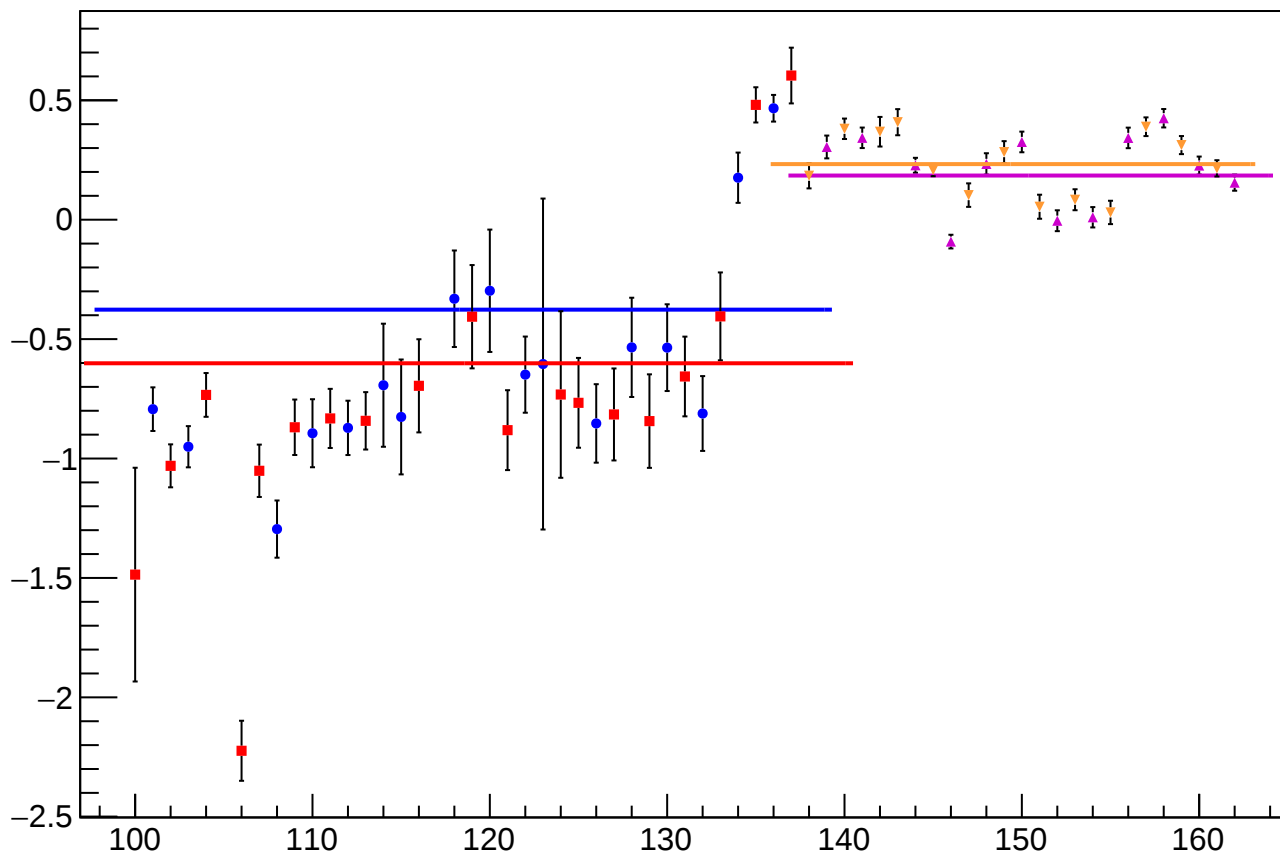
Right:  $22.748 \pm 0.399$   $\chi^2/\text{NDF}: 832.1/35$

In:  $26.666 \pm 0.210$   $\chi^2/\text{NDF}: 820.2/28$

Out:  $26.019 \pm 0.224$   $\chi^2/\text{NDF}: 814.7/31$

All:  $26.363 \pm 0.153$   $\chi^2/\text{NDF}: 1639.3/60$

reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.1/16$

Left Out:  $0.233 \pm 0.012$   $\chi^2/\text{NDF}: 98.9/12$

Right Out:  $-0.601 \pm 0.030$   $\chi^2/\text{NDF}: 555.6/18$

Left In:  $0.185 \pm 0.011$   $\chi^2/\text{NDF}: 216.3/11$

Left:  $0.208 \pm 0.008$   $\chi^2/\text{NDF}: 324.1/24$

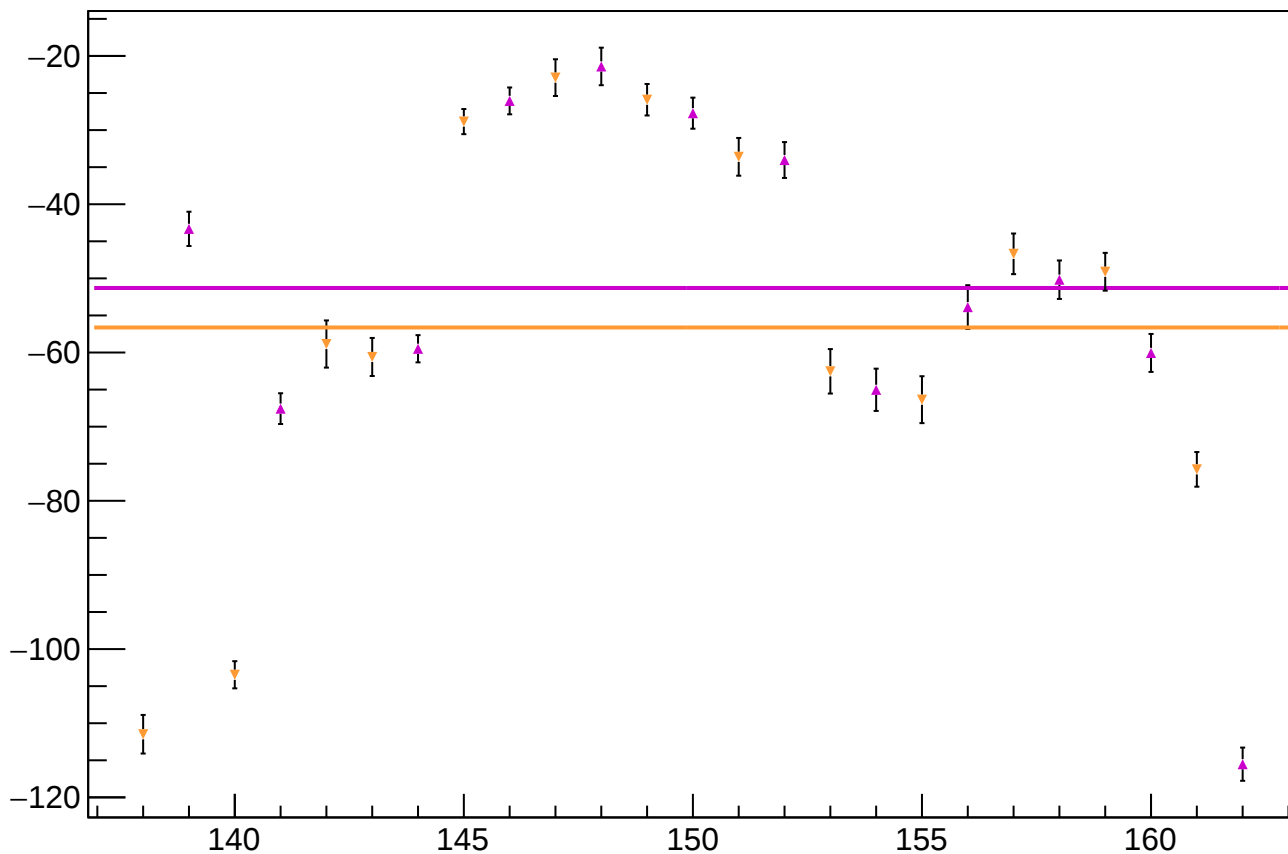
Right:  $-0.489 \pm 0.021$   $\chi^2/\text{NDF}: 1020.5/35$

In:  $0.118 \pm 0.010$   $\chi^2/\text{NDF}: 960.4/28$

Out:  $0.125 \pm 0.011$   $\chi^2/\text{NDF}: 1320.1/31$

All:  $0.121 \pm 0.008$   $\chi^2/\text{NDF}: 2280.8/60$

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



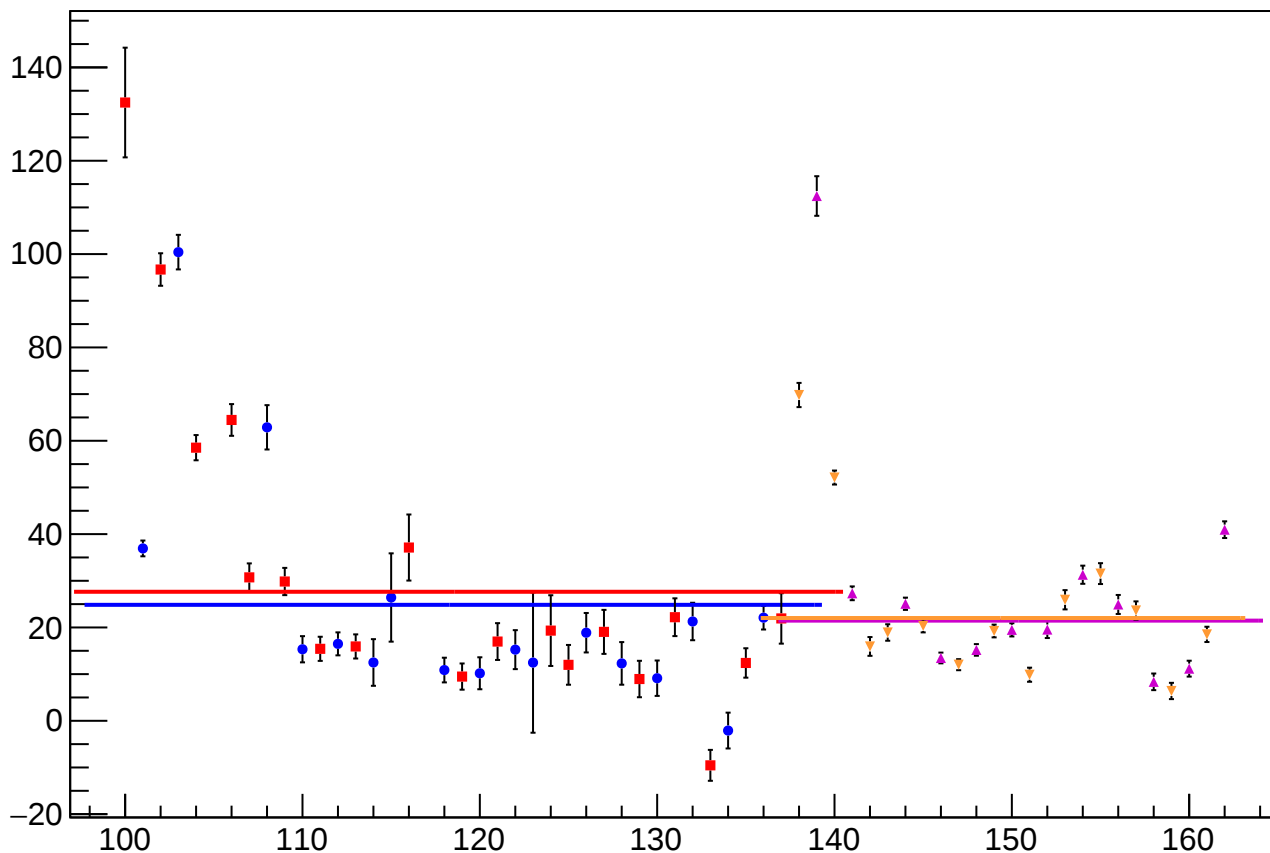
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -56.622+/-0.665  $\chi^2/\text{NDF}$ :1946.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -51.296+/-0.657  $\chi^2/\text{NDF}$ :1462.8/11

Left: -53.930+/-0.467  $\chi^2/\text{NDF}$ : 3441.7/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -51.296+/-0.657  $\chi^2/\text{NDF}$ :1462.8/11  
 Out: -56.622+/-0.665  $\chi^2/\text{NDF}$ :1946.4/12

All: -53.930+/-0.467  $\chi^2/\text{NDF}$ : 3441.7/24

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $24.848 \pm 0.801$   $\chi^2/\text{NDF}$ : 690.8/16

Left Out:  $22.023 \pm 0.458$   $\chi^2/\text{NDF}$ : 1003.7/12

Right Out:  $27.648 \pm 0.810$   $\chi^2/\text{NDF}$ : 1009.2/18

Left In:  $21.465 \pm 0.458$   $\chi^2/\text{NDF}$ : 798.0/11

Left:  $21.743 \pm 0.324$   $\chi^2/\text{NDF}$ : 1802.5/24

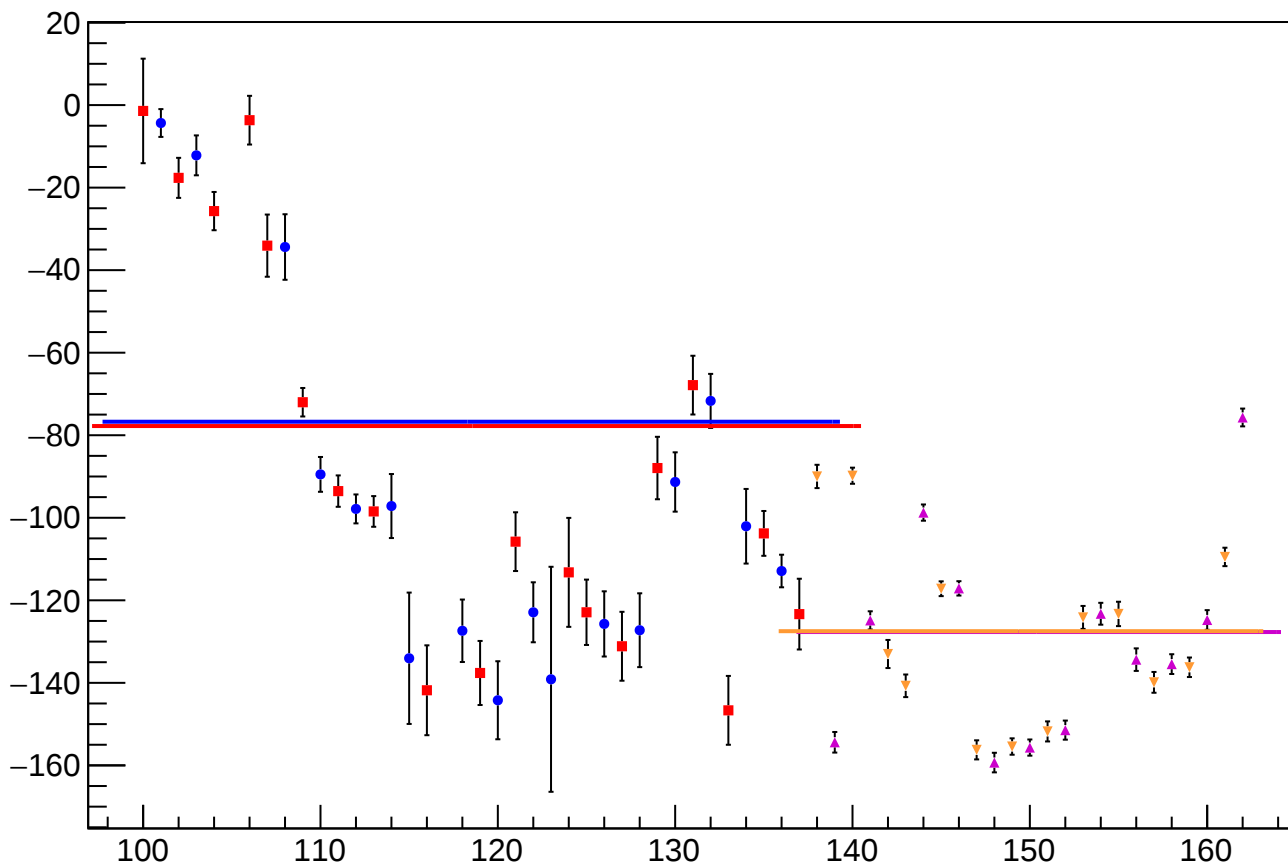
Right:  $26.231 \pm 0.570$   $\chi^2/\text{NDF}$ : 1706.0/35

In:  $22.298 \pm 0.397$   $\chi^2/\text{NDF}$ : 1502.3/28

Out:  $23.386 \pm 0.399$   $\chi^2/\text{NDF}$ : 2049.4/31

All:  $22.840 \pm 0.282$   $\chi^2/\text{NDF}$ : 3555.4/60

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-76.728 \pm 1.412$   $\chi^2/\text{NDF}: 1042.0/16$

Left Out:  $-127.483 \pm 0.658$   $\chi^2/\text{NDF}: 1166.3/12$

Right Out:  $-77.773 \pm 1.352$   $\chi^2/\text{NDF}: 871.8/18$

Left In:  $-127.688 \pm 0.643$   $\chi^2/\text{NDF}: 1458.9/11$

Left:  $-127.588 \pm 0.460$   $\chi^2/\text{NDF}: 2625.2/24$

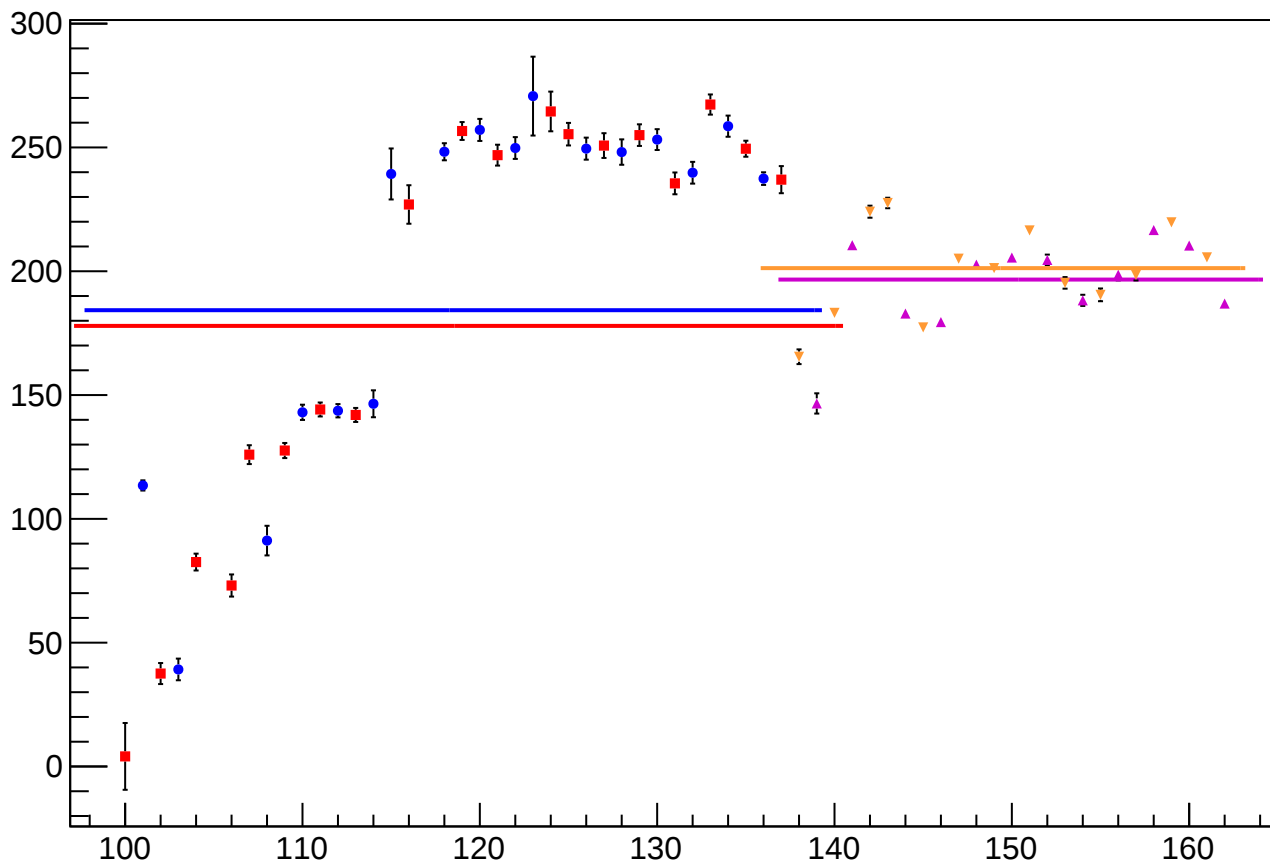
Right:  $-77.273 \pm 0.977$   $\chi^2/\text{NDF}: 1914.1/35$

In:  $-118.947 \pm 0.585$   $\chi^2/\text{NDF}: 3579.7/28$

Out:  $-117.965 \pm 0.592$   $\chi^2/\text{NDF}: 3130.6/31$

All:  $-118.462 \pm 0.416$   $\chi^2/\text{NDF}: 6711.7/60$

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 184.271 $\pm$ 0.914  $\chi^2$ /NDF: 5401.0/16

Left Out: 201.259 $\pm$ 0.545  $\chi^2$ /NDF:908.8/12

Right Out: 177.930 $\pm$ 0.924  $\chi^2$ /NDF: 6330.9/18

Left In: 196.640 $\pm$ 0.538  $\chi^2$ /NDF:698.2/11

Left: 198.922 $\pm$ 0.383  $\chi^2$ /NDF: 1643.4/24

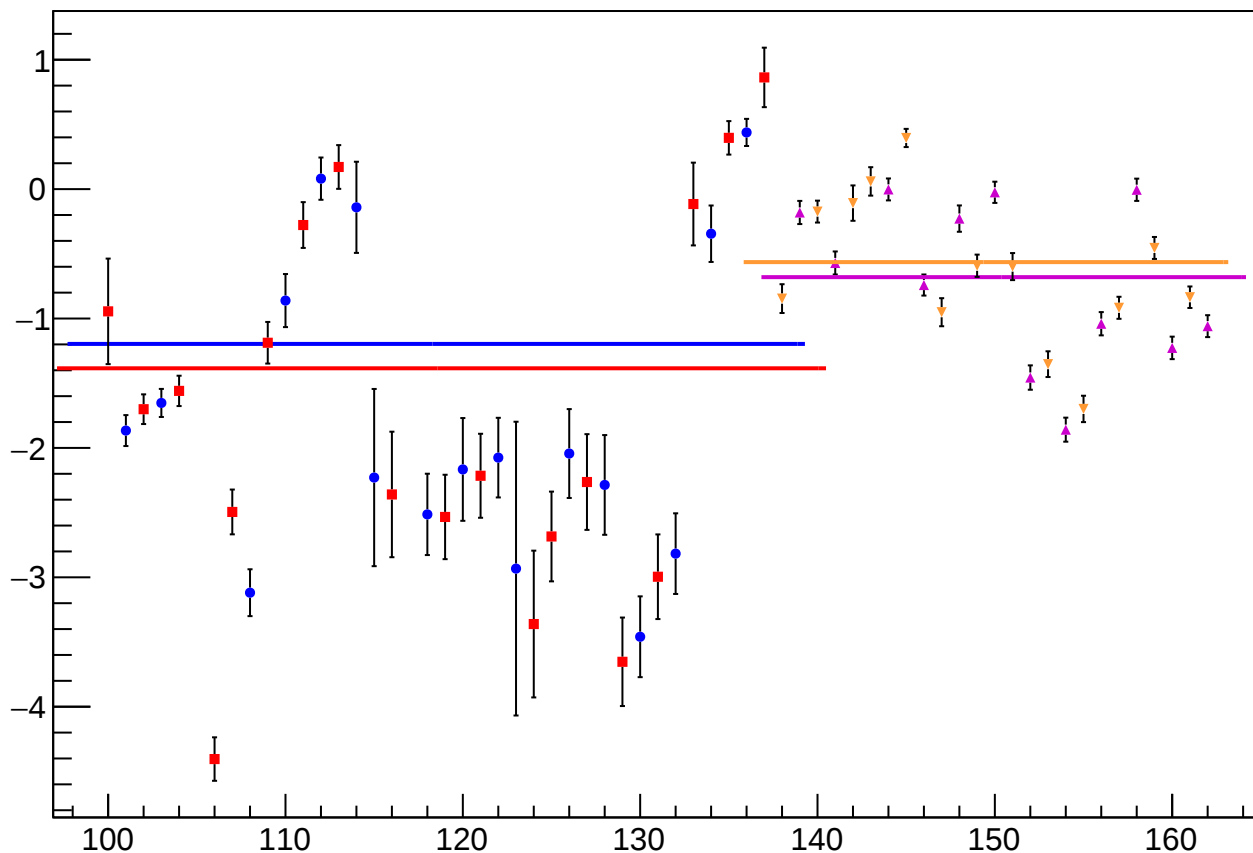
Right: 181.136 $\pm$ 0.650  $\chi^2$ /NDF: 11755.7/35

In: 193.452 $\pm$ 0.464  $\chi^2$ /NDF:6235.2/28

Out: 195.239 $\pm$ 0.469  $\chi^2$ /NDF:7712.8/31

All: 194.335 $\pm$ 0.330  $\chi^2$ /NDF: 13955.3/60

reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.196 \pm 0.048$   $\chi^2/\text{NDF}$ : 623.1/16

Left Out:  $-0.564 \pm 0.026$   $\chi^2/\text{NDF}$ : 486.4/12

Right Out:  $-1.385 \pm 0.046$   $\chi^2/\text{NDF}$ : 924.4/18

Left In:  $-0.680 \pm 0.025$   $\chi^2/\text{NDF}$ : 547.1/11

Left:  $-0.623 \pm 0.018$   $\chi^2/\text{NDF}$ : 1043.8/24

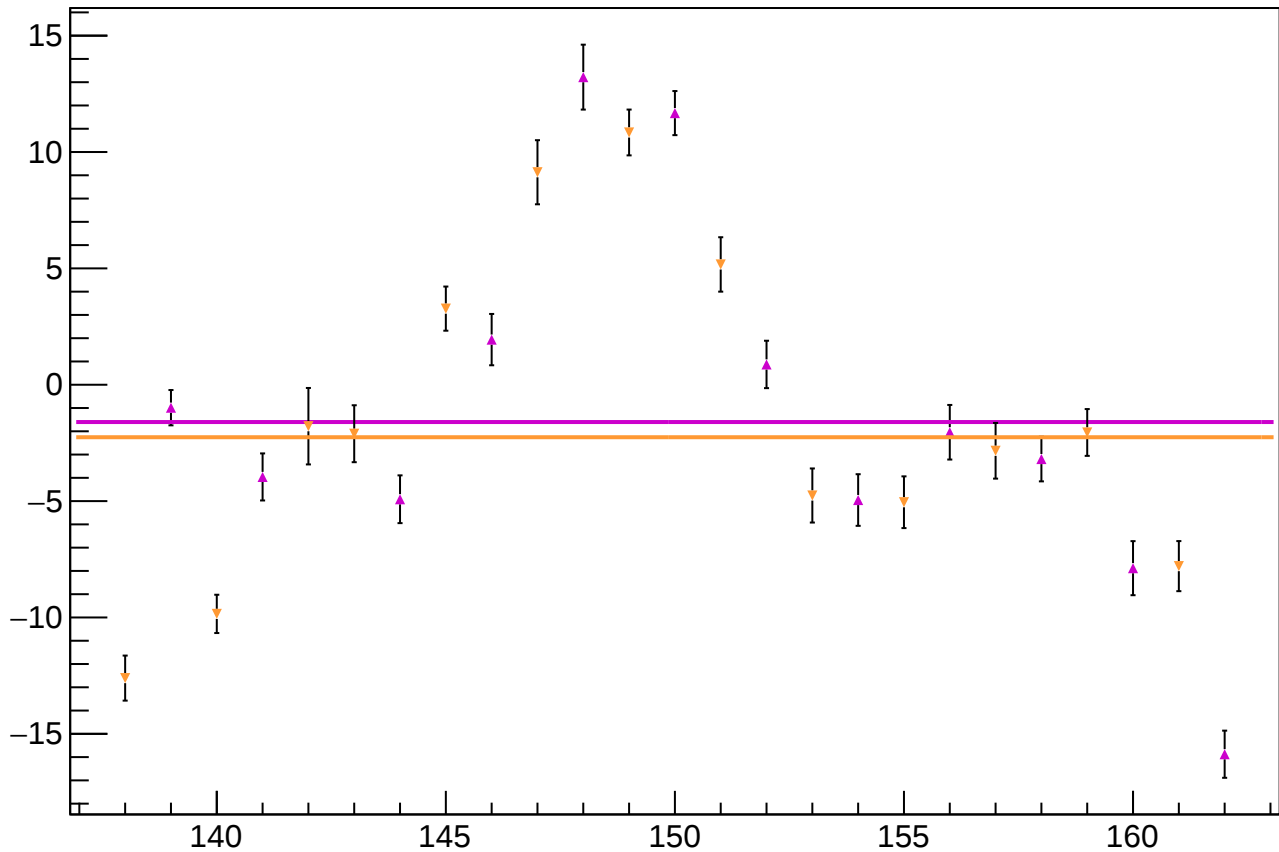
Right:  $-1.295 \pm 0.033$   $\chi^2/\text{NDF}$ : 1555.6/35

In:  $-0.793 \pm 0.022$   $\chi^2/\text{NDF}$ : 1260.2/28

Out:  $-0.763 \pm 0.023$   $\chi^2/\text{NDF}$ : 1654.2/31

All:  $-0.778 \pm 0.016$   $\chi^2/\text{NDF}$ : 2915.3/60

reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -2.255+/-0.300  $\chi^2/\text{NDF}$ : 557.0/12

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

Left In: -1.603+/-0.296  $\chi^2/\text{NDF}$ : 581.8/11

Left: -1.924+/-0.211  $\chi^2/\text{NDF}$ : 1141.2/24

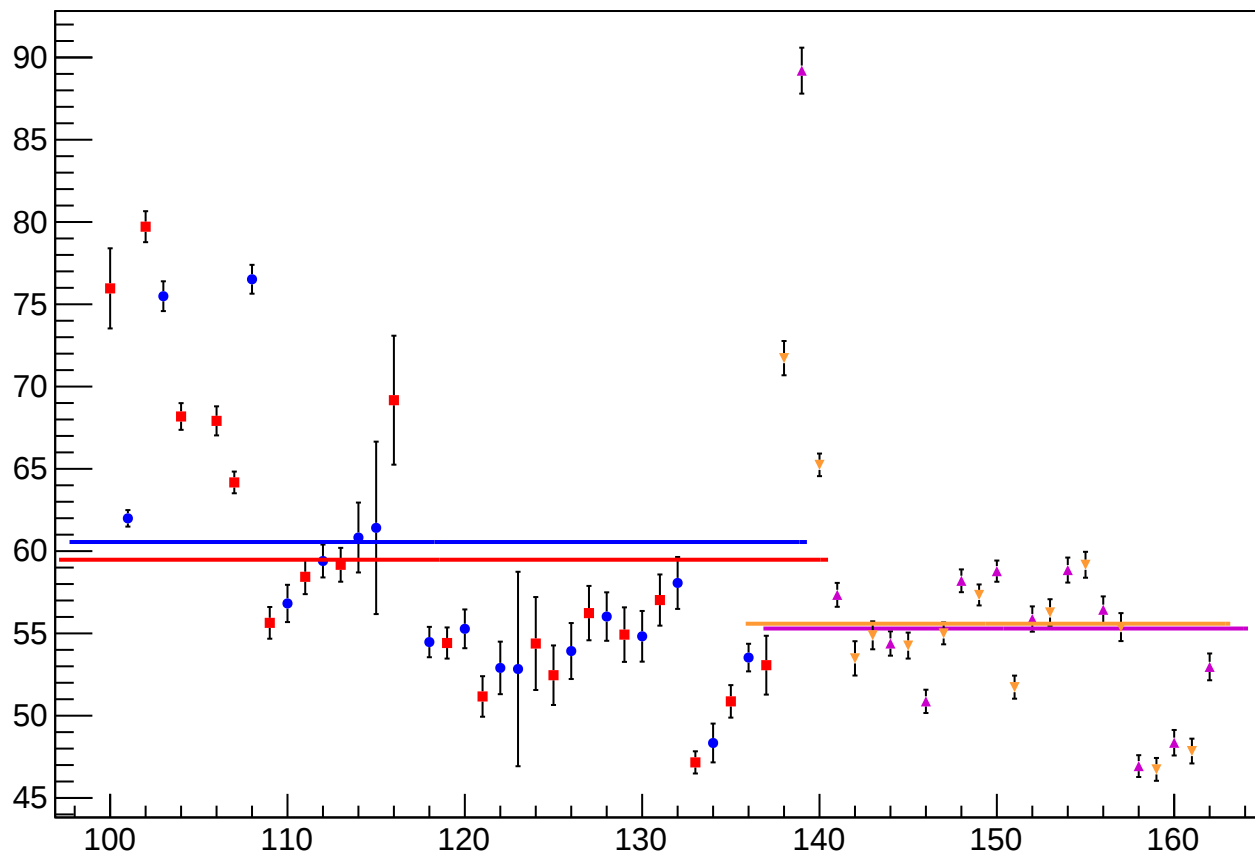
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.603+/-0.296  $\chi^2/\text{NDF}$ : 581.8/11

Out: -2.255+/-0.300  $\chi^2/\text{NDF}$ : 557.0/12

All: -1.924+/-0.211  $\chi^2/\text{NDF}$ : 1141.2/24

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 60.554 $\pm$ 0.262  $\chi^2$ /NDF: 930.8/16

Left Out: 55.589 $\pm$ 0.213  $\chi^2$ /NDF: 773.9/12

Right Out: 59.477 $\pm$ 0.248  $\chi^2$ /NDF: 1317.0/18

Left In: 55.296 $\pm$ 0.218  $\chi^2$ /NDF: 956.8/11

Left: 55.446 $\pm$ 0.152  $\chi^2$ /NDF: 1731.7/24

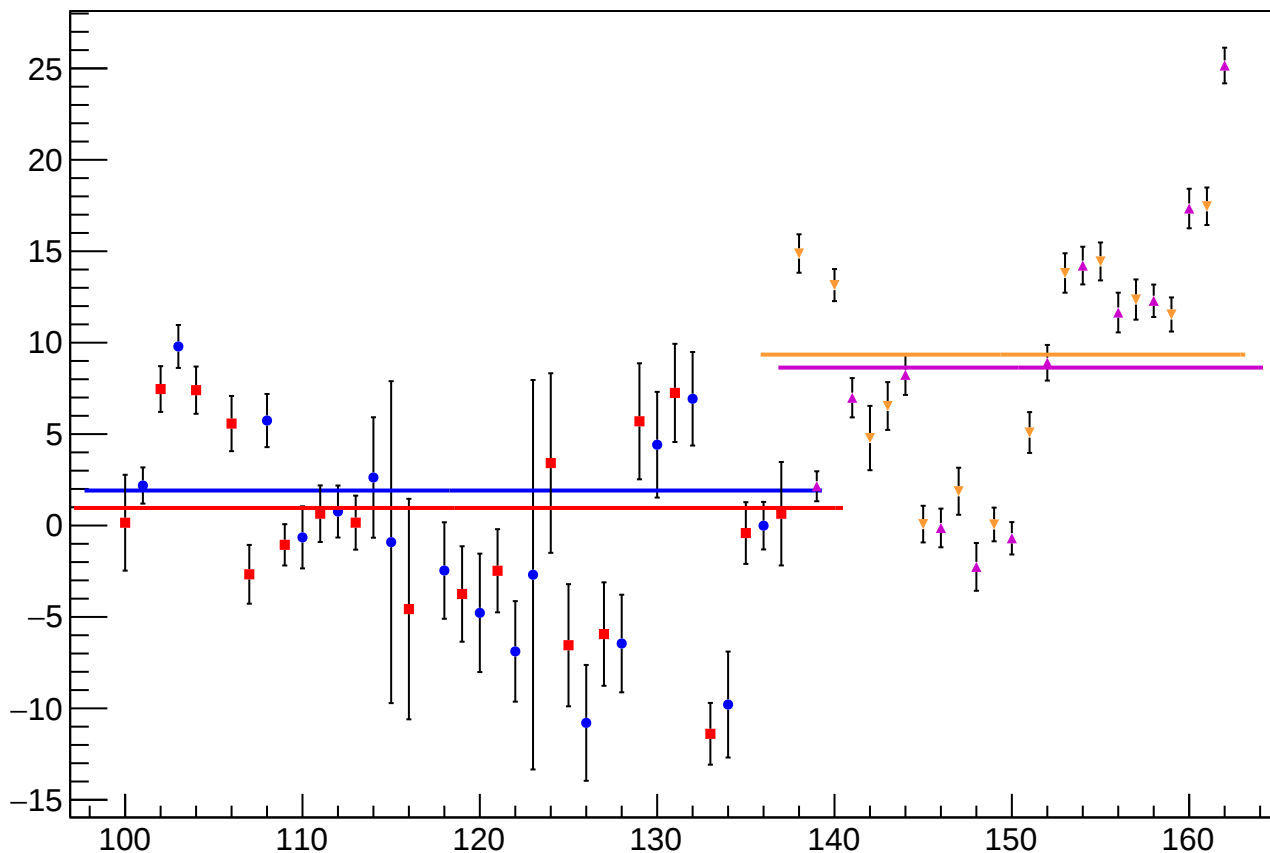
Right: 59.987 $\pm$ 0.180  $\chi^2$ /NDF: 2256.7/35

In: 57.446 $\pm$ 0.167  $\chi^2$ /NDF: 2126.4/28

Out: 57.238 $\pm$ 0.161  $\chi^2$ /NDF: 2232.6/31

All: 57.338 $\pm$ 0.116  $\chi^2$ /NDF: 4359.8/60

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $1.914 \pm 0.458$   $\chi^2/\text{NDF}: 121.6/16$

Left Out:  $9.347 \pm 0.296$   $\chi^2/\text{NDF}: 410.6/12$

Right Out:  $0.960 \pm 0.424$   $\chi^2/\text{NDF}: 149.5/18$

Left In:  $8.637 \pm 0.289$   $\chi^2/\text{NDF}: 720.2/11$

Left:  $8.984 \pm 0.207$   $\chi^2/\text{NDF}: 1133.7/24$

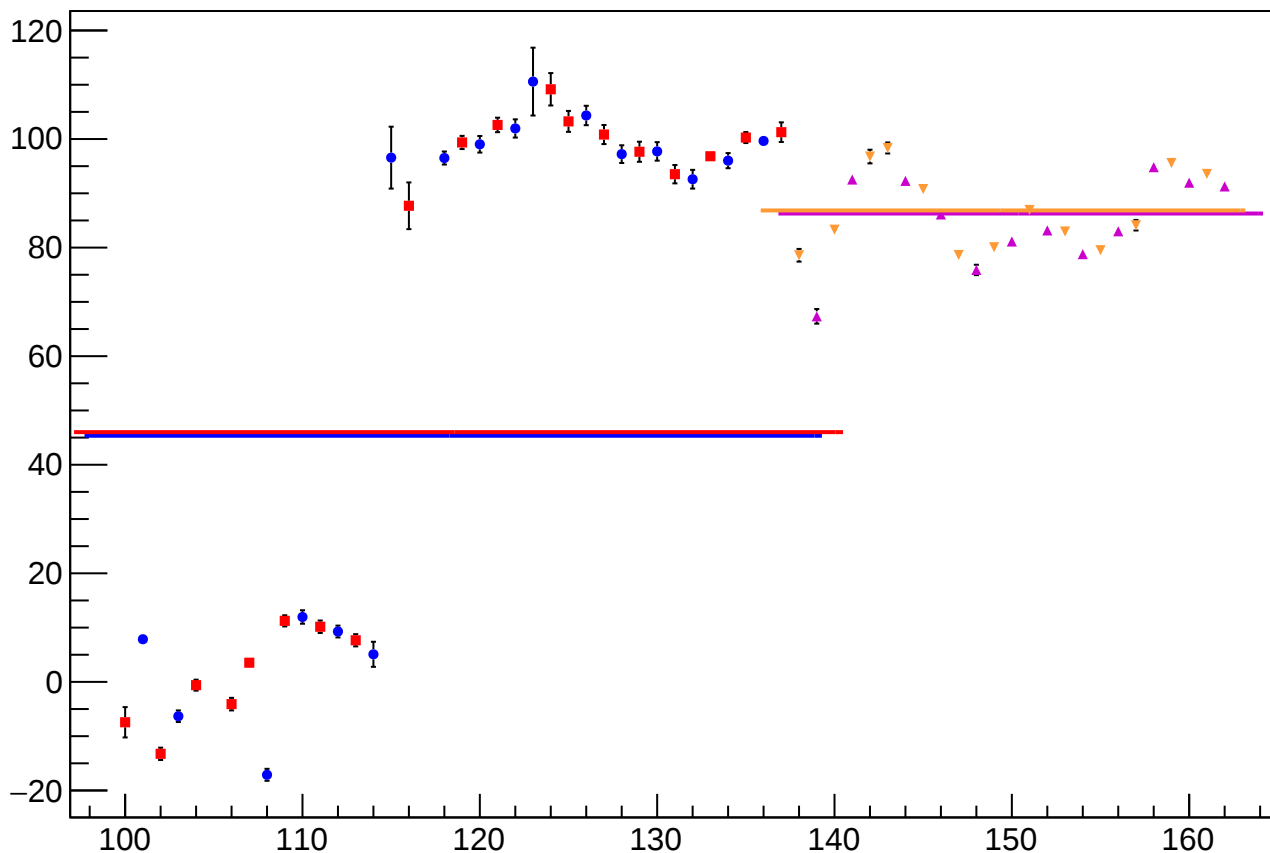
Right:  $1.401 \pm 0.311$   $\chi^2/\text{NDF}: 273.4/35$

In:  $6.719 \pm 0.244$   $\chi^2/\text{NDF}: 996.0/28$

Out:  $6.602 \pm 0.243$   $\chi^2/\text{NDF}: 823.0/31$

All:  $6.660 \pm 0.172$   $\chi^2/\text{NDF}: 1819.0/60$

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 45.344 $\pm$ 0.303  $\chi^2$ /NDF: 25071.0/16

Left Out: 86.843 $\pm$ 0.249  $\chi^2$ /NDF: 743.5/12

Right Out: 46.007 $\pm$ 0.289  $\chi^2$ /NDF: 28219.9/18

Left In: 86.280 $\pm$ 0.250  $\chi^2$ /NDF: 790.2/11

Left: 86.563 $\pm$ 0.177  $\chi^2$ /NDF: 1536.3/24

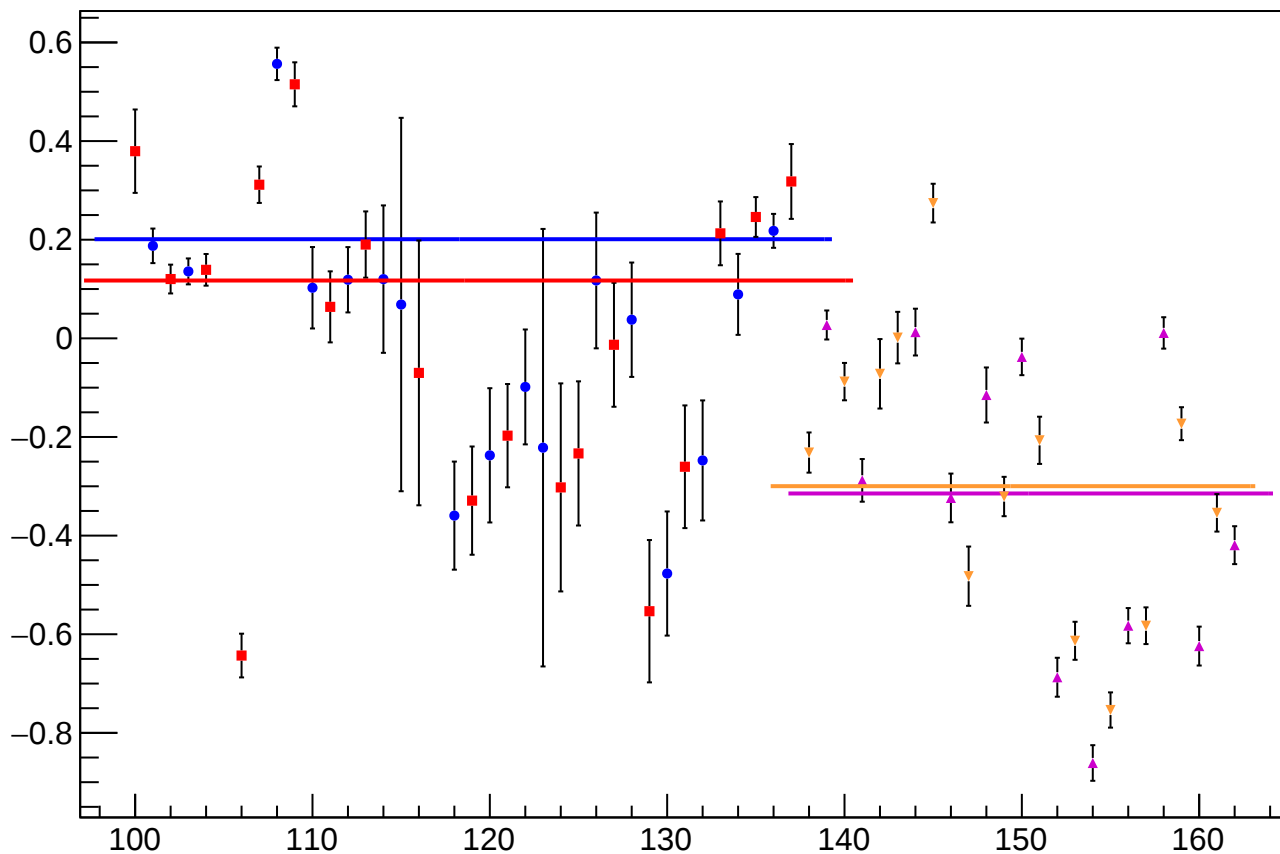
Right: 45.691 $\pm$ 0.209  $\chi^2$ /NDF: 53293.4/35

In: 69.688 $\pm$ 0.193  $\chi^2$ /NDF: 36698.8/28

Out: 69.467 $\pm$ 0.189  $\chi^2$ /NDF: 40397.1/31

All: 69.575 $\pm$ 0.135  $\chi^2$ /NDF: 77096.6/60

reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}: 217.8/16$

Left Out:  $-0.300 \pm 0.011$   $\chi^2/\text{NDF}: 606.7/12$

Right Out:  $0.117 \pm 0.013$   $\chi^2/\text{NDF}: 500.1/18$

Left In:  $-0.315 \pm 0.011$   $\chi^2/\text{NDF}: 799.4/11$

Left:  $-0.307 \pm 0.008$   $\chi^2/\text{NDF}: 1407.0/24$

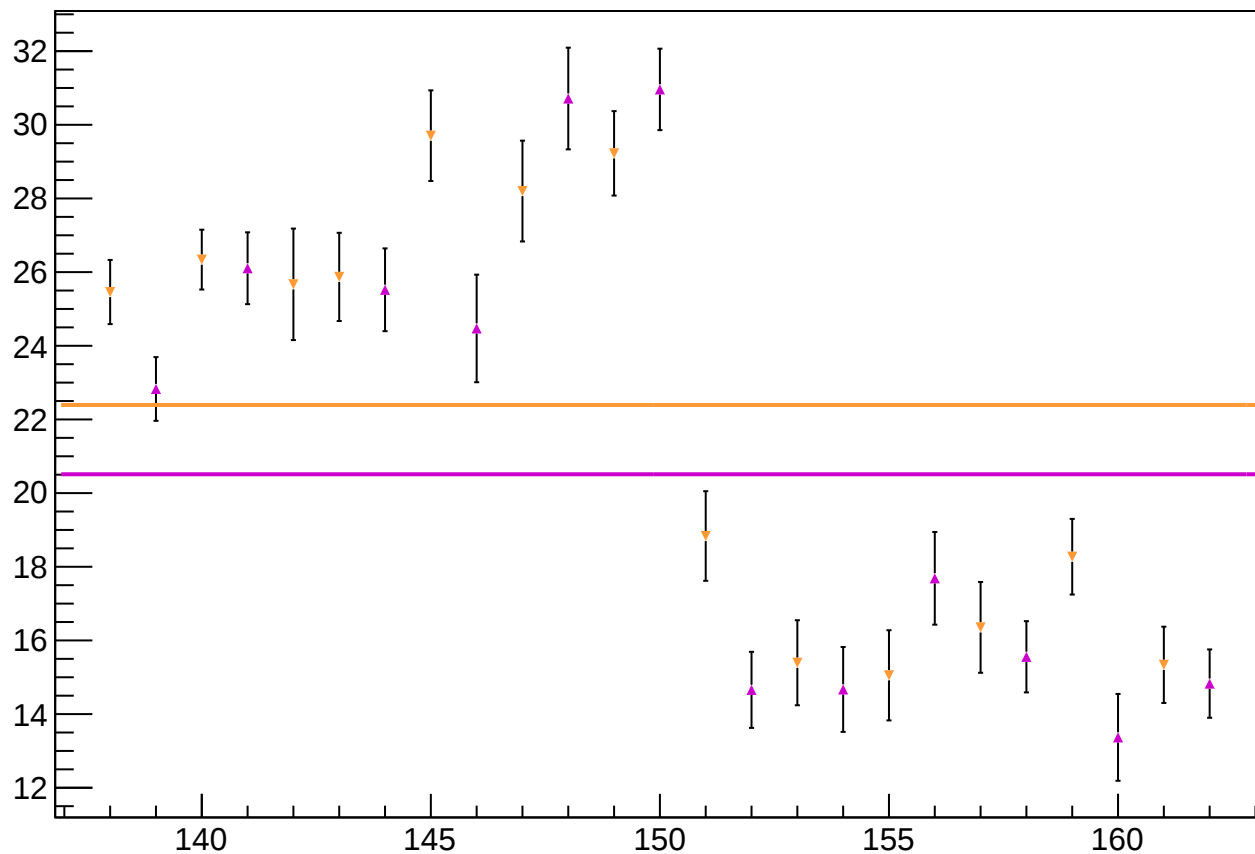
Right:  $0.156 \pm 0.010$   $\chi^2/\text{NDF}: 737.1/35$

In:  $-0.116 \pm 0.009$   $\chi^2/\text{NDF}: 1846.6/28$

Out:  $-0.118 \pm 0.009$   $\chi^2/\text{NDF}: 1685.3/31$

All:  $-0.117 \pm 0.006$   $\chi^2/\text{NDF}: 3531.9/60$

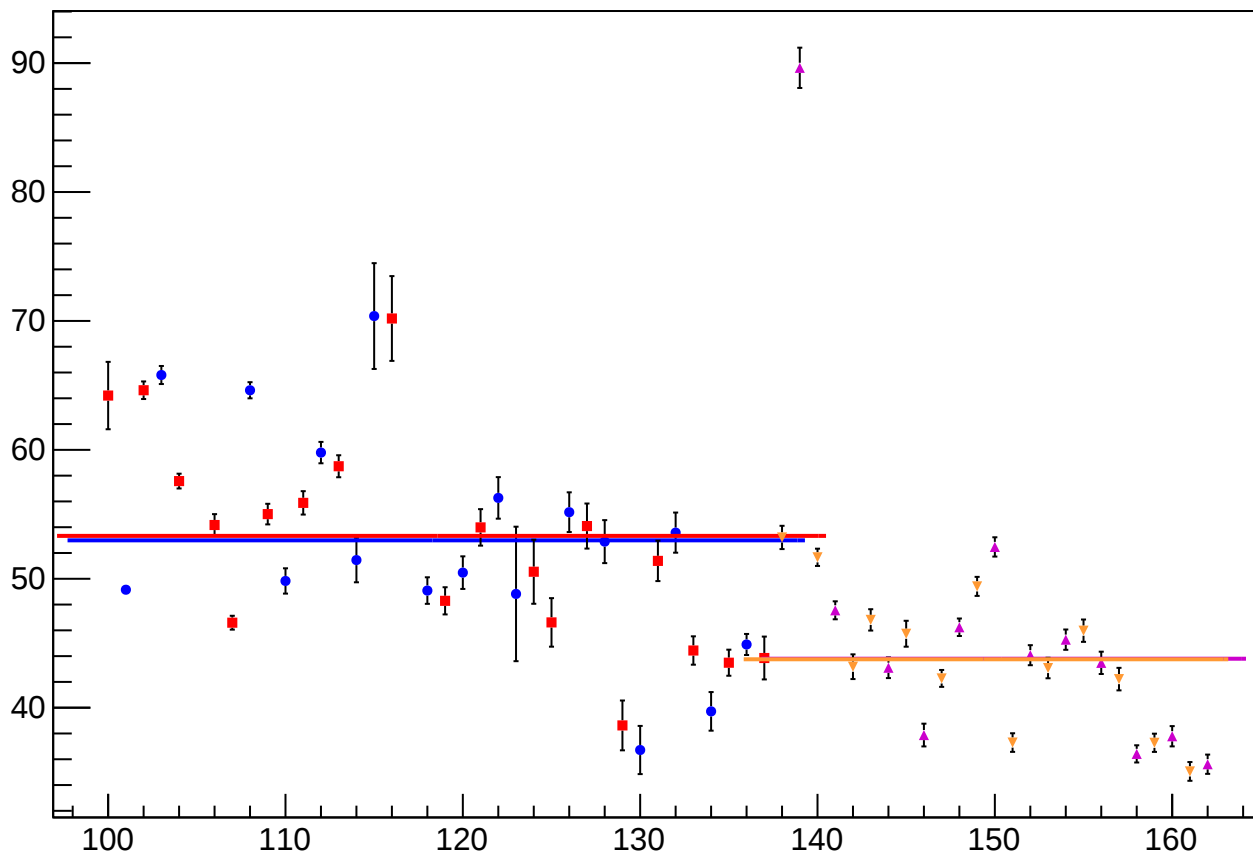
reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 22.393+/-0.308  $\chi^2/\text{NDF}$ :305.7/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 20.511+/-0.312  $\chi^2/\text{NDF}$ :374.5/11

Left: 21.465+/-0.219  $\chi^2/\text{NDF}$ : 698.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 20.511+/-0.312  $\chi^2/\text{NDF}$ :374.5/11  
 Out: 22.393+/-0.308  $\chi^2/\text{NDF}$ :305.7/12  
 All: 21.465+/-0.219  $\chi^2/\text{NDF}$ : 698.6/24

reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $52.981 \pm 0.210$   $\chi^2/\text{NDF}: 1197.8/16$

Left Out:  $43.755 \pm 0.217$   $\chi^2/\text{NDF}: 647.9/12$

Right Out:  $53.328 \pm 0.227$   $\chi^2/\text{NDF}: 872.7/18$

Left In:  $43.799 \pm 0.226$   $\chi^2/\text{NDF}: 1386.4/11$

Left:  $43.776 \pm 0.157$   $\chi^2/\text{NDF}: 2034.3/24$

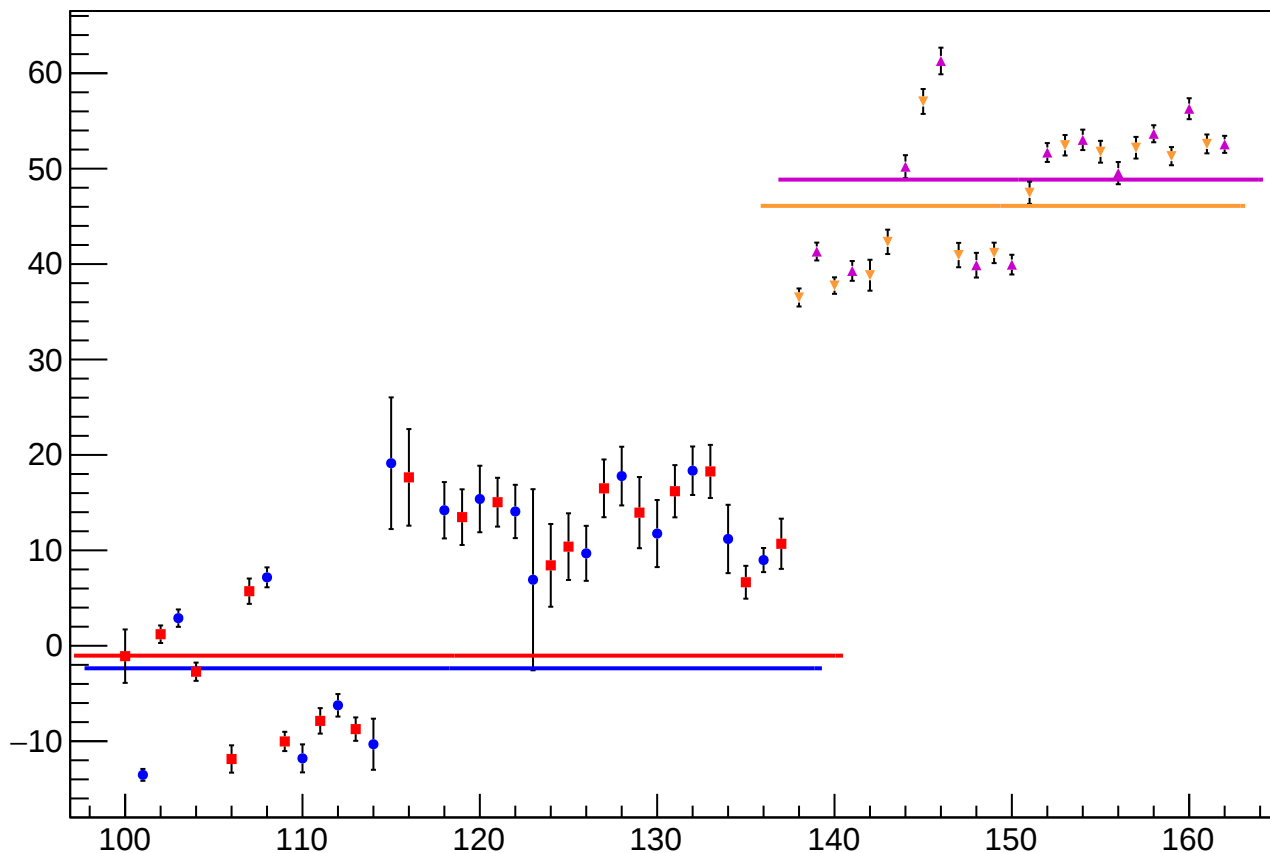
Right:  $53.141 \pm 0.154$   $\chi^2/\text{NDF}: 2071.7/35$

In:  $48.730 \pm 0.154$   $\chi^2/\text{NDF}: 3468.0/28$

Out:  $48.338 \pm 0.157$   $\chi^2/\text{NDF}: 2450.0/31$

All:  $48.538 \pm 0.110$   $\chi^2/\text{NDF}: 5921.1/60$

reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.361 \pm 0.364$   $\chi^2/\text{NDF}$ : 840.8/16

Left Out:  $46.099 \pm 0.304$   $\chi^2/\text{NDF}$ : 496.0/12

Right Out:  $-1.035 \pm 0.377$   $\chi^2/\text{NDF}$ : 507.7/18

Left In:  $48.851 \pm 0.305$   $\chi^2/\text{NDF}$ : 468.4/11

Left:  $47.474 \pm 0.215$   $\chi^2/\text{NDF}$ : 1005.3/24

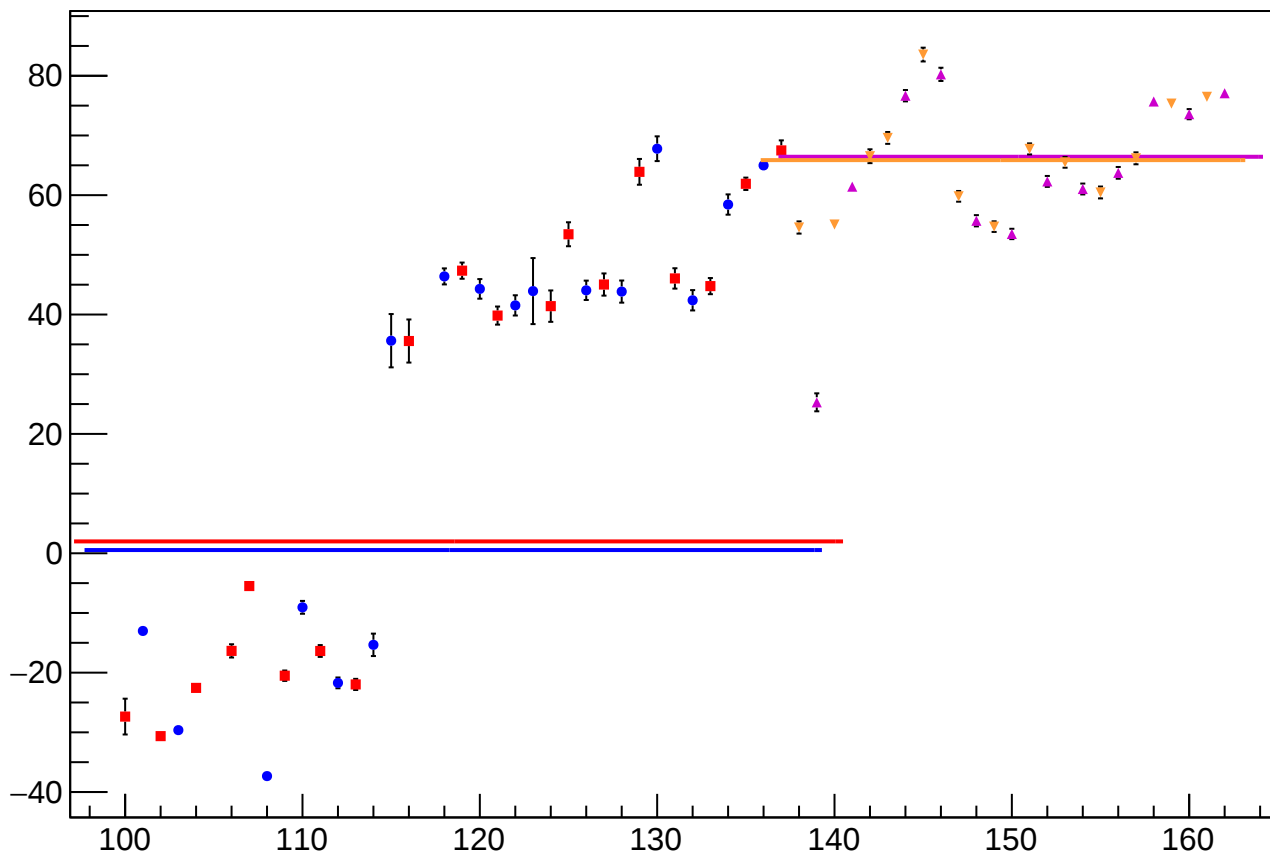
Right:  $-1.721 \pm 0.262$   $\chi^2/\text{NDF}$ : 1355.0/35

In:  $27.746 \pm 0.234$   $\chi^2/\text{NDF}$ : 12957.8/28

Out:  $27.496 \pm 0.237$   $\chi^2/\text{NDF}$ : 10470.0/31

All:  $27.623 \pm 0.166$   $\chi^2/\text{NDF}$ : 23428.3/60

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.541 \pm 0.247$   $\chi^2/\text{NDF}$ : 18423.8/16

Left Out:  $65.870 \pm 0.255$   $\chi^2/\text{NDF}$ : 1133.9/12

Right Out:  $1.990 \pm 0.267$   $\chi^2/\text{NDF}$ : 15476.7/18

Left In:  $66.433 \pm 0.261$   $\chi^2/\text{NDF}$ : 1899.7/11

Left:  $66.146 \pm 0.182$   $\chi^2/\text{NDF}$ : 3036.0/24

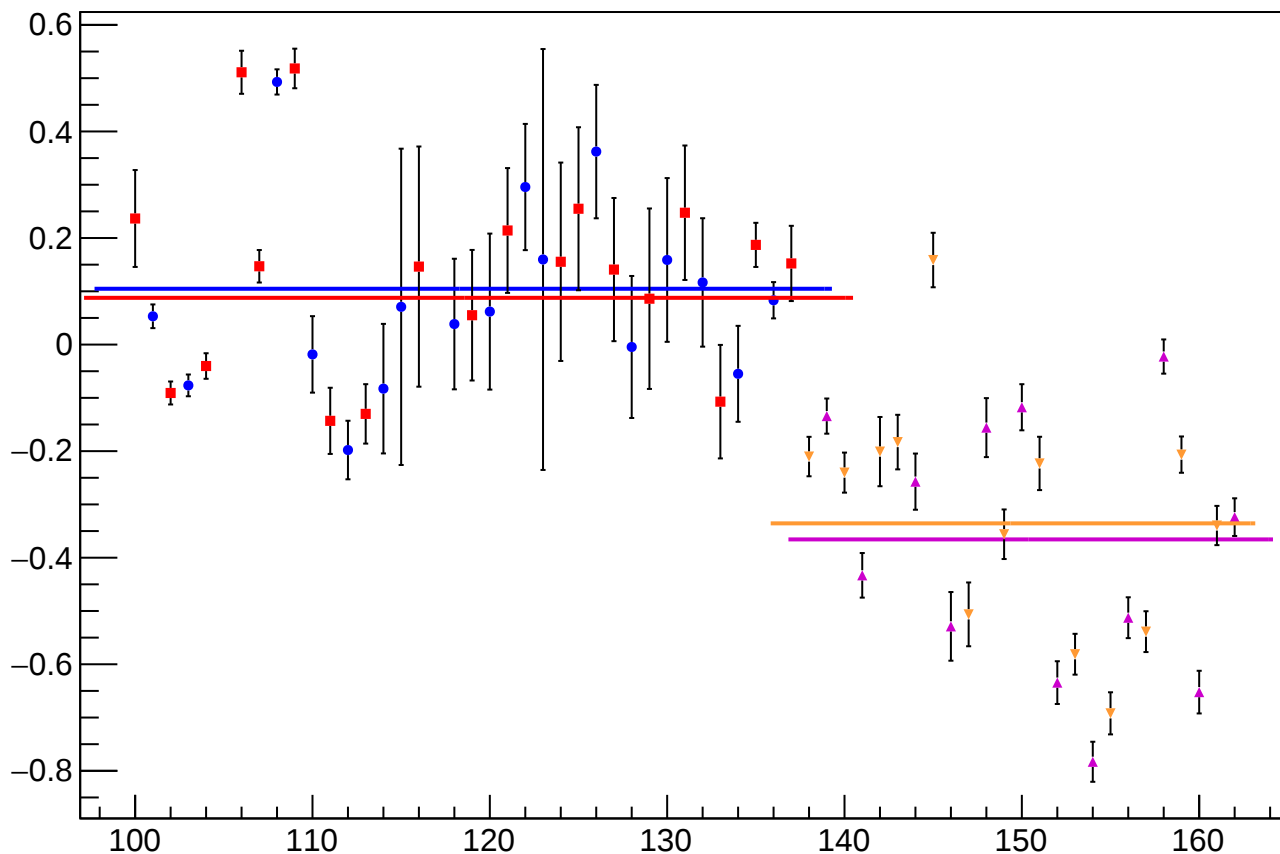
Right:  $1.210 \pm 0.181$   $\chi^2/\text{NDF}$ : 33916.4/35

In:  $31.686 \pm 0.179$   $\chi^2/\text{NDF}$ : 54041.4/28

Out:  $35.324 \pm 0.184$   $\chi^2/\text{NDF}$ : 46589.1/31

All:  $33.454 \pm 0.128$   $\chi^2/\text{NDF}$ : 100830.9/60

reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}: 400.7/16$

Left Out:  $-0.336 \pm 0.012$   $\chi^2/\text{NDF}: 302.9/12$

Right Out:  $0.088 \pm 0.011$   $\chi^2/\text{NDF}: 391.0/18$

Left In:  $-0.366 \pm 0.012$   $\chi^2/\text{NDF}: 459.5/11$

Left:  $-0.351 \pm 0.008$   $\chi^2/\text{NDF}: 765.7/24$

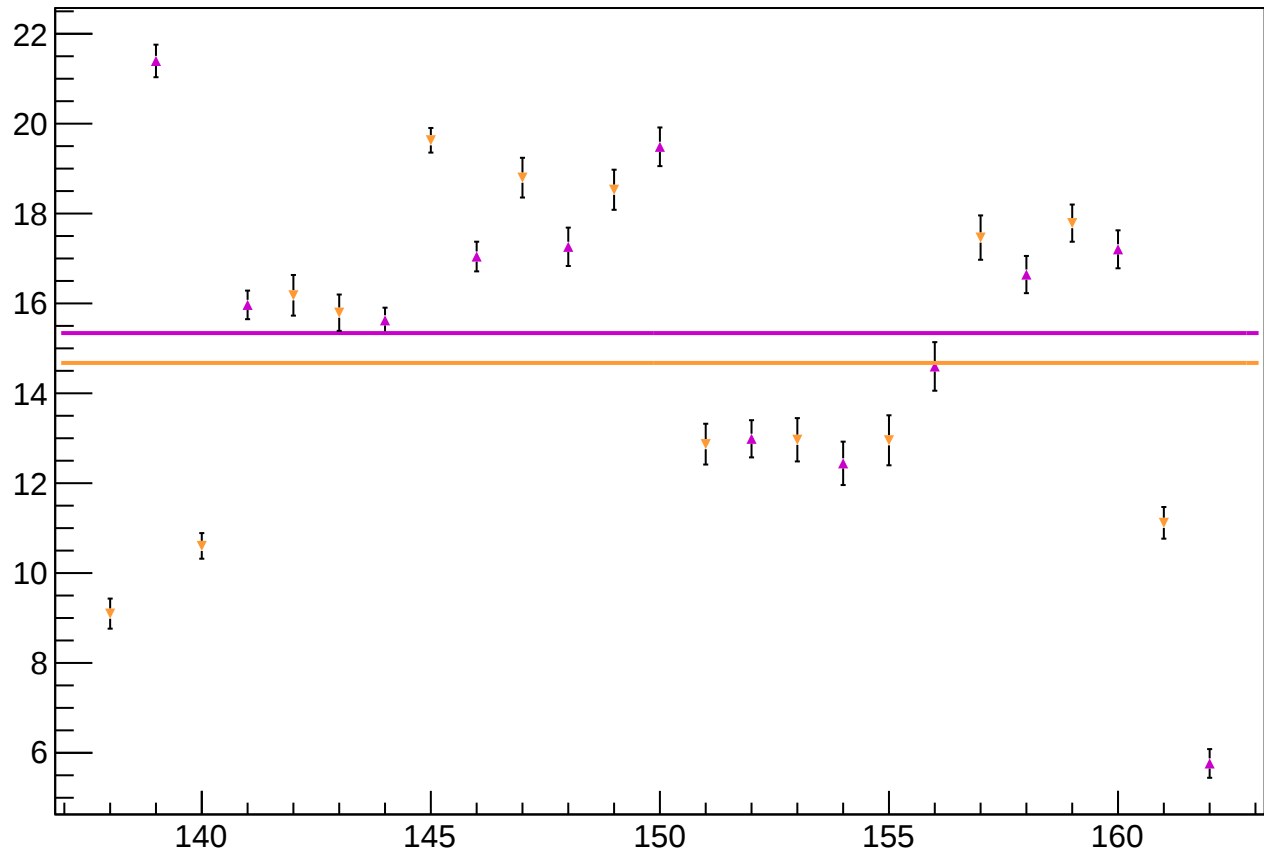
Right:  $0.096 \pm 0.008$   $\chi^2/\text{NDF}: 792.9/35$

In:  $-0.117 \pm 0.008$   $\chi^2/\text{NDF}: 1719.1/28$

Out:  $-0.109 \pm 0.008$   $\chi^2/\text{NDF}: 1382.2/31$

All:  $-0.113 \pm 0.006$   $\chi^2/\text{NDF}: 3101.8/60$

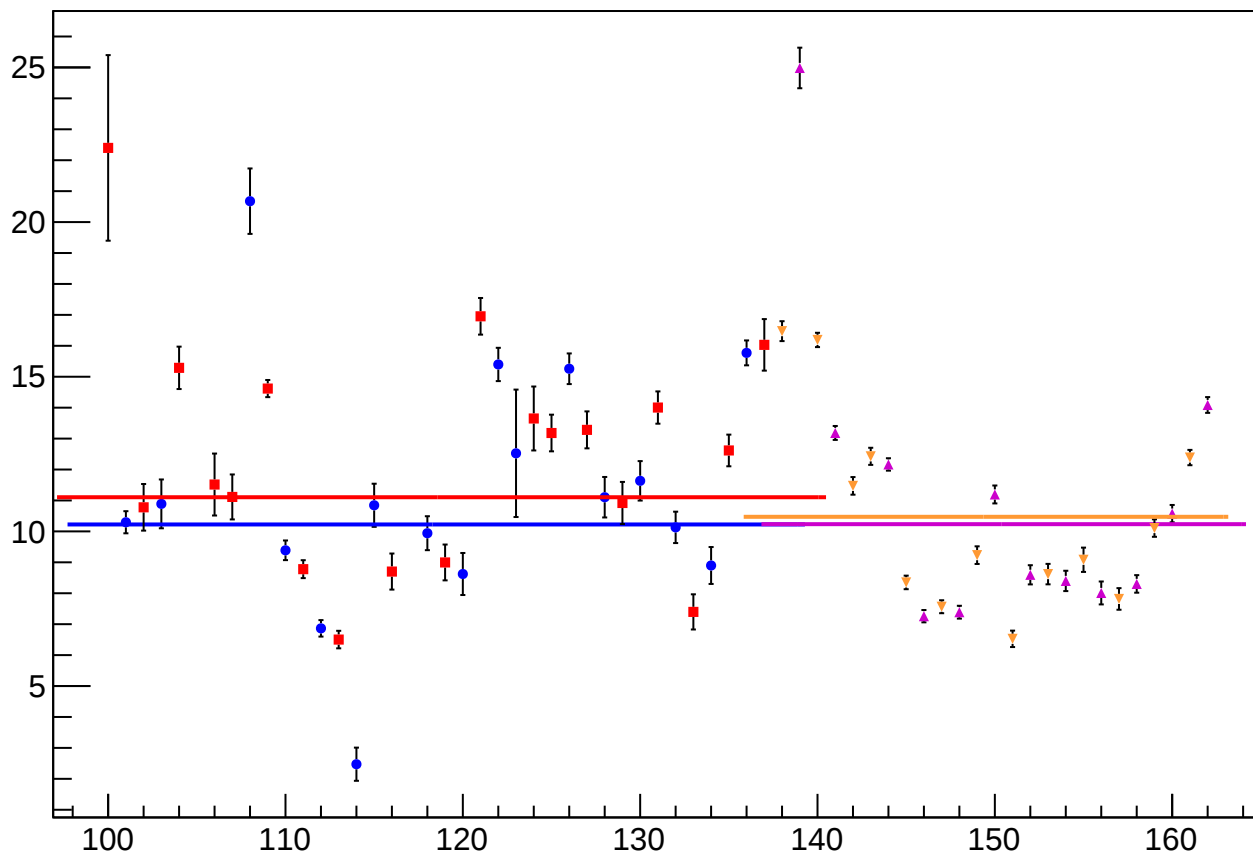
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 14.676+/-0.108  $\chi^2/\text{NDF}$ :1216.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 15.340+/-0.108  $\chi^2/\text{NDF}$ :1423.0/11

Left: 15.006+/-0.076  $\chi^2/\text{NDF}$ : 2658.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 15.340+/-0.108  $\chi^2/\text{NDF}$ :1423.0/11  
 Out: 14.676+/-0.108  $\chi^2/\text{NDF}$ :1216.9/12  
 All: 15.006+/-0.076  $\chi^2/\text{NDF}$ : 2658.8/24

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $10.224 \pm 0.119$   $\chi^2/\text{NDF}$ : 877.6/16

Left Out:  $10.472 \pm 0.075$   $\chi^2/\text{NDF}$ : 1709.9/12

Right Out:  $11.104 \pm 0.116$   $\chi^2/\text{NDF}$ : 817.2/18

Left In:  $10.233 \pm 0.076$   $\chi^2/\text{NDF}$ : 1563.3/11

Left:  $10.353 \pm 0.053$   $\chi^2/\text{NDF}$ : 3278.1/24

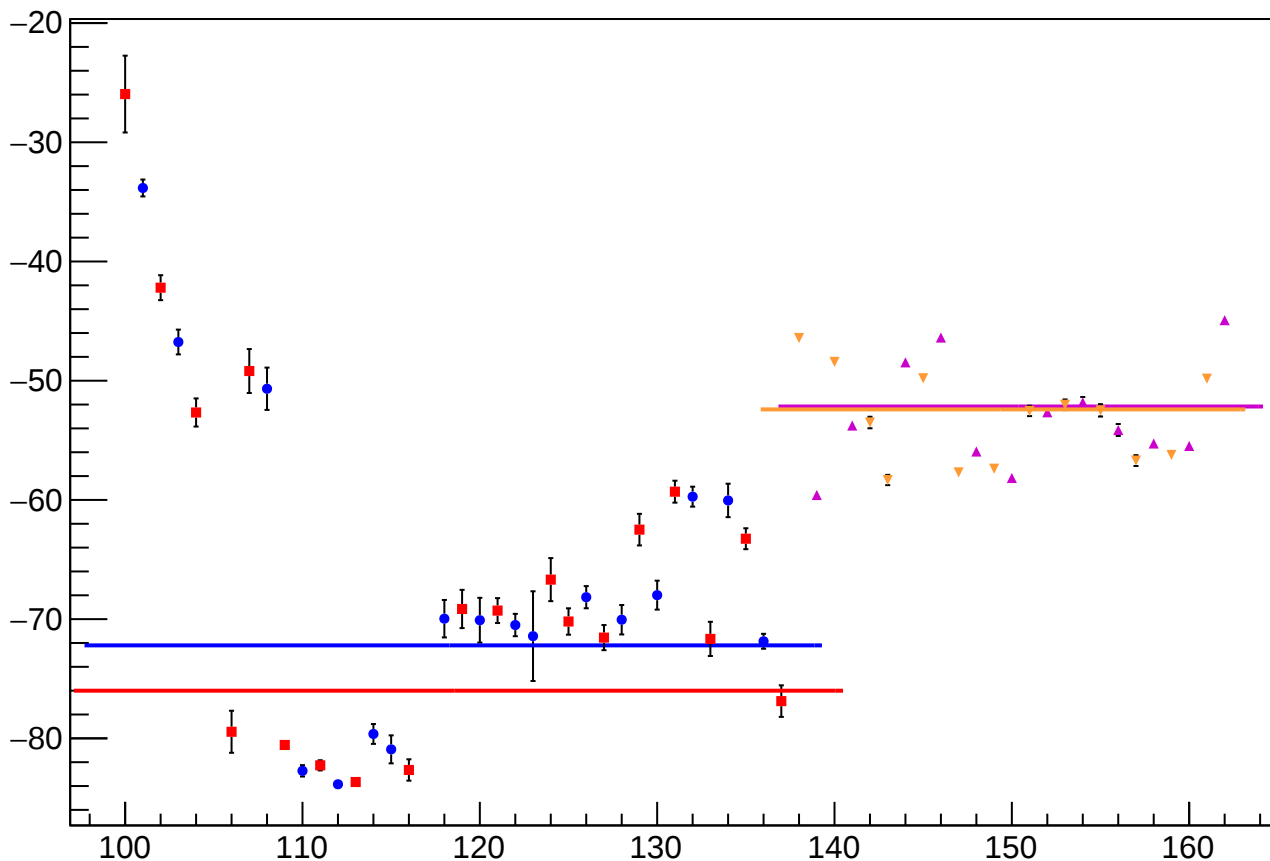
Right:  $10.673 \pm 0.083$   $\chi^2/\text{NDF}$ : 1722.7/35

In:  $10.231 \pm 0.064$   $\chi^2/\text{NDF}$ : 2440.8/28

Out:  $10.658 \pm 0.063$   $\chi^2/\text{NDF}$ : 2547.9/31

All:  $10.447 \pm 0.045$   $\chi^2/\text{NDF}$ : 5011.4/60

reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-72.201 \pm 0.198$   $\chi^2/\text{NDF}$ : 5566.9/16

Left Out:  $-52.407 \pm 0.108$   $\chi^2/\text{NDF}$ : 1271.8/12

Right Out:  $-76.003 \pm 0.181$   $\chi^2/\text{NDF}$ : 3465.4/18

Left In:  $-52.163 \pm 0.107$   $\chi^2/\text{NDF}$ : 1885.3/11

Left:  $-52.283 \pm 0.076$   $\chi^2/\text{NDF}$ : 3159.7/24

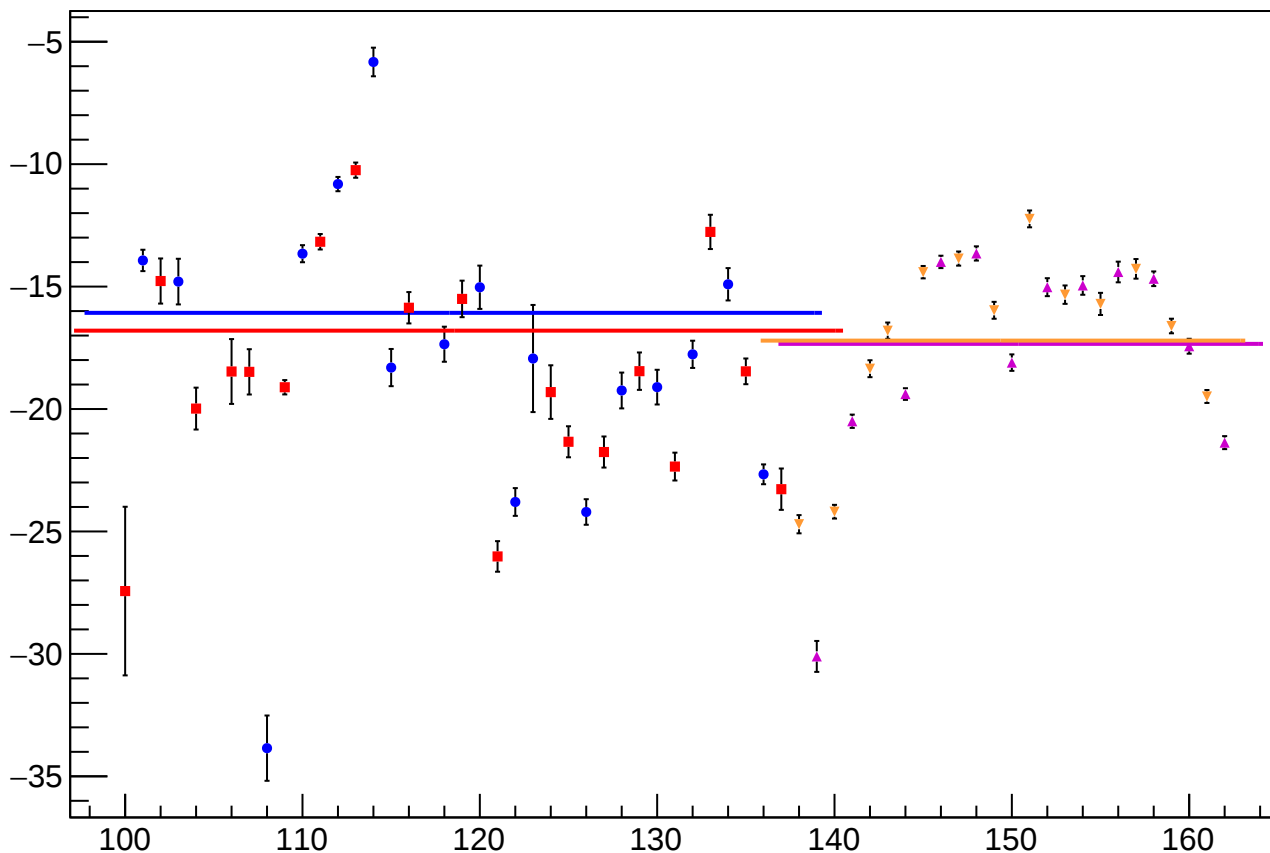
Right:  $-74.270 \pm 0.133$   $\chi^2/\text{NDF}$ : 9233.6/35

In:  $-56.682 \pm 0.094$   $\chi^2/\text{NDF}$ : 15408.9/28

Out:  $-58.602 \pm 0.093$   $\chi^2/\text{NDF}$ : 17279.5/31

All:  $-57.654 \pm 0.066$   $\chi^2/\text{NDF}$ : 32900.0/60

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

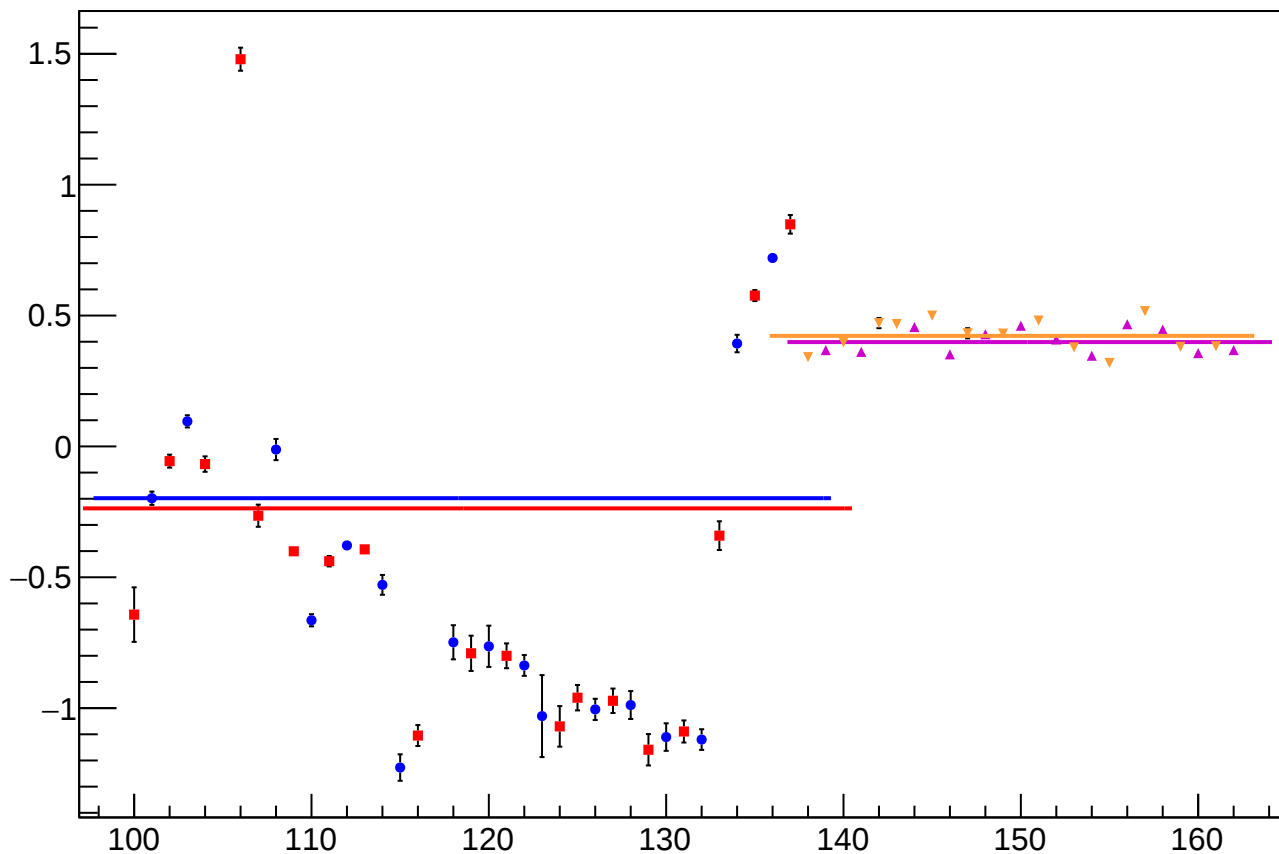


Right In:  $-16.072 \pm 0.132$   $\chi^2/\text{NDF}: 1640.9/16$   
 Left Out:  $-17.206 \pm 0.089$   $\chi^2/\text{NDF}: 1686.1/12$   
 Right Out:  $-16.799 \pm 0.128$   $\chi^2/\text{NDF}: 1215.8/18$   
 Left In:  $-17.339 \pm 0.089$   $\chi^2/\text{NDF}: 1396.3/11$

Left:  $-17.273 \pm 0.063$   $\chi^2/\text{NDF}: 3083.4/24$   
 Right:  $-16.447 \pm 0.092$   $\chi^2/\text{NDF}: 2872.2/35$   
 In:  $-16.943 \pm 0.074$   $\chi^2/\text{NDF}: 3100.4/28$   
 Out:  $-17.073 \pm 0.073$   $\chi^2/\text{NDF}: 2908.6/31$

All:  $-17.009 \pm 0.052$   $\chi^2/\text{NDF}: 6010.6/60$

reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.198 \pm 0.008$   $\chi^2/\text{NDF}$ : 6338.8/16

Left Out:  $0.422 \pm 0.004$   $\chi^2/\text{NDF}$ : 201.8/12

Right Out:  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 6221.9/18

Left In:  $0.399 \pm 0.004$   $\chi^2/\text{NDF}$ : 114.1/11

Left:  $0.410 \pm 0.003$   $\chi^2/\text{NDF}$ : 331.7/24

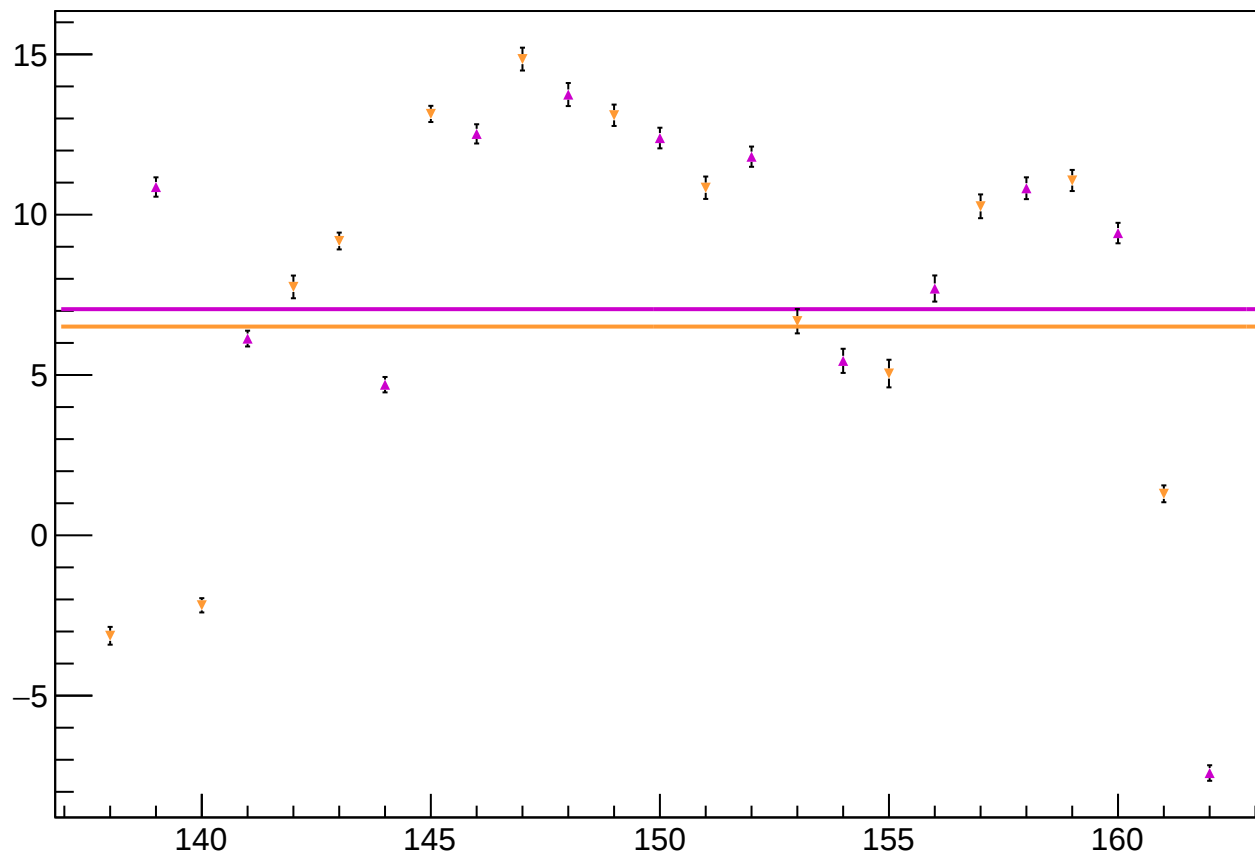
Right:  $-0.218 \pm 0.005$   $\chi^2/\text{NDF}$ : 12574.6/35

In:  $0.257 \pm 0.004$   $\chi^2/\text{NDF}$ : 11228.7/28

Out:  $0.251 \pm 0.004$   $\chi^2/\text{NDF}$ : 12679.2/31

All:  $0.254 \pm 0.003$   $\chi^2/\text{NDF}$ : 23909.1/60

reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.510 $\pm$ 0.085  $\chi^2/\text{NDF}$ :5326.9/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.053 $\pm$ 0.087  $\chi^2/\text{NDF}$ :5212.0/11

Left: 6.774 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 10558.8/24

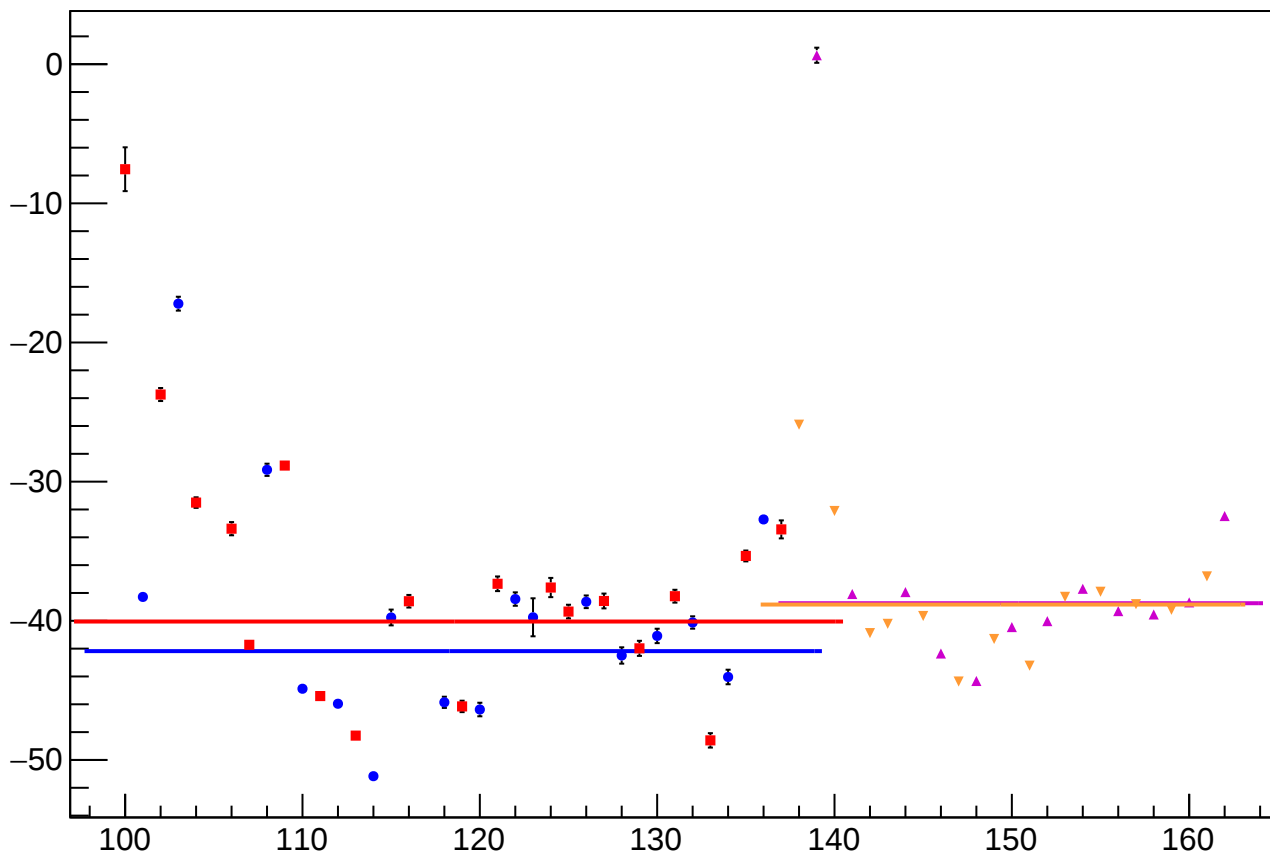
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 7.053 $\pm$ 0.087  $\chi^2/\text{NDF}$ :5212.0/11

Out: 6.510 $\pm$ 0.085  $\chi^2/\text{NDF}$ :5326.9/12

All: 6.774 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 10558.8/24

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-42.179 \pm 0.078$   $\chi^2/\text{NDF}$ : 6573.8/16

Left Out:  $-38.832 \pm 0.059$   $\chi^2/\text{NDF}$ : 5629.9/12

Right Out:  $-40.052 \pm 0.073$   $\chi^2/\text{NDF}$ : 11313.5/18

Left In:  $-38.736 \pm 0.061$   $\chi^2/\text{NDF}$ : 7820.6/11

Left:  $-38.786 \pm 0.043$   $\chi^2/\text{NDF}$ : 13451.7/24

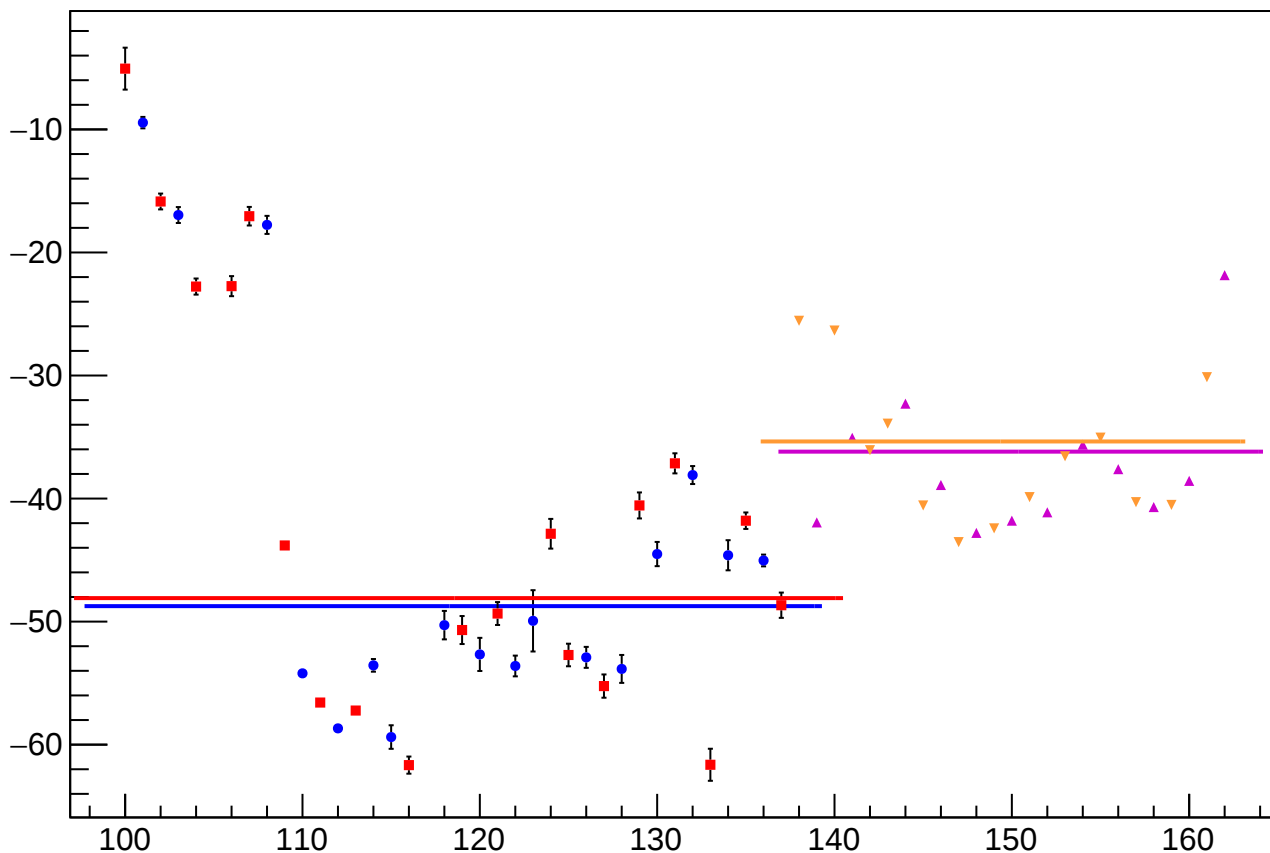
Right:  $-41.045 \pm 0.053$   $\chi^2/\text{NDF}$ : 18285.9/35

In:  $-40.057 \pm 0.048$   $\chi^2/\text{NDF}$ : 15602.0/28

Out:  $-39.315 \pm 0.046$   $\chi^2/\text{NDF}$ : 17113.2/31

All:  $-39.667 \pm 0.033$   $\chi^2/\text{NDF}$ : 32839.8/60

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -48.743 $\pm$ 0.124  $\chi^2$ /NDF: 14658.5/16

Left Out: -35.359 $\pm$ 0.085  $\chi^2$ /NDF: 5148.9/12

Right Out: -48.091 $\pm$ 0.107  $\chi^2$ /NDF: 11731.5/18

Left In: -36.187 $\pm$ 0.085  $\chi^2$ /NDF: 5706.6/11

Left: -35.769 $\pm$ 0.060  $\chi^2$ /NDF: 10902.9/24

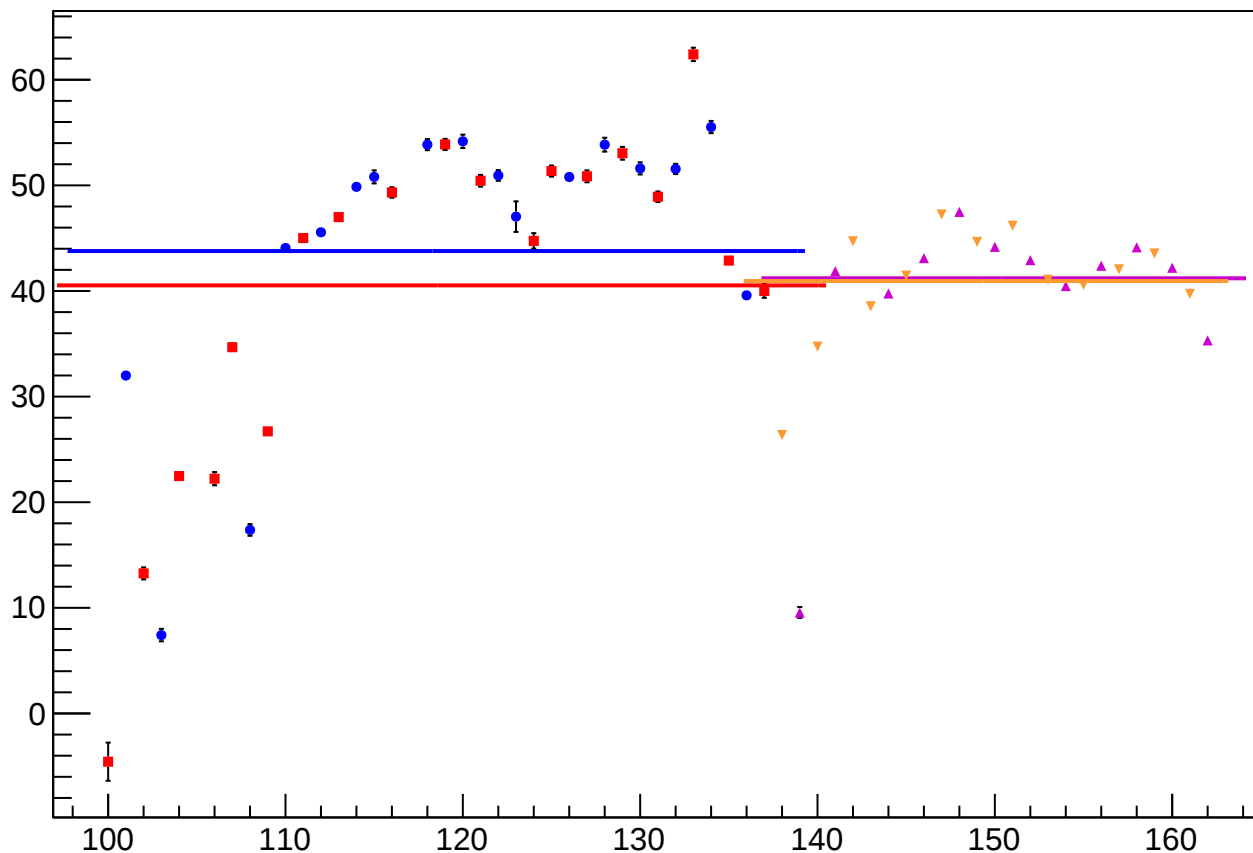
Right: -48.369 $\pm$ 0.081  $\chi^2$ /NDF: 26405.8/35

In: -40.210 $\pm$ 0.070  $\chi^2$ /NDF: 27284.9/28

Out: -40.240 $\pm$ 0.066  $\chi^2$ /NDF: 25575.5/31

All: -40.226 $\pm$ 0.048  $\chi^2$ /NDF: 52860.4/60

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $43.782 \pm 0.087$   $\chi^2/\text{NDF}: 10638.7/16$

Left Out:  $40.943 \pm 0.070$   $\chi^2/\text{NDF}: 4823.1/12$

Right Out:  $40.530 \pm 0.080$   $\chi^2/\text{NDF}: 17580.7/18$

Left In:  $41.201 \pm 0.072$   $\chi^2/\text{NDF}: 5637.4/11$

Left:  $41.069 \pm 0.050$   $\chi^2/\text{NDF}: 10467.1/24$

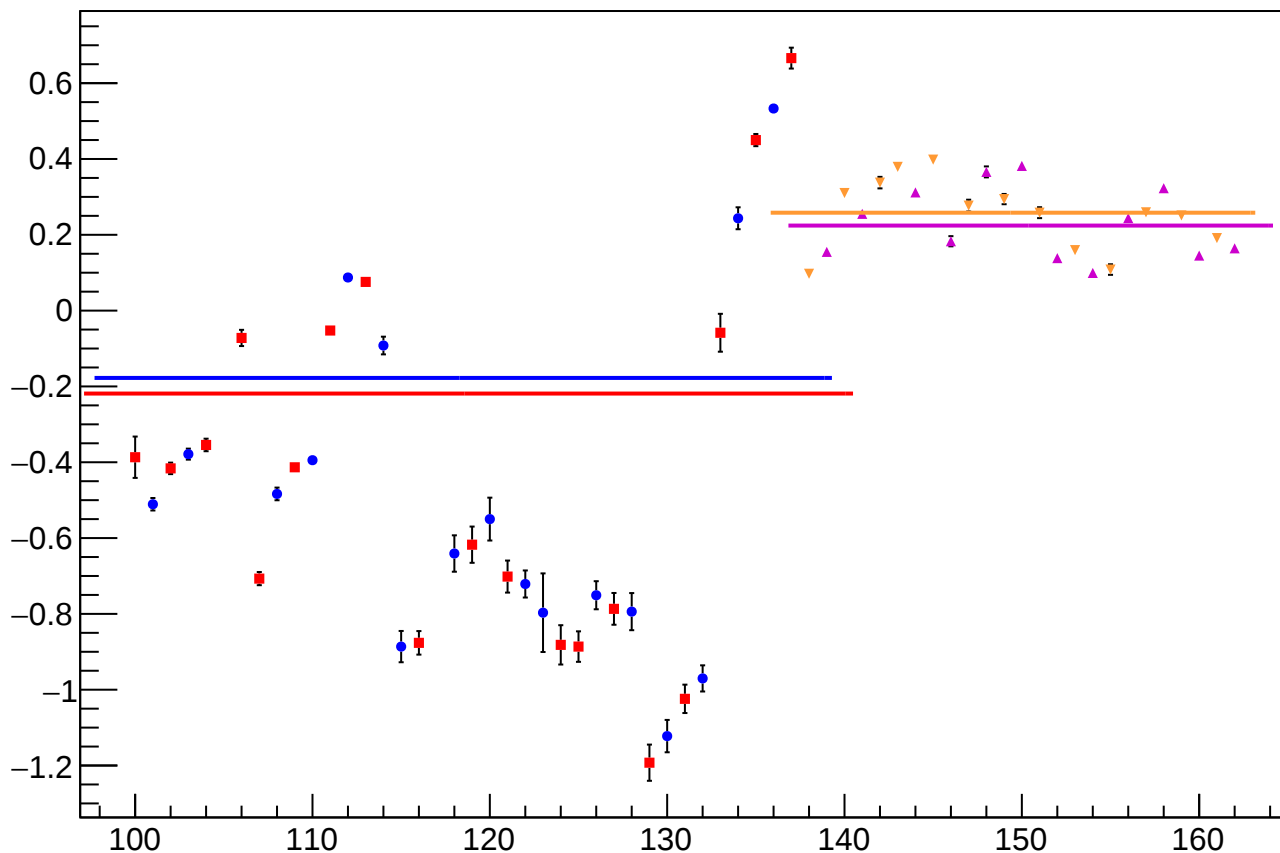
Right:  $42.031 \pm 0.059$   $\chi^2/\text{NDF}: 28978.3/35$

In:  $42.249 \pm 0.055$   $\chi^2/\text{NDF}: 16803.7/28$

Out:  $40.765 \pm 0.053$   $\chi^2/\text{NDF}: 22418.9/31$

All:  $41.472 \pm 0.038$   $\chi^2/\text{NDF}: 39600.7/60$

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7375.8/16

Left Out:  $0.258 \pm 0.003$   $\chi^2/\text{NDF}$ : 764.1/12

Right Out:  $-0.219 \pm 0.004$   $\chi^2/\text{NDF}$ : 7470.0/18

Left In:  $0.224 \pm 0.003$   $\chi^2/\text{NDF}$ : 694.2/11

Left:  $0.241 \pm 0.002$   $\chi^2/\text{NDF}$ : 1510.1/24

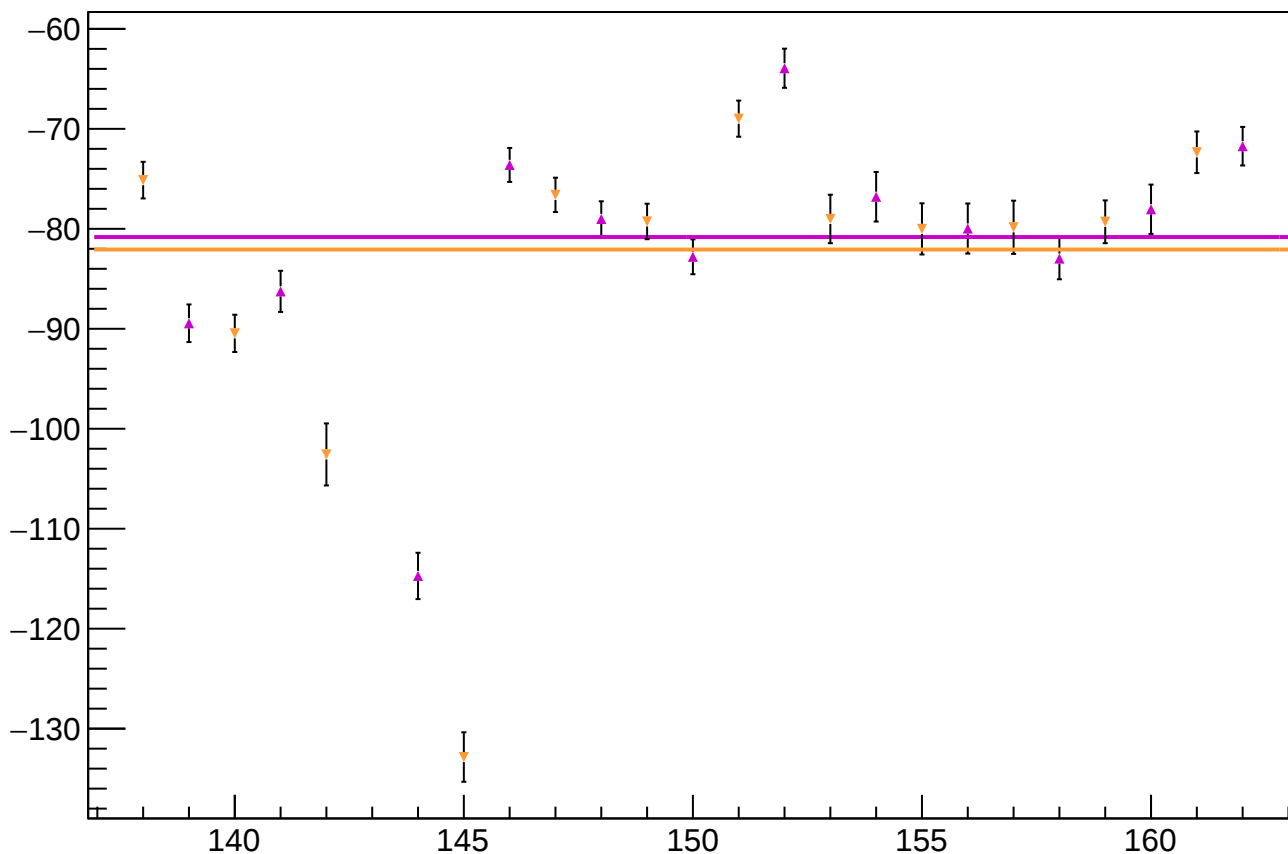
Right:  $-0.201 \pm 0.003$   $\chi^2/\text{NDF}$ : 14886.5/35

In:  $0.094 \pm 0.003$   $\chi^2/\text{NDF}$ : 12736.8/28

Out:  $0.080 \pm 0.003$   $\chi^2/\text{NDF}$ : 15942.1/31

All:  $0.087 \pm 0.002$   $\chi^2/\text{NDF}$ : 28692.3/60

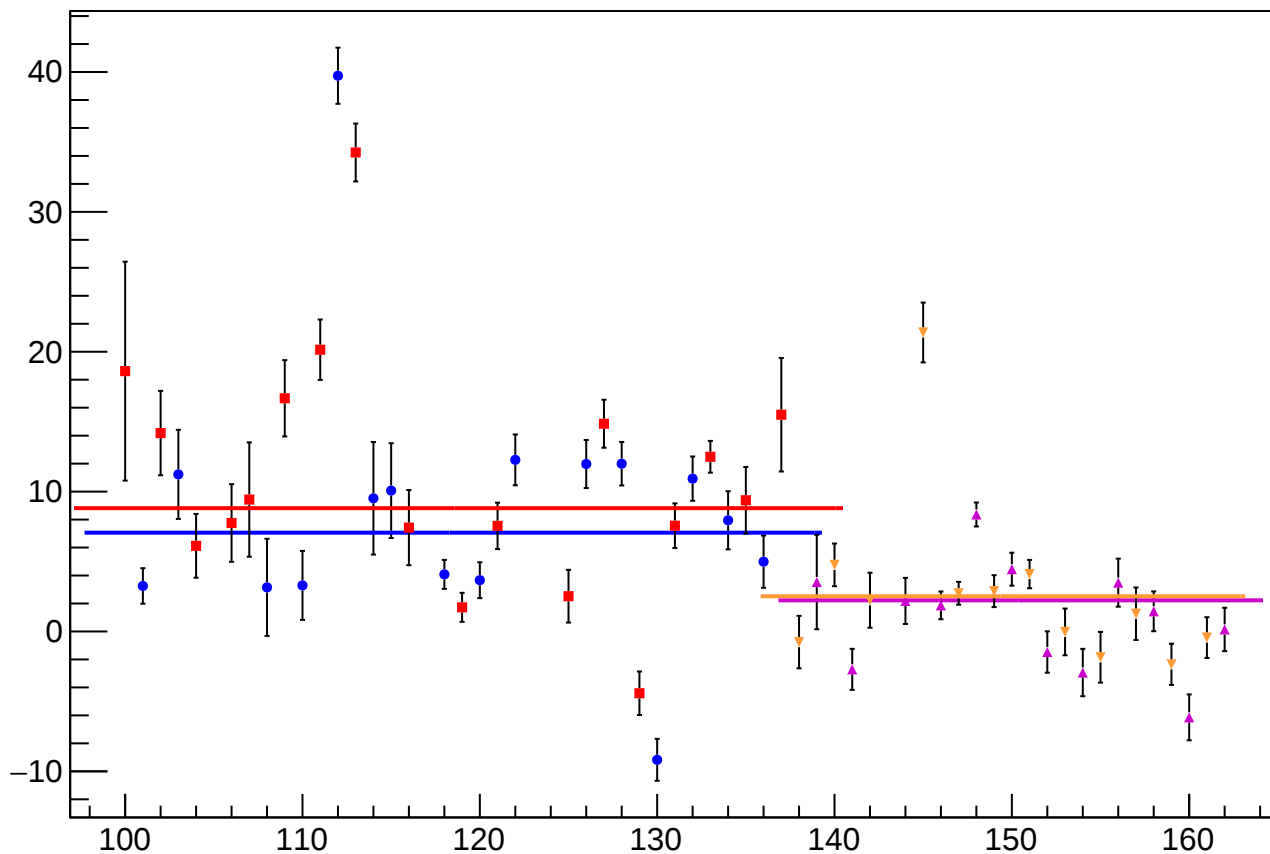
reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -82.073+/-0.605  $\chi^2/\text{NDF}$ :590.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -80.822+/-0.582  $\chi^2/\text{NDF}$ :364.0/11

Left: -81.424+/-0.420  $\chi^2/\text{NDF}$ : 956.6/23  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -80.822+/-0.582  $\chi^2/\text{NDF}$ :364.0/11  
 Out: -82.073+/-0.605  $\chi^2/\text{NDF}$ :590.3/11  
 All: -81.424+/-0.420  $\chi^2/\text{NDF}$ : 956.6/23

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.063 $\pm$ 0.434  $\chi^2$ /NDF: 446.9/15

Left Out: 2.515 $\pm$ 0.398  $\chi^2$ /NDF:109.2/11

Right Out: 8.816 $\pm$ 0.449  $\chi^2$ /NDF: 350.4/17

Left In: 2.225 $\pm$ 0.394  $\chi^2$ /NDF:110.7/11

Left: 2.369 $\pm$ 0.280  $\chi^2$ /NDF: 220.2/23

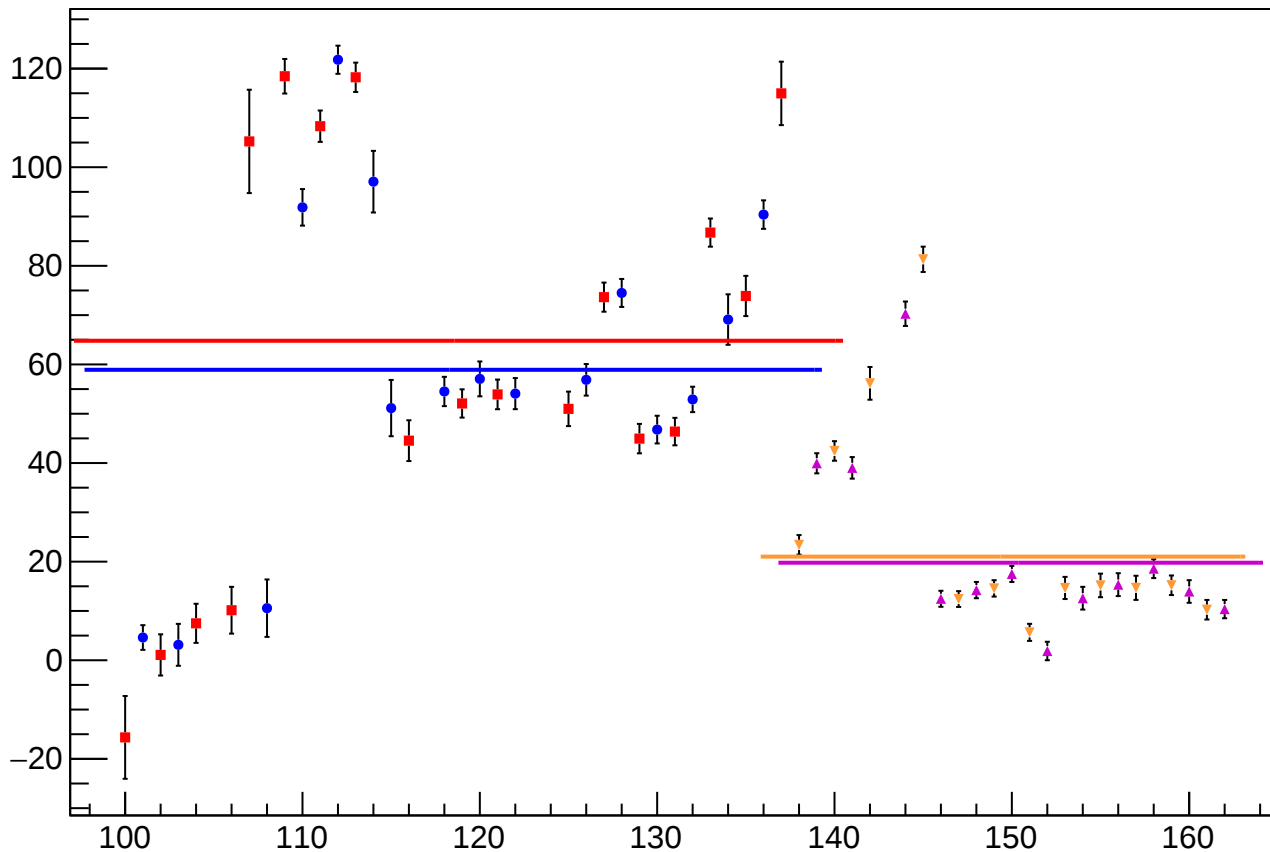
Right: 7.909 $\pm$ 0.312  $\chi^2$ /NDF: 805.1/33

In: 4.413 $\pm$ 0.292  $\chi^2$ /NDF:625.8/27

Out: 5.286 $\pm$ 0.298  $\chi^2$ /NDF:569.9/29

All: 4.840 $\pm$ 0.208  $\chi^2$ /NDF: 1200.1/57

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 58.913 ± 0.831  $\chi^2/\text{NDF}$ : 1496.7/15

Left Out: 21.022 ± 0.589  $\chi^2/\text{NDF}$ : 962.6/11

Right Out: 64.803 ± 0.840  $\chi^2/\text{NDF}$ : 1718.2/17

Left In: 19.781 ± 0.564  $\chi^2/\text{NDF}$ : 761.1/11

Left: 20.375 ± 0.407  $\chi^2/\text{NDF}$ : 1726.0/23

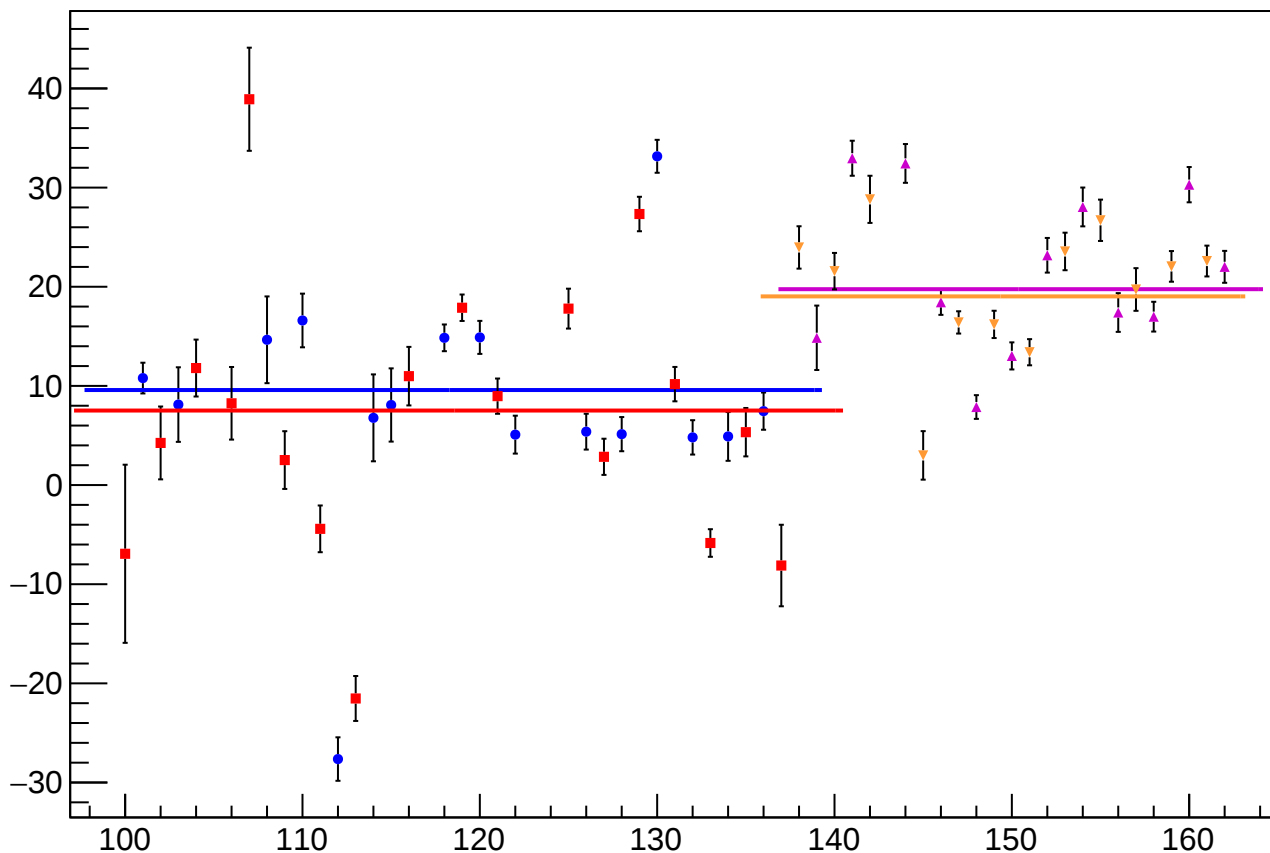
Right: 61.827 ± 0.591  $\chi^2/\text{NDF}$ : 3239.7/33

In: 32.111 ± 0.467  $\chi^2/\text{NDF}$ : 3775.1/27

Out: 35.443 ± 0.482  $\chi^2/\text{NDF}$ : 4501.4/29

All: 33.722 ± 0.335  $\chi^2/\text{NDF}$ : 8301.1/57

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $9.583 \pm 0.501$   $\chi^2/\text{NDF}: 554.4/15$

Left Out:  $19.028 \pm 0.482$   $\chi^2/\text{NDF}: 123.5/11$

Right Out:  $7.516 \pm 0.516$   $\chi^2/\text{NDF}: 569.8/17$

Left In:  $19.754 \pm 0.470$   $\chi^2/\text{NDF}: 287.9/11$

Left:  $19.400 \pm 0.336$   $\chi^2/\text{NDF}: 412.6/23$

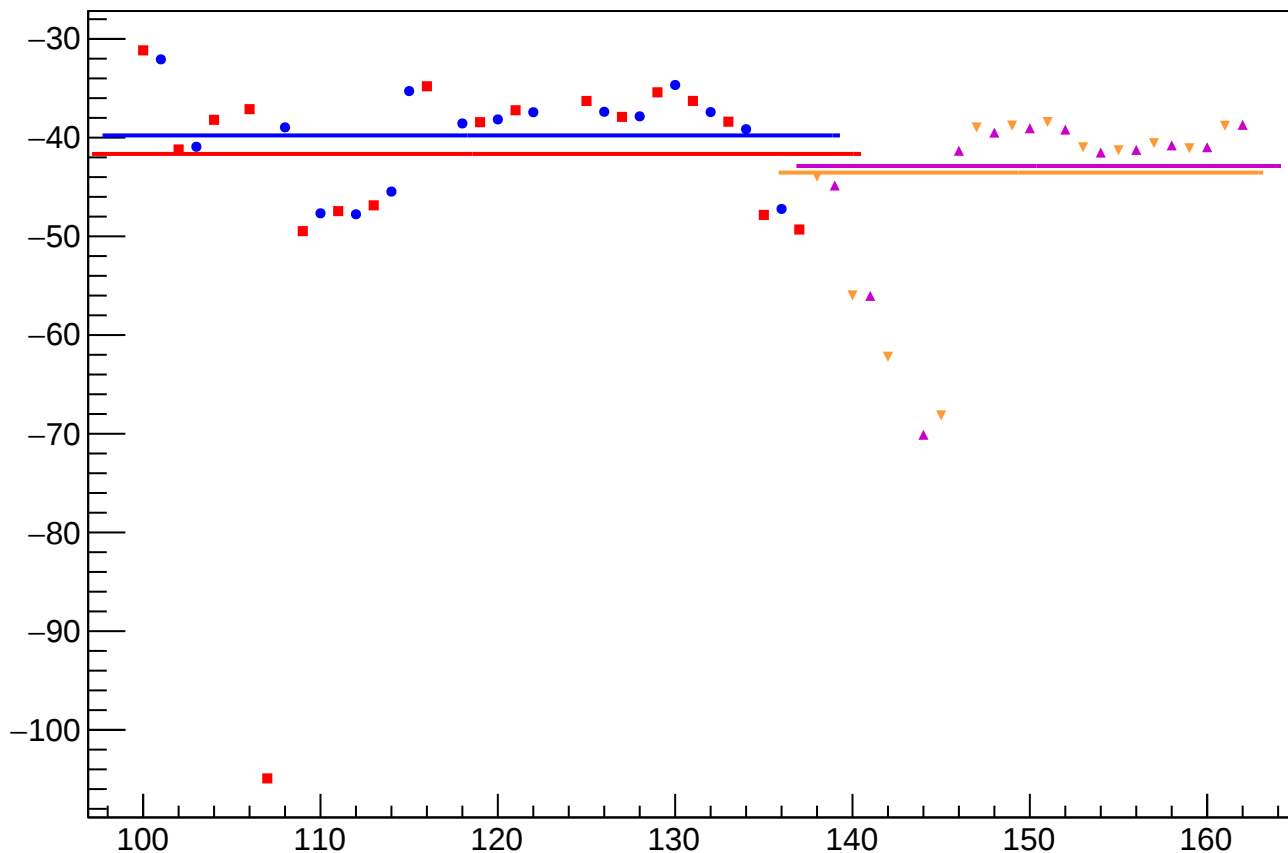
Right:  $8.579 \pm 0.359$   $\chi^2/\text{NDF}: 1132.5/33$

In:  $14.994 \pm 0.343$   $\chi^2/\text{NDF}: 1061.5/27$

Out:  $13.664 \pm 0.352$   $\chi^2/\text{NDF}: 959.5/29$

All:  $14.347 \pm 0.246$   $\chi^2/\text{NDF}: 2028.3/57$

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.777 \pm 0.031$   $\chi^2/\text{NDF}$ : 26158.0/15

Left Out:  $-43.542 \pm 0.023$   $\chi^2/\text{NDF}$ : 119796.8/11

Right Out:  $-41.651 \pm 0.031$   $\chi^2/\text{NDF}$ : 94457.5/17

Left In:  $-42.874 \pm 0.022$   $\chi^2/\text{NDF}$ : 99123.2/11

Left:  $-43.190 \pm 0.016$   $\chi^2/\text{NDF}$ : 219349.8/23

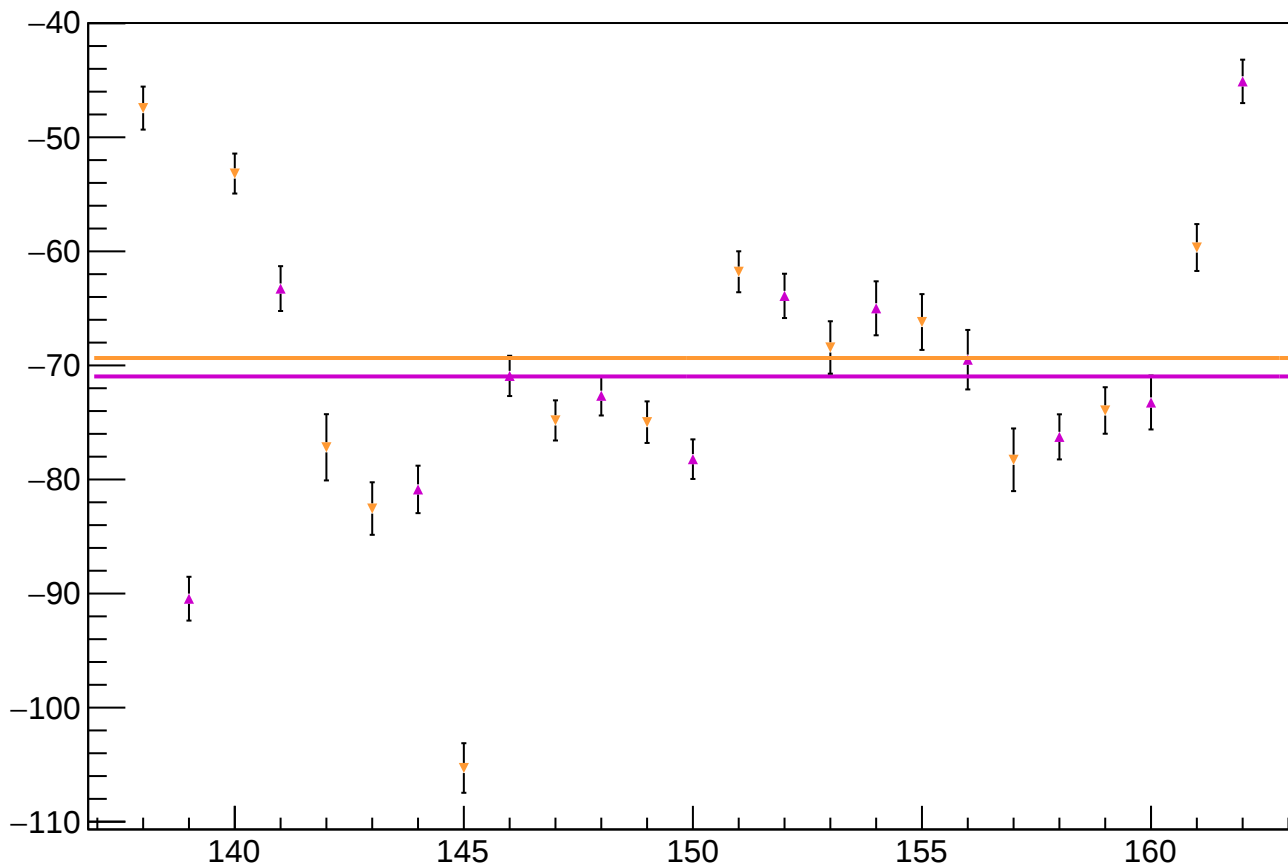
Right:  $-40.710 \pm 0.022$   $\chi^2/\text{NDF}$ : 122427.7/33

In:  $-41.828 \pm 0.018$   $\chi^2/\text{NDF}$ : 131864.4/27

Out:  $-42.861 \pm 0.019$   $\chi^2/\text{NDF}$ : 216607.4/29

All:  $-42.326 \pm 0.013$   $\chi^2/\text{NDF}$ : 350048.5/57

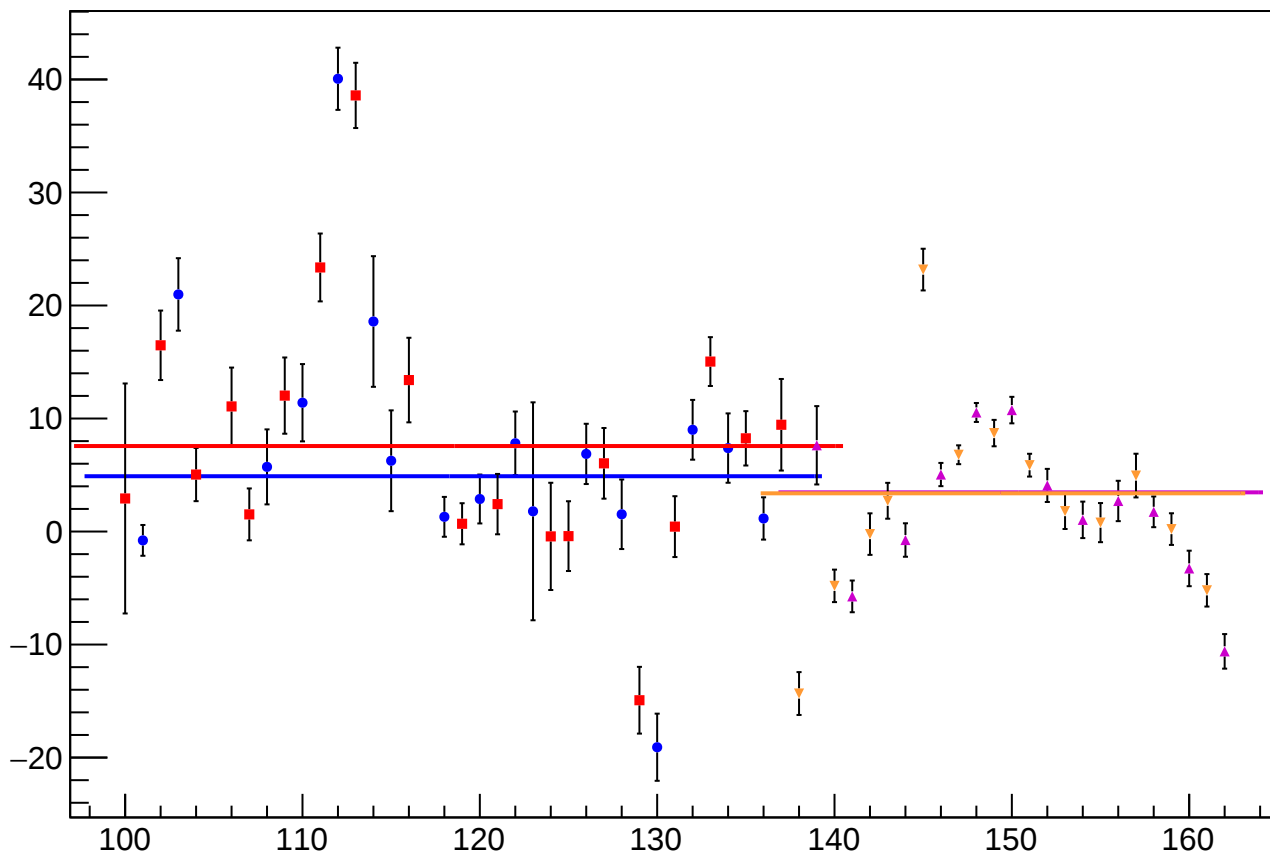
reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-69.350 \pm 0.575$   $\chi^2/\text{NDF}: 610.4/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-70.967 \pm 0.573$   $\chi^2/\text{NDF}: 372.2/11$

Left:  $-70.161 \pm 0.406$   $\chi^2/\text{NDF}: 986.5/24$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-70.967 \pm 0.573$   $\chi^2/\text{NDF}: 372.2/11$   
 Out:  $-69.350 \pm 0.575$   $\chi^2/\text{NDF}: 610.4/12$   
 All:  $-70.161 \pm 0.406$   $\chi^2/\text{NDF}: 986.5/24$

reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.894 \pm 0.621$   $\chi^2/\text{NDF}$ : 295.4/16

Left Out:  $3.381 \pm 0.381$   $\chi^2/\text{NDF}$ : 327.3/12

Right Out:  $7.565 \pm 0.652$   $\chi^2/\text{NDF}$ : 270.2/18

Left In:  $3.467 \pm 0.387$   $\chi^2/\text{NDF}$ : 271.6/11

Left:  $3.424 \pm 0.271$   $\chi^2/\text{NDF}$ : 598.9/24

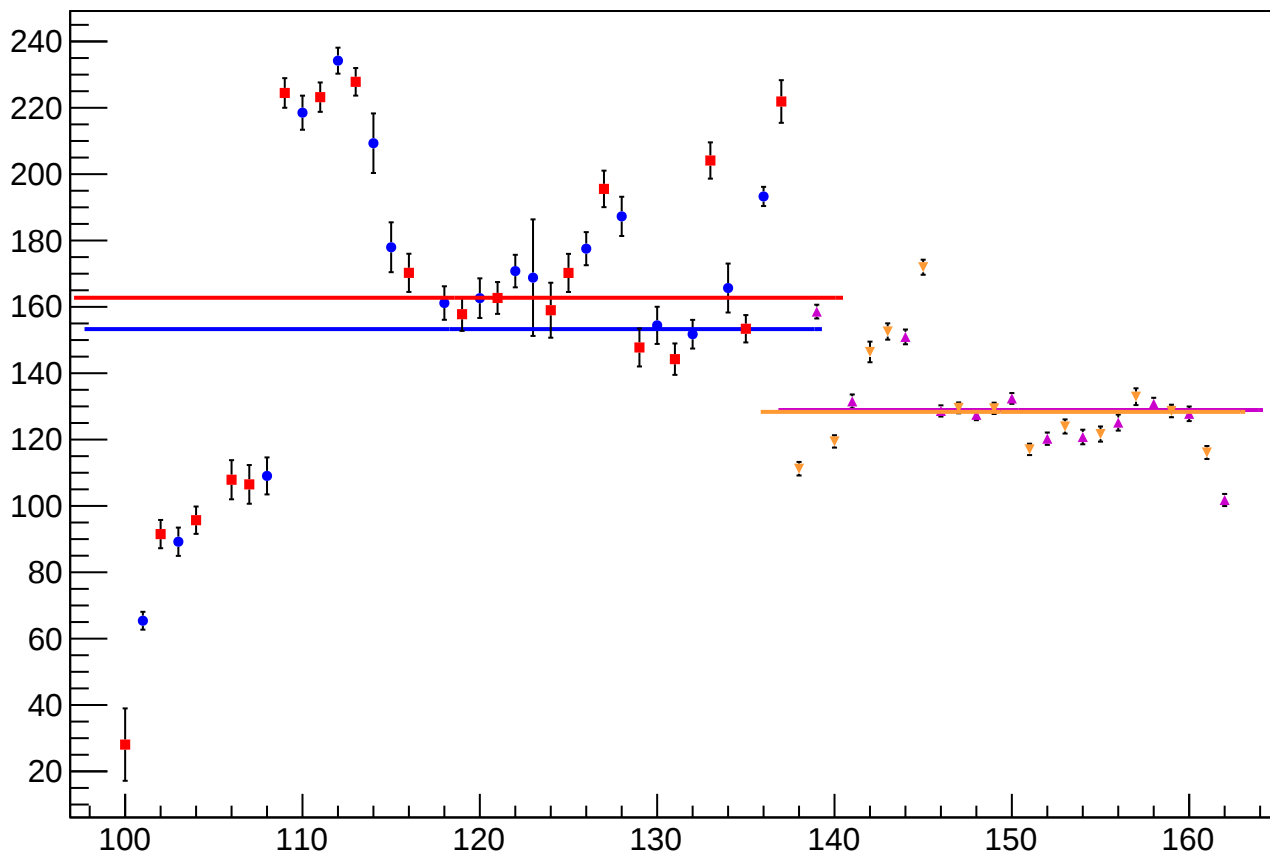
Right:  $6.165 \pm 0.450$   $\chi^2/\text{NDF}$ : 574.4/35

In:  $3.866 \pm 0.328$   $\chi^2/\text{NDF}$ : 570.8/28

Out:  $4.446 \pm 0.329$   $\chi^2/\text{NDF}$ : 628.2/31

All:  $4.156 \pm 0.232$   $\chi^2/\text{NDF}$ : 1200.5/60

reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 153.298 $\pm$ 1.145  $\chi^2$ /NDF: 2266.8/16

Left Out: 128.352 $\pm$ 0.563  $\chi^2$ /NDF:692.5/12

Right Out: 162.747 $\pm$ 1.177  $\chi^2$ /NDF: 1708.7/18

Left In: 128.910 $\pm$ 0.555  $\chi^2$ /NDF:567.0/11

Left: 128.635 $\pm$ 0.395  $\chi^2$ /NDF: 1260.0/24

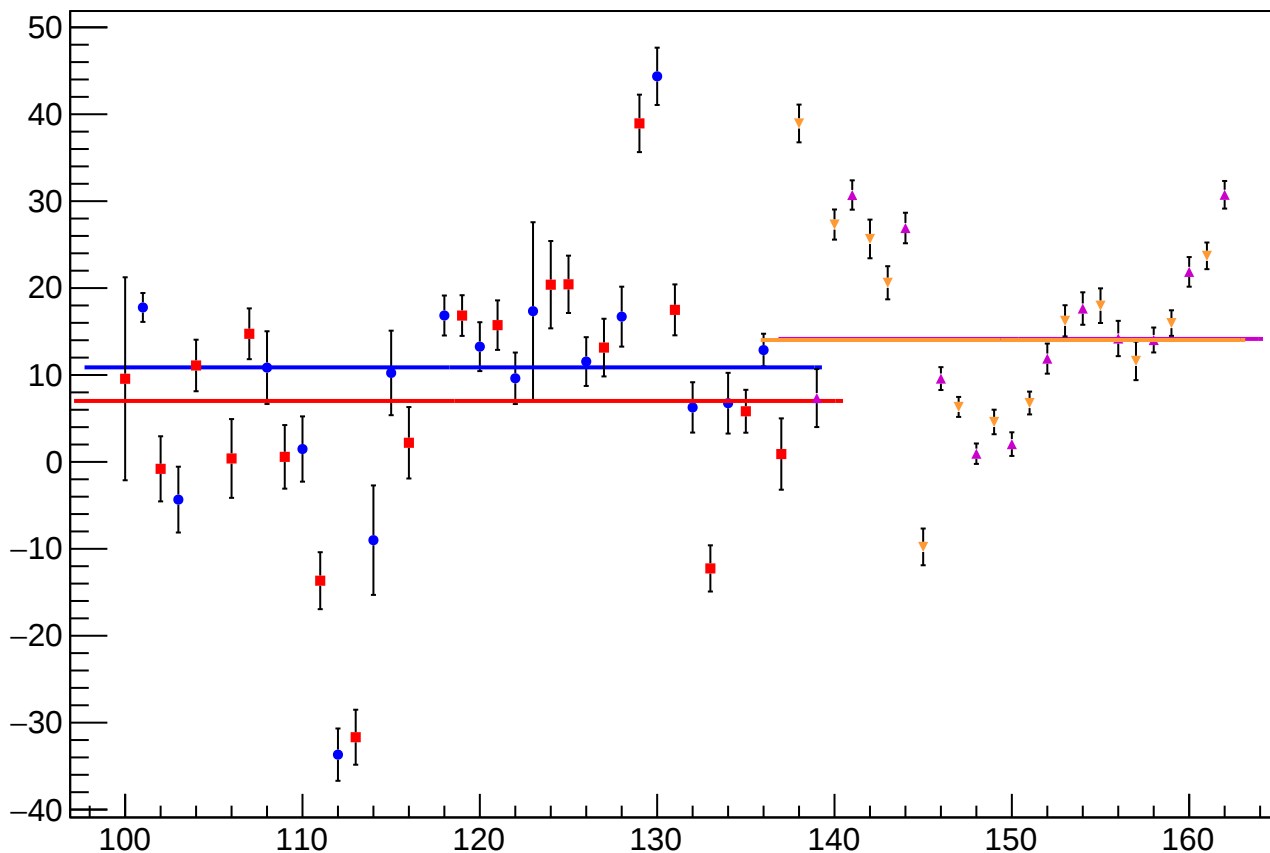
Right: 157.893 $\pm$ 0.820  $\chi^2$ /NDF: 4008.6/35

In: 133.554 $\pm$ 0.499  $\chi^2$ /NDF:3201.2/28

Out: 134.763 $\pm$ 0.508  $\chi^2$ /NDF:3096.4/31

All: 134.148 $\pm$ 0.356  $\chi^2$ /NDF: 6300.5/60

reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $10.878 \pm 0.713$   $\chi^2/\text{NDF}: 388.1/16$

Left Out:  $14.024 \pm 0.459$   $\chi^2/\text{NDF}: 524.9/12$

Right Out:  $7.014 \pm 0.748$   $\chi^2/\text{NDF}: 424.5/18$

Left In:  $14.151 \pm 0.461$   $\chi^2/\text{NDF}: 505.5/11$

Left:  $14.087 \pm 0.326$   $\chi^2/\text{NDF}: 1030.4/24$

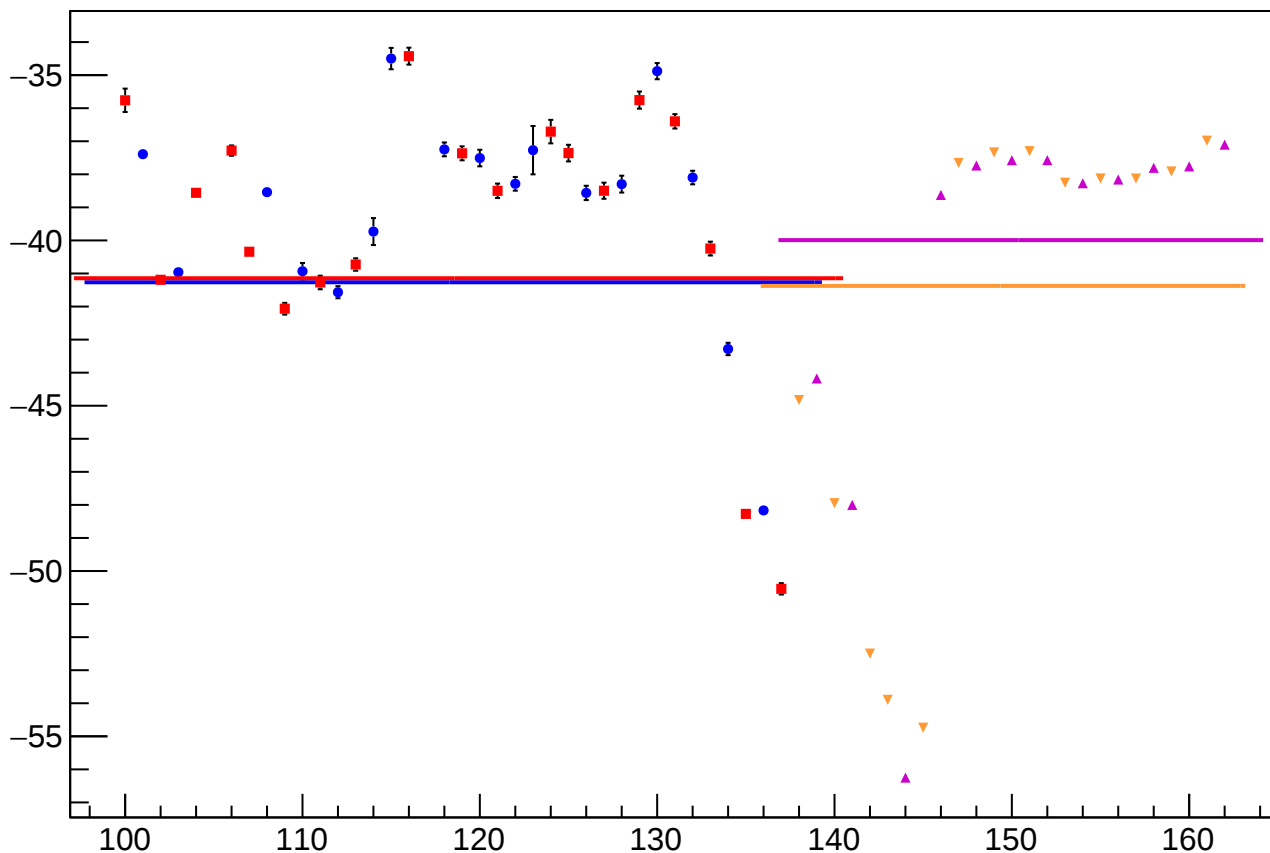
Right:  $9.038 \pm 0.516$   $\chi^2/\text{NDF}: 826.6/35$

In:  $13.186 \pm 0.387$   $\chi^2/\text{NDF}: 908.4/28$

Out:  $12.104 \pm 0.391$   $\chi^2/\text{NDF}: 1013.1/31$

All:  $12.651 \pm 0.275$   $\chi^2/\text{NDF}: 1925.4/60$

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-41.265 \pm 0.038$   $\chi^2/\text{NDF}: 12570.1/16$

Left Out:  $-41.375 \pm 0.022$   $\chi^2/\text{NDF}: 73933.4/12$

Right Out:  $-41.144 \pm 0.039$   $\chi^2/\text{NDF}: 12218.7/18$

Left In:  $-39.990 \pm 0.022$   $\chi^2/\text{NDF}: 48265.5/11$

Left:  $-40.667 \pm 0.016$   $\chi^2/\text{NDF}: 124160.8/24$

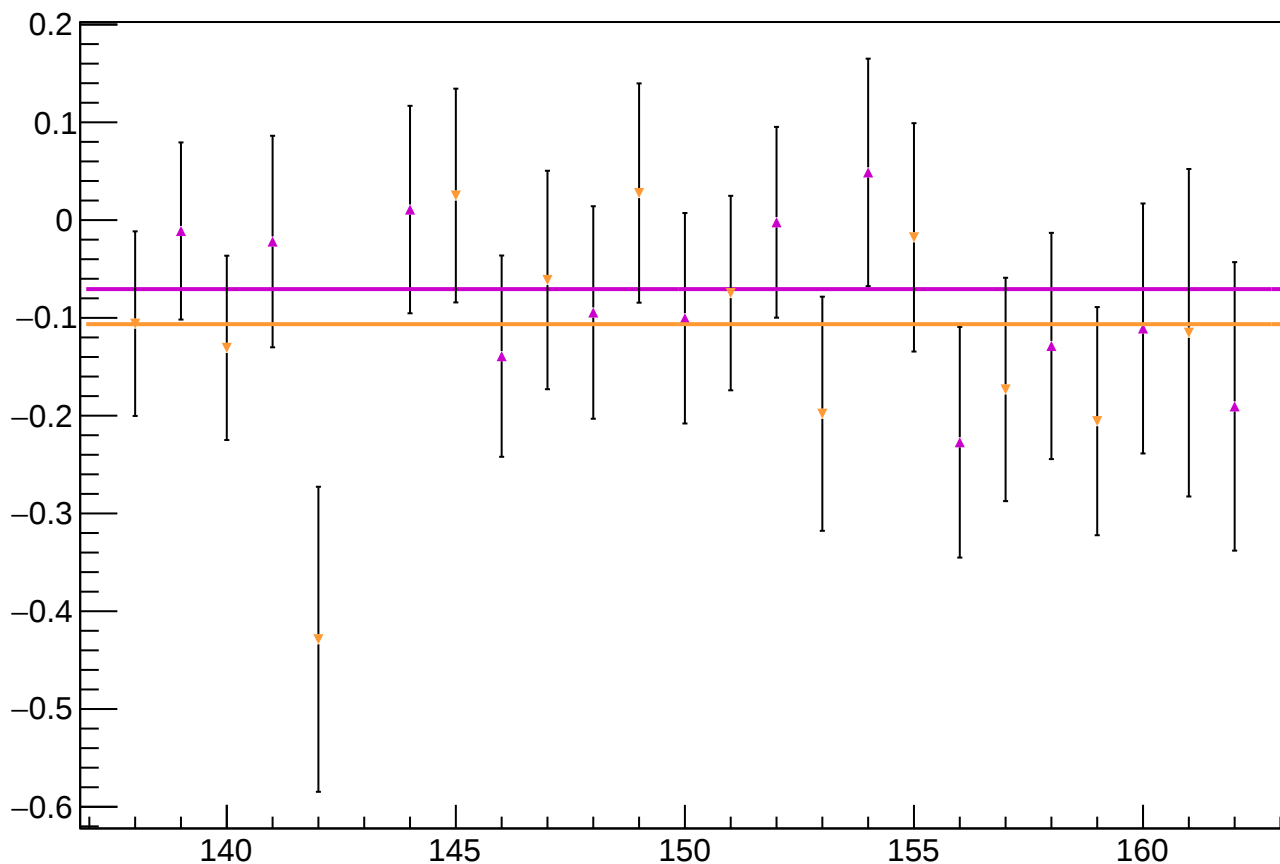
Right:  $-41.205 \pm 0.027$   $\chi^2/\text{NDF}: 24793.7/35$

In:  $-40.301 \pm 0.019$   $\chi^2/\text{NDF}: 61665.3/28$

Out:  $-41.317 \pm 0.019$   $\chi^2/\text{NDF}: 86178.9/31$

All:  $-40.800 \pm 0.014$   $\chi^2/\text{NDF}: 149247.7/60$

reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.106+/-0.033  $\chi^2$ /NDF:9.7/11

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

Left In: -0.071+/-0.032  $\chi^2$ /NDF:6.1/11

Left: -0.088+/-0.023  $\chi^2$ /NDF: 16.4/23

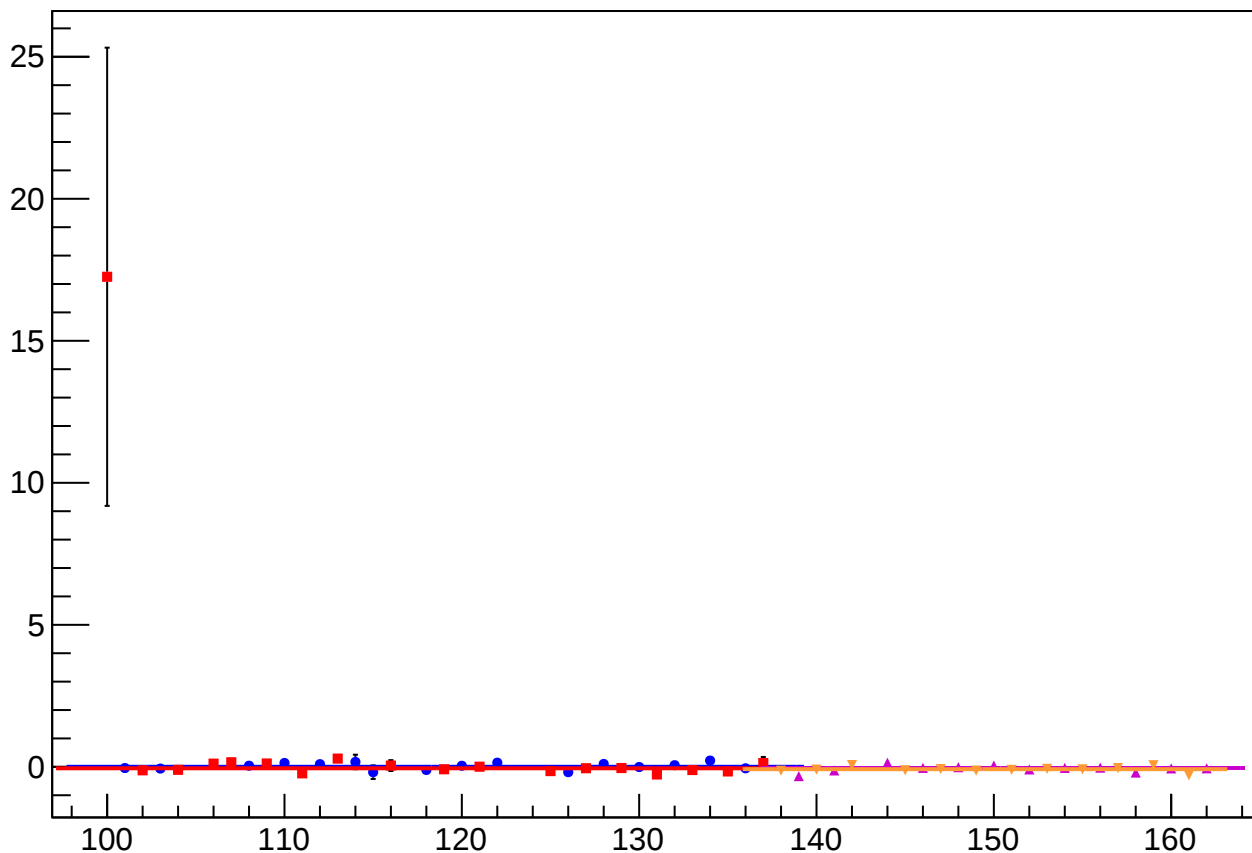
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -0.071+/-0.032  $\chi^2$ /NDF:6.1/11

Out: -0.106+/-0.033  $\chi^2$ /NDF:9.7/11

All: -0.088+/-0.023  $\chi^2$ /NDF: 16.4/23

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.002 \pm 0.028$   $\chi^2/\text{NDF}: 12.5/15$

Left Out:  $-0.082 \pm 0.022$   $\chi^2/\text{NDF}: 9.9/11$

Right Out:  $-0.051 \pm 0.029$   $\chi^2/\text{NDF}: 25.8/17$

Left In:  $-0.040 \pm 0.022$   $\chi^2/\text{NDF}: 16.5/11$

Left:  $-0.061 \pm 0.016$   $\chi^2/\text{NDF}: 28.1/23$

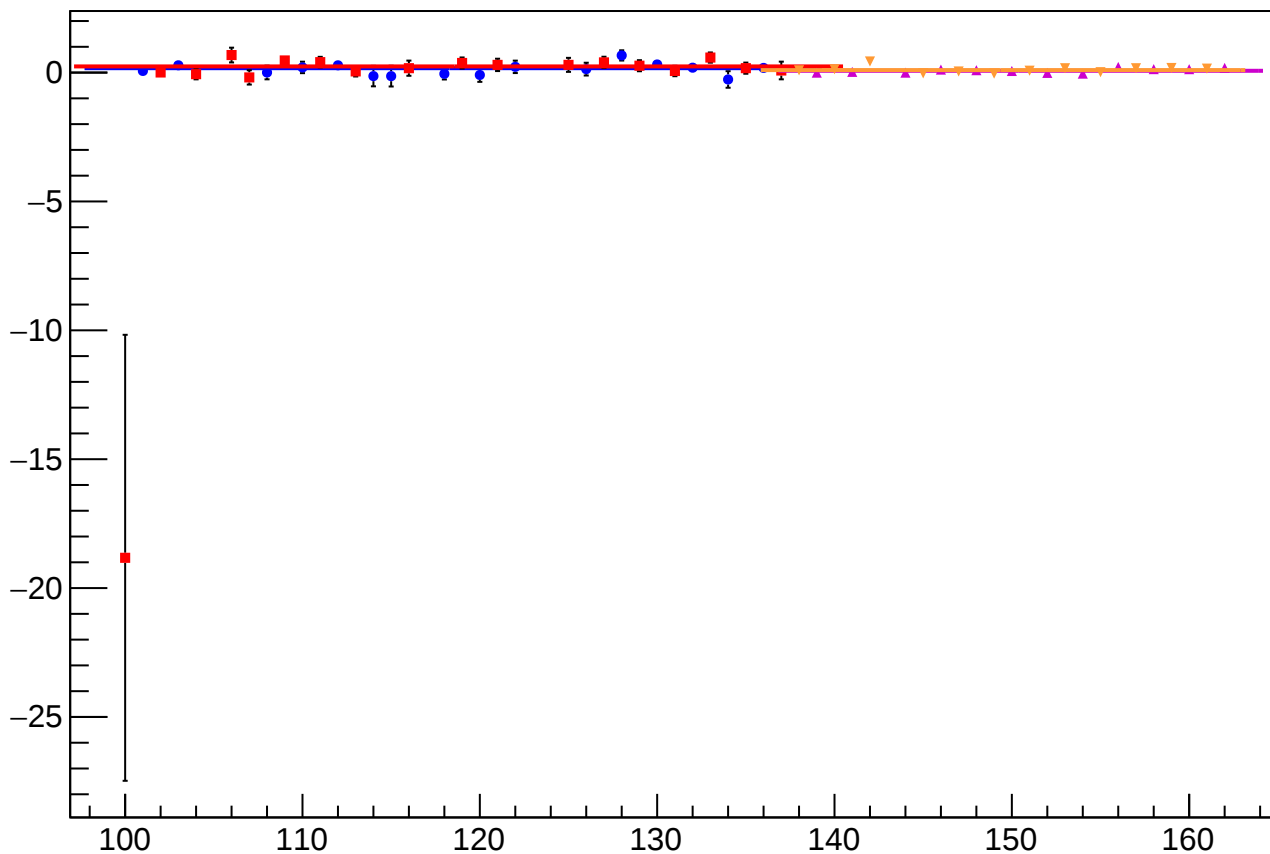
Right:  $-0.024 \pm 0.020$   $\chi^2/\text{NDF}: 40.0/33$

In:  $-0.025 \pm 0.017$   $\chi^2/\text{NDF}: 30.4/27$

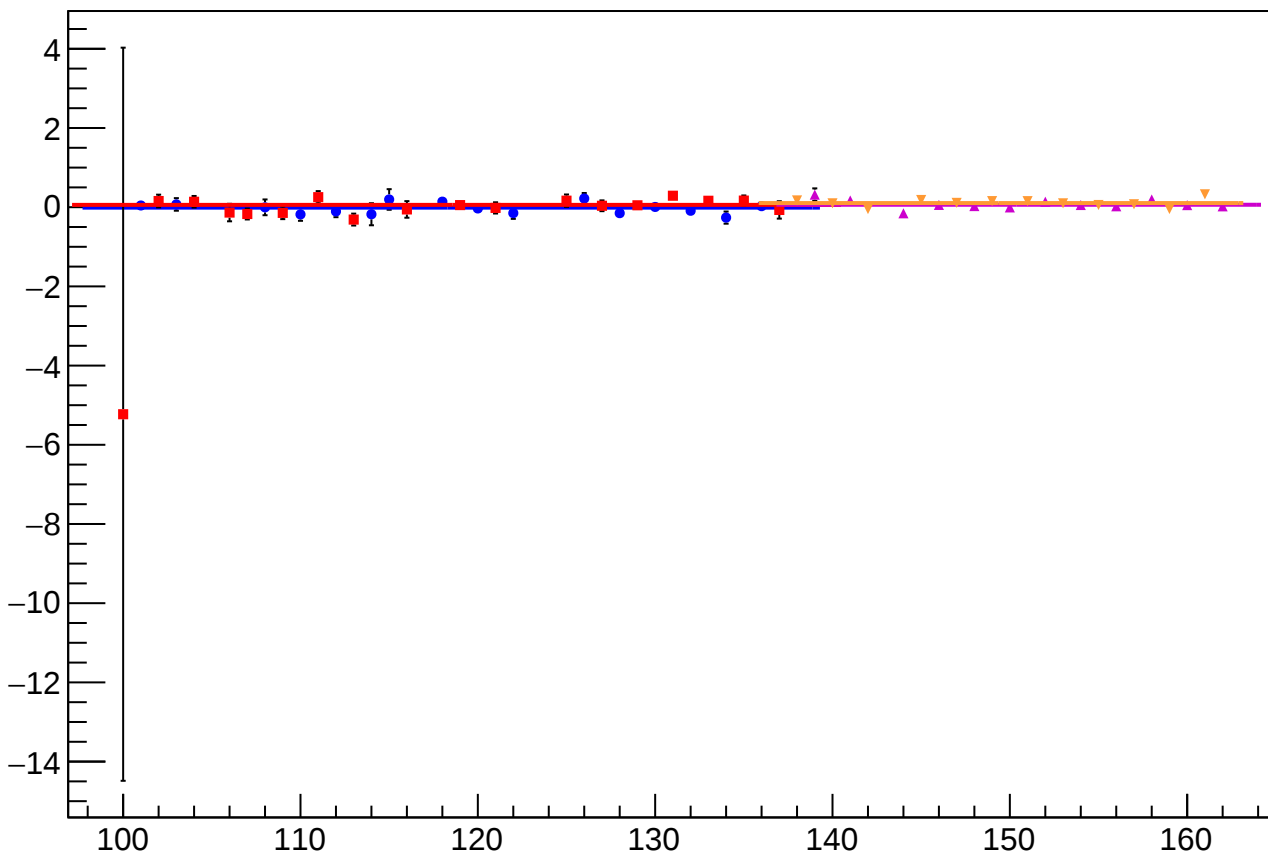
Out:  $-0.071 \pm 0.018$   $\chi^2/\text{NDF}: 36.4/29$

All:  $-0.047 \pm 0.012$   $\chi^2/\text{NDF}: 70.2/57$

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.011 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.8/15

Left Out:  $0.104 \pm 0.027$   $\chi^2/\text{NDF}$ : 9.8/11

Right Out:  $0.059 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.6/17

Left In:  $0.062 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.2/11

Left:  $0.082 \pm 0.019$   $\chi^2/\text{NDF}$ : 25.3/23

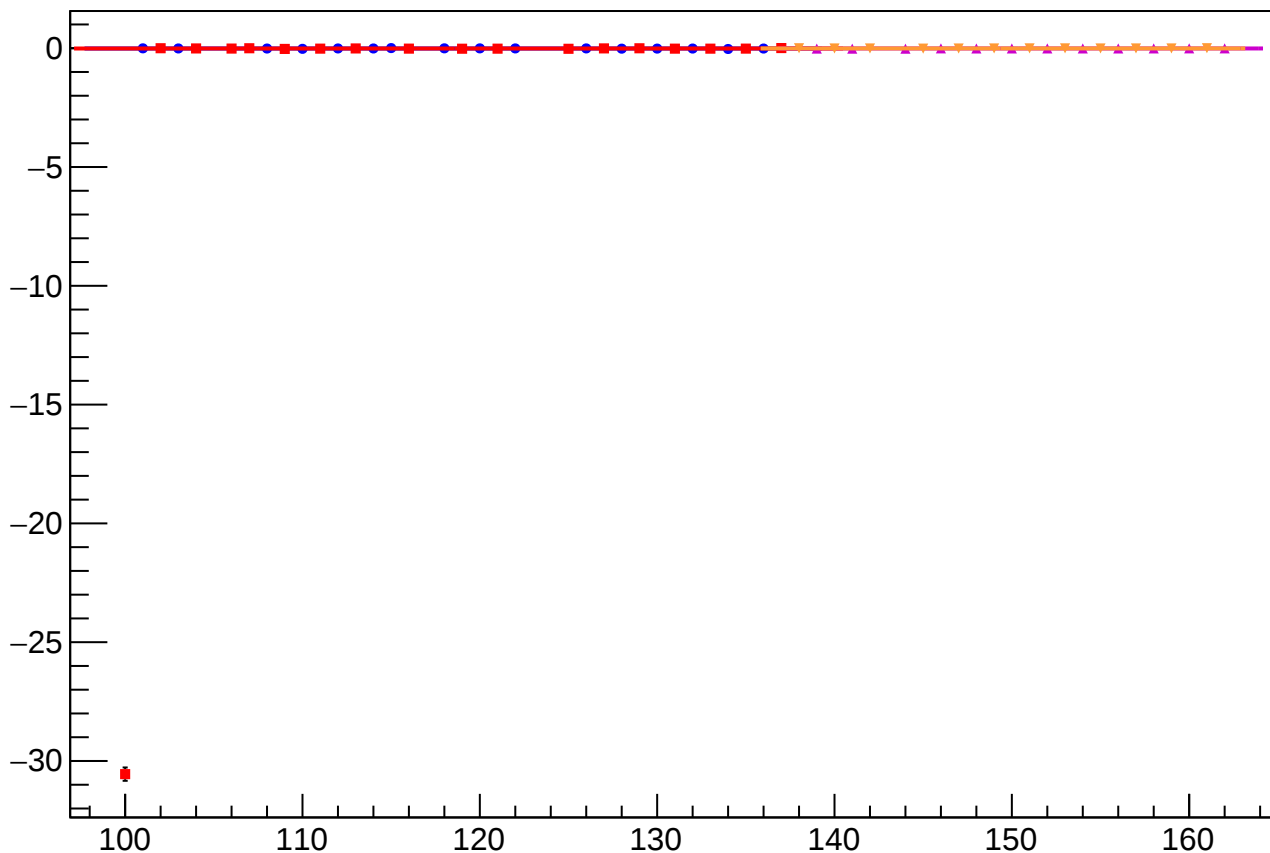
Right:  $0.022 \pm 0.023$   $\chi^2/\text{NDF}$ : 36.5/33

In:  $0.033 \pm 0.020$   $\chi^2/\text{NDF}$ : 30.9/27

Out:  $0.087 \pm 0.021$   $\chi^2/\text{NDF}$ : 31.5/29

All:  $0.059 \pm 0.015$   $\chi^2/\text{NDF}$ : 65.8/57

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 12.9/15

Left Out: -0.008 $\pm$ 0.001  $\chi^2$ /NDF:10.3/11

Right Out: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 11891.5/17

Left In: -0.011 $\pm$ 0.001  $\chi^2$ /NDF:11.9/11

Left: -0.010 $\pm$ 0.001  $\chi^2$ /NDF: 23.7/23

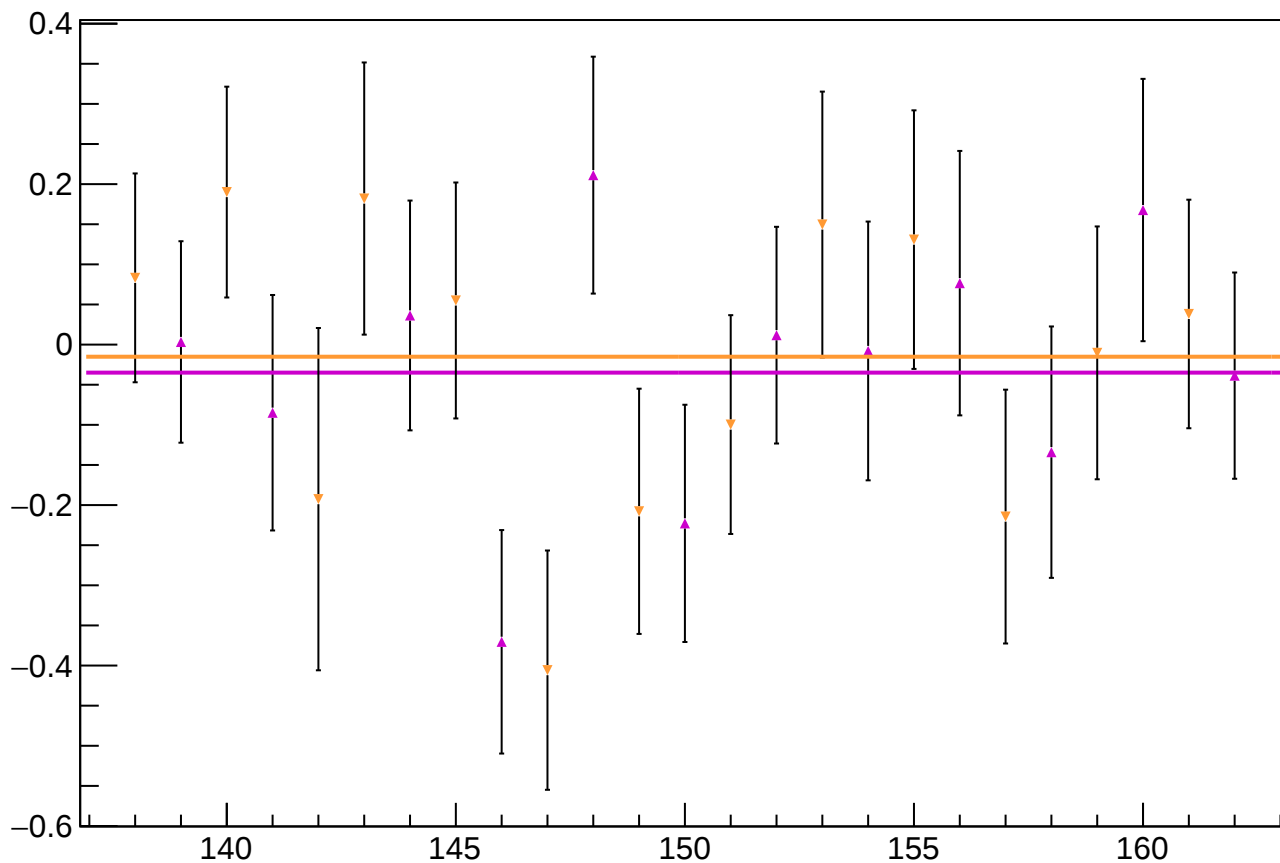
Right: -0.012 $\pm$ 0.001  $\chi^2$ /NDF: 11904.4/33

In: -0.011 $\pm$ 0.001  $\chi^2$ /NDF:25.1/27

Out: -0.010 $\pm$ 0.001  $\chi^2$ /NDF:11904.7/29

All: -0.010 $\pm$ 0.001  $\chi^2$ /NDF: 11930.7/57

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.015 $\pm$ 0.042  $\chi^2$ /NDF:17.7/12

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

Left In: -0.035 $\pm$ 0.042  $\chi^2$ /NDF:13.2/11

Left: -0.025 $\pm$ 0.030  $\chi^2$ /NDF: 31.0/24

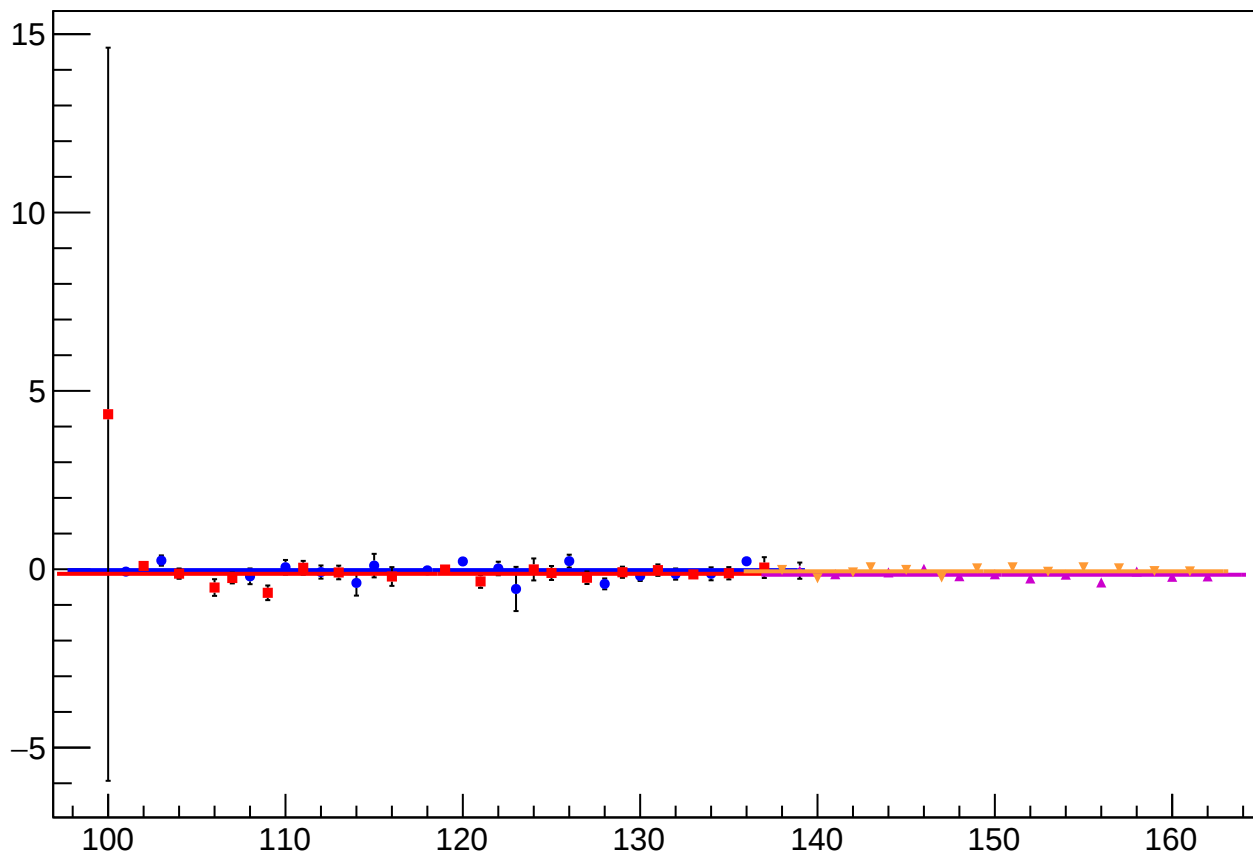
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.035 $\pm$ 0.042  $\chi^2$ /NDF:13.2/11

Out: -0.015 $\pm$ 0.042  $\chi^2$ /NDF:17.7/12

All: -0.025 $\pm$ 0.030  $\chi^2$ /NDF: 31.0/24

reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.024 \pm 0.037$   $\chi^2/\text{NDF}$ : 23.4/16

Left Out:  $-0.058 \pm 0.029$   $\chi^2/\text{NDF}$ : 14.7/12

Right Out:  $-0.128 \pm 0.039$   $\chi^2/\text{NDF}$ : 17.6/18

Left In:  $-0.154 \pm 0.029$   $\chi^2/\text{NDF}$ : 10.9/11

Left:  $-0.105 \pm 0.021$   $\chi^2/\text{NDF}$ : 31.1/24

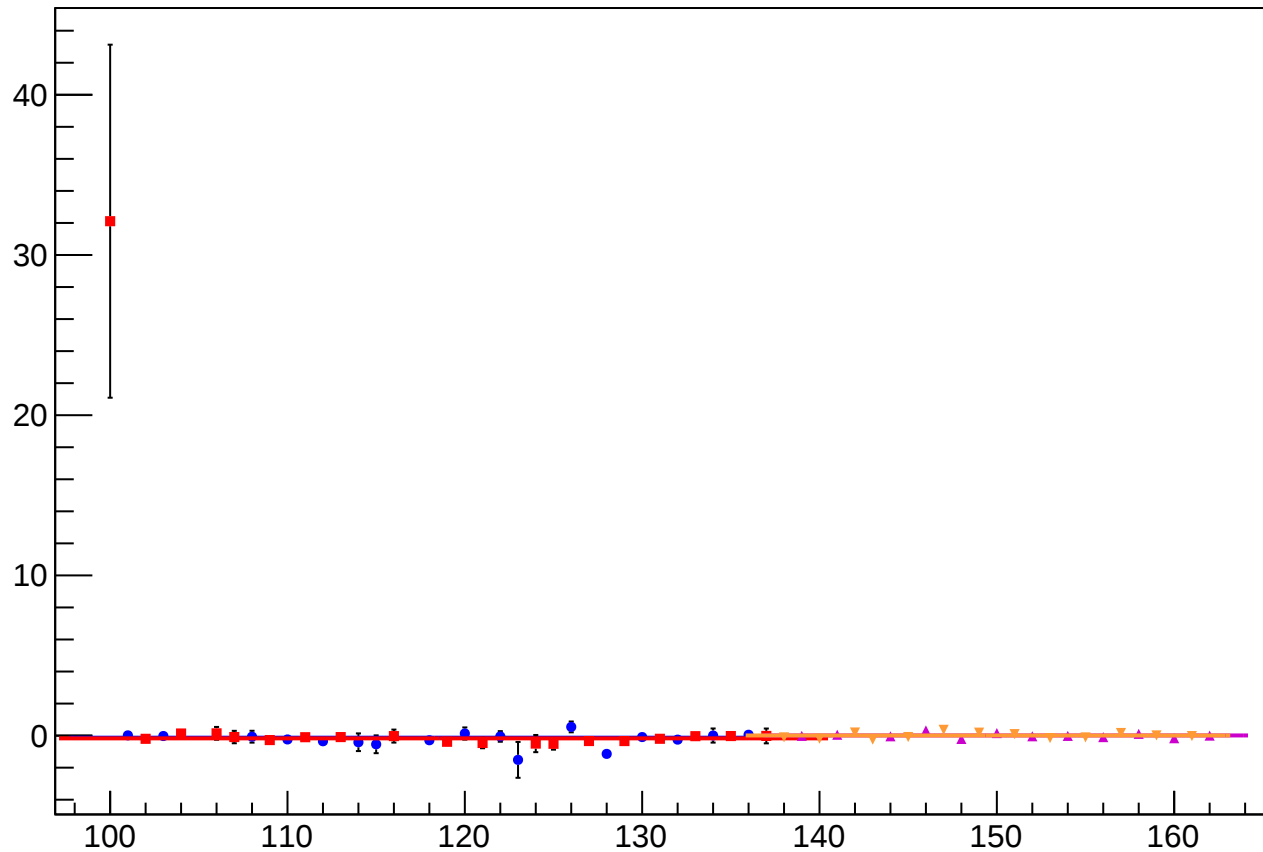
Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}$ : 44.7/35

In:  $-0.103 \pm 0.023$   $\chi^2/\text{NDF}$ : 42.0/28

Out:  $-0.082 \pm 0.023$   $\chi^2/\text{NDF}$ : 34.4/31

All:  $-0.093 \pm 0.016$   $\chi^2/\text{NDF}$ : 76.8/60

reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.129 \pm 0.067$   $\chi^2/\text{NDF}: 23.7/16$

Left Out:  $0.009 \pm 0.041$   $\chi^2/\text{NDF}: 17.3/12$

Right Out:  $-0.172 \pm 0.071$   $\chi^2/\text{NDF}: 15.0/18$

Left In:  $0.011 \pm 0.041$   $\chi^2/\text{NDF}: 11.8/11$

Left:  $0.010 \pm 0.029$   $\chi^2/\text{NDF}: 29.1/24$

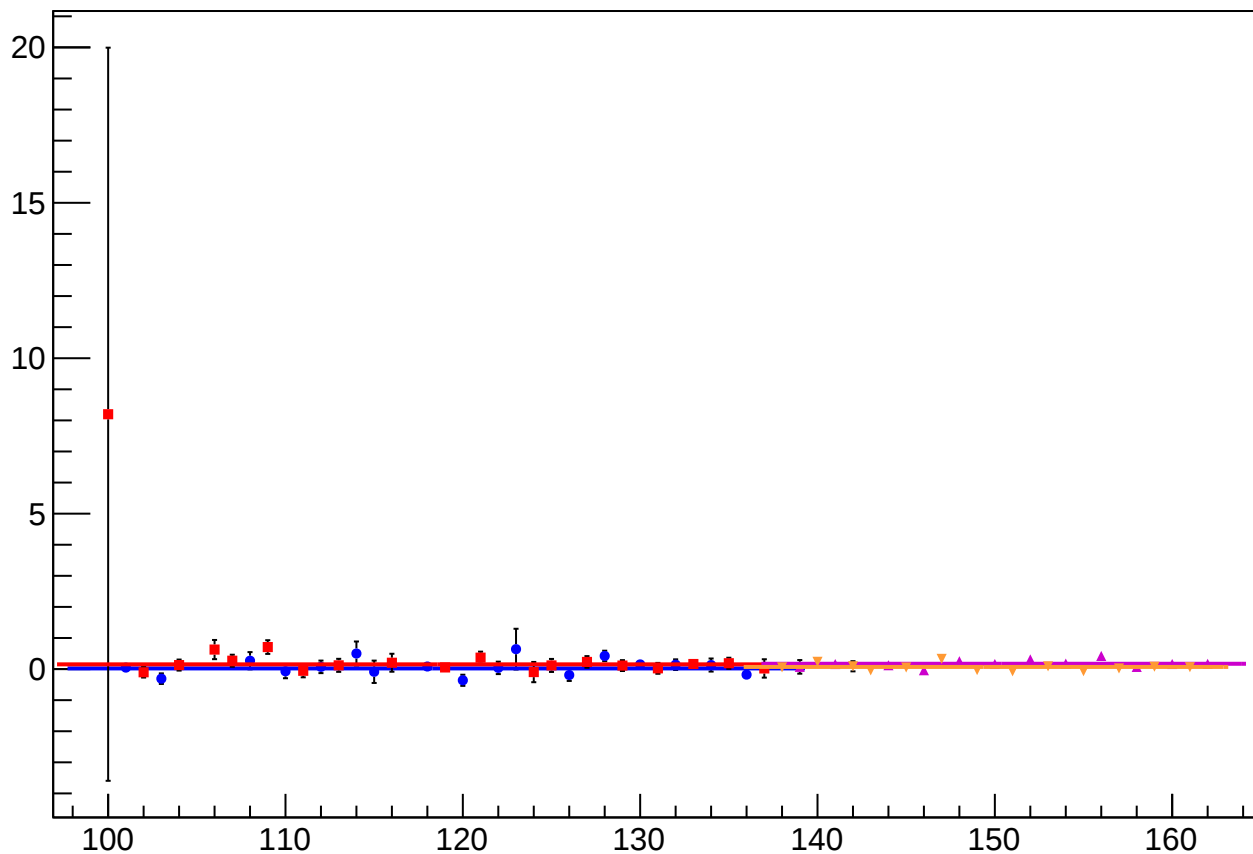
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}: 39.0/35$

In:  $-0.027 \pm 0.035$   $\chi^2/\text{NDF}: 38.8/28$

Out:  $-0.036 \pm 0.036$   $\chi^2/\text{NDF}: 37.1/31$

All:  $-0.032 \pm 0.025$   $\chi^2/\text{NDF}: 75.9/60$

reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.021+/-0.042  $\chi^2/\text{NDF}$ : 22.5/16

Left Out: 0.069+/-0.034  $\chi^2/\text{NDF}$ :13.3/12

Right Out: 0.152+/-0.045  $\chi^2/\text{NDF}$ : 16.2/18

Left In: 0.171+/-0.034  $\chi^2/\text{NDF}$ :10.9/11

Left: 0.119+/-0.024  $\chi^2/\text{NDF}$ : 28.6/24

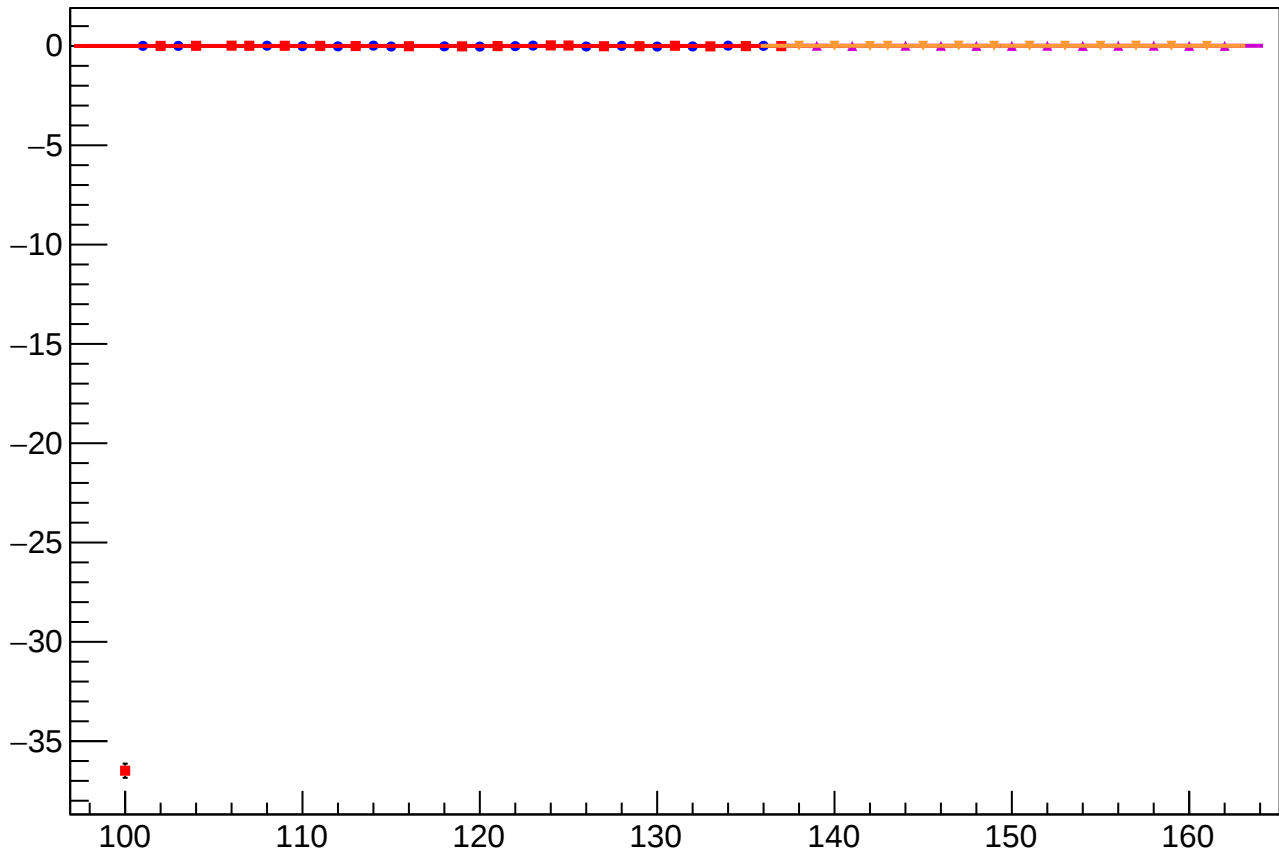
Right: 0.082+/-0.031  $\chi^2/\text{NDF}$ : 43.2/35

In: 0.111+/-0.027  $\chi^2/\text{NDF}$ :41.0/28

Out: 0.099+/-0.027  $\chi^2/\text{NDF}$ :31.7/31

All: 0.105+/-0.019  $\chi^2/\text{NDF}$ : 72.7/60

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 32.4/16

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.5/12

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10449.1/18

Left In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF: 5.4/11

Left: 0.011 $\pm$ 0.001  $\chi^2$ /NDF: 11.9/24

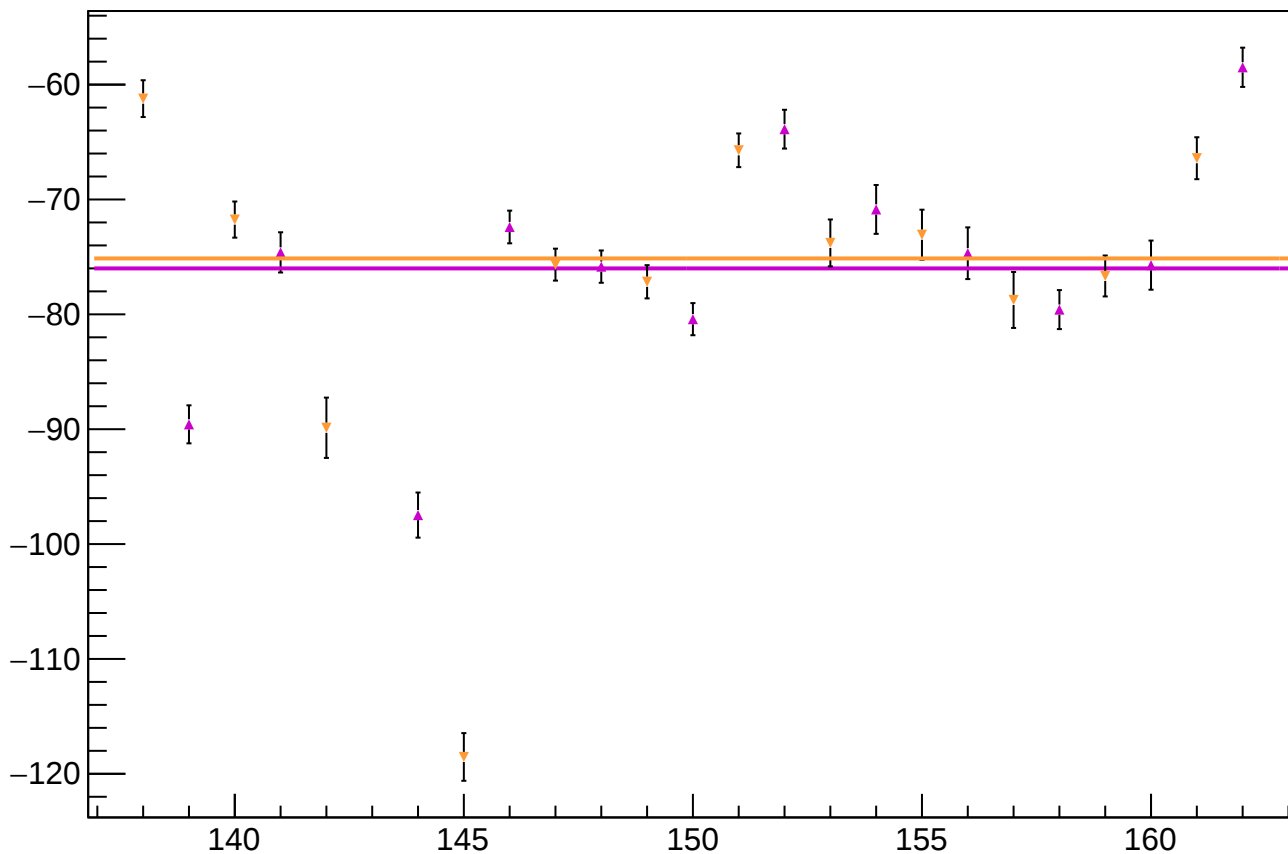
Right: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10481.5/35

In: 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 50.2/28

Out: 0.007 $\pm$ 0.001  $\chi^2$ /NDF: 10466.8/31

All: 0.007 $\pm$ 0.001  $\chi^2$ /NDF: 10517.0/60

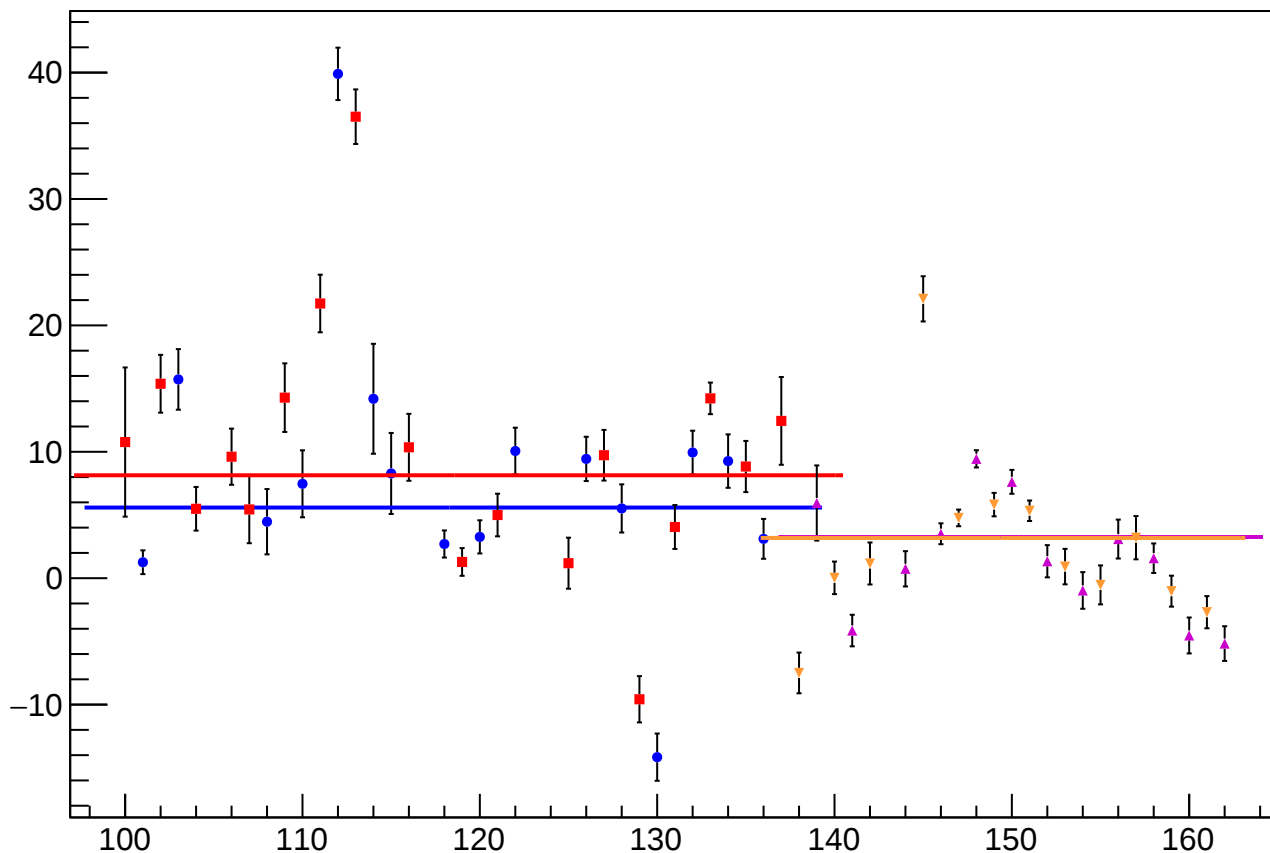
reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -75.134+/-0.509  $\chi^2/\text{NDF}$ : 619.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -76.001+/-0.492  $\chi^2/\text{NDF}$ : 371.2/11

Left: -75.582+/-0.353  $\chi^2/\text{NDF}$ : 992.1/23  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -76.001+/-0.492  $\chi^2/\text{NDF}$ : 371.2/11  
 Out: -75.134+/-0.509  $\chi^2/\text{NDF}$ : 619.3/11  
 All: -75.582+/-0.353  $\chi^2/\text{NDF}$ : 992.1/23

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.589 $\pm$ 0.424  $\chi^2$ /NDF: 462.8/15

Left Out: 3.187 $\pm$ 0.330  $\chi^2$ /NDF:225.8/11

Right Out: 8.142 $\pm$ 0.454  $\chi^2$ /NDF: 407.7/17

Left In: 3.259 $\pm$ 0.328  $\chi^2$ /NDF:223.5/11

Left: 3.223 $\pm$ 0.233  $\chi^2$ /NDF: 449.3/23

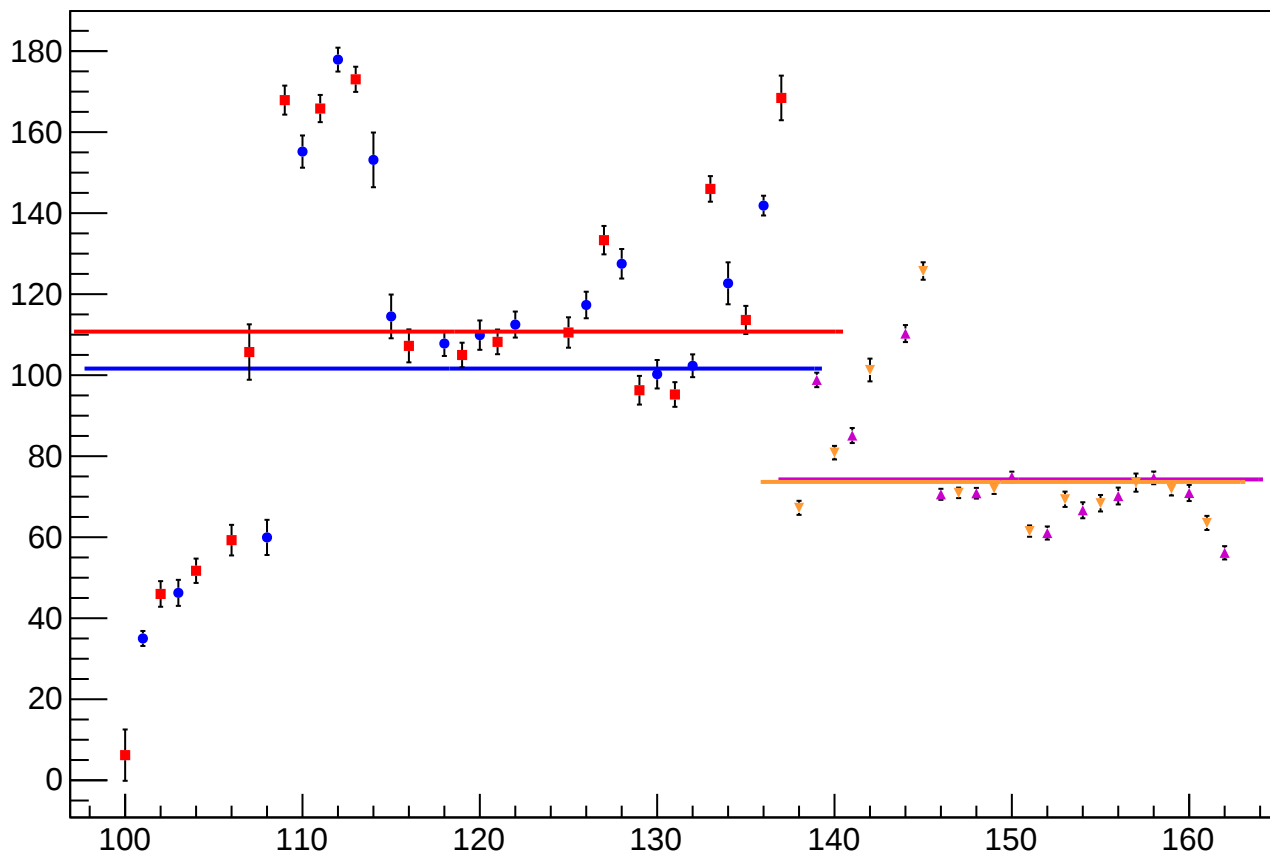
Right: 6.778 $\pm$ 0.310  $\chi^2$ /NDF: 887.4/33

In: 4.133 $\pm$ 0.259  $\chi^2$ /NDF:705.2/27

Out: 4.899 $\pm$ 0.267  $\chi^2$ /NDF:711.6/29

All: 4.506 $\pm$ 0.186  $\chi^2$ /NDF: 1421.0/57

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 101.631 $\pm$ 0.807  $\chi^2$ /NDF: 2978.9/15

Left Out: 73.652 $\pm$ 0.494  $\chi^2$ /NDF:840.7/11

Right Out: 110.756 $\pm$ 0.836  $\chi^2$ /NDF: 2513.0/17

Left In: 74.267 $\pm$ 0.475  $\chi^2$ /NDF:739.8/11

Left: 73.971 $\pm$ 0.343  $\chi^2$ /NDF: 1581.3/23

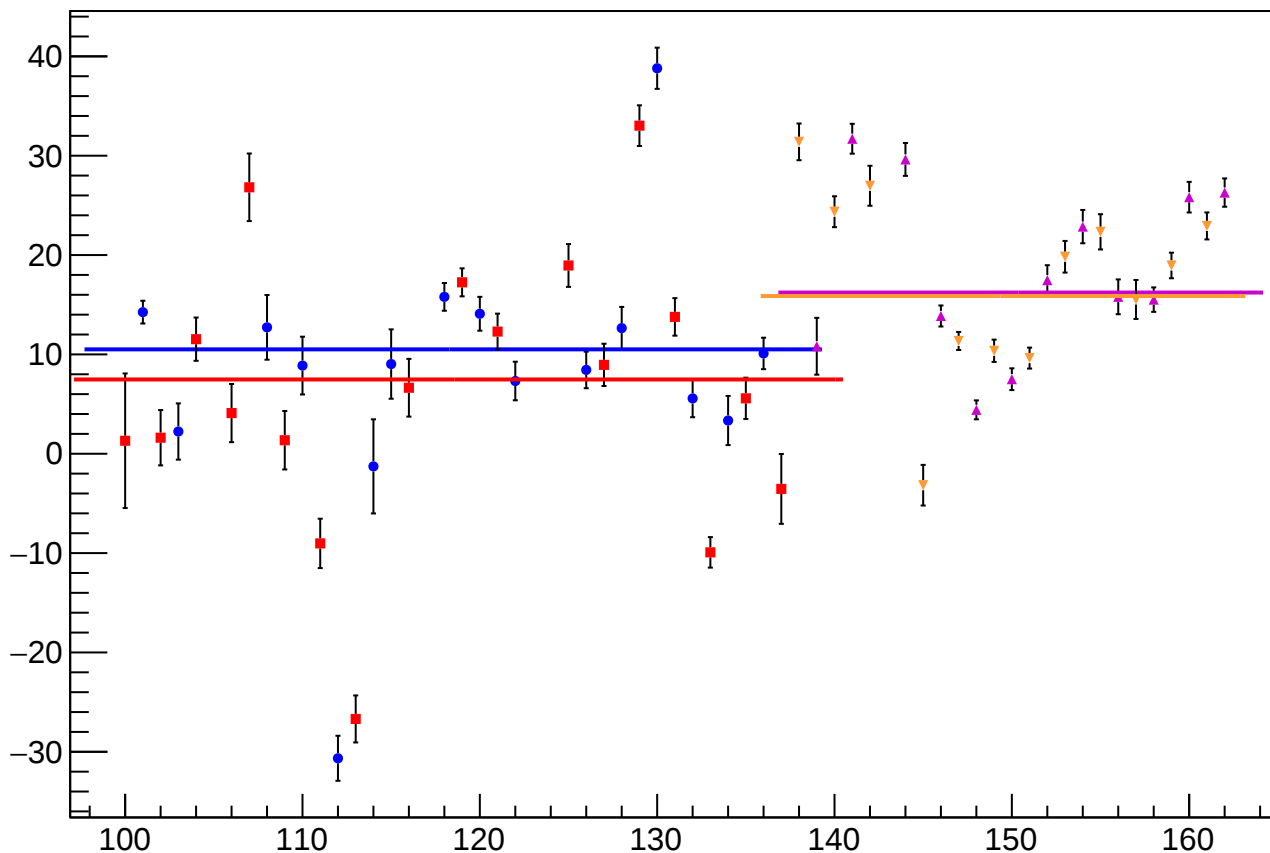
Right: 106.031 $\pm$ 0.581  $\chi^2$ /NDF: 5553.5/33

In: 81.318 $\pm$ 0.410  $\chi^2$ /NDF:4572.4/27

Out: 83.252 $\pm$ 0.425  $\chi^2$ /NDF:4813.2/29

All: 82.248 $\pm$ 0.295  $\chi^2$ /NDF: 9396.2/57

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.508 $\pm$ 0.492  $\chi^2$ /NDF: 581.5/15

Left Out: 15.874 $\pm$ 0.401  $\chi^2$ /NDF: 353.7/11

Right Out: 7.477 $\pm$ 0.524  $\chi^2$ /NDF: 689.3/17

Left In: 16.227 $\pm$ 0.394  $\chi^2$ /NDF: 502.2/11

Left: 16.054 $\pm$ 0.281  $\chi^2$ /NDF: 856.2/23

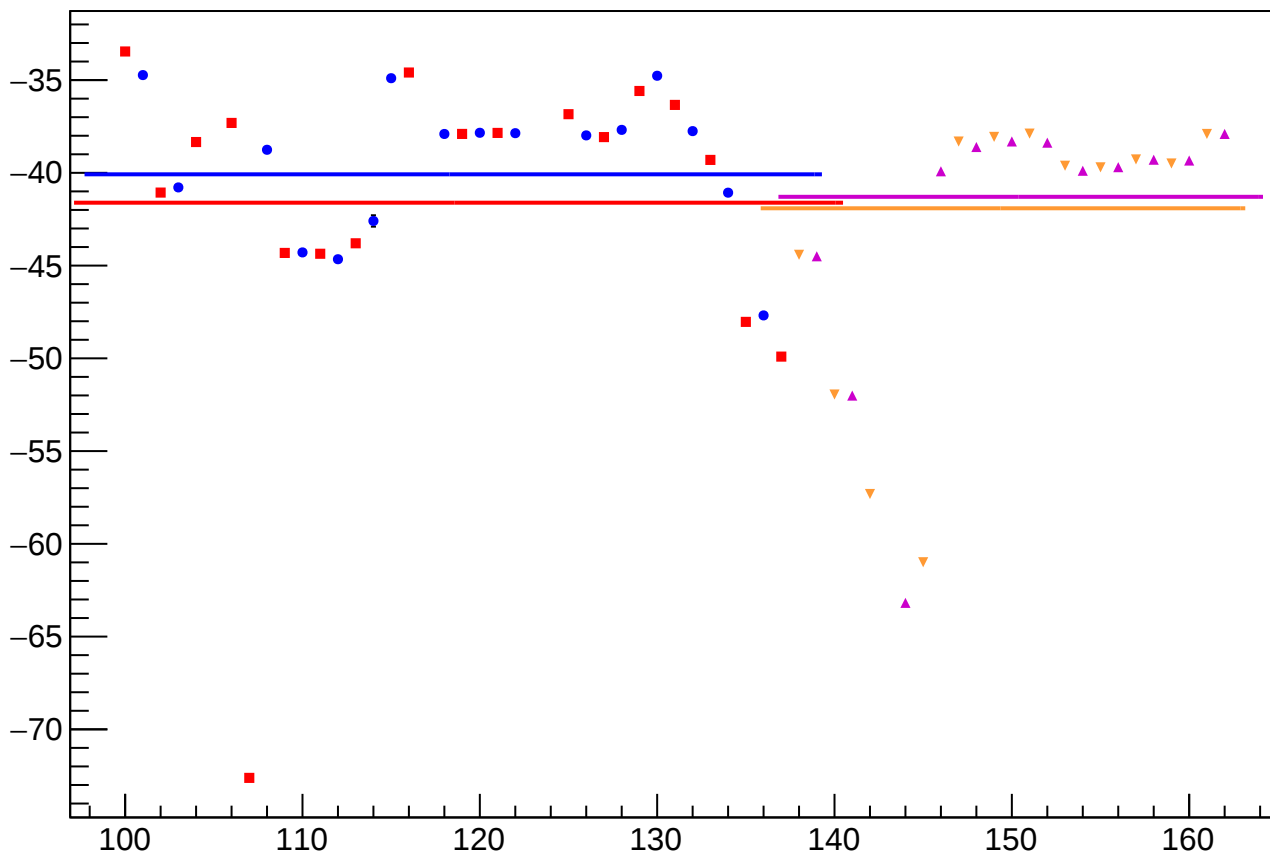
Right: 9.088 $\pm$ 0.359  $\chi^2$ /NDF: 1288.6/33

In: 13.995 $\pm$ 0.307  $\chi^2$ /NDF: 1166.0/27

Out: 12.772 $\pm$ 0.319  $\chi^2$ /NDF: 1204.9/29

All: 13.405 $\pm$ 0.221  $\chi^2$ /NDF: 2378.6/57

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-40.080 \pm 0.028$   $\chi^2/\text{NDF}$ : 25123.9/15

Left Out:  $-41.911 \pm 0.020$   $\chi^2/\text{NDF}$ : 109706.6/11

Right Out:  $-41.609 \pm 0.029$   $\chi^2/\text{NDF}$ : 61784.6/17

Left In:  $-41.292 \pm 0.019$   $\chi^2/\text{NDF}$ : 92615.7/11

Left:  $-41.586 \pm 0.014$   $\chi^2/\text{NDF}$ : 202837.7/23

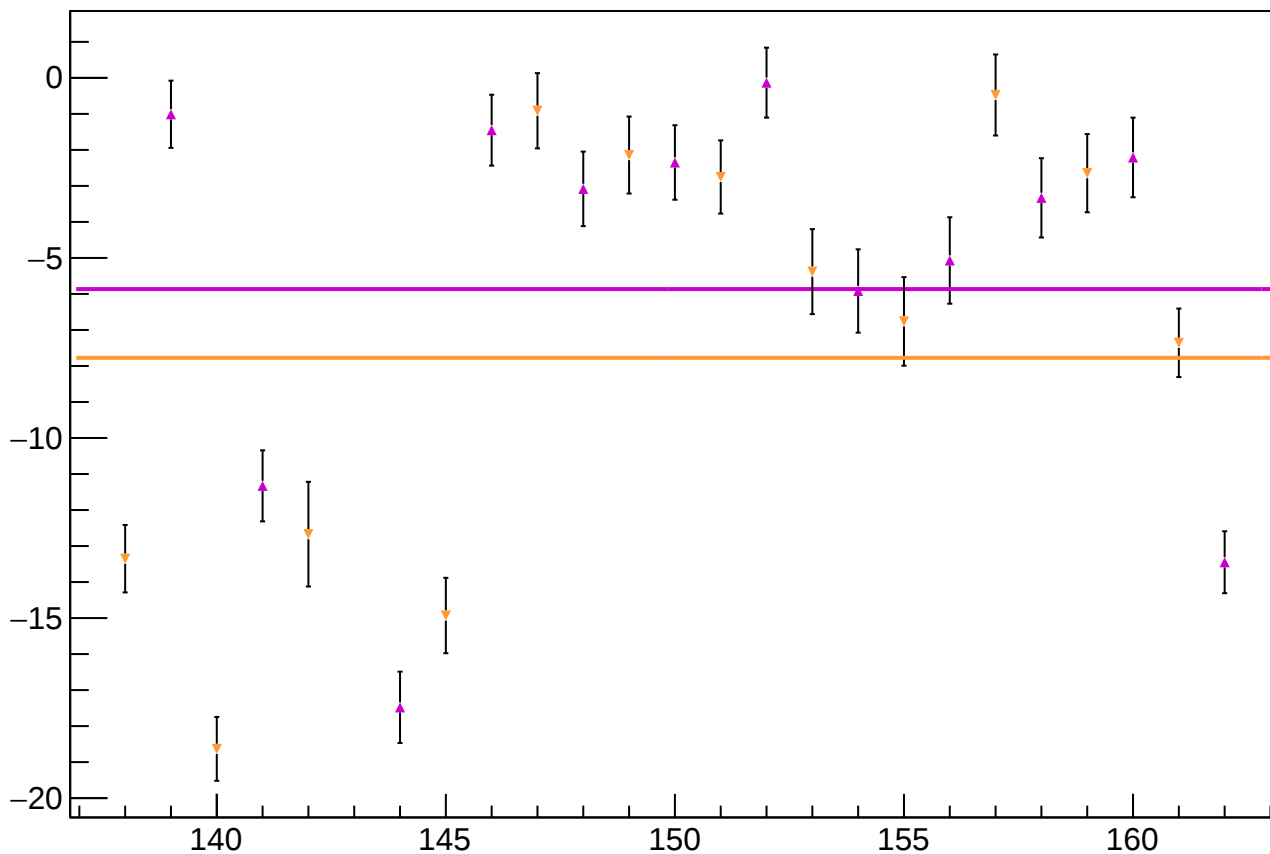
Right:  $-40.834 \pm 0.020$   $\chi^2/\text{NDF}$ : 88360.5/33

In:  $-40.919 \pm 0.016$   $\chi^2/\text{NDF}$ : 119019.9/27

Out:  $-41.813 \pm 0.016$   $\chi^2/\text{NDF}$ : 171566.4/29

All:  $-41.349 \pm 0.011$   $\chi^2/\text{NDF}$ : 292158.2/57

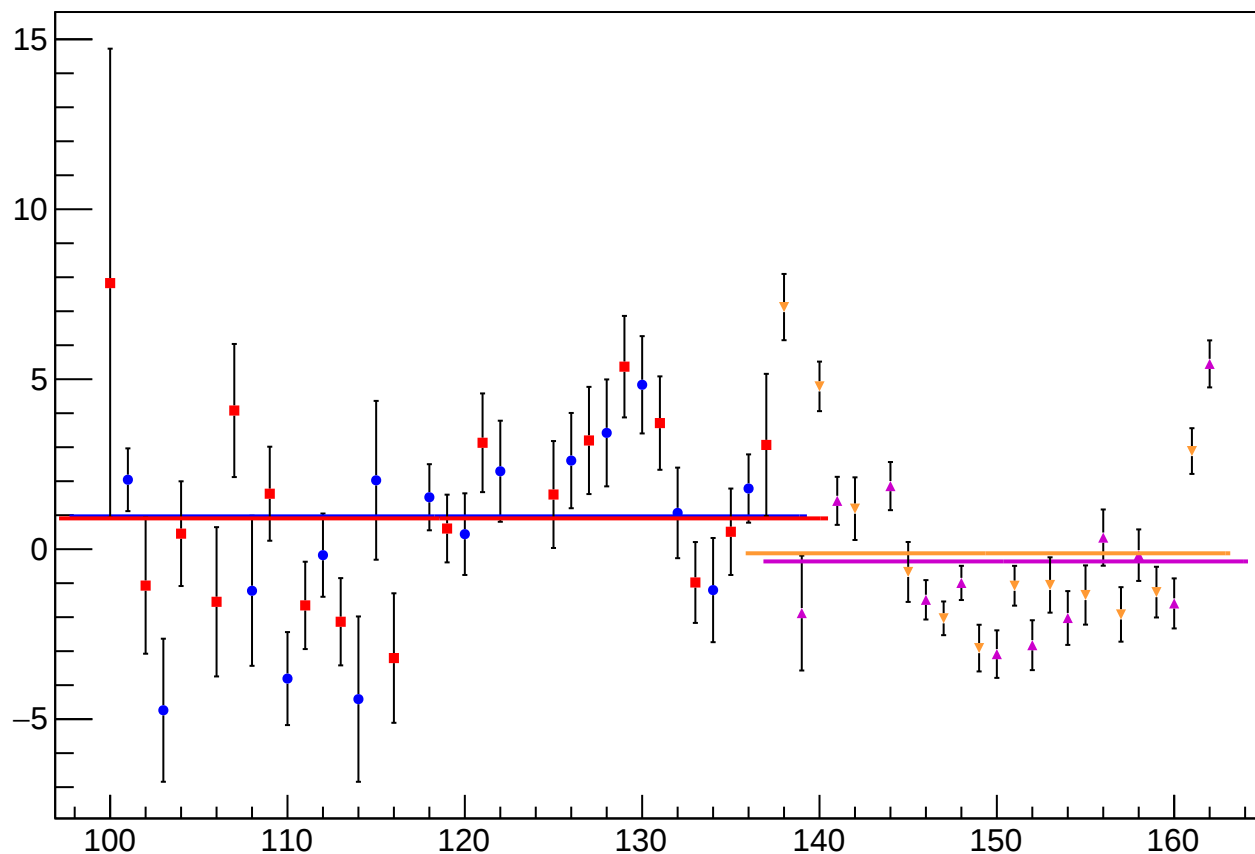
reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.773+/-0.306  $\chi^2/\text{NDF}$ : 408.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.864+/-0.294  $\chi^2/\text{NDF}$ : 363.3/11

Left: -6.780+/-0.212  $\chi^2/\text{NDF}$ : 791.8/23  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.864+/-0.294  $\chi^2/\text{NDF}$ : 363.3/11  
 Out: -7.773+/-0.306  $\chi^2/\text{NDF}$ : 408.2/11  
 All: -6.780+/-0.212  $\chi^2/\text{NDF}$ : 791.8/23

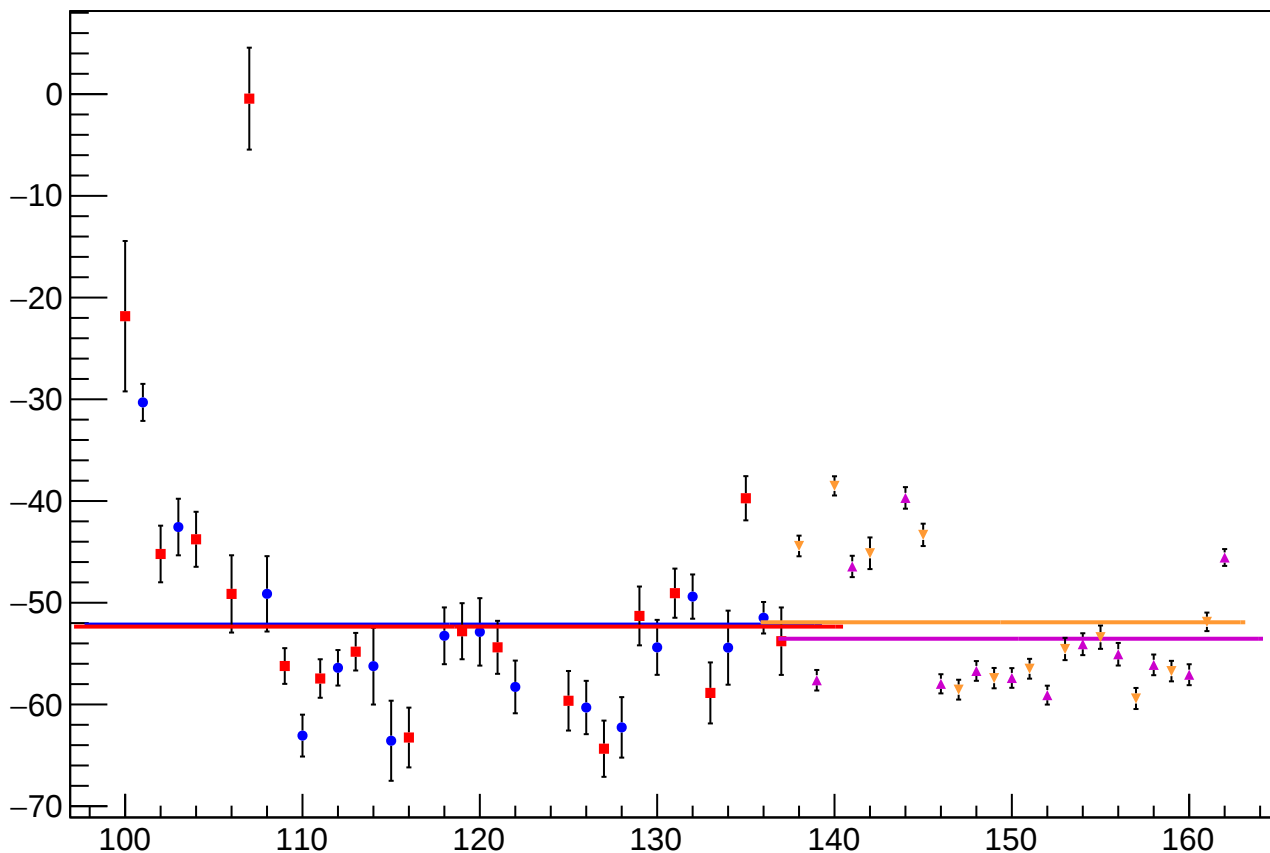
reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.965 \pm 0.338$   $\chi^2/\text{NDF}: 42.9/15$   
 Left Out:  $-0.121 \pm 0.209$   $\chi^2/\text{NDF}: 167.8/11$   
 Right Out:  $0.906 \pm 0.354$   $\chi^2/\text{NDF}: 42.0/17$   
 Left In:  $-0.360 \pm 0.204$   $\chi^2/\text{NDF}: 127.4/11$

Left:  $-0.243 \pm 0.146$   $\chi^2/\text{NDF}: 295.9/23$   
 Right:  $0.937 \pm 0.244$   $\chi^2/\text{NDF}: 84.9/33$   
 In:  $-0.005 \pm 0.175$   $\chi^2/\text{NDF}: 181.6/27$   
 Out:  $0.145 \pm 0.180$   $\chi^2/\text{NDF}: 216.0/29$   
 All:  $0.068 \pm 0.125$   $\chi^2/\text{NDF}: 398.0/57$

reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-52.148 \pm 0.612$   $\chi^2/\text{NDF}: 230.2/15$

Left Out:  $-51.921 \pm 0.299$   $\chi^2/\text{NDF}: 517.1/11$

Right Out:  $-52.346 \pm 0.616$   $\chi^2/\text{NDF}: 235.7/17$

Left In:  $-53.539 \pm 0.286$   $\chi^2/\text{NDF}: 430.3/11$

Left:  $-52.768 \pm 0.207$   $\chi^2/\text{NDF}: 962.8/23$

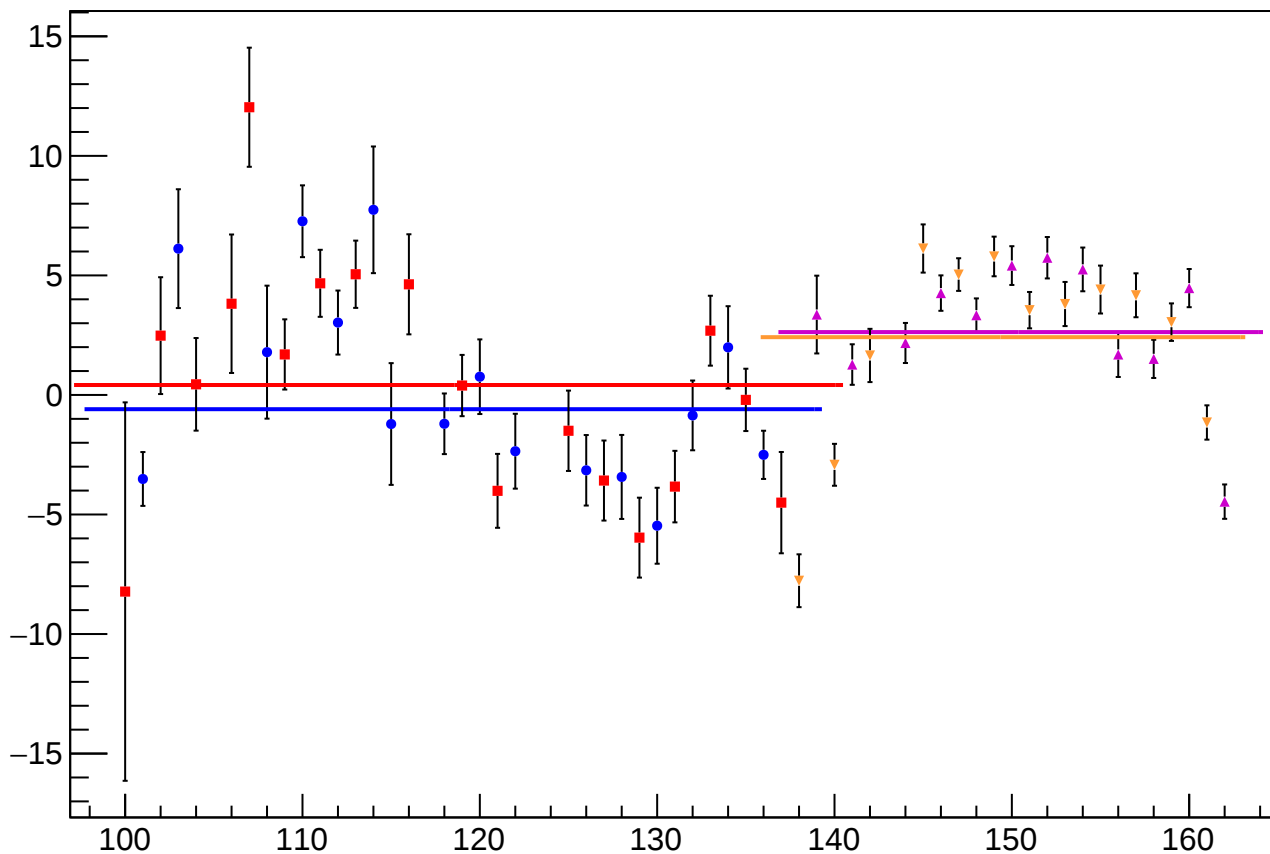
Right:  $-52.246 \pm 0.434$   $\chi^2/\text{NDF}: 466.0/33$

In:  $-53.290 \pm 0.259$   $\chi^2/\text{NDF}: 664.8/27$

Out:  $-52.002 \pm 0.269$   $\chi^2/\text{NDF}: 753.2/29$

All:  $-52.671 \pm 0.187$   $\chi^2/\text{NDF}: 1429.9/57$

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.596 \pm 0.384$   $\chi^2/\text{NDF}$ : 82.6/15

Left Out:  $2.417 \pm 0.249$   $\chi^2/\text{NDF}$ : 204.8/11

Right Out:  $0.416 \pm 0.400$   $\chi^2/\text{NDF}$ : 95.8/17

Left In:  $2.629 \pm 0.241$   $\chi^2/\text{NDF}$ : 147.3/11

Left:  $2.527 \pm 0.173$   $\chi^2/\text{NDF}$ : 352.5/23

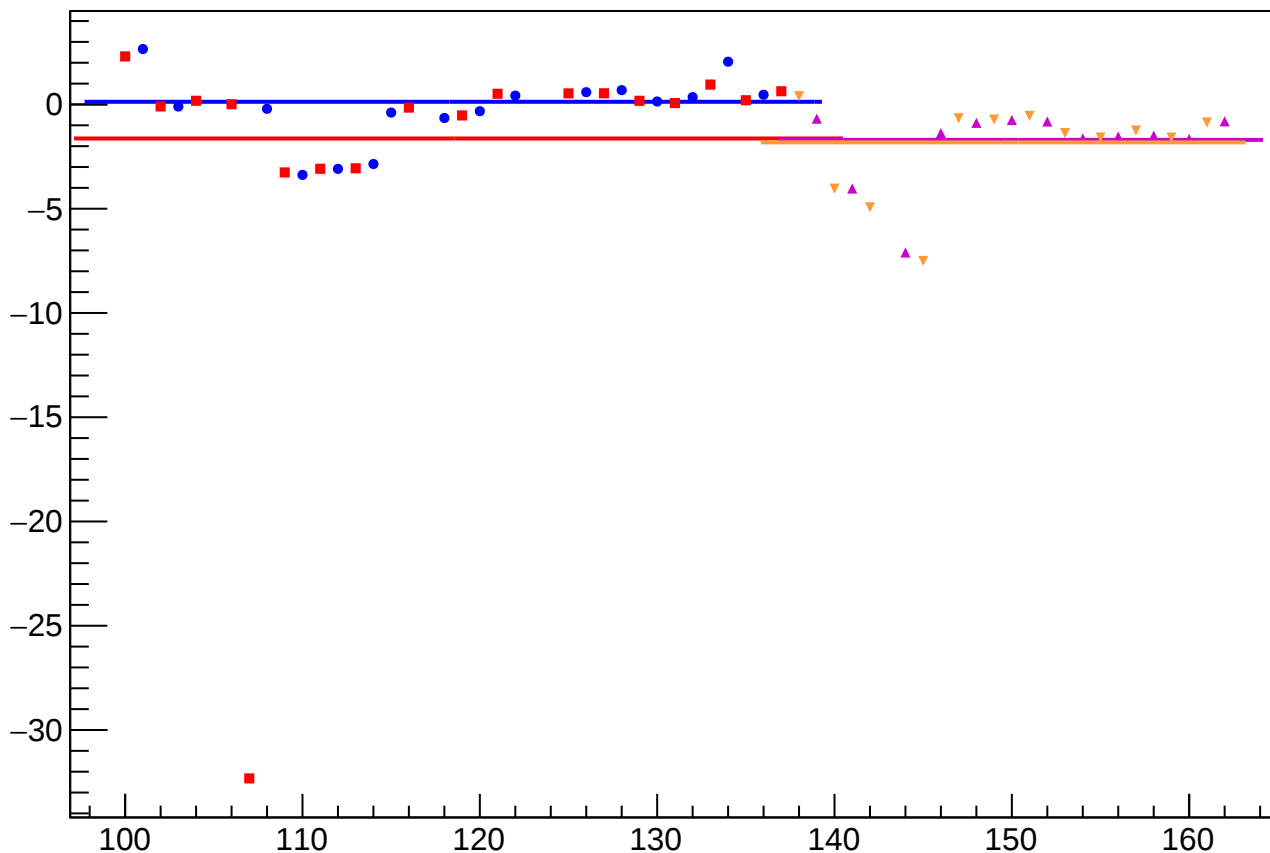
Right:  $-0.111 \pm 0.277$   $\chi^2/\text{NDF}$ : 181.7/33

In:  $1.720 \pm 0.204$   $\chi^2/\text{NDF}$ : 280.6/27

Out:  $1.858 \pm 0.211$   $\chi^2/\text{NDF}$ : 318.7/29

All:  $1.786 \pm 0.147$   $\chi^2/\text{NDF}$ : 599.5/57

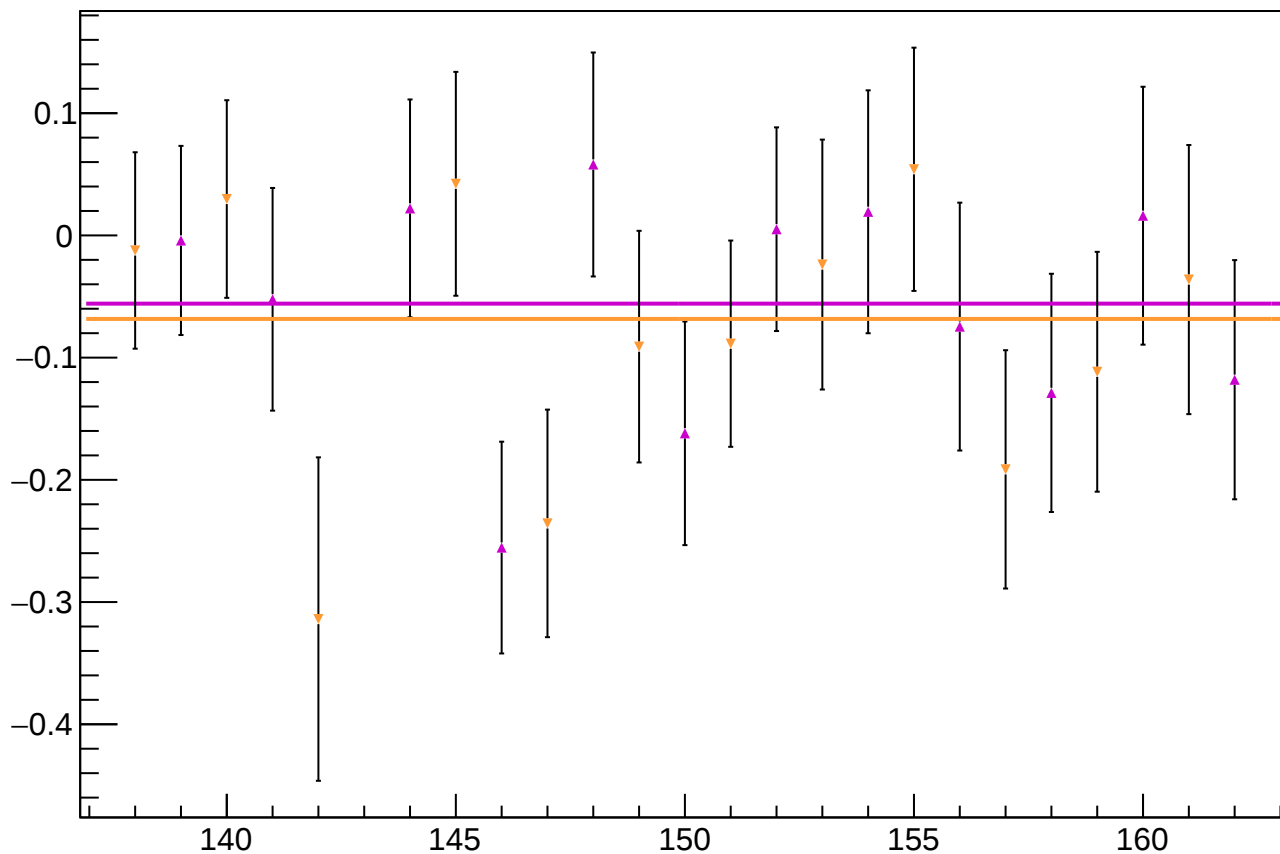
reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.128 \pm 0.021$   $\chi^2/\text{NDF}: 5252.9/15$   
 Left Out:  $-1.819 \pm 0.012$   $\chi^2/\text{NDF}: 29307.5/11$   
 Right Out:  $-1.631 \pm 0.022$   $\chi^2/\text{NDF}: 77878.6/17$   
 Left In:  $-1.699 \pm 0.011$   $\chi^2/\text{NDF}: 19771.0/11$

Left:  $-1.756 \pm 0.008$   $\chi^2/\text{NDF}: 49134.5/23$   
 Right:  $-0.739 \pm 0.015$   $\chi^2/\text{NDF}: 86433.1/33$   
 In:  $-1.312 \pm 0.010$   $\chi^2/\text{NDF}: 30719.2/27$   
 Out:  $-1.777 \pm 0.010$   $\chi^2/\text{NDF}: 107244.1/29$   
 All:  $-1.536 \pm 0.007$   $\chi^2/\text{NDF}: 139025.7/57$

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.068 $\pm$ 0.027  $\chi^2$ /NDF:13.8/11

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

Left In: -0.056 $\pm$ 0.026  $\chi^2$ /NDF:12.0/11

Left: -0.062 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/23

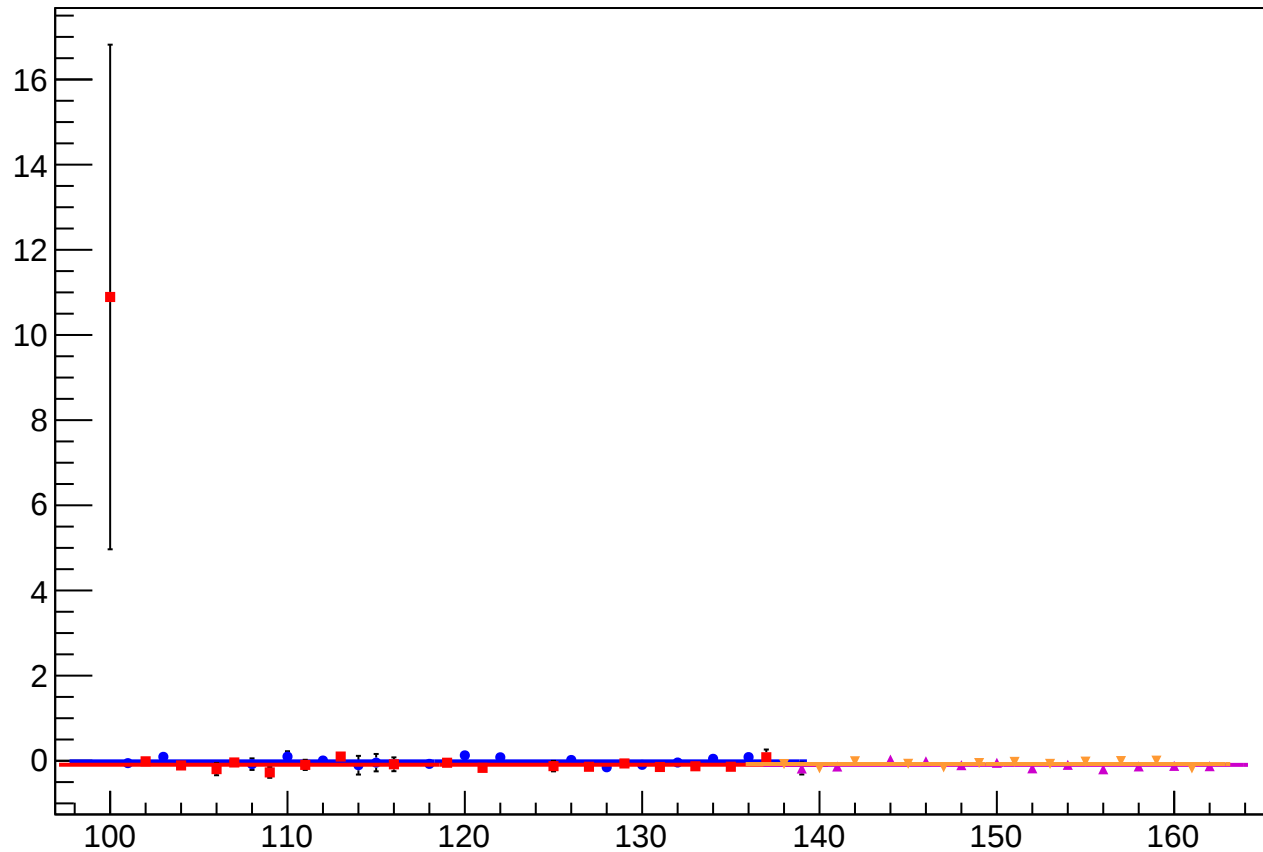
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.056 $\pm$ 0.026  $\chi^2$ /NDF:12.0/11

Out: -0.068 $\pm$ 0.027  $\chi^2$ /NDF:13.8/11

All: -0.062 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/23

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.013 \pm 0.023$   $\chi^2/\text{NDF}$ : 12.2/15

Left Out:  $-0.075 \pm 0.019$   $\chi^2/\text{NDF}$ : 12.1/11

Right Out:  $-0.092 \pm 0.025$   $\chi^2/\text{NDF}$ : 12.7/17

Left In:  $-0.096 \pm 0.018$   $\chi^2/\text{NDF}$ : 12.2/11

Left:  $-0.086 \pm 0.013$   $\chi^2/\text{NDF}$ : 24.9/23

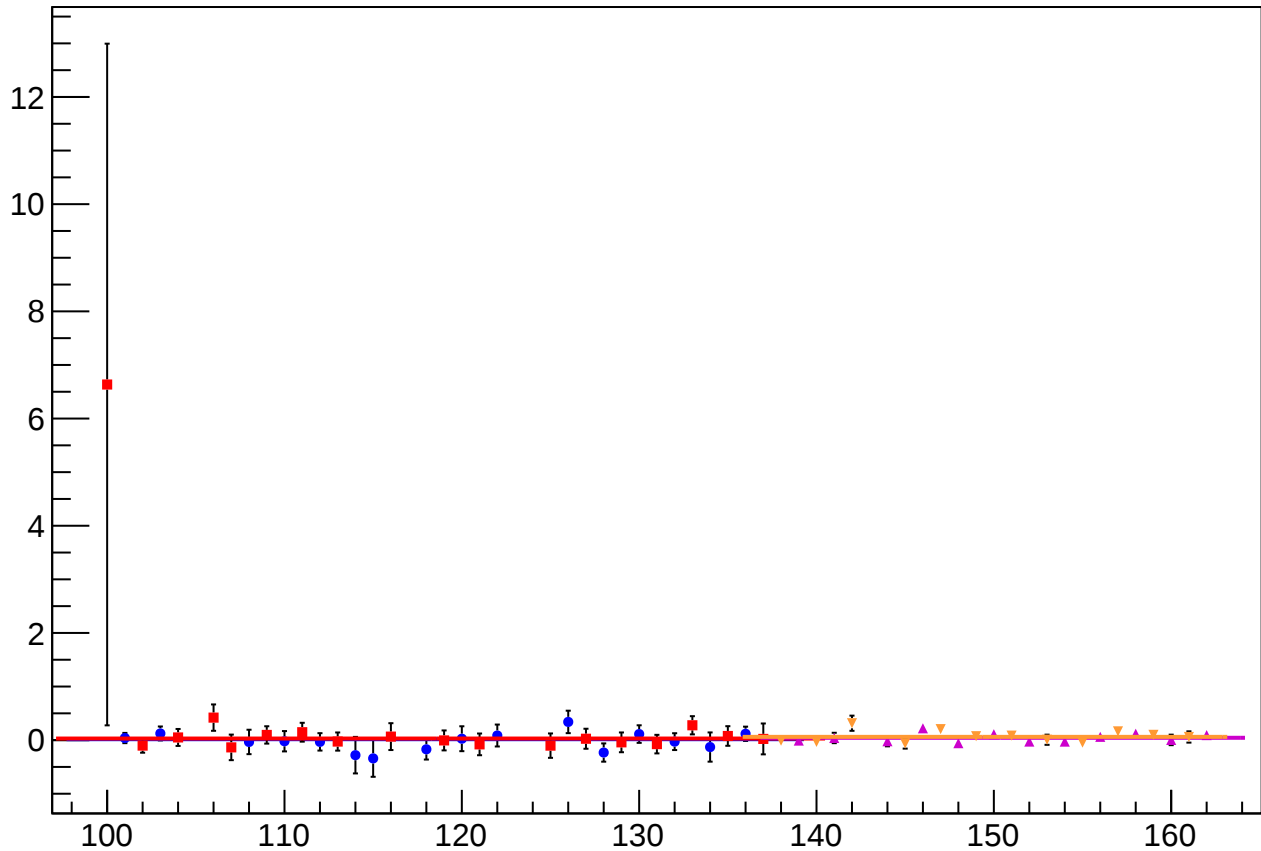
Right:  $-0.050 \pm 0.017$   $\chi^2/\text{NDF}$ : 30.3/33

In:  $-0.064 \pm 0.014$   $\chi^2/\text{NDF}$ : 32.2/27

Out:  $-0.081 \pm 0.015$   $\chi^2/\text{NDF}$ : 25.0/29

All:  $-0.072 \pm 0.010$   $\chi^2/\text{NDF}$ : 58.0/57

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.017+/-0.043  $\chi^2/\text{NDF}$ : 9.6/15

Left Out: 0.061+/-0.027  $\chi^2/\text{NDF}$ :12.7/11

Right Out: 0.030+/-0.045  $\chi^2/\text{NDF}$ : 9.2/17

Left In: 0.044+/-0.026  $\chi^2/\text{NDF}$ :9.9/11

Left: 0.052+/-0.019  $\chi^2/\text{NDF}$ : 22.8/23

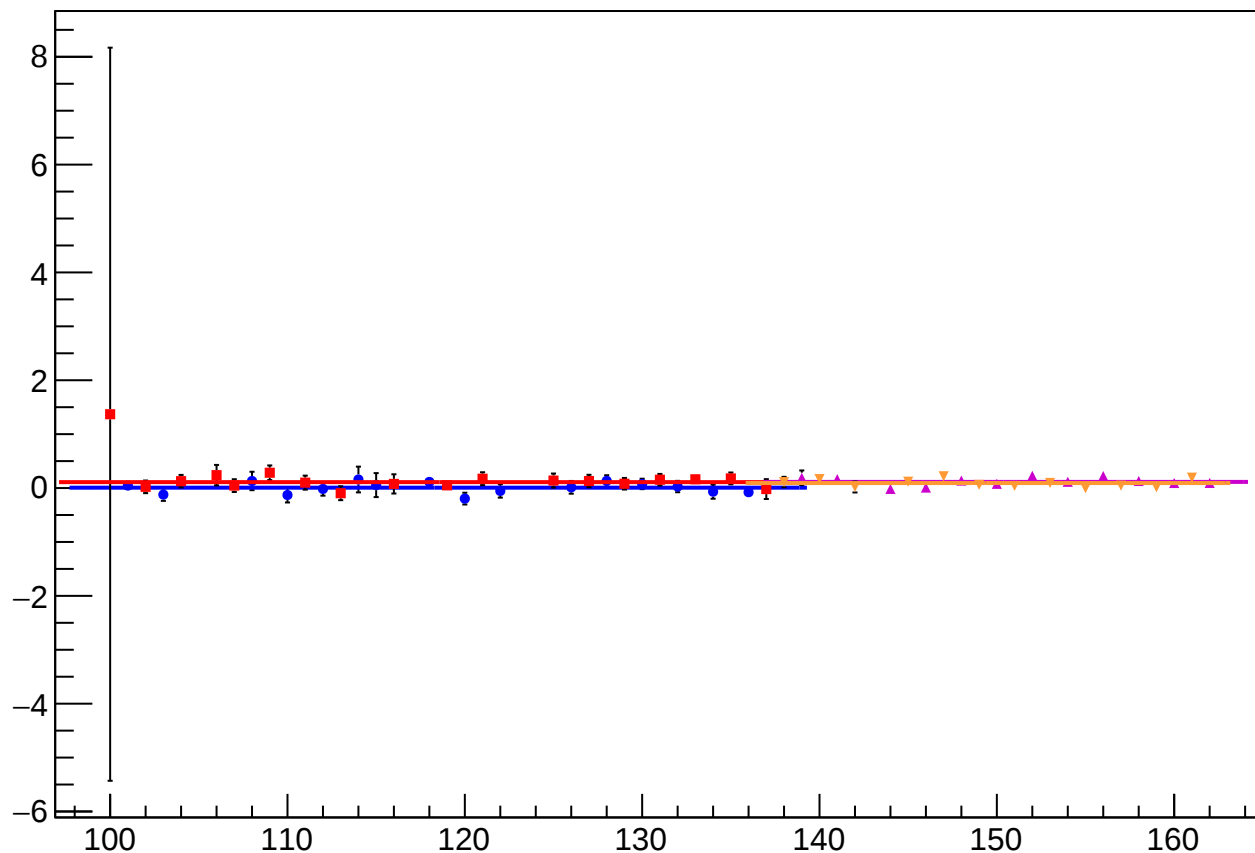
Right: 0.023+/-0.031  $\chi^2/\text{NDF}$ : 18.9/33

In: 0.037+/-0.022  $\chi^2/\text{NDF}$ :19.8/27

Out: 0.053+/-0.023  $\chi^2/\text{NDF}$ :22.3/29

All: 0.045+/-0.016  $\chi^2/\text{NDF}$ : 42.4/57

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.027  $\chi^2$ /NDF: 12.1/15

Left Out: 0.093 $\pm$ 0.022  $\chi^2$ /NDF:11.2/11

Right Out: 0.110 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/17

Left In: 0.114 $\pm$ 0.022  $\chi^2$ /NDF:11.1/11

Left: 0.104 $\pm$ 0.016  $\chi^2$ /NDF: 22.7/23

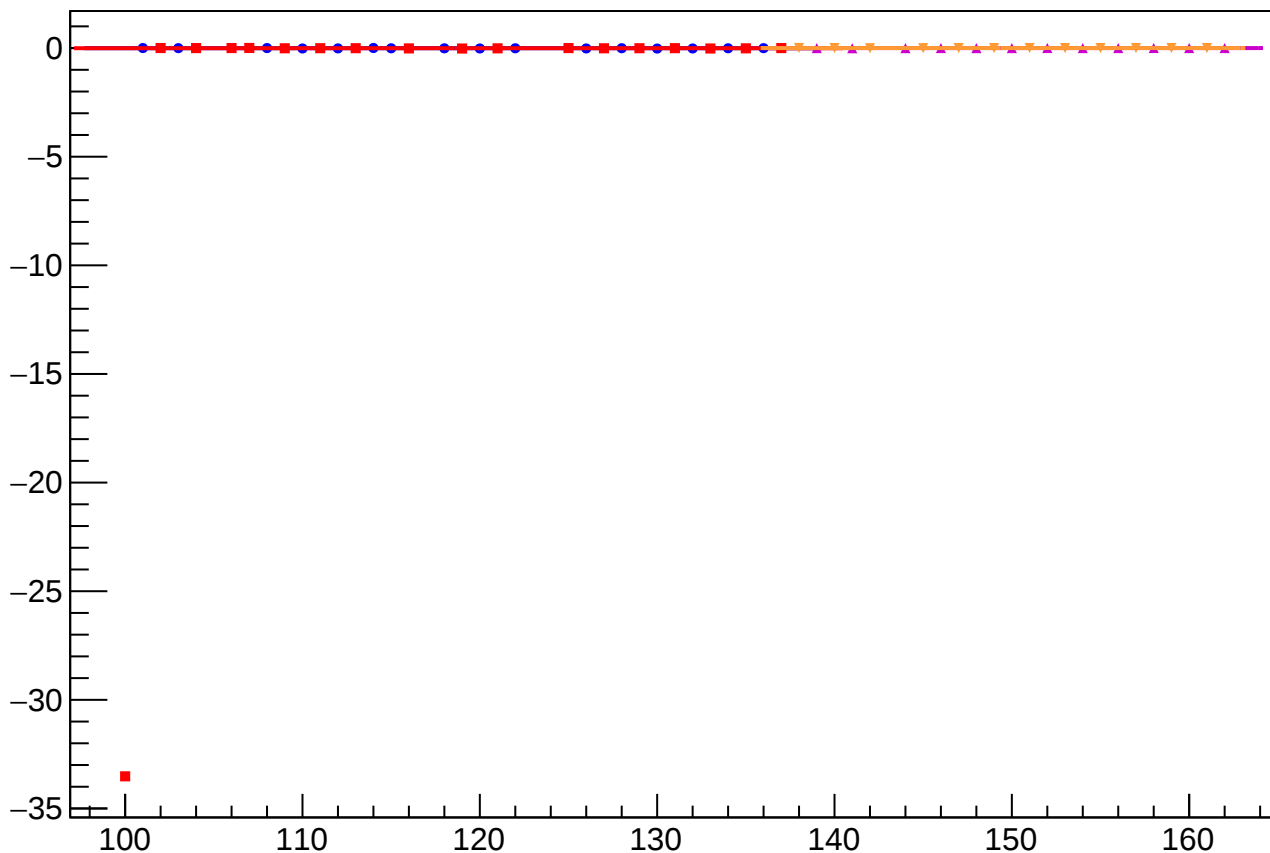
Right: 0.055 $\pm$ 0.020  $\chi^2$ /NDF: 27.0/33

In: 0.072 $\pm$ 0.017  $\chi^2$ /NDF:32.7/27

Out: 0.099 $\pm$ 0.018  $\chi^2$ /NDF:19.3/29

All: 0.085 $\pm$ 0.012  $\chi^2$ /NDF: 53.4/57

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 22.6/15

Left Out:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 7.3/11

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 26508.9/17

Left In:  $0.000 \pm 0.001$   $\chi^2/\text{NDF}$ : 7.4/11

Left:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 15.2/23

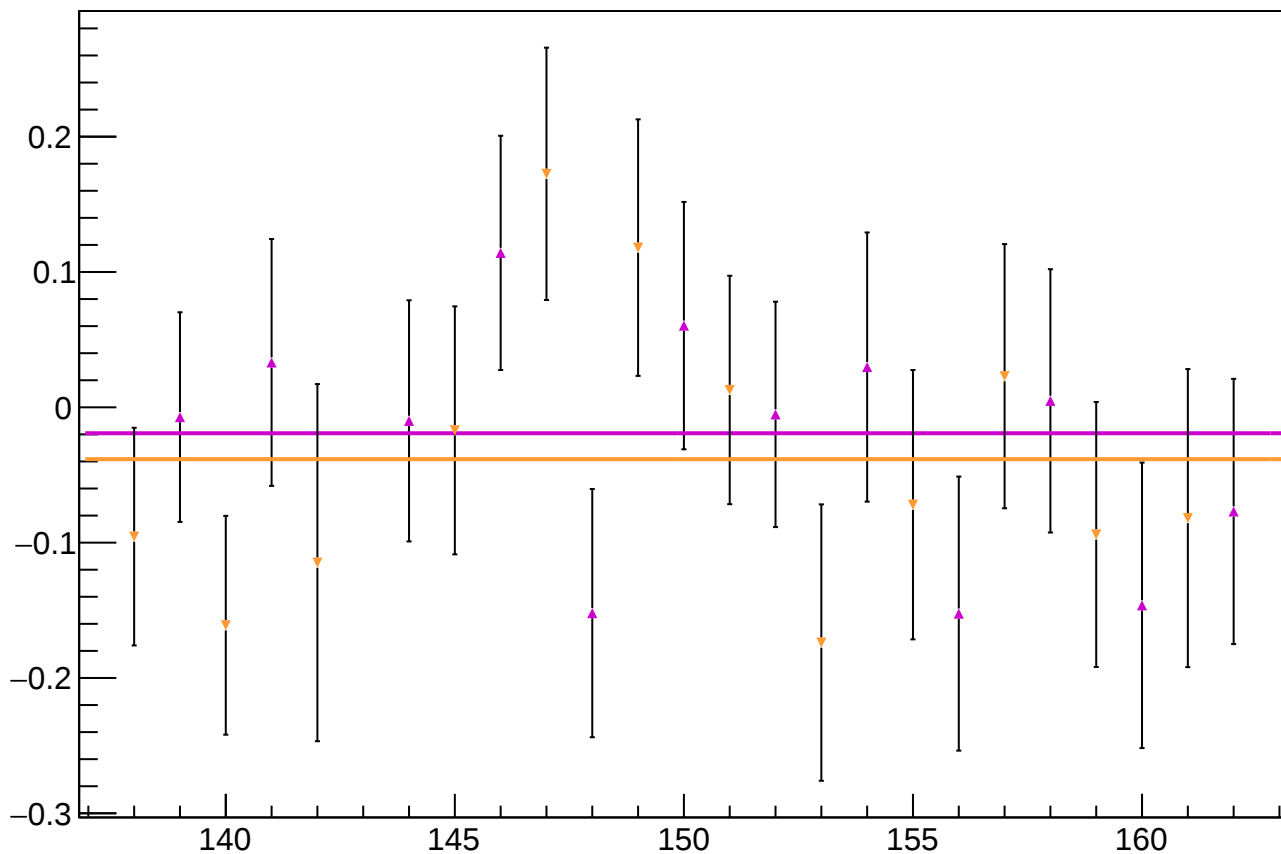
Right:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 26531.6/33

In:  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 40.3/27

Out:  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 26531.9/29

All:  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 26572.3/57

reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.038 $\pm$ 0.027  $\chi^2$ /NDF:14.2/11

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

Left In: -0.019 $\pm$ 0.026  $\chi^2$ /NDF:9.5/11

Left: -0.028 $\pm$ 0.019  $\chi^2$ /NDF: 23.9/23

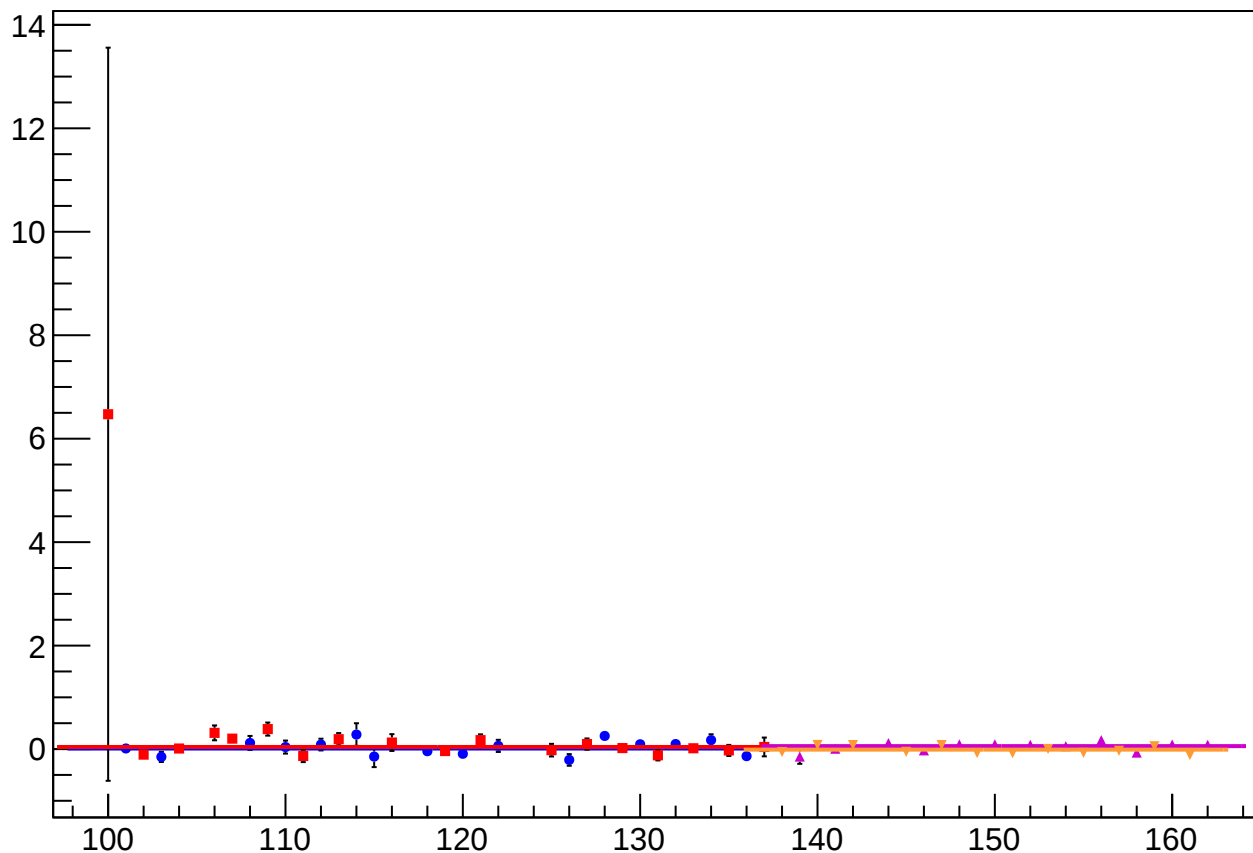
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.019 $\pm$ 0.026  $\chi^2$ /NDF:9.5/11

Out: -0.038 $\pm$ 0.027  $\chi^2$ /NDF:14.2/11

All: -0.028 $\pm$ 0.019  $\chi^2$ /NDF: 23.9/23

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.023  $\chi^2$ /NDF: 25.4/15

Left Out: -0.011 $\pm$ 0.019  $\chi^2$ /NDF:14.3/11

Right Out: 0.040 $\pm$ 0.025  $\chi^2$ /NDF: 27.9/17

Left In: 0.057 $\pm$ 0.018  $\chi^2$ /NDF:13.6/11

Left: 0.023 $\pm$ 0.013  $\chi^2$ /NDF: 34.6/23

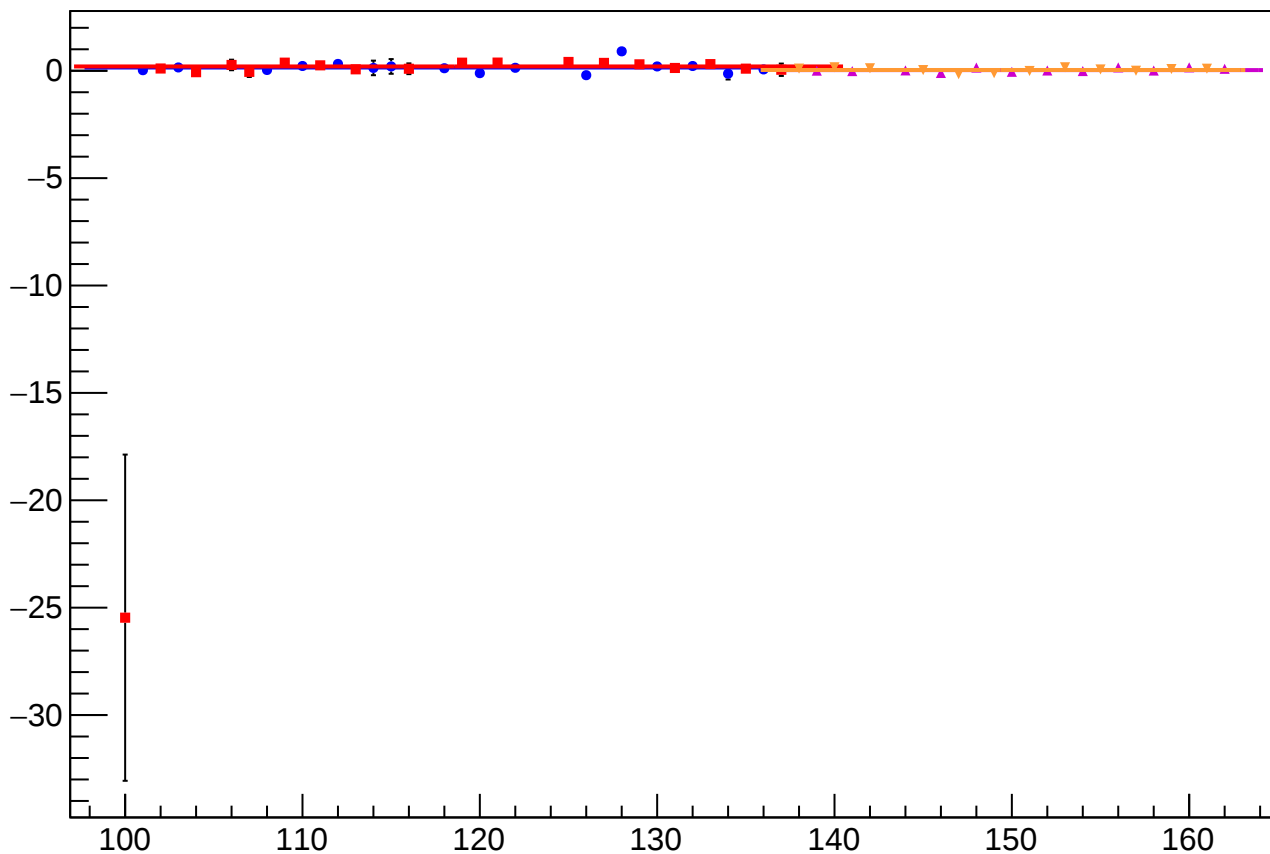
Right: 0.024 $\pm$ 0.017  $\chi^2$ /NDF: 54.1/33

In: 0.039 $\pm$ 0.014  $\chi^2$ /NDF:41.5/27

Out: 0.008 $\pm$ 0.015  $\chi^2$ /NDF:45.0/29

All: 0.024 $\pm$ 0.010  $\chi^2$ /NDF: 88.8/57

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.152 $\pm$ 0.043  $\chi^2$ /NDF: 28.7/15

Left Out: 0.036 $\pm$ 0.027  $\chi^2$ /NDF:13.7/11

Right Out: 0.200 $\pm$ 0.045  $\chi^2$ /NDF: 22.9/17

Left In: 0.031 $\pm$ 0.026  $\chi^2$ /NDF:9.9/11

Left: 0.033 $\pm$ 0.019  $\chi^2$ /NDF: 23.6/23

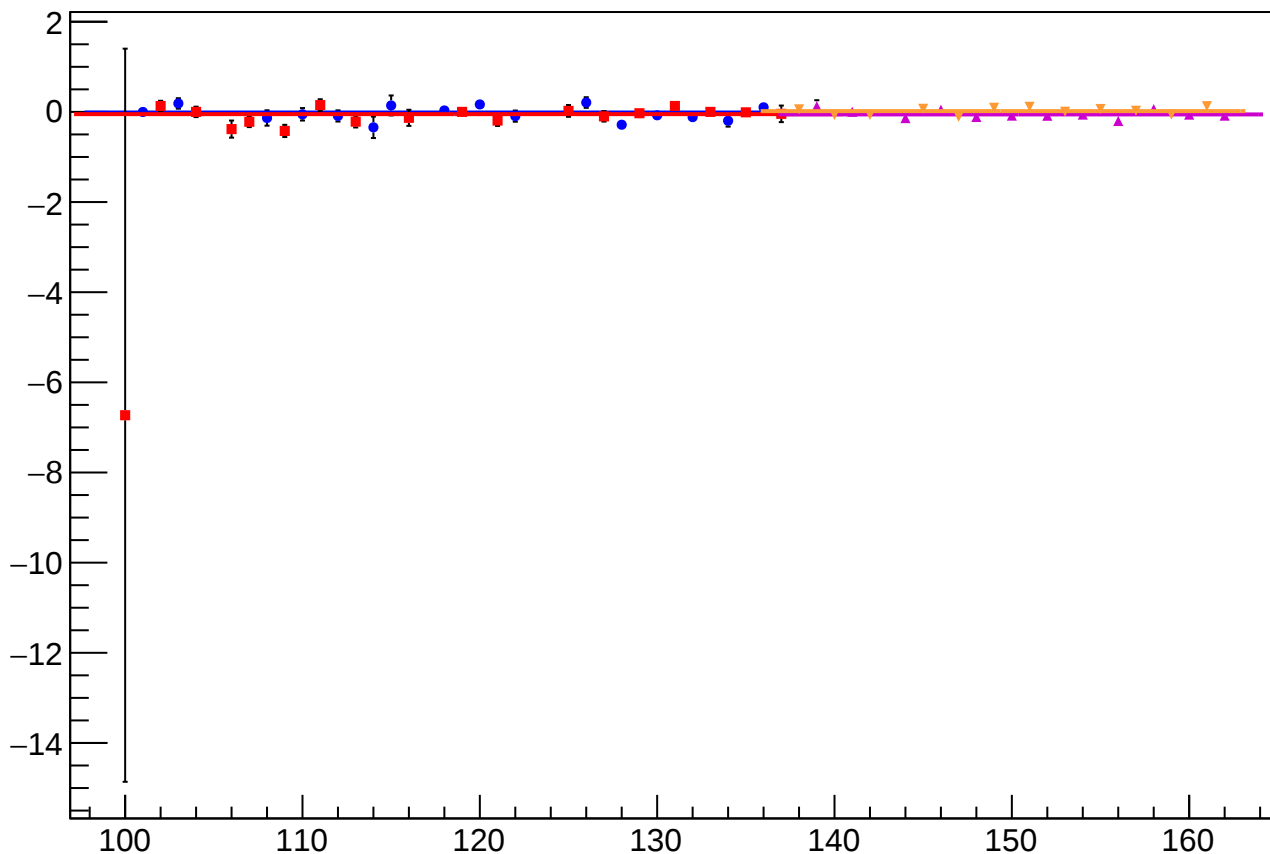
Right: 0.175 $\pm$ 0.031  $\chi^2$ /NDF: 52.2/33

In: 0.063 $\pm$ 0.022  $\chi^2$ /NDF:44.5/27

Out: 0.079 $\pm$ 0.023  $\chi^2$ /NDF:46.5/29

All: 0.071 $\pm$ 0.016  $\chi^2$ /NDF: 91.3/57

reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.014 \pm 0.027$   $\chi^2/\text{NDF}$ : 25.2/15

Left Out:  $0.017 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.4/11

Right Out:  $-0.050 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.7/17

Left In:  $-0.056 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.4/11

Left:  $-0.020 \pm 0.016$   $\chi^2/\text{NDF}$ : 32.3/23

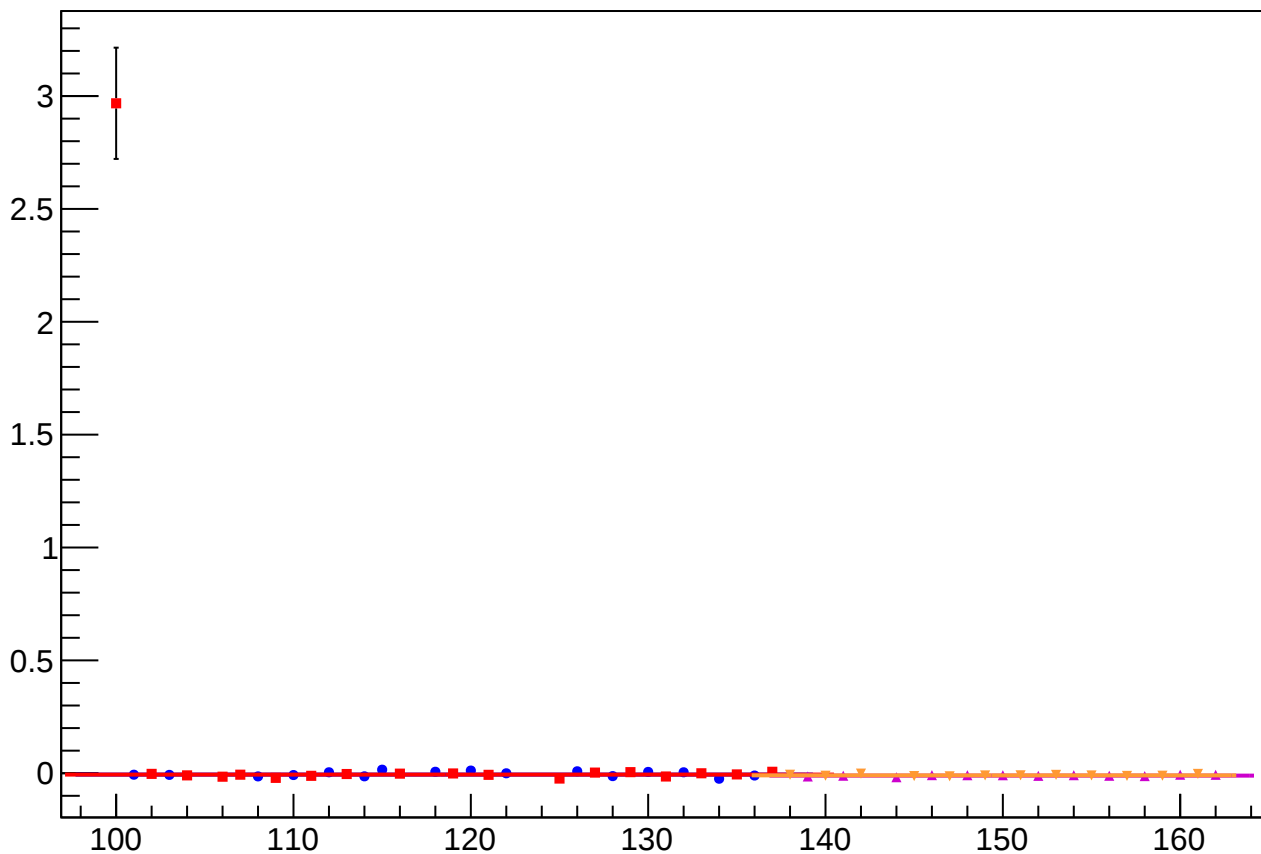
Right:  $-0.031 \pm 0.020$   $\chi^2/\text{NDF}$ : 51.8/33

In:  $-0.039 \pm 0.017$   $\chi^2/\text{NDF}$ : 40.1/27

Out:  $-0.008 \pm 0.018$   $\chi^2/\text{NDF}$ : 42.6/29

All:  $-0.024 \pm 0.012$   $\chi^2/\text{NDF}$ : 84.2/57

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001  $\chi^2$ /NDF: 29.0/15

Left Out: -0.009+/-0.001  $\chi^2$ /NDF:8.5/11

Right Out: -0.006+/-0.001  $\chi^2$ /NDF: 165.9/17

Left In: -0.011+/-0.001  $\chi^2$ /NDF:8.4/11

Left: -0.010+/-0.001  $\chi^2$ /NDF: 17.6/23

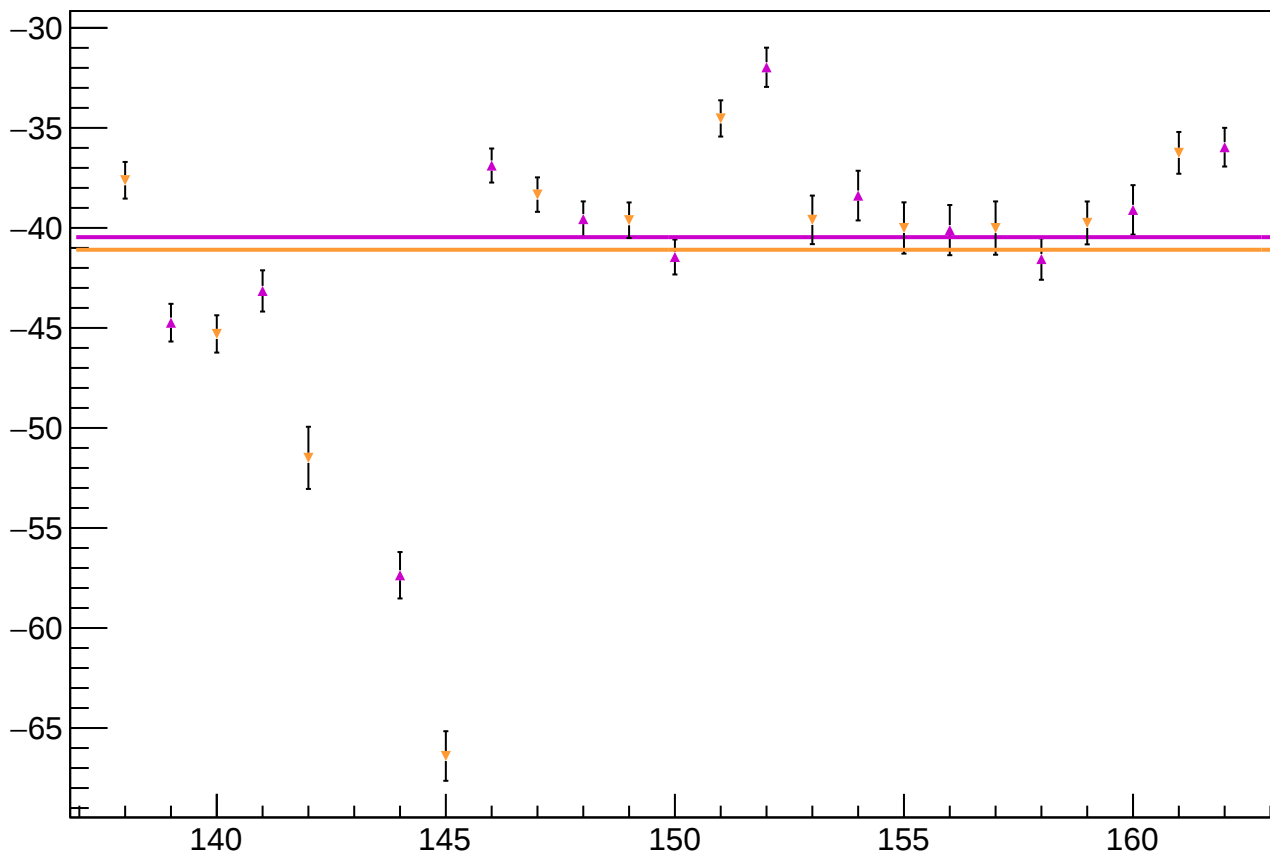
Right: -0.006+/-0.001  $\chi^2$ /NDF: 194.8/33

In: -0.009+/-0.001  $\chi^2$ /NDF:44.2/27

Out: -0.008+/-0.001  $\chi^2$ /NDF:178.0/29

All: -0.009+/-0.001  $\chi^2$ /NDF: 222.7/57

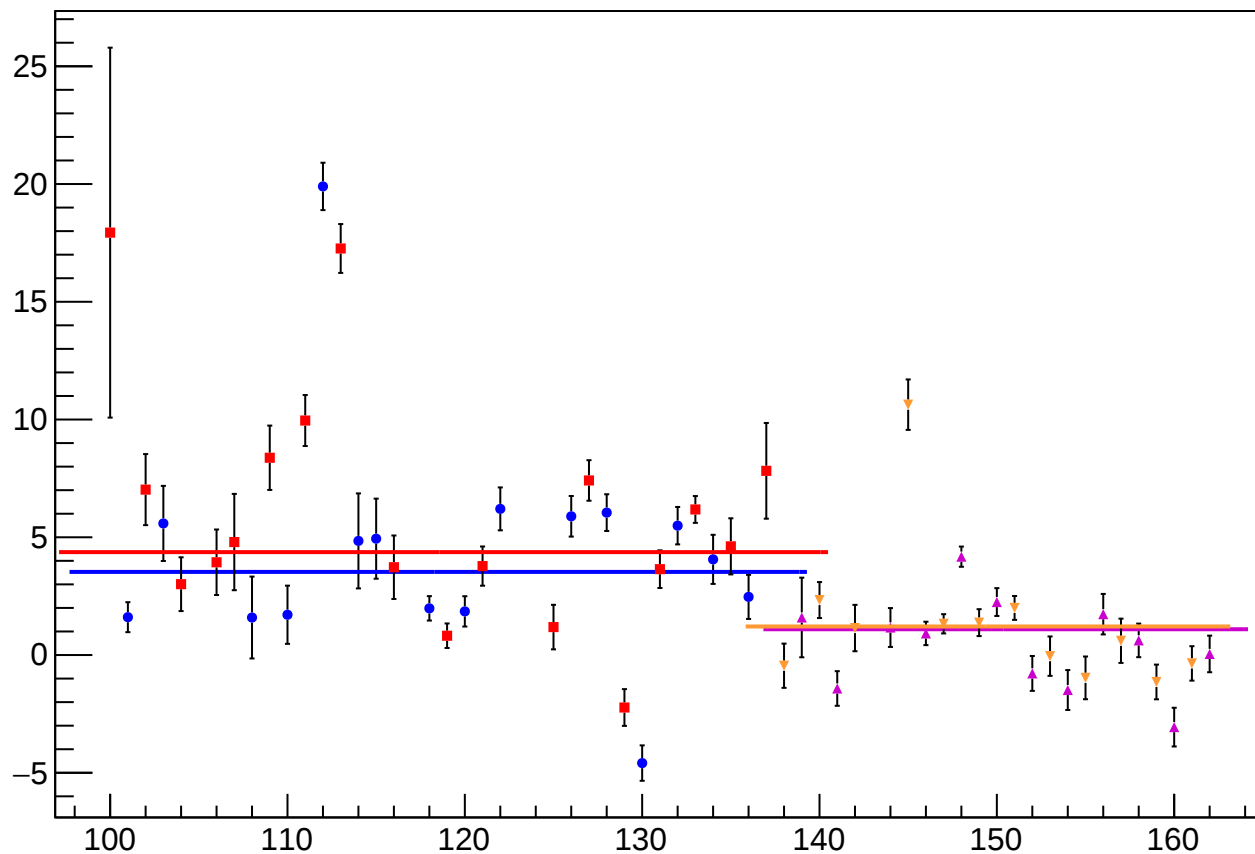
reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.092+/-0.303  $\chi^2/\text{NDF}$ :587.9/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.462+/-0.292  $\chi^2/\text{NDF}$ :361.4/11

Left: -40.765+/-0.210  $\chi^2/\text{NDF}$ : 951.5/23  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -40.462+/-0.292  $\chi^2/\text{NDF}$ :361.4/11  
 Out: -41.092+/-0.303  $\chi^2/\text{NDF}$ :587.9/11  
 All: -40.765+/-0.210  $\chi^2/\text{NDF}$ : 951.5/23

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.530 \pm 0.217$   $\chi^2/\text{NDF}: 446.6/15$

Left Out:  $1.212 \pm 0.199$   $\chi^2/\text{NDF}: 108.5/11$

Right Out:  $4.370 \pm 0.225$   $\chi^2/\text{NDF}: 353.8/17$

Left In:  $1.095 \pm 0.197$   $\chi^2/\text{NDF}: 111.4/11$

Left:  $1.153 \pm 0.140$   $\chi^2/\text{NDF}: 220.0/23$

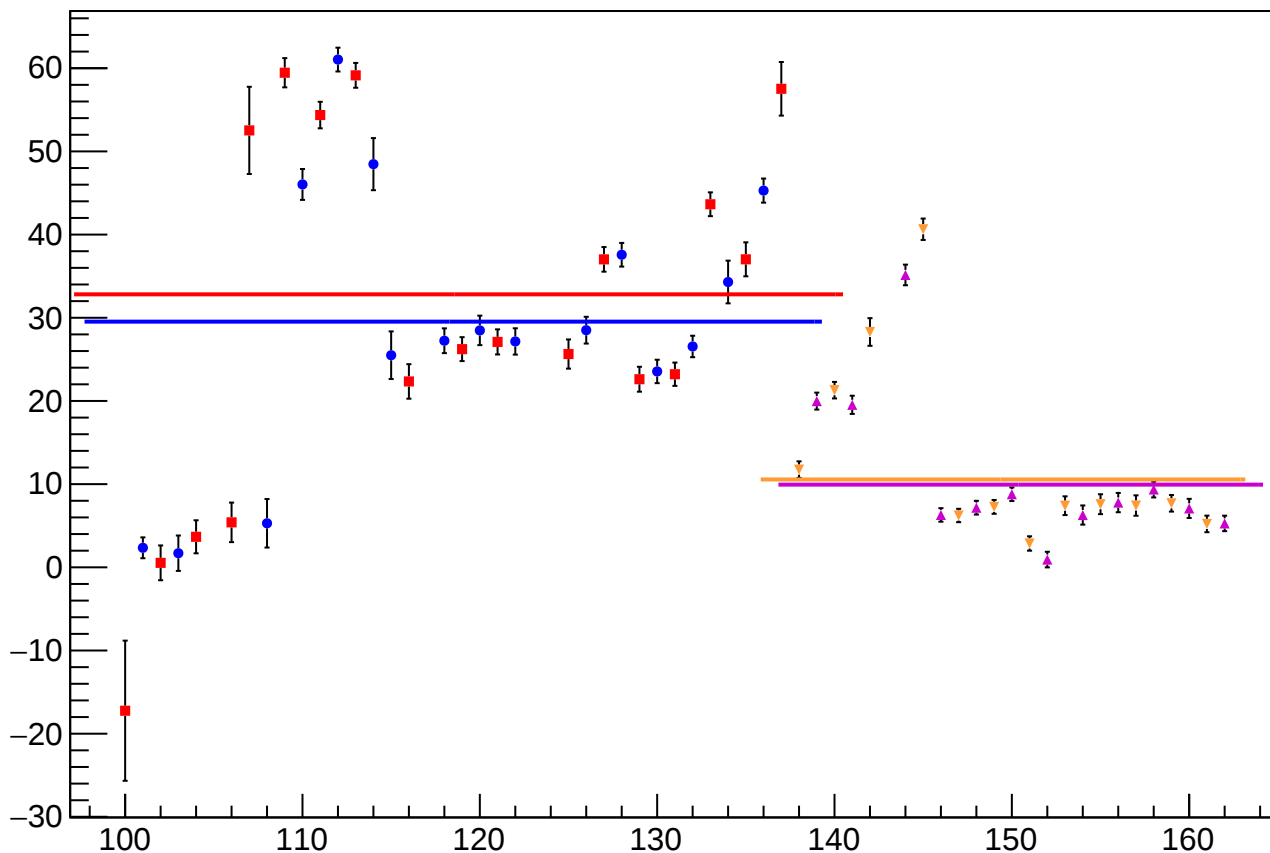
Right:  $3.934 \pm 0.156$   $\chi^2/\text{NDF}: 807.6/33$

In:  $2.195 \pm 0.146$   $\chi^2/\text{NDF}: 626.8/27$

Out:  $2.598 \pm 0.149$   $\chi^2/\text{NDF}: 572.4/29$

All:  $2.392 \pm 0.104$   $\chi^2/\text{NDF}: 1202.9/57$

reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.535 $\pm$ 0.417  $\chi^2$ /NDF: 1494.9/15

Left Out: 10.562 $\pm$ 0.295  $\chi^2$ /NDF: 960.0/11

Right Out: 32.816 $\pm$ 0.423  $\chi^2$ /NDF: 1659.3/17

Left In: 9.941 $\pm$ 0.283  $\chi^2$ /NDF: 756.5/11

Left: 10.238 $\pm$ 0.204  $\chi^2$ /NDF: 1718.8/23

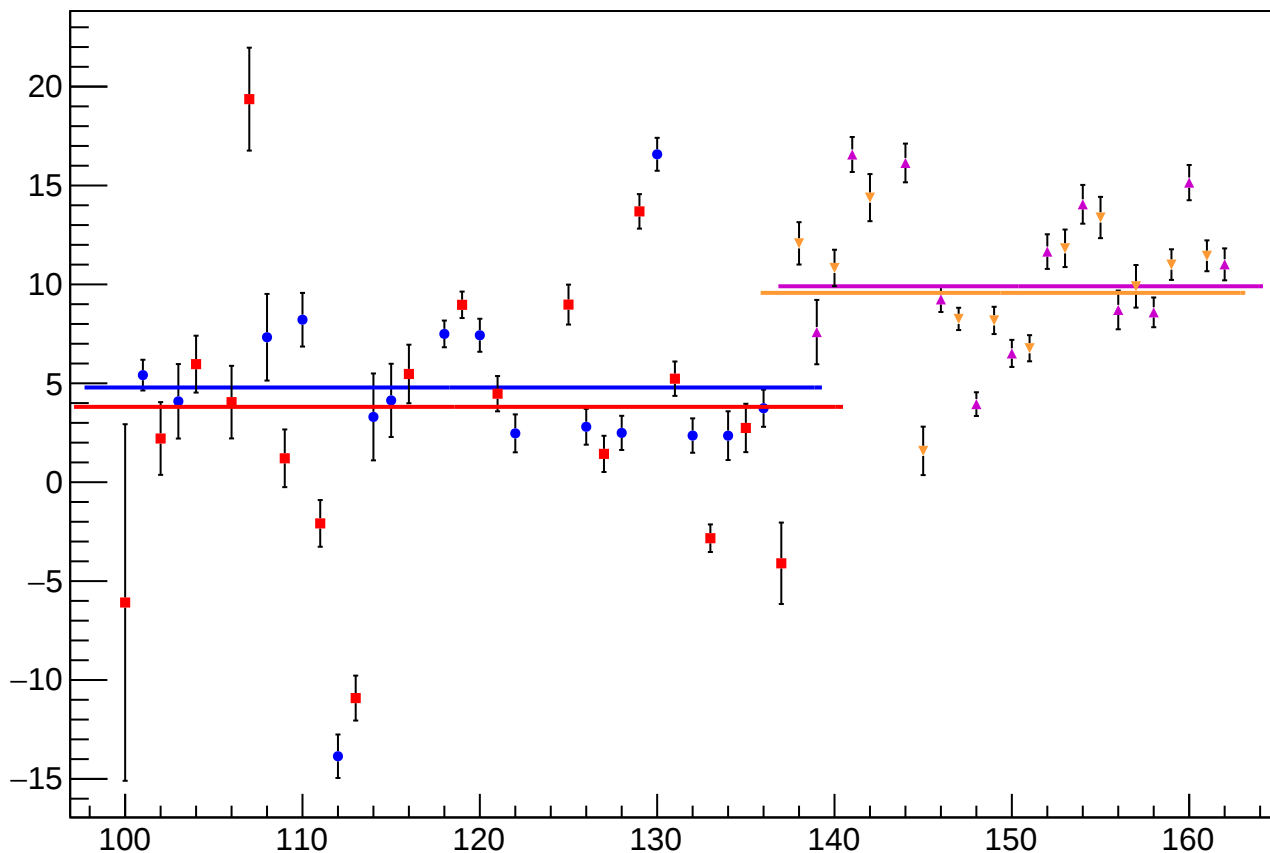
Right: 31.152 $\pm$ 0.297  $\chi^2$ /NDF: 3184.7/33

In: 16.110 $\pm$ 0.234  $\chi^2$ /NDF: 3765.8/27

Out: 17.849 $\pm$ 0.242  $\chi^2$ /NDF: 4482.2/29

All: 16.950 $\pm$ 0.168  $\chi^2$ /NDF: 8274.7/57

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.789 \pm 0.251$   $\chi^2/\text{NDF}: 553.9/15$

Left Out:  $9.572 \pm 0.241$   $\chi^2/\text{NDF}: 121.9/11$

Right Out:  $3.809 \pm 0.259$   $\chi^2/\text{NDF}: 567.6/17$

Left In:  $9.906 \pm 0.235$   $\chi^2/\text{NDF}: 286.6/11$

Left:  $9.743 \pm 0.169$   $\chi^2/\text{NDF}: 409.5/23$

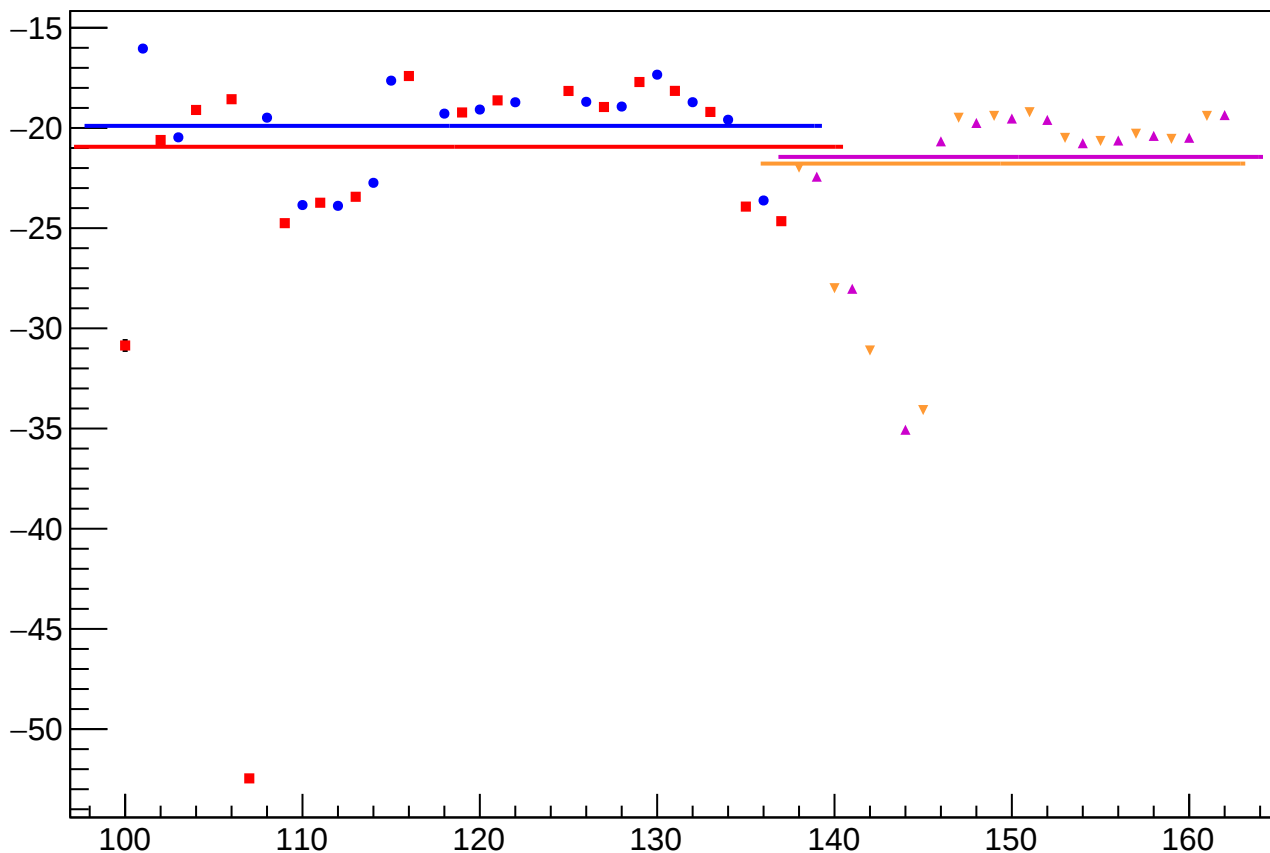
Right:  $4.313 \pm 0.180$   $\chi^2/\text{NDF}: 1128.9/33$

In:  $7.513 \pm 0.172$   $\chi^2/\text{NDF}: 1061.3/27$

Out:  $6.892 \pm 0.177$   $\chi^2/\text{NDF}: 954.7/29$

All:  $7.211 \pm 0.123$   $\chi^2/\text{NDF}: 2022.4/57$

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -19.895+/-0.016  $\chi^2/\text{NDF}$ : 26073.6/15

Left Out: -21.777+/-0.012  $\chi^2/\text{NDF}$ :119488.3/11

Right Out: -20.938+/-0.016  $\chi^2/\text{NDF}$ : 94065.2/17

Left In: -21.444+/-0.011  $\chi^2/\text{NDF}$ :98912.3/11

Left: -21.601+/-0.008  $\chi^2/\text{NDF}$ : 218827.4/23

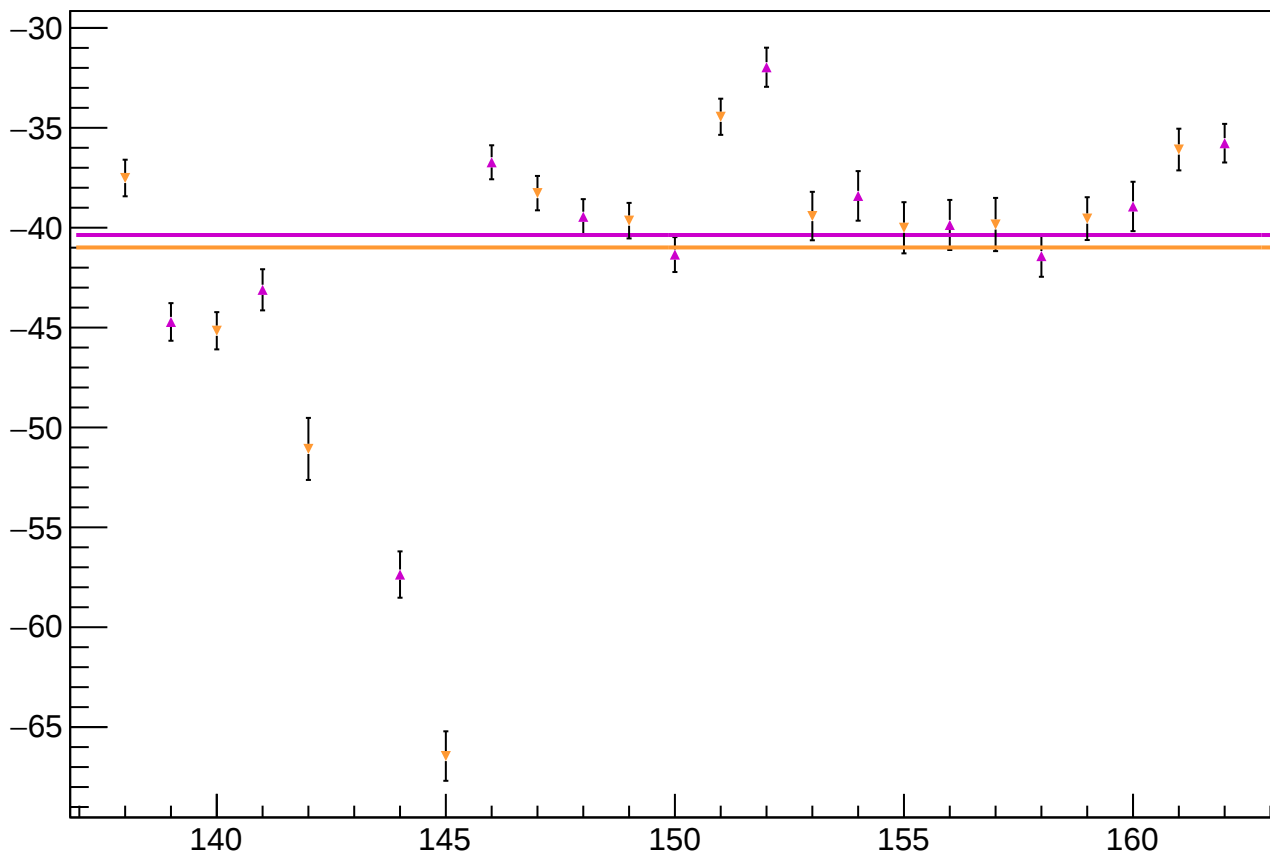
Right: -20.412+/-0.011  $\chi^2/\text{NDF}$ : 122364.1/33

In: -20.921+/-0.009  $\chi^2/\text{NDF}$ :131539.7/27

Out: -21.477+/-0.009  $\chi^2/\text{NDF}$ :215384.6/29

All: -21.188+/-0.007  $\chi^2/\text{NDF}$ : 348742.8/57

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.989+/-0.303  $\chi^2/\text{NDF}$ :590.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.366+/-0.291  $\chi^2/\text{NDF}$ :365.0/11

Left: -40.665+/-0.210  $\chi^2/\text{NDF}$ : 957.6/23

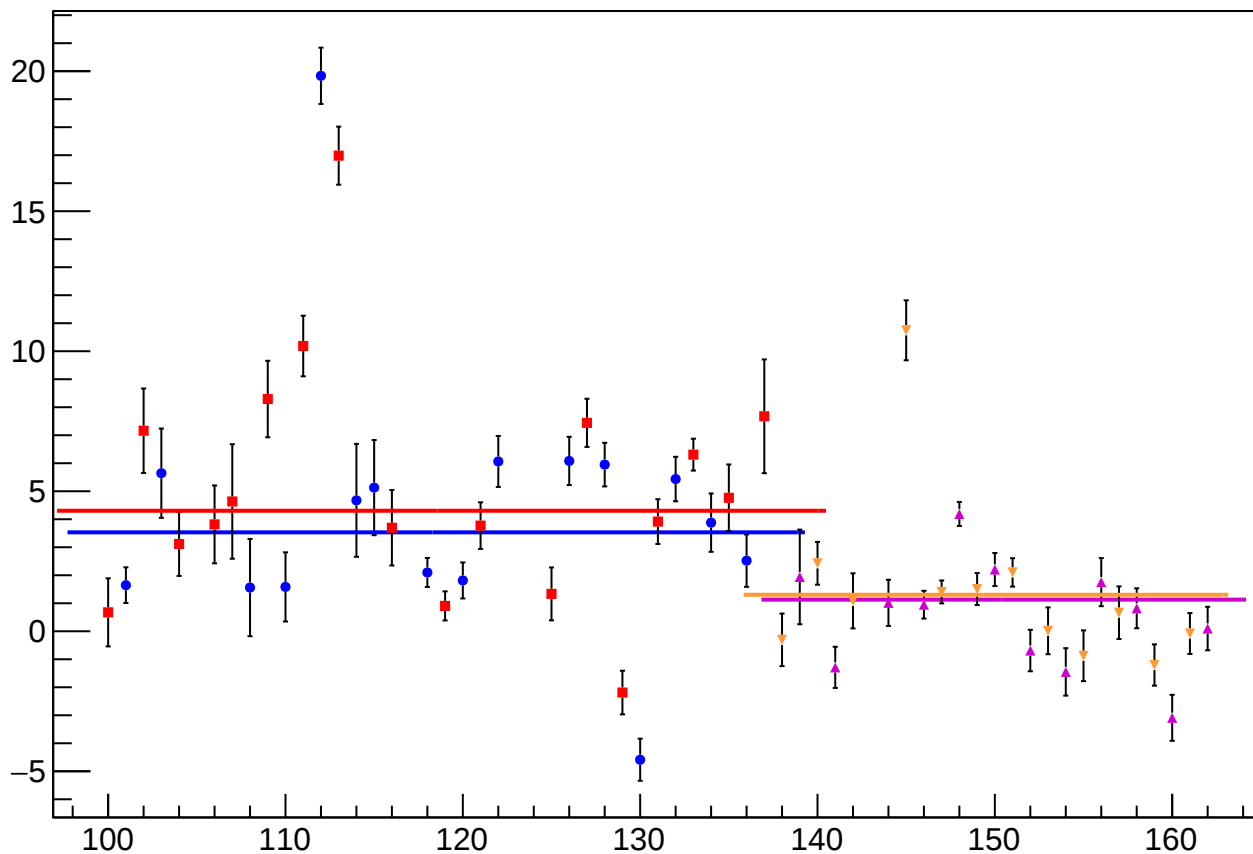
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.366+/-0.291  $\chi^2/\text{NDF}$ :365.0/11

Out: -40.989+/-0.303  $\chi^2/\text{NDF}$ :590.4/11

All: -40.665+/-0.210  $\chi^2/\text{NDF}$ : 957.6/23

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.532 \pm 0.217$   $\chi^2/\text{NDF}: 443.2/15$

Left Out:  $1.304 \pm 0.199$   $\chi^2/\text{NDF}: 109.4/11$

Right Out:  $4.303 \pm 0.222$   $\chi^2/\text{NDF}: 352.8/17$

Left In:  $1.129 \pm 0.197$   $\chi^2/\text{NDF}: 109.6/11$

Left:  $1.216 \pm 0.140$   $\chi^2/\text{NDF}: 219.4/23$

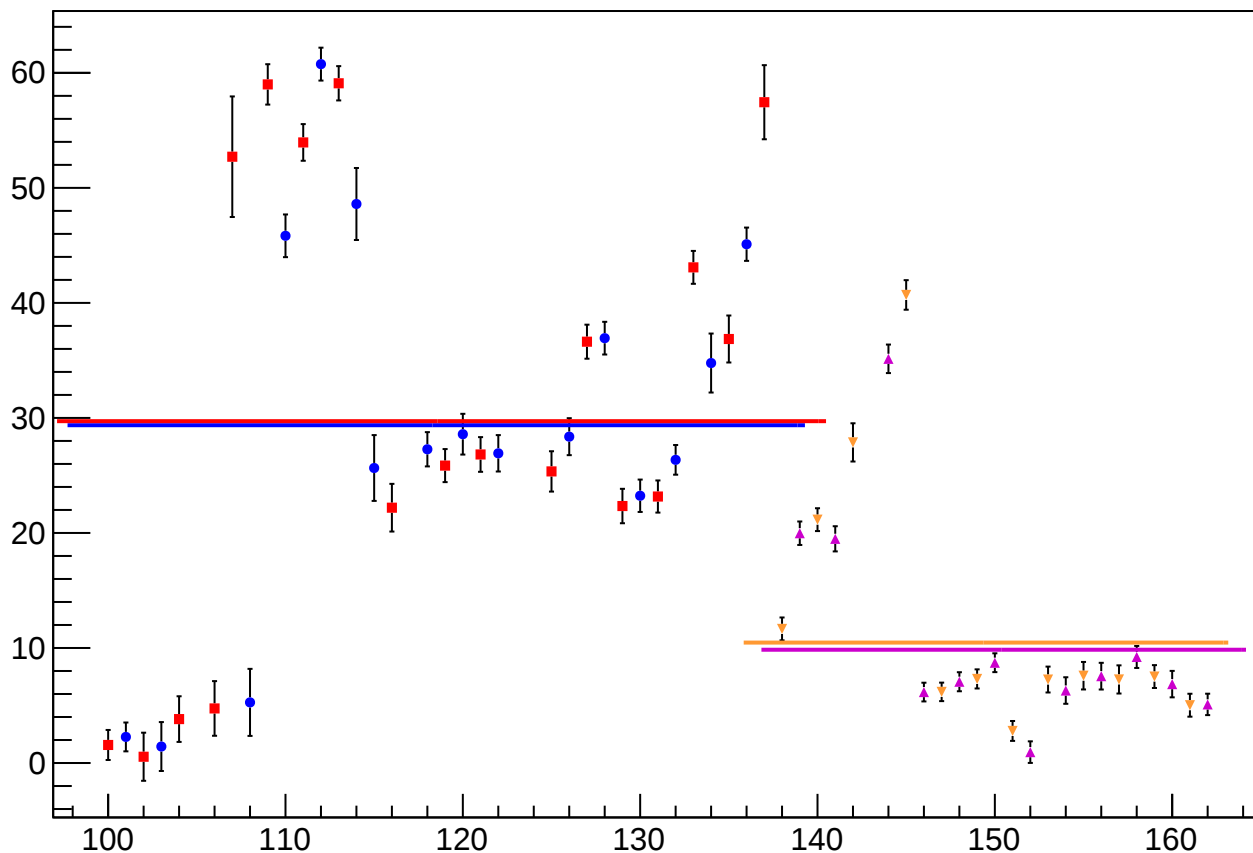
Right:  $3.910 \pm 0.155$   $\chi^2/\text{NDF}: 802.2/33$

In:  $2.215 \pm 0.146$   $\chi^2/\text{NDF}: 619.9/27$

Out:  $2.644 \pm 0.148$   $\chi^2/\text{NDF}: 563.6/29$

All:  $2.427 \pm 0.104$   $\chi^2/\text{NDF}: 1187.8/57$

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.367 $\pm$ 0.416  $\chi^2$ /NDF: 1488.7/15

Left Out: 10.469 $\pm$ 0.295  $\chi^2$ /NDF: 961.0/11

Right Out: 29.719 $\pm$ 0.402  $\chi^2$ /NDF: 2129.5/17

Left In: 9.847 $\pm$ 0.282  $\chi^2$ /NDF: 762.3/11

Left: 10.145 $\pm$ 0.204  $\chi^2$ /NDF: 1725.6/23

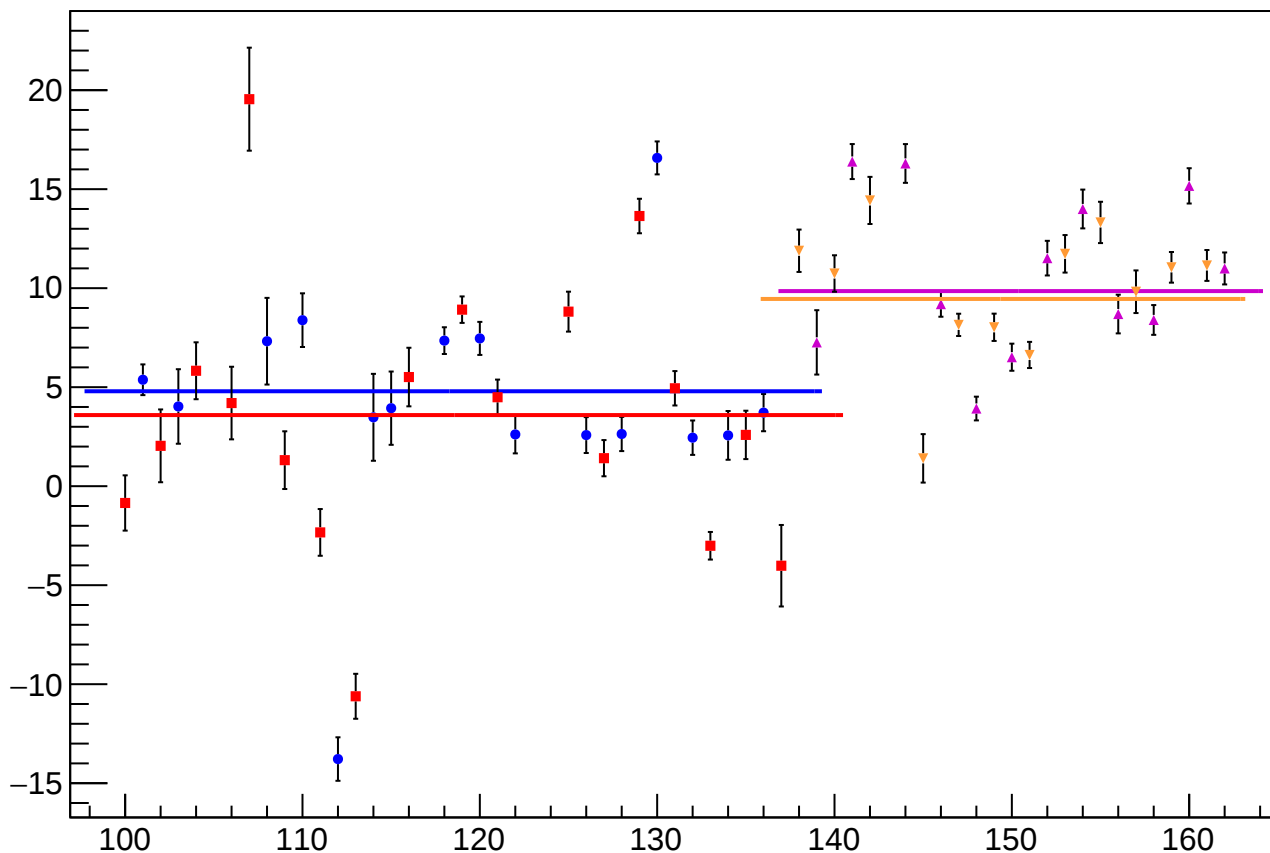
Right: 29.549 $\pm$ 0.289  $\chi^2$ /NDF: 3618.6/33

In: 15.993 $\pm$ 0.234  $\chi^2$ /NDF: 3756.0/27

Out: 17.193 $\pm$ 0.238  $\chi^2$ /NDF: 4579.2/29

All: 16.583 $\pm$ 0.167  $\chi^2$ /NDF: 8348.1/57

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.794 $\pm$ 0.251  $\chi^2$ /NDF: 550.0/15

Left Out: 9.456 $\pm$ 0.241  $\chi^2$ /NDF:124.5/11

Right Out: 3.591 $\pm$ 0.254  $\chi^2$ /NDF: 573.3/17

Left In: 9.852 $\pm$ 0.235  $\chi^2$ /NDF:287.8/11

Left: 9.659 $\pm$ 0.168  $\chi^2$ /NDF: 413.7/23

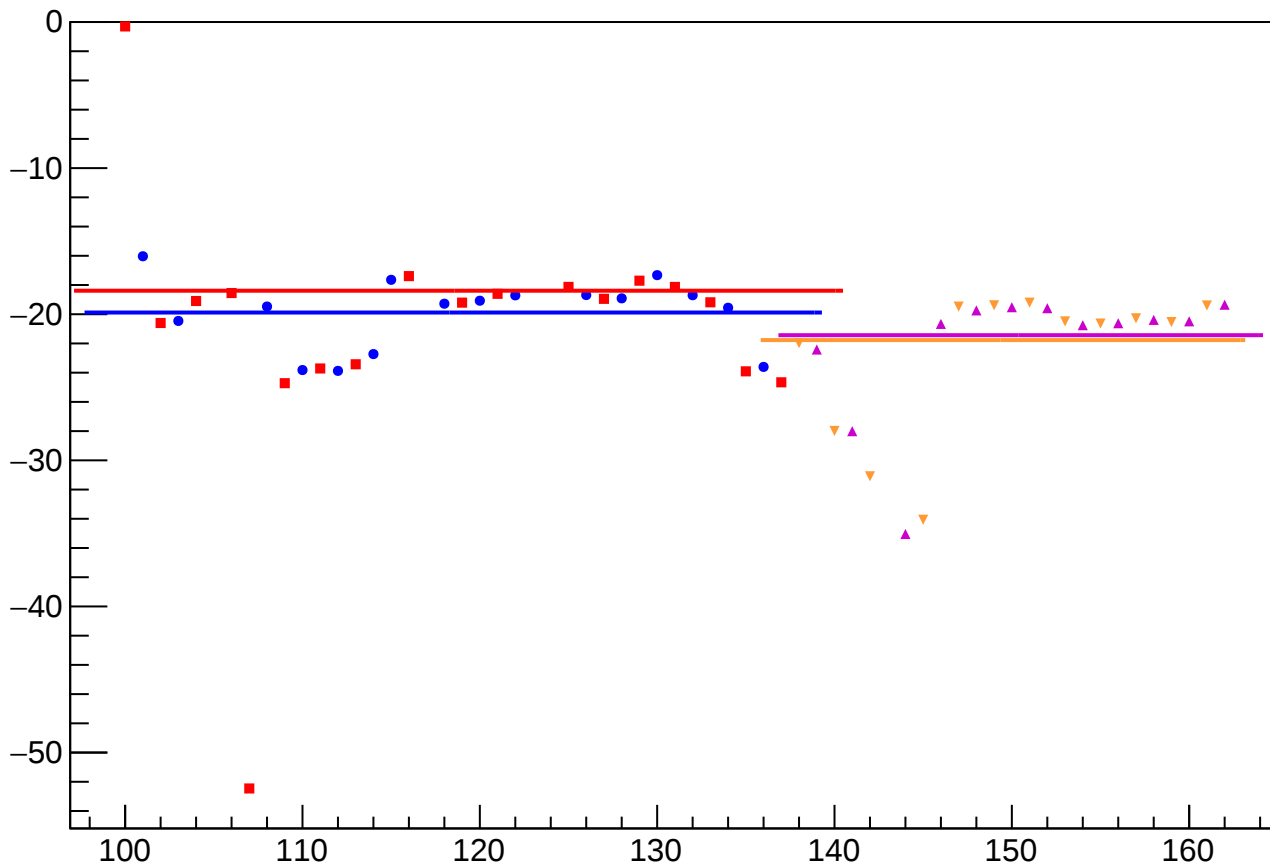
Right: 4.201 $\pm$ 0.179  $\chi^2$ /NDF: 1134.6/33

In: 7.486 $\pm$ 0.172  $\chi^2$ /NDF:1053.8/27

Out: 6.681 $\pm$ 0.175  $\chi^2$ /NDF:977.7/29

All: 7.091 $\pm$ 0.123  $\chi^2$ /NDF: 2042.3/57

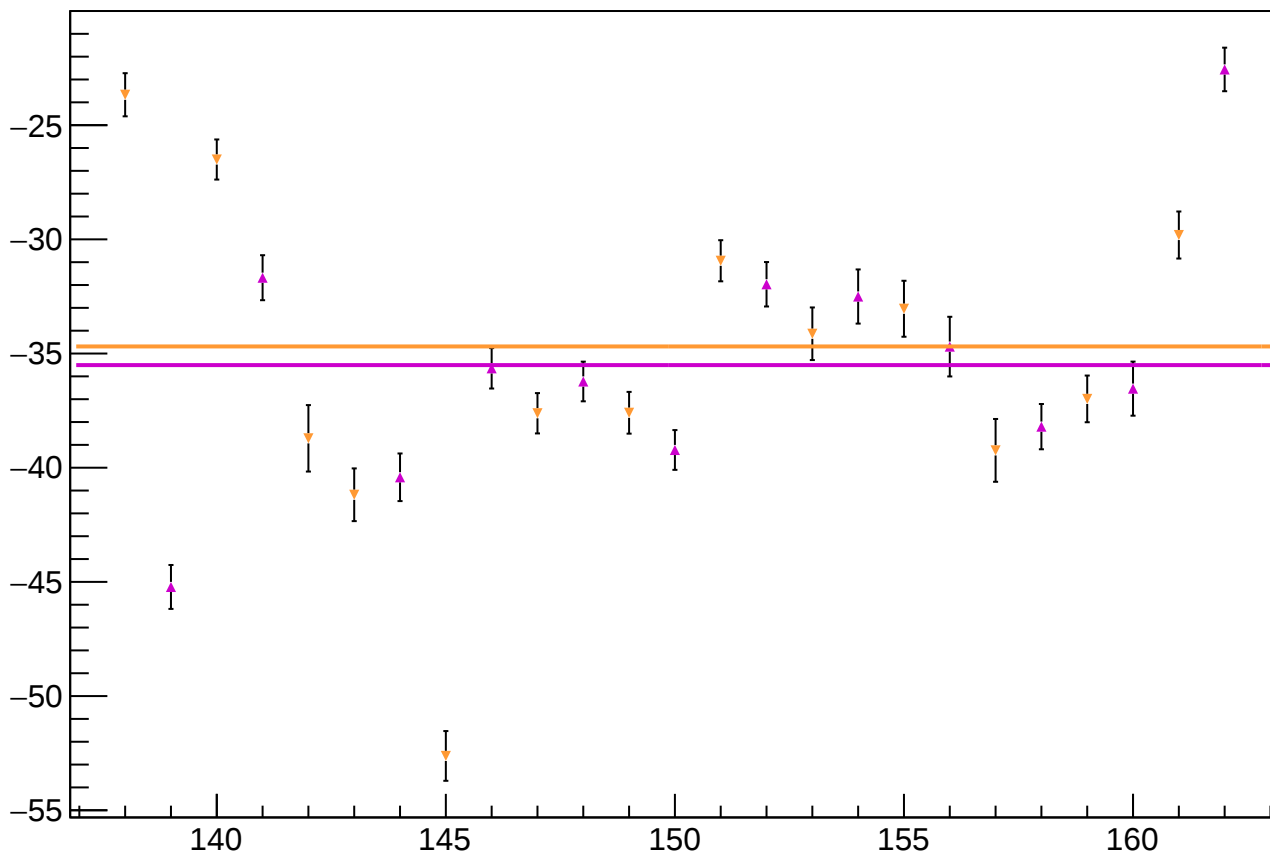
reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.883 \pm 0.016$   $\chi^2/\text{NDF}: 26063.5/15$   
 Left Out:  $-21.770 \pm 0.012$   $\chi^2/\text{NDF}: 119538.5/11$   
 Right Out:  $-18.390 \pm 0.015$   $\chi^2/\text{NDF}: 301247.7/17$   
 Left In:  $-21.434 \pm 0.011$   $\chi^2/\text{NDF}: 98842.7/11$

Left:  $-21.593 \pm 0.008$   $\chi^2/\text{NDF}: 218814.1/23$   
 Right:  $-19.096 \pm 0.011$   $\chi^2/\text{NDF}: 332167.8/33$   
 In:  $-20.910 \pm 0.009$   $\chi^2/\text{NDF}: 131486.3/27$   
 Out:  $-20.460 \pm 0.009$   $\chi^2/\text{NDF}: 453006.5/29$   
 All:  $-20.689 \pm 0.006$   $\chi^2/\text{NDF}: 585713.8/57$

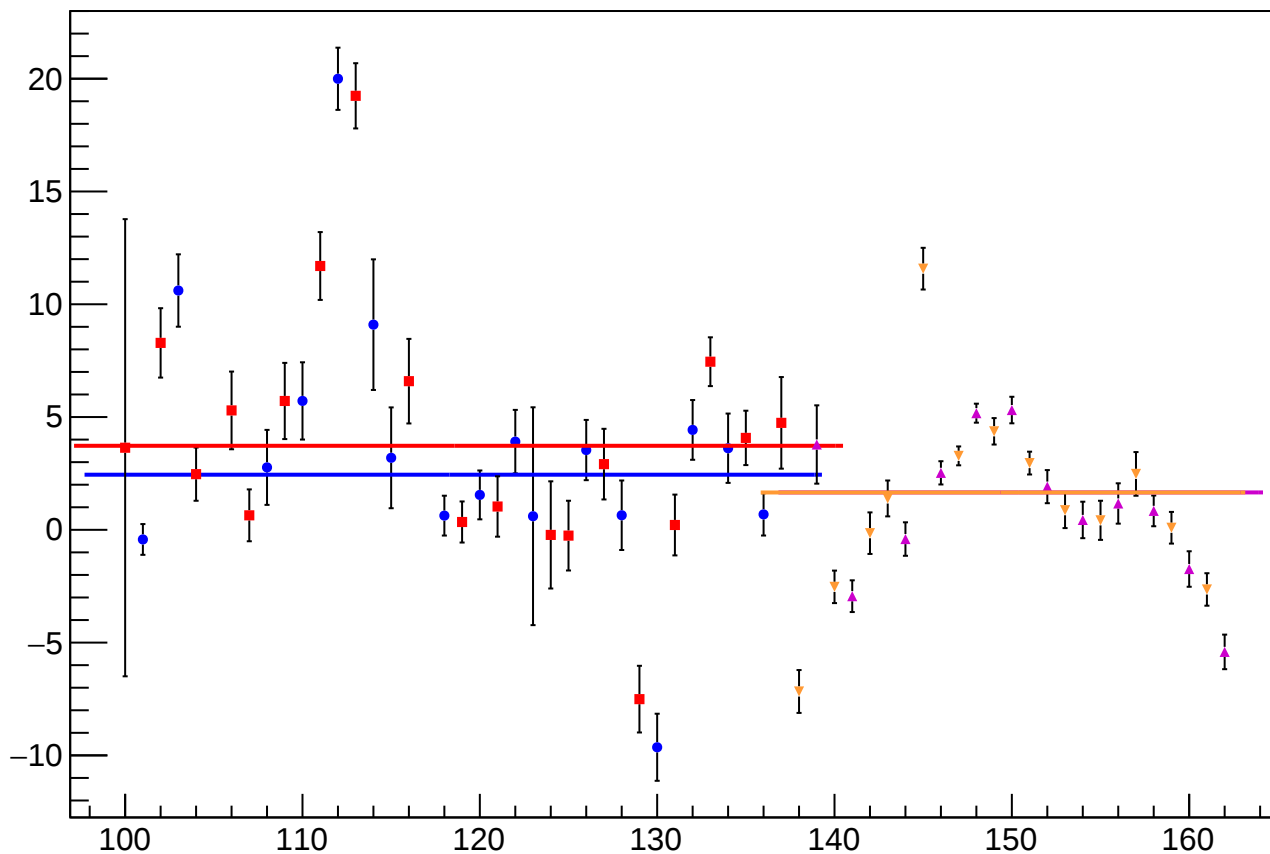
reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.690+/-0.288  $\chi^2/\text{NDF}$ : 612.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -35.507+/-0.287  $\chi^2/\text{NDF}$ : 370.8/11

Left: -35.100+/-0.203  $\chi^2/\text{NDF}$ : 987.2/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -35.507+/-0.287  $\chi^2/\text{NDF}$ : 370.8/11  
 Out: -34.690+/-0.288  $\chi^2/\text{NDF}$ : 612.3/12  
 All: -35.100+/-0.203  $\chi^2/\text{NDF}$ : 987.2/24

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.444 $\pm$ 0.311  $\chi^2$ /NDF: 295.3/16

Left Out: 1.656 $\pm$ 0.191  $\chi^2$ /NDF: 326.5/12

Right Out: 3.726 $\pm$ 0.327  $\chi^2$ /NDF: 269.1/18

Left In: 1.658 $\pm$ 0.194  $\chi^2$ /NDF: 270.9/11

Left: 1.657 $\pm$ 0.136  $\chi^2$ /NDF: 597.4/24

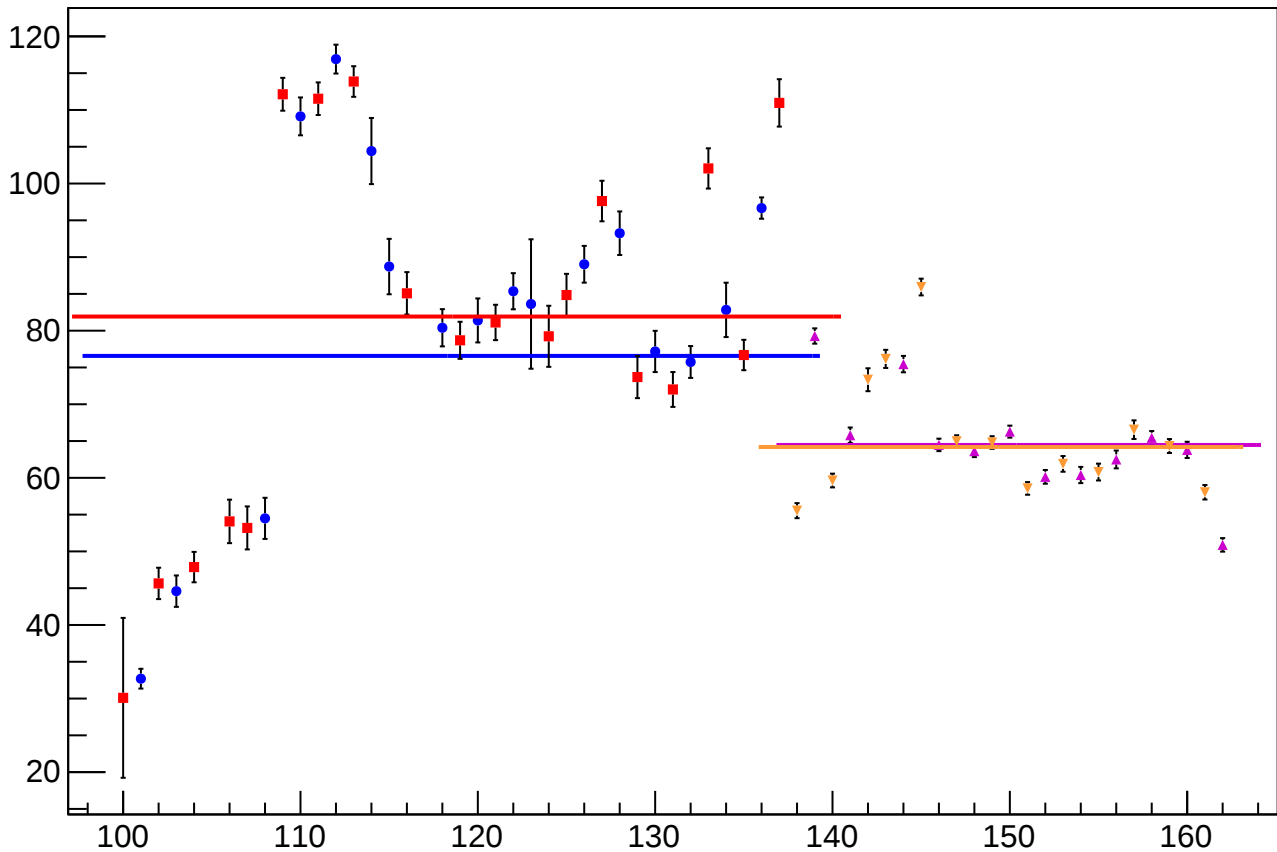
Right: 3.053 $\pm$ 0.225  $\chi^2$ /NDF: 572.5/35

In: 1.878 $\pm$ 0.165  $\chi^2$ /NDF: 570.8/28

Out: 2.182 $\pm$ 0.165  $\chi^2$ /NDF: 625.5/31

All: 2.030 $\pm$ 0.116  $\chi^2$ /NDF: 1198.0/60

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $76.572 \pm 0.573$   $\chi^2/\text{NDF}: 2253.6/16$

Left Out:  $64.190 \pm 0.282$   $\chi^2/\text{NDF}: 690.0/12$

Right Out:  $81.923 \pm 0.592$   $\chi^2/\text{NDF}: 1570.6/18$

Left In:  $64.467 \pm 0.278$   $\chi^2/\text{NDF}: 565.5/11$

Left:  $64.330 \pm 0.198$   $\chi^2/\text{NDF}: 1256.0/24$

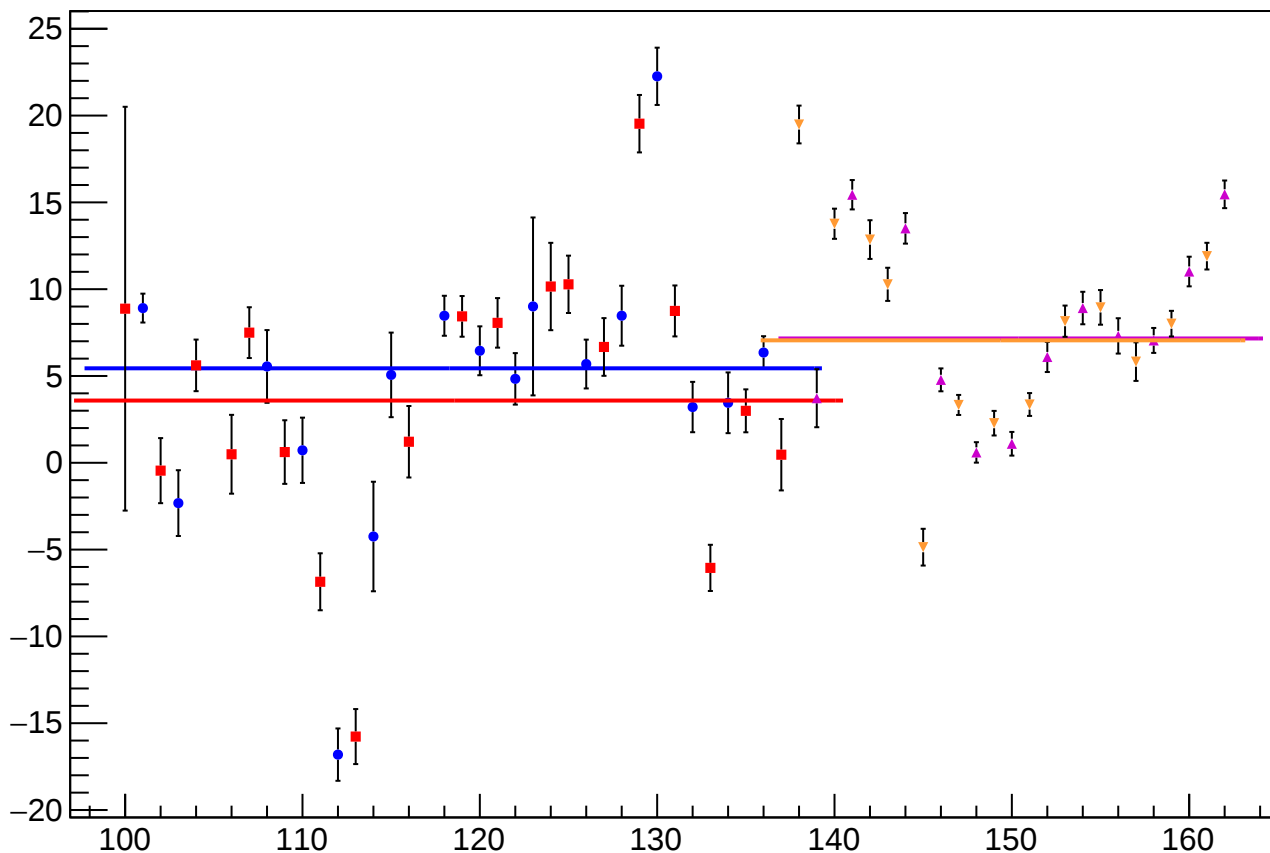
Right:  $79.162 \pm 0.412$   $\chi^2/\text{NDF}: 3866.3/35$

In:  $66.775 \pm 0.250$   $\chi^2/\text{NDF}: 3179.9/28$

Out:  $67.476 \pm 0.255$   $\chi^2/\text{NDF}: 2991.8/31$

All:  $67.119 \pm 0.179$   $\chi^2/\text{NDF}: 6175.6/60$

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.442 \pm 0.357$   $\chi^2/\text{NDF}: 387.5/16$

Left Out:  $7.053 \pm 0.230$   $\chi^2/\text{NDF}: 521.9/12$

Right Out:  $3.585 \pm 0.375$   $\chi^2/\text{NDF}: 423.2/18$

Left In:  $7.161 \pm 0.231$   $\chi^2/\text{NDF}: 502.4/11$

Left:  $7.107 \pm 0.163$   $\chi^2/\text{NDF}: 1024.4/24$

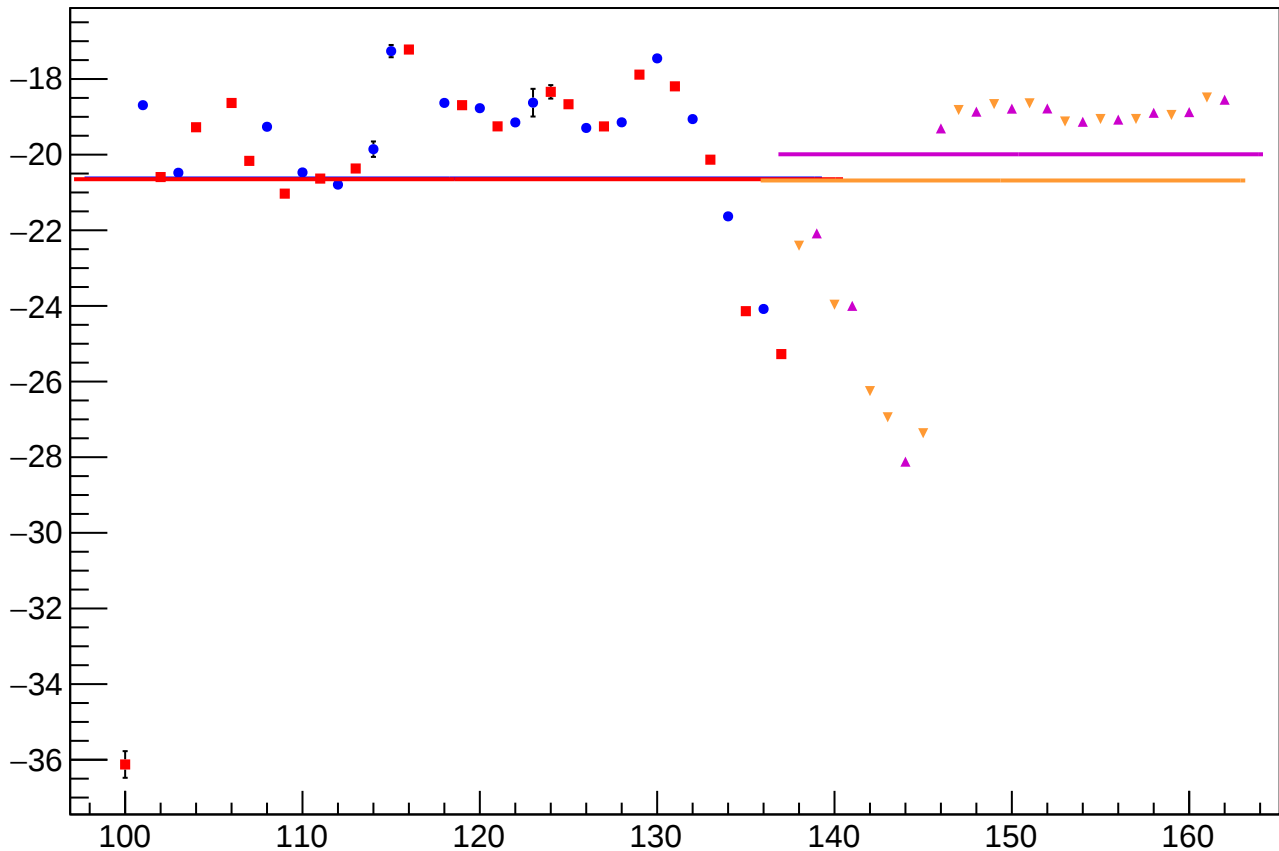
Right:  $4.559 \pm 0.259$   $\chi^2/\text{NDF}: 823.5/35$

In:  $6.654 \pm 0.194$   $\chi^2/\text{NDF}: 906.1/28$

Out:  $6.104 \pm 0.196$   $\chi^2/\text{NDF}: 1007.2/31$

All:  $6.382 \pm 0.138$   $\chi^2/\text{NDF}: 1917.3/60$

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.630+/-0.019  $\chi^2/\text{NDF}$ : 12490.5/16

Left Out: -20.683+/-0.011  $\chi^2/\text{NDF}$ : 73629.7/12

Right Out: -20.650+/-0.019  $\chi^2/\text{NDF}$ : 13885.7/18

Left In: -19.991+/-0.011  $\chi^2/\text{NDF}$ : 48056.8/11

Left: -20.329+/-0.008  $\chi^2/\text{NDF}$ : 123641.2/24

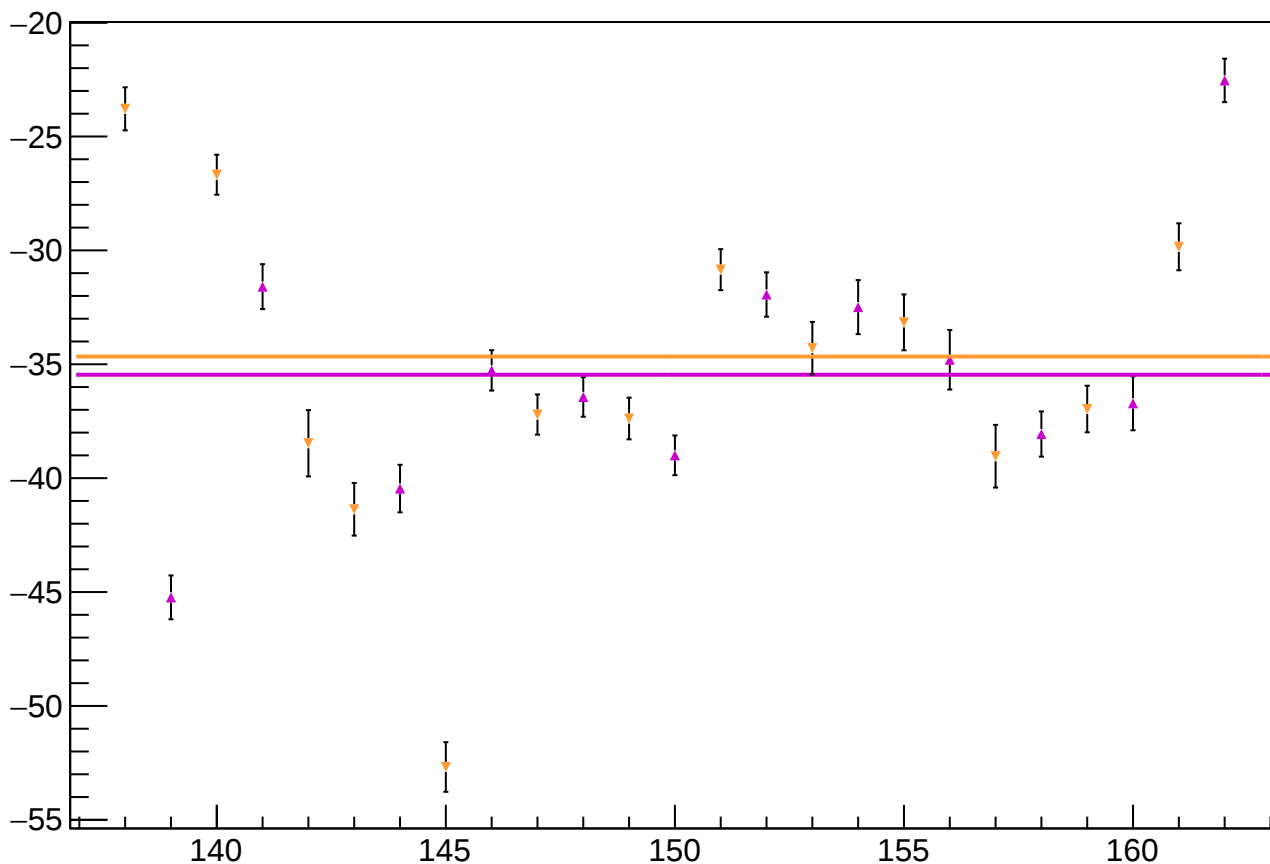
Right: -20.640+/-0.014  $\chi^2/\text{NDF}$ : 26376.6/35

In: -20.147+/-0.010  $\chi^2/\text{NDF}$ : 61380.5/28

Out: -20.675+/-0.010  $\chi^2/\text{NDF}$ : 87517.6/31

All: -20.406+/-0.007  $\chi^2/\text{NDF}$ : 150407.3/60

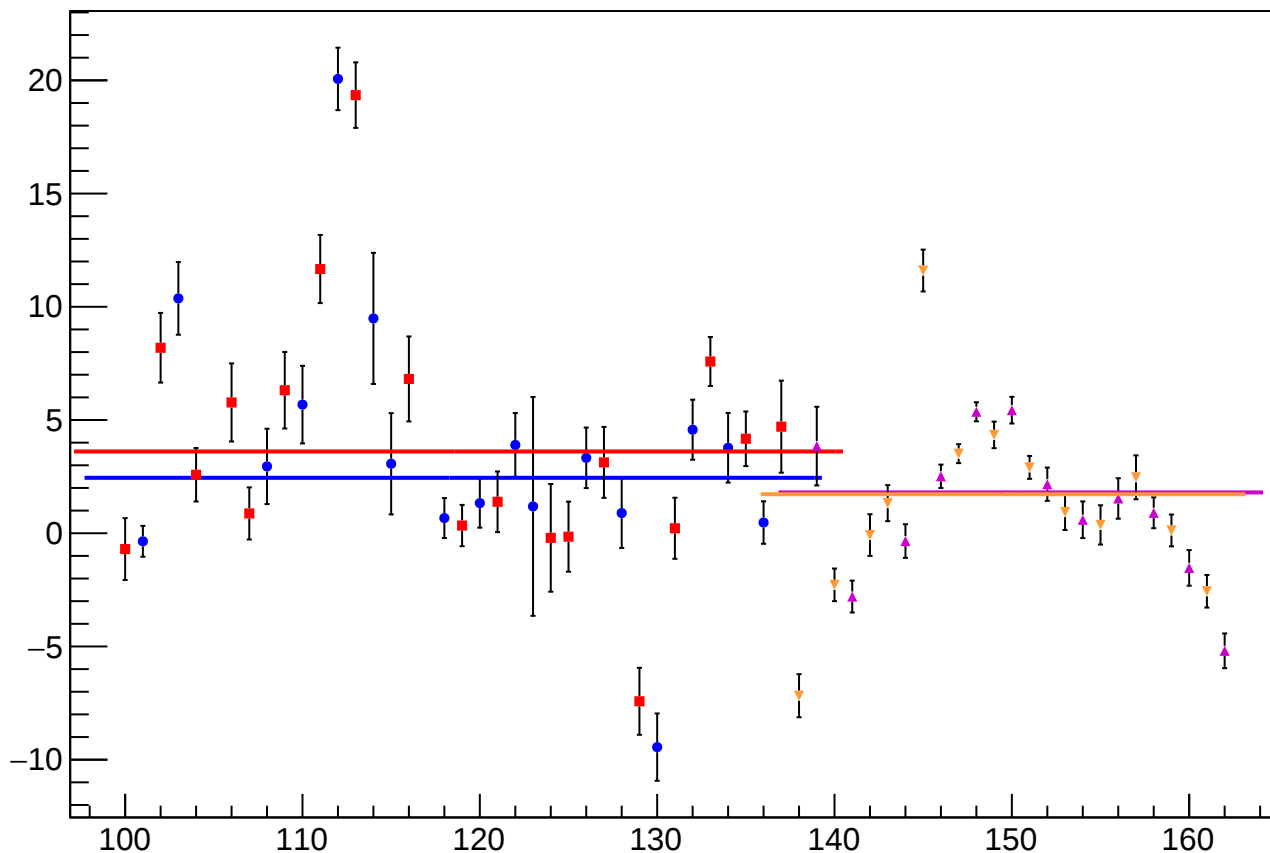
reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.661+/-0.288  $\chi^2/\text{NDF}$ :602.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -35.460+/-0.287  $\chi^2/\text{NDF}$ :370.3/11

Left: -35.062+/-0.203  $\chi^2/\text{NDF}$ : 976.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -35.460+/-0.287  $\chi^2/\text{NDF}$ :370.3/11  
 Out: -34.661+/-0.288  $\chi^2/\text{NDF}$ :602.6/12  
 All: -35.062+/-0.203  $\chi^2/\text{NDF}$ : 976.8/24

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.448 \pm 0.311$   $\chi^2/\text{NDF}$ : 293.4/16

Left Out:  $1.722 \pm 0.191$   $\chi^2/\text{NDF}$ : 324.9/12

Right Out:  $3.611 \pm 0.318$   $\chi^2/\text{NDF}$ : 279.4/18

Left In:  $1.803 \pm 0.194$   $\chi^2/\text{NDF}$ : 269.3/11

Left:  $1.762 \pm 0.136$   $\chi^2/\text{NDF}$ : 594.2/24

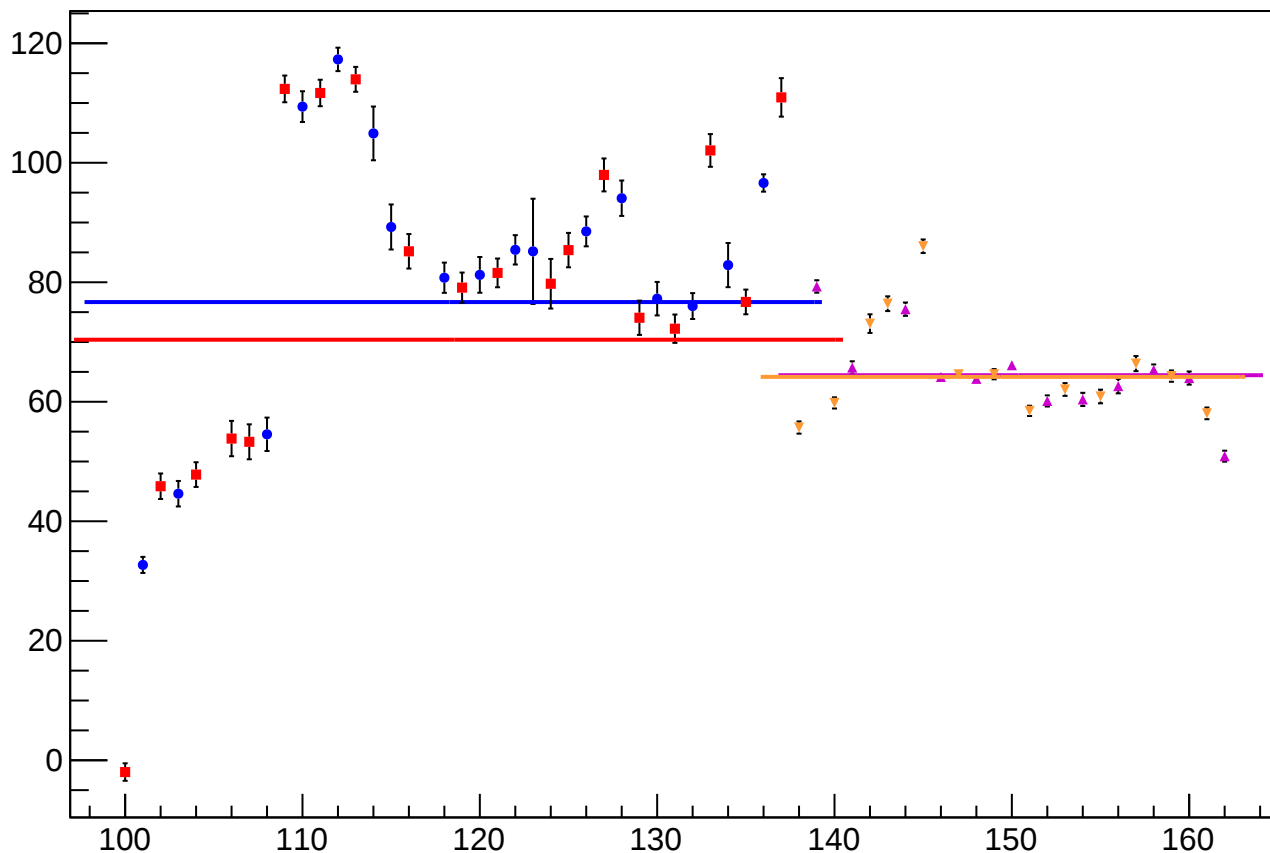
Right:  $3.017 \pm 0.223$   $\chi^2/\text{NDF}$ : 579.6/35

In:  $1.984 \pm 0.165$   $\chi^2/\text{NDF}$ : 565.7/28

Out:  $2.223 \pm 0.164$   $\chi^2/\text{NDF}$ : 630.2/31

All:  $2.104 \pm 0.116$   $\chi^2/\text{NDF}$ : 1196.9/60

reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.687 $\pm$ 0.574  $\chi^2/\text{NDF}$ : 2265.1/16

Left Out: 64.165 $\pm$ 0.282  $\chi^2/\text{NDF}$ : 688.7/12

Right Out: 70.386 $\pm$ 0.550  $\chi^2/\text{NDF}$ : 4391.1/18

Left In: 64.444 $\pm$ 0.278  $\chi^2/\text{NDF}$ : 563.8/11

Left: 64.306 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 1252.9/24

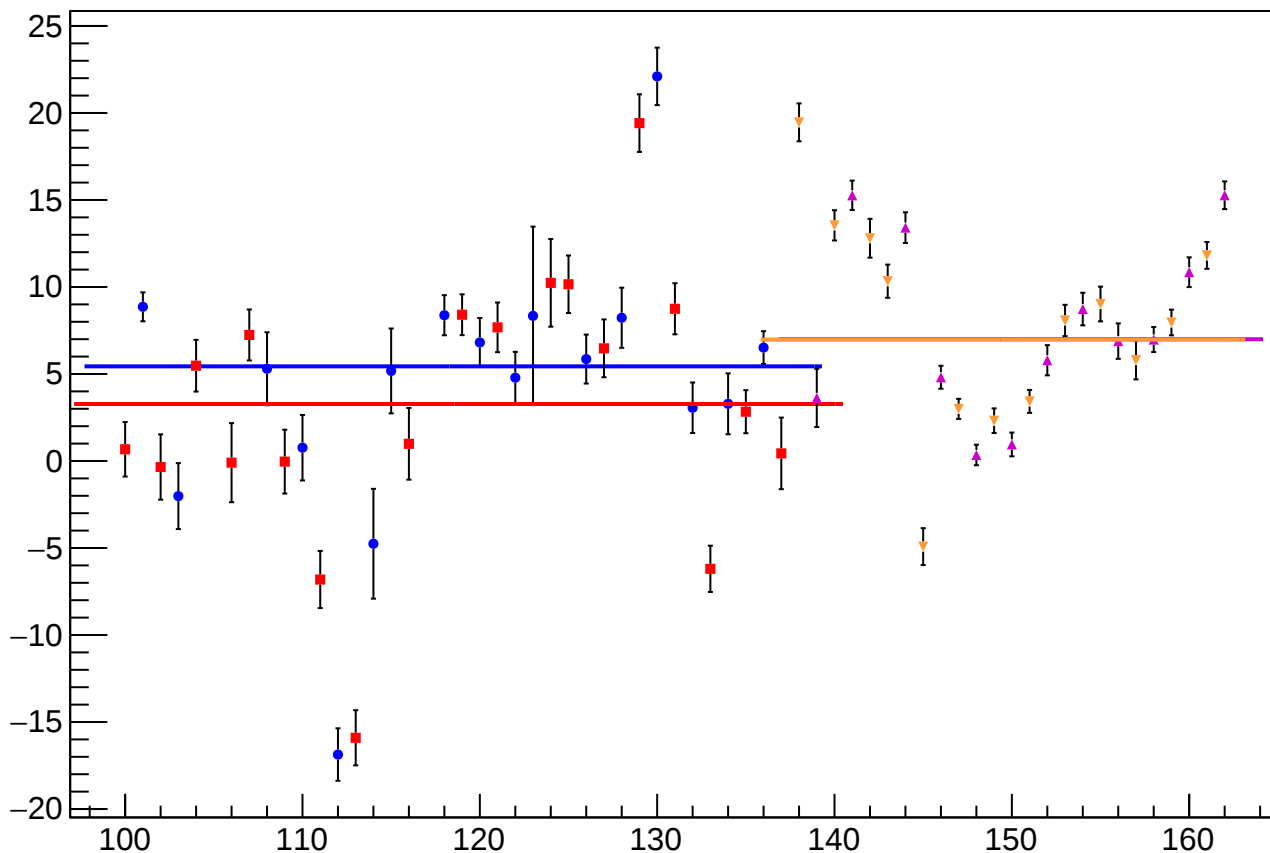
Right: 73.402 $\pm$ 0.397  $\chi^2/\text{NDF}$ : 6719.1/35

In: 66.779 $\pm$ 0.250  $\chi^2/\text{NDF}$ : 3197.5/28

Out: 65.464 $\pm$ 0.251  $\chi^2/\text{NDF}$ : 5181.2/31

All: 66.123 $\pm$ 0.177  $\chi^2/\text{NDF}$ : 8392.4/60

reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.439 \pm 0.357$   $\chi^2/\text{NDF}$ : 385.9/16

Left Out:  $6.976 \pm 0.230$   $\chi^2/\text{NDF}$ : 522.3/12

Right Out:  $3.275 \pm 0.365$   $\chi^2/\text{NDF}$ : 425.8/18

Left In:  $6.999 \pm 0.231$   $\chi^2/\text{NDF}$ : 502.8/11

Left:  $6.988 \pm 0.163$   $\chi^2/\text{NDF}$ : 1025.2/24

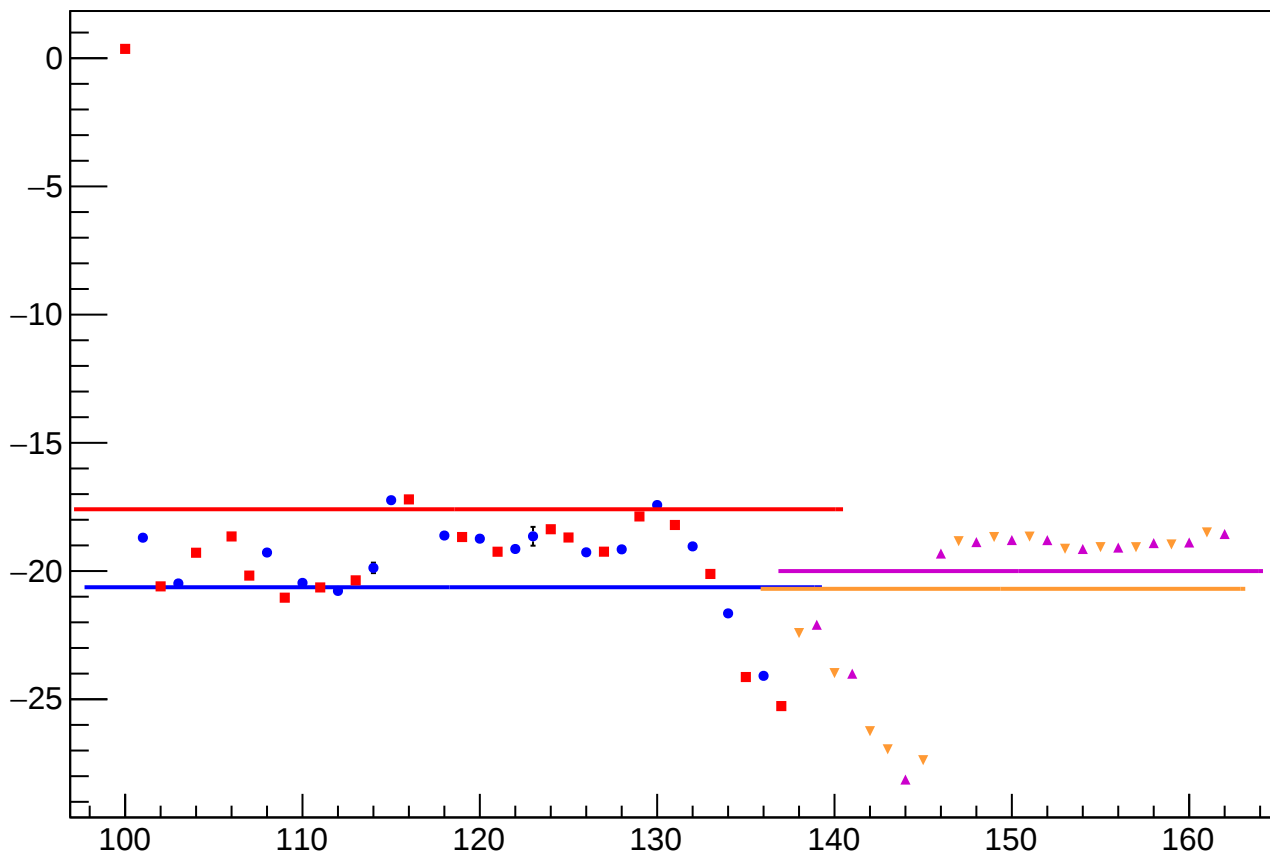
Right:  $4.381 \pm 0.256$   $\chi^2/\text{NDF}$ : 829.6/35

In:  $6.539 \pm 0.194$   $\chi^2/\text{NDF}$ : 902.2/28

Out:  $5.923 \pm 0.195$   $\chi^2/\text{NDF}$ : 1021.5/31

All:  $6.232 \pm 0.138$   $\chi^2/\text{NDF}$ : 1928.7/60

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-20.632 \pm 0.019$   $\chi^2/\text{NDF}: 12530.8/16$

Left Out:  $-20.693 \pm 0.011$   $\chi^2/\text{NDF}: 73477.9/12$

Right Out:  $-17.591 \pm 0.018$   $\chi^2/\text{NDF}: 178680.7/18$

Left In:  $-20.001 \pm 0.011$   $\chi^2/\text{NDF}: 47990.2/11$

Left:  $-20.339 \pm 0.008$   $\chi^2/\text{NDF}: 123415.8/24$

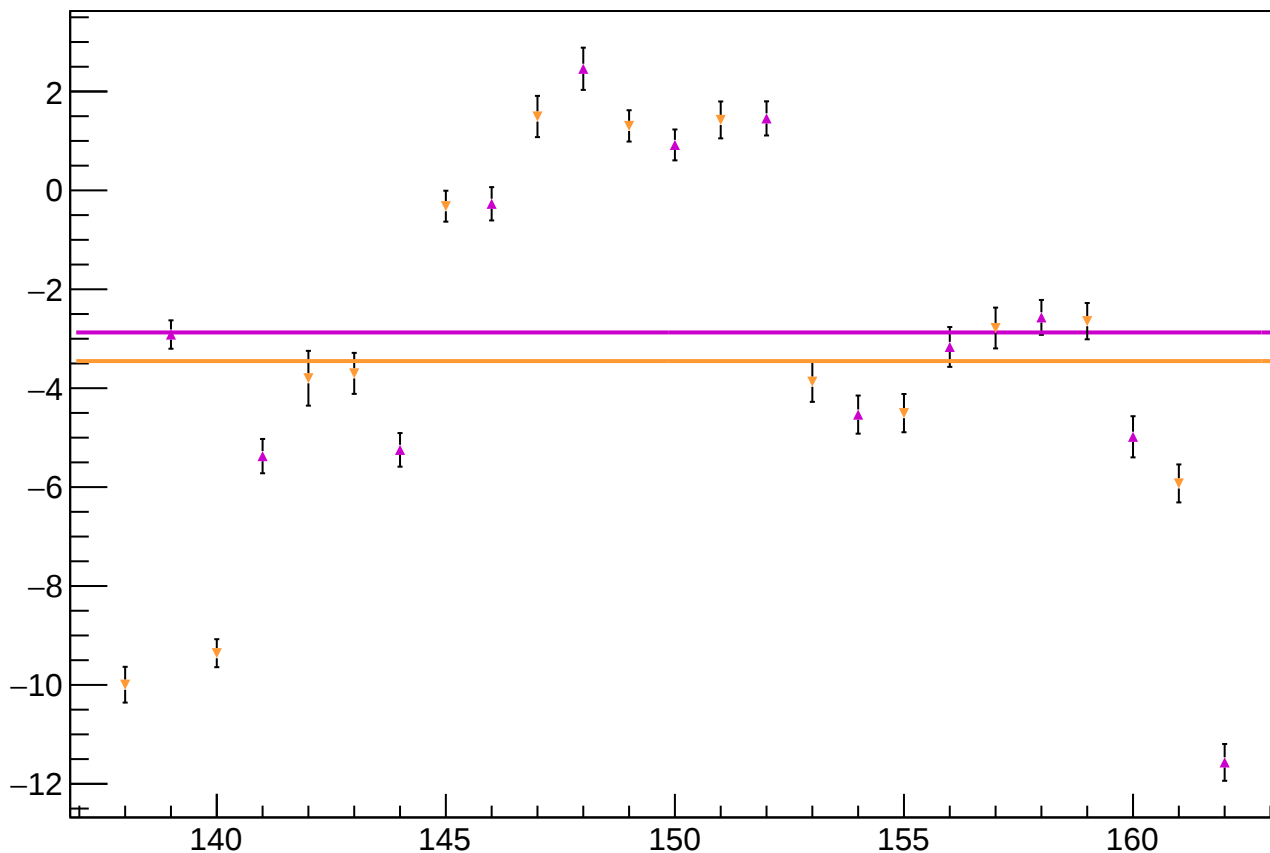
Right:  $-19.007 \pm 0.013$   $\chi^2/\text{NDF}: 204486.4/35$

In:  $-20.155 \pm 0.010$   $\chi^2/\text{NDF}: 61328.0/28$

Out:  $-19.827 \pm 0.010$   $\chi^2/\text{NDF}: 273538.7/31$

All:  $-19.991 \pm 0.007$   $\chi^2/\text{NDF}: 335460.0/60$

reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.451+/-0.103  $\chi^2/\text{NDF}$ :1458.0/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.873+/-0.102  $\chi^2/\text{NDF}$ :1212.9/11

Left: -3.161+/-0.072  $\chi^2/\text{NDF}$ : 2686.8/24

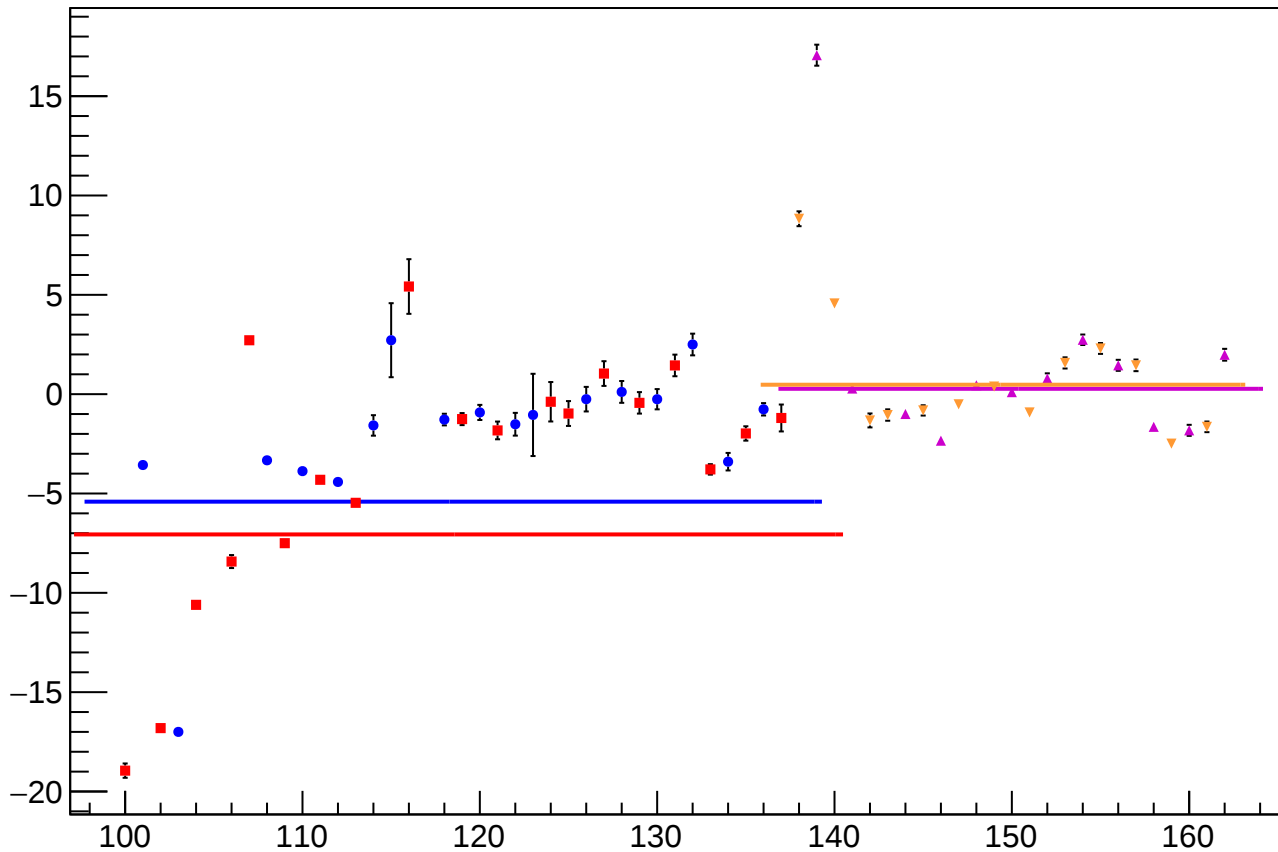
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.873+/-0.102  $\chi^2/\text{NDF}$ :1212.9/11

Out: -3.451+/-0.103  $\chi^2/\text{NDF}$ :1458.0/12

All: -3.161+/-0.072  $\chi^2/\text{NDF}$ : 2686.8/24

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-5.411 \pm 0.055$   $\chi^2/\text{NDF}$ : 9261.2/16

Left Out:  $0.475 \pm 0.071$   $\chi^2/\text{NDF}$ : 1215.2/12

Right Out:  $-7.060 \pm 0.059$   $\chi^2/\text{NDF}$ : 12329.4/18

Left In:  $0.270 \pm 0.073$   $\chi^2/\text{NDF}$ : 1447.3/11

Left:  $0.375 \pm 0.051$   $\chi^2/\text{NDF}$ : 2666.6/24

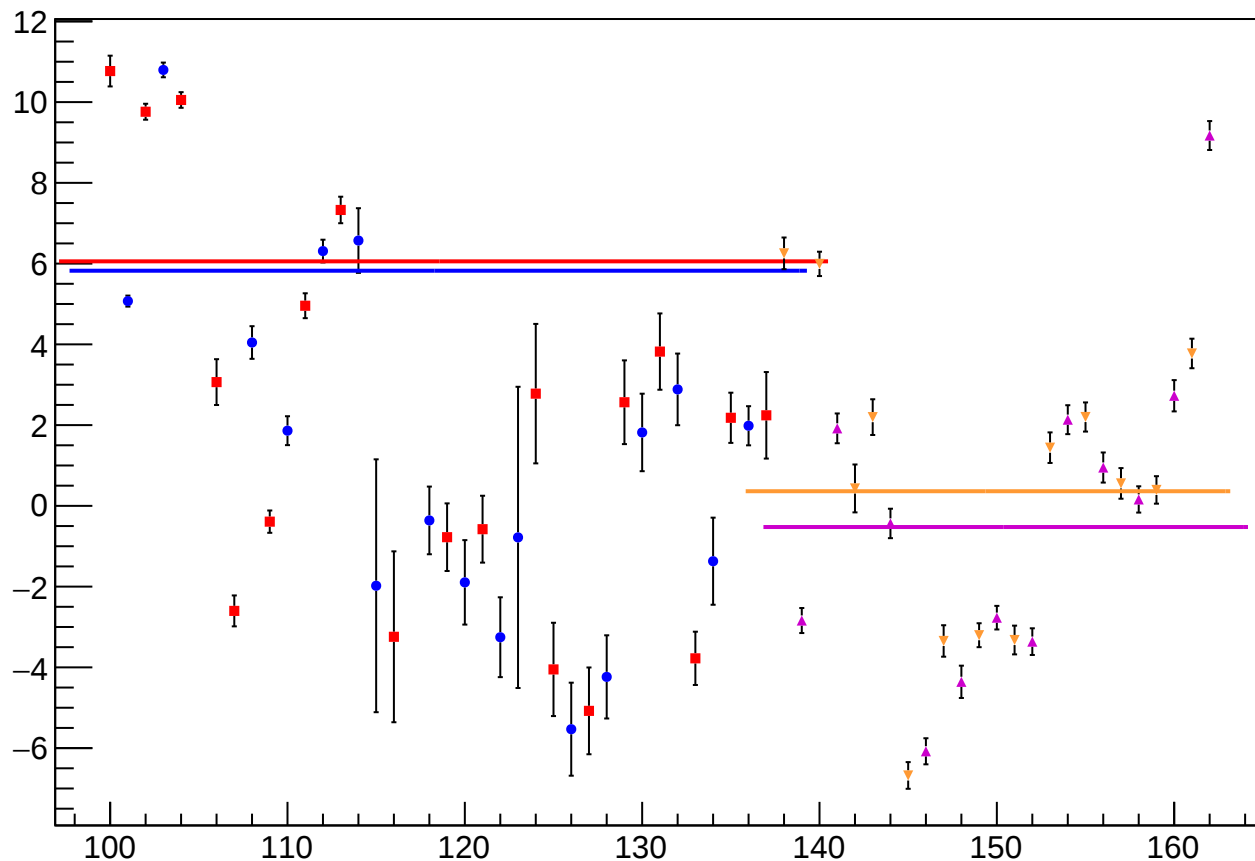
Right:  $-6.173 \pm 0.040$   $\chi^2/\text{NDF}$ : 22010.3/35

In:  $-3.375 \pm 0.044$   $\chi^2/\text{NDF}$ : 14569.2/28

Out:  $-3.998 \pm 0.045$   $\chi^2/\text{NDF}$ : 20165.5/31

All:  $-3.675 \pm 0.032$   $\chi^2/\text{NDF}$ : 34831.9/60

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.824 \pm 0.090$   $\chi^2/\text{NDF}: 1452.6/16$

Left Out:  $0.362 \pm 0.101$   $\chi^2/\text{NDF}: 1509.0/12$

Right Out:  $6.056 \pm 0.093$   $\chi^2/\text{NDF}: 2668.9/18$

Left In:  $-0.524 \pm 0.100$   $\chi^2/\text{NDF}: 1499.1/11$

Left:  $-0.087 \pm 0.071$   $\chi^2/\text{NDF}: 3047.2/24$

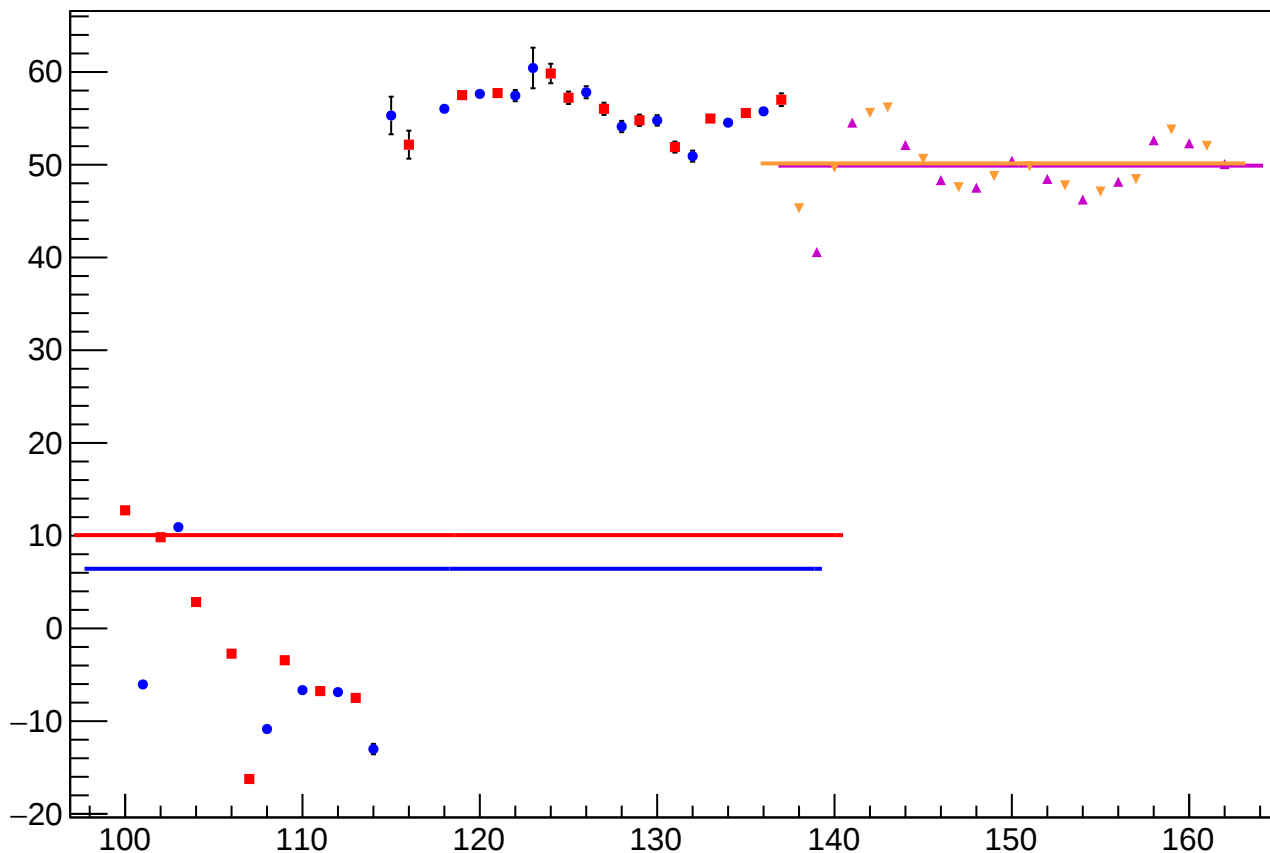
Right:  $5.935 \pm 0.065$   $\chi^2/\text{NDF}: 4124.7/35$

In:  $2.984 \pm 0.067$   $\chi^2/\text{NDF}: 5198.1/28$

Out:  $3.432 \pm 0.069$   $\chi^2/\text{NDF}: 5893.6/31$

All:  $3.202 \pm 0.048$   $\chi^2/\text{NDF}: 11113.7/60$

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $6.432 \pm 0.065$   $\chi^2/\text{NDF}$ : 123486.3/16

Left Out:  $50.143 \pm 0.084$   $\chi^2/\text{NDF}$ : 1133.8/12

Right Out:  $10.060 \pm 0.070$   $\chi^2/\text{NDF}$ : 121816.0/18

Left In:  $49.904 \pm 0.085$   $\chi^2/\text{NDF}$ : 1114.9/11

Left:  $50.025 \pm 0.060$   $\chi^2/\text{NDF}$ : 2252.7/24

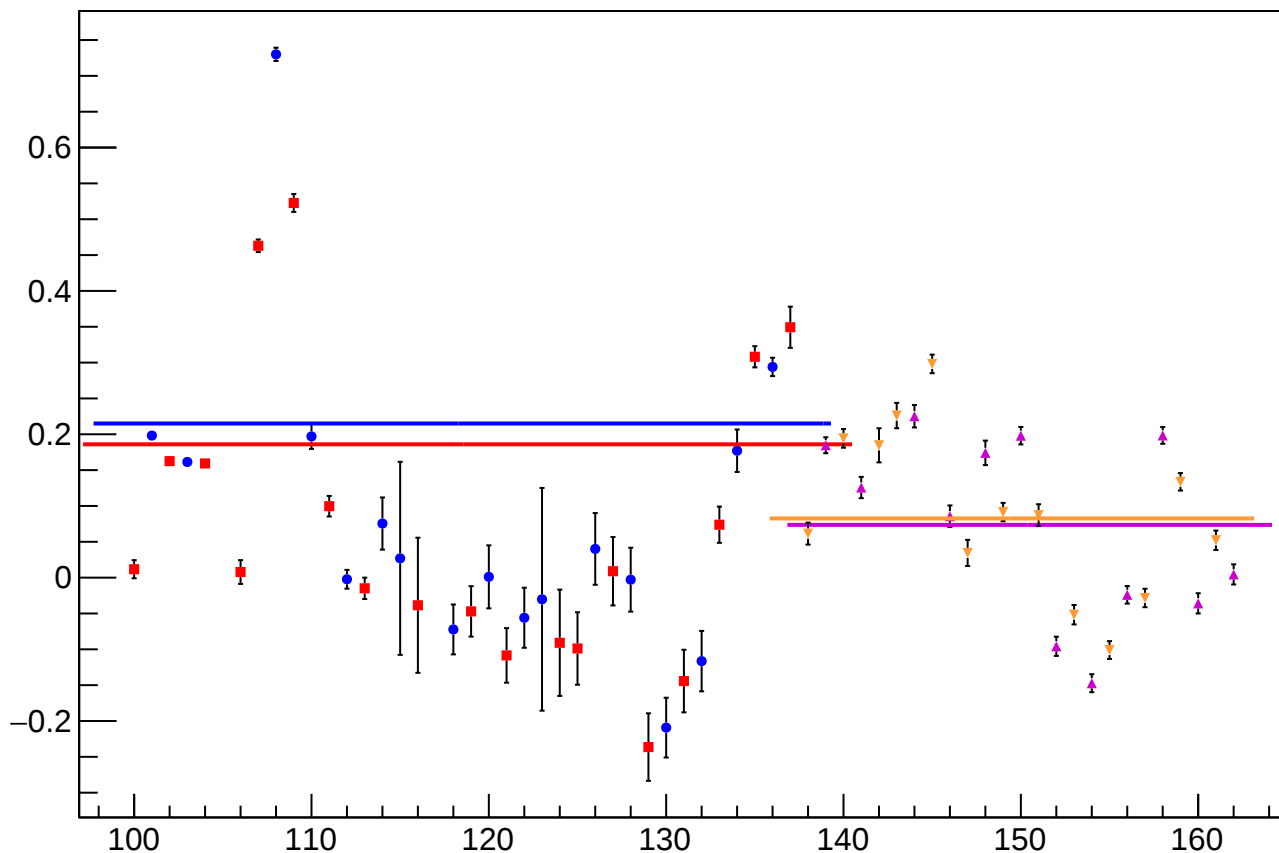
Right:  $8.110 \pm 0.047$   $\chi^2/\text{NDF}$ : 246756.9/35

In:  $22.338 \pm 0.052$   $\chi^2/\text{NDF}$ : 289787.9/28

Out:  $26.347 \pm 0.054$   $\chi^2/\text{NDF}$ : 257173.2/31

All:  $24.259 \pm 0.037$   $\chi^2/\text{NDF}$ : 549861.5/60

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.215 \pm 0.003$   $\chi^2/\text{NDF}$ : 3930.1/16

Left Out:  $0.083 \pm 0.004$   $\chi^2/\text{NDF}$ : 858.2/12

Right Out:  $0.186 \pm 0.003$   $\chi^2/\text{NDF}$ : 2720.3/18

Left In:  $0.074 \pm 0.004$   $\chi^2/\text{NDF}$ : 1074.8/11

Left:  $0.078 \pm 0.003$   $\chi^2/\text{NDF}$ : 1935.6/24

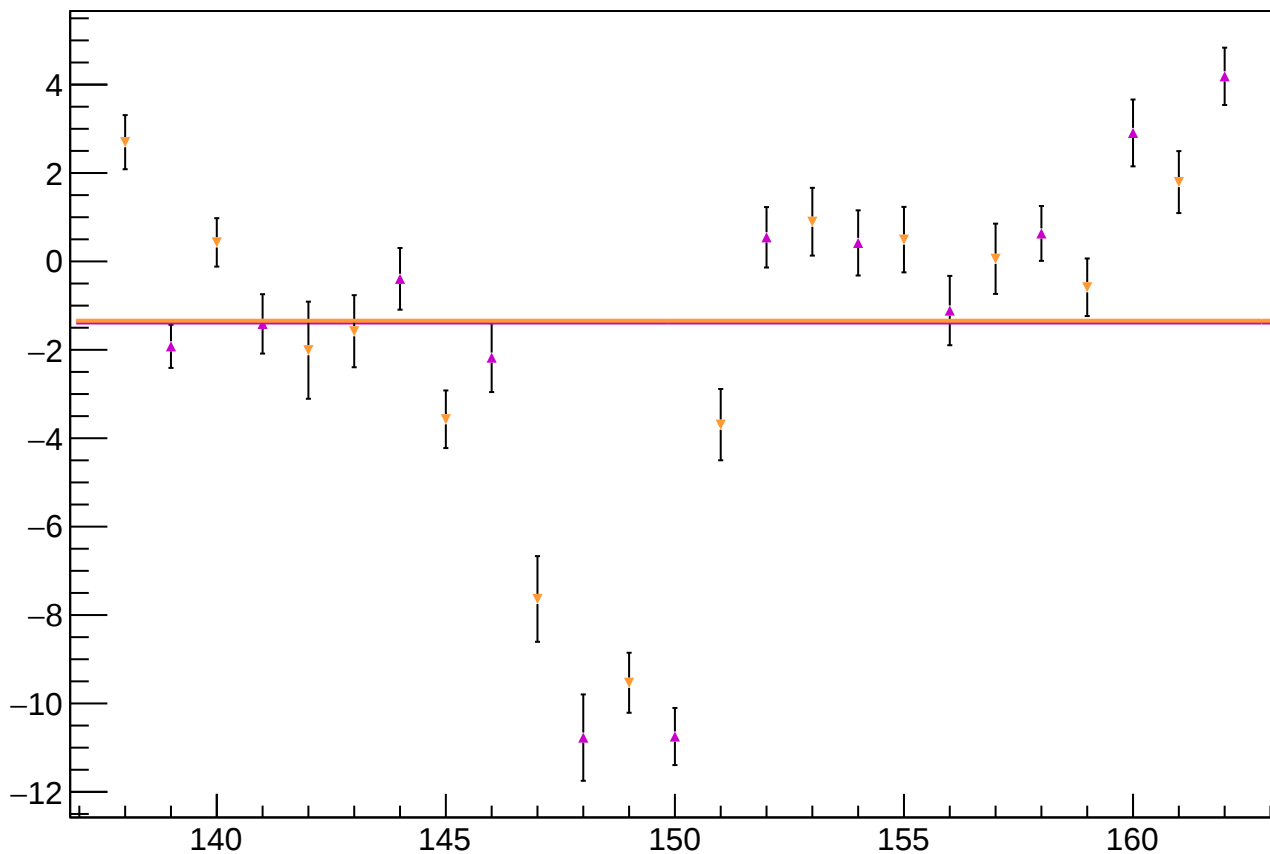
Right:  $0.200 \pm 0.002$   $\chi^2/\text{NDF}$ : 6707.1/35

In:  $0.167 \pm 0.002$   $\chi^2/\text{NDF}$ : 5891.4/28

Out:  $0.153 \pm 0.002$   $\chi^2/\text{NDF}$ : 4049.4/31

All:  $0.160 \pm 0.002$   $\chi^2/\text{NDF}$ : 9960.2/60

reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected

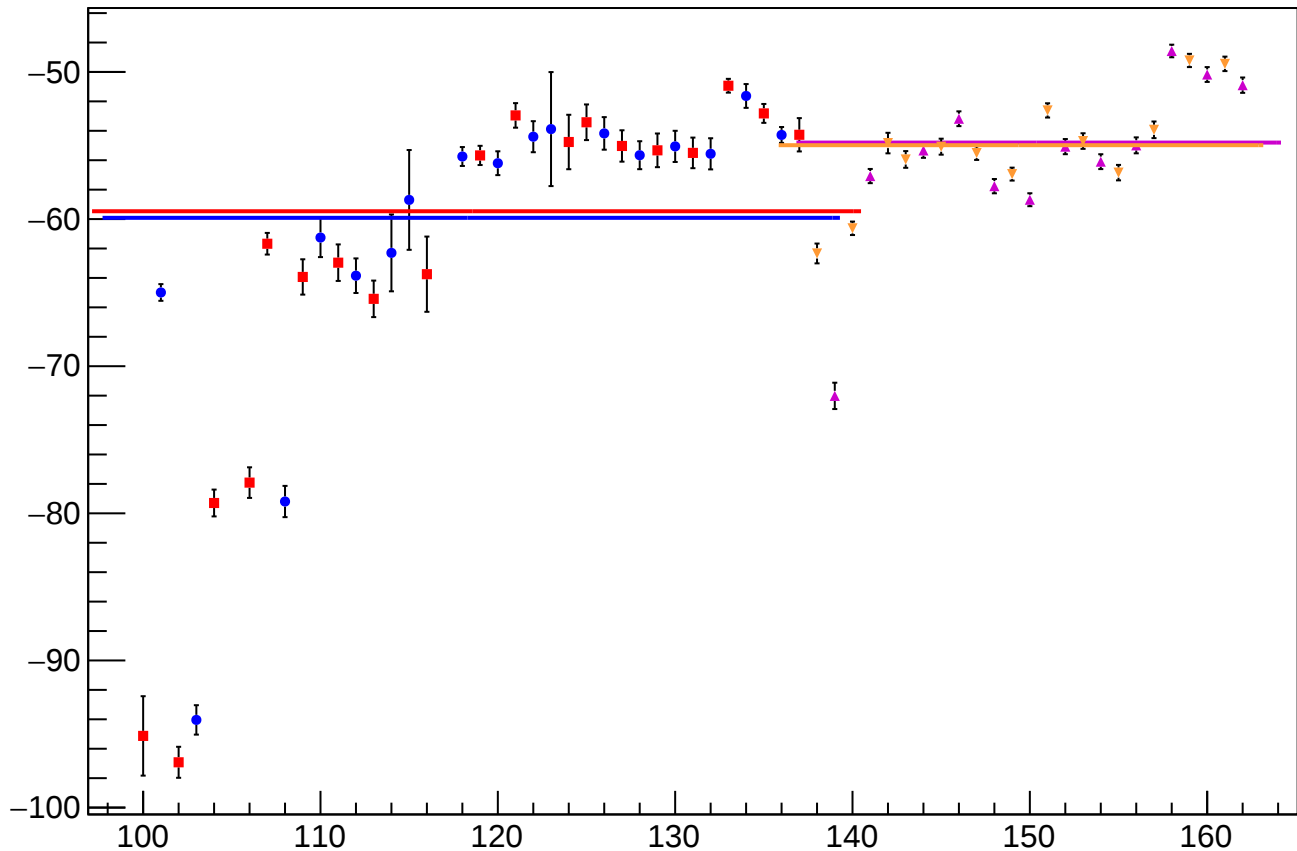


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.342+/-0.200  $\chi^2/\text{NDF}$ :301.5/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.382+/-0.197  $\chi^2/\text{NDF}$ :437.1/11

Left: -1.362+/-0.140  $\chi^2/\text{NDF}$ : 738.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.382+/-0.197  $\chi^2/\text{NDF}$ :437.1/11  
 Out: -1.342+/-0.200  $\chi^2/\text{NDF}$ :301.5/12

All: -1.362+/-0.140  $\chi^2/\text{NDF}$ : 738.6/24

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-59.914 \pm 0.223$   $\chi^2/\text{NDF}$ : 1979.5/16

Left Out:  $-54.978 \pm 0.143$   $\chi^2/\text{NDF}$ : 626.6/12

Right Out:  $-59.468 \pm 0.212$   $\chi^2/\text{NDF}$ : 2912.7/18

Left In:  $-54.800 \pm 0.146$   $\chi^2/\text{NDF}$ : 876.3/11

Left:  $-54.891 \pm 0.102$   $\chi^2/\text{NDF}$ : 1503.6/24

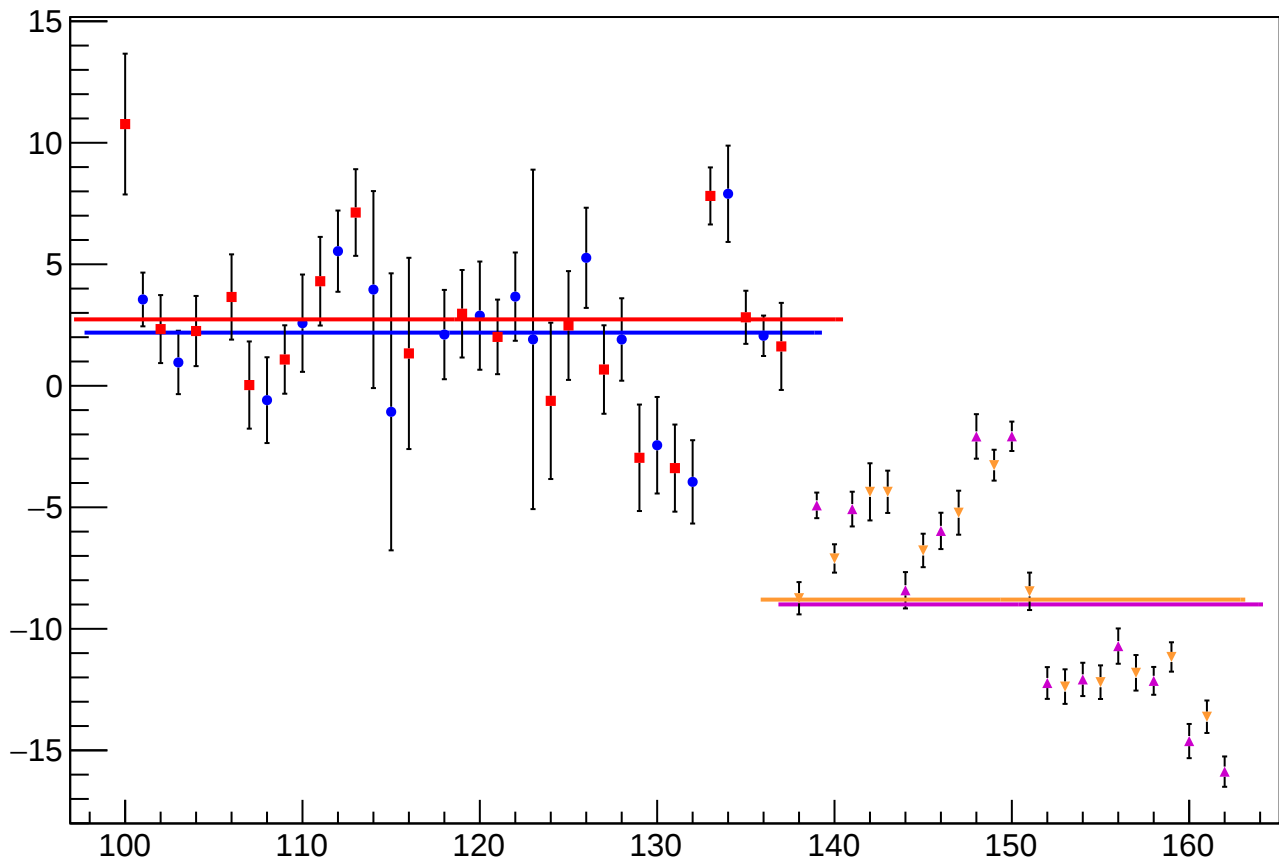
Right:  $-59.680 \pm 0.154$   $\chi^2/\text{NDF}$ : 4894.3/35

In:  $-56.334 \pm 0.122$   $\chi^2/\text{NDF}$ : 3224.0/28

Out:  $-56.382 \pm 0.119$   $\chi^2/\text{NDF}$ : 3847.4/31

All:  $-56.358 \pm 0.085$   $\chi^2/\text{NDF}$ : 7071.5/60

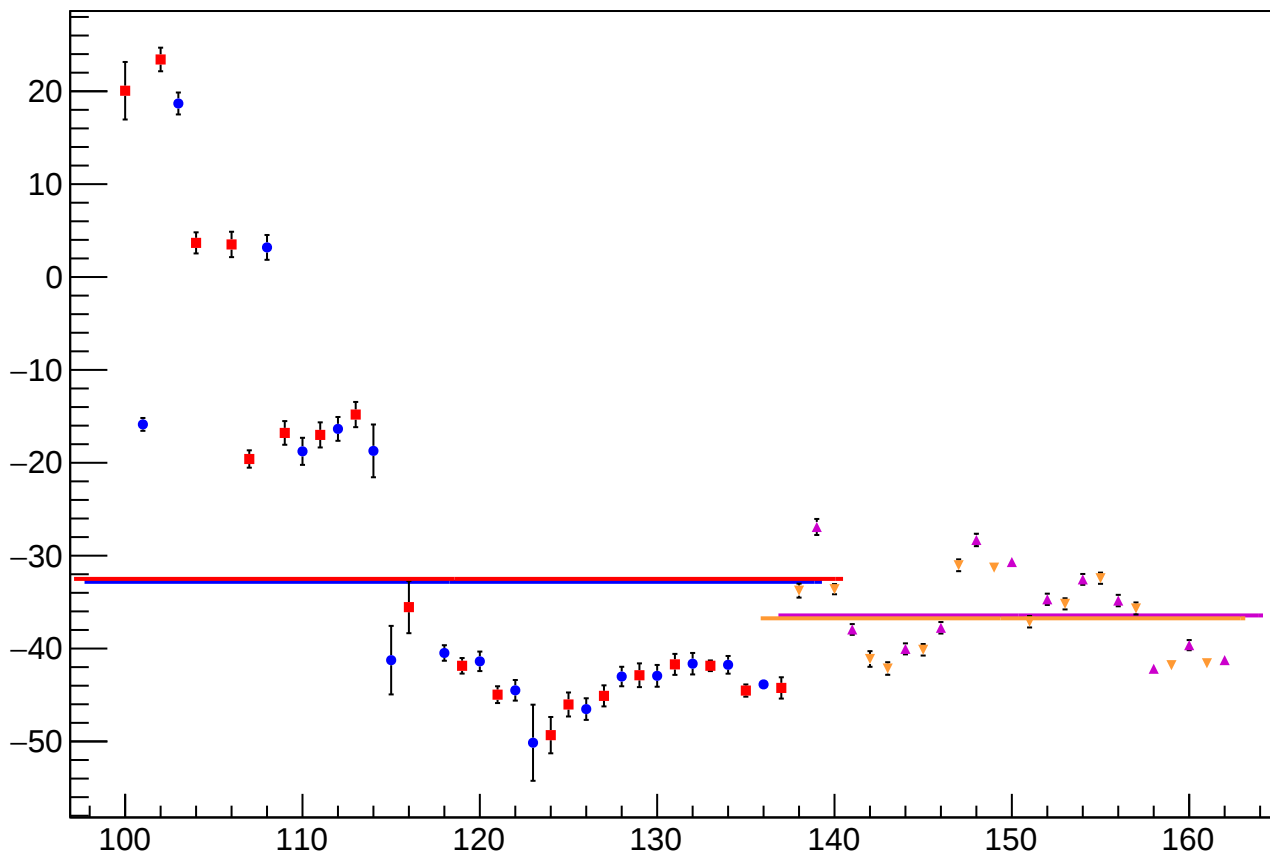
reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 2.188 $\pm$ 0.404  $\chi^2$ /NDF: 39.1/16  
 Left Out: -8.797 $\pm$ 0.197  $\chi^2$ /NDF:282.6/12  
 Right Out: 2.733 $\pm$ 0.388  $\chi^2$ /NDF: 58.9/18  
 Left In: -8.996 $\pm$ 0.192  $\chi^2$ /NDF:560.7/11

Left: -8.899 $\pm$ 0.138  $\chi^2$ /NDF: 843.8/24  
 Right: 2.472 $\pm$ 0.280  $\chi^2$ /NDF: 98.9/35  
 In: -6.932 $\pm$ 0.174  $\chi^2$ /NDF:1224.4/28  
 Out: -6.423 $\pm$ 0.176  $\chi^2$ /NDF:1044.1/31  
 All: -6.681 $\pm$ 0.124  $\chi^2$ /NDF: 2272.8/60

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.817 \pm 0.254$   $\chi^2/\text{NDF}: 4666.6/16$

Left Out:  $-36.746 \pm 0.167$   $\chi^2/\text{NDF}: 615.3/12$

Right Out:  $-32.501 \pm 0.244$   $\chi^2/\text{NDF}: 6037.9/18$

Left In:  $-36.435 \pm 0.167$   $\chi^2/\text{NDF}: 778.4/11$

Left:  $-36.591 \pm 0.118$   $\chi^2/\text{NDF}: 1395.4/24$

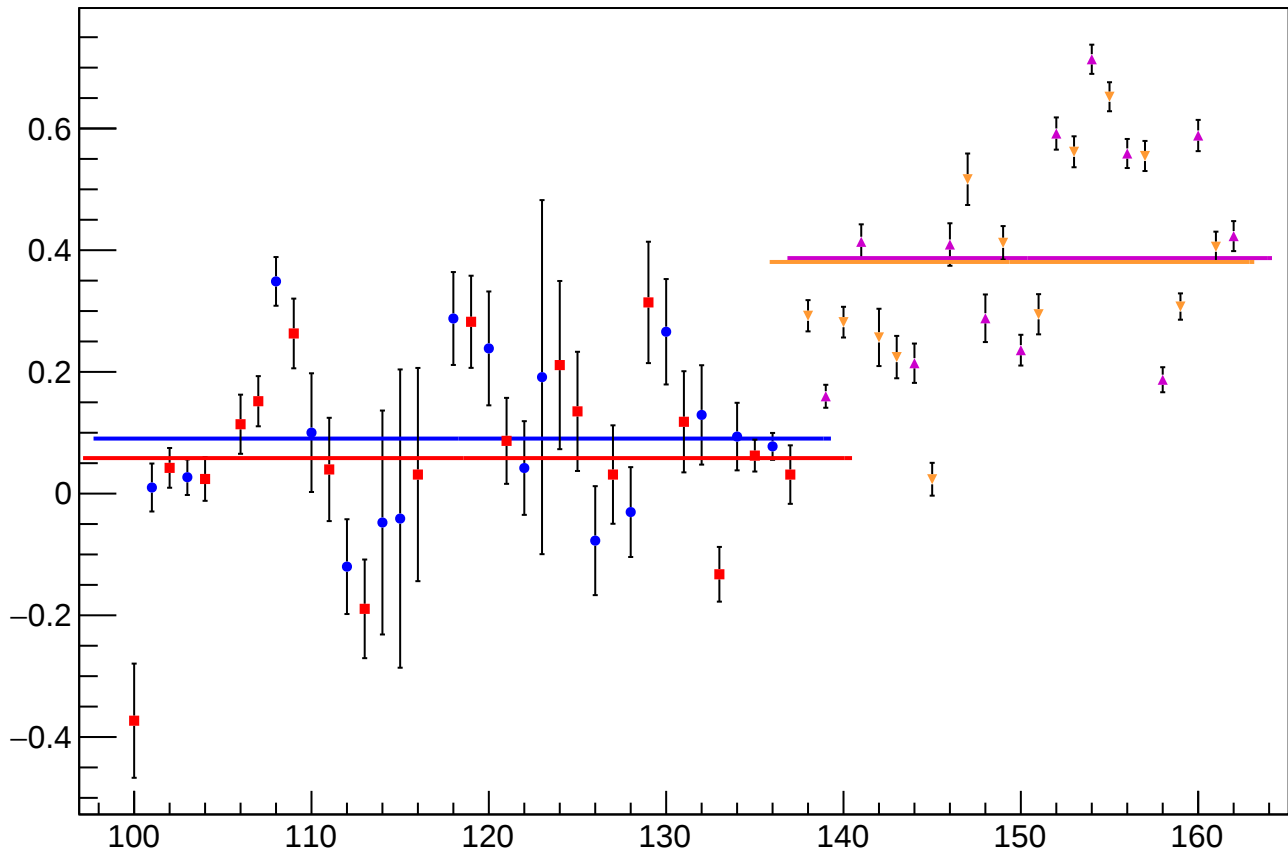
Right:  $-32.652 \pm 0.176$   $\chi^2/\text{NDF}: 10705.2/35$

In:  $-35.342 \pm 0.140$   $\chi^2/\text{NDF}: 5586.7/28$

Out:  $-35.394 \pm 0.138$   $\chi^2/\text{NDF}: 6859.4/31$

All:  $-35.368 \pm 0.098$   $\chi^2/\text{NDF}: 12446.2/60$

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.090 $\pm$ 0.013  $\chi^2$ /NDF: 79.2/16

Left Out: 0.381 $\pm$ 0.008  $\chi^2$ /NDF:490.5/12

Right Out: 0.058 $\pm$ 0.012  $\chi^2$ /NDF: 87.3/18

Left In: 0.387 $\pm$ 0.007  $\chi^2$ /NDF:672.0/11

Left: 0.384 $\pm$ 0.005  $\chi^2$ /NDF: 1162.9/24

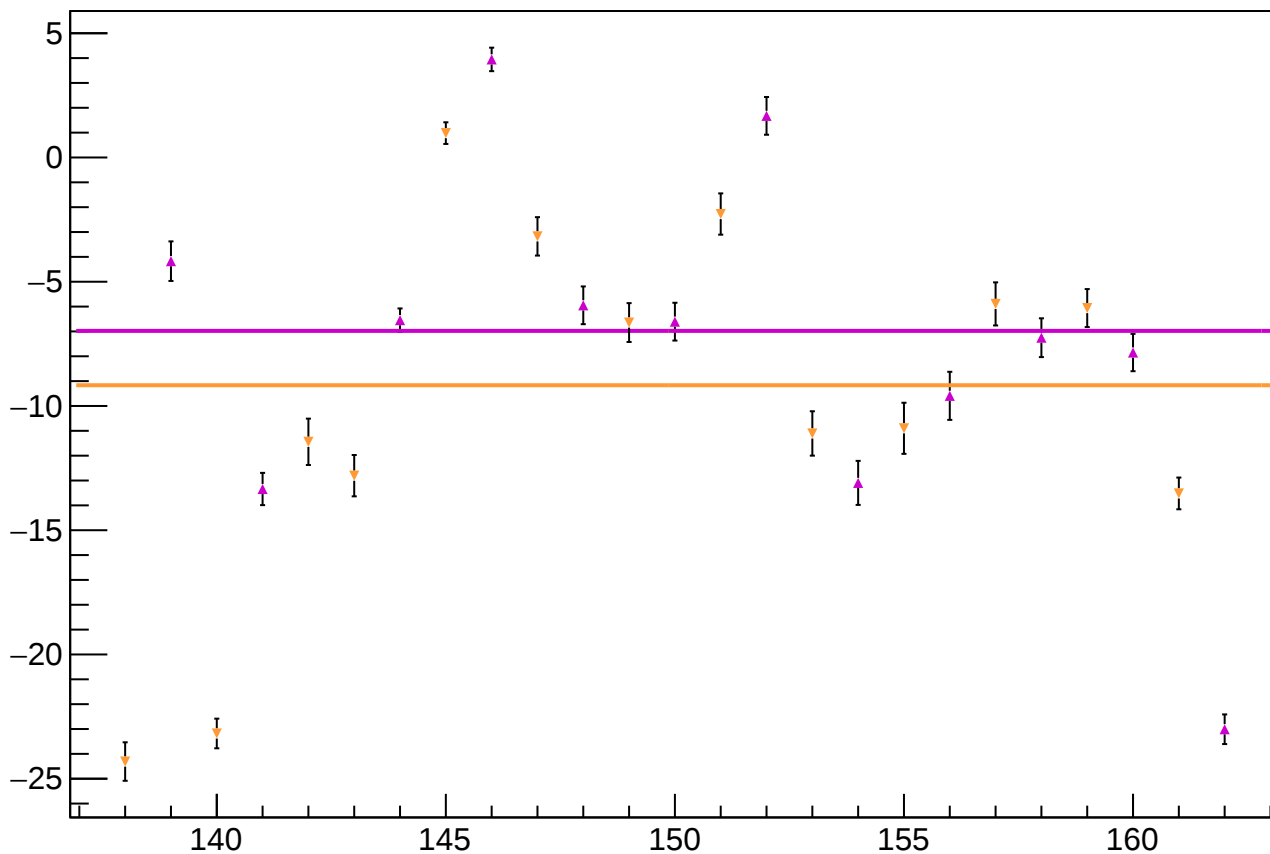
Right: 0.074 $\pm$ 0.009  $\chi^2$ /NDF: 169.9/35

In: 0.313 $\pm$ 0.006  $\chi^2$ /NDF:1158.5/28

Out: 0.290 $\pm$ 0.006  $\chi^2$ /NDF:1083.4/31

All: 0.301 $\pm$ 0.005  $\chi^2$ /NDF: 2248.4/60

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



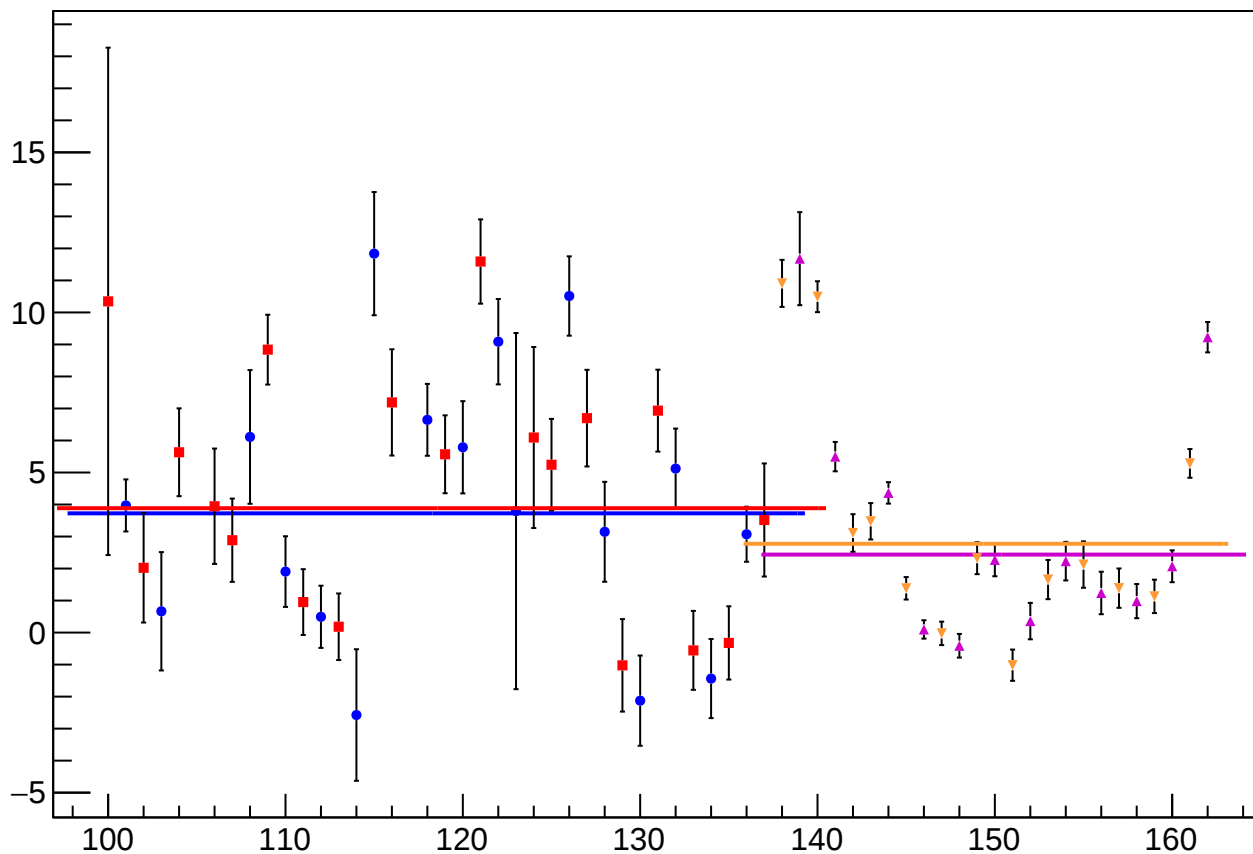
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.166 $\pm$ 0.201  $\chi^2$ /NDF:1724.4/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -6.978 $\pm$ 0.194  $\chi^2$ /NDF:1553.9/11

Left: -8.031 $\pm$ 0.139  $\chi^2$ /NDF: 3339.8/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -6.978 $\pm$ 0.194  $\chi^2$ /NDF:1553.9/11  
 Out: -9.166 $\pm$ 0.201  $\chi^2$ /NDF:1724.4/12

All: -8.031 $\pm$ 0.139  $\chi^2$ /NDF: 3339.8/24

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.725 \pm 0.308$   $\chi^2/\text{NDF}: 136.8/16$

Left Out:  $2.774 \pm 0.139$   $\chi^2/\text{NDF}: 566.3/12$

Right Out:  $3.885 \pm 0.316$   $\chi^2/\text{NDF}: 134.4/18$

Left In:  $2.436 \pm 0.132$   $\chi^2/\text{NDF}: 473.2/11$

Left:  $2.596 \pm 0.096$   $\chi^2/\text{NDF}: 1042.6/24$

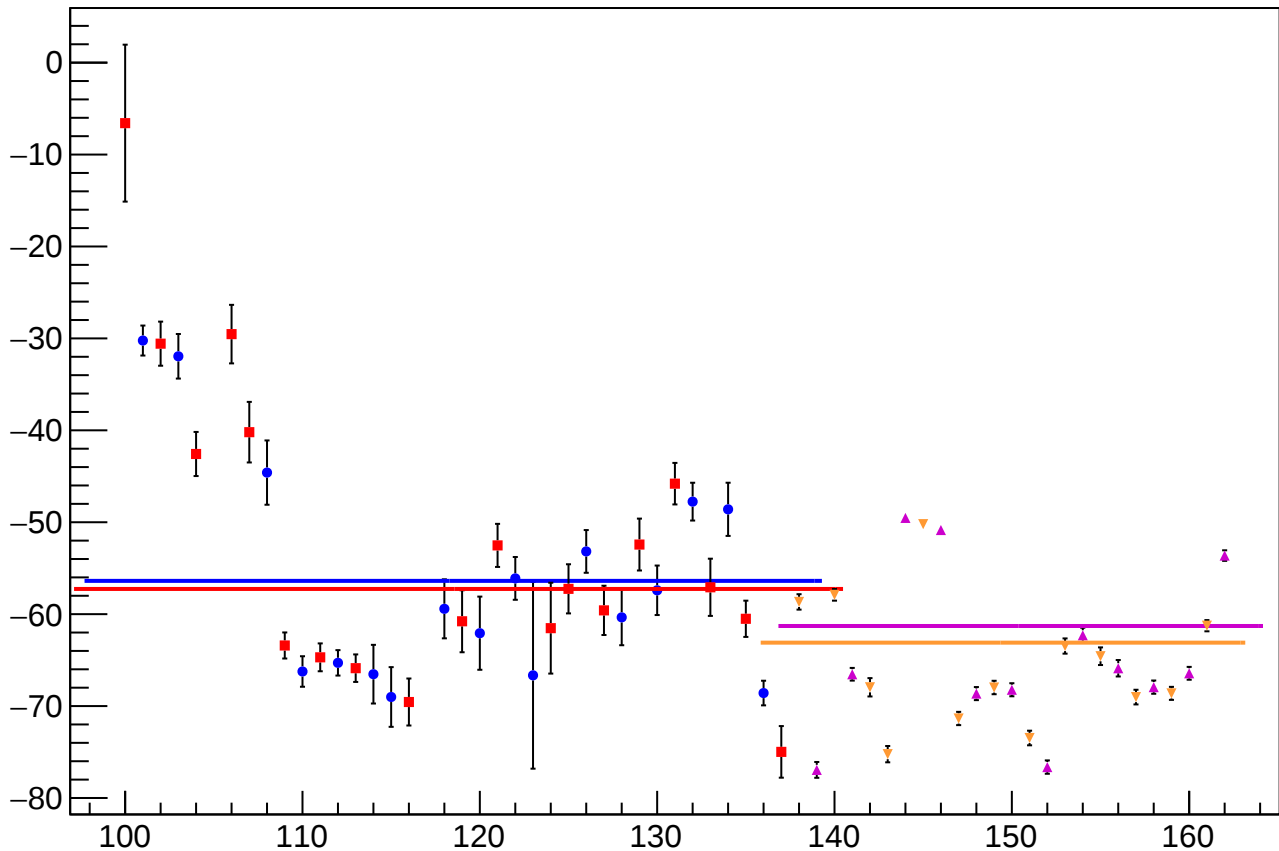
Right:  $3.803 \pm 0.221$   $\chi^2/\text{NDF}: 271.3/35$

In:  $2.635 \pm 0.121$   $\chi^2/\text{NDF}: 624.7/28$

Out:  $2.953 \pm 0.127$   $\chi^2/\text{NDF}: 711.0/31$

All:  $2.787 \pm 0.088$   $\chi^2/\text{NDF}: 1339.0/60$

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-56.379 \pm 0.542$   $\chi^2/\text{NDF}: 587.4/16$

Left Out:  $-63.099 \pm 0.200$   $\chi^2/\text{NDF}: 1550.6/12$

Right Out:  $-57.258 \pm 0.536$   $\chi^2/\text{NDF}: 476.1/18$

Left In:  $-61.287 \pm 0.190$   $\chi^2/\text{NDF}: 2453.4/11$

Left:  $-62.145 \pm 0.138$   $\chi^2/\text{NDF}: 4047.2/24$

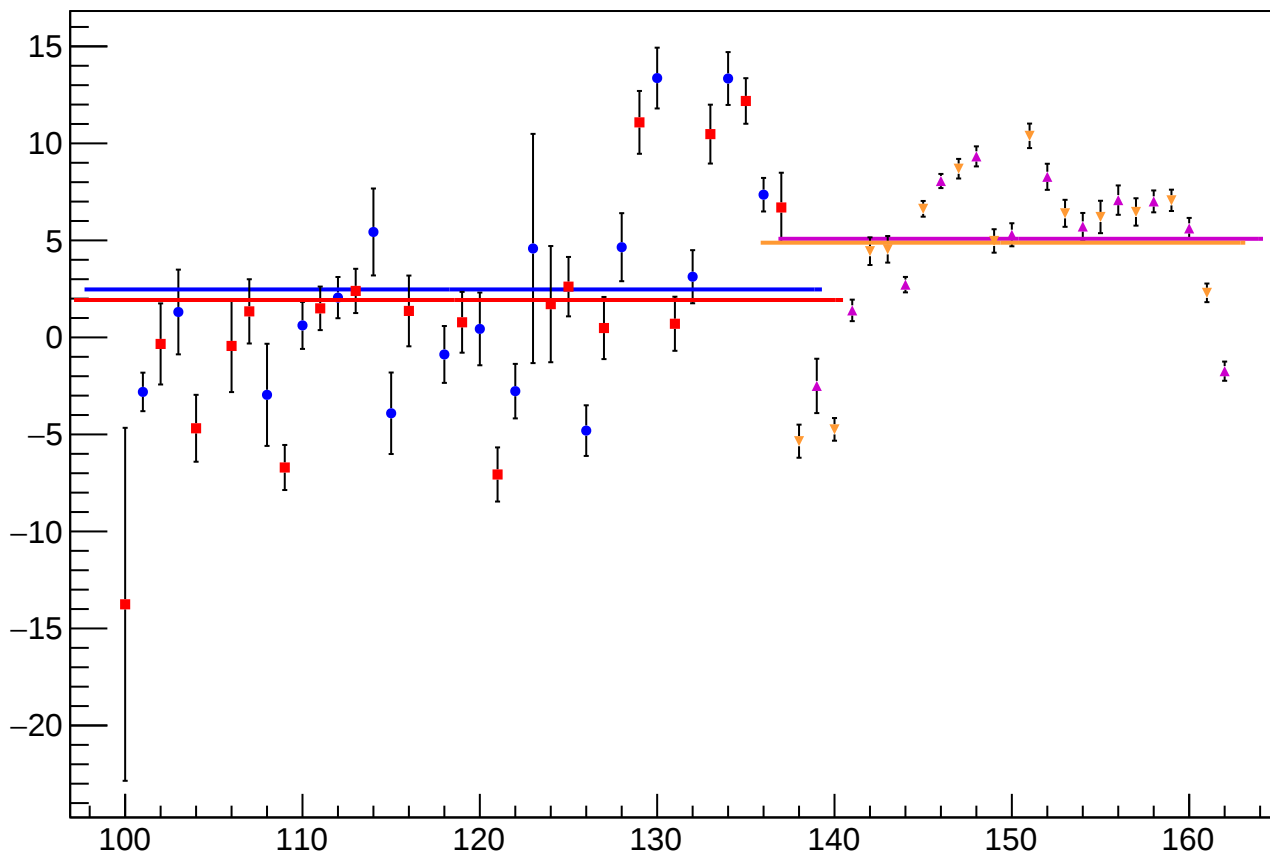
Right:  $-56.823 \pm 0.381$   $\chi^2/\text{NDF}: 1064.8/35$

In:  $-60.751 \pm 0.179$   $\chi^2/\text{NDF}: 3113.8/28$

Out:  $-62.384 \pm 0.187$   $\chi^2/\text{NDF}: 2130.9/31$

All:  $-61.530 \pm 0.129$   $\chi^2/\text{NDF}: 5284.4/60$

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $2.473 \pm 0.345$   $\chi^2/\text{NDF}$ : 243.6/16

Left Out:  $4.881 \pm 0.165$   $\chi^2/\text{NDF}$ : 624.5/12

Right Out:  $1.928 \pm 0.355$   $\chi^2/\text{NDF}$ : 266.6/18

Left In:  $5.082 \pm 0.156$   $\chi^2/\text{NDF}$ : 476.5/11

Left:  $4.987 \pm 0.113$   $\chi^2/\text{NDF}$ : 1101.8/24

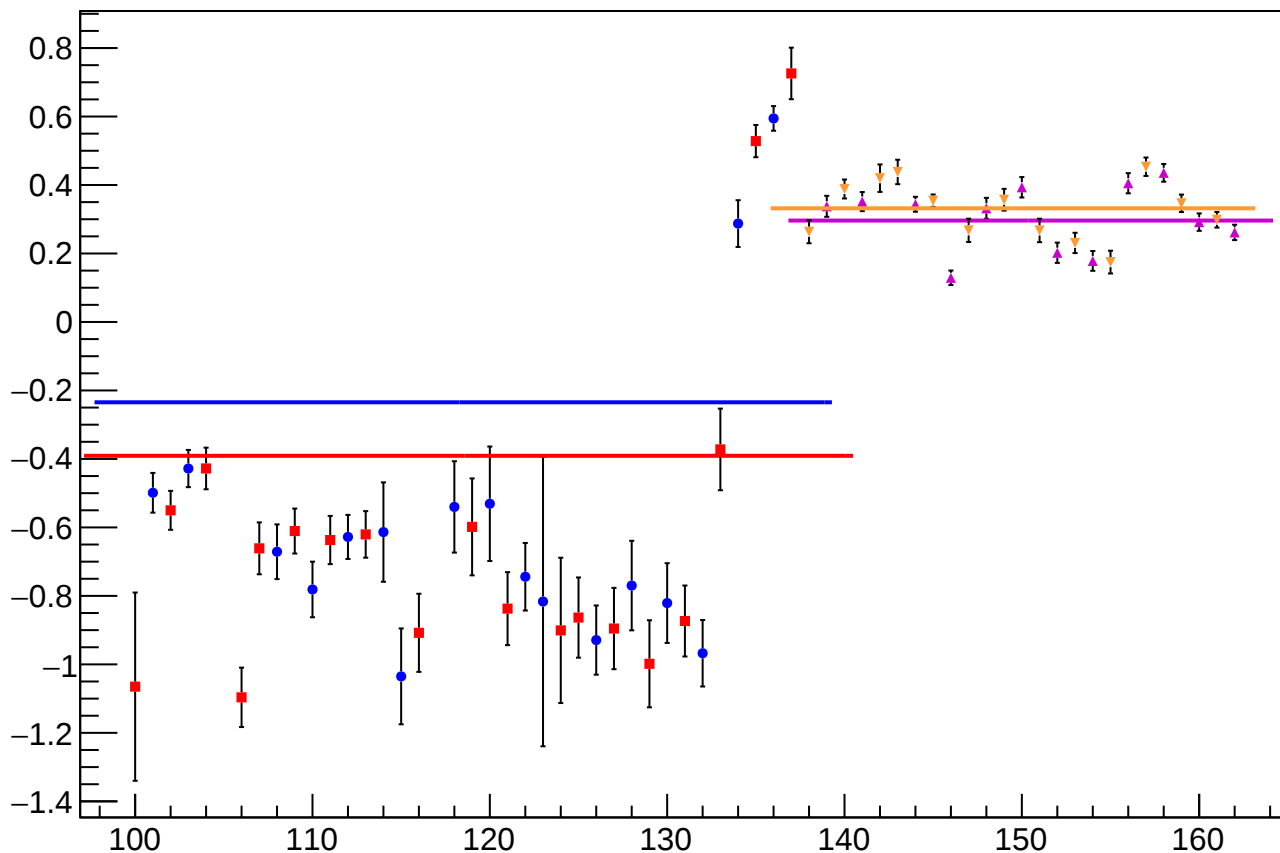
Right:  $2.208 \pm 0.248$   $\chi^2/\text{NDF}$ : 511.4/35

In:  $4.638 \pm 0.143$   $\chi^2/\text{NDF}$ : 767.4/28

Out:  $4.357 \pm 0.149$   $\chi^2/\text{NDF}$ : 948.1/31

All:  $4.504 \pm 0.103$   $\chi^2/\text{NDF}$ : 1717.3/60

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.235 \pm 0.019$   $\chi^2/\text{NDF}$ : 958.4/16

Left Out:  $0.332 \pm 0.008$   $\chi^2/\text{NDF}$ : 88.1/12

Right Out:  $-0.391 \pm 0.019$   $\chi^2/\text{NDF}$ : 853.3/18

Left In:  $0.296 \pm 0.008$   $\chi^2/\text{NDF}$ : 156.7/11

Left:  $0.313 \pm 0.005$   $\chi^2/\text{NDF}$ : 255.5/24

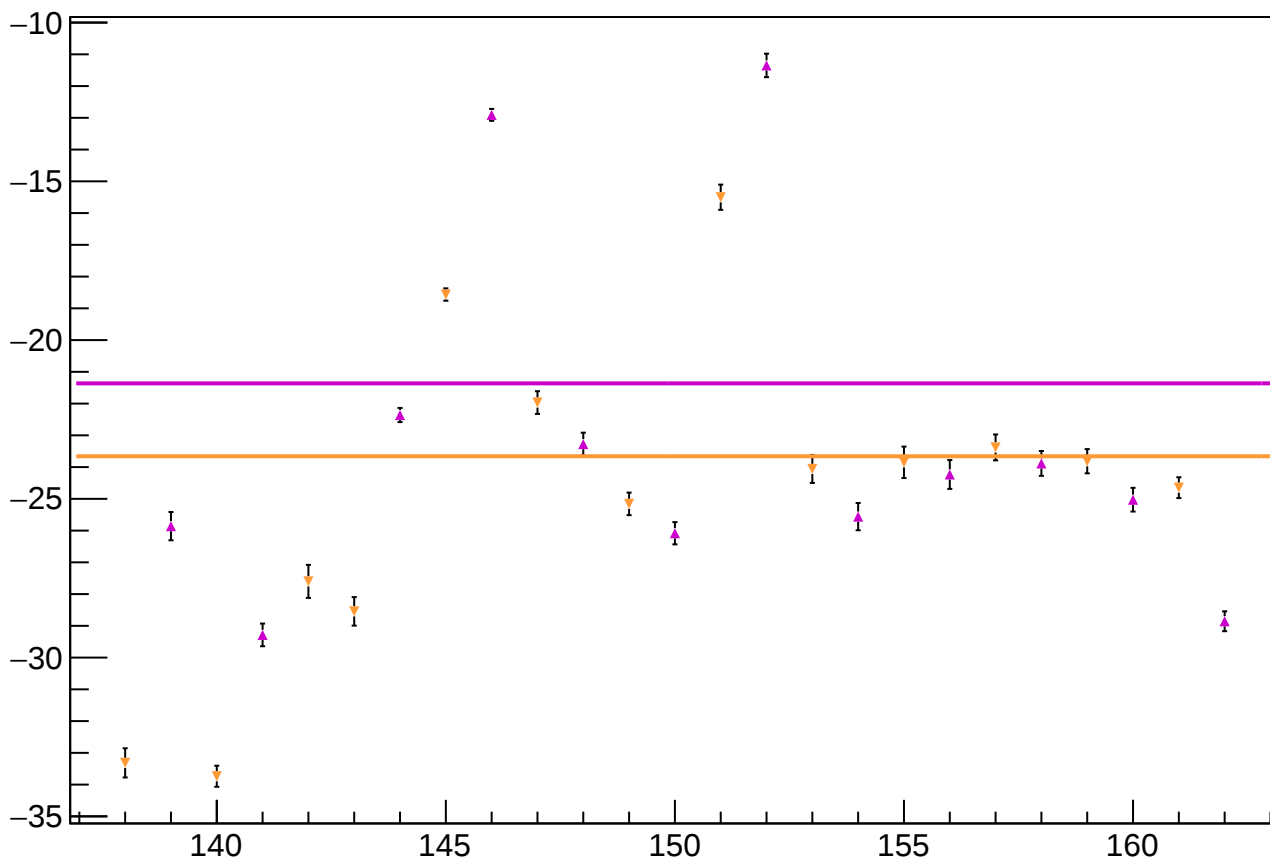
Right:  $-0.312 \pm 0.013$   $\chi^2/\text{NDF}$ : 1845.8/35

In:  $0.222 \pm 0.007$   $\chi^2/\text{NDF}$ : 1796.2/28

Out:  $0.226 \pm 0.007$   $\chi^2/\text{NDF}$ : 2182.3/31

All:  $0.224 \pm 0.005$   $\chi^2/\text{NDF}$ : 3978.5/60

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



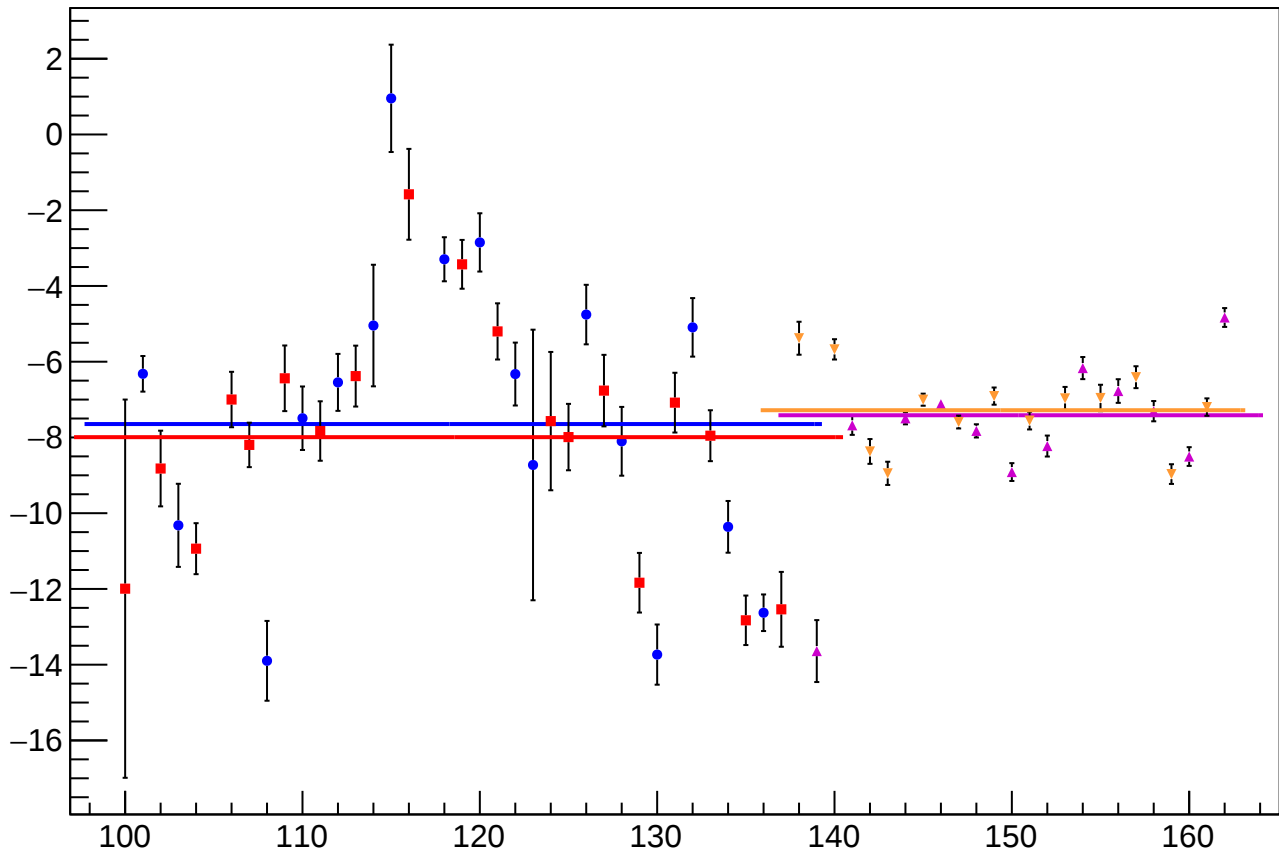
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-23.659 \pm 0.099$   $\chi^2/\text{NDF}: 2693.5/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-21.363 \pm 0.092$   $\chi^2/\text{NDF}: 4439.2/11$

Left:  $-22.425 \pm 0.067$   $\chi^2/\text{NDF}: 7422.4/24$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-21.363 \pm 0.092$   $\chi^2/\text{NDF}: 4439.2/11$   
 Out:  $-23.659 \pm 0.099$   $\chi^2/\text{NDF}: 2693.5/12$

All:  $-22.425 \pm 0.067$   $\chi^2/\text{NDF}: 7422.4/24$

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -7.646+/-0.186  $\chi^2/\text{NDF}$ : 393.6/16

Left Out: -7.281+/-0.068  $\chi^2/\text{NDF}$ :159.3/12

Right Out: -7.992+/-0.186  $\chi^2/\text{NDF}$ : 225.5/18

Left In: -7.414+/-0.062  $\chi^2/\text{NDF}$ :270.1/11

Left: -7.354+/-0.046  $\chi^2/\text{NDF}$ : 431.5/24

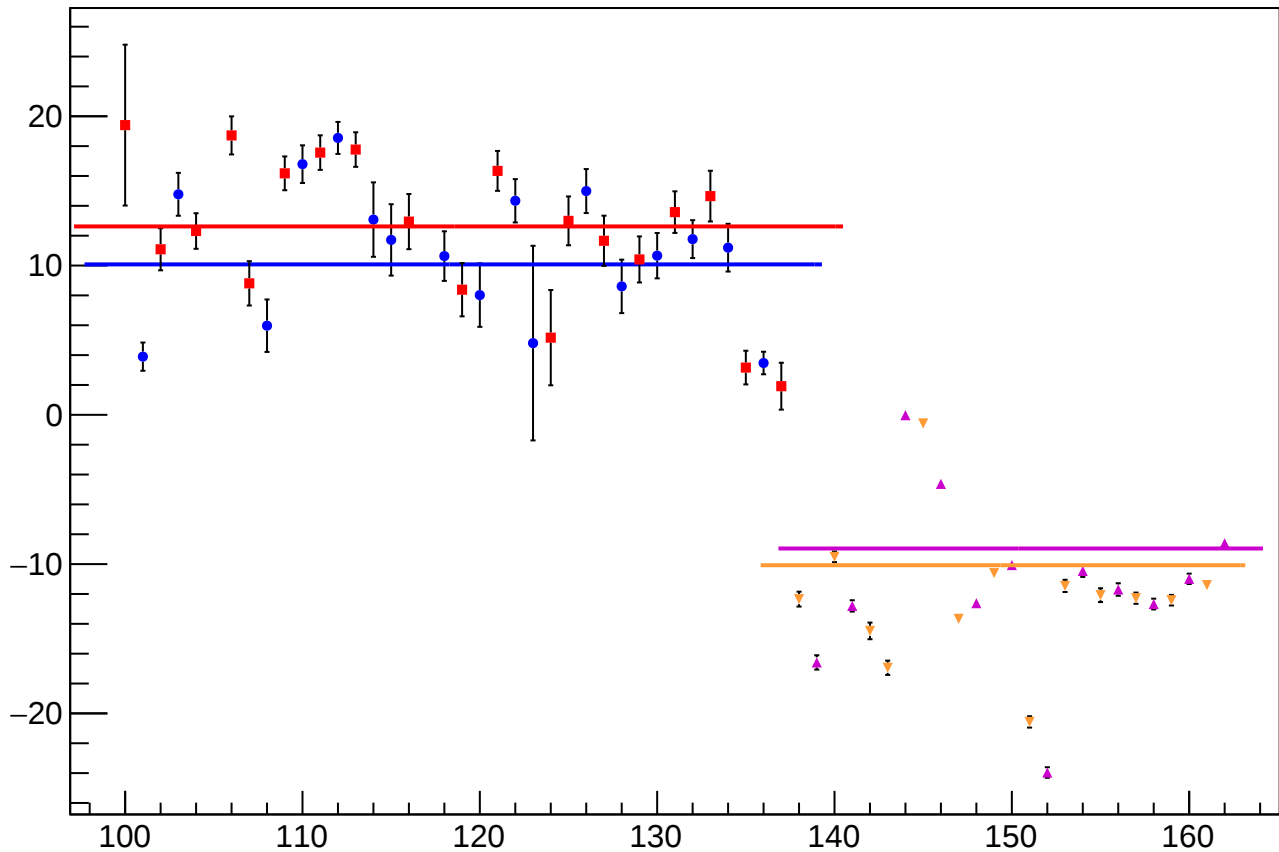
Right: -7.819+/-0.131  $\chi^2/\text{NDF}$ : 620.8/35

In: -7.437+/-0.059  $\chi^2/\text{NDF}$ :665.2/28

Out: -7.365+/-0.064  $\chi^2/\text{NDF}$ :397.7/31

All: -7.404+/-0.043  $\chi^2/\text{NDF}$ : 1063.5/60

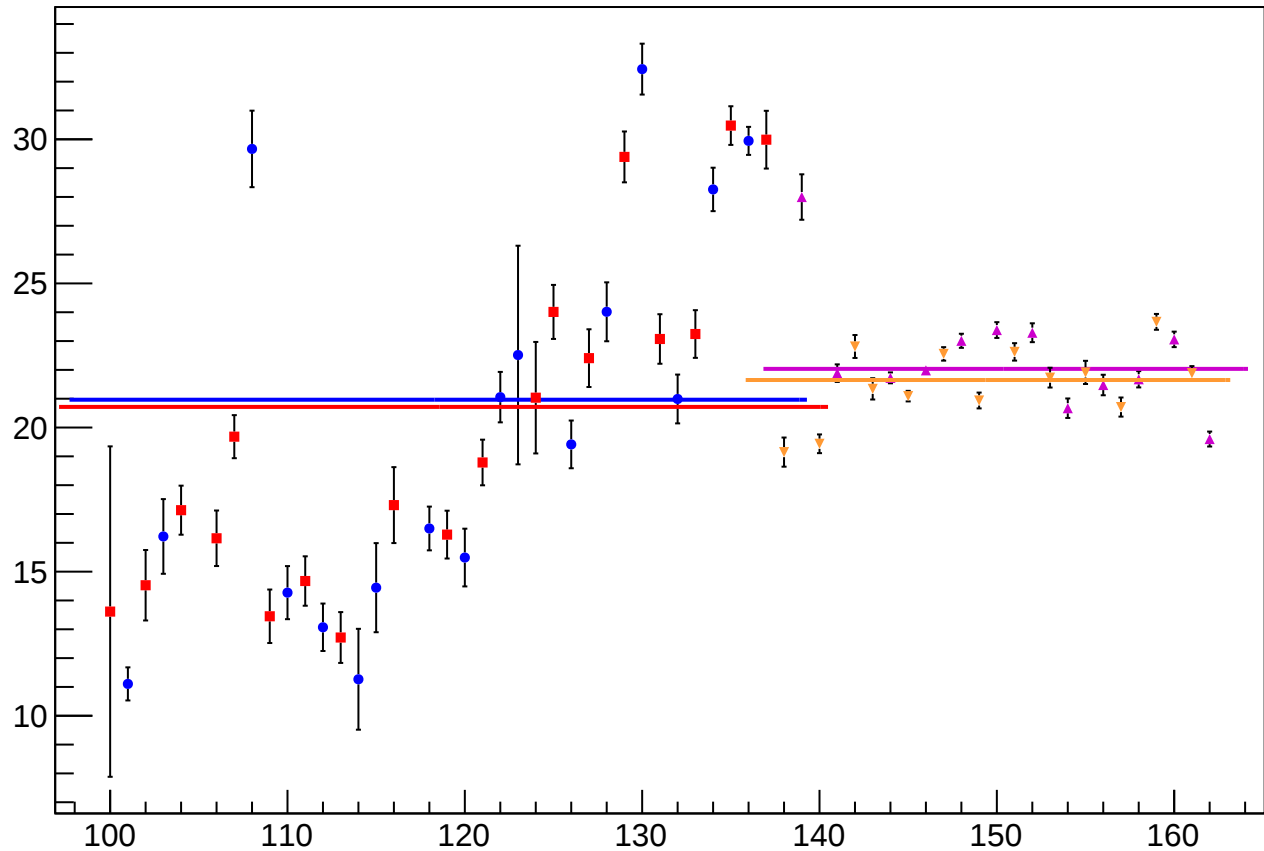
reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $10.077 \pm 0.337$   $\chi^2/\text{NDF}: 252.8/16$   
 Left Out:  $-10.075 \pm 0.098$   $\chi^2/\text{NDF}: 3421.8/12$   
 Right Out:  $12.620 \pm 0.332$   $\chi^2/\text{NDF}: 220.0/18$   
 Left In:  $-8.954 \pm 0.090$   $\chi^2/\text{NDF}: 4447.5/11$

Left:  $-9.464 \pm 0.066$   $\chi^2/\text{NDF}: 7940.6/24$   
 Right:  $11.365 \pm 0.237$   $\chi^2/\text{NDF}: 501.6/35$   
 In:  $-7.695 \pm 0.087$   $\chi^2/\text{NDF}: 7682.5/28$   
 Out:  $-8.259 \pm 0.094$   $\chi^2/\text{NDF}: 7929.5/31$   
 All:  $-7.954 \pm 0.064$   $\chi^2/\text{NDF}: 15631.4/60$

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 20.965 $\pm$ 0.209  $\chi^2$ /NDF: 1225.5/16

Left Out: 21.649 $\pm$ 0.081  $\chi^2$ /NDF:185.0/12

Right Out: 20.716 $\pm$ 0.213  $\chi^2$ /NDF: 729.9/18

Left In: 22.035 $\pm$ 0.074  $\chi^2$ /NDF:238.2/11

Left: 21.860 $\pm$ 0.054  $\chi^2$ /NDF: 435.6/24

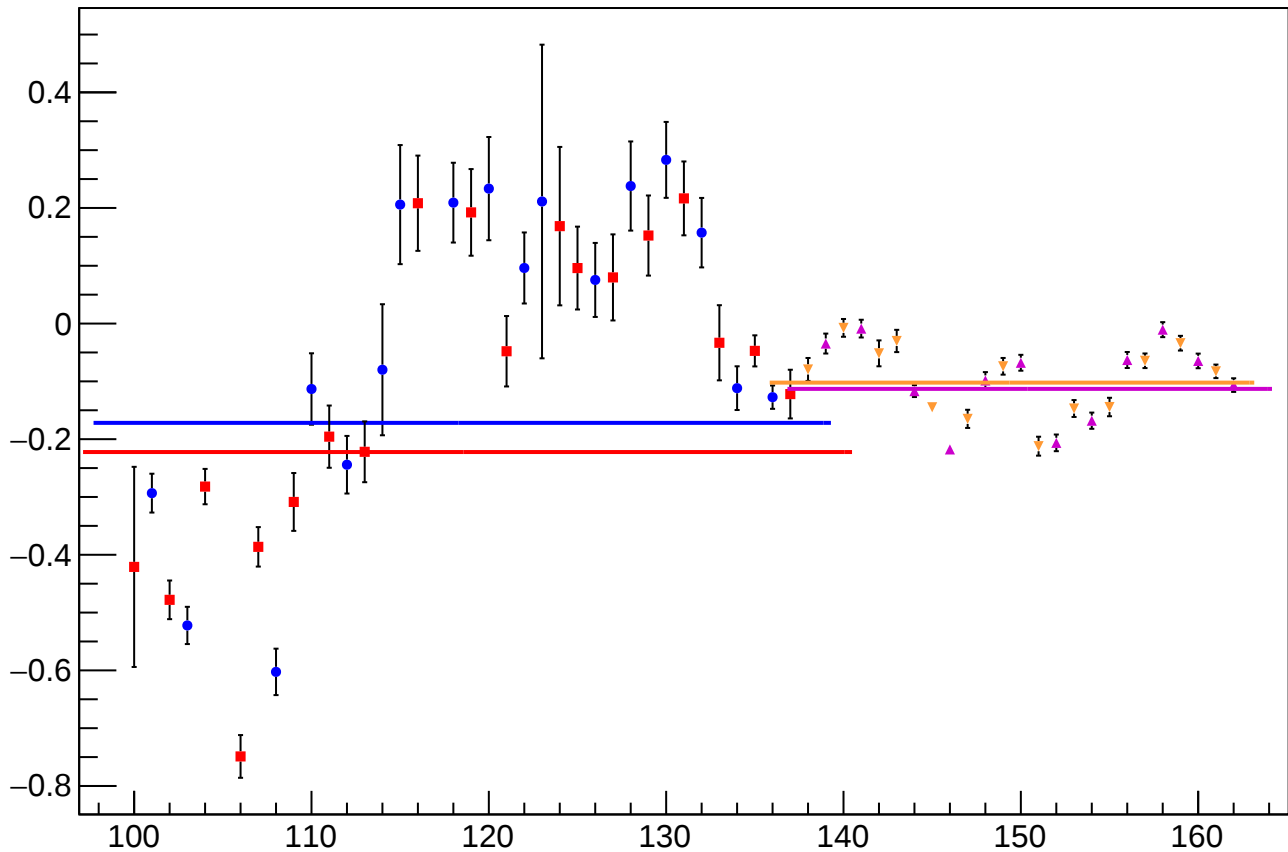
Right: 20.842 $\pm$ 0.149  $\chi^2$ /NDF: 1956.1/35

In: 21.917 $\pm$ 0.070  $\chi^2$ /NDF:1486.8/28

Out: 21.531 $\pm$ 0.076  $\chi^2$ /NDF:931.7/31

All: 21.740 $\pm$ 0.051  $\chi^2$ /NDF: 2432.7/60

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.172 \pm 0.011$   $\chi^2/\text{NDF}$ : 464.2/16

Left Out:  $-0.102 \pm 0.004$   $\chi^2/\text{NDF}$ : 207.6/12

Right Out:  $-0.222 \pm 0.011$   $\chi^2/\text{NDF}$ : 536.1/18

Left In:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}$ : 380.3/11

Left:  $-0.108 \pm 0.003$   $\chi^2/\text{NDF}$ : 592.1/24

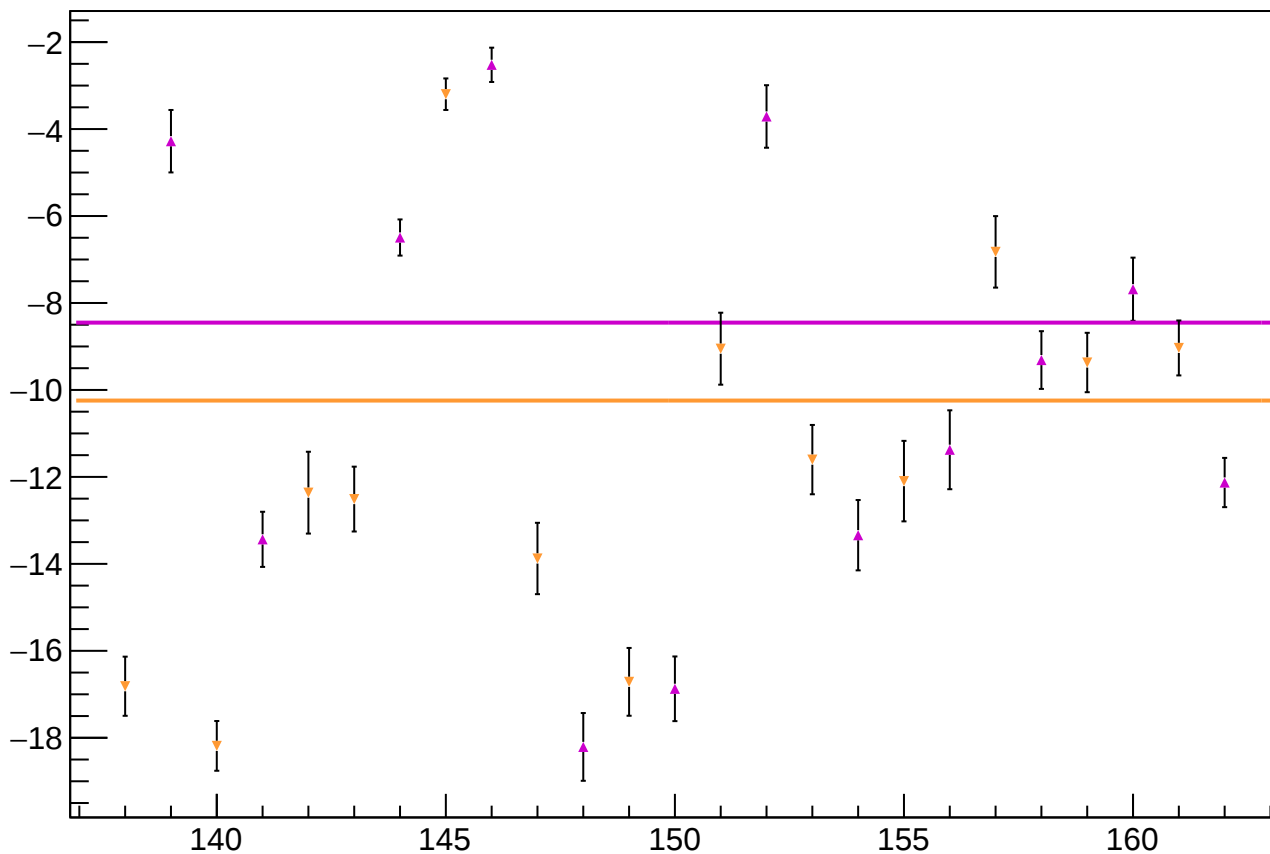
Right:  $-0.198 \pm 0.008$   $\chi^2/\text{NDF}$ : 1010.7/35

In:  $-0.119 \pm 0.003$   $\chi^2/\text{NDF}$ : 869.5/28

Out:  $-0.115 \pm 0.004$   $\chi^2/\text{NDF}$ : 850.9/31

All:  $-0.117 \pm 0.003$   $\chi^2/\text{NDF}$ : 1720.8/60

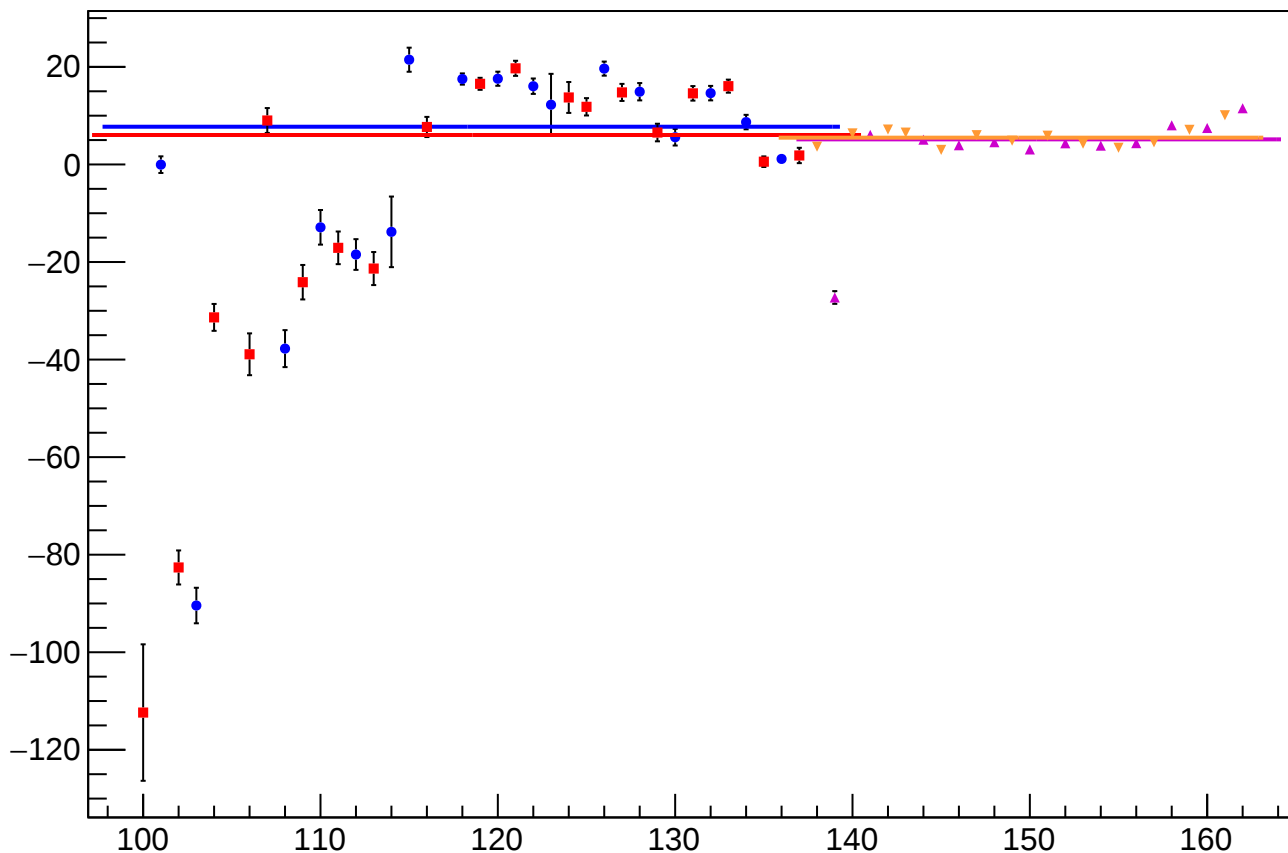
reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -10.244+/-0.185  $\chi^2/\text{NDF}$ : 797.8/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.452+/-0.177  $\chi^2/\text{NDF}$ : 764.0/11

Left: -9.306+/-0.128  $\chi^2/\text{NDF}$ : 1610.9/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.452+/-0.177  $\chi^2/\text{NDF}$ : 764.0/11  
 Out: -10.244+/-0.185  $\chi^2/\text{NDF}$ : 797.8/12  
 All: -9.306+/-0.128  $\chi^2/\text{NDF}$ : 1610.9/24

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.736 $\pm$ 0.403  $\chi^2$ /NDF: 1358.4/16

Left Out: 5.492 $\pm$ 0.130  $\chi^2$ /NDF:240.7/12

Right Out: 6.040 $\pm$ 0.434  $\chi^2$ /NDF: 1512.1/18

Left In: 5.143 $\pm$ 0.122  $\chi^2$ /NDF:934.3/11

Left: 5.306 $\pm$ 0.089  $\chi^2$ /NDF: 1178.8/24

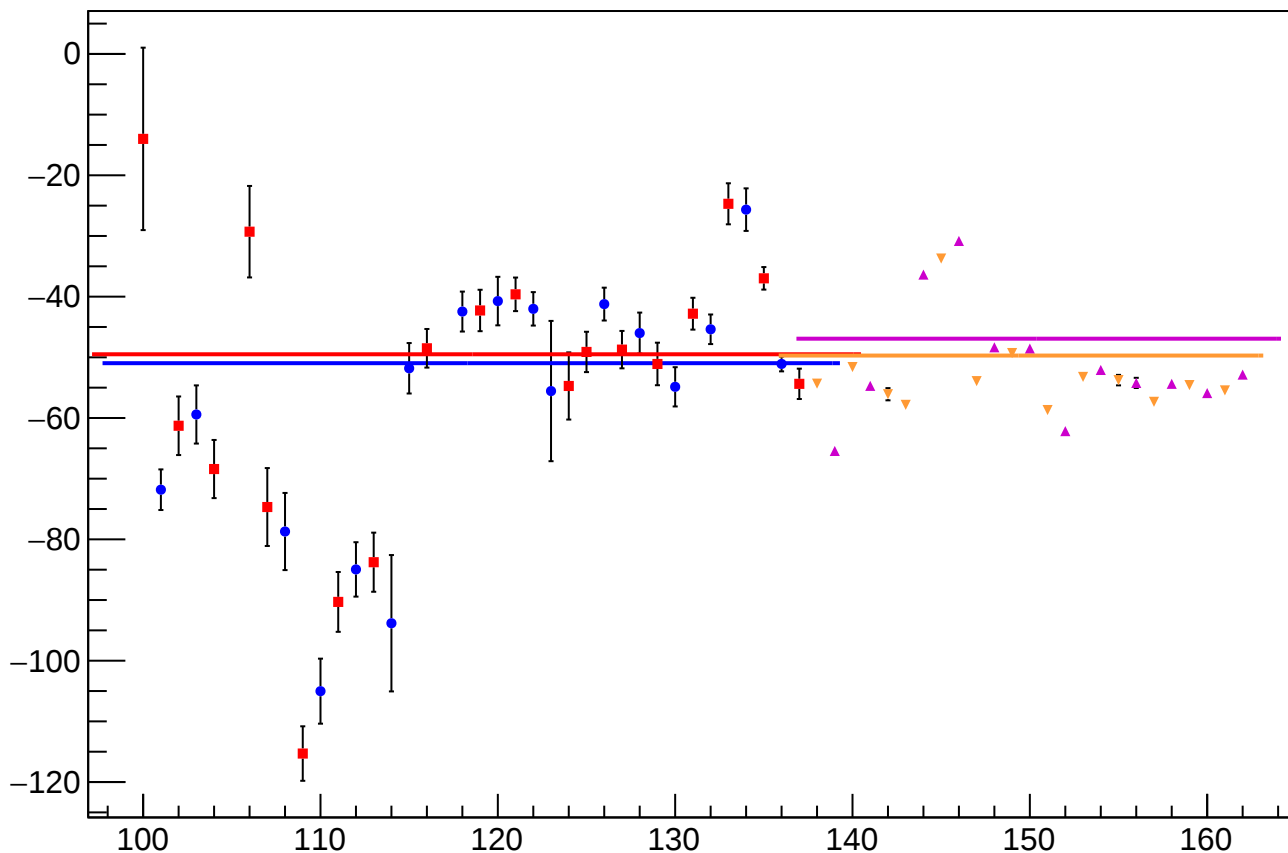
Right: 6.952 $\pm$ 0.295  $\chi^2$ /NDF: 2878.8/35

In: 5.361 $\pm$ 0.117  $\chi^2$ /NDF:2330.8/28

Out: 5.537 $\pm$ 0.125  $\chi^2$ /NDF:1754.3/31

All: 5.443 $\pm$ 0.085  $\chi^2$ /NDF: 4086.1/60

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-50.966 \pm 0.738$   $\chi^2/\text{NDF}: 332.7/16$

Left Out:  $-49.708 \pm 0.185$   $\chi^2/\text{NDF}: 2350.4/12$

Right Out:  $-49.497 \pm 0.797$   $\chi^2/\text{NDF}: 510.4/18$

Left In:  $-46.929 \pm 0.173$   $\chi^2/\text{NDF}: 4123.1/11$

Left:  $-48.225 \pm 0.127$   $\chi^2/\text{NDF}: 6593.3/24$

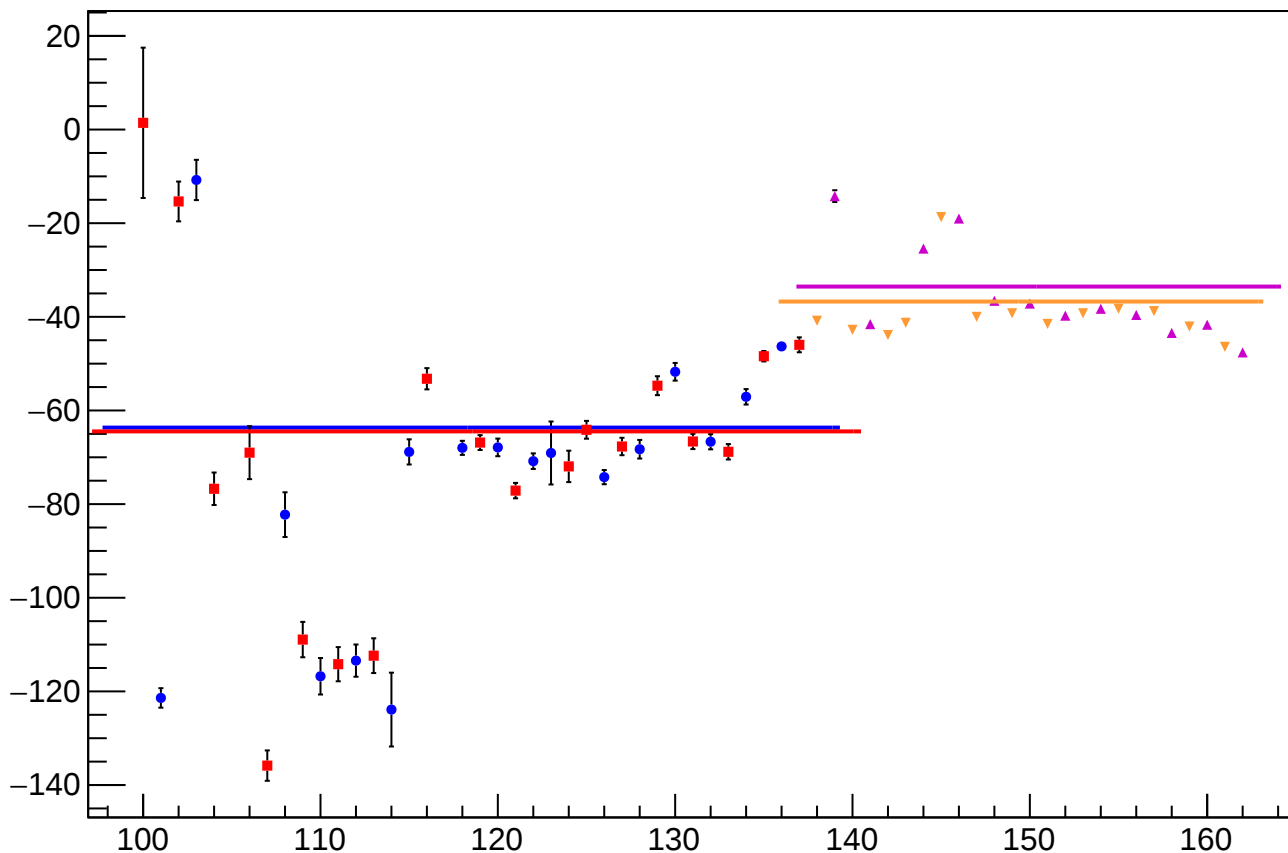
Right:  $-50.288 \pm 0.541$   $\chi^2/\text{NDF}: 844.9/35$

In:  $-47.140 \pm 0.169$   $\chi^2/\text{NDF}: 4484.1/28$

Out:  $-49.697 \pm 0.181$   $\chi^2/\text{NDF}: 2860.8/31$

All:  $-48.332 \pm 0.123$   $\chi^2/\text{NDF}: 7451.9/60$

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -63.656 $\pm$ 0.445  $\chi^2$ /NDF: 2014.7/16

Left Out: -36.733 $\pm$ 0.153  $\chi^2$ /NDF:3892.6/12

Right Out: -64.470 $\pm$ 0.483  $\chi^2$ /NDF: 1606.8/18

Left In: -33.537 $\pm$ 0.144  $\chi^2$ /NDF:4974.8/11

Left: -35.035 $\pm$ 0.105  $\chi^2$ /NDF: 9098.0/24

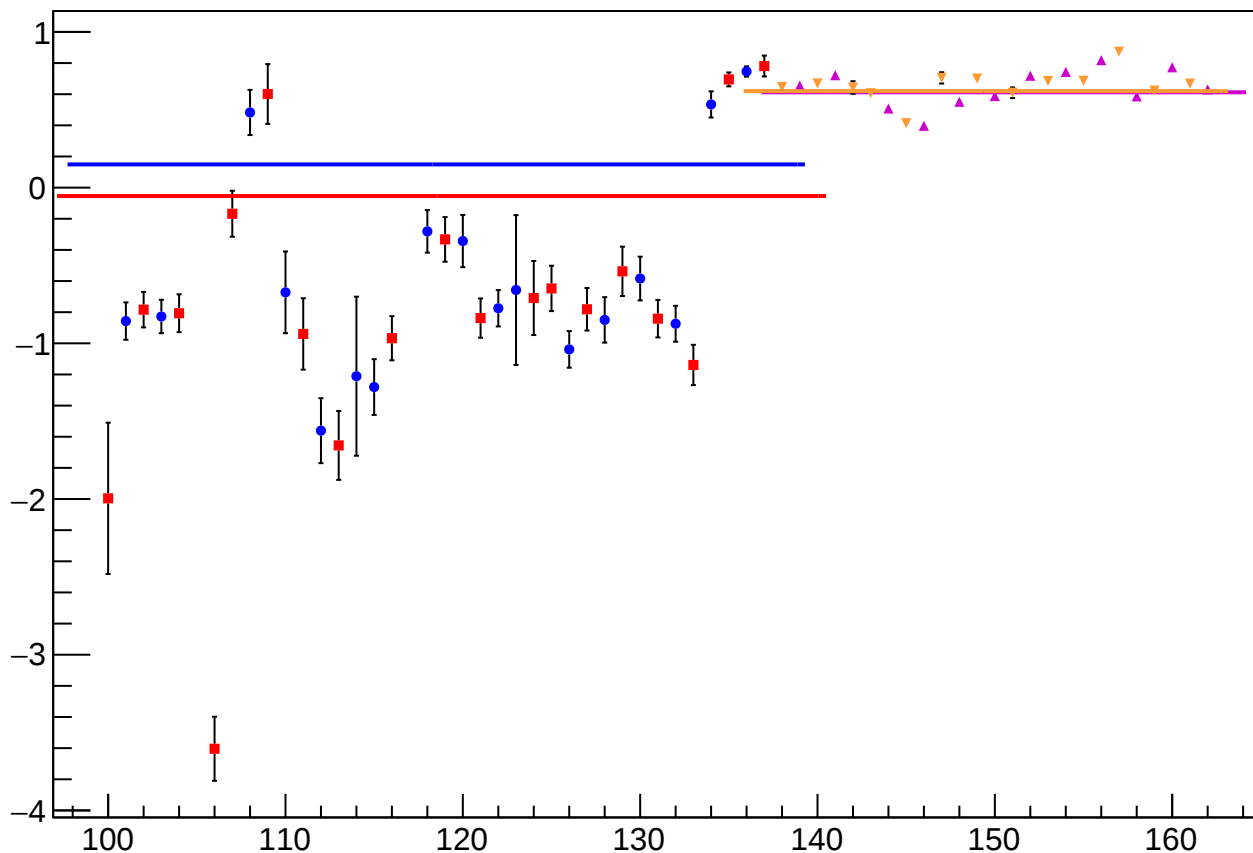
Right: -64.030 $\pm$ 0.327  $\chi^2$ /NDF: 3623.1/35

In: -36.391 $\pm$ 0.137  $\chi^2$ /NDF:11129.8/28

Out: -39.281 $\pm$ 0.146  $\chi^2$ /NDF:8500.4/31

All: -37.743 $\pm$ 0.100  $\chi^2$ /NDF: 19838.1/60

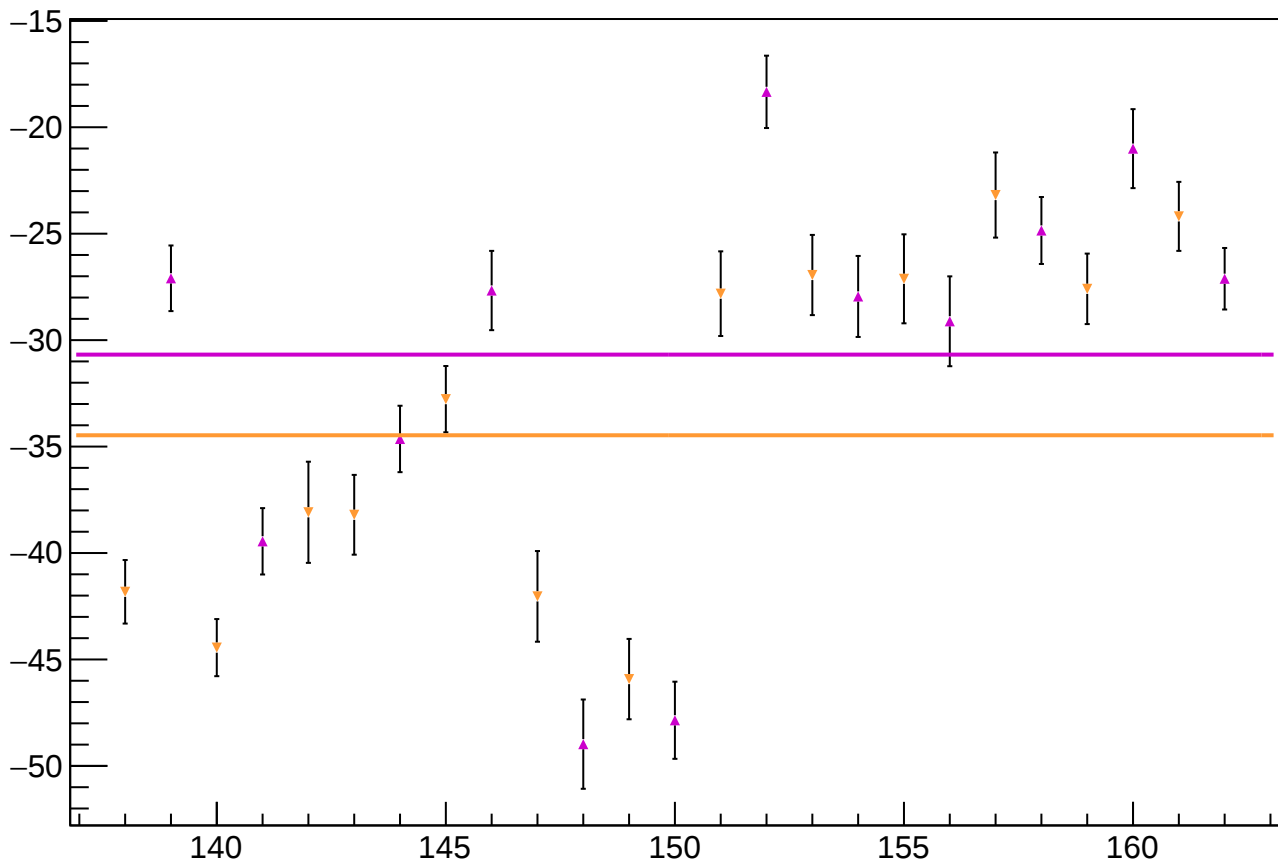
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.149 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.9/16  
 Left Out:  $0.620 \pm 0.007$   $\chi^2/\text{NDF}$ : 315.5/12  
 Right Out:  $-0.054 \pm 0.026$   $\chi^2/\text{NDF}$ : 1167.9/18  
 Left In:  $0.612 \pm 0.007$   $\chi^2/\text{NDF}$ : 337.2/11

Left:  $0.616 \pm 0.005$   $\chi^2/\text{NDF}$ : 653.3/24  
 Right:  $0.056 \pm 0.018$   $\chi^2/\text{NDF}$ : 2190.5/35  
 In:  $0.576 \pm 0.007$   $\chi^2/\text{NDF}$ : 1671.5/28  
 Out:  $0.572 \pm 0.007$   $\chi^2/\text{NDF}$ : 2098.5/31  
 All:  $0.574 \pm 0.005$   $\chi^2/\text{NDF}$ : 3770.1/60

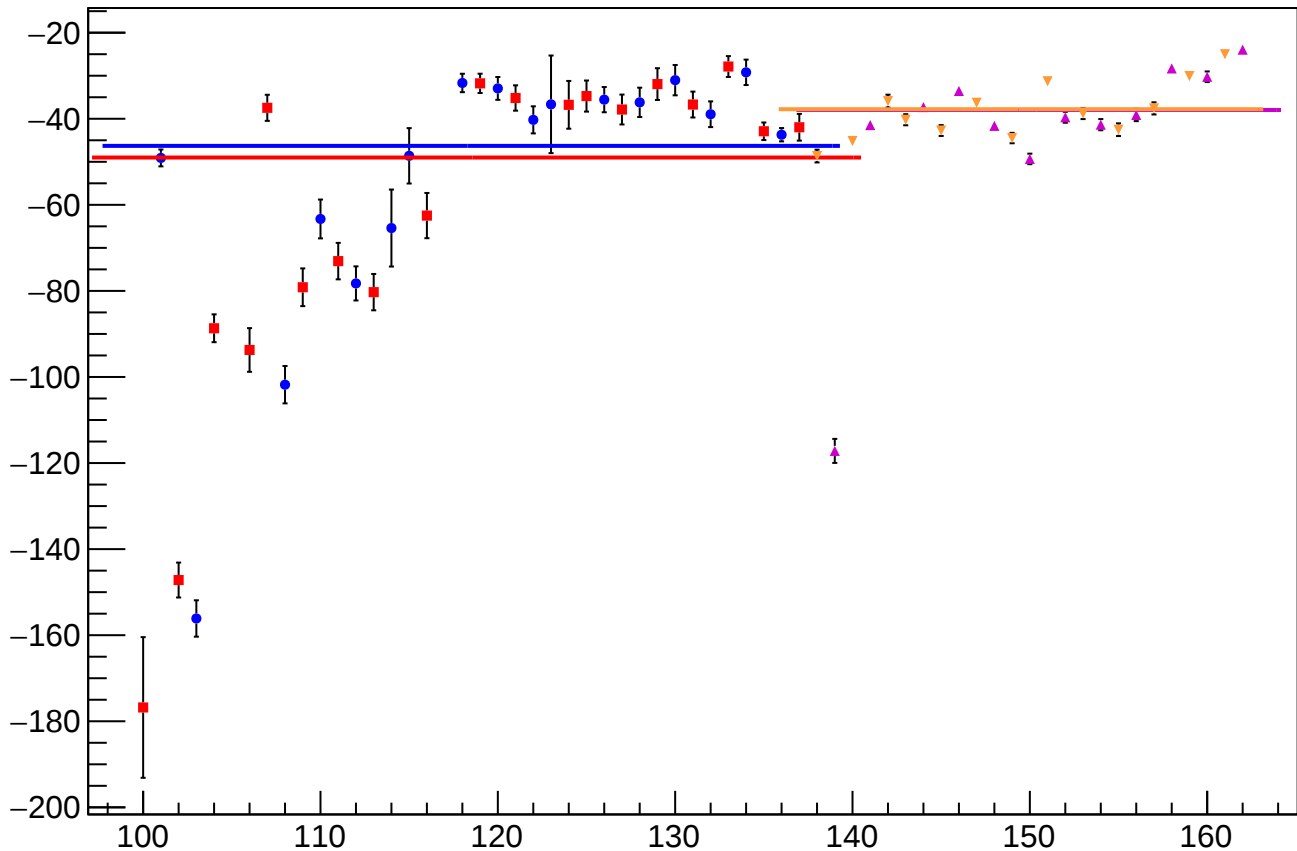
reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.469+/-0.491  $\chi^2/\text{NDF}$ :265.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -30.680+/-0.495  $\chi^2/\text{NDF}$ :314.5/11

Left: -32.587+/-0.349  $\chi^2/\text{NDF}$ : 609.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -30.680+/-0.495  $\chi^2/\text{NDF}$ :314.5/11  
 Out: -34.469+/-0.491  $\chi^2/\text{NDF}$ :265.4/12  
 All: -32.587+/-0.349  $\chi^2/\text{NDF}$ : 609.4/24

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-46.300 \pm 0.723$   $\chi^2/\text{NDF}$ : 1084.0/16

Left Out:  $-37.783 \pm 0.344$   $\chi^2/\text{NDF}$ : 366.3/12

Right Out:  $-49.008 \pm 0.764$   $\chi^2/\text{NDF}$ : 1271.7/18

Left In:  $-37.961 \pm 0.352$   $\chi^2/\text{NDF}$ : 1204.2/11

Left:  $-37.870 \pm 0.246$   $\chi^2/\text{NDF}$ : 1570.6/24

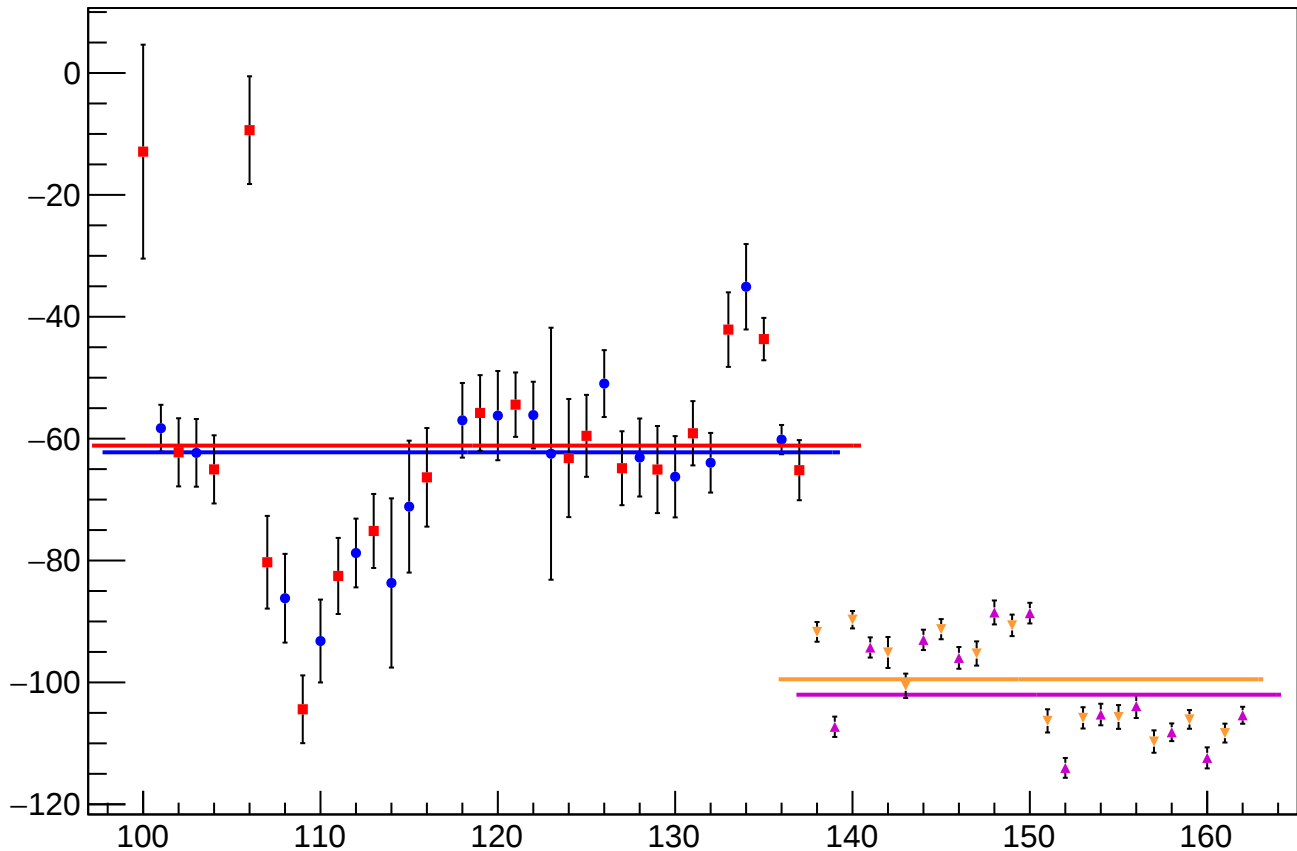
Right:  $-47.580 \pm 0.525$   $\chi^2/\text{NDF}$ : 2362.3/35

In:  $-39.559 \pm 0.316$   $\chi^2/\text{NDF}$ : 2395.9/28

Out:  $-39.678 \pm 0.314$   $\chi^2/\text{NDF}$ : 1817.5/31

All:  $-39.619 \pm 0.223$   $\chi^2/\text{NDF}$ : 4213.4/60

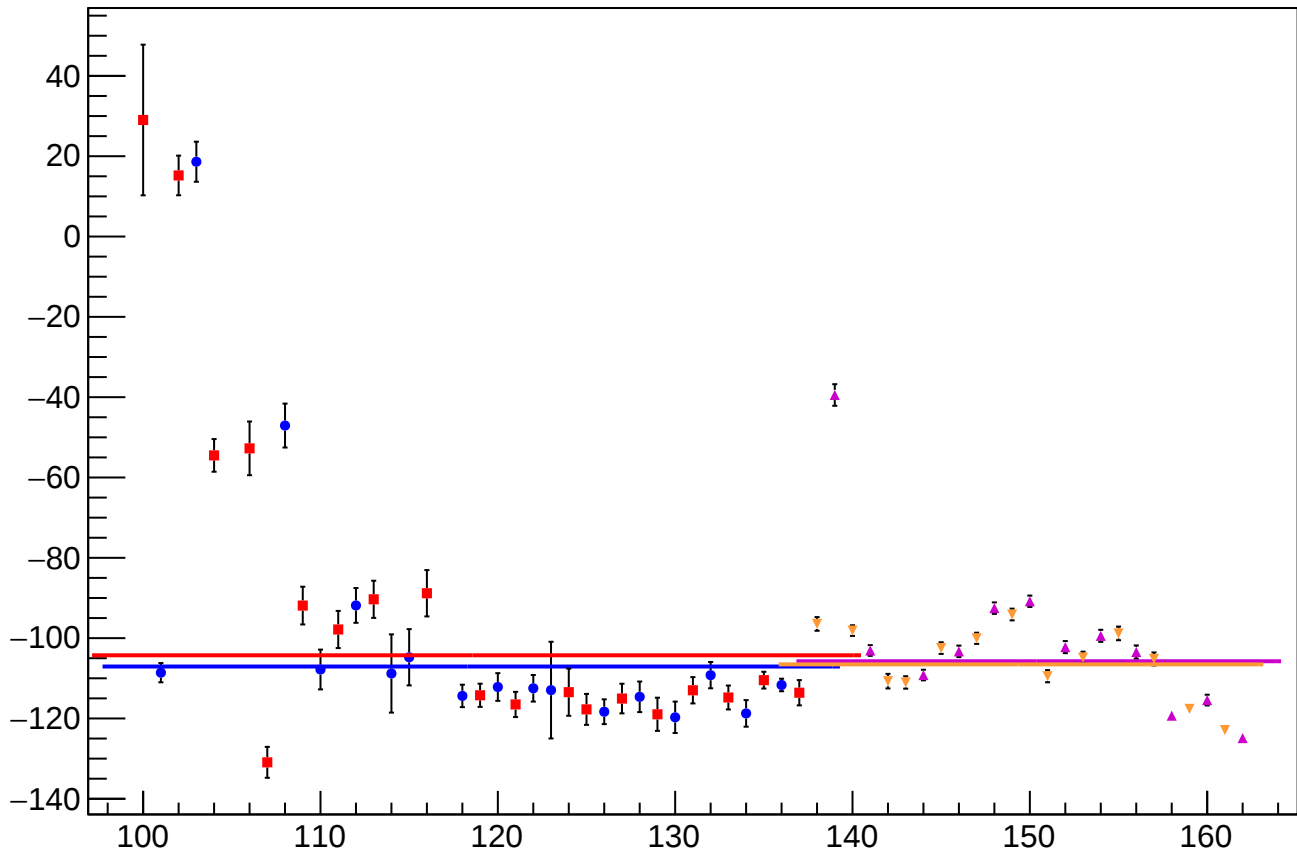
reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.242 \pm 1.310$   $\chi^2/\text{NDF}: 67.4/16$   
 Left Out:  $-99.483 \pm 0.487$   $\chi^2/\text{NDF}: 245.4/12$   
 Right Out:  $-61.142 \pm 1.379$   $\chi^2/\text{NDF}: 165.6/18$   
 Left In:  $-102.018 \pm 0.483$   $\chi^2/\text{NDF}: 300.7/11$

Left:  $-100.761 \pm 0.343$   $\chi^2/\text{NDF}: 559.7/24$   
 Right:  $-61.720 \pm 0.950$   $\chi^2/\text{NDF}: 233.3/35$   
 In:  $-97.262 \pm 0.453$   $\chi^2/\text{NDF}: 1179.6/28$   
 Out:  $-95.235 \pm 0.459$   $\chi^2/\text{NDF}: 1097.9/31$   
 All:  $-96.262 \pm 0.322$   $\chi^2/\text{NDF}: 2287.4/60$

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-107.066 \pm 0.811$   $\chi^2/\text{NDF}: 828.4/16$

Left Out:  $-106.536 \pm 0.405$   $\chi^2/\text{NDF}: 484.4/12$

Right Out:  $-104.269 \pm 0.861$   $\chi^2/\text{NDF}: 1018.6/18$

Left In:  $-105.753 \pm 0.408$   $\chi^2/\text{NDF}: 1288.7/11$

Left:  $-106.147 \pm 0.287$   $\chi^2/\text{NDF}: 1774.9/24$

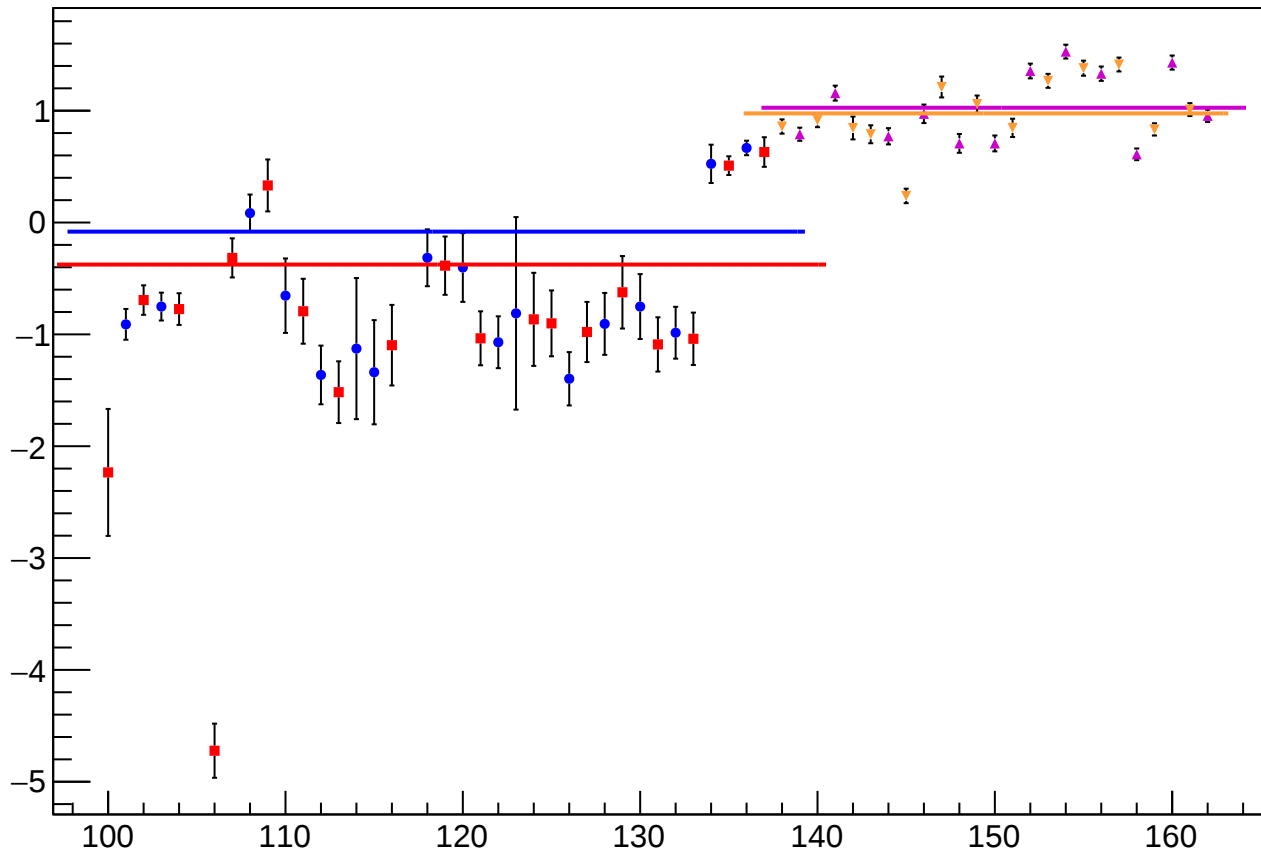
Right:  $-105.751 \pm 0.590$   $\chi^2/\text{NDF}: 1852.6/35$

In:  $-106.018 \pm 0.364$   $\chi^2/\text{NDF}: 2119.1/28$

Out:  $-106.125 \pm 0.367$   $\chi^2/\text{NDF}: 1508.7/31$

All:  $-106.071 \pm 0.258$   $\chi^2/\text{NDF}: 3627.9/60$

reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.081 \pm 0.042$   $\chi^2/\text{NDF}$ : 329.0/16

Left Out:  $0.976 \pm 0.019$   $\chi^2/\text{NDF}$ : 265.1/12

Right Out:  $-0.376 \pm 0.044$   $\chi^2/\text{NDF}$ : 583.0/18

Left In:  $1.026 \pm 0.019$   $\chi^2/\text{NDF}$ : 286.3/11

Left:  $1.001 \pm 0.013$   $\chi^2/\text{NDF}$ : 555.0/24

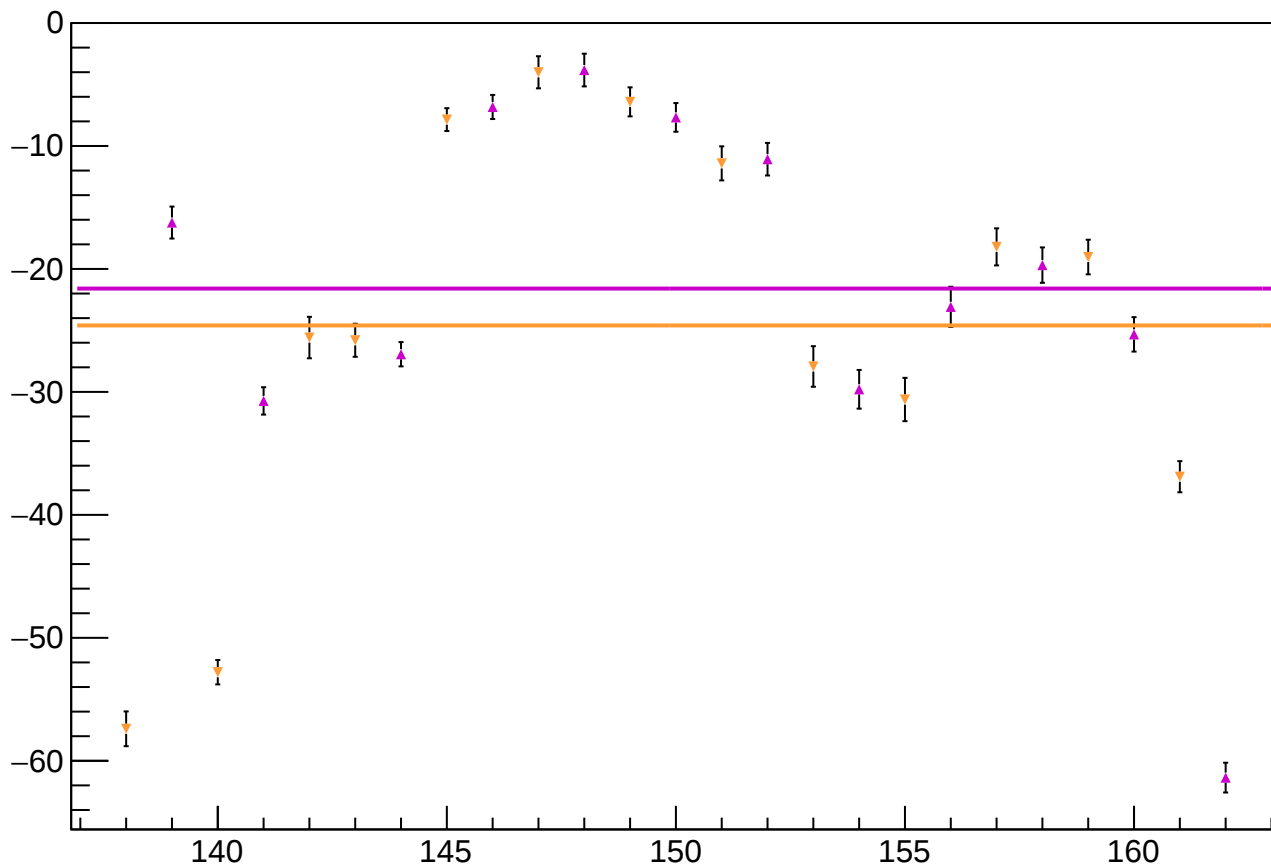
Right:  $-0.223 \pm 0.030$   $\chi^2/\text{NDF}$ : 935.4/35

In:  $0.845 \pm 0.017$   $\chi^2/\text{NDF}$ : 1192.2/28

Out:  $0.764 \pm 0.017$   $\chi^2/\text{NDF}$ : 1647.6/31

All:  $0.805 \pm 0.012$   $\chi^2/\text{NDF}$ : 2850.8/60

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -24.594+/-0.361  $\chi^2/\text{NDF}$ :2394.9/12

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

Left In: -21.596+/-0.358  $\chi^2/\text{NDF}$ :1840.1/11

Left: -23.083+/-0.254  $\chi^2/\text{NDF}$ : 4269.7/24

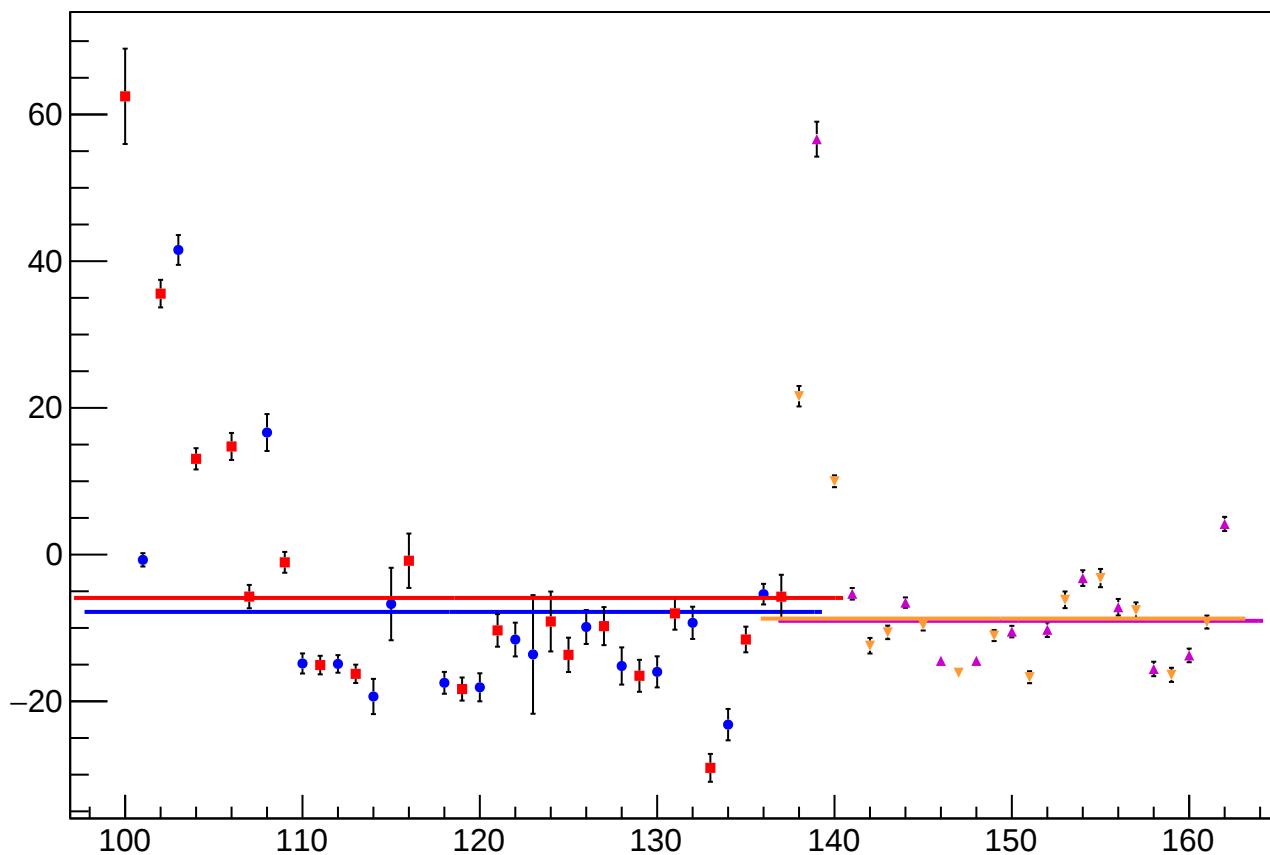
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -21.596+/-0.358  $\chi^2/\text{NDF}$ :1840.1/11

Out: -24.594+/-0.361  $\chi^2/\text{NDF}$ :2394.9/12

All: -23.083+/-0.254  $\chi^2/\text{NDF}$ : 4269.7/24

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.812 \pm 0.427$   $\chi^2/\text{NDF}$ : 982.8/16

Left Out:  $-8.725 \pm 0.248$   $\chi^2/\text{NDF}$ : 1361.7/12

Right Out:  $-5.908 \pm 0.429$   $\chi^2/\text{NDF}$ : 1293.1/18

Left In:  $-9.029 \pm 0.248$   $\chi^2/\text{NDF}$ : 1238.0/11

Left:  $-8.877 \pm 0.175$   $\chi^2/\text{NDF}$ : 2600.5/24

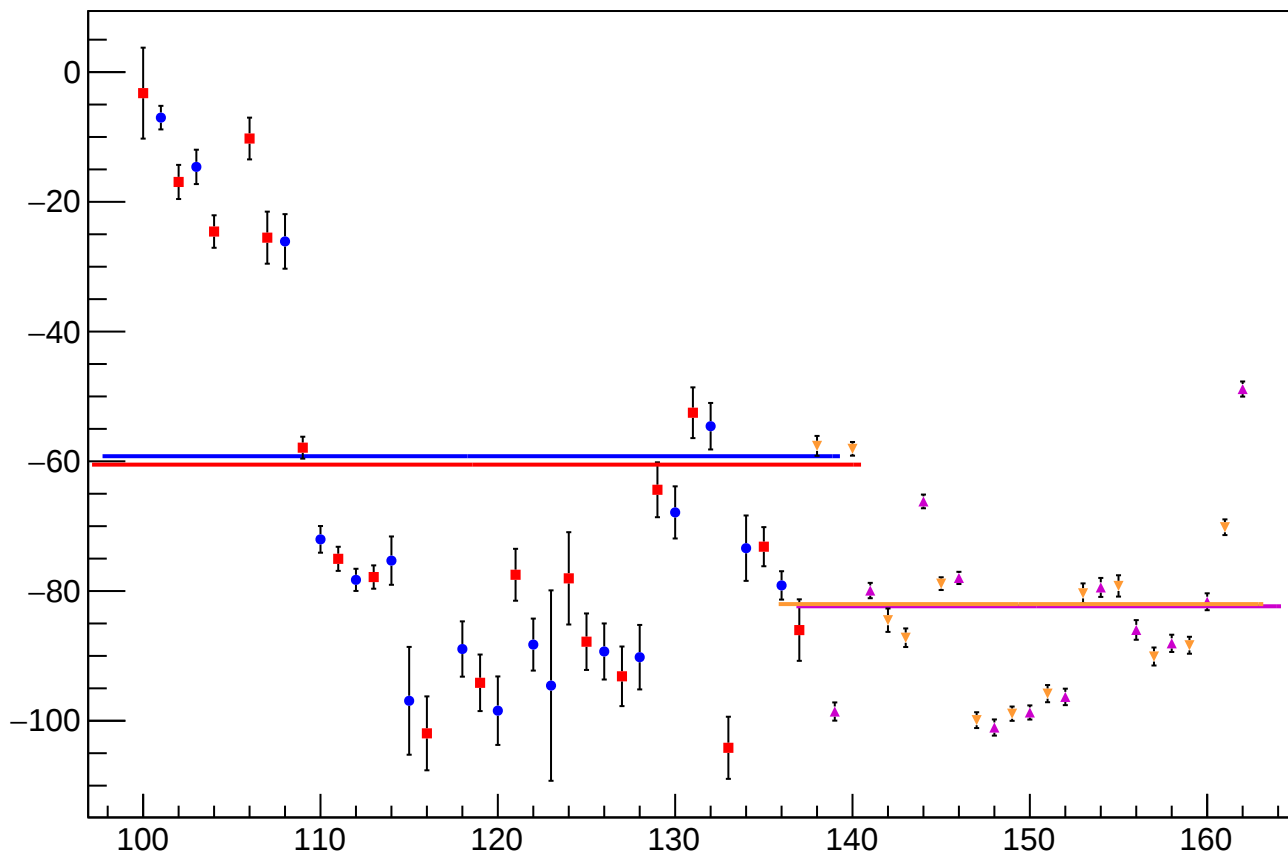
Right:  $-6.864 \pm 0.303$   $\chi^2/\text{NDF}$ : 2285.7/35

In:  $-8.723 \pm 0.214$   $\chi^2/\text{NDF}$ : 2226.8/28

Out:  $-8.020 \pm 0.215$   $\chi^2/\text{NDF}$ : 2687.1/31

All:  $-8.372 \pm 0.152$   $\chi^2/\text{NDF}$ : 4919.3/60

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -59.214+/-0.744  $\chi^2/\text{NDF}$ : 1720.4/16

Left Out: -82.012+/-0.358  $\chi^2/\text{NDF}$ :1509.7/12

Right Out: -60.513+/-0.704  $\chi^2/\text{NDF}$ : 1383.9/18

Left In: -82.349+/-0.350  $\chi^2/\text{NDF}$ :1817.1/11

Left: -82.184+/-0.250  $\chi^2/\text{NDF}$ : 3327.2/24

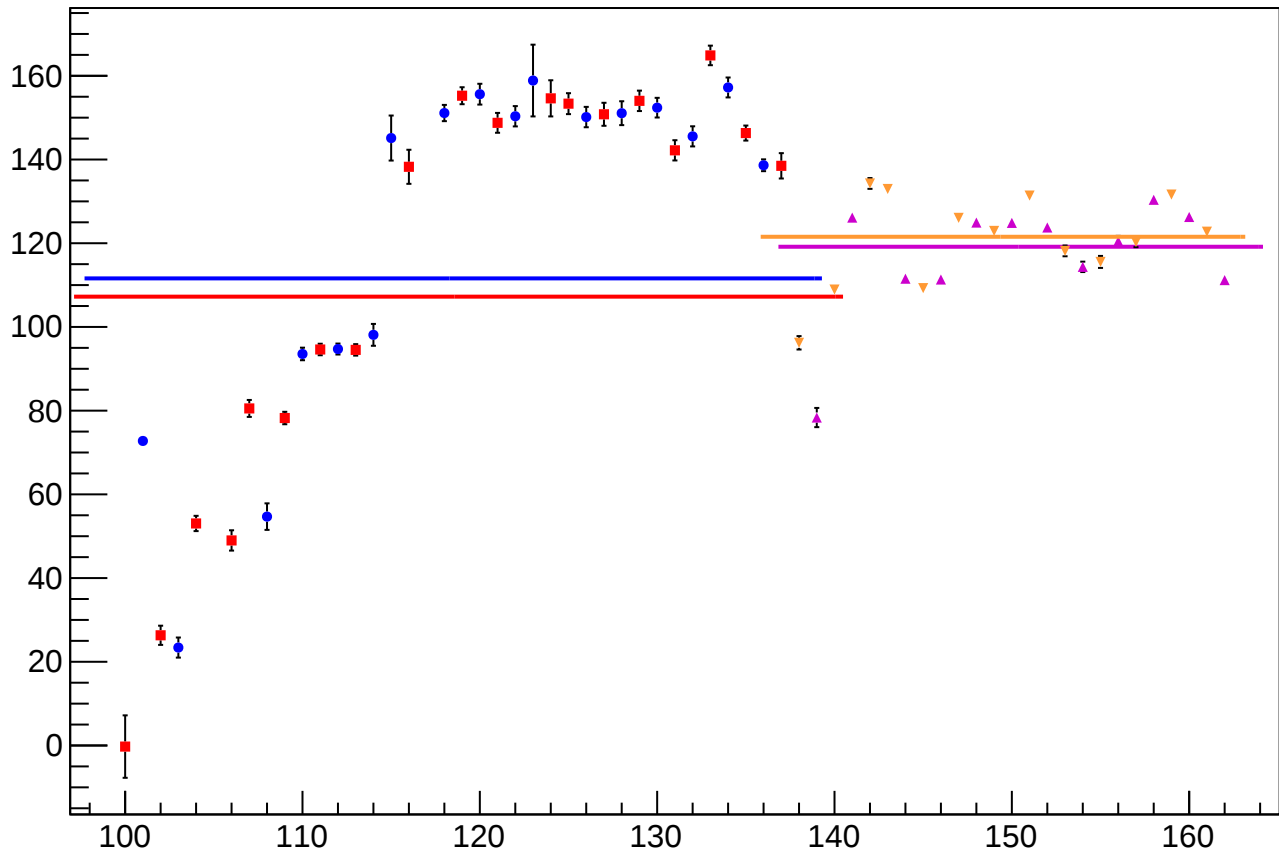
Right: -59.899+/-0.511  $\chi^2/\text{NDF}$ : 3105.9/35

In: -78.146+/-0.317  $\chi^2/\text{NDF}$ :4329.3/28

Out: -77.597+/-0.319  $\chi^2/\text{NDF}$ :3634.3/31

All: -77.873+/-0.225  $\chi^2/\text{NDF}$ : 7965.1/60

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 111.599 $\pm$ 0.487  $\chi^2$ /NDF: 5959.5/16

Left Out: 121.545 $\pm$ 0.295  $\chi^2$ /NDF:1060.2/12

Right Out: 107.238 $\pm$ 0.488  $\chi^2$ /NDF: 7037.4/18

Left In: 119.161 $\pm$ 0.292  $\chi^2$ /NDF:896.0/11

Left: 120.340 $\pm$ 0.208  $\chi^2$ /NDF: 1989.1/24

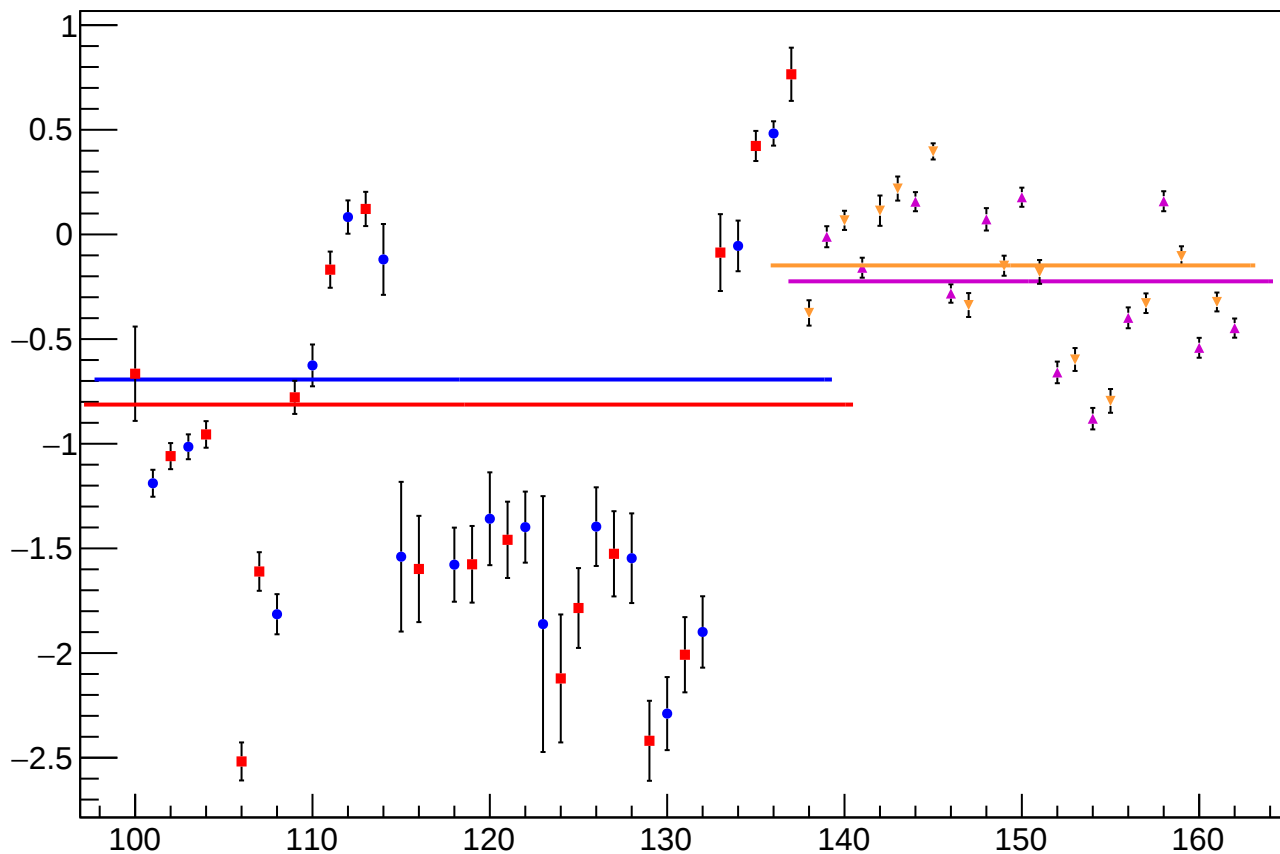
Right: 109.423 $\pm$ 0.344  $\chi^2$ /NDF: 13037.0/35

In: 117.155 $\pm$ 0.251  $\chi^2$ /NDF:7033.0/28

Out: 117.704 $\pm$ 0.253  $\chi^2$ /NDF:8727.2/31

All: 117.427 $\pm$ 0.178  $\chi^2$ /NDF: 15762.6/60

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.693 \pm 0.026$   $\chi^2/\text{NDF}$ : 993.1/16

Left Out:  $-0.148 \pm 0.014$   $\chi^2/\text{NDF}$ : 528.4/12

Right Out:  $-0.813 \pm 0.024$   $\chi^2/\text{NDF}$ : 1310.7/18

Left In:  $-0.224 \pm 0.014$   $\chi^2/\text{NDF}$ : 578.6/11

Left:  $-0.187 \pm 0.010$   $\chi^2/\text{NDF}$ : 1121.7/24

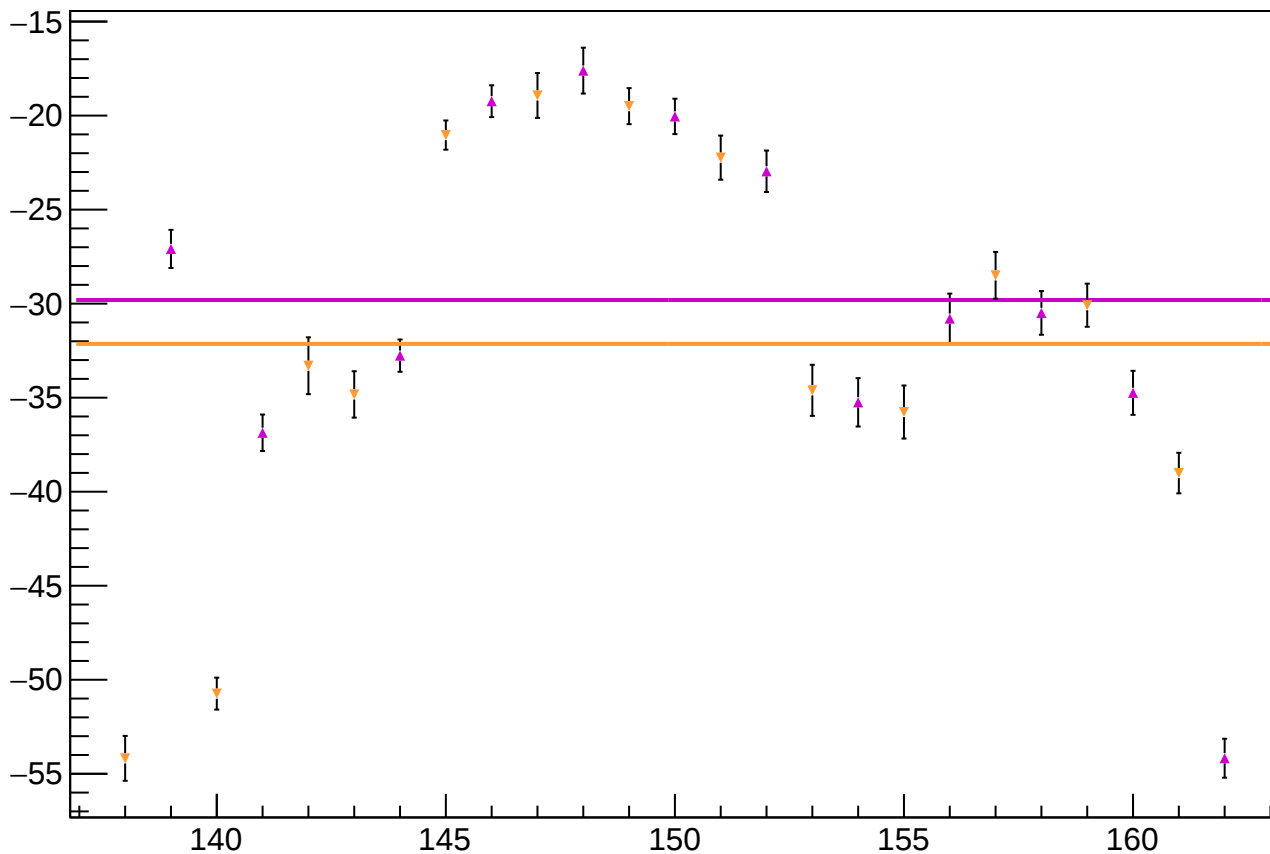
Right:  $-0.756 \pm 0.018$   $\chi^2/\text{NDF}$ : 2315.2/35

In:  $-0.330 \pm 0.012$   $\chi^2/\text{NDF}$ : 1828.2/28

Out:  $-0.316 \pm 0.012$   $\chi^2/\text{NDF}$ : 2397.2/31

All:  $-0.323 \pm 0.009$   $\chi^2/\text{NDF}$ : 4226.1/60

reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected

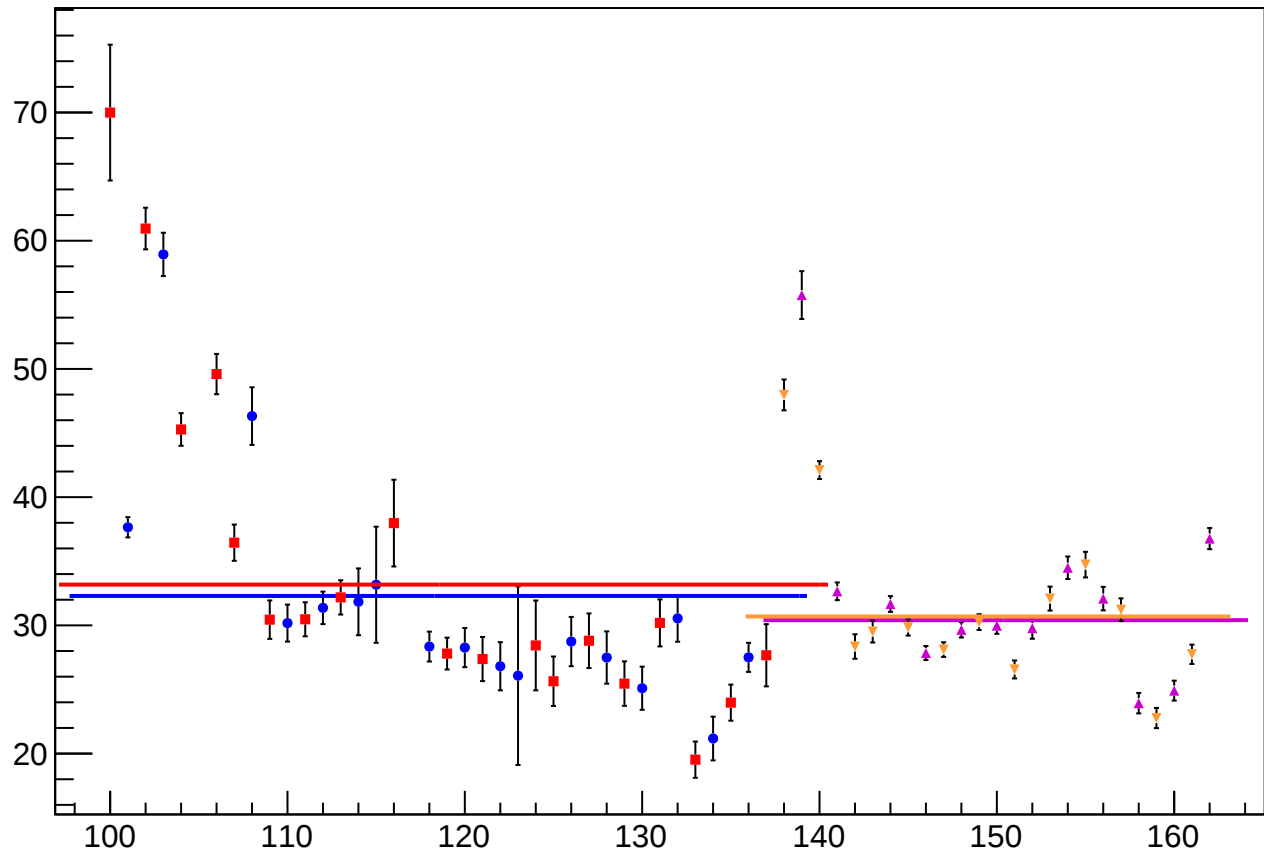


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.139+/-0.306  $\chi^2/\text{NDF}$ :1459.7/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -29.806+/-0.302  $\chi^2/\text{NDF}$ :1064.9/11

Left: -30.955+/-0.215  $\chi^2/\text{NDF}$ : 2554.0/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -29.806+/-0.302  $\chi^2/\text{NDF}$ :1064.9/11  
 Out: -32.139+/-0.306  $\chi^2/\text{NDF}$ :1459.7/12

All: -30.955+/-0.215  $\chi^2/\text{NDF}$ : 2554.0/24

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $32.295 \pm 0.373$   $\chi^2/\text{NDF}: 452.2/16$

Left Out:  $30.695 \pm 0.213$   $\chi^2/\text{NDF}: 675.0/12$

Right Out:  $33.180 \pm 0.379$   $\chi^2/\text{NDF}: 770.3/18$

Left In:  $30.408 \pm 0.212$   $\chi^2/\text{NDF}: 424.1/11$

Left:  $30.551 \pm 0.150$   $\chi^2/\text{NDF}: 1100.0/24$

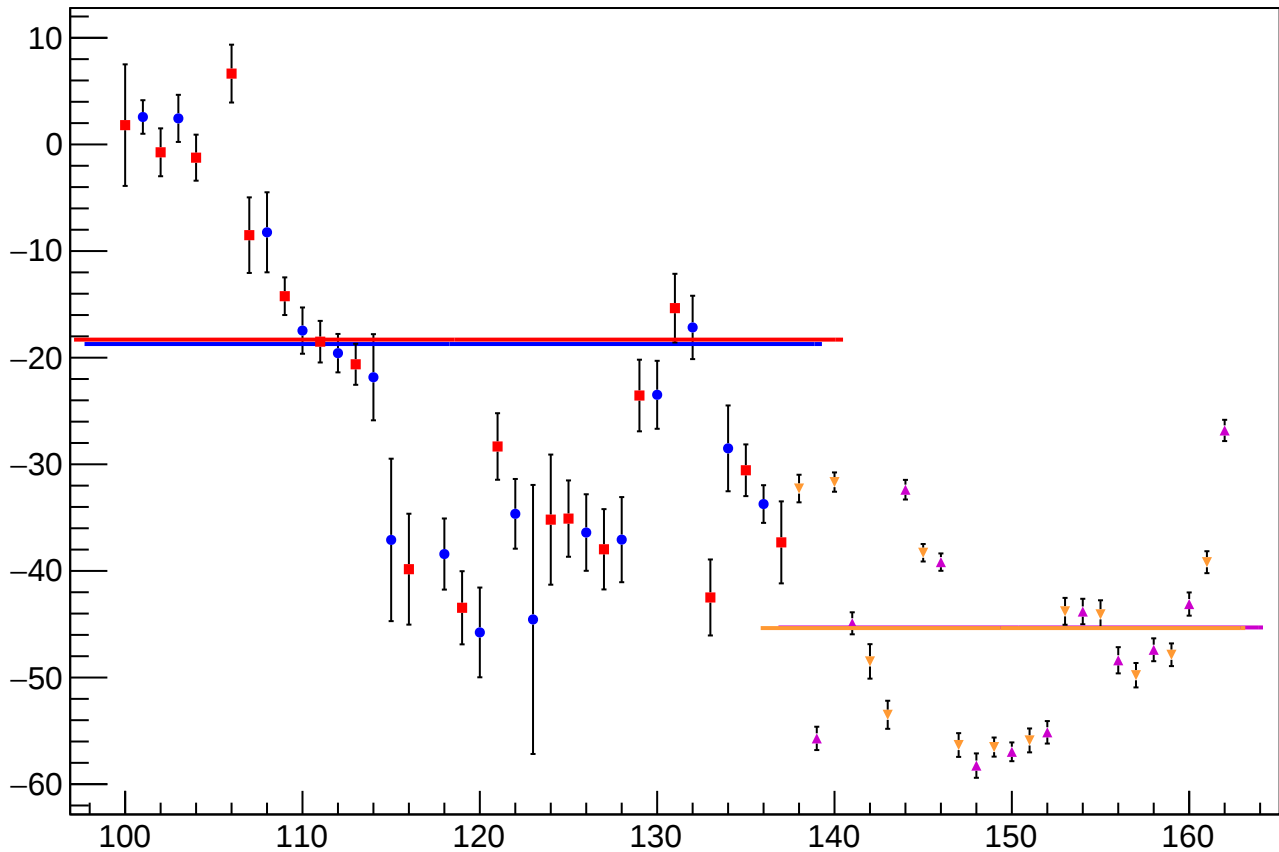
Right:  $32.730 \pm 0.266$   $\chi^2/\text{NDF}: 1225.3/35$

In:  $30.870 \pm 0.184$   $\chi^2/\text{NDF}: 895.7/28$

Out:  $31.290 \pm 0.185$   $\chi^2/\text{NDF}: 1477.9/31$

All:  $31.079 \pm 0.131$   $\chi^2/\text{NDF}: 2376.2/60$

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-18.721 \pm 0.665$   $\chi^2/\text{NDF}$ : 519.6/16

Left Out:  $-45.361 \pm 0.303$   $\chi^2/\text{NDF}$ : 846.7/12

Right Out:  $-18.306 \pm 0.644$   $\chi^2/\text{NDF}$ : 472.6/18

Left In:  $-45.303 \pm 0.295$   $\chi^2/\text{NDF}$ : 1094.5/11

Left:  $-45.331 \pm 0.211$   $\chi^2/\text{NDF}$ : 1941.3/24

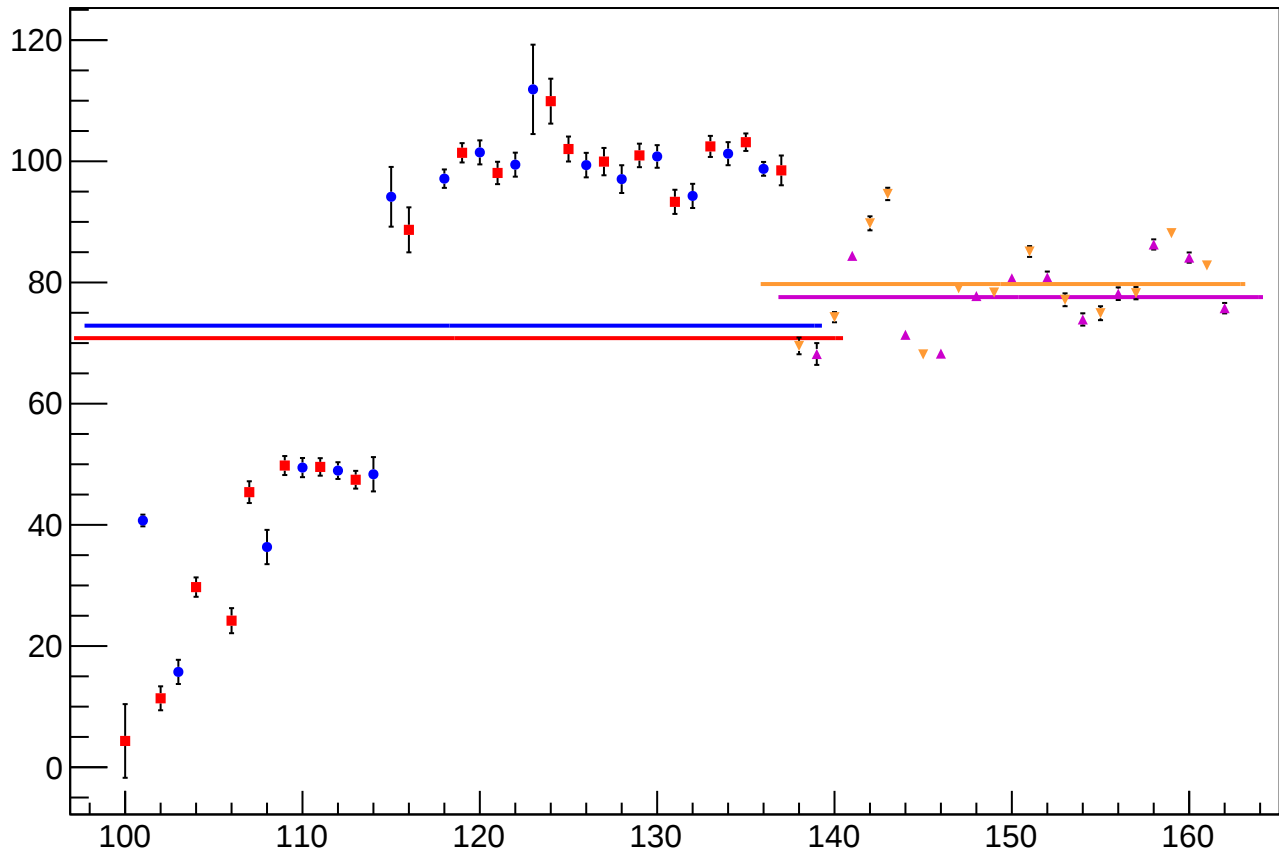
Right:  $-18.506 \pm 0.463$   $\chi^2/\text{NDF}$ : 992.4/35

In:  $-40.938 \pm 0.270$   $\chi^2/\text{NDF}$ : 2948.0/28

Out:  $-40.457 \pm 0.274$   $\chi^2/\text{NDF}$ : 2766.5/31

All:  $-40.702 \pm 0.192$   $\chi^2/\text{NDF}$ : 5716.1/60

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.875 $\pm$ 0.426  $\chi^2$ /NDF: 4737.9/16

Left Out: 79.743 $\pm$ 0.252  $\chi^2$ /NDF: 814.6/12

Right Out: 70.815 $\pm$ 0.433  $\chi^2$ /NDF: 5489.3/18

Left In: 77.588 $\pm$ 0.248  $\chi^2$ /NDF: 570.4/11

Left: 78.651 $\pm$ 0.177  $\chi^2$ /NDF: 1422.1/24

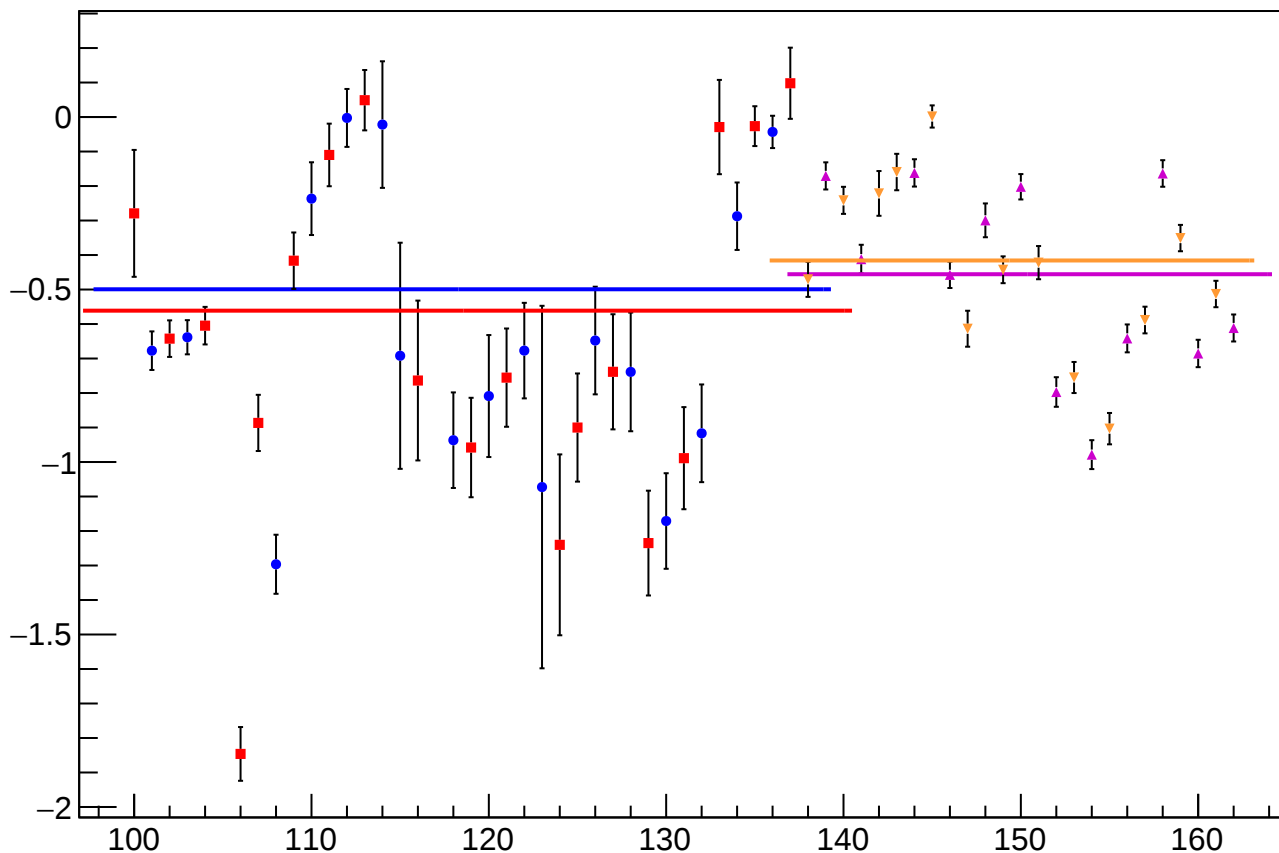
Right: 71.863 $\pm$ 0.304  $\chi^2$ /NDF: 10238.7/35

In: 76.391 $\pm$ 0.215  $\chi^2$ /NDF: 5399.7/28

Out: 77.489 $\pm$ 0.218  $\chi^2$ /NDF: 6621.3/31

All: 76.932 $\pm$ 0.153  $\chi^2$ /NDF: 12034.0/60

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.499 \pm 0.022$   $\chi^2/\text{NDF}$ : 303.5/16

Left Out:  $-0.416 \pm 0.012$   $\chi^2/\text{NDF}$ : 437.7/12

Right Out:  $-0.561 \pm 0.021$   $\chi^2/\text{NDF}$ : 562.3/18

Left In:  $-0.456 \pm 0.012$   $\chi^2/\text{NDF}$ : 513.3/11

Left:  $-0.436 \pm 0.008$   $\chi^2/\text{NDF}$ : 956.7/24

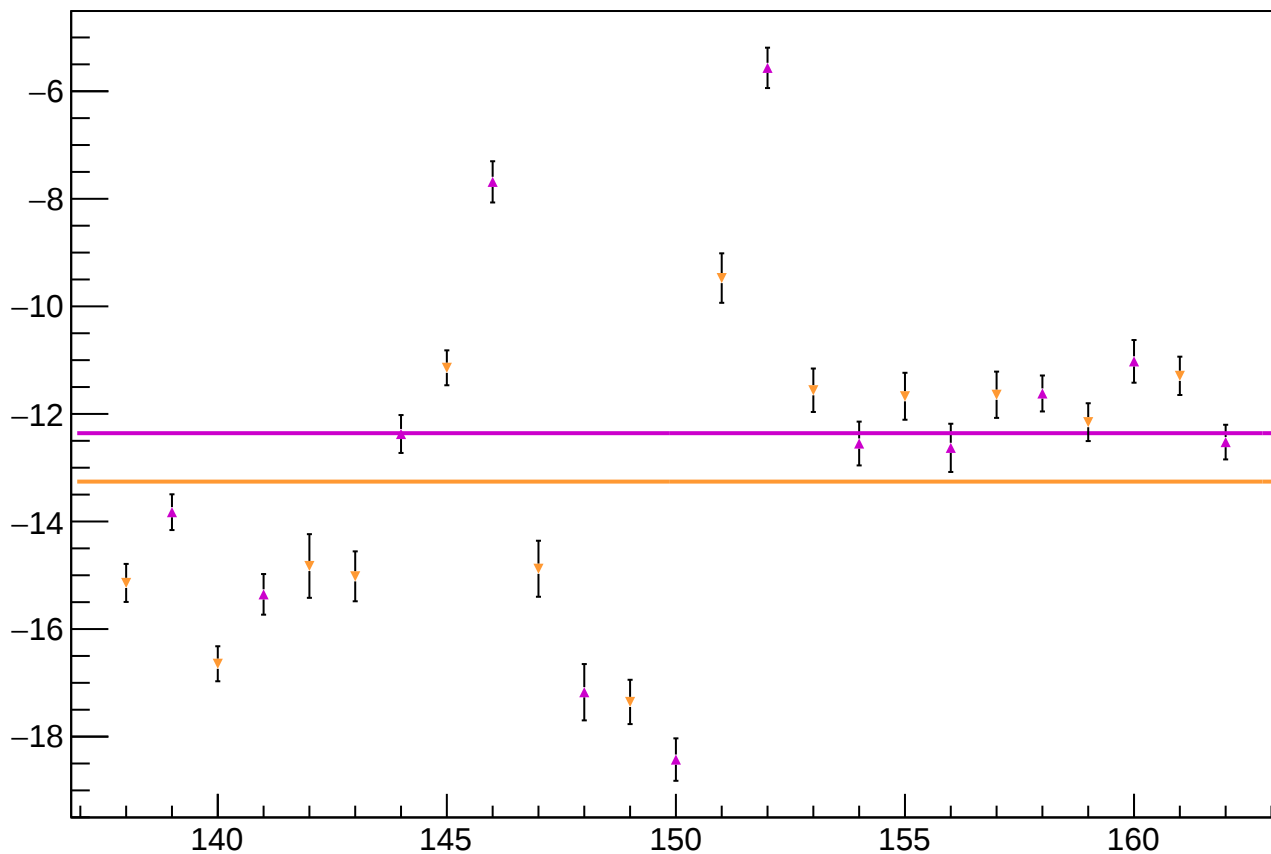
Right:  $-0.532 \pm 0.015$   $\chi^2/\text{NDF}$ : 869.9/35

In:  $-0.465 \pm 0.010$   $\chi^2/\text{NDF}$ : 819.8/28

Out:  $-0.450 \pm 0.010$   $\chi^2/\text{NDF}$ : 1035.3/31

All:  $-0.458 \pm 0.007$   $\chi^2/\text{NDF}$ : 1856.1/60

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -13.258+/-0.111  $\chi^2/\text{NDF}$ : 462.2/12

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

Left In: -12.358+/-0.109  $\chi^2/\text{NDF}$ : 896.6/11

Left: -12.801+/-0.078  $\chi^2/\text{NDF}$ : 1392.4/24

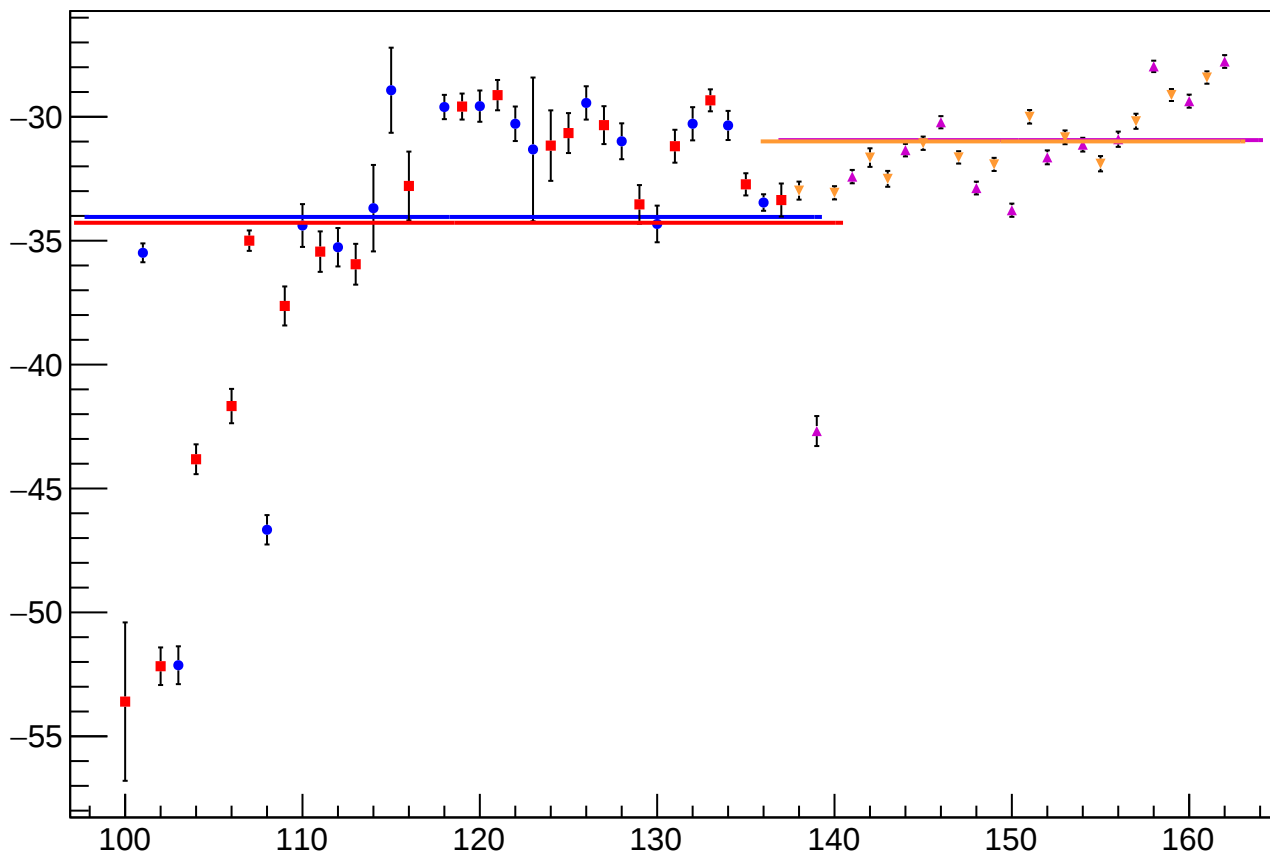
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.358+/-0.109  $\chi^2/\text{NDF}$ : 896.6/11

Out: -13.258+/-0.111  $\chi^2/\text{NDF}$ : 462.2/12

All: -12.801+/-0.078  $\chi^2/\text{NDF}$ : 1392.4/24

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-34.042 \pm 0.151$   $\chi^2/\text{NDF}$ : 1340.8/16

Left Out:  $-30.993 \pm 0.078$   $\chi^2/\text{NDF}$ : 329.3/12

Right Out:  $-34.277 \pm 0.151$   $\chi^2/\text{NDF}$ : 1349.5/18

Left In:  $-30.941 \pm 0.079$   $\chi^2/\text{NDF}$ : 944.9/11

Left:  $-30.967 \pm 0.056$   $\chi^2/\text{NDF}$ : 1274.4/24

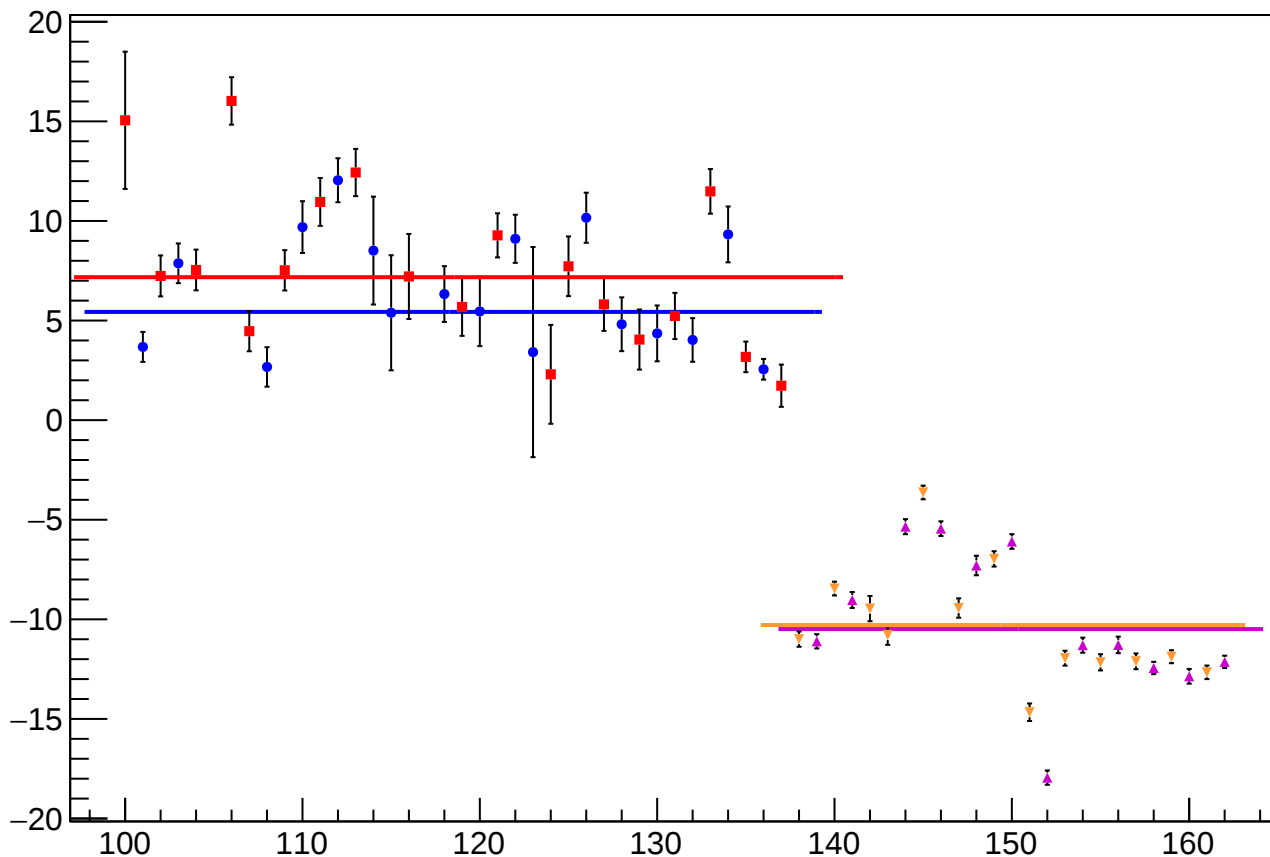
Right:  $-34.159 \pm 0.107$   $\chi^2/\text{NDF}$ : 2691.4/35

In:  $-31.605 \pm 0.070$   $\chi^2/\text{NDF}$ : 2618.4/28

Out:  $-31.691 \pm 0.070$   $\chi^2/\text{NDF}$ : 2052.0/31

All:  $-31.648 \pm 0.049$   $\chi^2/\text{NDF}$ : 4671.2/60

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 5.435 $\pm$ 0.270  $\chi^2$ /NDF: 132.0/16

Left Out: -10.284 $\pm$ 0.109  $\chi^2$ /NDF: 721.2/12

Right Out: 7.177 $\pm$ 0.274  $\chi^2$ /NDF: 182.6/18

Left In: -10.489 $\pm$ 0.106  $\chi^2$ /NDF: 1122.7/11

Left: -10.390 $\pm$ 0.076  $\chi^2$ /NDF: 1845.7/24

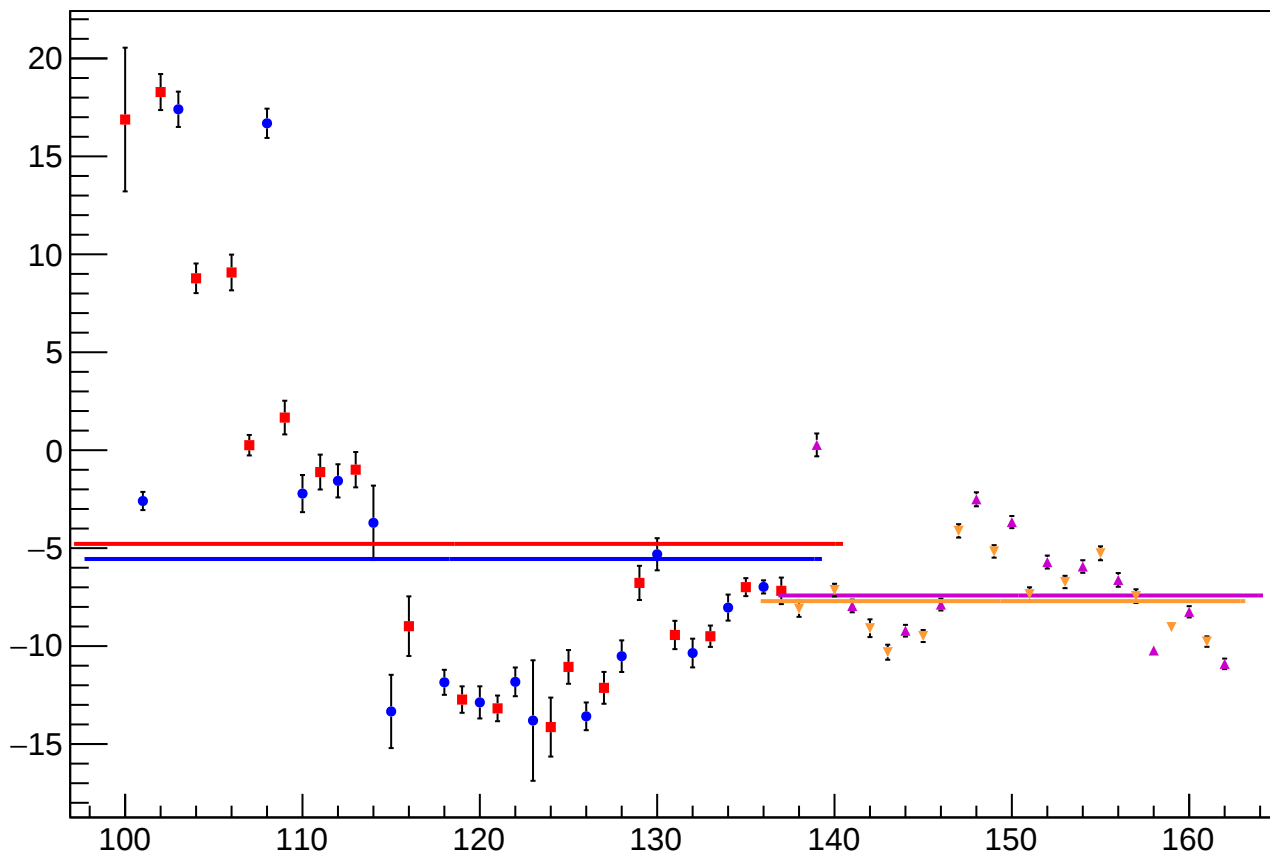
Right: 6.291 $\pm$ 0.192  $\chi^2$ /NDF: 335.1/35

In: -8.348 $\pm$ 0.099  $\chi^2$ /NDF: 4275.2/28

Out: -7.894 $\pm$ 0.101  $\chi^2$ /NDF: 4404.7/31

All: -8.127 $\pm$ 0.071  $\chi^2$ /NDF: 8690.2/60

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-5.553 \pm 0.170$   $\chi^2/\text{NDF}: 2125.3/16$

Left Out:  $-7.704 \pm 0.091$   $\chi^2/\text{NDF}: 411.1/12$

Right Out:  $-4.782 \pm 0.173$   $\chi^2/\text{NDF}: 2040.4/18$

Left In:  $-7.417 \pm 0.090$   $\chi^2/\text{NDF}: 913.5/11$

Left:  $-7.559 \pm 0.064$   $\chi^2/\text{NDF}: 1329.6/24$

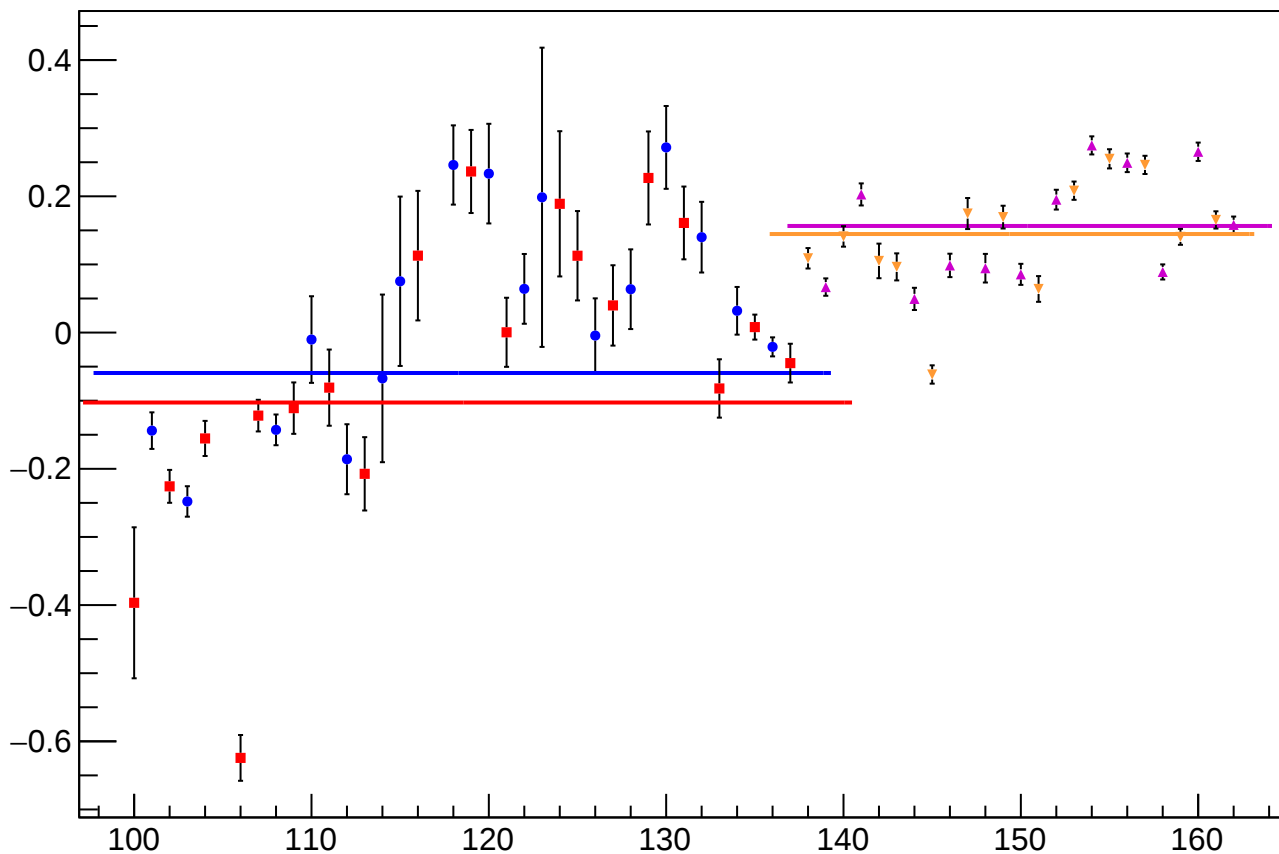
Right:  $-5.174 \pm 0.121$   $\chi^2/\text{NDF}: 4175.8/35$

In:  $-7.006 \pm 0.080$   $\chi^2/\text{NDF}: 3132.6/28$

Out:  $-7.065 \pm 0.081$   $\chi^2/\text{NDF}: 2674.9/31$

All:  $-7.035 \pm 0.057$   $\chi^2/\text{NDF}: 5807.8/60$

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.059 \pm 0.008$   $\chi^2/\text{NDF}$ : 217.6/16

Left Out:  $0.145 \pm 0.004$   $\chi^2/\text{NDF}$ : 415.7/12

Right Out:  $-0.103 \pm 0.008$   $\chi^2/\text{NDF}$ : 435.5/18

Left In:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 376.9/11

Left:  $0.151 \pm 0.003$   $\chi^2/\text{NDF}$ : 796.8/24

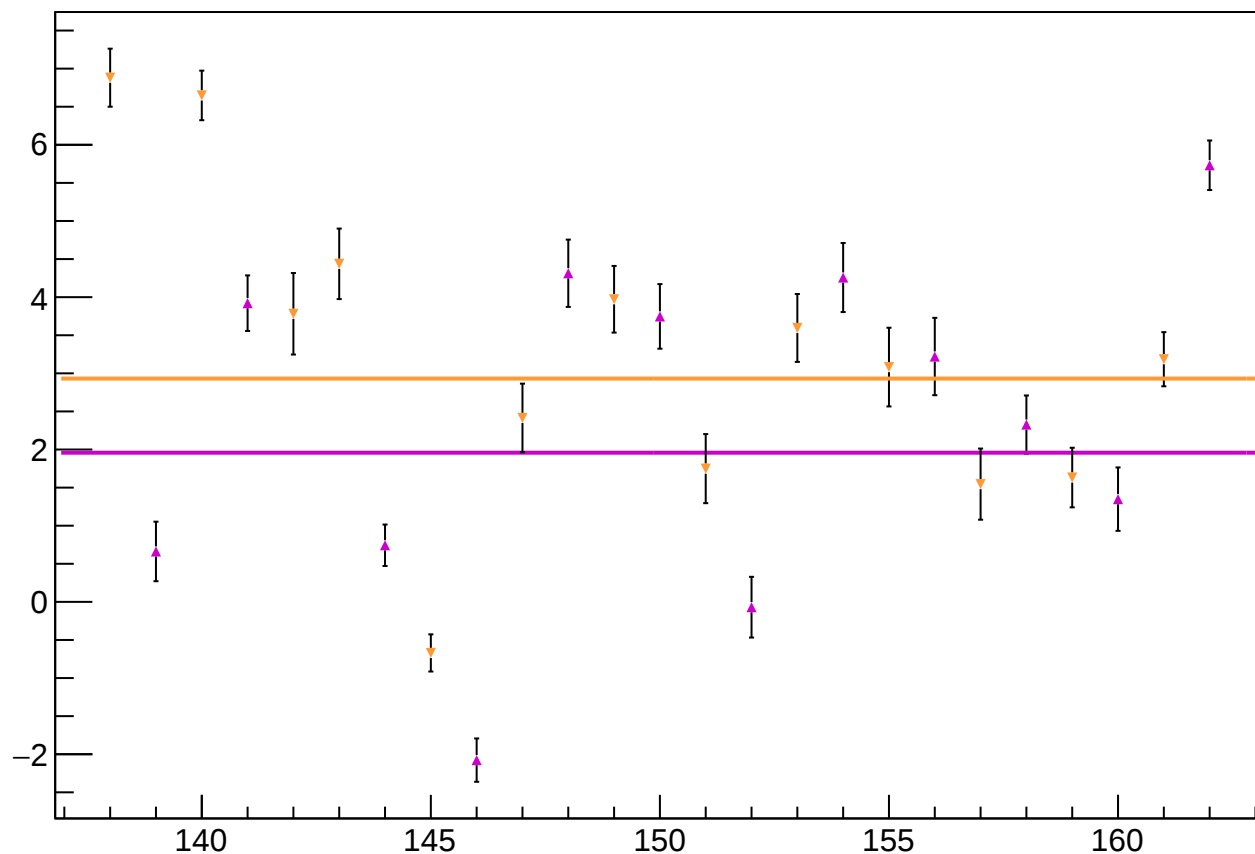
Right:  $-0.081 \pm 0.006$   $\chi^2/\text{NDF}$ : 666.4/35

In:  $0.115 \pm 0.004$   $\chi^2/\text{NDF}$ : 1129.0/28

Out:  $0.095 \pm 0.004$   $\chi^2/\text{NDF}$ : 1541.9/31

All:  $0.105 \pm 0.003$   $\chi^2/\text{NDF}$ : 2684.9/60

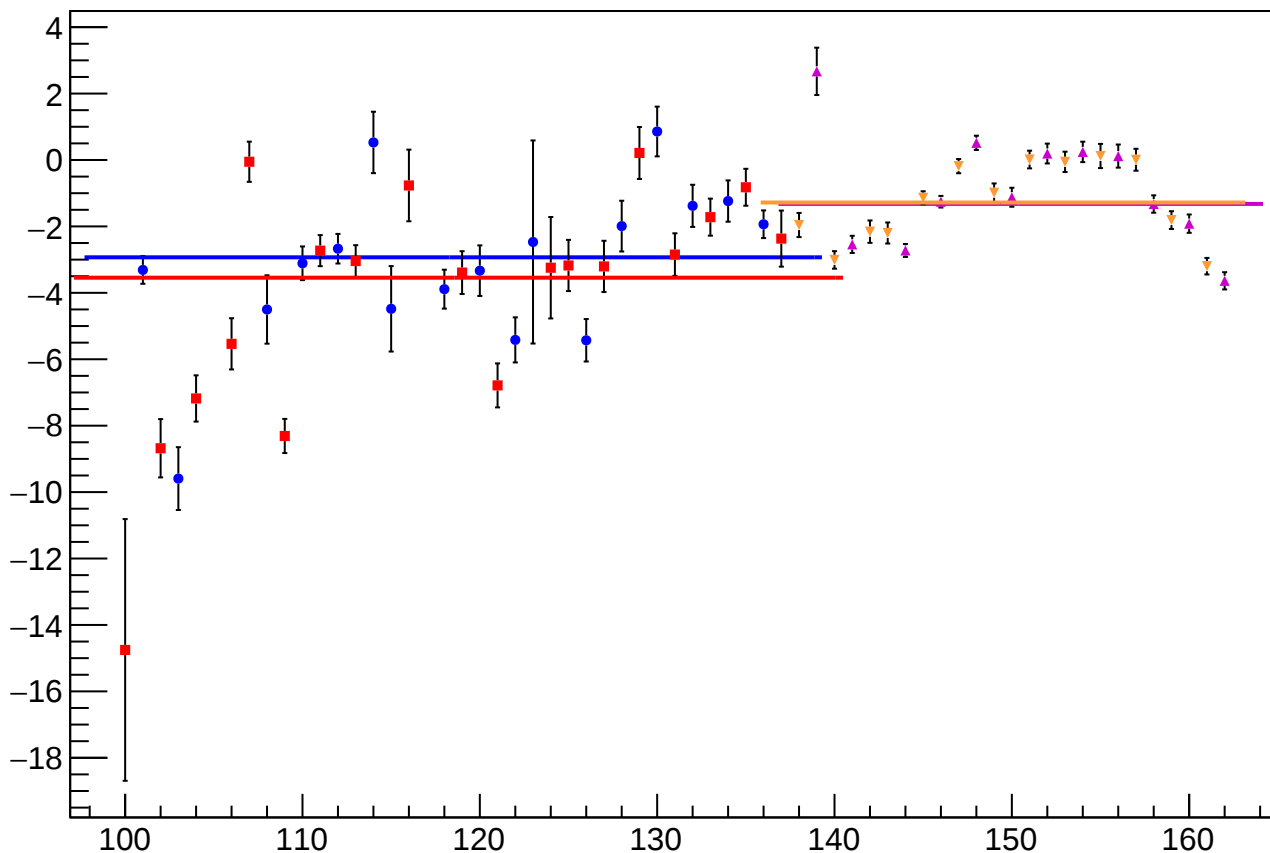
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.931 $\pm$ 0.109  $\chi^2$ /NDF:505.7/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.958 $\pm$ 0.107  $\chi^2$ /NDF:502.8/11

Left: 2.435 $\pm$ 0.076  $\chi^2$ /NDF: 1049.1/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 1.958 $\pm$ 0.107  $\chi^2$ /NDF:502.8/11  
 Out: 2.931 $\pm$ 0.109  $\chi^2$ /NDF:505.7/12  
 All: 2.435 $\pm$ 0.076  $\chi^2$ /NDF: 1049.1/24

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.930 \pm 0.154$   $\chi^2/\text{NDF}$ : 146.5/16

Left Out:  $-1.280 \pm 0.076$   $\chi^2/\text{NDF}$ : 222.3/12

Right Out:  $-3.544 \pm 0.155$   $\chi^2/\text{NDF}$ : 291.7/18

Left In:  $-1.322 \pm 0.074$   $\chi^2/\text{NDF}$ : 332.3/11

Left:  $-1.302 \pm 0.053$   $\chi^2/\text{NDF}$ : 554.8/24

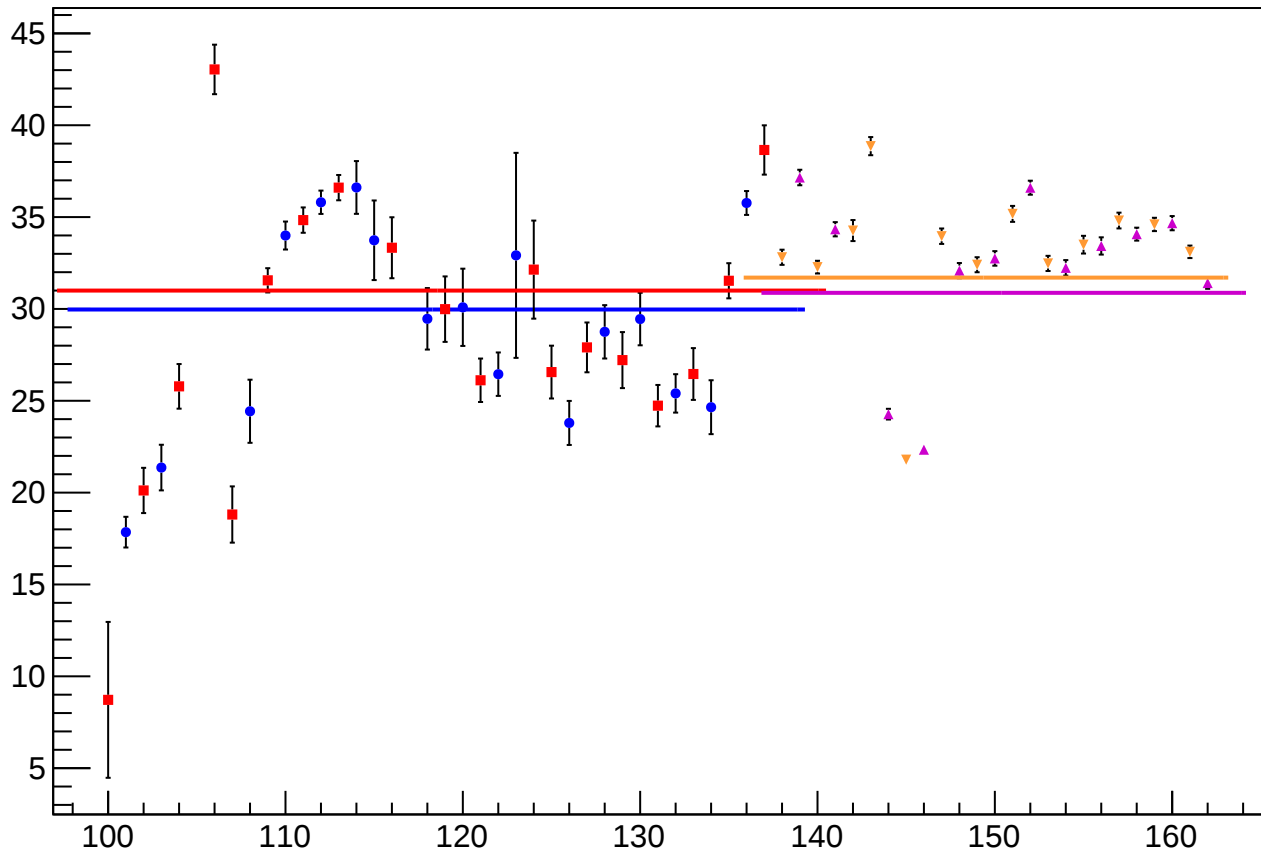
Right:  $-3.236 \pm 0.109$   $\chi^2/\text{NDF}$ : 446.1/35

In:  $-1.624 \pm 0.067$   $\chi^2/\text{NDF}$ : 567.5/28

Out:  $-1.721 \pm 0.068$   $\chi^2/\text{NDF}$ : 686.6/31

All:  $-1.671 \pm 0.048$   $\chi^2/\text{NDF}$ : 1255.1/60

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $29.969 \pm 0.267$   $\chi^2/\text{NDF}$ : 554.3/16

Left Out:  $31.705 \pm 0.109$   $\chi^2/\text{NDF}$ : 1942.2/12

Right Out:  $31.000 \pm 0.260$   $\chi^2/\text{NDF}$ : 479.5/18

Left In:  $30.876 \pm 0.105$   $\chi^2/\text{NDF}$ : 2268.6/11

Left:  $31.275 \pm 0.075$   $\chi^2/\text{NDF}$ : 4241.1/24

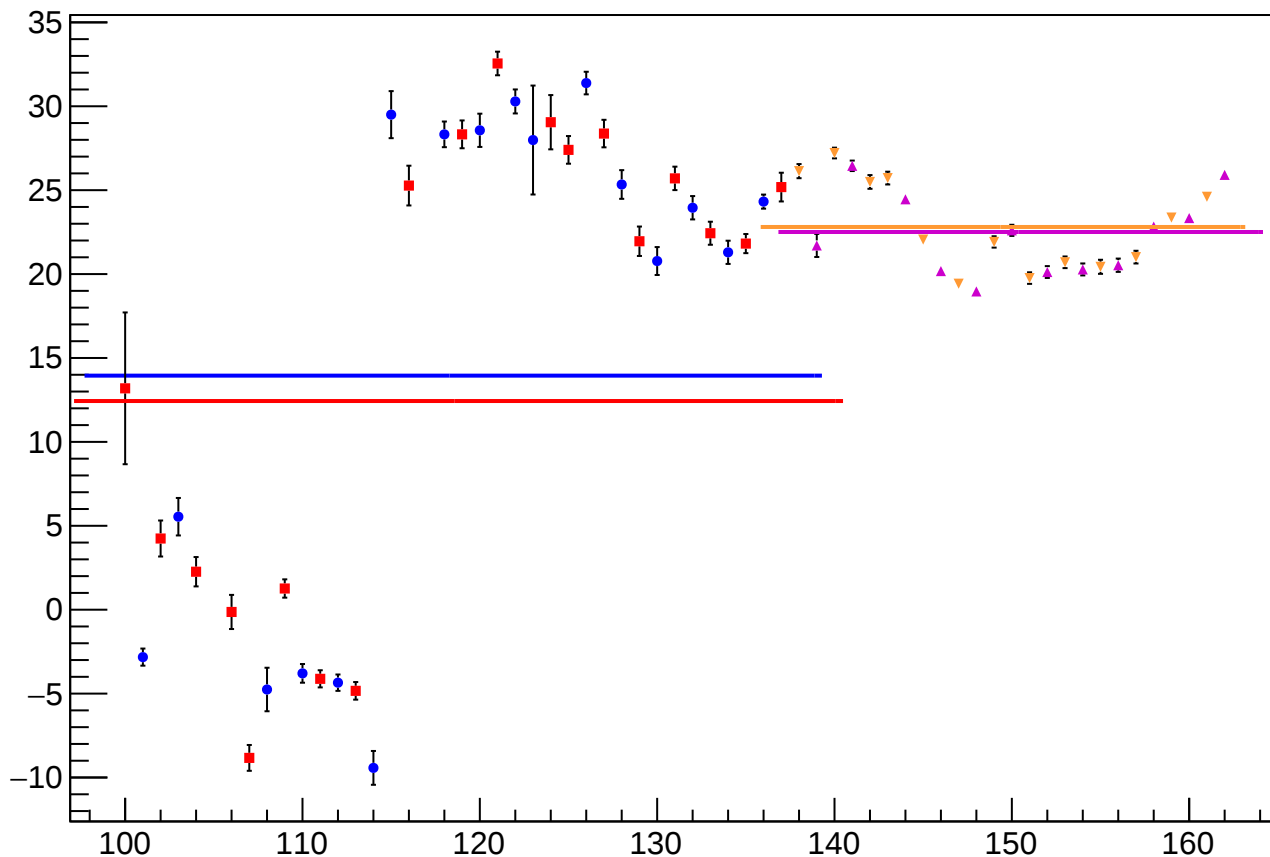
Right:  $30.497 \pm 0.186$   $\chi^2/\text{NDF}$ : 1041.5/35

In:  $30.755 \pm 0.097$   $\chi^2/\text{NDF}$ : 2833.0/28

Out:  $31.600 \pm 0.100$   $\chi^2/\text{NDF}$ : 2428.0/31

All:  $31.166 \pm 0.070$   $\chi^2/\text{NDF}$ : 5297.6/60

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.948 $\pm$ 0.172  $\chi^2$ /NDF: 7391.9/16

Left Out: 22.807 $\pm$ 0.090  $\chi^2$ /NDF: 722.6/12

Right Out: 12.435 $\pm$ 0.174  $\chi^2$ /NDF: 6962.9/18

Left In: 22.508 $\pm$ 0.087  $\chi^2$ /NDF: 761.6/11

Left: 22.652 $\pm$ 0.062  $\chi^2$ /NDF: 1489.9/24

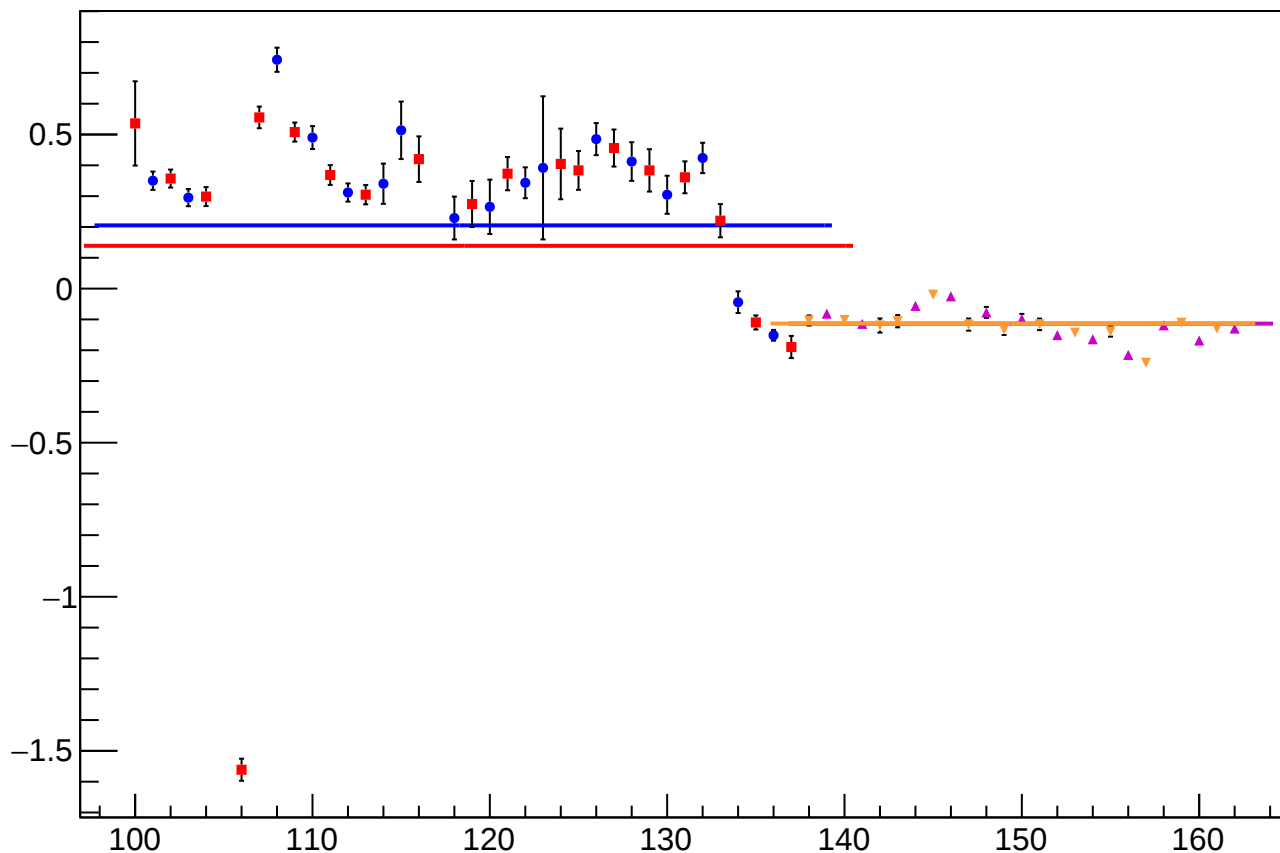
Right: 13.199 $\pm$ 0.122  $\chi^2$ /NDF: 14393.1/35

In: 20.764 $\pm$ 0.078  $\chi^2$ /NDF: 10126.6/28

Out: 20.620 $\pm$ 0.080  $\chi^2$ /NDF: 10500.0/31

All: 20.694 $\pm$ 0.056  $\chi^2$ /NDF: 20628.3/60

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.009$   $\chi^2/\text{NDF}: 846.2/16$

Left Out:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}: 172.2/12$

Right Out:  $0.139 \pm 0.009$   $\chi^2/\text{NDF}: 3016.8/18$

Left In:  $-0.114 \pm 0.004$   $\chi^2/\text{NDF}: 156.9/11$

Left:  $-0.113 \pm 0.003$   $\chi^2/\text{NDF}: 329.1/24$

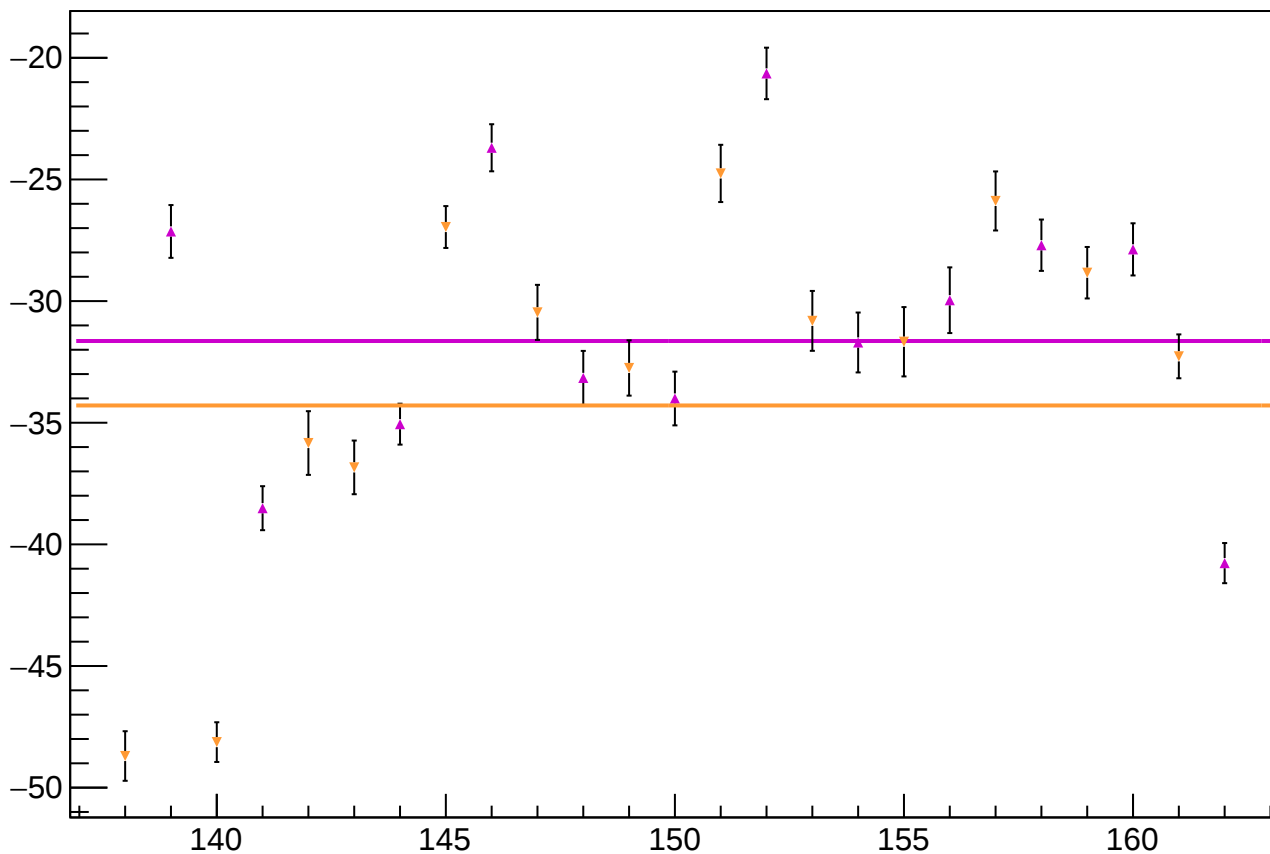
Right:  $0.171 \pm 0.007$   $\chi^2/\text{NDF}: 3888.5/35$

In:  $-0.062 \pm 0.004$   $\chi^2/\text{NDF}: 1973.8/28$

Out:  $-0.069 \pm 0.004$   $\chi^2/\text{NDF}: 3809.8/31$

All:  $-0.065 \pm 0.003$   $\chi^2/\text{NDF}: 5785.6/60$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



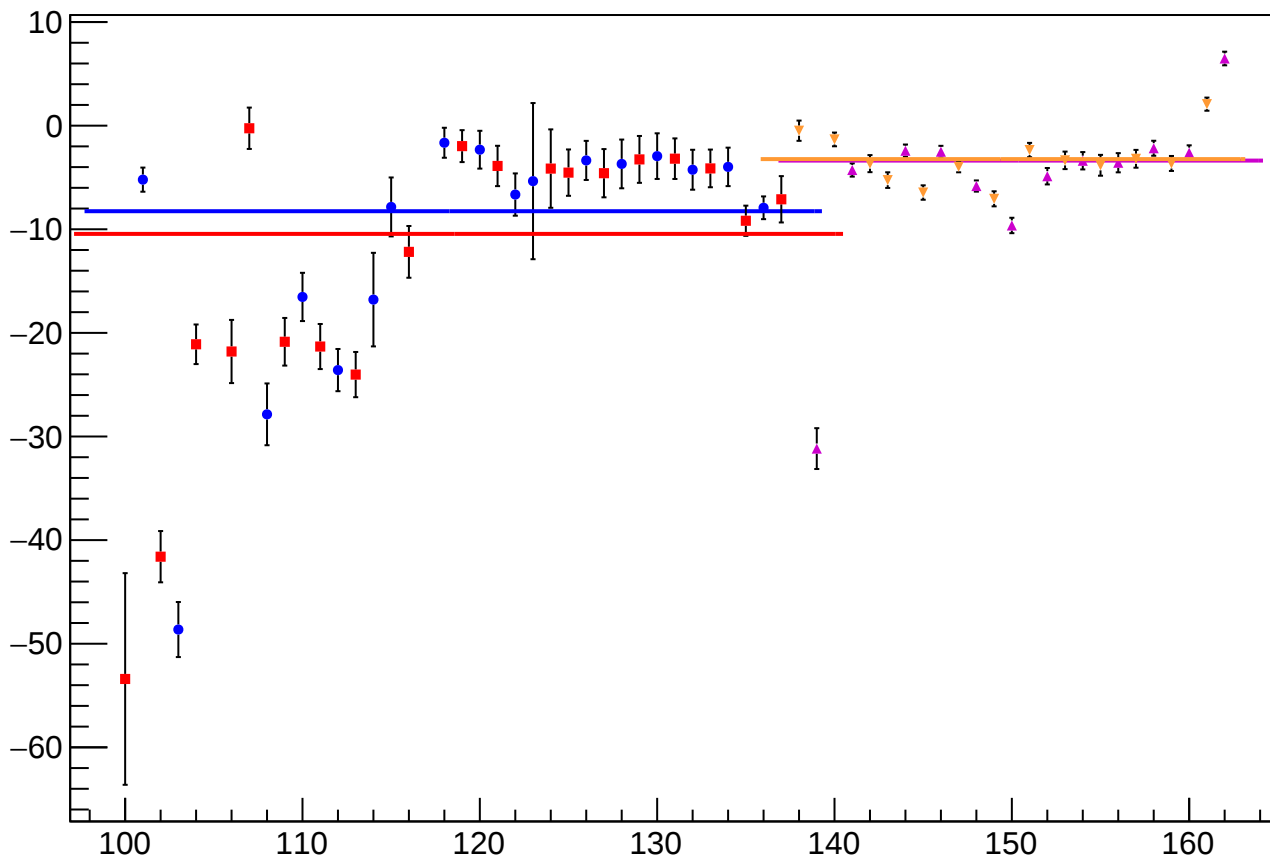
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.290+/-0.296  $\chi^2/\text{NDF}$ : 736.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -31.640+/-0.295  $\chi^2/\text{NDF}$ : 423.5/11

Left: -32.961+/-0.209  $\chi^2/\text{NDF}$ : 1200.2/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.640+/-0.295  $\chi^2/\text{NDF}$ : 423.5/11  
 Out: -34.290+/-0.296  $\chi^2/\text{NDF}$ : 736.4/12

All: -32.961+/-0.209  $\chi^2/\text{NDF}$ : 1200.2/24

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-8.257 \pm 0.462$   $\chi^2/\text{NDF}$ : 412.1/16

Left Out:  $-3.228 \pm 0.203$   $\chi^2/\text{NDF}$ : 147.1/12

Right Out:  $-10.446 \pm 0.491$   $\chi^2/\text{NDF}$ : 428.4/18

Left In:  $-3.371 \pm 0.203$   $\chi^2/\text{NDF}$ : 528.5/11

Left:  $-3.299 \pm 0.144$   $\chi^2/\text{NDF}$ : 675.8/24

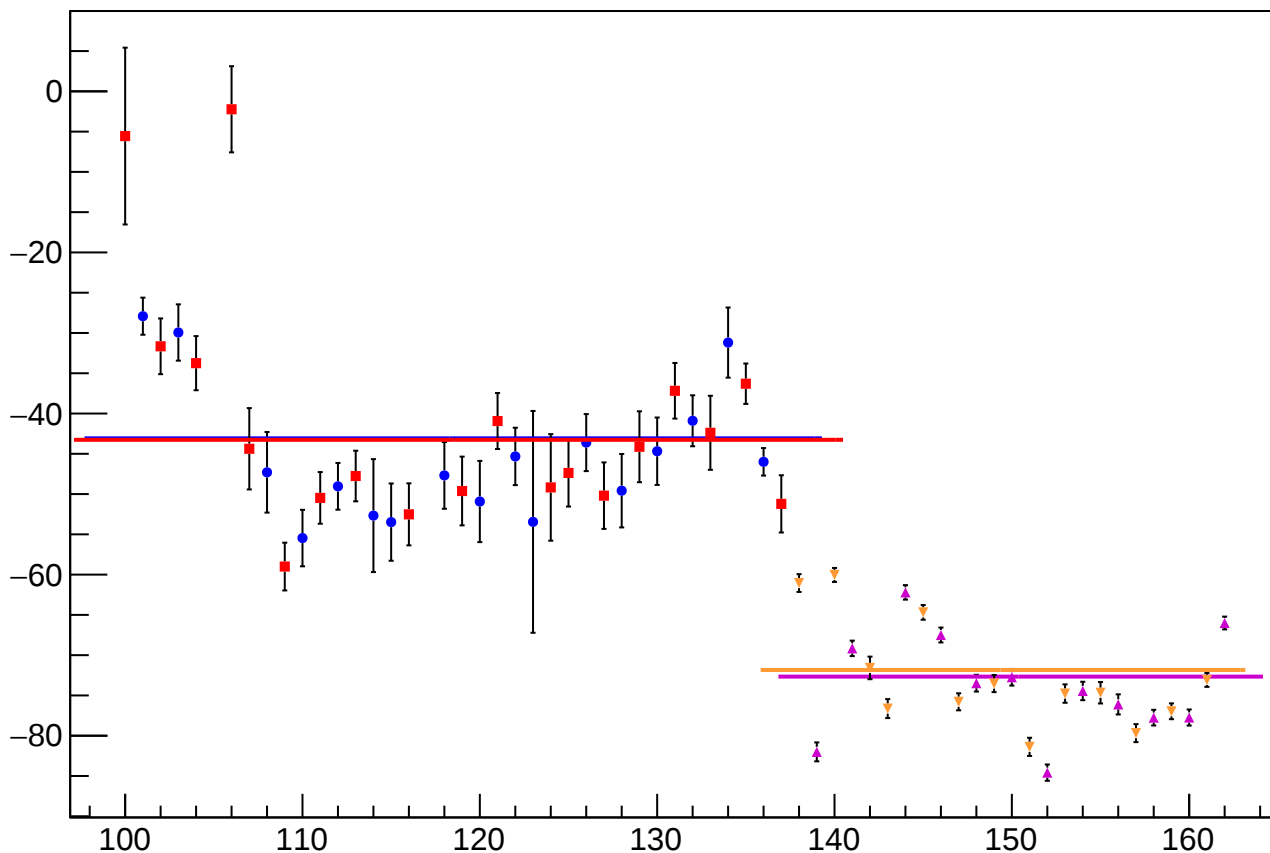
Right:  $-9.285 \pm 0.337$   $\chi^2/\text{NDF}$ : 851.1/35

In:  $-4.163 \pm 0.186$   $\chi^2/\text{NDF}$ : 1034.3/28

Out:  $-4.282 \pm 0.188$   $\chi^2/\text{NDF}$ : 759.9/31

All:  $-4.222 \pm 0.132$   $\chi^2/\text{NDF}$ : 1794.4/60

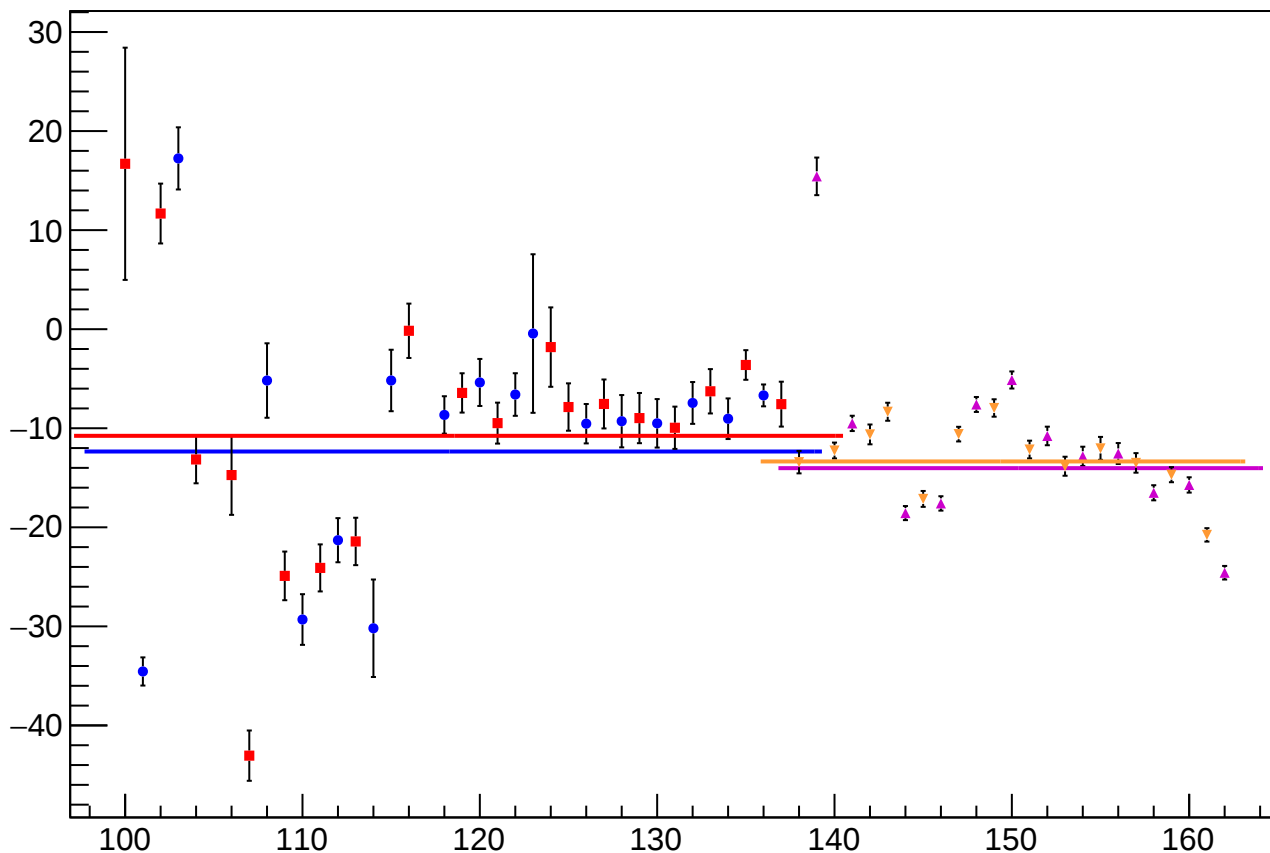
reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-43.082 \pm 0.834$   $\chi^2/\text{NDF}$ : 99.2/16  
 Left Out:  $-71.836 \pm 0.293$   $\chi^2/\text{NDF}$ : 535.4/12  
 Right Out:  $-43.262 \pm 0.866$   $\chi^2/\text{NDF}$ : 154.2/18  
 Left In:  $-72.664 \pm 0.288$   $\chi^2/\text{NDF}$ : 515.1/11

Left:  $-72.258 \pm 0.205$   $\chi^2/\text{NDF}$ : 1054.5/24  
 Right:  $-43.169 \pm 0.601$   $\chi^2/\text{NDF}$ : 253.4/35  
 In:  $-69.521 \pm 0.272$   $\chi^2/\text{NDF}$ : 1738.1/28  
 Out:  $-68.904 \pm 0.278$   $\chi^2/\text{NDF}$ : 1665.6/31  
 All:  $-69.219 \pm 0.194$   $\chi^2/\text{NDF}$ : 3406.1/60

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.348 \pm 0.520$   $\chi^2/\text{NDF}$ : 475.9/16

Left Out:  $-13.351 \pm 0.241$   $\chi^2/\text{NDF}$ : 239.6/12

Right Out:  $-10.765 \pm 0.554$   $\chi^2/\text{NDF}$ : 366.6/18

Left In:  $-14.029 \pm 0.239$   $\chi^2/\text{NDF}$ : 786.0/11

Left:  $-13.693 \pm 0.170$   $\chi^2/\text{NDF}$ : 1029.6/24

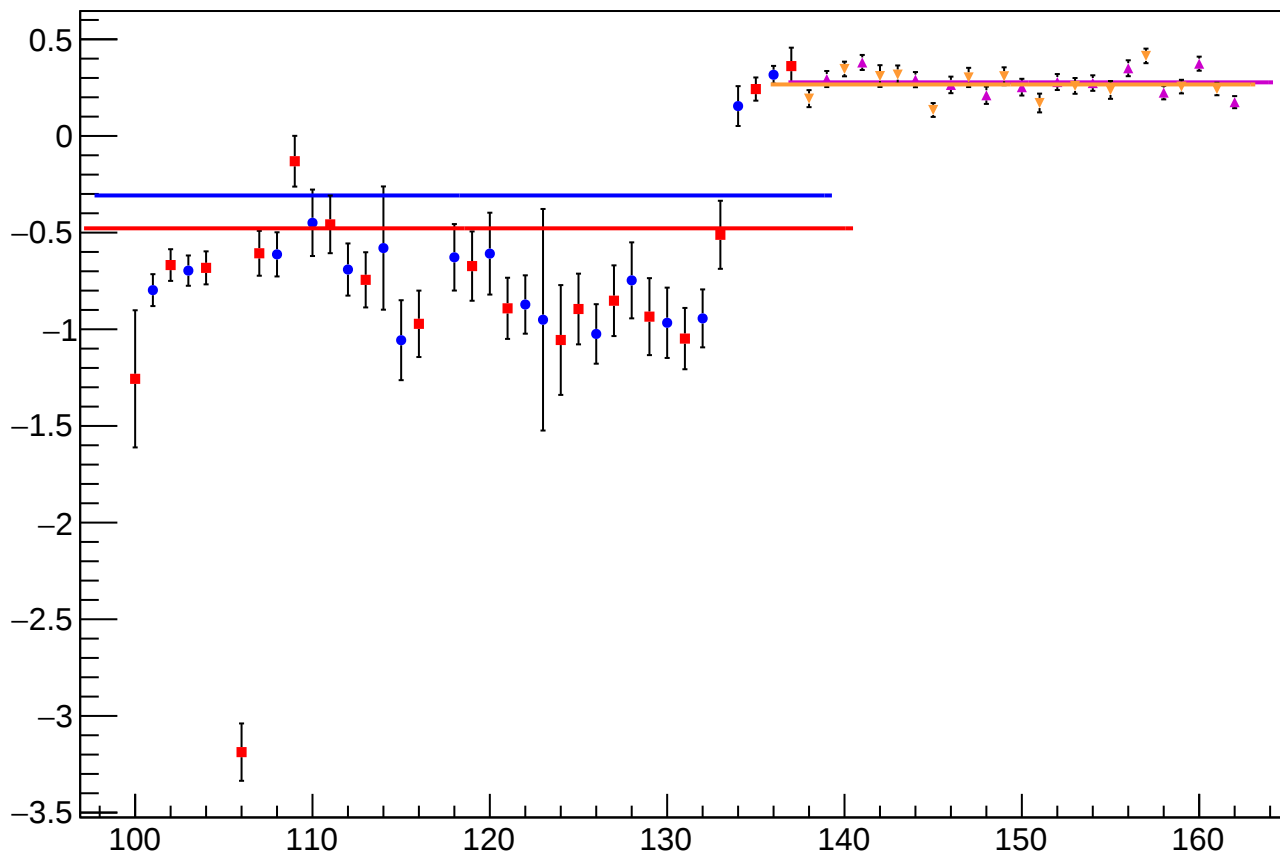
Right:  $-11.606 \pm 0.379$   $\chi^2/\text{NDF}$ : 846.9/35

In:  $-13.736 \pm 0.217$   $\chi^2/\text{NDF}$ : 1270.5/28

Out:  $-12.939 \pm 0.221$   $\chi^2/\text{NDF}$ : 624.6/31

All:  $-13.344 \pm 0.155$   $\chi^2/\text{NDF}$ : 1901.7/60

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.308 \pm 0.028$   $\chi^2/\text{NDF}$ : 372.4/16

Left Out:  $0.266 \pm 0.011$   $\chi^2/\text{NDF}$ : 44.2/12

Right Out:  $-0.478 \pm 0.029$   $\chi^2/\text{NDF}$ : 631.2/18

Left In:  $0.277 \pm 0.011$   $\chi^2/\text{NDF}$ : 33.2/11

Left:  $0.272 \pm 0.008$   $\chi^2/\text{NDF}$ : 77.9/24

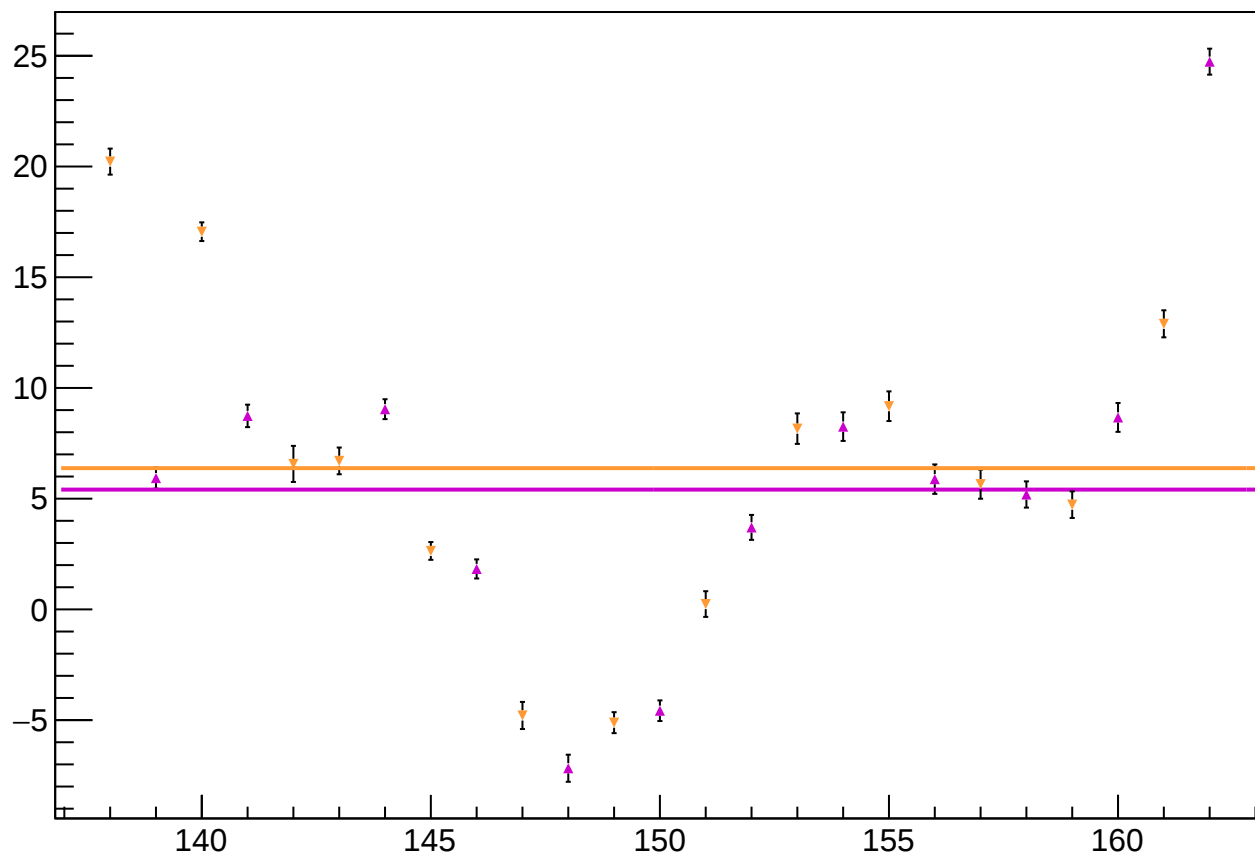
Right:  $-0.390 \pm 0.020$   $\chi^2/\text{NDF}$ : 1022.0/35

In:  $0.193 \pm 0.010$   $\chi^2/\text{NDF}$ : 792.8/28

Out:  $0.163 \pm 0.011$   $\chi^2/\text{NDF}$ : 1261.1/31

All:  $0.178 \pm 0.007$   $\chi^2/\text{NDF}$ : 2058.0/60

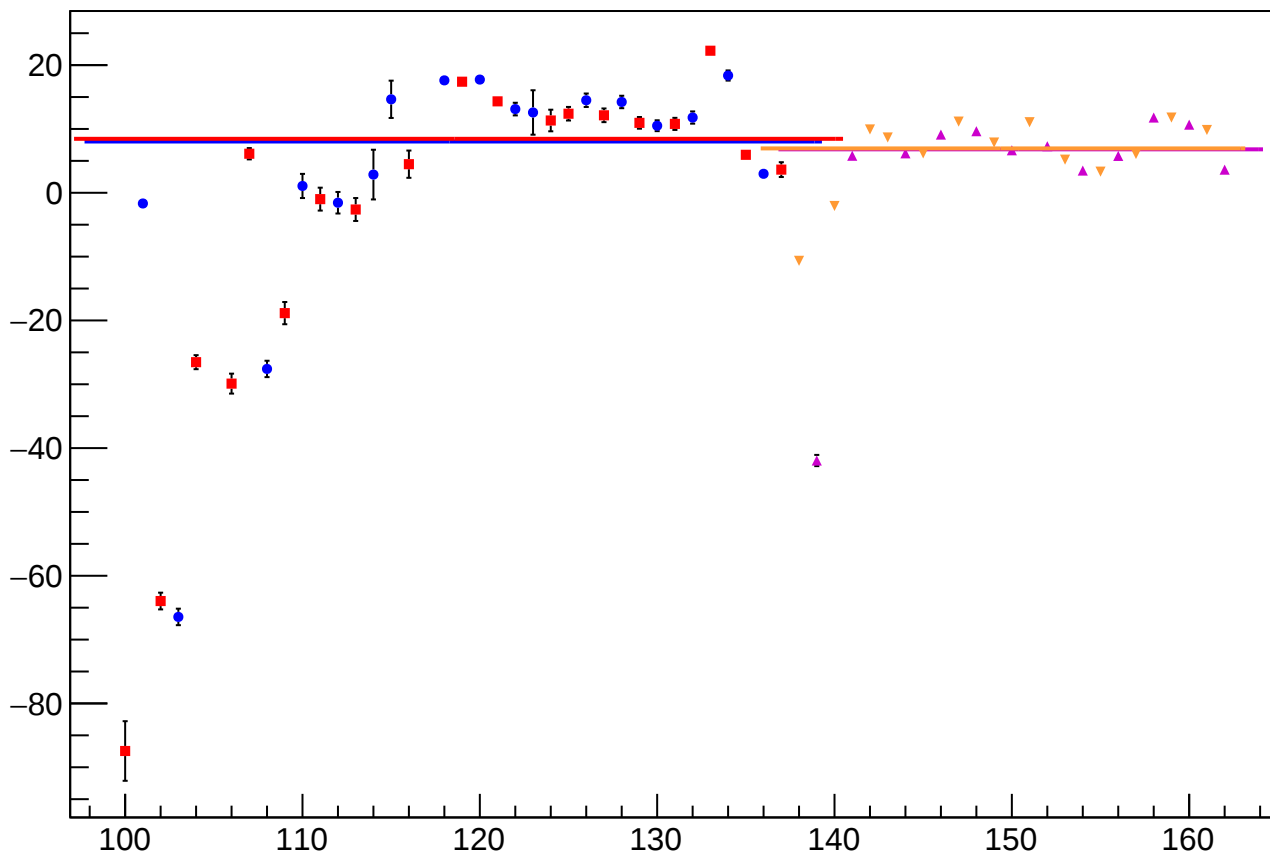
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 6.379+/-0.156  $\chi^2$ /NDF:2461.9/12  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 5.410+/-0.155  $\chi^2$ /NDF:2199.7/11

Left: 5.891+/-0.110  $\chi^2$ /NDF: 4681.1/24  
 Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 In: 5.410+/-0.155  $\chi^2$ /NDF:2199.7/11  
 Out: 6.379+/-0.156  $\chi^2$ /NDF:2461.9/12  
 All: 5.891+/-0.110  $\chi^2$ /NDF: 4681.1/24

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 8.036 $\pm$ 0.215  $\chi^2$ /NDF: 5369.4/16

Left Out: 6.951 $\pm$ 0.108  $\chi^2$ /NDF: 2207.7/12

Right Out: 8.454 $\pm$ 0.213  $\chi^2$ /NDF: 6704.4/18

Left In: 6.806 $\pm$ 0.109  $\chi^2$ /NDF: 3579.8/11

Left: 6.879 $\pm$ 0.077  $\chi^2$ /NDF: 5788.4/24

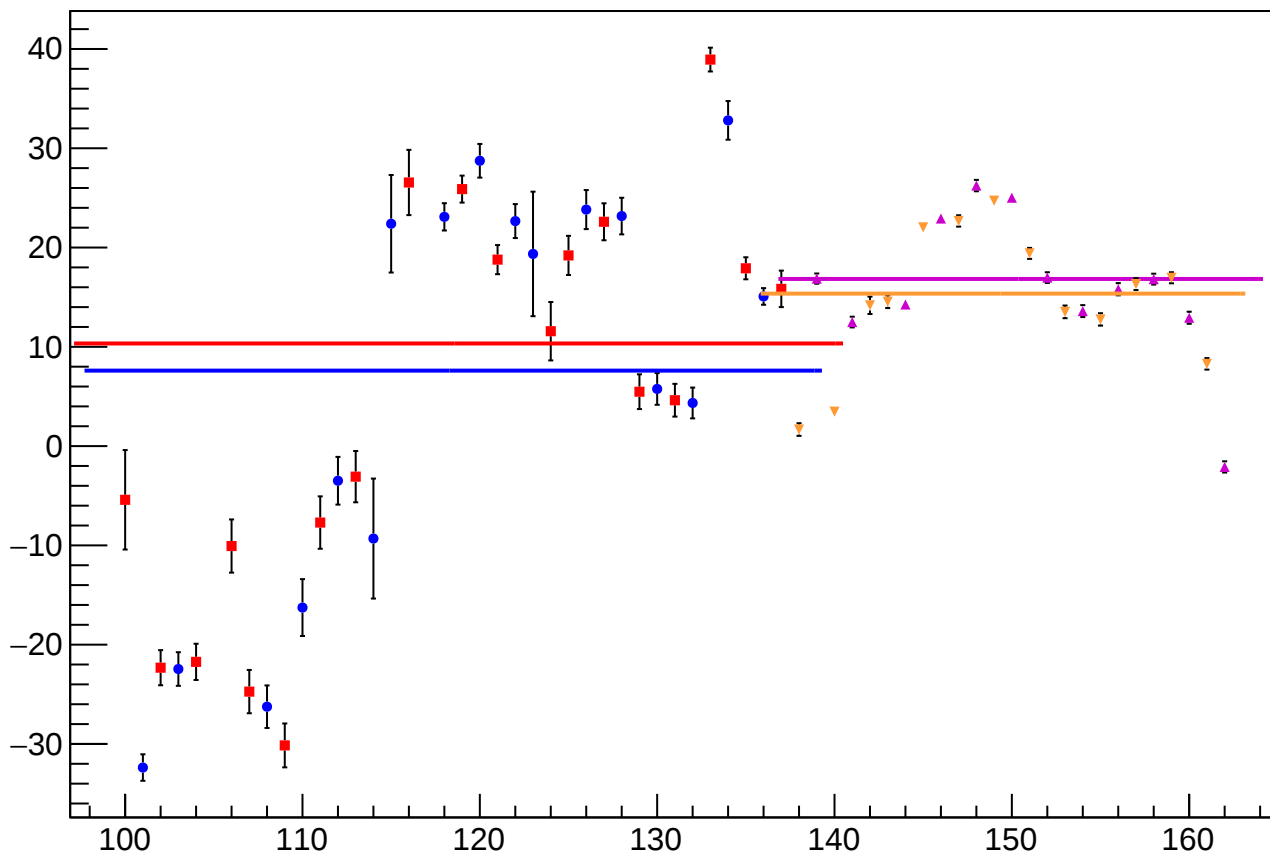
Right: 8.247 $\pm$ 0.151  $\chi^2$ /NDF: 12075.7/35

In: 7.058 $\pm$ 0.097  $\chi^2$ /NDF: 8975.2/28

Out: 7.259 $\pm$ 0.097  $\chi^2$ /NDF: 8951.6/31

All: 7.159 $\pm$ 0.069  $\chi^2$ /NDF: 17928.9/60

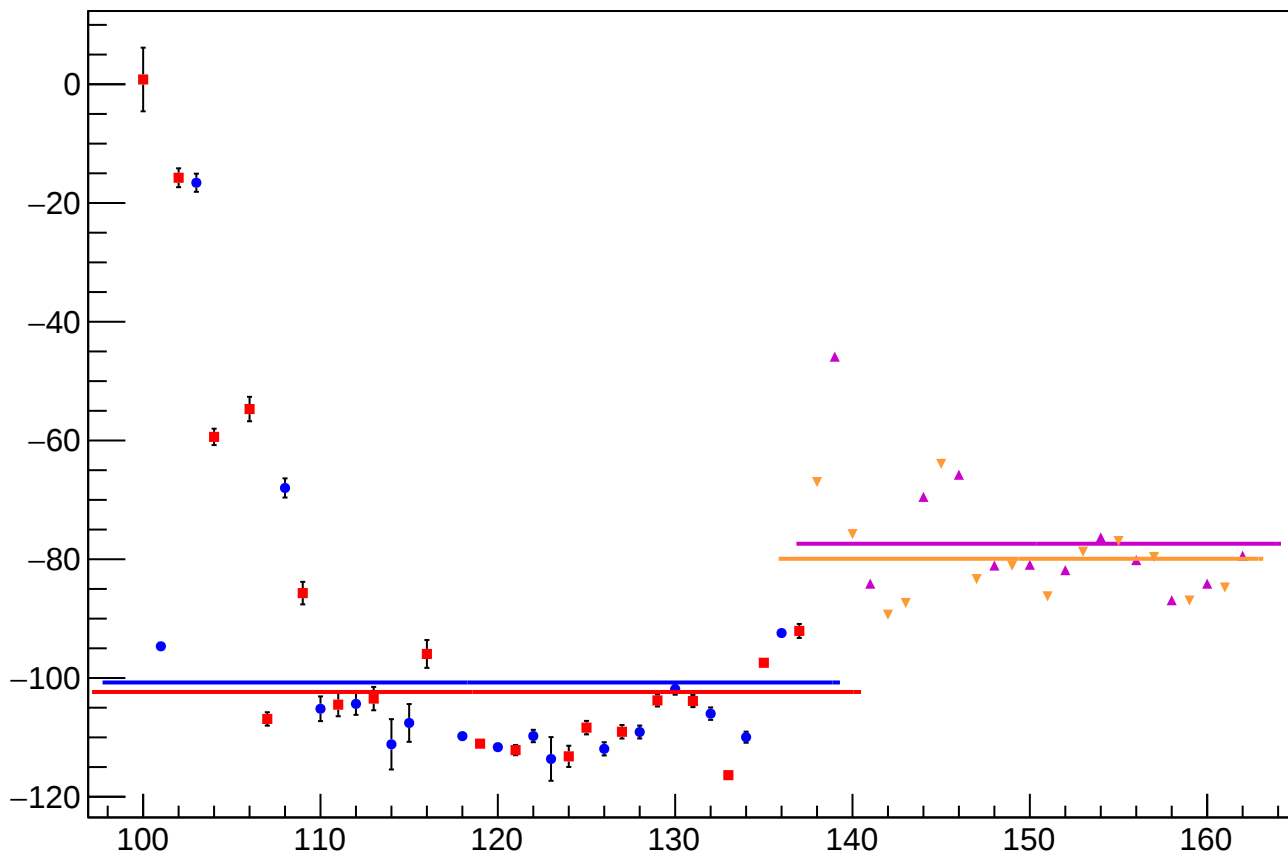
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 7.604+/-0.416  $\chi^2/\text{NDF}$ : 2325.0/16  
 Left Out: 15.360+/-0.154  $\chi^2/\text{NDF}$ :2259.2/12  
 Right Out: 10.337+/-0.416  $\chi^2/\text{NDF}$ : 2281.8/18  
 Left In: 16.837+/-0.151  $\chi^2/\text{NDF}$ :2126.8/11

Left: 16.113+/-0.108  $\chi^2/\text{NDF}$ : 4432.7/24  
 Right: 8.969+/-0.294  $\chi^2/\text{NDF}$ : 4628.4/35  
 In: 15.757+/-0.142  $\chi^2/\text{NDF}$ :4887.2/28  
 Out: 14.754+/-0.145  $\chi^2/\text{NDF}$ :4668.9/31  
 All: 15.264+/-0.101  $\chi^2/\text{NDF}$ : 9580.6/60

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-100.753 \pm 0.248$   $\chi^2/\text{NDF}$ : 4522.6/16

Left Out:  $-79.918 \pm 0.129$   $\chi^2/\text{NDF}$ : 3385.8/12

Right Out:  $-102.354 \pm 0.246$   $\chi^2/\text{NDF}$ : 6078.9/18

Left In:  $-77.387 \pm 0.128$   $\chi^2/\text{NDF}$ : 4185.8/11

Left:  $-78.649 \pm 0.091$   $\chi^2/\text{NDF}$ : 7765.9/24

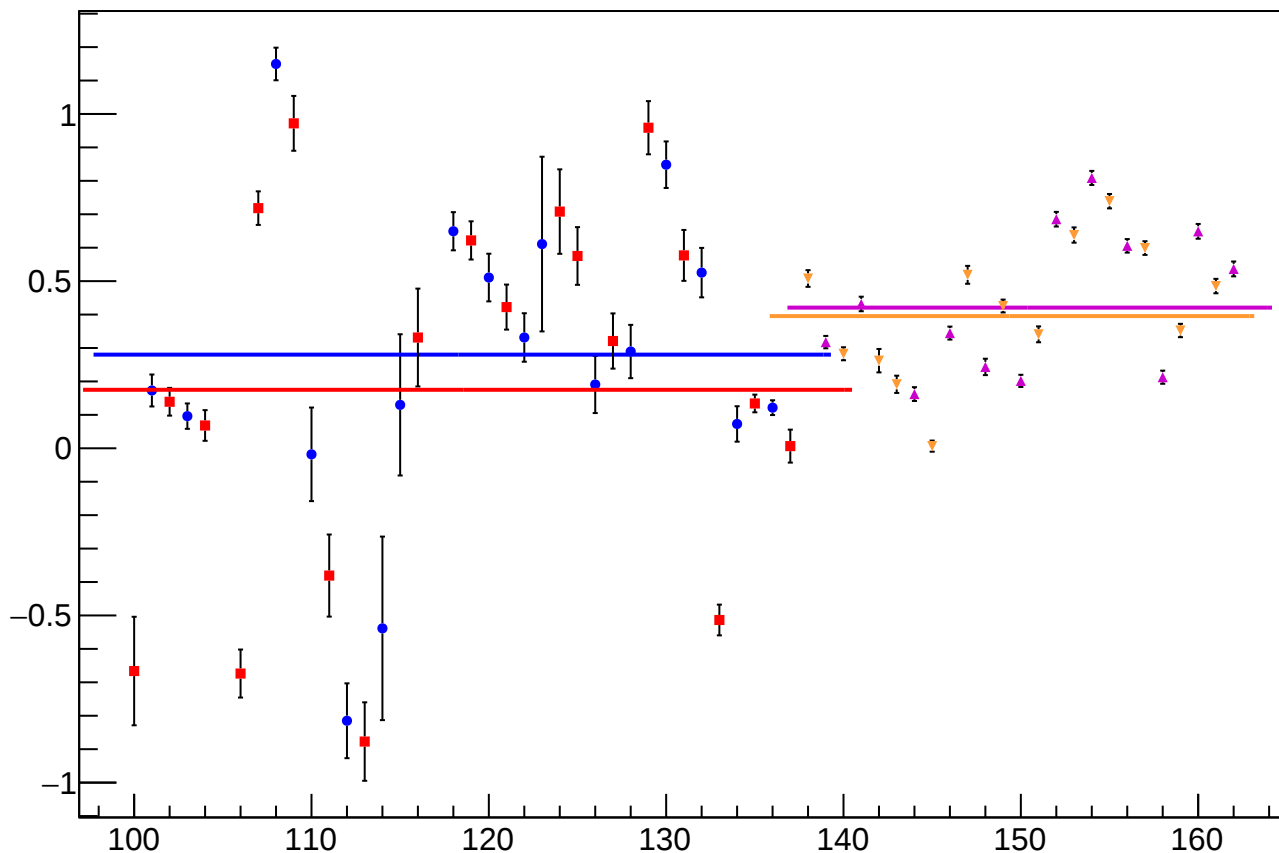
Right:  $-101.559 \pm 0.175$   $\chi^2/\text{NDF}$ : 10622.5/35

In:  $-82.316 \pm 0.114$   $\chi^2/\text{NDF}$ : 15712.3/28

Out:  $-84.723 \pm 0.114$   $\chi^2/\text{NDF}$ : 15989.3/31

All:  $-83.519 \pm 0.081$   $\chi^2/\text{NDF}$ : 31924.9/60

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.280 \pm 0.013$   $\chi^2/\text{NDF}$ : 656.0/16

Left Out:  $0.395 \pm 0.006$   $\chi^2/\text{NDF}$ : 1192.8/12

Right Out:  $0.175 \pm 0.013$   $\chi^2/\text{NDF}$ : 966.7/18

Left In:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}$ : 1213.2/11

Left:  $0.408 \pm 0.004$   $\chi^2/\text{NDF}$ : 2414.8/24

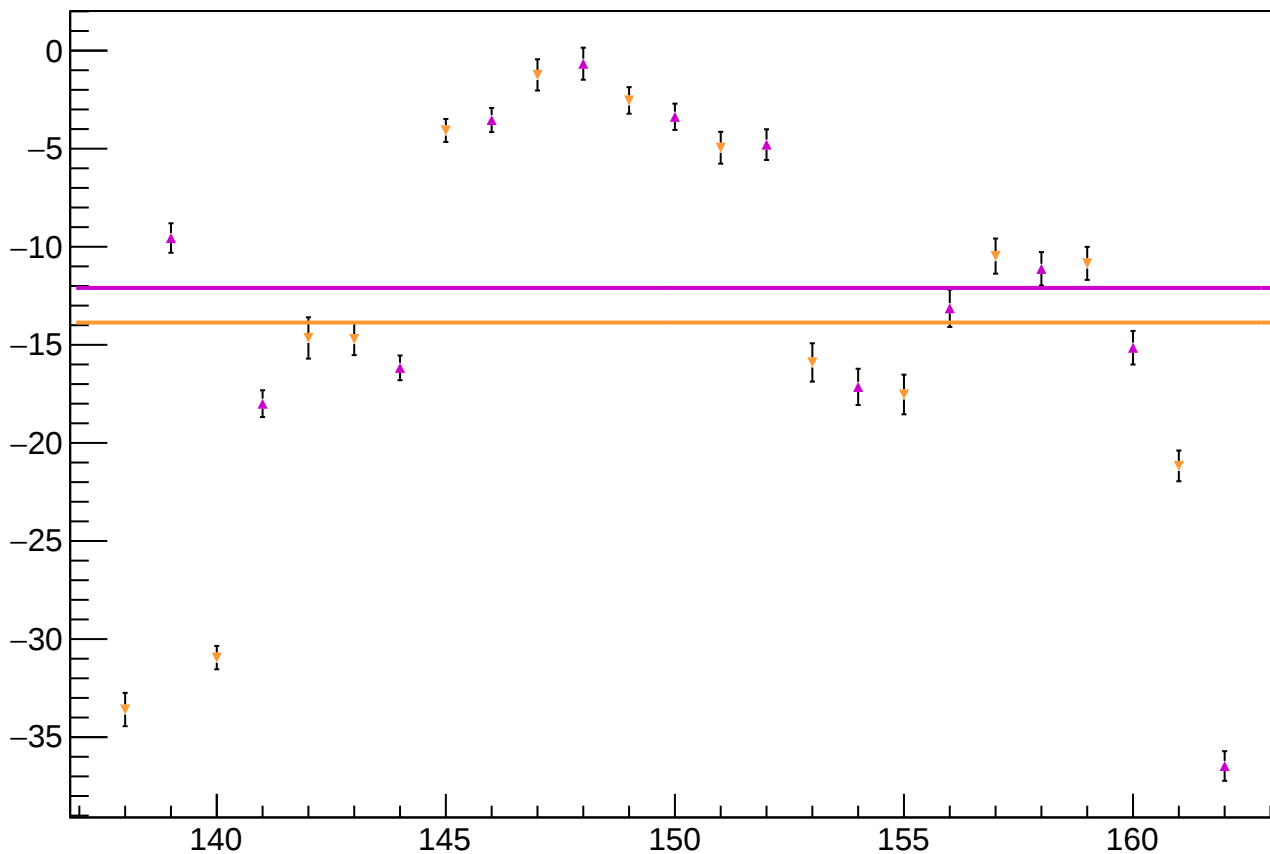
Right:  $0.227 \pm 0.010$   $\chi^2/\text{NDF}$ : 1653.2/35

In:  $0.398 \pm 0.005$   $\chi^2/\text{NDF}$ : 1960.3/28

Out:  $0.358 \pm 0.006$   $\chi^2/\text{NDF}$ : 2382.8/31

All:  $0.378 \pm 0.004$   $\chi^2/\text{NDF}$ : 4369.2/60

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



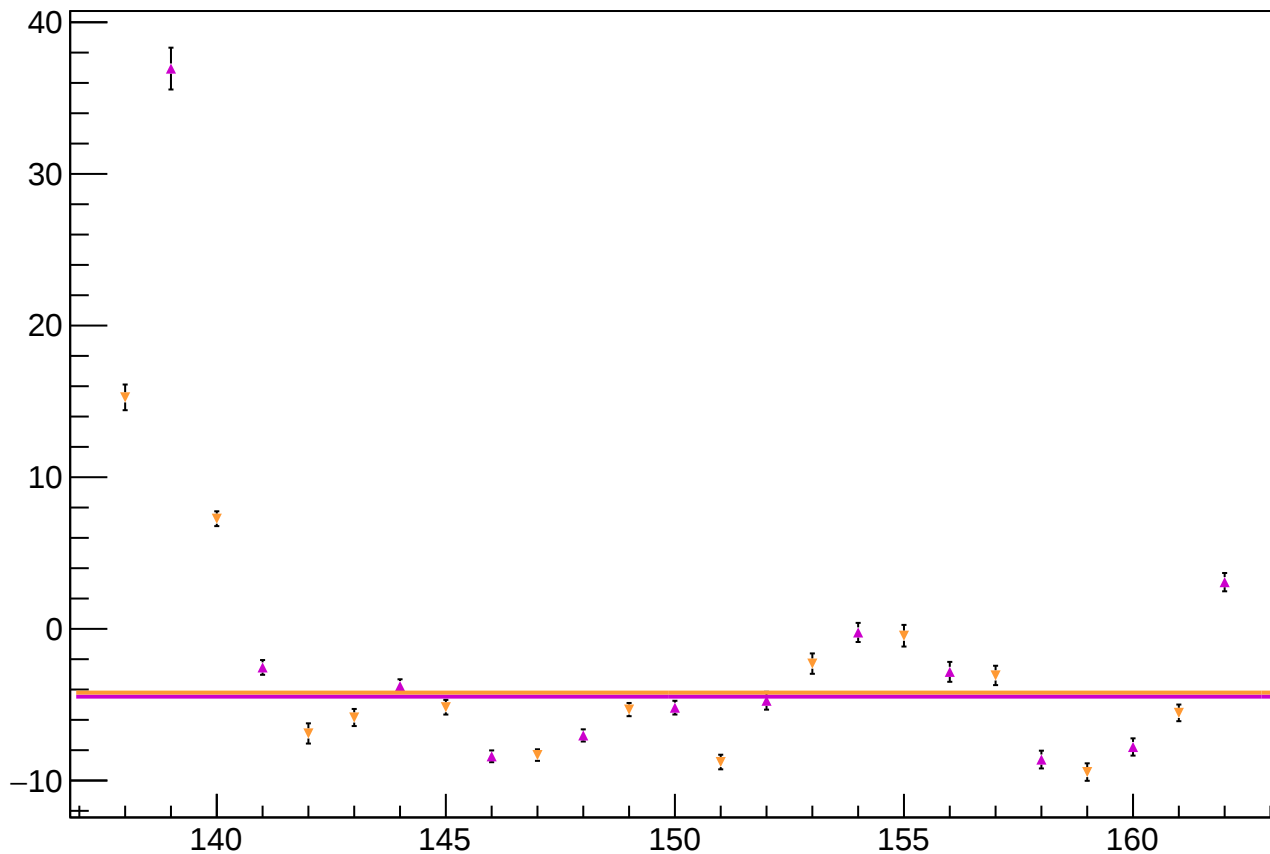
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -13.863+/-0.218  $\chi^2/\text{NDF}$ :2423.5/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -12.099+/-0.217  $\chi^2/\text{NDF}$ :1861.1/11

Left: -12.978+/-0.154  $\chi^2/\text{NDF}$ : 4317.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.099+/-0.217  $\chi^2/\text{NDF}$ :1861.1/11  
 Out: -13.863+/-0.218  $\chi^2/\text{NDF}$ :2423.5/12

All: -12.978+/-0.154  $\chi^2/\text{NDF}$ : 4317.6/24

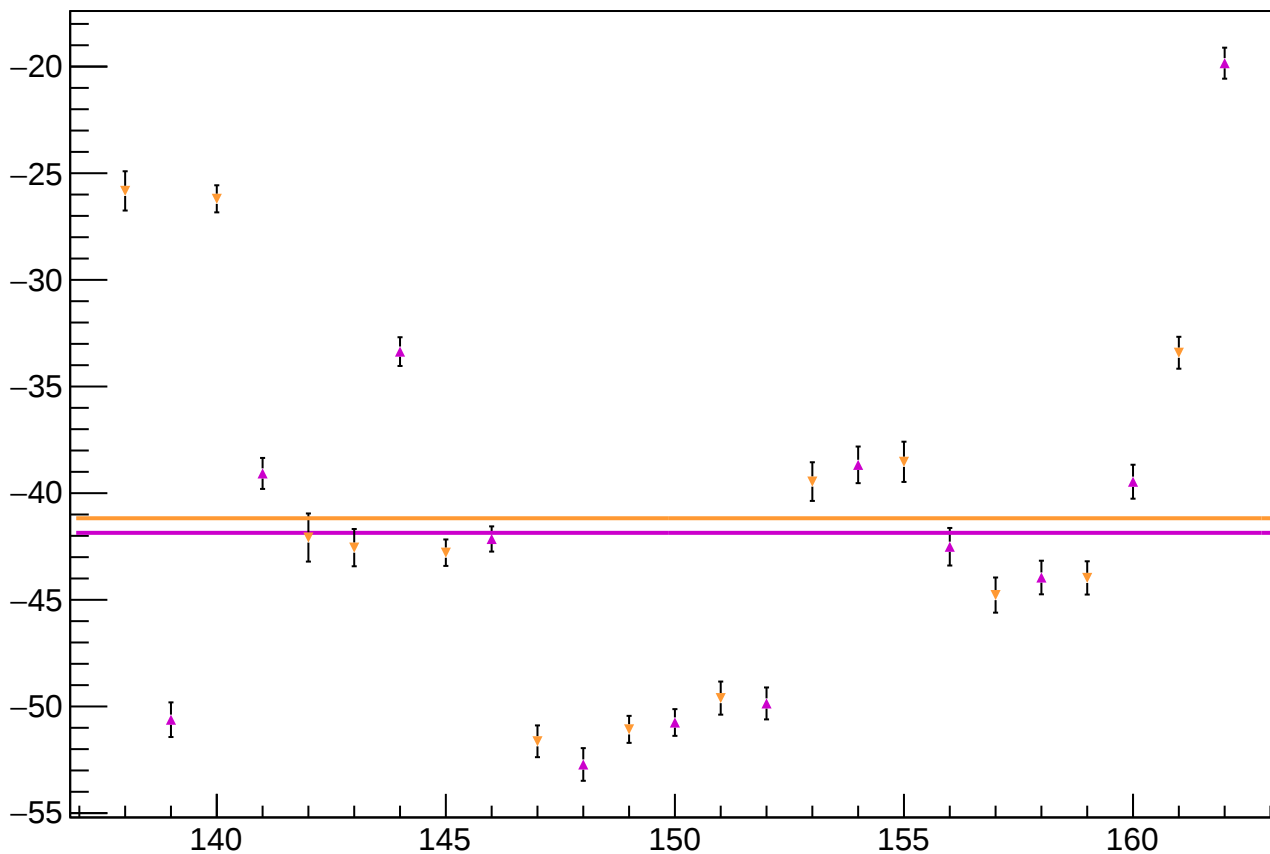
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.203+/-0.150  $\chi^2/\text{NDF}$ :1448.5/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.467+/-0.151  $\chi^2/\text{NDF}$ :1357.5/11

Left: -4.334+/-0.106  $\chi^2/\text{NDF}$ : 2807.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.467+/-0.151  $\chi^2/\text{NDF}$ :1357.5/11  
 Out: -4.203+/-0.150  $\chi^2/\text{NDF}$ :1448.5/12  
 All: -4.334+/-0.106  $\chi^2/\text{NDF}$ : 2807.6/24

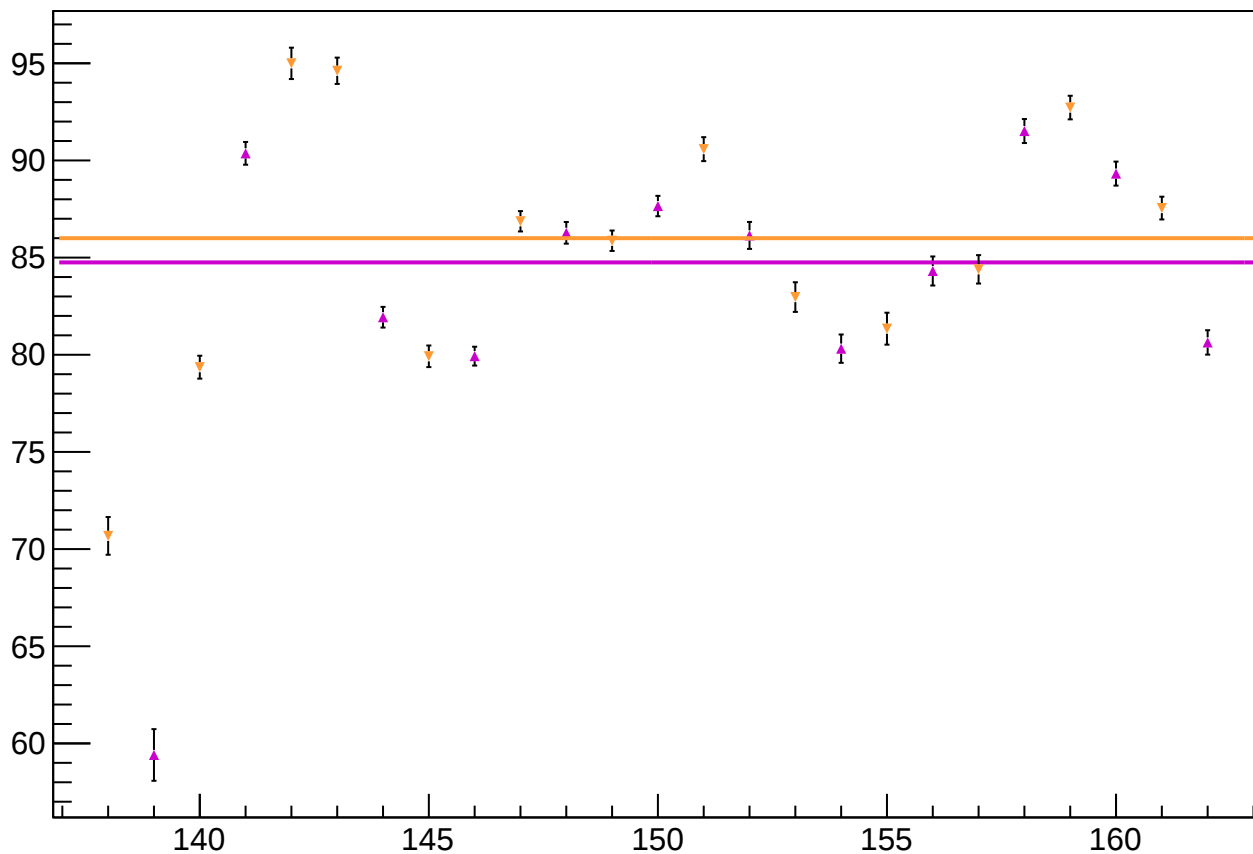
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.176+/-0.215  $\chi^2/\text{NDF}$ :1554.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -41.860+/-0.212  $\chi^2/\text{NDF}$ :1754.5/11

Left: -41.523+/-0.151  $\chi^2/\text{NDF}$ : 3314.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -41.860+/-0.212  $\chi^2/\text{NDF}$ :1754.5/11  
 Out: -41.176+/-0.215  $\chi^2/\text{NDF}$ :1554.9/12  
 All: -41.523+/-0.151  $\chi^2/\text{NDF}$ : 3314.5/24

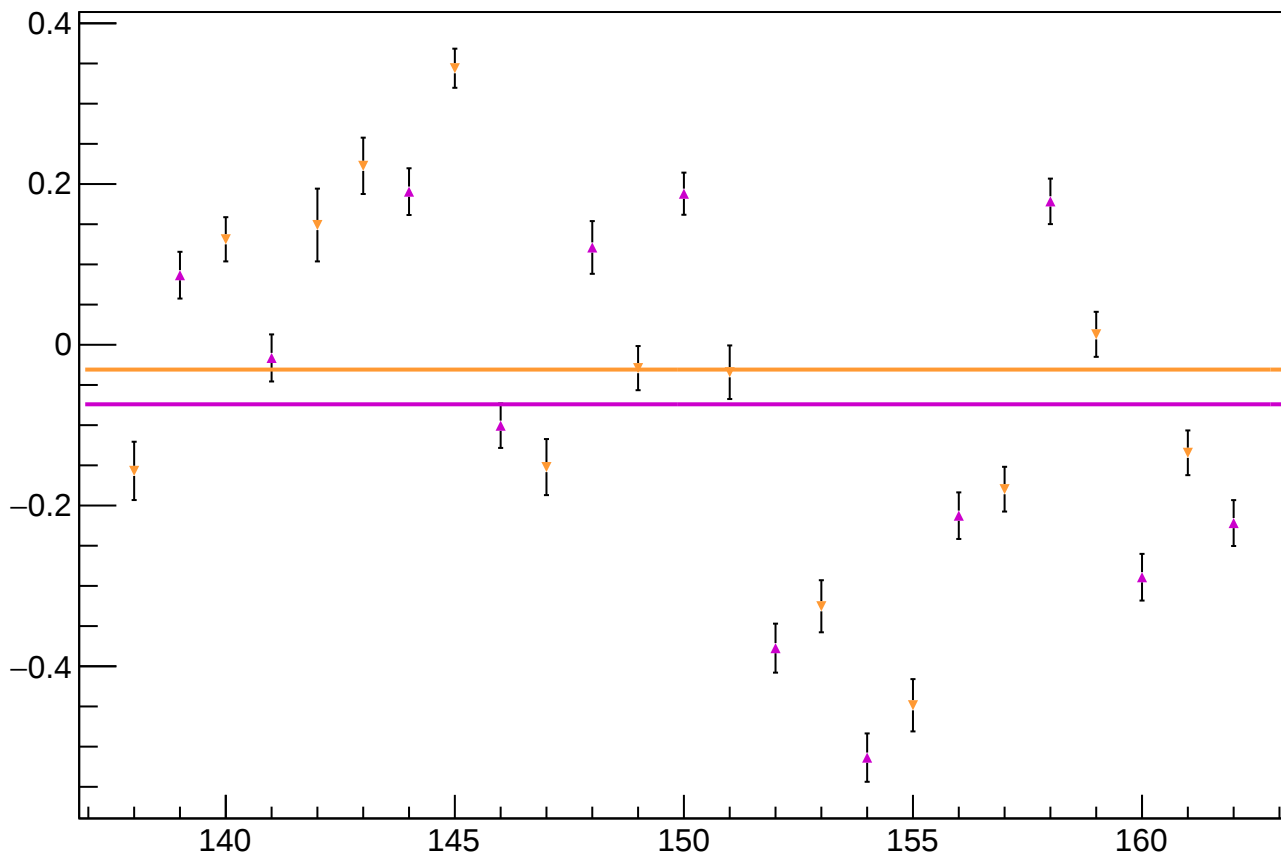
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.999+/-0.178  $\chi^2/\text{NDF}$ :1022.1/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 84.753+/-0.178  $\chi^2/\text{NDF}$ :879.1/11

Left: 85.375+/-0.126  $\chi^2/\text{NDF}$ : 1925.7/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 84.753+/-0.178  $\chi^2/\text{NDF}$ :879.1/11  
 Out: 85.999+/-0.178  $\chi^2/\text{NDF}$ :1022.1/12  
 All: 85.375+/-0.126  $\chi^2/\text{NDF}$ : 1925.7/24

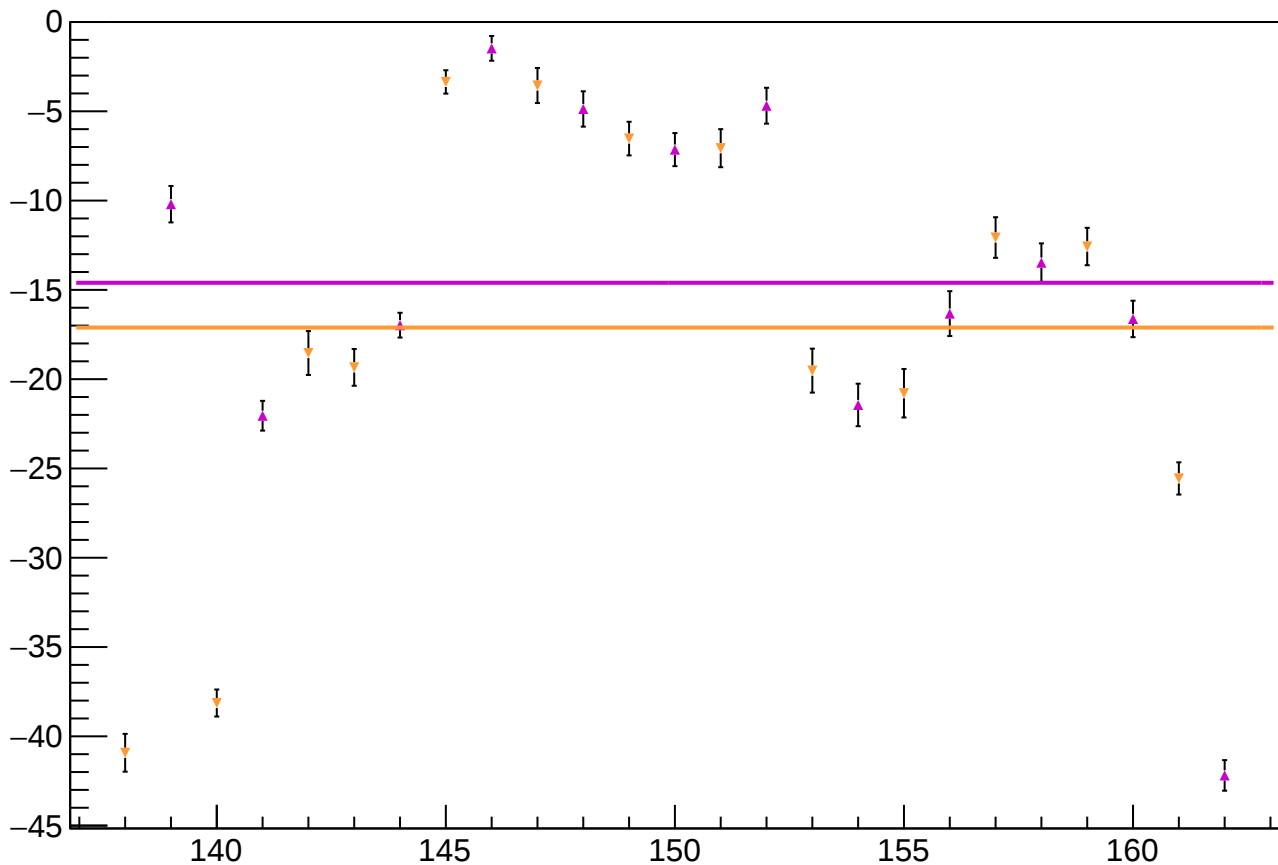
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-0.031 \pm 0.008$   $\chi^2/\text{NDF}: 656.5/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-0.074 \pm 0.008$   $\chi^2/\text{NDF}: 750.1/11$

Left:  $-0.053 \pm 0.006$   $\chi^2/\text{NDF}: 1419.7/24$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-0.074 \pm 0.008$   $\chi^2/\text{NDF}: 750.1/11$   
 Out:  $-0.031 \pm 0.008$   $\chi^2/\text{NDF}: 656.5/12$   
 All:  $-0.053 \pm 0.006$   $\chi^2/\text{NDF}: 1419.7/24$

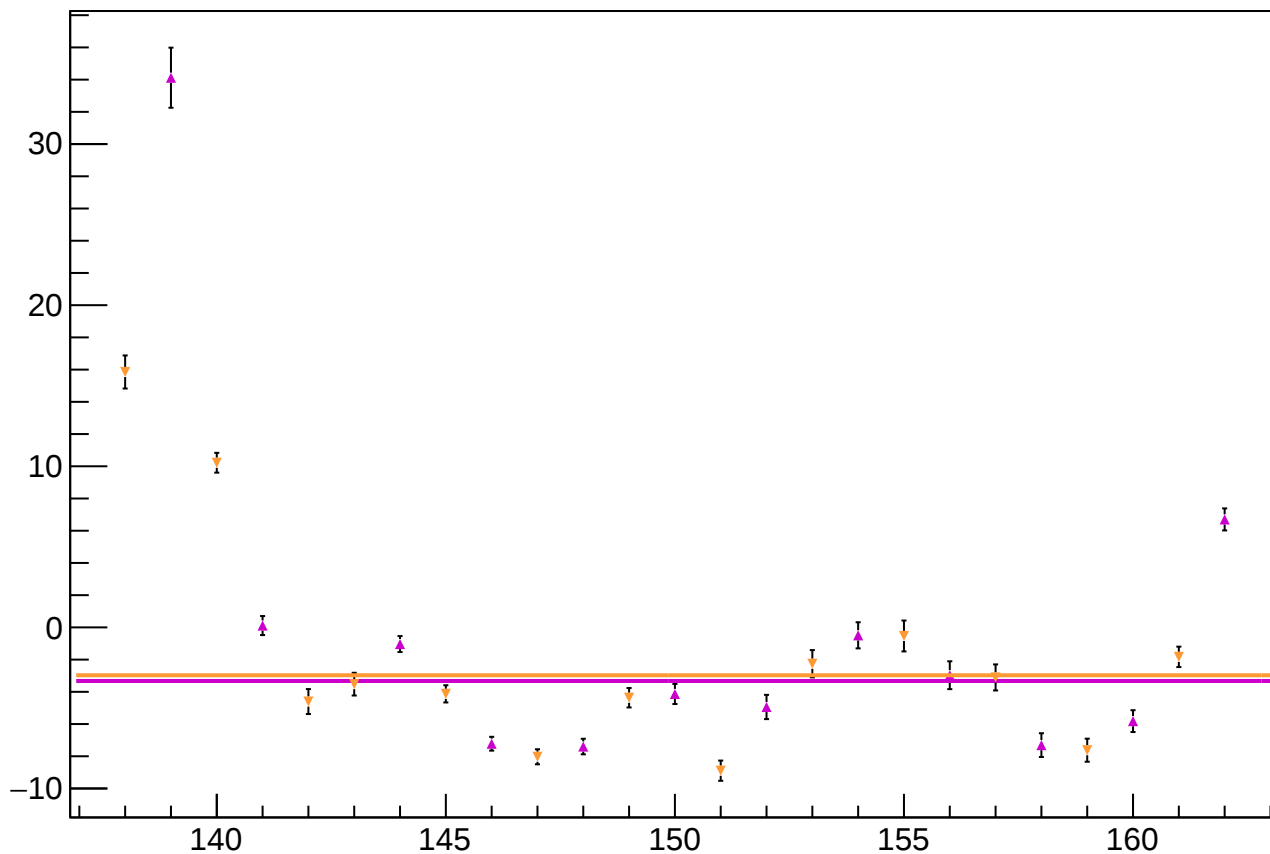
reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -17.109 $\pm$ 0.270  $\chi^2/\text{NDF}$ :2268.0/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -14.603 $\pm$ 0.265  $\chi^2/\text{NDF}$ :1804.5/11

Left: -15.832 $\pm$ 0.189  $\chi^2/\text{NDF}$ : 4116.5/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -14.603 $\pm$ 0.265  $\chi^2/\text{NDF}$ :1804.5/11  
 Out: -17.109 $\pm$ 0.270  $\chi^2/\text{NDF}$ :2268.0/12  
 All: -15.832 $\pm$ 0.189  $\chi^2/\text{NDF}$ : 4116.5/24

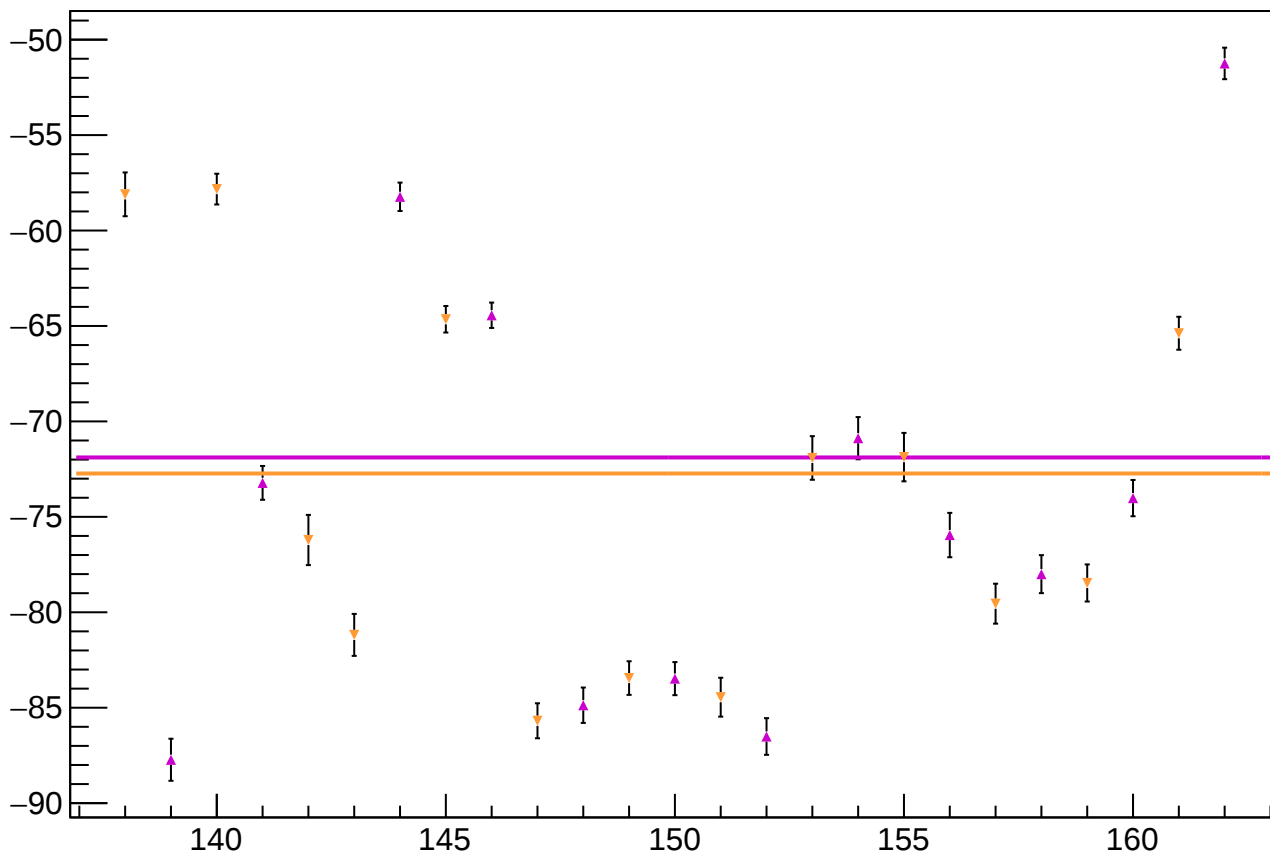
reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.973+/-0.185  $\chi^2/\text{NDF}$ :1071.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.327+/-0.182  $\chi^2/\text{NDF}$ :888.6/11

Left: -3.153+/-0.130  $\chi^2/\text{NDF}$ : 1961.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.327+/-0.182  $\chi^2/\text{NDF}$ :888.6/11  
 Out: -2.973+/-0.185  $\chi^2/\text{NDF}$ :1071.3/12  
 All: -3.153+/-0.130  $\chi^2/\text{NDF}$ : 1961.8/24

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



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

Left Out: -72.729+/-0.268  $\chi^2/\text{NDF}$ :1336.9/12

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

Left In: -71.888+/-0.259  $\chi^2/\text{NDF}$ :1959.2/11

Left: -72.295+/-0.186  $\chi^2/\text{NDF}$ : 3301.2/24

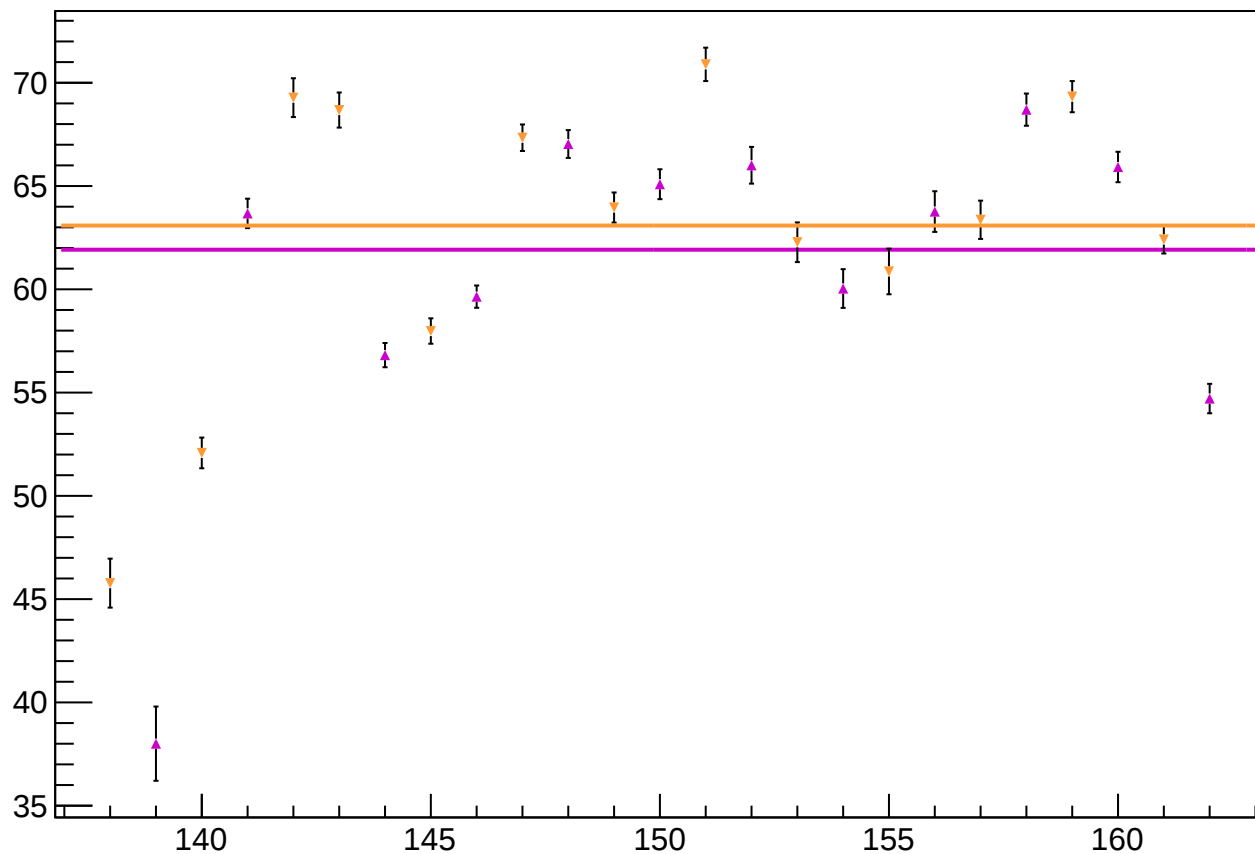
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -71.888+/-0.259  $\chi^2/\text{NDF}$ :1959.2/11

Out: -72.729+/-0.268  $\chi^2/\text{NDF}$ :1336.9/12

All: -72.295+/-0.186  $\chi^2/\text{NDF}$ : 3301.2/24

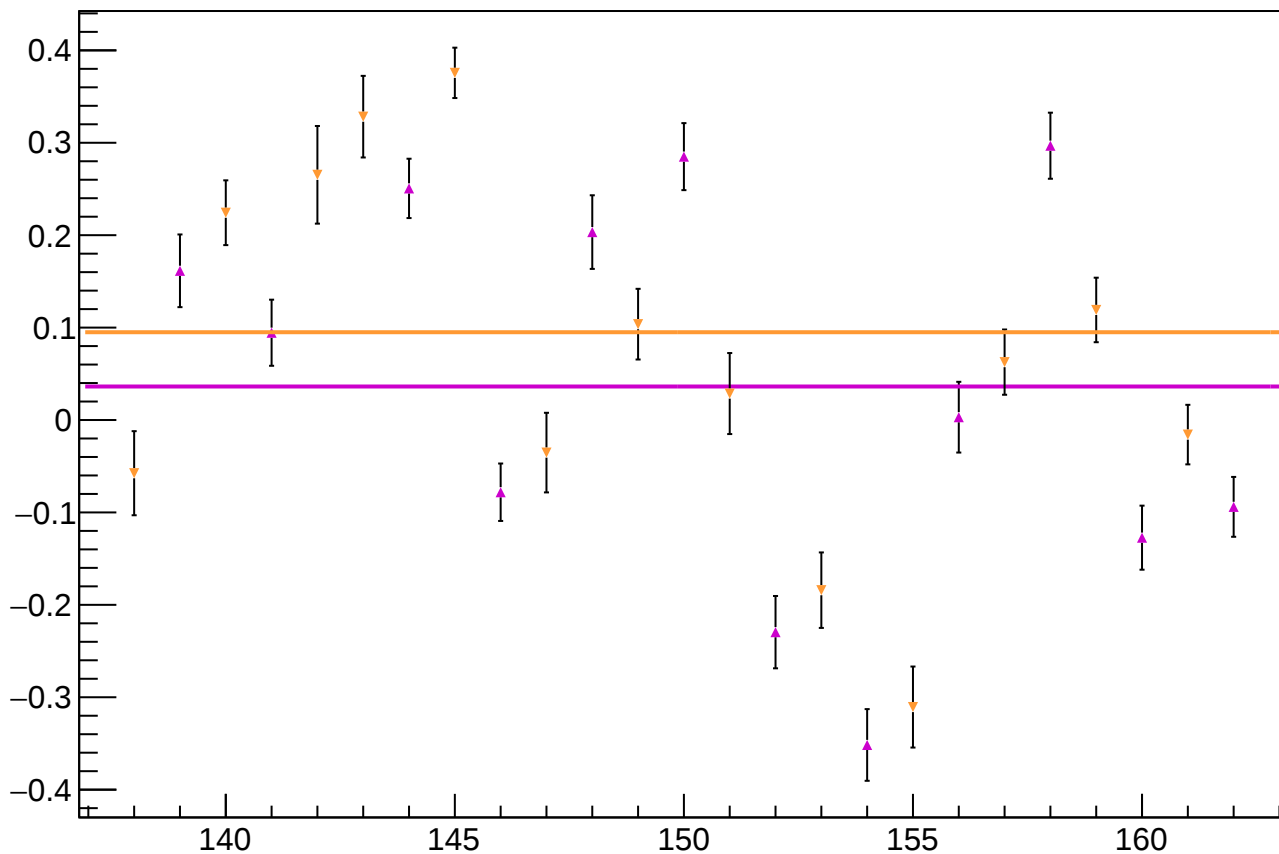
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 63.087+/-0.221     $\chi^2/\text{NDF}$ :801.1/12  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 61.918+/-0.215     $\chi^2/\text{NDF}$ :589.7/11

Left: 62.487+/-0.154     $\chi^2/\text{NDF}$ : 1405.2/24  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 61.918+/-0.215     $\chi^2/\text{NDF}$ :589.7/11  
 Out: 63.087+/-0.221     $\chi^2/\text{NDF}$ :801.1/12  
 All: 62.487+/-0.154     $\chi^2/\text{NDF}$ : 1405.2/24

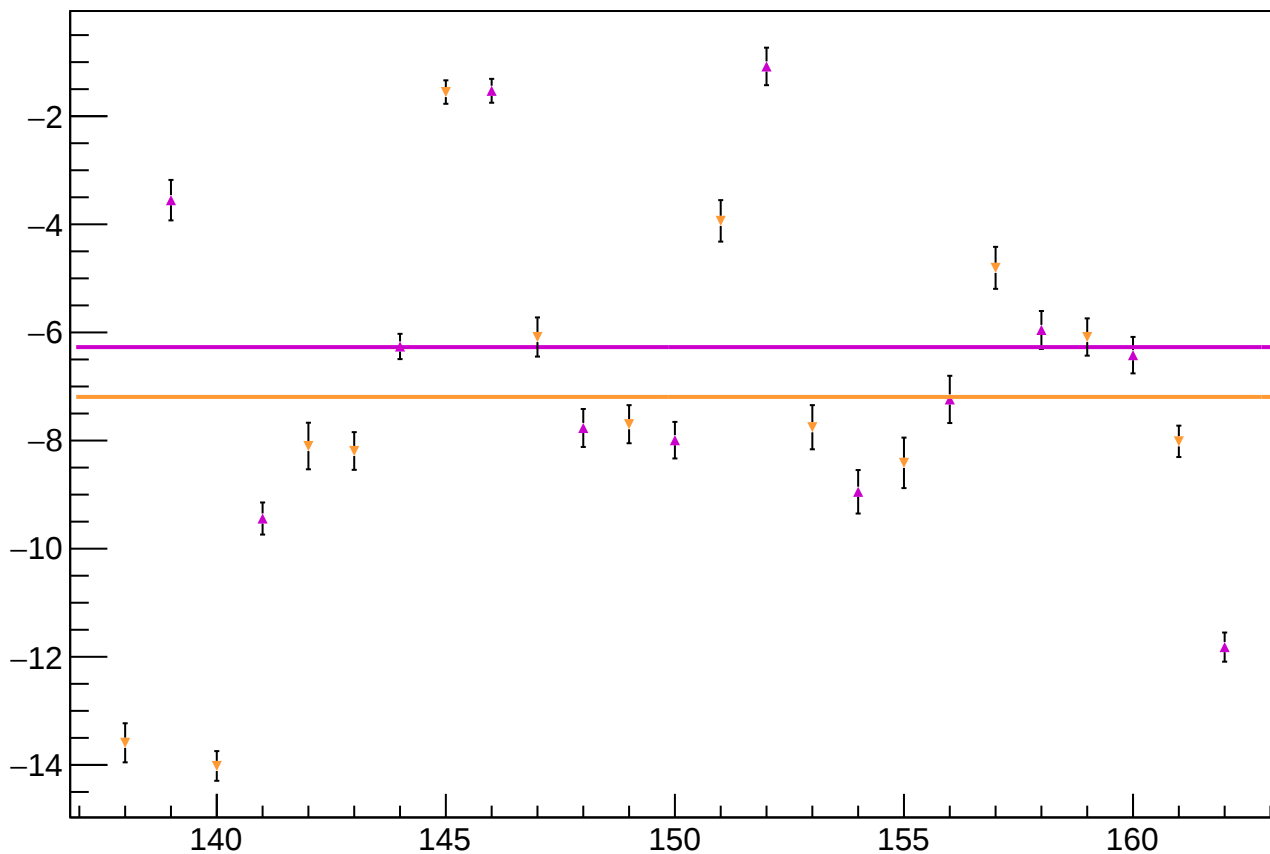
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.095+/-0.011  $\chi^2/\text{NDF}$ :326.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.036+/-0.010  $\chi^2/\text{NDF}$ :374.0/11

Left: 0.065+/-0.007  $\chi^2/\text{NDF}$ : 716.0/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.036+/-0.010  $\chi^2/\text{NDF}$ :374.0/11  
 Out: 0.095+/-0.011  $\chi^2/\text{NDF}$ :326.2/12  
 All: 0.065+/-0.007  $\chi^2/\text{NDF}$ : 716.0/24

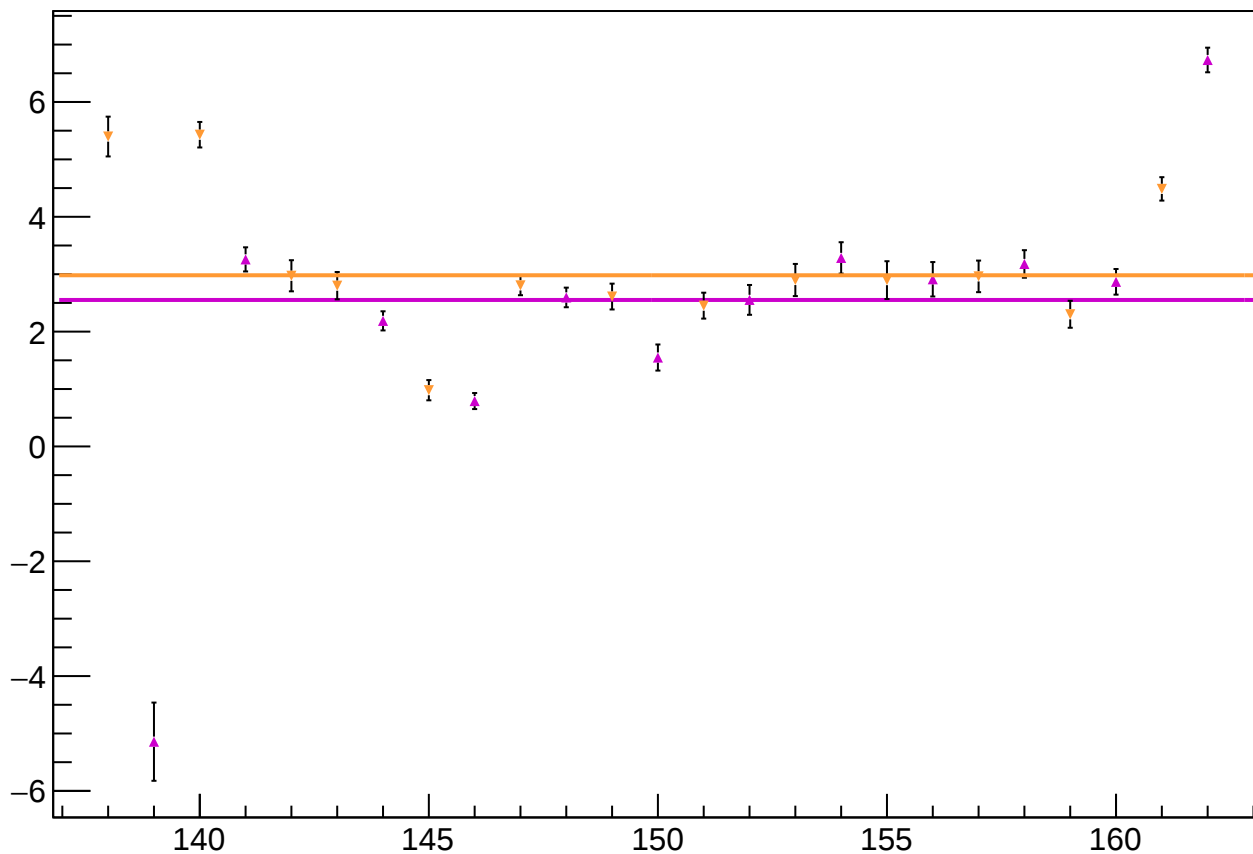
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.193+/-0.093  $\chi^2/\text{NDF}$ :1767.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.271+/-0.090  $\chi^2/\text{NDF}$ :1369.6/11

Left: -6.715+/-0.065  $\chi^2/\text{NDF}$ : 3187.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.271+/-0.090  $\chi^2/\text{NDF}$ :1369.6/11  
 Out: -7.193+/-0.093  $\chi^2/\text{NDF}$ :1767.3/12  
 All: -6.715+/-0.065  $\chi^2/\text{NDF}$ : 3187.8/24

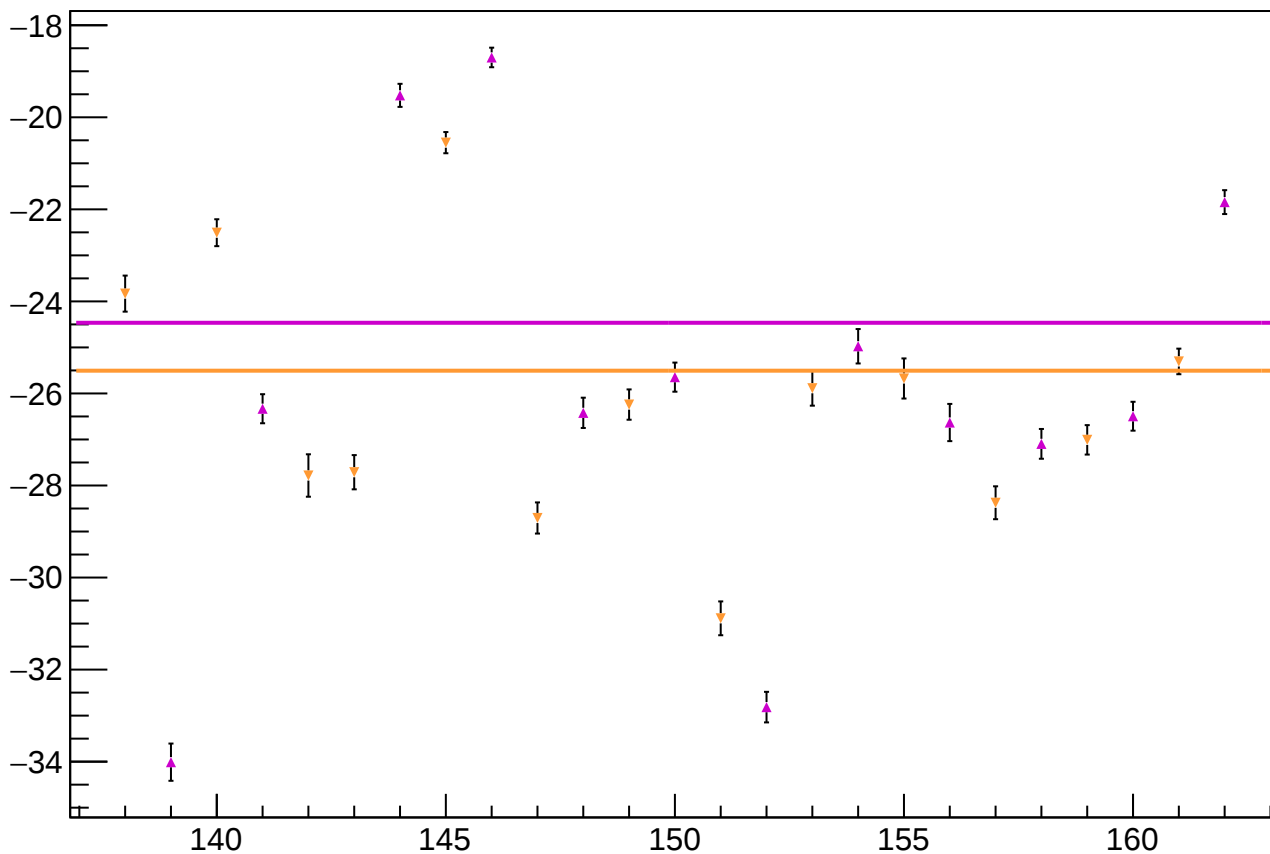
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000±/0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.982±/0.064  $\chi^2$ /NDF:371.6/12  
 Right Out: 0.000±/0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.551±/0.062  $\chi^2$ /NDF:719.6/11

Left: 2.757±/0.044  $\chi^2$ /NDF: 1114.6/24  
 Right: 0.000±/0.000  $\chi^2$ /NDF: 0.0/0  
 In: 2.551±/0.062  $\chi^2$ /NDF:719.6/11  
 Out: 2.982±/0.064  $\chi^2$ /NDF:371.6/12  
 All: 2.757±/0.044  $\chi^2$ /NDF: 1114.6/24

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

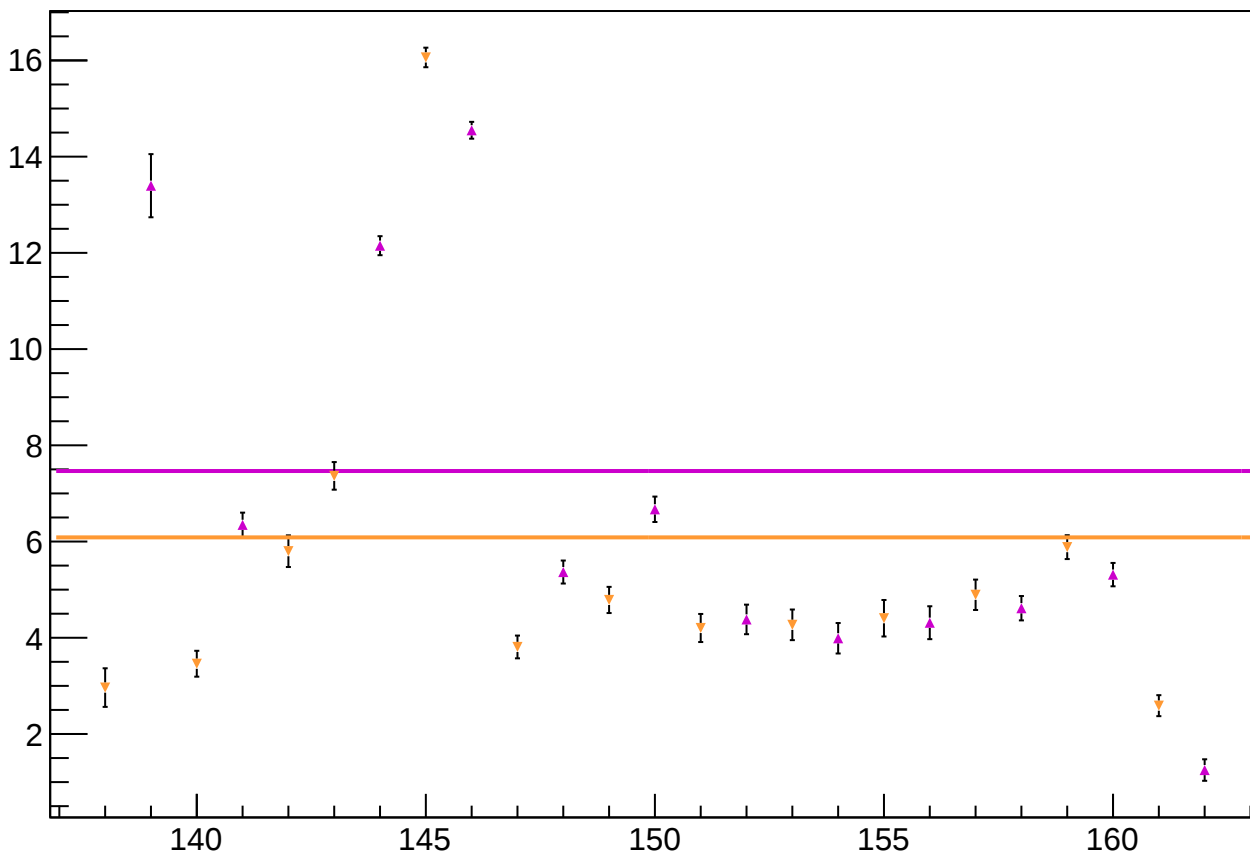


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -25.505+/-0.092  $\chi^2/\text{NDF}$ :1042.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -24.465+/-0.088  $\chi^2/\text{NDF}$ :2639.0/11

Left: -24.957+/-0.064  $\chi^2/\text{NDF}$ : 3748.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -24.465+/-0.088  $\chi^2/\text{NDF}$ :2639.0/11  
 Out: -25.505+/-0.092  $\chi^2/\text{NDF}$ :1042.6/12

All: -24.957+/-0.064  $\chi^2/\text{NDF}$ : 3748.5/24

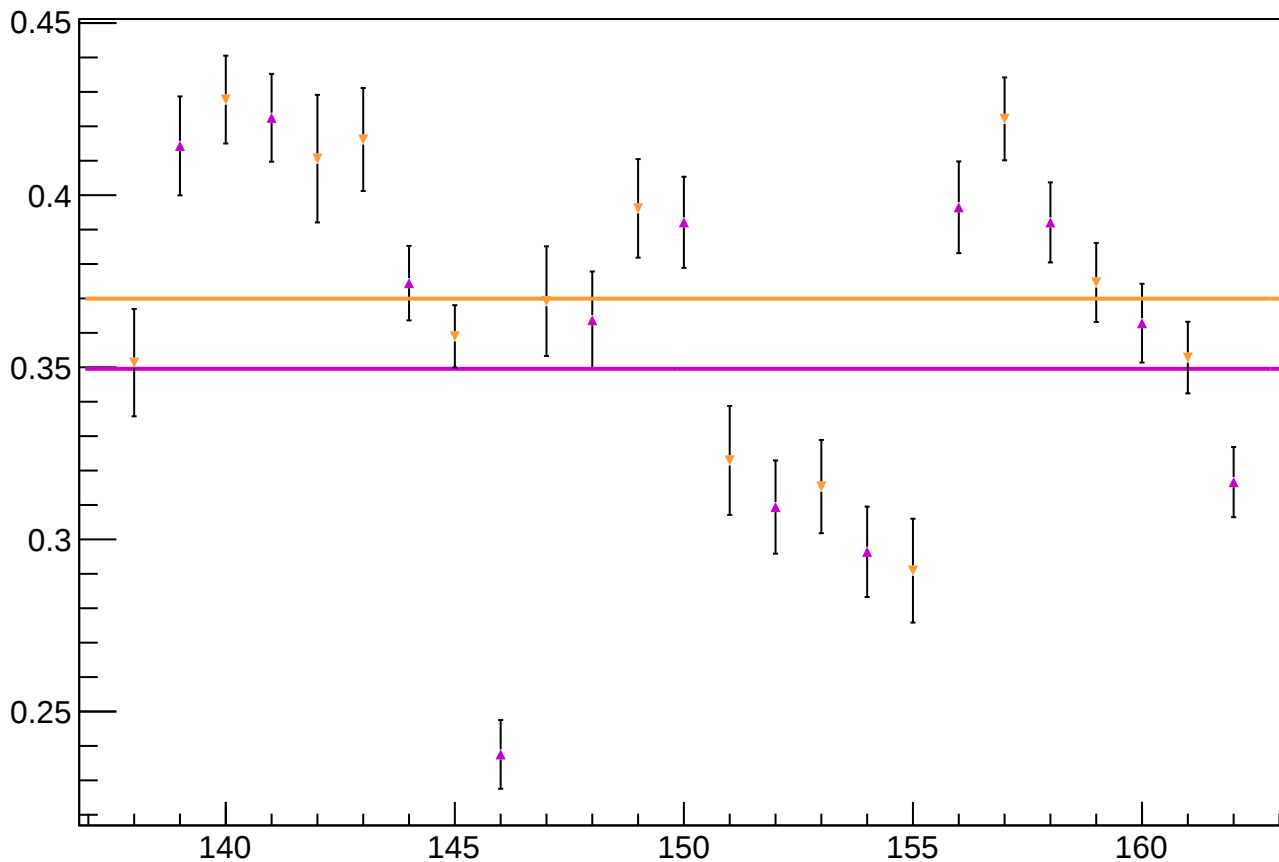
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.086+/-0.076  $\chi^2/\text{NDF}$ :3067.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.466+/-0.073  $\chi^2/\text{NDF}$ :3673.3/11

Left: 6.808+/-0.053  $\chi^2/\text{NDF}$ : 6913.0/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 7.466+/-0.073  $\chi^2/\text{NDF}$ :3673.3/11  
 Out: 6.086+/-0.076  $\chi^2/\text{NDF}$ :3067.6/12  
 All: 6.808+/-0.053  $\chi^2/\text{NDF}$ : 6913.0/24

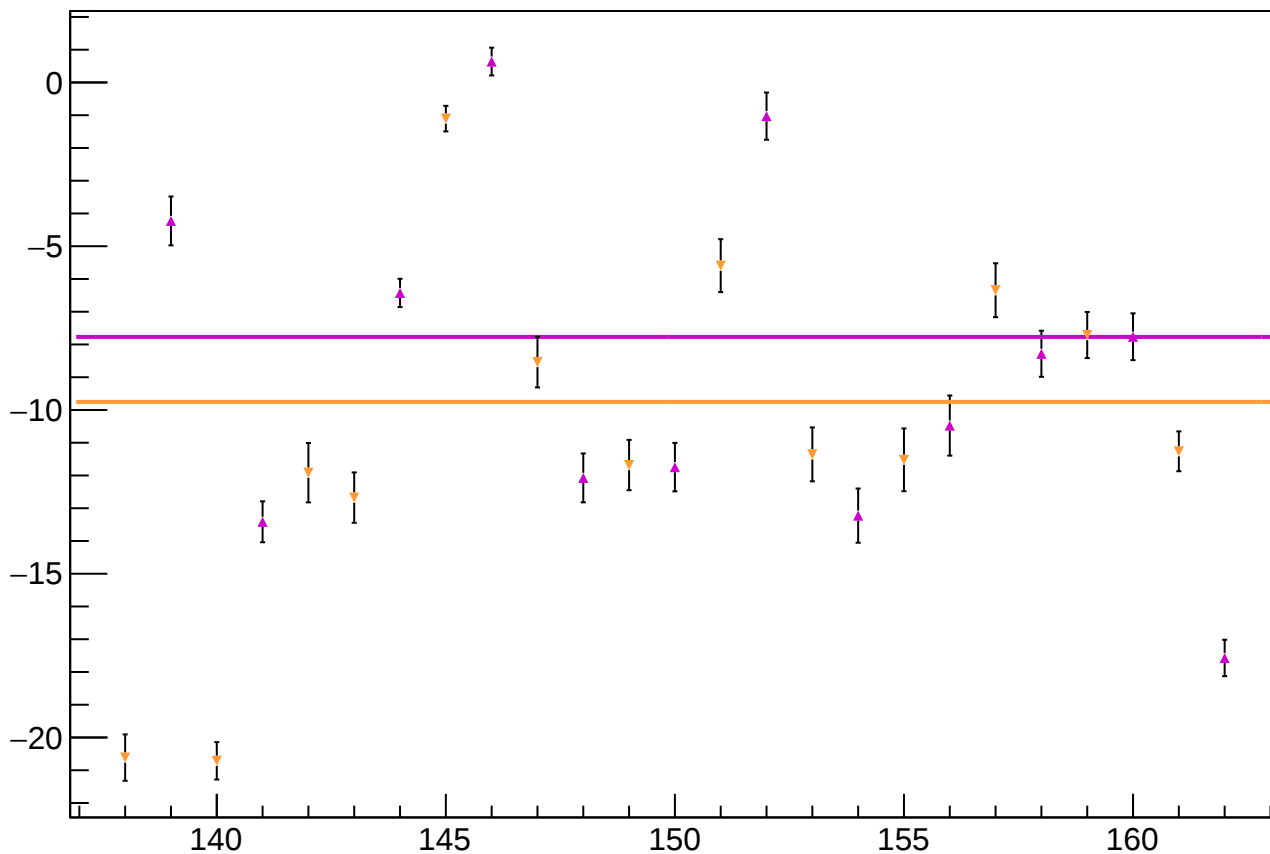
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.370 $\pm$ 0.004  $\chi^2$ /NDF:115.3/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.350 $\pm$ 0.003  $\chi^2$ /NDF:258.2/11

Left: 0.359 $\pm$ 0.003  $\chi^2$ /NDF: 389.9/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.350 $\pm$ 0.003  $\chi^2$ /NDF:258.2/11  
 Out: 0.370 $\pm$ 0.004  $\chi^2$ /NDF:115.3/12  
 All: 0.359 $\pm$ 0.003  $\chi^2$ /NDF: 389.9/24

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



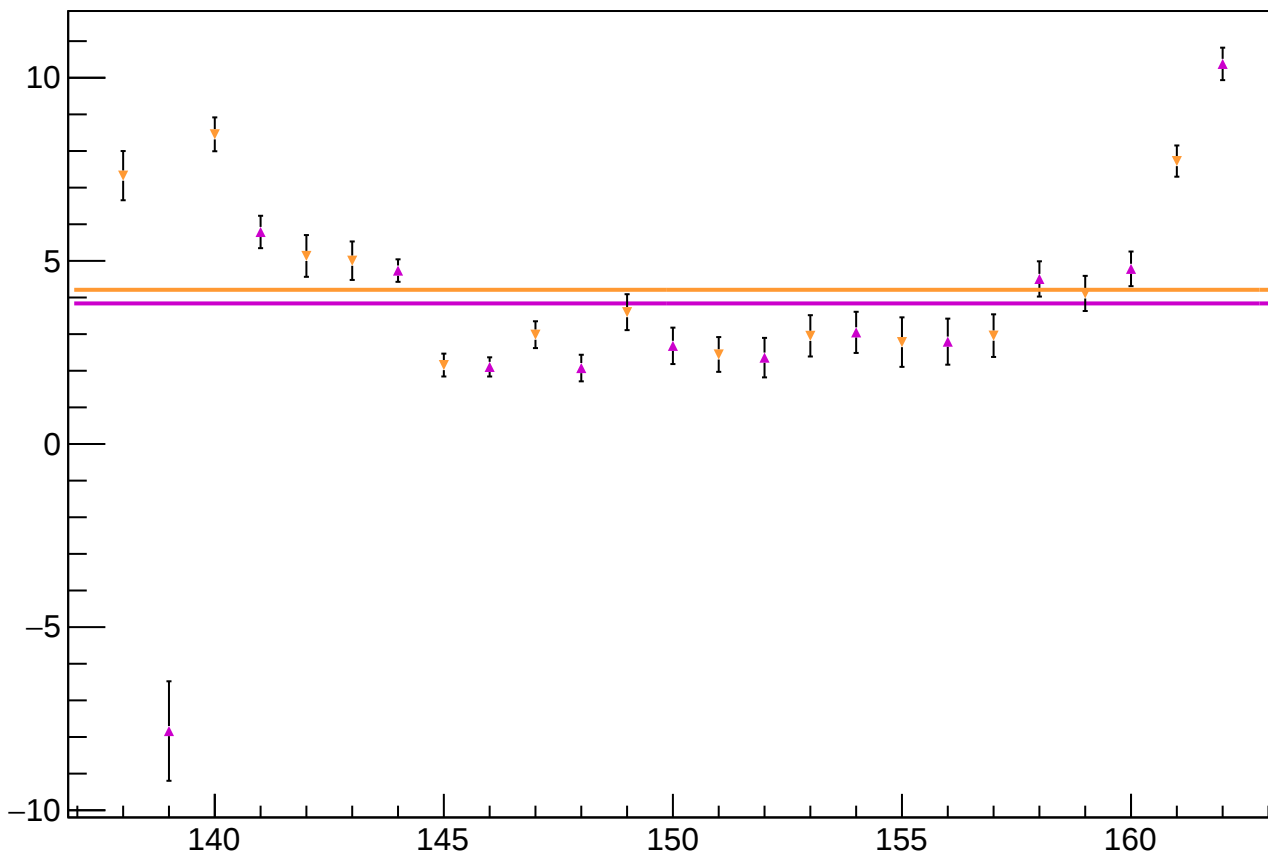
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.753+/-0.188  $\chi^2/\text{NDF}$ :1188.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -7.769+/-0.181  $\chi^2/\text{NDF}$ :1019.0/11

Left: -8.719+/-0.130  $\chi^2/\text{NDF}$ : 2265.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -7.769+/-0.181  $\chi^2/\text{NDF}$ :1019.0/11  
 Out: -9.753+/-0.188  $\chi^2/\text{NDF}$ :1188.6/12

All: -8.719+/-0.130  $\chi^2/\text{NDF}$ : 2265.5/24

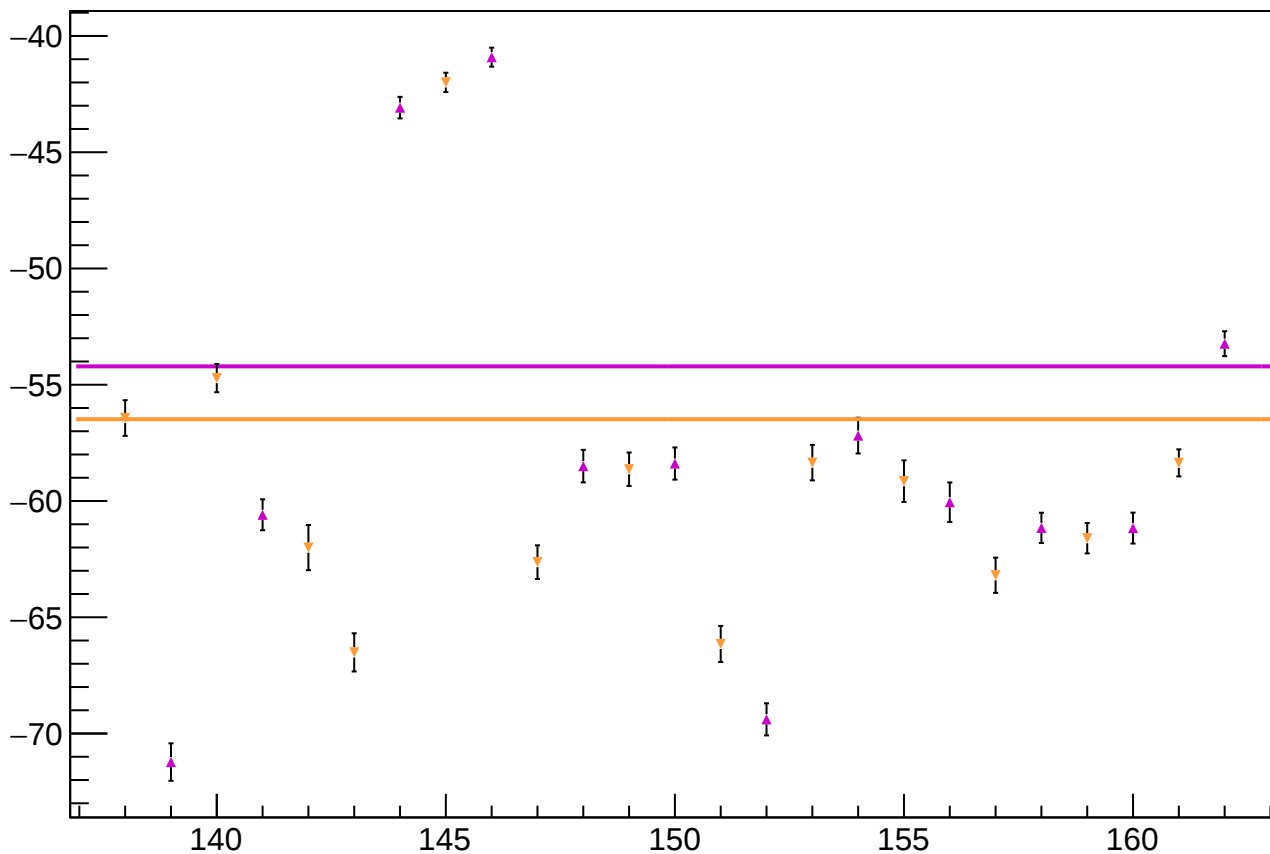
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.211 $\pm$ 0.131  $\chi^2$ /NDF:262.7/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.838 $\pm$ 0.124  $\chi^2$ /NDF:410.7/11

Left: 4.013 $\pm$ 0.090  $\chi^2$ /NDF: 677.7/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.838 $\pm$ 0.124  $\chi^2$ /NDF:410.7/11  
 Out: 4.211 $\pm$ 0.131  $\chi^2$ /NDF:262.7/12  
 All: 4.013 $\pm$ 0.090  $\chi^2$ /NDF: 677.7/24

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -56.481+/-0.188  $\chi^2/\text{NDF}$ :1805.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -54.210+/-0.177  $\chi^2/\text{NDF}$ :3028.5/11

Left: -55.277+/-0.129  $\chi^2/\text{NDF}$ : 4911.1/24

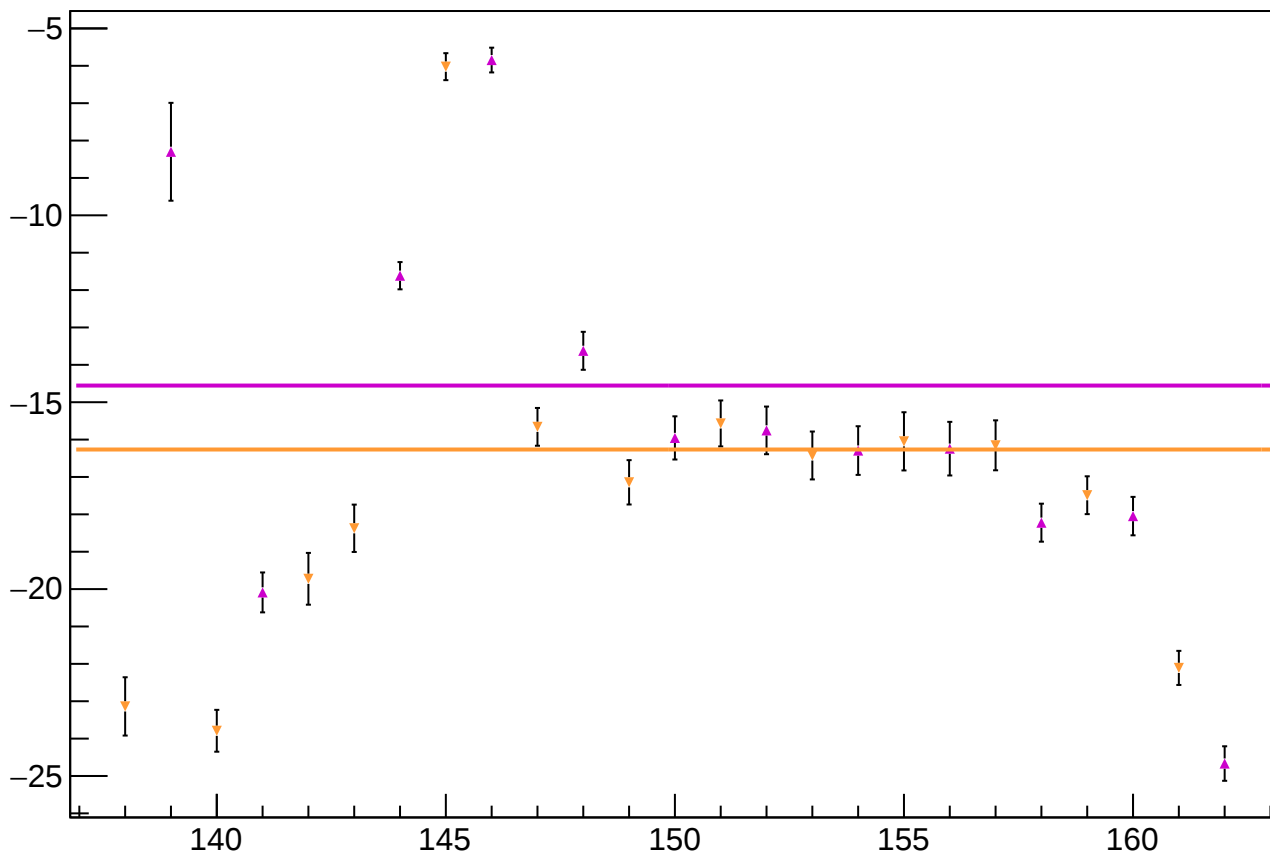
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.210+/-0.177  $\chi^2/\text{NDF}$ :3028.5/11

Out: -56.481+/-0.188  $\chi^2/\text{NDF}$ :1805.2/12

All: -55.277+/-0.129  $\chi^2/\text{NDF}$ : 4911.1/24

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -16.265+/-0.155  $\chi^2/\text{NDF}$ :1274.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -14.555+/-0.146  $\chi^2/\text{NDF}$ :1489.9/11

Left: -15.360+/-0.106  $\chi^2/\text{NDF}$ : 2829.2/24

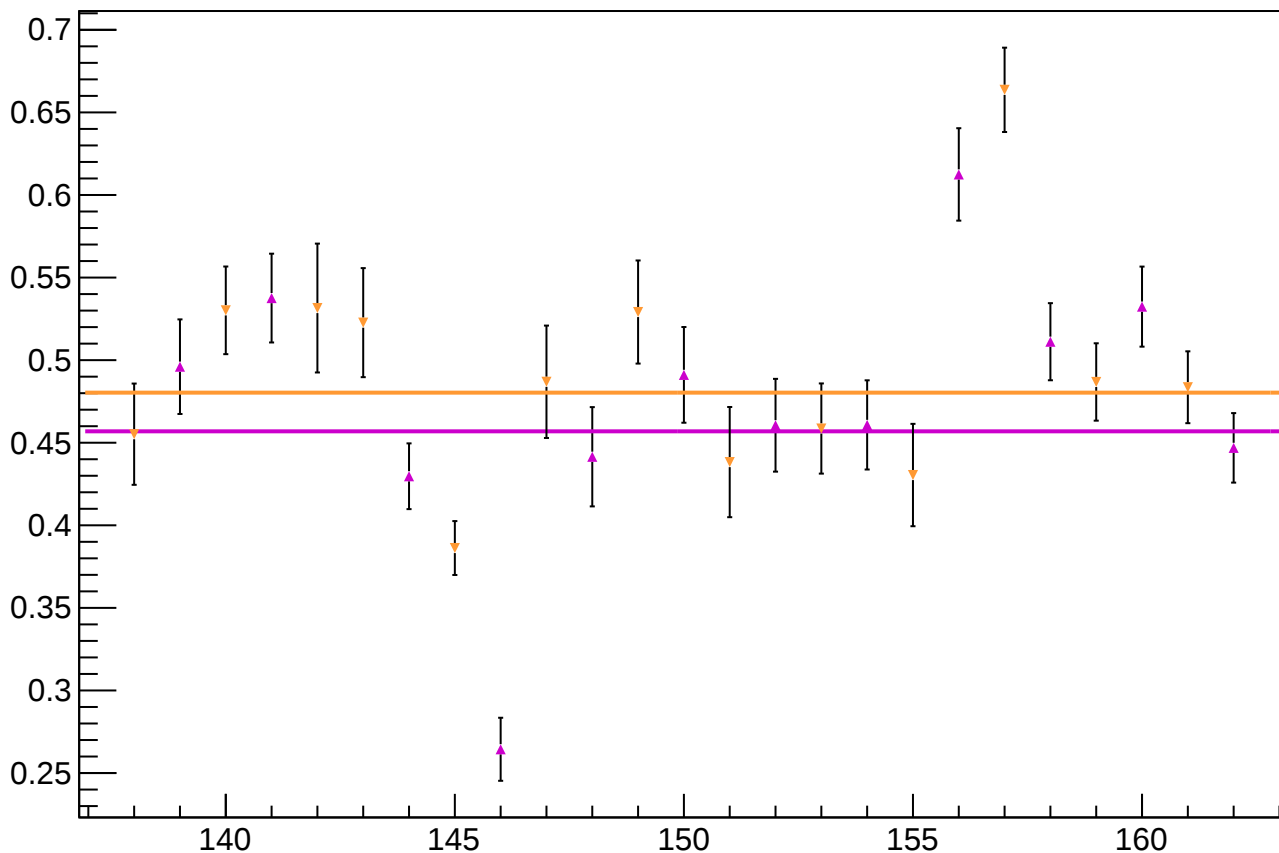
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -14.555+/-0.146  $\chi^2/\text{NDF}$ :1489.9/11

Out: -16.265+/-0.155  $\chi^2/\text{NDF}$ :1274.9/12

All: -15.360+/-0.106  $\chi^2/\text{NDF}$ : 2829.2/24

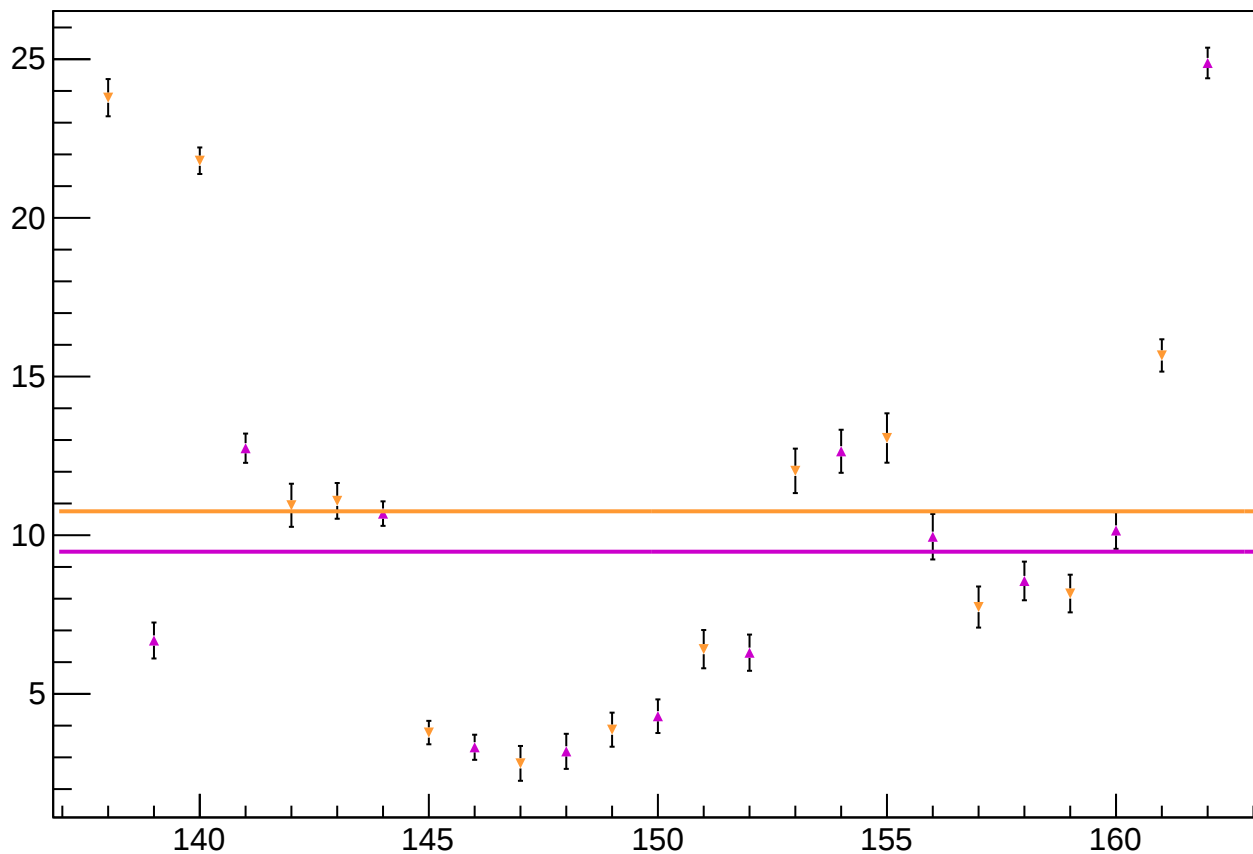
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.480 $\pm$ 0.007  $\chi^2$ /NDF:99.8/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.457 $\pm$ 0.007  $\chi^2$ /NDF:162.4/11

Left: 0.468 $\pm$ 0.005  $\chi^2$ /NDF: 267.4/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.457 $\pm$ 0.007  $\chi^2$ /NDF:162.4/11  
 Out: 0.480 $\pm$ 0.007  $\chi^2$ /NDF:99.8/12  
 All: 0.468 $\pm$ 0.005  $\chi^2$ /NDF: 267.4/24

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 10.753+/-0.151  $\chi^2/\text{NDF}$ :2119.0/12

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

Left In: 9.481+/-0.149  $\chi^2/\text{NDF}$ :1628.9/11

Left: 10.107+/-0.106  $\chi^2/\text{NDF}$ : 3783.8/24

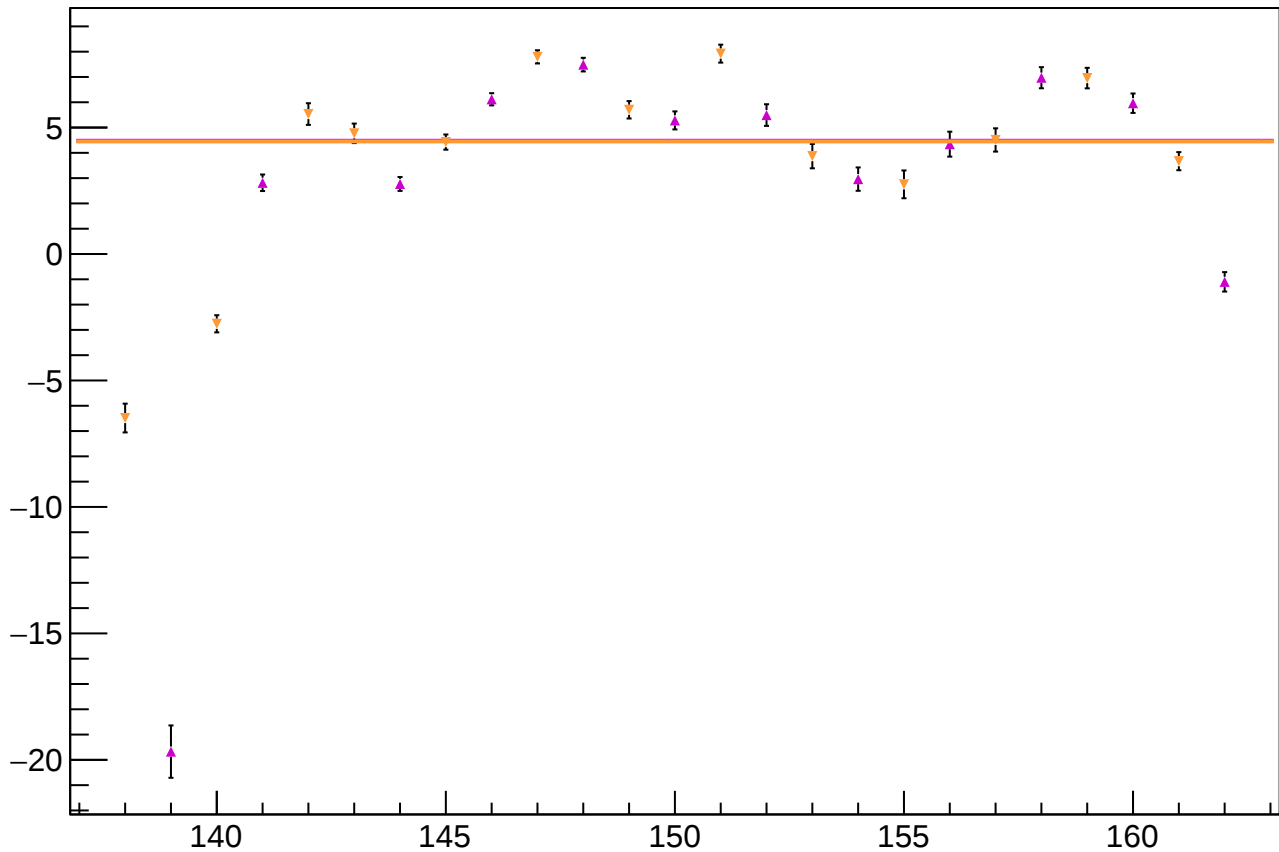
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9.481+/-0.149  $\chi^2/\text{NDF}$ :1628.9/11

Out: 10.753+/-0.151  $\chi^2/\text{NDF}$ :2119.0/12

All: 10.107+/-0.106  $\chi^2/\text{NDF}$ : 3783.8/24

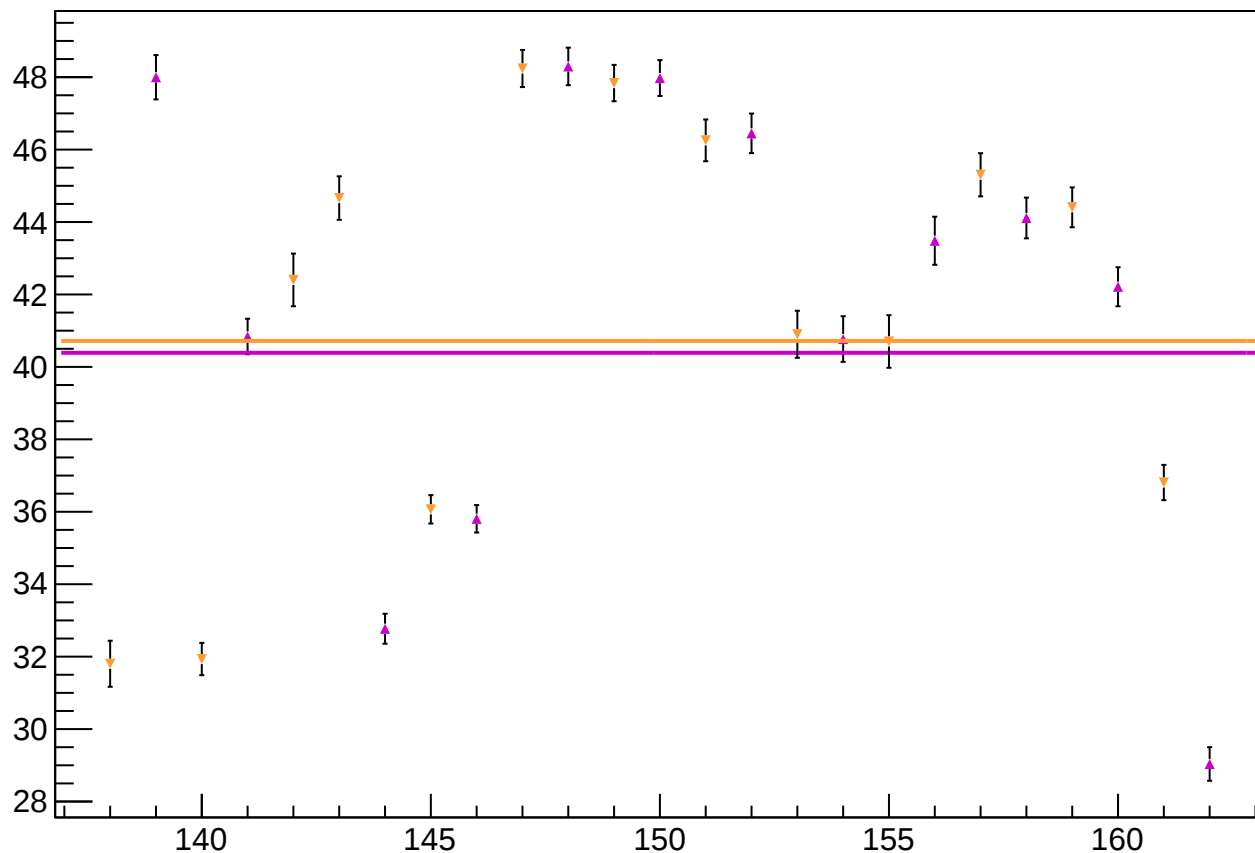
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.452+/-0.104  $\chi^2/\text{NDF}$ :1154.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.476+/-0.102  $\chi^2/\text{NDF}$ :1062.0/11

Left: 4.464+/-0.073  $\chi^2/\text{NDF}$ : 2216.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.476+/-0.102  $\chi^2/\text{NDF}$ :1062.0/11  
 Out: 4.452+/-0.104  $\chi^2/\text{NDF}$ :1154.4/12  
 All: 4.464+/-0.073  $\chi^2/\text{NDF}$ : 2216.4/24

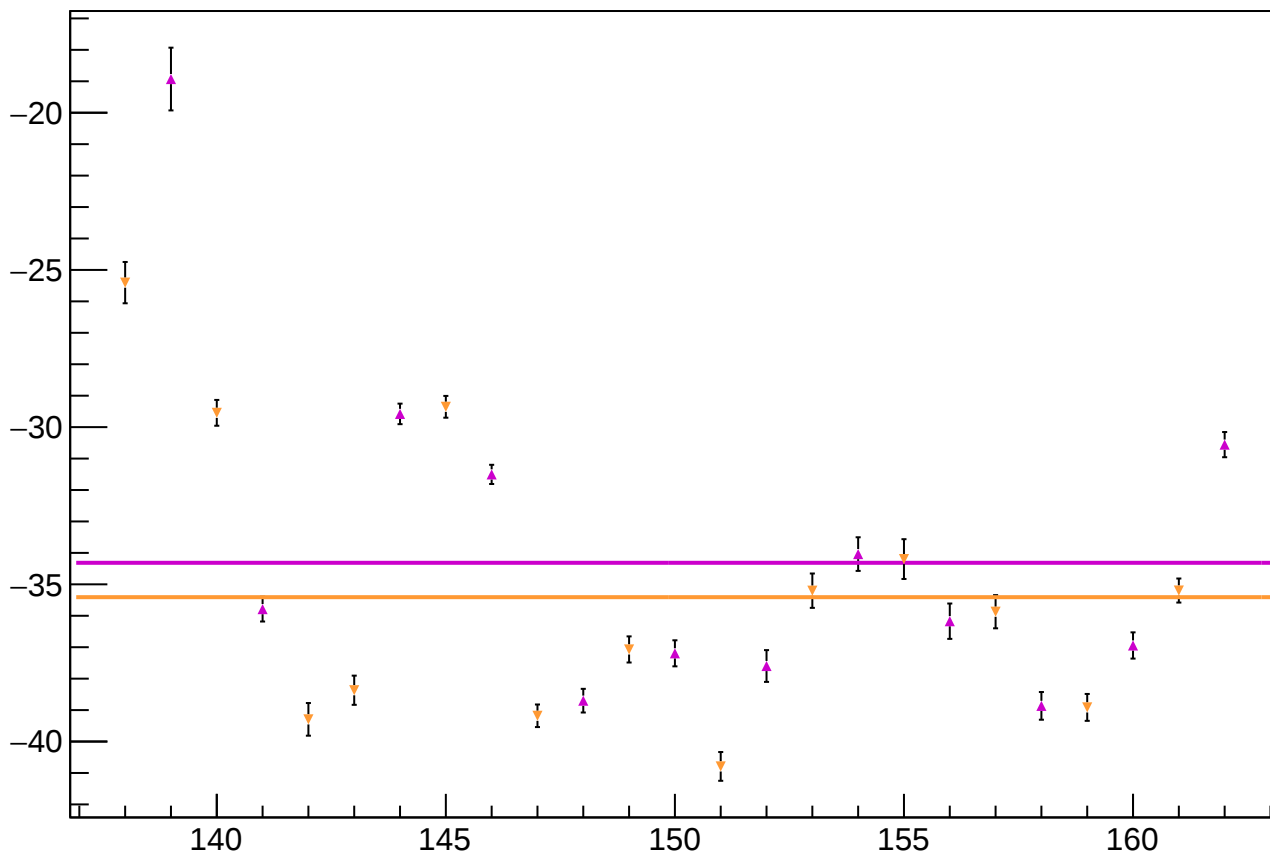
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 40.718 $\pm$ 0.151  $\chi^2$ /NDF:1451.8/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 40.389 $\pm$ 0.146  $\chi^2$ /NDF:1905.8/11

Left: 40.549 $\pm$ 0.105  $\chi^2$ /NDF: 3360.1/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 40.389 $\pm$ 0.146  $\chi^2$ /NDF:1905.8/11  
 Out: 40.718 $\pm$ 0.151  $\chi^2$ /NDF:1451.8/12  
 All: 40.549 $\pm$ 0.105  $\chi^2$ /NDF: 3360.1/24

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

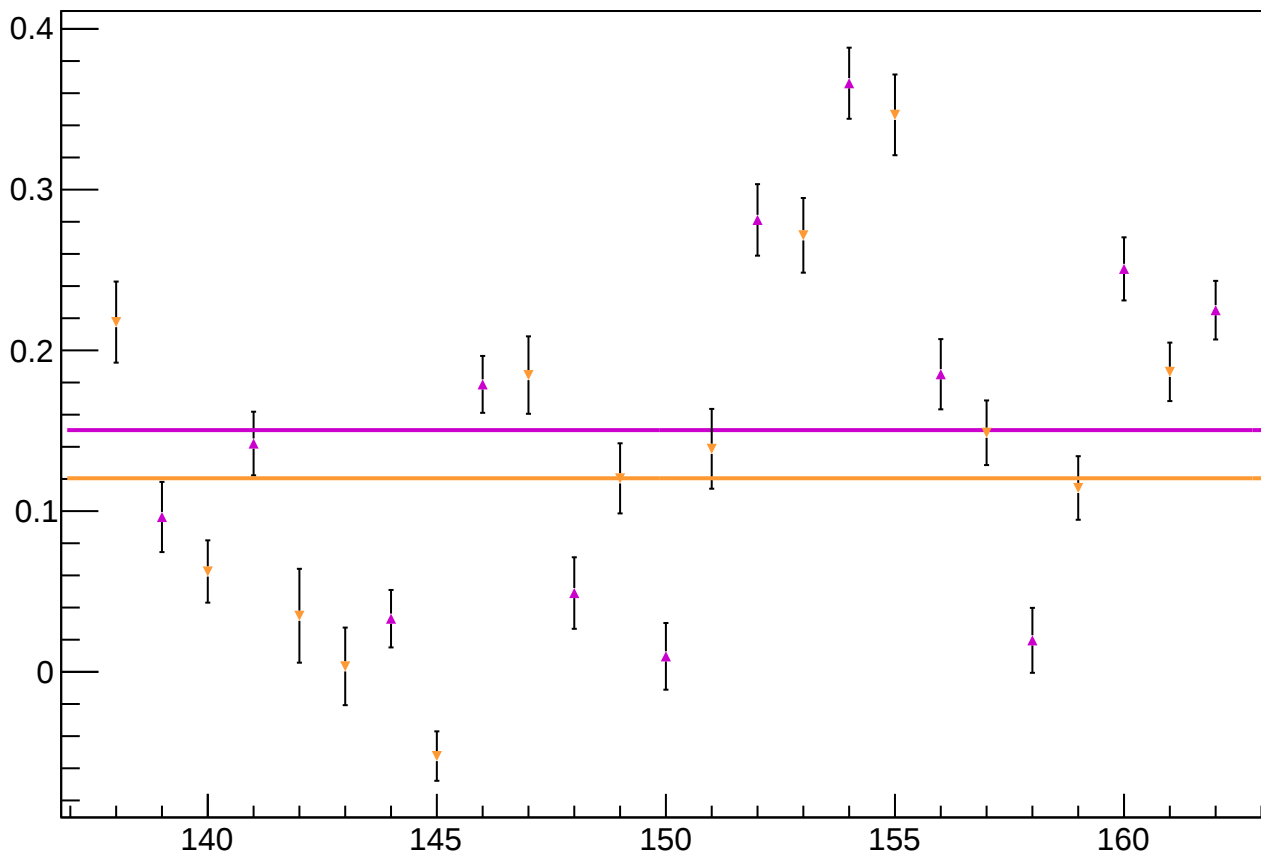


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.409+/-0.124  $\chi^2/\text{NDF}$ :1174.7/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.315+/-0.121  $\chi^2/\text{NDF}$ :1019.0/11

Left: -34.849+/-0.087  $\chi^2/\text{NDF}$ : 2233.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -34.315+/-0.121  $\chi^2/\text{NDF}$ :1019.0/11  
 Out: -35.409+/-0.124  $\chi^2/\text{NDF}$ :1174.7/12

All: -34.849+/-0.087  $\chi^2/\text{NDF}$ : 2233.5/24

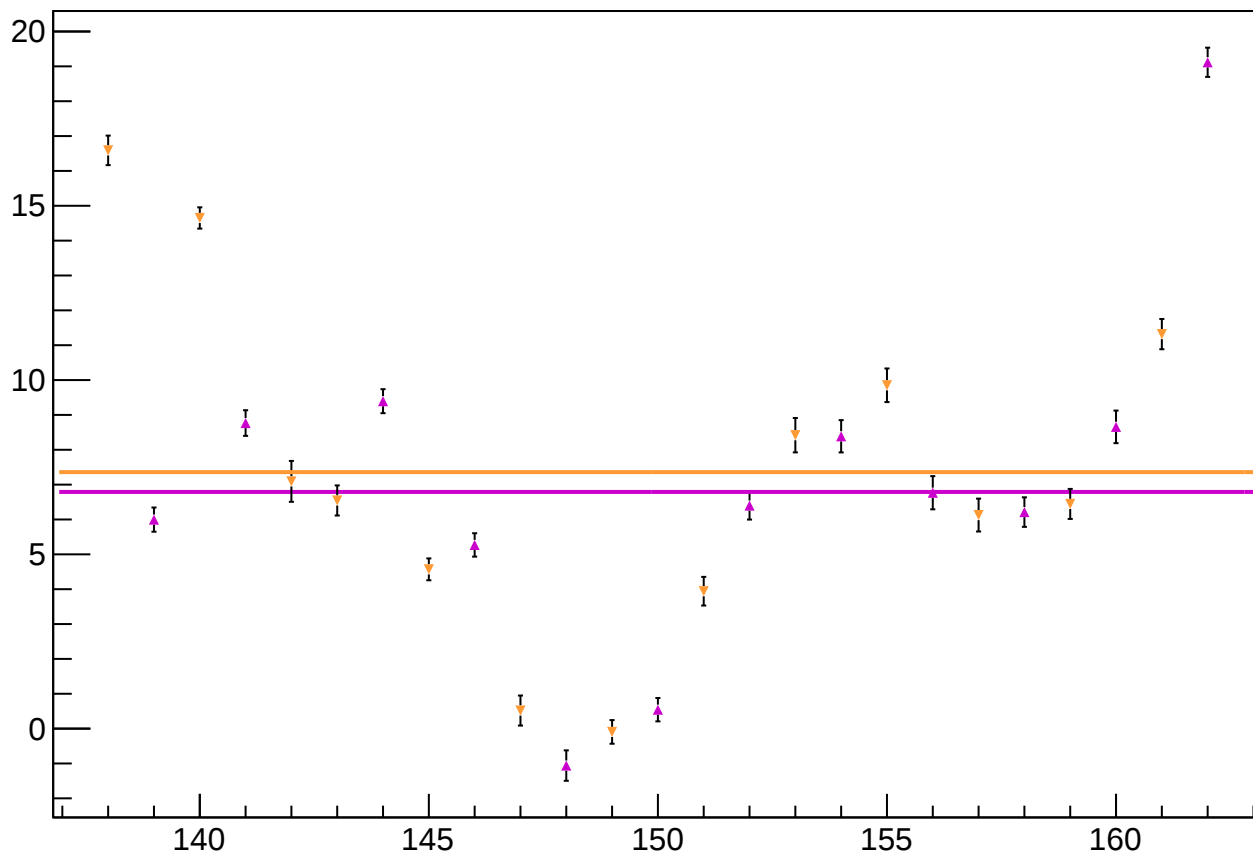
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.120+/-0.006  $\chi^2/\text{NDF}$ :328.5/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.150+/-0.006  $\chi^2/\text{NDF}$ :335.8/11

Left: 0.136+/-0.004  $\chi^2/\text{NDF}$ : 677.2/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.150+/-0.006  $\chi^2/\text{NDF}$ :335.8/11  
 Out: 0.120+/-0.006  $\chi^2/\text{NDF}$ :328.5/12  
 All: 0.136+/-0.004  $\chi^2/\text{NDF}$ : 677.2/24

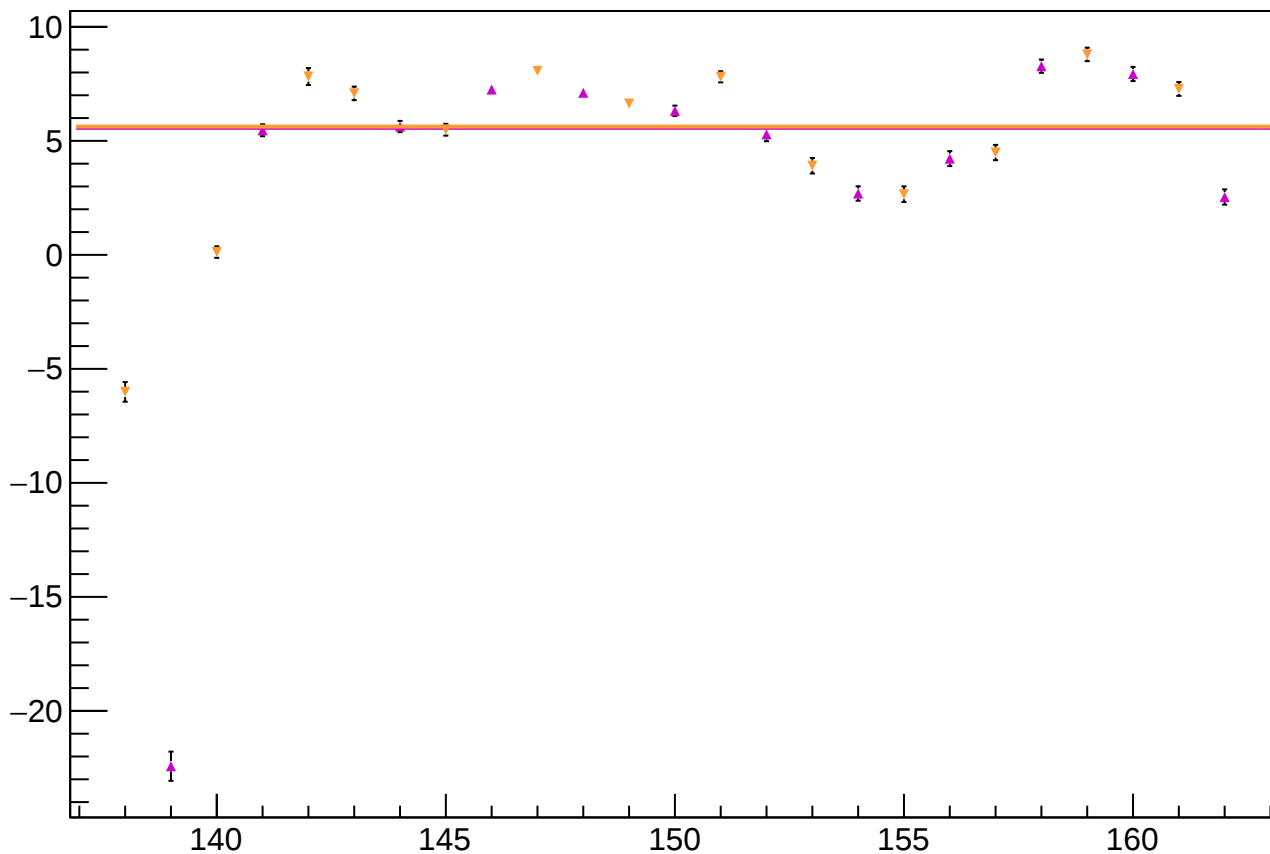
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.359+/-0.113  $\chi^2/\text{NDF}$ :2057.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.790+/-0.113  $\chi^2/\text{NDF}$ :1677.3/11

Left: 7.075+/-0.080  $\chi^2/\text{NDF}$ : 3747.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 6.790+/-0.113  $\chi^2/\text{NDF}$ :1677.3/11  
 Out: 7.359+/-0.113  $\chi^2/\text{NDF}$ :2057.6/12  
 All: 7.075+/-0.080  $\chi^2/\text{NDF}$ : 3747.6/24

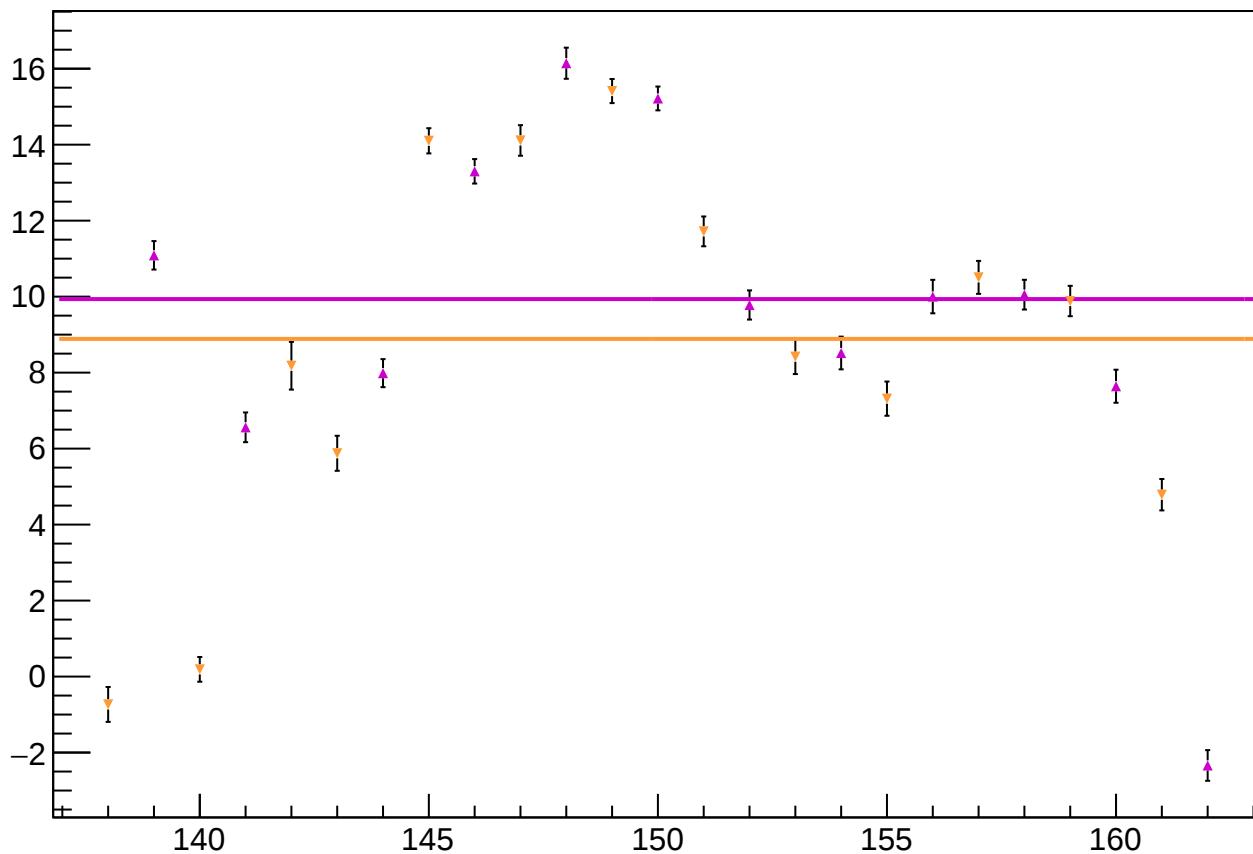
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.627+/-0.078  $\chi^2/\text{NDF}$ :1757.5/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.573+/-0.080  $\chi^2/\text{NDF}$ :2370.1/11

Left: 5.600+/-0.056  $\chi^2/\text{NDF}$ : 4127.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.573+/-0.080  $\chi^2/\text{NDF}$ :2370.1/11  
 Out: 5.627+/-0.078  $\chi^2/\text{NDF}$ :1757.5/12  
 All: 5.600+/-0.056  $\chi^2/\text{NDF}$ : 4127.8/24

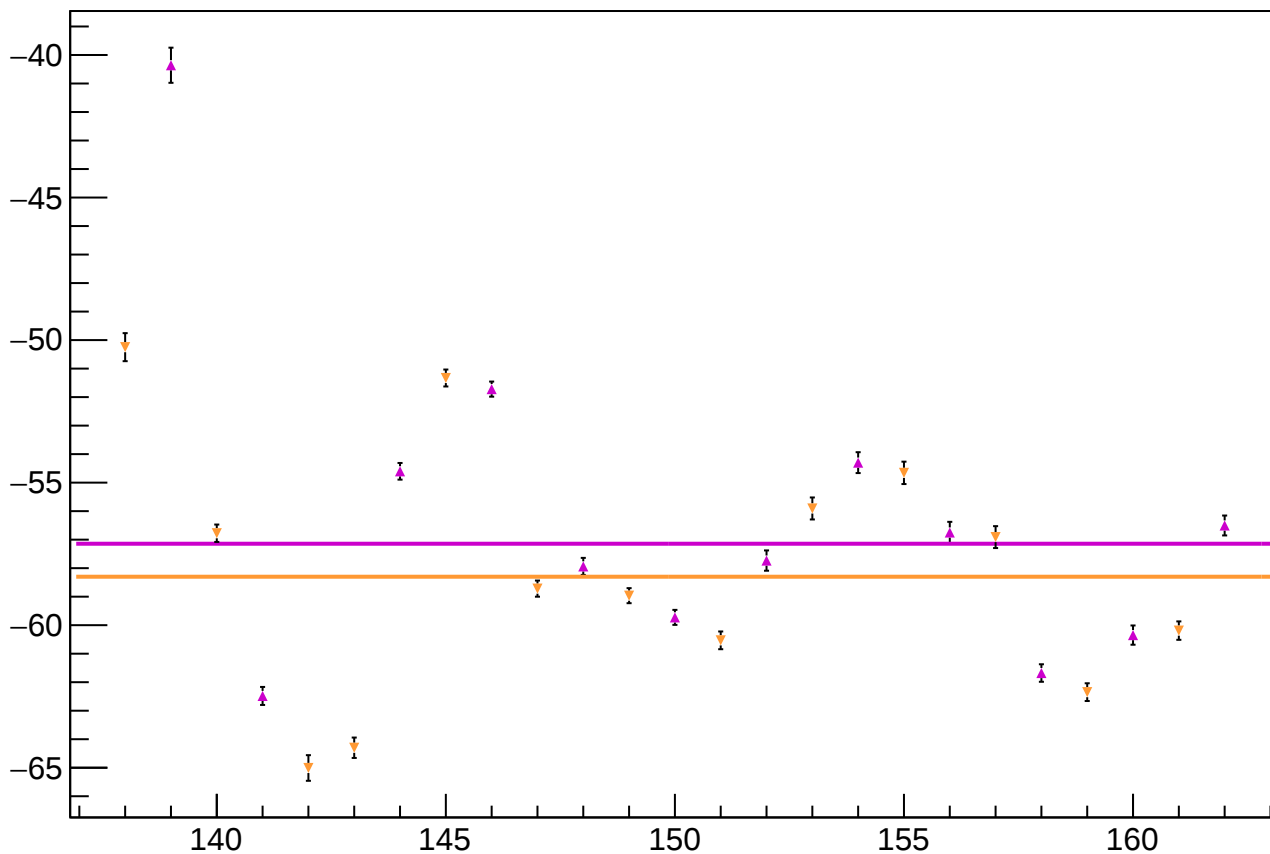
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.888+/-0.112  $\chi^2/\text{NDF}$ :2219.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.936+/-0.110  $\chi^2/\text{NDF}$ :1698.0/11

Left: 9.418+/-0.078  $\chi^2/\text{NDF}$ : 3962.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 9.936+/-0.110  $\chi^2/\text{NDF}$ :1698.0/11  
 Out: 8.888+/-0.112  $\chi^2/\text{NDF}$ :2219.9/12  
 All: 9.418+/-0.078  $\chi^2/\text{NDF}$ : 3962.4/24

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

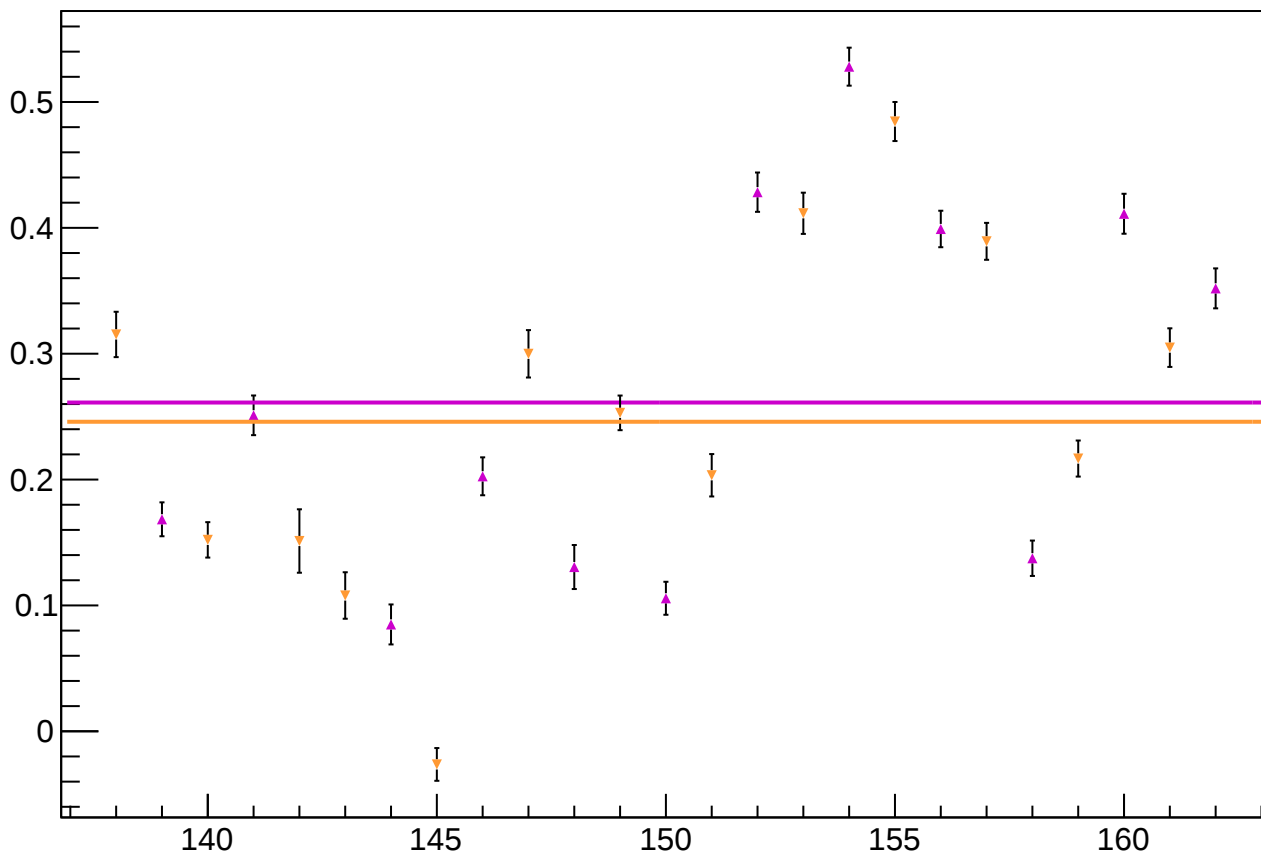


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.300+/-0.093  $\chi^2/\text{NDF}$ :1748.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -57.143+/-0.094  $\chi^2/\text{NDF}$ :2000.9/11

Left: -57.726+/-0.066  $\chi^2/\text{NDF}$ : 3826.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -57.143+/-0.094  $\chi^2/\text{NDF}$ :2000.9/11  
 Out: -58.300+/-0.093  $\chi^2/\text{NDF}$ :1748.6/12

All: -57.726+/-0.066  $\chi^2/\text{NDF}$ : 3826.6/24

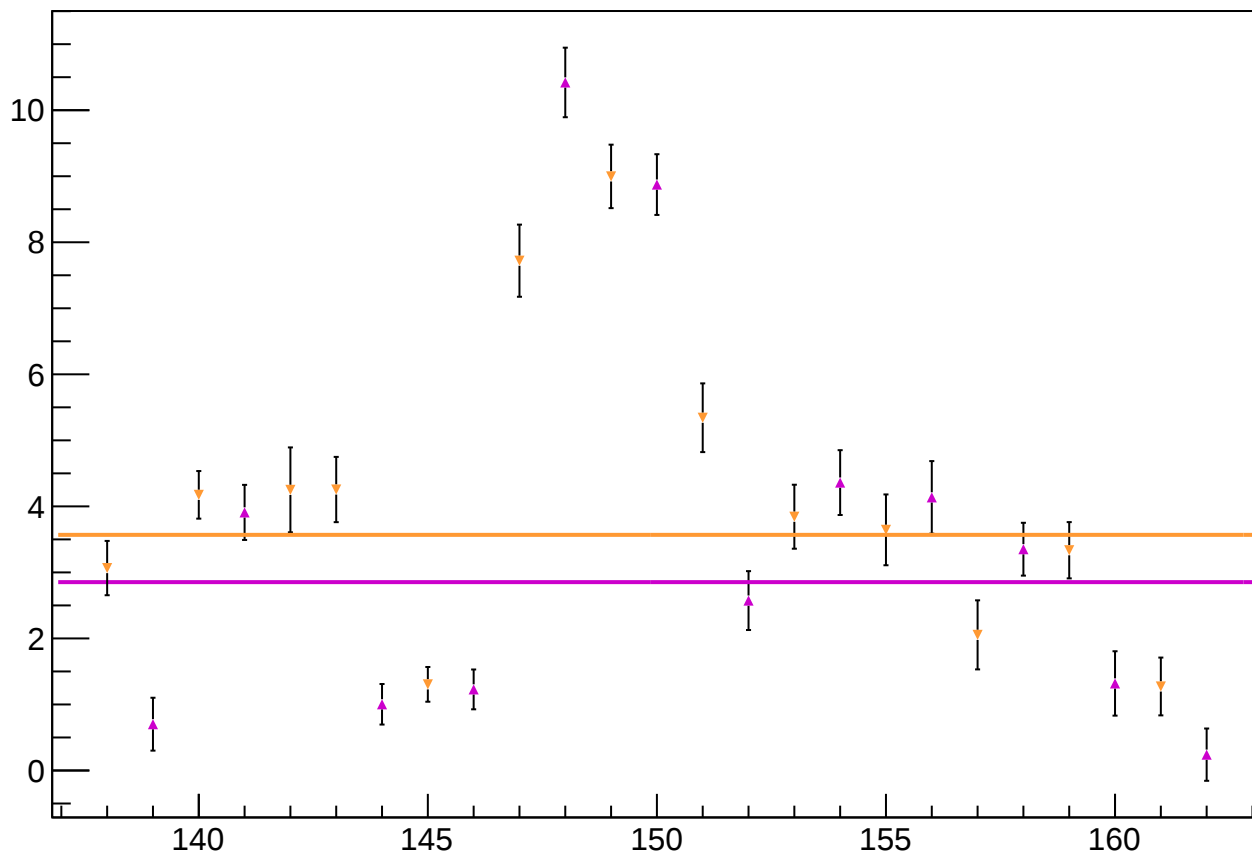
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.246 $\pm$ 0.004  $\chi^2$ /NDF:1035.0/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.261 $\pm$ 0.004  $\chi^2$ /NDF:1100.0/11

Left: 0.254 $\pm$ 0.003  $\chi^2$ /NDF: 2141.2/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.261 $\pm$ 0.004  $\chi^2$ /NDF:1100.0/11  
 Out: 0.246 $\pm$ 0.004  $\chi^2$ /NDF:1035.0/12  
 All: 0.254 $\pm$ 0.003  $\chi^2$ /NDF: 2141.2/24

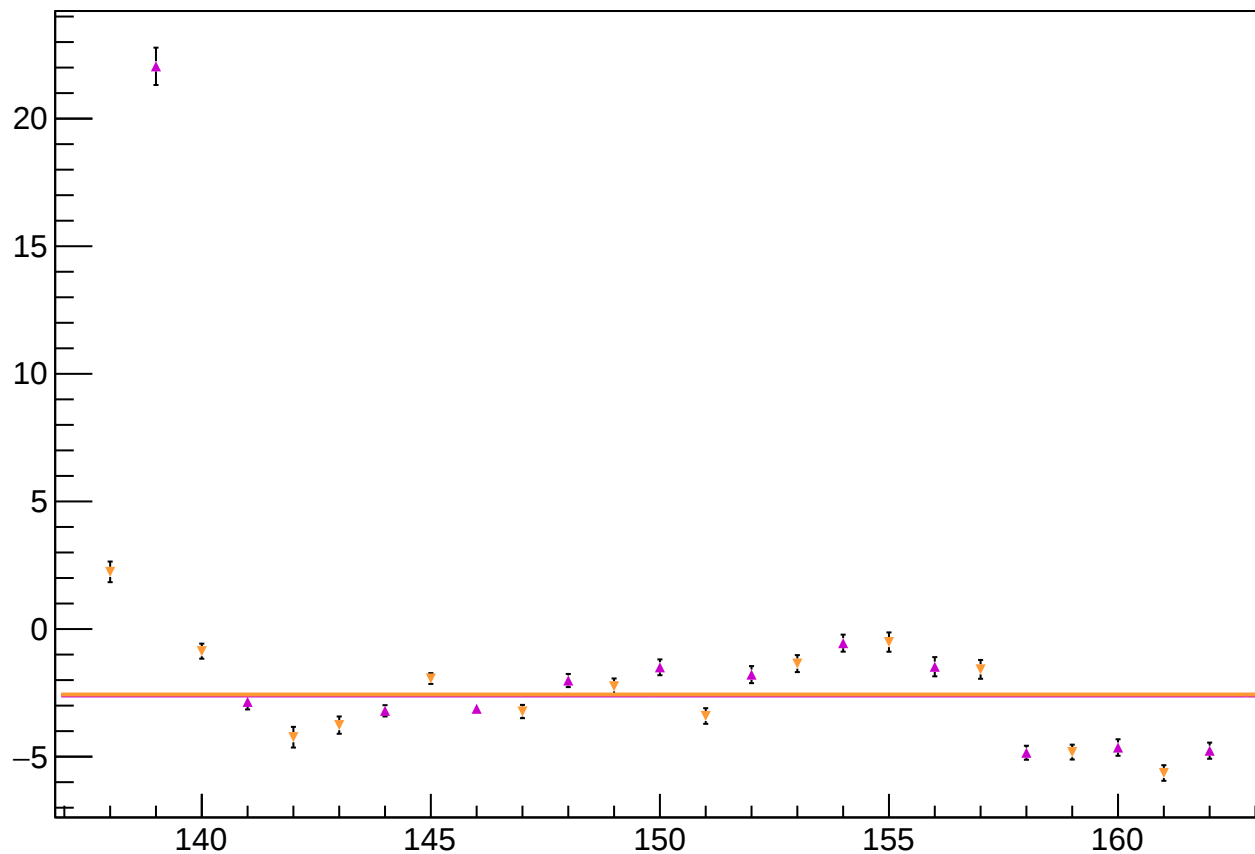
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.569+/-0.121  $\chi^2/\text{NDF}$ :315.0/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.853+/-0.118  $\chi^2/\text{NDF}$ :548.8/11

Left: 3.203+/-0.085  $\chi^2/\text{NDF}$ : 881.6/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.853+/-0.118  $\chi^2/\text{NDF}$ :548.8/11  
 Out: 3.569+/-0.121  $\chi^2/\text{NDF}$ :315.0/12  
 All: 3.203+/-0.085  $\chi^2/\text{NDF}$ : 881.6/24

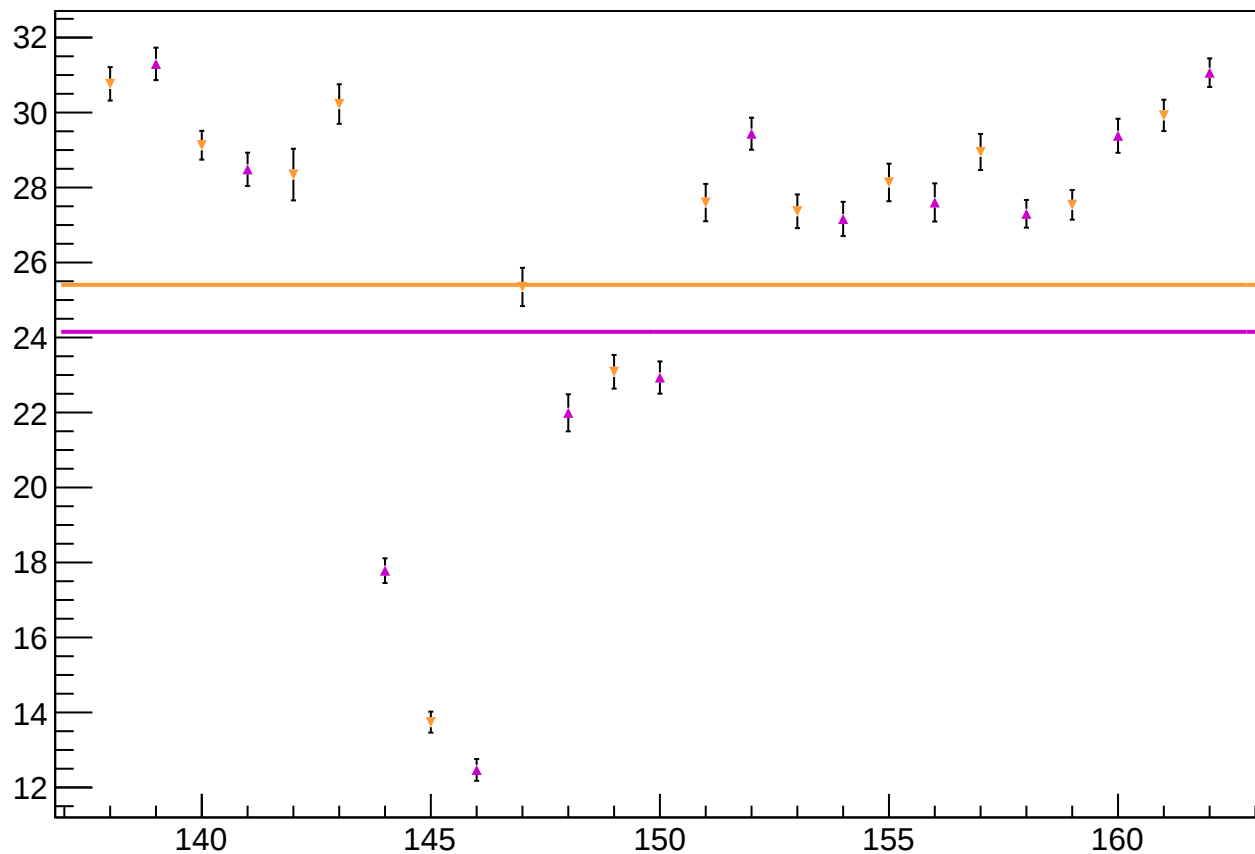
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.565+/-0.086  $\chi^2/\text{NDF}$ :438.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.602+/-0.083  $\chi^2/\text{NDF}$ :1376.4/11

Left: -2.584+/-0.060  $\chi^2/\text{NDF}$ : 1815.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.602+/-0.083  $\chi^2/\text{NDF}$ :1376.4/11  
 Out: -2.565+/-0.086  $\chi^2/\text{NDF}$ :438.9/12  
 All: -2.584+/-0.060  $\chi^2/\text{NDF}$ : 1815.4/24

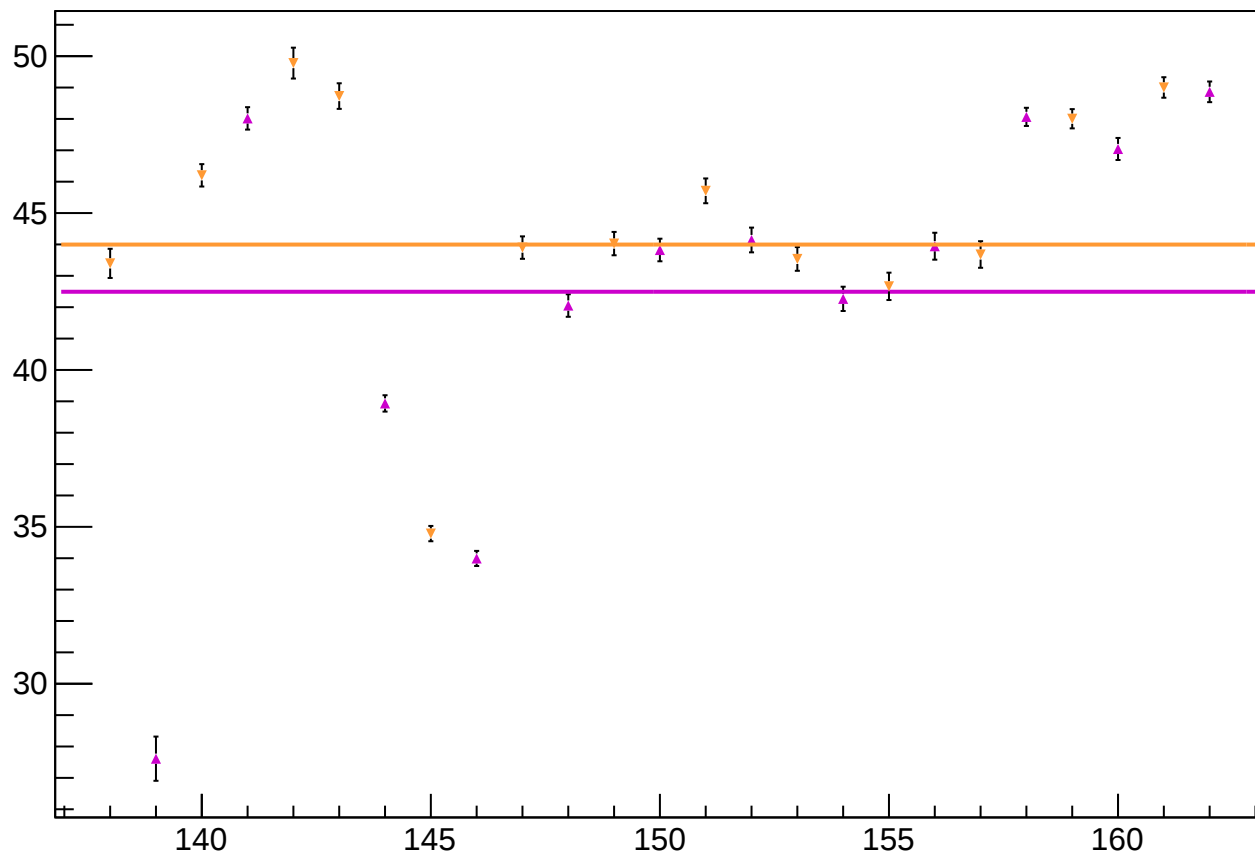
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 25.404+/-0.121  $\chi^2/\text{NDF}$ :2366.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 24.152+/-0.116  $\chi^2/\text{NDF}$ :3169.6/11

Left: 24.753+/-0.084  $\chi^2/\text{NDF}$ : 5591.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 24.152+/-0.116  $\chi^2/\text{NDF}$ :3169.6/11  
 Out: 25.404+/-0.121  $\chi^2/\text{NDF}$ :2366.3/12  
 All: 24.753+/-0.084  $\chi^2/\text{NDF}$ : 5591.8/24

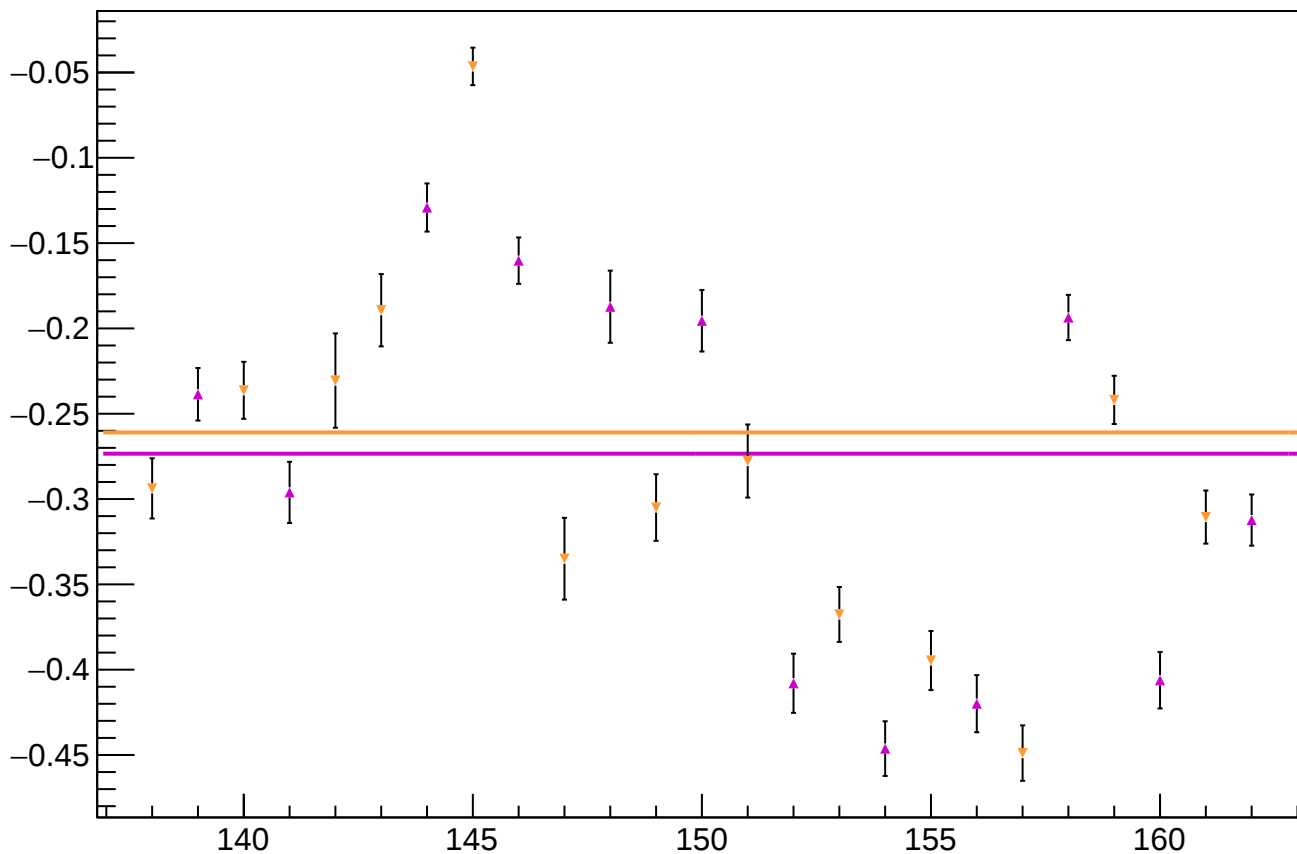
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 43.996+/-0.101  $\chi^2/\text{NDF}$ :2173.8/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 42.492+/-0.098  $\chi^2/\text{NDF}$ :3076.5/11

Left: 43.220+/-0.070  $\chi^2/\text{NDF}$ : 5365.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 42.492+/-0.098  $\chi^2/\text{NDF}$ :3076.5/11  
 Out: 43.996+/-0.101  $\chi^2/\text{NDF}$ :2173.8/12  
 All: 43.220+/-0.070  $\chi^2/\text{NDF}$ : 5365.4/24

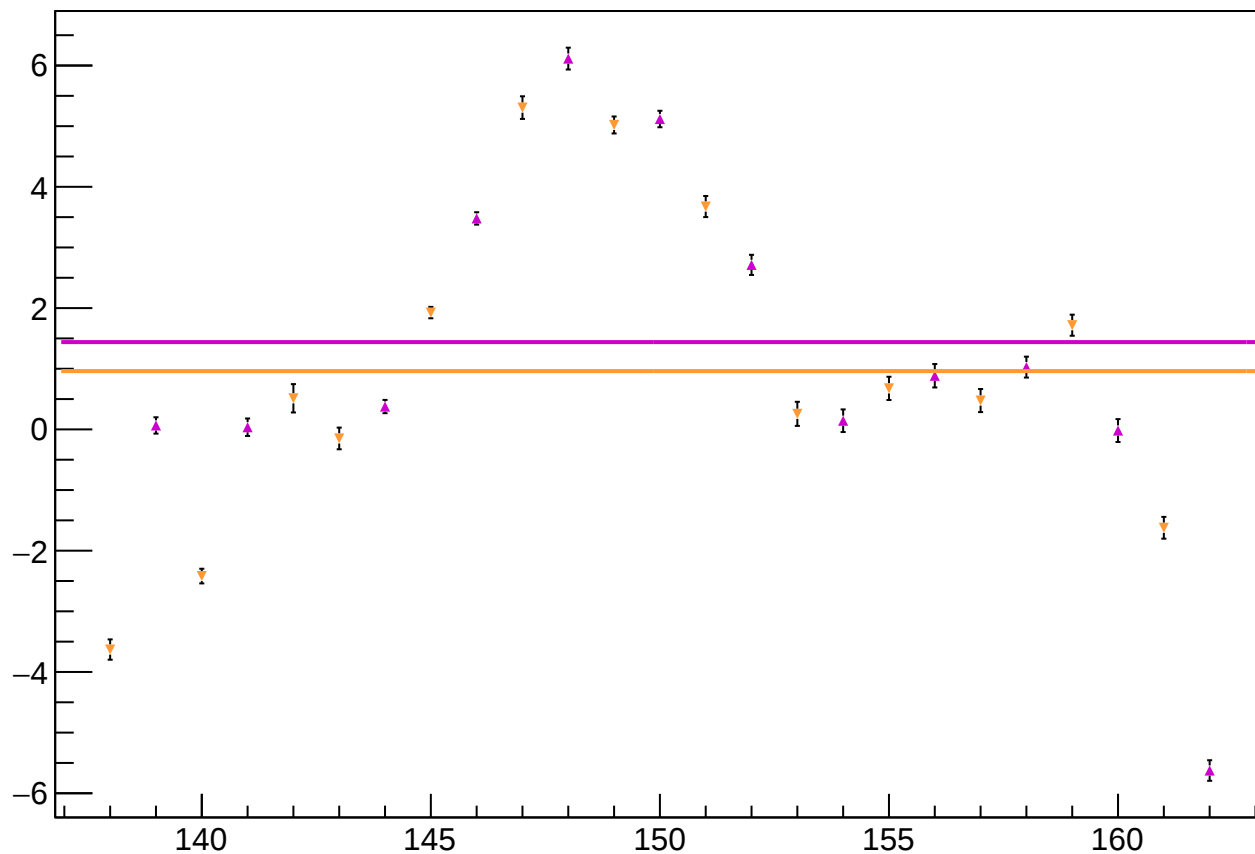
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.261+/-0.005  $\chi^2/\text{NDF}$ : 664.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.273+/-0.005  $\chi^2/\text{NDF}$ : 576.4/11

Left: -0.267+/-0.003  $\chi^2/\text{NDF}$ : 1244.2/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.273+/-0.005  $\chi^2/\text{NDF}$ : 576.4/11  
 Out: -0.261+/-0.005  $\chi^2/\text{NDF}$ : 664.2/12  
 All: -0.267+/-0.003  $\chi^2/\text{NDF}$ : 1244.2/24

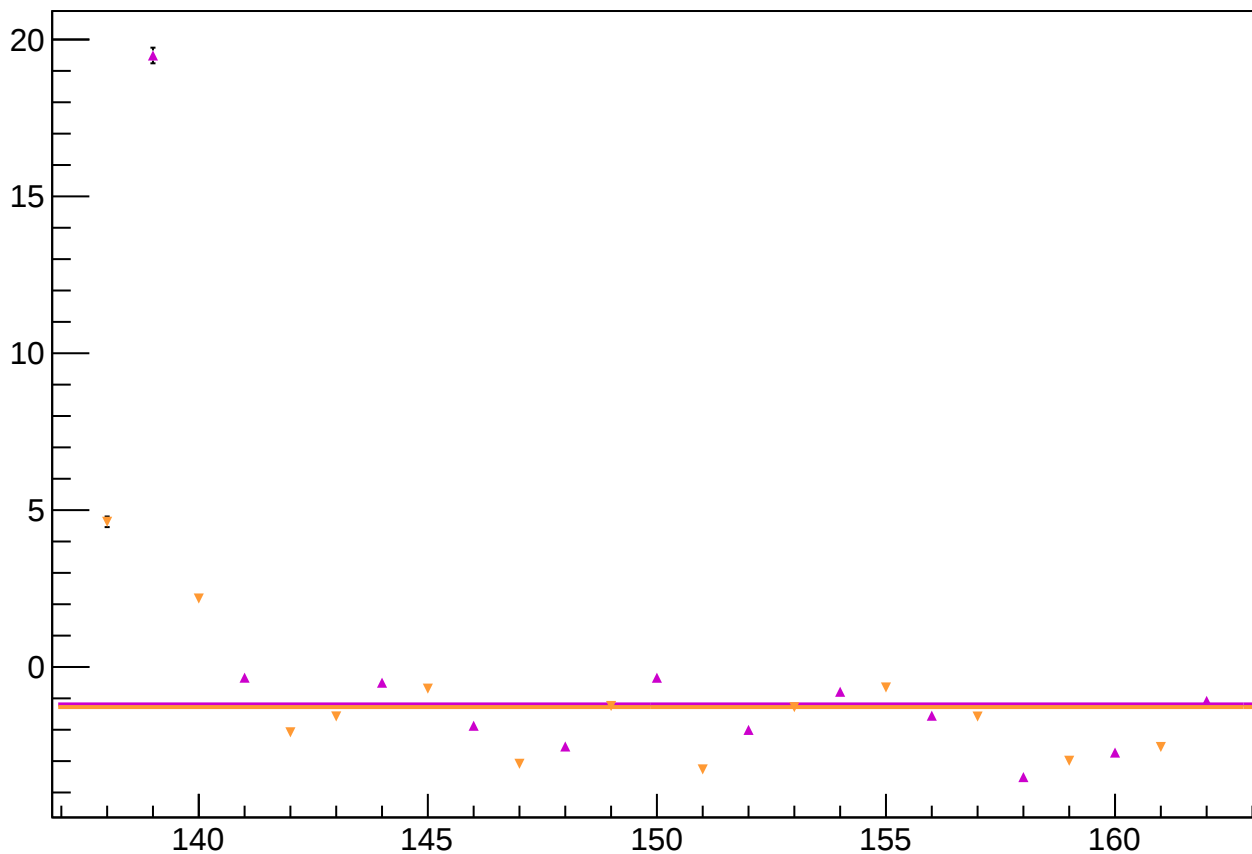
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.961+/-0.044  $\chi^2/\text{NDF}$ :3551.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.439+/-0.042  $\chi^2/\text{NDF}$ :4013.9/11

Left: 1.208+/-0.030  $\chi^2/\text{NDF}$ : 7626.9/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.439+/-0.042  $\chi^2/\text{NDF}$ :4013.9/11  
 Out: 0.961+/-0.044  $\chi^2/\text{NDF}$ :3551.4/12  
 All: 1.208+/-0.030  $\chi^2/\text{NDF}$ : 7626.9/24

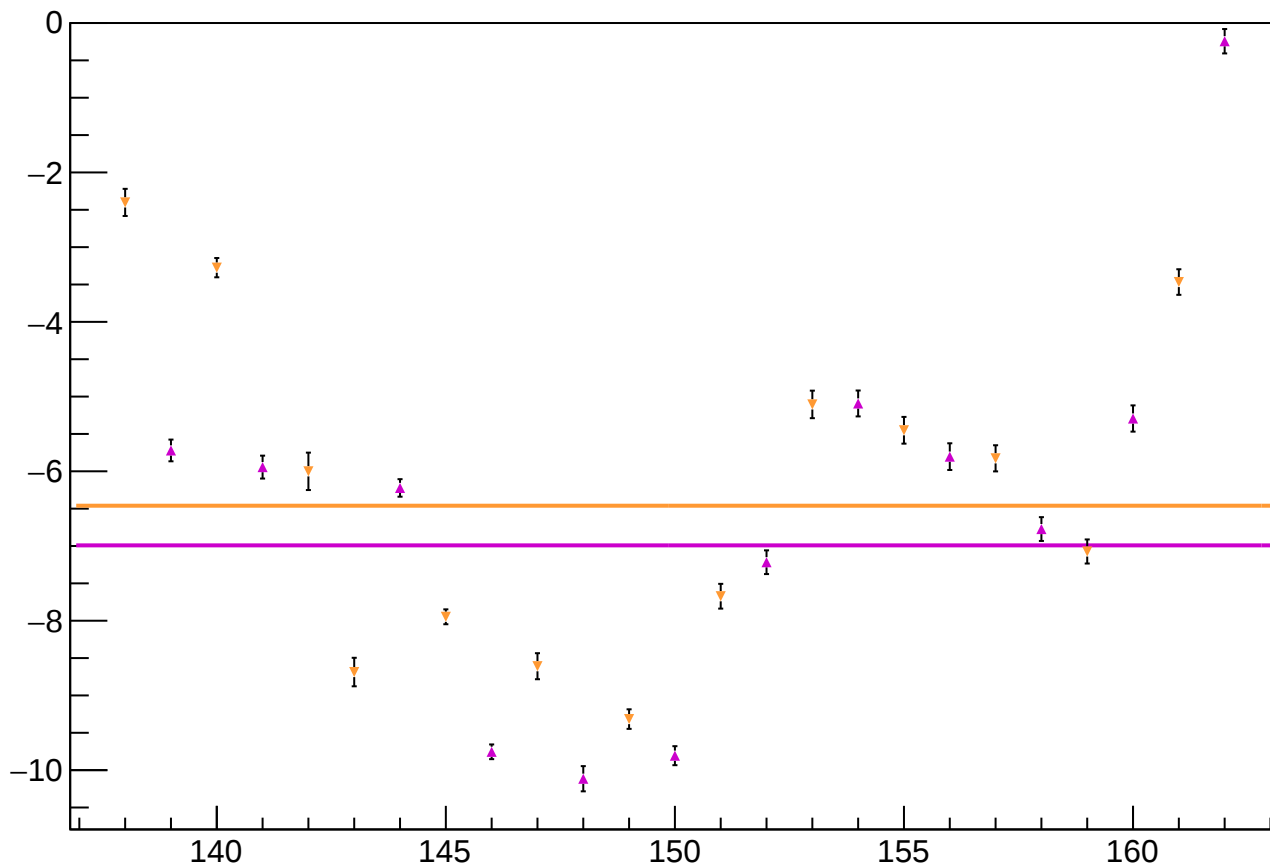
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.278+/-0.031  $\chi^2/\text{NDF}$ : 3624.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.193+/-0.030  $\chi^2/\text{NDF}$ : 8044.9/11

Left: -1.234+/-0.021  $\chi^2/\text{NDF}$ : 11673.7/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.193+/-0.030  $\chi^2/\text{NDF}$ : 8044.9/11  
 Out: -1.278+/-0.031  $\chi^2/\text{NDF}$ : 3624.9/12  
 All: -1.234+/-0.021  $\chi^2/\text{NDF}$ : 11673.7/24

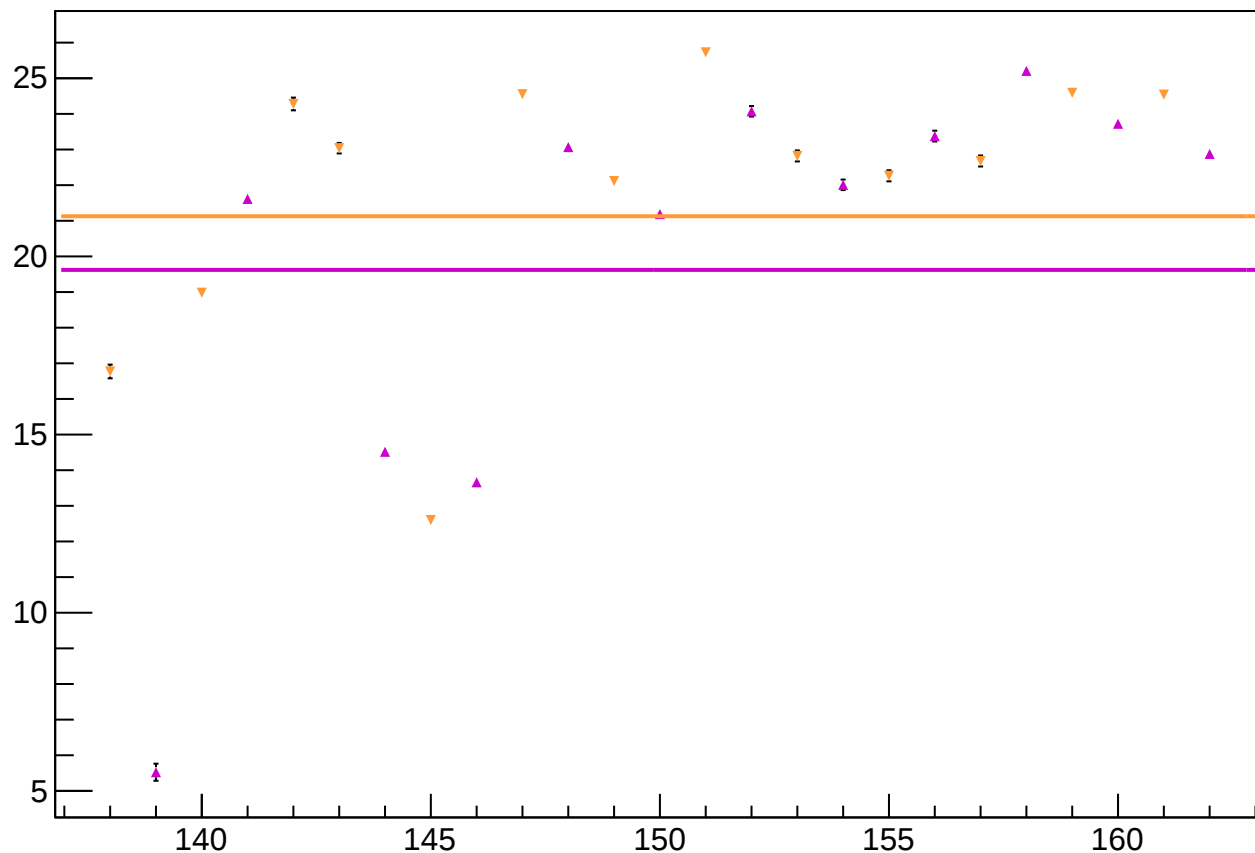
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.461+/-0.044  $\chi^2/\text{NDF}$ :2572.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.991+/-0.042  $\chi^2/\text{NDF}$ :3755.5/11

Left: -6.738+/-0.030  $\chi^2/\text{NDF}$ : 6405.4/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.991+/-0.042  $\chi^2/\text{NDF}$ :3755.5/11  
 Out: -6.461+/-0.044  $\chi^2/\text{NDF}$ :2572.3/12  
 All: -6.738+/-0.030  $\chi^2/\text{NDF}$ : 6405.4/24

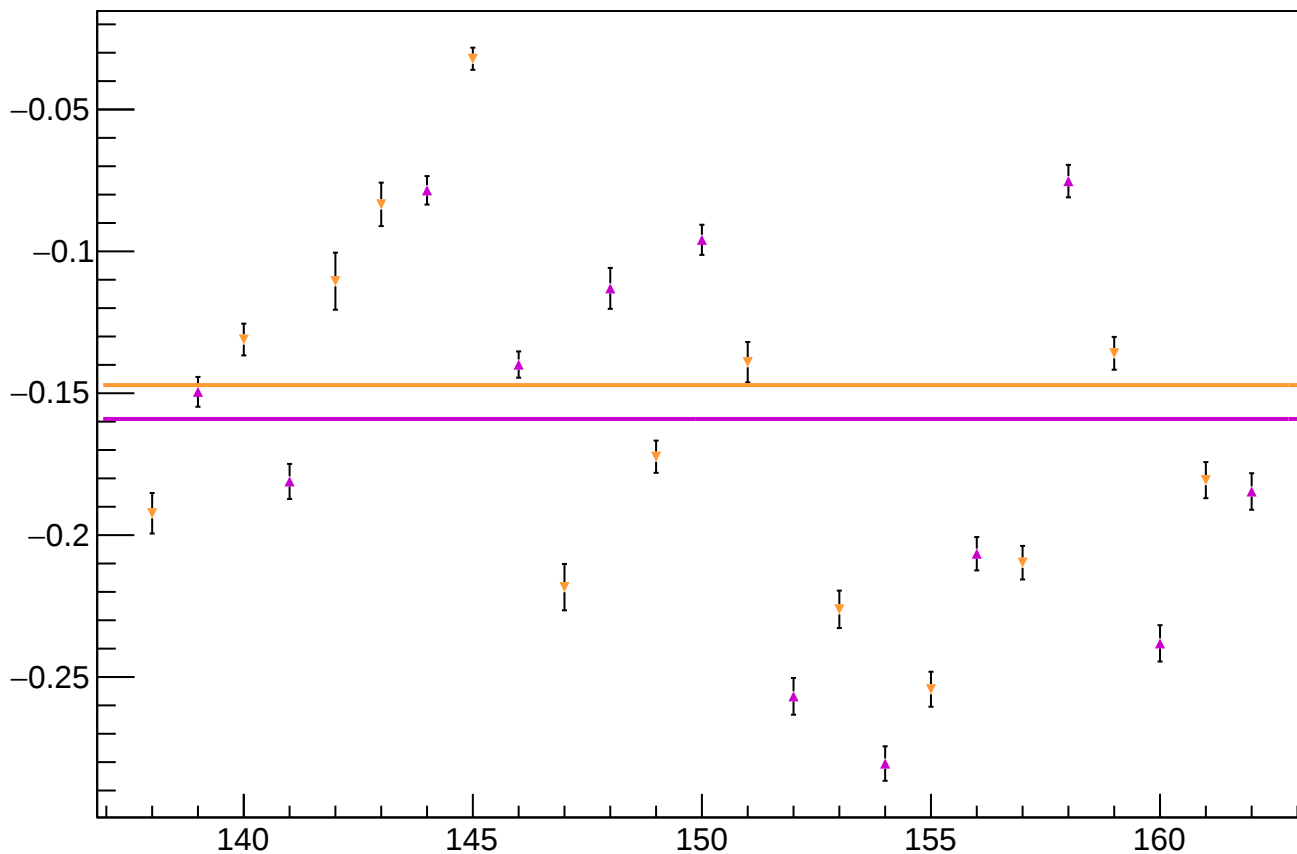
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 21.127+/-0.036  $\chi^2/\text{NDF}$ :14404.7/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 19.622+/-0.035  $\chi^2/\text{NDF}$ :18181.3/11

Left: 20.350+/-0.025  $\chi^2/\text{NDF}$ : 33467.2/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 19.622+/-0.035  $\chi^2/\text{NDF}$ :18181.3/11  
 Out: 21.127+/-0.036  $\chi^2/\text{NDF}$ :14404.7/12  
 All: 20.350+/-0.025  $\chi^2/\text{NDF}$ : 33467.2/24

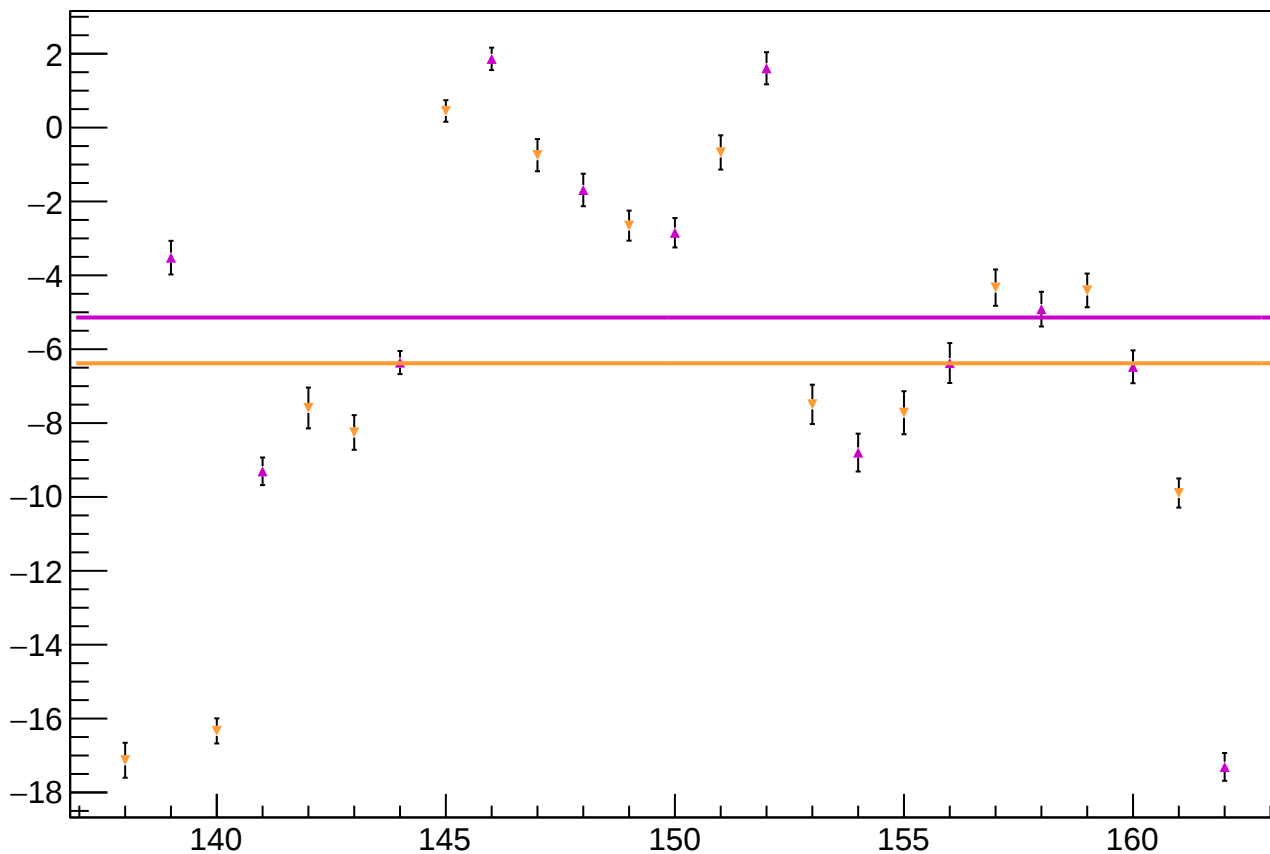
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.147 $\pm$ 0.002  $\chi^2$ /NDF:1682.9/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.159 $\pm$ 0.002  $\chi^2$ /NDF:1547.5/11

Left: -0.153 $\pm$ 0.001  $\chi^2$ /NDF: 3255.5/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.159 $\pm$ 0.002  $\chi^2$ /NDF:1547.5/11  
 Out: -0.147 $\pm$ 0.002  $\chi^2$ /NDF:1682.9/12  
 All: -0.153 $\pm$ 0.001  $\chi^2$ /NDF: 3255.5/24

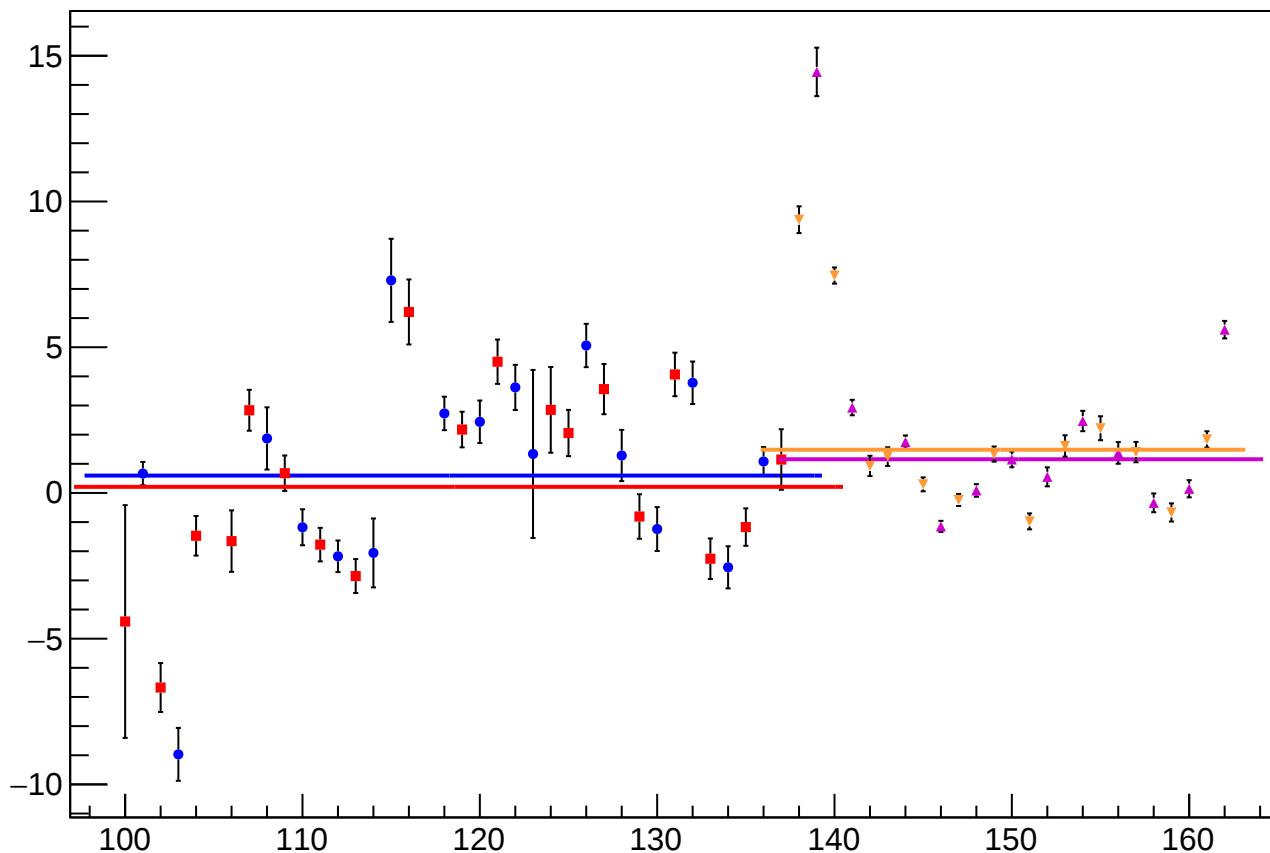
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.381+/-0.119  $\chi^2/\text{NDF}$ :2467.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.142+/-0.117  $\chi^2/\text{NDF}$ :2129.0/11

Left: -5.748+/-0.083  $\chi^2/\text{NDF}$ : 4651.9/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.142+/-0.117  $\chi^2/\text{NDF}$ :2129.0/11  
 Out: -6.381+/-0.119  $\chi^2/\text{NDF}$ :2467.6/12  
 All: -5.748+/-0.083  $\chi^2/\text{NDF}$ : 4651.9/24

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.596 \pm 0.169$   $\chi^2/\text{NDF}$ : 291.2/16

Left Out:  $1.483 \pm 0.082$   $\chi^2/\text{NDF}$ : 994.0/12

Right Out:  $0.209 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.5/18

Left In:  $1.156 \pm 0.080$   $\chi^2/\text{NDF}$ : 748.2/11

Left:  $1.316 \pm 0.057$   $\chi^2/\text{NDF}$ : 1750.3/24

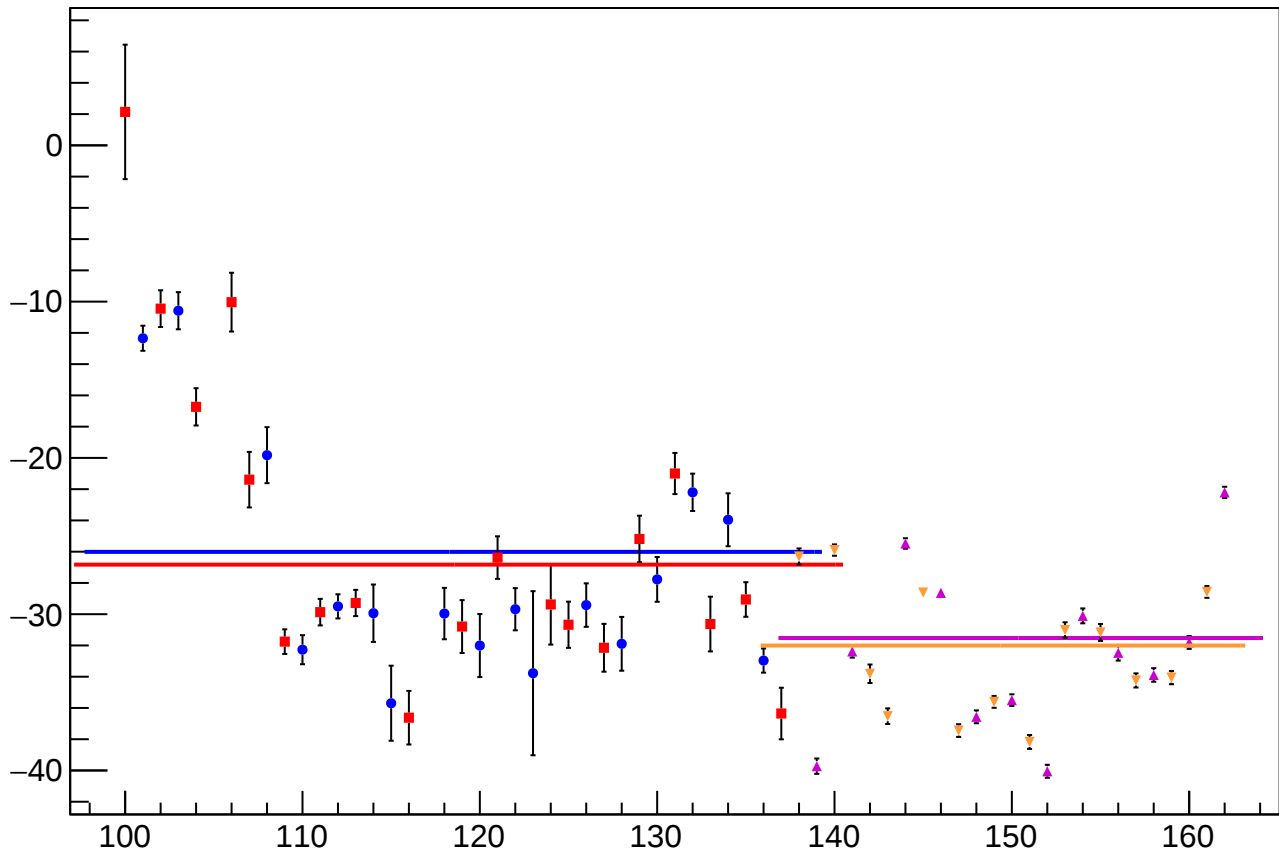
Right:  $0.409 \pm 0.121$   $\chi^2/\text{NDF}$ : 567.2/35

In:  $1.053 \pm 0.072$   $\chi^2/\text{NDF}$ : 1048.3/28

Out:  $1.254 \pm 0.074$   $\chi^2/\text{NDF}$ : 1311.1/31

All:  $1.151 \pm 0.052$   $\chi^2/\text{NDF}$ : 2363.2/60

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-26.012 \pm 0.300$   $\chi^2/\text{NDF}$ : 692.9/16

Left Out:  $-32.006 \pm 0.118$   $\chi^2/\text{NDF}$ : 1218.3/12

Right Out:  $-26.829 \pm 0.297$   $\chi^2/\text{NDF}$ : 581.6/18

Left In:  $-31.524 \pm 0.114$   $\chi^2/\text{NDF}$ : 2092.2/11

Left:  $-31.757 \pm 0.082$   $\chi^2/\text{NDF}$ : 3319.1/24

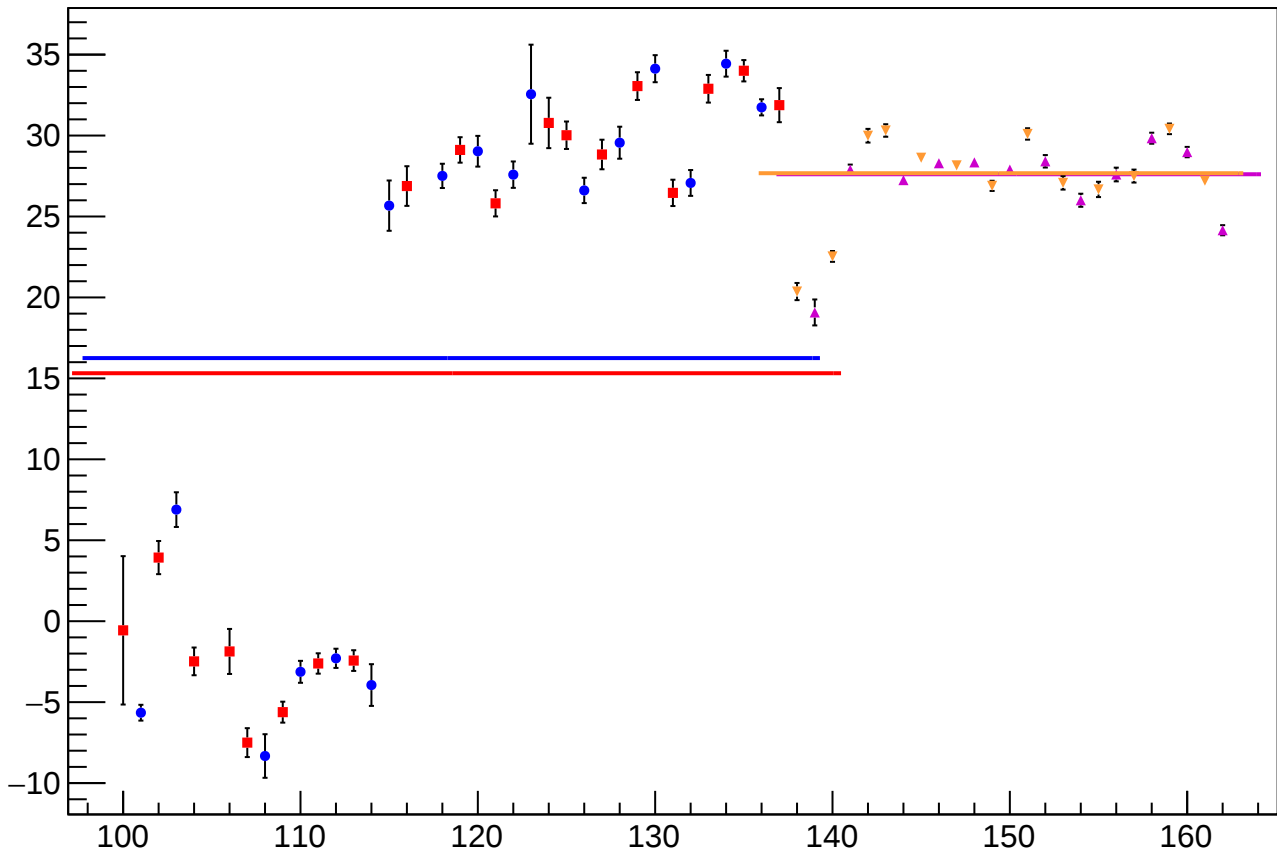
Right:  $-26.423 \pm 0.211$   $\chi^2/\text{NDF}$ : 1278.3/35

In:  $-30.828 \pm 0.106$   $\chi^2/\text{NDF}$ : 3081.0/28

Out:  $-31.302 \pm 0.110$   $\chi^2/\text{NDF}$ : 2061.5/31

All:  $-31.058 \pm 0.076$   $\chi^2/\text{NDF}$ : 5152.1/60

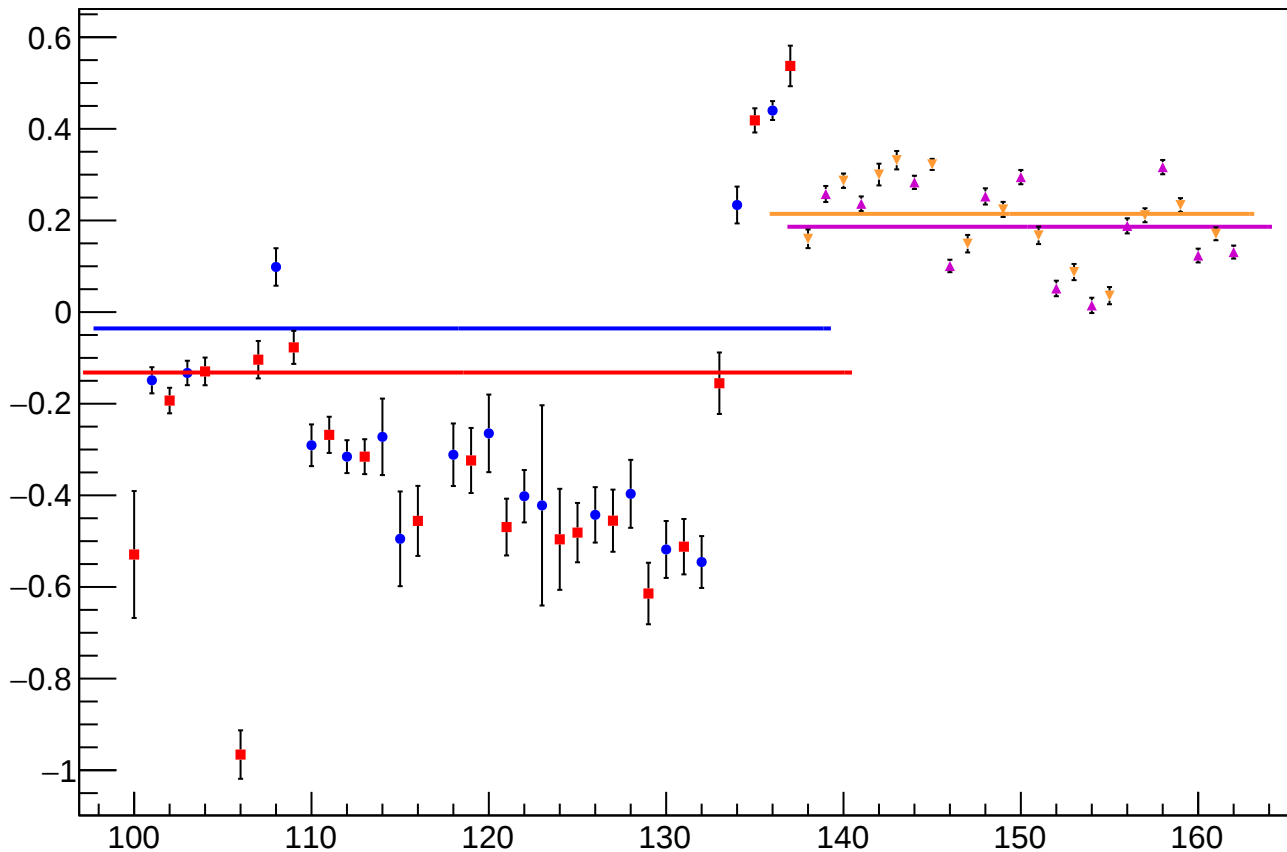
reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.253 $\pm$ 0.191  $\chi^2$ /NDF: 7611.3/16  
 Left Out: 27.673 $\pm$ 0.097  $\chi^2$ /NDF:650.9/12  
 Right Out: 15.318 $\pm$ 0.197  $\chi^2$ /NDF: 7280.1/18  
 Left In: 27.609 $\pm$ 0.095  $\chi^2$ /NDF:334.5/11

Left: 27.640 $\pm$ 0.068  $\chi^2$ /NDF: 985.5/24  
 Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14903.0/35  
 In: 25.370 $\pm$ 0.085  $\chi^2$ /NDF:10783.0/28  
 Out: 25.251 $\pm$ 0.087  $\chi^2$ /NDF:11093.5/31  
 All: 25.312 $\pm$ 0.061  $\chi^2$ /NDF: 21877.4/60

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.036 \pm 0.010$   $\chi^2/\text{NDF}$ : 1014.5/16

Left Out:  $0.214 \pm 0.005$   $\chi^2/\text{NDF}$ : 325.6/12

Right Out:  $-0.132 \pm 0.010$   $\chi^2/\text{NDF}$ : 1171.3/18

Left In:  $0.186 \pm 0.005$   $\chi^2/\text{NDF}$ : 443.3/11

Left:  $0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 787.7/24

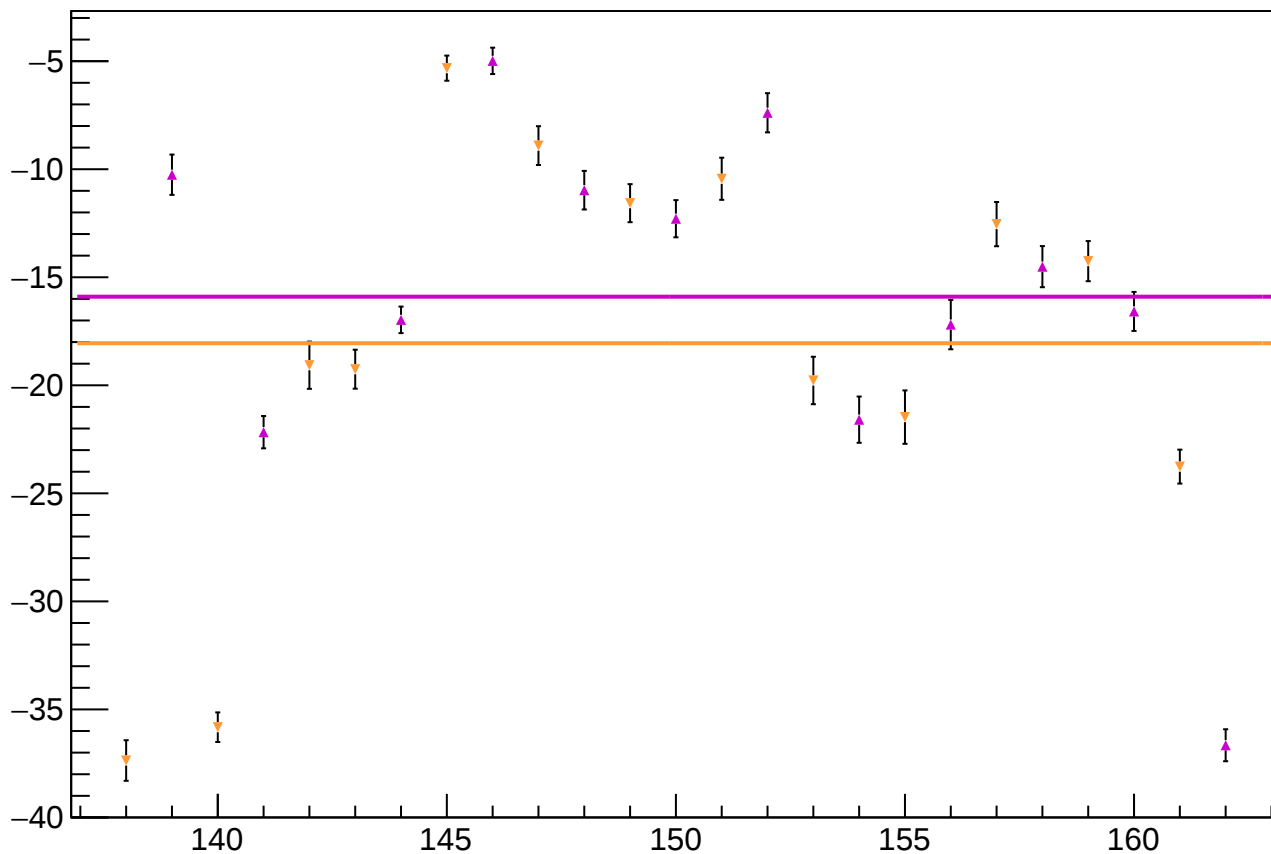
Right:  $-0.084 \pm 0.007$   $\chi^2/\text{NDF}$ : 2229.1/35

In:  $0.150 \pm 0.004$   $\chi^2/\text{NDF}$ : 1846.1/28

Out:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 2427.6/31

All:  $0.153 \pm 0.003$   $\chi^2/\text{NDF}$ : 4274.7/60

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -18.053+/-0.242  $\chi^2/\text{NDF}$ :1905.6/12

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

Left In: -15.899+/-0.236  $\chi^2/\text{NDF}$ :1383.6/11

Left: -16.951+/-0.169  $\chi^2/\text{NDF}$ : 3329.7/24

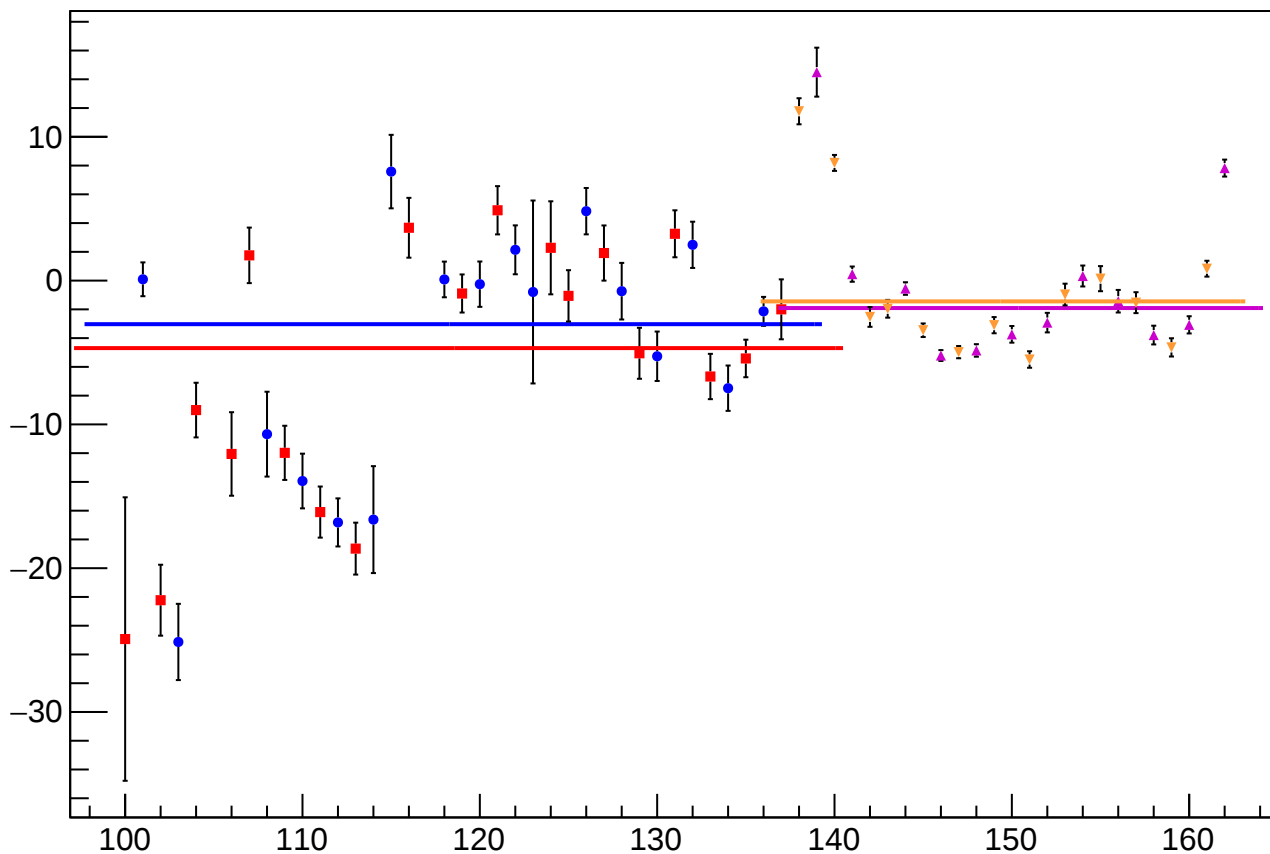
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.899+/-0.236  $\chi^2/\text{NDF}$ :1383.6/11

Out: -18.053+/-0.242  $\chi^2/\text{NDF}$ :1905.6/12

All: -16.951+/-0.169  $\chi^2/\text{NDF}$ : 3329.7/24

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.030 \pm 0.408$   $\chi^2/\text{NDF}: 280.8/16$

Left Out:  $-1.445 \pm 0.166$   $\chi^2/\text{NDF}: 707.8/12$

Right Out:  $-4.694 \pm 0.427$   $\chi^2/\text{NDF}: 298.3/18$

Left In:  $-1.909 \pm 0.162$   $\chi^2/\text{NDF}: 550.7/11$

Left:  $-1.683 \pm 0.116$   $\chi^2/\text{NDF}: 1262.5/24$

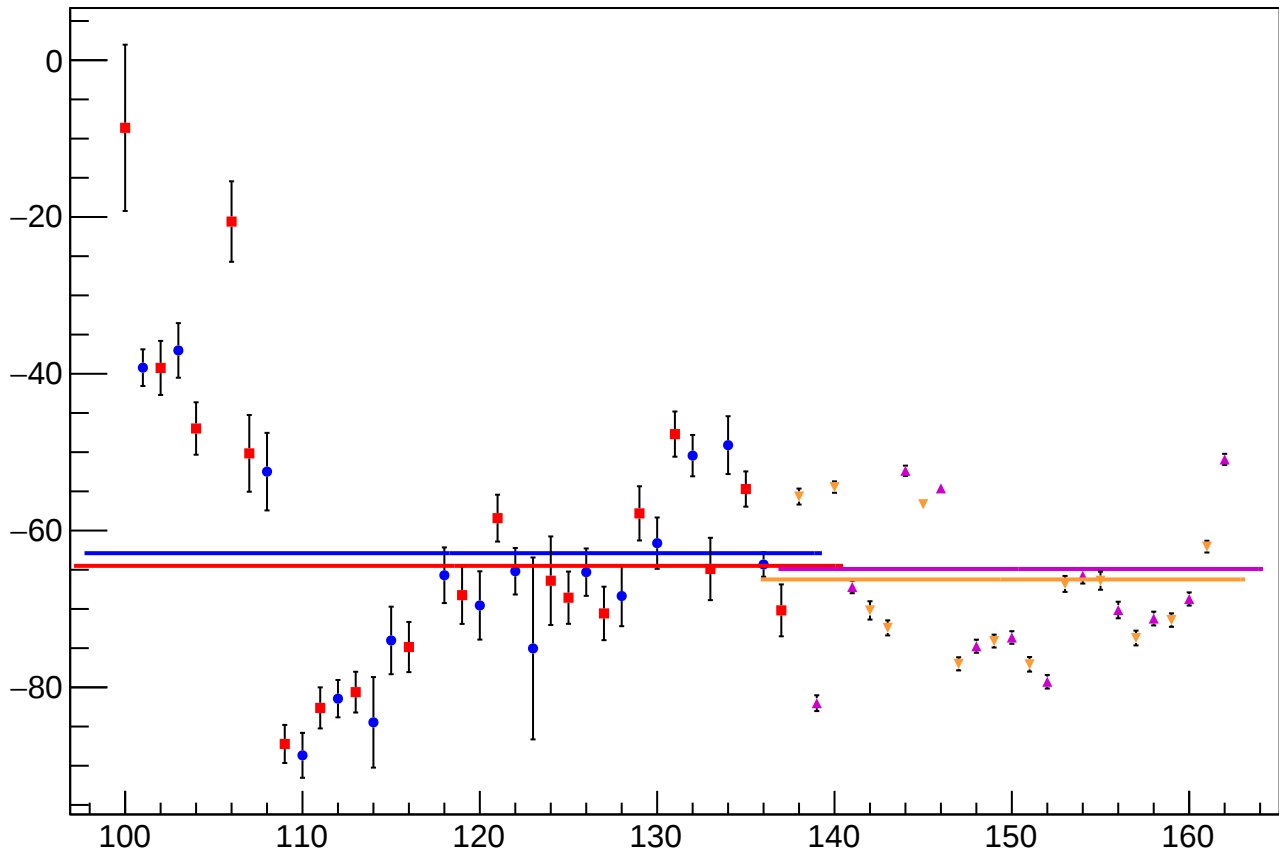
Right:  $-3.824 \pm 0.295$   $\chi^2/\text{NDF}: 587.0/35$

In:  $-2.062 \pm 0.151$   $\chi^2/\text{NDF}: 838.0/28$

Out:  $-1.874 \pm 0.155$   $\chi^2/\text{NDF}: 1056.4/31$

All:  $-1.971 \pm 0.108$   $\chi^2/\text{NDF}: 1895.2/60$

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.887 \pm 0.738$   $\chi^2/\text{NDF}: 368.7/16$

Left Out:  $-66.236 \pm 0.240$   $\chi^2/\text{NDF}: 1184.6/12$

Right Out:  $-64.502 \pm 0.751$   $\chi^2/\text{NDF}: 444.1/18$

Left In:  $-64.901 \pm 0.231$   $\chi^2/\text{NDF}: 1979.4/11$

Left:  $-65.543 \pm 0.167$   $\chi^2/\text{NDF}: 3180.0/24$

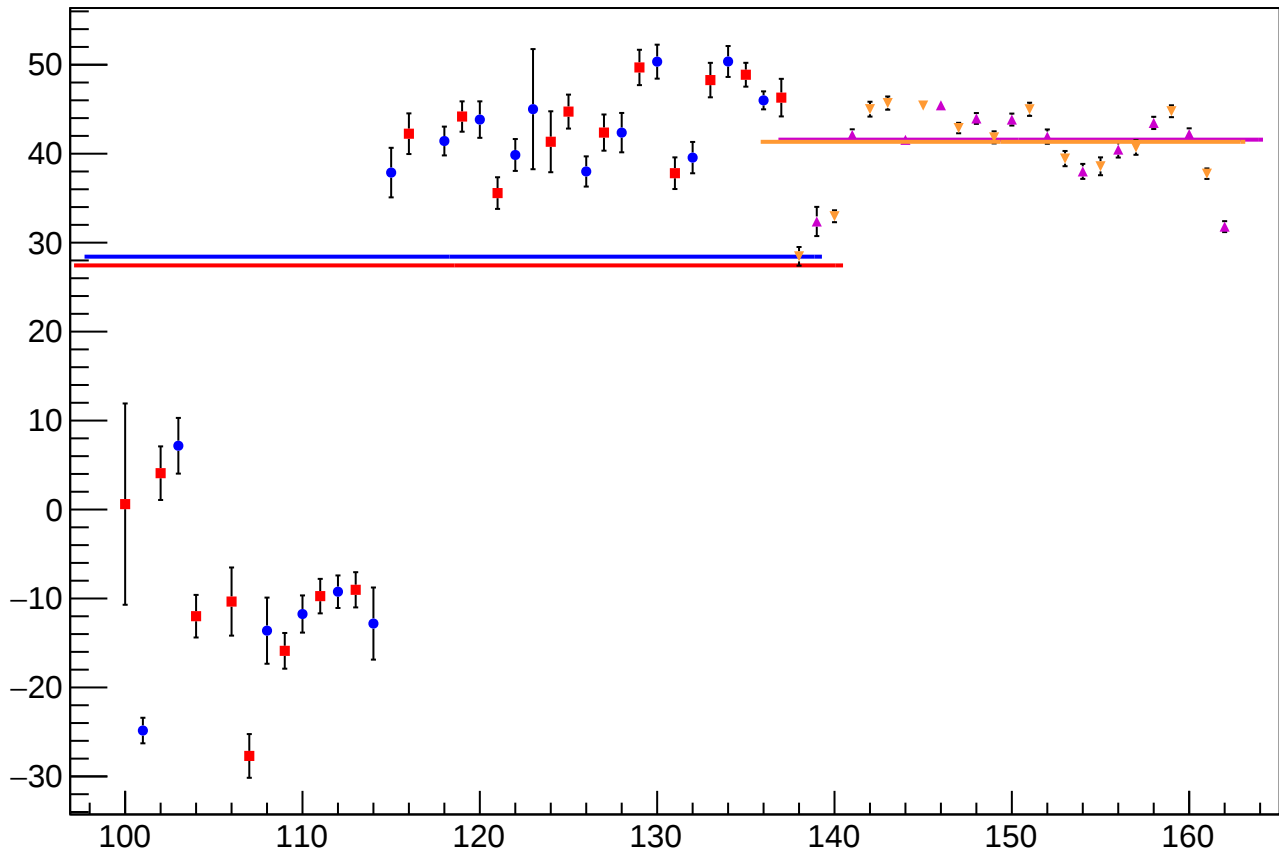
Right:  $-63.680 \pm 0.526$   $\chi^2/\text{NDF}: 815.2/35$

In:  $-64.721 \pm 0.221$   $\chi^2/\text{NDF}: 2354.9/28$

Out:  $-66.075 \pm 0.229$   $\chi^2/\text{NDF}: 1633.6/31$

All:  $-65.373 \pm 0.159$   $\chi^2/\text{NDF}: 4006.6/60$

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 28.425 $\pm$ 0.457  $\chi^2$ /NDF: 3330.3/16

Left Out: 41.336 $\pm$ 0.198  $\chi^2$ /NDF: 523.7/12

Right Out: 27.441 $\pm$ 0.479  $\chi^2$ /NDF: 3033.0/18

Left In: 41.578 $\pm$ 0.192  $\chi^2$ /NDF: 405.5/11

Left: 41.461 $\pm$ 0.138  $\chi^2$ /NDF: 929.9/24

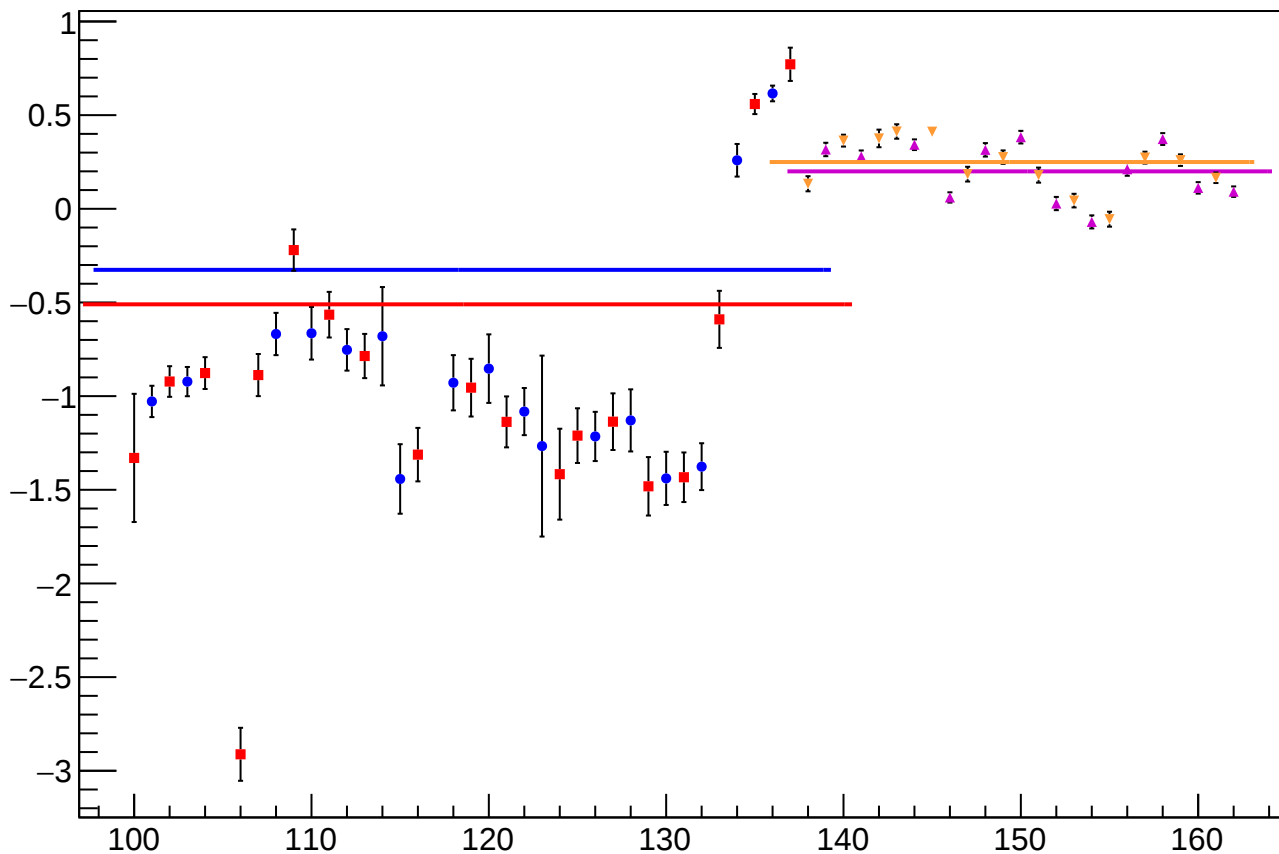
Right: 27.956 $\pm$ 0.331  $\chi^2$ /NDF: 6365.5/35

In: 39.609 $\pm$ 0.177  $\chi^2$ /NDF: 4439.9/28

Out: 39.307 $\pm$ 0.183  $\chi^2$ /NDF: 4276.3/31

All: 39.463 $\pm$ 0.127  $\chi^2$ /NDF: 8717.6/60

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.326 \pm 0.025$   $\chi^2/\text{NDF}$ : 1013.0/16

Left Out:  $0.250 \pm 0.009$   $\chi^2/\text{NDF}$ : 197.2/12

Right Out:  $-0.510 \pm 0.026$   $\chi^2/\text{NDF}$ : 1169.4/18

Left In:  $0.200 \pm 0.009$   $\chi^2/\text{NDF}$ : 243.8/11

Left:  $0.224 \pm 0.007$   $\chi^2/\text{NDF}$ : 455.2/24

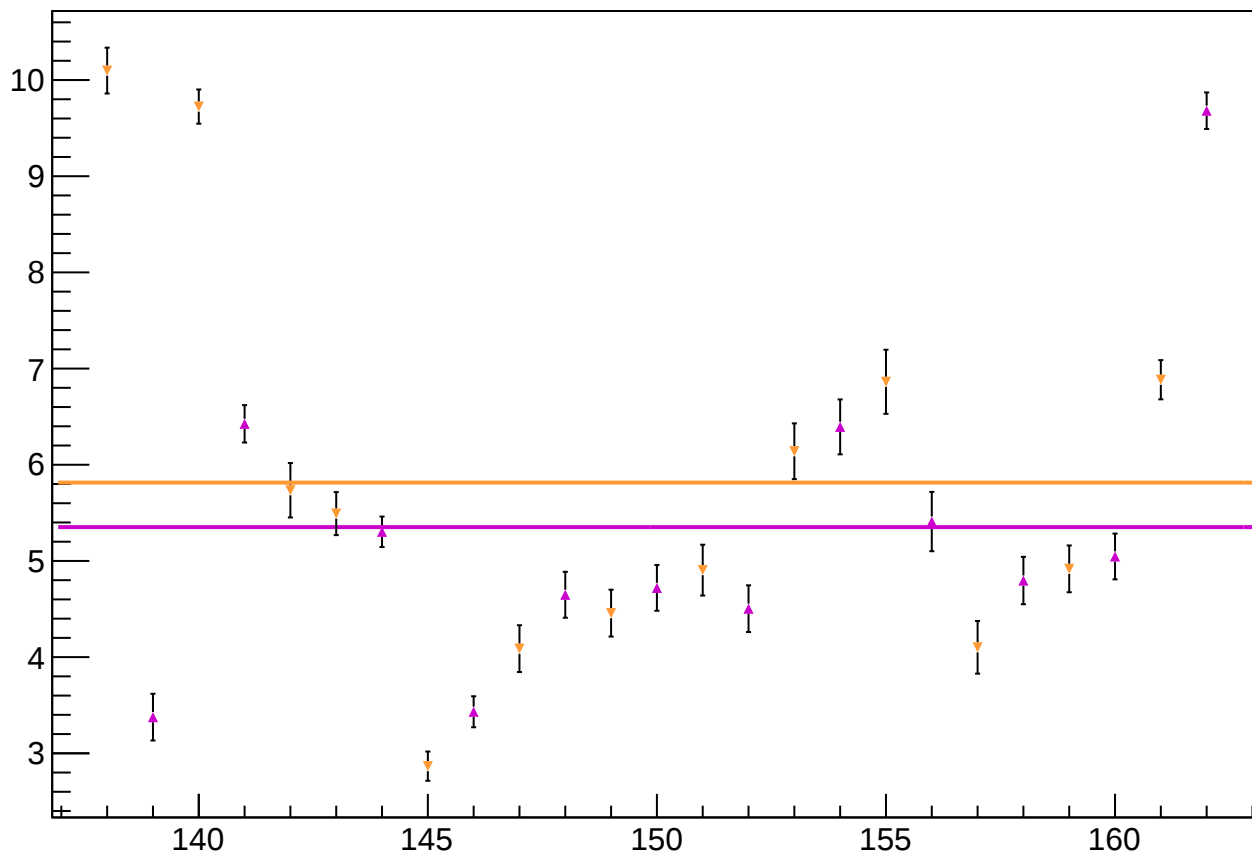
Right:  $-0.415 \pm 0.018$   $\chi^2/\text{NDF}$ : 2208.8/35

In:  $0.136 \pm 0.009$   $\chi^2/\text{NDF}$ : 1648.8/28

Out:  $0.159 \pm 0.009$   $\chi^2/\text{NDF}$ : 2136.0/31

All:  $0.147 \pm 0.006$   $\chi^2/\text{NDF}$ : 3788.1/60

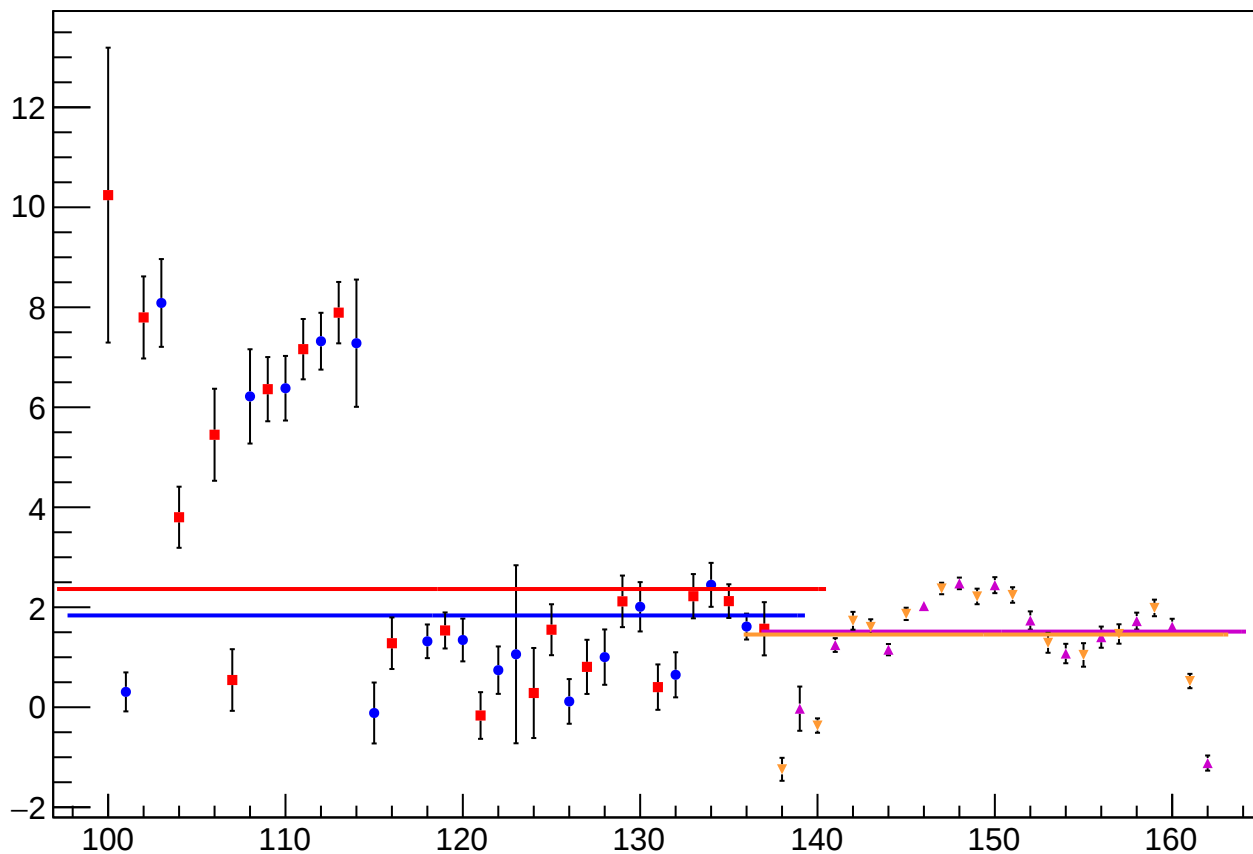
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.815 $\pm$ 0.063  $\chi^2$ /NDF:1367.5/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 5.352 $\pm$ 0.062  $\chi^2$ /NDF:806.7/11

Left: 5.578 $\pm$ 0.044  $\chi^2$ /NDF: 2201.3/24  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 5.352 $\pm$ 0.062  $\chi^2$ /NDF:806.7/11  
 Out: 5.815 $\pm$ 0.063  $\chi^2$ /NDF:1367.5/12  
 All: 5.578 $\pm$ 0.044  $\chi^2$ /NDF: 2201.3/24

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.836 $\pm$ 0.116  $\chi^2$ /NDF: 294.9/16

Left Out: 1.455 $\pm$ 0.044  $\chi^2$ /NDF:481.6/12

Right Out: 2.365 $\pm$ 0.123  $\chi^2$ /NDF: 336.4/18

Left In: 1.513 $\pm$ 0.043  $\chi^2$ /NDF:466.8/11

Left: 1.485 $\pm$ 0.031  $\chi^2$ /NDF: 949.4/24

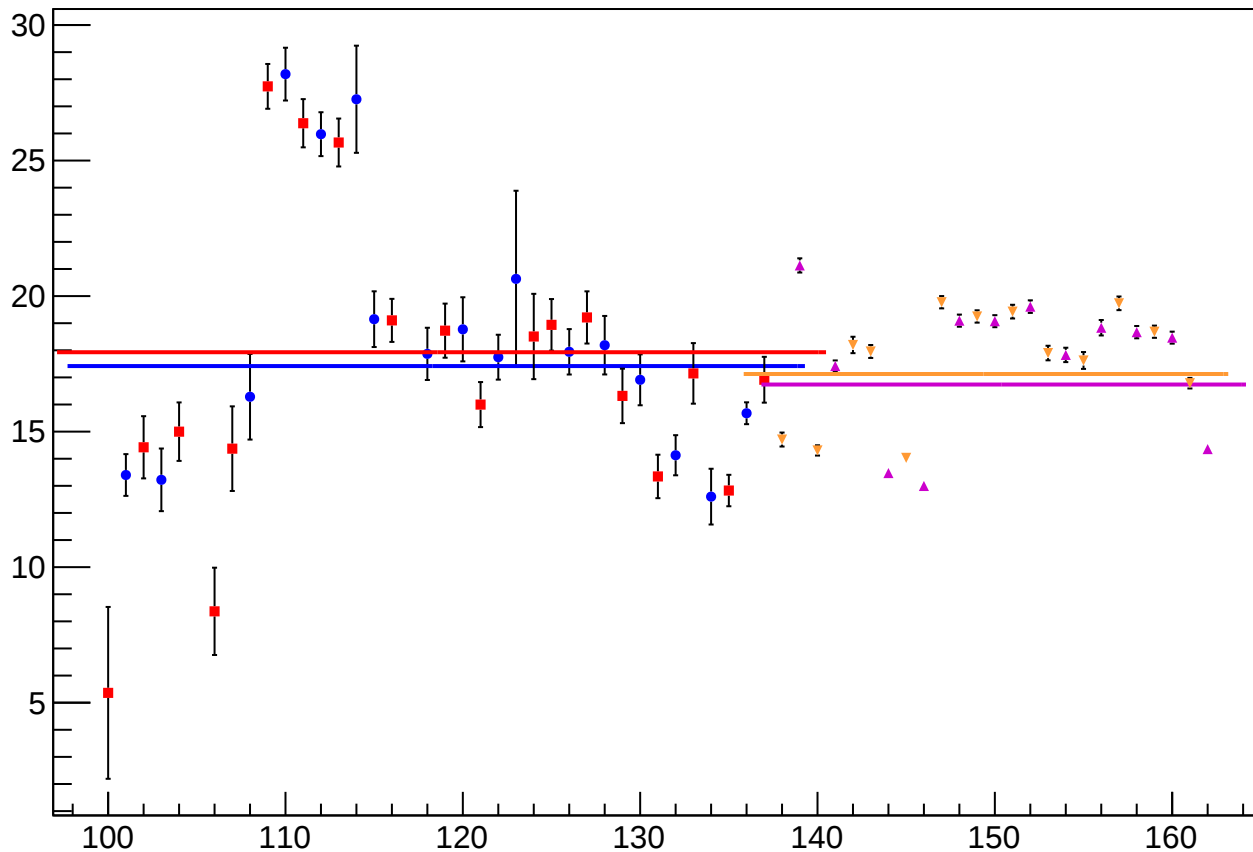
Right: 2.086 $\pm$ 0.084  $\chi^2$ /NDF: 641.1/35

In: 1.551 $\pm$ 0.040  $\chi^2$ /NDF:768.5/28

Out: 1.558 $\pm$ 0.041  $\chi^2$ /NDF:866.9/31

All: 1.554 $\pm$ 0.029  $\chi^2$ /NDF: 1635.4/60

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.418 $\pm$ 0.212  $\chi^2$ /NDF: 366.8/16

Left Out: 17.126 $\pm$ 0.063  $\chi^2$ /NDF:1173.5/12

Right Out: 17.929 $\pm$ 0.219  $\chi^2$ /NDF: 506.3/18

Left In: 16.737 $\pm$ 0.061  $\chi^2$ /NDF:1994.8/11

Left: 16.924 $\pm$ 0.044  $\chi^2$ /NDF: 3187.8/24

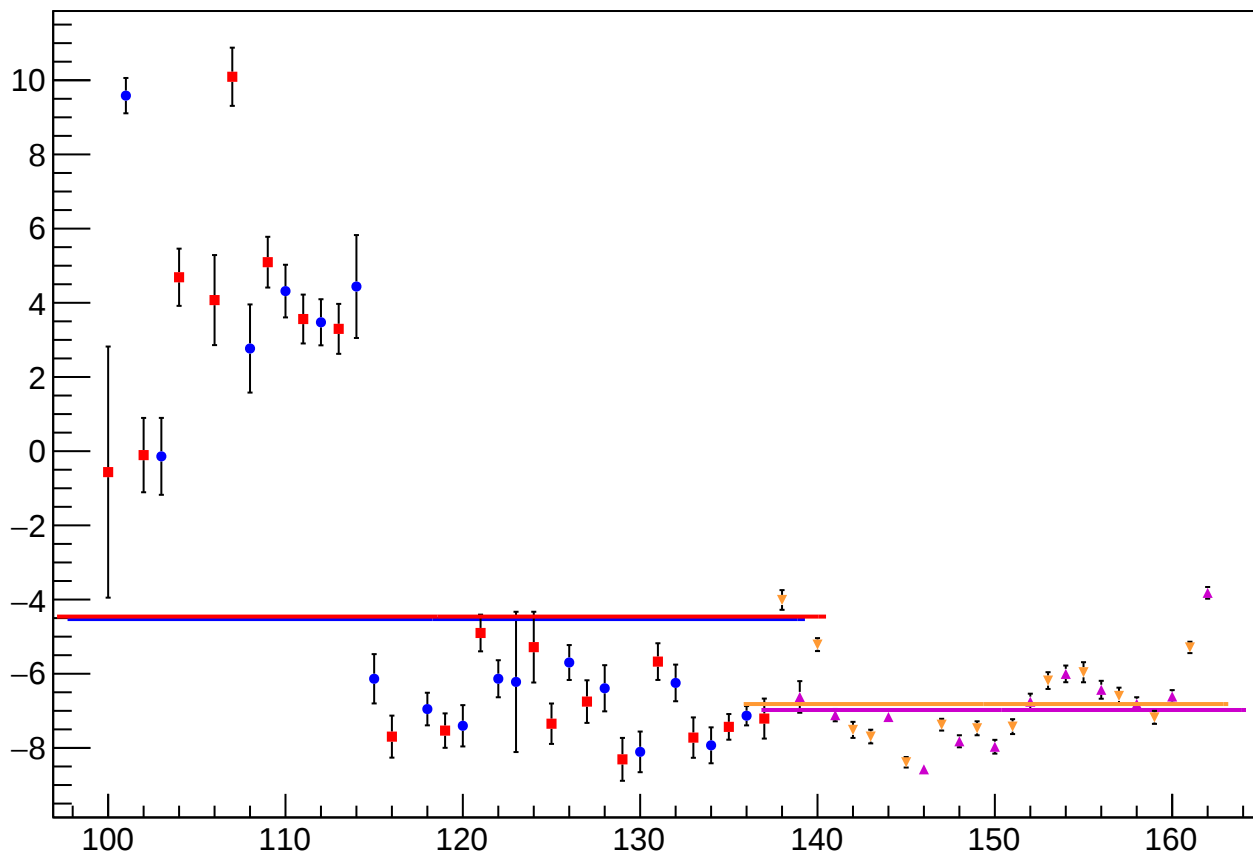
Right: 17.665 $\pm$ 0.152  $\chi^2$ /NDF: 876.0/35

In: 16.790 $\pm$ 0.059  $\chi^2$ /NDF:2371.2/28

Out: 17.188 $\pm$ 0.061  $\chi^2$ /NDF:1692.3/31

All: 16.981 $\pm$ 0.042  $\chi^2$ /NDF: 4085.7/60

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-4.526 \pm 0.130$   $\chi^2/\text{NDF}: 1590.2/16$

Left Out:  $-6.817 \pm 0.052$   $\chi^2/\text{NDF}: 506.8/12$

Right Out:  $-4.459 \pm 0.137$   $\chi^2/\text{NDF}: 1338.9/18$

Left In:  $-6.977 \pm 0.050$   $\chi^2/\text{NDF}: 655.9/11$

Left:  $-6.900 \pm 0.036$   $\chi^2/\text{NDF}: 1167.6/24$

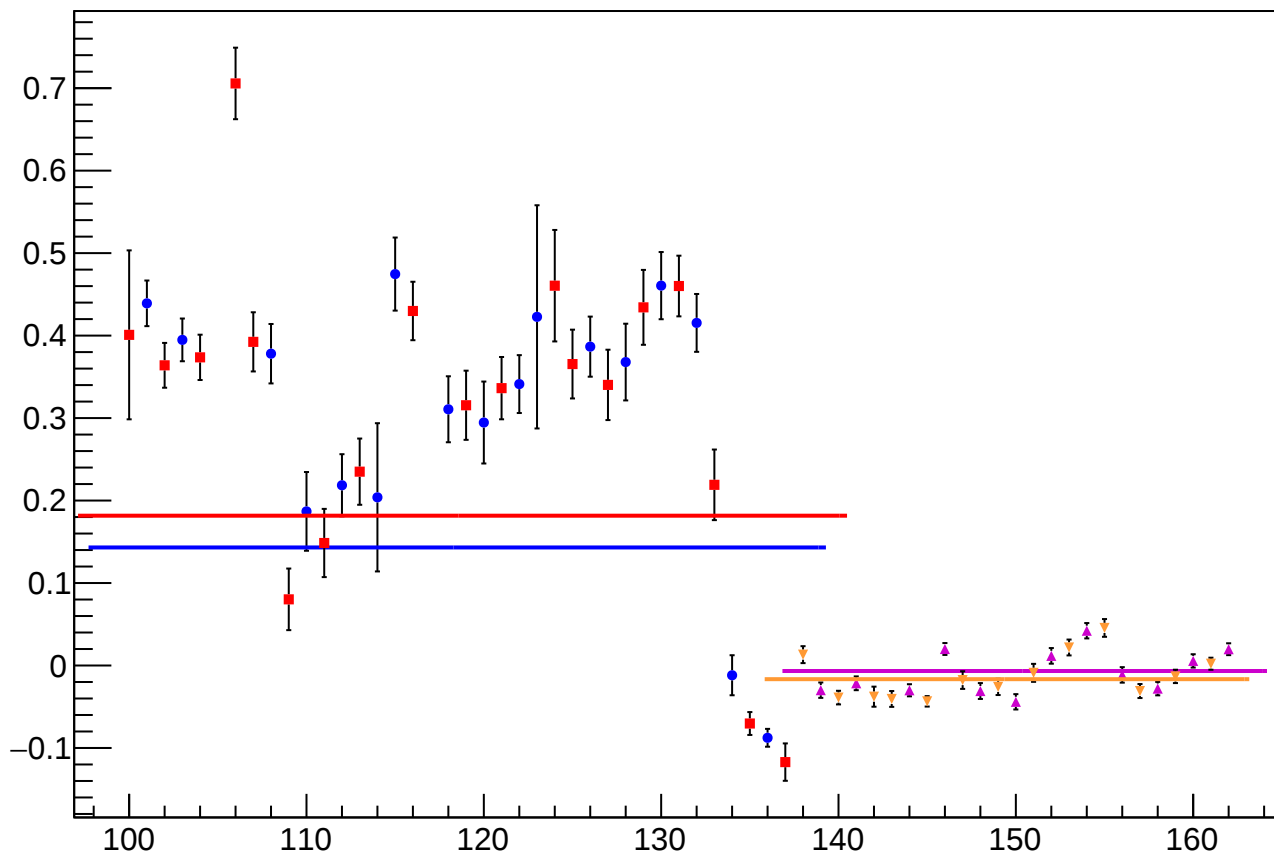
Right:  $-4.494 \pm 0.094$   $\chi^2/\text{NDF}: 2929.2/35$

In:  $-6.655 \pm 0.047$   $\chi^2/\text{NDF}: 2557.2/28$

Out:  $-6.519 \pm 0.049$   $\chi^2/\text{NDF}: 2104.5/31$

All:  $-6.589 \pm 0.034$   $\chi^2/\text{NDF}: 4665.8/60$

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.143 \pm 0.007$   $\chi^2/\text{NDF}: 1060.4/16$

Left Out:  $-0.017 \pm 0.002$   $\chi^2/\text{NDF}: 103.2/12$

Right Out:  $0.182 \pm 0.007$   $\chi^2/\text{NDF}: 1007.8/18$

Left In:  $-0.007 \pm 0.002$   $\chi^2/\text{NDF}: 109.8/11$

Left:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}: 221.1/24$

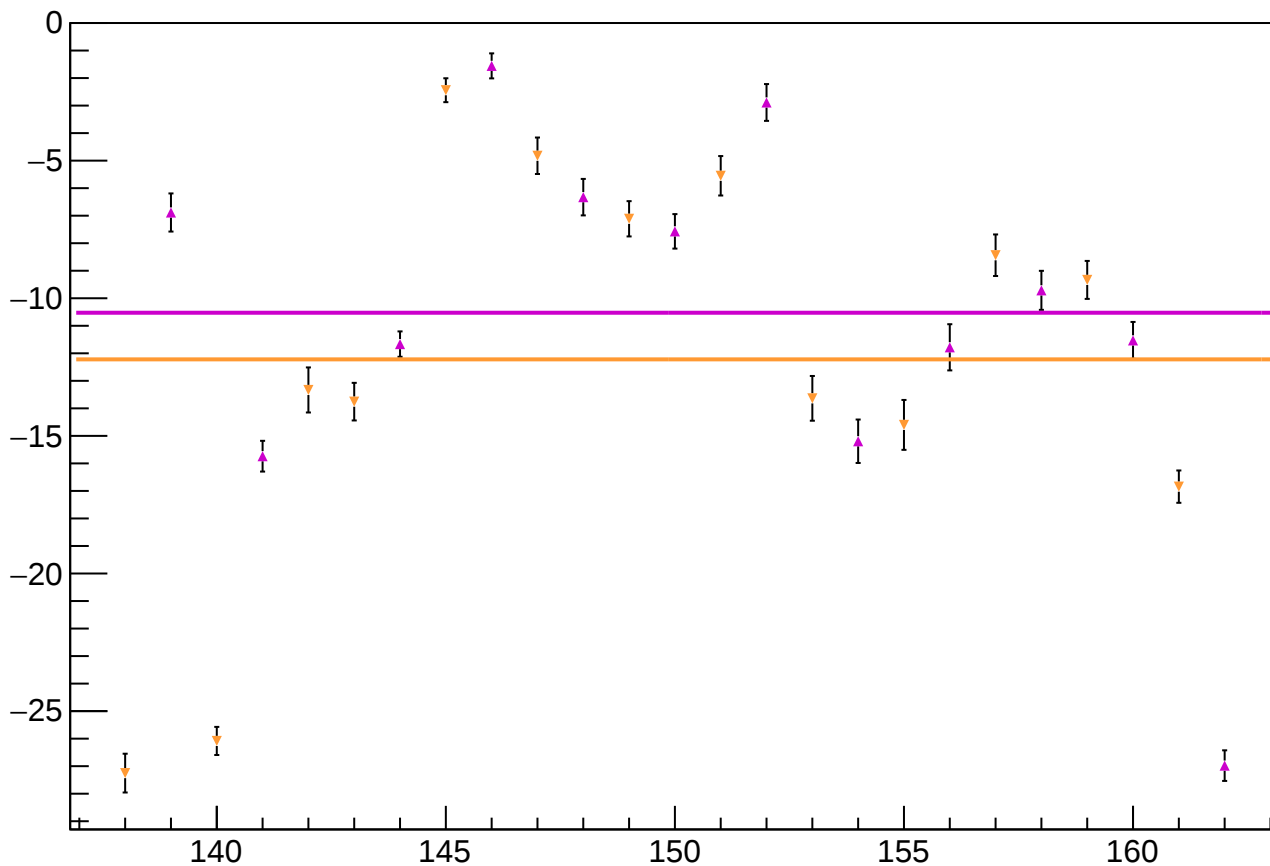
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}: 2082.4/35$

In:  $0.009 \pm 0.002$   $\chi^2/\text{NDF}: 1573.7/28$

Out:  $0.004 \pm 0.002$   $\chi^2/\text{NDF}: 1757.7/31$

All:  $0.007 \pm 0.002$   $\chi^2/\text{NDF}: 3334.2/60$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

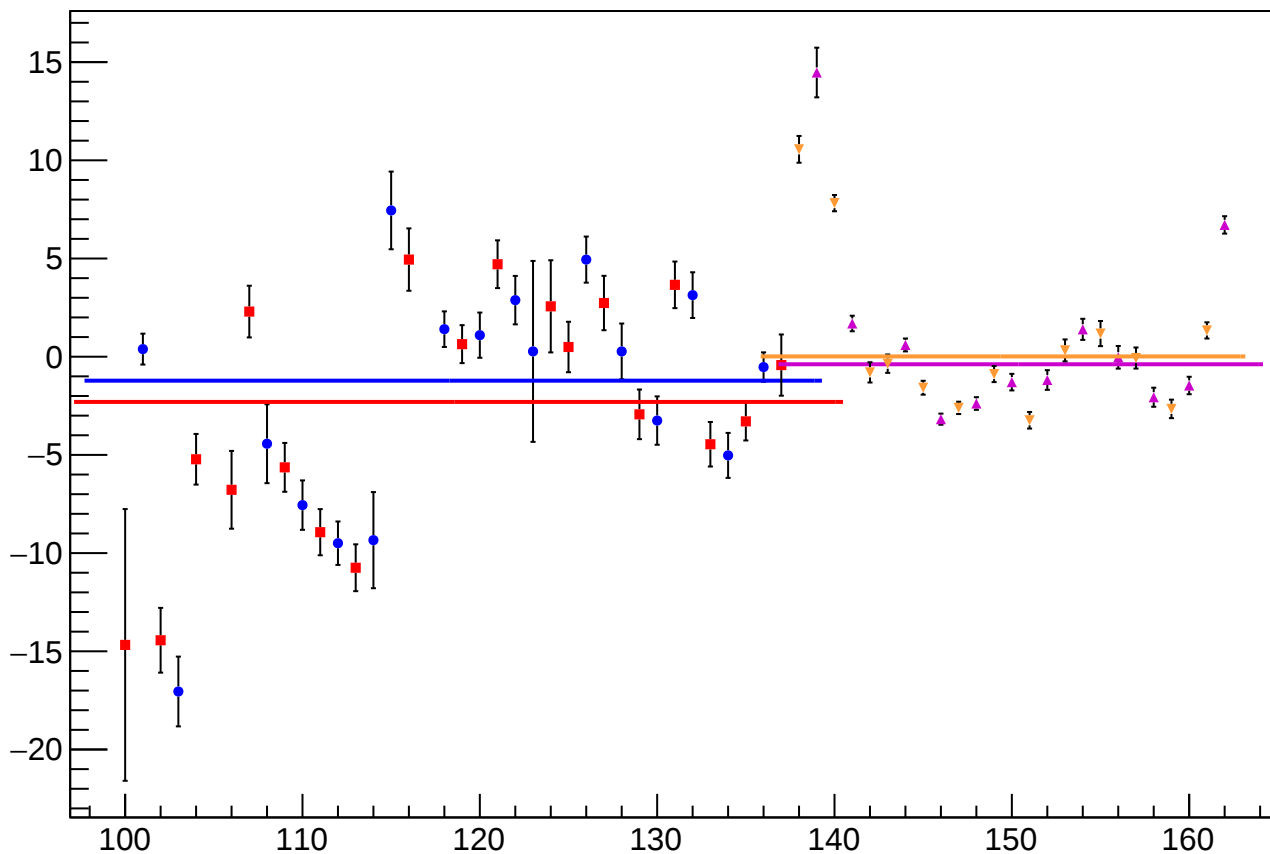


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -12.220+/-0.180  $\chi^2/\text{NDF}$ :2095.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -10.526+/-0.176  $\chi^2/\text{NDF}$ :1620.1/11

Left: -11.354+/-0.126  $\chi^2/\text{NDF}$ : 3761.5/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -10.526+/-0.176  $\chi^2/\text{NDF}$ :1620.1/11  
 Out: -12.220+/-0.180  $\chi^2/\text{NDF}$ :2095.9/12

All: -11.354+/-0.126  $\chi^2/\text{NDF}$ : 3761.5/24

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.220 \pm 0.290$   $\chi^2/\text{NDF}$ : 278.6/16

Left Out:  $0.014 \pm 0.124$   $\chi^2/\text{NDF}$ : 798.0/12

Right Out:  $-2.302 \pm 0.302$   $\chi^2/\text{NDF}$ : 286.2/18

Left In:  $-0.384 \pm 0.121$   $\chi^2/\text{NDF}$ : 603.5/11

Left:  $-0.190 \pm 0.086$   $\chi^2/\text{NDF}$ : 1406.8/24

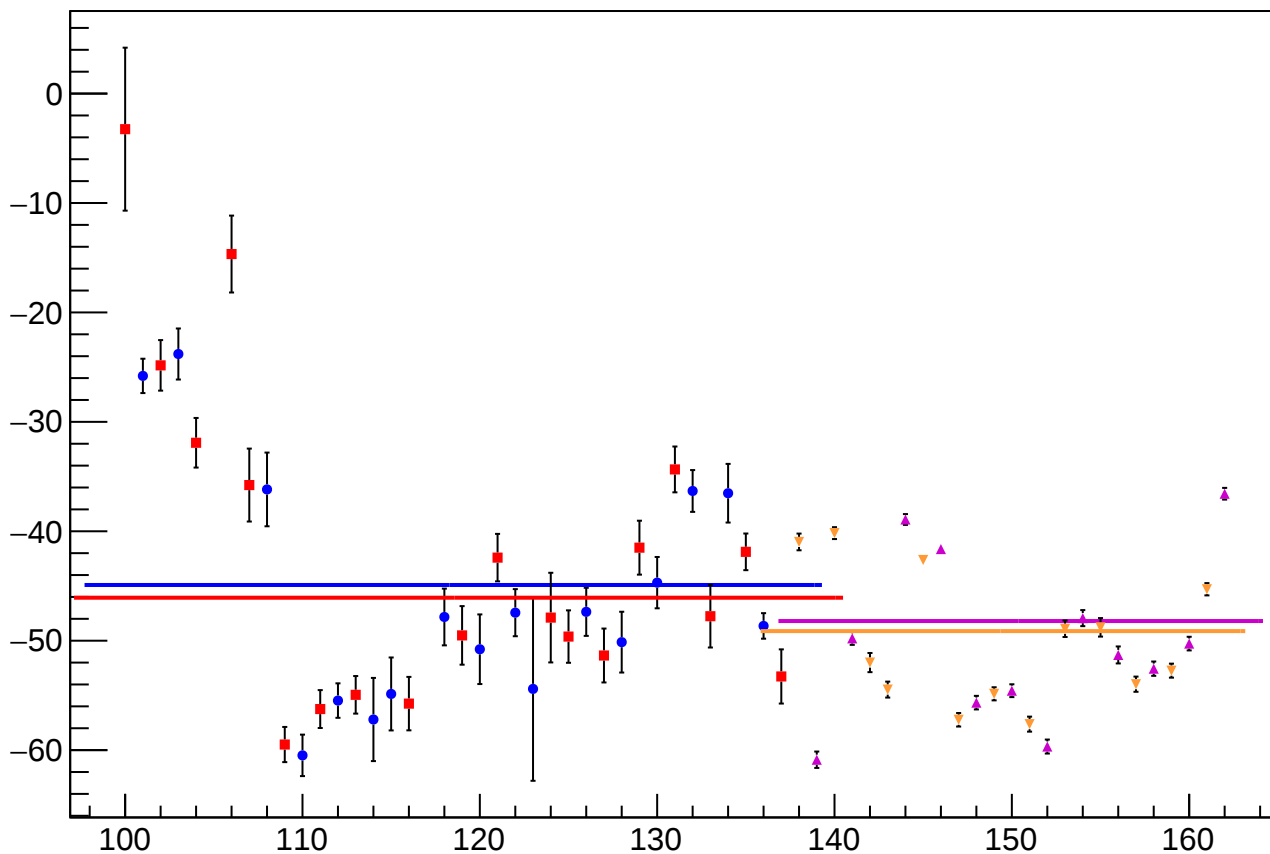
Right:  $-1.738 \pm 0.209$   $\chi^2/\text{NDF}$ : 571.5/35

In:  $-0.507 \pm 0.111$   $\chi^2/\text{NDF}$ : 889.2/28

Out:  $-0.318 \pm 0.114$   $\chi^2/\text{NDF}$ : 1134.5/31

All:  $-0.415 \pm 0.080$   $\chi^2/\text{NDF}$ : 2025.0/60

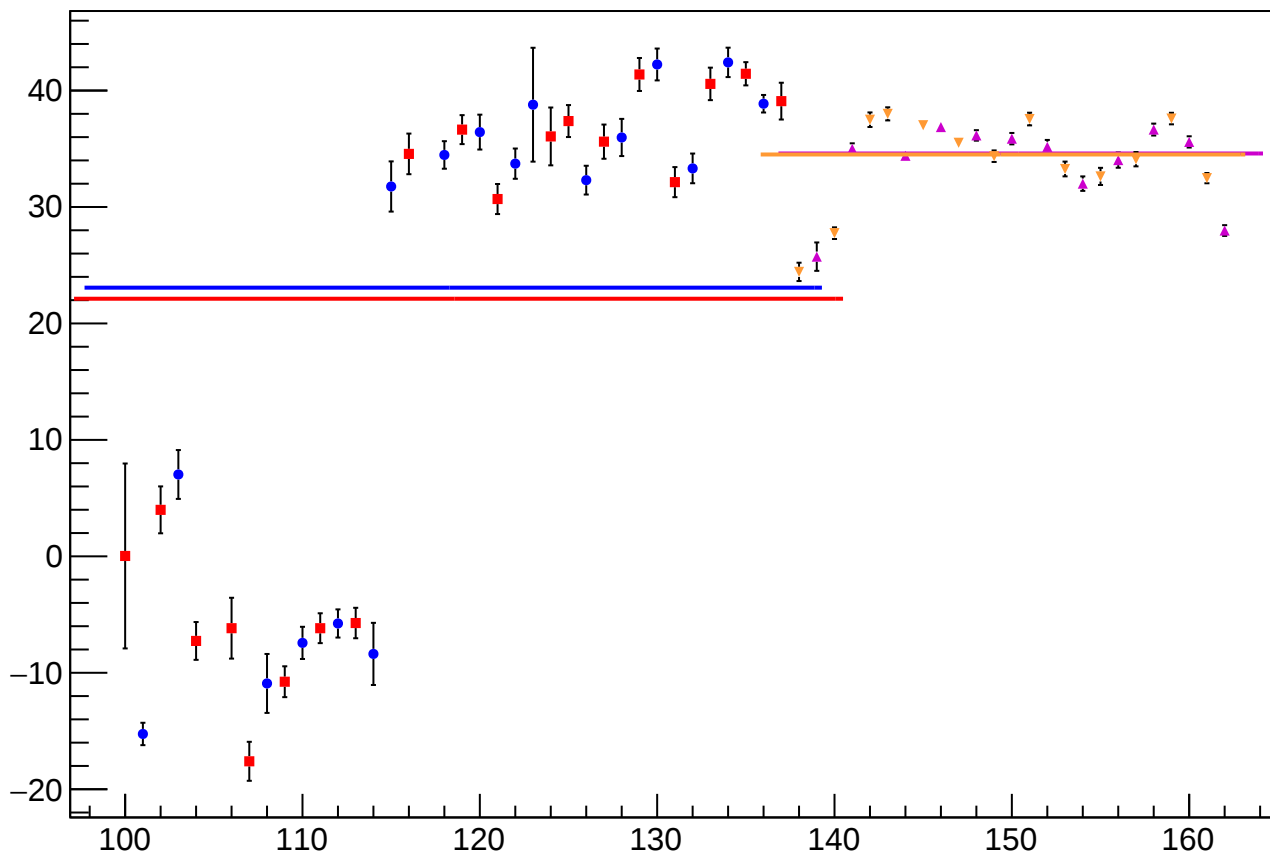
reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-44.908 \pm 0.523$   $\chi^2/\text{NDF}: 421.2/16$   
 Left Out:  $-49.122 \pm 0.179$   $\chi^2/\text{NDF}: 1193.1/12$   
 Right Out:  $-46.071 \pm 0.528$   $\chi^2/\text{NDF}: 454.0/18$   
 Left In:  $-48.202 \pm 0.172$   $\chi^2/\text{NDF}: 2001.0/11$

Left:  $-48.645 \pm 0.124$   $\chi^2/\text{NDF}: 3207.8/24$   
 Right:  $-45.483 \pm 0.371$   $\chi^2/\text{NDF}: 877.6/35$   
 In:  $-47.880 \pm 0.163$   $\chi^2/\text{NDF}: 2458.0/28$   
 Out:  $-48.809 \pm 0.169$   $\chi^2/\text{NDF}: 1677.0/31$   
 All:  $-48.328 \pm 0.117$   $\chi^2/\text{NDF}: 4150.6/60$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.073 $\pm$ 0.326  $\chi^2$ /NDF: 4346.0/16

Left Out: 34.509 $\pm$ 0.147  $\chi^2$ /NDF:552.6/12

Right Out: 22.122 $\pm$ 0.340  $\chi^2$ /NDF: 4034.4/18

Left In: 34.595 $\pm$ 0.143  $\chi^2$ /NDF:357.8/11

Left: 34.554 $\pm$ 0.102  $\chi^2$ /NDF: 910.5/24

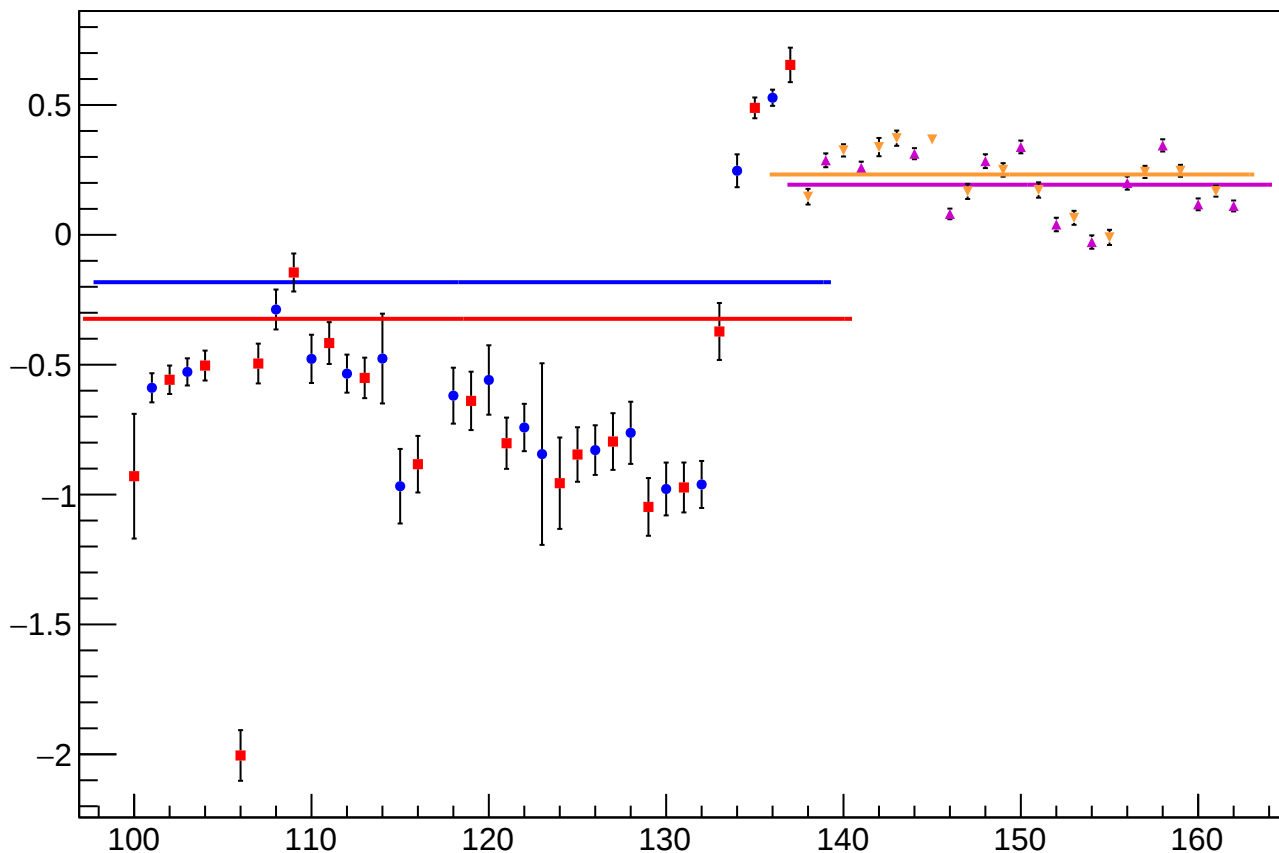
Right: 22.617 $\pm$ 0.235  $\chi^2$ /NDF: 8384.4/35

In: 32.744 $\pm$ 0.131  $\chi^2$ /NDF:5752.3/28

Out: 32.557 $\pm$ 0.135  $\chi^2$ /NDF:5706.0/31

All: 32.654 $\pm$ 0.094  $\chi^2$ /NDF: 11459.3/60

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.182 \pm 0.018$   $\chi^2/\text{NDF}$ : 998.1/16

Left Out:  $0.232 \pm 0.007$   $\chi^2/\text{NDF}$ : 237.2/12

Right Out:  $-0.323 \pm 0.018$   $\chi^2/\text{NDF}$ : 1184.5/18

Left In:  $0.193 \pm 0.007$   $\chi^2/\text{NDF}$ : 303.9/11

Left:  $0.212 \pm 0.005$   $\chi^2/\text{NDF}$ : 557.3/24

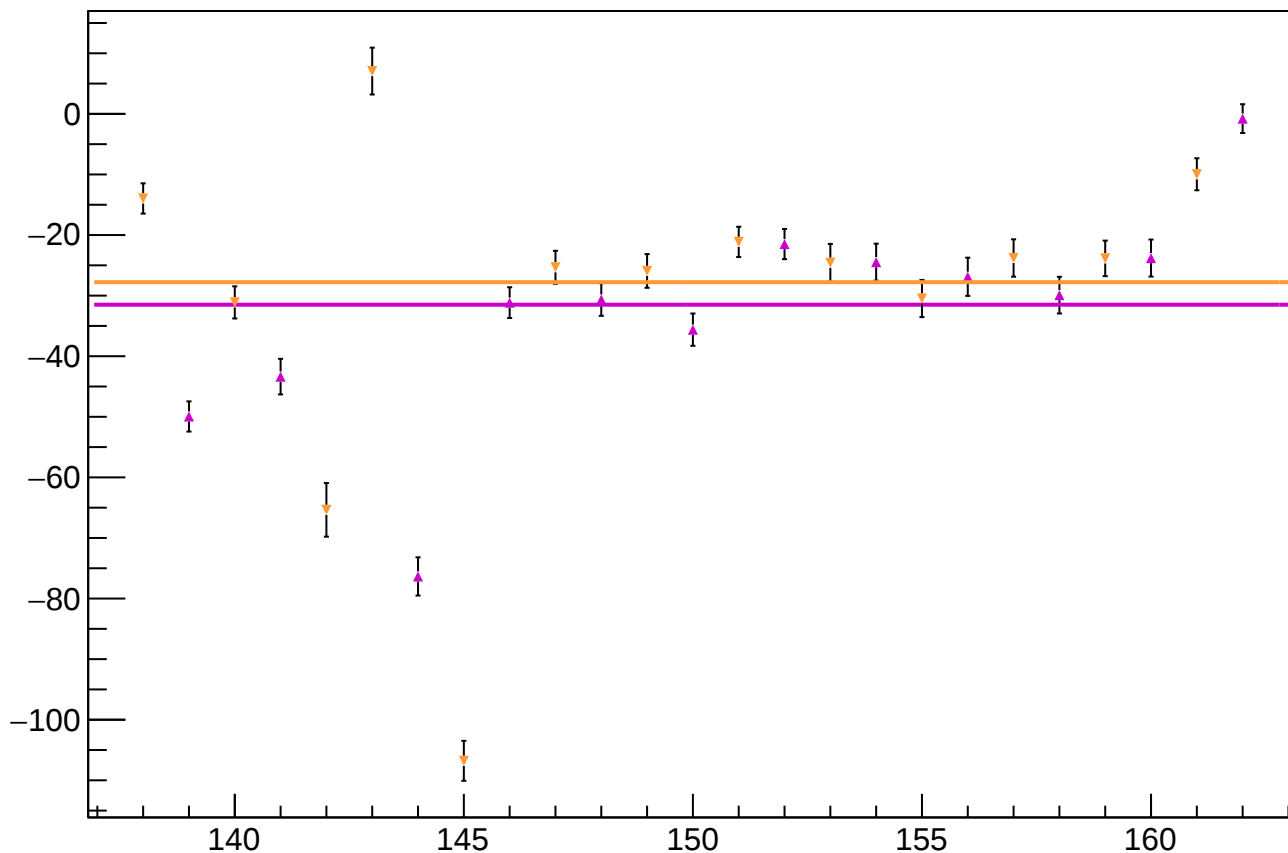
Right:  $-0.251 \pm 0.013$   $\chi^2/\text{NDF}$ : 2213.4/35

In:  $0.144 \pm 0.006$   $\chi^2/\text{NDF}$ : 1692.2/28

Out:  $0.160 \pm 0.007$   $\chi^2/\text{NDF}$ : 2236.1/31

All:  $0.152 \pm 0.005$   $\chi^2/\text{NDF}$ : 3931.3/60

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



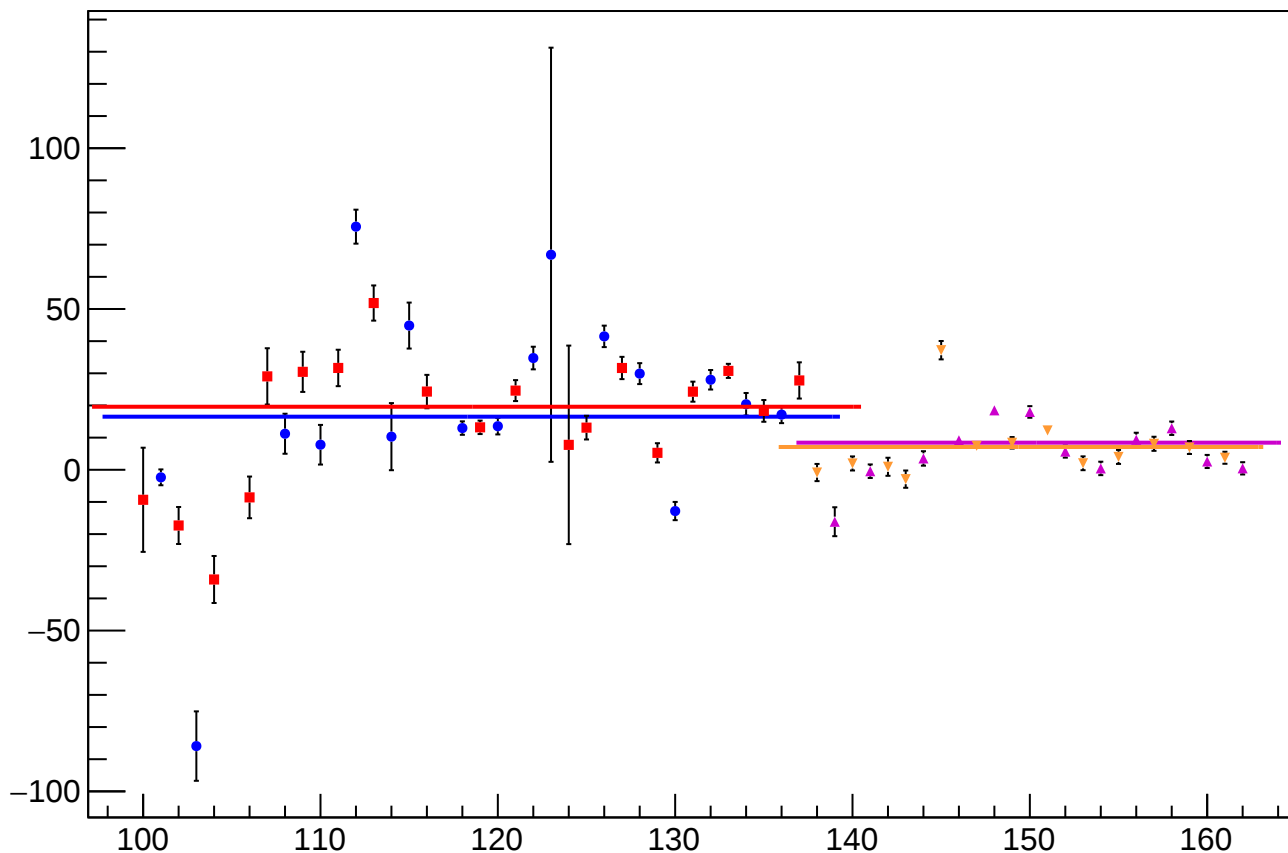
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -27.781+/-0.813  $\chi^2/\text{NDF}$ :819.1/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -31.495+/-0.797  $\chi^2/\text{NDF}$ :473.3/11

Left: -29.675+/-0.569  $\chi^2/\text{NDF}$ : 1303.0/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.495+/-0.797  $\chi^2/\text{NDF}$ :473.3/11  
 Out: -27.781+/-0.813  $\chi^2/\text{NDF}$ :819.1/12

All: -29.675+/-0.569  $\chi^2/\text{NDF}$ : 1303.0/24

reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 16.512 $\pm$ 0.847  $\chi^2$ /NDF: 519.6/16

Left Out: 7.087 $\pm$ 0.549  $\chi^2$ /NDF:168.7/12

Right Out: 19.604 $\pm$ 0.898  $\chi^2$ /NDF: 242.0/18

Left In: 8.432 $\pm$ 0.552  $\chi^2$ /NDF:187.0/11

Left: 7.756 $\pm$ 0.389  $\chi^2$ /NDF: 358.7/24

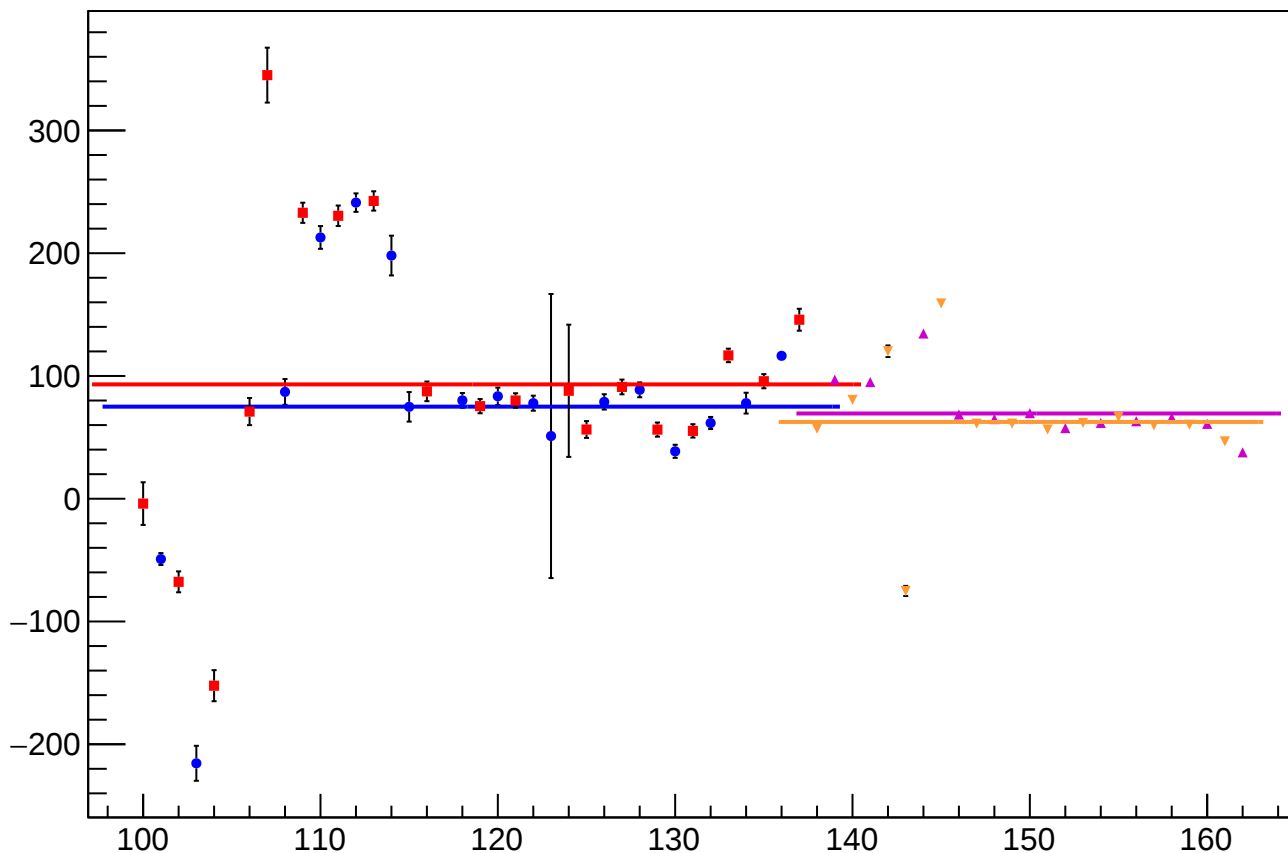
Right: 17.968 $\pm$ 0.616  $\chi^2$ /NDF: 767.9/35

In: 10.837 $\pm$ 0.462  $\chi^2$ /NDF:770.5/28

Out: 10.492 $\pm$ 0.469  $\chi^2$ /NDF:552.0/31

All: 10.667 $\pm$ 0.329  $\chi^2$ /NDF: 1322.8/60

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 75.009+/-1.636  $\chi^2/\text{NDF}$ : 1999.3/16

Left Out: 62.548+/-0.794  $\chi^2/\text{NDF}$ : 2151.0/12

Right Out: 93.140+/-1.711  $\chi^2/\text{NDF}$ : 2002.3/18

Left In: 69.439+/-0.773  $\chi^2/\text{NDF}$ : 786.8/11

Left: 66.087+/-0.554  $\chi^2/\text{NDF}$ : 2976.5/24

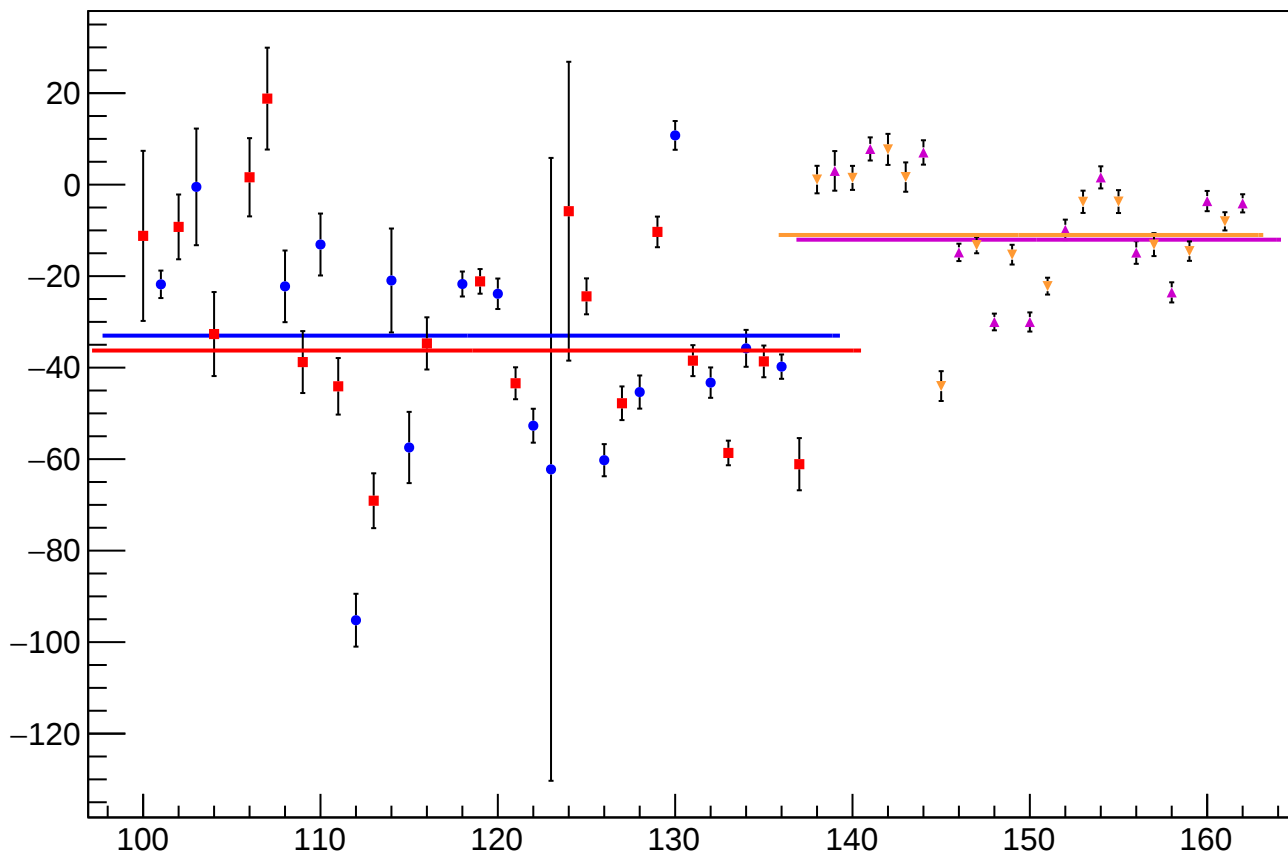
Right: 83.668+/-1.183  $\chi^2/\text{NDF}$ : 4060.3/35

In: 70.455+/-0.699  $\chi^2/\text{NDF}$ : 2795.7/28

Out: 67.969+/-0.720  $\chi^2/\text{NDF}$ : 4416.3/31

All: 69.250+/-0.502  $\chi^2/\text{NDF}$ : 7218.1/60

reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.005 \pm 0.972$   $\chi^2/\text{NDF}: 493.1/16$

Left Out:  $-11.001 \pm 0.657$   $\chi^2/\text{NDF}: 252.8/12$

Right Out:  $-36.260 \pm 1.025$   $\chi^2/\text{NDF}: 297.1/18$

Left In:  $-12.035 \pm 0.651$   $\chi^2/\text{NDF}: 389.7/11$

Left:  $-11.522 \pm 0.462$   $\chi^2/\text{NDF}: 643.7/24$

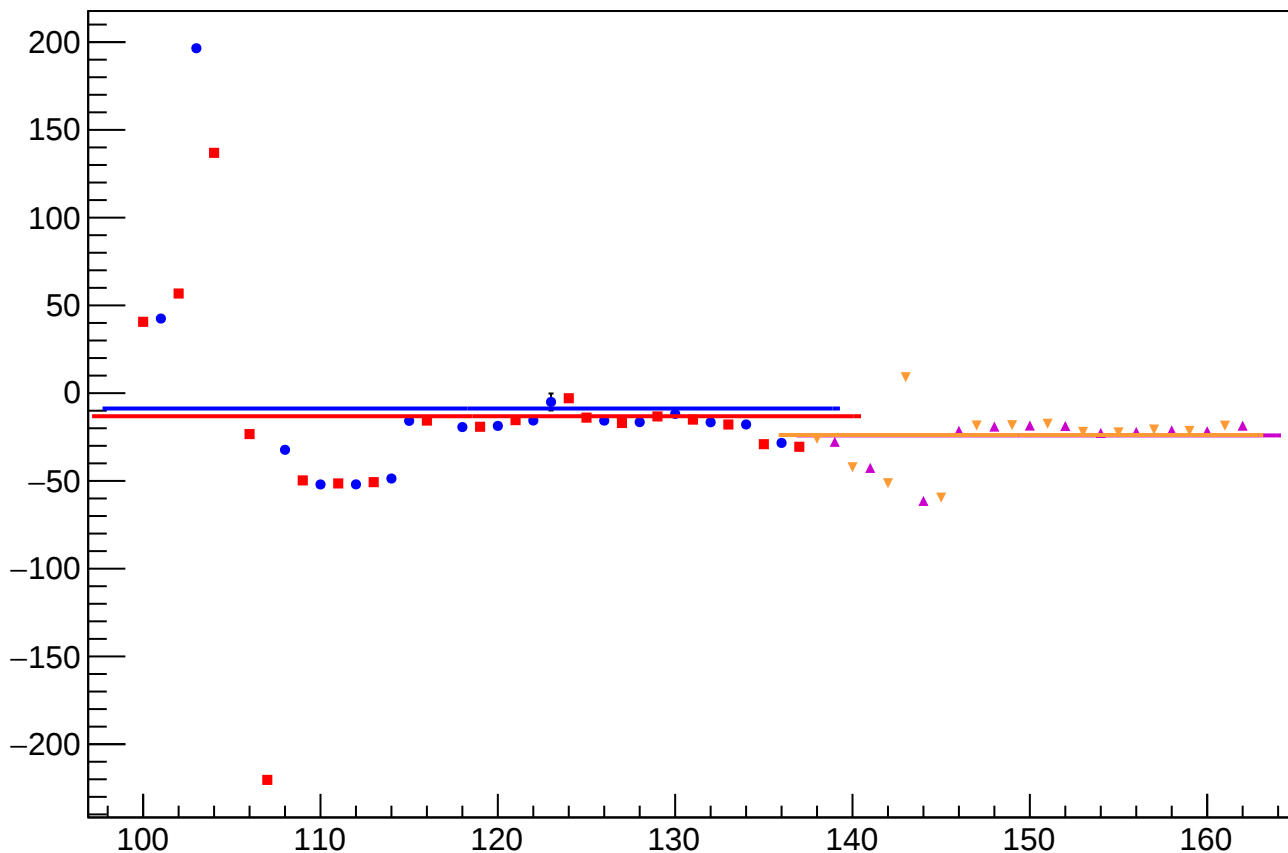
Right:  $-34.545 \pm 0.705$   $\chi^2/\text{NDF}: 795.4/35$

In:  $-18.537 \pm 0.541$   $\chi^2/\text{NDF}: 1204.1/28$

Out:  $-18.347 \pm 0.553$   $\chi^2/\text{NDF}: 980.2/31$

All:  $-18.444 \pm 0.387$   $\chi^2/\text{NDF}: 2184.4/60$

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-8.751 \pm 0.059$   $\chi^2/\text{NDF}$ : 576012.4/16

Left Out:  $-23.844 \pm 0.031$   $\chi^2/\text{NDF}$ : 166722.7/12

Right Out:  $-13.143 \pm 0.062$   $\chi^2/\text{NDF}$ : 558628.0/18

Left In:  $-24.078 \pm 0.030$   $\chi^2/\text{NDF}$ : 101207.1/11

Left:  $-23.964 \pm 0.022$   $\chi^2/\text{NDF}$ : 267959.3/24

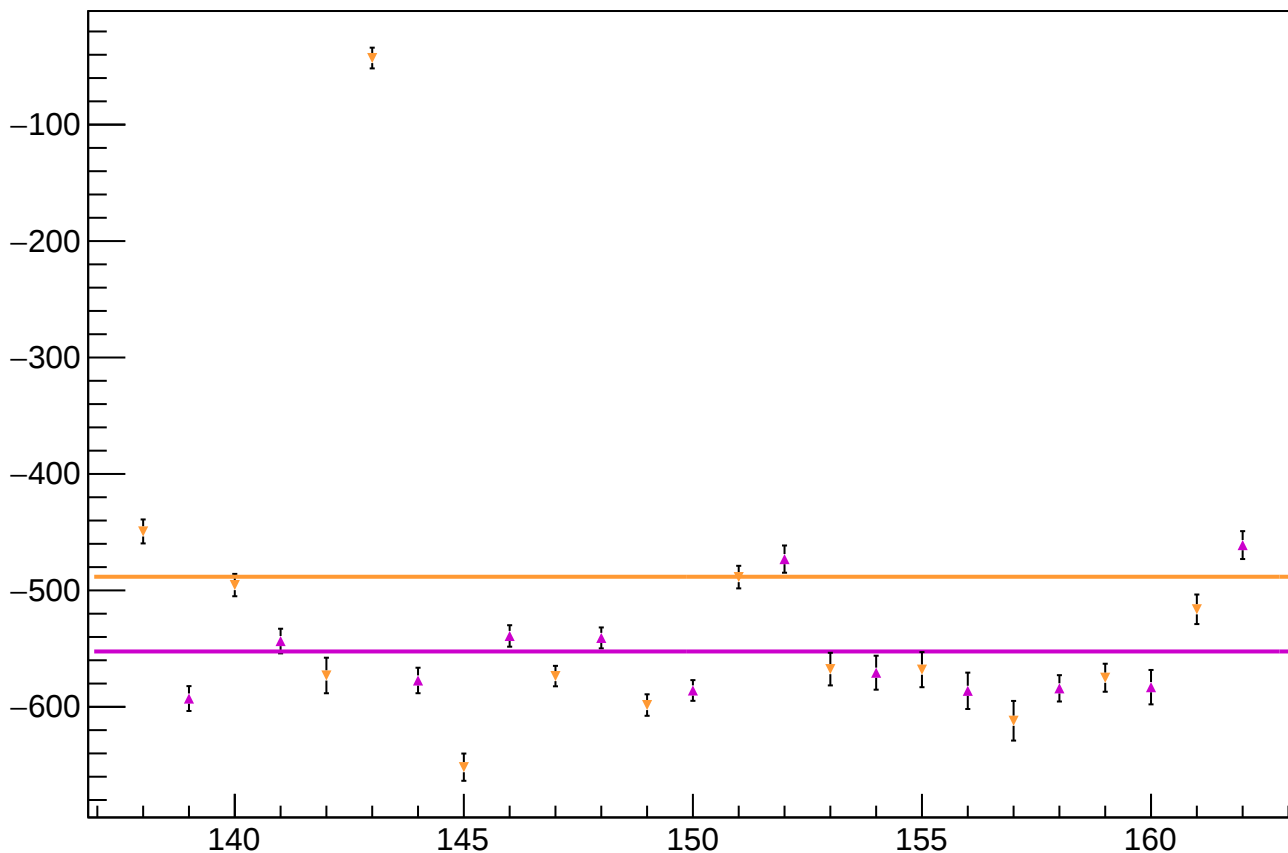
Right:  $-10.840 \pm 0.043$   $\chi^2/\text{NDF}$ : 1137294.9/35

In:  $-20.901 \pm 0.027$   $\chi^2/\text{NDF}$ : 731072.7/28

Out:  $-21.690 \pm 0.028$   $\chi^2/\text{NDF}$ : 749351.0/31

All:  $-21.282 \pm 0.019$   $\chi^2/\text{NDF}$ : 1480842.9/60

reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -488.277 $\pm$ 3.072  $\chi^2/\text{NDF}$ :3153.2/12

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

Left In: -552.444 $\pm$ 3.189  $\chi^2/\text{NDF}$ :160.8/11

Left: -519.163 $\pm$ 2.213  $\chi^2/\text{NDF}$ : 3523.9/24

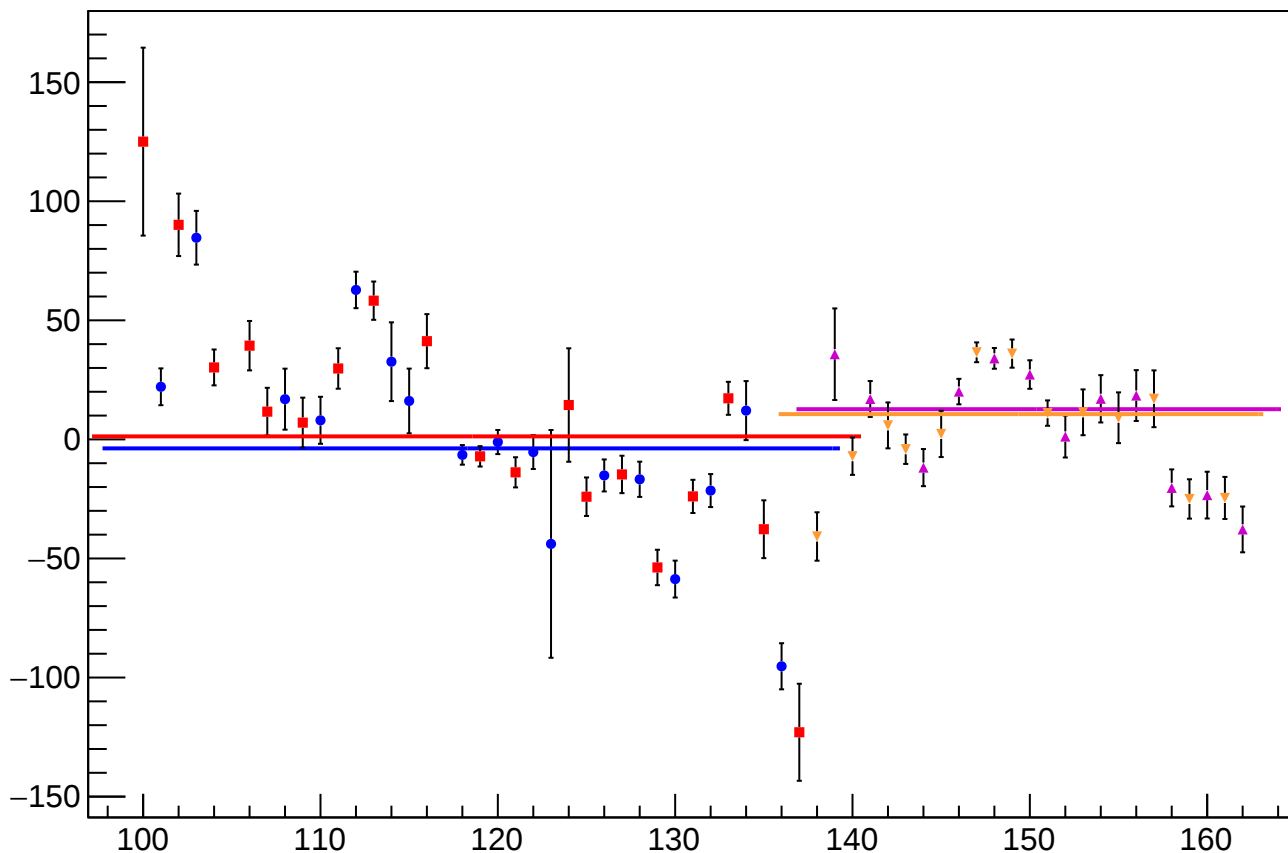
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -552.444 $\pm$ 3.189  $\chi^2/\text{NDF}$ :160.8/11

Out: -488.277 $\pm$ 3.072  $\chi^2/\text{NDF}$ :3153.2/12

All: -519.163 $\pm$ 2.213  $\chi^2/\text{NDF}$ : 3523.9/24

reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.773 \pm 1.889$   $\chi^2/\text{NDF}$ : 314.3/16

Left Out:  $10.612 \pm 2.004$   $\chi^2/\text{NDF}$ : 129.4/12

Right Out:  $1.265 \pm 1.920$   $\chi^2/\text{NDF}$ : 303.7/18

Left In:  $12.686 \pm 2.124$   $\chi^2/\text{NDF}$ : 104.8/11

Left:  $11.589 \pm 1.458$   $\chi^2/\text{NDF}$ : 234.8/24

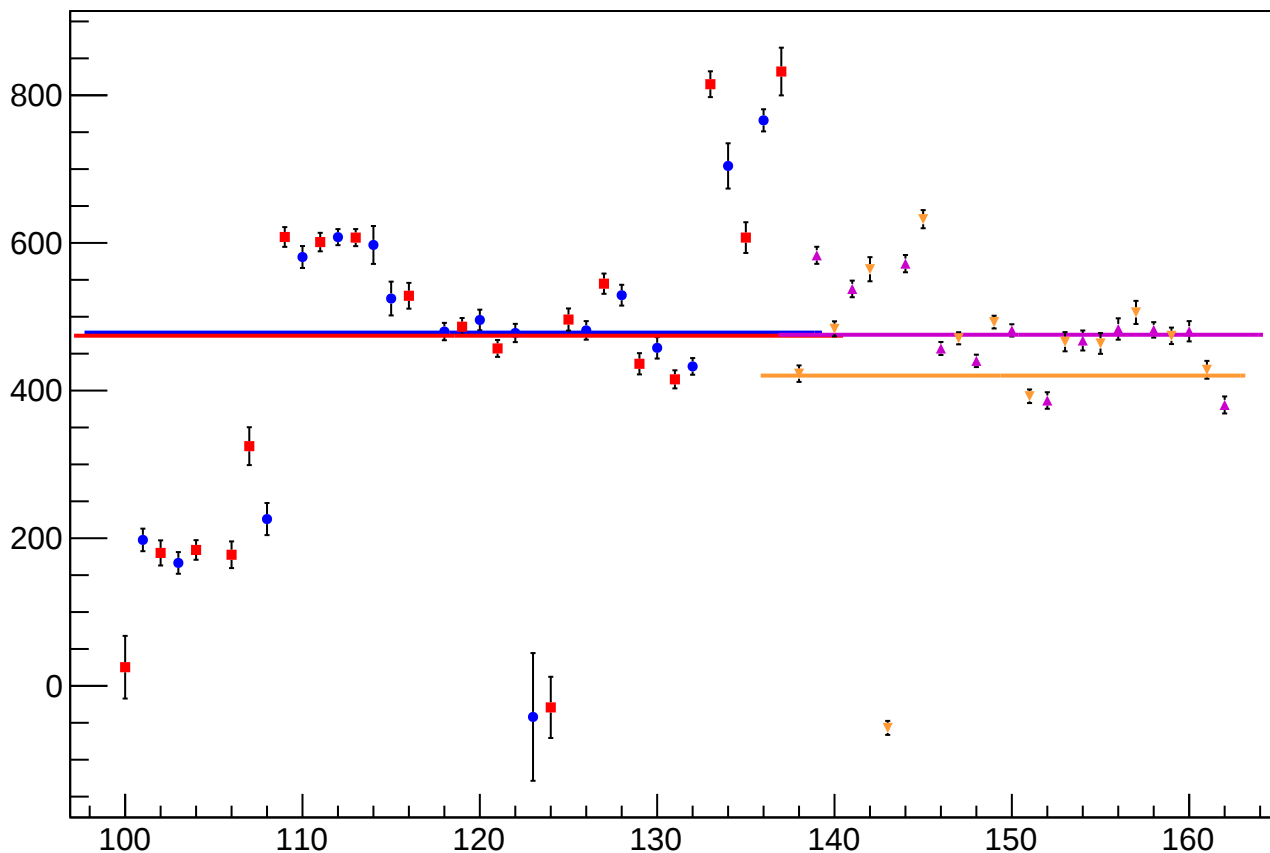
Right:  $-1.296 \pm 1.346$   $\chi^2/\text{NDF}$ : 621.6/35

In:  $3.495 \pm 1.411$   $\chi^2/\text{NDF}$ : 452.7/28

Out:  $5.739 \pm 1.386$   $\chi^2/\text{NDF}$ : 444.5/31

All:  $4.637 \pm 0.989$   $\chi^2/\text{NDF}$ : 898.5/60

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.526+/-3.630  $\chi^2/\text{NDF}$ : 1629.0/16

Left Out: 420.312+/-3.029  $\chi^2/\text{NDF}$ : 3129.5/12

Right Out: 474.328+/-3.533  $\chi^2/\text{NDF}$ : 2287.1/18

Left In: 475.609+/-3.097  $\chi^2/\text{NDF}$ : 339.7/11

Left: 447.350+/-2.165  $\chi^2/\text{NDF}$ : 3632.1/24

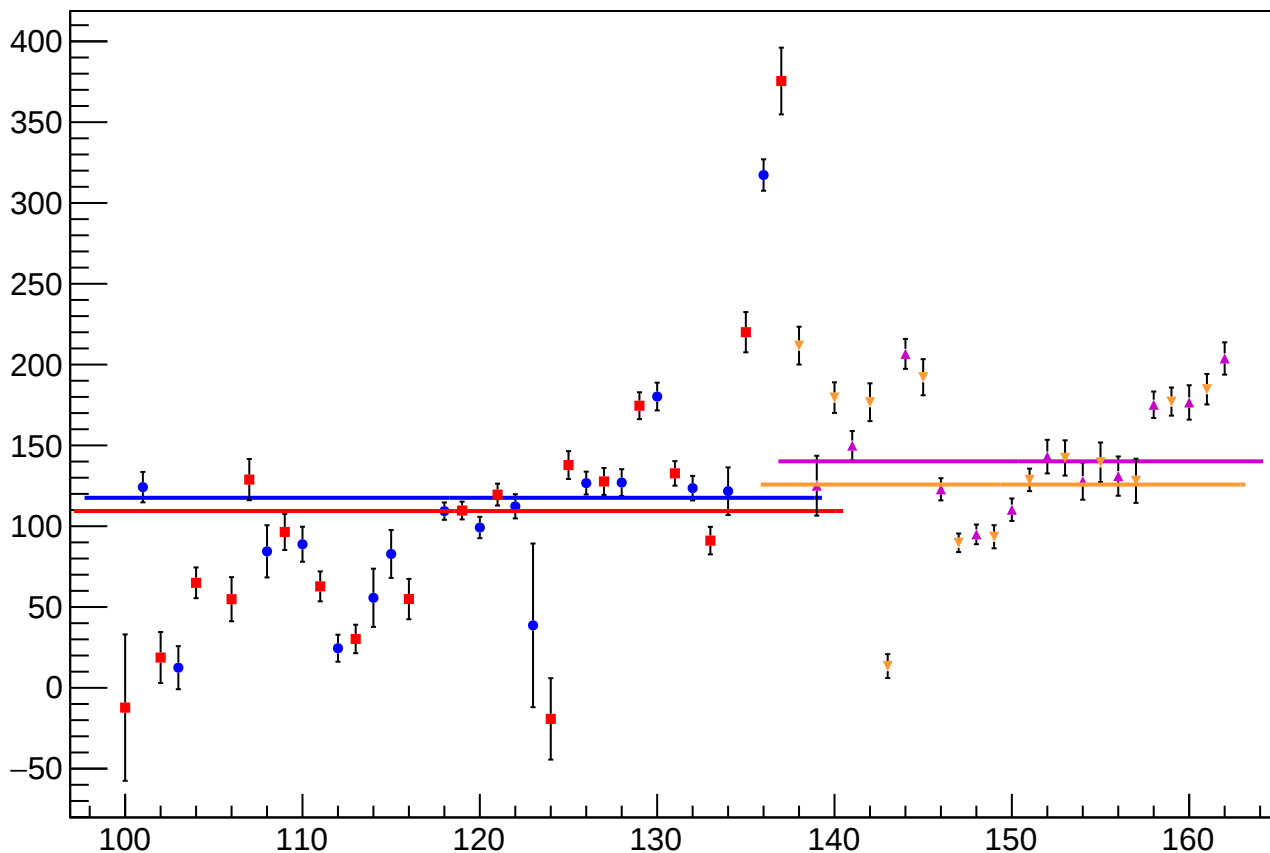
Right: 476.370+/-2.532  $\chi^2/\text{NDF}$ : 3916.8/35

In: 476.838+/-2.356  $\chi^2/\text{NDF}$ : 1969.0/28

Out: 443.198+/-2.299  $\chi^2/\text{NDF}$ : 5551.4/31

All: 459.610+/-1.646  $\chi^2/\text{NDF}$ : 7624.8/60

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $117.585 \pm 2.193$   $\chi^2/\text{NDF}: 706.9/16$

Left Out:  $125.774 \pm 2.442$   $\chi^2/\text{NDF}: 508.9/12$

Right Out:  $109.400 \pm 2.210$   $\chi^2/\text{NDF}: 571.2/18$

Left In:  $140.149 \pm 2.557$   $\chi^2/\text{NDF}: 205.6/11$

Left:  $132.632 \pm 1.766$   $\chi^2/\text{NDF}: 731.1/24$

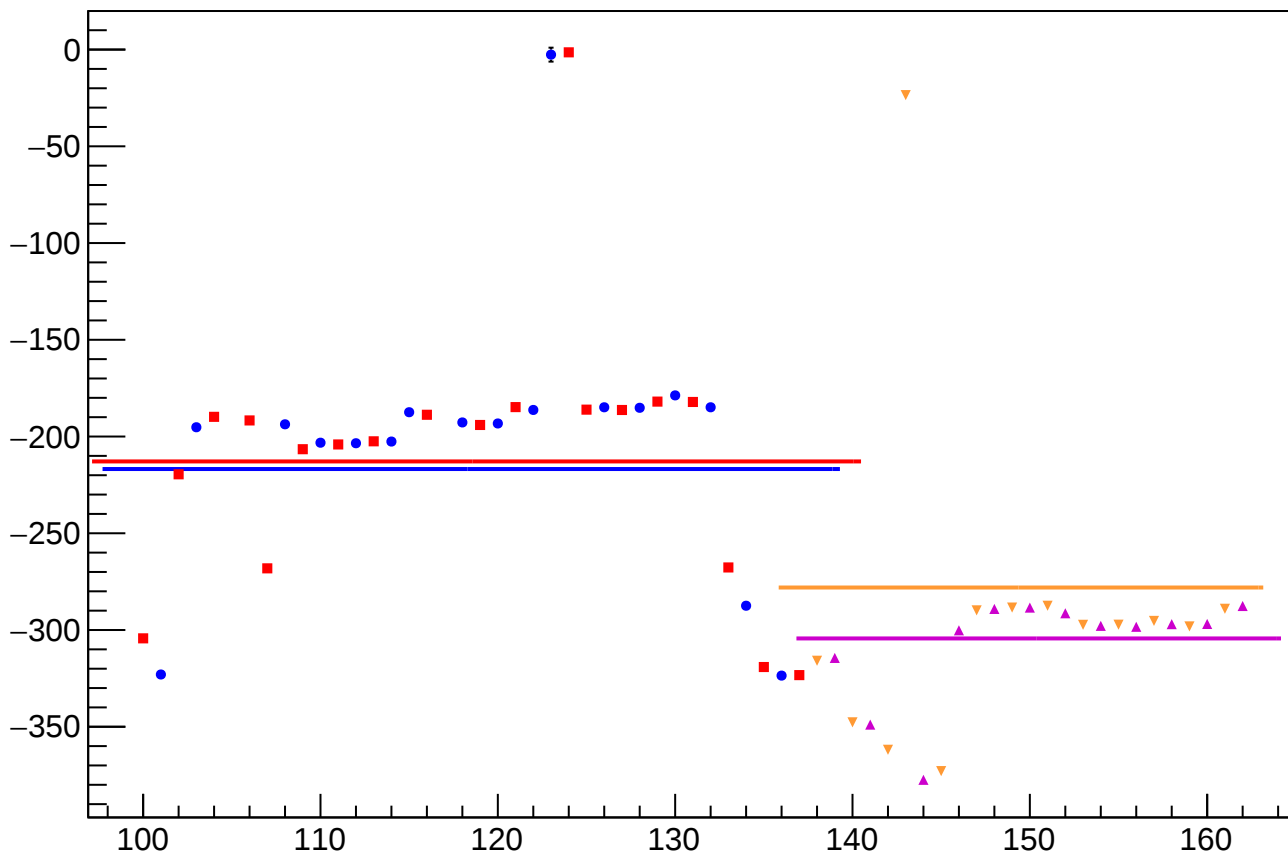
Right:  $113.524 \pm 1.557$   $\chi^2/\text{NDF}: 1285.0/35$

In:  $127.146 \pm 1.665$   $\chi^2/\text{NDF}: 957.4/28$

Out:  $116.770 \pm 1.639$   $\chi^2/\text{NDF}: 1104.8/31$

All:  $121.876 \pm 1.168$   $\chi^2/\text{NDF}: 2082.0/60$

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-216.796 \pm 0.136$   $\chi^2/\text{NDF}: 146976.1/16$

Left Out:  $-278.035 \pm 0.122$   $\chi^2/\text{NDF}: 544007.5/12$

Right Out:  $-212.869 \pm 0.130$   $\chi^2/\text{NDF}: 116393.6/18$

Left In:  $-304.358 \pm 0.123$   $\chi^2/\text{NDF}: 37585.3/11$

Left:  $-291.079 \pm 0.087$   $\chi^2/\text{NDF}: 604672.5/24$

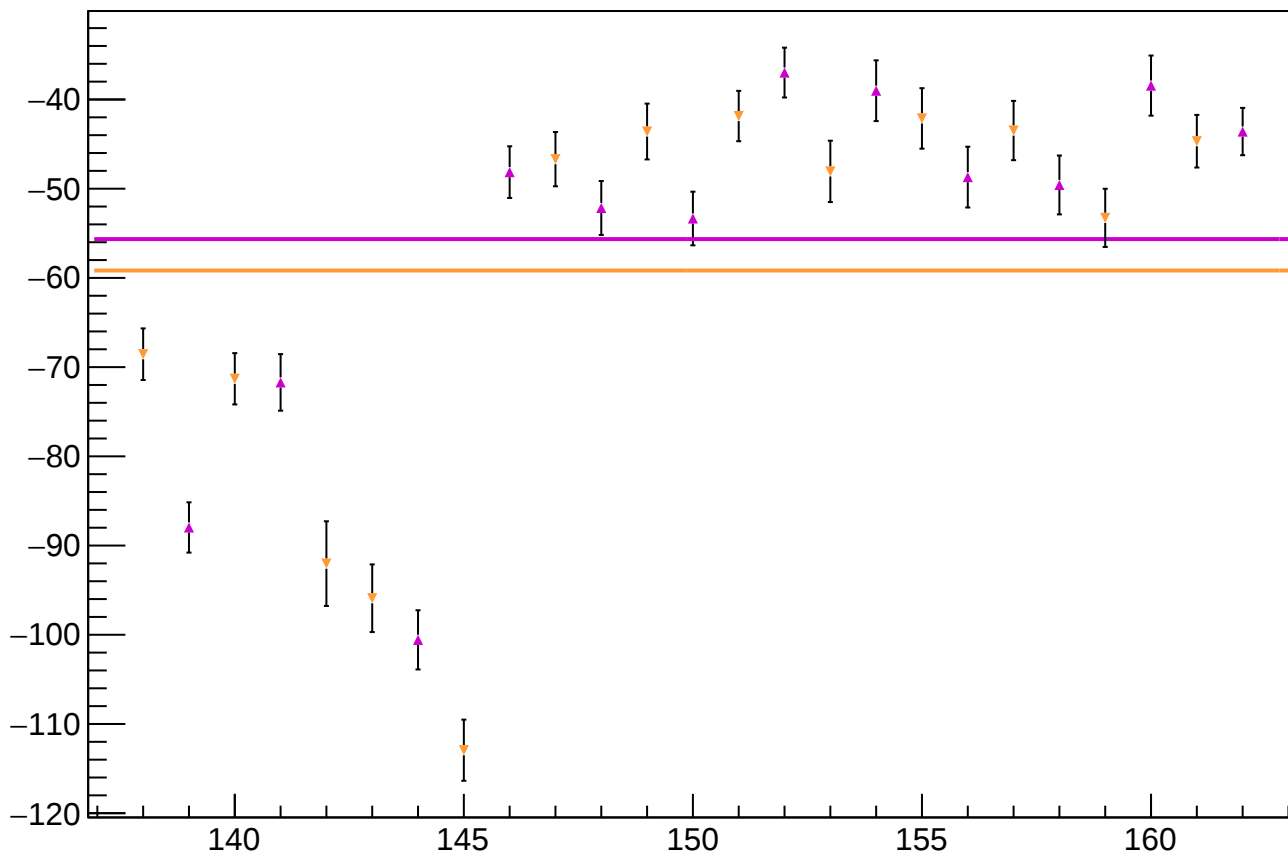
Right:  $-214.751 \pm 0.094$   $\chi^2/\text{NDF}: 263806.1/35$

In:  $-264.827 \pm 0.091$   $\chi^2/\text{NDF}: 413115.4/28$

Out:  $-247.565 \pm 0.089$   $\chi^2/\text{NDF}: 793877.5/31$

All:  $-255.990 \pm 0.064$   $\chi^2/\text{NDF}: 1225354.5/60$

reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



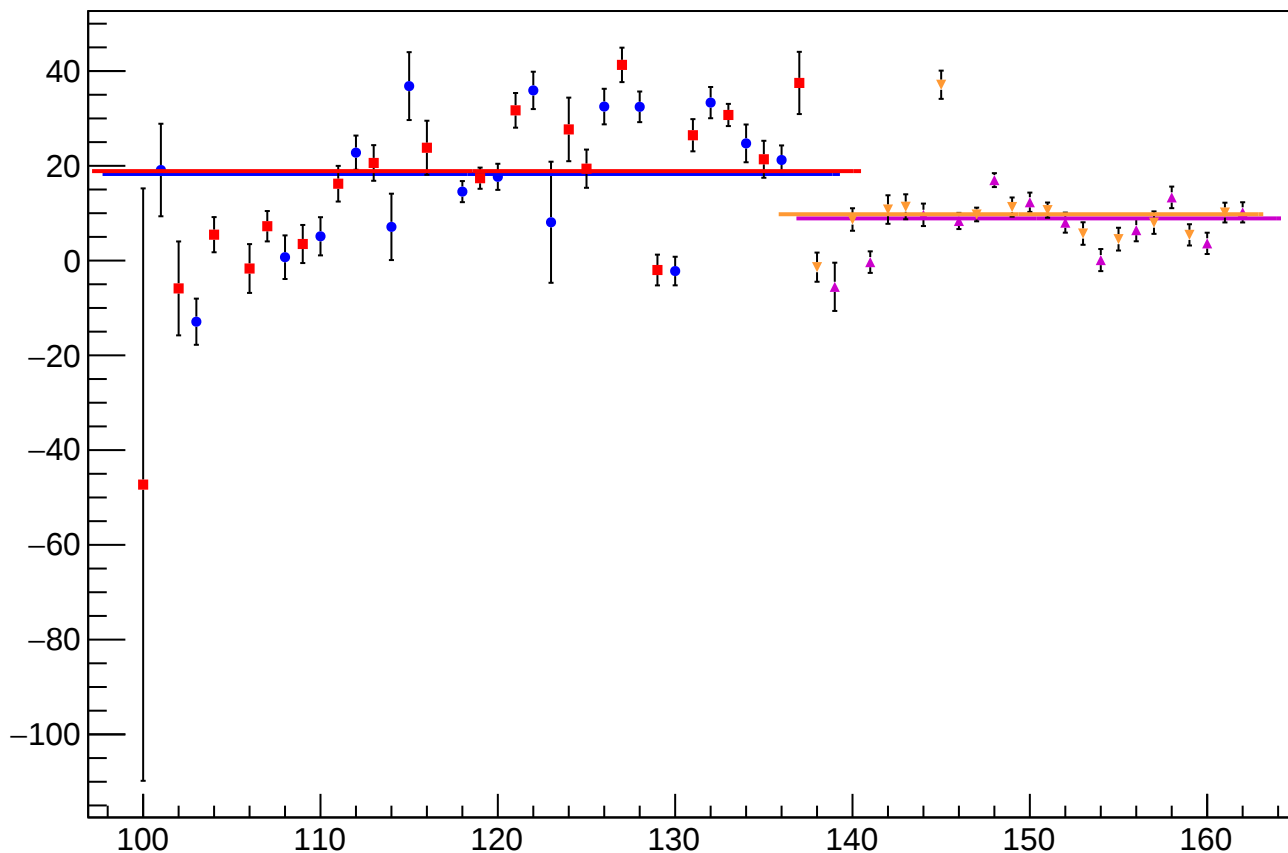
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-59.168 \pm 0.896$   $\chi^2/\text{NDF}: 580.8/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-55.647 \pm 0.884$   $\chi^2/\text{NDF}: 471.8/11$

Left:  $-57.385 \pm 0.629$   $\chi^2/\text{NDF}: 1060.4/24$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-55.647 \pm 0.884$   $\chi^2/\text{NDF}: 471.8/11$   
 Out:  $-59.168 \pm 0.896$   $\chi^2/\text{NDF}: 580.8/12$

All:  $-57.385 \pm 0.629$   $\chi^2/\text{NDF}: 1060.4/24$

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.279 \pm 0.906$   $\chi^2/\text{NDF}$ : 204.6/16

Left Out:  $9.781 \pm 0.606$   $\chi^2/\text{NDF}$ : 110.8/12

Right Out:  $18.882 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.4/18

Left In:  $8.903 \pm 0.614$   $\chi^2/\text{NDF}$ : 82.9/11

Left:  $9.347 \pm 0.431$   $\chi^2/\text{NDF}$ : 194.8/24

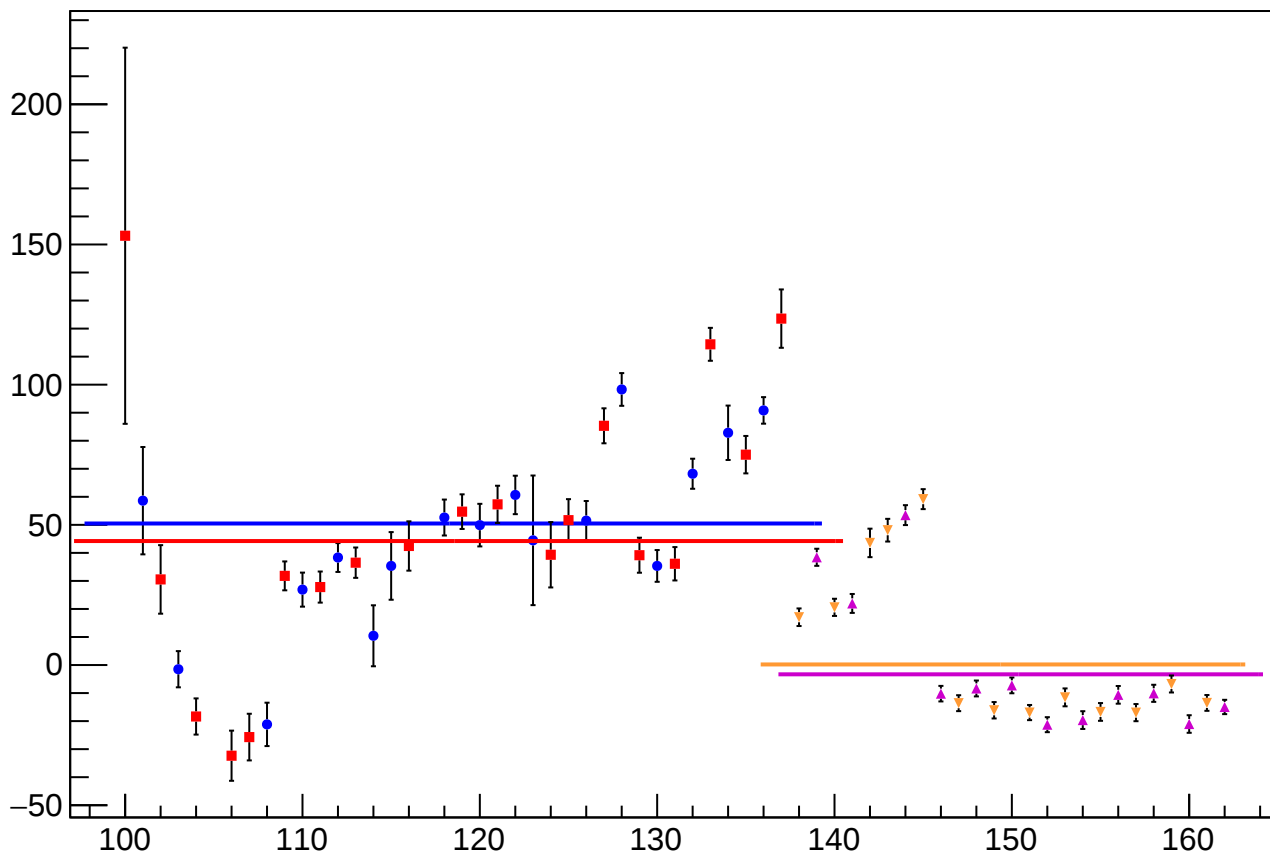
Right:  $18.595 \pm 0.625$   $\chi^2/\text{NDF}$ : 403.2/35

In:  $11.854 \pm 0.508$   $\chi^2/\text{NDF}$ : 361.0/28

Out:  $12.780 \pm 0.496$   $\chi^2/\text{NDF}$ : 383.6/31

All:  $12.328 \pm 0.355$   $\chi^2/\text{NDF}$ : 746.2/60

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $50.482 \pm 1.668$   $\chi^2/\text{NDF}: 357.9/16$

Left Out:  $0.209 \pm 0.875$   $\chi^2/\text{NDF}: 758.0/12$

Right Out:  $44.222 \pm 1.602$   $\chi^2/\text{NDF}: 534.4/18$

Left In:  $-3.313 \pm 0.858$   $\chi^2/\text{NDF}: 645.3/11$

Left:  $-1.588 \pm 0.613$   $\chi^2/\text{NDF}: 1411.6/24$

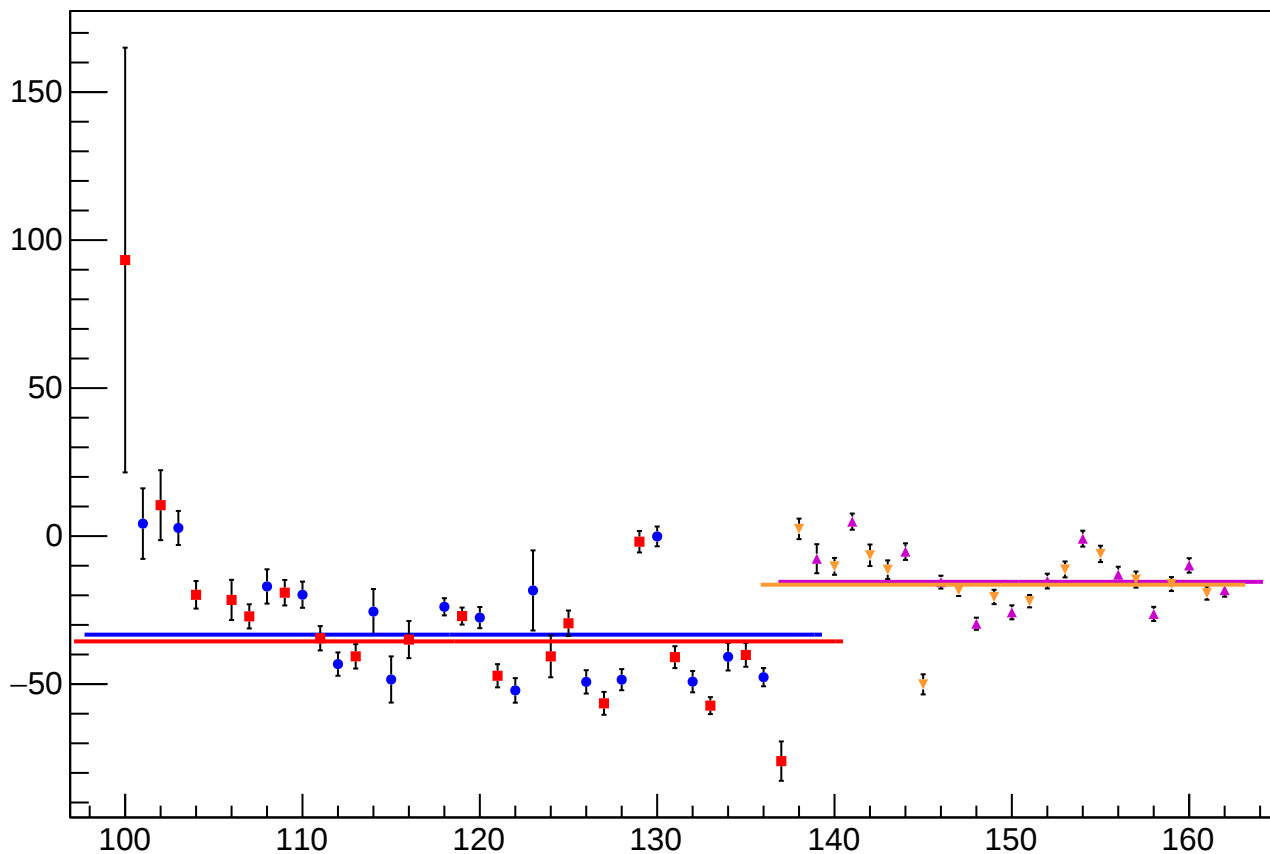
Right:  $47.226 \pm 1.156$   $\chi^2/\text{NDF}: 899.6/35$

In:  $7.940 \pm 0.763$   $\chi^2/\text{NDF}: 1825.8/28$

Out:  $10.326 \pm 0.768$   $\chi^2/\text{NDF}: 1873.3/31$

All:  $9.125 \pm 0.541$   $\chi^2/\text{NDF}: 3704.0/60$

reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.292 \pm 1.033$   $\chi^2/\text{NDF}$ : 289.1/16

Left Out:  $-16.418 \pm 0.724$   $\chi^2/\text{NDF}$ : 173.3/12

Right Out:  $-35.566 \pm 0.992$   $\chi^2/\text{NDF}$ : 287.6/18

Left In:  $-15.448 \pm 0.723$   $\chi^2/\text{NDF}$ : 195.4/11

Left:  $-15.932 \pm 0.512$   $\chi^2/\text{NDF}$ : 369.6/24

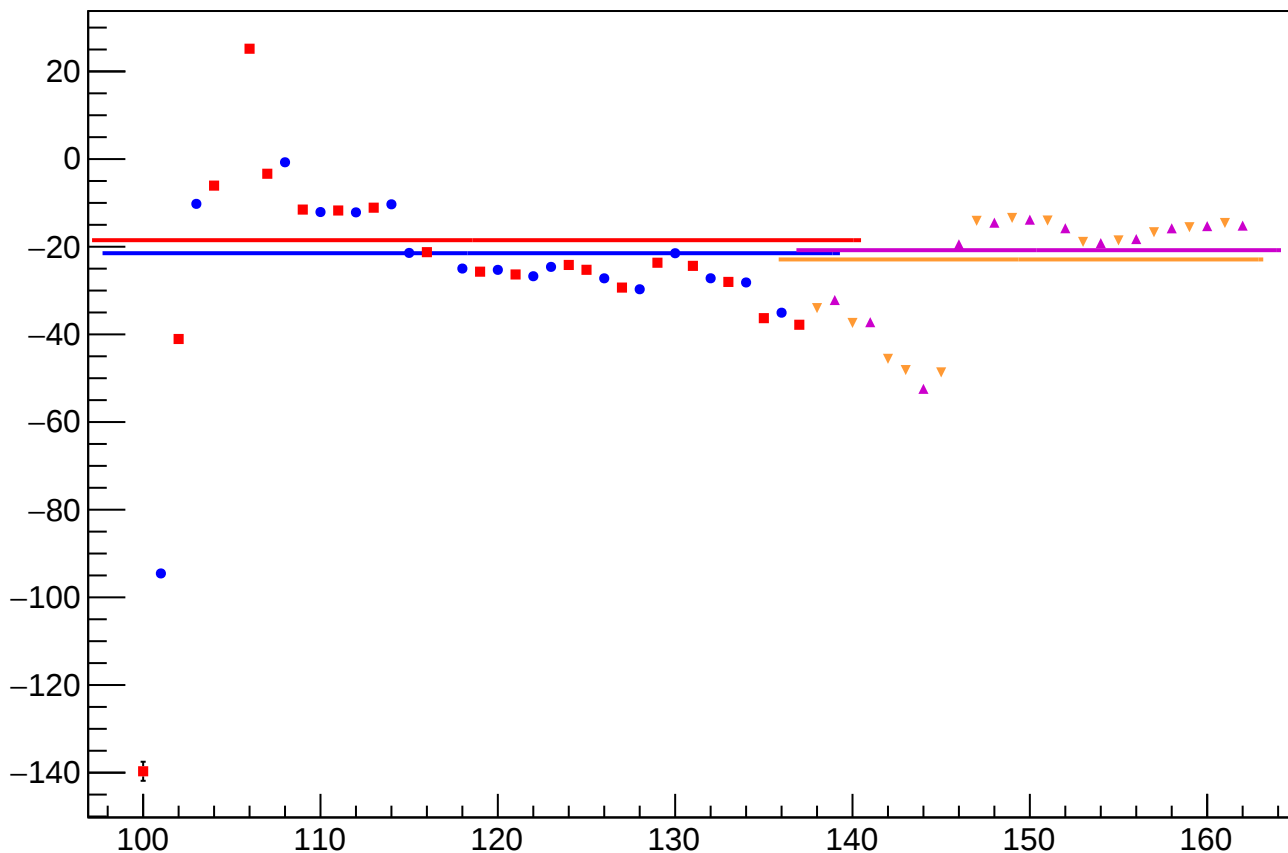
Right:  $-34.474 \pm 0.716$   $\chi^2/\text{NDF}$ : 579.3/35

In:  $-21.314 \pm 0.592$   $\chi^2/\text{NDF}$ : 684.7/28

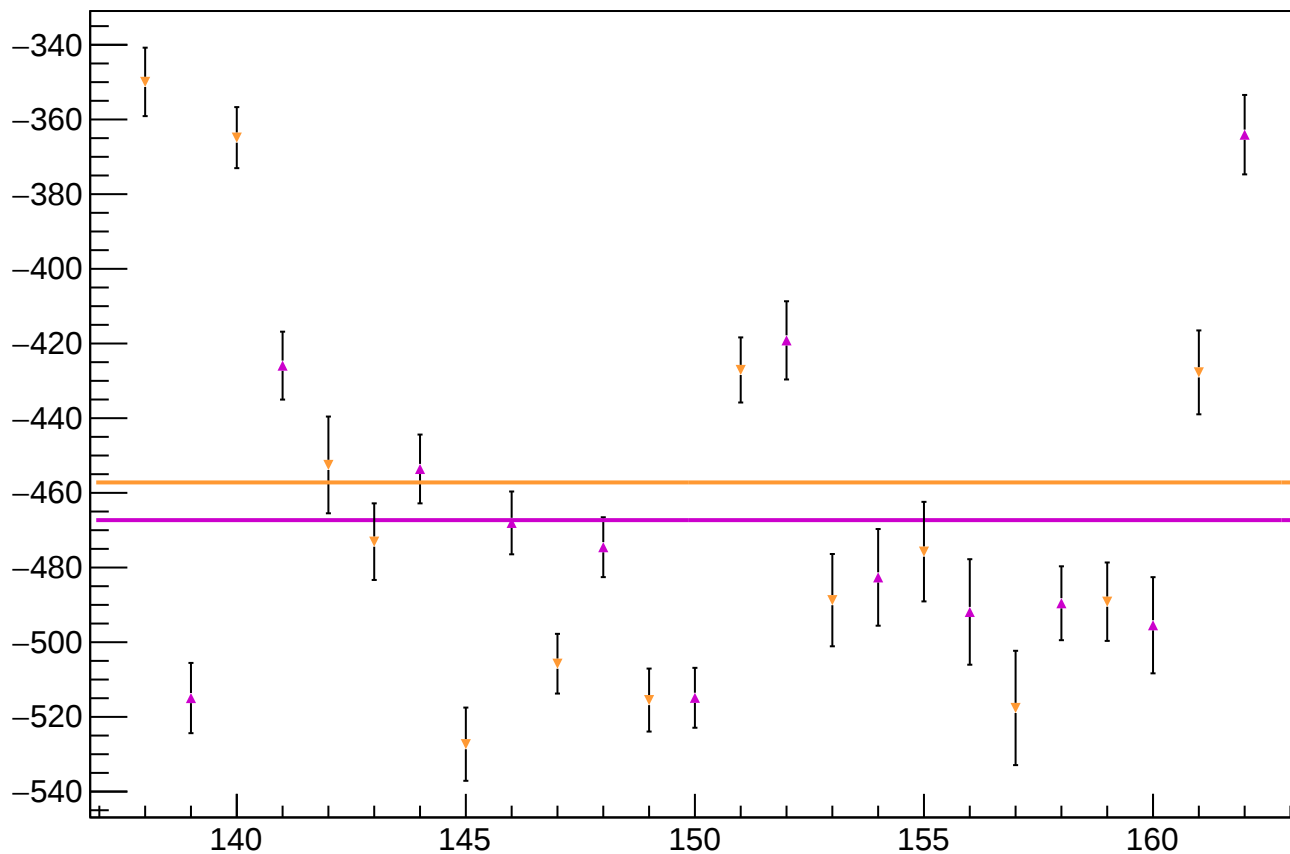
Out:  $-23.068 \pm 0.585$   $\chi^2/\text{NDF}$ : 703.9/31

All:  $-22.202 \pm 0.416$   $\chi^2/\text{NDF}$ : 1393.1/60

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -457.207+/-2.784  $\chi^2/\text{NDF}$ :454.9/12

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

Left In: -467.303+/-2.822  $\chi^2/\text{NDF}$ :214.2/11

Left: -462.187+/-1.982  $\chi^2/\text{NDF}$ : 675.6/24

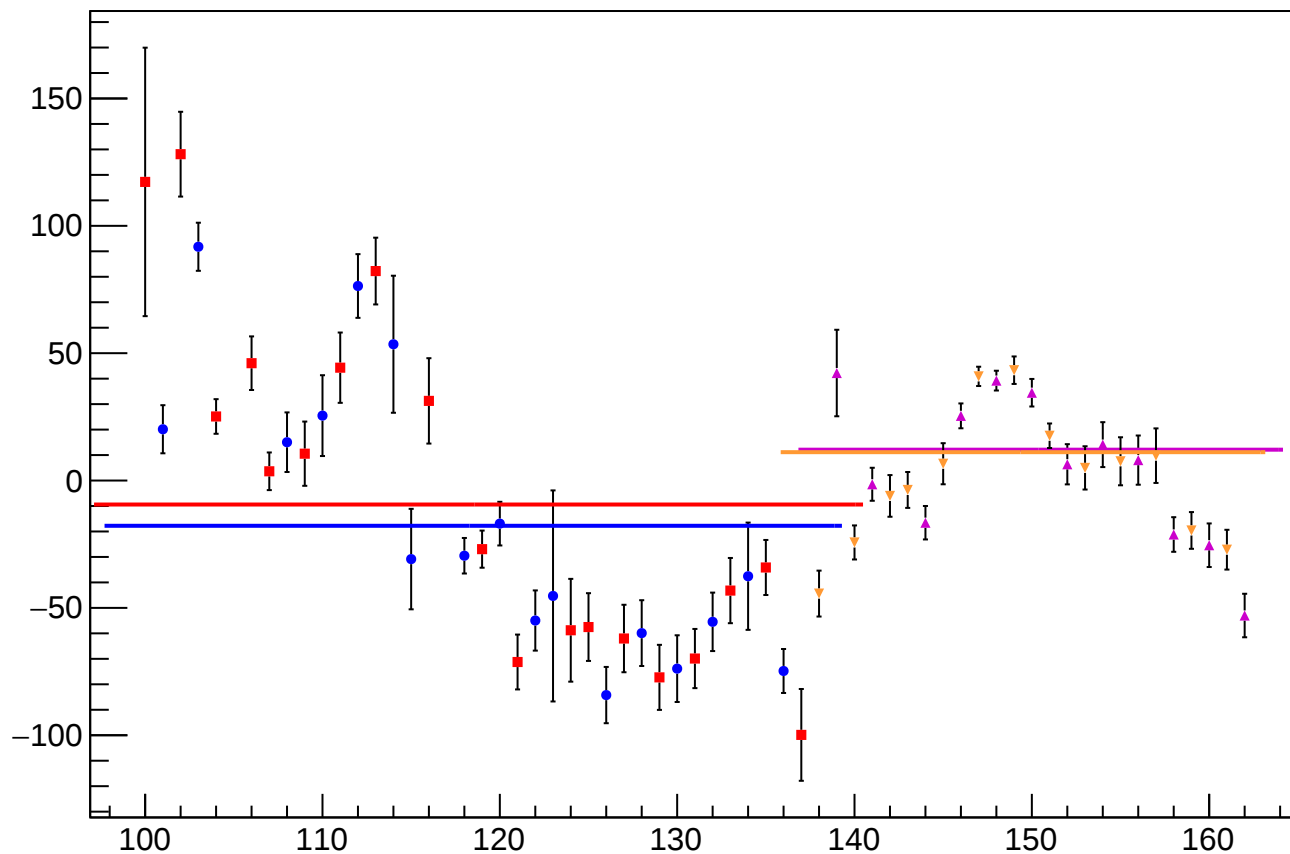
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -467.303+/-2.822  $\chi^2/\text{NDF}$ :214.2/11

Out: -457.207+/-2.784  $\chi^2/\text{NDF}$ :454.9/12

All: -462.187+/-1.982  $\chi^2/\text{NDF}$ : 675.6/24

reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-17.765 \pm 2.781$   $\chi^2/\text{NDF}$ : 363.9/16

Left Out:  $11.137 \pm 1.820$   $\chi^2/\text{NDF}$ : 217.2/12

Right Out:  $-9.417 \pm 2.613$   $\chi^2/\text{NDF}$ : 369.6/18

Left In:  $12.114 \pm 1.884$   $\chi^2/\text{NDF}$ : 202.0/11

Left:  $11.608 \pm 1.309$   $\chi^2/\text{NDF}$ : 419.3/24

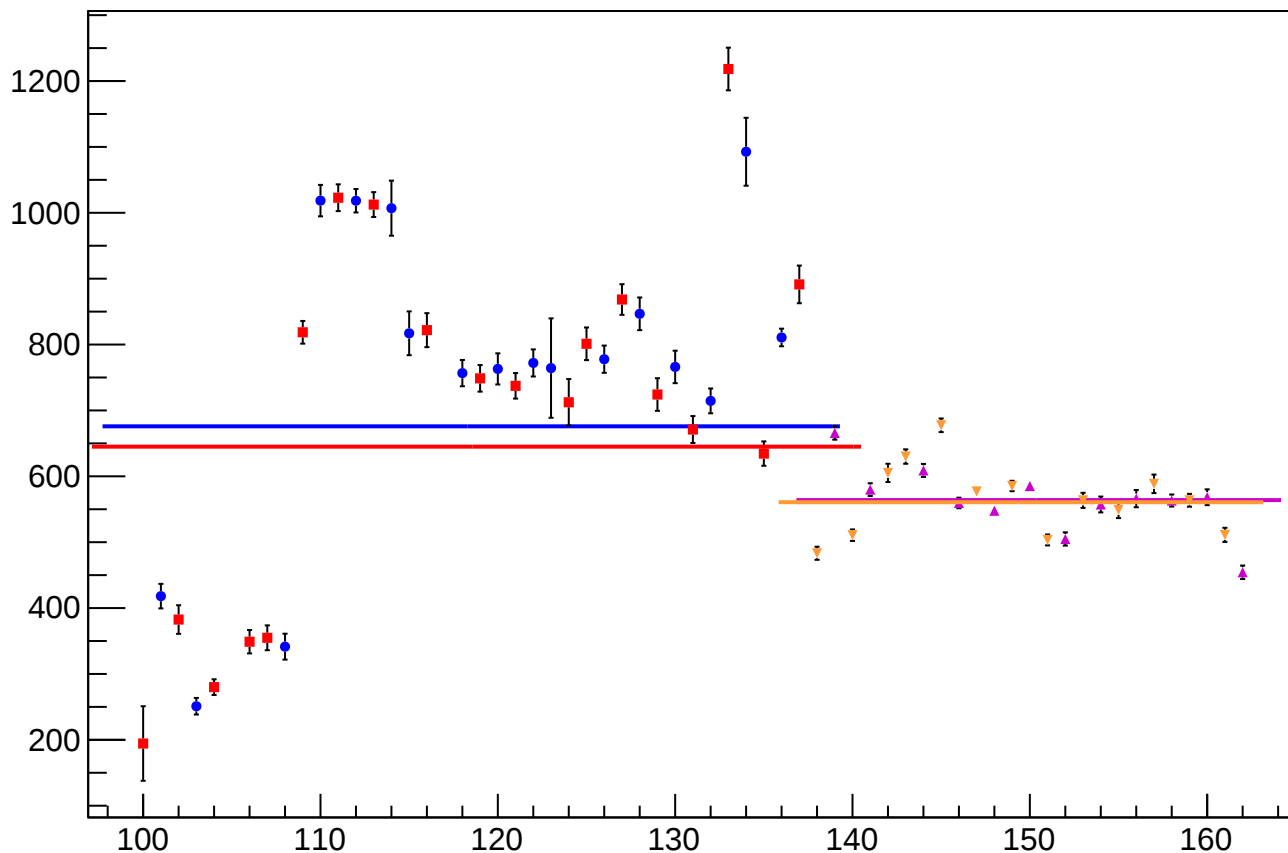
Right:  $-13.331 \pm 1.905$   $\chi^2/\text{NDF}$ : 738.2/35

In:  $2.715 \pm 1.560$   $\chi^2/\text{NDF}$ : 644.9/28

Out:  $4.422 \pm 1.494$   $\chi^2/\text{NDF}$ : 628.4/31

All:  $3.605 \pm 1.079$   $\chi^2/\text{NDF}$ : 1274.0/60

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $675.871 \pm 5.037$   $\chi^2/\text{NDF}: 2586.4/16$

Left Out:  $560.691 \pm 2.741$   $\chi^2/\text{NDF}: 360.1/12$

Right Out:  $645.014 \pm 4.761$   $\chi^2/\text{NDF}: 3123.3/18$

Left In:  $563.893 \pm 2.745$   $\chi^2/\text{NDF}: 286.3/11$

Left:  $562.290 \pm 1.939$   $\chi^2/\text{NDF}: 647.1/24$

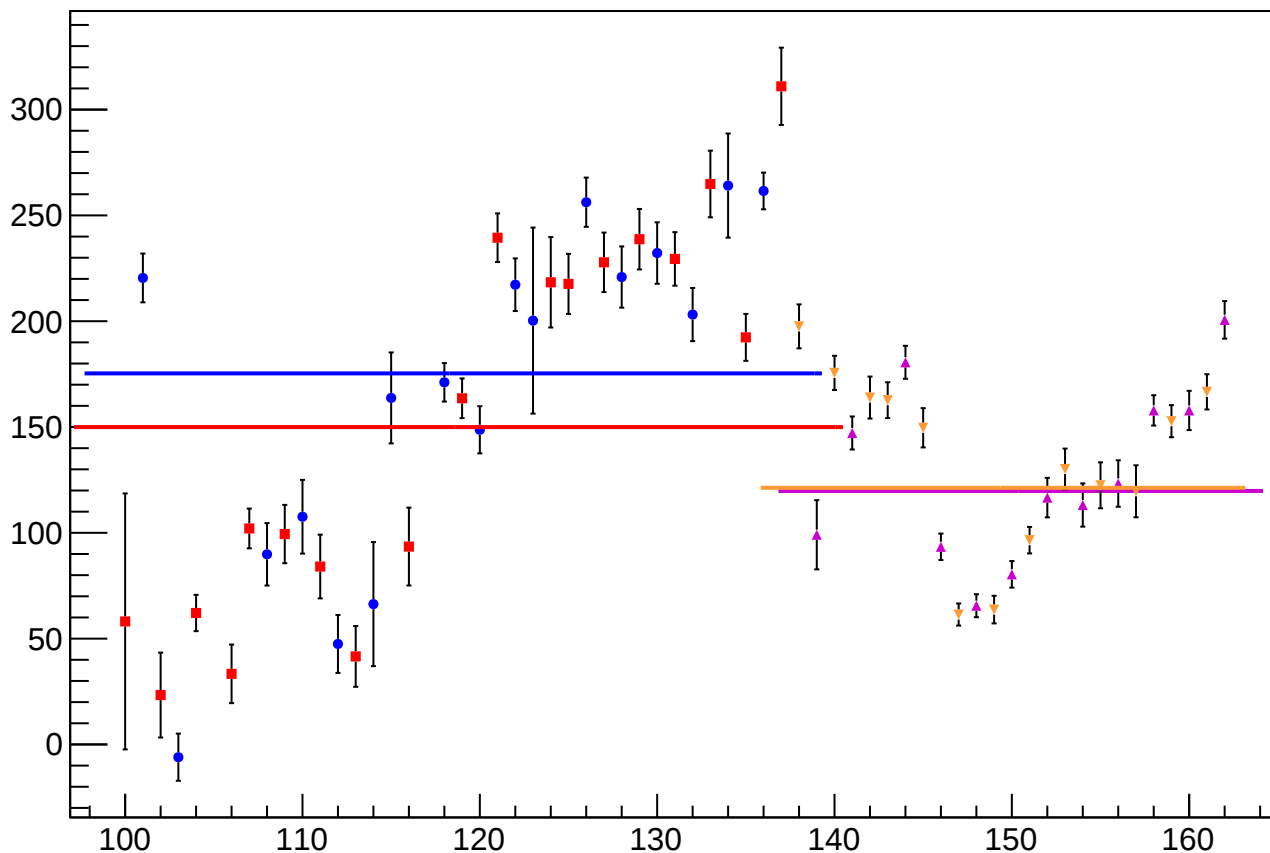
Right:  $659.573 \pm 3.460$   $\chi^2/\text{NDF}: 5729.5/35$

In:  $589.527 \pm 2.410$   $\chi^2/\text{NDF}: 3253.8/28$

Out:  $581.680 \pm 2.375$   $\chi^2/\text{NDF}: 3719.0/31$

All:  $585.547 \pm 1.692$   $\chi^2/\text{NDF}: 6978.1/60$

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 175.341+/-3.203  $\chi^2/\text{NDF}$ : 638.5/16

Left Out: 121.273+/-2.216  $\chi^2/\text{NDF}$ : 423.3/12

Right Out: 149.966+/-3.045  $\chi^2/\text{NDF}$ : 693.2/18

Left In: 119.783+/-2.266  $\chi^2/\text{NDF}$ : 360.4/11

Left: 120.545+/-1.585  $\chi^2/\text{NDF}$ : 783.9/24

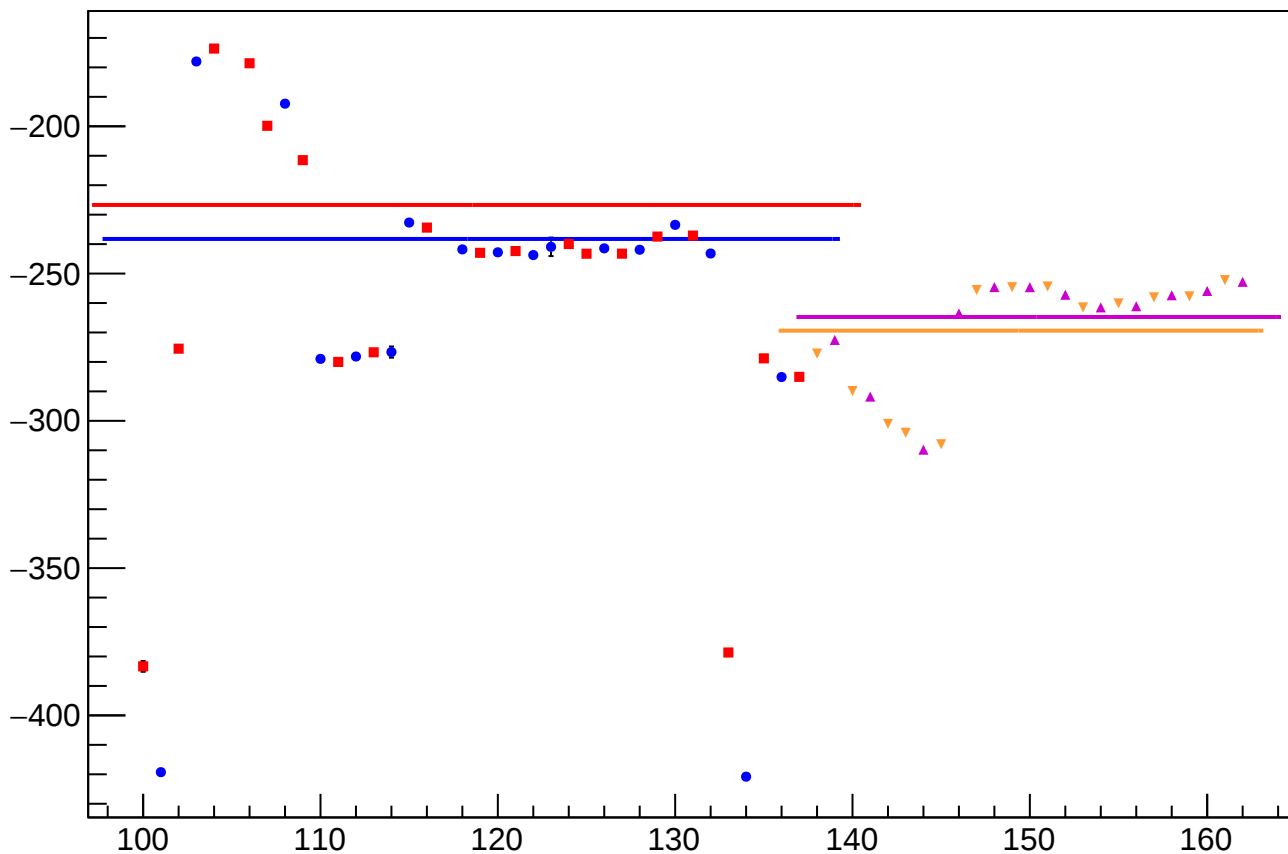
Right: 162.013+/-2.207  $\chi^2/\text{NDF}$ : 1364.6/35

In: 138.321+/-1.850  $\chi^2/\text{NDF}$ : 1199.3/28

Out: 131.209+/-1.792  $\chi^2/\text{NDF}$ : 1174.5/31

All: 134.652+/-1.287  $\chi^2/\text{NDF}$ : 2381.5/60

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -238.248+/-0.160  $\chi^2/\text{NDF}$ : 167125.9/16

Left Out: -269.381+/-0.110  $\chi^2/\text{NDF}$ :31159.6/12

Right Out: -226.706+/-0.151  $\chi^2/\text{NDF}$ : 102831.3/18

Left In: -264.740+/-0.109  $\chi^2/\text{NDF}$ :20455.2/11

Left: -267.034+/-0.078  $\chi^2/\text{NDF}$ : 52510.8/24

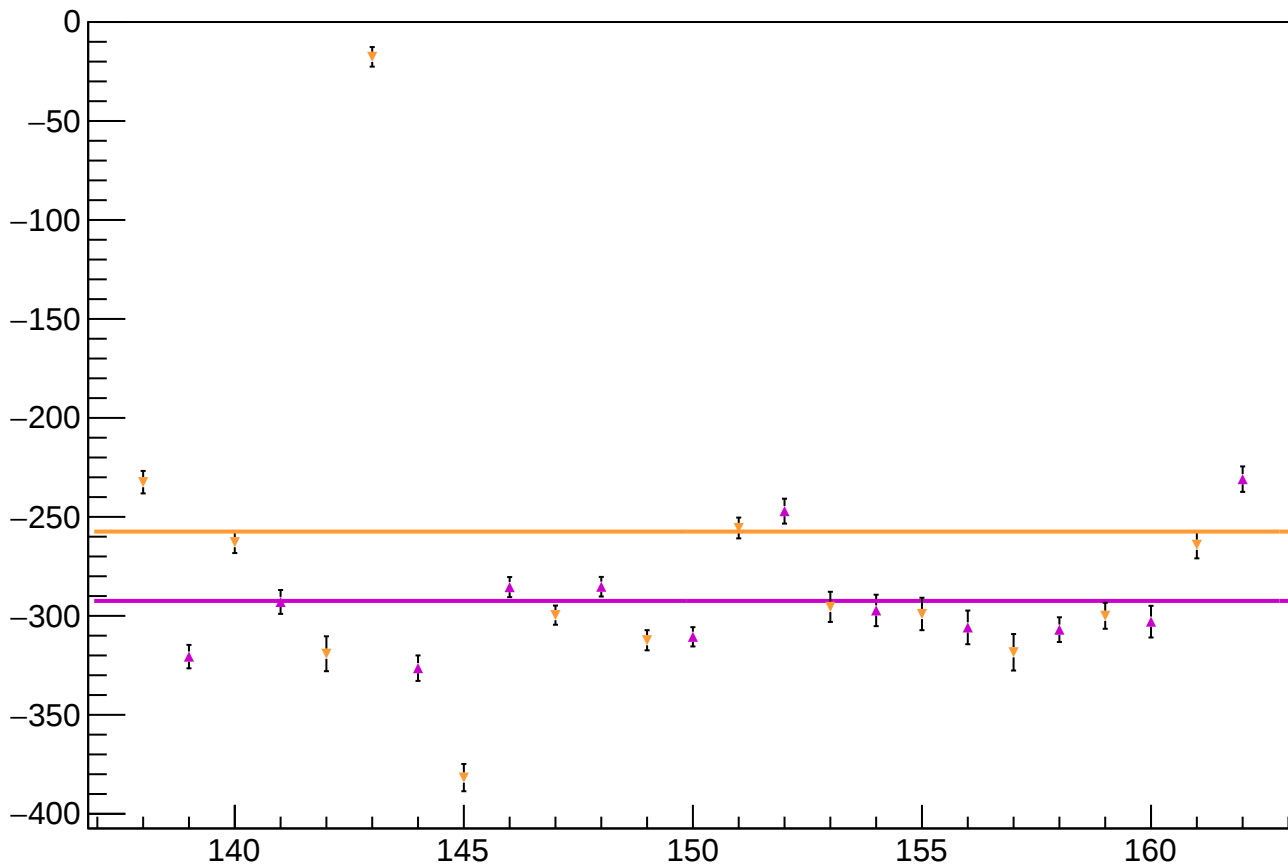
Right: -232.150+/-0.110  $\chi^2/\text{NDF}$ : 272709.4/35

In: -256.334+/-0.090  $\chi^2/\text{NDF}$ :206315.6/28

Out: -254.550+/-0.089  $\chi^2/\text{NDF}$ :186036.7/31

All: -255.432+/-0.063  $\chi^2/\text{NDF}$ : 392550.7/60

reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out:  $-257.418 \pm 1.703$   $\chi^2/\text{NDF}: 3075.8/12$

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

Left In:  $-292.456 \pm 1.762$   $\chi^2/\text{NDF}: 221.7/11$

Left:  $-274.338 \pm 1.224$   $\chi^2/\text{NDF}: 3502.0/24$

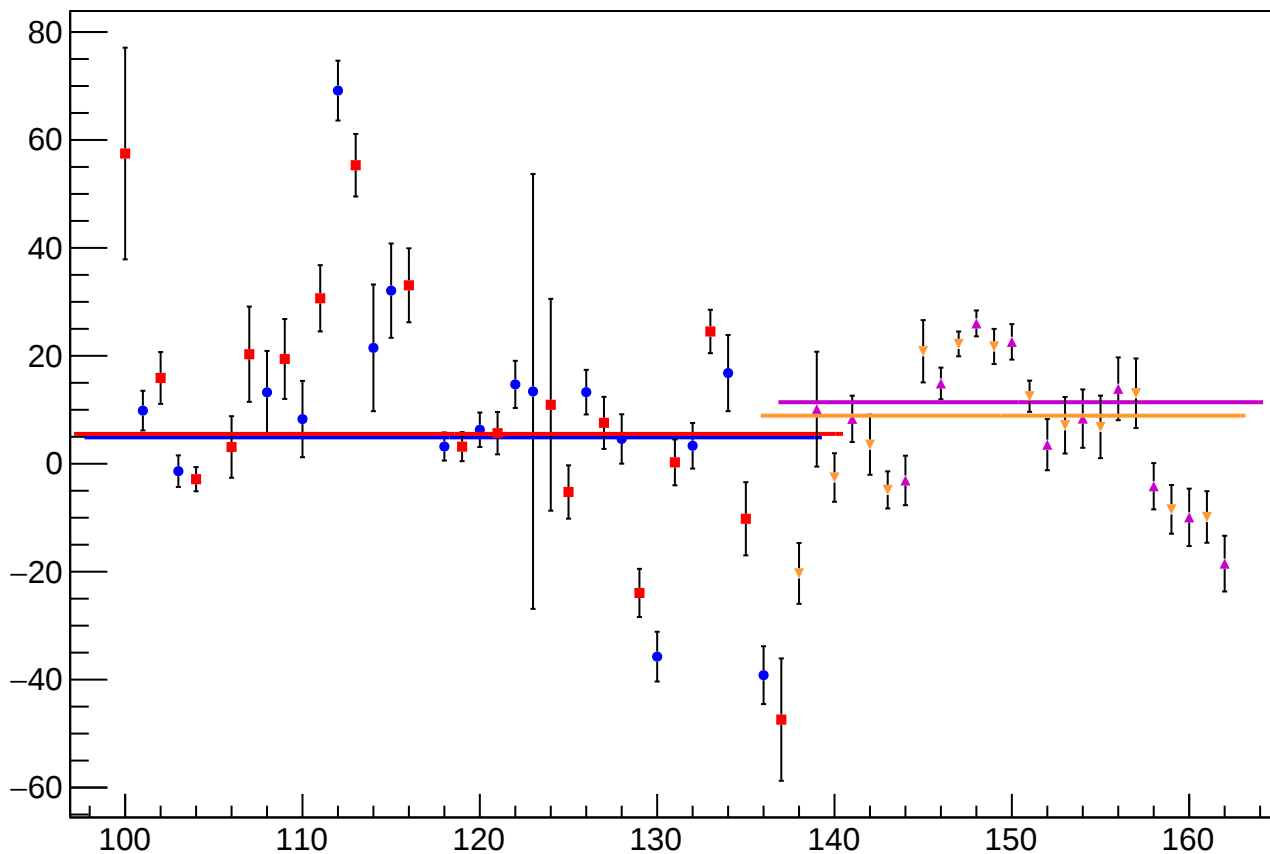
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-292.456 \pm 1.762$   $\chi^2/\text{NDF}: 221.7/11$

Out:  $-257.418 \pm 1.703$   $\chi^2/\text{NDF}: 3075.8/12$

All:  $-274.338 \pm 1.224$   $\chi^2/\text{NDF}: 3502.0/24$

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.896 $\pm$ 1.089  $\chi^2/\text{NDF}$ : 312.0/16

Left Out: 8.911 $\pm$ 1.108  $\chi^2/\text{NDF}$ :136.1/12

Right Out: 5.534 $\pm$ 1.071  $\chi^2/\text{NDF}$ : 239.1/18

Left In: 11.407 $\pm$ 1.172  $\chi^2/\text{NDF}$ :126.6/11

Left: 10.089 $\pm$ 0.805  $\chi^2/\text{NDF}$ : 265.1/24

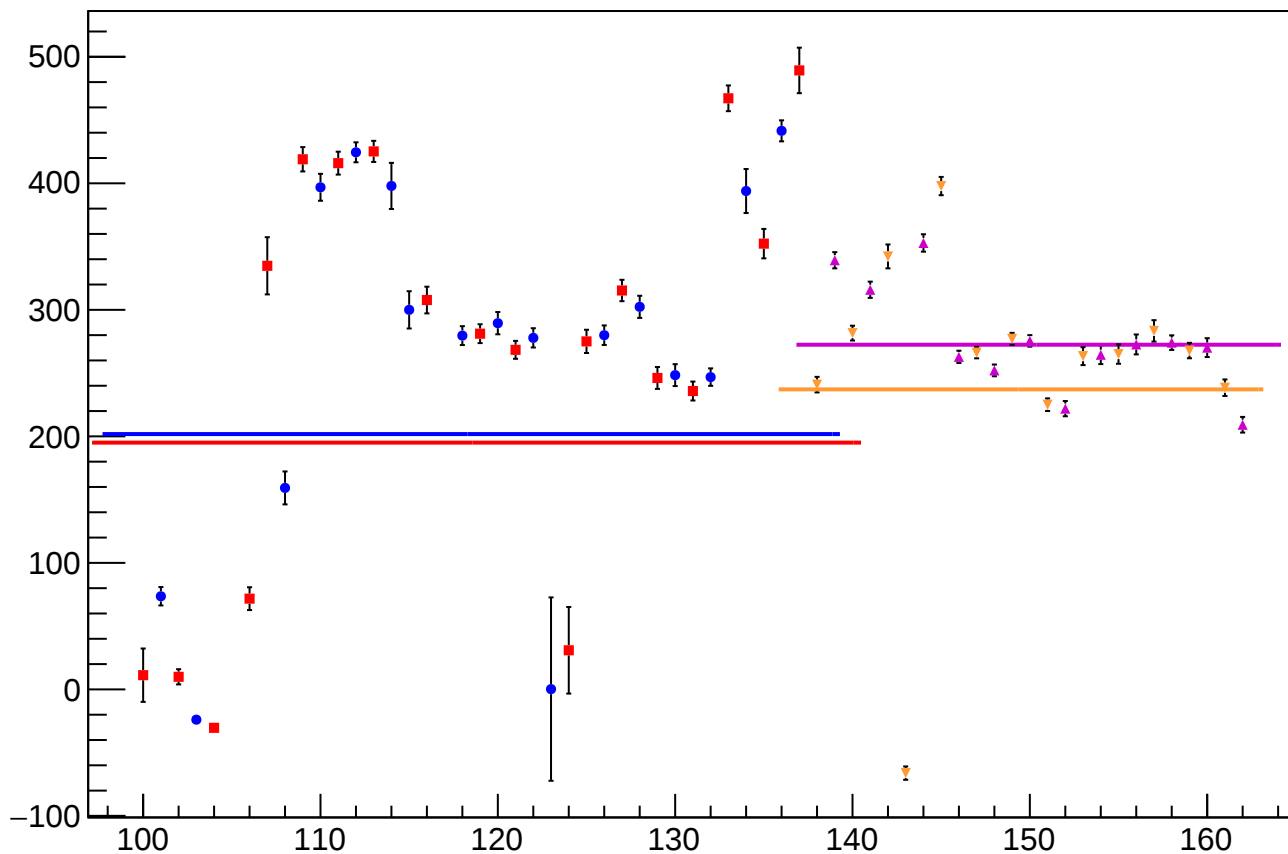
Right: 5.220 $\pm$ 0.764  $\chi^2/\text{NDF}$ : 551.3/35

In: 7.914 $\pm$ 0.798  $\chi^2/\text{NDF}$ :455.1/28

Out: 7.166 $\pm$ 0.770  $\chi^2/\text{NDF}$ :380.0/31

All: 7.526 $\pm$ 0.554  $\chi^2/\text{NDF}$ : 835.6/60

reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 201.807 $\pm$ 1.970  $\chi^2$ /NDF: 6754.2/16

Left Out: 237.131 $\pm$ 1.675  $\chi^2$ /NDF:4176.6/12

Right Out: 195.053 $\pm$ 1.924  $\chi^2$ /NDF: 8257.1/18

Left In: 272.426 $\pm$ 1.708  $\chi^2$ /NDF:490.3/11

Left: 254.438 $\pm$ 1.196  $\chi^2$ /NDF: 4884.6/24

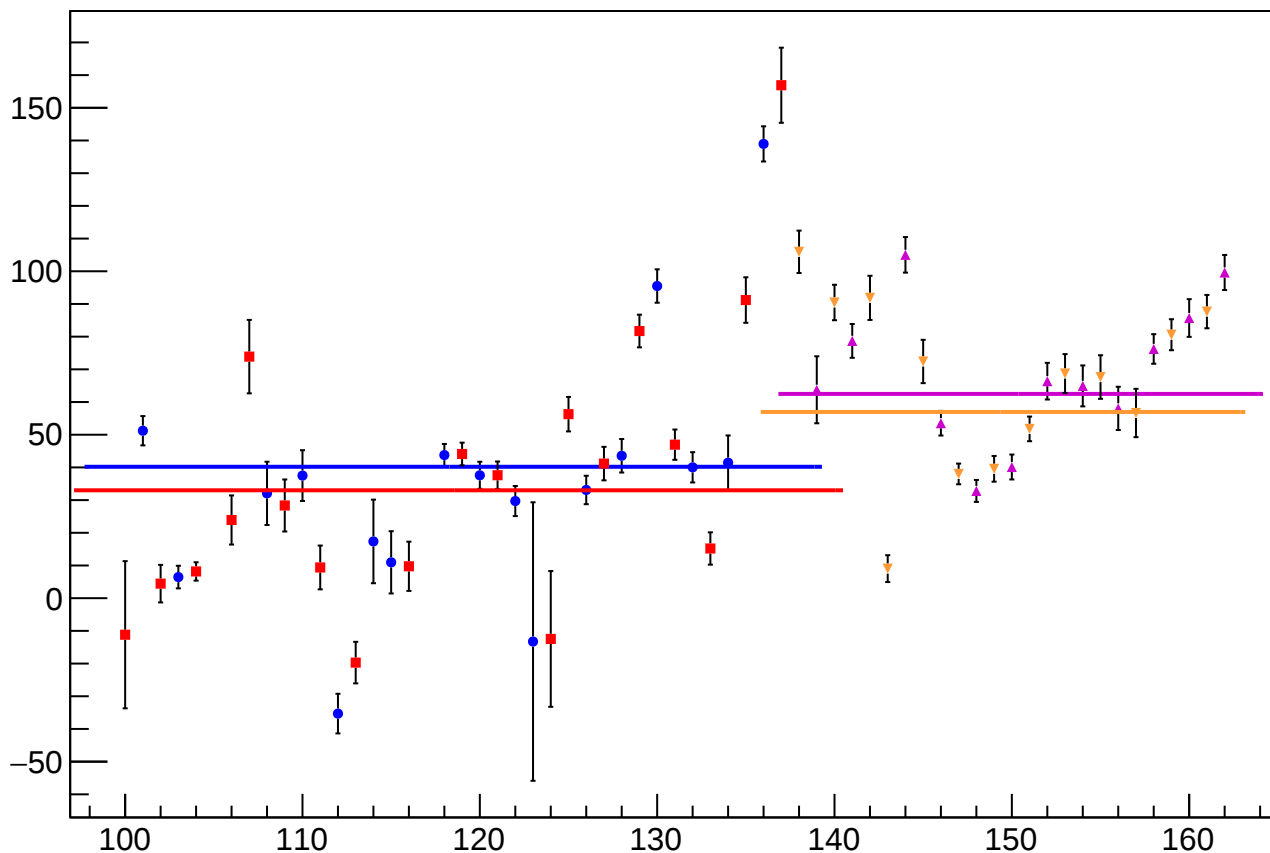
Right: 198.351 $\pm$ 1.377  $\chi^2$ /NDF: 15017.4/35

In: 242.136 $\pm$ 1.291  $\chi^2$ /NDF:7978.0/28

Out: 218.993 $\pm$ 1.263  $\chi^2$ /NDF:12705.7/31

All: 230.320 $\pm$ 0.903  $\chi^2$ /NDF: 20847.9/60

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $40.196 \pm 1.268$   $\chi^2/\text{NDF}: 735.0/16$

Left Out:  $56.962 \pm 1.350$   $\chi^2/\text{NDF}: 388.2/12$

Right Out:  $32.999 \pm 1.253$   $\chi^2/\text{NDF}: 554.1/18$

Left In:  $62.486 \pm 1.411$   $\chi^2/\text{NDF}: 263.6/11$

Left:  $59.602 \pm 0.975$   $\chi^2/\text{NDF}: 659.8/24$

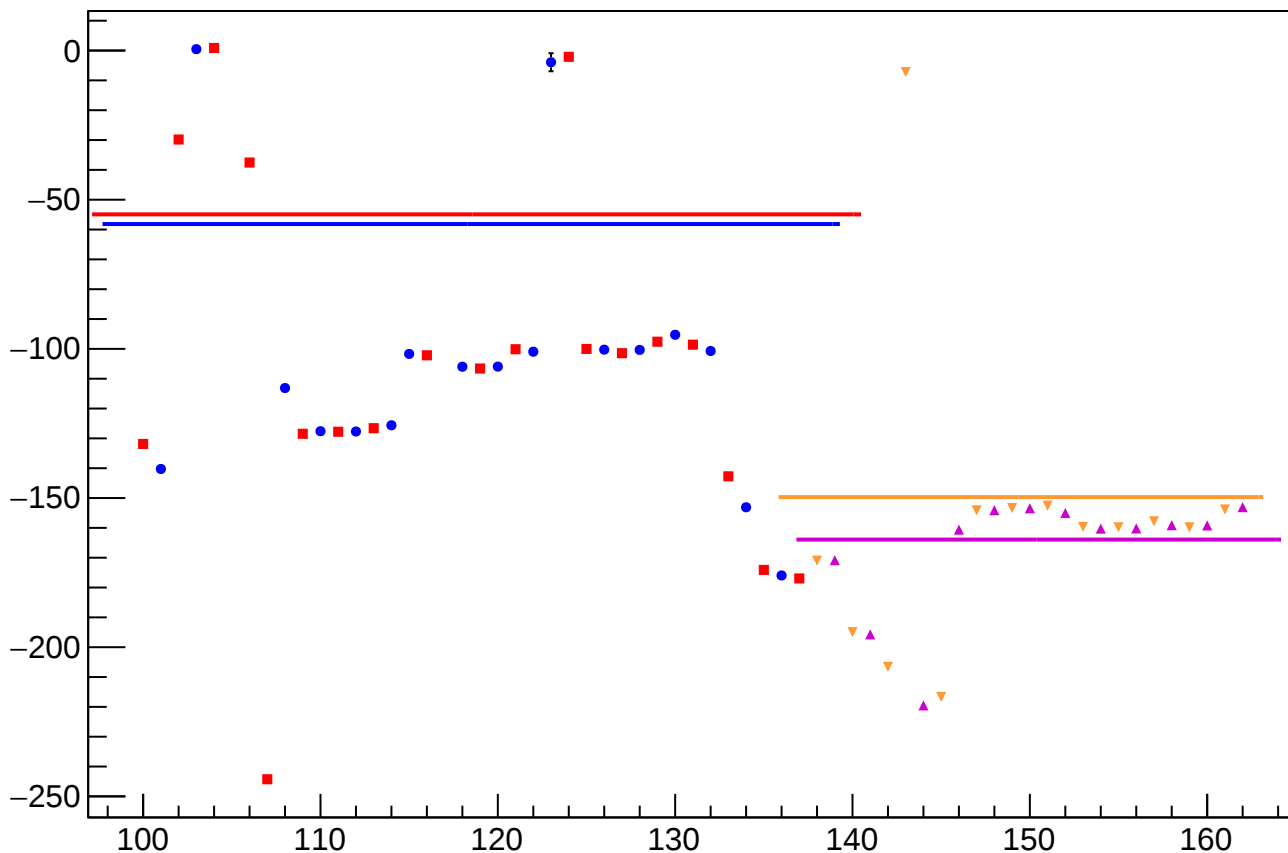
Right:  $36.555 \pm 0.891$   $\chi^2/\text{NDF}: 1305.3/35$

In:  $50.152 \pm 0.943$   $\chi^2/\text{NDF}: 1136.6/28$

Out:  $44.082 \pm 0.918$   $\chi^2/\text{NDF}: 1111.6/31$

All:  $47.037 \pm 0.658$   $\chi^2/\text{NDF}: 2269.5/60$

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -58.155 $\pm$ 0.062  $\chi^2$ /NDF: 1105509.3/16

Left Out: -149.685 $\pm$ 0.067  $\chi^2$ /NDF: 578891.2/12

Right Out: -54.914 $\pm$ 0.060  $\chi^2$ /NDF: 1003885.5/18

Left In: -163.922 $\pm$ 0.068  $\chi^2$ /NDF: 60043.6/11

Left: -156.758 $\pm$ 0.048  $\chi^2$ /NDF: 661135.6/24

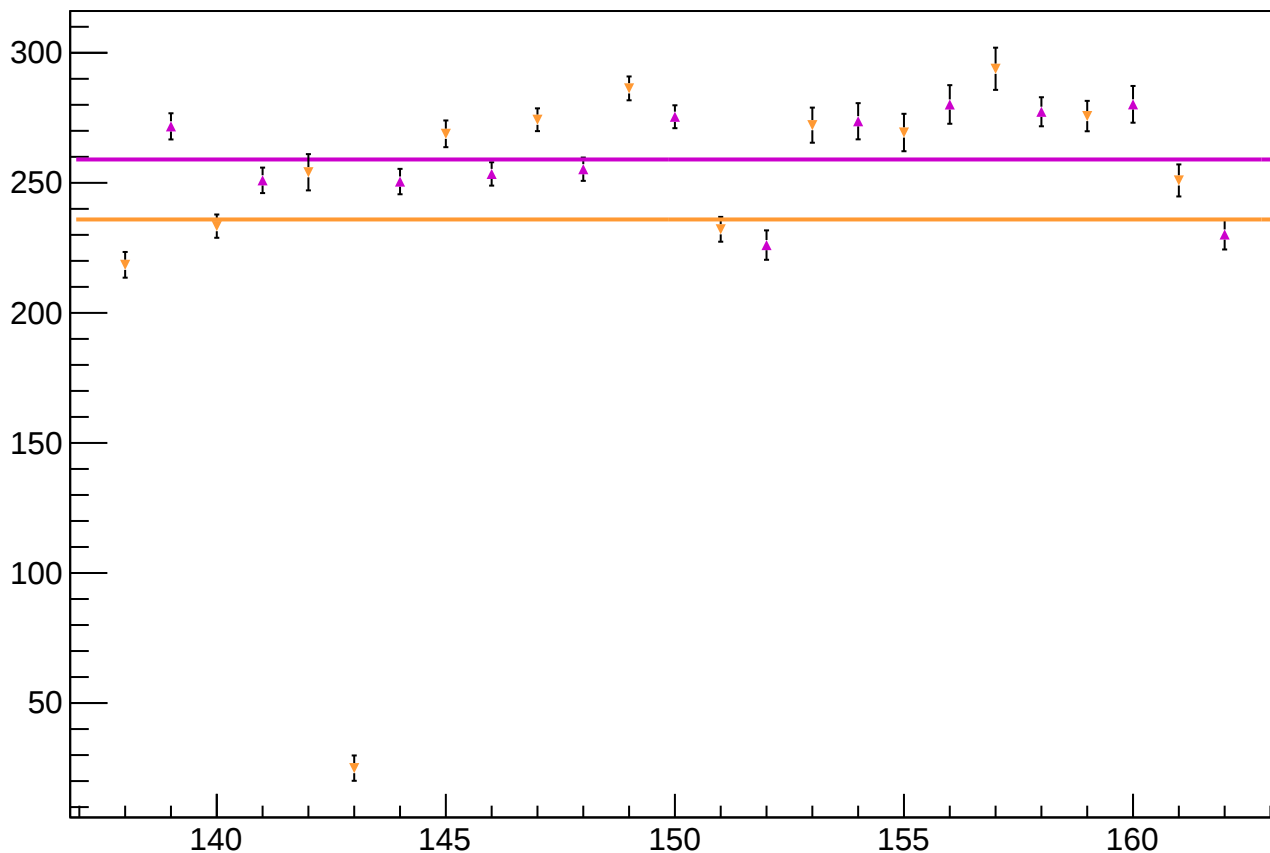
Right: -56.499 $\pm$ 0.043  $\chi^2$ /NDF: 2110811.0/35

In: -105.979 $\pm$ 0.046  $\chi^2$ /NDF: 2499690.0/28

Out: -97.018 $\pm$ 0.045  $\chi^2$ /NDF: 2683063.1/31

All: -101.431 $\pm$ 0.032  $\chi^2$ /NDF: 5202372.4/60

reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 235.923+/-1.495  $\chi^2/\text{NDF}$ :2288.6/12

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

Left In: 258.986+/-1.531  $\chi^2/\text{NDF}$ :119.6/11

Left: 247.179+/-1.070  $\chi^2/\text{NDF}$ : 2524.3/24

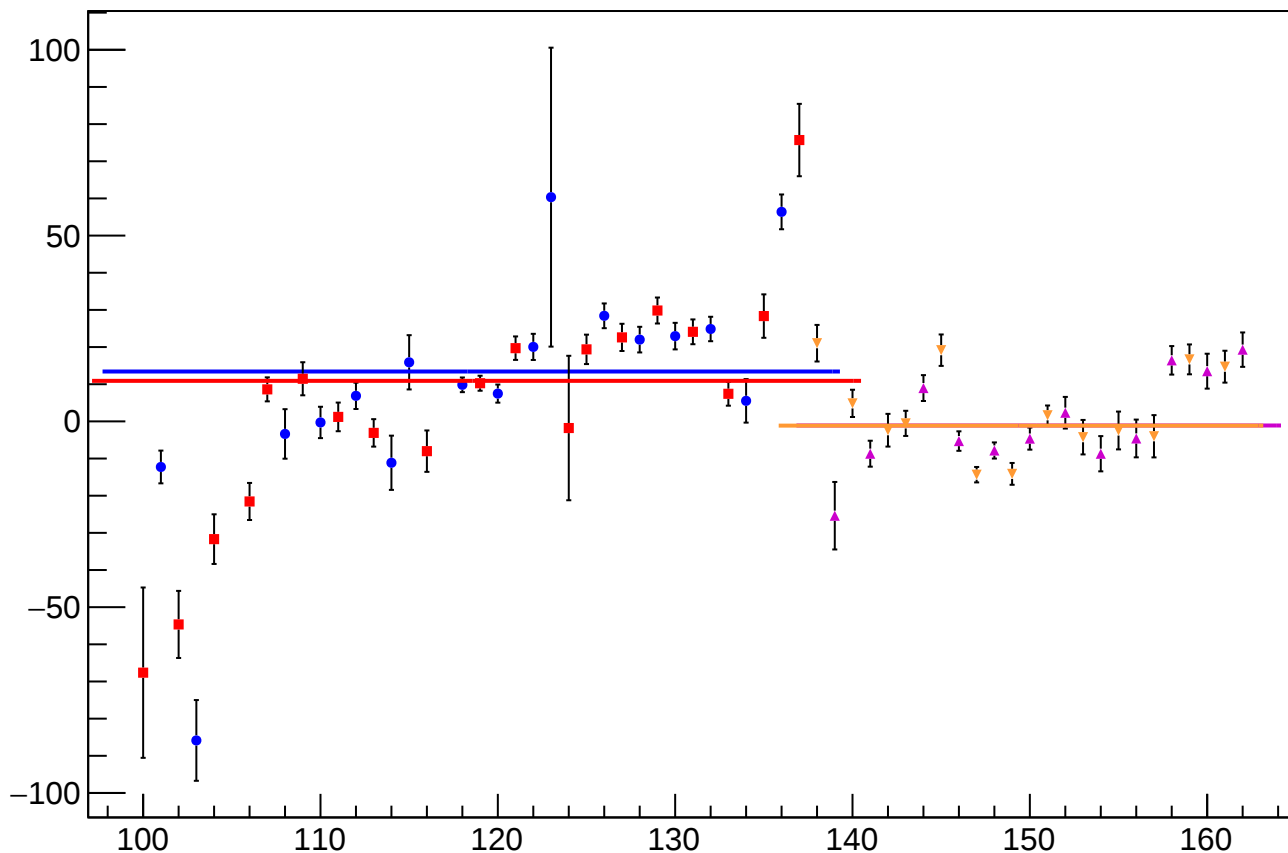
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 258.986+/-1.531  $\chi^2/\text{NDF}$ :119.6/11

Out: 235.923+/-1.495  $\chi^2/\text{NDF}$ :2288.6/12

All: 247.179+/-1.070  $\chi^2/\text{NDF}$ : 2524.3/24

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 13.423+/-0.920  $\chi^2$ /NDF: 295.2/16

Left Out: -1.141+/-0.983  $\chi^2$ /NDF:141.3/12

Right Out: 10.908+/-0.916  $\chi^2$ /NDF: 302.6/18

Left In: -1.107+/-1.028  $\chi^2$ /NDF:87.5/11

Left: -1.125+/-0.711  $\chi^2$ /NDF: 228.8/24

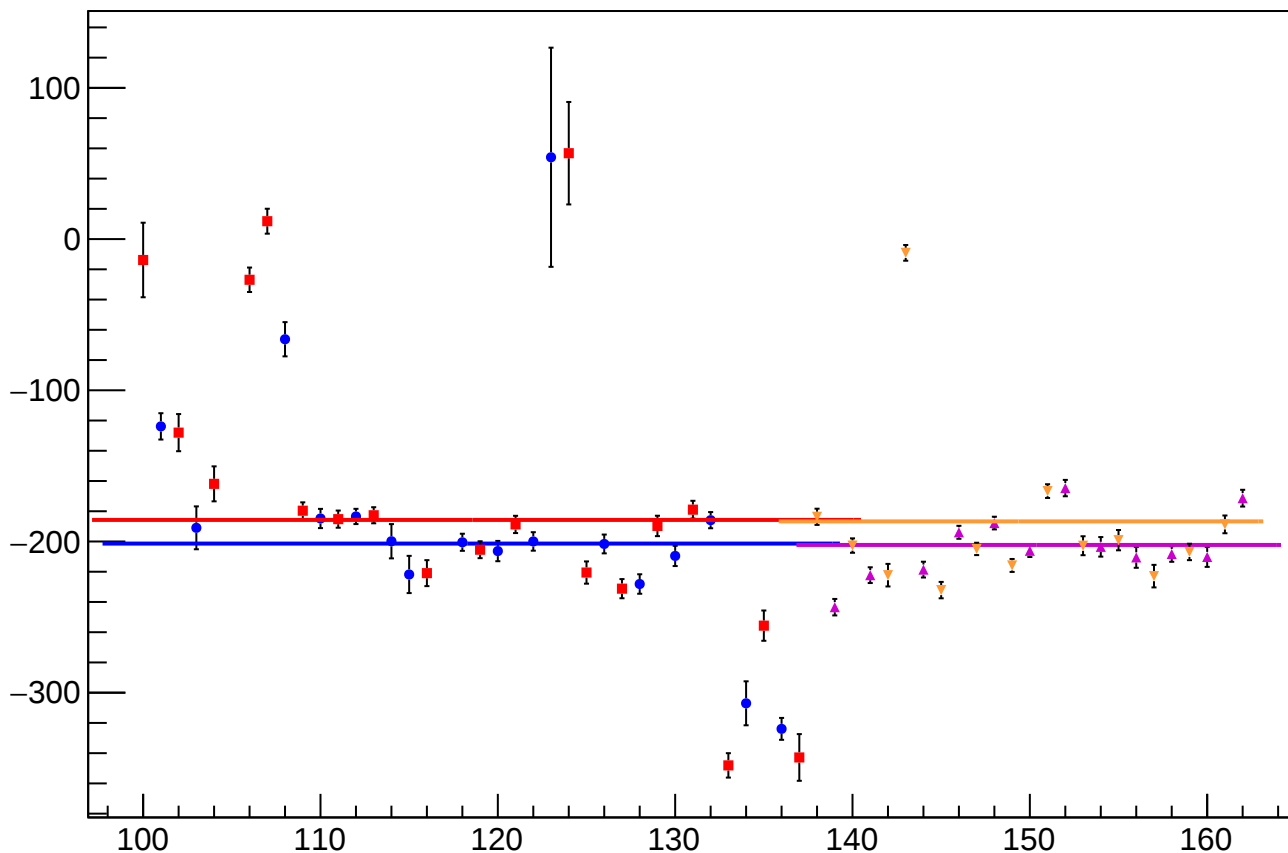
Right: 12.160+/-0.649  $\chi^2$ /NDF: 601.6/35

In: 6.966+/-0.685  $\chi^2$ /NDF:493.7/28

Out: 5.308+/-0.670  $\chi^2$ /NDF:524.3/31

All: 6.118+/-0.479  $\chi^2$ /NDF: 1021.0/60

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-201.384 \pm 1.779$   $\chi^2/\text{NDF}$ : 623.5/16

Left Out:  $-186.711 \pm 1.476$   $\chi^2/\text{NDF}$ : 1404.5/12

Right Out:  $-185.739 \pm 1.700$   $\chi^2/\text{NDF}$ : 1749.3/18

Left In:  $-202.282 \pm 1.491$   $\chi^2/\text{NDF}$ : 181.7/11

Left:  $-194.415 \pm 1.049$   $\chi^2/\text{NDF}$ : 1641.3/24

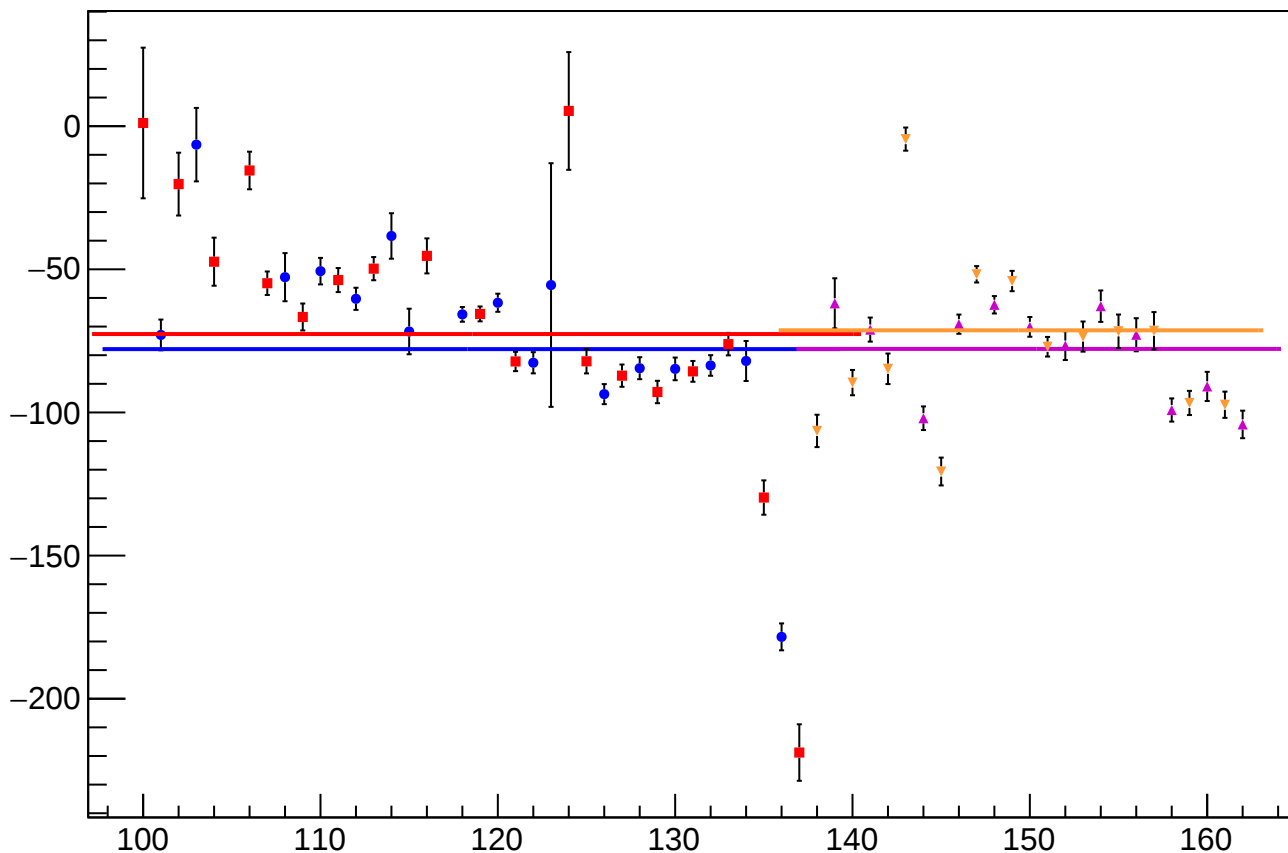
Right:  $-193.204 \pm 1.229$   $\chi^2/\text{NDF}$ : 2413.2/35

In:  $-201.911 \pm 1.143$   $\chi^2/\text{NDF}$ : 805.4/28

Out:  $-186.293 \pm 1.114$   $\chi^2/\text{NDF}$ : 3154.0/31

All:  $-193.905 \pm 0.798$   $\chi^2/\text{NDF}$ : 4055.1/60

reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.877 \pm 1.066$   $\chi^2/\text{NDF}$ : 658.2/16

Left Out:  $-71.307 \pm 1.195$   $\chi^2/\text{NDF}$ : 579.1/12

Right Out:  $-72.612 \pm 1.054$   $\chi^2/\text{NDF}$ : 606.9/18

Left In:  $-77.810 \pm 1.235$   $\chi^2/\text{NDF}$ : 150.4/11

Left:  $-74.451 \pm 0.859$   $\chi^2/\text{NDF}$ : 743.8/24

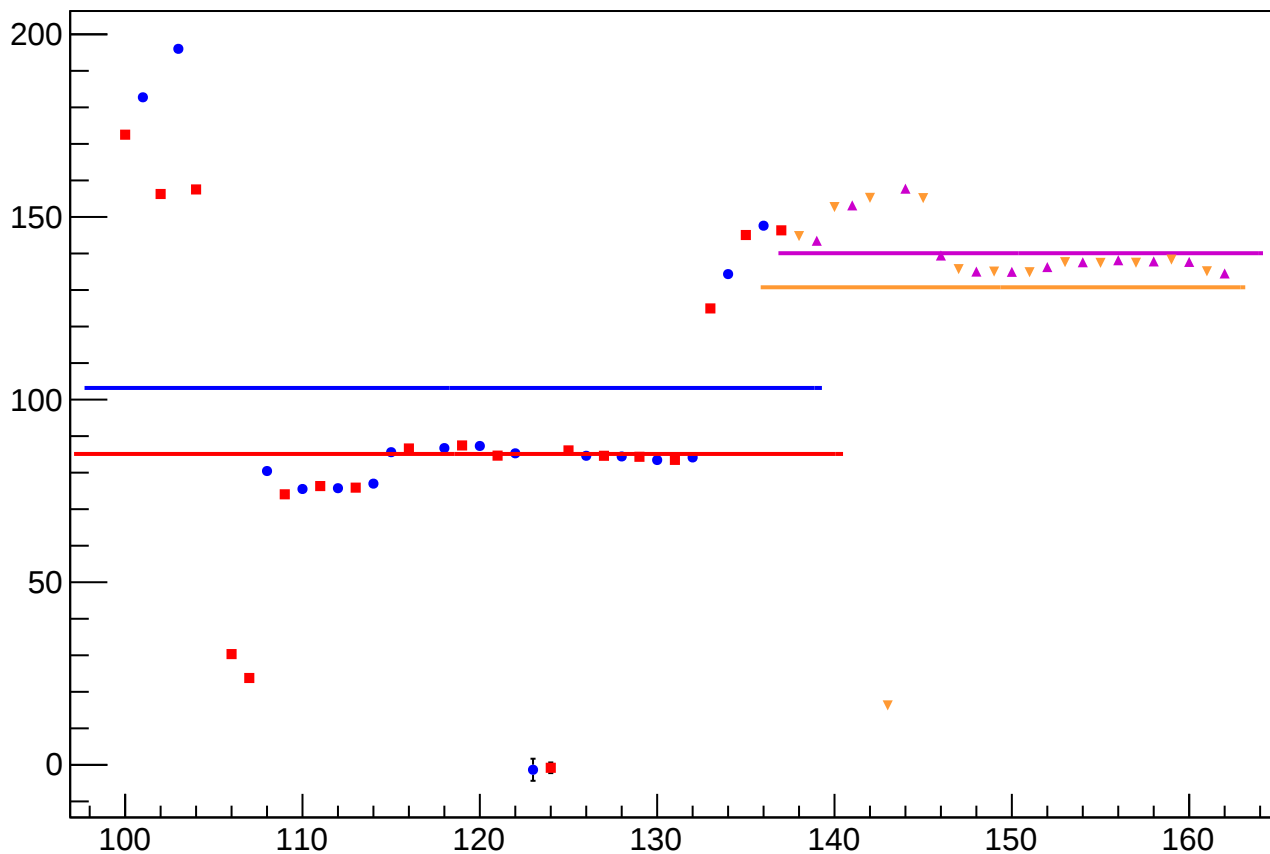
Right:  $-75.215 \pm 0.749$   $\chi^2/\text{NDF}$ : 1277.4/35

In:  $-77.848 \pm 0.807$   $\chi^2/\text{NDF}$ : 808.5/28

Out:  $-72.041 \pm 0.790$   $\chi^2/\text{NDF}$ : 1186.6/31

All:  $-74.885 \pm 0.565$   $\chi^2/\text{NDF}$ : 2021.6/60

reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 103.188 $\pm$ 0.070  $\chi^2$ /NDF: 273587.8/16

Left Out: 130.746 $\pm$ 0.059  $\chi^2$ /NDF: 344326.1/12

Right Out: 85.121 $\pm$ 0.064  $\chi^2$ /NDF: 423521.4/18

Left In: 140.074 $\pm$ 0.059  $\chi^2$ /NDF: 13198.0/11

Left: 135.415 $\pm$ 0.042  $\chi^2$ /NDF: 369917.1/24

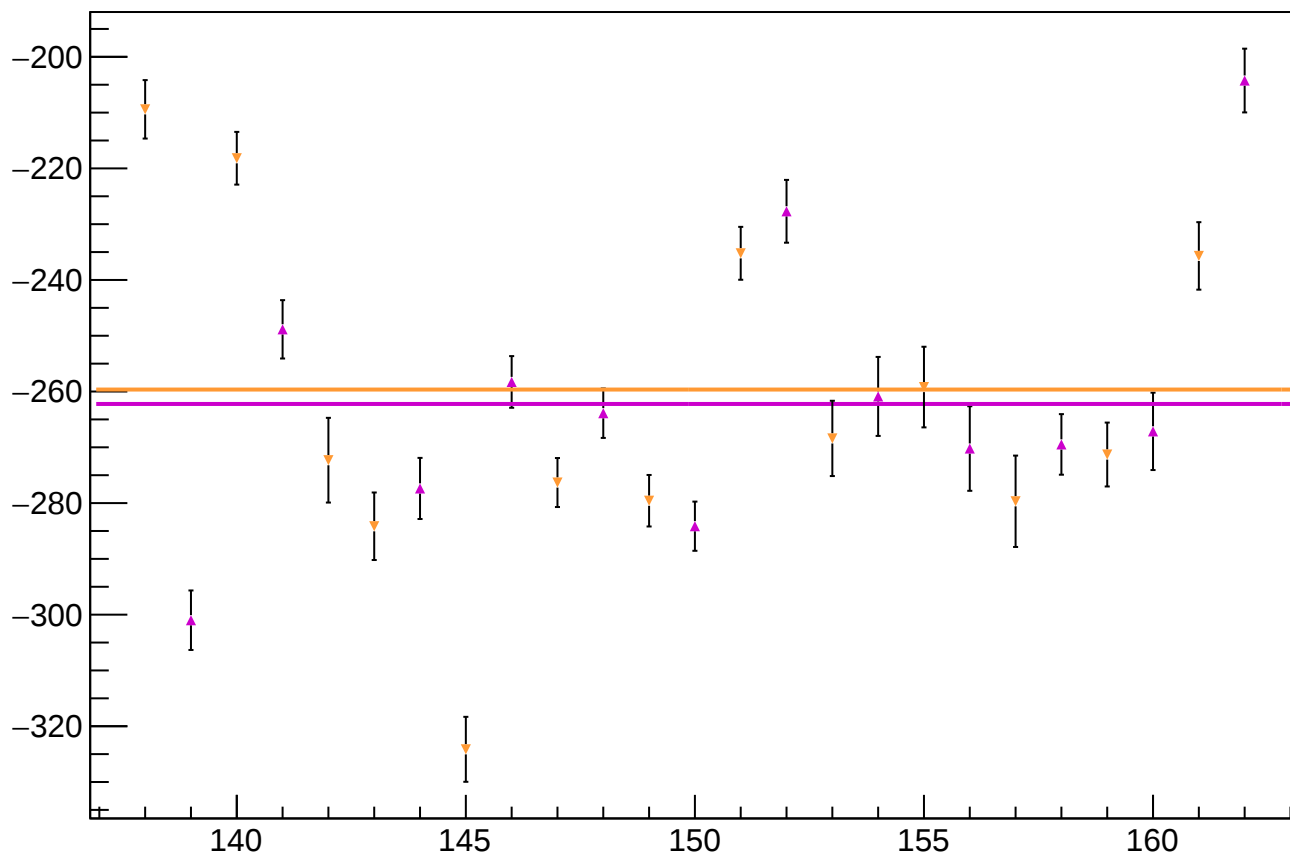
Right: 93.266 $\pm$ 0.047  $\chi^2$ /NDF: 733347.5/35

In: 124.772 $\pm$ 0.045  $\chi^2$ /NDF: 447727.2/28

Out: 109.583 $\pm$ 0.043  $\chi^2$ /NDF: 1042675.6/31

All: 116.853 $\pm$ 0.031  $\chi^2$ /NDF: 1549026.1/60

reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -259.645+/-1.557  $\chi^2/\text{NDF}$ : 397.8/12

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

Left In: -262.229+/-1.565  $\chi^2/\text{NDF}$ : 236.6/11

Left: -260.930+/-1.104  $\chi^2/\text{NDF}$ : 635.8/24

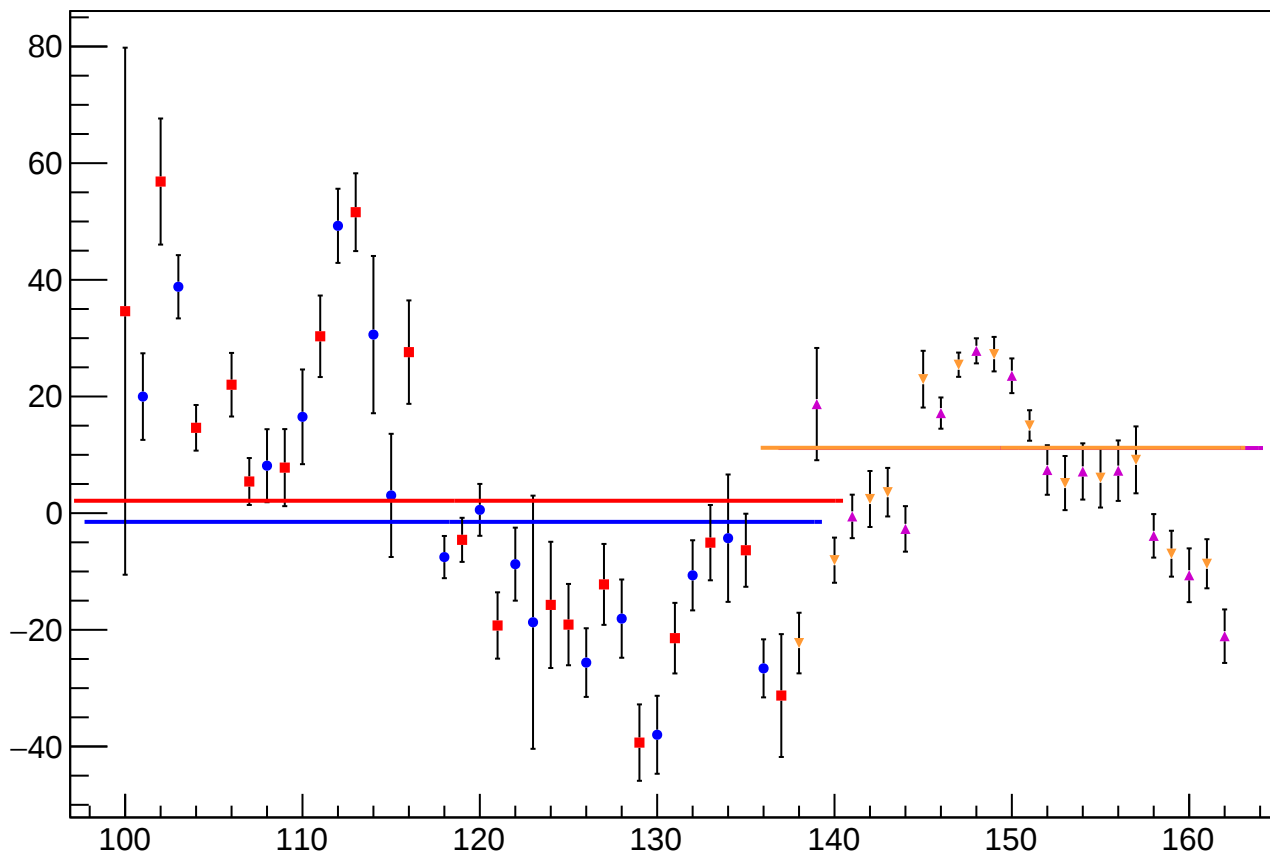
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -262.229+/-1.565  $\chi^2/\text{NDF}$ : 236.6/11

Out: -259.645+/-1.557  $\chi^2/\text{NDF}$ : 397.8/12

All: -260.930+/-1.104  $\chi^2/\text{NDF}$ : 635.8/24

reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.492 \pm 1.513$   $\chi^2/\text{NDF}: 226.1/16$

Left Out:  $11.207 \pm 1.013$   $\chi^2/\text{NDF}: 203.7/12$

Right Out:  $2.127 \pm 1.402$   $\chi^2/\text{NDF}: 232.6/18$

Left In:  $11.166 \pm 1.043$   $\chi^2/\text{NDF}: 195.7/11$

Left:  $11.187 \pm 0.727$   $\chi^2/\text{NDF}: 399.4/24$

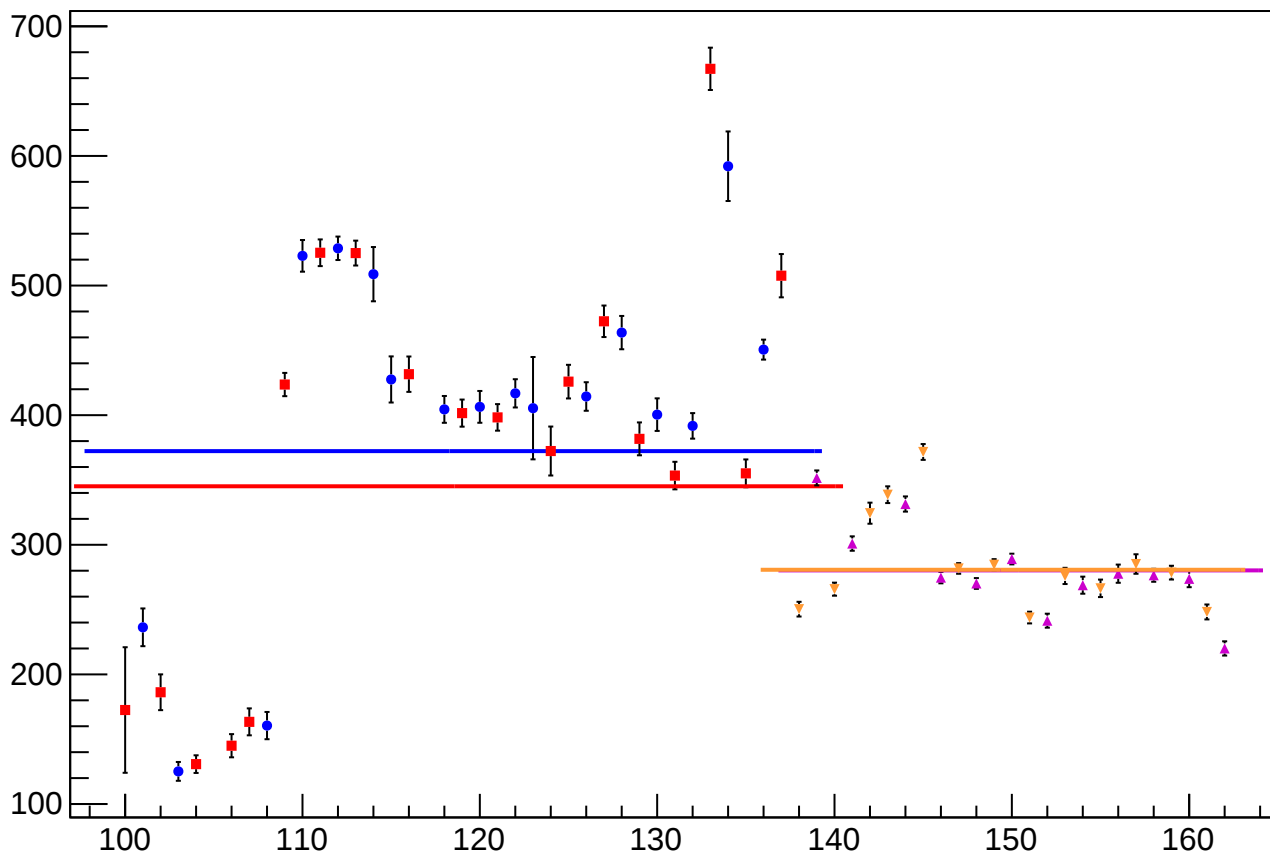
Right:  $0.455 \pm 1.029$   $\chi^2/\text{NDF}: 461.8/35$

In:  $7.090 \pm 0.859$   $\chi^2/\text{NDF}: 469.3/28$

Out:  $8.094 \pm 0.821$   $\chi^2/\text{NDF}: 463.9/31$

All:  $7.615 \pm 0.593$   $\chi^2/\text{NDF}: 933.9/60$

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $372.263 \pm 2.759$   $\chi^2/\text{NDF}: 2433.1/16$

Left Out:  $280.723 \pm 1.526$   $\chi^2/\text{NDF}: 473.0/12$

Right Out:  $345.135 \pm 2.562$   $\chi^2/\text{NDF}: 3416.5/18$

Left In:  $280.245 \pm 1.518$   $\chi^2/\text{NDF}: 431.2/11$

Left:  $280.483 \pm 1.076$   $\chi^2/\text{NDF}: 904.3/24$

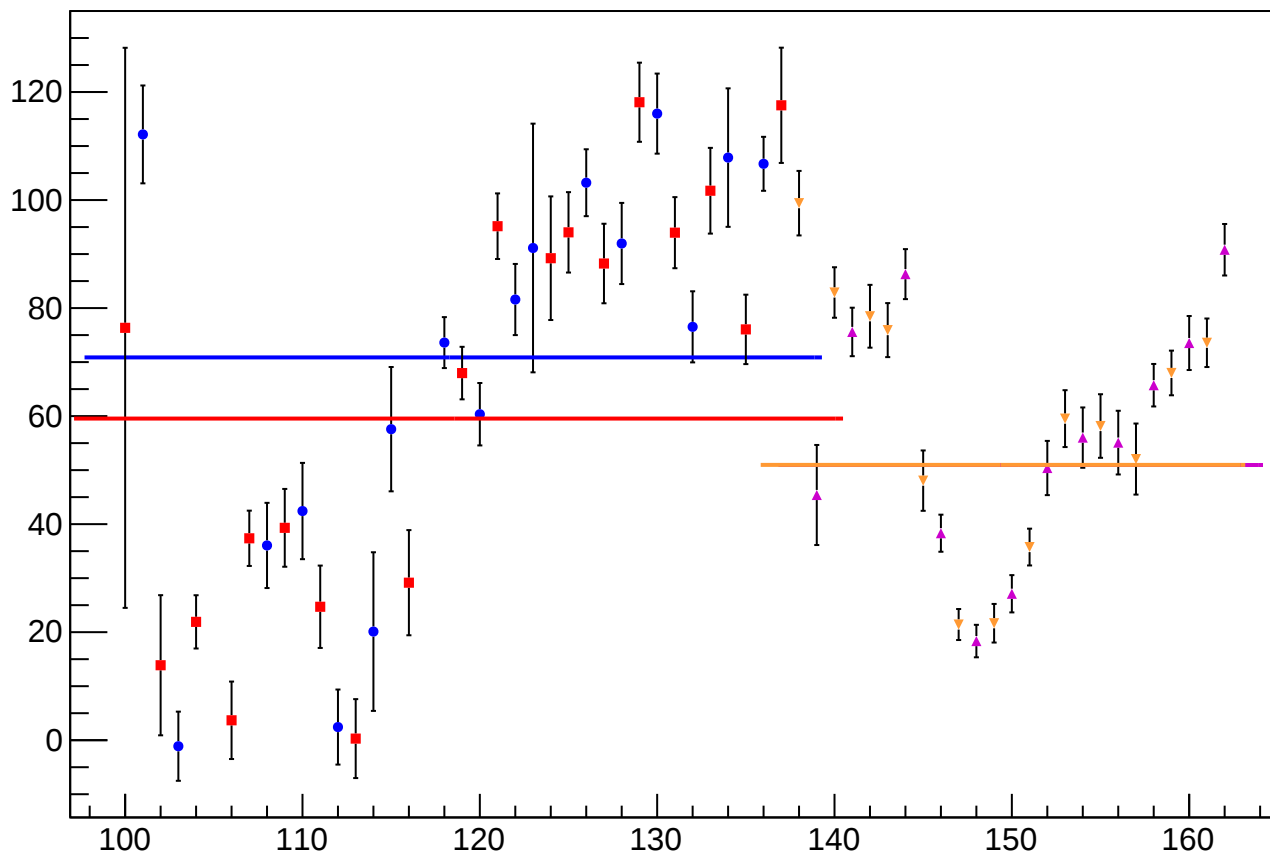
Right:  $357.695 \pm 1.878$   $\chi^2/\text{NDF}: 5901.5/35$

In:  $301.623 \pm 1.330$   $\chi^2/\text{NDF}: 3717.9/28$

Out:  $297.597 \pm 1.311$   $\chi^2/\text{NDF}: 4356.0/31$

All:  $299.582 \pm 0.934$   $\chi^2/\text{NDF}: 8078.6/60$

reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 70.867 $\pm$ 1.743  $\chi^2$ /NDF: 427.0/16

Left Out: 50.970 $\pm$ 1.233  $\chi^2$ /NDF:399.7/12

Right Out: 59.546 $\pm$ 1.633  $\chi^2$ /NDF: 490.9/18

Left In: 50.948 $\pm$ 1.253  $\chi^2$ /NDF:373.3/11

Left: 50.959 $\pm$ 0.879  $\chi^2$ /NDF: 772.9/24

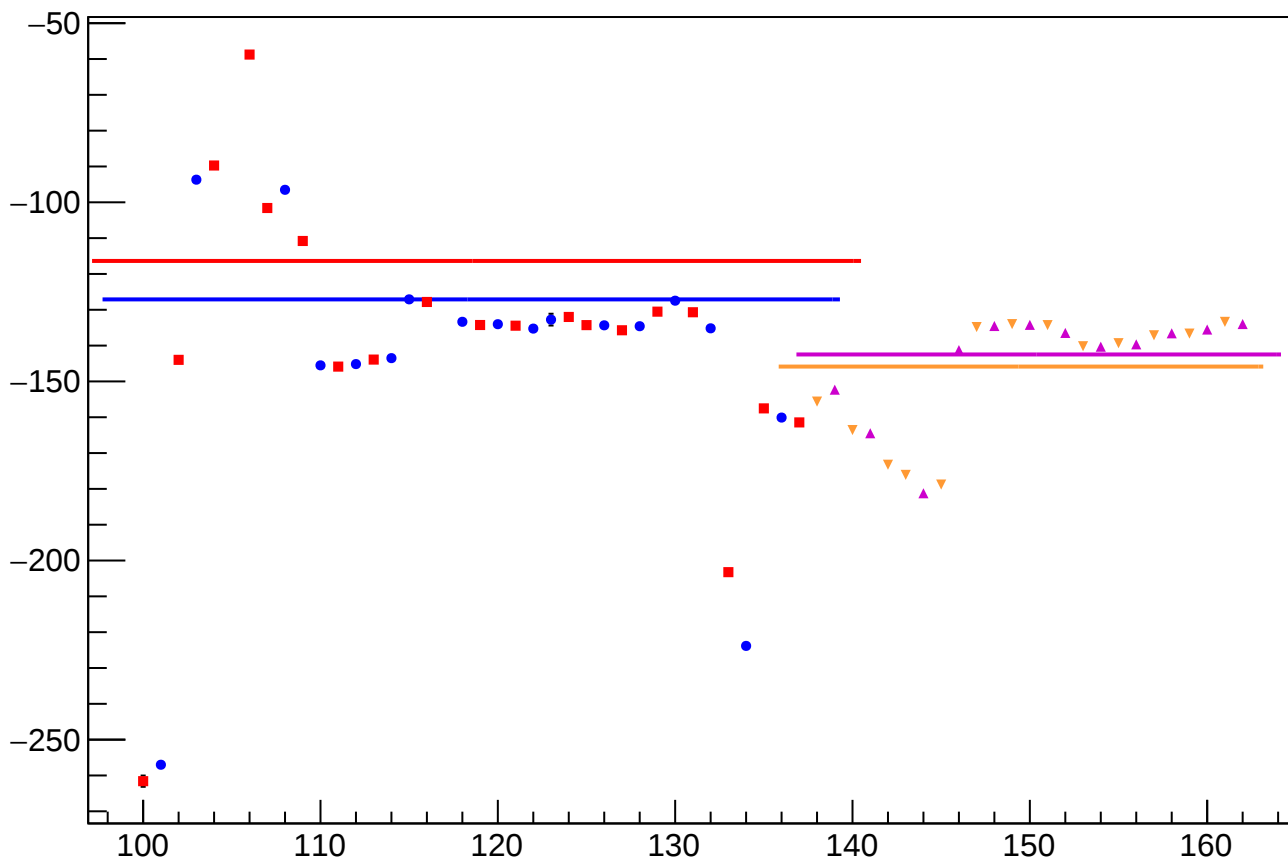
Right: 64.838 $\pm$ 1.192  $\chi^2$ /NDF: 940.3/35

In: 57.738 $\pm$ 1.018  $\chi^2$ /NDF:886.3/28

Out: 54.085 $\pm$ 0.984  $\chi^2$ /NDF:908.1/31

All: 55.850 $\pm$ 0.707  $\chi^2$ /NDF: 1801.1/60

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -127.105+/-0.089  $\chi^2/\text{NDF}$ : 167064.7/16

Left Out: -145.857+/-0.061  $\chi^2/\text{NDF}$ : 66664.4/12

Right Out: -116.369+/-0.083  $\chi^2/\text{NDF}$ : 167595.6/18

Left In: -142.476+/-0.060  $\chi^2/\text{NDF}$ : 43452.7/11

Left: -144.136+/-0.043  $\chi^2/\text{NDF}$ : 111664.6/24

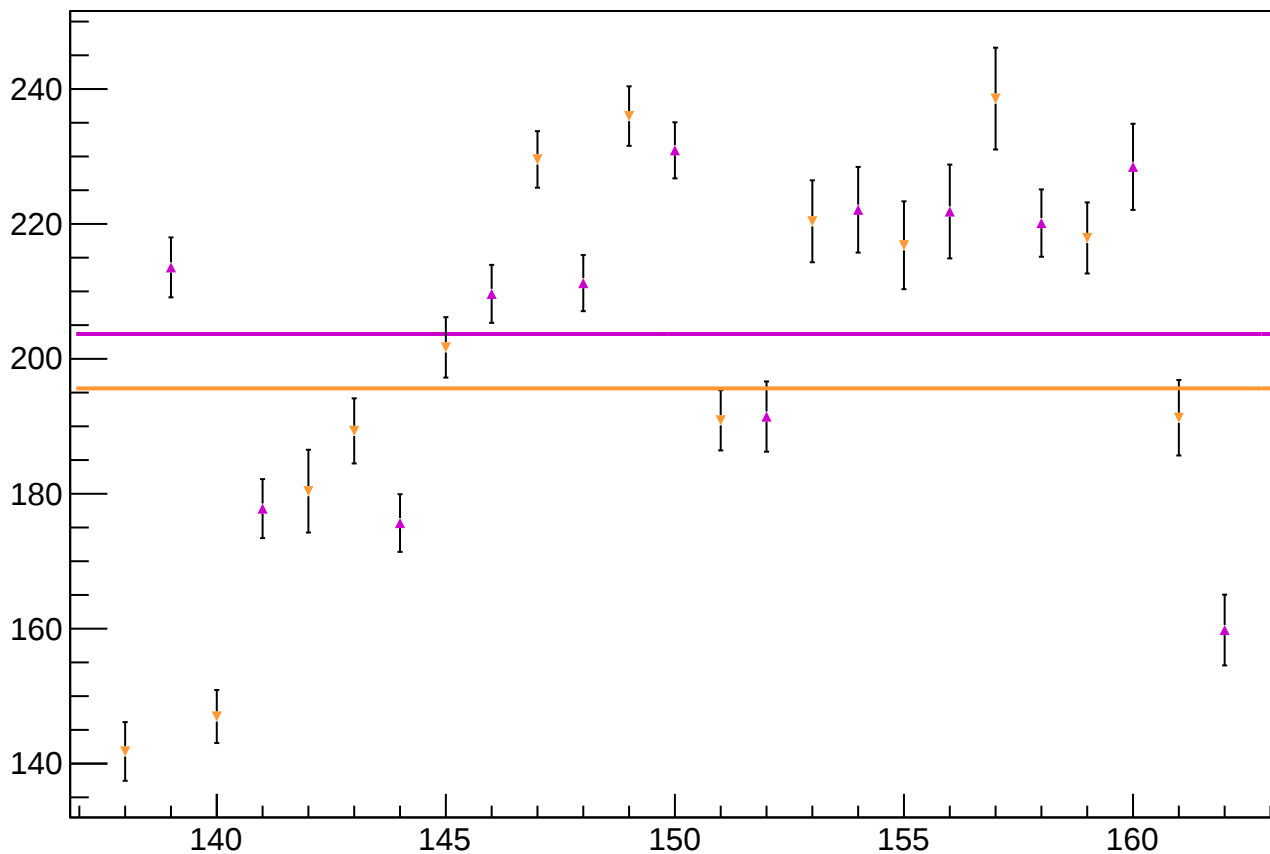
Right: -121.332+/-0.061  $\chi^2/\text{NDF}$ : 342408.2/35

In: -137.682+/-0.050  $\chi^2/\text{NDF}$ : 230845.0/28

Out: -135.432+/-0.049  $\chi^2/\text{NDF}$ : 316010.9/31

All: -136.543+/-0.035  $\chi^2/\text{NDF}$ : 547883.2/60

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 195.621+/-1.372  $\chi^2/\text{NDF}$ : 544.5/12

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

Left In: 203.686+/-1.399  $\chi^2/\text{NDF}$ : 247.7/11

Left: 199.573+/-0.979  $\chi^2/\text{NDF}$ : 809.1/24

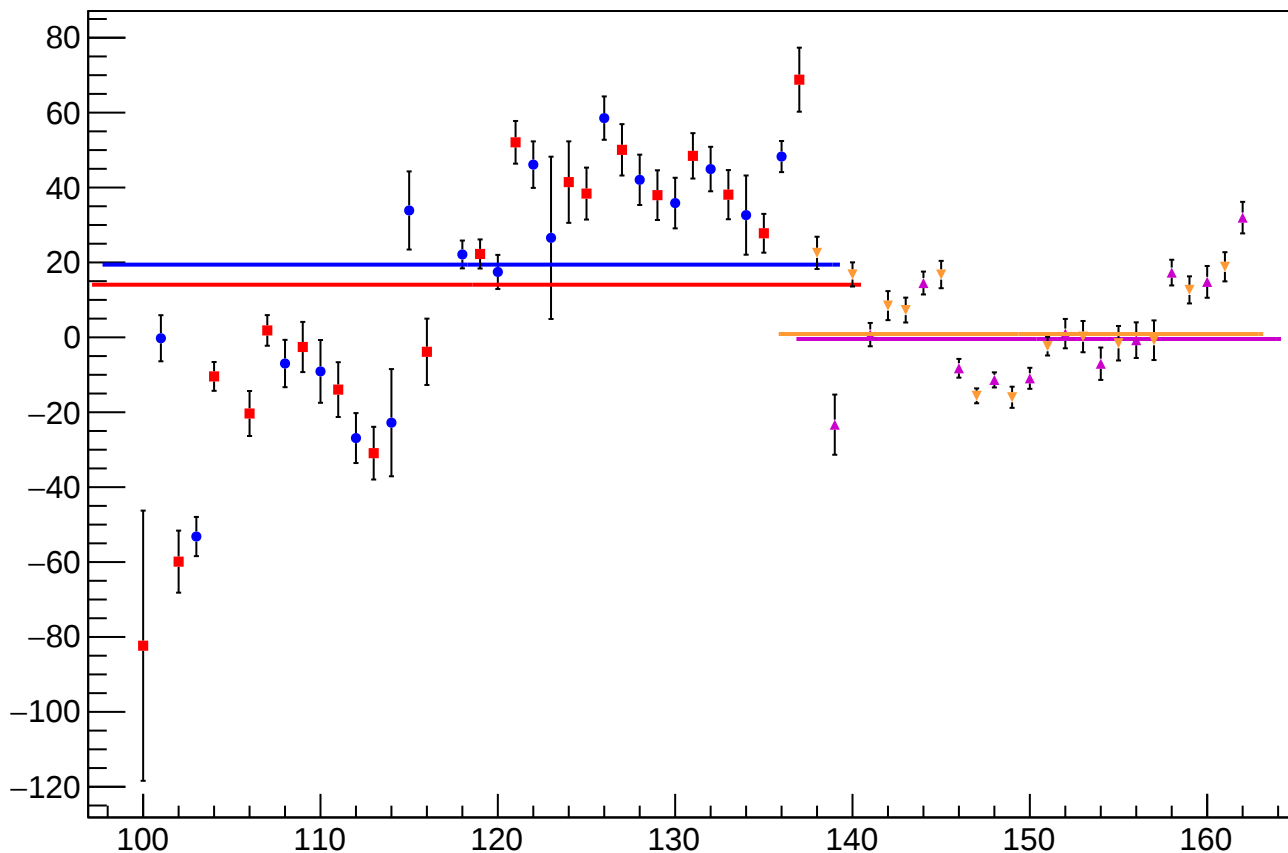
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 203.686+/-1.399  $\chi^2/\text{NDF}$ : 247.7/11

Out: 195.621+/-1.372  $\chi^2/\text{NDF}$ : 544.5/12

All: 199.573+/-0.979  $\chi^2/\text{NDF}$ : 809.1/24

reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $19.416 \pm 1.480$   $\chi^2/\text{NDF}$ : 441.1/16

Left Out:  $0.895 \pm 0.910$   $\chi^2/\text{NDF}$ : 215.0/12

Right Out:  $14.055 \pm 1.392$   $\chi^2/\text{NDF}$ : 436.5/18

Left In:  $-0.436 \pm 0.946$   $\chi^2/\text{NDF}$ : 186.5/11

Left:  $0.255 \pm 0.656$   $\chi^2/\text{NDF}$ : 402.5/24

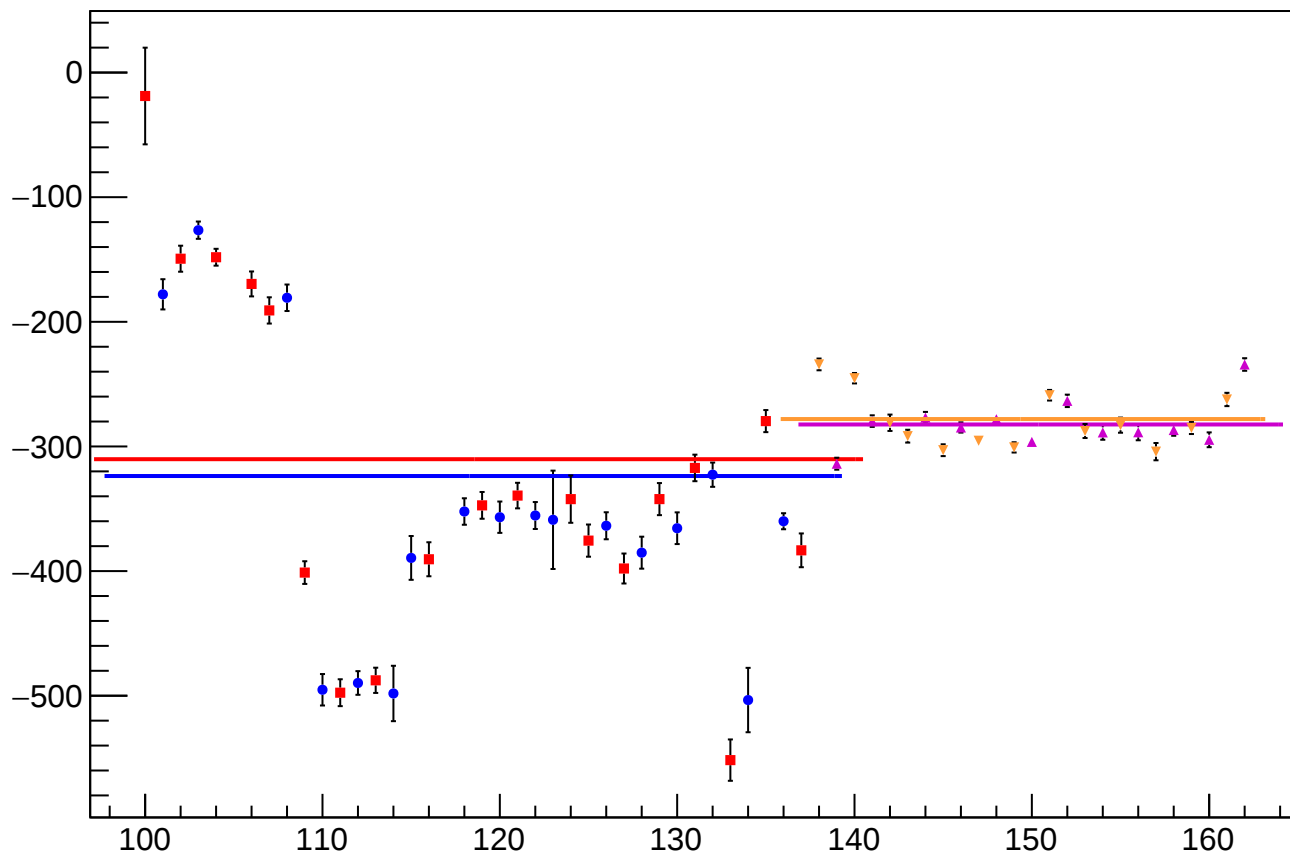
Right:  $16.572 \pm 1.014$   $\chi^2/\text{NDF}$ : 884.6/35

In:  $5.323 \pm 0.797$   $\chi^2/\text{NDF}$ : 755.4/28

Out:  $4.837 \pm 0.762$   $\chi^2/\text{NDF}$ : 714.1/31

All:  $5.069 \pm 0.551$   $\chi^2/\text{NDF}$ : 1469.7/60

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-323.721 \pm 2.668$   $\chi^2/\text{NDF}$ : 1850.8/16

Left Out:  $-278.006 \pm 1.357$   $\chi^2/\text{NDF}$ : 281.6/12

Right Out:  $-310.223 \pm 2.523$   $\chi^2/\text{NDF}$ : 2300.0/18

Left In:  $-282.367 \pm 1.366$   $\chi^2/\text{NDF}$ : 171.7/11

Left:  $-280.173 \pm 0.963$   $\chi^2/\text{NDF}$ : 458.4/24

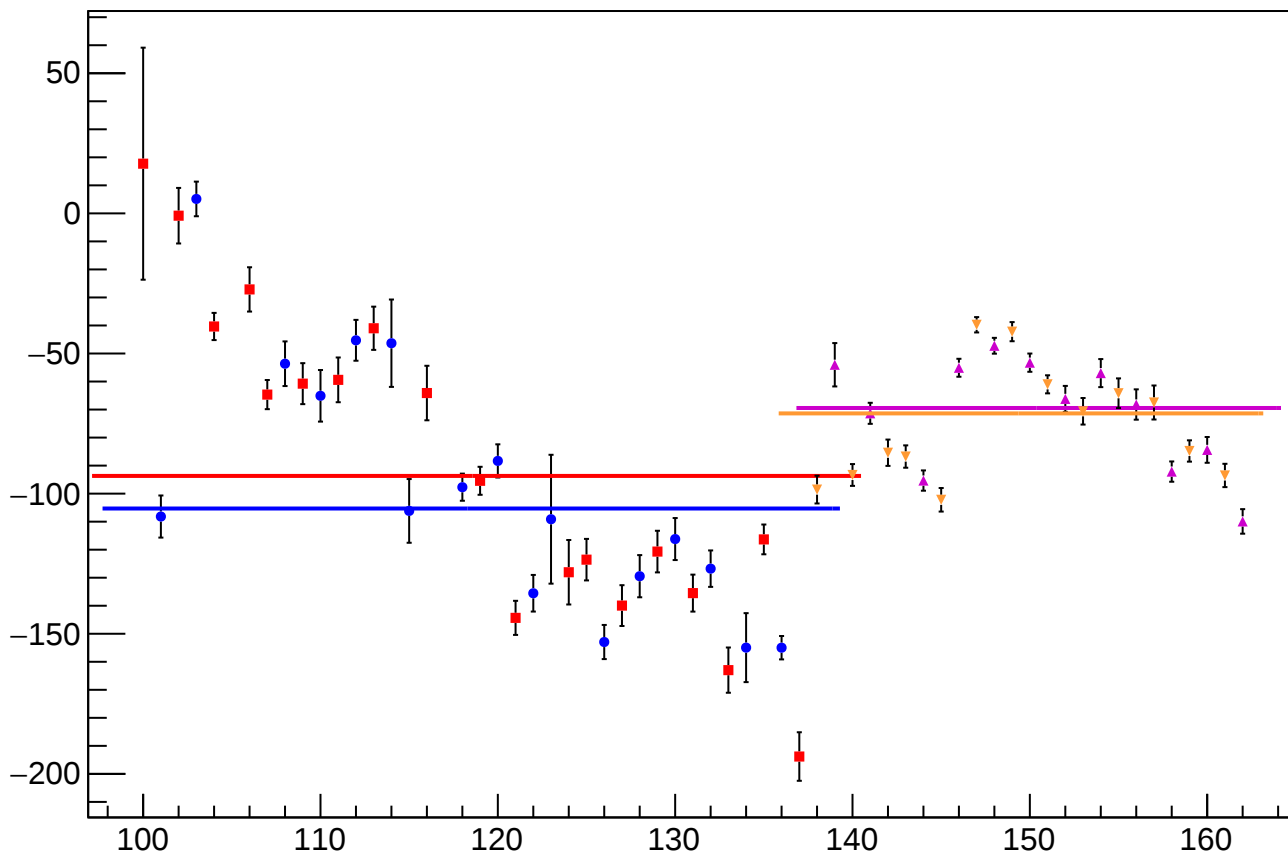
Right:  $-316.595 \pm 1.833$   $\chi^2/\text{NDF}$ : 4164.2/35

In:  $-290.953 \pm 1.216$   $\chi^2/\text{NDF}$ : 2212.8/28

Out:  $-285.236 \pm 1.195$   $\chi^2/\text{NDF}$ : 2708.1/31

All:  $-288.046 \pm 0.852$   $\chi^2/\text{NDF}$ : 4932.1/60

reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-105.309 \pm 1.693$   $\chi^2/\text{NDF}$ : 737.5/16

Left Out:  $-71.373 \pm 1.103$   $\chi^2/\text{NDF}$ : 399.5/12

Right Out:  $-93.680 \pm 1.612$   $\chi^2/\text{NDF}$ : 826.5/18

Left In:  $-69.440 \pm 1.134$   $\chi^2/\text{NDF}$ : 304.2/11

Left:  $-70.433 \pm 0.791$   $\chi^2/\text{NDF}$ : 705.2/24

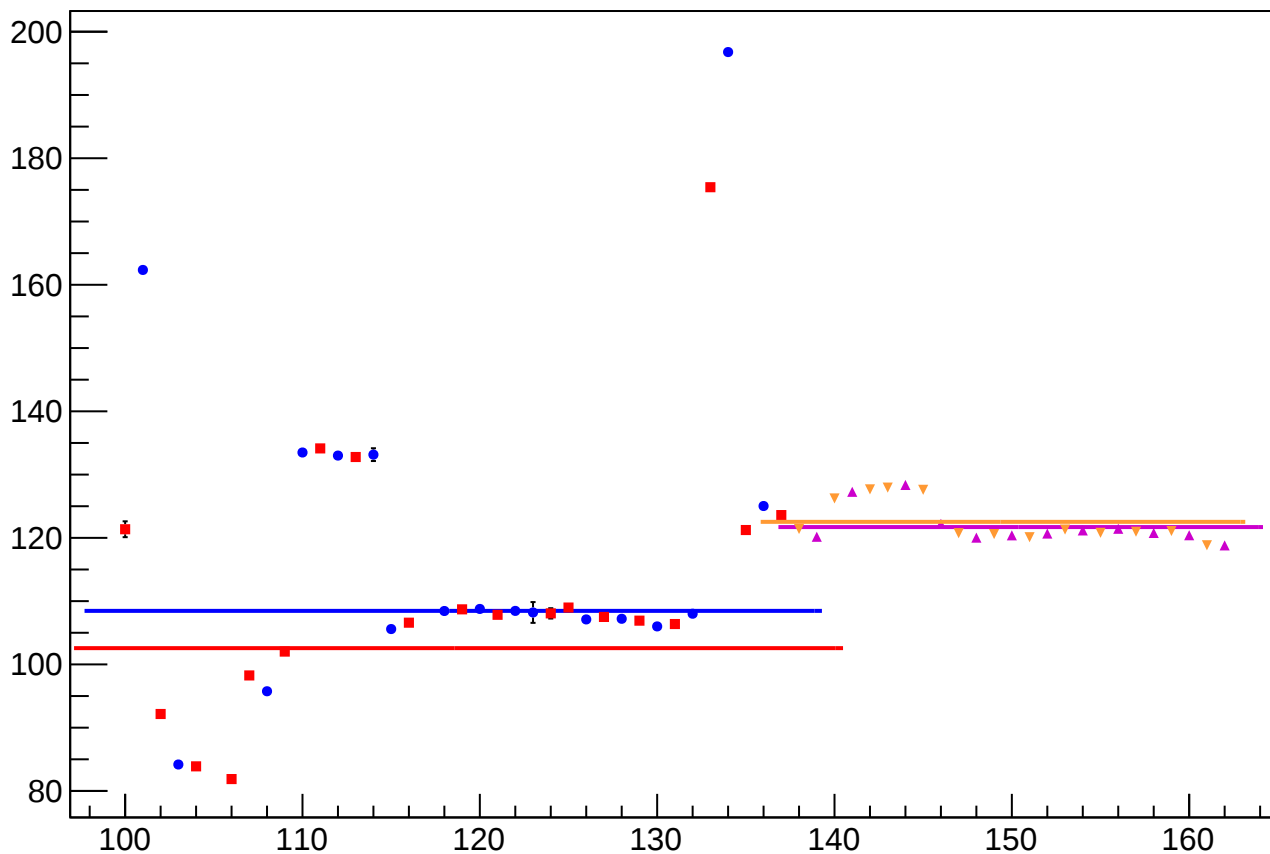
Right:  $-99.207 \pm 1.167$   $\chi^2/\text{NDF}$ : 1588.8/35

In:  $-80.542 \pm 0.942$   $\chi^2/\text{NDF}$ : 1351.5/28

Out:  $-78.493 \pm 0.910$   $\chi^2/\text{NDF}$ : 1356.4/31

All:  $-79.482 \pm 0.655$   $\chi^2/\text{NDF}$ : 2710.4/60

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 108.461 $\pm$ 0.085  $\chi^2$ /NDF: 73302.1/16

Left Out: 122.532 $\pm$ 0.054  $\chi^2$ /NDF:3193.4/12

Right Out: 102.570 $\pm$ 0.079  $\chi^2$ /NDF: 53143.8/18

Left In: 121.706 $\pm$ 0.054  $\chi^2$ /NDF:2552.8/11

Left: 122.117 $\pm$ 0.038  $\chi^2$ /NDF: 5862.0/24

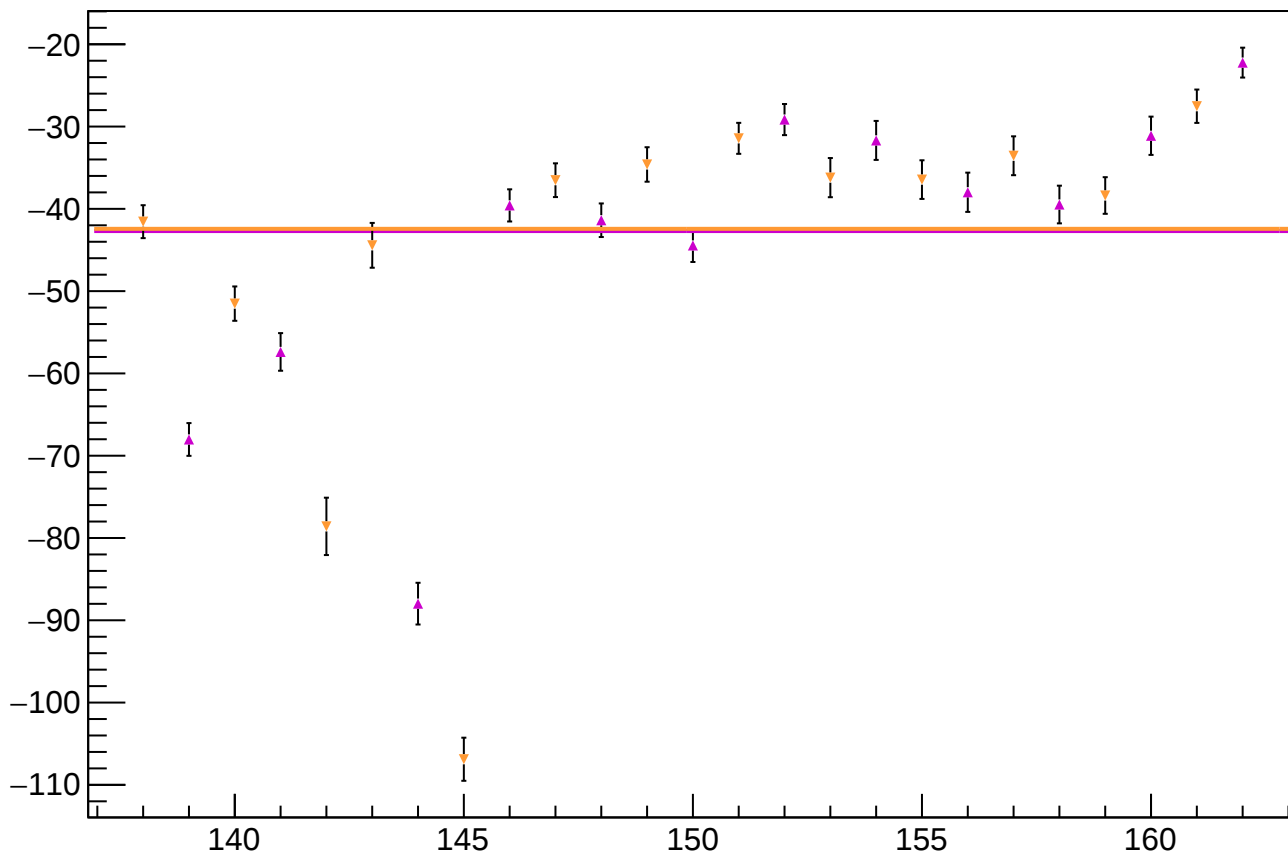
Right: 105.327 $\pm$ 0.058  $\chi^2$ /NDF: 129018.0/35

In: 117.868 $\pm$ 0.046  $\chi^2$ /NDF:93216.0/28

Out: 116.164 $\pm$ 0.045  $\chi^2$ /NDF:99316.4/31

All: 117.002 $\pm$ 0.032  $\chi^2$ /NDF: 193241.8/60

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



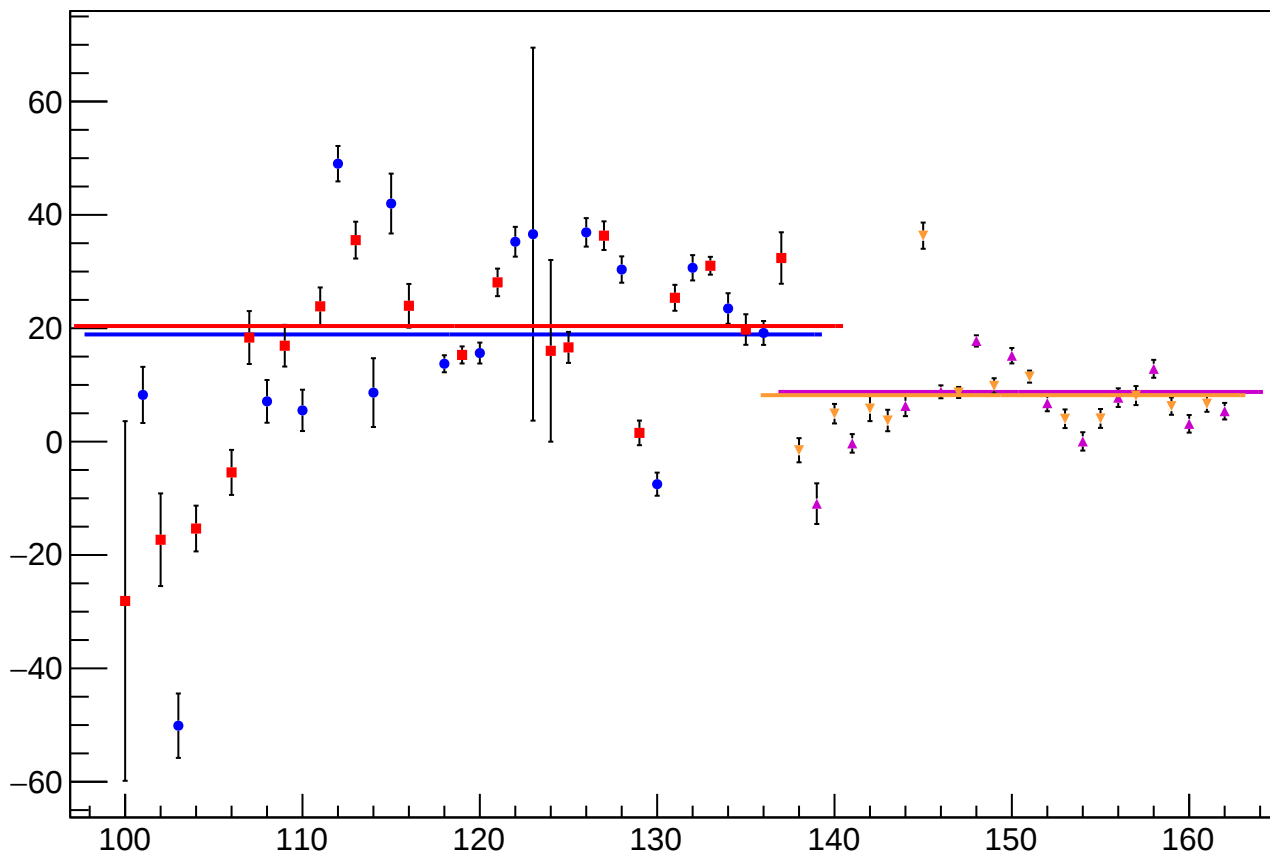
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -42.429+/-0.623  $\chi^2/\text{NDF}$ :874.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -42.700+/-0.613  $\chi^2/\text{NDF}$ :756.5/11

Left: -42.566+/-0.437  $\chi^2/\text{NDF}$ : 1630.8/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.700+/-0.613  $\chi^2/\text{NDF}$ :756.5/11  
 Out: -42.429+/-0.623  $\chi^2/\text{NDF}$ :874.2/12

All: -42.566+/-0.437  $\chi^2/\text{NDF}$ : 1630.8/24

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.906 $\pm$ 0.644  $\chi^2$ /NDF: 618.9/16

Left Out: 8.194 $\pm$ 0.418  $\chi^2$ /NDF:205.7/12

Right Out: 20.390 $\pm$ 0.644  $\chi^2$ /NDF: 365.3/18

Left In: 8.763 $\pm$ 0.422  $\chi^2$ /NDF:223.5/11

Left: 8.476 $\pm$ 0.297  $\chi^2$ /NDF: 430.1/24

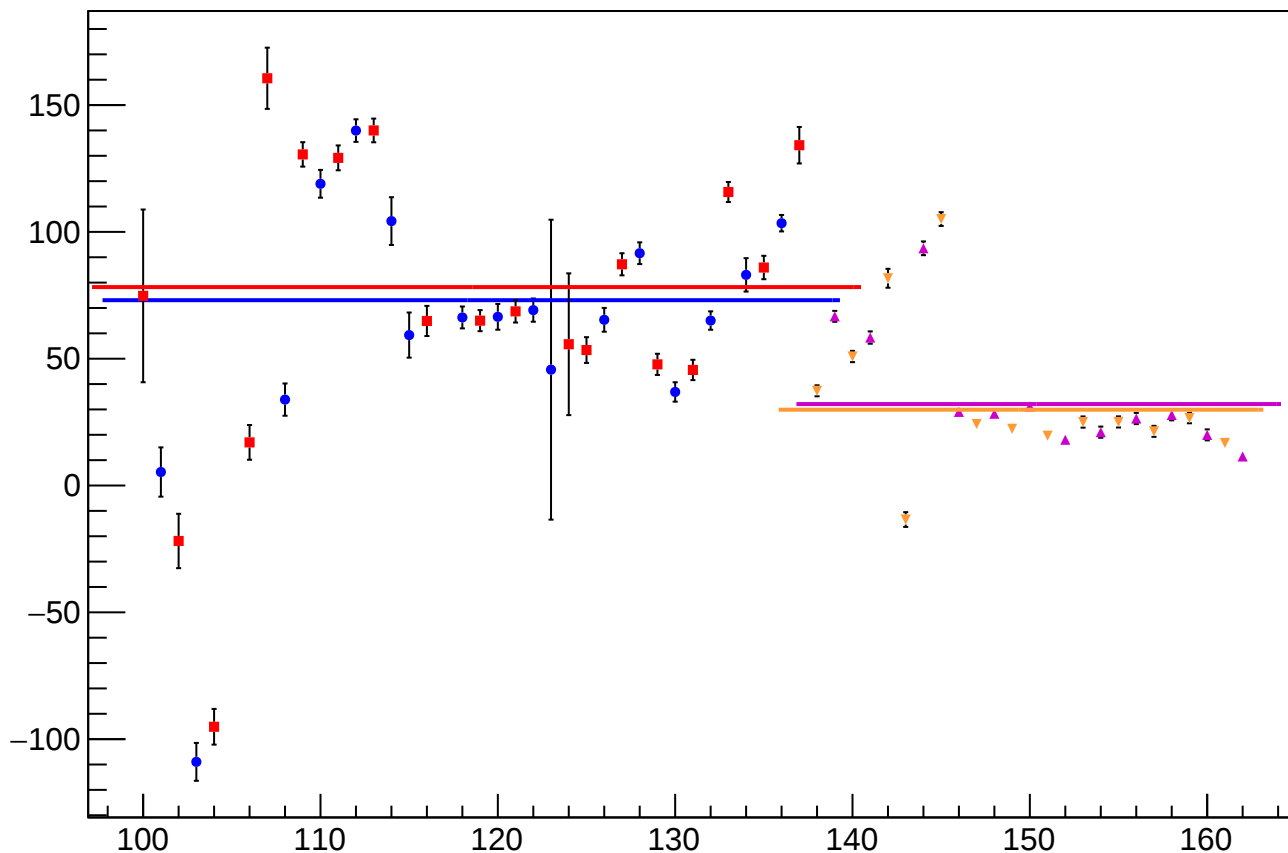
Right: 19.648 $\pm$ 0.455  $\chi^2$ /NDF: 986.9/35

In: 11.817 $\pm$ 0.353  $\chi^2$ /NDF:1016.0/28

Out: 11.816 $\pm$ 0.351  $\chi^2$ /NDF:823.3/31

All: 11.816 $\pm$ 0.249  $\chi^2$ /NDF: 1839.3/60

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 73.071+/-1.228  $\chi^2/\text{NDF}$ : 1200.0/16

Left Out: 29.893+/-0.608  $\chi^2/\text{NDF}$ :1417.5/12

Right Out: 78.241+/-1.223  $\chi^2/\text{NDF}$ : 1542.7/18

Left In: 32.117+/-0.593  $\chi^2/\text{NDF}$ :1161.7/11

Left: 31.032+/-0.424  $\chi^2/\text{NDF}$ : 2586.1/24

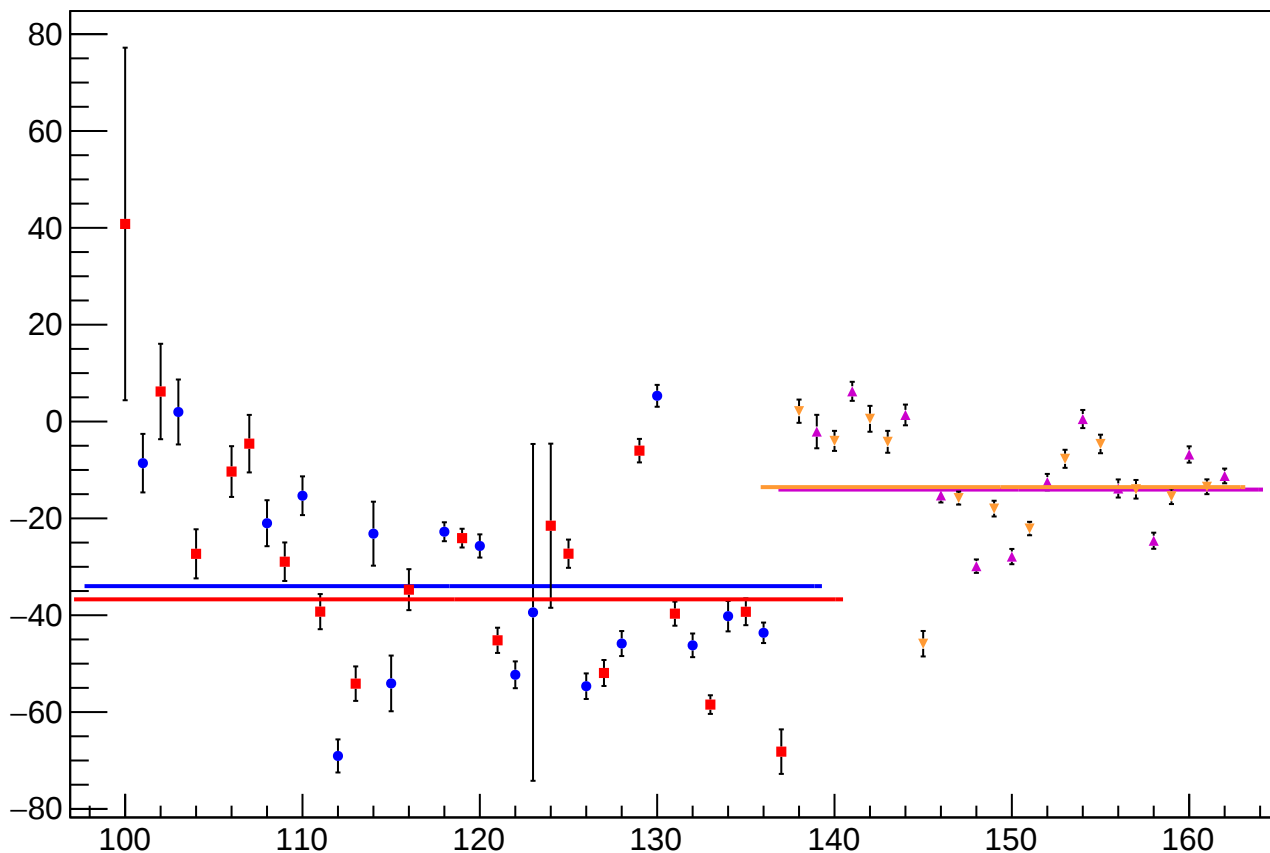
Right: 75.667+/-0.866  $\chi^2/\text{NDF}$ : 2751.5/35

In: 39.863+/-0.534  $\chi^2/\text{NDF}$ :3263.8/28

Out: 39.471+/-0.544  $\chi^2/\text{NDF}$ :4214.2/31

All: 39.671+/-0.381  $\chi^2/\text{NDF}$ : 7478.3/60

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.991 \pm 0.736$   $\chi^2/\text{NDF}$ : 719.8/16

Left Out:  $-13.545 \pm 0.501$   $\chi^2/\text{NDF}$ : 341.3/12

Right Out:  $-36.719 \pm 0.737$   $\chi^2/\text{NDF}$ : 542.9/18

Left In:  $-14.051 \pm 0.499$   $\chi^2/\text{NDF}$ : 501.6/11

Left:  $-13.799 \pm 0.353$   $\chi^2/\text{NDF}$ : 843.4/24

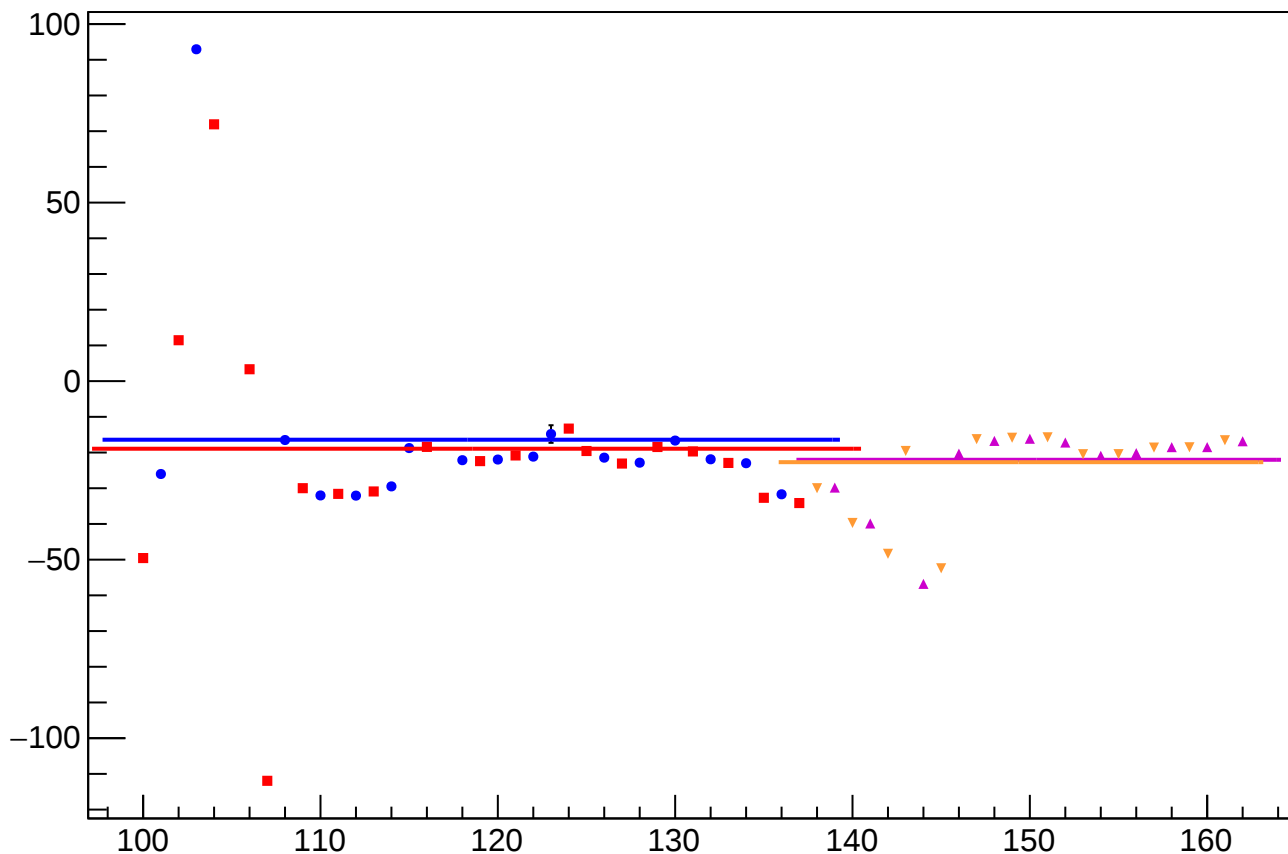
Right:  $-35.354 \pm 0.521$   $\chi^2/\text{NDF}$ : 1269.6/35

In:  $-20.323 \pm 0.413$   $\chi^2/\text{NDF}$ : 1724.2/28

Out:  $-20.870 \pm 0.414$   $\chi^2/\text{NDF}$ : 1560.8/31

All:  $-20.596 \pm 0.292$   $\chi^2/\text{NDF}$ : 3285.8/60

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-16.408 \pm 0.044$   $\chi^2/\text{NDF}: 474368.4/16$

Left Out:  $-22.699 \pm 0.024$   $\chi^2/\text{NDF}: 180251.2/12$

Right Out:  $-18.934 \pm 0.045$   $\chi^2/\text{NDF}: 434152.2/18$

Left In:  $-22.028 \pm 0.023$   $\chi^2/\text{NDF}: 154130.9/11$

Left:  $-22.354 \pm 0.017$   $\chi^2/\text{NDF}: 334791.9/24$

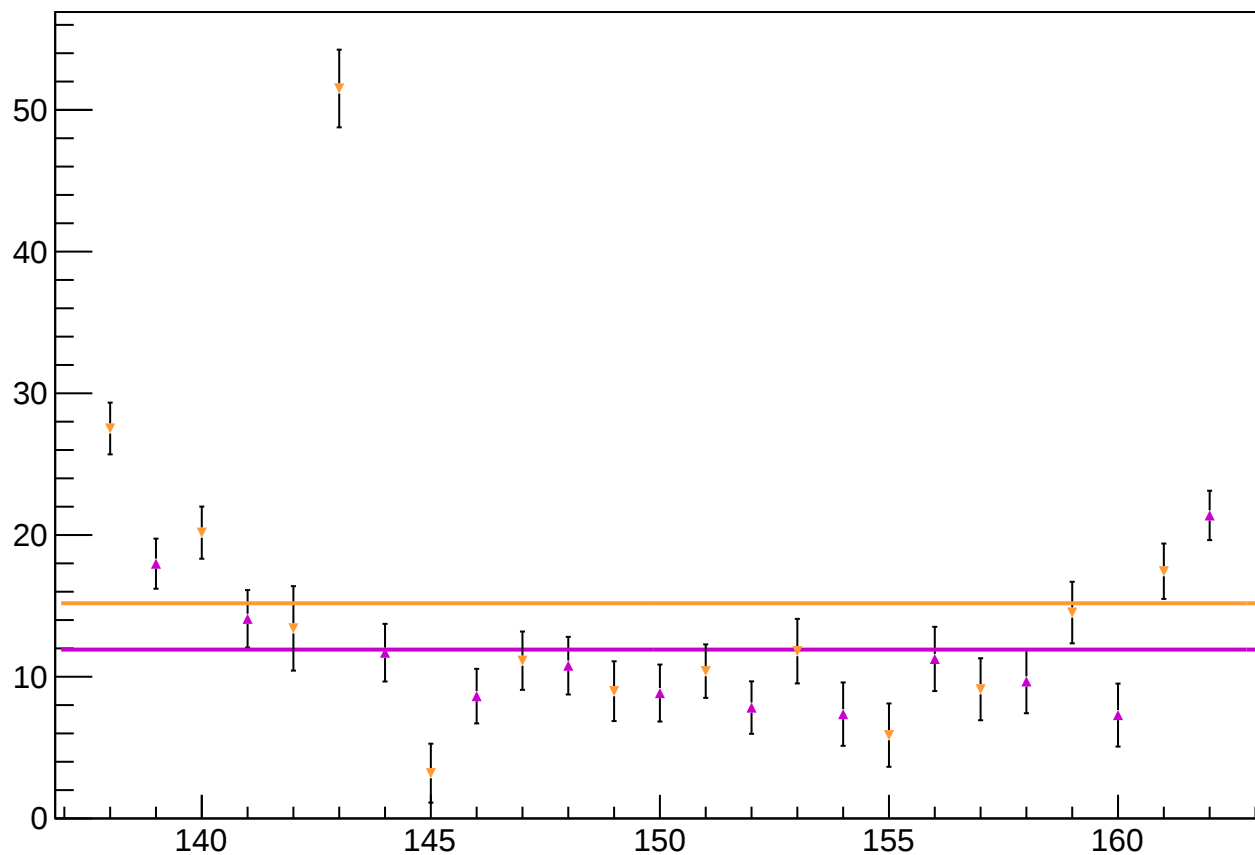
Right:  $-17.648 \pm 0.032$   $\chi^2/\text{NDF}: 910108.0/35$

In:  $-20.834 \pm 0.020$   $\chi^2/\text{NDF}: 641104.9/28$

Out:  $-21.886 \pm 0.021$   $\chi^2/\text{NDF}: 619833.3/31$

All:  $-21.346 \pm 0.015$   $\chi^2/\text{NDF}: 1262224.3/60$

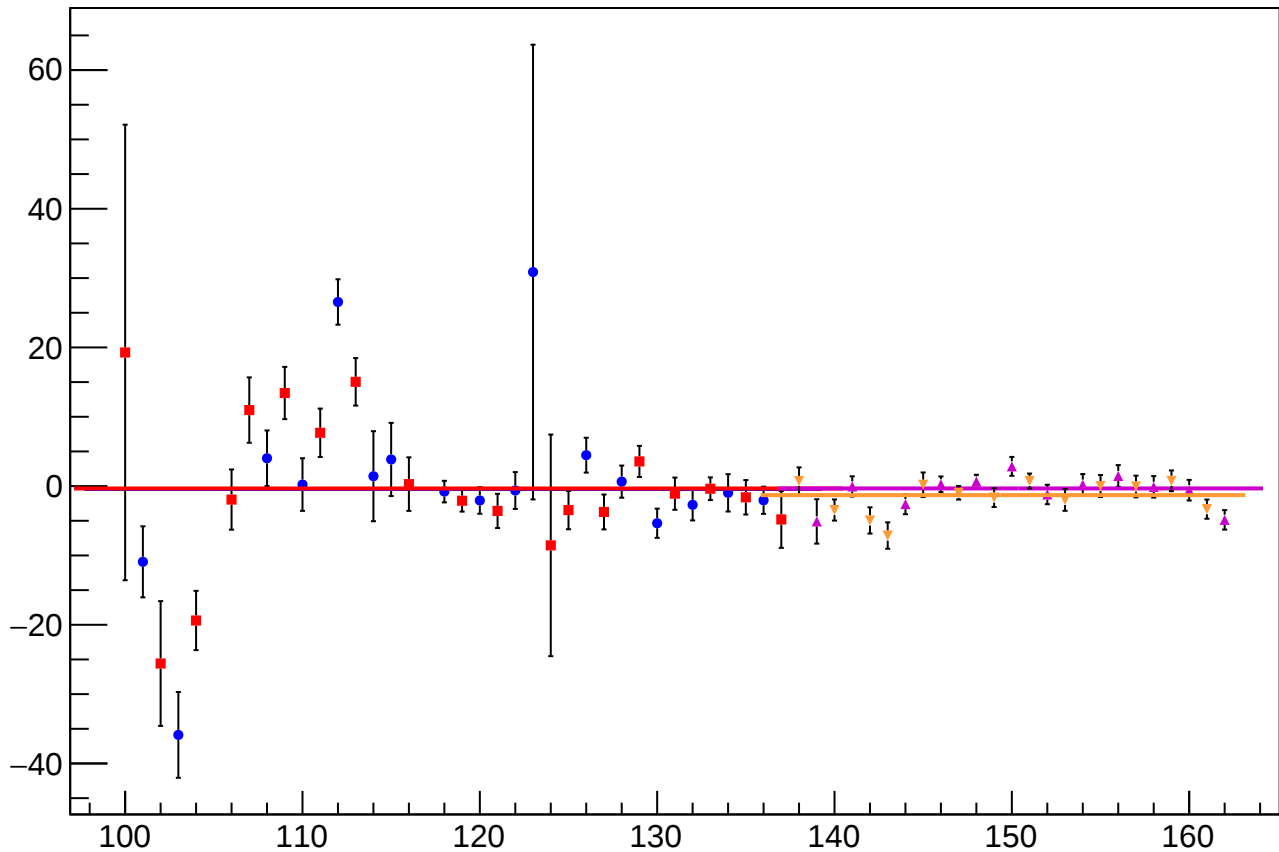
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 15.185+/-0.588  $\chi^2/\text{NDF}$ :309.8/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.916+/-0.579  $\chi^2/\text{NDF}$ :62.4/11

Left: 13.525+/-0.413  $\chi^2/\text{NDF}$ : 387.9/24  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.916+/-0.579  $\chi^2/\text{NDF}$ :62.4/11  
 Out: 15.185+/-0.588  $\chi^2/\text{NDF}$ :309.8/12  
 All: 13.525+/-0.413  $\chi^2/\text{NDF}$ : 387.9/24

reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.414 \pm 0.653$   $\chi^2/\text{NDF}$ : 119.9/16

Left Out:  $-1.300 \pm 0.401$   $\chi^2/\text{NDF}$ : 26.2/12

Right Out:  $-0.342 \pm 0.658$   $\chi^2/\text{NDF}$ : 83.7/18

Left In:  $-0.336 \pm 0.405$   $\chi^2/\text{NDF}$ : 23.7/11

Left:  $-0.822 \pm 0.285$   $\chi^2/\text{NDF}$ : 52.8/24

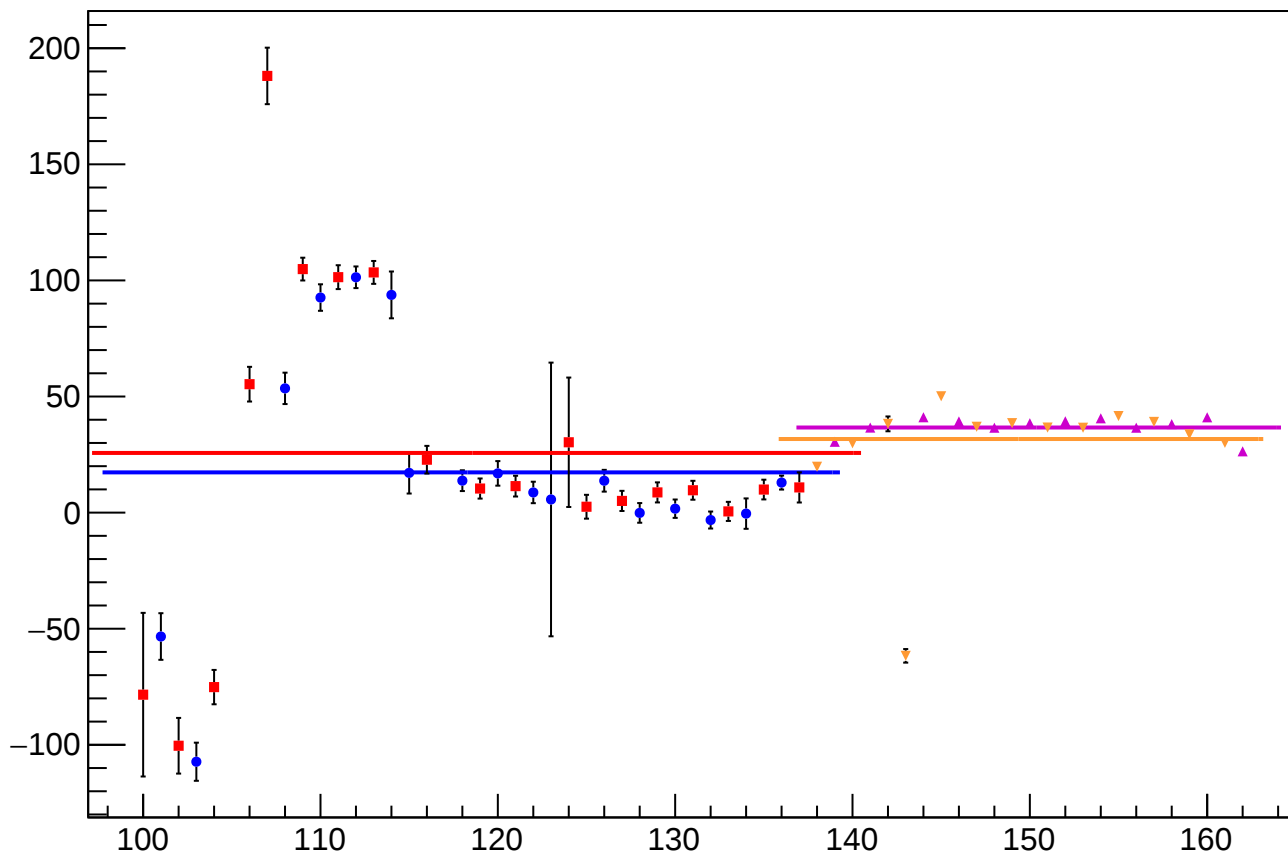
Right:  $-0.378 \pm 0.463$   $\chi^2/\text{NDF}$ : 203.7/35

In:  $-0.358 \pm 0.344$   $\chi^2/\text{NDF}$ : 143.6/28

Out:  $-1.040 \pm 0.343$   $\chi^2/\text{NDF}$ : 111.5/31

All:  $-0.700 \pm 0.243$   $\chi^2/\text{NDF}$ : 257.1/60

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.328+/-1.239  $\chi^2/\text{NDF}$ : 943.2/16

Left Out: 31.699+/-0.577  $\chi^2/\text{NDF}$ :1200.8/12

Right Out: 25.701+/-1.243  $\chi^2/\text{NDF}$ : 1379.1/18

Left In: 36.653+/-0.563  $\chi^2/\text{NDF}$ :65.8/11

Left: 34.233+/-0.403  $\chi^2/\text{NDF}$ : 1304.4/24

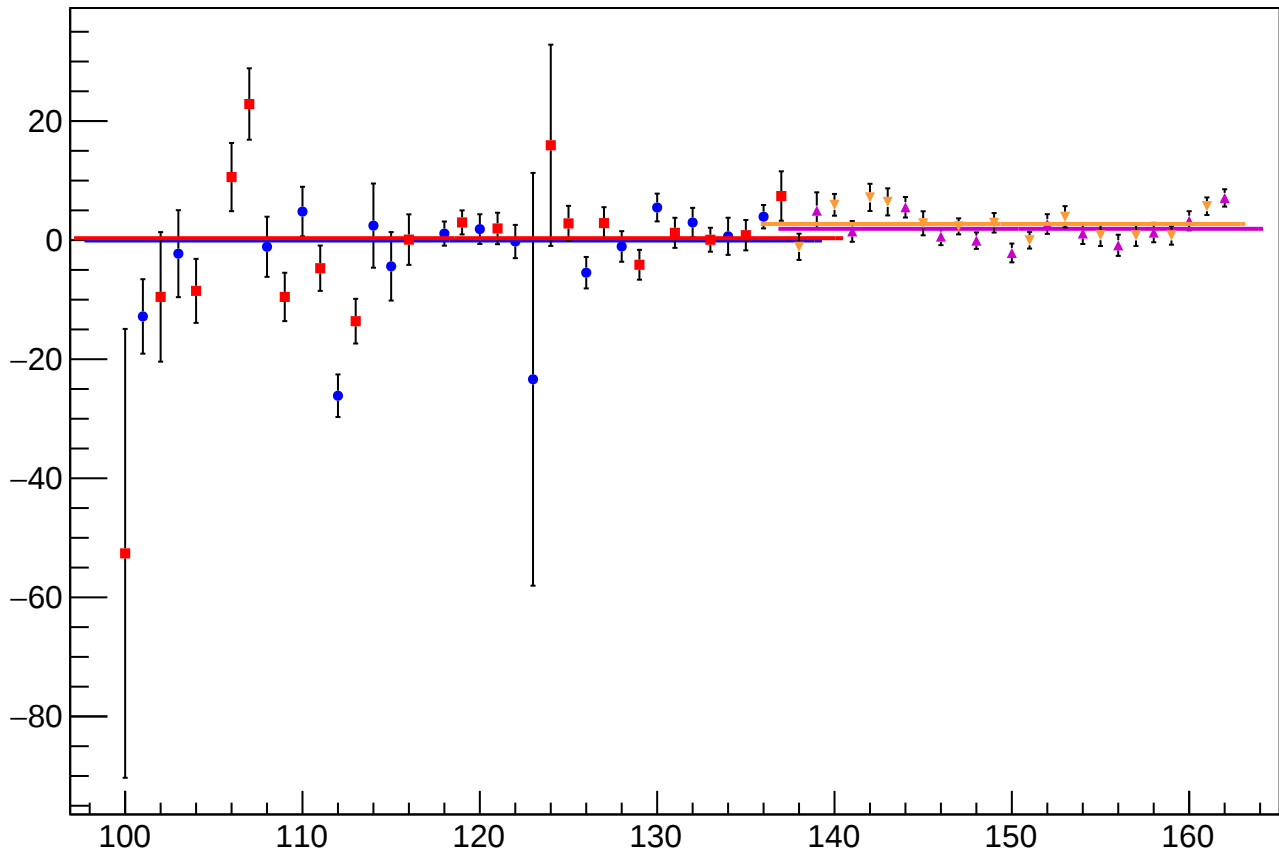
Right: 21.501+/-0.877  $\chi^2/\text{NDF}$ : 2345.0/35

In: 33.340+/-0.513  $\chi^2/\text{NDF}$ :1210.6/28

Out: 30.636+/-0.523  $\chi^2/\text{NDF}$ :2599.1/31

All: 32.015+/-0.366  $\chi^2/\text{NDF}$ : 3823.3/60

reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.059 \pm 0.744$   $\chi^2/\text{NDF}$ : 76.5/16

Left Out:  $2.724 \pm 0.479$   $\chi^2/\text{NDF}$ : 24.8/12

Right Out:  $0.326 \pm 0.749$   $\chi^2/\text{NDF}$ : 55.1/18

Left In:  $1.903 \pm 0.476$   $\chi^2/\text{NDF}$ : 31.3/11

Left:  $2.312 \pm 0.338$   $\chi^2/\text{NDF}$ : 57.5/24

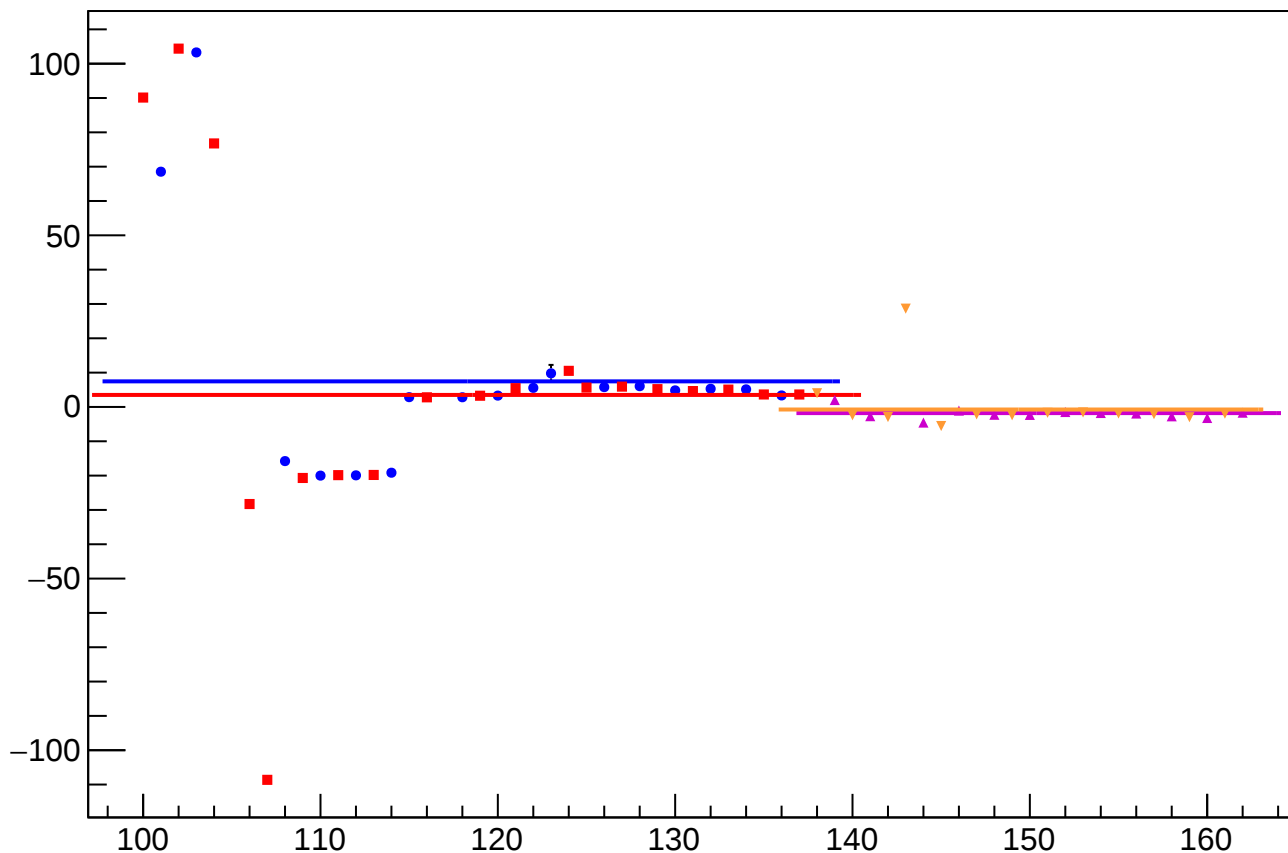
Right:  $0.132 \pm 0.528$   $\chi^2/\text{NDF}$ : 131.8/35

In:  $1.332 \pm 0.401$   $\chi^2/\text{NDF}$ : 112.8/28

Out:  $2.030 \pm 0.403$   $\chi^2/\text{NDF}$ : 87.2/31

All:  $1.679 \pm 0.284$   $\chi^2/\text{NDF}$ : 201.4/60

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 7.454+/-0.044  $\chi^2/\text{NDF}$ : 356053.3/16

Left Out: -0.744+/-0.022  $\chi^2/\text{NDF}$ : 73444.4/12

Right Out: 3.502+/-0.046  $\chi^2/\text{NDF}$ : 510579.7/18

Left In: -1.791+/-0.022  $\chi^2/\text{NDF}$ : 4805.1/11

Left: -1.281+/-0.016  $\chi^2/\text{NDF}$ : 79364.7/24

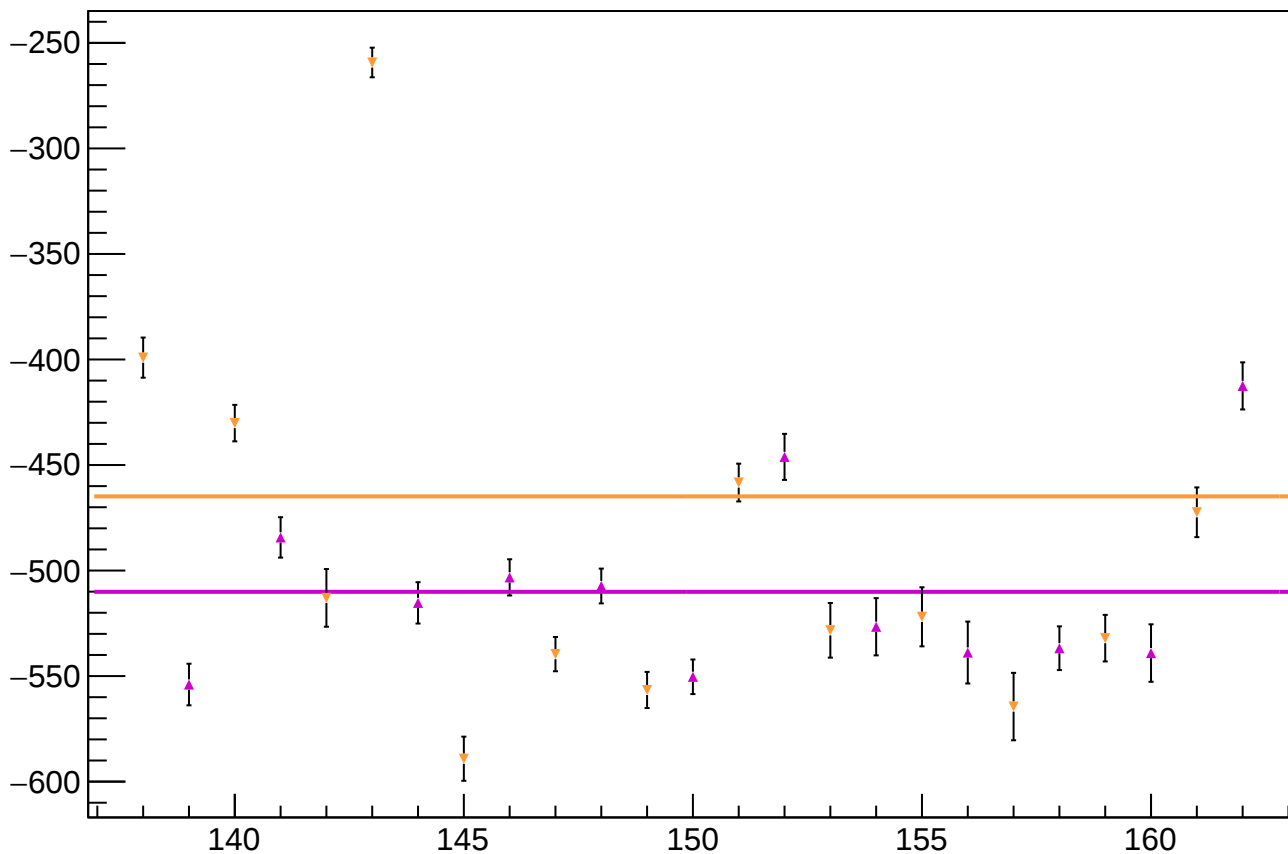
Right: 5.528+/-0.032  $\chi^2/\text{NDF}$ : 870492.1/35

In: 0.016+/-0.020  $\chi^2/\text{NDF}$ : 395706.9/28

Out: 0.086+/-0.020  $\chi^2/\text{NDF}$ : 591017.1/31

All: 0.050+/-0.014  $\chi^2/\text{NDF}$ : 986730.0/60

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -464.853+/-2.764  $\chi^2/\text{NDF}$ :1392.6/12

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

Left In: -510.077+/-2.934  $\chi^2/\text{NDF}$ :179.7/11

Left: -486.110+/-2.012  $\chi^2/\text{NDF}$ : 1698.2/24

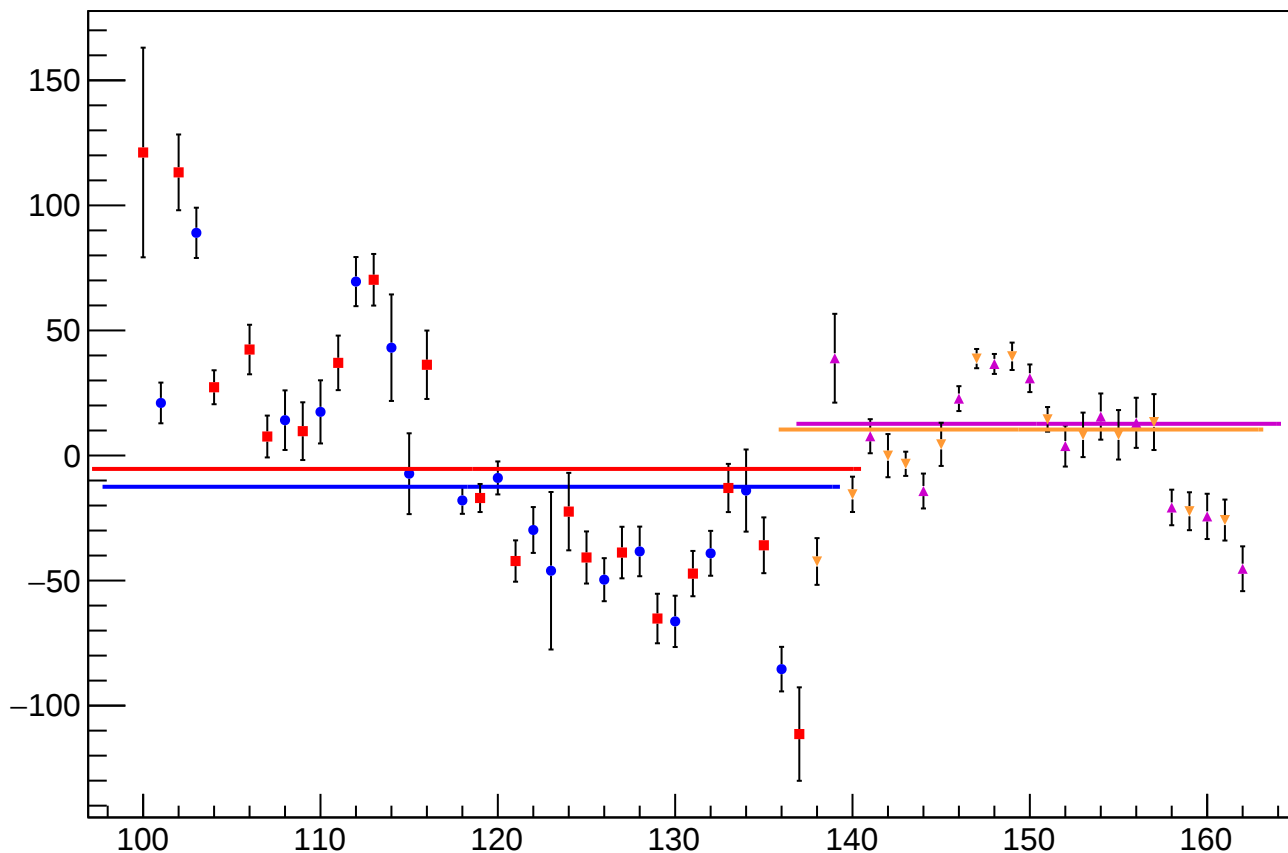
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -510.077+/-2.934  $\chi^2/\text{NDF}$ :179.7/11

Out: -464.853+/-2.764  $\chi^2/\text{NDF}$ :1392.6/12

All: -486.110+/-2.012  $\chi^2/\text{NDF}$ : 1698.2/24

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-12.500 \pm 2.311$   $\chi^2/\text{NDF}: 341.1/16$

Left Out:  $10.387 \pm 1.807$   $\chi^2/\text{NDF}: 177.2/12$

Right Out:  $-5.363 \pm 2.264$   $\chi^2/\text{NDF}: 344.6/18$

Left In:  $12.676 \pm 1.953$   $\chi^2/\text{NDF}: 150.5/11$

Left:  $11.443 \pm 1.326$   $\chi^2/\text{NDF}: 328.4/24$

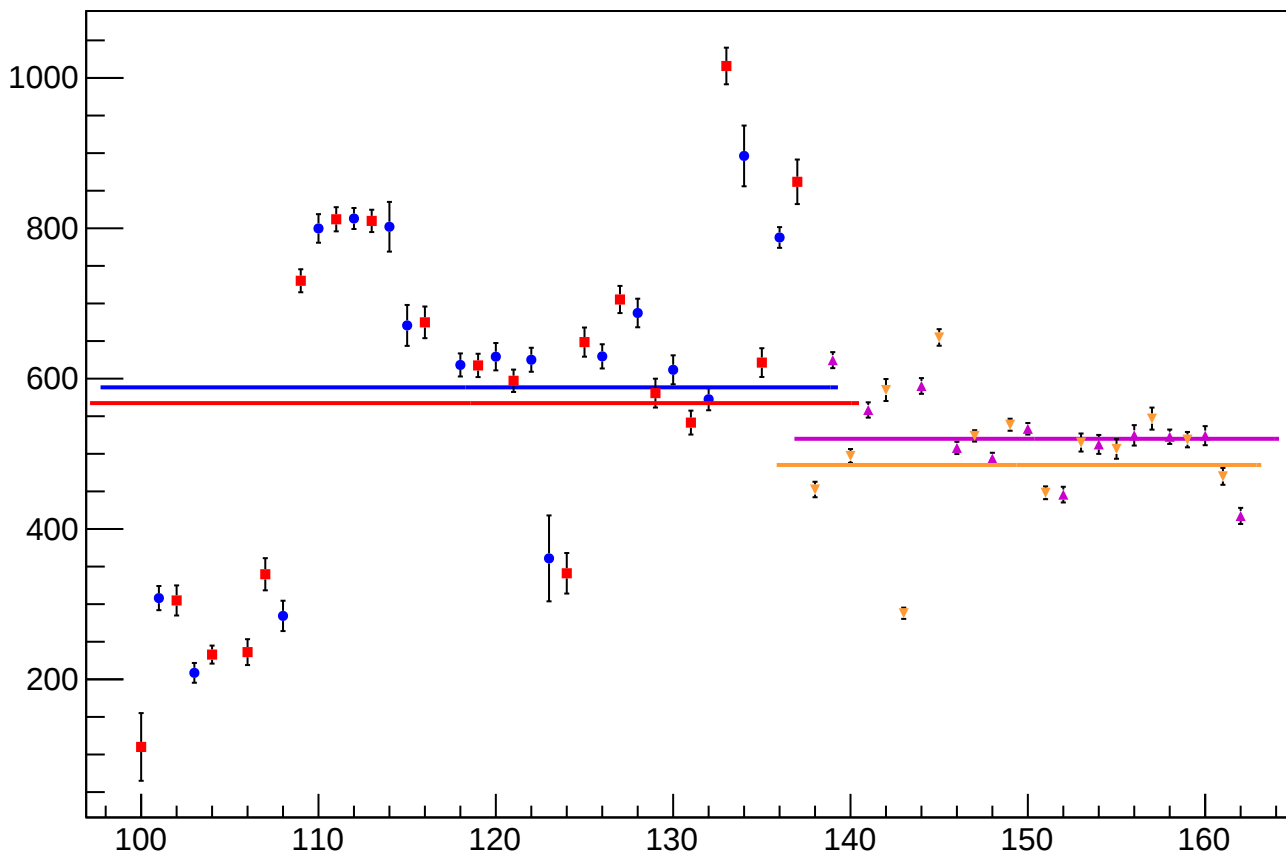
Right:  $-8.858 \pm 1.617$   $\chi^2/\text{NDF}: 690.5/35$

In:  $2.187 \pm 1.492$   $\chi^2/\text{NDF}: 560.8/28$

Out:  $4.260 \pm 1.412$   $\chi^2/\text{NDF}: 551.3/31$

All:  $3.280 \pm 1.026$   $\chi^2/\text{NDF}: 1113.1/60$

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 588.421+/-4.320  $\chi^2/\text{NDF}$ : 2130.2/16

Left Out: 485.168+/-2.736  $\chi^2/\text{NDF}$ :1117.4/12

Right Out: 567.451+/-4.137  $\chi^2/\text{NDF}$ : 2784.8/18

Left In: 519.977+/-2.851  $\chi^2/\text{NDF}$ :314.8/11

Left: 501.851+/-1.974  $\chi^2/\text{NDF}$ : 1509.8/24

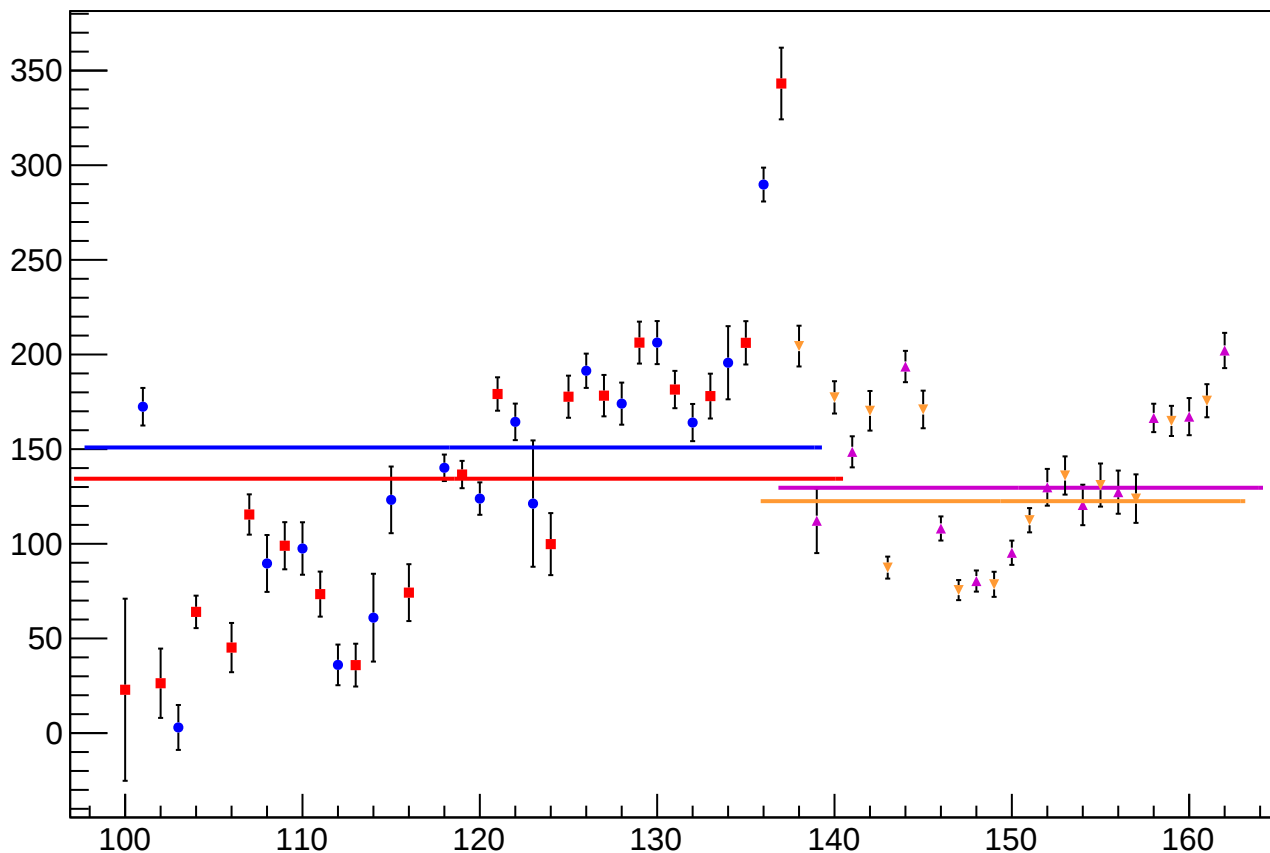
Right: 577.481+/-2.988  $\chi^2/\text{NDF}$ : 4927.3/35

In: 540.744+/-2.380  $\chi^2/\text{NDF}$ :2619.8/28

Out: 510.201+/-2.282  $\chi^2/\text{NDF}$ :4177.5/31

All: 524.831+/-1.647  $\chi^2/\text{NDF}$ : 6883.1/60

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 150.891 $\pm$ 2.674  $\chi^2$ /NDF: 634.8/16

Left Out: 122.526 $\pm$ 2.201  $\chi^2$ /NDF:372.7/12

Right Out: 134.381 $\pm$ 2.620  $\chi^2$ /NDF: 584.9/18

Left In: 129.605 $\pm$ 2.353  $\chi^2$ /NDF:284.6/11

Left: 125.830 $\pm$ 1.607  $\chi^2$ /NDF: 662.1/24

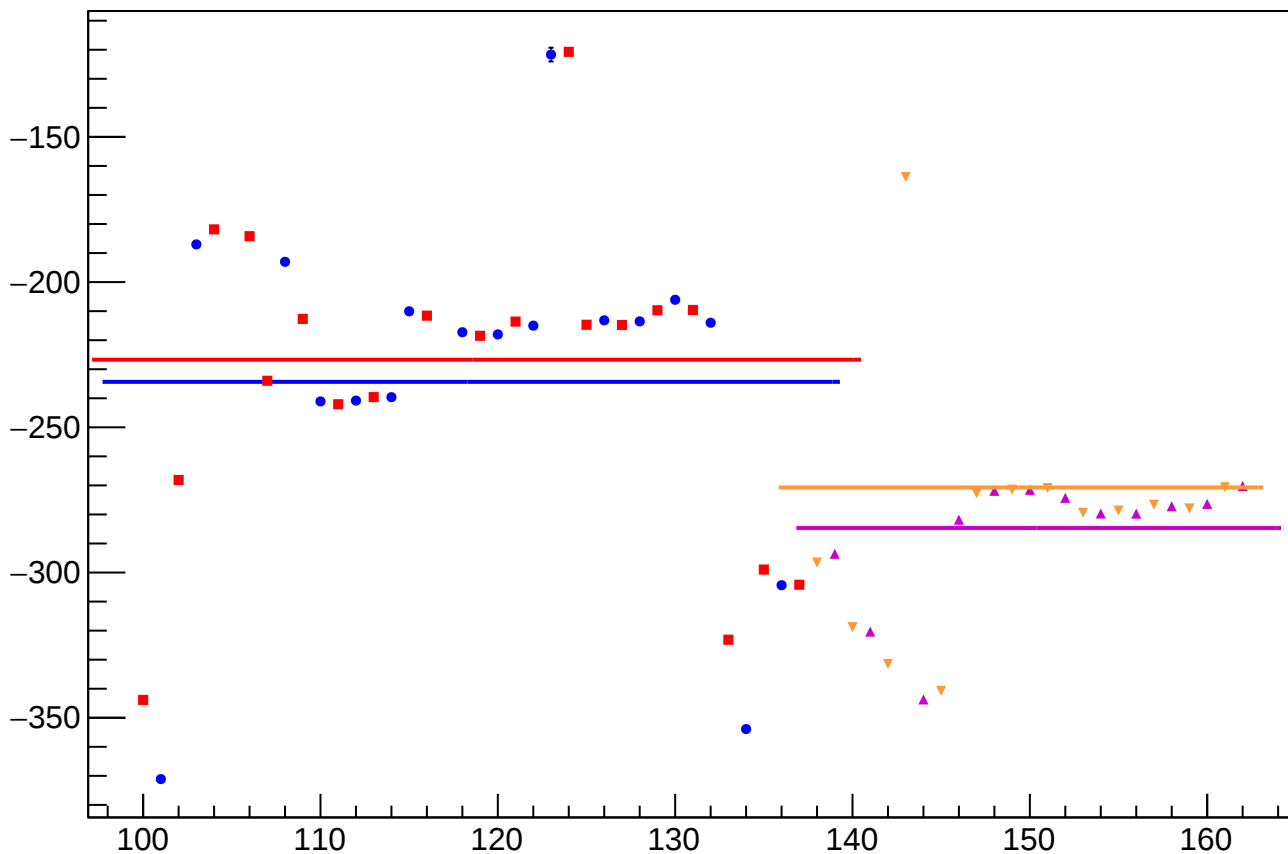
Right: 142.467 $\pm$ 1.871  $\chi^2$ /NDF: 1239.2/35

In: 138.893 $\pm$ 1.766  $\chi^2$ /NDF:955.1/28

Out: 127.432 $\pm$ 1.685  $\chi^2$ /NDF:969.6/31

All: 132.894 $\pm$ 1.219  $\chi^2$ /NDF: 1946.7/60

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -234.341+/-0.148  $\chi^2$ /NDF: 145165.1/16

Left Out: -270.700+/-0.110  $\chi^2$ /NDF:182670.2/12

Right Out: -226.716+/-0.141  $\chi^2$ /NDF: 99440.4/18

Left In: -284.666+/-0.113  $\chi^2$ /NDF:30666.0/11

Left: -277.486+/-0.079  $\chi^2$ /NDF: 221133.9/24

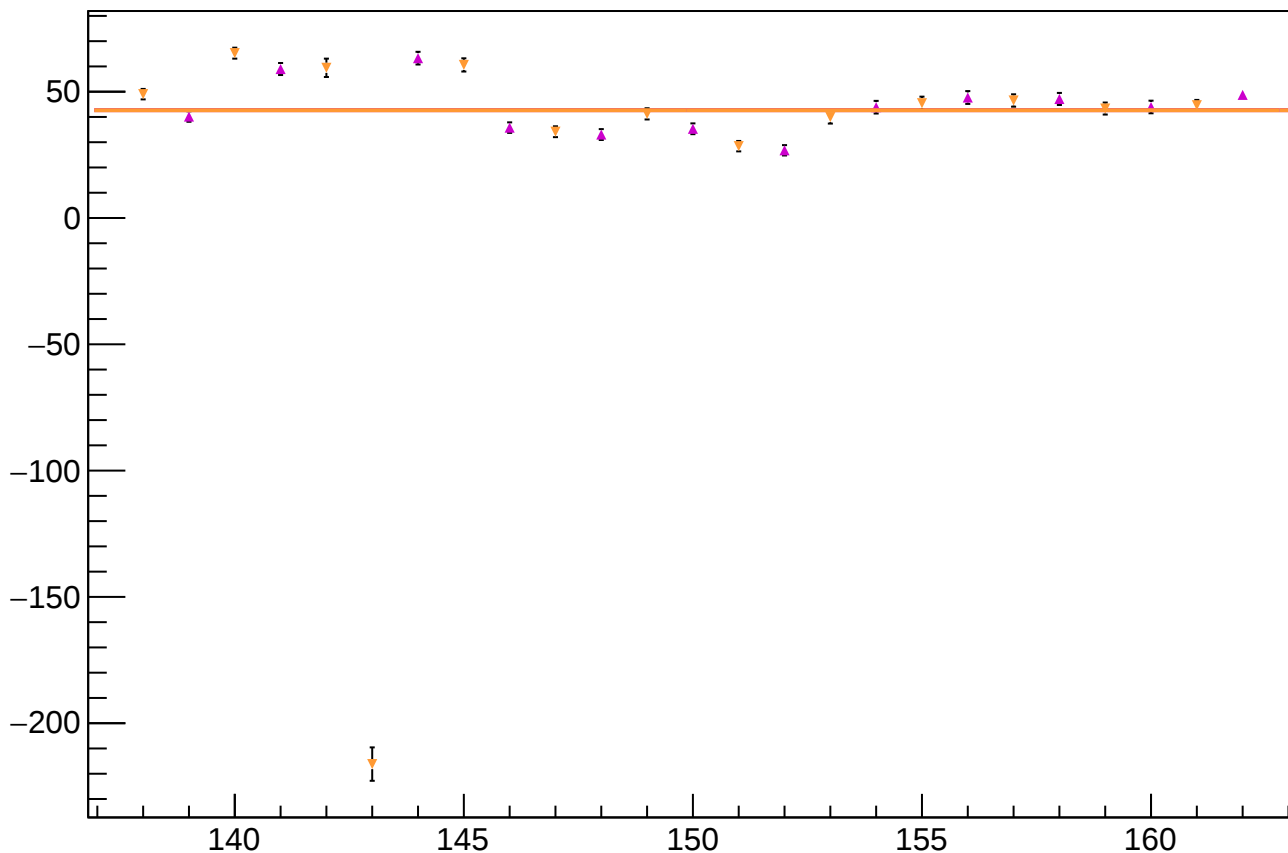
Right: -230.345+/-0.102  $\chi^2$ /NDF: 245990.9/35

In: -266.098+/-0.090  $\chi^2$ /NDF:248492.8/28

Out: -254.062+/-0.087  $\chi^2$ /NDF:342330.5/31

All: -259.865+/-0.063  $\chi^2$ /NDF: 600068.4/60

reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 42.658+/-0.672  $\chi^2/\text{NDF}$ :1787.7/12

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

Left In: 42.707+/-0.646  $\chi^2/\text{NDF}$ :236.5/11

Left: 42.683+/-0.466  $\chi^2/\text{NDF}$ : 2024.2/24

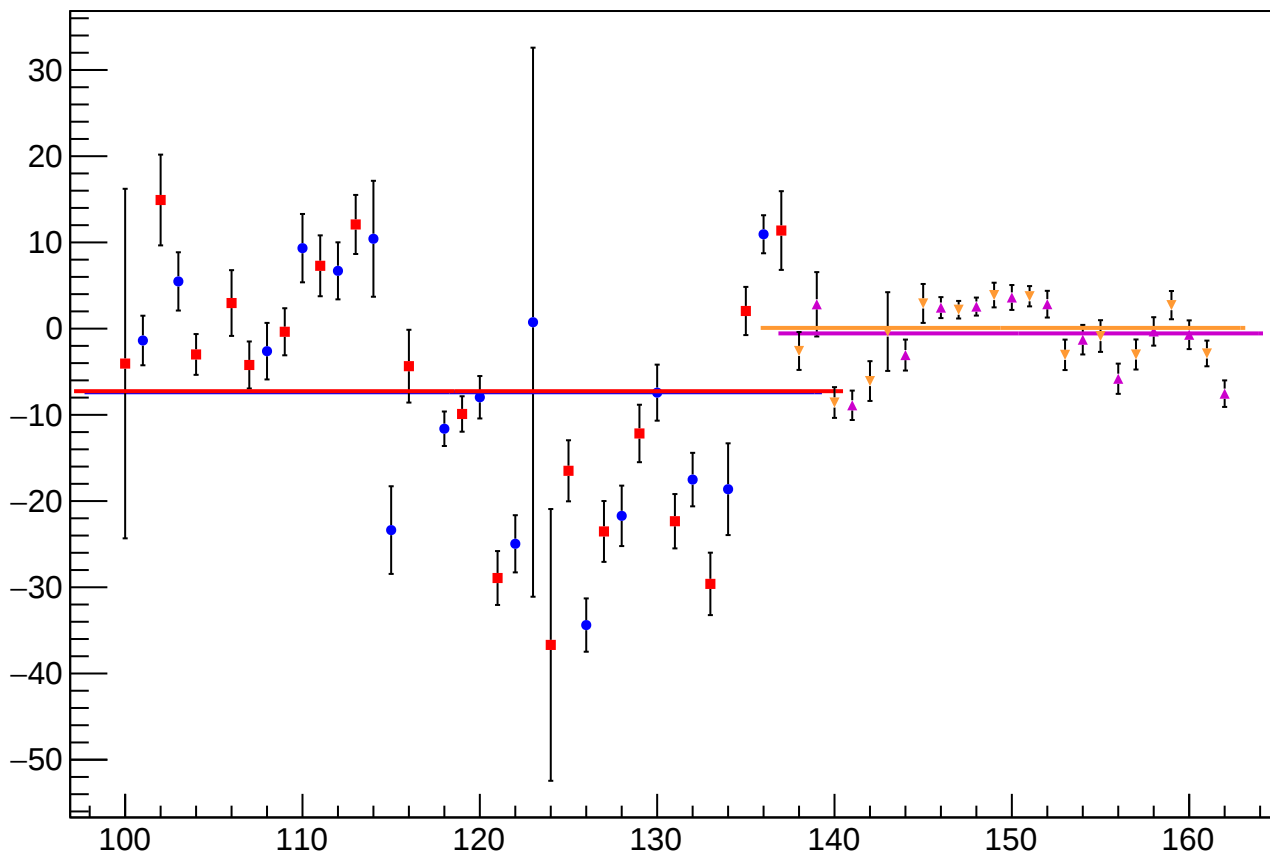
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.707+/-0.646  $\chi^2/\text{NDF}$ :236.5/11

Out: 42.658+/-0.672  $\chi^2/\text{NDF}$ :1787.7/12

All: 42.683+/-0.466  $\chi^2/\text{NDF}$ : 2024.2/24

reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.381 \pm 0.779$   $\chi^2/\text{NDF}$ : 283.6/16

Left Out:  $0.084 \pm 0.452$   $\chi^2/\text{NDF}$ : 68.0/12

Right Out:  $-7.256 \pm 0.762$   $\chi^2/\text{NDF}$ : 257.3/18

Left In:  $-0.554 \pm 0.446$   $\chi^2/\text{NDF}$ : 84.5/11

Left:  $-0.239 \pm 0.317$   $\chi^2/\text{NDF}$ : 153.5/24

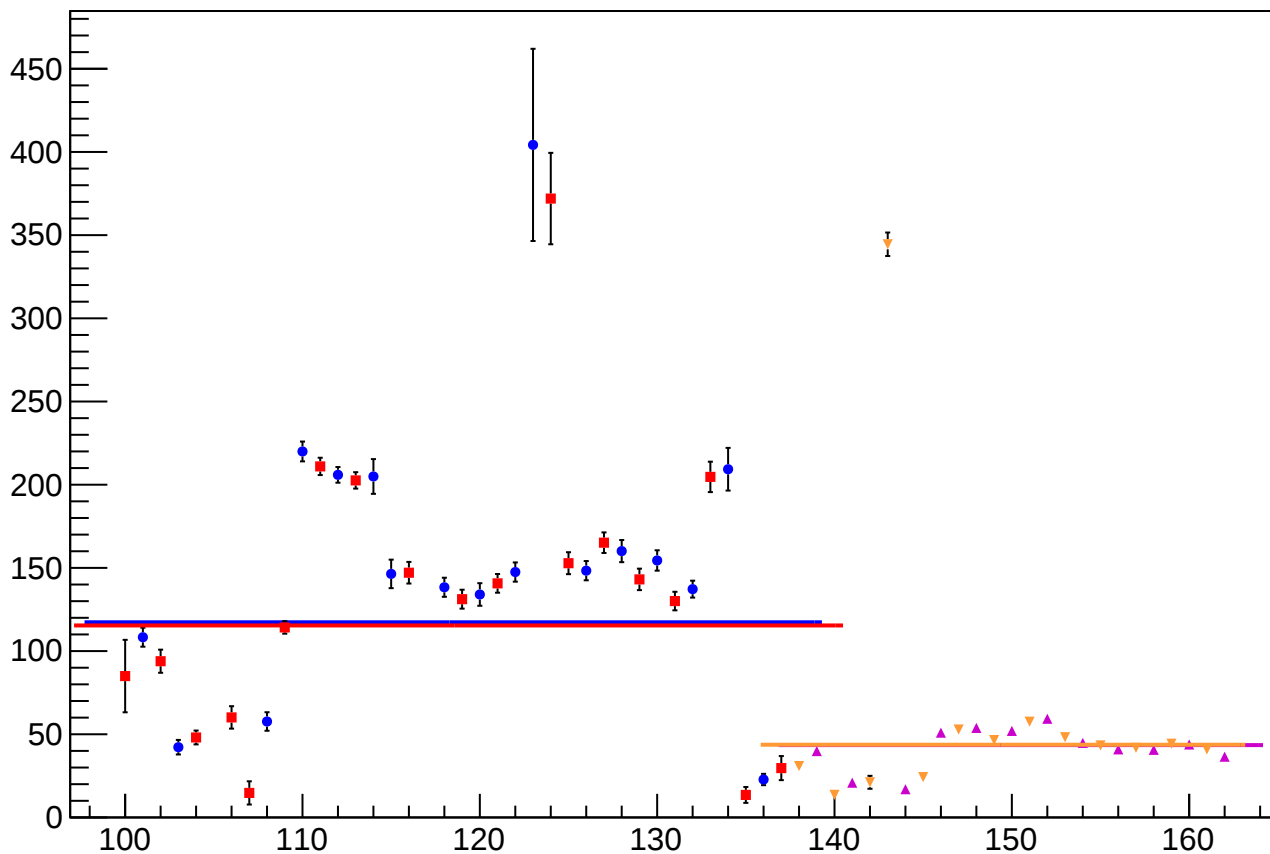
Right:  $-7.317 \pm 0.545$   $\chi^2/\text{NDF}$ : 540.9/35

In:  $-2.240 \pm 0.387$   $\chi^2/\text{NDF}$ : 426.0/28

Out:  $-1.826 \pm 0.389$   $\chi^2/\text{NDF}$ : 393.9/31

All:  $-2.034 \pm 0.274$   $\chi^2/\text{NDF}$ : 820.5/60

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 117.302 $\pm$ 1.409  $\chi^2$ /NDF: 2161.3/16

Left Out: 43.712 $\pm$ 0.654  $\chi^2$ /NDF:2181.9/12

Right Out: 115.405 $\pm$ 1.361  $\chi^2$ /NDF: 2150.5/18

Left In: 43.487 $\pm$ 0.626  $\chi^2$ /NDF:320.9/11

Left: 43.595 $\pm$ 0.452  $\chi^2$ /NDF: 2502.9/24

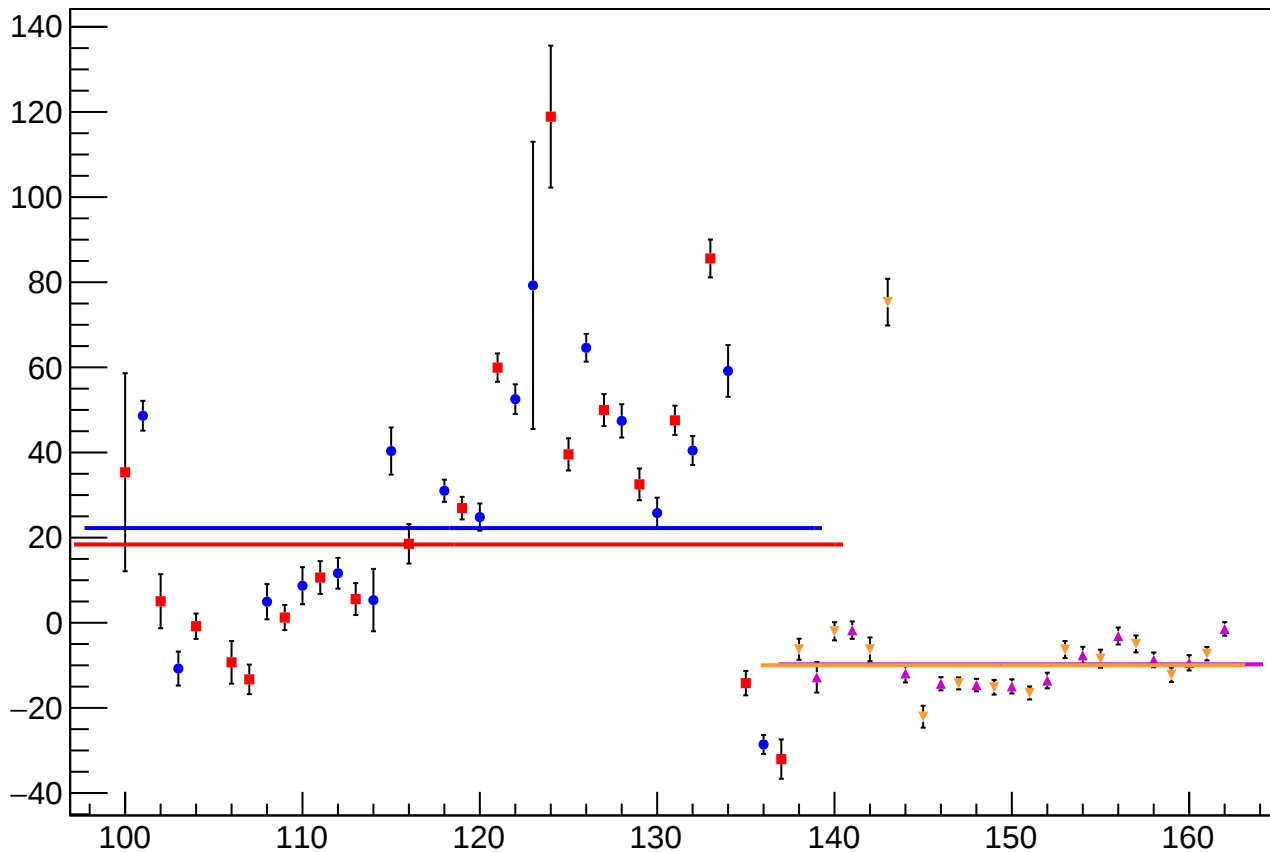
Right: 116.321 $\pm$ 0.979  $\chi^2$ /NDF: 4312.7/35

In: 55.661 $\pm$ 0.572  $\chi^2$ /NDF:4775.4/28

Out: 57.167 $\pm$ 0.589  $\chi^2$ /NDF:6587.8/31

All: 56.391 $\pm$ 0.411  $\chi^2$ /NDF: 11366.6/60

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $22.250 \pm 0.889$   $\chi^2/\text{NDF}: 1071.4/16$

Left Out:  $-9.974 \pm 0.541$   $\chi^2/\text{NDF}: 333.8/12$

Right Out:  $18.395 \pm 0.872$   $\chi^2/\text{NDF}: 1077.1/18$

Left In:  $-9.766 \pm 0.526$   $\chi^2/\text{NDF}: 90.5/11$

Left:  $-9.867 \pm 0.377$   $\chi^2/\text{NDF}: 424.4/24$

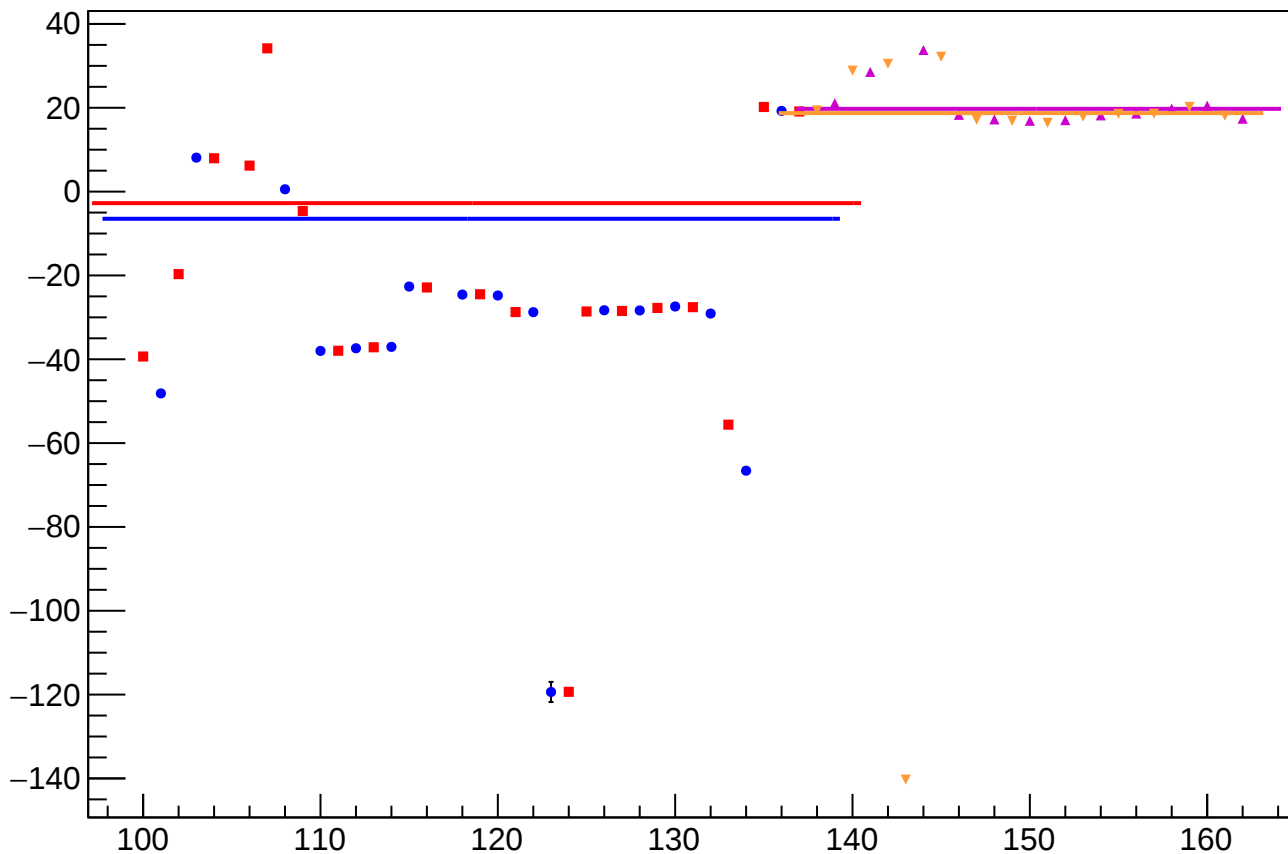
Right:  $20.284 \pm 0.622$   $\chi^2/\text{NDF}: 2158.2/35$

In:  $-1.455 \pm 0.453$   $\chi^2/\text{NDF}: 2121.9/28$

Out:  $-2.092 \pm 0.460$   $\chi^2/\text{NDF}: 2175.5/31$

All:  $-1.769 \pm 0.323$   $\chi^2/\text{NDF}: 4298.5/60$

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -6.482+/-0.046  $\chi^2/\text{NDF}$ : 265804.1/16

Left Out: 18.726+/-0.026  $\chi^2/\text{NDF}$ :348985.5/12

Right Out: -2.751+/-0.046  $\chi^2/\text{NDF}$ : 266291.4/18

Left In: 19.750+/-0.024  $\chi^2/\text{NDF}$ :27063.6/11

Left: 19.262+/-0.018  $\chi^2/\text{NDF}$ : 376890.7/24

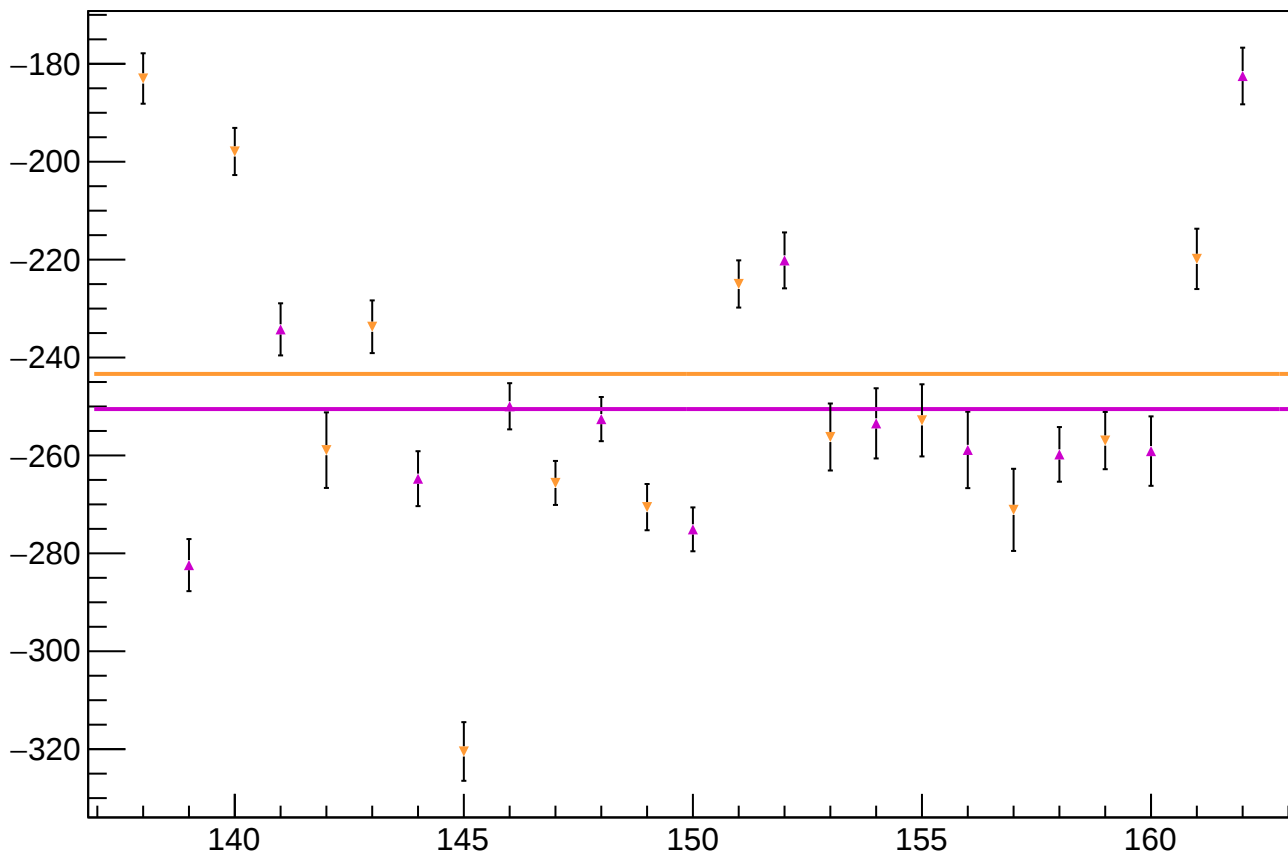
Right: -4.597+/-0.032  $\chi^2/\text{NDF}$ : 535394.7/35

In: 14.033+/-0.022  $\chi^2/\text{NDF}$ :545399.4/28

Out: 13.615+/-0.022  $\chi^2/\text{NDF}$ :783737.5/31

All: 13.831+/-0.015  $\chi^2/\text{NDF}$ : 1329318.1/60

reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -243.346+/-1.568  $\chi^2/\text{NDF}$ : 507.6/12

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

Left In: -250.526+/-1.592  $\chi^2/\text{NDF}$ : 254.0/11

Left: -246.881+/-1.117  $\chi^2/\text{NDF}$ : 771.9/24

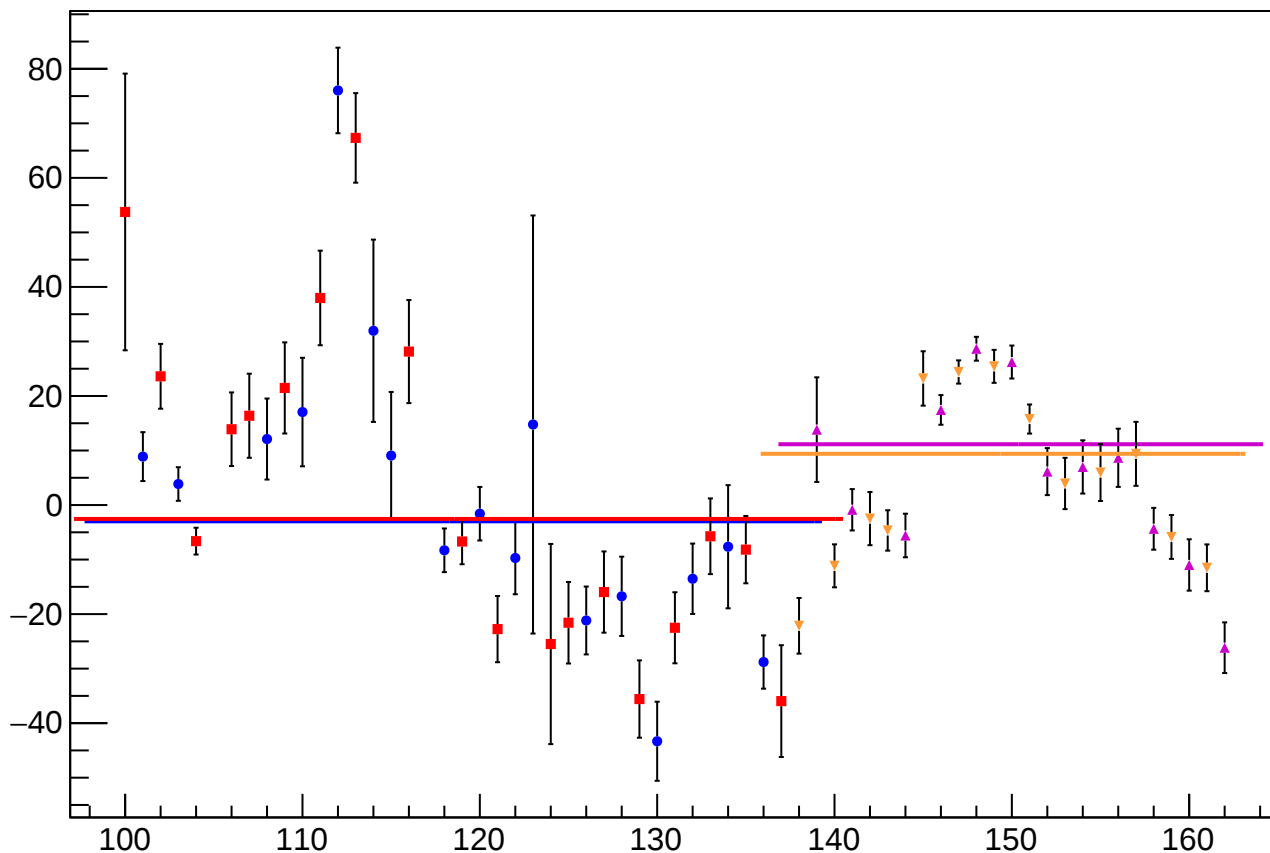
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -250.526+/-1.592  $\chi^2/\text{NDF}$ : 254.0/11

Out: -243.346+/-1.568  $\chi^2/\text{NDF}$ : 507.6/12

All: -246.881+/-1.117  $\chi^2/\text{NDF}$ : 771.9/24

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.981 \pm 1.450$   $\chi^2/\text{NDF}$ : 203.9/16

Left Out:  $9.397 \pm 1.023$   $\chi^2/\text{NDF}$ : 216.8/12

Right Out:  $-2.548 \pm 1.399$   $\chi^2/\text{NDF}$ : 218.1/18

Left In:  $11.150 \pm 1.062$   $\chi^2/\text{NDF}$ : 227.3/11

Left:  $10.241 \pm 0.737$   $\chi^2/\text{NDF}$ : 445.4/24

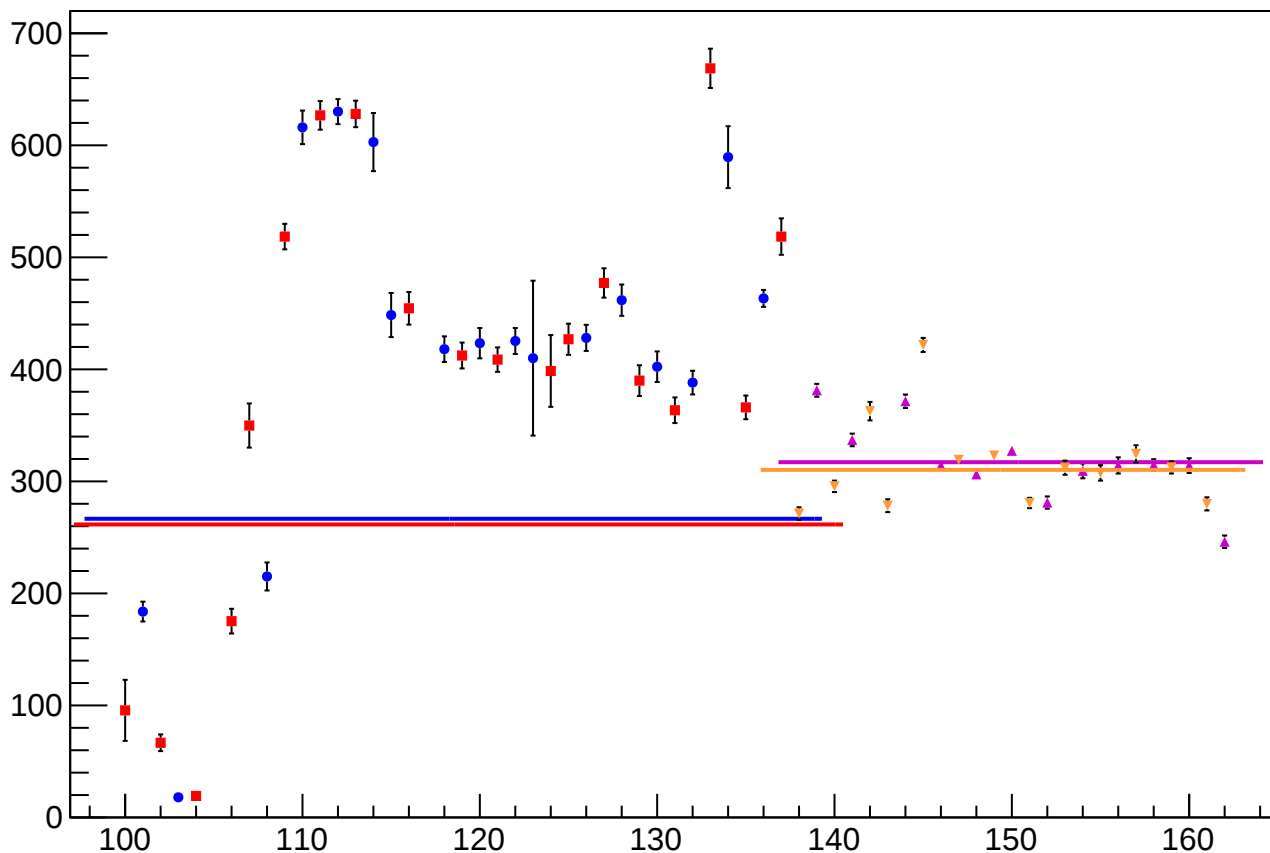
Right:  $-2.757 \pm 1.007$   $\chi^2/\text{NDF}$ : 422.1/35

In:  $6.220 \pm 0.857$   $\chi^2/\text{NDF}$ : 493.0/28

Out:  $5.234 \pm 0.826$   $\chi^2/\text{NDF}$ : 482.4/31

All:  $5.709 \pm 0.595$   $\chi^2/\text{NDF}$ : 976.1/60

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 266.624 $\pm$ 2.477  $\chi^2$ /NDF: 7662.7/16

Left Out: 310.270 $\pm$ 1.540  $\chi^2$ /NDF:527.2/12

Right Out: 261.551 $\pm$ 2.458  $\chi^2$ /NDF: 8208.2/18

Left In: 317.144 $\pm$ 1.545  $\chi^2$ /NDF:439.3/11

Left: 313.697 $\pm$ 1.091  $\chi^2$ /NDF: 976.4/24

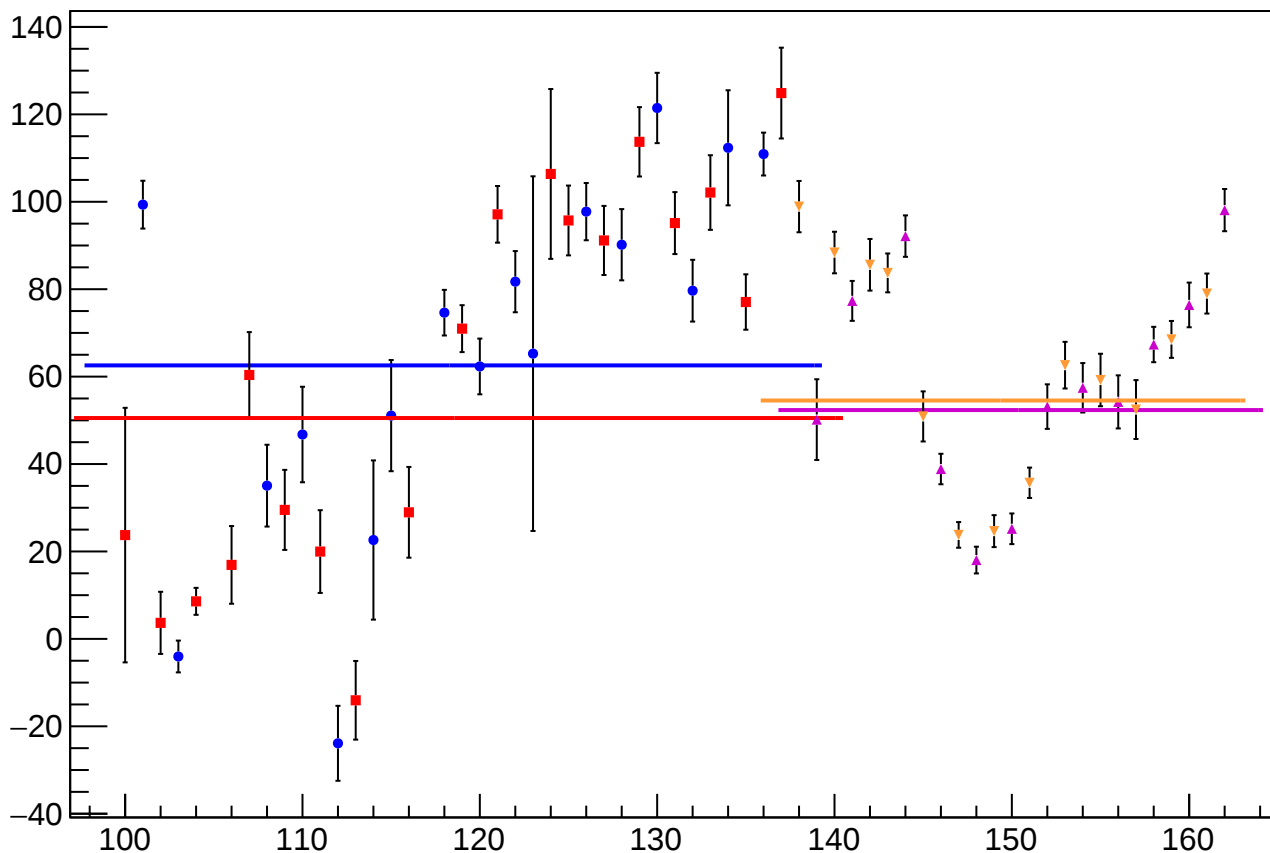
Right: 264.068 $\pm$ 1.745  $\chi^2$ /NDF: 15873.0/35

In: 302.998 $\pm$ 1.311  $\chi^2$ /NDF:8401.5/28

Out: 296.529 $\pm$ 1.305  $\chi^2$ /NDF:9017.5/31

All: 299.750 $\pm$ 0.925  $\chi^2$ /NDF: 17431.2/60

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 62.566+/-1.678  $\chi^2/\text{NDF}$ : 722.4/16

Left Out: 54.538+/-1.245  $\chi^2/\text{NDF}$ : 427.1/12

Right Out: 50.526+/-1.643  $\chi^2/\text{NDF}$ : 657.0/18

Left In: 52.348+/-1.276  $\chi^2/\text{NDF}$ : 427.8/11

Left: 53.471+/-0.891  $\chi^2/\text{NDF}$ : 856.4/24

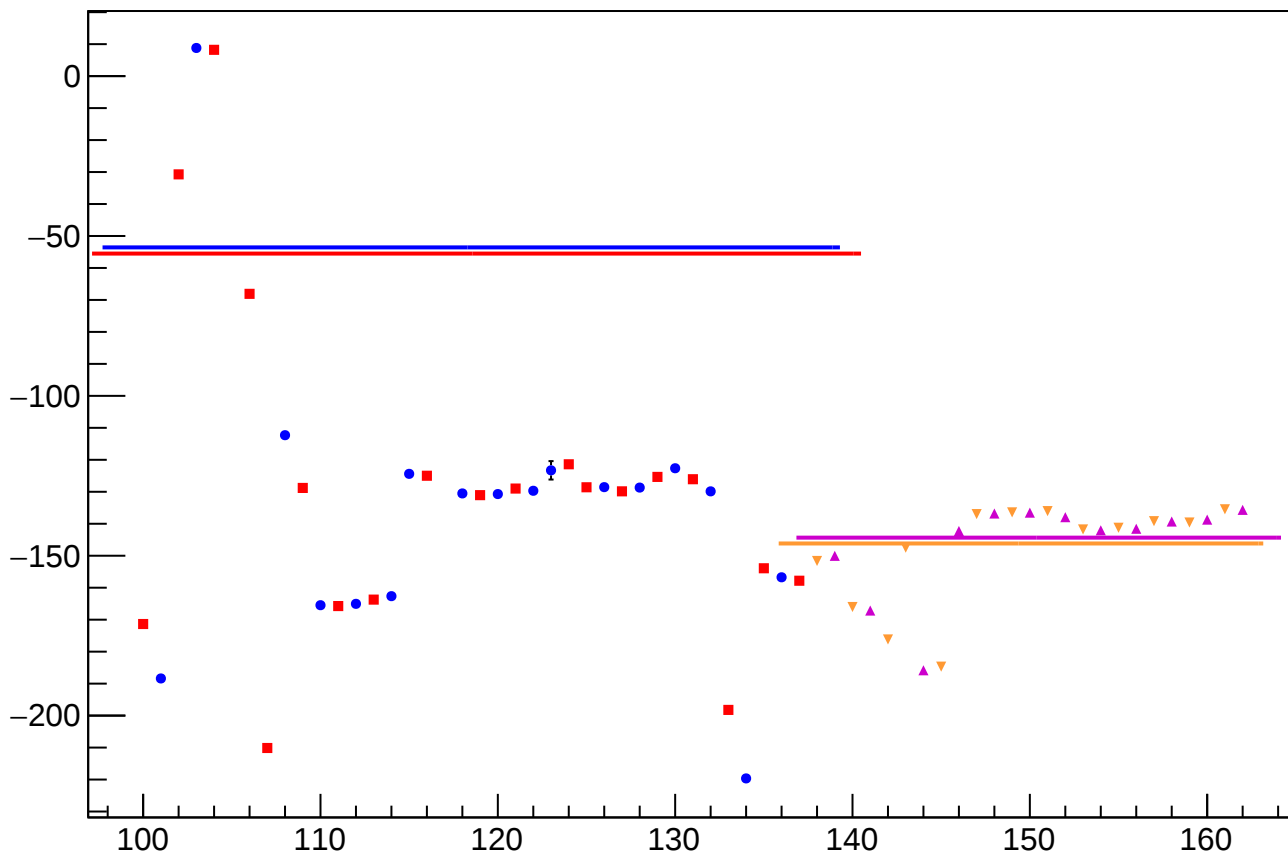
Right: 56.420+/-1.174  $\chi^2/\text{NDF}$ : 1405.7/35

In: 56.093+/-1.016  $\chi^2/\text{NDF}$ : 1173.7/28

Out: 53.075+/-0.992  $\chi^2/\text{NDF}$ : 1087.9/31

All: 54.549+/-0.710  $\chi^2/\text{NDF}$ : 2266.1/60

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-53.567 \pm 0.070$   $\chi^2/\text{NDF}: 1230233.3/16$

Left Out:  $-146.170 \pm 0.062$   $\chi^2/\text{NDF}: 53063.7/12$

Right Out:  $-55.502 \pm 0.072$   $\chi^2/\text{NDF}: 969632.0/18$

Left In:  $-144.344 \pm 0.061$   $\chi^2/\text{NDF}: 43295.3/11$

Left:  $-145.248 \pm 0.044$   $\chi^2/\text{NDF}: 96798.6/24$

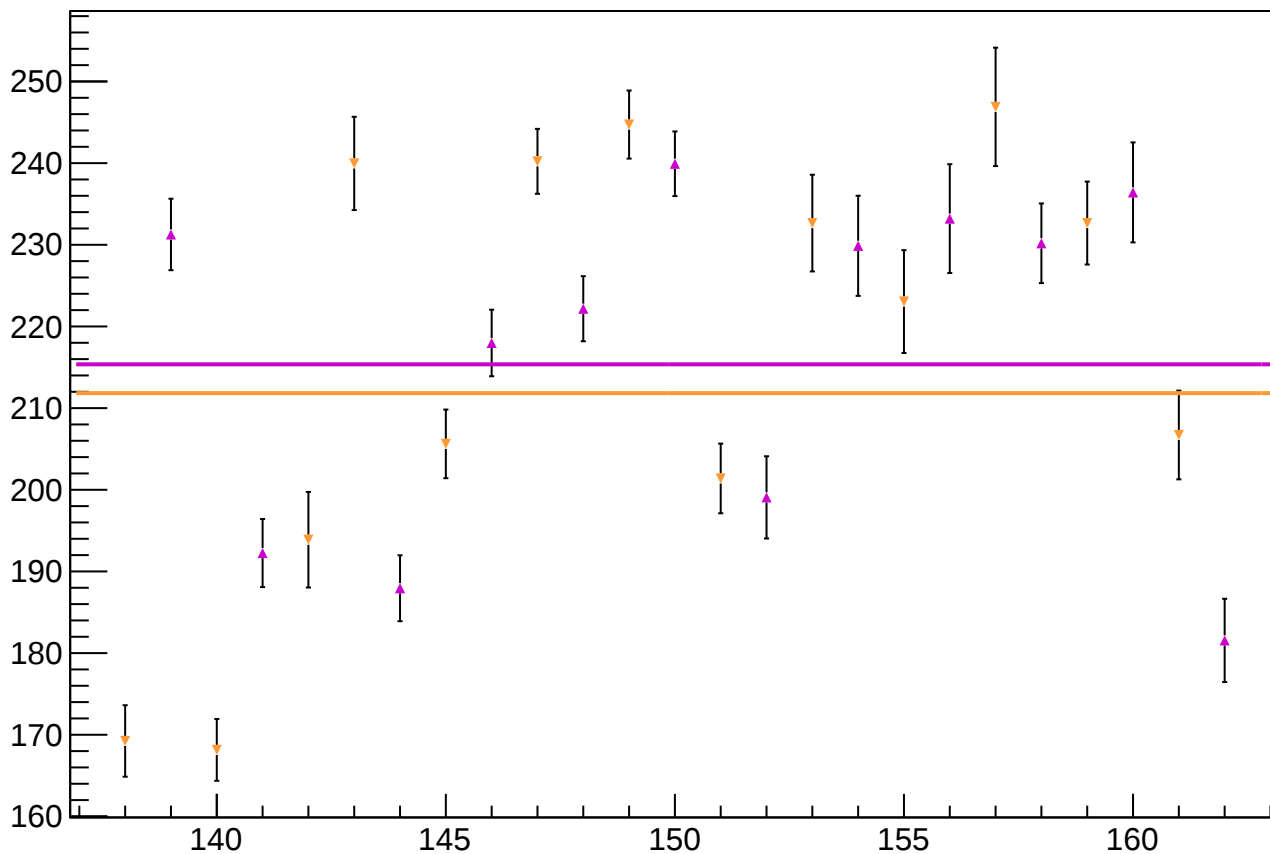
Right:  $-54.512 \pm 0.050$   $\chi^2/\text{NDF}: 2200235.7/35$

In:  $-105.148 \pm 0.046$   $\chi^2/\text{NDF}: 2221681.4/28$

Out:  $-107.608 \pm 0.047$   $\chi^2/\text{NDF}: 1936386.9/31$

All:  $-106.359 \pm 0.033$   $\chi^2/\text{NDF}: 4159465.6/60$

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 211.834+/-1.337  $\chi^2/\text{NDF}$ :439.9/12

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

Left In: 215.361+/-1.344  $\chi^2/\text{NDF}$ :220.2/11

Left: 213.588+/-0.948  $\chi^2/\text{NDF}$ : 663.6/24

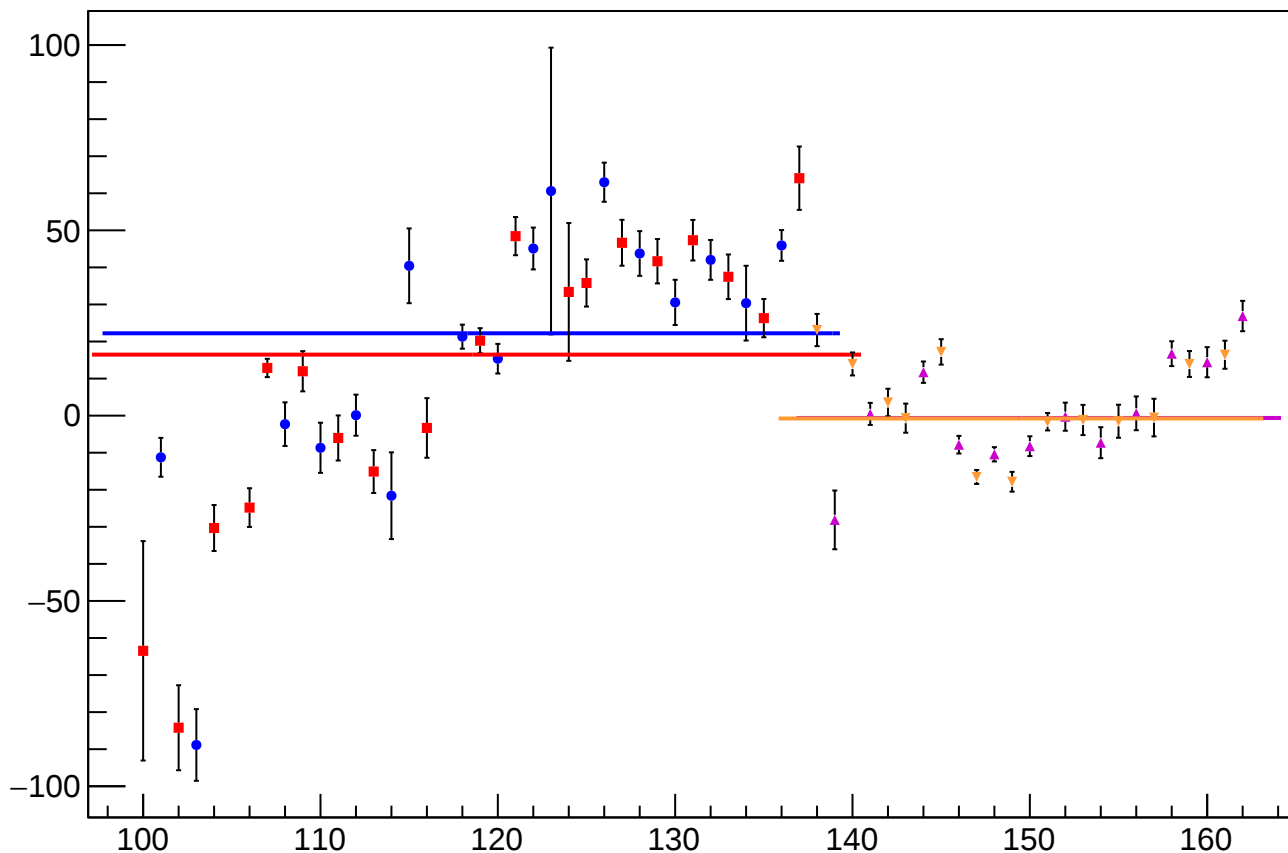
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 215.361+/-1.344  $\chi^2/\text{NDF}$ :220.2/11

Out: 211.834+/-1.337  $\chi^2/\text{NDF}$ :439.9/12

All: 213.588+/-0.948  $\chi^2/\text{NDF}$ : 663.6/24

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 22.221+/-1.374  $\chi^2/\text{NDF}$ : 385.6/16

Left Out: -0.763+/-0.883  $\chi^2/\text{NDF}$ : 231.0/12

Right Out: 16.466+/-1.230  $\chi^2/\text{NDF}$ : 425.9/18

Left In: -0.628+/-0.906  $\chi^2/\text{NDF}$ : 161.9/11

Left: -0.697+/-0.632  $\chi^2/\text{NDF}$ : 393.0/24

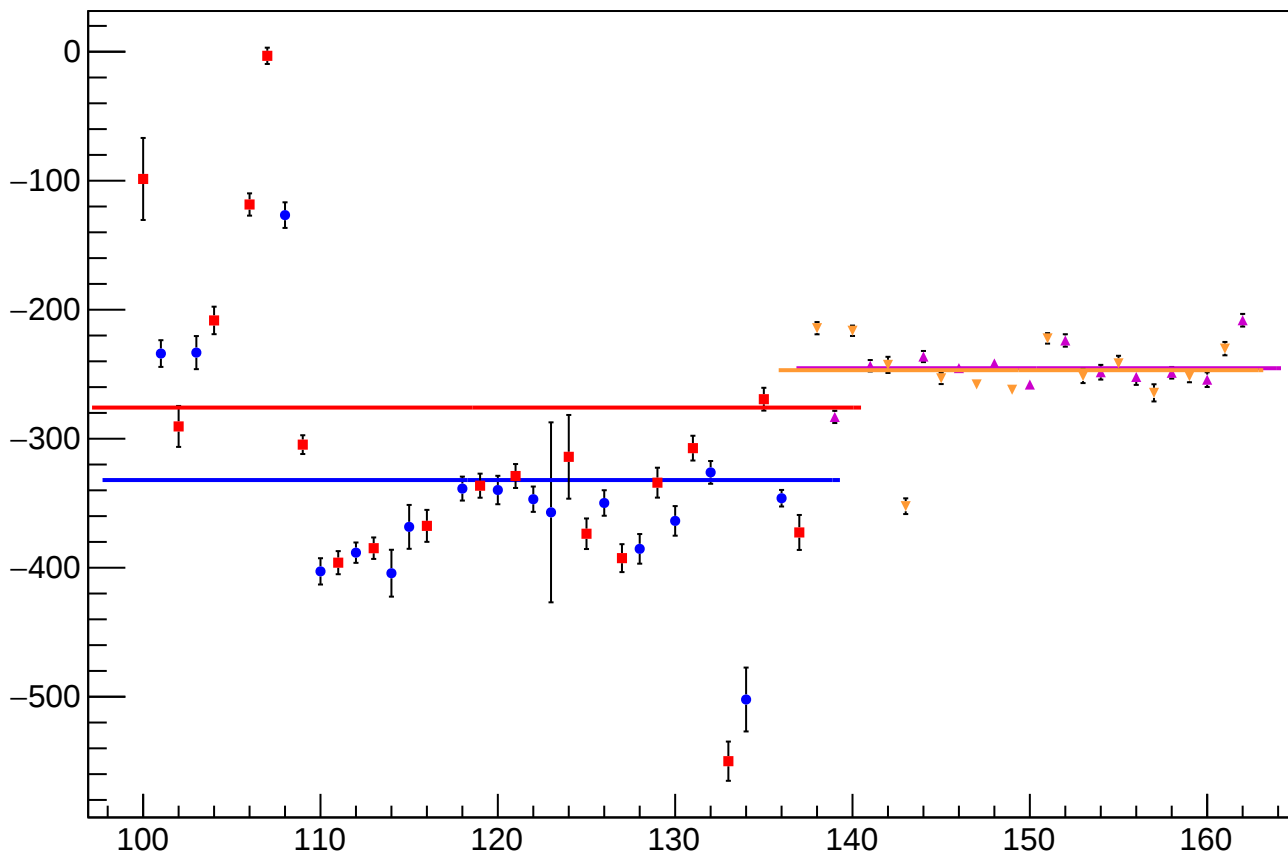
Right: 19.025+/-0.916  $\chi^2/\text{NDF}$ : 821.2/35

In: 6.297+/-0.756  $\chi^2/\text{NDF}$ : 740.3/28

Out: 5.097+/-0.717  $\chi^2/\text{NDF}$ : 786.5/31

All: 5.665+/-0.520  $\chi^2/\text{NDF}$ : 1528.2/60

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -332.037 $\pm$ 2.562  $\chi^2/\text{NDF}$ : 784.9/16

Left Out: -246.881 $\pm$ 1.319  $\chi^2/\text{NDF}$ : 486.8/12

Right Out: -275.853 $\pm$ 2.324  $\chi^2/\text{NDF}$ : 3362.8/18

Left In: -245.350 $\pm$ 1.312  $\chi^2/\text{NDF}$ : 162.8/11

Left: -246.111 $\pm$ 0.930  $\chi^2/\text{NDF}$ : 650.3/24

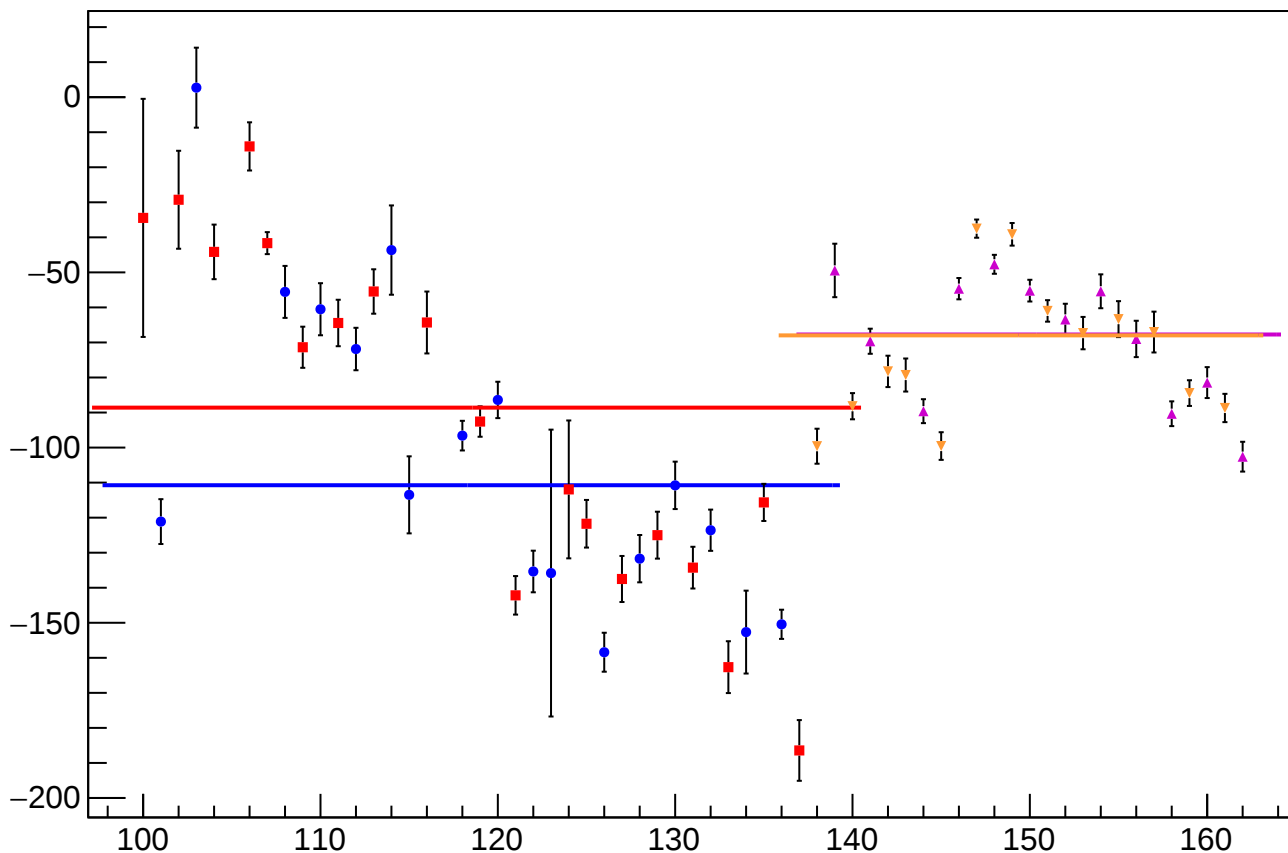
Right: -301.220 $\pm$ 1.721  $\chi^2/\text{NDF}$ : 4411.6/35

In: -263.352 $\pm$ 1.167  $\chi^2/\text{NDF}$ : 1854.8/28

Out: -253.938 $\pm$ 1.147  $\chi^2/\text{NDF}$ : 3967.2/31

All: -258.562 $\pm$ 0.818  $\chi^2/\text{NDF}$ : 5855.1/60

reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-110.745 \pm 1.578$   $\chi^2/\text{NDF}$ : 513.4/16

Left Out:  $-67.979 \pm 1.071$   $\chi^2/\text{NDF}$ : 414.3/12

Right Out:  $-88.600 \pm 1.435$   $\chi^2/\text{NDF}$ : 969.7/18

Left In:  $-67.728 \pm 1.087$   $\chi^2/\text{NDF}$ : 262.2/11

Left:  $-67.855 \pm 0.763$   $\chi^2/\text{NDF}$ : 676.5/24

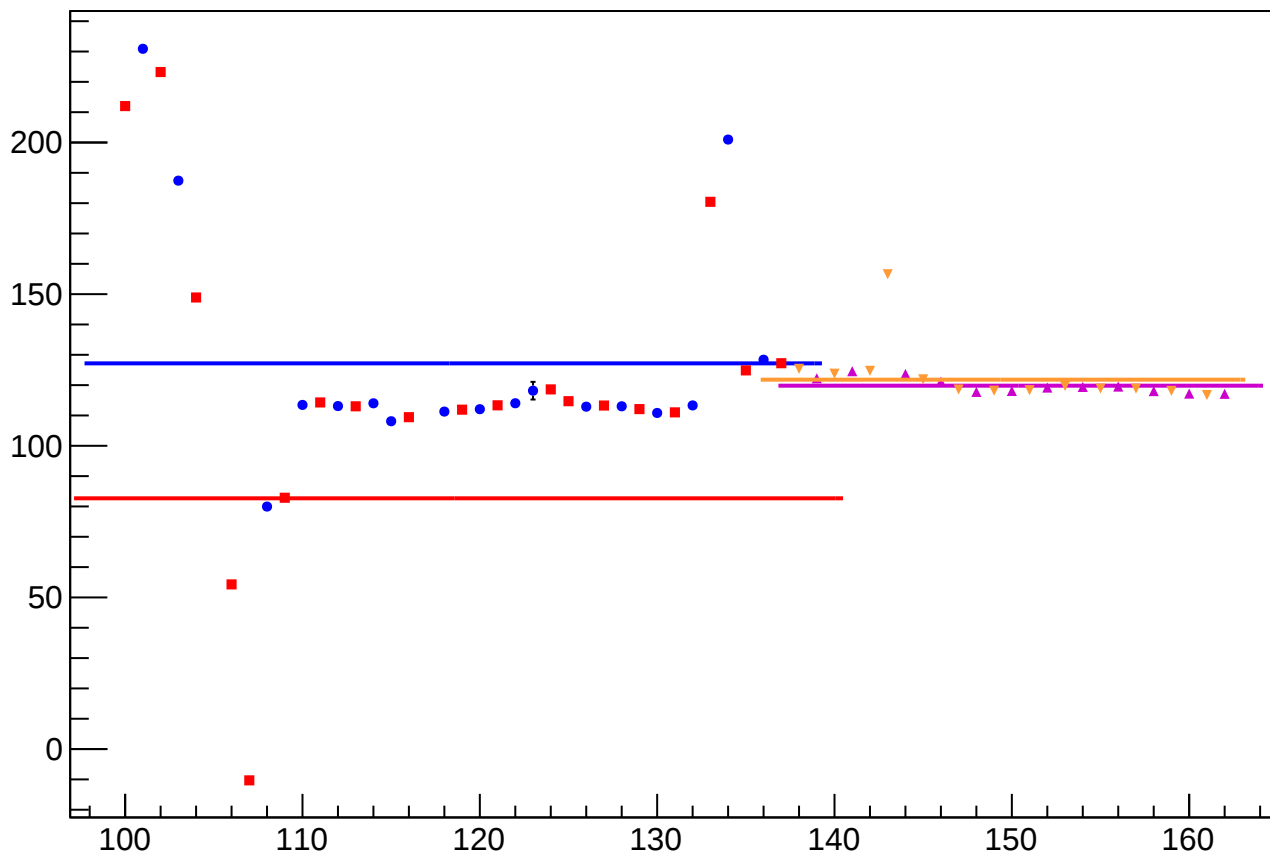
Right:  $-98.623 \pm 1.061$   $\chi^2/\text{NDF}$ : 1591.0/35

In:  $-81.573 \pm 0.895$   $\chi^2/\text{NDF}$ : 1279.8/28

Out:  $-75.363 \pm 0.858$   $\chi^2/\text{NDF}$ : 1516.7/31

All:  $-78.339 \pm 0.620$   $\chi^2/\text{NDF}$ : 2821.6/60

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 127.179+/-0.089  $\chi^2/\text{NDF}$ : 188050.9/16

Left Out: 121.804+/-0.053  $\chi^2/\text{NDF}$ : 23630.0/12

Right Out: 82.684+/-0.075  $\chi^2/\text{NDF}$ : 765716.0/18

Left In: 119.820+/-0.052  $\chi^2/\text{NDF}$ : 2170.2/11

Left: 120.796+/-0.037  $\chi^2/\text{NDF}$ : 26514.8/24

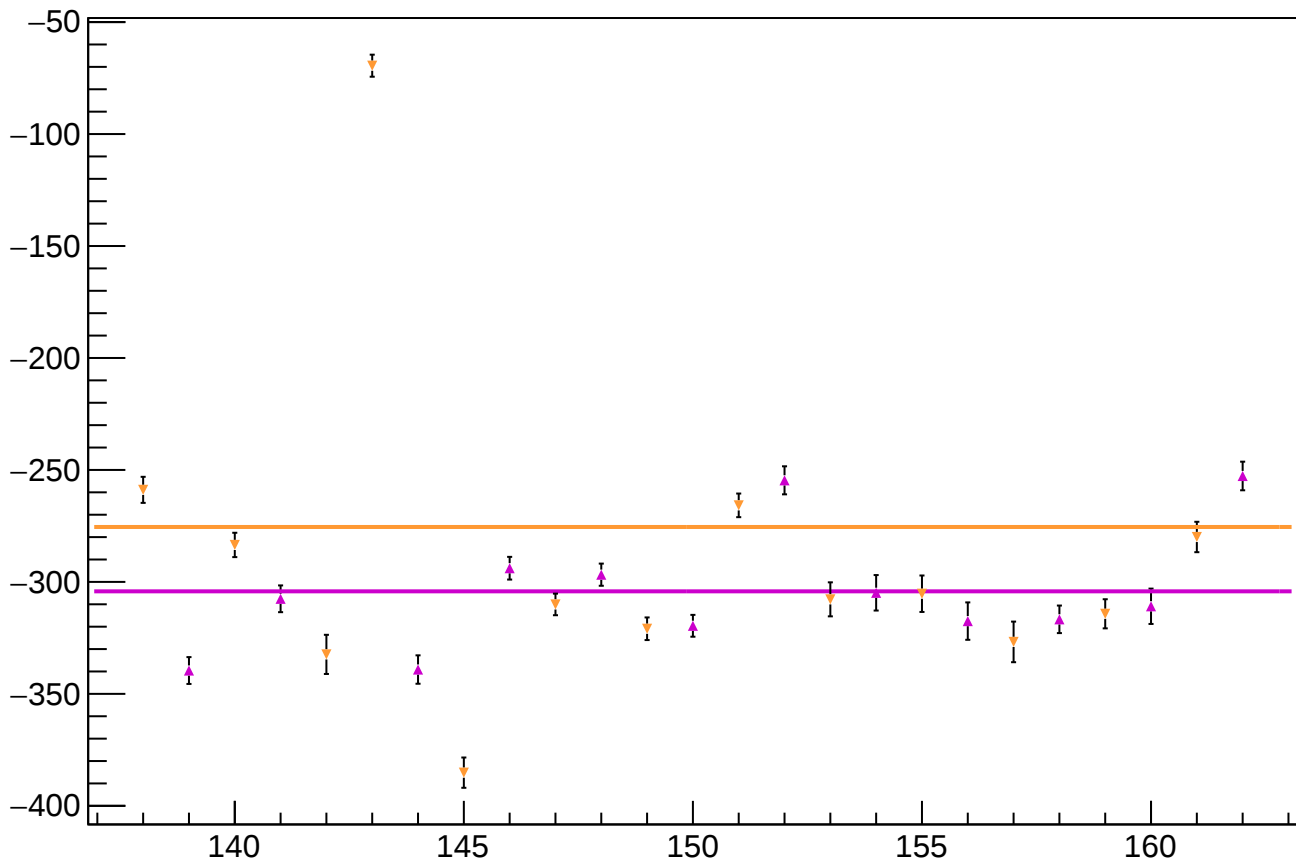
Right: 101.242+/-0.057  $\chi^2/\text{NDF}$ : 1099401.9/35

In: 121.695+/-0.045  $\chi^2/\text{NDF}$ : 195313.9/28

Out: 108.874+/-0.043  $\chi^2/\text{NDF}$ : 970038.9/31

All: 115.045+/-0.031  $\chi^2/\text{NDF}$ : 1207573.5/60

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -275.473 $\pm$ 1.696  $\chi^2/\text{NDF}$ :2301.7/12

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

Left In: -304.215 $\pm$ 1.753  $\chi^2/\text{NDF}$ :216.9/11

Left: -289.364 $\pm$ 1.219  $\chi^2/\text{NDF}$ : 2657.4/24

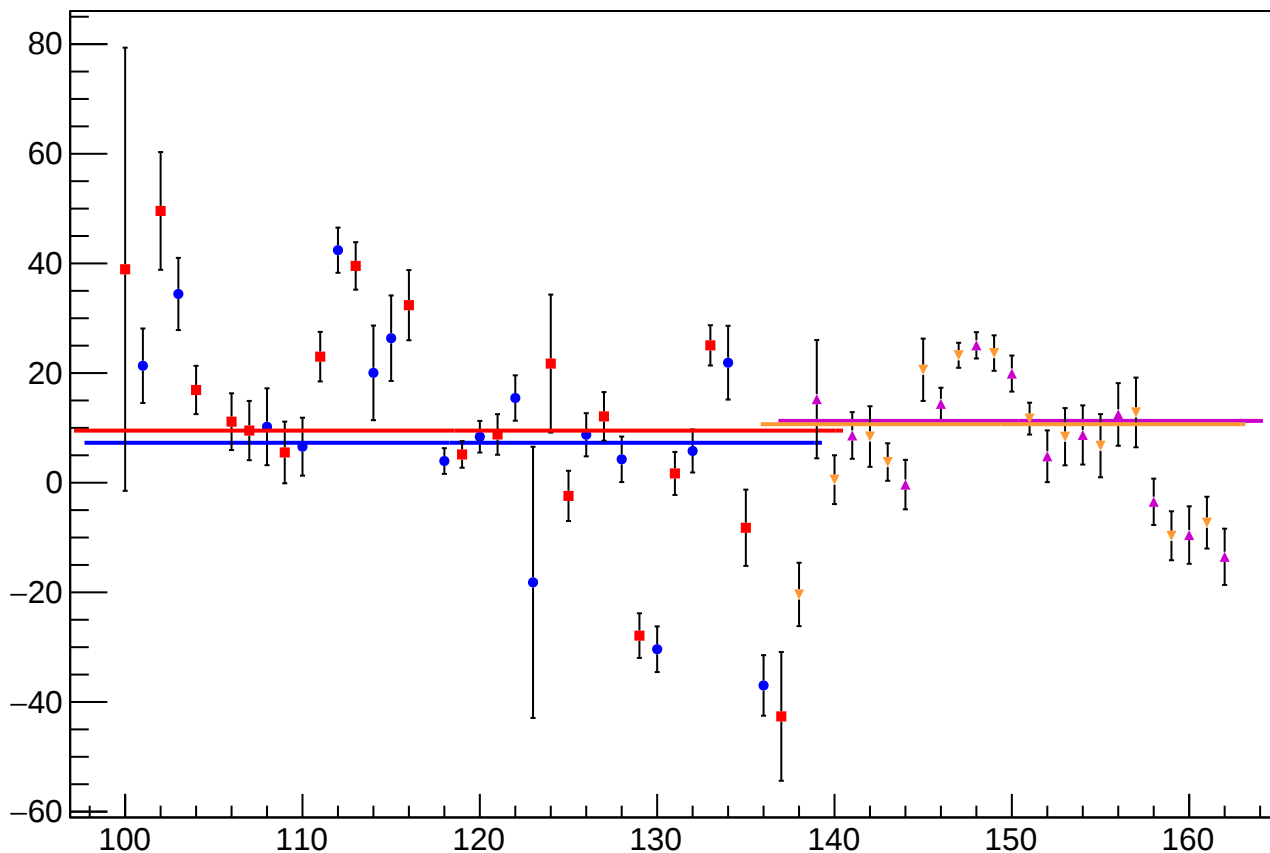
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -304.215 $\pm$ 1.753  $\chi^2/\text{NDF}$ :216.9/11

Out: -275.473 $\pm$ 1.696  $\chi^2/\text{NDF}$ :2301.7/12

All: -289.364 $\pm$ 1.219  $\chi^2/\text{NDF}$ : 2657.4/24

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.284 \pm 1.084$   $\chi^2/\text{NDF}$ : 261.0/16

Left Out:  $10.674 \pm 1.103$   $\chi^2/\text{NDF}$ : 123.8/12

Right Out:  $9.505 \pm 1.074$   $\chi^2/\text{NDF}$ : 231.5/18

Left In:  $11.277 \pm 1.166$   $\chi^2/\text{NDF}$ : 101.6/11

Left:  $10.958 \pm 0.801$   $\chi^2/\text{NDF}$ : 225.5/24

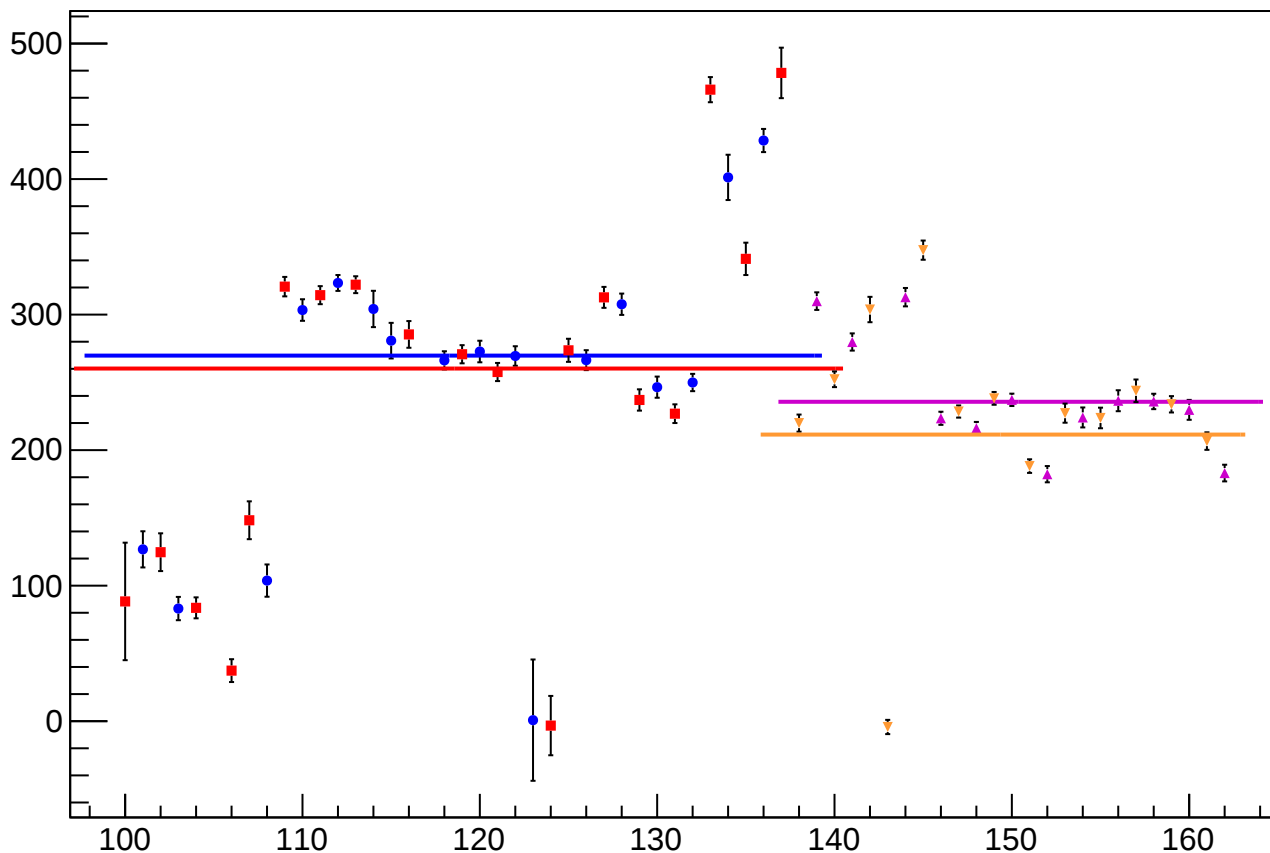
Right:  $8.404 \pm 0.763$   $\chi^2/\text{NDF}$ : 494.7/35

In:  $9.134 \pm 0.794$   $\chi^2/\text{NDF}$ : 368.9/28

Out:  $10.074 \pm 0.770$   $\chi^2/\text{NDF}$ : 355.9/31

All:  $9.618 \pm 0.553$   $\chi^2/\text{NDF}$ : 725.5/60

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 269.748 $\pm$ 2.071  $\chi^2$ /NDF: 1374.1/16

Left Out: 211.479 $\pm$ 1.668  $\chi^2$ /NDF:2307.7/12

Right Out: 260.206 $\pm$ 1.978  $\chi^2$ /NDF: 2541.6/18

Left In: 235.674 $\pm$ 1.699  $\chi^2$ /NDF:488.3/11

Left: 223.350 $\pm$ 1.190  $\chi^2$ /NDF: 2899.3/24

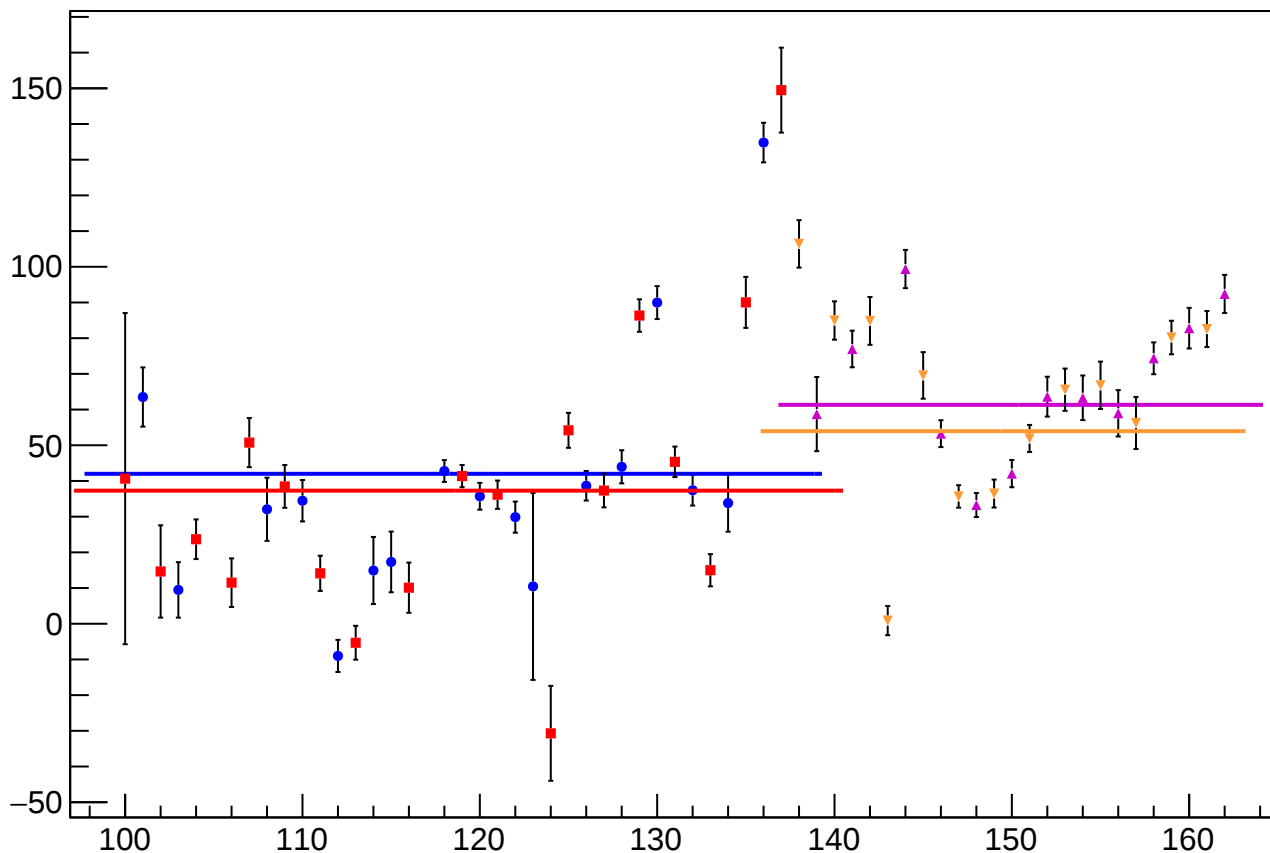
Right: 264.757 $\pm$ 1.430  $\chi^2$ /NDF: 3926.7/35

In: 249.379 $\pm$ 1.314  $\chi^2$ /NDF:2024.1/28

Out: 231.726 $\pm$ 1.275  $\chi^2$ /NDF:5204.0/31

All: 240.288 $\pm$ 0.915  $\chi^2$ /NDF: 7321.1/60

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 42.006 $\pm$ 1.255  $\chi^2$ /NDF: 575.6/16

Left Out: 53.948 $\pm$ 1.344  $\chi^2$ /NDF:416.1/12

Right Out: 37.284 $\pm$ 1.237  $\chi^2$ /NDF: 472.6/18

Left In: 61.319 $\pm$ 1.403  $\chi^2$ /NDF:217.0/11

Left: 57.475 $\pm$ 0.971  $\chi^2$ /NDF: 647.5/24

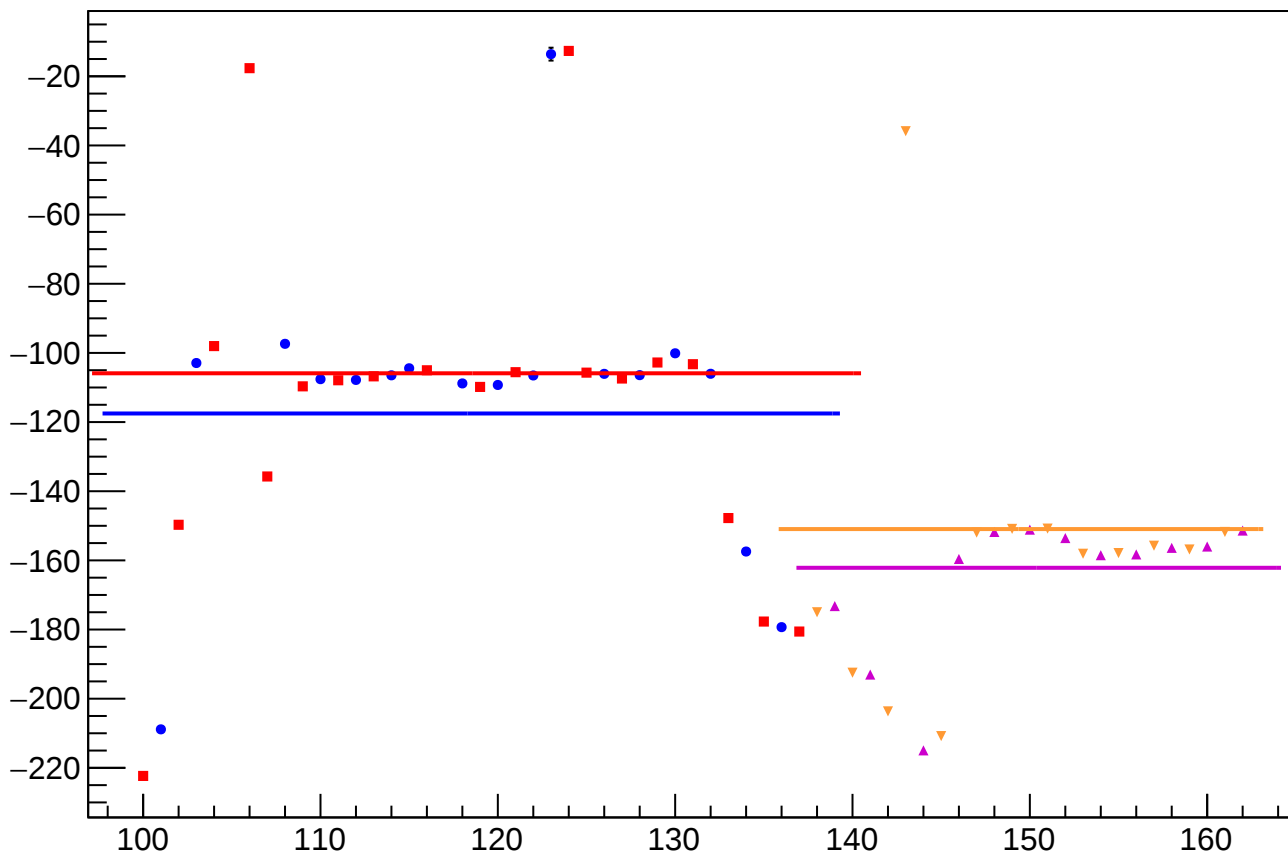
Right: 39.611 $\pm$ 0.881  $\chi^2$ /NDF: 1055.4/35

In: 50.594 $\pm$ 0.936  $\chi^2$ /NDF:897.8/28

Out: 44.927 $\pm$ 0.910  $\chi^2$ /NDF:971.9/31

All: 47.683 $\pm$ 0.652  $\chi^2$ /NDF: 1888.6/60

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -117.516+/-0.078  $\chi^2/\text{NDF}$ : 142016.6/16

Left Out: -150.945+/-0.067  $\chi^2/\text{NDF}$ : 403236.4/12

Right Out: -105.892+/-0.073  $\chi^2/\text{NDF}$ : 324304.4/18

Left In: -162.143+/-0.067  $\chi^2/\text{NDF}$ : 59452.7/11

Left: -156.512+/-0.048  $\chi^2/\text{NDF}$ : 476559.9/24

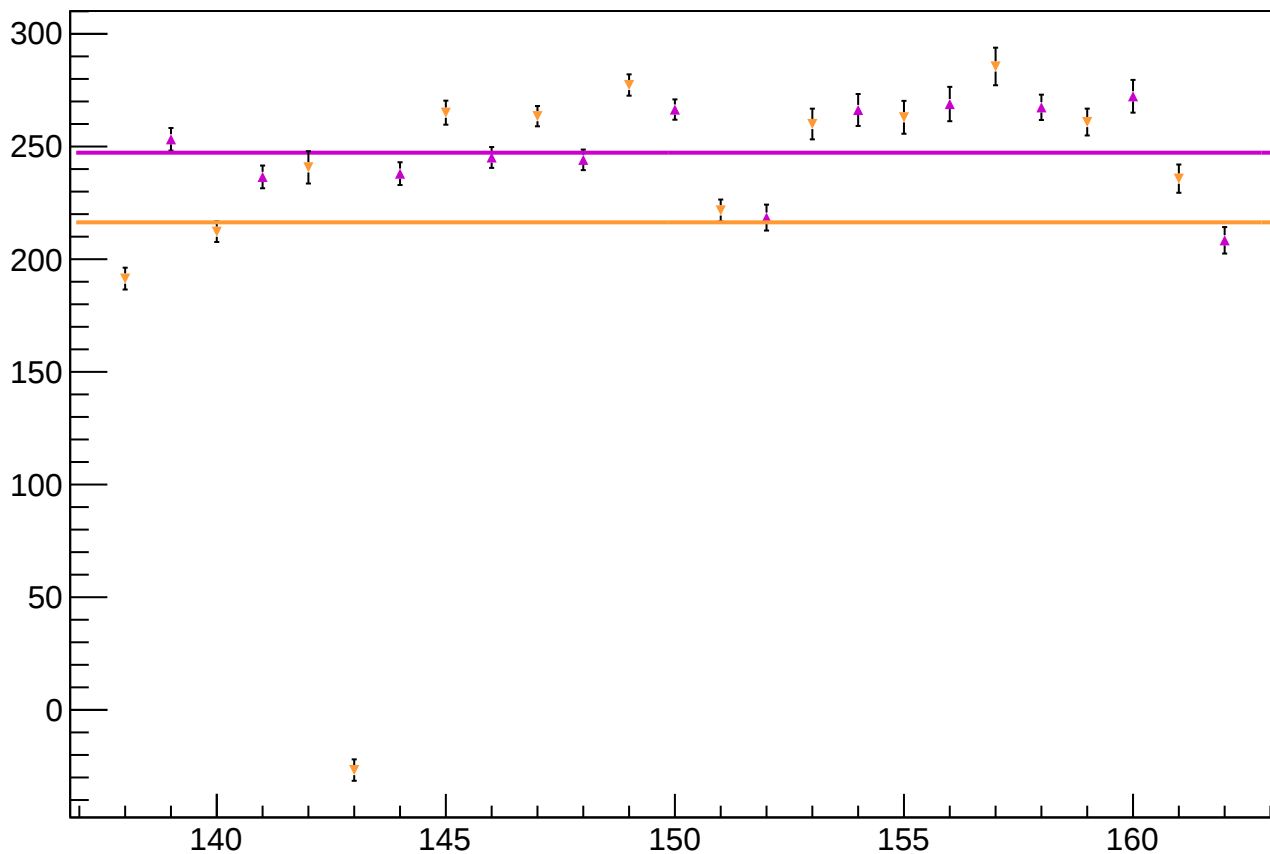
Right: -111.303+/-0.053  $\chi^2/\text{NDF}$ : 478188.8/35

In: -143.058+/-0.051  $\chi^2/\text{NDF}$ : 388817.7/28

Out: -130.272+/-0.049  $\chi^2/\text{NDF}$ : 934793.6/31

All: -136.449+/-0.035  $\chi^2/\text{NDF}$ : 1356088.8/60

reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 216.361+/-1.518  $\chi^2/\text{NDF}$ : 3228.7/12

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

Left In: 247.275+/-1.563  $\chi^2/\text{NDF}$ : 136.8/11

Left: 231.363+/-1.089  $\chi^2/\text{NDF}$ : 3566.8/24

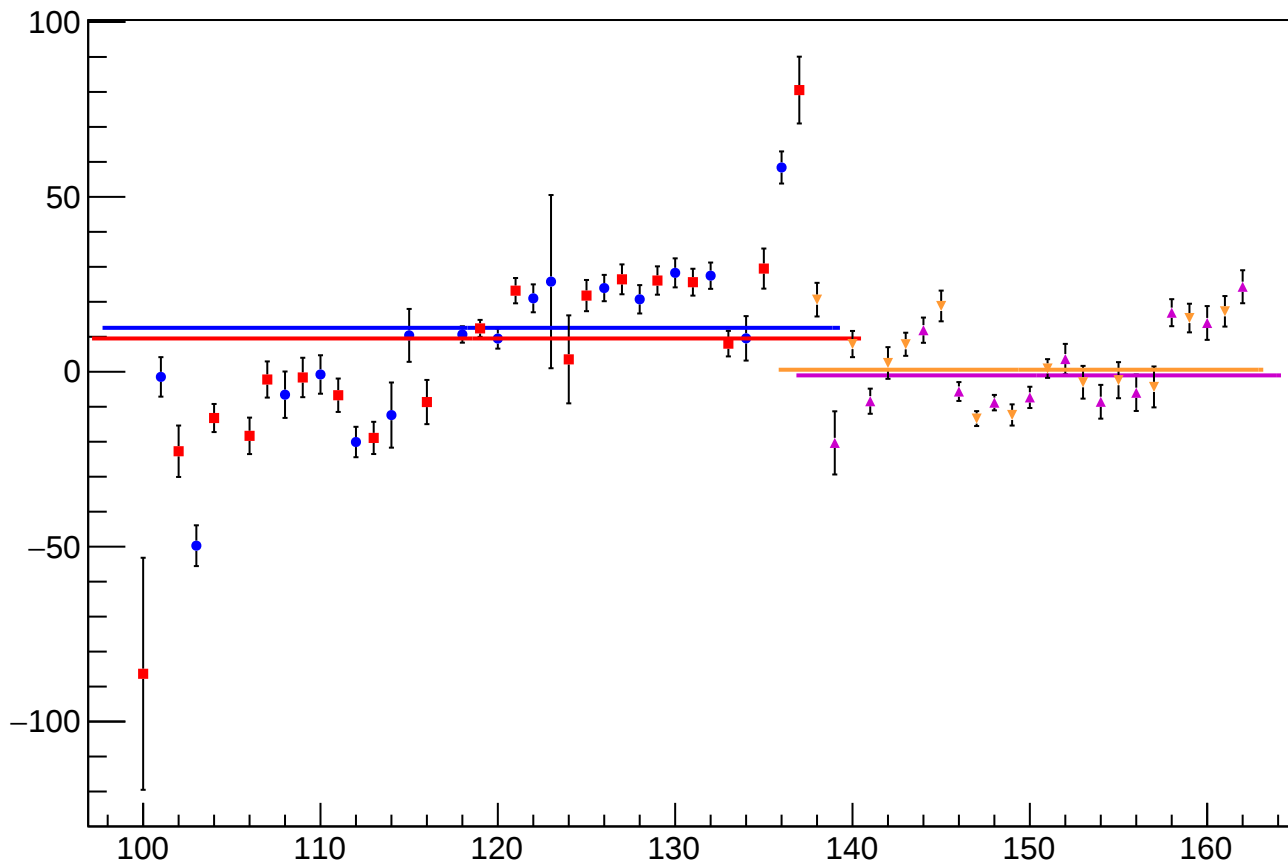
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 247.275+/-1.563  $\chi^2/\text{NDF}$ : 136.8/11

Out: 216.361+/-1.518  $\chi^2/\text{NDF}$ : 3228.7/12

All: 231.363+/-1.089  $\chi^2/\text{NDF}$ : 3566.8/24

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.561+/-1.056  $\chi^2/\text{NDF}$ : 347.7/16

Left Out: 0.585+/-1.000  $\chi^2/\text{NDF}$ :133.9/12

Right Out: 9.519+/-1.051  $\chi^2/\text{NDF}$ : 296.2/18

Left In: -1.034+/-1.051  $\chi^2/\text{NDF}$ :105.8/11

Left: -0.184+/-0.725  $\chi^2/\text{NDF}$ : 240.9/24

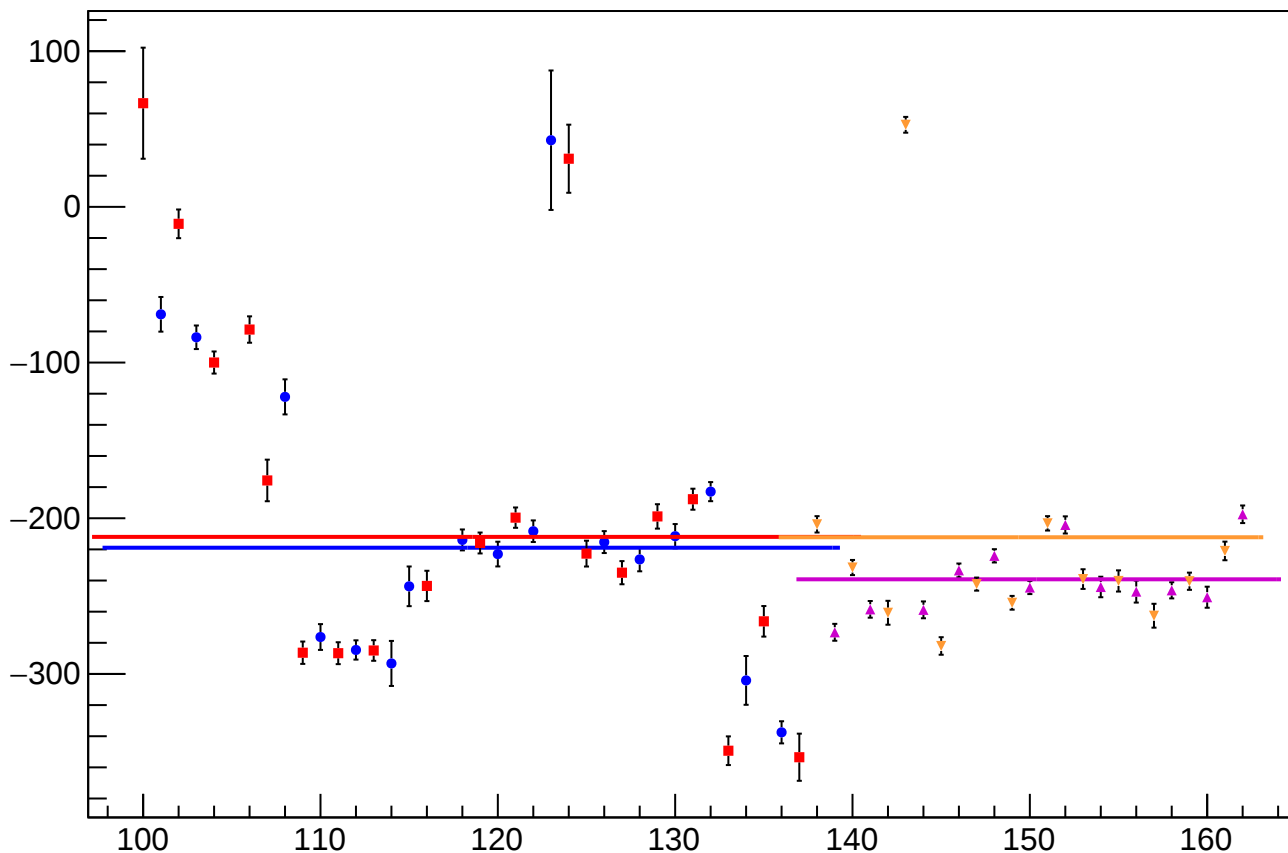
Right: 11.033+/-0.745  $\chi^2/\text{NDF}$ : 648.2/35

In: 5.736+/-0.745  $\chi^2/\text{NDF}$ :536.8/28

Out: 4.833+/-0.724  $\chi^2/\text{NDF}$ :468.0/31

All: 5.272+/-0.519  $\chi^2/\text{NDF}$ : 1005.6/60

reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-218.925 \pm 2.006$   $\chi^2/\text{NDF}$ : 1146.6/16

Left Out:  $-212.208 \pm 1.500$   $\chi^2/\text{NDF}$ : 3188.4/12

Right Out:  $-211.968 \pm 1.924$   $\chi^2/\text{NDF}$ : 1886.2/18

Left In:  $-239.218 \pm 1.522$   $\chi^2/\text{NDF}$ : 182.5/11

Left:  $-225.511 \pm 1.068$   $\chi^2/\text{NDF}$ : 3530.7/24

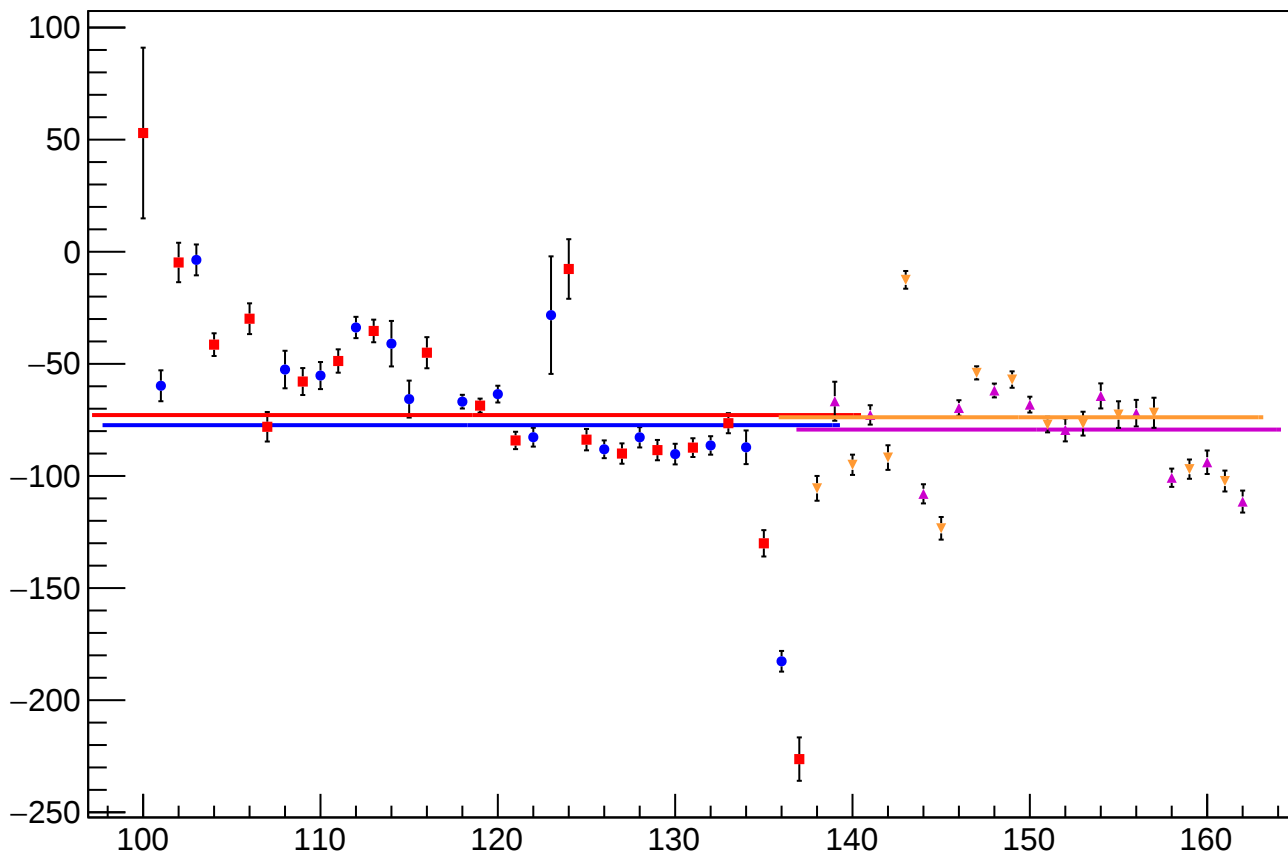
Right:  $-215.302 \pm 1.389$   $\chi^2/\text{NDF}$ : 3039.1/35

In:  $-231.803 \pm 1.213$   $\chi^2/\text{NDF}$ : 1394.1/28

Out:  $-212.117 \pm 1.183$   $\chi^2/\text{NDF}$ : 5074.5/31

All:  $-221.716 \pm 0.847$   $\chi^2/\text{NDF}$ : 6603.7/60

reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.342 \pm 1.219$   $\chi^2/\text{NDF}$ : 817.2/16

Left Out:  $-73.814 \pm 1.216$   $\chi^2/\text{NDF}$ : 536.2/12

Right Out:  $-72.836 \pm 1.209$   $\chi^2/\text{NDF}$ : 672.9/18

Left In:  $-79.311 \pm 1.263$   $\chi^2/\text{NDF}$ : 186.1/11

Left:  $-76.458 \pm 0.876$   $\chi^2/\text{NDF}$ : 732.1/24

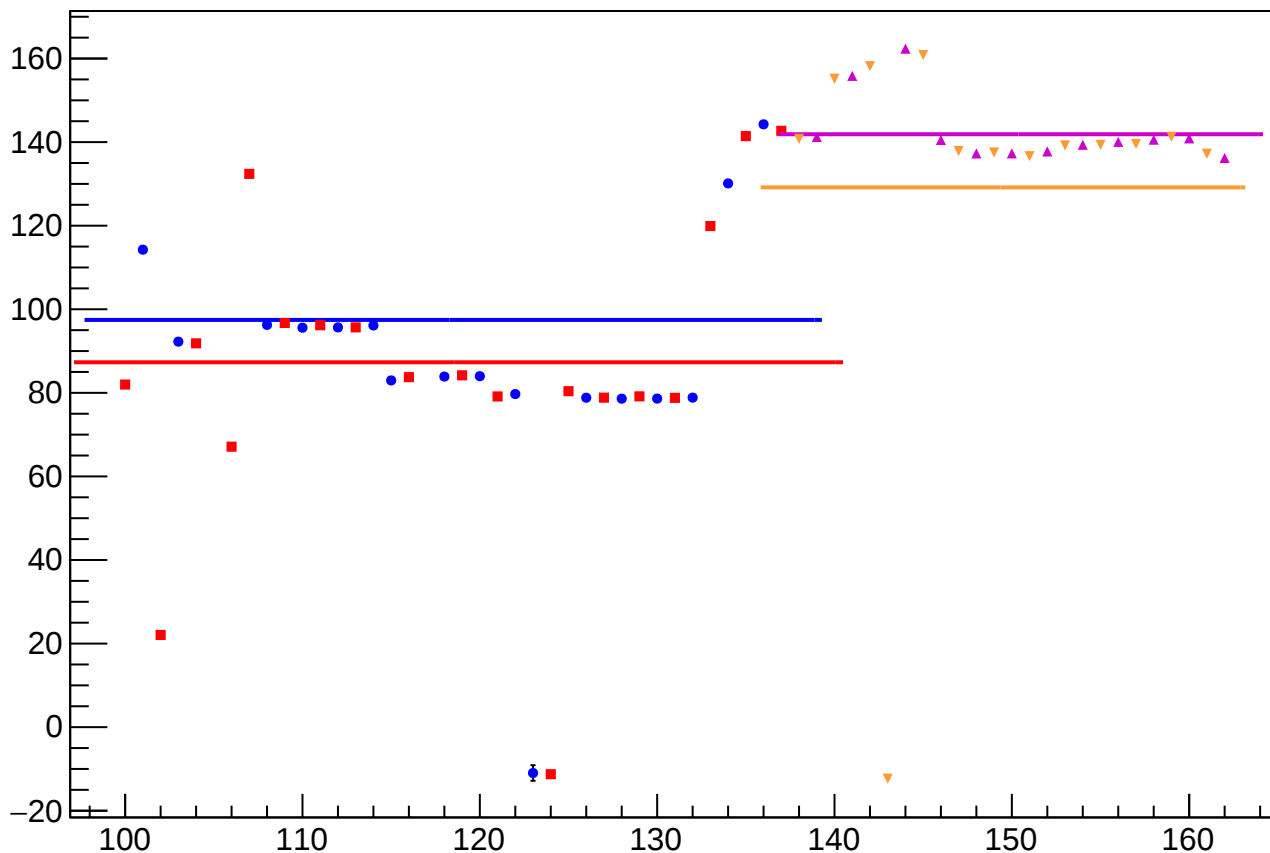
Right:  $-75.069 \pm 0.858$   $\chi^2/\text{NDF}$ : 1497.0/35

In:  $-78.292 \pm 0.877$   $\chi^2/\text{NDF}$ : 1004.6/28

Out:  $-73.322 \pm 0.857$   $\chi^2/\text{NDF}$ : 1209.4/31

All:  $-75.749 \pm 0.613$   $\chi^2/\text{NDF}$ : 2230.4/60

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 97.452 $\pm$ 0.073  $\chi^2$ /NDF: 94476.4/16

Left Out: 129.164 $\pm$ 0.060  $\chi^2$ /NDF: 548438.1/12

Right Out: 87.315 $\pm$ 0.068  $\chi^2$ /NDF: 221837.7/18

Left In: 141.882 $\pm$ 0.060  $\chi^2$ /NDF: 14232.4/11

Left: 135.505 $\pm$ 0.043  $\chi^2$ /NDF: 584918.9/24

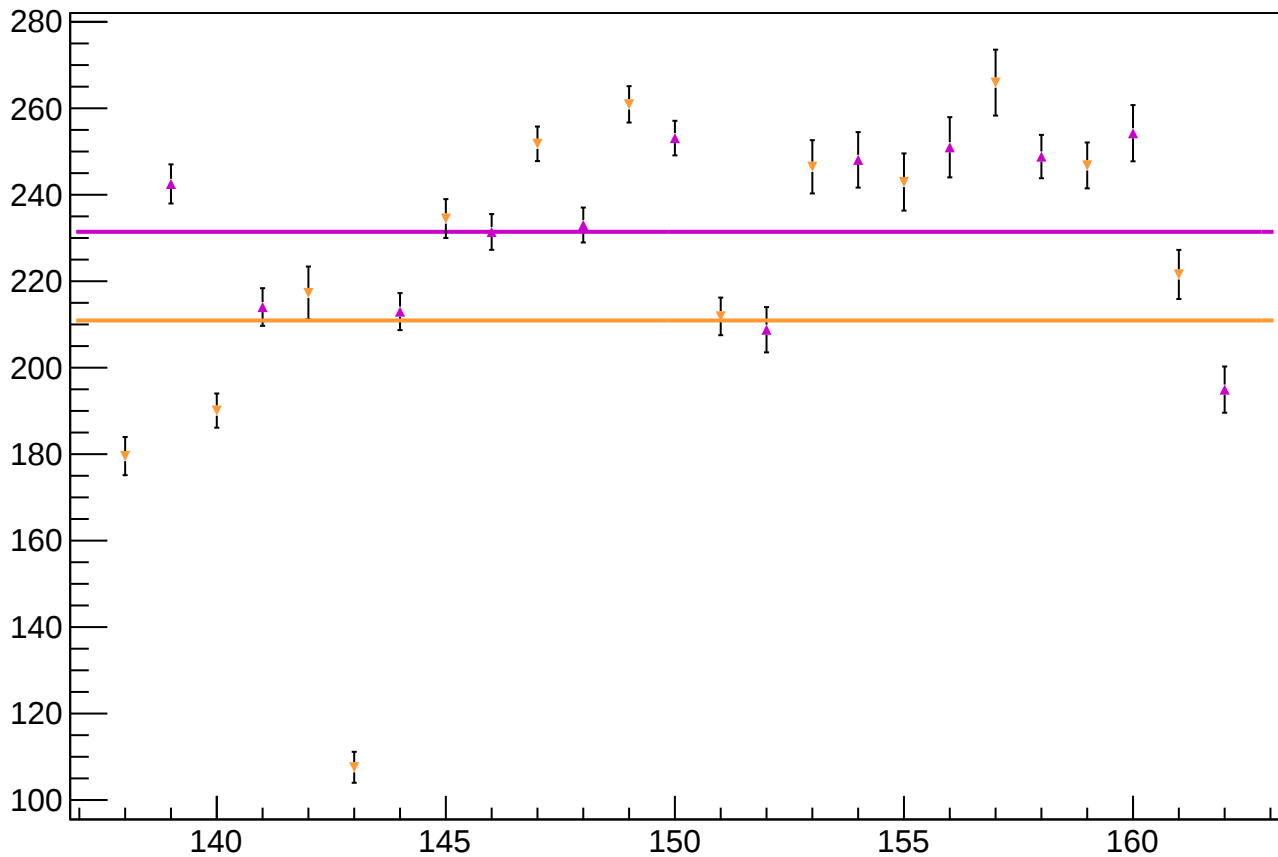
Right: 92.024 $\pm$ 0.050  $\chi^2$ /NDF: 326563.7/35

In: 123.913 $\pm$ 0.047  $\chi^2$ /NDF: 327735.3/28

Out: 110.847 $\pm$ 0.045  $\chi^2$ /NDF: 981748.0/31

All: 117.174 $\pm$ 0.032  $\chi^2$ /NDF: 1350046.8/60

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 210.926+/-1.320  $\chi^2/\text{NDF}$ :1341.7/12

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

Left In: 231.430+/-1.389  $\chi^2/\text{NDF}$ :174.3/11

Left: 220.651+/-0.957  $\chi^2/\text{NDF}$ : 1630.5/24

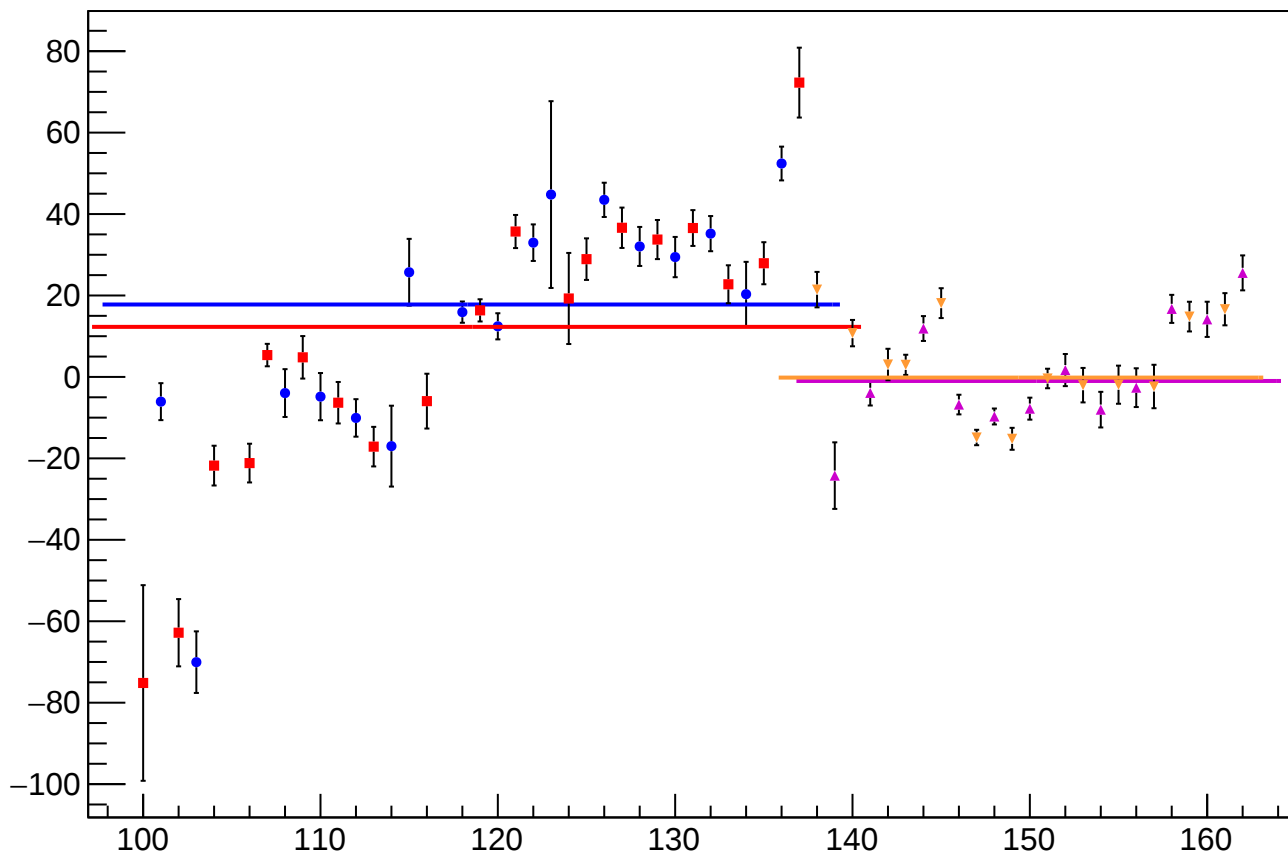
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 231.430+/-1.389  $\chi^2/\text{NDF}$ :174.3/11

Out: 210.926+/-1.320  $\chi^2/\text{NDF}$ :1341.7/12

All: 220.651+/-0.957  $\chi^2/\text{NDF}$ : 1630.5/24

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 17.786 $\pm$ 1.146  $\chi^2$ /NDF: 395.1/16

Left Out: -0.164 $\pm$ 0.871  $\chi^2$ /NDF:190.0/12

Right Out: 12.294 $\pm$ 1.086  $\chi^2$ /NDF: 443.7/18

Left In: -0.992 $\pm$ 0.933  $\chi^2$ /NDF:138.8/11

Left: -0.550 $\pm$ 0.637  $\chi^2$ /NDF: 329.3/24

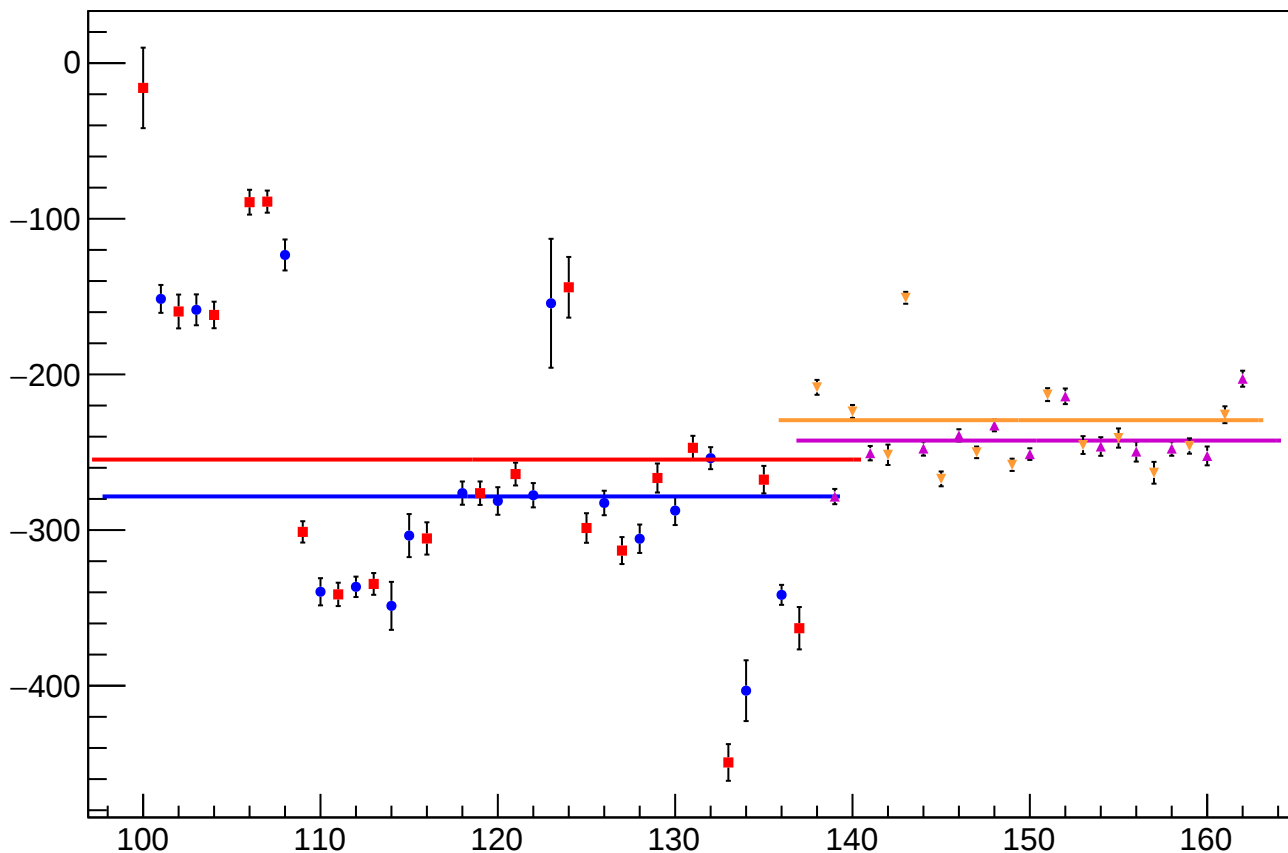
Right: 14.891 $\pm$ 0.788  $\chi^2$ /NDF: 850.9/35

In: 6.489 $\pm$ 0.724  $\chi^2$ /NDF:695.4/28

Out: 4.711 $\pm$ 0.679  $\chi^2$ /NDF:713.9/31

All: 5.544 $\pm$ 0.495  $\chi^2$ /NDF: 1412.5/60

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -278.393+/-2.168  $\chi^2/\text{NDF}$ : 910.5/16

Left Out: -229.408+/-1.310  $\chi^2/\text{NDF}$ : 663.4/12

Right Out: -254.703+/-2.020  $\chi^2/\text{NDF}$ : 2038.5/18

Left In: -242.502+/-1.355  $\chi^2/\text{NDF}$ : 168.2/11

Left: -235.732+/-0.942  $\chi^2/\text{NDF}$ : 879.9/24

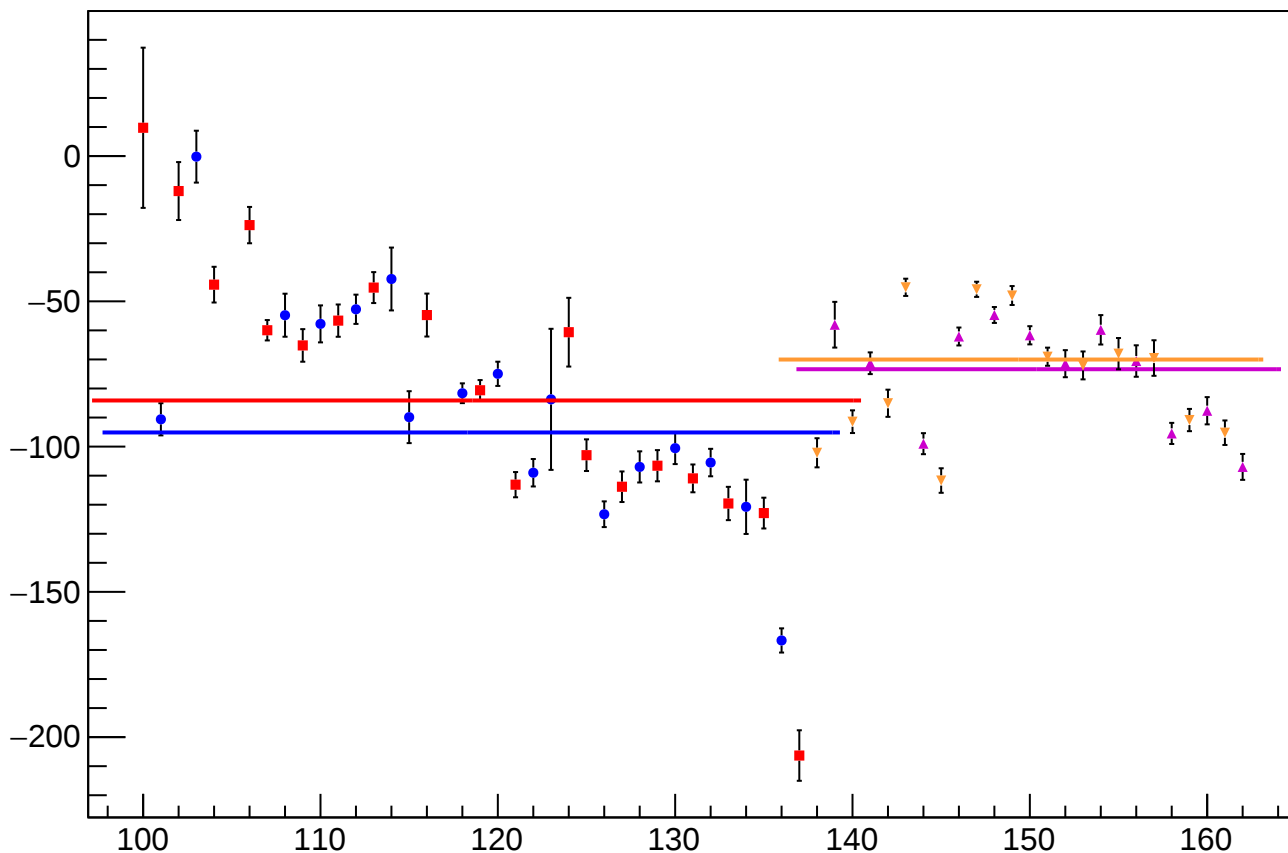
Right: -265.715+/-1.478  $\chi^2/\text{NDF}$ : 3013.0/35

In: -252.586+/-1.149  $\chi^2/\text{NDF}$ : 1275.9/28

Out: -236.893+/-1.099  $\chi^2/\text{NDF}$ : 2812.3/31

All: -244.390+/-0.794  $\chi^2/\text{NDF}$ : 4185.7/60

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-95.135 \pm 1.322$   $\chi^2/\text{NDF}$ : 674.9/16

Left Out:  $-70.032 \pm 1.058$   $\chi^2/\text{NDF}$ : 445.8/12

Right Out:  $-84.124 \pm 1.259$   $\chi^2/\text{NDF}$ : 782.9/18

Left In:  $-73.368 \pm 1.122$   $\chi^2/\text{NDF}$ : 238.6/11

Left:  $-71.603 \pm 0.770$   $\chi^2/\text{NDF}$ : 689.1/24

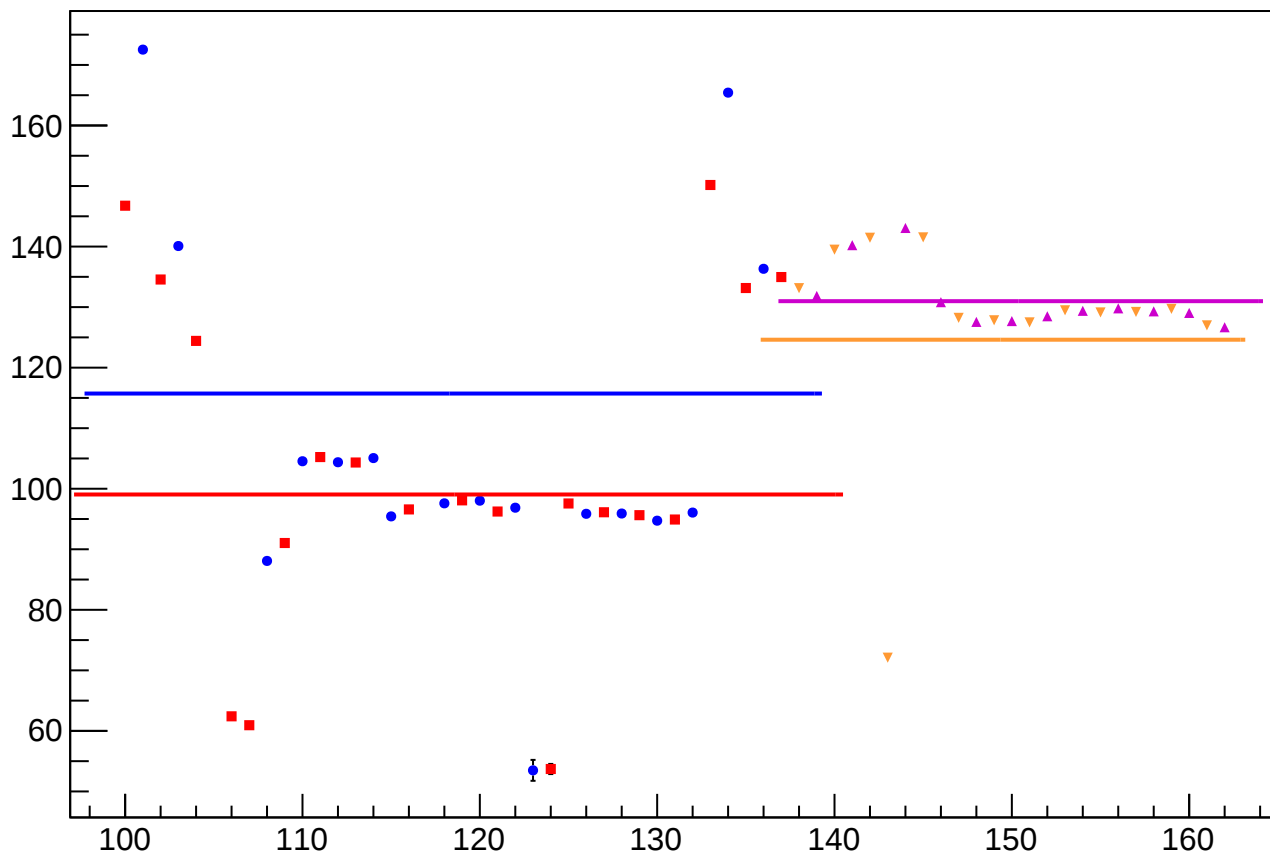
Right:  $-89.357 \pm 0.912$   $\chi^2/\text{NDF}$ : 1494.2/35

In:  $-82.474 \pm 0.855$   $\chi^2/\text{NDF}$ : 1071.1/28

Out:  $-75.868 \pm 0.810$   $\chi^2/\text{NDF}$ : 1302.1/31

All:  $-78.991 \pm 0.588$   $\chi^2/\text{NDF}$ : 2404.7/60

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 115.724 $\pm$ 0.078  $\chi^2$ /NDF: 106388.1/16

Left Out: 124.615 $\pm$ 0.053  $\chi^2$ /NDF:141384.7/12

Right Out: 99.049 $\pm$ 0.069  $\chi^2$ /NDF: 173463.3/18

Left In: 130.981 $\pm$ 0.054  $\chi^2$ /NDF:7865.2/11

Left: 127.727 $\pm$ 0.038  $\chi^2$ /NDF: 156391.8/24

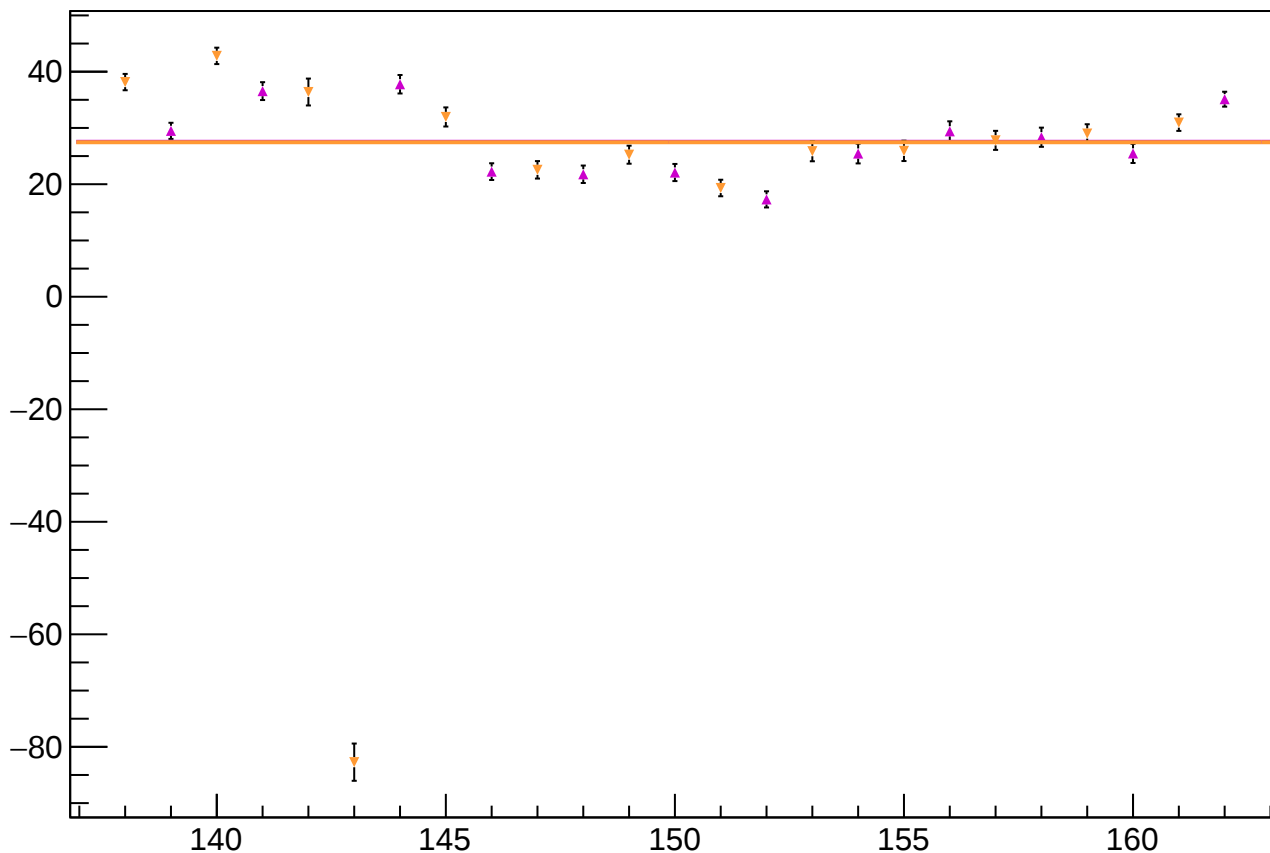
Right: 106.312 $\pm$ 0.051  $\chi^2$ /NDF: 305658.4/35

In: 126.054 $\pm$ 0.044  $\chi^2$ /NDF:140172.8/28

Out: 115.117 $\pm$ 0.042  $\chi^2$ /NDF:402383.3/31

All: 120.260 $\pm$ 0.030  $\chi^2$ /NDF: 574823.4/60

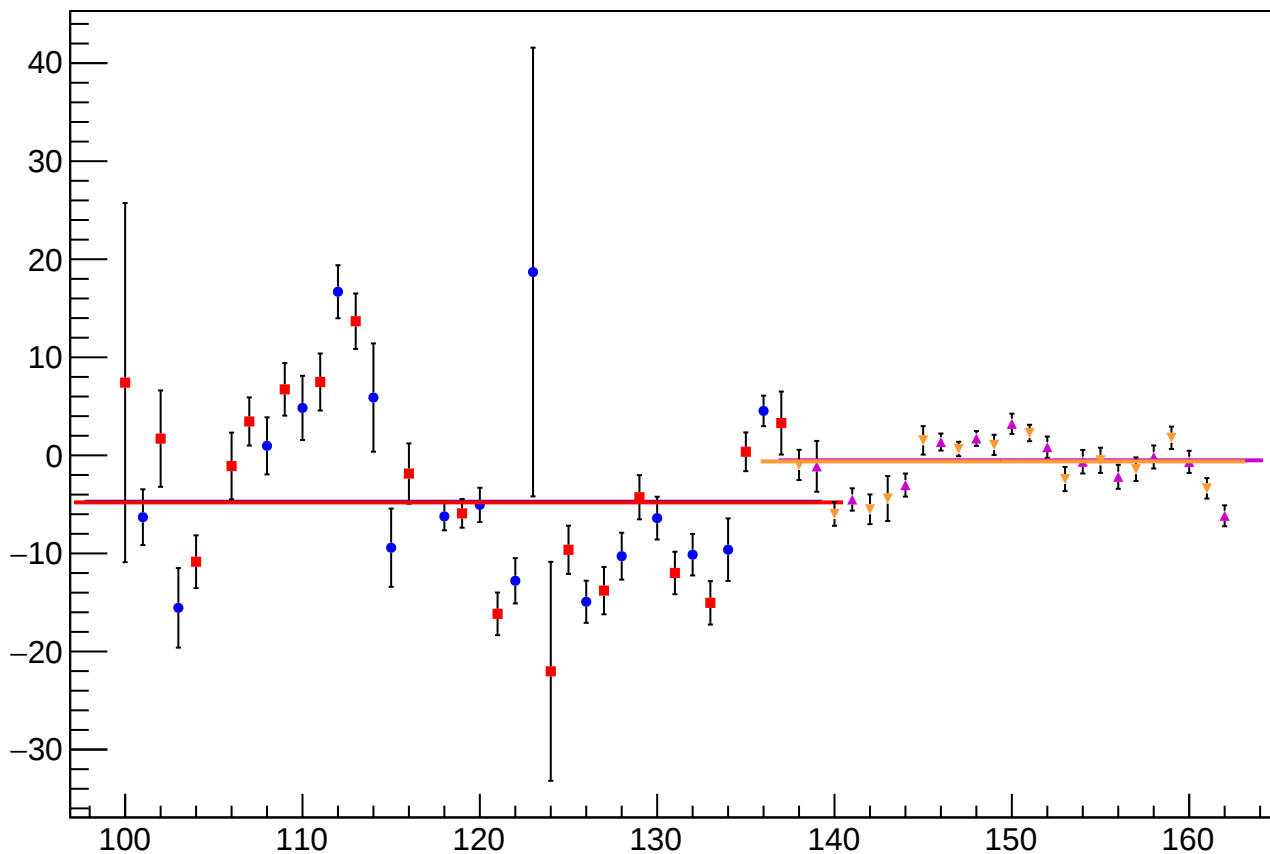
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 27.462+/-0.465     $\chi^2/\text{NDF}$ :1344.1/12  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 27.537+/-0.450     $\chi^2/\text{NDF}$ :200.0/11

Left: 27.501+/-0.323     $\chi^2/\text{NDF}$ : 1544.1/24  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 27.537+/-0.450     $\chi^2/\text{NDF}$ :200.0/11  
 Out: 27.462+/-0.465     $\chi^2/\text{NDF}$ :1344.1/12  
 All: 27.501+/-0.323     $\chi^2/\text{NDF}$ : 1544.1/24

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-4.730 \pm 0.580$   $\chi^2/\text{NDF}$ : 174.8/16

Left Out:  $-0.615 \pm 0.316$   $\chi^2/\text{NDF}$ : 66.6/12

Right Out:  $-4.793 \pm 0.586$   $\chi^2/\text{NDF}$ : 193.5/18

Left In:  $-0.508 \pm 0.312$   $\chi^2/\text{NDF}$ : 75.1/11

Left:  $-0.561 \pm 0.222$   $\chi^2/\text{NDF}$ : 141.8/24

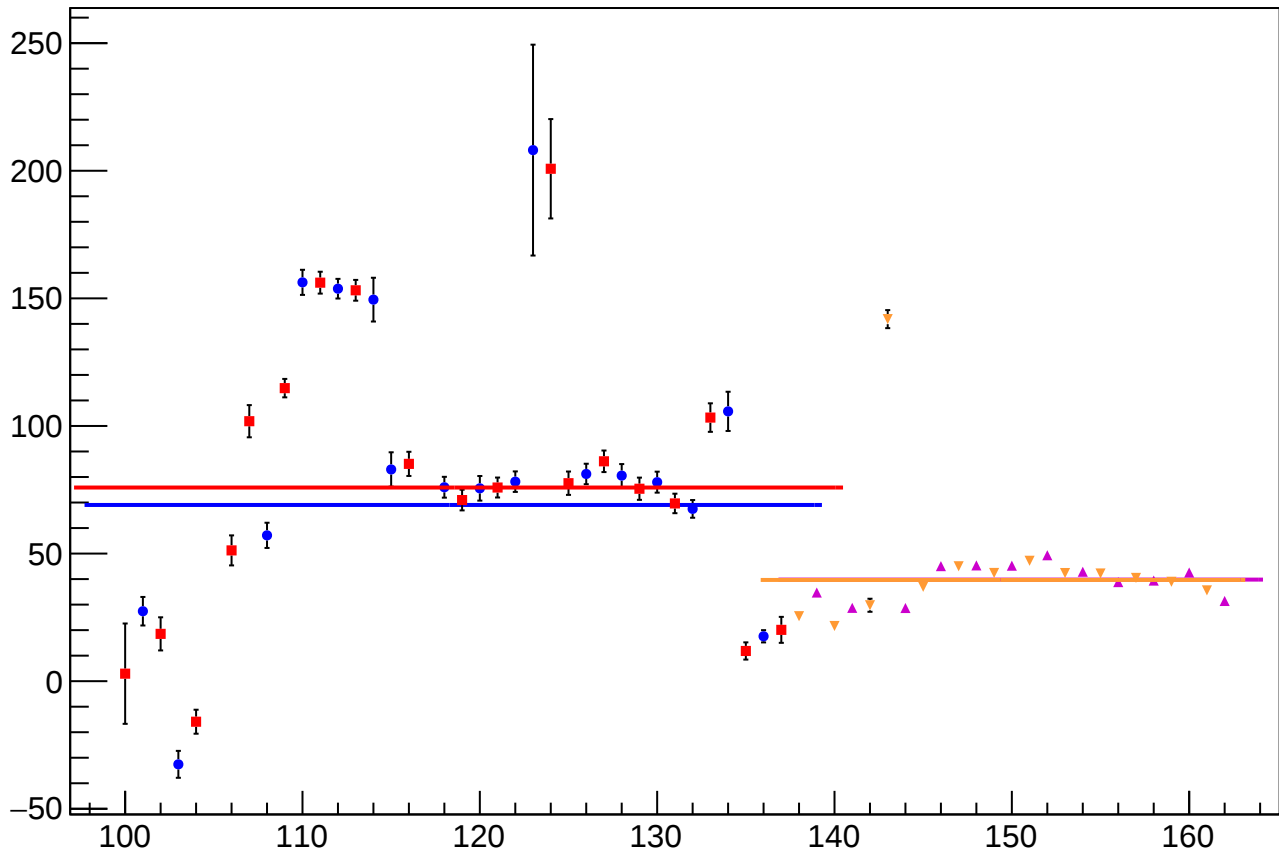
Right:  $-4.761 \pm 0.412$   $\chi^2/\text{NDF}$ : 368.3/35

In:  $-1.457 \pm 0.275$   $\chi^2/\text{NDF}$ : 291.1/28

Out:  $-1.555 \pm 0.278$   $\chi^2/\text{NDF}$ : 299.5/31

All:  $-1.506 \pm 0.195$   $\chi^2/\text{NDF}$ : 590.6/60

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 69.048+/-1.077  $\chi^2/\text{NDF}$ : 1847.9/16

Left Out: 39.666+/-0.454  $\chi^2/\text{NDF}$ :1129.2/12

Right Out: 75.878+/-1.069  $\chi^2/\text{NDF}$ : 1895.0/18

Left In: 39.800+/-0.437  $\chi^2/\text{NDF}$ :235.1/11

Left: 39.736+/-0.315  $\chi^2/\text{NDF}$ : 1364.3/24

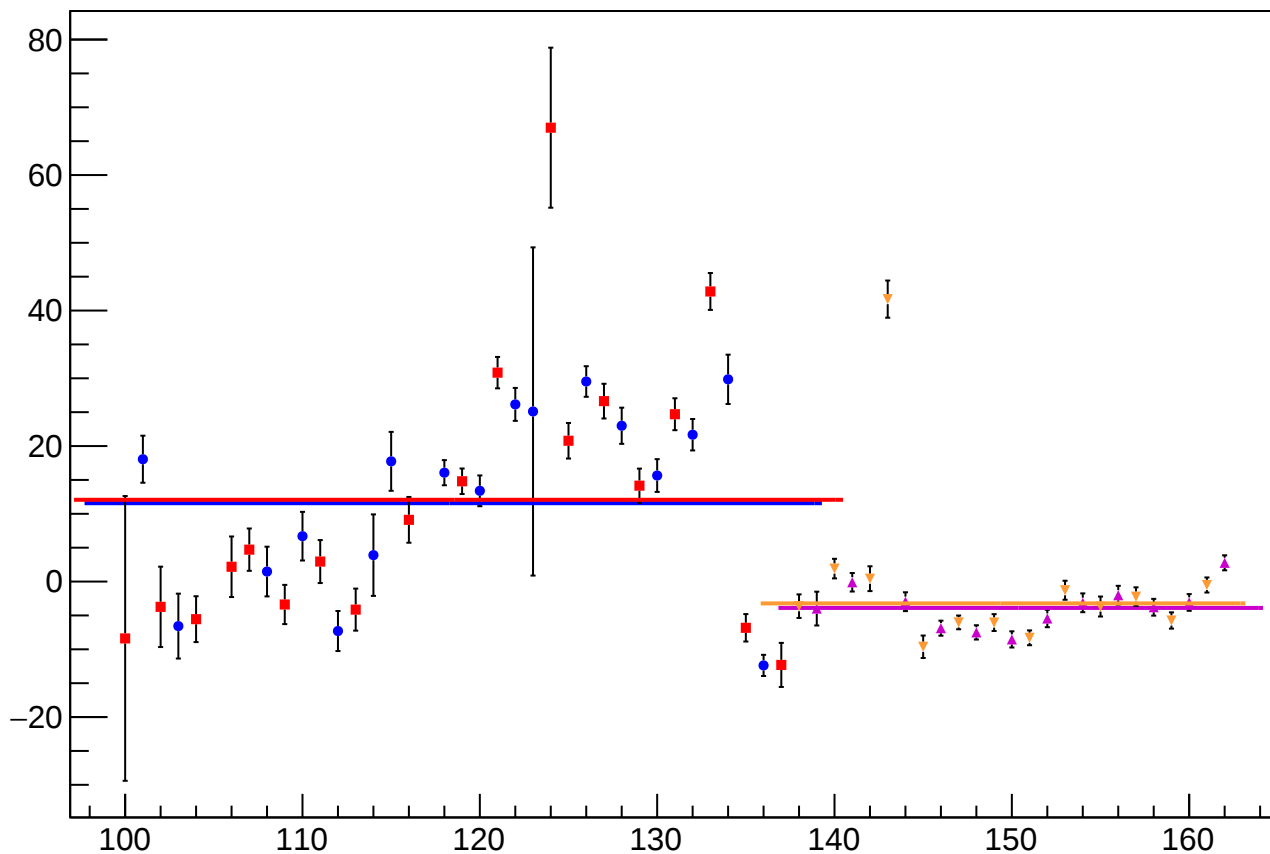
Right: 72.486+/-0.759  $\chi^2/\text{NDF}$ : 3763.1/35

In: 43.932+/-0.405  $\chi^2/\text{NDF}$ :2716.7/28

Out: 45.203+/-0.418  $\chi^2/\text{NDF}$ :3995.3/31

All: 44.547+/-0.291  $\chi^2/\text{NDF}$ : 6716.8/60

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $11.565 \pm 0.658$   $\chi^2/\text{NDF}: 478.2/16$

Left Out:  $-3.223 \pm 0.377$   $\chi^2/\text{NDF}: 346.9/12$

Right Out:  $12.071 \pm 0.665$   $\chi^2/\text{NDF}: 543.3/18$

Left In:  $-3.891 \pm 0.368$   $\chi^2/\text{NDF}: 82.4/11$

Left:  $-3.565 \pm 0.263$   $\chi^2/\text{NDF}: 430.9/24$

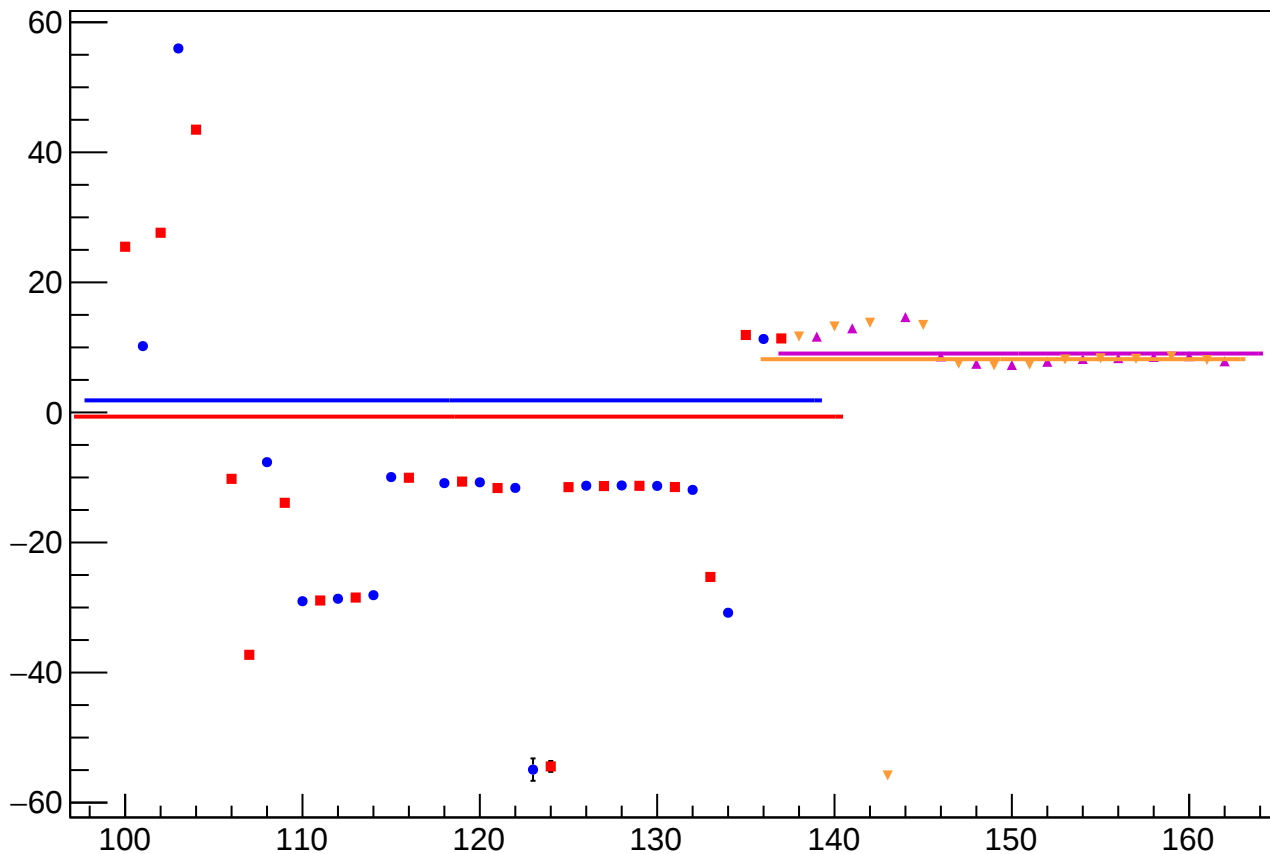
Right:  $11.816 \pm 0.468$   $\chi^2/\text{NDF}: 1021.8/35$

In:  $-0.214 \pm 0.321$   $\chi^2/\text{NDF}: 980.8/28$

Out:  $0.494 \pm 0.328$   $\chi^2/\text{NDF}: 1291.2/31$

All:  $0.133 \pm 0.229$   $\chi^2/\text{NDF}: 2274.4/60$

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.855 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 359414.1/16

Left Out: 8.186 $\pm$ 0.018  $\chi^2/\text{NDF}$ :222510.2/12

Right Out: -0.644 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 361625.7/18

Left In: 9.058 $\pm$ 0.017  $\chi^2/\text{NDF}$ :13980.8/11

Left: 8.640 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 237751.9/24

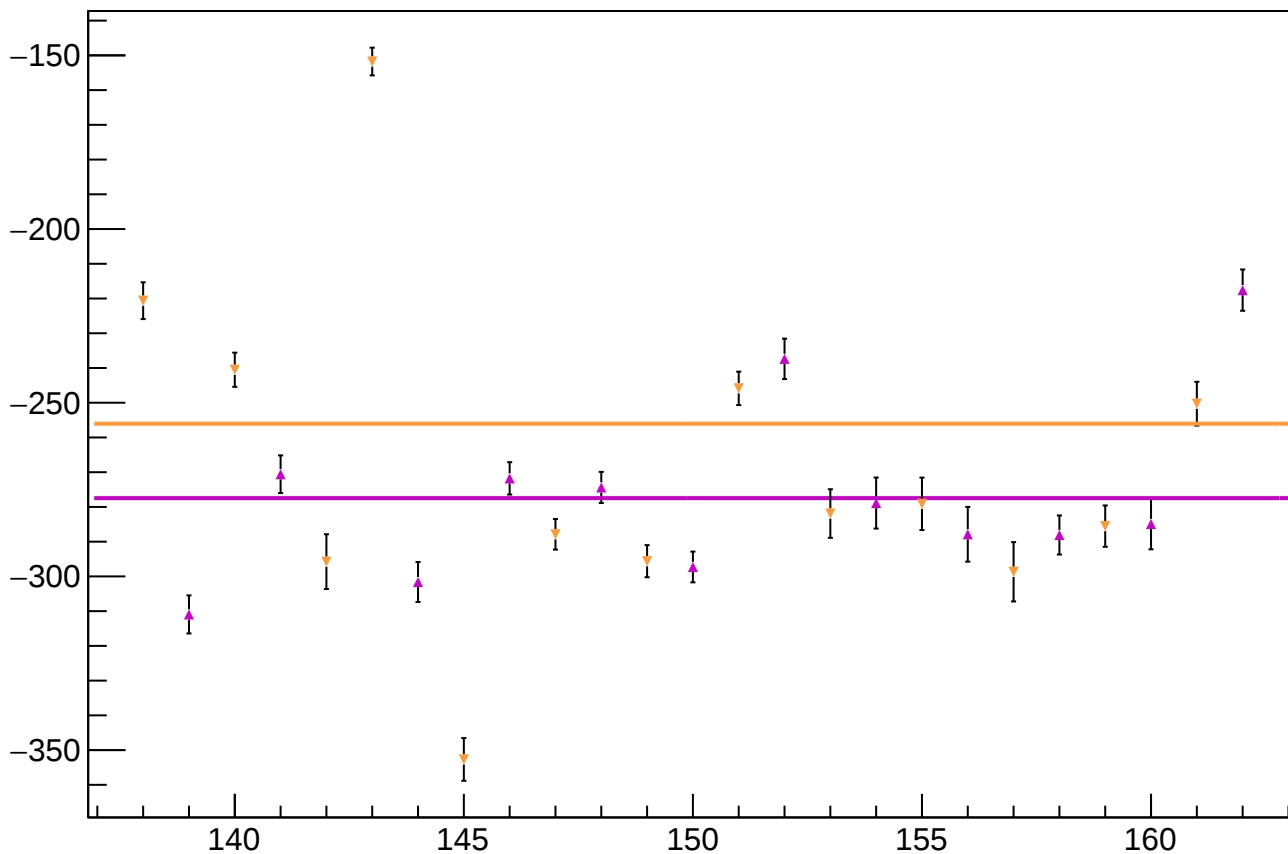
Right: 0.608 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 723318.4/35

In: 7.803 $\pm$ 0.015  $\chi^2/\text{NDF}$ :404691.0/28

Out: 6.544 $\pm$ 0.016  $\chi^2/\text{NDF}$ :630374.2/31

All: 7.195 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 1038274.5/60

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -256.031+/-1.526  $\chi^2/\text{NDF}$ :1213.1/12

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

Left In: -277.458+/-1.607  $\chi^2/\text{NDF}$ :233.9/11

Left: -266.194+/-1.107  $\chi^2/\text{NDF}$ : 1540.4/24

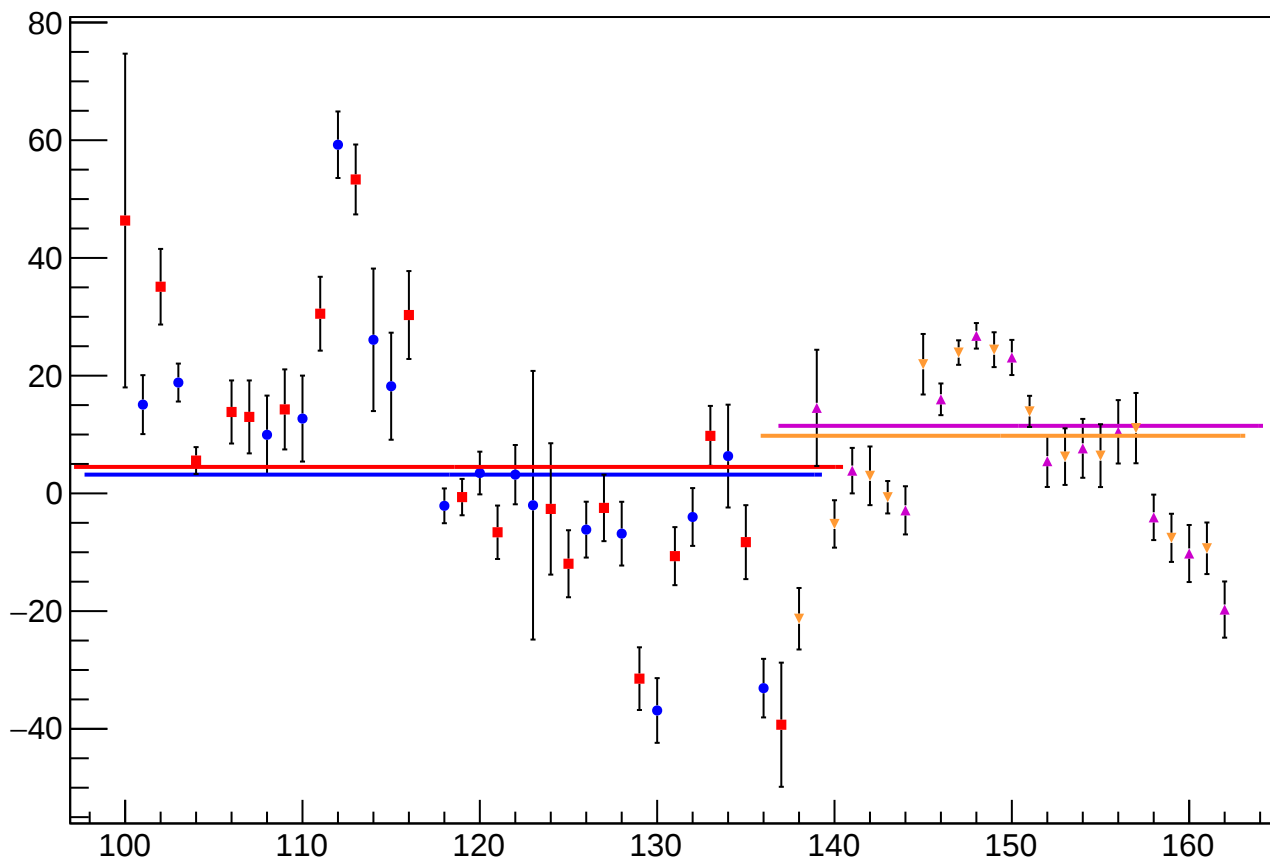
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -277.458+/-1.607  $\chi^2/\text{NDF}$ :233.9/11

Out: -256.031+/-1.526  $\chi^2/\text{NDF}$ :1213.1/12

All: -266.194+/-1.107  $\chi^2/\text{NDF}$ : 1540.4/24

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.188 \pm 1.225$   $\chi^2/\text{NDF}$ : 255.6/16

Left Out:  $9.789 \pm 0.993$   $\chi^2/\text{NDF}$ : 182.0/12

Right Out:  $4.497 \pm 1.160$   $\chi^2/\text{NDF}$ : 225.4/18

Left In:  $11.478 \pm 1.066$   $\chi^2/\text{NDF}$ : 165.3/11

Left:  $10.573 \pm 0.727$   $\chi^2/\text{NDF}$ : 348.7/24

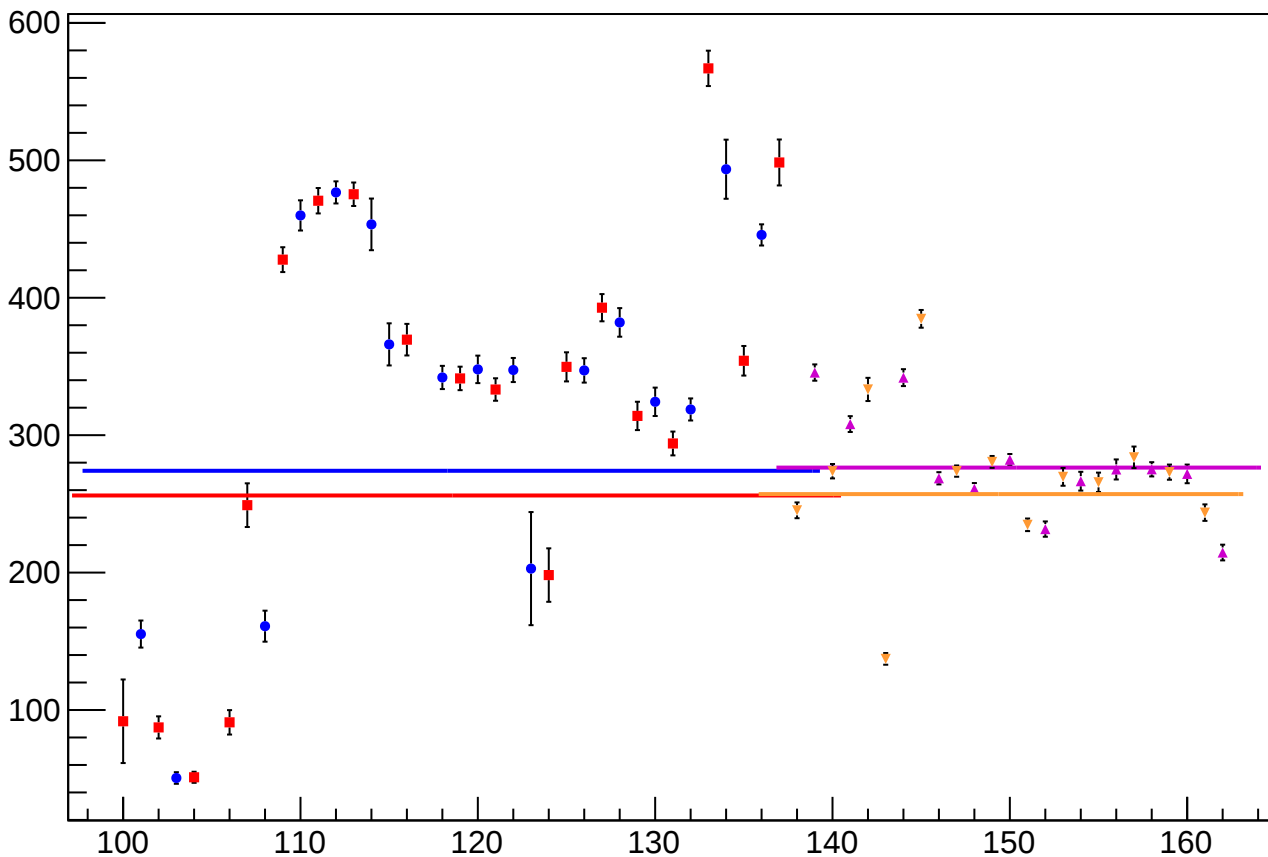
Right:  $3.879 \pm 0.842$   $\chi^2/\text{NDF}$ : 481.7/35

In:  $7.905 \pm 0.804$   $\chi^2/\text{NDF}$ : 447.0/28

Out:  $7.550 \pm 0.754$   $\chi^2/\text{NDF}$ : 419.4/31

All:  $7.716 \pm 0.550$   $\chi^2/\text{NDF}$ : 866.6/60

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 274.079+/-2.191  $\chi^2/\text{NDF}$ : 5112.0/16

Left Out: 257.116+/-1.505  $\chi^2/\text{NDF}$ :1379.1/12

Right Out: 256.109+/-2.080  $\chi^2/\text{NDF}$ : 6444.1/18

Left In: 276.403+/-1.558  $\chi^2/\text{NDF}$ :481.5/11

Left: 266.431+/-1.083  $\chi^2/\text{NDF}$ : 1939.8/24

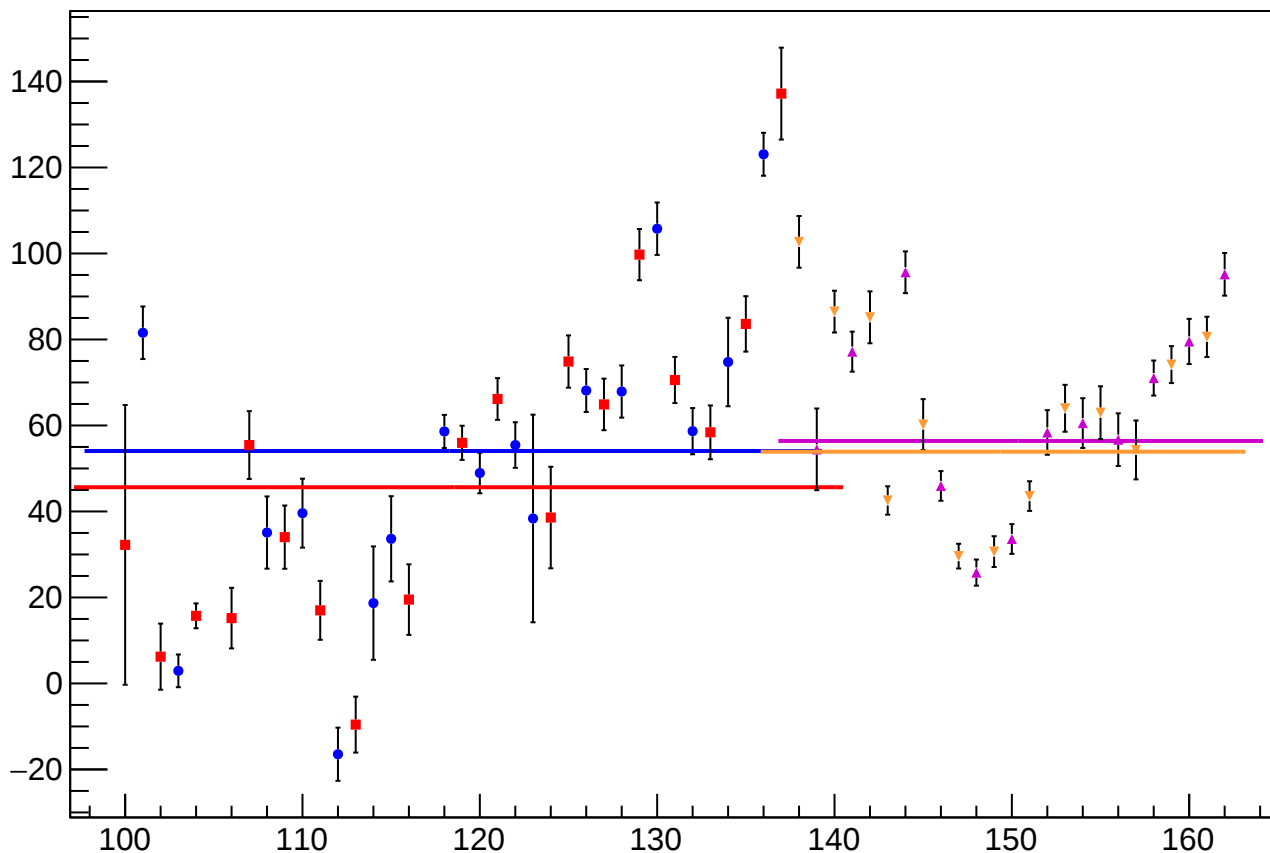
Right: 264.628+/-1.509  $\chi^2/\text{NDF}$ : 11591.4/35

In: 275.623+/-1.270  $\chi^2/\text{NDF}$ :5594.2/28

Out: 256.770+/-1.220  $\chi^2/\text{NDF}$ :7823.3/31

All: 265.818+/-0.880  $\chi^2/\text{NDF}$ : 13532.1/60

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 54.065 $\pm$ 1.421  $\chi^2$ /NDF: 634.4/16

Left Out: 53.903 $\pm$ 1.210  $\chi^2$ /NDF:333.6/12

Right Out: 45.637 $\pm$ 1.359  $\chi^2$ /NDF: 530.8/18

Left In: 56.398 $\pm$ 1.284  $\chi^2$ /NDF:333.3/11

Left: 55.076 $\pm$ 0.881  $\chi^2$ /NDF: 668.9/24

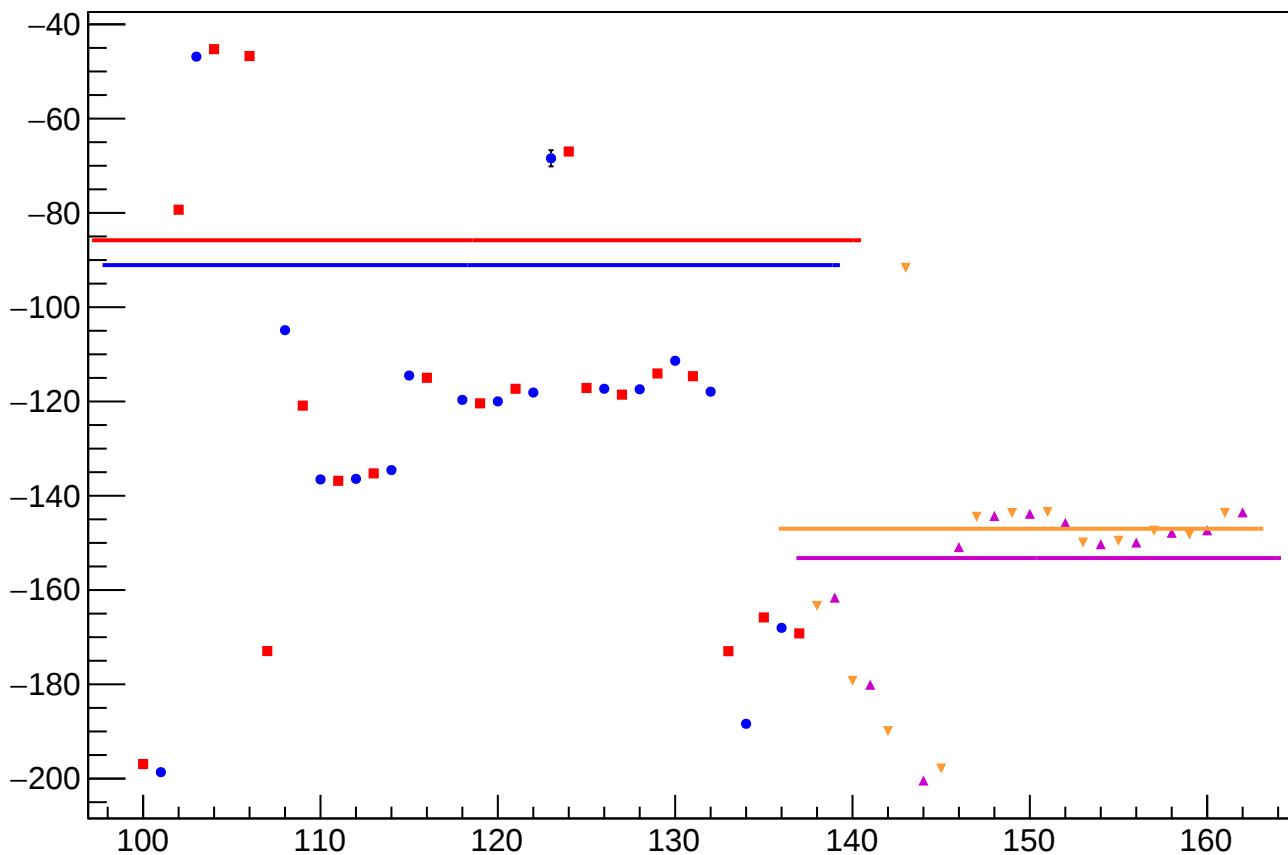
Right: 49.665 $\pm$ 0.982  $\chi^2$ /NDF: 1183.6/35

In: 55.349 $\pm$ 0.953  $\chi^2$ /NDF:969.2/28

Out: 50.247 $\pm$ 0.904  $\chi^2$ /NDF:885.0/31

All: 52.663 $\pm$ 0.656  $\chi^2$ /NDF: 1869.3/60

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-91.074 \pm 0.068$   $\chi^2/\text{NDF}: 534647.5/16$

Left Out:  $-146.993 \pm 0.061$   $\chi^2/\text{NDF}: 187044.0/12$

Right Out:  $-85.803 \pm 0.065$   $\chi^2/\text{NDF}: 495895.1/18$

Left In:  $-153.216 \pm 0.062$   $\chi^2/\text{NDF}: 55647.3/11$

Left:  $-150.040 \pm 0.043$   $\chi^2/\text{NDF}: 247850.7/24$

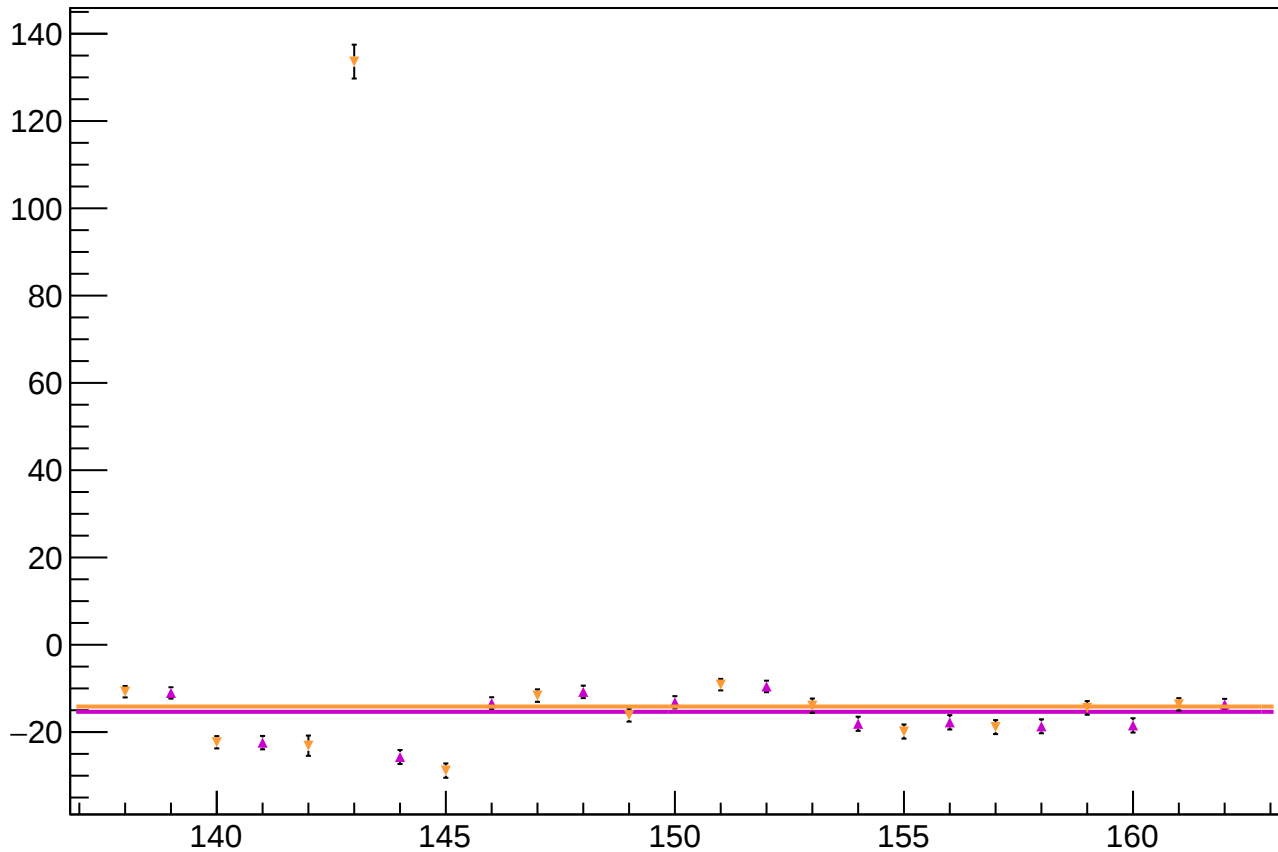
Right:  $-88.339 \pm 0.047$   $\chi^2/\text{NDF}: 1033703.0/35$

In:  $-124.848 \pm 0.046$   $\chi^2/\text{NDF}: 1050539.7/28$

Out:  $-118.548 \pm 0.044$   $\chi^2/\text{NDF}: 1156588.3/31$

All:  $-121.609 \pm 0.032$   $\chi^2/\text{NDF}: 2216932.7/60$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -14.151 $\pm$ 0.436  $\chi^2/\text{NDF}$ :1624.6/12

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

Left In: -15.364 $\pm$ 0.421  $\chi^2/\text{NDF}$ :122.3/11

Left: -14.779 $\pm$ 0.303  $\chi^2/\text{NDF}$ : 1750.9/24

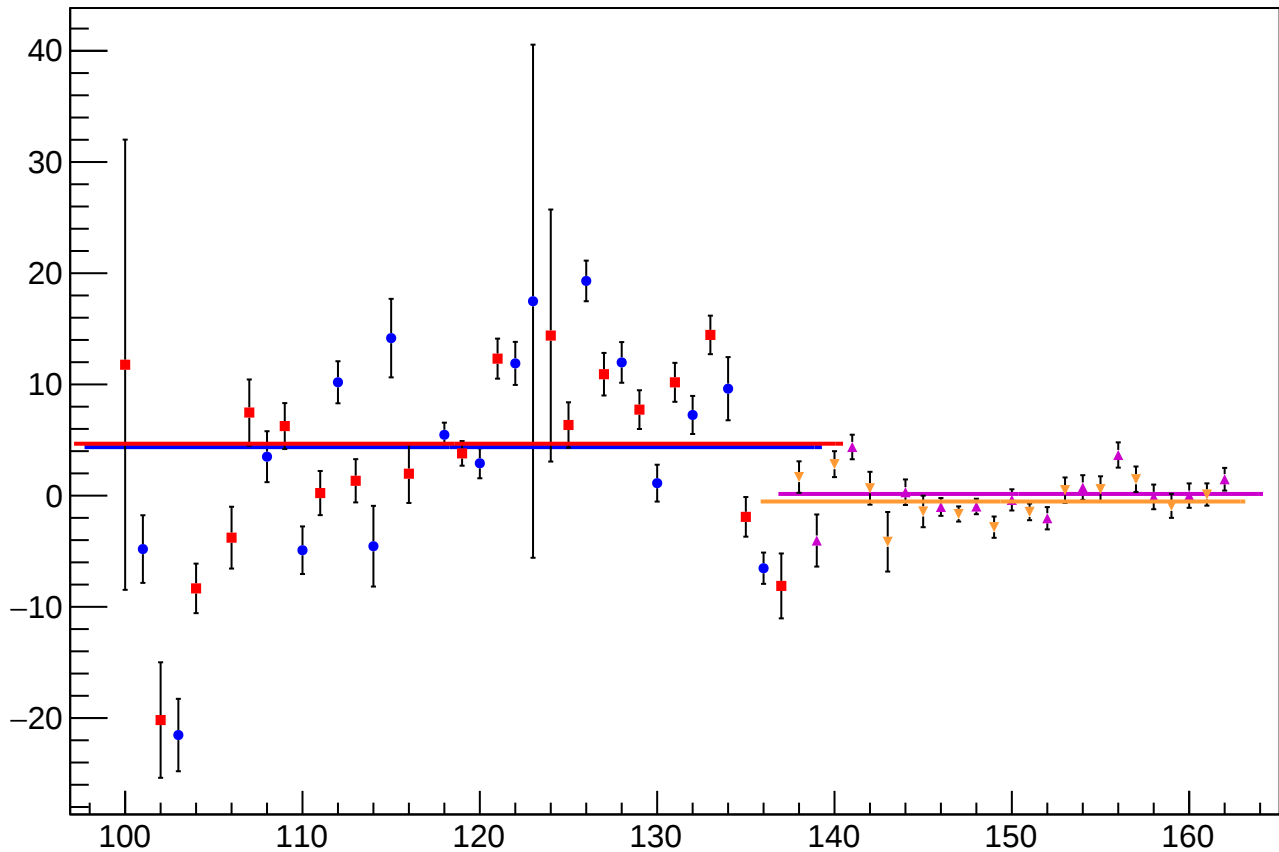
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.364 $\pm$ 0.421  $\chi^2/\text{NDF}$ :122.3/11

Out: -14.151 $\pm$ 0.436  $\chi^2/\text{NDF}$ :1624.6/12

All: -14.779 $\pm$ 0.303  $\chi^2/\text{NDF}$ : 1750.9/24

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.361 \pm 0.464$   $\chi^2/\text{NDF}: 286.5/16$

Left Out:  $-0.527 \pm 0.295$   $\chi^2/\text{NDF}: 29.0/12$

Right Out:  $4.670 \pm 0.474$   $\chi^2/\text{NDF}: 185.4/18$

Left In:  $0.152 \pm 0.293$   $\chi^2/\text{NDF}: 39.2/11$

Left:  $-0.185 \pm 0.208$   $\chi^2/\text{NDF}: 70.9/24$

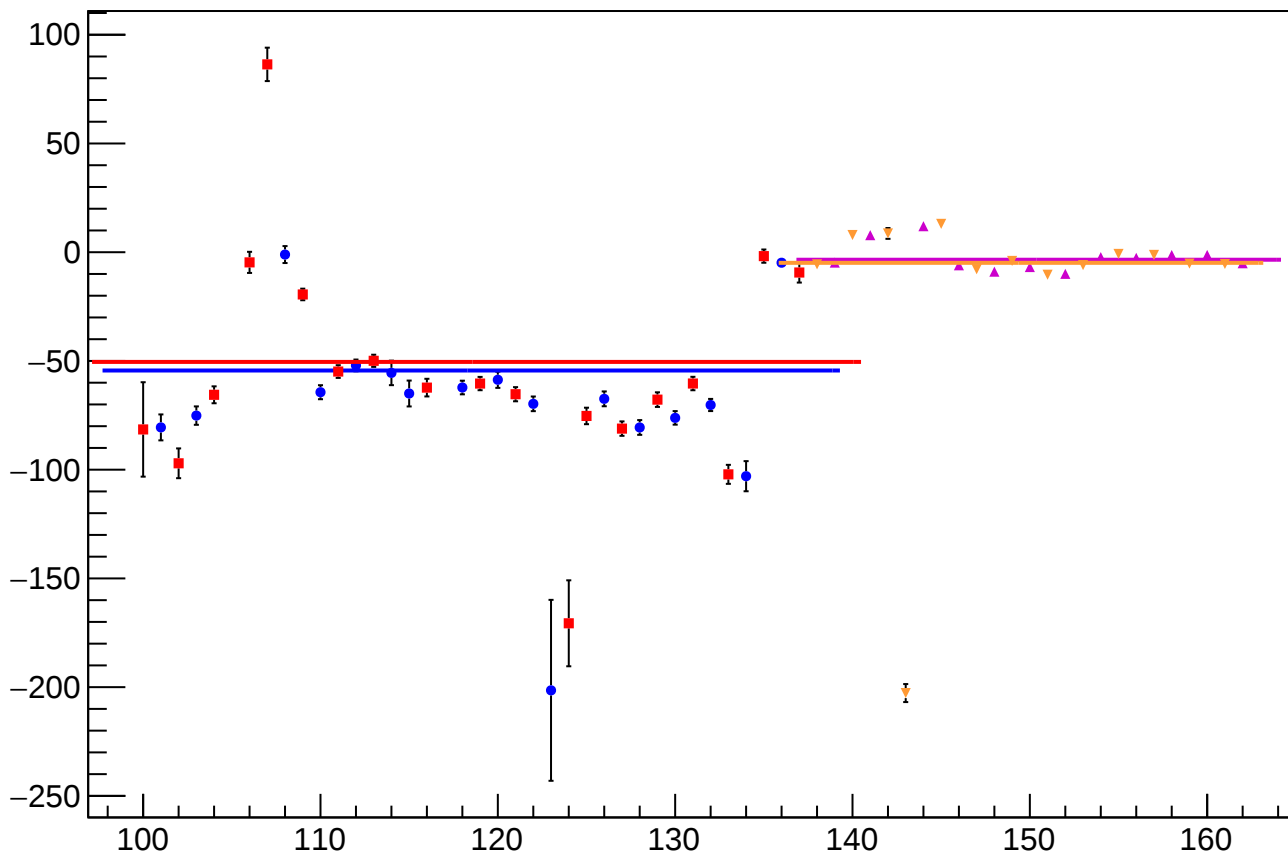
Right:  $4.512 \pm 0.332$   $\chi^2/\text{NDF}: 472.1/35$

In:  $1.349 \pm 0.248$   $\chi^2/\text{NDF}: 384.5/28$

Out:  $0.923 \pm 0.250$   $\chi^2/\text{NDF}: 301.0/31$

All:  $1.138 \pm 0.176$   $\chi^2/\text{NDF}: 686.9/60$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-54.392 \pm 0.863$   $\chi^2/\text{NDF}: 1013.4/16$

Left Out:  $-4.880 \pm 0.425$   $\chi^2/\text{NDF}: 2529.9/12$

Right Out:  $-50.441 \pm 0.857$   $\chi^2/\text{NDF}: 1324.7/18$

Left In:  $-3.455 \pm 0.409$   $\chi^2/\text{NDF}: 189.1/11$

Left:  $-4.140 \pm 0.295$   $\chi^2/\text{NDF}: 2724.9/24$

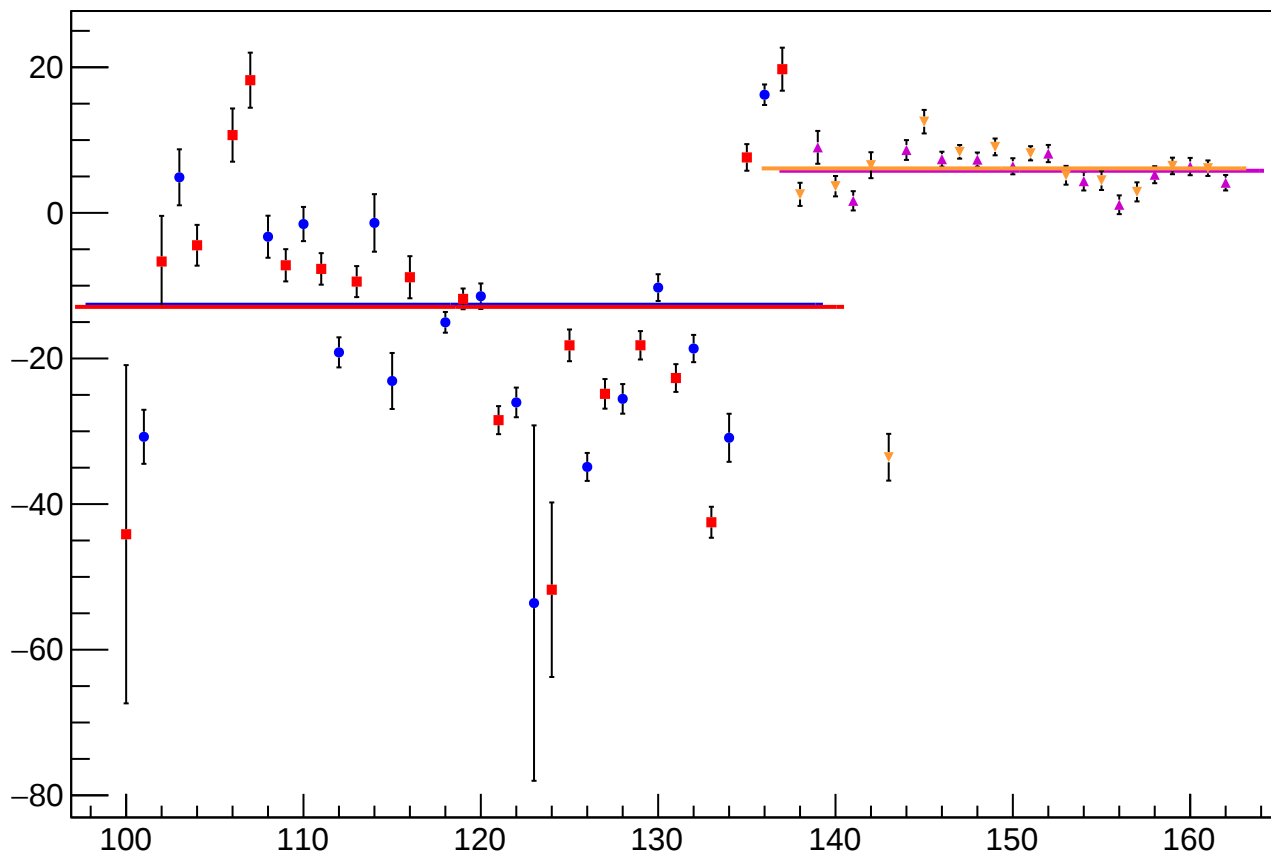
Right:  $-52.405 \pm 0.608$   $\chi^2/\text{NDF}: 2348.7/35$

In:  $-12.802 \pm 0.369$   $\chi^2/\text{NDF}: 4050.2/28$

Out:  $-13.876 \pm 0.381$   $\chi^2/\text{NDF}: 6120.9/31$

All:  $-13.322 \pm 0.265$   $\chi^2/\text{NDF}: 10175.1/60$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.616 \pm 0.530$   $\chi^2/\text{NDF}$ : 788.2/16

Left Out:  $6.107 \pm 0.353$   $\chi^2/\text{NDF}$ : 201.7/12

Right Out:  $-12.912 \pm 0.538$   $\chi^2/\text{NDF}$ : 730.2/18

Left In:  $5.786 \pm 0.345$   $\chi^2/\text{NDF}$ : 42.5/11

Left:  $5.943 \pm 0.247$   $\chi^2/\text{NDF}$ : 244.6/24

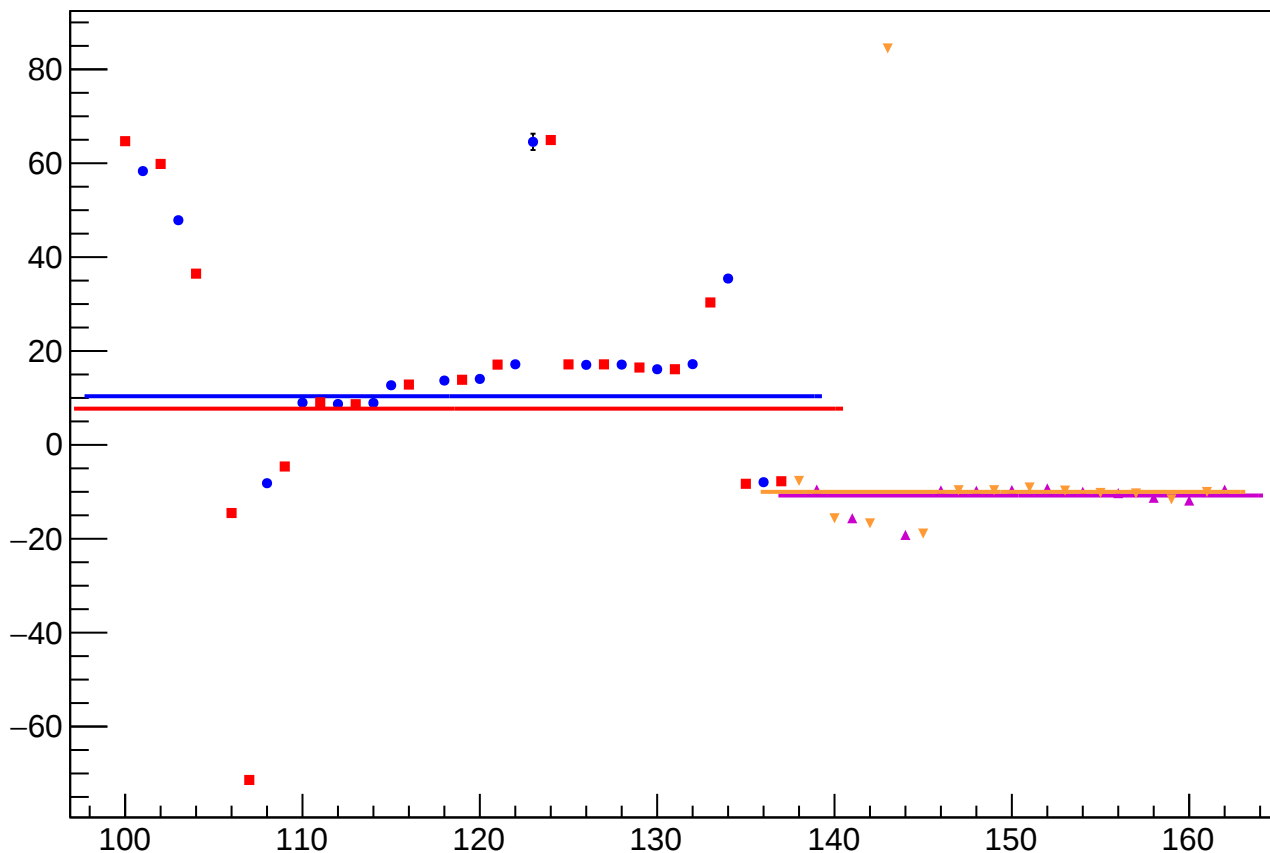
Right:  $-12.762 \pm 0.378$   $\chi^2/\text{NDF}$ : 1518.6/35

In:  $0.306 \pm 0.289$   $\chi^2/\text{NDF}$ : 1676.7/28

Out:  $0.395 \pm 0.295$   $\chi^2/\text{NDF}$ : 1805.6/31

All:  $0.349 \pm 0.207$   $\chi^2/\text{NDF}$ : 3482.4/60

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 10.366+/-0.031  $\chi^2/\text{NDF}$ : 381003.5/16

Left Out: -10.002+/-0.017  $\chi^2/\text{NDF}$ : 355763.3/12

Right Out: 7.719+/-0.031  $\chi^2/\text{NDF}$ : 545085.7/18

Left In: -10.786+/-0.016  $\chi^2/\text{NDF}$ : 21945.4/11

Left: -10.410+/-0.011  $\chi^2/\text{NDF}$ : 378872.0/24

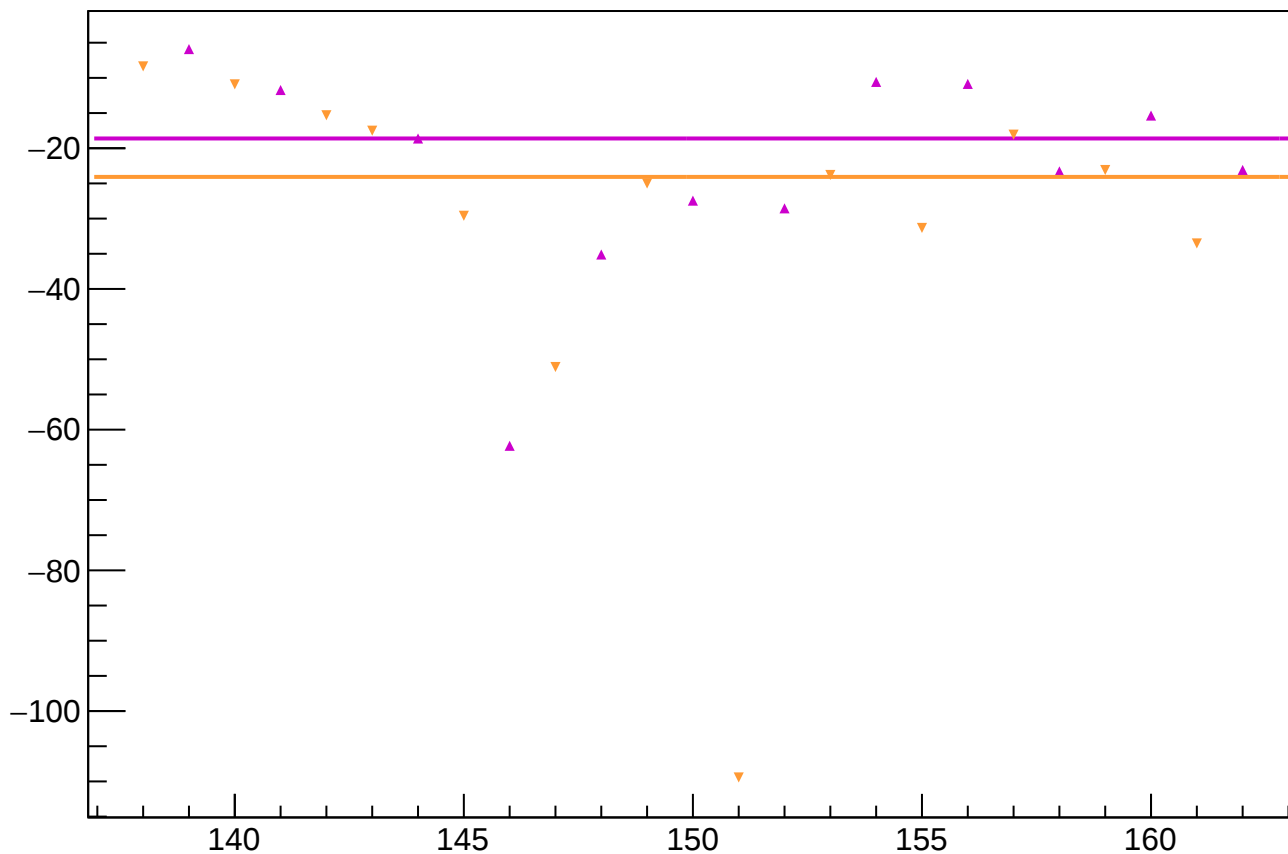
Right: 9.073+/-0.022  $\chi^2/\text{NDF}$ : 929756.2/35

In: -6.275+/-0.014  $\chi^2/\text{NDF}$ : 780407.9/28

Out: -6.114+/-0.015  $\chi^2/\text{NDF}$ : 1151801.1/31

All: -6.198+/-0.010  $\chi^2/\text{NDF}$ : 1932271.2/60

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -24.075+/-0.072  $\chi^2/NDF$ :52159.5/12

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

Left In: -18.613+/-0.060  $\chi^2/NDF$ :37464.7/11

Left: -20.843+/-0.046  $\chi^2/NDF$ : 93015.1/24

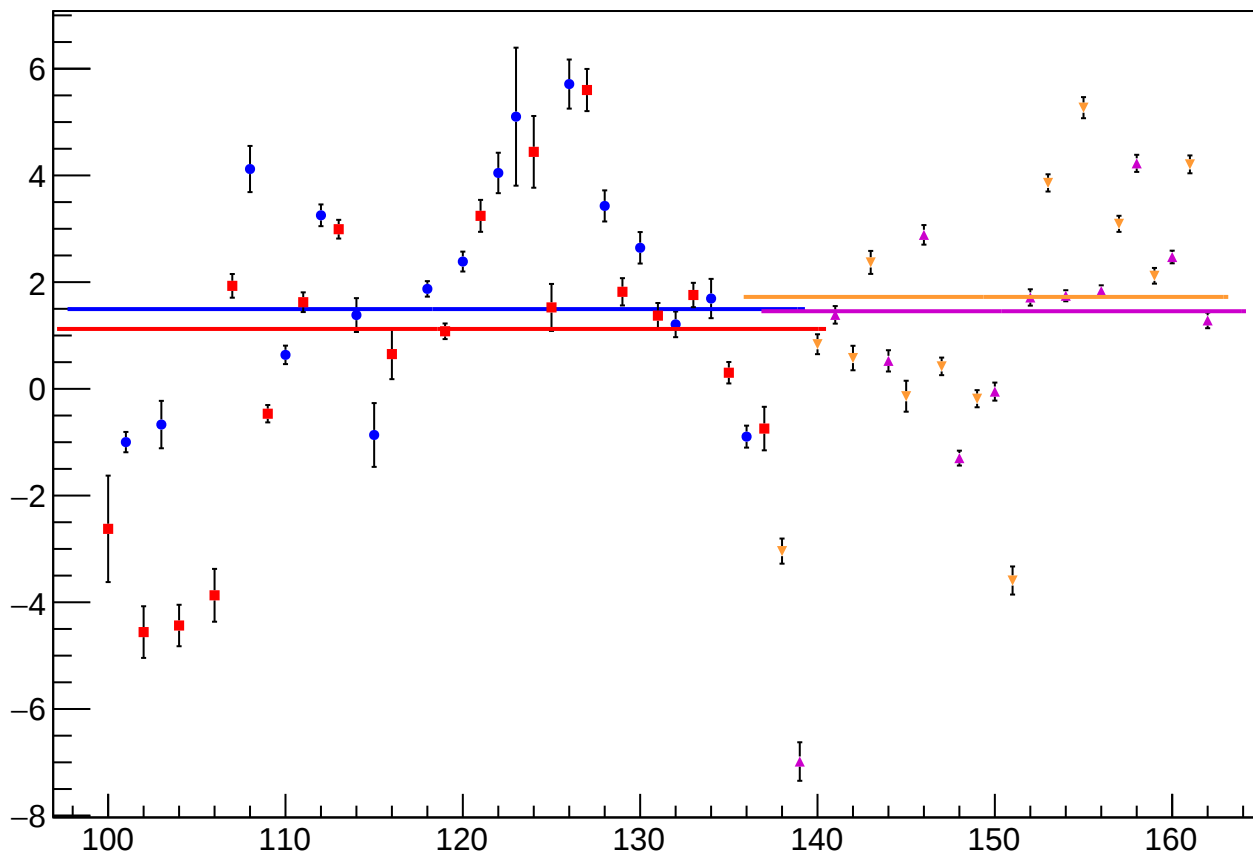
Right: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

In: -18.613+/-0.060  $\chi^2/NDF$ :37464.7/11

Out: -24.075+/-0.072  $\chi^2/NDF$ :52159.5/12

All: -20.843+/-0.046  $\chi^2/NDF$ : 93015.1/24

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.495 $\pm$ 0.061  $\chi^2$ /NDF: 708.8/16

Left Out: 1.723 $\pm$ 0.051  $\chi^2$ /NDF:1926.0/12

Right Out: 1.123 $\pm$ 0.058  $\chi^2$ /NDF: 946.5/18

Left In: 1.455 $\pm$ 0.042  $\chi^2$ /NDF:1493.2/11

Left: 1.563 $\pm$ 0.033  $\chi^2$ /NDF: 3435.5/24

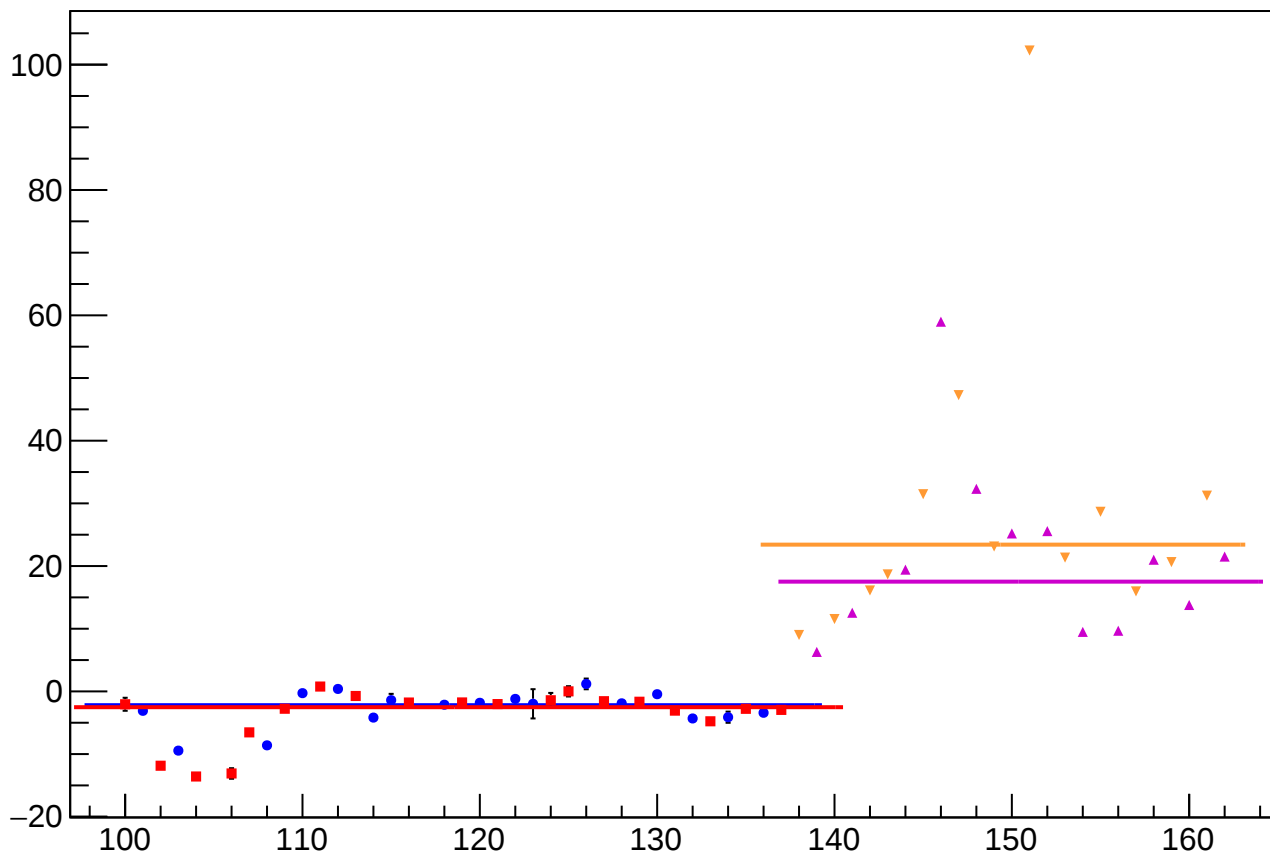
Right: 1.300 $\pm$ 0.042  $\chi^2$ /NDF: 1674.8/35

In: 1.468 $\pm$ 0.035  $\chi^2$ /NDF:2202.3/28

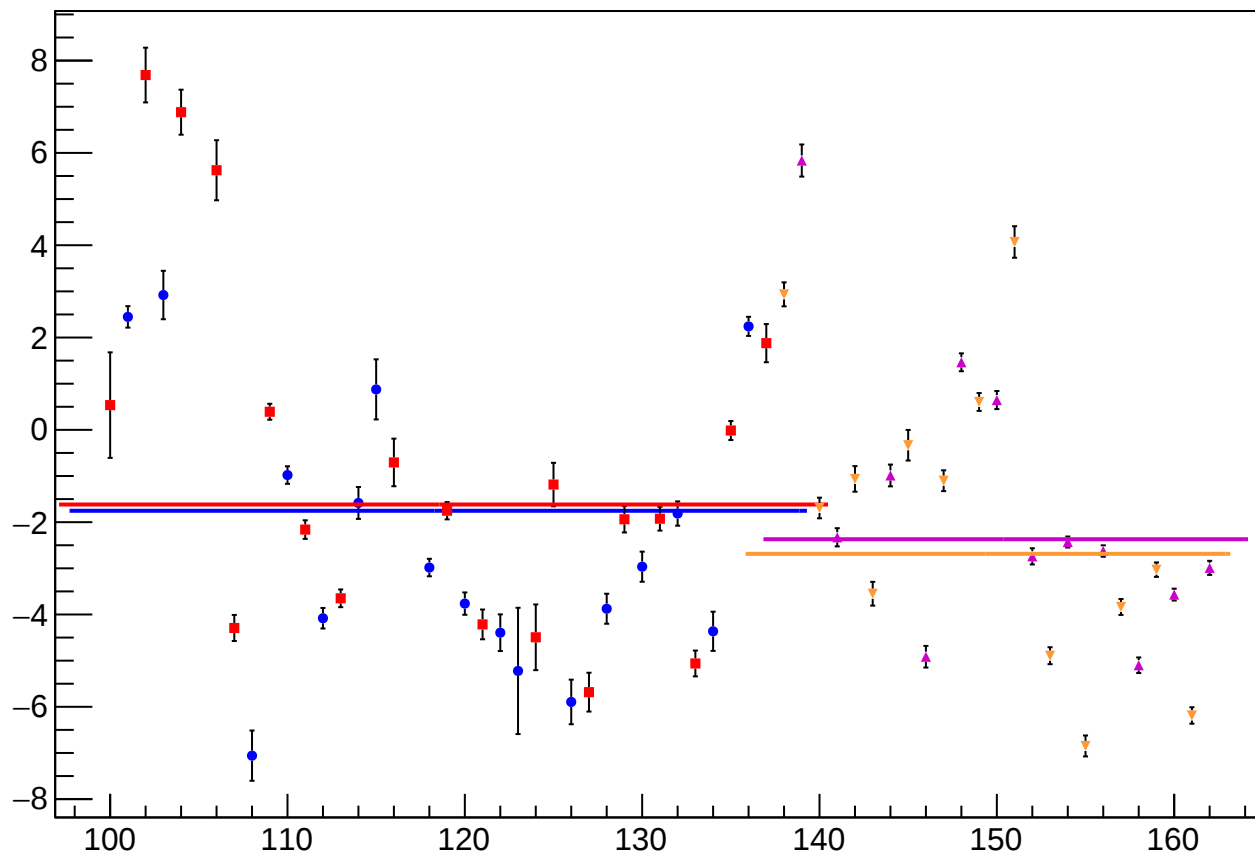
Out: 1.460 $\pm$ 0.039  $\chi^2$ /NDF:2932.3/31

All: 1.464 $\pm$ 0.026  $\chi^2$ /NDF: 5134.6/60

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.753 \pm 0.070$   $\chi^2/\text{NDF}$ : 1345.0/16

Left Out:  $-2.686 \pm 0.060$   $\chi^2/\text{NDF}$ : 2230.7/12

Right Out:  $-1.617 \pm 0.066$   $\chi^2/\text{NDF}$ : 1487.5/18

Left In:  $-2.369 \pm 0.048$   $\chi^2/\text{NDF}$ : 1710.4/11

Left:  $-2.495 \pm 0.037$   $\chi^2/\text{NDF}$ : 3958.2/24

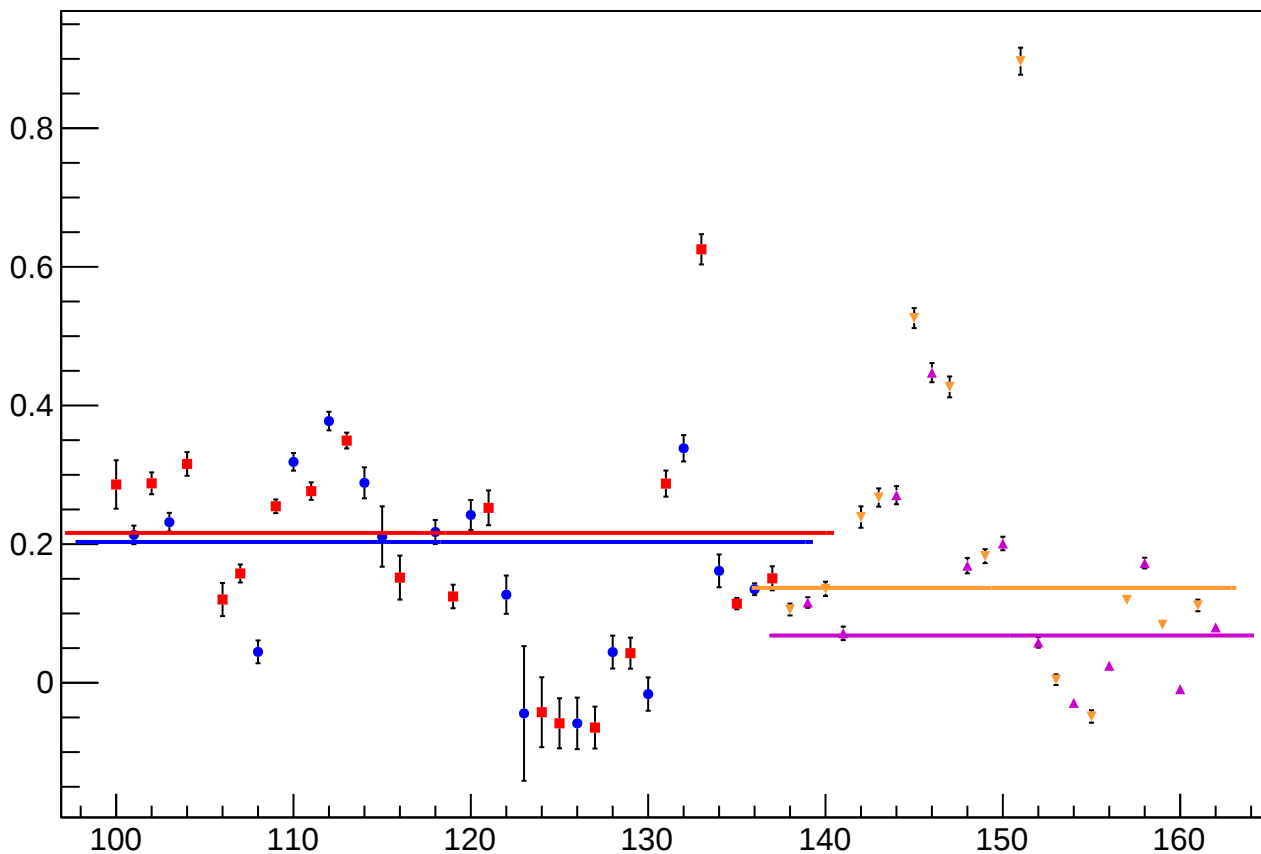
Right:  $-1.681 \pm 0.048$   $\chi^2/\text{NDF}$ : 2834.6/35

In:  $-2.172 \pm 0.040$   $\chi^2/\text{NDF}$ : 3107.6/28

Out:  $-2.204 \pm 0.044$   $\chi^2/\text{NDF}$ : 3863.5/31

All:  $-2.186 \pm 0.030$   $\chi^2/\text{NDF}$ : 6971.5/60

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004  $\chi^2$ /NDF: 677.2/16

Left Out: 0.137 $\pm$ 0.003  $\chi^2$ /NDF: 3578.7/12

Right Out: 0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1067.3/18

Left In: 0.068 $\pm$ 0.002  $\chi^2$ /NDF: 2122.1/11

Left: 0.095 $\pm$ 0.002  $\chi^2$ /NDF: 6109.5/24

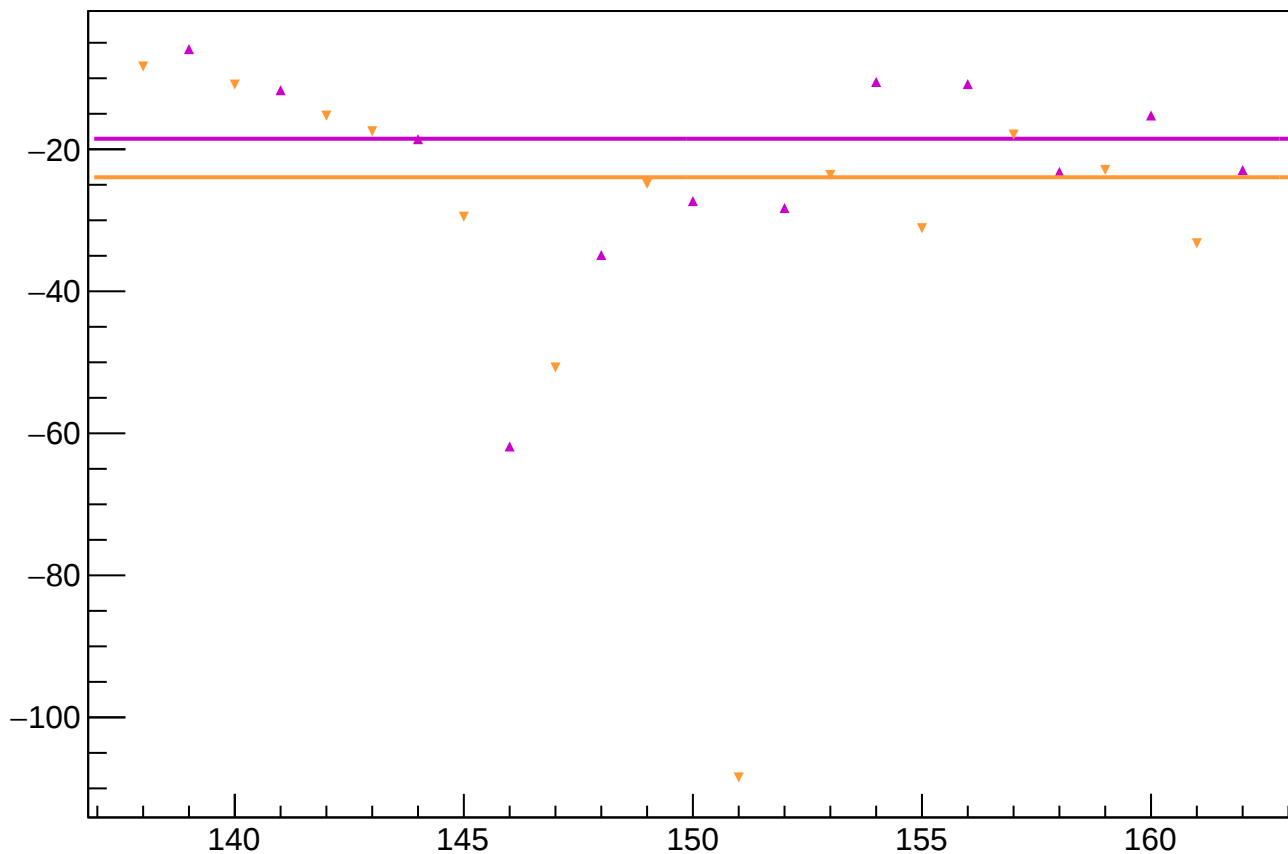
Right: 0.210 $\pm$ 0.003  $\chi^2$ /NDF: 1750.0/35

In: 0.096 $\pm$ 0.002  $\chi^2$ /NDF: 3645.1/28

Out: 0.164 $\pm$ 0.002  $\chi^2$ /NDF: 4948.7/31

All: 0.125 $\pm$ 0.001  $\chi^2$ /NDF: 9158.2/60

reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -23.942+/-0.072  $\chi^2/\text{NDF}$ : 52015.4/12

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

Left In: -18.518+/-0.060  $\chi^2/\text{NDF}$ : 37389.1/11

Left: -20.733+/-0.046  $\chi^2/\text{NDF}$ : 92790.2/24

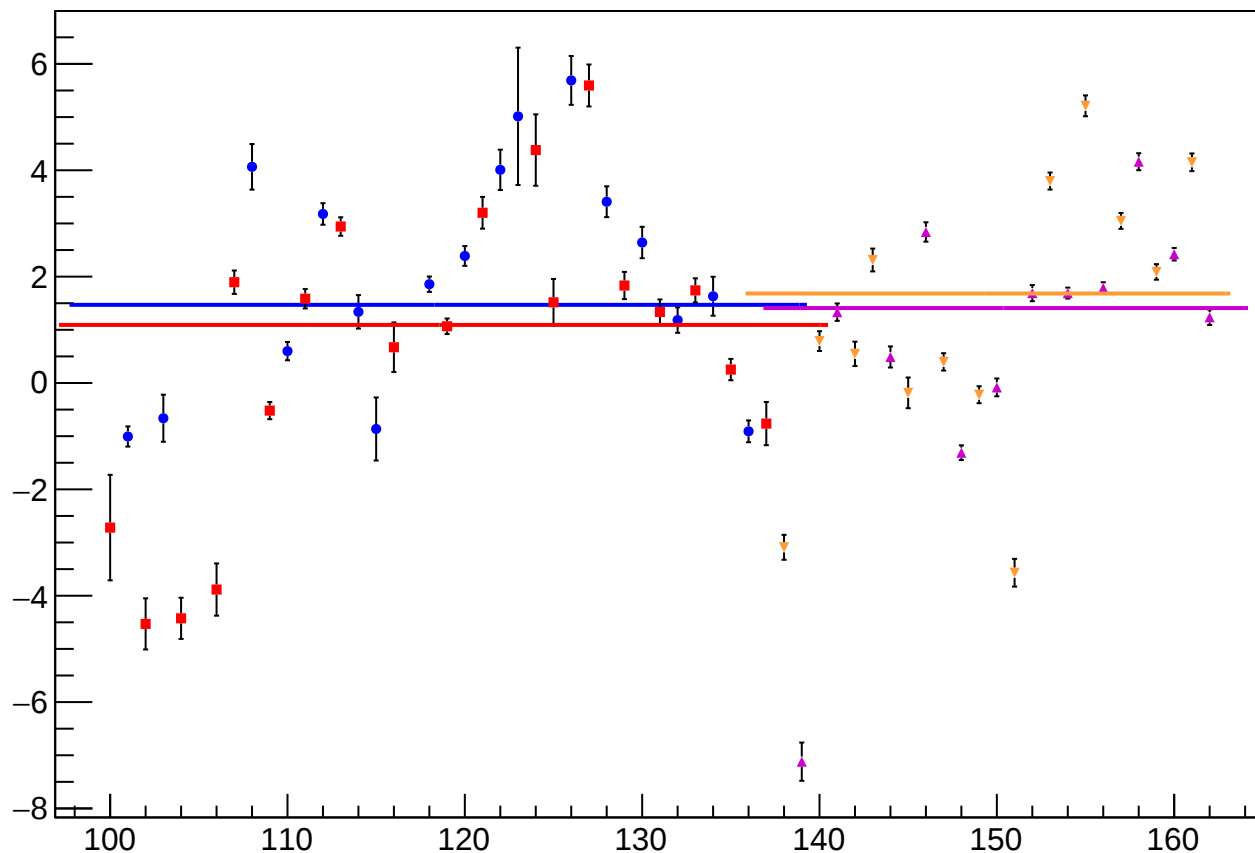
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.518+/-0.060  $\chi^2/\text{NDF}$ : 37389.1/11

Out: -23.942+/-0.072  $\chi^2/\text{NDF}$ : 52015.4/12

All: -20.733+/-0.046  $\chi^2/\text{NDF}$ : 92790.2/24

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.470 \pm 0.061$   $\chi^2/\text{NDF}$ : 707.9/16

Left Out:  $1.683 \pm 0.051$   $\chi^2/\text{NDF}$ : 1931.6/12

Right Out:  $1.092 \pm 0.058$   $\chi^2/\text{NDF}$ : 952.1/18

Left In:  $1.409 \pm 0.042$   $\chi^2/\text{NDF}$ : 1505.4/11

Left:  $1.520 \pm 0.032$   $\chi^2/\text{NDF}$ : 3454.2/24

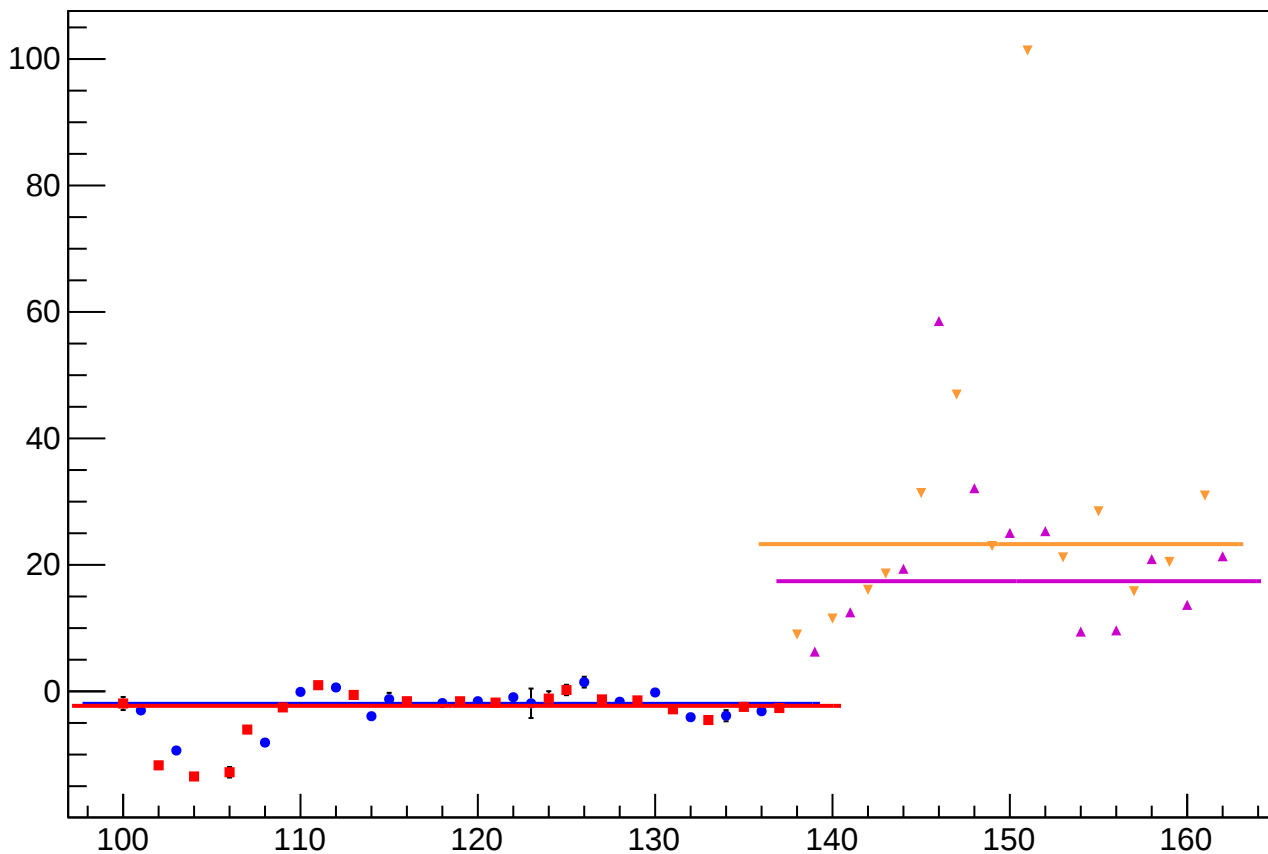
Right:  $1.272 \pm 0.042$   $\chi^2/\text{NDF}$ : 1680.2/35

In:  $1.429 \pm 0.034$   $\chi^2/\text{NDF}$ : 2214.0/28

Out:  $1.425 \pm 0.038$   $\chi^2/\text{NDF}$ : 2942.3/31

All:  $1.427 \pm 0.026$   $\chi^2/\text{NDF}$ : 5156.3/60

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-1.977 \pm 0.110$   $\chi^2/\text{NDF}: 463.8/16$

Left Out:  $23.280 \pm 0.070$   $\chi^2/\text{NDF}: 46820.0/12$

Right Out:  $-2.294 \pm 0.098$   $\chi^2/\text{NDF}: 906.6/18$

Left In:  $17.421 \pm 0.057$   $\chi^2/\text{NDF}: 35253.9/11$

Left:  $19.759 \pm 0.044$   $\chi^2/\text{NDF}: 86272.7/24$

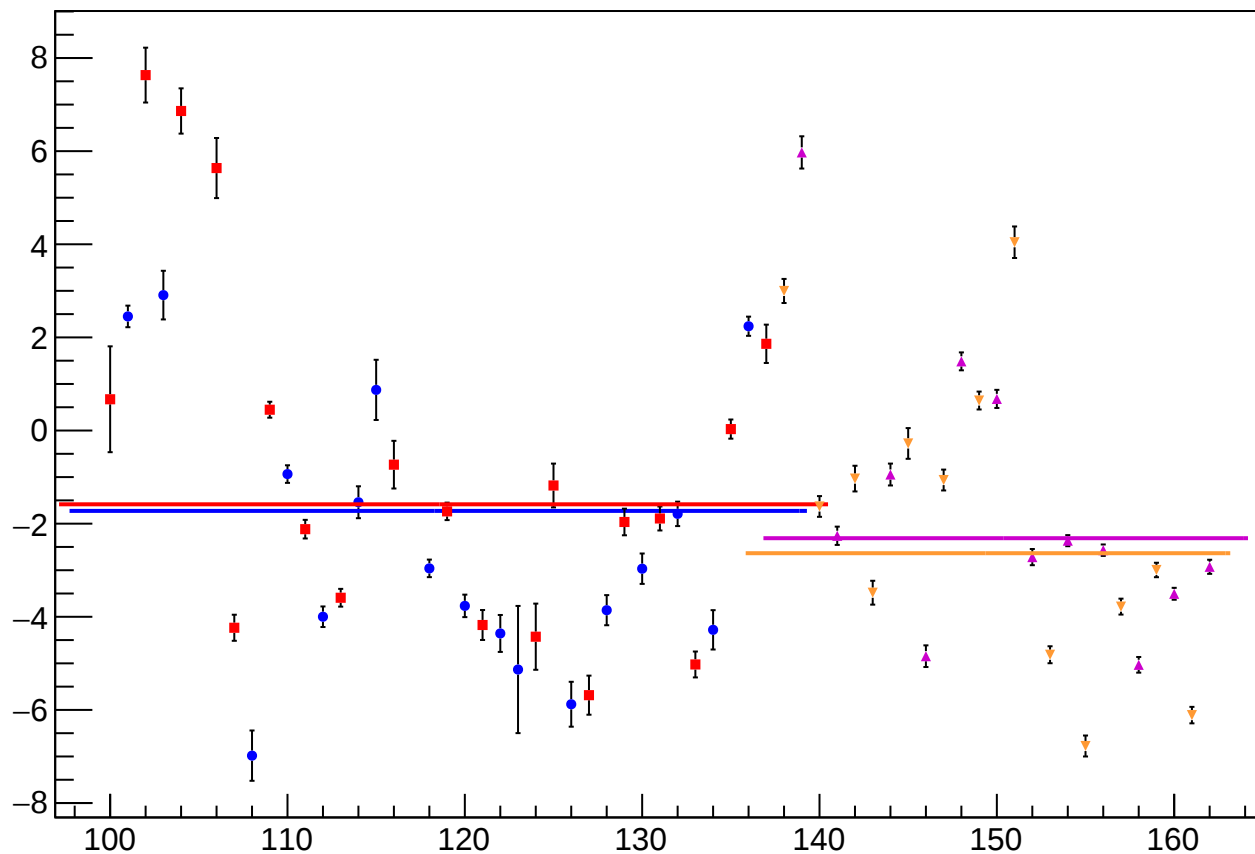
Right:  $-2.153 \pm 0.073$   $\chi^2/\text{NDF}: 1375.0/35$

In:  $13.303 \pm 0.051$   $\chi^2/\text{NDF}: 60194.3/28$

Out:  $14.674 \pm 0.057$   $\chi^2/\text{NDF}: 92519.3/31$

All:  $13.907 \pm 0.038$   $\chi^2/\text{NDF}: 153036.1/60$

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.726 \pm 0.070$   $\chi^2/\text{NDF}$ : 1341.5/16

Left Out:  $-2.635 \pm 0.059$   $\chi^2/\text{NDF}$ : 2237.7/12

Right Out:  $-1.584 \pm 0.065$   $\chi^2/\text{NDF}$ : 1492.8/18

Left In:  $-2.312 \pm 0.048$   $\chi^2/\text{NDF}$ : 1726.1/11

Left:  $-2.440 \pm 0.037$   $\chi^2/\text{NDF}$ : 3981.7/24

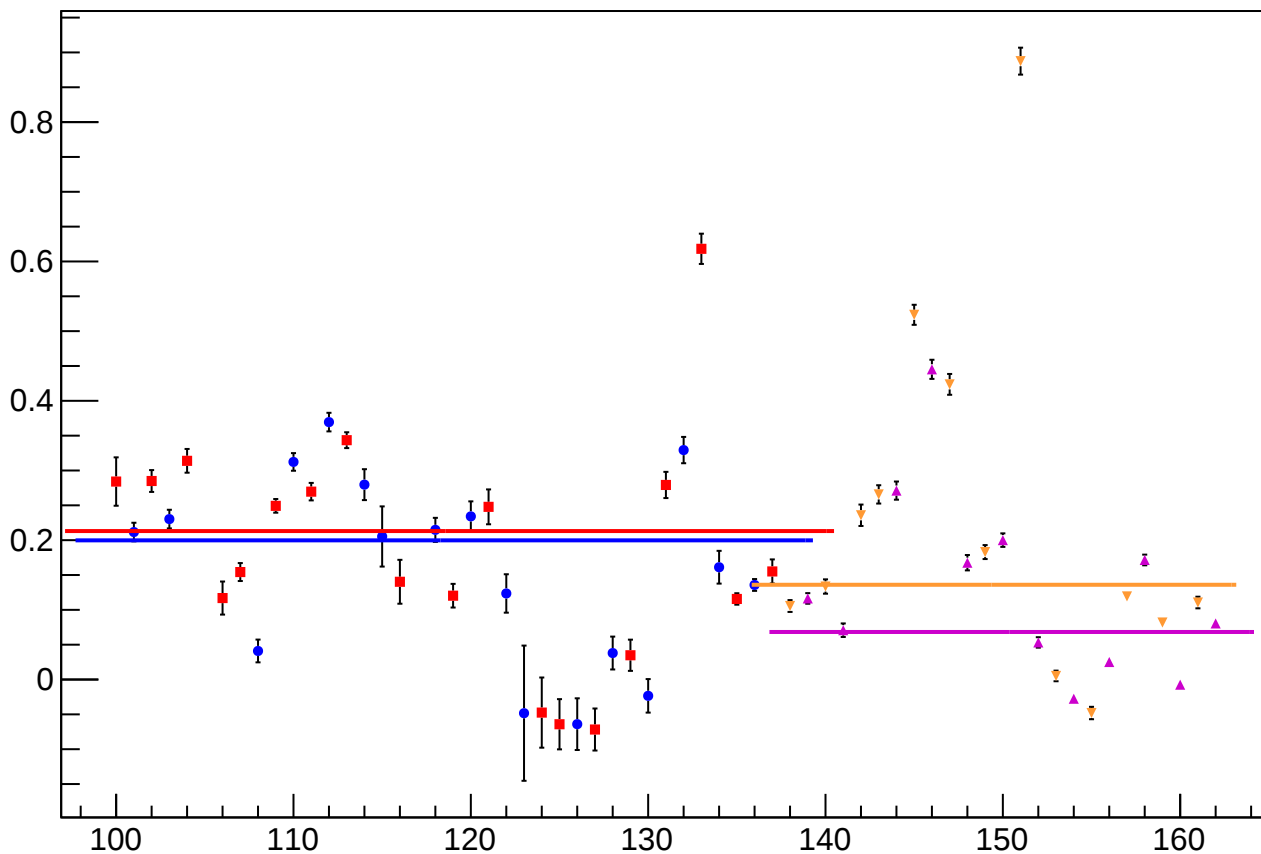
Right:  $-1.650 \pm 0.048$   $\chi^2/\text{NDF}$ : 2836.5/35

In:  $-2.125 \pm 0.040$   $\chi^2/\text{NDF}$ : 3115.3/28

Out:  $-2.162 \pm 0.044$   $\chi^2/\text{NDF}$ : 3872.4/31

All:  $-2.142 \pm 0.029$   $\chi^2/\text{NDF}$ : 6988.1/60

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.200 \pm 0.004$   $\chi^2/\text{NDF}$ : 662.5/16

Left Out:  $0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 3572.4/12

Right Out:  $0.213 \pm 0.004$   $\chi^2/\text{NDF}$ : 1050.9/18

Left In:  $0.068 \pm 0.002$   $\chi^2/\text{NDF}$ : 2115.9/11

Left:  $0.094 \pm 0.002$   $\chi^2/\text{NDF}$ : 6090.3/24

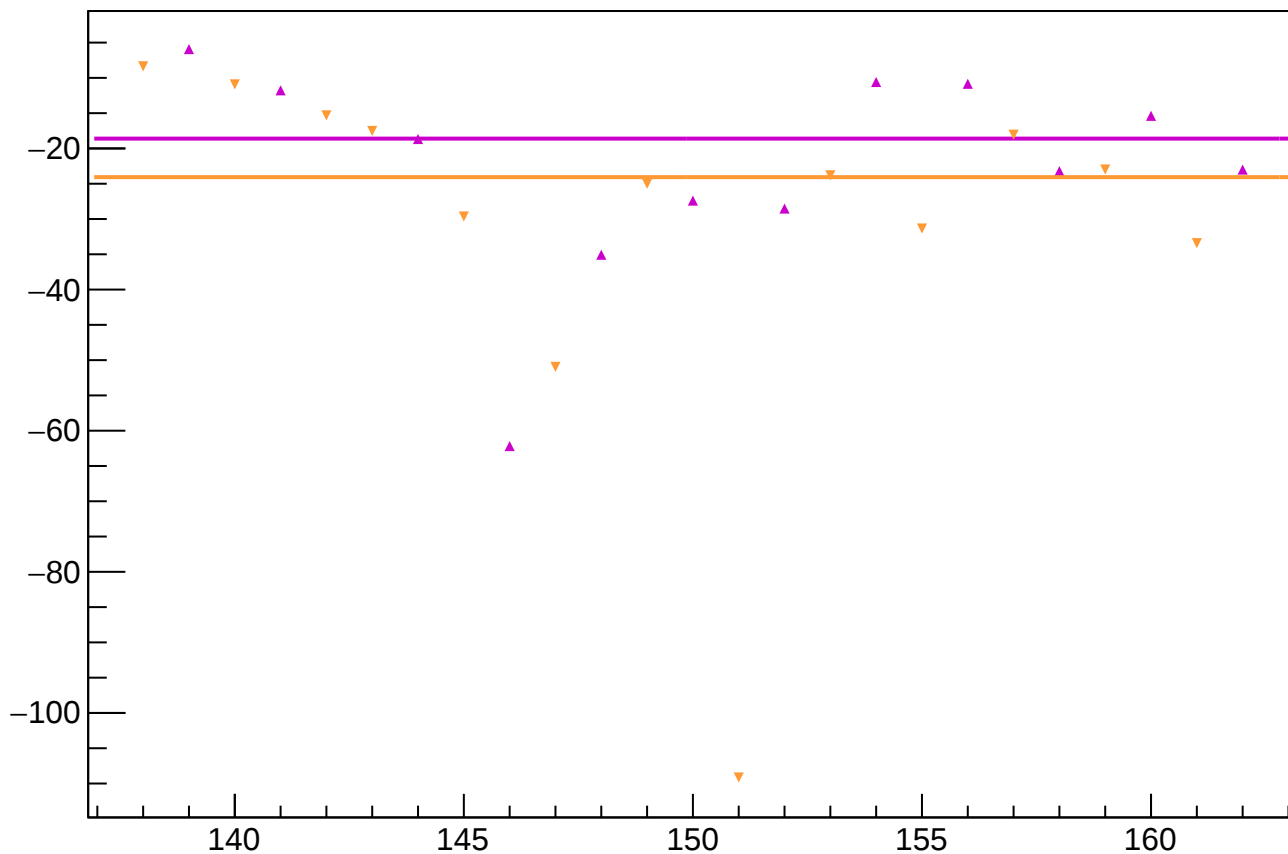
Right:  $0.207 \pm 0.003$   $\chi^2/\text{NDF}$ : 1719.2/35

In:  $0.095 \pm 0.002$   $\chi^2/\text{NDF}$ : 3590.0/28

Out:  $0.162 \pm 0.002$   $\chi^2/\text{NDF}$ : 4912.8/31

All:  $0.124 \pm 0.001$   $\chi^2/\text{NDF}$ : 9056.8/60

reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -24.069+/-0.072  $\chi^2/\text{NDF}$ : 52136.0/12

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

Left In: -18.607+/-0.060  $\chi^2/\text{NDF}$ : 37448.0/11

Left: -20.835+/-0.046  $\chi^2/\text{NDF}$ : 92988.4/24

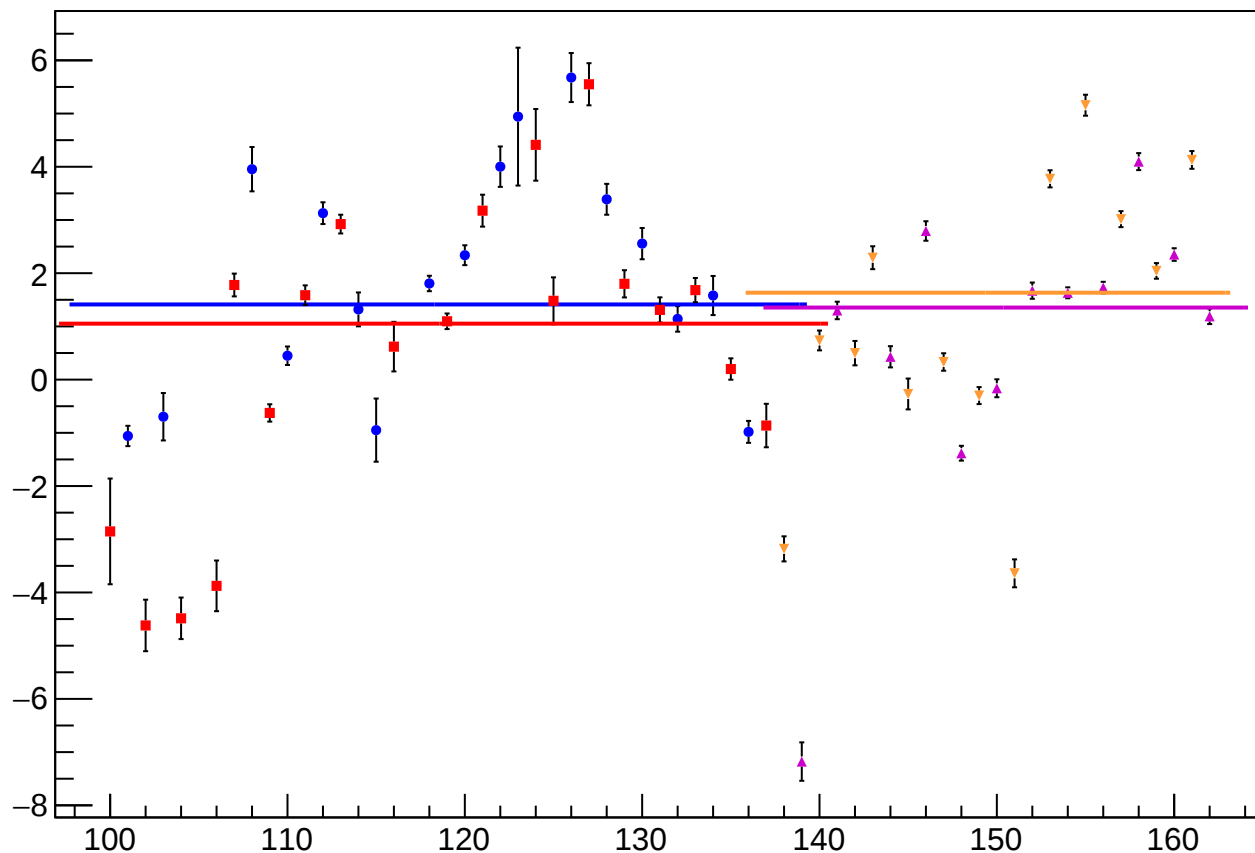
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.607+/-0.060  $\chi^2/\text{NDF}$ : 37448.0/11

Out: -24.069+/-0.072  $\chi^2/\text{NDF}$ : 52136.0/12

All: -20.835+/-0.046  $\chi^2/\text{NDF}$ : 92988.4/24

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.413 \pm 0.061$   $\chi^2/\text{NDF}$ : 713.9/16

Left Out:  $1.633 \pm 0.051$   $\chi^2/\text{NDF}$ : 1943.5/12

Right Out:  $1.052 \pm 0.058$   $\chi^2/\text{NDF}$ : 963.3/18

Left In:  $1.354 \pm 0.042$   $\chi^2/\text{NDF}$ : 1499.1/11

Left:  $1.467 \pm 0.032$   $\chi^2/\text{NDF}$ : 3460.4/24

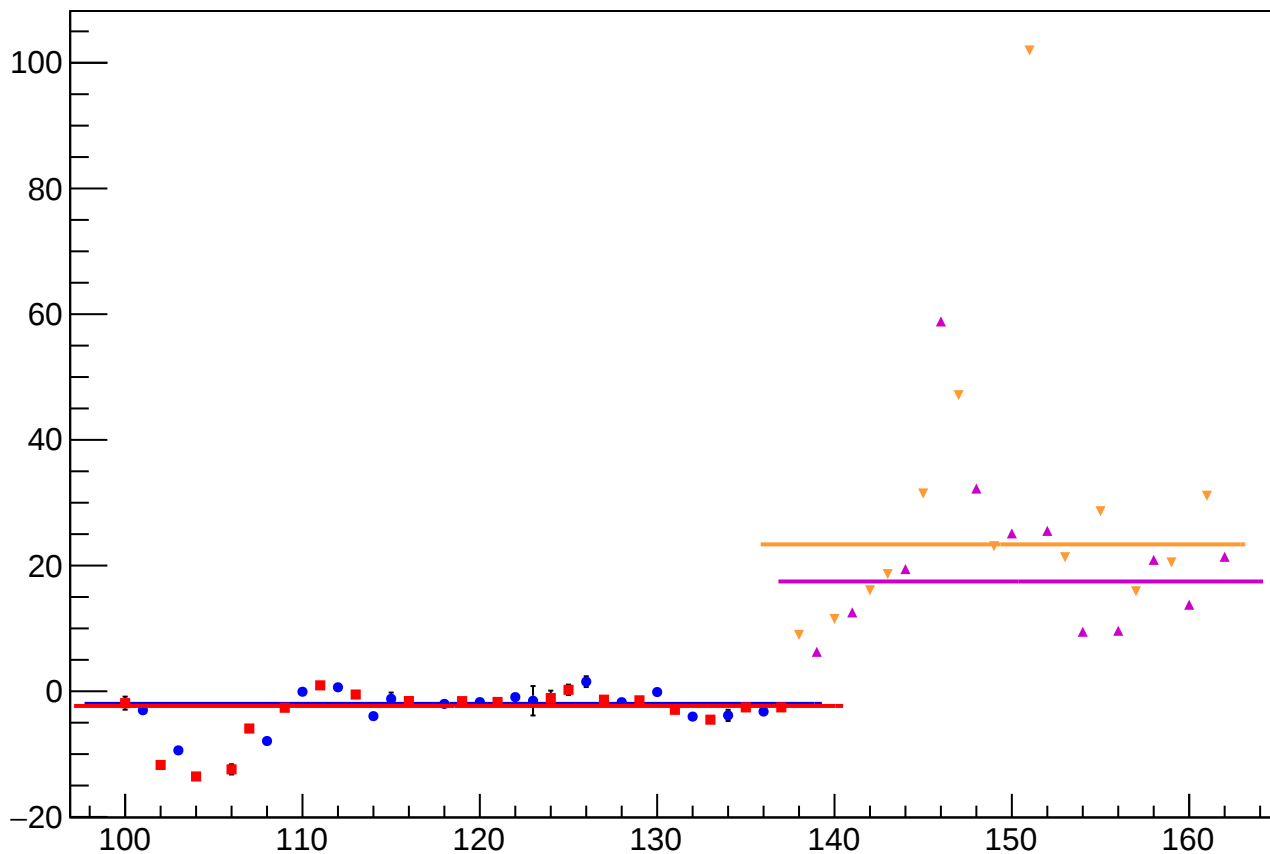
Right:  $1.223 \pm 0.042$   $\chi^2/\text{NDF}$ : 1695.5/35

In:  $1.373 \pm 0.035$   $\chi^2/\text{NDF}$ : 2213.6/28

Out:  $1.379 \pm 0.038$   $\chi^2/\text{NDF}$ : 2963.2/31

All:  $1.376 \pm 0.026$   $\chi^2/\text{NDF}$ : 5176.8/60

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.006 \pm 0.111$   $\chi^2/\text{NDF}$ : 463.3/16

Left Out:  $23.372 \pm 0.070$   $\chi^2/\text{NDF}$ : 46924.7/12

Right Out:  $-2.336 \pm 0.099$   $\chi^2/\text{NDF}$ : 901.2/18

Left In:  $17.469 \pm 0.057$   $\chi^2/\text{NDF}$ : 35321.0/11

Left:  $19.823 \pm 0.044$   $\chi^2/\text{NDF}$ : 86472.2/24

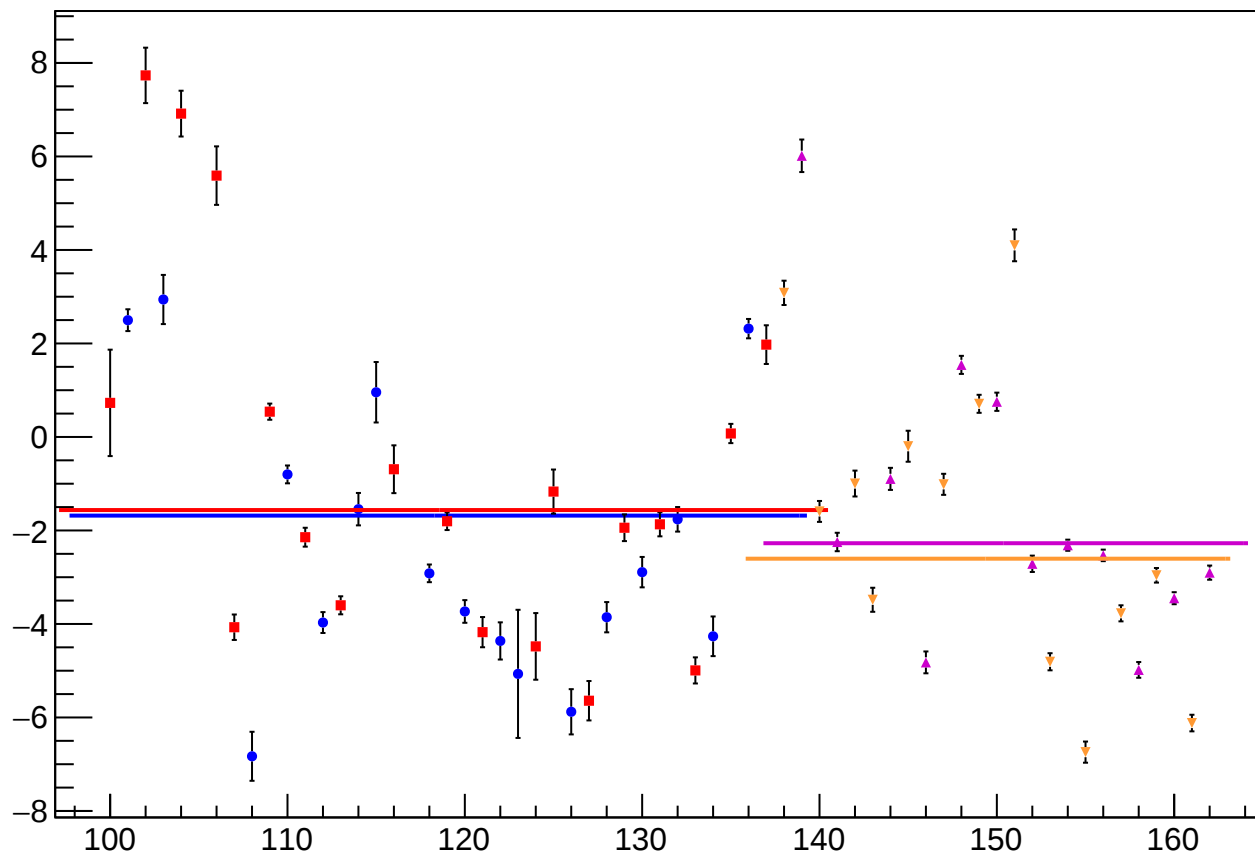
Right:  $-2.190 \pm 0.074$   $\chi^2/\text{NDF}$ : 1369.4/35

In:  $13.345 \pm 0.051$   $\chi^2/\text{NDF}$ : 60215.2/28

Out:  $14.727 \pm 0.057$   $\chi^2/\text{NDF}$ : 92662.4/31

All:  $13.954 \pm 0.038$   $\chi^2/\text{NDF}$ : 153202.4/60

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.682 \pm 0.070$   $\chi^2/\text{NDF}$ : 1347.8/16

Left Out:  $-2.604 \pm 0.059$   $\chi^2/\text{NDF}$ : 2253.6/12

Right Out:  $-1.563 \pm 0.066$   $\chi^2/\text{NDF}$ : 1504.7/18

Left In:  $-2.273 \pm 0.048$   $\chi^2/\text{NDF}$ : 1721.2/11

Left:  $-2.404 \pm 0.037$   $\chi^2/\text{NDF}$ : 3993.5/24

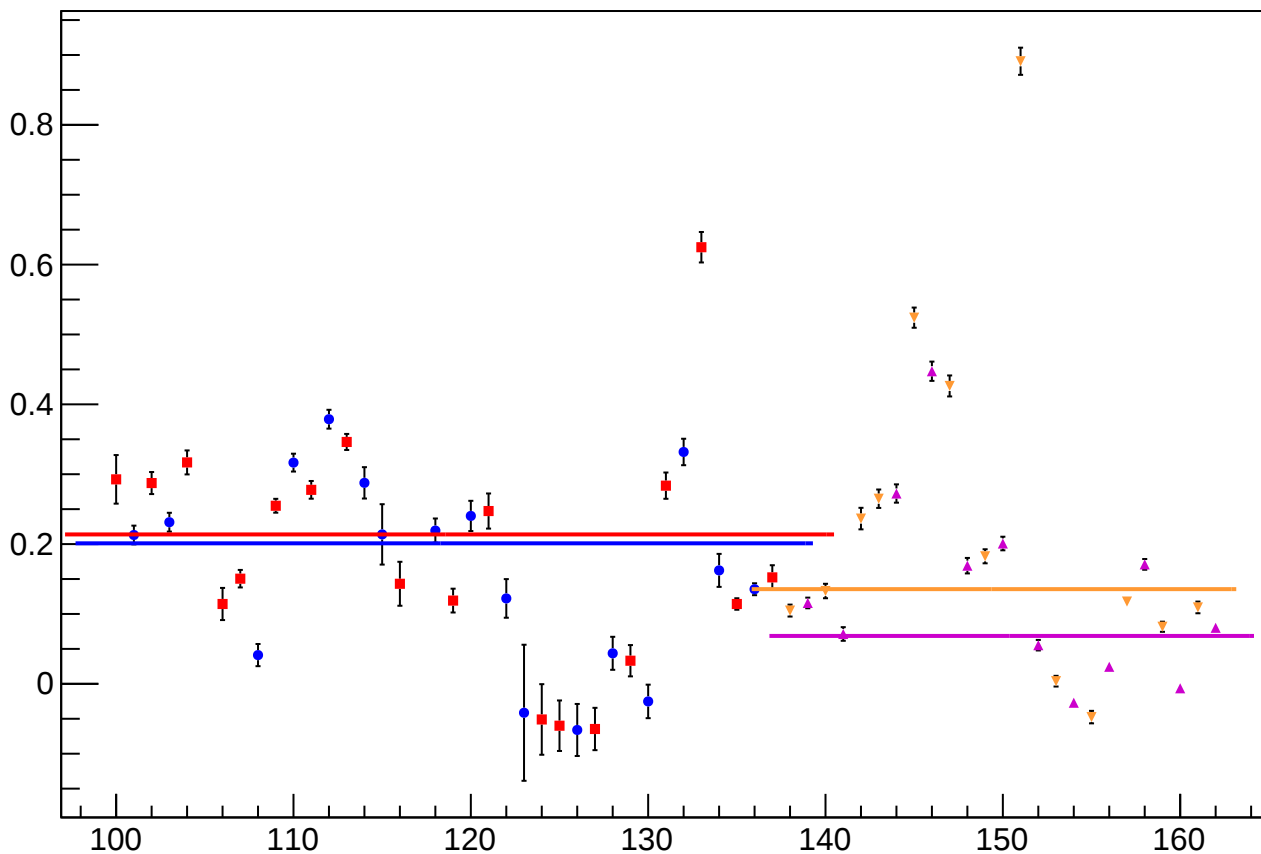
Right:  $-1.619 \pm 0.048$   $\chi^2/\text{NDF}$ : 2854.1/35

In:  $-2.084 \pm 0.040$   $\chi^2/\text{NDF}$ : 3117.1/28

Out:  $-2.135 \pm 0.044$   $\chi^2/\text{NDF}$ : 3896.4/31

All:  $-2.107 \pm 0.029$   $\chi^2/\text{NDF}$ : 7014.2/60

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected

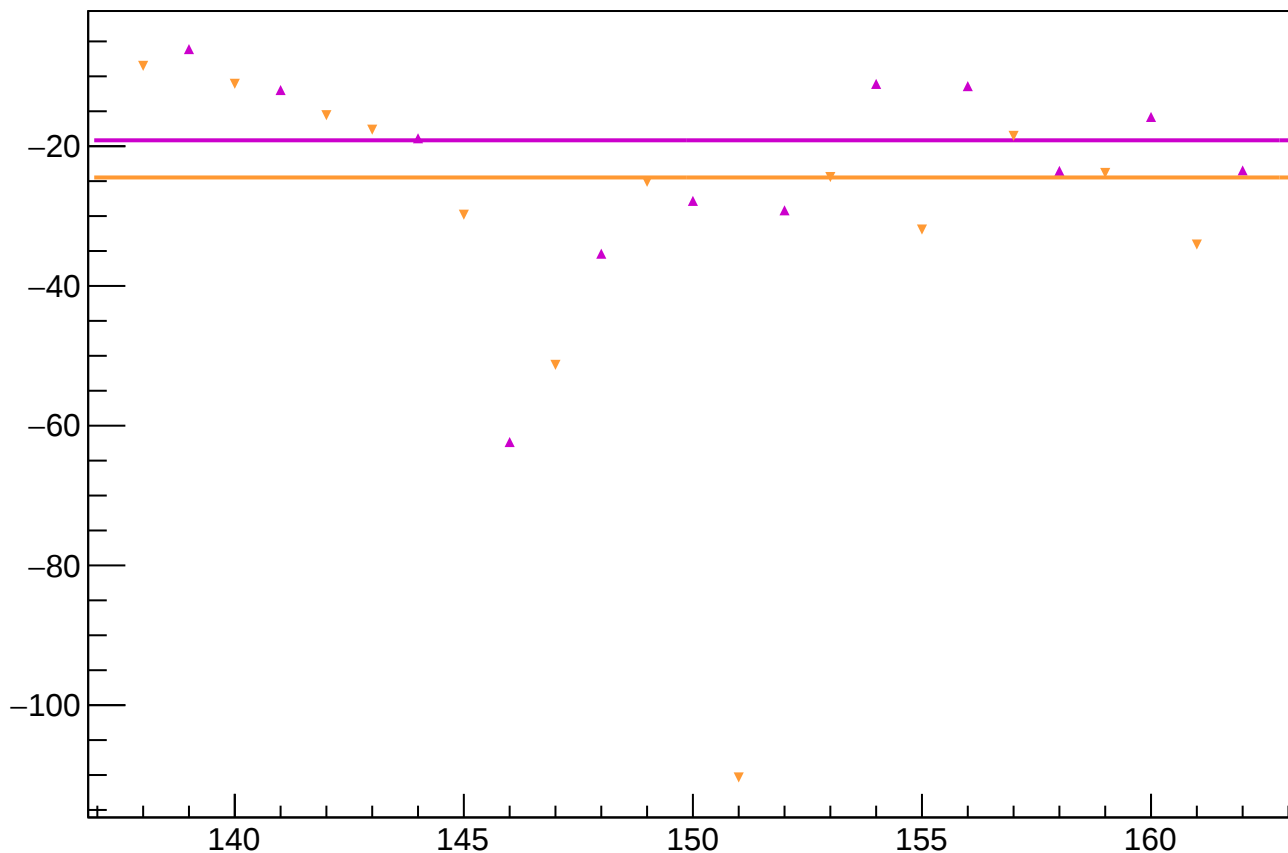


Right In:  $0.201 \pm 0.004$   $\chi^2/\text{NDF}$ : 691.3/16  
 Left Out:  $0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 3566.3/12  
 Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1083.1/18  
 Left In:  $0.069 \pm 0.002$   $\chi^2/\text{NDF}$ : 2106.4/11

Left:  $0.094 \pm 0.002$   $\chi^2/\text{NDF}$ : 6062.3/24  
 Right:  $0.208 \pm 0.003$   $\chi^2/\text{NDF}$ : 1779.7/35  
 In:  $0.096 \pm 0.002$   $\chi^2/\text{NDF}$ : 3616.3/28  
 Out:  $0.162 \pm 0.002$   $\chi^2/\text{NDF}$ : 4946.4/31

All:  $0.124 \pm 0.001$   $\chi^2/\text{NDF}$ : 9104.9/60

reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -24.474+/-0.073  $\chi^2/\text{NDF}$ :52015.0/12

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

Left In: -19.155+/-0.061  $\chi^2/\text{NDF}$ :36359.7/11

Left: -21.346+/-0.047  $\chi^2/\text{NDF}$ : 91479.4/24

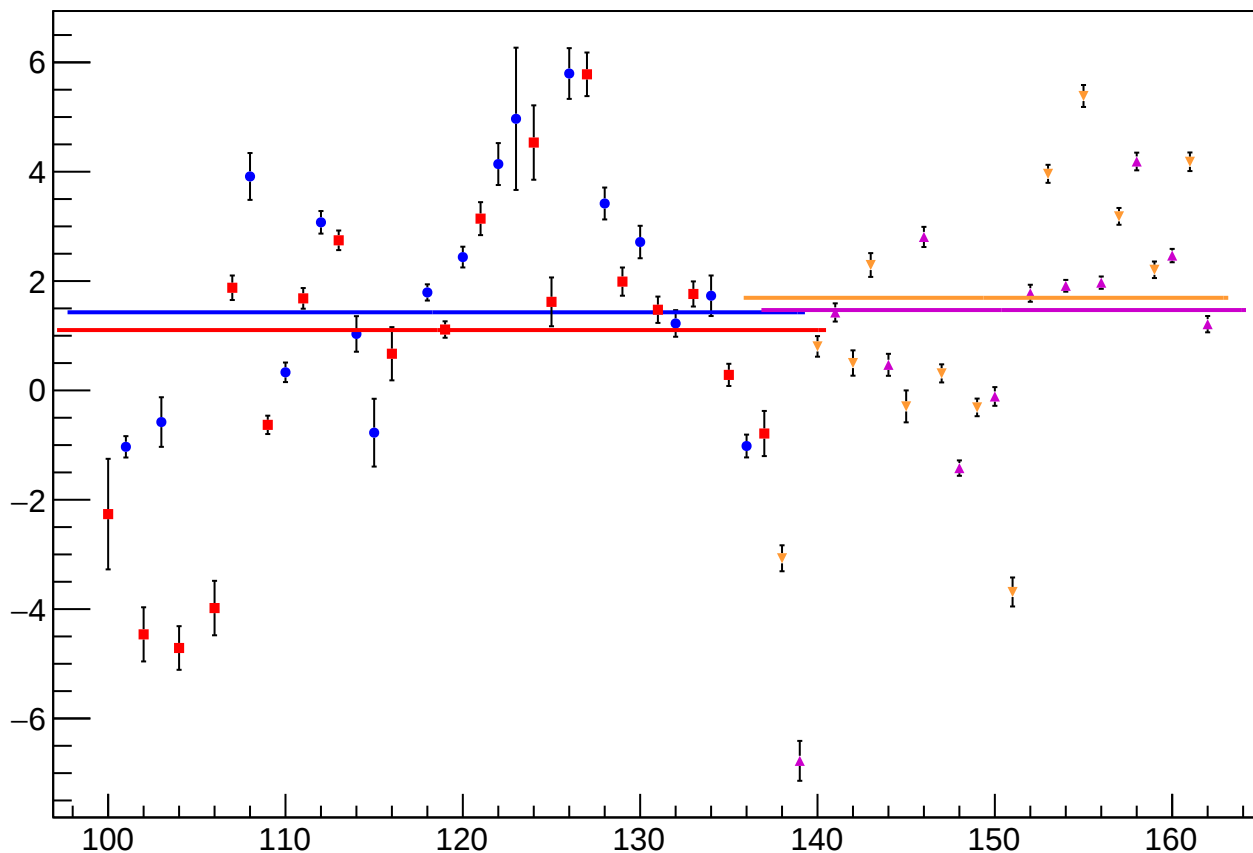
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.155+/-0.061  $\chi^2/\text{NDF}$ :36359.7/11

Out: -24.474+/-0.073  $\chi^2/\text{NDF}$ :52015.0/12

All: -21.346+/-0.047  $\chi^2/\text{NDF}$ : 91479.4/24

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.429+/-0.062  $\chi^2/\text{NDF}$ : 711.4/16

Left Out: 1.694+/-0.052  $\chi^2/\text{NDF}$ :1987.3/12

Right Out: 1.104+/-0.059  $\chi^2/\text{NDF}$ : 936.5/18

Left In: 1.470+/-0.043  $\chi^2/\text{NDF}$ :1487.4/11

Left: 1.561+/-0.033  $\chi^2/\text{NDF}$ : 3485.7/24

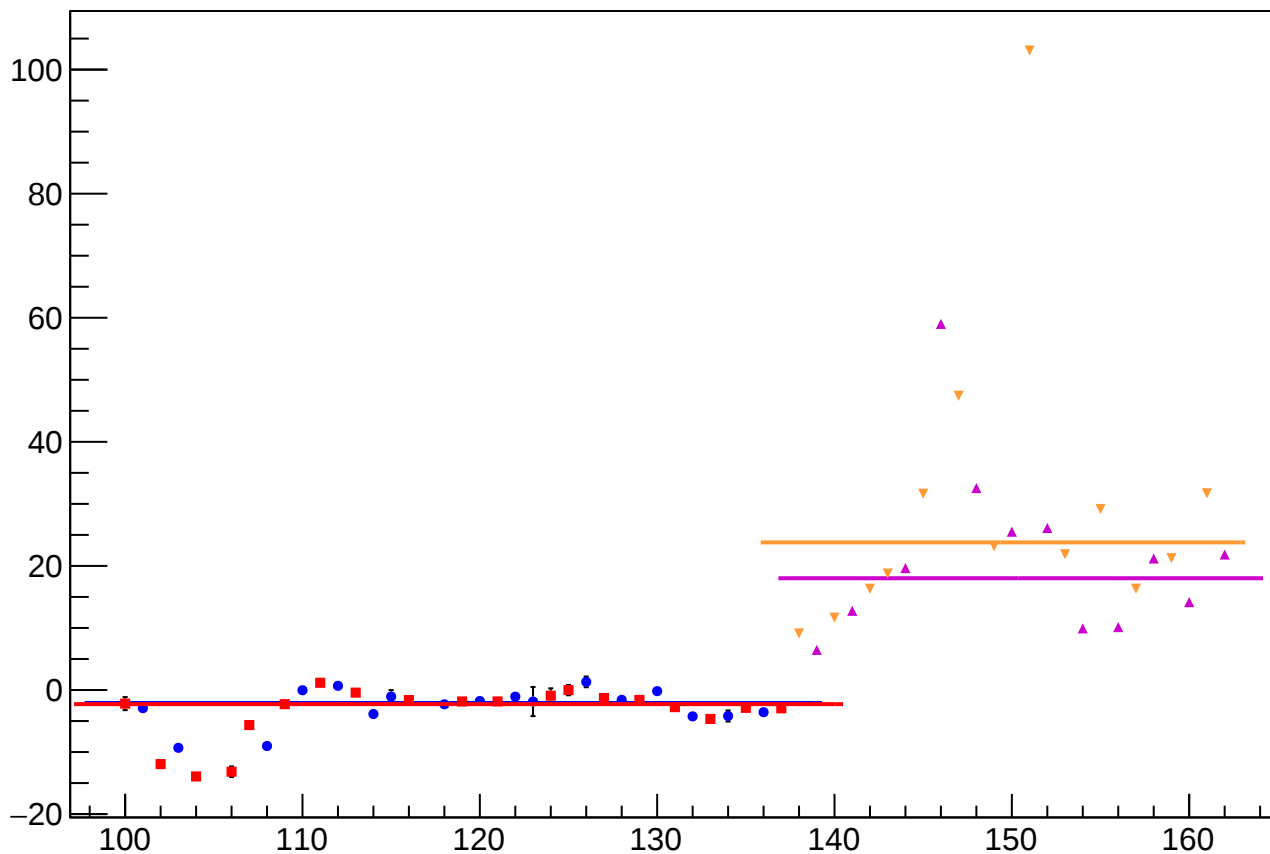
Right: 1.259+/-0.043  $\chi^2/\text{NDF}$ : 1662.3/35

In: 1.457+/-0.035  $\chi^2/\text{NDF}$ :2199.1/28

Out: 1.437+/-0.039  $\chi^2/\text{NDF}$ :2979.7/31

All: 1.448+/-0.026  $\chi^2/\text{NDF}$ : 5179.0/60

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.094 \pm 0.113$   $\chi^2/\text{NDF}$ : 486.5/16

Left Out:  $23.794 \pm 0.072$   $\chi^2/\text{NDF}$ : 46671.7/12

Right Out:  $-2.278 \pm 0.101$   $\chi^2/\text{NDF}$ : 918.6/18

Left In:  $18.014 \pm 0.059$   $\chi^2/\text{NDF}$ : 34142.5/11

Left:  $20.342 \pm 0.045$   $\chi^2/\text{NDF}$ : 84707.0/24

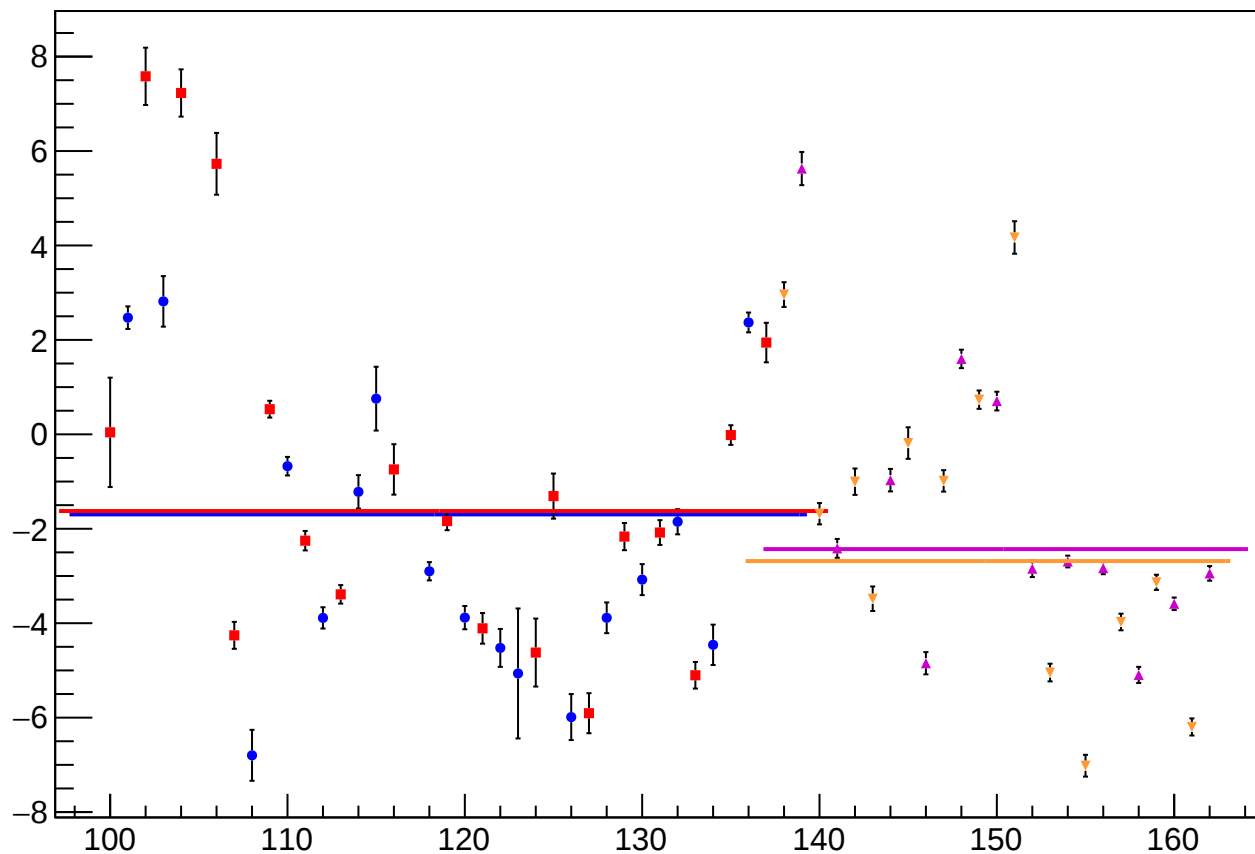
Right:  $-2.196 \pm 0.075$   $\chi^2/\text{NDF}$ : 1406.6/35

In:  $13.707 \pm 0.052$   $\chi^2/\text{NDF}$ : 59693.5/28

Out:  $15.075 \pm 0.058$   $\chi^2/\text{NDF}$ : 91933.6/31

All:  $14.313 \pm 0.039$   $\chi^2/\text{NDF}$ : 151932.3/60

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.696 \pm 0.072$   $\chi^2/\text{NDF}: 1333.3/16$

Left Out:  $-2.684 \pm 0.060$   $\chi^2/\text{NDF}: 2297.5/12$

Right Out:  $-1.624 \pm 0.067$   $\chi^2/\text{NDF}: 1467.3/18$

Left In:  $-2.431 \pm 0.049$   $\chi^2/\text{NDF}: 1695.7/11$

Left:  $-2.532 \pm 0.038$   $\chi^2/\text{NDF}: 4003.7/24$

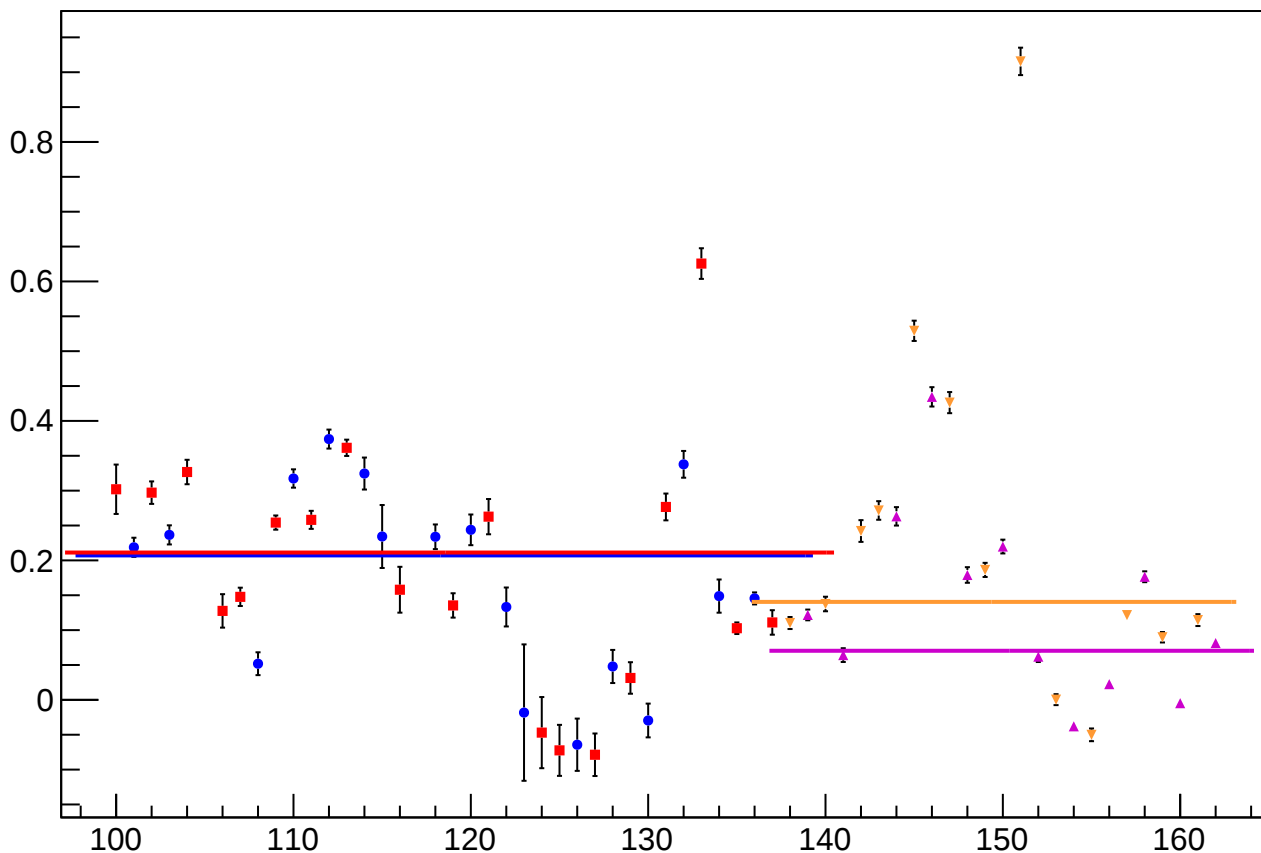
Right:  $-1.658 \pm 0.049$   $\chi^2/\text{NDF}: 2801.2/35$

In:  $-2.194 \pm 0.041$   $\chi^2/\text{NDF}: 3100.5/28$

Out:  $-2.208 \pm 0.045$   $\chi^2/\text{NDF}: 3902.7/31$

All:  $-2.200 \pm 0.030$   $\chi^2/\text{NDF}: 7003.3/60$

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.207 $\pm$ 0.004  $\chi^2$ /NDF: 656.3/16

Left Out: 0.140 $\pm$ 0.003  $\chi^2$ /NDF:3613.4/12

Right Out: 0.211 $\pm$ 0.004  $\chi^2$ /NDF: 1145.7/18

Left In: 0.070 $\pm$ 0.002  $\chi^2$ /NDF:2145.5/11

Left: 0.098 $\pm$ 0.002  $\chi^2$ /NDF: 6167.9/24

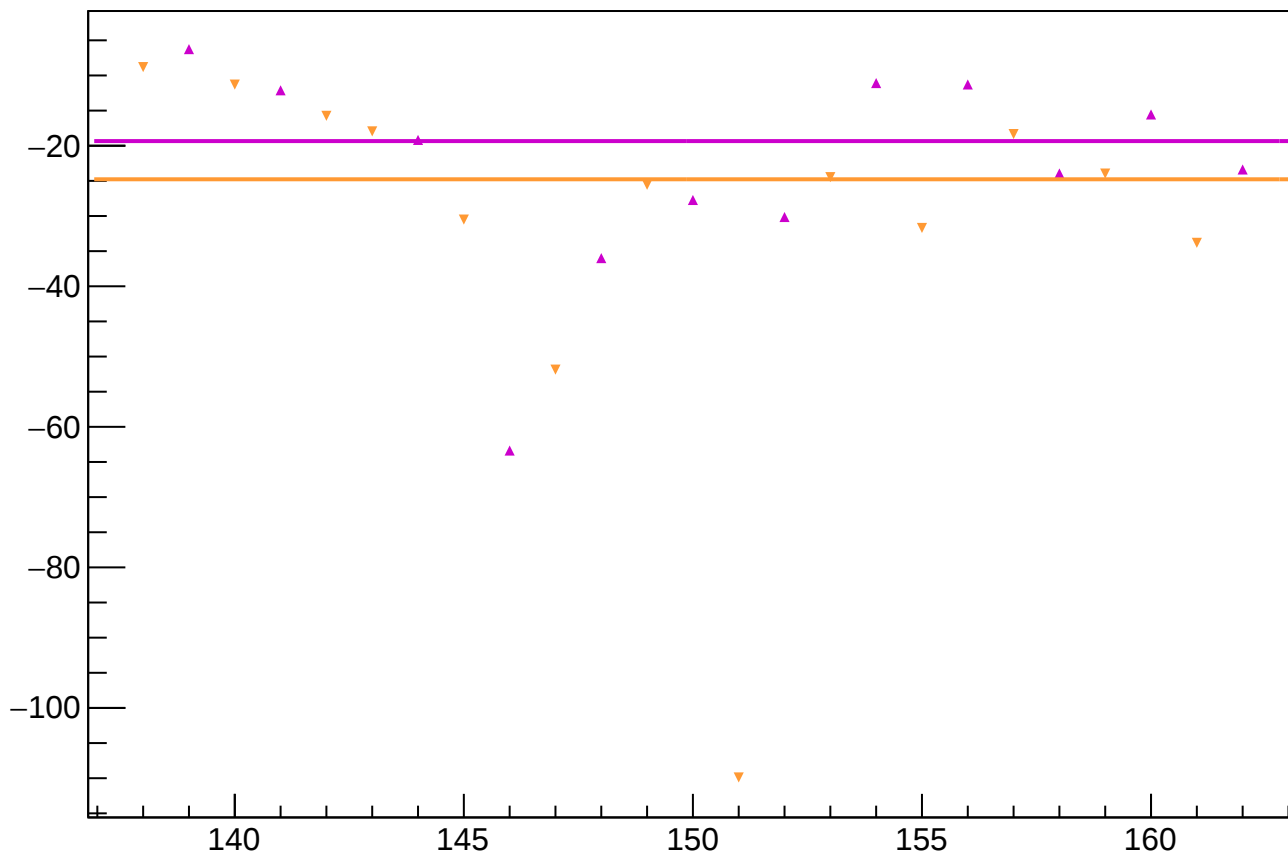
Right: 0.209 $\pm$ 0.003  $\chi^2$ /NDF: 1802.5/35

In: 0.099 $\pm$ 0.002  $\chi^2$ /NDF:3640.2/28

Out: 0.165 $\pm$ 0.002  $\chi^2$ /NDF:4992.5/31

All: 0.127 $\pm$ 0.001  $\chi^2$ /NDF: 9139.3/60

reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -24.775+/-0.074  $\chi^2/\text{NDF}$ :51106.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.339+/-0.062  $\chi^2/\text{NDF}$ :36654.5/11

Left: -21.586+/-0.048  $\chi^2/\text{NDF}$ : 90916.8/24

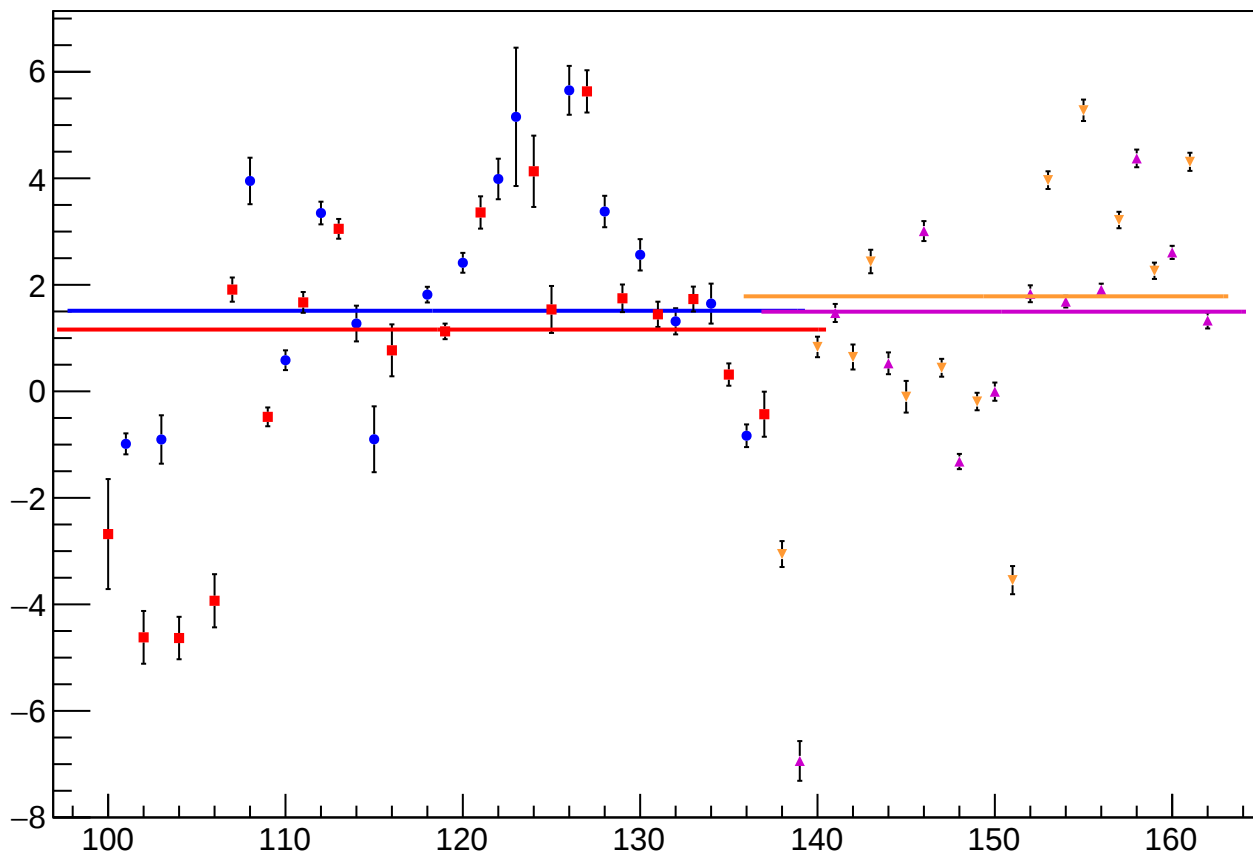
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.339+/-0.062  $\chi^2/\text{NDF}$ :36654.5/11

Out: -24.775+/-0.074  $\chi^2/\text{NDF}$ :51106.4/12

All: -21.586+/-0.048  $\chi^2/\text{NDF}$ : 90916.8/24

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.513 $\pm$ 0.063  $\chi^2$ /NDF: 669.7/16

Left Out: 1.784 $\pm$ 0.053  $\chi^2$ /NDF:1897.7/12

Right Out: 1.160 $\pm$ 0.060  $\chi^2$ /NDF: 917.0/18

Left In: 1.496 $\pm$ 0.044  $\chi^2$ /NDF:1467.0/11

Left: 1.614 $\pm$ 0.034  $\chi^2$ /NDF: 3382.4/24

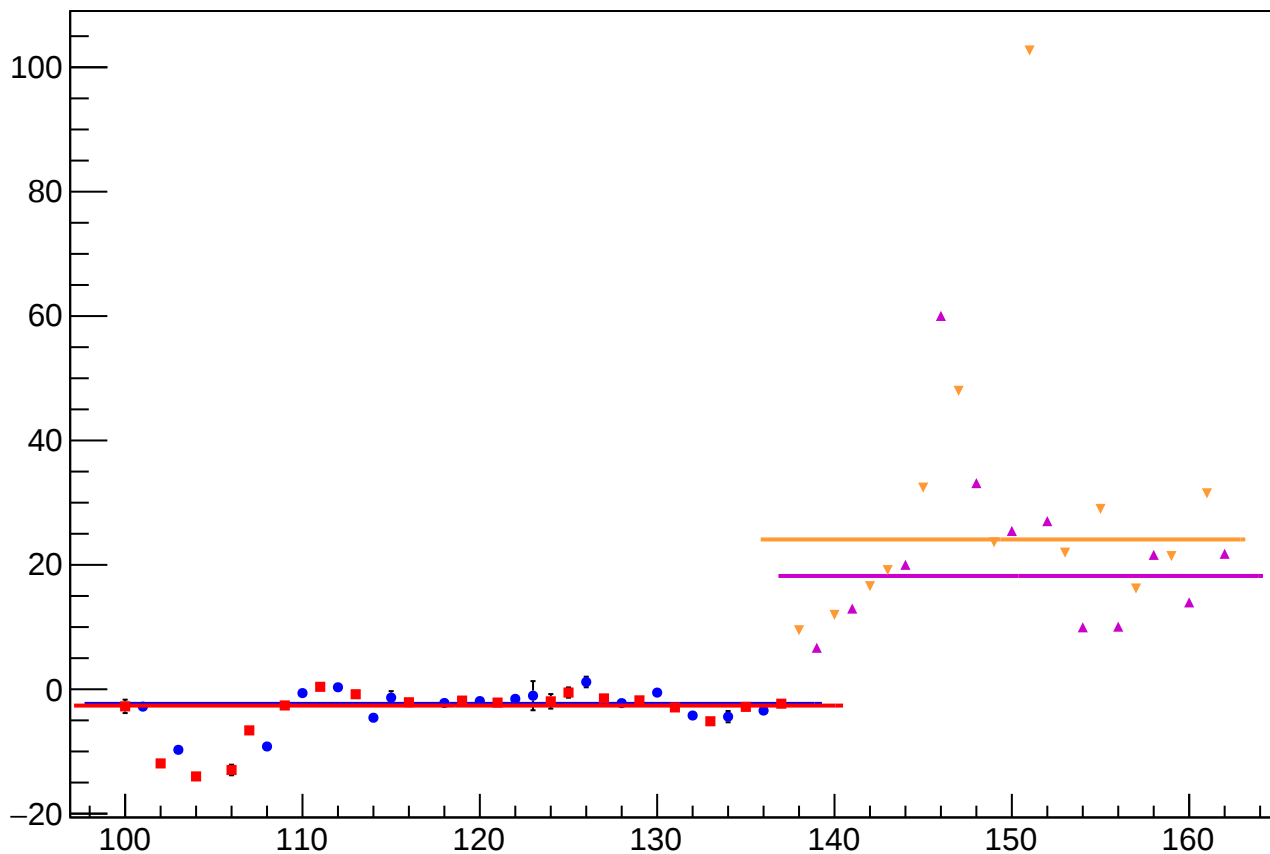
Right: 1.329 $\pm$ 0.043  $\chi^2$ /NDF: 1603.3/35

In: 1.501 $\pm$ 0.036  $\chi^2$ /NDF:2136.7/28

Out: 1.513 $\pm$ 0.040  $\chi^2$ /NDF:2875.7/31

All: 1.507 $\pm$ 0.027  $\chi^2$ /NDF: 5012.5/60

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.350 \pm 0.114$   $\chi^2/\text{NDF}: 439.7/16$

Left Out:  $24.085 \pm 0.072$   $\chi^2/\text{NDF}: 45994.1/12$

Right Out:  $-2.624 \pm 0.103$   $\chi^2/\text{NDF}: 840.4/18$

Left In:  $18.217 \pm 0.060$   $\chi^2/\text{NDF}: 34478.1/11$

Left:  $20.591 \pm 0.046$   $\chi^2/\text{NDF}: 84381.5/24$

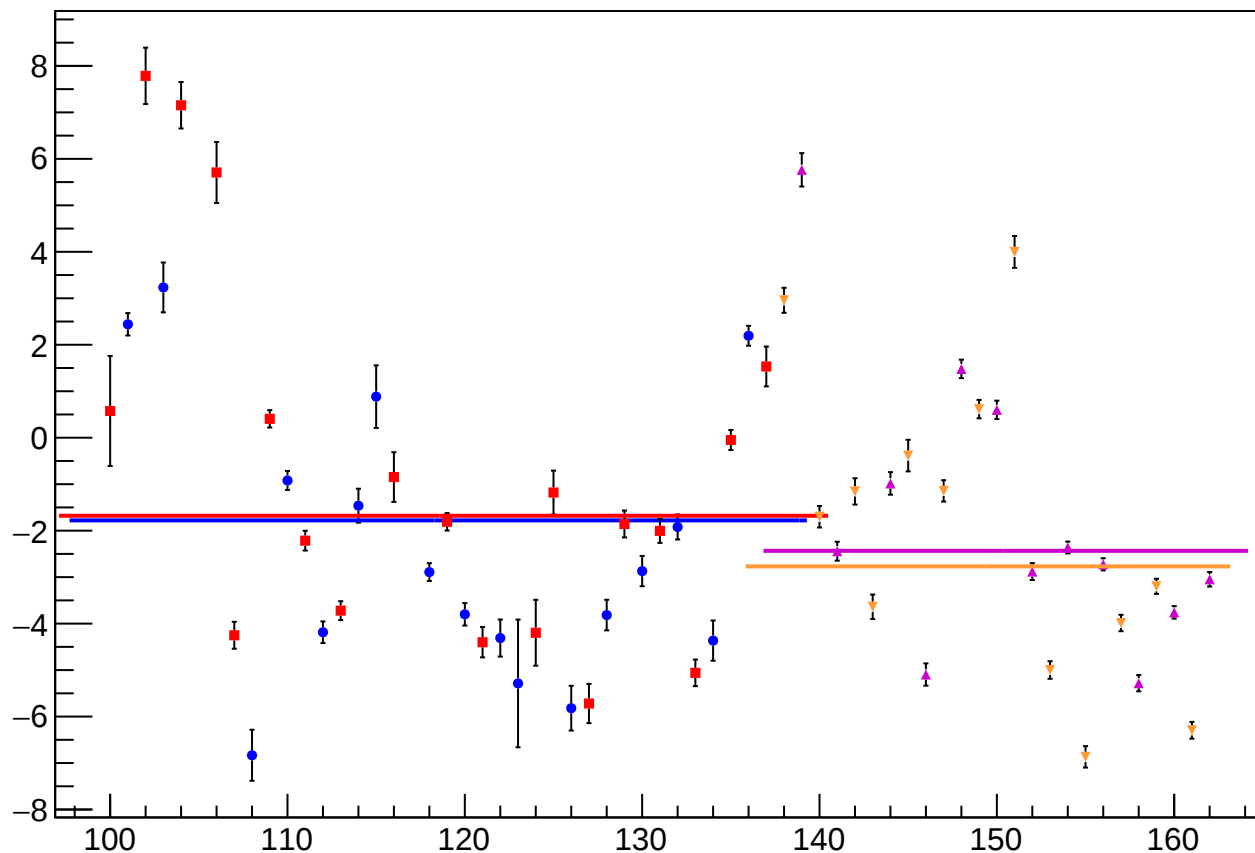
Right:  $-2.501 \pm 0.077$   $\chi^2/\text{NDF}: 1283.3/35$

In:  $13.808 \pm 0.053$   $\chi^2/\text{NDF}: 60354.8/28$

Out:  $15.276 \pm 0.059$   $\chi^2/\text{NDF}: 91696.4/31$

All:  $14.459 \pm 0.039$   $\chi^2/\text{NDF}: 152392.2/60$

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.779 \pm 0.072$   $\chi^2/\text{NDF}: 1272.1/16$

Left Out:  $-2.769 \pm 0.061$   $\chi^2/\text{NDF}: 2187.1/12$

Right Out:  $-1.679 \pm 0.068$   $\chi^2/\text{NDF}: 1429.6/18$

Left In:  $-2.434 \pm 0.050$   $\chi^2/\text{NDF}: 1692.9/11$

Left:  $-2.569 \pm 0.039$   $\chi^2/\text{NDF}: 3897.9/24$

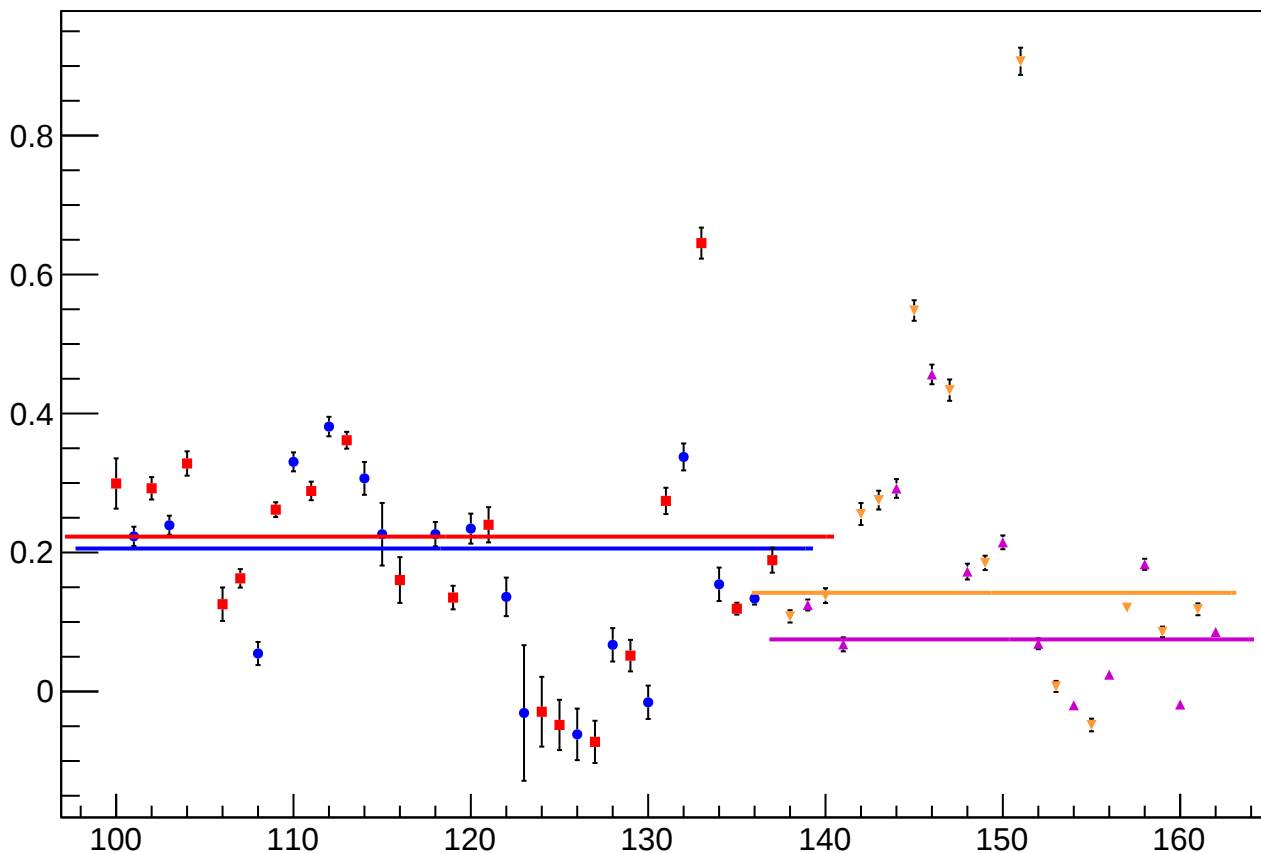
Right:  $-1.726 \pm 0.050$   $\chi^2/\text{NDF}: 2702.6/35$

In:  $-2.221 \pm 0.041$   $\chi^2/\text{NDF}: 3020.4/28$

Out:  $-2.282 \pm 0.045$   $\chi^2/\text{NDF}: 3758.8/31$

All:  $-2.249 \pm 0.031$   $\chi^2/\text{NDF}: 6780.1/60$

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.206 $\pm$ 0.004  $\chi^2$ /NDF: 651.8/16  
 Left Out: 0.142 $\pm$ 0.003  $\chi^2$ /NDF:3618.0/12  
 Right Out: 0.223 $\pm$ 0.004  $\chi^2$ /NDF: 1042.2/18  
 Left In: 0.075 $\pm$ 0.002  $\chi^2$ /NDF:2143.7/11

Left: 0.101 $\pm$ 0.002  $\chi^2$ /NDF: 6126.6/24  
 Right: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 1702.9/35  
 In: 0.102 $\pm$ 0.002  $\chi^2$ /NDF:3541.5/28  
 Out: 0.169 $\pm$ 0.002  $\chi^2$ /NDF:4954.3/31  
 All: 0.131 $\pm$ 0.001  $\chi^2$ /NDF: 9005.8/60