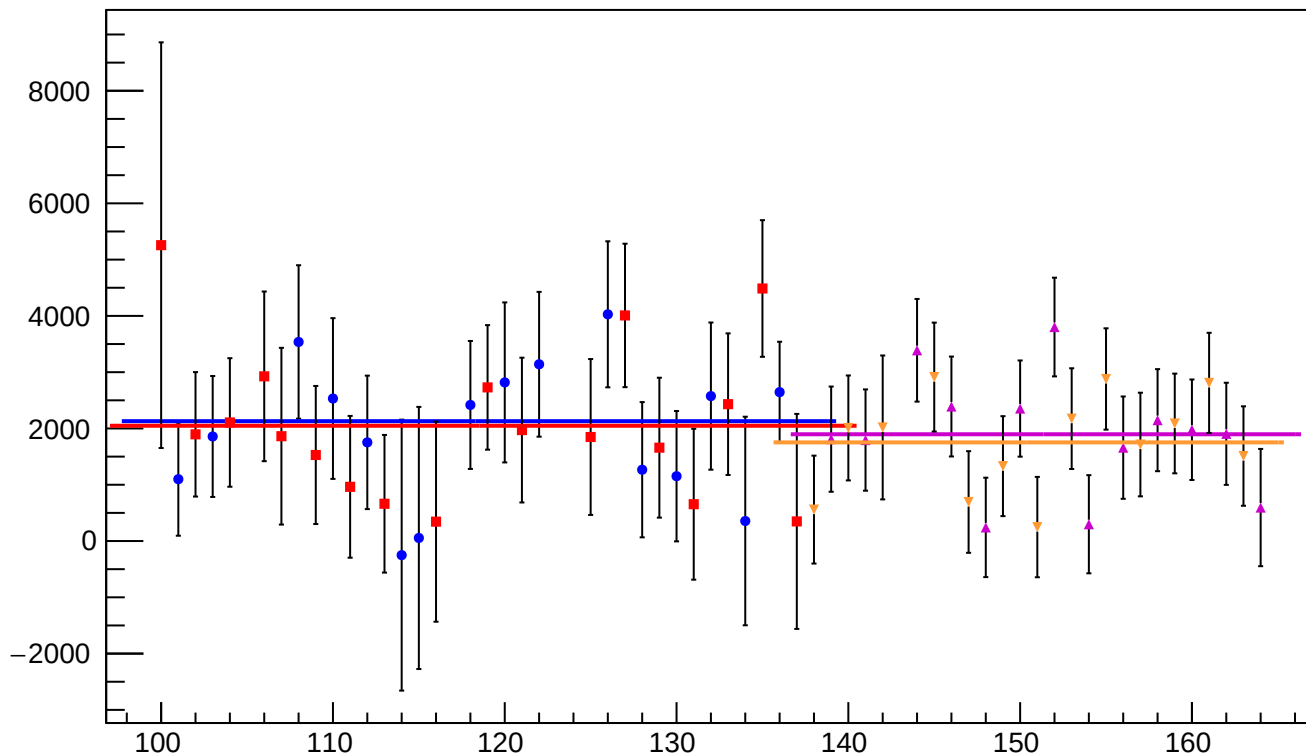


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2129.586+/-316.501

Left Out: 1752.573+/-256.887

Right Out: 2048.278+/-314.118

Left In: 1896.975+/-250.499

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

$\chi^2/\text{NDF}$ : 11.0/12

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

$\chi^2/\text{NDF}$ : 16.6/12

Left: 1826.592+/-179.346

Right: 2088.625+/-222.953

In: 1986.565+/-196.422

Out: 1871.083+/-198.857

All: 1929.535+/-139.744

$\chi^2/\text{NDF}$ : 27.7/25

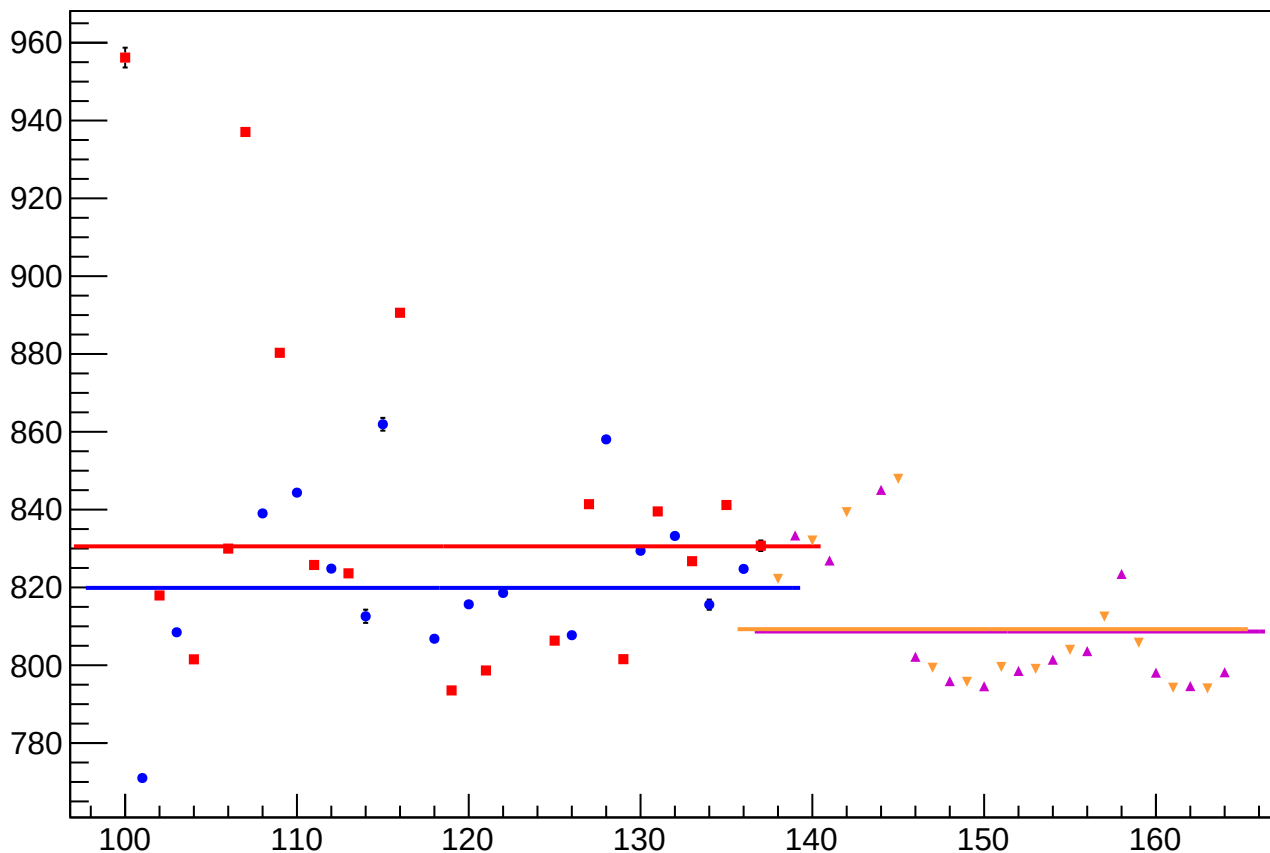
$\chi^2/\text{NDF}$ : 23.0/33

$\chi^2/\text{NDF}$ : 26.7/28

$\chi^2/\text{NDF}$ : 24.7/30

$\chi^2/\text{NDF}$ : 51.6/59

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



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

Left Out: 809.269 $\pm$ 0.182  $\chi^2/\text{NDF}$ :8352.7/12

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

Left In: 808.666 $\pm$ 0.177  $\chi^2/\text{NDF}$ :8429.5/12

Left: 808.960 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 16787.9/25

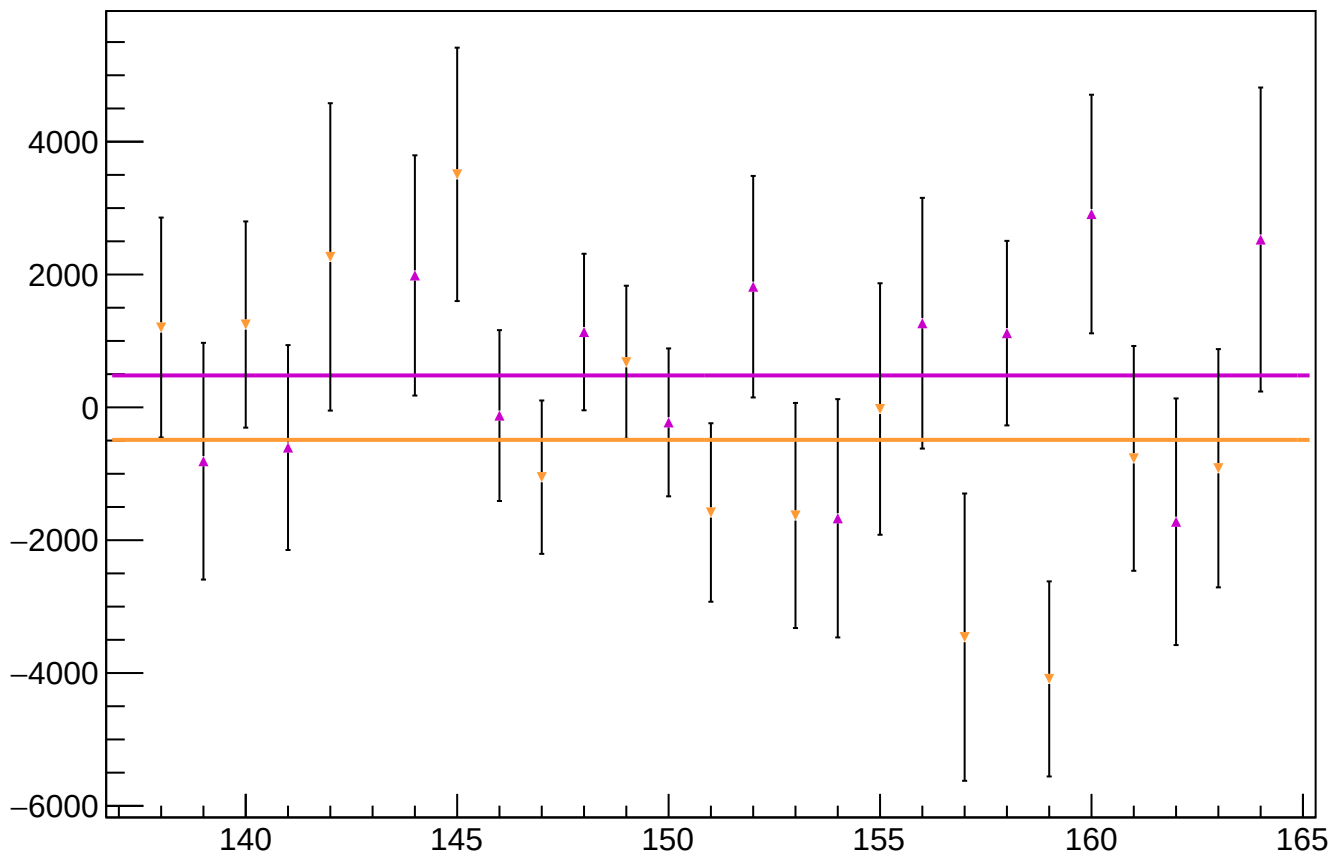
Right: 825.261 $\pm$ 0.158  $\chi^2/\text{NDF}$ : 35113.5/33

In: 812.986 $\pm$ 0.139  $\chi^2/\text{NDF}$ :19511.8/28

Out: 817.802 $\pm$ 0.141  $\chi^2/\text{NDF}$ :38287.0/30

All: 815.364 $\pm$ 0.099  $\chi^2/\text{NDF}$ : 58392.4/59

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



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

Left Out: -489.148+/-435.920  $\chi^2/\text{NDF}$ :18.5/12

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

Left In: 480.641+/-429.049  $\chi^2/\text{NDF}$ :9.1/12

Left: 3.451+/-305.784  $\chi^2/\text{NDF}$ : 30.2/25

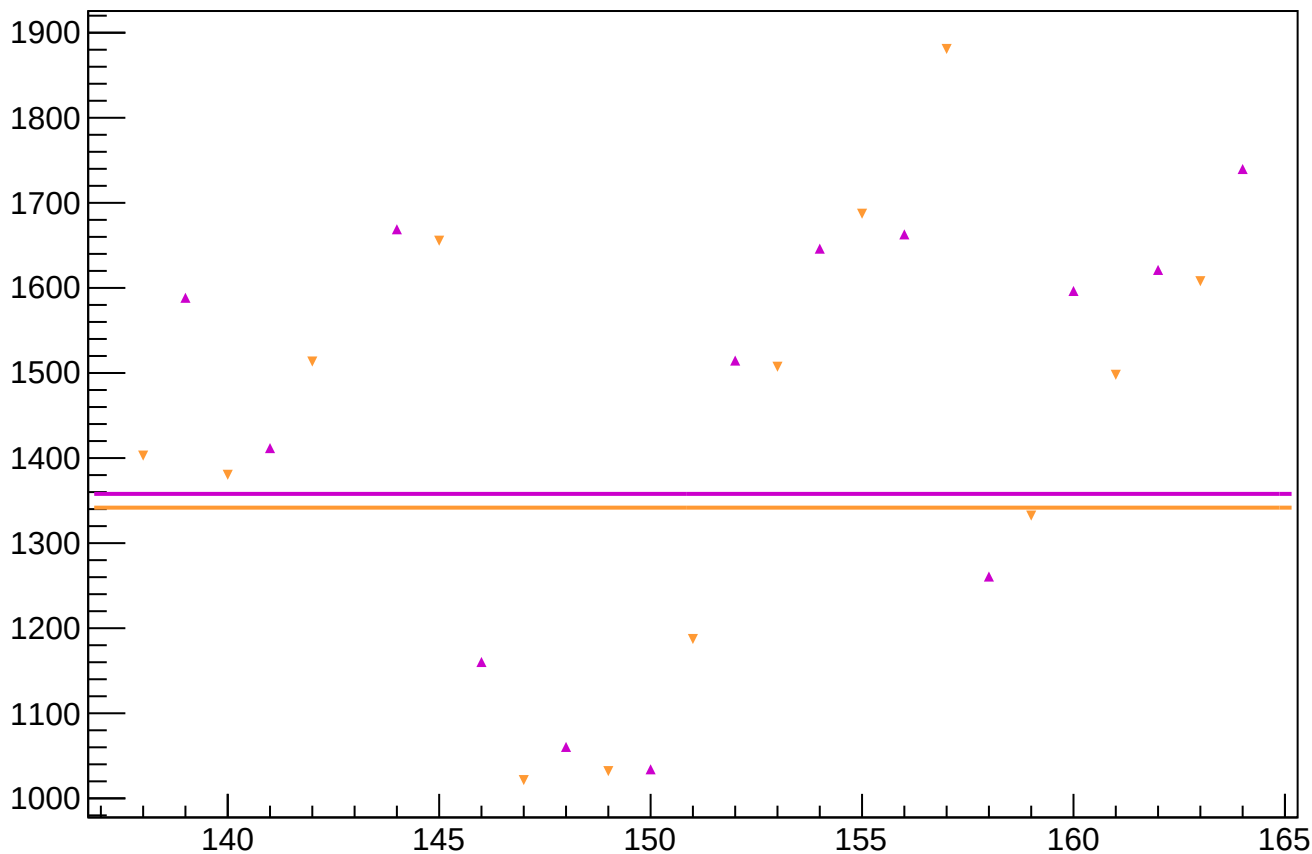
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 480.641+/-429.049  $\chi^2/\text{NDF}$ :9.1/12

Out: -489.148+/-435.920  $\chi^2/\text{NDF}$ :18.5/12

All: 3.451+/-305.784  $\chi^2/\text{NDF}$ : 30.2/25

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



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

Left Out: 1341.722+/-0.308  $\chi^2/\text{NDF}$ :664925.6/12

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

Left In: 1357.900+/-0.303  $\chi^2/\text{NDF}$ :701290.6/12

Left: 1349.940+/-0.216  $\chi^2/\text{NDF}$ : 1367615.4/25

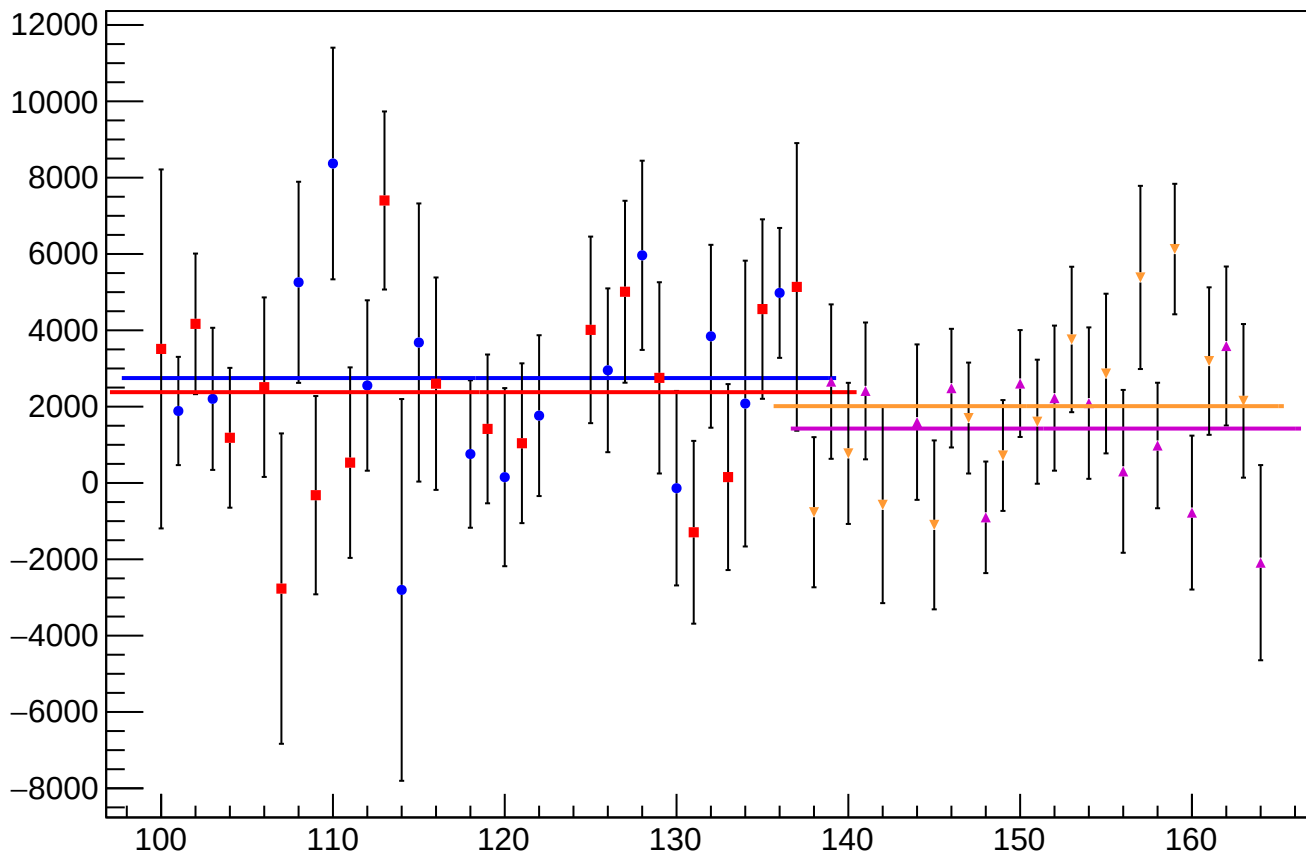
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1357.900+/-0.303  $\chi^2/\text{NDF}$ :701290.6/12

Out: 1341.722+/-0.308  $\chi^2/\text{NDF}$ :664925.6/12

All: 1349.940+/-0.216  $\chi^2/\text{NDF}$ : 1367615.4/25

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



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

Left Out: 2012.919 $\pm$ 515.244  $\chi^2$ /NDF:15.5/12

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

Left In: 1425.443 $\pm$ 503.917  $\chi^2$ /NDF:9.2/12

Left: 1712.653 $\pm$ 360.261  $\chi^2$ /NDF: 25.3/25

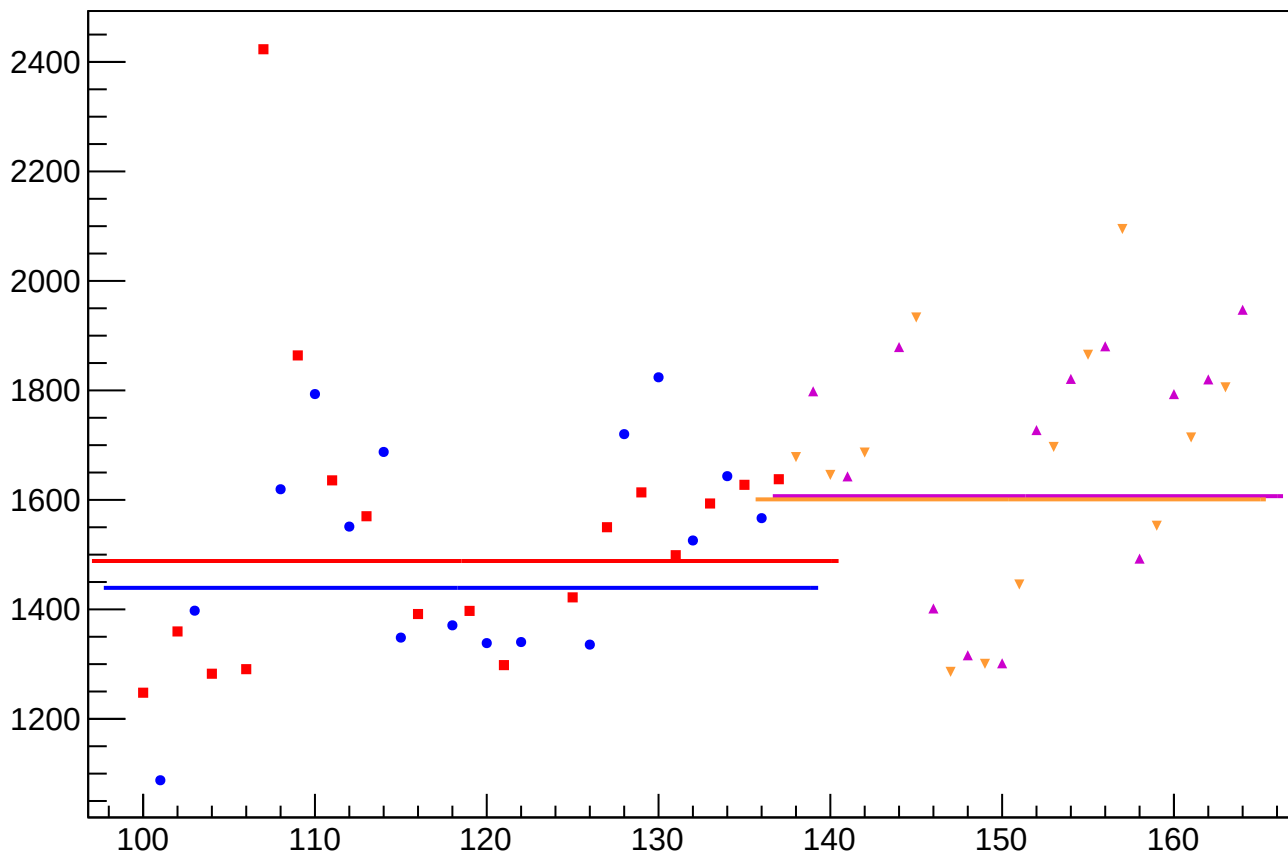
Right: 2566.079 $\pm$ 400.174  $\chi^2$ /NDF: 30.0/33

In: 2014.117 $\pm$ 375.463  $\chi^2$ /NDF:25.8/28

Out: 2178.067 $\pm$ 381.917  $\chi^2$ /NDF:31.9/30

All: 2094.695 $\pm$ 267.745  $\chi^2$ /NDF: 57.8/59

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



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

Left Out: 1600.959 $\pm$ 0.364  $\chi^2$ /NDF: 400231.1/12

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

Left In: 1606.831 $\pm$ 0.356  $\chi^2$ /NDF: 410935.1/12

Left: 1603.960 $\pm$ 0.255  $\chi^2$ /NDF: 811298.9/25

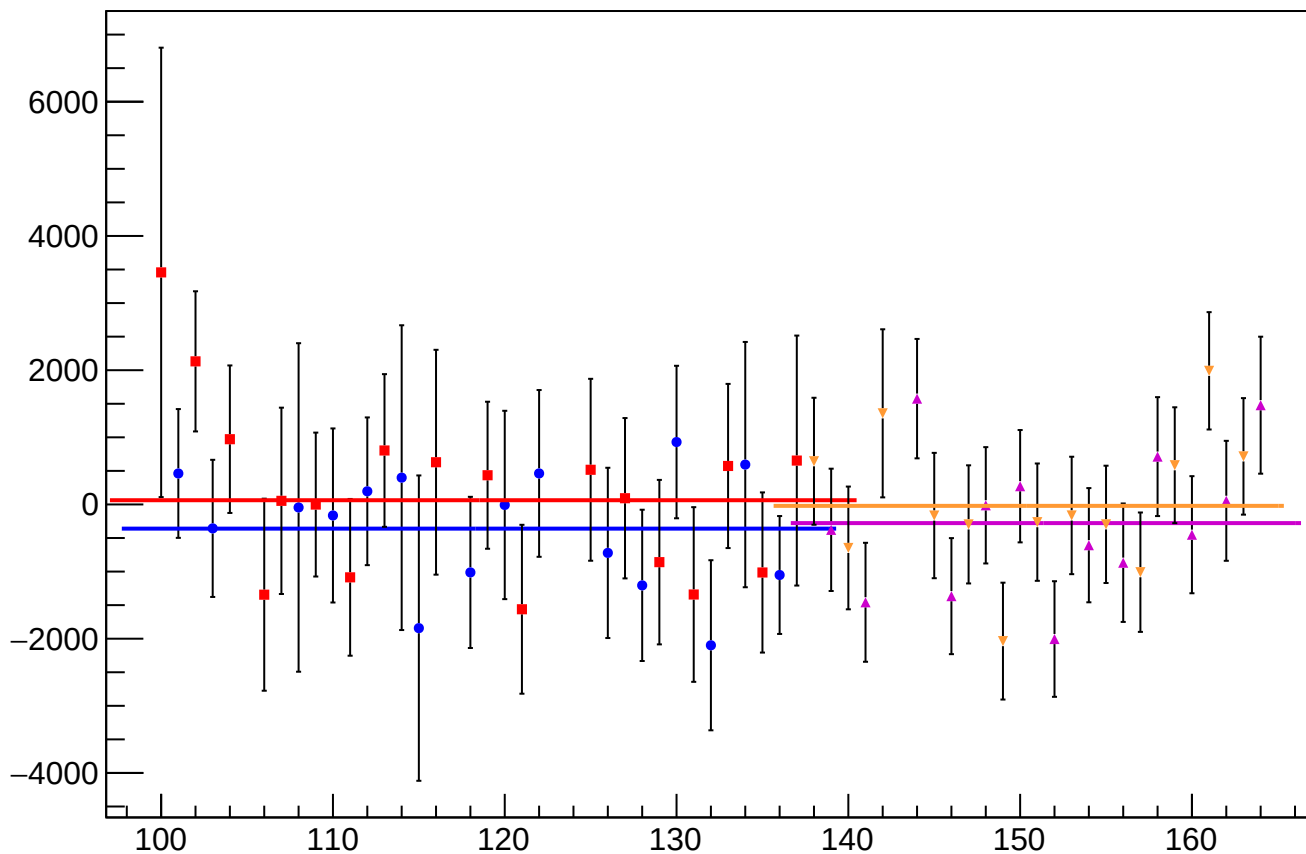
Right: 1463.597 $\pm$ 0.283  $\chi^2$ /NDF: 541697.1/33

In: 1532.320 $\pm$ 0.265  $\chi^2$ /NDF: 787092.8/28

Out: 1550.236 $\pm$ 0.270  $\chi^2$ /NDF: 699574.1/30

All: 1541.125 $\pm$ 0.189  $\chi^2$ /NDF: 1488905.0/59

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



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

Left Out: -20.969 $\pm$ 250.956  $\chi^2$ /NDF:15.6/12

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

Left In: -277.894 $\pm$ 245.027  $\chi^2$ /NDF:17.2/12

Left: -152.502 $\pm$ 175.319  $\chi^2$ /NDF: 33.4/25

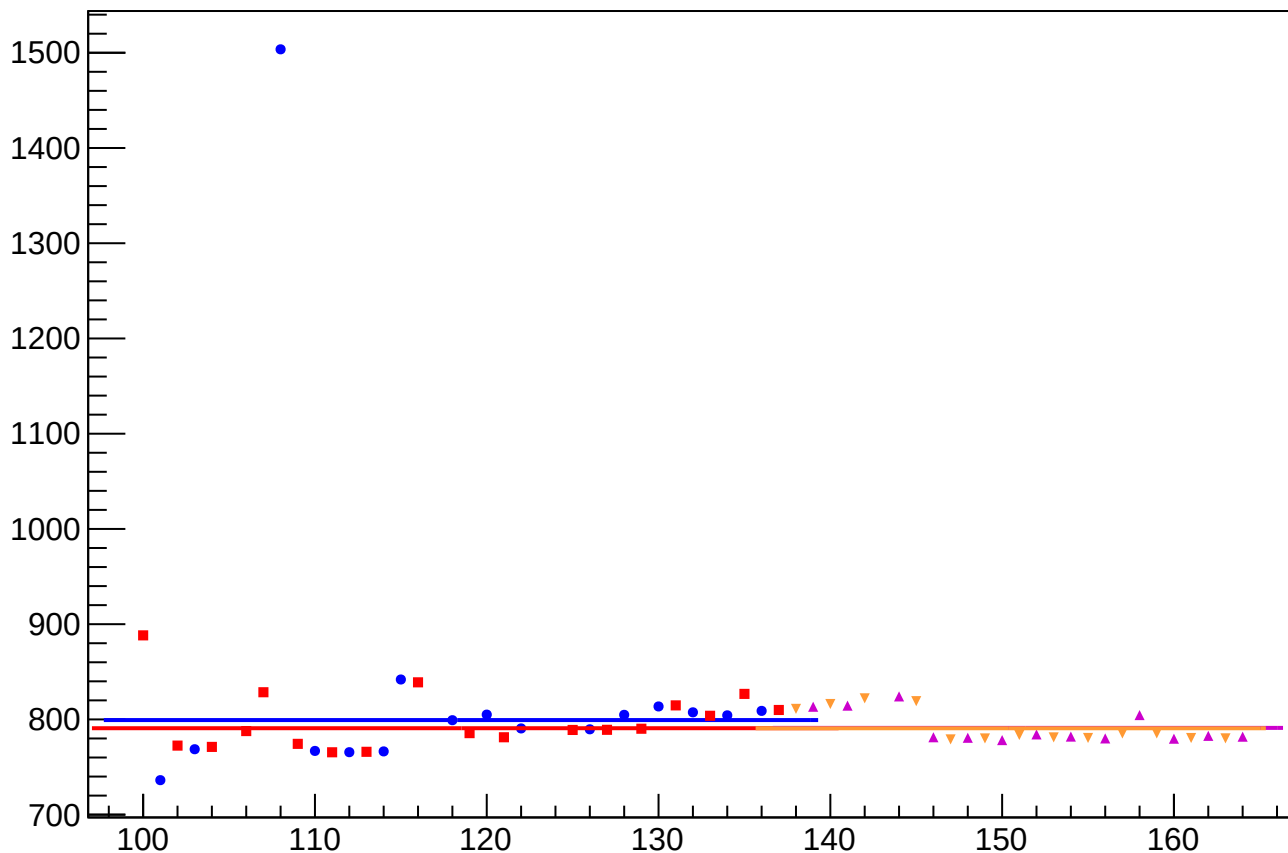
Right: -140.423 $\pm$ 215.314  $\chi^2$ /NDF: 20.9/33

In: -309.471 $\pm$ 192.368  $\chi^2$ /NDF:24.4/28

Out: 13.751 $\pm$ 192.161  $\chi^2$ /NDF:28.5/30

All: -147.687 $\pm$ 135.951  $\chi^2$ /NDF: 54.3/59

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



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

Left Out: 790.709+/-0.177  $\chi^2/\text{NDF}$ : 7617.1/12

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

Left In: 791.103+/-0.173  $\chi^2/\text{NDF}$ : 8164.3/12

Left: 790.911+/-0.124  $\chi^2/\text{NDF}$ : 15783.9/25

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

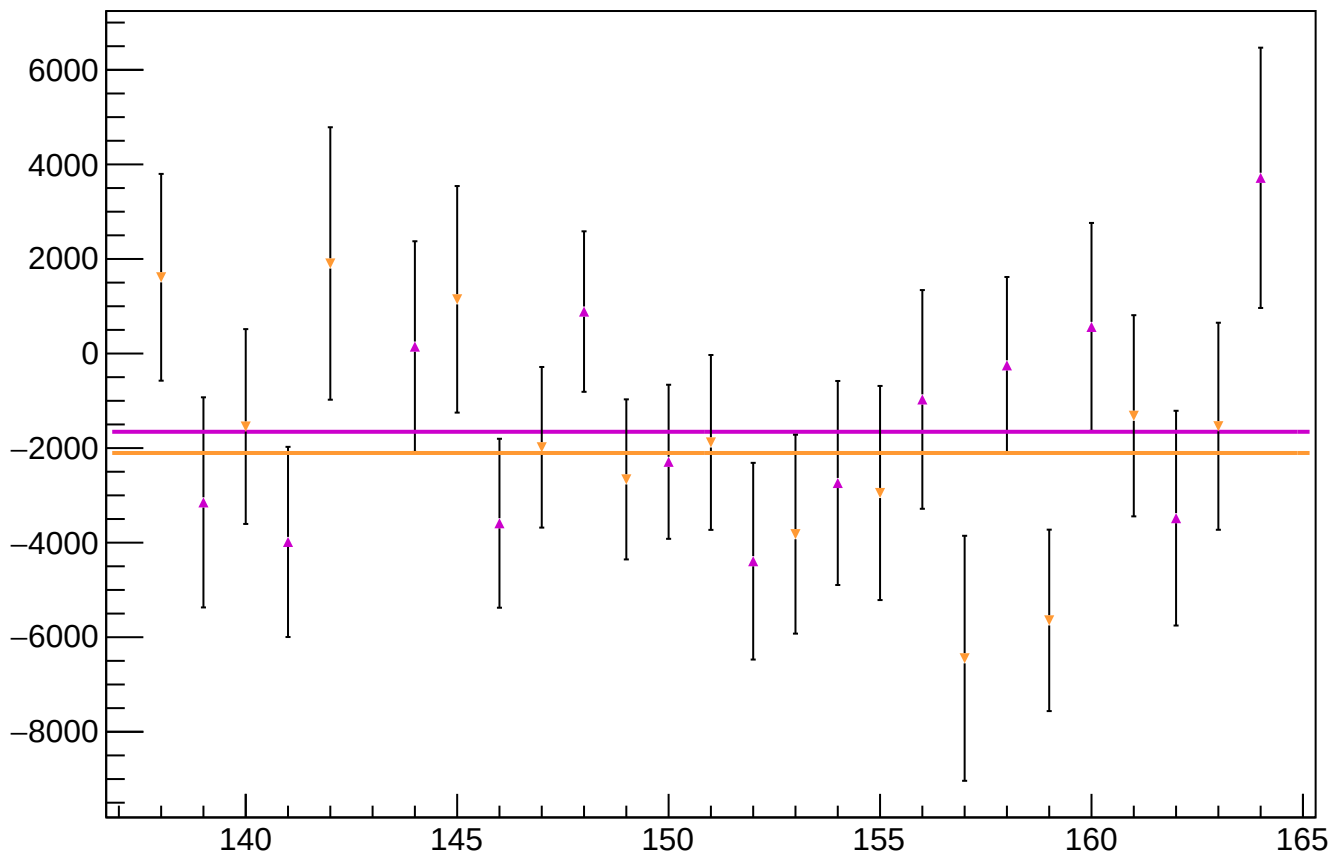
In: 794.256+/-0.136  $\chi^2/\text{NDF}$ : 190331.4/28

Out: 790.730+/-0.136  $\chi^2/\text{NDF}$ : 19172.5/30

All: 792.491+/-0.096  $\chi^2/\text{NDF}$ : 209840.4/59



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



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

Left Out: -2103.444+/-577.510  $\chi^2/\text{NDF}$ :14.1/12

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

Left In: -1655.039+/-564.338  $\chi^2/\text{NDF}$ :14.1/12

Left: -1874.070+/-403.624  $\chi^2/\text{NDF}$ : 28.5/25

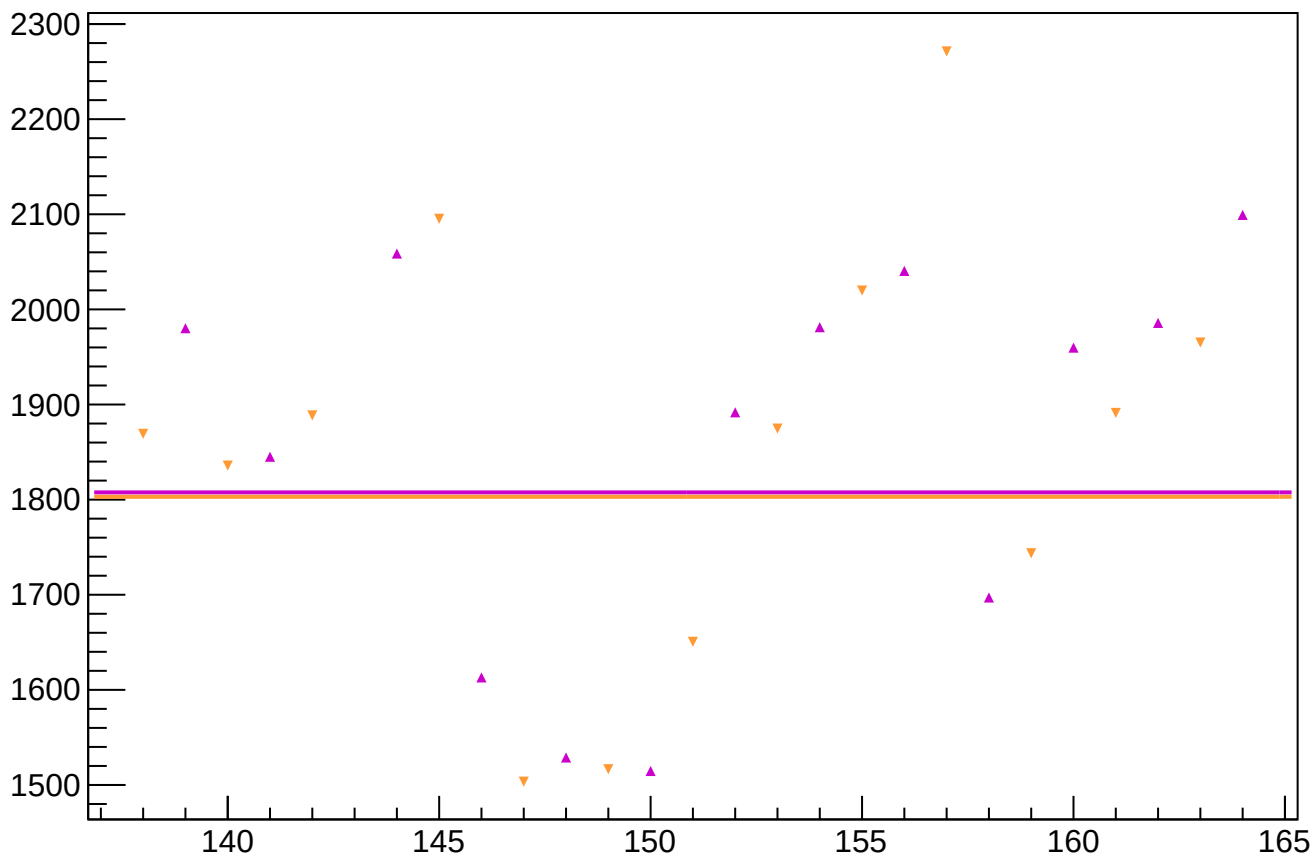
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1655.039+/-564.338  $\chi^2/\text{NDF}$ :14.1/12

Out: -2103.444+/-577.510  $\chi^2/\text{NDF}$ :14.1/12

All: -1874.070+/-403.624  $\chi^2/\text{NDF}$ : 28.5/25

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



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

Left Out: 1802.964+/-0.408  $\chi^2/\text{NDF}$ :269188.9/12

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

Left In: 1807.611+/-0.399  $\chi^2/\text{NDF}$ :268270.7/12

Left: 1805.341+/-0.285  $\chi^2/\text{NDF}$ : 537525.9/25

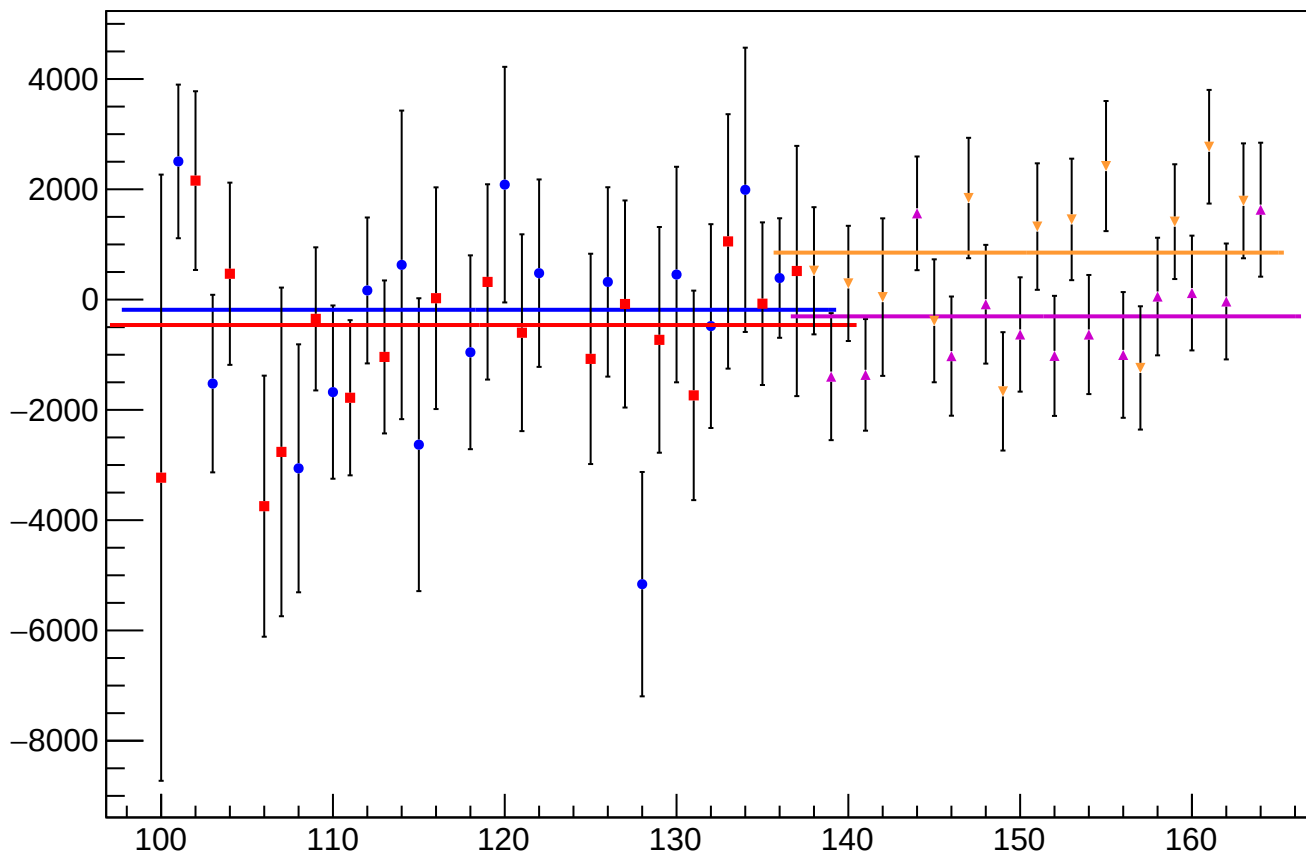
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1807.611+/-0.399  $\chi^2/\text{NDF}$ :268270.7/12

Out: 1802.964+/-0.408  $\chi^2/\text{NDF}$ :269188.9/12

All: 1805.341+/-0.285  $\chi^2/\text{NDF}$ : 537525.9/25

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



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

Left Out: 851.603 $\pm$ 307.744  $\chi^2/\text{NDF}$ : 18.5/12

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

Left In: -304.078 $\pm$ 299.131  $\chi^2/\text{NDF}$ : 9.7/12

Left: 257.363 $\pm$ 214.498  $\chi^2/\text{NDF}$ : 35.5/25

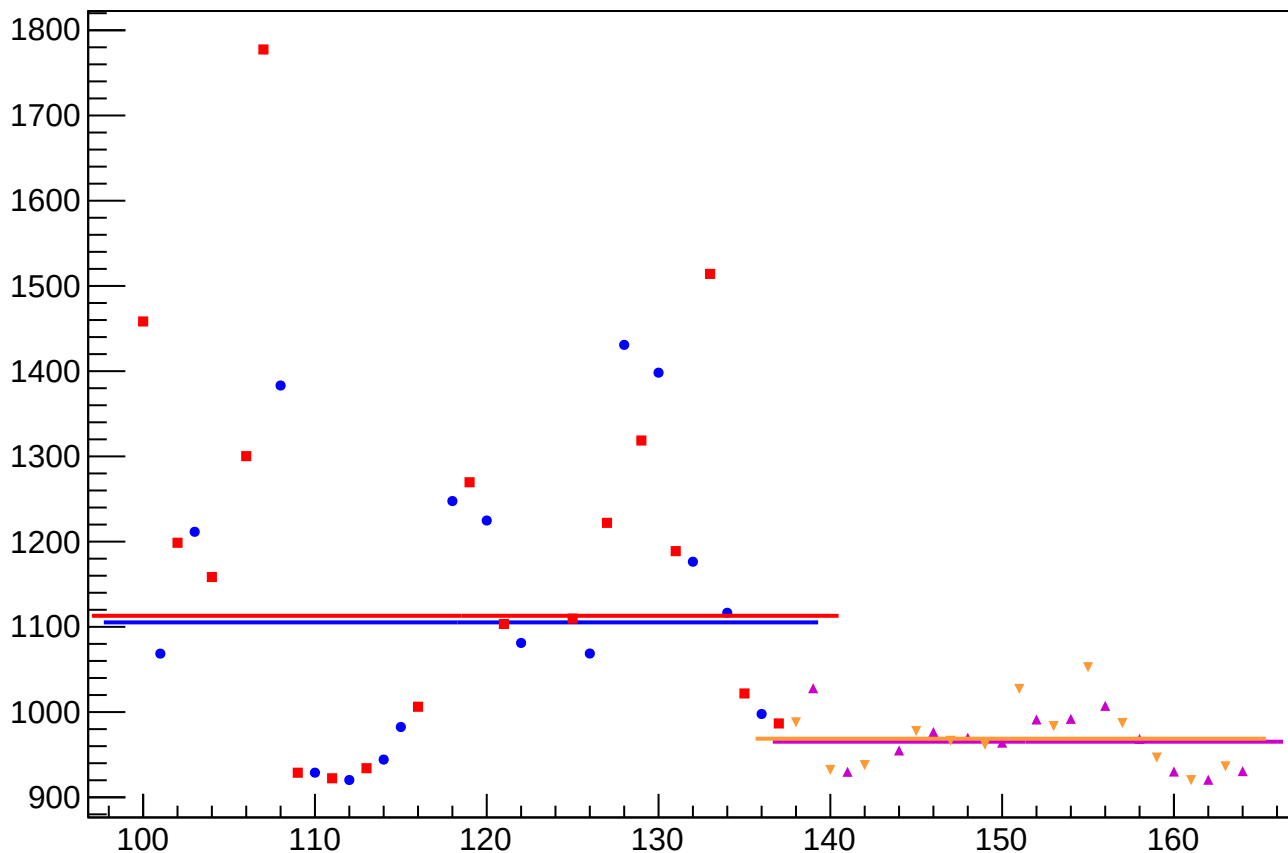
Right: -324.625 $\pm$ 303.483  $\chi^2/\text{NDF}$ : 25.2/33

In: -265.444 $\pm$ 245.835  $\chi^2/\text{NDF}$ : 26.3/28

Out: 402.685 $\pm$ 249.645  $\chi^2/\text{NDF}$ : 33.1/30

All: 63.484 $\pm$ 175.163  $\chi^2/\text{NDF}$ : 63.1/59

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



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

Left Out: 968.772+/-0.218  $\chi^2/\text{NDF}$ : 27680.1/12

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

Left In: 965.251+/-0.212  $\chi^2/\text{NDF}$ : 21443.9/12

Left: 966.961+/-0.152  $\chi^2/\text{NDF}$ : 49258.5/25

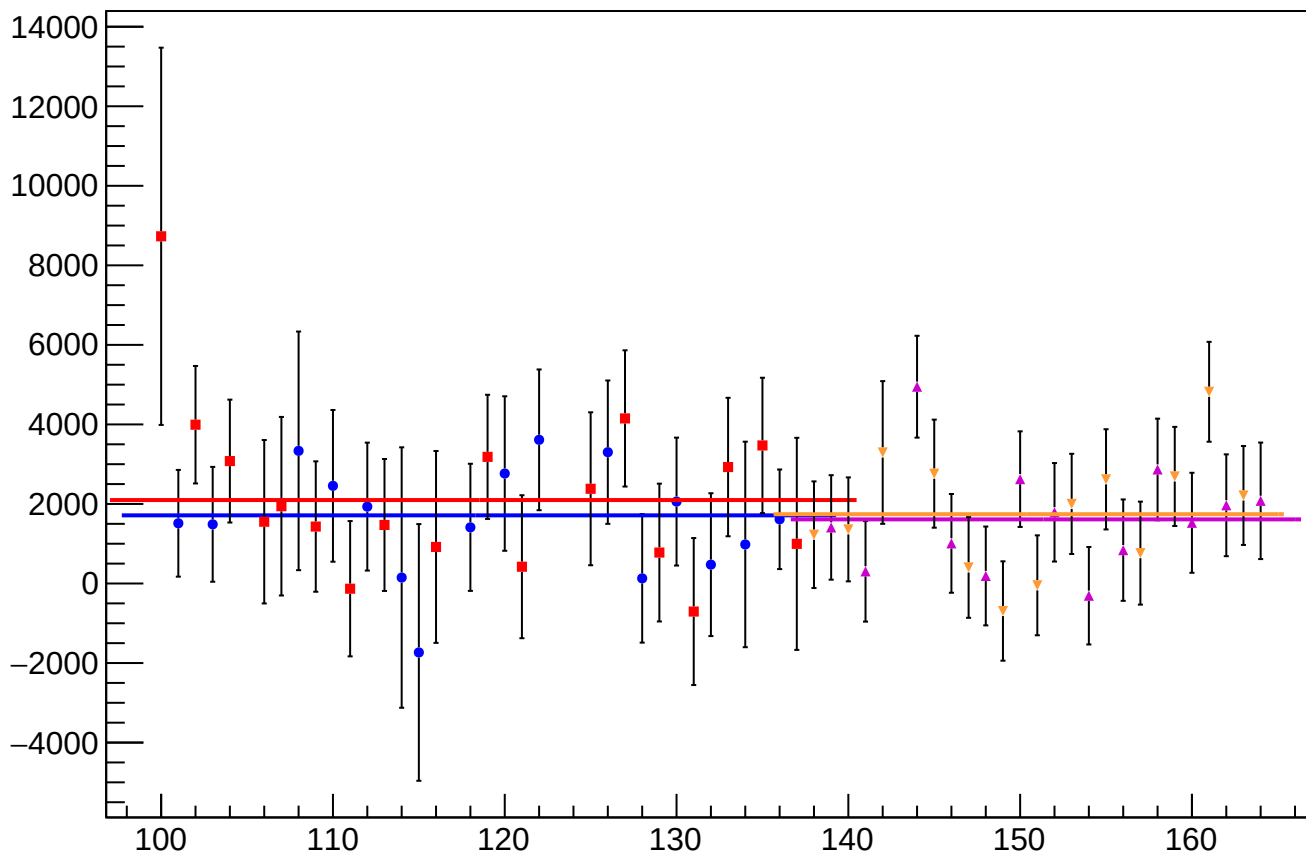
Right: 1109.146+/-0.215  $\chi^2/\text{NDF}$ : 618686.6/33

In: 1010.689+/-0.174  $\chi^2/\text{NDF}$ : 418979.4/28

Out: 1018.080+/-0.177  $\chi^2/\text{NDF}$ : 540832.3/30

All: 1014.328+/-0.124  $\chi^2/\text{NDF}$ : 960701.8/59

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



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

Left Out: 1742.365 $\pm$ 361.052  $\chi^2$ /NDF:16.3/12

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

Left In: 1612.078 $\pm$ 352.281  $\chi^2$ /NDF:14.1/12

Left: 1675.620 $\pm$ 252.144  $\chi^2$ /NDF: 30.5/25

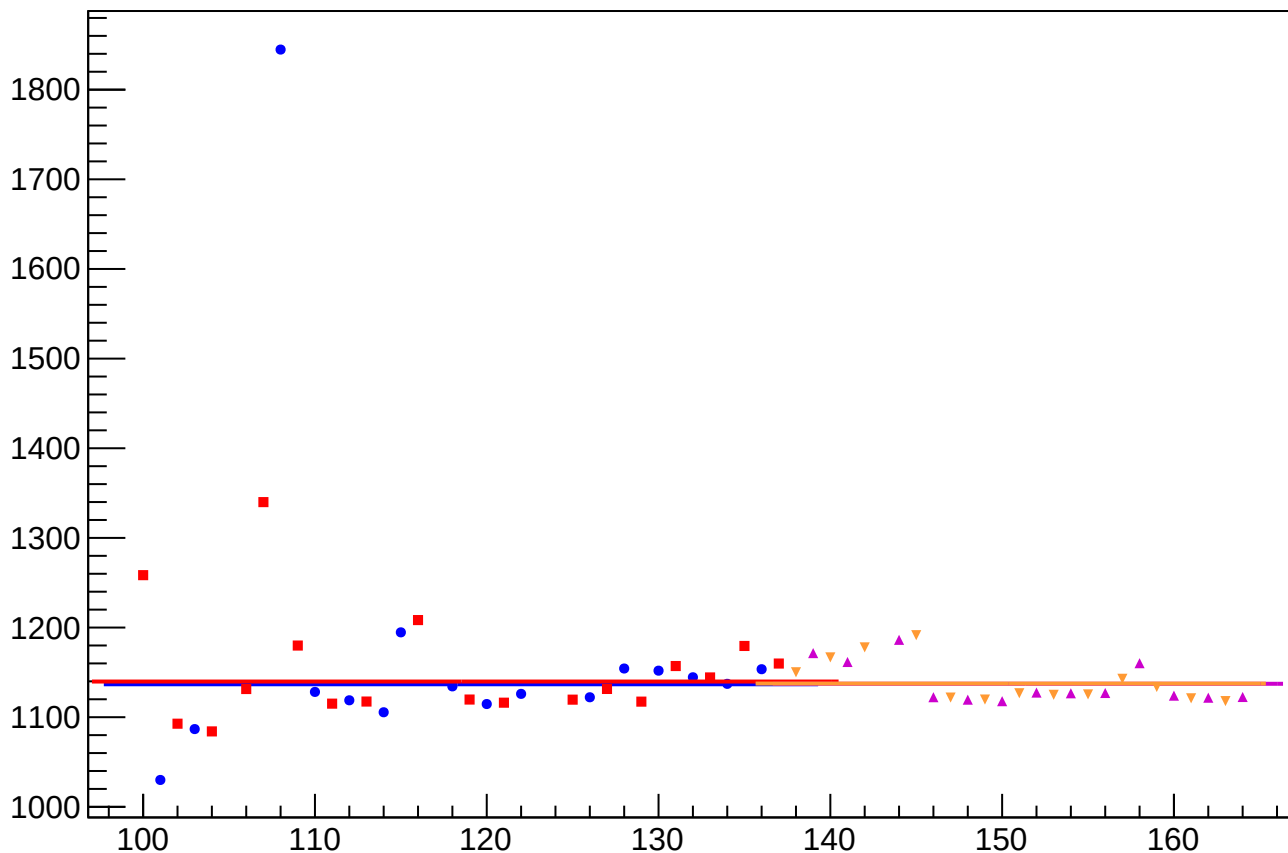
Right: 1910.242 $\pm$ 308.176  $\chi^2$ /NDF: 19.2/33

In: 1651.630 $\pm$ 275.195  $\chi^2$ /NDF:19.9/28

Out: 1889.132 $\pm$ 276.776  $\chi^2$ /NDF:29.8/30

All: 1769.701 $\pm$ 195.149  $\chi^2$ /NDF: 50.0/59

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



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

Left Out:  $1137.526 \pm 0.255$   $\chi^2/\text{NDF}: 7472.5/12$

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

Left In:  $1137.277 \pm 0.249$   $\chi^2/\text{NDF}: 8016.5/12$

Left:  $1137.398 \pm 0.178$   $\chi^2/\text{NDF}: 15489.5/25$

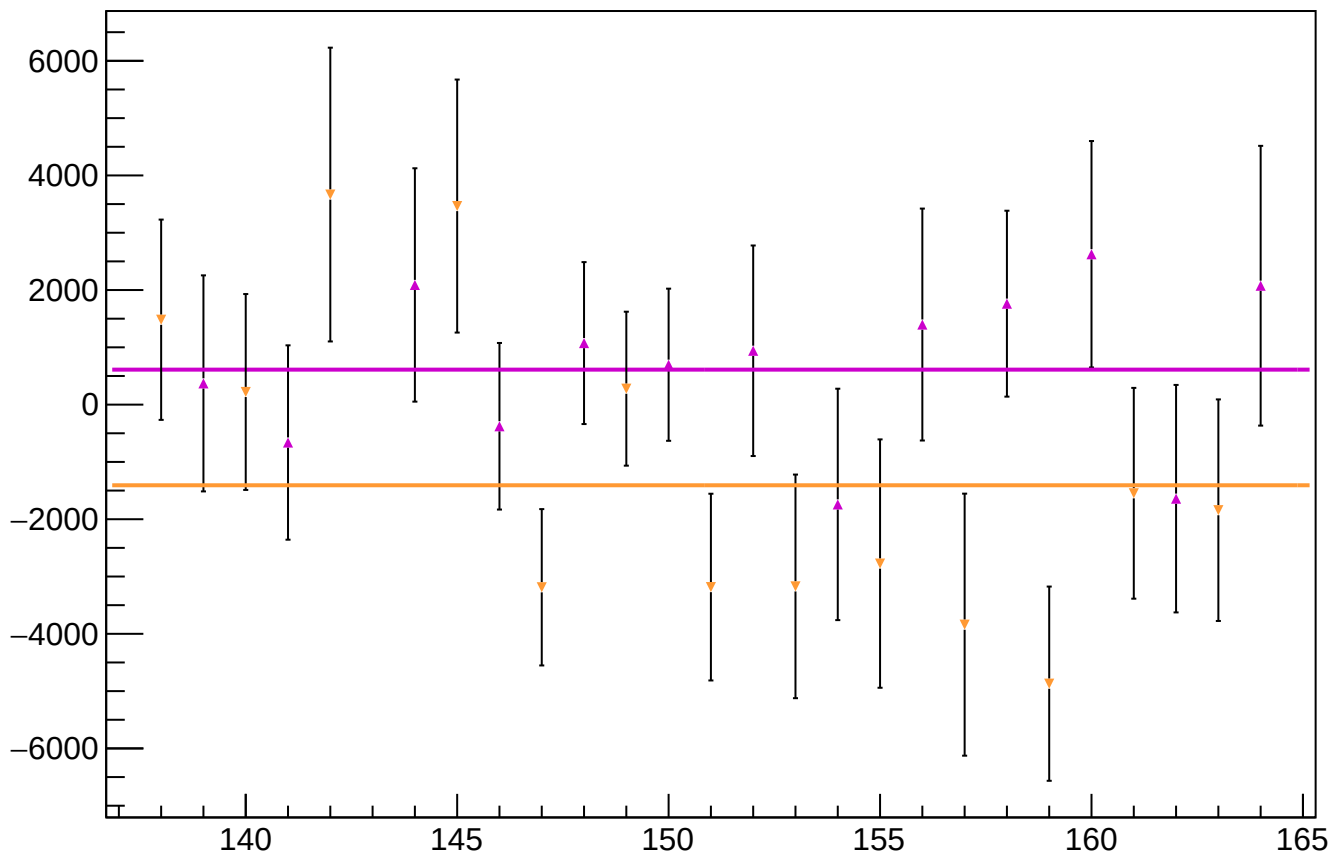
Right:  $1138.298 \pm 0.218$   $\chi^2/\text{NDF}: 156913.9/33$

In:  $1137.067 \pm 0.195$   $\chi^2/\text{NDF}: 136816.7/28$

Out:  $1138.459 \pm 0.196$   $\chi^2/\text{NDF}: 35571.5/30$

All:  $1137.759 \pm 0.138$   $\chi^2/\text{NDF}: 172413.6/59$

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



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

Left Out: -1407.398 $\pm$ 495.522  $\chi^2/\text{NDF}$ :23.5/12

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

Left In: 610.709 $\pm$ 484.808  $\chi^2/\text{NDF}$ :6.4/12

Left: -376.291 $\pm$ 346.537  $\chi^2/\text{NDF}$ : 38.4/25

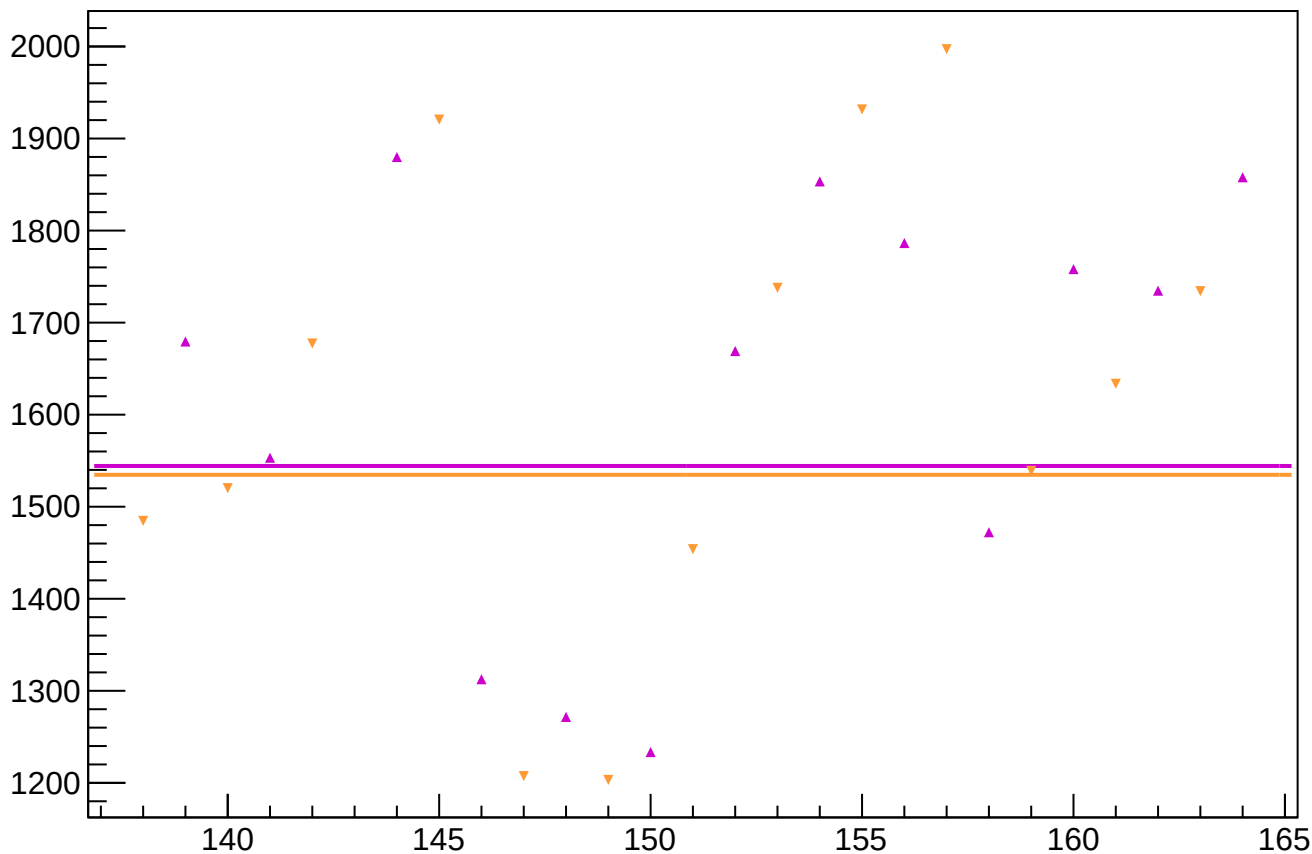
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 610.709 $\pm$ 484.808  $\chi^2/\text{NDF}$ :6.4/12

Out: -1407.398 $\pm$ 495.522  $\chi^2/\text{NDF}$ :23.5/12

All: -376.291 $\pm$ 346.537  $\chi^2/\text{NDF}$ : 38.4/25

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



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

Left Out: 1534.672+/-0.350  $\chi^2/\text{NDF}$ :508463.8/12

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

Left In: 1544.266+/-0.343  $\chi^2/\text{NDF}$ :463109.1/12

Left: 1539.574+/-0.245  $\chi^2/\text{NDF}$ : 971956.1/25

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

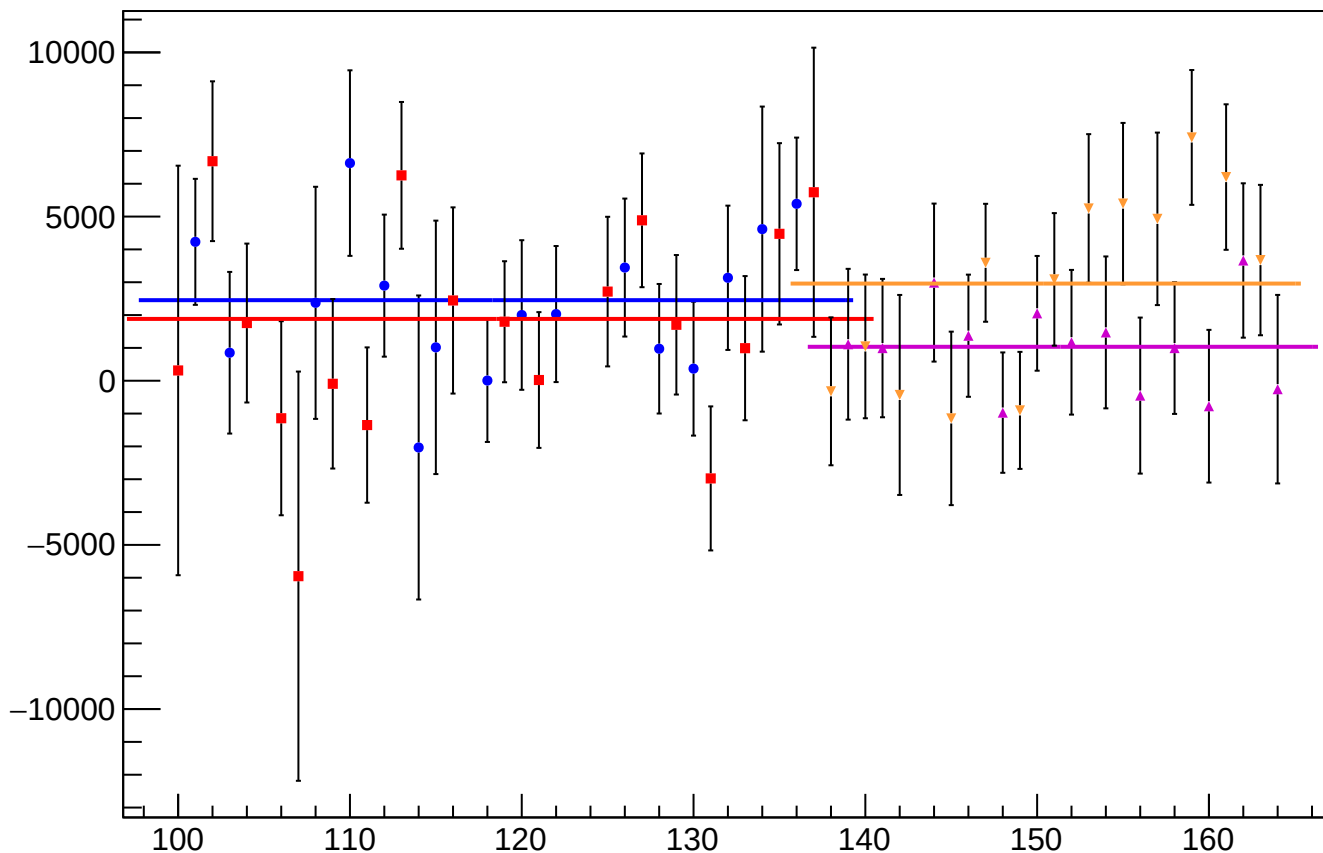
In: 1544.266+/-0.343  $\chi^2/\text{NDF}$ :463109.1/12

Out: 1534.672+/-0.350  $\chi^2/\text{NDF}$ :508463.8/12

All: 1539.574+/-0.245  $\chi^2/\text{NDF}$ : 971956.1/25



# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2453.670+/-584.307  $\chi^2/\text{NDF}$ : 10.8/15

Left Out: 2959.407+/-612.619  $\chi^2/\text{NDF}$ : 20.9/12

Right Out: 1882.755+/-583.188  $\chi^2/\text{NDF}$ : 22.8/17

Left In: 1033.766+/-596.830  $\chi^2/\text{NDF}$ : 4.7/12

Left: 1971.452+/-427.495  $\chi^2/\text{NDF}$ : 30.7/25

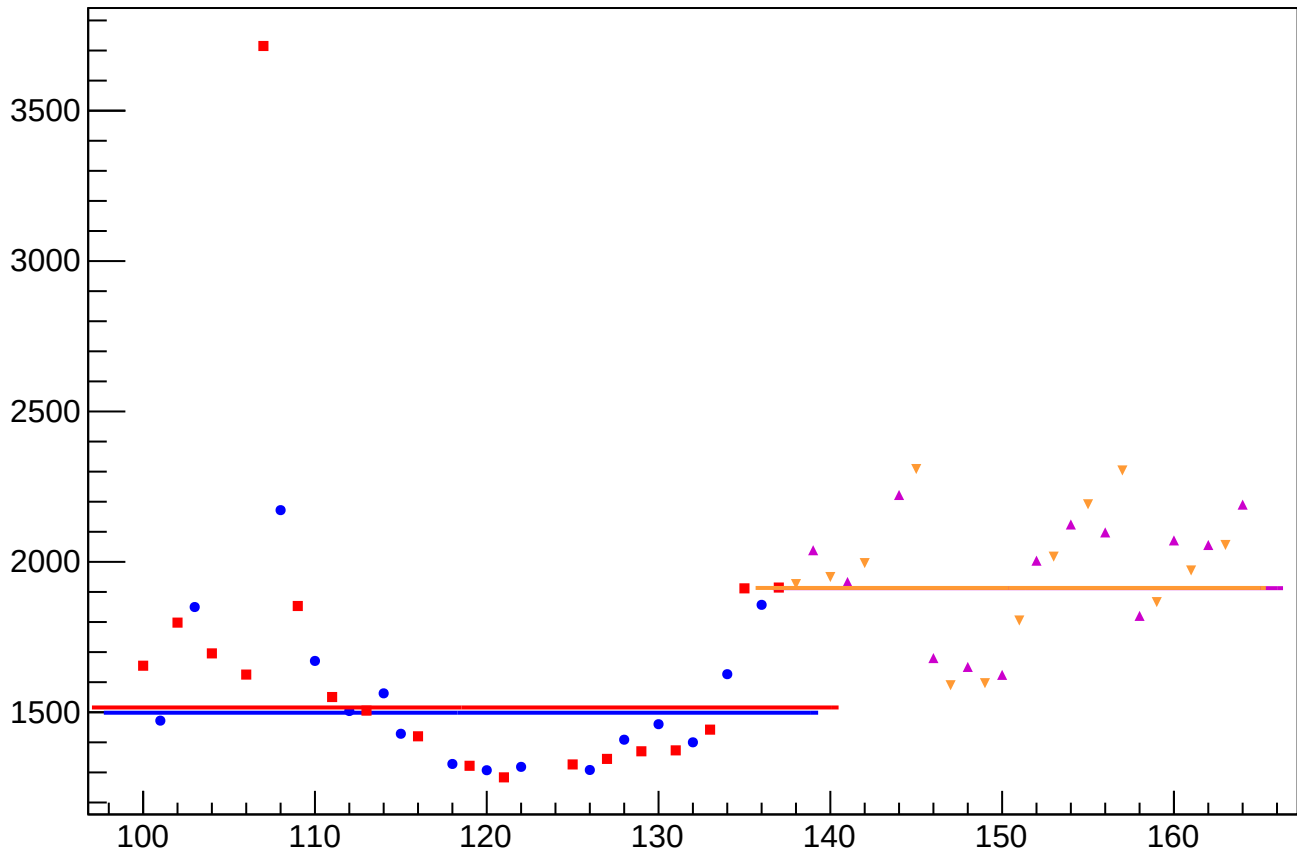
Right: 2167.665+/-412.771  $\chi^2/\text{NDF}$ : 34.0/33

In: 1758.771+/-417.524  $\chi^2/\text{NDF}$ : 18.4/28

Out: 2394.599+/-422.398  $\chi^2/\text{NDF}$ : 45.2/30

All: 2072.996+/-296.942  $\chi^2/\text{NDF}$ : 64.8/59

# asym\_usl\_rms vs Slug, Sign Corrected



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

Left Out: 1913.287 $\pm$ 0.433  $\chi^2/\text{NDF}$ :264906.1/12

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

Left In: 1912.570 $\pm$ 0.422  $\chi^2/\text{NDF}$ :237873.6/12

Left: 1912.919 $\pm$ 0.302  $\chi^2/\text{NDF}$ : 502781.1/25

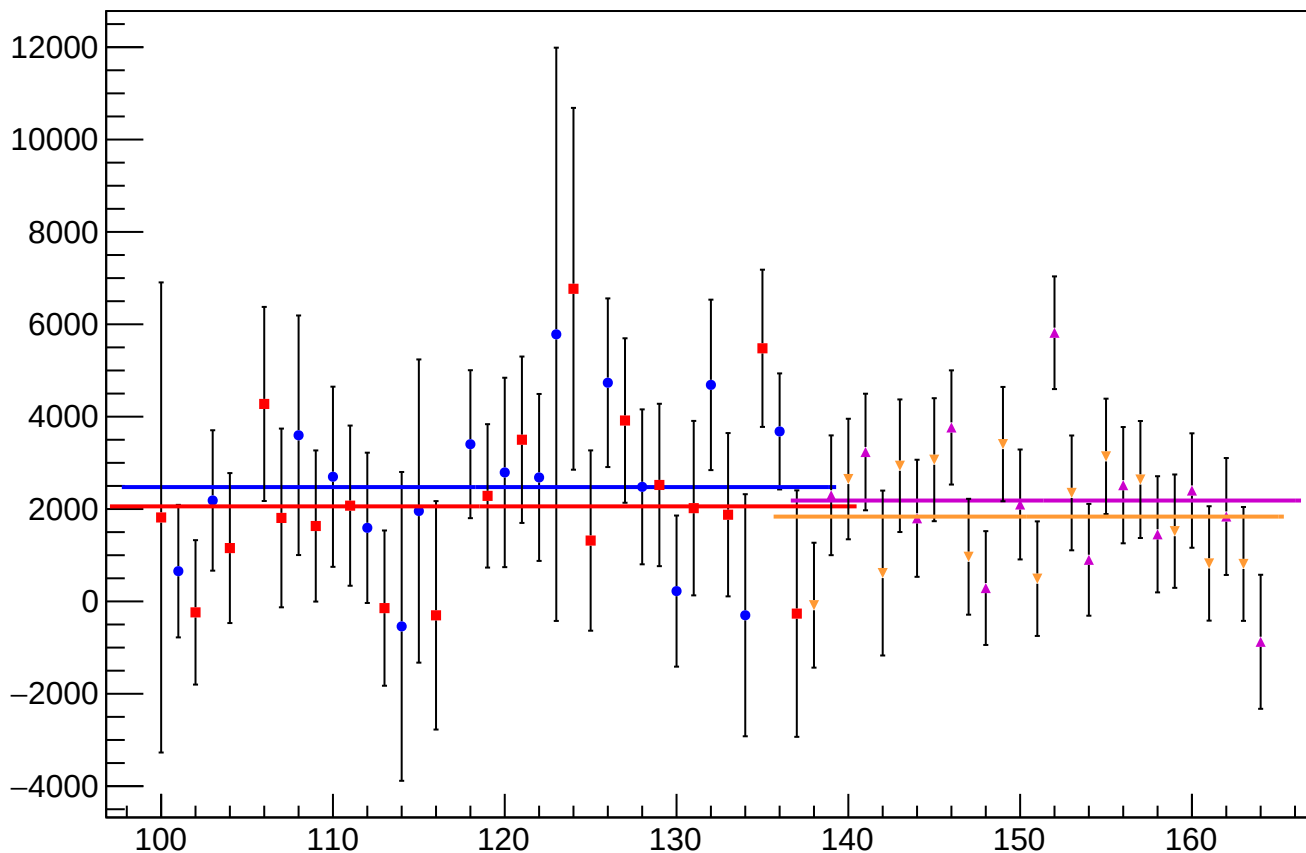
Right: 1507.233 $\pm$ 0.292  $\chi^2/\text{NDF}$ : 740243.9/33

In: 1701.137 $\pm$ 0.295  $\chi^2/\text{NDF}$ :988256.5/28

Out: 1704.844 $\pm$ 0.299  $\chi^2/\text{NDF}$ :1186809.6/30

All: 1702.969 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 2175143.9/59

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



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

Left Out: 1836.105 $\pm$ 346.673  $\chi^2/\text{NDF}$ : 10.7/13

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

Left In: 2184.185 $\pm$ 348.545  $\chi^2/\text{NDF}$ : 19.7/12

Left: 2009.208 $\pm$ 245.794  $\chi^2/\text{NDF}$ : 30.9/26

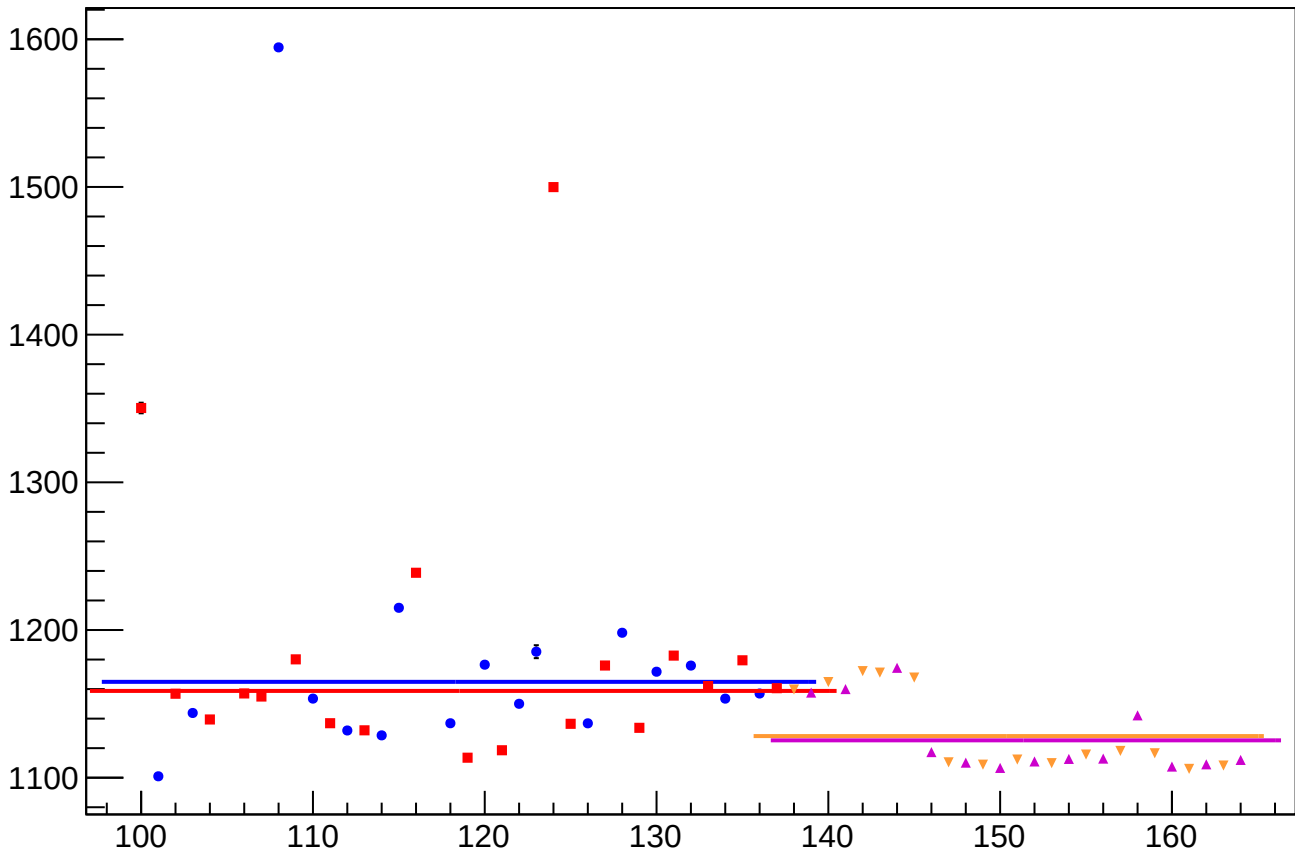
Right: 2259.079 $\pm$ 312.021  $\chi^2/\text{NDF}$ : 25.5/35

In: 2293.532 $\pm$ 275.413  $\chi^2/\text{NDF}$ : 30.6/29

Out: 1922.563 $\pm$ 270.763  $\chi^2/\text{NDF}$ : 25.3/32

All: 2104.890 $\pm$ 193.081  $\chi^2/\text{NDF}$ : 56.8/62

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



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

Left Out:  $1128.180 \pm 0.245$   $\chi^2/\text{NDF}$ : 10763.8/13

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

Left In:  $1125.295 \pm 0.246$   $\chi^2/\text{NDF}$ : 8586.8/12

Left:  $1126.745 \pm 0.174$   $\chi^2/\text{NDF}$ : 19419.4/26

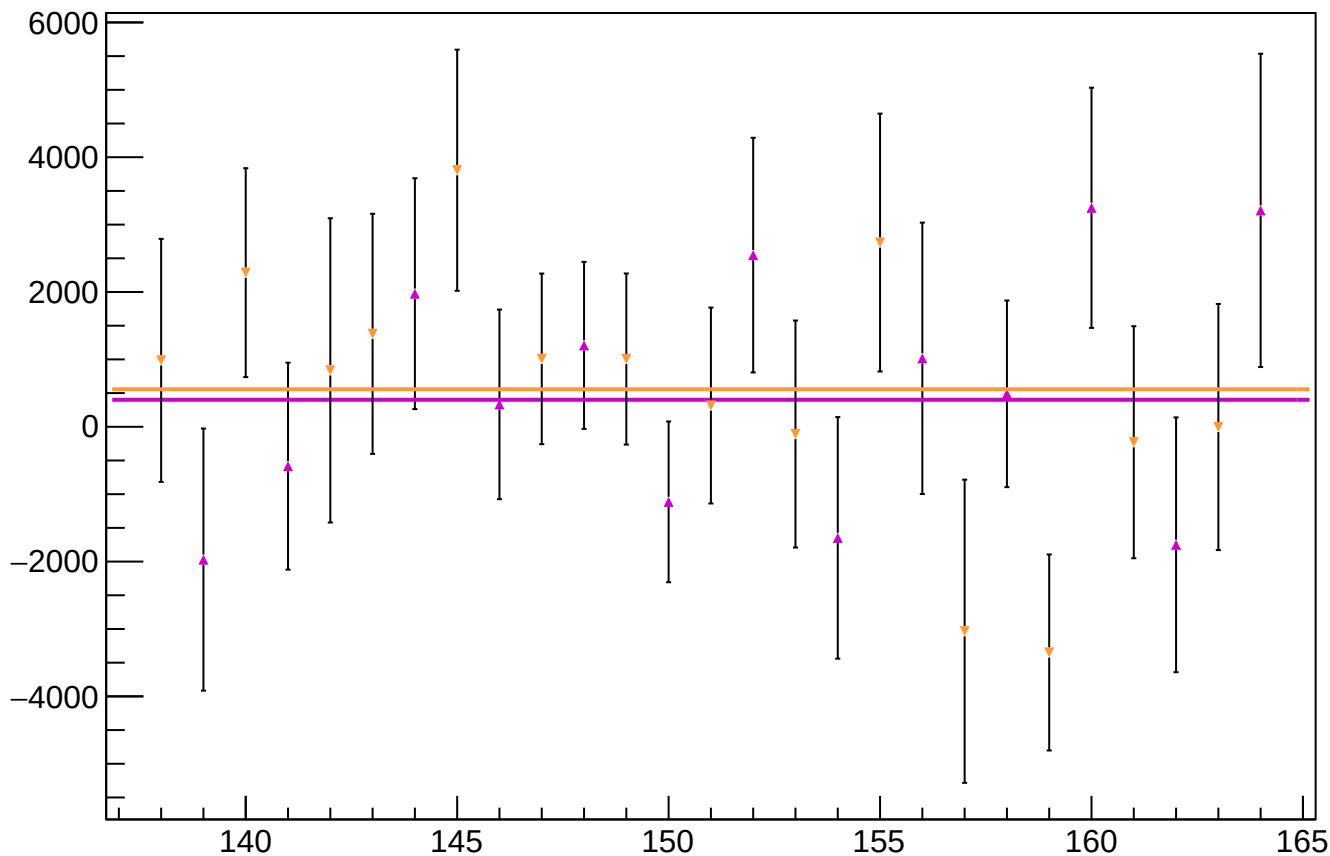
Right:  $1161.721 \pm 0.221$   $\chi^2/\text{NDF}$ : 89053.7/35

In:  $1140.173 \pm 0.195$   $\chi^2/\text{NDF}$ : 81425.2/29

Out:  $1140.105 \pm 0.191$   $\chi^2/\text{NDF}$ : 42555.5/32

All:  $1140.138 \pm 0.137$   $\chi^2/\text{NDF}$ : 123980.7/62

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



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

Left Out: 556.564+/-438.557  $\chi^2/\text{NDF}$ : 16.6/13

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

Left In: 401.075+/-443.775  $\chi^2/\text{NDF}$ : 13.0/12

Left: 479.739+/-311.935  $\chi^2/\text{NDF}$ : 29.7/26

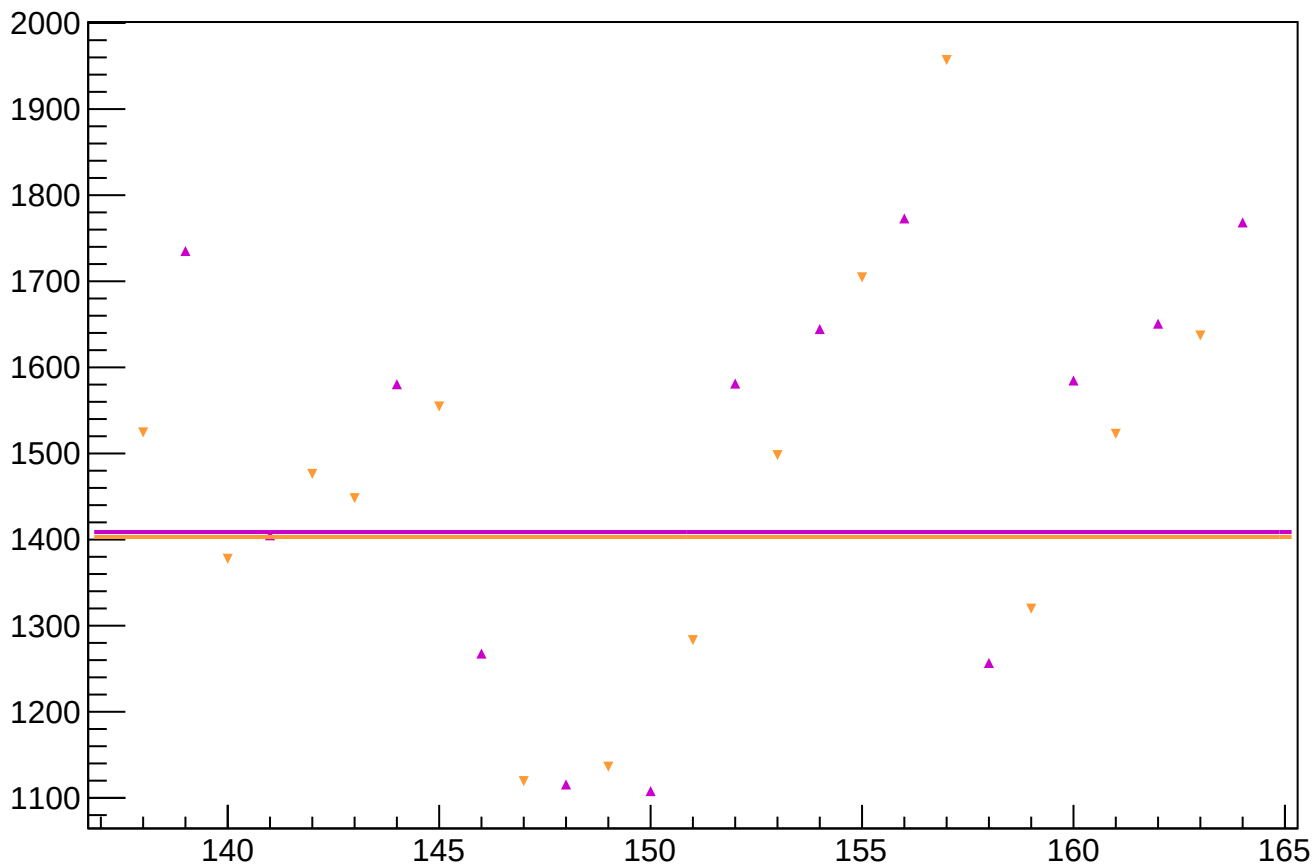
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 401.075+/-443.775  $\chi^2/\text{NDF}$ : 13.0/12

Out: 556.564+/-438.557  $\chi^2/\text{NDF}$ : 16.6/13

All: 479.739+/-311.935  $\chi^2/\text{NDF}$ : 29.7/26

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



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

Left Out: 1403.052+/-0.310  $\chi^2/\text{NDF}$ :456138.6/13

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

Left In: 1408.779+/-0.314  $\chi^2/\text{NDF}$ :579695.4/12

Left: 1405.882+/-0.221  $\chi^2/\text{NDF}$ : 1036002.6/26

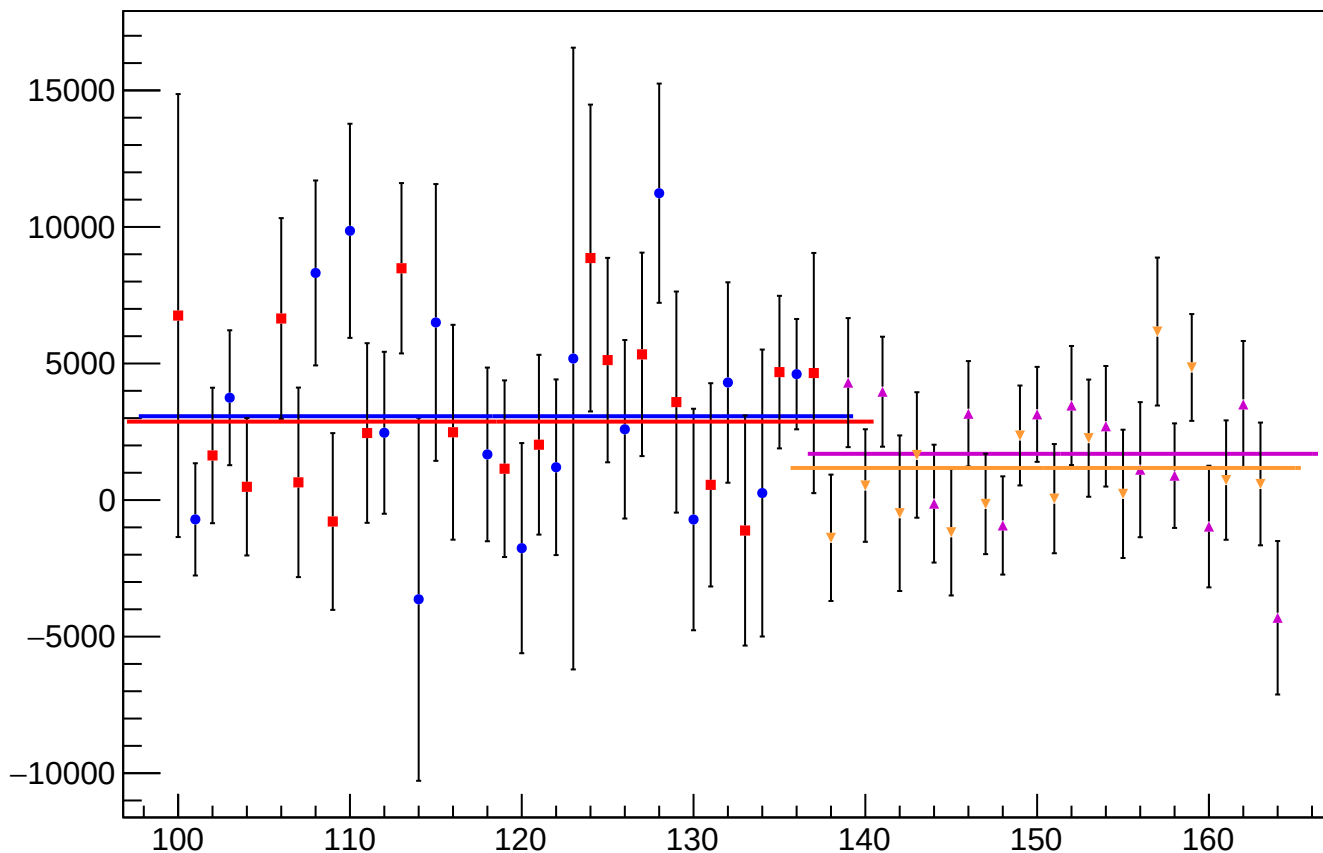
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1408.779+/-0.314  $\chi^2/\text{NDF}$ :579695.4/12

Out: 1403.052+/-0.310  $\chi^2/\text{NDF}$ :456138.6/13

All: 1405.882+/-0.221  $\chi^2/\text{NDF}$ : 1036002.6/26

# asym\_usr\_mean vs Slug, Sign Corrected



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

Left Out: 1175.606 $\pm$ 580.244  $\chi^2/\text{NDF}$ : 11.5/13

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

Left In: 1693.314 $\pm$ 585.796  $\chi^2/\text{NDF}$ : 14.3/12

Left: 1431.995 $\pm$ 412.244  $\chi^2/\text{NDF}$ : 26.2/26

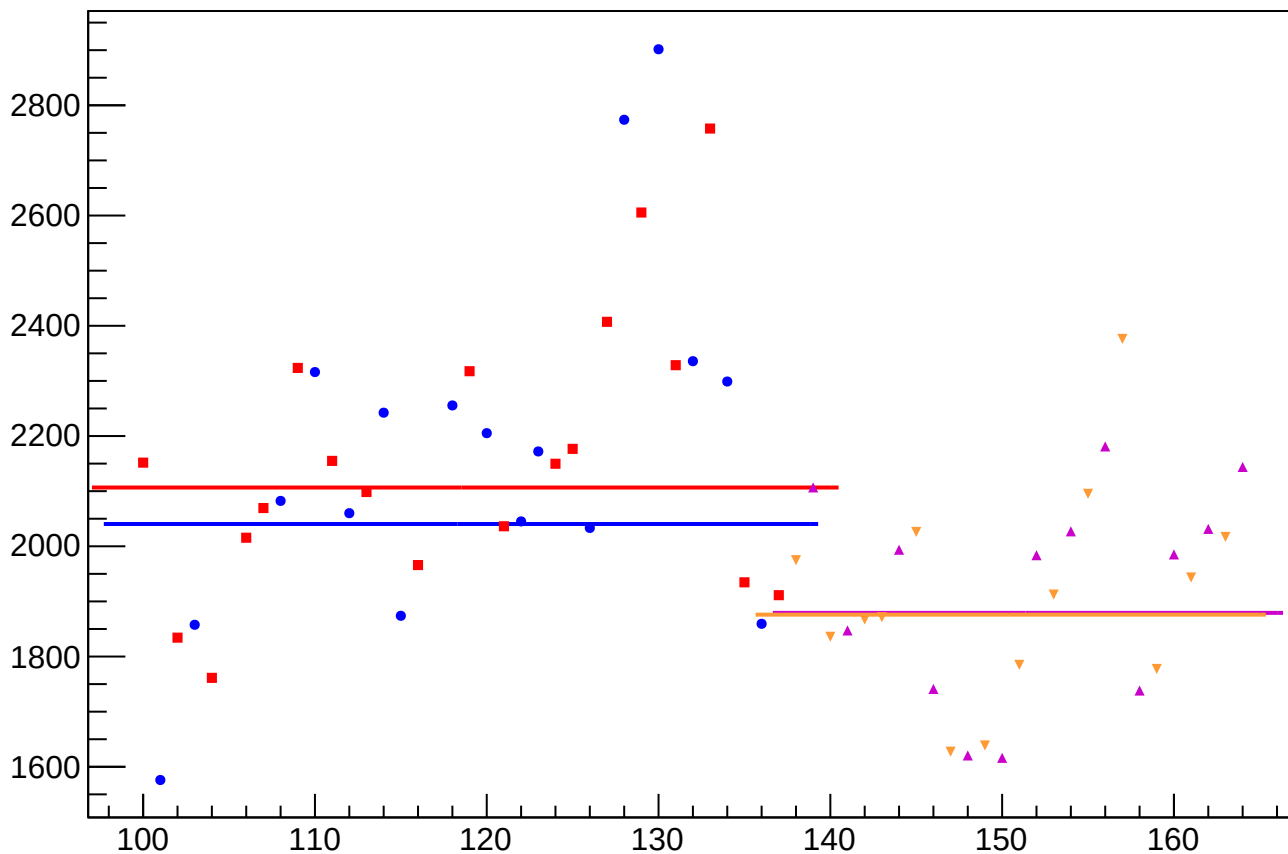
Right: 2970.754 $\pm$ 563.242  $\chi^2/\text{NDF}$ : 30.1/35

In: 2175.417 $\pm$ 472.167  $\chi^2/\text{NDF}$ : 34.8/29

Out: 1765.076 $\pm$ 468.758  $\chi^2/\text{NDF}$ : 26.0/32

All: 1968.759 $\pm$ 332.661  $\chi^2/\text{NDF}$ : 61.1/62

# asym\_usr\_rms vs Slug, Sign Corrected



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

Left Out: 1875.979+/-0.410  $\chi^2/\text{NDF}$ :188261.7/13

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

Left In: 1879.224+/-0.414  $\chi^2/\text{NDF}$ :207114.4/12

Left: 1877.586+/-0.292  $\chi^2/\text{NDF}$ : 395407.2/26

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

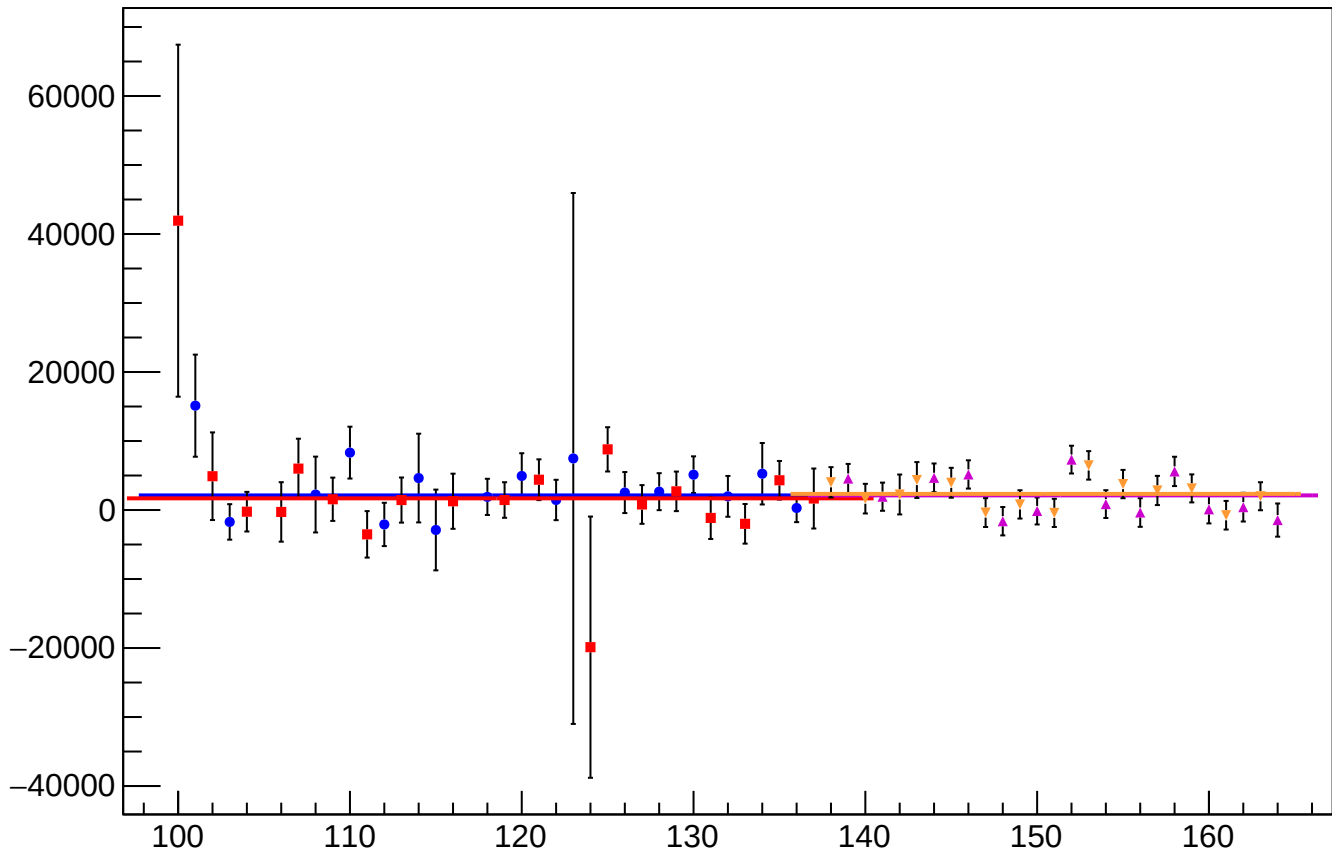
In: 1935.699+/-0.334  $\chi^2/\text{NDF}$ :591516.6/29

Out: 1956.095+/-0.331  $\chi^2/\text{NDF}$ :493444.3/32

All: 1945.971+/-0.235  $\chi^2/\text{NDF}$ : 1086840.3/62



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



Right In: 2115.027+/-795.794  $\chi^2/\text{NDF}$ : 14.2/16

Left Out: 2336.103+/-575.043  $\chi^2/\text{NDF}$ : 12.8/13

Right Out: 1691.127+/-784.678  $\chi^2/\text{NDF}$ : 17.5/18

Left In: 2120.517+/-575.440  $\chi^2/\text{NDF}$ : 24.7/12

Left: 2228.384+/-406.757  $\chi^2/\text{NDF}$ : 37.6/26

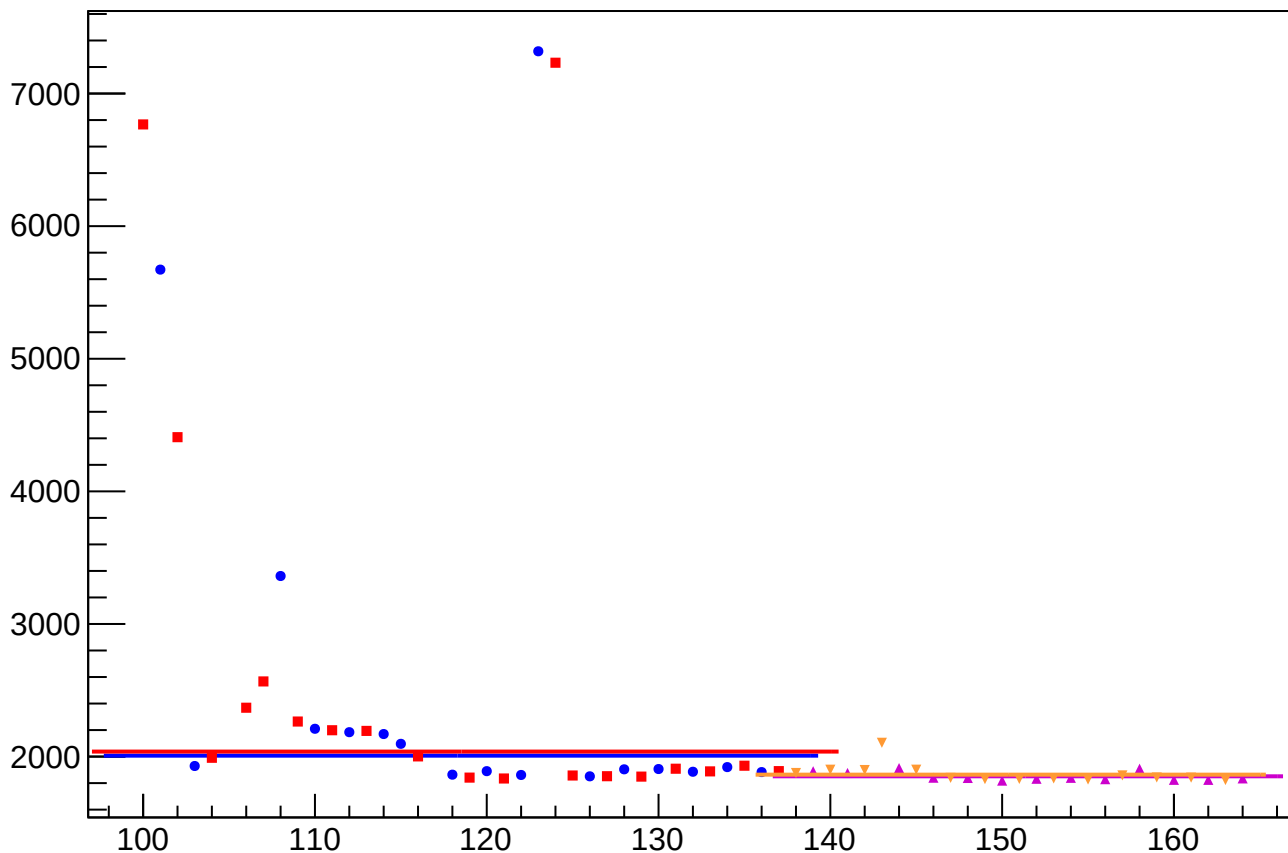
Right: 1900.096+/-558.740  $\chi^2/\text{NDF}$ : 31.8/35

In: 2118.632+/-466.303  $\chi^2/\text{NDF}$ : 38.8/29

Out: 2110.745+/-463.827  $\chi^2/\text{NDF}$ : 30.7/32

All: 2114.668+/-328.847  $\chi^2/\text{NDF}$ : 69.6/62

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



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

Left Out: 1863.760+/-0.407  $\chi^2/\text{NDF}$ : 22255.4/13

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

Left In: 1851.318+/-0.407  $\chi^2/\text{NDF}$ : 6082.2/12

Left: 1857.543+/-0.288  $\chi^2/\text{NDF}$ : 28805.4/26

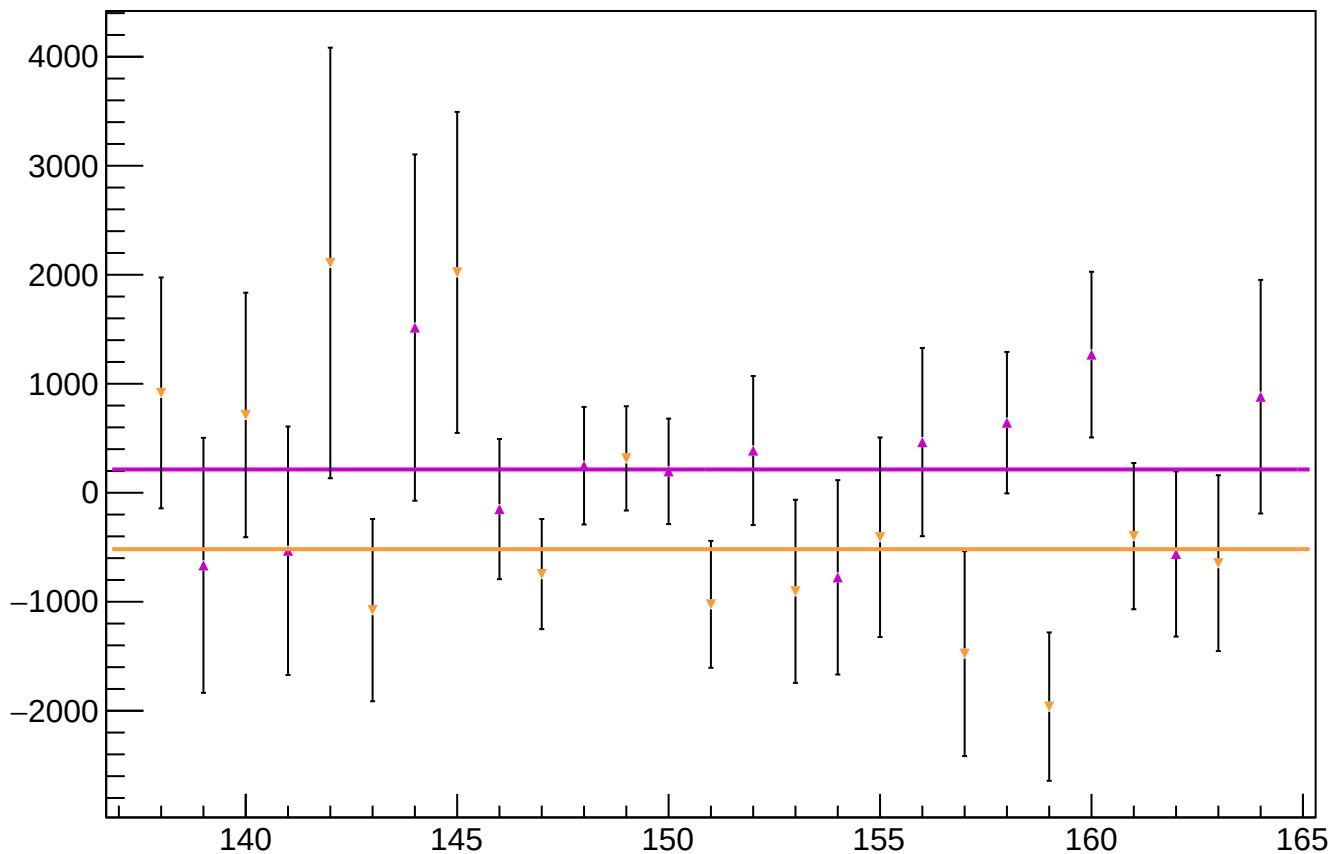
Right: 2022.626+/-0.395  $\chi^2/\text{NDF}$ : 1322841.6/35

In: 1904.784+/-0.330  $\chi^2/\text{NDF}$ : 758730.5/29

Out: 1924.564+/-0.328  $\chi^2/\text{NDF}$ : 705219.7/32

All: 1914.726+/-0.233  $\chi^2/\text{NDF}$ : 1465759.0/62

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



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

Left Out: -517.545+/-201.057  $\chi^2/\text{NDF}$ :18.0/13

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

Left In: 213.755+/-206.345  $\chi^2/\text{NDF}$ :7.2/12

Left: -161.386+/-144.002  $\chi^2/\text{NDF}$ : 31.7/26

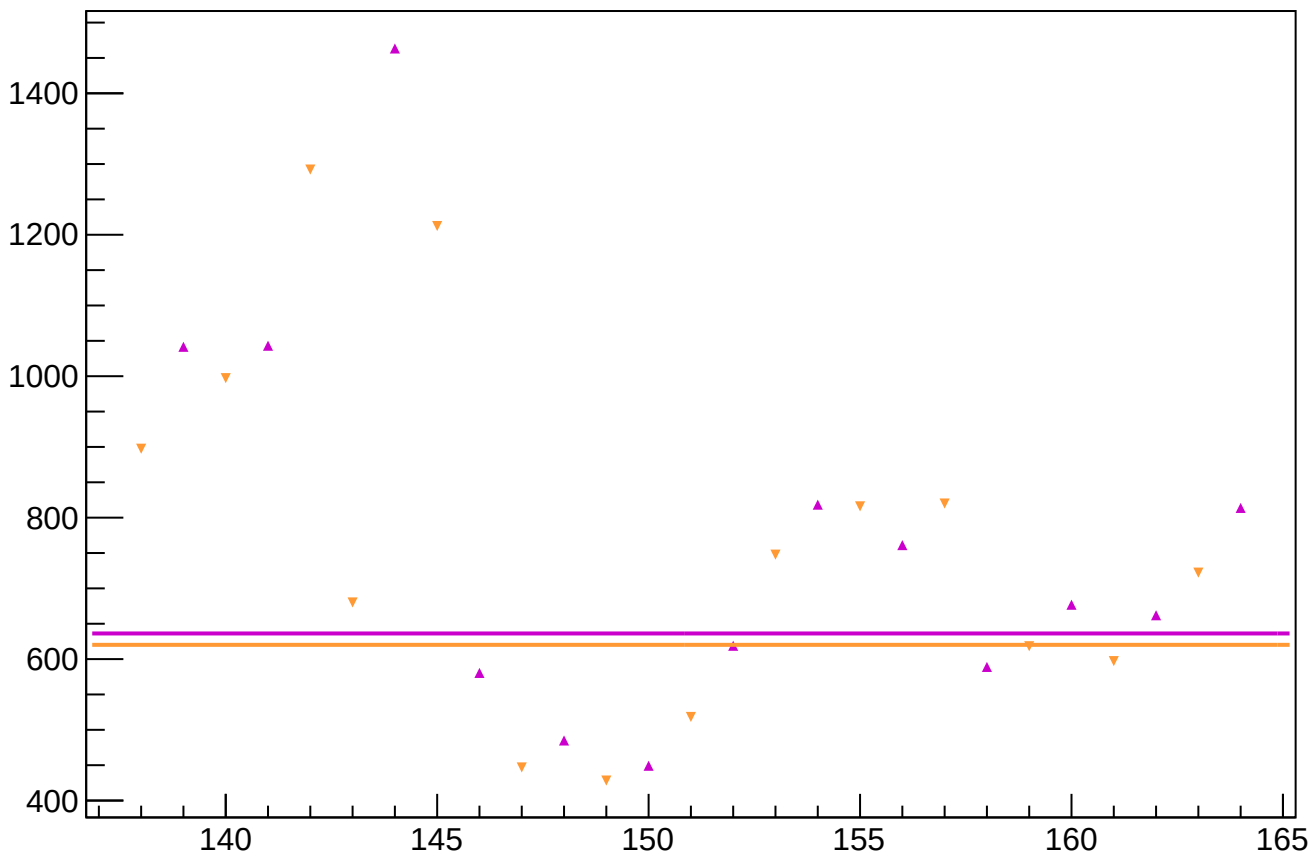
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 213.755+/-206.345  $\chi^2/\text{NDF}$ :7.2/12

Out: -517.545+/-201.057  $\chi^2/\text{NDF}$ :18.0/13

All: -161.386+/-144.002  $\chi^2/\text{NDF}$ : 31.7/26

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



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

Left Out: 620.174+/-0.142  $\chi^2/\text{NDF}$ :1809687.0/13

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

Left In: 636.256+/-0.146  $\chi^2/\text{NDF}$ :1709183.4/12

Left: 628.006+/-0.102  $\chi^2/\text{NDF}$ : 3525102.4/26

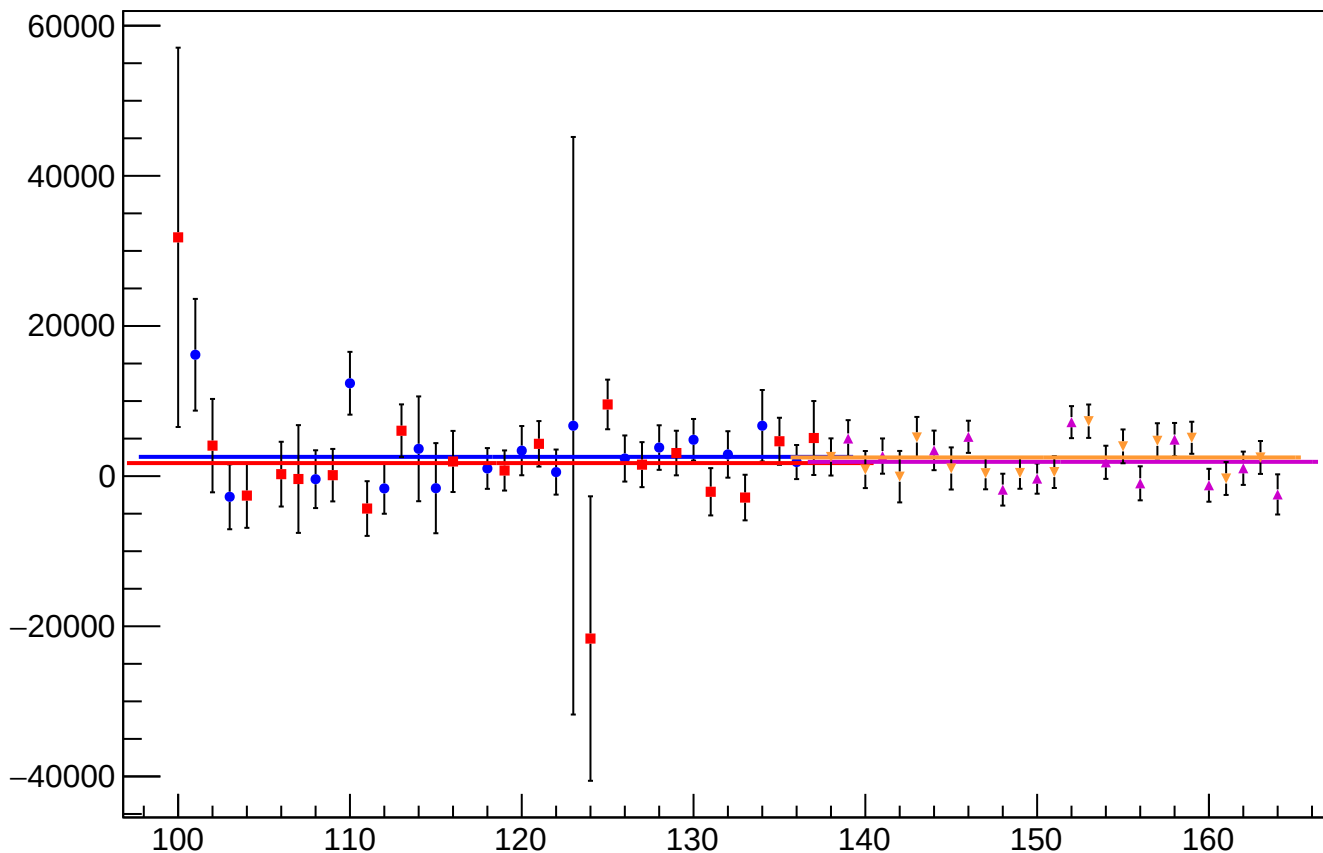
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 636.256+/-0.146  $\chi^2/\text{NDF}$ :1709183.4/12

Out: 620.174+/-0.142  $\chi^2/\text{NDF}$ :1809687.0/13

All: 628.006+/-0.102  $\chi^2/\text{NDF}$ : 3525102.4/26

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



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

Left Out: 2490.915 $\pm$ 625.339  $\chi^2$ /NDF:14.2/13

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

Left In: 1903.622 $\pm$ 625.793  $\chi^2$ /NDF:23.1/12

Left: 2197.481 $\pm$ 442.342  $\chi^2$ /NDF: 37.7/26

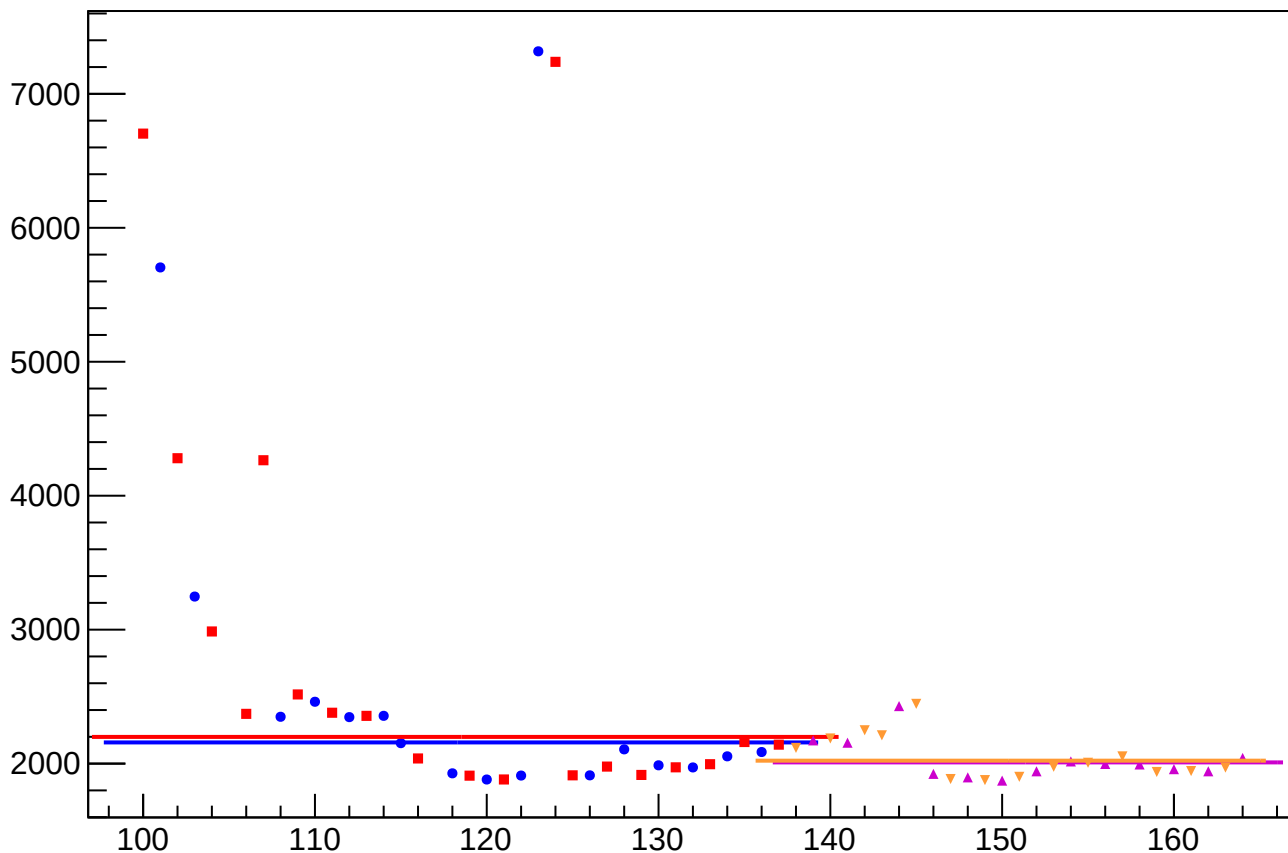
Right: 2150.830 $\pm$ 604.316  $\chi^2$ /NDF: 36.5/35

In: 2134.577 $\pm$ 505.206  $\chi^2$ /NDF:39.1/29

Out: 2227.680 $\pm$ 504.369  $\chi^2$ /NDF:35.2/32

All: 2181.206 $\pm$ 356.938  $\chi^2$ /NDF: 74.2/62

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



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

Left Out: 2021.930 $\pm$ 0.442  $\chi^2$ /NDF:108276.5/13

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

Left In: 2009.021 $\pm$ 0.443  $\chi^2$ /NDF:90847.7/12

Left: 2015.480 $\pm$ 0.313  $\chi^2$ /NDF: 199550.0/26

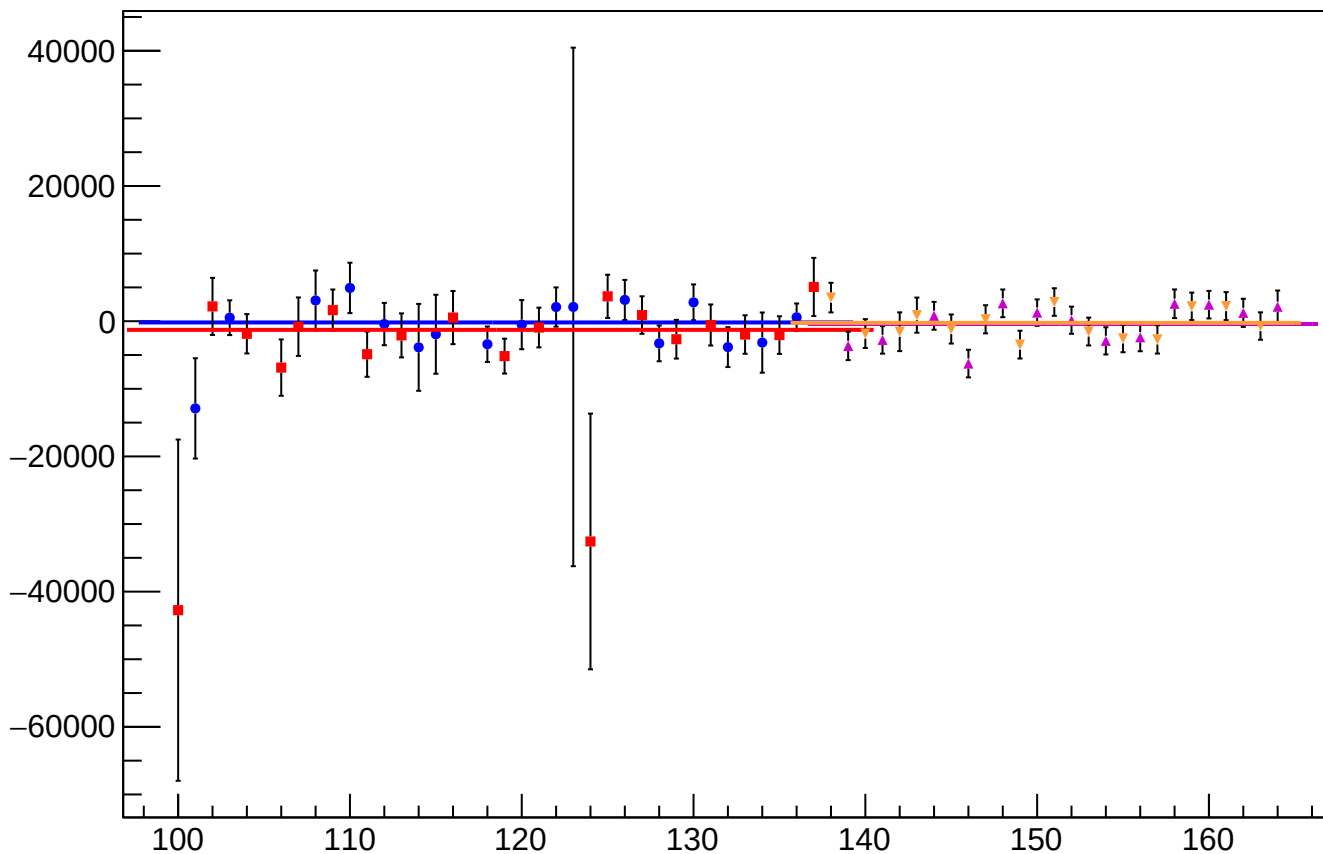
Right: 2178.816 $\pm$ 0.427  $\chi^2$ /NDF: 1519207.5/35

In: 2060.956 $\pm$ 0.357  $\chi^2$ /NDF:844262.9/29

Out: 2083.931 $\pm$ 0.357  $\chi^2$ /NDF:967556.6/32

All: 2072.463 $\pm$ 0.252  $\chi^2$ /NDF: 1813891.2/62

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



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

Left Out: -247.206+/-572.827  $\chi^2/\text{NDF}$ :14.8/13

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

Left In: -413.753+/-573.683  $\chi^2/\text{NDF}$ :23.5/12

Left: -330.356+/-405.352  $\chi^2/\text{NDF}$ : 38.3/26

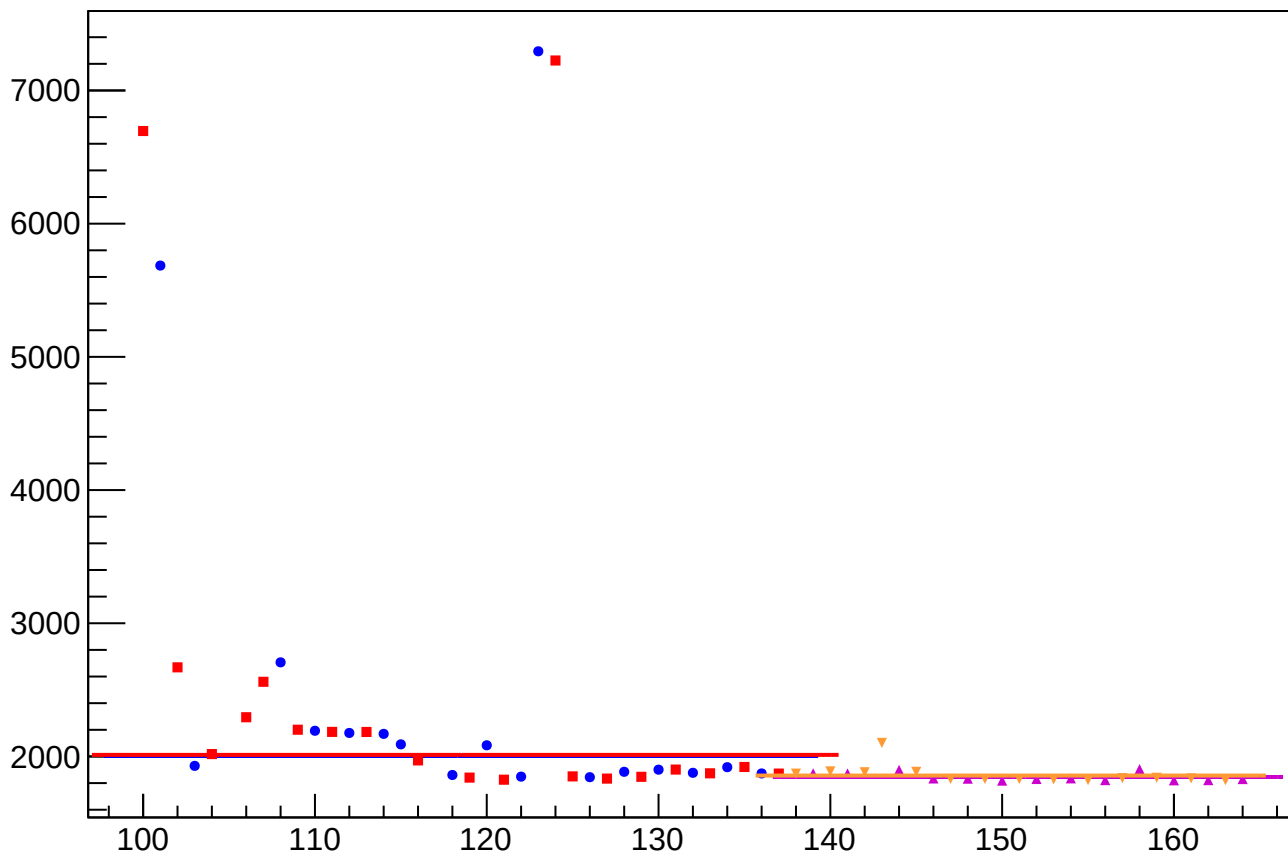
Right: -745.132+/-553.094  $\chi^2/\text{NDF}$ : 33.2/35

In: -334.873+/-464.681  $\chi^2/\text{NDF}$ :37.5/29

Out: -612.956+/-460.103  $\chi^2/\text{NDF}$ :34.2/32

All: -475.291+/-326.948  $\chi^2/\text{NDF}$ : 71.9/62

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



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

Left Out: 1856.652 $\pm$ 0.405  $\chi^2$ /NDF: 21810.8/13

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

Left In: 1845.741 $\pm$ 0.406  $\chi^2$ /NDF: 5171.2/12

Left: 1851.205 $\pm$ 0.287  $\chi^2$ /NDF: 27344.3/26

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

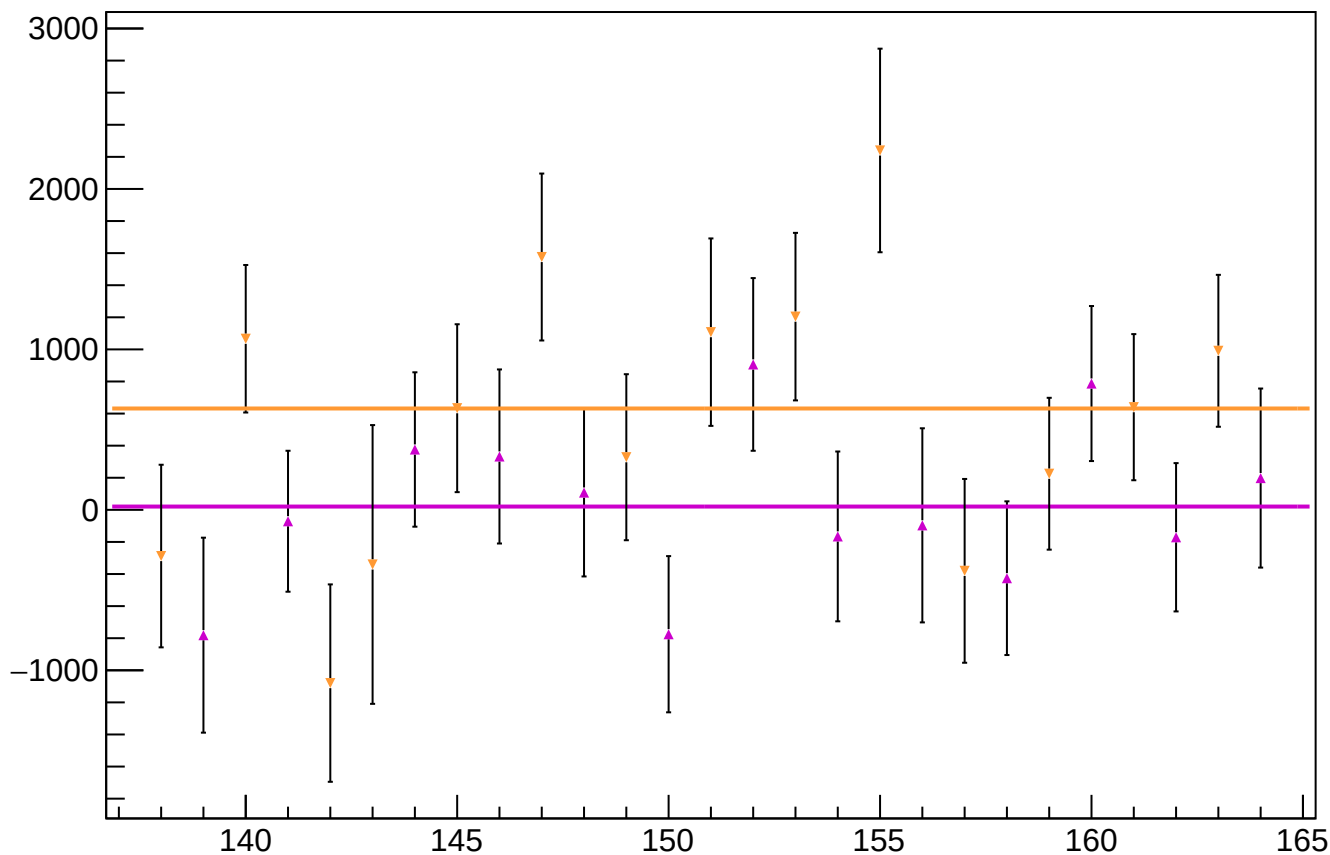
In: 1900.011 $\pm$ 0.329  $\chi^2$ /NDF: 691347.1/29

Out: 1911.706 $\pm$ 0.325  $\chi^2$ /NDF: 451827.4/32

All: 1905.916 $\pm$ 0.231  $\chi^2$ /NDF: 1143814.3/62



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



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

Left Out:  $631.684 \pm 143.218$   $\chi^2/\text{NDF}: 28.9/13$

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

Left In:  $20.524 \pm 141.731$   $\chi^2/\text{NDF}: 11.9/12$

Left:  $322.916 \pm 100.741$   $\chi^2/\text{NDF}: 50.0/26$

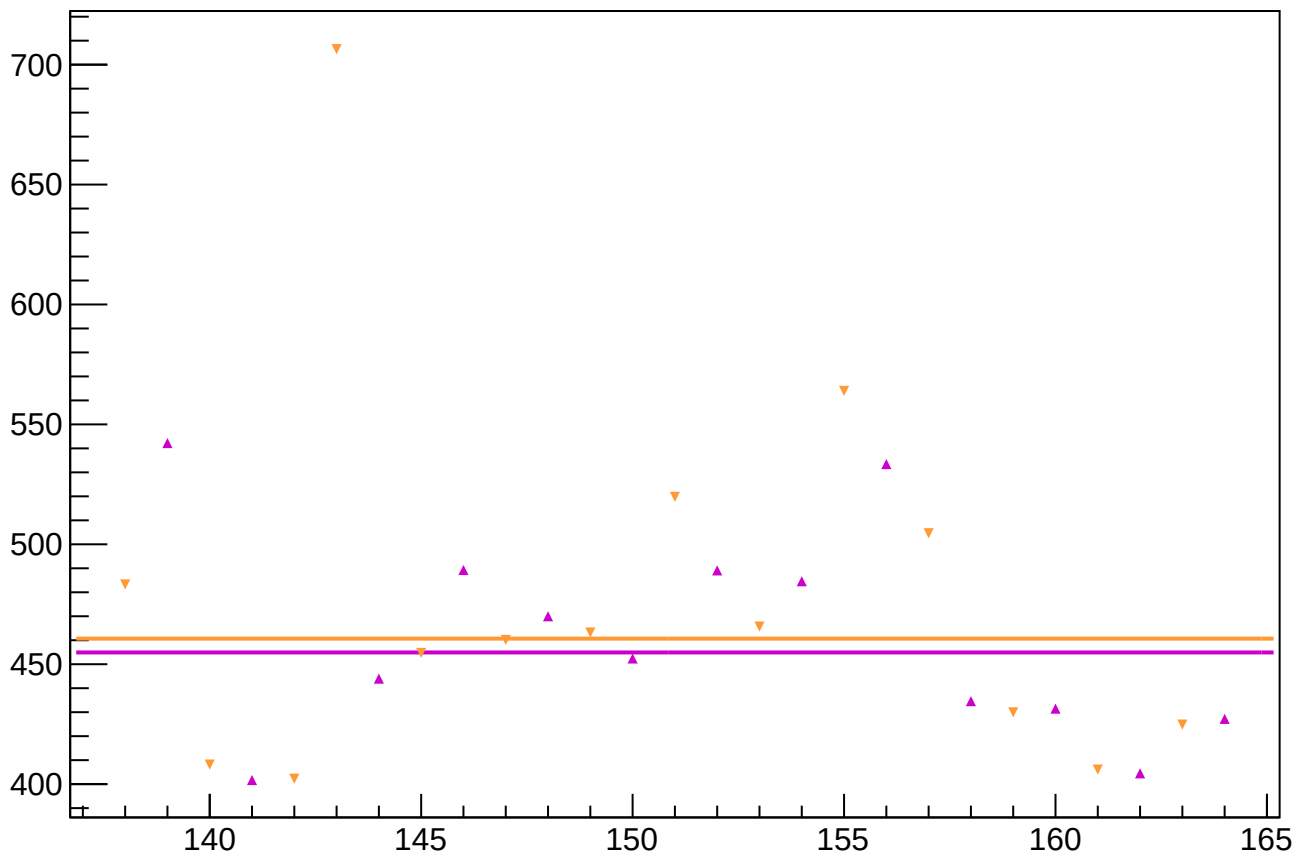
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $20.524 \pm 141.731$   $\chi^2/\text{NDF}: 11.9/12$

Out:  $631.684 \pm 143.218$   $\chi^2/\text{NDF}: 28.9/13$

All:  $322.916 \pm 100.741$   $\chi^2/\text{NDF}: 50.0/26$

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



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

Left Out: 460.676+/-0.101  $\chi^2/\text{NDF}$ :341838.8/13

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

Left In: 454.908+/-0.100  $\chi^2/\text{NDF}$ :166533.5/12

Left: 457.762+/-0.071  $\chi^2/\text{NDF}$ : 510011.1/26

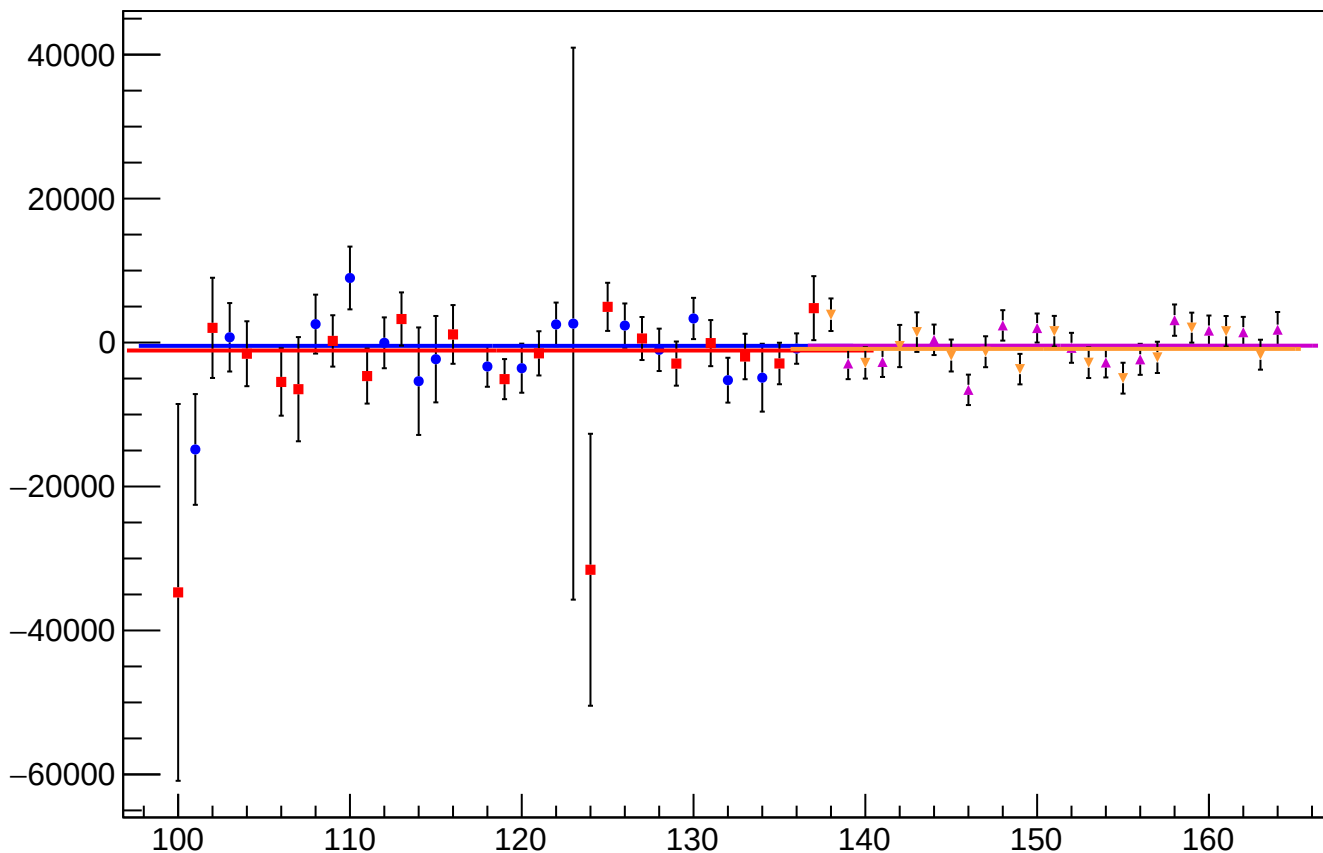
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 454.908+/-0.100  $\chi^2/\text{NDF}$ :166533.5/12

Out: 460.676+/-0.101  $\chi^2/\text{NDF}$ :341838.8/13

All: 457.762+/-0.071  $\chi^2/\text{NDF}$ : 510011.1/26

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



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

Left Out: -882.045+/-592.099  $\chi^2/\text{NDF}$ :17.4/13

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

Left In: -434.878+/-591.536  $\chi^2/\text{NDF}$ :21.6/12

Left: -658.249+/-418.478  $\chi^2/\text{NDF}$ : 39.3/26

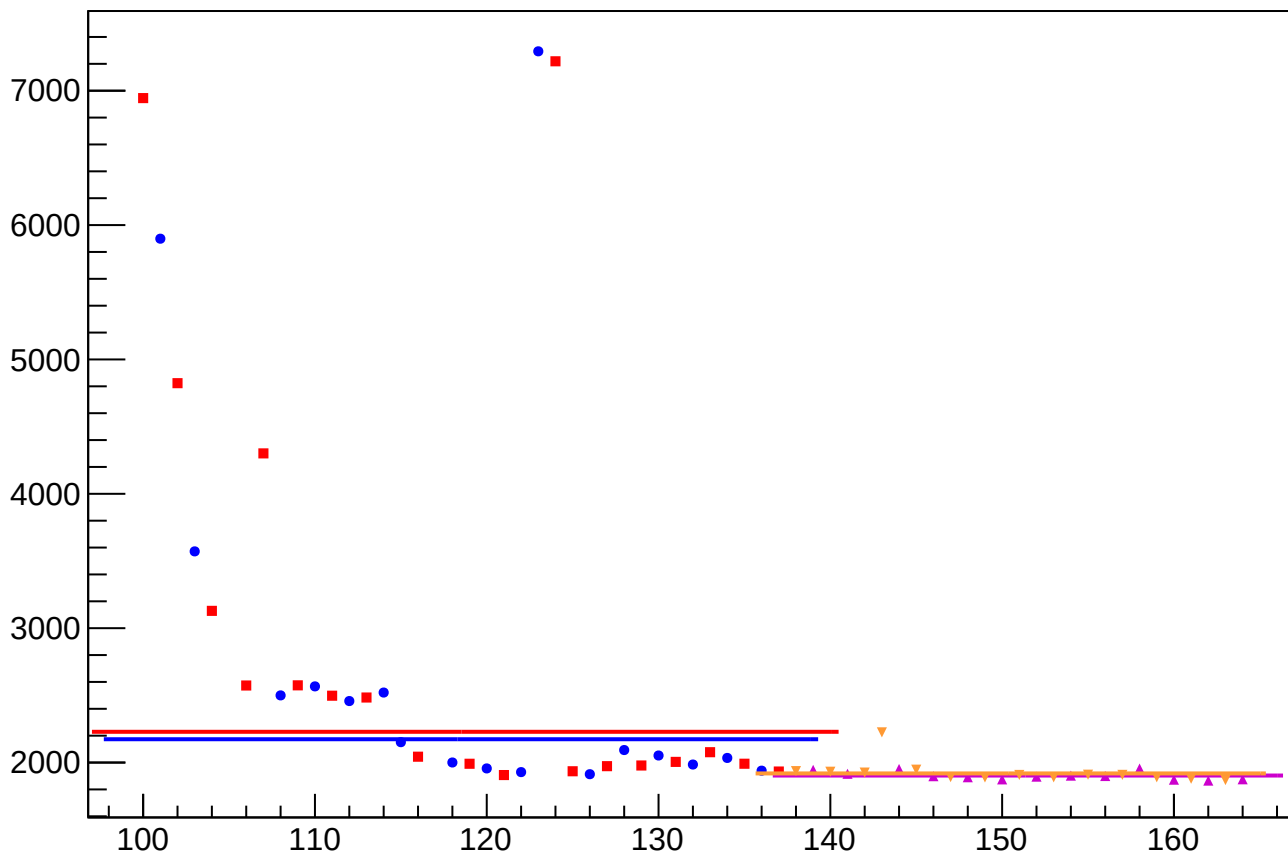
Right: -780.562+/-612.463  $\chi^2/\text{NDF}$ : 35.2/35

In: -442.343+/-488.307  $\chi^2/\text{NDF}$ :39.6/29

Out: -952.720+/-488.984  $\chi^2/\text{NDF}$ :34.4/32

All: -697.178+/-345.524  $\chi^2/\text{NDF}$ : 74.6/62

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



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

Left Out: 1919.042 $\pm$ 0.419  $\chi^2$ /NDF: 28691.9/13

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

Left In: 1903.388 $\pm$ 0.418  $\chi^2$ /NDF: 4869.0/12

Left: 1911.207 $\pm$ 0.296  $\chi^2$ /NDF: 34260.6/26

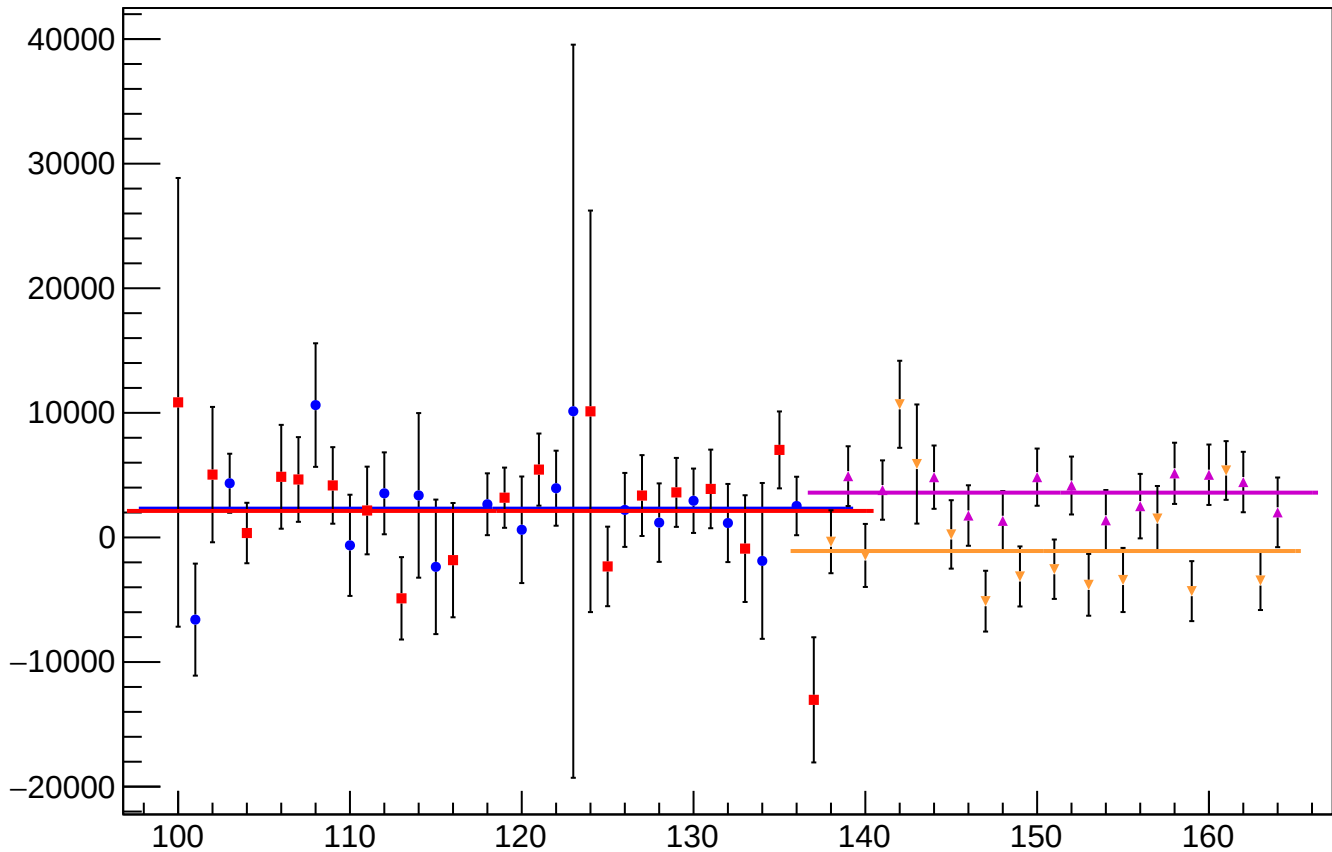
Right: 2201.146 $\pm$ 0.433  $\chi^2$ /NDF: 1705309.7/35

In: 1989.446 $\pm$ 0.345  $\chi^2$ /NDF: 943106.7/29

Out: 2017.567 $\pm$ 0.346  $\chi^2$ /NDF: 1098711.2/32

All: 2003.487 $\pm$ 0.244  $\chi^2$ /NDF: 2045129.8/62

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



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

Left Out: -1089.541 $\pm$ 693.661  $\chi^2/\text{NDF}$ :31.0/13

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

Left In: 3595.191 $\pm$ 677.582  $\chi^2/\text{NDF}$ :4.6/12

Left: 1307.749 $\pm$ 484.707  $\chi^2/\text{NDF}$ : 58.9/26

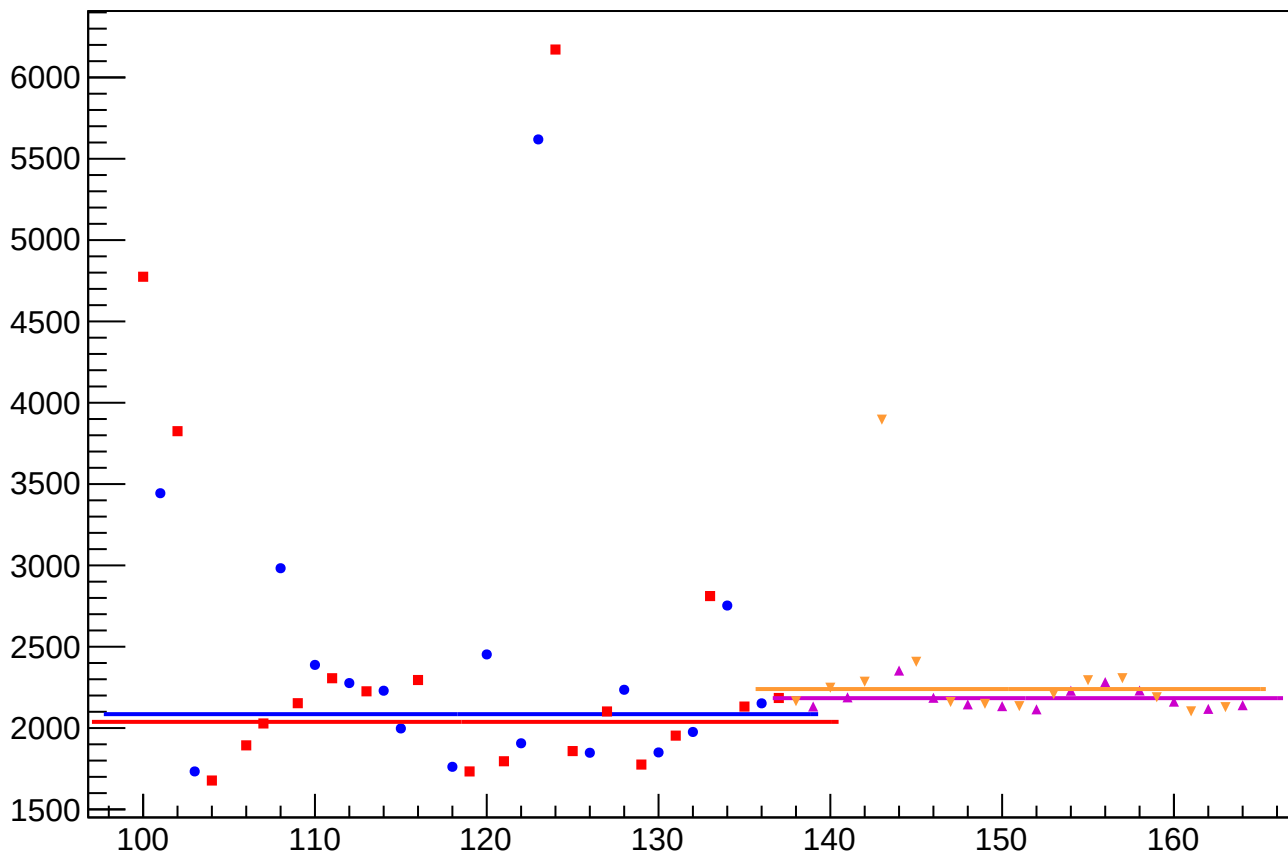
Right: 2216.175 $\pm$ 570.293  $\chi^2/\text{NDF}$ : 34.6/35

In: 3075.607 $\pm$ 522.826  $\chi^2/\text{NDF}$ :16.3/29

Out: 307.326 $\pm$ 521.801  $\chi^2/\text{NDF}$ :64.6/32

All: 1688.749 $\pm$ 369.331  $\chi^2/\text{NDF}$ : 94.9/62

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



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

Left Out: 2239.787+/-0.490  $\chi^2/\text{NDF}$ : 273047.2/13

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

Left In: 2183.793+/-0.479  $\chi^2/\text{NDF}$ : 19453.9/12

Left: 2211.133+/-0.343  $\chi^2/\text{NDF}$ : 299169.9/26

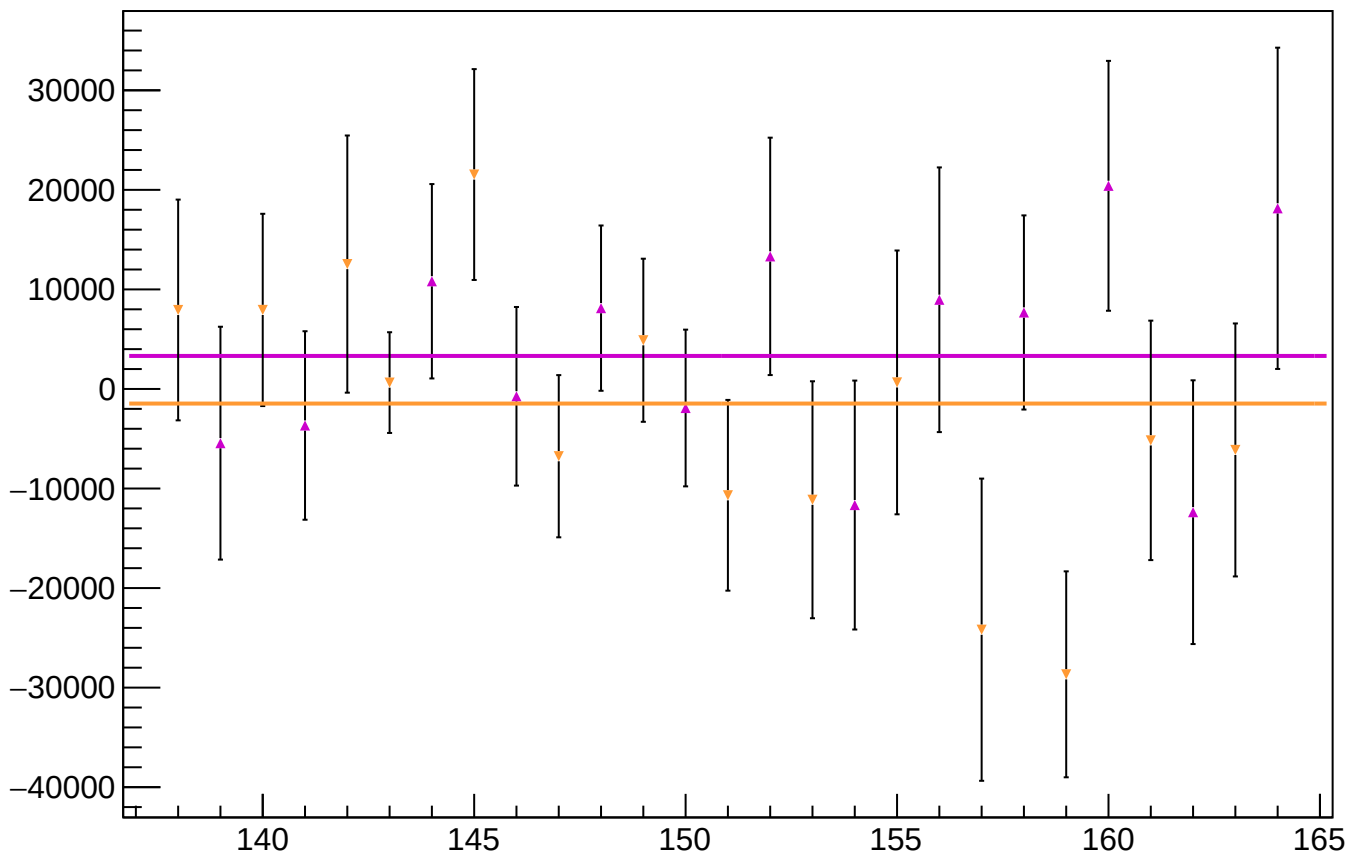
Right: 2060.877+/-0.403  $\chi^2/\text{NDF}$ : 1069728.5/35

In: 2144.009+/-0.370  $\chi^2/\text{NDF}$ : 493560.3/29

Out: 2152.188+/-0.369  $\chi^2/\text{NDF}$ : 955710.1/32

All: 2148.107+/-0.261  $\chi^2/\text{NDF}$ : 1449515.6/62

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



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

Left Out: -1466.277+/-2554.343  $\chi^2/\text{NDF}$ :19.8/13

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

Left In: 3317.413+/-2916.934  $\chi^2/\text{NDF}$ :9.3/12

Left: 609.931+/-1921.678  $\chi^2/\text{NDF}$ : 30.6/26

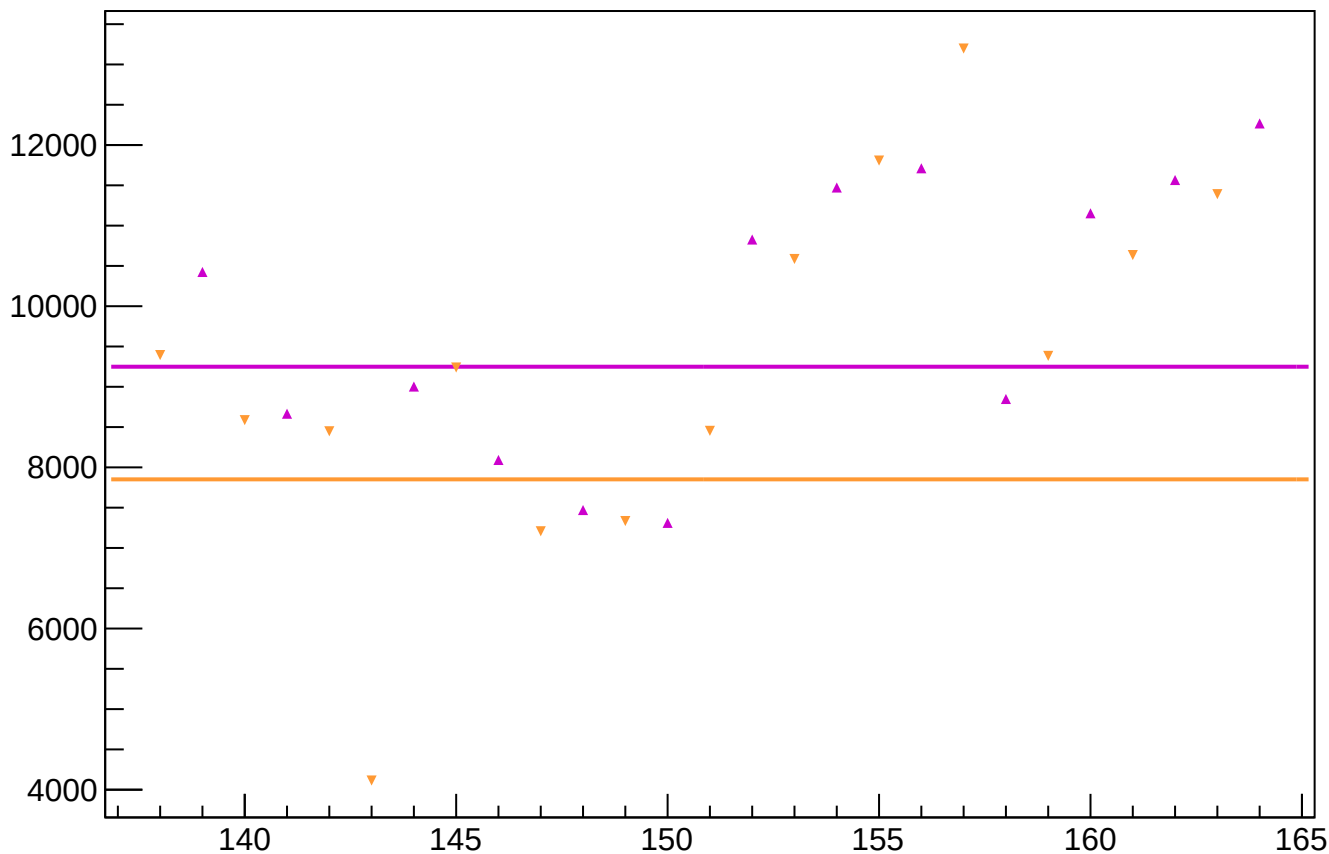
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3317.413+/-2916.934  $\chi^2/\text{NDF}$ :9.3/12

Out: -1466.277+/-2554.343  $\chi^2/\text{NDF}$ :19.8/13

All: 609.931+/-1921.678  $\chi^2/\text{NDF}$ : 30.6/26

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



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

Left Out: 7851.311+/-1.806  $\chi^2/\text{NDF}$ :2047147.0/13

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

Left In: 9249.107+/-2.063  $\chi^2/\text{NDF}$ :622910.8/12

Left: 8457.980+/-1.359  $\chi^2/\text{NDF}$ : 2929994.2/26

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

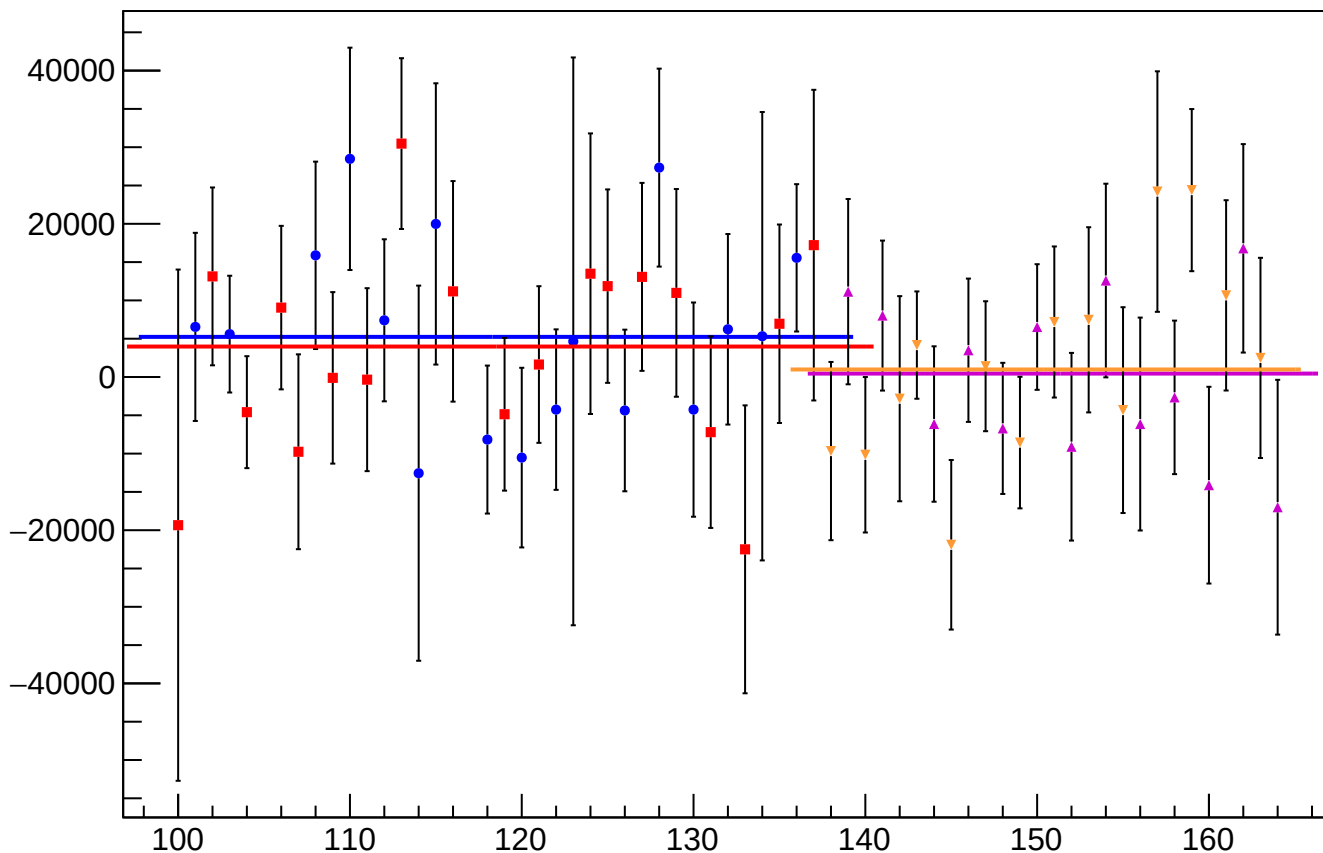
In: 9249.107+/-2.063  $\chi^2/\text{NDF}$ :622910.8/12

Out: 7851.311+/-1.806  $\chi^2/\text{NDF}$ :2047147.0/13

All: 8457.980+/-1.359  $\chi^2/\text{NDF}$ : 2929994.2/26



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



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

Left Out: 982.652+/-2809.890  $\chi^2/\text{NDF}$ : 16.4/13

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

Left In: 446.863+/-3014.152  $\chi^2/\text{NDF}$ : 8.8/12

Left: 733.526+/-2055.313  $\chi^2/\text{NDF}$ : 25.2/26

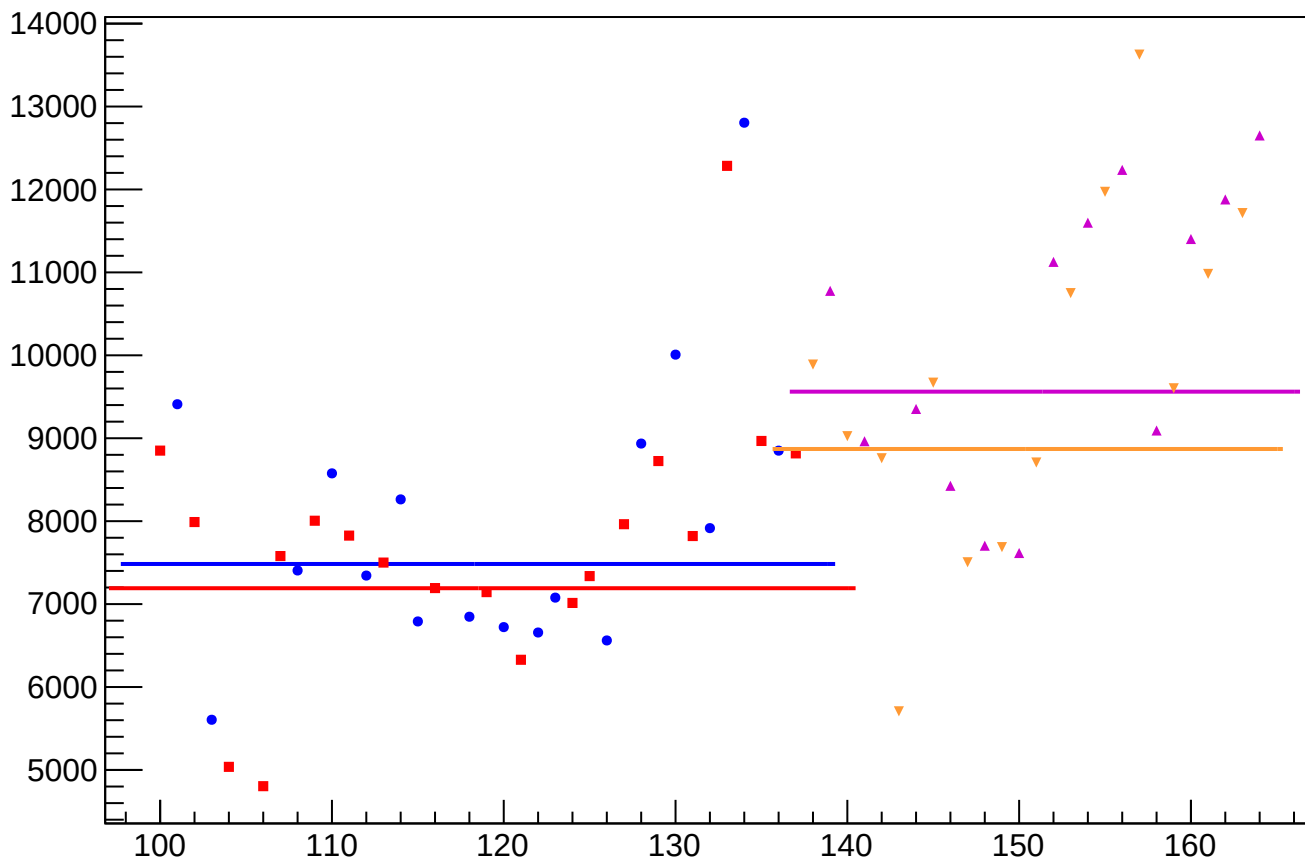
Right: 4573.057+/-2025.948  $\chi^2/\text{NDF}$ : 30.2/35

In: 2897.359+/-2106.879  $\chi^2/\text{NDF}$ : 24.6/29

Out: 2489.763+/-1979.973  $\chi^2/\text{NDF}$ : 32.6/32

All: 2680.916+/-1442.832  $\chi^2/\text{NDF}$ : 57.2/62

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



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

Left Out: 8870.425+/-1.987  $\chi^2/\text{NDF}$ : 1025118.2/13

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

Left In: 9561.702+/-2.131  $\chi^2/\text{NDF}$ : 595962.8/12

Left: 9191.849+/-1.453  $\chi^2/\text{NDF}$ : 1677364.5/26

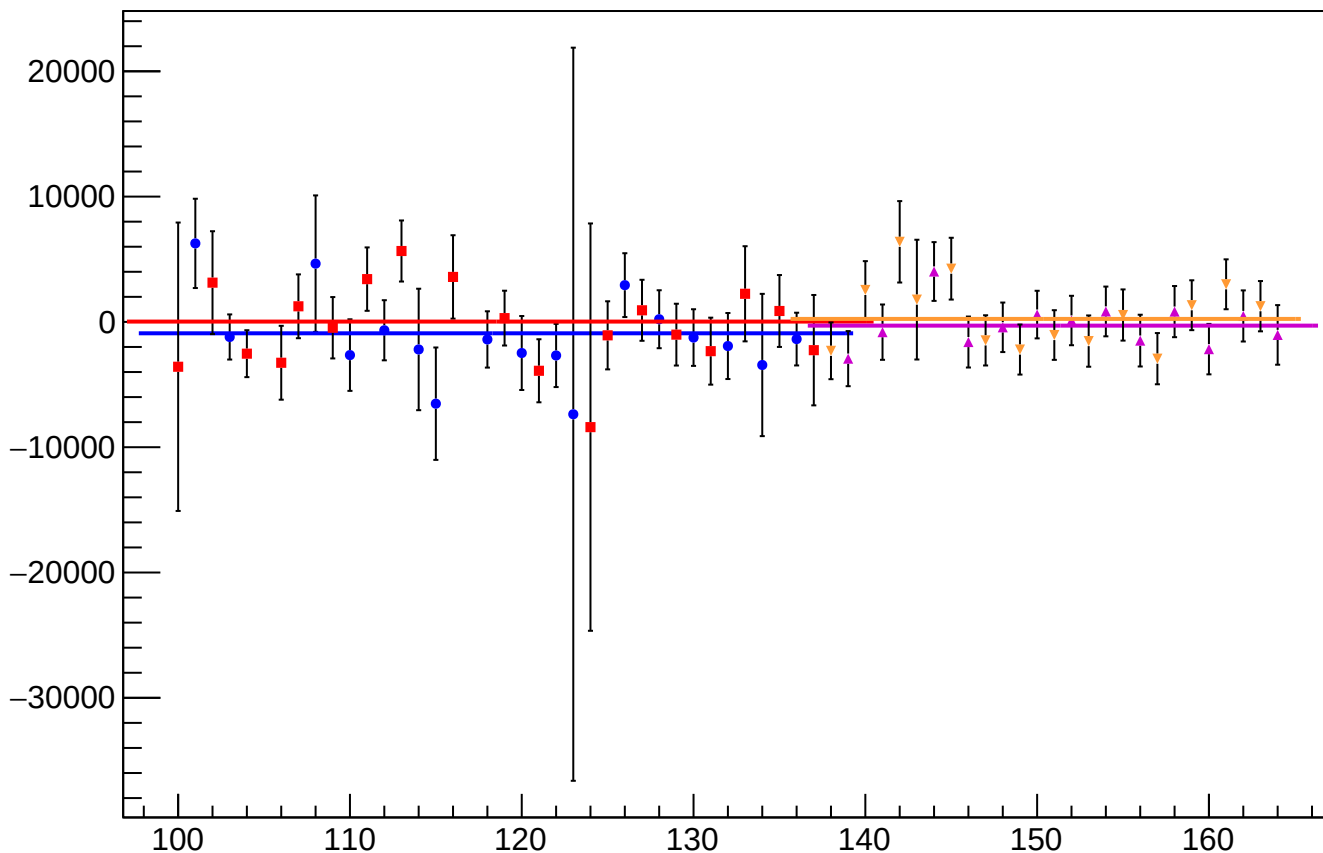
Right: 7329.673+/-1.432  $\chi^2/\text{NDF}$ : 1000940.7/35

In: 8499.018+/-1.490  $\chi^2/\text{NDF}$ : 1513876.1/29

Out: 8024.994+/-1.400  $\chi^2/\text{NDF}$ : 1943433.2/32

All: 8247.288+/-1.020  $\chi^2/\text{NDF}$ : 3511073.9/62

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



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

Left Out:  $238.856 \pm 585.948$   $\chi^2/\text{NDF}: 16.9/13$

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

Left In:  $-297.204 \pm 575.598$   $\chi^2/\text{NDF}: 7.6/12$

Left:  $-33.950 \pm 410.620$   $\chi^2/\text{NDF}: 25.0/26$

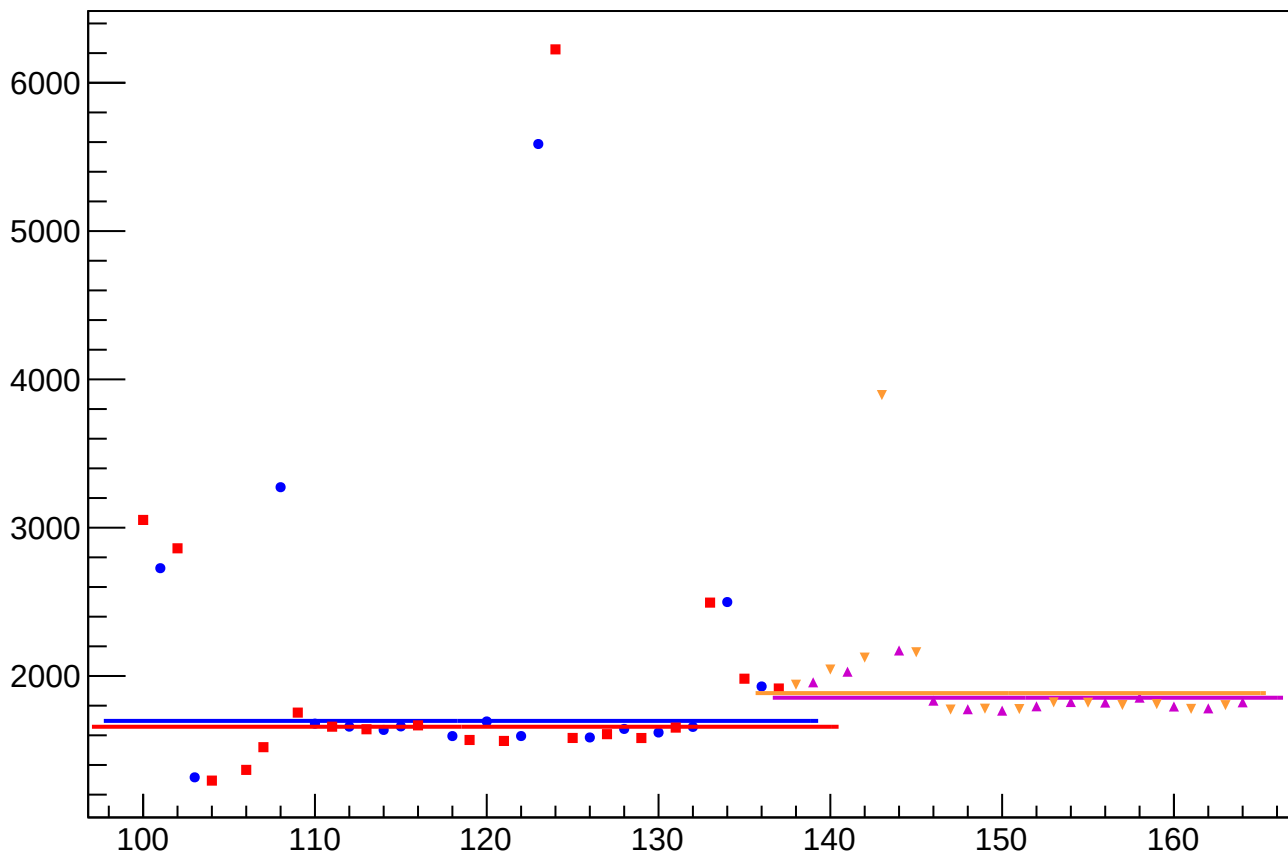
Right:  $-420.467 \pm 464.048$   $\chi^2/\text{NDF}: 29.0/35$

In:  $-556.439 \pm 436.979$   $\chi^2/\text{NDF}: 19.1/29$

Out:  $142.404 \pm 432.833$   $\chi^2/\text{NDF}: 34.0/32$

All:  $-203.686 \pm 307.515$   $\chi^2/\text{NDF}: 54.3/62$

# 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:  $1884.604 \pm 0.414$   $\chi^2/\text{NDF}: 436629.8/13$

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

Left In:  $1853.403 \pm 0.407$   $\chi^2/\text{NDF}: 68686.4/12$

Left:  $1868.725 \pm 0.290$   $\chi^2/\text{NDF}: 508202.2/26$

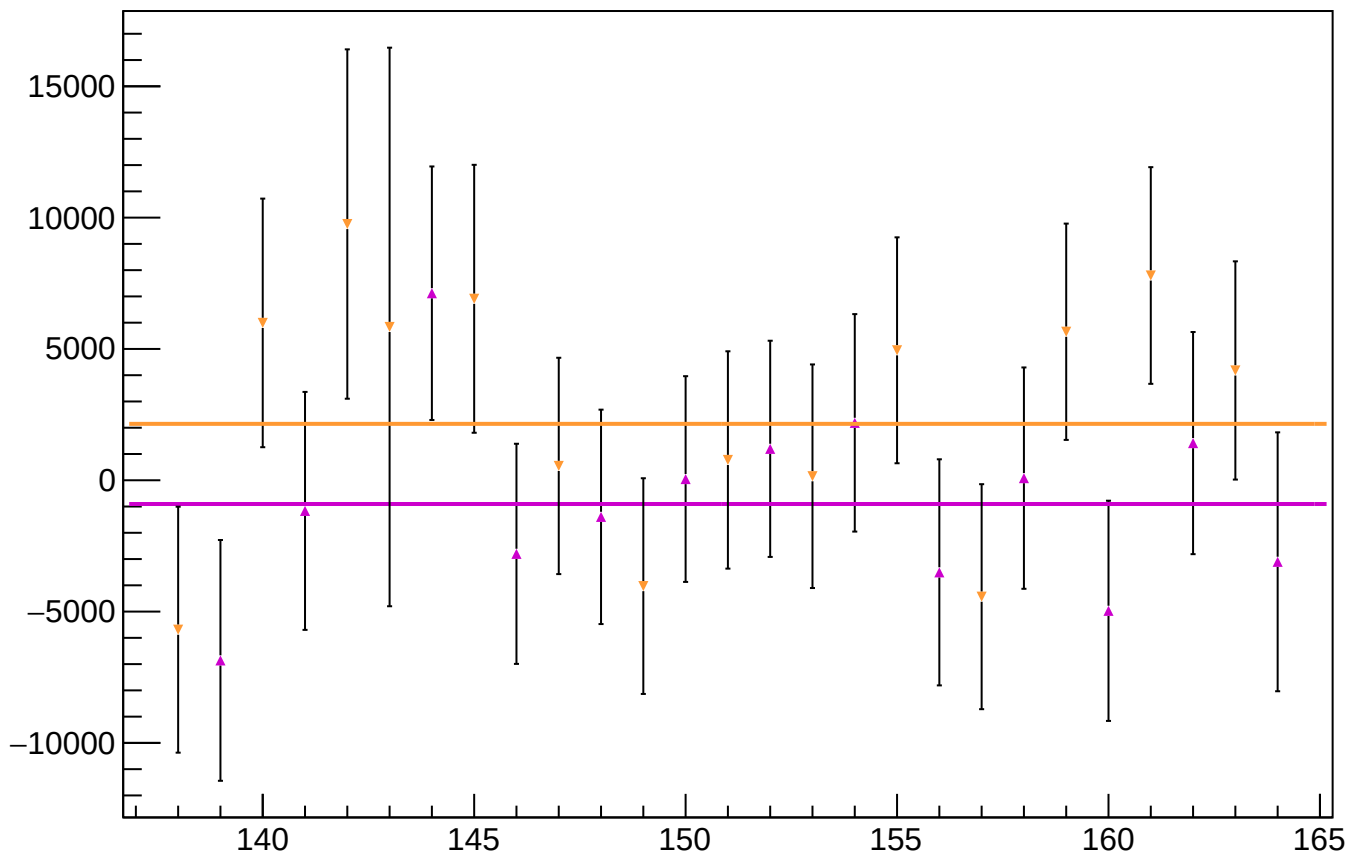
Right:  $1676.599 \pm 0.328$   $\chi^2/\text{NDF}: 1146353.4/35$

In:  $1787.243 \pm 0.309$   $\chi^2/\text{NDF}: 670780.7/29$

Out:  $1781.520 \pm 0.306$   $\chi^2/\text{NDF}: 1175880.5/32$

All:  $1784.354 \pm 0.217$   $\chi^2/\text{NDF}: 1846834.4/62$

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



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

Left Out: 2147.725+/-1216.066  $\chi^2/\text{NDF}$ :14.1/13

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

Left In: -903.877+/-1192.655  $\chi^2/\text{NDF}$ :7.4/12

Left: 592.267+/-851.491  $\chi^2/\text{NDF}$ : 24.8/26

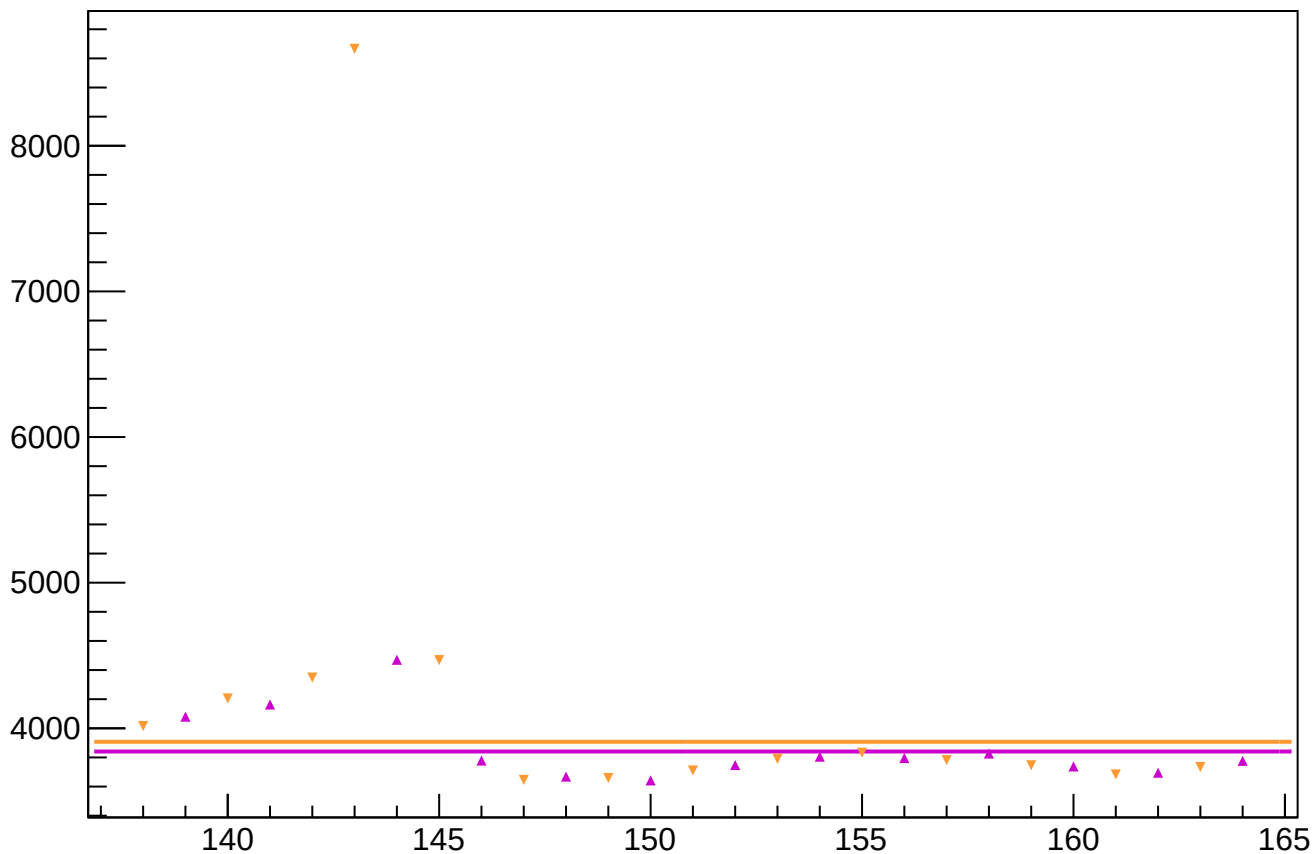
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -903.877+/-1192.655  $\chi^2/\text{NDF}$ :7.4/12

Out: 2147.725+/-1216.066  $\chi^2/\text{NDF}$ :14.1/13

All: 592.267+/-851.491  $\chi^2/\text{NDF}$ : 24.8/26

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



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

Left Out: 3907.472+/-0.860  $\chi^2/\text{NDF}$ : 478696.5/13

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

Left In: 3840.771+/-0.843  $\chi^2/\text{NDF}$ : 64119.1/12

Left: 3873.473+/-0.602  $\chi^2/\text{NDF}$ : 545882.5/26

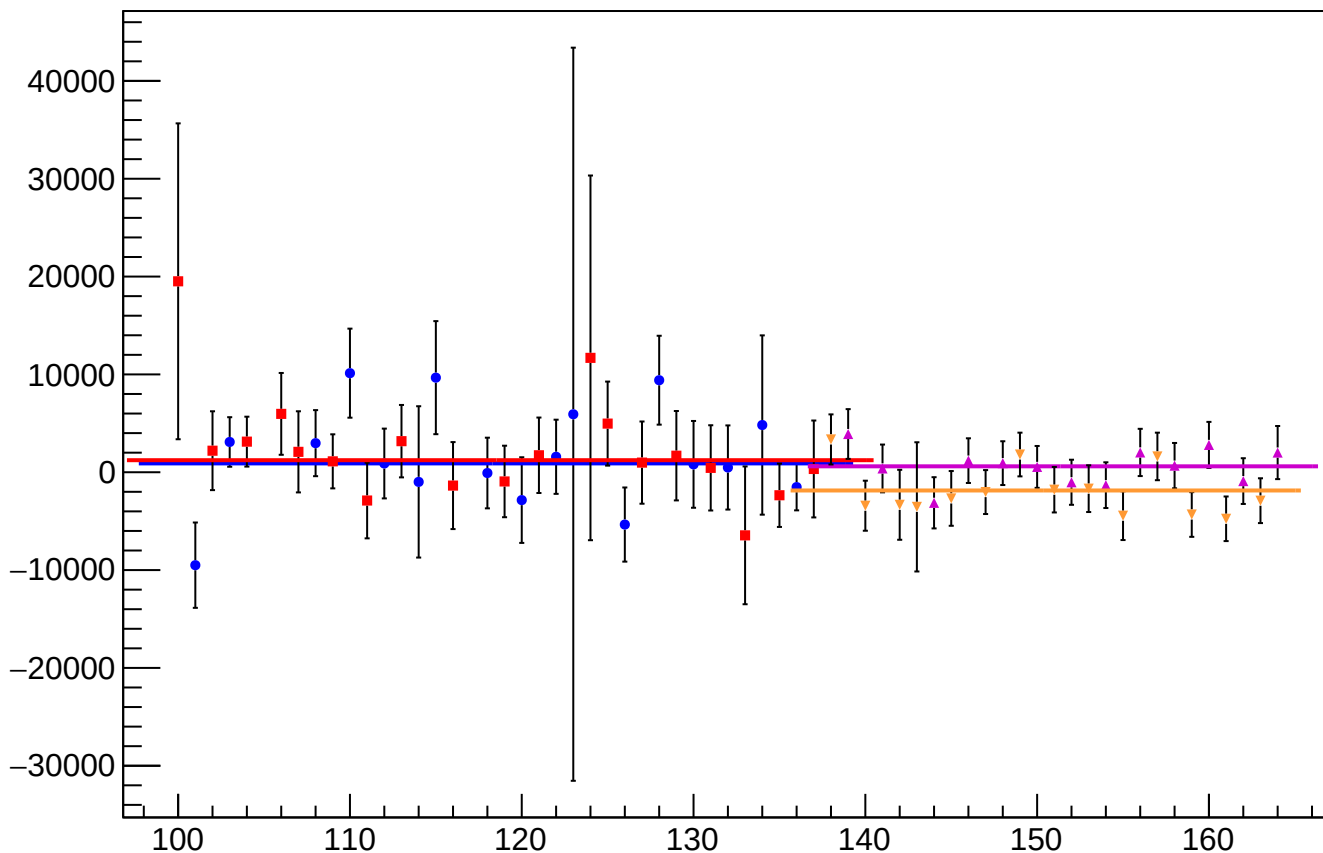
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3840.771+/-0.843  $\chi^2/\text{NDF}$ : 64119.1/12

Out: 3907.472+/-0.860  $\chi^2/\text{NDF}$ : 478696.5/13

All: 3873.473+/-0.602  $\chi^2/\text{NDF}$ : 545882.5/26

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



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

Left Out: -1863.443 $\pm$ 674.296  $\chi^2$ /NDF:13.7/13

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

Left In: 605.176 $\pm$ 658.418  $\chi^2$ /NDF:6.9/12

Left: -599.727 $\pm$ 471.085  $\chi^2$ /NDF: 27.4/26

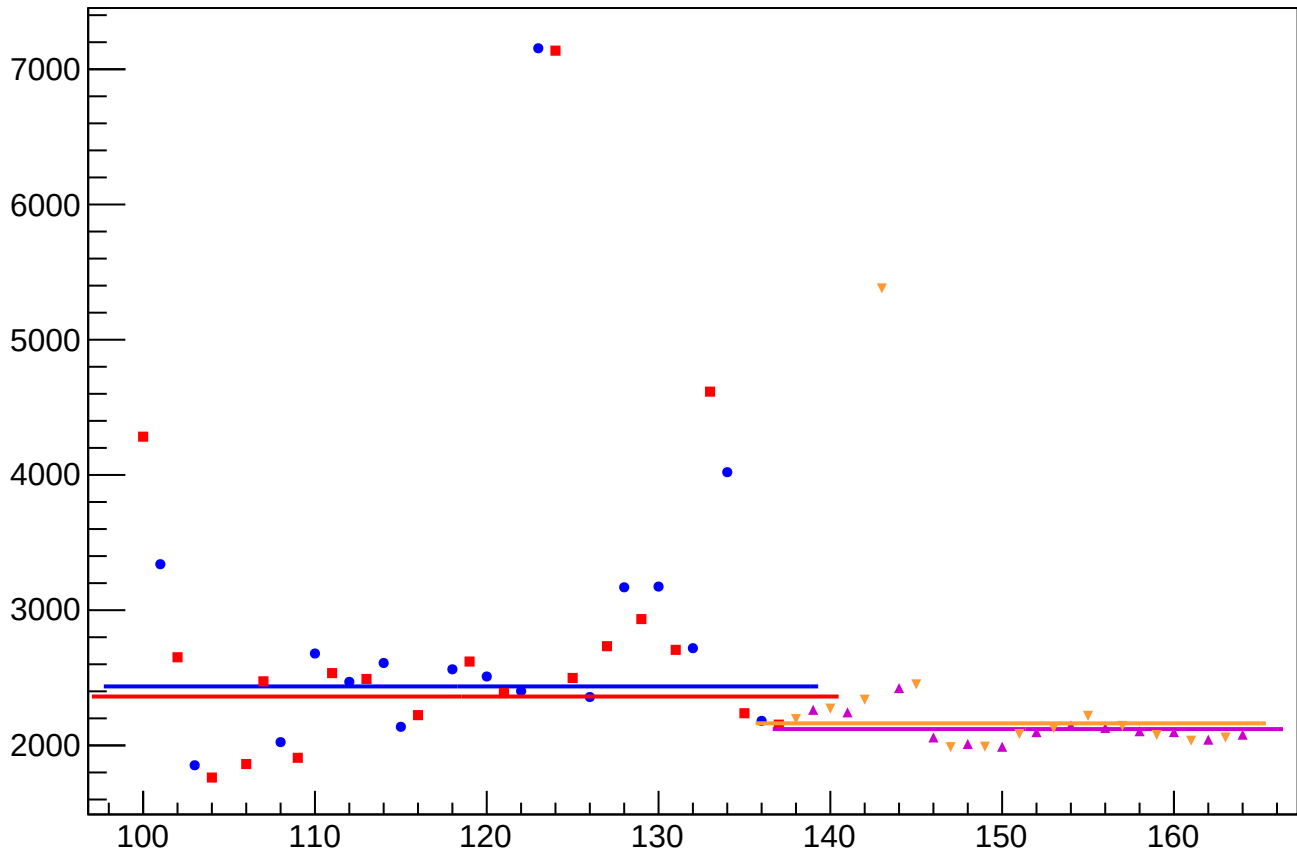
Right: 1073.549 $\pm$ 666.754  $\chi^2$ /NDF: 30.6/35

In: 700.282 $\pm$ 543.328  $\chi^2$ /NDF:28.5/29

Out: -789.710 $\pm$ 544.893  $\chi^2$ /NDF:29.9/32

All: -42.570 $\pm$ 384.743  $\chi^2$ /NDF: 62.2/62

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



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

Left Out: 2163.173 $\pm$ 0.477  $\chi^2/\text{NDF}$ : 545894.4/13

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

Left In: 2120.782 $\pm$ 0.466  $\chi^2/\text{NDF}$ : 55428.6/12

Left: 2141.472 $\pm$ 0.333  $\chi^2/\text{NDF}$ : 605369.4/26

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

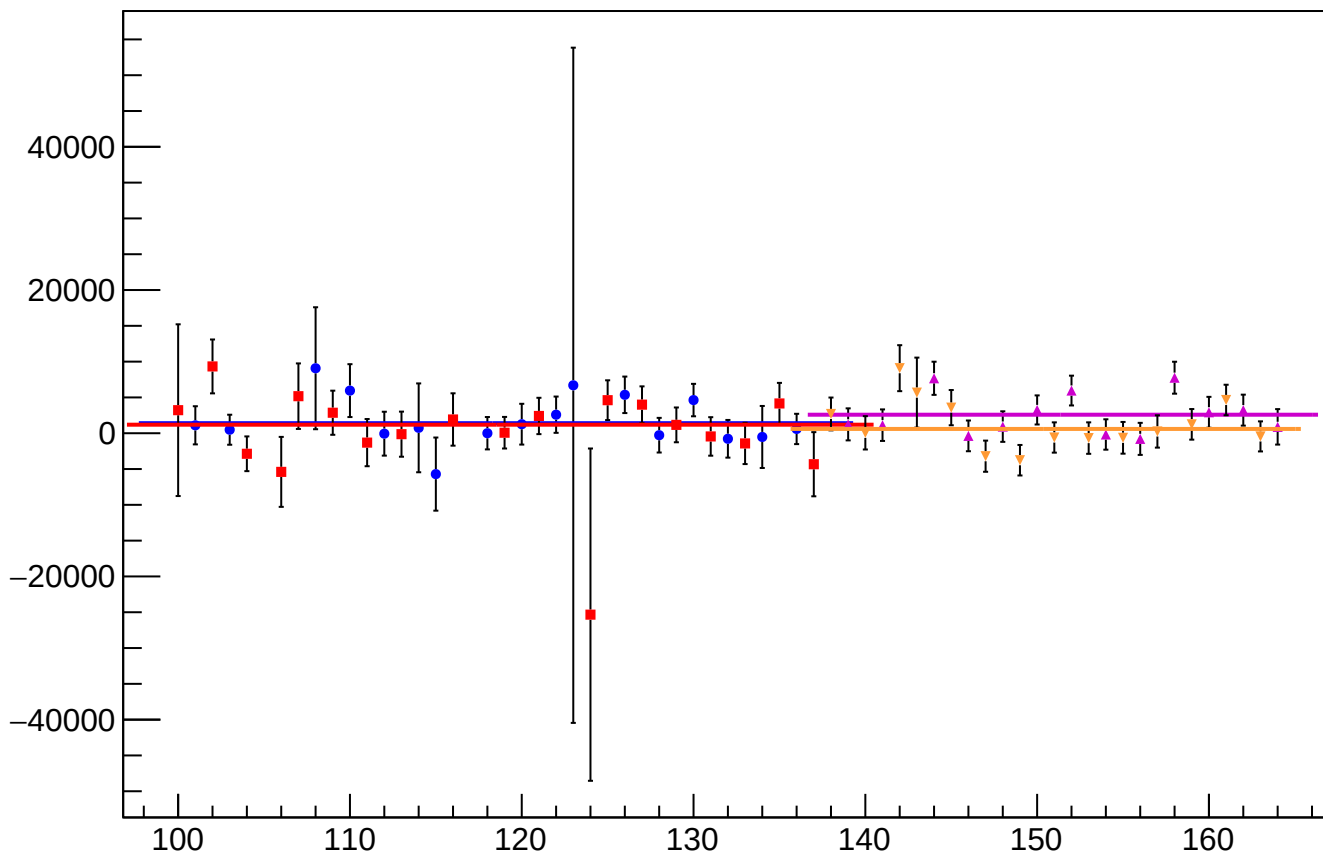
In: 2221.432 $\pm$ 0.384  $\chi^2/\text{NDF}$ : 670469.4/29

Out: 2232.010 $\pm$ 0.385  $\chi^2/\text{NDF}$ : 1261811.3/32

All: 2226.706 $\pm$ 0.272  $\chi^2/\text{NDF}$ : 1932658.7/62



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



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

Left Out: 599.985+/-619.335  $\chi^2/\text{NDF}$ : 22.6/13

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

Left In: 2585.634+/-606.547  $\chi^2/\text{NDF}$ : 20.8/12

Left: 1613.520+/-433.344  $\chi^2/\text{NDF}$ : 48.6/26

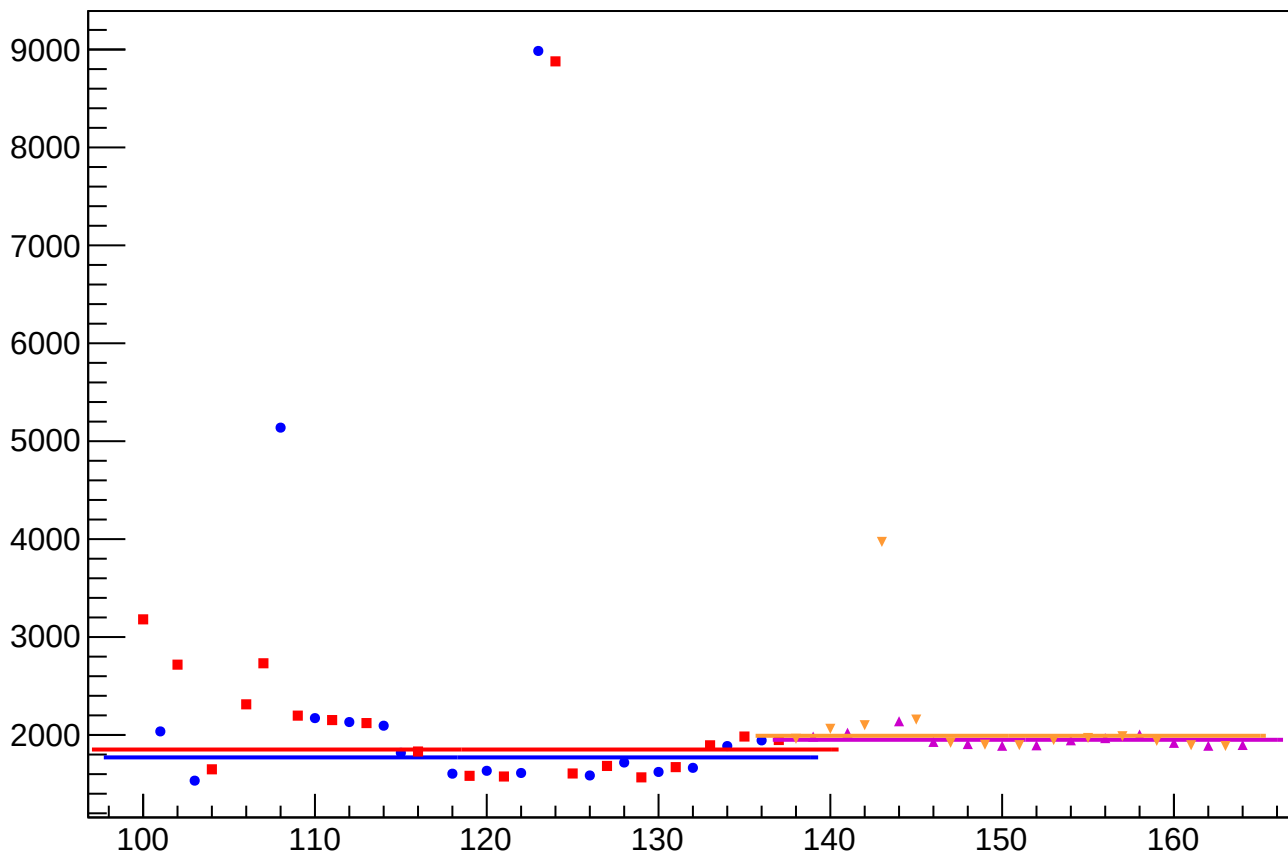
Right: 1298.390+/-500.185  $\chi^2/\text{NDF}$ : 30.8/35

In: 2077.168+/-458.323  $\chi^2/\text{NDF}$ : 33.7/29

Out: 853.537+/-468.207  $\chi^2/\text{NDF}$ : 42.5/32

All: 1478.404+/-327.522  $\chi^2/\text{NDF}$ : 79.7/62

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



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

Left Out: 1991.725 $\pm$ 0.438  $\chi^2$ /NDF: 362765.3/13

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

Left In: 1950.652 $\pm$ 0.429  $\chi^2$ /NDF: 24441.0/12

Left: 1970.760 $\pm$ 0.306  $\chi^2$ /NDF: 391695.9/26

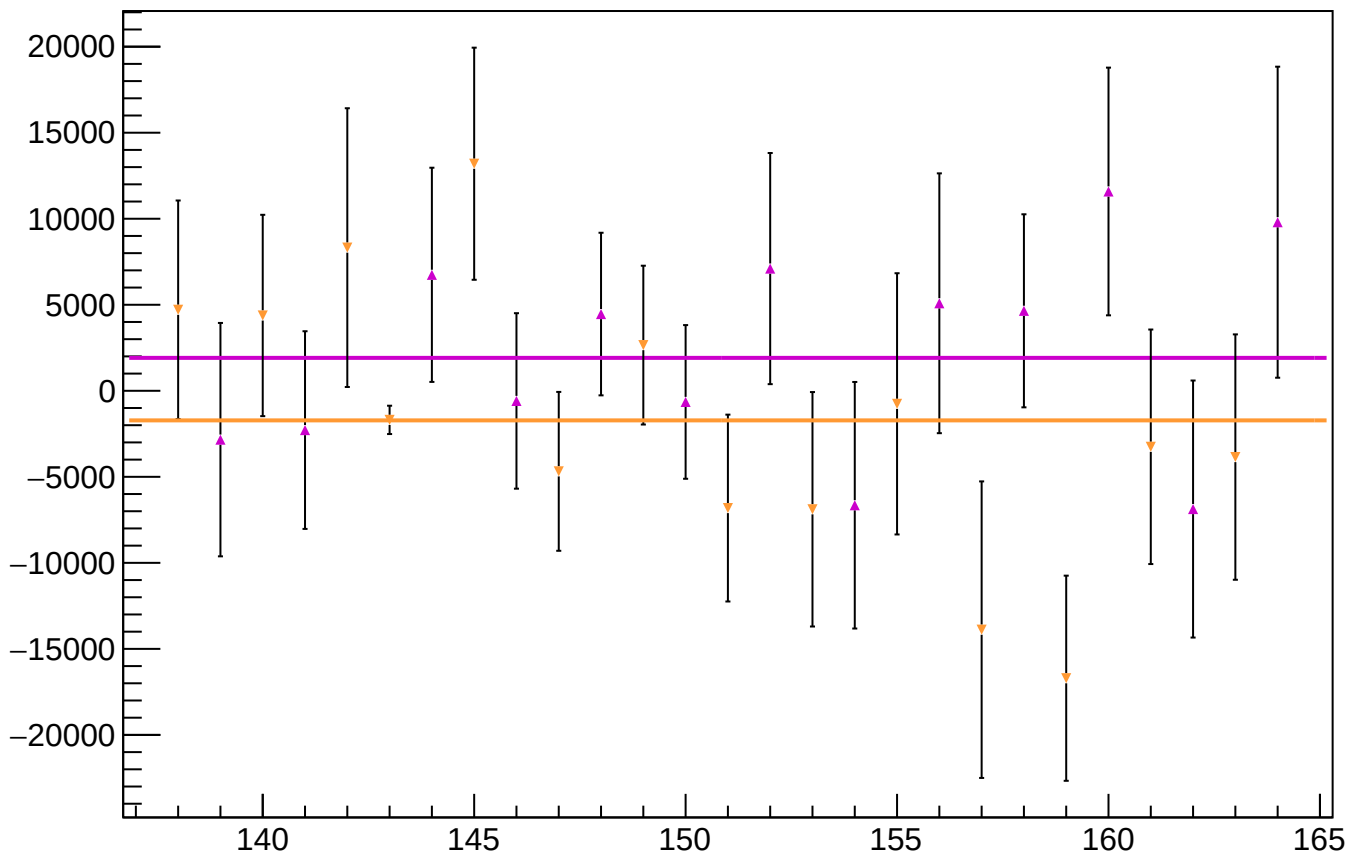
Right: 1810.335 $\pm$ 0.353  $\chi^2$ /NDF: 1134452.8/35

In: 1873.560 $\pm$ 0.324  $\chi^2$ /NDF: 623333.1/29

Out: 1931.506 $\pm$ 0.331  $\chi^2$ /NDF: 1004765.4/32

All: 1901.930 $\pm$ 0.232  $\chi^2$ /NDF: 1643750.2/62

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



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

Left Out: -1719.588+/-742.177  $\chi^2/\text{NDF}$ :19.8/13

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

Left In: 1913.614+/-1686.366  $\chi^2/\text{NDF}$ :8.9/12

Left: -1130.055+/-679.300  $\chi^2/\text{NDF}$ : 32.5/26

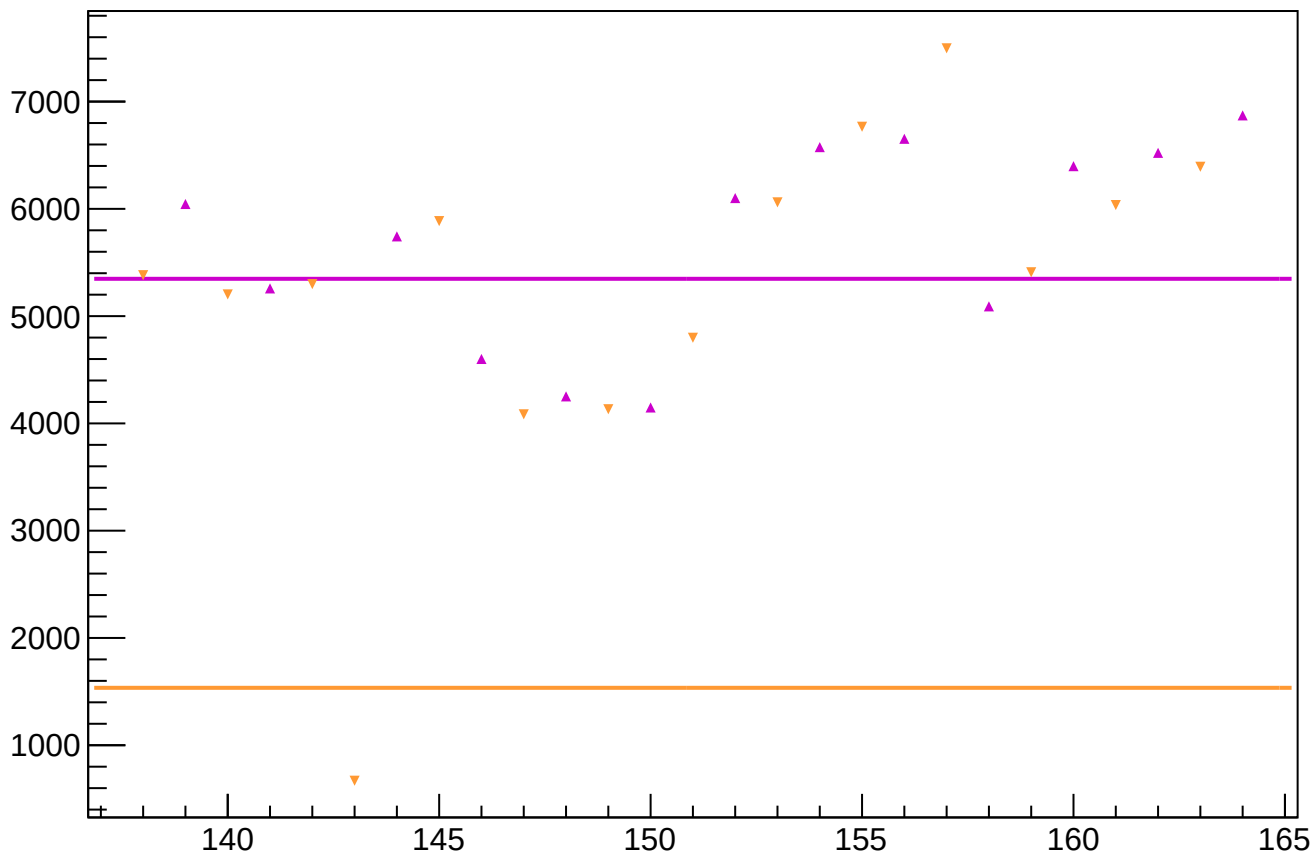
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1913.614+/-1686.366  $\chi^2/\text{NDF}$ :8.9/12

Out: -1719.588+/-742.177  $\chi^2/\text{NDF}$ :19.8/13

All: -1130.055+/-679.300  $\chi^2/\text{NDF}$ : 32.5/26

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



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

Left Out: 1535.270+/-0.525  $\chi^2/\text{NDF}$ :12394124.3/13

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

Left In: 5347.952+/-1.192  $\chi^2/\text{NDF}$ :621067.4/12

Left: 2153.926+/-0.480  $\chi^2/\text{NDF}$ : 21579553.2/26

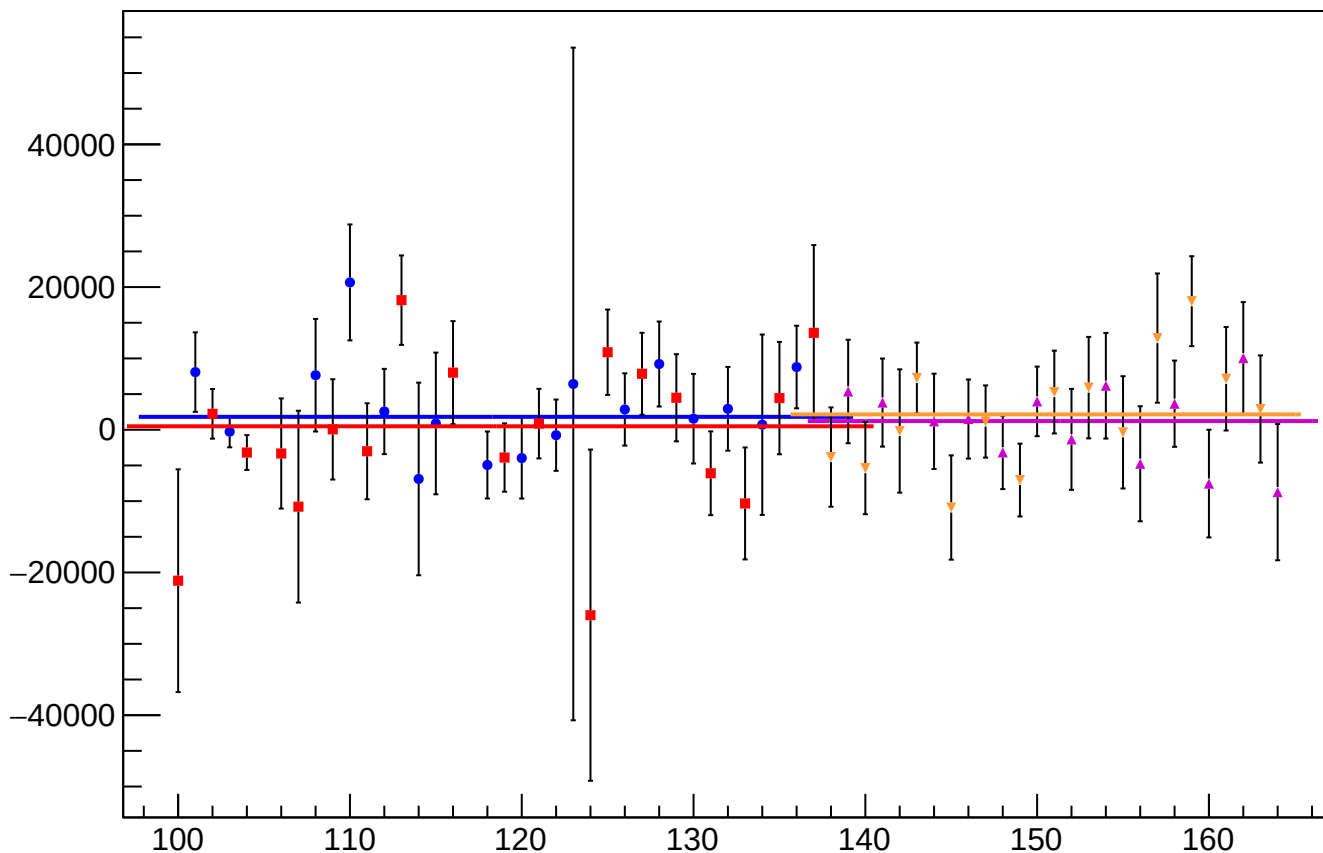
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5347.952+/-1.192  $\chi^2/\text{NDF}$ :621067.4/12

Out: 1535.270+/-0.525  $\chi^2/\text{NDF}$ :12394124.3/13

All: 2153.926+/-0.480  $\chi^2/\text{NDF}$ : 21579553.2/26

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



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

Left Out: 2157.233+/-1728.712  $\chi^2/\text{NDF}$ : 18.6/13

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

Left In: 1220.616+/-1808.284  $\chi^2/\text{NDF}$ : 6.5/12

Left: 1709.985+/-1249.568  $\chi^2/\text{NDF}$ : 25.3/26

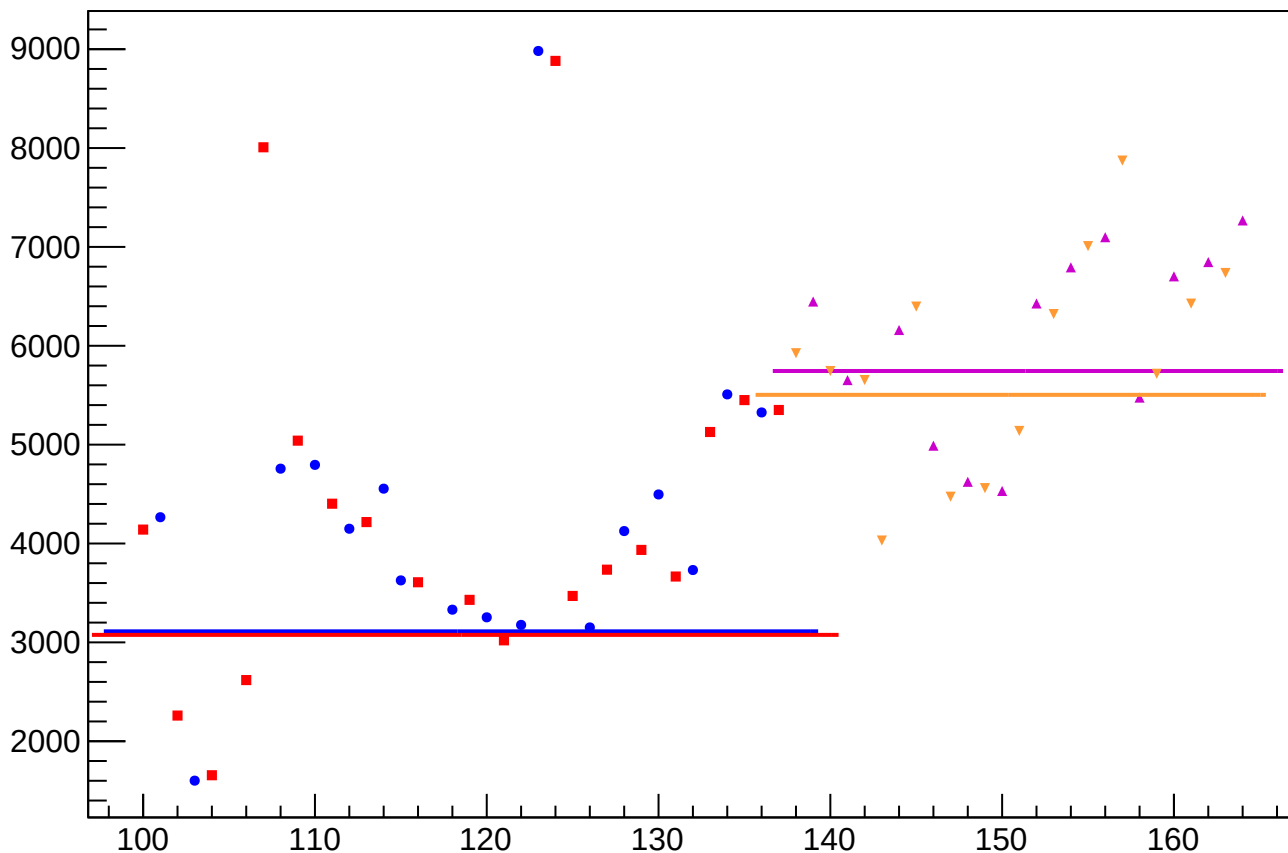
Right: 1143.505+/-914.731  $\chi^2/\text{NDF}$ : 42.0/35

In: 1611.722+/-1056.240  $\chi^2/\text{NDF}$ : 21.6/29

Out: 1082.938+/-1031.848  $\chi^2/\text{NDF}$ : 45.7/32

All: 1341.154+/-738.100  $\chi^2/\text{NDF}$ : 67.4/62

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



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

Left Out: 5503.687+/-1.222  $\chi^2/\text{NDF}$ : 701269.9/13

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

Left In: 5744.949+/-1.279  $\chi^2/\text{NDF}$ : 524265.8/12

Left: 5618.893+/-0.884  $\chi^2/\text{NDF}$ : 1244137.3/26

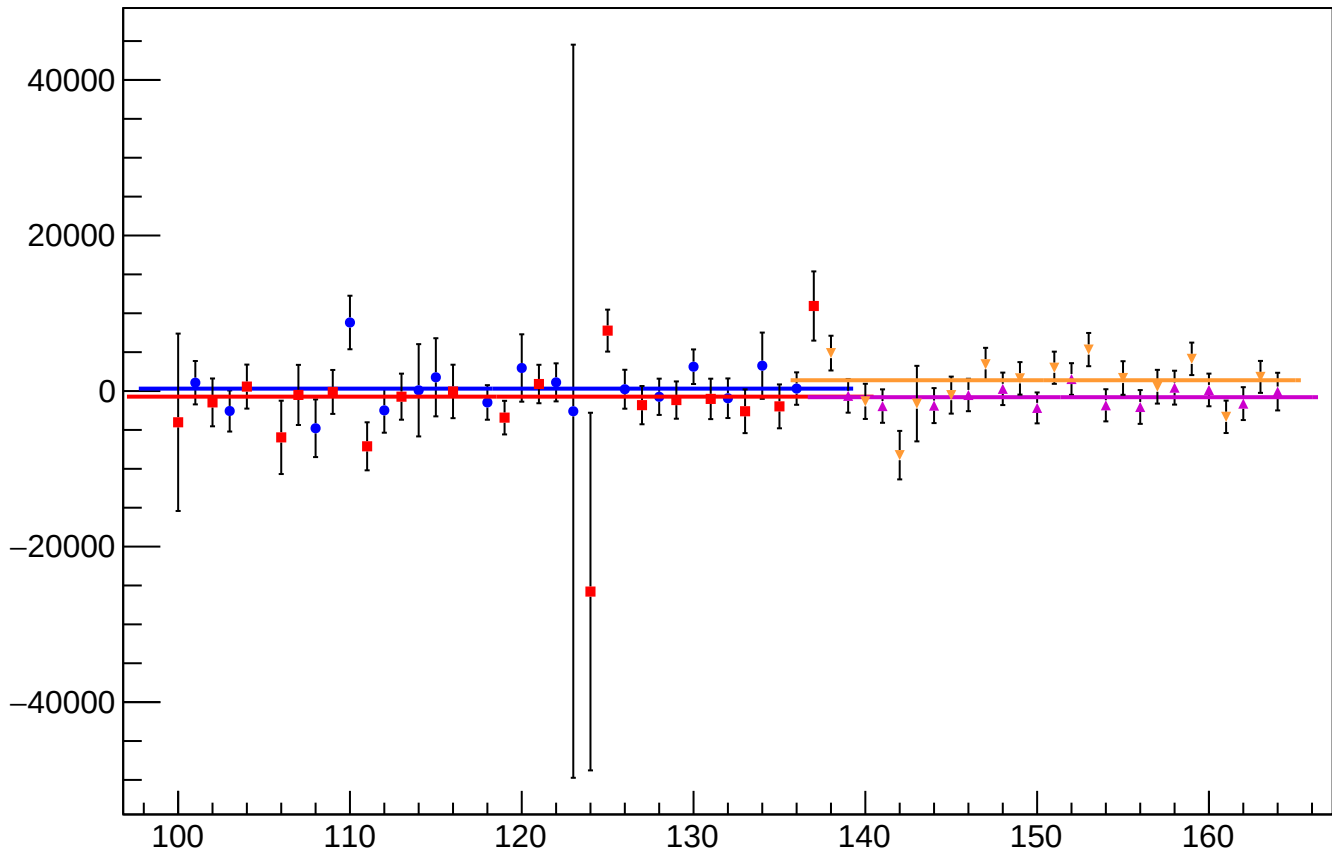
Right: 3093.209+/-0.642  $\chi^2/\text{NDF}$ : 3889323.9/35

In: 4010.031+/-0.747  $\chi^2/\text{NDF}$ : 5197671.7/29

Out: 3924.629+/-0.723  $\chi^2/\text{NDF}$ : 5276557.5/32

All: 3965.930+/-0.519  $\chi^2/\text{NDF}$ : 10480981.0/6

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



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

Left Out: 1389.593+/-603.352  $\chi^2/\text{NDF}$ : 26.5/13

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

Left In: -789.557+/-591.454  $\chi^2/\text{NDF}$ : 3.9/12

Left: 278.319+/-422.365  $\chi^2/\text{NDF}$ : 37.1/26

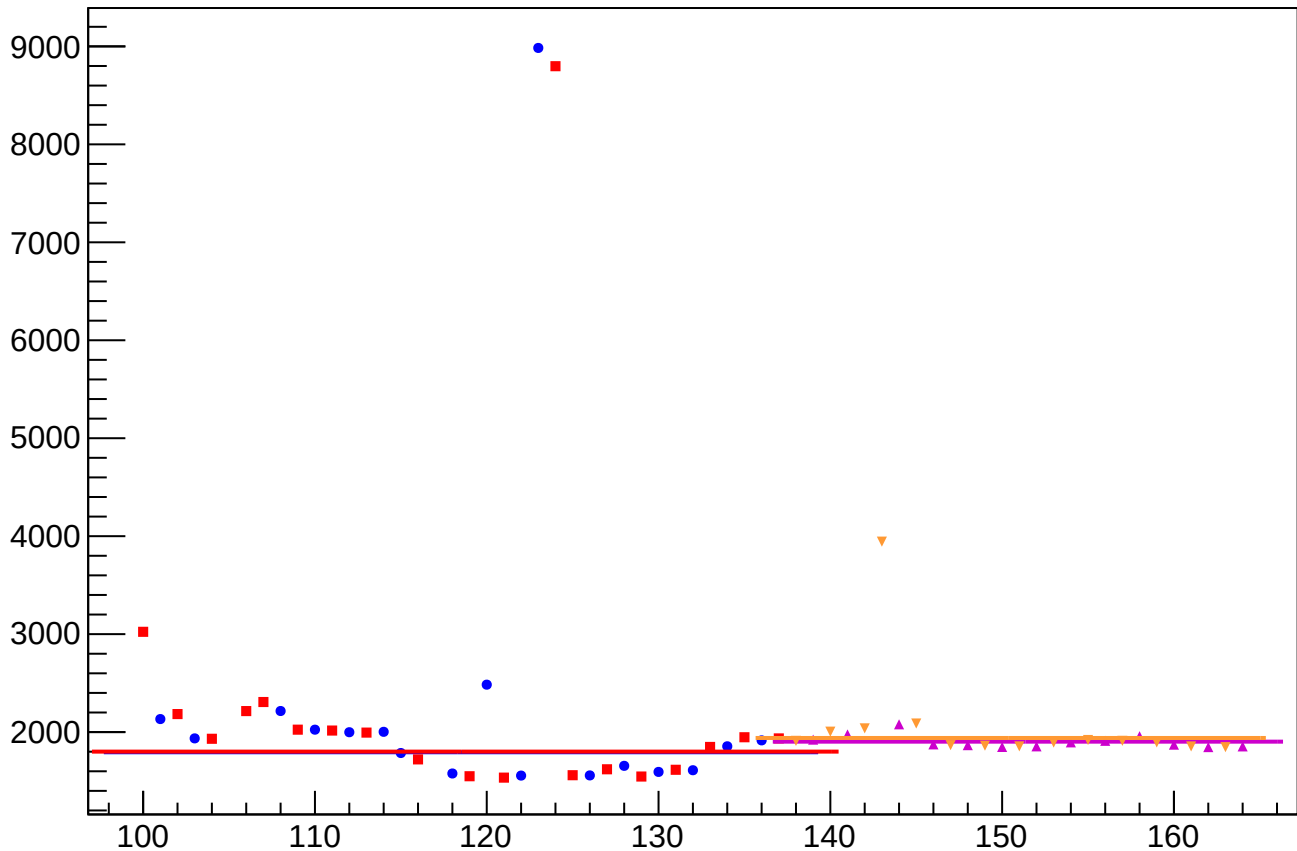
Right: -212.074+/-493.103  $\chi^2/\text{NDF}$ : 41.8/35

In: -333.076+/-452.447  $\chi^2/\text{NDF}$ : 19.3/29

Out: 478.976+/-454.861  $\chi^2/\text{NDF}$ : 58.5/32

All: 70.790+/-320.778  $\chi^2/\text{NDF}$ : 79.4/62

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



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

Left Out: 1939.984+/-0.427  $\chi^2/\text{NDF}$ : 371110.1/13

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

Left In: 1902.402+/-0.418  $\chi^2/\text{NDF}$ : 22421.3/12

Left: 1920.819+/-0.299  $\chi^2/\text{NDF}$ : 397488.6/26

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

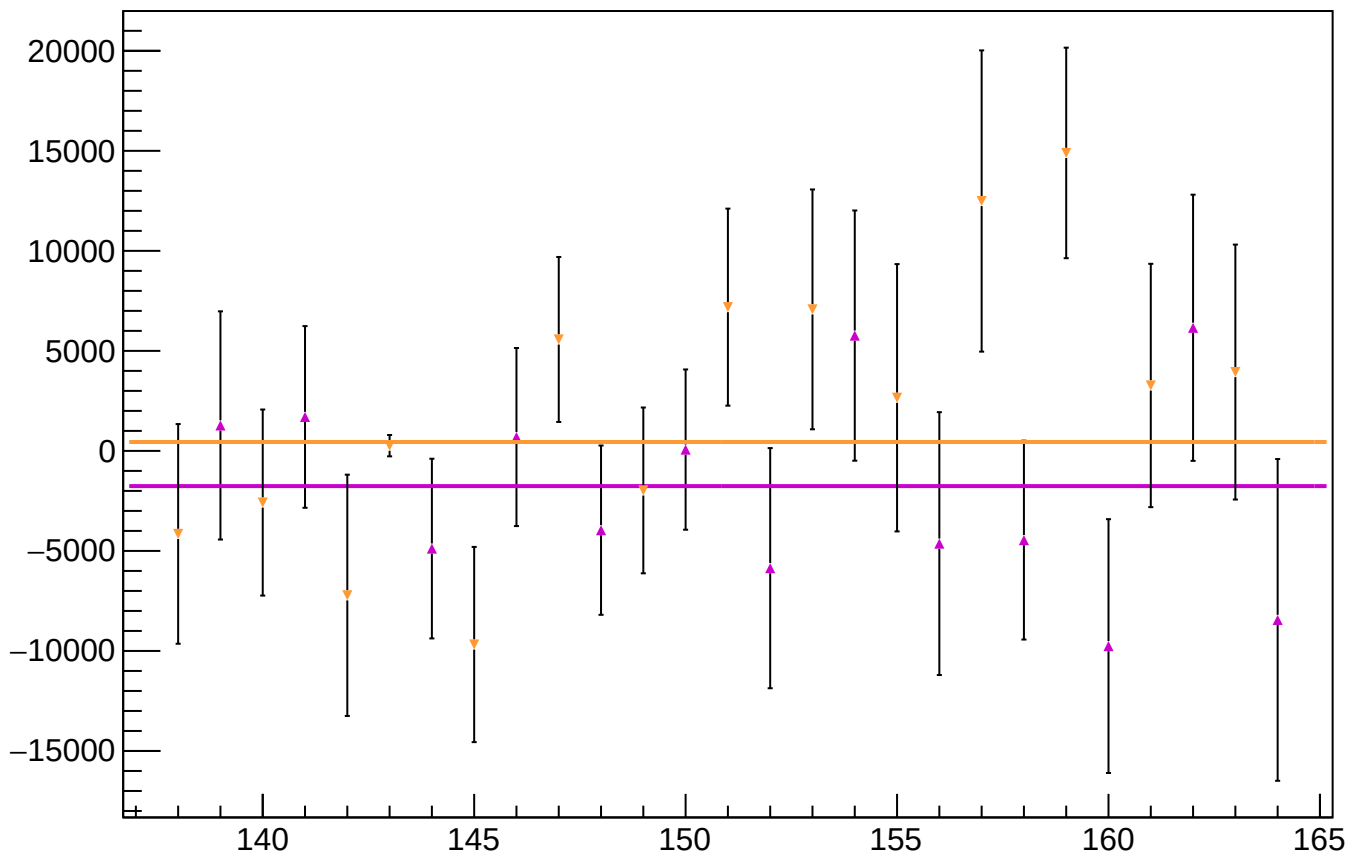
In: 1857.470+/-0.320  $\chi^2/\text{NDF}$ : 326933.6/29

Out: 1879.776+/-0.321  $\chi^2/\text{NDF}$ : 862018.8/32

All: 1868.571+/-0.227  $\chi^2/\text{NDF}$ : 1191371.7/62



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



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

Left Out: 444.613+/-501.848  $\chi^2/\text{NDF}$ : 22.9/13

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

Left In: -1759.513+/-1447.453  $\chi^2/\text{NDF}$ : 8.2/12

Left: 208.090+/-474.157  $\chi^2/\text{NDF}$ : 33.2/26

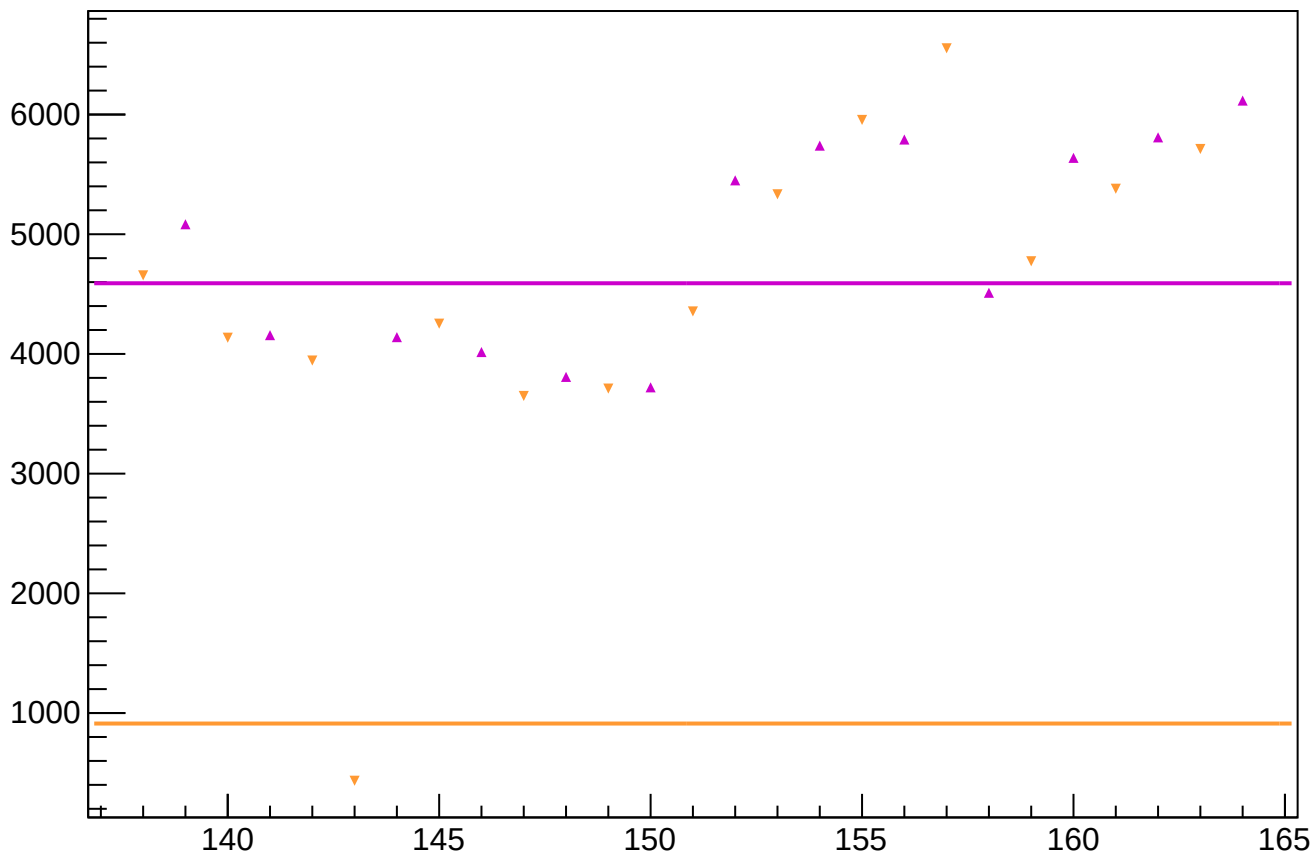
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1759.513+/-1447.453  $\chi^2/\text{NDF}$ : 8.2/12

Out: 444.613+/-501.848  $\chi^2/\text{NDF}$ : 22.9/13

All: 208.090+/-474.157  $\chi^2/\text{NDF}$ : 33.2/26

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



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

Left Out: 912.326+/-0.355  $\chi^2/\text{NDF}$ :14346702.4/13

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

Left In: 4590.483+/-1.024  $\chi^2/\text{NDF}$ :618767.4/12

Left: 1307.025+/-0.335  $\chi^2/\text{NDF}$ : 26494229.8/26

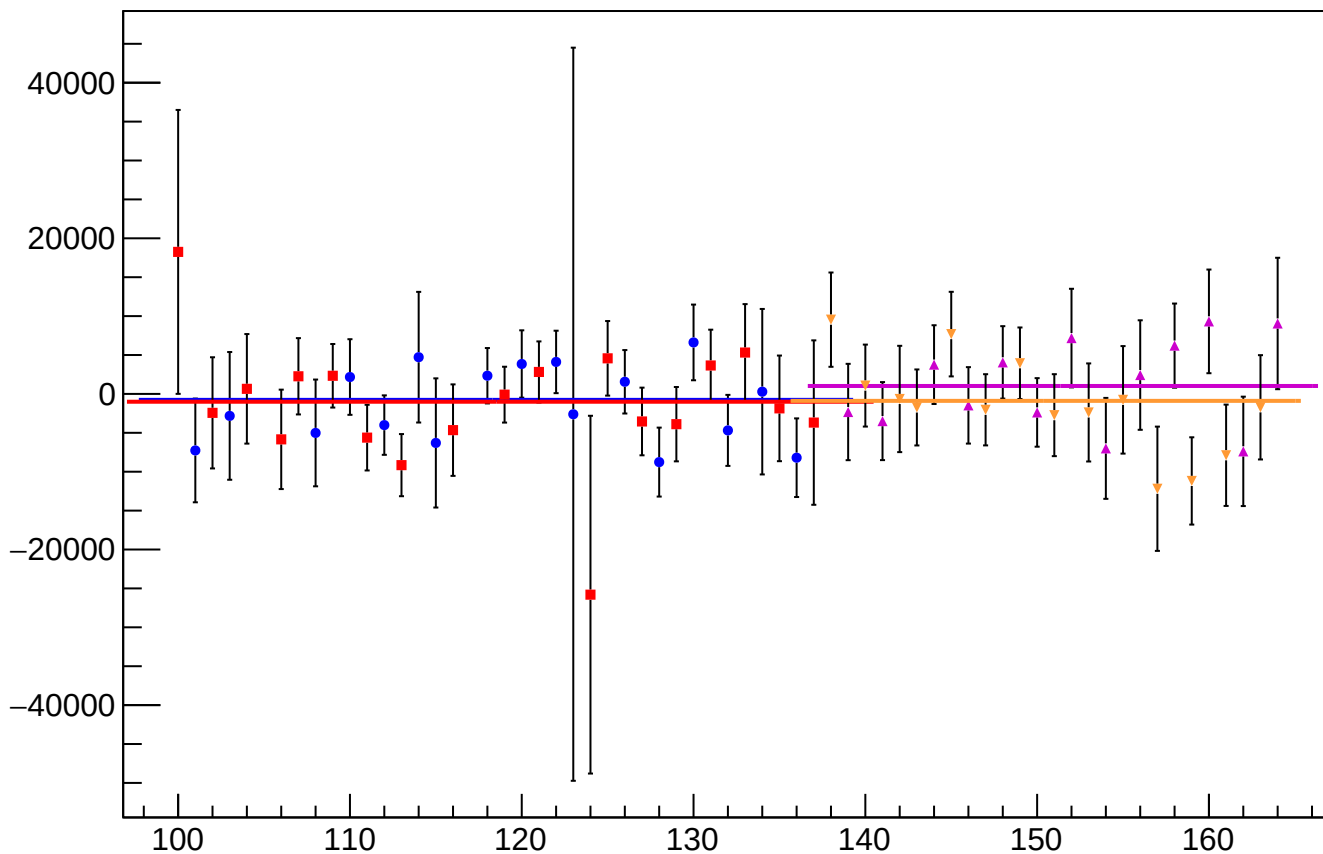
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4590.483+/-1.024  $\chi^2/\text{NDF}$ :618767.4/12

Out: 912.326+/-0.355  $\chi^2/\text{NDF}$ :14346702.4/13

All: 1307.025+/-0.335  $\chi^2/\text{NDF}$ : 26494229.8/26

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



Right In: -765.107 $\pm$ 1247.704  $\chi^2$ /NDF: 15.5/16

Left Out: -893.062 $\pm$ 1523.313  $\chi^2$ /NDF:13.5/13

Right Out: -1004.792 $\pm$ 1191.116  $\chi^2$ /NDF: 15.0/18

Left In: 1019.882 $\pm$ 1573.516  $\chi^2$ /NDF:10.0/12

Left: 32.407 $\pm$ 1094.463  $\chi^2$ /NDF: 24.3/26

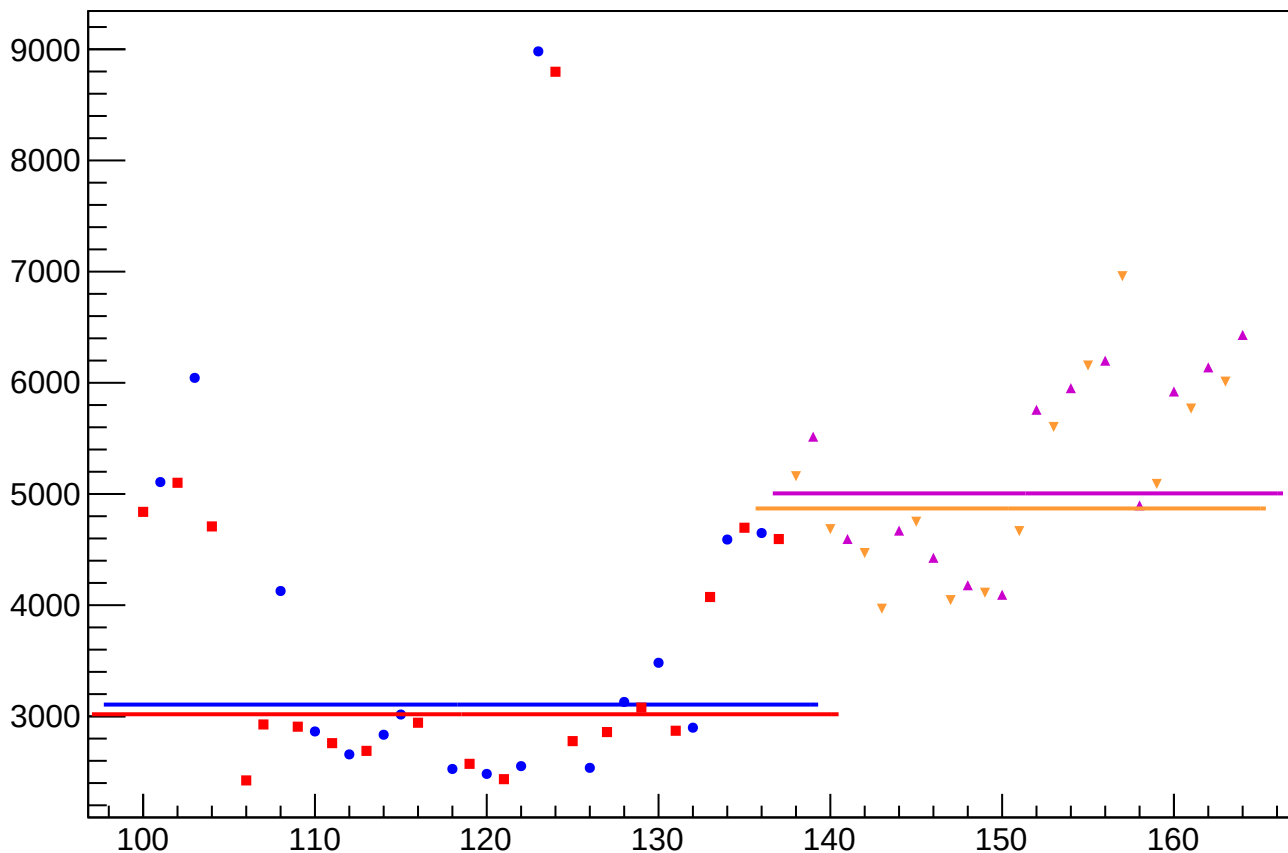
Right: -890.508 $\pm$ 861.557  $\chi^2$ /NDF: 30.6/35

In: -76.041 $\pm$ 977.651  $\chi^2$ /NDF:26.3/29

Out: -962.398 $\pm$ 938.321  $\chi^2$ /NDF:28.5/32

All: -537.407 $\pm$ 676.970  $\chi^2$ /NDF: 55.3/62

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



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

Left Out:  $4869.719 \pm 1.077$   $\chi^2/\text{NDF}: 537508.9/13$

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

Left In:  $5005.415 \pm 1.113$   $\chi^2/\text{NDF}: 488072.8/12$

Left:  $4935.368 \pm 0.774$   $\chi^2/\text{NDF}: 1033259.6/26$

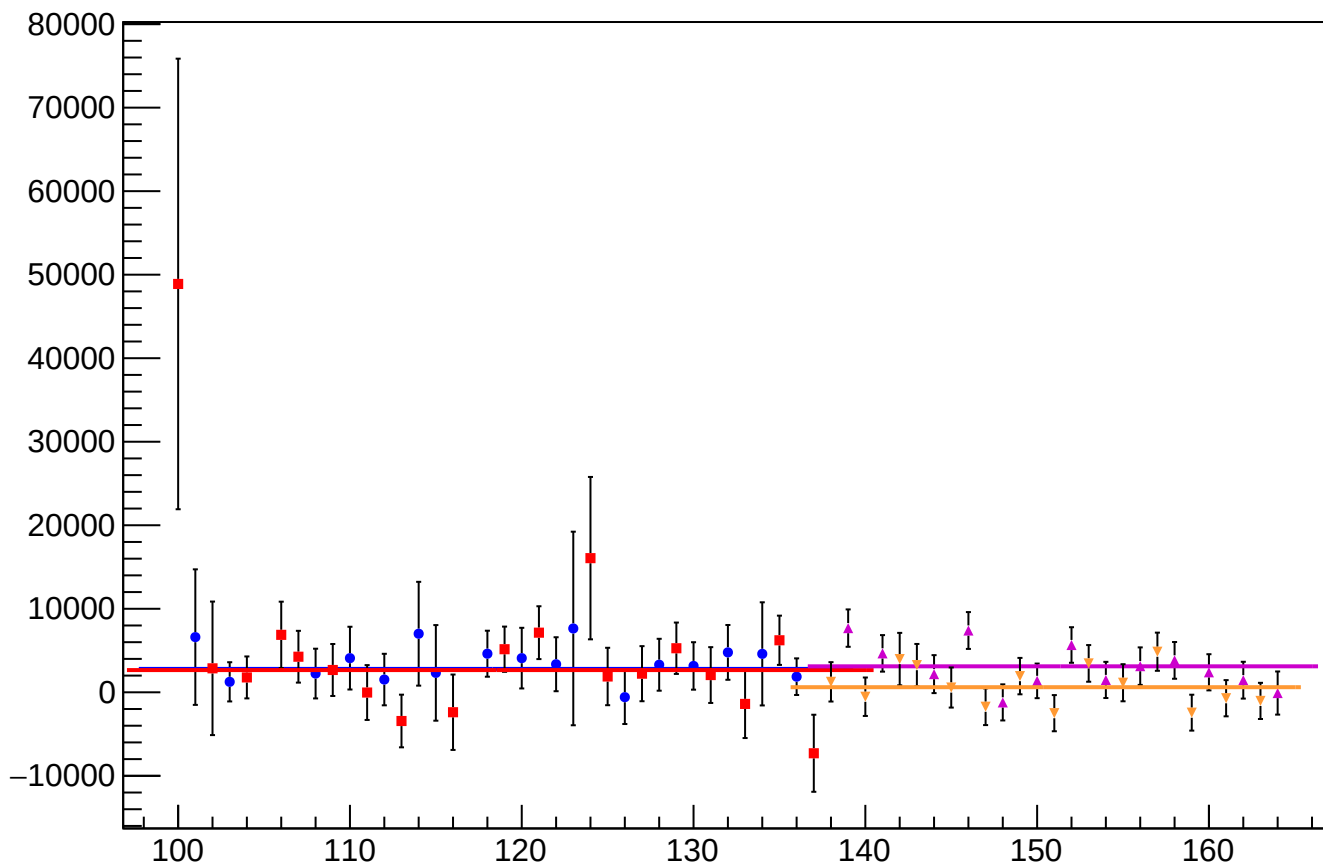
Right:  $3059.752 \pm 0.605$   $\chi^2/\text{NDF}: 1759257.8/35$

In:  $3839.141 \pm 0.691$   $\chi^2/\text{NDF}: 3237442.7/29$

Out:  $3710.181 \pm 0.658$   $\chi^2/\text{NDF}: 3181600.8/32$

All:  $3771.513 \pm 0.477$   $\chi^2/\text{NDF}: 6437293.1/62$

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



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

Left Out: 611.081+/-611.430  $\chi^2/\text{NDF}$ :14.3/13

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

Left In: 3110.453+/-612.778  $\chi^2/\text{NDF}$ :17.7/12

Left: 1858.015+/-432.822  $\chi^2/\text{NDF}$ : 40.3/26

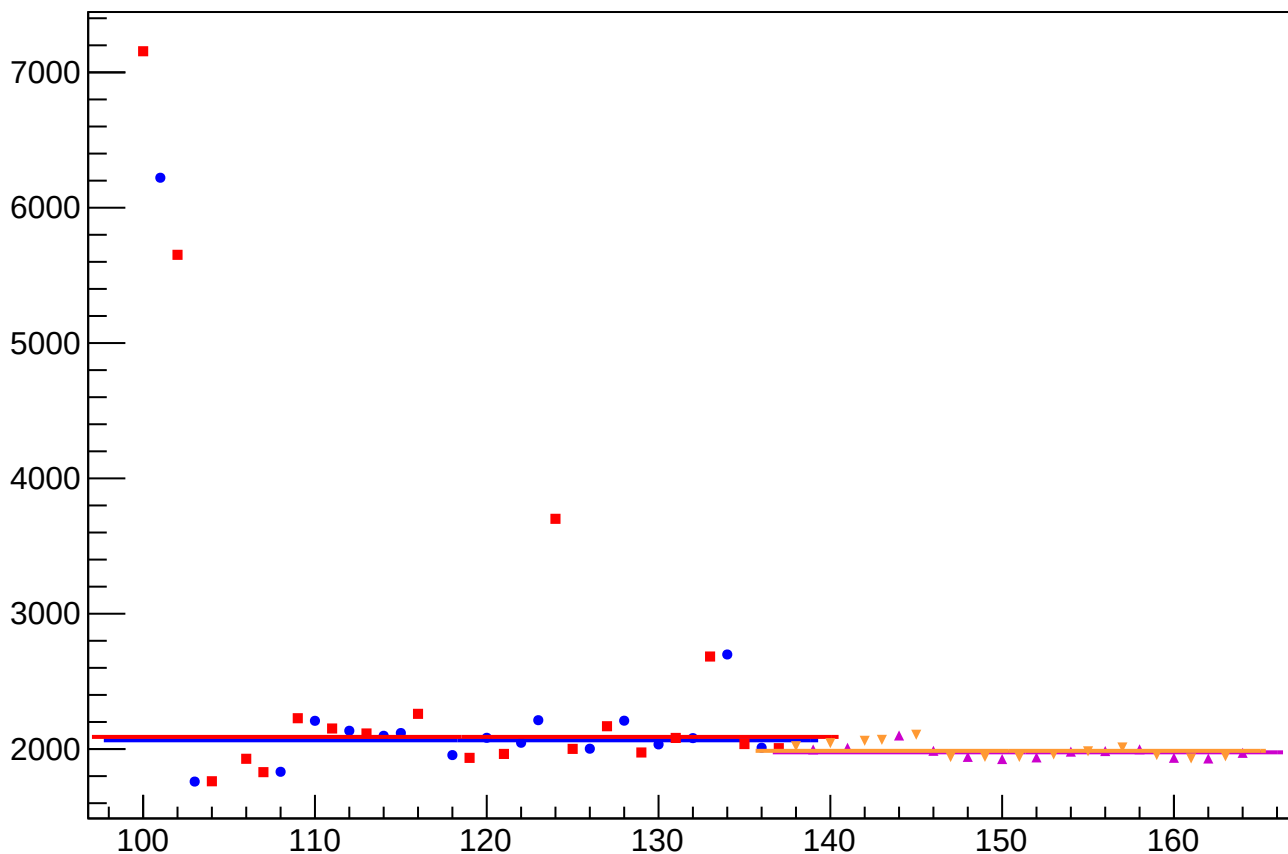
Right: 2729.773+/-574.107  $\chi^2/\text{NDF}$ : 26.8/35

In: 2998.490+/-489.848  $\chi^2/\text{NDF}$ :21.7/29

Out: 1356.639+/-487.688  $\chi^2/\text{NDF}$ :41.2/32

All: 2173.937+/-345.609  $\chi^2/\text{NDF}$ : 68.5/62

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



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

Left Out: 1986.797+/-0.432  $\chi^2/\text{NDF}$ : 15331.7/13

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

Left In: 1975.809+/-0.433  $\chi^2/\text{NDF}$ : 10760.6/12

Left: 1981.315+/-0.306  $\chi^2/\text{NDF}$ : 26414.6/26

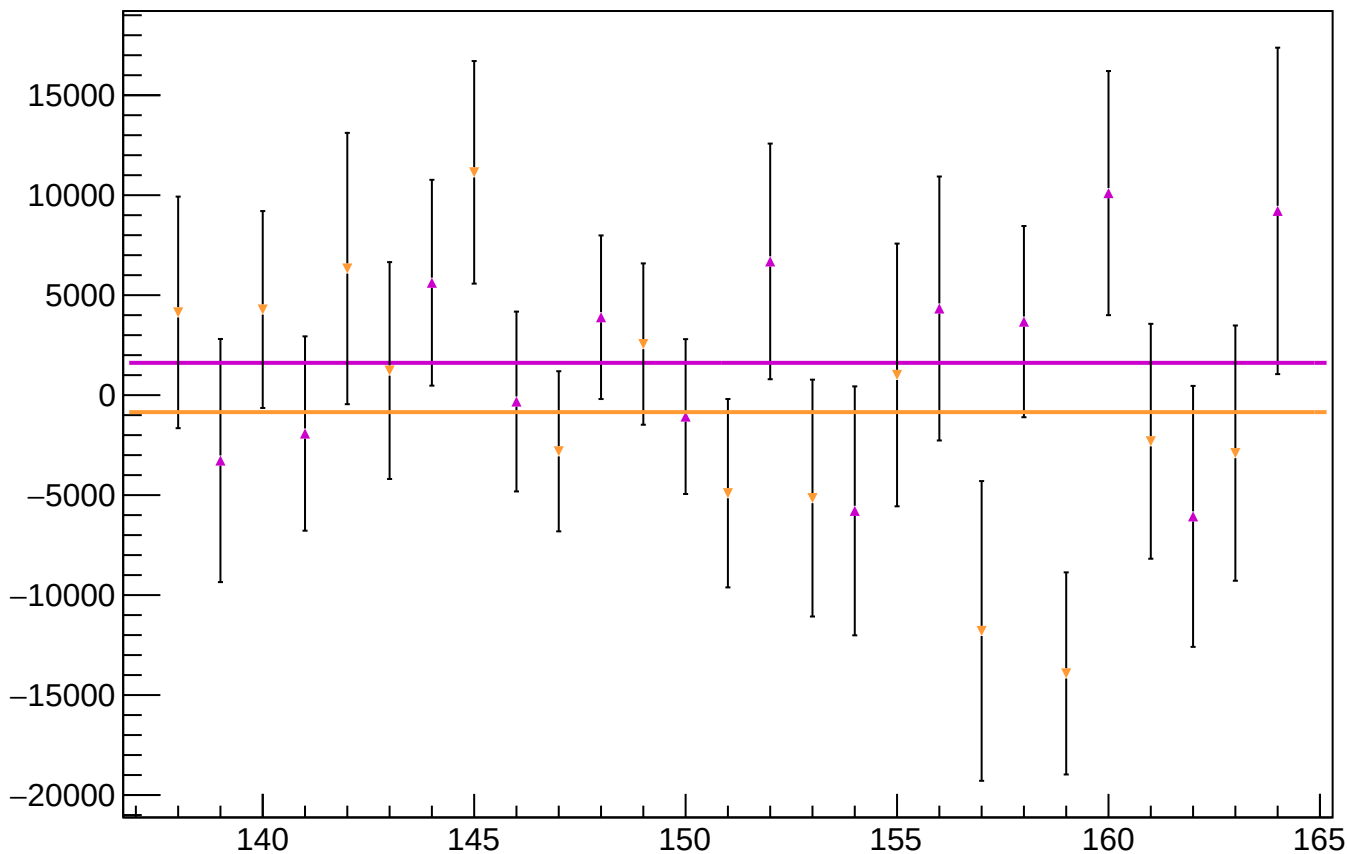
Right: 2077.355+/-0.406  $\chi^2/\text{NDF}$ : 1247943.7/35

In: 2007.899+/-0.346  $\chi^2/\text{NDF}$ : 632361.3/29

Out: 2024.282+/-0.345  $\chi^2/\text{NDF}$ : 676567.7/32

All: 2016.128+/-0.244  $\chi^2/\text{NDF}$ : 1310052.8/62

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



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

Left Out: -849.648+/-1428.492  $\chi^2/\text{NDF}$ :19.0/13

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

Left In: 1615.201+/-1459.215  $\chi^2/\text{NDF}$ :9.5/12

Left: 356.555+/-1020.785  $\chi^2/\text{NDF}$ : 29.9/26

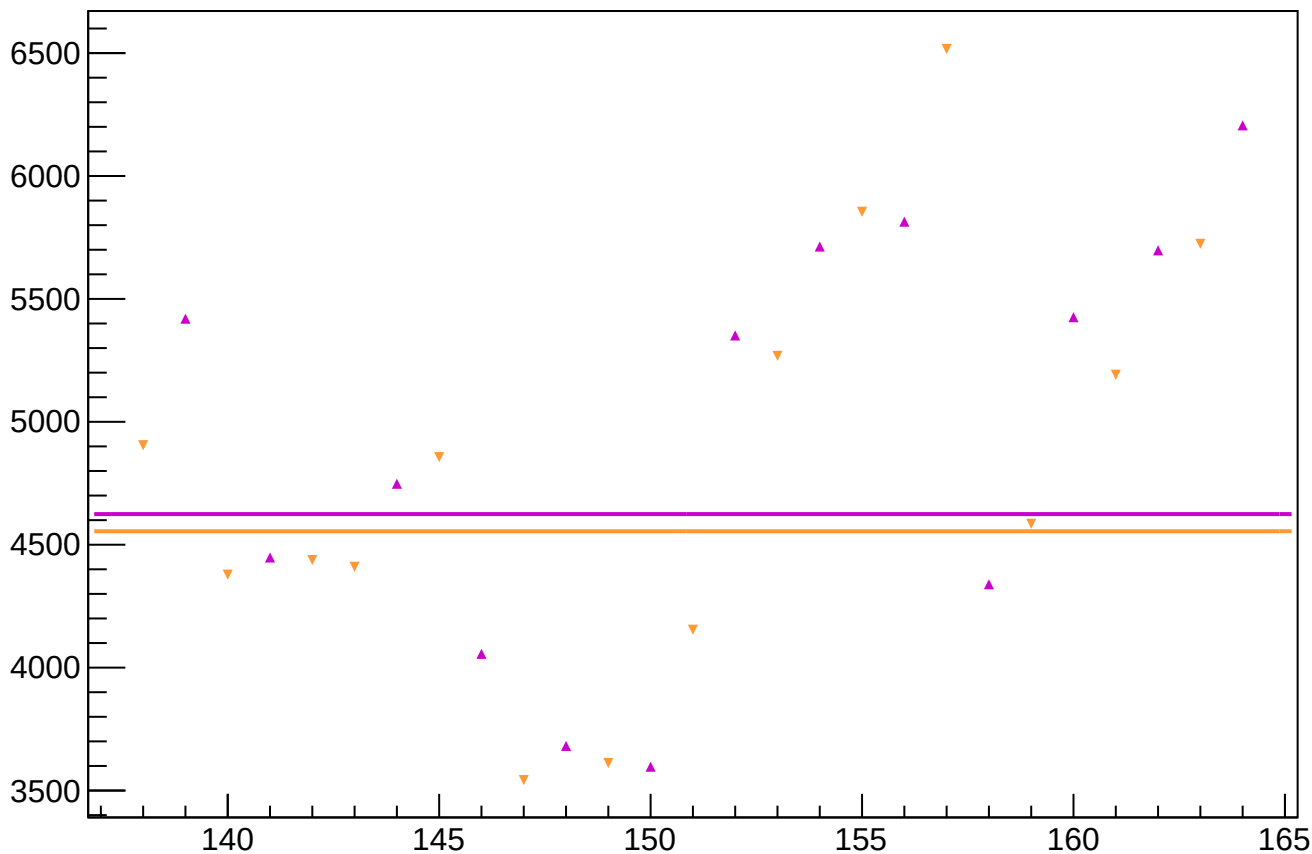
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1615.201+/-1459.215  $\chi^2/\text{NDF}$ :9.5/12

Out: -849.648+/-1428.492  $\chi^2/\text{NDF}$ :19.0/13

All: 356.555+/-1020.785  $\chi^2/\text{NDF}$ : 29.9/26

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



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

Left Out: 4554.862+/-1.010  $\chi^2/\text{NDF}$ : 604298.4/13

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

Left In: 4624.612+/-1.032  $\chi^2/\text{NDF}$ : 644291.9/12

Left: 4588.995+/-0.722  $\chi^2/\text{NDF}$ : 1250923.8/26

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

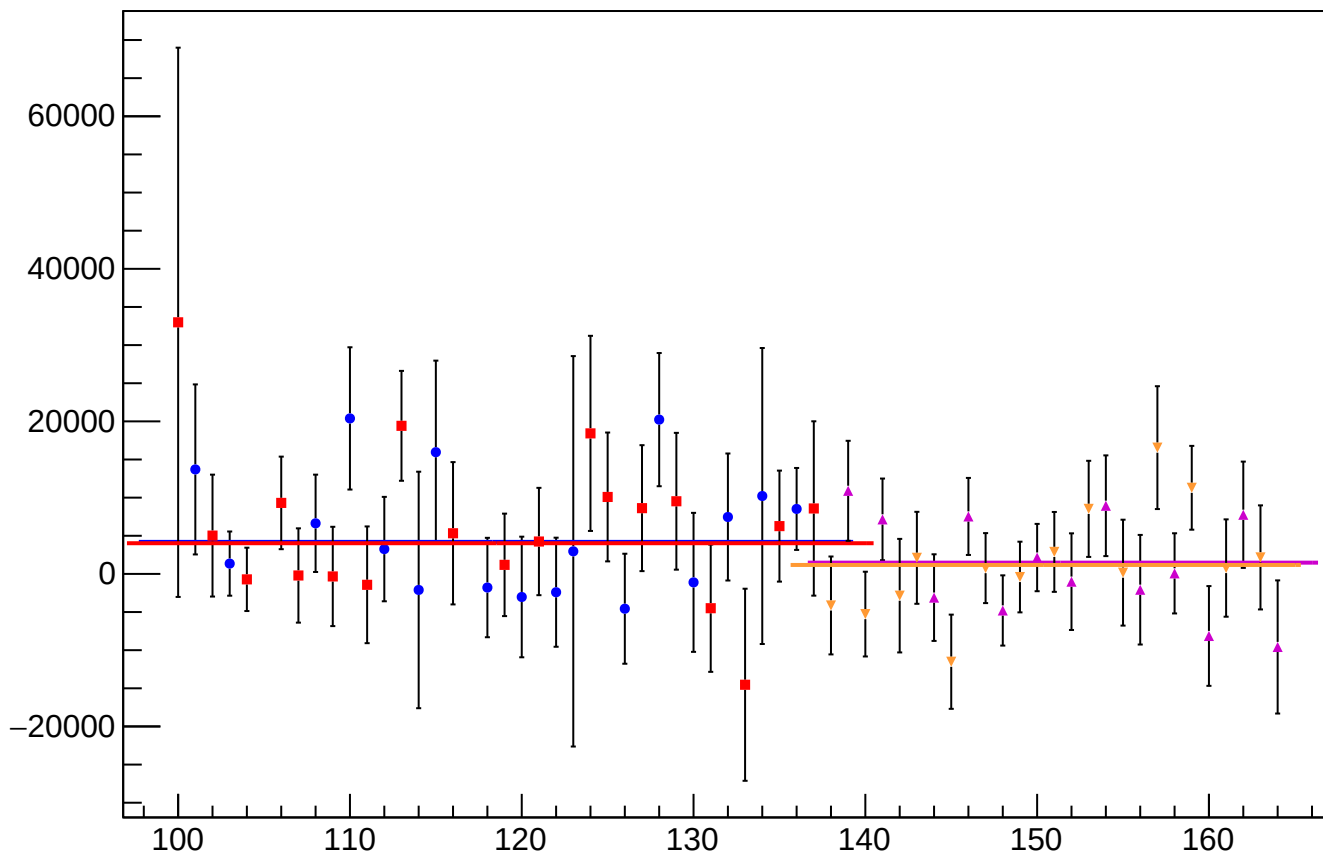
In: 4624.612+/-1.032  $\chi^2/\text{NDF}$ : 644291.9/12

Out: 4554.862+/-1.010  $\chi^2/\text{NDF}$ : 604298.4/13

All: 4588.995+/-0.722  $\chi^2/\text{NDF}$ : 1250923.8/26



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



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

Left Out: 1173.831+/-1582.172  $\chi^2/\text{NDF}$ : 15.2/13

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

Left In: 1476.806+/-1606.703  $\chi^2/\text{NDF}$ : 13.5/12

Left: 1322.988+/-1127.337  $\chi^2/\text{NDF}$ : 28.7/26

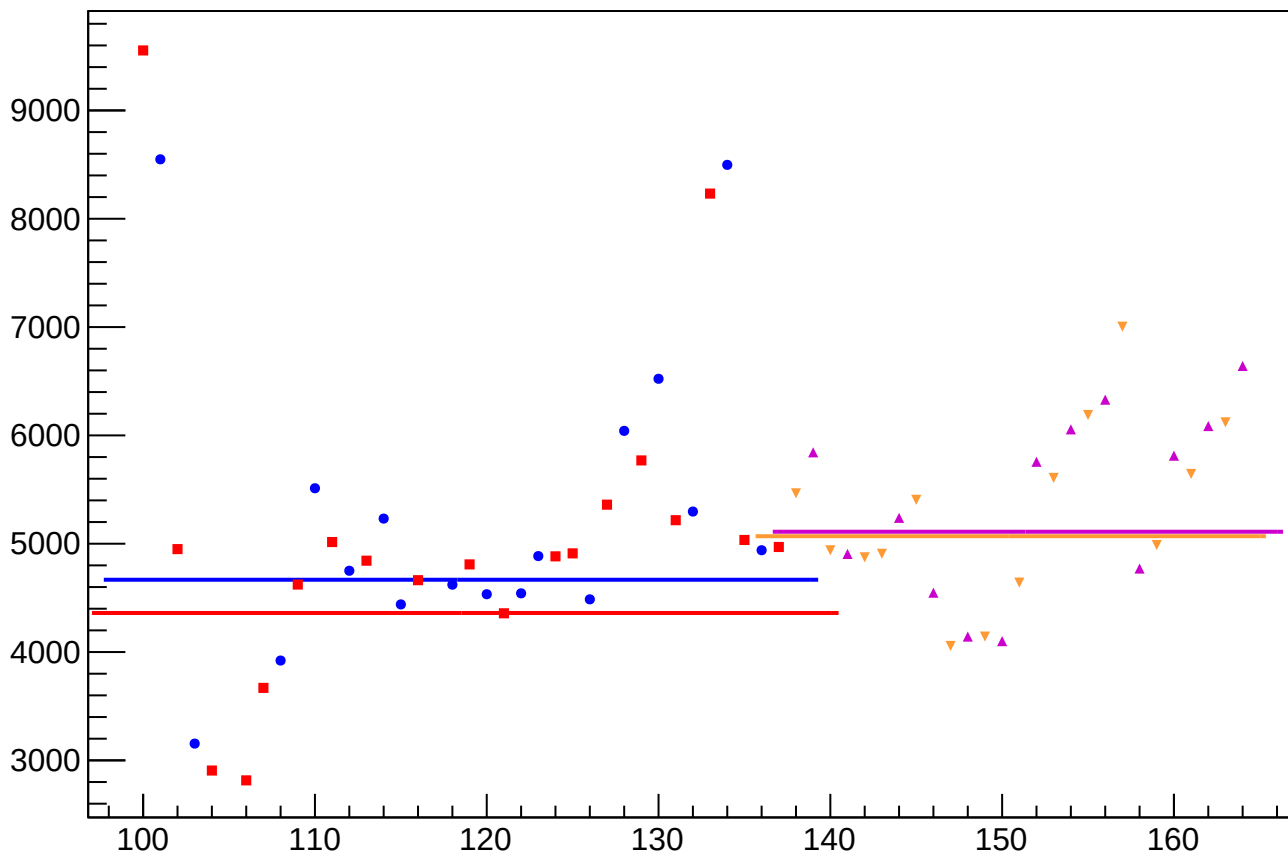
Right: 4104.755+/-1264.177  $\chi^2/\text{NDF}$ : 29.0/35

In: 2641.537+/-1215.265  $\chi^2/\text{NDF}$ : 28.8/29

Out: 2475.754+/-1166.052  $\chi^2/\text{NDF}$ : 31.6/32

All: 2555.221+/-841.384  $\chi^2/\text{NDF}$ : 60.4/62

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



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

Left Out: 5069.078 $\pm$ 1.119  $\chi^2$ /NDF: 454404.5/13

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

Left In: 5110.630 $\pm$ 1.136  $\chi^2$ /NDF: 498325.9/12

Left: 5089.534 $\pm$ 0.797  $\chi^2$ /NDF: 953409.5/26

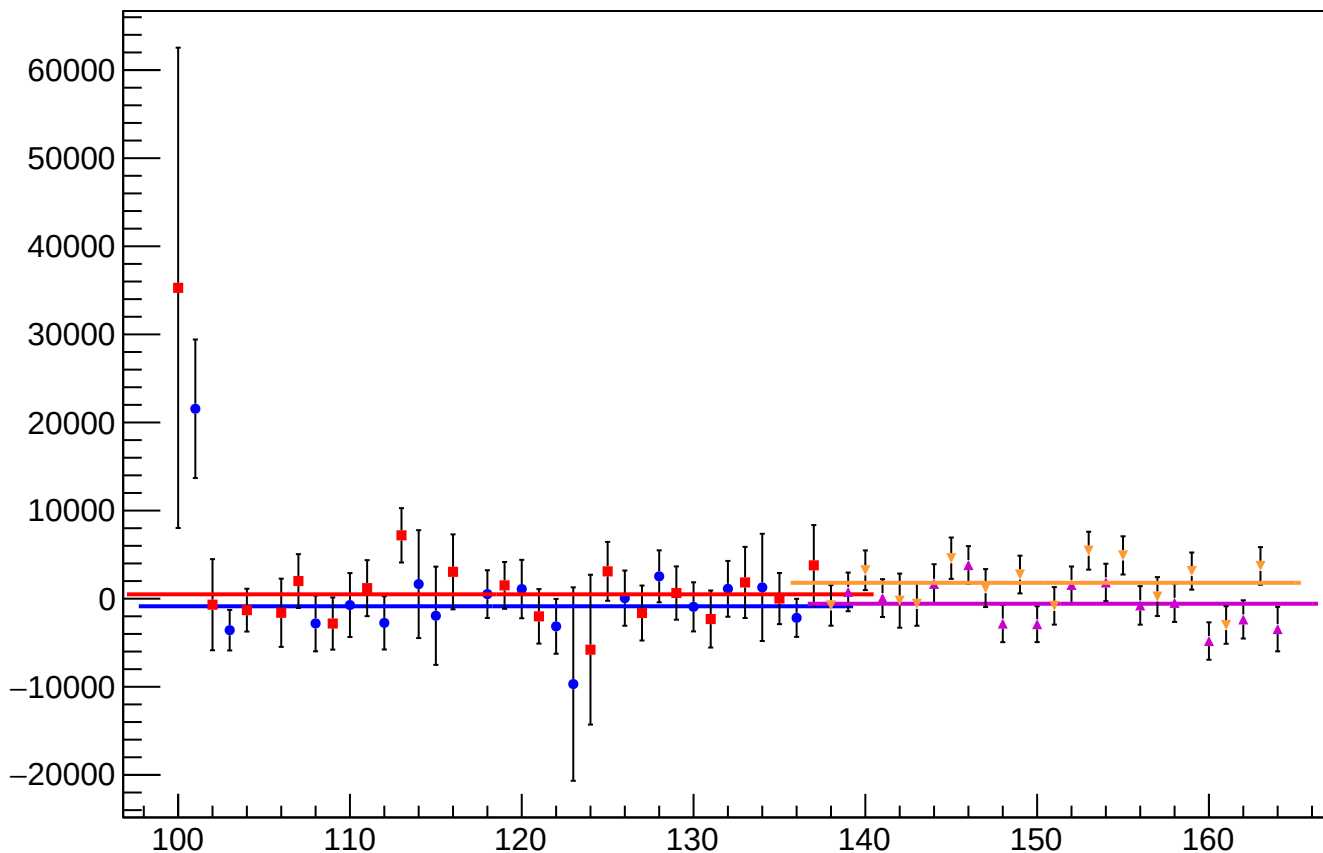
Right: 4501.800 $\pm$ 0.891  $\chi^2$ /NDF: 1640064.7/35

In: 4921.001 $\pm$ 0.859  $\chi^2$ /NDF: 1341289.9/29

Out: 4743.372 $\pm$ 0.822  $\chi^2$ /NDF: 1471517.6/32

All: 4828.282 $\pm$ 0.594  $\chi^2$ /NDF: 2835110.9/62

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



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

Left Out:  $1802.135 \pm 599.041$   $\chi^2/\text{NDF}$ : 17.9/13

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

Left In:  $-573.049 \pm 601.010$   $\chi^2/\text{NDF}$ : 16.4/12

Left:  $618.441 \pm 424.280$   $\chi^2/\text{NDF}$ : 42.1/26

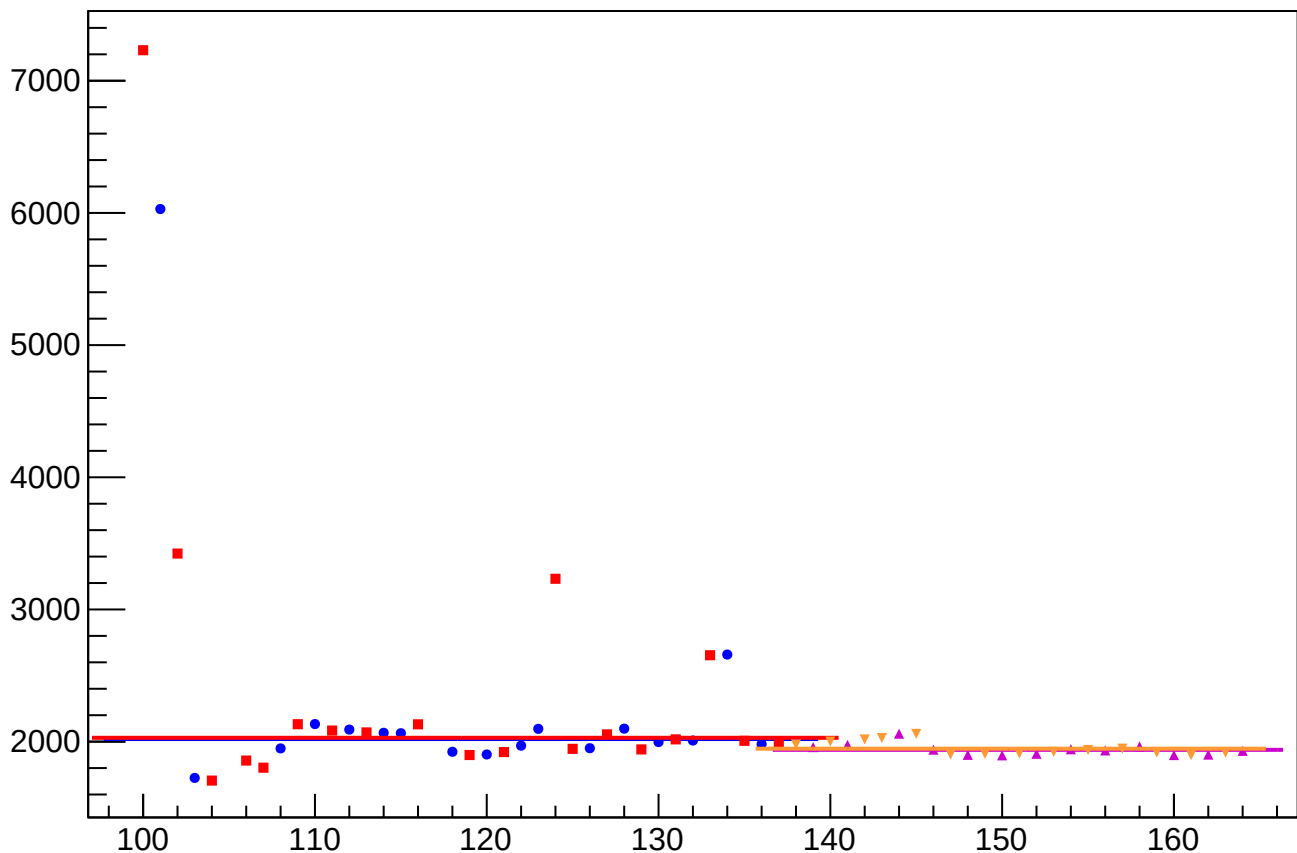
Right:  $-168.941 \pm 557.798$   $\chi^2/\text{NDF}$ : 29.0/35

In:  $-677.308 \pm 479.866$   $\chi^2/\text{NDF}$ : 31.0/29

Out:  $1317.964 \pm 475.306$   $\chi^2/\text{NDF}$ : 32.6/32

All:  $329.855 \pm 337.693$   $\chi^2/\text{NDF}$ : 72.4/62

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



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

Left Out: 1946.679+/-0.424  $\chi^2/\text{NDF}$ : 13447.1/13

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

Left In: 1937.966+/-0.425  $\chi^2/\text{NDF}$ : 10239.3/12

Left: 1942.337+/-0.300  $\chi^2/\text{NDF}$ : 23897.3/26

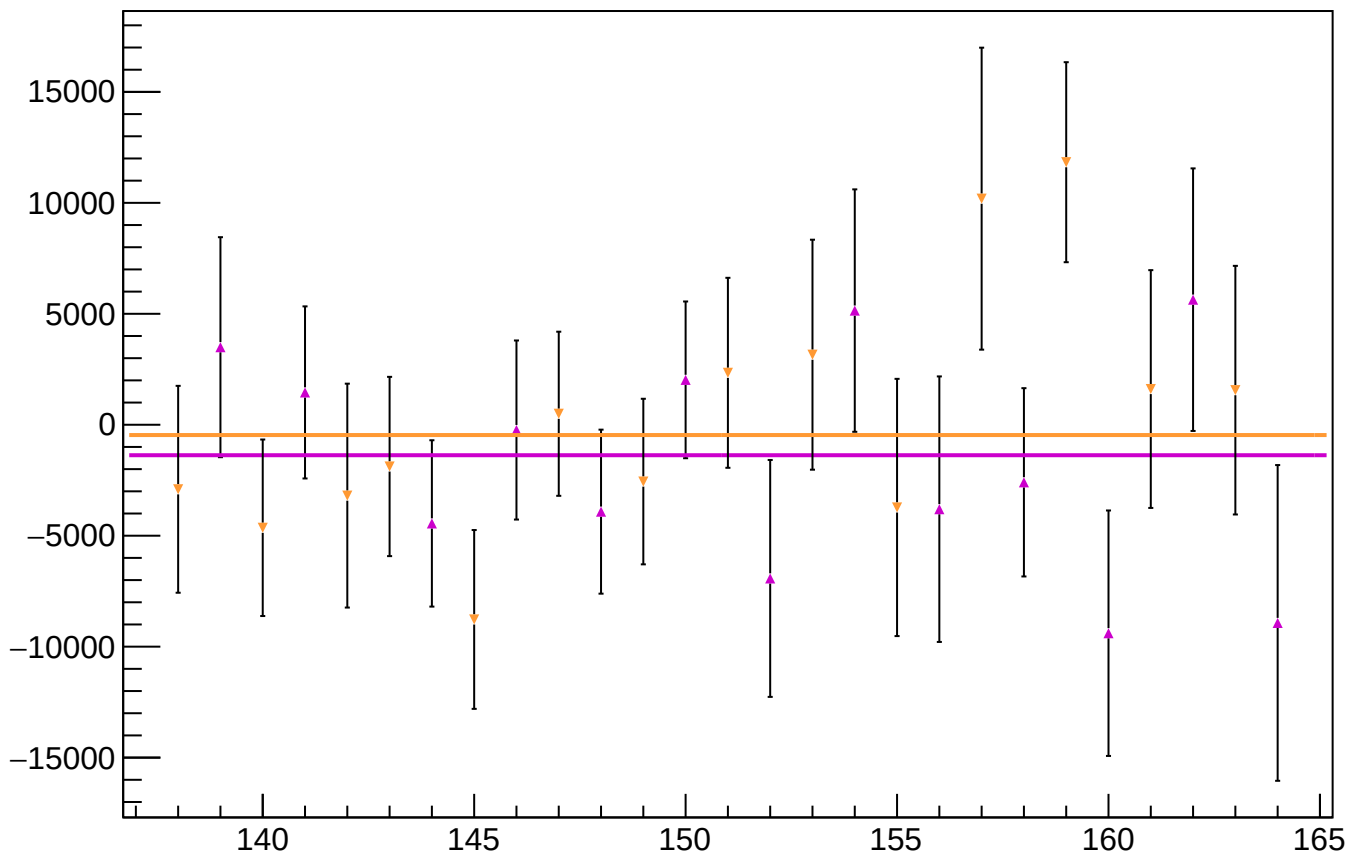
Right: 2024.407+/-0.394  $\chi^2/\text{NDF}$ : 959952.1/35

In: 1967.567+/-0.339  $\chi^2/\text{NDF}$ : 611466.4/29

Out: 1977.219+/-0.336  $\chi^2/\text{NDF}$ : 399425.0/32

All: 1972.442+/-0.239  $\chi^2/\text{NDF}$ : 1011300.0/62

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



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

Left Out: -464.100+/-1216.732  $\chi^2/\text{NDF}$ :17.8/13

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

Left In: -1372.941+/-1263.584  $\chi^2/\text{NDF}$ :11.0/12

Left: -901.359+/-876.455  $\chi^2/\text{NDF}$ : 29.1/26

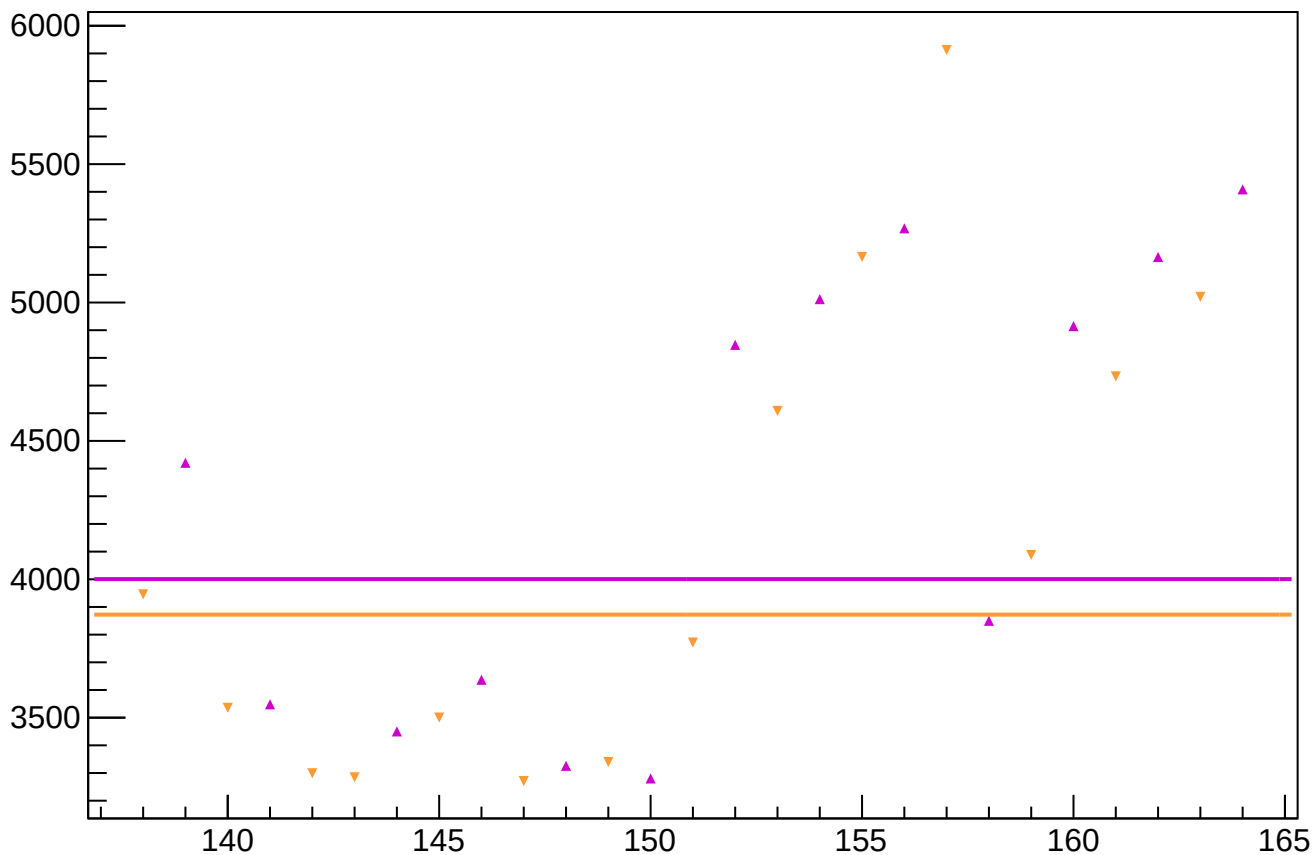
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1372.941+/-1263.584  $\chi^2/\text{NDF}$ :11.0/12

Out: -464.100+/-1216.732  $\chi^2/\text{NDF}$ :17.8/13

All: -901.359+/-876.455  $\chi^2/\text{NDF}$ : 29.1/26

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



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

Left Out: 3872.305+/-0.860  $\chi^2/\text{NDF}$ :654618.4/13

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

Left In: 4000.649+/-0.893  $\chi^2/\text{NDF}$ :672333.2/12

Left: 3934.054+/-0.620  $\chi^2/\text{NDF}$ : 1337658.0/26

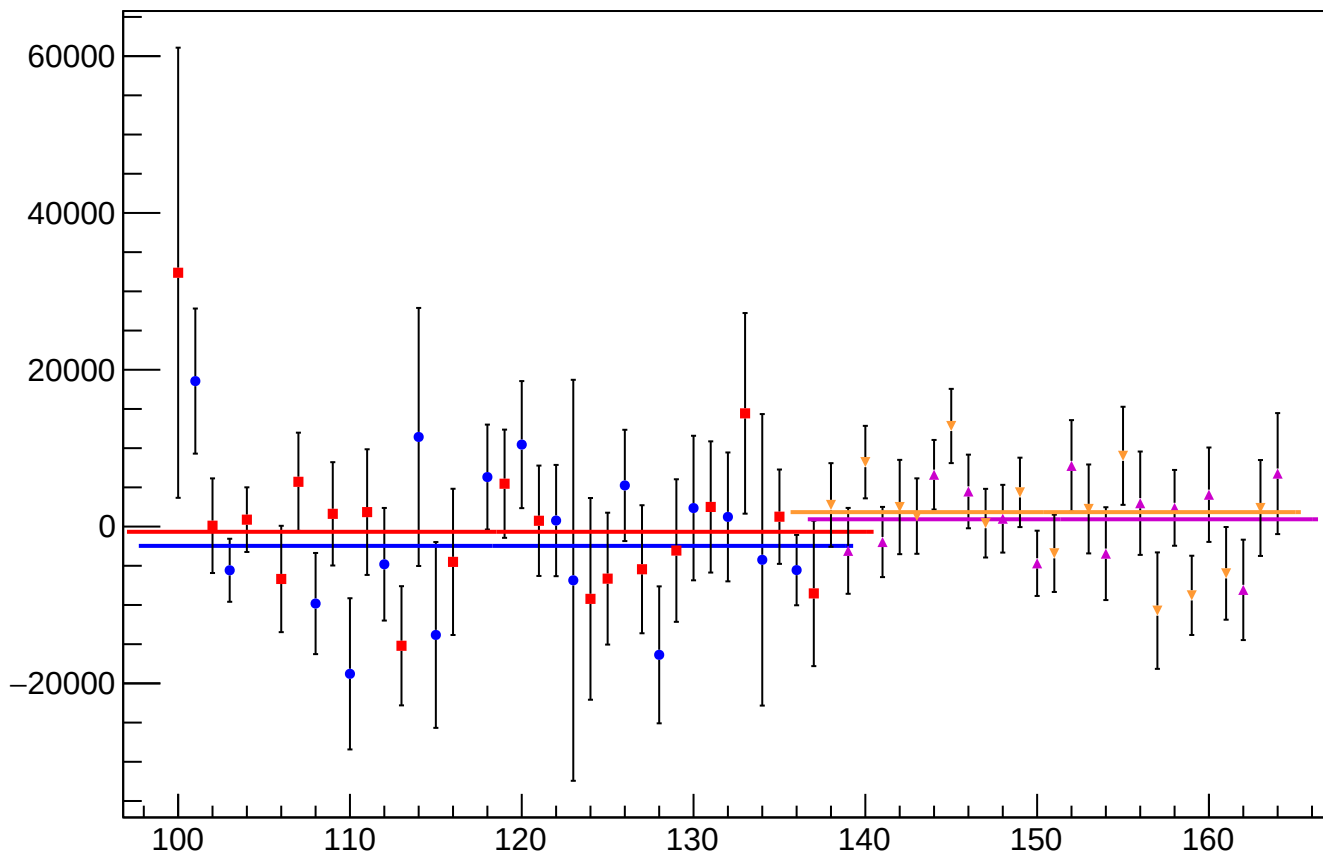
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4000.649+/-0.893  $\chi^2/\text{NDF}$ :672333.2/12

Out: 3872.305+/-0.860  $\chi^2/\text{NDF}$ :654618.4/13

All: 3934.054+/-0.620  $\chi^2/\text{NDF}$ : 1337658.0/26

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



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

Left Out: 1842.277 $\pm$ 1398.849  $\chi^2$ /NDF:19.3/13

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

Left In: 929.435 $\pm$ 1438.601  $\chi^2$ /NDF:9.9/12

Left: 1398.642 $\pm$ 1002.895  $\chi^2$ /NDF: 29.4/26

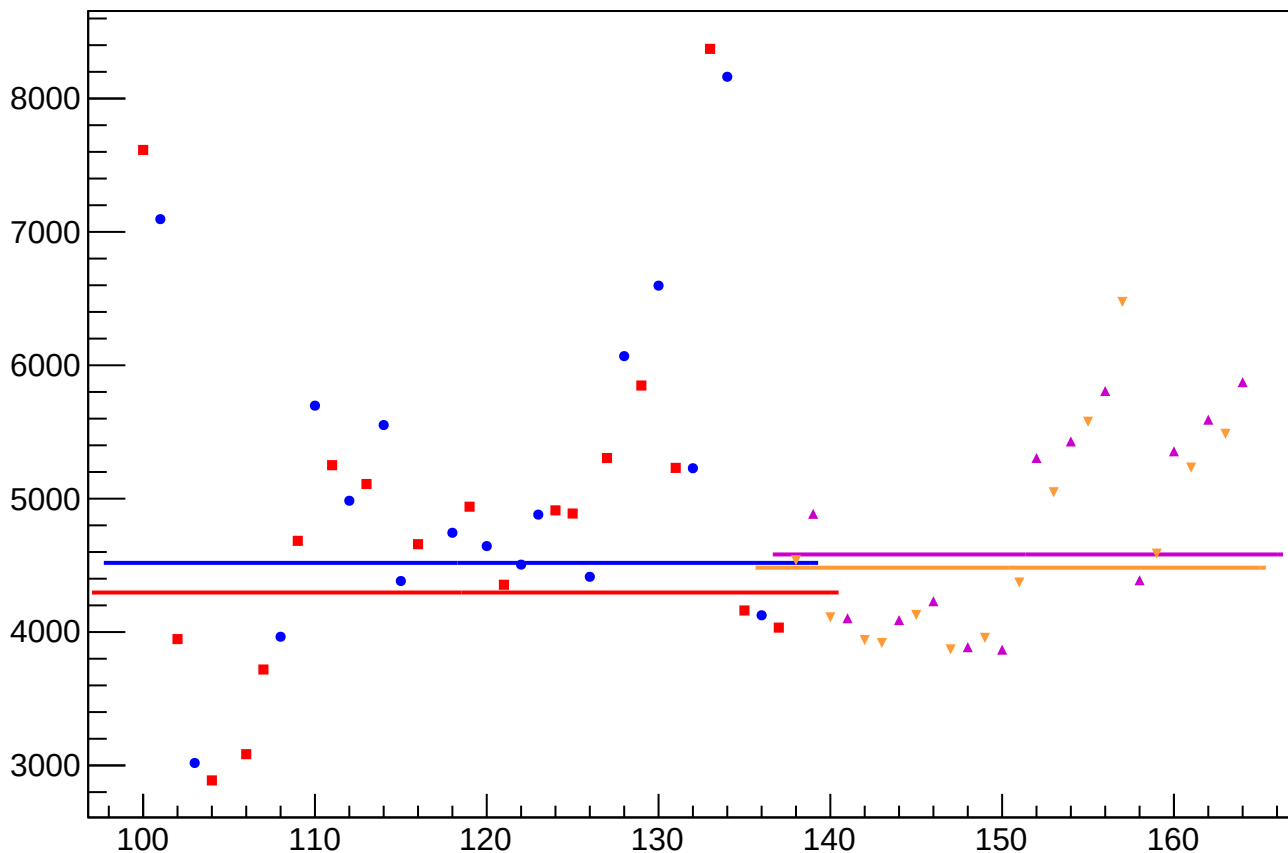
Right: -1508.905 $\pm$ 1231.122  $\chi^2$ /NDF: 33.3/35

In: -395.012 $\pm$ 1123.125  $\chi^2$ /NDF:32.9/29

Out: 822.279 $\pm$ 1077.545  $\chi^2$ /NDF:32.5/32

All: 238.835 $\pm$ 777.554  $\chi^2$ /NDF: 66.0/62

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



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

Left Out: 4482.536 $\pm$ 0.989  $\chi^2$ /NDF: 448592.4/13

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

Left In: 4581.759 $\pm$ 1.017  $\chi^2$ /NDF: 458235.0/12

Left: 4530.758 $\pm$ 0.709  $\chi^2$ /NDF: 911717.8/26

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

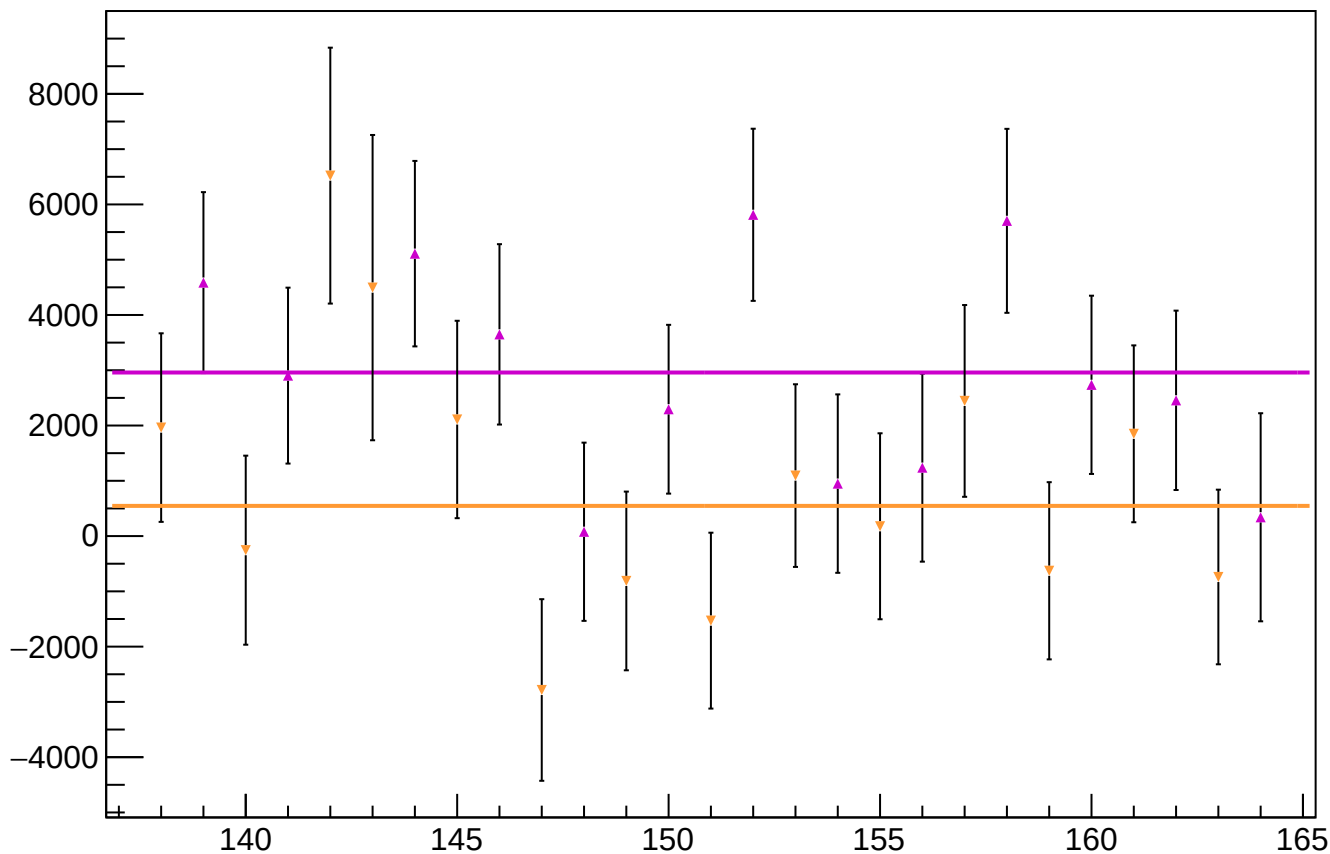
In: 4557.128 $\pm$ 0.794  $\chi^2$ /NDF: 1229963.3/29

Out: 4406.340 $\pm$ 0.760  $\chi^2$ /NDF: 1234792.6/32

All: 4478.442 $\pm$ 0.549  $\chi^2$ /NDF: 2483568.2/62



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: 546.252+/-461.377  $\chi^2/\text{NDF}$ :20.1/13

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

Left In: 2959.163+/-453.481  $\chi^2/\text{NDF}$ :16.9/12

Left: 1773.534+/-323.415  $\chi^2/\text{NDF}$ : 50.9/26

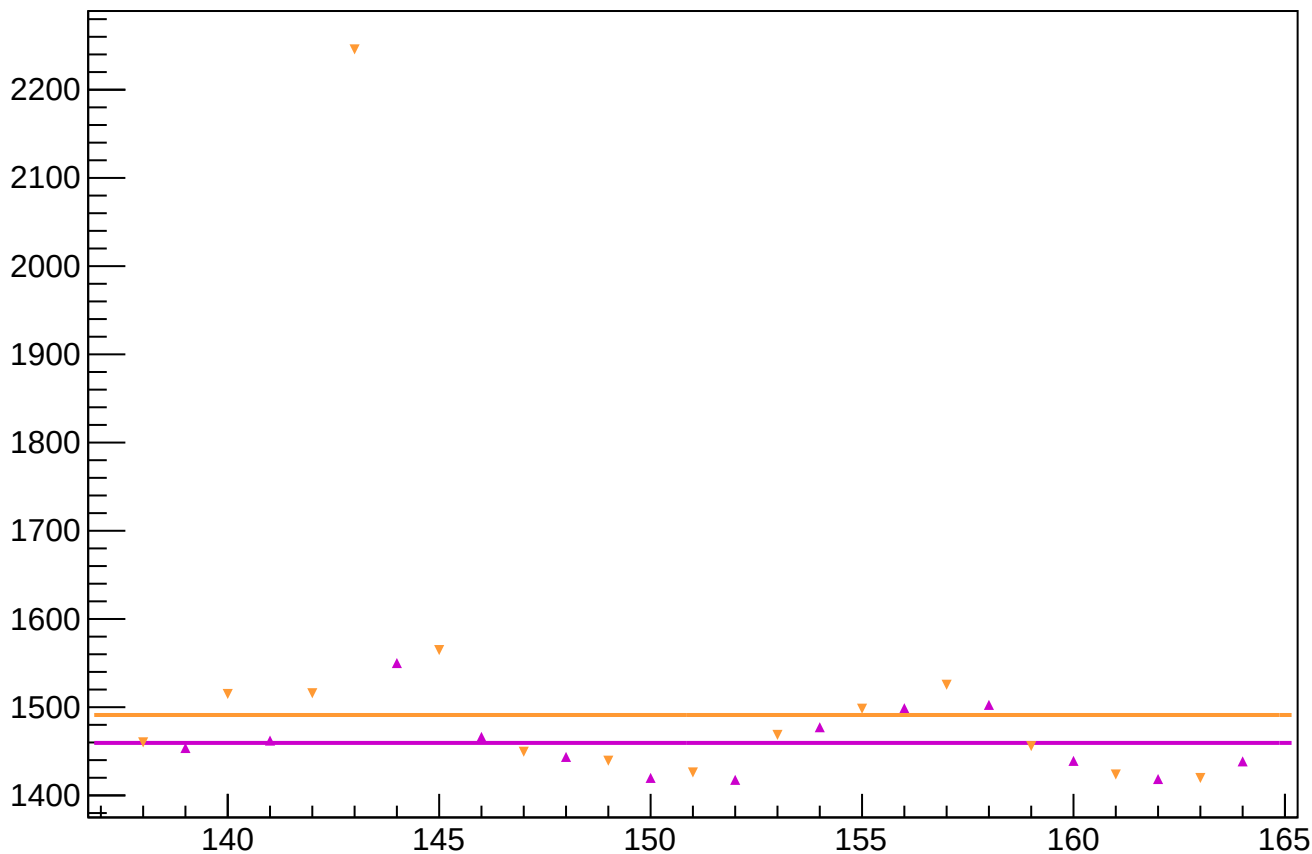
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2959.163+/-453.481  $\chi^2/\text{NDF}$ :16.9/12

Out: 546.252+/-461.377  $\chi^2/\text{NDF}$ :20.1/13

All: 1773.534+/-323.415  $\chi^2/\text{NDF}$ : 50.9/26

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: 1491.168+/-0.326  $\chi^2/\text{NDF}$ :170484.7/13

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

Left In: 1459.514+/-0.321  $\chi^2/\text{NDF}$ :13373.0/12

Left: 1475.068+/-0.229  $\chi^2/\text{NDF}$ : 188646.0/26

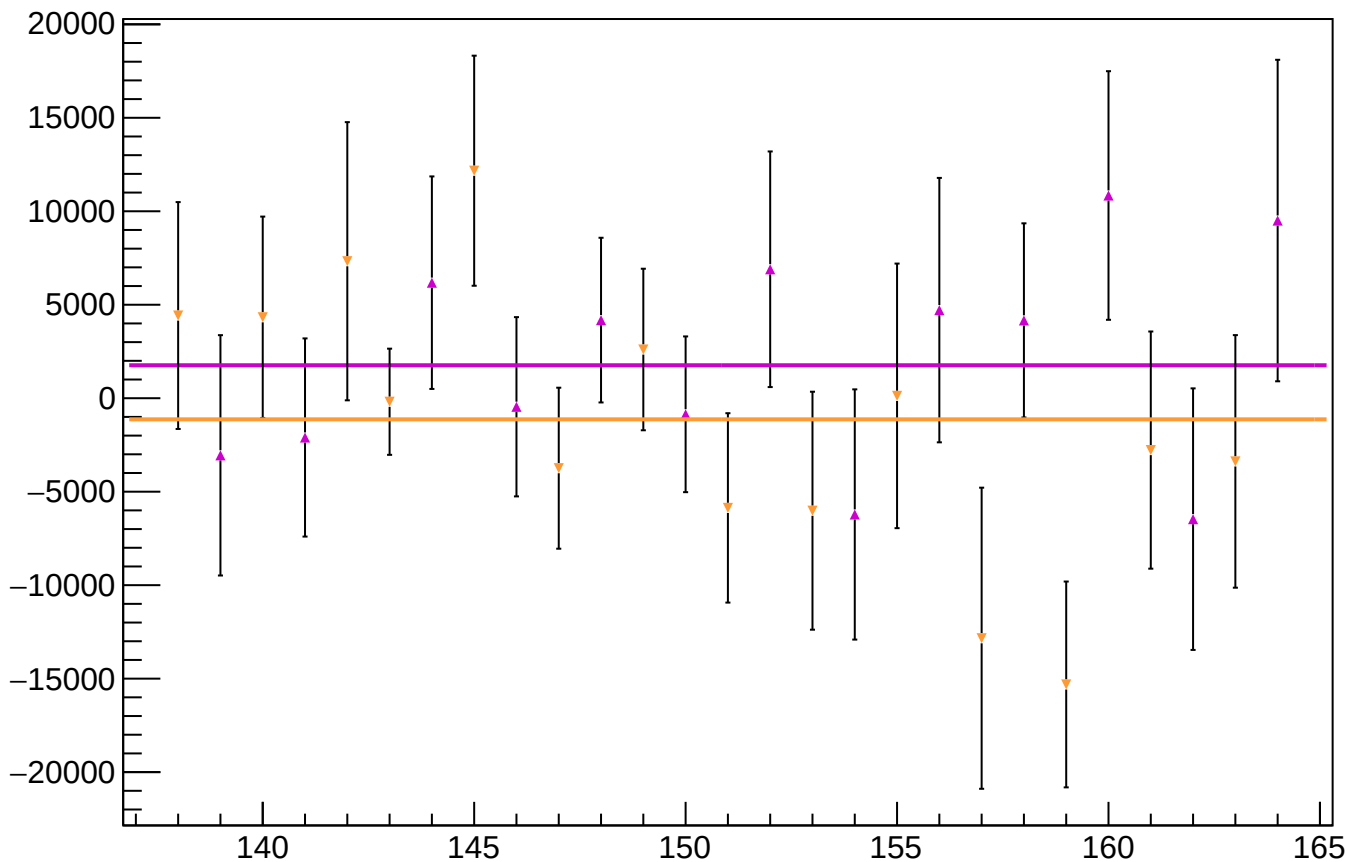
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1459.514+/-0.321  $\chi^2/\text{NDF}$ :13373.0/12

Out: 1491.168+/-0.326  $\chi^2/\text{NDF}$ :170484.7/13

All: 1475.068+/-0.229  $\chi^2/\text{NDF}$ : 188646.0/26

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: -1129.954+/-1391.532  $\chi^2/\text{NDF}$ :19.5/13

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

Left In: 1763.411+/-1572.130  $\chi^2/\text{NDF}$ :9.1/12

Left: 141.067+/-1041.989  $\chi^2/\text{NDF}$ : 30.5/26

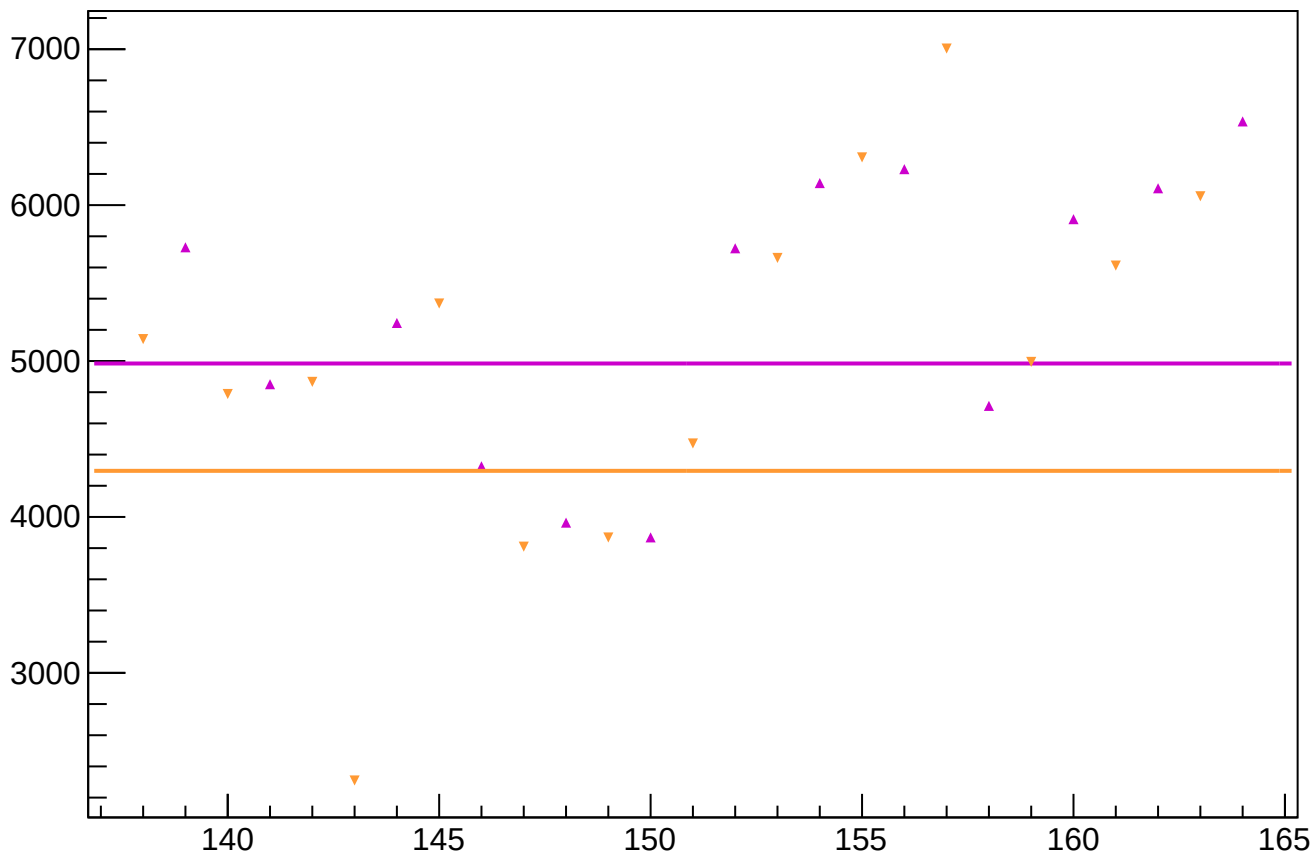
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1763.411+/-1572.130  $\chi^2/\text{NDF}$ :9.1/12

Out: -1129.954+/-1391.532  $\chi^2/\text{NDF}$ :19.5/13

All: 141.067+/-1041.989  $\chi^2/\text{NDF}$ : 30.5/26

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: 4295.738+/-0.984  $\chi^2/\text{NDF}$ :1887776.2/13

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

Left In: 4984.237+/-1.112  $\chi^2/\text{NDF}$ :631386.1/12

Left: 4598.187+/-0.737  $\chi^2/\text{NDF}$ : 2734241.9/26

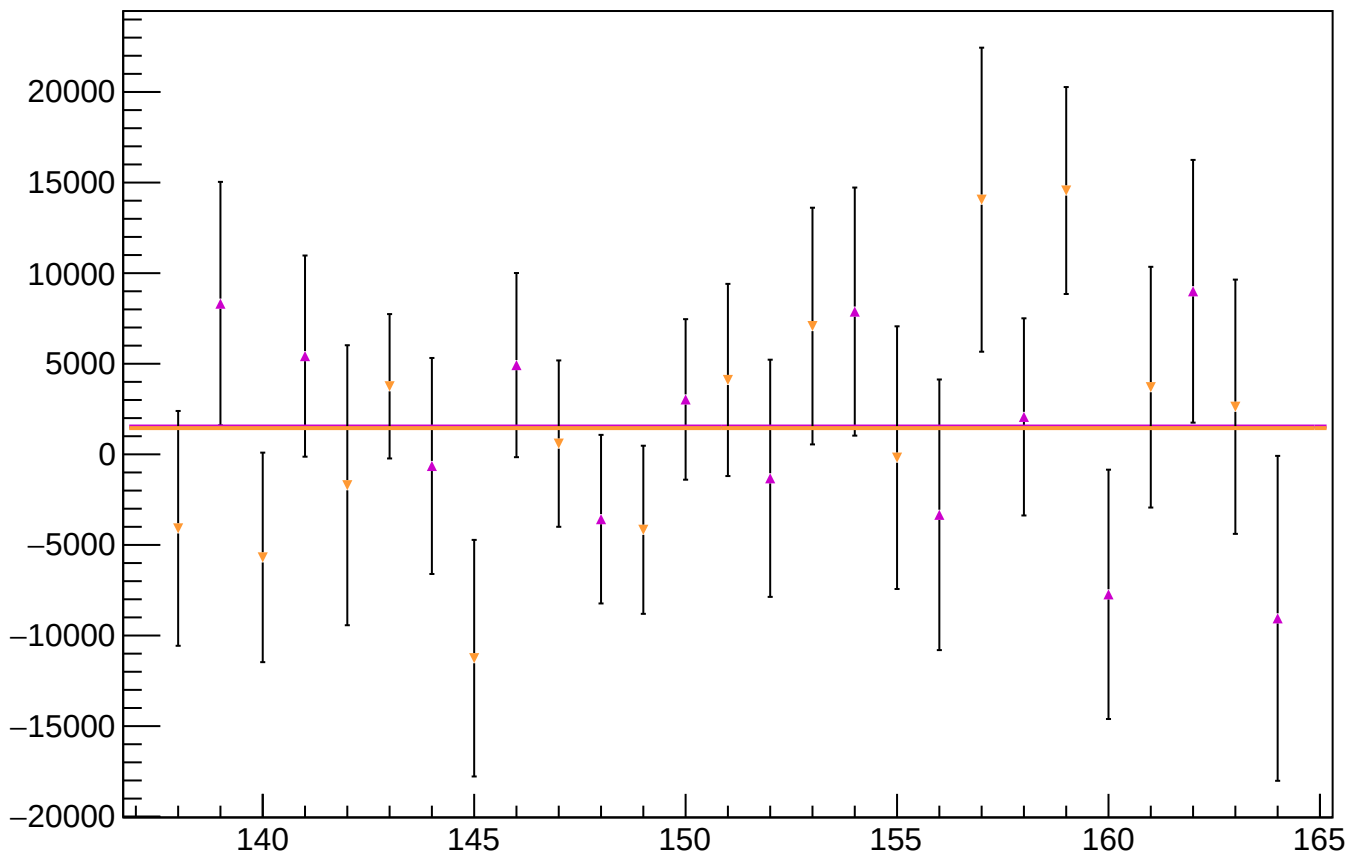
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4984.237+/-1.112  $\chi^2/\text{NDF}$ :631386.1/12

Out: 4295.738+/-0.984  $\chi^2/\text{NDF}$ :1887776.2/13

All: 4598.187+/-0.737  $\chi^2/\text{NDF}$ : 2734241.9/26

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: 1447.619+/-1549.222  $\chi^2/\text{NDF}$ :16.8/13

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

Left In: 1535.489+/-1649.489  $\chi^2/\text{NDF}$ :9.2/12

Left: 1488.802+/-1129.249  $\chi^2/\text{NDF}$ : 25.9/26

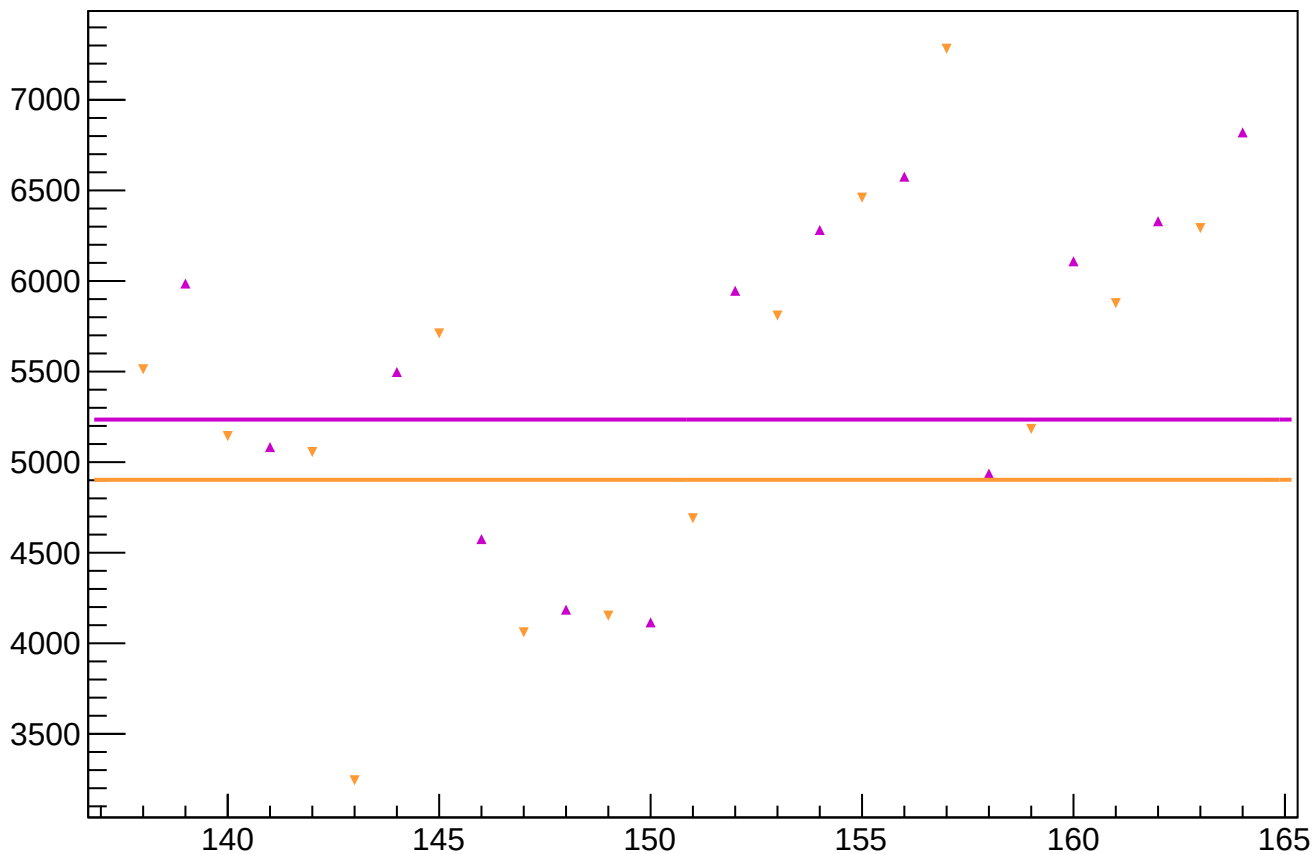
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1535.489+/-1649.489  $\chi^2/\text{NDF}$ :9.2/12

Out: 1447.619+/-1549.222  $\chi^2/\text{NDF}$ :16.8/13

All: 1488.802+/-1129.249  $\chi^2/\text{NDF}$ : 25.9/26

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: 4902.682+/-1.095  $\chi^2/\text{NDF}$ :939996.1/13

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

Left In: 5235.010+/-1.166  $\chi^2/\text{NDF}$ :574643.4/12

Left: 5058.439+/-0.798  $\chi^2/\text{NDF}$ : 1557773.4/26

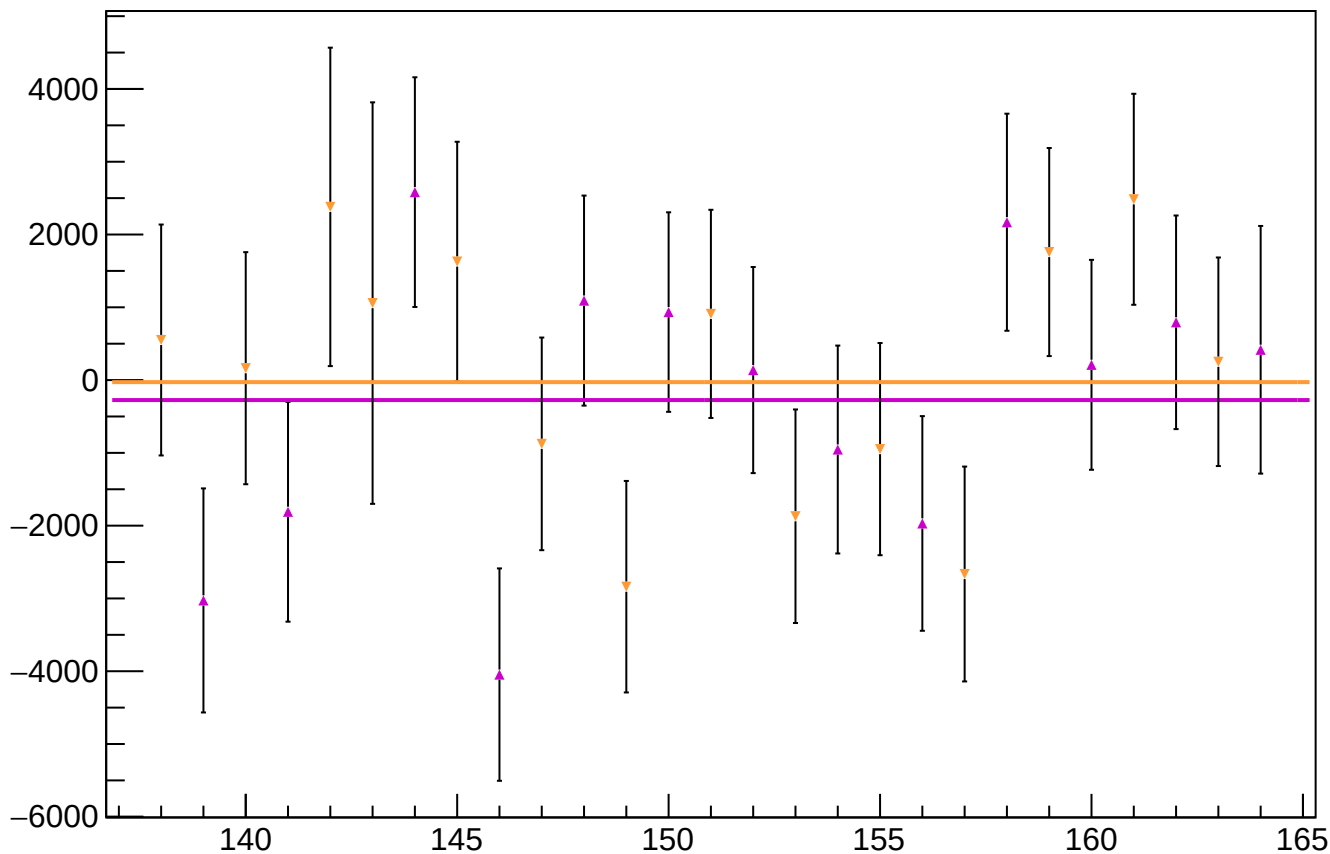
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5235.010+/-1.166  $\chi^2/\text{NDF}$ :574643.4/12

Out: 4902.682+/-1.095  $\chi^2/\text{NDF}$ :939996.1/13

All: 5058.439+/-0.798  $\chi^2/\text{NDF}$ : 1557773.4/26

dit\_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: -28.031+/-415.995  $\chi^2/\text{NDF}$ :16.8/13

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

Left In: -274.513+/-410.515  $\chi^2/\text{NDF}$ :21.0/12

Left: -152.906+/-292.196  $\chi^2/\text{NDF}$ : 38.0/26

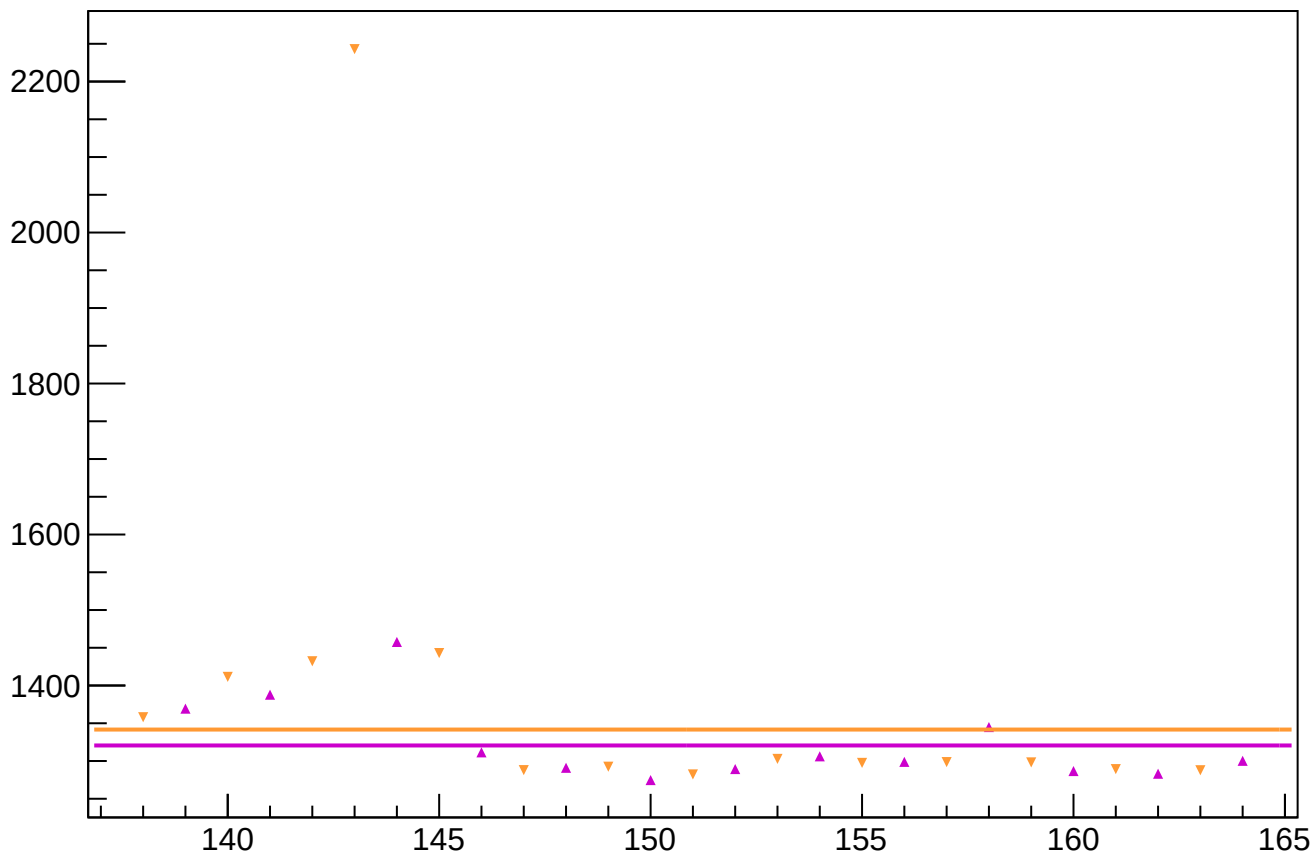
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -274.513+/-410.515  $\chi^2/\text{NDF}$ :21.0/12

Out: -28.031+/-415.995  $\chi^2/\text{NDF}$ :16.8/13

All: -152.906+/-292.196  $\chi^2/\text{NDF}$ : 38.0/26

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: 1341.662+/-0.294  $\chi^2/\text{NDF}$ :249274.1/13

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

Left In: 1320.584+/-0.290  $\chi^2/\text{NDF}$ :29066.0/12

Left: 1330.983+/-0.207  $\chi^2/\text{NDF}$ : 280941.5/26

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

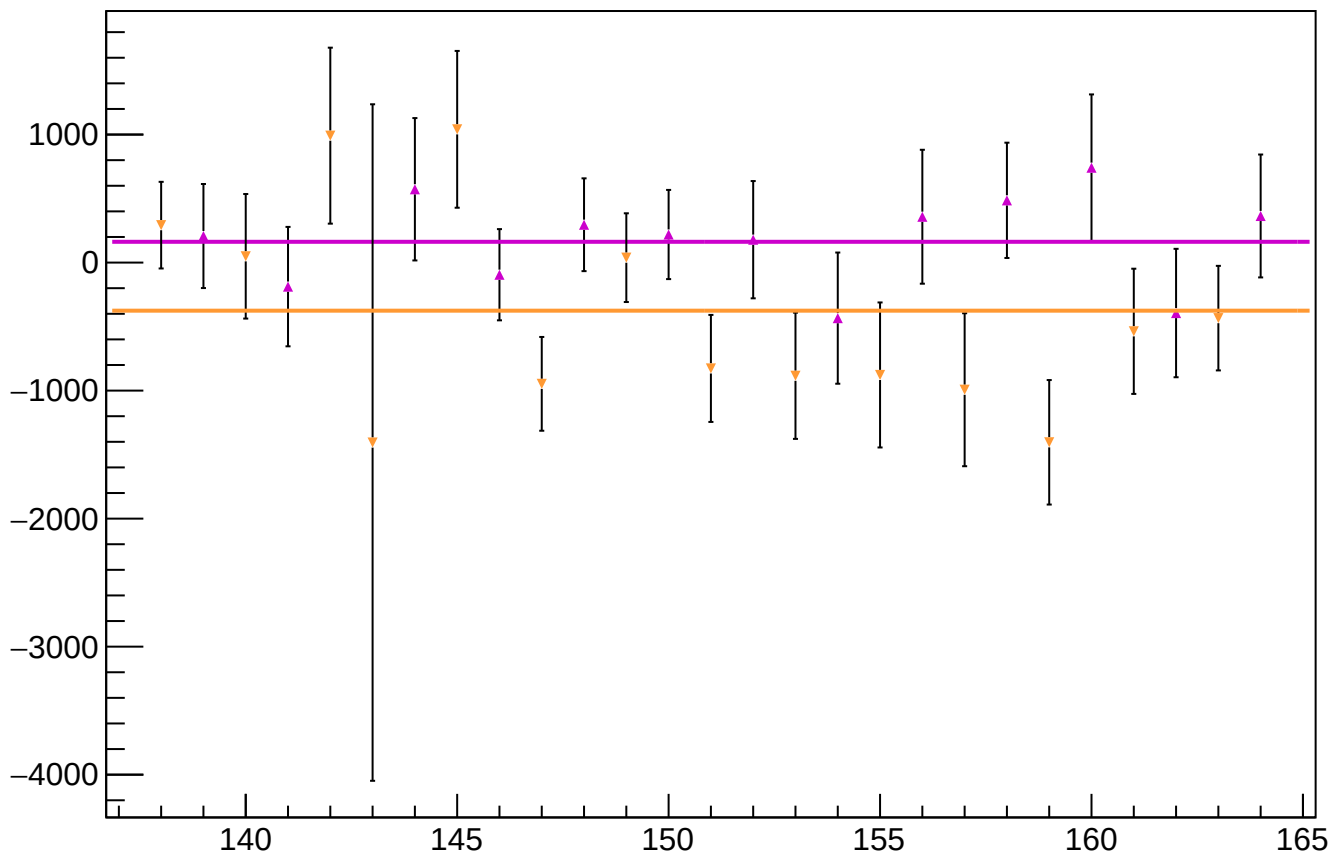
In: 1320.584+/-0.290  $\chi^2/\text{NDF}$ :29066.0/12

Out: 1341.662+/-0.294  $\chi^2/\text{NDF}$ :249274.1/13

All: 1330.983+/-0.207  $\chi^2/\text{NDF}$ : 280941.5/26



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: -375.612+/-125.165  $\chi^2/\text{NDF}$ :26.7/13

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

Left In: 162.333+/-122.947  $\chi^2/\text{NDF}$ :6.2/12

Left: -101.831+/-87.711  $\chi^2/\text{NDF}$ : 42.3/26

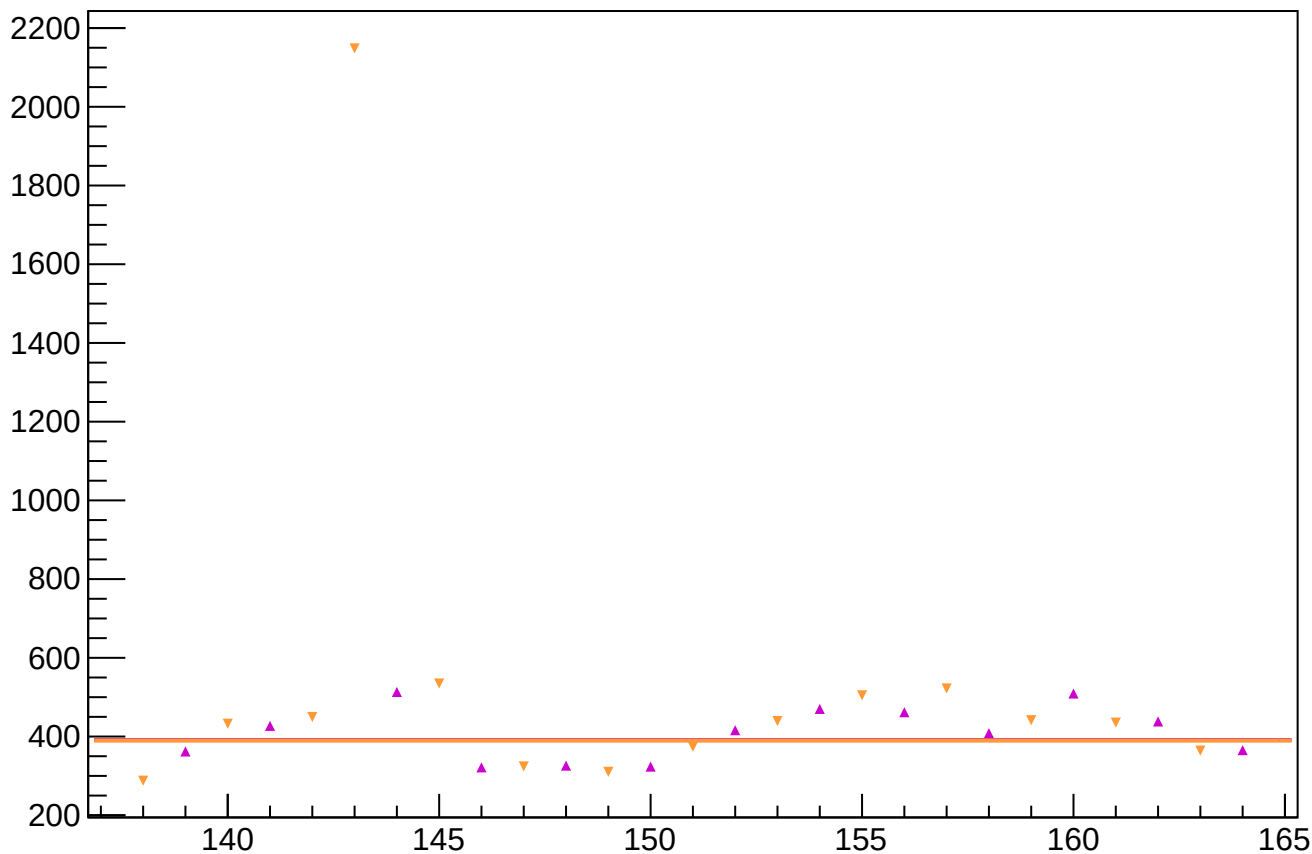
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 162.333+/-122.947  $\chi^2/\text{NDF}$ :6.2/12

Out: -375.612+/-125.165  $\chi^2/\text{NDF}$ :26.7/13

All: -101.831+/-87.711  $\chi^2/\text{NDF}$ : 42.3/26

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: 389.839+/-0.089  $\chi^2/\text{NDF}$ :1631453.0/13

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

Left In: 390.961+/-0.087  $\chi^2/\text{NDF}$ :535900.5/12

Left: 390.410+/-0.062  $\chi^2/\text{NDF}$ : 2167435.4/26

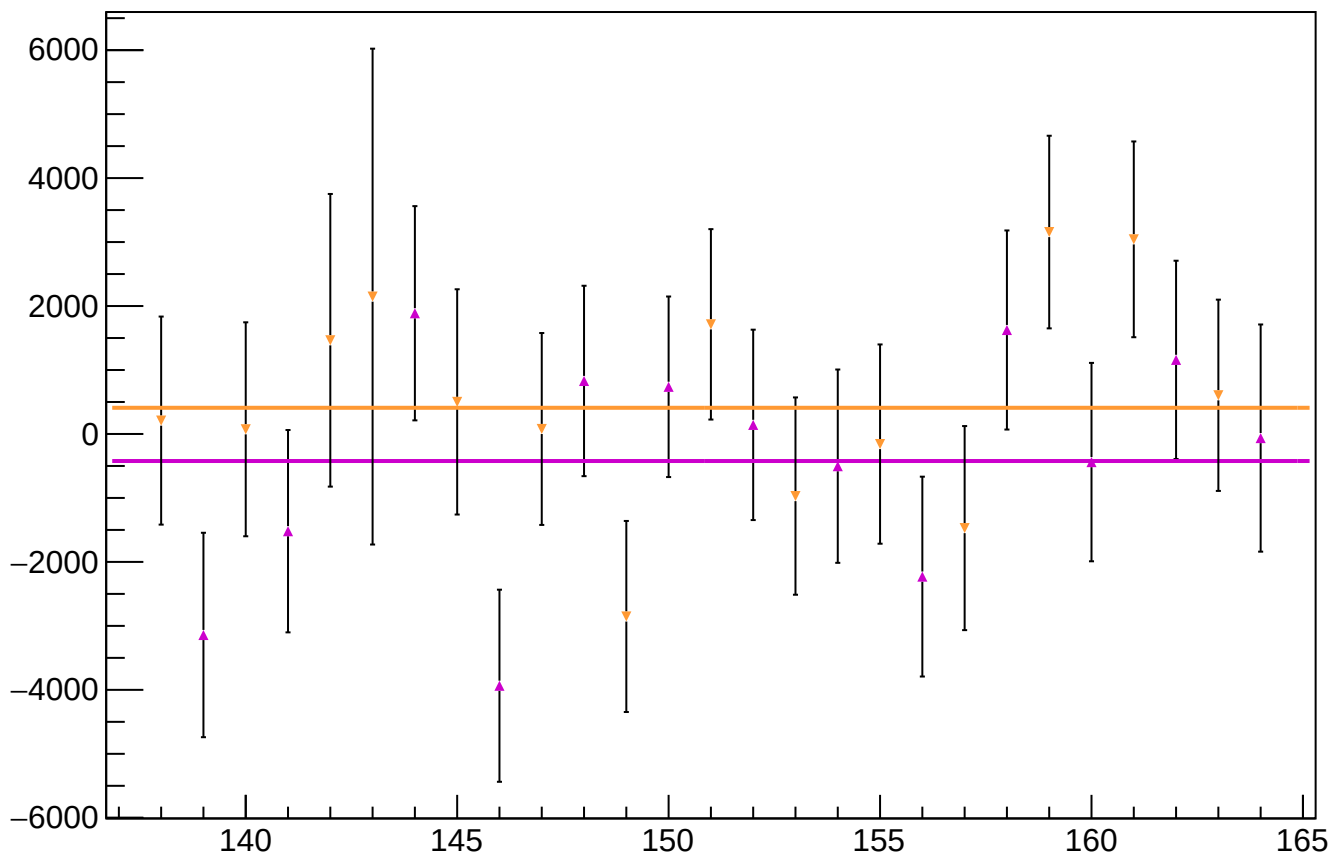
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 390.961+/-0.087  $\chi^2/\text{NDF}$ :535900.5/12

Out: 389.839+/-0.089  $\chi^2/\text{NDF}$ :1631453.0/13

All: 390.410+/-0.062  $\chi^2/\text{NDF}$ : 2167435.4/26

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: 409.364+/-438.450  $\chi^2/\text{NDF}$ :14.7/13

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

Left In: -422.754+/-430.041  $\chi^2/\text{NDF}$ :16.4/12

Left: -14.751+/-307.015  $\chi^2/\text{NDF}$ : 33.0/26

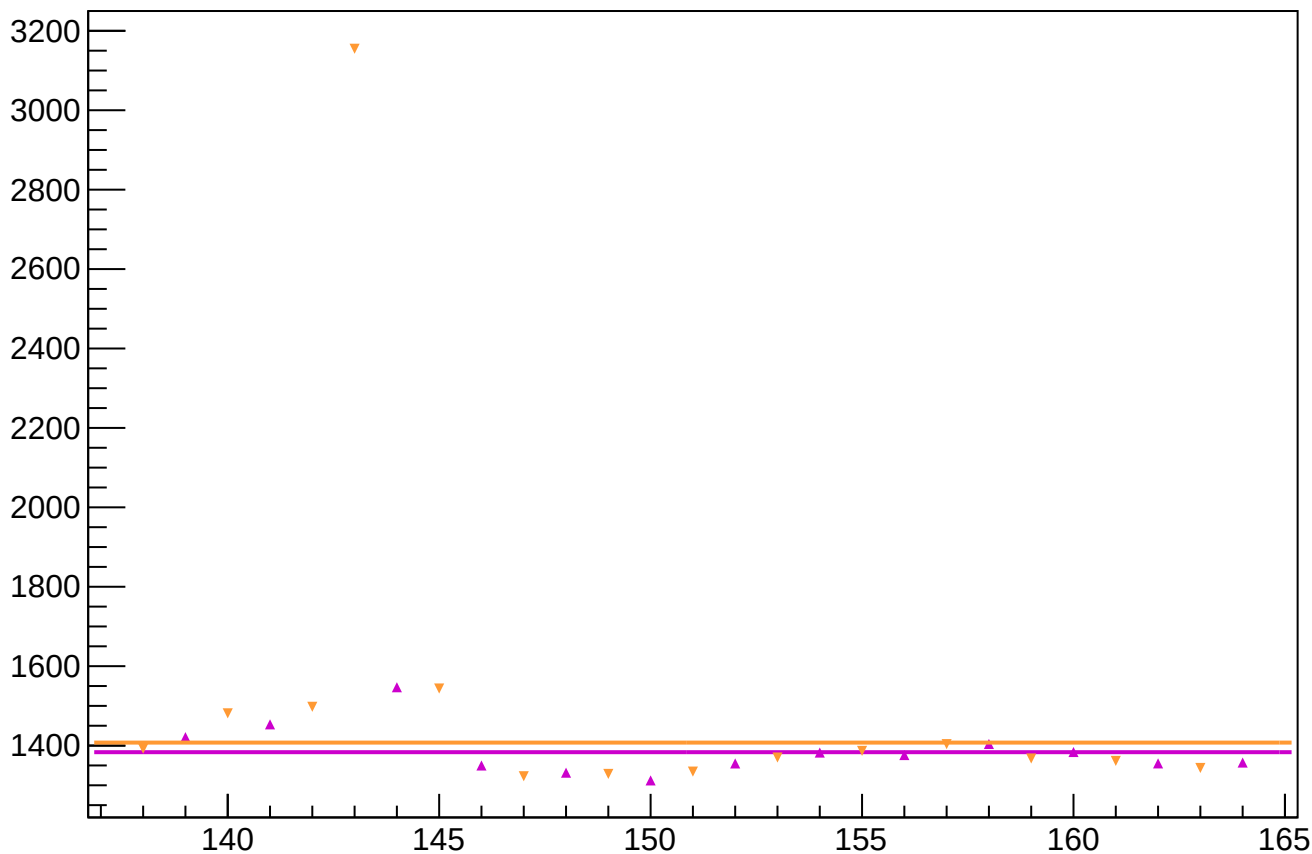
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -422.754+/-430.041  $\chi^2/\text{NDF}$ :16.4/12

Out: 409.364+/-438.450  $\chi^2/\text{NDF}$ :14.7/13

All: -14.751+/-307.015  $\chi^2/\text{NDF}$ : 33.0/26

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: 1407.560+/-0.310  $\chi^2/\text{NDF}$ :450877.6/13

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

Left In: 1383.390+/-0.304  $\chi^2/\text{NDF}$ :34830.7/12

Left: 1395.241+/-0.217  $\chi^2/\text{NDF}$ : 488806.0/26

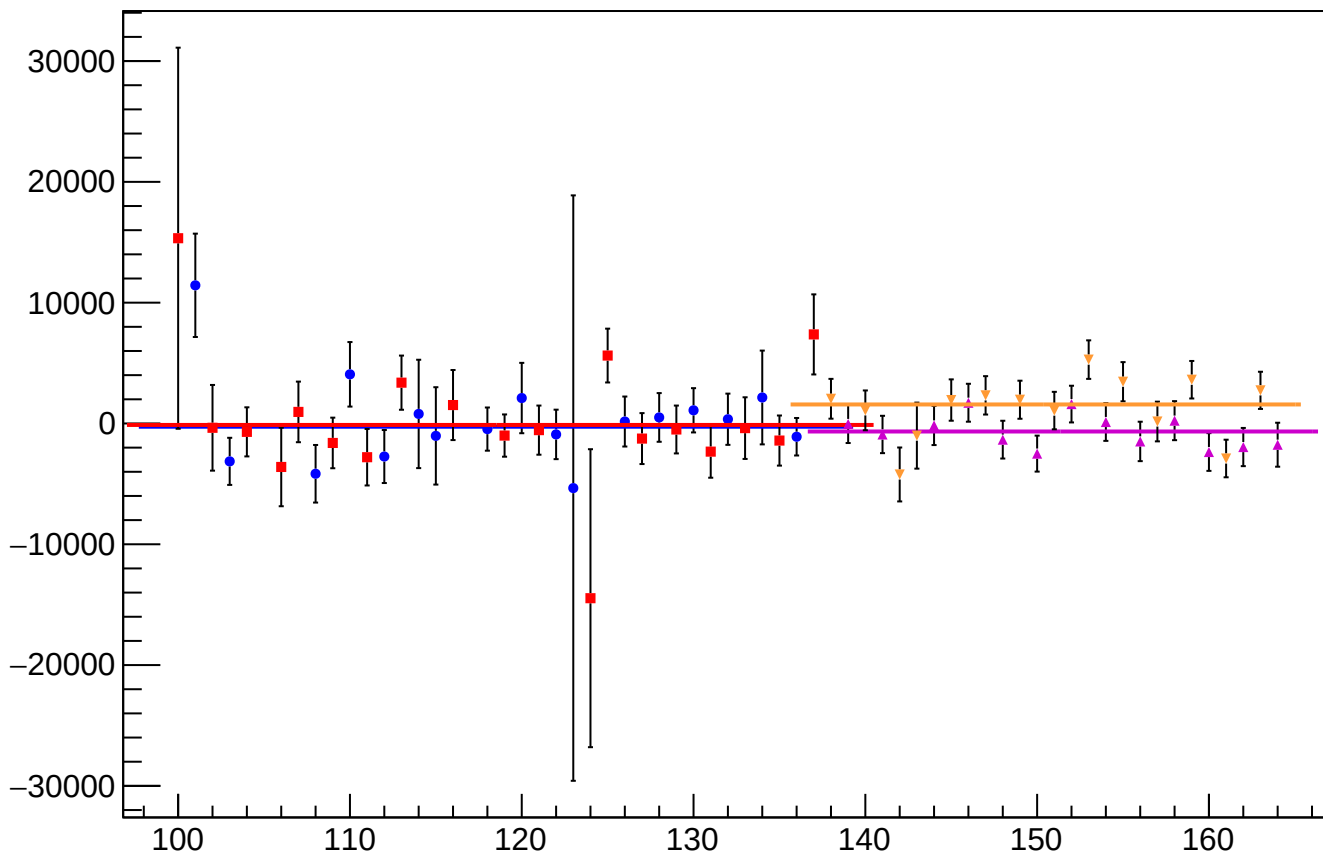
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1383.390+/-0.304  $\chi^2/\text{NDF}$ :34830.7/12

Out: 1407.560+/-0.310  $\chi^2/\text{NDF}$ :450877.6/13

All: 1395.241+/-0.217  $\chi^2/\text{NDF}$ : 488806.0/26

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



Right In: -266.664 $\pm$ 567.455  $\chi^2$ /NDF: 18.6/16

Left Out: 1573.775 $\pm$ 446.278  $\chi^2$ /NDF:26.3/13

Right Out: -122.072 $\pm$ 554.216  $\chi^2$ /NDF: 22.1/18

Left In: -664.421 $\pm$ 439.333  $\chi^2$ /NDF:9.5/12

Left: 437.125 $\pm$ 313.082  $\chi^2$ /NDF: 48.6/26

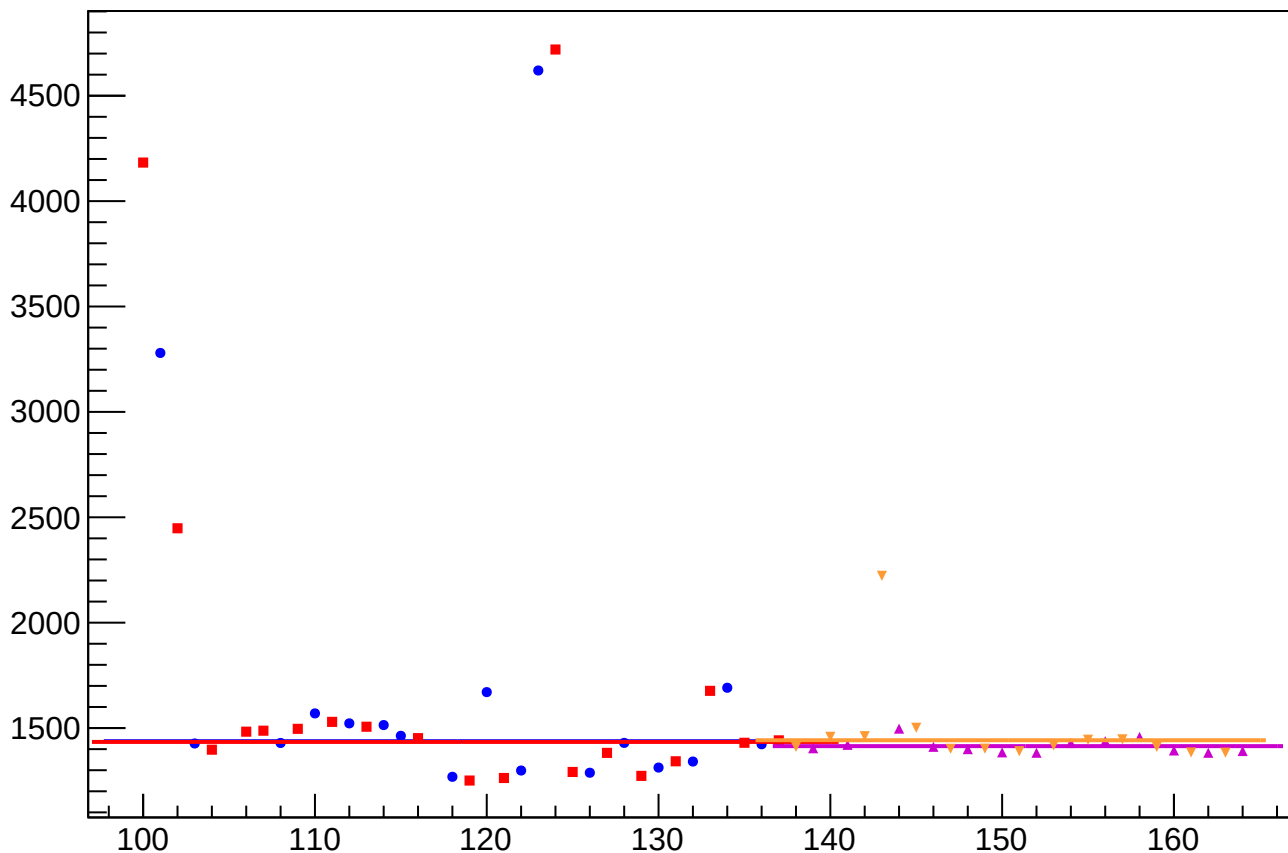
Right: -192.662 $\pm$ 396.488  $\chi^2$ /NDF: 40.8/35

In: -515.354 $\pm$ 347.387  $\chi^2$ /NDF:28.5/29

Out: 906.703 $\pm$ 347.594  $\chi^2$ /NDF:54.1/32

All: 195.251 $\pm$ 245.713  $\chi^2$ /NDF: 91.0/62

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



Right In: 1437.576 $\pm$ 0.401  $\chi^2$ /NDF: 486465.9/16

Left Out: 1442.163 $\pm$ 0.316  $\chi^2$ /NDF: 178350.8/13

Right Out: 1434.272 $\pm$ 0.392  $\chi^2$ /NDF: 455611.8/18

Left In: 1414.250 $\pm$ 0.311  $\chi^2$ /NDF: 10688.8/12

Left: 1427.987 $\pm$ 0.221  $\chi^2$ /NDF: 193013.0/26

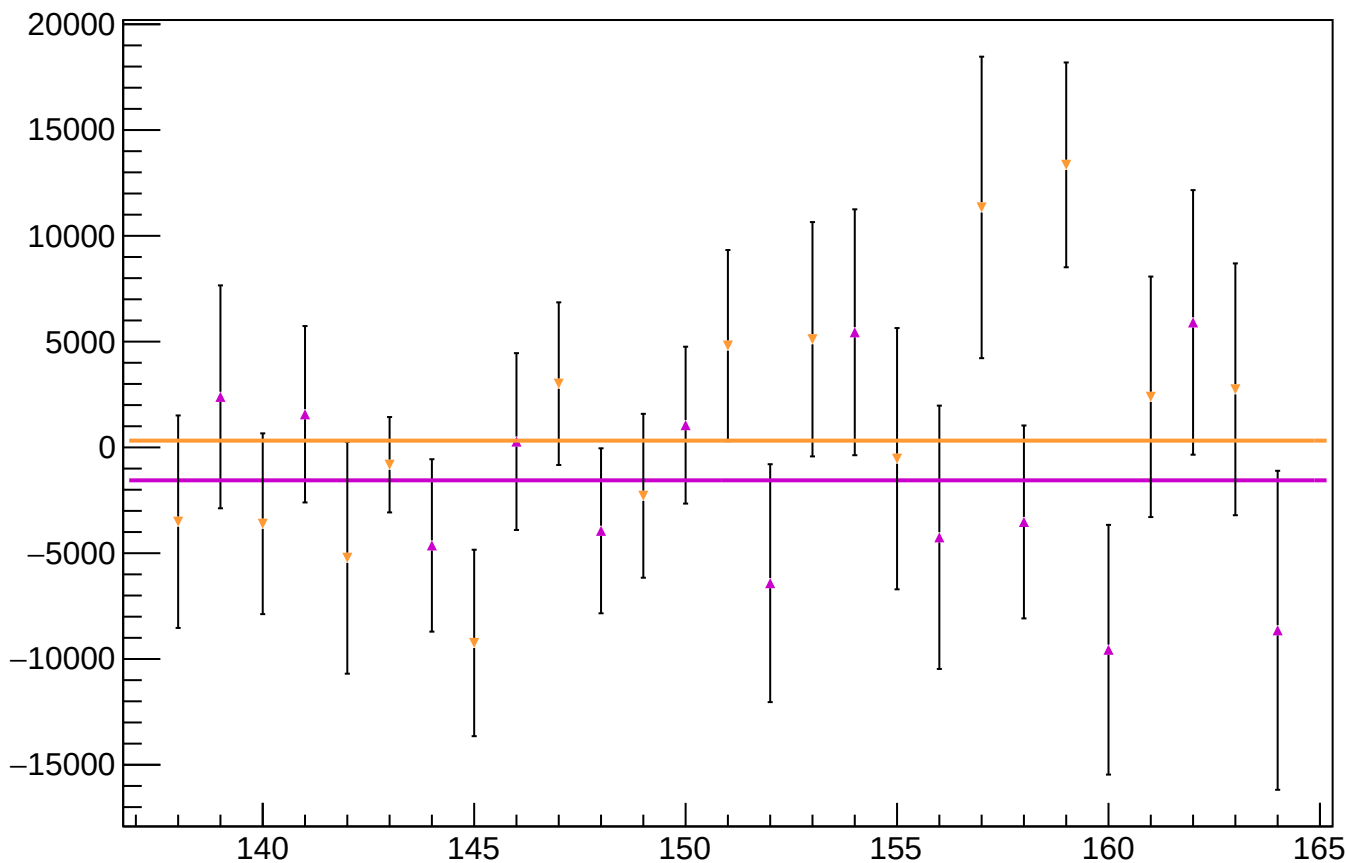
Right: 1435.884 $\pm$ 0.280  $\chi^2$ /NDF: 942112.4/35

In: 1422.992 $\pm$ 0.246  $\chi^2$ /NDF: 499267.7/29

Out: 1439.057 $\pm$ 0.246  $\chi^2$ /NDF: 634208.8/32

All: 1431.021 $\pm$ 0.174  $\chi^2$ /NDF: 1135614.3/62

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: 320.606+/-1162.515  $\chi^2/\text{NDF}$ :20.1/13

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

Left In: -1555.742+/-1340.272  $\chi^2/\text{NDF}$ :9.5/12

Left: -484.972+/-878.193  $\chi^2/\text{NDF}$ : 30.7/26

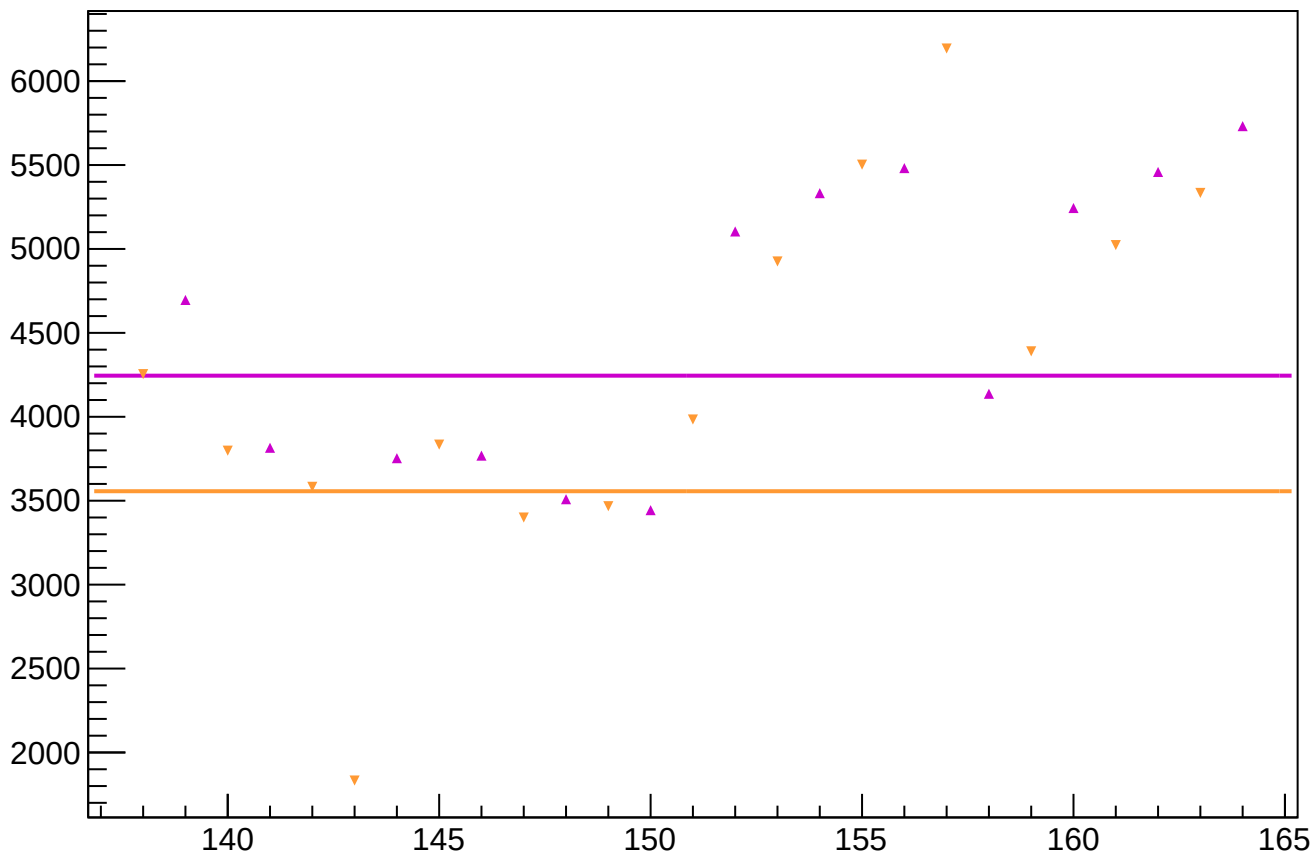
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1555.742+/-1340.272  $\chi^2/\text{NDF}$ :9.5/12

Out: 320.606+/-1162.515  $\chi^2/\text{NDF}$ :20.1/13

All: -484.972+/-878.193  $\chi^2/\text{NDF}$ : 30.7/26

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: 3556.516+/-0.822  $\chi^2/\text{NDF}$ :2210607.9/13

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

Left In: 4244.996+/-0.948  $\chi^2/\text{NDF}$ :663030.3/12

Left: 3852.103+/-0.621  $\chi^2/\text{NDF}$ : 3174806.3/26

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

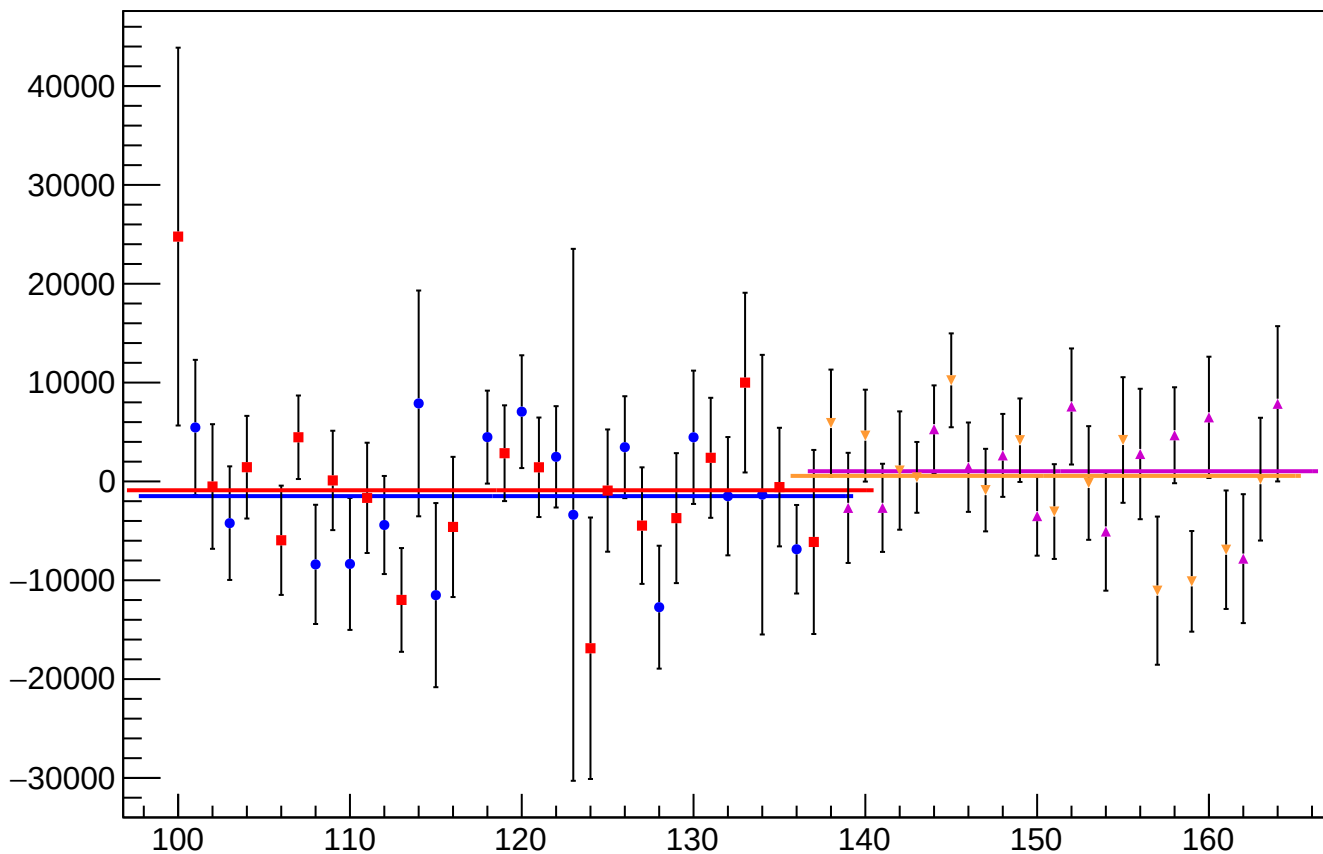
In: 4244.996+/-0.948  $\chi^2/\text{NDF}$ :663030.3/12

Out: 3556.516+/-0.822  $\chi^2/\text{NDF}$ :2210607.9/13

All: 3852.103+/-0.621  $\chi^2/\text{NDF}$ : 3174806.3/26



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: 560.438 $\pm$ 1345.124  $\chi^2$ /NDF:16.0/13

Right Out: -894.160 $\pm$ 1378.910  $\chi^2$ /NDF: 14.1/18

Left In: 1032.242 $\pm$ 1428.481  $\chi^2$ /NDF:9.8/12

Left: 782.173 $\pm$ 979.289  $\chi^2$ /NDF: 25.9/26

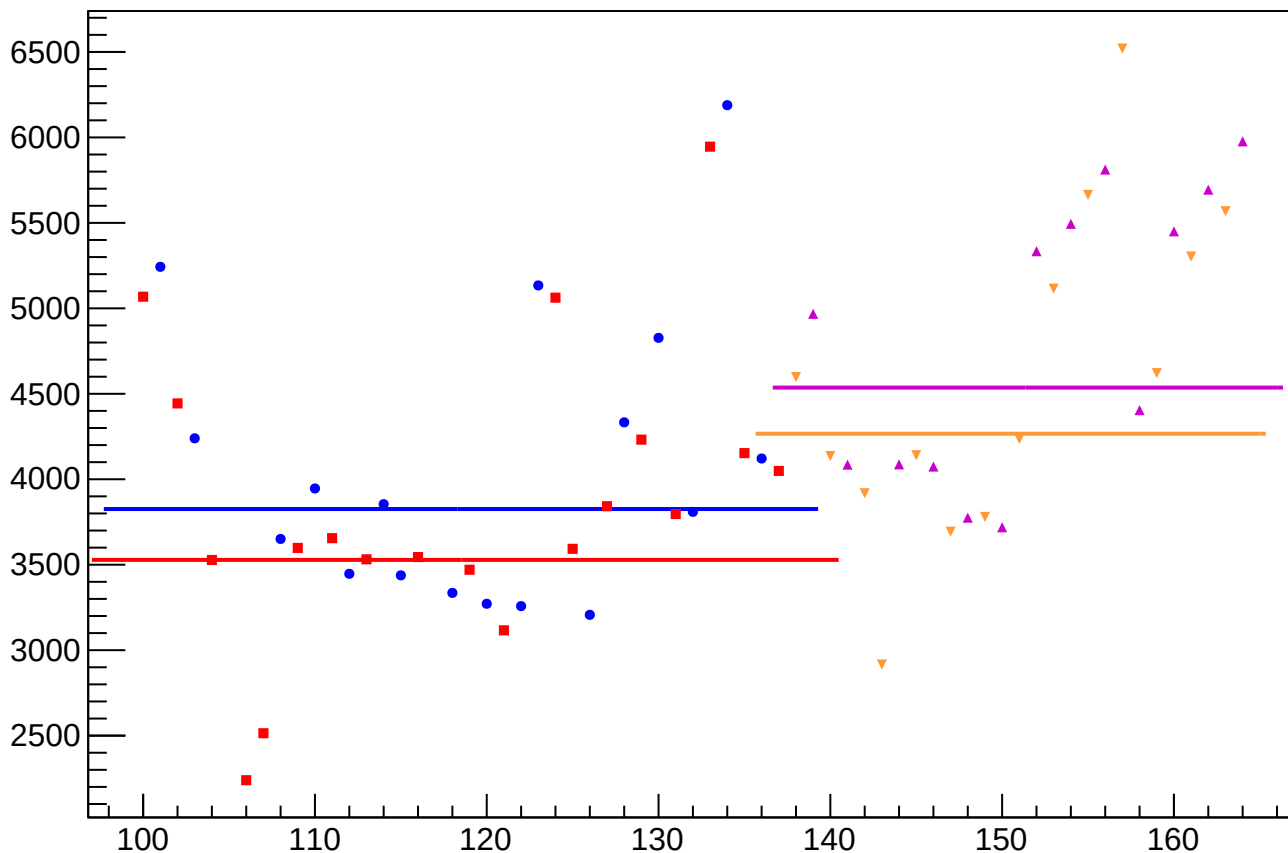
Right: -1165.879 $\pm$ 1014.876  $\chi^2$ /NDF: 30.9/35

In: -166.650 $\pm$ 1034.158  $\chi^2$ /NDF:27.9/29

Out: -148.822 $\pm$ 962.869  $\chi^2$ /NDF:30.7/32

All: -157.101 $\pm$ 704.707  $\chi^2$ /NDF: 58.6/62

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: 4266.314+/-0.951  $\chi^2/\text{NDF}$ :844100.6/13

Right Out: 3528.289+/-0.966  $\chi^2/\text{NDF}$ : 555414.1/18

Left In: 4536.406+/-1.010  $\chi^2/\text{NDF}$ :562048.8/12

Left: 4393.250+/-0.692  $\chi^2/\text{NDF}$ : 1444046.0/26

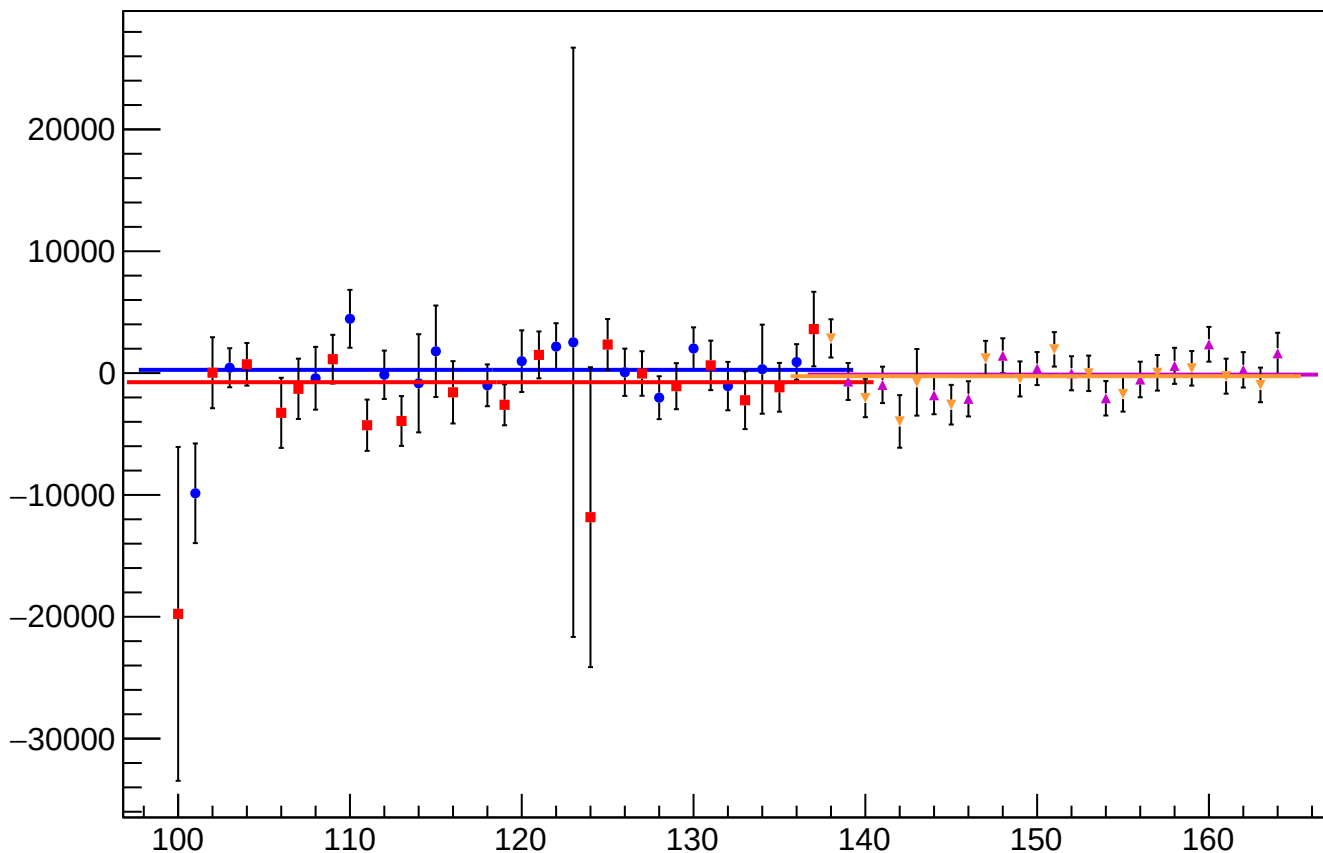
Right: 3663.316+/-0.714  $\chi^2/\text{NDF}$ : 932858.8/35

In: 4198.250+/-0.731  $\chi^2/\text{NDF}$ :1131958.5/29

Out: 3903.086+/-0.678  $\chi^2/\text{NDF}$ :1695831.8/32

All: 4039.490+/-0.497  $\chi^2/\text{NDF}$ : 2915423.9/62

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: -255.367 $\pm$ 411.770  $\chi^2$ /NDF:15.3/13

Right Out: -747.421 $\pm$ 511.778  $\chi^2$ /NDF: 18.4/18

Left In: -123.407 $\pm$ 406.210  $\chi^2$ /NDF:11.2/12

Left: -188.490 $\pm$ 289.180  $\chi^2$ /NDF: 26.6/26

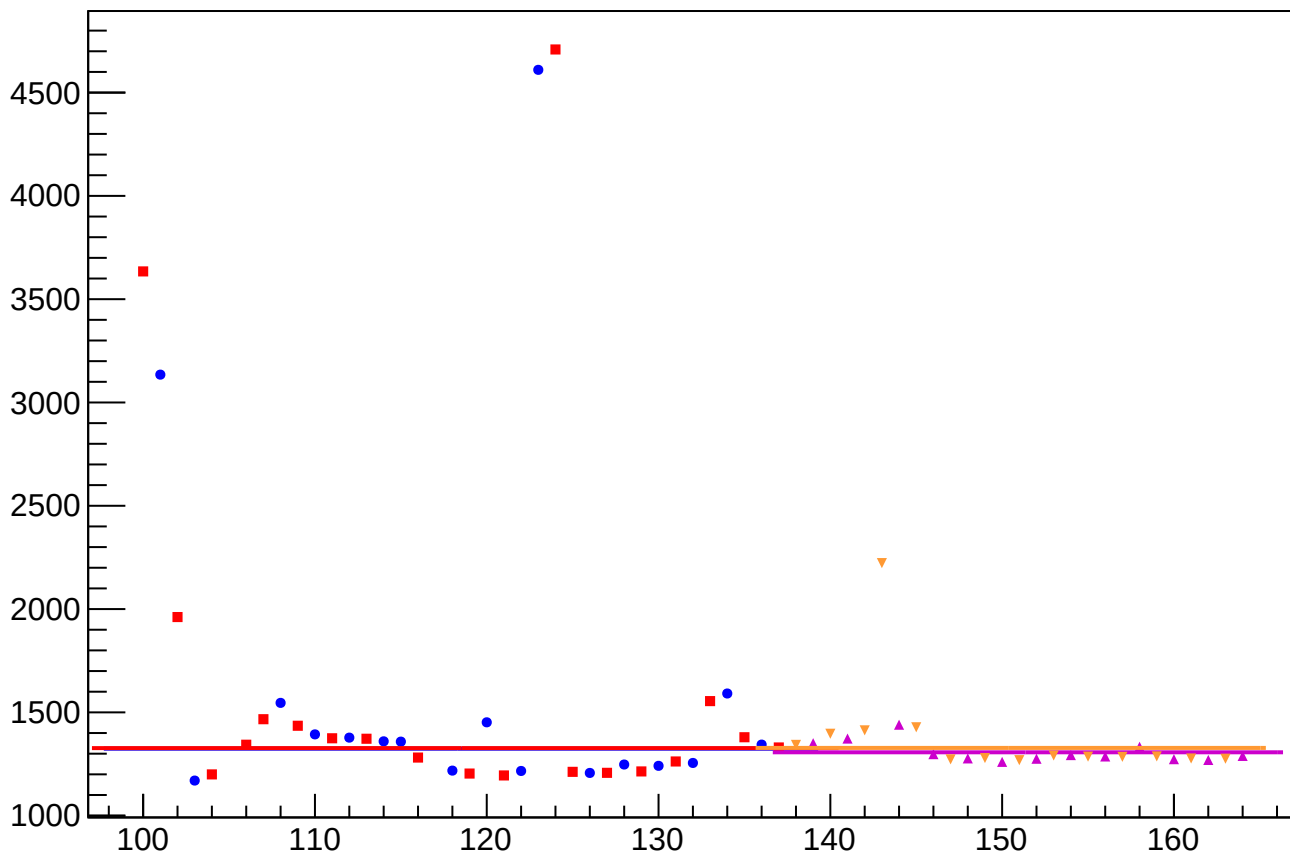
Right: -252.218 $\pm$ 365.966  $\chi^2$ /NDF: 35.0/35

In: 22.924 $\pm$ 320.933  $\chi^2$ /NDF:26.2/29

Out: -448.729 $\pm$ 320.819  $\chi^2$ /NDF:34.3/32

All: -212.986 $\pm$ 226.894  $\chi^2$ /NDF: 61.5/62

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



Right In: 1324.281 $\pm$ 0.370  $\chi^2$ /NDF: 514089.5/16

Left Out: 1327.956 $\pm$ 0.291  $\chi^2$ /NDF: 249245.9/13

Right Out: 1326.975 $\pm$ 0.362  $\chi^2$ /NDF: 392077.2/18

Left In: 1306.722 $\pm$ 0.287  $\chi^2$ /NDF: 28406.9/12

Left: 1317.195 $\pm$ 0.204  $\chi^2$ /NDF: 280347.9/26

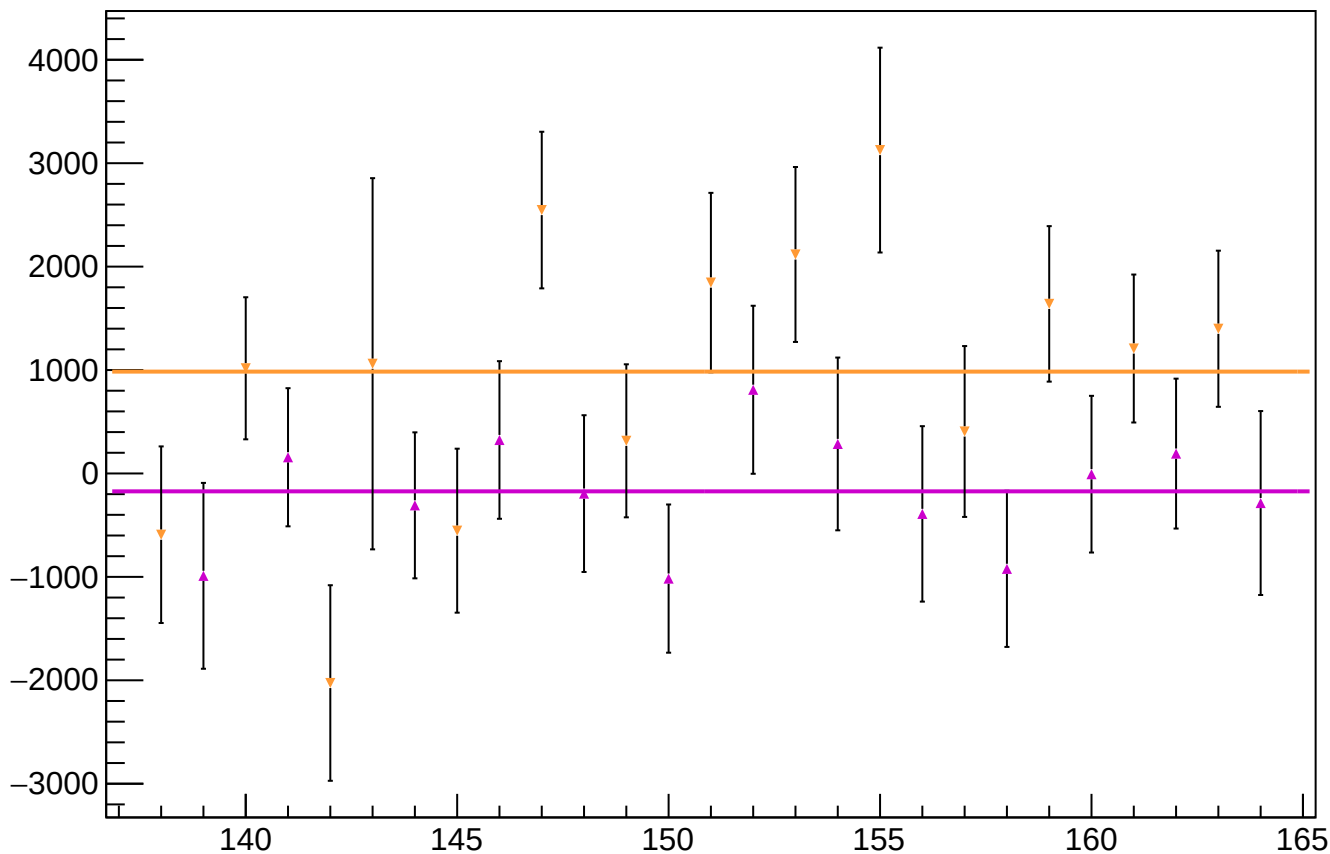
Right: 1325.659 $\pm$ 0.259  $\chi^2$ /NDF: 906193.7/35

In: 1313.321 $\pm$ 0.227  $\chi^2$ /NDF: 543900.7/29

Out: 1327.570 $\pm$ 0.227  $\chi^2$ /NDF: 641327.5/32

All: 1320.448 $\pm$ 0.160  $\chi^2$ /NDF: 1187200.2/62

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: 984.838+/-219.413  $\chi^2/\text{NDF}$ :31.5/13

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

Left In: -173.004+/-213.680  $\chi^2/\text{NDF}$ :6.0/12

Left: 390.594+/-153.081  $\chi^2/\text{NDF}$ : 51.8/26

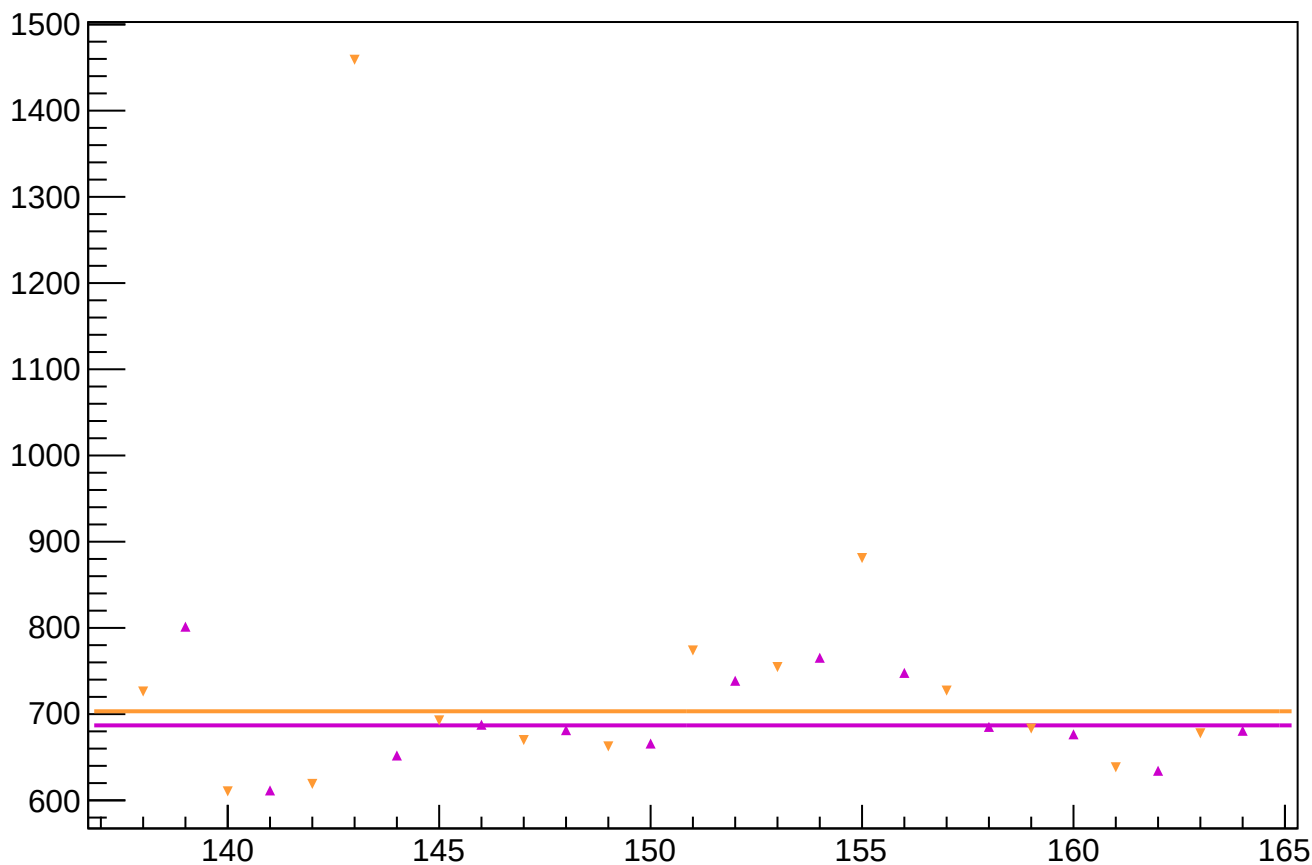
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -173.004+/-213.680  $\chi^2/\text{NDF}$ :6.0/12

Out: 984.838+/-219.413  $\chi^2/\text{NDF}$ :31.5/13

All: 390.594+/-153.081  $\chi^2/\text{NDF}$ : 51.8/26

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: 703.296+/-0.155  $\chi^2/\text{NDF}$ : 525781.5/13

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

Left In: 686.940+/-0.151  $\chi^2/\text{NDF}$ : 111817.5/12

Left: 694.902+/-0.108  $\chi^2/\text{NDF}$ : 643302.8/26

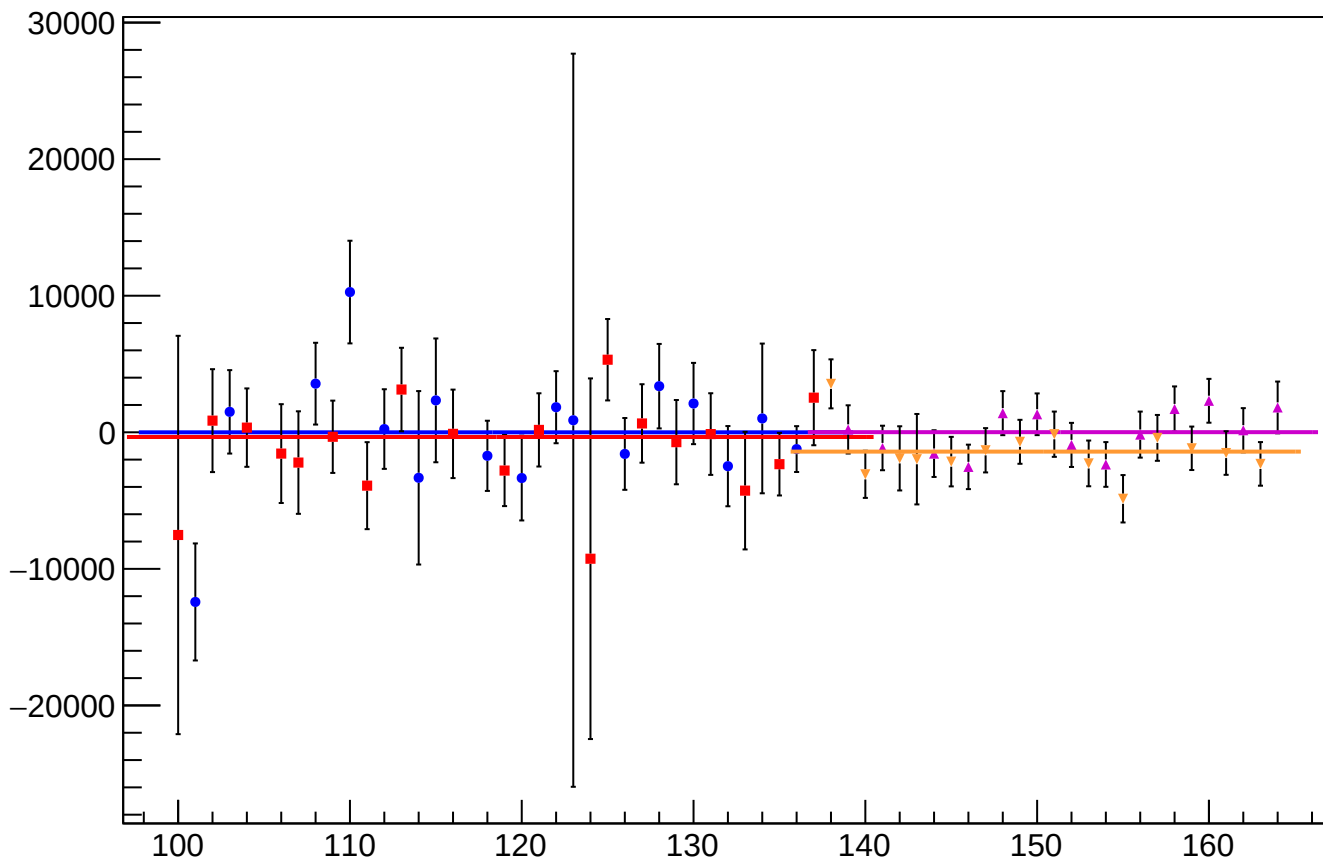
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 686.940+/-0.151  $\chi^2/\text{NDF}$ : 111817.5/12

Out: 703.296+/-0.155  $\chi^2/\text{NDF}$ : 525781.5/13

All: 694.902+/-0.108  $\chi^2/\text{NDF}$ : 643302.8/26

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:  $-1414.370 \pm 467.470$   $\chi^2/\text{NDF}$ : 14.5/13

Right Out:  $-345.148 \pm 733.723$   $\chi^2/\text{NDF}$ : 10.7/18

Left In:  $9.386 \pm 458.630$   $\chi^2/\text{NDF}$ : 11.7/12

Left:  $-688.903 \pm 327.381$   $\chi^2/\text{NDF}$ : 31.0/26

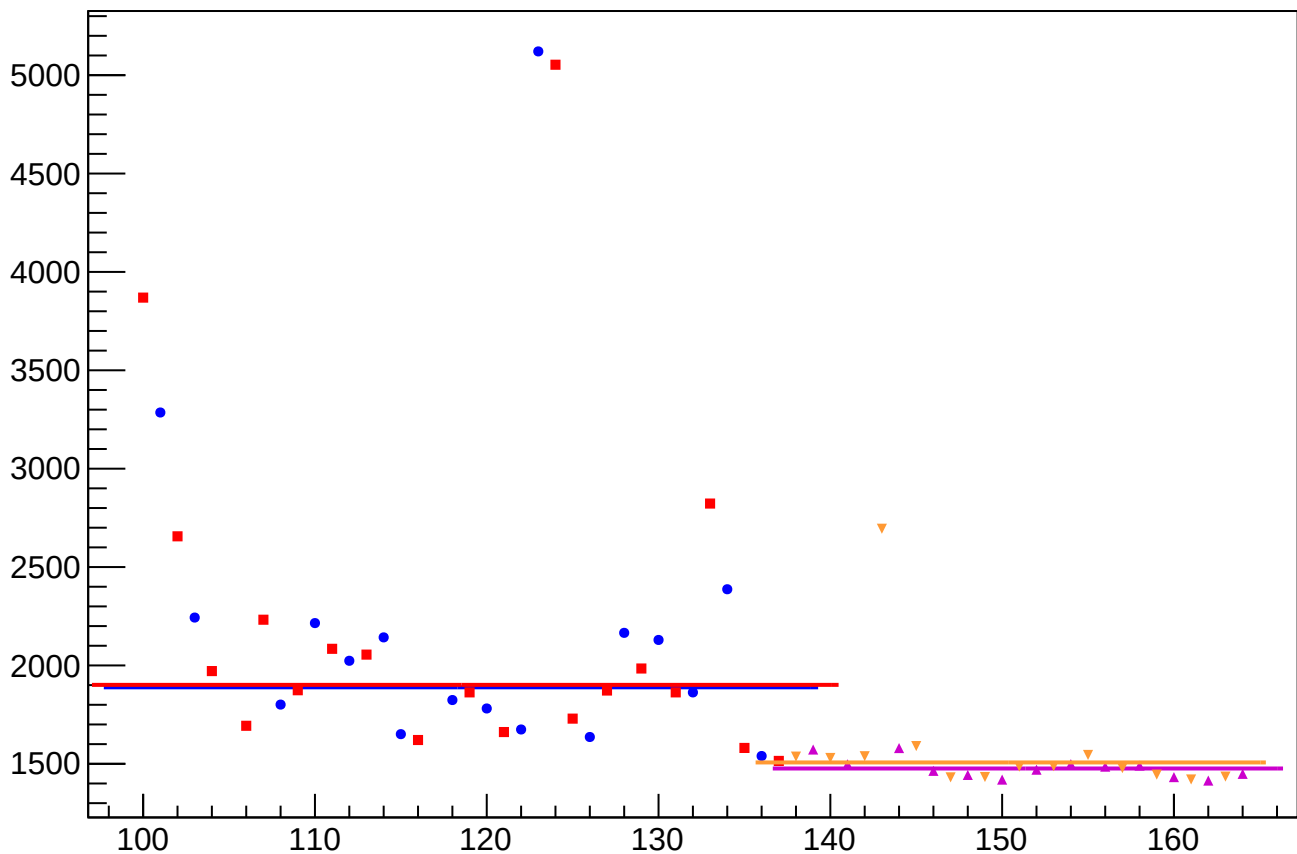
Right:  $-176.305 \pm 522.783$   $\chi^2/\text{NDF}$ : 34.3/35

In:  $6.201 \pm 390.565$   $\chi^2/\text{NDF}$ : 35.2/29

Out:  $-1105.661 \pm 394.251$   $\chi^2/\text{NDF}$ : 26.7/32

All:  $-544.509 \pm 277.465$   $\chi^2/\text{NDF}$ : 66.0/62

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



Right In:  $1888.810 \pm 0.527$   $\chi^2/\text{NDF}: 465842.8/16$

Left Out:  $1506.951 \pm 0.331$   $\chi^2/\text{NDF}: 286540.1/13$

Right Out:  $1901.248 \pm 0.519$   $\chi^2/\text{NDF}: 461424.3/18$

Left In:  $1476.177 \pm 0.324$   $\chi^2/\text{NDF}: 22741.0/12$

Left:  $1491.270 \pm 0.231$   $\chi^2/\text{NDF}: 313697.5/26$

Right:  $1895.125 \pm 0.370$   $\chi^2/\text{NDF}: 927550.0/35$

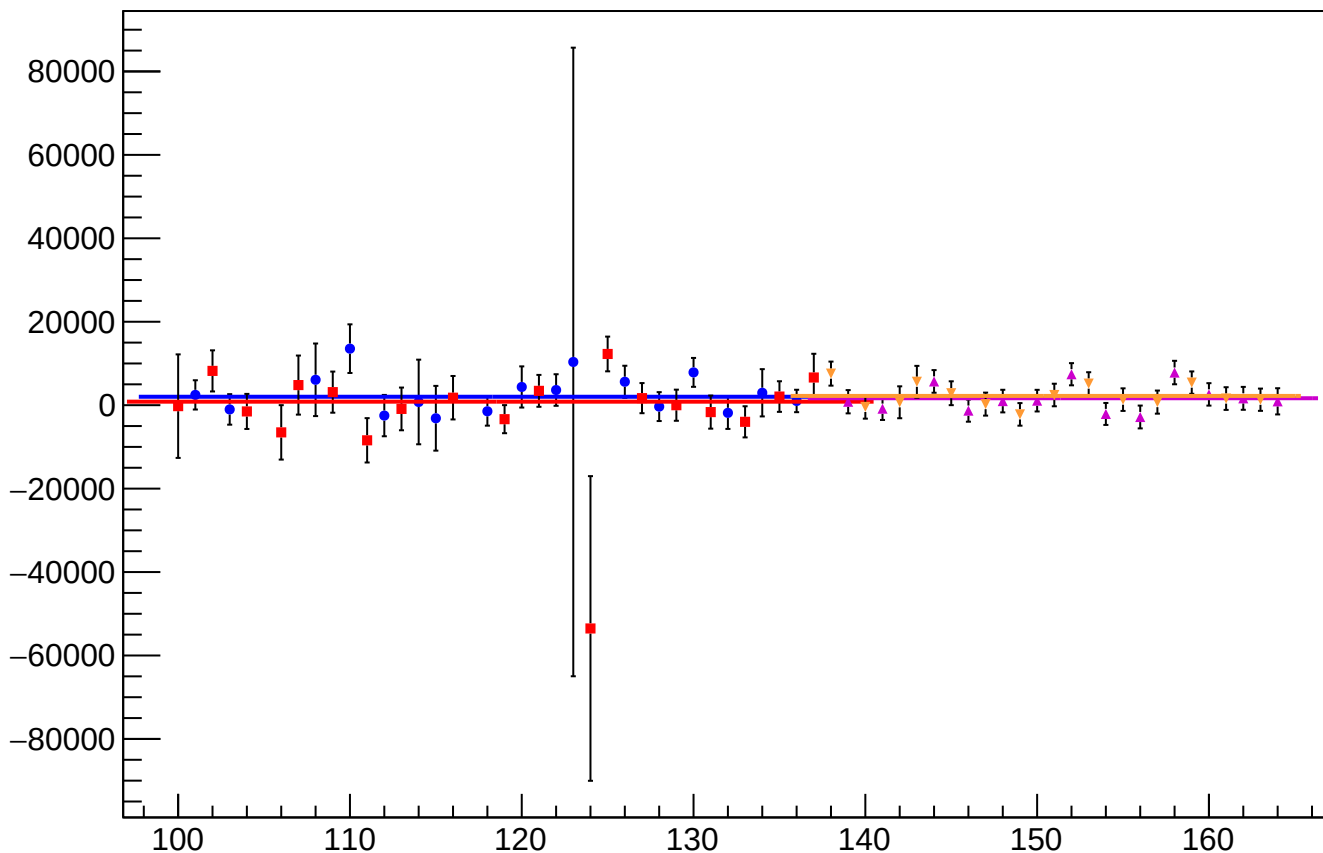
In:  $1589.566 \pm 0.276$   $\chi^2/\text{NDF}: 933462.7/29$

Out:  $1620.796 \pm 0.279$   $\chi^2/\text{NDF}: 1158794.1/32$

All:  $1605.034 \pm 0.196$   $\chi^2/\text{NDF}: 2098590.3/62$



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



Right In: 2021.418+/-1035.639  $\chi^2$ /NDF: 12.9/16

Left Out: 2219.996+/-760.791  $\chi^2$ /NDF:11.7/13

Right Out: 842.423+/-1051.980  $\chi^2$ /NDF: 22.7/18

Left In: 1663.679+/-757.003  $\chi^2$ /NDF:18.9/12

Left: 1940.449+/-536.616  $\chi^2$ /NDF: 30.8/26

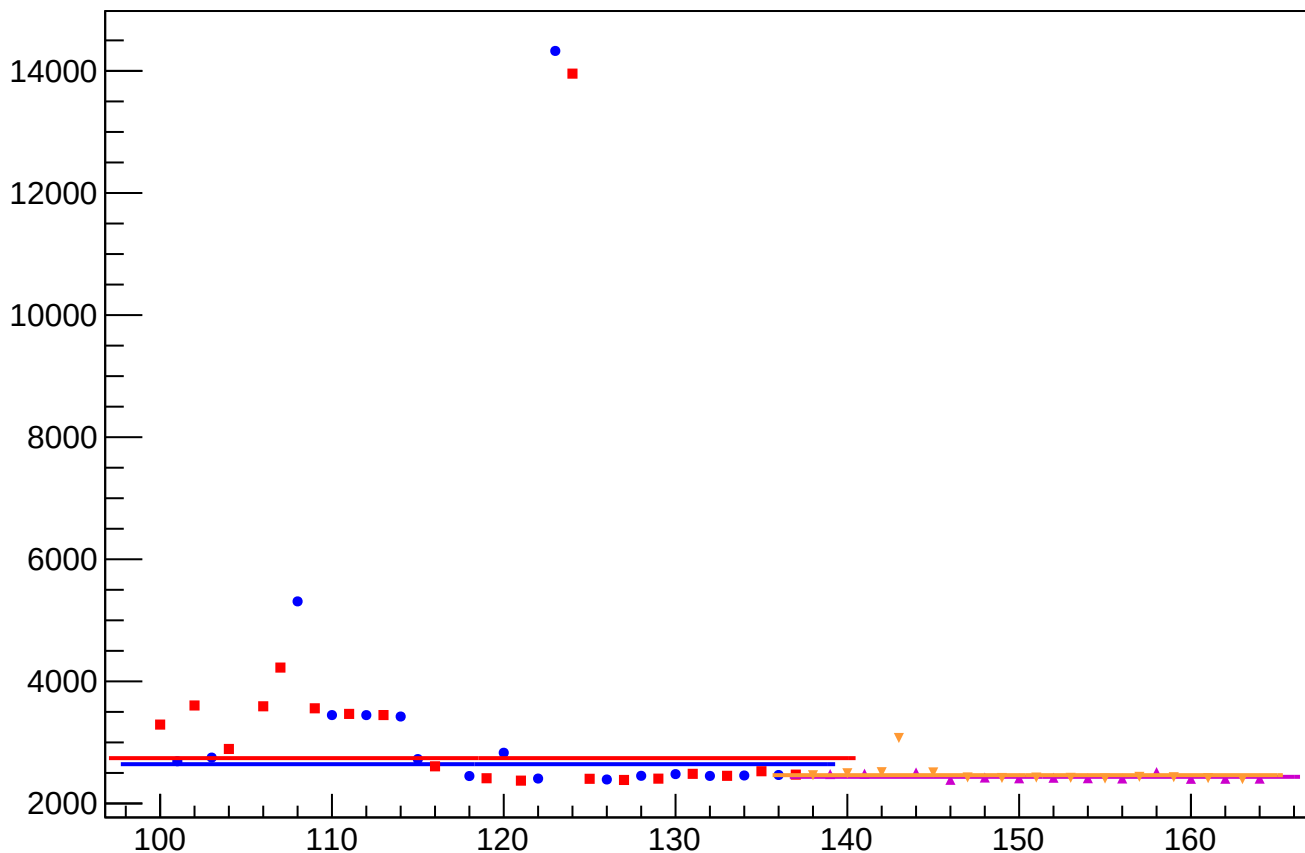
Right: 1441.149+/-738.017  $\chi^2$ /NDF: 36.2/35

In: 1788.255+/-611.144  $\chi^2$ /NDF:31.9/29

Out: 1746.926+/-616.472  $\chi^2$ /NDF:35.4/32

All: 1767.770+/-434.015  $\chi^2$ /NDF: 67.3/62

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2643.525+/-0.732  $\chi^2/\text{NDF}$ : 392705.3/16

Left Out: 2463.684+/-0.538  $\chi^2/\text{NDF}$ : 57270.6/13

Right Out: 2742.543+/-0.744  $\chi^2/\text{NDF}$ : 628009.1/18

Left In: 2436.386+/-0.535  $\chi^2/\text{NDF}$ : 6203.9/12

Left: 2449.967+/-0.379  $\chi^2/\text{NDF}$ : 64768.4/26

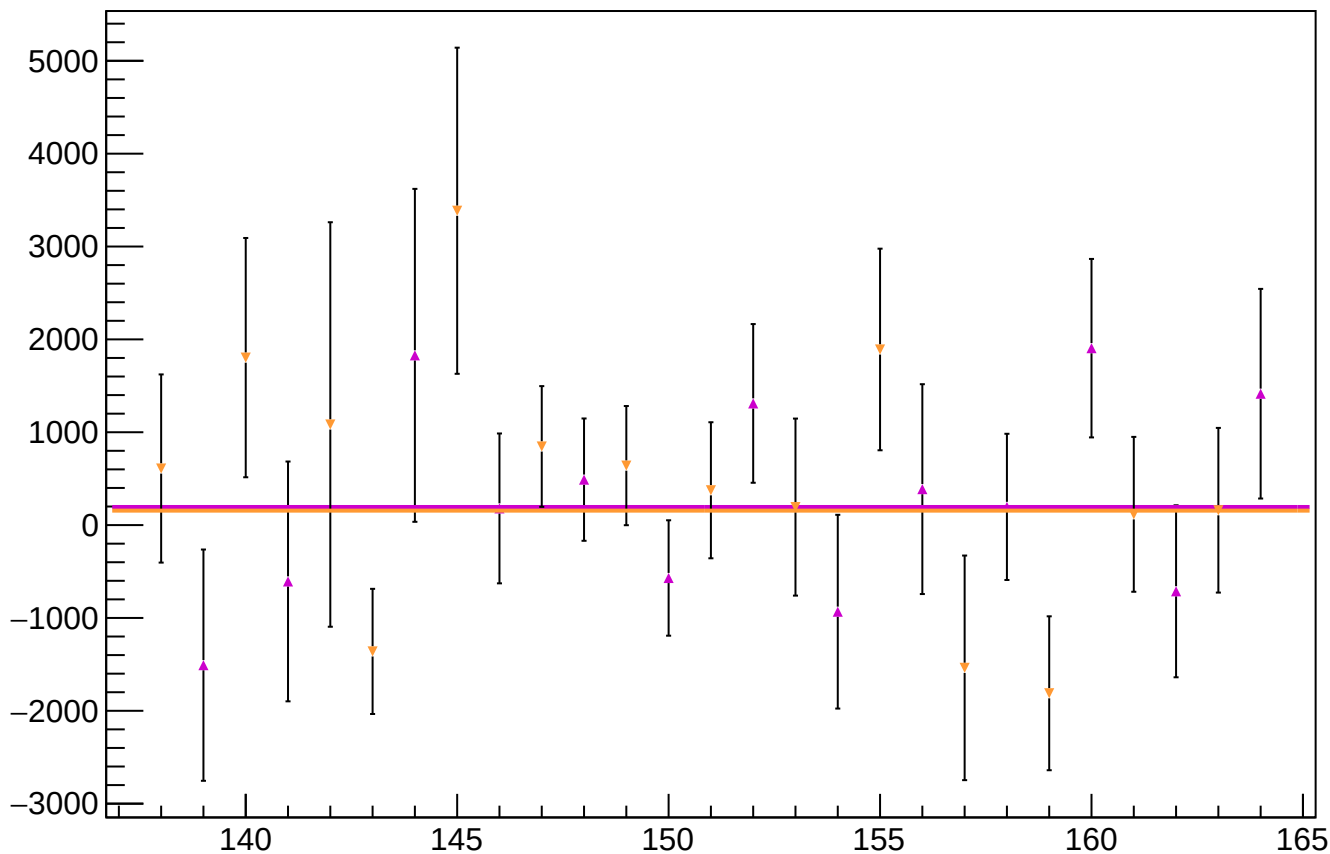
Right: 2692.259+/-0.522  $\chi^2/\text{NDF}$ : 1029712.7/35

In: 2508.519+/-0.432  $\chi^2/\text{NDF}$ : 451056.5/29

Out: 2559.446+/-0.436  $\chi^2/\text{NDF}$ : 777554.1/32

All: 2533.762+/-0.307  $\chi^2/\text{NDF}$ : 1235494.5/62

# asym\_atl1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 155.721+/-237.239  $\chi^2/\text{NDF}$ :22.4/13

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

Left In: 194.956+/-252.356  $\chi^2/\text{NDF}$ :13.0/12

Left: 174.128+/-172.851  $\chi^2/\text{NDF}$ : 35.4/26

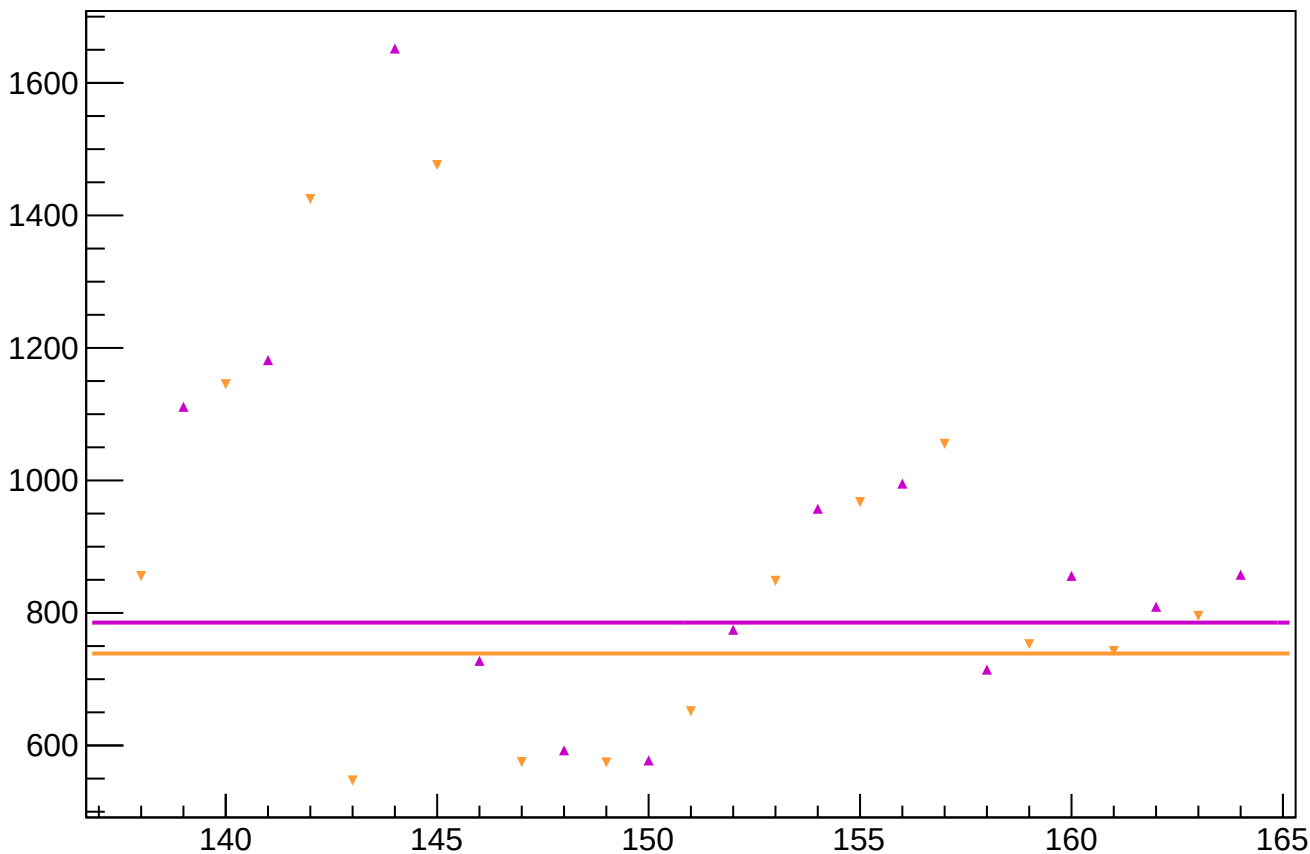
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 194.956+/-252.356  $\chi^2/\text{NDF}$ :13.0/12

Out: 155.721+/-237.239  $\chi^2/\text{NDF}$ :22.4/13

All: 174.128+/-172.851  $\chi^2/\text{NDF}$ : 35.4/26

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 738.791+/-0.168  $\chi^2/\text{NDF}$ :1485317.7/13

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

Left In: 785.429+/-0.178  $\chi^2/\text{NDF}$ :1357946.5/12

Left: 760.671+/-0.122  $\chi^2/\text{NDF}$ : 2879526.5/26

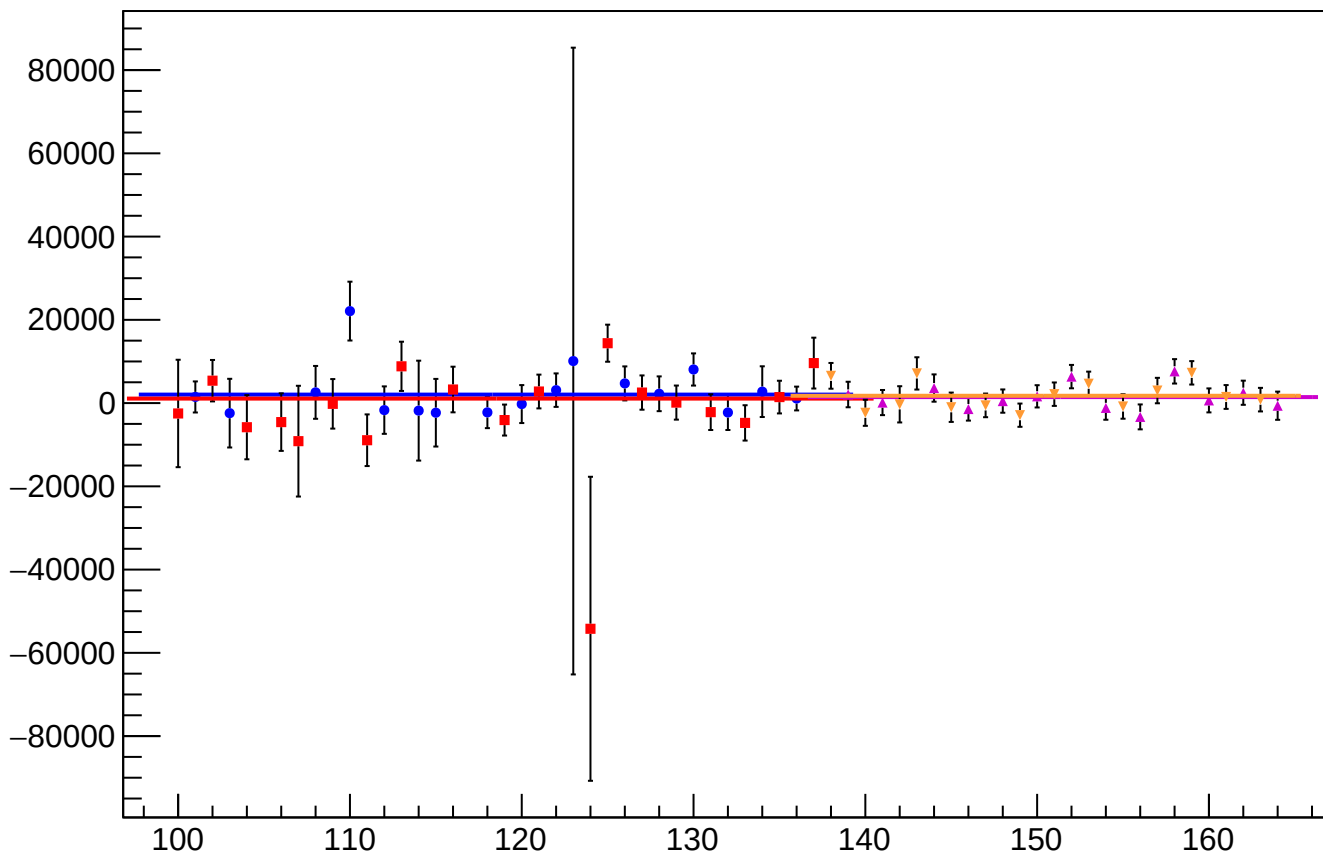
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 785.429+/-0.178  $\chi^2/\text{NDF}$ :1357946.5/12

Out: 738.791+/-0.168  $\chi^2/\text{NDF}$ :1485317.7/13

All: 760.671+/-0.122  $\chi^2/\text{NDF}$ : 2879526.5/26

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2037.803+/-1151.419  $\chi^2$ /NDF: 14.8/16

Left Out: 1757.305+/-816.749  $\chi^2$ /NDF:16.2/13

Right Out: 1080.125+/-1186.666  $\chi^2$ /NDF: 25.3/18

Left In: 1438.813+/-813.758  $\chi^2$ /NDF:13.3/12

Left: 1597.475+/-576.469  $\chi^2$ /NDF: 29.6/26

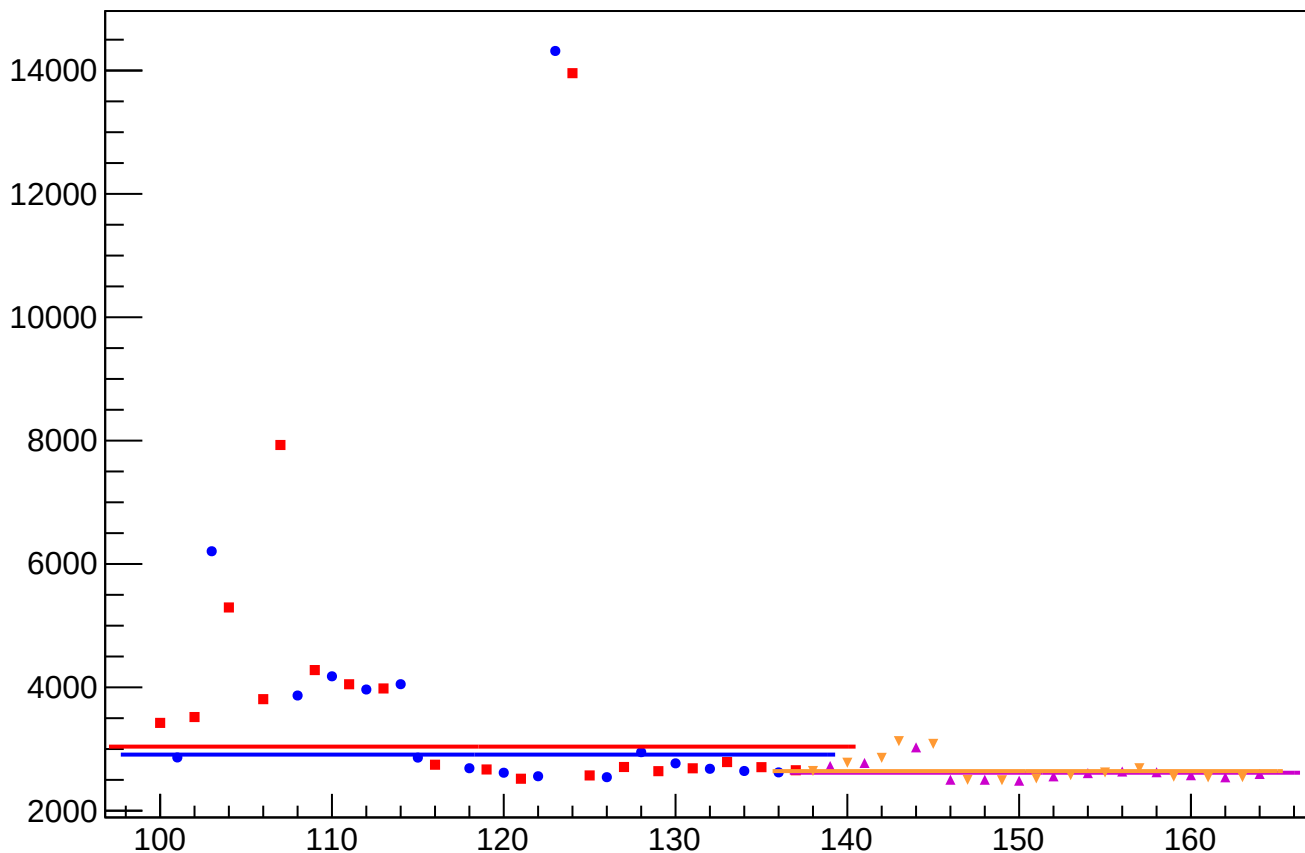
Right: 1573.398+/-826.356  $\chi^2$ /NDF: 40.5/35

In: 1638.340+/-664.544  $\chi^2$ /NDF:28.3/29

Out: 1539.630+/-672.793  $\chi^2$ /NDF:41.7/32

All: 1589.593+/-472.793  $\chi^2$ /NDF: 70.1/62

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2909.732+/-0.814  $\chi^2/\text{NDF}$ : 641894.7/16

Left Out: 2642.181+/-0.578  $\chi^2/\text{NDF}$ : 94063.2/13

Right Out: 3039.118+/-0.839  $\chi^2/\text{NDF}$ : 1011306.5/18

Left In: 2615.739+/-0.575  $\chi^2/\text{NDF}$ : 53530.5/12

Left: 2628.911+/-0.408  $\chi^2/\text{NDF}$ : 148645.7/26

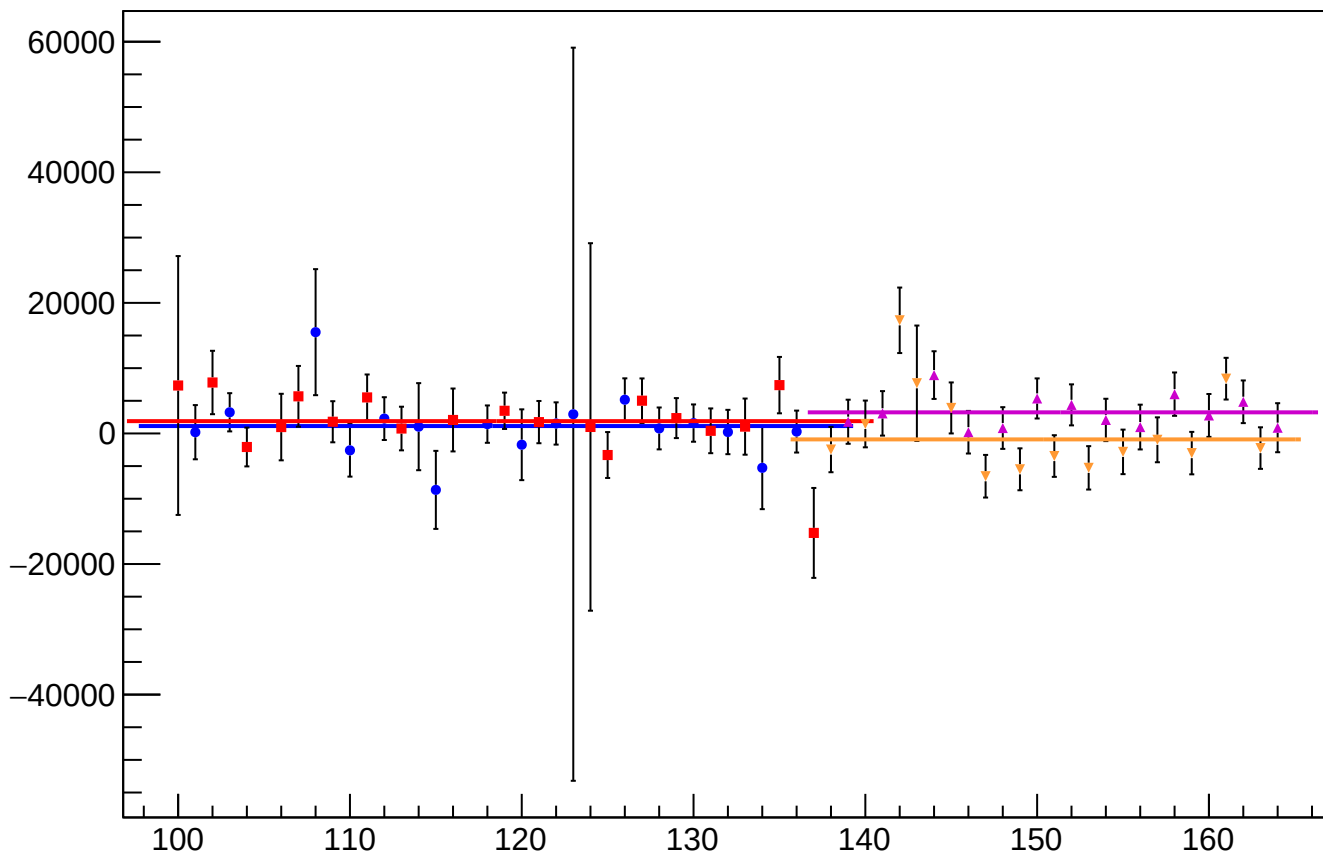
Right: 2972.475+/-0.584  $\chi^2/\text{NDF}$ : 1665447.8/35

In: 2713.670+/-0.470  $\chi^2/\text{NDF}$ : 782380.5/29

Out: 2769.774+/-0.476  $\chi^2/\text{NDF}$ : 1257215.3/32

All: 2741.376+/-0.334  $\chi^2/\text{NDF}$ : 2046635.5/62

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 1131.802 $\pm$ 926.744  $\chi^2$ /NDF: 9.5/16

Left Out: -911.478 $\pm$ 944.734  $\chi^2$ /NDF:33.1/13

Right Out: 1884.987 $\pm$ 887.115  $\chi^2$ /NDF: 16.6/18

Left In: 3232.423 $\pm$ 922.019  $\chi^2$ /NDF:6.6/12

Left: 1210.890 $\pm$ 659.850  $\chi^2$ /NDF: 49.5/26

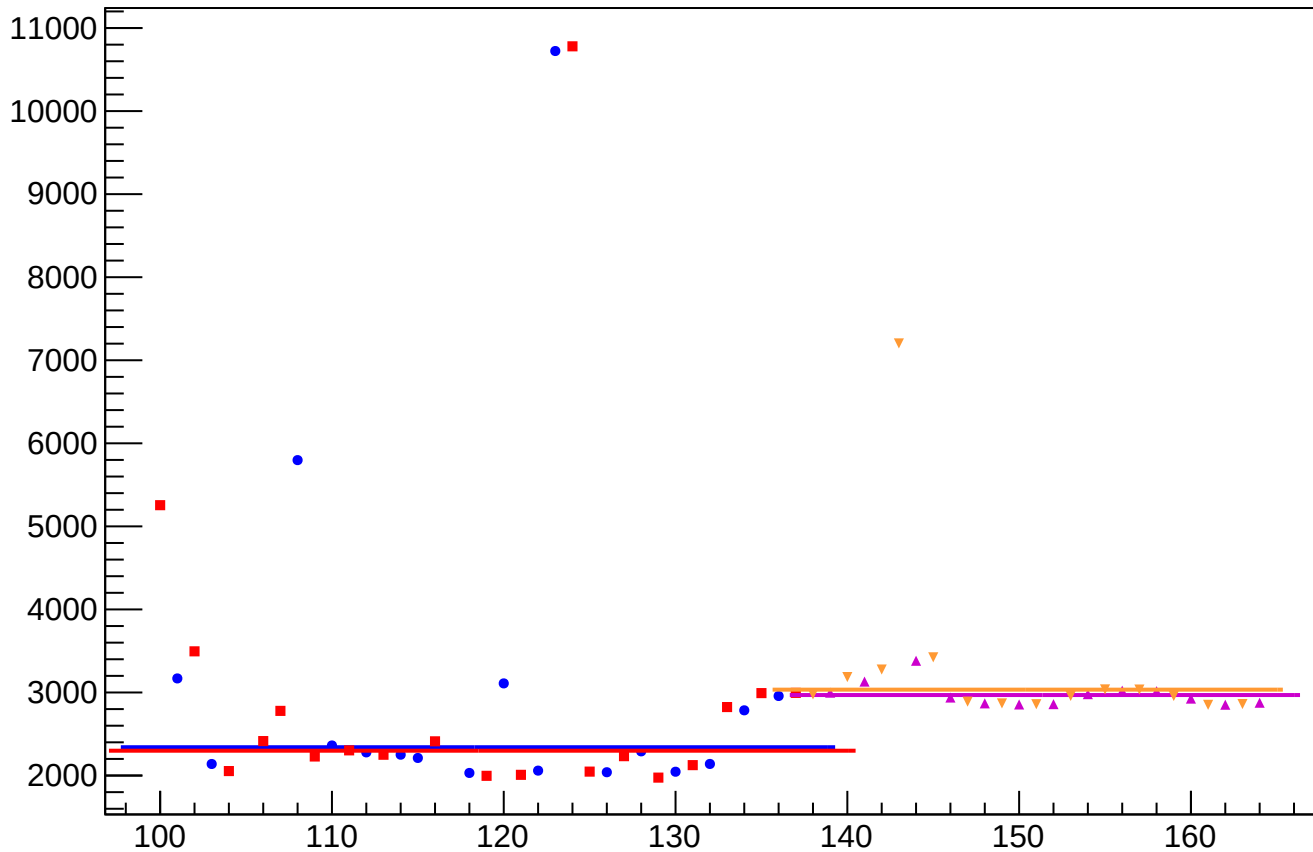
Right: 1524.842 $\pm$ 640.837  $\chi^2$ /NDF: 26.4/35

In: 2187.482 $\pm$ 653.630  $\chi^2$ /NDF:18.6/29

Out: 574.627 $\pm$ 646.696  $\chi^2$ /NDF:54.4/32

All: 1372.454 $\pm$ 459.715  $\chi^2$ /NDF: 76.1/62

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2340.877+/-0.655  $\chi^2/\text{NDF}$ : 600471.2/16

Left Out: 3034.113+/-0.668  $\chi^2/\text{NDF}$ : 503245.9/13

Right Out: 2298.949+/-0.627  $\chi^2/\text{NDF}$ : 566102.7/18

Left In: 2969.254+/-0.652  $\chi^2/\text{NDF}$ : 42505.4/12

Left: 3000.894+/-0.467  $\chi^2/\text{NDF}$ : 550579.3/26

Right: 2318.982+/-0.453  $\chi^2/\text{NDF}$ : 1168711.7/35

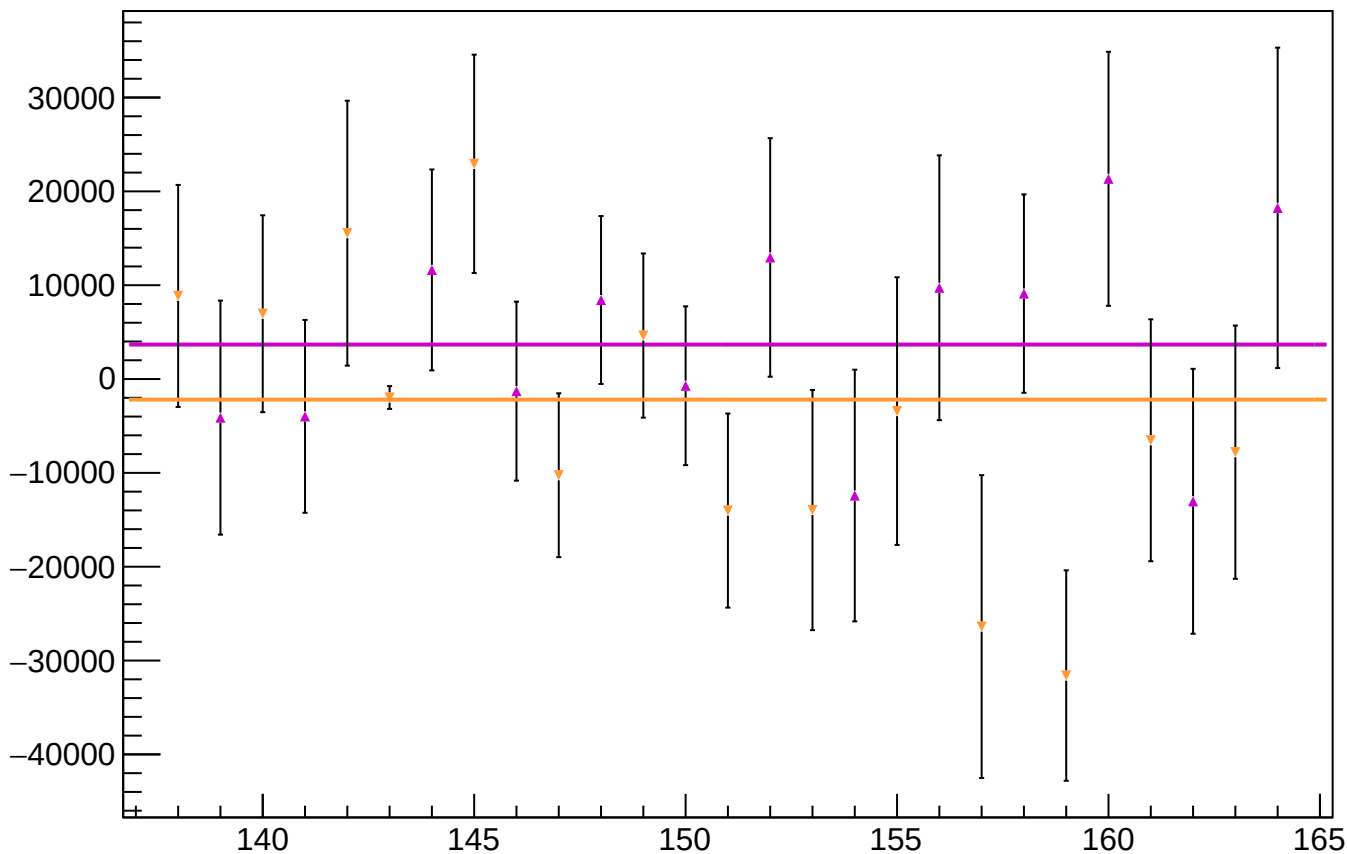
In: 2656.671+/-0.462  $\chi^2/\text{NDF}$ : 1105076.2/29

Out: 2643.157+/-0.457  $\chi^2/\text{NDF}$ : 1713404.5/32

All: 2649.839+/-0.325  $\chi^2/\text{NDF}$ : 2818912.9/62



asym\_atl2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -2191.297+/-1134.432  $\chi^2/\text{NDF}$ :20.9/13

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

Left In: 3673.229+/-3135.622  $\chi^2/\text{NDF}$ :8.6/12

Left: -1512.529+/-1066.764  $\chi^2/\text{NDF}$ : 32.6/26

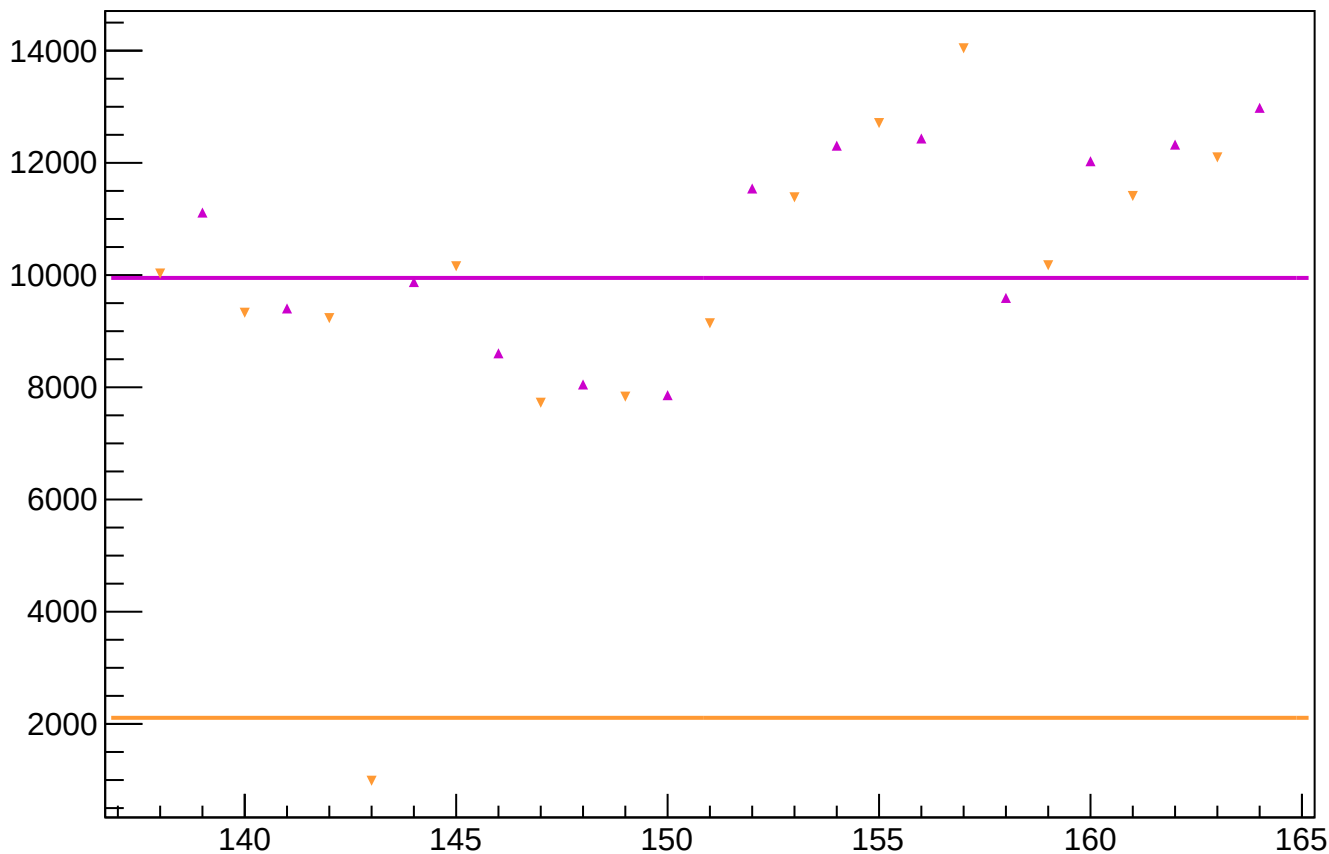
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3673.229+/-3135.622  $\chi^2/\text{NDF}$ :8.6/12

Out: -2191.297+/-1134.432  $\chi^2/\text{NDF}$ :20.9/13

All: -1512.529+/-1066.764  $\chi^2/\text{NDF}$ : 32.6/26

# asym\_atl2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2108.820+/-0.802  $\chi^2/\text{NDF}$ :14045851.7/13

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

Left In: 9949.344+/-2.217  $\chi^2/\text{NDF}$ :599477.7/12

Left: 3016.293+/-0.754  $\chi^2/\text{NDF}$ : 25702704.4/26

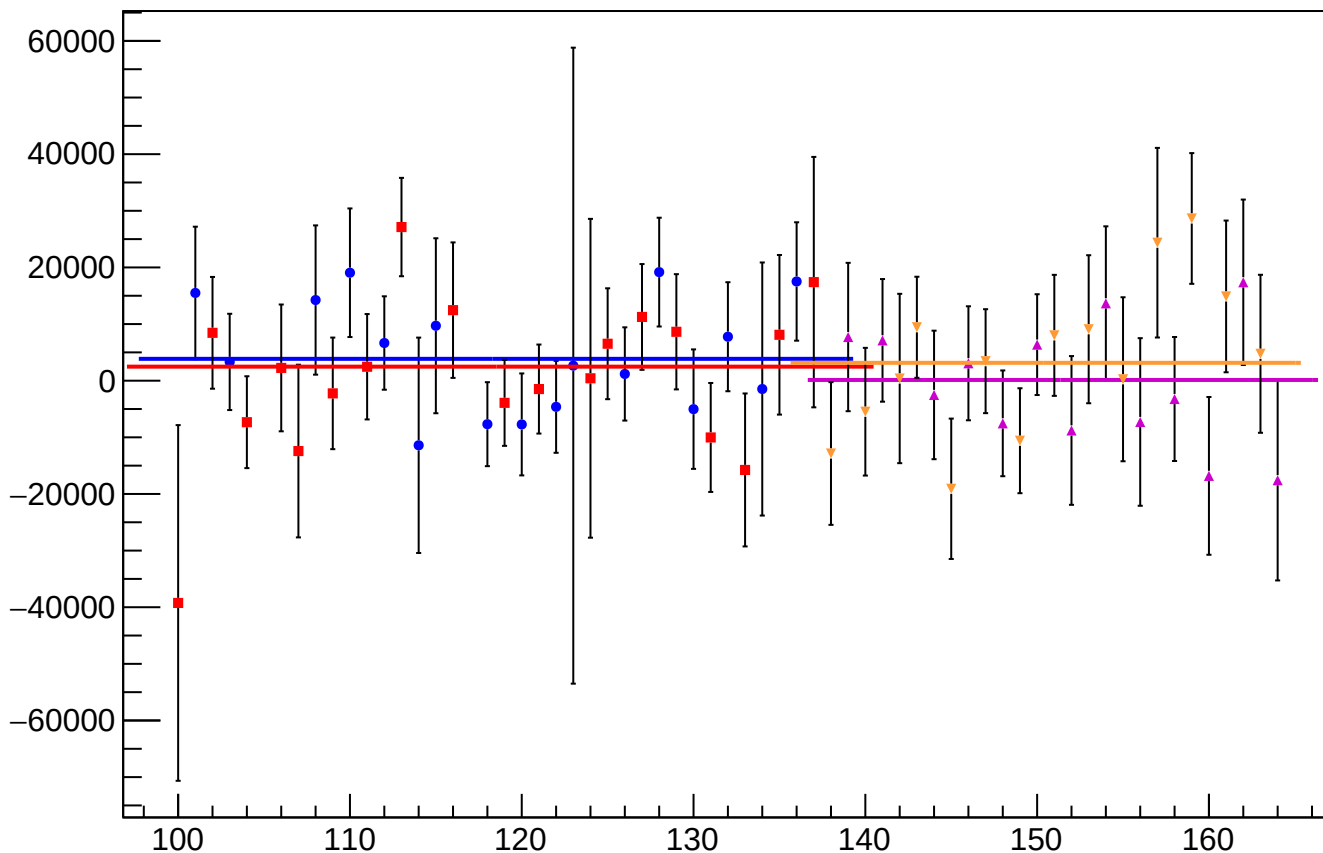
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9949.344+/-2.217  $\chi^2/\text{NDF}$ :599477.7/12

Out: 2108.820+/-0.802  $\chi^2/\text{NDF}$ :14045851.7/13

All: 3016.293+/-0.754  $\chi^2/\text{NDF}$ : 25702704.4/26

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3859.866 $\pm$ 2508.782  $\chi^2$ /NDF: 14.8/16

Left Out: 3157.873 $\pm$ 3125.053  $\chi^2$ /NDF:15.9/13

Right Out: 2482.925 $\pm$ 2421.310  $\chi^2$ /NDF: 20.0/18

Left In: 129.574 $\pm$ 3274.978  $\chi^2$ /NDF:7.7/12

Left: 1714.625 $\pm$ 2260.891  $\chi^2$ /NDF: 24.0/26

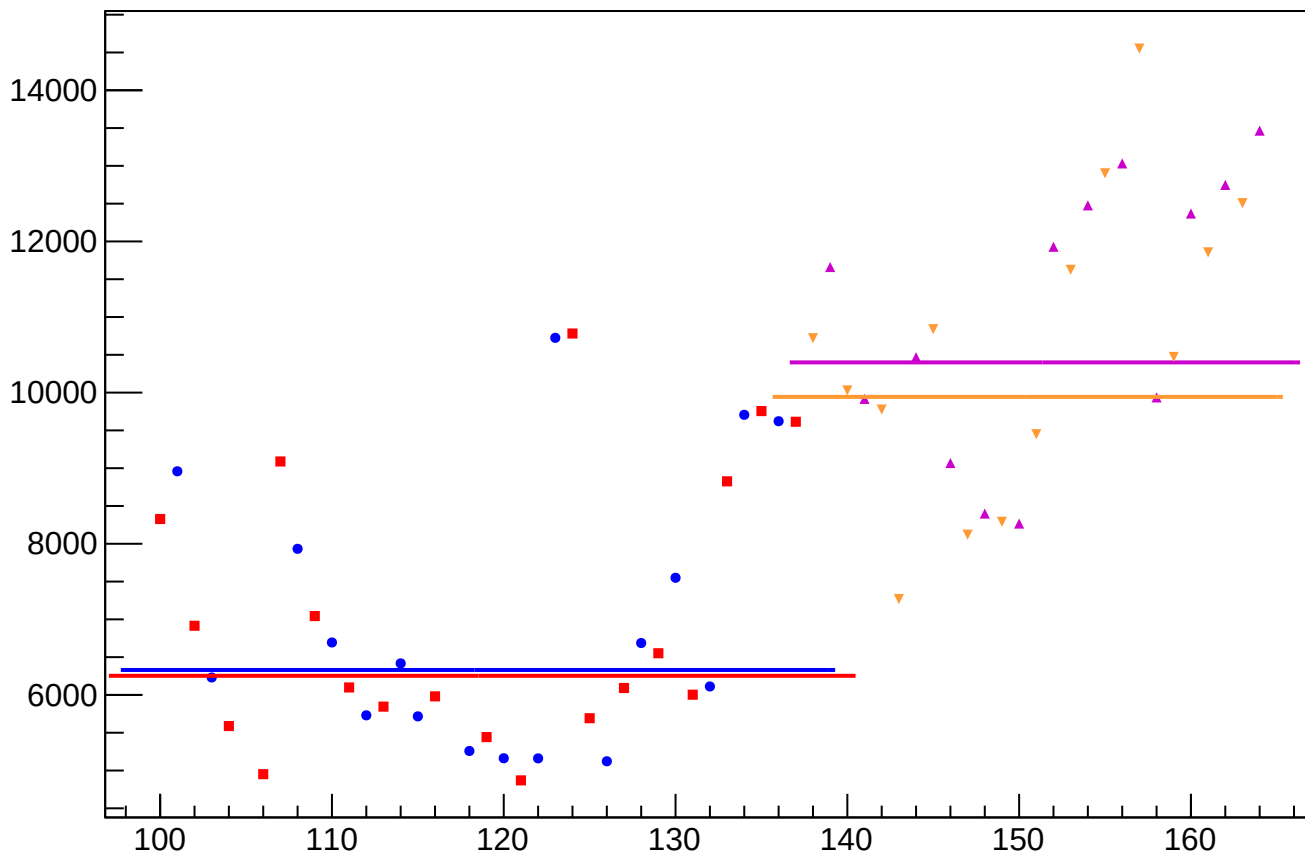
Right: 3146.972 $\pm$ 1742.228  $\chi^2$ /NDF: 35.0/35

In: 2480.363 $\pm$ 1991.583  $\chi^2$ /NDF:23.3/29

Out: 2736.116 $\pm$ 1914.019  $\chi^2$ /NDF:35.9/32

All: 2613.316 $\pm$ 1380.022  $\chi^2$ /NDF: 59.3/62

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6330.291+/-1.774  $\chi^2/\text{NDF}$ : 593395.6/16

Left Out: 9943.515+/-2.210  $\chi^2/\text{NDF}$ : 725463.1/13

Right Out: 6253.330+/-1.712  $\chi^2/\text{NDF}$ : 535355.5/18

Left In: 10399.600+/-2.316  $\chi^2/\text{NDF}$ : 556528.4/12

Left: 10160.879+/-1.599  $\chi^2/\text{NDF}$ : 1302294.0/26

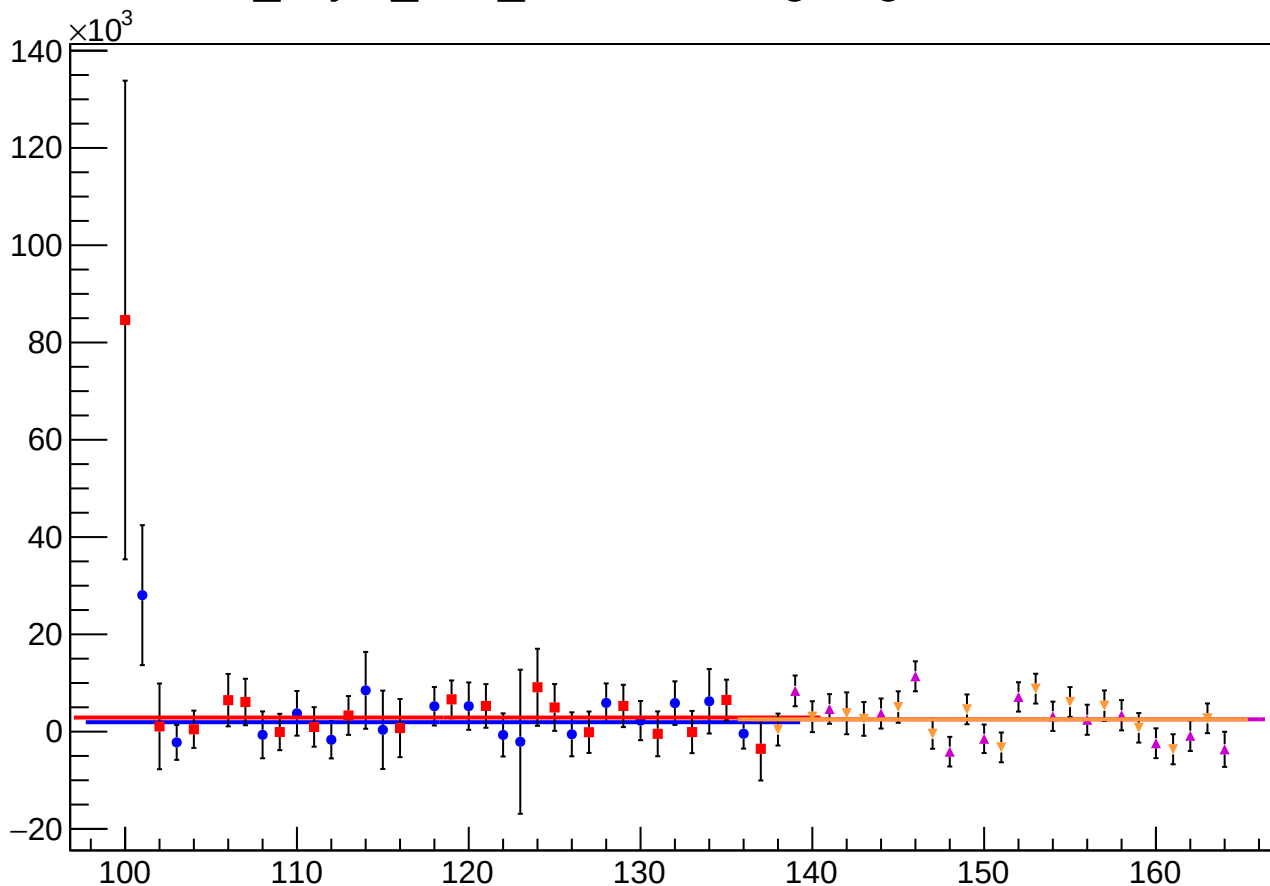
Right: 6290.444+/-1.232  $\chi^2/\text{NDF}$ : 1129725.5/35

In: 7835.158+/-1.408  $\chi^2/\text{NDF}$ : 3095851.6/29

Out: 7637.537+/-1.353  $\chi^2/\text{NDF}$ : 3003501.4/32

All: 7732.422+/-0.976  $\chi^2/\text{NDF}$ : 6109590.4/62

# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 1936.744+/-1128.266  $\chi^2/\text{NDF}$ : 11.3/16

Left Out: 2520.956+/-851.913  $\chi^2/\text{NDF}$ : 16.7/13

Right Out: 2896.594+/-1086.848  $\chi^2/\text{NDF}$ : 10.6/18

Left In: 2527.714+/-858.904  $\chi^2/\text{NDF}$ : 28.1/12

Left: 2524.308+/-604.850  $\chi^2/\text{NDF}$ : 44.8/26

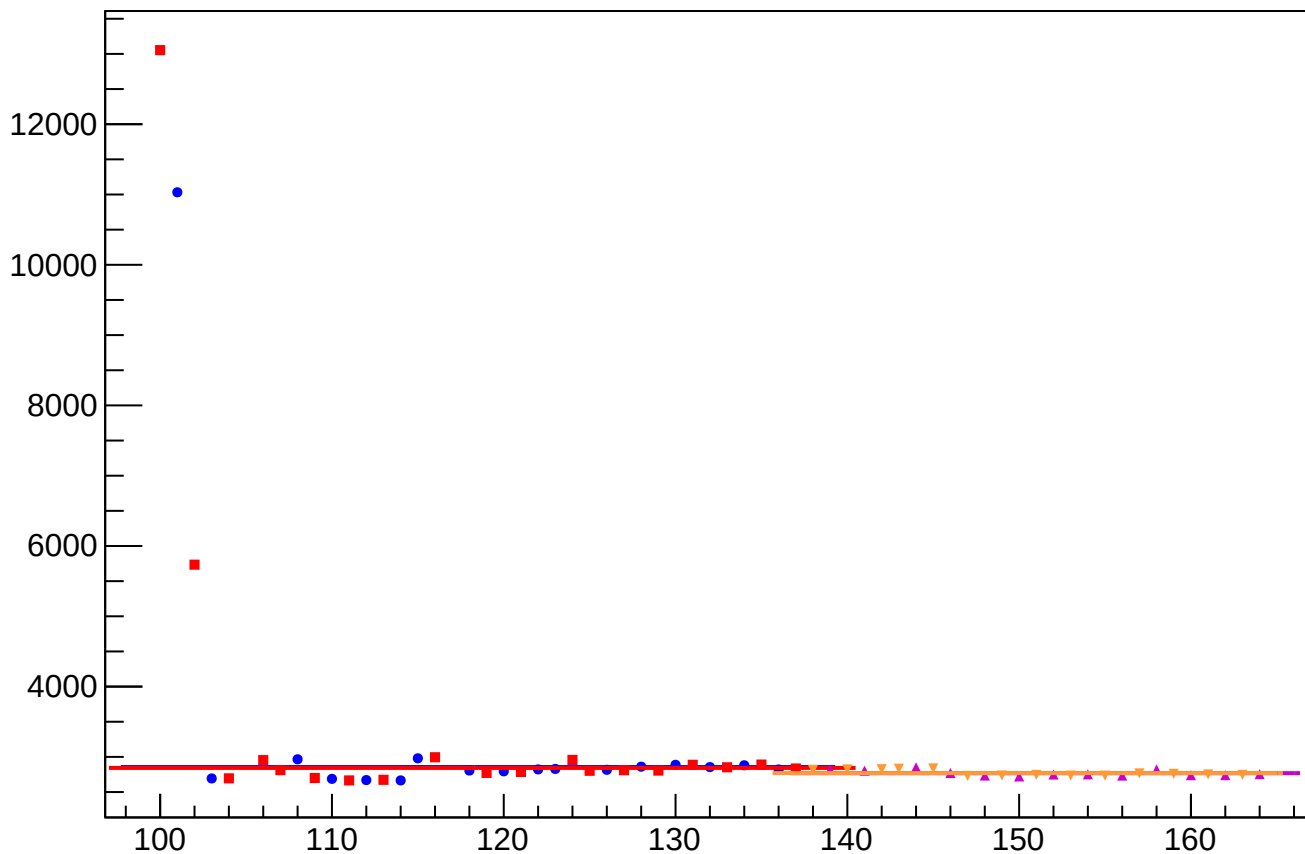
Right: 2434.610+/-782.750  $\chi^2/\text{NDF}$ : 22.3/35

In: 2310.890+/-683.412  $\chi^2/\text{NDF}$ : 39.6/29

Out: 2663.915+/-670.485  $\chi^2/\text{NDF}$ : 27.4/32

All: 2490.773+/-478.609  $\chi^2/\text{NDF}$ : 67.1/62

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2855.108+/-0.798  $\chi^2/\text{NDF}$ : 660906.0/16

Left Out: 2769.318+/-0.602  $\chi^2/\text{NDF}$ : 4280.0/13

Right Out: 2843.350+/-0.769  $\chi^2/\text{NDF}$ : 319301.9/18

Left In: 2768.808+/-0.607  $\chi^2/\text{NDF}$ : 4387.2/12

Left: 2769.065+/-0.428  $\chi^2/\text{NDF}$ : 8667.5/26

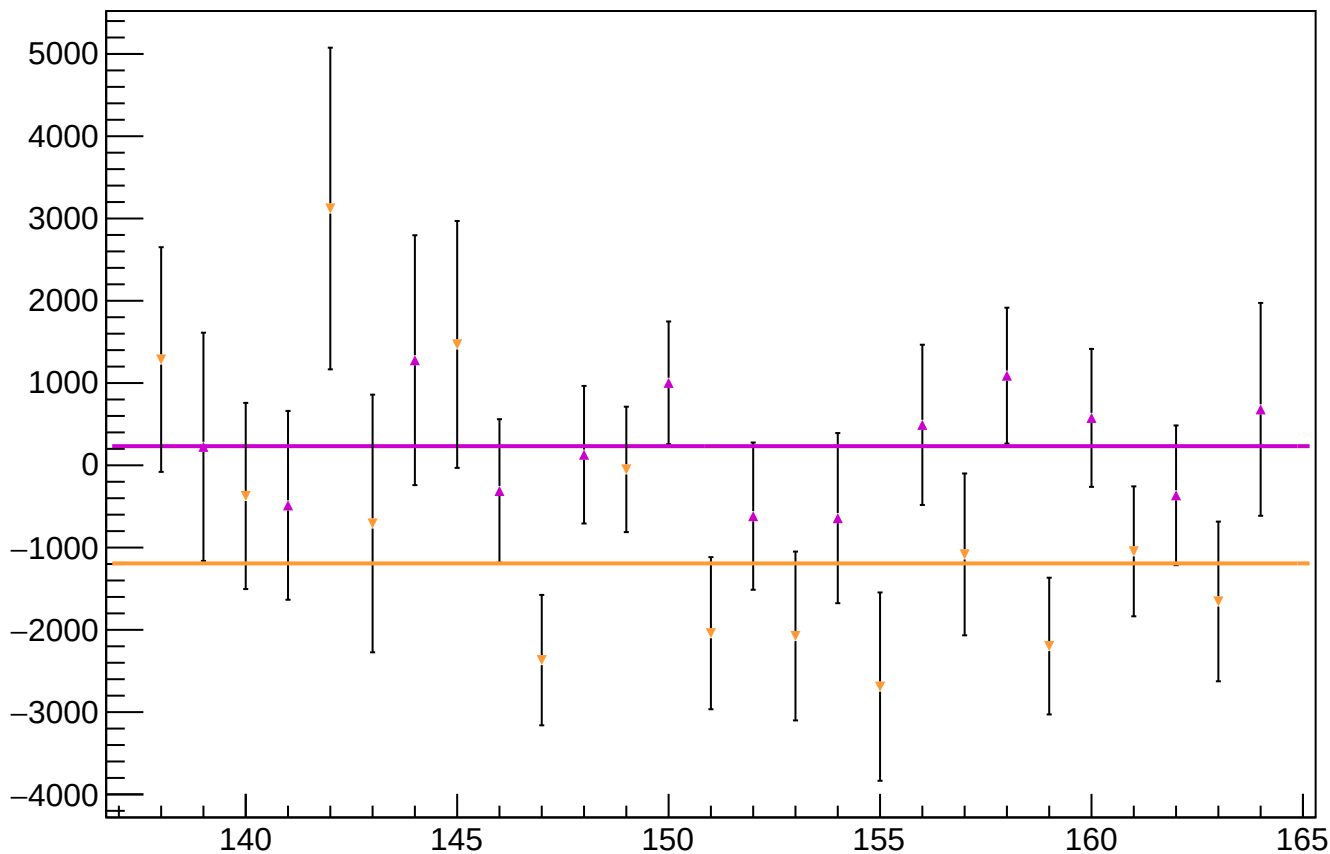
Right: 2849.009+/-0.553  $\chi^2/\text{NDF}$ : 980320.6/35

In: 2800.471+/-0.483  $\chi^2/\text{NDF}$ : 672701.3/29

Out: 2797.493+/-0.474  $\chi^2/\text{NDF}$ : 329329.9/32

All: 2798.953+/-0.338  $\chi^2/\text{NDF}$ : 1002050.6/62

# asym\_atr1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1192.301+/-269.454  $\chi^2/\text{NDF}$ :21.4/13

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

Left In: 232.681+/-263.838  $\chi^2/\text{NDF}$ :5.9/12

Left: -464.808+/-188.516  $\chi^2/\text{NDF}$ : 41.6/26

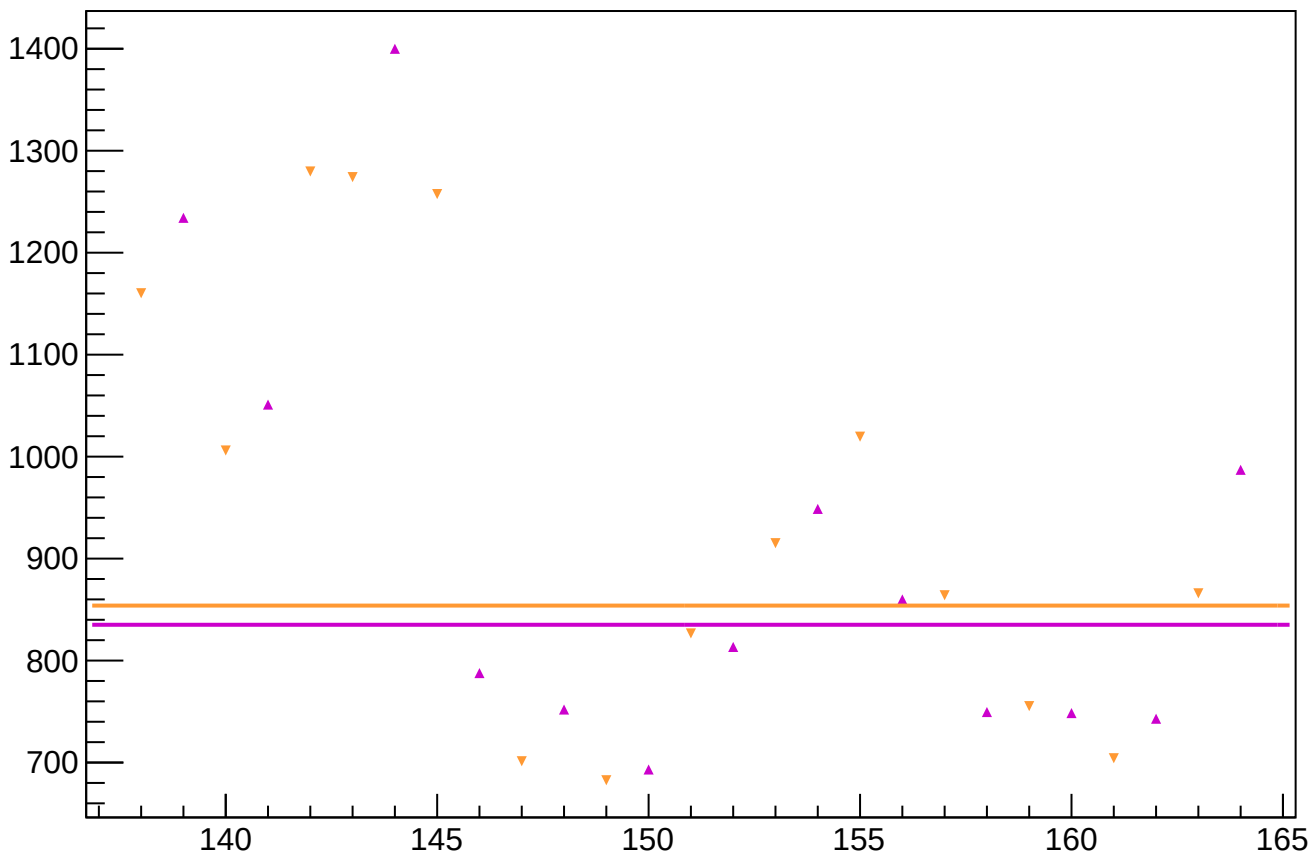
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 232.681+/-263.838  $\chi^2/\text{NDF}$ :5.9/12

Out: -1192.301+/-269.454  $\chi^2/\text{NDF}$ :21.4/13

All: -464.808+/-188.516  $\chi^2/\text{NDF}$ : 41.6/26

# asym\_atr1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 853.931+/-0.191  $\chi^2/\text{NDF}$ :846658.5/13

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

Left In: 835.108+/-0.187  $\chi^2/\text{NDF}$ :731739.3/12

Left: 844.321+/-0.133  $\chi^2/\text{NDF}$ : 1583380.5/26

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

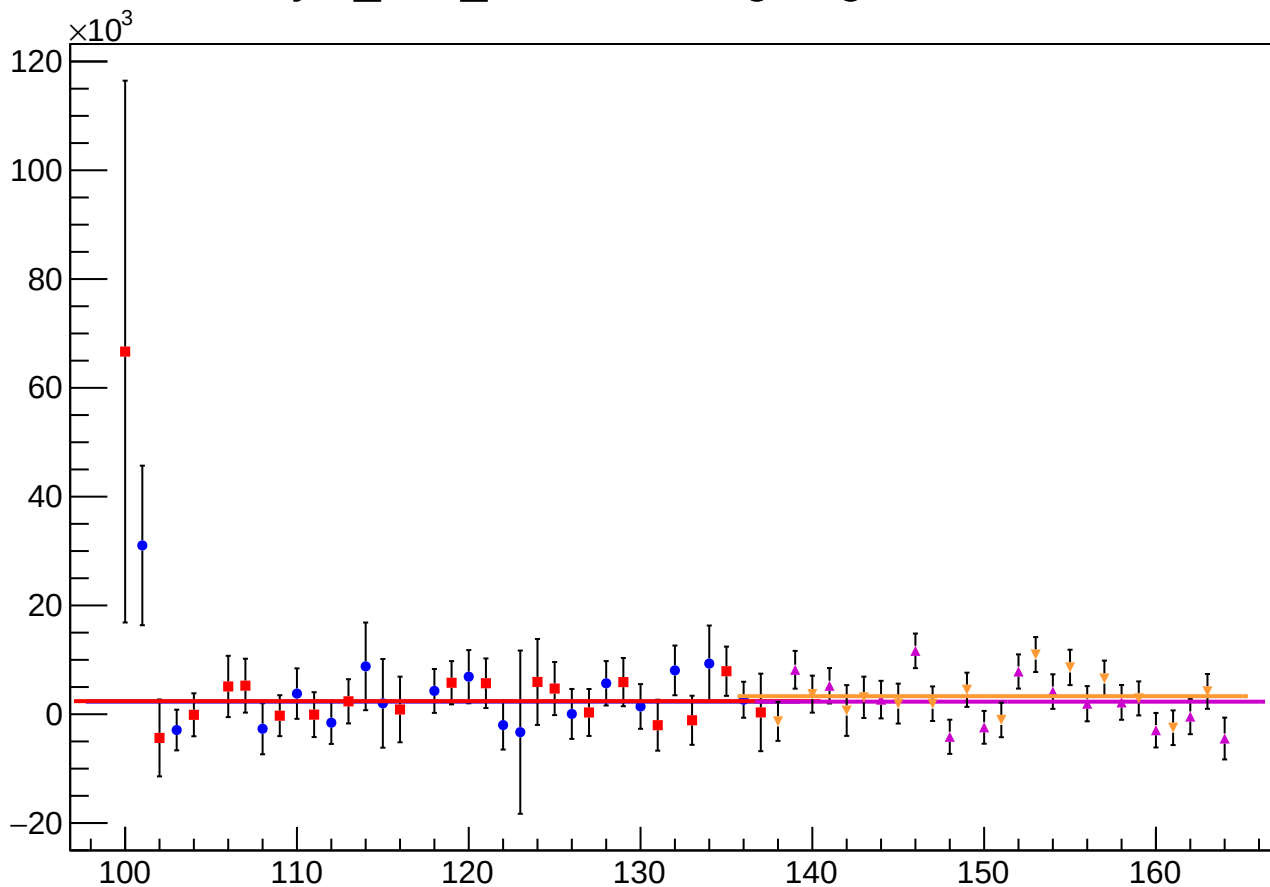
In: 835.108+/-0.187  $\chi^2/\text{NDF}$ :731739.3/12

Out: 853.931+/-0.191  $\chi^2/\text{NDF}$ :846658.5/13

All: 844.321+/-0.133  $\chi^2/\text{NDF}$ : 1583380.5/26



# asym\_atr1\_mean vs Slug, Sign Corrected



Right In:  $2330.134 \pm 1156.555$   $\chi^2/\text{NDF}$ : 14.4/16

Left Out:  $3316.928 \pm 899.931$   $\chi^2/\text{NDF}$ : 17.1/13

Right Out:  $2403.750 \pm 1110.093$   $\chi^2/\text{NDF}$ : 10.1/18

Left In:  $2309.532 \pm 902.837$   $\chi^2/\text{NDF}$ : 29.0/12

Left:  $2814.854 \pm 637.372$   $\chi^2/\text{NDF}$ : 46.7/26

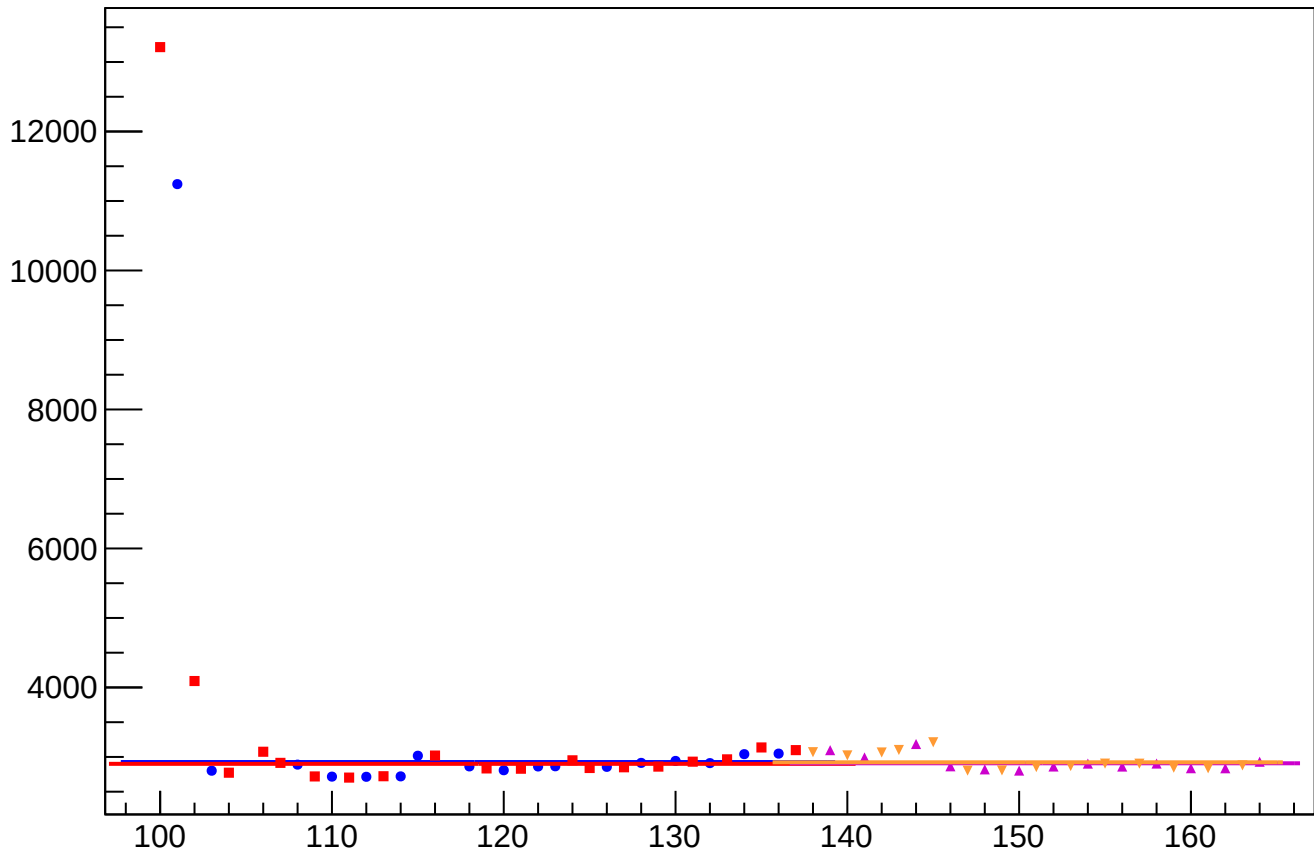
Right:  $2368.450 \pm 800.876$   $\chi^2/\text{NDF}$ : 24.5/35

In:  $2317.333 \pm 711.673$   $\chi^2/\text{NDF}$ : 43.4/29

Out:  $2954.786 \pm 699.071$   $\chi^2/\text{NDF}$ : 27.5/32

All:  $2641.753 \pm 498.714$   $\chi^2/\text{NDF}$ : 71.3/62

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2926.610 $\pm$ 0.818  $\chi^2$ /NDF: 662794.4/16

Left Out: 2922.899 $\pm$ 0.636  $\chi^2$ /NDF: 33890.5/13

Right Out: 2900.827 $\pm$ 0.785  $\chi^2$ /NDF: 169866.6/18

Left In: 2908.756 $\pm$ 0.638  $\chi^2$ /NDF: 27409.2/12

Left: 2915.850 $\pm$ 0.451  $\chi^2$ /NDF: 61545.9/26

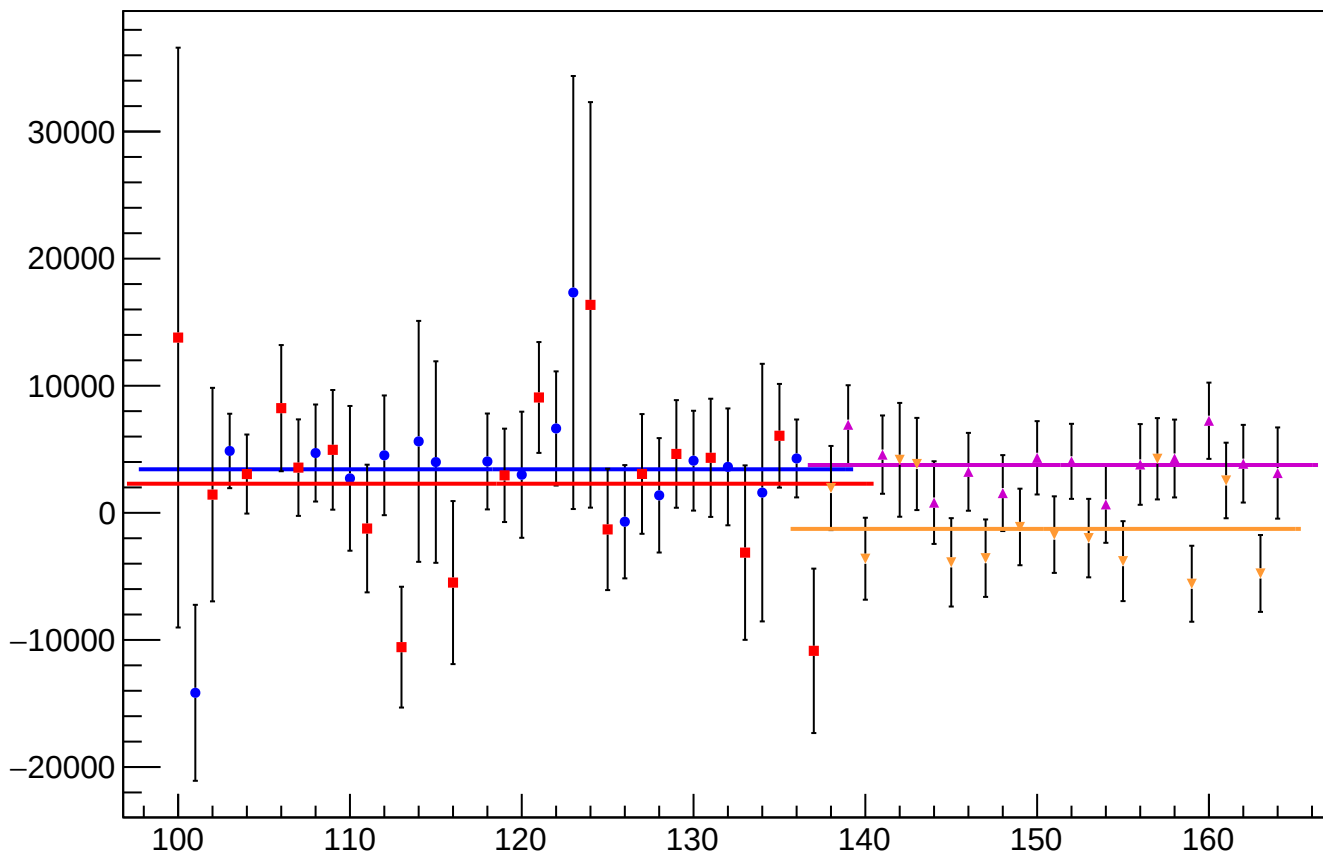
Right: 2913.190 $\pm$ 0.566  $\chi^2$ /NDF: 833178.3/35

In: 2915.516 $\pm$ 0.503  $\chi^2$ /NDF: 690499.7/29

Out: 2914.146 $\pm$ 0.494  $\chi^2$ /NDF: 204234.2/32

All: 2914.819 $\pm$ 0.353  $\chi^2$ /NDF: 894737.7/62

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3426.396 $\pm$ 1117.275  $\chi^2$ /NDF: 9.4/16

Left Out: -1263.493 $\pm$ 856.753  $\chi^2$ /NDF:14.9/13

Right Out: 2290.985 $\pm$ 1111.370  $\chi^2$ /NDF: 21.4/18

Left In: 3763.515 $\pm$ 854.982  $\chi^2$ /NDF:5.0/12

Left: 1255.212 $\pm$ 605.189  $\chi^2$ /NDF: 37.1/26

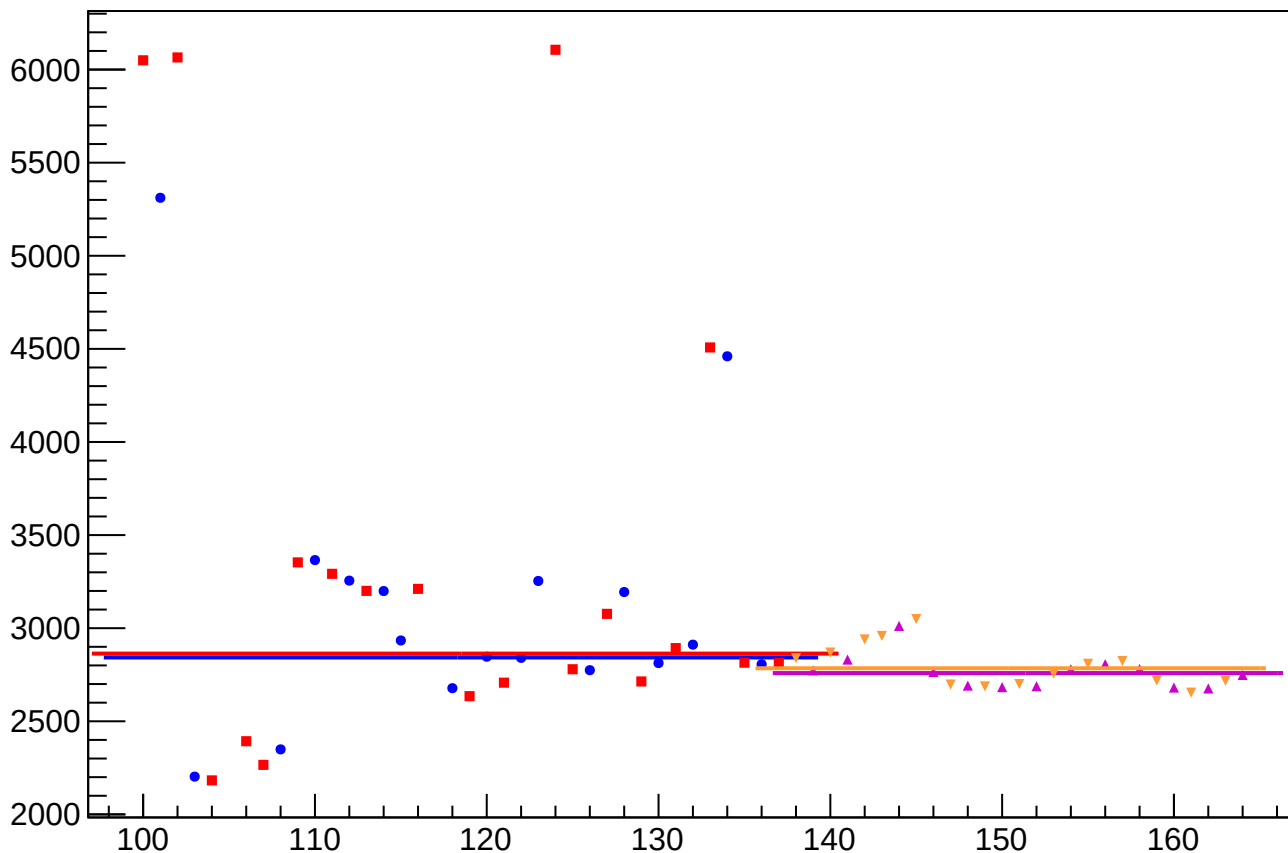
Right: 2855.682 $\pm$ 787.937  $\chi^2$ /NDF: 31.3/35

In: 3639.010 $\pm$ 678.987  $\chi^2$ /NDF:14.4/29

Out: 61.471 $\pm$ 678.536  $\chi^2$ /NDF:42.7/32

All: 1849.051 $\pm$ 479.957  $\chi^2$ /NDF: 71.0/62

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2842.874+/-0.790  $\chi^2/\text{NDF}$ : 488114.5/16

Left Out: 2784.864+/-0.606  $\chi^2/\text{NDF}$ : 32149.2/13

Right Out: 2863.592+/-0.786  $\chi^2/\text{NDF}$ : 760763.4/18

Left In: 2759.070+/-0.605  $\chi^2/\text{NDF}$ : 20305.3/12

Left: 2771.941+/-0.428  $\chi^2/\text{NDF}$ : 53362.8/26

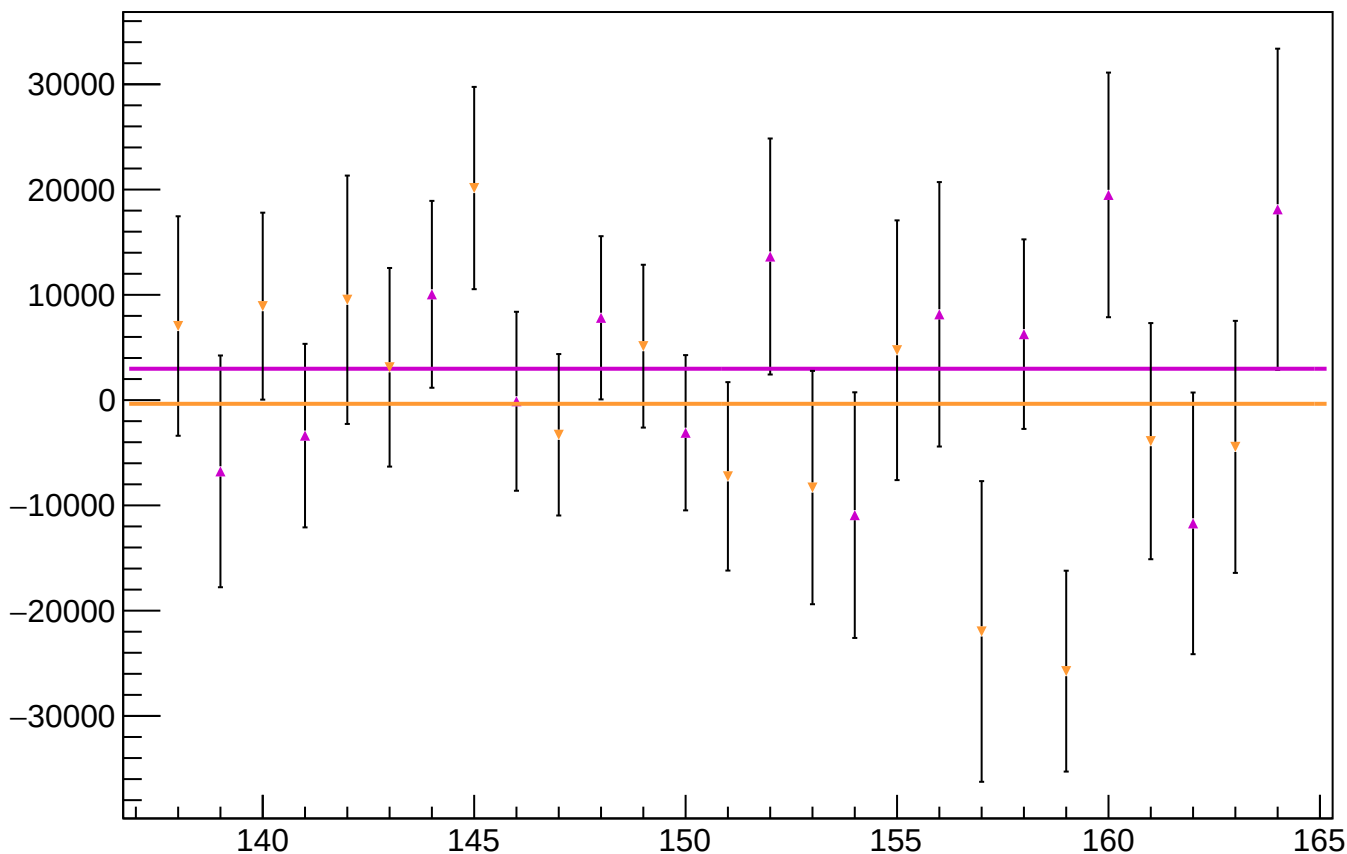
Right: 2853.292+/-0.557  $\chi^2/\text{NDF}$ : 1249223.7/35

In: 2790.021+/-0.480  $\chi^2/\text{NDF}$ : 515516.3/29

Out: 2814.226+/-0.480  $\chi^2/\text{NDF}$ : 799210.8/32

All: 2802.133+/-0.339  $\chi^2/\text{NDF}$ : 1315999.0/62

# asym\_atr2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -351.246+/-2645.482  $\chi^2/\text{NDF}$ :18.5/13

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

Left In: 2979.537+/-2720.239  $\chi^2/\text{NDF}$ :10.2/12

Left: 1267.749+/-1896.516  $\chi^2/\text{NDF}$ : 29.5/26

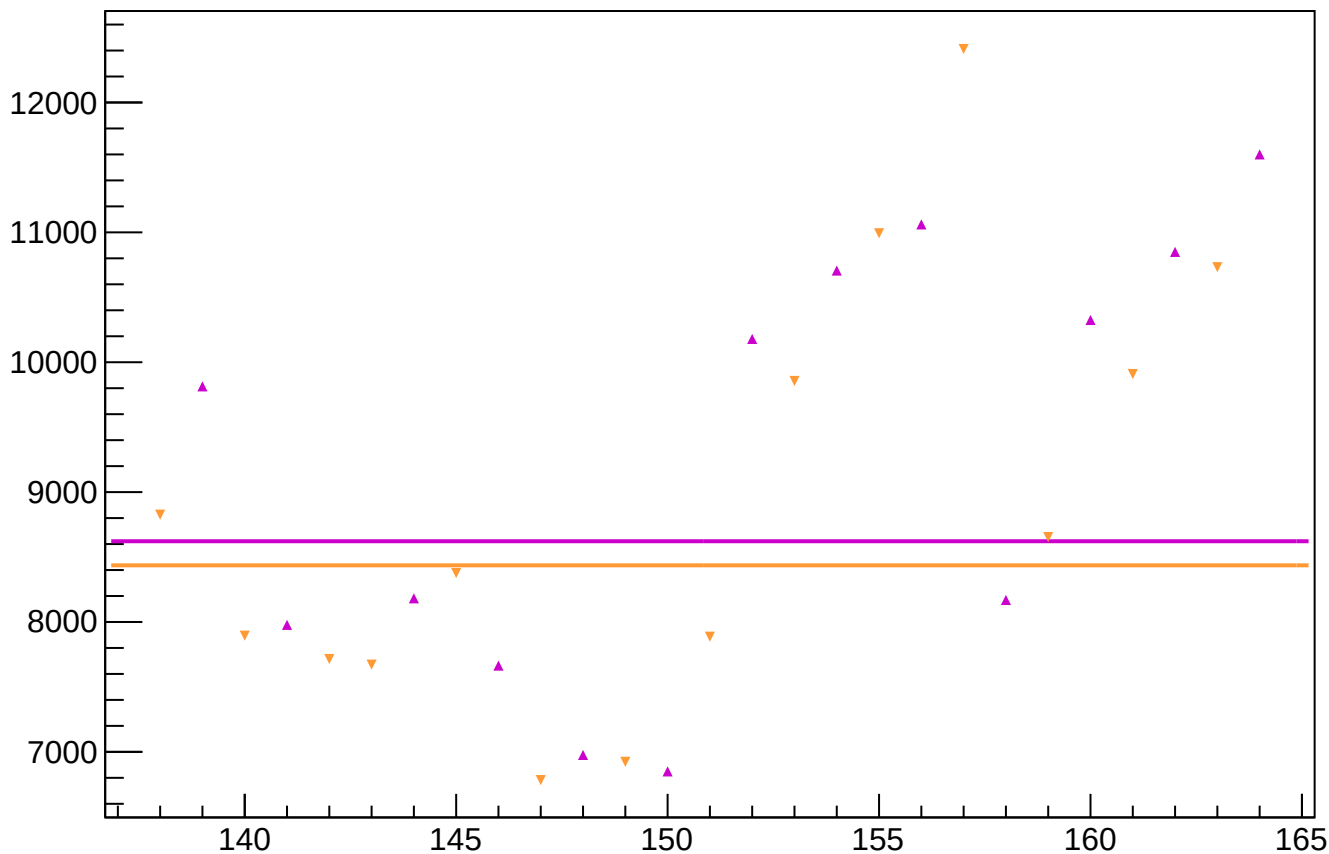
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2979.537+/-2720.239  $\chi^2/\text{NDF}$ :10.2/12

Out: -351.246+/-2645.482  $\chi^2/\text{NDF}$ :18.5/13

All: 1267.749+/-1896.516  $\chi^2/\text{NDF}$ : 29.5/26

# asym\_atr2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 8436.176+/-1.871  $\chi^2/\text{NDF}$ : 590851.6/13

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

Left In: 8621.710+/-1.923  $\chi^2/\text{NDF}$ : 636712.1/12

Left: 8526.358+/-1.341  $\chi^2/\text{NDF}$ : 1232345.2/26

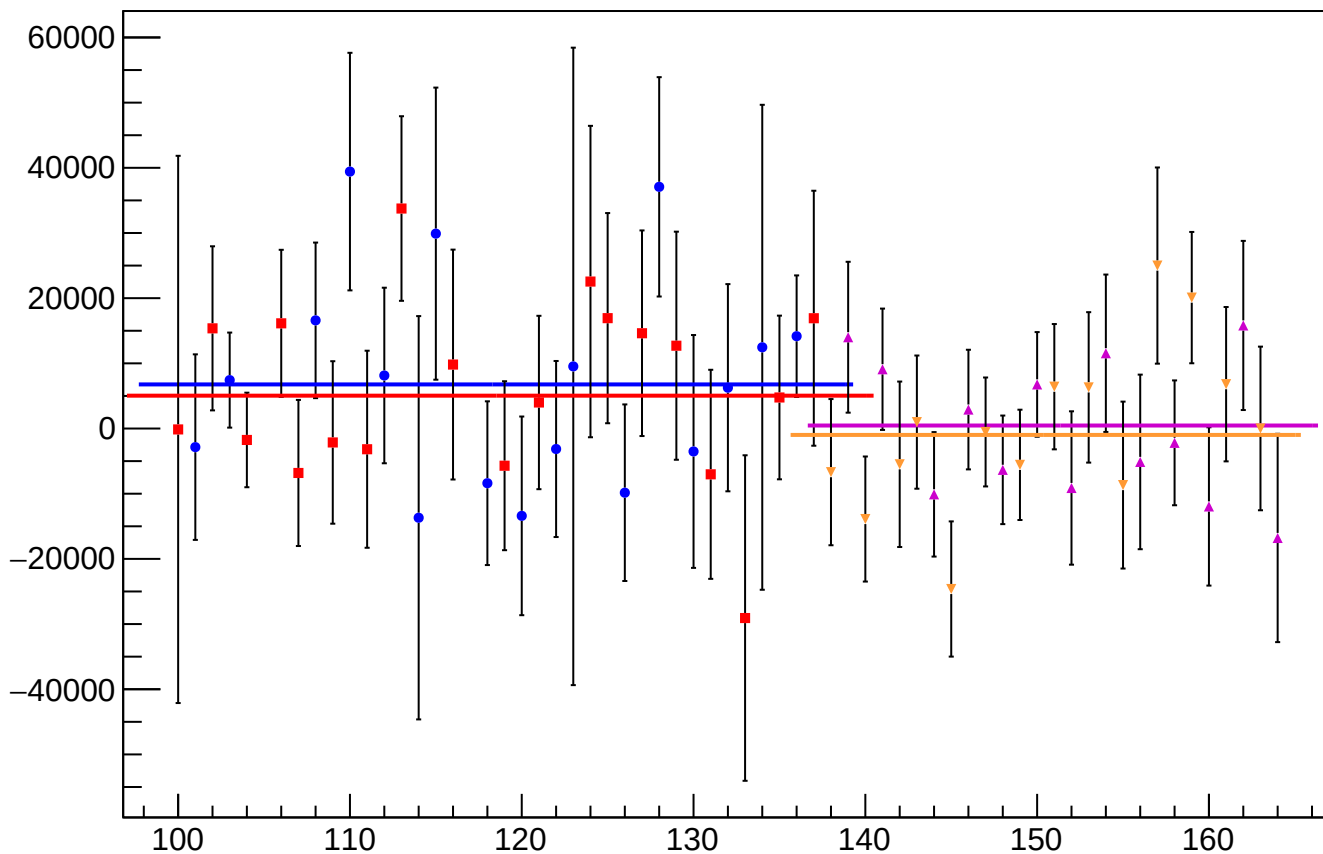
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8621.710+/-1.923  $\chi^2/\text{NDF}$ : 636712.1/12

Out: 8436.176+/-1.871  $\chi^2/\text{NDF}$ : 590851.6/13

All: 8526.358+/-1.341  $\chi^2/\text{NDF}$ : 1232345.2/26

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6767.402 $\pm$ 3387.139  $\chi^2$ /NDF: 15.3/16

Left Out: -981.495 $\pm$ 2835.676  $\chi^2$ /NDF:16.9/13

Right Out: 5041.440 $\pm$ 3167.616  $\chi^2$ /NDF: 13.6/18

Left In: 461.928 $\pm$ 2899.174  $\chi^2$ /NDF:10.2/12

Left: -275.764 $\pm$ 2027.203  $\chi^2$ /NDF: 27.2/26

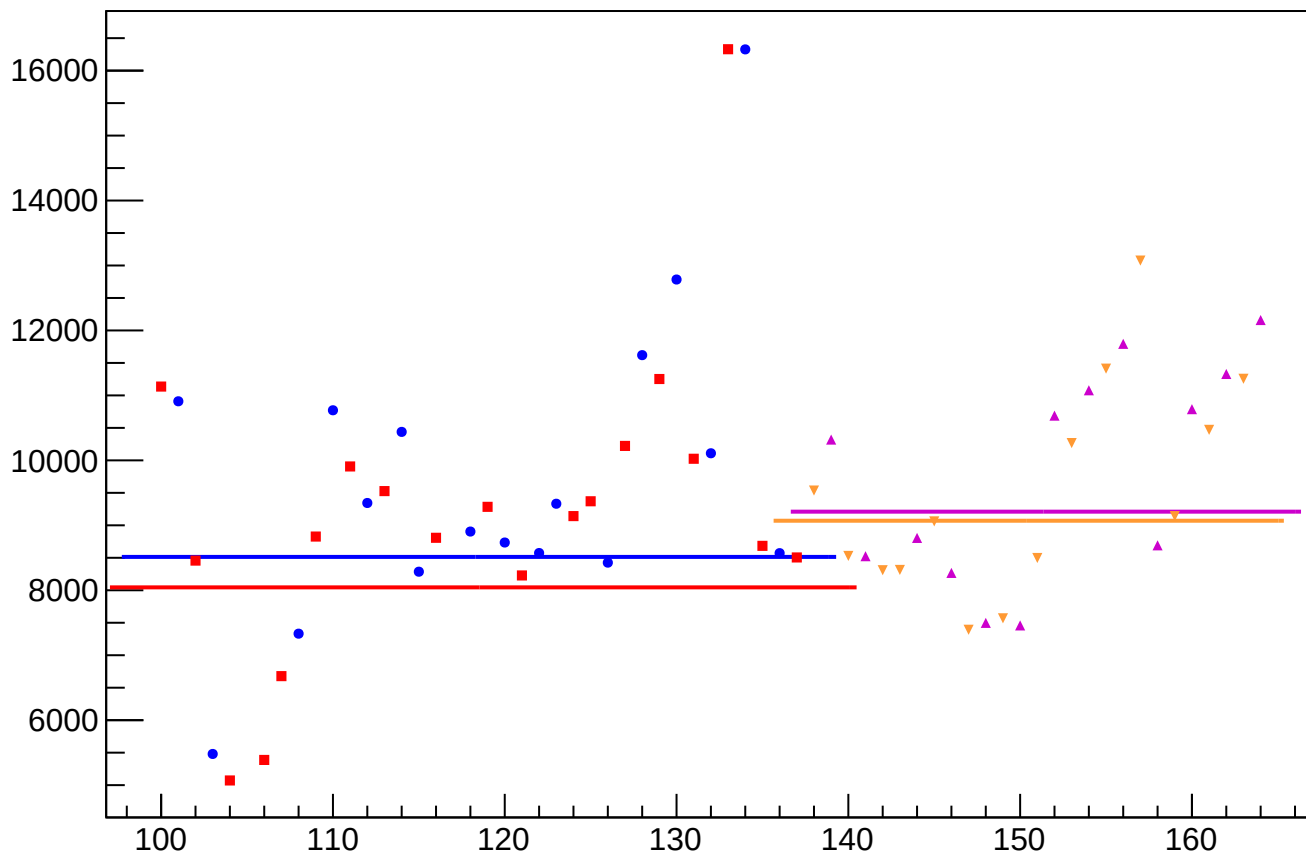
Right: 5846.682 $\pm$ 2313.559  $\chi^2$ /NDF: 29.1/35

In: 3128.144 $\pm$ 2202.530  $\chi^2$ /NDF:27.5/29

Out: 1697.962 $\pm$ 2112.768  $\chi^2$ /NDF:32.5/32

All: 2383.316 $\pm$ 1524.698  $\chi^2$ /NDF: 60.2/62

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8513.665+/-2.395  $\chi^2/\text{NDF}$ : 762614.5/16

Left Out: 9070.595+/-2.005  $\chi^2/\text{NDF}$ : 497509.2/13

Right Out: 8044.739+/-2.240  $\chi^2/\text{NDF}$ : 952310.5/18

Left In: 9210.210+/-2.050  $\chi^2/\text{NDF}$ : 548690.0/12

Left: 9138.857+/-1.433  $\chi^2/\text{NDF}$ : 1048569.6/26

Right: 8263.507+/-1.636  $\chi^2/\text{NDF}$ : 1735374.5/35

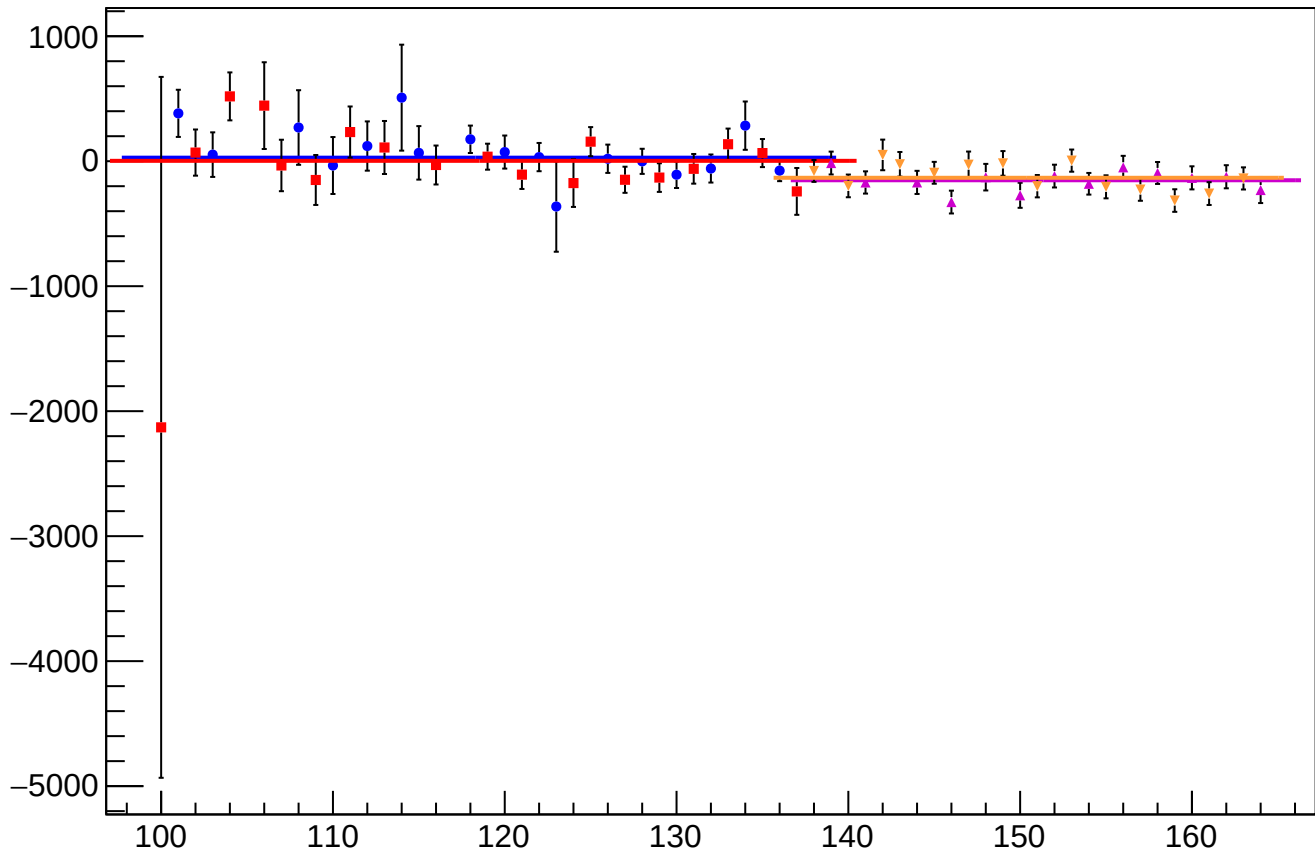
In: 8915.682+/-1.557  $\chi^2/\text{NDF}$ : 1360119.8/29

Out: 8614.198+/-1.494  $\chi^2/\text{NDF}$ : 1566271.2/32

All: 8758.669+/-1.078  $\chi^2/\text{NDF}$ : 2945906.8/62



# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In:  $28.303 \pm 33.679$   $\chi^2/\text{NDF}$ : 14.5/16

Left Out:  $-132.711 \pm 24.909$   $\chi^2/\text{NDF}$ : 17.6/13

Right Out:  $2.963 \pm 33.691$   $\chi^2/\text{NDF}$ : 22.3/18

Left In:  $-152.488 \pm 25.834$   $\chi^2/\text{NDF}$ : 10.1/12

Left:  $-142.239 \pm 17.931$   $\chi^2/\text{NDF}$ : 28.0/26

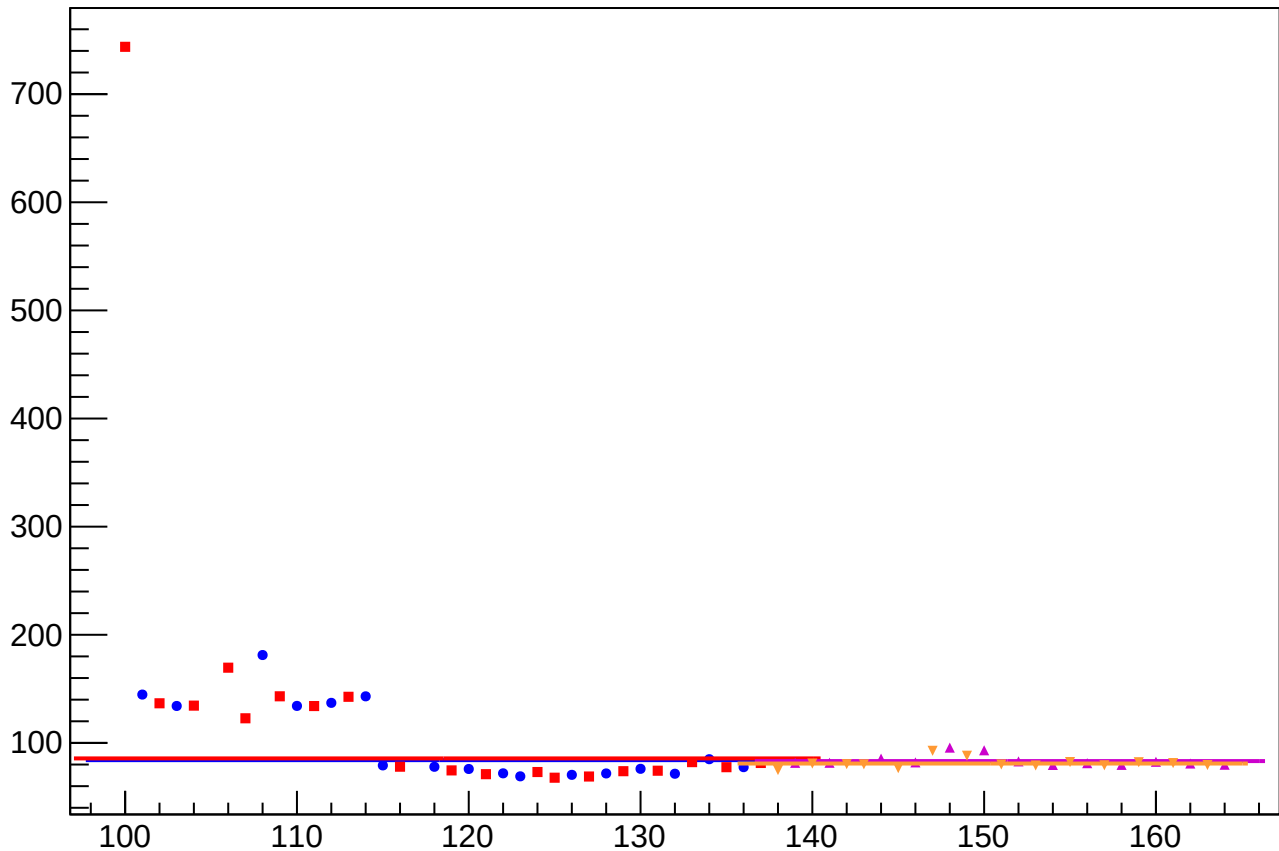
Right:  $15.637 \pm 23.819$   $\chi^2/\text{NDF}$ : 37.0/35

In:  $-85.517 \pm 20.498$   $\chi^2/\text{NDF}$ : 42.8/29

Out:  $-84.760 \pm 20.029$   $\chi^2/\text{NDF}$ : 50.3/32

All:  $-85.130 \pm 14.326$   $\chi^2/\text{NDF}$ : 93.1/62

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 84.067 $\pm$ 0.024  $\chi^2$ /NDF: 1005835.5/16

Left Out: 80.927 $\pm$ 0.018  $\chi^2$ /NDF: 53246.7/13

Right Out: 85.667 $\pm$ 0.024  $\chi^2$ /NDF: 1215221.9/18

Left In: 83.194 $\pm$ 0.018  $\chi^2$ /NDF: 60924.9/12

Left: 82.019 $\pm$ 0.013  $\chi^2$ /NDF: 122148.2/26

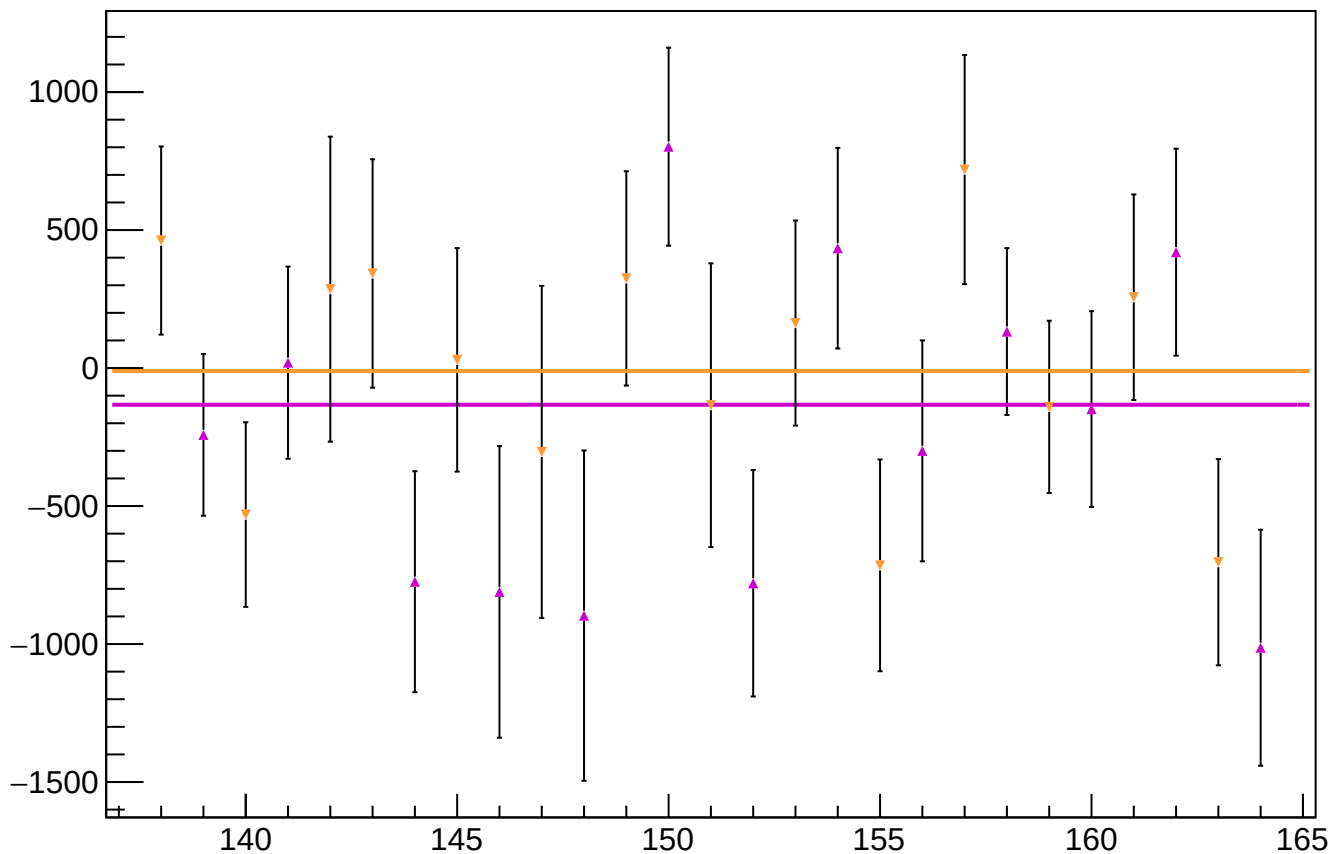
Right: 84.866 $\pm$ 0.017  $\chi^2$ /NDF: 2223312.8/35

In: 83.517 $\pm$ 0.014  $\chi^2$ /NDF: 1067606.7/29

Out: 82.602 $\pm$ 0.014  $\chi^2$ /NDF: 1294056.5/32

All: 83.049 $\pm$ 0.010  $\chi^2$ /NDF: 2363701.2/62

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -10.894+/-105.160  $\chi^2/\text{NDF}$ :17.2/13

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

Left In: -132.990+/-104.541  $\chi^2/\text{NDF}$ :25.3/12

Left: -72.302+/-74.139  $\chi^2/\text{NDF}$ : 43.1/26

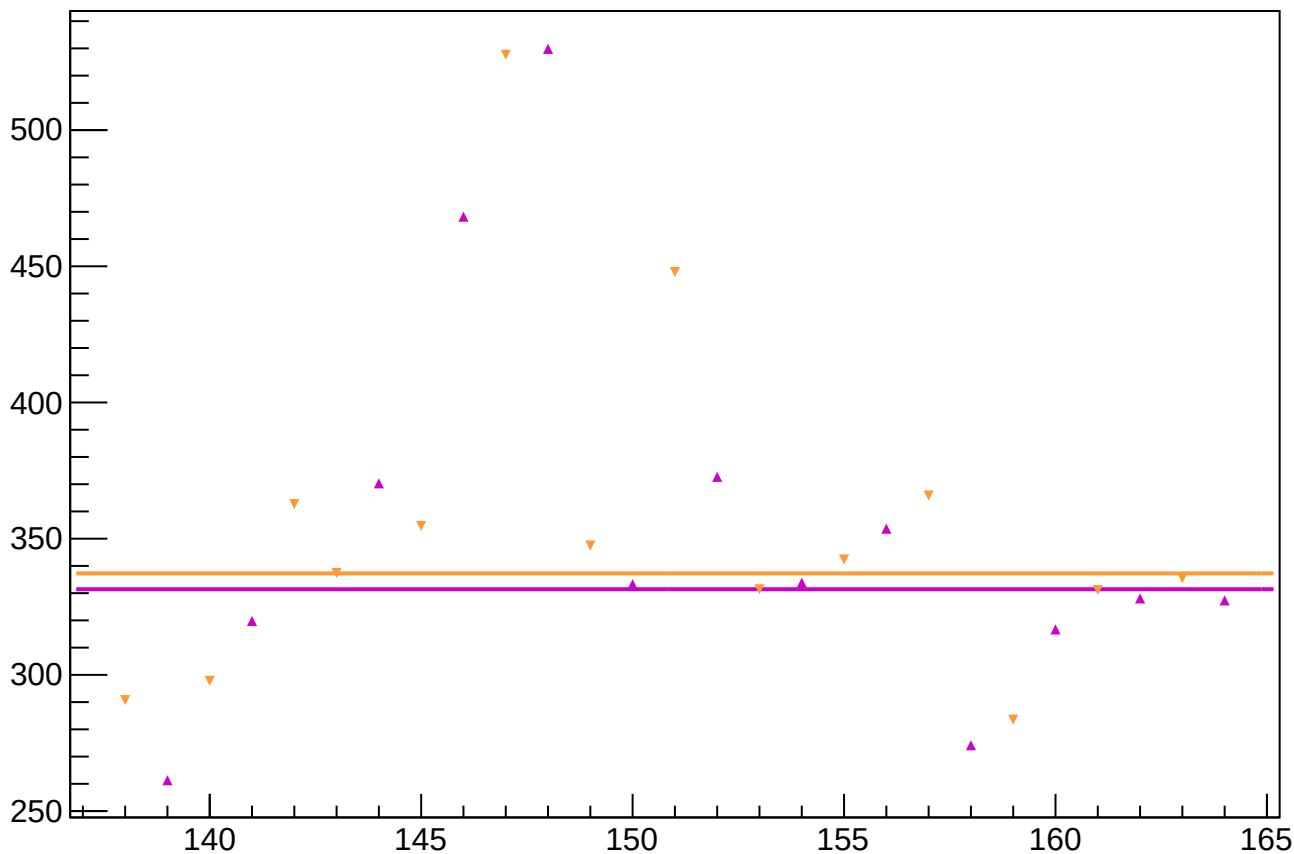
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -132.990+/-104.541  $\chi^2/\text{NDF}$ :25.3/12

Out: -10.894+/-105.160  $\chi^2/\text{NDF}$ :17.2/13

All: -72.302+/-74.139  $\chi^2/\text{NDF}$ : 43.1/26

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 337.254+/-0.074  $\chi^2$ /NDF:437385.0/13

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

Left In: 331.445+/-0.074  $\chi^2$ /NDF:591598.9/12

Left: 334.332+/-0.052  $\chi^2$ /NDF: 1032052.9/26

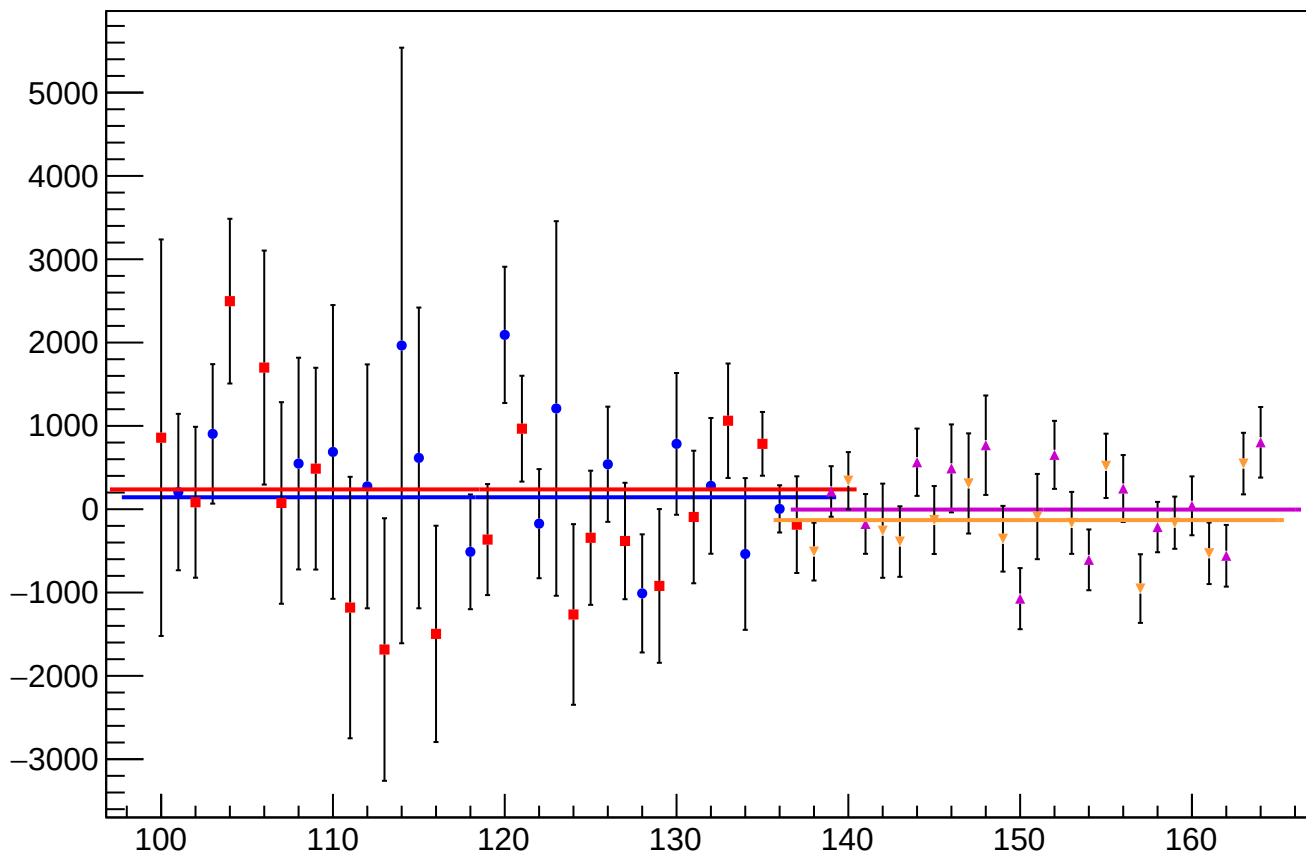
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 331.445+/-0.074  $\chi^2$ /NDF:591598.9/12

Out: 337.254+/-0.074  $\chi^2$ /NDF:437385.0/13

All: 334.332+/-0.052  $\chi^2$ /NDF: 1032052.9/26

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 143.486 $\pm$ 179.237  $\chi^2$ /NDF: 12.8/16

Left Out: -130.717 $\pm$ 105.869  $\chi^2$ /NDF:15.7/13

Right Out: 237.821 $\pm$ 183.995  $\chi^2$ /NDF: 21.7/18

Left In: -4.353 $\pm$ 105.326  $\chi^2$ /NDF:25.9/12

Left: -67.210 $\pm$ 74.668  $\chi^2$ /NDF: 42.3/26

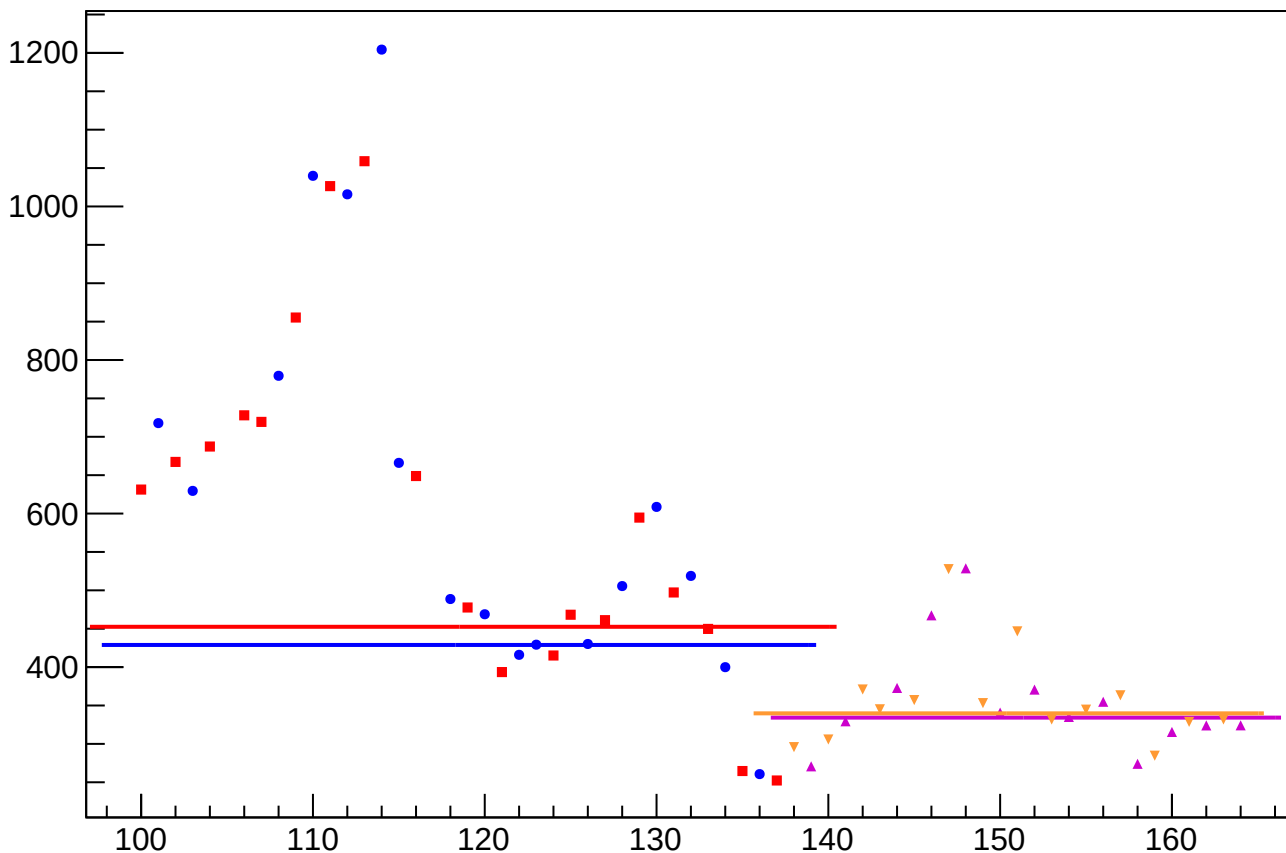
Right: 189.418 $\pm$ 128.389  $\chi^2$ /NDF: 34.6/35

In: 33.594 $\pm$ 90.808  $\chi^2$ /NDF:39.2/29

Out: -39.052 $\pm$ 91.763  $\chi^2$ /NDF:40.4/32

All: -2.349 $\pm$ 64.546  $\chi^2$ /NDF: 79.9/62

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.856+/-0.127  $\chi^2/\text{NDF}$ : 2012329.6/16

Left Out: 339.770+/-0.075  $\chi^2/\text{NDF}$ : 419092.9/13

Right Out: 452.517+/-0.130  $\chi^2/\text{NDF}$ : 2039238.5/18

Left In: 334.209+/-0.074  $\chi^2/\text{NDF}$ : 555486.9/12

Left: 336.975+/-0.053  $\chi^2/\text{NDF}$ : 977353.6/26

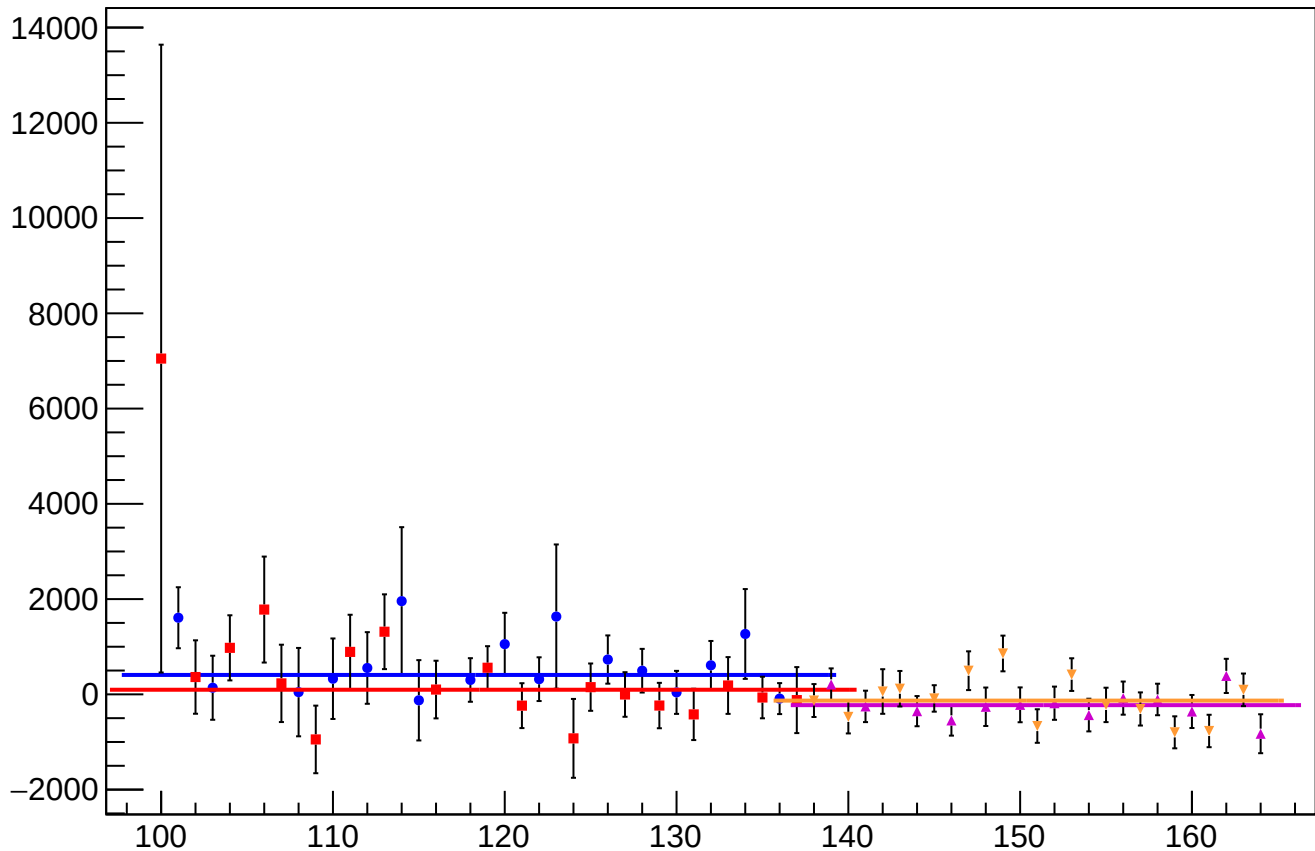
Right: 440.377+/-0.091  $\chi^2/\text{NDF}$ : 4068538.6/35

In: 358.503+/-0.064  $\chi^2/\text{NDF}$ : 2982354.7/29

Out: 367.813+/-0.065  $\chi^2/\text{NDF}$ : 3022521.6/32

All: 363.109+/-0.046  $\chi^2/\text{NDF}$ : 6015279.3/62

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 407.640 $\pm$ 139.972  $\chi^2/\text{NDF}$ : 11.4/16

Left Out: -131.361 $\pm$ 94.042  $\chi^2/\text{NDF}$ :24.0/13

Right Out: 96.852 $\pm$ 139.191  $\chi^2/\text{NDF}$ : 15.6/18

Left In: -226.667 $\pm$ 96.406  $\chi^2/\text{NDF}$ :8.8/12

Left: -177.831 $\pm$ 67.318  $\chi^2/\text{NDF}$ : 33.3/26

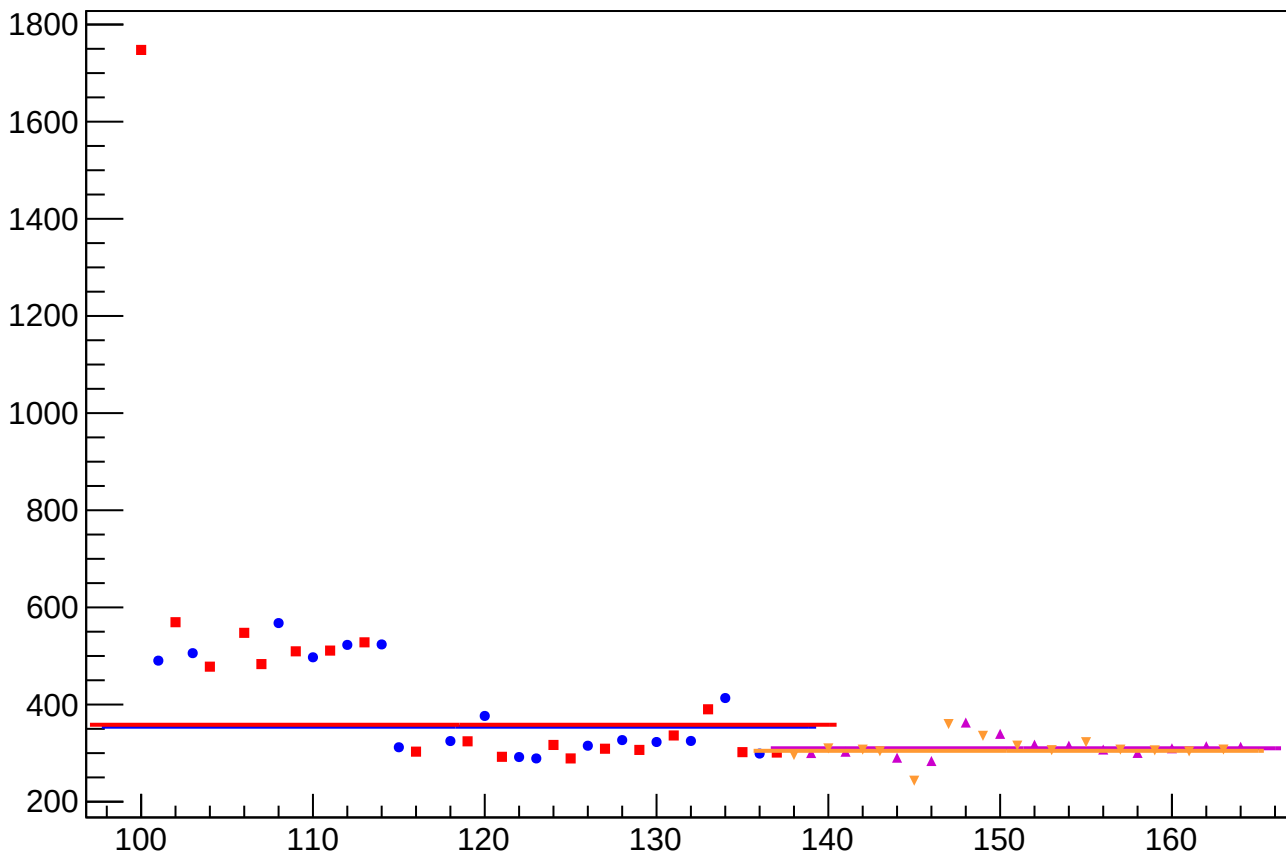
Right: 251.376 $\pm$ 98.698  $\chi^2/\text{NDF}$ : 29.5/35

In: -22.580 $\pm$ 79.396  $\chi^2/\text{NDF}$ :34.1/29

Out: -59.835 $\pm$ 77.924  $\chi^2/\text{NDF}$ :41.4/32

All: -41.556 $\pm$ 55.614  $\chi^2/\text{NDF}$ : 75.7/62

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 354.426 $\pm$ 0.099  $\chi^2/\text{NDF}$ : 636260.3/16

Left Out: 304.767 $\pm$ 0.066  $\chi^2/\text{NDF}$ :156964.1/13

Right Out: 358.422 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 879426.8/18

Left In: 309.972 $\pm$ 0.068  $\chi^2/\text{NDF}$ :74763.5/12

Left: 307.305 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 234714.6/26

Right: 356.435 $\pm$ 0.070  $\chi^2/\text{NDF}$ : 1516506.7/35

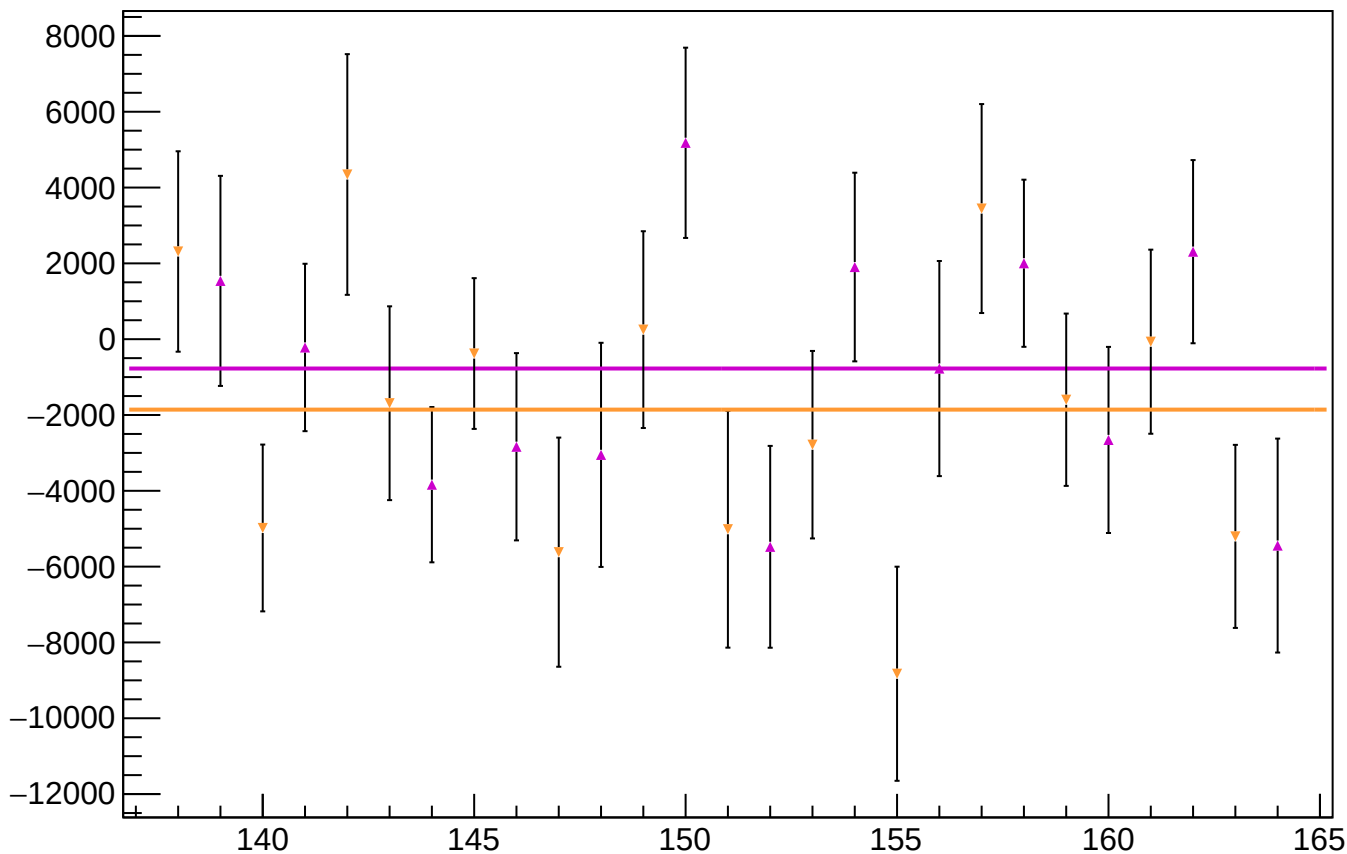
In: 324.275 $\pm$ 0.056  $\chi^2/\text{NDF}$ :847848.5/29

Out: 321.583 $\pm$ 0.055  $\chi^2/\text{NDF}$ :1240432.4/32

All: 322.904 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 2089451.6/62



asym\_sam2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1858.128+/-678.789  $\chi^2/\text{NDF}$ :24.5/13

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

Left In: -773.893+/-689.046  $\chi^2/\text{NDF}$ :20.7/12

Left: -1324.140+/-483.562  $\chi^2/\text{NDF}$ : 46.5/26

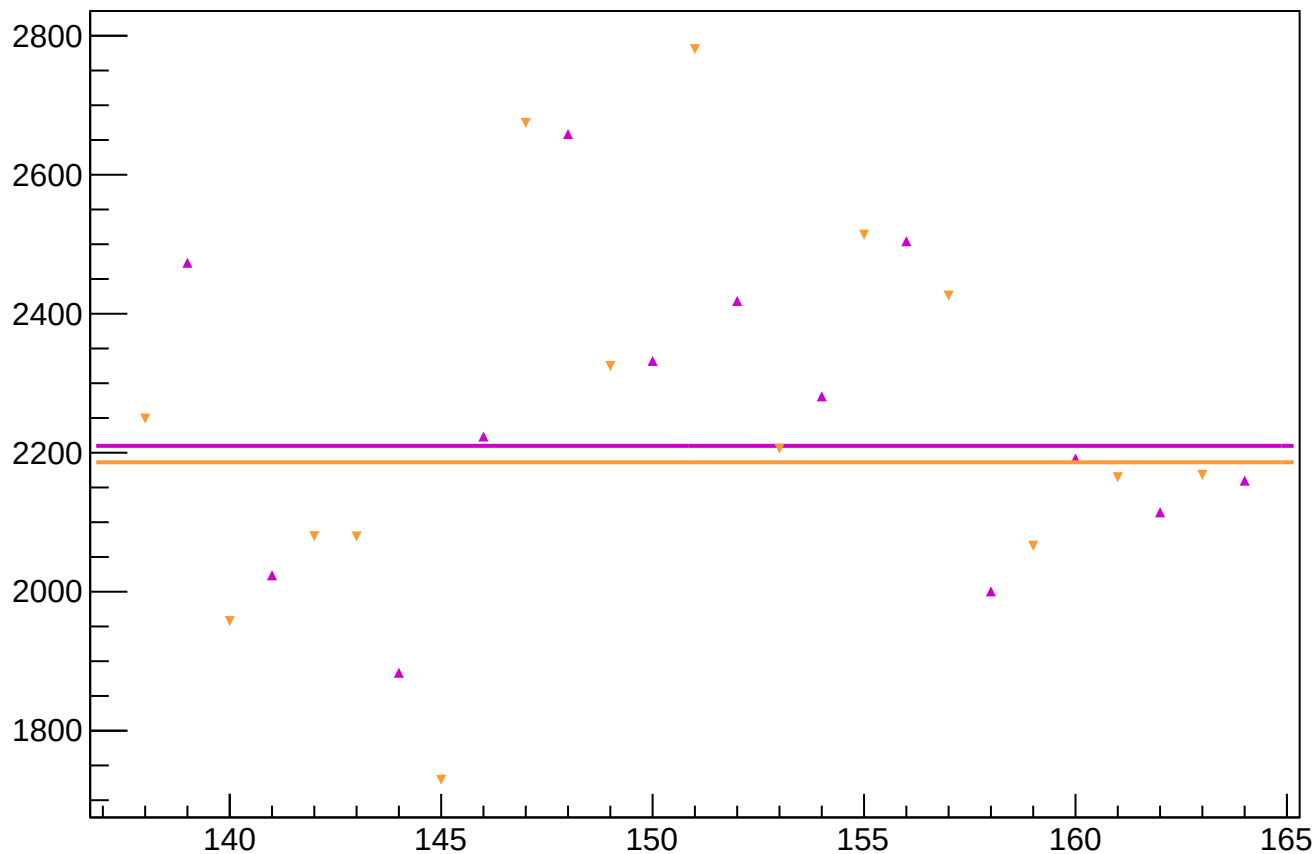
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -773.893+/-689.046  $\chi^2/\text{NDF}$ :20.7/12

Out: -1858.128+/-678.789  $\chi^2/\text{NDF}$ :24.5/13

All: -1324.140+/-483.562  $\chi^2/\text{NDF}$ : 46.5/26

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2186.252+/-0.480  $\chi^2/\text{NDF}$ :312298.6/13

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

Left In: 2209.917+/-0.487  $\chi^2/\text{NDF}$ :191347.2/12

Left: 2197.907+/-0.342  $\chi^2/\text{NDF}$ : 504843.0/26

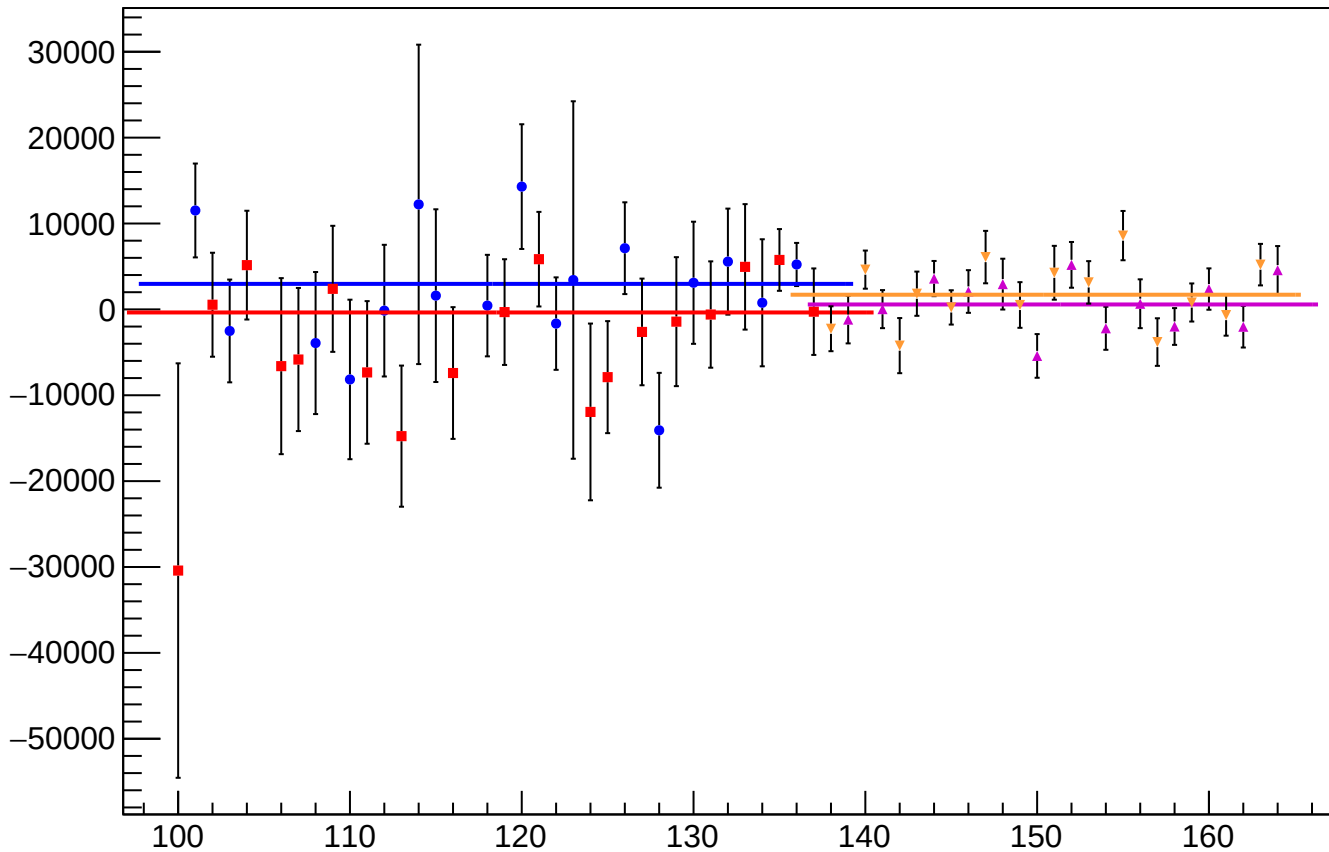
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2209.917+/-0.487  $\chi^2/\text{NDF}$ :191347.2/12

Out: 2186.252+/-0.480  $\chi^2/\text{NDF}$ :312298.6/13

All: 2197.907+/-0.342  $\chi^2/\text{NDF}$ : 504843.0/26

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2969.125+/-1440.489  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1707.381+/-680.182  $\chi^2/\text{NDF}$ : 24.2/13

Right Out: -358.685+/-1507.064  $\chi^2/\text{NDF}$ : 15.3/18

Left In: 573.093+/-687.772  $\chi^2/\text{NDF}$ : 18.6/12

Left: 1146.530+/-483.622  $\chi^2/\text{NDF}$ : 44.2/26

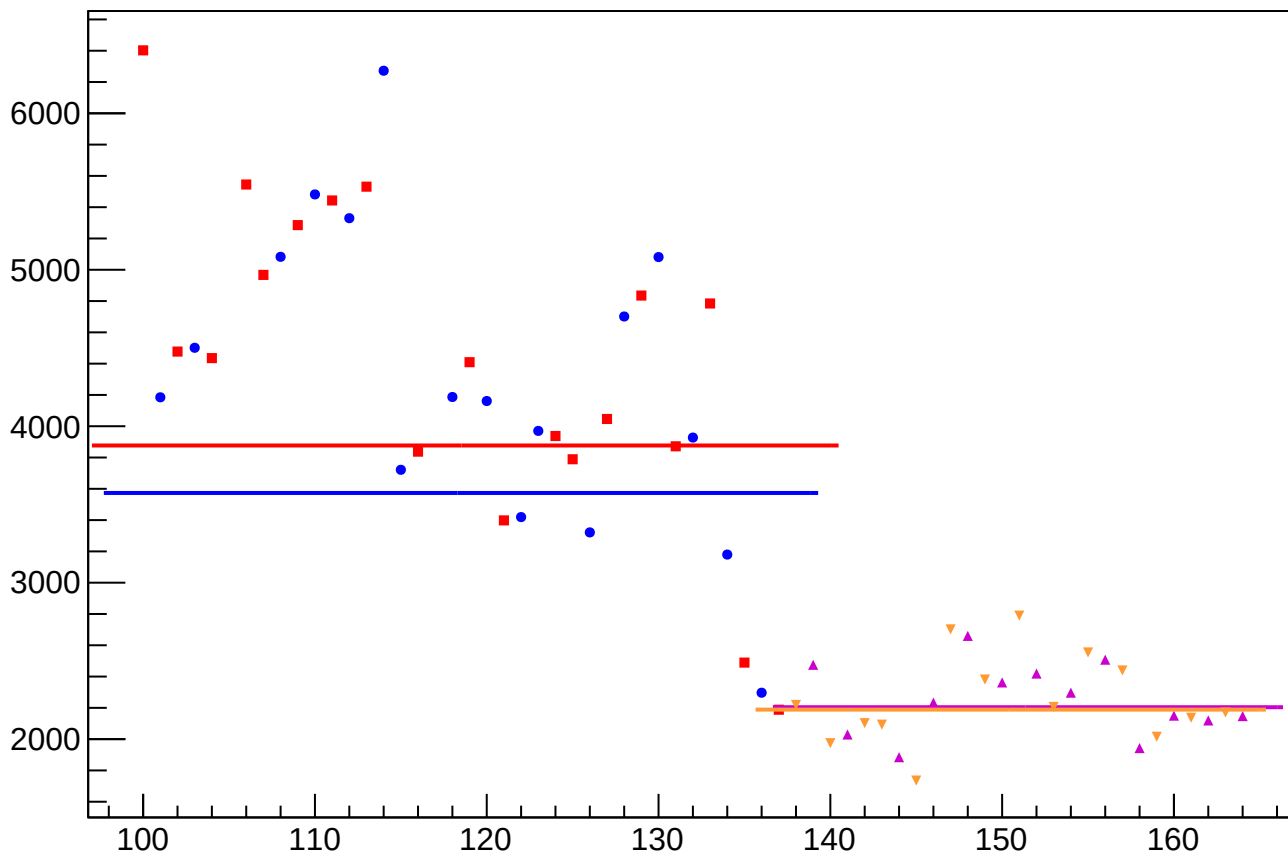
Right: 1380.346+/-1041.320  $\chi^2/\text{NDF}$ : 35.3/35

In: 1017.904+/-620.657  $\chi^2/\text{NDF}$ : 38.2/29

Out: 1357.747+/-619.964  $\chi^2/\text{NDF}$ : 41.1/32

All: 1188.015+/-438.625  $\chi^2/\text{NDF}$ : 79.5/62

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3573.470+/-1.019  $\chi^2/\text{NDF}$ : 1088731.5/16

Left Out: 2188.761+/-0.481  $\chi^2/\text{NDF}$ : 328586.8/13

Right Out: 3876.914+/-1.066  $\chi^2/\text{NDF}$ : 988409.8/18

Left In: 2204.016+/-0.486  $\chi^2/\text{NDF}$ : 208217.8/12

Left: 2196.304+/-0.342  $\chi^2/\text{NDF}$ : 537302.1/26

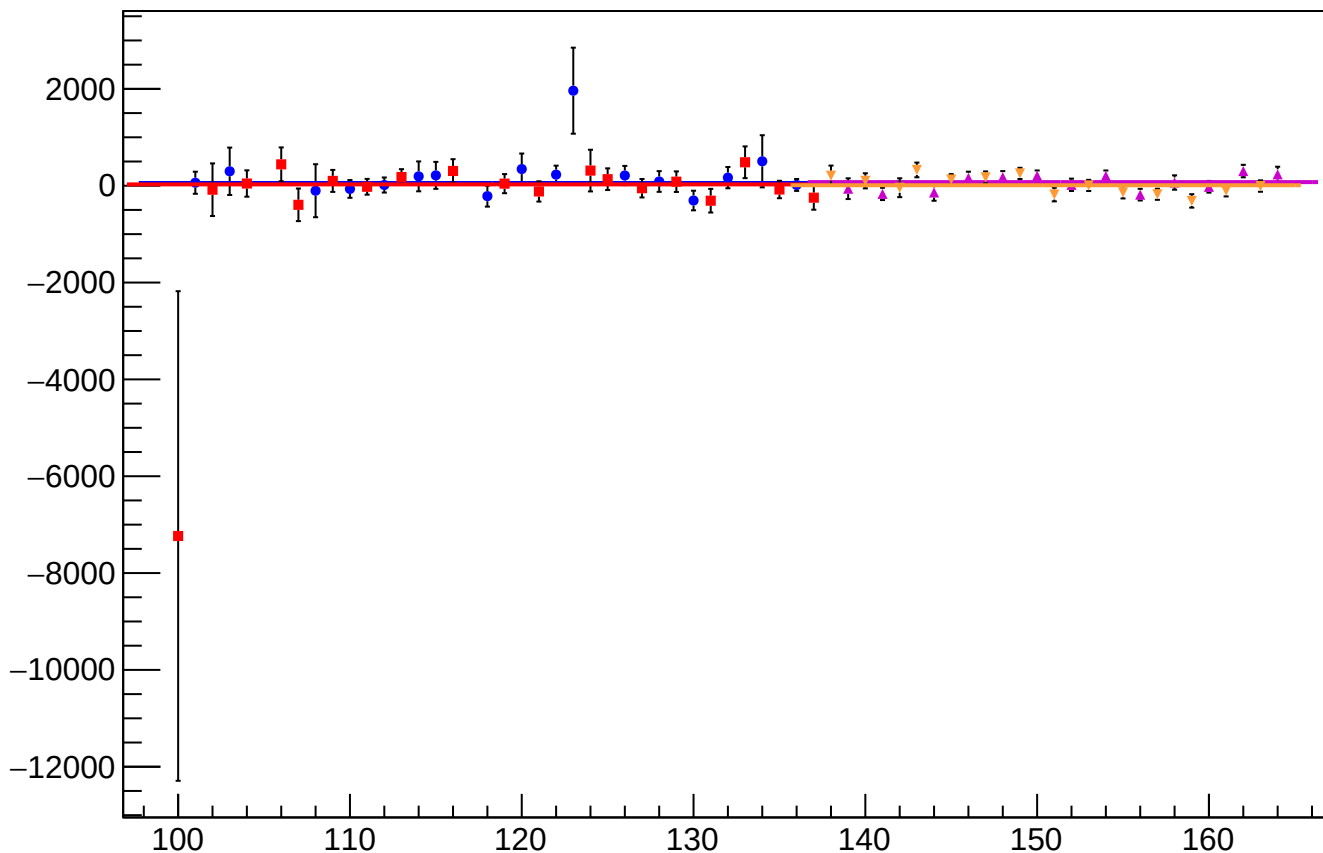
Right: 3718.342+/-0.736  $\chi^2/\text{NDF}$ : 2119512.7/35

In: 2458.248+/-0.439  $\chi^2/\text{NDF}$ : 2768985.7/29

Out: 2474.442+/-0.438  $\chi^2/\text{NDF}$ : 3401834.3/32

All: 2466.354+/-0.310  $\chi^2/\text{NDF}$ : 6171501.5/62

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 56.595+/-53.880  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 9.802+/-35.036  $\chi^2/\text{NDF}$ : 25.2/13

Right Out: 27.299+/-54.033  $\chi^2/\text{NDF}$ : 14.3/18

Left In: 74.431+/-36.522  $\chi^2/\text{NDF}$ : 19.1/12

Left: 40.775+/-25.284  $\chi^2/\text{NDF}$ : 45.9/26

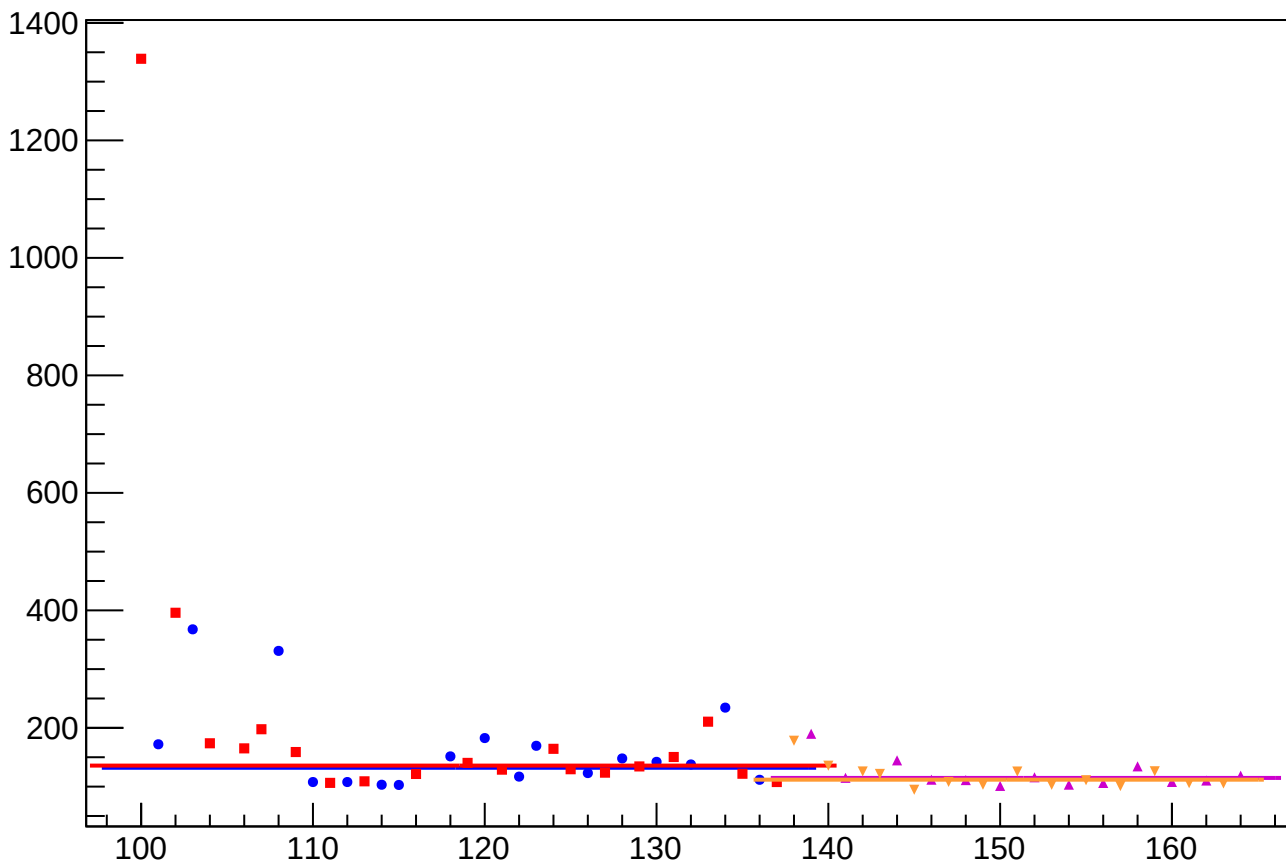
Right: 41.988+/-38.153  $\chi^2/\text{NDF}$ : 28.5/35

In: 68.816+/-30.232  $\chi^2/\text{NDF}$ : 33.2/29

Out: 14.981+/-29.397  $\chi^2/\text{NDF}$ : 39.5/32

All: 41.145+/-21.076  $\chi^2/\text{NDF}$ : 74.4/62

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 132.104 $\pm$ 0.038  $\chi^2$ /NDF: 1144612.1/16

Left Out: 111.807 $\pm$ 0.025  $\chi^2$ /NDF: 406741.7/13

Right Out: 135.773 $\pm$ 0.038  $\chi^2$ /NDF: 1009635.6/18

Left In: 114.780 $\pm$ 0.026  $\chi^2$ /NDF: 416222.9/12

Left: 113.232 $\pm$ 0.018  $\chi^2$ /NDF: 829866.2/26

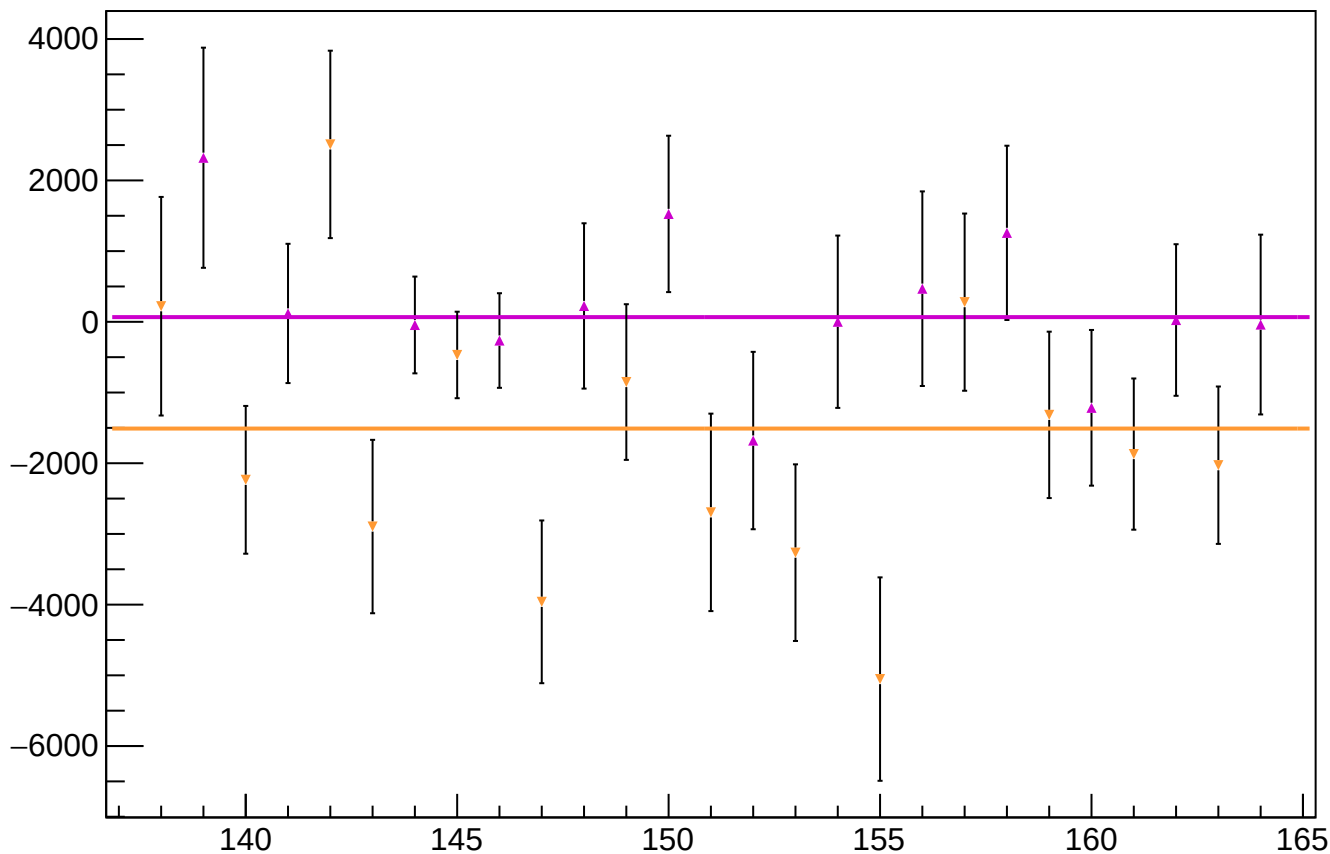
Right: 133.933 $\pm$ 0.027  $\chi^2$ /NDF: 2158872.4/35

In: 120.234 $\pm$ 0.021  $\chi^2$ /NDF: 1702500.7/29

Out: 118.901 $\pm$ 0.021  $\chi^2$ /NDF: 1693380.6/32

All: 119.549 $\pm$ 0.015  $\chi^2$ /NDF: 3397879.6/62

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



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

Left Out:  $-1509.644 \pm 294.907$   $\chi^2/\text{NDF}: 31.1/13$

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

Left In:  $66.669 \pm 286.652$   $\chi^2/\text{NDF}: 8.5/12$

Left:  $-699.117 \pm 205.550$   $\chi^2/\text{NDF}: 54.3/26$

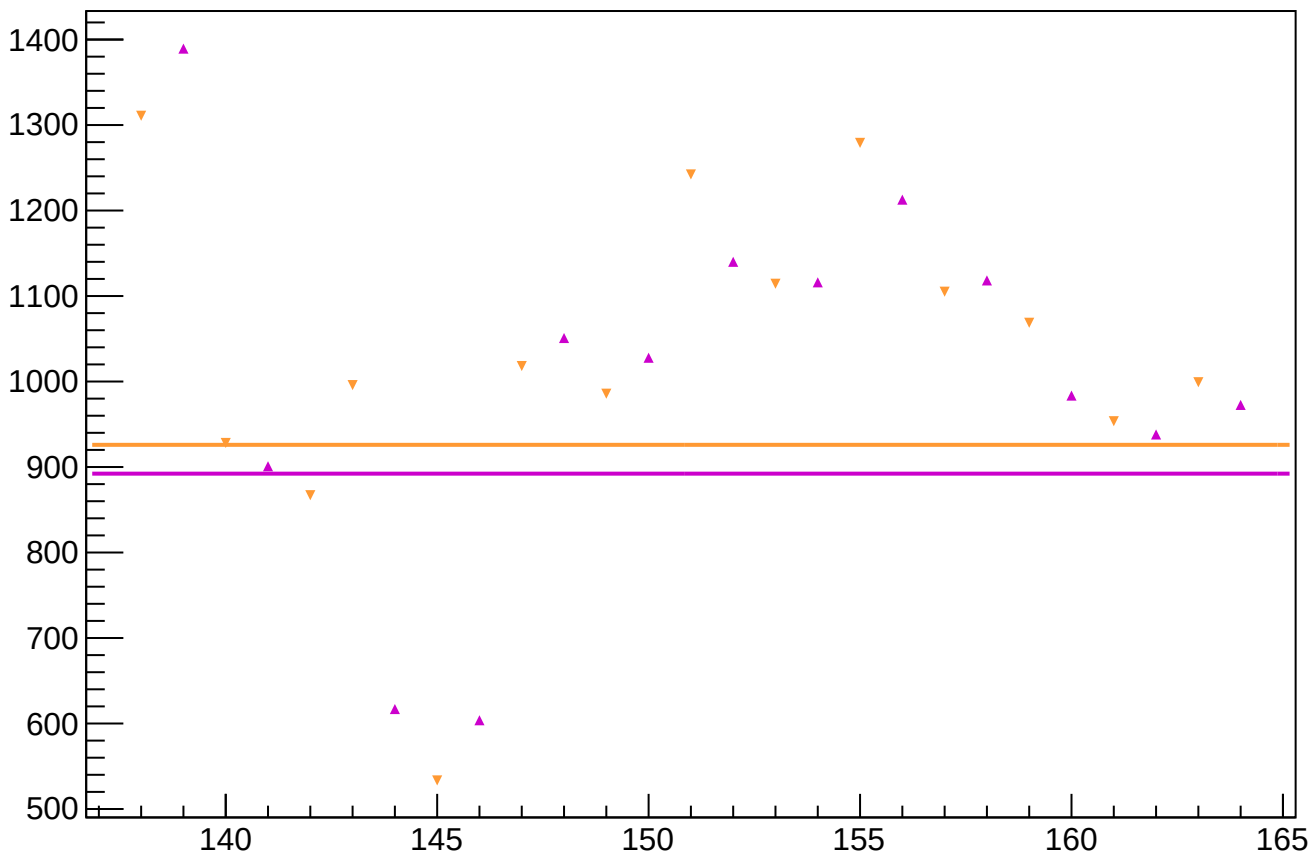
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $66.669 \pm 286.652$   $\chi^2/\text{NDF}: 8.5/12$

Out:  $-1509.644 \pm 294.907$   $\chi^2/\text{NDF}: 31.1/13$

All:  $-699.117 \pm 205.550$   $\chi^2/\text{NDF}: 54.3/26$

# asym\_sam3\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 925.953+/-0.209  $\chi^2/\text{NDF}$ :1325582.0/13

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

Left In: 892.241+/-0.203  $\chi^2/\text{NDF}$ :1312954.4/12

Left: 908.619+/-0.145  $\chi^2/\text{NDF}$ : 2651974.9/26

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

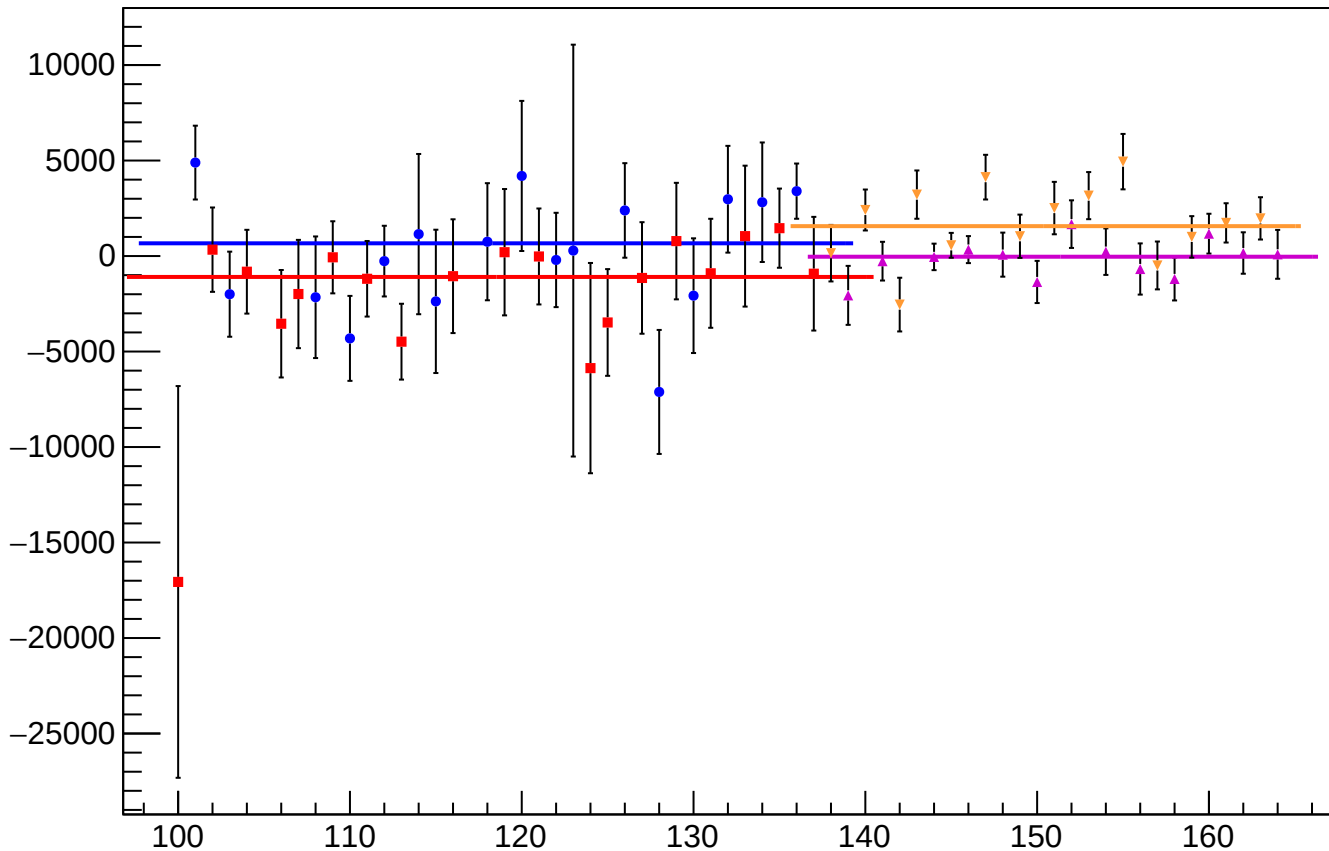
In: 892.241+/-0.203  $\chi^2/\text{NDF}$ :1312954.4/12

Out: 925.953+/-0.209  $\chi^2/\text{NDF}$ :1325582.0/13

All: 908.619+/-0.145  $\chi^2/\text{NDF}$ : 2651974.9/26



# asym\_sam3\_mean vs Slug, Sign Corrected



Right In:  $666.453 \pm 618.839$   $\chi^2/\text{NDF}$ : 25.6/16

Left Out:  $1565.030 \pm 298.225$   $\chi^2/\text{NDF}$ : 29.9/13

Right Out:  $-1094.278 \pm 602.639$   $\chi^2/\text{NDF}$ : 11.0/18

Left In:  $-35.723 \pm 287.646$   $\chi^2/\text{NDF}$ : 8.1/12

Left:  $735.759 \pm 207.036$   $\chi^2/\text{NDF}$ : 52.9/26

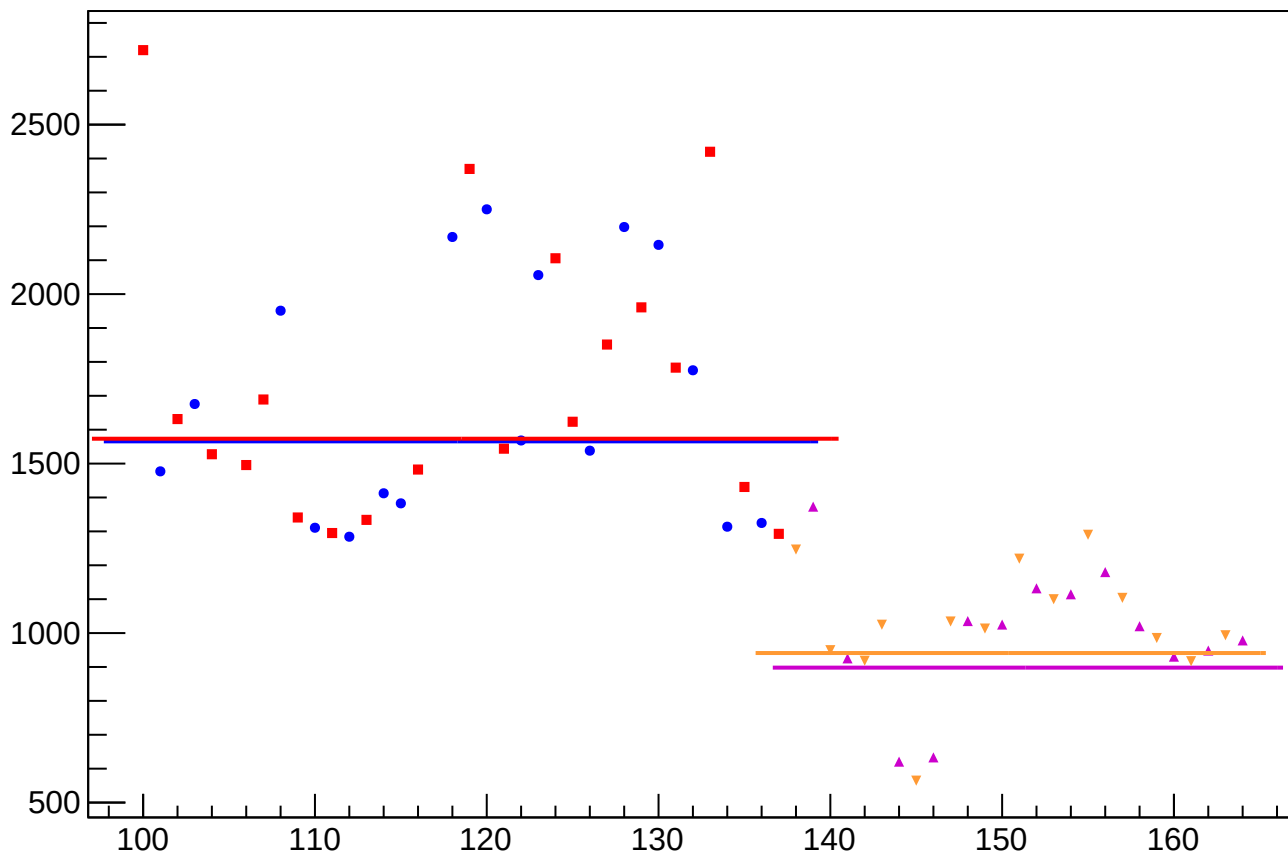
Right:  $-237.260 \pm 431.744$   $\chi^2/\text{NDF}$ : 40.8/35

In:  $89.031 \pm 260.845$   $\chi^2/\text{NDF}$ : 34.8/29

Out:  $1041.899 \pm 267.287$   $\chi^2/\text{NDF}$ : 56.5/32

All:  $553.843 \pm 186.681$   $\chi^2/\text{NDF}$ : 97.8/62

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In:  $1565.623 \pm 0.438$   $\chi^2/\text{NDF}: 490790.2/16$

Left Out:  $941.159 \pm 0.211$   $\chi^2/\text{NDF}: 1059607.0/13$

Right Out:  $1573.366 \pm 0.426$   $\chi^2/\text{NDF}: 462040.3/18$

Left In:  $898.052 \pm 0.203$   $\chi^2/\text{NDF}: 1105247.5/12$

Left:  $918.827 \pm 0.146$   $\chi^2/\text{NDF}: 2186502.5/26$

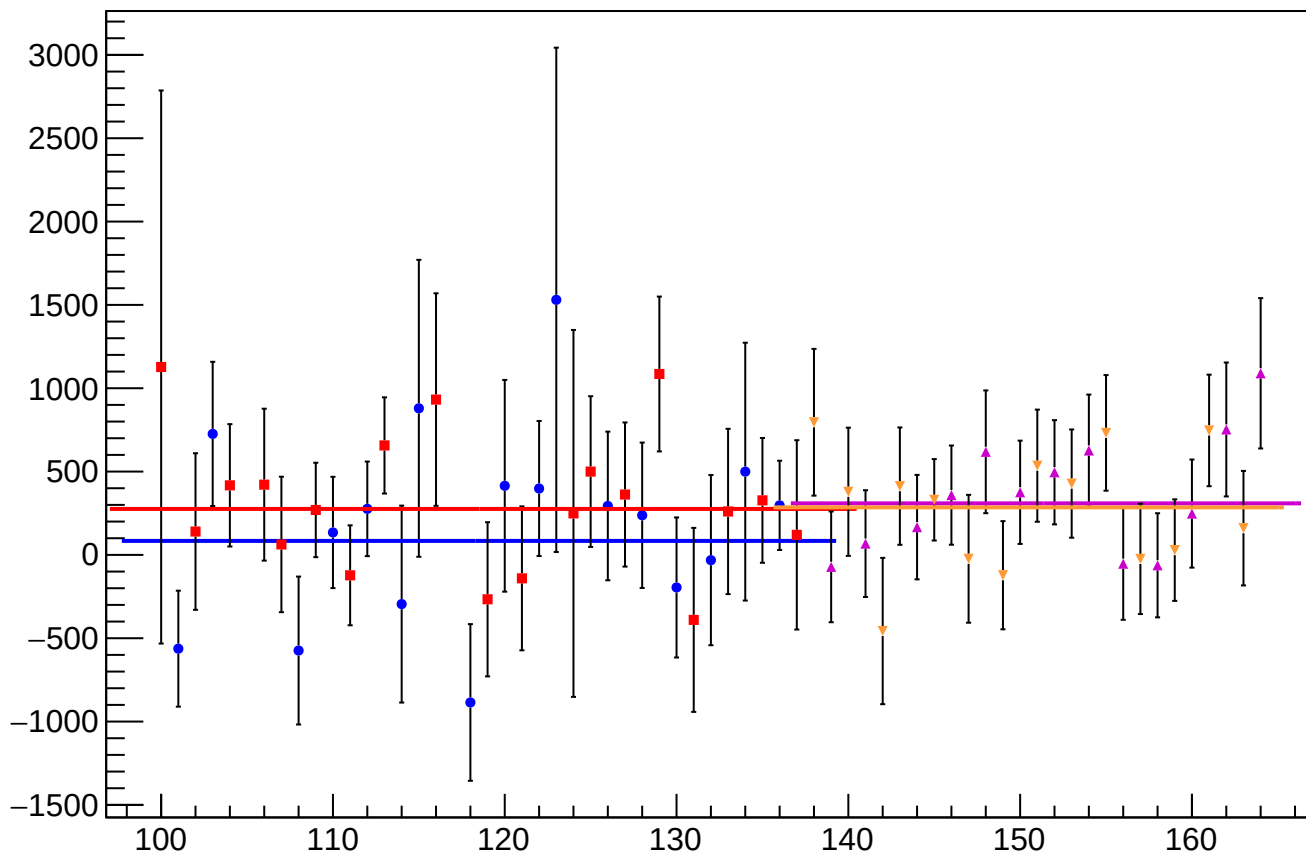
Right:  $1569.597 \pm 0.305$   $\chi^2/\text{NDF}: 952991.2/35$

In:  $1016.658 \pm 0.184$   $\chi^2/\text{NDF}: 3509926.0/29$

Out:  $1065.525 \pm 0.189$   $\chi^2/\text{NDF}: 3289726.1/32$

All:  $1040.495 \pm 0.132$   $\chi^2/\text{NDF}: 6833893.1/62$

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 83.935 $\pm$ 103.619  $\chi^2$ /NDF: 17.3/16

Left Out: 285.138 $\pm$ 90.476  $\chi^2$ /NDF:12.7/13

Right Out: 275.803 $\pm$ 97.798  $\chi^2$ /NDF: 12.6/18

Left In: 309.222 $\pm$ 92.501  $\chi^2$ /NDF:10.9/12

Left: 296.913 $\pm$ 64.680  $\chi^2$ /NDF: 23.6/26

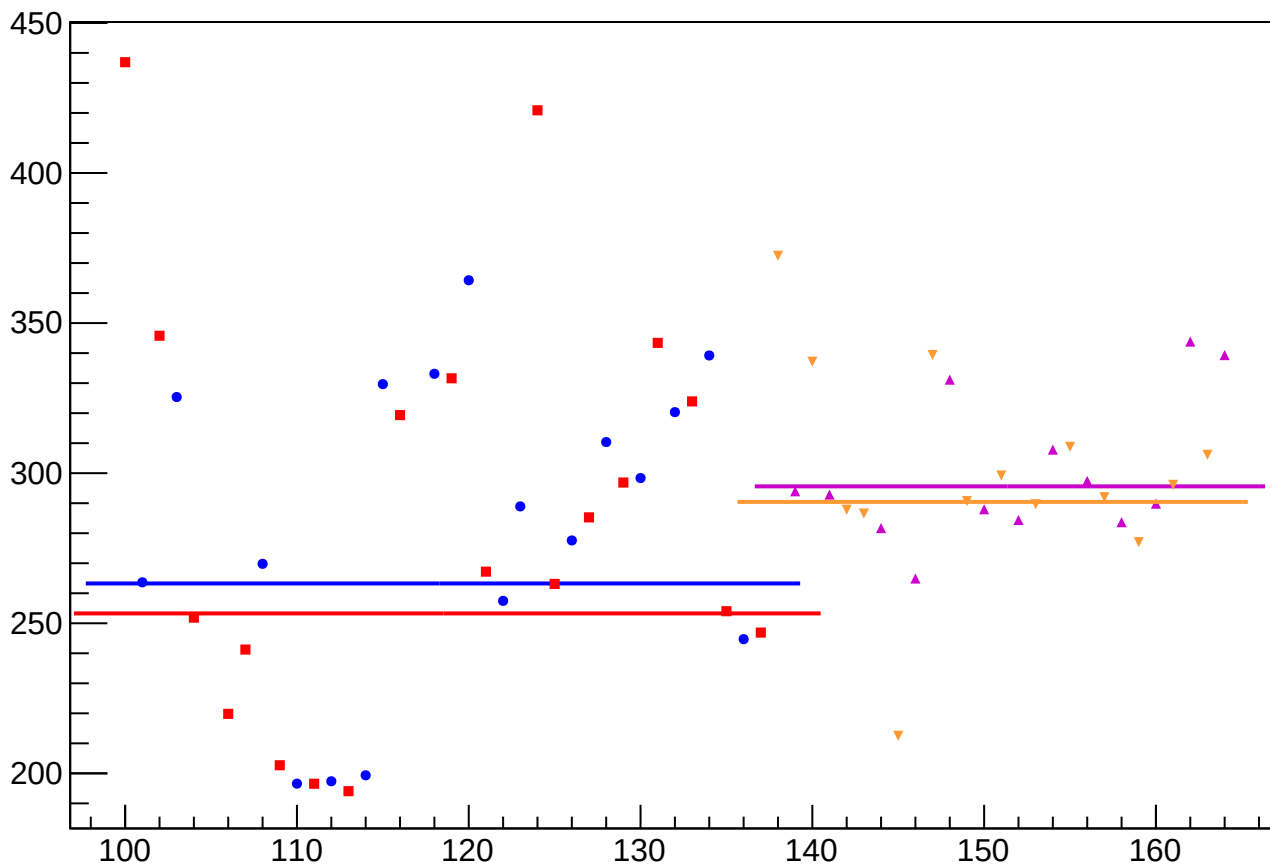
Right: 185.409 $\pm$ 71.122  $\chi^2$ /NDF: 31.8/35

In: 209.308 $\pm$ 69.005  $\chi^2$ /NDF:30.9/29

Out: 280.833 $\pm$ 66.414  $\chi^2$ /NDF:25.3/32

All: 246.439 $\pm$ 47.852  $\chi^2$ /NDF: 56.8/62

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 263.262 $\pm$ 0.073  $\chi^2$ /NDF: 452757.7/16

Left Out: 290.432 $\pm$ 0.064  $\chi^2$ /NDF: 350746.3/13

Right Out: 253.283 $\pm$ 0.069  $\chi^2$ /NDF: 585121.8/18

Left In: 295.607 $\pm$ 0.065  $\chi^2$ /NDF: 101724.5/12

Left: 292.962 $\pm$ 0.046  $\chi^2$ /NDF: 455669.5/26

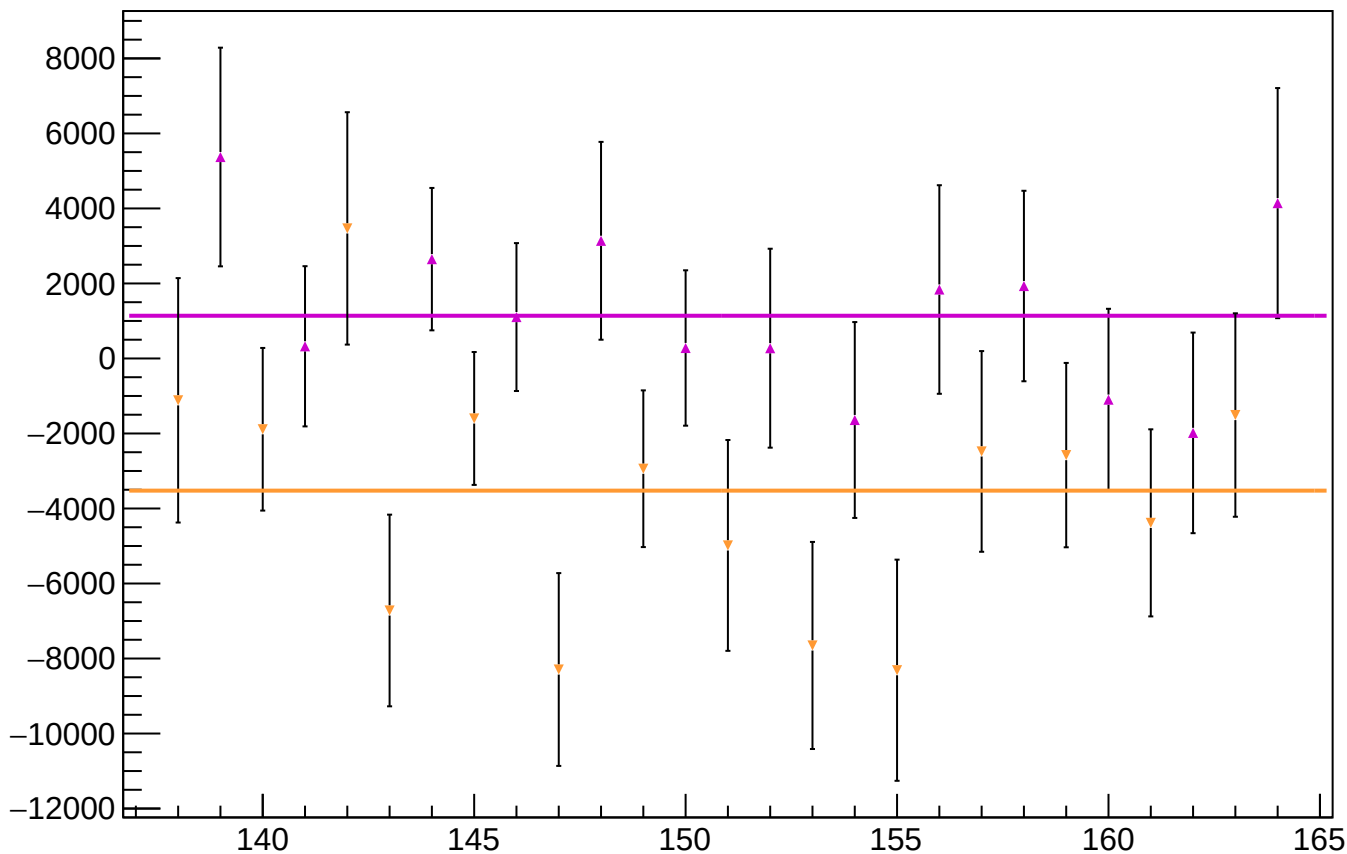
Right: 257.985 $\pm$ 0.050  $\chi^2$ /NDF: 1047690.7/35

In: 281.262 $\pm$ 0.049  $\chi^2$ /NDF: 662931.5/29

Out: 273.300 $\pm$ 0.047  $\chi^2$ /NDF: 1091367.4/32

All: 277.129 $\pm$ 0.034  $\chi^2$ /NDF: 1768121.6/62

# asym\_sam4\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -3523.765+/-668.415  $\chi^2/\text{NDF}$ :18.6/13

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

Left In: 1138.943+/-668.412  $\chi^2/\text{NDF}$ :8.2/12

Left: -1192.403+/-472.640  $\chi^2/\text{NDF}$ : 51.1/26

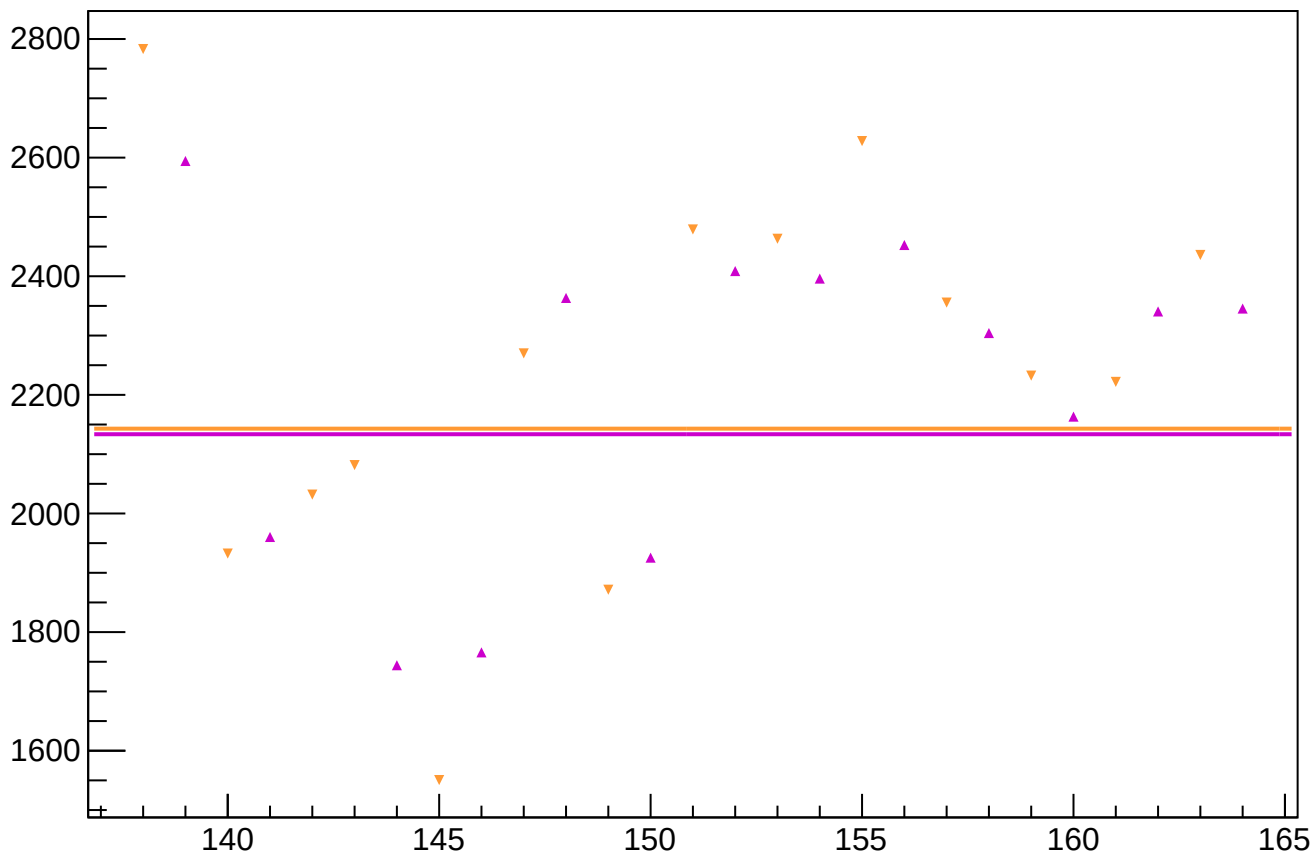
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1138.943+/-668.412  $\chi^2/\text{NDF}$ :8.2/12

Out: -3523.765+/-668.415  $\chi^2/\text{NDF}$ :18.6/13

All: -1192.403+/-472.640  $\chi^2/\text{NDF}$ : 51.1/26

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2143.018+/-0.473  $\chi^2/\text{NDF}$ :512326.1/13

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

Left In: 2133.627+/-0.473  $\chi^2/\text{NDF}$ :351184.2/12

Left: 2138.322+/-0.334  $\chi^2/\text{NDF}$ : 863707.8/26

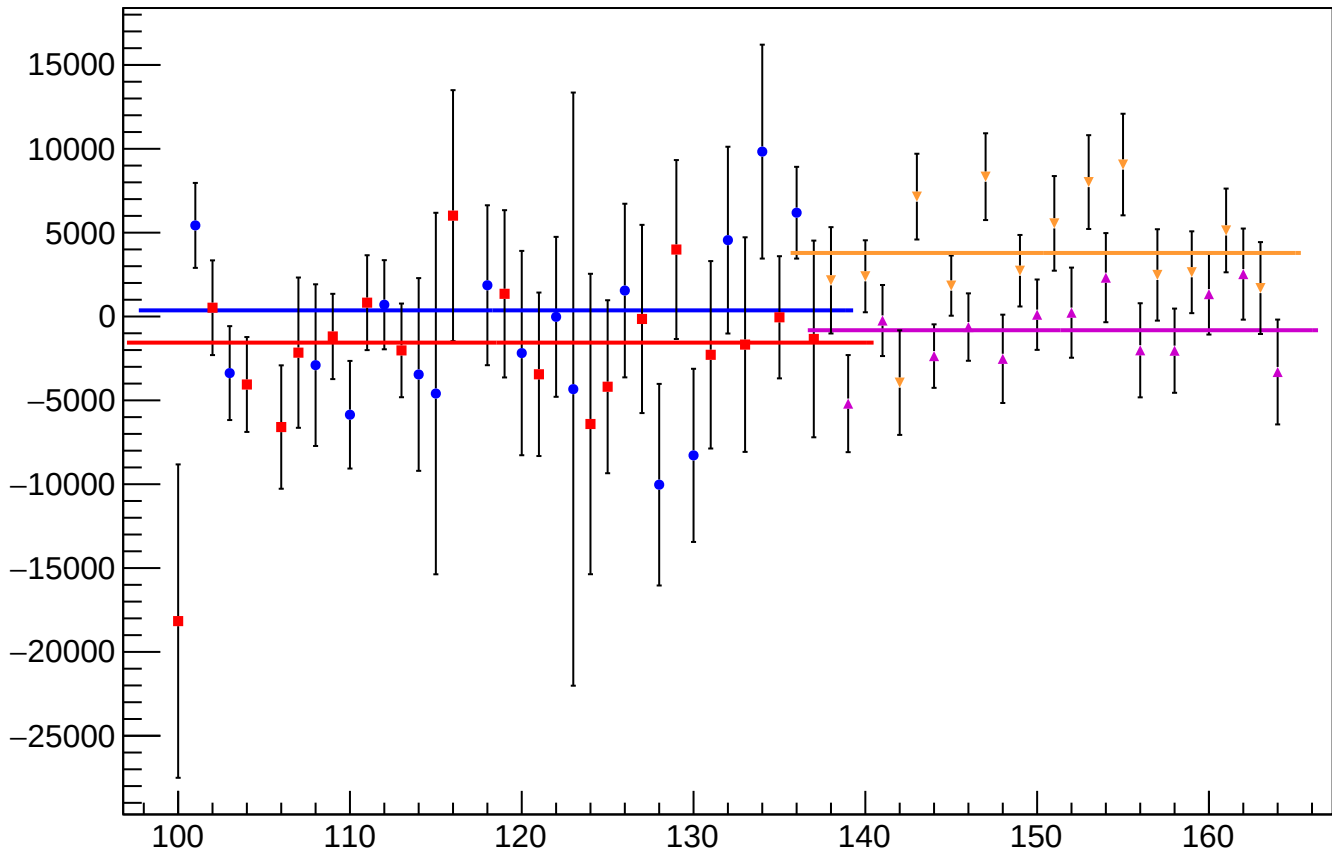
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2133.627+/-0.473  $\chi^2/\text{NDF}$ :351184.2/12

Out: 2143.018+/-0.473  $\chi^2/\text{NDF}$ :512326.1/13

All: 2138.322+/-0.334  $\chi^2/\text{NDF}$ : 863707.8/26

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 366.454 $\pm$ 992.480  $\chi^2/\text{NDF}$ : 24.2/16

Left Out: 3790.007 $\pm$ 672.550  $\chi^2/\text{NDF}$ : 20.1/13

Right Out: -1557.388 $\pm$ 924.003  $\chi^2/\text{NDF}$ : 10.5/18

Left In: -817.981 $\pm$ 671.873  $\chi^2/\text{NDF}$ : 8.6/12

Left: 1483.692 $\pm$ 475.325  $\chi^2/\text{NDF}$ : 52.2/26

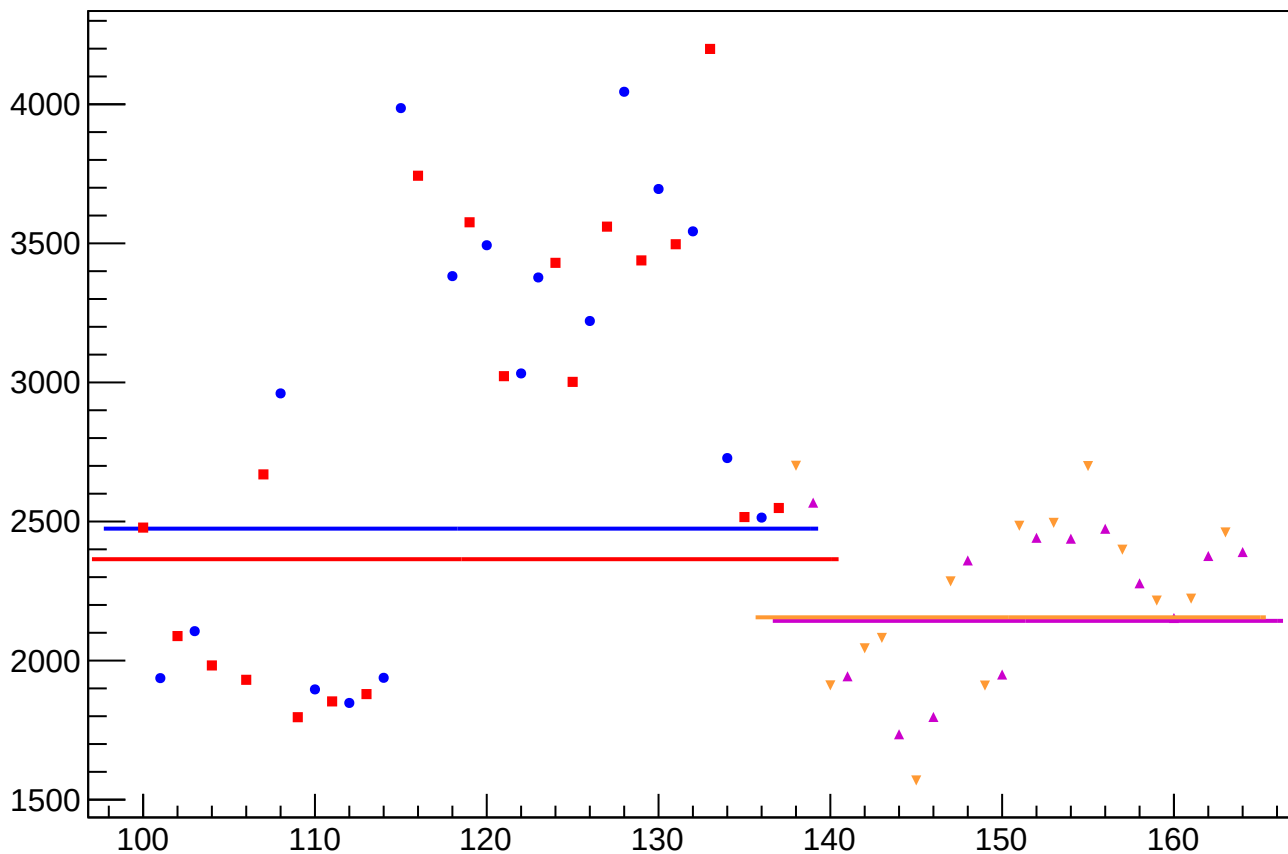
Right: -664.120 $\pm$ 676.282  $\chi^2/\text{NDF}$ : 36.7/35

In: -445.760 $\pm$ 556.374  $\chi^2/\text{NDF}$ : 33.7/29

Out: 1938.125 $\pm$ 543.762  $\chi^2/\text{NDF}$ : 52.5/32

All: 773.508 $\pm$ 388.880  $\chi^2/\text{NDF}$ : 95.6/62

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2474.389+/-0.702  $\chi^2/\text{NDF}$ : 906262.1/16

Left Out: 2155.563+/-0.476  $\chi^2/\text{NDF}$ : 498743.4/13

Right Out: 2364.507+/-0.653  $\chi^2/\text{NDF}$ : 1023402.8/18

Left In: 2142.852+/-0.475  $\chi^2/\text{NDF}$ : 353477.4/12

Left: 2149.201+/-0.336  $\chi^2/\text{NDF}$ : 852578.4/26

Right: 2415.527+/-0.478  $\chi^2/\text{NDF}$ : 1942797.3/35

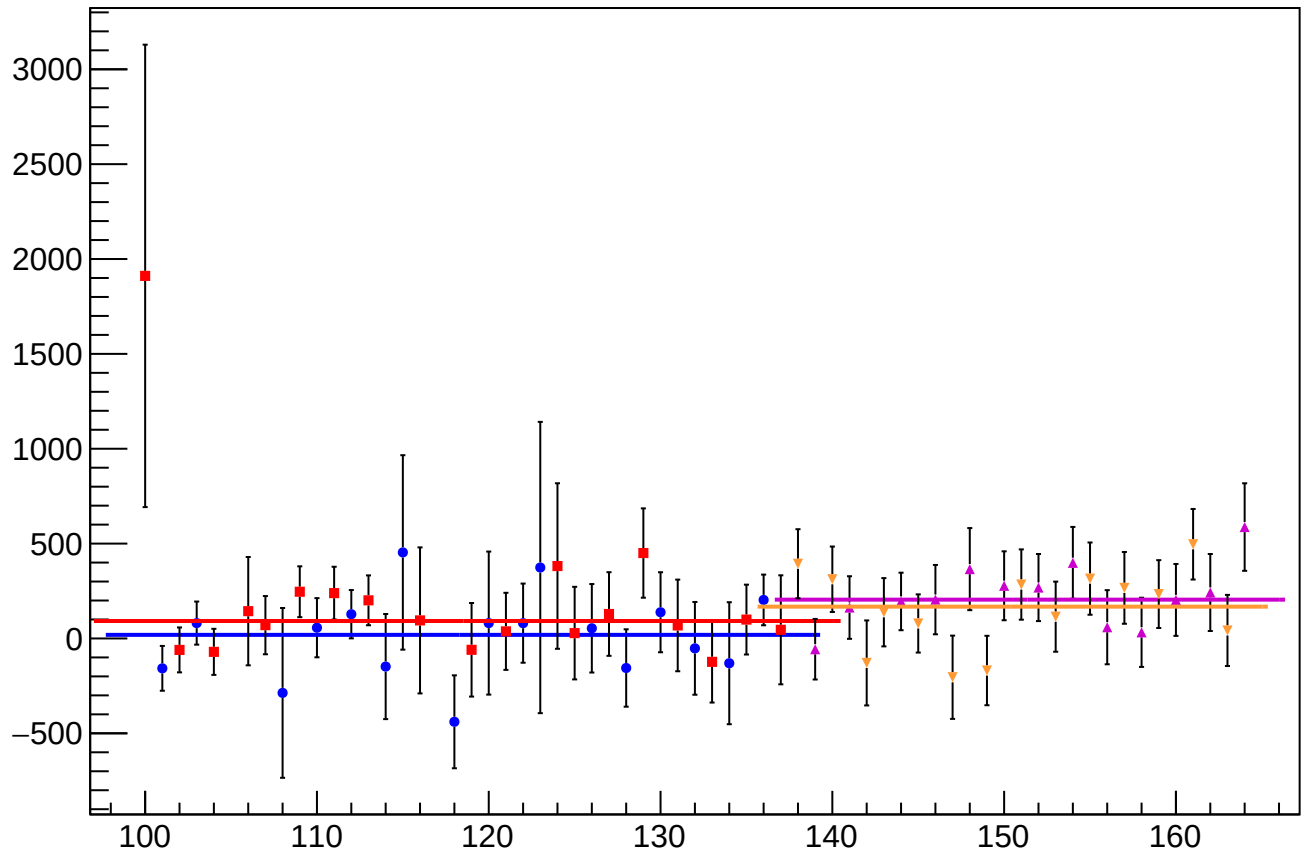
In: 2247.041+/-0.393  $\chi^2/\text{NDF}$ : 1412781.0/29

Out: 2227.923+/-0.384  $\chi^2/\text{NDF}$ : 1588998.1/32

All: 2237.263+/-0.275  $\chi^2/\text{NDF}$ : 3002986.9/62



# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $18.930 \pm 46.147$   $\chi^2/\text{NDF}: 12.0/16$

Left Out:  $167.677 \pm 49.372$   $\chi^2/\text{NDF}: 15.7/13$

Right Out:  $91.993 \pm 42.693$   $\chi^2/\text{NDF}: 13.2/18$

Left In:  $204.570 \pm 50.749$   $\chi^2/\text{NDF}: 8.9/12$

Left:  $185.616 \pm 35.388$   $\chi^2/\text{NDF}: 24.8/26$

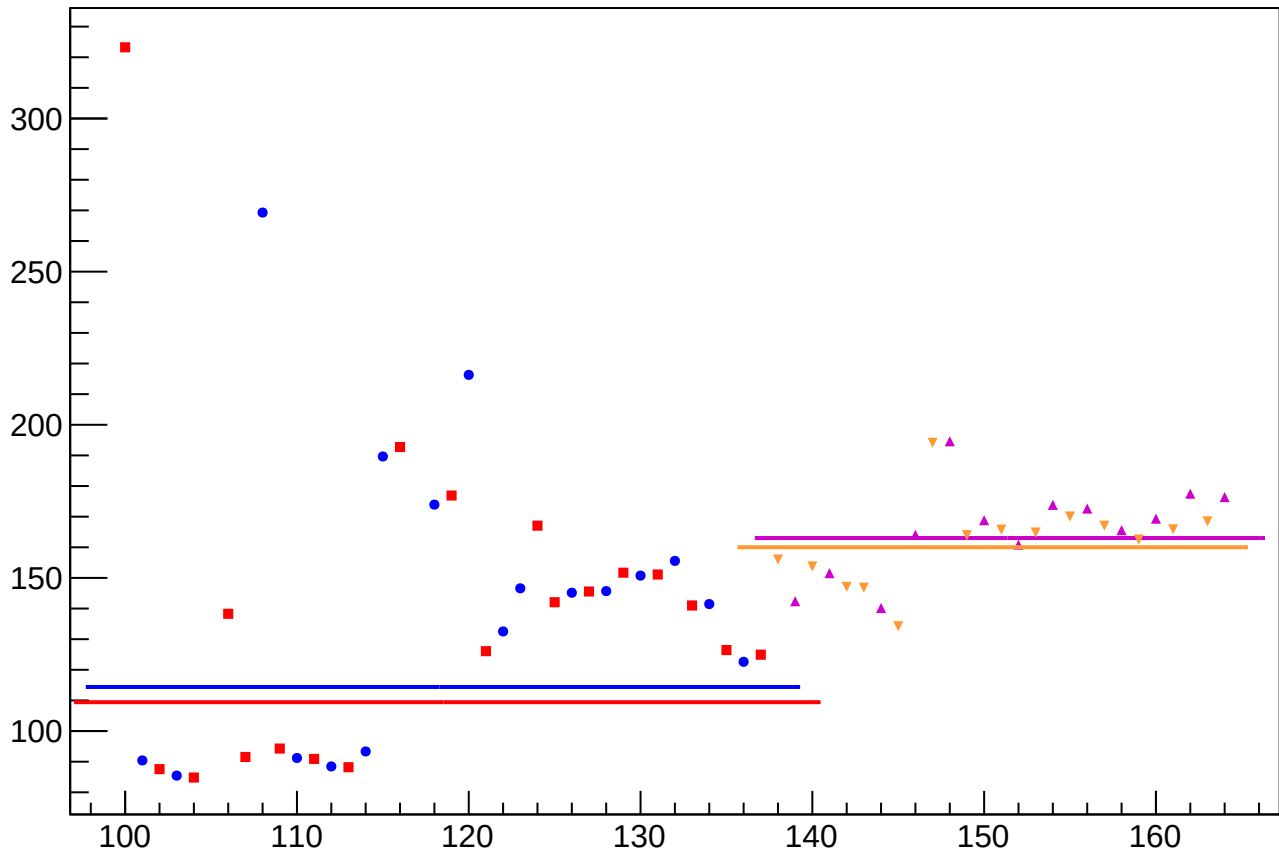
Right:  $58.298 \pm 31.339$   $\chi^2/\text{NDF}: 26.5/35$

In:  $102.954 \pm 34.142$   $\chi^2/\text{NDF}: 28.2/29$

Out:  $124.374 \pm 32.294$   $\chi^2/\text{NDF}: 30.2/32$

All:  $114.259 \pm 23.461$   $\chi^2/\text{NDF}: 58.6/62$

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 114.391+/-0.033  $\chi^2/\text{NDF}$ : 1136702.0/16

Left Out: 160.021+/-0.035  $\chi^2/\text{NDF}$ :144869.4/13

Right Out: 109.428+/-0.030  $\chi^2/\text{NDF}$ : 944386.0/18

Left In: 163.025+/-0.036  $\chi^2/\text{NDF}$ :164559.3/12

Left: 161.482+/-0.025  $\chi^2/\text{NDF}$ : 313029.2/26

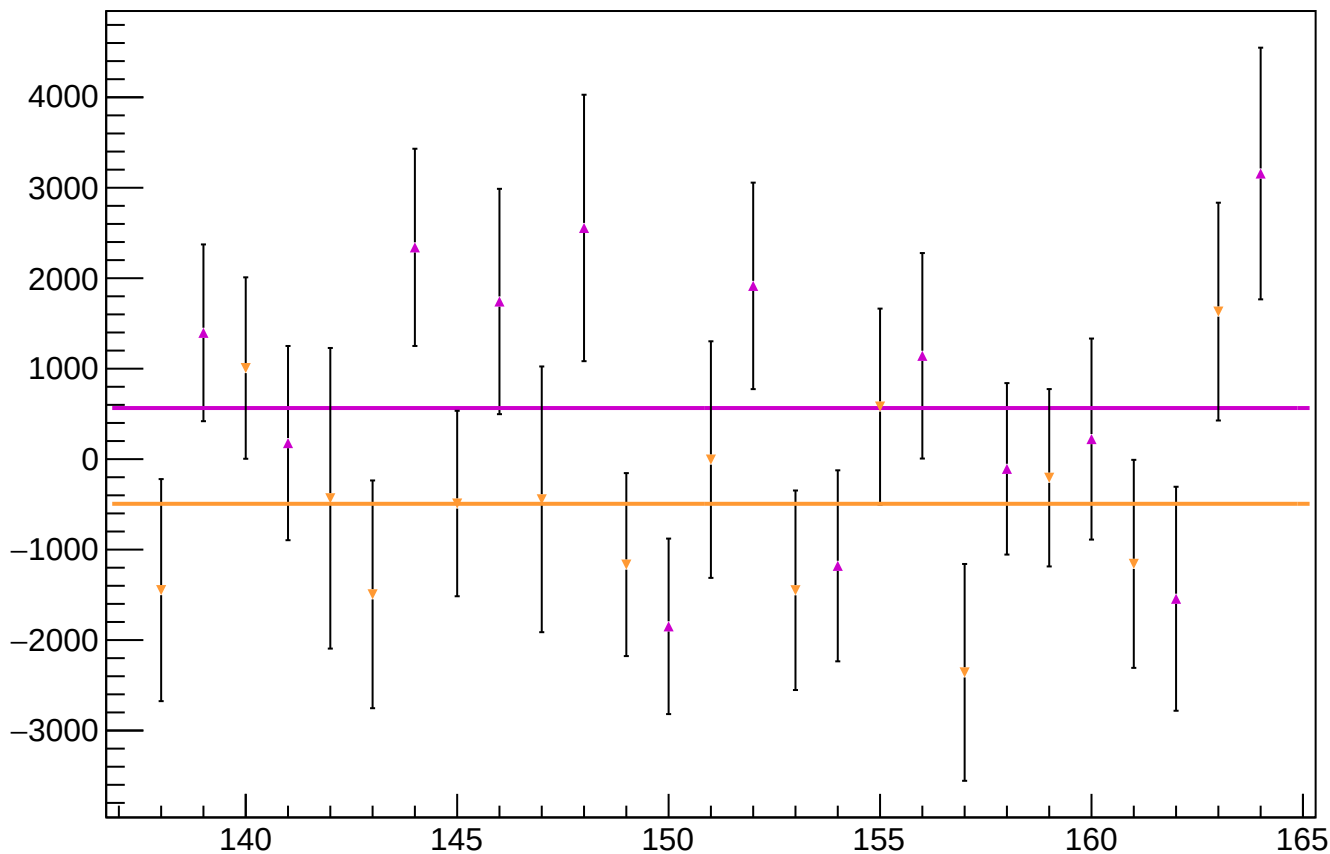
Right: 111.717+/-0.022  $\chi^2/\text{NDF}$ : 2093555.7/35

In: 136.404+/-0.024  $\chi^2/\text{NDF}$ :2306678.6/29

Out: 131.074+/-0.023  $\chi^2/\text{NDF}$ :2290896.0/32

All: 133.590+/-0.017  $\chi^2/\text{NDF}$ : 4623303.0/62

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -493.637+/-308.787  $\chi^2/\text{NDF}$ : 11.7/13

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

Left In: 564.901+/-309.230  $\chi^2/\text{NDF}$ : 23.8/12

Left: 34.872+/-218.502  $\chi^2/\text{NDF}$ : 41.4/26

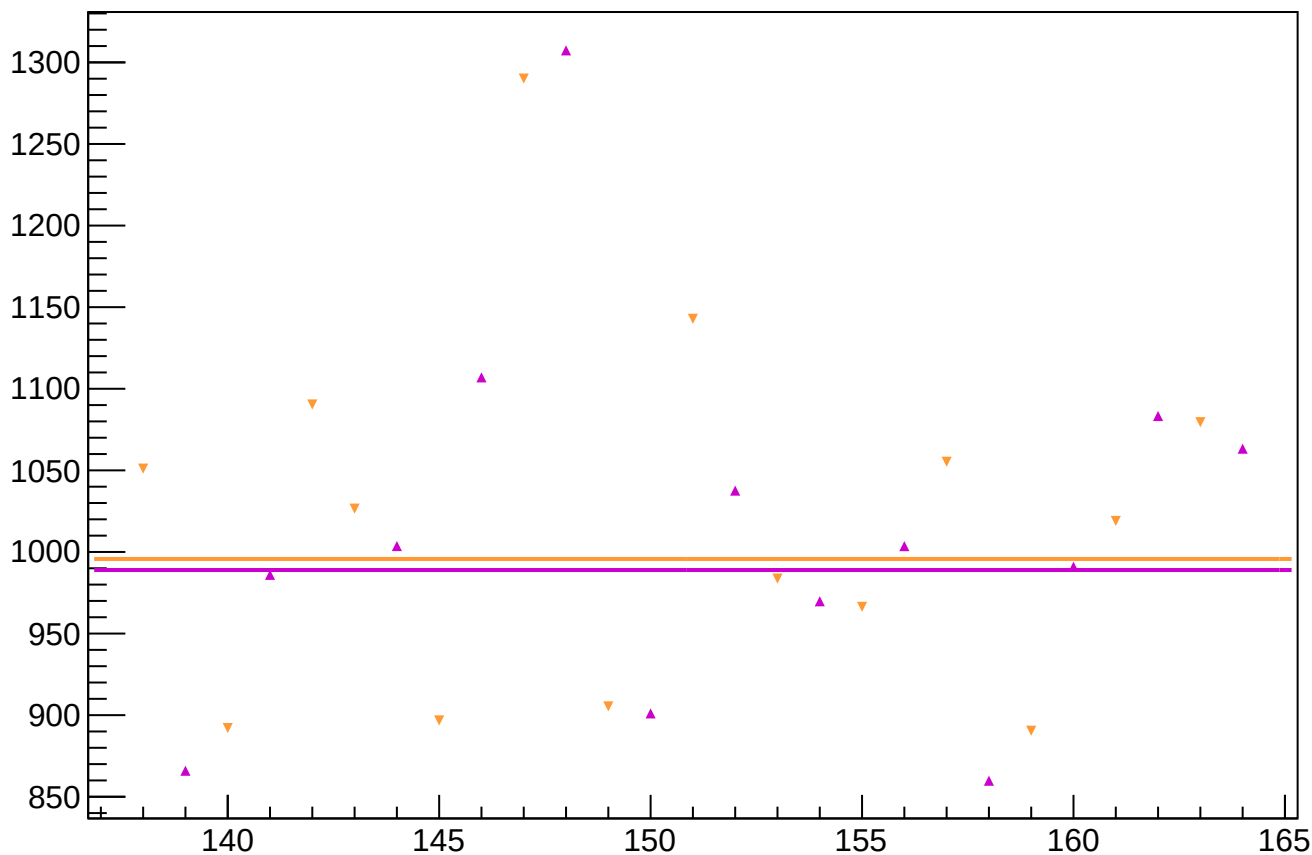
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 564.901+/-309.230  $\chi^2/\text{NDF}$ : 23.8/12

Out: -493.637+/-308.787  $\chi^2/\text{NDF}$ : 11.7/13

All: 34.872+/-218.502  $\chi^2/\text{NDF}$ : 41.4/26

# asym\_sam5\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 995.715+/-0.218  $\chi^2/\text{NDF}$ : 213586.4/13

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

Left In: 988.936+/-0.219  $\chi^2/\text{NDF}$ : 219031.0/12

Left: 992.331+/-0.155  $\chi^2/\text{NDF}$ : 433098.6/26

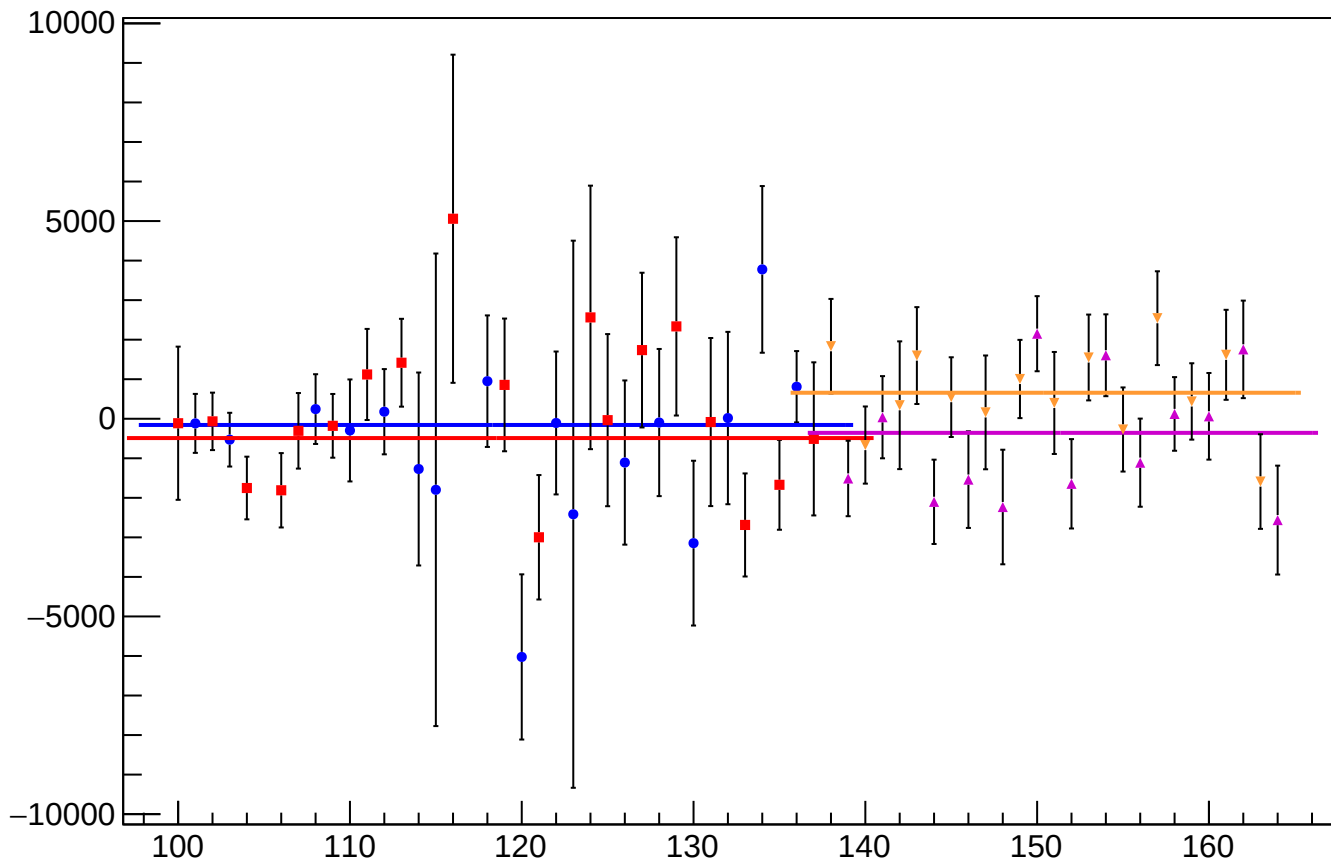
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 988.936+/-0.219  $\chi^2/\text{NDF}$ : 219031.0/12

Out: 995.715+/-0.218  $\chi^2/\text{NDF}$ : 213586.4/13

All: 992.331+/-0.155  $\chi^2/\text{NDF}$ : 433098.6/26

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -157.178 $\pm$ 312.499  $\chi^2$ /NDF: 16.2/16

Left Out: 657.770 $\pm$ 303.260  $\chi^2$ /NDF:12.0/13

Right Out: -488.583 $\pm$ 282.758  $\chi^2$ /NDF: 22.6/18

Left In: -356.544 $\pm$ 303.586  $\chi^2$ /NDF:25.1/12

Left: 151.158 $\pm$ 214.552  $\chi^2$ /NDF: 42.7/26

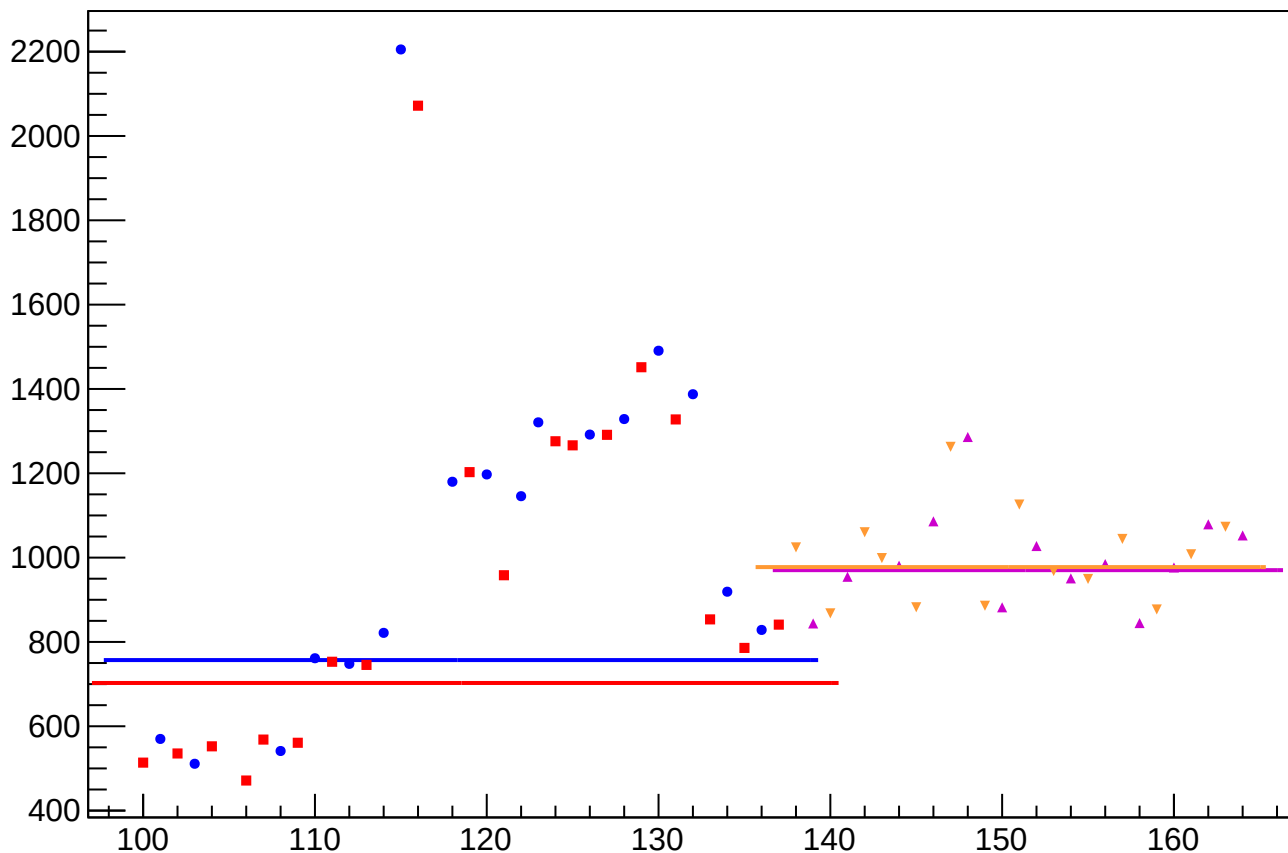
Right: -339.397 $\pm$ 209.669  $\chi^2$ /NDF: 39.5/35

In: -259.745 $\pm$ 217.751  $\chi^2$ /NDF:41.6/29

Out: 44.538 $\pm$ 206.809  $\chi^2$ /NDF:42.3/32

All: -99.766 $\pm$ 149.955  $\chi^2$ /NDF: 84.9/62

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.985 $\pm$ 0.221  $\chi^2$ /NDF: 1711285.9/16

Left Out: 977.497 $\pm$ 0.214  $\chi^2$ /NDF: 218002.9/13

Right Out: 702.656 $\pm$ 0.200  $\chi^2$ /NDF: 1689579.7/18

Left In: 970.269 $\pm$ 0.215  $\chi^2$ /NDF: 231162.0/12

Left: 973.887 $\pm$ 0.152  $\chi^2$ /NDF: 449732.4/26

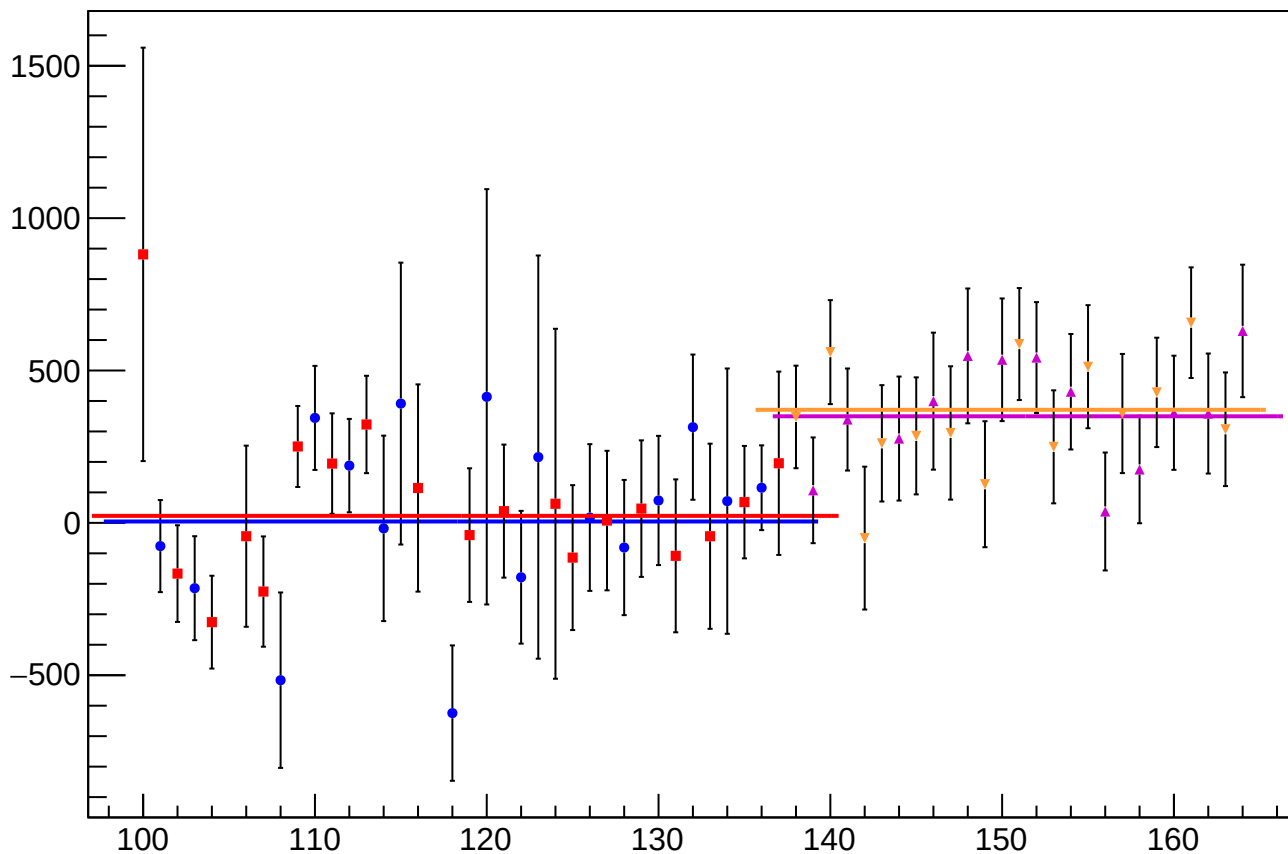
Right: 727.113 $\pm$ 0.148  $\chi^2$ /NDF: 3434103.1/35

In: 866.712 $\pm$ 0.154  $\chi^2$ /NDF: 2421743.3/29

Out: 830.473 $\pm$ 0.146  $\chi^2$ /NDF: 2786341.2/32

All: 847.659 $\pm$ 0.106  $\chi^2$ /NDF: 5237208.1/62

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: 4.533 $\pm$ 52.509  $\chi^2/\text{NDF}$ : 23.1/16

Left Out: 371.026 $\pm$ 50.887  $\chi^2/\text{NDF}$ : 11.5/13

Right Out: 22.985 $\pm$ 47.854  $\chi^2/\text{NDF}$ : 19.0/18

Left In: 349.725 $\pm$ 53.435  $\chi^2/\text{NDF}$ : 10.3/12

Left: 360.896 $\pm$ 36.851  $\chi^2/\text{NDF}$ : 22.0/26

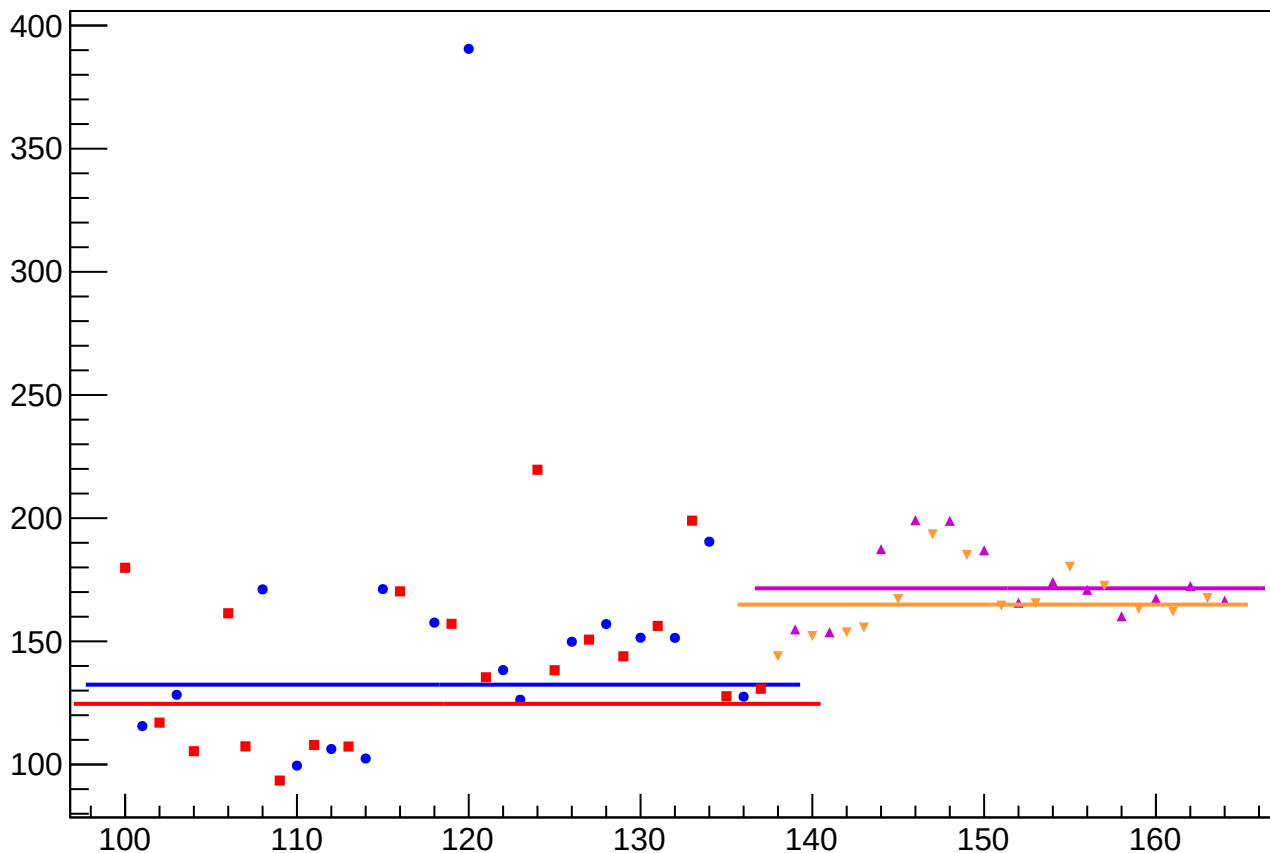
Right: 14.613 $\pm$ 35.370  $\chi^2/\text{NDF}$ : 42.1/35

In: 174.113 $\pm$ 37.453  $\chi^2/\text{NDF}$ : 54.7/29

Out: 186.324 $\pm$ 34.861  $\chi^2/\text{NDF}$ : 55.3/32

All: 180.656 $\pm$ 25.518  $\chi^2/\text{NDF}$ : 110.0/62

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 132.404 $\pm$ 0.037  $\chi^2$ /NDF: 643884.8/16

Left Out: 164.917 $\pm$ 0.036  $\chi^2$ /NDF:120669.6/13

Right Out: 124.620 $\pm$ 0.034  $\chi^2$ /NDF: 592322.9/18

Left In: 171.516 $\pm$ 0.038  $\chi^2$ /NDF:138899.4/12

Left: 168.055 $\pm$ 0.026  $\chi^2$ /NDF: 275561.5/26

Right: 128.152 $\pm$ 0.025  $\chi^2$ /NDF: 1260220.4/35

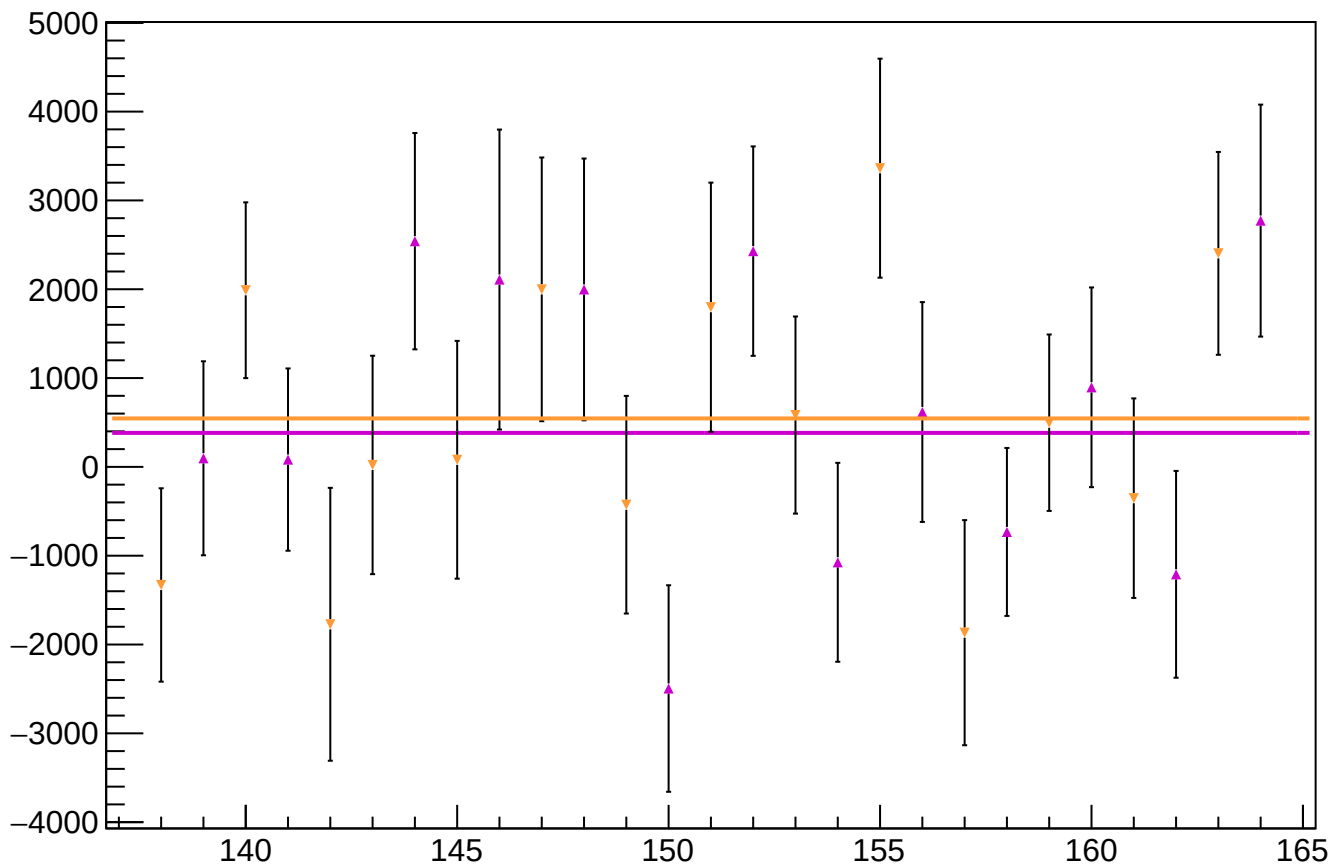
In: 151.618 $\pm$ 0.026  $\chi^2$ /NDF:1327876.8/29

Out: 143.532 $\pm$ 0.025  $\chi^2$ /NDF:1378577.5/32

All: 147.286 $\pm$ 0.018  $\chi^2$ /NDF: 2756408.7/62



asym\_sam6\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 545.534+/-319.401  $\chi^2/\text{NDF}$ :22.2/13

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

Left In: 382.596+/-325.875  $\chi^2/\text{NDF}$ :23.2/12

Left: 465.700+/-228.105  $\chi^2/\text{NDF}$ : 45.6/26

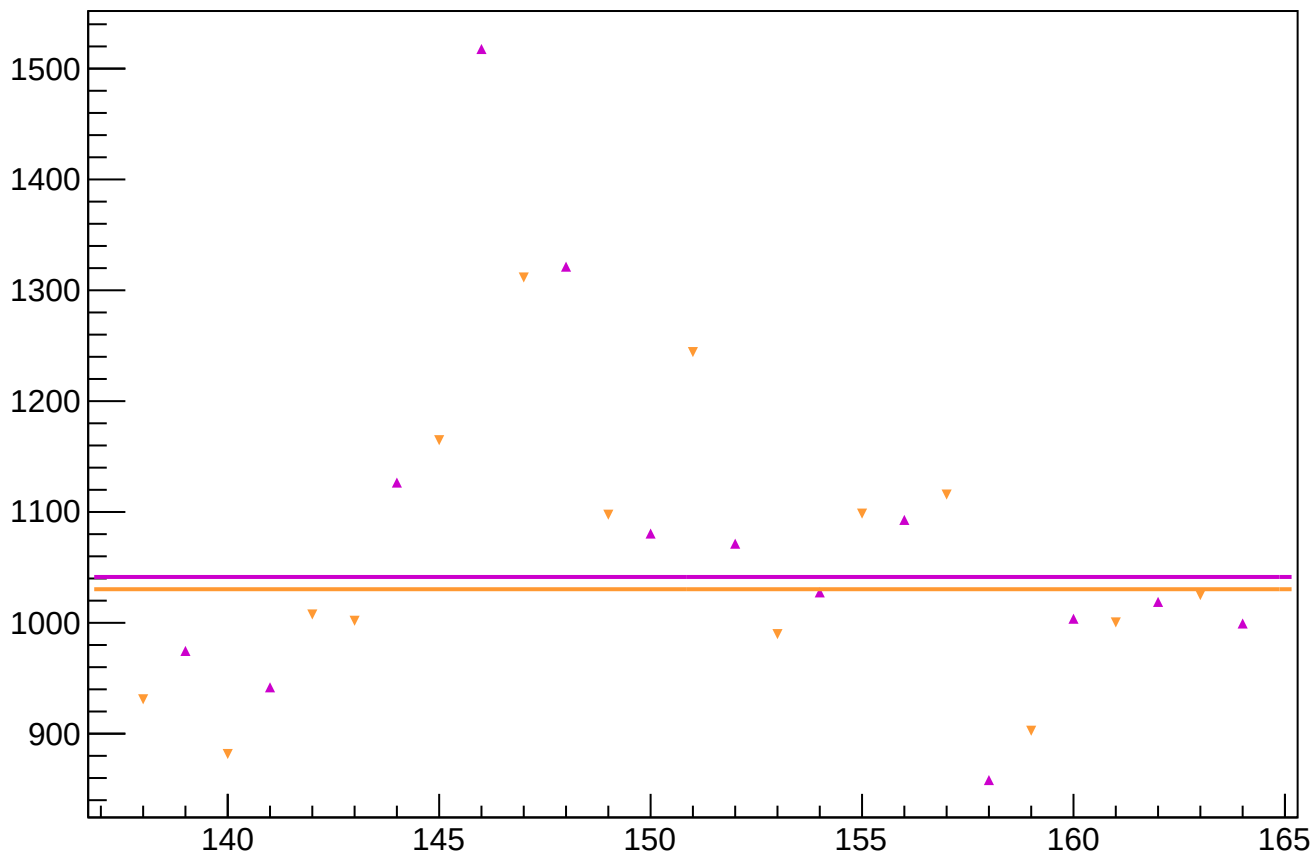
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 382.596+/-325.875  $\chi^2/\text{NDF}$ :23.2/12

Out: 545.534+/-319.401  $\chi^2/\text{NDF}$ :22.2/13

All: 465.700+/-228.105  $\chi^2/\text{NDF}$ : 45.6/26

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1030.323+/-0.226  $\chi^2/\text{NDF}$ :260192.6/13

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

Left In: 1041.382+/-0.230  $\chi^2/\text{NDF}$ :354829.7/12

Left: 1035.741+/-0.161  $\chi^2/\text{NDF}$ : 616197.0/26

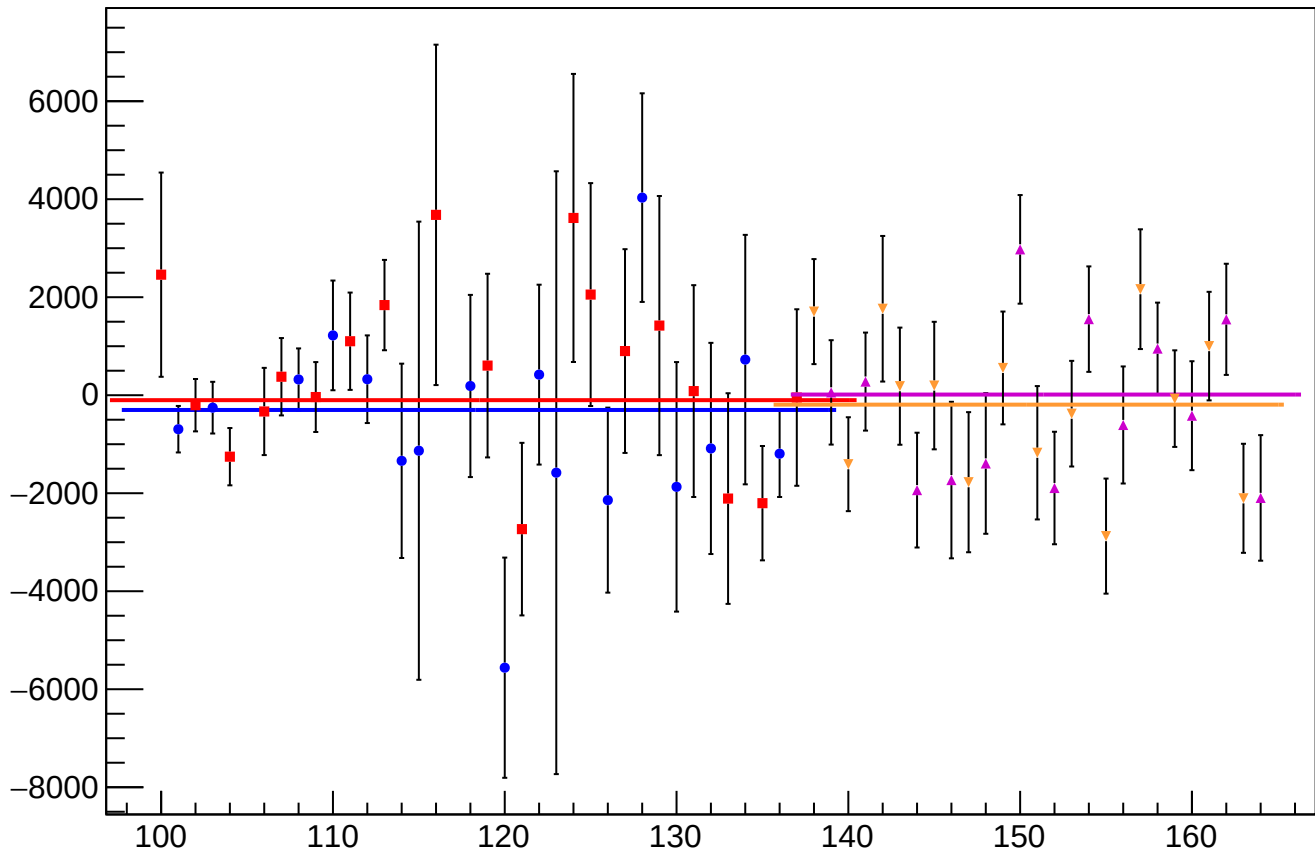
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1041.382+/-0.230  $\chi^2/\text{NDF}$ :354829.7/12

Out: 1030.323+/-0.226  $\chi^2/\text{NDF}$ :260192.6/13

All: 1035.741+/-0.161  $\chi^2/\text{NDF}$ : 616197.0/26

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-301.000 \pm 250.042$   $\chi^2/\text{NDF}$ : 16.8/16

Left Out:  $-192.407 \pm 310.162$   $\chi^2/\text{NDF}$ : 21.9/13

Right Out:  $-100.857 \pm 245.981$   $\chi^2/\text{NDF}$ : 22.5/18

Left In:  $13.399 \pm 316.917$   $\chi^2/\text{NDF}$ : 22.9/12

Left:  $-91.721 \pm 221.667$   $\chi^2/\text{NDF}$ : 45.1/26

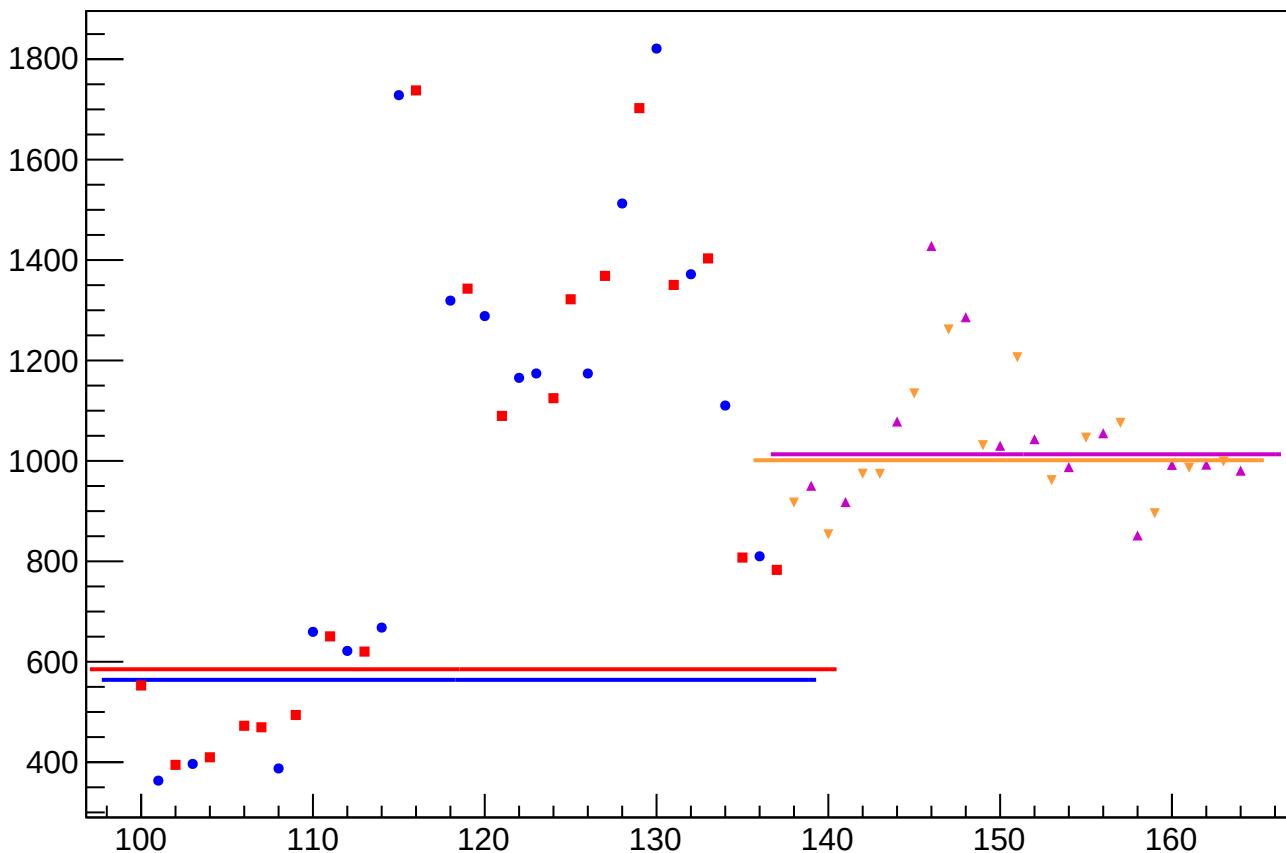
Right:  $-199.290 \pm 175.353$   $\chi^2/\text{NDF}$ : 39.7/35

In:  $-180.376 \pm 196.301$   $\chi^2/\text{NDF}$ : 40.4/29

Out:  $-136.206 \pm 192.728$   $\chi^2/\text{NDF}$ : 44.5/32

All:  $-157.885 \pm 137.525$   $\chi^2/\text{NDF}$ : 84.9/62

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 564.003 $\pm$ 0.177  $\chi^2$ /NDF: 3261491.3/16

Left Out: 1001.283 $\pm$ 0.219  $\chi^2$ /NDF: 231949.3/13

Right Out: 585.070 $\pm$ 0.174  $\chi^2$ /NDF: 2820837.8/18

Left In: 1013.181 $\pm$ 0.224  $\chi^2$ /NDF: 306029.2/12

Left: 1007.103 $\pm$ 0.157  $\chi^2$ /NDF: 539418.4/26

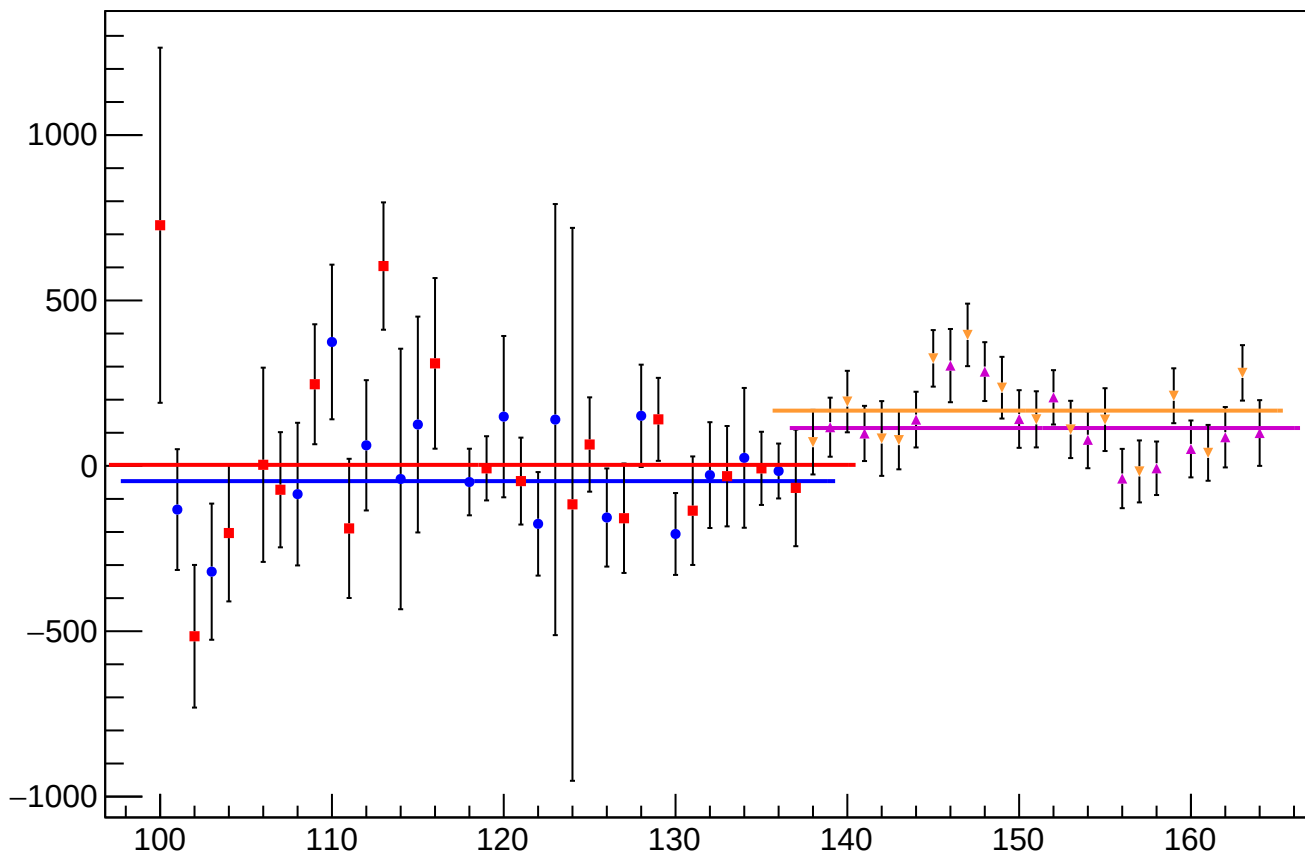
Right: 574.709 $\pm$ 0.124  $\chi^2$ /NDF: 6089543.5/35

In: 736.337 $\pm$ 0.139  $\chi^2$ /NDF: 6043752.6/29

Out: 745.775 $\pm$ 0.136  $\chi^2$ /NDF: 5263710.5/32

All: 741.143 $\pm$ 0.097  $\chi^2$ /NDF: 11309817.0/62

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -46.211 $\pm$ 39.137  $\chi^2/\text{NDF}$ : 11.3/16

Left Out: 166.937 $\pm$ 24.143  $\chi^2/\text{NDF}$ : 21.3/13

Right Out: 2.942 $\pm$ 37.872  $\chi^2/\text{NDF}$ : 26.0/18

Left In: 114.343 $\pm$ 24.494  $\chi^2/\text{NDF}$ : 14.1/12

Left: 141.020 $\pm$ 17.194  $\chi^2/\text{NDF}$ : 37.8/26

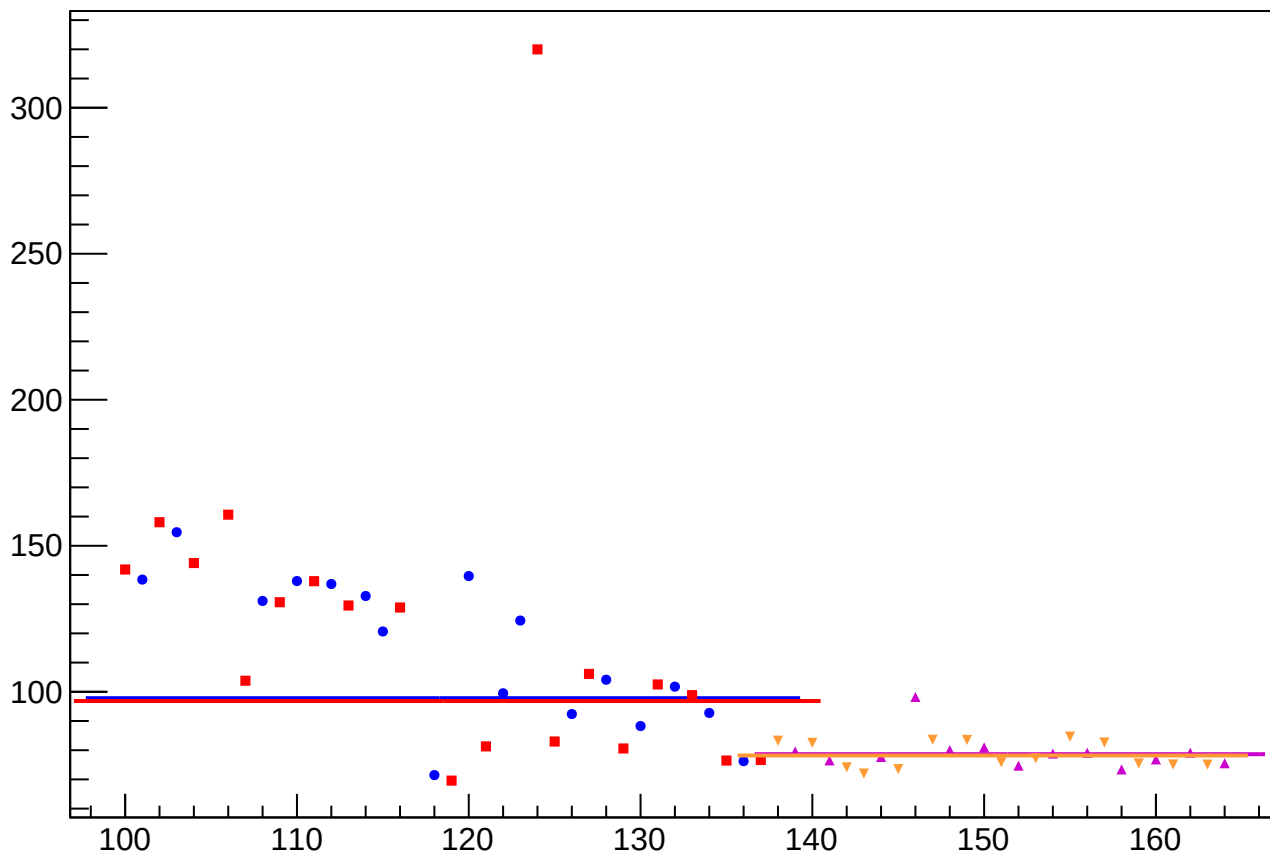
Right: -20.827 $\pm$ 27.216  $\chi^2/\text{NDF}$ : 38.2/35

In: 69.155 $\pm$ 20.763  $\chi^2/\text{NDF}$ : 37.5/29

Out: 119.550 $\pm$ 20.358  $\chi^2/\text{NDF}$ : 60.7/32

All: 94.849 $\pm$ 14.536  $\chi^2/\text{NDF}$ : 101.2/62

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 97.807+/-0.028  $\chi^2/\text{NDF}$ : 816964.4/16

Left Out: 78.189+/-0.017  $\chi^2/\text{NDF}$ : 64164.5/13

Right Out: 96.842+/-0.027  $\chi^2/\text{NDF}$ : 1095471.1/18

Left In: 78.629+/-0.017  $\chi^2/\text{NDF}$ : 82089.4/12

Left: 78.406+/-0.012  $\chi^2/\text{NDF}$ : 146580.5/26

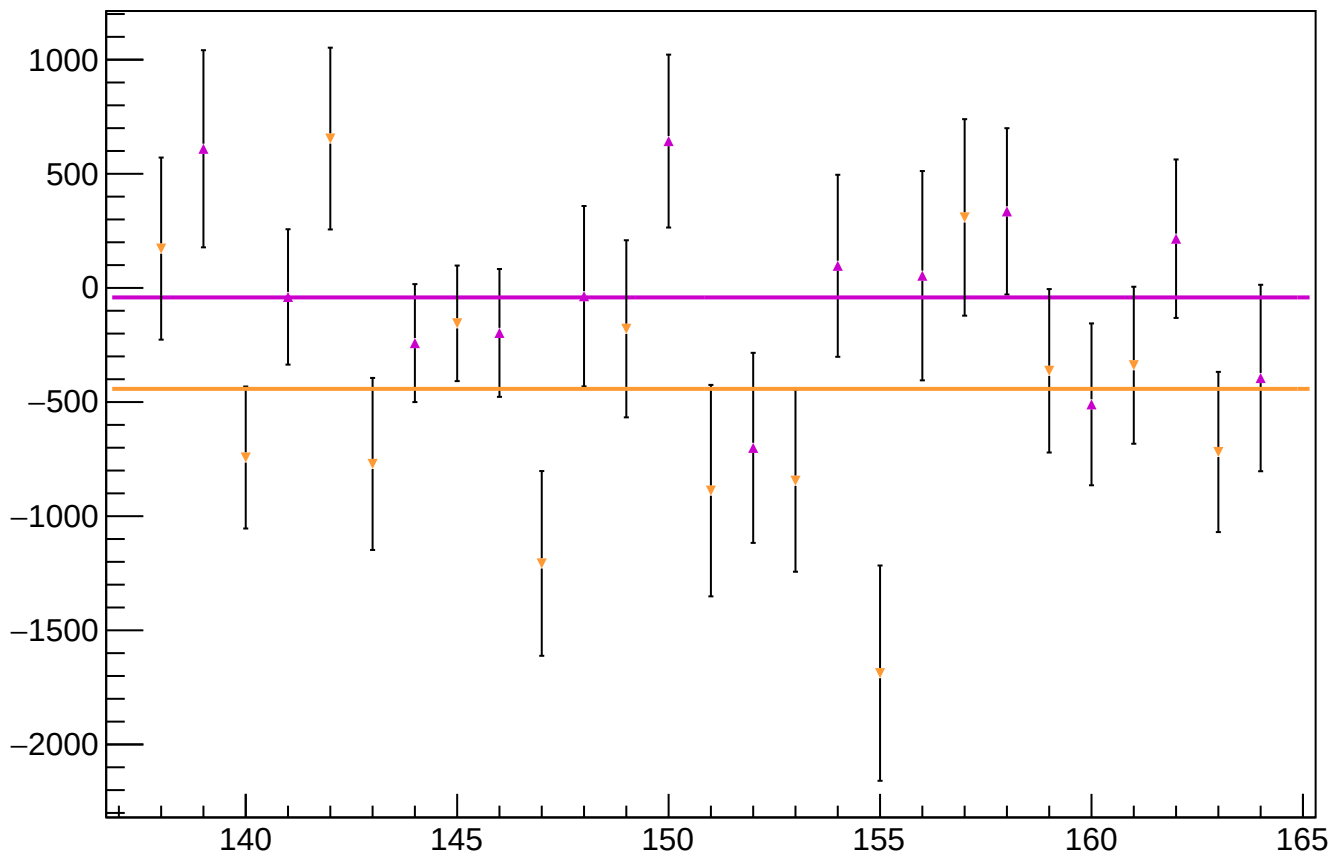
Right: 97.309+/-0.019  $\chi^2/\text{NDF}$ : 1913063.7/35

In: 84.027+/-0.015  $\chi^2/\text{NDF}$ : 1244135.1/29

Out: 83.579+/-0.014  $\chi^2/\text{NDF}$ : 1504584.5/32

All: 83.799+/-0.010  $\chi^2/\text{NDF}$ : 2749193.5/62

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -442.147+/-98.273  $\chi^2/\text{NDF}$ :29.7/13

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

Left In: -41.559+/-97.857  $\chi^2/\text{NDF}$ :13.2/12

Left: -241.002+/-69.342  $\chi^2/\text{NDF}$ : 51.3/26

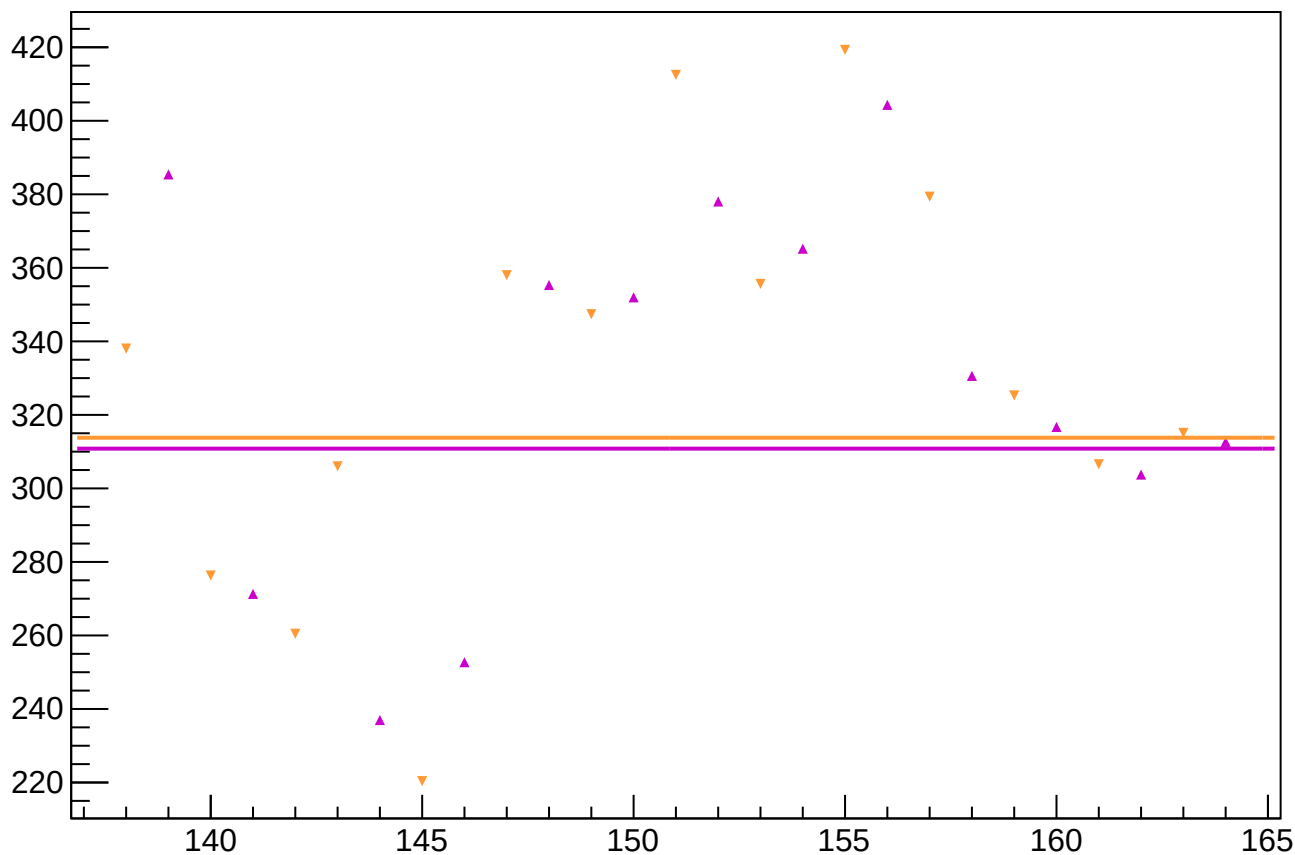
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -41.559+/-97.857  $\chi^2/\text{NDF}$ :13.2/12

Out: -442.147+/-98.273  $\chi^2/\text{NDF}$ :29.7/13

All: -241.002+/-69.342  $\chi^2/\text{NDF}$ : 51.3/26

# asym\_sam7\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 313.790+/-0.069  $\chi^2/\text{NDF}$ :646730.0/13

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

Left In: 310.819+/-0.069  $\chi^2/\text{NDF}$ :573368.9/12

Left: 312.298+/-0.049  $\chi^2/\text{NDF}$ : 1221016.8/26

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

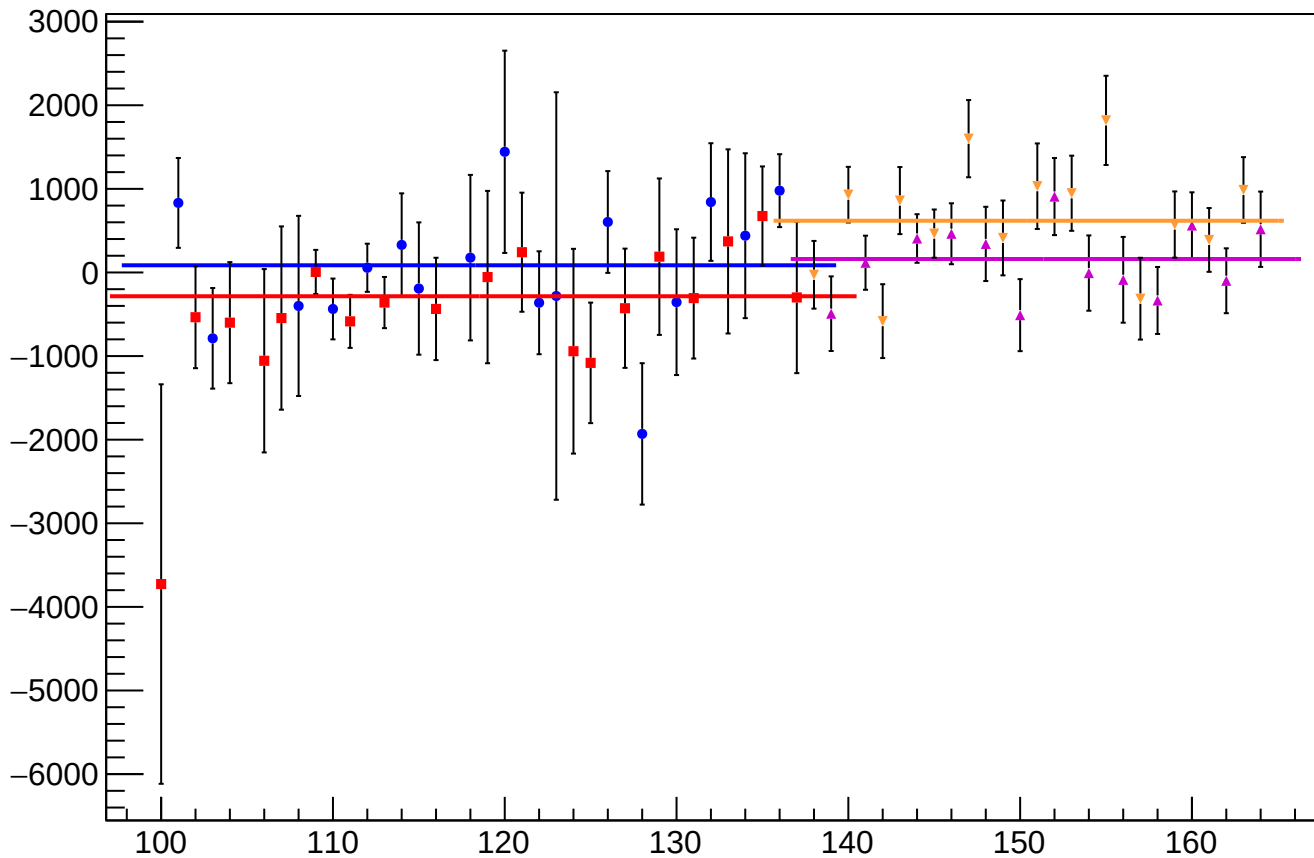
In: 310.819+/-0.069  $\chi^2/\text{NDF}$ :573368.9/12

Out: 313.790+/-0.069  $\chi^2/\text{NDF}$ :646730.0/13

All: 312.298+/-0.049  $\chi^2/\text{NDF}$ : 1221016.8/26



# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 85.810+/-142.601  $\chi^2/\text{NDF}$ : 20.6/16

Left Out: 618.670+/-108.865  $\chi^2/\text{NDF}$ : 27.3/13

Right Out: -284.456+/-129.599  $\chi^2/\text{NDF}$ : 10.6/18

Left In: 160.761+/-110.458  $\chi^2/\text{NDF}$ : 12.8/12

Left: 393.041+/-77.536  $\chi^2/\text{NDF}$ : 48.8/26

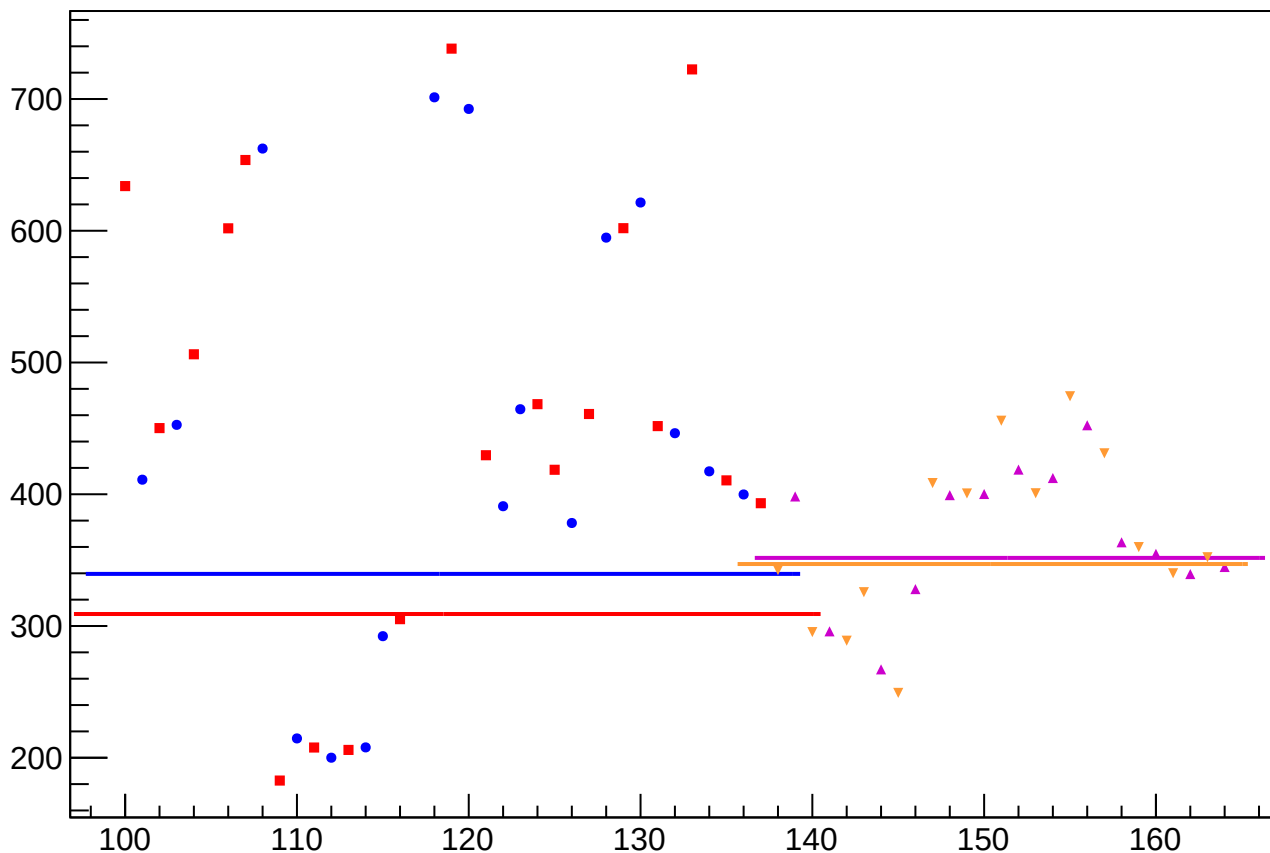
Right: -116.969+/-95.908  $\chi^2/\text{NDF}$ : 34.9/35

In: 132.655+/-87.325  $\chi^2/\text{NDF}$ : 33.5/29

Out: 245.043+/-83.358  $\chi^2/\text{NDF}$ : 66.4/32

All: 191.459+/-60.296  $\chi^2/\text{NDF}$ : 100.8/62

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 339.553 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 2042244.1/16

Left Out: 347.047 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 678097.3/13

Right Out: 309.105 $\pm$ 0.092  $\chi^2/\text{NDF}$ : 2730308.7/18

Left In: 351.694 $\pm$ 0.078  $\chi^2/\text{NDF}$ : 467310.3/12

Left: 349.337 $\pm$ 0.055  $\chi^2/\text{NDF}$ : 1147203.2/26

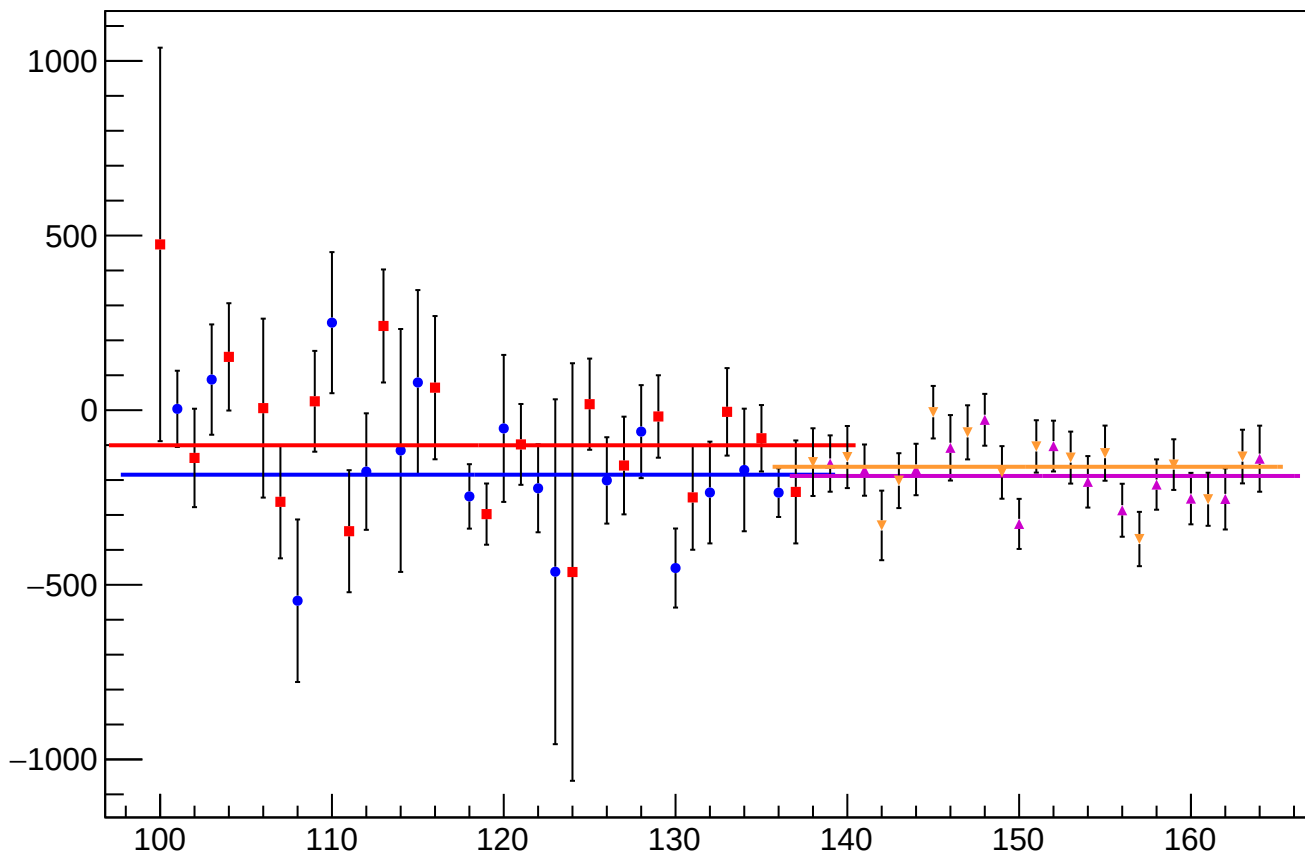
Right: 322.878 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 4822487.1/35

In: 347.141 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 2518615.9/29

Out: 331.350 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 3508909.6/32

All: 338.879 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 6061743.2/62

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -184.736 $\pm$ 33.009  $\chi^2$ /NDF: 22.4/16

Left Out: -162.062 $\pm$ 21.162  $\chi^2$ /NDF:18.9/13

Right Out: -100.491 $\pm$ 32.512  $\chi^2$ /NDF: 22.2/18

Left In: -188.343 $\pm$ 21.419  $\chi^2$ /NDF:14.3/12

Left: -175.044 $\pm$ 15.054  $\chi^2$ /NDF: 33.9/26

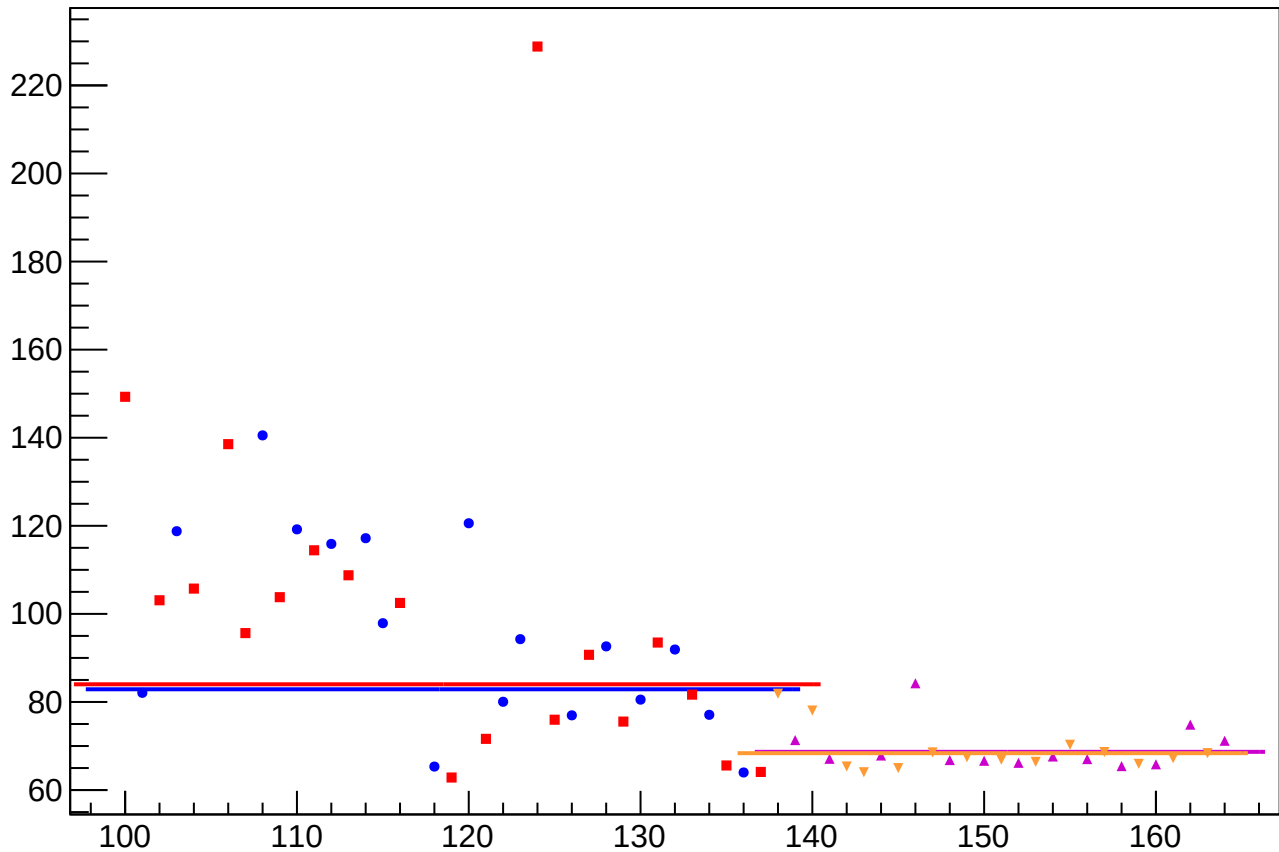
Right: -141.974 $\pm$ 23.163  $\chi^2$ /NDF: 47.9/35

In: -187.274 $\pm$ 17.968  $\chi^2$ /NDF:36.7/29

Out: -143.739 $\pm$ 17.736  $\chi^2$ /NDF:43.6/32

All: -165.224 $\pm$ 12.622  $\chi^2$ /NDF: 83.3/62

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 82.880 $\pm$ 0.023  $\chi^2$ /NDF: 706417.7/16

Left Out: 68.372 $\pm$ 0.015  $\chi^2$ /NDF:80884.1/13

Right Out: 84.013 $\pm$ 0.023  $\chi^2$ /NDF: 765400.6/18

Left In: 68.676 $\pm$ 0.015  $\chi^2$ /NDF:83484.1/12

Left: 68.522 $\pm$ 0.011  $\chi^2$ /NDF: 164572.2/26

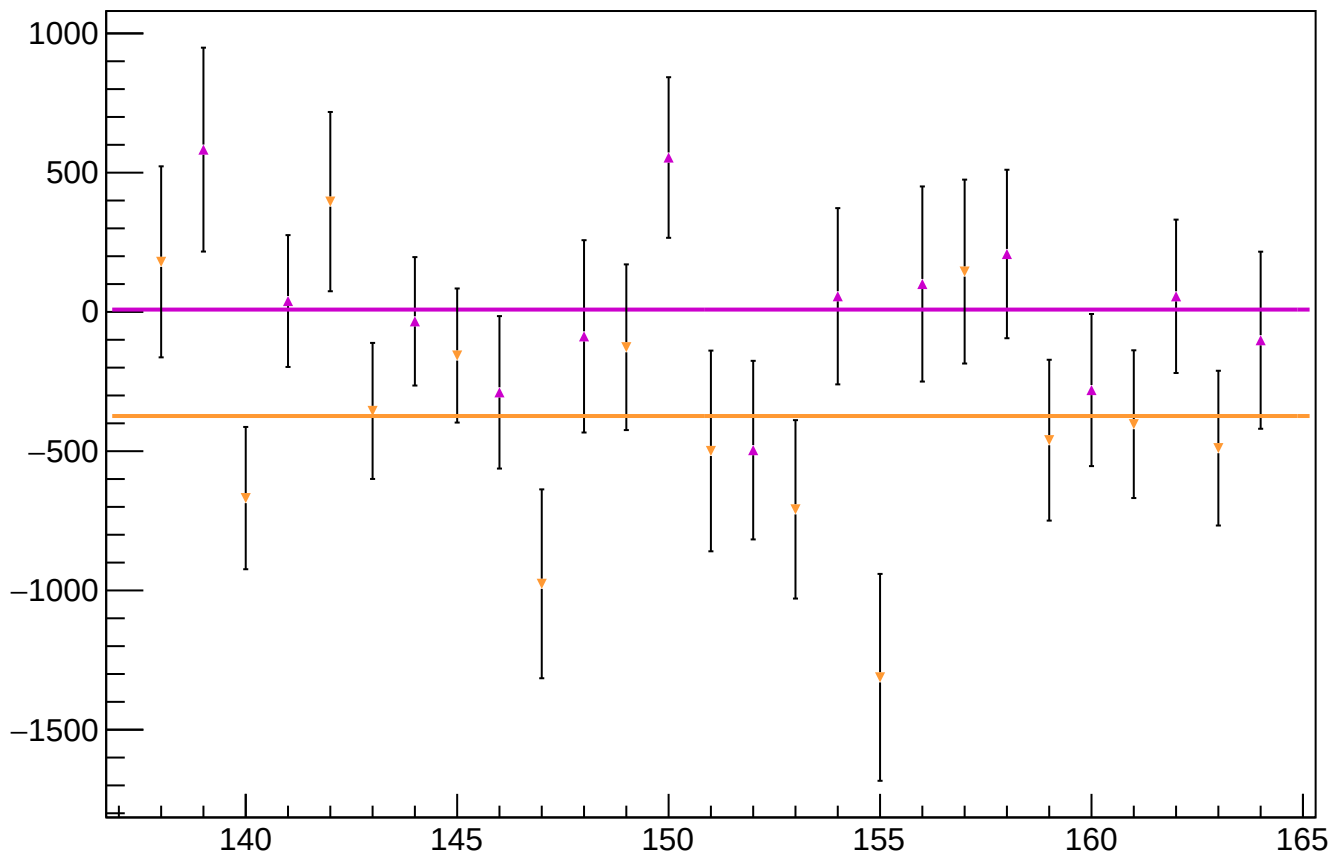
Right: 83.455 $\pm$ 0.016  $\chi^2$ /NDF: 1473013.4/35

In: 72.884 $\pm$ 0.013  $\chi^2$ /NDF:1050523.7/29

Out: 73.027 $\pm$ 0.013  $\chi^2$ /NDF:1171432.1/32

All: 72.956 $\pm$ 0.009  $\chi^2$ /NDF: 2222019.1/62

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -373.734+/-78.922  $\chi^2/\text{NDF}$ :24.7/13

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

Left In: 8.414+/-80.797  $\chi^2/\text{NDF}$ :11.6/12

Left: -187.145+/-56.458  $\chi^2/\text{NDF}$ : 47.7/26

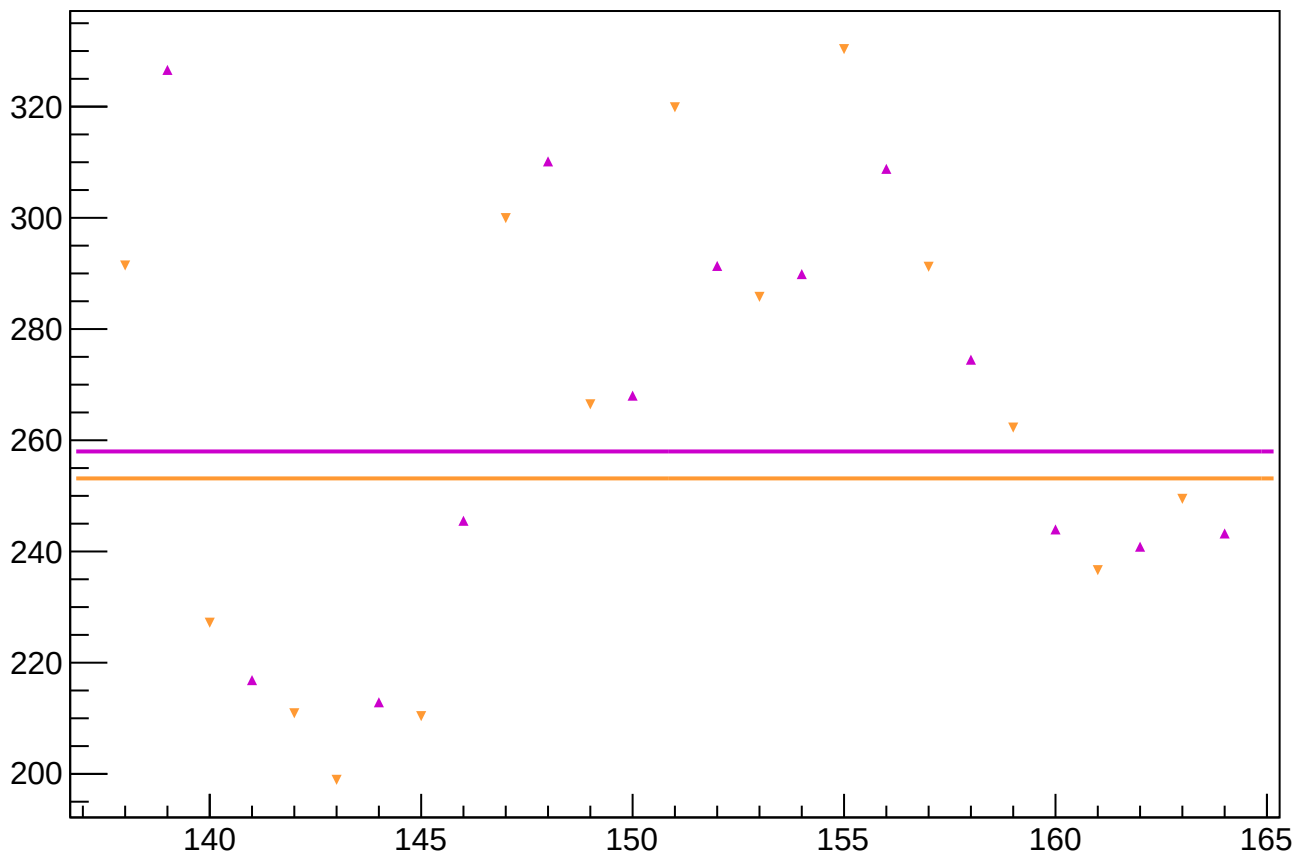
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8.414+/-80.797  $\chi^2/\text{NDF}$ :11.6/12

Out: -373.734+/-78.922  $\chi^2/\text{NDF}$ :24.7/13

All: -187.145+/-56.458  $\chi^2/\text{NDF}$ : 47.7/26

asym\_sam8\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 253.139+/-0.056  $\chi^2/\text{NDF}$ :496264.1/13

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

Left In: 257.988+/-0.057  $\chi^2/\text{NDF}$ :366778.0/12

Left: 255.507+/-0.040  $\chi^2/\text{NDF}$ : 866728.1/26

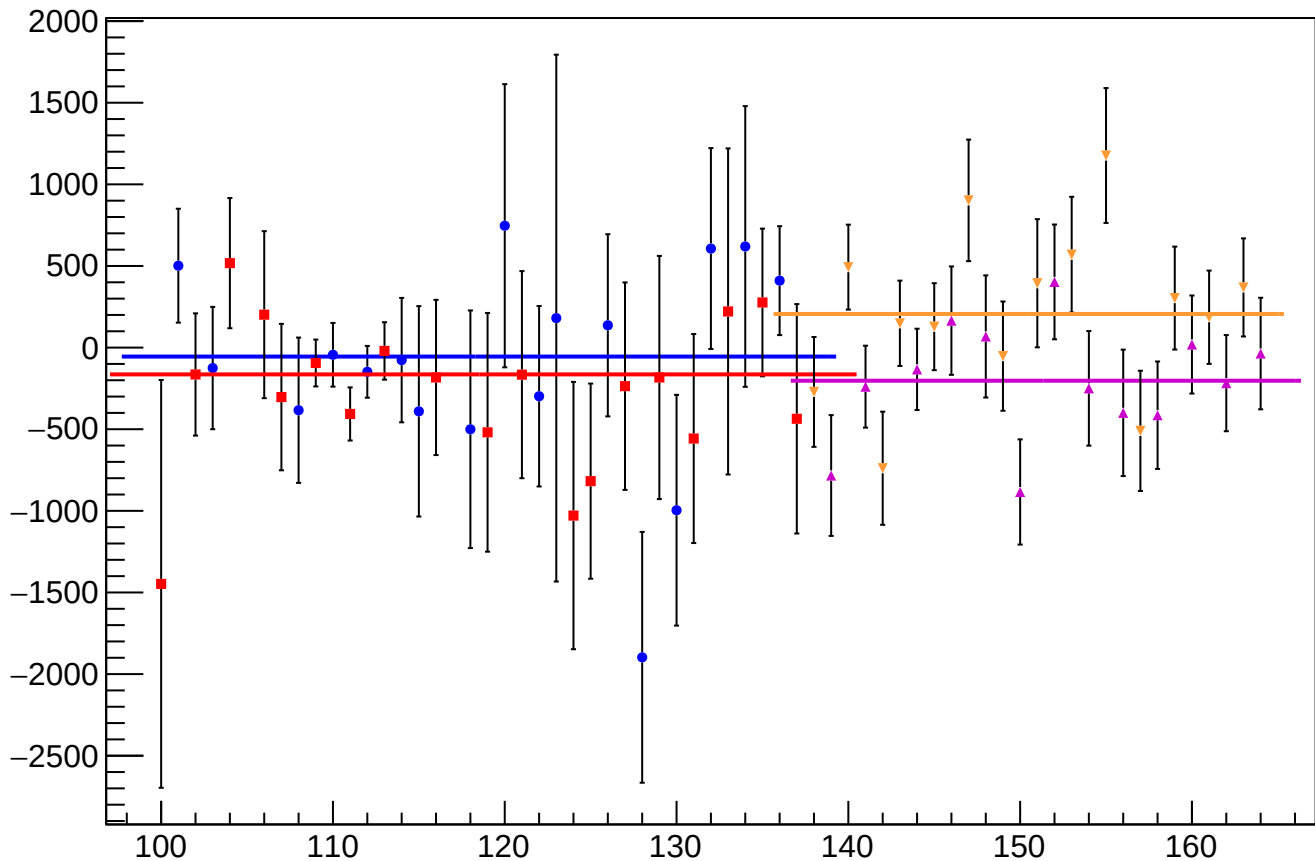
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 257.988+/-0.057  $\chi^2/\text{NDF}$ :366778.0/12

Out: 253.139+/-0.056  $\chi^2/\text{NDF}$ :496264.1/13

All: 255.507+/-0.040  $\chi^2/\text{NDF}$ : 866728.1/26

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -54.933+/-90.355  $\chi^2/\text{NDF}$ : 16.5/16

Left Out: 205.877+/-85.161  $\chi^2/\text{NDF}$ :25.9/13

Right Out: -164.141+/-76.903  $\chi^2/\text{NDF}$ : 11.9/18

Left In: -202.998+/-88.236  $\chi^2/\text{NDF}$ :13.2/12

Left: 8.687+/-61.276  $\chi^2/\text{NDF}$ : 50.2/26

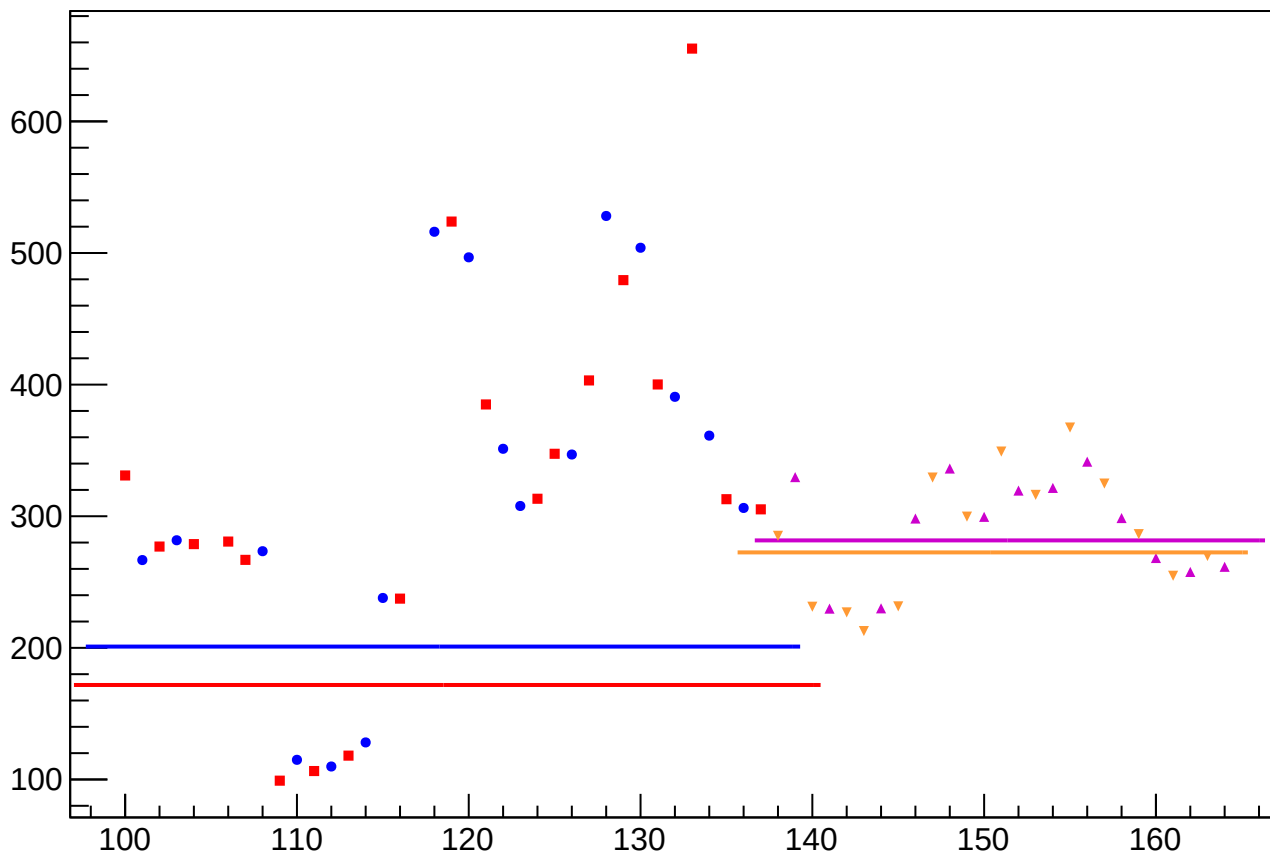
Right: -118.264+/-58.563  $\chi^2/\text{NDF}$ : 29.3/35

In: -130.722+/-63.128  $\chi^2/\text{NDF}$ :31.2/29

Out: 2.061+/-57.076  $\chi^2/\text{NDF}$ :48.2/32

All: -57.661+/-42.337  $\chi^2/\text{NDF}$ : 81.7/62

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In:  $200.971 \pm 0.064$   $\chi^2/\text{NDF}$ : 3436154.0/16

Left Out:  $272.522 \pm 0.060$   $\chi^2/\text{NDF}$ : 563814.9/13

Right Out:  $171.794 \pm 0.054$   $\chi^2/\text{NDF}$ : 4092634.7/18

Left In:  $281.643 \pm 0.062$   $\chi^2/\text{NDF}$ : 384929.8/12

Left:  $276.921 \pm 0.043$   $\chi^2/\text{NDF}$ : 959809.0/26

Right:  $184.051 \pm 0.041$   $\chi^2/\text{NDF}$ : 7649725.9/35

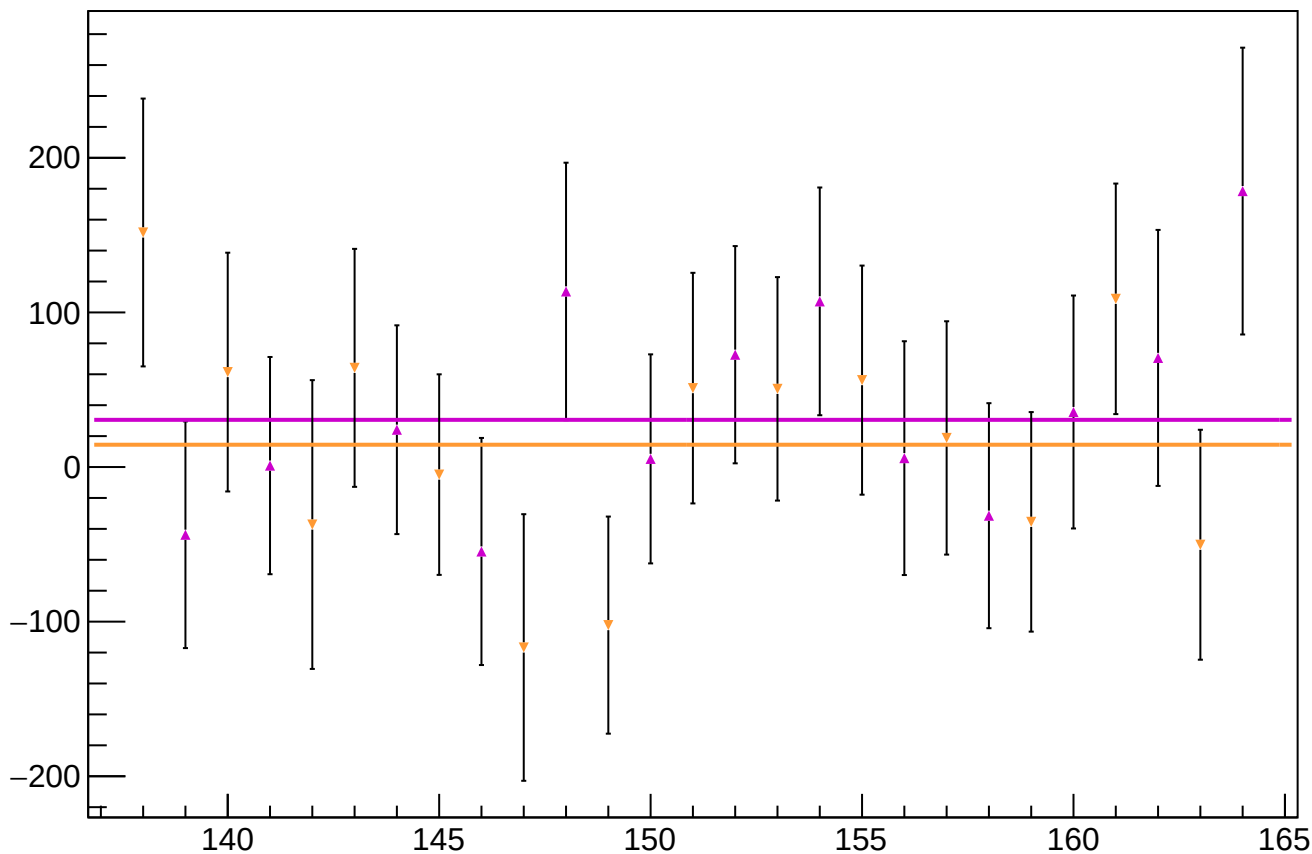
In:  $242.264 \pm 0.045$   $\chi^2/\text{NDF}$ : 4637152.8/29

Out:  $217.038 \pm 0.040$   $\chi^2/\text{NDF}$ : 6197643.5/32

All:  $228.384 \pm 0.030$   $\chi^2/\text{NDF}$ : 11010513.1/62



dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 14.432 $\pm$ 20.213  $\chi^2$ /NDF:12.4/13

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

Left In: 30.527 $\pm$ 20.649  $\chi^2$ /NDF:8.8/12

Left: 22.308 $\pm$ 14.444  $\chi^2$ /NDF: 21.5/26

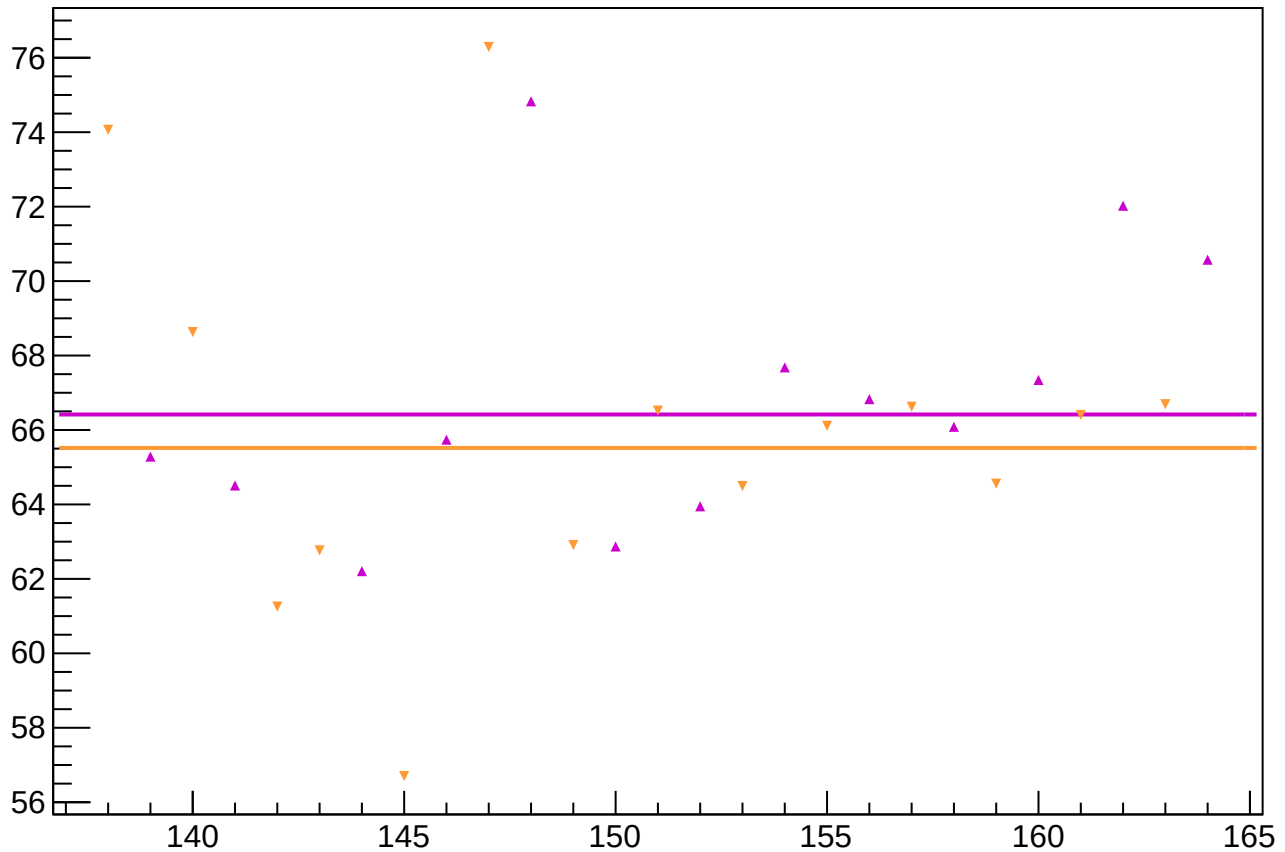
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 30.527 $\pm$ 20.649  $\chi^2$ /NDF:8.8/12

Out: 14.432 $\pm$ 20.213  $\chi^2$ /NDF:12.4/13

All: 22.308 $\pm$ 14.444  $\chi^2$ /NDF: 21.5/26

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: 65.519+/-0.014  $\chi^2/\text{NDF}$ :102831.6/13

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

Left In: 66.417+/-0.015  $\chi^2/\text{NDF}$ :52471.3/12

Left: 65.958+/-0.010  $\chi^2/\text{NDF}$ : 157236.1/26

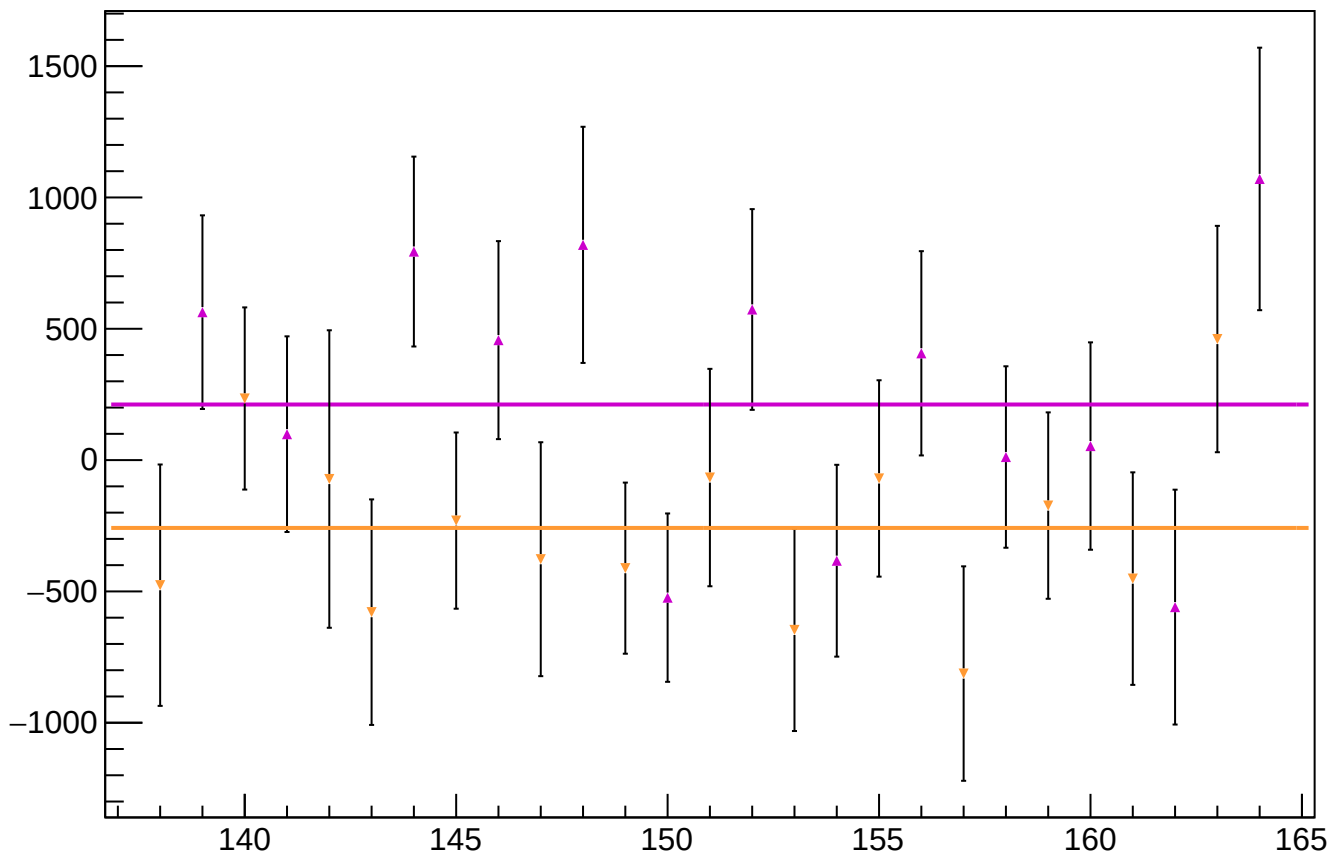
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 66.417+/-0.015  $\chi^2/\text{NDF}$ :52471.3/12

Out: 65.519+/-0.014  $\chi^2/\text{NDF}$ :102831.6/13

All: 65.958+/-0.010  $\chi^2/\text{NDF}$ : 157236.1/26

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: -258.276+/-105.341  $\chi^2/\text{NDF}$ : 9.6/13

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

Left In: 211.677+/-106.182  $\chi^2/\text{NDF}$ : 21.3/12

Left: -25.167+/-74.783  $\chi^2/\text{NDF}$ : 40.8/26

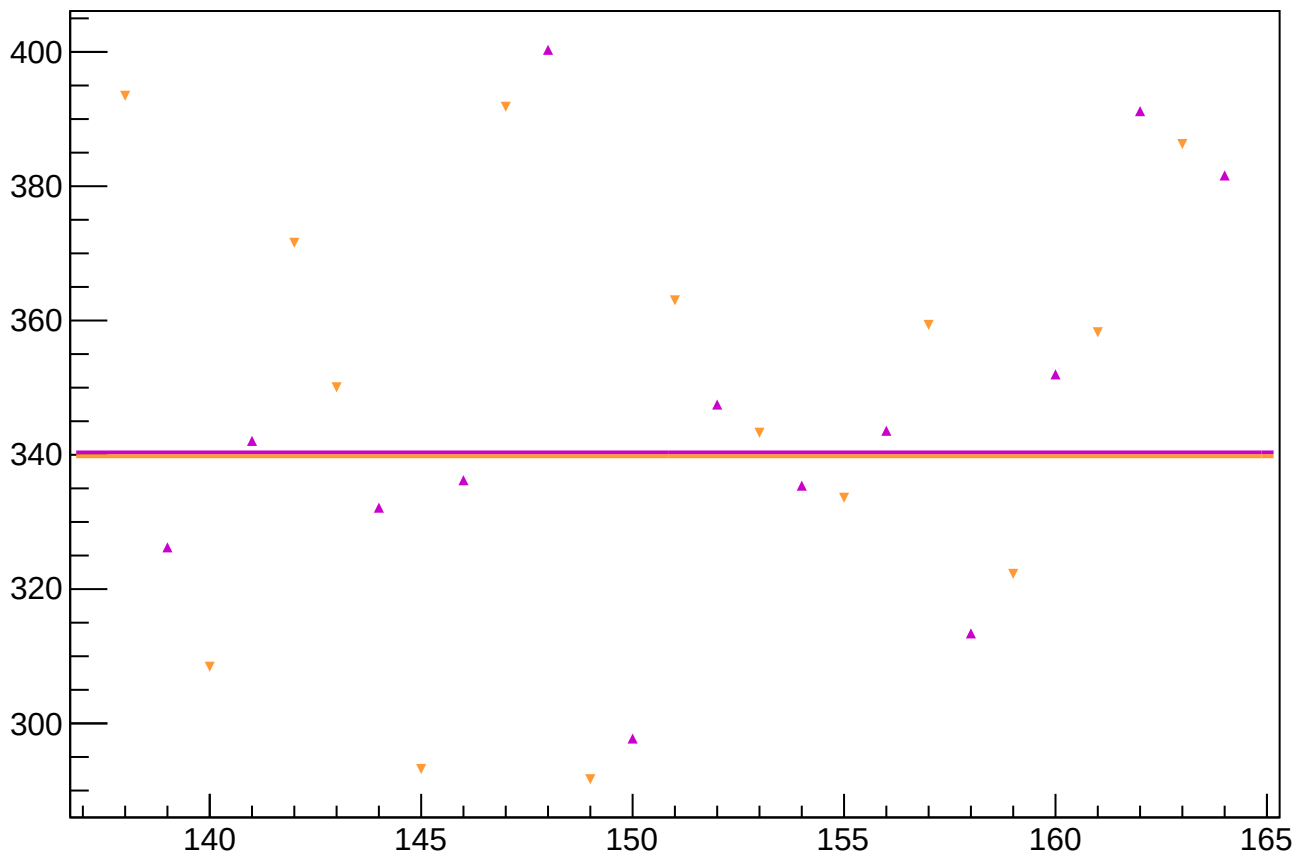
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 211.677+/-106.182  $\chi^2/\text{NDF}$ : 21.3/12

Out: -258.276+/-105.341  $\chi^2/\text{NDF}$ : 9.6/13

All: -25.167+/-74.783  $\chi^2/\text{NDF}$ : 40.8/26

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: 339.785+/-0.074  $\chi^2/\text{NDF}$ :204464.4/13

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

Left In: 340.349+/-0.075  $\chi^2/\text{NDF}$ :129757.9/12

Left: 340.065+/-0.053  $\chi^2/\text{NDF}$ : 334250.8/26

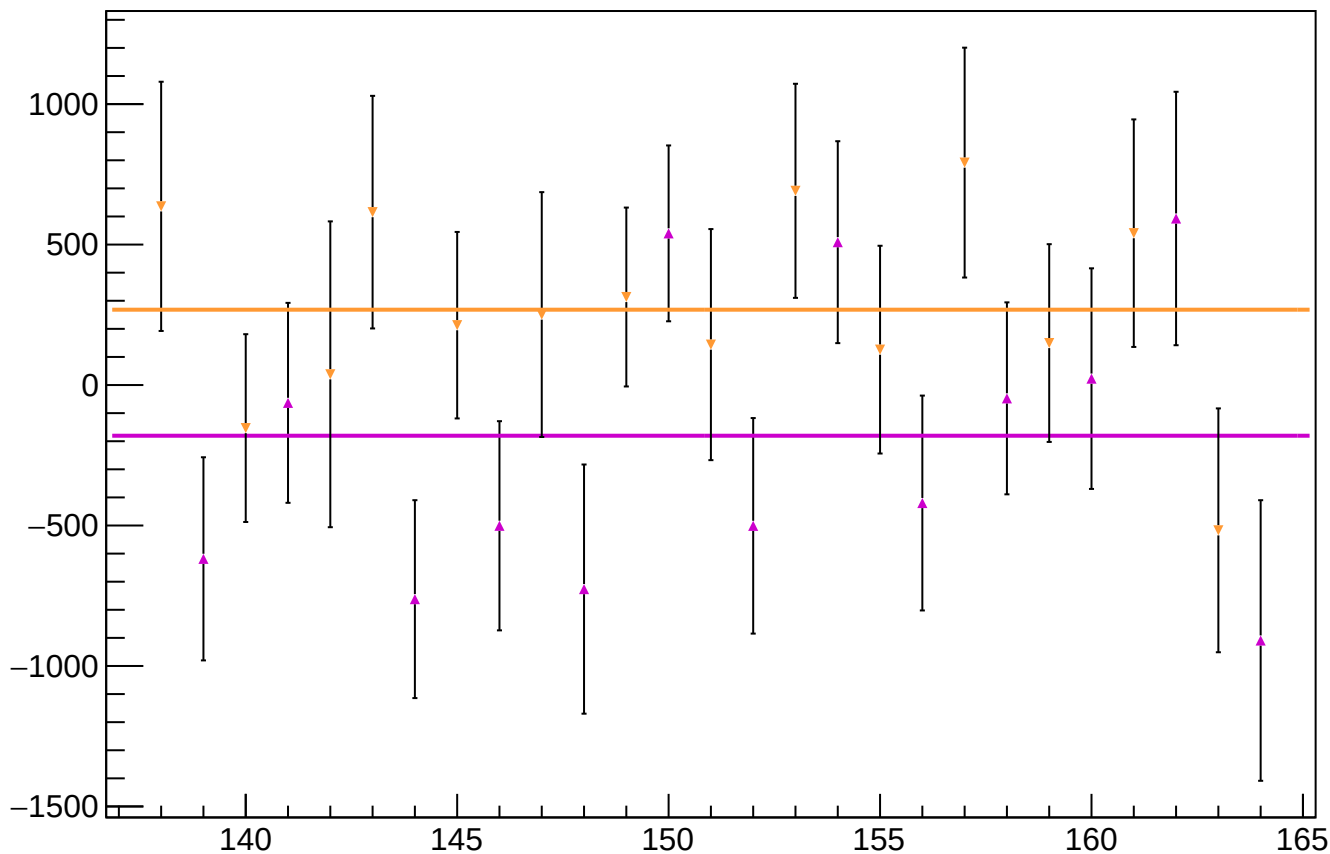
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 340.349+/-0.075  $\chi^2/\text{NDF}$ :129757.9/12

Out: 339.785+/-0.074  $\chi^2/\text{NDF}$ :204464.4/13

All: 340.065+/-0.053  $\chi^2/\text{NDF}$ : 334250.8/26

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 268.203+/-103.684  $\chi^2/\text{NDF}$ :10.2/13

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

Left In: -180.404+/-104.559  $\chi^2/\text{NDF}$ :22.1/12

Left: 45.785+/-73.623  $\chi^2/\text{NDF}$ : 41.6/26

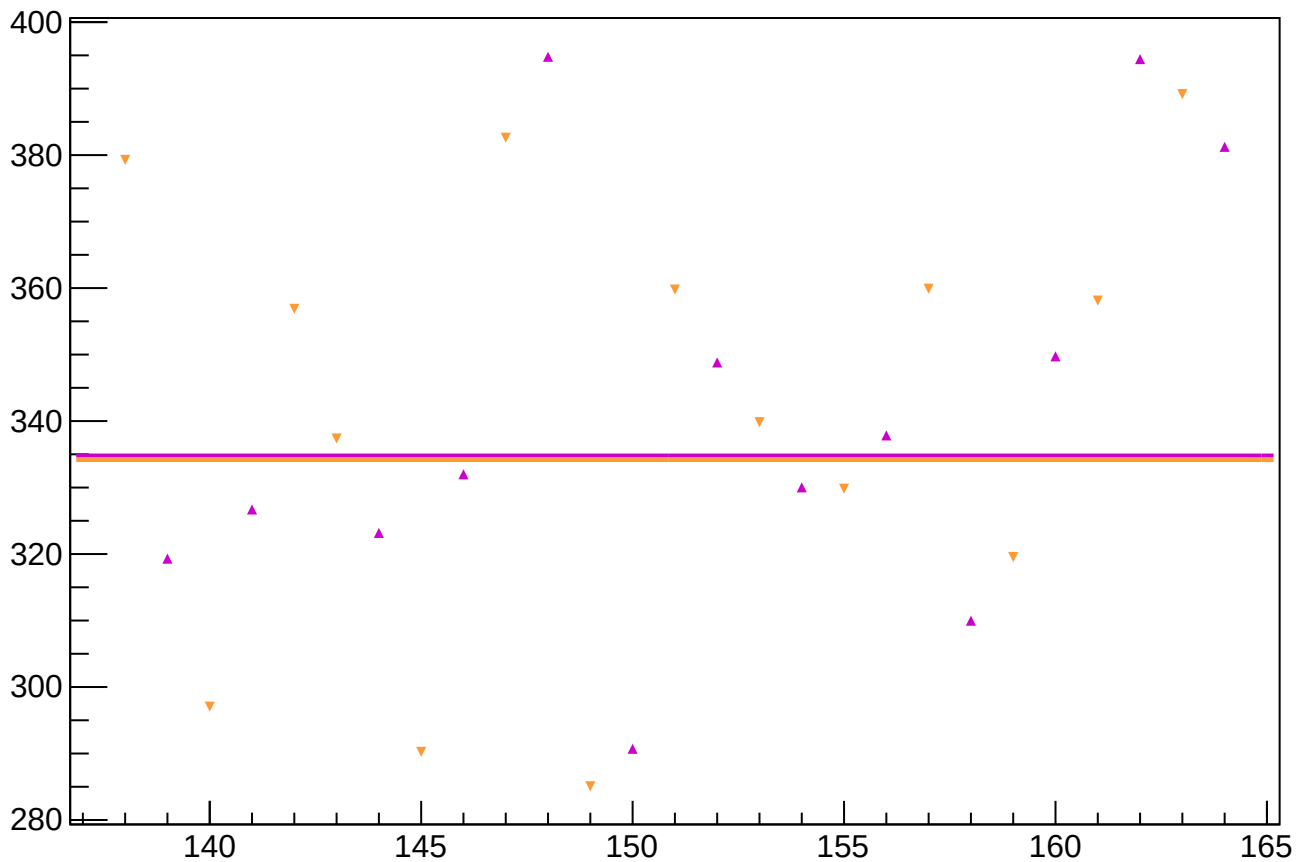
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -180.404+/-104.559  $\chi^2/\text{NDF}$ :22.1/12

Out: 268.203+/-103.684  $\chi^2/\text{NDF}$ :10.2/13

All: 45.785+/-73.623  $\chi^2/\text{NDF}$ : 41.6/26

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 334.135+/-0.073  $\chi^2/\text{NDF}$ :215197.7/13

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

Left In: 334.816+/-0.074  $\chi^2/\text{NDF}$ :152143.1/12

Left: 334.473+/-0.052  $\chi^2/\text{NDF}$ : 367383.6/26

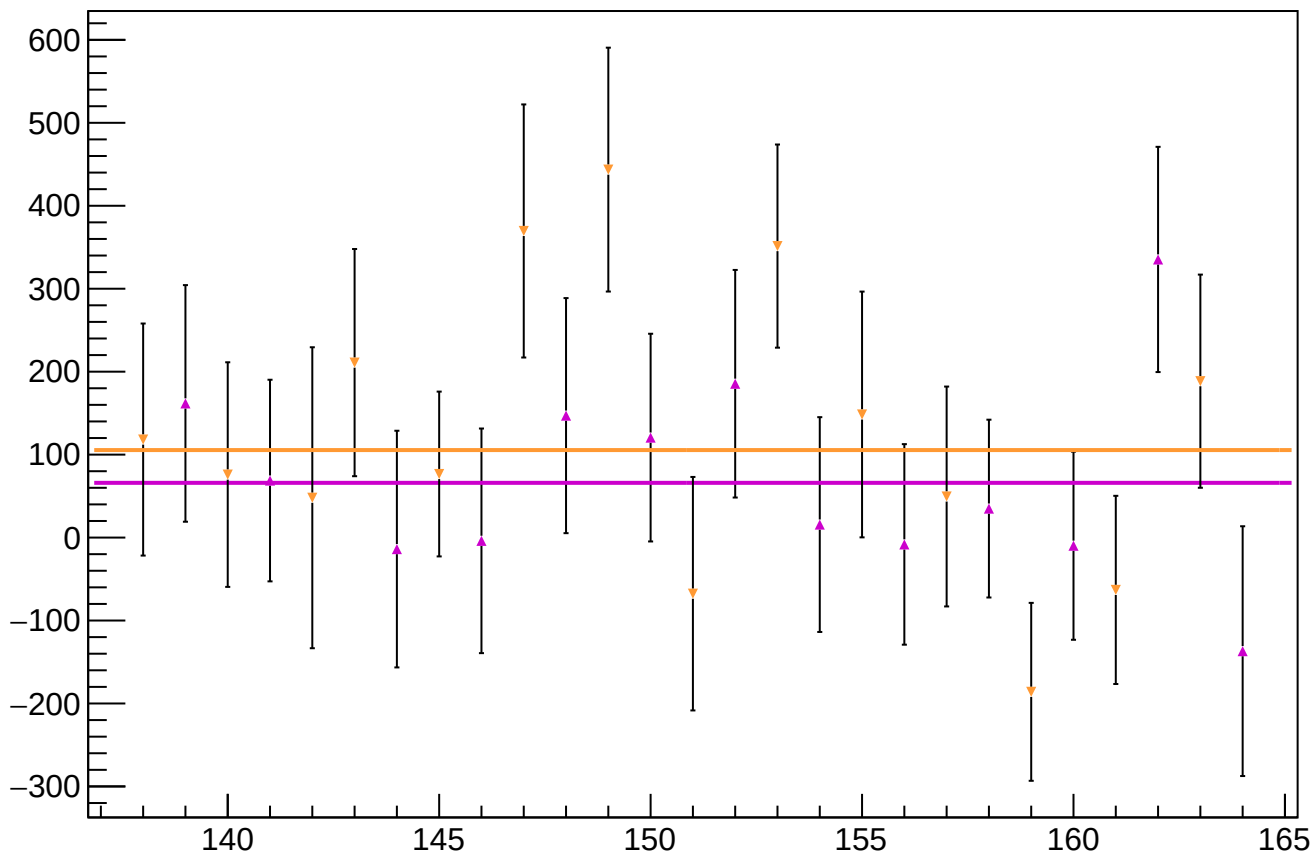
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 334.816+/-0.074  $\chi^2/\text{NDF}$ :152143.1/12

Out: 334.135+/-0.073  $\chi^2/\text{NDF}$ :215197.7/13

All: 334.473+/-0.052  $\chi^2/\text{NDF}$ : 367383.6/26

dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 105.486+/-34.818  $\chi^2/\text{NDF}$ :24.9/13

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

Left In: 65.988+/-35.838  $\chi^2/\text{NDF}$ :9.1/12

Left: 86.307+/-24.973  $\chi^2/\text{NDF}$ : 34.7/26

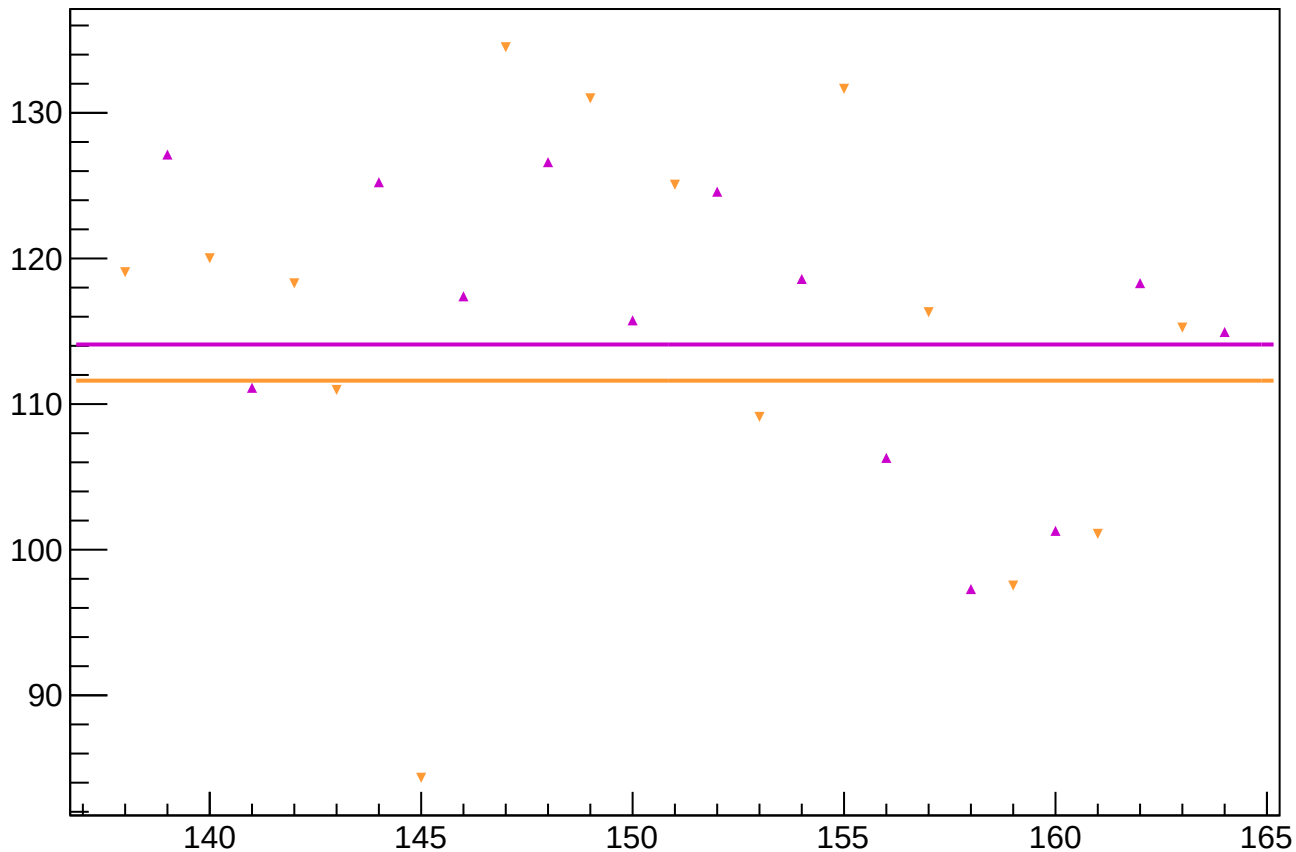
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 65.988+/-35.838  $\chi^2/\text{NDF}$ :9.1/12

Out: 105.486+/-34.818  $\chi^2/\text{NDF}$ :24.9/13

All: 86.307+/-24.973  $\chi^2/\text{NDF}$ : 34.7/26

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: 111.608+/-0.025  $\chi^2/\text{NDF}$ :358206.6/13

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

Left In: 114.093+/-0.025  $\chi^2/\text{NDF}$ :146302.1/12

Left: 112.815+/-0.018  $\chi^2/\text{NDF}$ : 509454.6/26

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

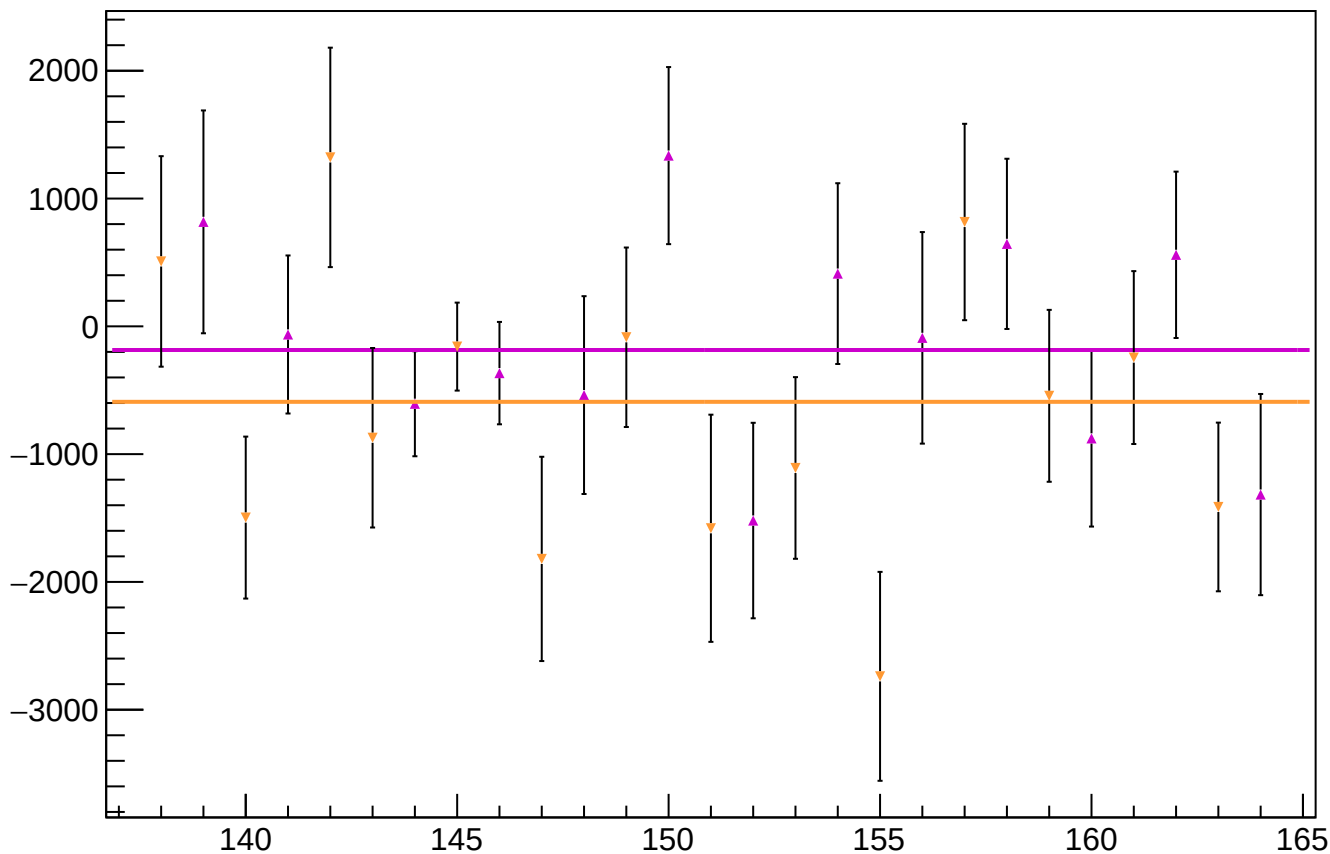
In: 114.093+/-0.025  $\chi^2/\text{NDF}$ :146302.1/12

Out: 111.608+/-0.025  $\chi^2/\text{NDF}$ :358206.6/13

All: 112.815+/-0.018  $\chi^2/\text{NDF}$ : 509454.6/26



asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -590.717+/-175.392  $\chi^2/\text{NDF}$ : 27.3/13

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

Left In: -185.149+/-173.193  $\chi^2/\text{NDF}$ : 17.3/12

Left: -385.374+/-123.236  $\chi^2/\text{NDF}$ : 47.3/26

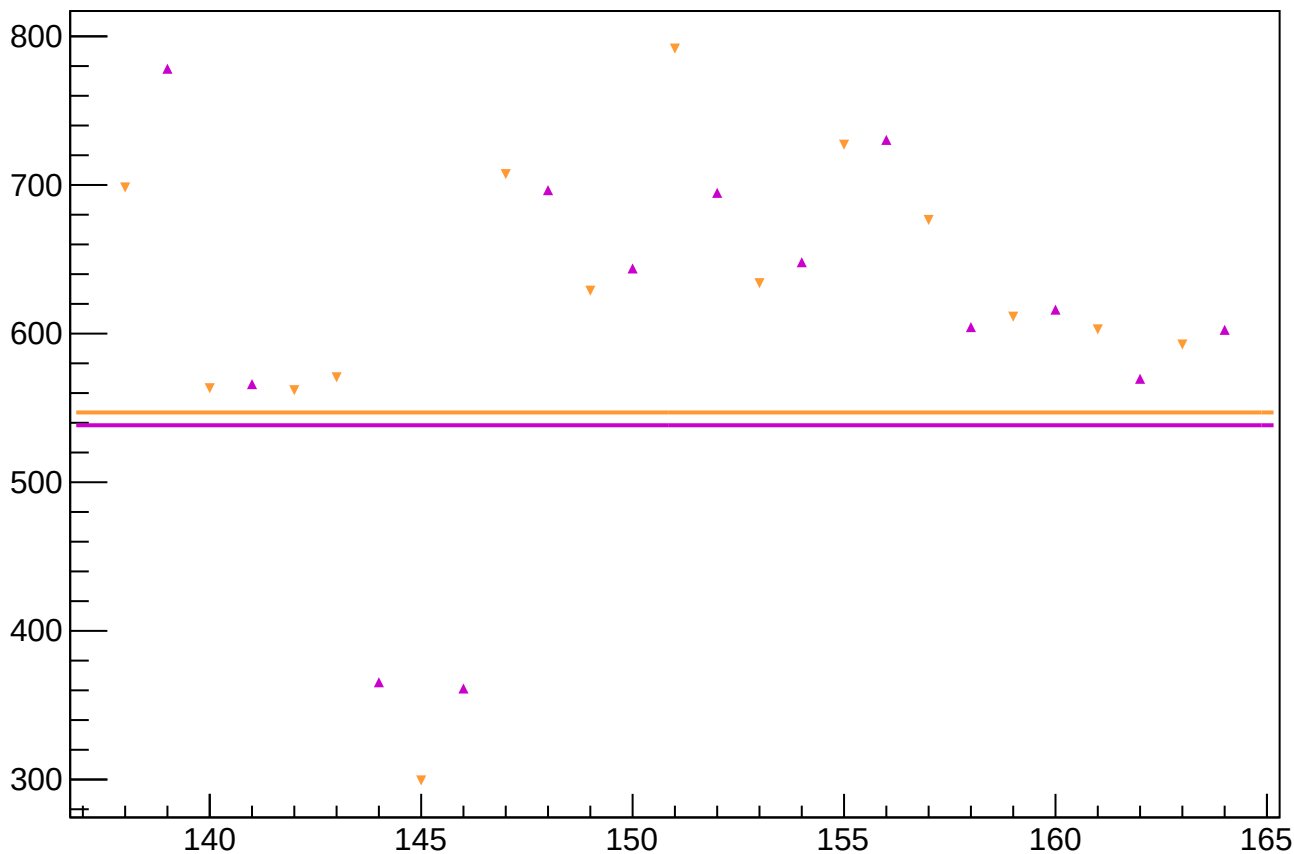
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -185.149+/-173.193  $\chi^2/\text{NDF}$ : 17.3/12

Out: -590.717+/-175.392  $\chi^2/\text{NDF}$ : 27.3/13

All: -385.374+/-123.236  $\chi^2/\text{NDF}$ : 47.3/26

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: 546.950+/-0.124  $\chi^2/\text{NDF}$ :1591232.6/13

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

Left In: 538.342+/-0.122  $\chi^2/\text{NDF}$ :1332855.3/12

Left: 542.592+/-0.087  $\chi^2/\text{NDF}$ : 2926527.0/26

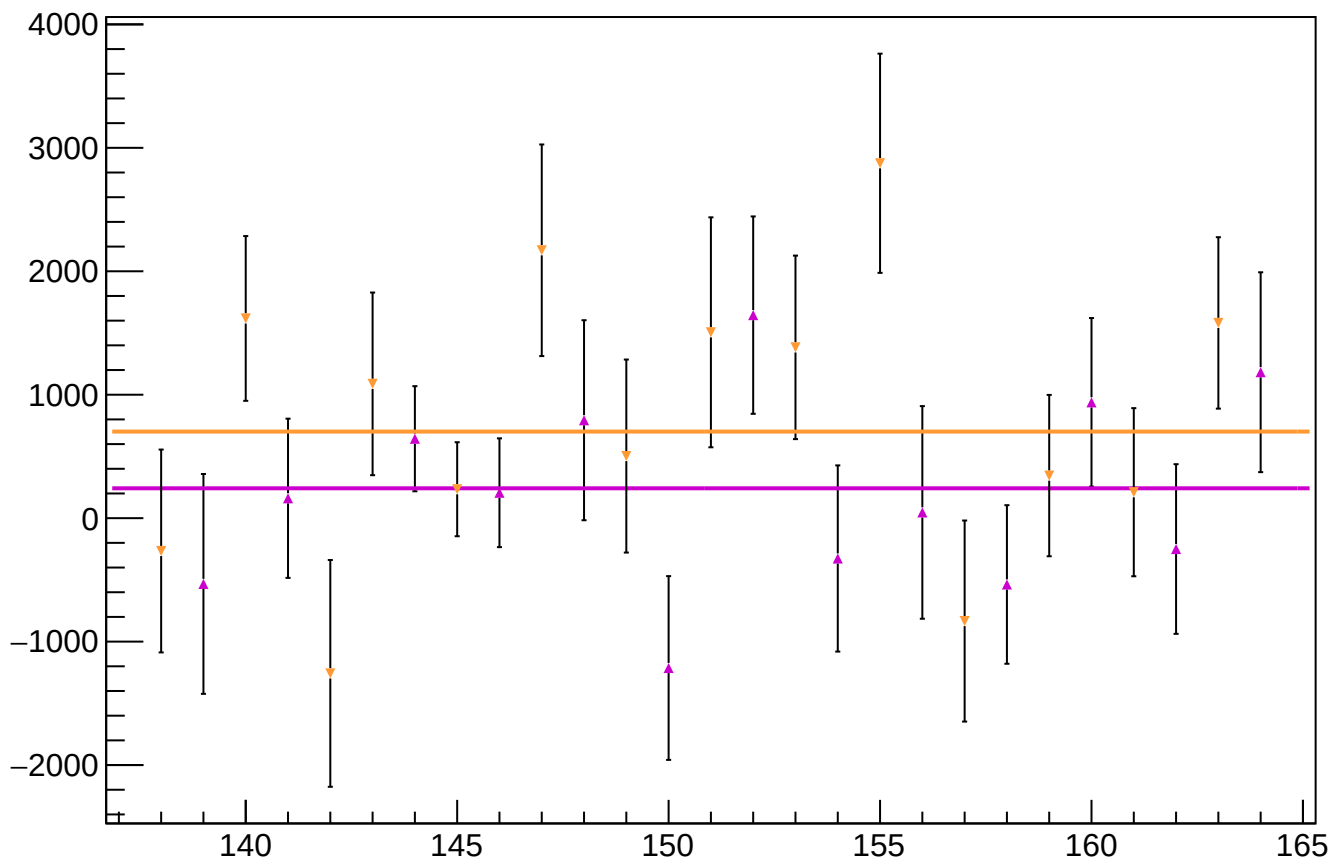
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 538.342+/-0.122  $\chi^2/\text{NDF}$ :1332855.3/12

Out: 546.950+/-0.124  $\chi^2/\text{NDF}$ :1591232.6/13

All: 542.592+/-0.087  $\chi^2/\text{NDF}$ : 2926527.0/26

# asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 701.428+/-185.879  $\chi^2/\text{NDF}$ : 26.2/13

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

Left In: 241.946+/-180.946  $\chi^2/\text{NDF}$ : 14.0/12

Left: 465.509+/-129.657  $\chi^2/\text{NDF}$ : 43.3/26

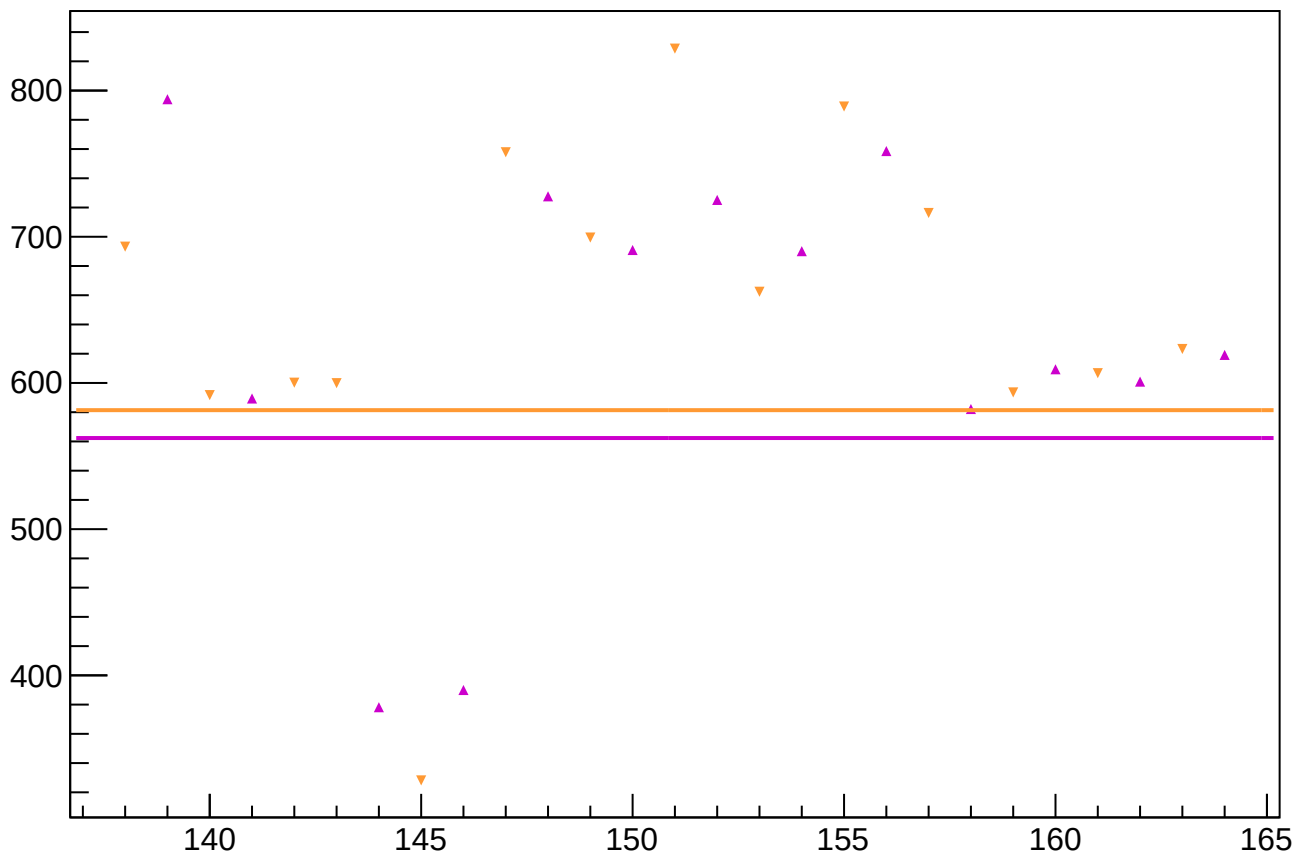
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 241.946+/-180.946  $\chi^2/\text{NDF}$ : 14.0/12

Out: 701.428+/-185.879  $\chi^2/\text{NDF}$ : 26.2/13

All: 465.509+/-129.657  $\chi^2/\text{NDF}$ : 43.3/26

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 581.394+/-0.131  $\chi^2/\text{NDF}$ :1394215.4/13

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

Left In: 562.329+/-0.128  $\chi^2/\text{NDF}$ :1233869.8/12

Left: 571.605+/-0.092  $\chi^2/\text{NDF}$ : 2638888.4/26

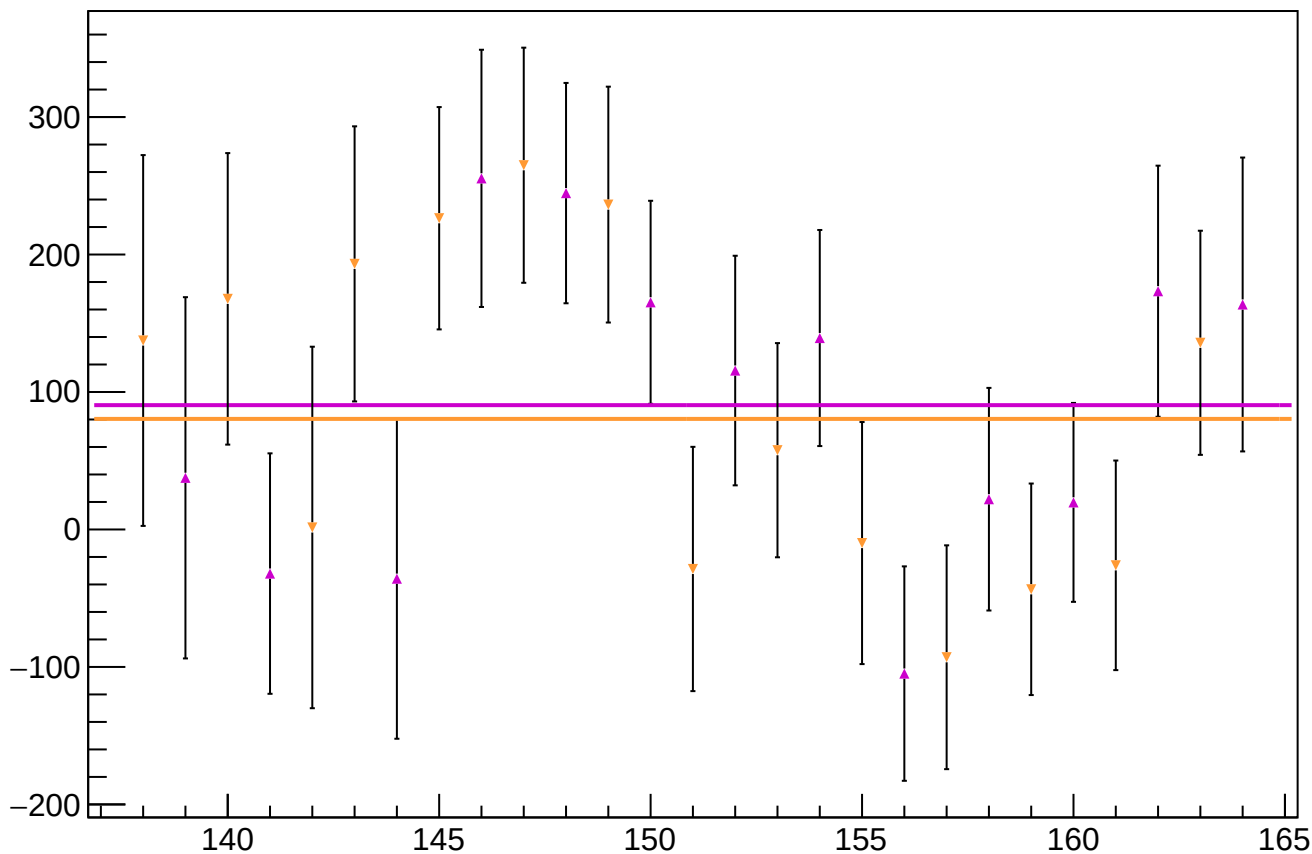
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 562.329+/-0.128  $\chi^2/\text{NDF}$ :1233869.8/12

Out: 581.394+/-0.131  $\chi^2/\text{NDF}$ :1394215.4/13

All: 571.605+/-0.092  $\chi^2/\text{NDF}$ : 2638888.4/26

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: 80.431 $\pm$ 23.635  $\chi^2$ /NDF:25.9/13

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

Left In: 90.433 $\pm$ 23.997  $\chi^2$ /NDF:20.8/12

Left: 85.356 $\pm$ 16.839  $\chi^2$ /NDF: 46.8/26

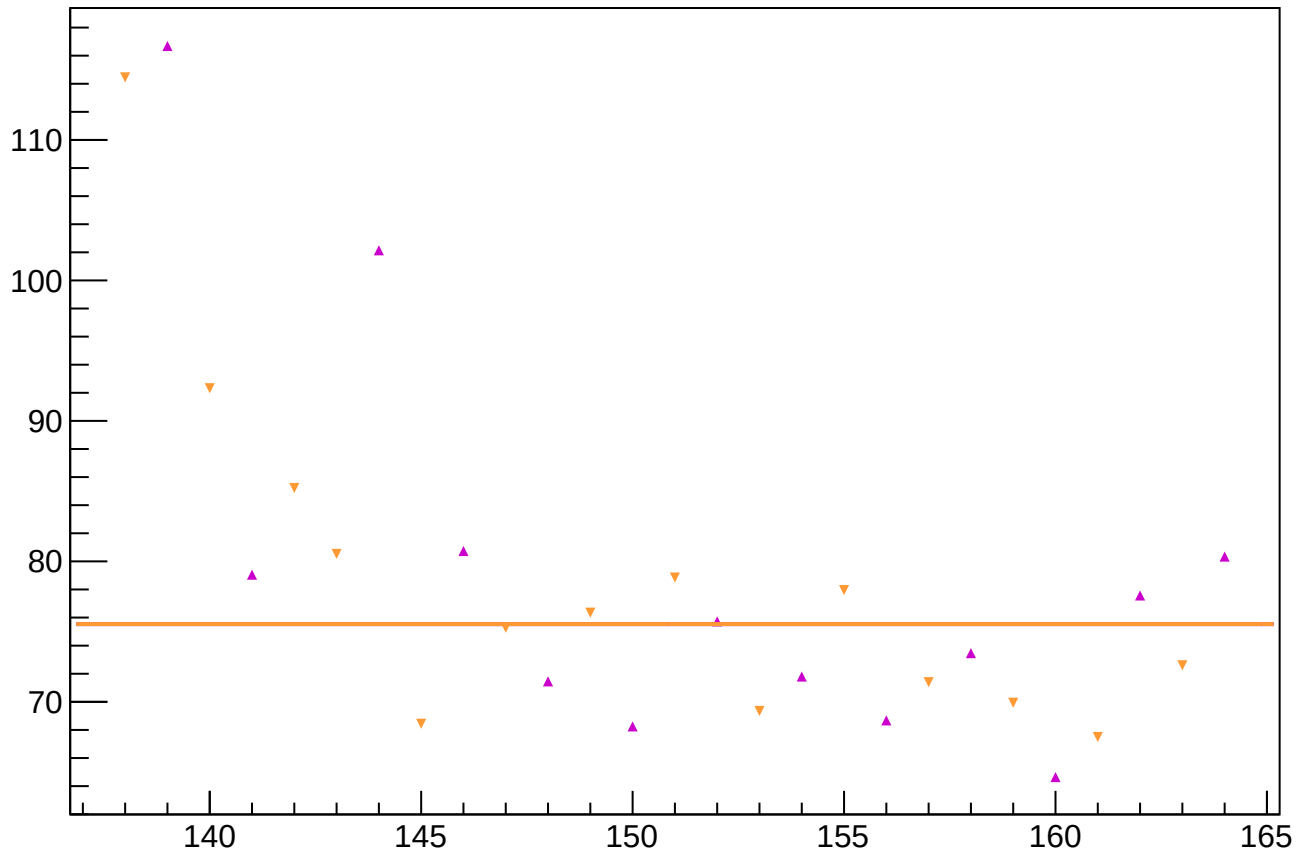
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 90.433 $\pm$ 23.997  $\chi^2$ /NDF:20.8/12

Out: 80.431 $\pm$ 23.635  $\chi^2$ /NDF:25.9/13

All: 85.356 $\pm$ 16.839  $\chi^2$ /NDF: 46.8/26

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: 75.535+/-0.017  $\chi^2/\text{NDF}$ :305623.9/13

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

Left In: 75.533+/-0.017  $\chi^2/\text{NDF}$ :406366.5/12

Left: 75.534+/-0.012  $\chi^2/\text{NDF}$ : 711990.4/26

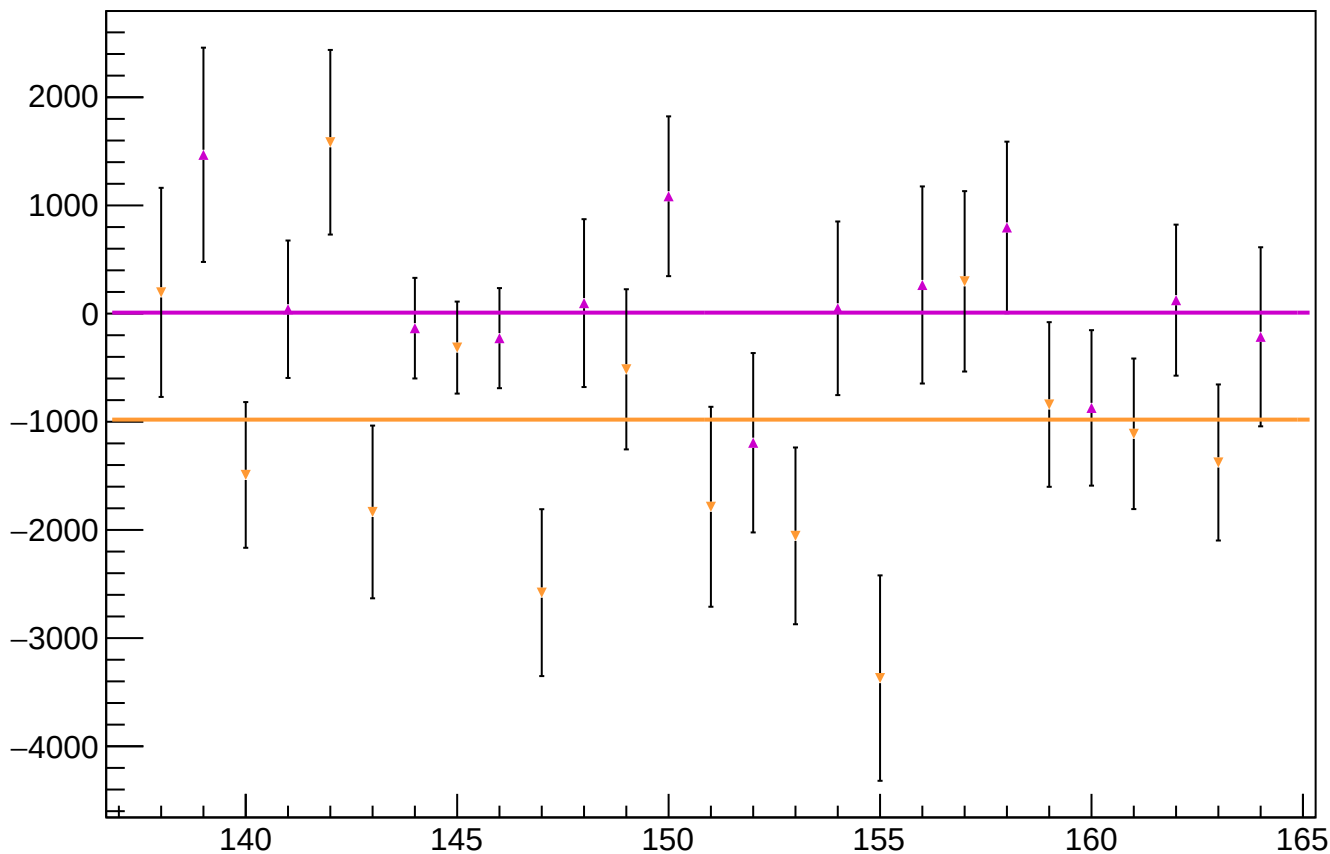
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 75.533+/-0.017  $\chi^2/\text{NDF}$ :406366.5/12

Out: 75.535+/-0.017  $\chi^2/\text{NDF}$ :305623.9/13

All: 75.534+/-0.012  $\chi^2/\text{NDF}$ : 711990.4/26

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: -980.175+/-195.453  $\chi^2/\text{NDF}$ :30.9/13

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

Left In: 8.817+/-190.569  $\chi^2/\text{NDF}$ :9.4/12

Left: -473.169+/-136.447  $\chi^2/\text{NDF}$ : 53.5/26

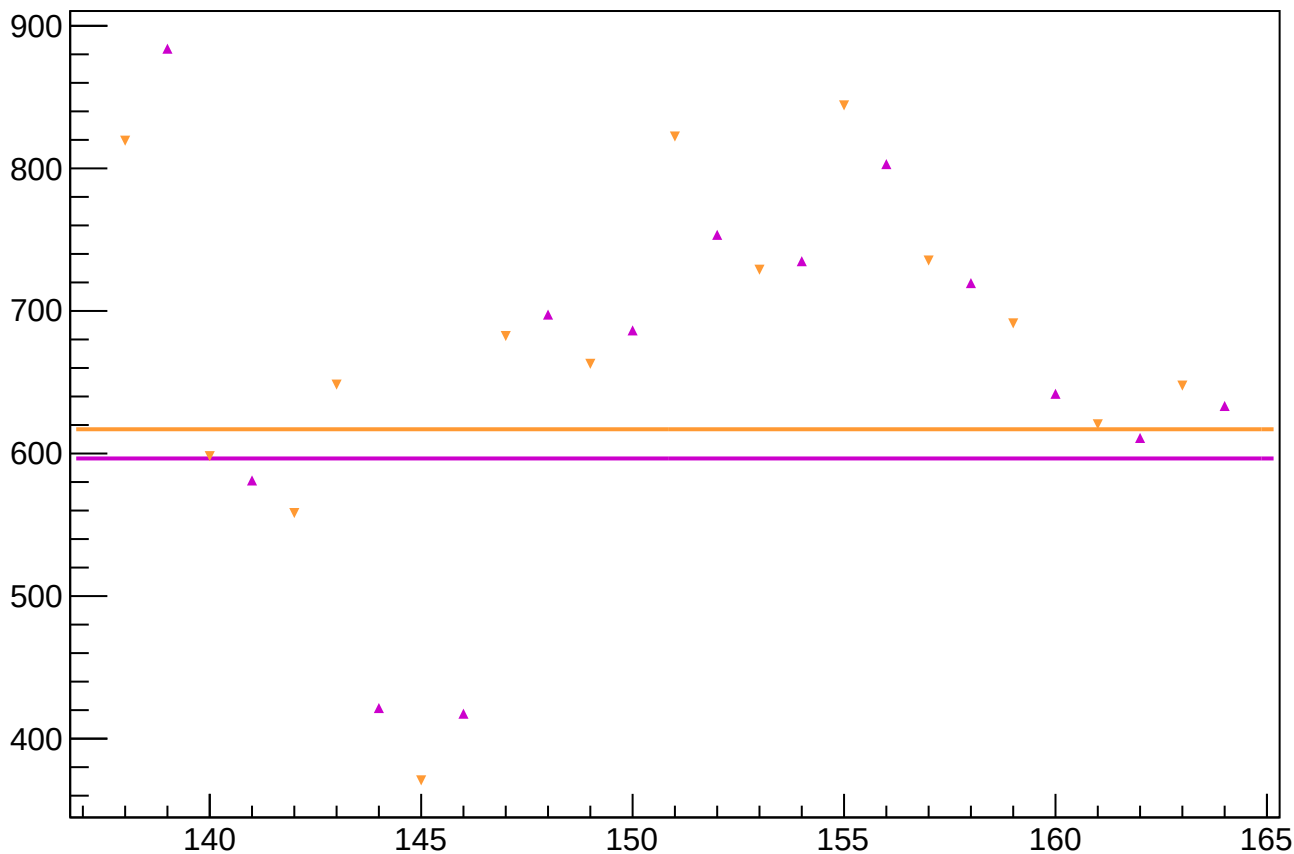
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8.817+/-190.569  $\chi^2/\text{NDF}$ :9.4/12

Out: -980.175+/-195.453  $\chi^2/\text{NDF}$ :30.9/13

All: -473.169+/-136.447  $\chi^2/\text{NDF}$ : 53.5/26

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: 617.021+/-0.138  $\chi^2/\text{NDF}$ :1108155.1/13

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

Left In: 596.534+/-0.135  $\chi^2/\text{NDF}$ :1110533.4/12

Left: 606.518+/-0.096  $\chi^2/\text{NDF}$ : 2229953.1/26

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

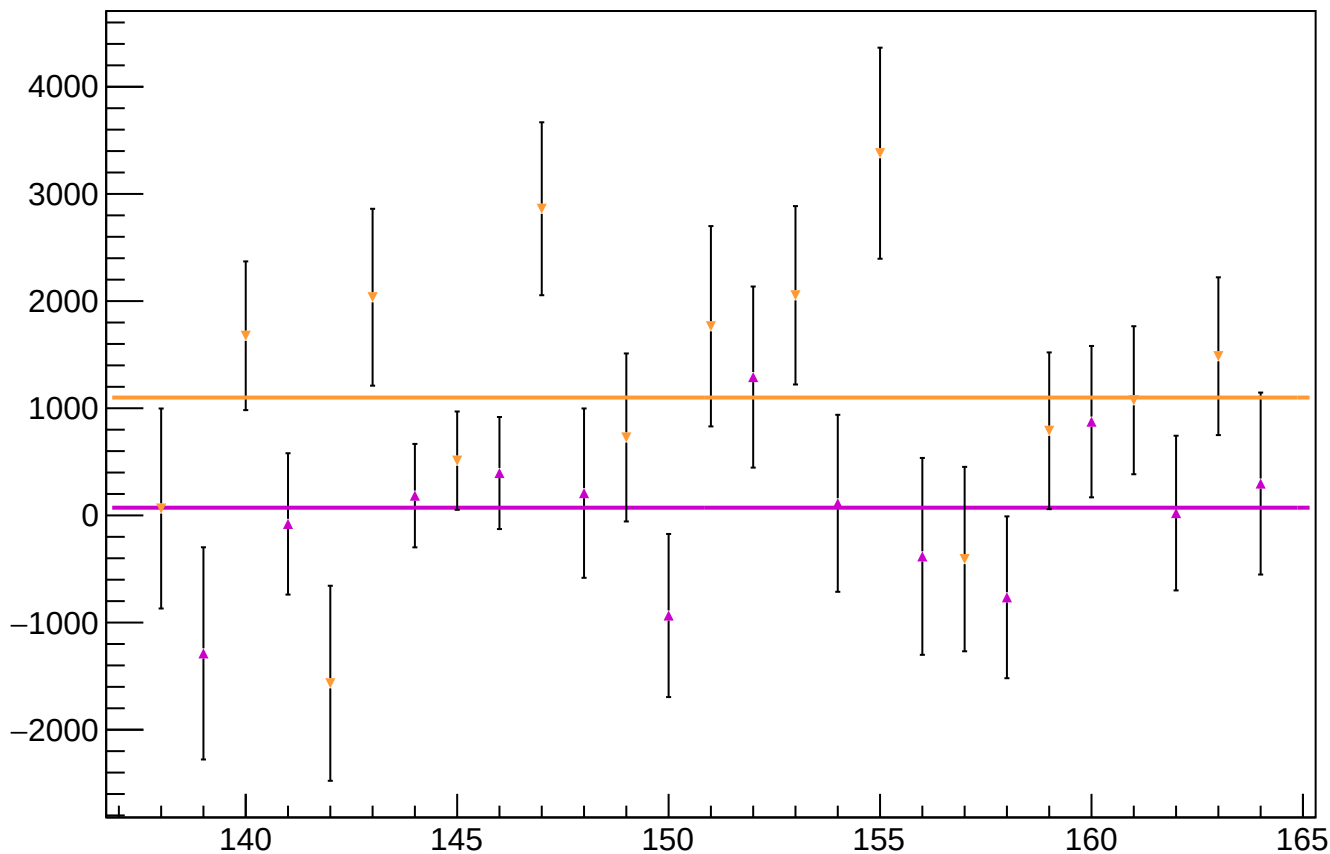
In: 596.534+/-0.135  $\chi^2/\text{NDF}$ :1110533.4/12

Out: 617.021+/-0.138  $\chi^2/\text{NDF}$ :1108155.1/13

All: 606.518+/-0.096  $\chi^2/\text{NDF}$ : 2229953.1/26



# asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1099.833+/-201.654  $\chi^2/\text{NDF}$ :29.1/13

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

Left In: 71.919+/-197.215  $\chi^2/\text{NDF}$ :9.1/12

Left: 574.438+/-140.995  $\chi^2/\text{NDF}$ : 51.5/26

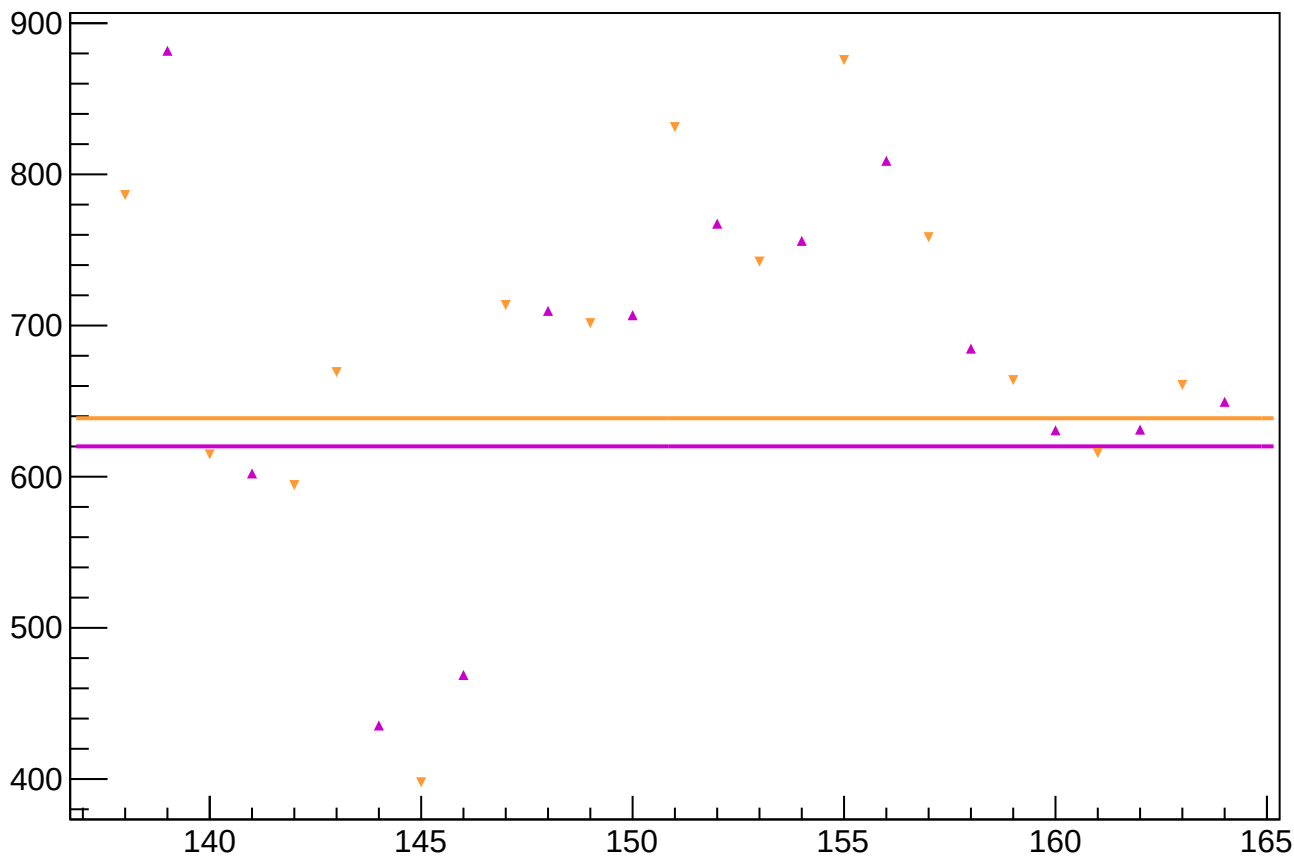
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 71.919+/-197.215  $\chi^2/\text{NDF}$ :9.1/12

Out: 1099.833+/-201.654  $\chi^2/\text{NDF}$ :29.1/13

All: 574.438+/-140.995  $\chi^2/\text{NDF}$ : 51.5/26

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 638.675+/-0.143  $\chi^2/\text{NDF}$ : 917615.9/13

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

Left In: 620.070+/-0.139  $\chi^2/\text{NDF}$ : 870478.8/12

Left: 629.166+/-0.100  $\chi^2/\text{NDF}$ : 1796796.3/26

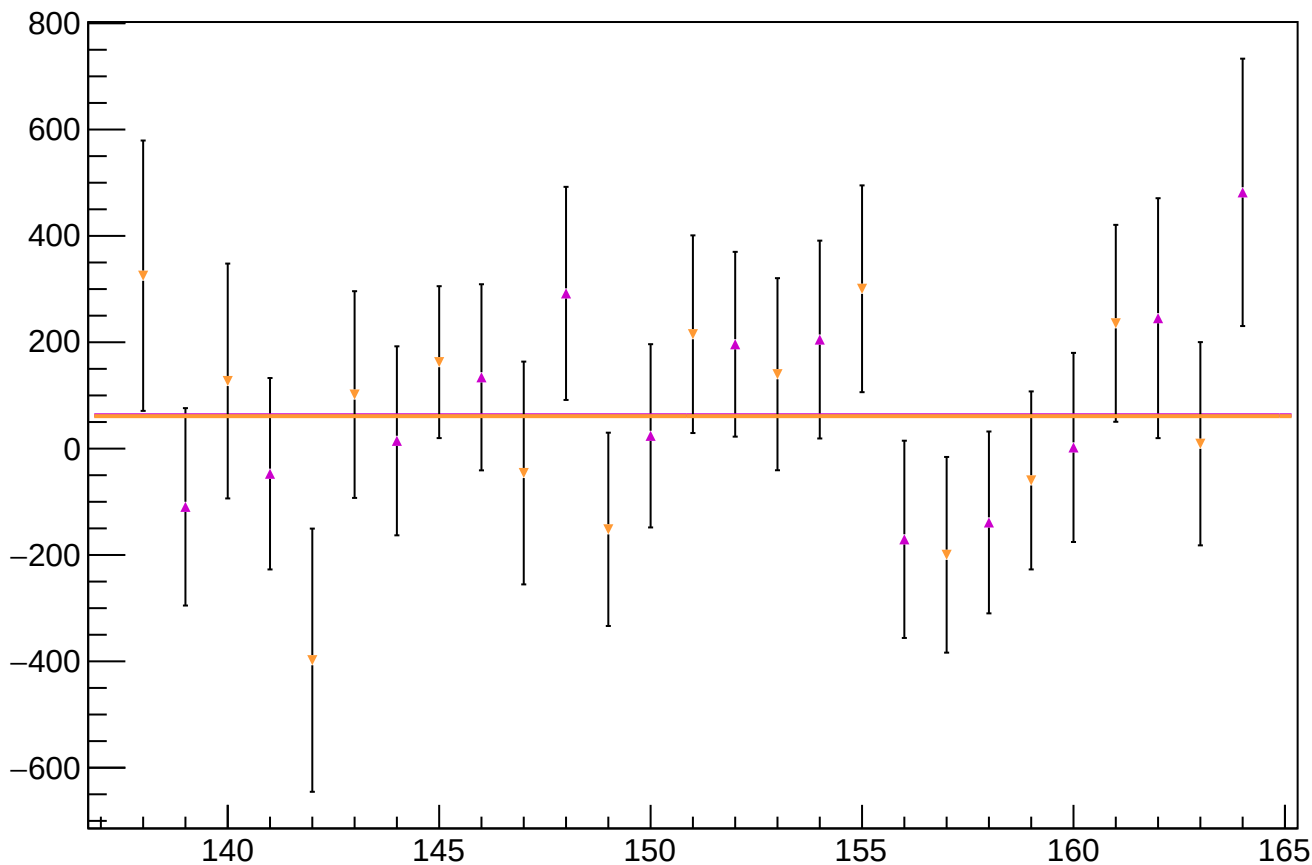
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 620.070+/-0.139  $\chi^2/\text{NDF}$ : 870478.8/12

Out: 638.675+/-0.143  $\chi^2/\text{NDF}$ : 917615.9/13

All: 629.166+/-0.100  $\chi^2/\text{NDF}$ : 1796796.3/26

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 61.040 $\pm$ 50.718  $\chi^2$ /NDF:12.7/13

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

Left In: 62.704 $\pm$ 51.624  $\chi^2$ /NDF:10.5/12

Left: 61.857 $\pm$ 36.179  $\chi^2$ /NDF: 23.2/26

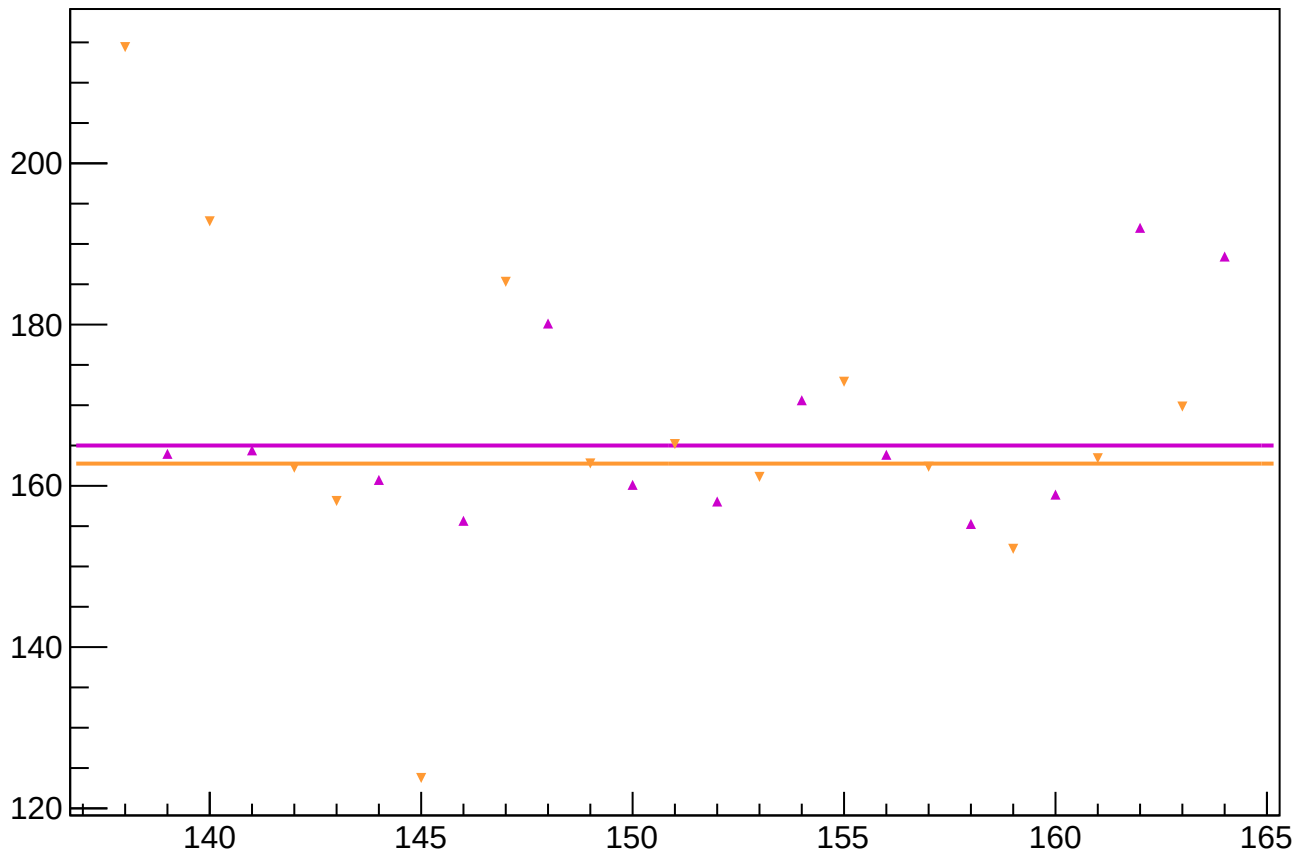
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 62.704 $\pm$ 51.624  $\chi^2$ /NDF:10.5/12

Out: 61.040 $\pm$ 50.718  $\chi^2$ /NDF:12.7/13

All: 61.857 $\pm$ 36.179  $\chi^2$ /NDF: 23.2/26

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: 162.758+/-0.036  $\chi^2/\text{NDF}$ :309731.1/13

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

Left In: 165.002+/-0.037  $\chi^2/\text{NDF}$ :79893.4/12

Left: 163.860+/-0.026  $\chi^2/\text{NDF}$ : 391547.4/26

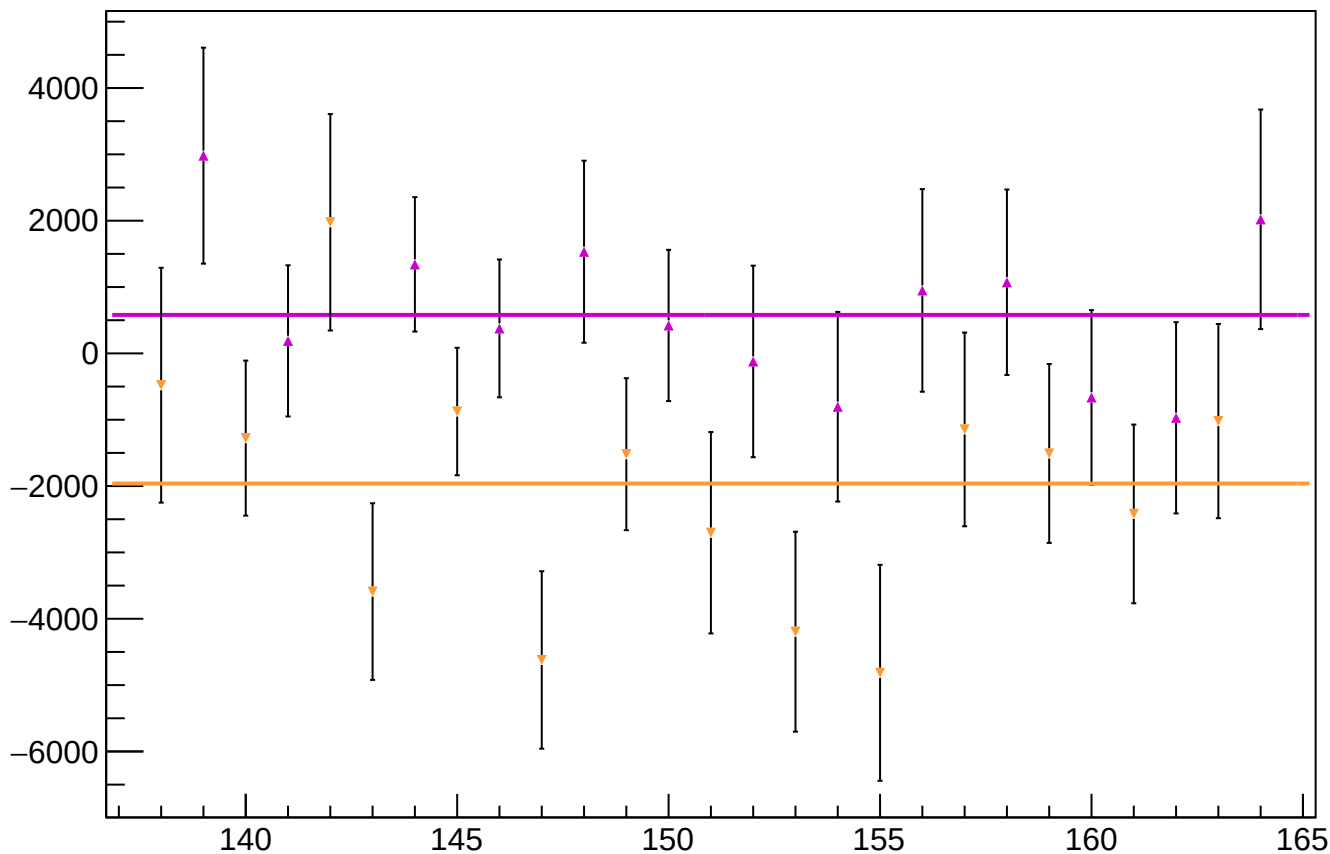
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 165.002+/-0.037  $\chi^2/\text{NDF}$ :79893.4/12

Out: 162.758+/-0.036  $\chi^2/\text{NDF}$ :309731.1/13

All: 163.860+/-0.026  $\chi^2/\text{NDF}$ : 391547.4/26

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1961.973+/-360.702  $\chi^2/\text{NDF}$ :20.2/13

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

Left In: 579.946+/-360.743  $\chi^2/\text{NDF}$ :7.6/12

Left: -691.157+/-255.069  $\chi^2/\text{NDF}$ : 52.6/26

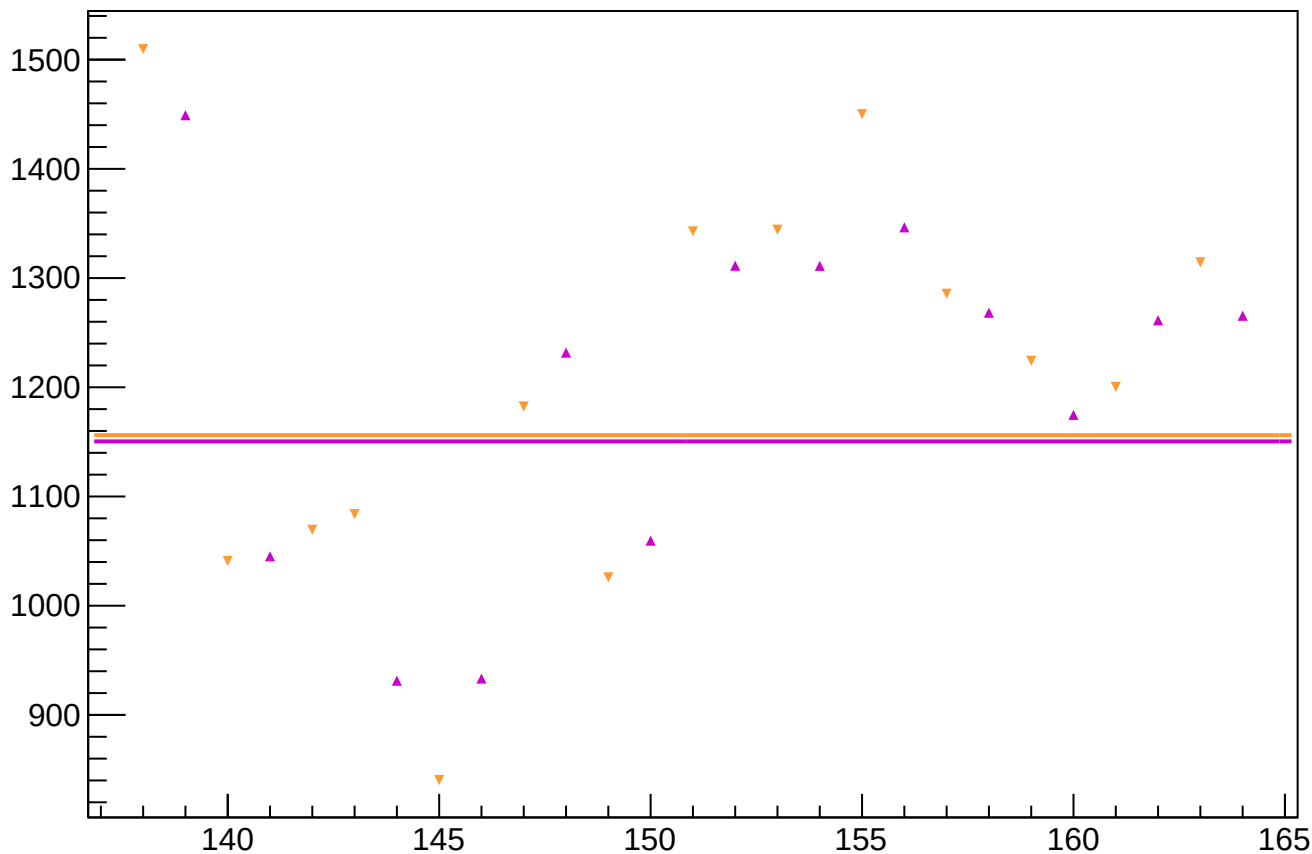
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 579.946+/-360.743  $\chi^2/\text{NDF}$ :7.6/12

Out: -1961.973+/-360.702  $\chi^2/\text{NDF}$ :20.2/13

All: -691.157+/-255.069  $\chi^2/\text{NDF}$ : 52.6/26

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: 1156.161+/-0.255  $\chi^2/\text{NDF}$ :526443.4/13

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

Left In: 1150.453+/-0.255  $\chi^2/\text{NDF}$ :404575.1/12

Left: 1153.308+/-0.180  $\chi^2/\text{NDF}$ : 931269.0/26

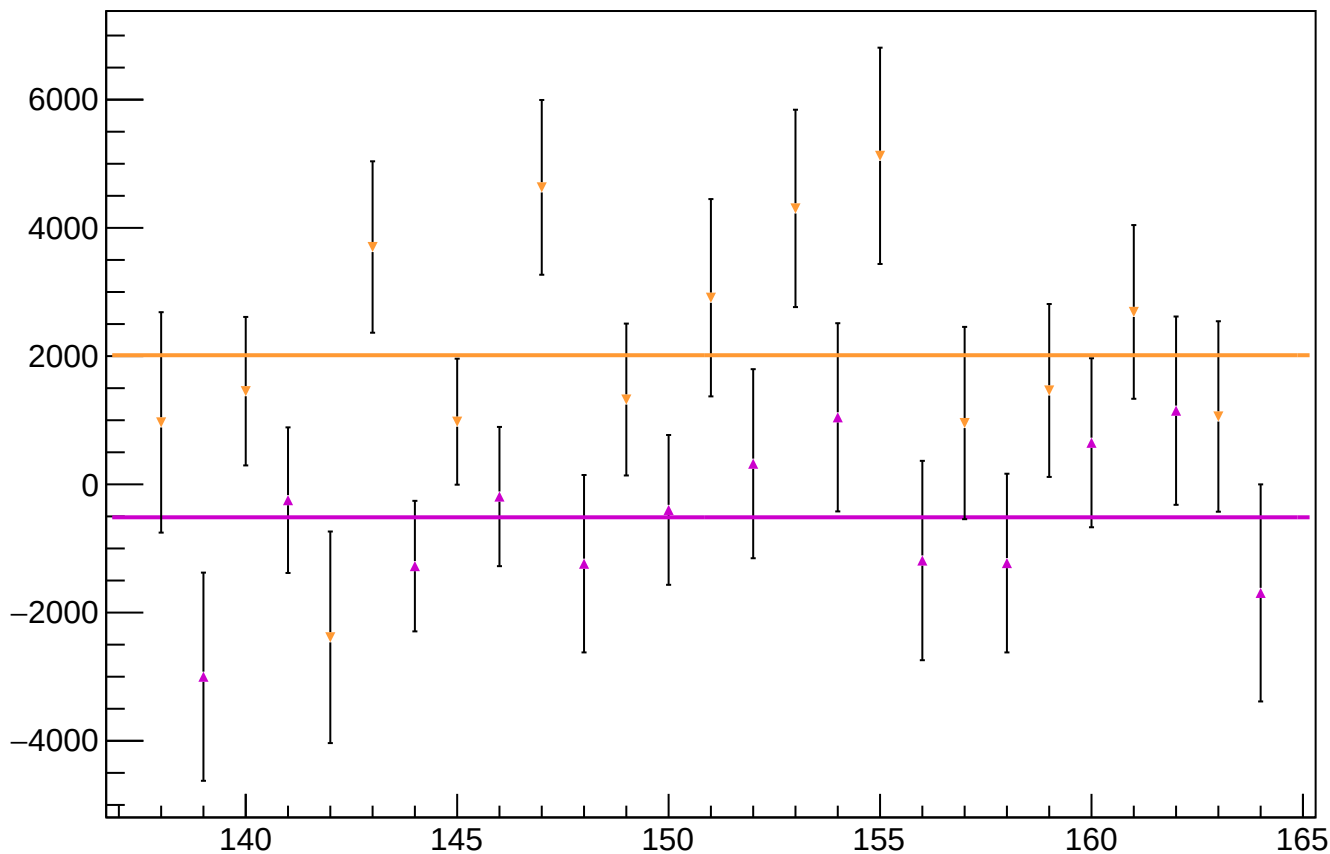
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1150.453+/-0.255  $\chi^2/\text{NDF}$ :404575.1/12

Out: 1156.161+/-0.255  $\chi^2/\text{NDF}$ :526443.4/13

All: 1153.308+/-0.180  $\chi^2/\text{NDF}$ : 931269.0/26

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 2013.923+/-365.475  $\chi^2/\text{NDF}$ :21.7/13

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

Left In: -513.765+/-366.015  $\chi^2/\text{NDF}$ :7.8/12

Left: 751.945+/-258.621  $\chi^2/\text{NDF}$ : 53.4/26

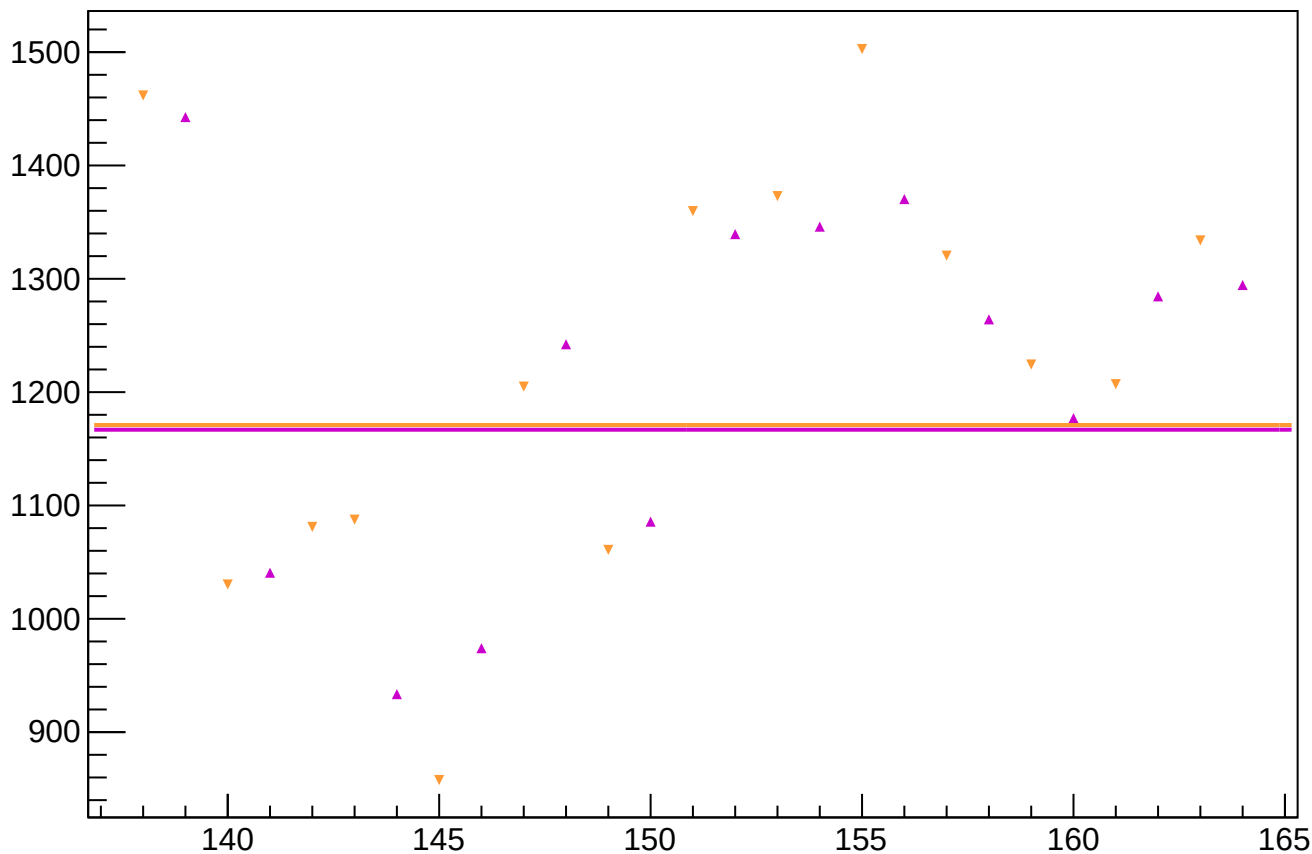
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -513.765+/-366.015  $\chi^2/\text{NDF}$ :7.8/12

Out: 2013.923+/-365.475  $\chi^2/\text{NDF}$ :21.7/13

All: 751.945+/-258.621  $\chi^2/\text{NDF}$ : 53.4/26

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1170.996+/-0.258  $\chi^2/\text{NDF}$ :512561.6/13

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

Left In: 1166.855+/-0.259  $\chi^2/\text{NDF}$ :391743.5/12

Left: 1168.928+/-0.183  $\chi^2/\text{NDF}$ : 904433.4/26

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

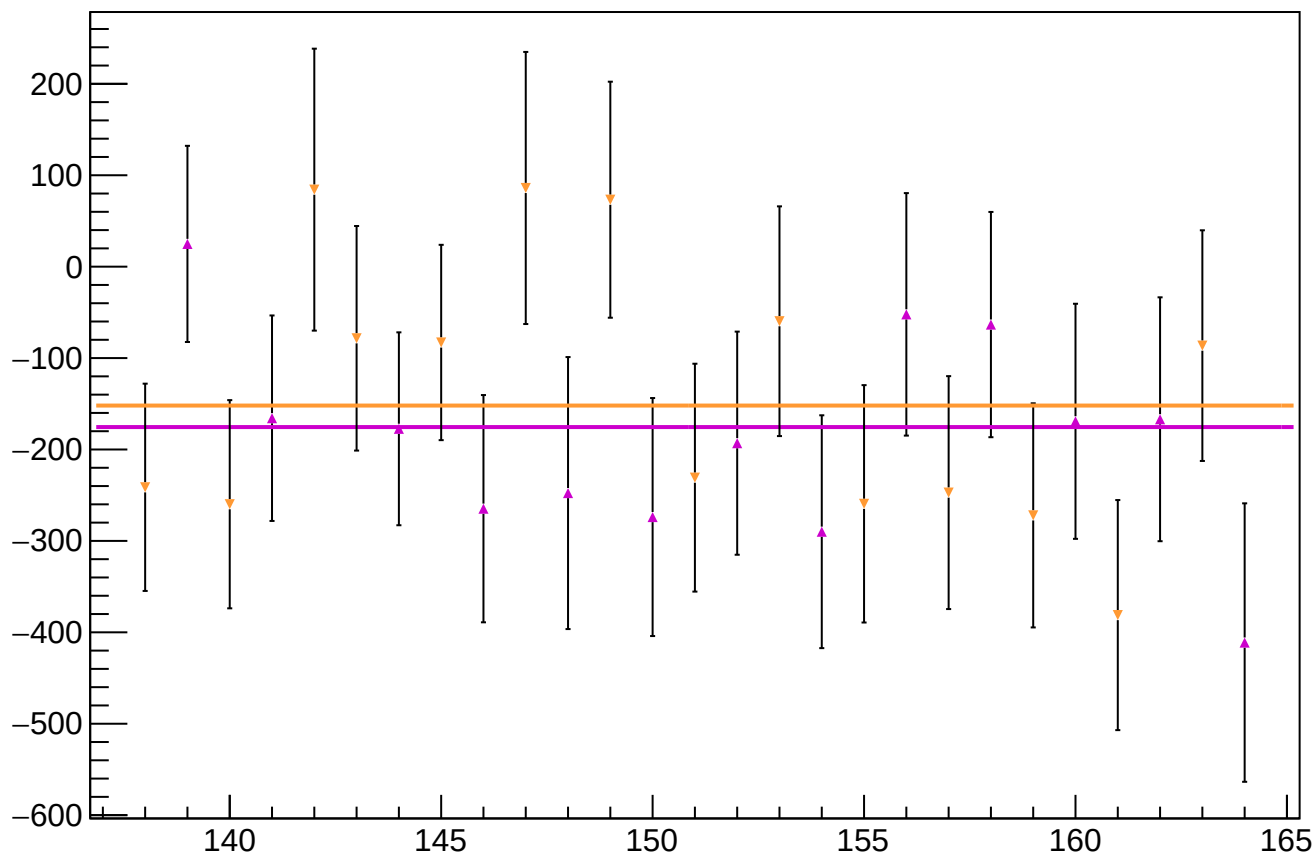
In: 1166.855+/-0.259  $\chi^2/\text{NDF}$ :391743.5/12

Out: 1170.996+/-0.258  $\chi^2/\text{NDF}$ :512561.6/13

All: 1168.928+/-0.183  $\chi^2/\text{NDF}$ : 904433.4/26



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: -151.935+/-33.386  $\chi^2/\text{NDF}$ :17.0/13

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

Left In: -175.466+/-34.585  $\chi^2/\text{NDF}$ :9.7/12

Left: -163.286+/-24.020  $\chi^2/\text{NDF}$ : 27.0/26

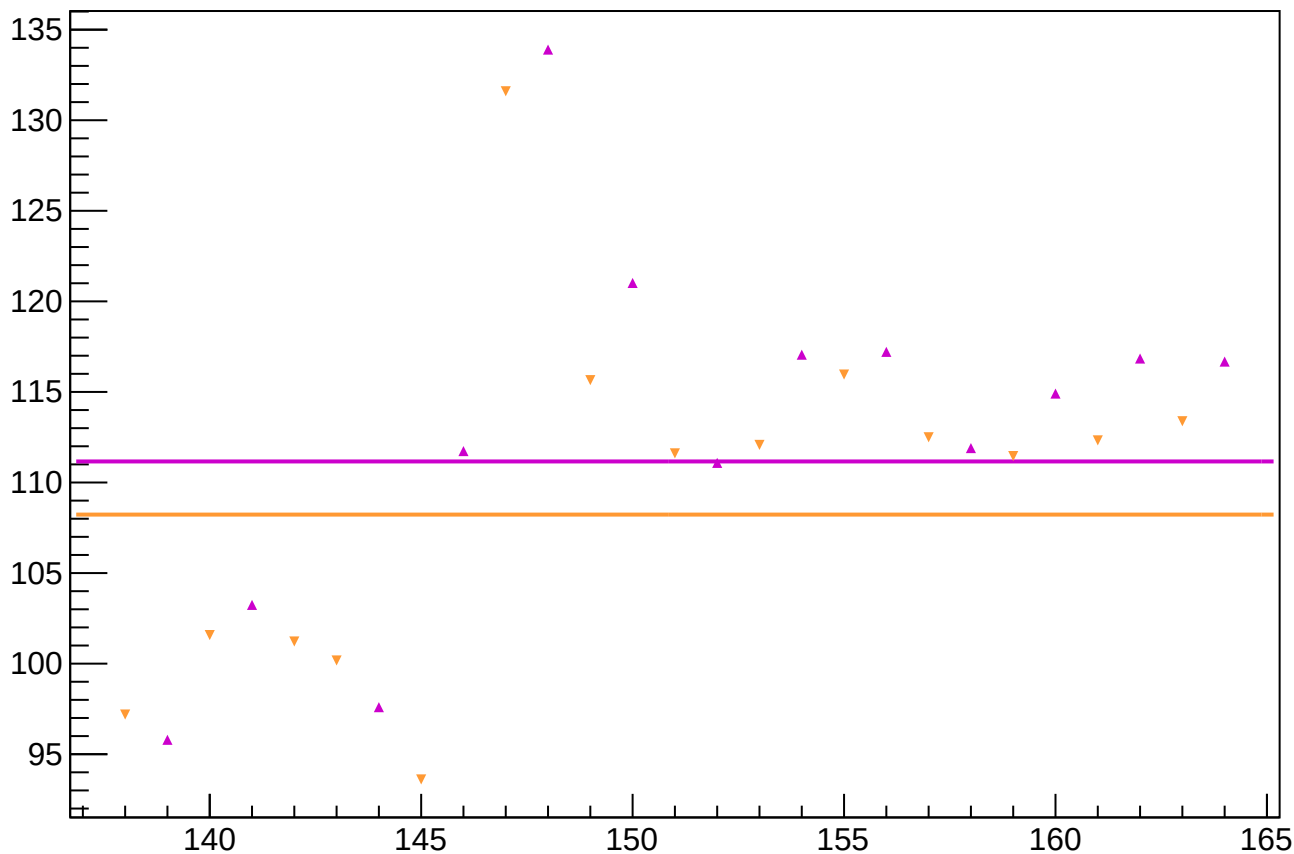
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -175.466+/-34.585  $\chi^2/\text{NDF}$ :9.7/12

Out: -151.935+/-33.386  $\chi^2/\text{NDF}$ :17.0/13

All: -163.286+/-24.020  $\chi^2/\text{NDF}$ : 27.0/26

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: 108.229+/-0.024  $\chi^2/\text{NDF}$ :151421.7/13

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

Left In: 111.163+/-0.024  $\chi^2/\text{NDF}$ :158693.4/12

Left: 109.644+/-0.017  $\chi^2/\text{NDF}$ : 317565.6/26

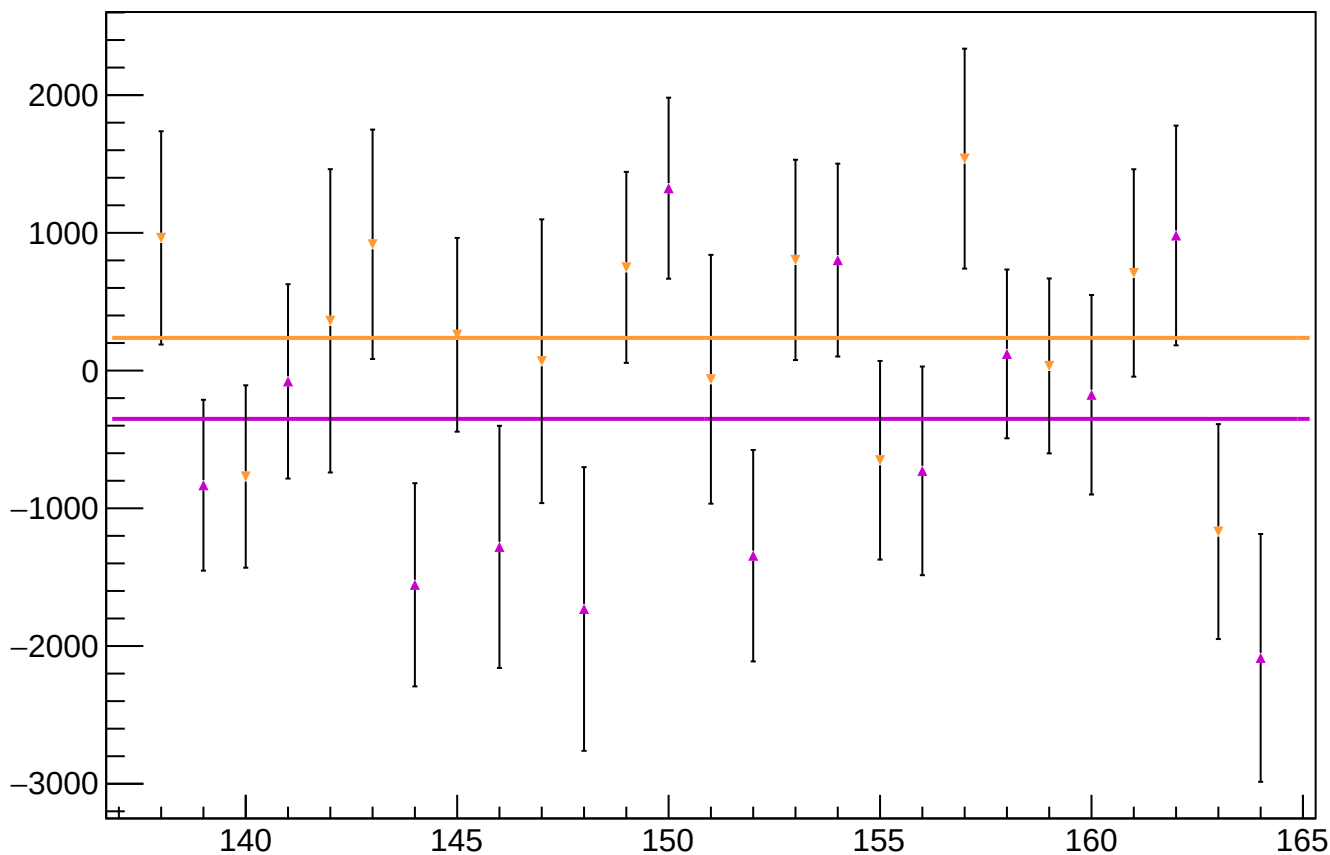
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 111.163+/-0.024  $\chi^2/\text{NDF}$ :158693.4/12

Out: 108.229+/-0.024  $\chi^2/\text{NDF}$ :151421.7/13

All: 109.644+/-0.017  $\chi^2/\text{NDF}$ : 317565.6/26

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: 237.374+/-205.173  $\chi^2/\text{NDF}$ :13.1/13

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

Left In: -350.667+/-204.756  $\chi^2/\text{NDF}$ :24.6/12

Left: -57.244+/-144.931  $\chi^2/\text{NDF}$ : 41.8/26

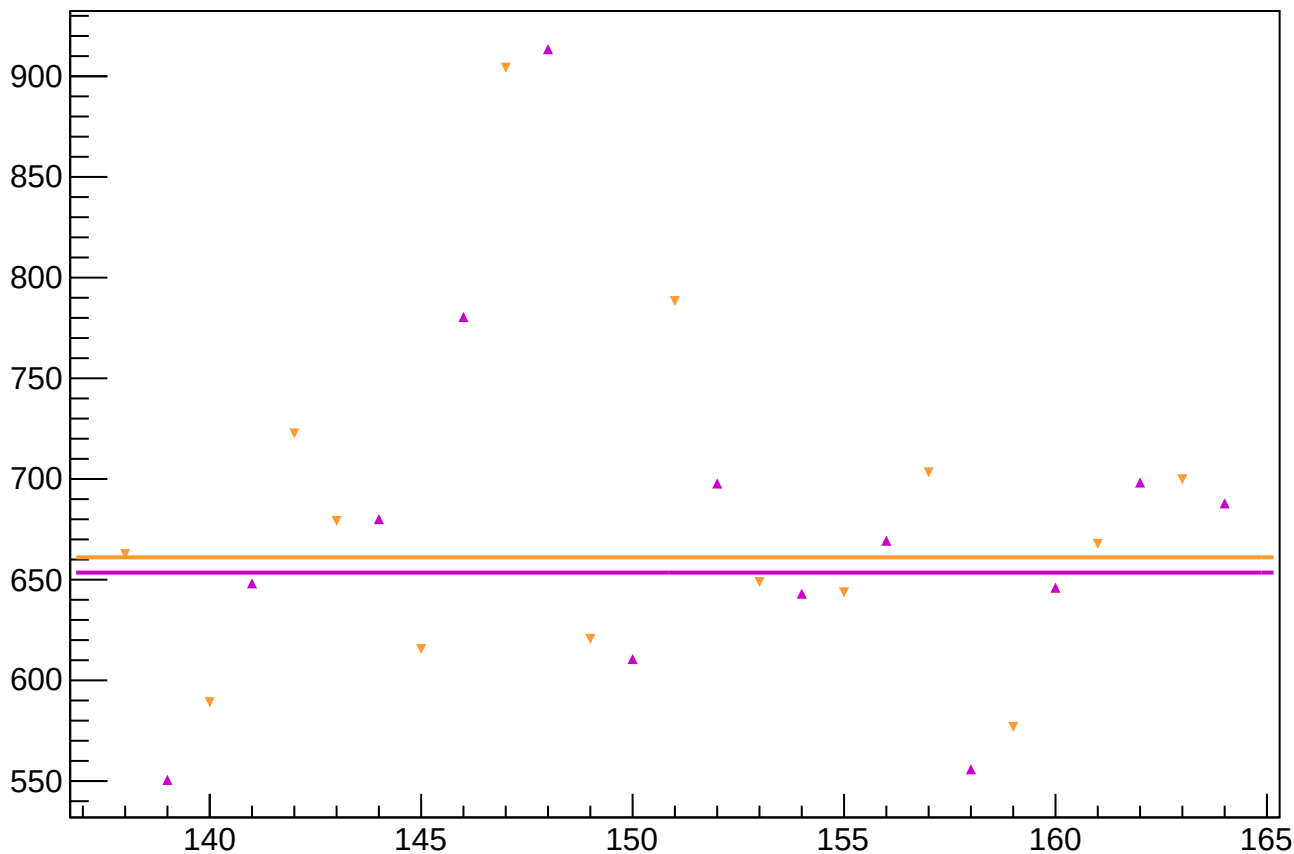
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -350.667+/-204.756  $\chi^2/\text{NDF}$ :24.6/12

Out: 237.374+/-205.173  $\chi^2/\text{NDF}$ :13.1/13

All: -57.244+/-144.931  $\chi^2/\text{NDF}$ : 41.8/26

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: 661.093+/-0.145  $\chi^2/\text{NDF}$ :244786.9/13

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

Left In: 653.525+/-0.145  $\chi^2/\text{NDF}$ :303604.8/12

Left: 657.301+/-0.102  $\chi^2/\text{NDF}$ : 549755.3/26

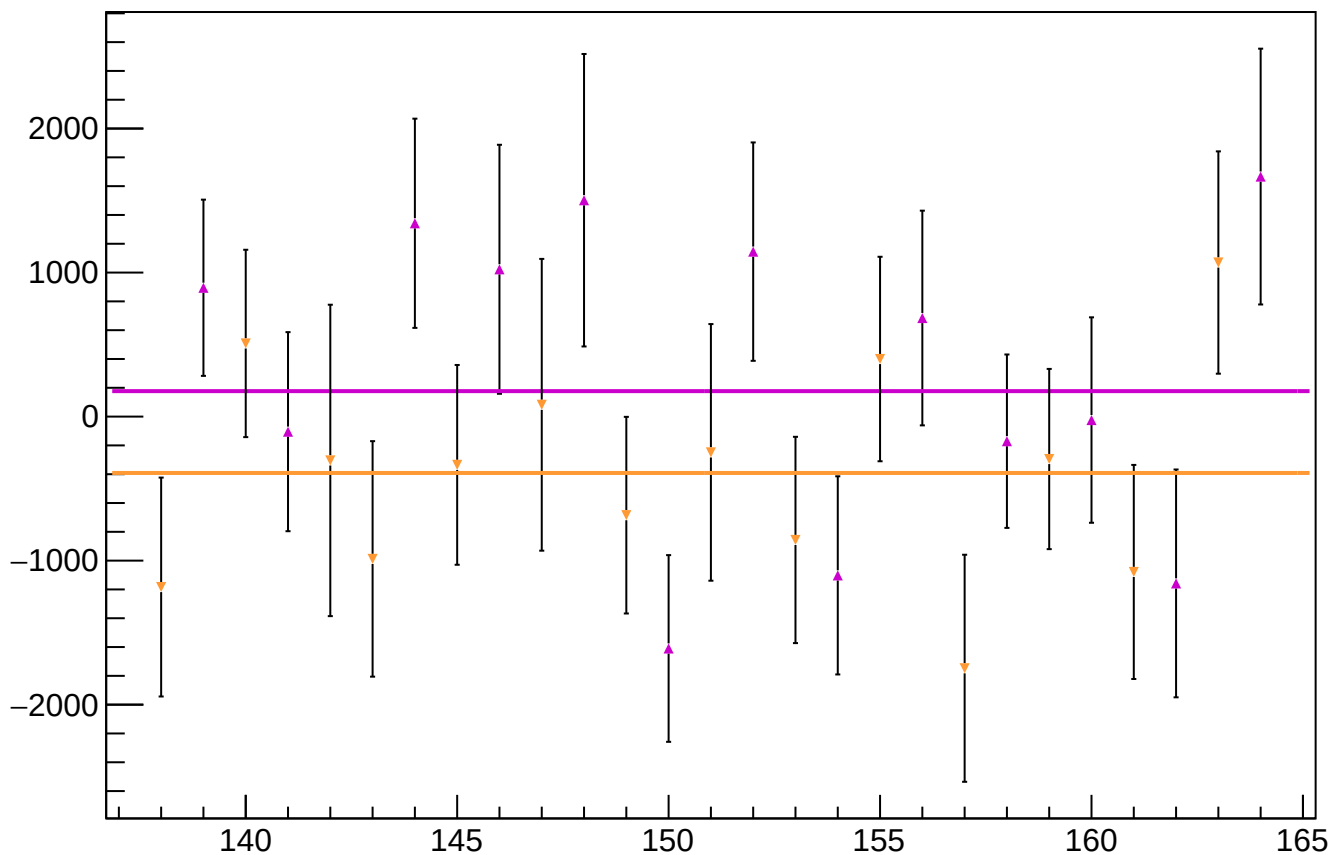
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 653.525+/-0.145  $\chi^2/\text{NDF}$ :303604.8/12

Out: 661.093+/-0.145  $\chi^2/\text{NDF}$ :244786.9/13

All: 657.301+/-0.102  $\chi^2/\text{NDF}$ : 549755.3/26

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -391.277+/-202.055  $\chi^2/\text{NDF}$ :13.1/13

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

Left In: 176.829+/-201.639  $\chi^2/\text{NDF}$ :26.0/12

Left: -106.639+/-142.727  $\chi^2/\text{NDF}$ : 43.0/26

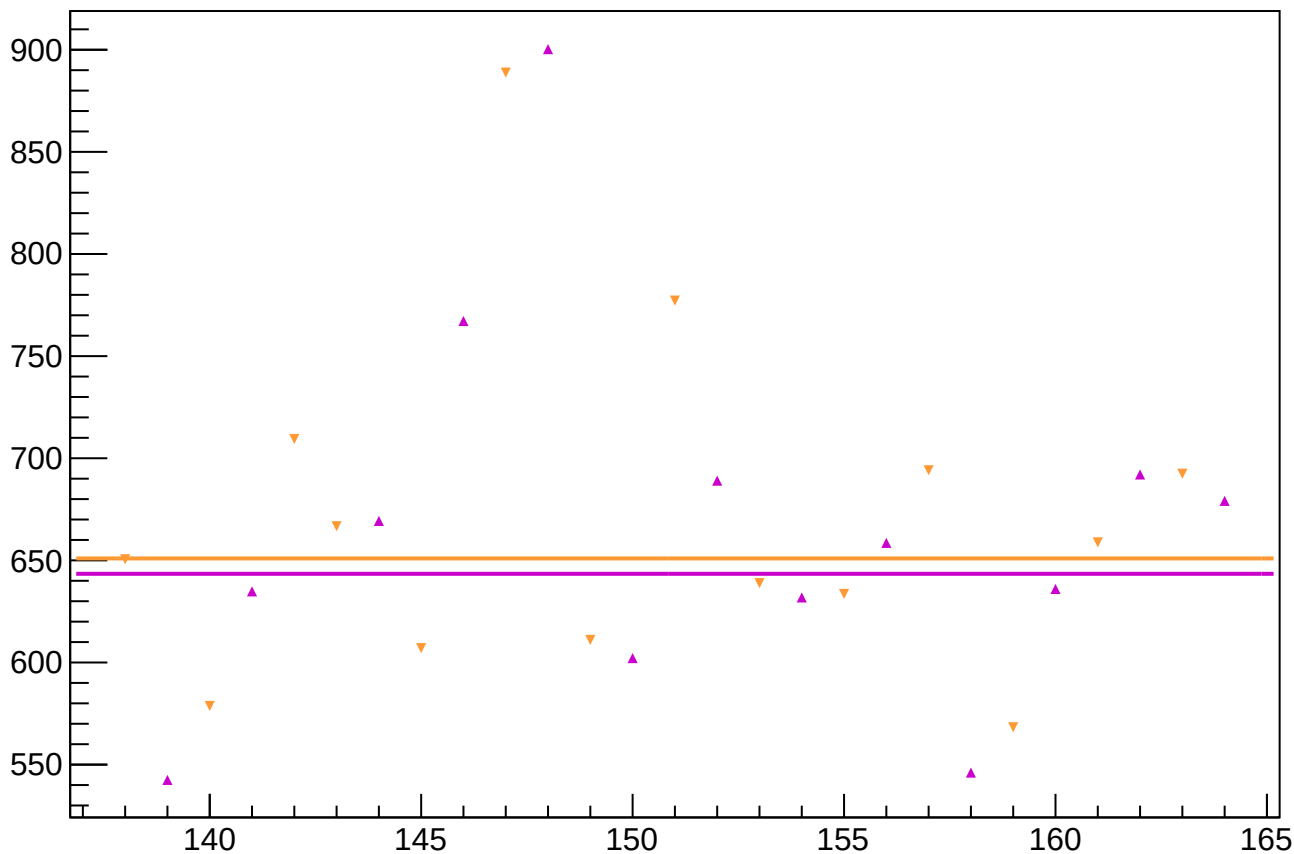
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 176.829+/-201.639  $\chi^2/\text{NDF}$ :26.0/12

Out: -391.277+/-202.055  $\chi^2/\text{NDF}$ :13.1/13

All: -106.639+/-142.727  $\chi^2/\text{NDF}$ : 43.0/26

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 650.958+/-0.143  $\chi^2/\text{NDF}$ :245228.9/13

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

Left In: 643.431+/-0.143  $\chi^2/\text{NDF}$ :306331.6/12

Left: 647.187+/-0.101  $\chi^2/\text{NDF}$ : 552951.1/26

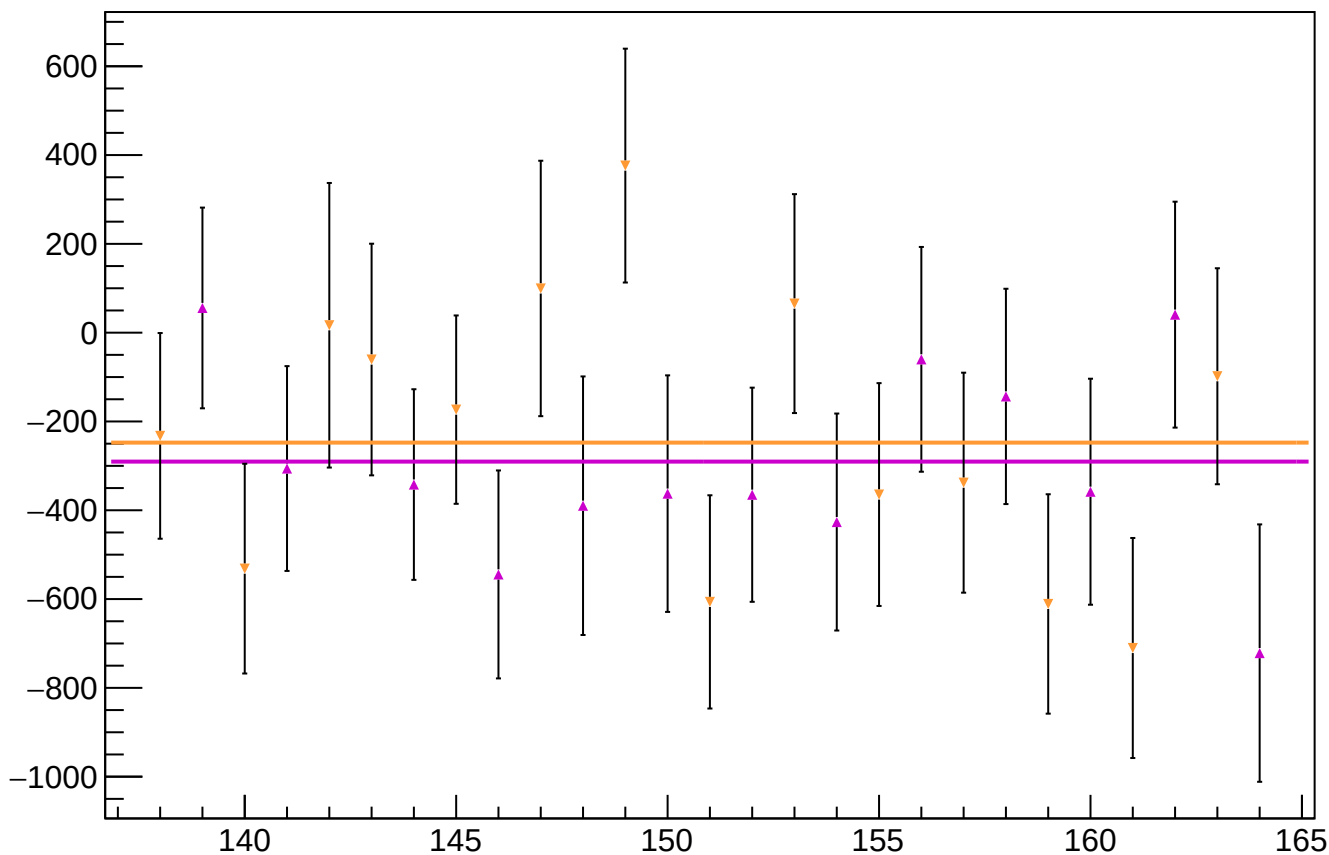
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 643.431+/-0.143  $\chi^2/\text{NDF}$ :306331.6/12

Out: 650.958+/-0.143  $\chi^2/\text{NDF}$ :245228.9/13

All: 647.187+/-0.101  $\chi^2/\text{NDF}$ : 552951.1/26

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: -247.609+/-66.628  $\chi^2/\text{NDF}$ :20.1/13

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

Left In: -290.409+/-68.431  $\chi^2/\text{NDF}$ :9.4/12

Left: -268.437+/-47.738  $\chi^2/\text{NDF}$ : 29.6/26

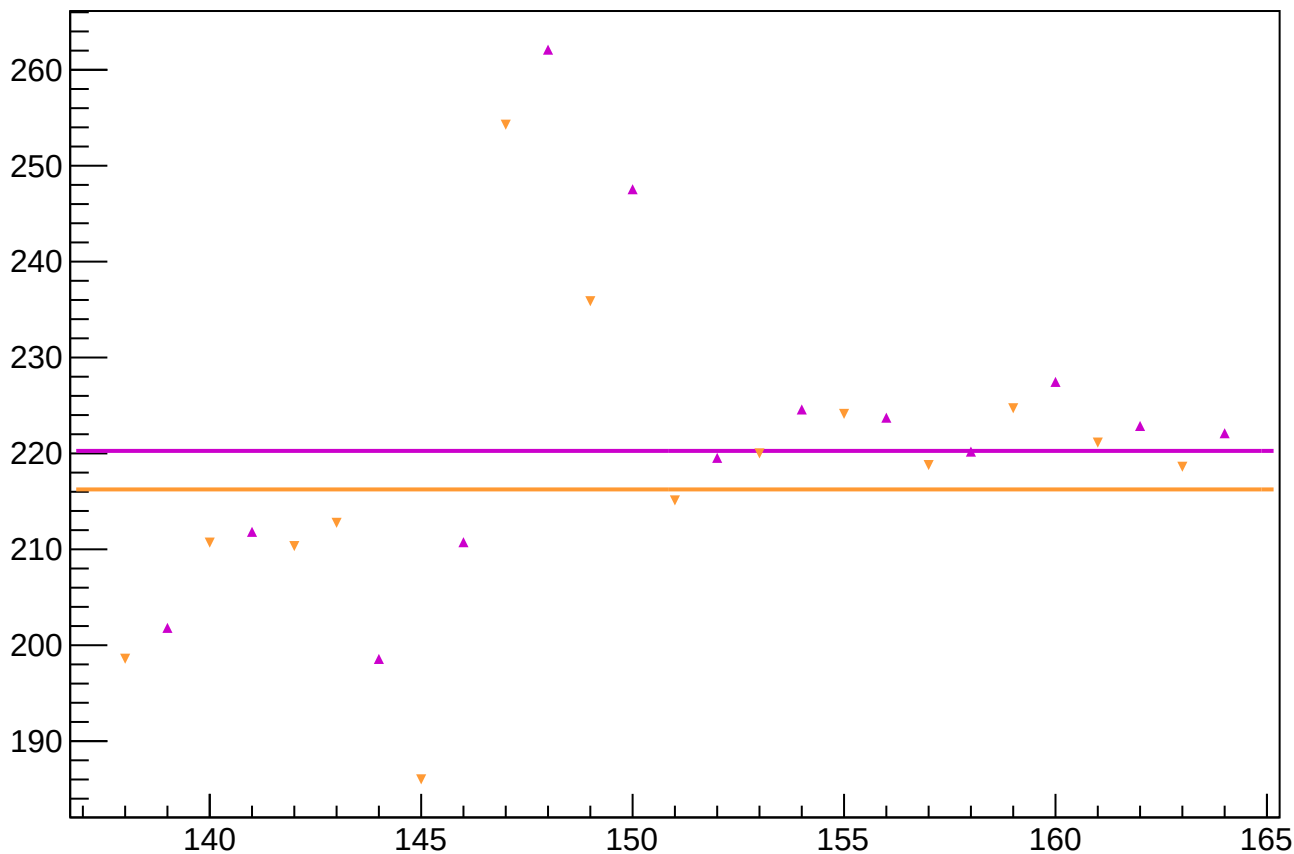
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -290.409+/-68.431  $\chi^2/\text{NDF}$ :9.4/12

Out: -247.609+/-66.628  $\chi^2/\text{NDF}$ :20.1/13

All: -268.437+/-47.738  $\chi^2/\text{NDF}$ : 29.6/26

dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 216.246 $\pm$ 0.047  $\chi^2/\text{NDF}$ :106456.1/13

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

Left In: 220.263 $\pm$ 0.048  $\chi^2/\text{NDF}$ :104919.3/12

Left: 218.201 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 214914.0/26

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

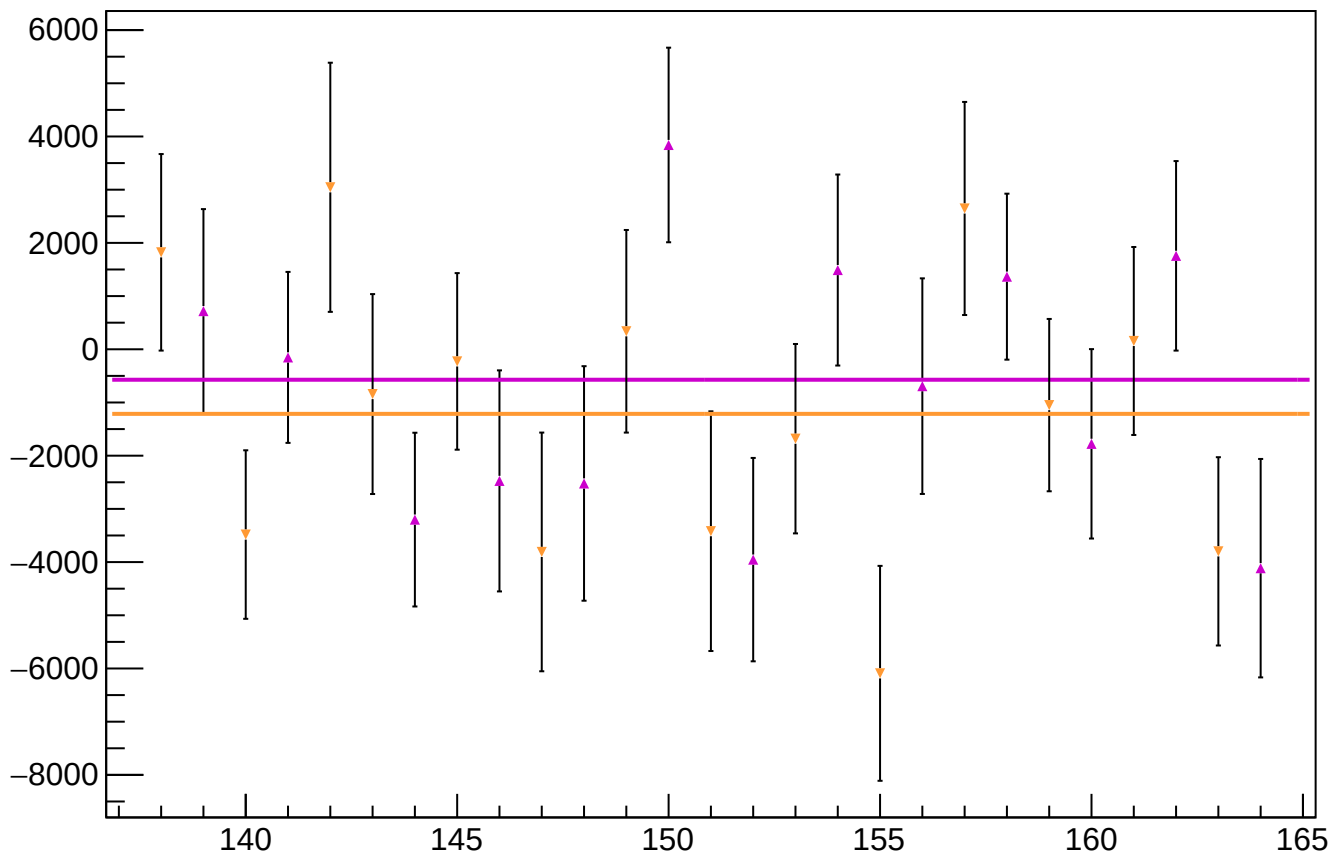
In: 220.263 $\pm$ 0.048  $\chi^2/\text{NDF}$ :104919.3/12

Out: 216.246 $\pm$ 0.047  $\chi^2/\text{NDF}$ :106456.1/13

All: 218.201 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 214914.0/26



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: -1213.846+/-498.590  $\chi^2/\text{NDF}$ :23.8/13

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

Left In: -572.434+/-507.851  $\chi^2/\text{NDF}$ :21.7/12

Left: -899.042+/-355.785  $\chi^2/\text{NDF}$ : 46.3/26

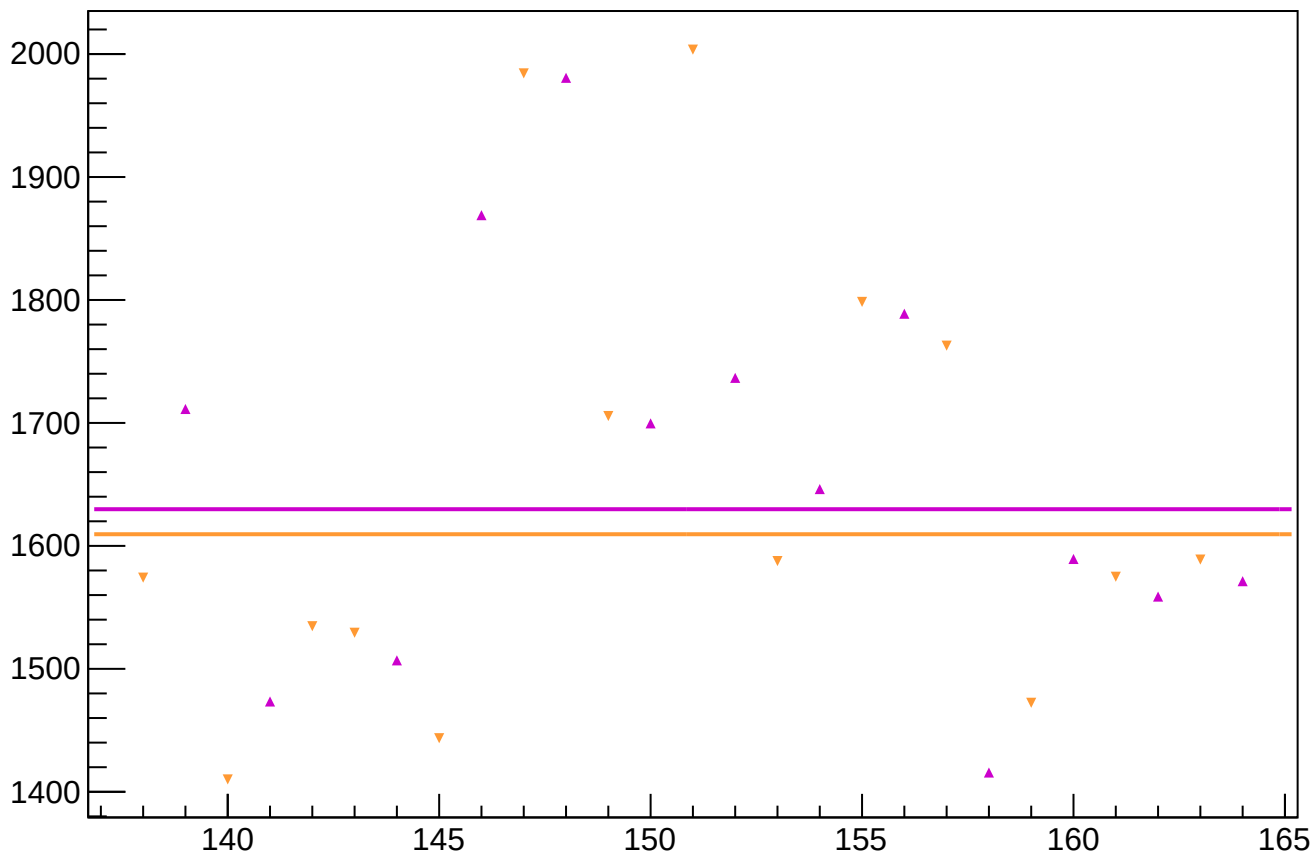
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -572.434+/-507.851  $\chi^2/\text{NDF}$ :21.7/12

Out: -1213.846+/-498.590  $\chi^2/\text{NDF}$ :23.8/13

All: -899.042+/-355.785  $\chi^2/\text{NDF}$ : 46.3/26

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: 1609.482+/-0.353  $\chi^2/\text{NDF}$ :225122.6/13

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

Left In: 1629.832+/-0.359  $\chi^2/\text{NDF}$ :176240.2/12

Left: 1619.469+/-0.252  $\chi^2/\text{NDF}$ : 402998.0/26

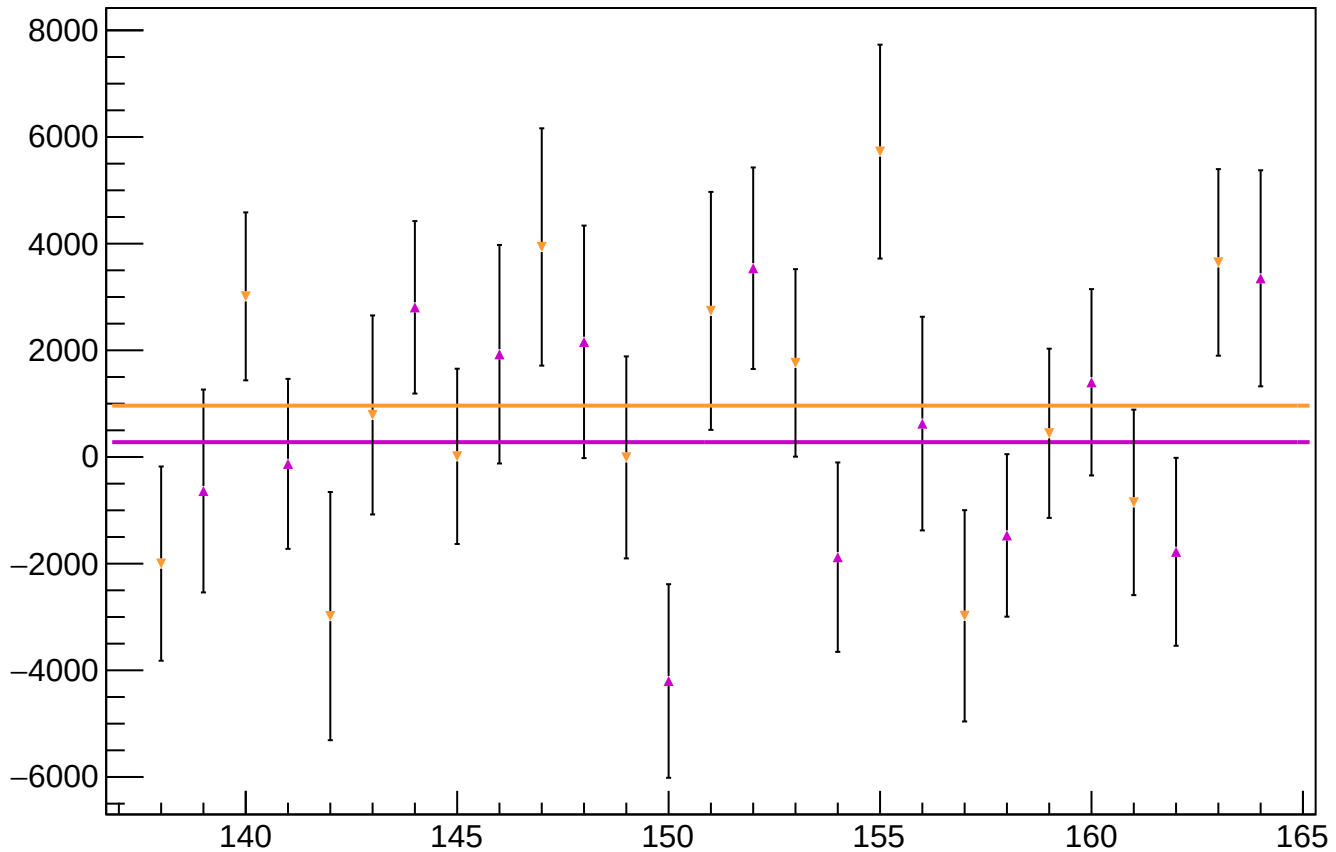
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1629.832+/-0.359  $\chi^2/\text{NDF}$ :176240.2/12

Out: 1609.482+/-0.353  $\chi^2/\text{NDF}$ :225122.6/13

All: 1619.469+/-0.252  $\chi^2/\text{NDF}$ : 402998.0/26

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 962.839+/-493.210  $\chi^2/\text{NDF}$ :23.6/13

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

Left In: 277.948+/-501.517  $\chi^2/\text{NDF}$ :20.1/12

Left: 626.112+/-351.652  $\chi^2/\text{NDF}$ : 44.6/26

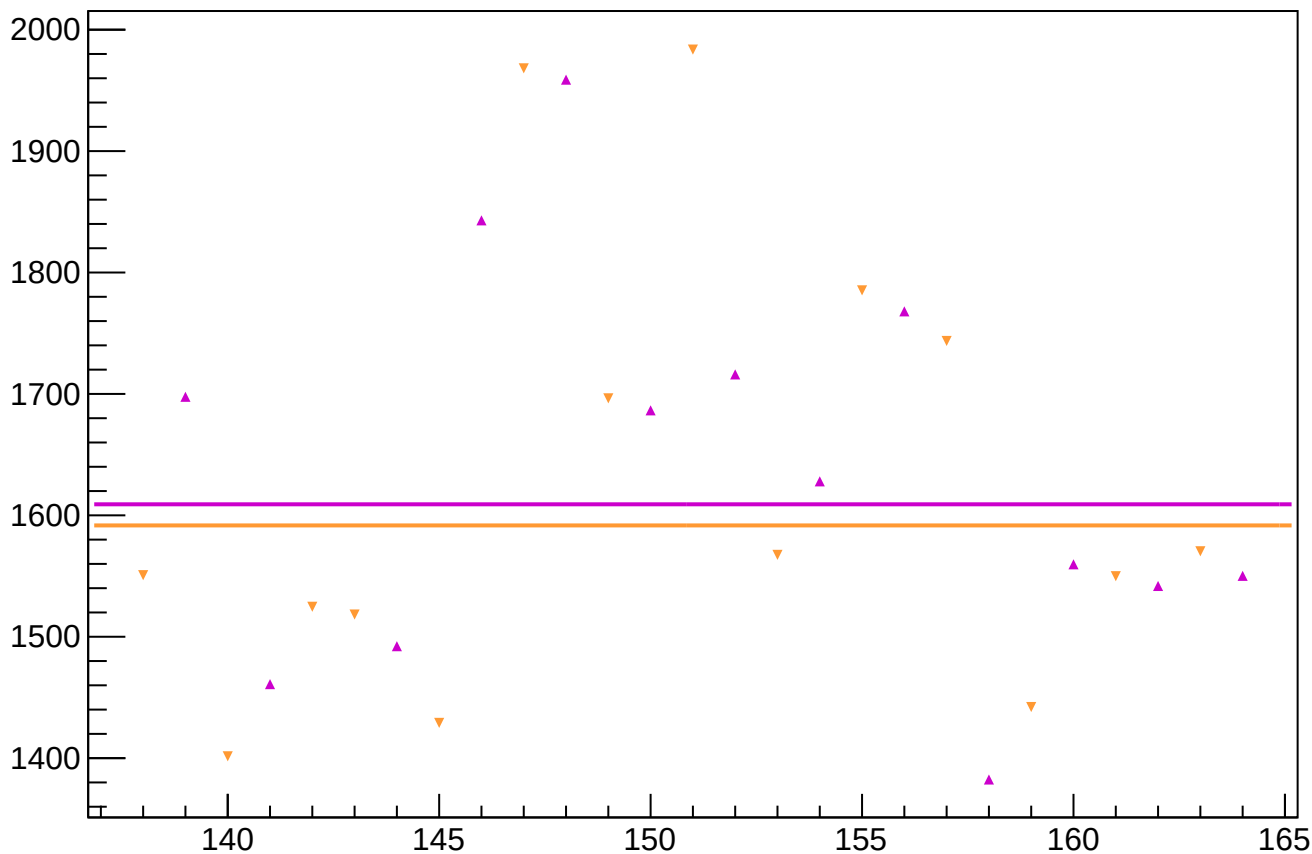
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 277.948+/-501.517  $\chi^2/\text{NDF}$ :20.1/12

Out: 962.839+/-493.210  $\chi^2/\text{NDF}$ :23.6/13

All: 626.112+/-351.652  $\chi^2/\text{NDF}$ : 44.6/26

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1591.696+/-0.349  $\chi^2/\text{NDF}$ :229629.5/13

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

Left In: 1609.091+/-0.355  $\chi^2/\text{NDF}$ :182951.2/12

Left: 1600.248+/-0.249  $\chi^2/\text{NDF}$ : 413803.8/26

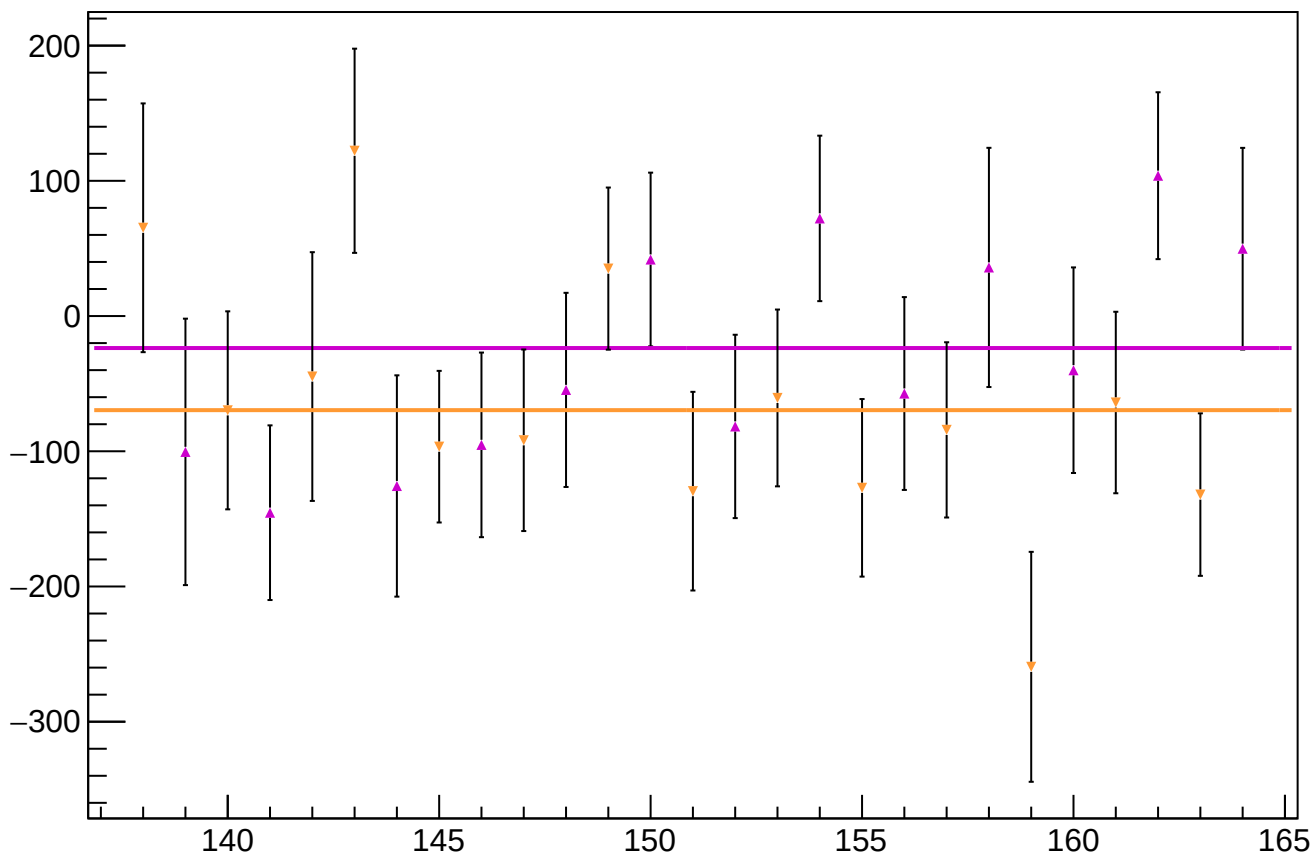
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1609.091+/-0.355  $\chi^2/\text{NDF}$ :182951.2/12

Out: 1591.696+/-0.349  $\chi^2/\text{NDF}$ :229629.5/13

All: 1600.248+/-0.249  $\chi^2/\text{NDF}$ : 413803.8/26

dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -69.593+/-18.433  $\chi^2/\text{NDF}$ :19.6/13

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

Left In: -23.661+/-19.735  $\chi^2/\text{NDF}$ :17.2/12

Left: -48.192+/-13.471  $\chi^2/\text{NDF}$ : 39.7/26

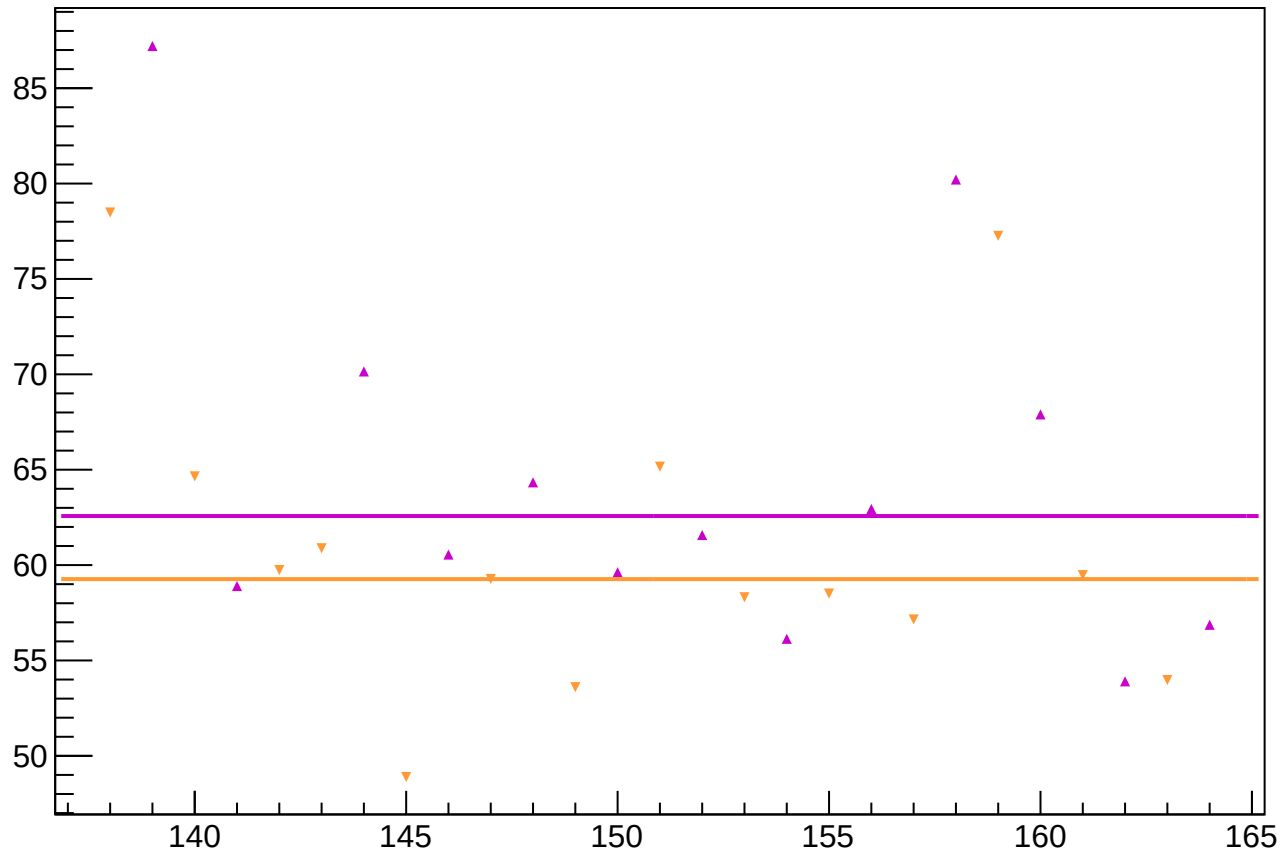
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -23.661+/-19.735  $\chi^2/\text{NDF}$ :17.2/12

Out: -69.593+/-18.433  $\chi^2/\text{NDF}$ :19.6/13

All: -48.192+/-13.471  $\chi^2/\text{NDF}$ : 39.7/26

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: 59.265+/-0.013  $\chi^2/\text{NDF}$ :306255.7/13

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

Left In: 62.571+/-0.014  $\chi^2/\text{NDF}$ :318987.0/12

Left: 60.806+/-0.010  $\chi^2/\text{NDF}$ : 655217.9/26

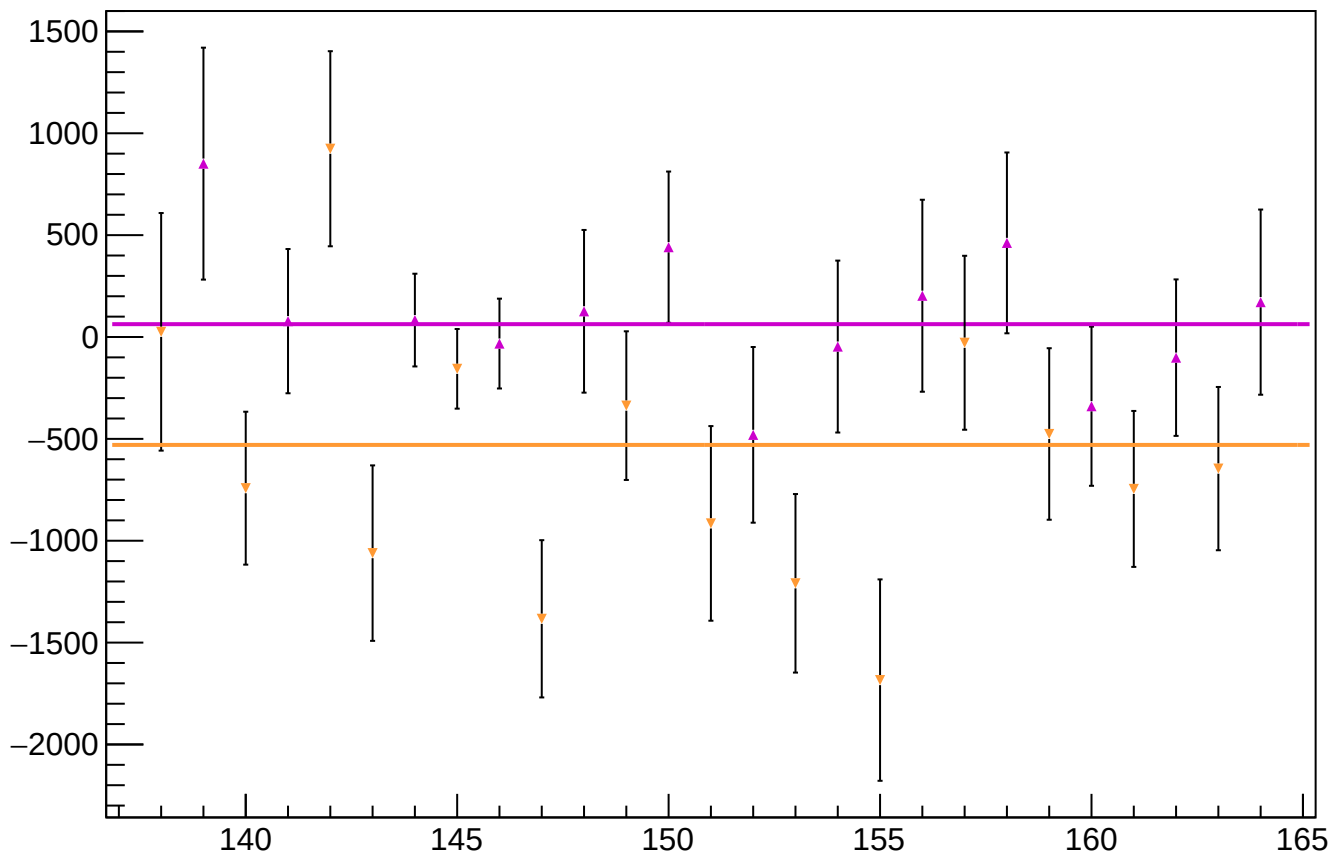
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 62.571+/-0.014  $\chi^2/\text{NDF}$ :318987.0/12

Out: 59.265+/-0.013  $\chi^2/\text{NDF}$ :306255.7/13

All: 60.806+/-0.010  $\chi^2/\text{NDF}$ : 655217.9/26

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: -529.685+/-100.986  $\chi^2/\text{NDF}$ :31.1/13

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

Left In: 63.031+/-98.424  $\chi^2/\text{NDF}$ :7.0/12

Left: -225.713+/-70.485  $\chi^2/\text{NDF}$ : 55.8/26

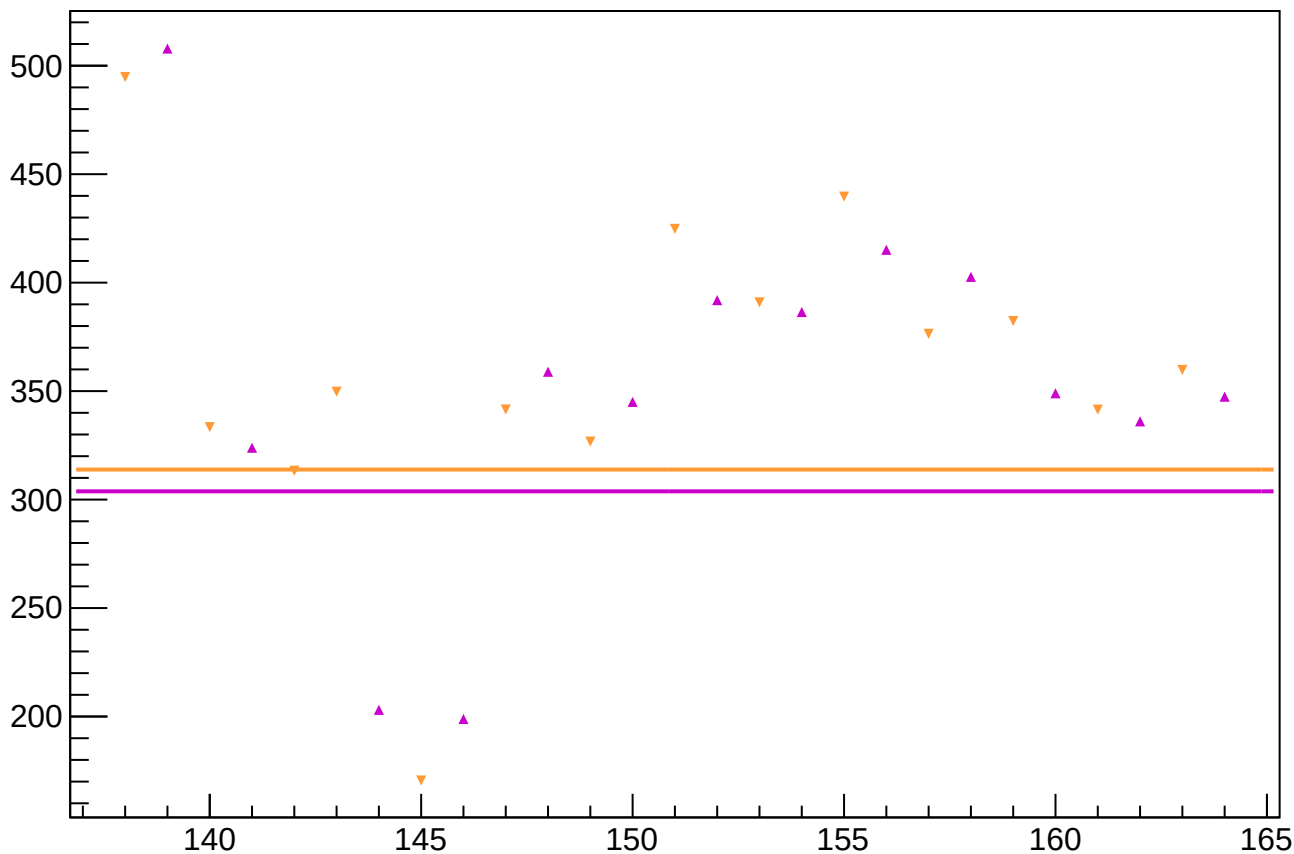
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 63.031+/-98.424  $\chi^2/\text{NDF}$ :7.0/12

Out: -529.685+/-100.986  $\chi^2/\text{NDF}$ :31.1/13

All: -225.713+/-70.485  $\chi^2/\text{NDF}$ : 55.8/26

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: 313.841+/-0.071  $\chi^2/\text{NDF}$ :1731738.8/13

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

Left In: 303.800+/-0.070  $\chi^2/\text{NDF}$ :1601953.8/12

Left: 308.692+/-0.050  $\chi^2/\text{NDF}$ : 3343834.1/26

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

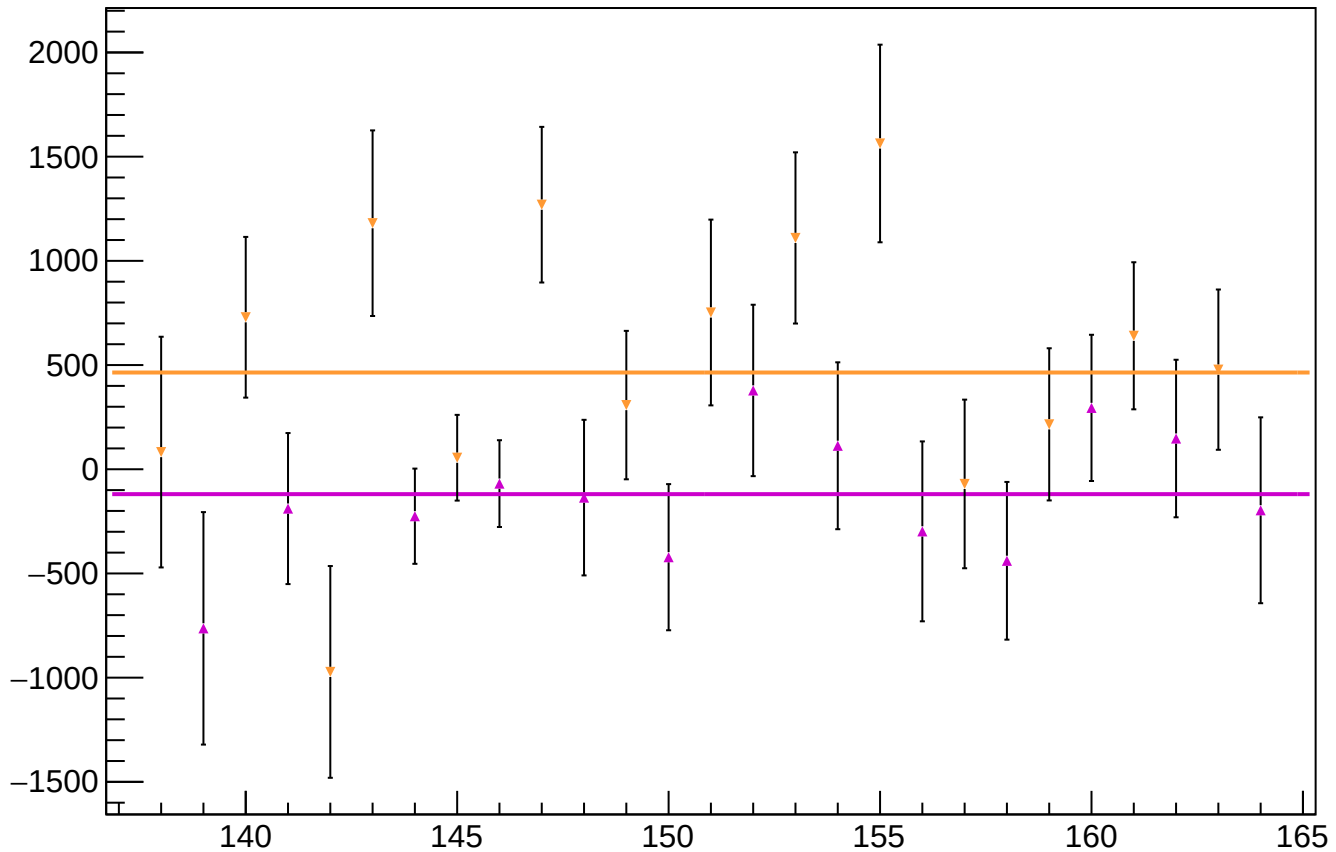
In: 303.800+/-0.070  $\chi^2/\text{NDF}$ :1601953.8/12

Out: 313.841+/-0.071  $\chi^2/\text{NDF}$ :1731738.8/13

All: 308.692+/-0.050  $\chi^2/\text{NDF}$ : 3343834.1/26



# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 464.230+/-99.299  $\chi^2/\text{NDF}$ :31.1/13

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

Left In: -119.432+/-94.067  $\chi^2/\text{NDF}$ :7.0/12

Left: 156.615+/-68.290  $\chi^2/\text{NDF}$ : 56.3/26

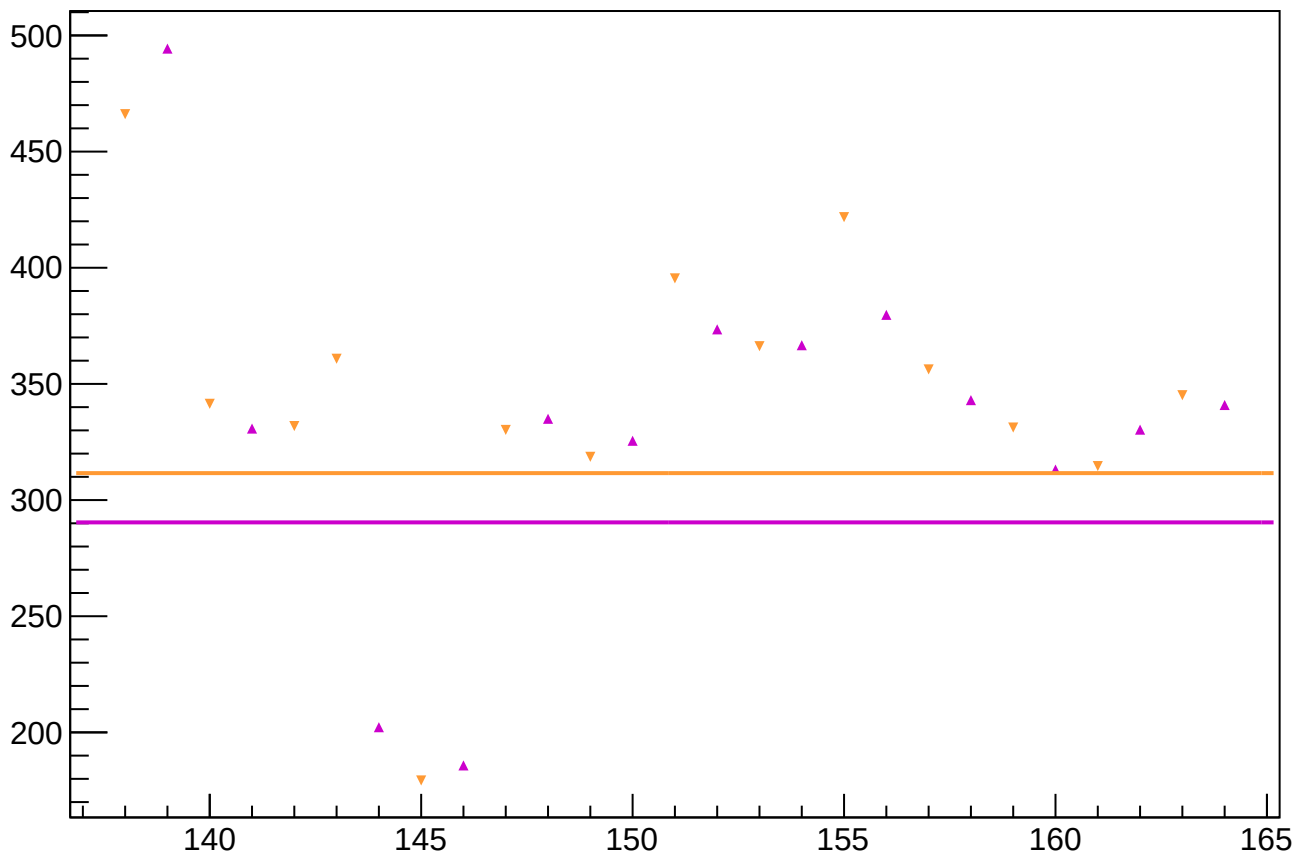
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -119.432+/-94.067  $\chi^2/\text{NDF}$ :7.0/12

Out: 464.230+/-99.299  $\chi^2/\text{NDF}$ :31.1/13

All: 156.615+/-68.290  $\chi^2/\text{NDF}$ : 56.3/26

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 311.601+/-0.070  $\chi^2/\text{NDF}$ :1288263.4/13

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

Left In: 290.394+/-0.067  $\chi^2/\text{NDF}$ :1478434.8/12

Left: 300.424+/-0.048  $\chi^2/\text{NDF}$ : 2814776.2/26

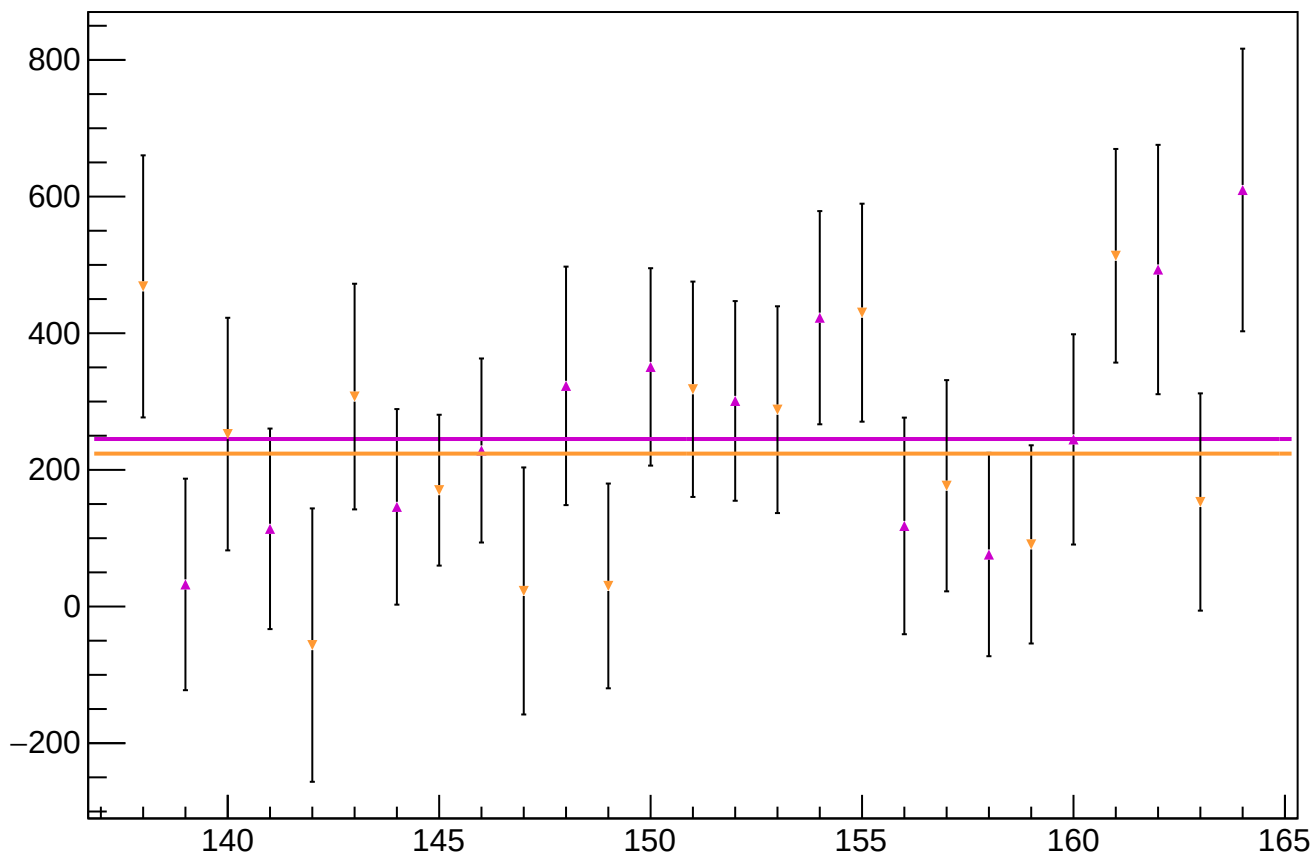
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 290.394+/-0.067  $\chi^2/\text{NDF}$ :1478434.8/12

Out: 311.601+/-0.070  $\chi^2/\text{NDF}$ :1288263.4/13

All: 300.424+/-0.048  $\chi^2/\text{NDF}$ : 2814776.2/26

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 223.806 $\pm$ 41.753  $\chi^2$ /NDF:13.8/13

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

Left In: 245.184 $\pm$ 42.979  $\chi^2$ /NDF:12.3/12

Left: 234.186 $\pm$ 29.948  $\chi^2$ /NDF: 26.2/26

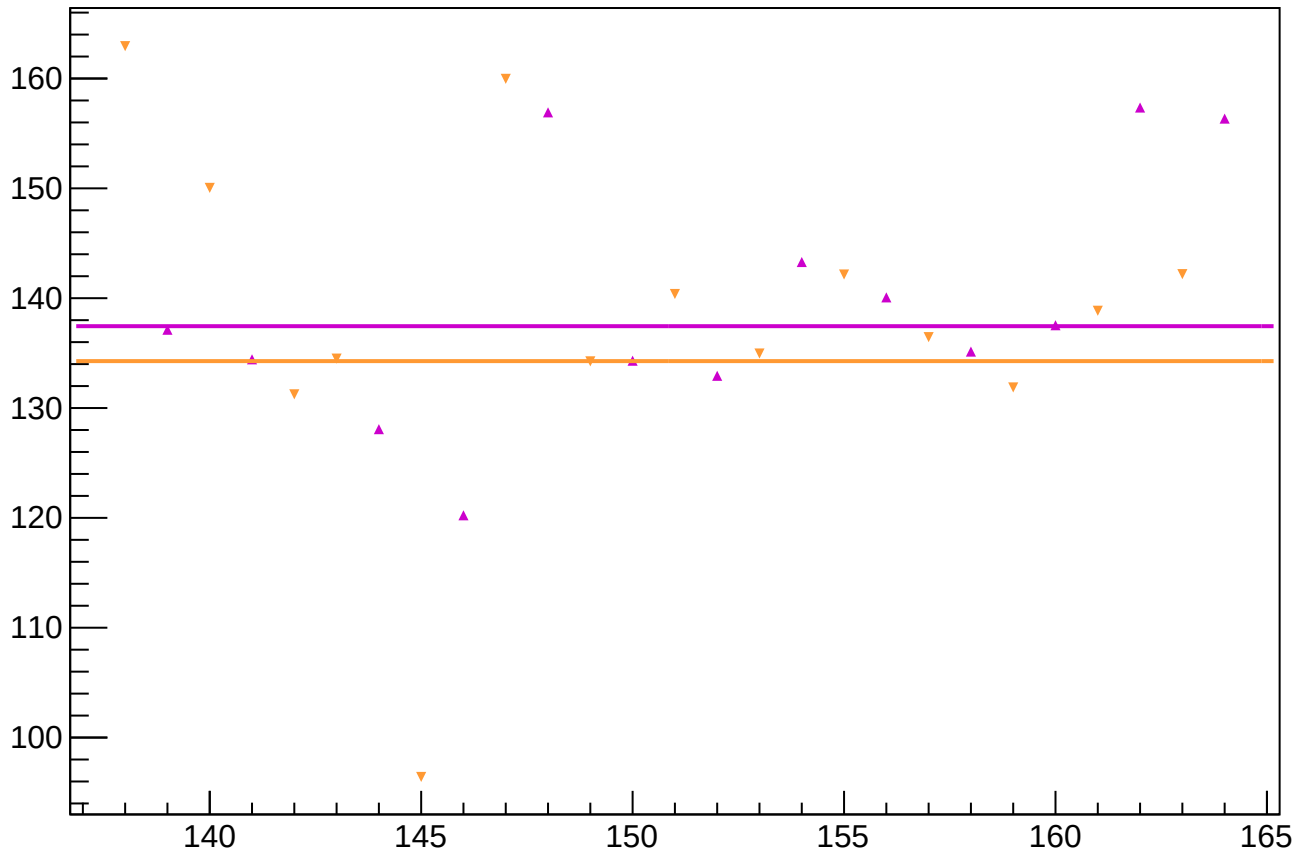
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 245.184 $\pm$ 42.979  $\chi^2$ /NDF:12.3/12

Out: 223.806 $\pm$ 41.753  $\chi^2$ /NDF:13.8/13

All: 234.186 $\pm$ 29.948  $\chi^2$ /NDF: 26.2/26

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 134.271+/-0.030  $\chi^2/NDF$ :353502.6/13

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

Left In: 137.452+/-0.030  $\chi^2/NDF$ :114199.4/12

Left: 135.816+/-0.021  $\chi^2/NDF$ : 473337.6/26

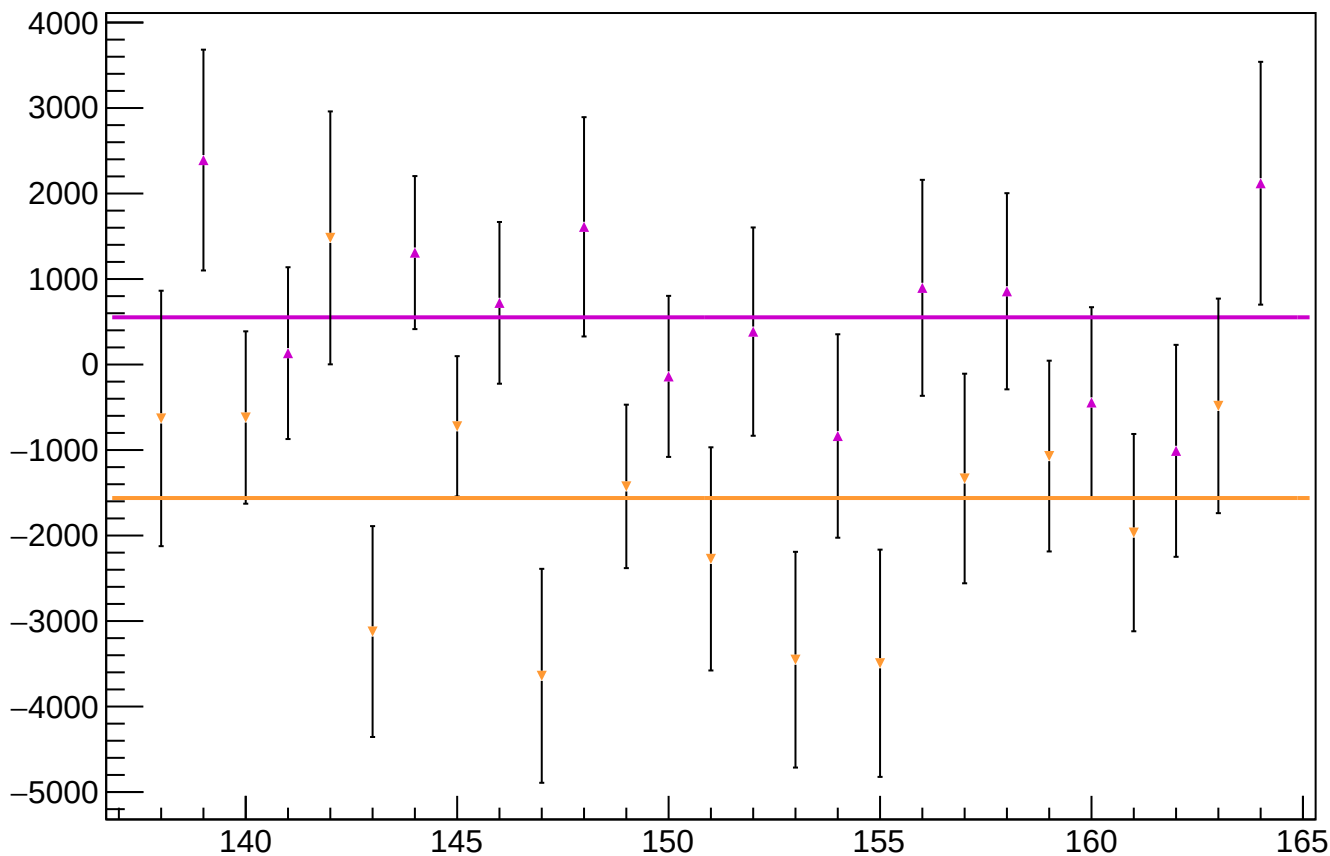
Right: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

In: 137.452+/-0.030  $\chi^2/NDF$ :114199.4/12

Out: 134.271+/-0.030  $\chi^2/NDF$ :353502.6/13

All: 135.816+/-0.021  $\chi^2/NDF$ : 473337.6/26

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: -1561.339+/-310.053  $\chi^2/\text{NDF}$ :16.7/13

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

Left In: 552.229+/-309.904  $\chi^2/\text{NDF}$ :9.3/12

Left: -504.045+/-219.188  $\chi^2/\text{NDF}$ : 49.2/26

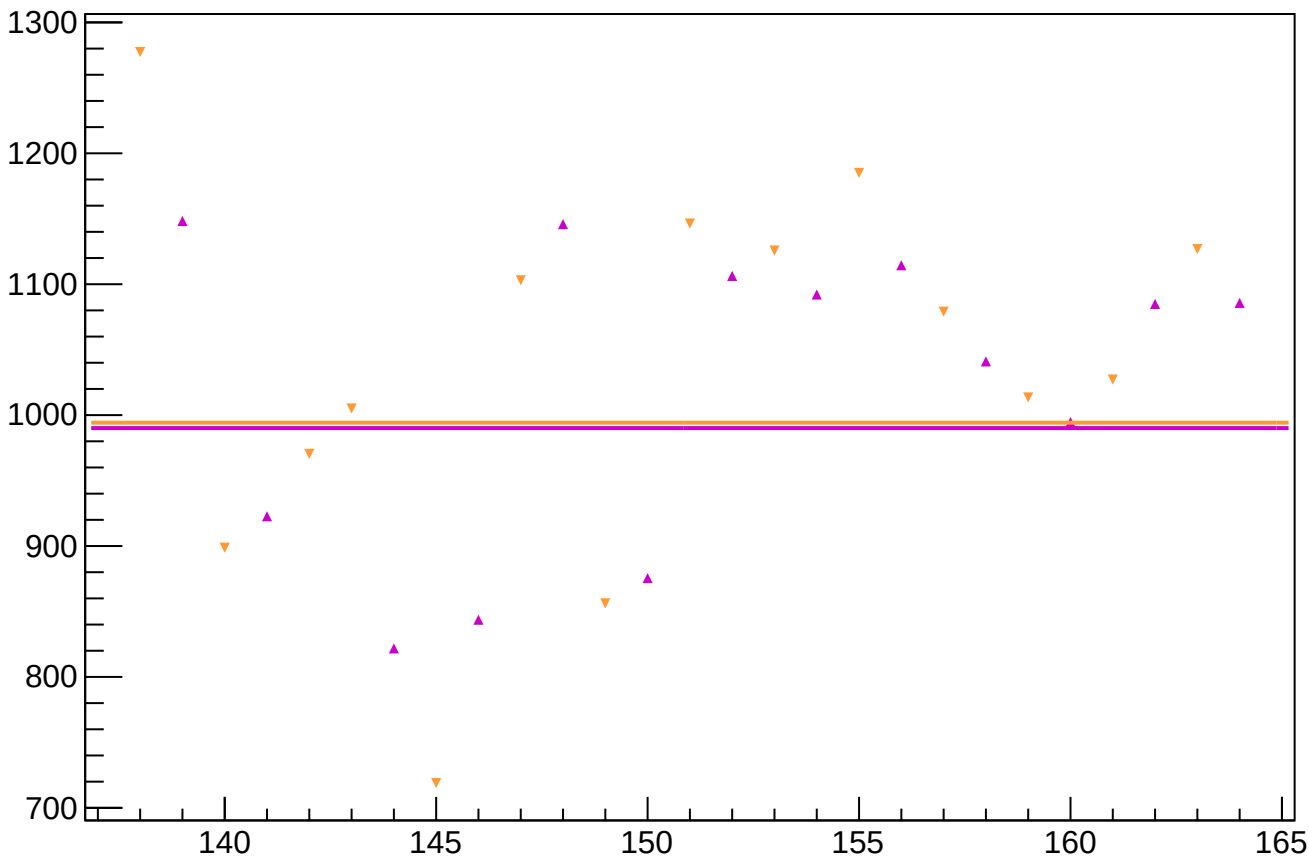
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 552.229+/-309.904  $\chi^2/\text{NDF}$ :9.3/12

Out: -1561.339+/-310.053  $\chi^2/\text{NDF}$ :16.7/13

All: -504.045+/-219.188  $\chi^2/\text{NDF}$ : 49.2/26

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: 994.202+/-0.219  $\chi^2/\text{NDF}$ :496570.4/13

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

Left In: 990.092+/-0.219  $\chi^2/\text{NDF}$ :293895.7/12

Left: 992.146+/-0.155  $\chi^2/\text{NDF}$ : 790642.0/26

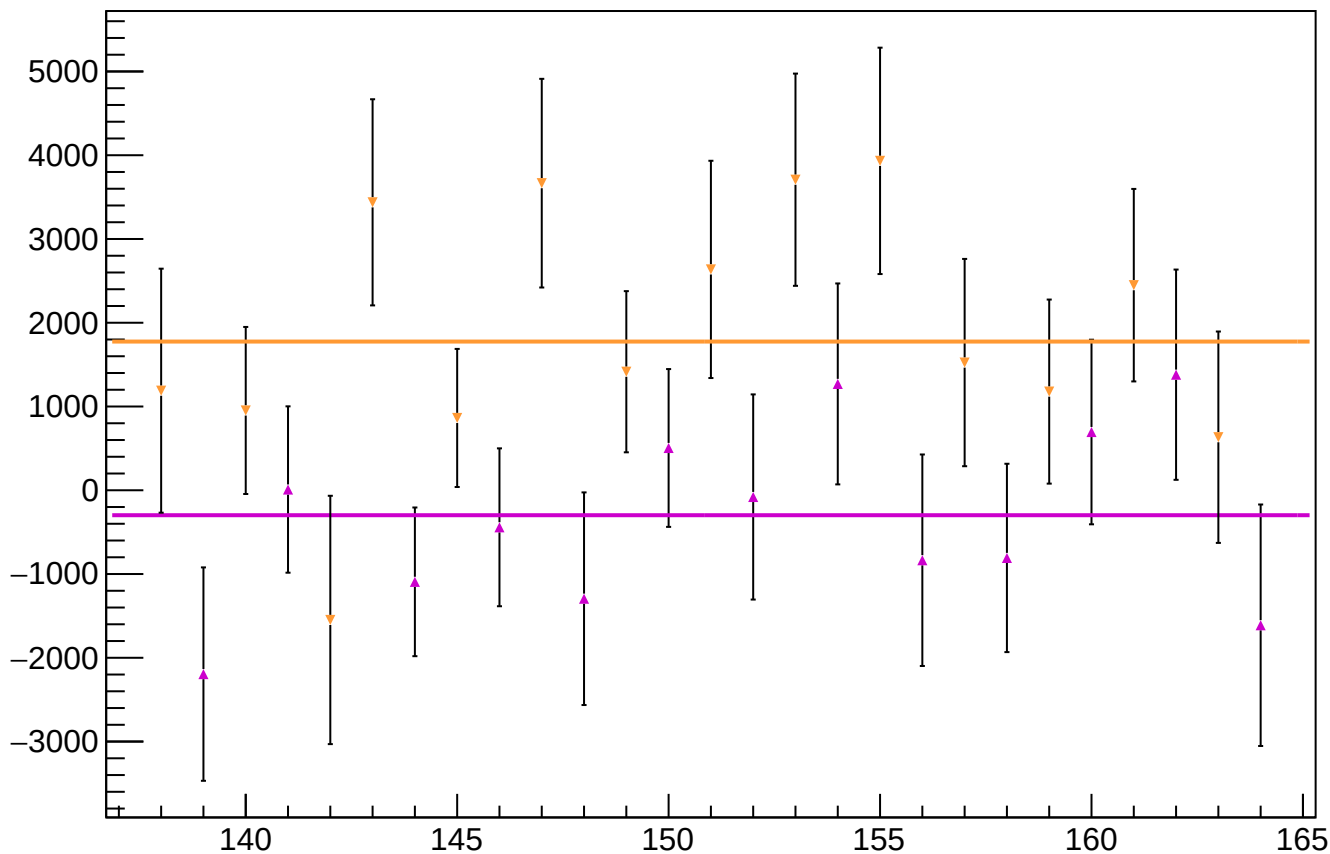
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 990.092+/-0.219  $\chi^2/\text{NDF}$ :293895.7/12

Out: 994.202+/-0.219  $\chi^2/\text{NDF}$ :496570.4/13

All: 992.146+/-0.155  $\chi^2/\text{NDF}$ : 790642.0/26

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 1775.402+/-309.782  $\chi^2/\text{NDF}$ :18.2/13

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

Left In: -297.847+/-308.720  $\chi^2/\text{NDF}$ :10.0/12

Left: 735.216+/-218.672  $\chi^2/\text{NDF}$ : 50.7/26

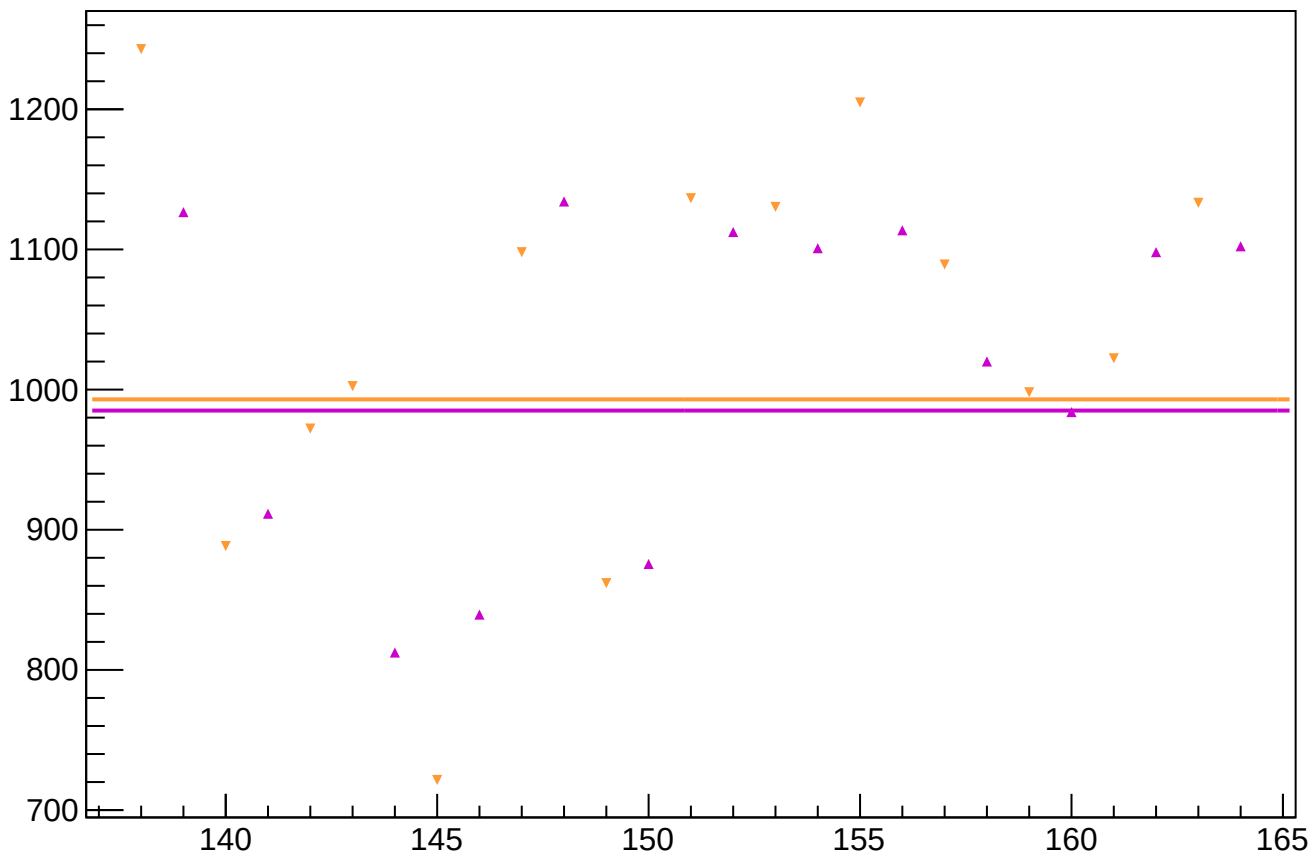
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -297.847+/-308.720  $\chi^2/\text{NDF}$ :10.0/12

Out: 1775.402+/-309.782  $\chi^2/\text{NDF}$ :18.2/13

All: 735.216+/-218.672  $\chi^2/\text{NDF}$ : 50.7/26

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 993.018+/-0.219  $\chi^2/\text{NDF}$ : 485054.3/13

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

Left In: 985.046+/-0.218  $\chi^2/\text{NDF}$ : 306093.7/12

Left: 989.018+/-0.155  $\chi^2/\text{NDF}$ : 791812.7/26

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

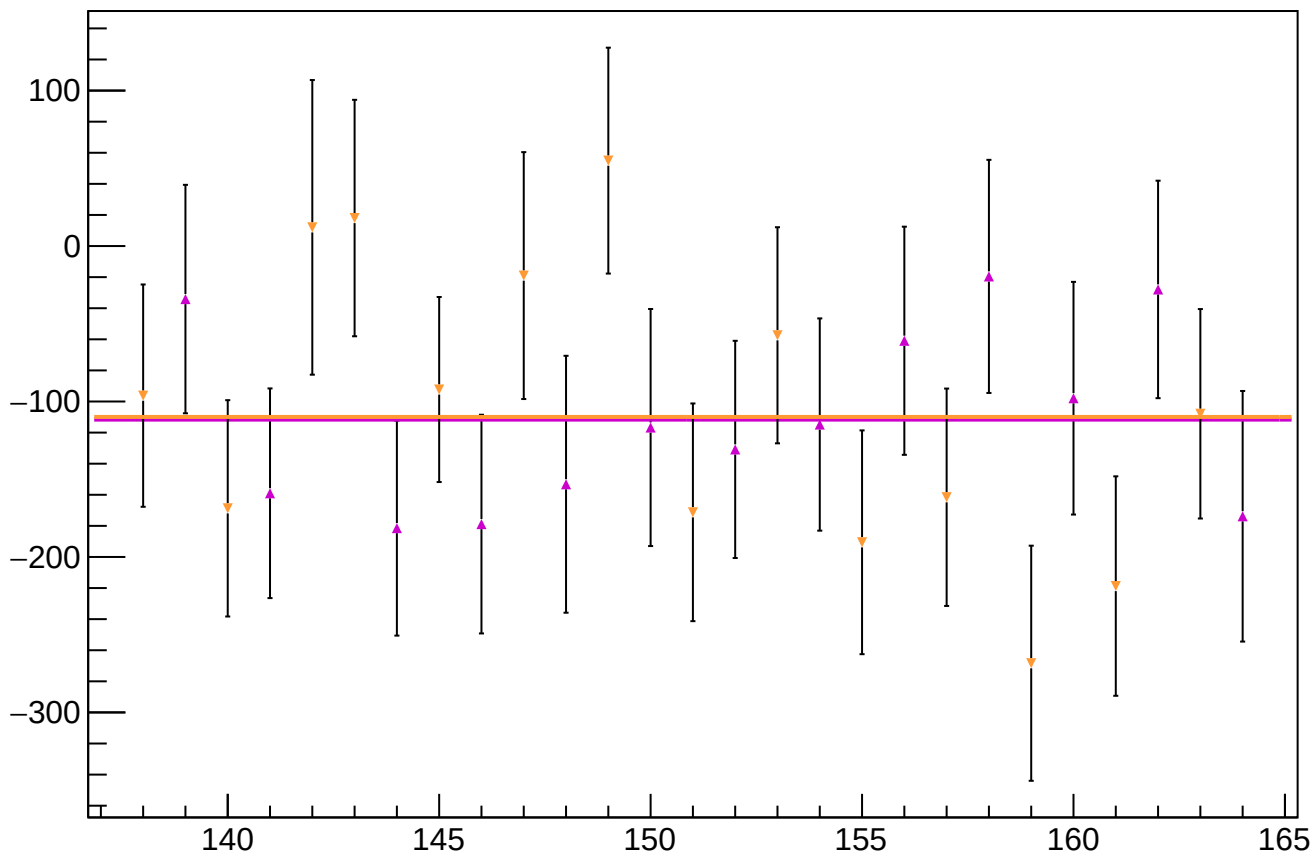
In: 985.046+/-0.218  $\chi^2/\text{NDF}$ : 306093.7/12

Out: 993.018+/-0.219  $\chi^2/\text{NDF}$ : 485054.3/13

All: 989.018+/-0.155  $\chi^2/\text{NDF}$ : 791812.7/26



dit\_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: -109.929+/-19.169  $\chi^2/\text{NDF}$ :21.7/13

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

Left In: -111.649+/-20.183  $\chi^2/\text{NDF}$ :7.9/12

Left: -110.745+/-13.899  $\chi^2/\text{NDF}$ : 29.6/26

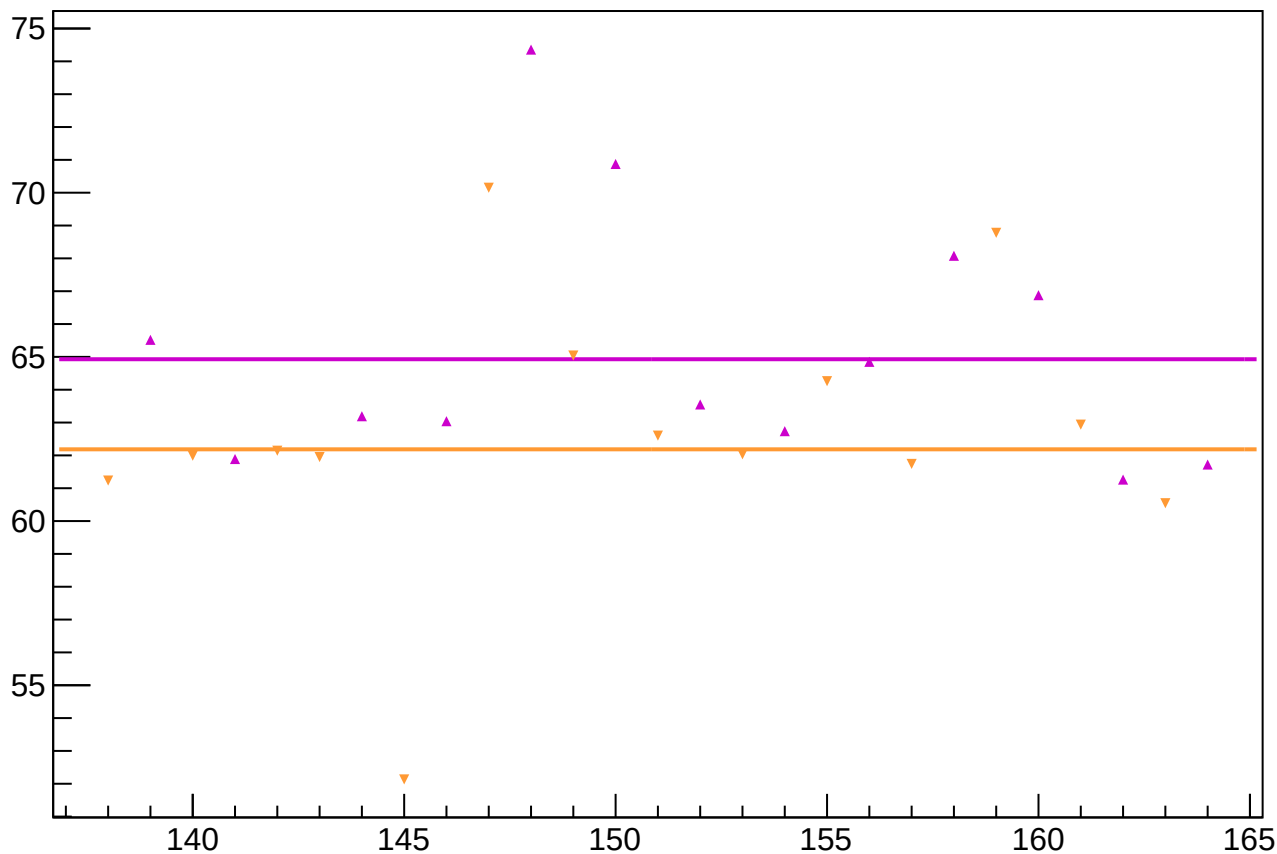
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -111.649+/-20.183  $\chi^2/\text{NDF}$ :7.9/12

Out: -109.929+/-19.169  $\chi^2/\text{NDF}$ :21.7/13

All: -110.745+/-13.899  $\chi^2/\text{NDF}$ : 29.6/26

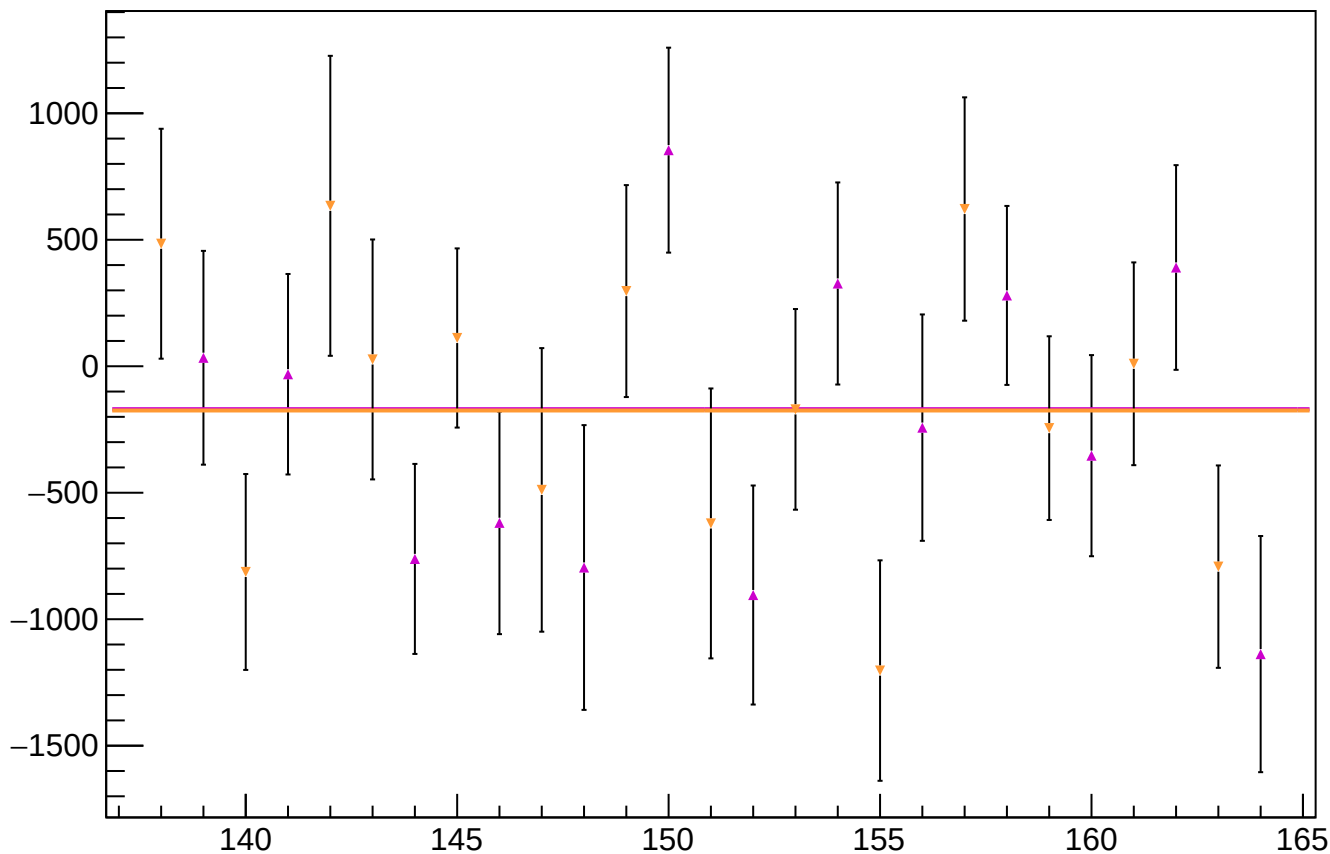
dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 62.185+/-0.014  $\chi^2/\text{NDF}$ :99119.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 64.928+/-0.014  $\chi^2/\text{NDF}$ :61485.3/12

Left: 63.486+/-0.010  $\chi^2/\text{NDF}$ : 180032.4/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 64.928+/-0.014  $\chi^2/\text{NDF}$ :61485.3/12  
 Out: 62.185+/-0.014  $\chi^2/\text{NDF}$ :99119.2/13  
 All: 63.486+/-0.010  $\chi^2/\text{NDF}$ : 180032.4/26

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: -174.825+/-114.723  $\chi^2/\text{NDF}$ :21.3/13

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

Left In: -169.617+/-115.408  $\chi^2/\text{NDF}$ :24.0/12

Left: -172.236+/-81.363  $\chi^2/\text{NDF}$ : 45.3/26

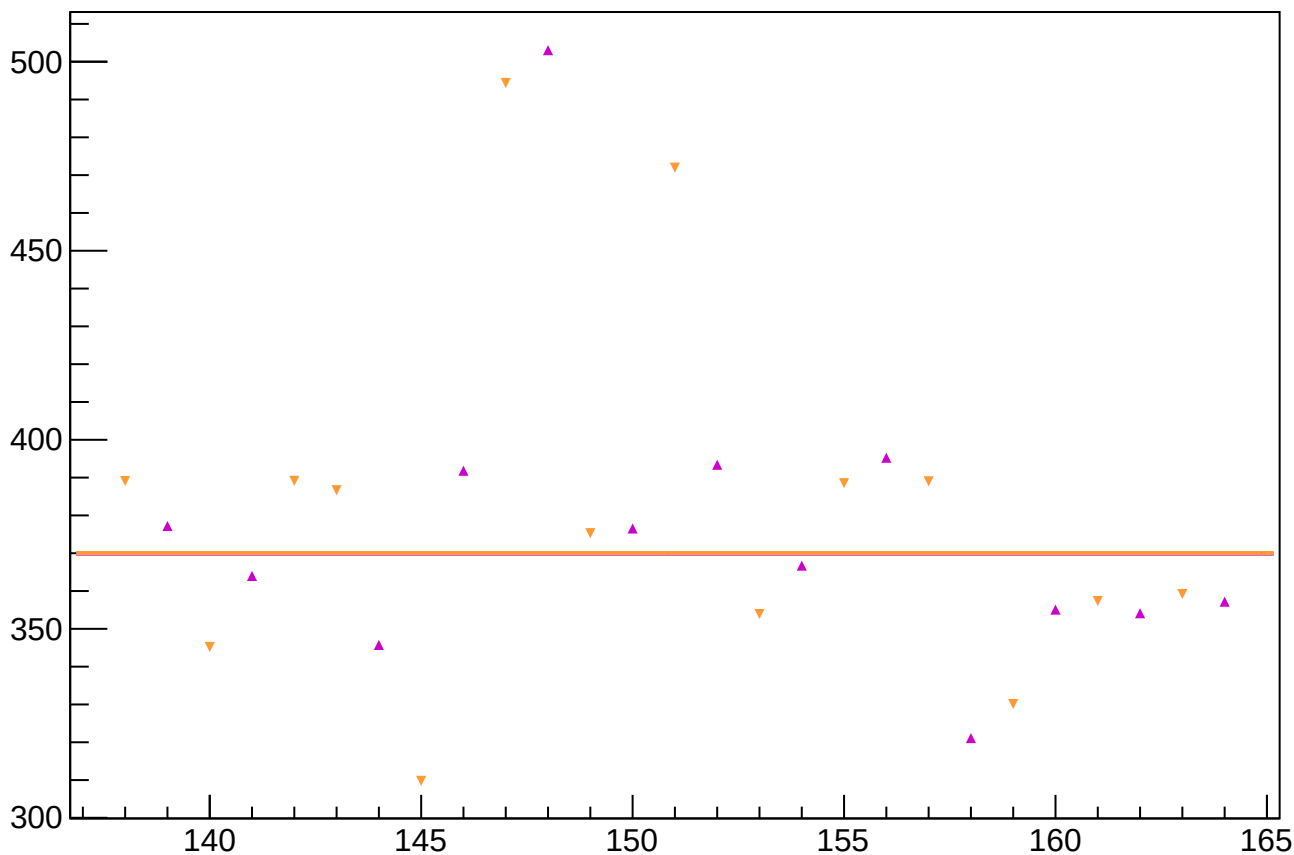
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -169.617+/-115.408  $\chi^2/\text{NDF}$ :24.0/12

Out: -174.825+/-114.723  $\chi^2/\text{NDF}$ :21.3/13

All: -172.236+/-81.363  $\chi^2/\text{NDF}$ : 45.3/26

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: 370.052+/-0.081  $\chi^2/\text{NDF}$ :284136.0/13

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

Left In: 369.896+/-0.082  $\chi^2/\text{NDF}$ :184528.0/12

Left: 369.974+/-0.058  $\chi^2/\text{NDF}$ : 468665.9/26

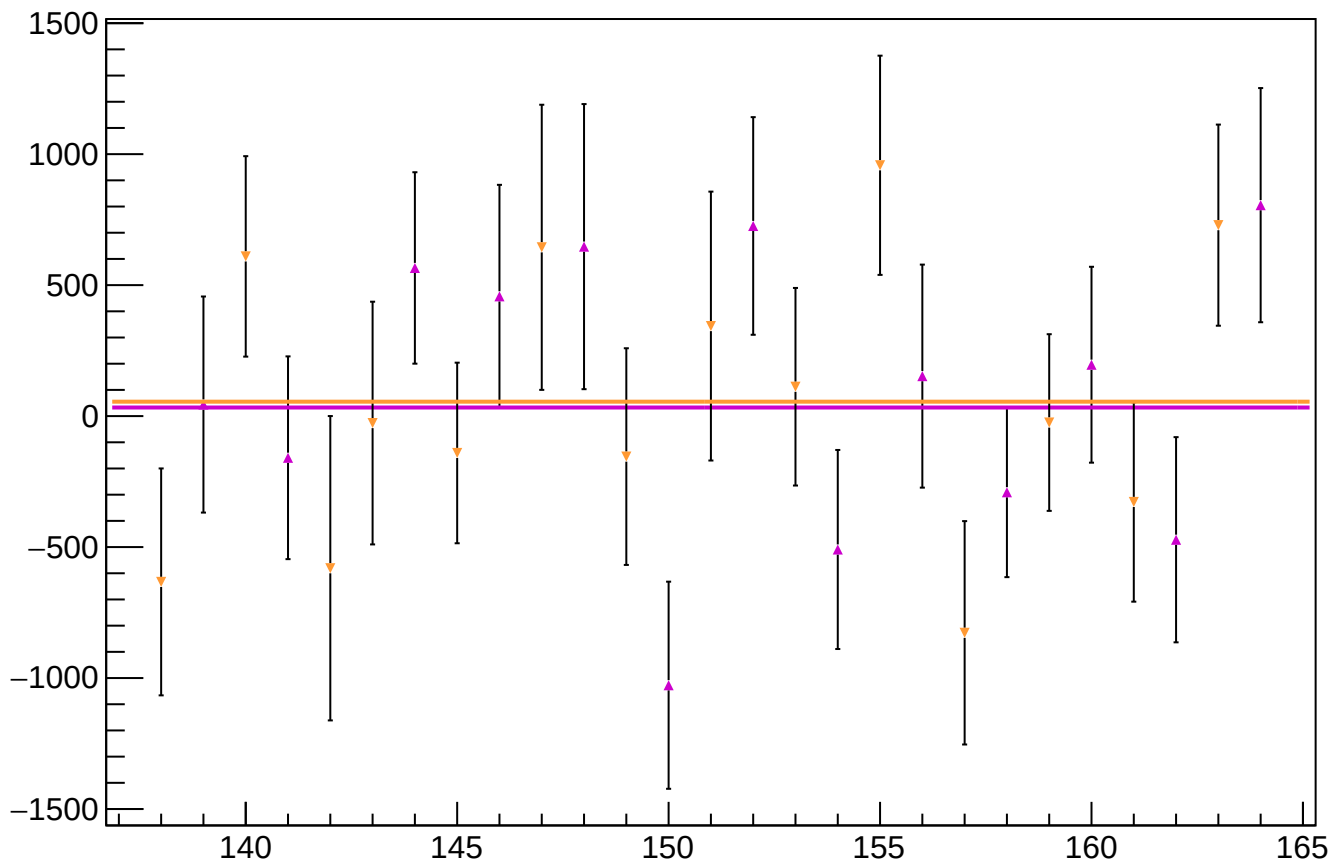
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 369.896+/-0.082  $\chi^2/\text{NDF}$ :184528.0/12

Out: 370.052+/-0.081  $\chi^2/\text{NDF}$ :284136.0/13

All: 369.974+/-0.058  $\chi^2/\text{NDF}$ : 468665.9/26

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: 55.056 $\pm$ 110.474  $\chi^2$ /NDF:21.0/13

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

Left In: 32.769 $\pm$ 110.581  $\chi^2$ /NDF:22.6/12

Left: 43.924 $\pm$ 78.155  $\chi^2$ /NDF: 43.6/26

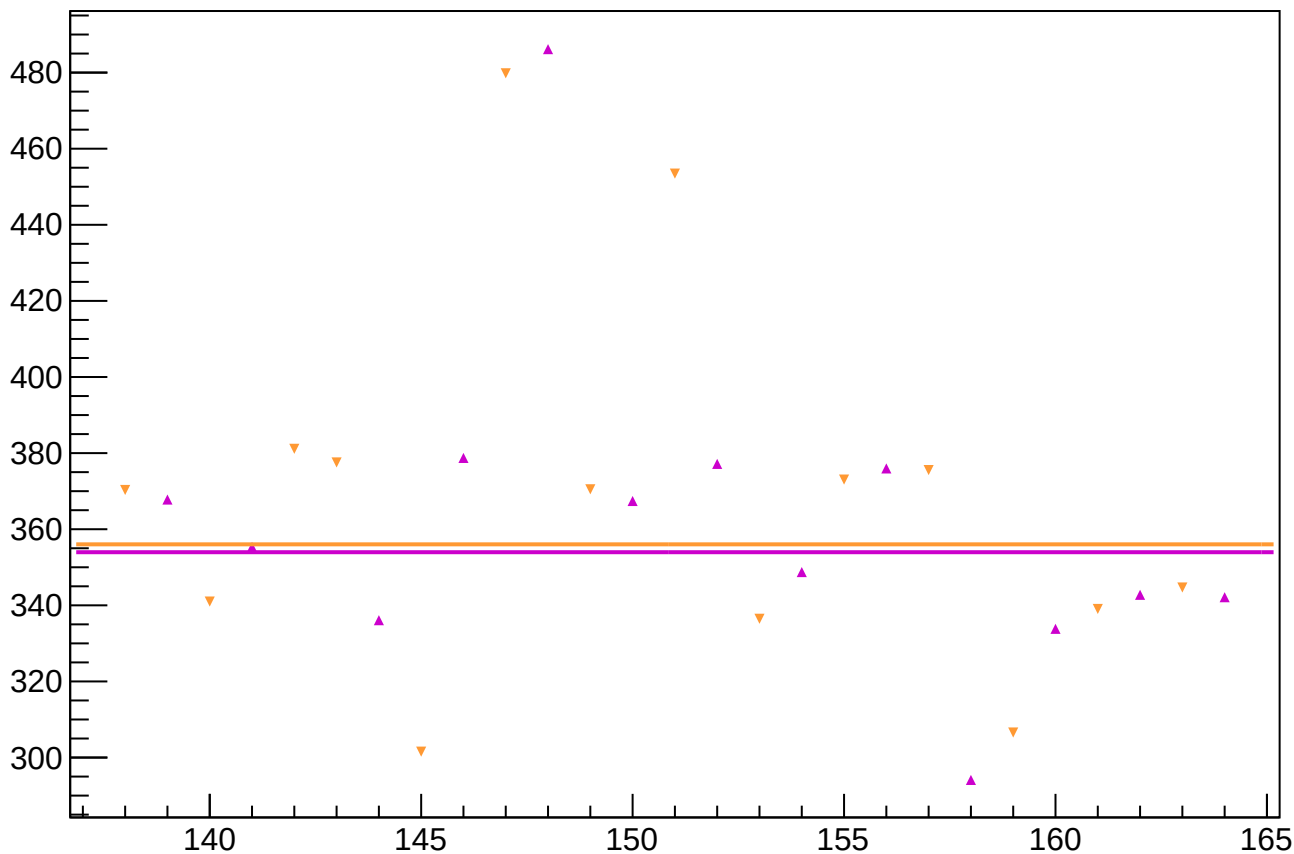
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 32.769 $\pm$ 110.581  $\chi^2$ /NDF:22.6/12

Out: 55.056 $\pm$ 110.474  $\chi^2$ /NDF:21.0/13

All: 43.924 $\pm$ 78.155  $\chi^2$ /NDF: 43.6/26

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: 356.028+/-0.078  $\chi^2/\text{NDF}$ :302847.9/13

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

Left In: 353.960+/-0.078  $\chi^2/\text{NDF}$ :223180.8/12

Left: 354.995+/-0.055  $\chi^2/\text{NDF}$ : 526379.0/26

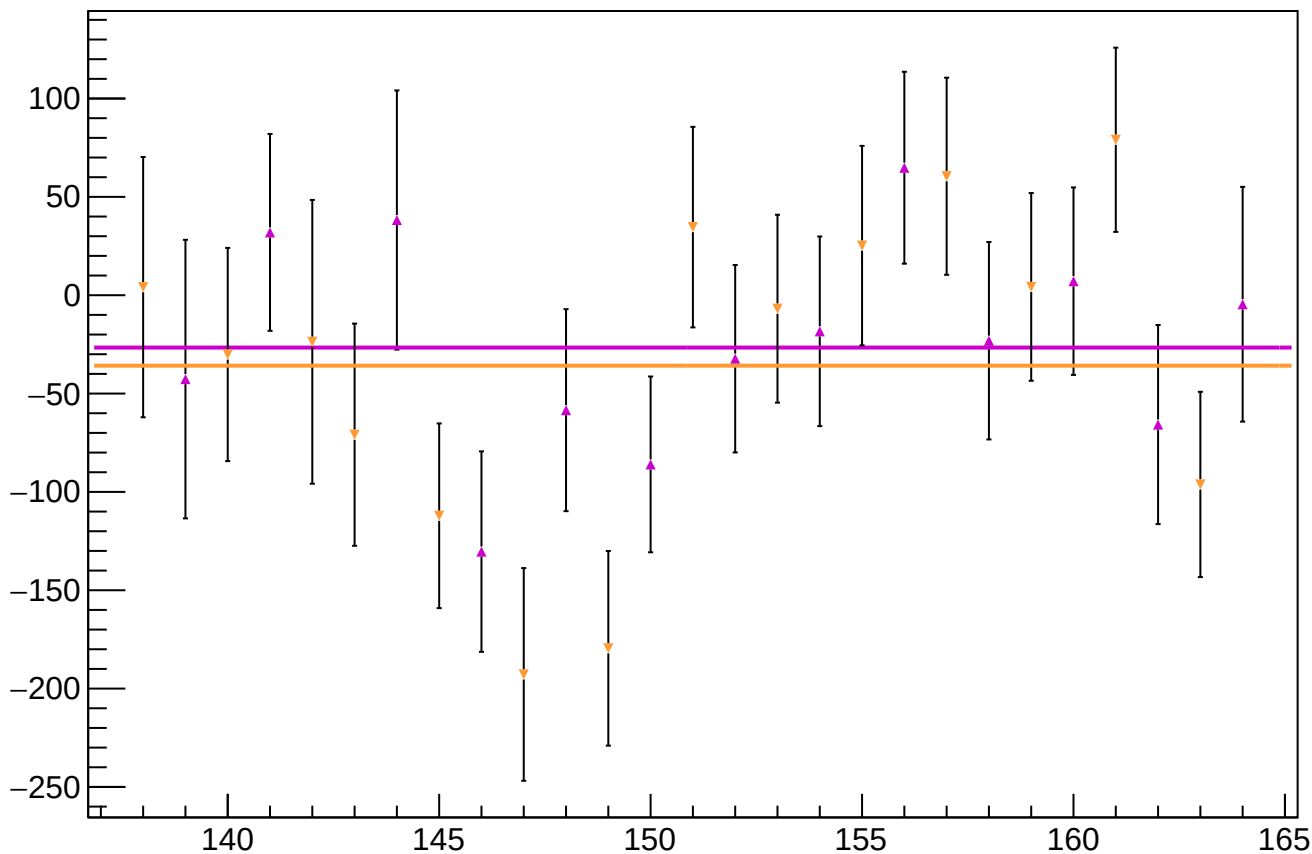
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 353.960+/-0.078  $\chi^2/\text{NDF}$ :223180.8/12

Out: 356.028+/-0.078  $\chi^2/\text{NDF}$ :302847.9/13

All: 354.995+/-0.055  $\chi^2/\text{NDF}$ : 526379.0/26

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -35.817+/-13.821  $\chi^2/\text{NDF}$ :36.1/13

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

Left In: -26.617+/-14.295  $\chi^2/\text{NDF}$ :13.5/12

Left: -31.372+/-9.936  $\chi^2/\text{NDF}$ : 49.8/26

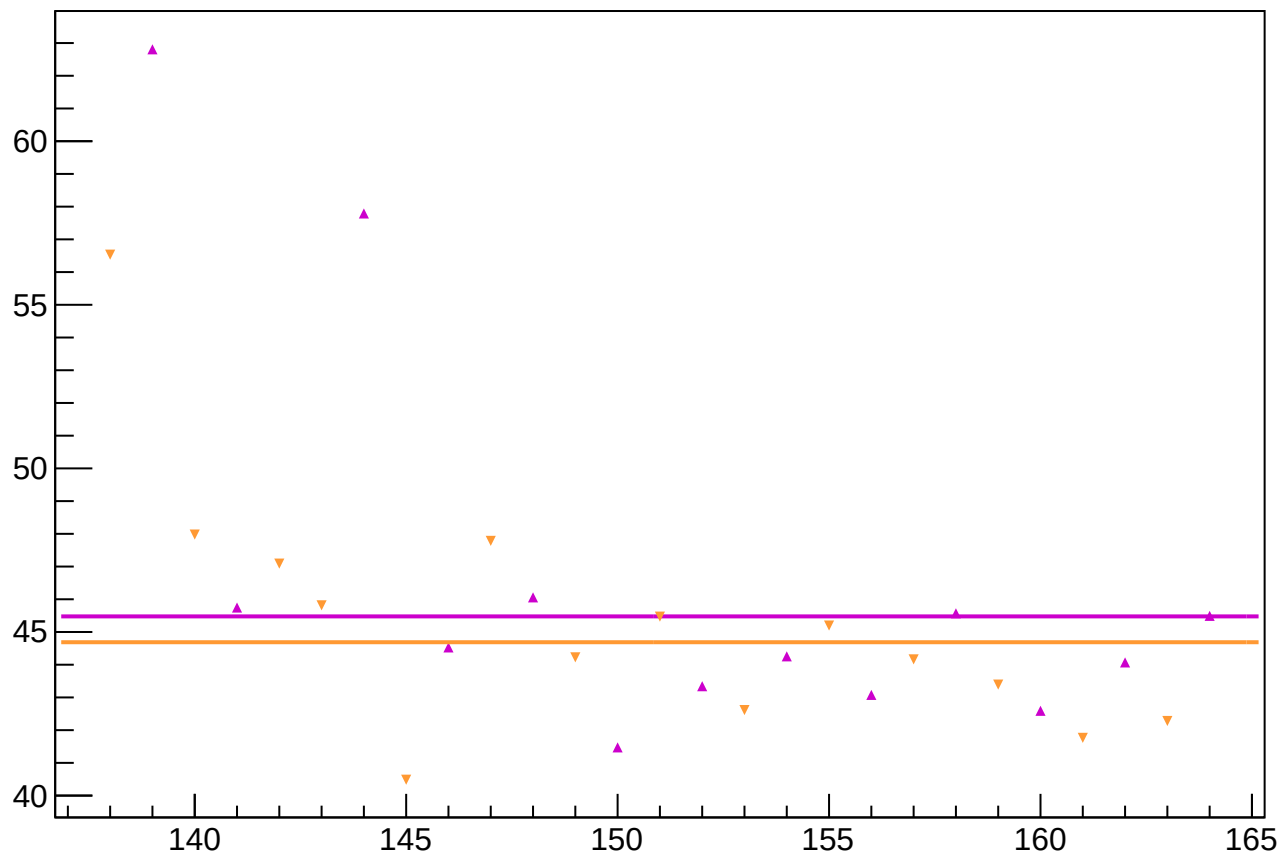
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -26.617+/-14.295  $\chi^2/\text{NDF}$ :13.5/12

Out: -35.817+/-13.821  $\chi^2/\text{NDF}$ :36.1/13

All: -31.372+/-9.936  $\chi^2/\text{NDF}$ : 49.8/26

dit\_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: 44.687 +/- 0.010  $\chi^2/\text{NDF}$ : 116389.3/13

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

Left In: 45.477 +/- 0.010  $\chi^2/\text{NDF}$ : 225732.8/12

Left: 45.069 +/- 0.007  $\chi^2/\text{NDF}$ : 345275.5/26

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

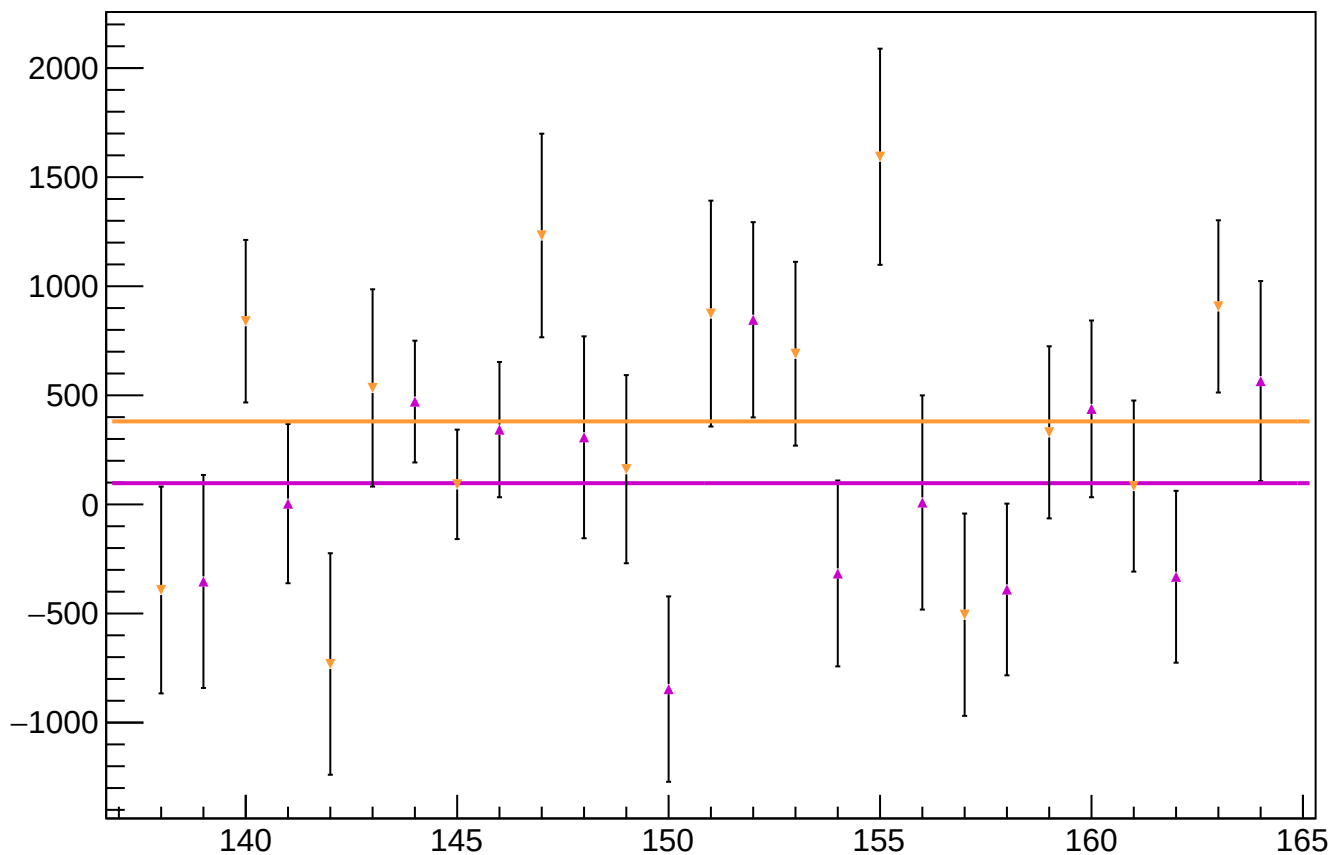
In: 45.477 +/- 0.010  $\chi^2/\text{NDF}$ : 225732.8/12

Out: 44.687 +/- 0.010  $\chi^2/\text{NDF}$ : 116389.3/13

All: 45.069 +/- 0.007  $\chi^2/\text{NDF}$ : 345275.5/26



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: 380.516+/-109.275  $\chi^2/\text{NDF}$ : 27.5/13

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

Left In: 97.383+/-109.385  $\chi^2/\text{NDF}$ : 16.7/12

Left: 239.092+/-77.308  $\chi^2/\text{NDF}$ : 47.6/26

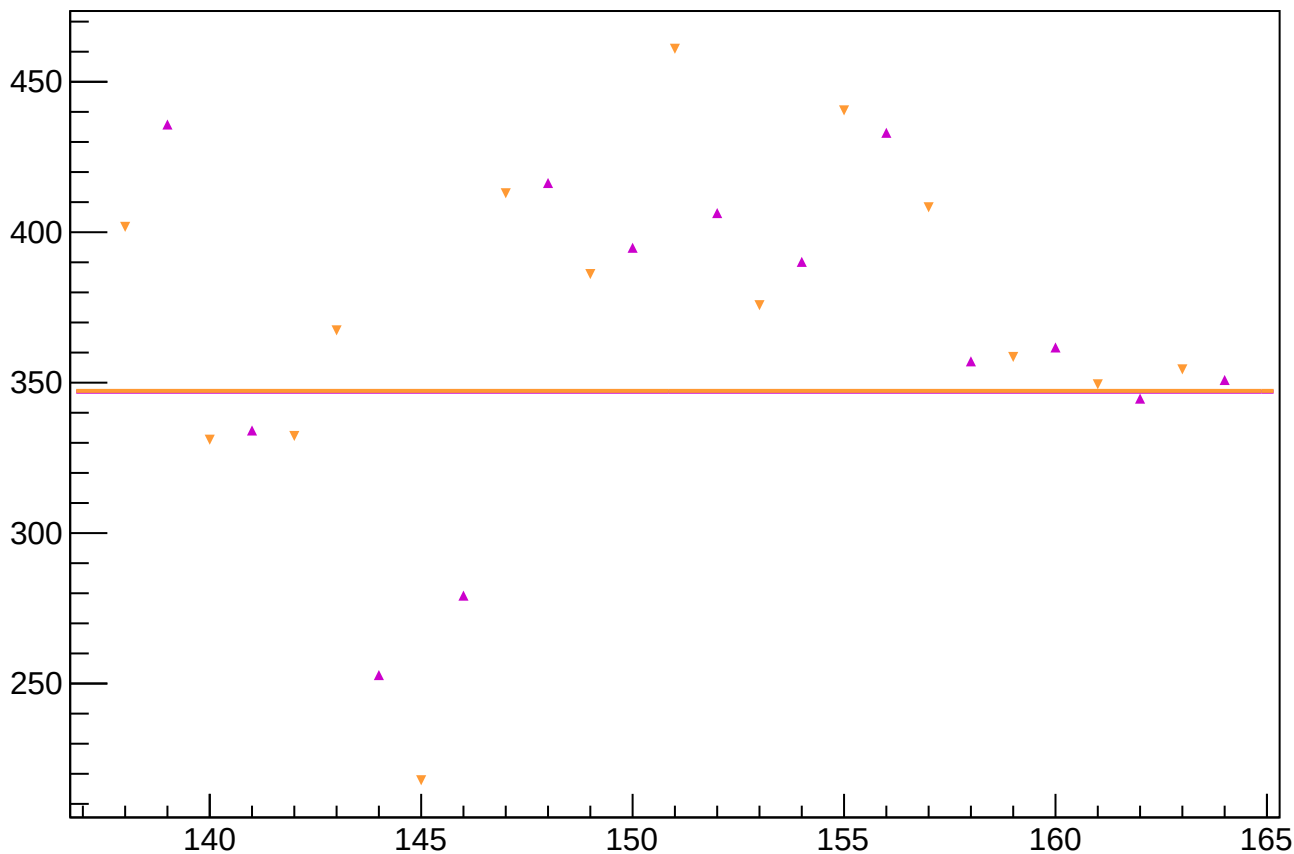
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 97.383+/-109.385  $\chi^2/\text{NDF}$ : 16.7/12

Out: 380.516+/-109.275  $\chi^2/\text{NDF}$ : 27.5/13

All: 239.092+/-77.308  $\chi^2/\text{NDF}$ : 47.6/26

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: 347.269+/-0.077  $\chi^2/\text{NDF}$ :837789.6/13

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

Left In: 346.995+/-0.077  $\chi^2/\text{NDF}$ :583861.3/12

Left: 347.132+/-0.055  $\chi^2/\text{NDF}$ : 1421657.2/26

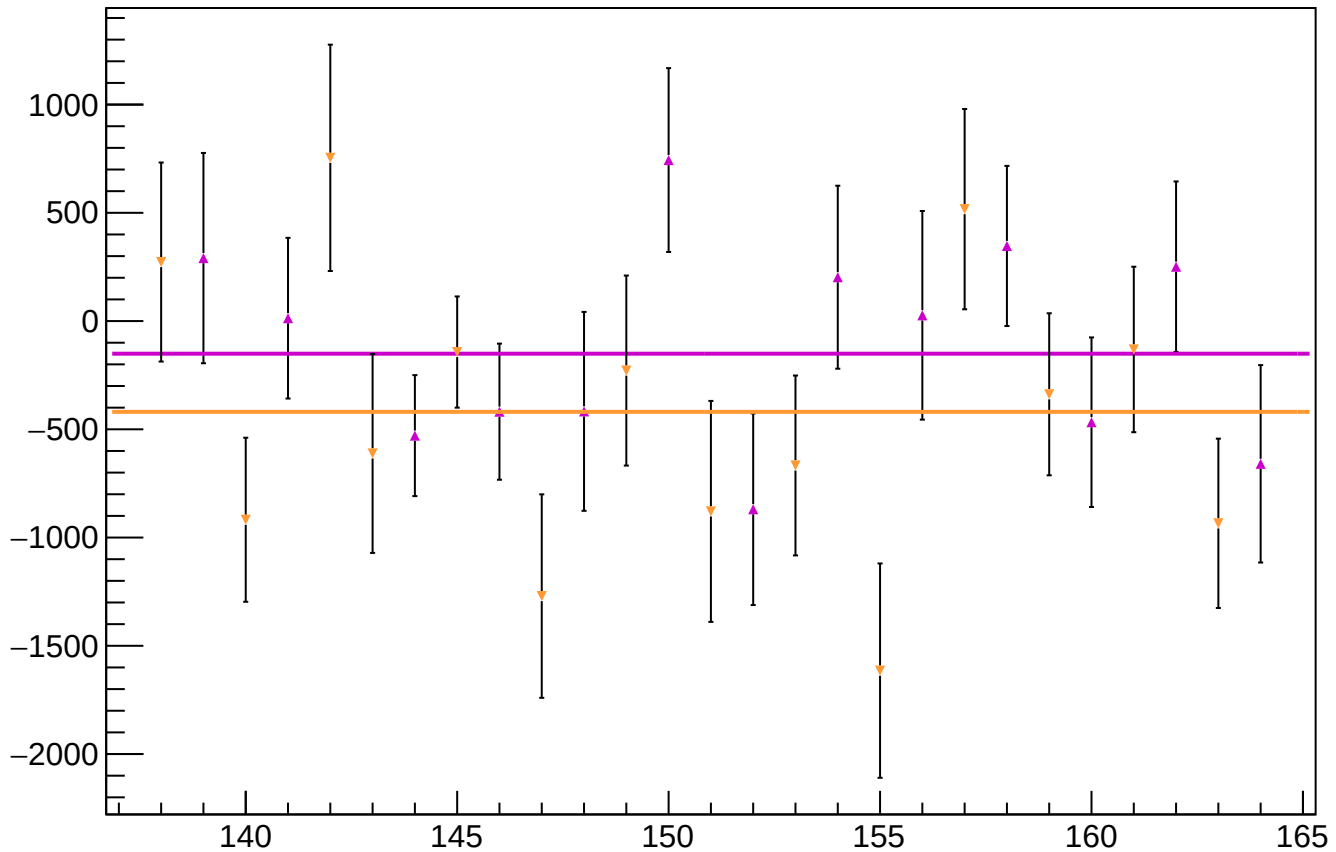
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 346.995+/-0.077  $\chi^2/\text{NDF}$ :583861.3/12

Out: 347.269+/-0.077  $\chi^2/\text{NDF}$ :837789.6/13

All: 347.132+/-0.055  $\chi^2/\text{NDF}$ : 1421657.2/26

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -419.412+/-109.191  $\chi^2/\text{NDF}$ :27.3/13

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

Left In: -150.737+/-108.585  $\chi^2/\text{NDF}$ :16.6/12

Left: -284.326+/-76.995  $\chi^2/\text{NDF}$ : 46.9/26

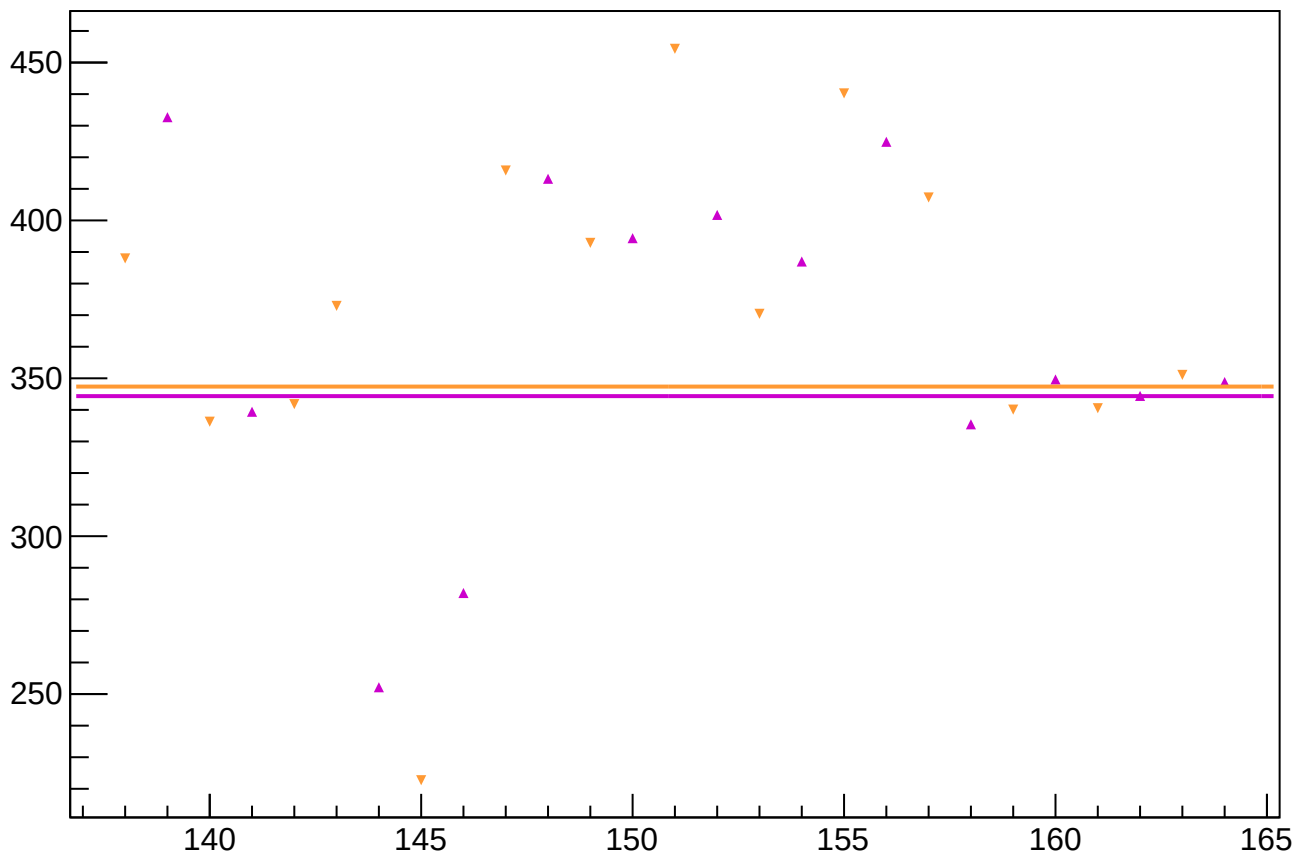
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -150.737+/-108.585  $\chi^2/\text{NDF}$ :16.6/12

Out: -419.412+/-109.191  $\chi^2/\text{NDF}$ :27.3/13

All: -284.326+/-76.995  $\chi^2/\text{NDF}$ : 46.9/26

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: 347.379+/-0.077  $\chi^2/\text{NDF}$ :758157.4/13

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

Left In: 344.357+/-0.077  $\chi^2/\text{NDF}$ :547198.6/12

Left: 345.860+/-0.054  $\chi^2/\text{NDF}$ : 1306126.2/26

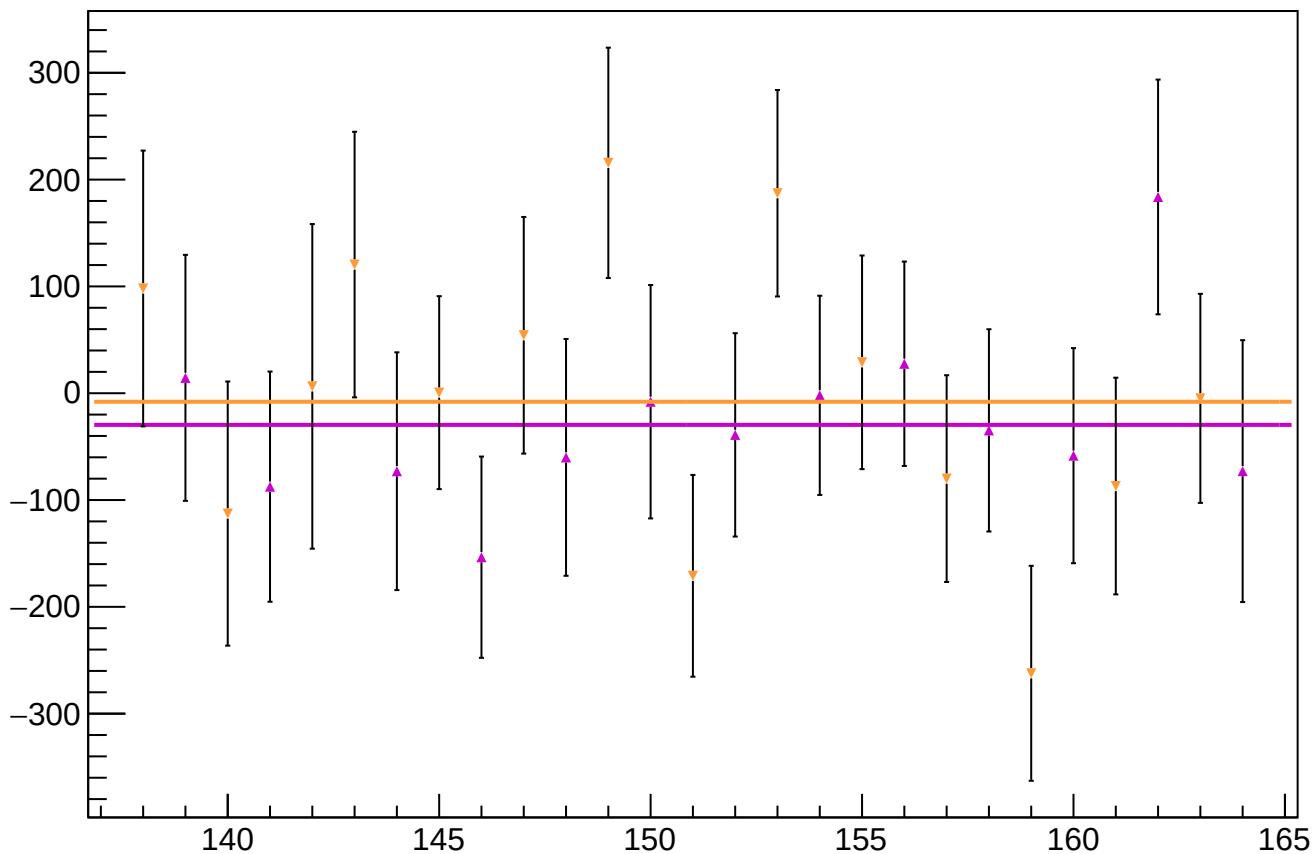
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 344.357+/-0.077  $\chi^2/\text{NDF}$ :547198.6/12

Out: 347.379+/-0.077  $\chi^2/\text{NDF}$ :758157.4/13

All: 345.860+/-0.054  $\chi^2/\text{NDF}$ : 1306126.2/26

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-7.985 \pm 28.288$   $\chi^2/\text{NDF}: 21.8/13$

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

Left In:  $-29.636 \pm 28.699$   $\chi^2/\text{NDF}: 6.9/12$

Left:  $-18.654 \pm 20.146$   $\chi^2/\text{NDF}: 29.0/26$

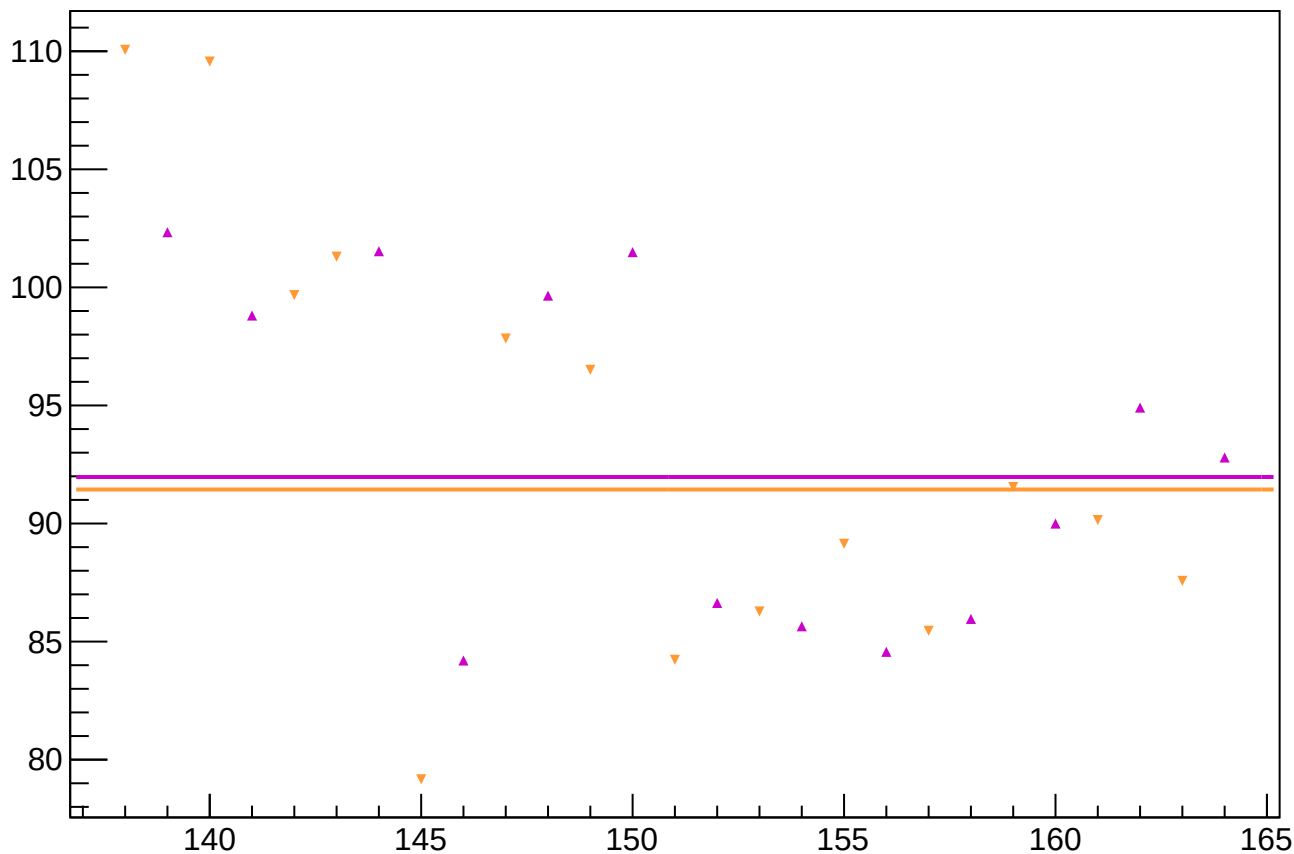
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-29.636 \pm 28.699$   $\chi^2/\text{NDF}: 6.9/12$

Out:  $-7.985 \pm 28.288$   $\chi^2/\text{NDF}: 21.8/13$

All:  $-18.654 \pm 20.146$   $\chi^2/\text{NDF}: 29.0/26$

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: 91.441+/-0.020  $\chi^2/\text{NDF}$ :180525.1/13

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

Left In: 91.970+/-0.020  $\chi^2/\text{NDF}$ :115208.9/12

Left: 91.702+/-0.014  $\chi^2/\text{NDF}$ : 296078.9/26

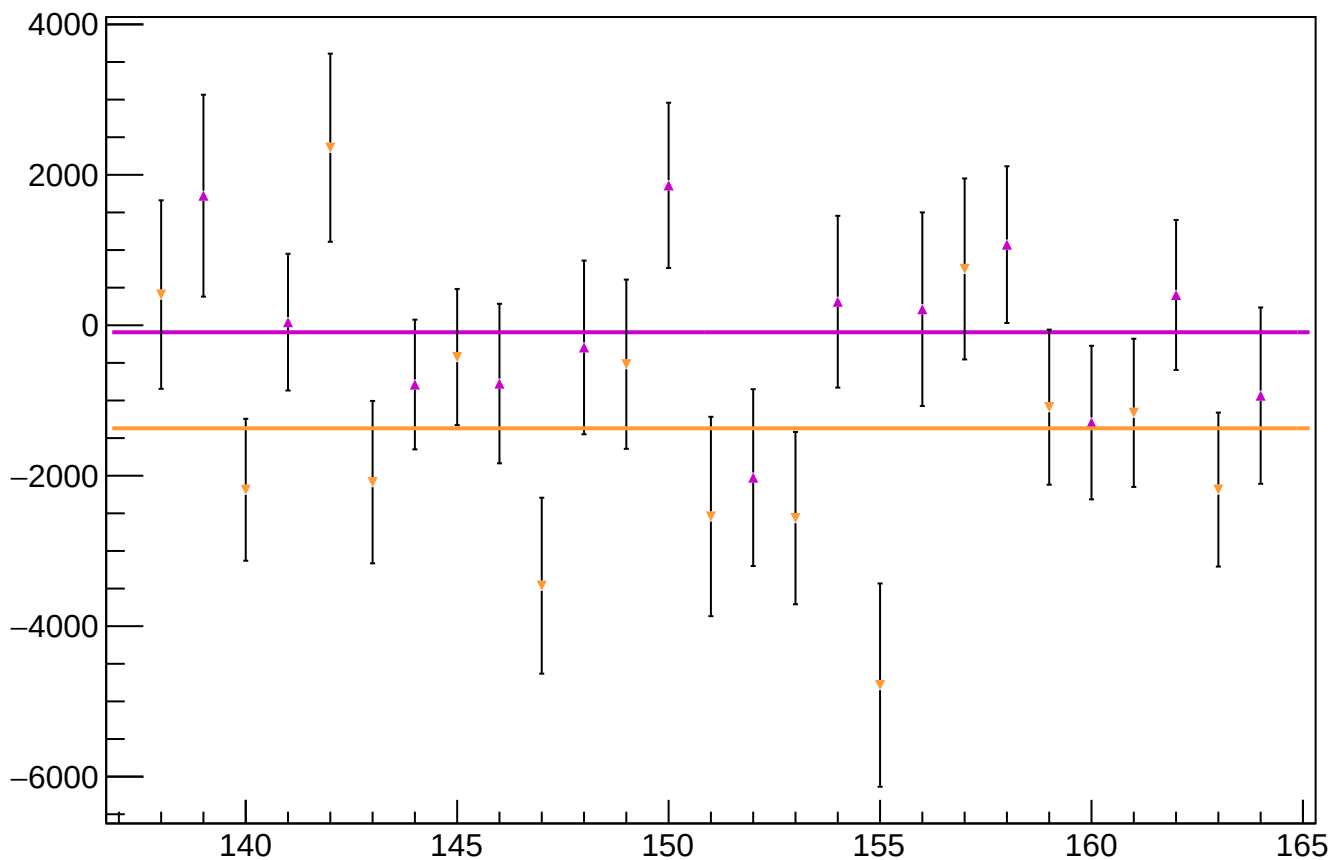
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 91.970+/-0.020  $\chi^2/\text{NDF}$ :115208.9/12

Out: 91.441+/-0.020  $\chi^2/\text{NDF}$ :180525.1/13

All: 91.702+/-0.014  $\chi^2/\text{NDF}$ : 296078.9/26

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: -1369.392+/-294.934  $\chi^2/\text{NDF}$ :29.1/13

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

Left In: -92.811+/-297.617  $\chi^2/\text{NDF}$ :12.4/12

Left: -736.880+/-209.492  $\chi^2/\text{NDF}$ : 50.7/26

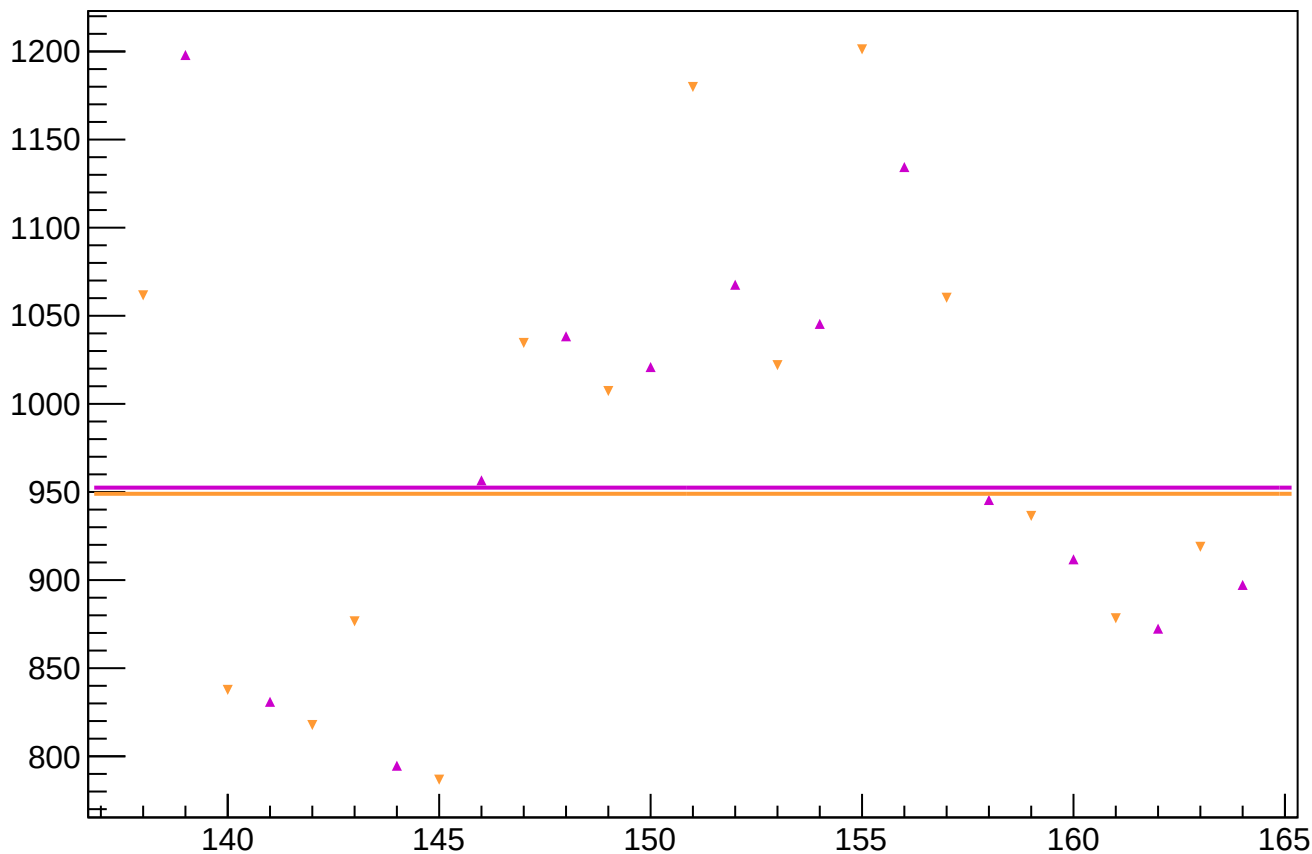
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -92.811+/-297.617  $\chi^2/\text{NDF}$ :12.4/12

Out: -1369.392+/-294.934  $\chi^2/\text{NDF}$ :29.1/13

All: -736.880+/-209.492  $\chi^2/\text{NDF}$ : 50.7/26

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: 948.973+/-0.209  $\chi^2/\text{NDF}$ :323254.1/13

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

Left In: 952.463+/-0.210  $\chi^2/\text{NDF}$ :281605.9/12

Left: 950.702+/-0.148  $\chi^2/\text{NDF}$ : 604998.8/26

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

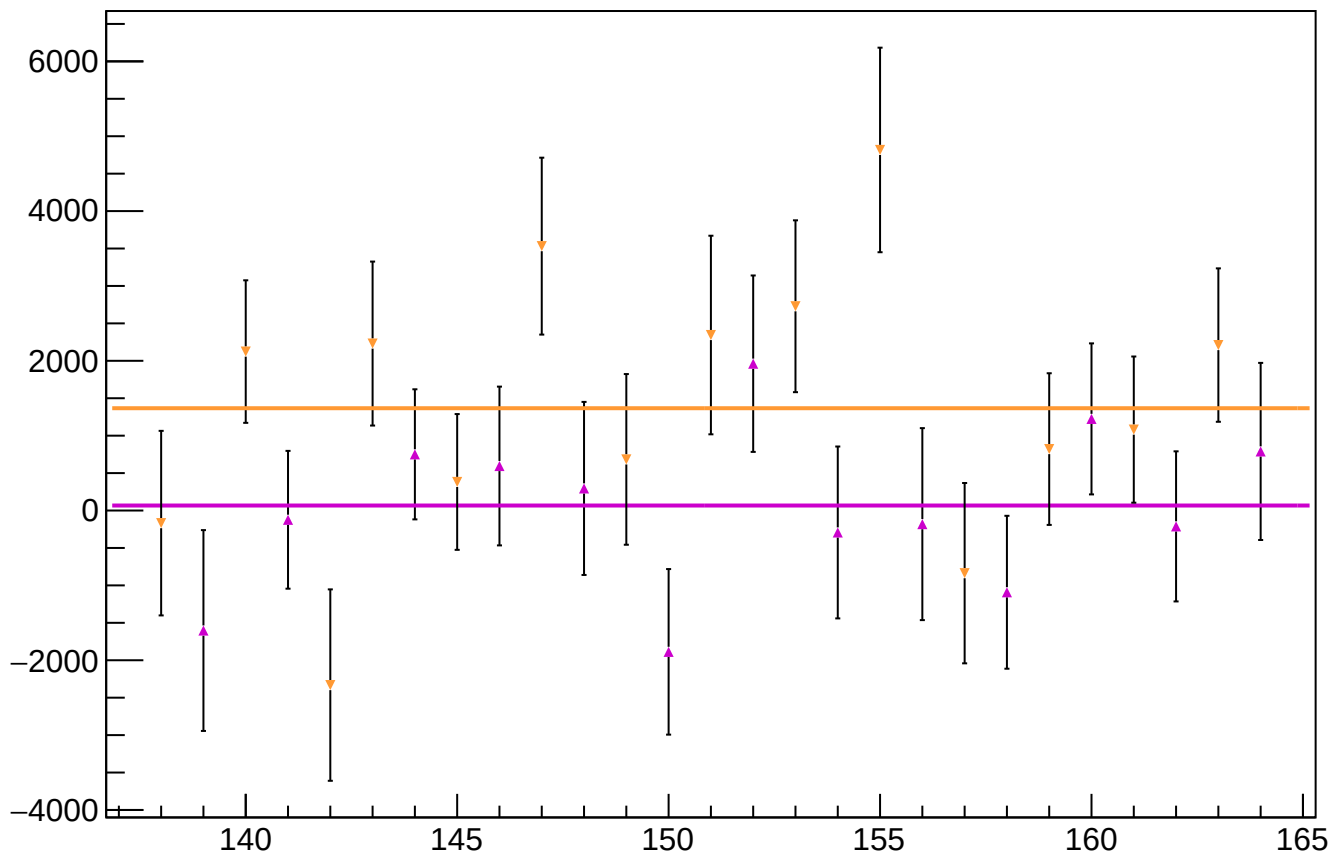
In: 952.463+/-0.210  $\chi^2/\text{NDF}$ :281605.9/12

Out: 948.973+/-0.209  $\chi^2/\text{NDF}$ :323254.1/13

All: 950.702+/-0.148  $\chi^2/\text{NDF}$ : 604998.8/26



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: 1366.667+/-295.701  $\chi^2/\text{NDF}$ :28.8/13

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

Left In: 66.896+/-298.088  $\chi^2/\text{NDF}$ :11.4/12

Left: 722.008+/-209.931  $\chi^2/\text{NDF}$ : 49.8/26

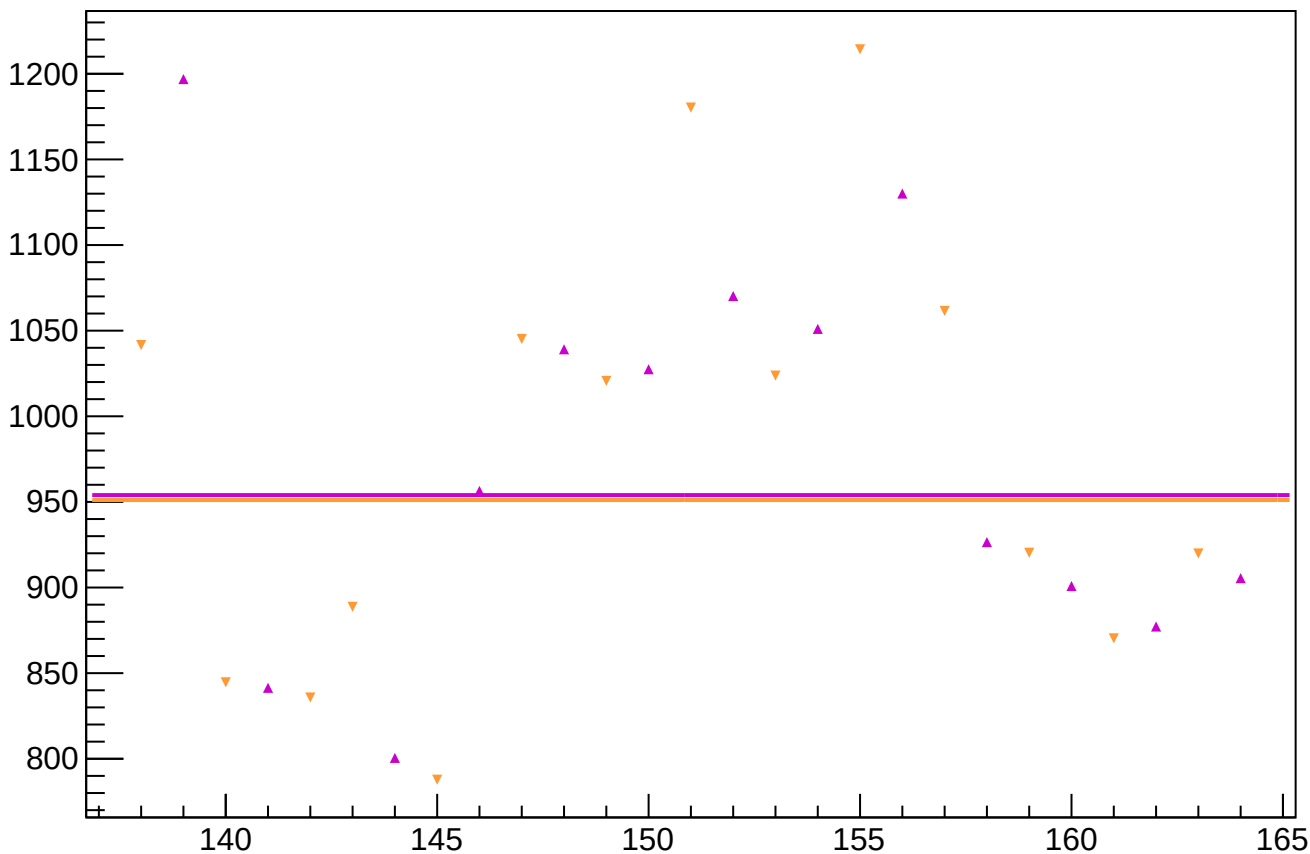
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 66.896+/-298.088  $\chi^2/\text{NDF}$ :11.4/12

Out: 1366.667+/-295.701  $\chi^2/\text{NDF}$ :28.8/13

All: 722.008+/-209.931  $\chi^2/\text{NDF}$ : 49.8/26

# 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: 951.093+/-0.209  $\chi^2/\text{NDF}$ :319652.8/13

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

Left In: 953.978+/-0.211  $\chi^2/\text{NDF}$ :271135.7/12

Left: 952.524+/-0.148  $\chi^2/\text{NDF}$ : 590883.0/26

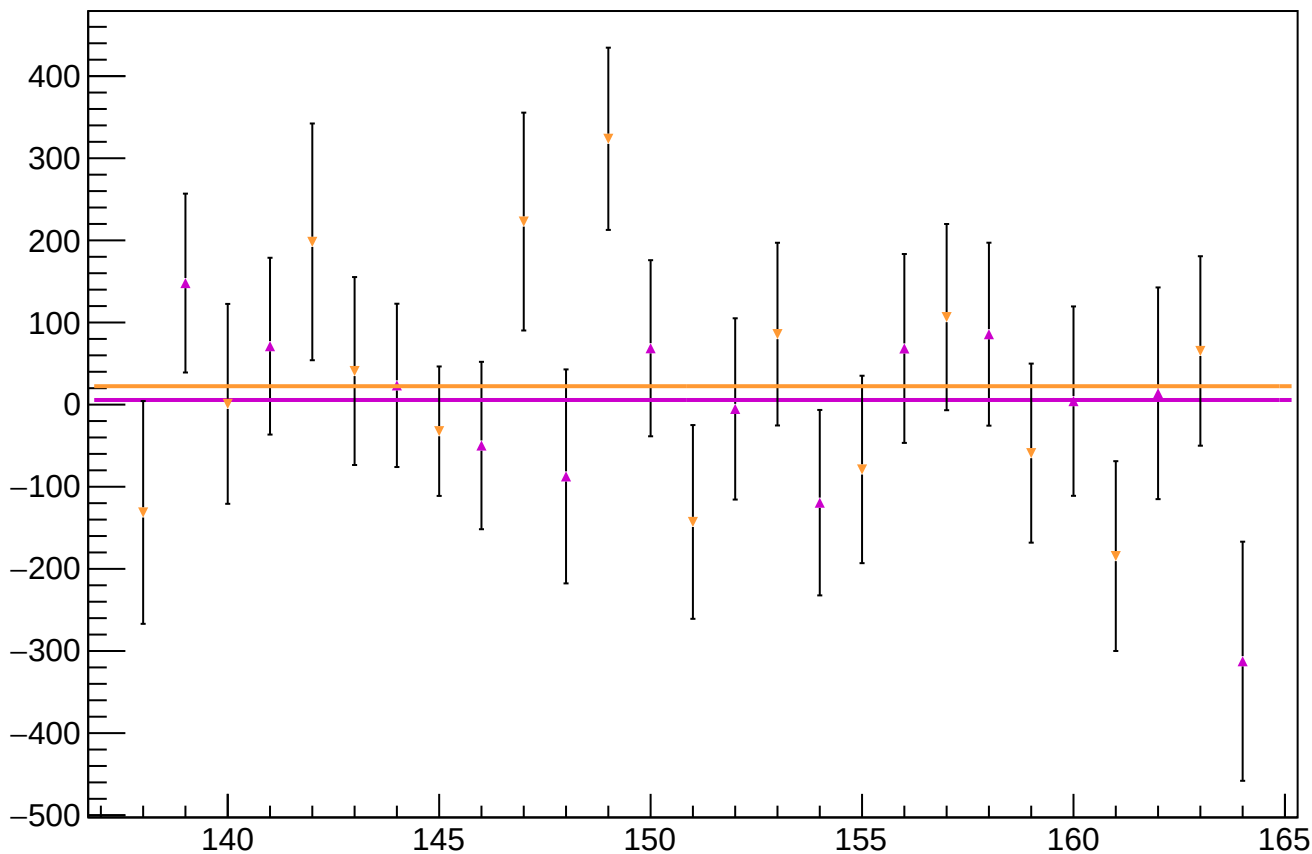
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 953.978+/-0.211  $\chi^2/\text{NDF}$ :271135.7/12

Out: 951.093+/-0.209  $\chi^2/\text{NDF}$ :319652.8/13

All: 952.524+/-0.148  $\chi^2/\text{NDF}$ : 590883.0/26

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 22.430+/-30.333  $\chi^2/\text{NDF}$ :20.5/13

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

Left In: 5.643+/-31.414  $\chi^2/\text{NDF}$ :10.1/12

Left: 14.331+/-21.821  $\chi^2/\text{NDF}$ : 30.7/26

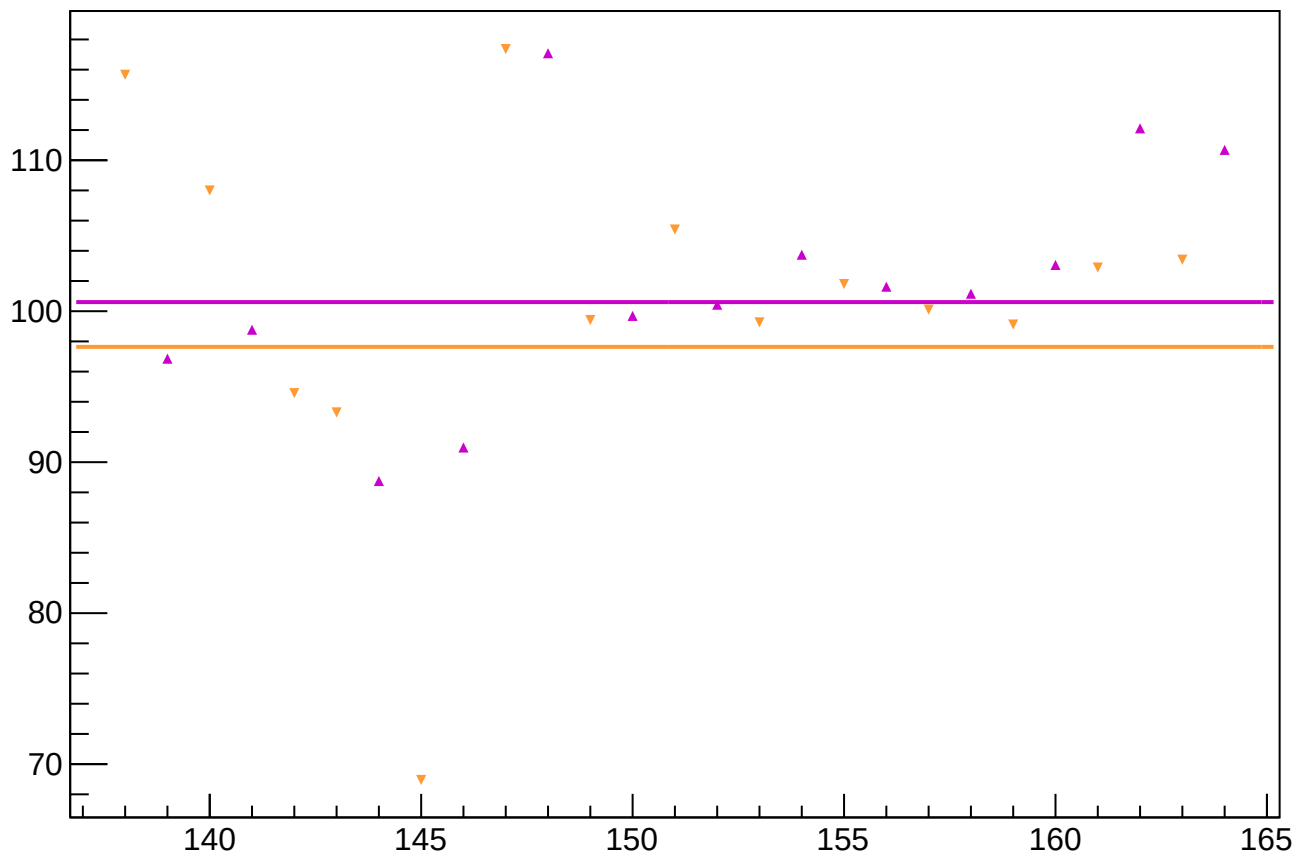
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5.643+/-31.414  $\chi^2/\text{NDF}$ :10.1/12

Out: 22.430+/-30.333  $\chi^2/\text{NDF}$ :20.5/13

All: 14.331+/-21.821  $\chi^2/\text{NDF}$ : 30.7/26

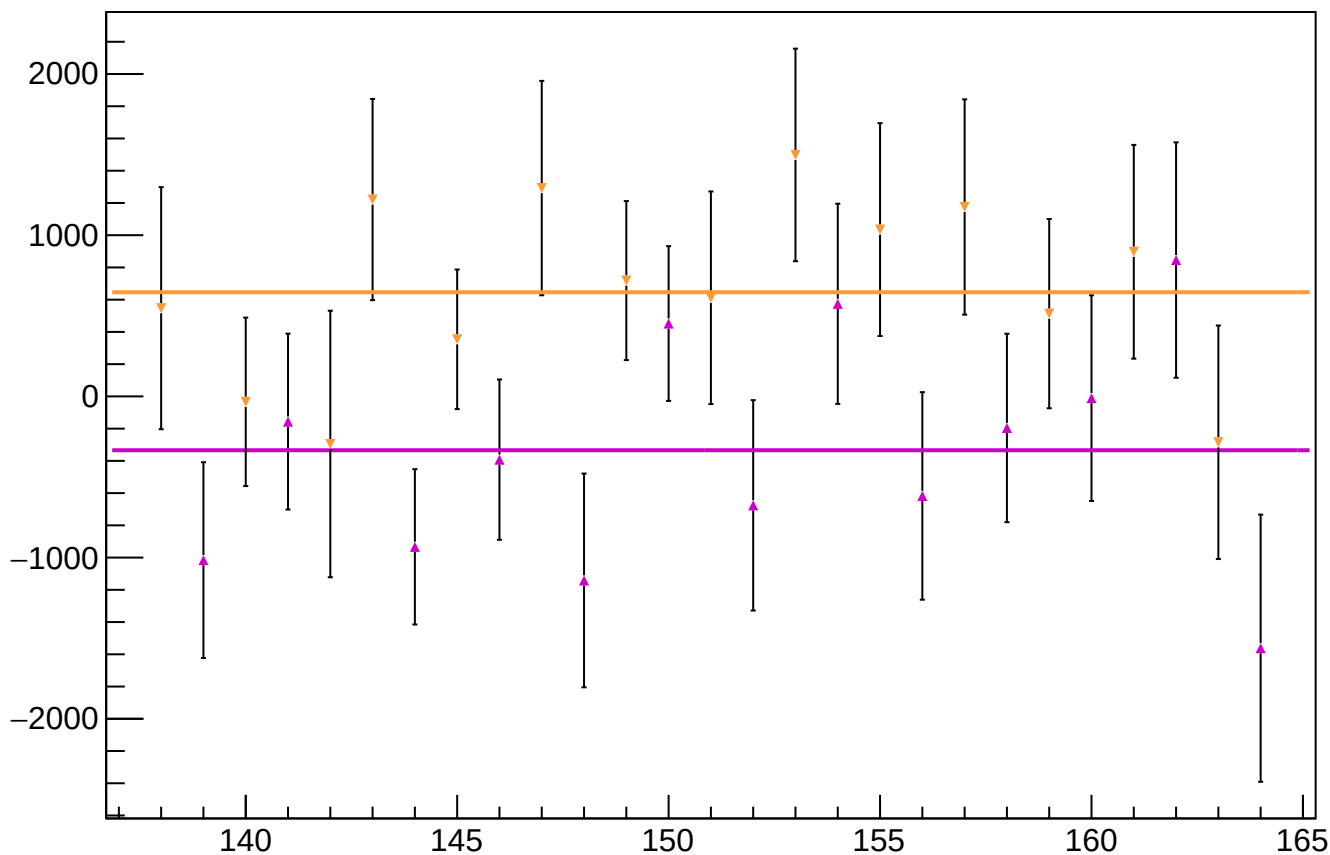
dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 97.638+/-0.021  $\chi^2/\text{NDF}$ :385509.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 100.604+/-0.022  $\chi^2/\text{NDF}$ :109602.2/12

Left: 99.069+/-0.015  $\chi^2/\text{NDF}$ : 504335.1/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 100.604+/-0.022  $\chi^2/\text{NDF}$ :109602.2/12  
 Out: 97.638+/-0.021  $\chi^2/\text{NDF}$ :385509.3/13  
 All: 99.069+/-0.015  $\chi^2/\text{NDF}$ : 504335.1/26

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: 646.286+/-163.552  $\chi^2/\text{NDF}$ : 9.8/13

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

Left In: -334.089+/-164.153  $\chi^2/\text{NDF}$ : 14.8/12

Left: 157.896+/-115.860  $\chi^2/\text{NDF}$ : 42.5/26

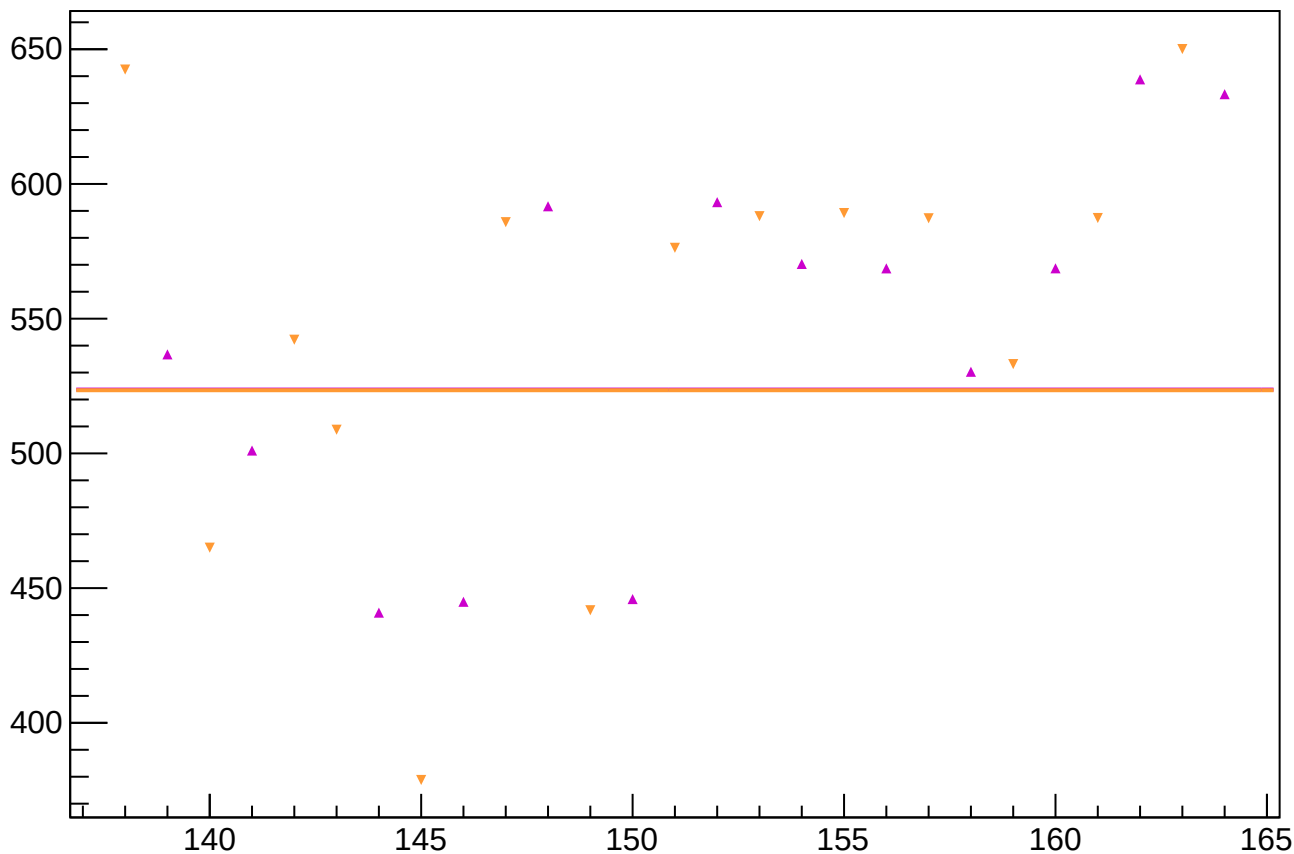
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -334.089+/-164.153  $\chi^2/\text{NDF}$ : 14.8/12

Out: 646.286+/-163.552  $\chi^2/\text{NDF}$ : 9.8/13

All: 157.896+/-115.860  $\chi^2/\text{NDF}$ : 42.5/26

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: 523.447+/-0.116  $\chi^2/\text{NDF}$ : 523253.3/13

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

Left In: 523.684+/-0.116  $\chi^2/\text{NDF}$ : 325845.3/12

Left: 523.565+/-0.082  $\chi^2/\text{NDF}$ : 849100.7/26

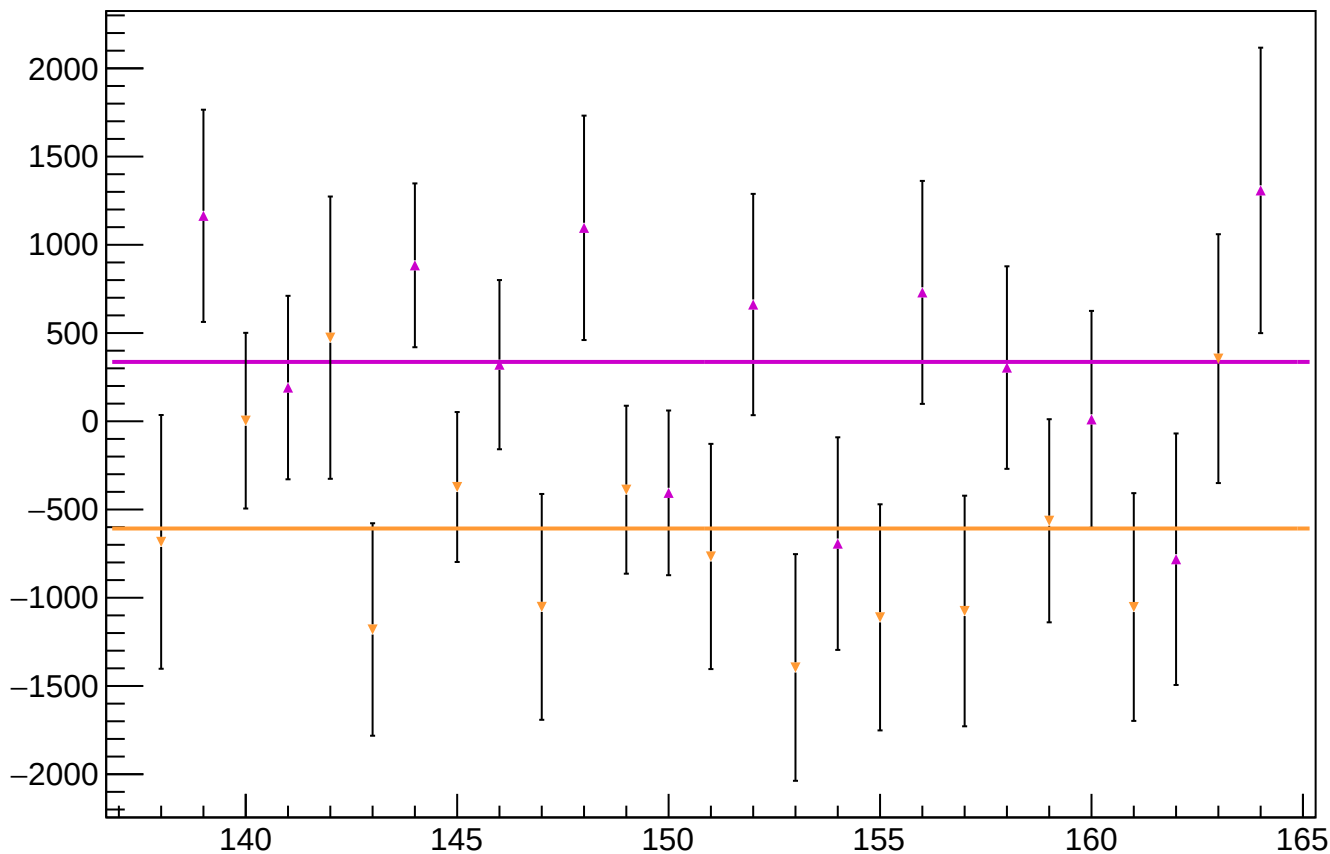
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 523.684+/-0.116  $\chi^2/\text{NDF}$ : 325845.3/12

Out: 523.447+/-0.116  $\chi^2/\text{NDF}$ : 523253.3/13

All: 523.565+/-0.082  $\chi^2/\text{NDF}$ : 849100.7/26

asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -607.642+/-158.548  $\chi^2/\text{NDF}$ :10.3/13

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

Left In: 336.339+/-159.091  $\chi^2/\text{NDF}$ :15.1/12

Left: -137.265+/-112.302  $\chi^2/\text{NDF}$ : 43.0/26

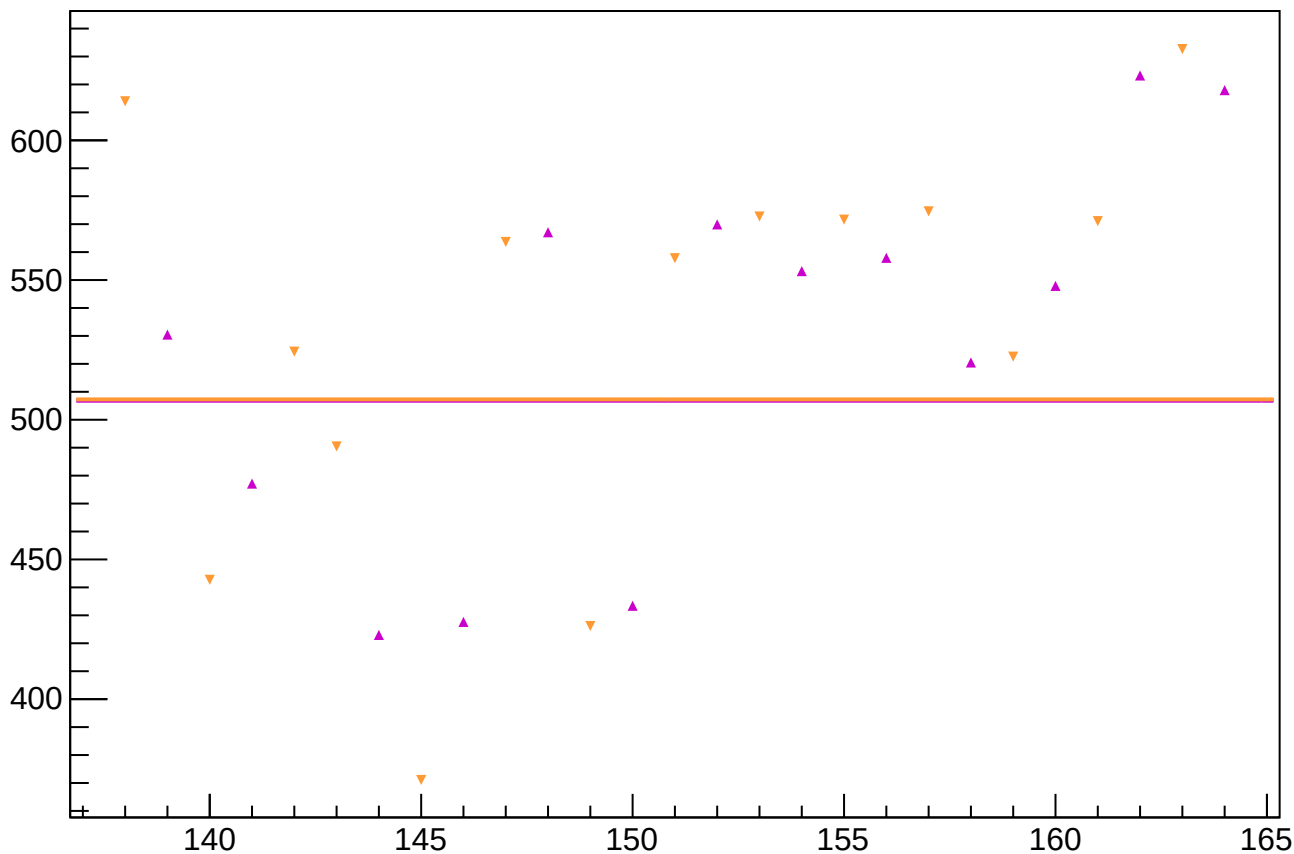
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 336.339+/-159.091  $\chi^2/\text{NDF}$ :15.1/12

Out: -607.642+/-158.548  $\chi^2/\text{NDF}$ :10.3/13

All: -137.265+/-112.302  $\chi^2/\text{NDF}$ : 43.0/26

# 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: 507.276+/-0.112  $\chi^2/\text{NDF}$ : 518215.9/13

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

Left In: 506.815+/-0.112  $\chi^2/\text{NDF}$ : 343237.4/12

Left: 507.046+/-0.079  $\chi^2/\text{NDF}$ : 861461.8/26

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

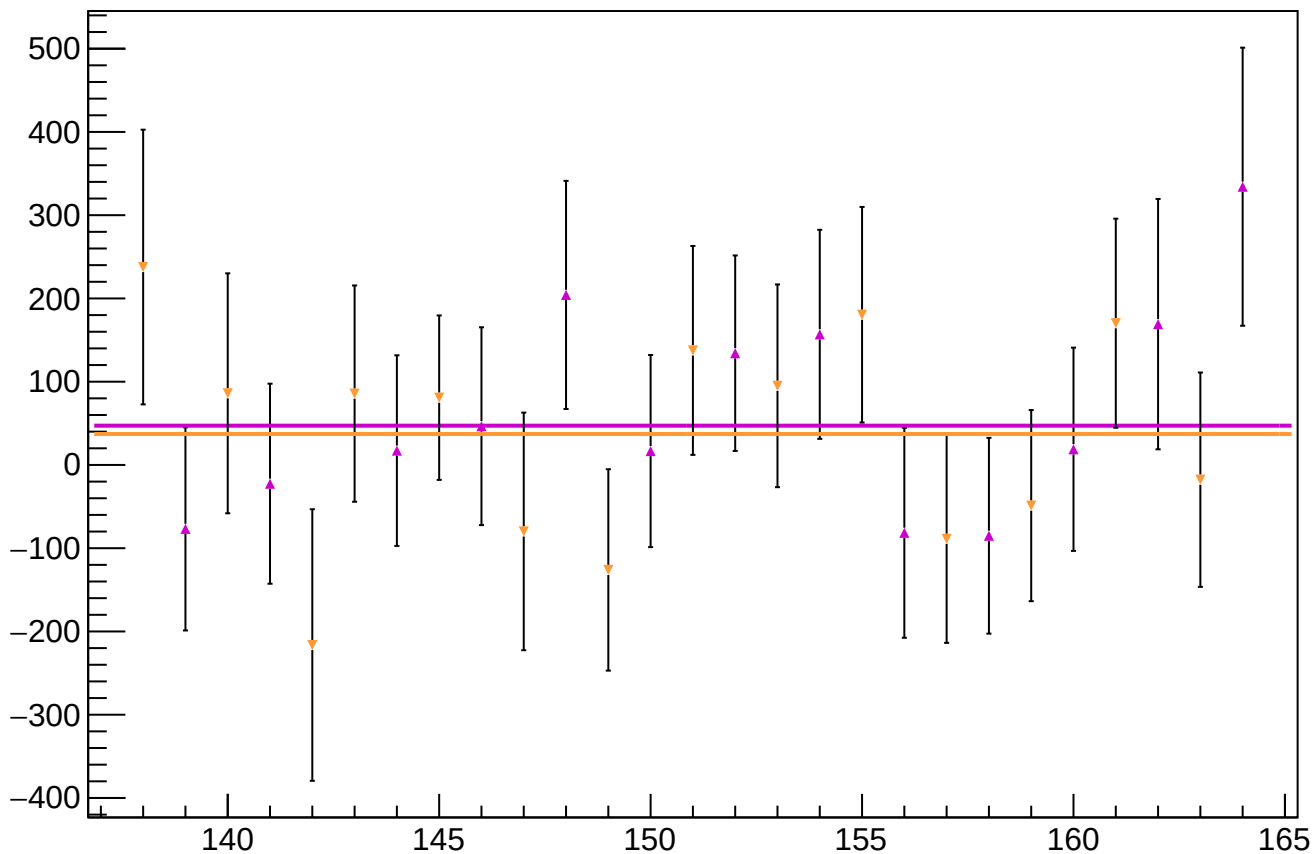
In: 506.815+/-0.112  $\chi^2/\text{NDF}$ : 343237.4/12

Out: 507.276+/-0.112  $\chi^2/\text{NDF}$ : 518215.9/13

All: 507.046+/-0.079  $\chi^2/\text{NDF}$ : 861461.8/26



dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 37.181+/-34.177  $\chi^2/\text{NDF}$ :11.8/13

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

Left In: 47.178+/-34.703  $\chi^2/\text{NDF}$ :10.1/12

Left: 42.103+/-24.351  $\chi^2/\text{NDF}$ : 22.0/26

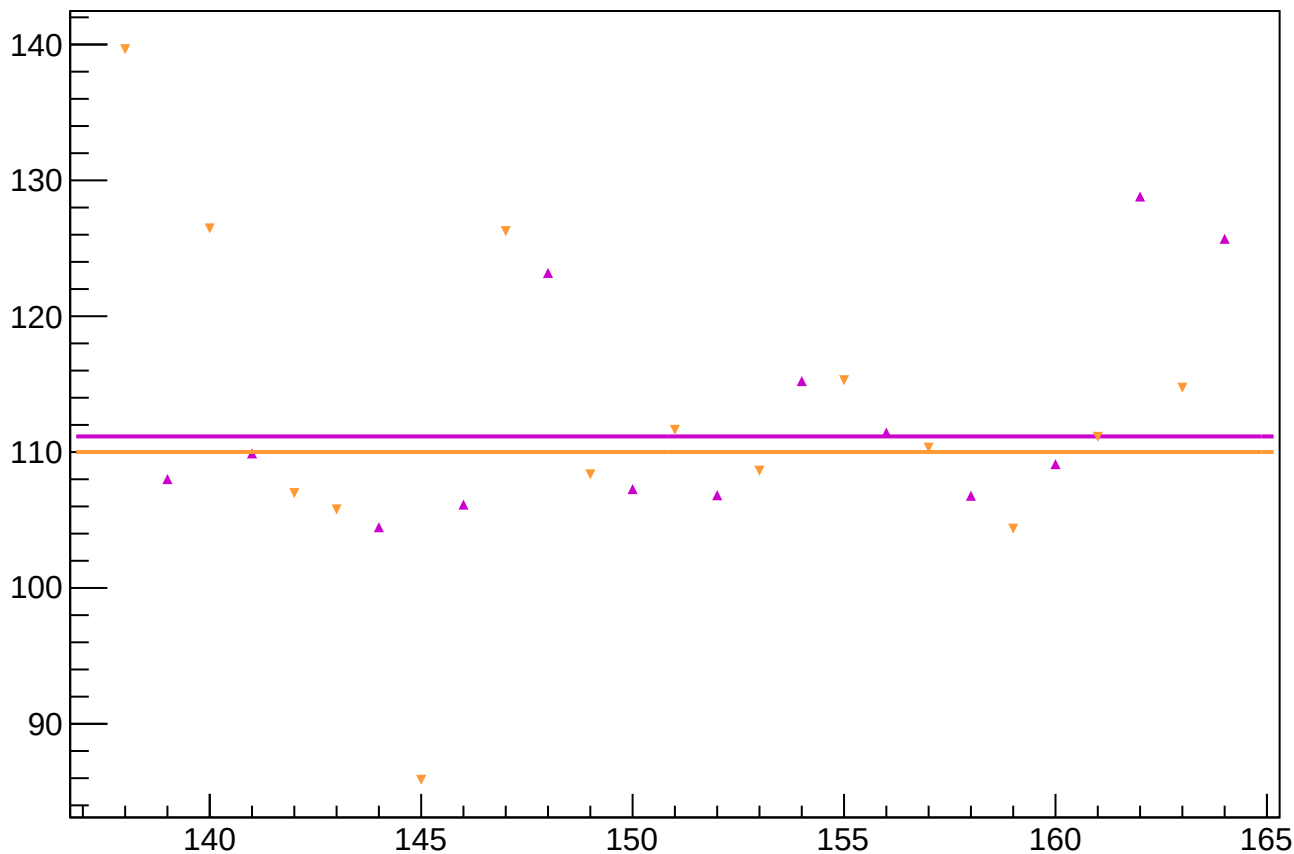
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 47.178+/-34.703  $\chi^2/\text{NDF}$ :10.1/12

Out: 37.181+/-34.177  $\chi^2/\text{NDF}$ :11.8/13

All: 42.103+/-24.351  $\chi^2/\text{NDF}$ : 22.0/26

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: 110.009+/-0.024  $\chi^2/\text{NDF}$ :250824.7/13

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

Left In: 111.154+/-0.025  $\chi^2/\text{NDF}$ :80513.7/12

Left: 110.573+/-0.017  $\chi^2/\text{NDF}$ : 332444.4/26

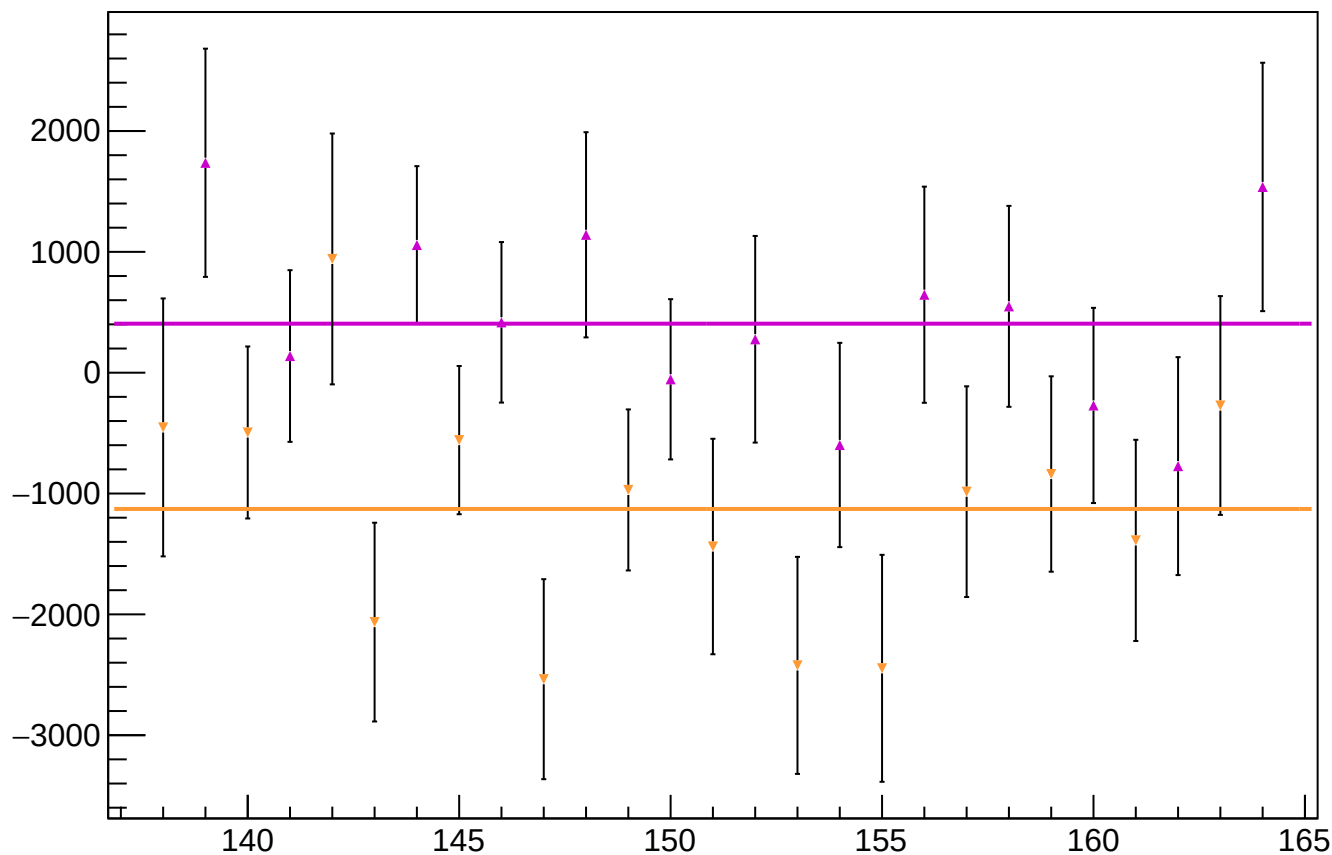
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 111.154+/-0.025  $\chi^2/\text{NDF}$ :80513.7/12

Out: 110.009+/-0.024  $\chi^2/\text{NDF}$ :250824.7/13

All: 110.573+/-0.017  $\chi^2/\text{NDF}$ : 332444.4/26

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: -1127.763+/-219.429  $\chi^2/\text{NDF}$ :15.6/13

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

Left In: 405.641+/-220.591  $\chi^2/\text{NDF}$ :9.5/12

Left: -365.108+/-155.569  $\chi^2/\text{NDF}$ : 49.4/26

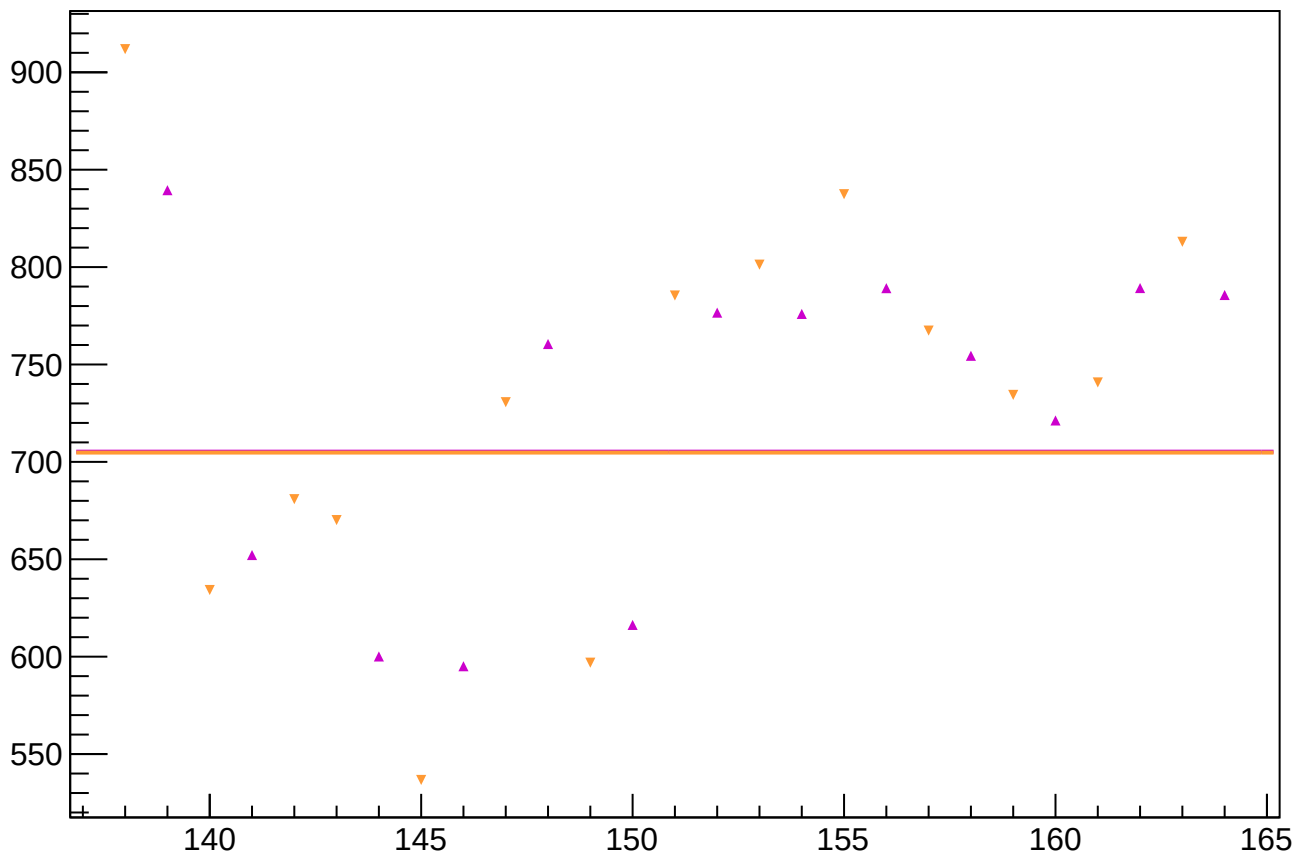
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 405.641+/-220.591  $\chi^2/\text{NDF}$ :9.5/12

Out: -1127.763+/-219.429  $\chi^2/\text{NDF}$ :15.6/13

All: -365.108+/-155.569  $\chi^2/\text{NDF}$ : 49.4/26

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: 704.782+/-0.155  $\chi^2/\text{NDF}$ :428777.5/13

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

Left In: 705.240+/-0.156  $\chi^2/\text{NDF}$ :285878.3/12

Left: 705.010+/-0.110  $\chi^2/\text{NDF}$ : 714660.1/26

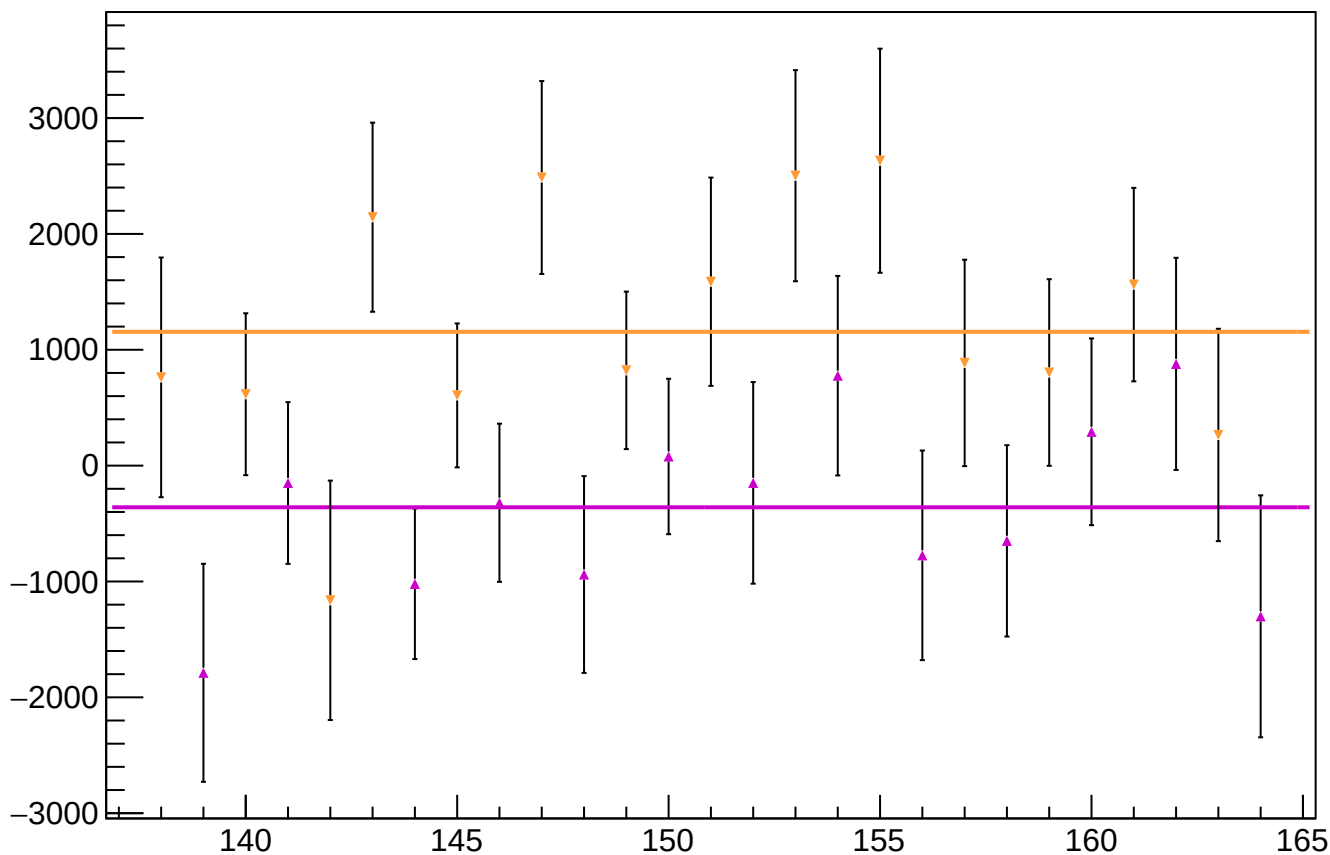
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 705.240+/-0.156  $\chi^2/\text{NDF}$ :285878.3/12

Out: 704.782+/-0.155  $\chi^2/\text{NDF}$ :428777.5/13

All: 705.010+/-0.110  $\chi^2/\text{NDF}$ : 714660.1/26

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1155.180+/-220.543  $\chi^2/\text{NDF}$ : 17.0/13

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

Left In: -359.620+/-221.870  $\chi^2/\text{NDF}$ : 9.8/12

Left: 402.326+/-156.414  $\chi^2/\text{NDF}$ : 50.2/26

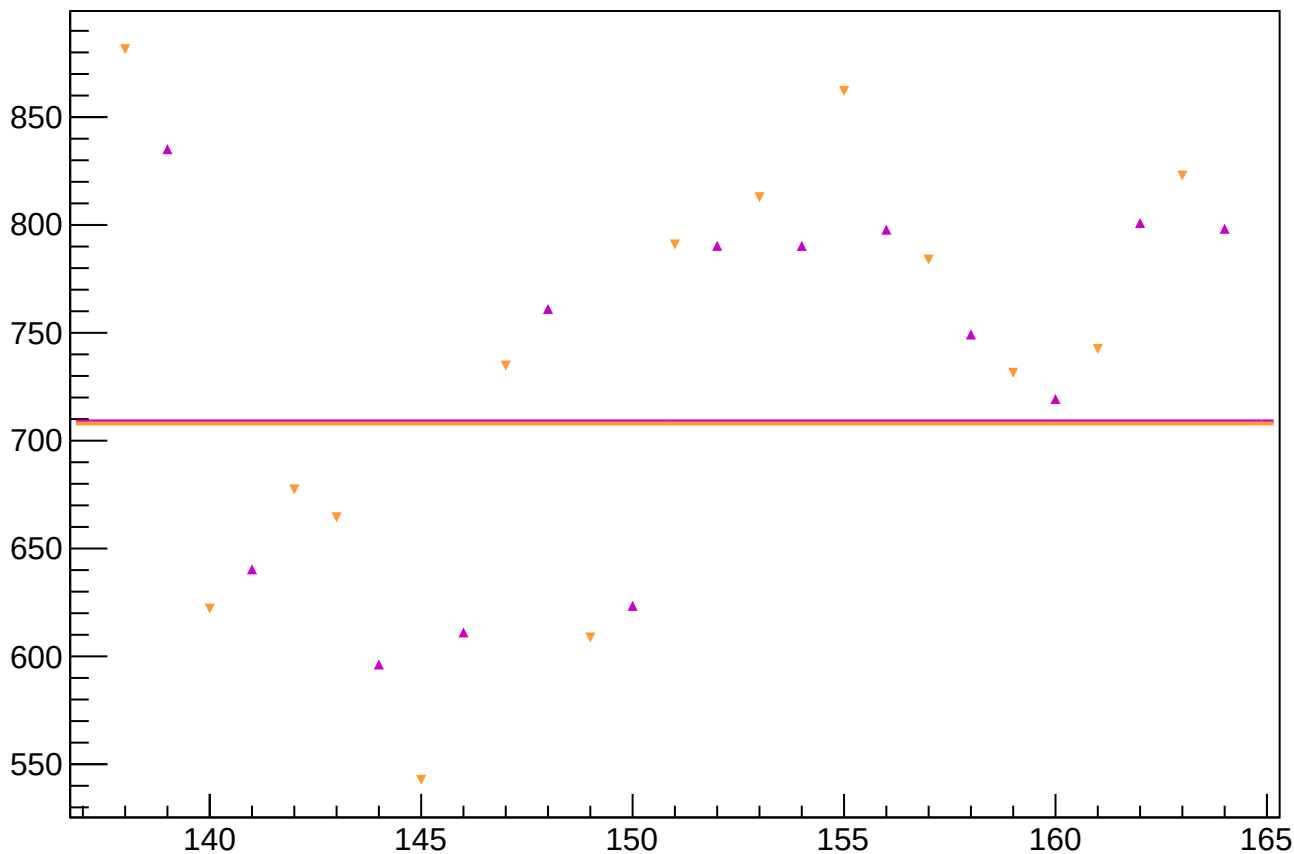
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -359.620+/-221.870  $\chi^2/\text{NDF}$ : 9.8/12

Out: 1155.180+/-220.543  $\chi^2/\text{NDF}$ : 17.0/13

All: 402.326+/-156.414  $\chi^2/\text{NDF}$ : 50.2/26

# asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 707.964+/-0.156  $\chi^2/\text{NDF}$ :425588.7/13

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

Left In: 708.921+/-0.157  $\chi^2/\text{NDF}$ :291198.3/12

Left: 708.440+/-0.111  $\chi^2/\text{NDF}$ : 716805.7/26

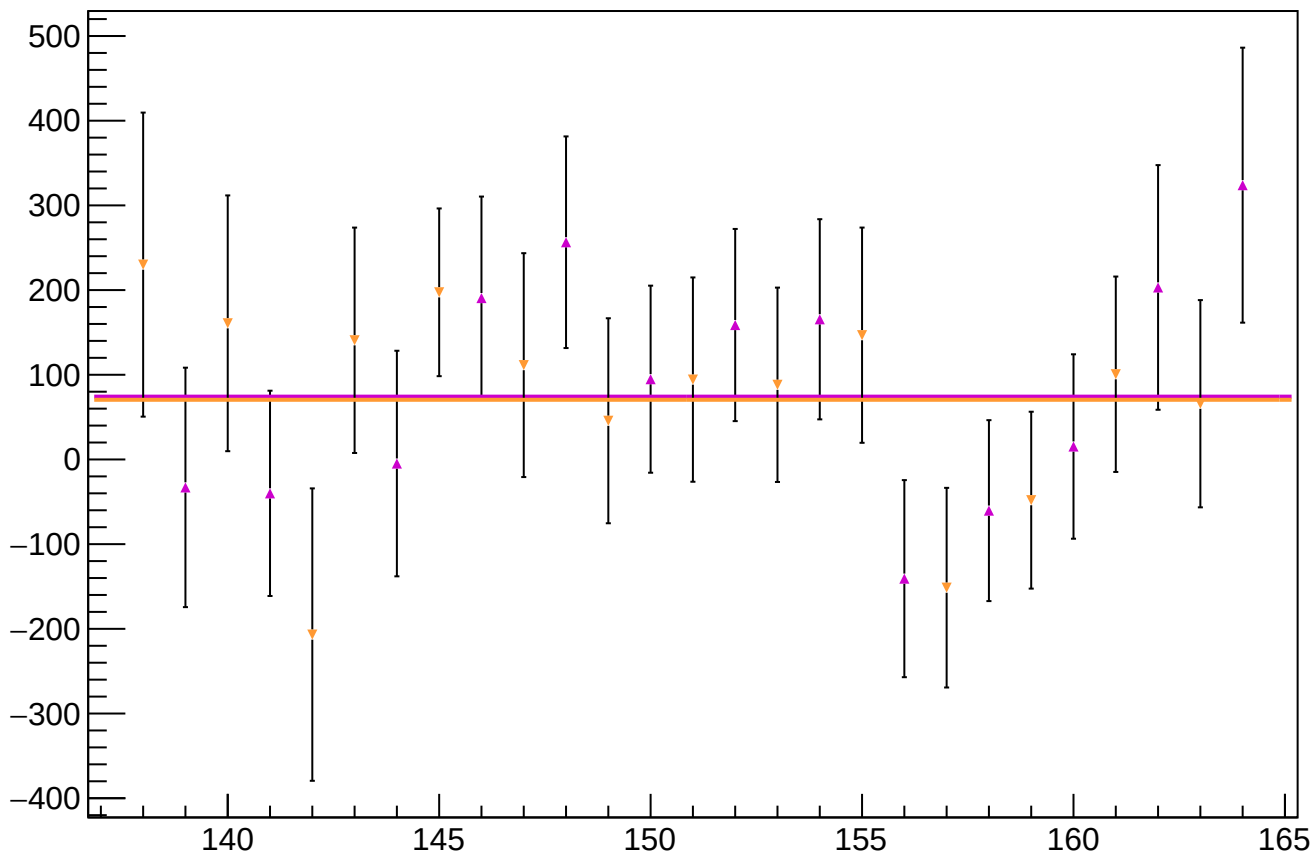
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 708.921+/-0.157  $\chi^2/\text{NDF}$ :291198.3/12

Out: 707.964+/-0.156  $\chi^2/\text{NDF}$ :425588.7/13

All: 708.440+/-0.111  $\chi^2/\text{NDF}$ : 716805.7/26

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 70.458 $\pm$ 33.248  $\chi^2$ /NDF:11.1/13

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

Left In: 74.180 $\pm$ 33.881  $\chi^2$ /NDF:14.5/12

Left: 72.284 $\pm$ 23.731  $\chi^2$ /NDF: 25.6/26

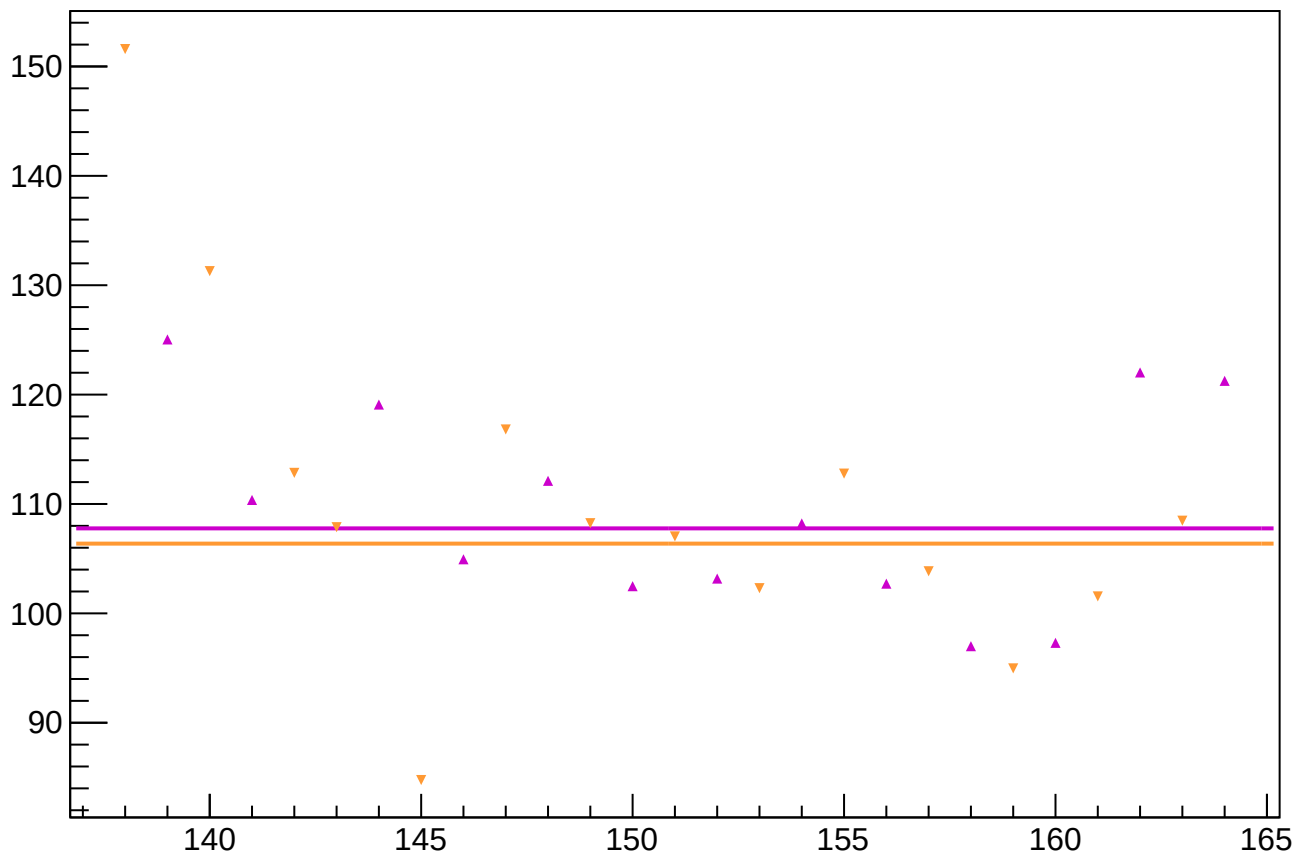
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 74.180 $\pm$ 33.881  $\chi^2$ /NDF:14.5/12

Out: 70.458 $\pm$ 33.248  $\chi^2$ /NDF:11.1/13

All: 72.284 $\pm$ 23.731  $\chi^2$ /NDF: 25.6/26

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: 106.376+/-0.024  $\chi^2/\text{NDF}$ : 329145.6/13

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

Left In: 107.770+/-0.024  $\chi^2/\text{NDF}$ : 132508.3/12

Left: 107.060+/-0.017  $\chi^2/\text{NDF}$ : 463378.1/26

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

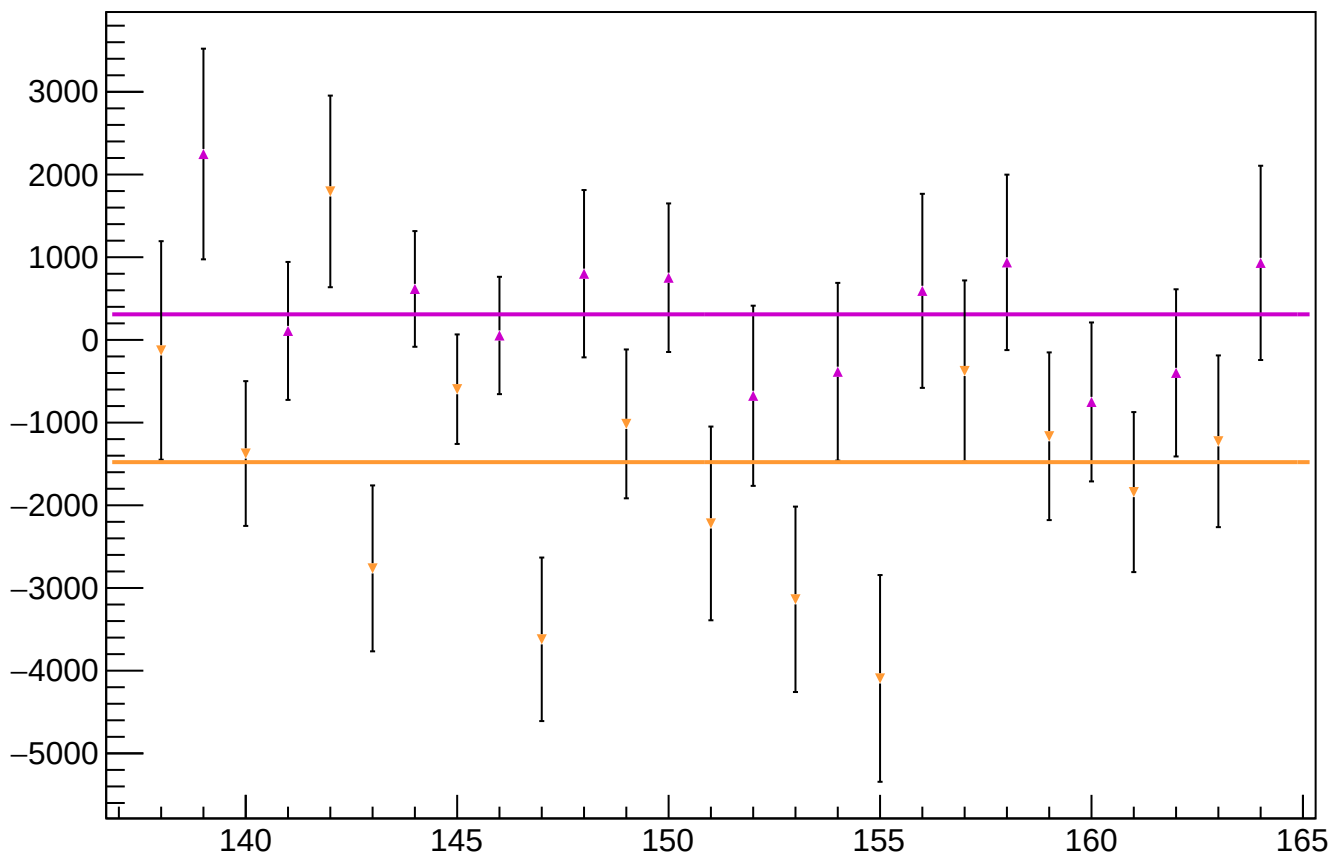
In: 107.770+/-0.024  $\chi^2/\text{NDF}$ : 132508.3/12

Out: 106.376+/-0.024  $\chi^2/\text{NDF}$ : 329145.6/13

All: 107.060+/-0.017  $\chi^2/\text{NDF}$ : 463378.1/26



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: -1478.137+/-266.132  $\chi^2/\text{NDF}$ :25.7/13

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

Left In: 309.320+/-263.450  $\chi^2/\text{NDF}$ :6.8/12

Left: -575.356+/-187.228  $\chi^2/\text{NDF}$ : 55.3/26

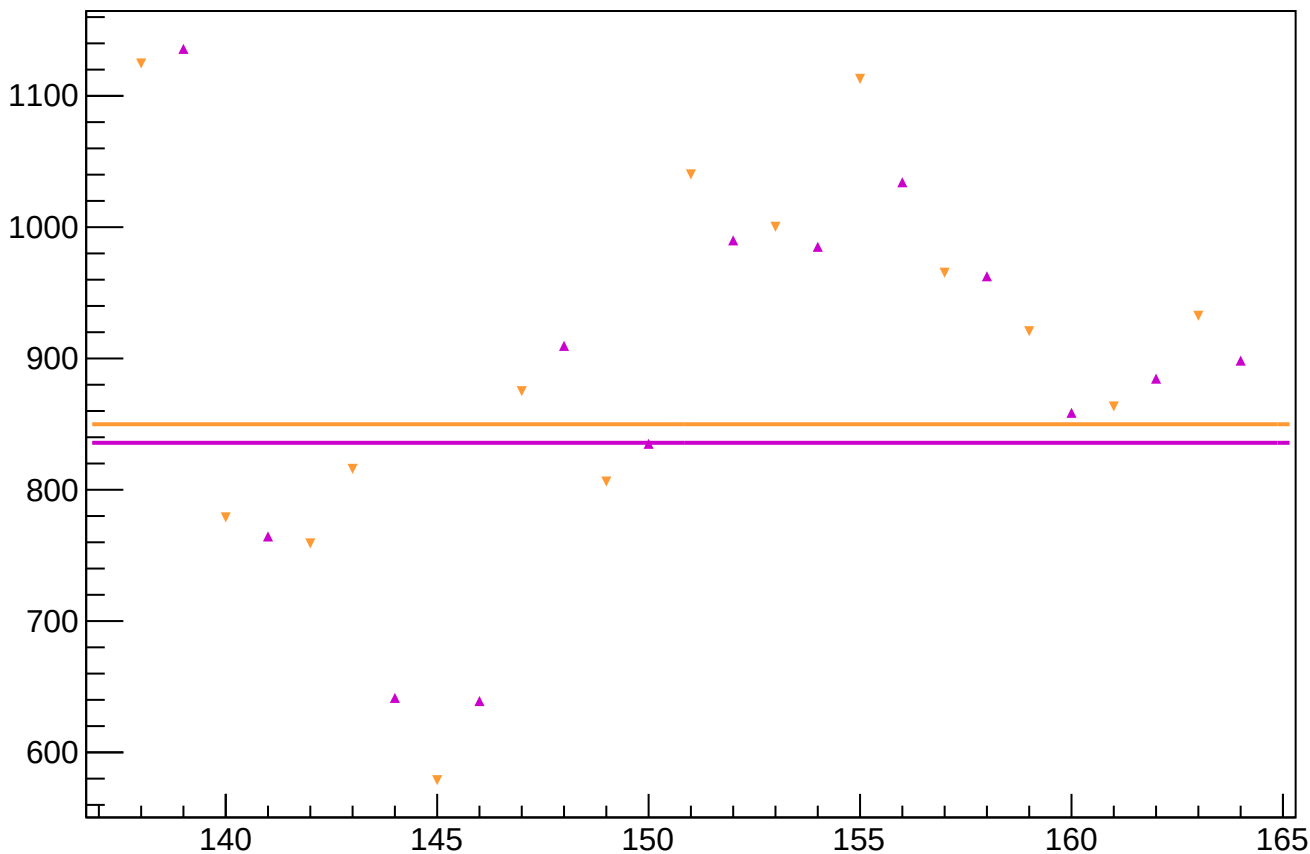
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 309.320+/-263.450  $\chi^2/\text{NDF}$ :6.8/12

Out: -1478.137+/-266.132  $\chi^2/\text{NDF}$ :25.7/13

All: -575.356+/-187.228  $\chi^2/\text{NDF}$ : 55.3/26

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: 849.910+/-0.188  $\chi^2/\text{NDF}$ : 677566.2/13

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

Left In: 835.772+/-0.186  $\chi^2/\text{NDF}$ : 620103.3/12

Left: 842.769+/-0.132  $\chi^2/\text{NDF}$ : 1300520.4/26

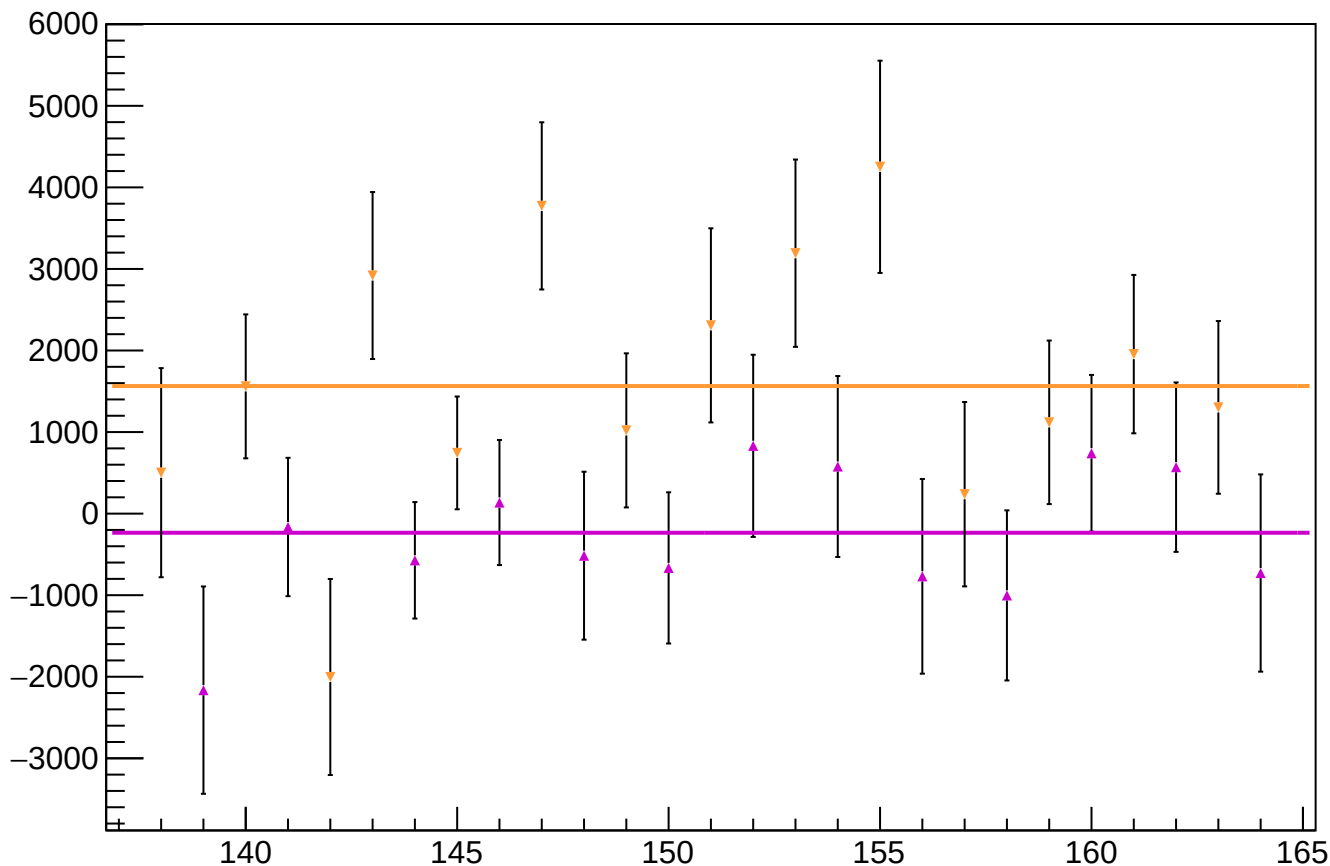
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 835.772+/-0.186  $\chi^2/\text{NDF}$ : 620103.3/12

Out: 849.910+/-0.188  $\chi^2/\text{NDF}$ : 677566.2/13

All: 842.769+/-0.132  $\chi^2/\text{NDF}$ : 1300520.4/26

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1564.192+/-272.279  $\chi^2/\text{NDF}$ :26.1/13

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

Left In: -234.497+/-270.097  $\chi^2/\text{NDF}$ :7.0/12

Left: 657.609+/-191.754  $\chi^2/\text{NDF}$ : 55.1/26

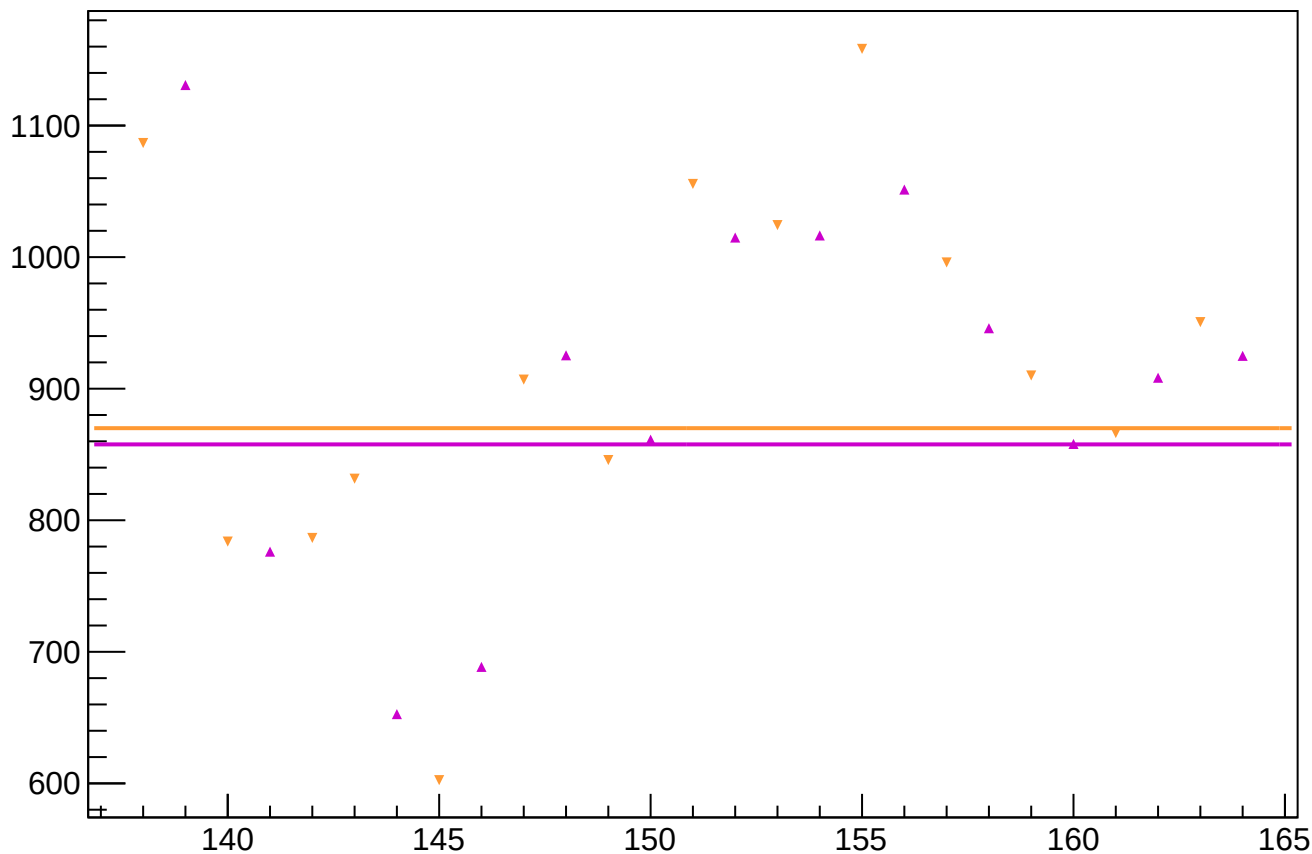
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -234.497+/-270.097  $\chi^2/\text{NDF}$ :7.0/12

Out: 1564.192+/-272.279  $\chi^2/\text{NDF}$ :26.1/13

All: 657.609+/-191.754  $\chi^2/\text{NDF}$ : 55.1/26

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Left: 863.776 +/- 0.136  $\chi^2/\text{NDF}$ : 1156843.0/26

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

In: 857.661 +/- 0.191  $\chi^2/\text{NDF}$ : 540190.1/12

Out: 869.990 +/- 0.193  $\chi^2/\text{NDF}$ : 614586.1/13

All: 863.776 +/- 0.136  $\chi^2/\text{NDF}$ : 1156843.0/26

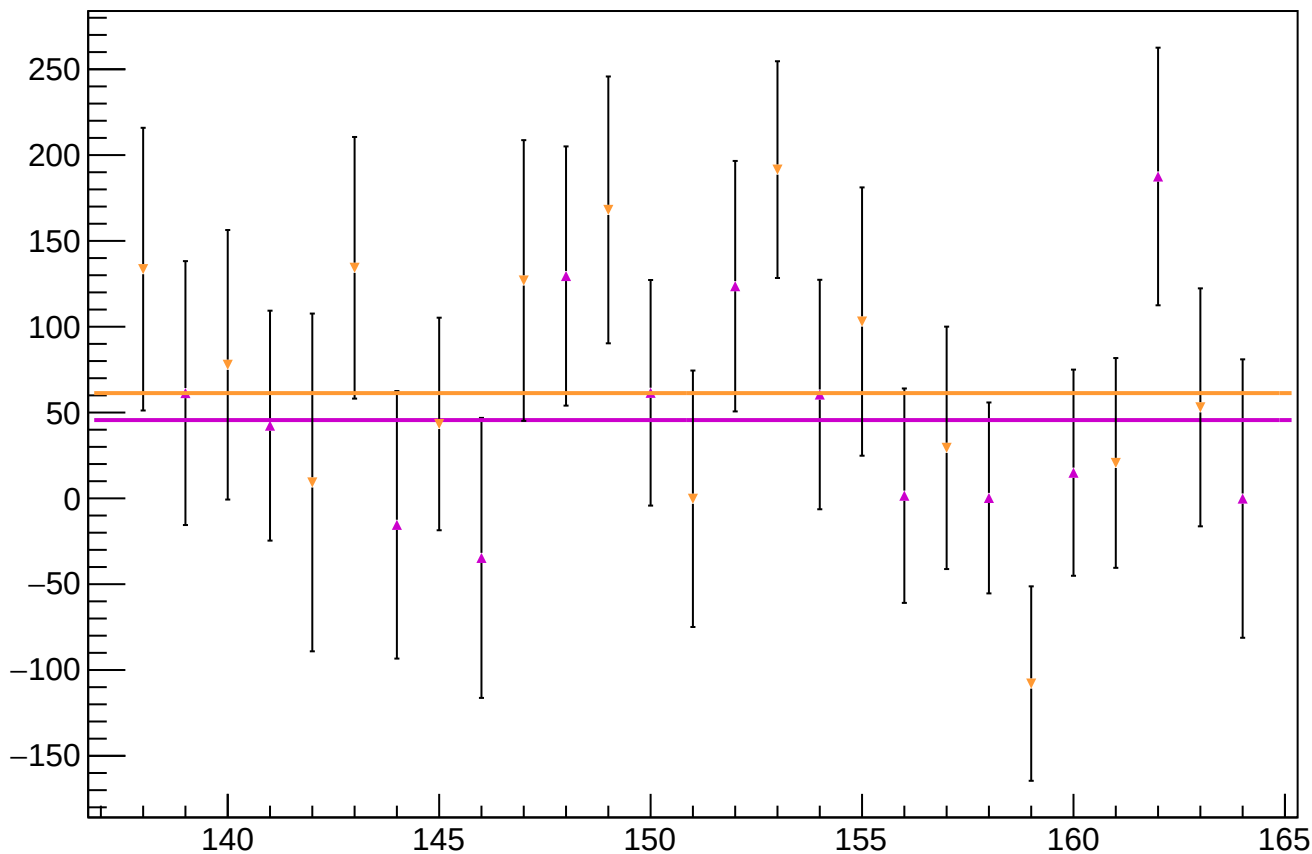
Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 869.990 +/- 0.193  $\chi^2/\text{NDF}$ : 614586.1/13

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

Left In: 857.661 +/- 0.191  $\chi^2/\text{NDF}$ : 540190.1/12

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: 61.324 $\pm$ 19.095  $\chi^2$ /NDF:19.4/13

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

Left In: 45.610 $\pm$ 19.202  $\chi^2$ /NDF:9.4/12

Left: 53.512 $\pm$ 13.540  $\chi^2$ /NDF: 29.2/26

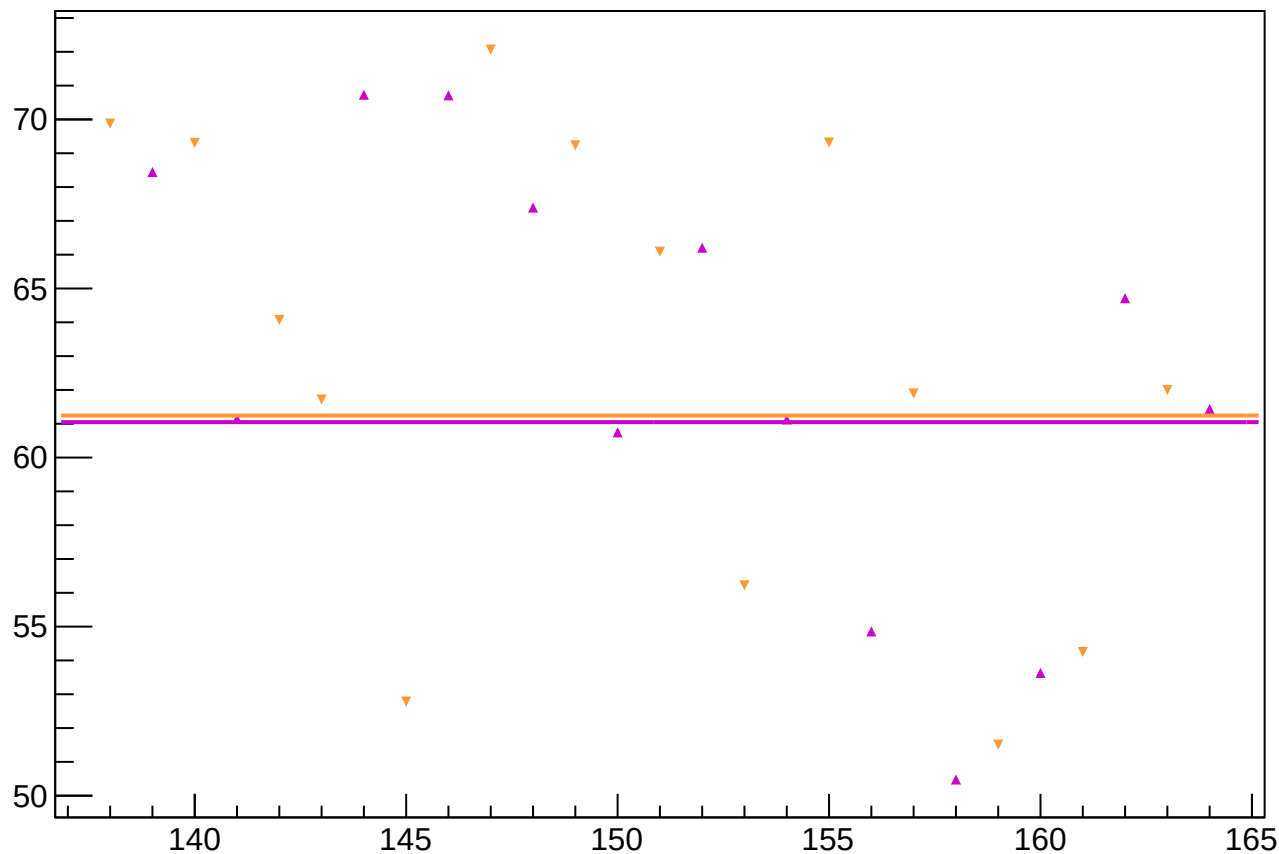
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 45.610 $\pm$ 19.202  $\chi^2$ /NDF:9.4/12

Out: 61.324 $\pm$ 19.095  $\chi^2$ /NDF:19.4/13

All: 53.512 $\pm$ 13.540  $\chi^2$ /NDF: 29.2/26

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: 61.243+/-0.014  $\chi^2/\text{NDF}$ :266323.4/13

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

Left In: 61.048+/-0.014  $\chi^2/\text{NDF}$ :228810.1/12

Left: 61.146+/-0.010  $\chi^2/\text{NDF}$ : 495237.5/26

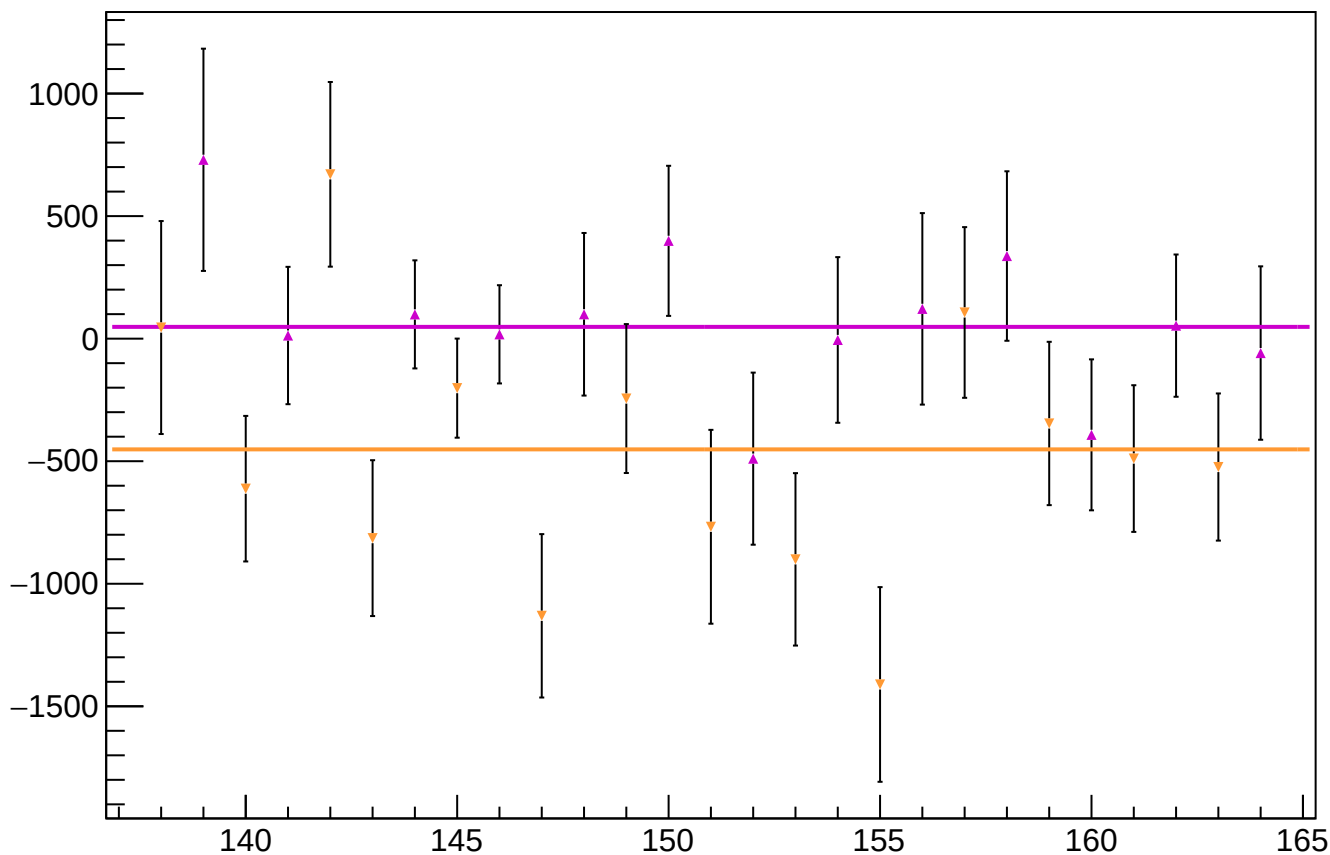
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 61.048+/-0.014  $\chi^2/\text{NDF}$ :228810.1/12

Out: 61.243+/-0.014  $\chi^2/\text{NDF}$ :266323.4/13

All: 61.146+/-0.010  $\chi^2/\text{NDF}$ : 495237.5/26

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: -451.742+/-85.059  $\chi^2/\text{NDF}$ :28.8/13

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

Left In: 48.085+/-83.038  $\chi^2/\text{NDF}$ :8.9/12

Left: -195.820+/-59.419  $\chi^2/\text{NDF}$ : 55.4/26

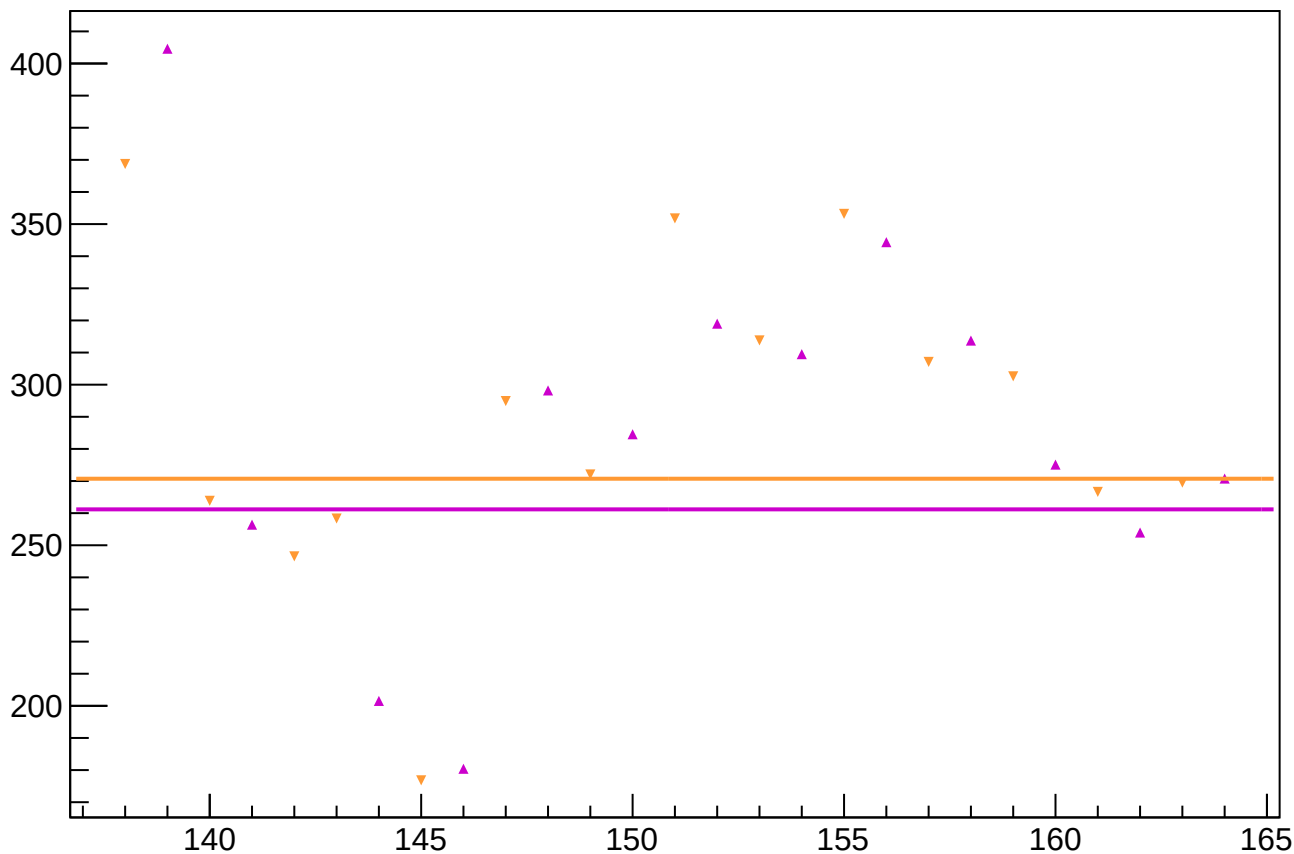
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 48.085+/-83.038  $\chi^2/\text{NDF}$ :8.9/12

Out: -451.742+/-85.059  $\chi^2/\text{NDF}$ :28.8/13

All: -195.820+/-59.419  $\chi^2/\text{NDF}$ : 55.4/26

asym\_sam\_1526\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 270.717+/-0.060  $\chi^2/NDF$ :796955.7/13

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

Left In: 261.177+/-0.059  $\chi^2/NDF$ :947443.5/12

Left: 265.832+/-0.042  $\chi^2/NDF$ : 1757280.3/26

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

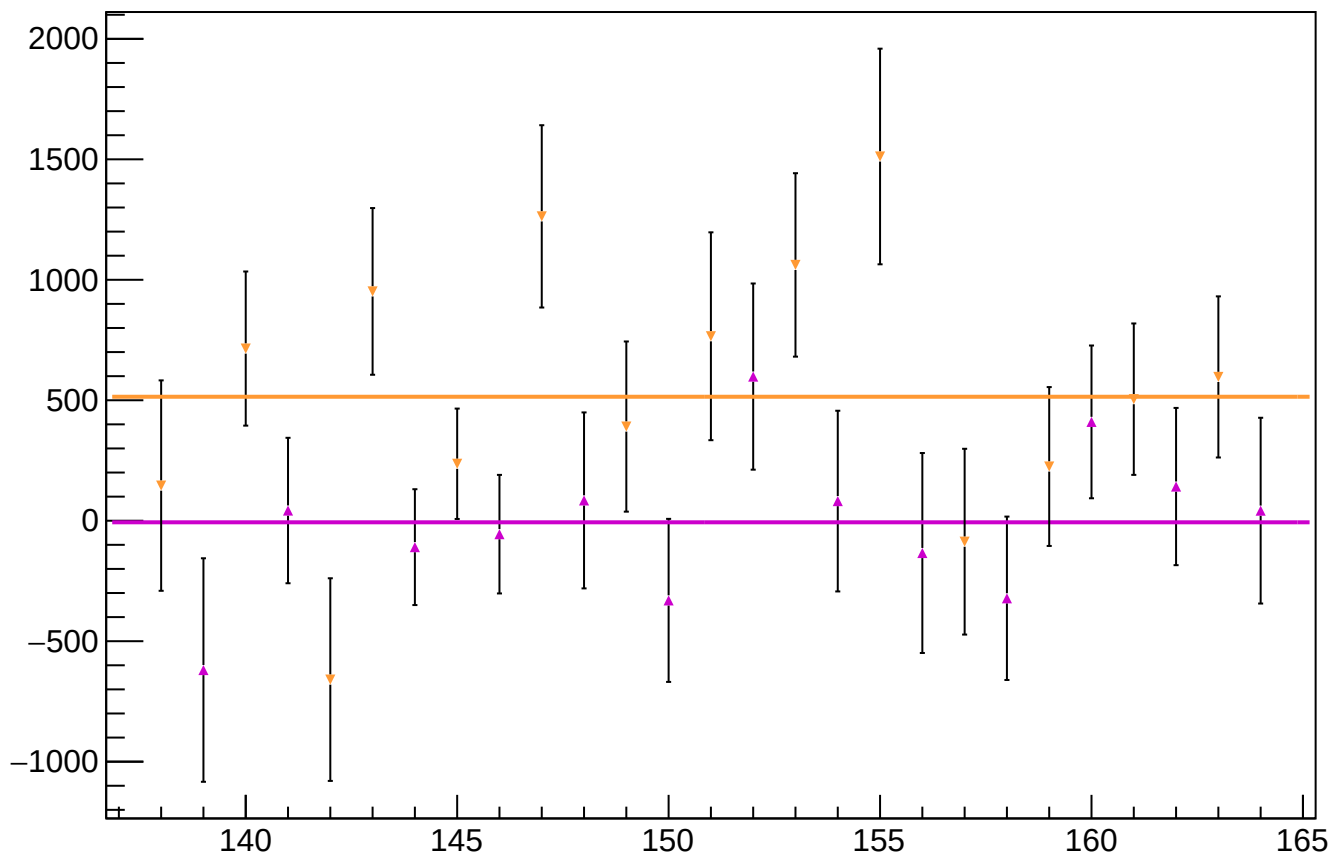
In: 261.177+/-0.059  $\chi^2/NDF$ :947443.5/12

Out: 270.717+/-0.060  $\chi^2/NDF$ :796955.7/13

All: 265.832+/-0.042  $\chi^2/NDF$ : 1757280.3/26



asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 514.594+/-93.108  $\chi^2/\text{NDF}$ :26.6/13

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

Left In: -6.518+/-91.263  $\chi^2/\text{NDF}$ :8.4/12

Left: 248.826+/-65.175  $\chi^2/\text{NDF}$ : 51.0/26

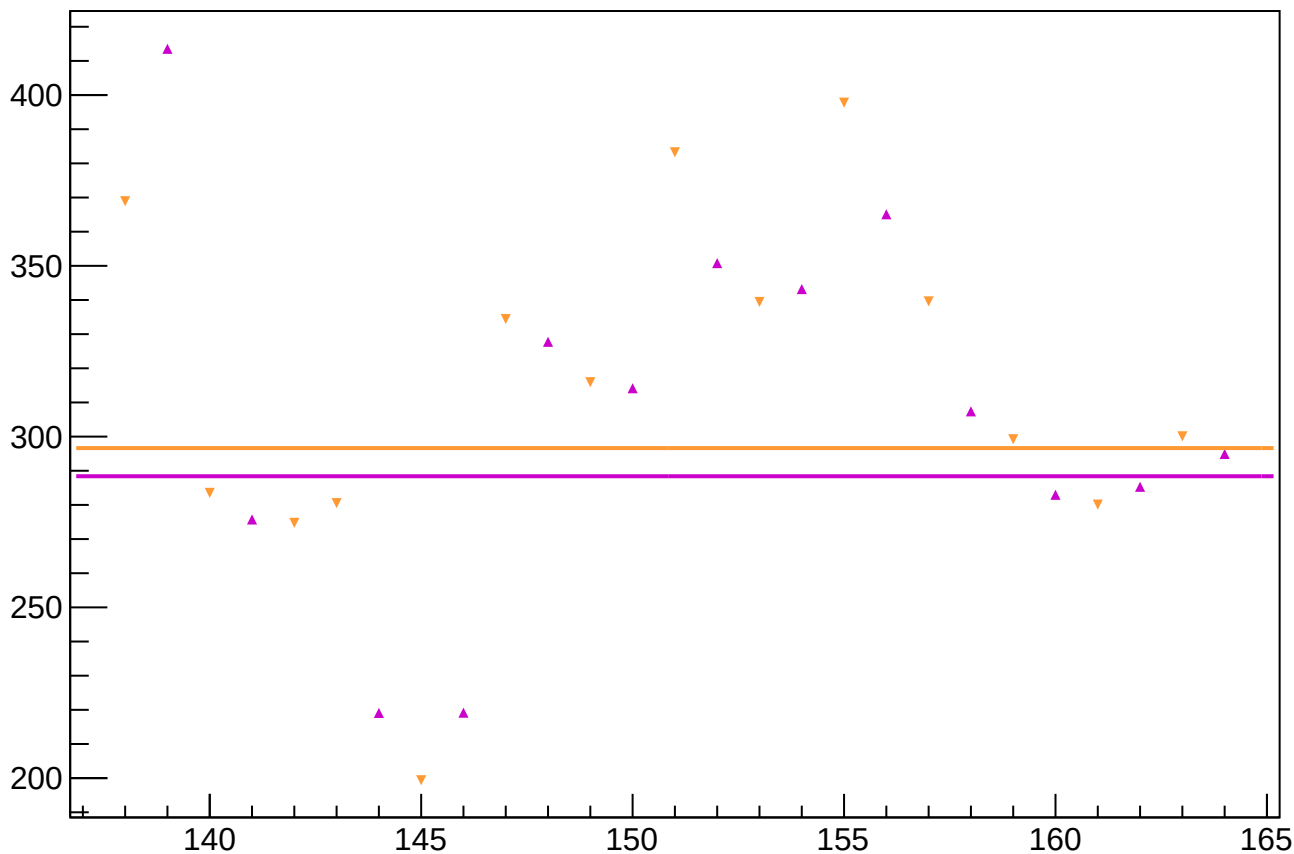
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.518+/-91.263  $\chi^2/\text{NDF}$ :8.4/12

Out: 514.594+/-93.108  $\chi^2/\text{NDF}$ :26.6/13

All: 248.826+/-65.175  $\chi^2/\text{NDF}$ : 51.0/26

asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 296.637+/-0.066  $\chi^2/\text{NDF}$ : 693059.7/13

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

Left In: 288.397+/-0.065  $\chi^2/\text{NDF}$ : 679277.9/12

Left: 292.435+/-0.046  $\chi^2/\text{NDF}$ : 1380326.2/26

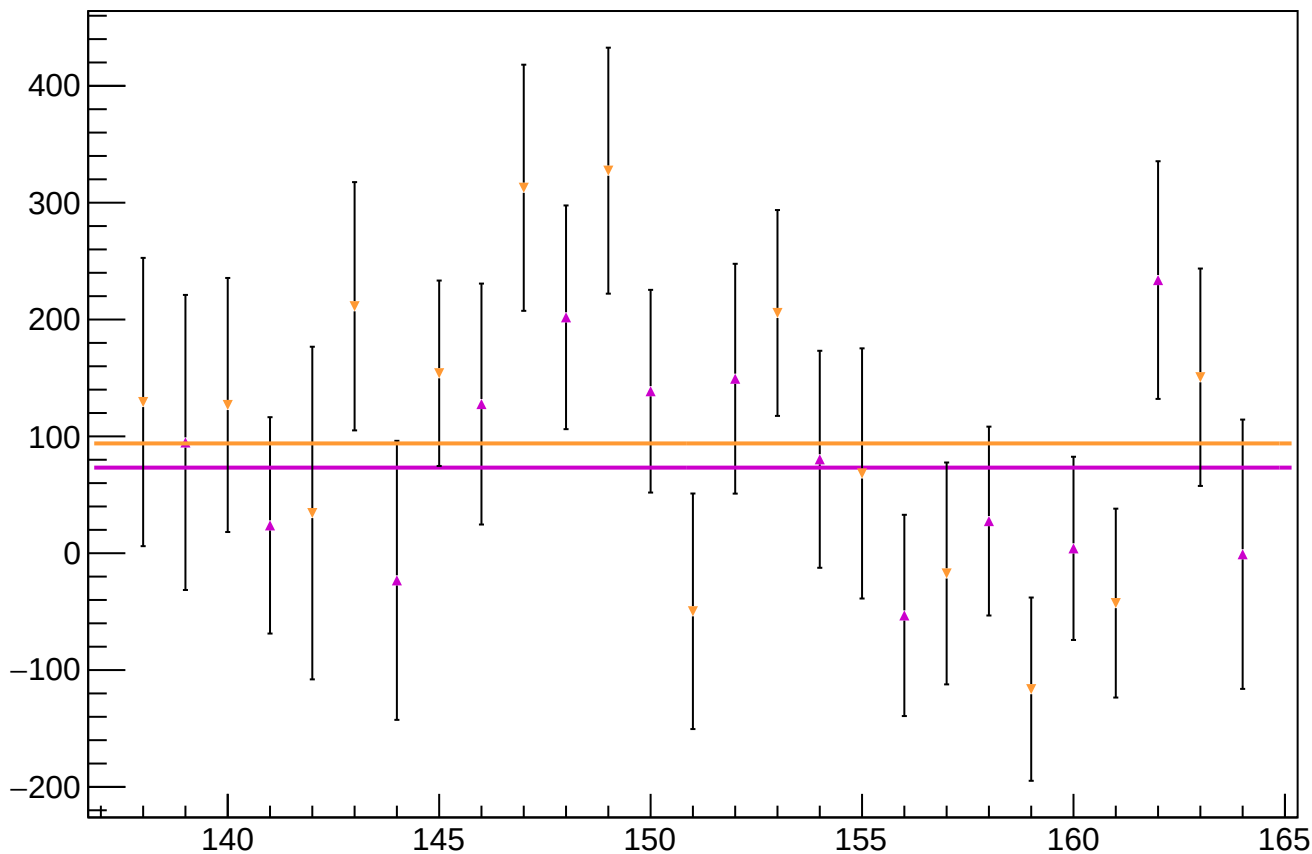
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 288.397+/-0.065  $\chi^2/\text{NDF}$ : 679277.9/12

Out: 296.637+/-0.066  $\chi^2/\text{NDF}$ : 693059.7/13

All: 292.435+/-0.046  $\chi^2/\text{NDF}$ : 1380326.2/26

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: 93.970 $\pm$ 25.957  $\chi^2$ /NDF:26.9/13

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

Left In: 73.260 $\pm$ 26.467  $\chi^2$ /NDF:10.4/12

Left: 83.816 $\pm$ 18.532  $\chi^2$ /NDF: 37.6/26

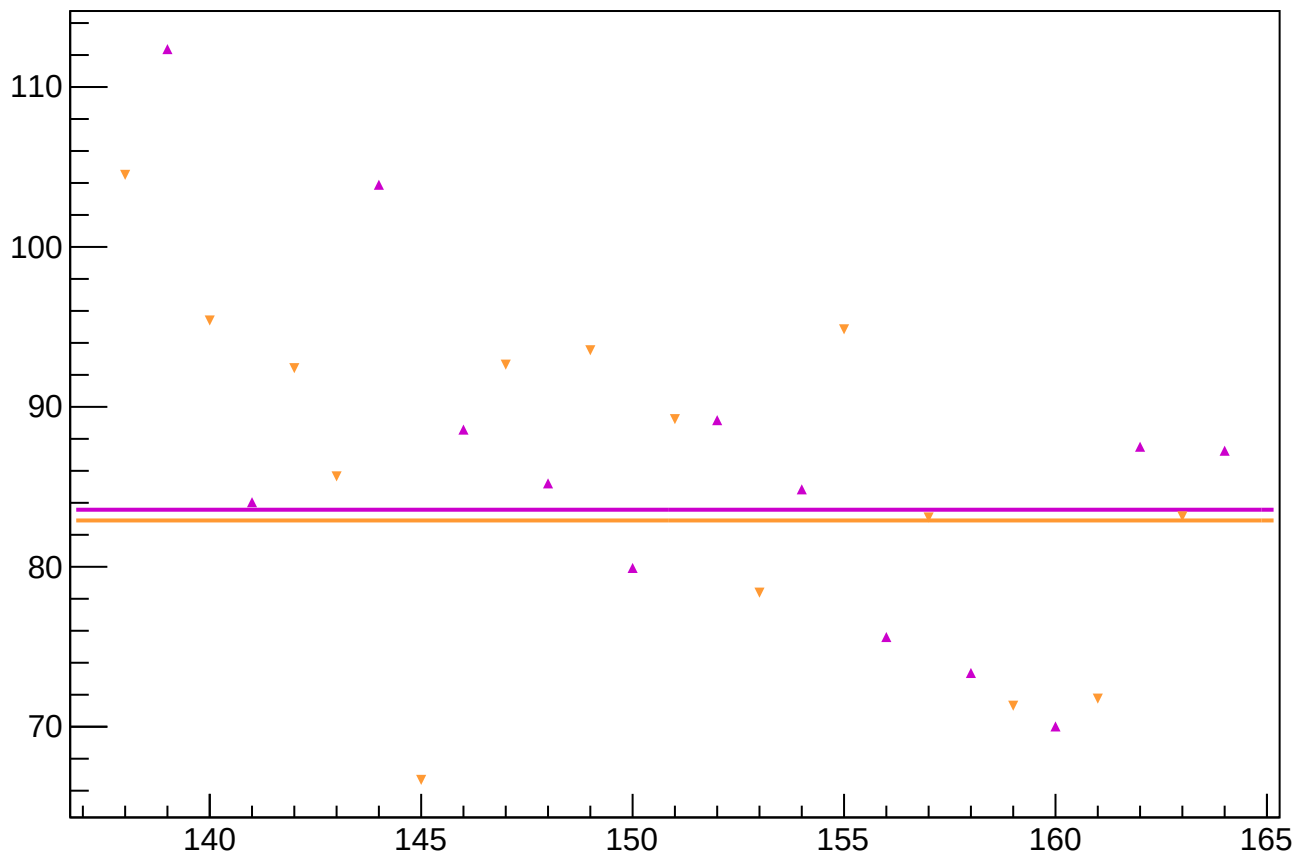
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 73.260 $\pm$ 26.467  $\chi^2$ /NDF:10.4/12

Out: 93.970 $\pm$ 25.957  $\chi^2$ /NDF:26.9/13

All: 83.816 $\pm$ 18.532  $\chi^2$ /NDF: 37.6/26

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: 82.897+/-0.018  $\chi^2/\text{NDF}$ :339008.1/13

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

Left In: 83.568+/-0.019  $\chi^2/\text{NDF}$ :291515.5/12

Left: 83.226+/-0.013  $\chi^2/\text{NDF}$ : 631179.2/26

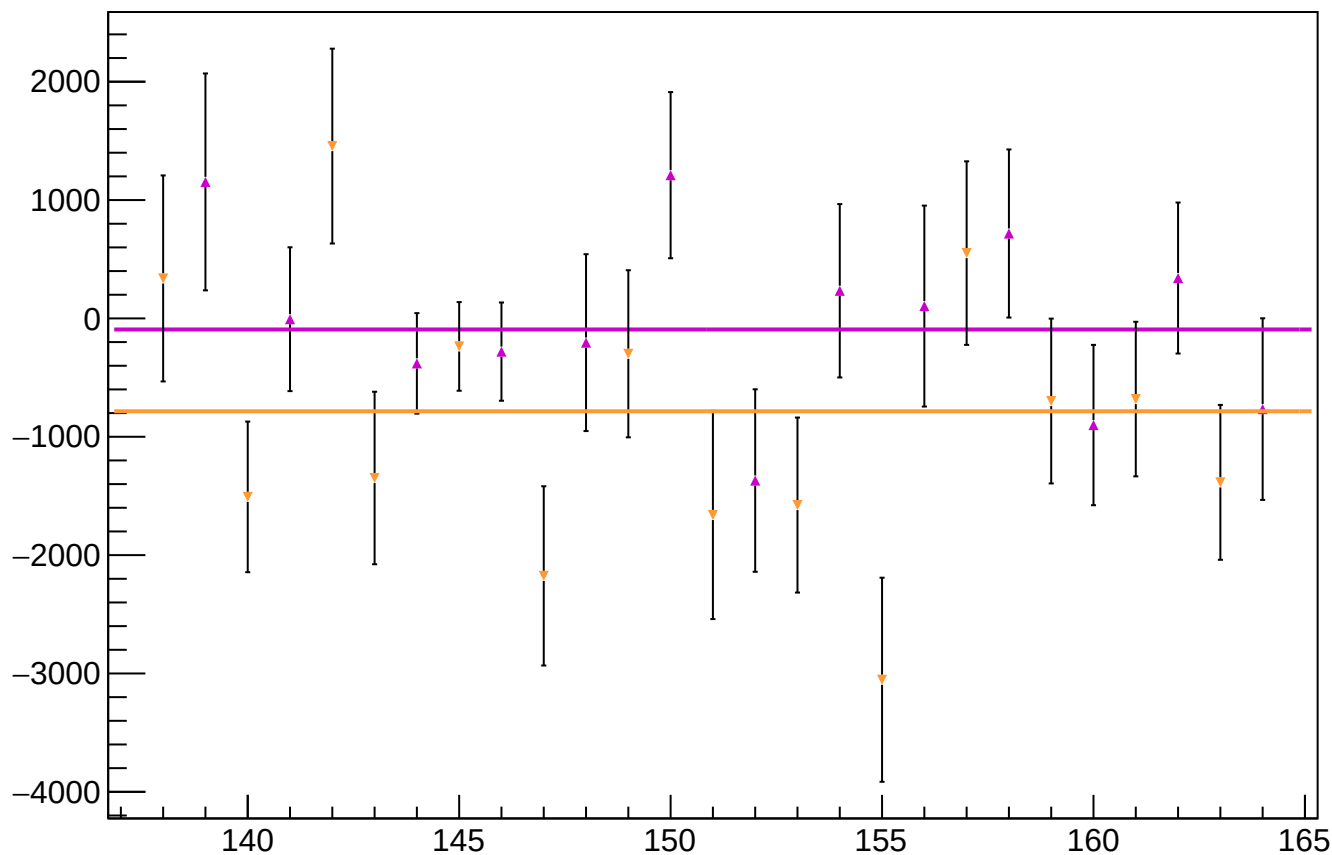
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 83.568+/-0.019  $\chi^2/\text{NDF}$ :291515.5/12

Out: 82.897+/-0.018  $\chi^2/\text{NDF}$ :339008.1/13

All: 83.226+/-0.013  $\chi^2/\text{NDF}$ : 631179.2/26

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: -784.534 $\pm$ 179.893  $\chi^2$ /NDF:29.9/13

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

Left In: -93.450 $\pm$ 175.885  $\chi^2$ /NDF:13.0/12

Left: -431.207 $\pm$ 125.762  $\chi^2$ /NDF: 50.4/26

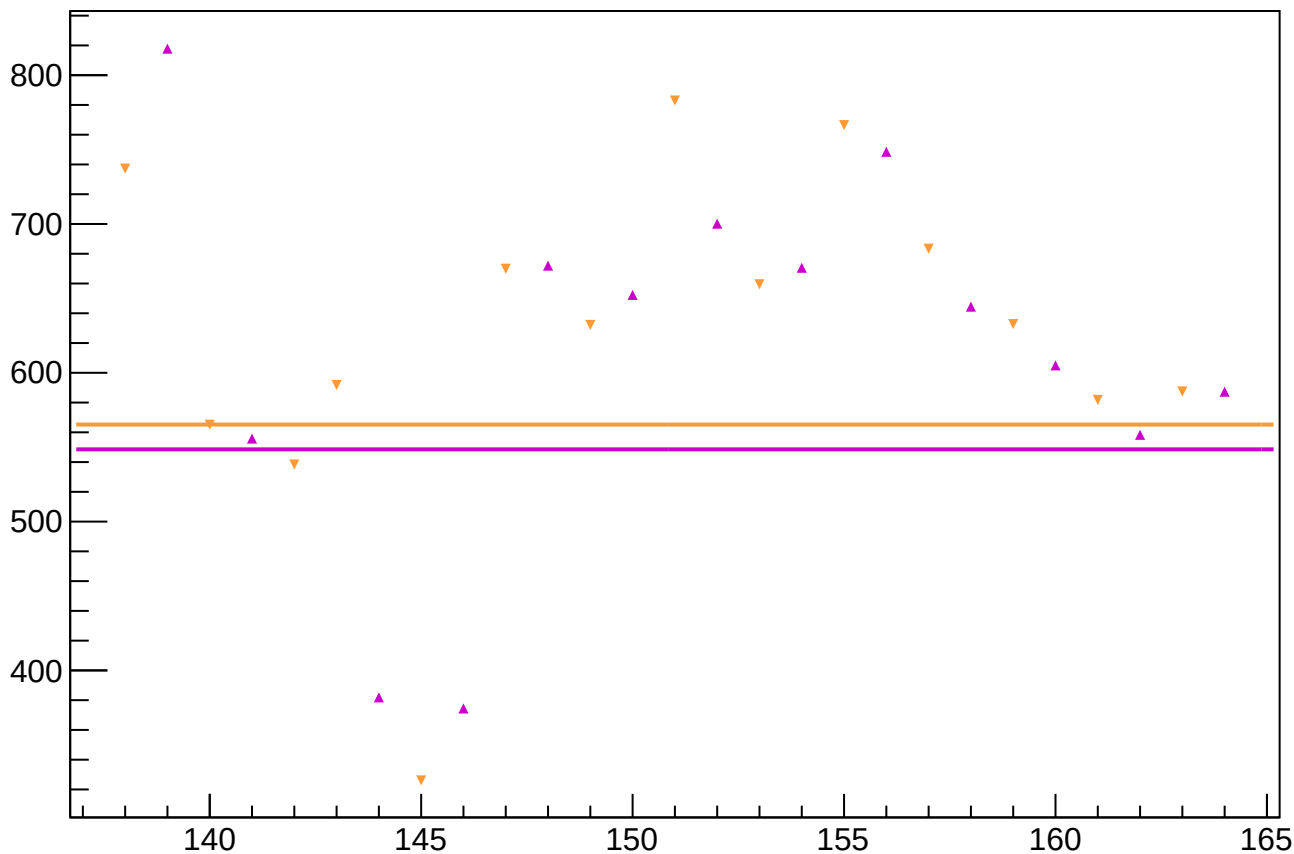
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -93.450 $\pm$ 175.885  $\chi^2$ /NDF:13.0/12

Out: -784.534 $\pm$ 179.893  $\chi^2$ /NDF:29.9/13

All: -431.207 $\pm$ 125.762  $\chi^2$ /NDF: 50.4/26

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: 565.229+/-0.127  $\chi^2/\text{NDF}$ :1287321.6/13

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

Left In: 548.554+/-0.124  $\chi^2/\text{NDF}$ :1231391.1/12

Left: 556.704+/-0.089  $\chi^2/\text{NDF}$ : 2527498.5/26

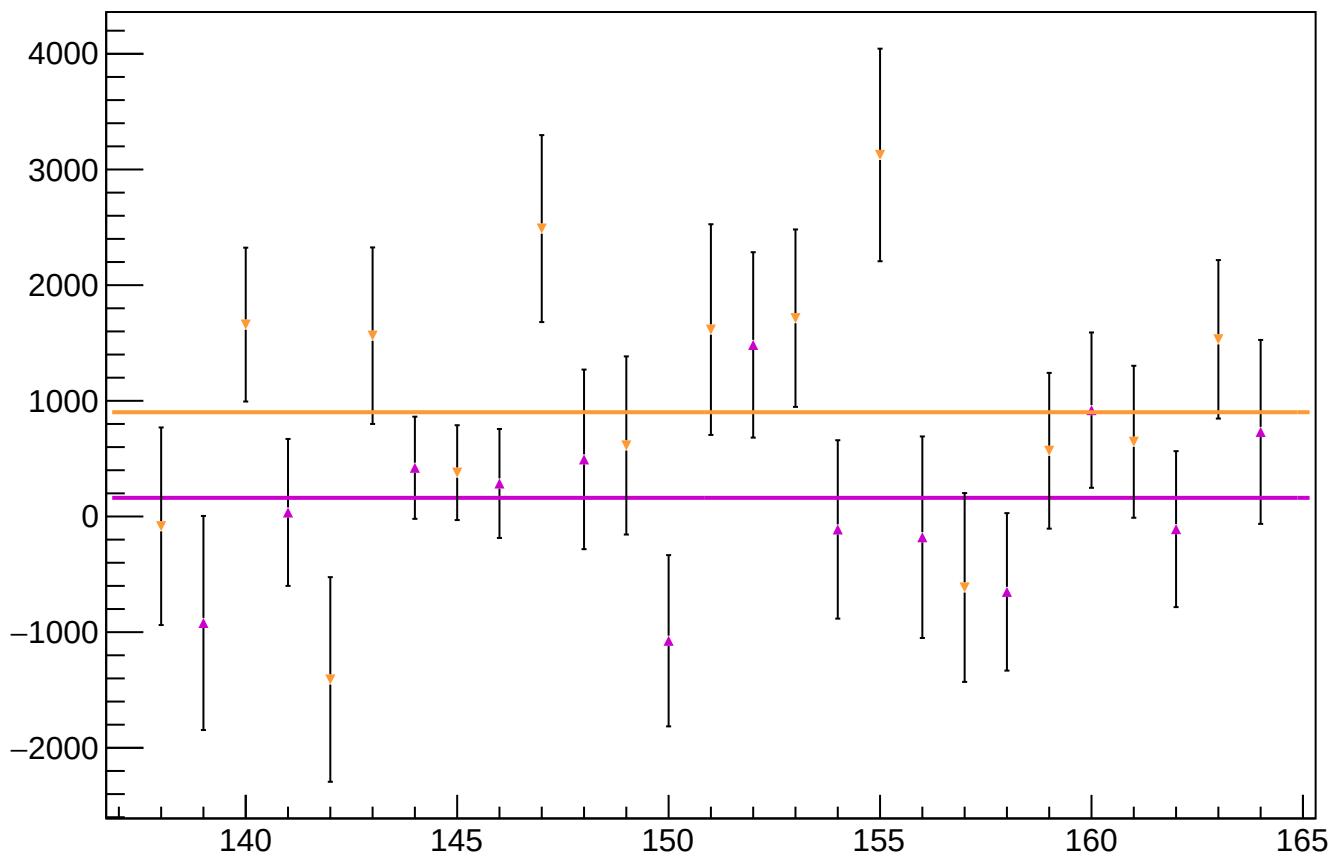
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 548.554+/-0.124  $\chi^2/\text{NDF}$ :1231391.1/12

Out: 565.229+/-0.127  $\chi^2/\text{NDF}$ :1287321.6/13

All: 556.704+/-0.089  $\chi^2/\text{NDF}$ : 2527498.5/26

# asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 901.572+/-188.866  $\chi^2/\text{NDF}$ : 28.1/13

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

Left In: 161.199+/-184.195  $\chi^2/\text{NDF}$ : 11.2/12

Left: 522.117+/-131.866  $\chi^2/\text{NDF}$ : 47.2/26

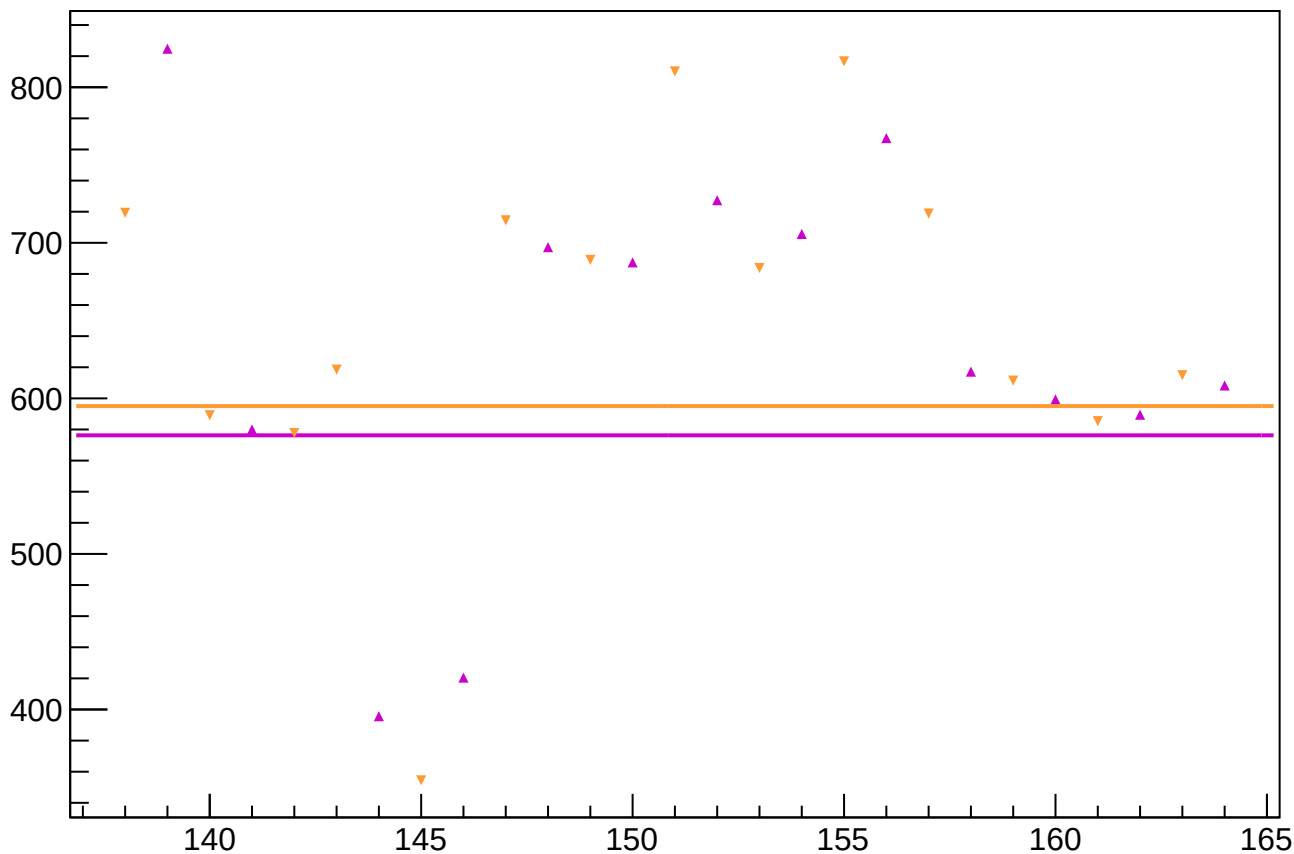
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 161.199+/-184.195  $\chi^2/\text{NDF}$ : 11.2/12

Out: 901.572+/-188.866  $\chi^2/\text{NDF}$ : 28.1/13

All: 522.117+/-131.866  $\chi^2/\text{NDF}$ : 47.2/26

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 595.031+/-0.134  $\chi^2/\text{NDF}$ :1111248.2/13

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

Left In: 576.241+/-0.130  $\chi^2/\text{NDF}$ :1028196.8/12

Left: 585.401+/-0.093  $\chi^2/\text{NDF}$ : 2149590.7/26

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

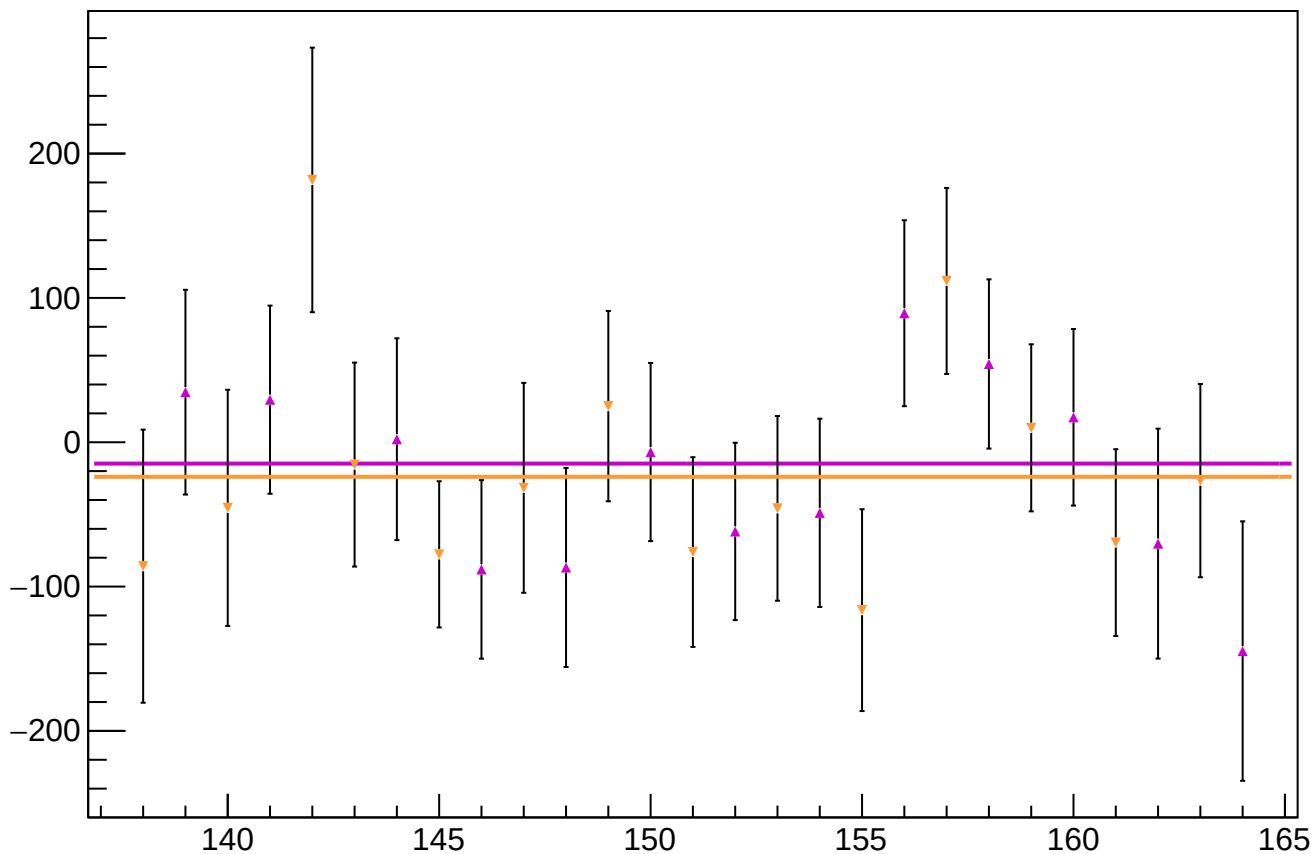
In: 576.241+/-0.130  $\chi^2/\text{NDF}$ :1028196.8/12

Out: 595.031+/-0.134  $\chi^2/\text{NDF}$ :1111248.2/13

All: 585.401+/-0.093  $\chi^2/\text{NDF}$ : 2149590.7/26



dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -23.955 $\pm$ 18.046  $\chi^2$ /NDF:15.0/13

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

Left In: -14.788 $\pm$ 18.402  $\chi^2$ /NDF:11.2/12

Left: -19.461 $\pm$ 12.884  $\chi^2$ /NDF: 26.4/26

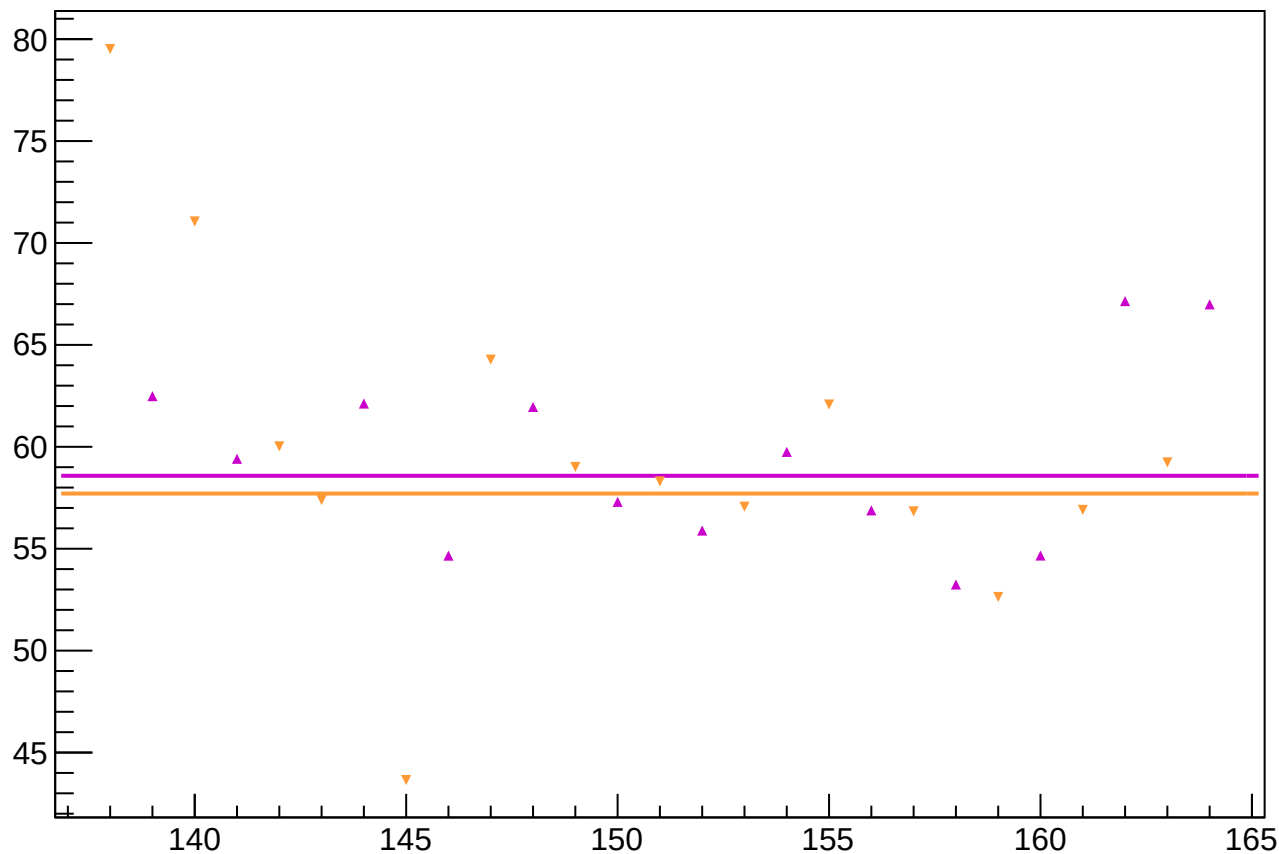
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -14.788 $\pm$ 18.402  $\chi^2$ /NDF:11.2/12

Out: -23.955 $\pm$ 18.046  $\chi^2$ /NDF:15.0/13

All: -19.461 $\pm$ 12.884  $\chi^2$ /NDF: 26.4/26

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: 57.708+/-0.013  $\chi^2/\text{NDF}$ :357178.2/13

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

Left In: 58.578+/-0.013  $\chi^2/\text{NDF}$ :96453.9/12

Left: 58.134+/-0.009  $\chi^2/\text{NDF}$ : 455912.5/26

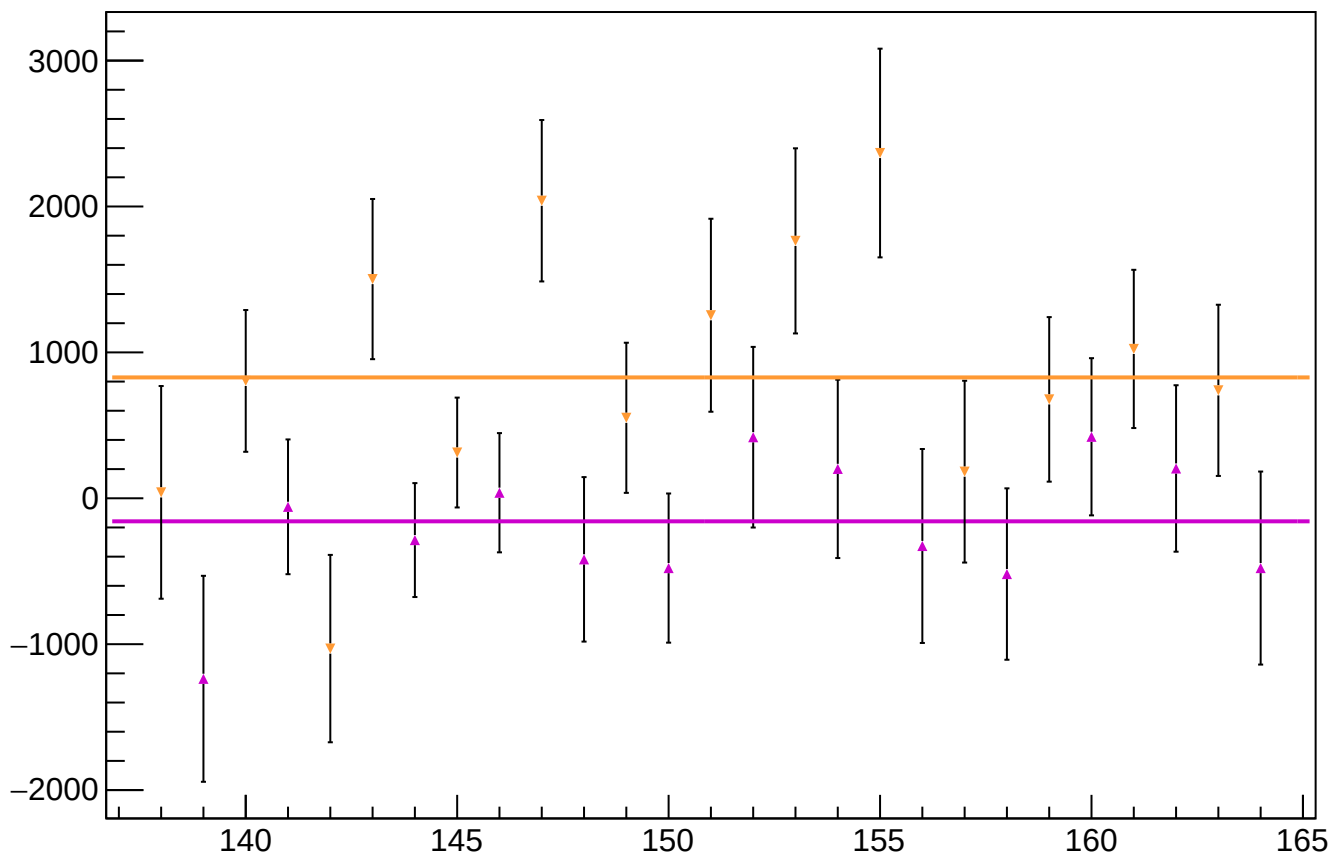
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 58.578+/-0.013  $\chi^2/\text{NDF}$ :96453.9/12

Out: 57.708+/-0.013  $\chi^2/\text{NDF}$ :357178.2/13

All: 58.134+/-0.009  $\chi^2/\text{NDF}$ : 455912.5/26

asym\_sam\_15\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 828.437+/-149.550  $\chi^2/\text{NDF}$ :26.5/13

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

Left In: -157.927+/-148.302  $\chi^2/\text{NDF}$ :6.8/12

Left: 331.123+/-105.304  $\chi^2/\text{NDF}$ : 55.2/26

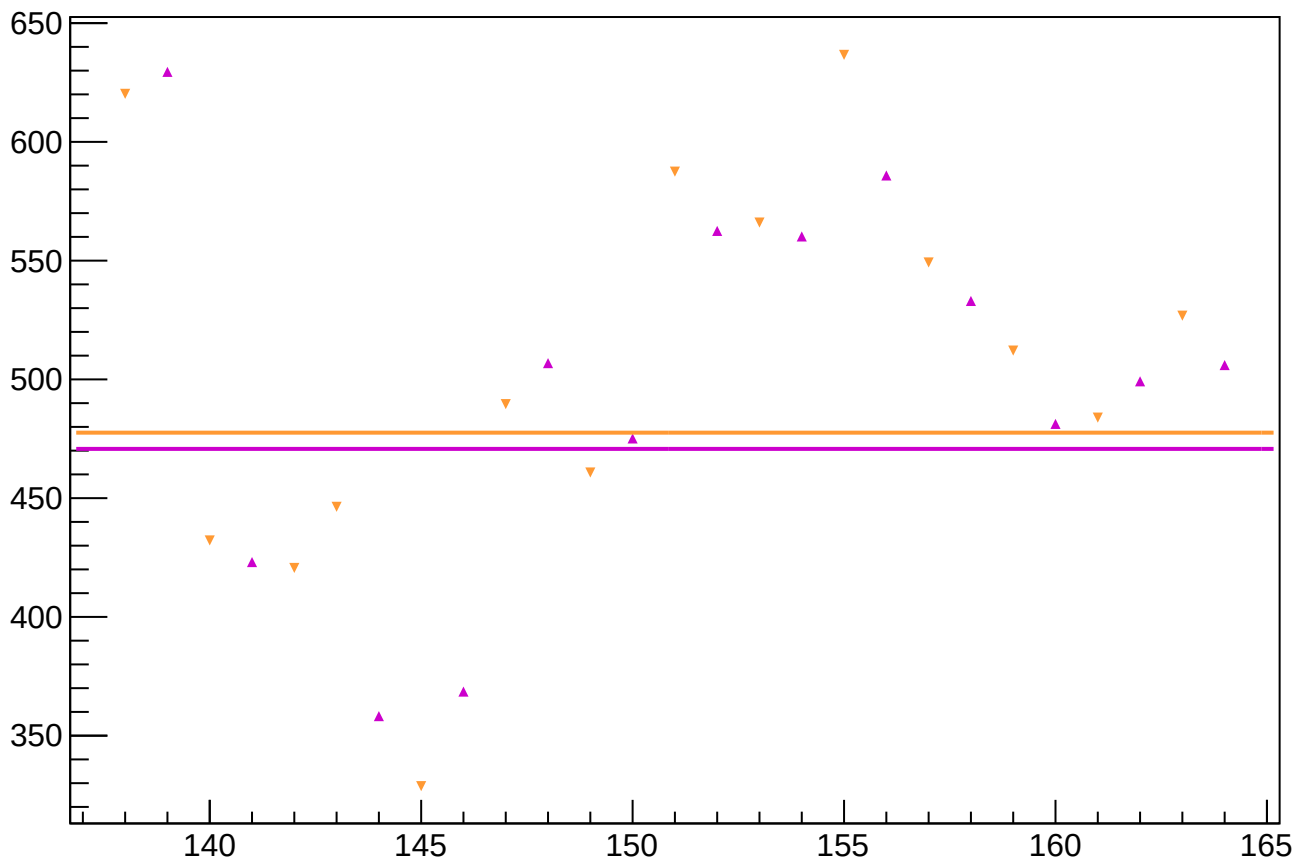
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -157.927+/-148.302  $\chi^2/\text{NDF}$ :6.8/12

Out: 828.437+/-149.550  $\chi^2/\text{NDF}$ :26.5/13

All: 331.123+/-105.304  $\chi^2/\text{NDF}$ : 55.2/26

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: 477.578+/-0.106  $\chi^2/\text{NDF}$ : 673221.3/13

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

Left In: 470.740+/-0.105  $\chi^2/\text{NDF}$ : 602619.2/12

Left: 474.130+/-0.074  $\chi^2/\text{NDF}$ : 1277949.1/26

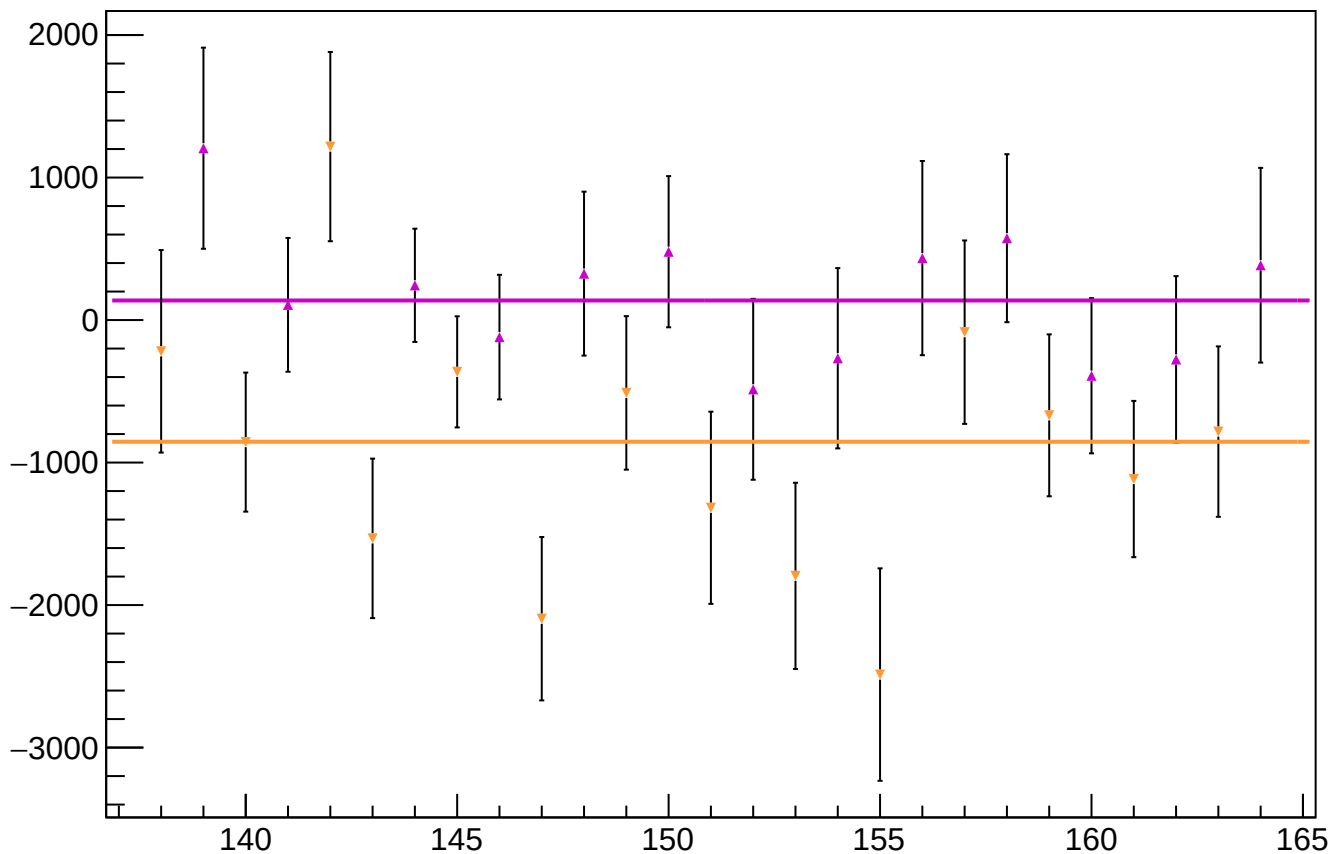
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 470.740+/-0.105  $\chi^2/\text{NDF}$ : 602619.2/12

Out: 477.578+/-0.106  $\chi^2/\text{NDF}$ : 673221.3/13

All: 474.130+/-0.074  $\chi^2/\text{NDF}$ : 1277949.1/26

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: -853.925+/-153.050  $\chi^2/\text{NDF}$ :27.8/13

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

Left In: 137.351+/-152.240  $\chi^2/\text{NDF}$ :6.9/12

Left: -355.659+/-107.935  $\chi^2/\text{NDF}$ : 55.8/26

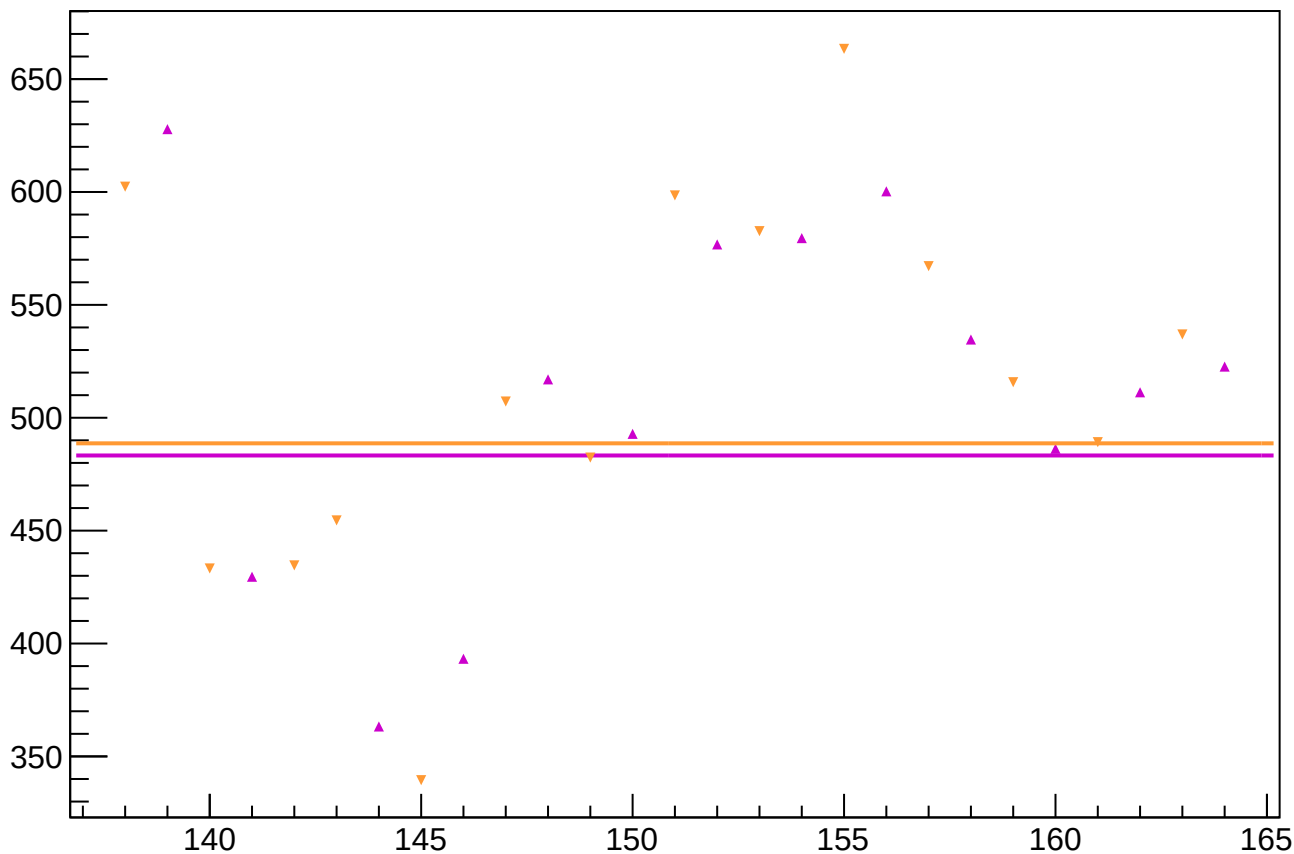
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 137.351+/-152.240  $\chi^2/\text{NDF}$ :6.9/12

Out: -853.925+/-153.050  $\chi^2/\text{NDF}$ :27.8/13

All: -355.659+/-107.935  $\chi^2/\text{NDF}$ : 55.8/26

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: 488.671+/-0.108  $\chi^2/\text{NDF}$ :644511.5/13

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

Left In: 483.290+/-0.108  $\chi^2/\text{NDF}$ :560184.5/12

Left: 485.966+/-0.076  $\chi^2/\text{NDF}$ : 1205938.5/26

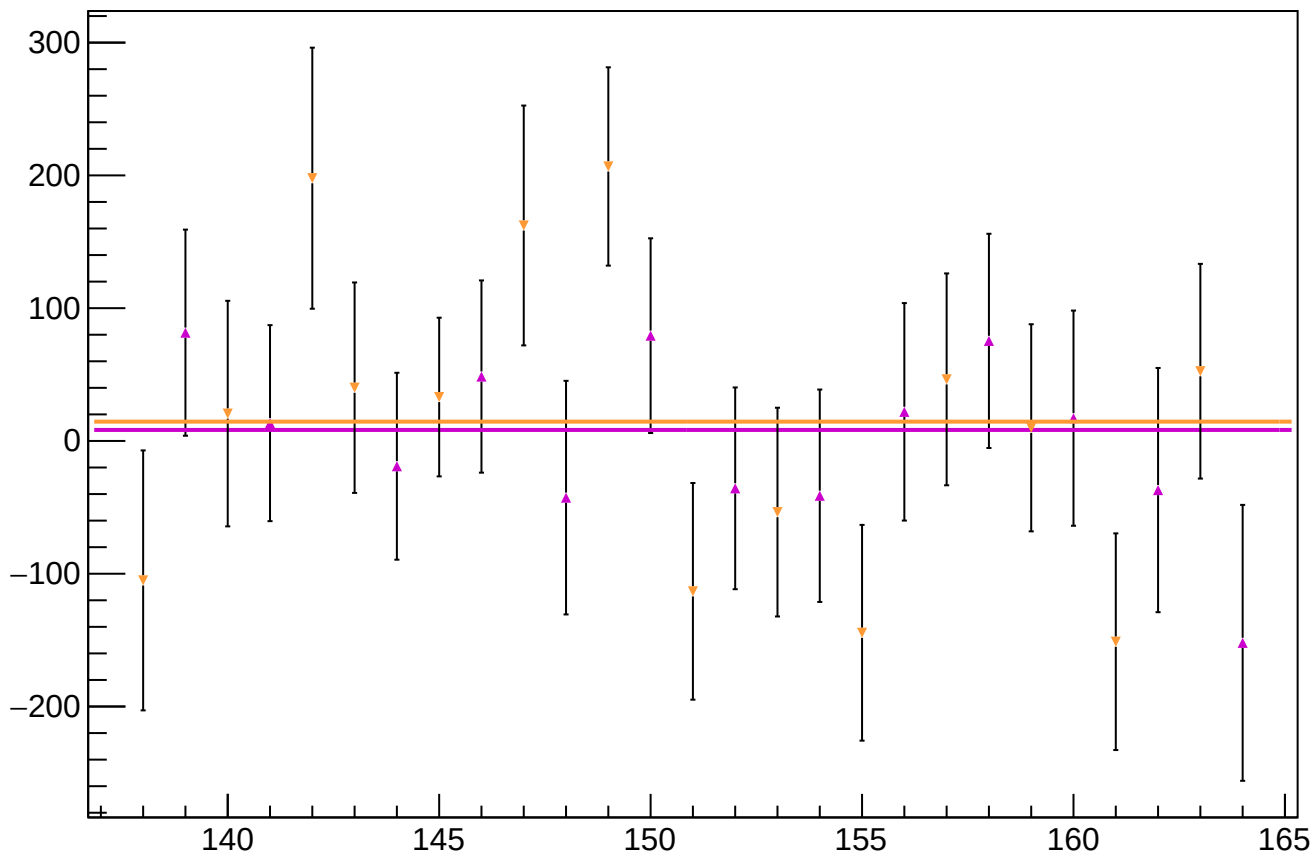
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 483.290+/-0.108  $\chi^2/\text{NDF}$ :560184.5/12

Out: 488.671+/-0.108  $\chi^2/\text{NDF}$ :644511.5/13

All: 485.966+/-0.076  $\chi^2/\text{NDF}$ : 1205938.5/26

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 14.544 $\pm$ 21.438  $\chi^2$ /NDF:26.0/13

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

Left In: 8.292 $\pm$ 22.070  $\chi^2$ /NDF:6.7/12

Left: 11.508 $\pm$ 15.377  $\chi^2$ /NDF: 32.8/26

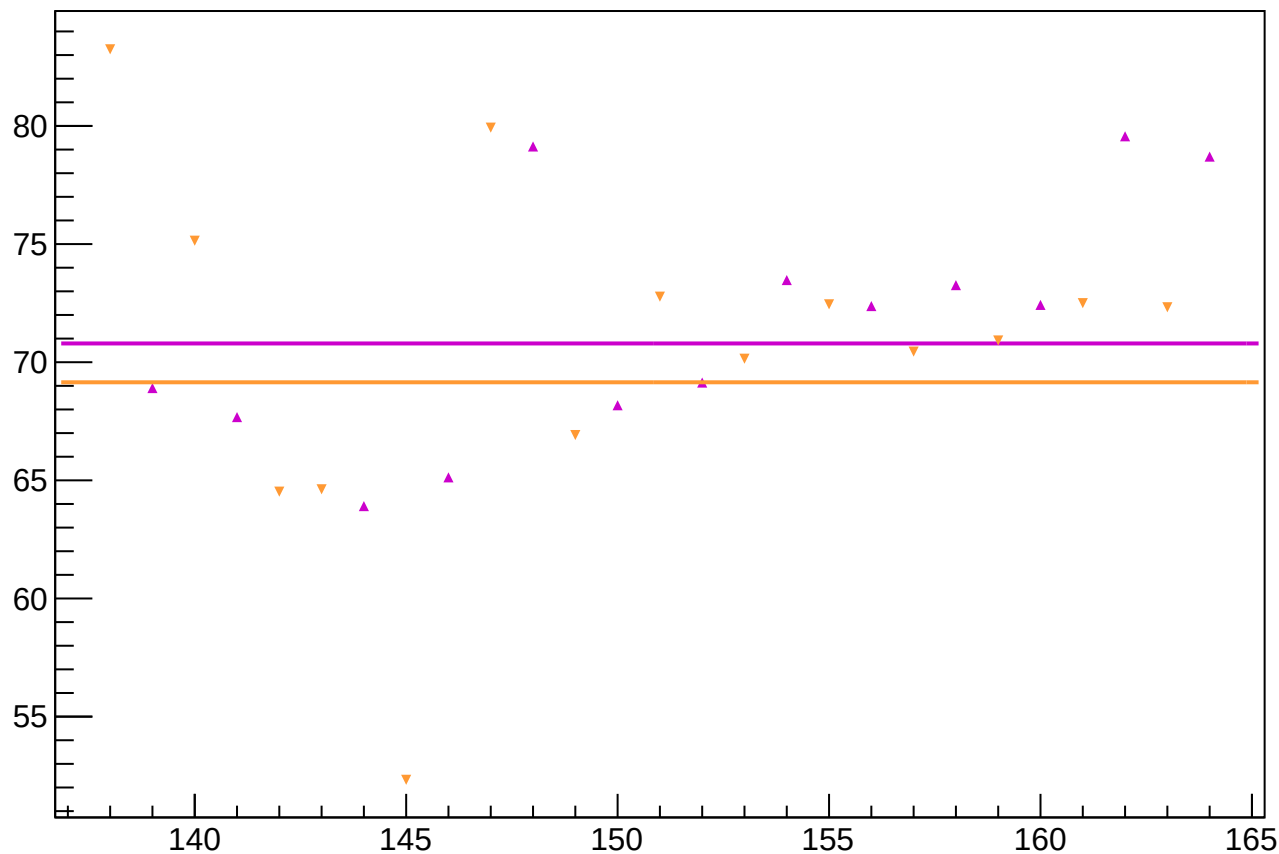
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 8.292 $\pm$ 22.070  $\chi^2$ /NDF:6.7/12

Out: 14.544 $\pm$ 21.438  $\chi^2$ /NDF:26.0/13

All: 11.508 $\pm$ 15.377  $\chi^2$ /NDF: 32.8/26

dit\_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: 69.150+/-0.015  $\chi^2/\text{NDF}$ :266764.1/13

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

Left In: 70.794+/-0.016  $\chi^2/\text{NDF}$ :93051.2/12

Left: 69.948+/-0.011  $\chi^2/\text{NDF}$ : 365523.8/26

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

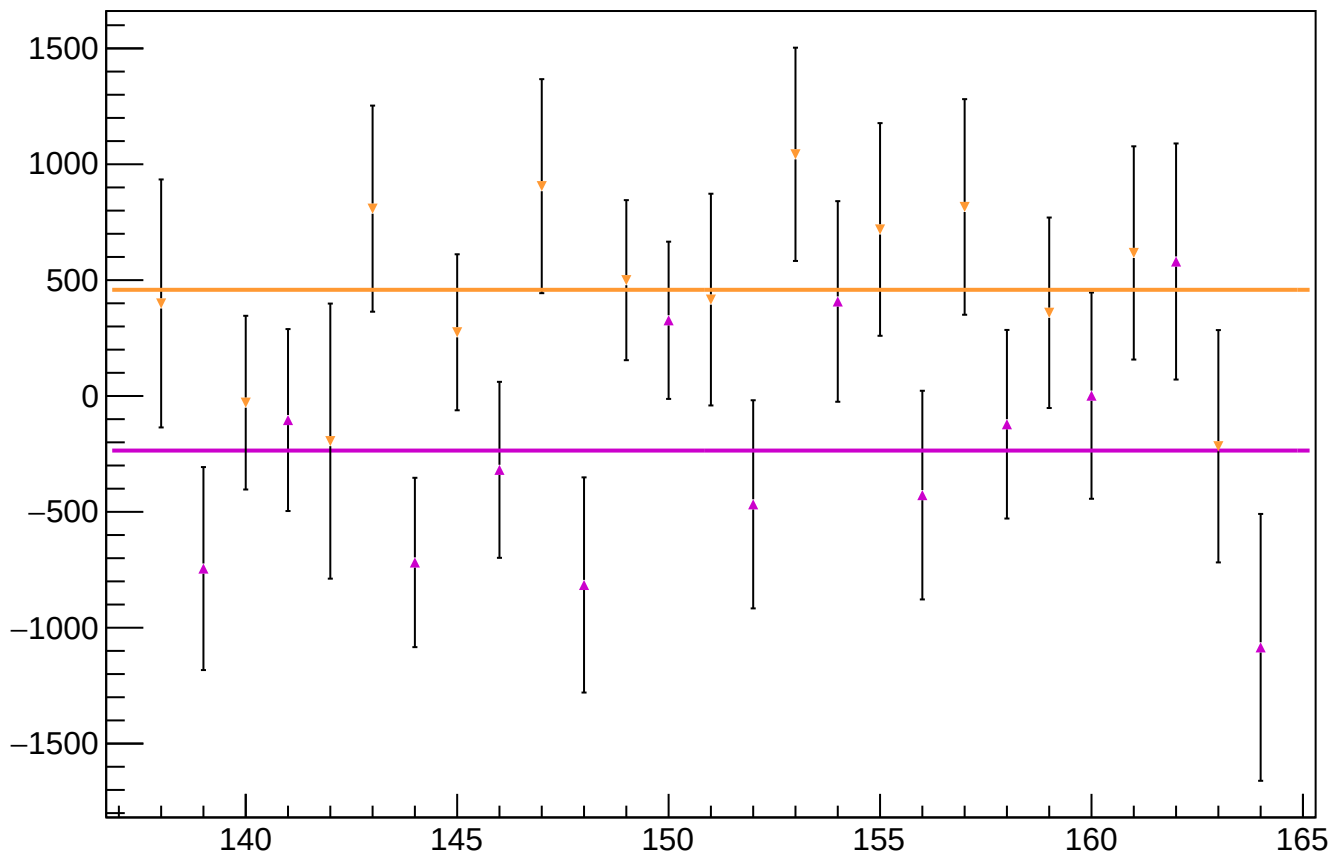
In: 70.794+/-0.016  $\chi^2/\text{NDF}$ :93051.2/12

Out: 69.150+/-0.015  $\chi^2/\text{NDF}$ :266764.1/13

All: 69.948+/-0.011  $\chi^2/\text{NDF}$ : 365523.8/26



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: 458.246+/-116.323  $\chi^2/\text{NDF}$ : 9.3/13

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

Left In: -235.498+/-117.336  $\chi^2/\text{NDF}$ : 15.3/12

Left: 114.382+/-82.608  $\chi^2/\text{NDF}$ : 42.3/26

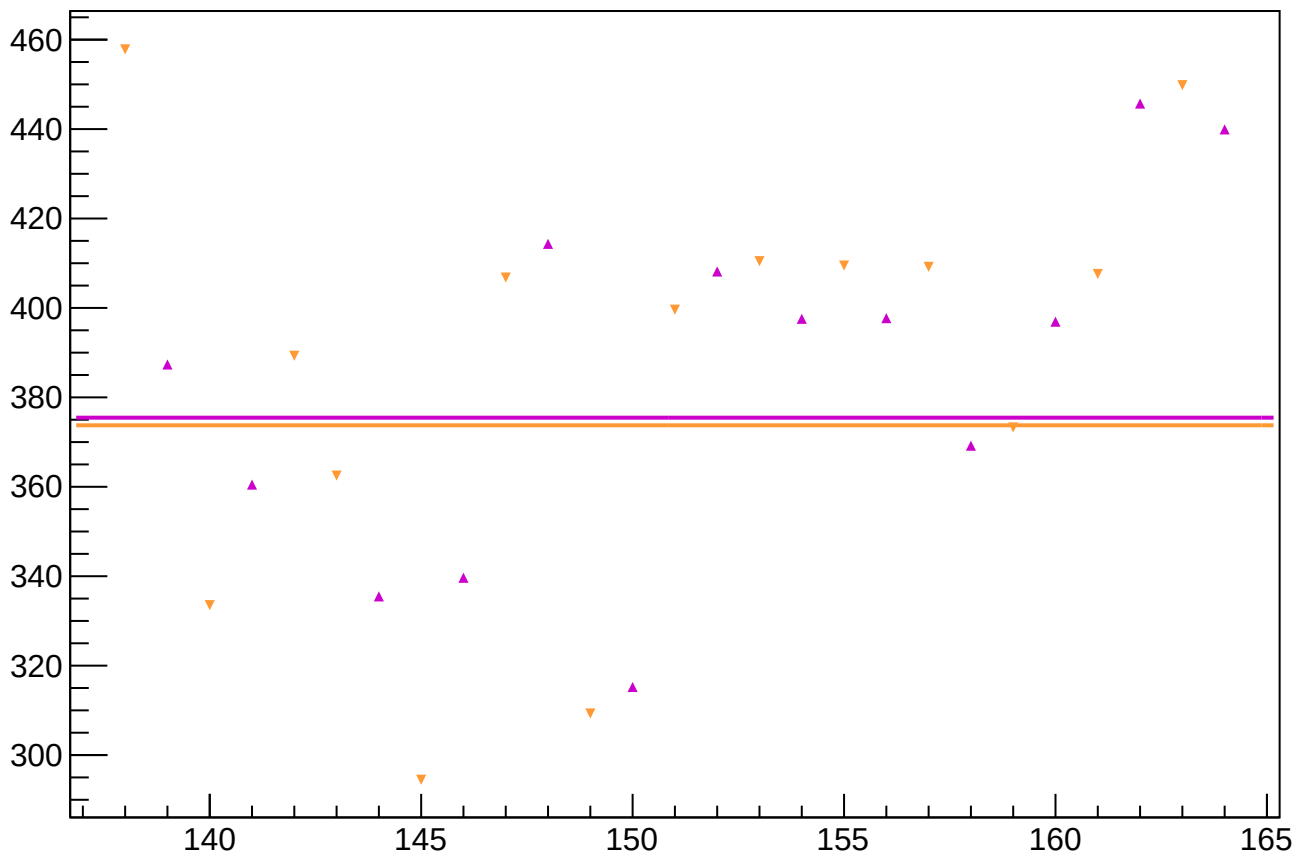
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -235.498+/-117.336  $\chi^2/\text{NDF}$ : 15.3/12

Out: 458.246+/-116.323  $\chi^2/\text{NDF}$ : 9.3/13

All: 114.382+/-82.608  $\chi^2/\text{NDF}$ : 42.3/26

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: 373.753+/-0.082  $\chi^2/\text{NDF}$ :365561.1/13

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

Left In: 375.459+/-0.083  $\chi^2/\text{NDF}$ :212092.7/12

Left: 374.599+/-0.058  $\chi^2/\text{NDF}$ : 577866.8/26

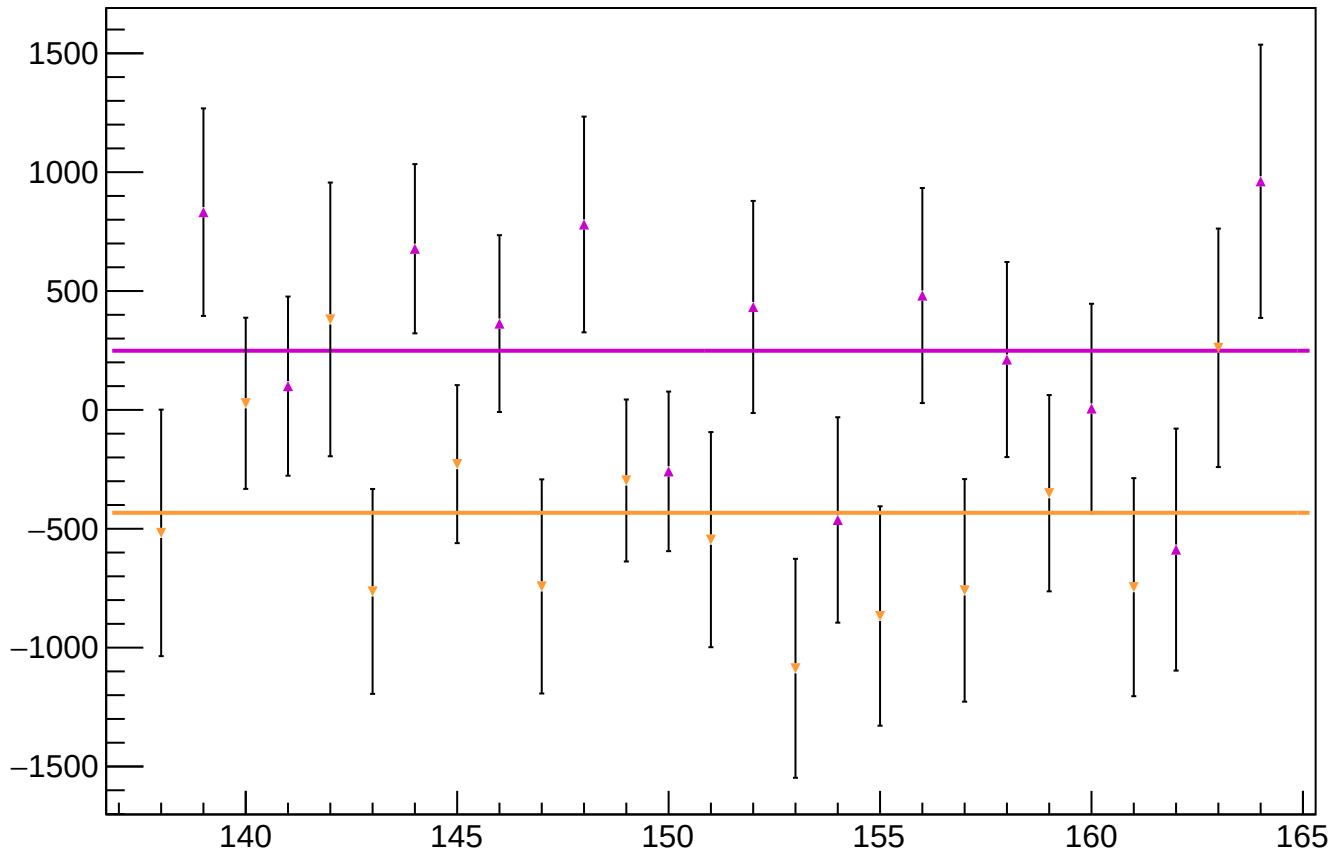
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 375.459+/-0.083  $\chi^2/\text{NDF}$ :212092.7/12

Out: 373.753+/-0.082  $\chi^2/\text{NDF}$ :365561.1/13

All: 374.599+/-0.058  $\chi^2/\text{NDF}$ : 577866.8/26

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: -432.825+/-114.792  $\chi^2/\text{NDF}$ :11.1/13

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

Left In: 248.921+/-115.942  $\chi^2/\text{NDF}$ :14.8/12

Left: -95.349+/-81.574  $\chi^2/\text{NDF}$ : 43.4/26

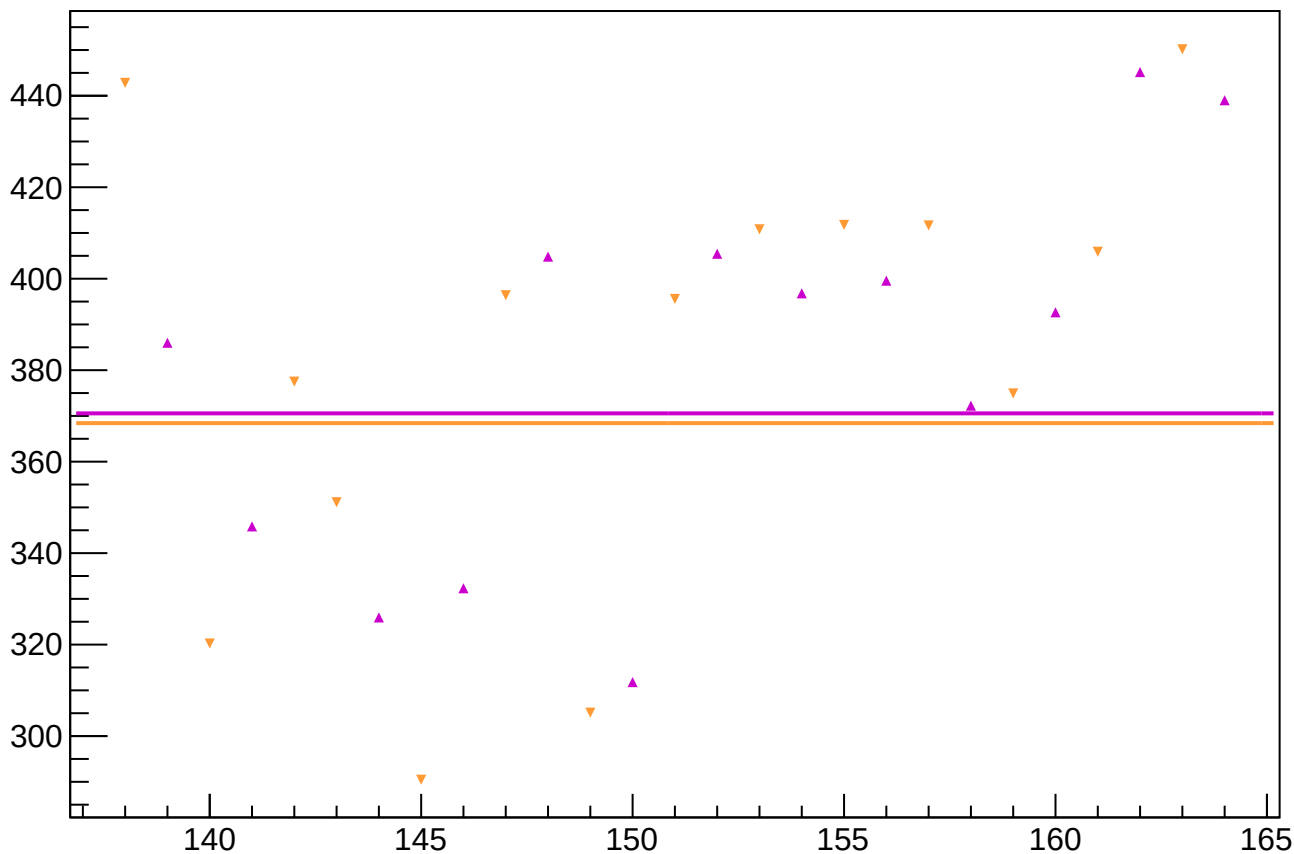
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 248.921+/-115.942  $\chi^2/\text{NDF}$ :14.8/12

Out: -432.825+/-114.792  $\chi^2/\text{NDF}$ :11.1/13

All: -95.349+/-81.574  $\chi^2/\text{NDF}$ : 43.4/26

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: 368.423+/-0.081  $\chi^2/\text{NDF}$ :393312.3/13

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

Left In: 370.560+/-0.082  $\chi^2/\text{NDF}$ :240625.3/12

Left: 369.481+/-0.058  $\chi^2/\text{NDF}$ : 634280.8/26

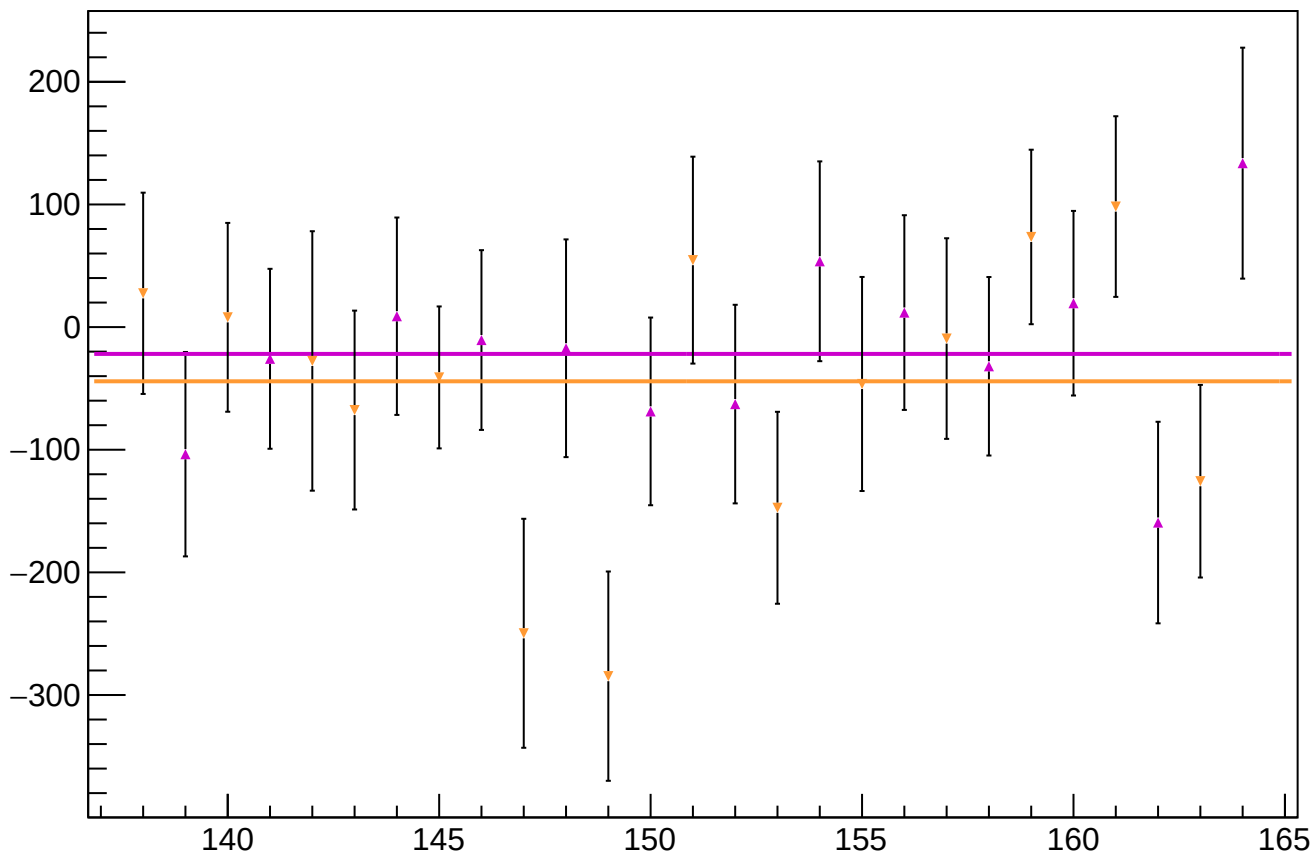
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 370.560+/-0.082  $\chi^2/\text{NDF}$ :240625.3/12

Out: 368.423+/-0.081  $\chi^2/\text{NDF}$ :393312.3/13

All: 369.481+/-0.058  $\chi^2/\text{NDF}$ : 634280.8/26

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:  $-44.195 \pm 21.139$   $\chi^2/\text{NDF}$ : 25.0/13

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

Left In:  $-21.869 \pm 22.053$   $\chi^2/\text{NDF}$ : 8.7/12

Left:  $-33.504 \pm 15.260$   $\chi^2/\text{NDF}$ : 34.2/26

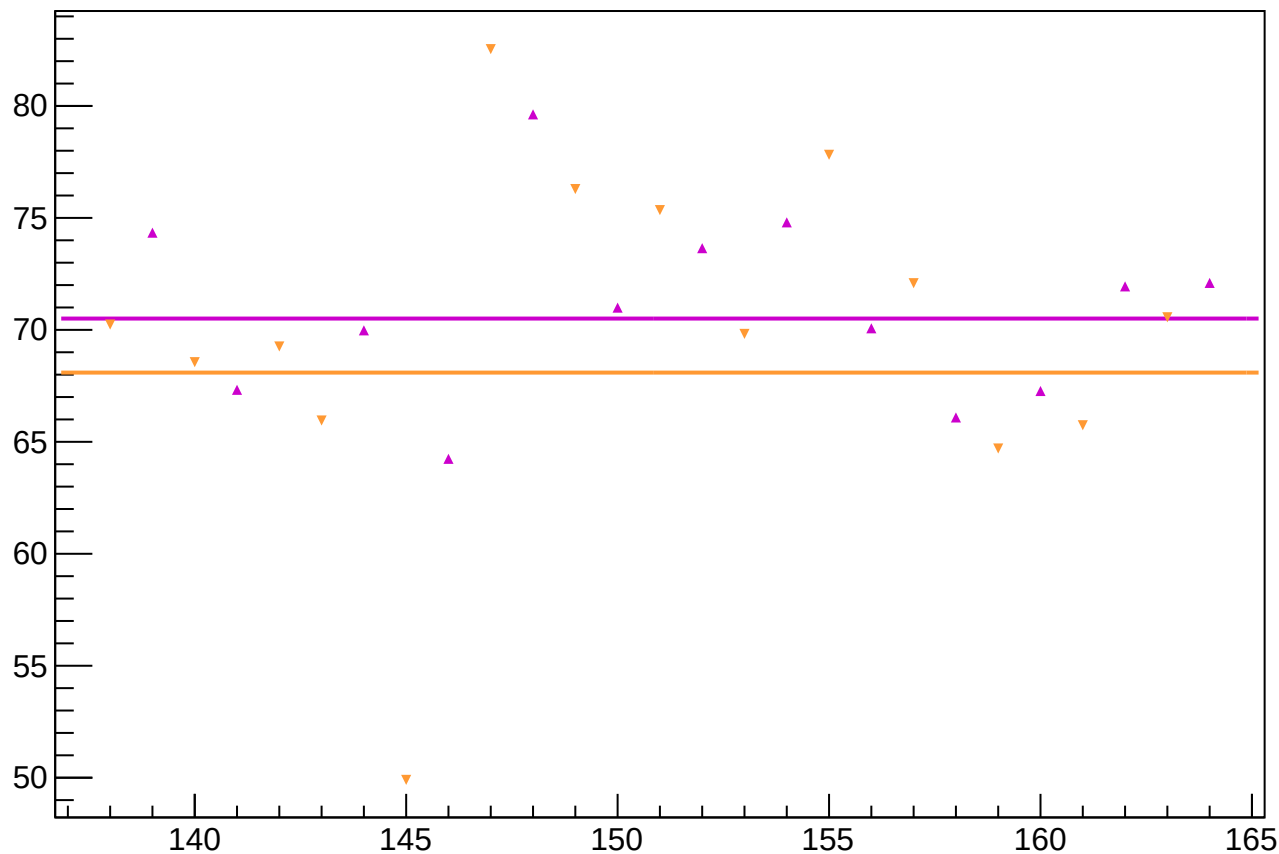
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-21.869 \pm 22.053$   $\chi^2/\text{NDF}$ : 8.7/12

Out:  $-44.195 \pm 21.139$   $\chi^2/\text{NDF}$ : 25.0/13

All:  $-33.504 \pm 15.260$   $\chi^2/\text{NDF}$ : 34.2/26

dit\_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: 68.092+/-0.015  $\chi^2/\text{NDF}$ :320896.8/13

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

Left In: 70.505+/-0.016  $\chi^2/\text{NDF}$ :64759.8/12

Left: 69.248+/-0.011  $\chi^2/\text{NDF}$ : 398134.1/26

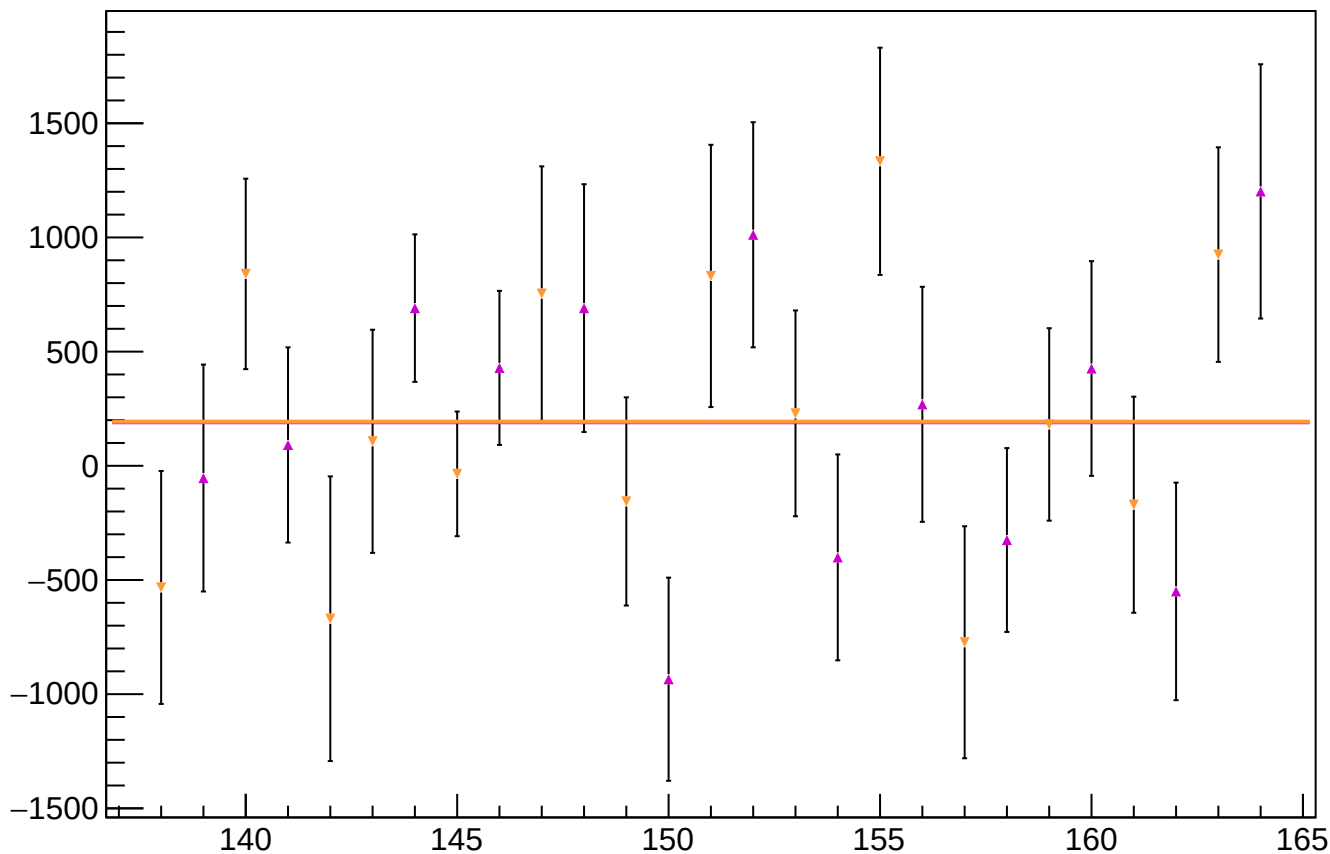
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 70.505+/-0.016  $\chi^2/\text{NDF}$ :64759.8/12

Out: 68.092+/-0.015  $\chi^2/\text{NDF}$ :320896.8/13

All: 69.248+/-0.011  $\chi^2/\text{NDF}$ : 398134.1/26

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: 193.361+/-120.991  $\chi^2/\text{NDF}$ :21.8/13

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

Left In: 190.742+/-121.732  $\chi^2/\text{NDF}$ :22.6/12

Left: 192.060+/-85.814  $\chi^2/\text{NDF}$ : 44.4/26

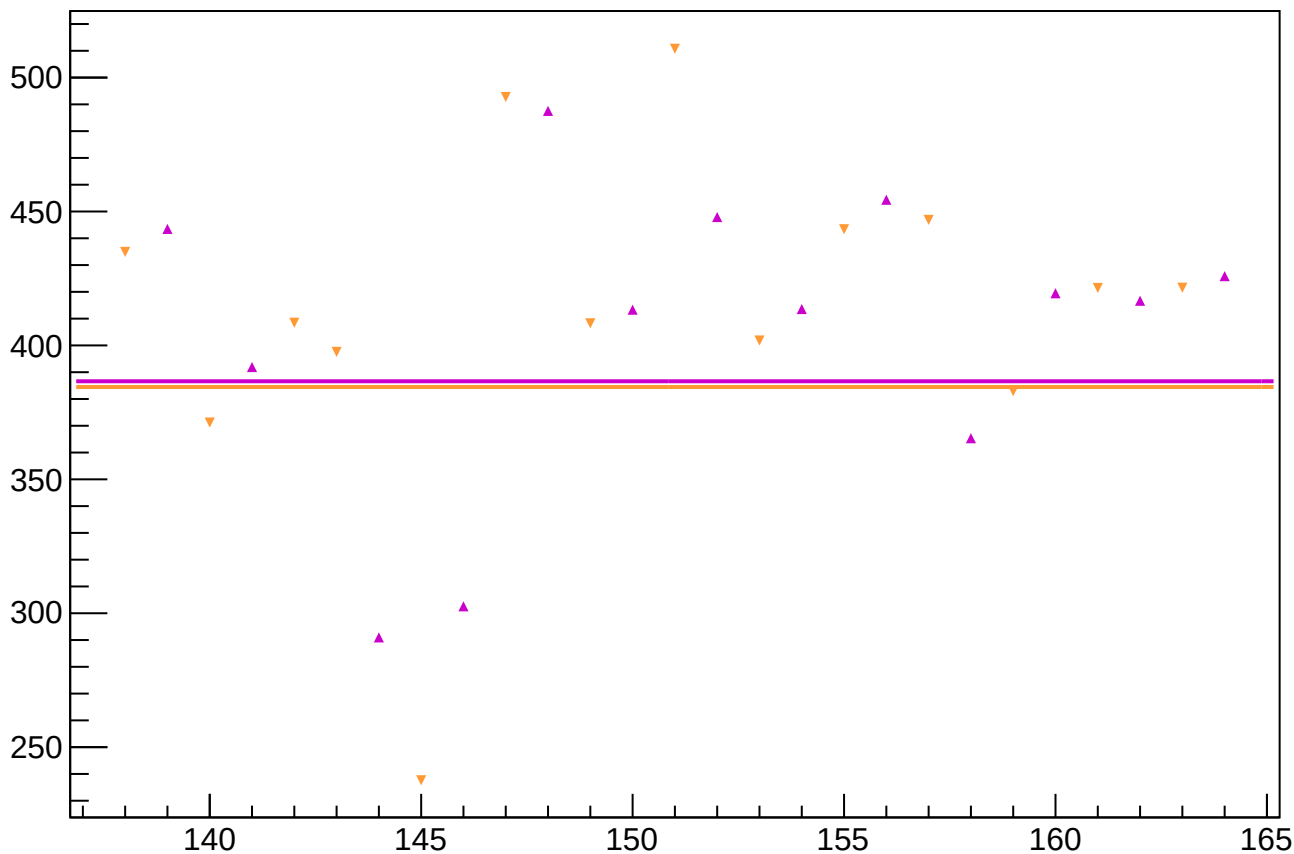
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 190.742+/-121.732  $\chi^2/\text{NDF}$ :22.6/12

Out: 193.361+/-120.991  $\chi^2/\text{NDF}$ :21.8/13

All: 192.060+/-85.814  $\chi^2/\text{NDF}$ : 44.4/26

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: 384.467+/-0.086  $\chi^2/\text{NDF}$ : 868237.4/13

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

Left In: 386.617+/-0.086  $\chi^2/\text{NDF}$ : 508369.9/12

Left: 385.536+/-0.061  $\chi^2/\text{NDF}$ : 1376921.0/26

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

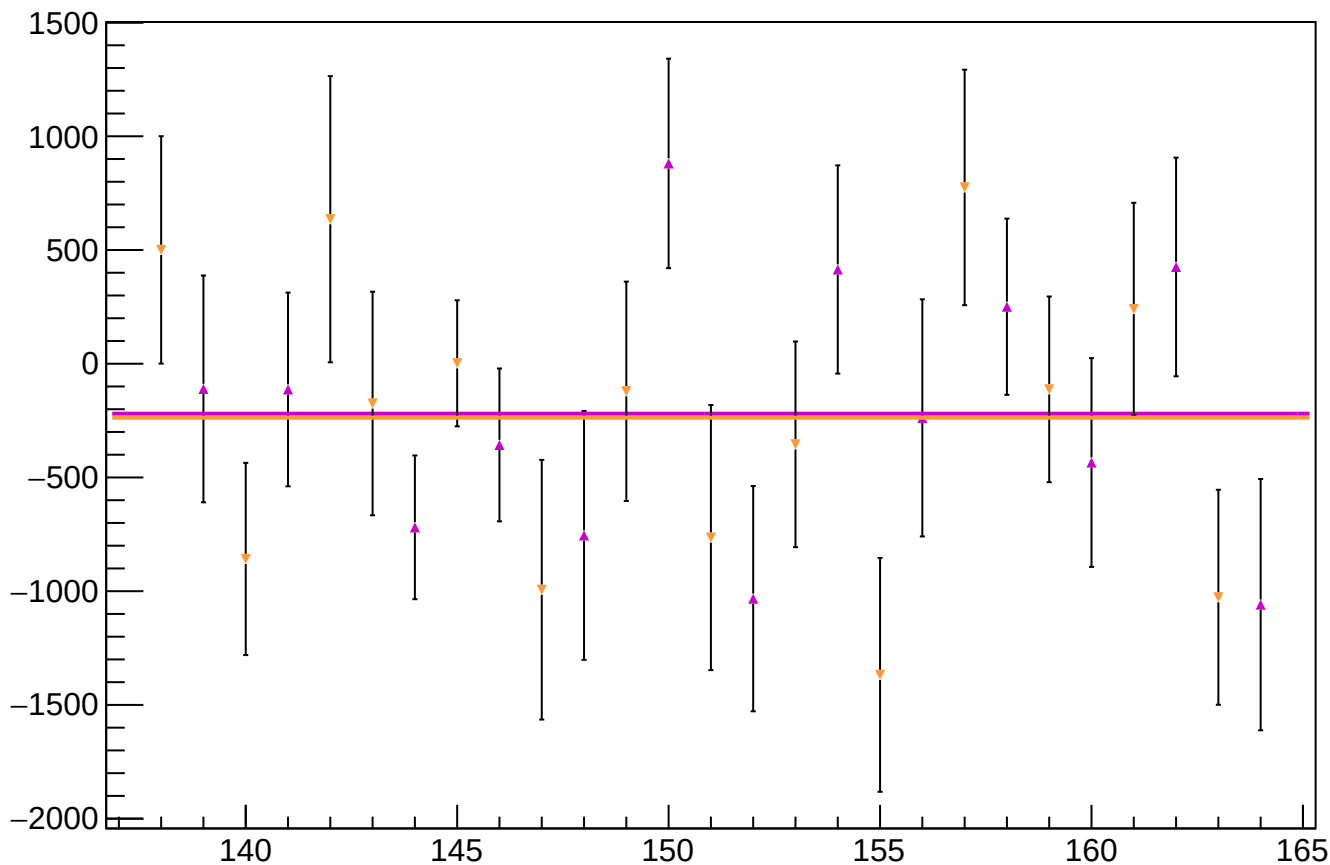
In: 386.617+/-0.086  $\chi^2/\text{NDF}$ : 508369.9/12

Out: 384.467+/-0.086  $\chi^2/\text{NDF}$ : 868237.4/13

All: 385.536+/-0.061  $\chi^2/\text{NDF}$ : 1376921.0/26



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: -237.153+/-122.091  $\chi^2/\text{NDF}$ :22.3/13

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

Left In: -219.619+/-121.244  $\chi^2/\text{NDF}$ :19.9/12

Left: -228.325+/-86.030  $\chi^2/\text{NDF}$ : 42.2/26

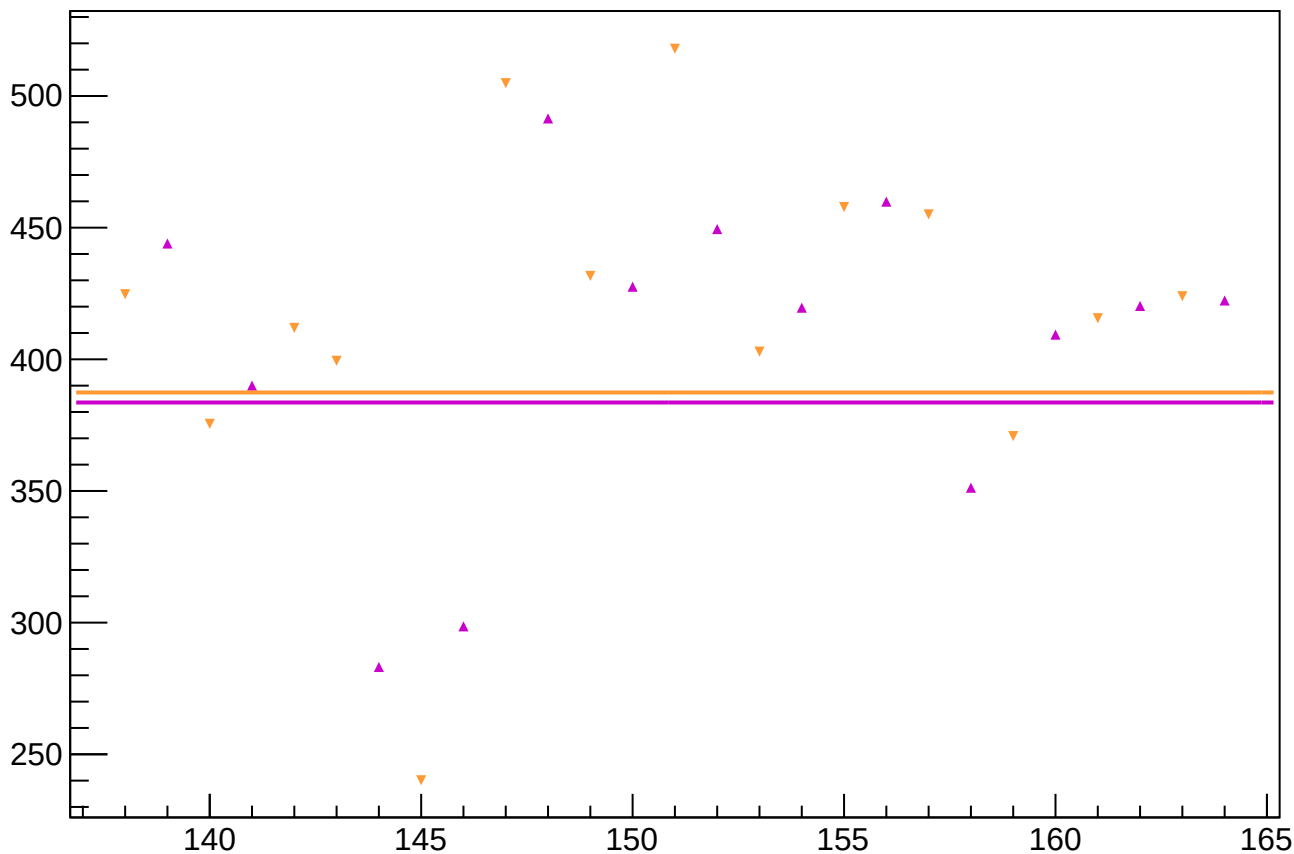
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -219.619+/-121.244  $\chi^2/\text{NDF}$ :19.9/12

Out: -237.153+/-122.091  $\chi^2/\text{NDF}$ :22.3/13

All: -228.325+/-86.030  $\chi^2/\text{NDF}$ : 42.2/26

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: 387.414+/-0.086  $\chi^2/\text{NDF}$ : 880414.1/13

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

Left In: 383.602+/-0.086  $\chi^2/\text{NDF}$ : 588310.2/12

Left: 385.494+/-0.061  $\chi^2/\text{NDF}$ : 1469705.6/26

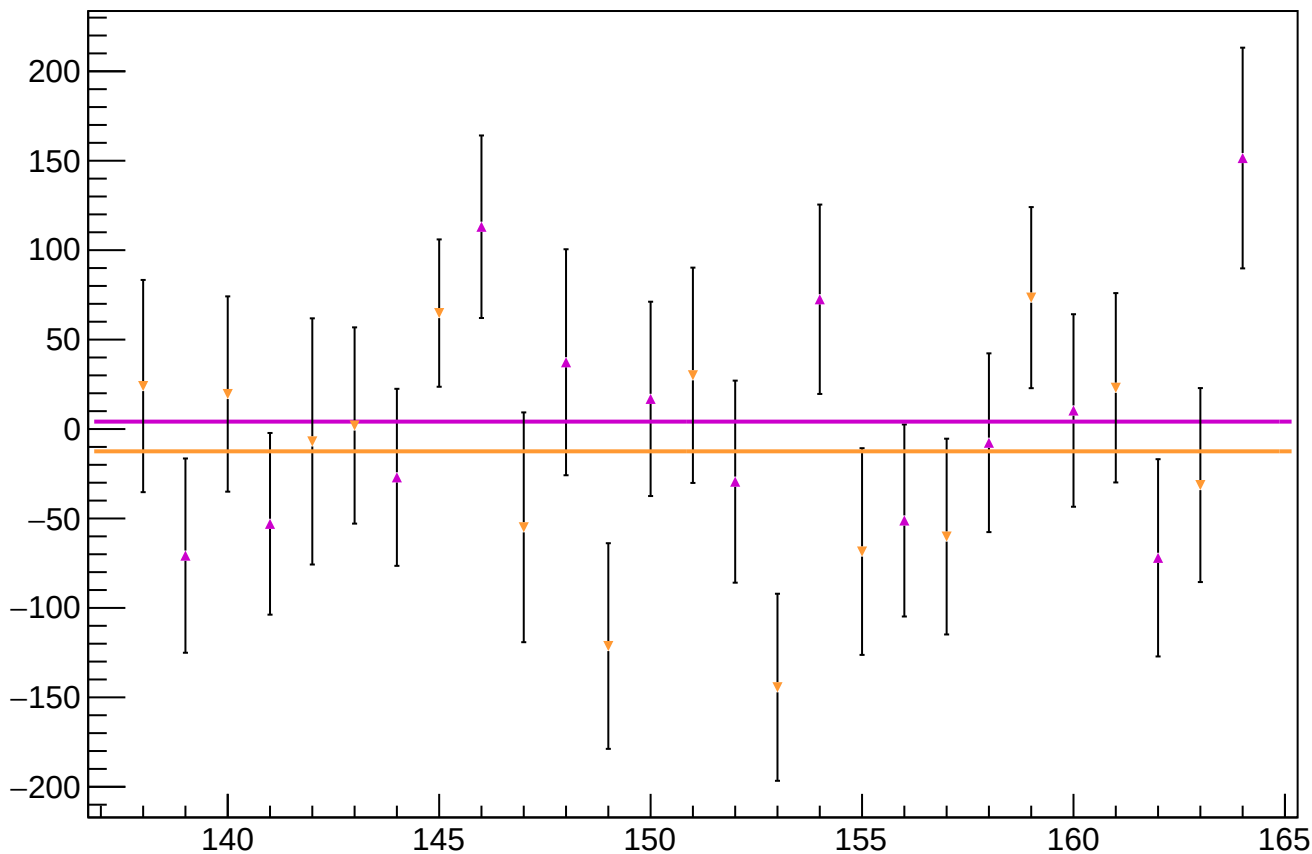
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 383.602+/-0.086  $\chi^2/\text{NDF}$ : 588310.2/12

Out: 387.414+/-0.086  $\chi^2/\text{NDF}$ : 880414.1/13

All: 385.494+/-0.061  $\chi^2/\text{NDF}$ : 1469705.6/26

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: -12.458 $\pm$ 14.648  $\chi^2$ /NDF:20.4/13

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

Left In: 4.151 $\pm$ 14.968  $\chi^2$ /NDF:19.2/12

Left: -4.333 $\pm$ 10.469  $\chi^2$ /NDF: 40.2/26

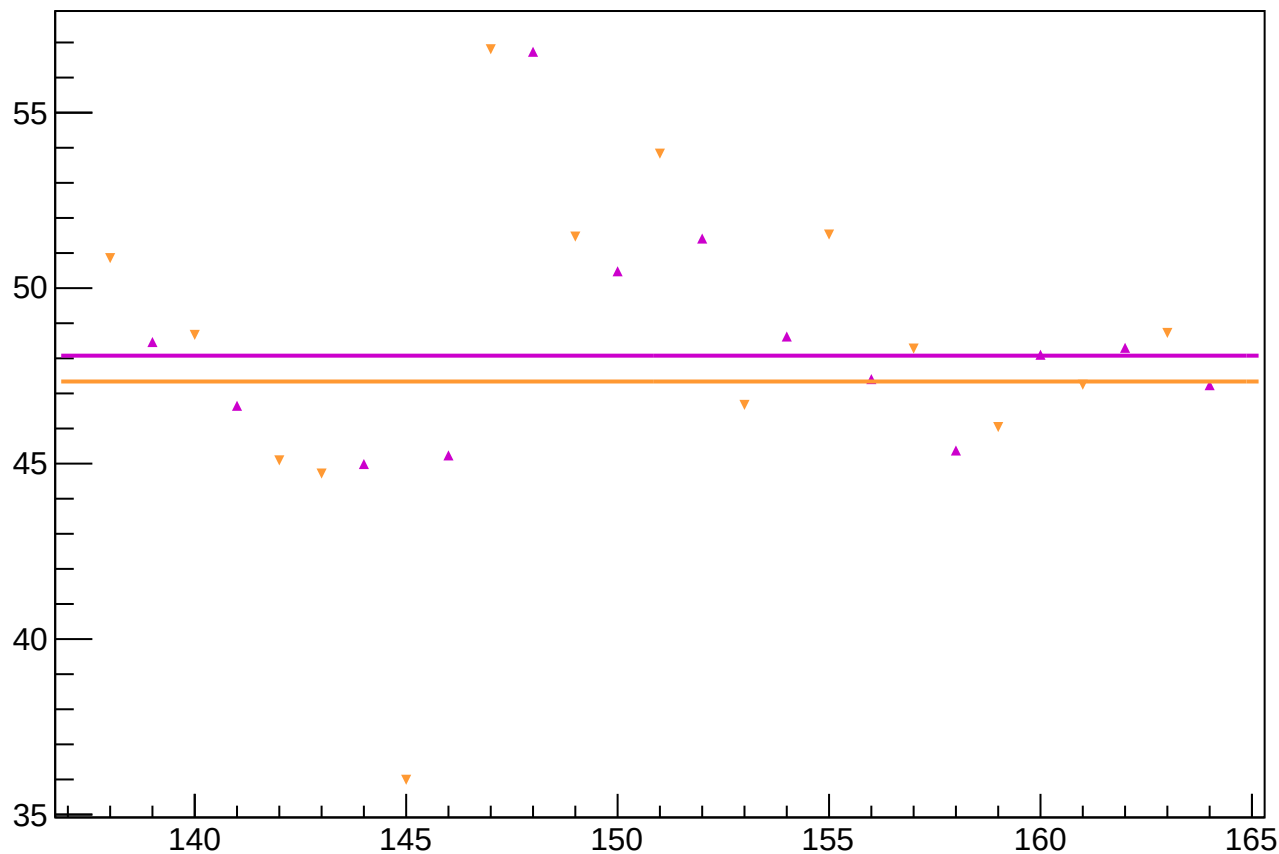
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 4.151 $\pm$ 14.968  $\chi^2$ /NDF:19.2/12

Out: -12.458 $\pm$ 14.648  $\chi^2$ /NDF:20.4/13

All: -4.333 $\pm$ 10.469  $\chi^2$ /NDF: 40.2/26

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 47.340+/-0.010  $\chi^2$ /NDF:257810.8/13

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

Left In: 48.076+/-0.011  $\chi^2$ /NDF:70934.1/12

Left: 47.700+/-0.007  $\chi^2$ /NDF: 331216.5/26

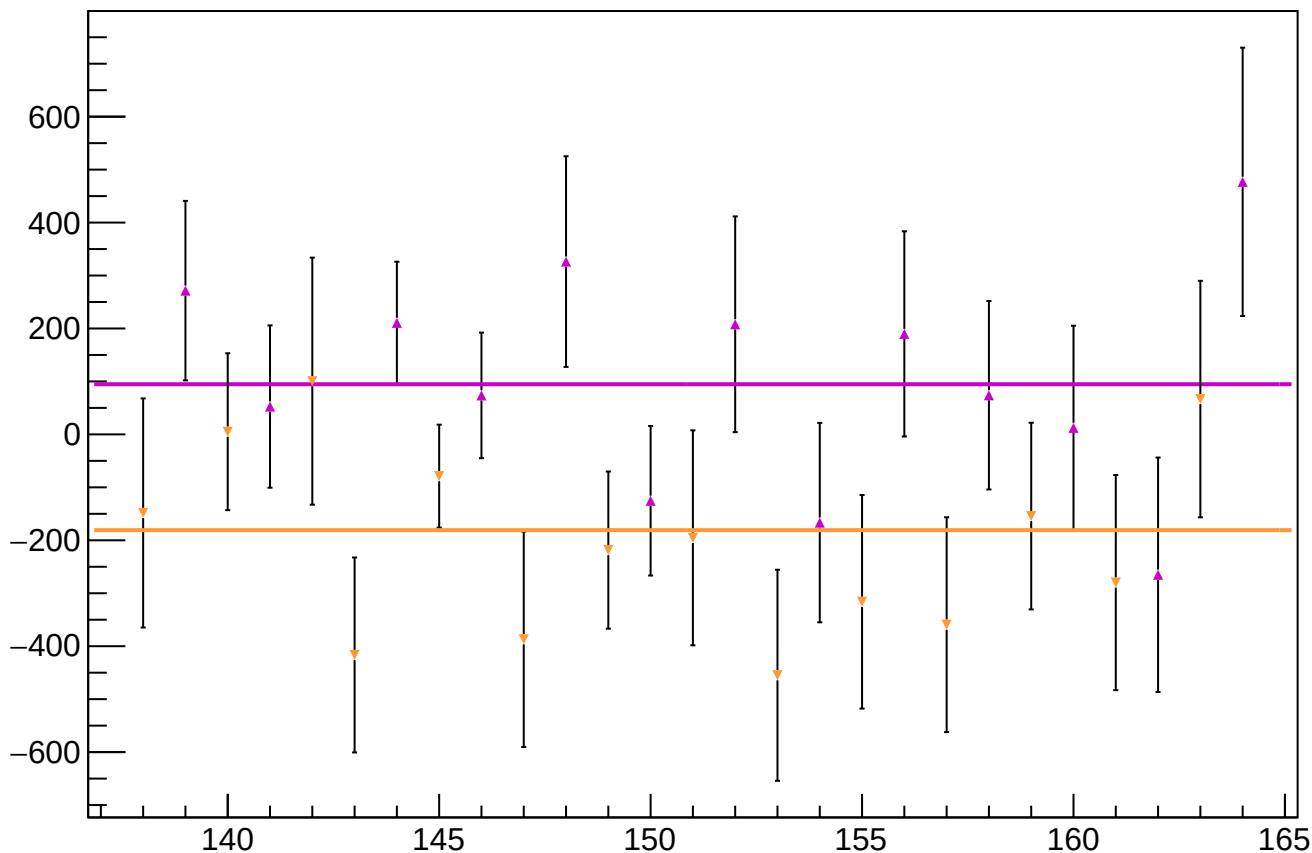
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 48.076+/-0.011  $\chi^2$ /NDF:70934.1/12

Out: 47.340+/-0.010  $\chi^2$ /NDF:257810.8/13

All: 47.700+/-0.007  $\chi^2$ /NDF: 331216.5/26

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: -180.863+/-46.369  $\chi^2/\text{NDF}$ :11.5/13

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

Left In: 94.732+/-46.009  $\chi^2/\text{NDF}$ :13.6/12

Left: -41.991+/-32.660  $\chi^2/\text{NDF}$ : 42.9/26

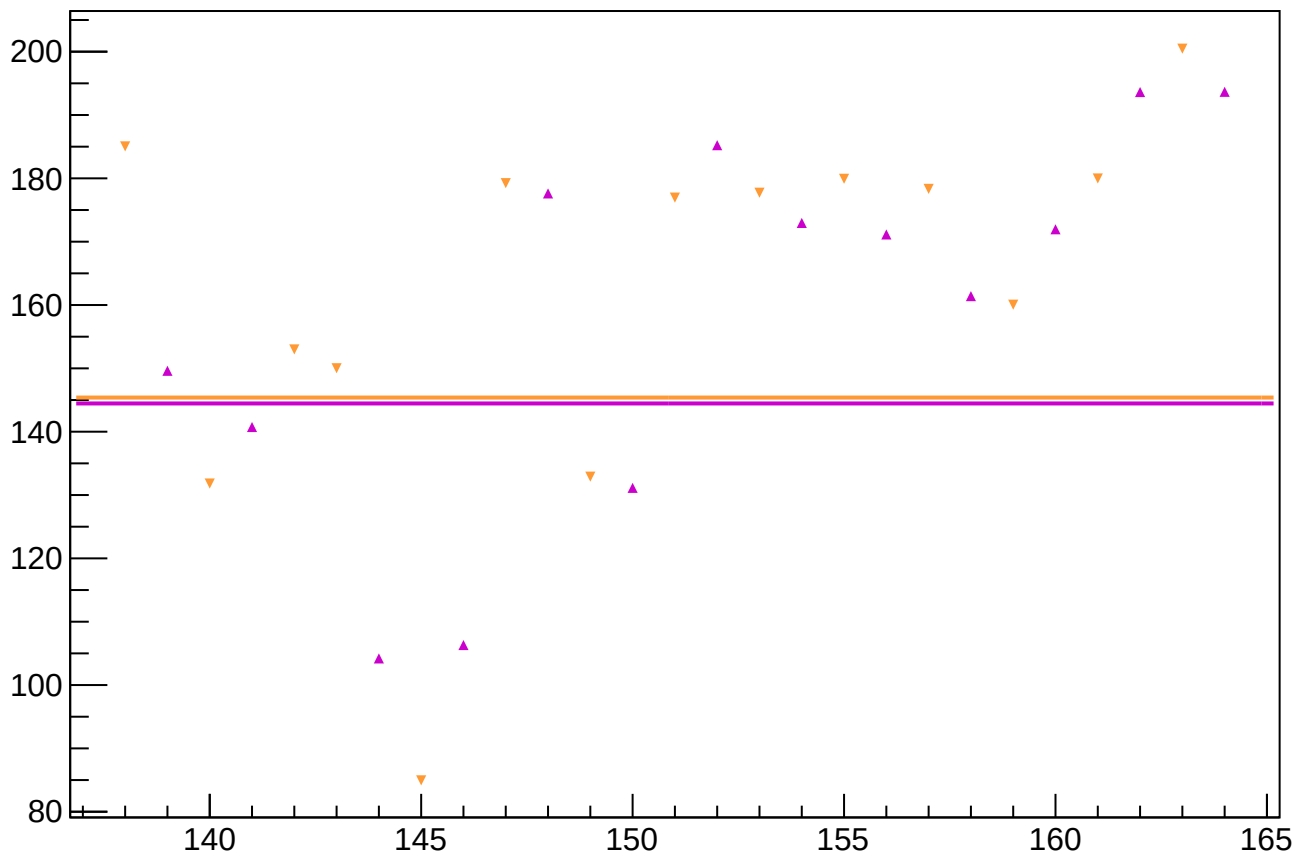
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 94.732+/-46.009  $\chi^2/\text{NDF}$ :13.6/12

Out: -180.863+/-46.369  $\chi^2/\text{NDF}$ :11.5/13

All: -41.991+/-32.660  $\chi^2/\text{NDF}$ : 42.9/26

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: 145.392+/-0.033  $\chi^2/\text{NDF}$ :1336559.9/13

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

Left In: 144.458+/-0.033  $\chi^2/\text{NDF}$ :923384.2/12

Left: 144.921+/-0.023  $\chi^2/\text{NDF}$ : 2260352.8/26

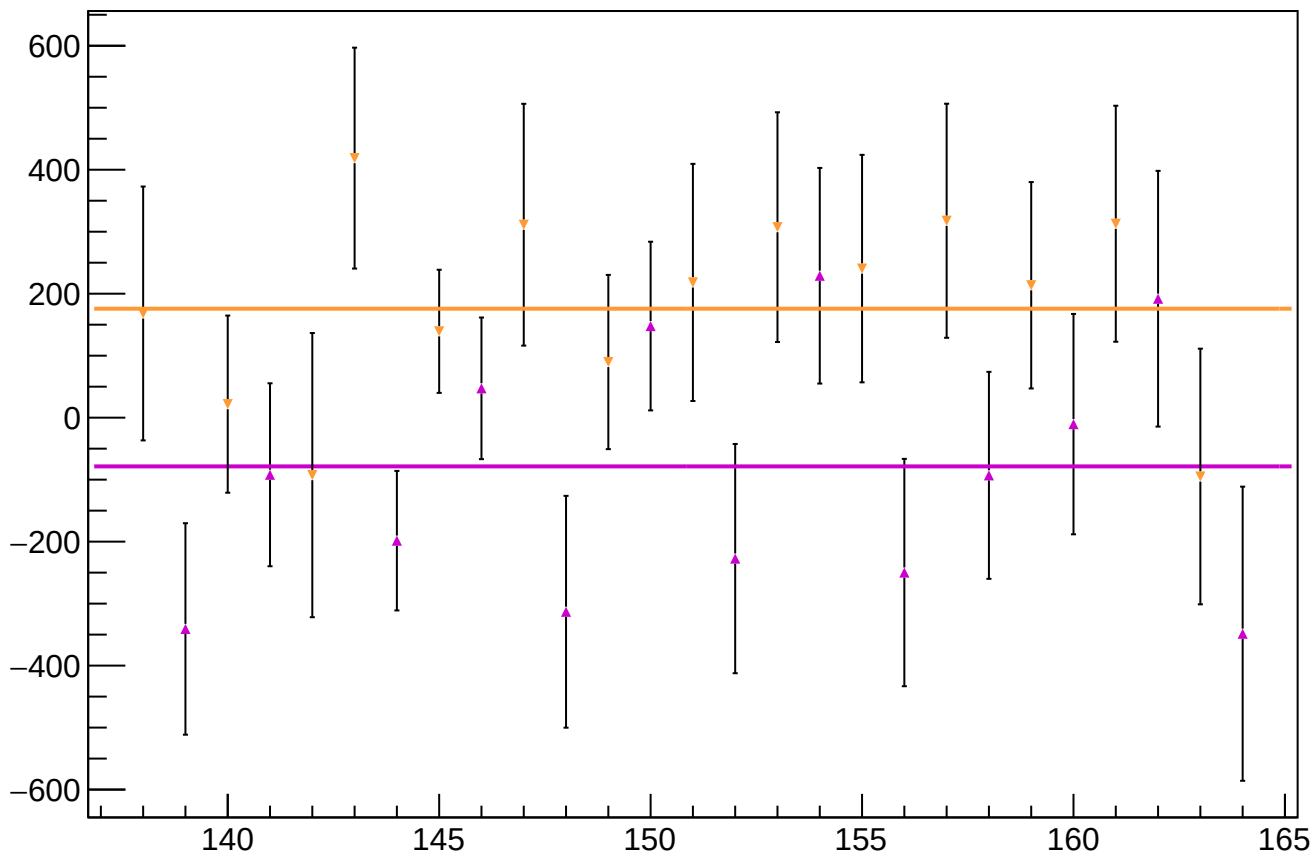
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 144.458+/-0.033  $\chi^2/\text{NDF}$ :923384.2/12

Out: 145.392+/-0.033  $\chi^2/\text{NDF}$ :1336559.9/13

All: 144.921+/-0.023  $\chi^2/\text{NDF}$ : 2260352.8/26

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 175.780+/-44.589  $\chi^2/\text{NDF}$ :8.9/13

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

Left In: -78.606+/-43.885  $\chi^2/\text{NDF}$ :16.9/12

Left: 46.565+/-31.277  $\chi^2/\text{NDF}$ : 42.3/26

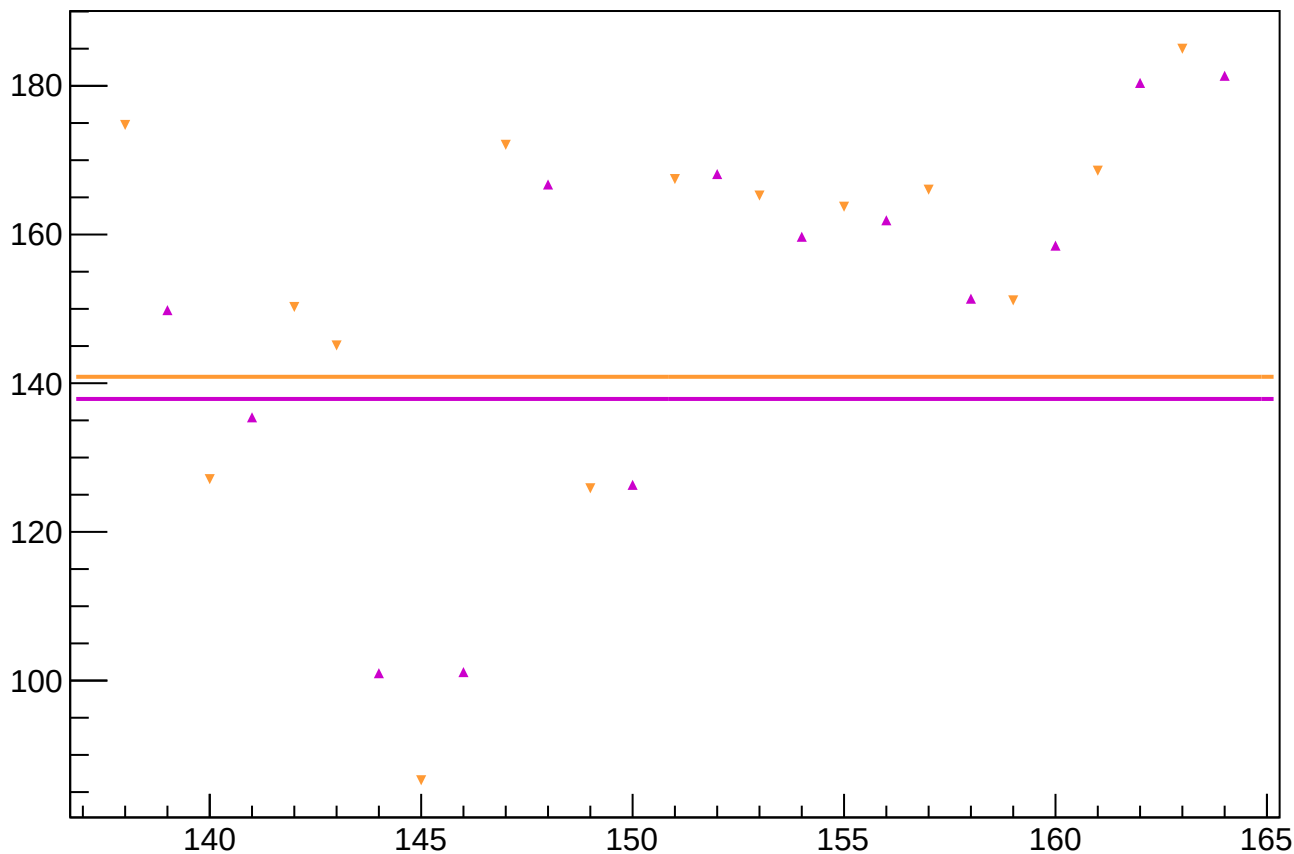
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -78.606+/-43.885  $\chi^2/\text{NDF}$ :16.9/12

Out: 175.780+/-44.589  $\chi^2/\text{NDF}$ :8.9/13

All: 46.565+/-31.277  $\chi^2/\text{NDF}$ : 42.3/26

# 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: 140.863+/-0.032  $\chi^2/\text{NDF}$ :1030462.7/13

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

Left In: 137.883+/-0.031  $\chi^2/\text{NDF}$ :805509.4/12

Left: 139.349+/-0.022  $\chi^2/\text{NDF}$ : 1840511.6/26

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

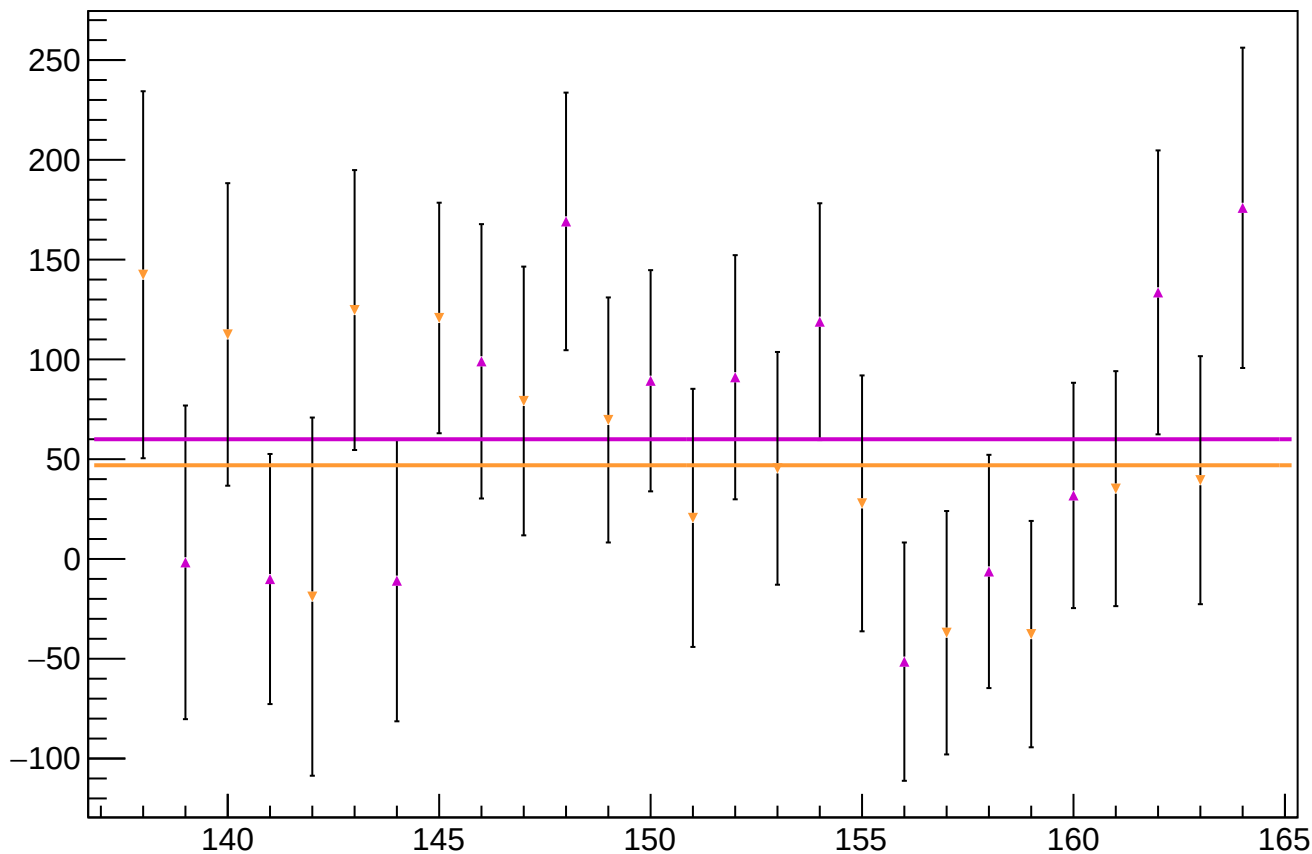
In: 137.883+/-0.031  $\chi^2/\text{NDF}$ :805509.4/12

Out: 140.863+/-0.032  $\chi^2/\text{NDF}$ :1030462.7/13

All: 139.349+/-0.022  $\chi^2/\text{NDF}$ : 1840511.6/26



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: 46.952 $\pm$ 17.384  $\chi^2$ /NDF:10.0/13

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

Left In: 59.990 $\pm$ 17.715  $\chi^2$ /NDF:15.8/12

Left: 53.348 $\pm$ 12.408  $\chi^2$ /NDF: 26.1/26

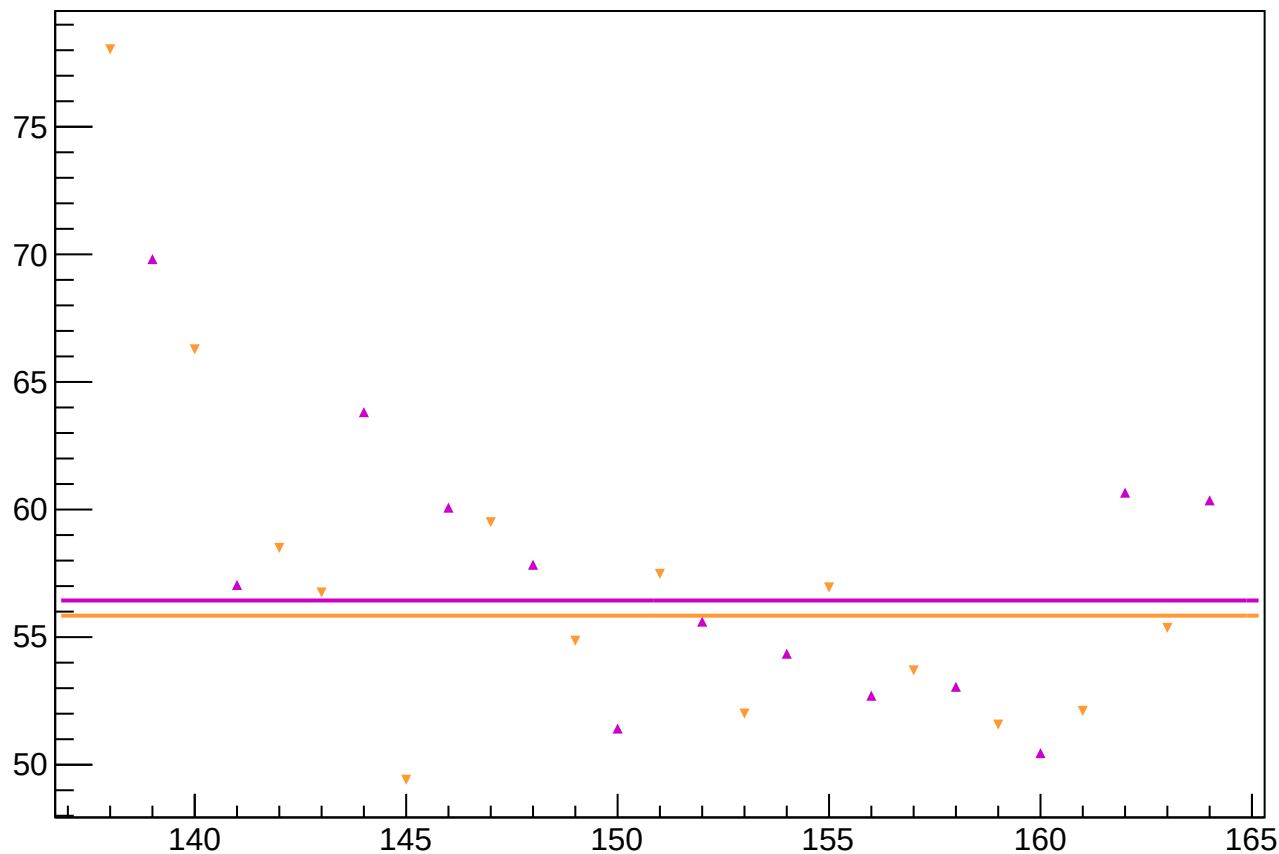
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 59.990 $\pm$ 17.715  $\chi^2$ /NDF:15.8/12

Out: 46.952 $\pm$ 17.384  $\chi^2$ /NDF:10.0/13

All: 53.348 $\pm$ 12.408  $\chi^2$ /NDF: 26.1/26

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: 55.842+/-0.012  $\chi^2/\text{NDF}$ :220223.8/13

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

Left In: 56.436+/-0.013  $\chi^2/\text{NDF}$ :154667.3/12

Left: 56.134+/-0.009  $\chi^2/\text{NDF}$ : 376036.2/26

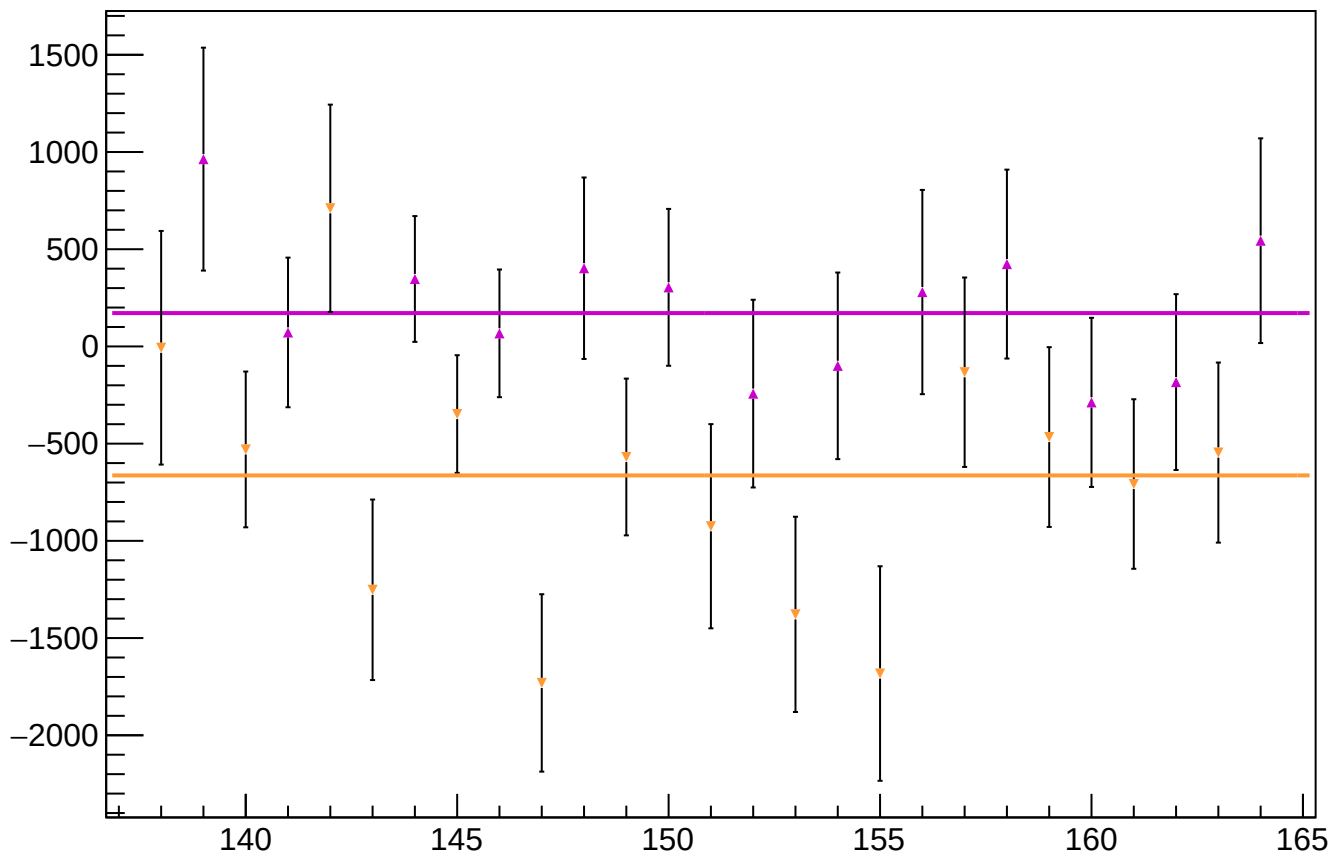
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 56.436+/-0.013  $\chi^2/\text{NDF}$ :154667.3/12

Out: 55.842+/-0.012  $\chi^2/\text{NDF}$ :220223.8/13

All: 56.134+/-0.009  $\chi^2/\text{NDF}$ : 376036.2/26

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -663.365 $\pm$ 120.623  $\chi^2$ /NDF:23.3/13

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

Left In: 171.586 $\pm$ 119.834  $\chi^2$ /NDF:6.3/12

Left: -243.151 $\pm$ 85.013  $\chi^2$ /NDF: 53.7/26

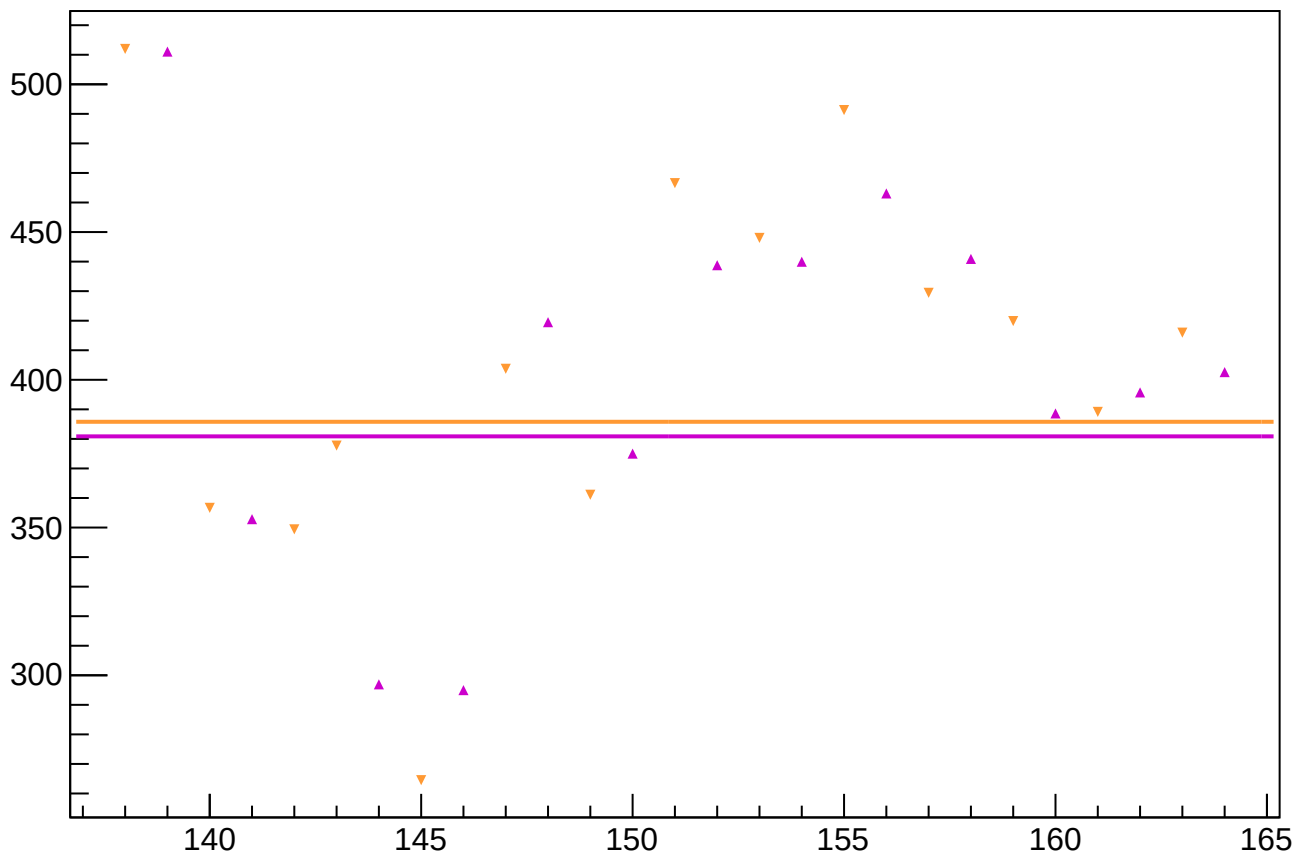
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 171.586 $\pm$ 119.834  $\chi^2$ /NDF:6.3/12

Out: -663.365 $\pm$ 120.623  $\chi^2$ /NDF:23.3/13

All: -243.151 $\pm$ 85.013  $\chi^2$ /NDF: 53.7/26

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: 385.793+/-0.085  $\chi^2/\text{NDF}$ :627240.0/13

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

Left In: 380.857+/-0.085  $\chi^2/\text{NDF}$ :544175.7/12

Left: 383.308+/-0.060  $\chi^2/\text{NDF}$ : 1173101.2/26

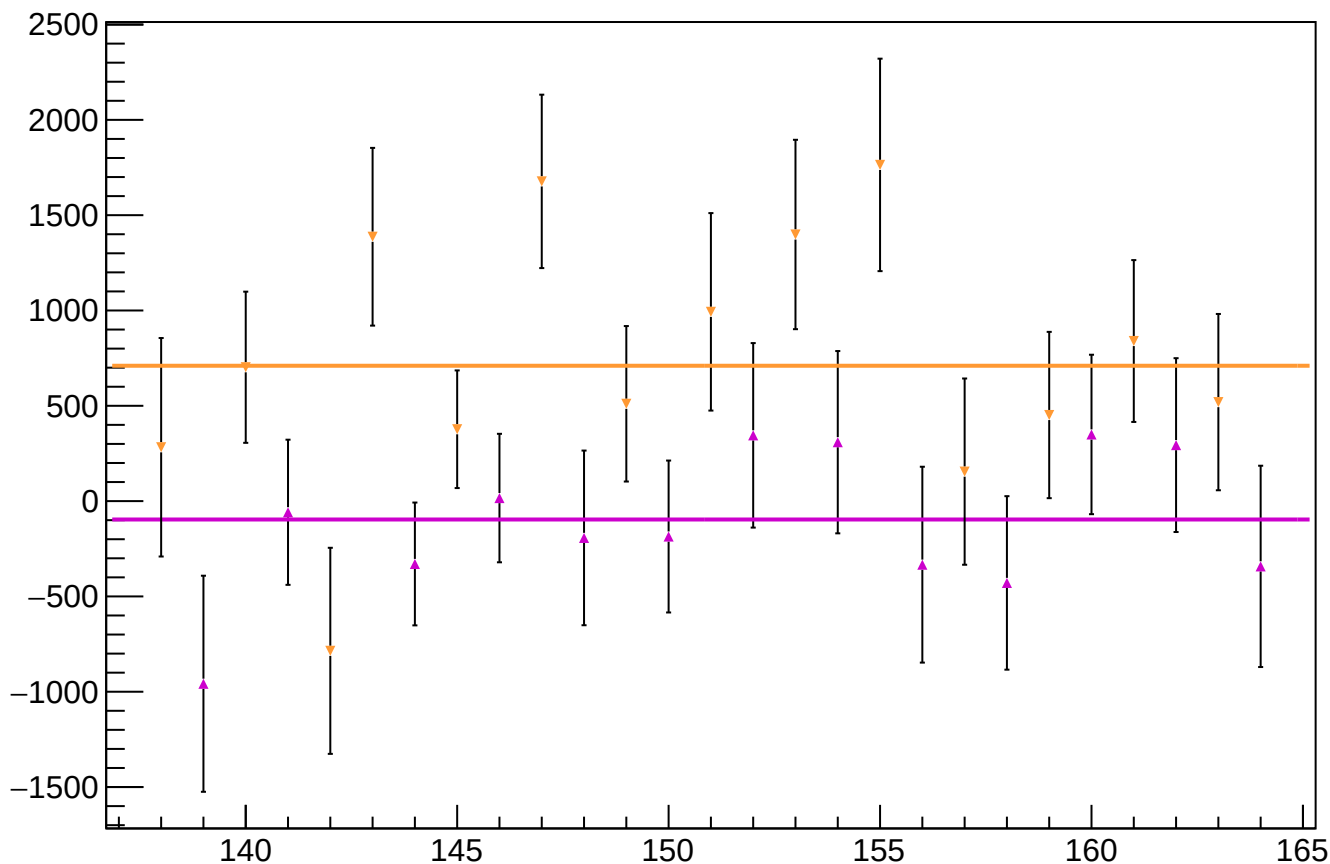
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 380.857+/-0.085  $\chi^2/\text{NDF}$ :544175.7/12

Out: 385.793+/-0.085  $\chi^2/\text{NDF}$ :627240.0/13

All: 383.308+/-0.060  $\chi^2/\text{NDF}$ : 1173101.2/26

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 710.097+/-119.999  $\chi^2/\text{NDF}$ :23.9/13

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

Left In: -96.465+/-118.773  $\chi^2/\text{NDF}$ :7.4/12

Left: 302.676+/-84.415  $\chi^2/\text{NDF}$ : 54.2/26

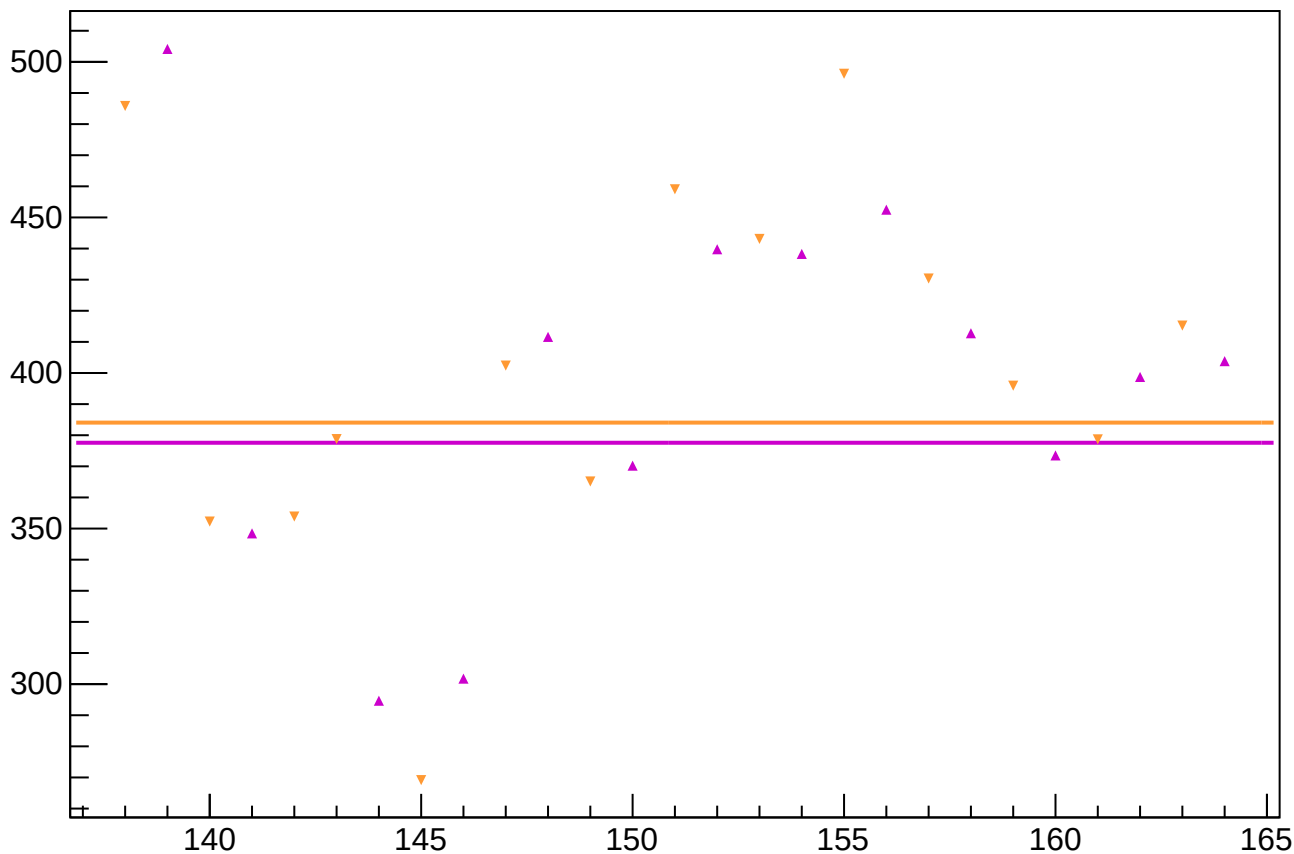
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -96.465+/-118.773  $\chi^2/\text{NDF}$ :7.4/12

Out: 710.097+/-119.999  $\chi^2/\text{NDF}$ :23.9/13

All: 302.676+/-84.415  $\chi^2/\text{NDF}$ : 54.2/26

# asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 384.058+/-0.085  $\chi^2/\text{NDF}$ :547335.7/13

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

Left In: 377.580+/-0.084  $\chi^2/\text{NDF}$ :486063.2/12

Left: 380.785+/-0.060  $\chi^2/\text{NDF}$ : 1036343.2/26

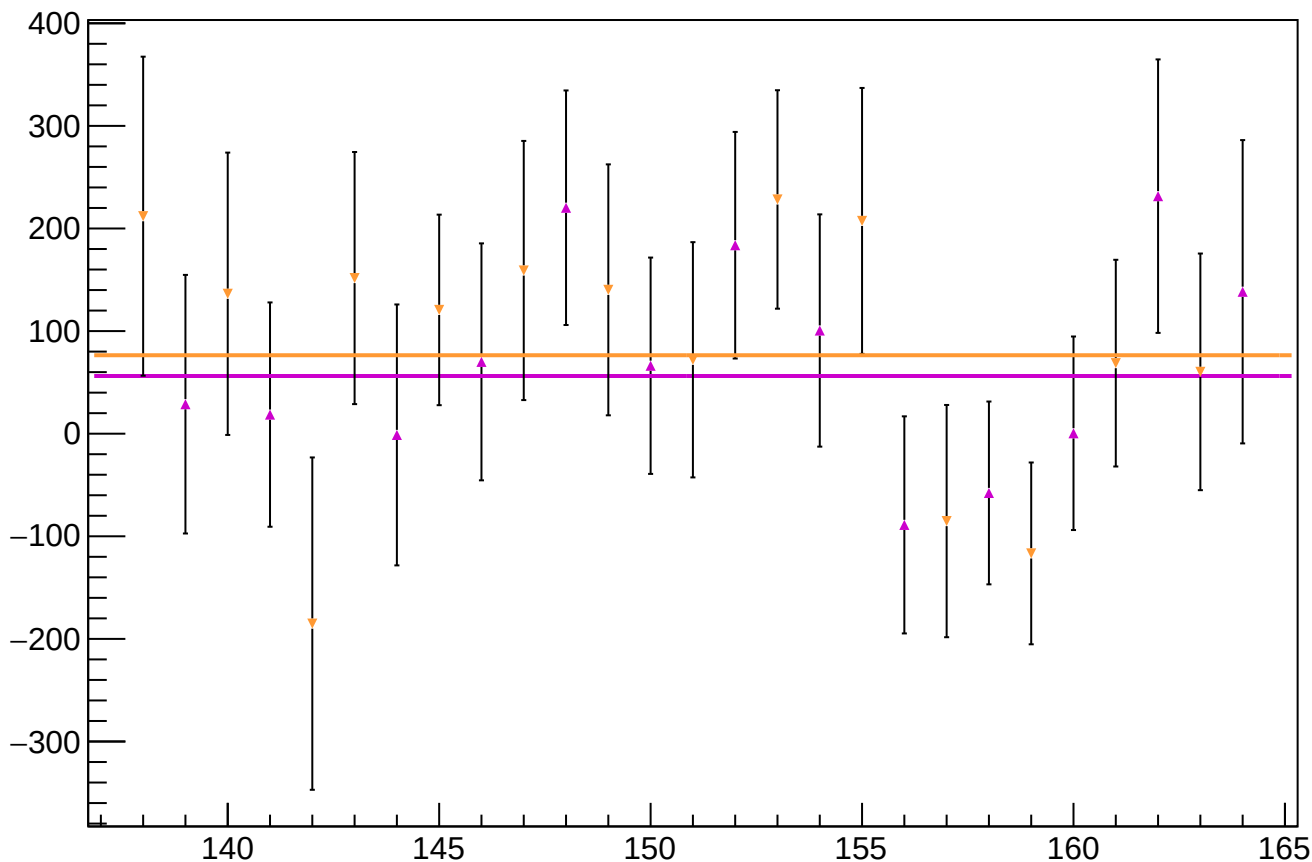
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 377.580+/-0.084  $\chi^2/\text{NDF}$ :486063.2/12

Out: 384.058+/-0.085  $\chi^2/\text{NDF}$ :547335.7/13

All: 380.785+/-0.060  $\chi^2/\text{NDF}$ : 1036343.2/26

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: 76.461 $\pm$ 30.902  $\chi^2$ /NDF:14.7/13

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

Left In: 56.231 $\pm$ 31.010  $\chi^2$ /NDF:9.8/12

Left: 66.381 $\pm$ 21.889  $\chi^2$ /NDF: 24.8/26

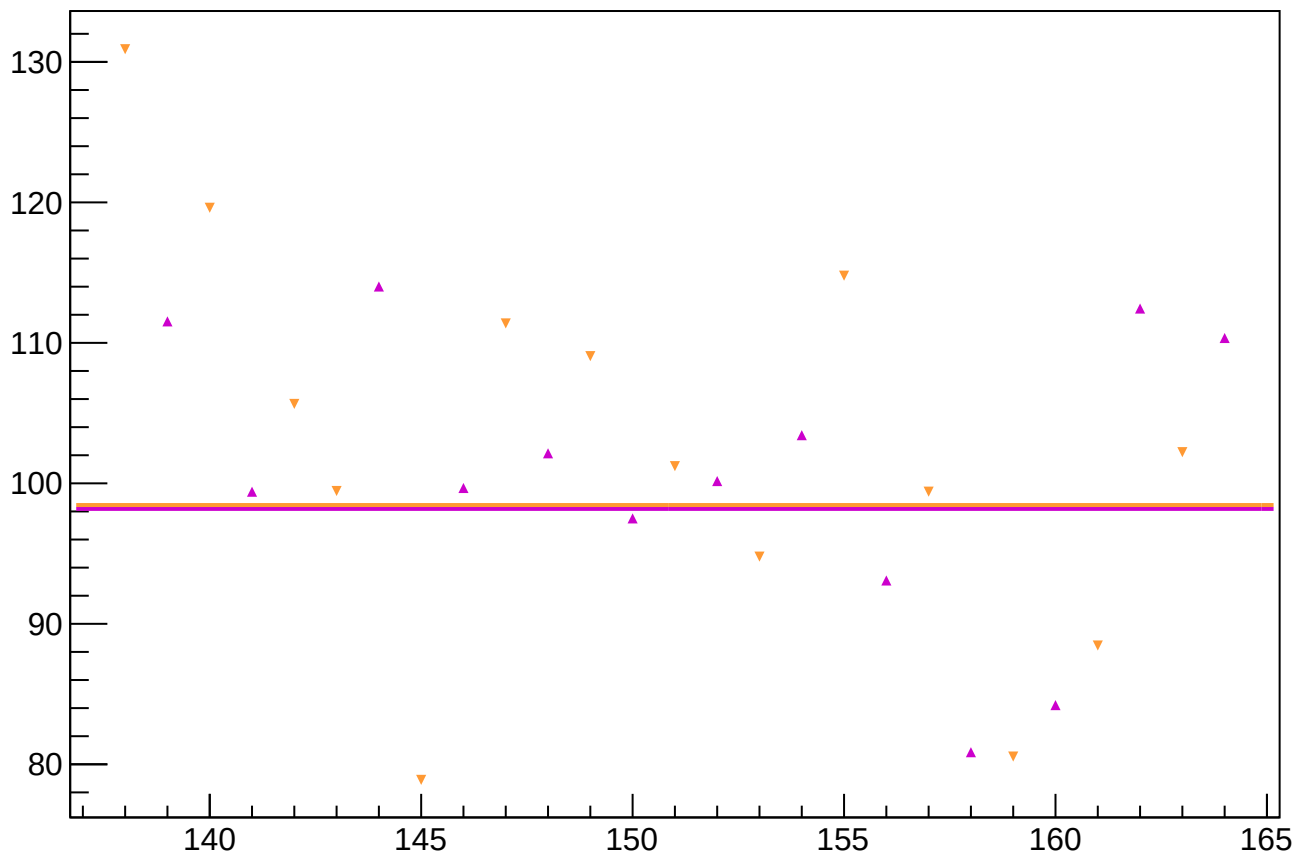
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 56.231 $\pm$ 31.010  $\chi^2$ /NDF:9.8/12

Out: 76.461 $\pm$ 30.902  $\chi^2$ /NDF:14.7/13

All: 66.381 $\pm$ 21.889  $\chi^2$ /NDF: 24.8/26

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: 98.456+/-0.022  $\chi^2/\text{NDF}$ :402217.3/13

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

Left In: 98.182+/-0.022  $\chi^2/\text{NDF}$ :221995.4/12

Left: 98.319+/-0.015  $\chi^2/\text{NDF}$ : 624291.3/26

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

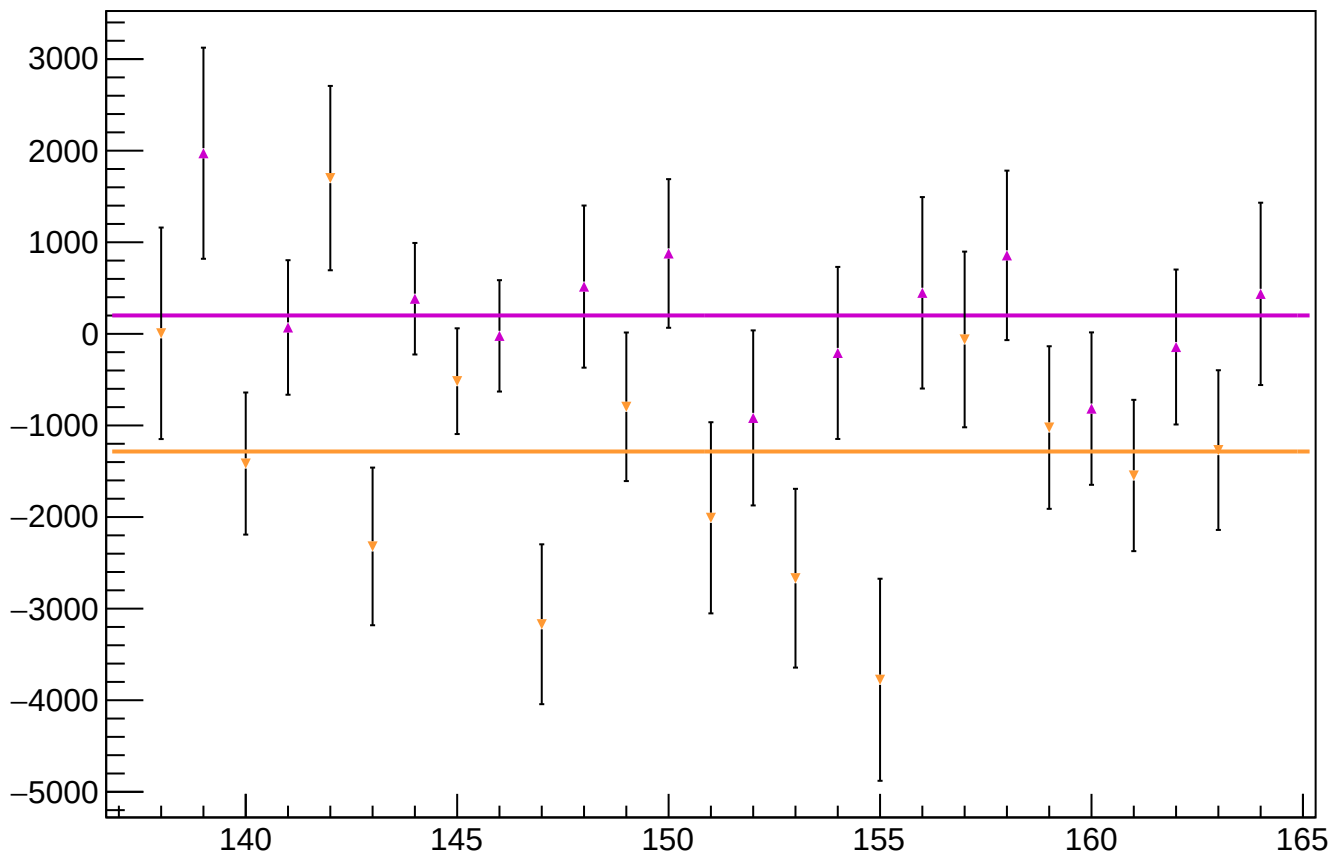
In: 98.182+/-0.022  $\chi^2/\text{NDF}$ :221995.4/12

Out: 98.456+/-0.022  $\chi^2/\text{NDF}$ :402217.3/13

All: 98.319+/-0.015  $\chi^2/\text{NDF}$ : 624291.3/26



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: -1284.378+/-232.421  $\chi^2/\text{NDF}$ : 27.7/13

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

Left In: 201.027+/-229.619  $\chi^2/\text{NDF}$ : 7.3/12

Left: -532.667+/-163.347  $\chi^2/\text{NDF}$ : 55.7/26

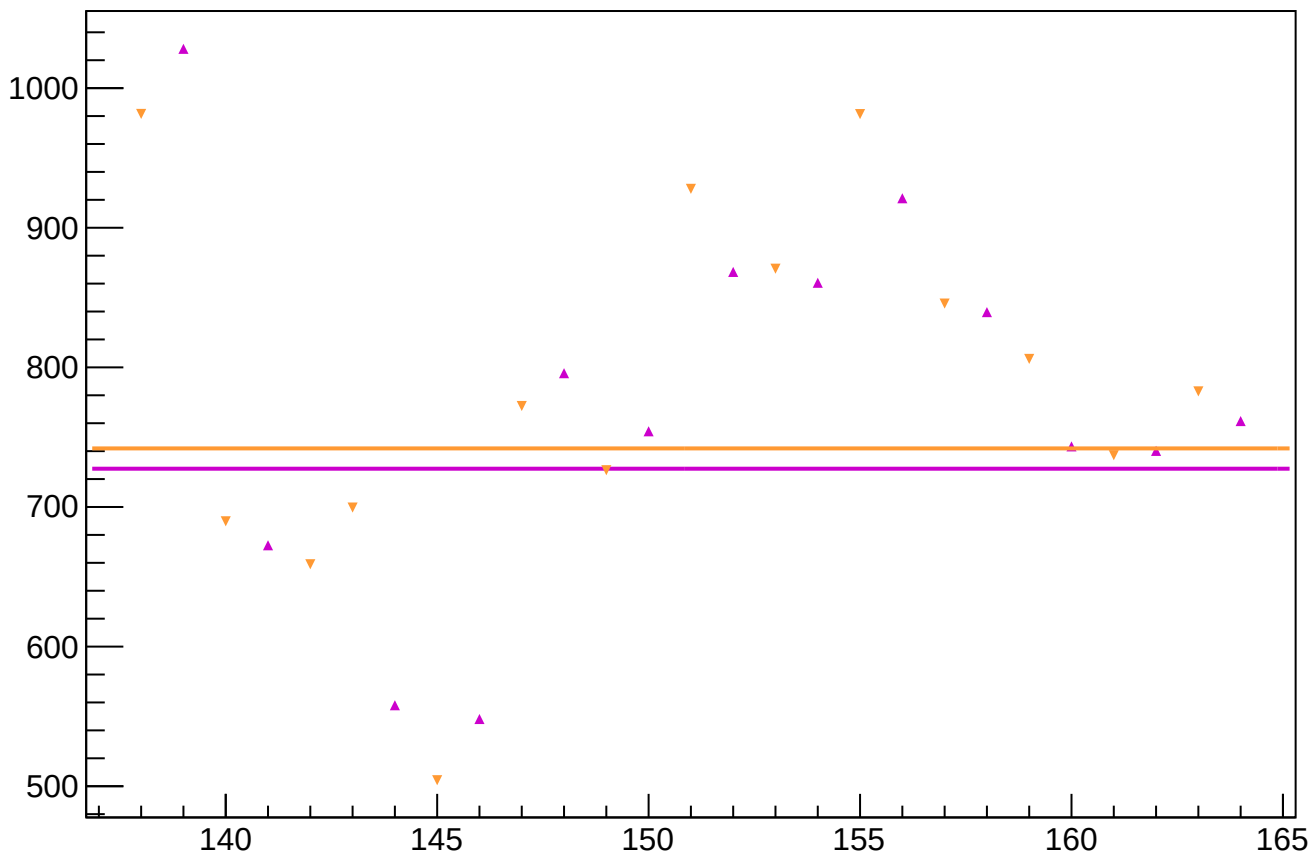
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 201.027+/-229.619  $\chi^2/\text{NDF}$ : 7.3/12

Out: -1284.378+/-232.421  $\chi^2/\text{NDF}$ : 27.7/13

All: -532.667+/-163.347  $\chi^2/\text{NDF}$ : 55.7/26

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: 741.955+/-0.164  $\chi^2/\text{NDF}$ : 686620.1/13

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

Left In: 727.419+/-0.162  $\chi^2/\text{NDF}$ : 675520.0/12

Left: 734.599+/-0.116  $\chi^2/\text{NDF}$ : 1366099.3/26

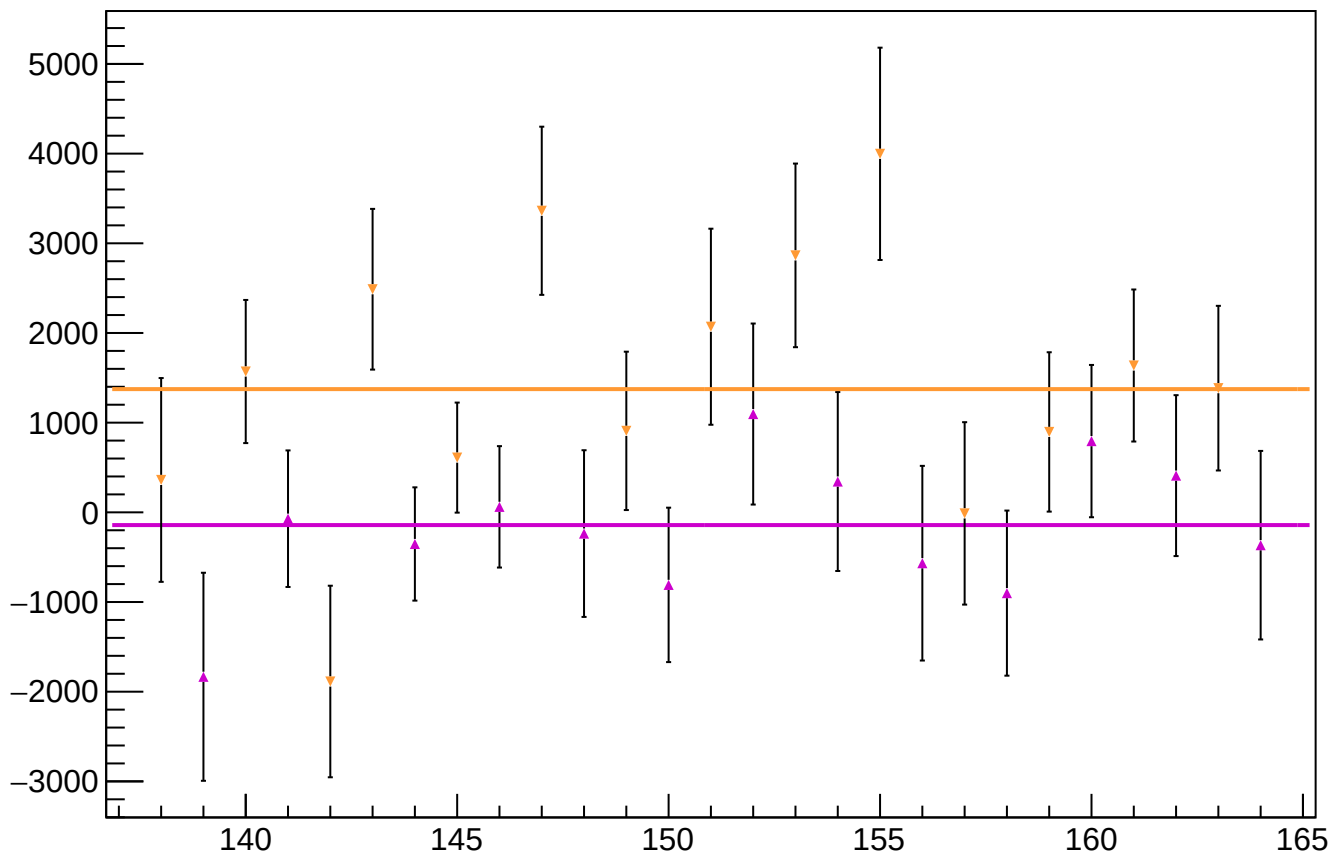
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 727.419+/-0.162  $\chi^2/\text{NDF}$ : 675520.0/12

Out: 741.955+/-0.164  $\chi^2/\text{NDF}$ : 686620.1/13

All: 734.599+/-0.116  $\chi^2/\text{NDF}$ : 1366099.3/26

# asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1374.012 $\pm$ 243.544  $\chi^2$ /NDF:27.7/13

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

Left In: -142.105 $\pm$ 241.022  $\chi^2$ /NDF:7.2/12

Left: 608.065 $\pm$ 171.313  $\chi^2$ /NDF: 54.5/26

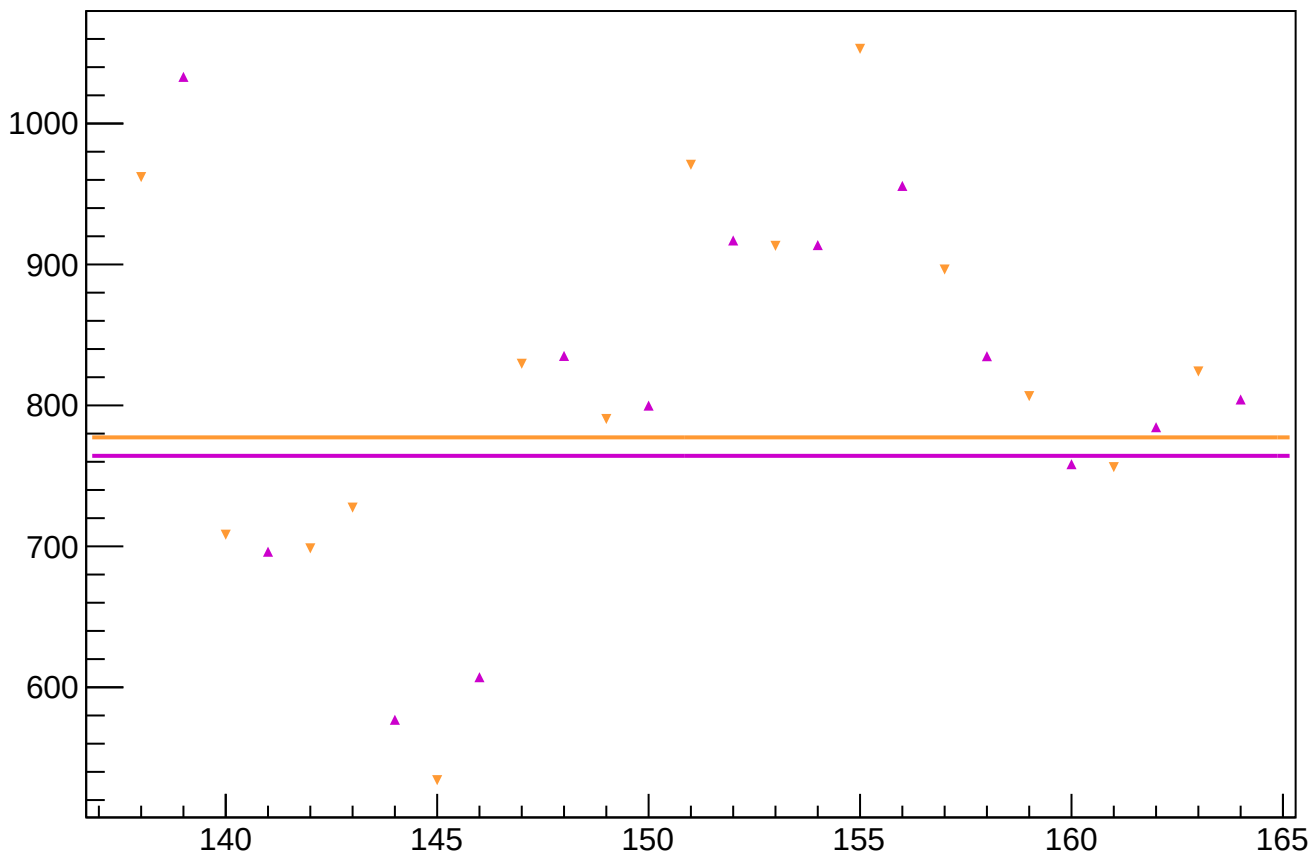
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -142.105 $\pm$ 241.022  $\chi^2$ /NDF:7.2/12

Out: 1374.012 $\pm$ 243.544  $\chi^2$ /NDF:27.7/13

All: 608.065 $\pm$ 171.313  $\chi^2$ /NDF: 54.5/26

asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 777.323+/-0.172  $\chi^2/\text{NDF}$ : 648084.0/13

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

Left In: 764.223+/-0.170  $\chi^2/\text{NDF}$ : 590849.6/12

Left: 770.705+/-0.121  $\chi^2/\text{NDF}$ : 1241856.9/26

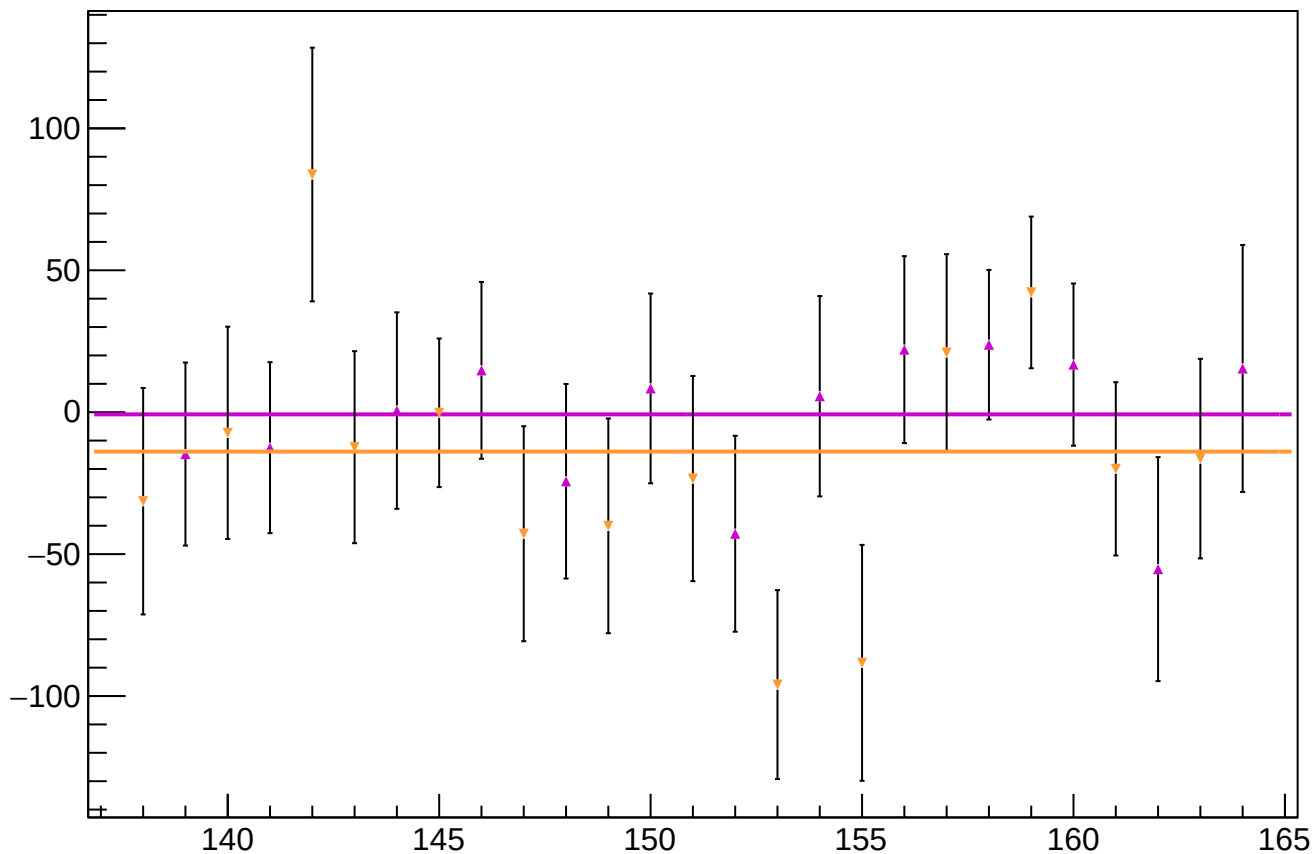
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 764.223+/-0.170  $\chi^2/\text{NDF}$ : 590849.6/12

Out: 777.323+/-0.172  $\chi^2/\text{NDF}$ : 648084.0/13

All: 770.705+/-0.121  $\chi^2/\text{NDF}$ : 1241856.9/26

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: -13.873+/-9.154  $\chi^2/\text{NDF}$ :21.2/13

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

Left In: -0.758+/-9.100  $\chi^2/\text{NDF}$ :6.4/12

Left: -7.277+/-6.454  $\chi^2/\text{NDF}$ : 28.6/26

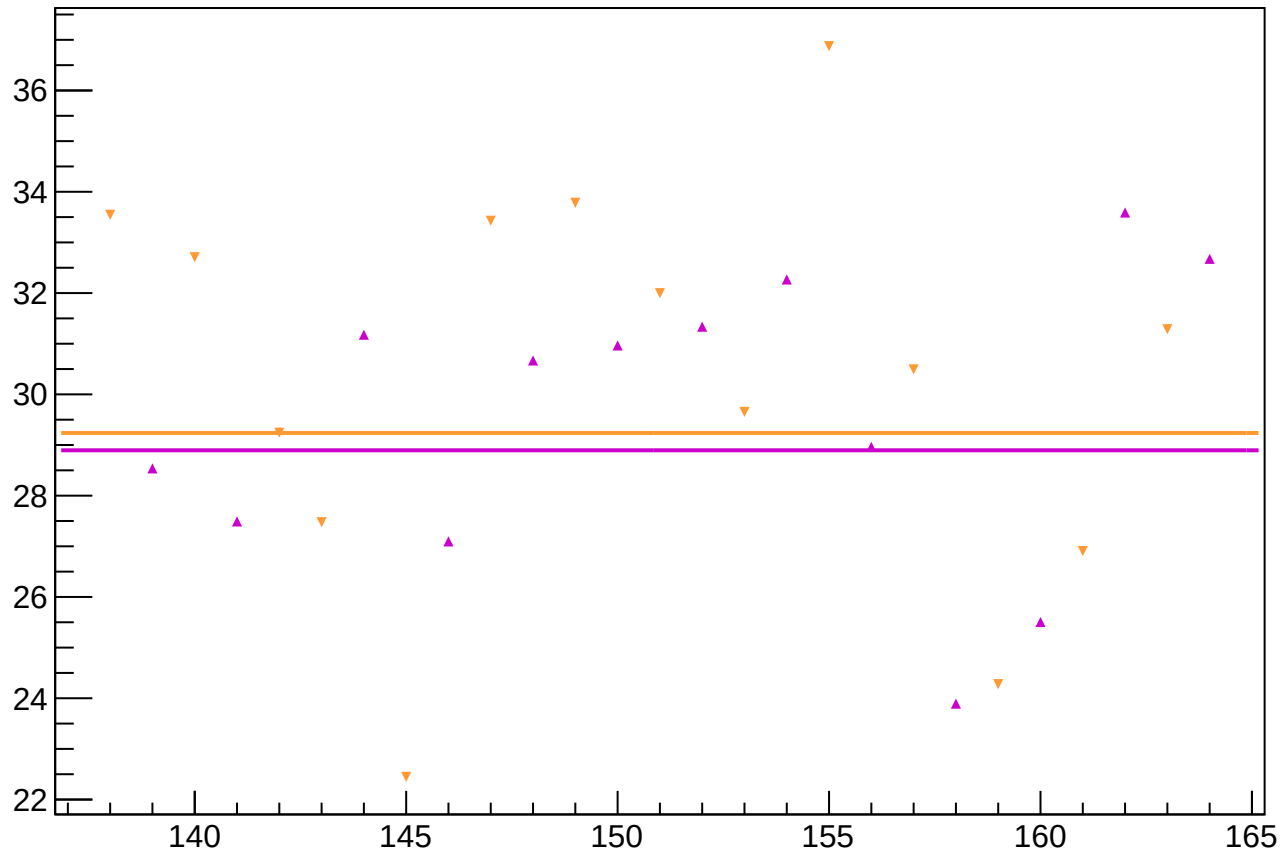
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.758+/-9.100  $\chi^2/\text{NDF}$ :6.4/12

Out: -13.873+/-9.154  $\chi^2/\text{NDF}$ :21.2/13

All: -7.277+/-6.454  $\chi^2/\text{NDF}$ : 28.6/26

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 29.238 $\pm$ 0.006  $\chi^2/\text{NDF}$ :403407.5/13

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

Left In: 28.896 $\pm$ 0.006  $\chi^2/\text{NDF}$ :204878.1/12

Left: 29.066 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 609692.2/26

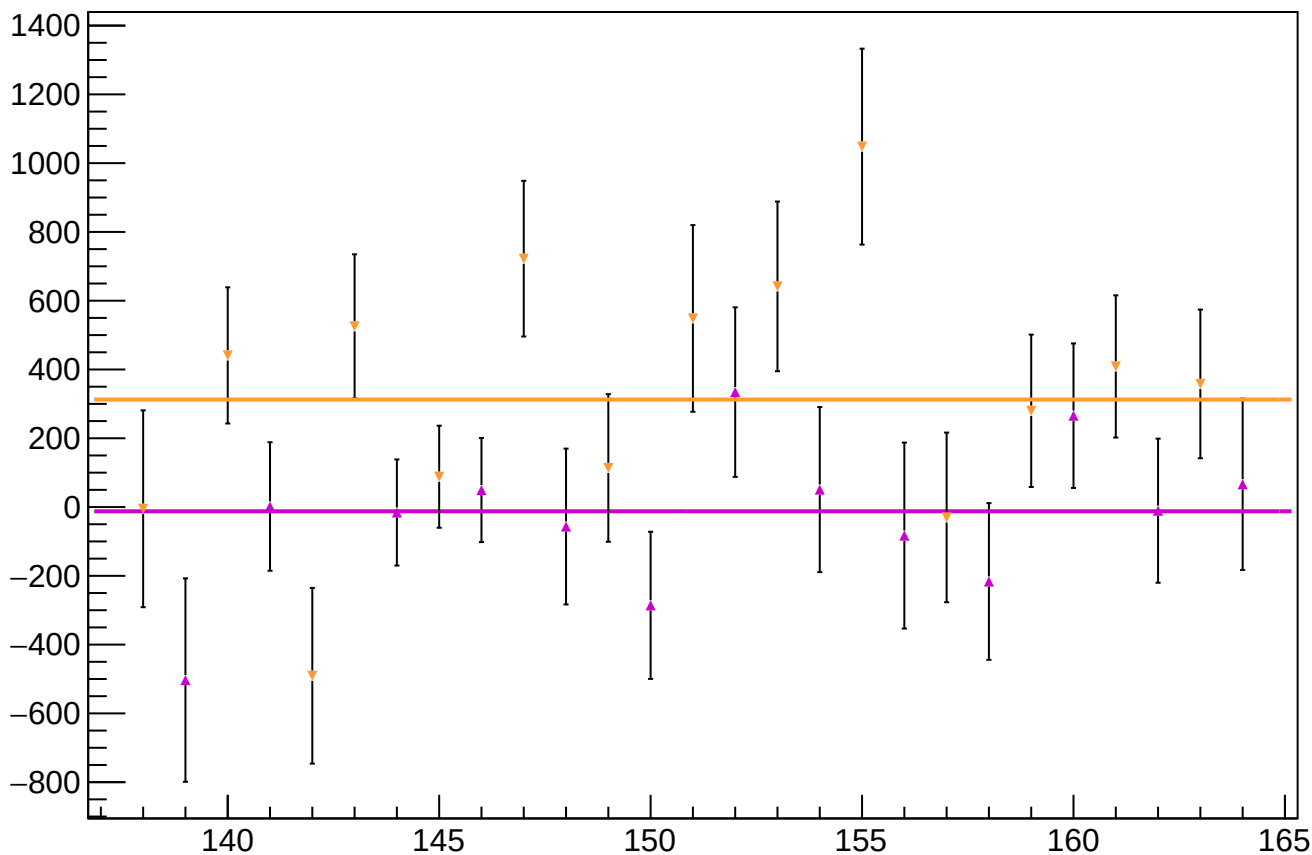
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 28.896 $\pm$ 0.006  $\chi^2/\text{NDF}$ :204878.1/12

Out: 29.238 $\pm$ 0.006  $\chi^2/\text{NDF}$ :403407.5/13

All: 29.066 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 609692.2/26

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: 312.643+/-59.090  $\chi^2/\text{NDF}$ :30.4/13

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

Left In: -12.308+/-58.191  $\chi^2/\text{NDF}$ :9.4/12

Left: 147.679+/-41.461  $\chi^2/\text{NDF}$ : 55.1/26

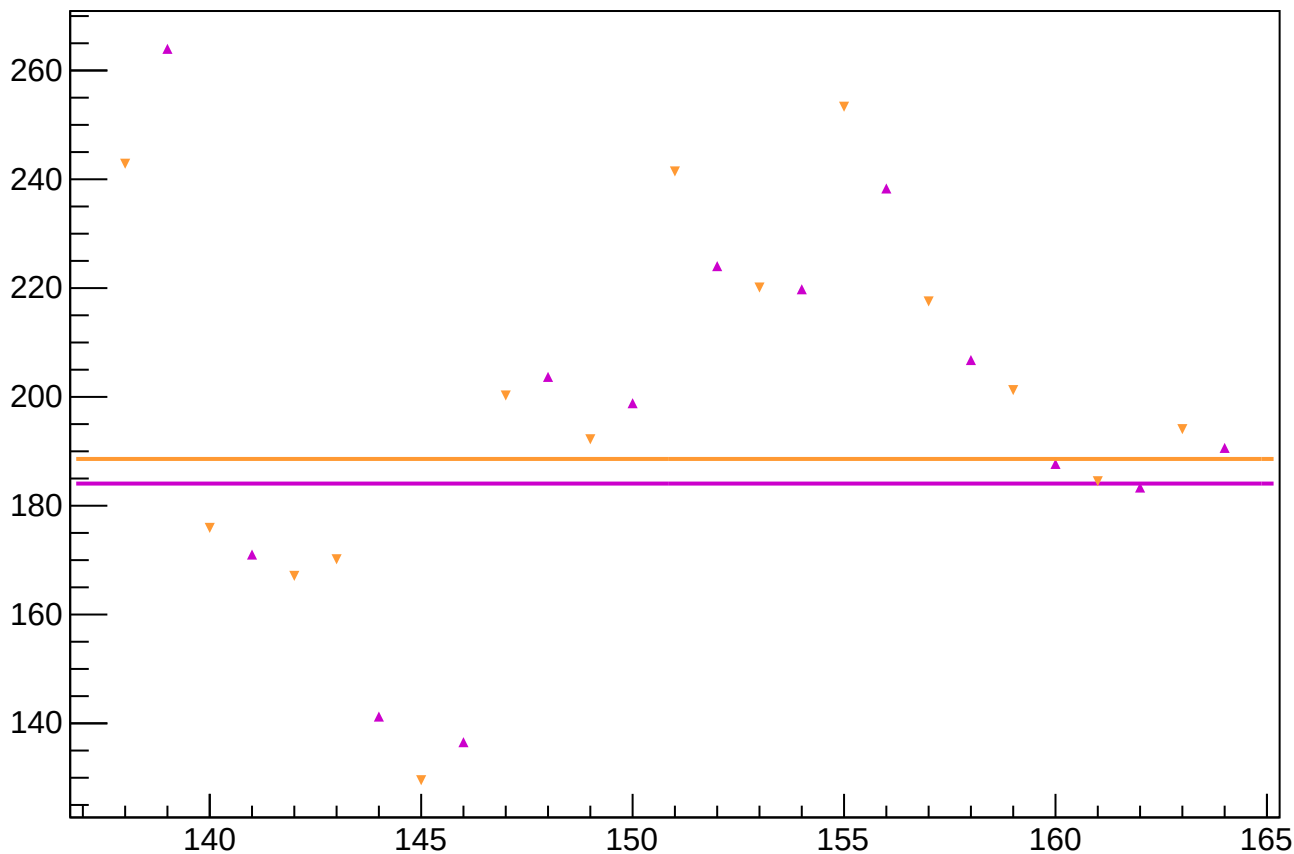
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.308+/-58.191  $\chi^2/\text{NDF}$ :9.4/12

Out: 312.643+/-59.090  $\chi^2/\text{NDF}$ :30.4/13

All: 147.679+/-41.461  $\chi^2/\text{NDF}$ : 55.1/26

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: 188.598+/-0.042  $\chi^2/\text{NDF}$ : 680372.6/13

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

Left In: 184.071+/-0.041  $\chi^2/\text{NDF}$ : 730590.7/12

Left: 186.300+/-0.029  $\chi^2/\text{NDF}$ : 1416921.5/26

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

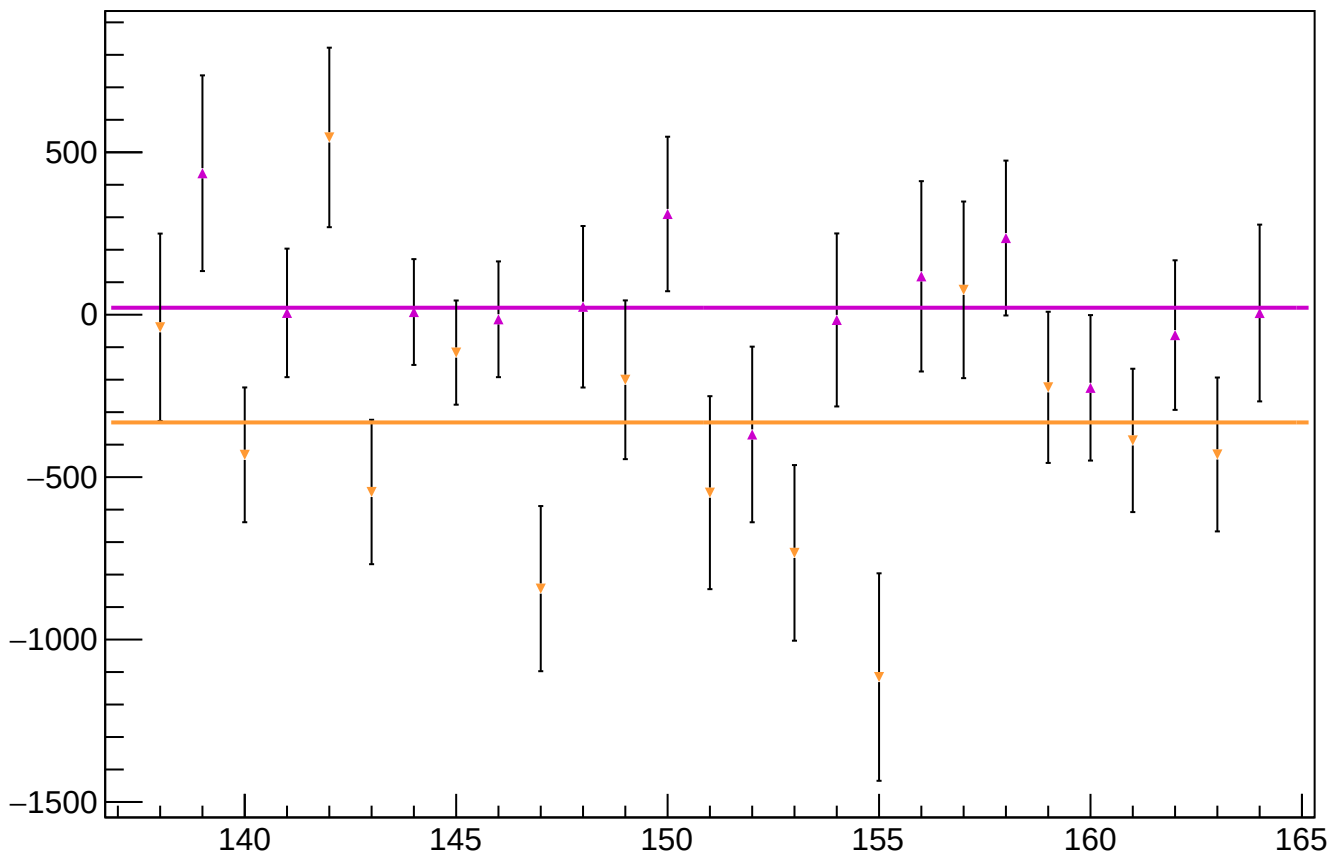
In: 184.071+/-0.041  $\chi^2/\text{NDF}$ : 730590.7/12

Out: 188.598+/-0.042  $\chi^2/\text{NDF}$ : 680372.6/13

All: 186.300+/-0.029  $\chi^2/\text{NDF}$ : 1416921.5/26



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: -331.620+/-63.902  $\chi^2/\text{NDF}$ :29.9/13

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

Left In: 21.480+/-63.374  $\chi^2/\text{NDF}$ :7.8/12

Left: -153.607+/-44.998  $\chi^2/\text{NDF}$ : 53.1/26

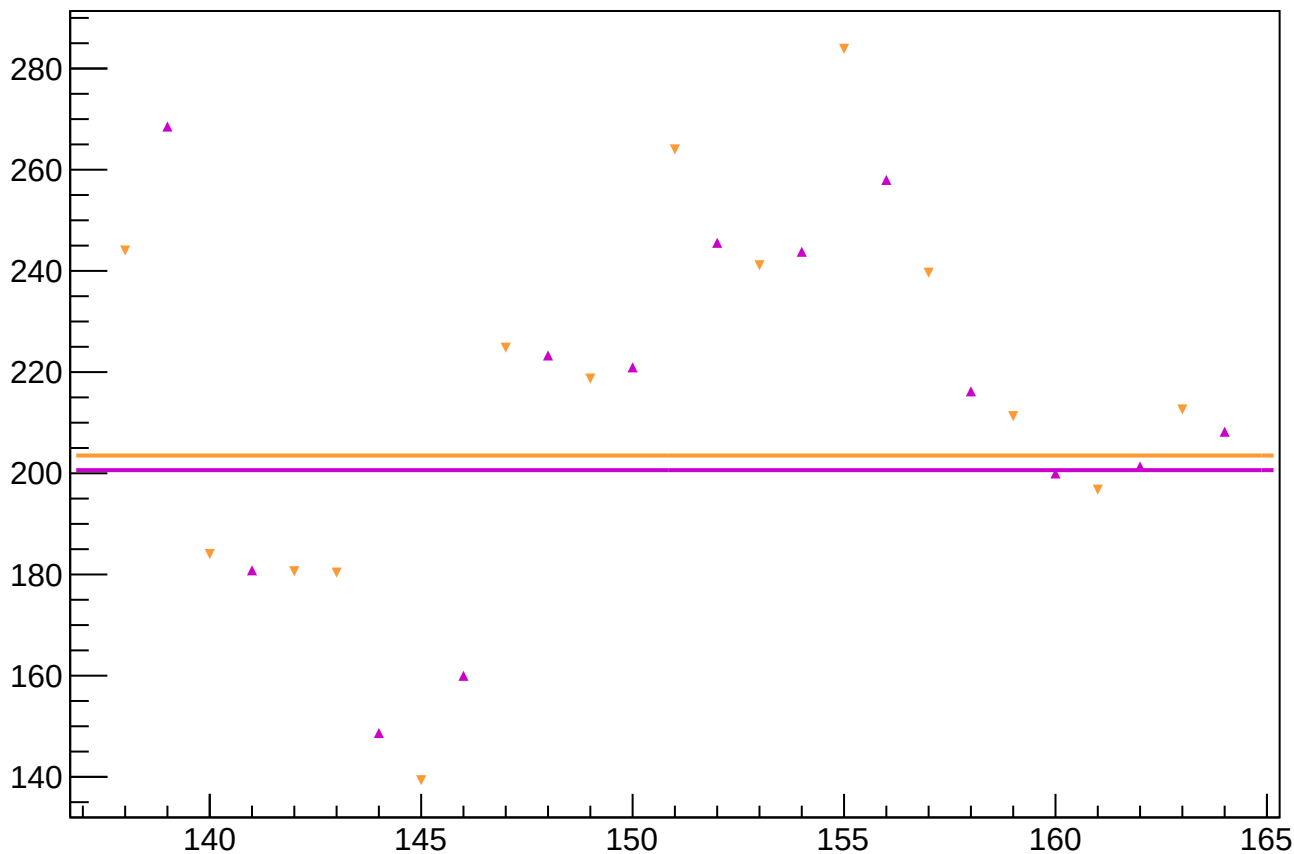
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 21.480+/-63.374  $\chi^2/\text{NDF}$ :7.8/12

Out: -331.620+/-63.902  $\chi^2/\text{NDF}$ :29.9/13

All: -153.607+/-44.998  $\chi^2/\text{NDF}$ : 53.1/26

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: 203.512+/-0.045  $\chi^2/\text{NDF}$ : 725319.9/13

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

Left In: 200.620+/-0.045  $\chi^2/\text{NDF}$ : 655099.2/12

Left: 202.054+/-0.032  $\chi^2/\text{NDF}$ : 1382485.0/26

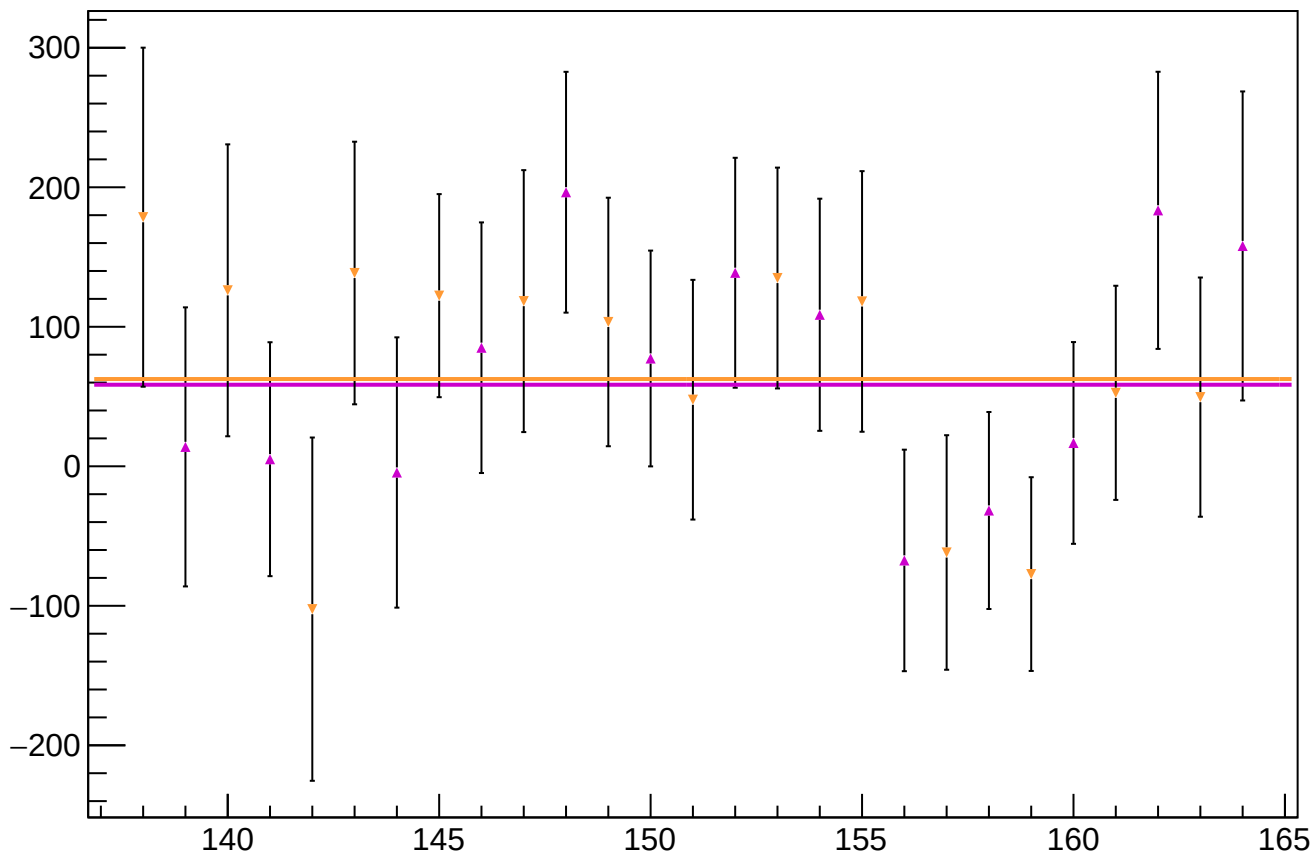
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 200.620+/-0.045  $\chi^2/\text{NDF}$ : 655099.2/12

Out: 203.512+/-0.045  $\chi^2/\text{NDF}$ : 725319.9/13

All: 202.054+/-0.032  $\chi^2/\text{NDF}$ : 1382485.0/26

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 62.552 $\pm$ 23.371  $\chi^2$ /NDF:12.5/13

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

Left In: 58.463 $\pm$ 23.576  $\chi^2$ /NDF:11.9/12

Left: 60.526 $\pm$ 16.598  $\chi^2$ /NDF: 24.4/26

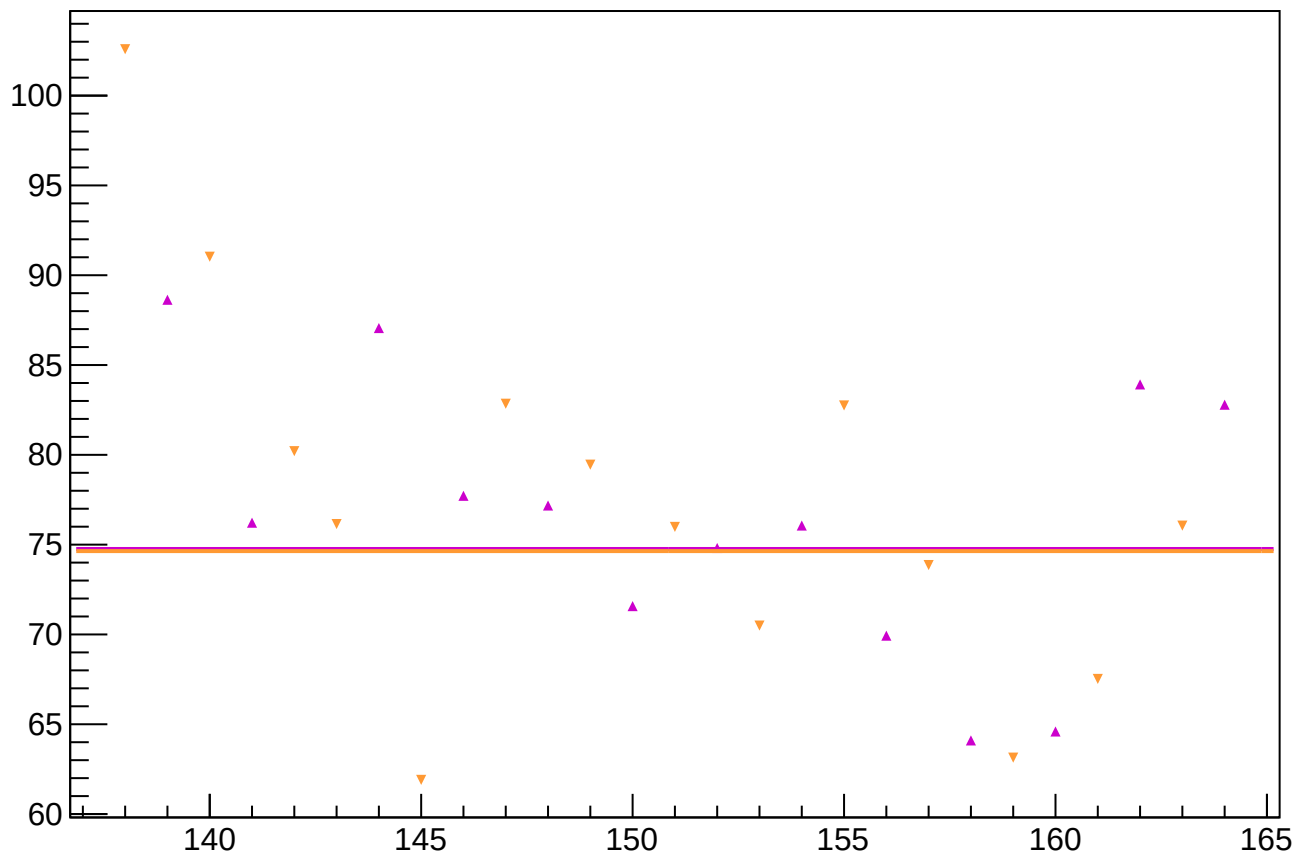
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 58.463 $\pm$ 23.576  $\chi^2$ /NDF:11.9/12

Out: 62.552 $\pm$ 23.371  $\chi^2$ /NDF:12.5/13

All: 60.526 $\pm$ 16.598  $\chi^2$ /NDF: 24.4/26

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: 74.641+/-0.017  $\chi^2/\text{NDF}$ :335626.8/13

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

Left In: 74.758+/-0.017  $\chi^2/\text{NDF}$ :198963.3/12

Left: 74.699+/-0.012  $\chi^2/\text{NDF}$ : 534615.2/26

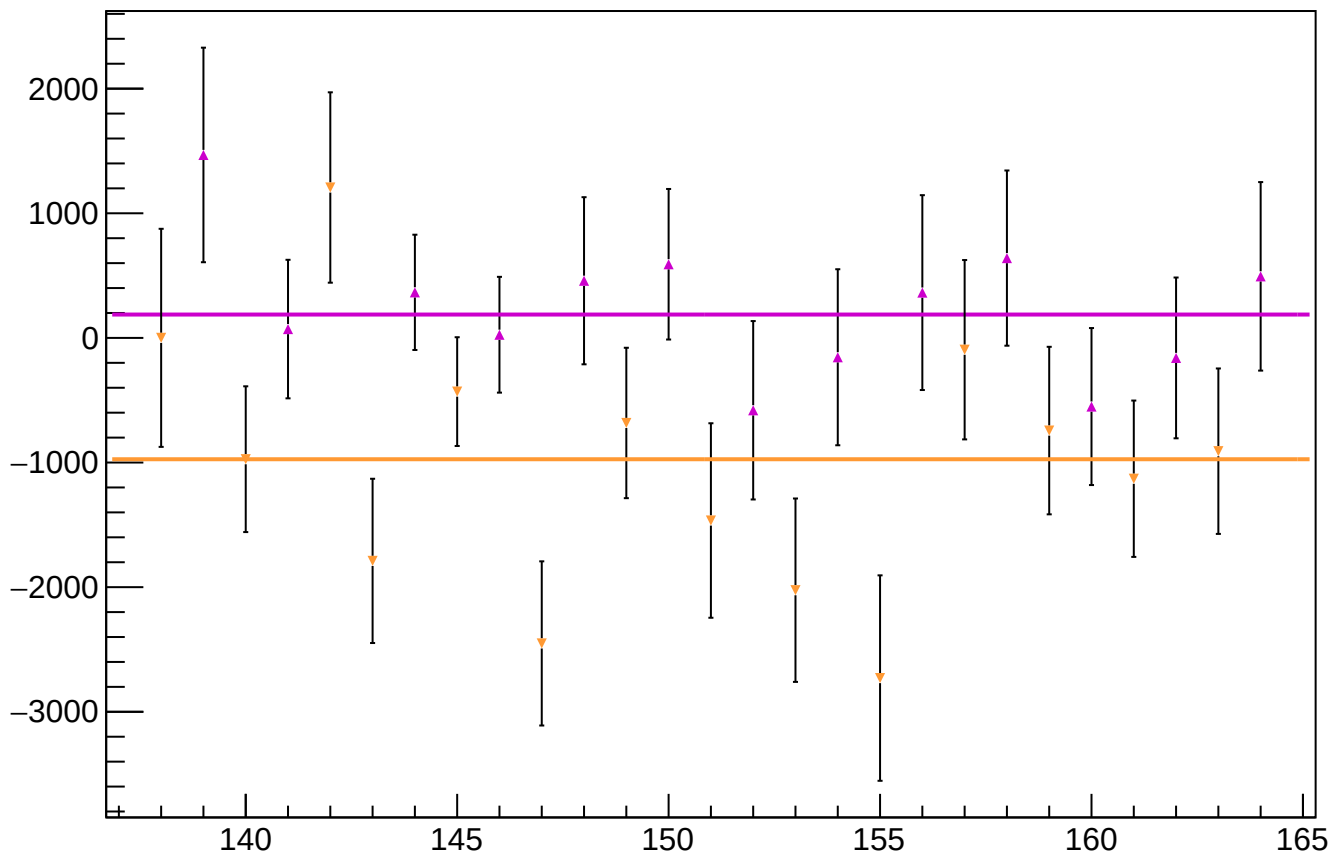
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 74.758+/-0.017  $\chi^2/\text{NDF}$ :198963.3/12

Out: 74.641+/-0.017  $\chi^2/\text{NDF}$ :335626.8/13

All: 74.699+/-0.012  $\chi^2/\text{NDF}$ : 534615.2/26

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: -973.556+/-175.494  $\chi^2/\text{NDF}$ : 26.4/13

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

Left In: 187.451+/-173.685  $\chi^2/\text{NDF}$ : 6.8/12

Left: -387.040+/-123.449  $\chi^2/\text{NDF}$ : 55.3/26

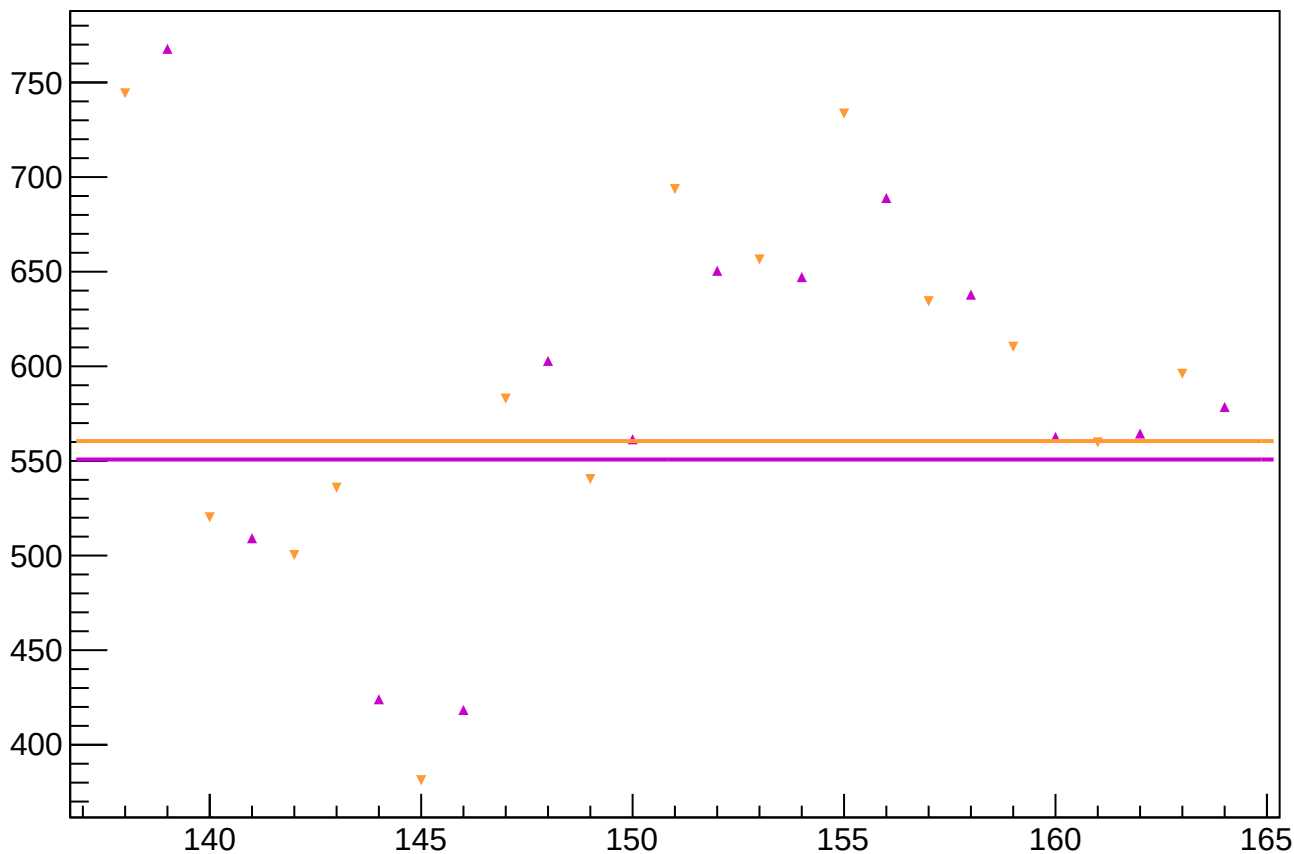
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 187.451+/-173.685  $\chi^2/\text{NDF}$ : 6.8/12

Out: -973.556+/-175.494  $\chi^2/\text{NDF}$ : 26.4/13

All: -387.040+/-123.449  $\chi^2/\text{NDF}$ : 55.3/26

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: 560.498+/-0.124  $\chi^2/\text{NDF}$ : 673176.2/13

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

Left In: 550.758+/-0.123  $\chi^2/\text{NDF}$ : 637046.9/12

Left: 555.578+/-0.087  $\chi^2/\text{NDF}$ : 1313335.6/26

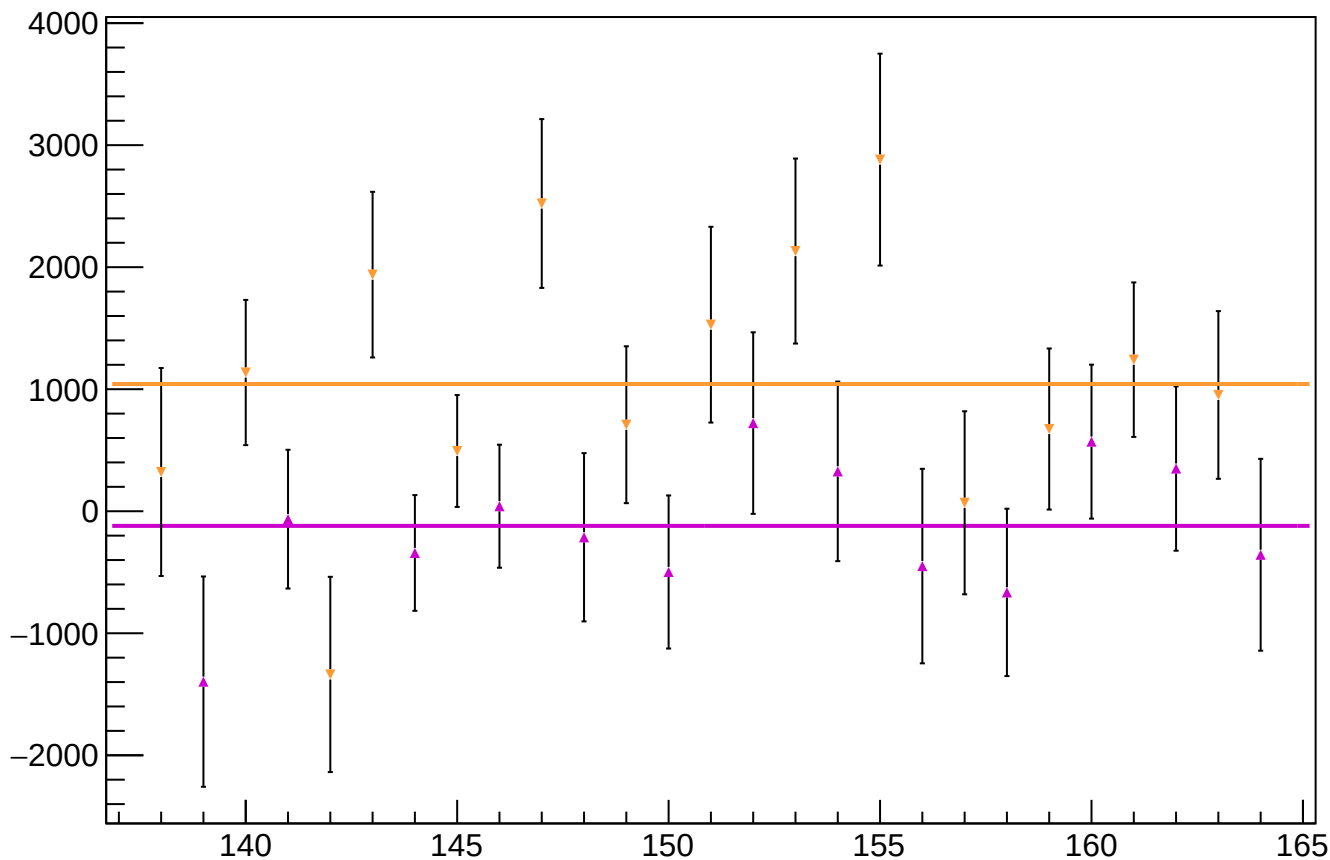
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 550.758+/-0.123  $\chi^2/\text{NDF}$ : 637046.9/12

Out: 560.498+/-0.124  $\chi^2/\text{NDF}$ : 673176.2/13

All: 555.578+/-0.087  $\chi^2/\text{NDF}$ : 1313335.6/26

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1042.365+/-181.048  $\chi^2/\text{NDF}$ :26.6/13

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

Left In: -120.000+/-179.142  $\chi^2/\text{NDF}$ :7.1/12

Left: 455.032+/-127.341  $\chi^2/\text{NDF}$ : 54.6/26

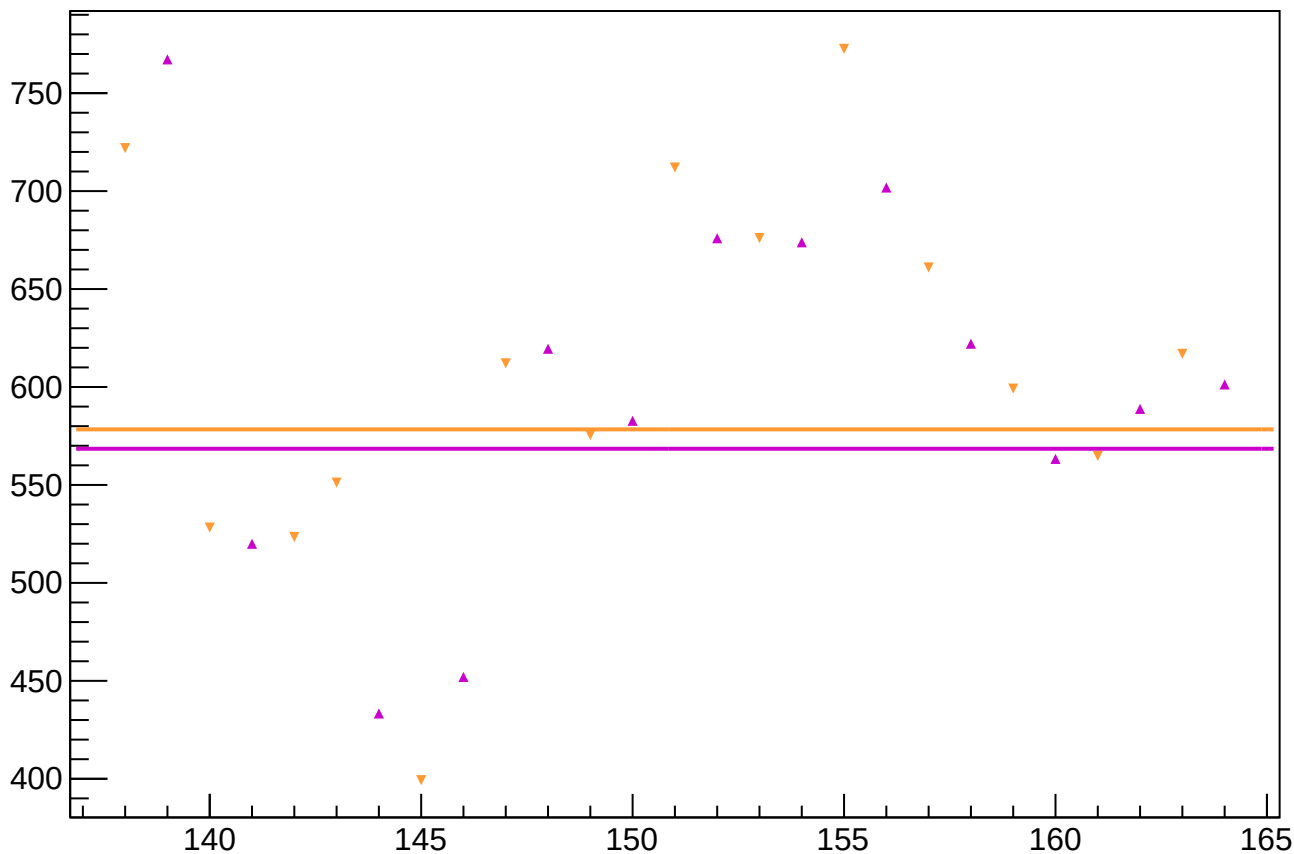
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -120.000+/-179.142  $\chi^2/\text{NDF}$ :7.1/12

Out: 1042.365+/-181.048  $\chi^2/\text{NDF}$ :26.6/13

All: 455.032+/-127.341  $\chi^2/\text{NDF}$ : 54.6/26

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 578.376+/-0.128  $\chi^2/\text{NDF}$ :615821.3/13

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

Left In: 568.477+/-0.127  $\chi^2/\text{NDF}$ :558603.2/12

Left: 573.374+/-0.090  $\chi^2/\text{NDF}$ : 1177445.7/26

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

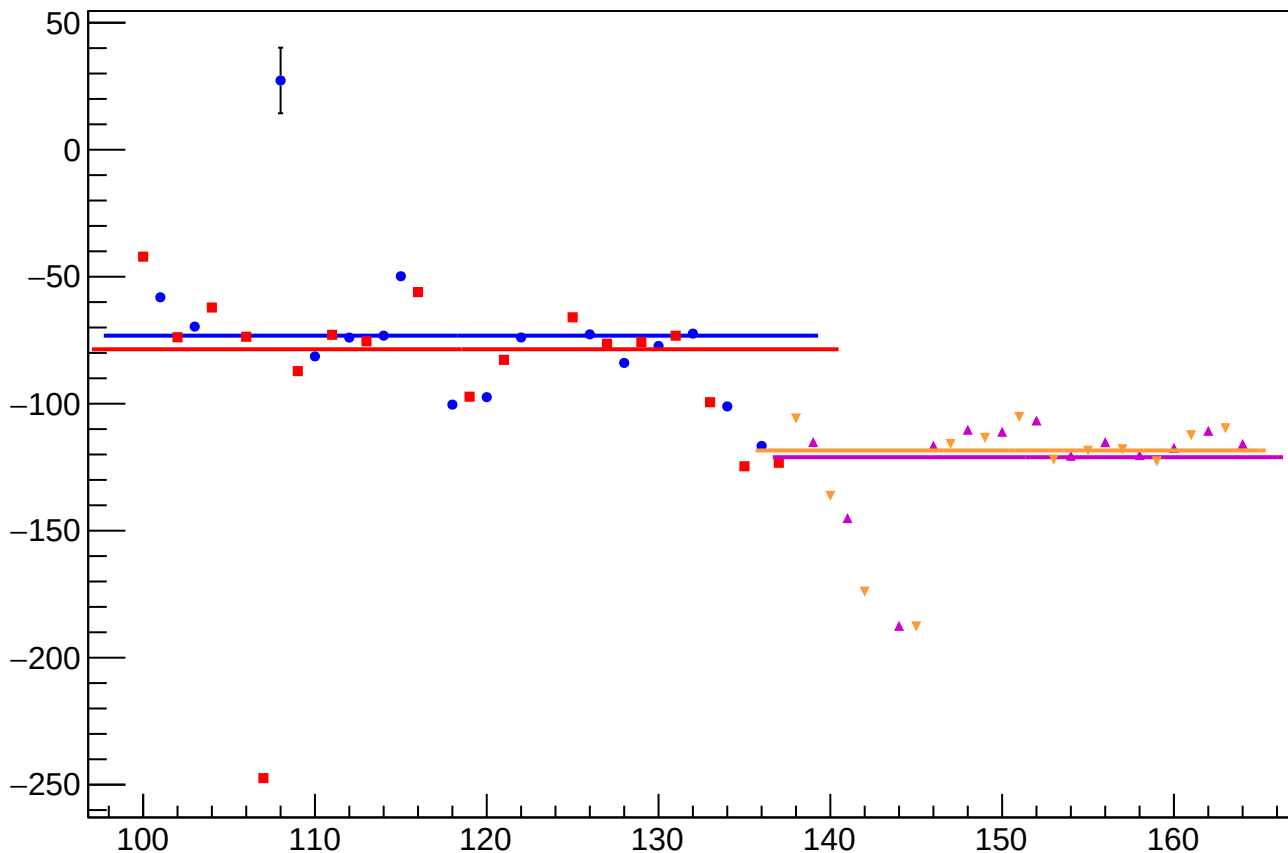
In: 568.477+/-0.127  $\chi^2/\text{NDF}$ :558603.2/12

Out: 578.376+/-0.128  $\chi^2/\text{NDF}$ :615821.3/13

All: 573.374+/-0.090  $\chi^2/\text{NDF}$ : 1177445.7/26



# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In: -73.209+/-0.000  $\chi^2/\text{NDF}$ : 127655.5/15

Left Out: -118.404+/-0.073  $\chi^2/\text{NDF}$ : 24462.2/12

Right Out: -78.570+/-0.093  $\chi^2/\text{NDF}$ : 52084.9/17

Left In: -121.061+/-0.073  $\chi^2/\text{NDF}$ : 44891.3/12

Left: -119.731+/-0.052  $\chi^2/\text{NDF}$ : 70012.4/25

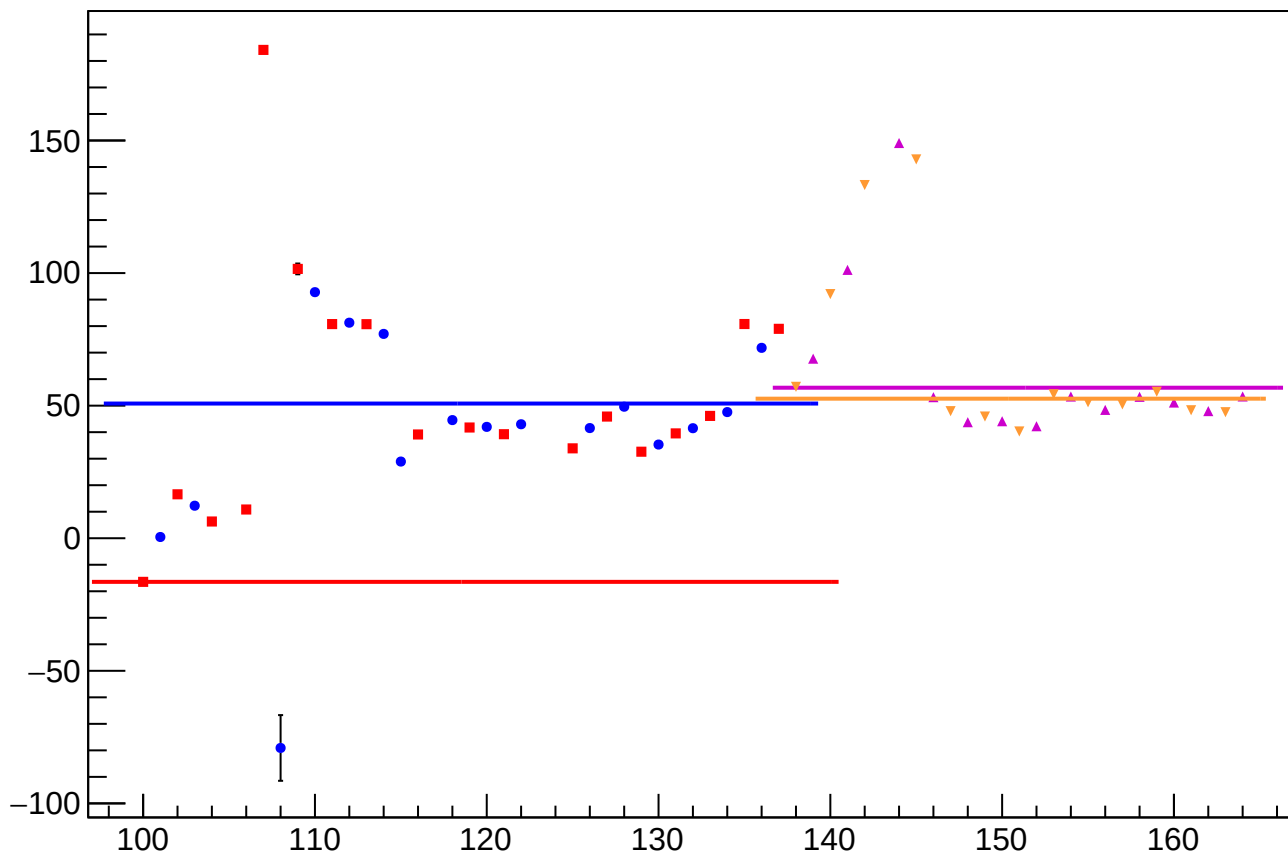
Right: -73.209+/-0.000  $\chi^2/\text{NDF}$ : 183067.5/33

In: -73.209+/-0.000  $\chi^2/\text{NDF}$ : 599183.6/28

Out: -103.166+/-0.057  $\chi^2/\text{NDF}$ : 189991.7/30

All: -73.209+/-0.000  $\chi^2/\text{NDF}$ : 1060800.5/59

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In: 50.796+/-0.074  $\chi^2/\text{NDF}$ : 89943.6/15

Left Out: 52.634+/-0.060  $\chi^2/\text{NDF}$ : 43003.8/12

Right Out: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 455268.5/17

Left In: 56.765+/-0.063  $\chi^2/\text{NDF}$ : 109067.2/12

Left: 54.611+/-0.043  $\chi^2/\text{NDF}$ : 154337.7/25

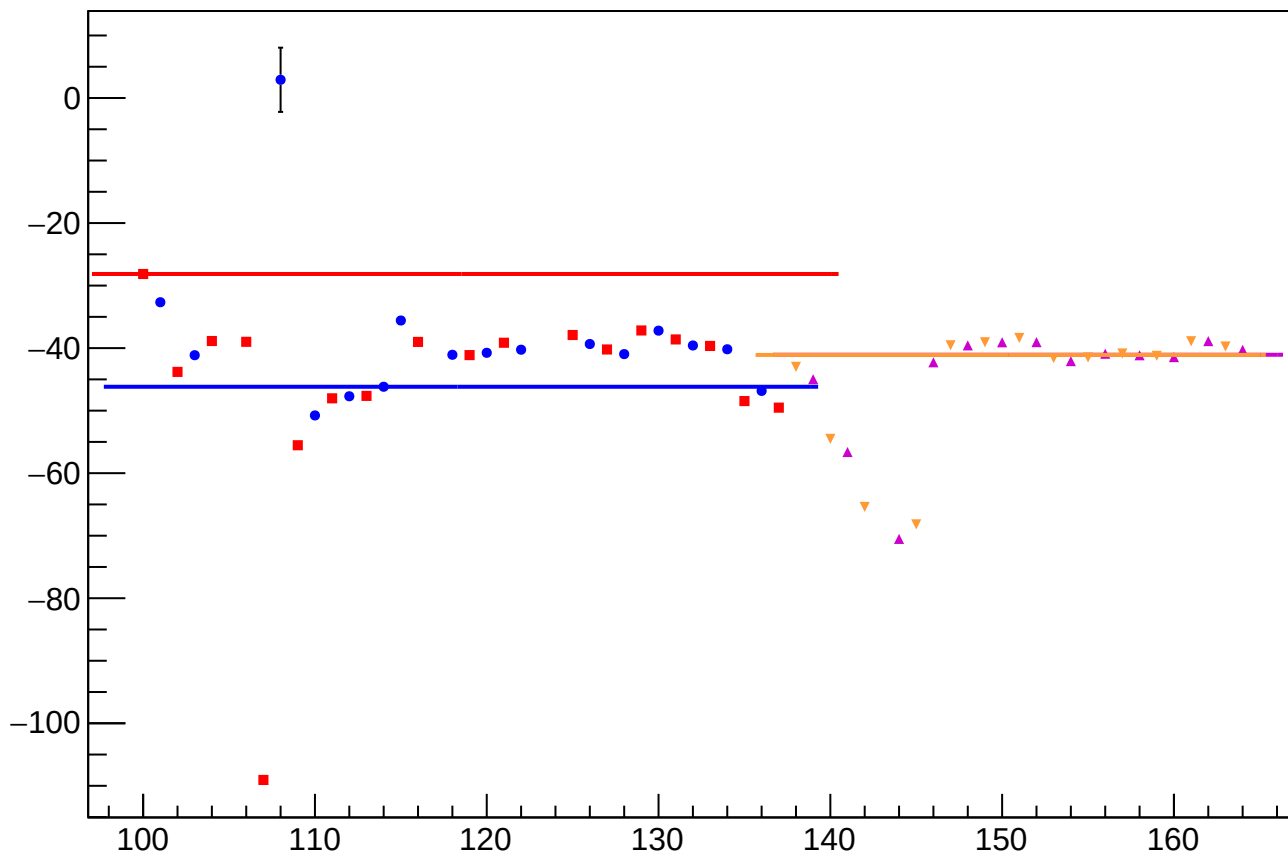
Right: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 1366073.0/33

In: 54.281+/-0.048  $\chi^2/\text{NDF}$ : 202786.8/28

Out: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 1823139.9/30

All: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 4208024.6/59

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In: -46.180±/0.000  $\chi^2/\text{NDF}$ : 472878.7/15

Left Out: -41.090±/0.008  $\chi^2/\text{NDF}$ : 77307.9/12

Right Out: -28.144±/0.000  $\chi^2/\text{NDF}$ : 717935.6/17

Left In: -41.061±/0.010  $\chi^2/\text{NDF}$ : 149497.8/12

Left: -41.077±/0.006  $\chi^2/\text{NDF}$ : 226811.0/25

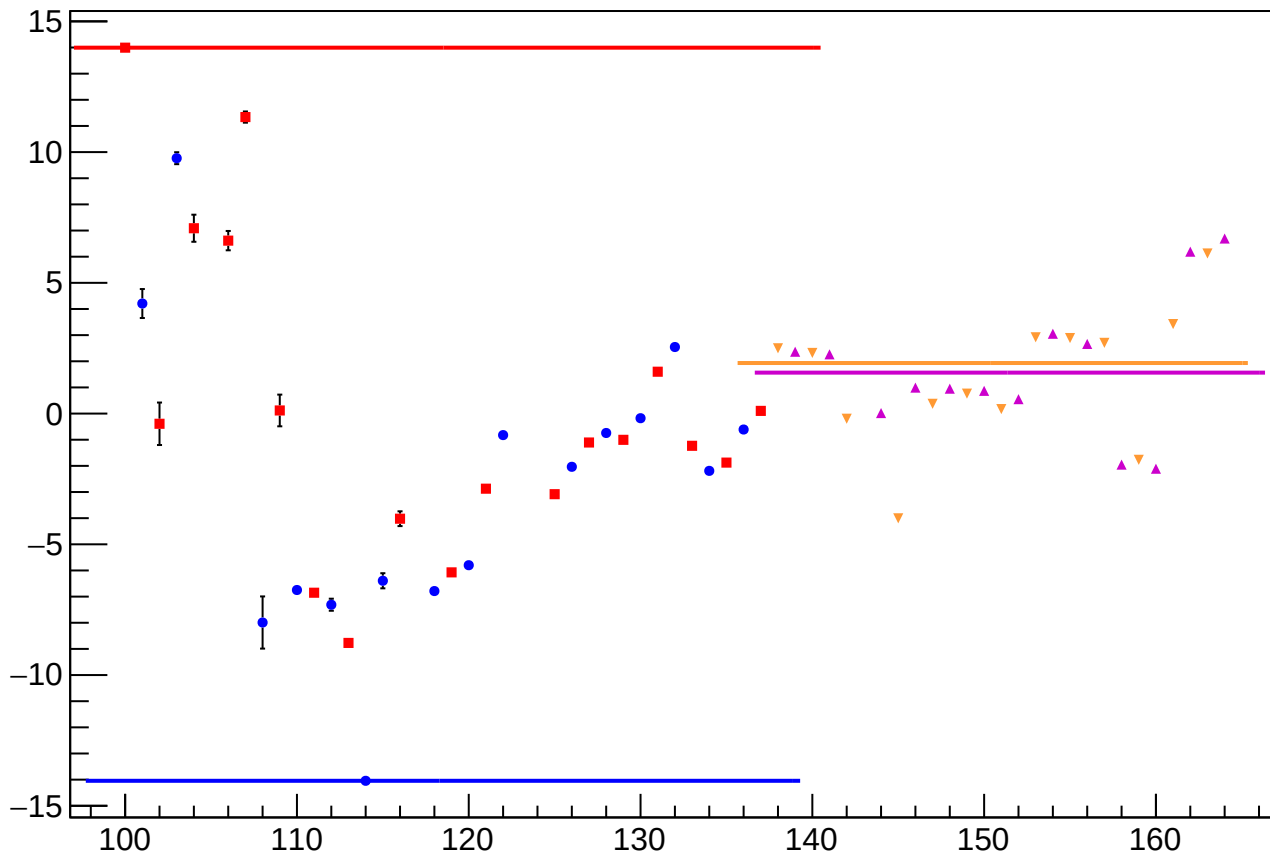
Right: -33.813±/0.000  $\chi^2/\text{NDF}$ : 539977182263583

In: -46.180±/0.000  $\chi^2/\text{NDF}$ : 909728.8/28

Out: -28.144±/0.000  $\chi^2/\text{NDF}$ : 3175741.9/30

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:  $1.934 \pm 0.009$   $\chi^2/\text{NDF}$ : 67456.7/12

Right Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 389892.9/17

Left In:  $1.566 \pm 0.008$   $\chi^2/\text{NDF}$ : 77090.5/12

Left:  $1.733 \pm 0.006$   $\chi^2/\text{NDF}$ : 145396.0/25

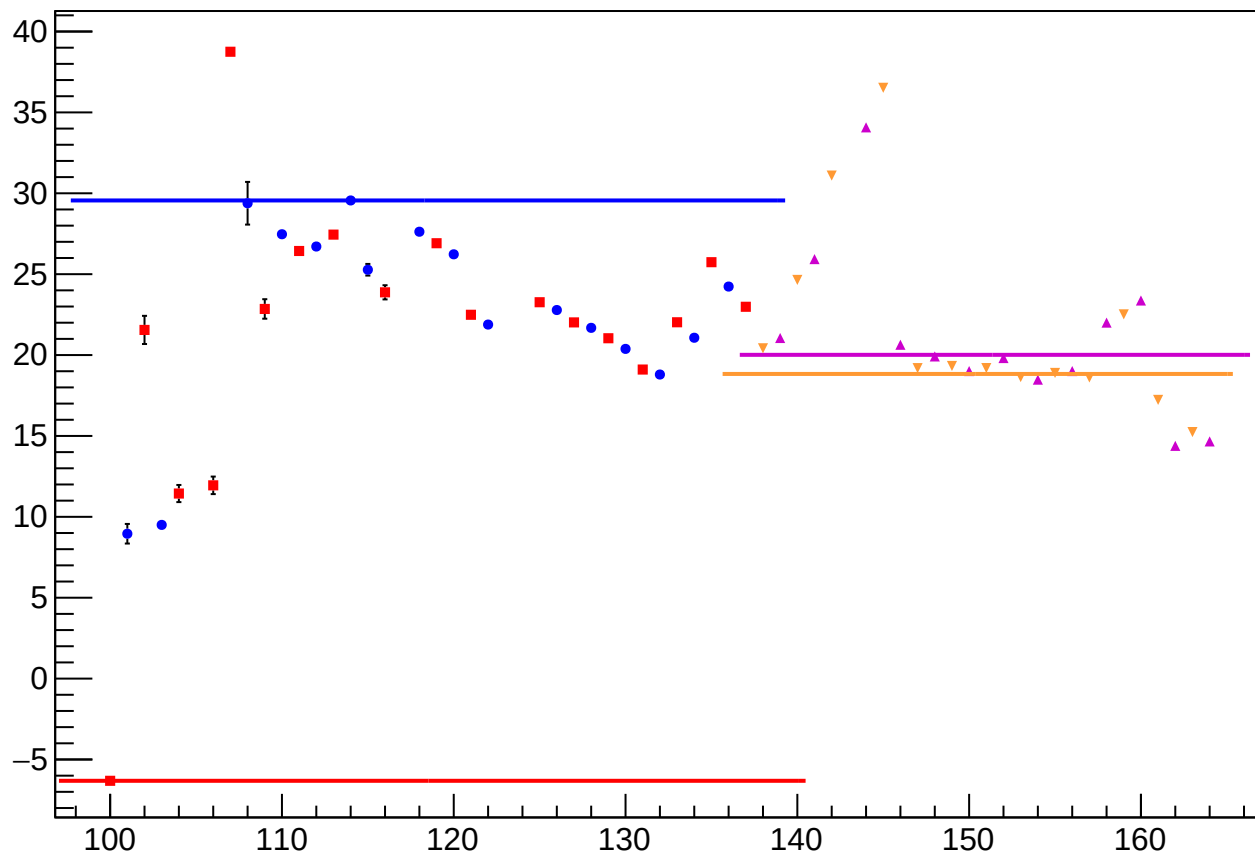
Right:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}$ : 46979633245184581

In:  $-14.044 \pm 0.000$   $\chi^2/\text{NDF}$ : 4214205.5/28

Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 2127439.7/30

All:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}$ : 46979633245184581

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 29.557+/-0.000  $\chi^2/\text{NDF}$ : 88755.1/15

Left Out: 18.832+/-0.009  $\chi^2/\text{NDF}$ : 52829.6/12

Right Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ : 1630502.4/17

Left In: 20.014+/-0.009  $\chi^2/\text{NDF}$ : 87329.1/12

Left: 19.481+/-0.006  $\chi^2/\text{NDF}$ : 148676.8/25

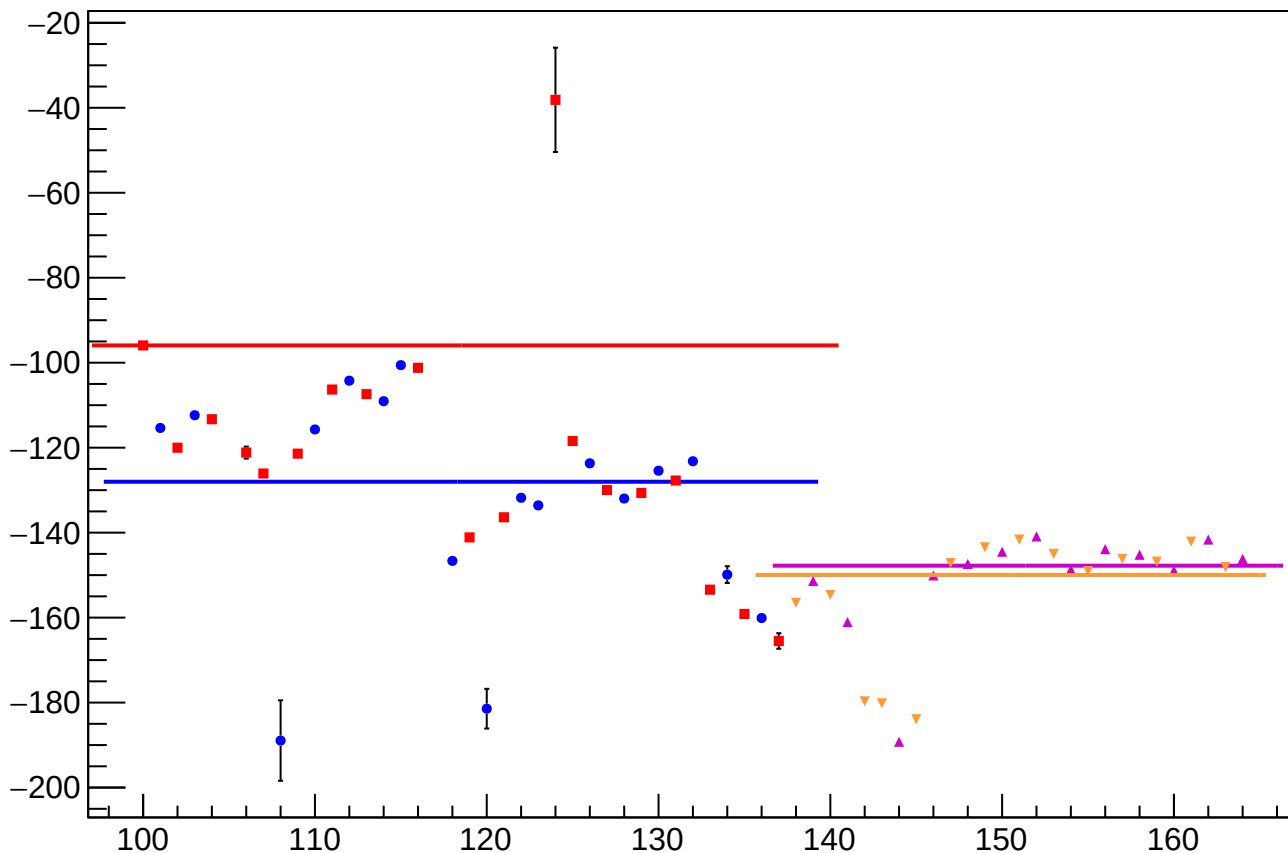
Right: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398160

In: 29.557+/-0.000  $\chi^2/\text{NDF}$ : 1409853.4/28

Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ : 8710736.0/30

All: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In: -128.021+/-0.098  $\chi^2/\text{NDF}$ : 38162.5/16

Left Out: -149.967+/-0.063  $\chi^2/\text{NDF}$ : 27032.3/13

Right Out: -95.934+/-0.000  $\chi^2/\text{NDF}$ : 168284.2/18

Left In: -147.776+/-0.058  $\chi^2/\text{NDF}$ : 22331.6/12

Left: -148.776+/-0.043  $\chi^2/\text{NDF}$ : 50015.1/26

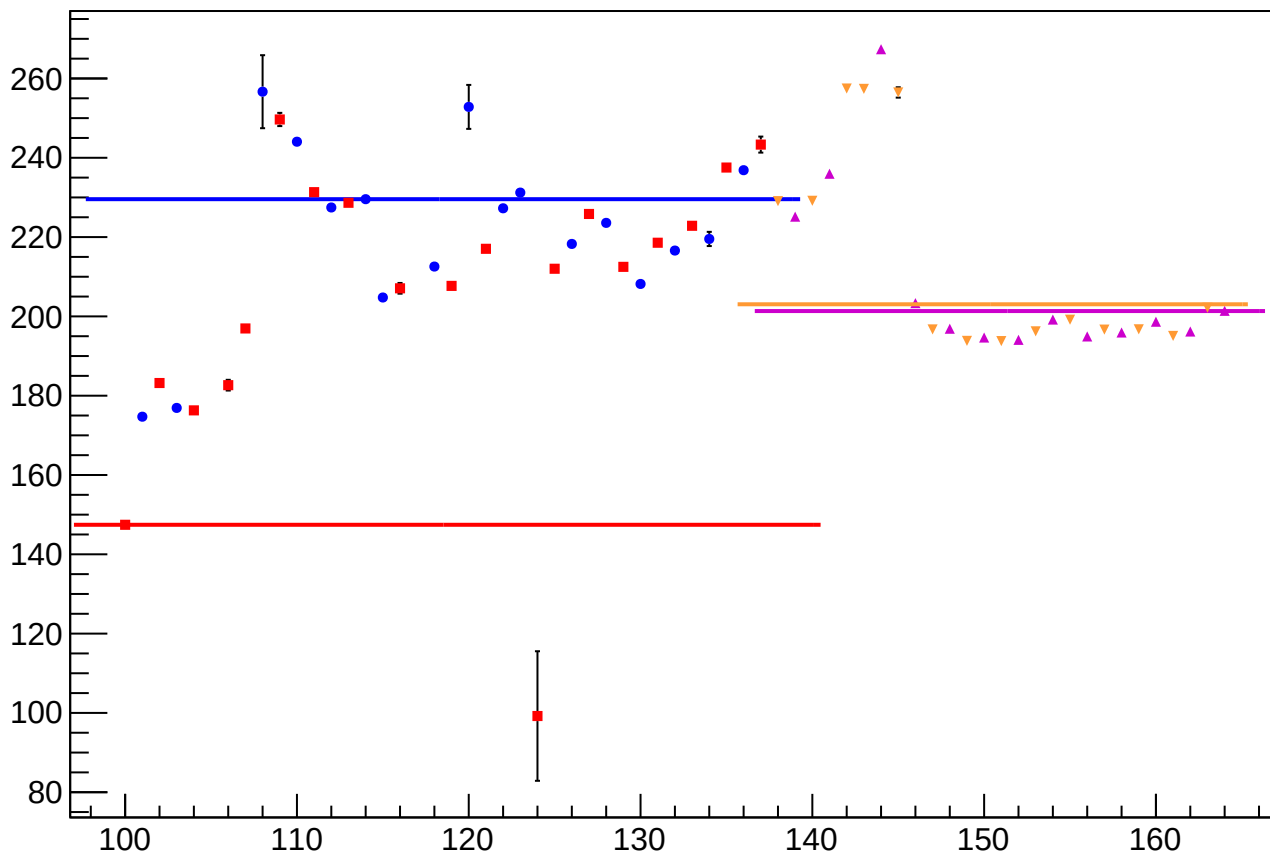
Right: -95.934+/-0.000  $\chi^2/\text{NDF}$ : 313037.7/35

In: -142.672+/-0.050  $\chi^2/\text{NDF}$ : 90458.6/29

Out: -95.934+/-0.000  $\chi^2/\text{NDF}$ : 923890.0/32

All: -95.934+/-0.000  $\chi^2/\text{NDF}$ : 1889562.4/62

# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In:  $229.560 \pm 0.000$   $\chi^2/\text{NDF}$ : 37813.1/16

Left Out:  $203.054 \pm 0.052$   $\chi^2/\text{NDF}$ : 103101.5/13

Right Out:  $147.445 \pm 0.000$   $\chi^2/\text{NDF}$ : 546753.3/18

Left In:  $201.345 \pm 0.050$   $\chi^2/\text{NDF}$ : 76146.0/12

Left:  $202.159 \pm 0.036$   $\chi^2/\text{NDF}$ : 179814.0/26

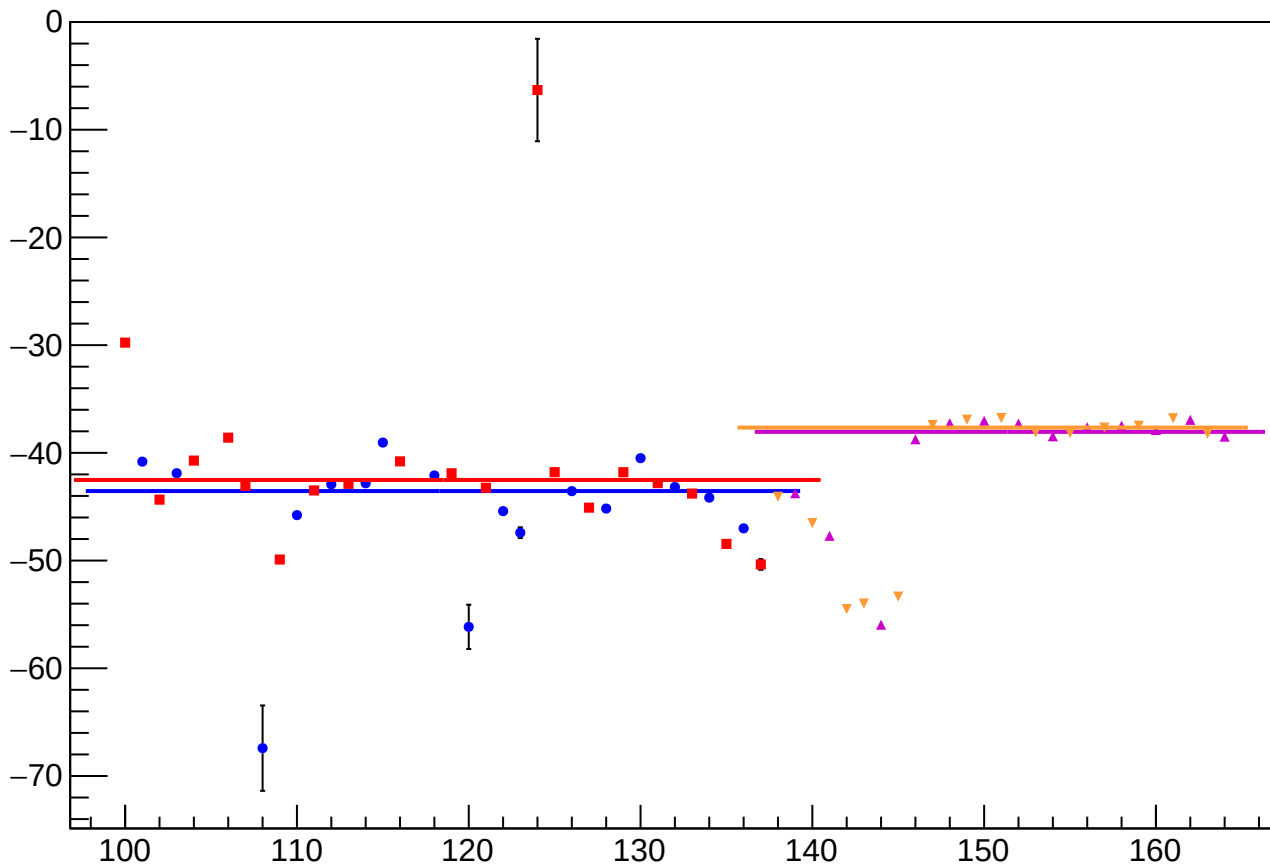
Right:  $173.253 \pm 0.000$   $\chi^2/\text{NDF}$ : 157405034293311

In:  $229.560 \pm 0.000$   $\chi^2/\text{NDF}$ : 437918.2/29

Out:  $147.445 \pm 0.000$   $\chi^2/\text{NDF}$ : 1794550.1/32

All:  $173.253 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $-37.650 \pm 0.005$   $\chi^2/\text{NDF}: 240792.3/13$

Right Out:  $-42.515 \pm 0.021$   $\chi^2/\text{NDF}: 7216.9/18$

Left In:  $-38.051 \pm 0.005$   $\chi^2/\text{NDF}: 132984.9/12$

Left:  $-37.830 \pm 0.003$   $\chi^2/\text{NDF}: 377194.9/26$

Right:  $-42.980 \pm 0.015$   $\chi^2/\text{NDF}: 21321.7/35$

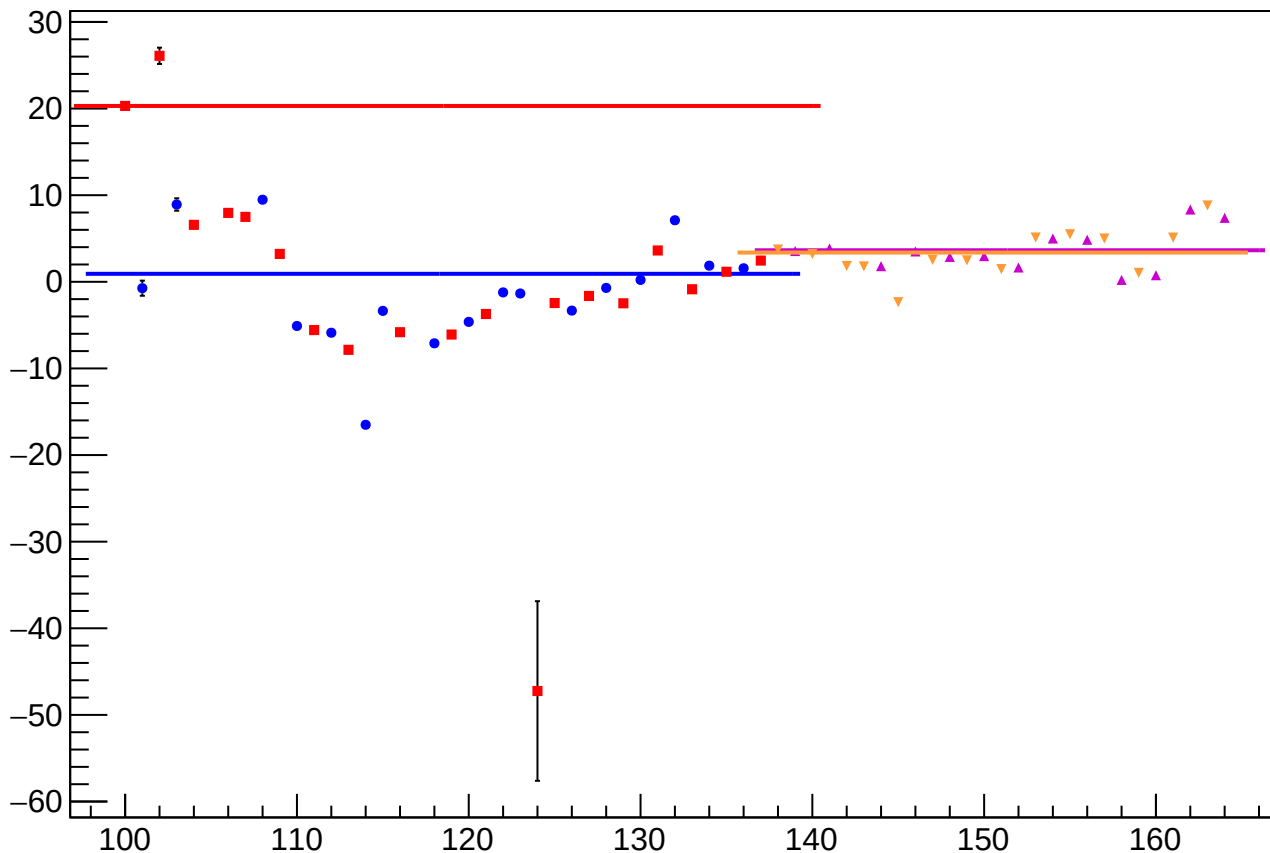
In:  $-38.310 \pm 0.005$   $\chi^2/\text{NDF}: 200515.4/29$

Out:  $-37.876 \pm 0.004$   $\chi^2/\text{NDF}: 300092.6/32$

All:  $-38.070 \pm 0.003$   $\chi^2/\text{NDF}: 504788.0/62$



# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In:  $0.923 \pm 0.020$   $\chi^2/\text{NDF}: 21353.5/16$

Left Out:  $3.379 \pm 0.009$   $\chi^2/\text{NDF}: 72419.7/13$

Right Out:  $20.304 \pm 0.000$   $\chi^2/\text{NDF}: 918407.4/18$

Left In:  $3.642 \pm 0.009$   $\chi^2/\text{NDF}: 62508.9/12$

Left:  $3.515 \pm 0.006$   $\chi^2/\text{NDF}: 135381.2/26$

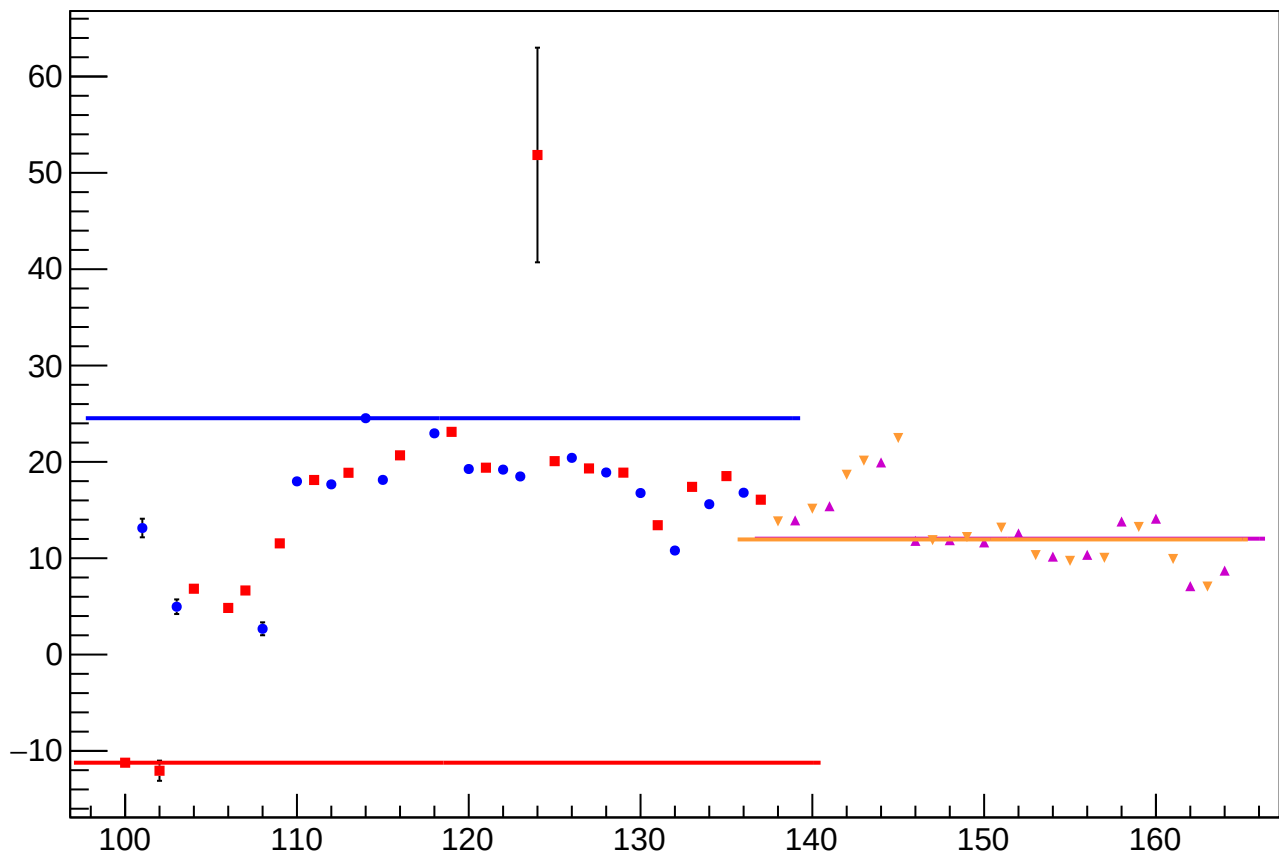
Right:  $20.304 \pm 0.000$   $\chi^2/\text{NDF}: 1860705.2/35$

In:  $3.226 \pm 0.008$   $\chi^2/\text{NDF}: 99209.1/29$

Out:  $20.304 \pm 0.000$   $\chi^2/\text{NDF}: 4594540.0/32$

All:  $20.304 \pm 0.000$   $\chi^2/\text{NDF}: 9368171.4/62$

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.533+/-0.000  $\chi^2/\text{NDF}$ : 119839.5/16

Left Out: 11.949+/-0.010  $\chi^2/\text{NDF}$ : 82016.2/13

Right Out: -11.224+/-0.000  $\chi^2/\text{NDF}$ : 2204048.4/18

Left In: 12.029+/-0.010  $\chi^2/\text{NDF}$ : 45234.0/12

Left: 11.988+/-0.007  $\chi^2/\text{NDF}$ : 127279.9/26

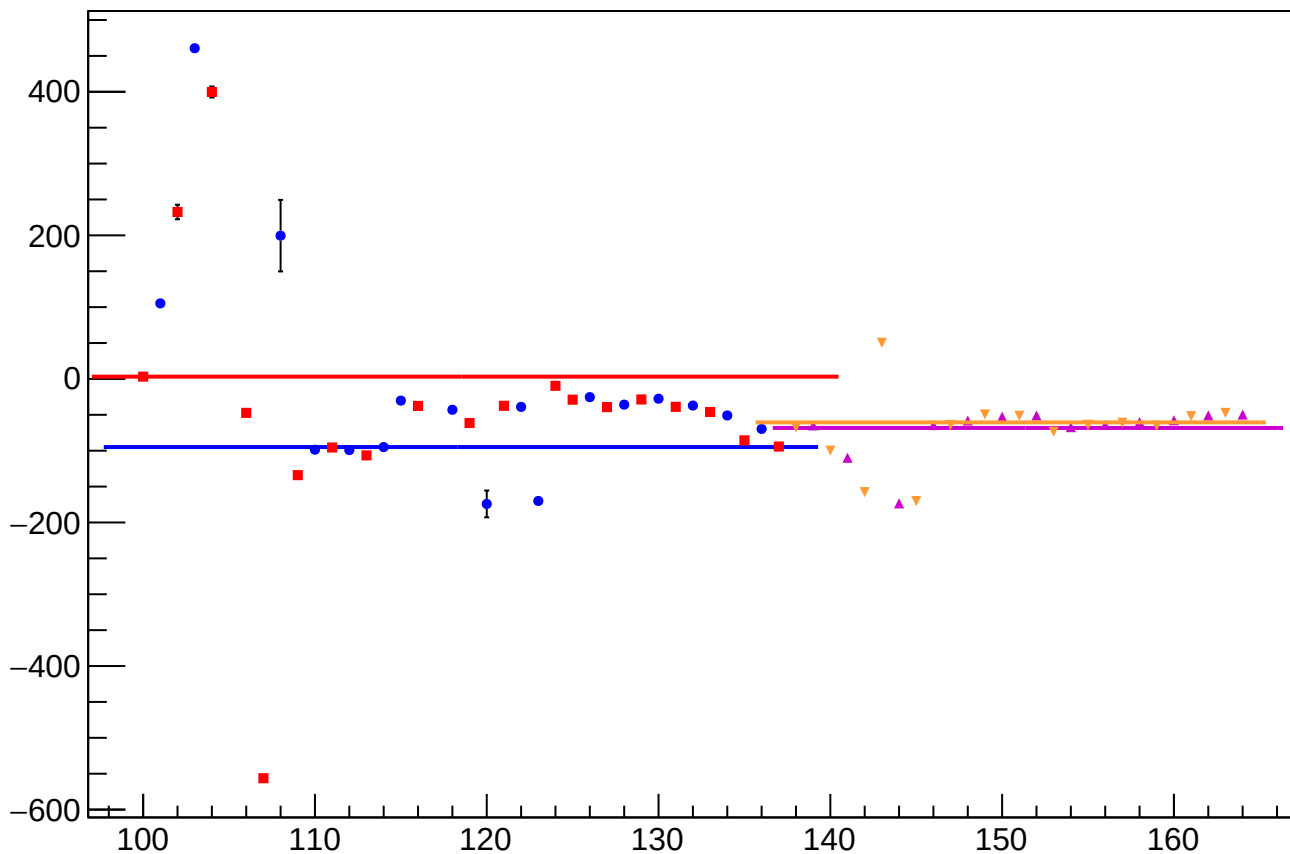
Right: -7.548+/-0.000  $\chi^2/\text{NDF}$ : 2499340702901629

In: 24.533+/-0.000  $\chi^2/\text{NDF}$ : 1590181.6/29

Out: -11.224+/-0.000  $\chi^2/\text{NDF}$ : 7436659.3/32

All: -7.548+/-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:  $-60.546 \pm 0.124$   $\chi^2/\text{NDF}: 42295.7/13$

Right Out:  $3.148 \pm 0.000$   $\chi^2/\text{NDF}: 61196784.3/18$

Left In:  $-68.309 \pm 0.144$   $\chi^2/\text{NDF}: 37981.6/12$

Left:  $-63.866 \pm 0.094$   $\chi^2/\text{NDF}: 81940.1/26$

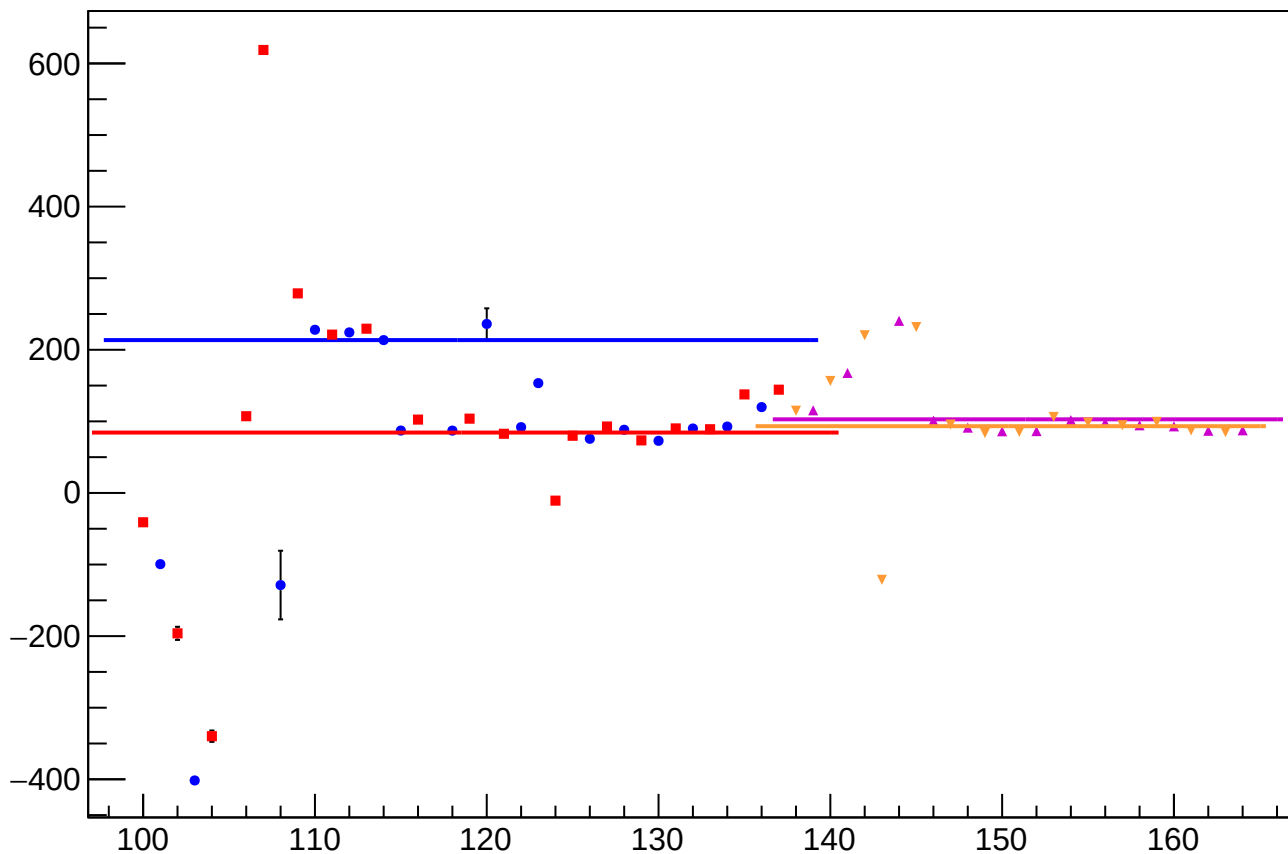
Right:  $2.973 \pm 0.000$   $\chi^2/\text{NDF}: 52299232074263321$

In:  $-94.927 \pm 0.000$   $\chi^2/\text{NDF}: 790912.5/29$

Out:  $3.148 \pm 0.000$   $\chi^2/\text{NDF}: 61500860.3/32$

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:  $93.275 \pm 0.104$   $\chi^2/\text{NDF}$ : 150967.9/13

Right Out:  $84.377 \pm 0.176$   $\chi^2/\text{NDF}$ : 227868.3/18

Left In:  $102.845 \pm 0.124$   $\chi^2/\text{NDF}$ : 59177.1/12

Left:  $97.240 \pm 0.080$   $\chi^2/\text{NDF}$ : 213657.5/26

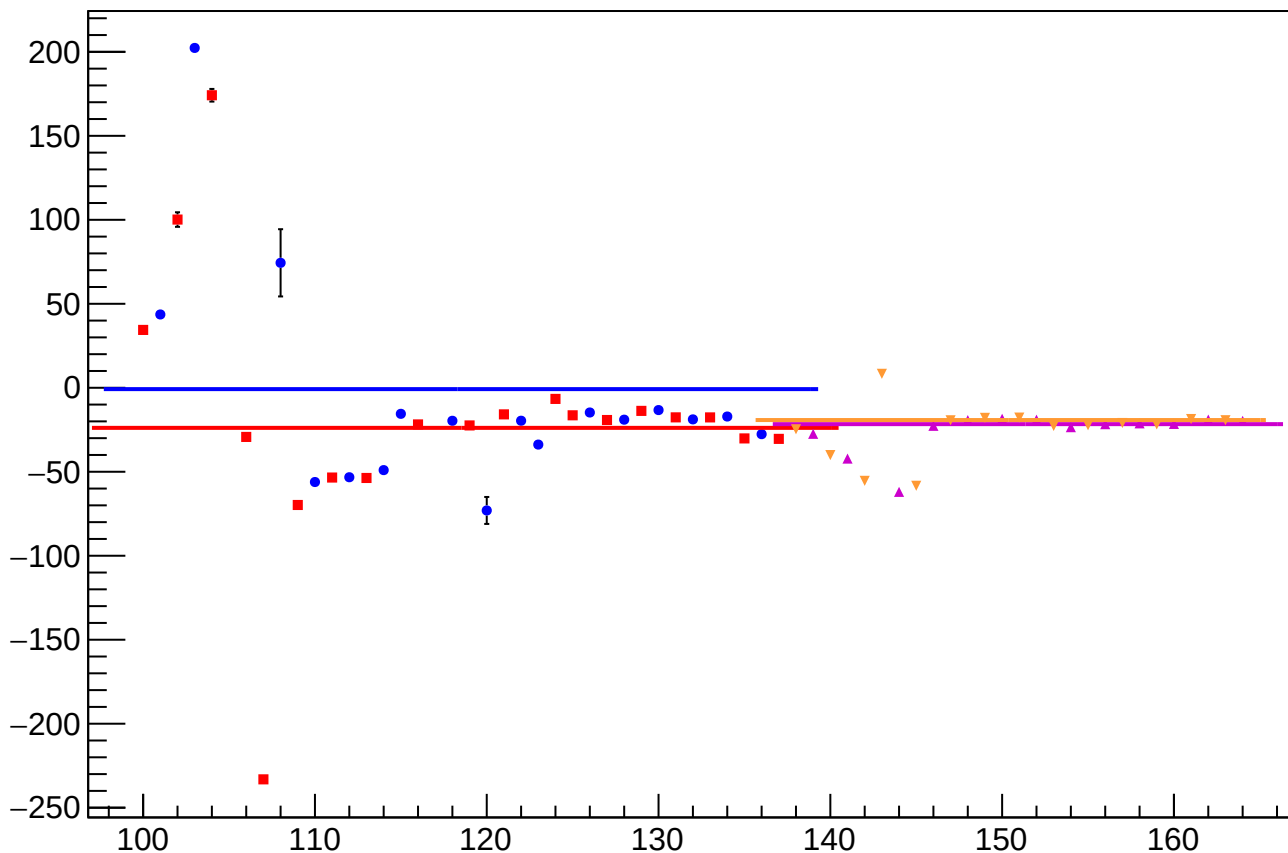
Right:  $213.523 \pm 0.000$   $\chi^2/\text{NDF}$ : 3455404.0/35

In:  $213.523 \pm 0.000$   $\chi^2/\text{NDF}$ : 3552016.7/29

Out:  $90.979 \pm 0.090$   $\chi^2/\text{NDF}$ : 380727.4/32

All:  $213.523 \pm 0.000$   $\chi^2/\text{NDF}$ : 5806290.2/62

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-0.799 \pm 0.031$   $\chi^2/\text{NDF}$ : 2816818.1/16

Left Out:  $-19.210 \pm 0.013$   $\chi^2/\text{NDF}$ : 564293.0/13

Right Out:  $-23.861 \pm 0.044$   $\chi^2/\text{NDF}$ : 200002.4/18

Left In:  $-21.650 \pm 0.017$   $\chi^2/\text{NDF}$ : 122577.2/12

Left:  $-20.112 \pm 0.010$   $\chi^2/\text{NDF}$ : 699689.8/26

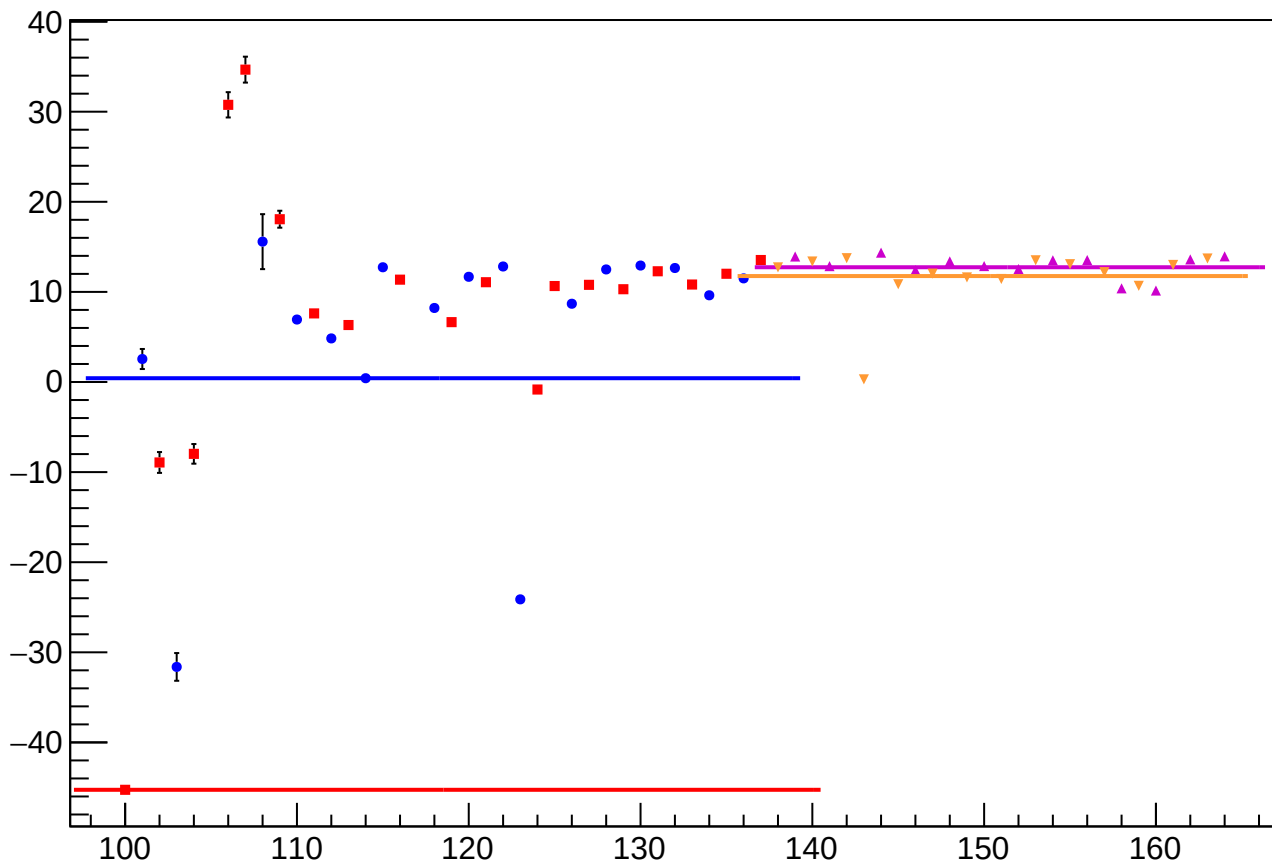
Right:  $-8.664 \pm 0.025$   $\chi^2/\text{NDF}$ : 3201437.1/35

In:  $-16.863 \pm 0.015$   $\chi^2/\text{NDF}$ : 3280291.4/29

Out:  $-19.596 \pm 0.013$   $\chi^2/\text{NDF}$ : 774745.9/32

All:  $-18.473 \pm 0.010$   $\chi^2/\text{NDF}$ : 4074537.5/62

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $0.420 \pm 0.000$   $\chi^2/\text{NDF}$ : 84744.6/16

Left Out:  $11.758 \pm 0.019$   $\chi^2/\text{NDF}$ : 26529.2/13

Right Out:  $-45.259 \pm 0.000$   $\chi^2/\text{NDF}$ : 1298633.3/18

Left In:  $12.736 \pm 0.017$   $\chi^2/\text{NDF}$ : 4905.2/12

Left:  $12.307 \pm 0.013$   $\chi^2/\text{NDF}$ : 32916.3/26

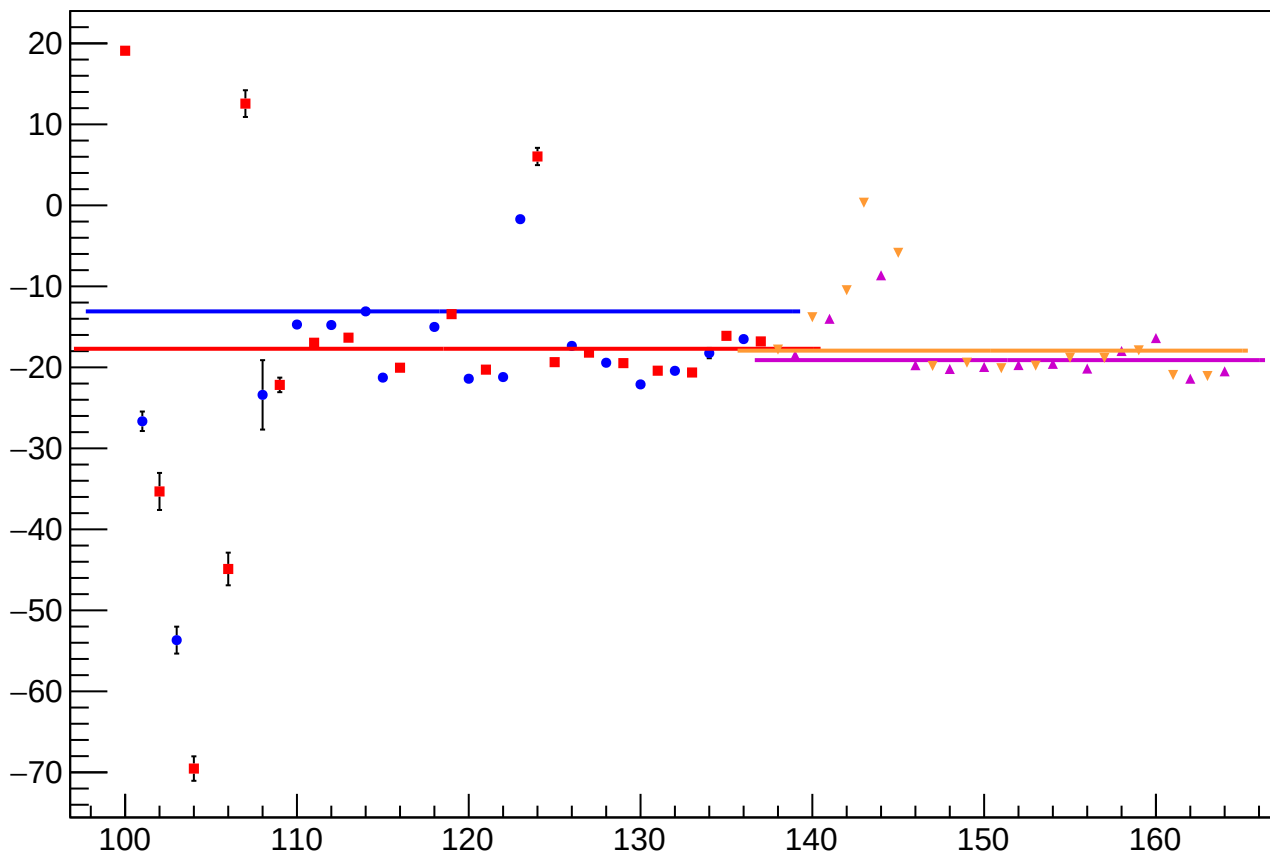
Right:  $0.419 \pm 0.000$   $\chi^2/\text{NDF}$ : 24797052003265142

In:  $0.420 \pm 0.000$   $\chi^2/\text{NDF}$ : 624773.3/29

Out:  $-45.259 \pm 0.000$   $\chi^2/\text{NDF}$ : 10301730.7/32

All:  $0.419 \pm 0.000$   $\chi^2/\text{NDF}$ : 24797052003265142

# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 30071.6/16

Left Out:  $-17.935 \pm 0.021$   $\chi^2/\text{NDF}$ : 42948.3/13

Right Out:  $-17.705 \pm 0.048$   $\chi^2/\text{NDF}$ : 14635.4/18

Left In:  $-19.107 \pm 0.020$   $\chi^2/\text{NDF}$ : 8582.1/12

Left:  $-18.562 \pm 0.014$   $\chi^2/\text{NDF}$ : 53158.2/26

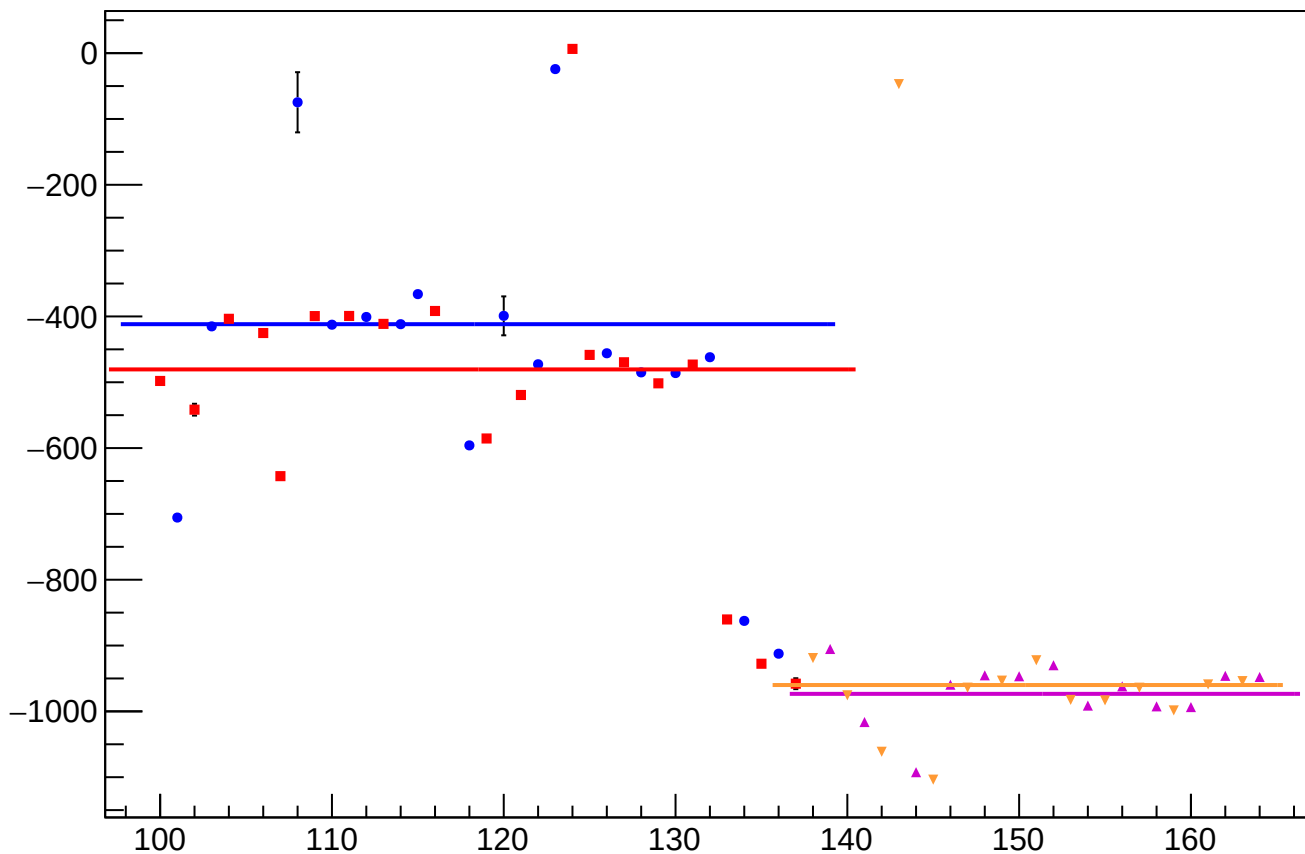
Right:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 53991.0/35

In:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 131017.0/29

Out:  $-17.898 \pm 0.019$   $\chi^2/\text{NDF}$ : 57603.0/32

All:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 249981.3/62

# dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 984974.9/16

Left Out: -959.980+/-0.209  $\chi^2/\text{NDF}$ : 271689.4/13

Right Out: -480.481+/-0.166  $\chi^2/\text{NDF}$ : 596807.0/18

Left In: -973.396+/-0.197  $\chi^2/\text{NDF}$ : 25288.6/12

Left: -967.083+/-0.143  $\chi^2/\text{NDF}$ : 299157.8/26

Right: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 1752754.1/35

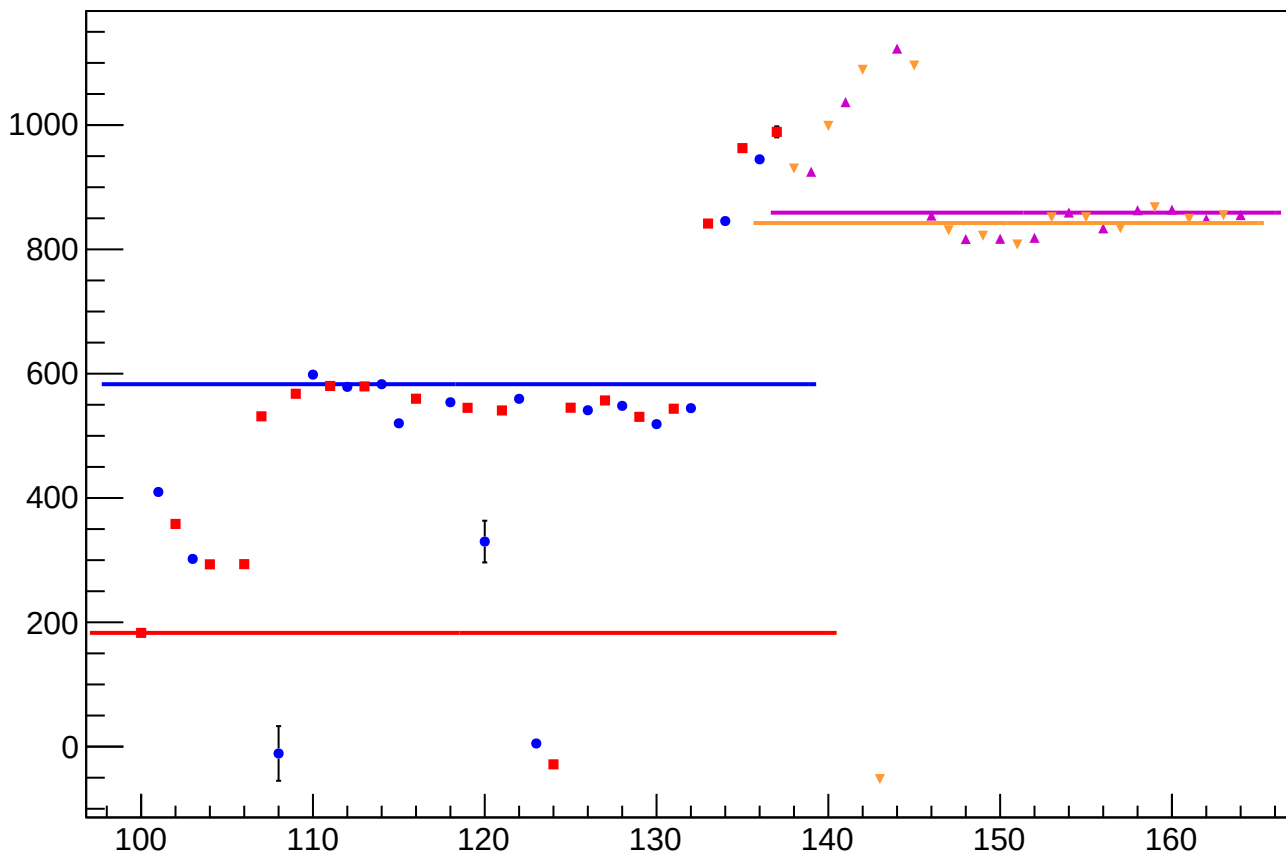
In: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 9128472.1/29

Out: -666.099+/-0.130  $\chi^2/\text{NDF}$ : 4091664.5/32

All: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 17042057.6/6



# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 583.096+/-0.000  $\chi^2/\text{NDF}$ : 1695243.6/16

Left Out: 842.399+/-0.165  $\chi^2/\text{NDF}$ : 369356.5/13

Right Out: 182.993+/-0.000  $\chi^2/\text{NDF}$ : 2983395.1/18

Left In: 859.083+/-0.162  $\chi^2/\text{NDF}$ : 86709.9/12

Left: 850.904+/-0.115  $\chi^2/\text{NDF}$ : 461290.5/26

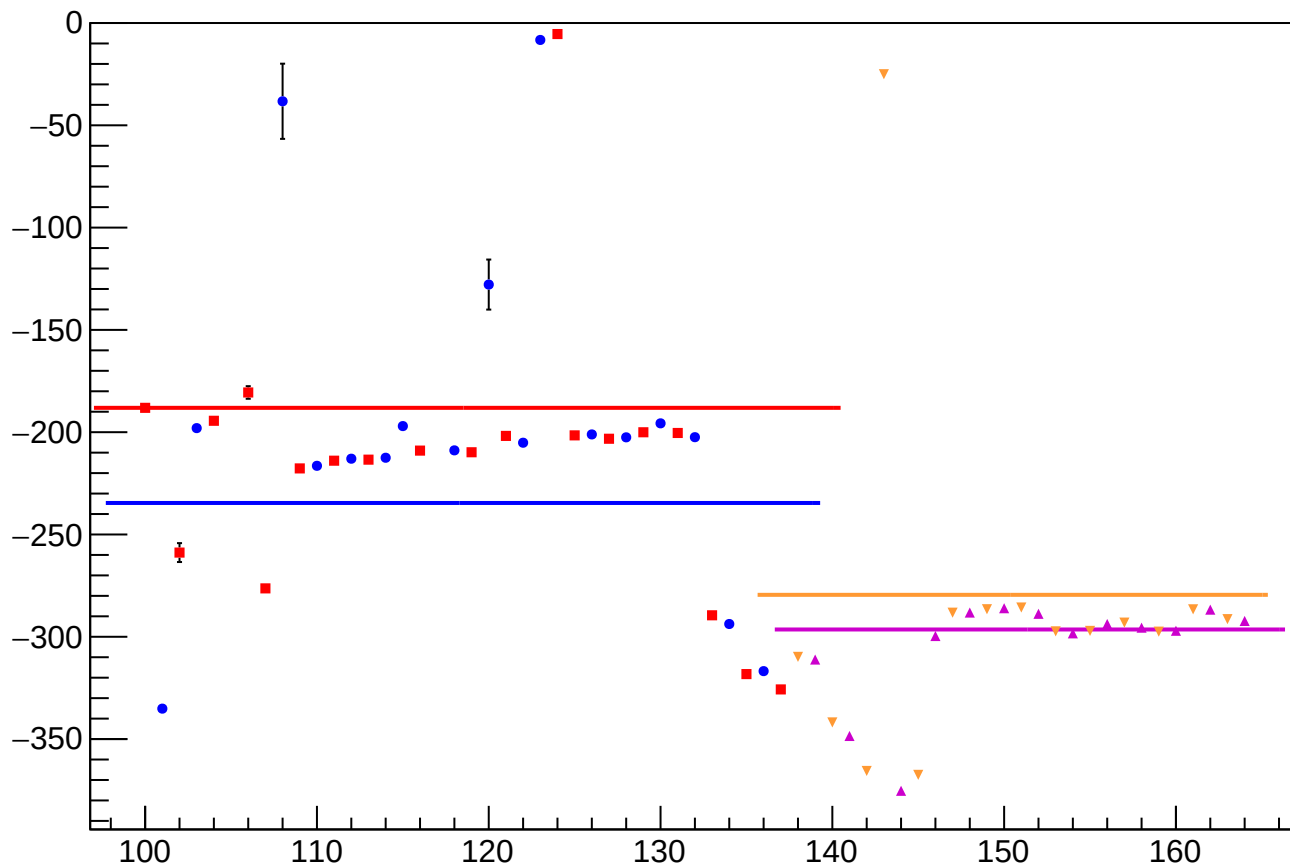
Right: 224.125+/-0.000  $\chi^2/\text{NDF}$ : 122237113759786

In: 583.096+/-0.000  $\chi^2/\text{NDF}$ : 4698112.5/29

Out: 182.993+/-0.000  $\chi^2/\text{NDF}$ : 19360613.9/32

All: 224.125+/-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:  $-279.498 \pm 0.027$   $\chi^2/\text{NDF}: 5596599.2/13$

Right Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 564190.5/18$

Left In:  $-296.437 \pm 0.027$   $\chi^2/\text{NDF}: 247792.9/12$

Left:  $-287.808 \pm 0.019$   $\chi^2/\text{NDF}: 6040458.4/26$

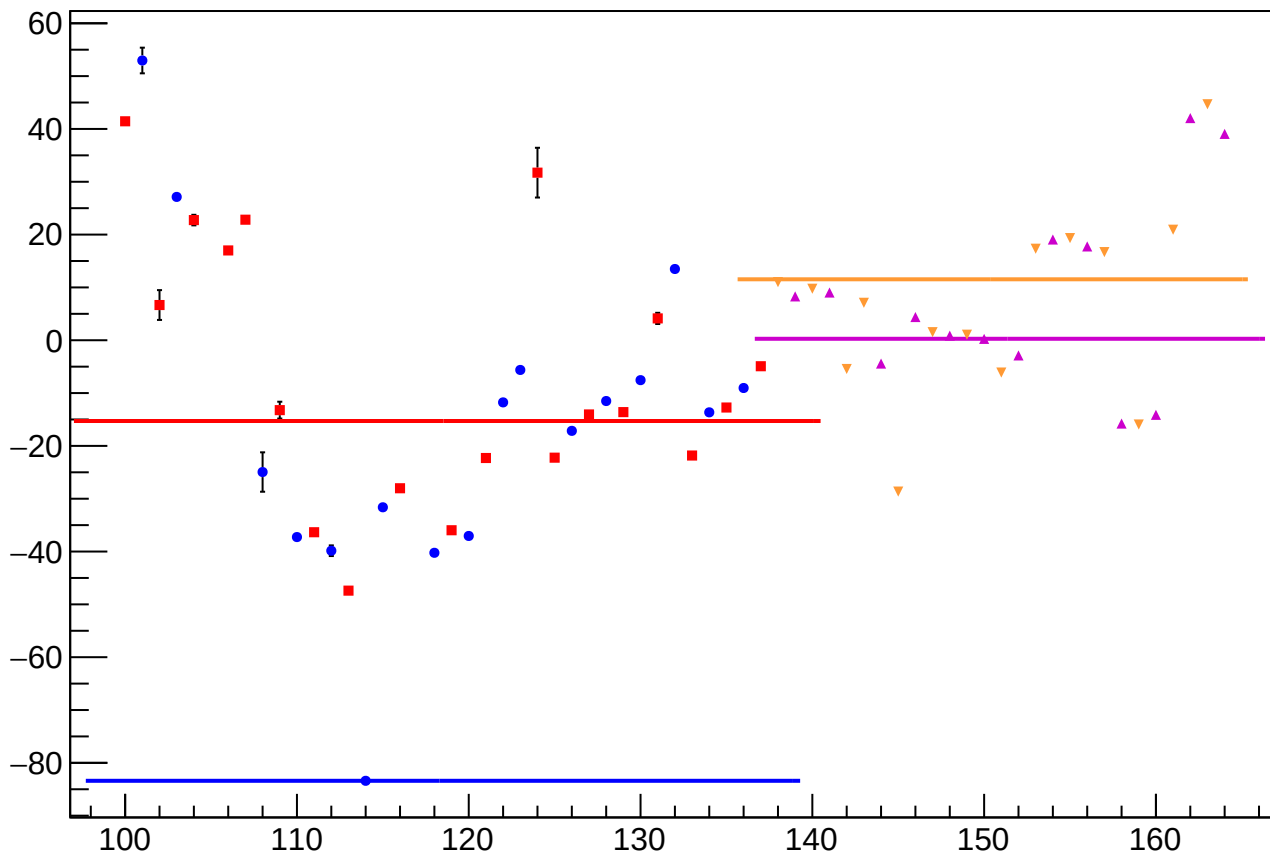
Right:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 2276022.3/35$

In:  $-284.730 \pm 0.025$   $\chi^2/\text{NDF}: 2253500.4/29$

Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 17798614.3/32$

All:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 35503280.5/6$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 1111851.8/16$

Left Out:  $11.537 \pm 0.029$   $\chi^2/\text{NDF}: 428852.2/13$

Right Out:  $-15.289 \pm 0.093$   $\chi^2/\text{NDF}: 45102.9/18$

Left In:  $0.276 \pm 0.023$   $\chi^2/\text{NDF}: 578807.1/12$

Left:  $4.617 \pm 0.018$   $\chi^2/\text{NDF}: 1099153.2/26$

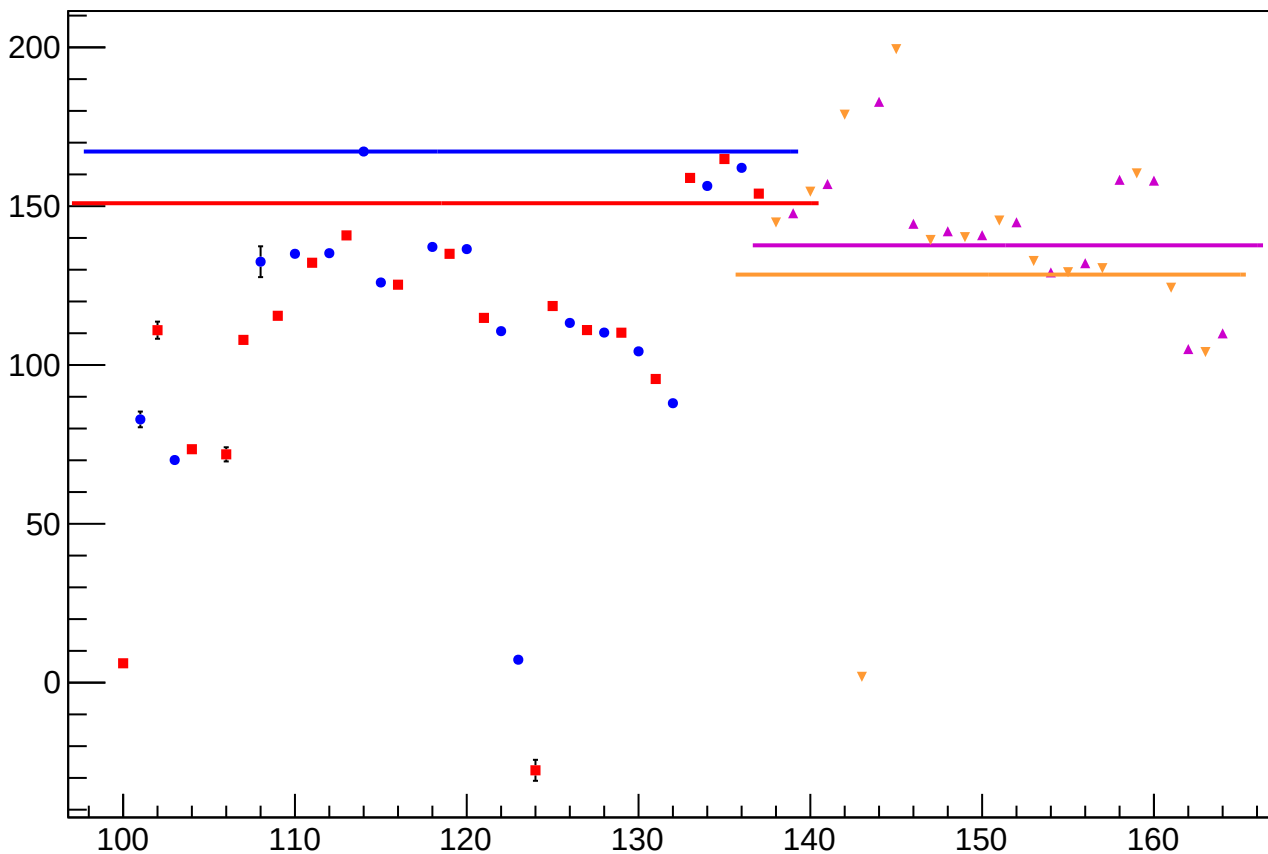
Right:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 1693721.3/35$

In:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 14796492.2/29$

Out:  $9.130 \pm 0.028$   $\chi^2/\text{NDF}: 549748.5/32$

All:  $-83.399 \pm 0.000$   $\chi^2/\text{NDF}: 26390072.0/62$

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 377544.7/16

Left Out: 128.465 $\pm$ 0.036  $\chi^2$ /NDF: 558569.8/13

Right Out: 150.930 $\pm$ 0.030  $\chi^2$ /NDF: 254077.1/18

Left In: 137.676 $\pm$ 0.030  $\chi^2$ /NDF: 351797.8/12

Left: 133.838 $\pm$ 0.023  $\chi^2$ /NDF: 949002.7/26

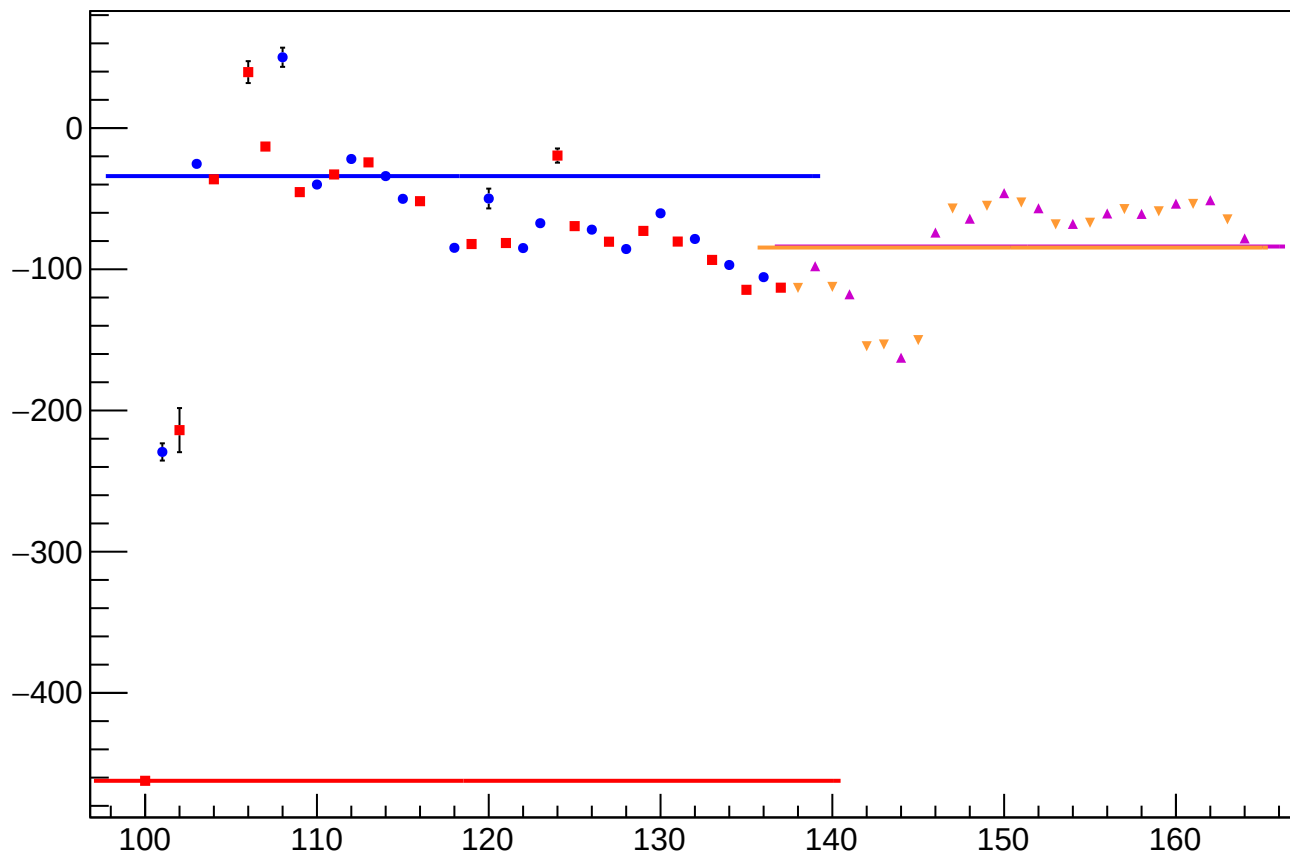
Right: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 927090.4/35

In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 1682417.7/29

Out: 141.679 $\pm$ 0.023  $\chi^2$ /NDF: 1044391.0/32

All: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 3962328.3/62

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 103608.4/16$

Left Out:  $-84.601 \pm 0.147$   $\chi^2/\text{NDF}: 57712.1/13$

Right Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 4616114.1/18$

Left In:  $-83.871 \pm 0.152$   $\chi^2/\text{NDF}: 57243.1/12$

Left:  $-84.249 \pm 0.106$   $\chi^2/\text{NDF}: 114967.0/26$

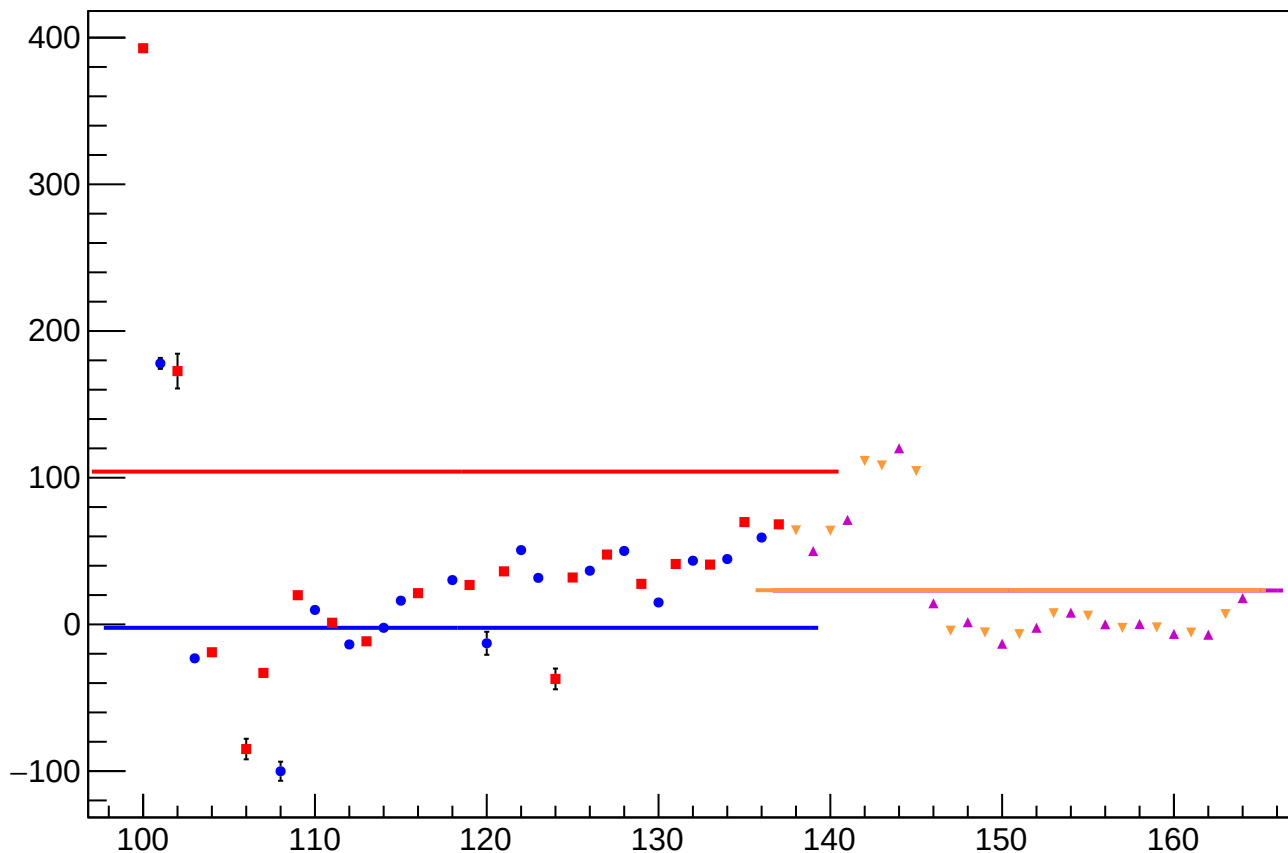
Right:  $-34.912 \pm 0.000$   $\chi^2/\text{NDF}: 849582565143584$

In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 267917.1/29$

Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 11258008.1/32$

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:  $23.315 \pm 0.127$   $\chi^2/\text{NDF}$ : 94794.0/13

Right Out:  $104.164 \pm 0.183$   $\chi^2/\text{NDF}$ : 779114.1/18

Left In:  $23.127 \pm 0.134$   $\chi^2/\text{NDF}$ : 86387.9/12

Left:  $23.226 \pm 0.092$   $\chi^2/\text{NDF}$ : 181182.9/26

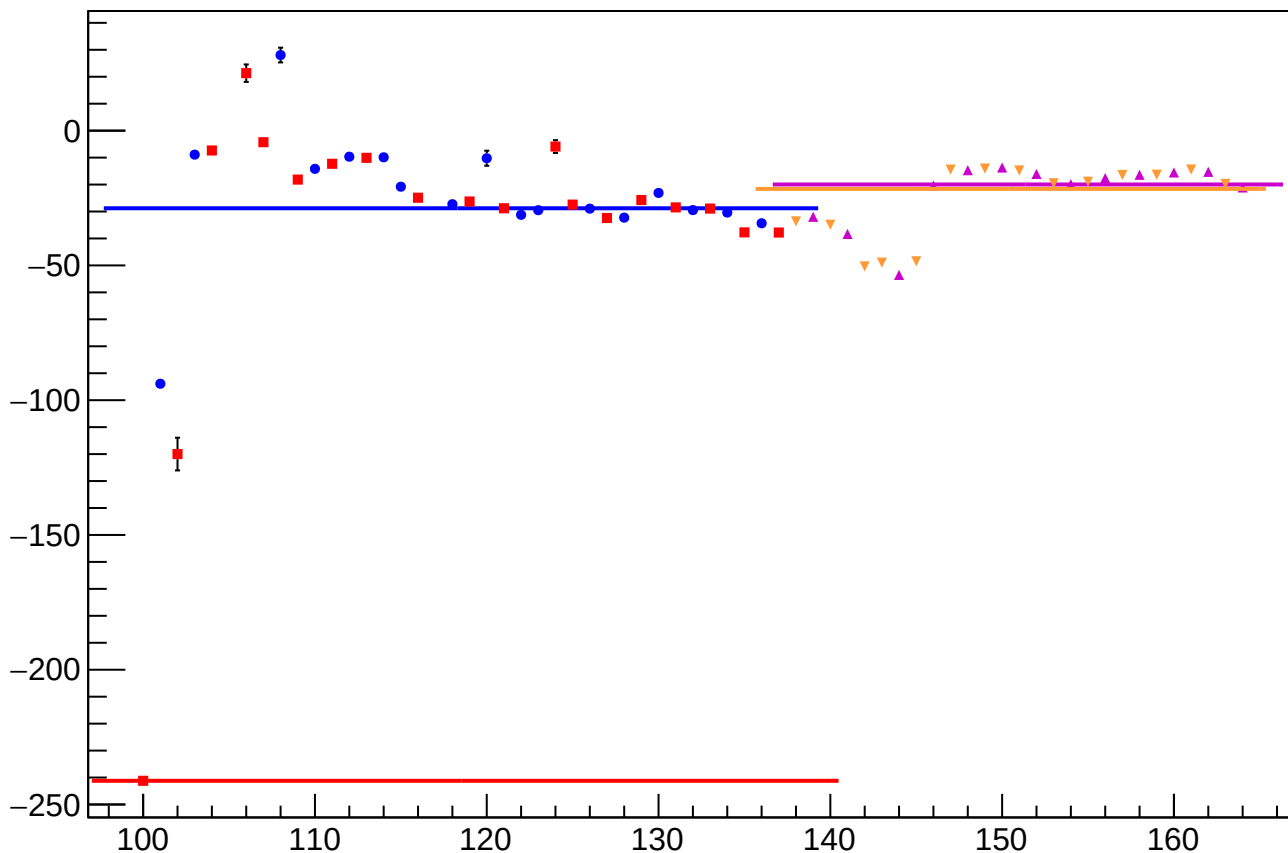
Right:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 1189122.1/35

In:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 194723.7/29

Out:  $49.650 \pm 0.105$   $\chi^2/\text{NDF}$ : 1005178.1/32

All:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}$ : 1446836.1/62

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.799 \pm 0.035$   $\chi^2/\text{NDF}: 49372.5/16$

Left Out:  $-21.608 \pm 0.015$   $\chi^2/\text{NDF}: 359017.9/13$

Right Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 31730104.8/18$

Left In:  $-19.974 \pm 0.018$   $\chi^2/\text{NDF}: 193140.8/12$

Left:  $-20.905 \pm 0.012$   $\chi^2/\text{NDF}: 557033.0/26$

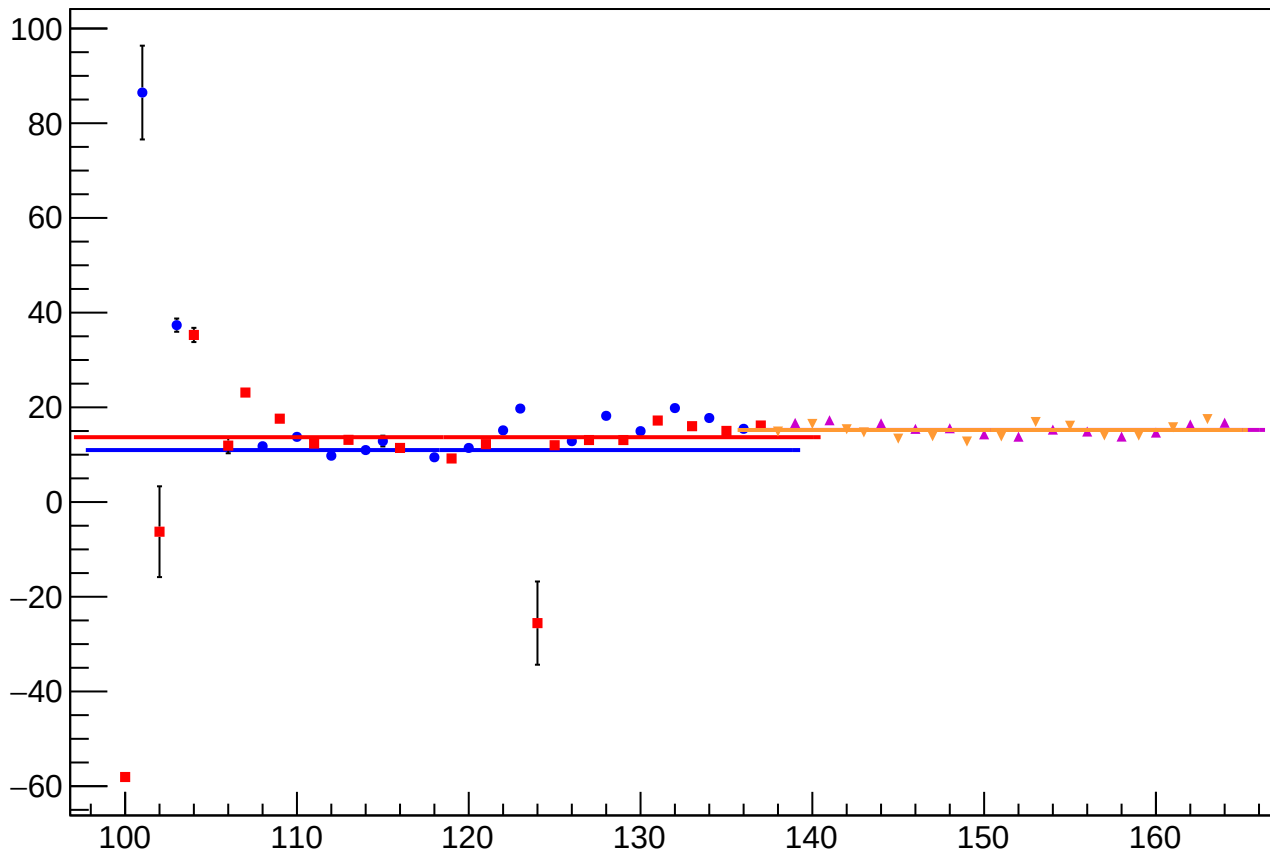
Right:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 67856010.6/35$

In:  $-21.737 \pm 0.016$   $\chi^2/\text{NDF}: 292349.5/29$

Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 236541795.1/32$

All:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 429591870.8/70$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $10.978 \pm 0.000$   $\chi^2/\text{NDF}: 26383.3/16$

Left Out:  $15.216 \pm 0.018$   $\chi^2/\text{NDF}: 6266.1/13$

Right Out:  $13.698 \pm 0.044$   $\chi^2/\text{NDF}: 38261.7/18$

Left In:  $15.232 \pm 0.017$   $\chi^2/\text{NDF}: 4115.1/12$

Left:  $15.224 \pm 0.012$   $\chi^2/\text{NDF}: 10381.6/26$

Right:  $10.978 \pm 0.000$   $\chi^2/\text{NDF}: 68468.7/35$

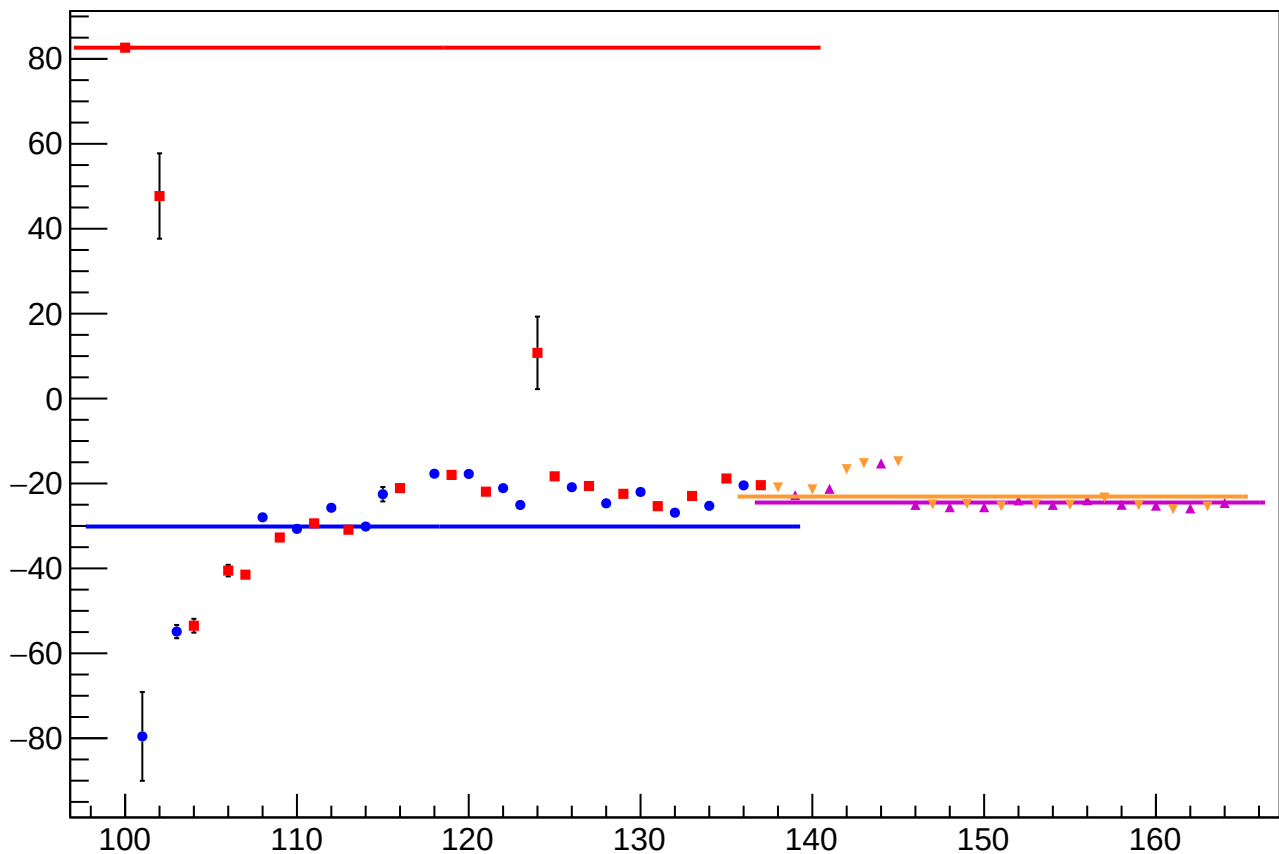
In:  $10.978 \pm 0.000$   $\chi^2/\text{NDF}: 93314.4/29$

Out:  $15.004 \pm 0.016$   $\chi^2/\text{NDF}: 45553.3/32$

All:  $10.978 \pm 0.000$   $\chi^2/\text{NDF}: 198930.1/62$



# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-30.139 \pm 0.000$   $\chi^2/\text{NDF}: 75823.3/16$

Left Out:  $-23.078 \pm 0.022$   $\chi^2/\text{NDF}: 26923.0/13$

Right Out:  $82.645 \pm 0.000$   $\chi^2/\text{NDF}: 4126300.9/18$

Left In:  $-24.485 \pm 0.020$   $\chi^2/\text{NDF}: 7867.2/12$

Left:  $-23.847 \pm 0.015$   $\chi^2/\text{NDF}: 37081.7/26$

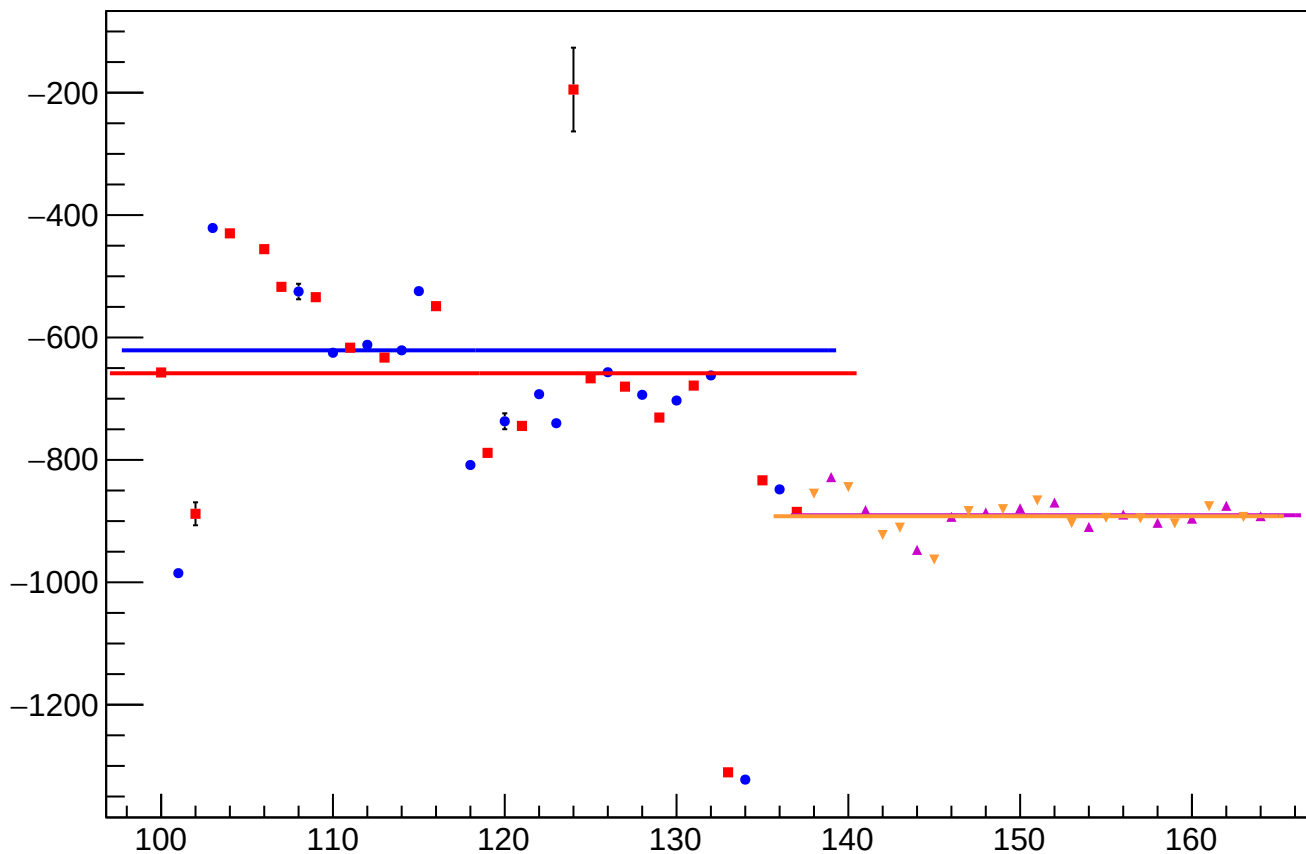
Right:  $-26.421 \pm 0.000$   $\chi^2/\text{NDF}: 365466407976619$

In:  $-30.139 \pm 0.000$   $\chi^2/\text{NDF}: 165233.9/29$

Out:  $82.645 \pm 0.000$   $\chi^2/\text{NDF}: 27833572.0/32$

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: -892.039+/-0.173  $\chi^2/\text{NDF}$ :12714.4/13

Right Out: -658.472+/-0.211  $\chi^2/\text{NDF}$ : 385288.9/18

Left In: -890.437+/-0.151  $\chi^2/\text{NDF}$ :14036.5/12

Left: -891.127+/-0.114  $\chi^2/\text{NDF}$ : 26799.7/26

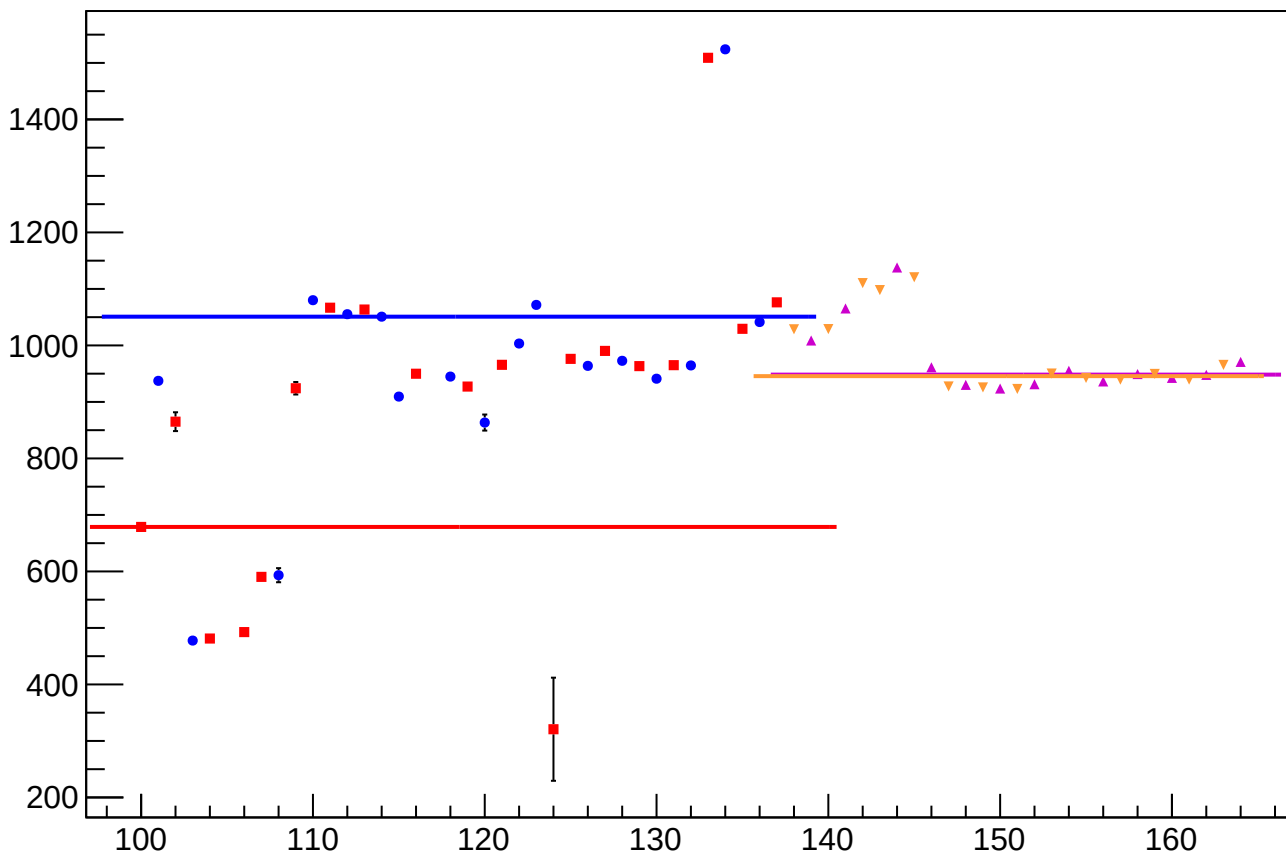
Right: -620.994+/-0.000  $\chi^2/\text{NDF}$ : 726578.9/35

In: -620.994+/-0.000  $\chi^2/\text{NDF}$ :3525223.9/29

Out: -797.911+/-0.134  $\chi^2/\text{NDF}$ :1132867.7/32

All: -620.994+/-0.000  $\chi^2/\text{NDF}$ : 6410535.6/62

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $1050.885 \pm 0.000$   $\chi^2/\text{NDF}: 296535.3/16$

Left Out:  $945.635 \pm 0.139$   $\chi^2/\text{NDF}: 67882.2/13$

Right Out:  $678.756 \pm 0.000$   $\chi^2/\text{NDF}: 1421757.7/18$

Left In:  $948.313 \pm 0.124$   $\chi^2/\text{NDF}: 74898.0/12$

Left:  $947.130 \pm 0.092$   $\chi^2/\text{NDF}: 142987.8/26$

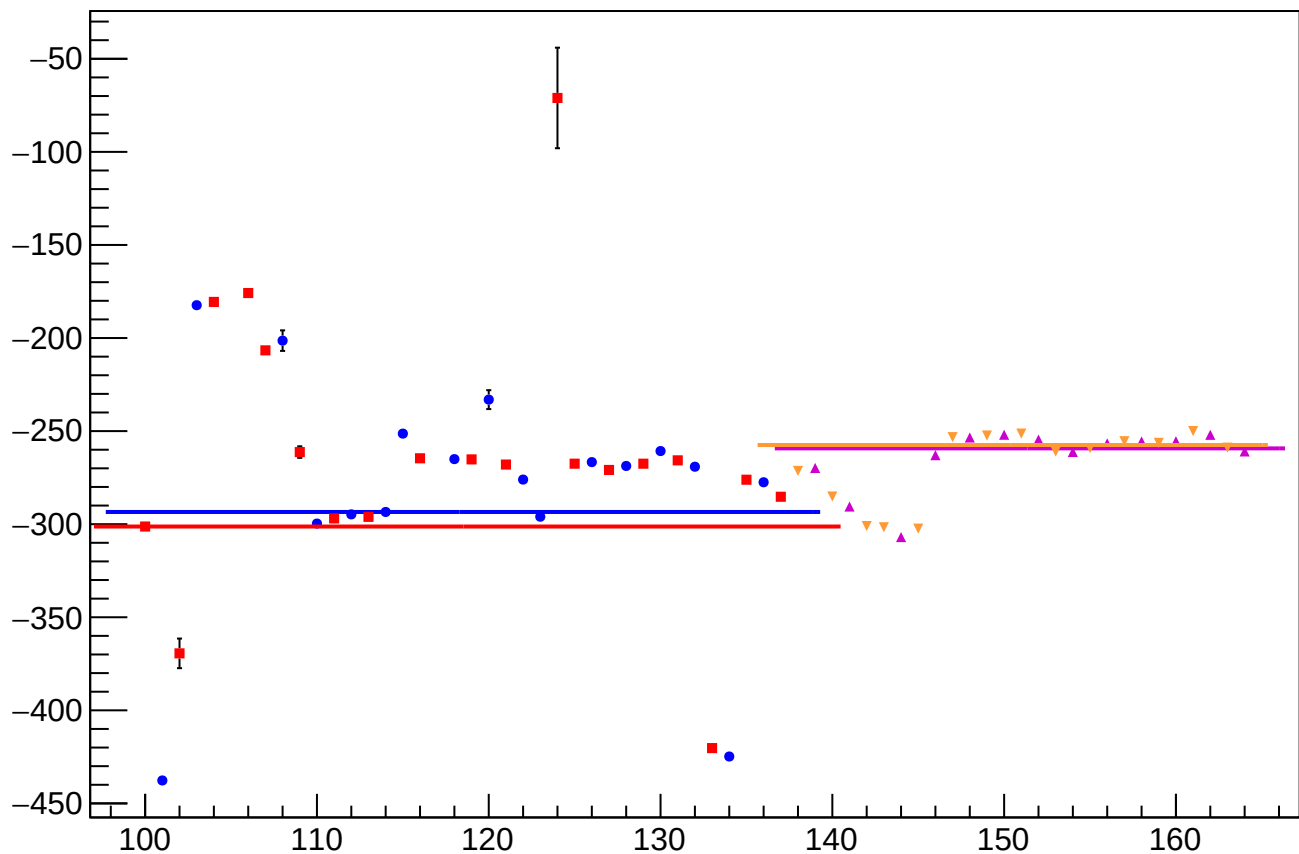
Right:  $717.012 \pm 0.000$   $\chi^2/\text{NDF}: 660888056800884$

In:  $1050.885 \pm 0.000$   $\chi^2/\text{NDF}: 1061060.9/29$

Out:  $678.756 \pm 0.000$   $\chi^2/\text{NDF}: 5181841.4/32$

All:  $717.012 \pm 0.000$   $\chi^2/\text{NDF}: 660888056800$

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In: -293.440+/-0.000  $\chi^2/\text{NDF}$ : 806123.9/16

Left Out: -257.476+/-0.023  $\chi^2/\text{NDF}$ :163030.9/13

Right Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ : 709937.5/18

Left In: -259.284+/-0.022  $\chi^2/\text{NDF}$ :186786.5/12

Left: -258.408+/-0.016  $\chi^2/\text{NDF}$ : 353108.0/26

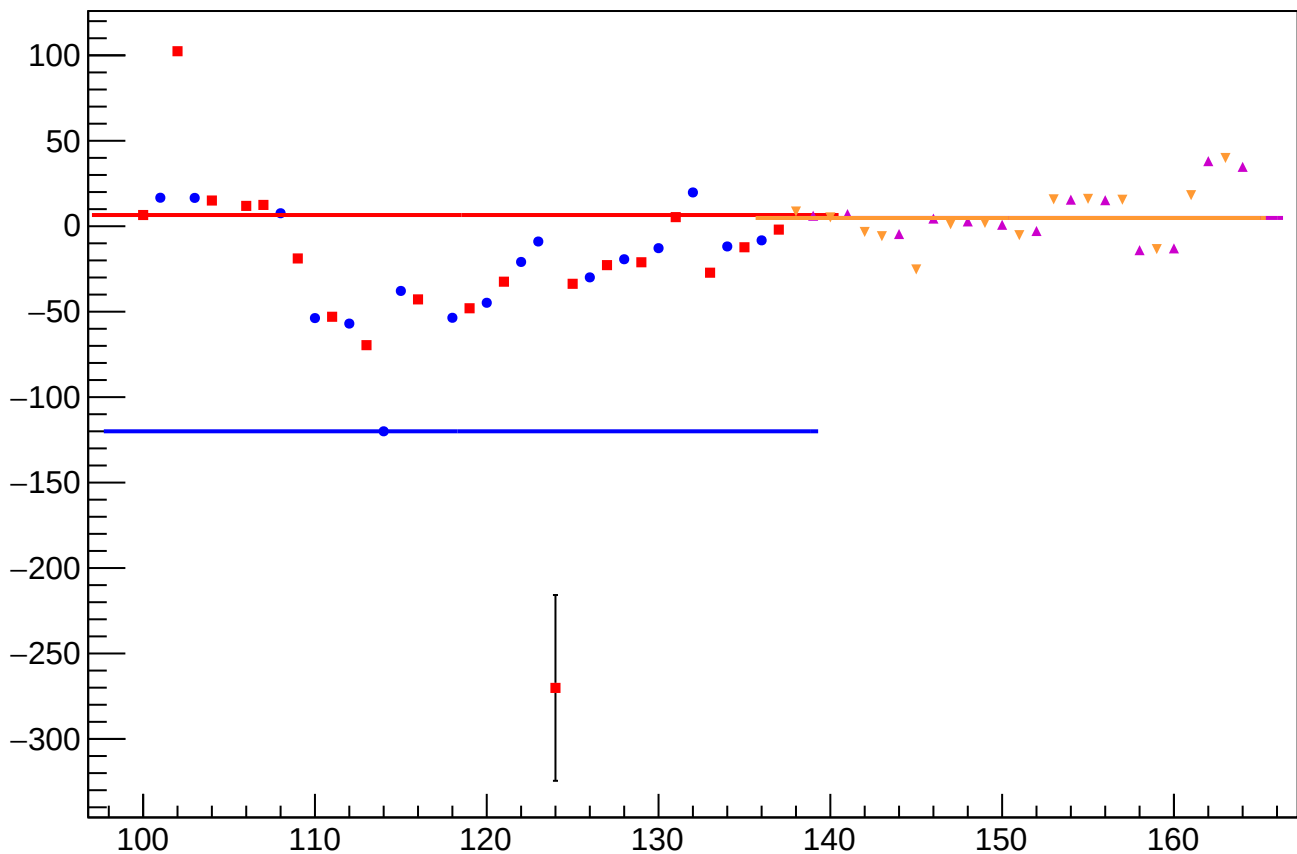
Right: -296.200+/-0.000  $\chi^2/\text{NDF}$ : 73444542243591

In: -293.440+/-0.000  $\chi^2/\text{NDF}$ :3416933.6/29

Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ :4615718.4/32

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:  $4.829 \pm 0.028$   $\chi^2/\text{NDF}: 314867.5/13$

Right Out:  $6.562 \pm 0.000$   $\chi^2/\text{NDF}: 110723.7/18$

Left In:  $4.857 \pm 0.023$   $\chi^2/\text{NDF}: 392566.1/12$

Left:  $4.846 \pm 0.018$   $\chi^2/\text{NDF}: 707434.3/26$

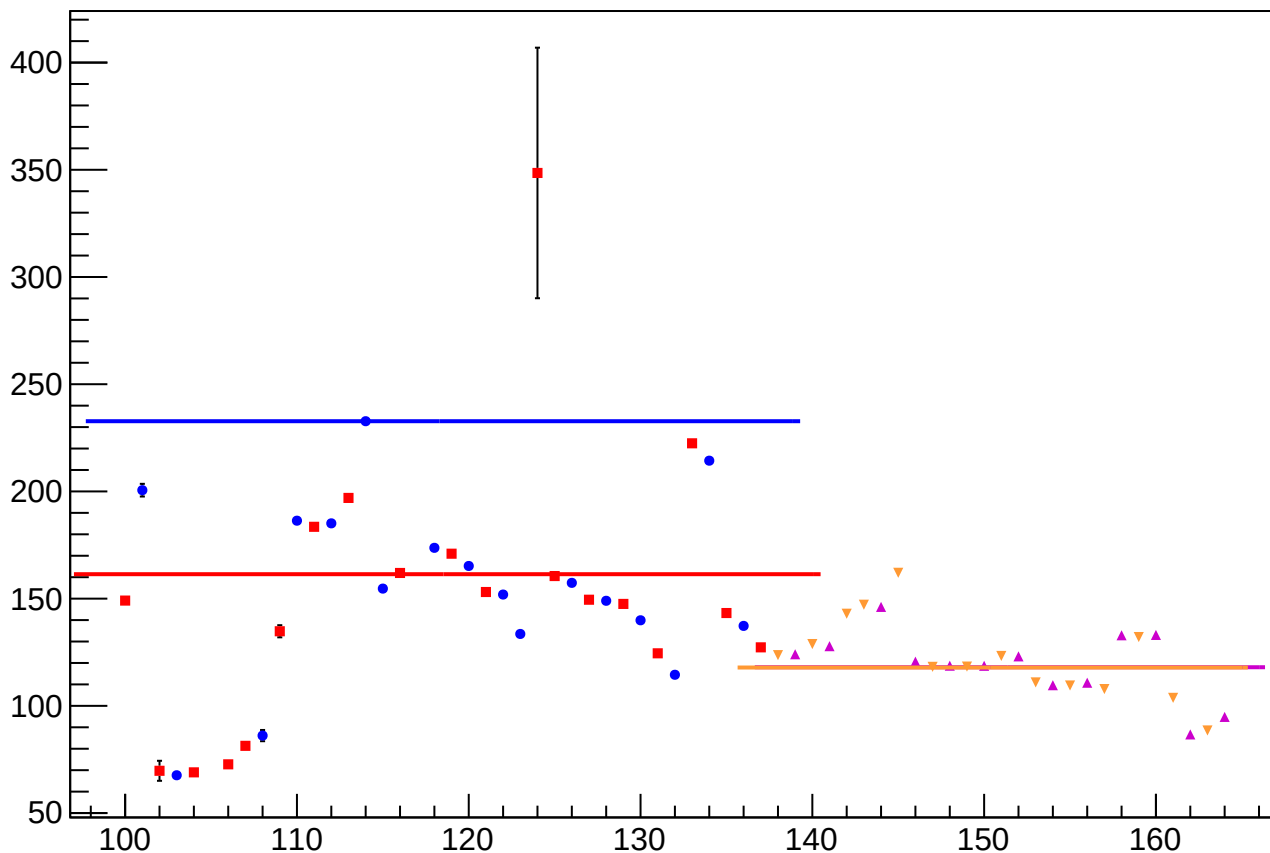
Right:  $6.462 \pm 0.000$   $\chi^2/\text{NDF}: 96855847891730169$

In:  $-119.993 \pm 0.000$   $\chi^2/\text{NDF}: 31991596.1/29$

Out:  $6.562 \pm 0.000$   $\chi^2/\text{NDF}: 429464.8/32$

All:  $6.462 \pm 0.000$   $\chi^2/\text{NDF}: 96855847891730$

# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



Right In: 232.747 $\pm$ 0.000  $\chi^2$ /NDF: 885111.3/16

Left Out: 117.877 $\pm$ 0.032  $\chi^2$ /NDF:183410.9/13

Right Out: 161.402 $\pm$ 0.086  $\chi^2$ /NDF: 158469.5/18

Left In: 118.010 $\pm$ 0.028  $\chi^2$ /NDF:258007.1/12

Left: 117.953 $\pm$ 0.021  $\chi^2$ /NDF: 441427.7/26

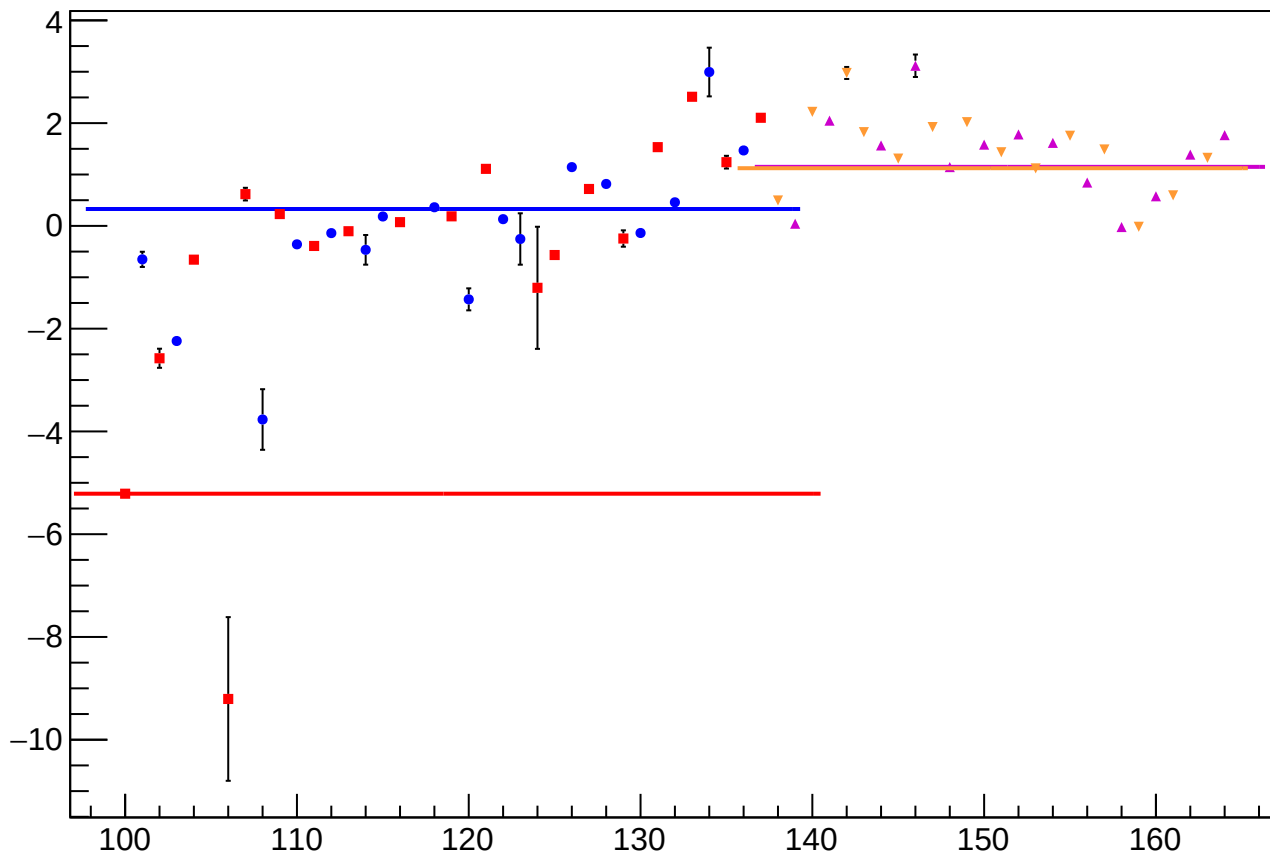
Right: 232.747 $\pm$ 0.000  $\chi^2$ /NDF: 1727131.7/35

In: 232.747 $\pm$ 0.000  $\chi^2$ /NDF:18127853.7/29

Out: 123.195 $\pm$ 0.030  $\chi^2$ /NDF:565201.4/32

All: 232.747 $\pm$ 0.000  $\chi^2$ /NDF: 31885123.1/62

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $0.329 \pm 0.013$   $\chi^2/\text{NDF}: 4100.2/16$

Left Out:  $1.123 \pm 0.012$   $\chi^2/\text{NDF}: 4752.8/13$

Right Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}: 500748.8/18$

Left In:  $1.149 \pm 0.009$   $\chi^2/\text{NDF}: 6335.1/12$

Left:  $1.140 \pm 0.007$   $\chi^2/\text{NDF}: 11091.1/26$

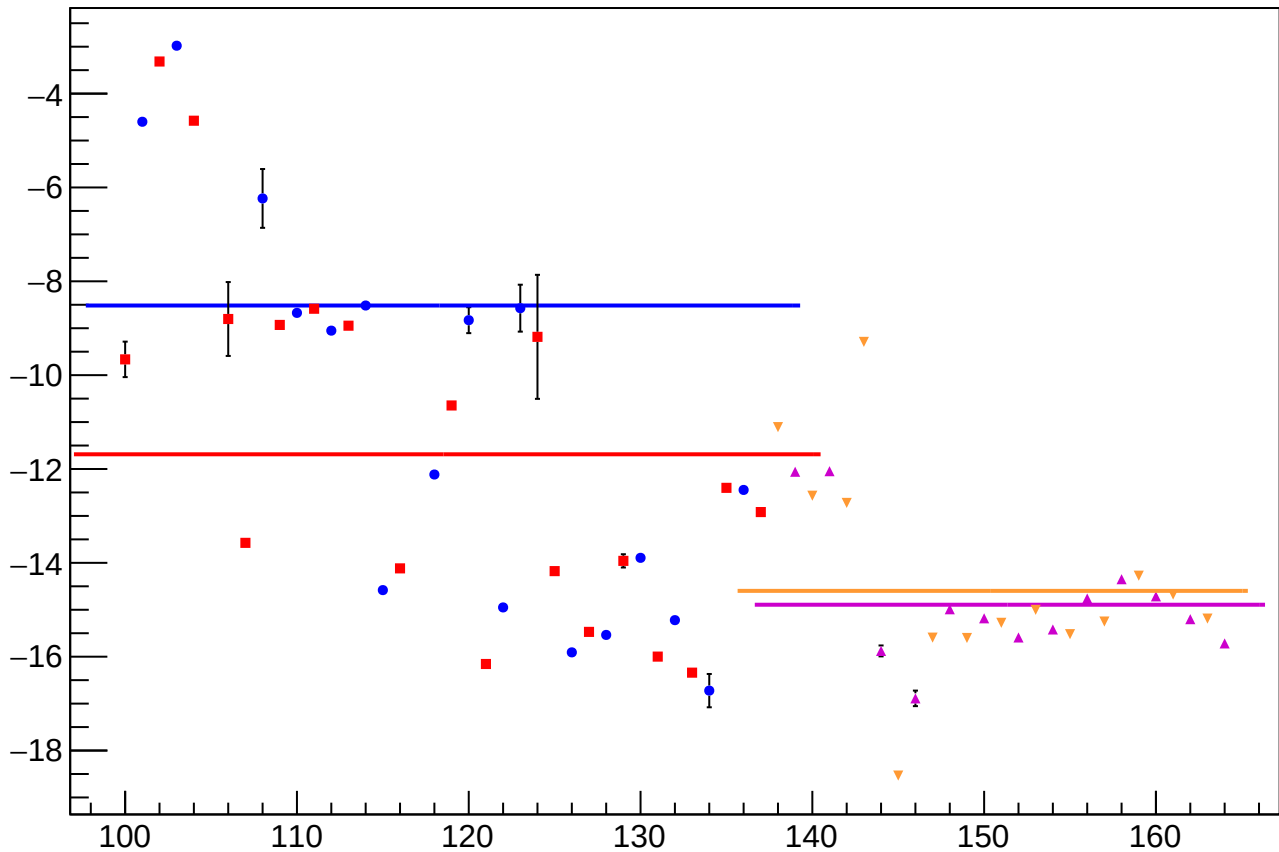
Right:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}: 690660.4/35$

In:  $0.891 \pm 0.007$   $\chi^2/\text{NDF}: 13225.1/29$

Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}: 790673.5/32$

All:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}: 1519470.8/62$

# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 245356.0/16

Left Out:  $-14.597 \pm 0.010$   $\chi^2/\text{NDF}$ : 28972.1/13

Right Out:  $-11.687 \pm 0.012$   $\chi^2/\text{NDF}$ : 108168.0/18

Left In:  $-14.893 \pm 0.008$   $\chi^2/\text{NDF}$ : 11820.3/12

Left:  $-14.778 \pm 0.006$   $\chi^2/\text{NDF}$ : 41351.1/26

Right:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 428263.5/35

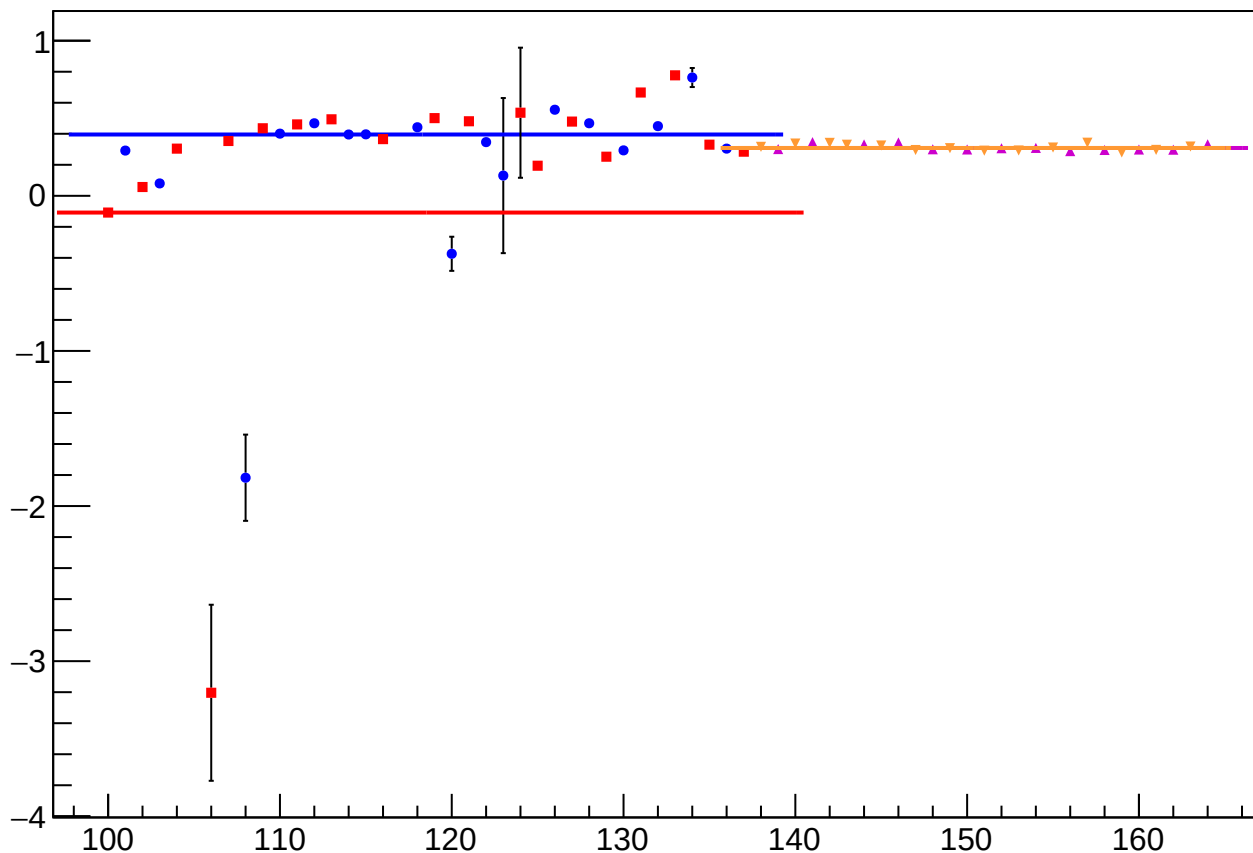
In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 928642.1/29

Out:  $-13.387 \pm 0.007$   $\chi^2/\text{NDF}$ : 173937.4/32

All:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 1526942.1/62



# dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.395 \pm 0.000$   $\chi^2/\text{NDF}$ : 10311.3/16

Left Out:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 3738.5/13

Right Out:  $-0.108 \pm 0.000$   $\chi^2/\text{NDF}$ : 128250.0/18

Left In:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 2343.3/12

Left:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 6081.9/26

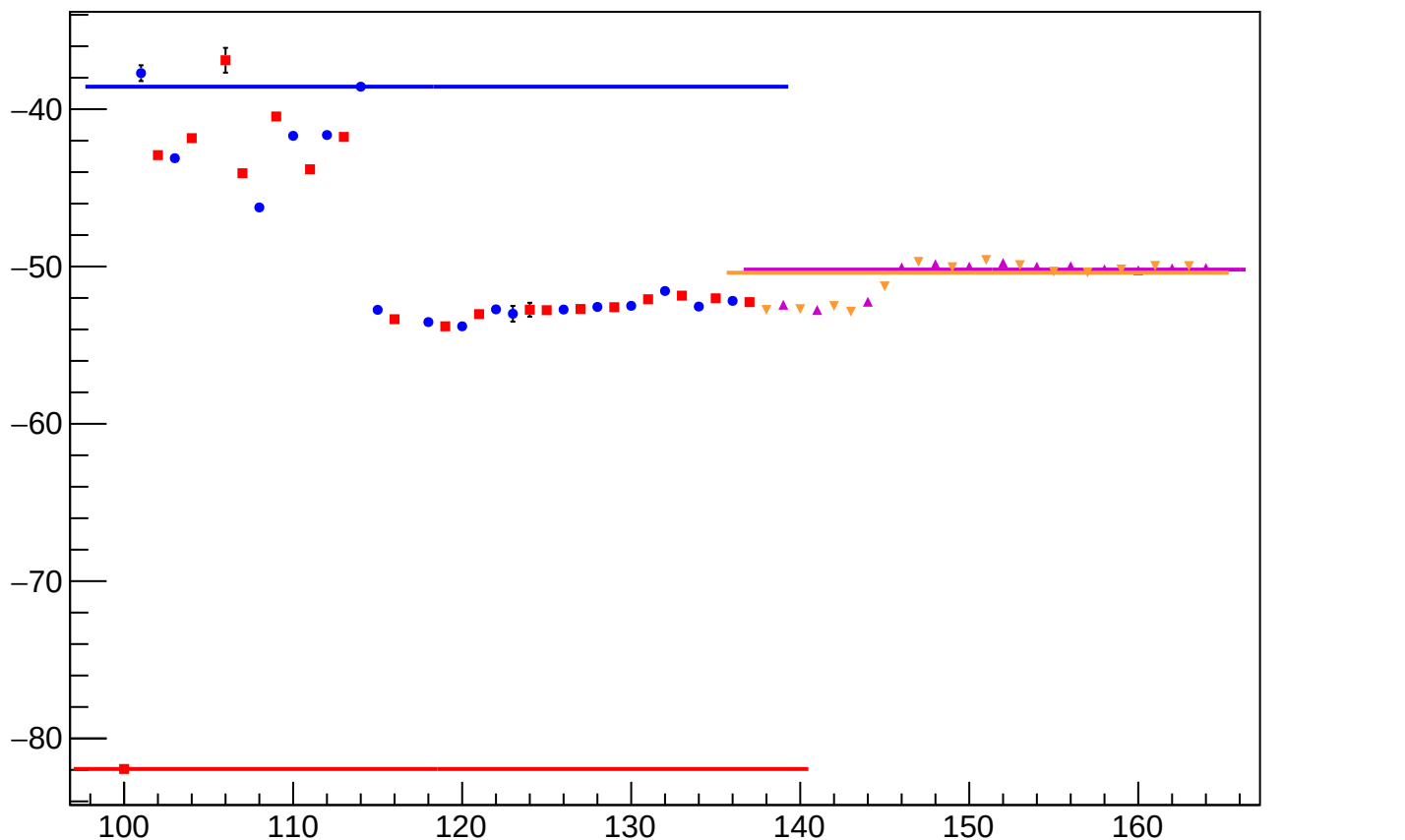
Right:  $-0.056 \pm 0.000$   $\chi^2/\text{NDF}$ : 8110213490538816

In:  $0.395 \pm 0.000$   $\chi^2/\text{NDF}$ : 95146.0/29

Out:  $-0.108 \pm 0.000$   $\chi^2/\text{NDF}$ : 1895808.5/32

All:  $-0.056 \pm 0.000$   $\chi^2/\text{NDF}$ : 8110213490538

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In: -38.570+/-0.000  $\chi^2/\text{NDF}$ : 12311757.7/16

Left Out: -50.394+/-0.002  $\chi^2/\text{NDF}$ : 241725.7/13

Right Out: -81.941+/-0.000  $\chi^2/\text{NDF}$ : 120351577.0/18

Left In: -50.197+/-0.002  $\chi^2/\text{NDF}$ : 155344.9/12

Left: -50.273+/-0.001  $\chi^2/\text{NDF}$ : 403076.9/26

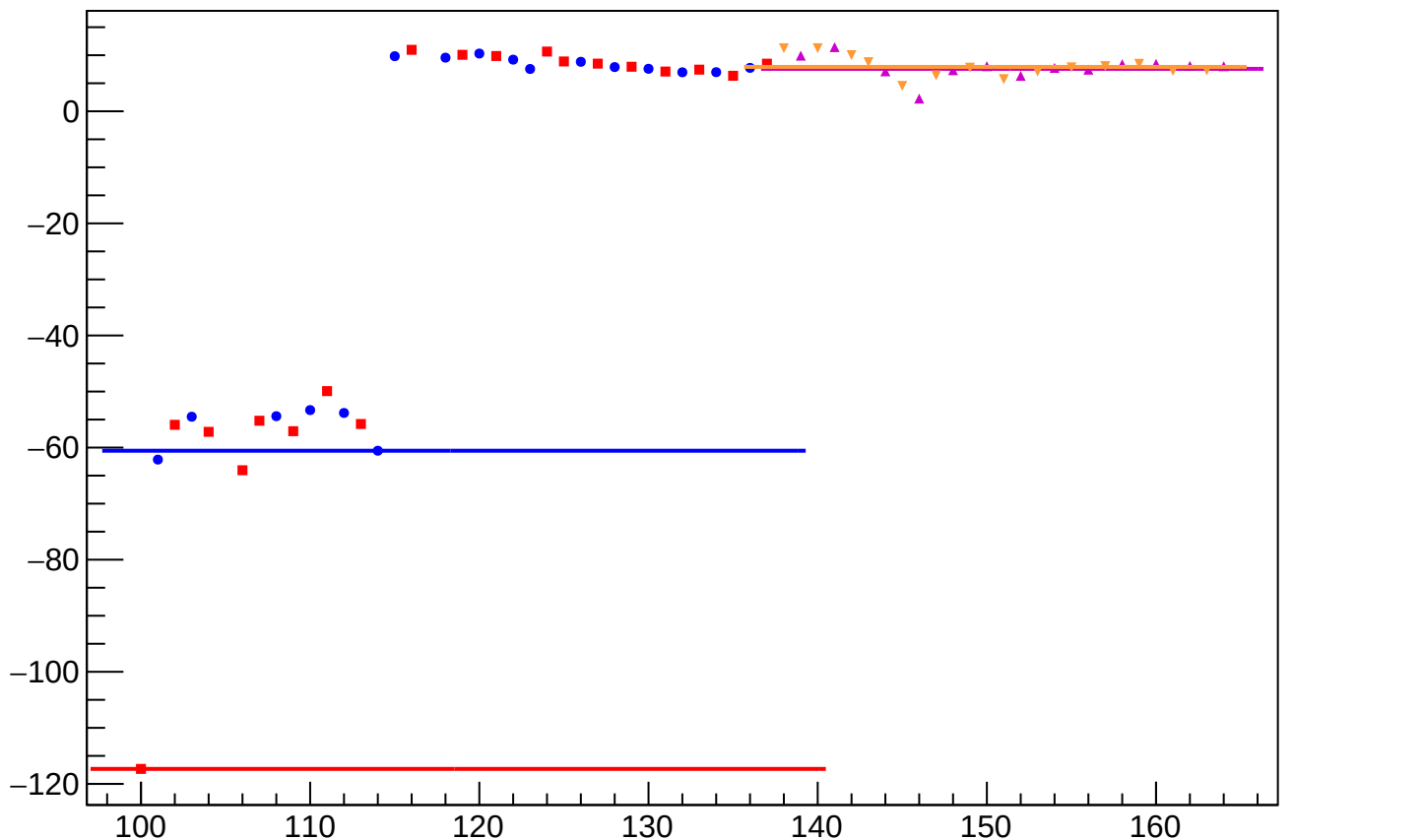
Right: -43.774+/-0.000  $\chi^2/\text{NDF}$ : 491816286535349

In: -38.570+/-0.000  $\chi^2/\text{NDF}$ : 66561180.5/29

Out: -81.941+/-0.000  $\chi^2/\text{NDF}$ : 371035158.4/32

All: -43.774+/-0.000  $\chi^2/\text{NDF}$ : 491816286535

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-60.561 \pm 0.000$   $\chi^2/\text{NDF}: 179199478.6/16$

Left Out:  $7.917 \pm 0.005$   $\chi^2/\text{NDF}: 74695.7/13$

Right Out:  $-117.324 \pm 0.000$   $\chi^2/\text{NDF}: 218537776.8/18$

Left In:  $7.569 \pm 0.004$   $\chi^2/\text{NDF}: 100034.5/12$

Left:  $7.706 \pm 0.003$   $\chi^2/\text{NDF}: 178196.2/26$

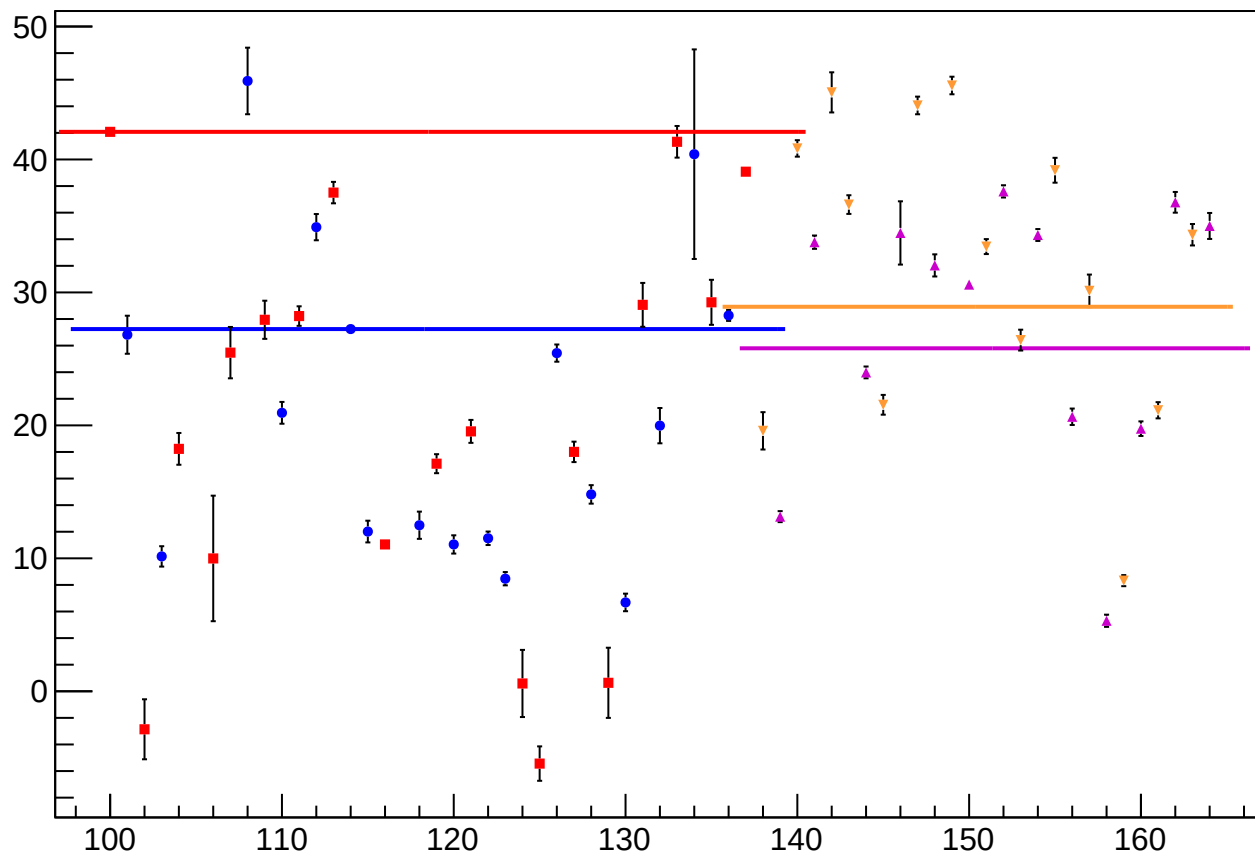
Right:  $-91.839 \pm 0.000$   $\chi^2/\text{NDF}: 429805156128459$

In:  $-60.561 \pm 0.000$   $\chi^2/\text{NDF}: 518394217.1/29$

Out:  $-117.324 \pm 0.000$   $\chi^2/\text{NDF}: 960403775.9/32$

All:  $-91.839 \pm 0.000$   $\chi^2/\text{NDF}: 429805156128$

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF: 5492.1/16

Left Out: 28.921 $\pm$ 0.187  $\chi^2$ /NDF:4741.4/13

Right Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF: 38215.8/18

Left In: 25.797 $\pm$ 0.143  $\chi^2$ /NDF:4983.1/12

Left: 26.945 $\pm$ 0.113  $\chi^2$ /NDF: 9900.6/26

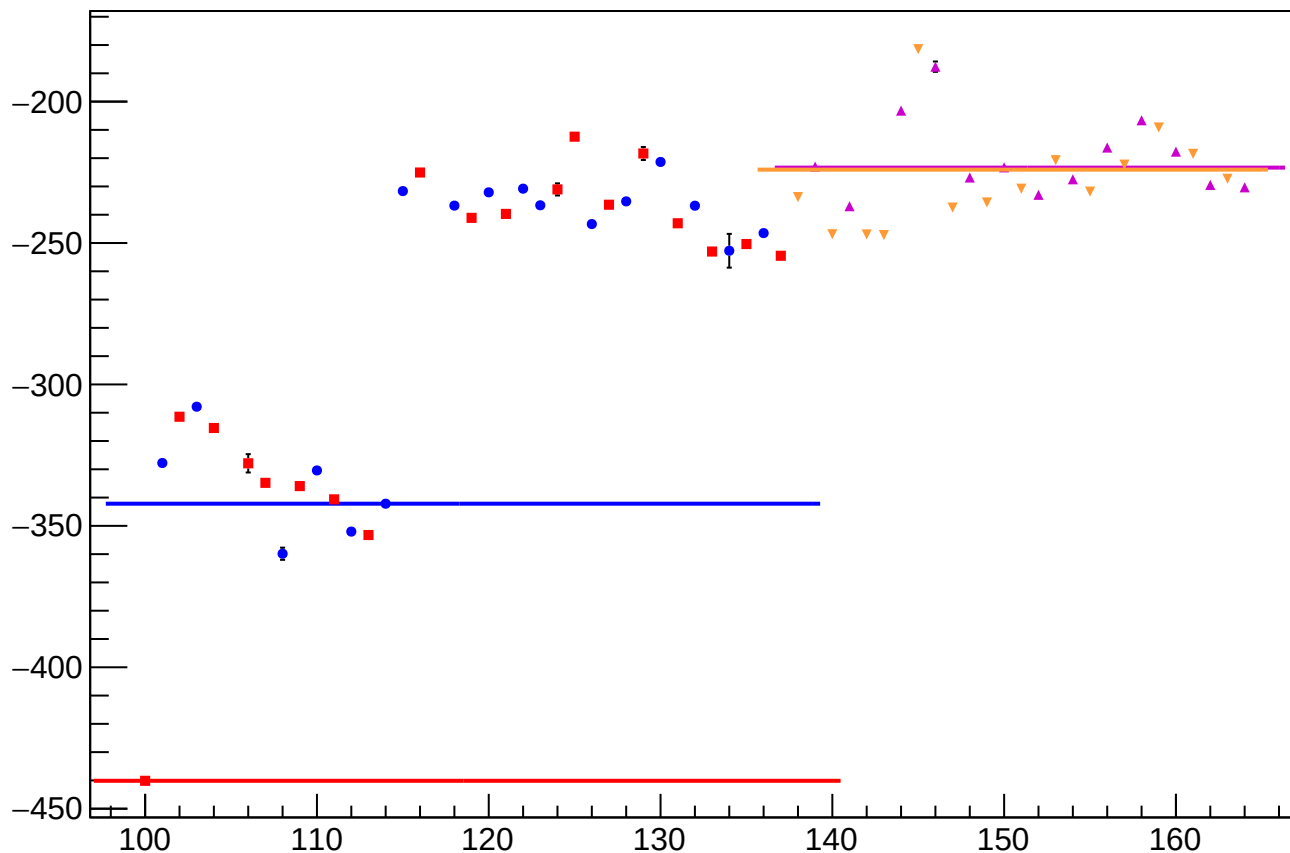
Right: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606931

In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF:10578.0/29

Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF:47893.3/32

All: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In: -342.165+/-0.000  $\chi^2/\text{NDF}$ : 307562.3/16

Left Out: -224.056+/-0.152  $\chi^2/\text{NDF}$ :13479.3/13

Right Out: -440.136+/-0.000  $\chi^2/\text{NDF}$ : 6836158.8/18

Left In: -223.339+/-0.123  $\chi^2/\text{NDF}$ :4849.2/12

Left: -223.622+/-0.095  $\chi^2/\text{NDF}$ : 18342.0/26

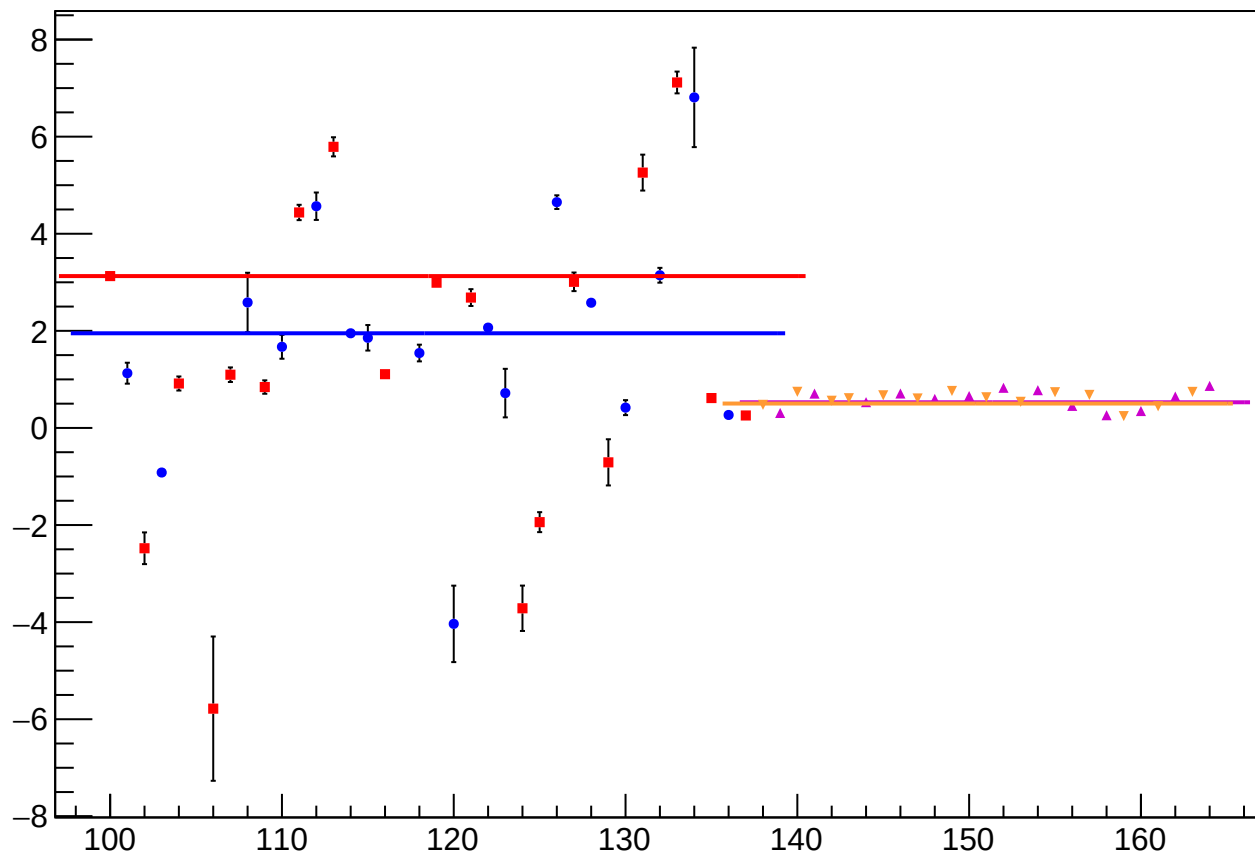
Right: -376.743+/-0.000  $\chi^2/\text{NDF}$ : 11532667116612

In: -342.165+/-0.000  $\chi^2/\text{NDF}$ :1252930.4/29

Out: -440.136+/-0.000  $\chi^2/\text{NDF}$ :8870187.0/32

All: -376.743+/-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:  $0.503 \pm 0.002$   $\chi^2/\text{NDF}$ : 7885.0/13

Right Out:  $3.128 \pm 0.000$   $\chi^2/\text{NDF}$ : 24965.4/18

Left In:  $0.529 \pm 0.002$   $\chi^2/\text{NDF}$ : 13185.8/12

Left:  $0.518 \pm 0.002$   $\chi^2/\text{NDF}$ : 21142.7/26

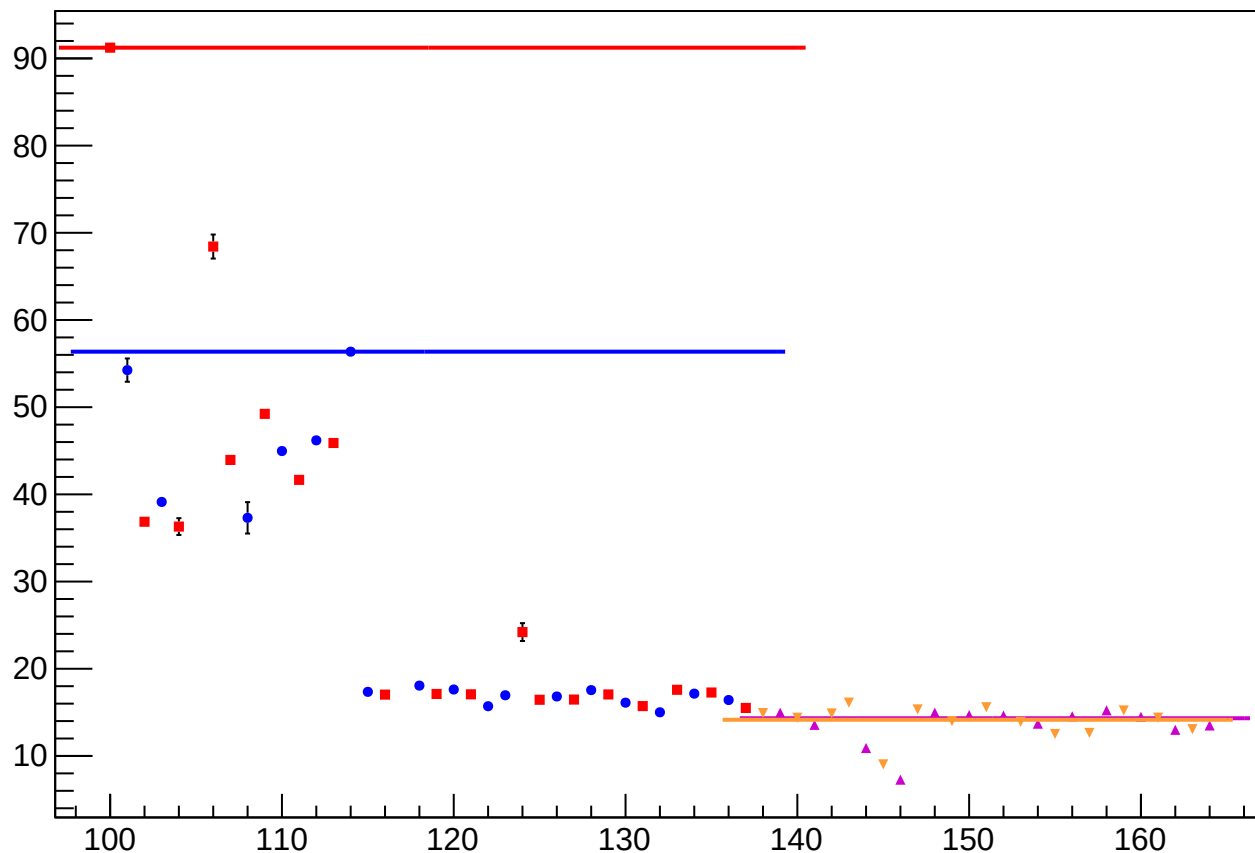
Right:  $2.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 27324586822992261

In:  $1.950 \pm 0.000$   $\chi^2/\text{NDF}$ : 595524.4/29

Out:  $3.128 \pm 0.000$   $\chi^2/\text{NDF}$ : 1278710.8/32

All:  $2.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 27324586822992

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In: 56.366 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 8017656.1/16

Left Out: 14.149 $\pm$ 0.010  $\chi^2/\text{NDF}$ :49492.0/13

Right Out: 91.232 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 17922403.4/18

Left In: 14.324 $\pm$ 0.010  $\chi^2/\text{NDF}$ :8754.7/12

Left: 14.237 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 58411.2/26

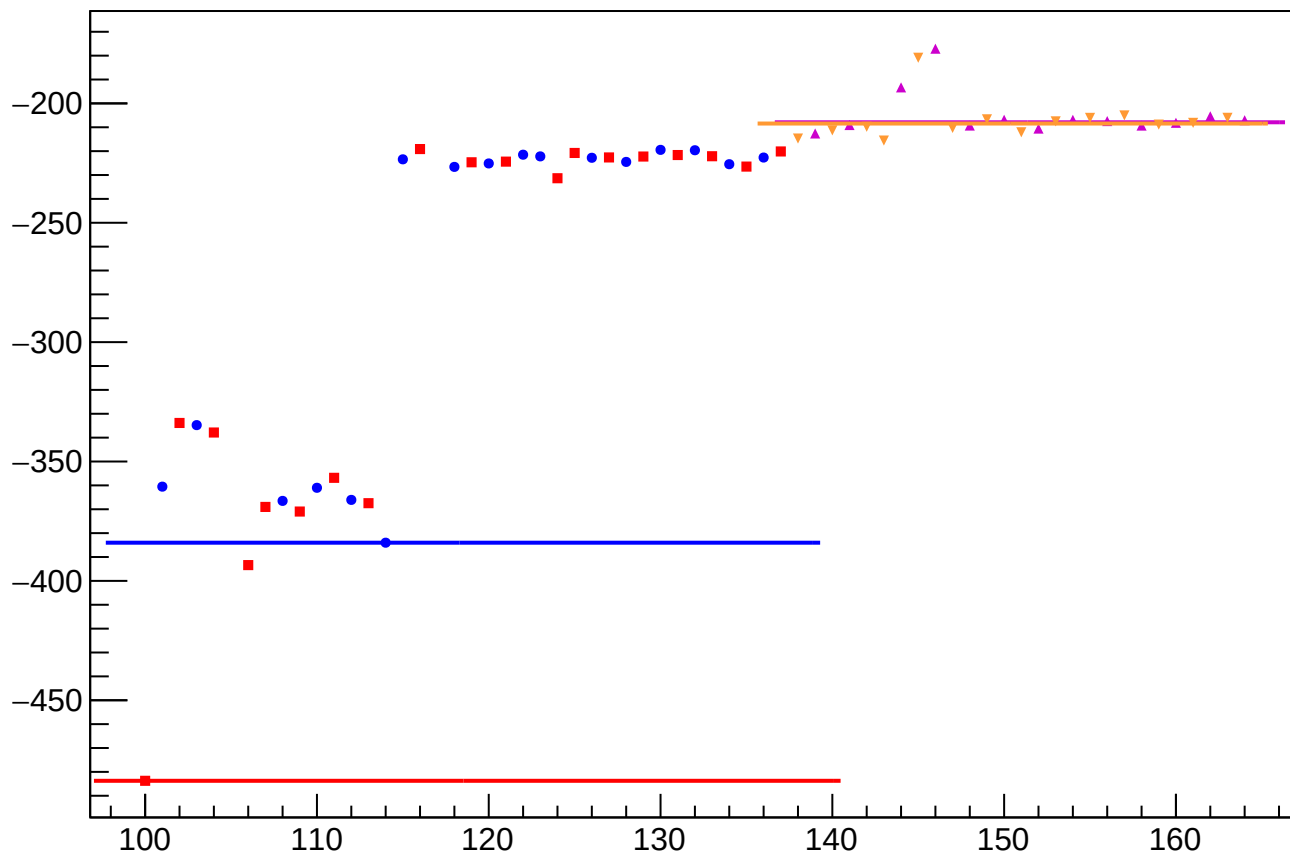
Right: 60.550 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3178336126771154

In: 56.366 $\pm$ 0.000  $\chi^2/\text{NDF}$ :27251895.5/29

Out: 91.232 $\pm$ 0.000  $\chi^2/\text{NDF}$ :81311547.3/32

All: 60.550 $\pm$ 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:  $-208.436 \pm 0.019$   $\chi^2/\text{NDF}: 75128.7/13$

Right Out:  $-483.735 \pm 0.000$   $\chi^2/\text{NDF}: 27646775.0/18$

Left In:  $-207.908 \pm 0.018$   $\chi^2/\text{NDF}: 15952.2/12$

Left:  $-208.152 \pm 0.013$   $\chi^2/\text{NDF}: 91494.1/26$

Right:  $-452.390 \pm 0.000$   $\chi^2/\text{NDF}: 58047820362383$

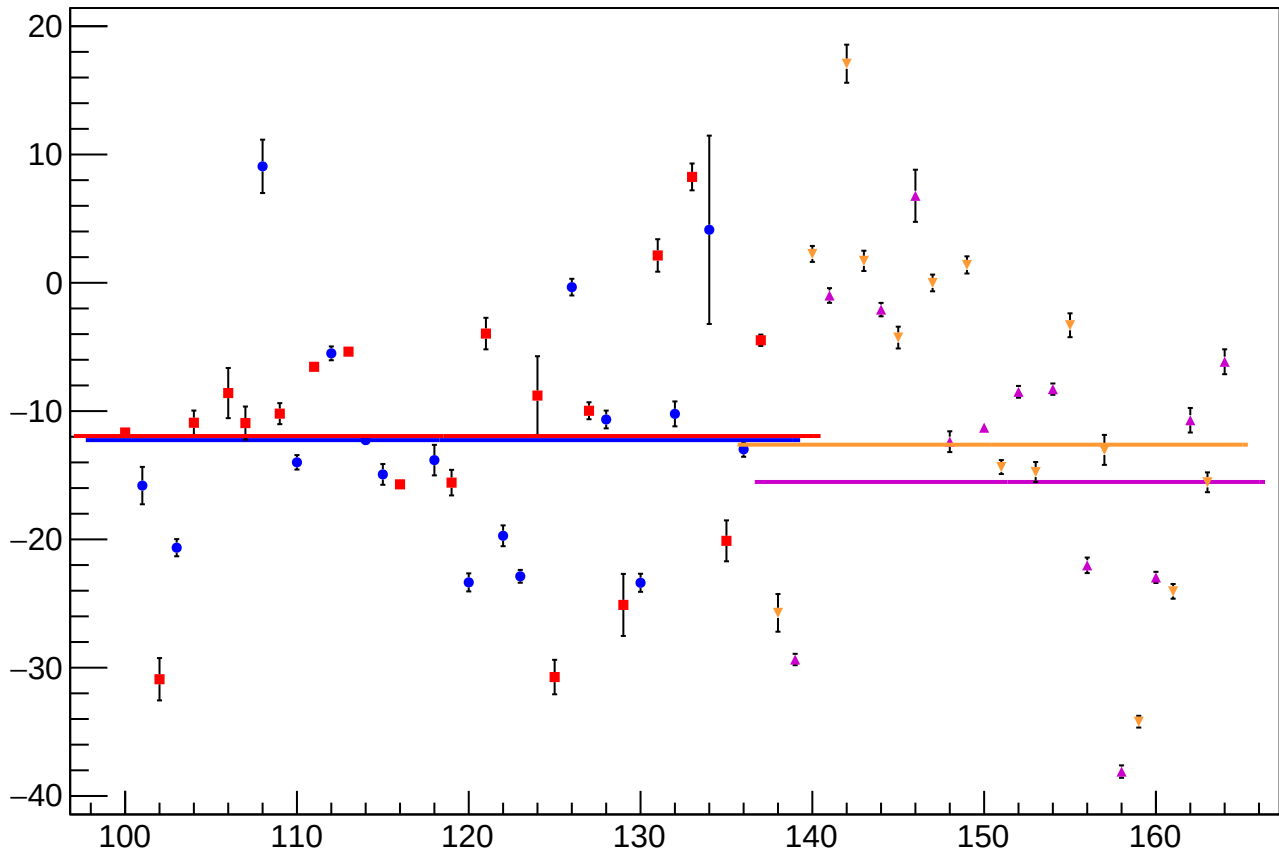
In:  $-384.003 \pm 0.000$   $\chi^2/\text{NDF}: 116469027.0/29$

Out:  $-483.735 \pm 0.000$   $\chi^2/\text{NDF}: 236433119.9/32$

All:  $-452.390 \pm 0.000$   $\chi^2/\text{NDF}: 58047820362$



# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



Right In: -12.264 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1844.2/16

Left Out: -12.618 $\pm$ 0.191  $\chi^2/\text{NDF}$ : 5033.0/13

Right Out: -11.943 $\pm$ 0.108  $\chi^2/\text{NDF}$ : 2527.1/18

Left In: -15.524 $\pm$ 0.147  $\chi^2/\text{NDF}$ : 5758.8/12

Left: -14.439 $\pm$ 0.117  $\chi^2/\text{NDF}$ : 10937.1/26

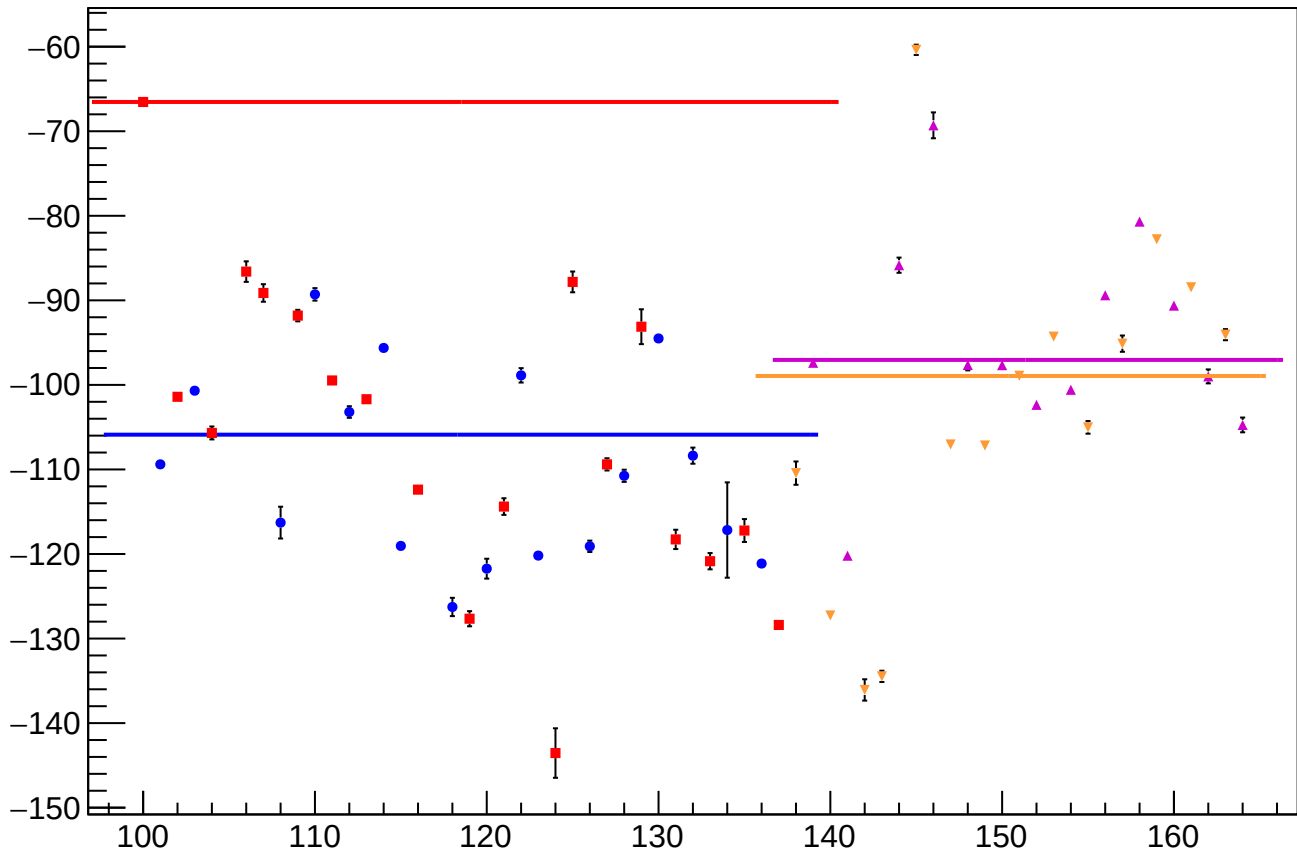
Right: -12.264 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4380.1/35

In: -12.264 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 8092.5/29

Out: -12.107 $\pm$ 0.094  $\chi^2/\text{NDF}$ : 7569.6/32

All: -12.264 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 15664.9/62

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In: -105.886+/-0.108  $\chi^2/\text{NDF}$ : 6351.6/16

Left Out: -98.945+/-0.153  $\chi^2/\text{NDF}$ :14194.9/13

Right Out: -66.536+/-0.000  $\chi^2/\text{NDF}$ : 794335.4/18

Left In: -97.045+/-0.123  $\chi^2/\text{NDF}$ :5333.3/12

Left: -97.794+/-0.096  $\chi^2/\text{NDF}$ : 19621.9/26

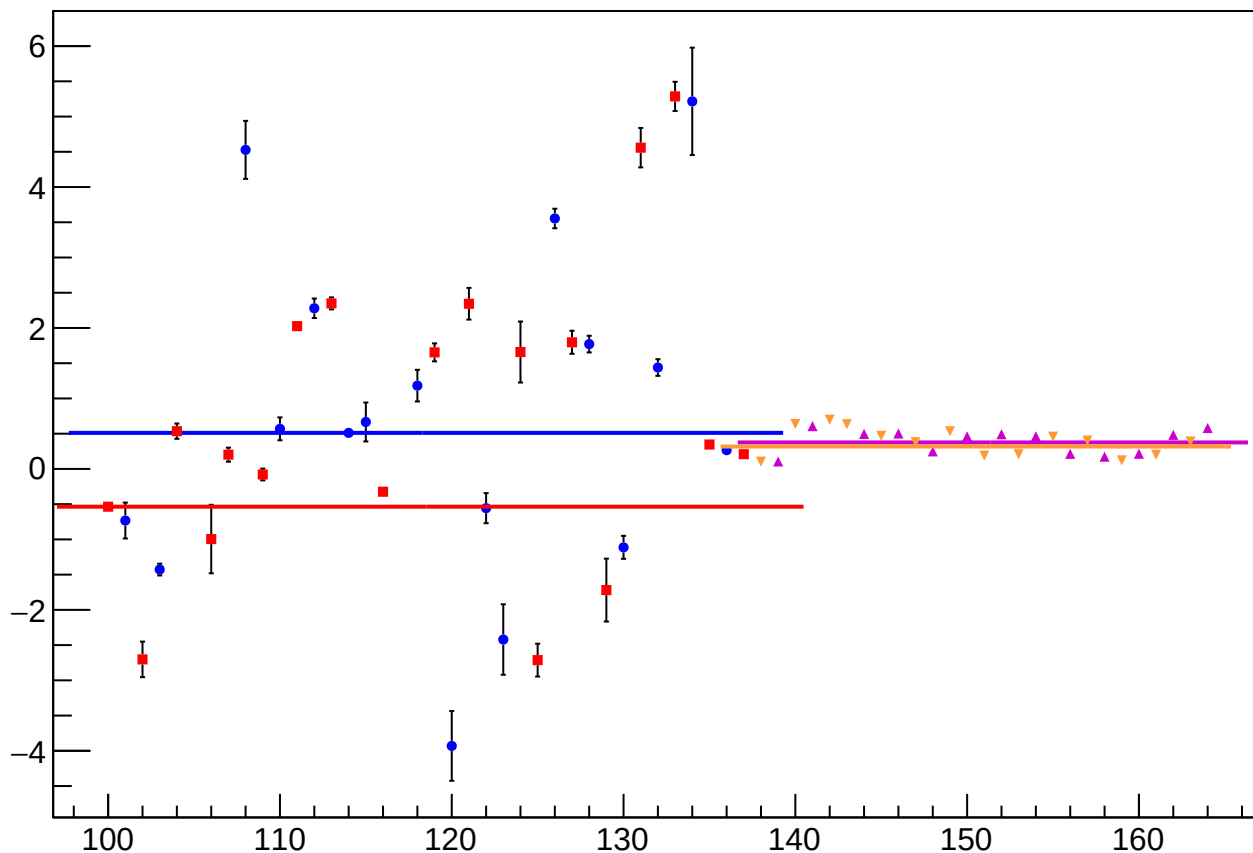
Right: -66.536+/-0.000  $\chi^2/\text{NDF}$ : 934616.3/35

In: -102.066+/-0.081  $\chi^2/\text{NDF}$ :14606.7/29

Out: -66.536+/-0.000  $\chi^2/\text{NDF}$ :853534.5/32

All: -66.536+/-0.000  $\chi^2/\text{NDF}$ : 1060406.8/62

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.512 \pm 0.000$   $\chi^2/\text{NDF}: 3863.6/16$

Left Out:  $0.317 \pm 0.003$   $\chi^2/\text{NDF}: 6225.1/13$

Right Out:  $-0.536 \pm 0.000$   $\chi^2/\text{NDF}: 33055.3/18$

Left In:  $0.376 \pm 0.002$   $\chi^2/\text{NDF}: 7592.5/12$

Left:  $0.353 \pm 0.002$   $\chi^2/\text{NDF}: 14145.1/26$

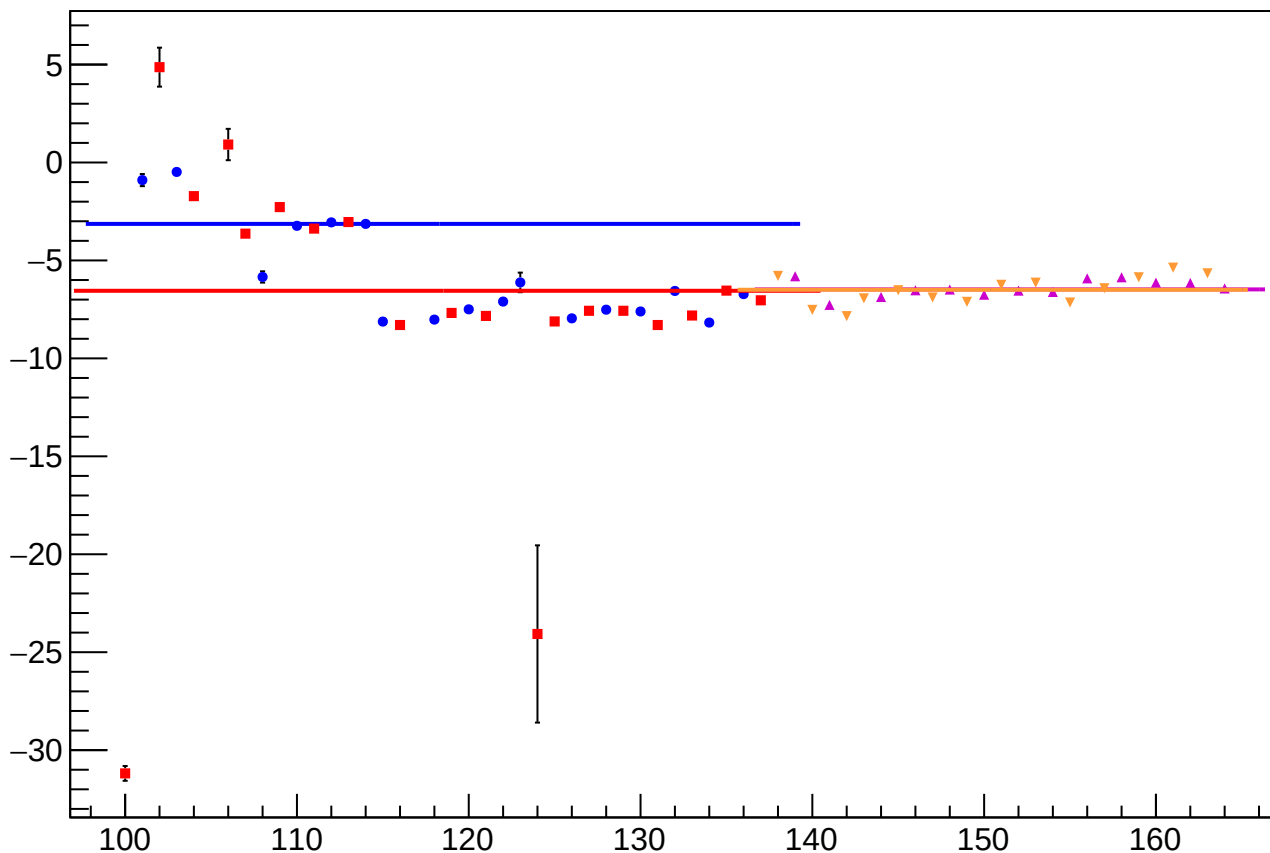
Right:  $0.142 \pm 0.000$   $\chi^2/\text{NDF}: 34560328403056077$

In:  $0.512 \pm 0.000$   $\chi^2/\text{NDF}: 16052.6/29$

Out:  $-0.536 \pm 0.000$   $\chi^2/\text{NDF}: 152684.3/32$

All:  $0.142 \pm 0.000$   $\chi^2/\text{NDF}: 34560328403056$

# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In: -3.134+/-0.000  $\chi^2/\text{NDF}$ : 368547.6/16

Left Out: -6.497+/-0.008  $\chi^2/\text{NDF}$ : 5532.9/13

Right Out: -6.549+/-0.008  $\chi^2/\text{NDF}$ : 92207.3/18

Left In: -6.478+/-0.006  $\chi^2/\text{NDF}$ : 5248.7/12

Left: -6.486+/-0.005  $\chi^2/\text{NDF}$ : 10785.4/26

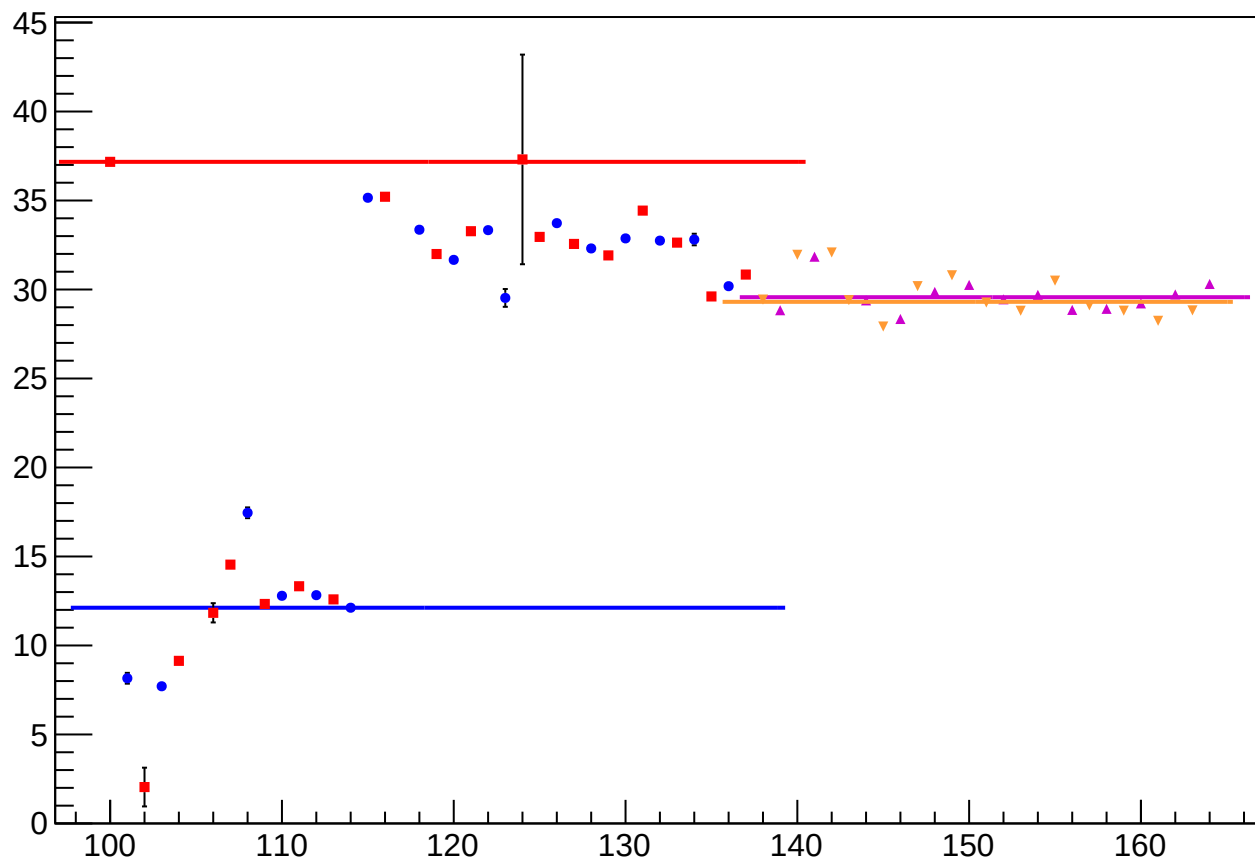
Right: -3.134+/-0.000  $\chi^2/\text{NDF}$ : 667054.5/35

In: -3.134+/-0.000  $\chi^2/\text{NDF}$ : 678583.2/29

Out: -6.524+/-0.005  $\chi^2/\text{NDF}$ : 97763.5/32

All: -3.134+/-0.000  $\chi^2/\text{NDF}$ : 1171469.2/62

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 12.121+/-0.000  $\chi^2/\text{NDF}$ : 1993680.8/16

Left Out: 29.307+/-0.013  $\chi^2/\text{NDF}$ : 8291.0/13

Right Out: 37.173+/-0.000  $\chi^2/\text{NDF}$ : 1531278.0/18

Left In: 29.568+/-0.011  $\chi^2/\text{NDF}$ : 3011.1/12

Left: 29.455+/-0.008  $\chi^2/\text{NDF}$ : 11544.0/26

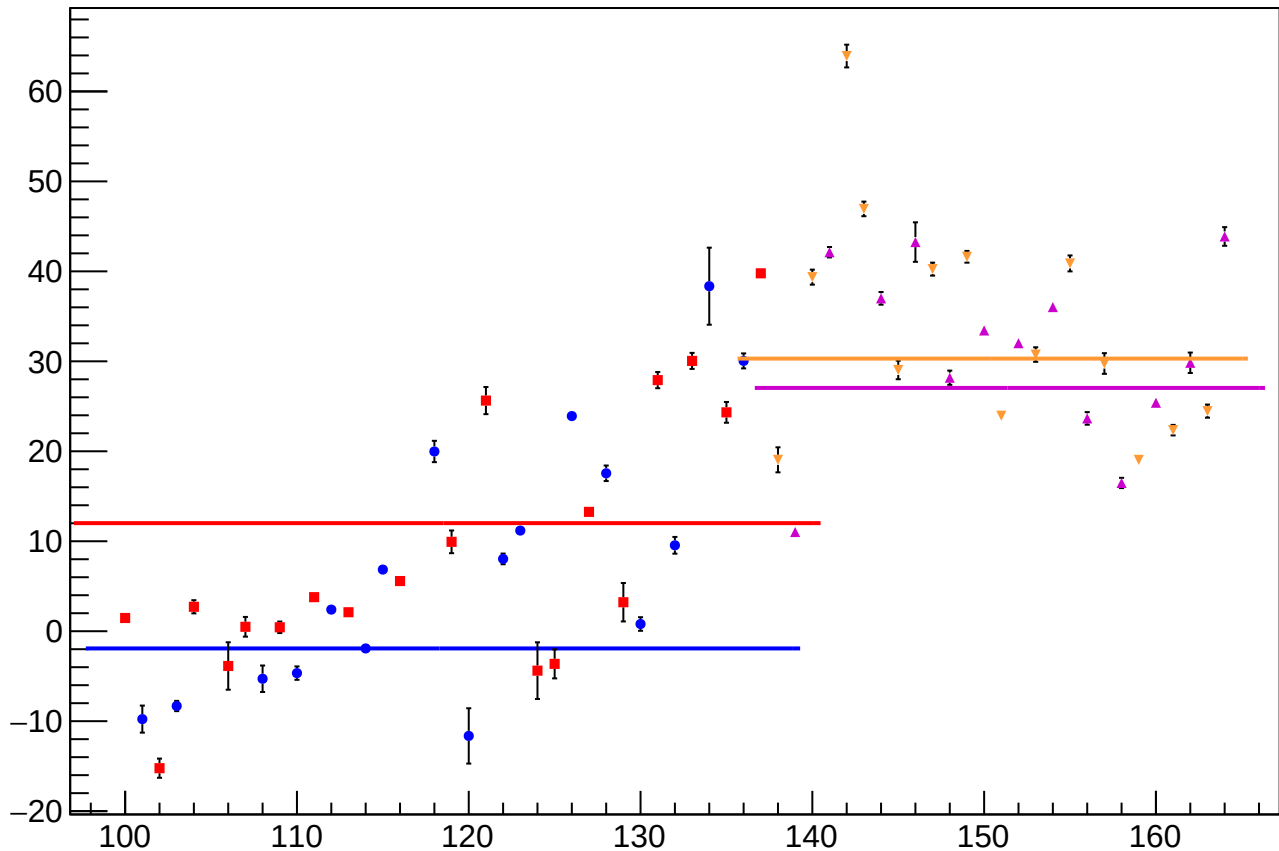
Right: 15.127+/-0.000  $\chi^2/\text{NDF}$ : 6563554116066231

In: 12.121+/-0.000  $\chi^2/\text{NDF}$ : 4511089.2/29

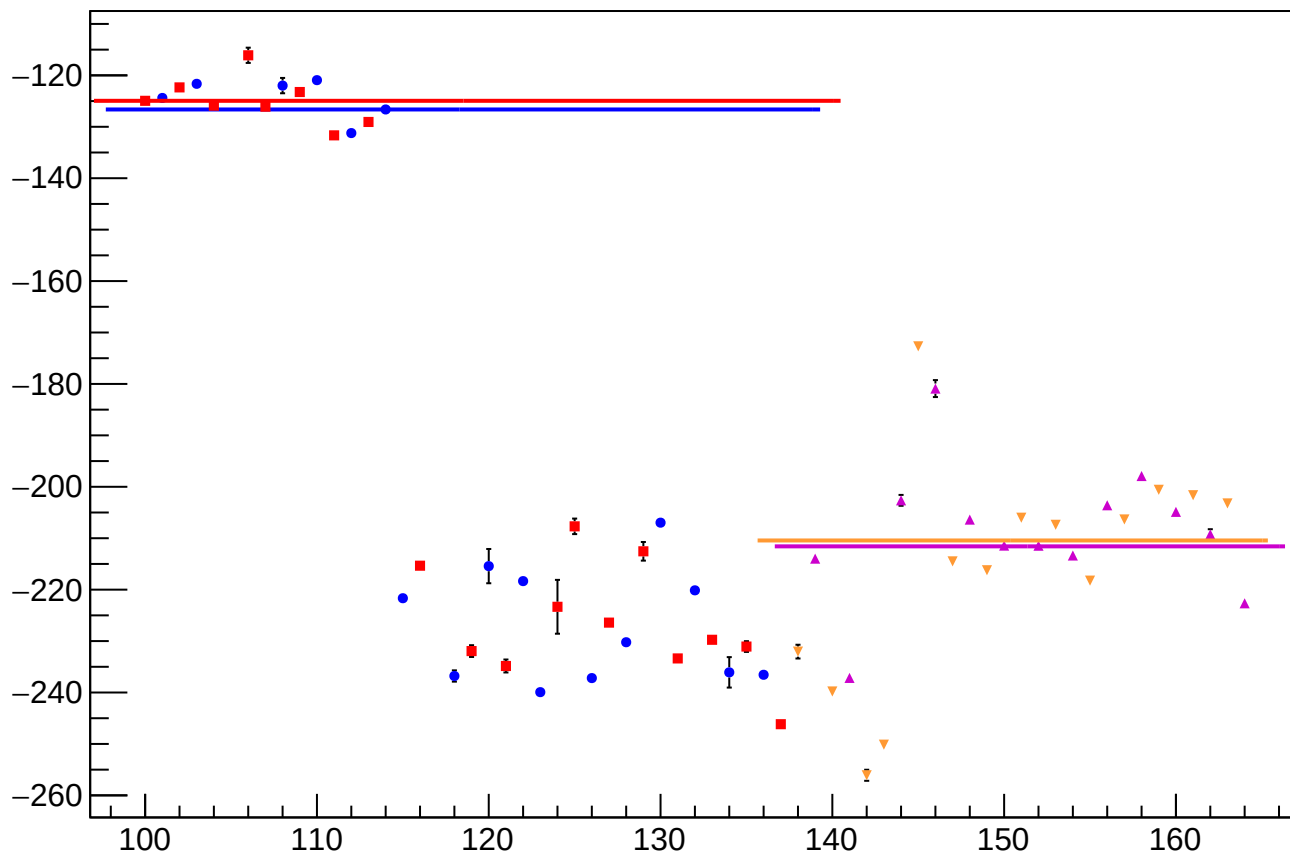
Out: 37.173+/-0.000  $\chi^2/\text{NDF}$ : 1926547.0/32

All: 15.127+/-0.000  $\chi^2/\text{NDF}$ : 6563554116066231

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In: -126.632 $\pm$ 0.000  $\chi^2$ /NDF: 278525.1/16

Left Out: -210.437 $\pm$ 0.157  $\chi^2$ /NDF:11643.8/13

Right Out: -124.949 $\pm$ 0.000  $\chi^2$ /NDF: 470459.3/18

Left In: -211.583 $\pm$ 0.122  $\chi^2$ /NDF:5278.1/12

Left: -211.152 $\pm$ 0.097  $\chi^2$ /NDF: 16955.0/26

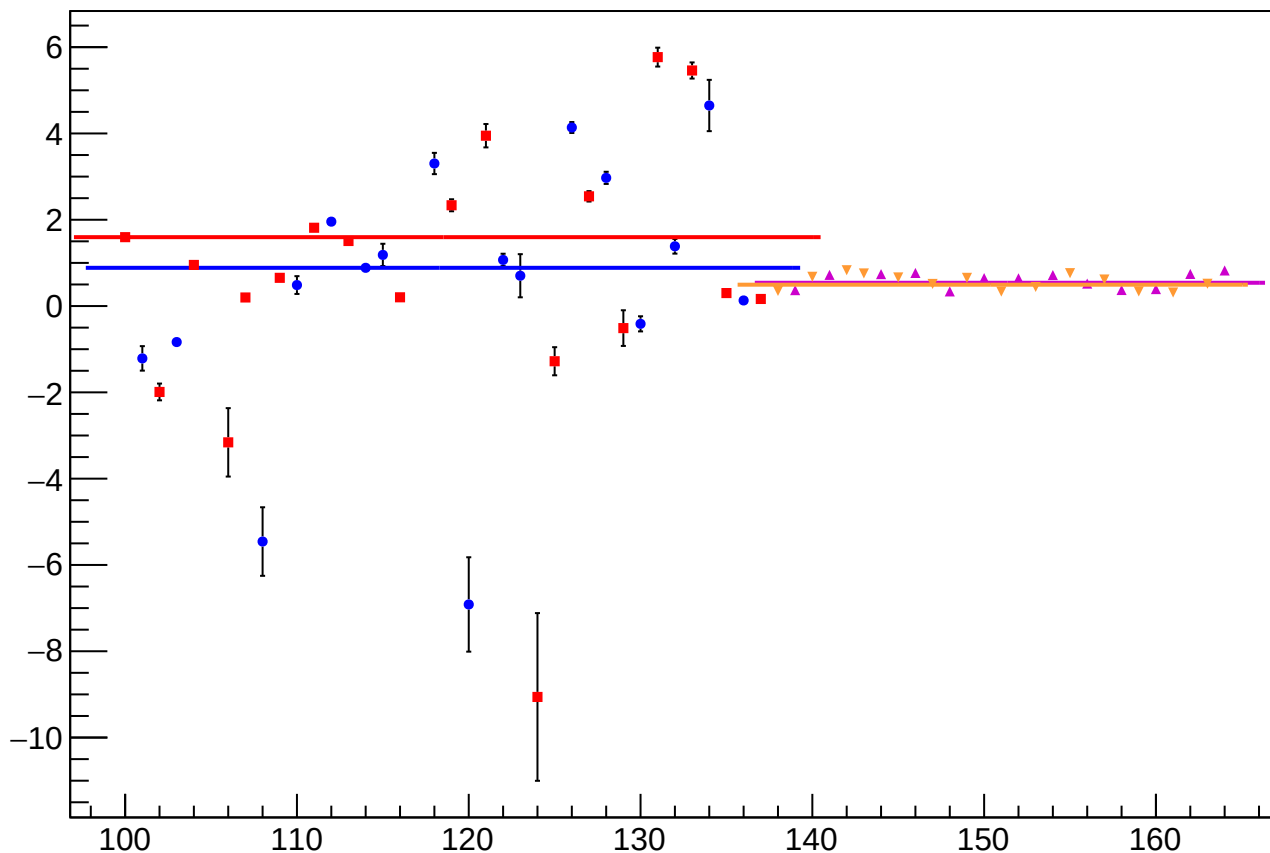
Right: -126.038 $\pm$ 0.000  $\chi^2$ /NDF: 60537895424820

In: -126.632 $\pm$ 0.000  $\chi^2$ /NDF:767269.0/29

Out: -124.949 $\pm$ 0.000  $\chi^2$ /NDF:777046.8/32

All: -126.038 $\pm$ 0.000  $\chi^2$ /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:  $0.495 \pm 0.003$   $\chi^2/\text{NDF}: 3278.6/13$

Right Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 4615.5/18$

Left In:  $0.540 \pm 0.002$   $\chi^2/\text{NDF}: 4274.8/12$

Left:  $0.522 \pm 0.002$   $\chi^2/\text{NDF}: 7689.6/26$

Right:  $1.137 \pm 0.000$   $\chi^2/\text{NDF}: 39737604737084083$

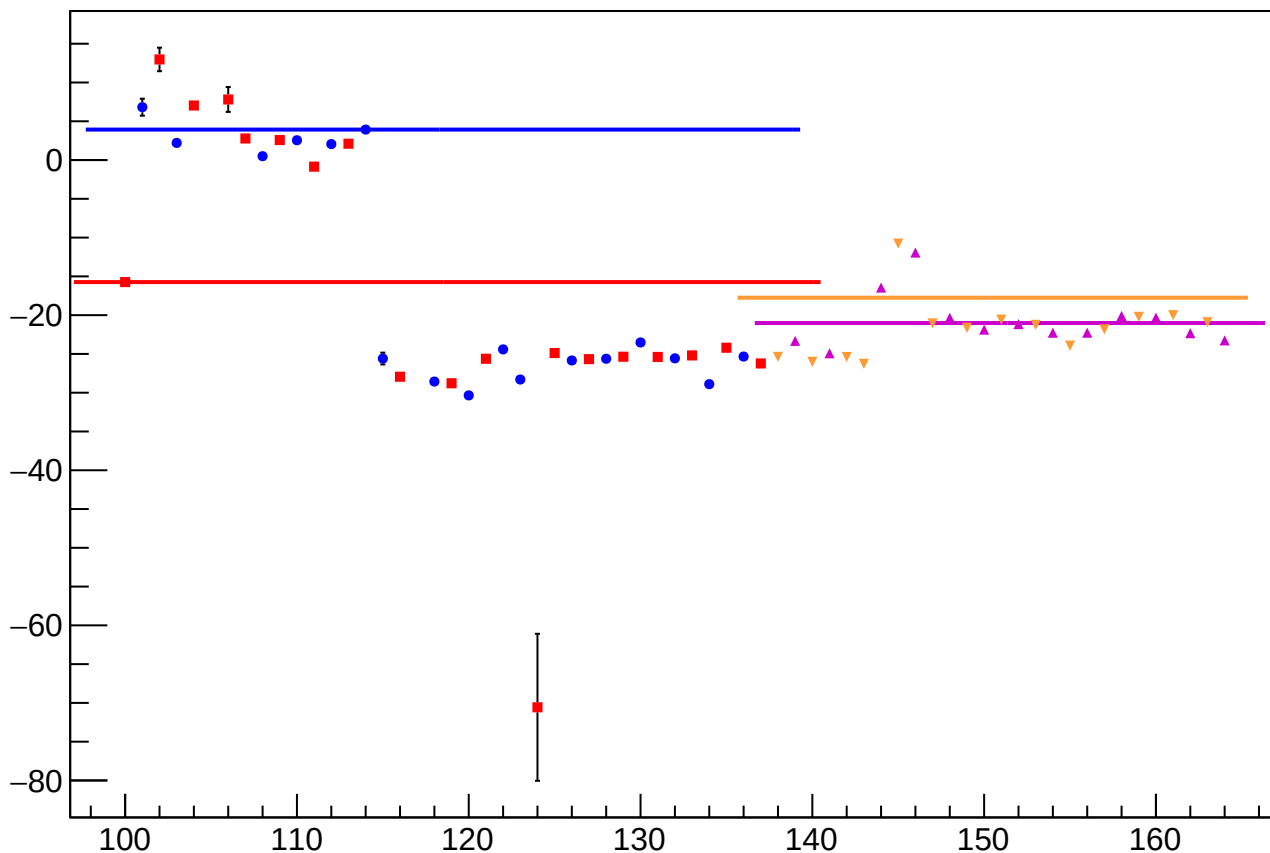
In:  $0.886 \pm 0.000$   $\chi^2/\text{NDF}: 33900.4/29$

Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 146500.1/32$

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:  $-17.750 \pm 0.015$   $\chi^2/\text{NDF}$ : 121420.5/13

Right Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}$ : 267951.2/18

Left In:  $-21.015 \pm 0.016$   $\chi^2/\text{NDF}$ : 10549.4/12

Left:  $-19.341 \pm 0.011$   $\chi^2/\text{NDF}$ : 154314.6/26

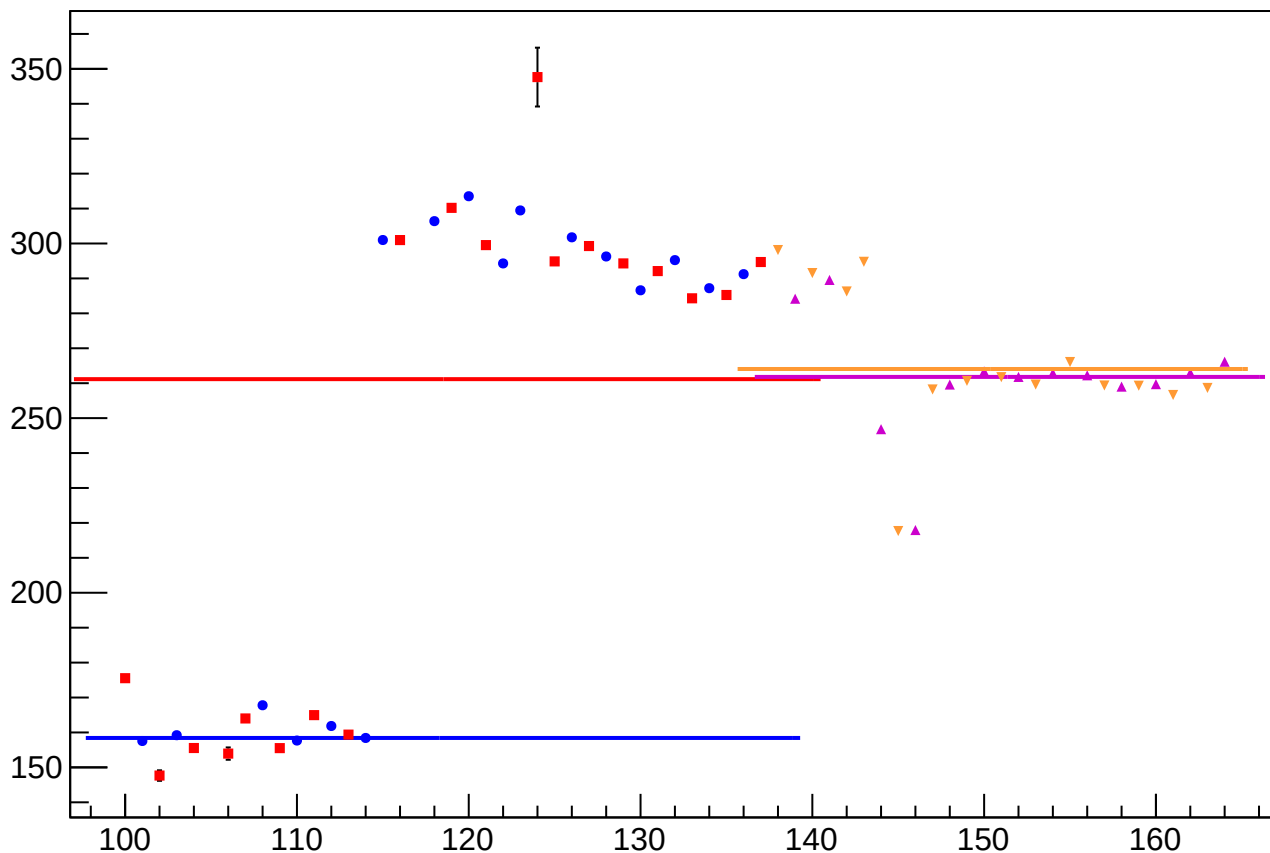
Right:  $3.282 \pm 0.000$   $\chi^2/\text{NDF}$ : 71120480173548026

In:  $3.930 \pm 0.000$   $\chi^2/\text{NDF}$ : 8695191.9/29

Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}$ : 406808.4/32

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: 264.066+/-0.038  $\chi^2/\text{NDF}$ :202590.7/13

Right Out: 261.159+/-0.058  $\chi^2/\text{NDF}$ : 1071248.7/18

Left In: 261.799+/-0.033  $\chi^2/\text{NDF}$ :36635.8/12

Left: 262.776+/-0.025  $\chi^2/\text{NDF}$ : 241233.2/26

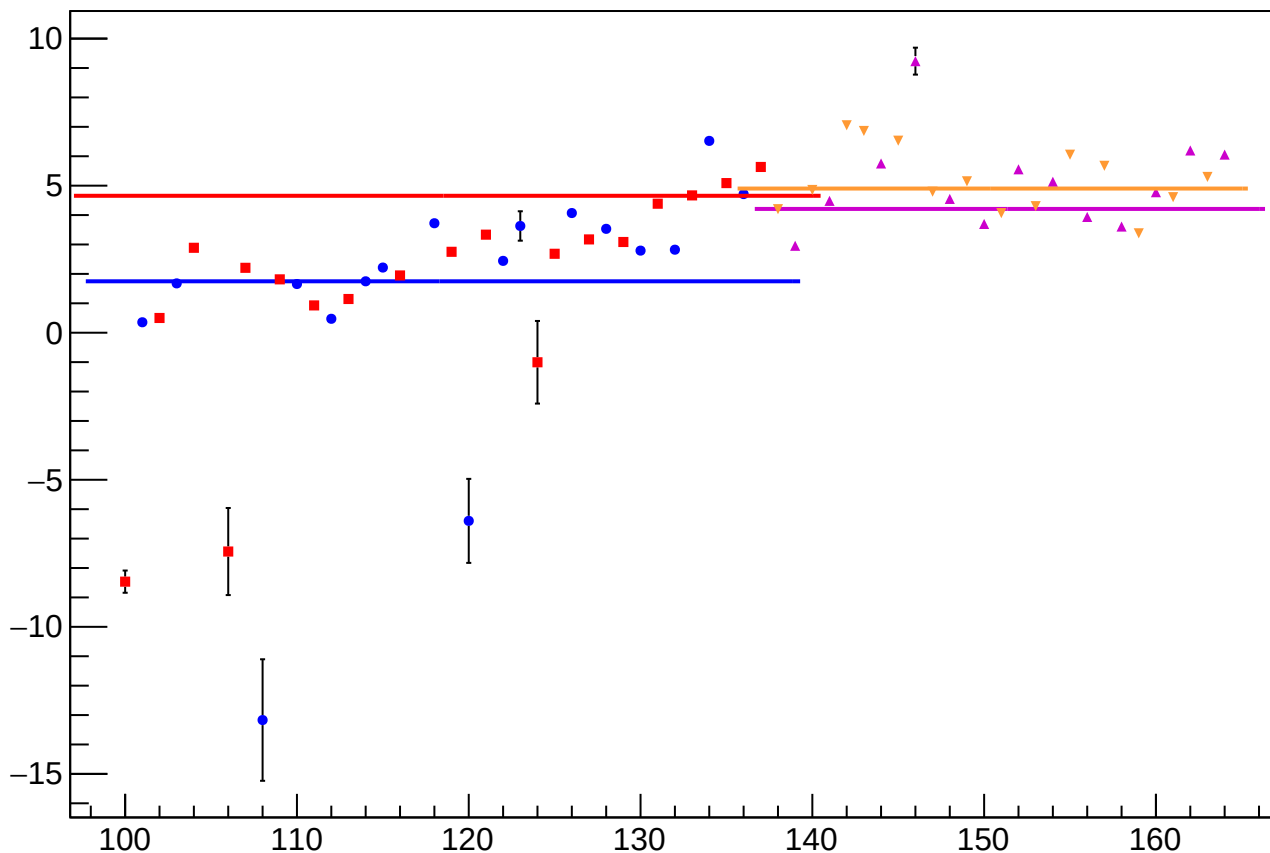
Right: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 7687009.8/35

In: 158.426+/-0.000  $\chi^2/\text{NDF}$ :13241269.3/29

Out: 263.195+/-0.032  $\chi^2/\text{NDF}$ :1275577.7/32

All: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 25268617.9/62

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In:  $1.748 \pm 0.000$   $\chi^2/\text{NDF}$ : 11344.3/16

Left Out:  $4.902 \pm 0.016$   $\chi^2/\text{NDF}$ : 2036.9/13

Right Out:  $4.656 \pm 0.006$   $\chi^2/\text{NDF}$ : 68303.7/18

Left In:  $4.209 \pm 0.016$   $\chi^2/\text{NDF}$ : 3238.7/12

Left:  $4.541 \pm 0.011$   $\chi^2/\text{NDF}$ : 6205.8/26

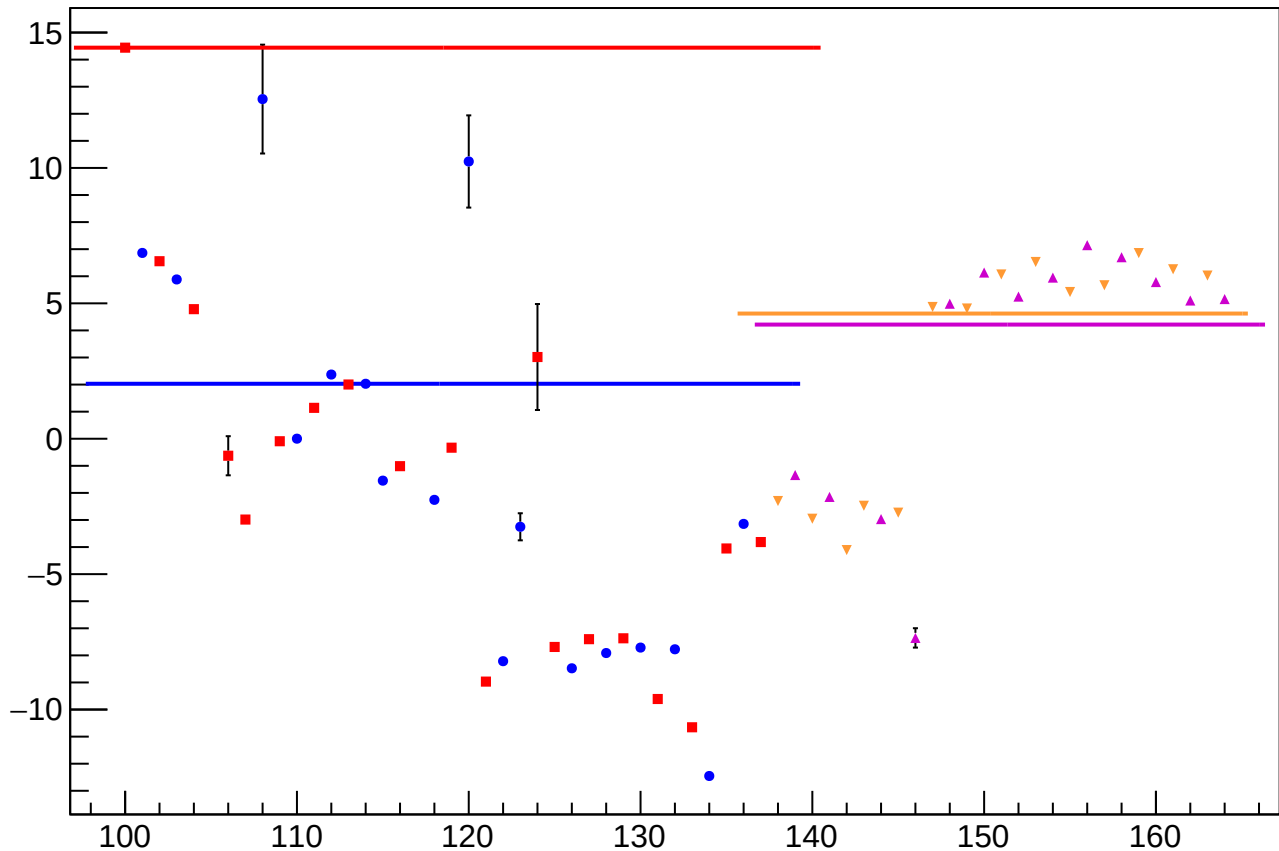
Right:  $1.748 \pm 0.000$   $\chi^2/\text{NDF}$ : 288719.9/35

In:  $1.748 \pm 0.000$   $\chi^2/\text{NDF}$ : 39013.5/29

Out:  $4.688 \pm 0.006$   $\chi^2/\text{NDF}$ : 70536.5/32

All:  $1.748 \pm 0.000$   $\chi^2/\text{NDF}$ : 355452.9/62

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In: 2.030 $\pm$ 0.000  $\chi^2$ /NDF: 202792.6/16

Left Out: 4.623 $\pm$ 0.013  $\chi^2$ /NDF:40246.5/13

Right Out: 14.441 $\pm$ 0.000  $\chi^2$ /NDF: 5836025.9/18

Left In: 4.216 $\pm$ 0.013  $\chi^2$ /NDF:62512.3/12

Left: 4.419 $\pm$ 0.010  $\chi^2$ /NDF: 103218.3/26

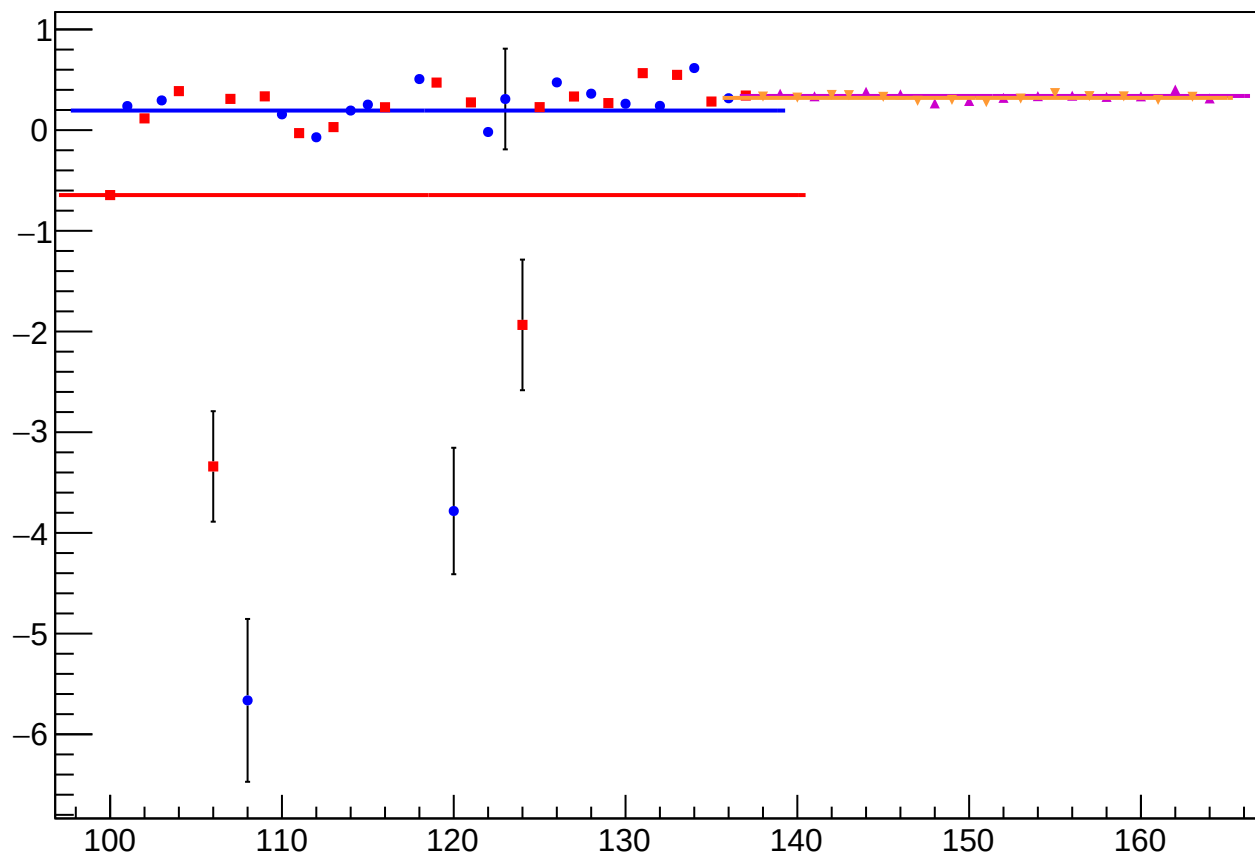
Right: 2.439 $\pm$ 0.000  $\chi^2$ /NDF: 70811145349033114

In: 2.030 $\pm$ 0.000  $\chi^2$ /NDF:291819.2/29

Out: 14.441 $\pm$ 0.000  $\chi^2$ /NDF:6408836.8/32

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: 0.320 $\pm$ 0.001  $\chi^2$ /NDF:1257.4/13

Right Out: -0.645 $\pm$ 0.000  $\chi^2$ /NDF: 191963.2/18

Left In: 0.339 $\pm$ 0.001  $\chi^2$ /NDF:2792.0/12

Left: 0.329 $\pm$ 0.000  $\chi^2$ /NDF: 4477.1/26

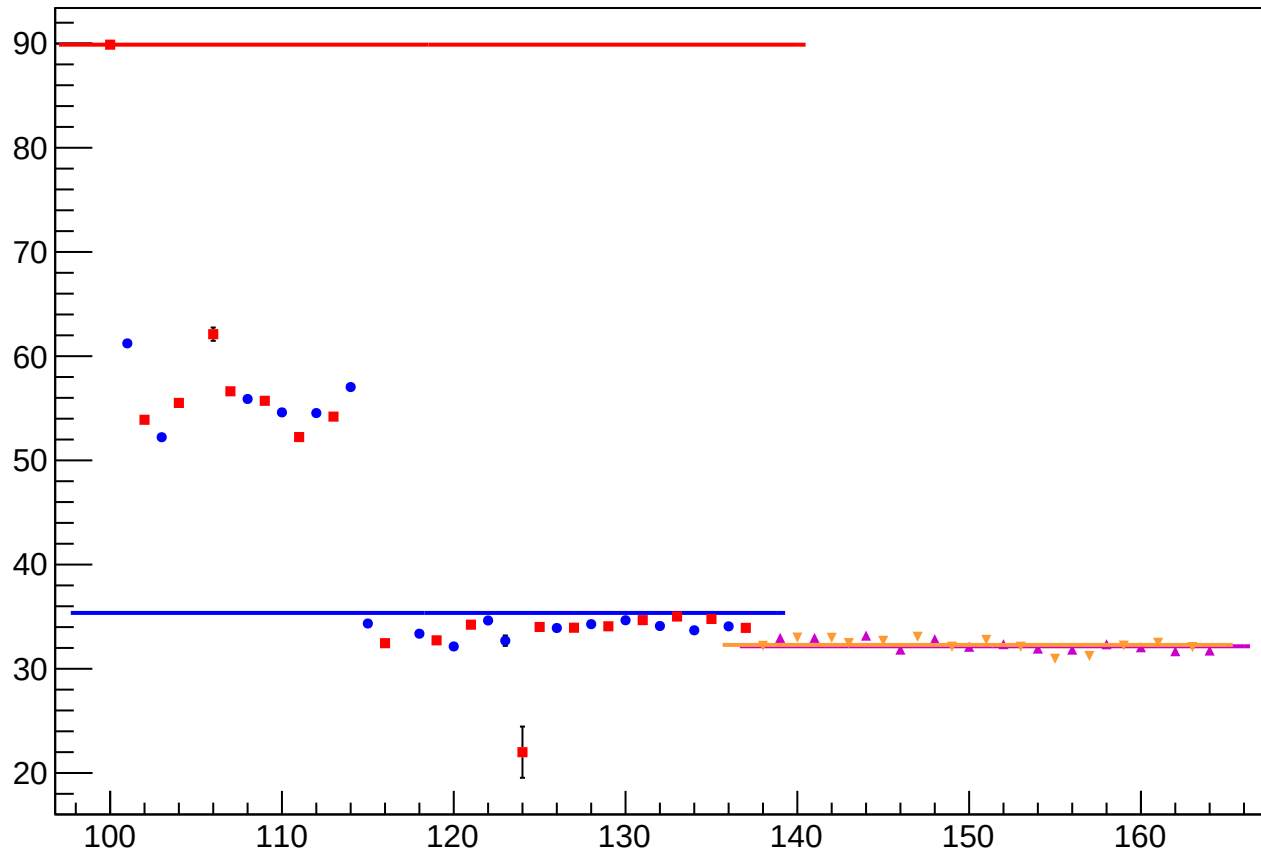
Right: 0.167 $\pm$ 0.000  $\chi^2$ /NDF: 33165765284559017

In: 0.194 $\pm$ 0.000  $\chi^2$ /NDF:58747.0/29

Out: -0.645 $\pm$ 0.000  $\chi^2$ /NDF:2431800.2/32

All: 0.167 $\pm$ 0.000  $\chi^2$ /NDF: 33165765284559017

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 35.361 $\pm$ 0.011  $\chi^2$ /NDF: 204481.2/16

Left Out: 32.292 $\pm$ 0.005  $\chi^2$ /NDF:3870.4/13

Right Out: 89.893 $\pm$ 0.000  $\chi^2$ /NDF: 68670863.1/18

Left In: 32.159 $\pm$ 0.004  $\chi^2$ /NDF:6992.0/12

Left: 32.222 $\pm$ 0.003  $\chi^2$ /NDF: 11315.6/26

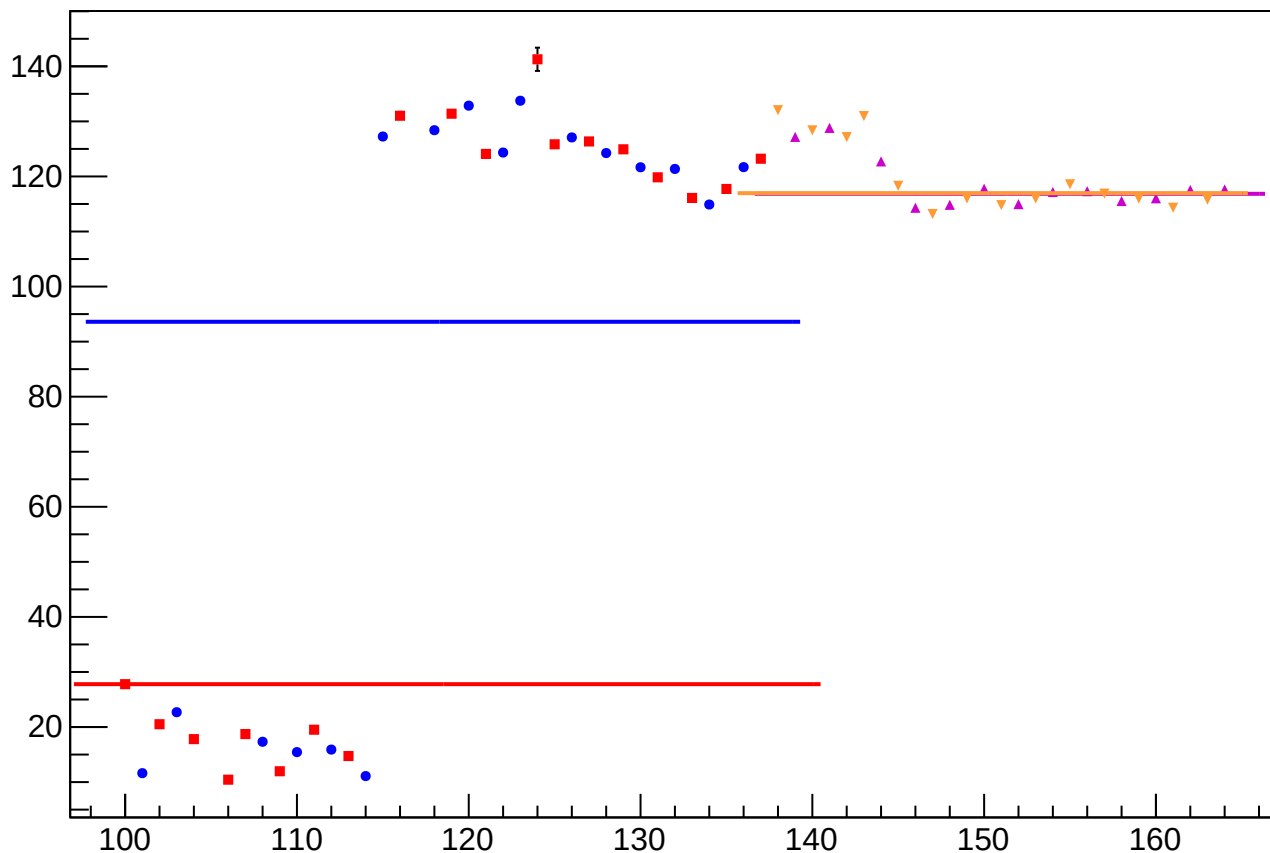
Right: 89.893 $\pm$ 0.000  $\chi^2$ /NDF: 93132320.2/35

In: 32.579 $\pm$ 0.004  $\chi^2$ /NDF:284122.3/29

Out: 89.893 $\pm$ 0.000  $\chi^2$ /NDF:230092496.6/32

All: 89.893 $\pm$ 0.000  $\chi^2$ /NDF: 434358566.3/62

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In: 93.605+/-0.027  $\chi^2/\text{NDF}$ : 2987877.5/16

Left Out: 116.962+/-0.010  $\chi^2/\text{NDF}$ :136472.8/13

Right Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 7919263.8/18

Left In: 116.846+/-0.010  $\chi^2/\text{NDF}$ :41716.9/12

Left: 116.901+/-0.007  $\chi^2/\text{NDF}$ : 178259.1/26

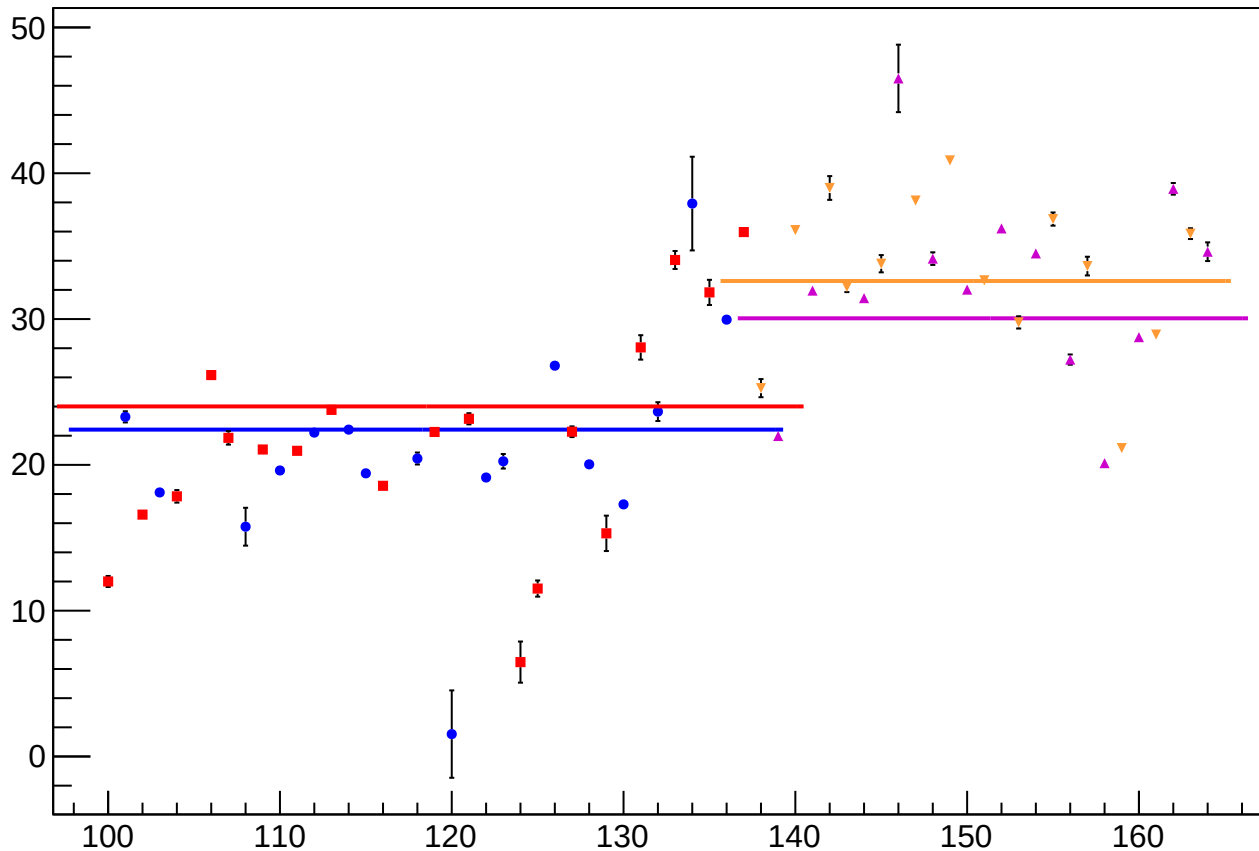
Right: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 16894092.4/35

In: 114.255+/-0.009  $\chi^2/\text{NDF}$ :3692843.5/29

Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ :86544798.2/32

All: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 182931863.3/62

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 3247.9/16

Left Out: 32.611 $\pm$ 0.098  $\chi^2$ /NDF:3664.8/13

Right Out: 24.008 $\pm$ 0.058  $\chi^2$ /NDF: 15408.9/18

Left In: 30.051 $\pm$ 0.079  $\chi^2$ /NDF:4634.7/12

Left: 31.065 $\pm$ 0.061  $\chi^2$ /NDF: 8714.9/26

Right: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 19415.4/35

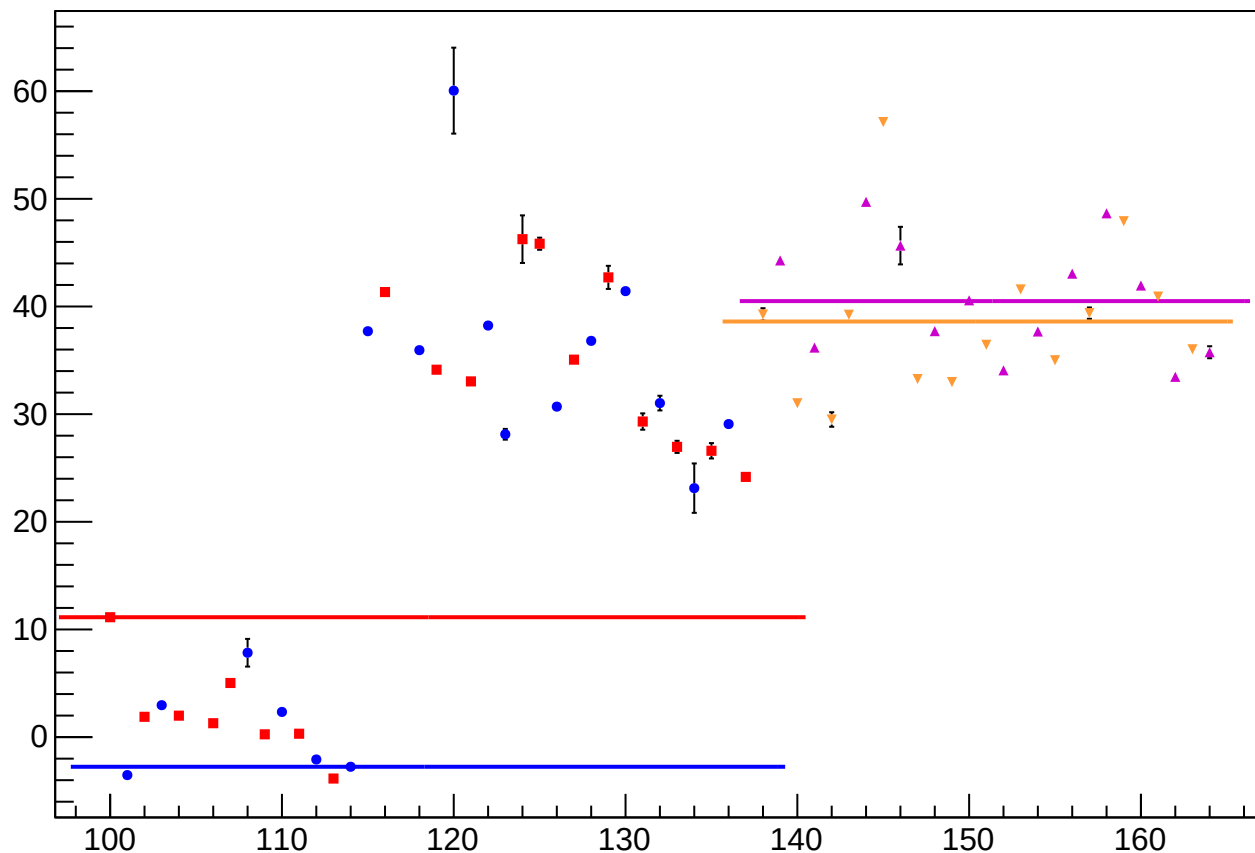
In: 22.418 $\pm$ 0.000  $\chi^2$ /NDF:17204.3/29

Out: 26.239 $\pm$ 0.050  $\chi^2$ /NDF:24827.8/32

All: 22.418 $\pm$ 0.000  $\chi^2$ /NDF: 47943.1/62



# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}$ : 149281.3/16

Left Out:  $38.605 \pm 0.080$   $\chi^2/\text{NDF}$ : 6255.4/13

Right Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}$ : 2575367.3/18

Left In:  $40.500 \pm 0.065$   $\chi^2/\text{NDF}$ : 4180.8/12

Left:  $39.745 \pm 0.050$   $\chi^2/\text{NDF}$ : 10774.6/26

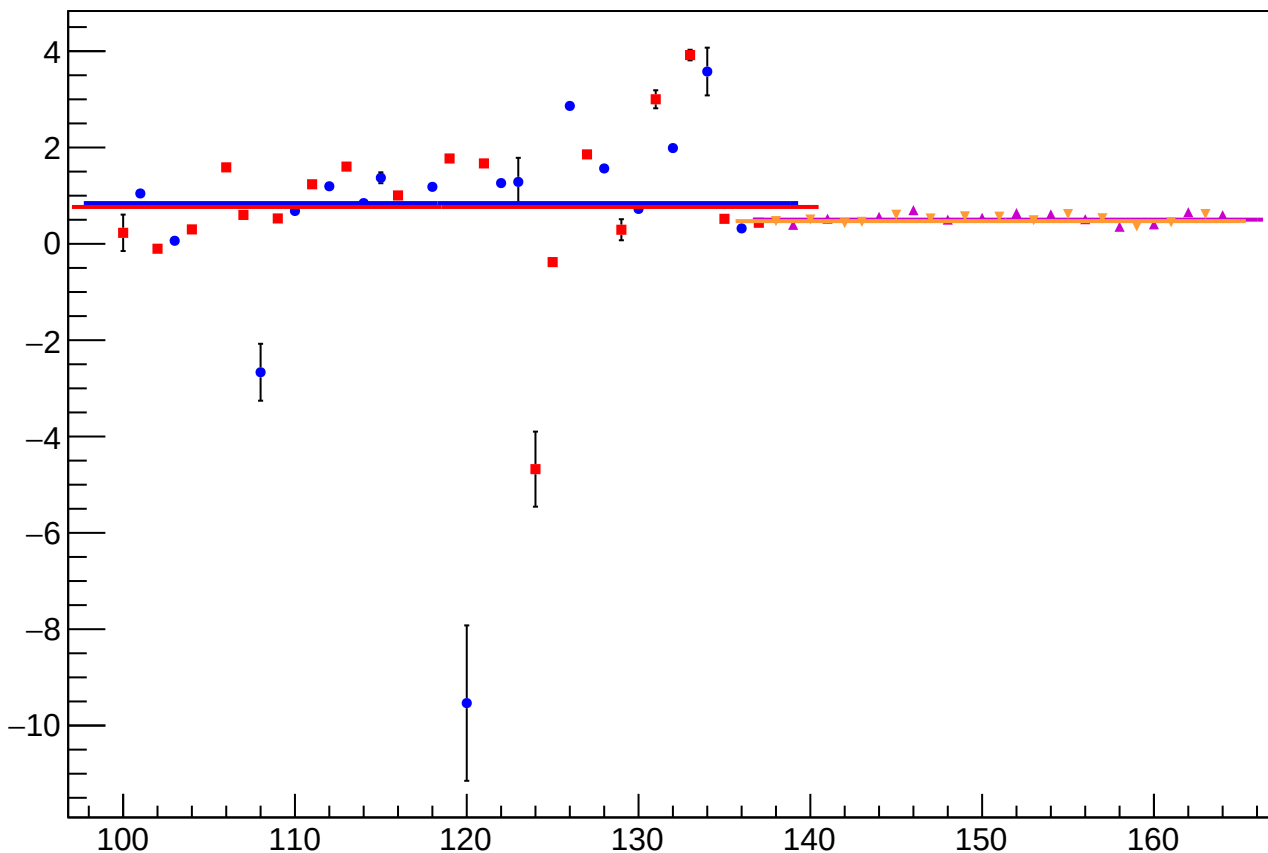
Right:  $-2.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 9095226728437180

In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}$ : 595621.0/29

Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}$ : 2699837.0/32

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: 0.472 $\pm$ 0.001  $\chi^2$ /NDF: 5267.5/13

Right Out: 0.766 $\pm$ 0.007  $\chi^2$ /NDF: 4211.3/18

Left In: 0.502 $\pm$ 0.001  $\chi^2$ /NDF: 8579.6/12

Left: 0.488 $\pm$ 0.001  $\chi^2$ /NDF: 14152.8/26

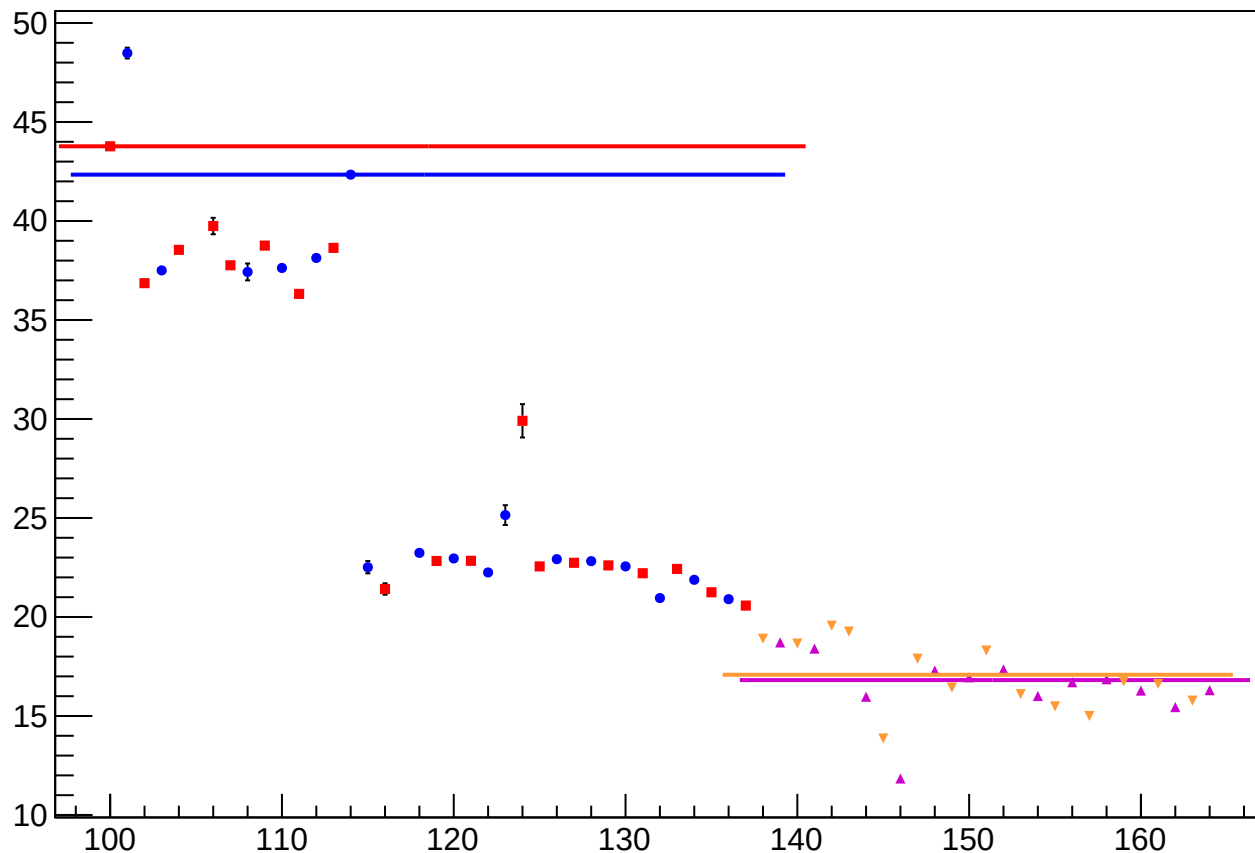
Right: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 20651.7/35

In: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 106777.2/29

Out: 0.481 $\pm$ 0.001  $\chi^2$ /NDF: 11222.6/32

All: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 204051.3/62

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 42.341+/-0.000  $\chi^2/\text{NDF}$ : 4058390.3/16

Left Out: 17.082+/-0.007  $\chi^2/\text{NDF}$ : 44816.9/13

Right Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ : 4579991.9/18

Left In: 16.813+/-0.008  $\chi^2/\text{NDF}$ : 14676.9/12

Left: 16.959+/-0.005  $\chi^2/\text{NDF}$ : 60123.1/26

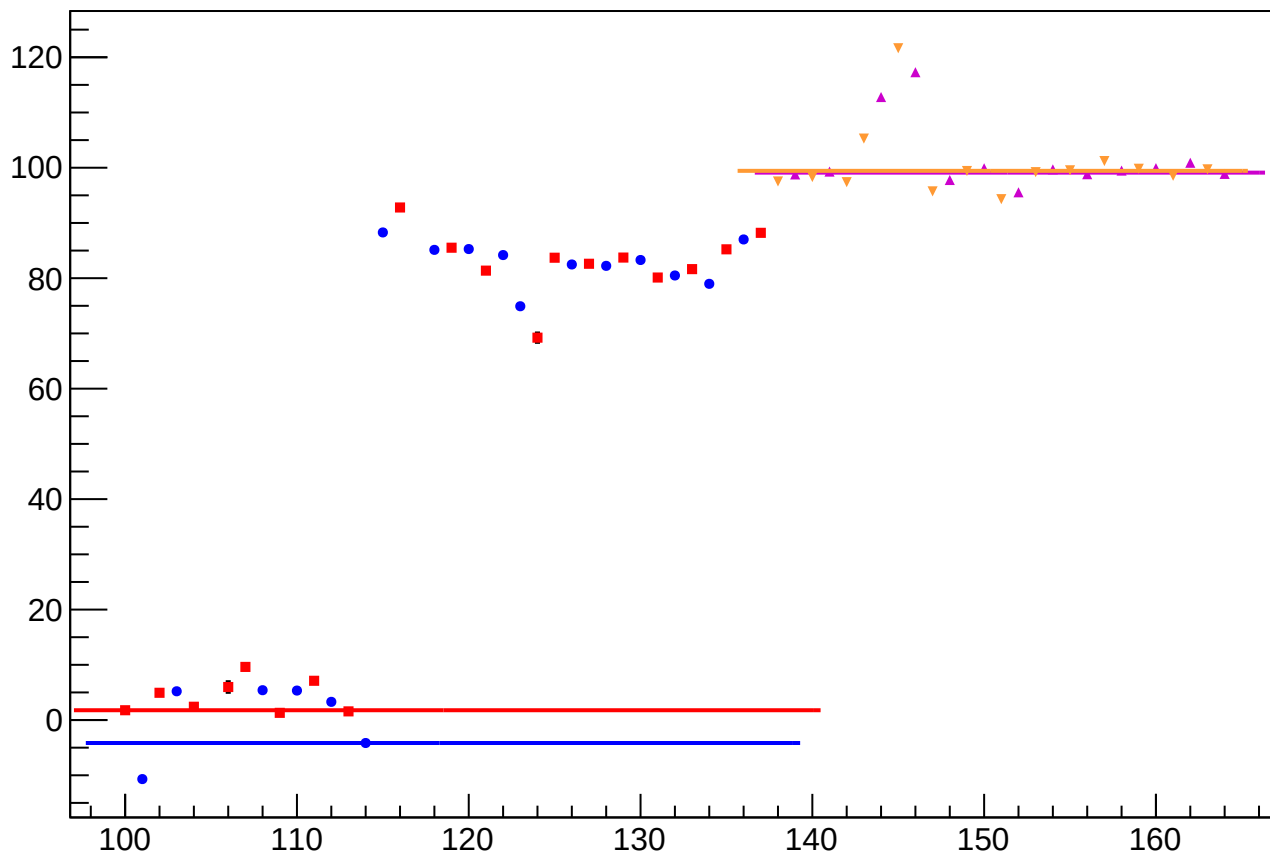
Right: 42.846+/-0.000  $\chi^2/\text{NDF}$ : 1577360390255068

In: 42.341+/-0.000  $\chi^2/\text{NDF}$ : 14559117.7/29

Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ : 18179641.7/32

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: 99.437+/-0.014  $\chi^2/\text{NDF}$ :67456.0/13

Right Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ : 5403608.1/18

Left In: 99.112+/-0.013  $\chi^2/\text{NDF}$ :16402.3/12

Left: 99.271+/-0.010  $\chi^2/\text{NDF}$ : 84148.1/26

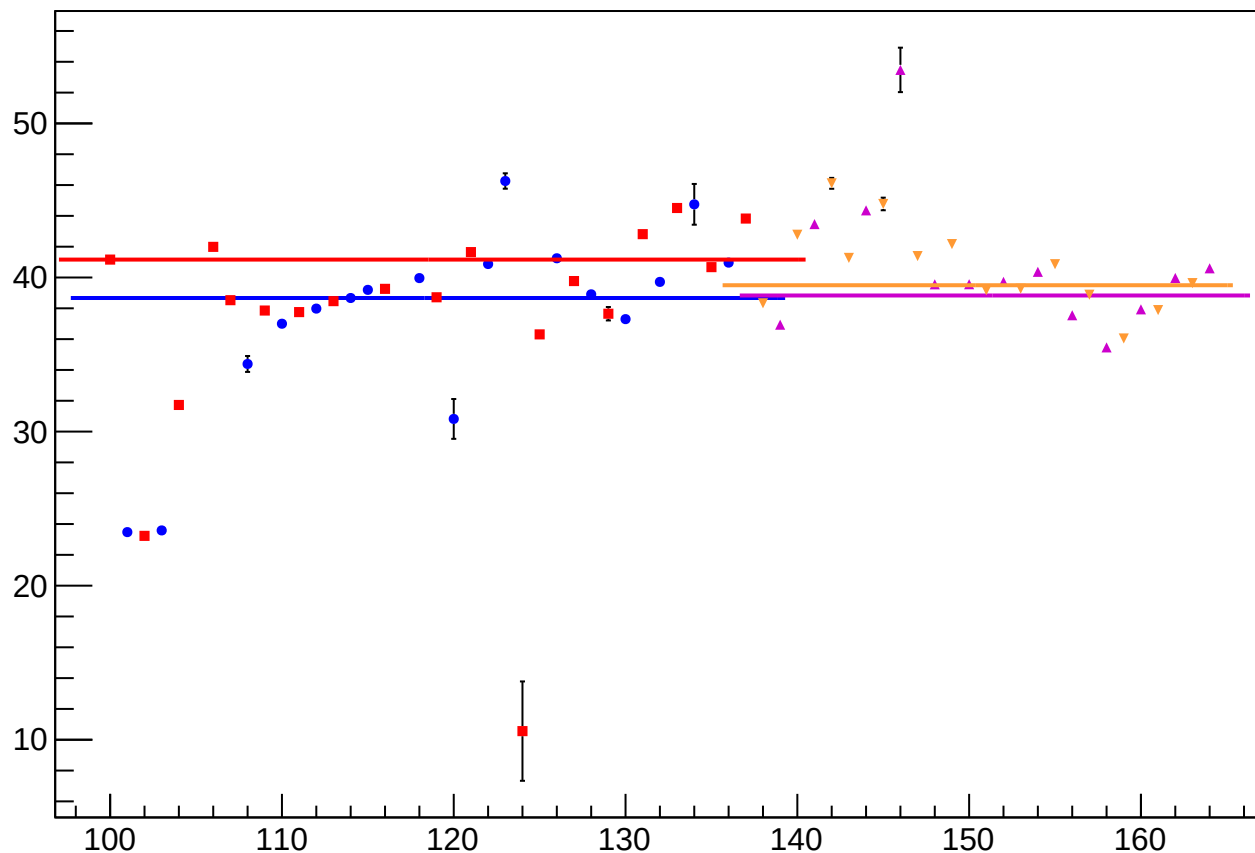
Right: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950686

In: -4.155+/-0.000  $\chi^2/\text{NDF}$ :68097202.5/29

Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ :56875416.3/32

All: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In: 38.669+/-0.000  $\chi^2/\text{NDF}$ : 59984.0/16

Left Out: 39.498+/-0.037  $\chi^2/\text{NDF}$ : 3865.6/13

Right Out: 41.163+/-0.000  $\chi^2/\text{NDF}$ : 38410.9/18

Left In: 38.833+/-0.028  $\chi^2/\text{NDF}$ : 5418.2/12

Left: 39.078+/-0.022  $\chi^2/\text{NDF}$ : 9487.7/26

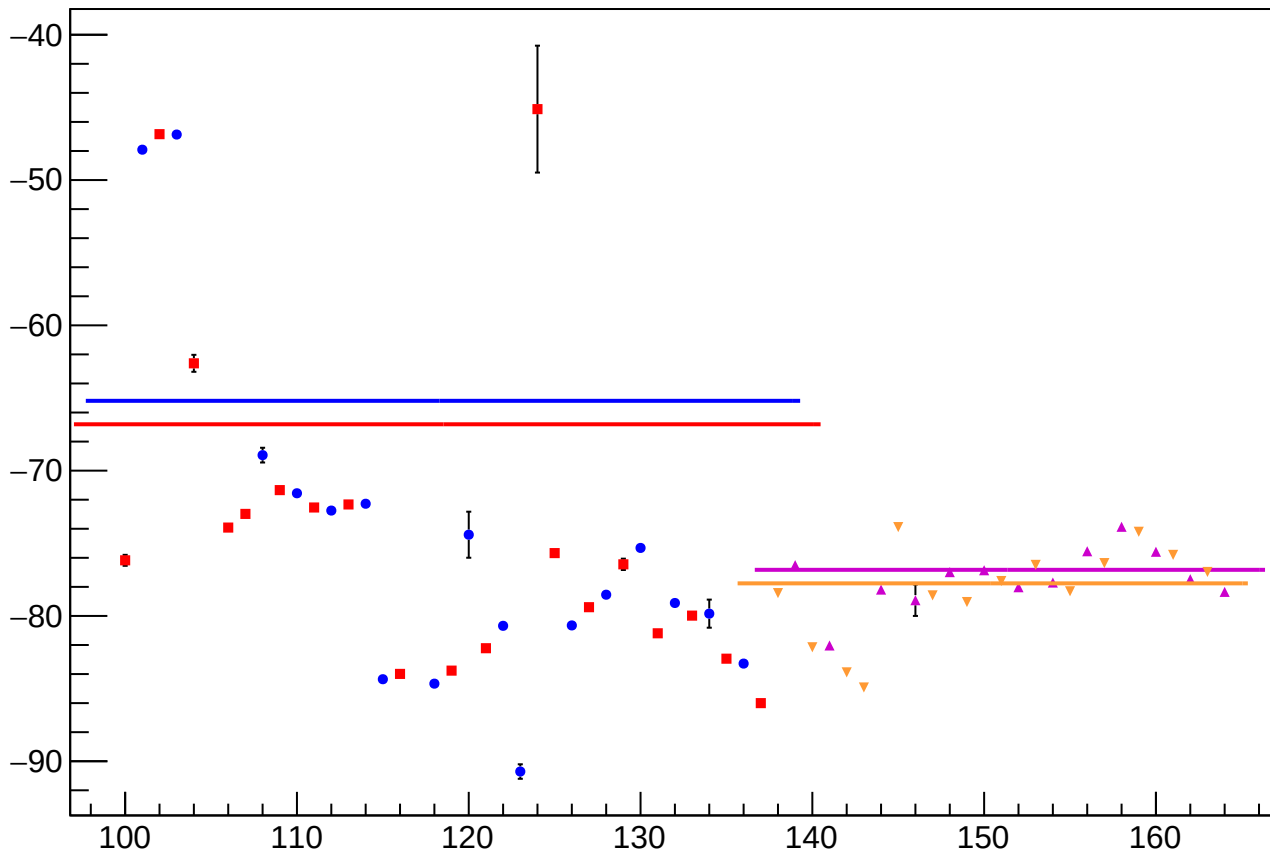
Right: 39.550+/-0.000  $\chi^2/\text{NDF}$ : 4780640080062069

In: 38.669+/-0.000  $\chi^2/\text{NDF}$ : 65435.5/29

Out: 41.163+/-0.000  $\chi^2/\text{NDF}$ : 44298.9/32

All: 39.550+/-0.000  $\chi^2/\text{NDF}$ : 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:  $-77.758 \pm 0.031$   $\chi^2/\text{NDF}: 10439.7/13$

Right Out:  $-66.809 \pm 0.016$   $\chi^2/\text{NDF}: 809951.7/18$

Left In:  $-76.826 \pm 0.023$   $\chi^2/\text{NDF}: 4834.7/12$

Left:  $-77.154 \pm 0.018$   $\chi^2/\text{NDF}: 15868.3/26$

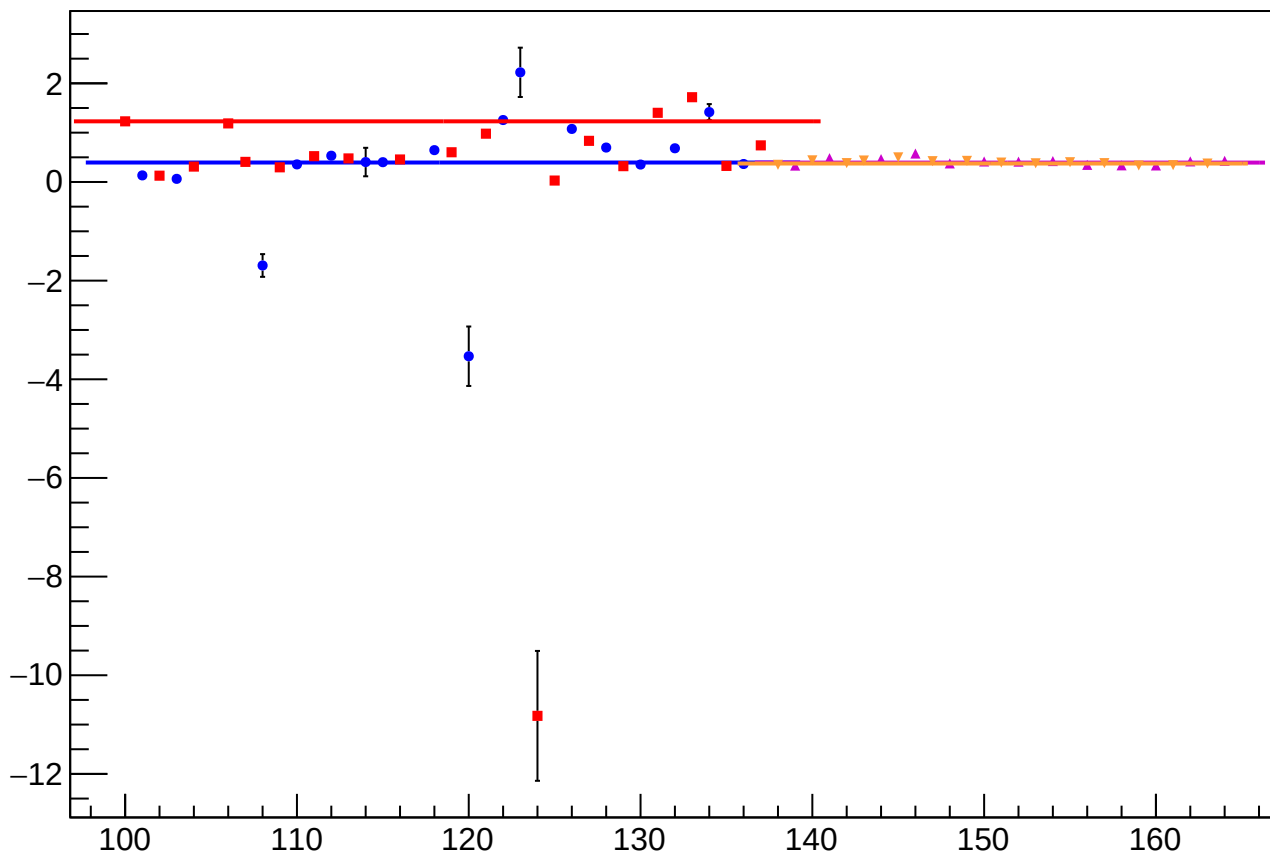
Right:  $-66.134 \pm 0.012$   $\chi^2/\text{NDF}: 1598578.1/35$

In:  $-69.881 \pm 0.014$   $\chi^2/\text{NDF}: 946064.6/29$

Out:  $-69.088 \pm 0.014$   $\chi^2/\text{NDF}: 920525.6/32$

All:  $-69.475 \pm 0.010$   $\chi^2/\text{NDF}: 1868145.7/62$

# dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 8730.5/16

Left Out: 0.374 $\pm$ 0.001  $\chi^2$ /NDF: 5229.4/13

Right Out: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 48941.9/18

Left In: 0.393 $\pm$ 0.001  $\chi^2$ /NDF: 6390.9/12

Left: 0.384 $\pm$ 0.000  $\chi^2$ /NDF: 12195.4/26

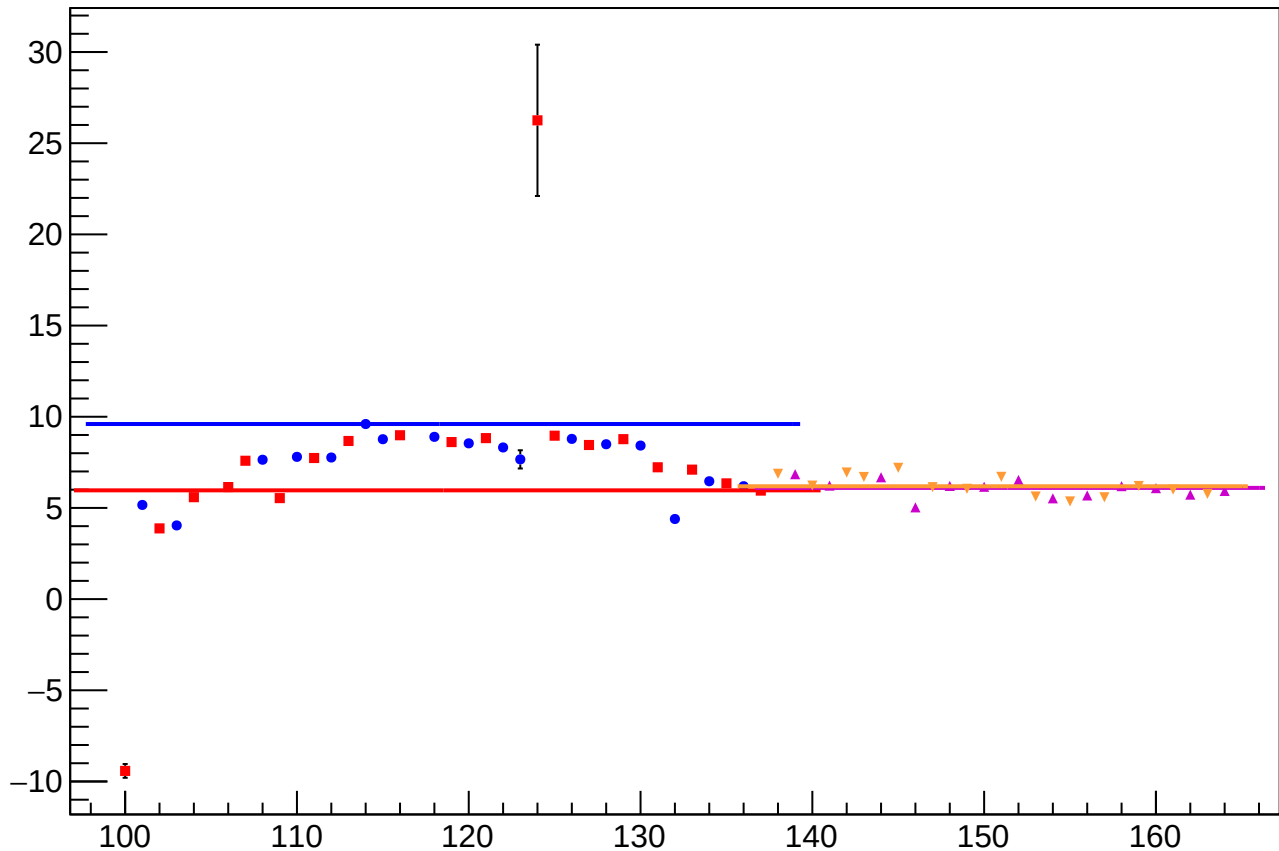
Right: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 231481.1/35

In: 0.393 $\pm$ 0.001  $\chi^2$ /NDF: 15122.0/29

Out: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 2308623.4/32

All: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 4876150.5/62

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 377404.1/16

Left Out: 6.188 $\pm$ 0.002  $\chi^2$ /NDF: 25251.7/13

Right Out: 5.964 $\pm$ 0.000  $\chi^2$ /NDF: 206785.7/18

Left In: 6.099 $\pm$ 0.002  $\chi^2$ /NDF: 28793.3/12

Left: 6.137 $\pm$ 0.001  $\chi^2$ /NDF: 55216.0/26

Right: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 80252009.2/35

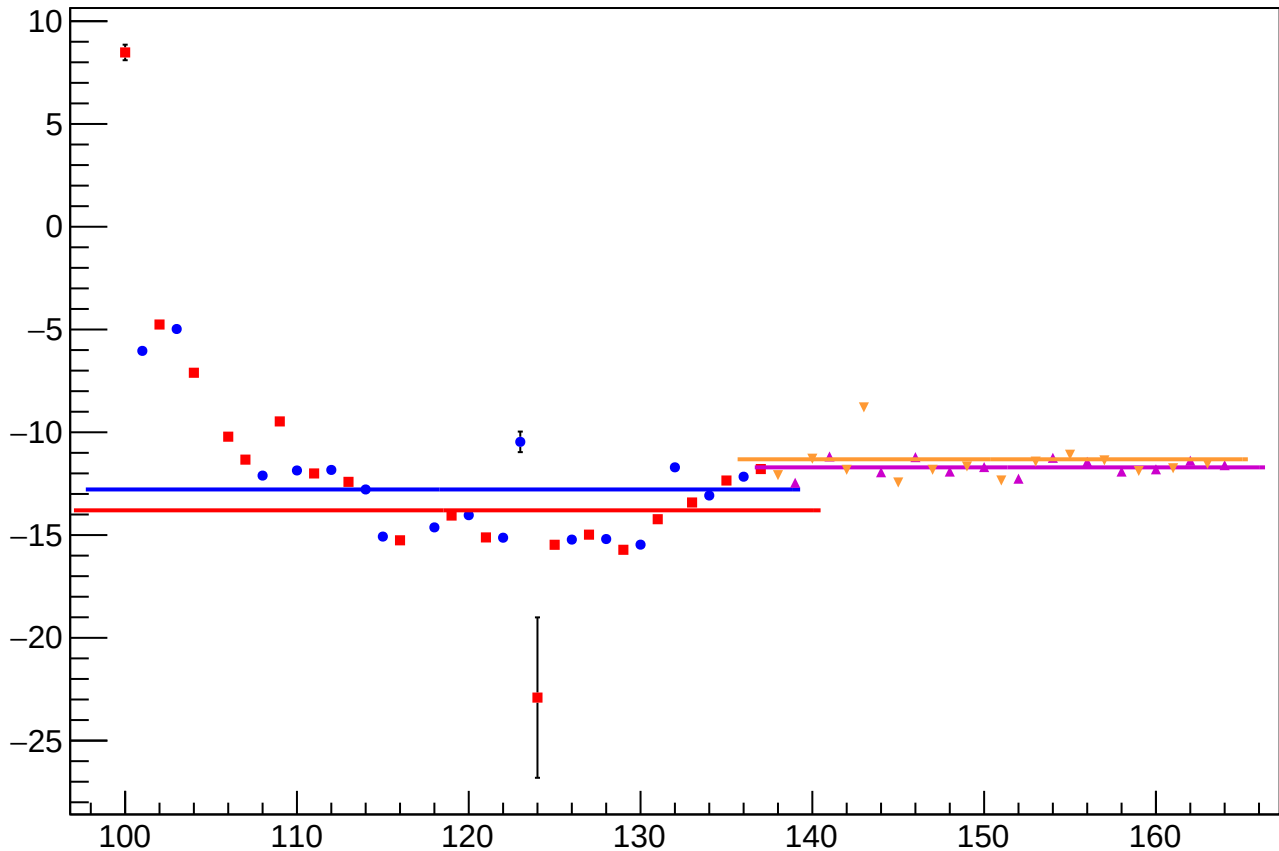
In: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 4674700.6/29

Out: 5.973 $\pm$ 0.000  $\chi^2$ /NDF: 244480.7/32

All: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 87594179.9/62



# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 122716.4/16

Left Out:  $-11.314 \pm 0.003$   $\chi^2/\text{NDF}$ : 173080.6/13

Right Out:  $-13.797 \pm 0.005$   $\chi^2/\text{NDF}$ : 78174.8/18

Left In:  $-11.707 \pm 0.002$   $\chi^2/\text{NDF}$ : 13054.6/12

Left:  $-11.526 \pm 0.002$   $\chi^2/\text{NDF}$ : 198872.1/26

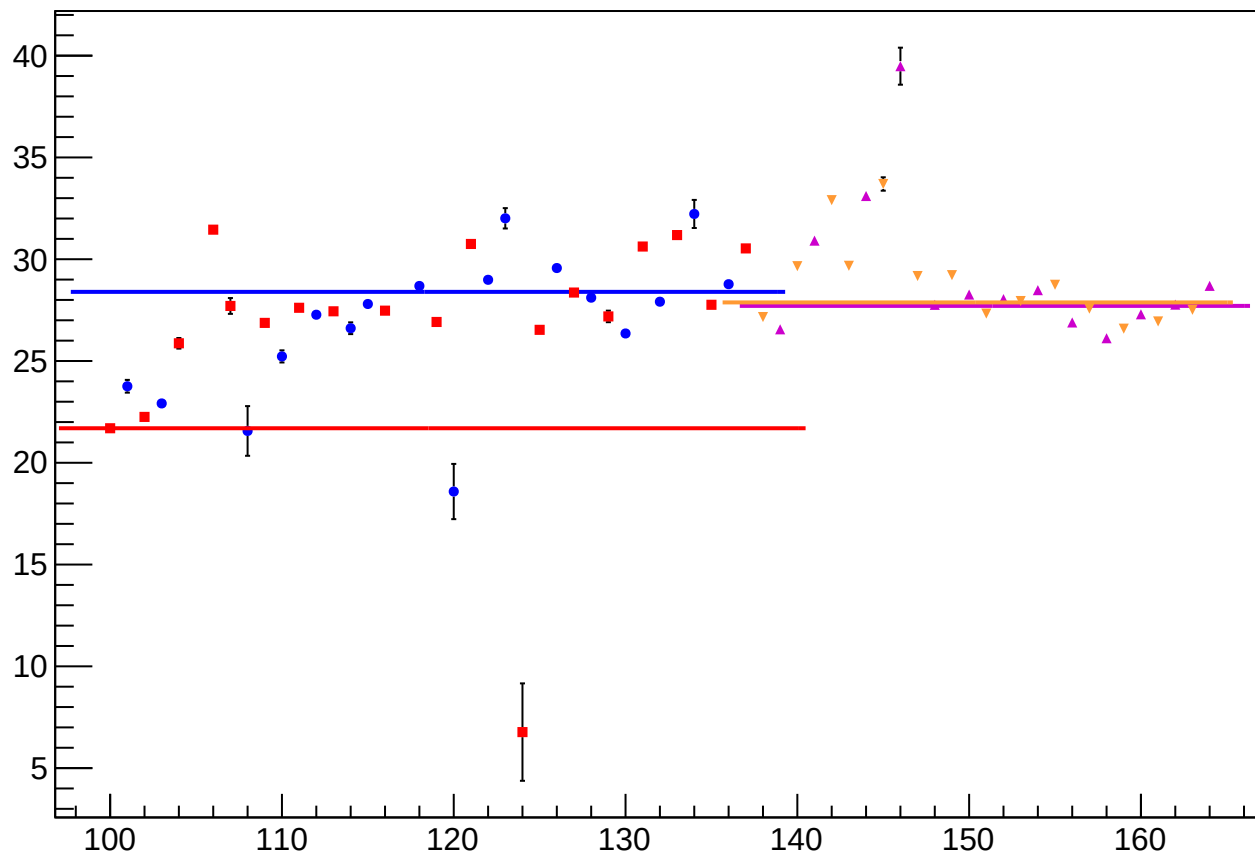
Right:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 236656.7/35

In:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 343396.2/29

Out:  $-11.774 \pm 0.002$   $\chi^2/\text{NDF}$ : 425482.2/32

All:  $-12.781 \pm 0.000$   $\chi^2/\text{NDF}$ : 958828.5/62

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In:  $28.396 \pm 0.024$   $\chi^2/\text{NDF}: 3440.8/16$

Left Out:  $27.878 \pm 0.021$   $\chi^2/\text{NDF}: 3492.4/13$

Right Out:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}: 46617.3/18$

Left In:  $27.708 \pm 0.017$   $\chi^2/\text{NDF}: 4635.4/12$

Left:  $27.773 \pm 0.013$   $\chi^2/\text{NDF}: 8166.9/26$

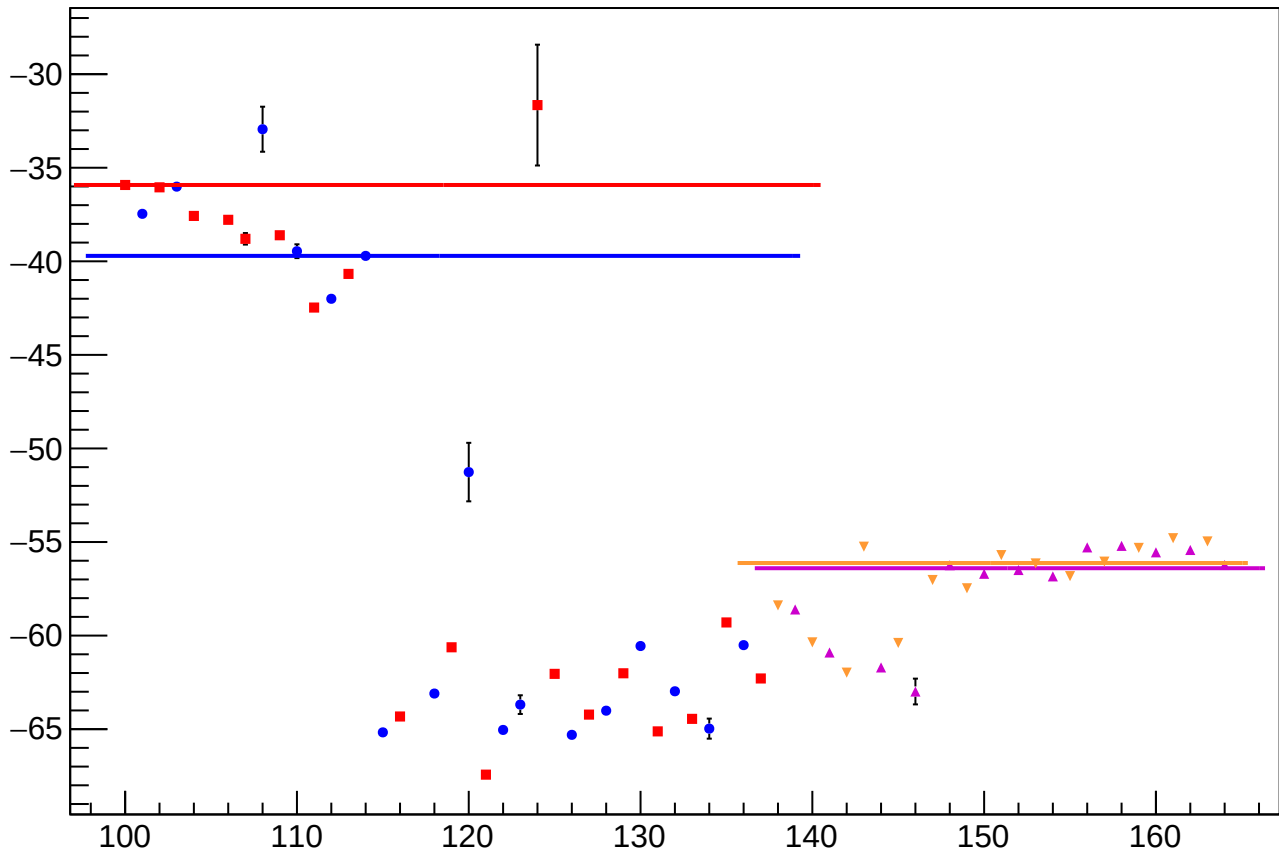
Right:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}: 125672.7/35$

In:  $27.931 \pm 0.014$   $\chi^2/\text{NDF}: 8616.3/29$

Out:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}: 133600.1/32$

All:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}: 344141.8/62$

# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-39.710 \pm 0.000$   $\chi^2/\text{NDF}: 1354716.8/16$

Left Out:  $-56.121 \pm 0.018$   $\chi^2/\text{NDF}: 6444.8/13$

Right Out:  $-35.921 \pm 0.000$   $\chi^2/\text{NDF}: 719212.9/18$

Left In:  $-56.400 \pm 0.014$   $\chi^2/\text{NDF}: 8062.3/12$

Left:  $-56.294 \pm 0.011$   $\chi^2/\text{NDF}: 14653.6/26$

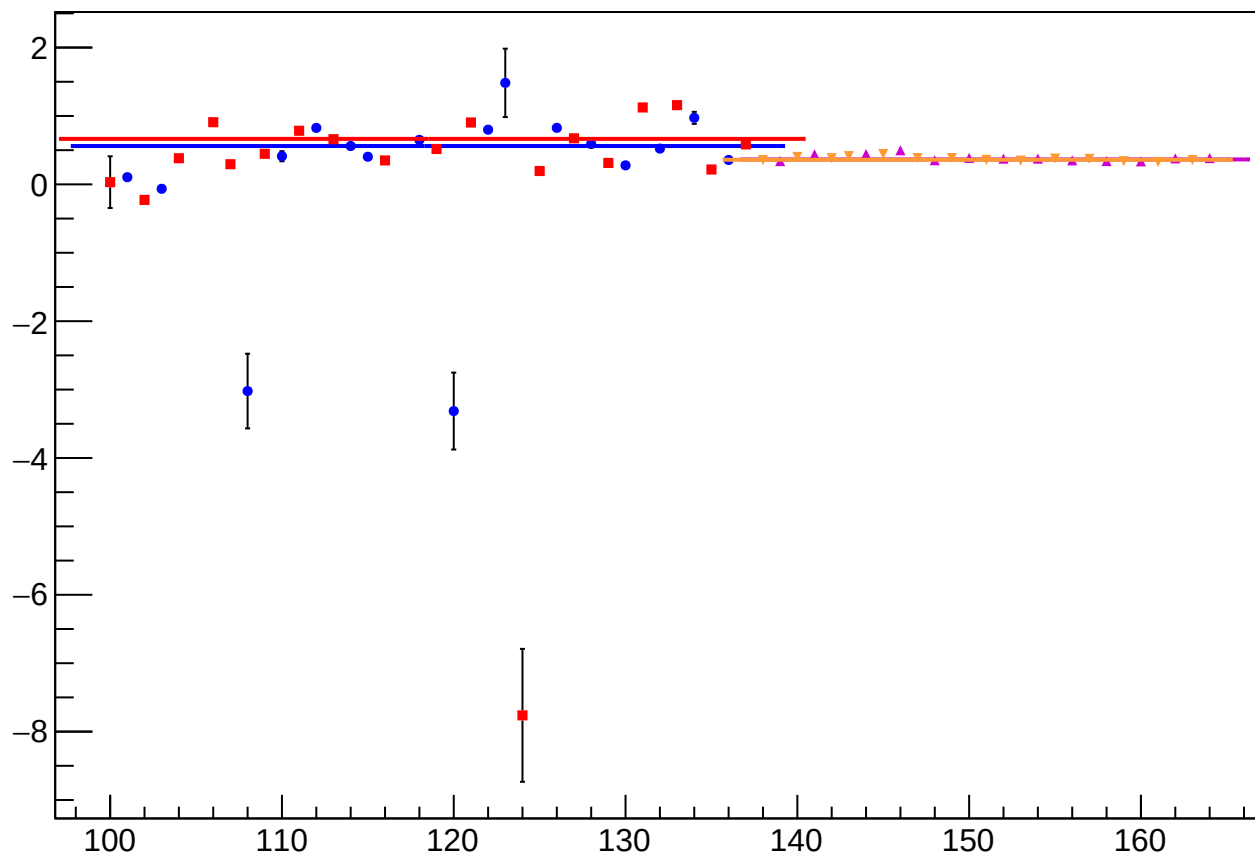
Right:  $-38.373 \pm 0.000$   $\chi^2/\text{NDF}: 110369434011630$

In:  $-39.710 \pm 0.000$   $\chi^2/\text{NDF}: 2734830.2/29$

Out:  $-35.921 \pm 0.000$   $\chi^2/\text{NDF}: 1968803.8/32$

All:  $-38.373 \pm 0.000$   $\chi^2/\text{NDF}: 110369434011$

# 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:3595.1/13

Right Out: 0.665 $\pm$ 0.005  $\chi^2$ /NDF: 3781.5/18

Left In: 0.364 $\pm$ 0.000  $\chi^2$ /NDF:4986.0/12

Left: 0.362 $\pm$ 0.000  $\chi^2$ /NDF: 8645.9/26

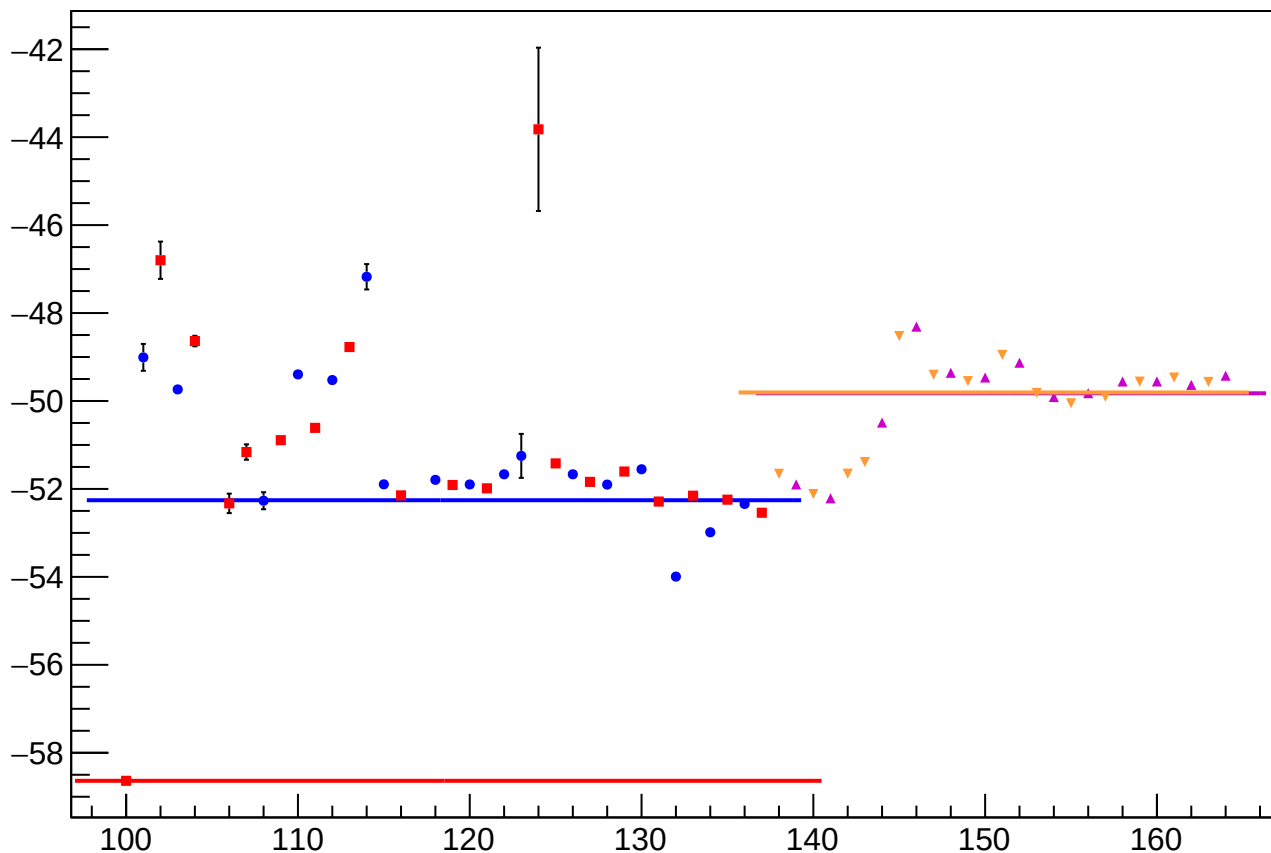
Right: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 21167.9/35

In: 0.561 $\pm$ 0.000  $\chi^2$ /NDF:307671.4/29

Out: 0.362 $\pm$ 0.000  $\chi^2$ /NDF:11753.4/32

All: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 548203.6/62

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.257 \pm 0.004$   $\chi^2/\text{NDF}$ : 24373.7/16

Left Out:  $-49.806 \pm 0.002$   $\chi^2/\text{NDF}$ : 156511.3/13

Right Out:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 31280742.9/18

Left In:  $-49.825 \pm 0.002$   $\chi^2/\text{NDF}$ : 233666.8/12

Left:  $-49.816 \pm 0.001$   $\chi^2/\text{NDF}$ : 390240.5/26

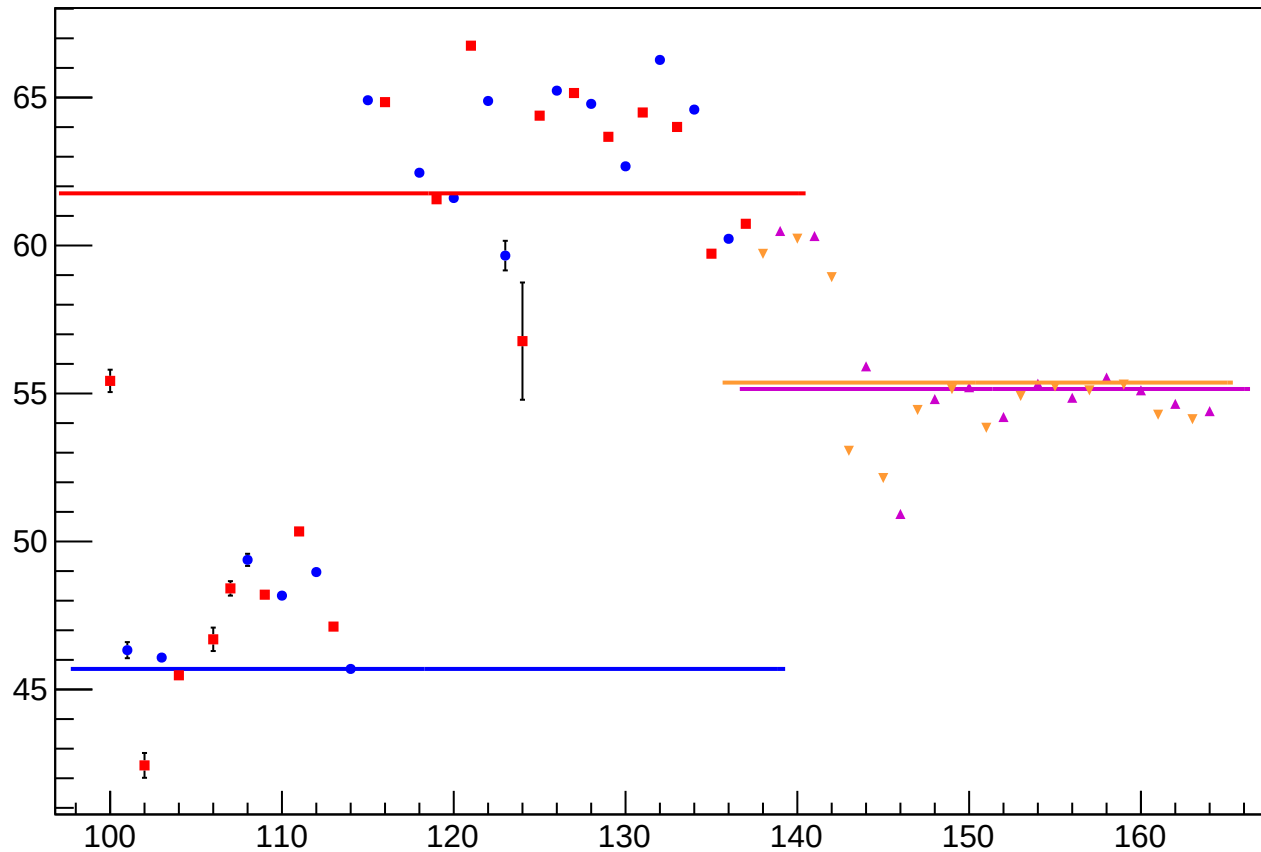
Right:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 34369113.8/35

In:  $-50.219 \pm 0.001$   $\chi^2/\text{NDF}$ : 631097.7/29

Out:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 57930477.4/32

All:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 91472320.7/62

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 3571709.5/16

Left Out: 55.369 $\pm$ 0.004  $\chi^2$ /NDF: 291721.5/13

Right Out: 61.762 $\pm$ 0.006  $\chi^2$ /NDF: 260089.5/18

Left In: 55.152 $\pm$ 0.003  $\chi^2$ /NDF: 62519.3/12

Left: 55.246 $\pm$ 0.002  $\chi^2$ /NDF: 356411.7/26

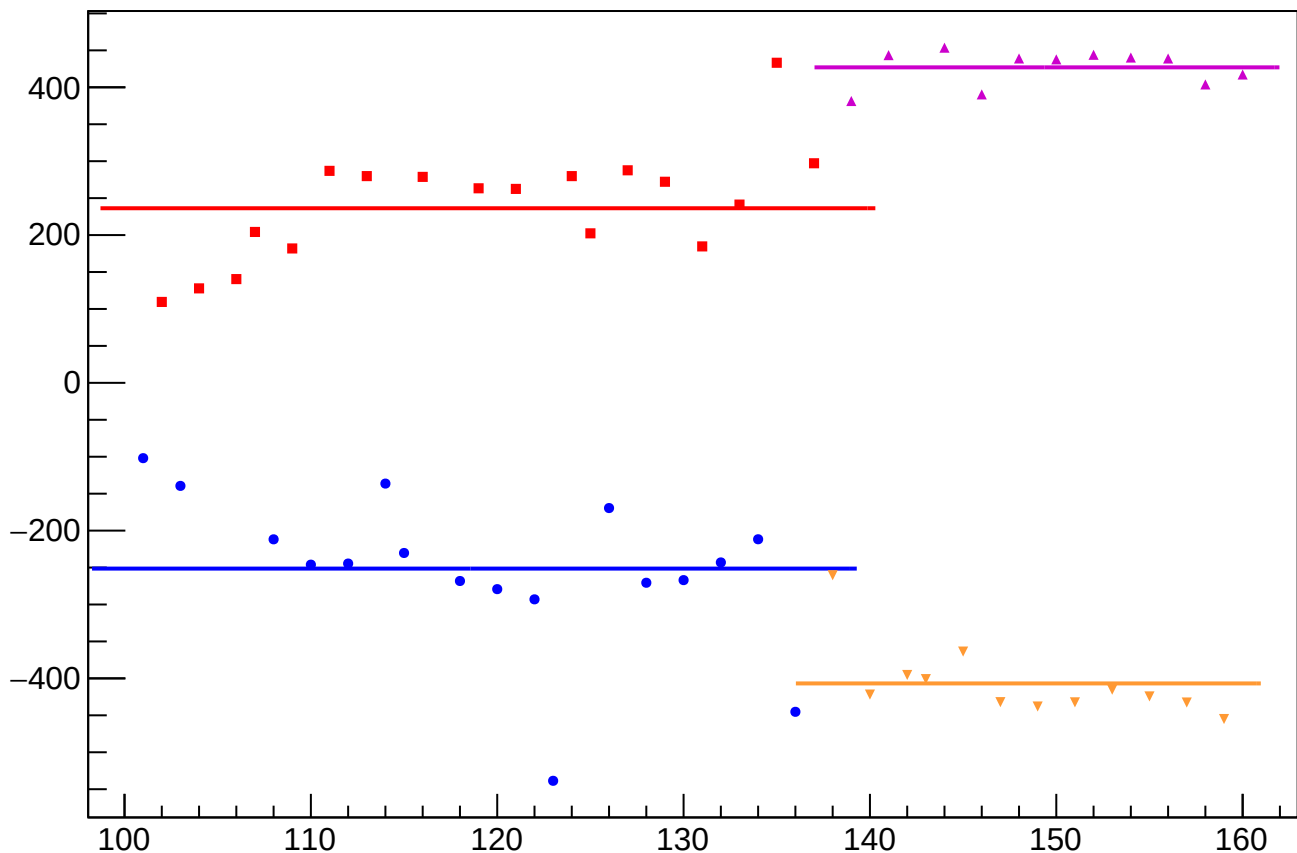
Right: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 10184097.2/35

In: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 13254509.2/29

Out: 56.850 $\pm$ 0.003  $\chi^2$ /NDF: 1324553.8/32

All: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 27796737.2/62

dit\_4aX\_coil1\_mean vs Slug, Sign Corrected



Right In: -251.407 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 6377716677142803615785313646231420928.0/16

Left Out: -406.833 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 2292767804308975563331061576326184960.0/11

Right Out: 236.305 $\pm$ 0.000

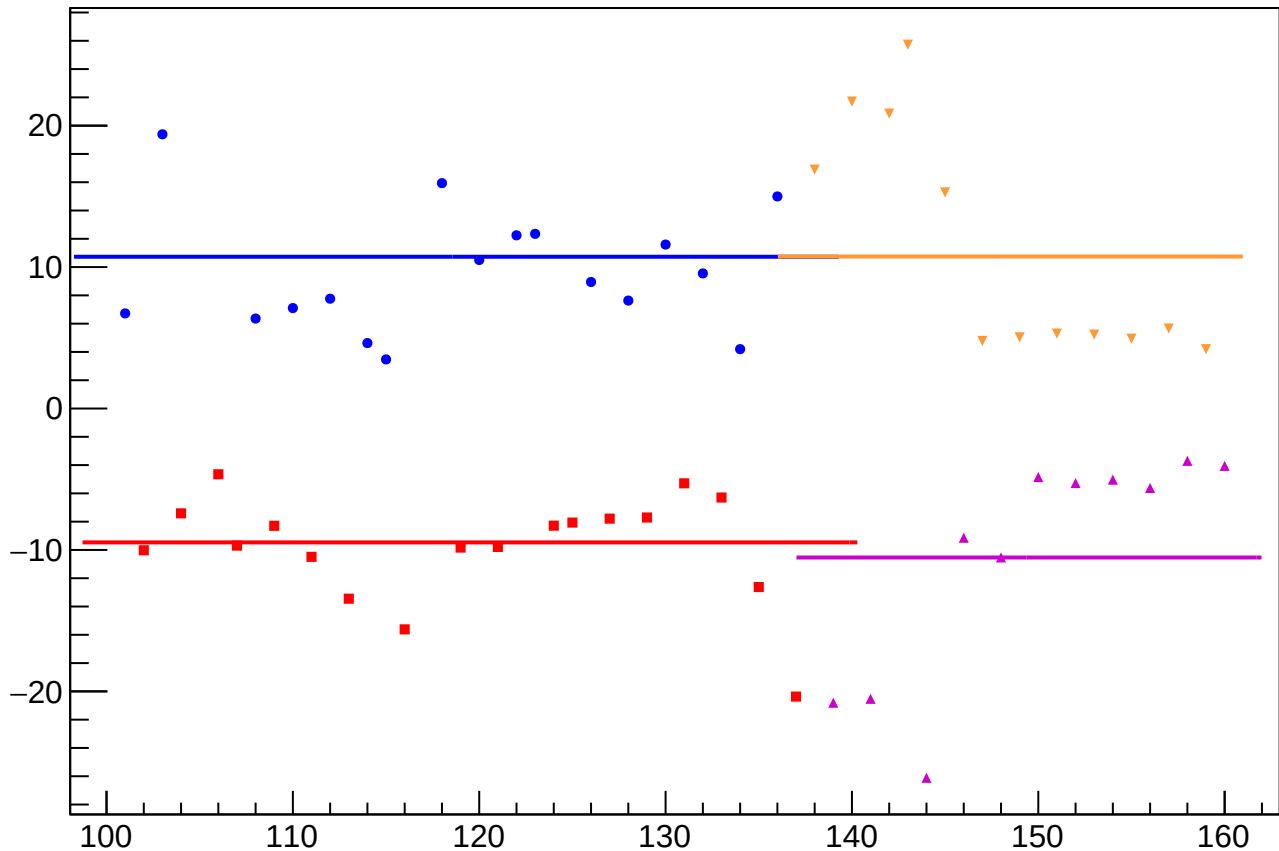
$\chi^2/\text{NDF}$ : 4583669398649017152985031455186878464.0/17

Left In: 426.999 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 491897519091150809282810233728532480.0/10

Left: 15.515 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 32290507688952390  
 Right: -3.917 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9473030910379414.  
 In: 137.624 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 19003095258773893  
 Out: -123.678 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 172412613694126  
 All: 7.093 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 41793683043915

# dit\_4aX\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 10.731+/-0.000

$\chi^2/\text{NDF}$ : 12832156832660883988585211297267712.0/16

Left Out: 10.747+/-0.000

$\chi^2/\text{NDF}$ : 52568555520200298220372681258172416.0/11

Right Out: -9.465+/-0.000

$\chi^2/\text{NDF}$ : 6964289429474711338503750841008128.0/17

Left In: -10.535+/-0.000

$\chi^2/\text{NDF}$ : 56030306294181725597372333160398848.0/10

Left: -0.032+/-0.000  $\chi^2/\text{NDF}$ : 31712978219852070

Right: 0.482+/-0.000  $\chi^2/\text{NDF}$ : 16344309482827227

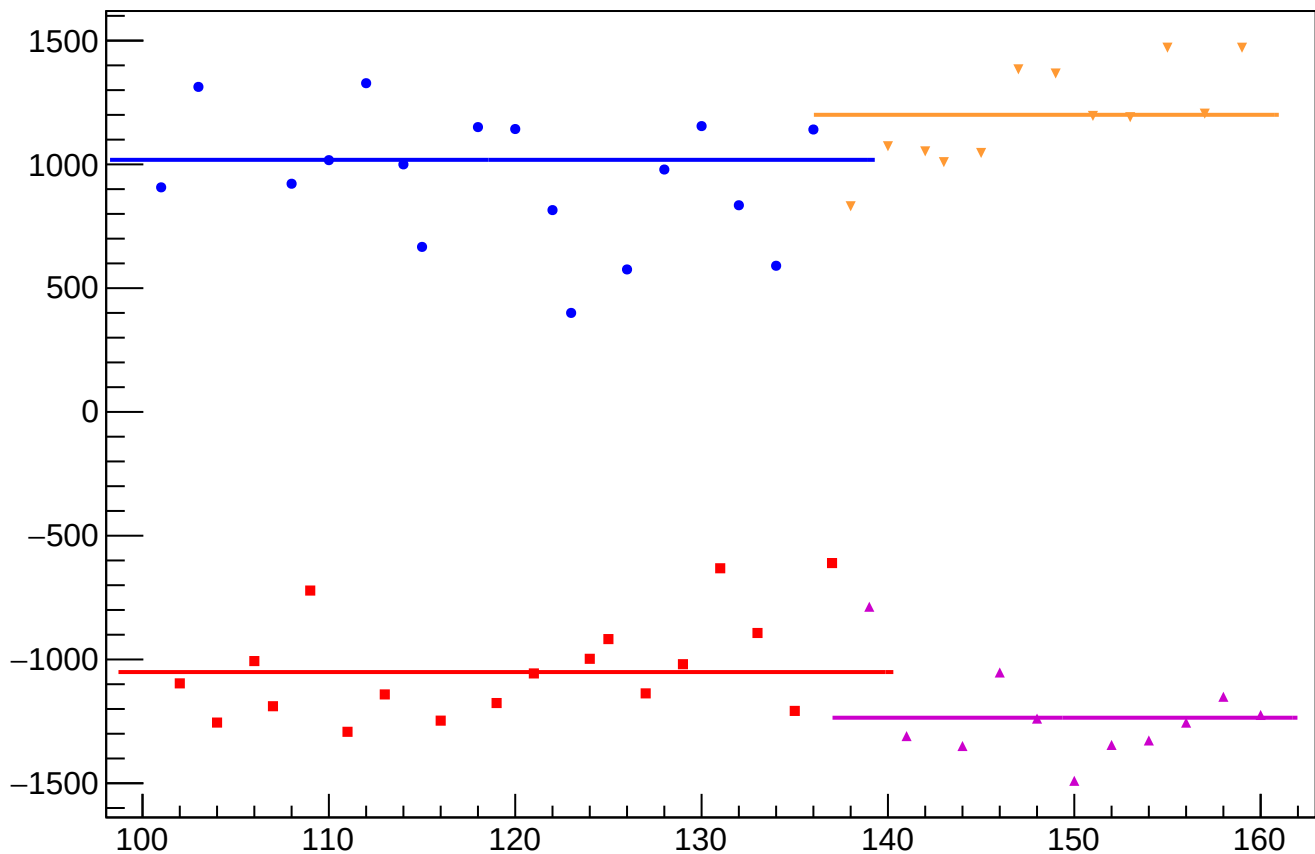
In: -1.464+/-0.000  $\chi^2/\text{NDF}$ : 248837095885974600

Out: 1.848+/-0.000  $\chi^2/\text{NDF}$ : 223032360060445959

All: 0.191+/-0.000  $\chi^2/\text{NDF}$ : 48078445544445

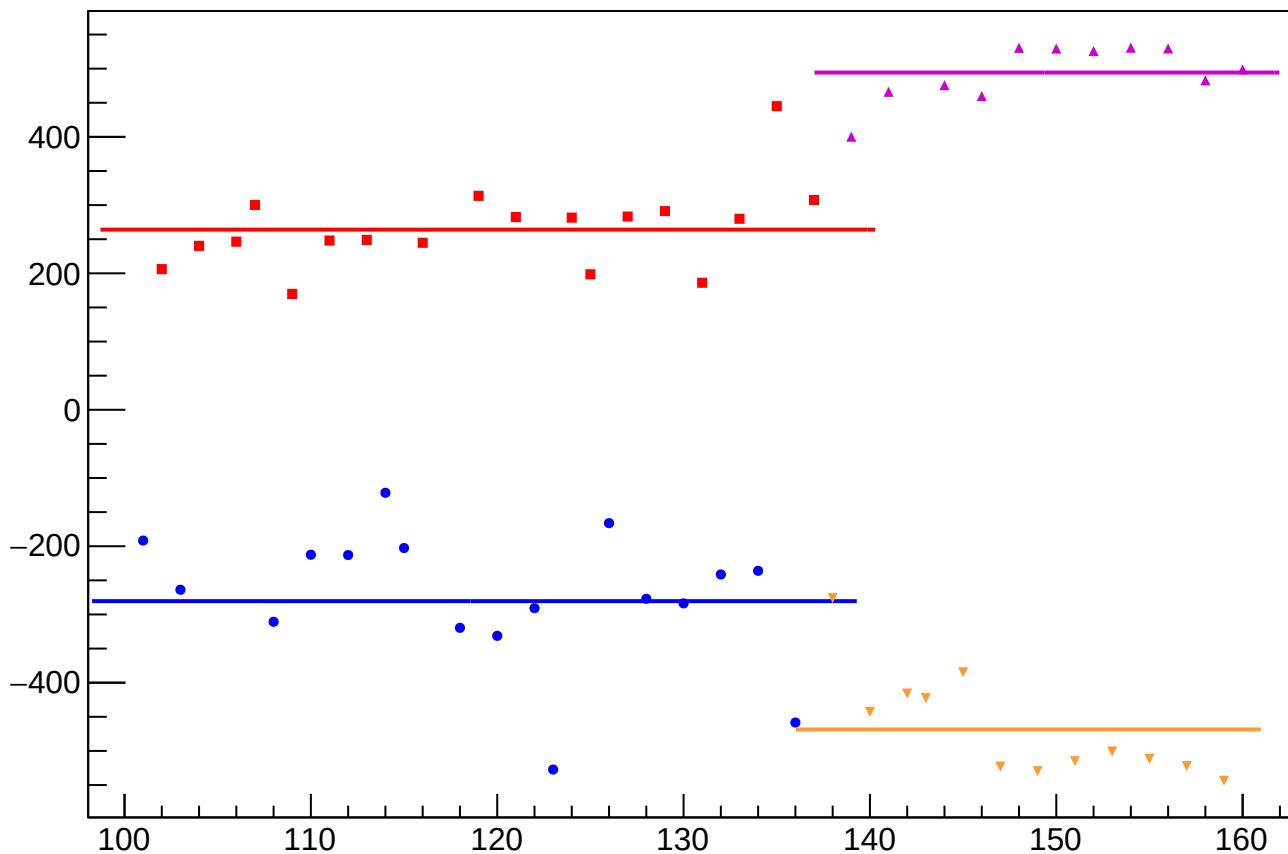


dit\_4aX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| 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

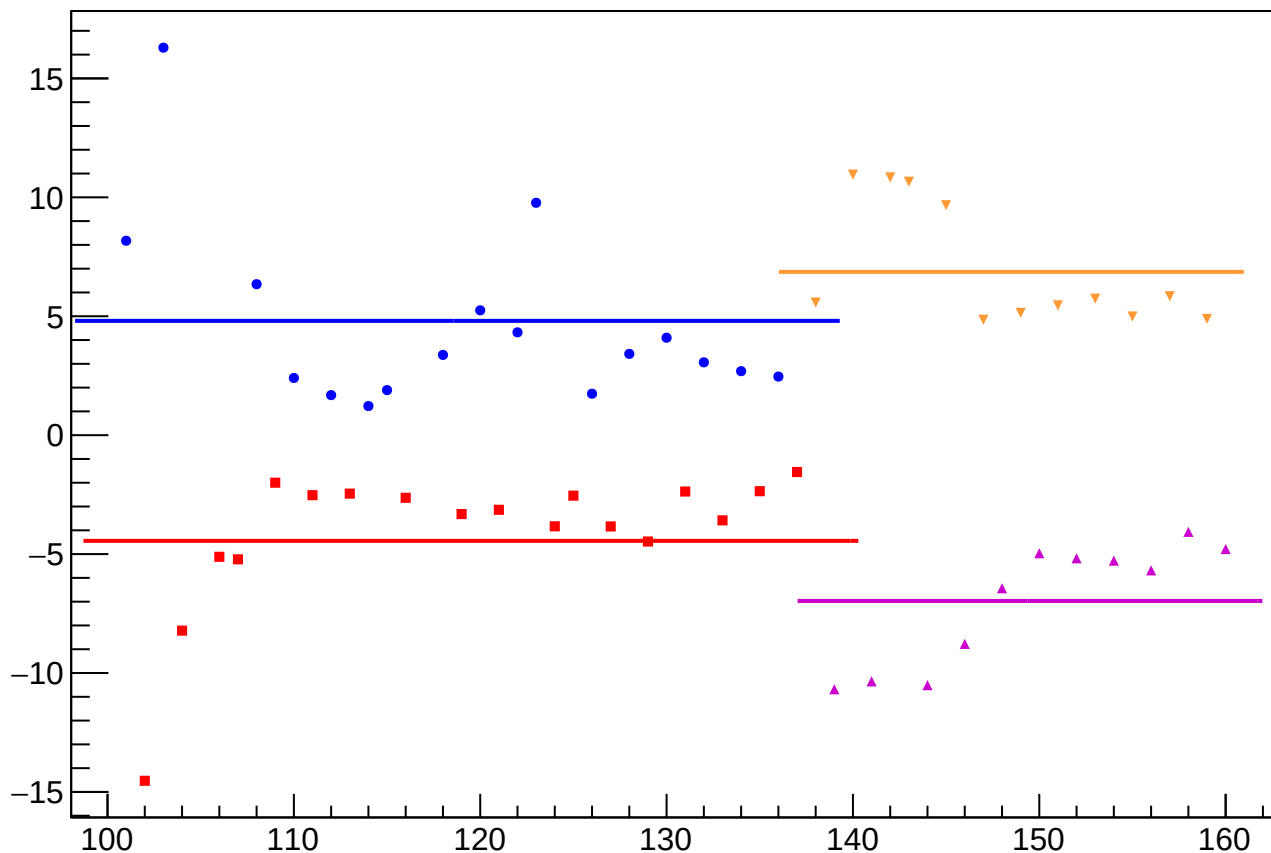
Right: -4.167+/-0.000  $\chi^2/\text{NDF}$ : 1124995033891218

In: 163.807+/-0.000  $\chi^2/\text{NDF}$ : 24547656580890999

Out: -146.027+/-0.000  $\chi^2/\text{NDF}$ : 223127037858541

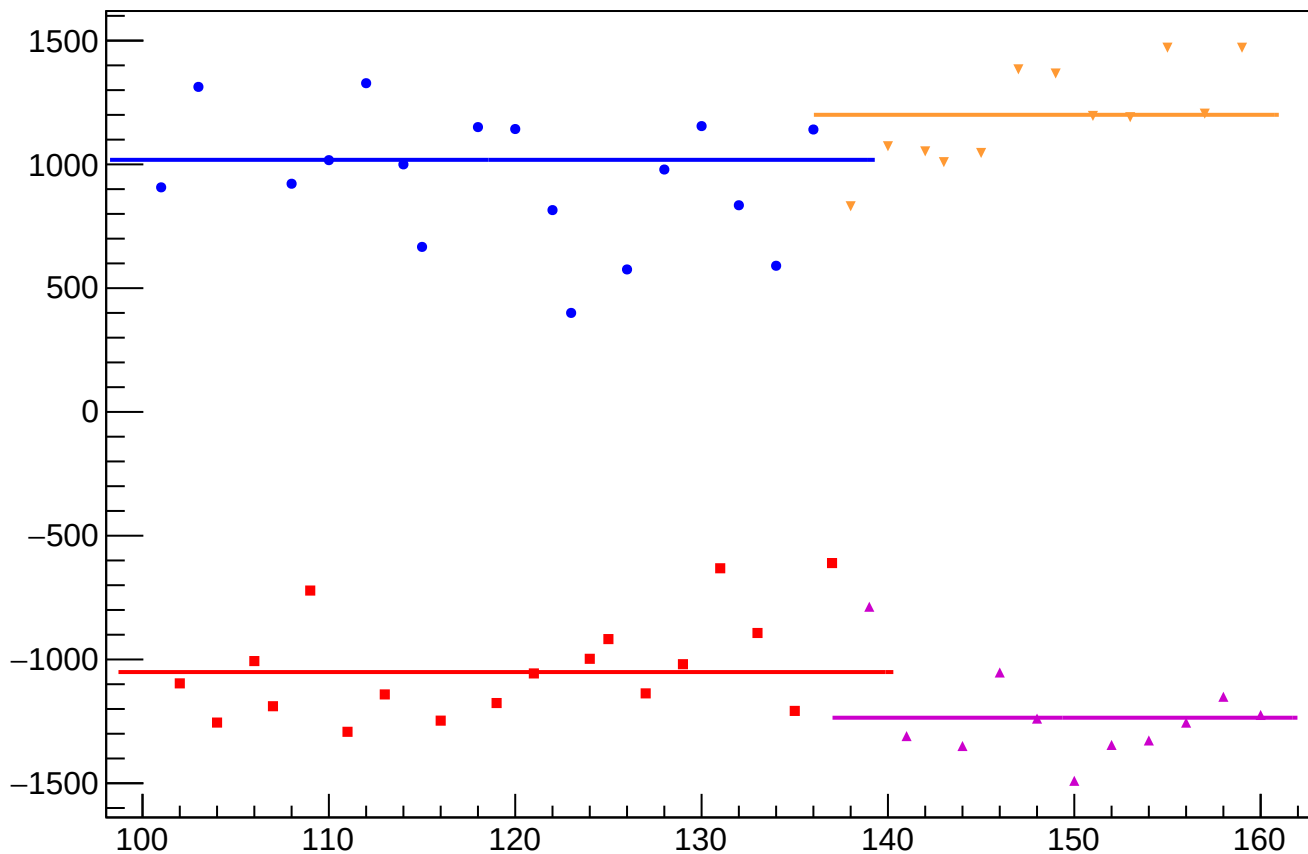
All: 9.033+/-0.000  $\chi^2/\text{NDF}$ : 54662520345172

dit\_4eX\_coil1\_err\_mean vs Slug, Sign Corrected



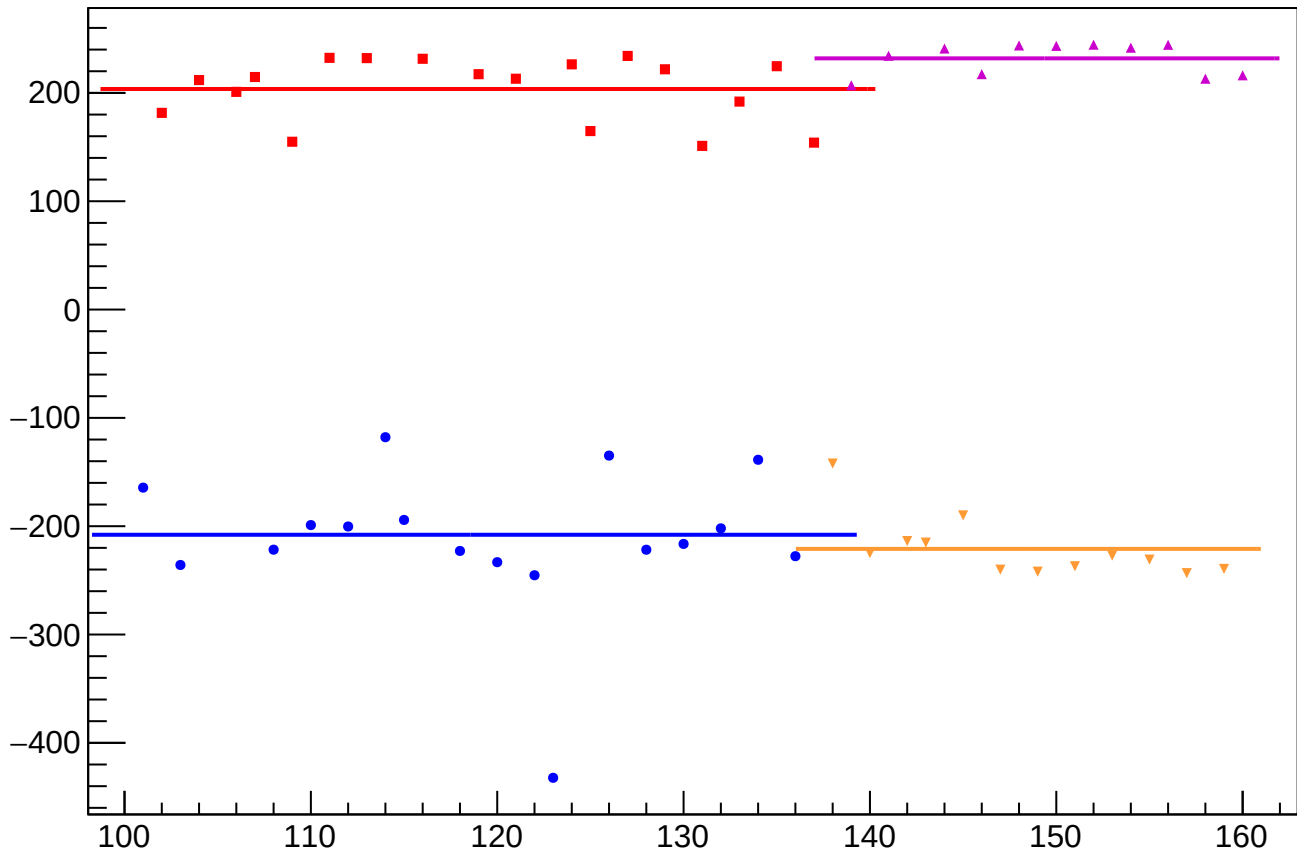
Left:  $-0.142 \pm 0.000$   $\chi^2/\text{NDF}: 99041392723276932$   
 Right In:  $4.806 \pm 0.000$   $\chi^2/\text{NDF}: 10922956451109492621931429310234624.0/16$   
 Left Out:  $6.866 \pm 0.000$   $\chi^2/\text{NDF}: 5299669563995653642636095012208640.0/11$   
 Right Out:  $-4.443 \pm 0.000$   $\chi^2/\text{NDF}: 8238698902114437843582467079929856.0/17$   
 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



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| 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\_11X12X\_coil1\_mean vs Slug, Sign Corrected



Right In: -207.905+/-0.000

$\chi^2/\text{NDF}$ : 932229169633108948090208893374824448.0/16

Left Out: -220.938+/-0.000

$\chi^2/\text{NDF}$ : 725702280929192018663060859751759872.0/11

Right Out: 203.621+/-0.000

$\chi^2/\text{NDF}$ : 555366082114711816530063438779514880.0/17

Left In: 231.896+/-0.000

$\chi^2/\text{NDF}$ : 183329680516479381507897892871864320.0/10

Left: 8.429+/-0.000  $\chi^2/\text{NDF}$ : 953222302961658420.0/16

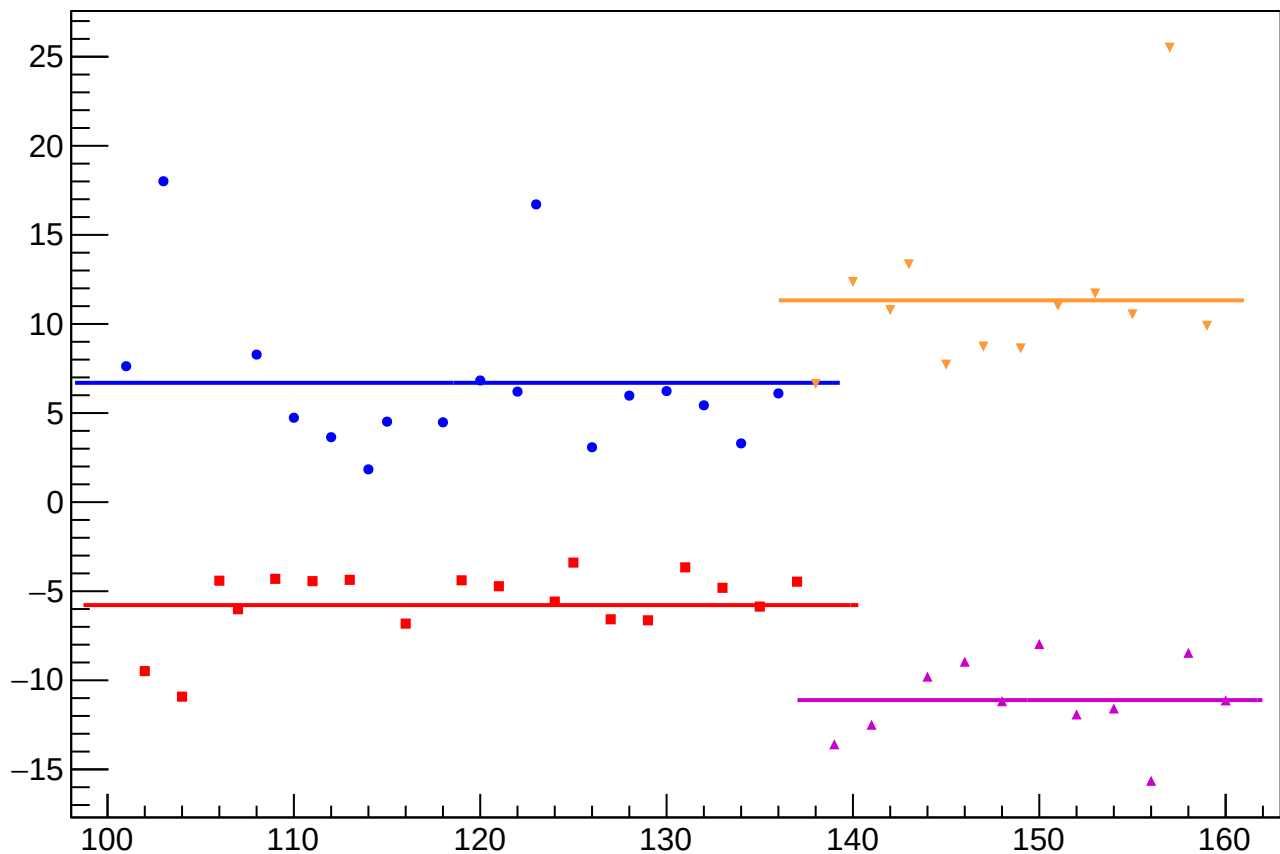
Right: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 61129354546867051.0/16

In: 44.298+/-0.000  $\chi^2/\text{NDF}$ : 780934056728326017.0/16

Out: -34.017+/-0.000  $\chi^2/\text{NDF}$ : 7341842705768315.0/16

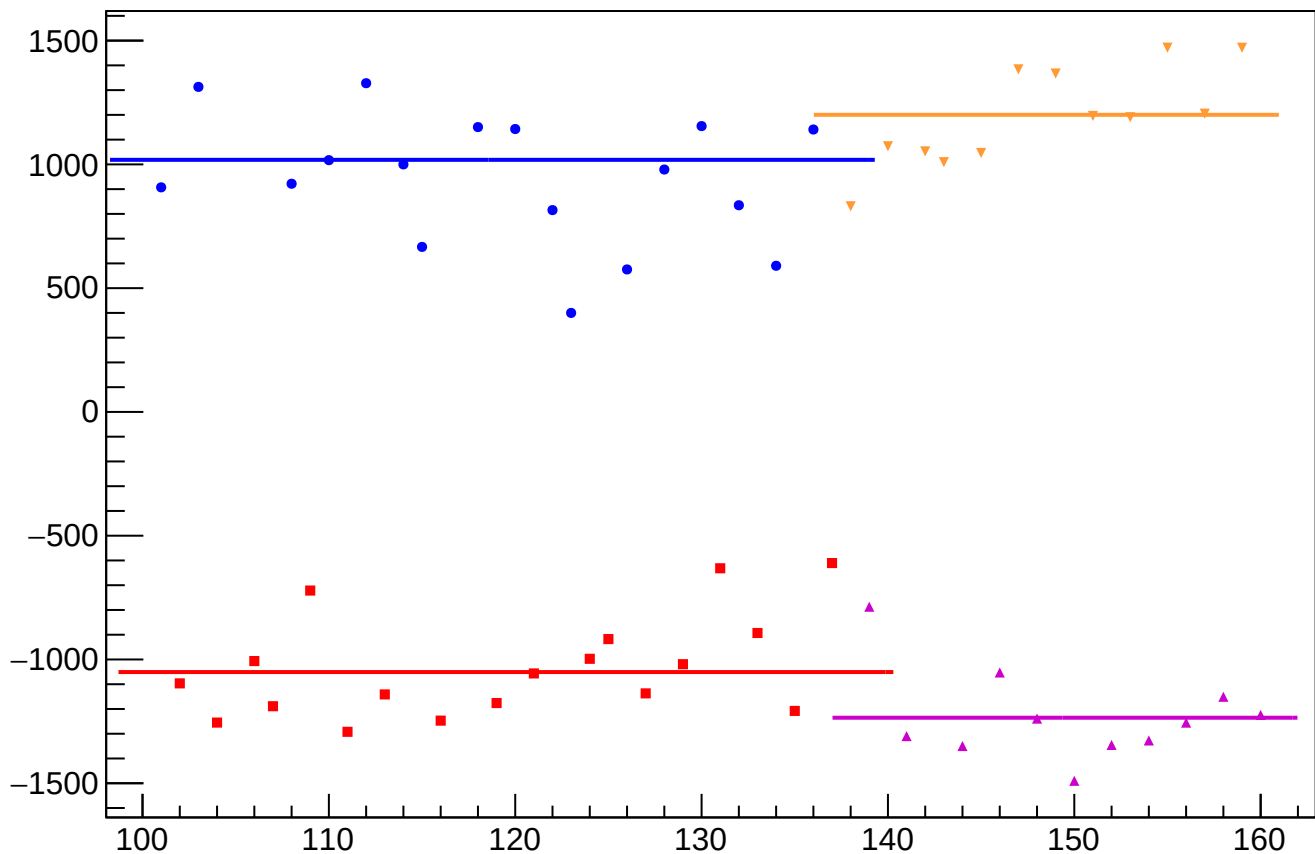
All: 5.177+/-0.000  $\chi^2/\text{NDF}$ : 15649654139583.0/16

dit\_11X12X\_coil1\_err\_mean vs Slug, Sign Corrected



Left: -0.039 +/- 0.000  $\chi^2/\text{NDF}$ : 25552490572073324  
 Right: 0.367 +/- 0.000  $\chi^2/\text{NDF}$ : 68189487523500599  
 In: -3.515 +/- 0.000  $\chi^2/\text{NDF}$ : 140829625935377587  
 Out: 3.795 +/- 0.000  $\chi^2/\text{NDF}$ : 139587745732989815  
 All: 0.137 +/- 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

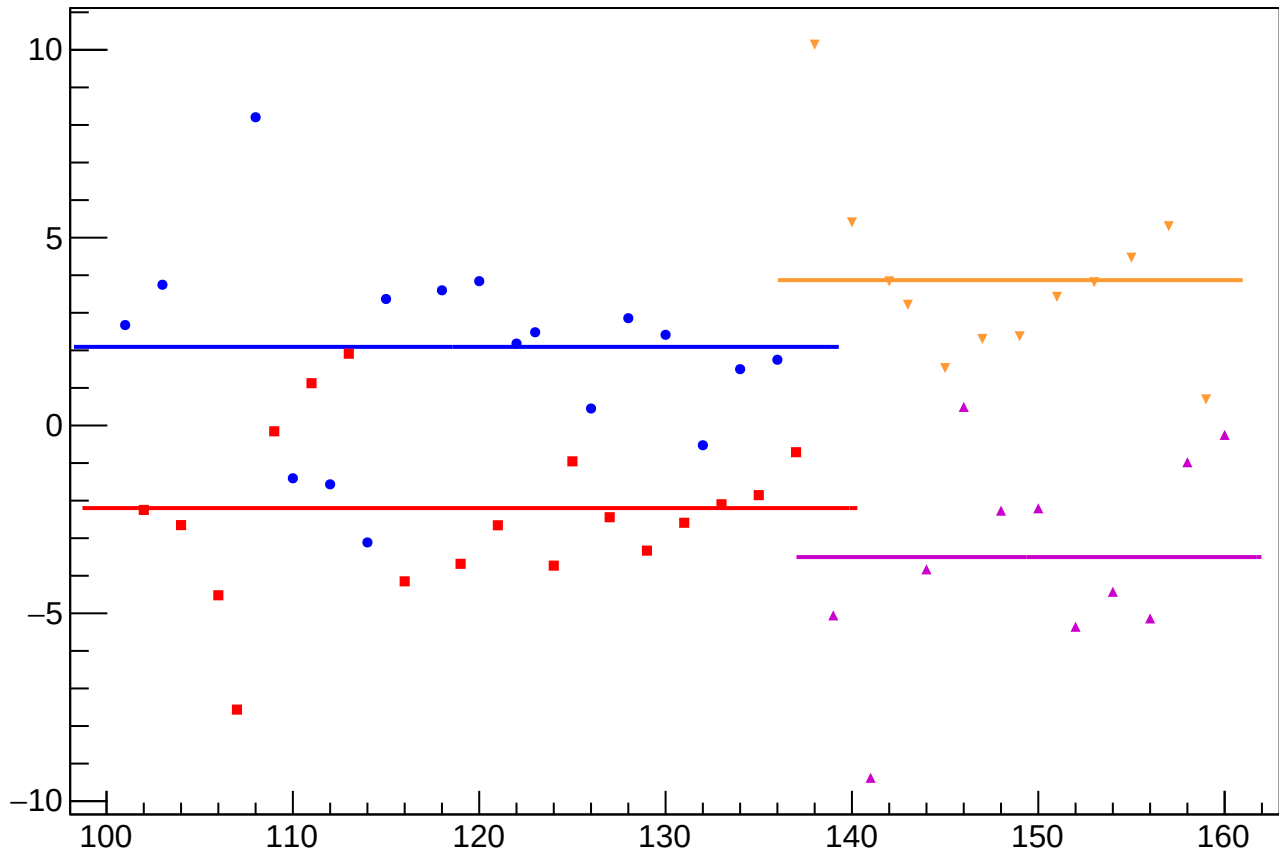
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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+/-0.000

$\chi^2/\text{NDF}$ : 3708588340032367175525218060861440.0/16

Left Out: 3.870+/-0.000

$\chi^2/\text{NDF}$ : 5096895495074779754701121480818688.0/11

Right Out: -2.199+/-0.000

$\chi^2/\text{NDF}$ : 3107113733134423203865144181391360.0/17

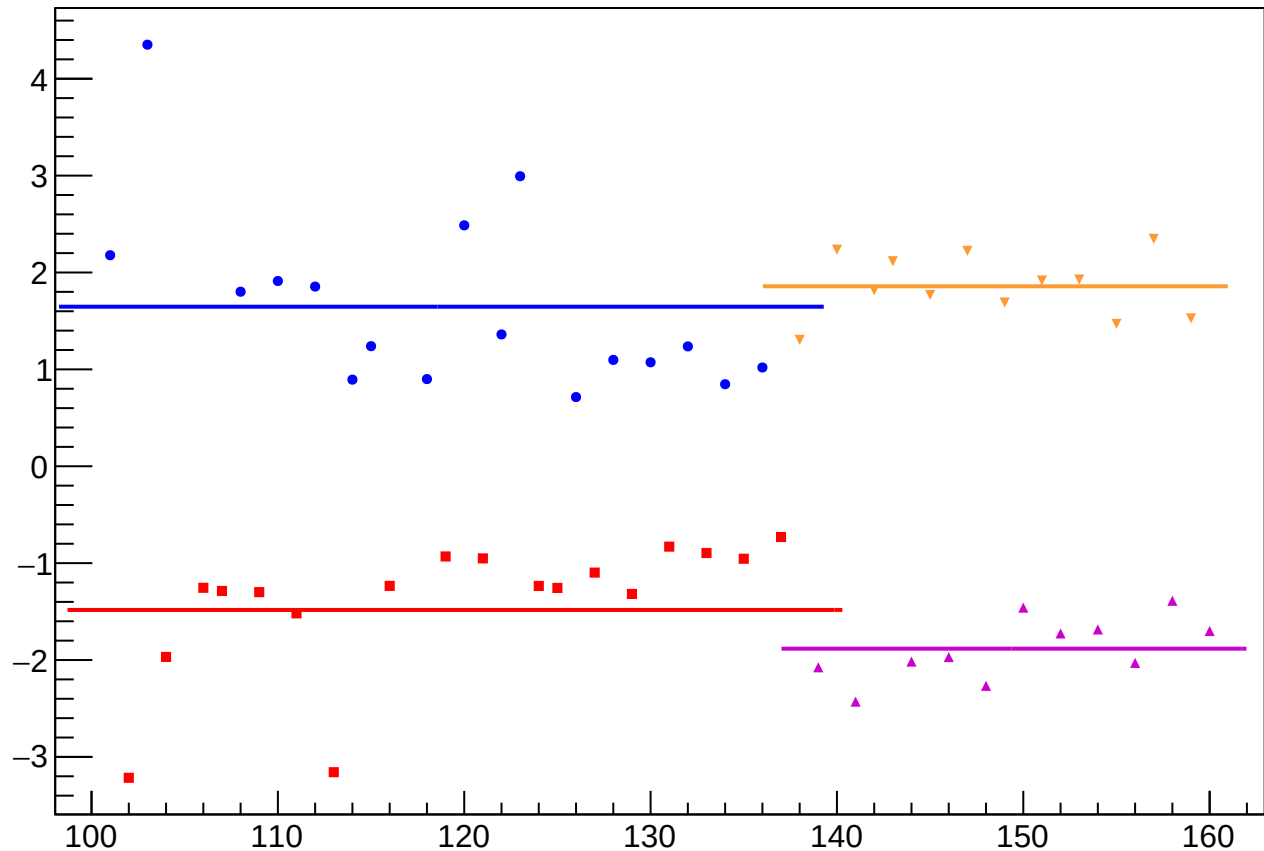
Left In: -3.503+/-0.000

$\chi^2/\text{NDF}$ : 6729958277549549509263051005624320.0/10

Left: 0.135+/-0.000  $\chi^2/\text{NDF}$ : 368509410294214663.0/11  
 Right: -0.085+/-0.000  $\chi^2/\text{NDF}$ : 1330172036915898.0/11  
 In: -1.116+/-0.000  $\chi^2/\text{NDF}$ : 228997943130651727.0/11  
 Out: 1.198+/-0.000  $\chi^2/\text{NDF}$ : 229403467126811658.0/11  
 All: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 50191355697272.0/11

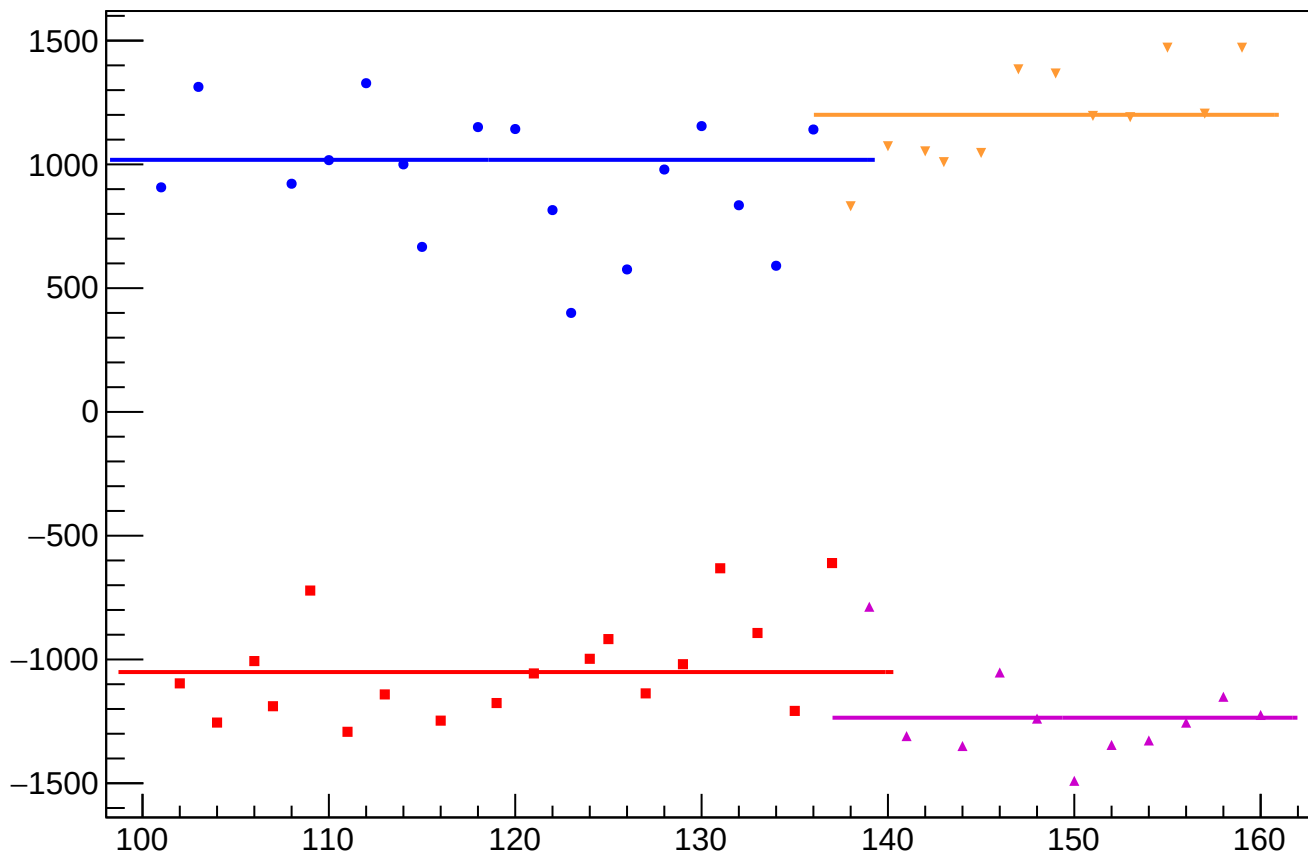


dit\_4aY\_coil1\_err\_mean vs Slug, Sign Corrected



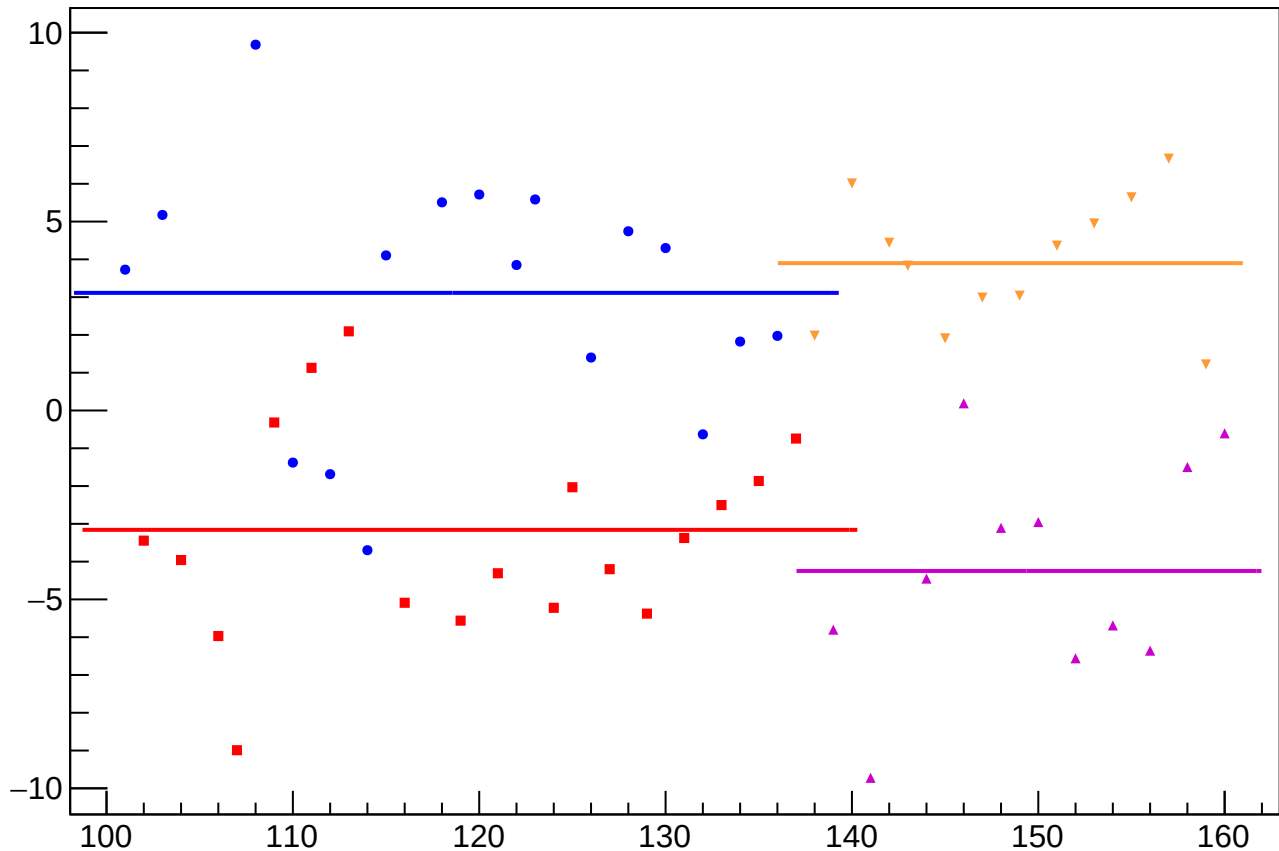
Right In:  $1.647 \pm 0.000$   $\chi^2/\text{NDF}: 651088572320131635658625105526784.0/16$   
 Left Out:  $1.858 \pm 0.000$   $\chi^2/\text{NDF}: 92819096352183662549607808761856.0/11$   
 Right Out:  $-1.483 \pm 0.000$   $\chi^2/\text{NDF}: 413770473105203088009551048343552.0/17$   
 Left In:  $-1.883 \pm 0.000$   $\chi^2/\text{NDF}: 89198060548496721731654669828096.0/10$   
 All:  $0.005 \pm 0.000$   $\chi^2/\text{NDF}: 11145646478182$

dit\_4aY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



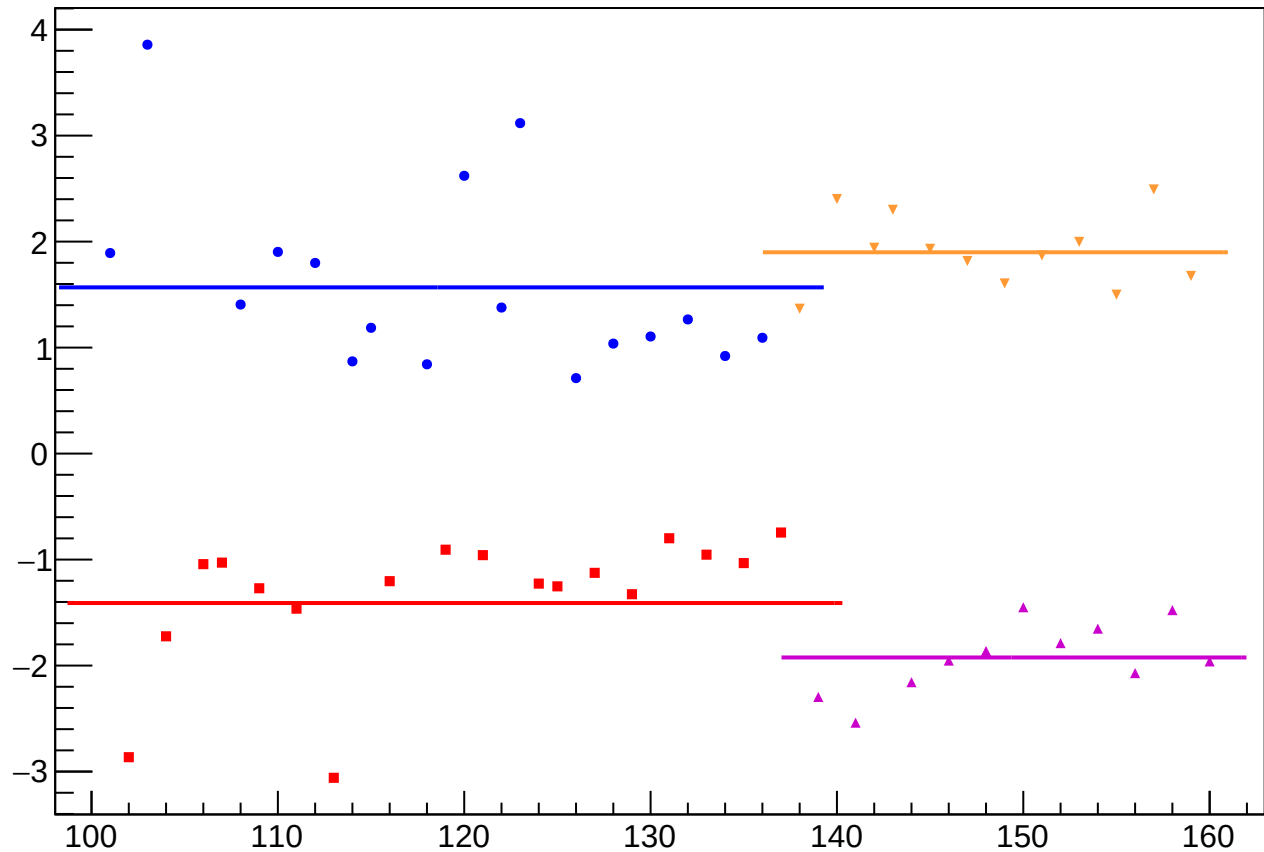
|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| 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



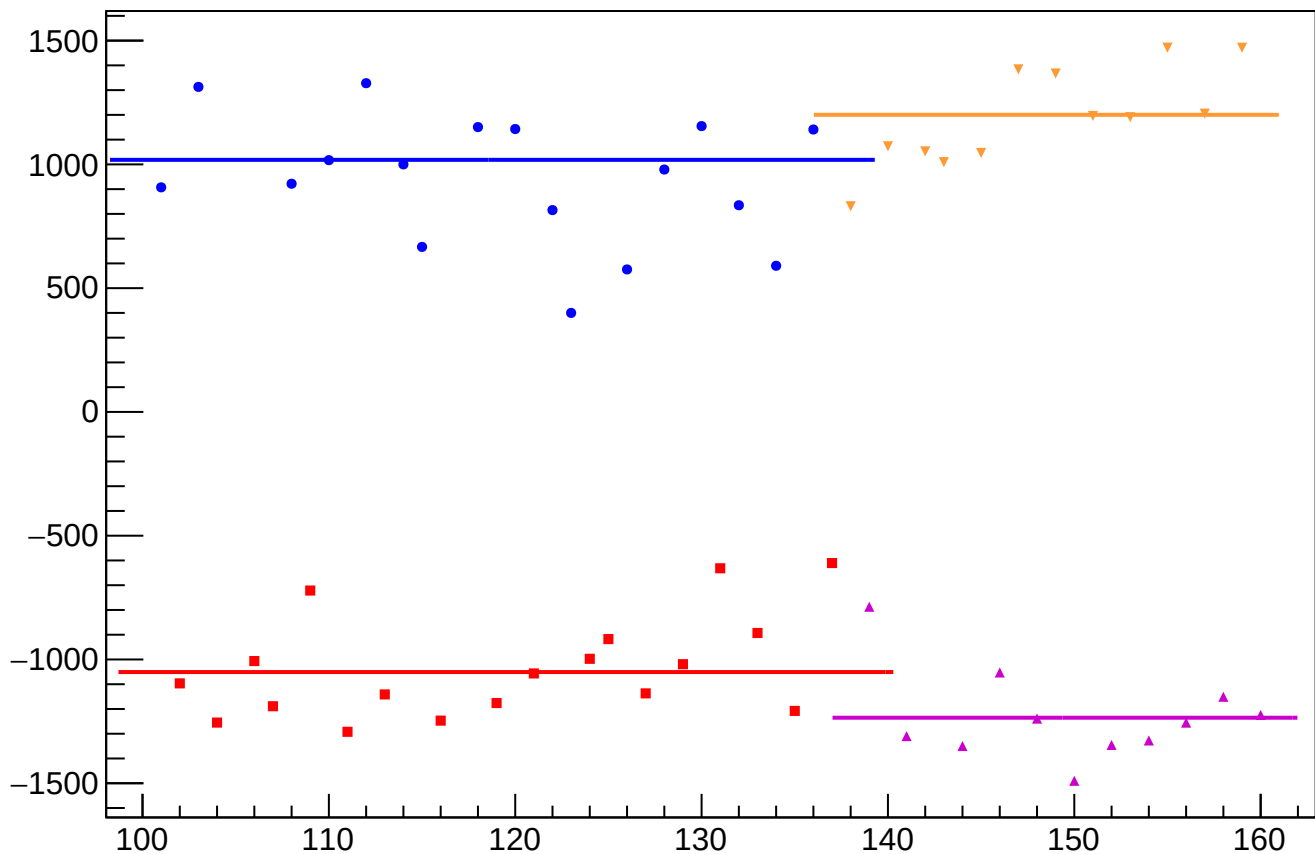
Left: -0.227 +/- 0.000  $\chi^2/\text{NDF}$ : 40514341492675254  
 Right In: 3.113 +/- 0.000  $\chi^2/\text{NDF}$ : 5969364473683453458180416326336512.0/16  
 Right: -0.069 +/- 0.000  $\chi^2/\text{NDF}$ : 2483579584133620  
 Left Out: 3.899 +/- 0.000  $\chi^2/\text{NDF}$ : 2596063476262392643786187397398528.0/11  
 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



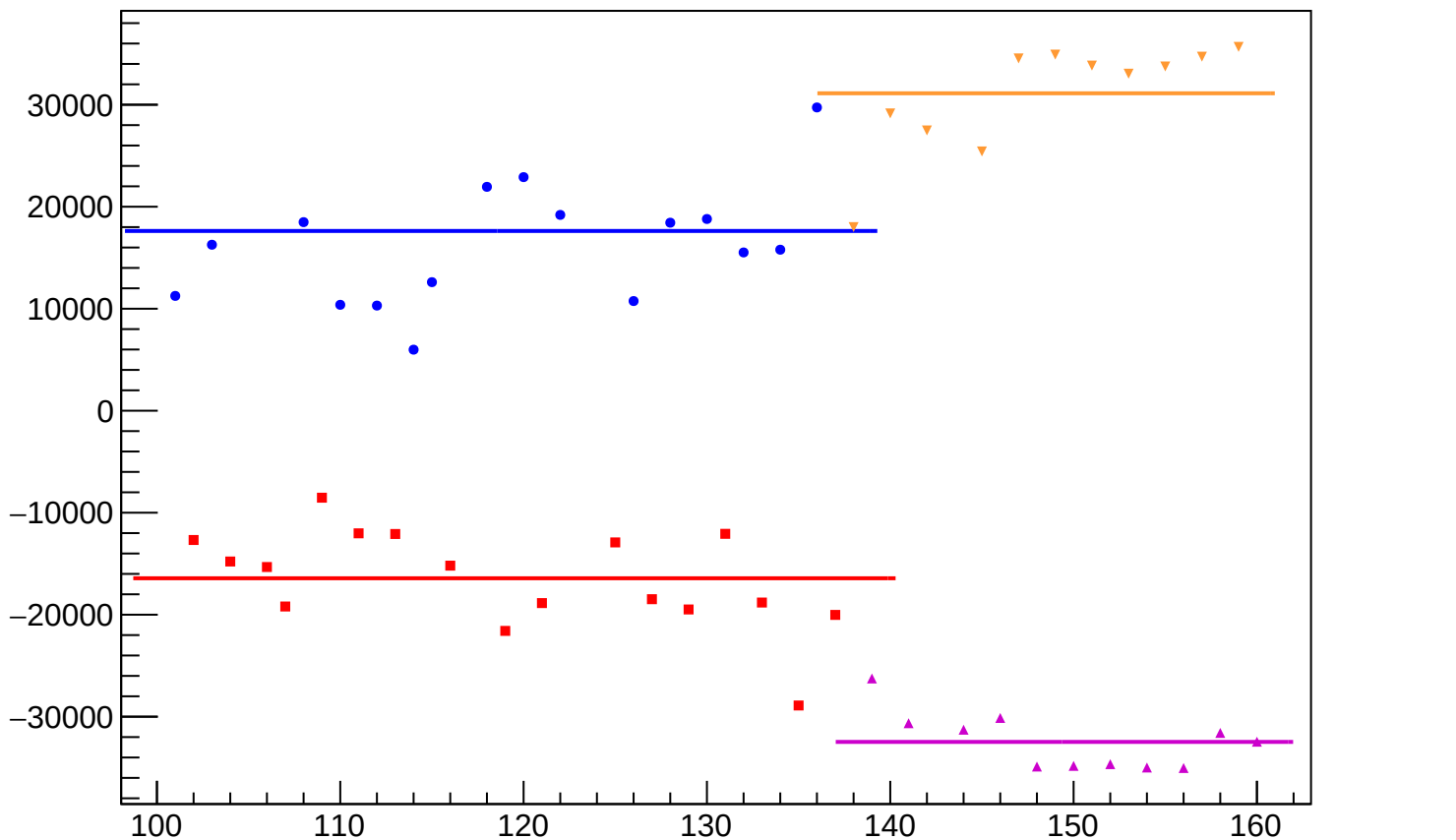
Right In: 1.568 $\pm$ 0.000  $\chi^2$ /NDF: 496968559591870447992286312660992.0/16  
 Left Out: 1.899 $\pm$ 0.000  $\chi^2$ /NDF: 105245400634415170842187400216576.0/11  
 Right Out: -1.410 $\pm$ 0.000  $\chi^2$ /NDF: 328993477679498579442129623318528.0/17  
 Left In: -1.924 $\pm$ 0.000  $\chi^2$ /NDF: 95242962939028869202536503967744.0/10  
 All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 10885569689706

dit\_4eY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



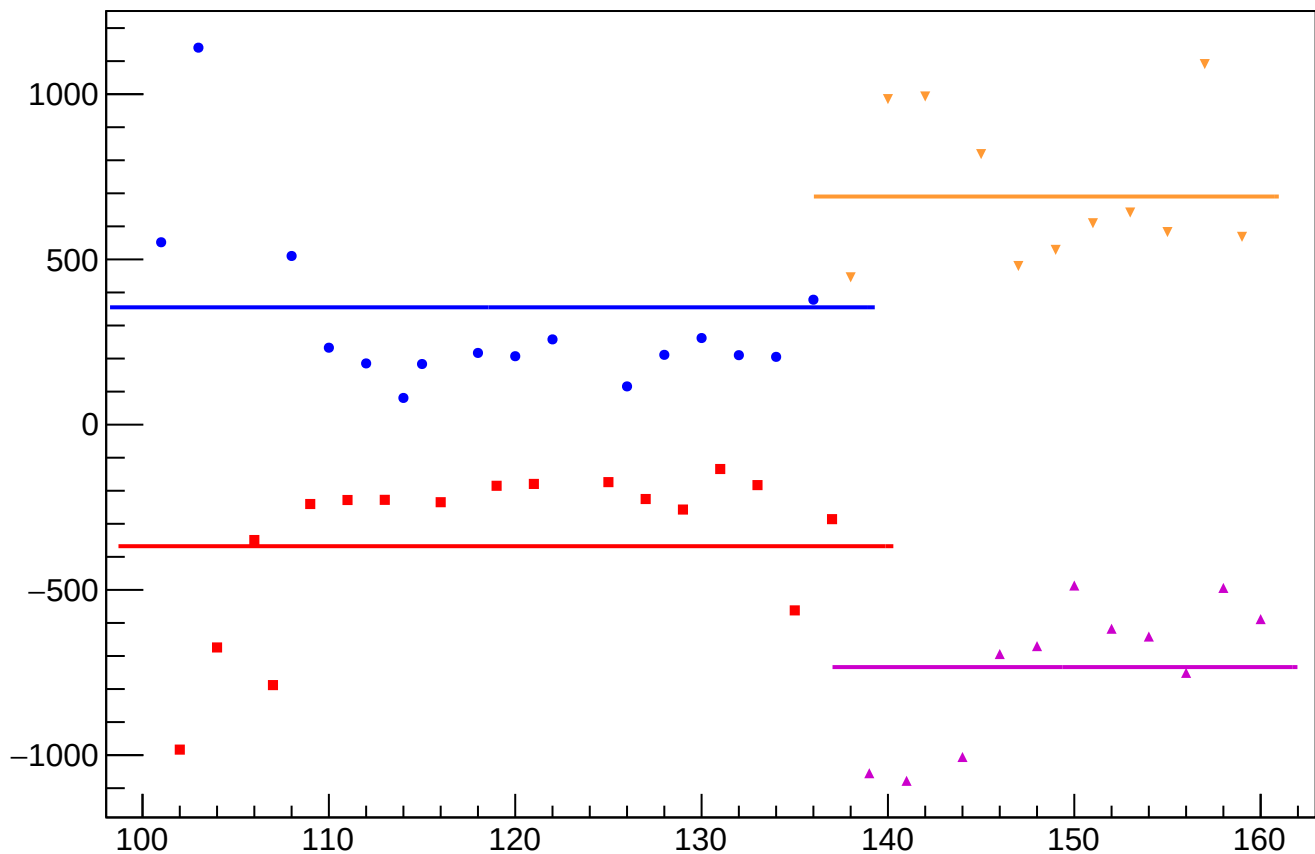
|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: -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\_usl\_coil1\_mean vs Slug, Sign Corrected



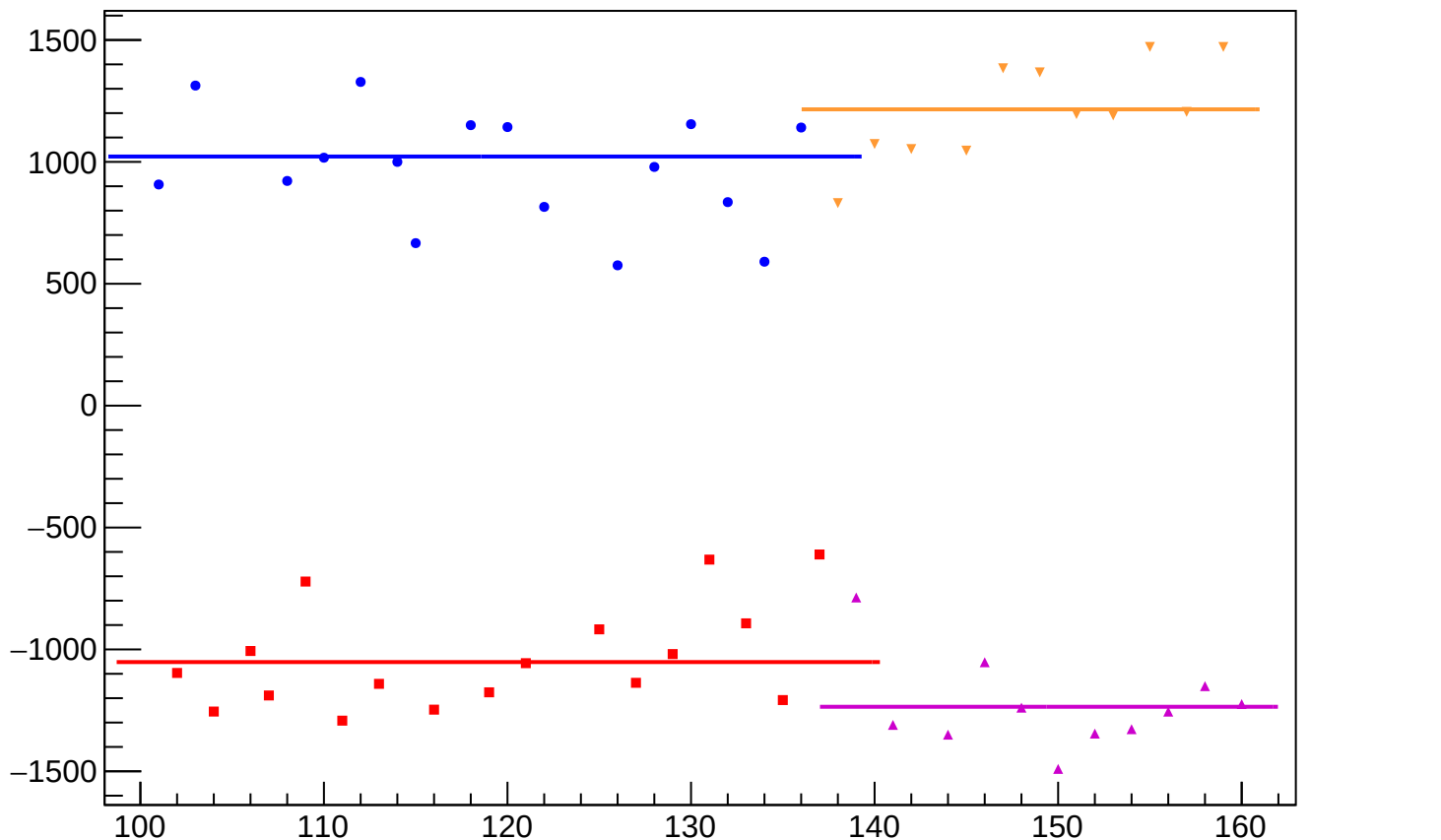
Right In: 17623.415+/-0.000  $\chi^2/\text{NDF}$ : 26214852160510248108396540611197117923328.0/15  
 Left Out: 31121.908+/-0.000  $\chi^2/\text{NDF}$ : 23059902976455903047894835429096743239680.0/10  
 Right Out: -16427.279+/-0.000  $\chi^2/\text{NDF}$ : 17497664990525804314439933995132913713152.0/16  
 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



Right In: 355.072+/-0.000  $\chi^2/\text{NDF}$ : 50262750162224494428361272812030132224.0/15  
 Left Out: 690.314+/-0.000  $\chi^2/\text{NDF}$ : 37624697763034602007656197583819243520.0/10  
 Right Out: -367.779+/-0.000  $\chi^2/\text{NDF}$ : 47461092327588428657122003339509235712.0/16  
 Left In: -733.575+/-0.000  $\chi^2/\text{NDF}$ : 39366801674031082271771997491878166528.0/10  
 All: -36.638+/-0.000  $\chi^2/\text{NDF}$ : 125559457835

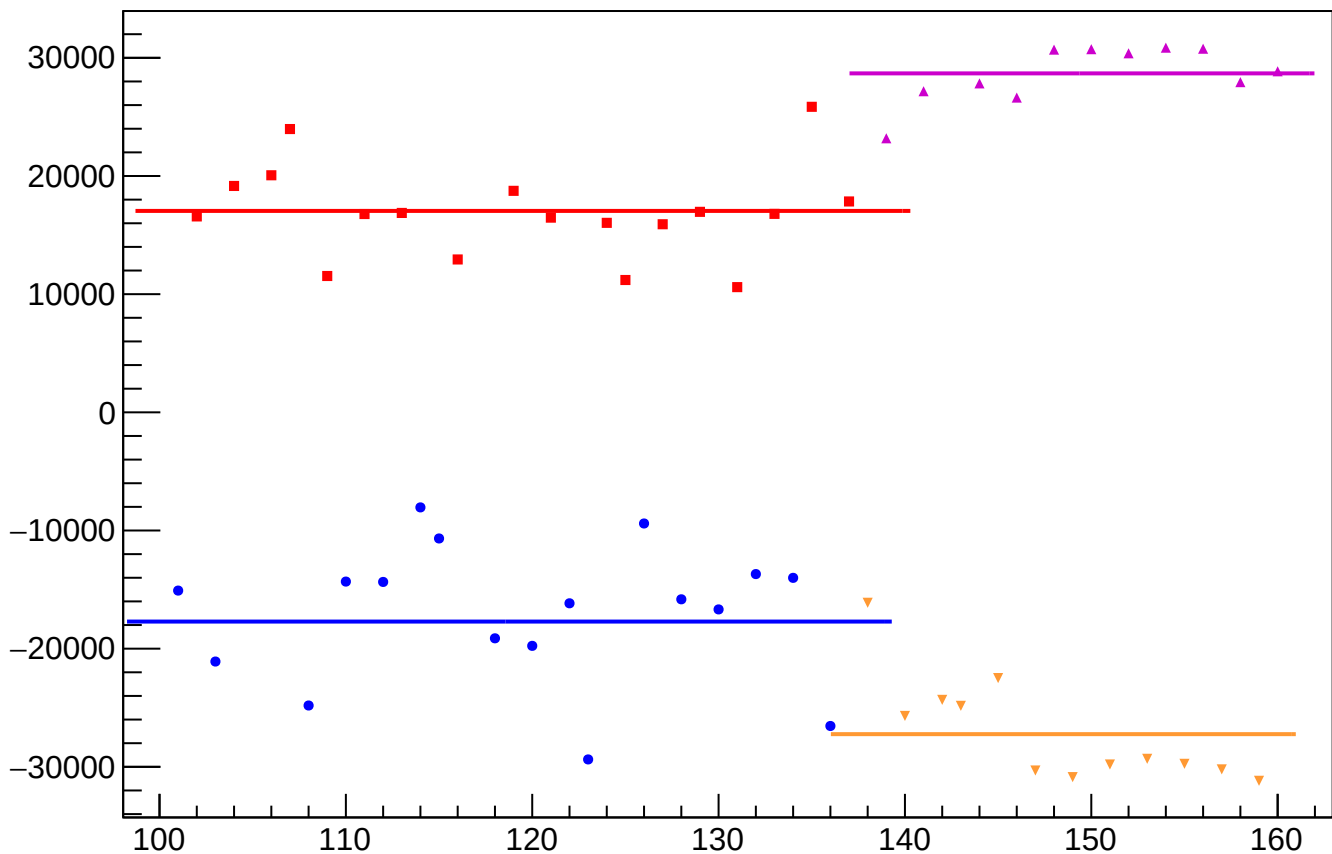
dit\_usl\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1021.988 $\pm$ 0.000  $\chi^2$ /NDF: 31240102732297466680062358937095110656.0/15  
 Left Out: 1215.518 $\pm$ 0.000  $\chi^2$ /NDF: 31376780831313540387850491409995923456.0/10  
 Right Out: -1051.912 $\pm$ 0.000  $\chi^2$ /NDF: 26857120331966502825045576618889707520.0/16  
 Left In: -1235.313 $\pm$ 0.000  $\chi^2$ /NDF: 29022677529286996275047766841758842880.0/10  
 All: -50.947 $\pm$ 0.000  $\chi^2$ /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

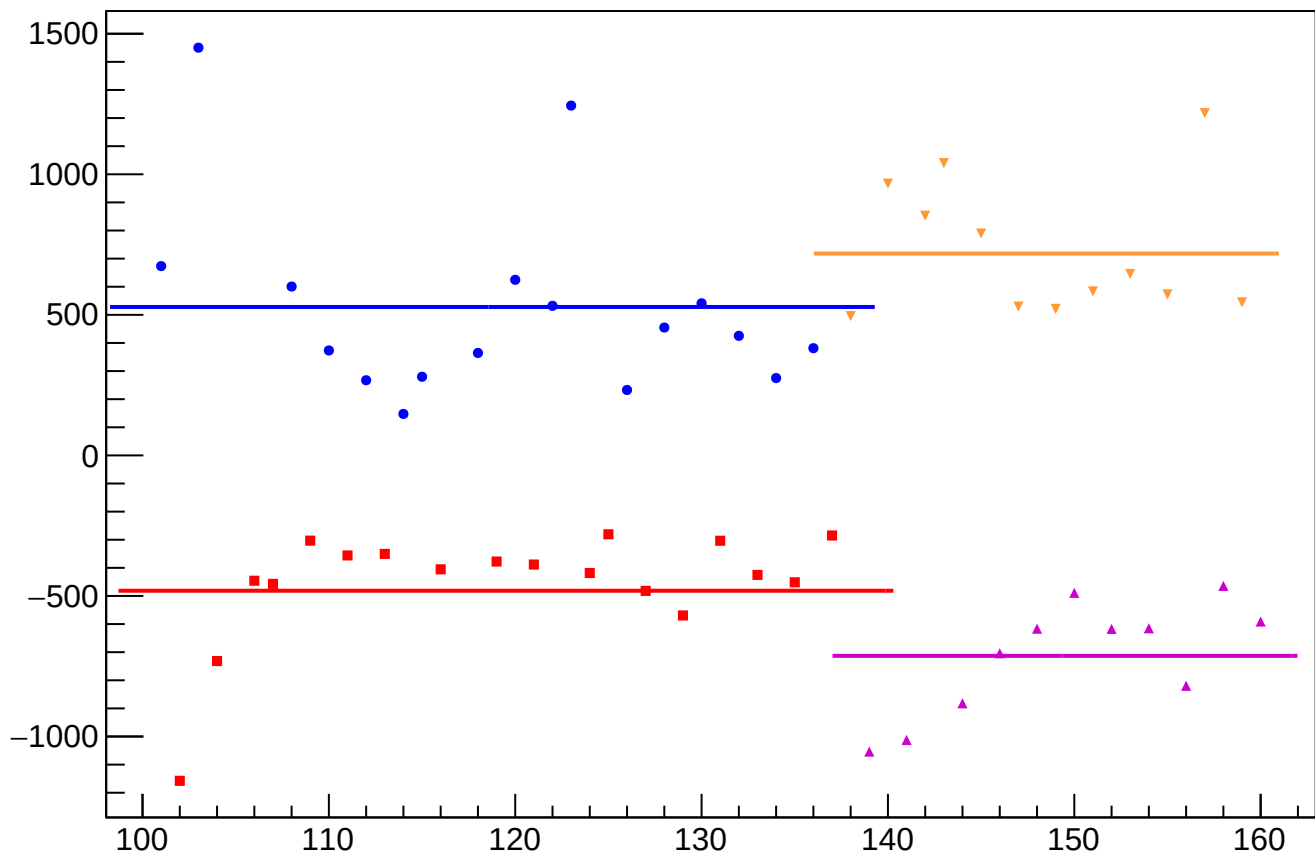
Right: -71.535+/-0.000  $\chi^2/\text{NDF}$ : 453717668983601

In: 8896.336+/-0.000  $\chi^2/\text{NDF}$ : 8787689036344538

Out: -7739.235+/-0.000  $\chi^2/\text{NDF}$ : 81313997076269

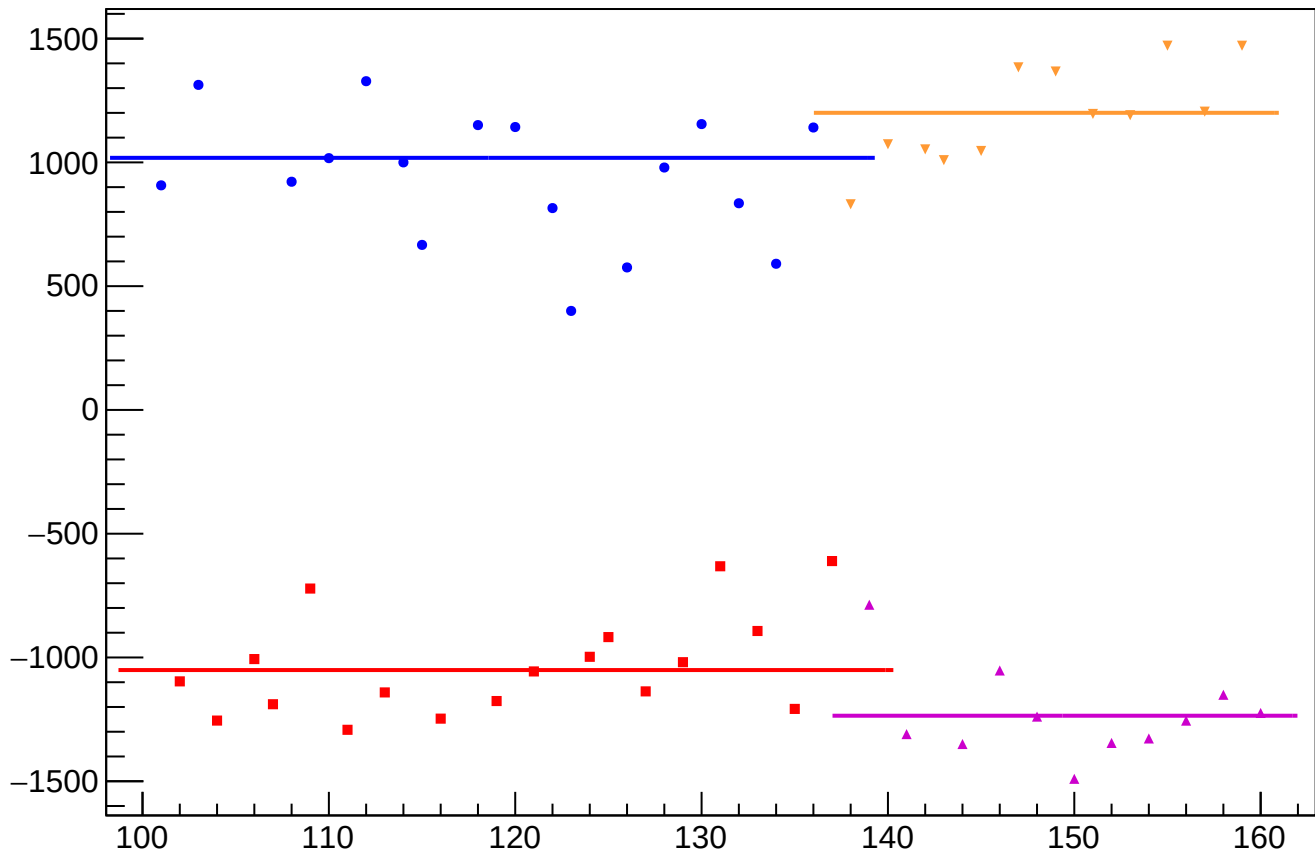
All: 586.226+/-0.000  $\chi^2/\text{NDF}$ : 191683093358

dit\_usr\_coil1\_err\_mean vs Slug, Sign Corrected



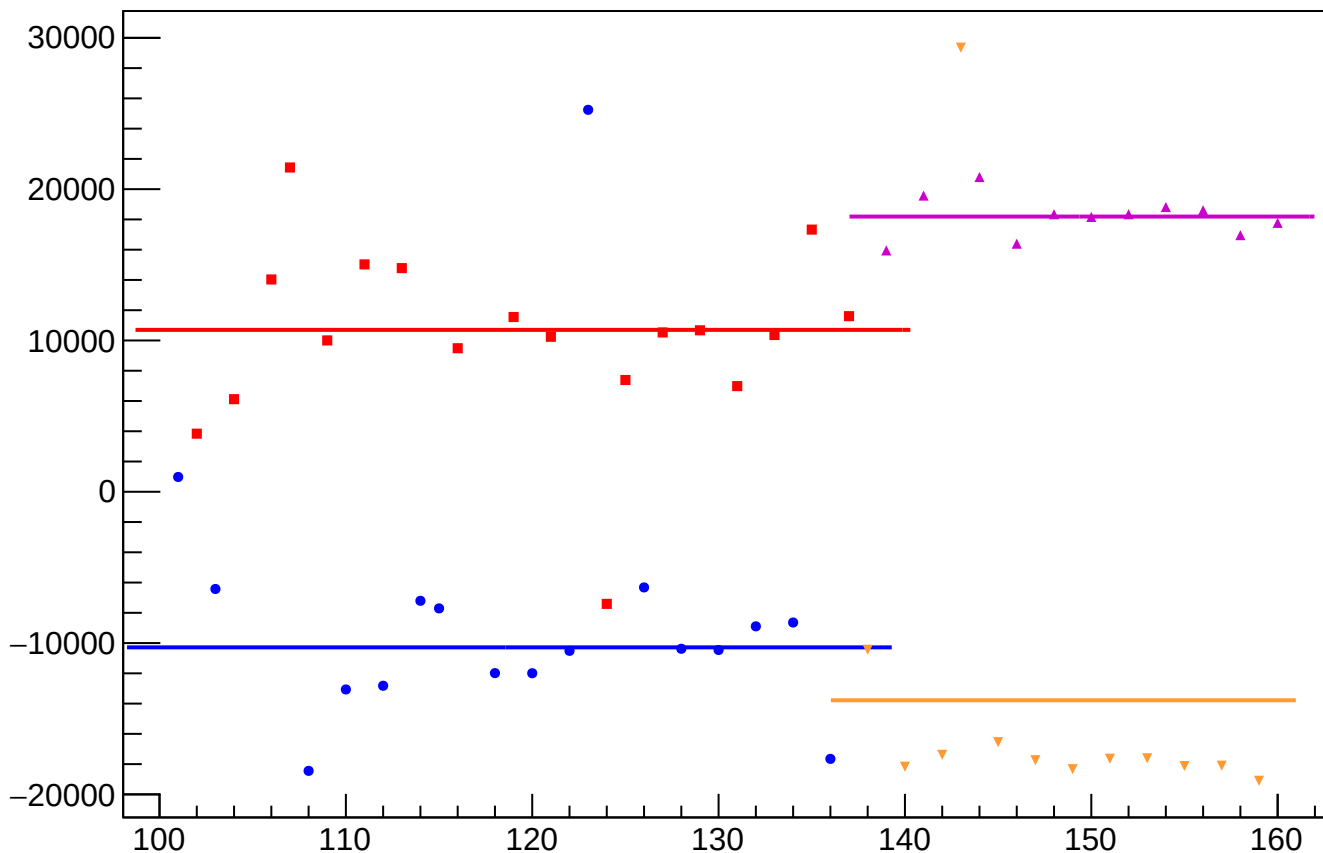
Left:  $-6.763 \pm 0.000$   $\chi^2/\text{NDF}: 10241293402202256$   
 Right In:  $528.041 \pm 0.000$   $\chi^2/\text{NDF}: 69659723827653646879006199384029265920.0/16$   
 Left Out:  $718.075 \pm 0.000$   $\chi^2/\text{NDF}: 47539185486125031464503975982300921856.0/11$   
 Right Out:  $-481.423 \pm 0.000$   $\chi^2/\text{NDF}: 37781807344960782949995964438094544896.0/17$   
 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: -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\_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

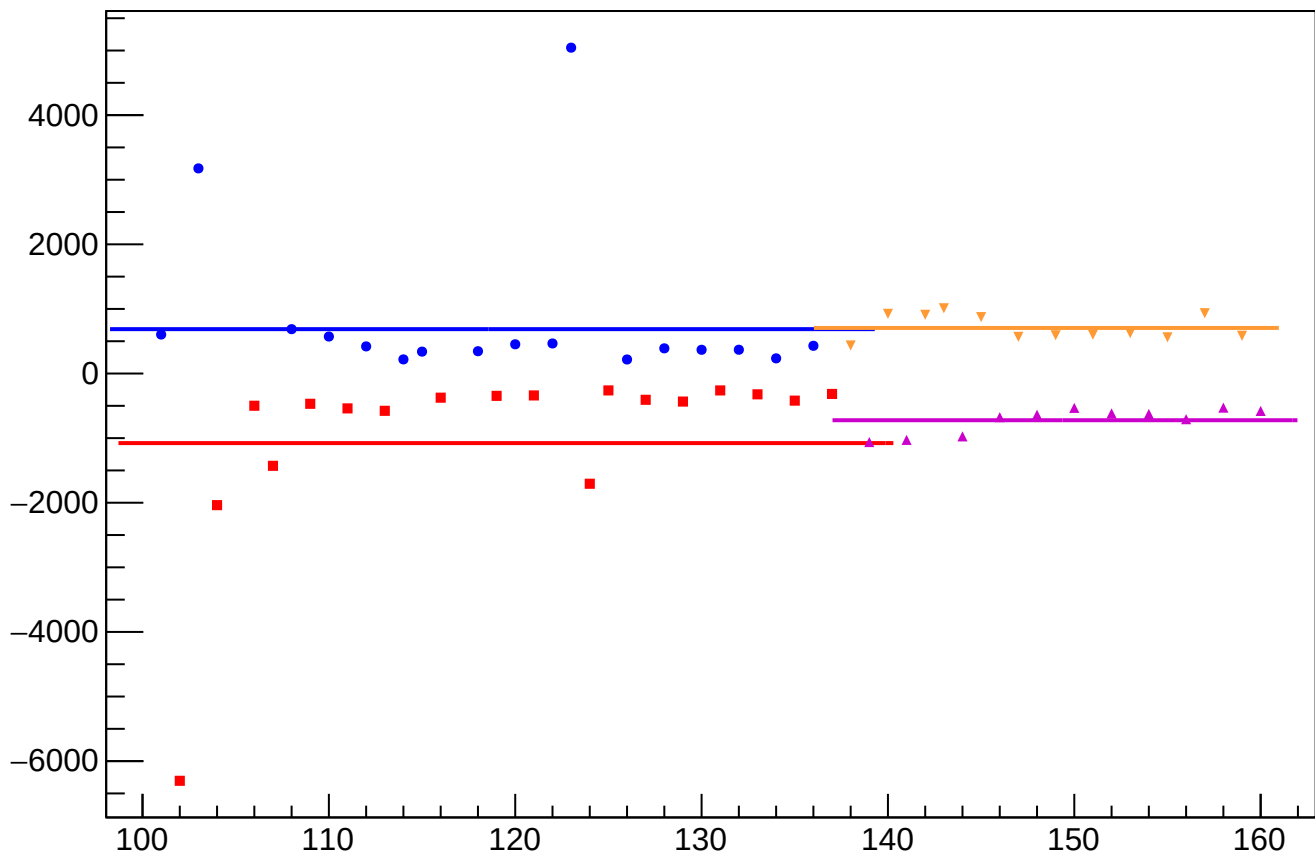
$\chi^2/\text{NDF}$ : 17608009820774086602629870631925827239936.0/17

Left In: 18189.629+/-0.000

$\chi^2/\text{NDF}$ : 1634139917822330923820252034017137786880.0/10

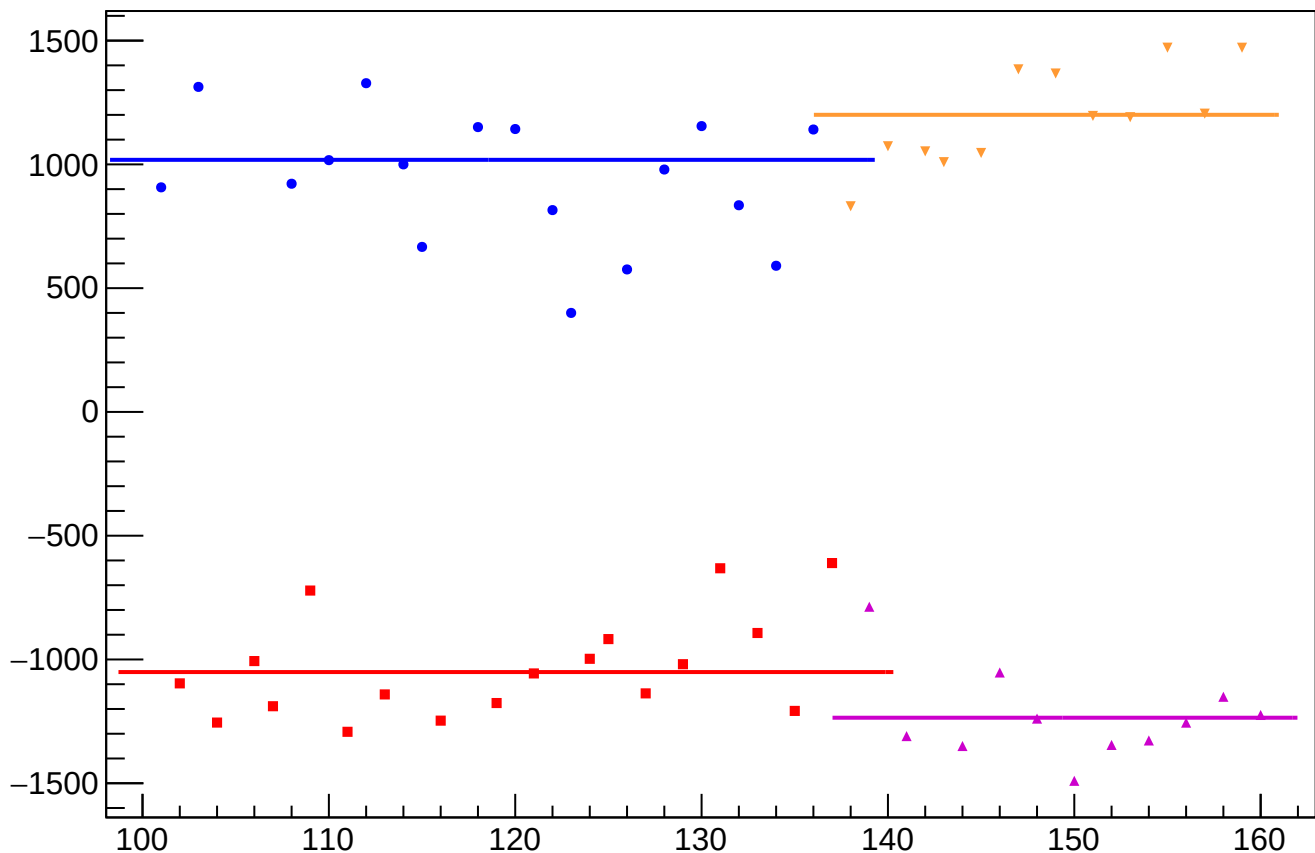
All: 1525.181+/-0.000  $\chi^2/\text{NDF}$ : 80963160115

dit\_atl1\_coil1\_err\_mean vs Slug, Sign Corrected



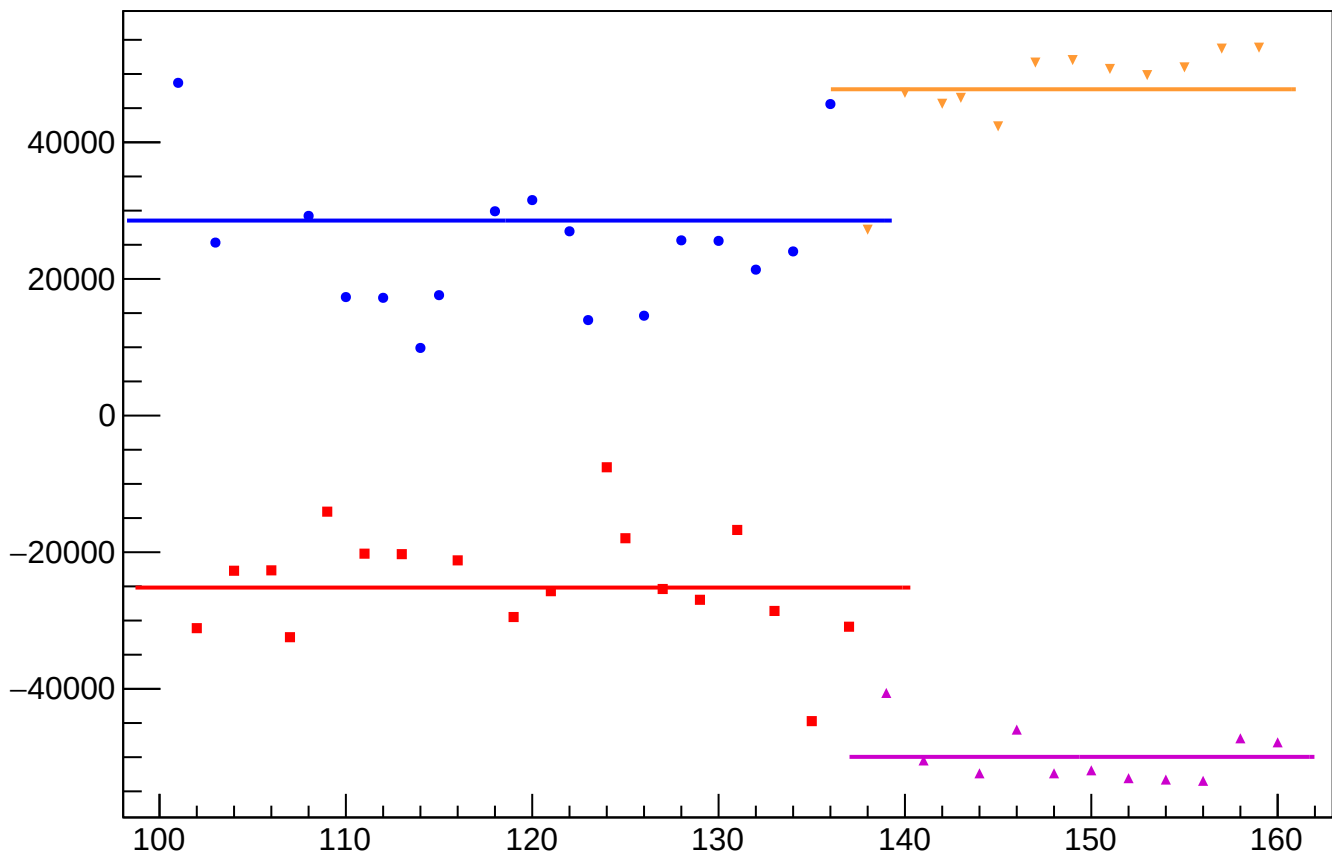
Right In:  $686.989 \pm 0.000$   $\chi^2/\text{NDF}: 493304193623954738914781428530632720384.0/16$   
 Left Out:  $705.686 \pm 0.000$   $\chi^2/\text{NDF}: 30616664019236375652772902235296235520.0/11$   
 Right Out:  $-1076.905 \pm 0.000$   $\chi^2/\text{NDF}: 1898129082549914246384223466564869947392.0/17$   
 Left In:  $-722.981 \pm 0.000$   $\chi^2/\text{NDF}: 33412765649158577967580020065397899264.0/10$   
 All:  $-100.366 \pm 0.000$   $\chi^2/\text{NDF}: 45198086935$

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

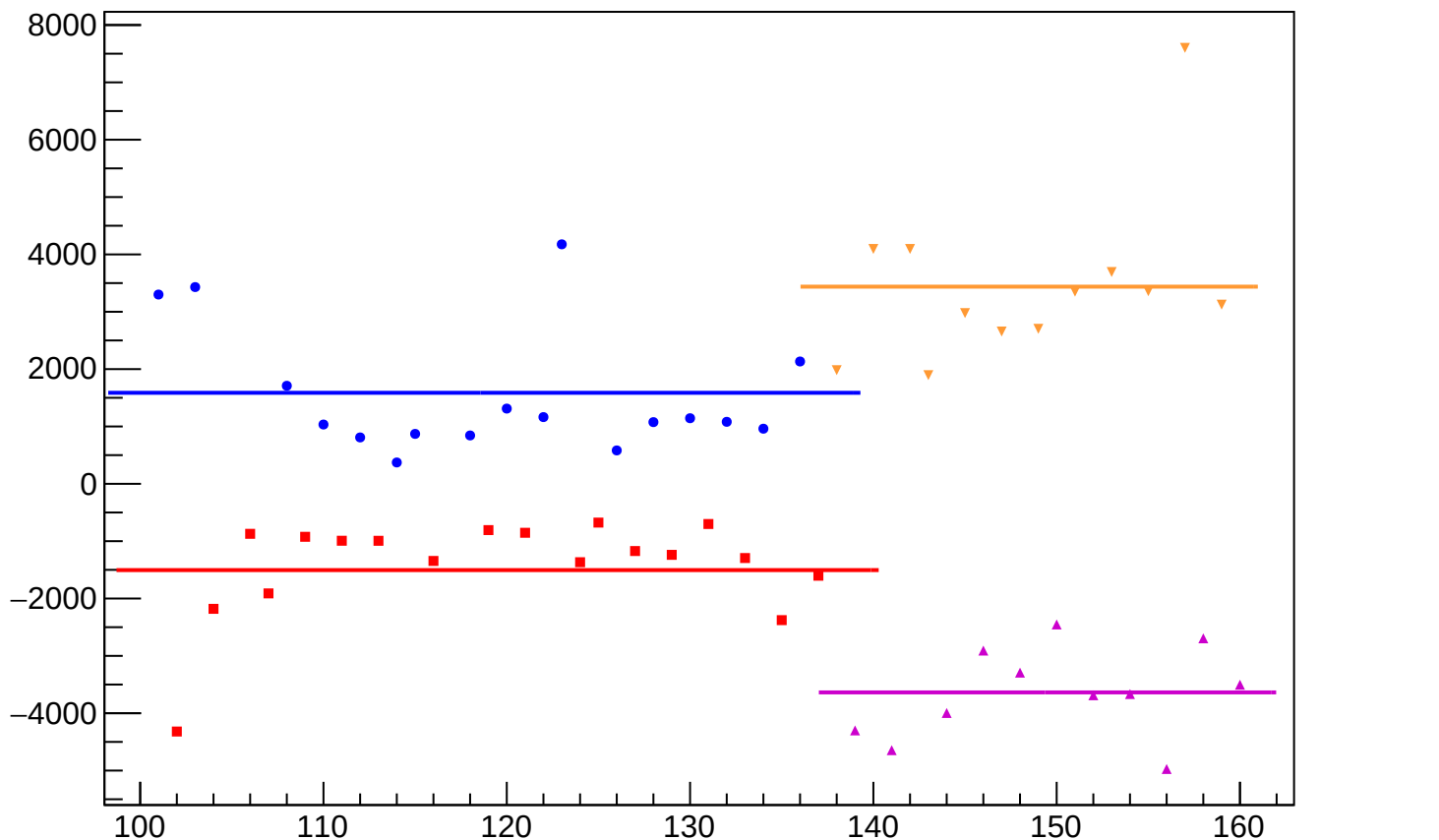
$\chi^2/\text{NDF}$ : 42747079455180569490134671830323044548608.0/17

Left In: -49953.612+/-0.000

$\chi^2/\text{NDF}$ : 13577033864383990821014727544731703705600.0/10

All: -424.000+/-0.000  $\chi^2/\text{NDF}$ : 56012725054

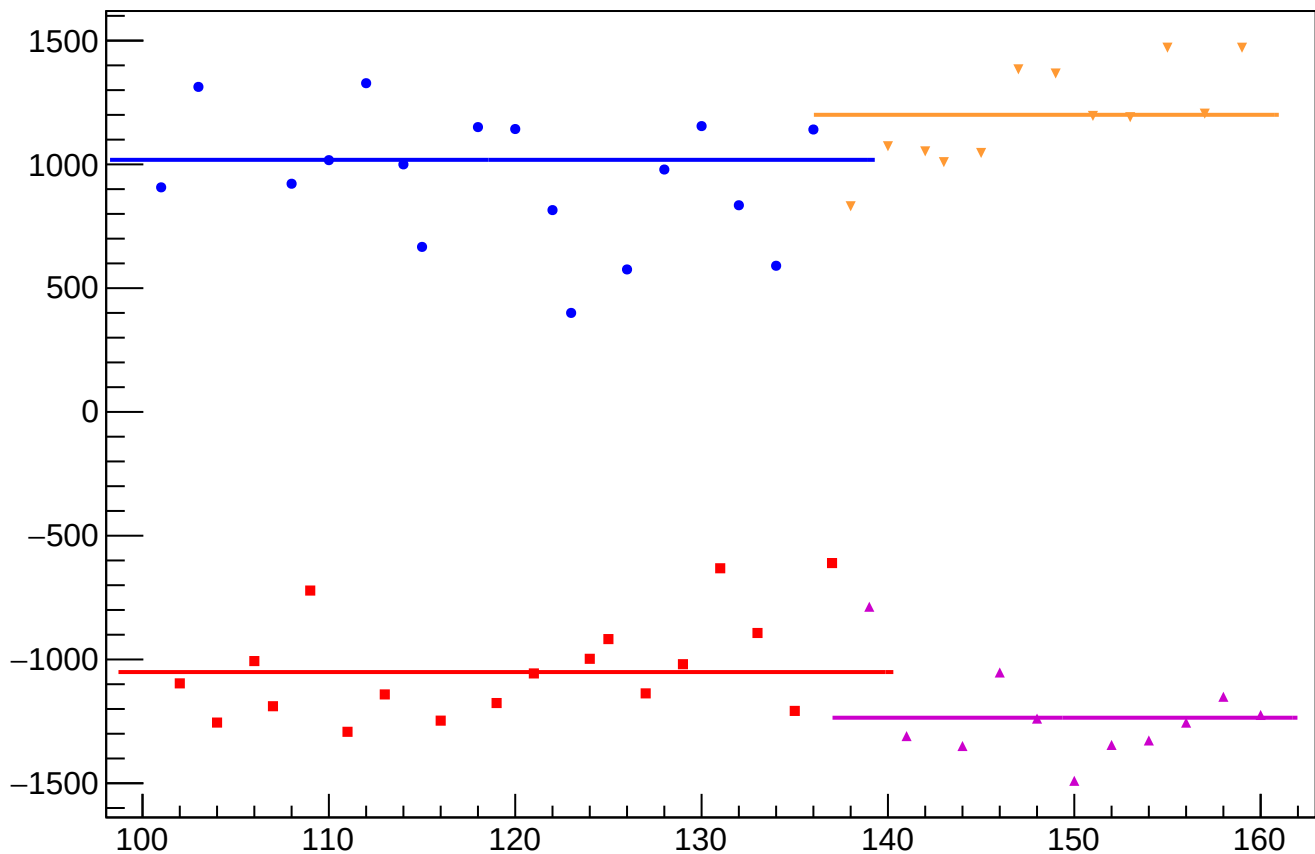
dit\_atl2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 1587.187 $\pm$ 0.000  $\chi^2$ /NDF: 615324434940076903003531567179686215680.0/16  
 Left Out: 3437.732 $\pm$ 0.000  $\chi^2$ /NDF: 1787367668595754289869839739980022284288.0/11  
 Right Out: -1504.230 $\pm$ 0.000  $\chi^2$ /NDF: 678771439829187339393474850676239499264.0/17  
 Left In: -3636.942 $\pm$ 0.000  $\chi^2$ /NDF: 531629510499304026743248594251812962304.0/10  
 All: -74.557 $\pm$ 0.000  $\chi^2$ /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

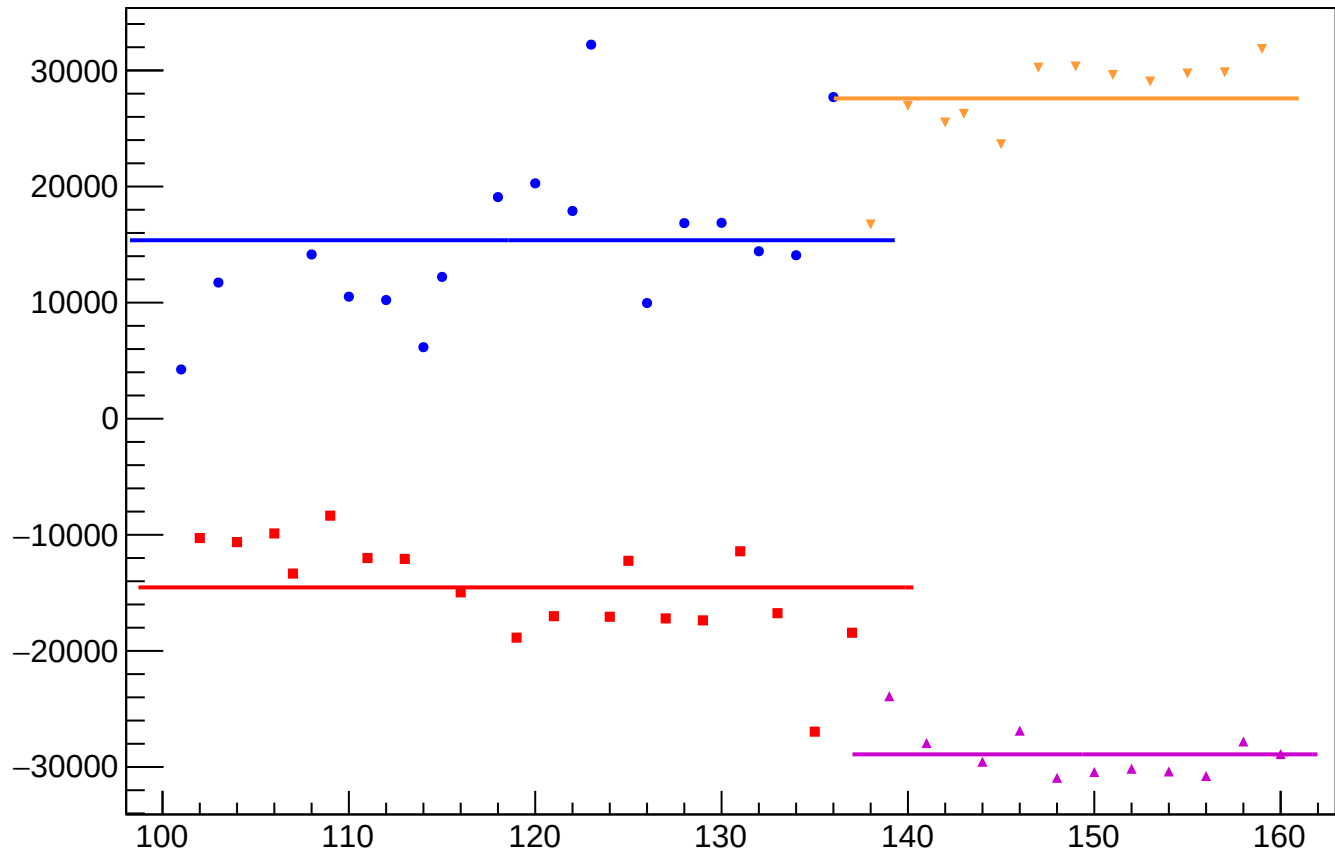
$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -1235.313+/-0.000

$\chi^2/\text{NDF}$ : 29022677529286996275047766841758842880.0/10

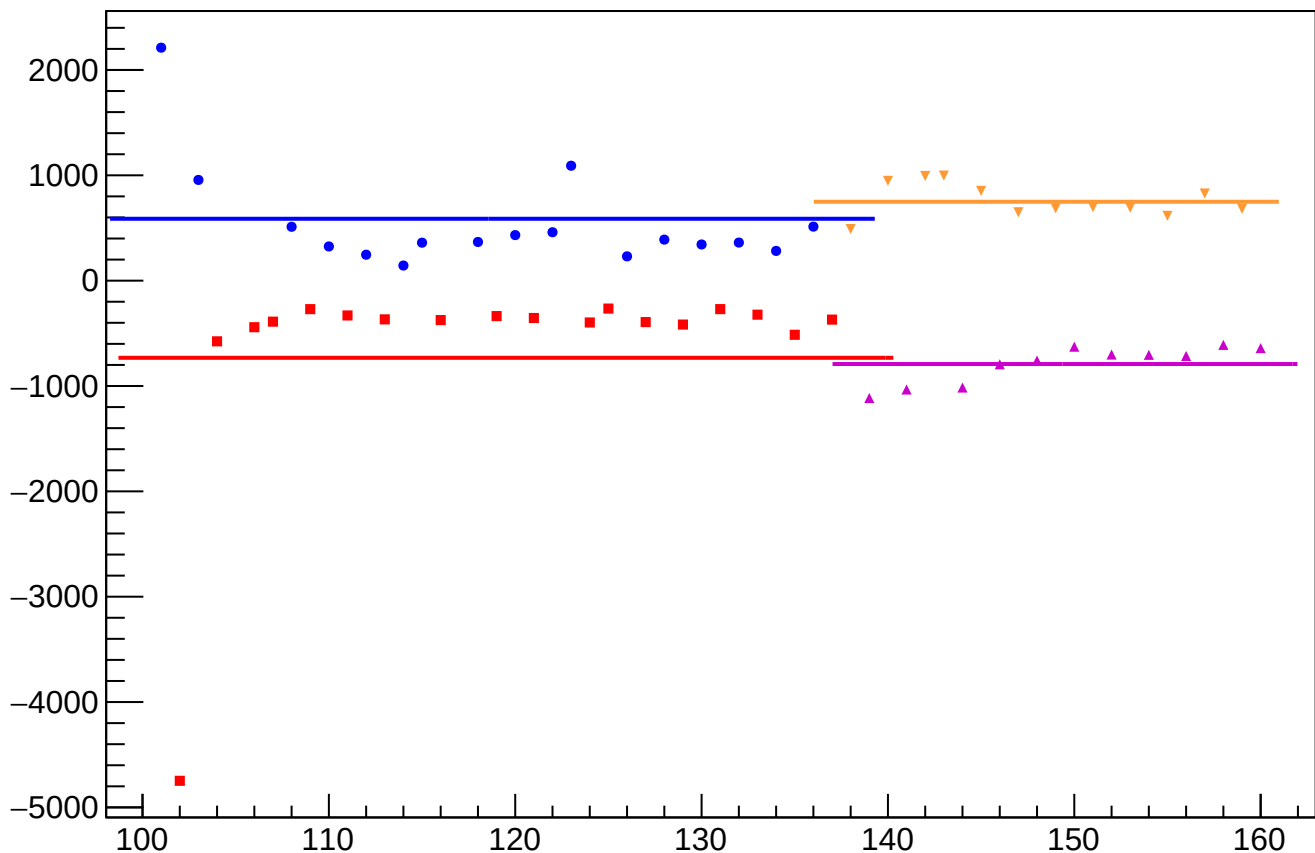
Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514  
 Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946  
 In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121  
 Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_atr1\_coil1\_mean vs Slug, Sign Corrected



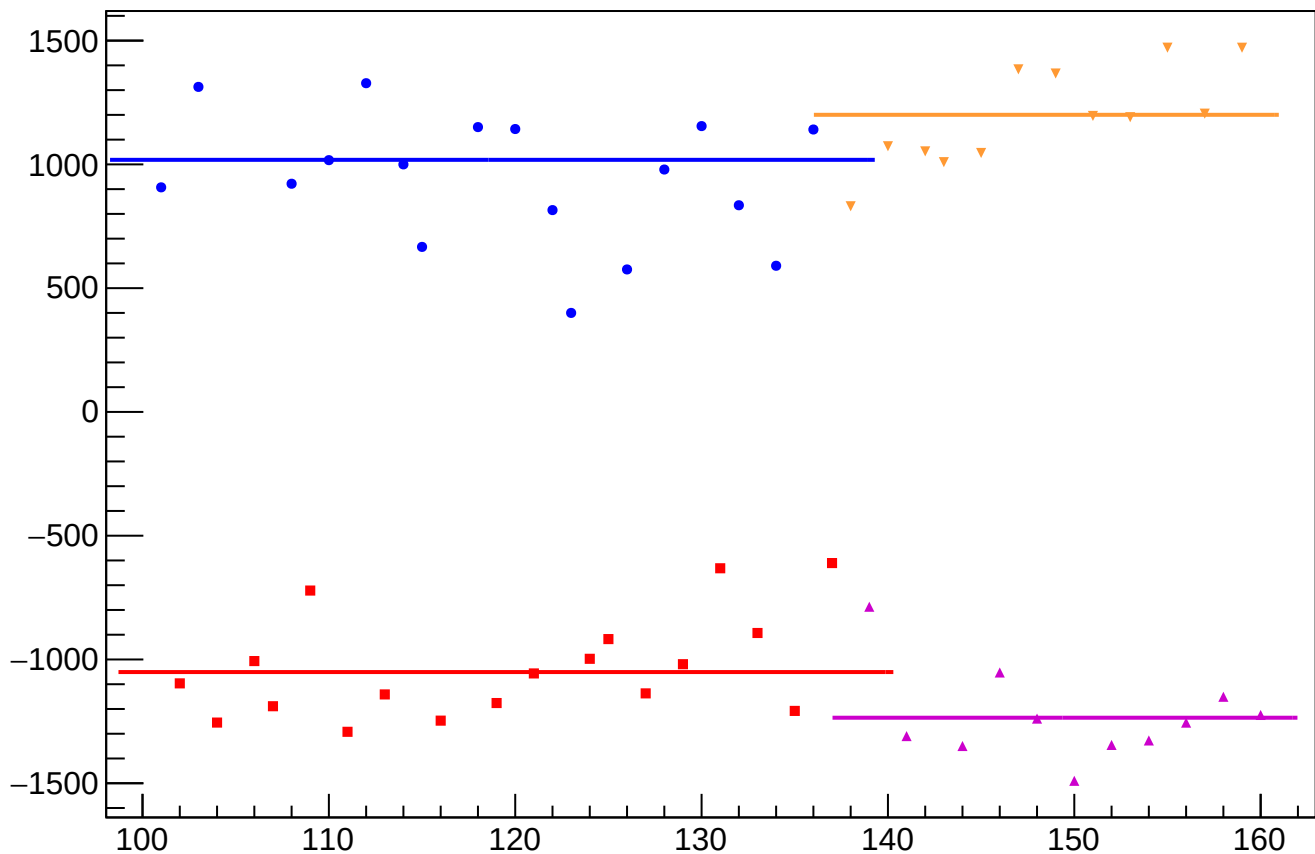
Right In: 15371.957+/-0.000  $\chi^2/\text{NDF}$ : 29284474571084462407736251938608521412608.0/16  
 Left Out: 27590.549+/-0.000  $\chi^2/\text{NDF}$ : 14629897493361033715378591637422508867584.0/11  
 Right Out: -14530.553+/-0.000  $\chi^2/\text{NDF}$ : 15462988113686651104588076983529515253760.0/17  
 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



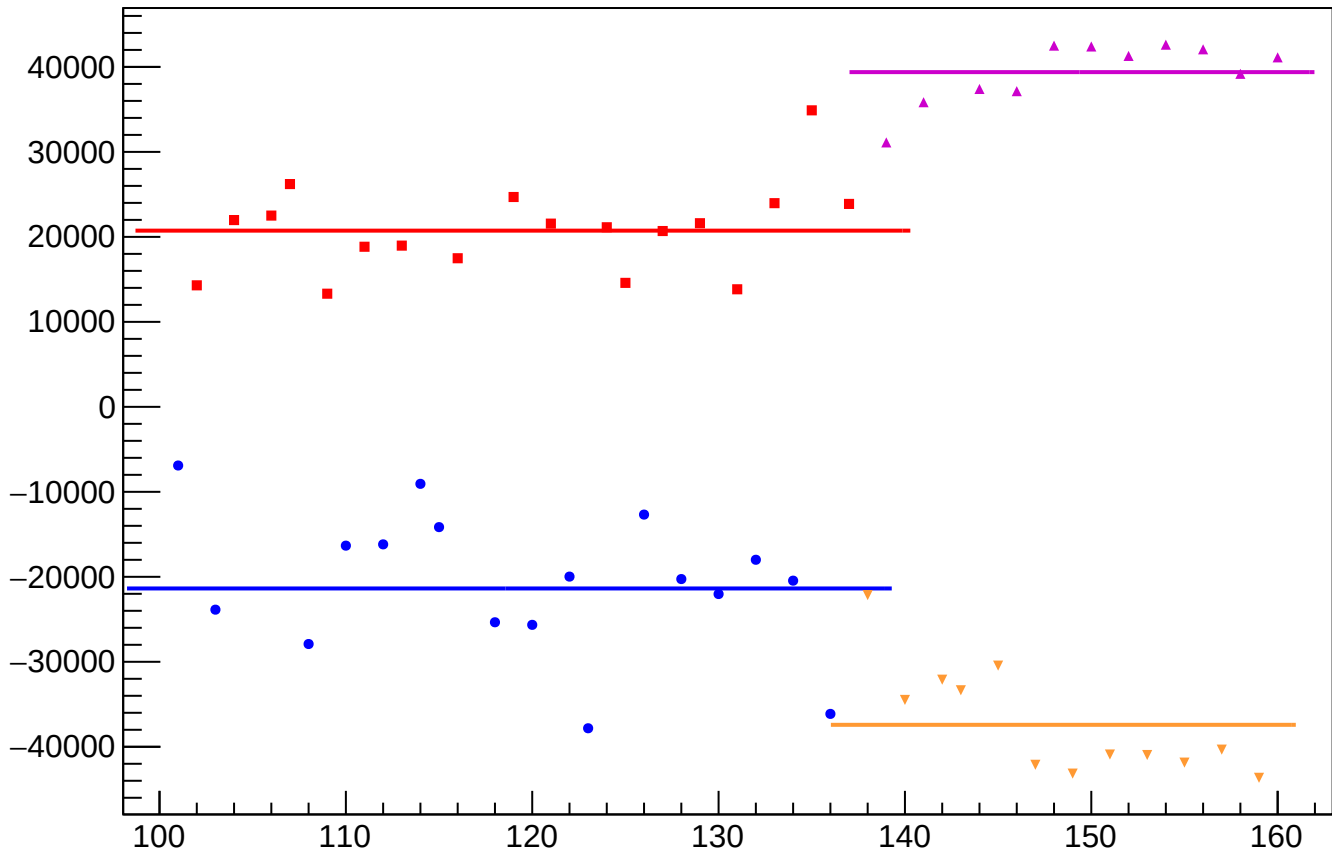
Right In: 587.577+/-0.000  $\chi^2/\text{NDF}$ : 195107984512310448986091727250308202496.0/16  
 Left Out: 749.082+/-0.000  $\chi^2/\text{NDF}$ : 19986493434775093751754489968960995328.0/11  
 Right Out: -732.166+/-0.000  $\chi^2/\text{NDF}$ : 1022613131551712750449458449642369843200.0/17  
 Left In: -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  
 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

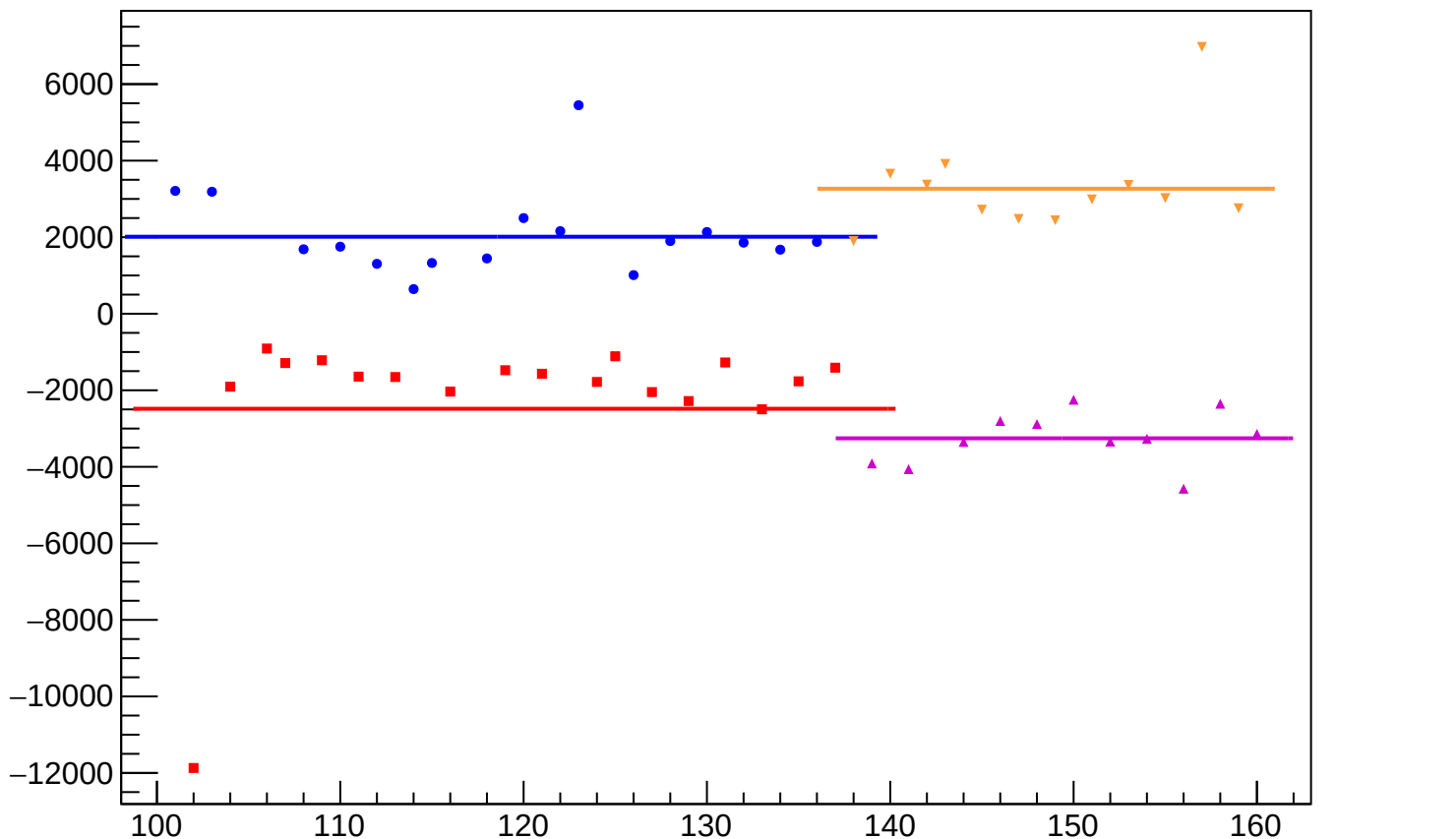
Right: -3.896+/-0.000  $\chi^2/\text{NDF}$ : 6900950472840911

In: 13470.807+/-0.000  $\chi^2/\text{NDF}$ : 152466323892427

Out: -11813.491+/-0.000  $\chi^2/\text{NDF}$ : 1411448108237

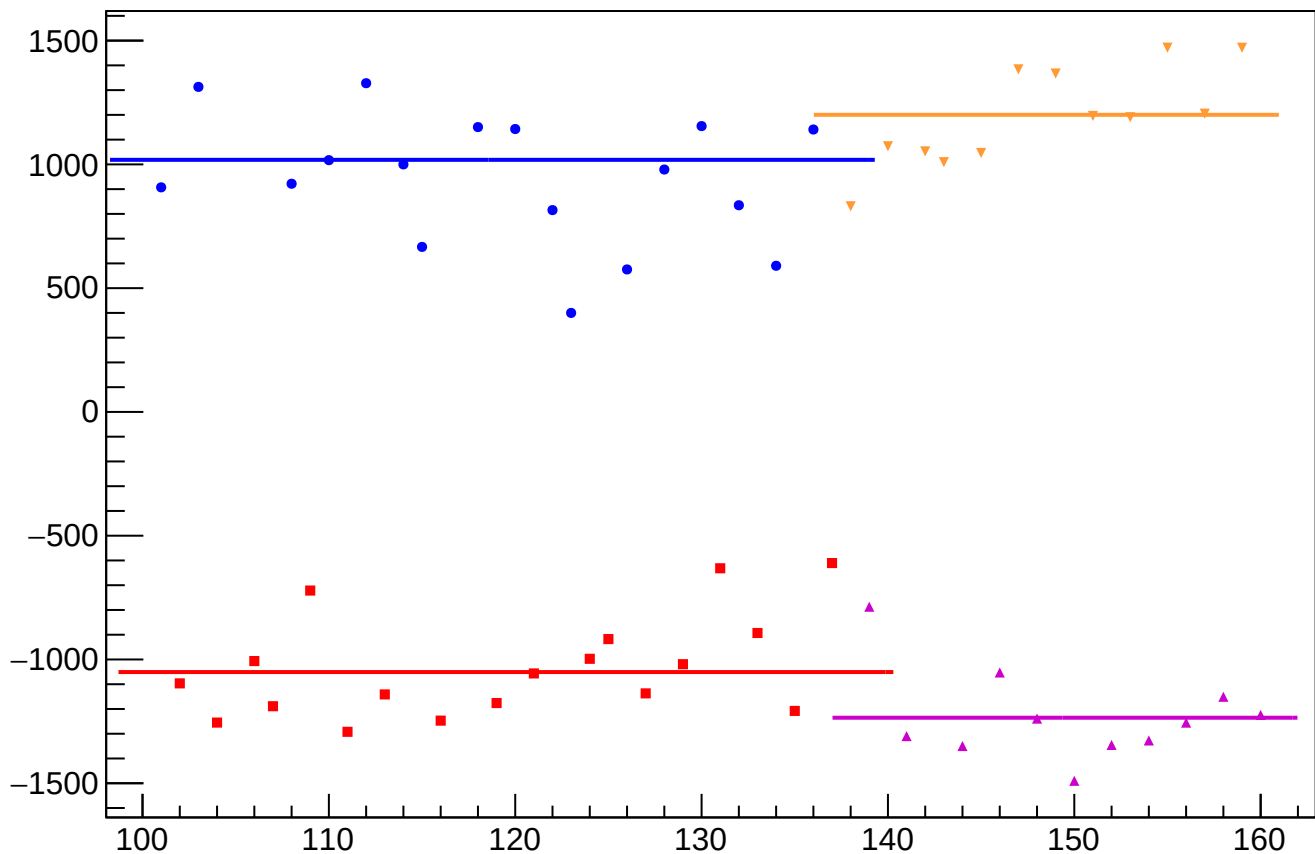
All: 840.324+/-0.000  $\chi^2/\text{NDF}$ : 345569852964

dit\_atr2\_coil1\_err\_mean vs Slug, Sign Corrected



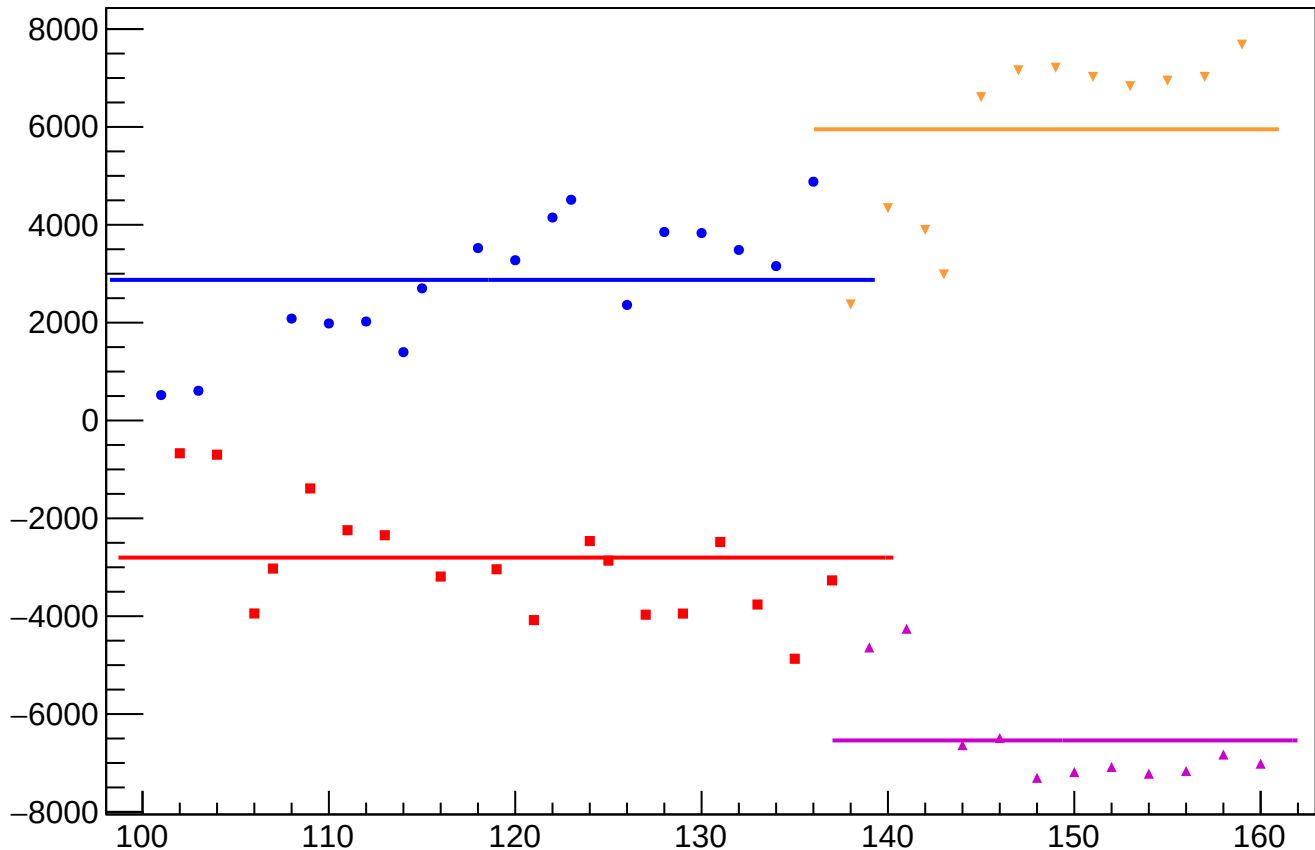
Right In: 2011.970+/-0.000  $\chi^2/\text{NDF}$ : 346652592308673178727003456260959895552.0/16  
 Left Out: 3267.187+/-0.000  $\chi^2/\text{NDF}$ : 1365364759229998432134037030614341779456.0/11  
 Right Out: -2482.921+/-0.000  $\chi^2/\text{NDF}$ : 5673812113008855047349052904680066121728.0/17  
 Left 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  
 All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

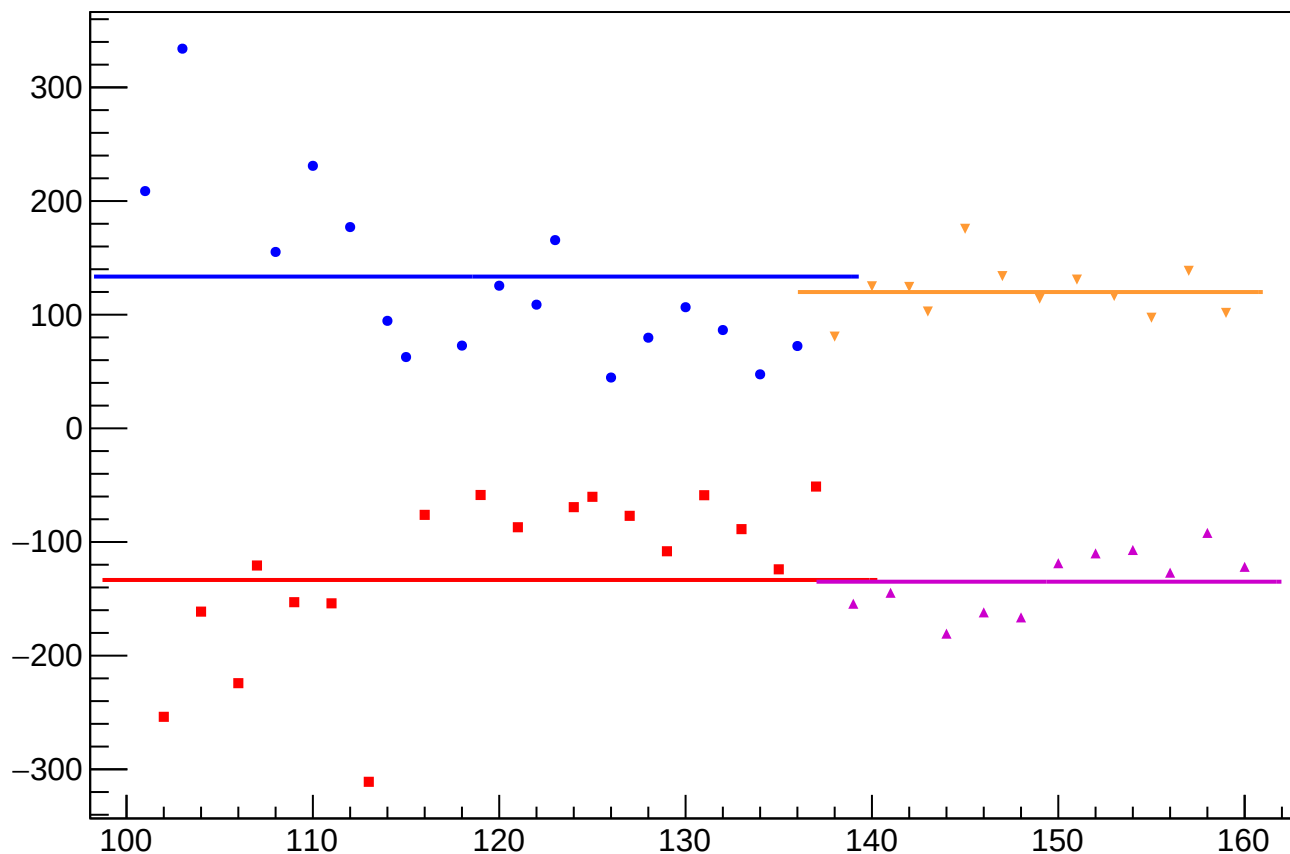
dit\_sam1\_coil1\_mean vs Slug, Sign Corrected



Right In: 2874.142+/-0.000  $\chi^2/\text{NDF}$ : 1331222919424099285024540359740568371200.0/16  
 Left Out: 5952.071+/-0.000  $\chi^2/\text{NDF}$ : 2833818943109615822191848442455285301248.0/11  
 Right Out: -2802.151+/-0.000  $\chi^2/\text{NDF}$ : 1095477572477657195402092119674444578816.0/17  
 Left In: -6539.067+/-0.000  $\chi^2/\text{NDF}$ : 947421211454184627704546632992611631104.0/10  
 All: -215.134+/-0.000  $\chi^2/\text{NDF}$ : 89502411249

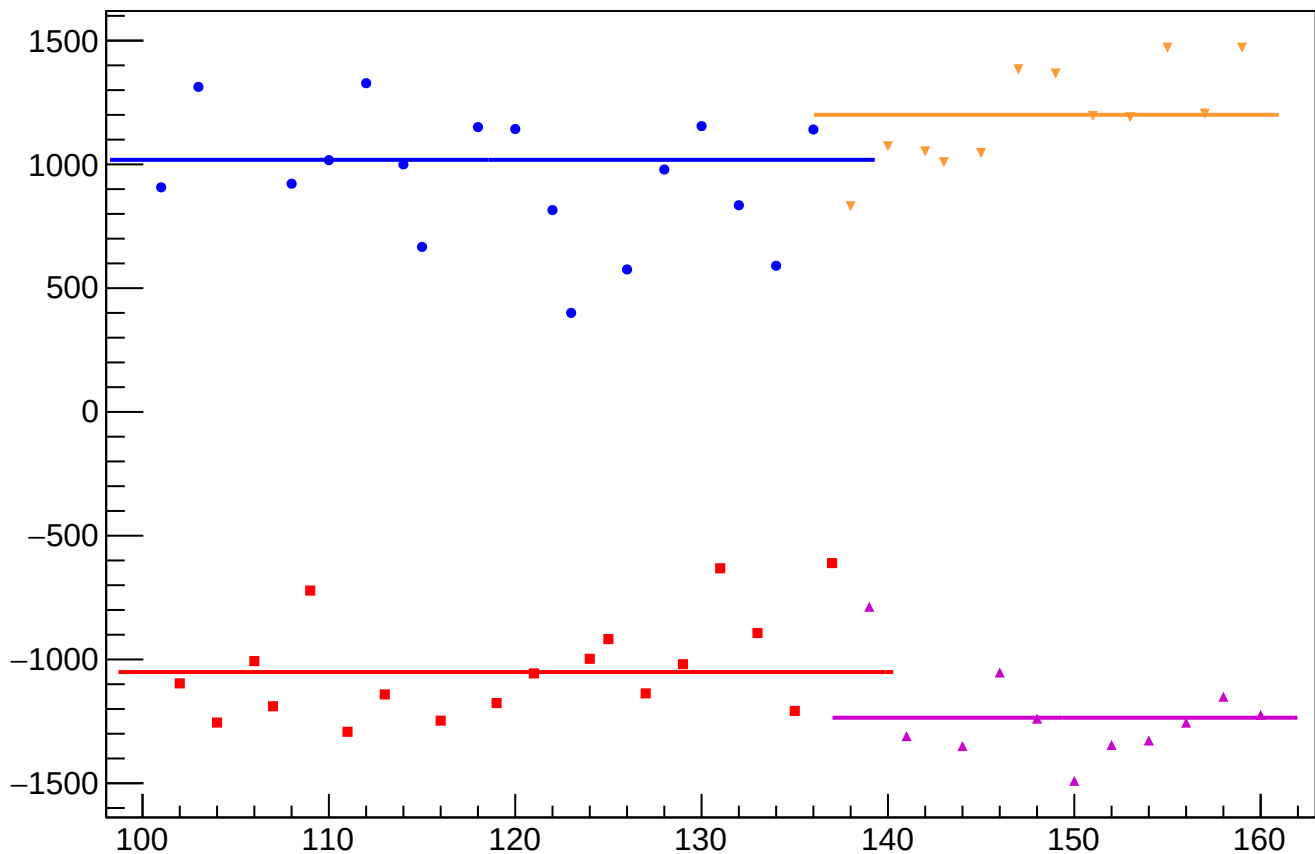


dit\_sam1\_coil1\_err\_mean vs Slug, Sign Corrected



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

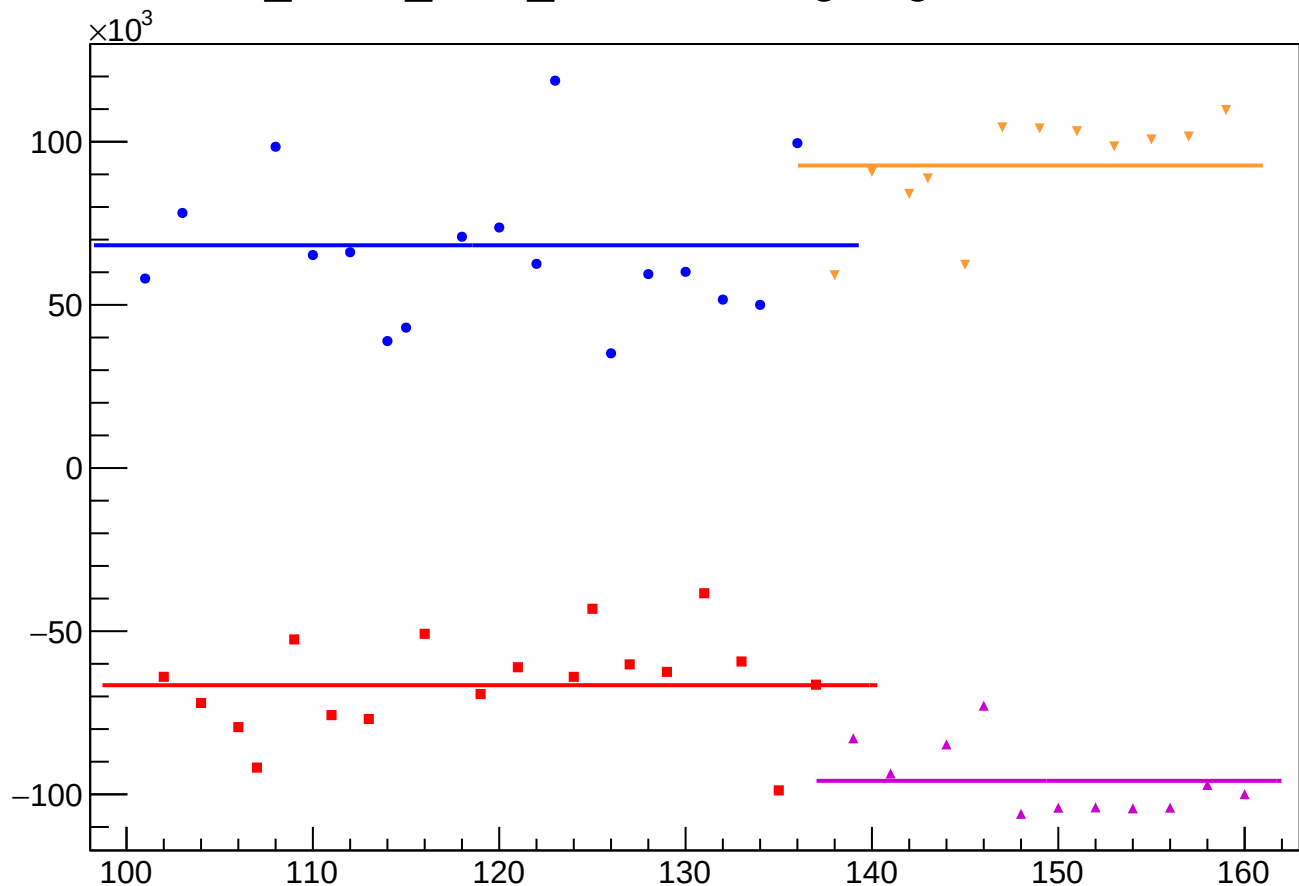
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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

Left: -2797.941+/-0.000  $\chi^2/\text{NDF}$ : 16707940681272

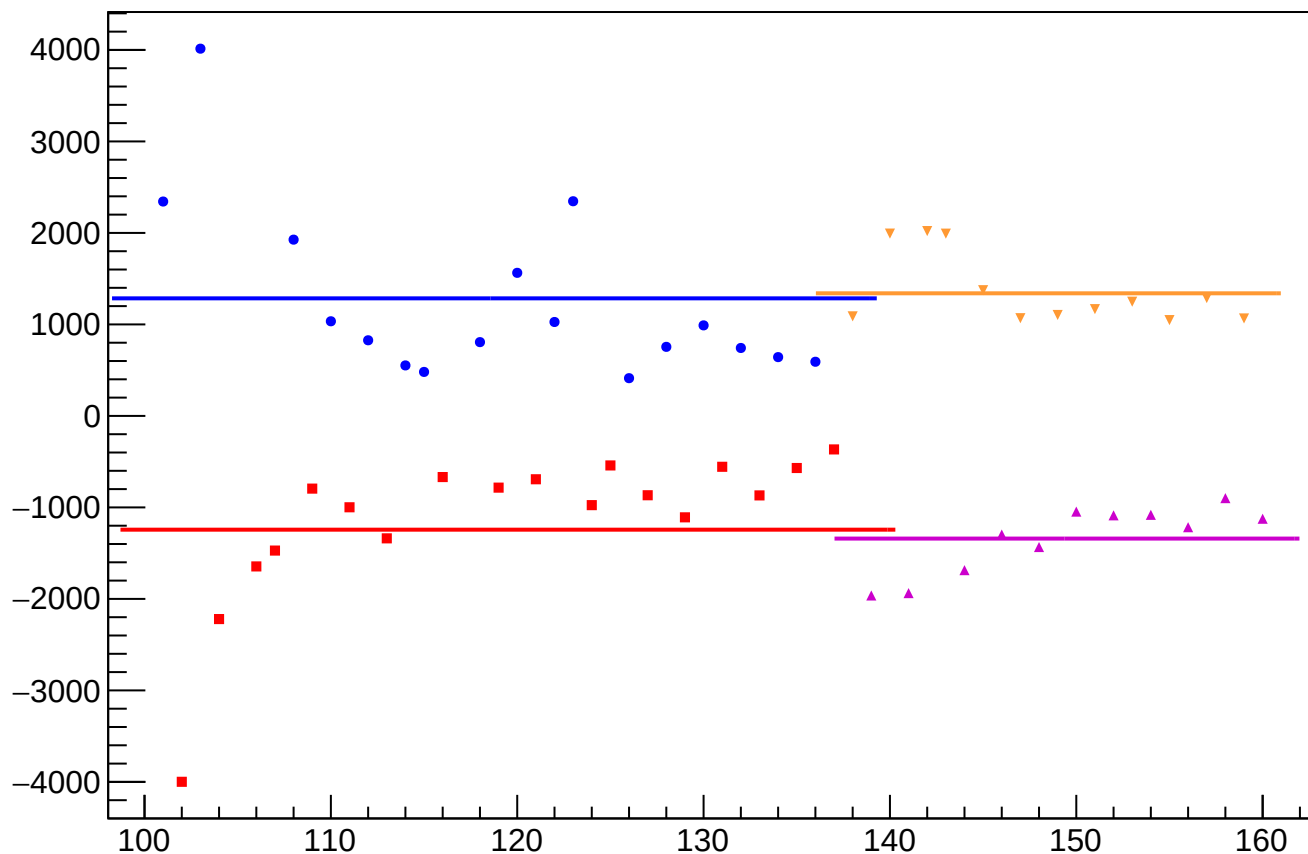
Right: -145.312+/-0.000  $\chi^2/\text{NDF}$ : 67967527908987

In: -25847.702+/-0.000  $\chi^2/\text{NDF}$ : 11058608727071

Out: 22595.850+/-0.000  $\chi^2/\text{NDF}$ : 10544360205030

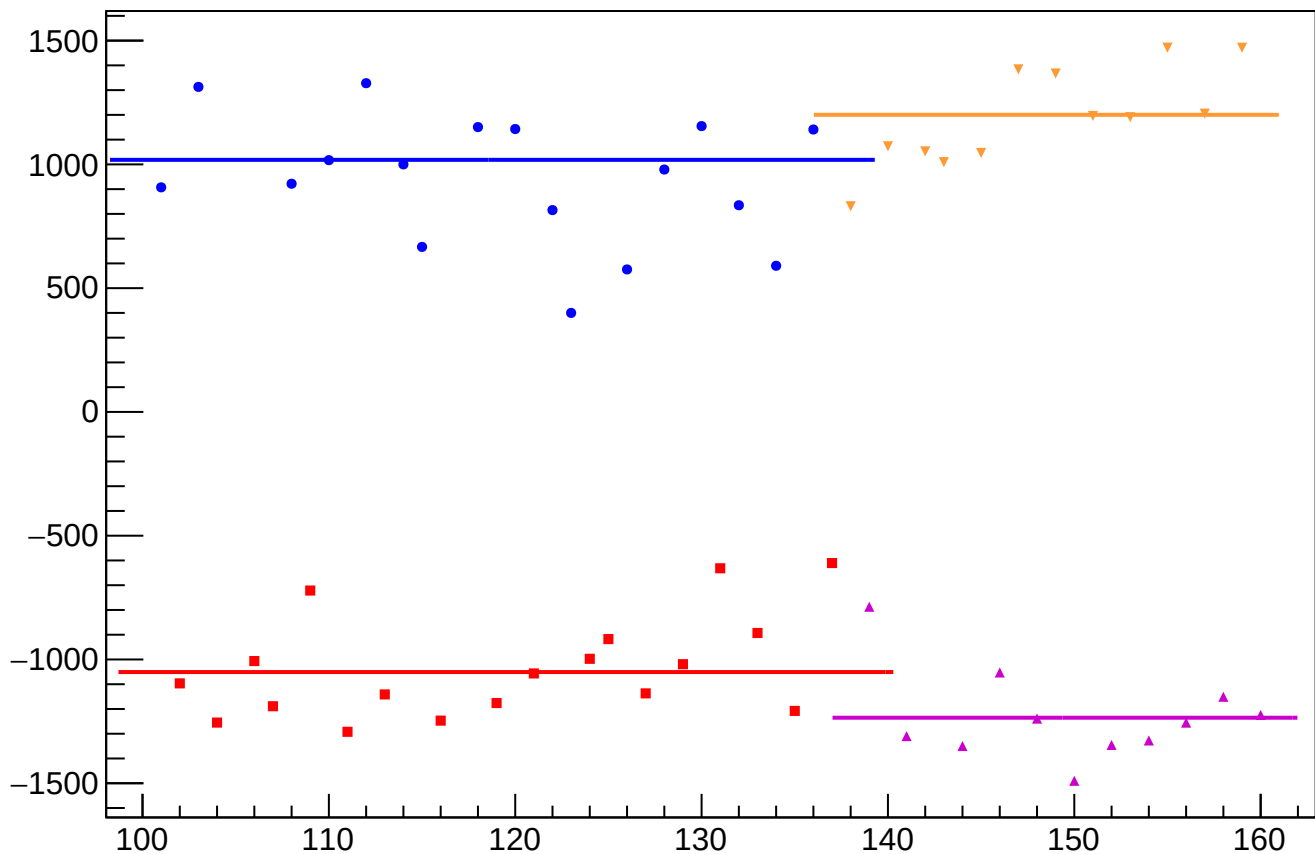
All: -1648.278+/-0.000  $\chi^2/\text{NDF}$ : 2351031089

# 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

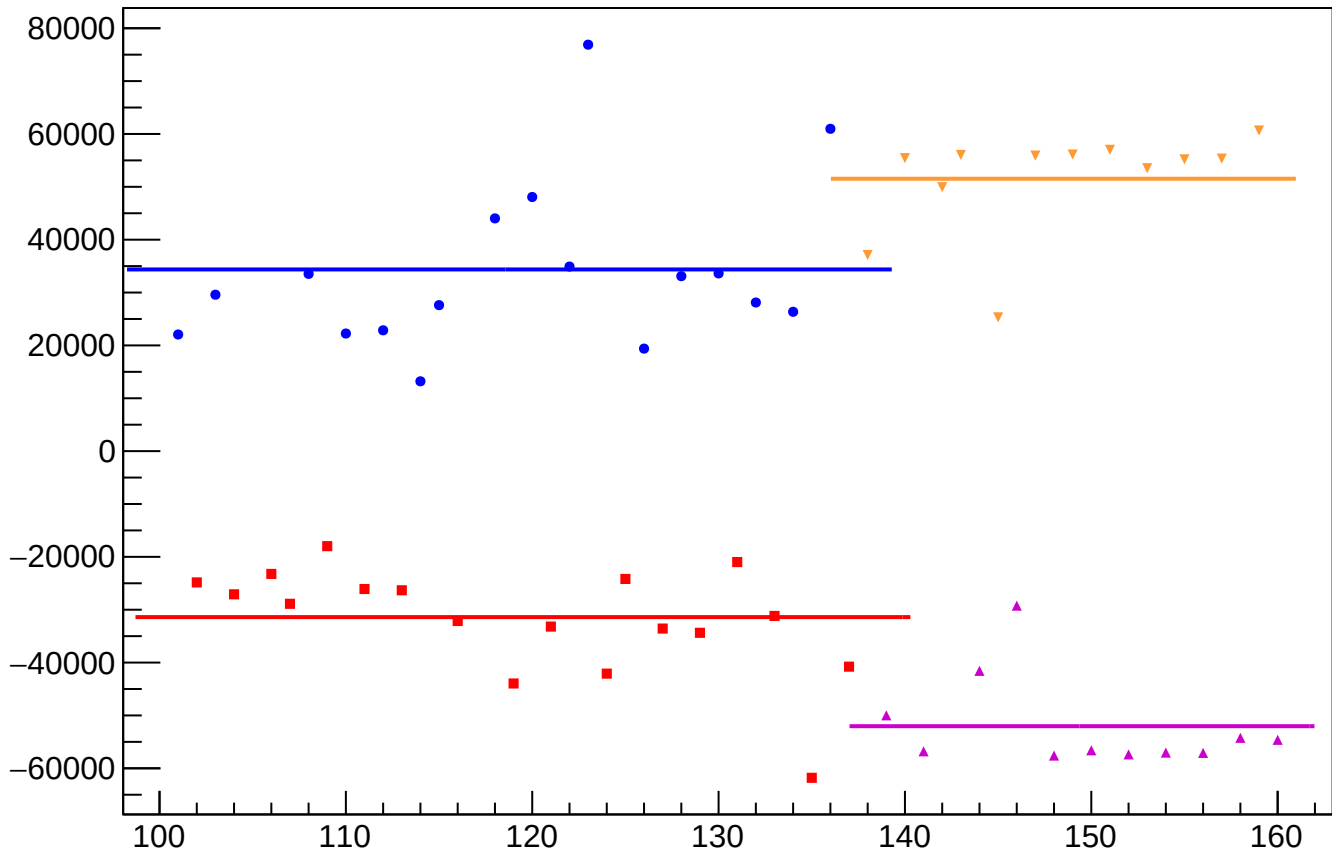
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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

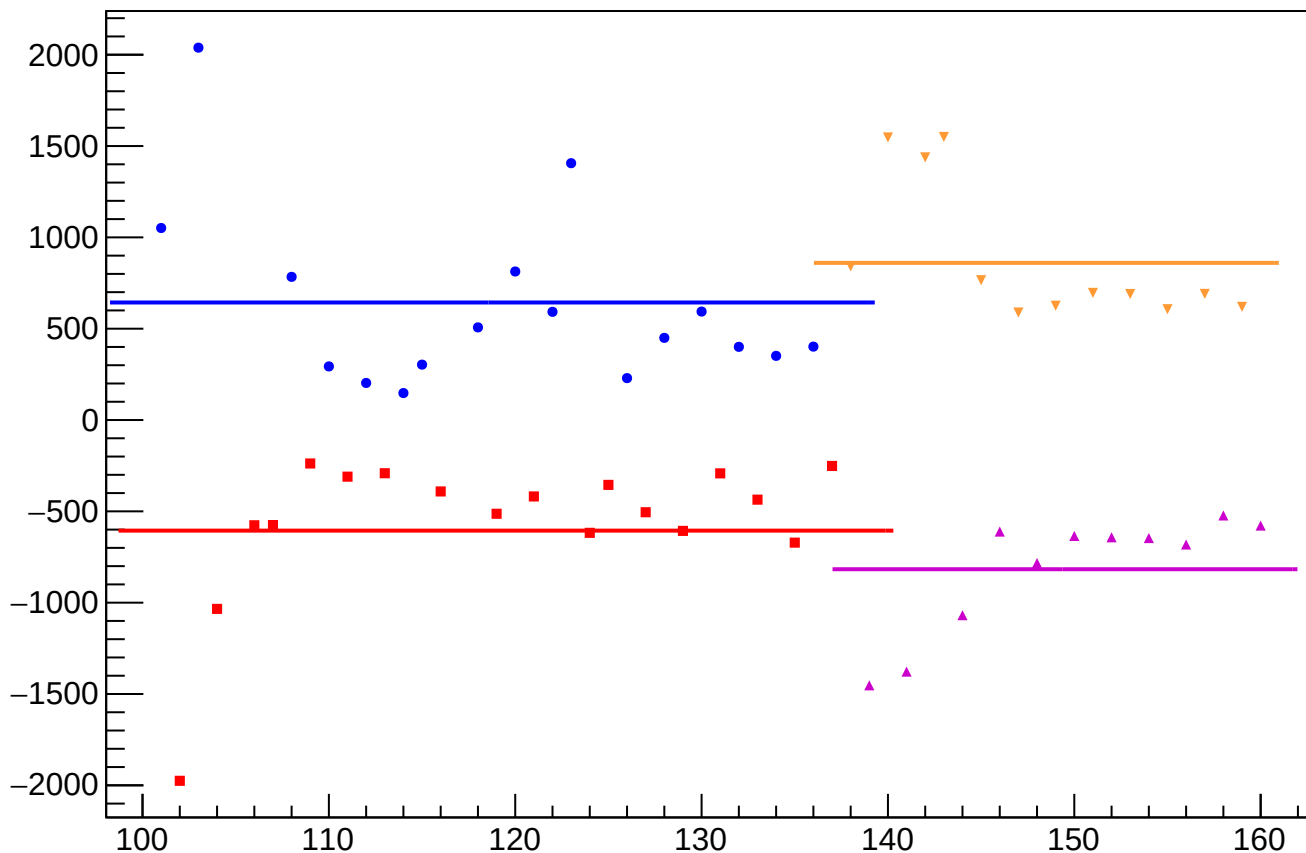
$\chi^2/\text{NDF}$ : 79791187049723357576303825736183029170176.0/17

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+/-0.000

$\chi^2/\text{NDF}$ : 166606755510131009794947888972916850688.0/16

Left Out: 860.333+/-0.000

$\chi^2/\text{NDF}$ : 113447619211020210726400023771184365568.0/11

Right Out: -605.599+/-0.000

$\chi^2/\text{NDF}$ : 146641318103644748879900892058773094400.0/17

Left In: -816.958+/-0.000

$\chi^2/\text{NDF}$ : 90193686816714640570749106655187697664.0/10

Left: 10.761+/-0.000  $\chi^2/\text{NDF}$ : 14989490126768698

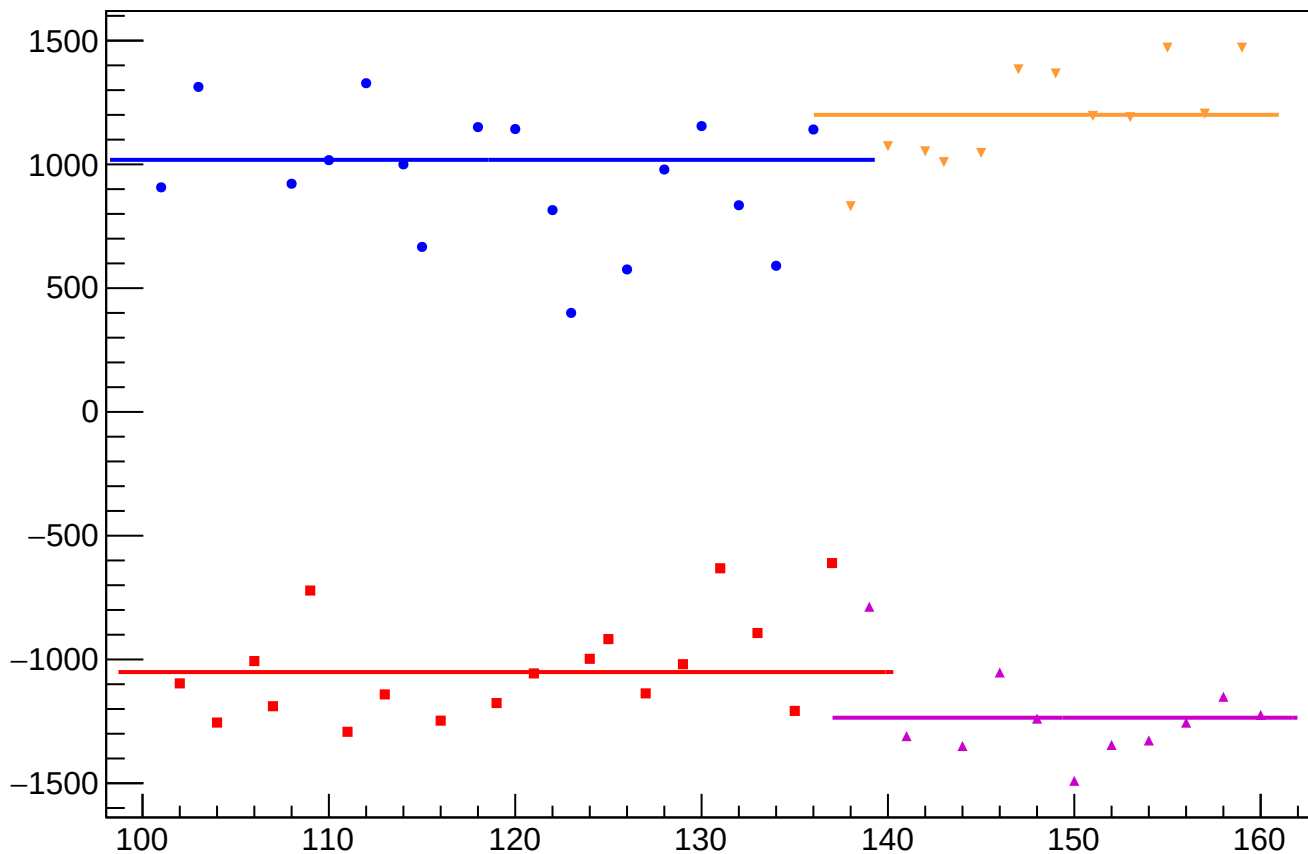
Right: 9.648+/-0.000  $\chi^2/\text{NDF}$ : 86273516072958254

In: -193.991+/-0.000  $\chi^2/\text{NDF}$ : 1105667142410364

Out: 214.926+/-0.000  $\chi^2/\text{NDF}$ : 1120115601075459

All: 10.279+/-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

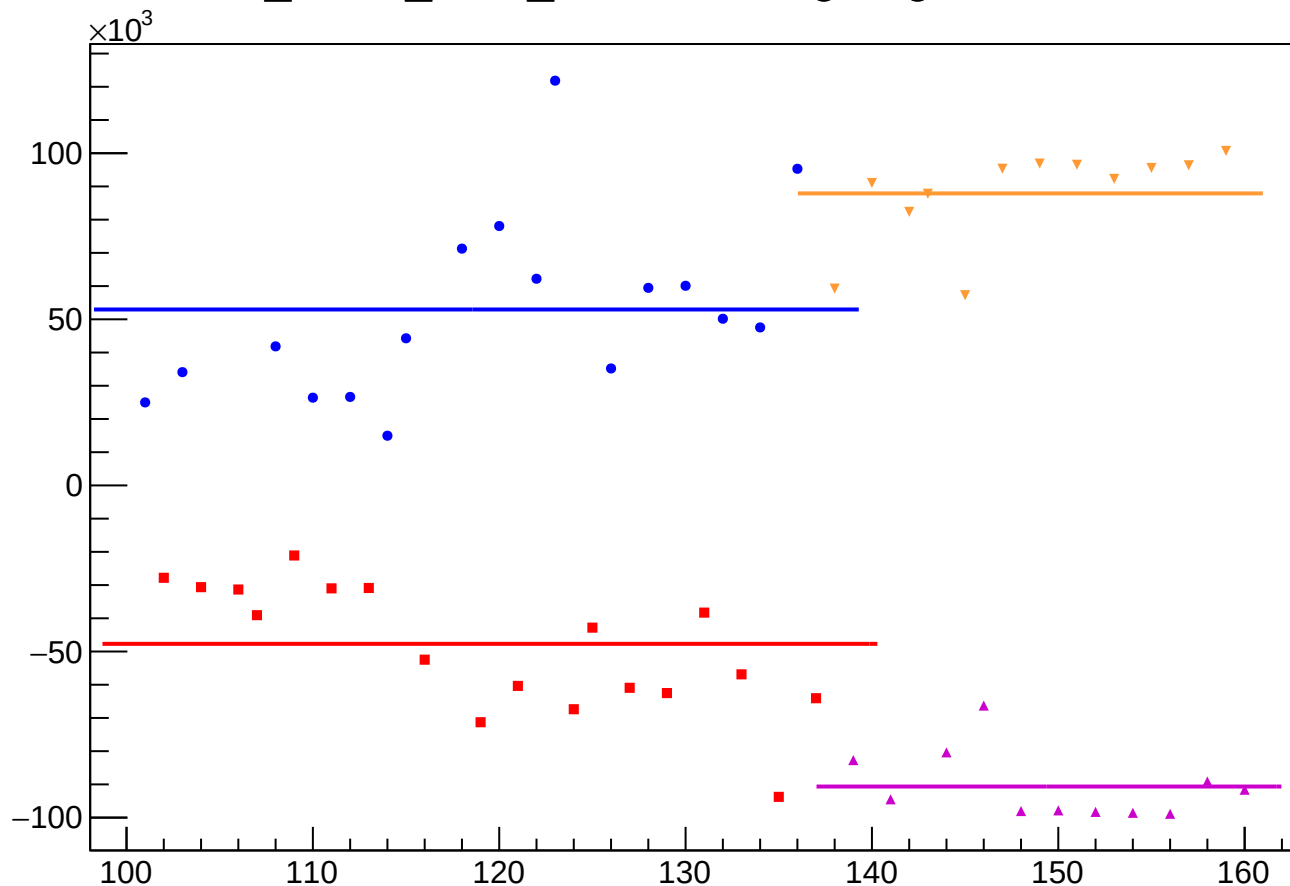
In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

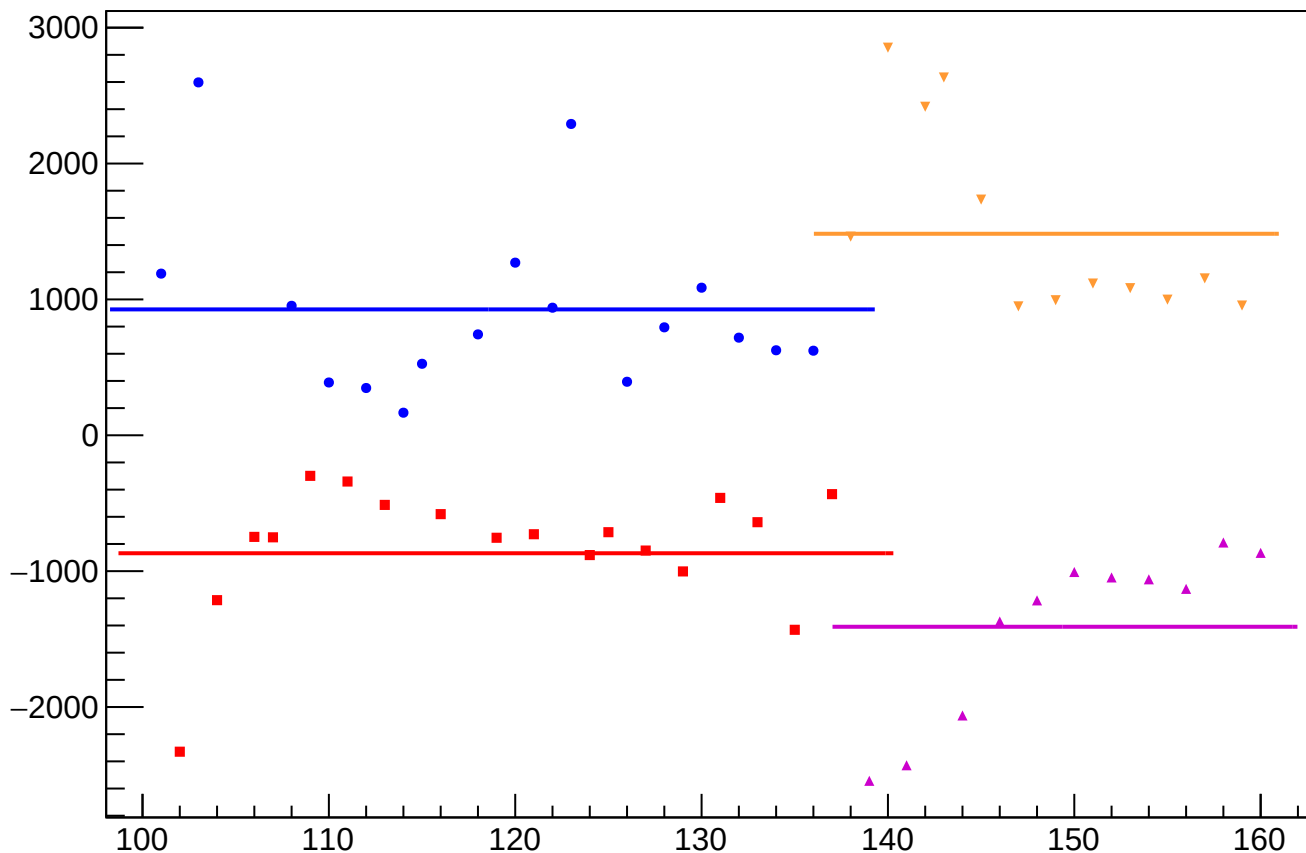


# dit\_sam4\_coil1\_mean vs Slug, Sign Corrected



|                               |                                                                       |                         |                                      |
|-------------------------------|-----------------------------------------------------------------------|-------------------------|--------------------------------------|
| Right In: 52960.923+/-0.000   | $\chi^2/\text{NDF}$ : 388091282862865702902242590456549457526784.0/16 | Left: -2533.049+/-0.000 | $\chi^2/\text{NDF}$ : 14949275385074 |
| Left Out: 87902.834+/-0.000   | $\chi^2/\text{NDF}$ : 181078064018170990794226695799487636439040.0/11 | Right: 1885.428+/-0.000 | $\chi^2/\text{NDF}$ : 42386131622338 |
| Right Out: -47689.948+/-0.000 | $\chi^2/\text{NDF}$ : 282811495062805394257124892434373518819328.0/17 | In: -29388.243+/-0.000  | $\chi^2/\text{NDF}$ : 86857312555297 |
| Left In: -90642.606+/-0.000   | $\chi^2/\text{NDF}$ : 90652199115187667262863496655433124282368.0/10  | Out: 28205.273+/-0.000  | $\chi^2/\text{NDF}$ : 78218430465247 |
|                               | 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

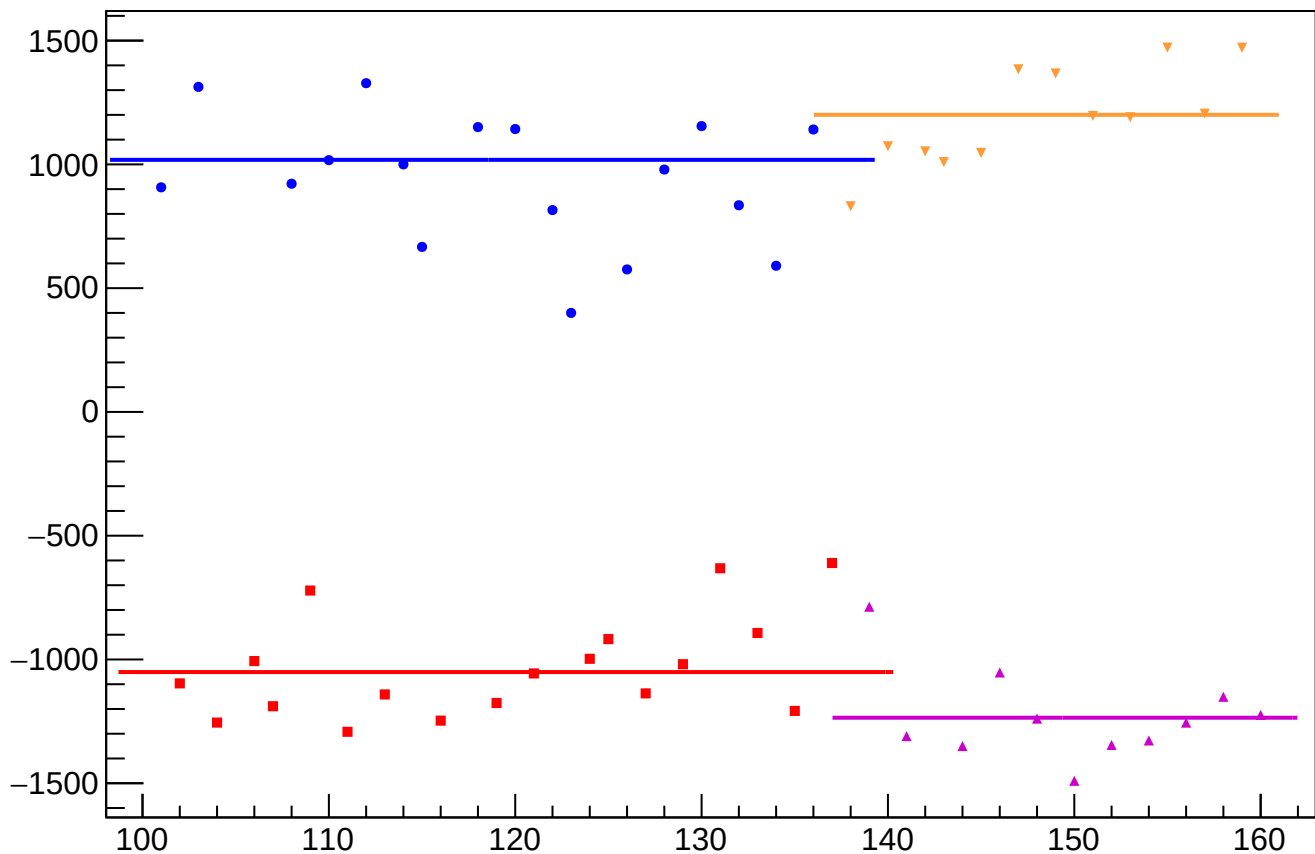
$\chi^2/\text{NDF}$ : 197961184826469333991871261895452262400.0/17

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

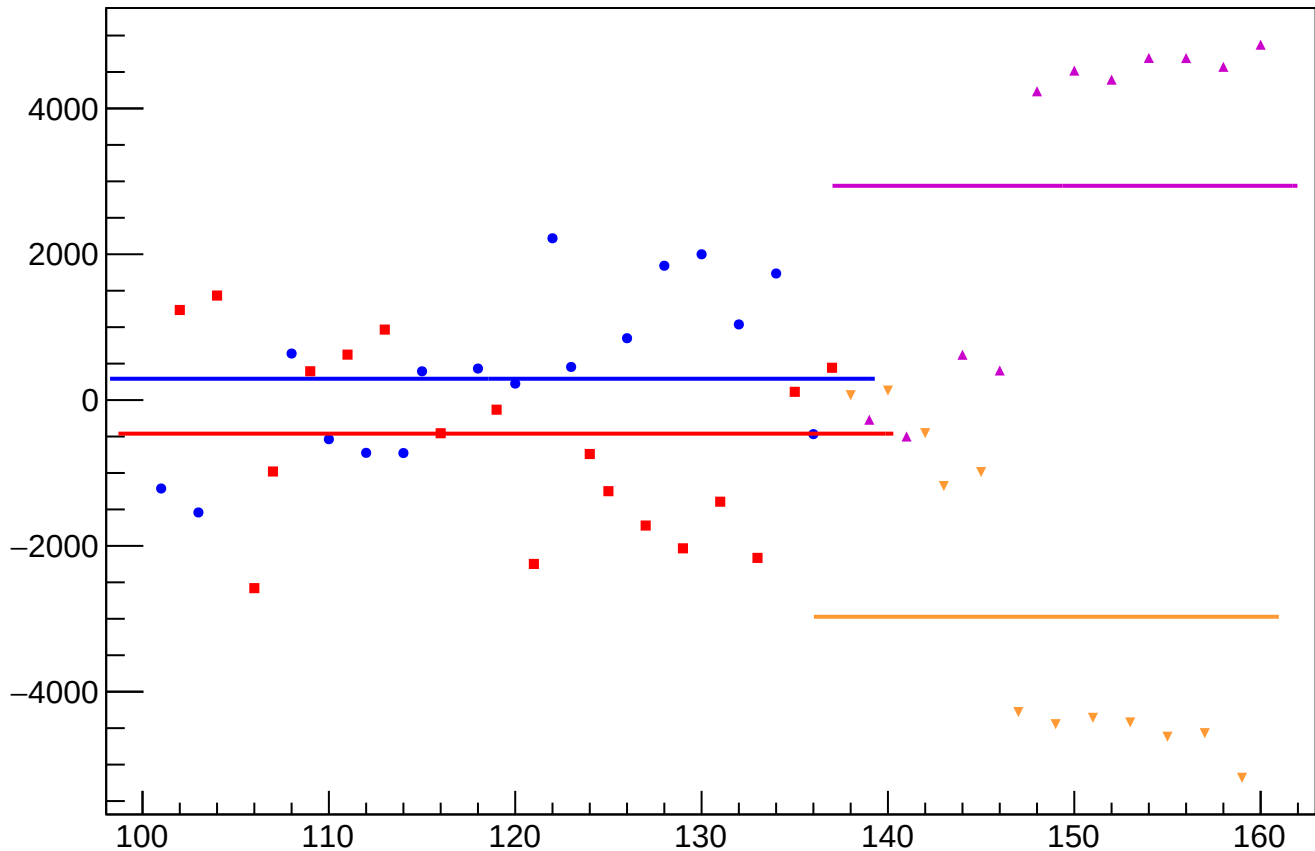
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

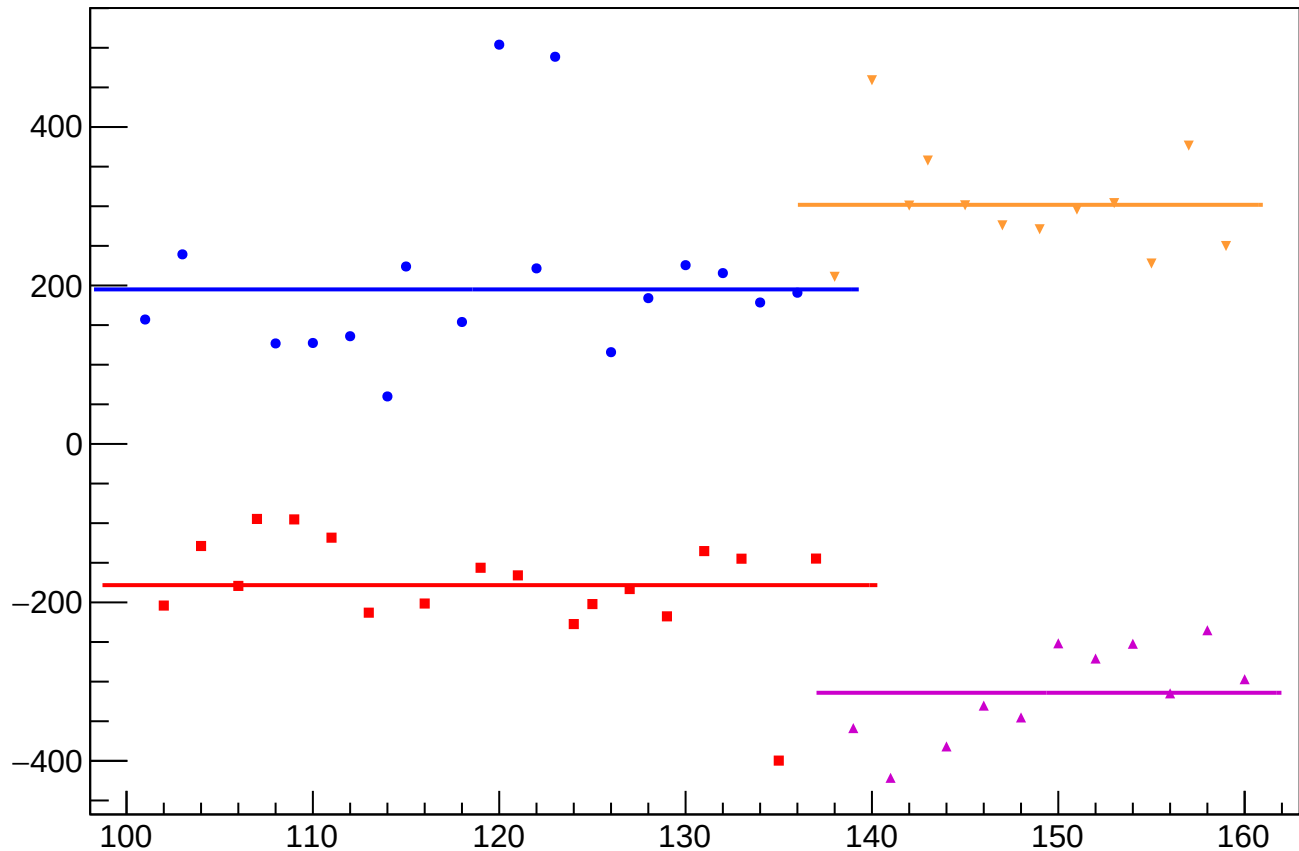
All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam5\_coil1\_mean vs Slug, Sign Corrected



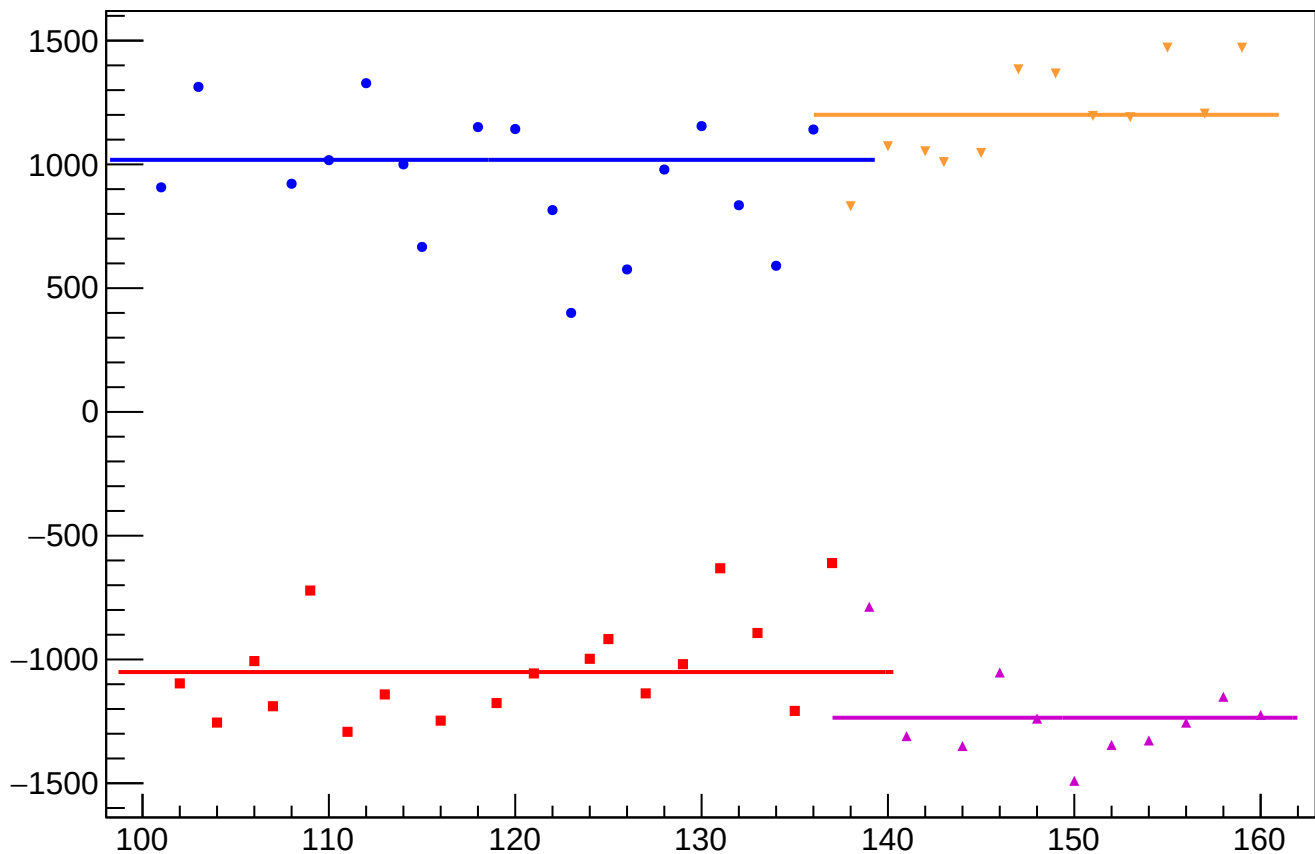
Right In: 292.624+/-0.000  $\chi^2/\text{NDF}$ : 992224758361668568621384832231814463488.0/16  
 Left Out: -2972.256+/-0.000  $\chi^2/\text{NDF}$ : 3761676179645694438437077561605877661696.0/11  
 Right Out: -460.444+/-0.000  $\chi^2/\text{NDF}$ : 1195390620297922800798852366593102446592.0/17  
 Left 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+/-0.000  $\chi^2/\text{NDF}$ : 5080024494184824251769530857650388992.0/16  
 Left Out: 301.805+/-0.000  $\chi^2/\text{NDF}$ : 4084053009607102608824389490062655488.0/11  
 Right Out: -178.222+/-0.000  $\chi^2/\text{NDF}$ : 3636798558444840391154572885518974976.0/17  
 Left In: -314.075+/-0.000  $\chi^2/\text{NDF}$ : 3038378746515633770905831871124340736.0/10  
 All: -3.309+/-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

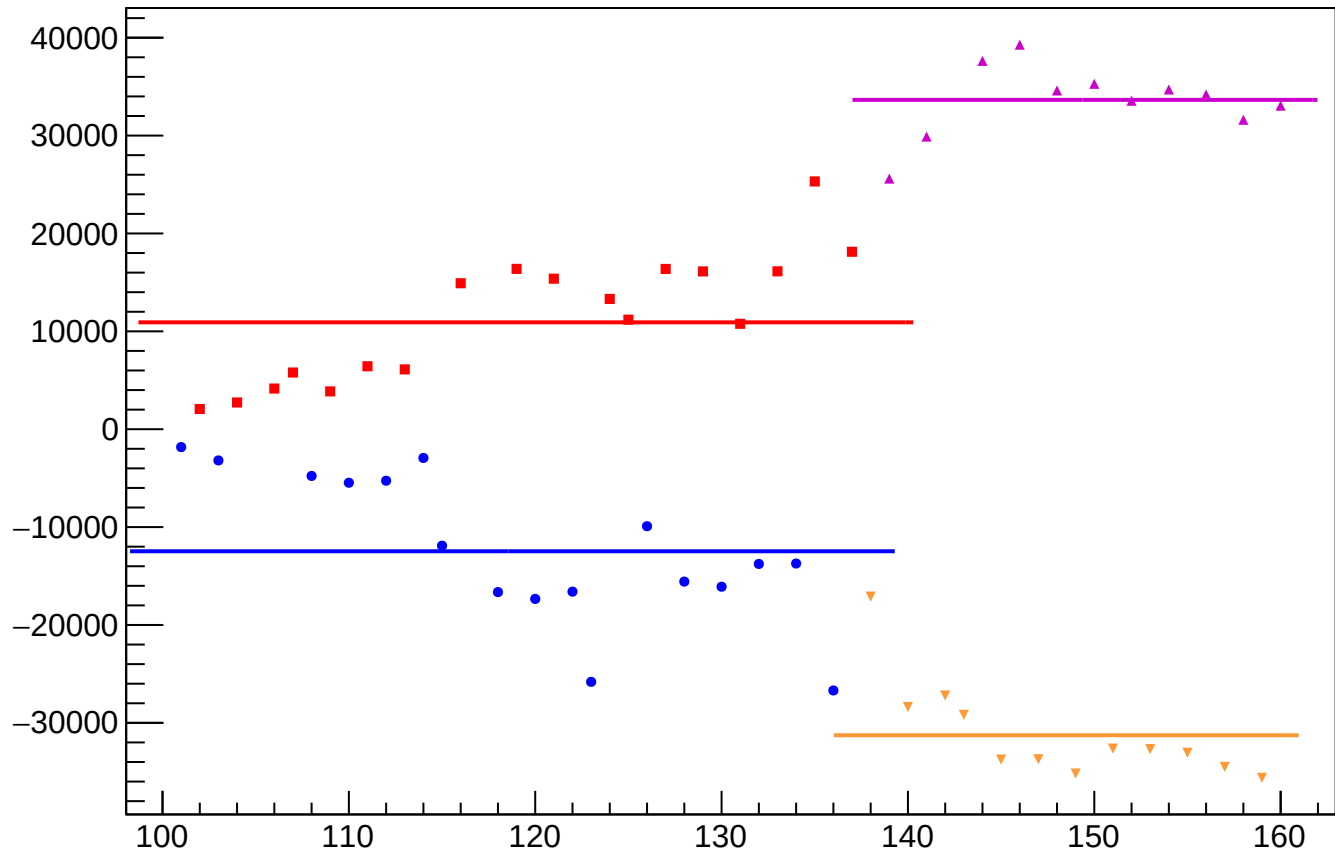
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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

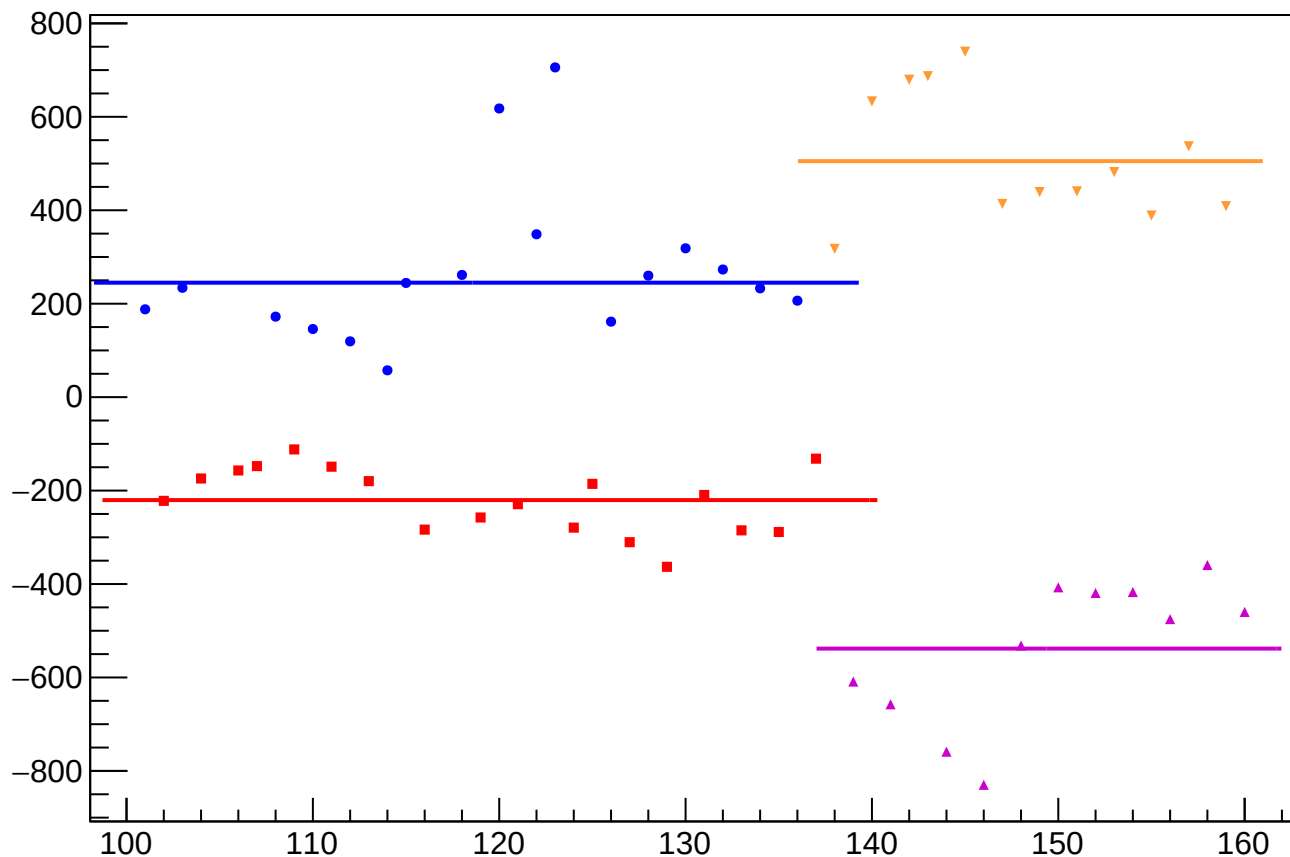
Right: -599.764+/-0.000  $\chi^2/\text{NDF}$ : 26675570352748

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

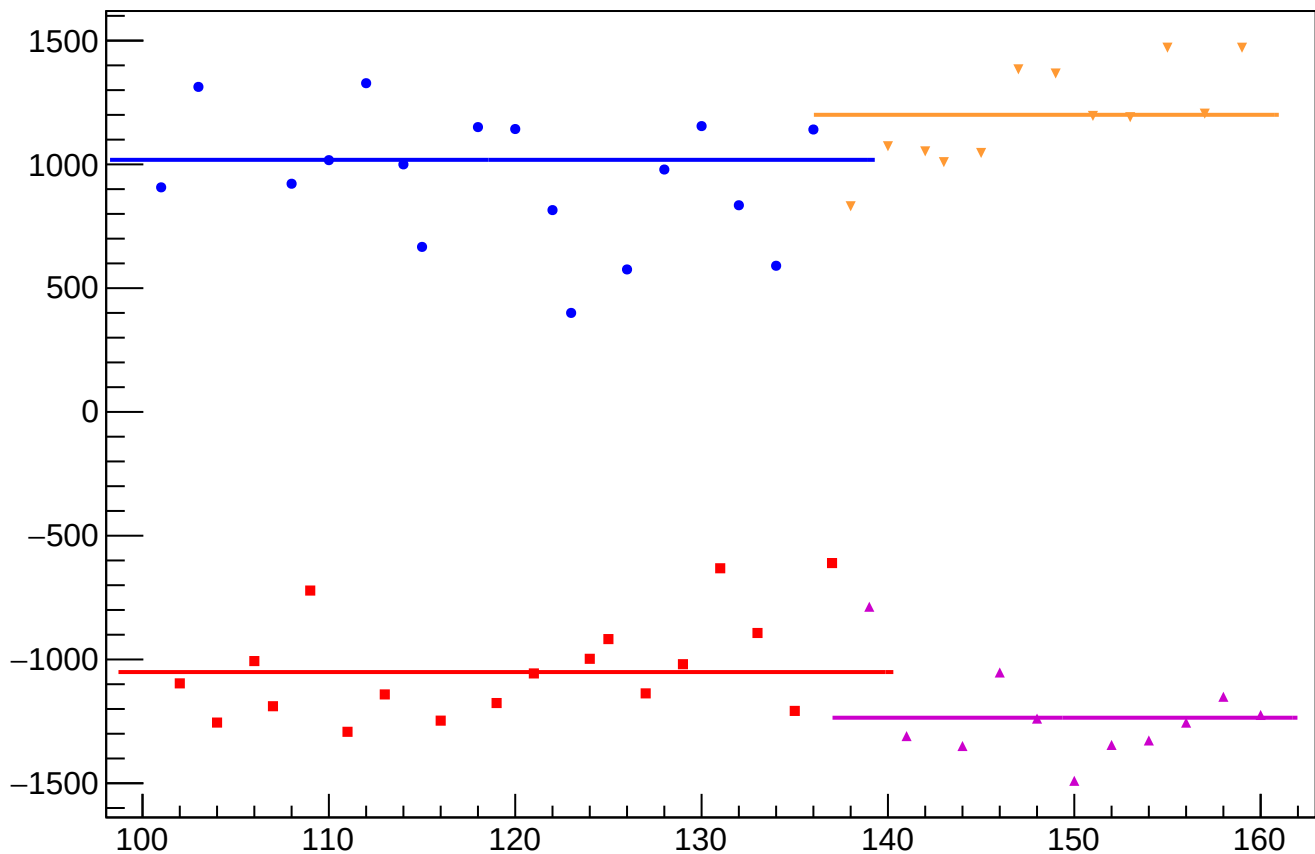
dit\_sam6\_coil1\_err\_mean vs Slug, Sign Corrected



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

Left: -33.377+/-0.000  $\chi^2/\text{NDF}$ : 2794350173420514

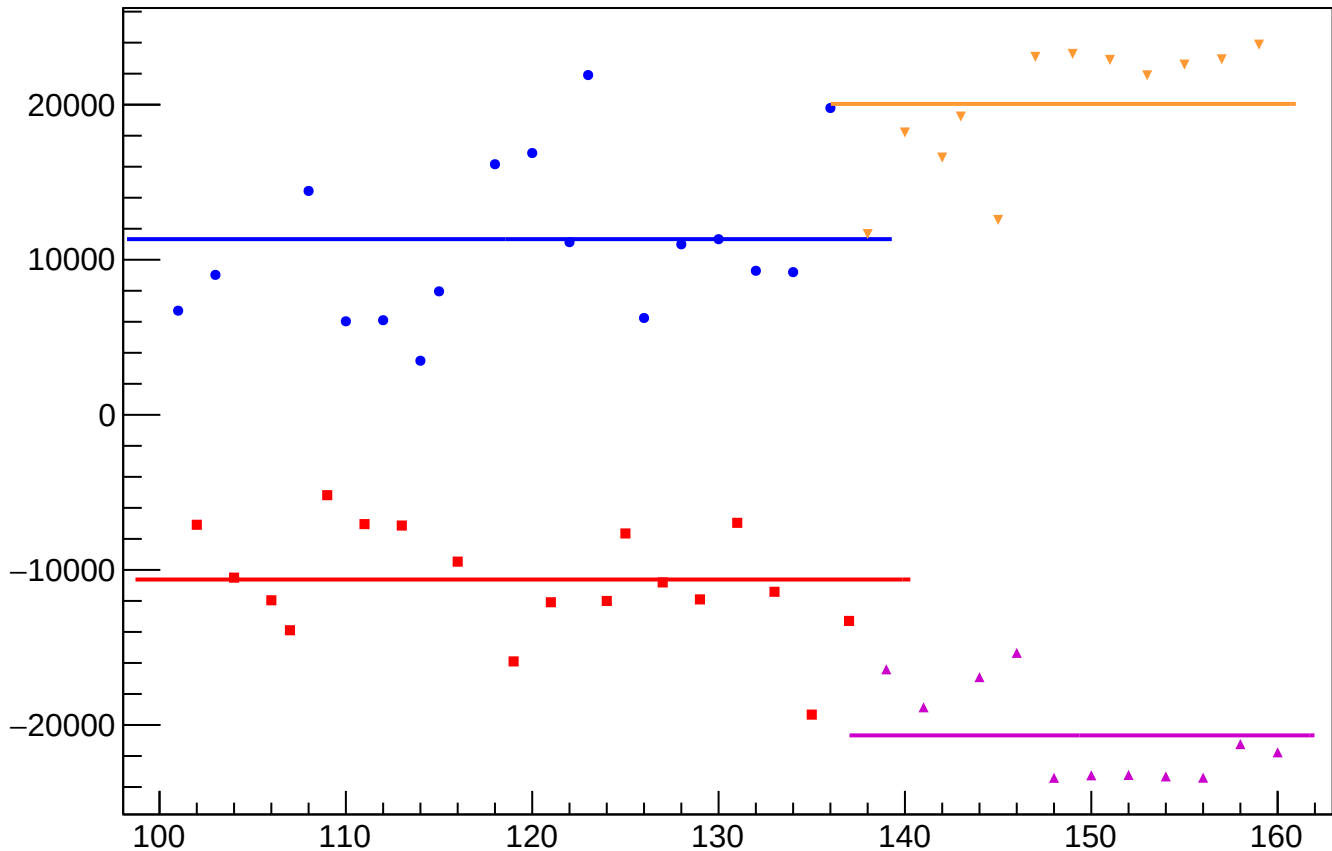
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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\_sam7\_coil1\_mean vs Slug, Sign Corrected



Right In: 11329.210+/-0.000

Left: -575.604+/-0.000  $\chi^2/\text{NDF}$ : 787490977590179

Left Out: 20050.081+/-0.000

Right: 191.453+/-0.000  $\chi^2/\text{NDF}$ : 195245861840049

Right Out: -10619.182+/-0.000

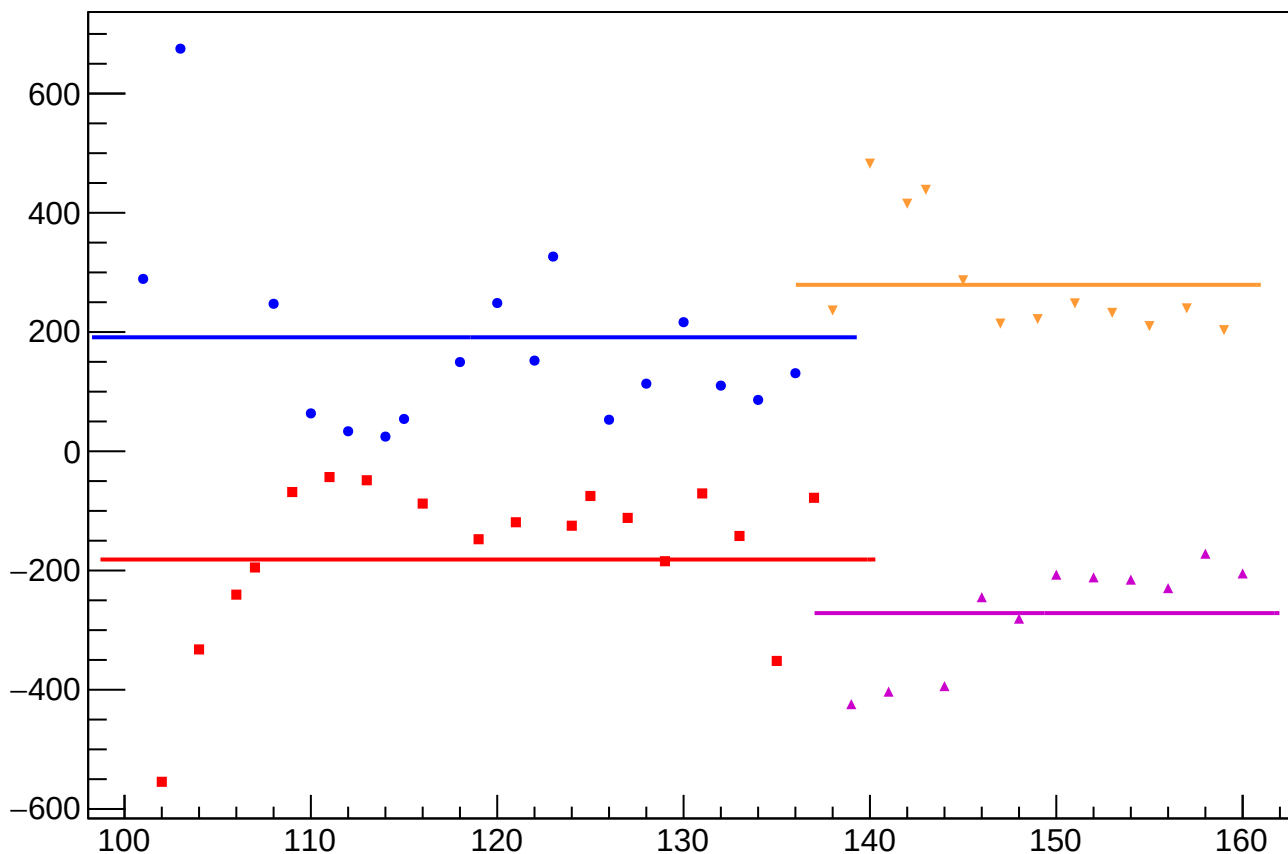
In: -7021.091+/-0.000  $\chi^2/\text{NDF}$ : 431539395556195

Left In: -20670.726+/-0.000

Out: 6547.296+/-0.000  $\chi^2/\text{NDF}$ : 402039102823290

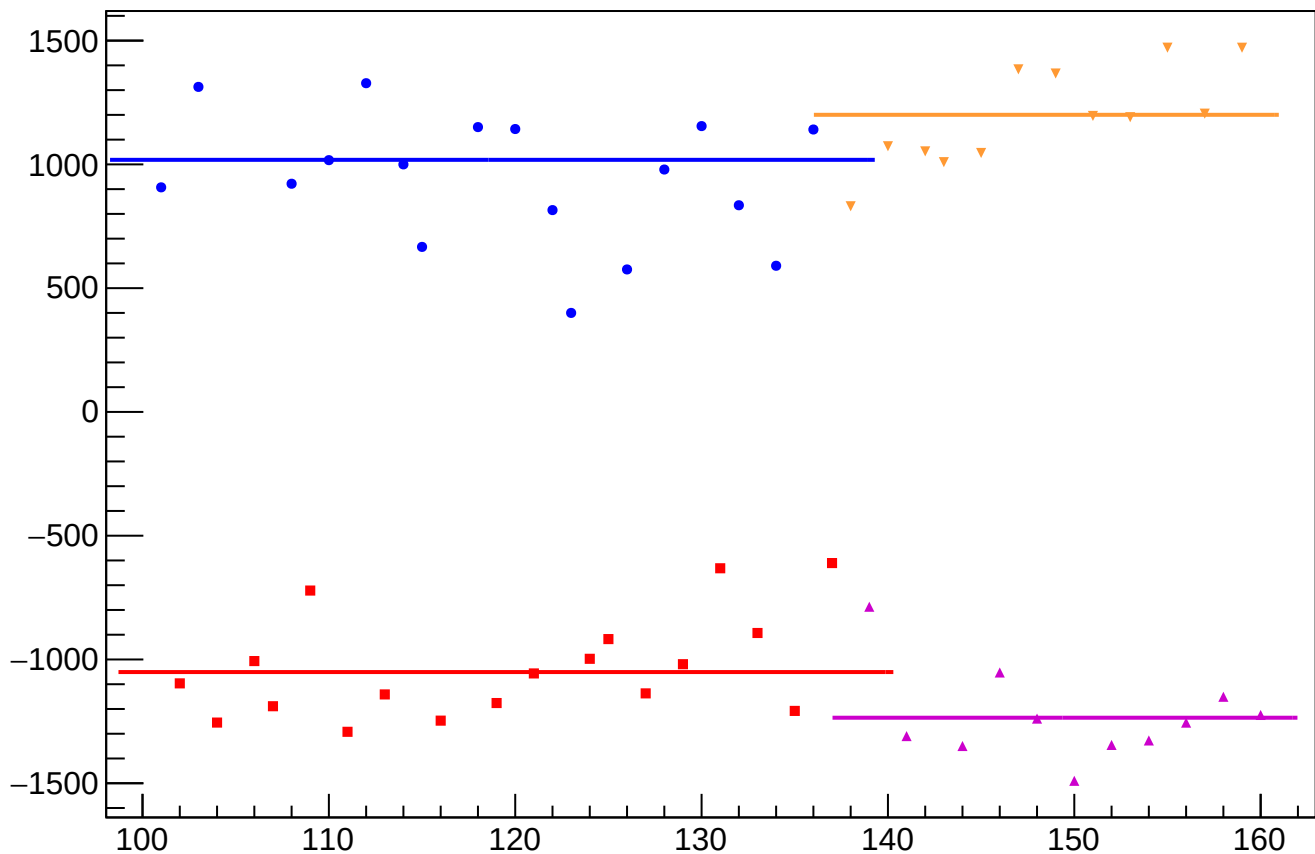
All: -243.158+/-0.000  $\chi^2/\text{NDF}$ : 98320655990

dit\_sam7\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 191.191 $\pm$ 0.000  $\chi^2$ /NDF: 19183697593820495387775377202474909696.0/16  
 Left Out: 279.165 $\pm$ 0.000  $\chi^2$ /NDF: 7920210699485411791931517458268028928.0/11  
 Right Out: -181.551 $\pm$ 0.000  $\chi^2$ /NDF: 14852803264995019247576775913608577024.0/17  
 Left In: -271.426 $\pm$ 0.000  $\chi^2$ /NDF: 7049081855860572674907173749109293056.0/10  
 All: 1.045 $\pm$ 0.000  $\chi^2$ /NDF: 2375146315916

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

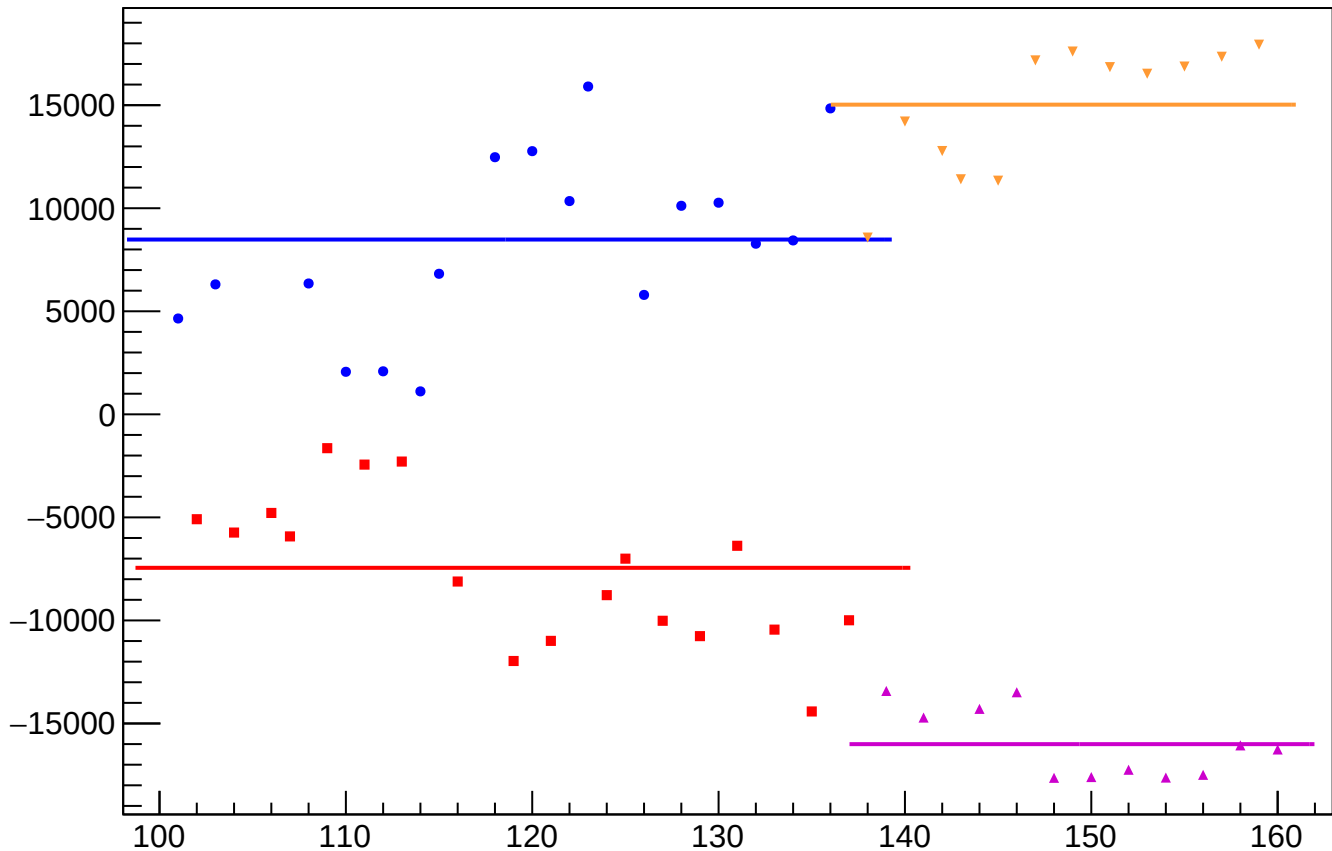
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

In: -273.986+/-0.000  $\chi^2/\text{NDF}$ : 2083200596416121

Out: 209.183+/-0.000  $\chi^2/\text{NDF}$ : 2089011032009014

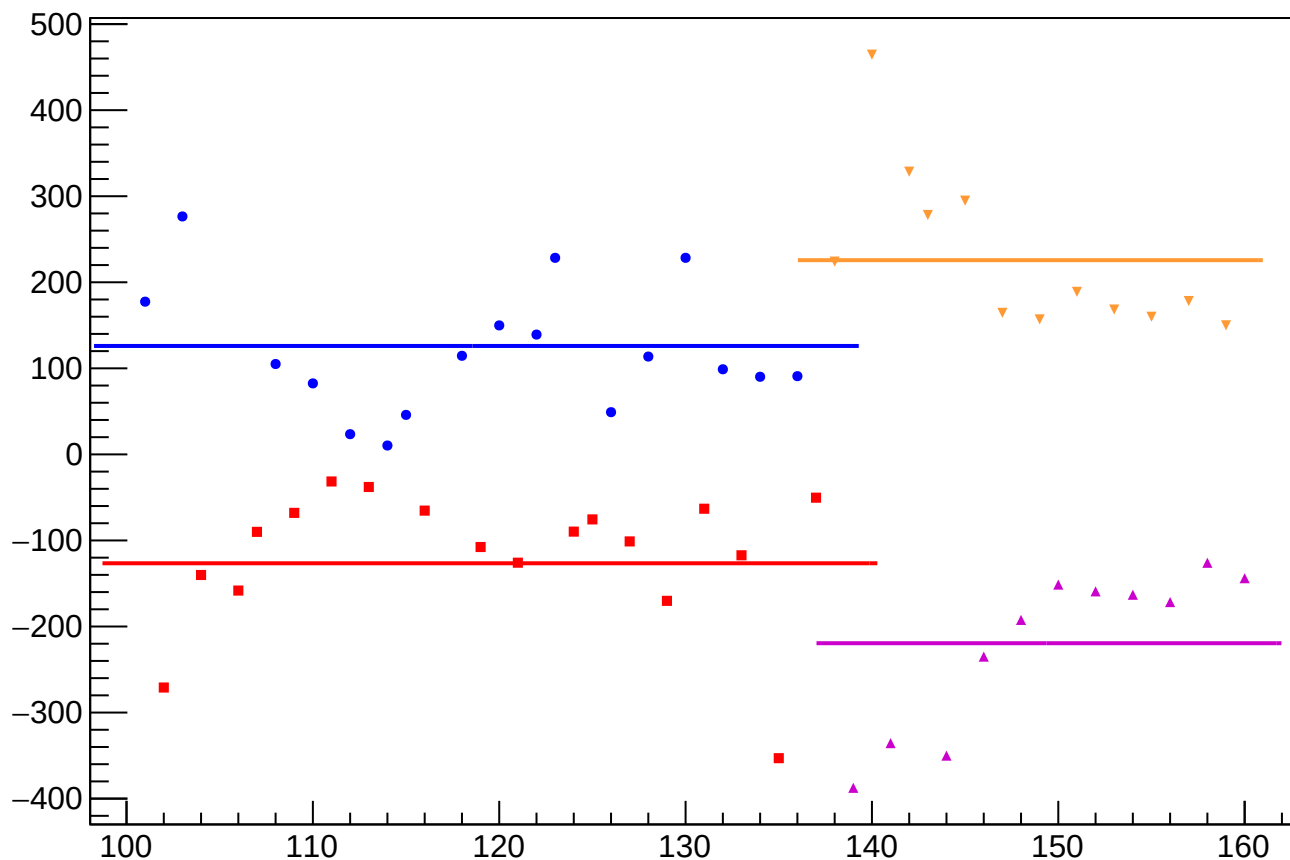
All: -32.624+/-0.000  $\chi^2/\text{NDF}$ : 436195009310

# dit\_sam8\_coil1\_mean vs Slug, Sign Corrected



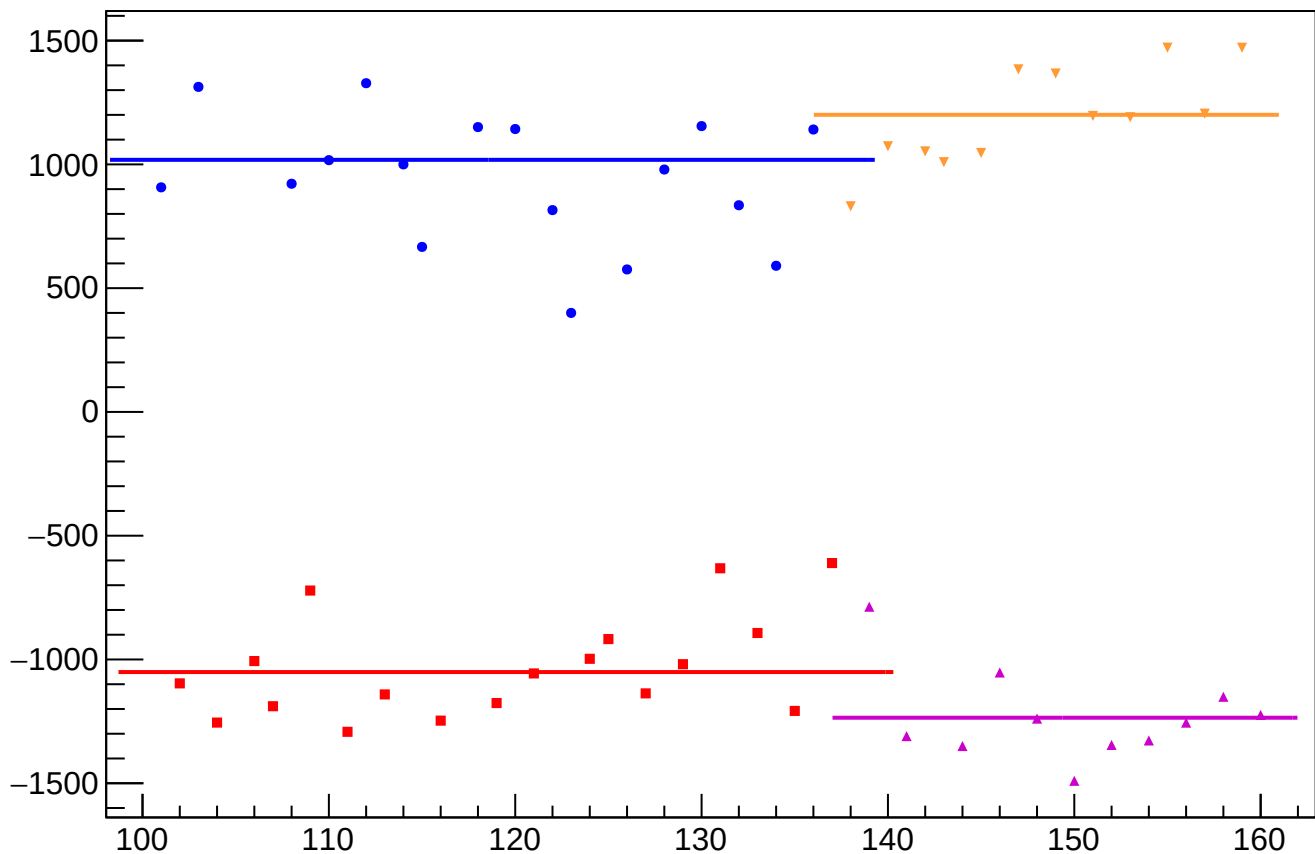
Right In: 8480.889 $\pm$ 0.000  $\chi^2$ /NDF: 11499484754166446401410720405854359650304.0/16  
 Left Out: 15025.757 $\pm$ 0.000  $\chi^2$ /NDF: 8187740092033082050104349904869741559808.0/11  
 Right Out: -7447.217 $\pm$ 0.000  $\chi^2$ /NDF: 10045808642952263494281474112188504342528.0/17  
 Left In: -16002.617 $\pm$ 0.000  $\chi^2$ /NDF: 2475406713829870725608341548092805349376.0/10  
 All: -218.717 $\pm$ 0.000  $\chi^2$ /NDF: 56577797578

dit\_sam8\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 126.005 $\pm$ 0.000  $\chi^2$ /NDF: 3386025781144831306970150054630785024.0/16  
 Left Out: 225.692 $\pm$ 0.000  $\chi^2$ /NDF: 7765824995412425286122153901765427200.0/11  
 Right Out: -126.521 $\pm$ 0.000  $\chi^2$ /NDF: 5291778643595712336156745298356469760.0/17  
 Left In: -219.416 $\pm$ 0.000  $\chi^2$ /NDF: 7417643300202175953458768997657870336.0/10  
 All: -0.792 $\pm$ 0.000  $\chi^2$ /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

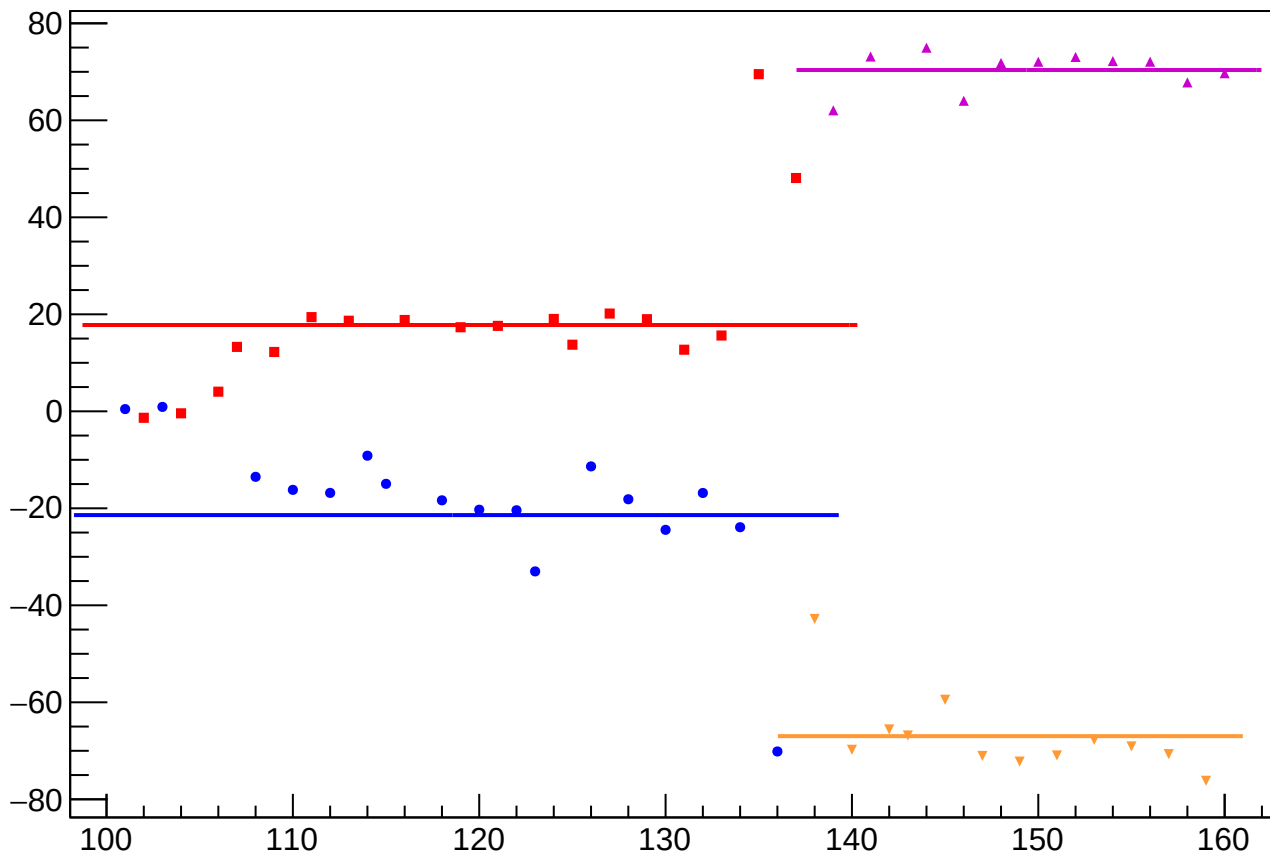
Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946

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

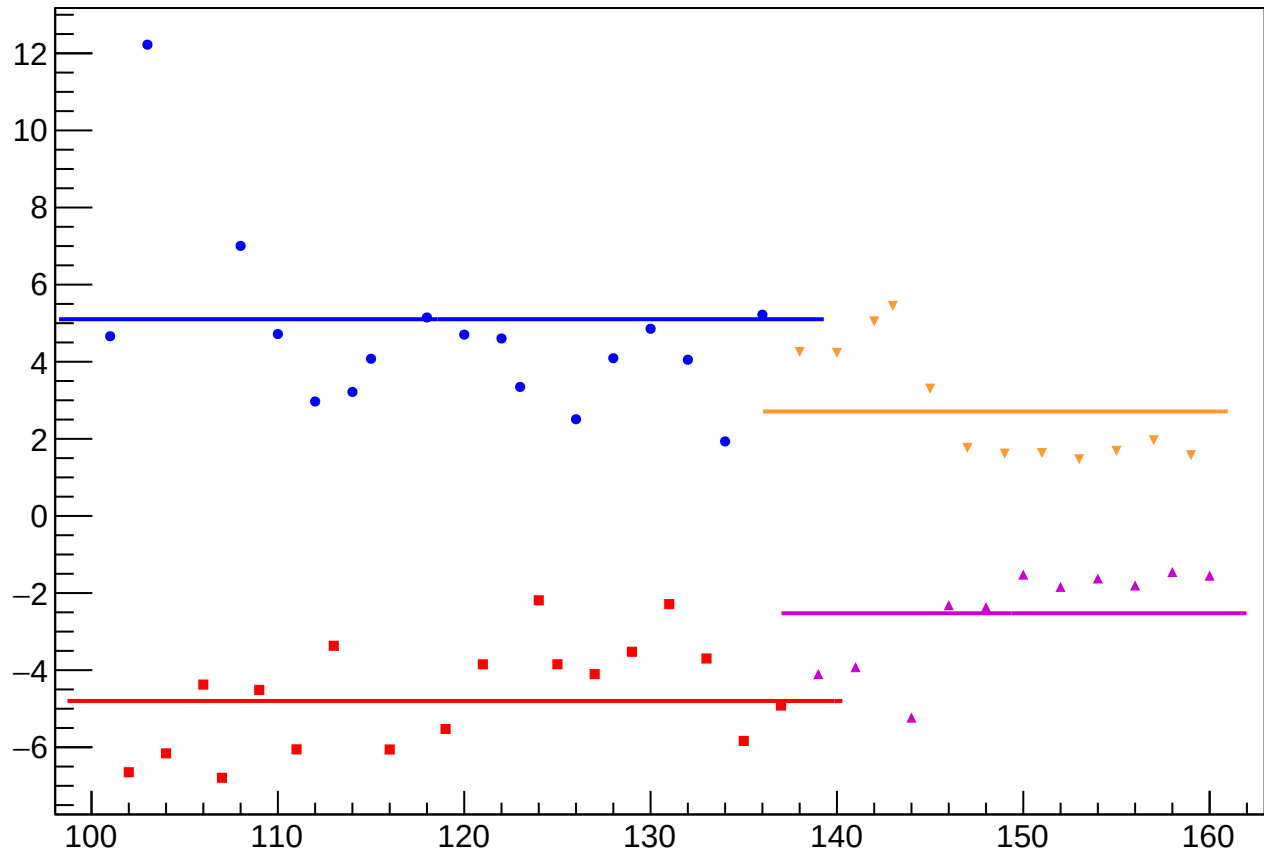
In: 31.228+/-0.000  $\chi^2/\text{NDF}$ : 364590997296743211

Out: -29.654+/-0.000  $\chi^2/\text{NDF}$ : 3134342076596481

All: 0.815+/-0.000  $\chi^2/\text{NDF}$ : 97928246020073

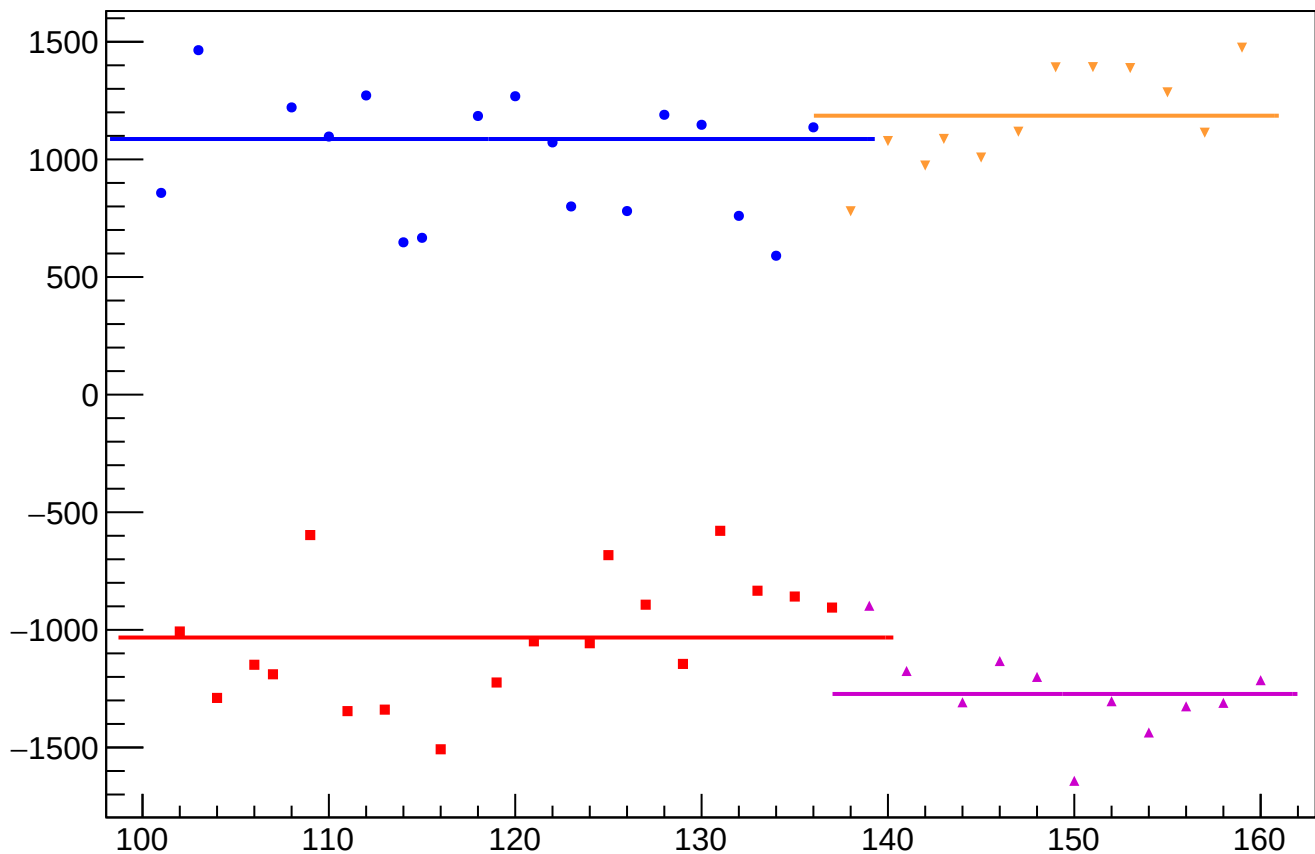


dit\_4aX\_coil3\_err\_mean vs Slug, Sign Corrected



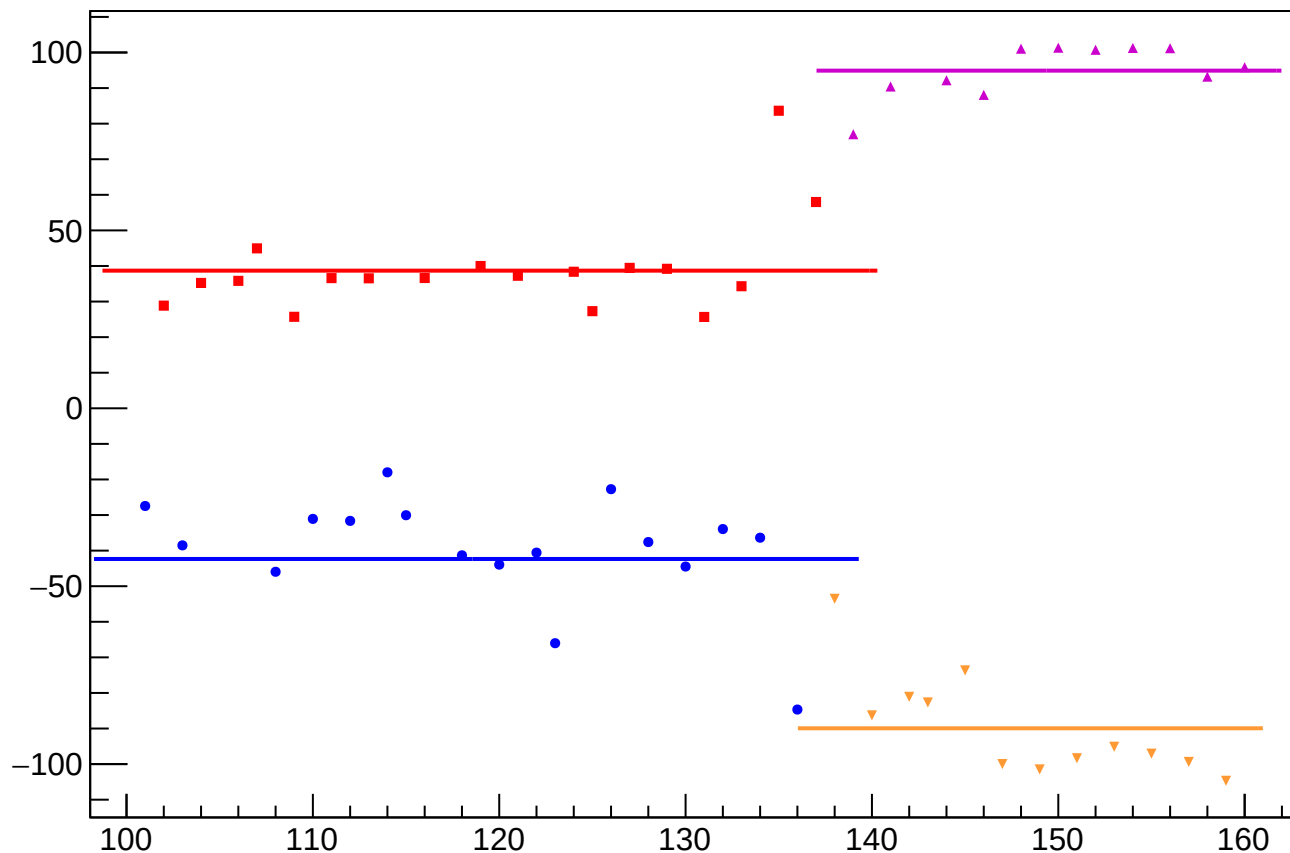
Right In: 5.103 +/- 0.000  $\chi^2/NDF$ : 4048406978190508053530993177395200.0/16  
 Left Out: 2.710 +/- 0.000  $\chi^2/NDF$ : 1774159043511346014201510128254976.0/11  
 Right Out: -4.799 +/- 0.000  $\chi^2/NDF$ : 1271869445641912698697536291995648.0/17  
 Left In: -2.524 +/- 0.000  $\chi^2/NDF$ : 1443854563513341294387646202642432.0/10  
 All: 0.067 +/- 0.000  $\chi^2/NDF$ : 55678277230235

dit\_4aX\_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\_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

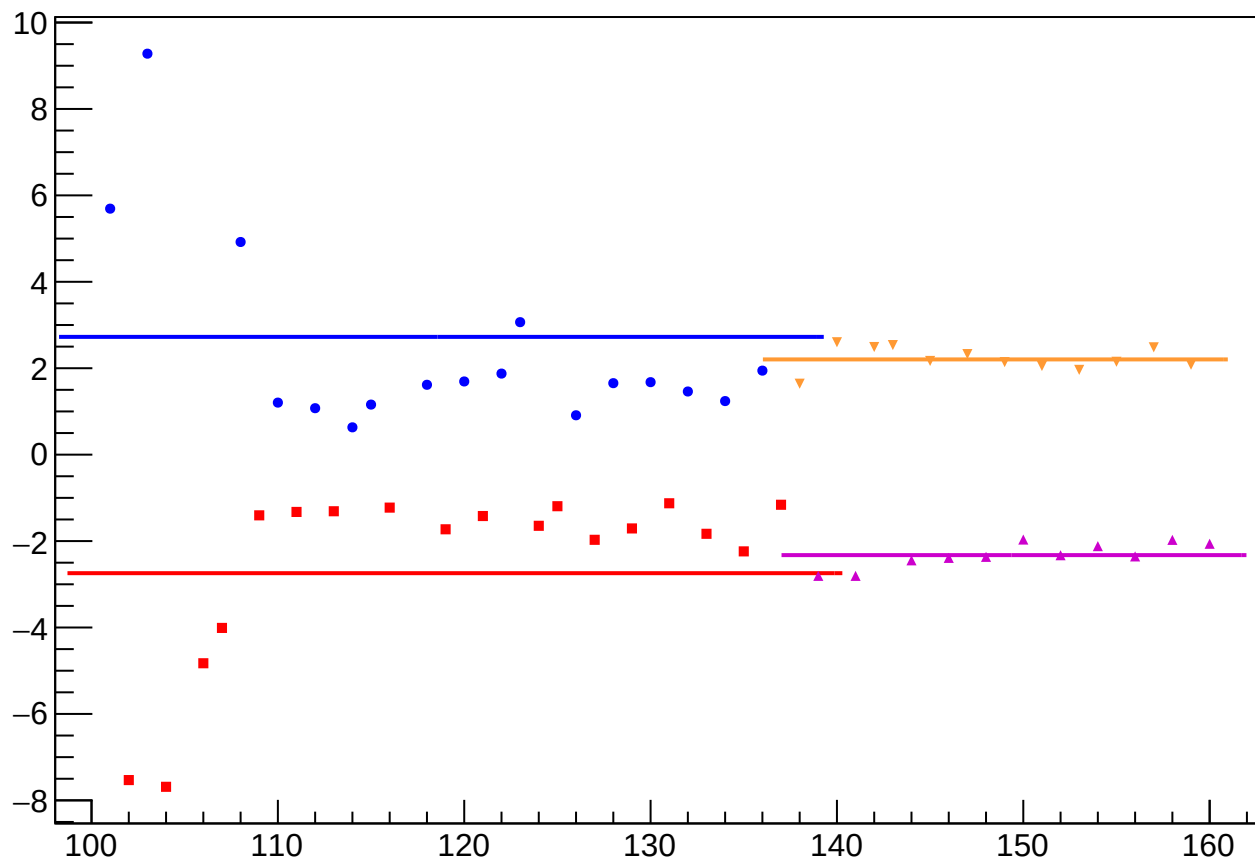
Right: -1.226+/-0.000  $\chi^2/\text{NDF}$ : 2659977091062519

In: 36.357+/-0.000  $\chi^2/\text{NDF}$ : 776037945443292169

Out: -33.304+/-0.000  $\chi^2/\text{NDF}$ : 6940516204701080

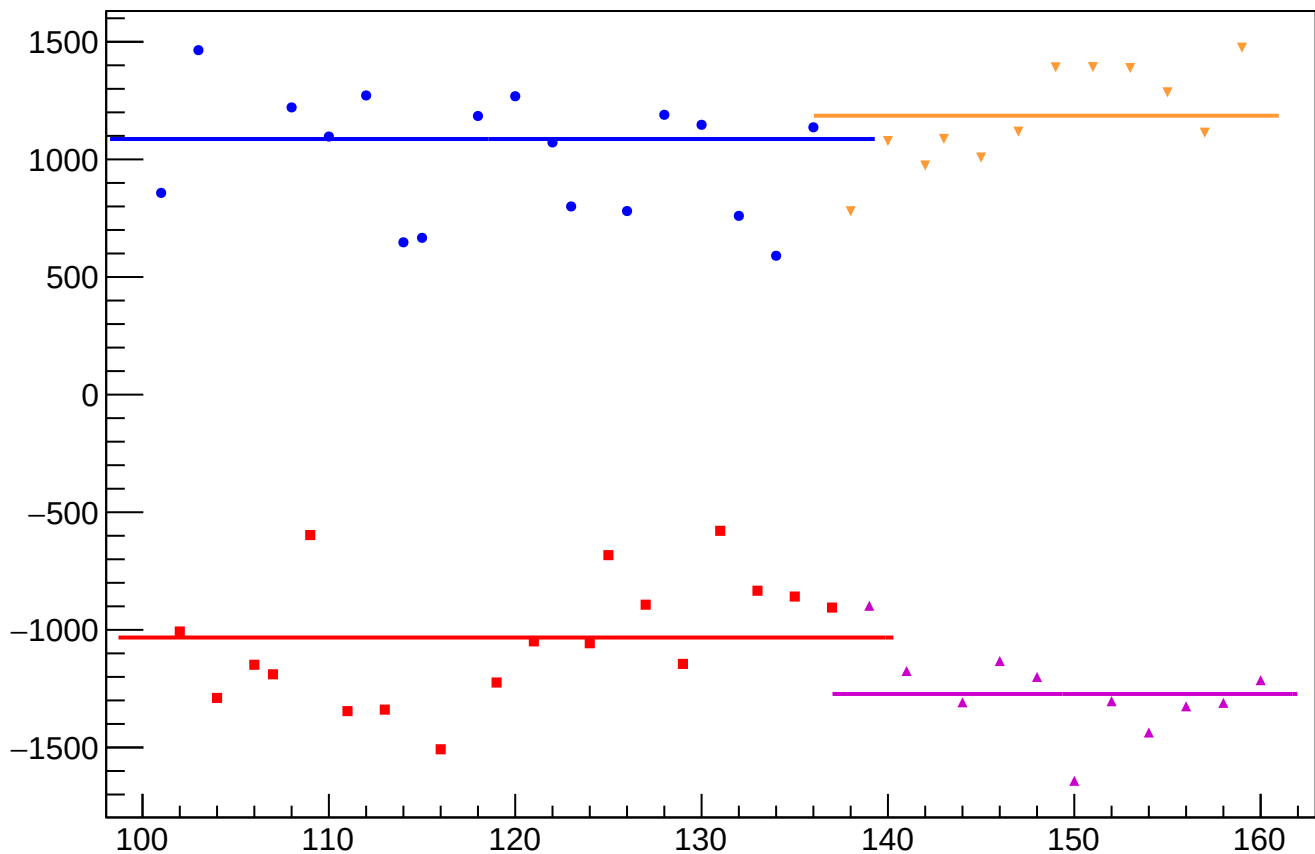
All: 1.559+/-0.000  $\chi^2/\text{NDF}$ : 18644925895826

dit\_4eX\_coil3\_err\_mean vs Slug, Sign Corrected



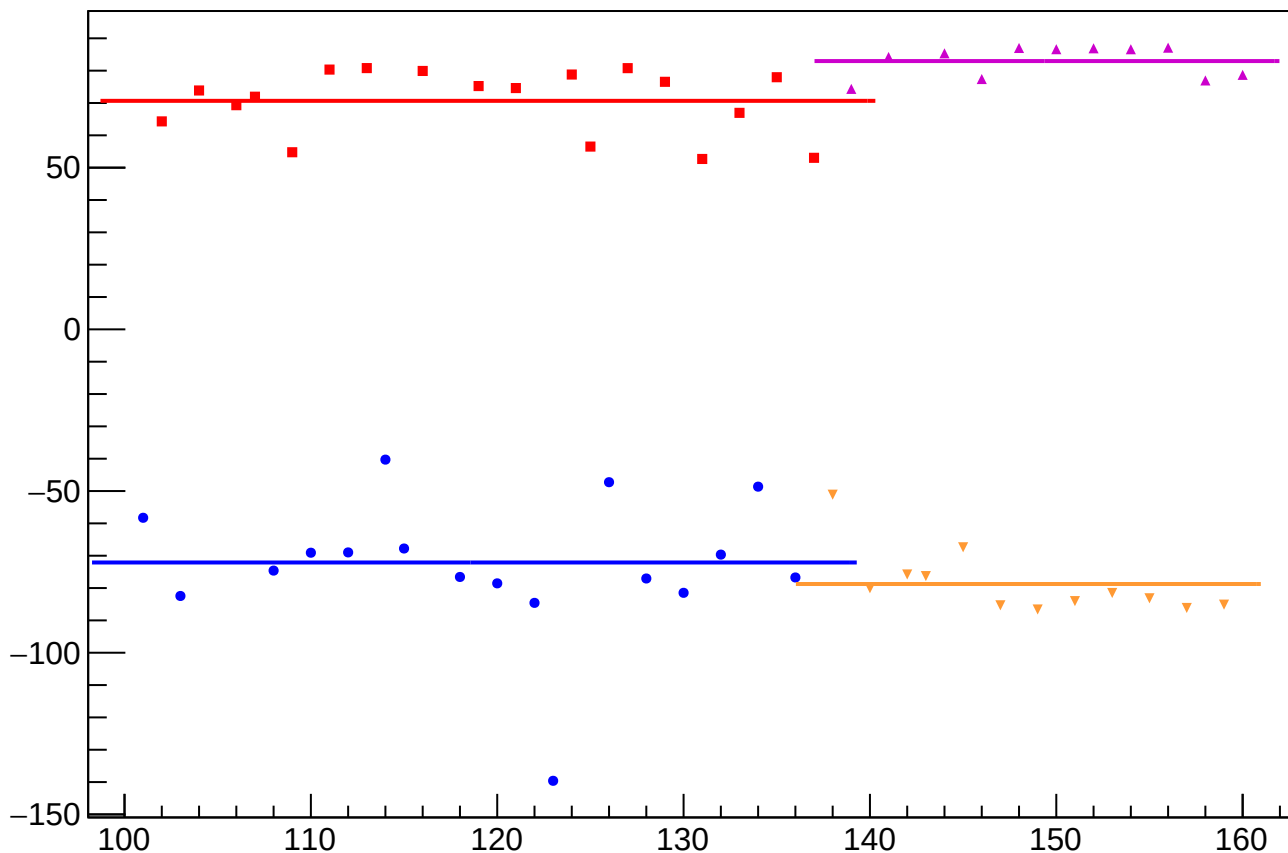
Right In: 2.726 $\pm$ 0.000  $\chi^2$ /NDF: 4086214221048218627232910568062976.0/16  
 Left Out: 2.204 $\pm$ 0.000  $\chi^2$ /NDF: 64341762429168624767253736325120.0/11  
 Right Out: -2.743 $\pm$ 0.000  $\chi^2$ /NDF: 3588318821230369709737363581698048.0/17  
 Left In: -2.325 $\pm$ 0.000  $\chi^2$ /NDF: 71570259822113159465865385607168.0/10  
 All: -0.072 $\pm$ 0.000  $\chi^2$ /NDF: 2778523853871

dit\_4eX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1086.695 \pm 0.000$   $\chi^2/\text{NDF}: 34612834720892896264590202148866752512.0/16$   
 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\_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

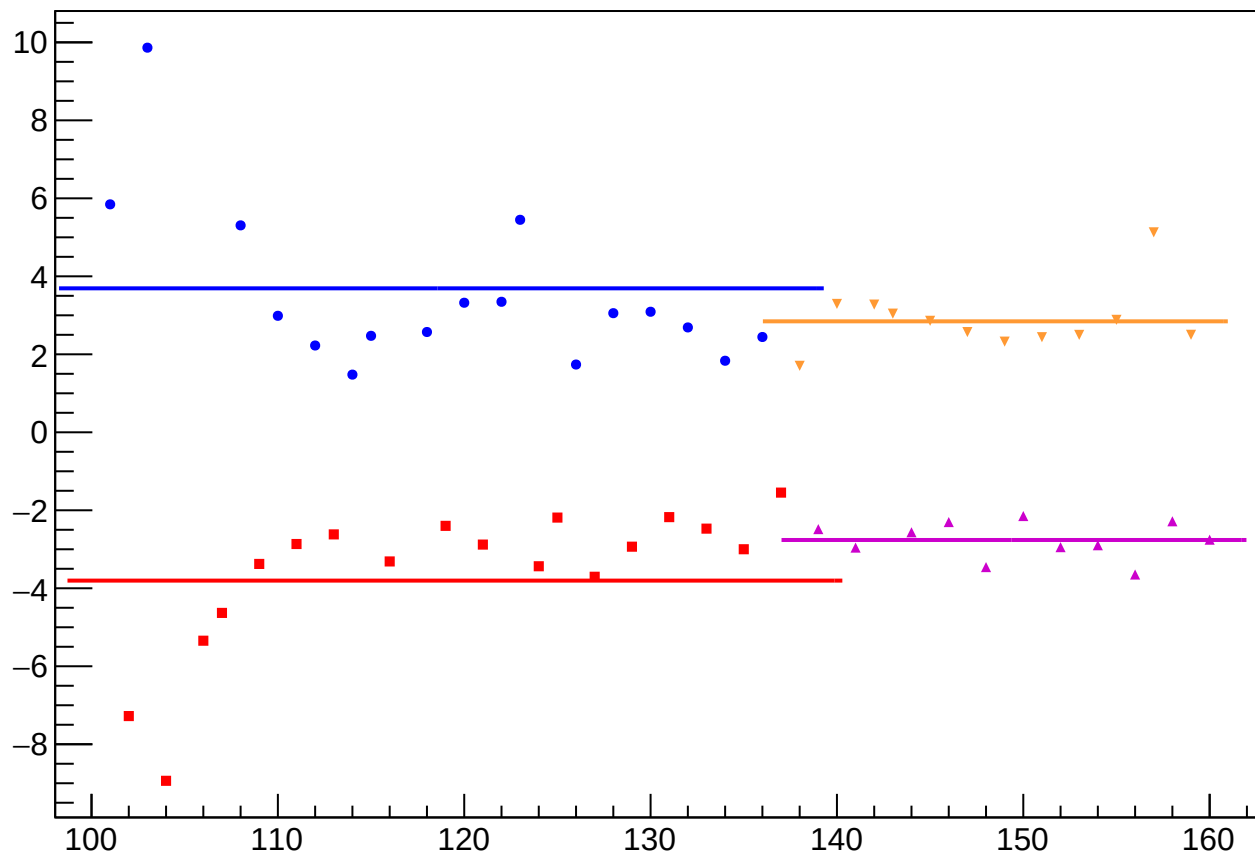
Right: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 73439703870243937

In: 16.825+/-0.000  $\chi^2/\text{NDF}$ : 969185214083124883

Out: -12.965+/-0.000  $\chi^2/\text{NDF}$ : 9088636666541269

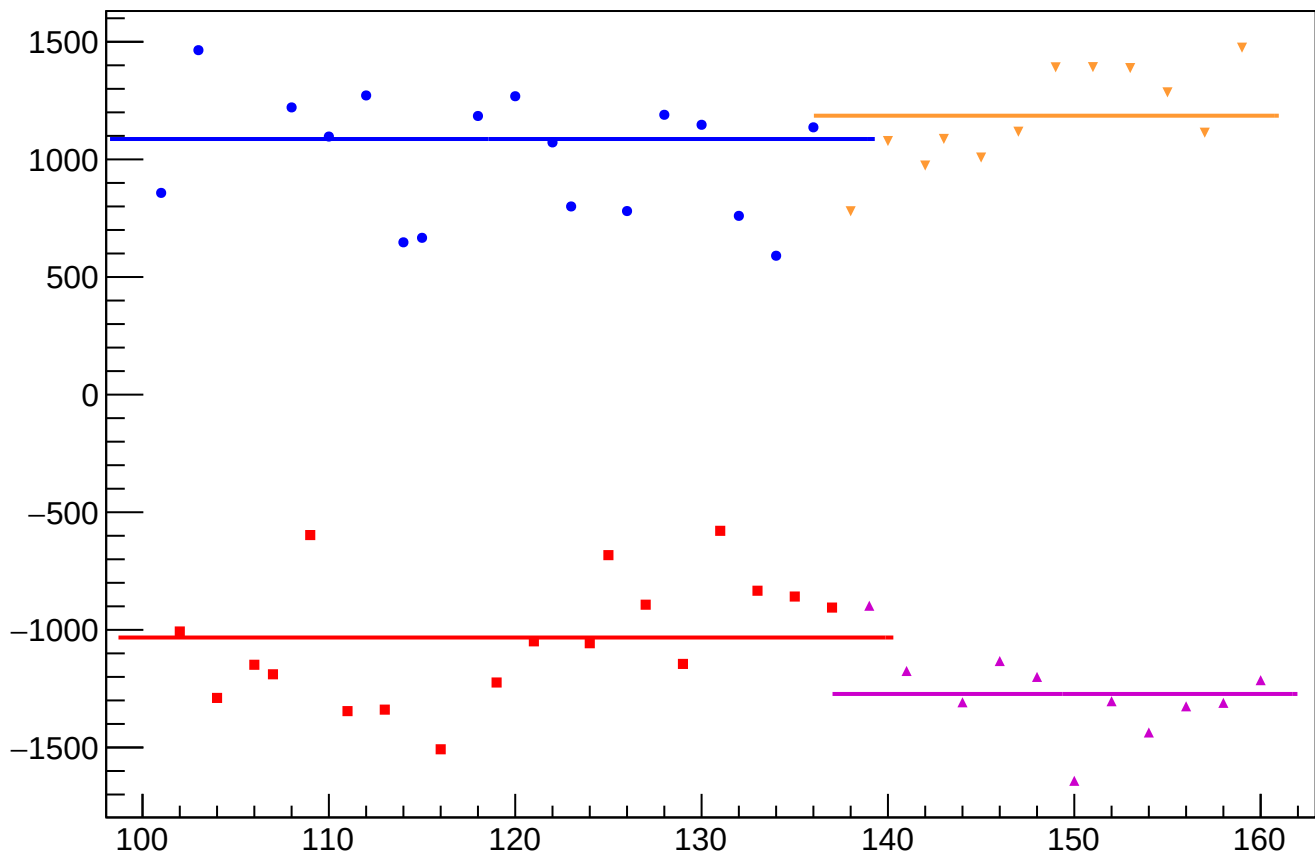
All: 1.944+/-0.000  $\chi^2/\text{NDF}$ : 19501749782083

dit\_11X12X\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 3.692 +/- 0.000  $\chi^2/\text{NDF}$ : 3355971788555014480502828790972416.0/16  
 Left Out: 2.846 +/- 0.000  $\chi^2/\text{NDF}$ : 575629369641168831235561749479424.0/11  
 Right Out: -3.803 +/- 0.000  $\chi^2/\text{NDF}$ : 2825063553426013260614294392799232.0/17  
 Left In: -2.762 +/- 0.000  $\chi^2/\text{NDF}$ : 191371961737300564635223748247552.0/10  
 All: -0.045 +/- 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

Left: -59.351+/-0.000  $\chi^2/\text{NDF}$ : 2849915835351934

Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

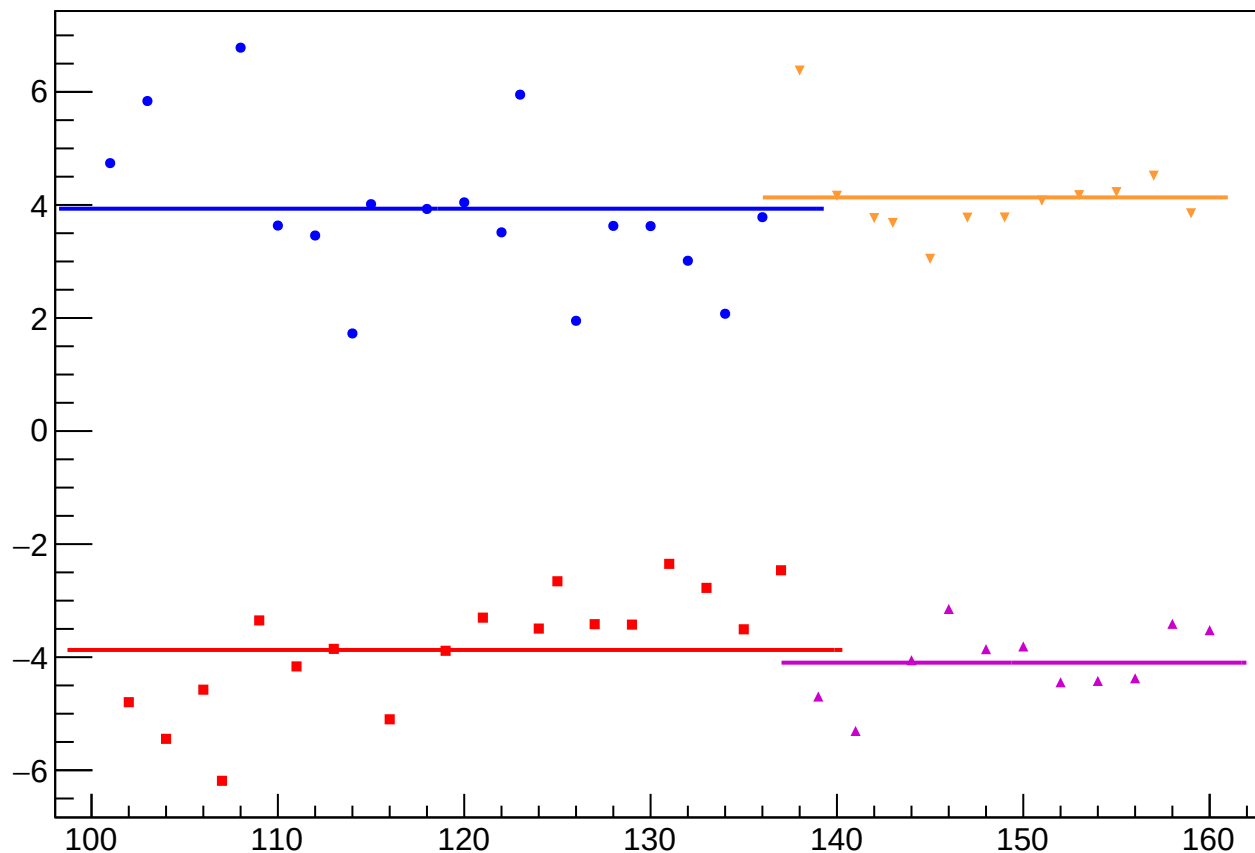
In: -266.178+/-0.000  $\chi^2/\text{NDF}$ : 2279519380852013

Out: 209.140+/-0.000  $\chi^2/\text{NDF}$ : 2054648458206867

All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

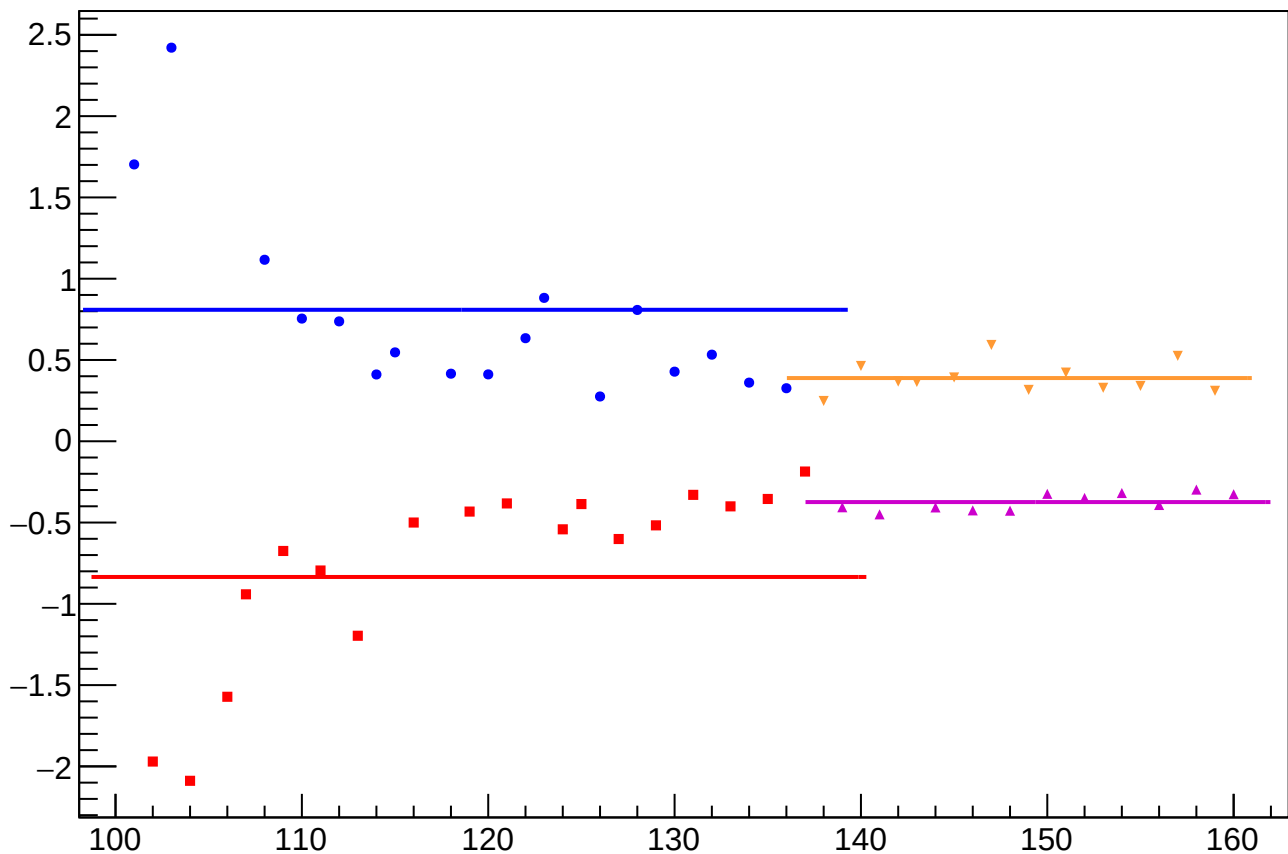


dit\_4aY\_coil3\_mean vs Slug, Sign Corrected



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

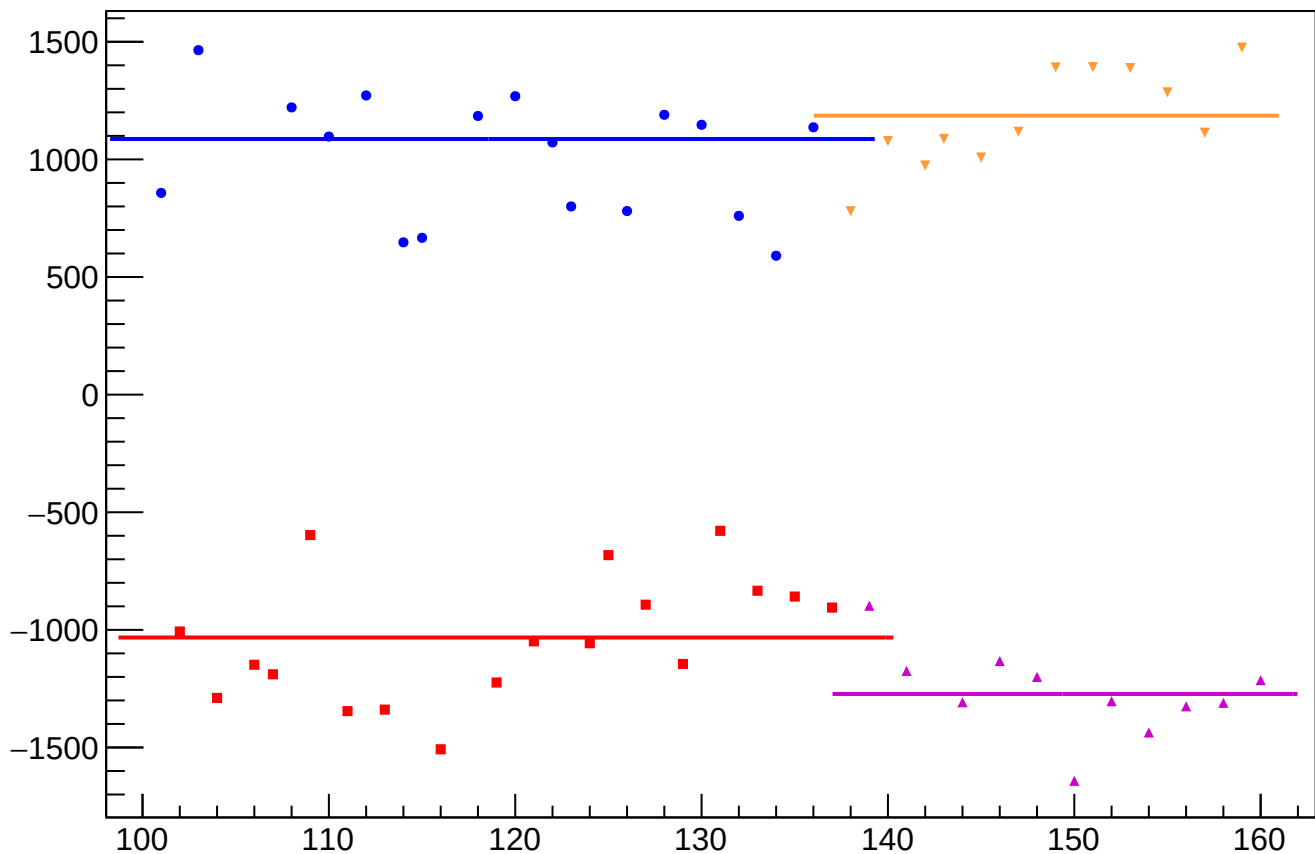
Left In: -0.374+/-0.000

$\chi^2/\text{NDF}$ : 2379461607366055456140660047872.0/10

All: -0.010+/-0.000

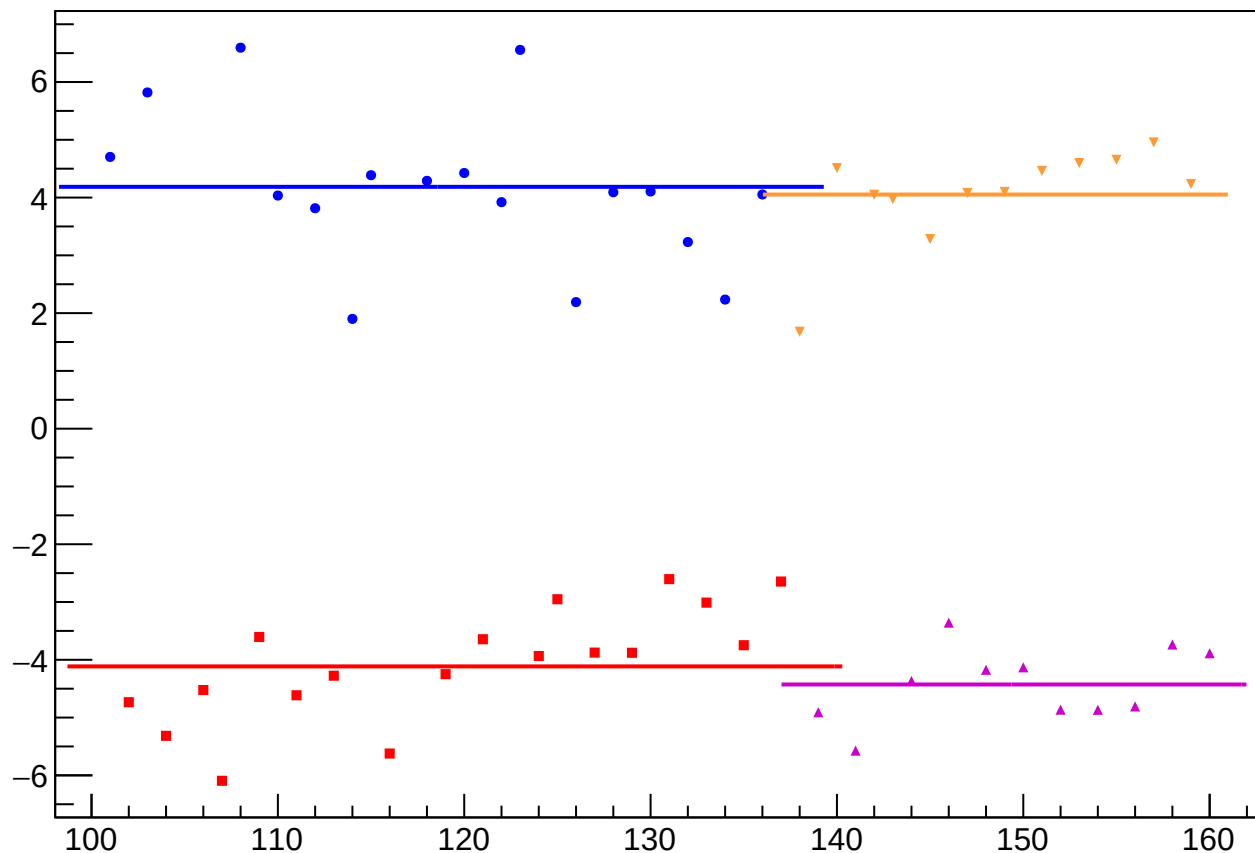
$\chi^2/\text{NDF}$ : 1749999072867

dit\_4aY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



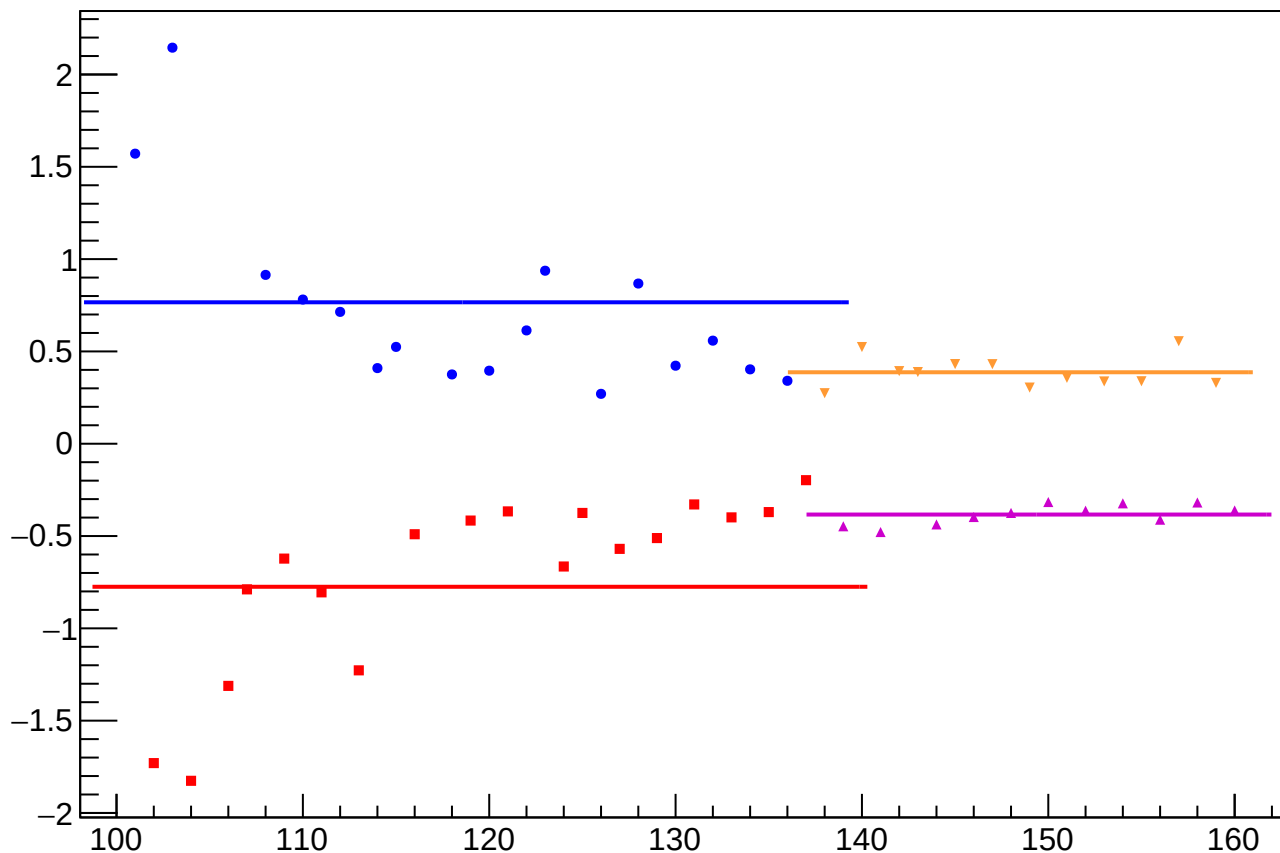
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 0.000  $\chi^2$ /NDF: 29878198288838193261445678233542459392.0/10  
 All: -28.738 $\pm$ 0.000  $\chi^2$ /NDF: 451779050699

dit\_4eY\_coil3\_mean vs Slug, Sign Corrected



|                           |                                                              |                       |                                          |
|---------------------------|--------------------------------------------------------------|-----------------------|------------------------------------------|
| Right In: 4.186+/-0.000   | $\chi^2/\text{NDF}$ : 774445398310846770950220892078080.0/16 | Left: -0.243+/-0.000  | $\chi^2/\text{NDF}$ : 34088413837184568  |
| Left Out: 4.052+/-0.000   | $\chi^2/\text{NDF}$ : 634098515145798855261076427112448.0/11 | Right: -0.026+/-0.000 | $\chi^2/\text{NDF}$ : 2561075955613807   |
| Right Out: -4.114+/-0.000 | $\chi^2/\text{NDF}$ : 573990867601521273238766982529024.0/17 | In: -0.753+/-0.000    | $\chi^2/\text{NDF}$ : 306467313798180493 |
| Left In: -4.427+/-0.000   | $\chi^2/\text{NDF}$ : 347229155799314771034943134892032.0/10 | Out: 0.457+/-0.000    | $\chi^2/\text{NDF}$ : 278996241429847262 |
|                           |                                                              | All: -0.149+/-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

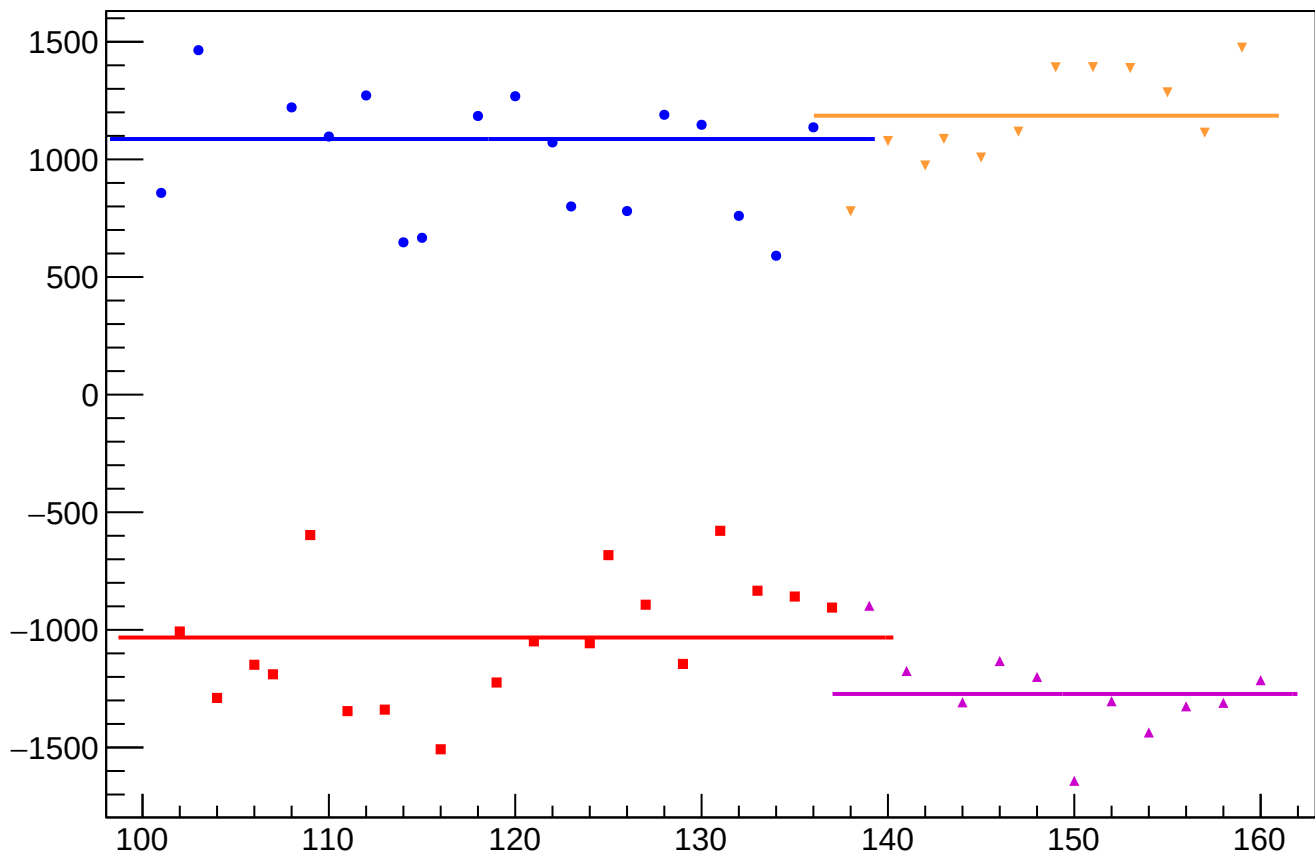
Right: -0.016 +/- 0.000  $\chi^2/\text{NDF}$ : 1223294668378502

In: 0.107 +/- 0.000  $\chi^2/\text{NDF}$ : 7334405883995383067

Out: -0.124 +/- 0.000  $\chi^2/\text{NDF}$ : 72885417762251347

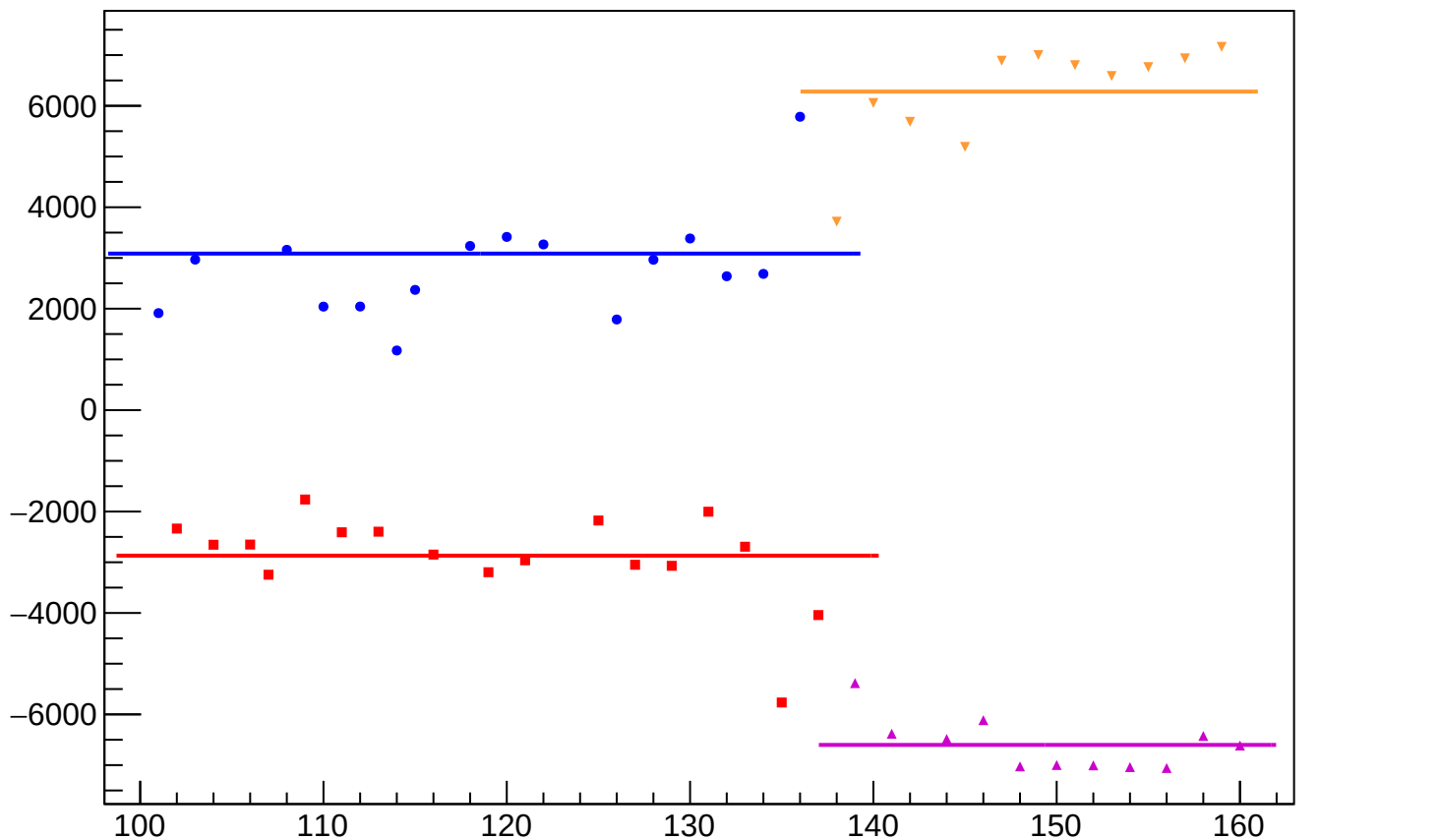
All: -0.009 +/- 0.000  $\chi^2/\text{NDF}$ : 1505760891115

dit\_4eY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



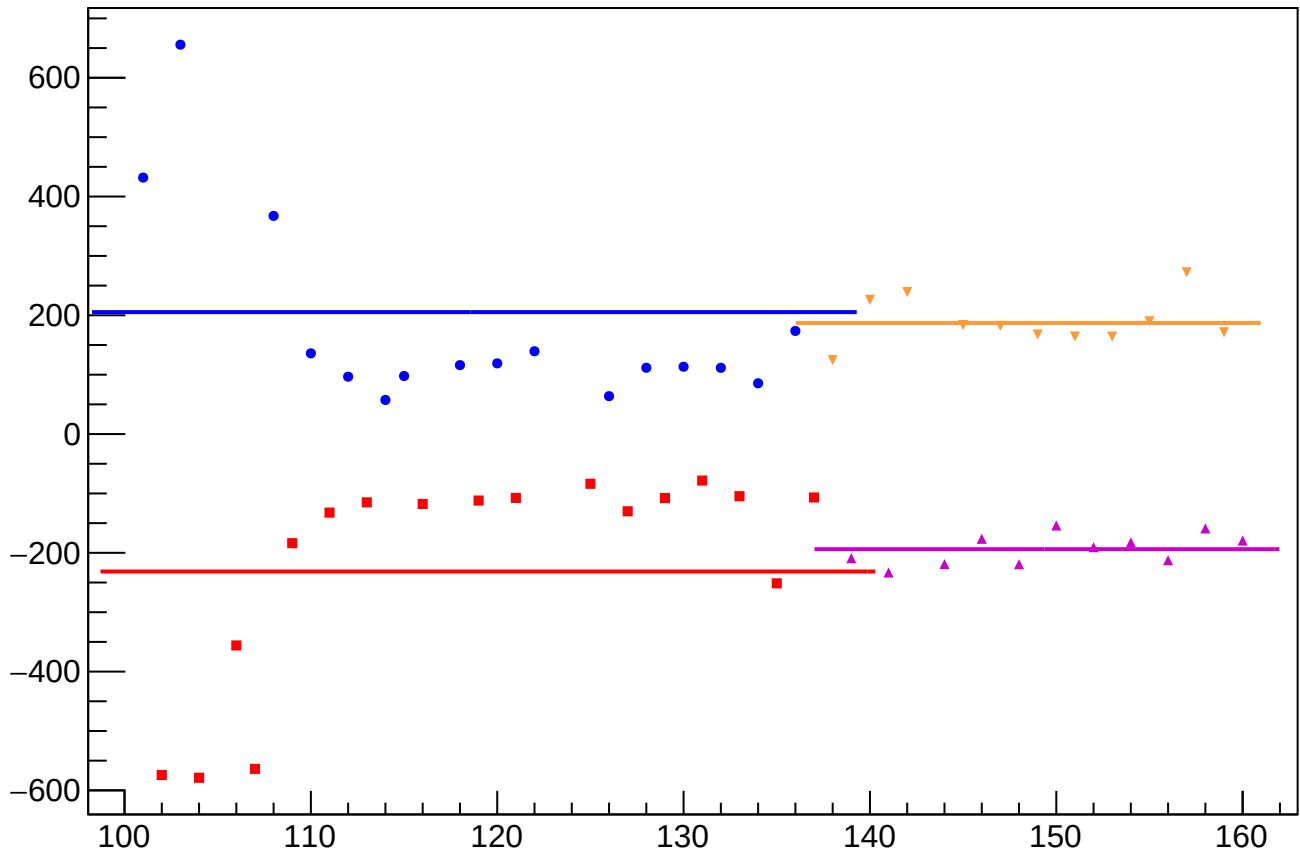
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 0.000  $\chi^2$ /NDF: 29878198288838193261445678233542459392.0/10  
 All: -28.738 $\pm$ 0.000  $\chi^2$ /NDF: 451779050699

dit\_usl\_coil3\_mean vs Slug, Sign Corrected



Right In: 3086.294+/-0.000  $\chi^2/\text{NDF}$ : 957872647656521012418983150086021709824.0/15  
 Left Out: 6281.054+/-0.000  $\chi^2/\text{NDF}$ : 840424812990698239150116446510170243072.0/10  
 Right Out: -2869.332+/-0.000  $\chi^2/\text{NDF}$ : 591237562305543847323062569482235936768.0/16  
 Left In: -6601.570+/-0.000  $\chi^2/\text{NDF}$ : 224954235143433170053737939603445252096.0/10  
 All: -237.674+/-0.000  $\chi^2/\text{NDF}$ : 88658508378

# dit\_usl\_coil3\_err\_mean vs Slug, Sign Corrected



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

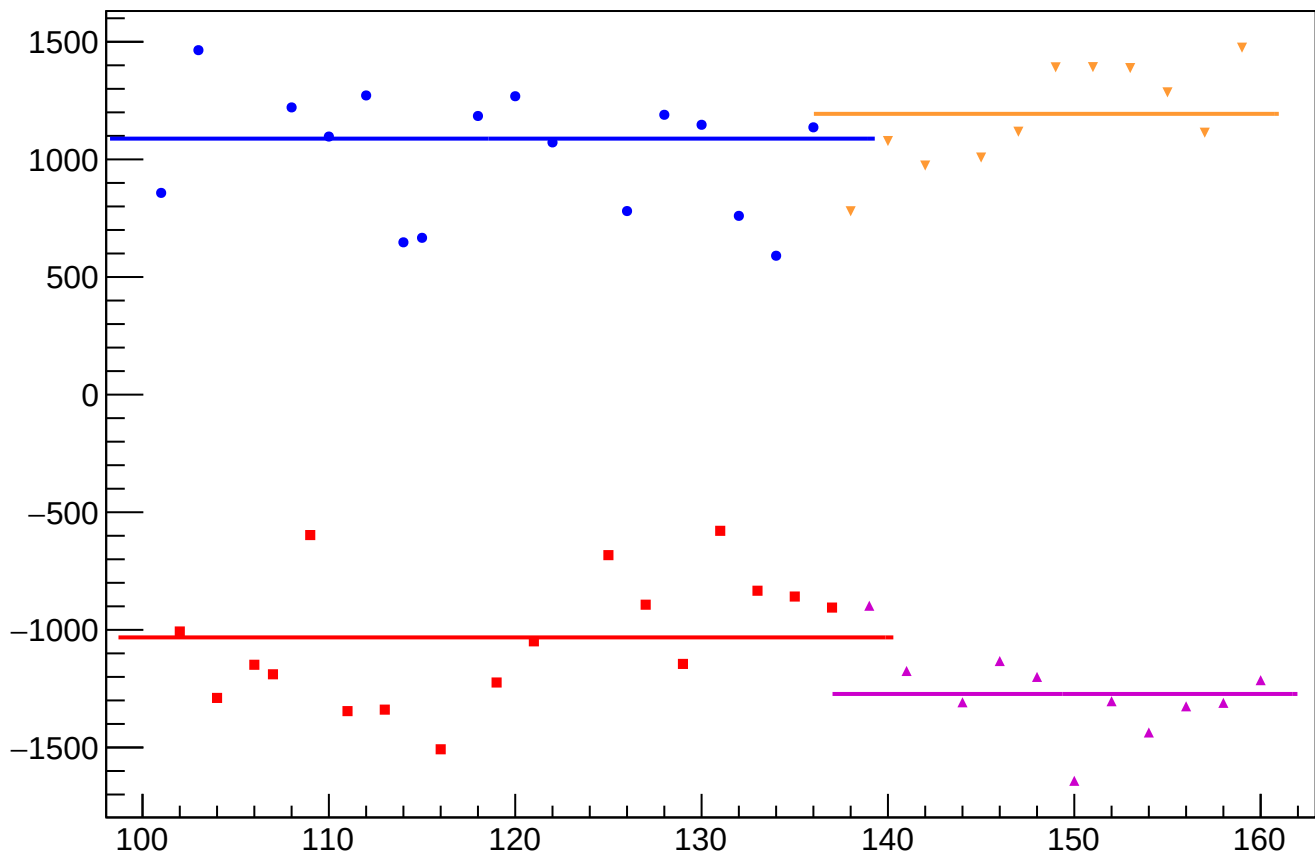
Left In: -193.848 +/- 0.000

$\chi^2/\text{NDF}$ : 586629985939156798428558842319077376.0/10

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

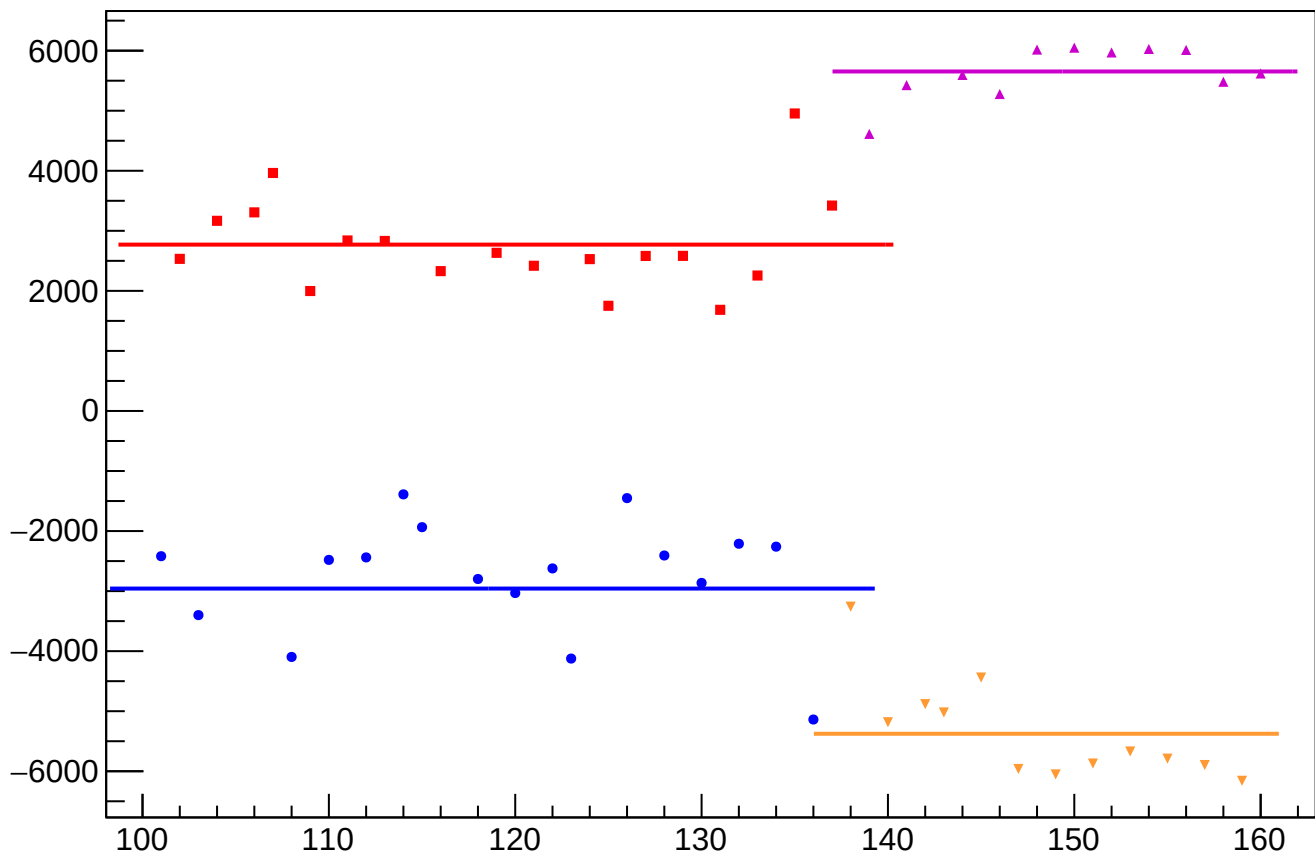


dit\_usl\_coil3\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------------------|----------------------------------------|
| Right In: 1088.357+/-0.000   | $\chi^2/\text{NDF}$ : 34282153777351983771685586546357960704.0/15 | Left: -102.624+/-0.000             | $\chi^2/\text{NDF}$ : 275853676772931  |
| Left Out: 1193.682+/-0.000   | $\chi^2/\text{NDF}$ : 36852151008799488295542377563587346432.0/10 | Right: 19.765+/-0.000              | $\chi^2/\text{NDF}$ : 1645330396991404 |
| Right Out: -1032.058+/-0.000 | $\chi^2/\text{NDF}$ : 47606445983736508238206731798200713216.0/16 | In: -268.806+/-0.000               | $\chi^2/\text{NDF}$ : 2274961230405456 |
| Left In: -1272.495+/-0.000   | $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10 | Out: 182.506+/-0.000               | $\chi^2/\text{NDF}$ : 1979475649383710 |
|                              | All: -48.852+/-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

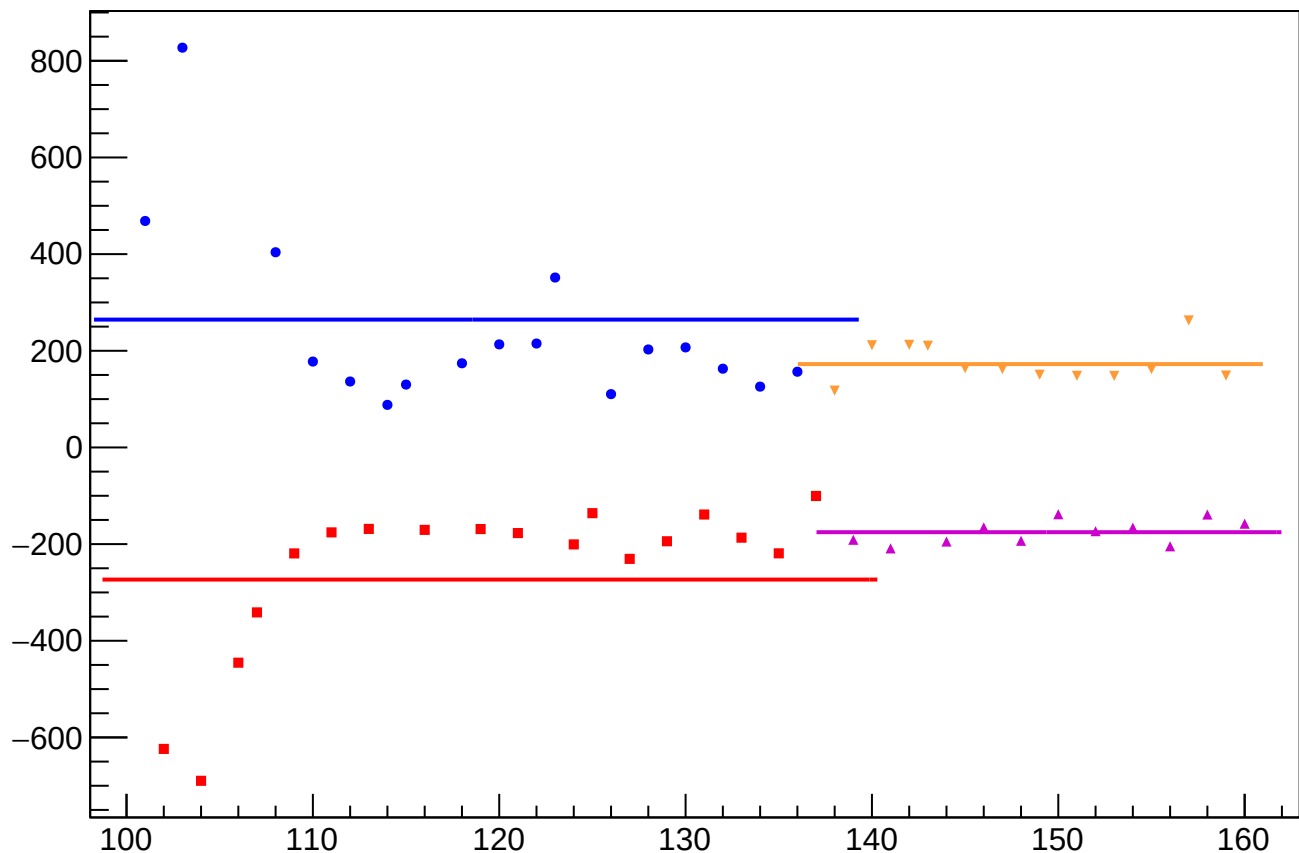
Right: -50.973+/-0.000  $\chi^2/\text{NDF}$ : 127133701983019

In: 1980.543+/-0.000  $\chi^2/\text{NDF}$ : 3038851116540527

Out: -1789.270+/-0.000  $\chi^2/\text{NDF}$ : 27616678894170

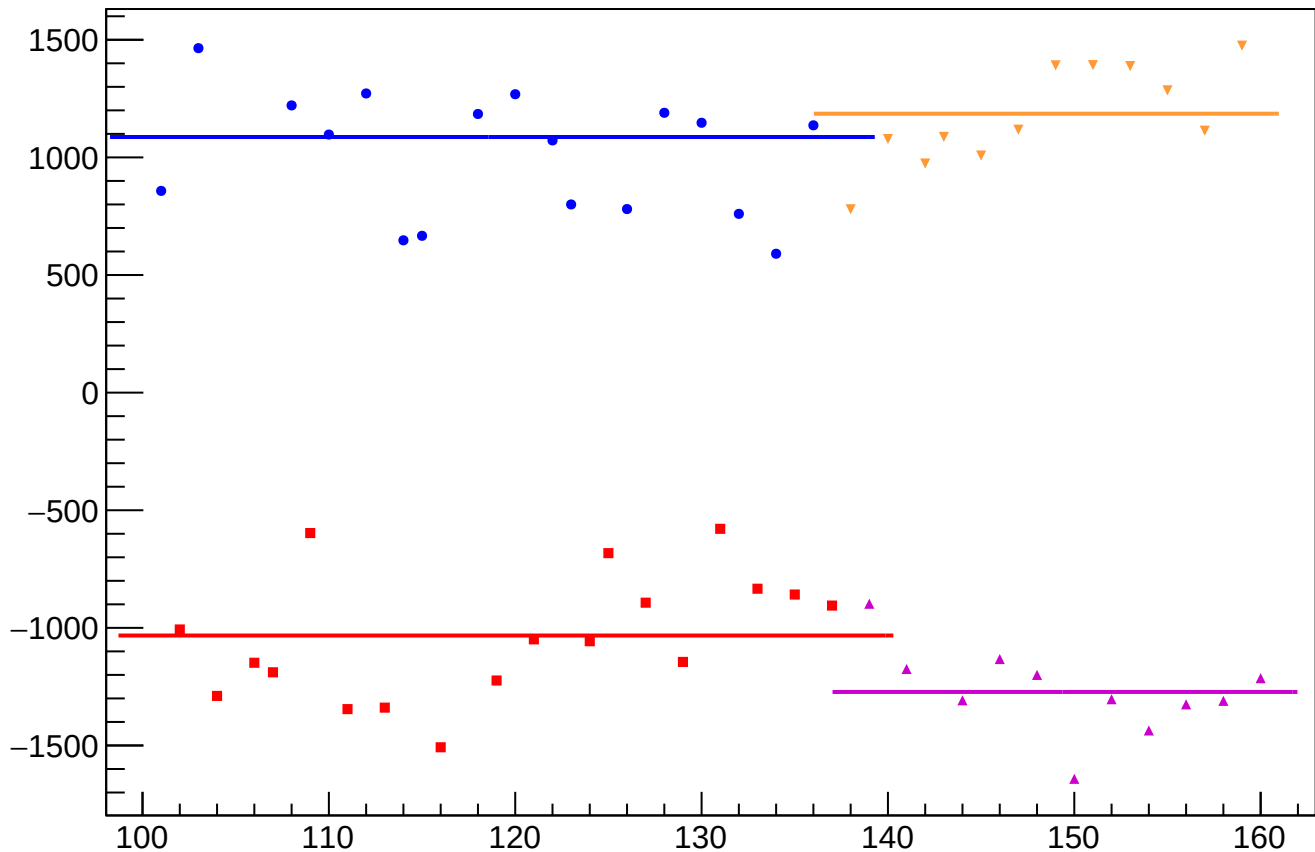
All: 97.376+/-0.000  $\chi^2/\text{NDF}$ : 6955557422403

dit\_usr\_coil3\_err\_mean vs Slug, Sign Corrected



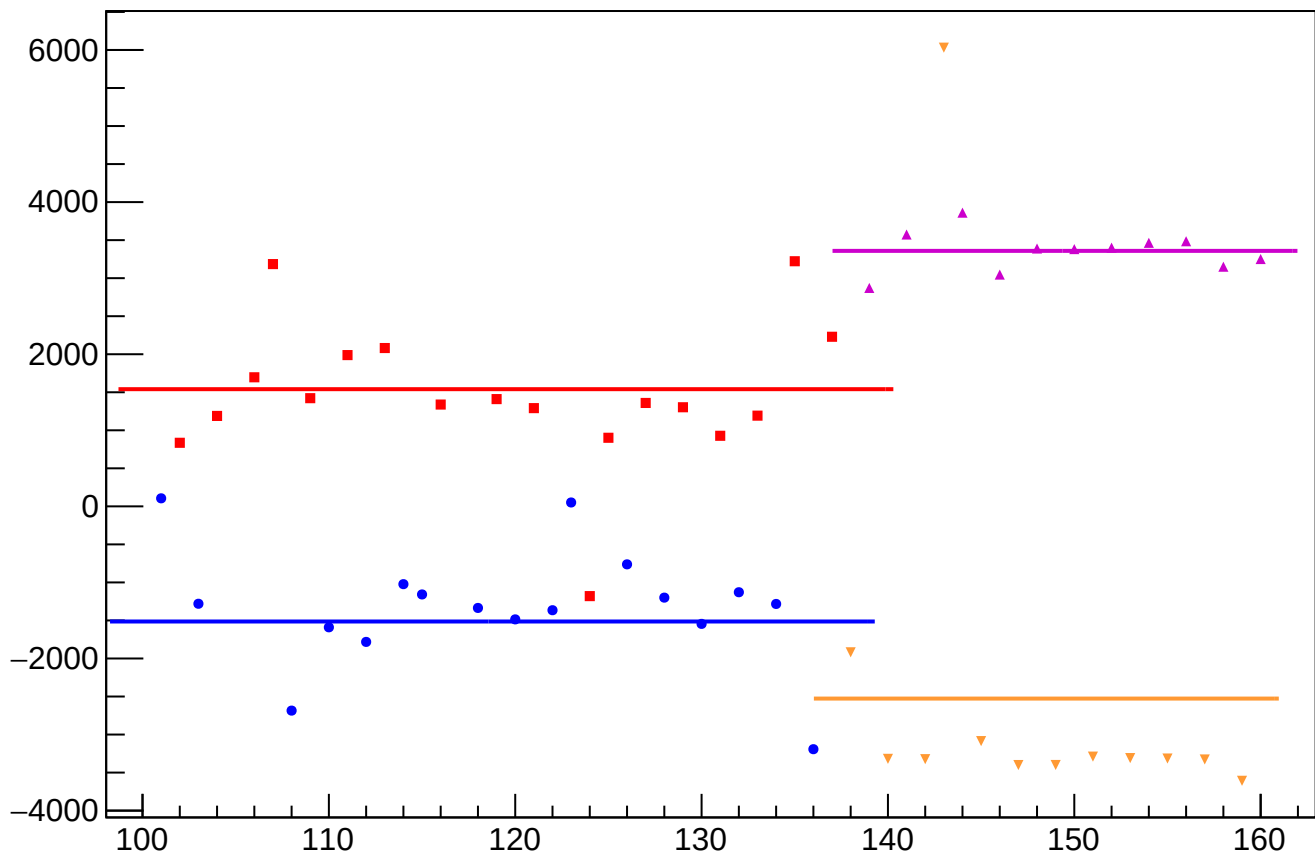
Right In: 264.557+/-0.000  $\chi^2/\text{NDF}$ : 27392235444982313348552279916984401920.0/16  
 Left Out: 172.461+/-0.000  $\chi^2/\text{NDF}$ : 1337859782705403198008239582328389632.0/11  
 Right Out: -273.375+/-0.000  $\chi^2/\text{NDF}$ : 22103440288407609769259099140296540160.0/17  
 Left In: -175.349+/-0.000  $\chi^2/\text{NDF}$ : 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 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\_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

Left: 454.239 +/- 0.000  $\chi^2/\text{NDF}$ : 2146217616354959

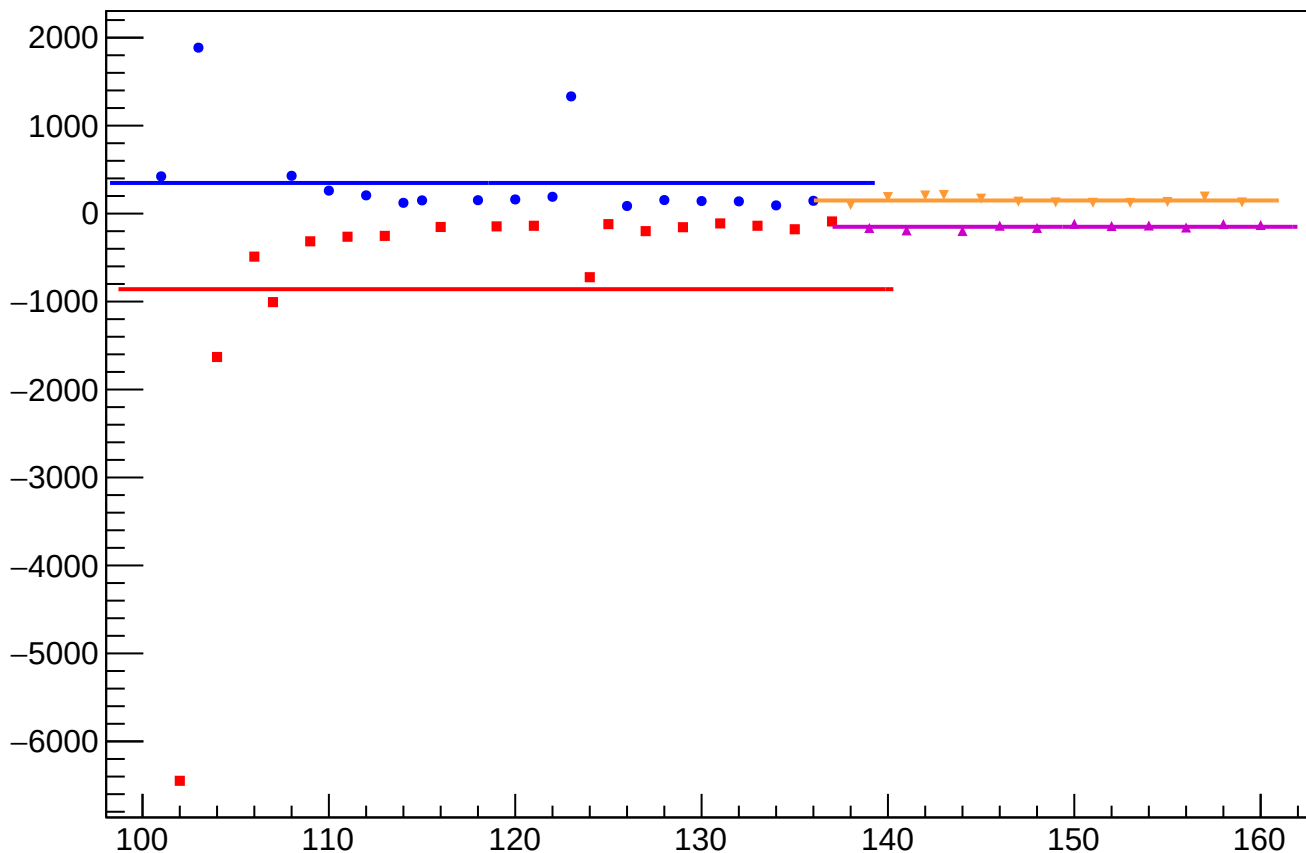
Right: 36.245 +/- 0.000  $\chi^2/\text{NDF}$ : 4245699622257131

In: 1280.444 +/- 0.000  $\chi^2/\text{NDF}$ : 100231179905351

Out: -736.148 +/- 0.000  $\chi^2/\text{NDF}$ : 125190807044602

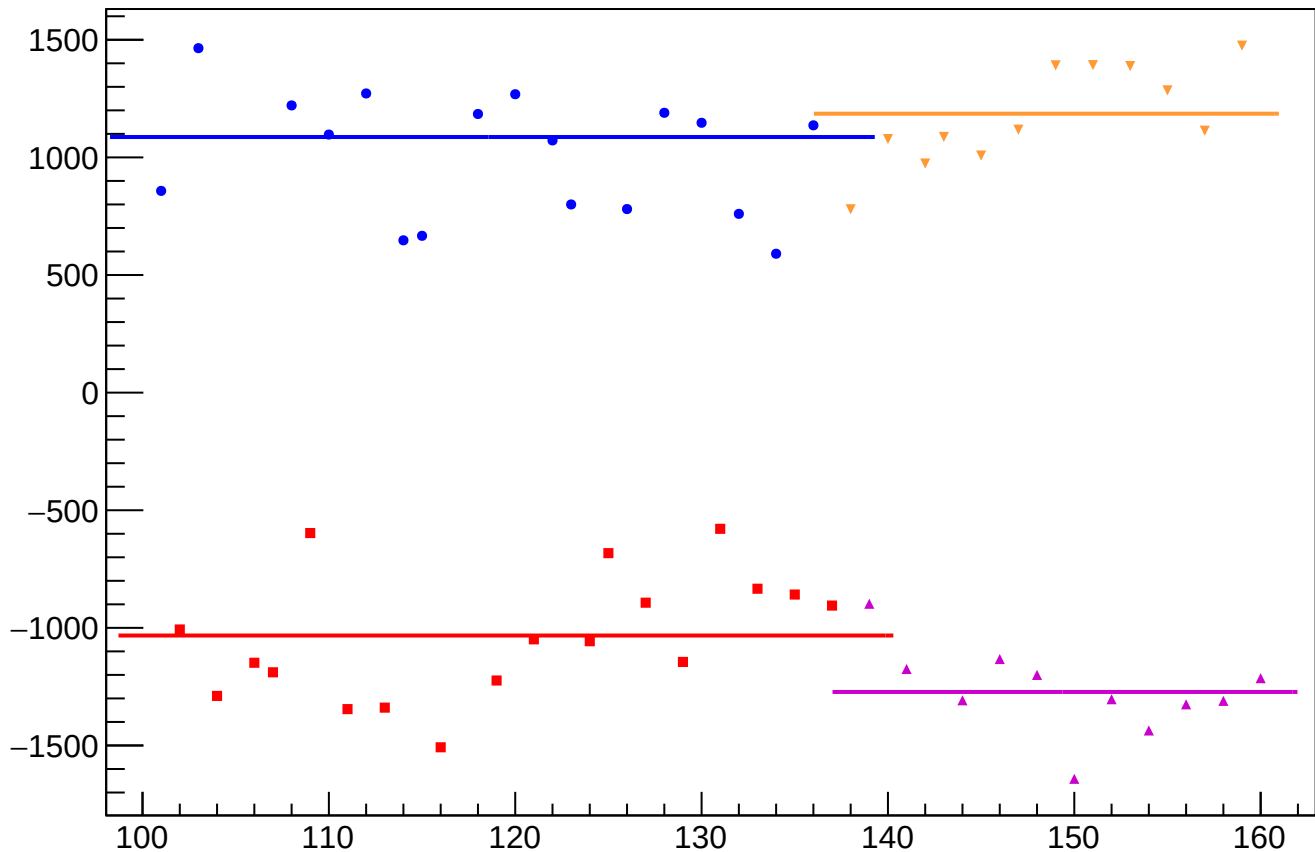
All: 273.078 +/- 0.000  $\chi^2/\text{NDF}$ : 258473599670

dit\_atl1\_coil3\_err\_mean vs Slug, Sign Corrected



Right In:  $348.444 \pm 0.000$   $\chi^2/\text{NDF}: 164421878122610355371654497383202422784.0/16$   
 Left Out:  $149.175 \pm 0.000$   $\chi^2/\text{NDF}: 1154008557616927305320355624438988800.0/11$   
 Right Out:  $-859.360 \pm 0.000$   $\chi^2/\text{NDF}: 2089894584846900651264019930845330538496.0/17$   
 Left In:  $-149.996 \pm 0.000$   $\chi^2/\text{NDF}: 634211210391111193289402478351089664.0/10$   
 All:  $-115.955 \pm 0.000$   $\chi^2/\text{NDF}: 28659014260$

dit\_atl1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 1185.823+/-0.000

$\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11

Right Out: -1032.544+/-0.000

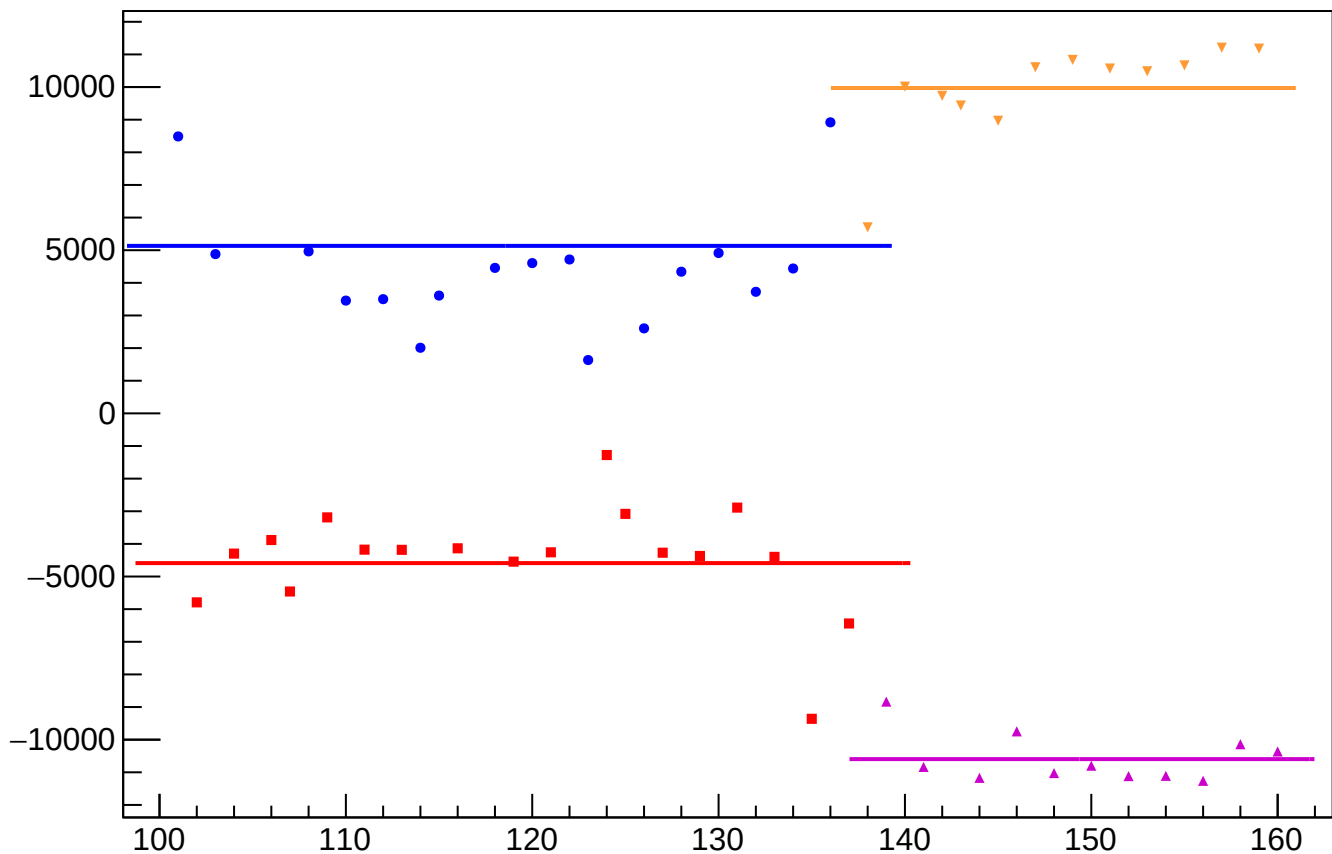
$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

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

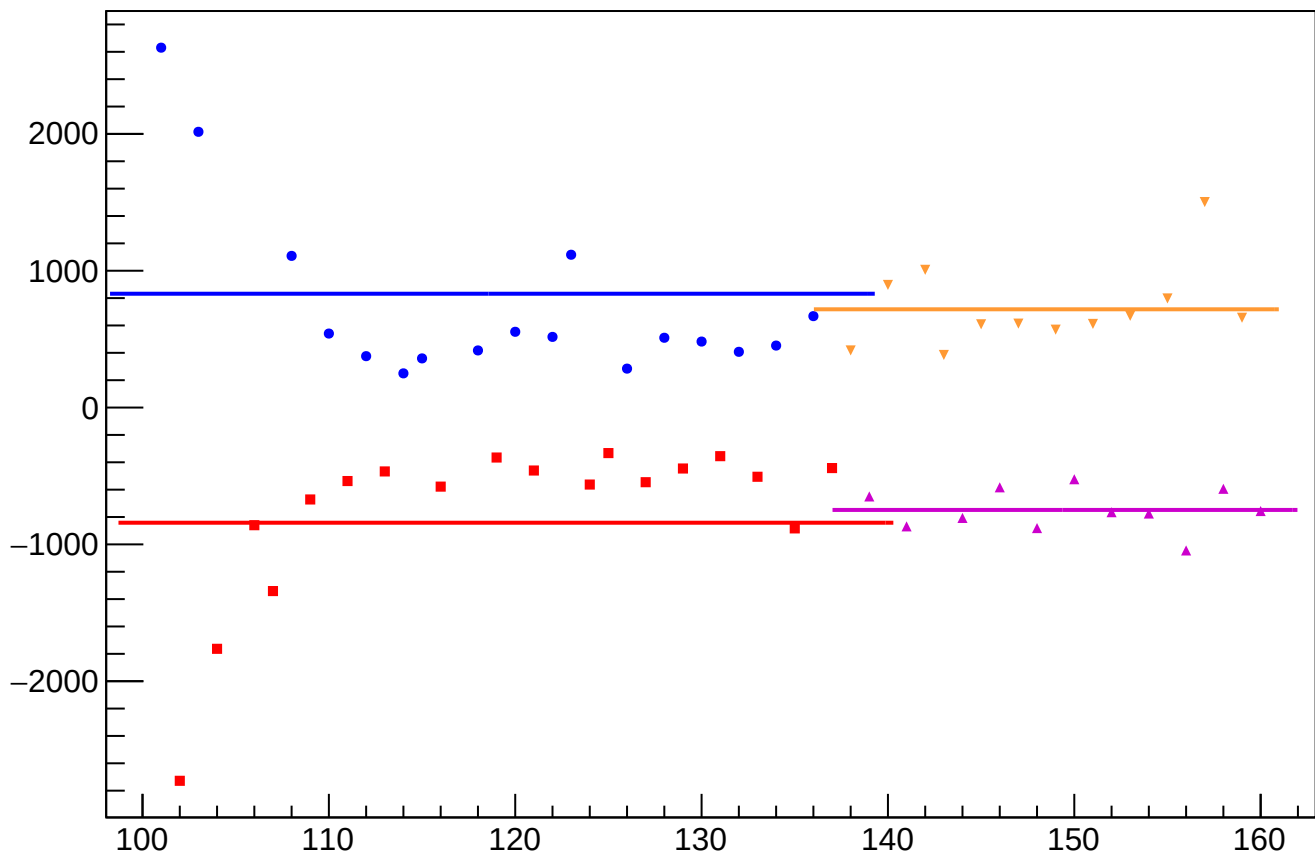
# dit\_atl2\_coil3\_mean vs Slug, Sign Corrected



|                              |                                                                     |                                   |                                       |
|------------------------------|---------------------------------------------------------------------|-----------------------------------|---------------------------------------|
| Right In: 5133.097+/-0.000   | $\chi^2/\text{NDF}$ : 2783606731789543492542627200033364115456.0/16 | Left: -446.372+/-0.000            | $\chi^2/\text{NDF}$ : 197156643284722 |
| Left Out: 9970.965+/-0.000   | $\chi^2/\text{NDF}$ : 1934561351581385388949199210125109231616.0/11 | Right: 199.820+/-0.000            | $\chi^2/\text{NDF}$ : 378302871911118 |
| Right Out: -4588.565+/-0.000 | $\chi^2/\text{NDF}$ : 1762679658137517030098233744958039261184.0/17 | In: -3886.573+/-0.000             | $\chi^2/\text{NDF}$ : 101709207008869 |
| Left In: -10595.738+/-0.000  | $\chi^2/\text{NDF}$ : 468576856430233997179123685345978220544.0/10  | Out: 3560.827+/-0.000             | $\chi^2/\text{NDF}$ : 885329319879780 |
|                              | All: -166.309+/-0.000                                               | $\chi^2/\text{NDF}$ : 23532028445 |                                       |

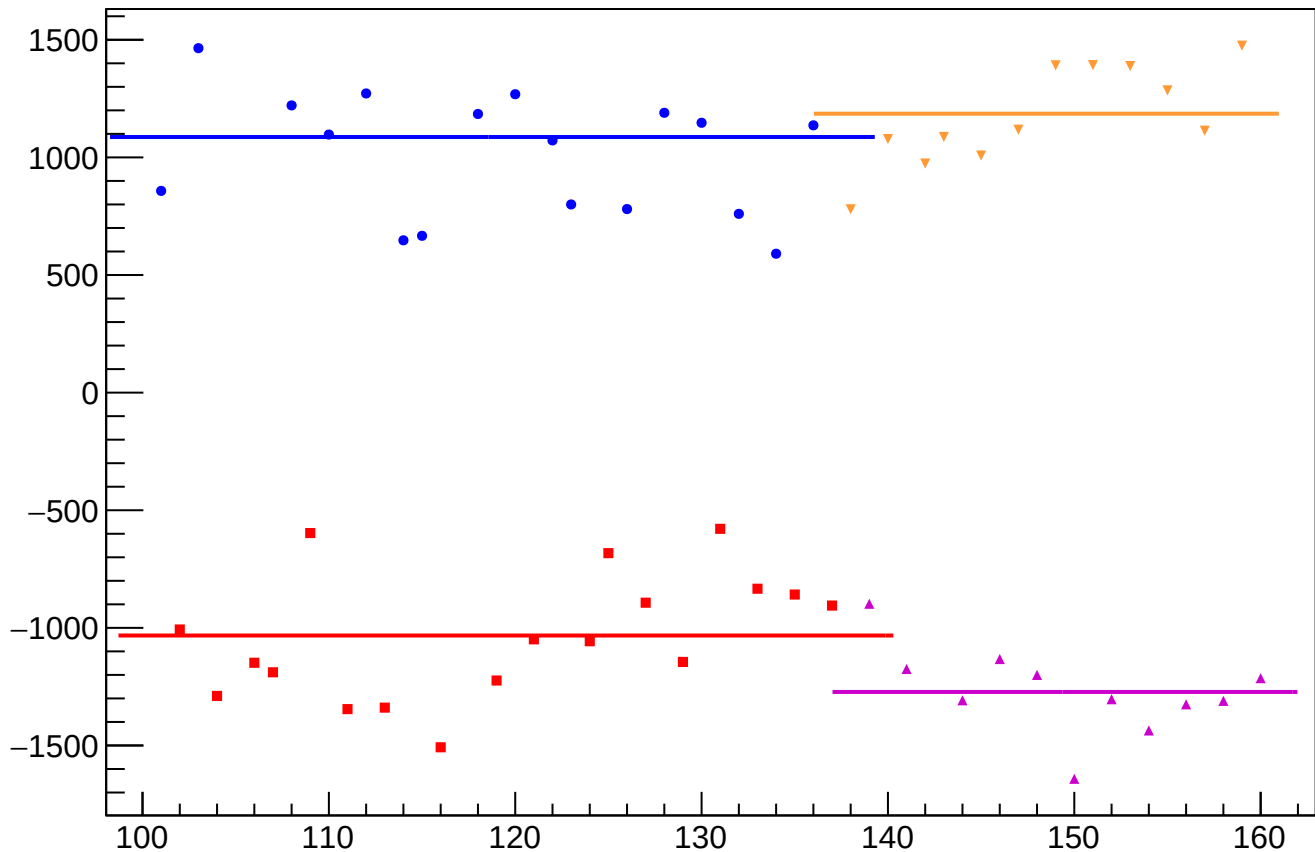


dit\_atl2\_coil3\_err\_mean vs Slug, Sign Corrected



Right In:  $831.957 \pm 0.000$   $\chi^2/\text{NDF}: 349451729062960856481628082238677581824.0/16$   
 Left Out:  $718.149 \pm 0.000$   $\chi^2/\text{NDF}: 71937620206312488089989876430797799424.0/11$   
 Right Out:  $-841.697 \pm 0.000$   $\chi^2/\text{NDF}: 327194571788790762884924618221350289408.0/17$   
 Left In:  $-748.248 \pm 0.000$   $\chi^2/\text{NDF}: 19684275040316832189212720213180547072.0/10$   
 All:  $-21.456 \pm 0.000$   $\chi^2/\text{NDF}: 274484058826$

dit\_atl2\_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

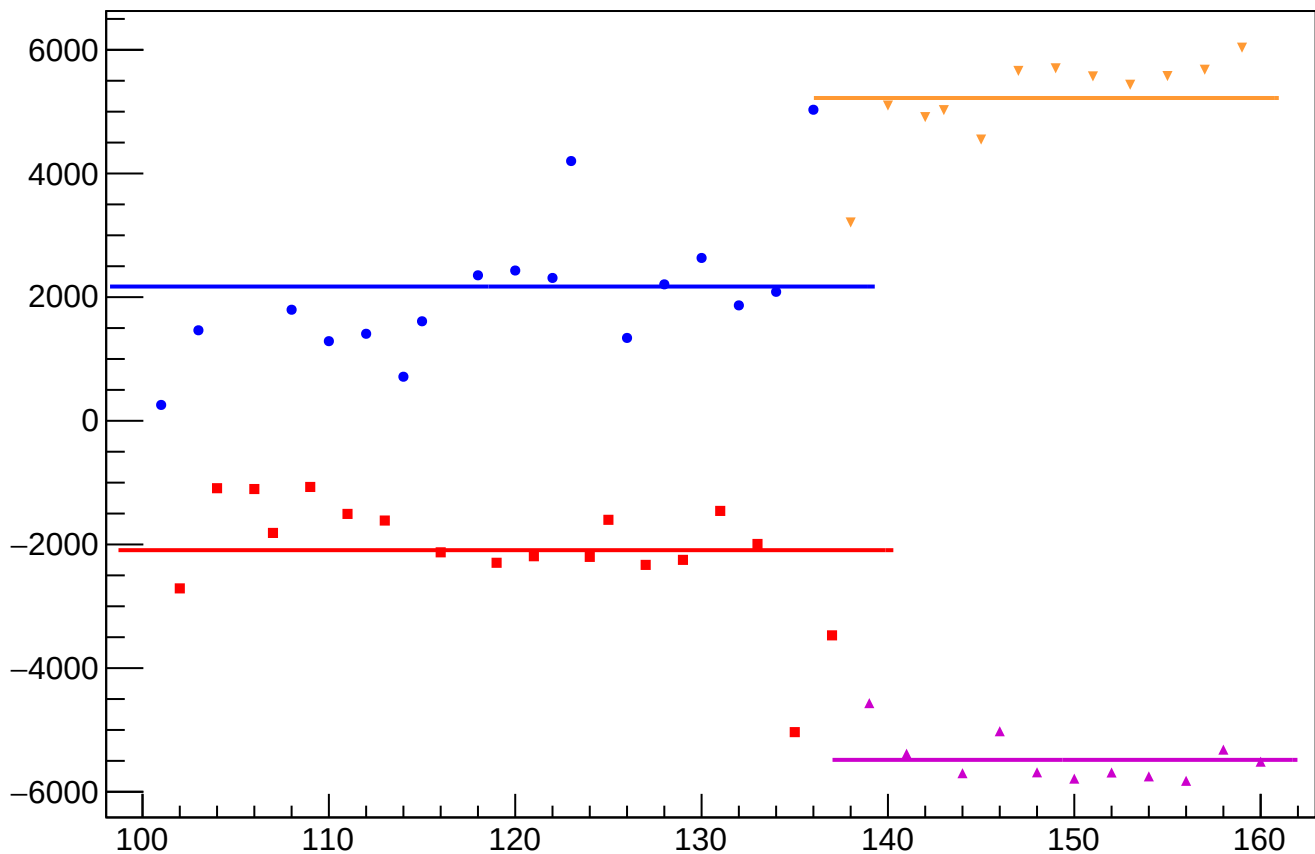
Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

In: -266.178+/-0.000  $\chi^2/\text{NDF}$ : 2279519380852013

Out: 209.140+/-0.000  $\chi^2/\text{NDF}$ : 2054648458206867

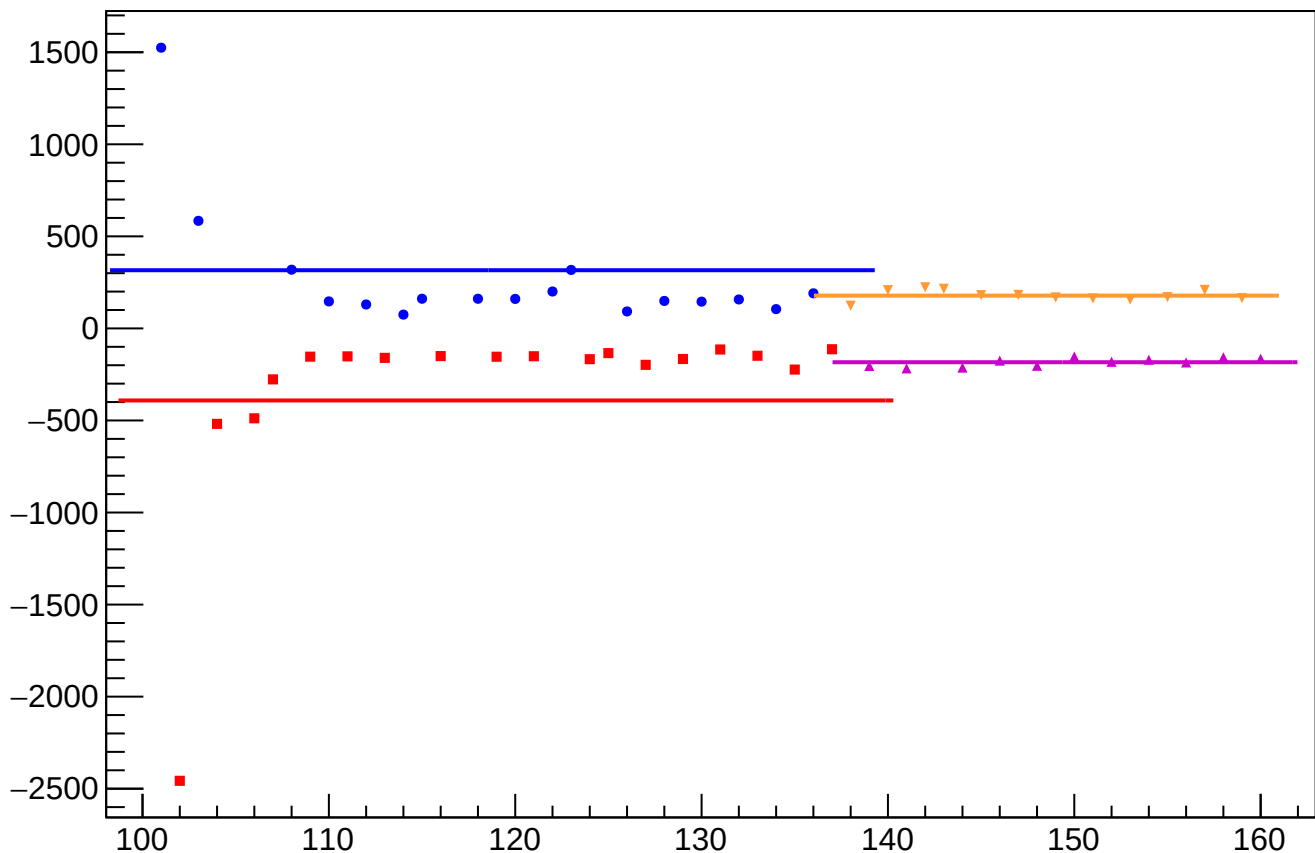
All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_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

Left: -5.166+/-0.000  $\chi^2/\text{NDF}$ : 61346427687473647

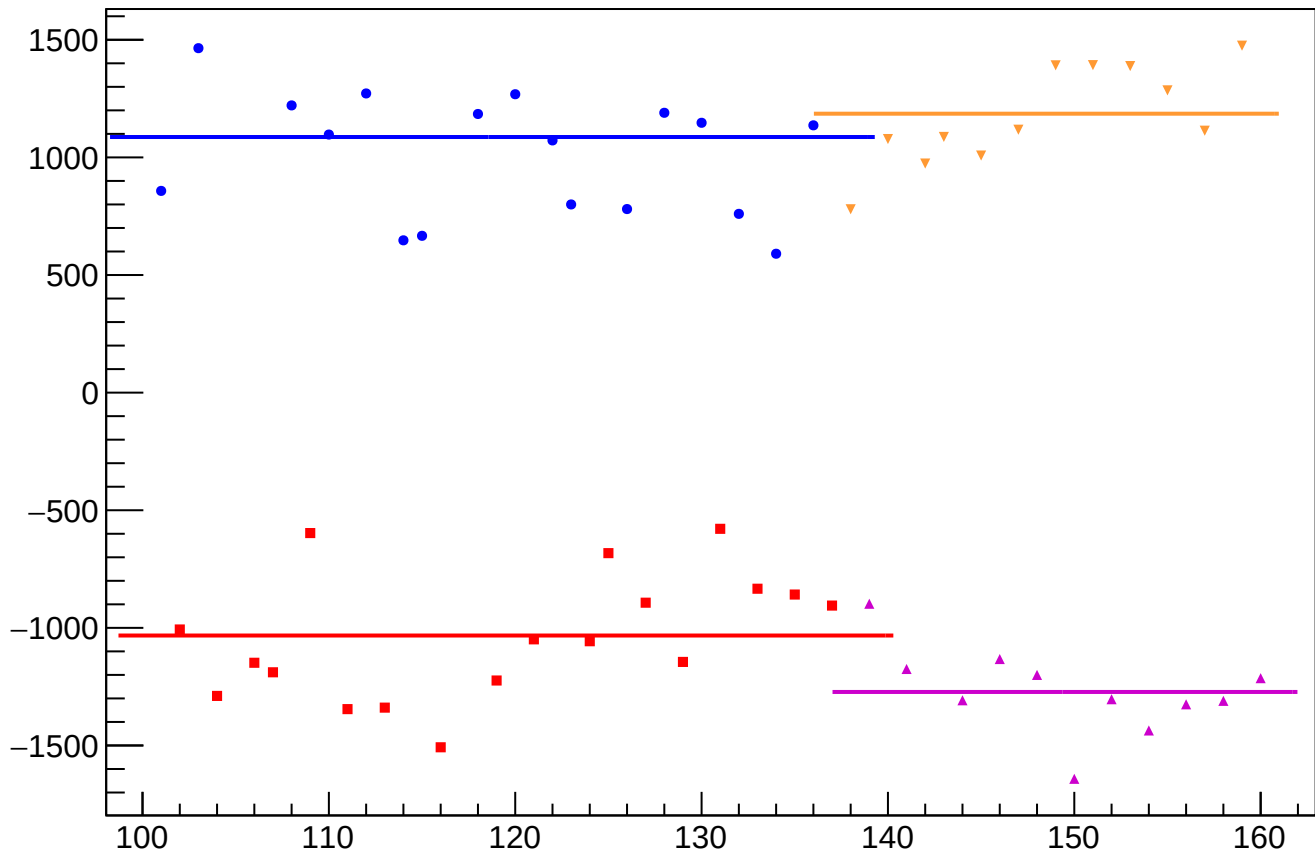
Right: -42.897+/-0.000  $\chi^2/\text{NDF}$ : 560008515925605

In: 29.447+/-0.000  $\chi^2/\text{NDF}$ : 205049108626459629

Out: -72.578+/-0.000  $\chi^2/\text{NDF}$ : 4089822569698594

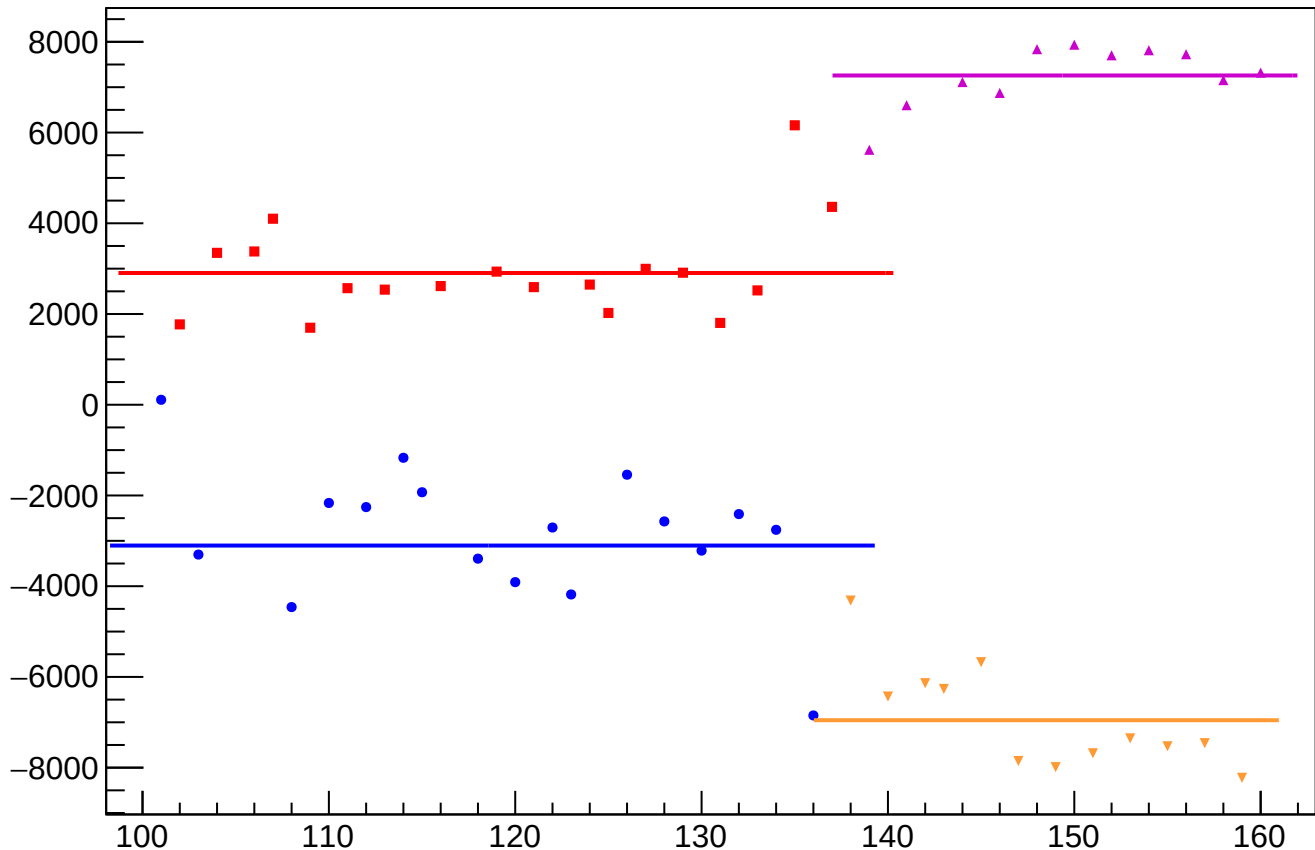
All: -21.518+/-0.000  $\chi^2/\text{NDF}$ : 622491467399

dit\_atr1\_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\_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

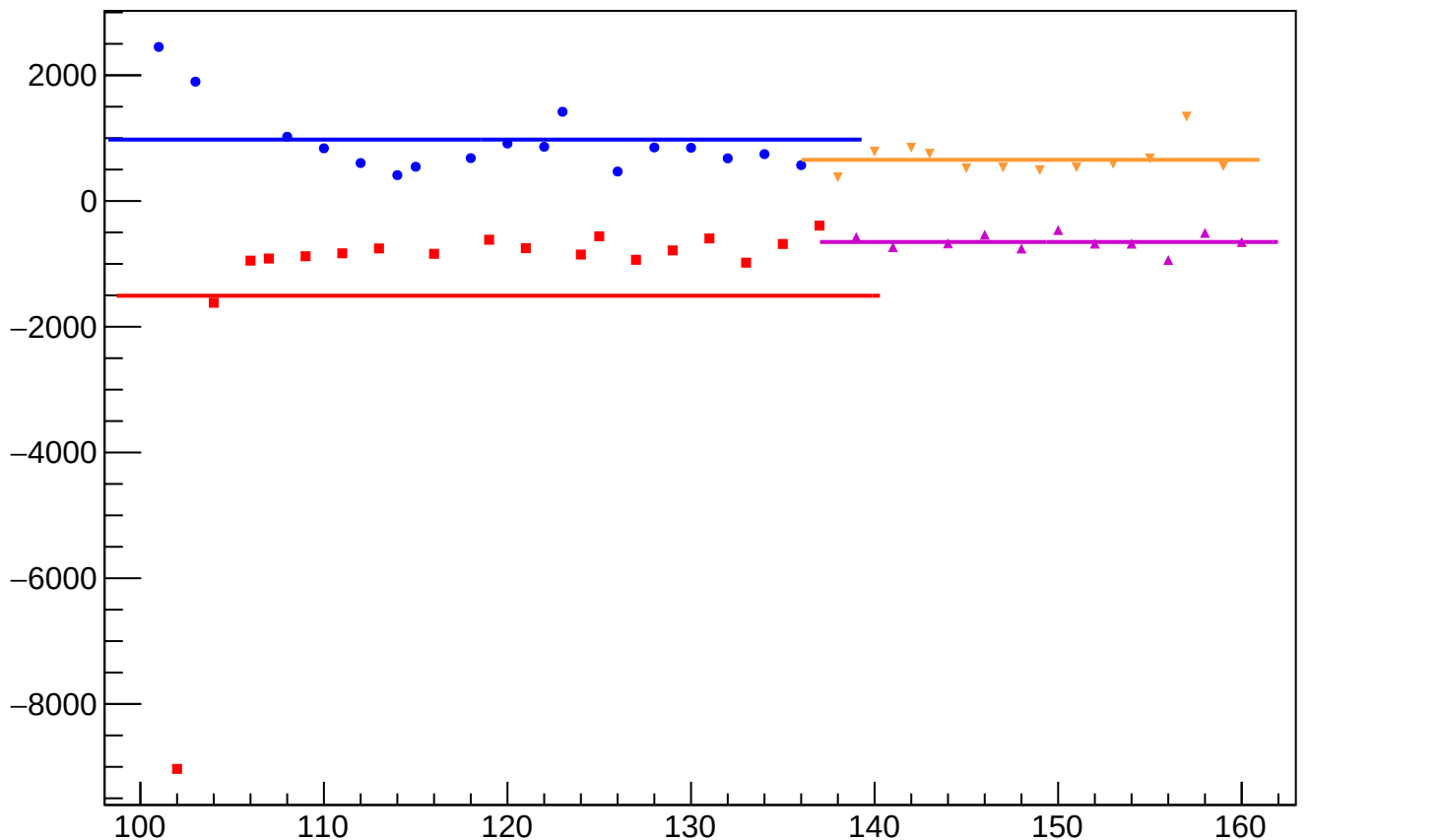
Right: -55.222+/-0.000  $\chi^2/\text{NDF}$ : 157960799748742

In: 2838.170+/-0.000  $\chi^2/\text{NDF}$ : 4535502787574974

Out: -2613.942+/-0.000  $\chi^2/\text{NDF}$ : 40895790477576

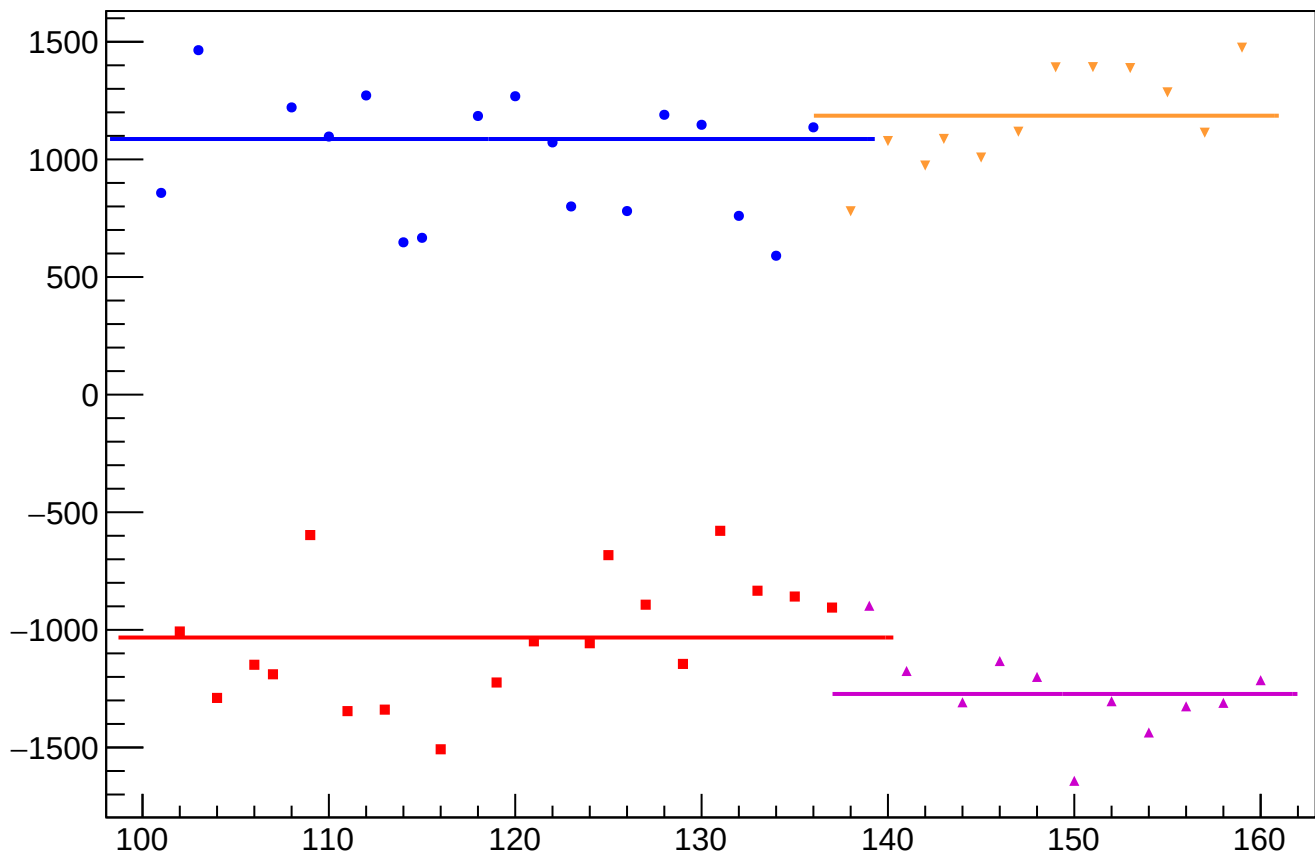
All: 114.630+/-0.000  $\chi^2/\text{NDF}$ : 11041021813

dit\_atr2\_coil3\_err\_mean vs Slug, Sign Corrected



Left: -6.696+/-0.000  $\chi^2/\text{NDF}$ : 85279987998266189  
 Right In: 977.095+/-0.000  $\chi^2/\text{NDF}$ : 229572106069348964280530708212477853696.0/16  
 Right: -283.232+/-0.000  $\chi^2/\text{NDF}$ : 60231323256149  
 Left Out: 655.166+/-0.000  $\chi^2/\text{NDF}$ : 51874874251518032023744139034586251264.0/11  
 In: 43.161+/-0.000  $\chi^2/\text{NDF}$ : 129993866105708673  
 Right Out: -1506.543+/-0.000  $\chi^2/\text{NDF}$ : 3621204096431683433019783695973291655168.0/17  
 Out: -296.572+/-0.000  $\chi^2/\text{NDF}$ : 554323767711363  
 Left In: -651.533+/-0.000  $\chi^2/\text{NDF}$ : 14771751730893507411820547842989096960.0/10  
 All: -126.548+/-0.000  $\chi^2/\text{NDF}$ : 69369825406

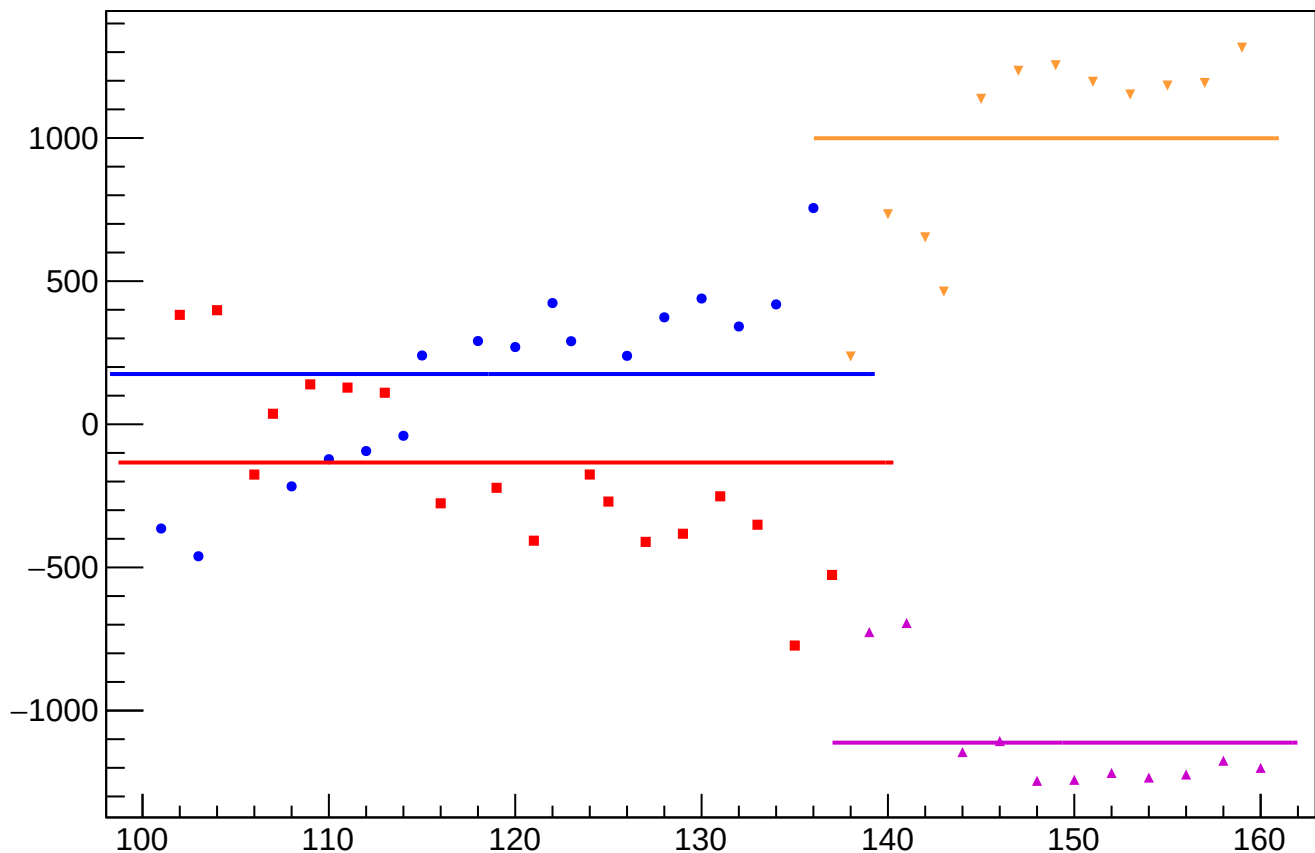
dit\_atr2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

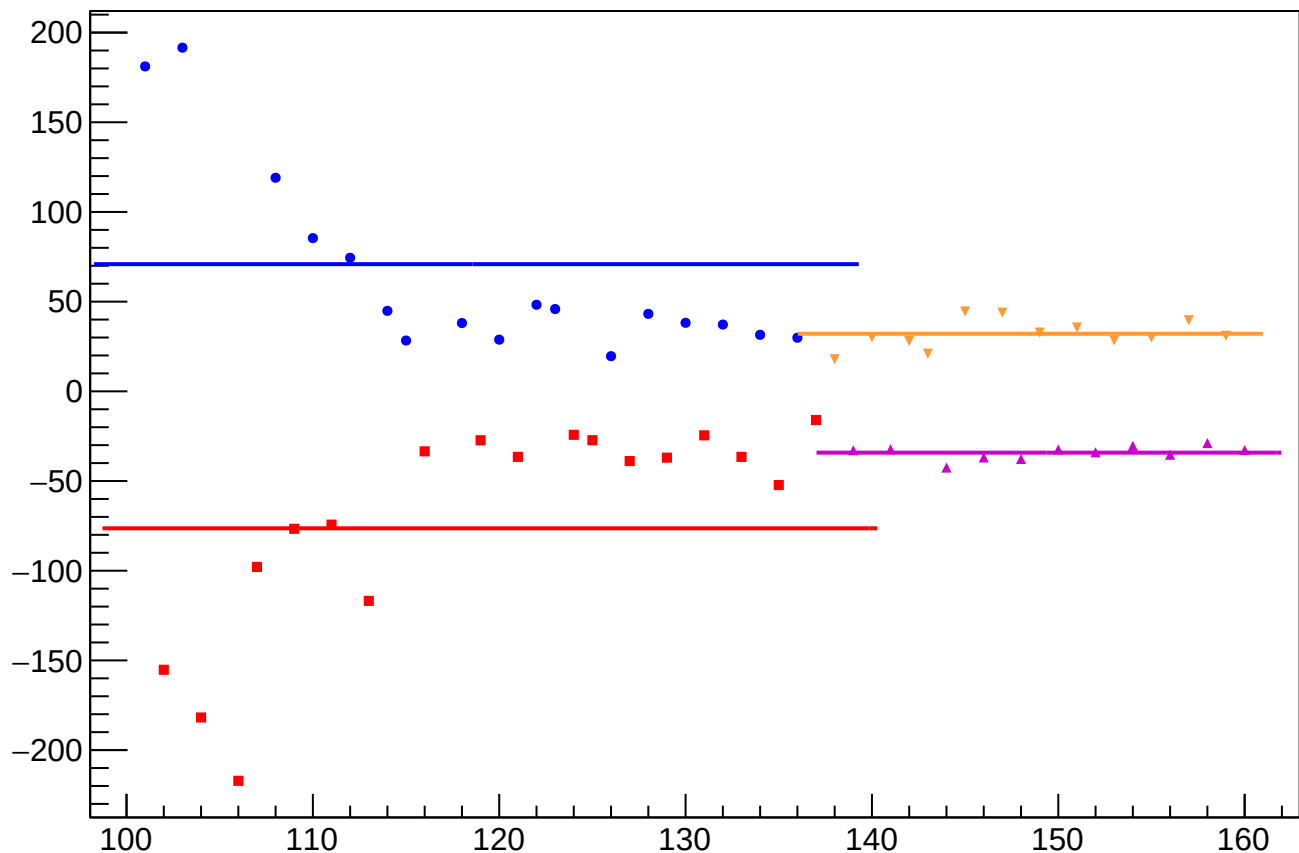
Right: 18.704 +/- 0.000  $\chi^2/\text{NDF}$ : 2053948365154779

In: -562.841 +/- 0.000  $\chi^2/\text{NDF}$ : 7898474617781587

Out: 500.465 +/- 0.000  $\chi^2/\text{NDF}$ : 6950350605404624

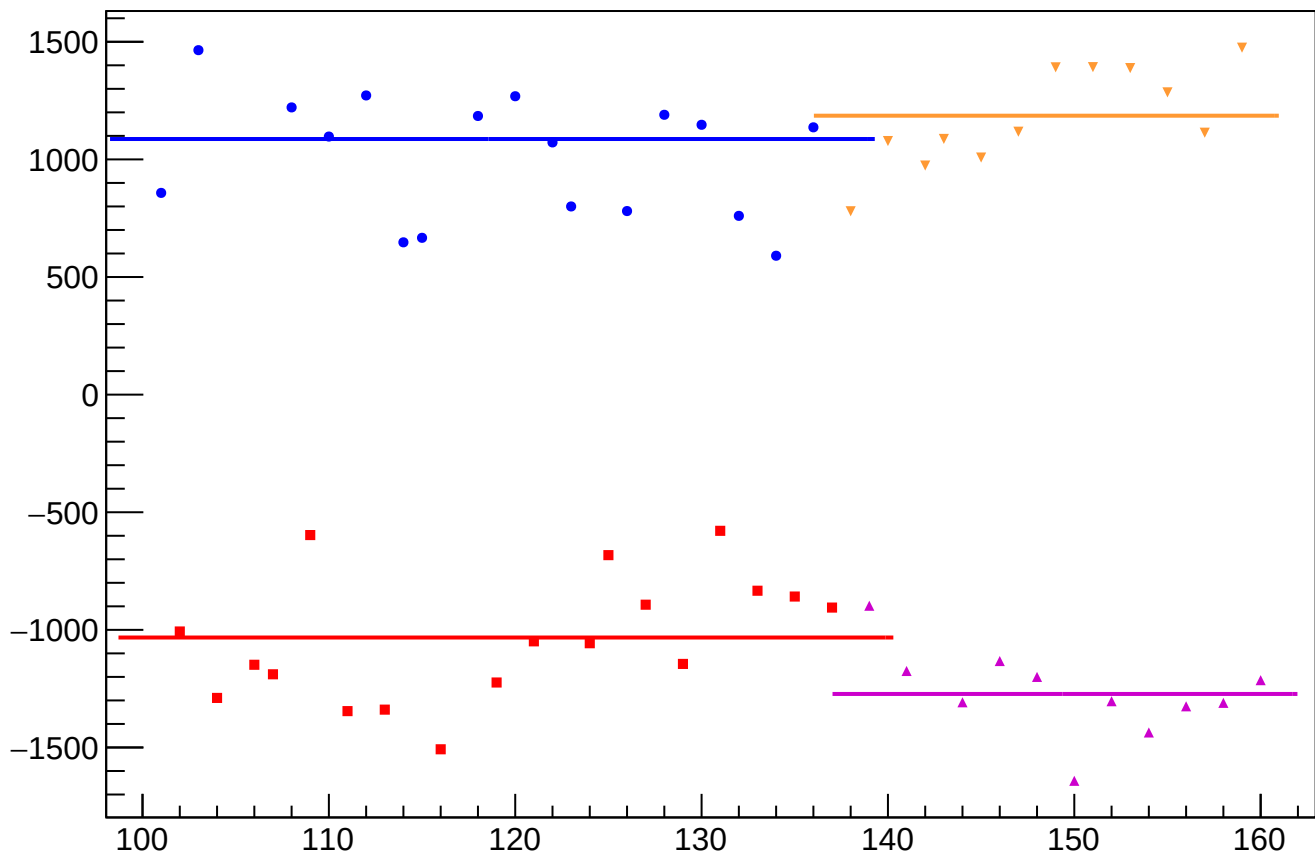
All: -31.679 +/- 0.000  $\chi^2/\text{NDF}$ : 240379233691

dit\_sam1\_coil3\_err\_mean vs Slug, Sign Corrected



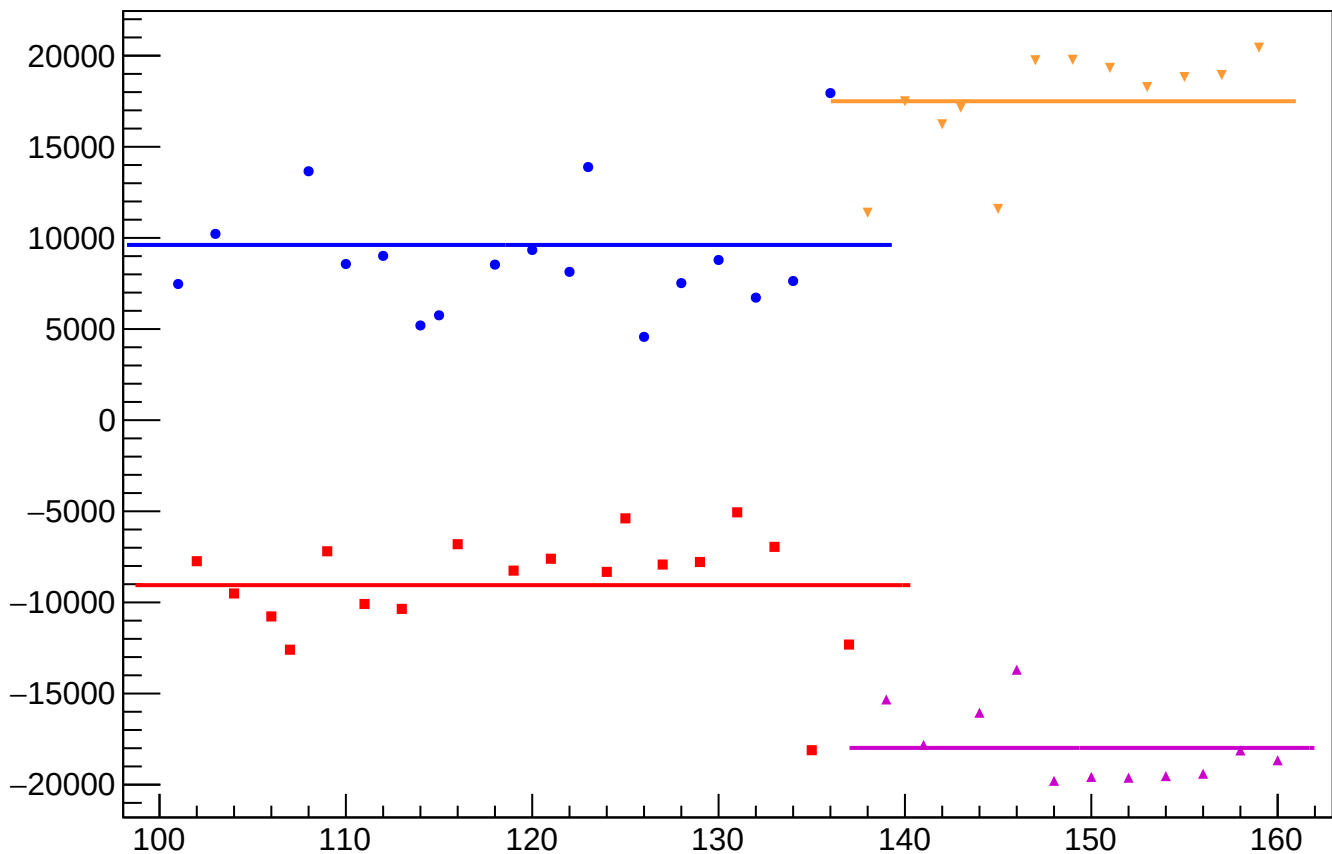
Right In:  $70.892 \pm 0.000$   $\chi^2/\text{NDF}: 2275734493854200628376973265629872128.0/16$   
 Left Out:  $32.091 \pm 0.000$   $\chi^2/\text{NDF}: 54625109486428917738965927425212416.0/11$   
 Right Out:  $-76.360 \pm 0.000$   $\chi^2/\text{NDF}: 2382375226603203691068269213188620288.0/17$   
 Left In:  $-34.184 \pm 0.000$   $\chi^2/\text{NDF}: 12426918146189706802189676664848384.0/10$   
 All:  $-2.498 \pm 0.000$   $\chi^2/\text{NDF}: 1438817264667$

dit\_sam1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



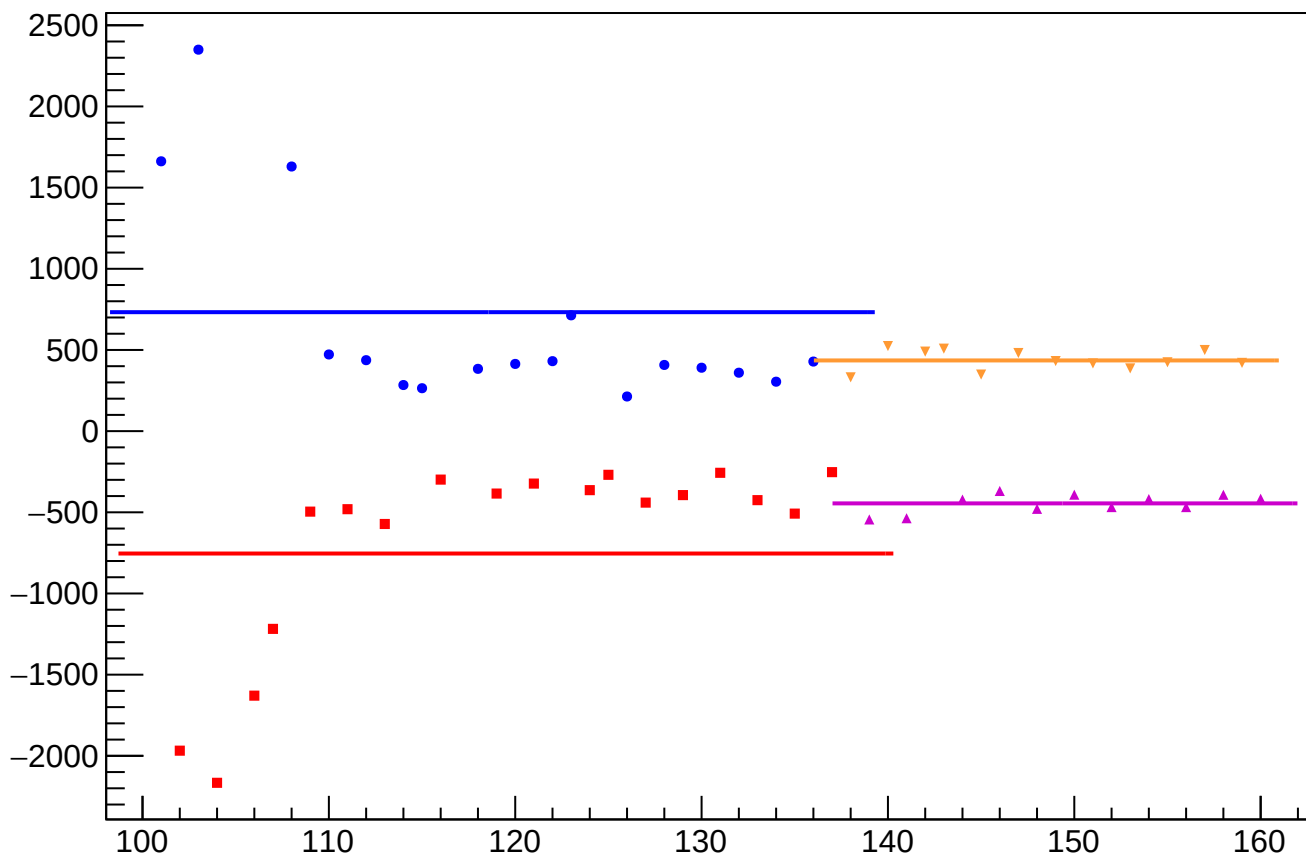
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823 $\pm$ 0.000  $\chi^2$ /NDF: 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495 $\pm$ 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



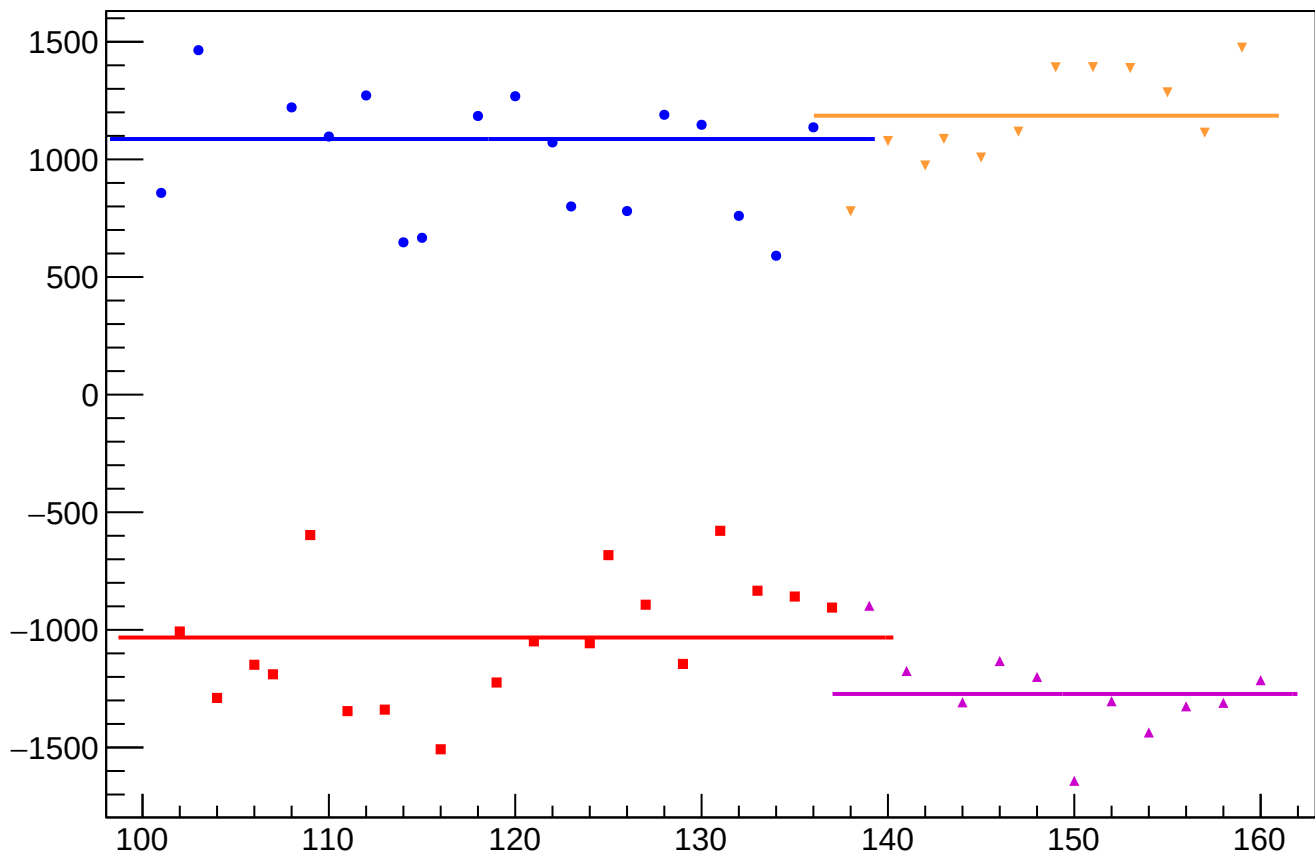
Right In: 9614.932 $\pm$ 0.000  $\chi^2$ /NDF: 9450588438014082769578324832201526476800.0/16  
 Left Out: 17500.786 $\pm$ 0.000  $\chi^2$ /NDF: 7846813012026023217295297642858706632704.0/11  
 Right Out: -9052.441 $\pm$ 0.000  $\chi^2$ /NDF: 6723672544856808135538254172135519944704.0/17  
 Left In: -17983.189 $\pm$ 0.000  $\chi^2$ /NDF: 3584595715288567917039077291852254150656.0/10  
 All: -206.039 $\pm$ 0.000  $\chi^2$ /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

Left: -59.351+/-0.000  $\chi^2/\text{NDF}$ : 2849915835351934

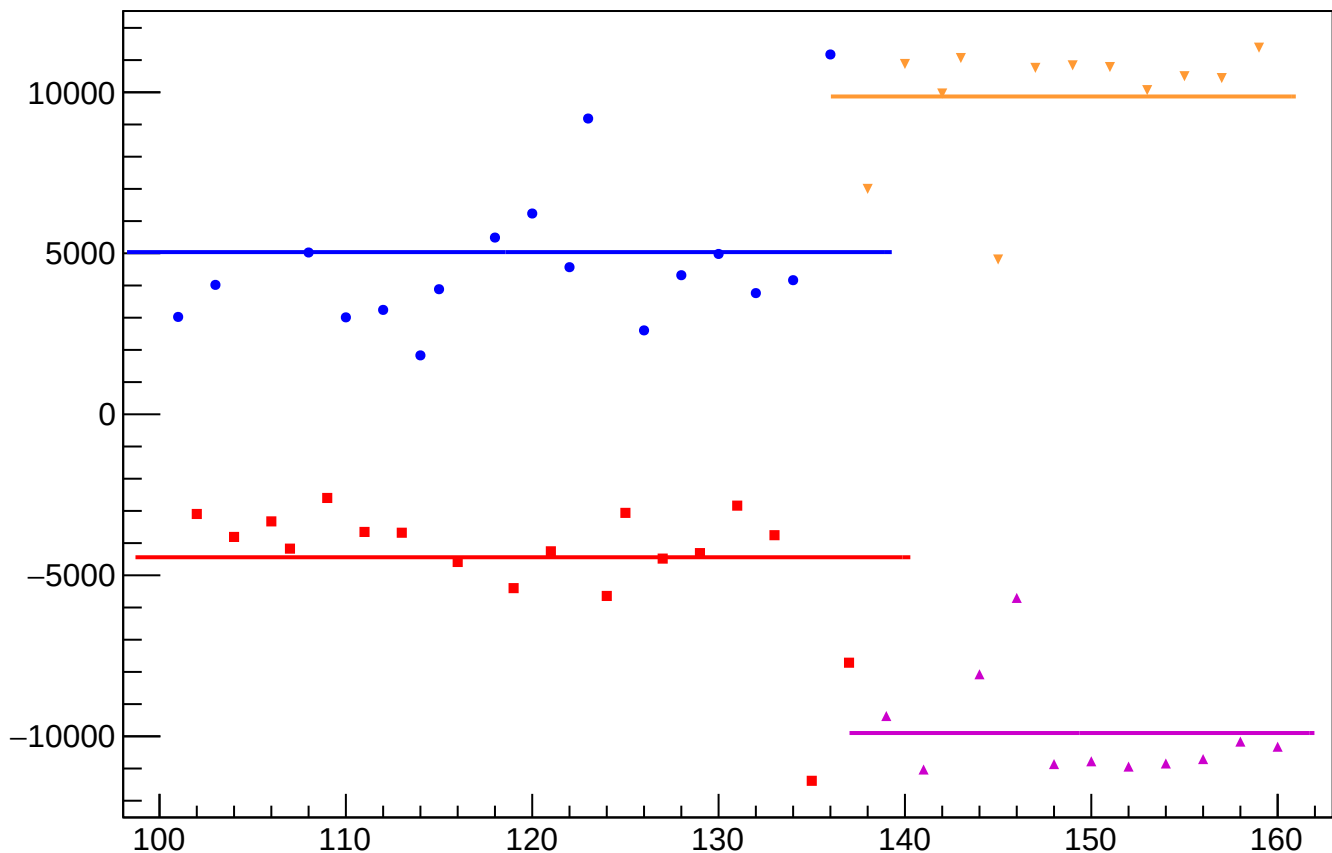
Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

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\_sam3\_coil3\_mean vs Slug, Sign Corrected



Right In: 5037.073+/-0.000

Left: -142.751+/-0.000  $\chi^2/\text{NDF}$ : 185463079567203

Left Out: 9869.728+/-0.000

Right: 228.228+/-0.000  $\chi^2/\text{NDF}$ : 393379023749041

Right Out: -4439.378+/-0.000

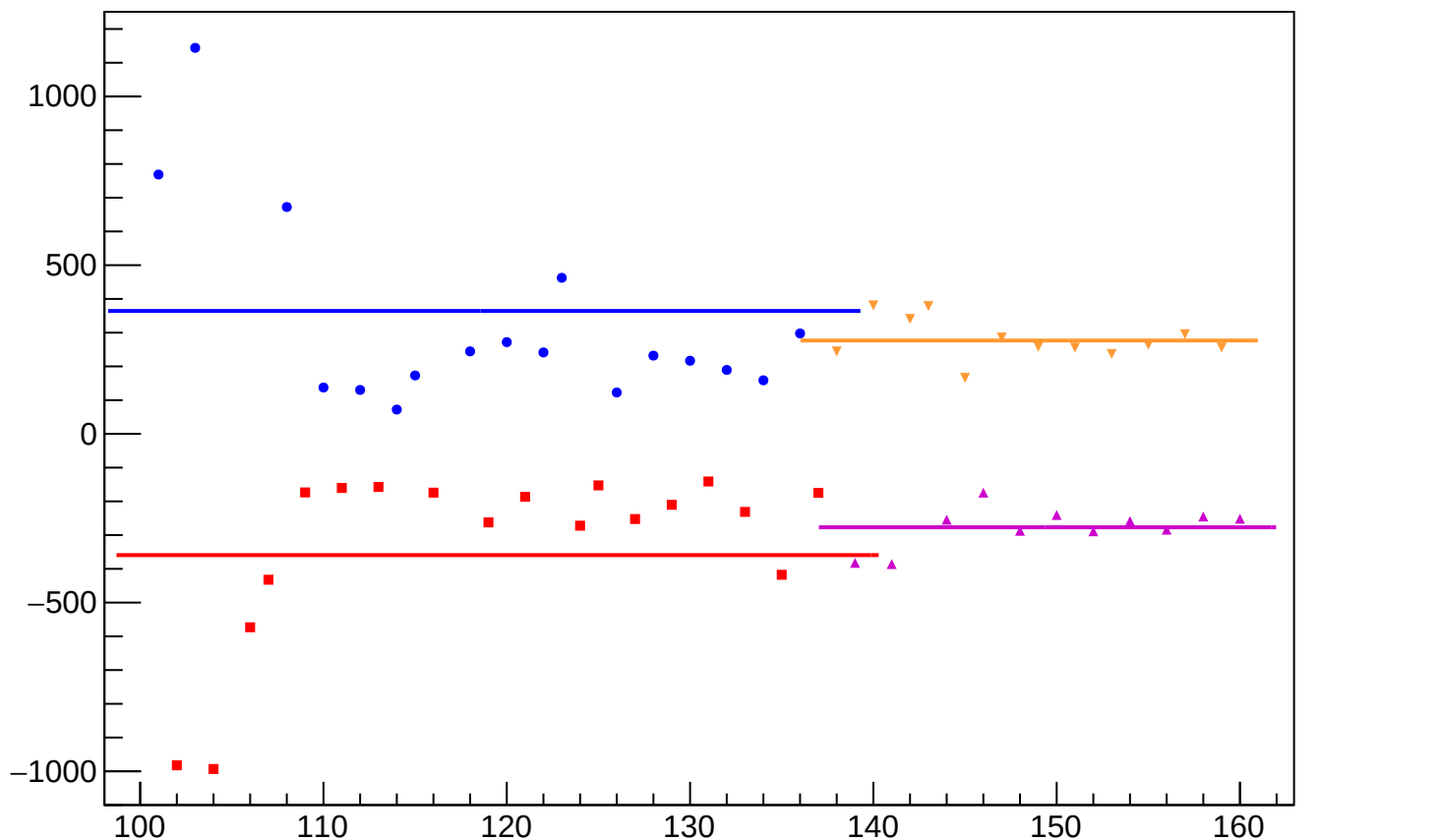
In: -3527.229+/-0.000  $\chi^2/\text{NDF}$ : 956002120511637

Left In: -9897.674+/-0.000

Out: 3569.844+/-0.000  $\chi^2/\text{NDF}$ : 883737217884158

All: 18.033+/-0.000  $\chi^2/\text{NDF}$ : 2249108527212

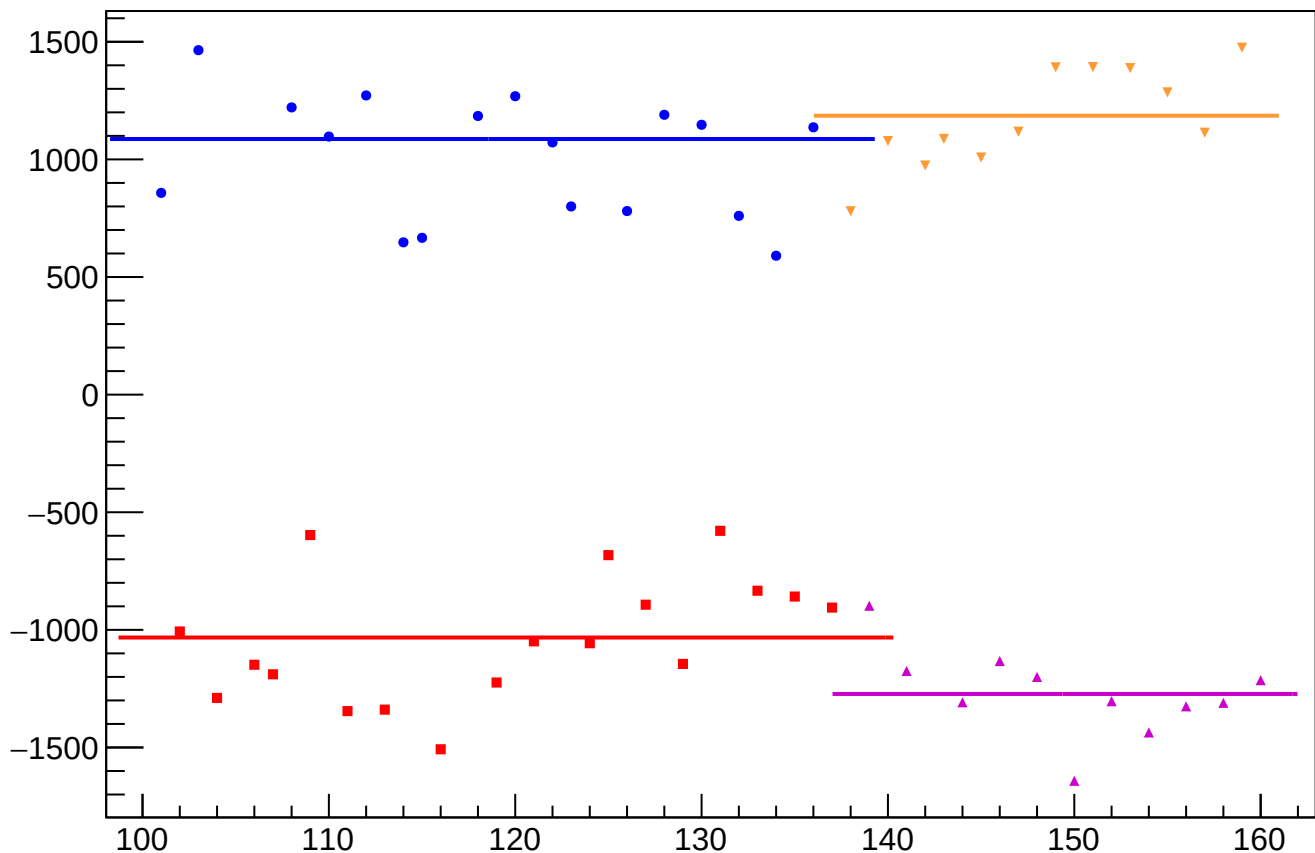
dit\_sam3\_coil3\_err\_mean vs Slug, Sign Corrected



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

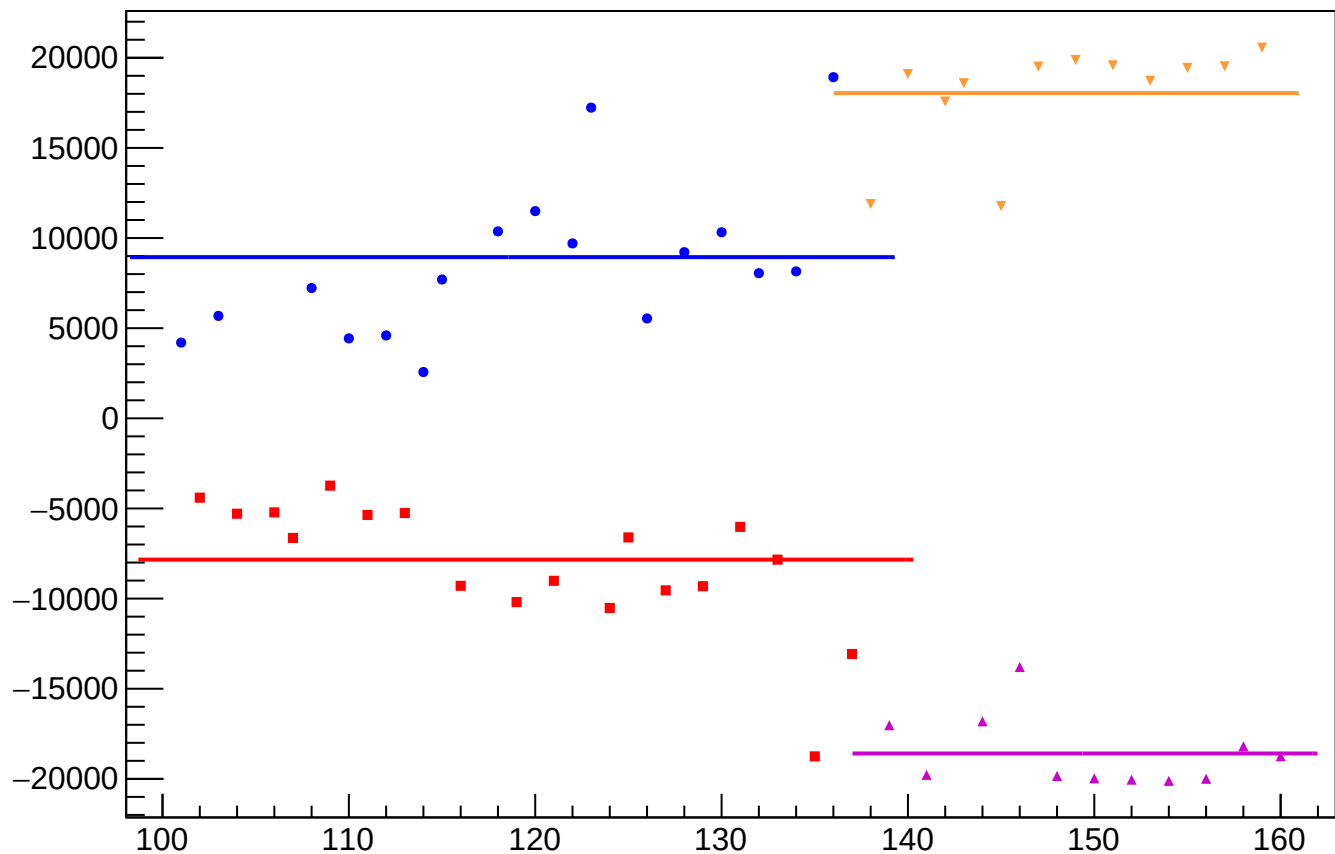


dit\_sam3\_coil3\_Ndata\_mean vs Slug, Sign Corrected



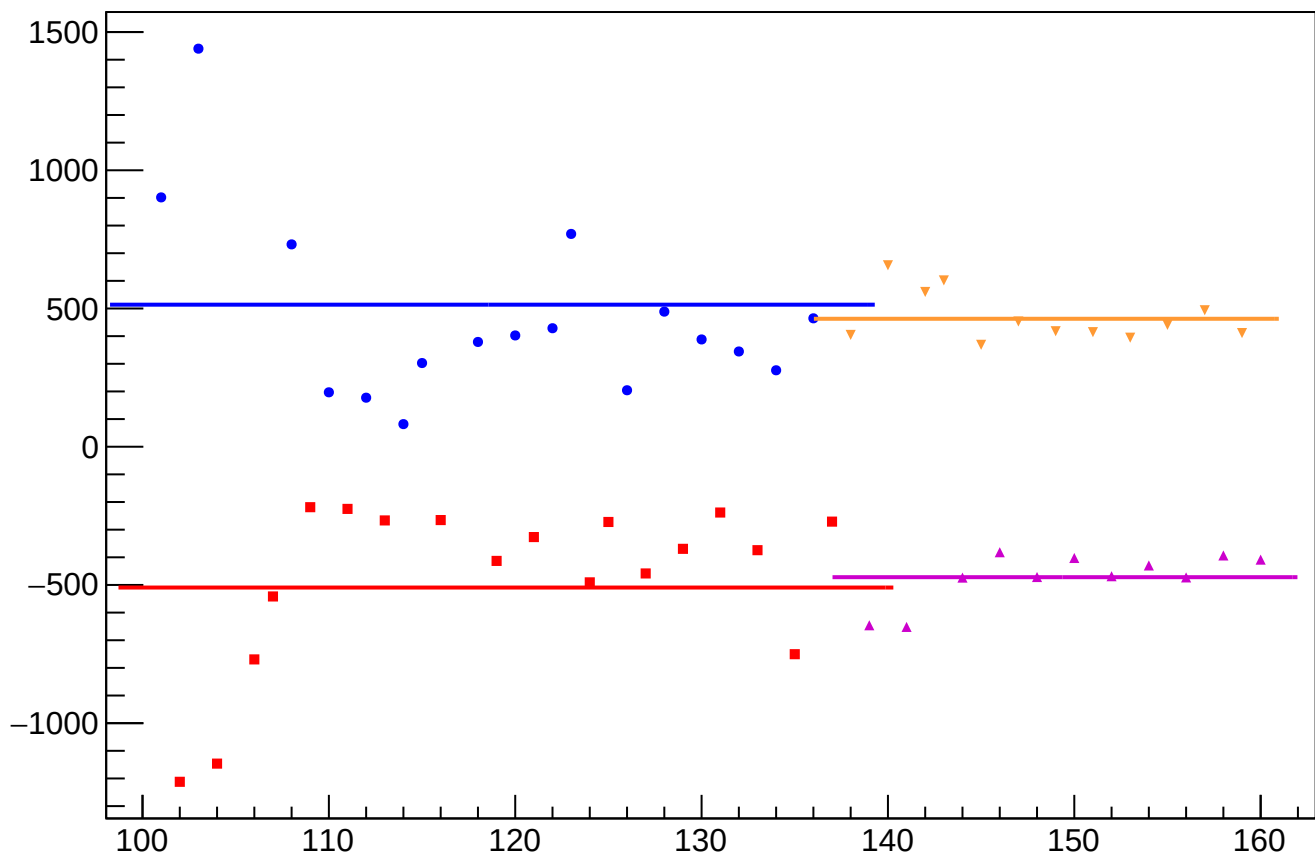
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -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



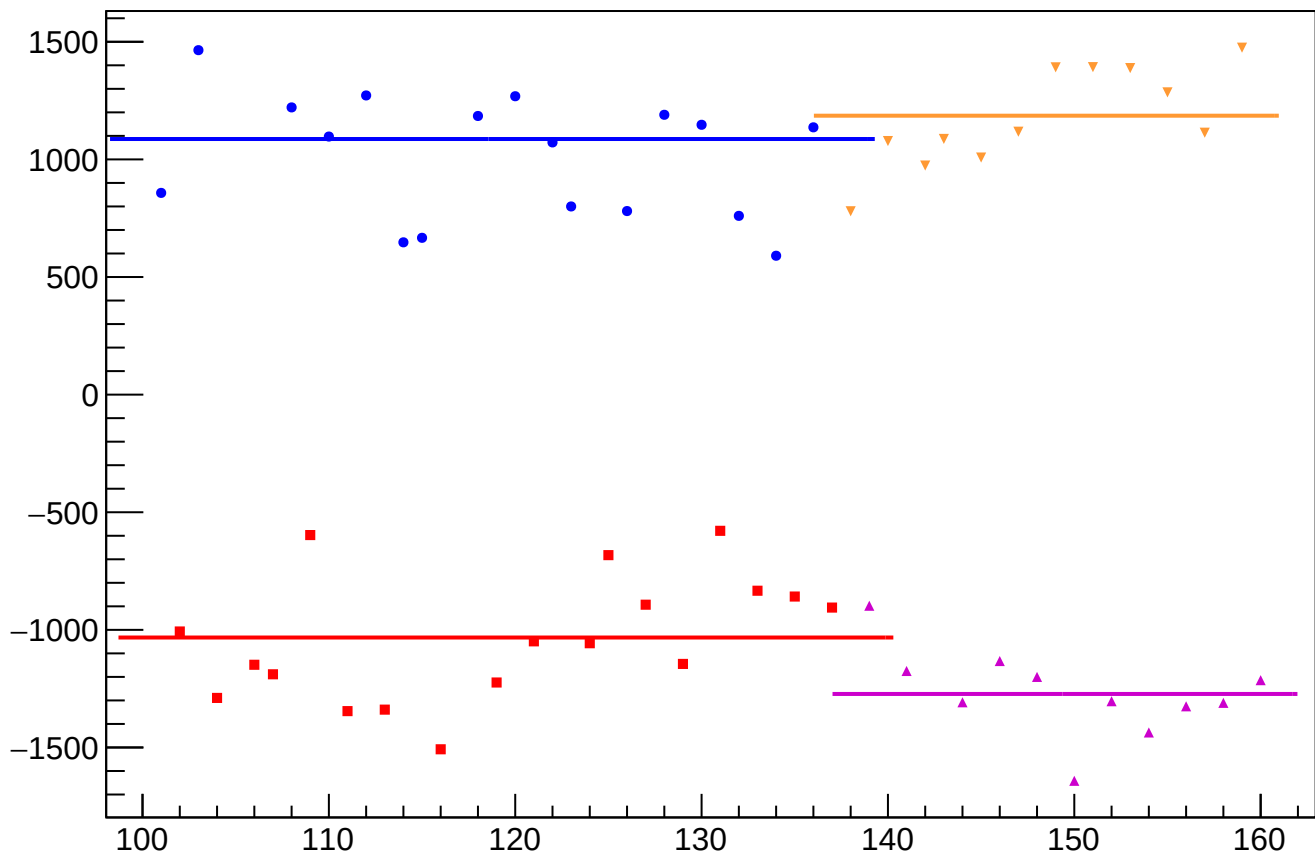
Right In: 8940.709+/-0.000  $\chi^2/\text{NDF}$ : 14252298982323079680975069701388839682048.0/16  
 Left Out: 18042.230+/-0.000  $\chi^2/\text{NDF}$ : 7640646522897487857135230772113708154880.0/11  
 Right Out: -7838.226+/-0.000  $\chi^2/\text{NDF}$ : 9846913896882704140251290027429415878656.0/17  
 Left In: -18591.547+/-0.000  $\chi^2/\text{NDF}$ : 3373827841621741048896229754913272365056.0/10  
 All: -106.123+/-0.000  $\chi^2/\text{NDF}$ : 75286778977

dit\_sam4\_coil3\_err\_mean vs Slug, Sign Corrected



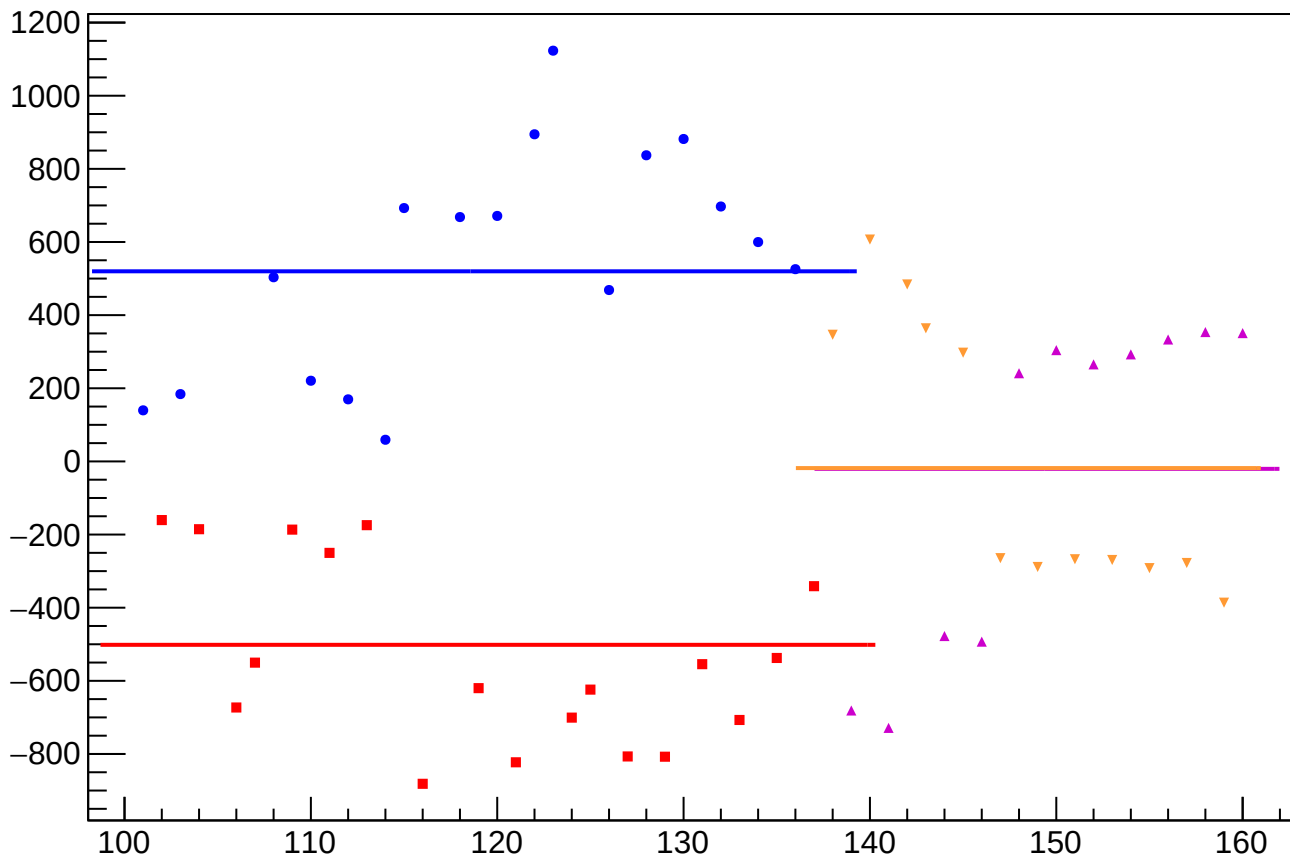
Right In: 513.843 $\pm$ 0.000  $\chi^2$ /NDF: 82523650579604289792107532326249955328.0/16  
 Left Out: 462.844 $\pm$ 0.000  $\chi^2$ /NDF: 6830648525623684817395137022896635904.0/11  
 Right Out: -509.362 $\pm$ 0.000  $\chi^2$ /NDF: 75678926781858707627162203023281750016.0/17  
 Left In: -471.889 $\pm$ 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



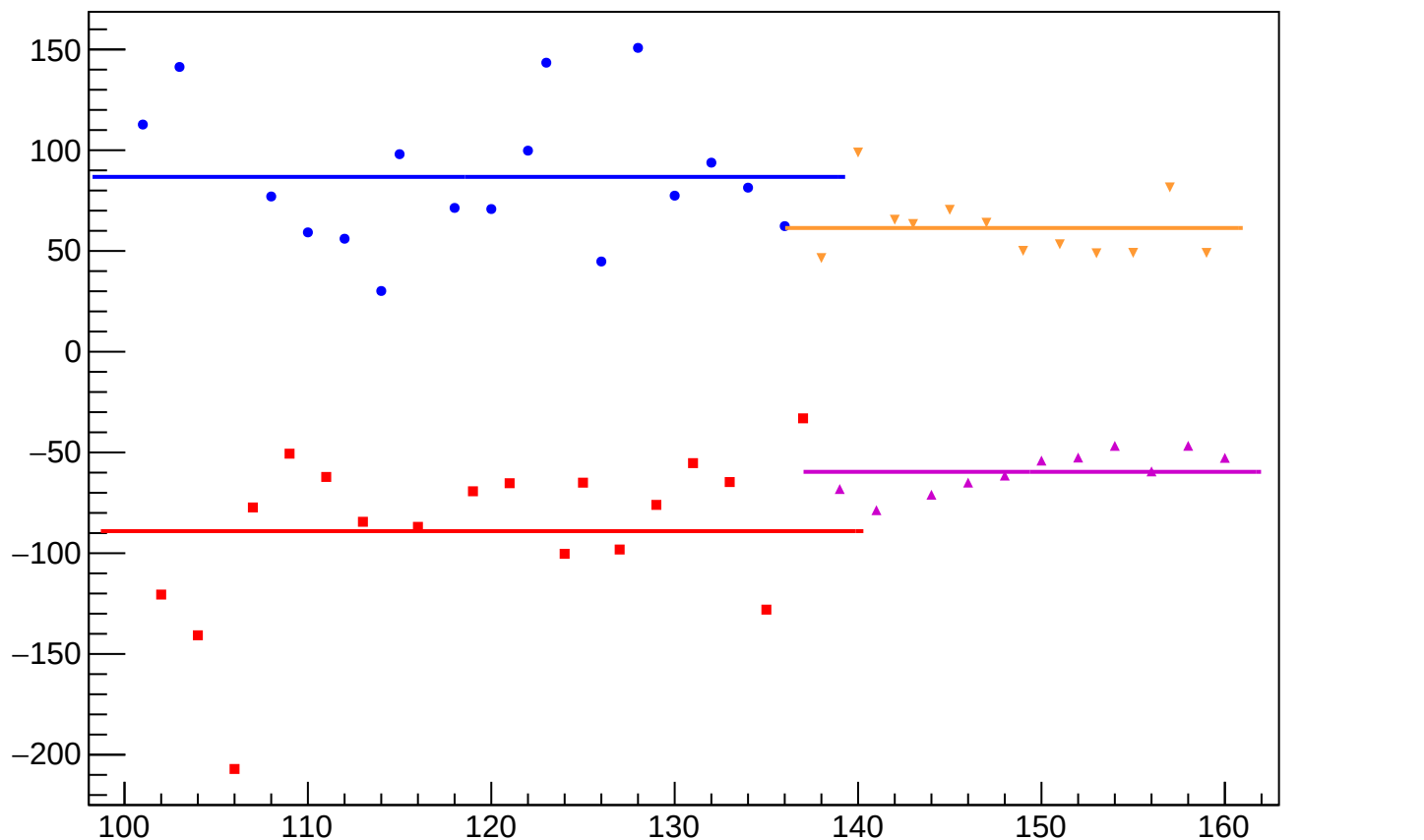
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -1272.495+/-0.000  $\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10  
 All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam5\_coil3\_mean vs Slug, Sign Corrected



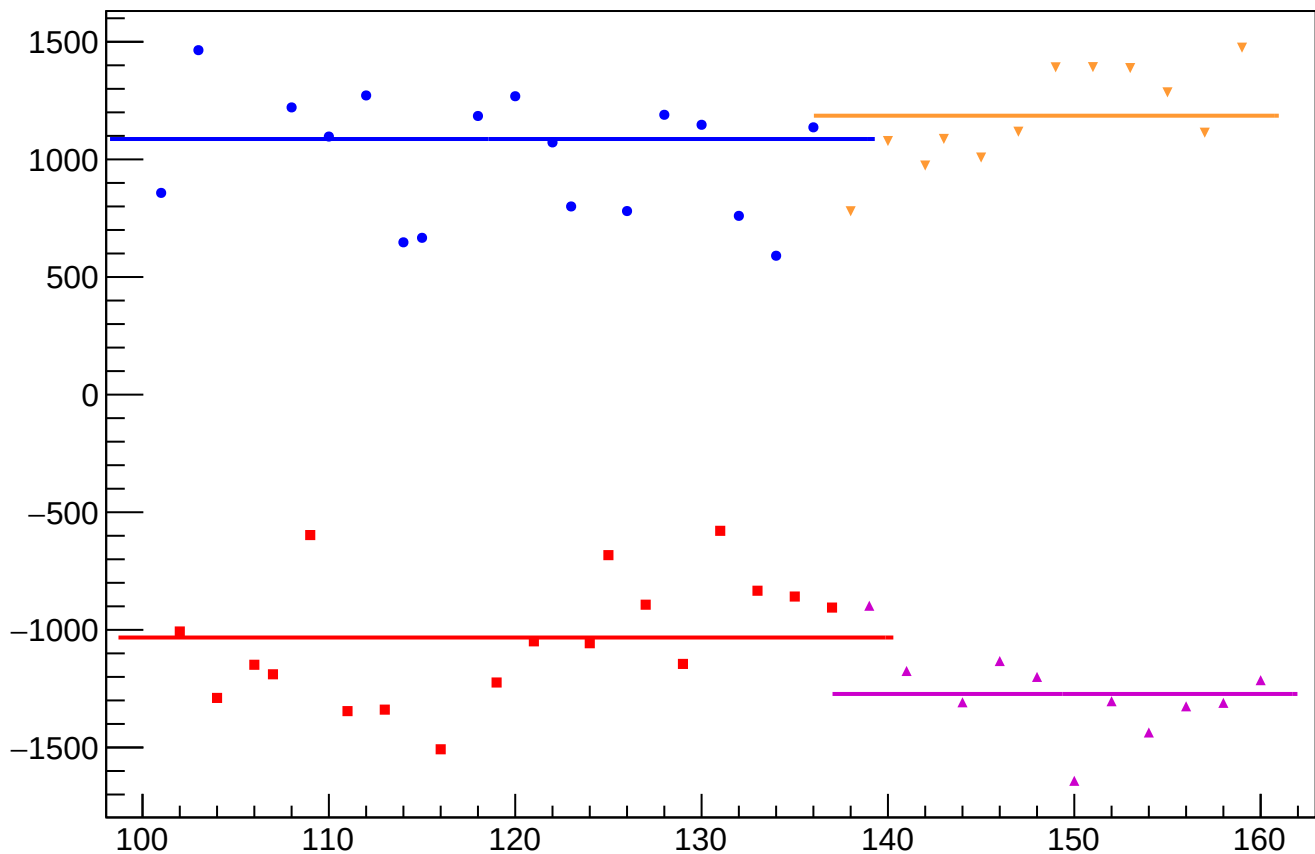
Left: -19.300+/-0.000  $\chi^2/\text{NDF}$ : 2934499708996127  
 Right In: 519.845+/-0.000  $\chi^2/\text{NDF}$ : 50391712122122241983004017290687545344.0/16  
 Left Out: -18.246+/-0.000  $\chi^2/\text{NDF}$ : 114374265303636923998653923051335319552.0/11  
 Right Out: -501.527+/-0.000  $\chi^2/\text{NDF}$ : 45593938816418547057443342639695921152.0/17  
 In: 210.084+/-0.000  $\chi^2/\text{NDF}$ : 34558867557832259  
 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:  $86.768 \pm 0.000$   $\chi^2/\text{NDF}: 727044528904958232730586242846031872.0/16$   
 Left Out:  $61.403 \pm 0.000$   $\chi^2/\text{NDF}: 223902255538930337202441578161897472.0/11$   
 Right Out:  $-89.028 \pm 0.000$   $\chi^2/\text{NDF}: 1014702057025769592460755223634247680.0/17$   
 Left In:  $-59.611 \pm 0.000$   $\chi^2/\text{NDF}: 90277020610973878591704182850322432.0/10$   
 All:  $-0.997 \pm 0.000$   $\chi^2/\text{NDF}: 1968732828441$

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

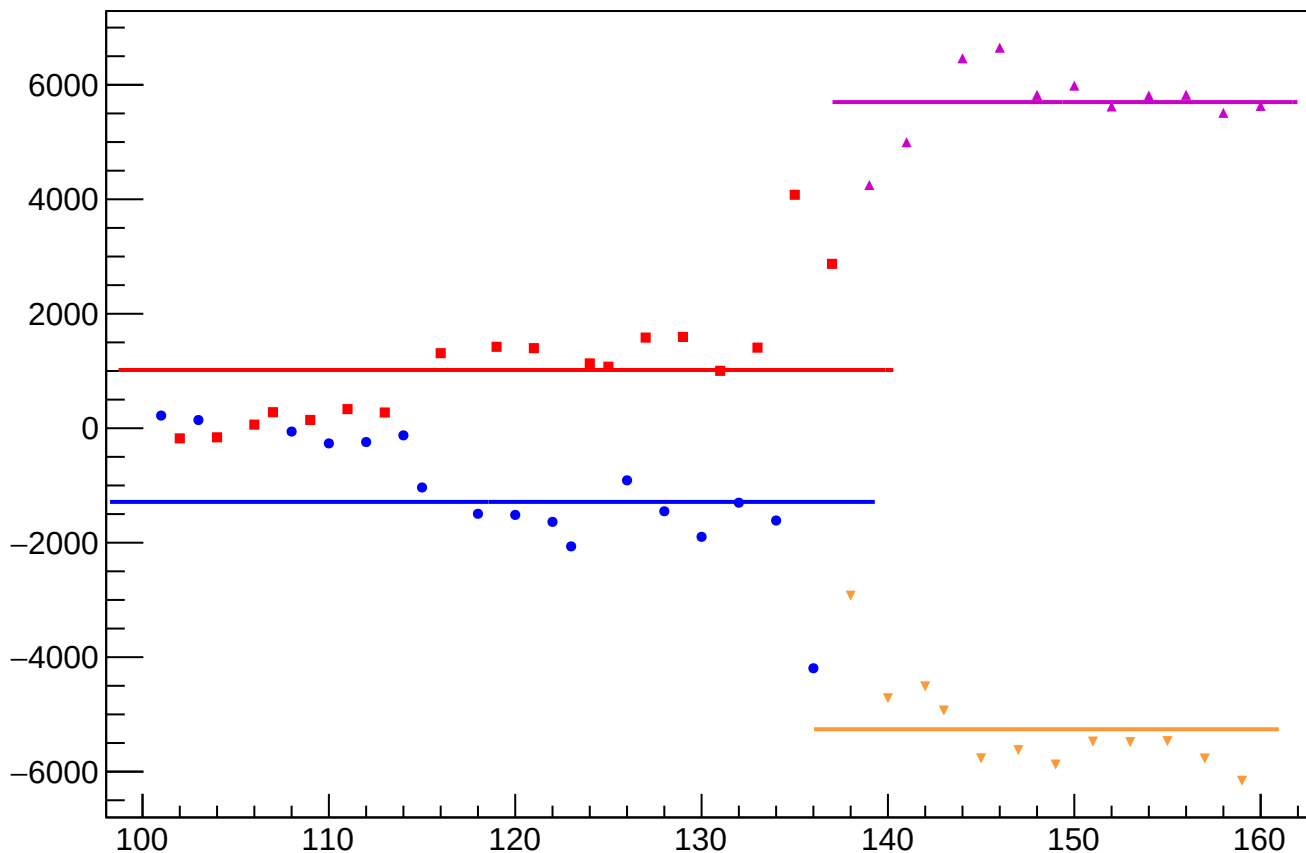
Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

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

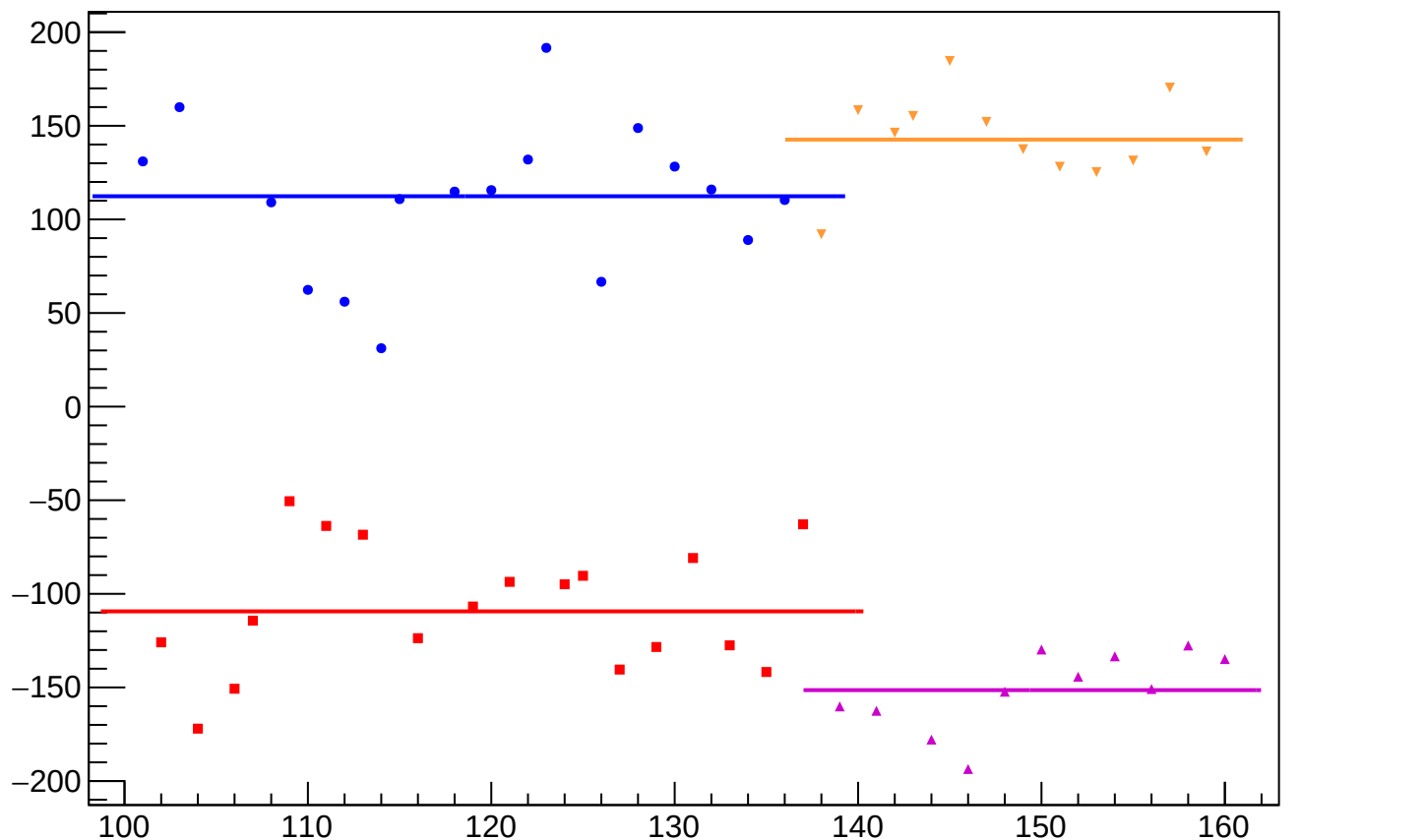
In: 2718.837+/-0.000  $\chi^2/\text{NDF}$ : 2097904135008849

Out: -2495.522+/-0.000  $\chi^2/\text{NDF}$ : 17258594612441

All: 114.063+/-0.000  $\chi^2/\text{NDF}$ : 603359178912

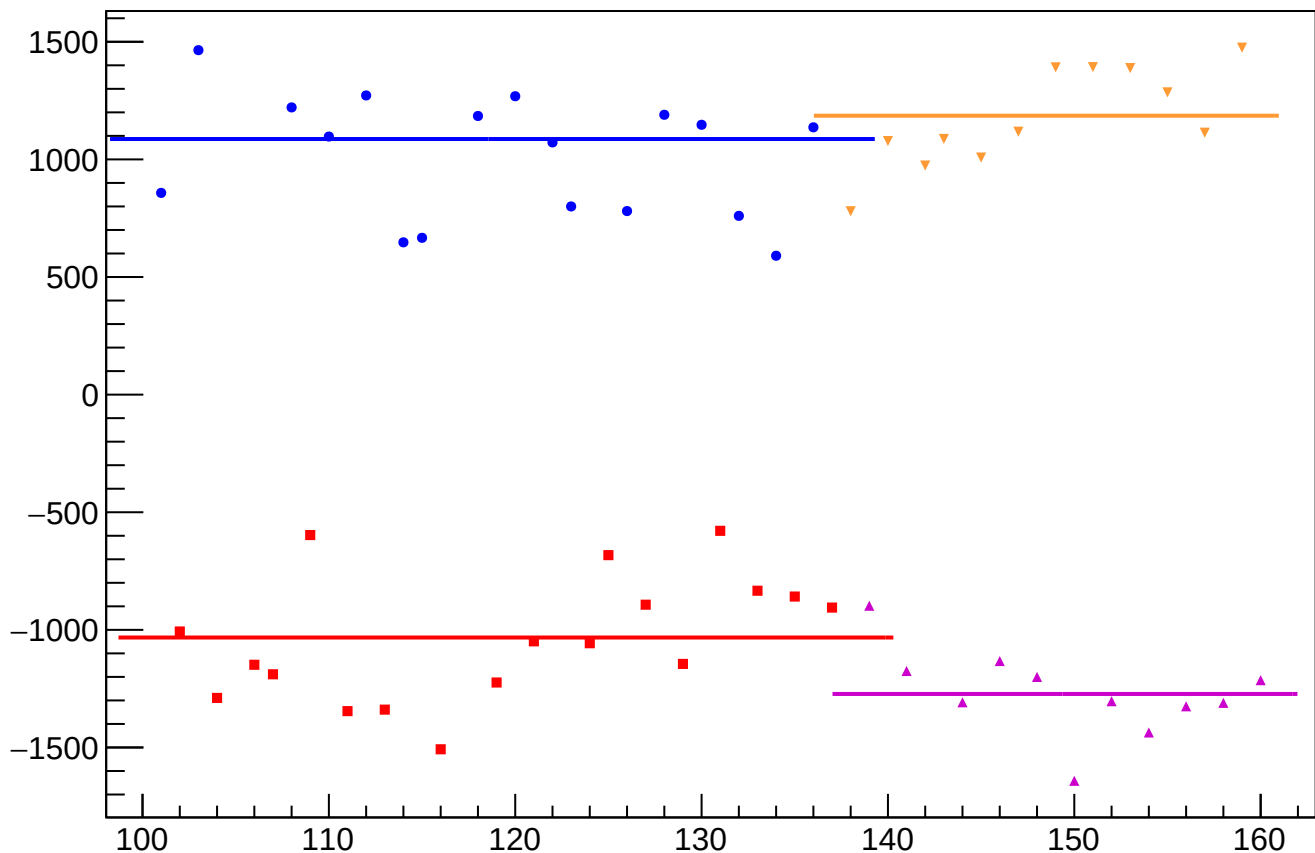


dit\_sam6\_coil3\_err\_mean vs Slug, Sign Corrected



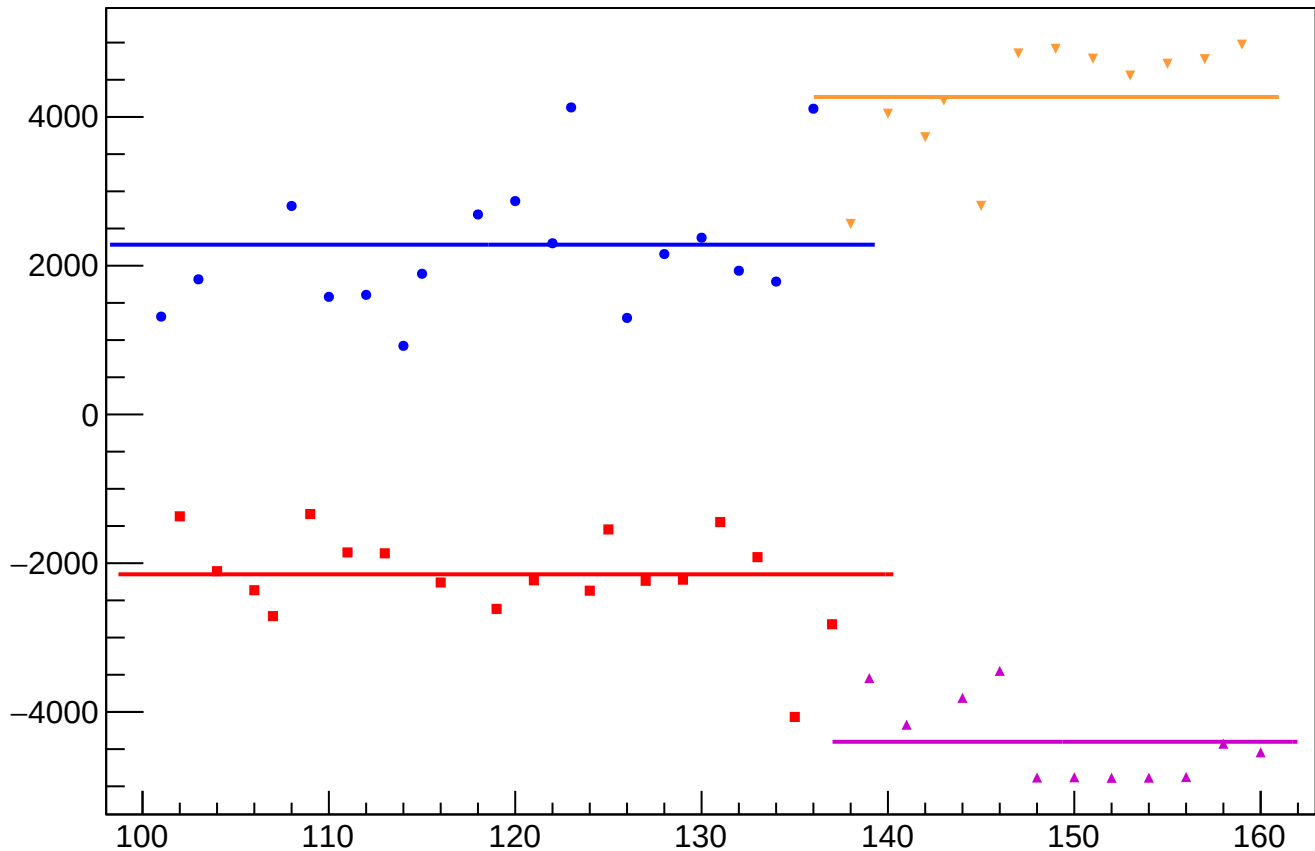
Left:  $-6.320 \pm 0.000$   $\chi^2/\text{NDF}: 40673295027841380$   
 Right:  $-0.152 \pm 0.000$   $\chi^2/\text{NDF}: 1885682581787099$   
 In:  $-38.909 \pm 0.000$   $\chi^2/\text{NDF}: 28769377129905934$   
 Out:  $31.681 \pm 0.000$   $\chi^2/\text{NDF}: 26741154163550074$   
 All:  $-3.647 \pm 0.000$   $\chi^2/\text{NDF}: 5956048648863$

dit\_sam6\_coil3\_Ndata\_mean vs Slug, Sign Corrected



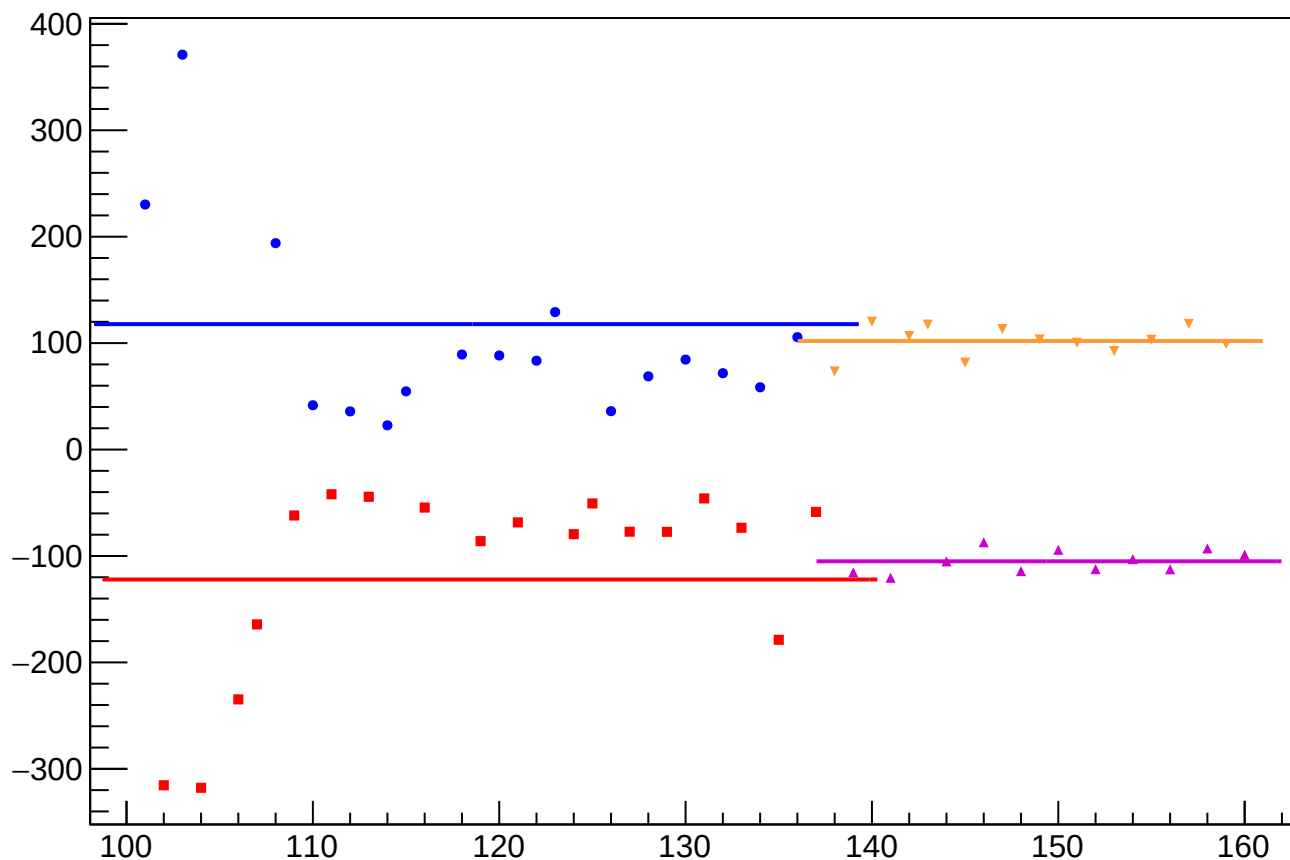
Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 1185.823+/-0.000  $\chi^2/\text{NDF}$ : 37557683033316568818198536296895348736.0/11  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -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



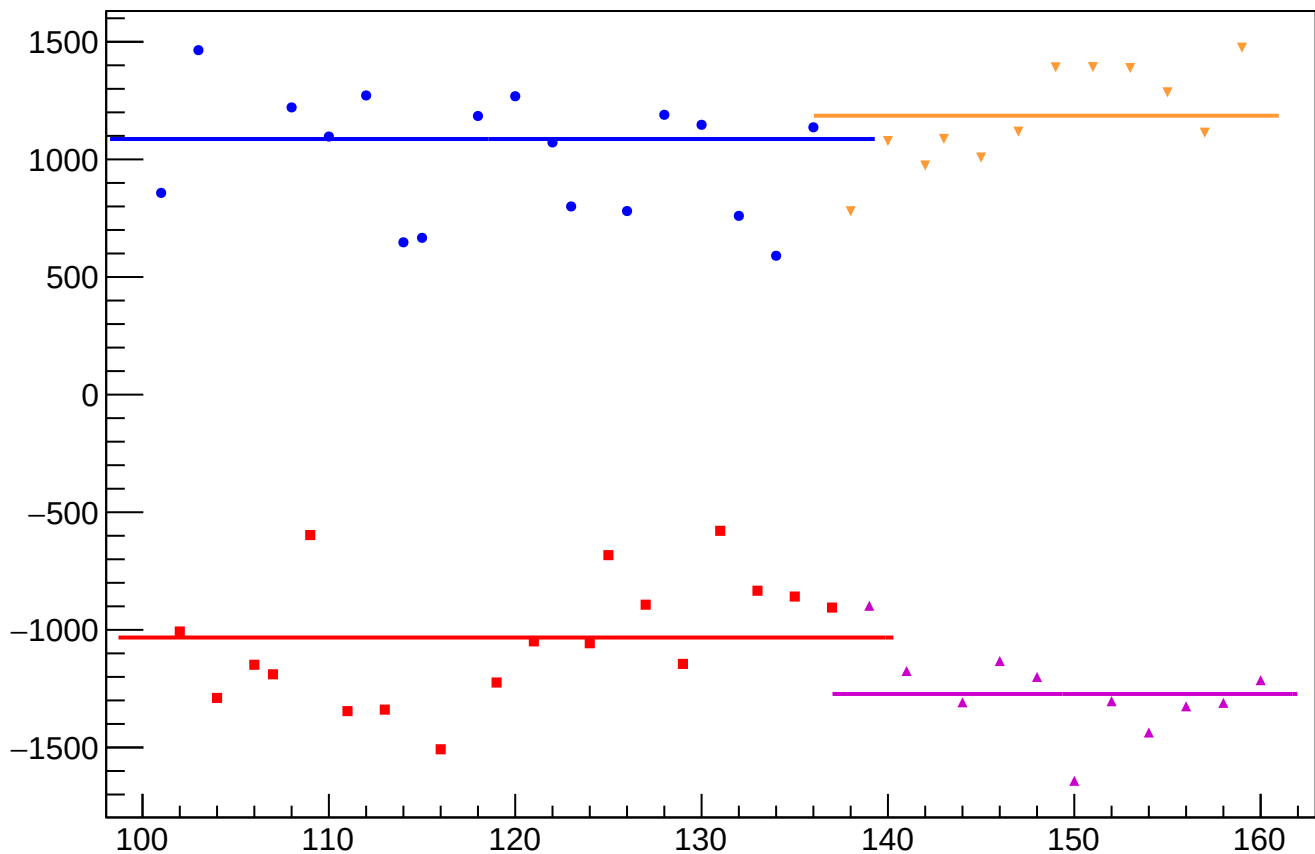
Right In: 2282.778+/-0.000  $\chi^2/\text{NDF}$ : 521869333583833068444115371437594771456.0/16  
 Left Out: 4268.620+/-0.000  $\chi^2/\text{NDF}$ : 576373438836983826408088908187698200576.0/11  
 Right Out: -2149.386+/-0.000  $\chi^2/\text{NDF}$ : 320631411360836158094549979591860027392.0/17  
 Left 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

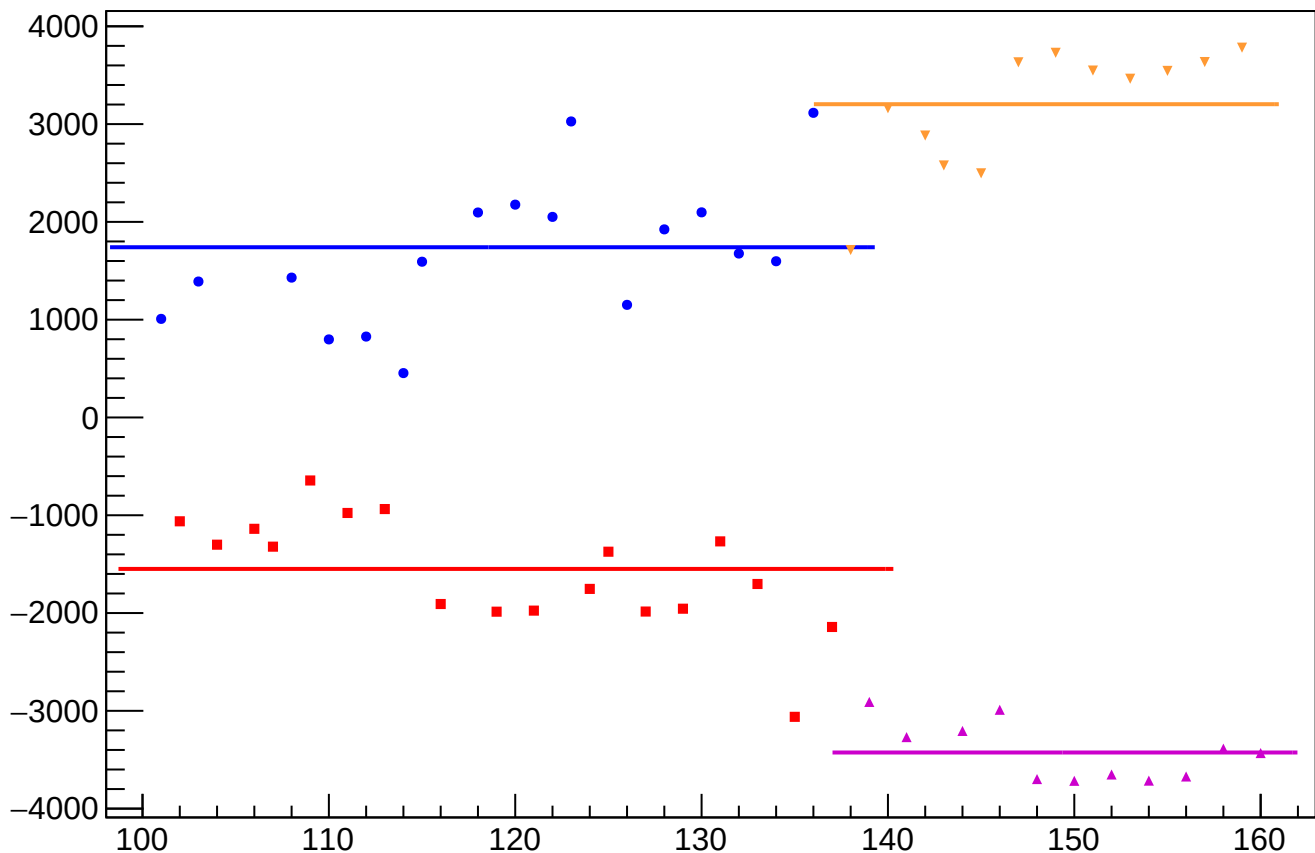
$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -1272.495+/-0.000

$\chi^2/\text{NDF}$ : 29878198288838193261445678233542459392.0/10

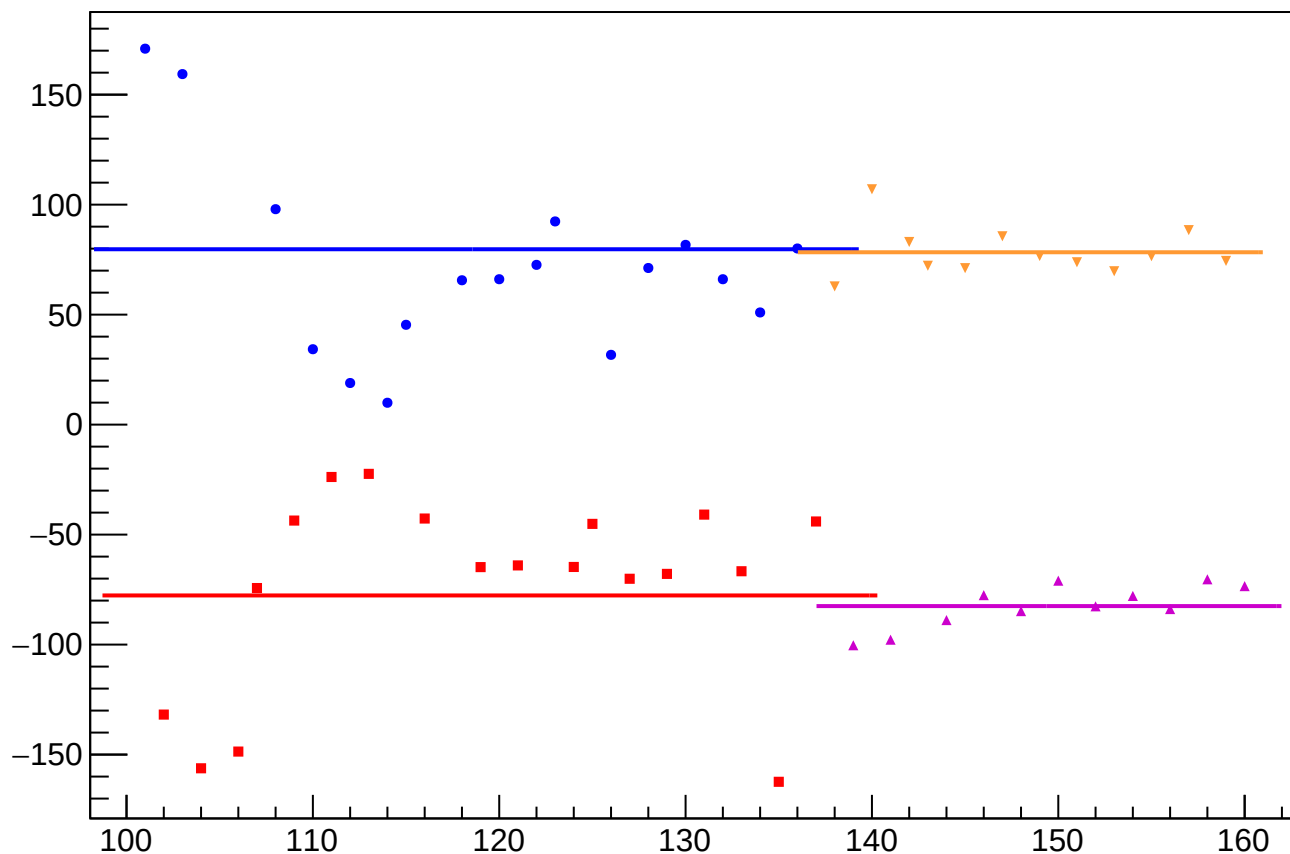
All: -28.738+/-0.000  $\chi^2/\text{NDF}$ : 451779050699

# dit\_sam8\_coil3\_mean vs Slug, Sign Corrected



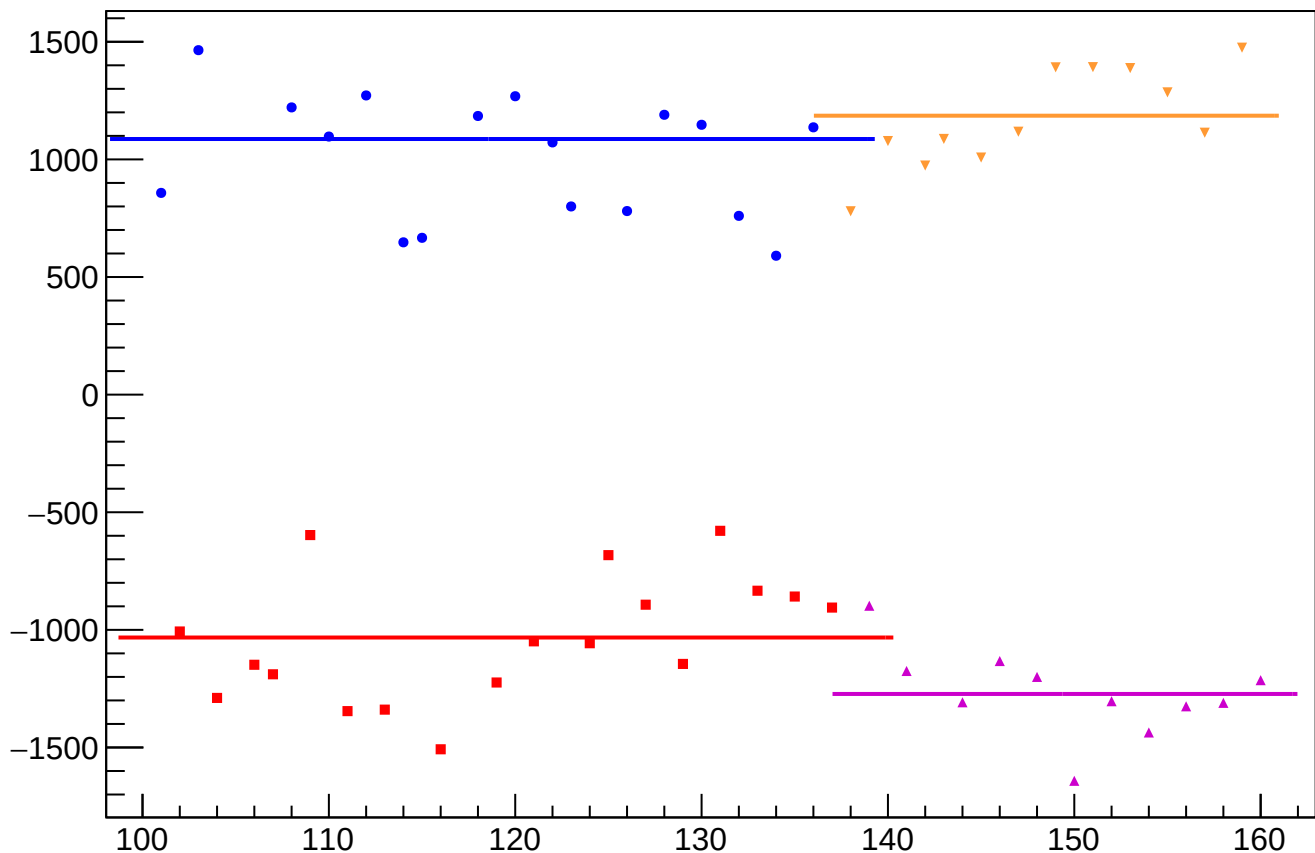
Right In: 1740.720+/-0.000  $\chi^2/\text{NDF}$ : 348962001897552007024222547428010622976.0/16  
 Left Out: 3203.449+/-0.000  $\chi^2/\text{NDF}$ : 345784551251095236762093437118983438336.0/11  
 Right Out: -1548.740+/-0.000  $\chi^2/\text{NDF}$ : 255013280564316736413287354207314116608.0/17  
 Left 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



Right In:  $79.722 \pm 0.000$   $\chi^2/\text{NDF}: 1349884201001122025991797772619087872.0/16$   
 Left Out:  $78.356 \pm 0.000$   $\chi^2/\text{NDF}: 114896120803259231895139298203140096.0/11$   
 Right Out:  $-77.658 \pm 0.000$   $\chi^2/\text{NDF}: 1483793243606577649503828870787235840.0/17$   
 Left In:  $-82.494 \pm 0.000$   $\chi^2/\text{NDF}: 84649934677405665053102578448990208.0/10$   
 All:  $-1.827 \pm 0.000$   $\chi^2/\text{NDF}: 2367528402707$

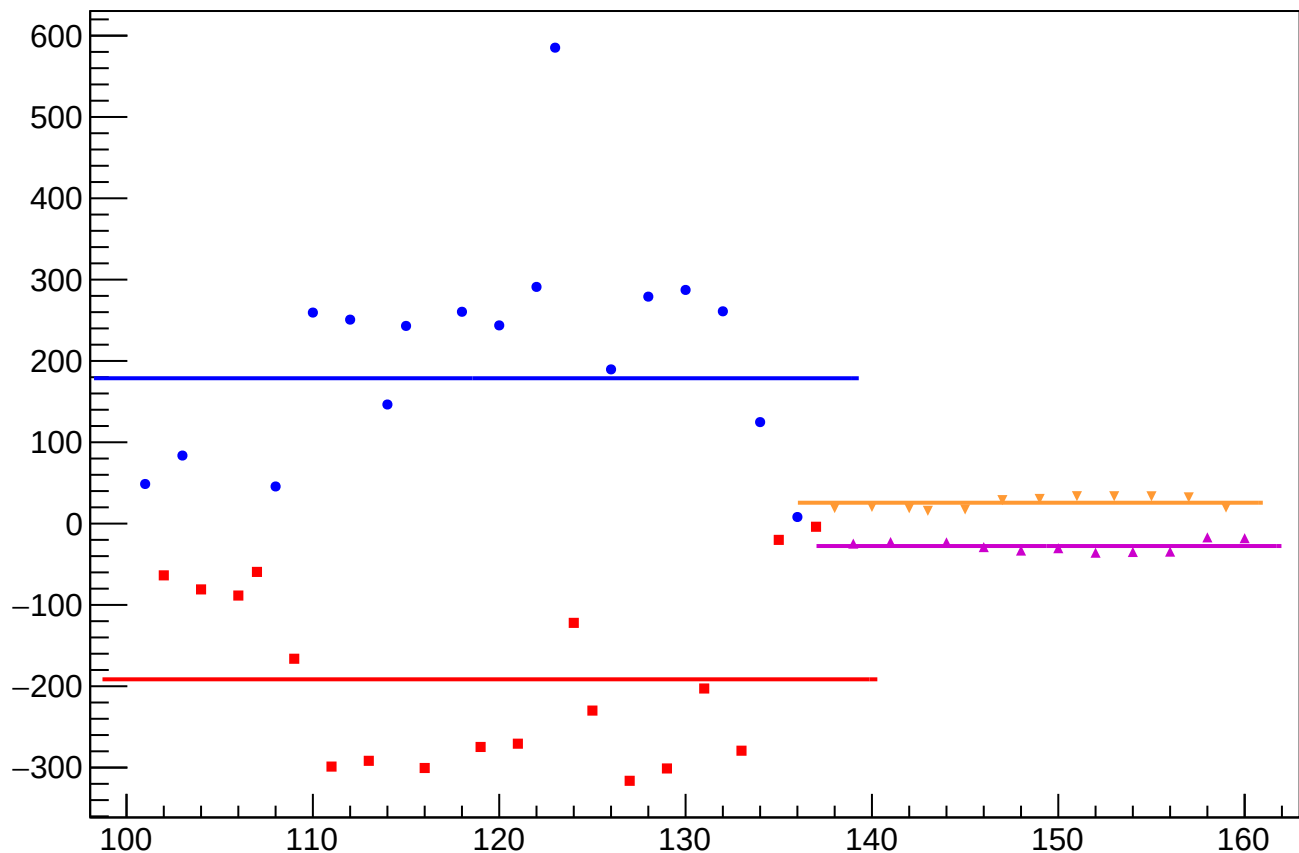
dit\_sam8\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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\_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

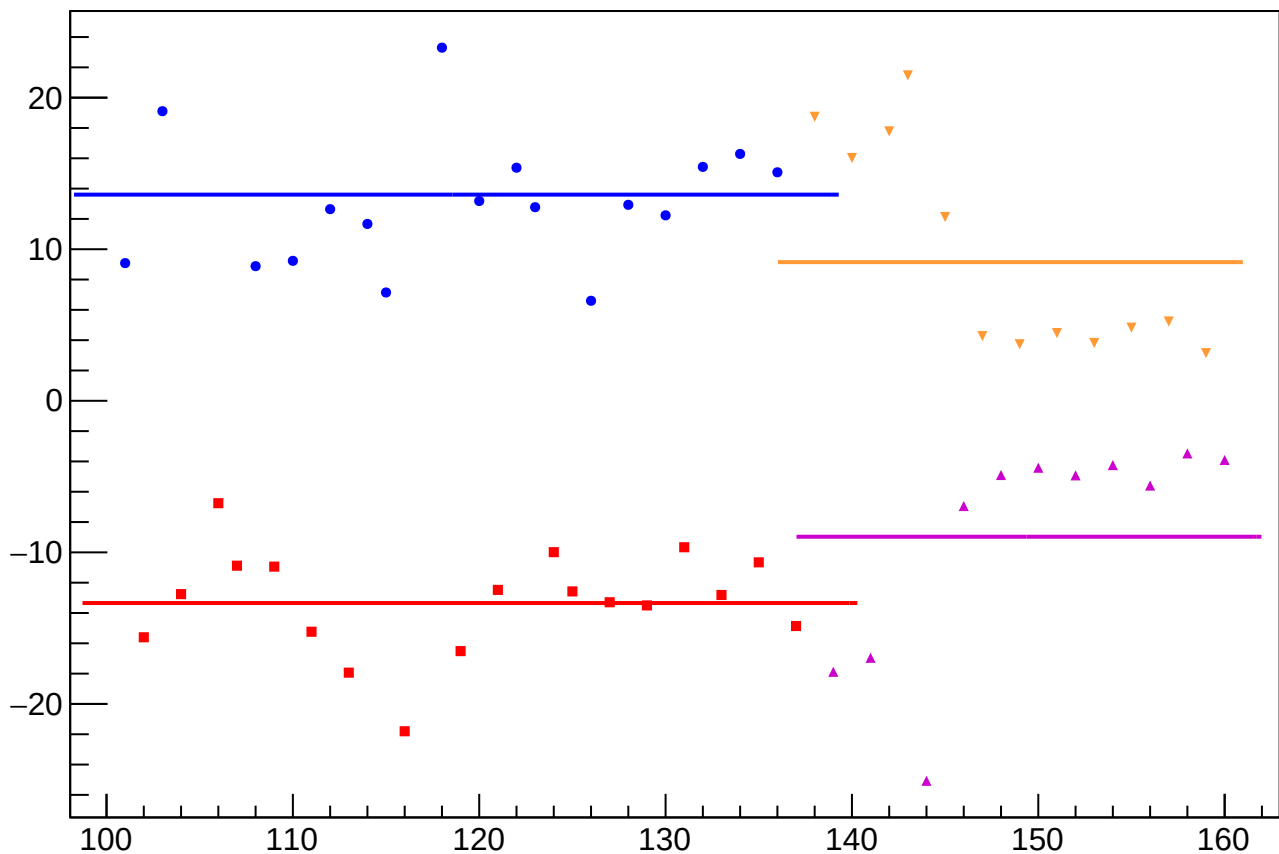
$\chi^2/\text{NDF}$ : 8150461362250913614126902389436841984.0/17

Left In: -27.579+/-0.000

$\chi^2/\text{NDF}$ : 39364281565589269782784177585782784.0/10

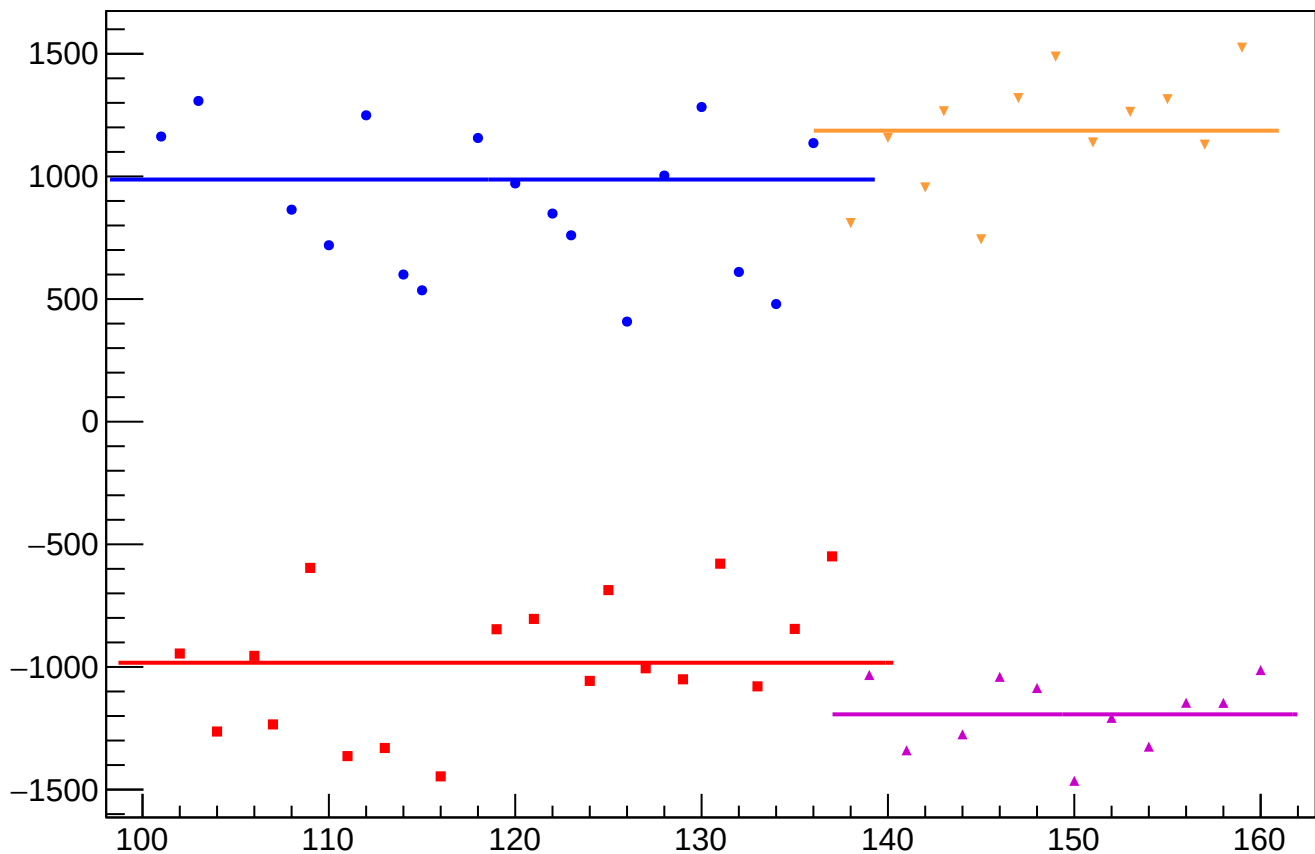
All: -4.696+/-0.000  $\chi^2/\text{NDF}$ : 6635167668479

dit\_4aX\_coil7\_err\_mean vs Slug, Sign Corrected



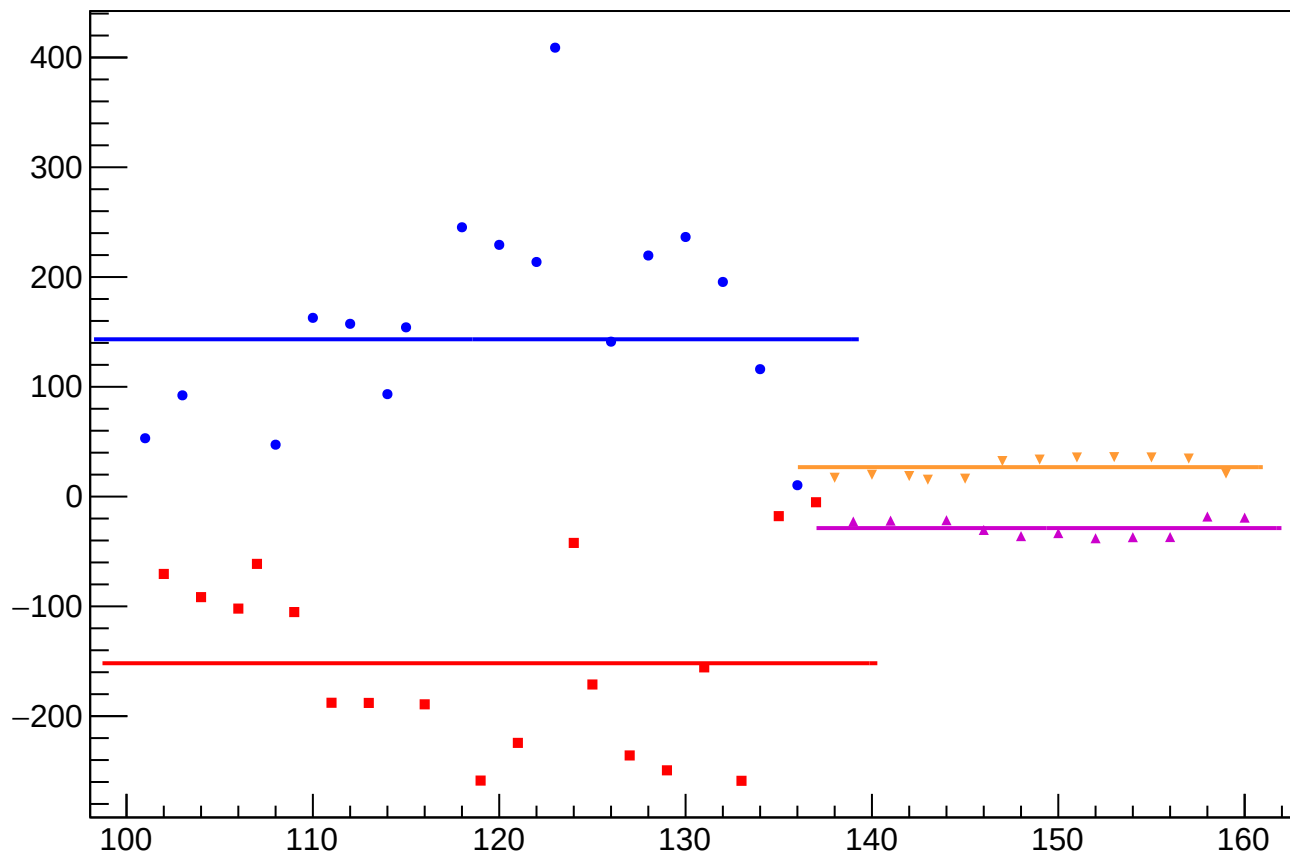
Left:  $-0.027 \pm 0.000$   $\chi^2/\text{NDF}$ : 23786914105617751  
 Right In:  $13.603 \pm 0.000$   $\chi^2/\text{NDF}$ : 12735243270159378009596948914372608.0/16  
 Right:  $-0.071 \pm 0.000$   $\chi^2/\text{NDF}$ : 2752368214719958  
 Left Out:  $9.150 \pm 0.000$   $\chi^2/\text{NDF}$ : 39277872742254074386096302311079936.0/11  
 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



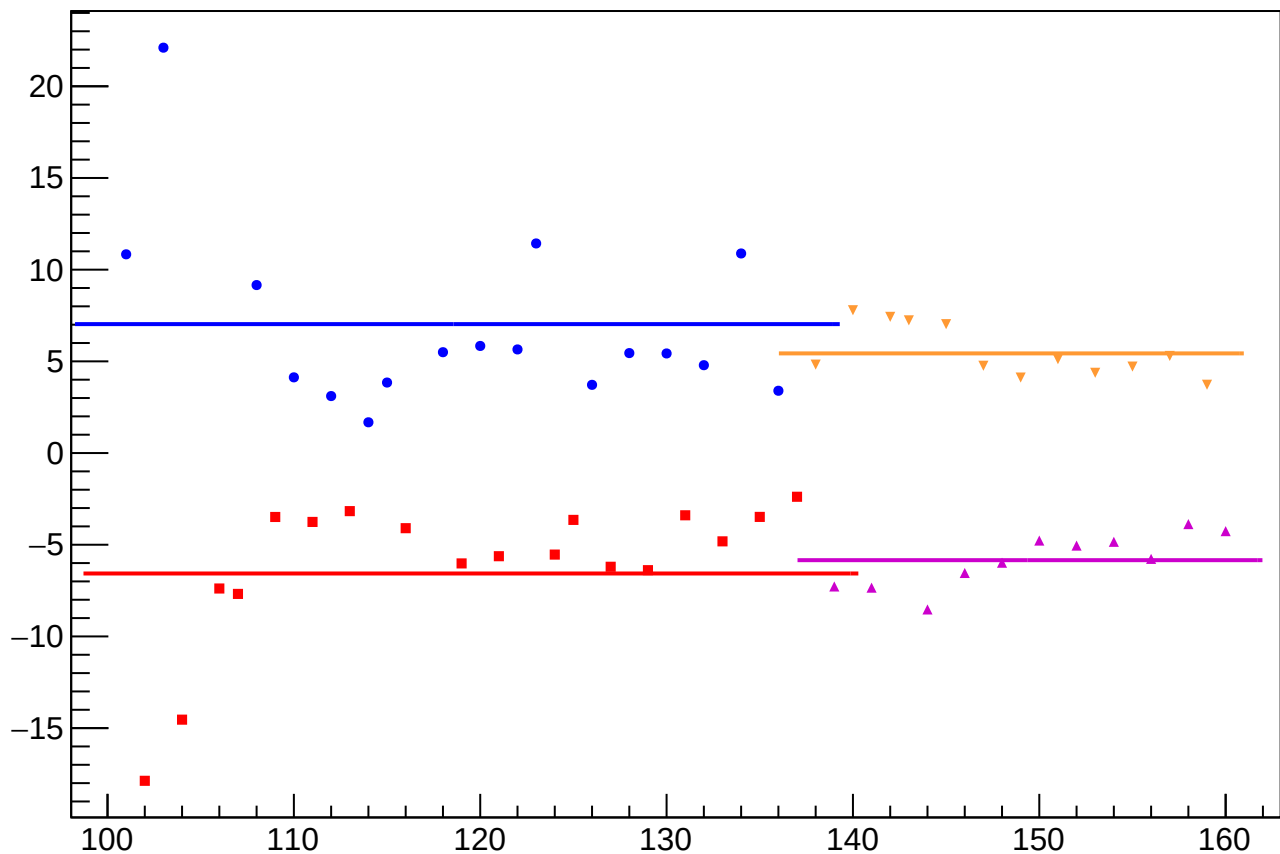
Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16  
 Left Out: 1186.594+/-0.000  $\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11  
 Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17  
 Left In: -1193.230+/-0.000  $\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10  
 All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_4eX\_coil7\_mean vs Slug, Sign Corrected



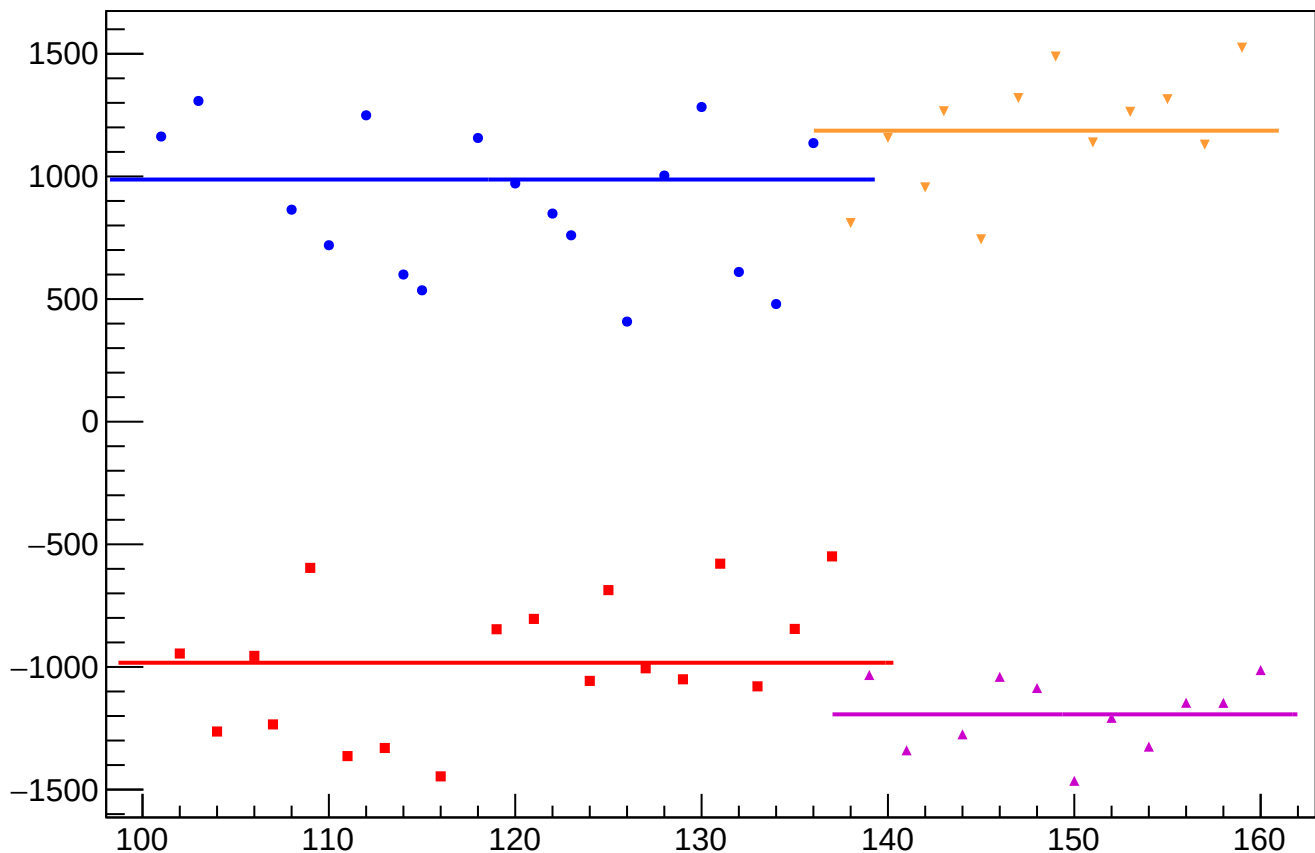
Left:  $-1.307 \pm 0.000$   $\chi^2/\text{NDF}: 15373366738372324$   
 Right In:  $143.291 \pm 0.000$   $\chi^2/\text{NDF}: 4778890435983165530583685149403119616.0/16$   
 Right:  $-6.463 \pm 0.000$   $\chi^2/\text{NDF}: 4010201428427812$   
 Left Out:  $26.816 \pm 0.000$   $\chi^2/\text{NDF}: 64568009381250036040665945578930176.0/11$   
 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



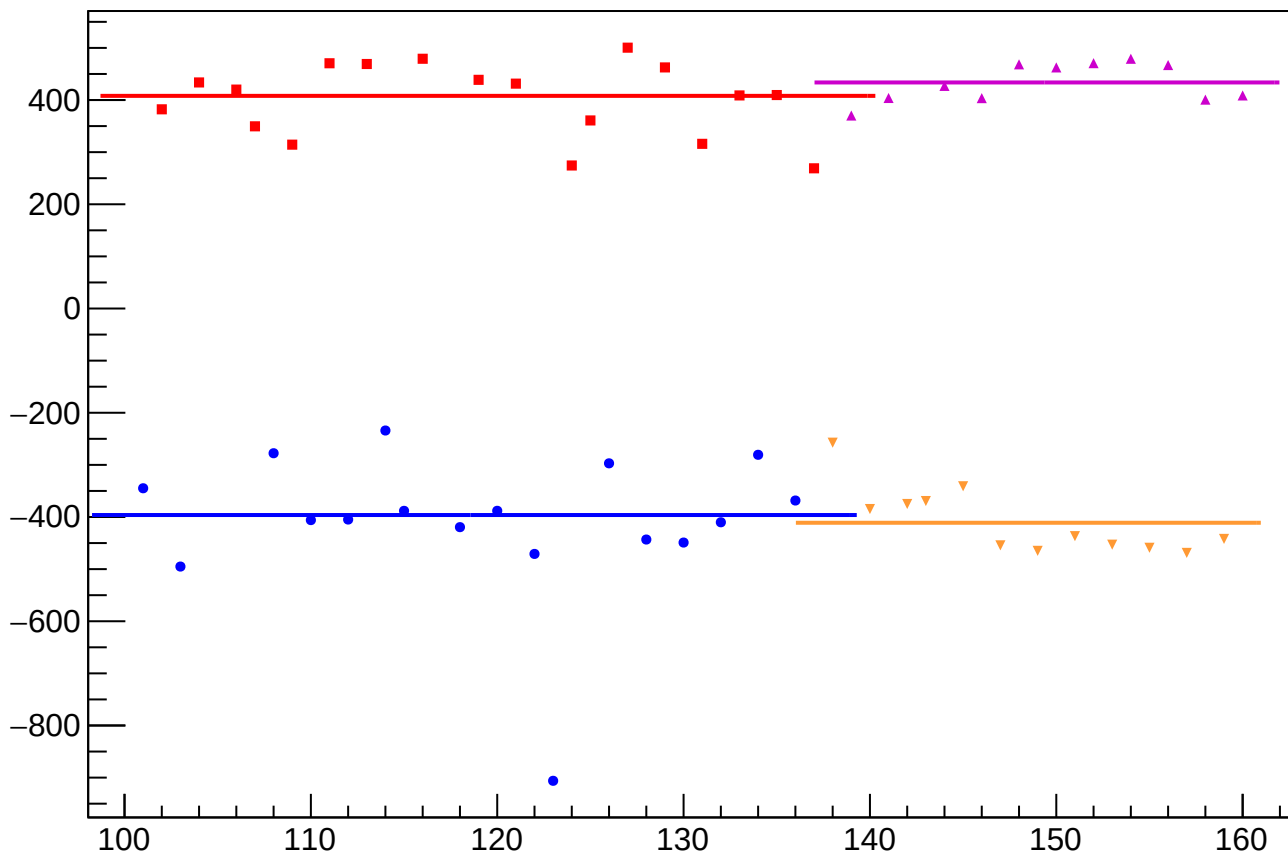
Right In: 7.031+/-0.000  $\chi^2/\text{NDF}$ : 18686972393169306014765519518826496.0/16  
 Left Out: 5.434+/-0.000  $\chi^2/\text{NDF}$ : 1641961615493557983490036107051008.0/11  
 Right Out: -6.568+/-0.000  $\chi^2/\text{NDF}$ : 13908005278630821419370553666437120.0/17  
 Left In: -5.842+/-0.000  $\chi^2/\text{NDF}$ : 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 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\_11X12X\_coil7\_mean vs Slug, Sign Corrected



Right In: -396.205+/-0.000

Left Out: -411.042+/-0.000

Right Out: 408.004+/-0.000

Left In: 433.711+/-0.000

$\chi^2/\text{NDF}$ : 3915339787327324310697642459645607936.0/16

$\chi^2/\text{NDF}$ : 3555989077784945680272383641089212416.0/11

$\chi^2/\text{NDF}$ : 2700413725595197389596215208912617472.0/17

$\chi^2/\text{NDF}$ : 1189526132627930234621779098826964992.0/10

Left: 16.838+/-0.000  $\chi^2/\text{NDF}$ : 3333065556726431.0/16

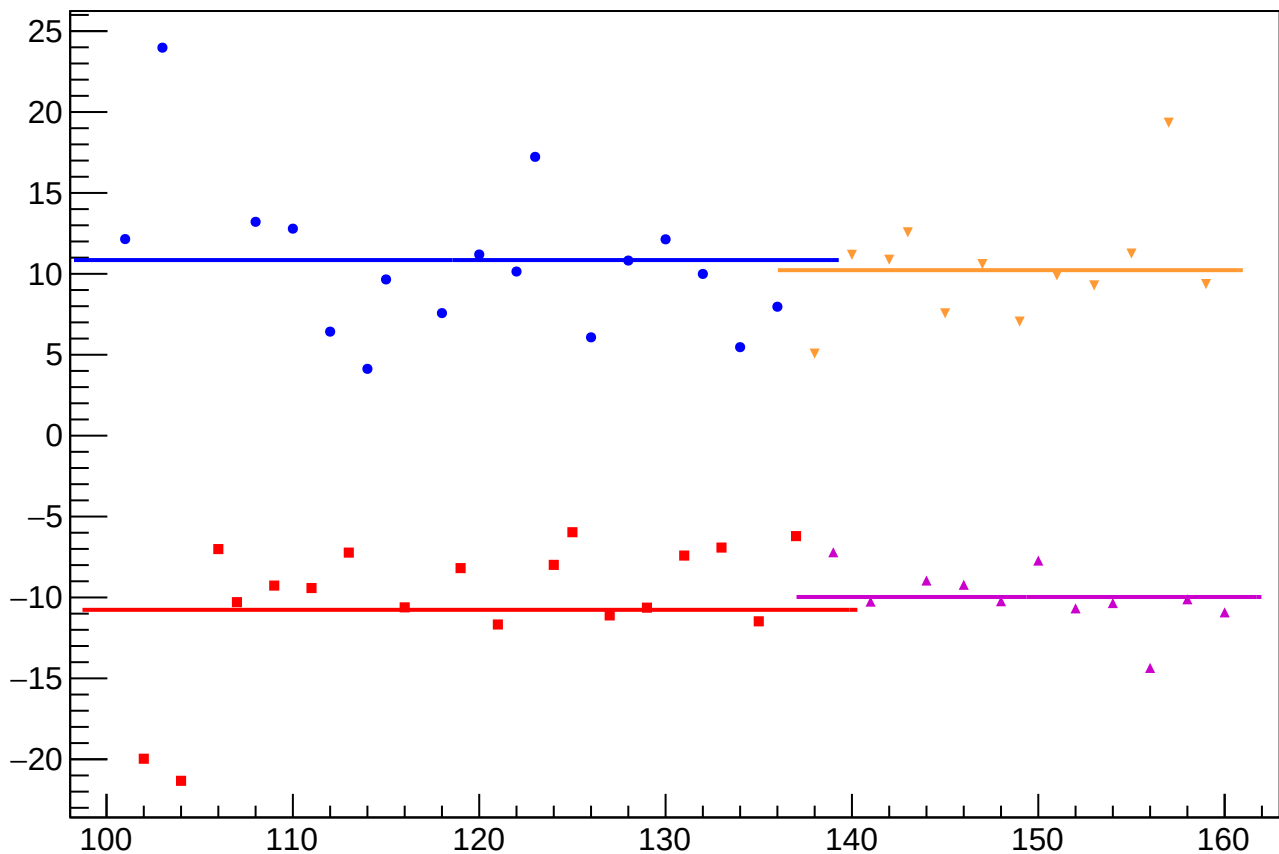
Right: 11.893+/-0.000  $\chi^2/\text{NDF}$ : 2343837724637462.0/16

In: 79.709+/-0.000  $\chi^2/\text{NDF}$ : 279213003883537718.0/16

Out: -50.440+/-0.000  $\chi^2/\text{NDF}$ : 2747299205815523.0/16

All: 14.695+/-0.000  $\chi^2/\text{NDF}$ : 5677098484078.0/16

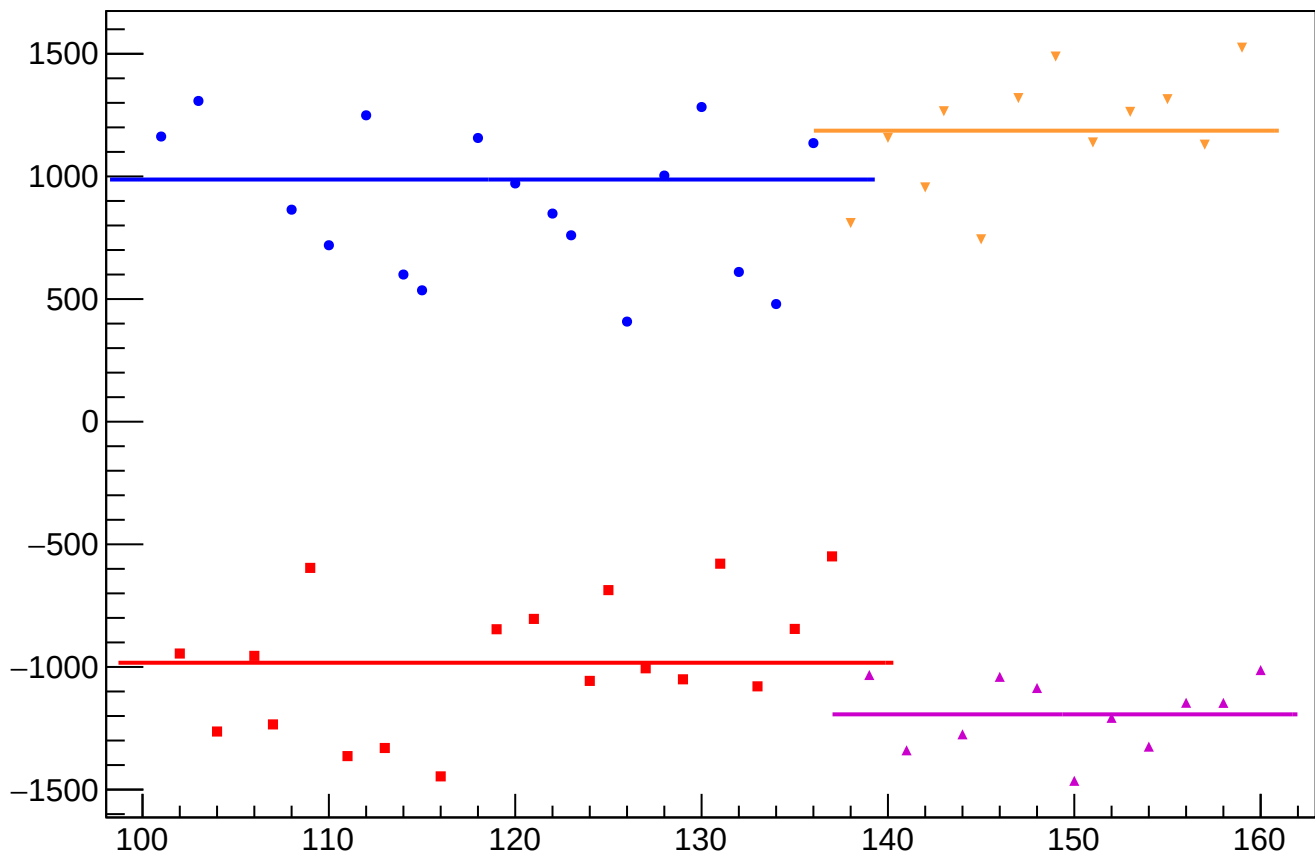
dit\_11X12X\_coil7\_err\_mean vs Slug, Sign Corrected



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 Out: 1186.594+/-0.000

$\chi^2/\text{NDF}$ : 49763362019555548841298308984106647552.0/11

Right Out: -982.831+/-0.000

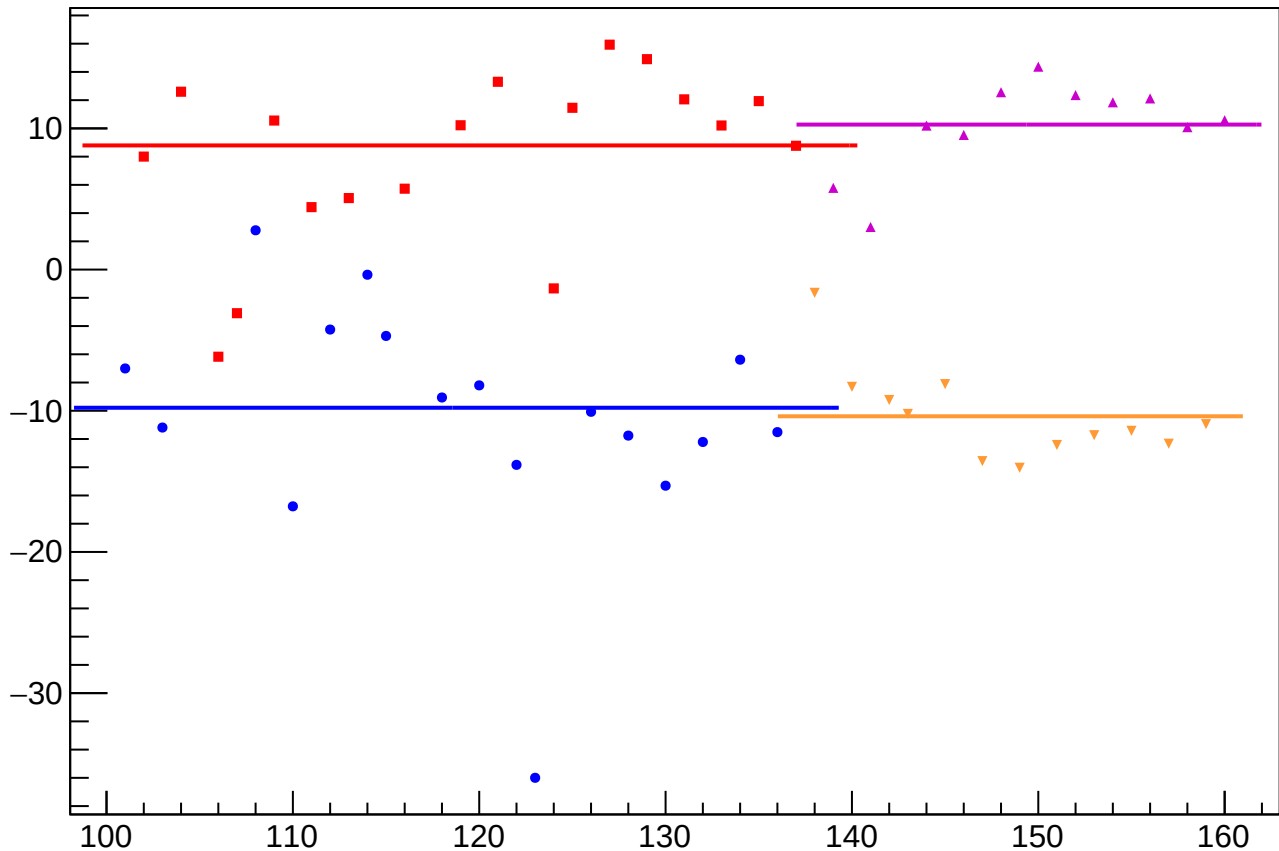
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_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

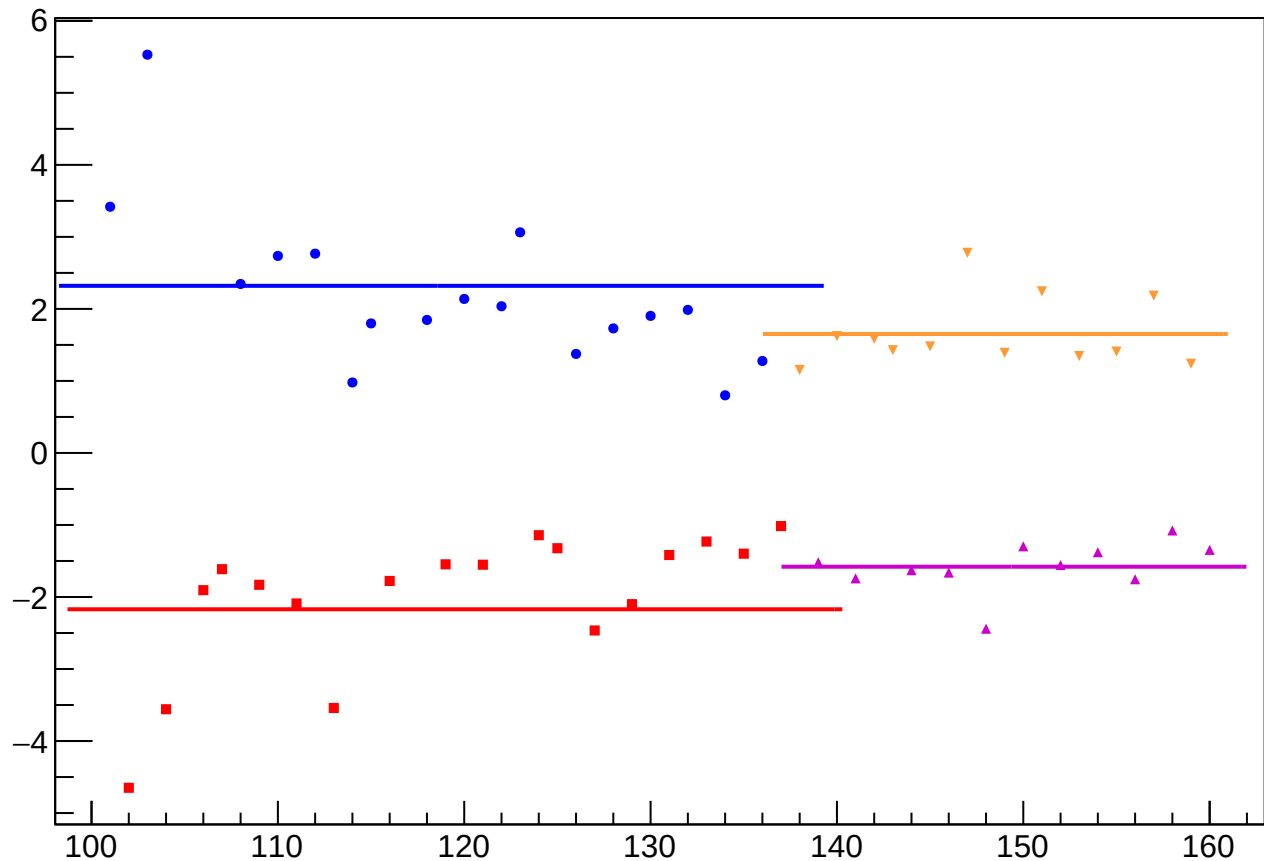
$\chi^2/\text{NDF}$ : 21979472889395409230974985175040000.0/17

Left In: 10.271+/-0.000

$\chi^2/\text{NDF}$ : 9001548873812579955640597255028736.0/10

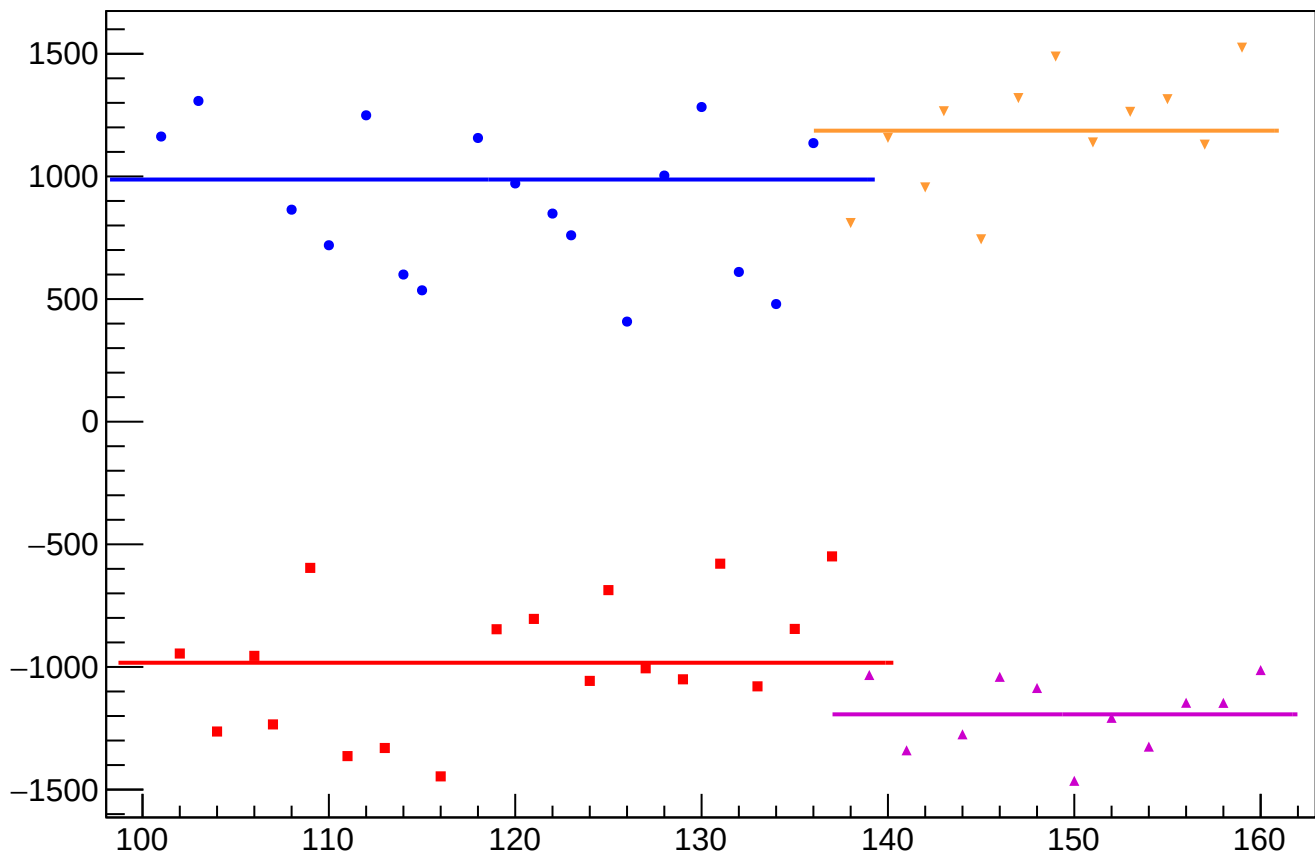
All: -0.113+/-0.000  $\chi^2/\text{NDF}$ : 3761009854551

dit\_4aY\_coil7\_err\_mean vs Slug, Sign Corrected



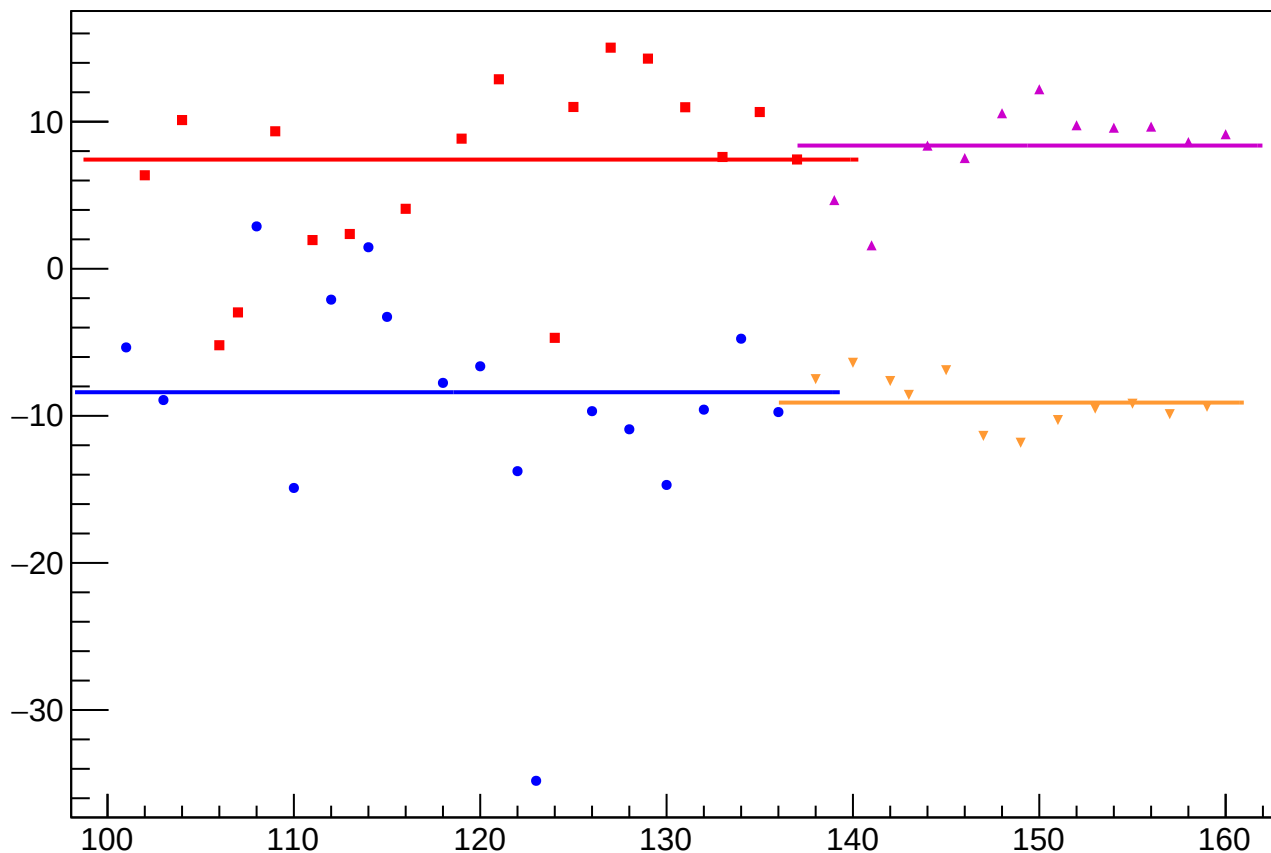
Right In: 2.320 $\pm$ 0.000  $\chi^2$ /NDF: 951785069007432203128626661556224.0/16  
 Left Out: 1.651 $\pm$ 0.000  $\chi^2$ /NDF: 204626857159139136985355773804544.0/11  
 Right Out: -2.171 $\pm$ 0.000  $\chi^2$ /NDF: 756432905902484239494035607126016.0/17  
 Left In: -1.580 $\pm$ 0.000  $\chi^2$ /NDF: 104047648288543214499863879221248.0/10  
 All: 0.026 $\pm$ 0.000  $\chi^2$ /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: -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\_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

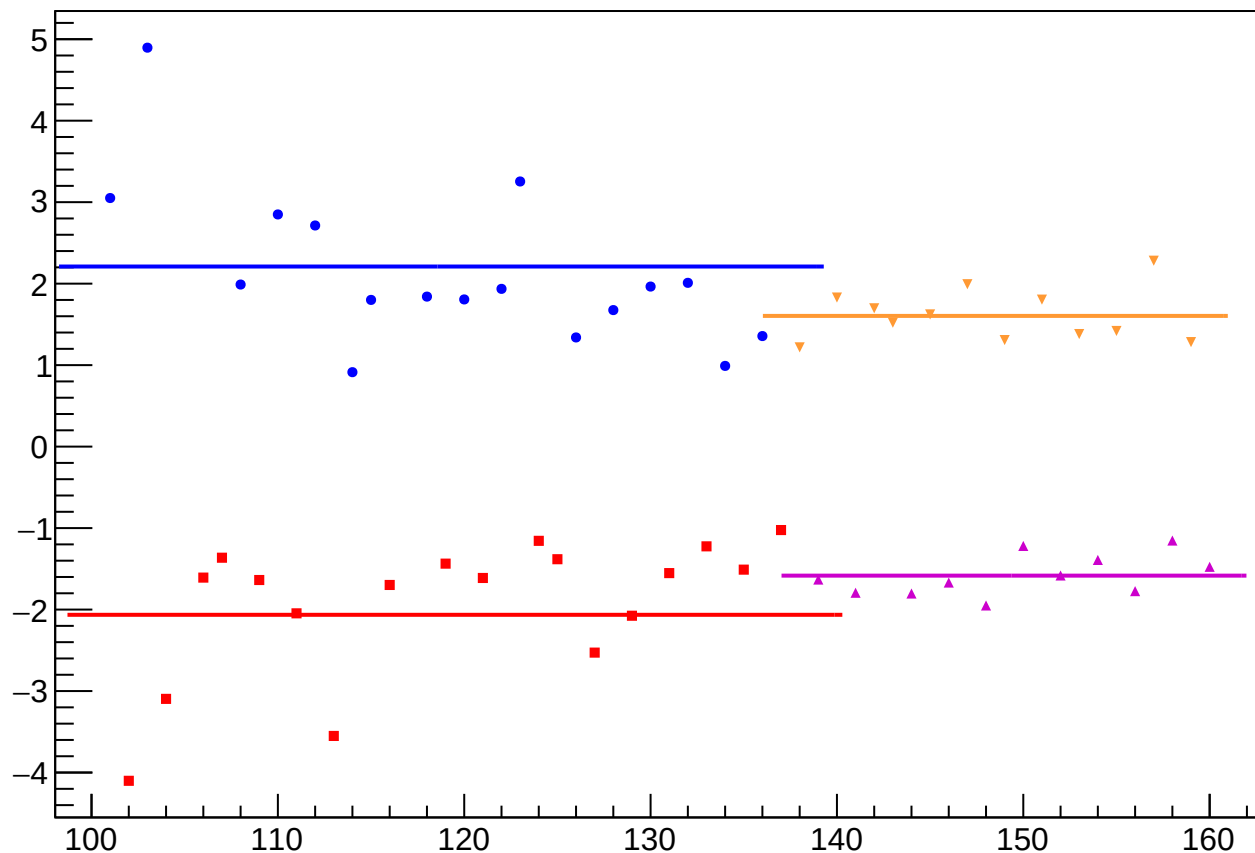
Right: -0.368+/-0.000  $\chi^2/\text{NDF}$ : 1270158104740330

In: 1.223+/-0.000  $\chi^2/\text{NDF}$ : 1367022219135136957

Out: -1.824+/-0.000  $\chi^2/\text{NDF}$ : 13318531128418368

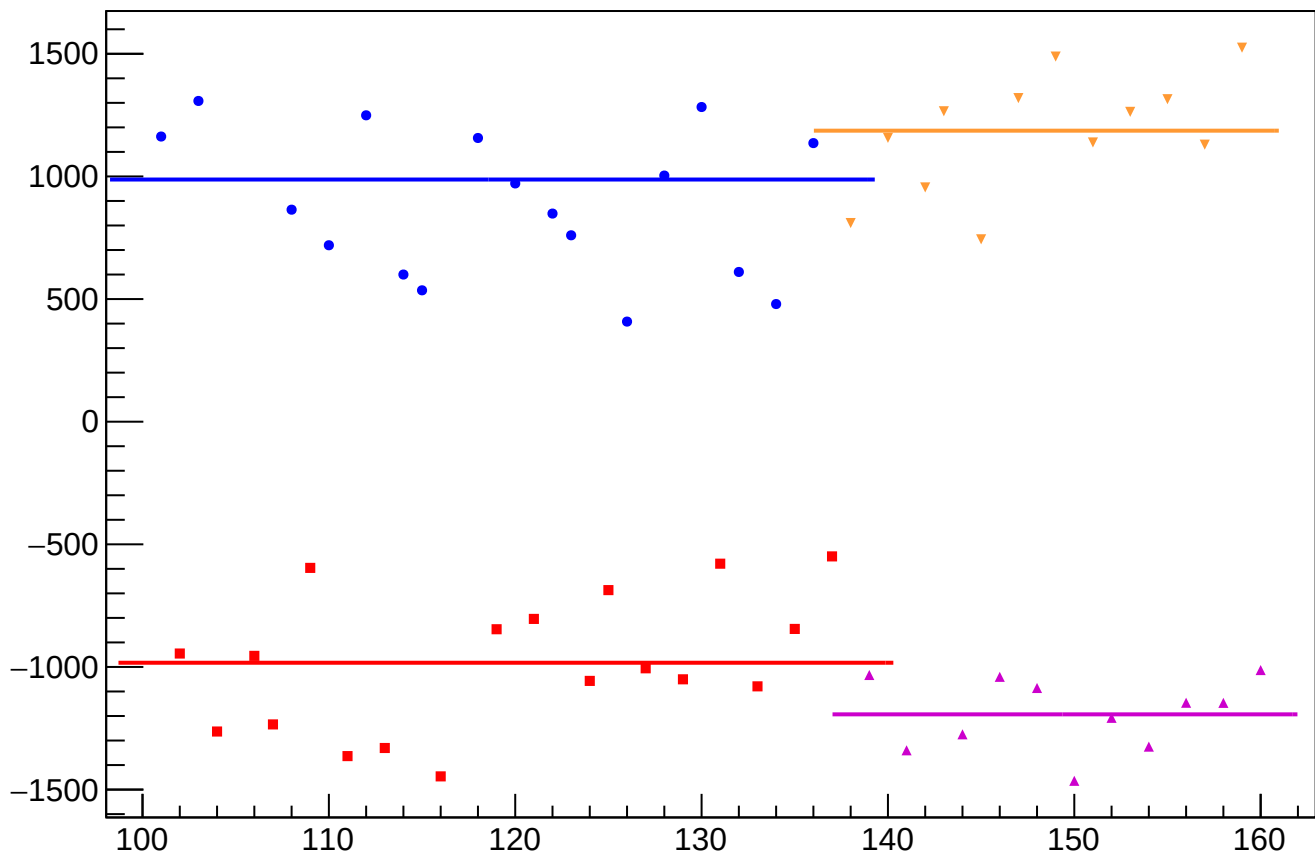
All: -0.299+/-0.000  $\chi^2/\text{NDF}$ : 2774358772203

dit\_4eY\_coil7\_err\_mean vs Slug, Sign Corrected



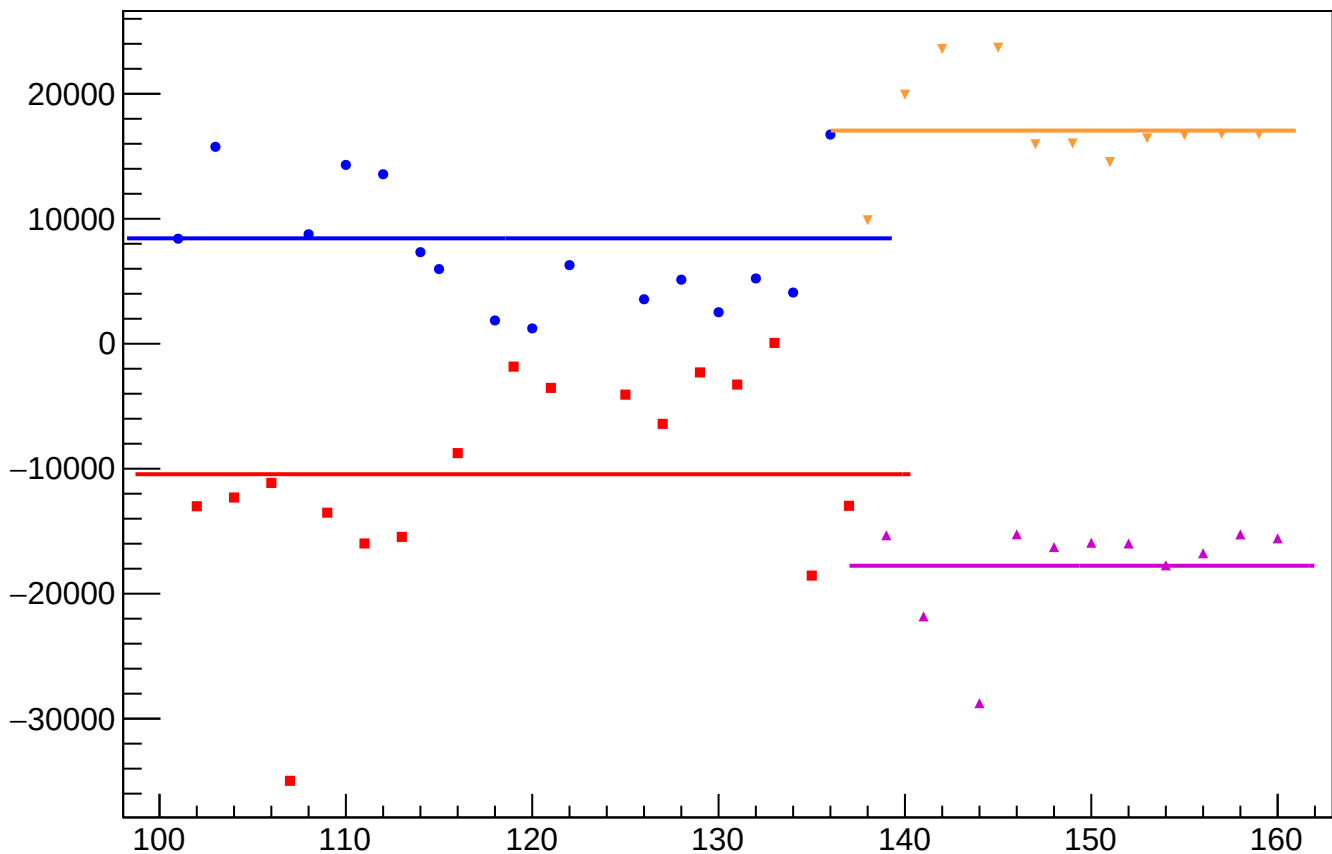
Right In:  $2.210 \pm 0.000$   $\chi^2/\text{NDF}: 685219894303103753186103173054464.0/16$   
 Left Out:  $1.604 \pm 0.000$   $\chi^2/\text{NDF}: 88134442876960203086974867734528.0/11$   
 Right Out:  $-2.064 \pm 0.000$   $\chi^2/\text{NDF}: 574315722841914805756407412948992.0/17$   
 Left In:  $-1.583 \pm 0.000$   $\chi^2/\text{NDF}: 54376045146817744012212281802752.0/10$   
 All:  $0.012 \pm 0.000$   $\chi^2/\text{NDF}: 12516655106587$

dit\_4eY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

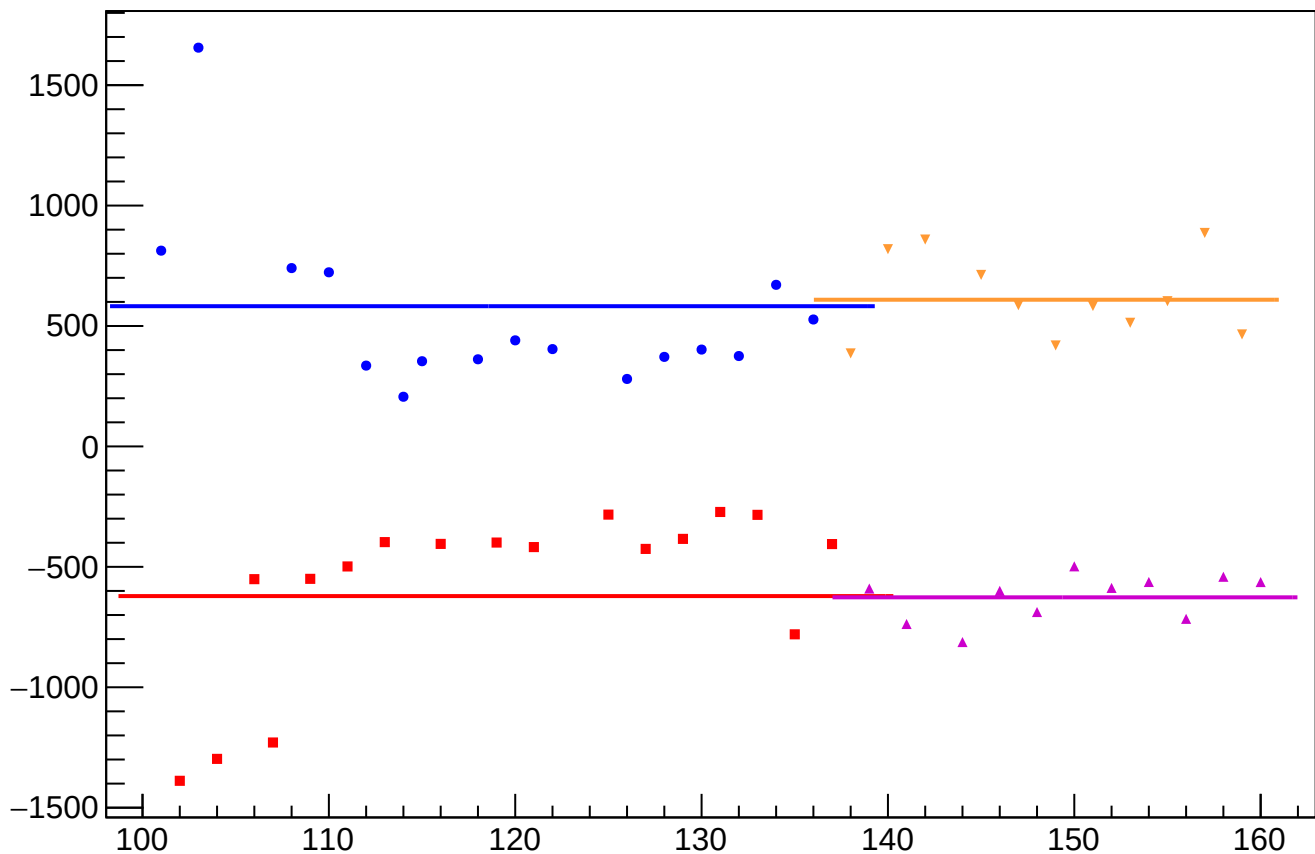
# dit\_usl\_coil7\_mean vs Slug, Sign Corrected



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

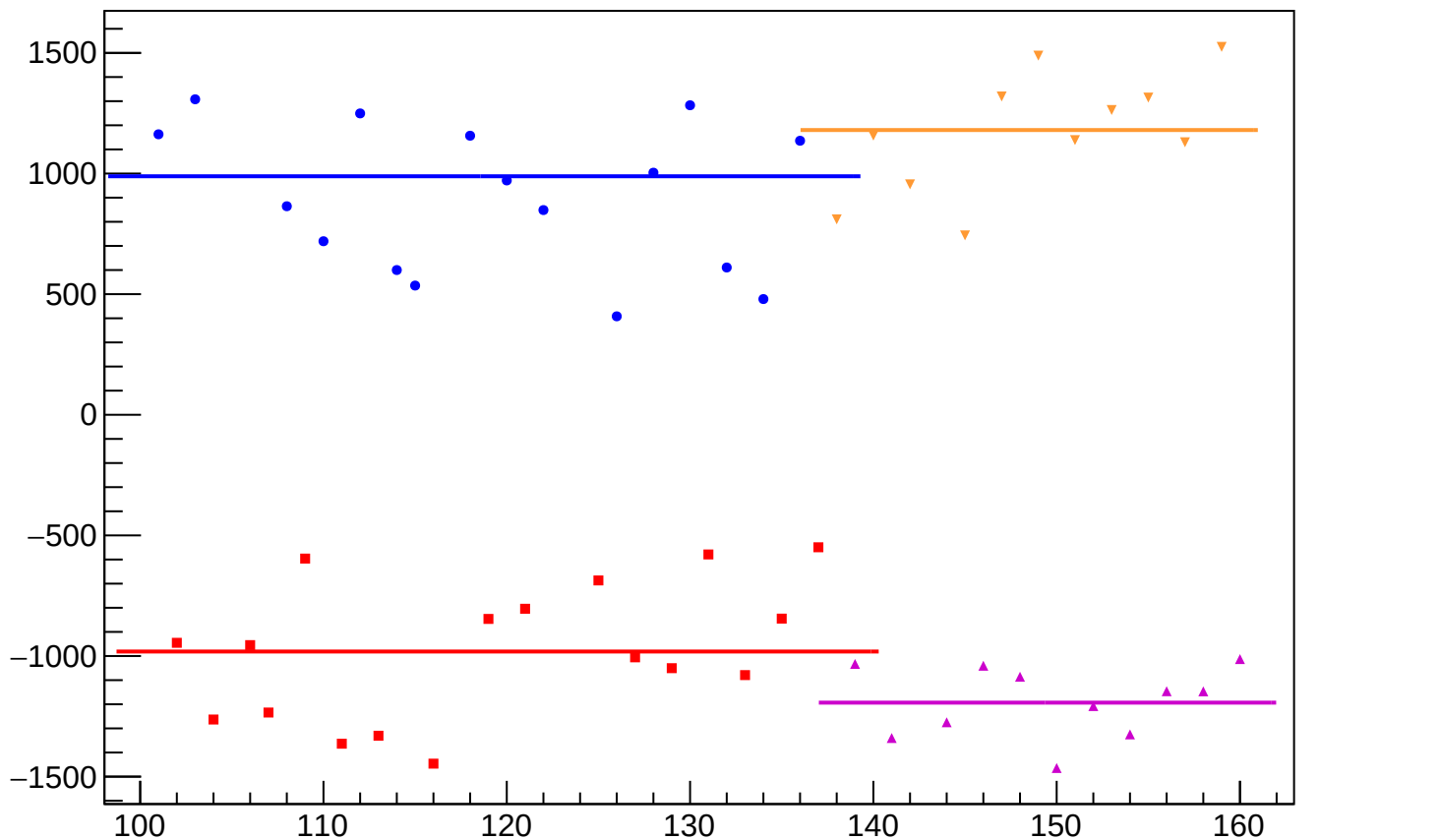
Right: -24.369+/-0.000  $\chi^2/\text{NDF}$ : 695441277498736

In: -112.697+/-0.000  $\chi^2/\text{NDF}$ : 6803947133451579

Out: 50.038+/-0.000  $\chi^2/\text{NDF}$ : 70064415971777849

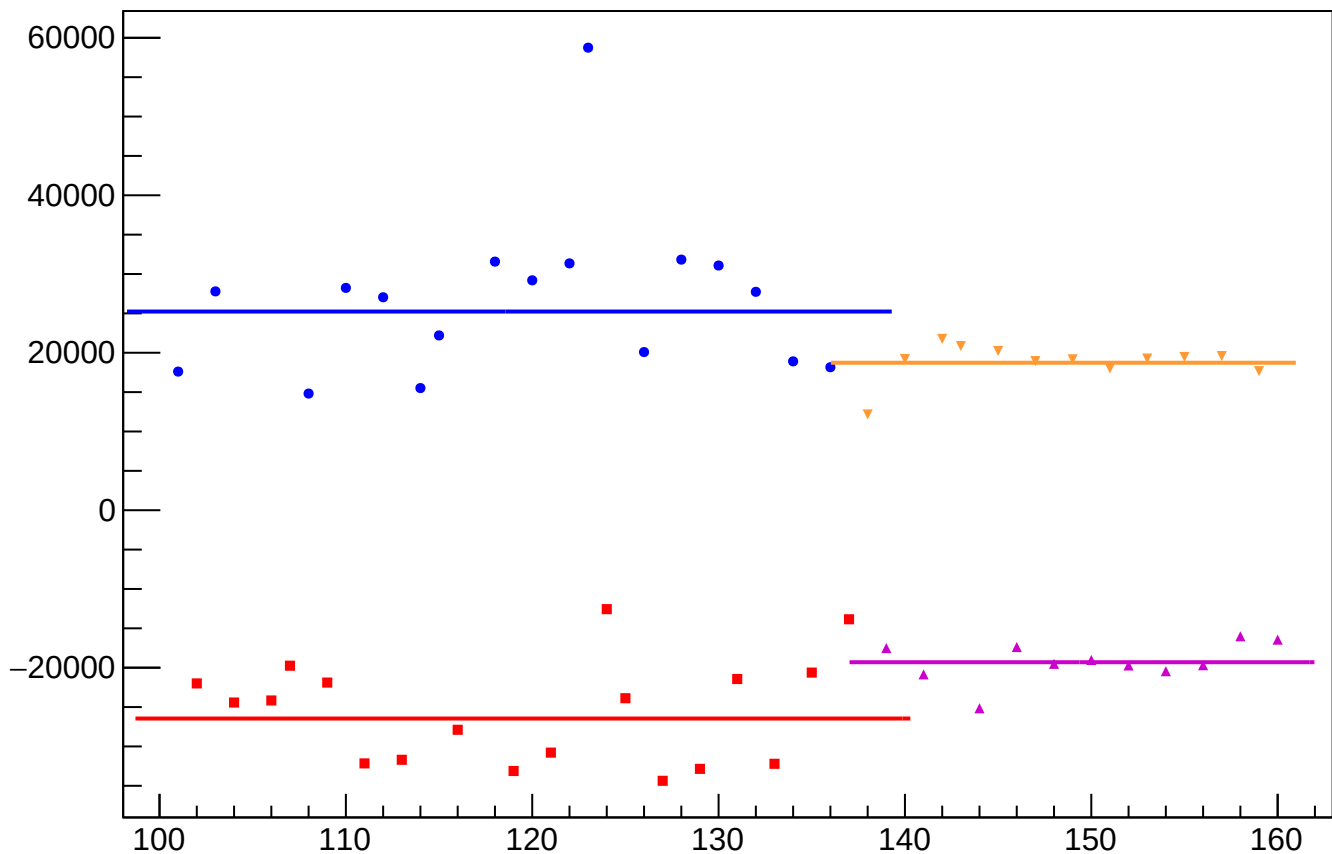
All: -33.386+/-0.000  $\chi^2/\text{NDF}$ : 140198658530

dit\_usl\_coil7\_Ndata\_mean vs Slug, Sign Corrected



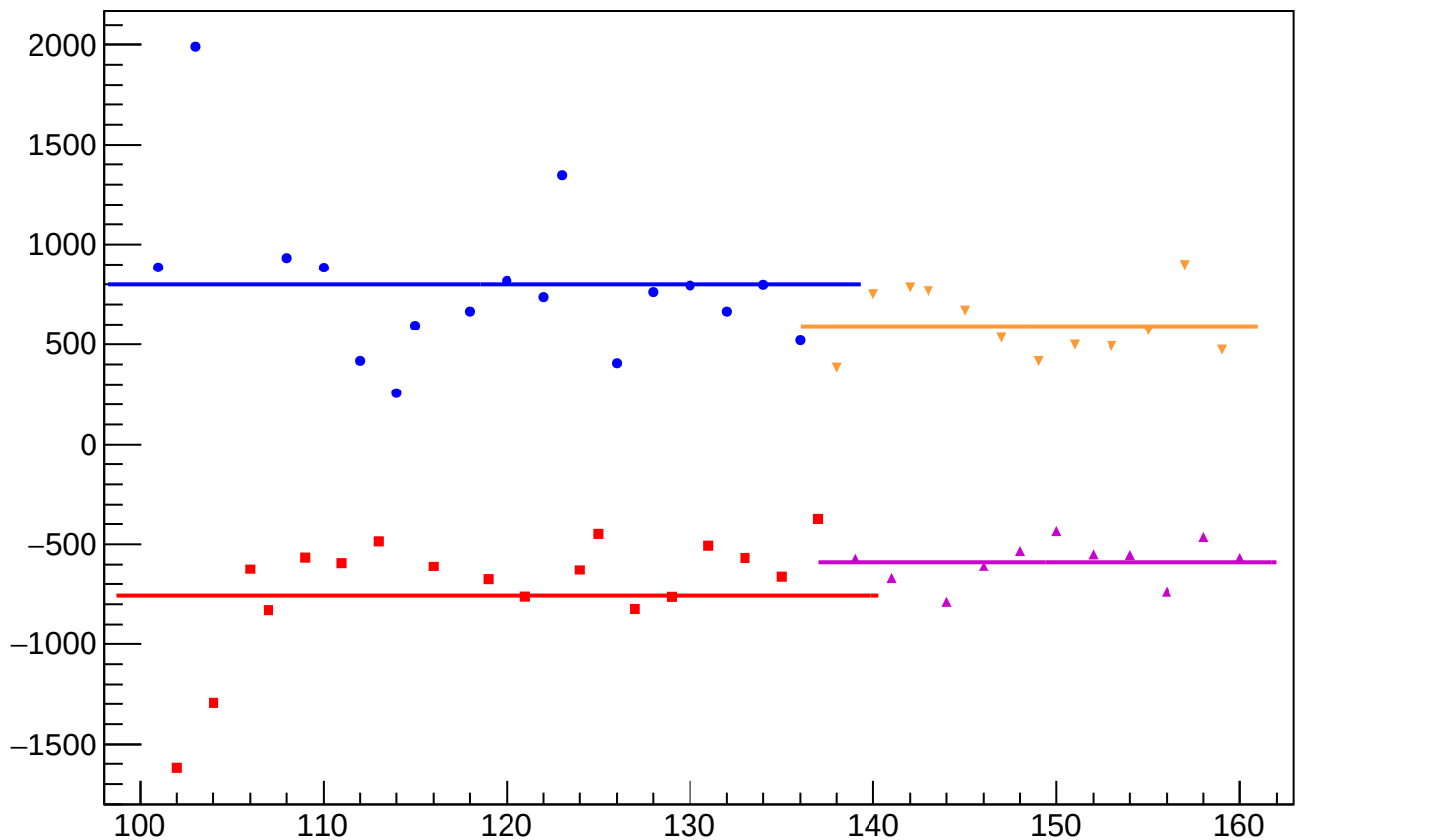
Left:  $-67.307 \pm 0.000$   $\chi^2/\text{NDF}: 2561394270983440$   
 Right In:  $988.706 \pm 0.000$   $\chi^2/\text{NDF}: 52363367379197496459026096064200441856.0/15$   
 Right:  $-4.113 \pm 0.000$   $\chi^2/\text{NDF}: 1449969615524364$   
 Left Out:  $1180.302 \pm 0.000$   $\chi^2/\text{NDF}: 49311054965426356670958856612989632512.0/10$   
 In:  $-265.605 \pm 0.000$   $\chi^2/\text{NDF}: 1959493225674672$   
 Right Out:  $-981.352 \pm 0.000$   $\chi^2/\text{NDF}: 48028000110939353209143459445919973376.0/16$   
 Out:  $198.241 \pm 0.000$   $\chi^2/\text{NDF}: 1884799960045046$   
 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



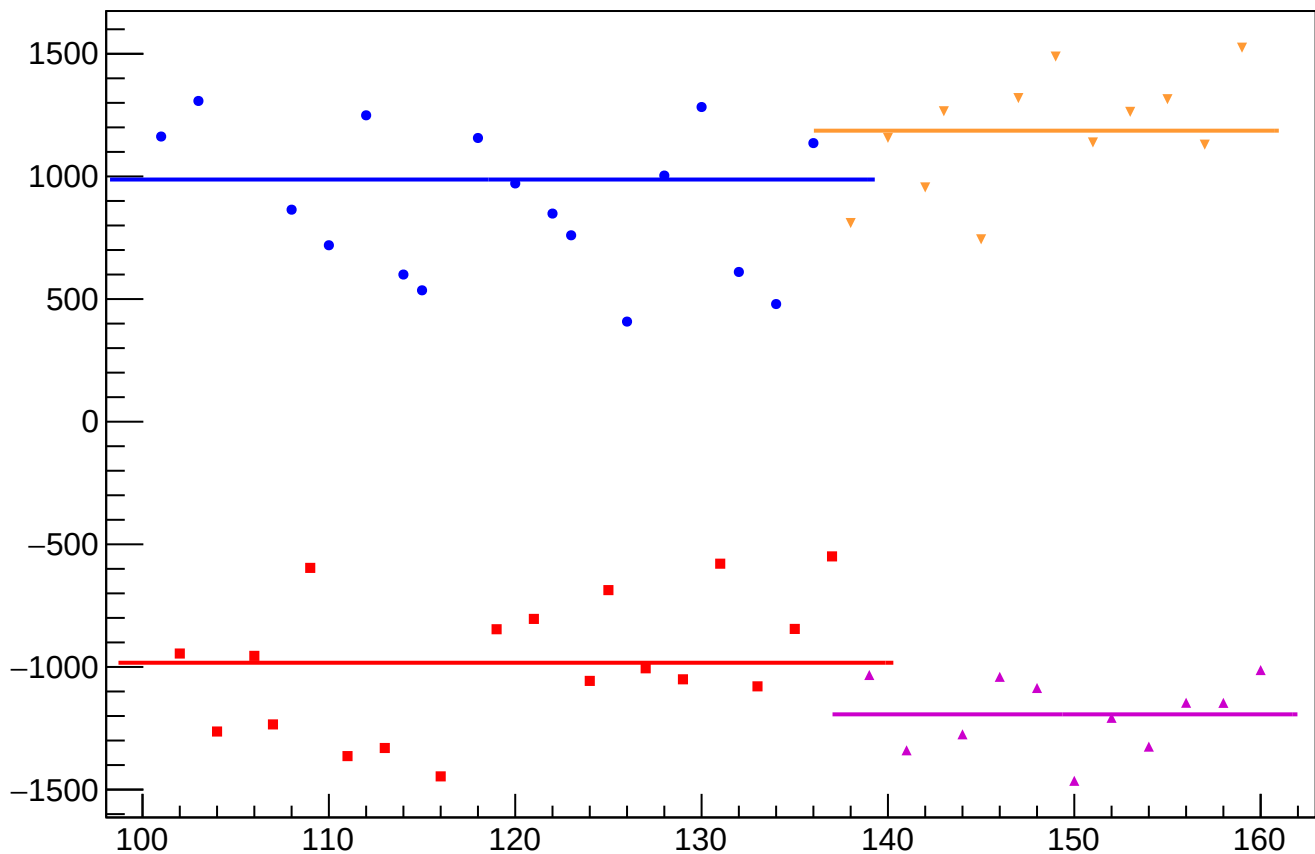
Right In: 25236.317+/-0.000  $\chi^2/\text{NDF}$ : 29071522213059582283269412071648973029376.0/16  
 Left Out: 18733.088+/-0.000  $\chi^2/\text{NDF}$ : 4548859708795276009115062862764547506176.0/11  
 Right Out: -26455.988+/-0.000  $\chi^2/\text{NDF}$ : 24365500126615965846523683173160051539968.0/17  
 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



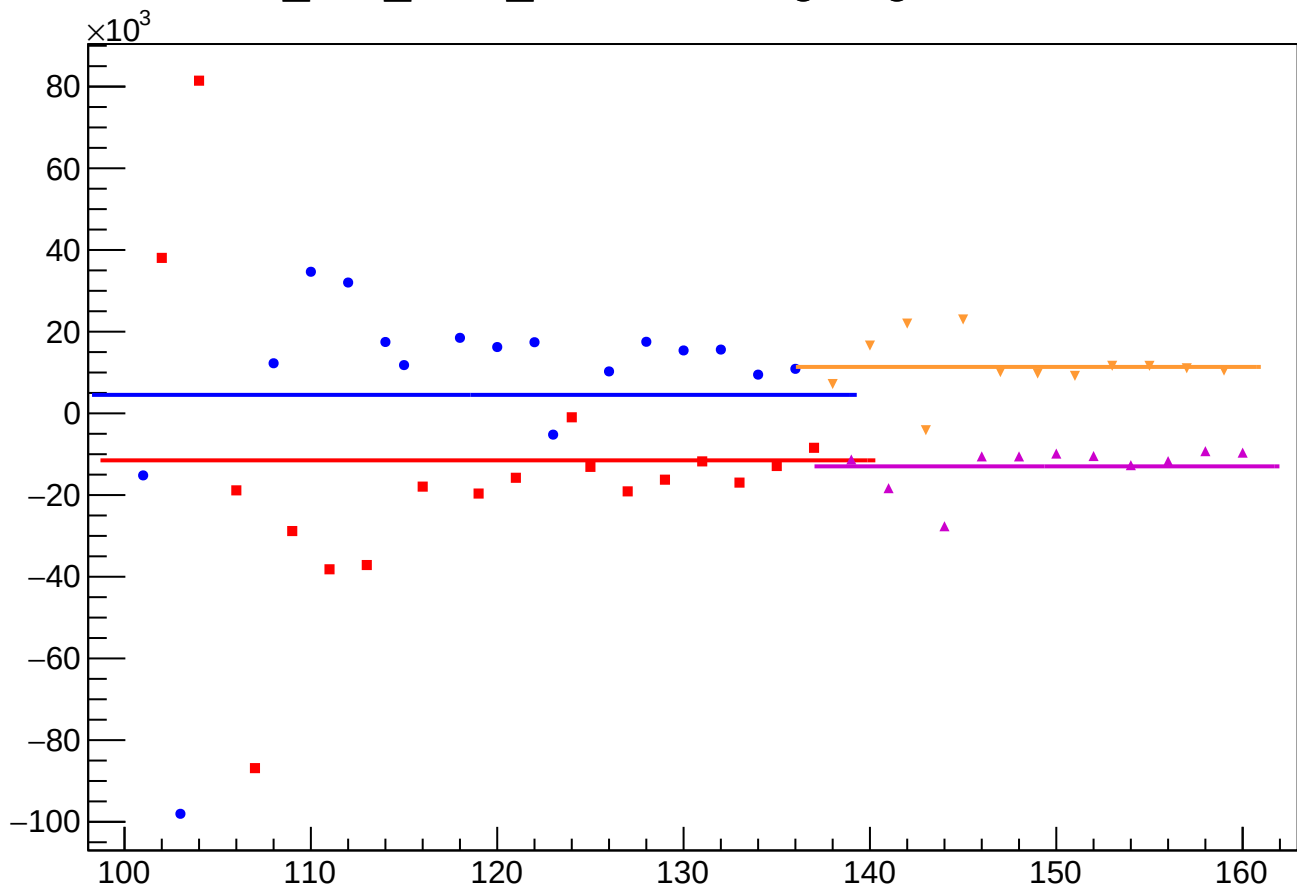
Right In: 799.524+/-0.000  $\chi^2/\text{NDF}$ : 112536154235498414231657645251770712064.0/16  
 Left Out: 591.628+/-0.000  $\chi^2/\text{NDF}$ : 22099670593221557738114196407951818752.0/11  
 Right Out: -757.193+/-0.000  $\chi^2/\text{NDF}$ : 76794158982285513543711222288246374400.0/17  
 Left In: -588.417+/-0.000  $\chi^2/\text{NDF}$ : 9911176401969663265546101605651185664.0/10  
 All: 0.699+/-0.000  $\chi^2/\text{NDF}$ : 17161176643386

dit\_usr\_coil7\_Ndata\_mean vs Slug, Sign Corrected



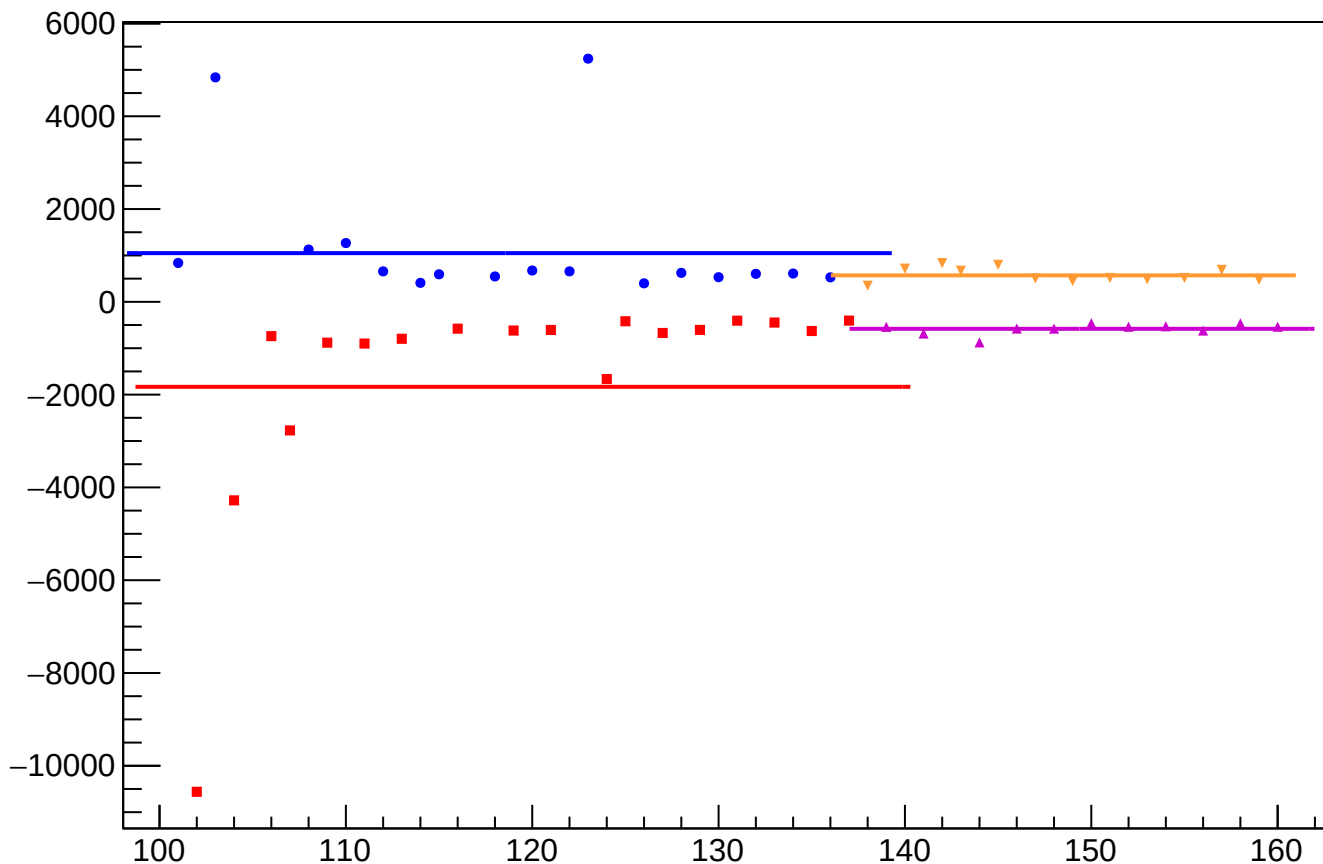
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: -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\_atl1\_coil7\_mean vs Slug, Sign Corrected



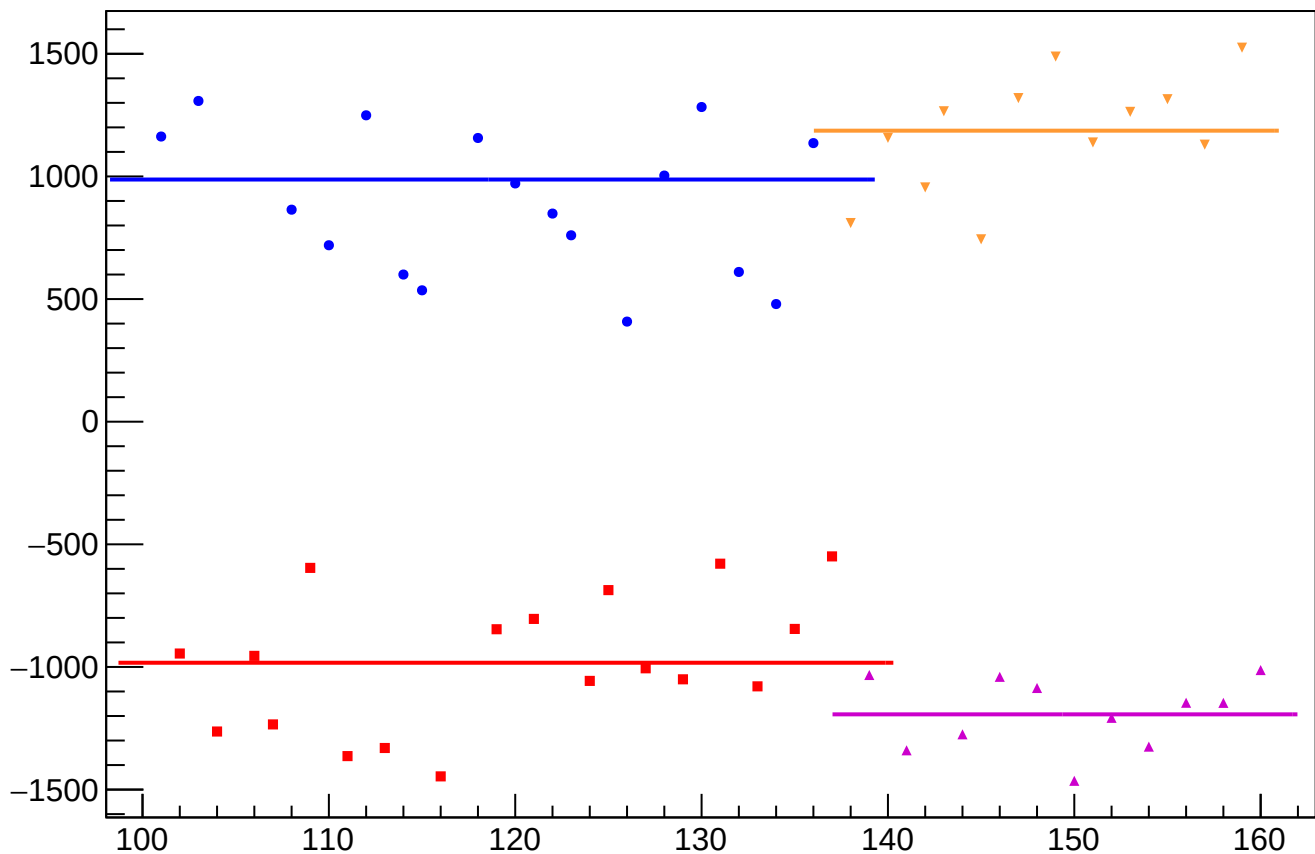
Left:  $-960.479 \pm 0.000$   $\chi^2/\text{NDF}: 335486095766420$   
 Right In:  $4528.489 \pm 0.000$   $\chi^2/\text{NDF}: 765984421186945141508299673026645807071232.0/16$   
 Right:  $-3606.875 \pm 0.000$   $\chi^2/\text{NDF}: 1734338684429$   
 Left Out:  $11369.972 \pm 0.000$   $\chi^2/\text{NDF}: 36208718267646883298044880734212432330752.0/11$   
 In:  $-5508.135 \pm 0.000$   $\chi^2/\text{NDF}: 914318515263744$   
 Right Out:  $-11503.298 \pm 0.000$   $\chi^2/\text{NDF}: 877839720750399952947204251622051720200192.0/17$   
 Out:  $1299.536 \pm 0.000$   $\chi^2/\text{NDF}: 112343094561766$   
 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



Right In: 1049.780+/-0.000  $\chi^2/\text{NDF}$ : 1038421858157169578640574748223478956032.0/16  
 Left Out: 570.856+/-0.000  $\chi^2/\text{NDF}$ : 18128369827839480022049807034159726592.0/11  
 Right Out: -1831.763+/-0.000  $\chi^2/\text{NDF}$ : 5560667897153995144780835972954558824448.0/17  
 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

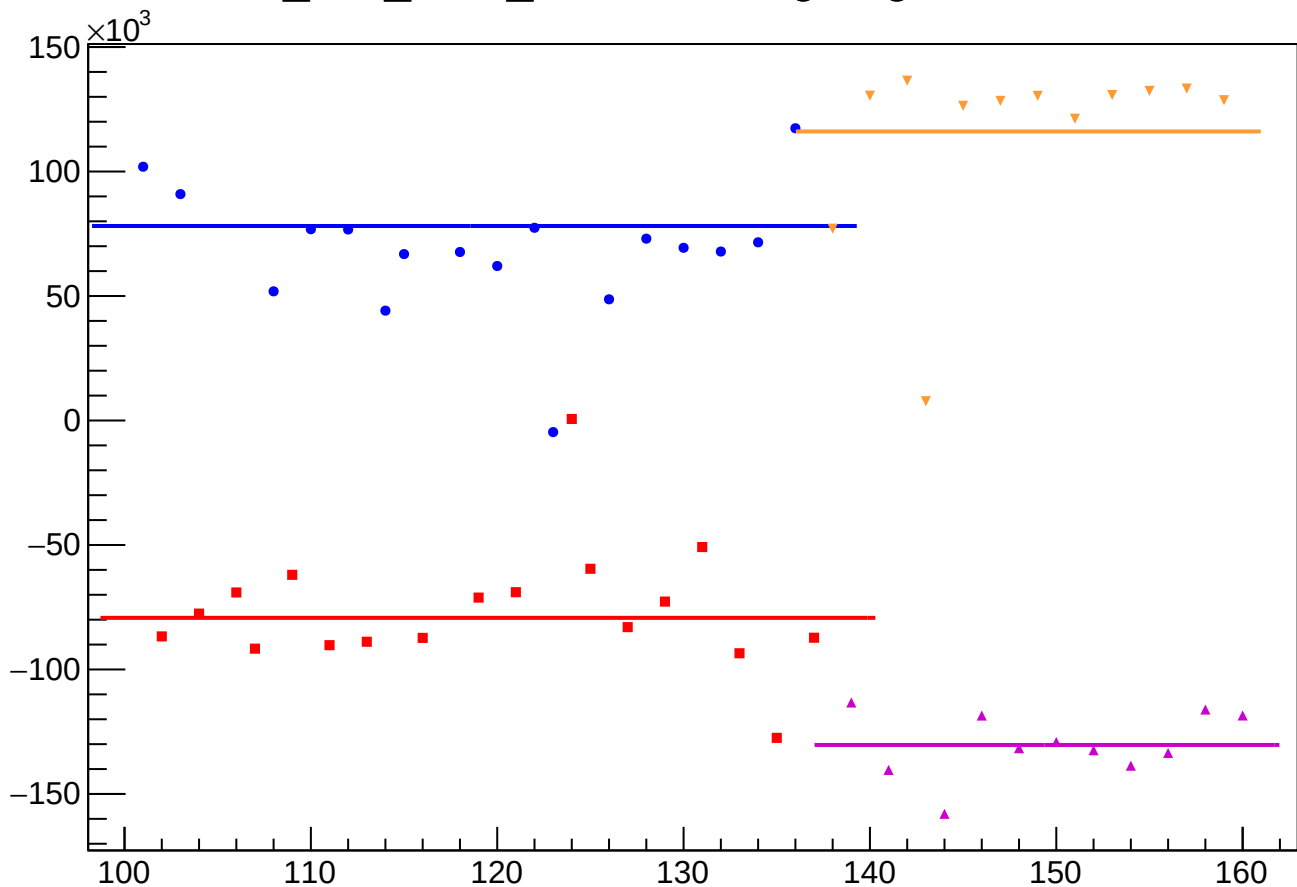
Left In: -1193.230 +/- 0.000

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

Left Out: 116083.925 $\pm$ 0.000

Right Out: -79260.499 $\pm$ 0.000

Left In: -130317.995 $\pm$ 0.000

$\chi^2$ /NDF: 308820964030920149649775995002991312633856.0/16

$\chi^2$ /NDF: 1055028859665678299066390828243571544424448.0/11

$\chi^2$ /NDF: 303215964703866066986504542190112711114752.0/17

$\chi^2$ /NDF: 147443434358857033174111826688008821669888.0/10

Left: -8722.259 $\pm$ 0.000  $\chi^2$ /NDF: 29156479686744

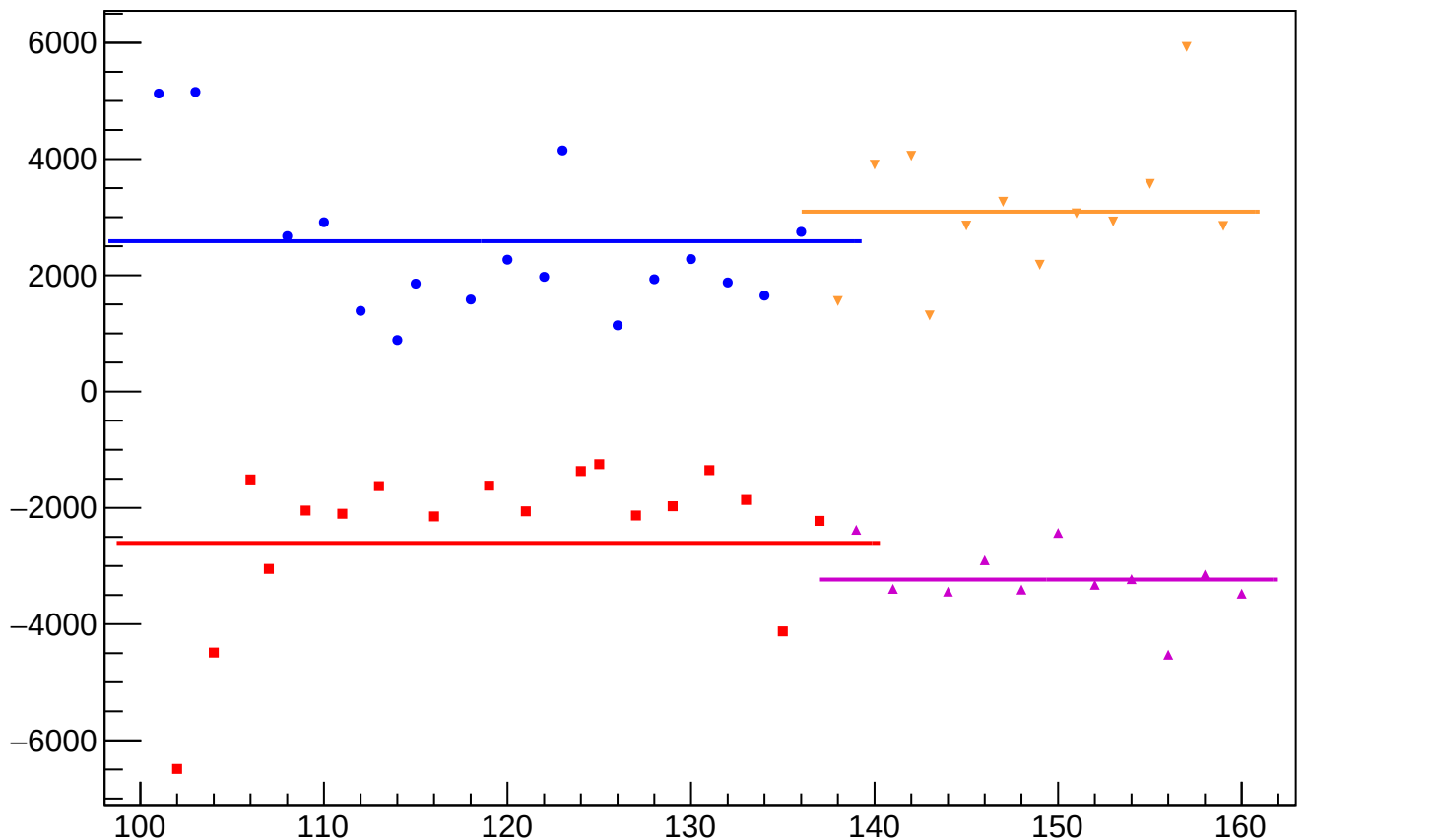
Right: -1742.952 $\pm$ 0.000  $\chi^2$ /NDF: 9334870875198

In: -41408.268 $\pm$ 0.000  $\chi^2$ /NDF: 17746793350482

Out: 30079.453 $\pm$ 0.000  $\chi^2$ /NDF: 16629893935480

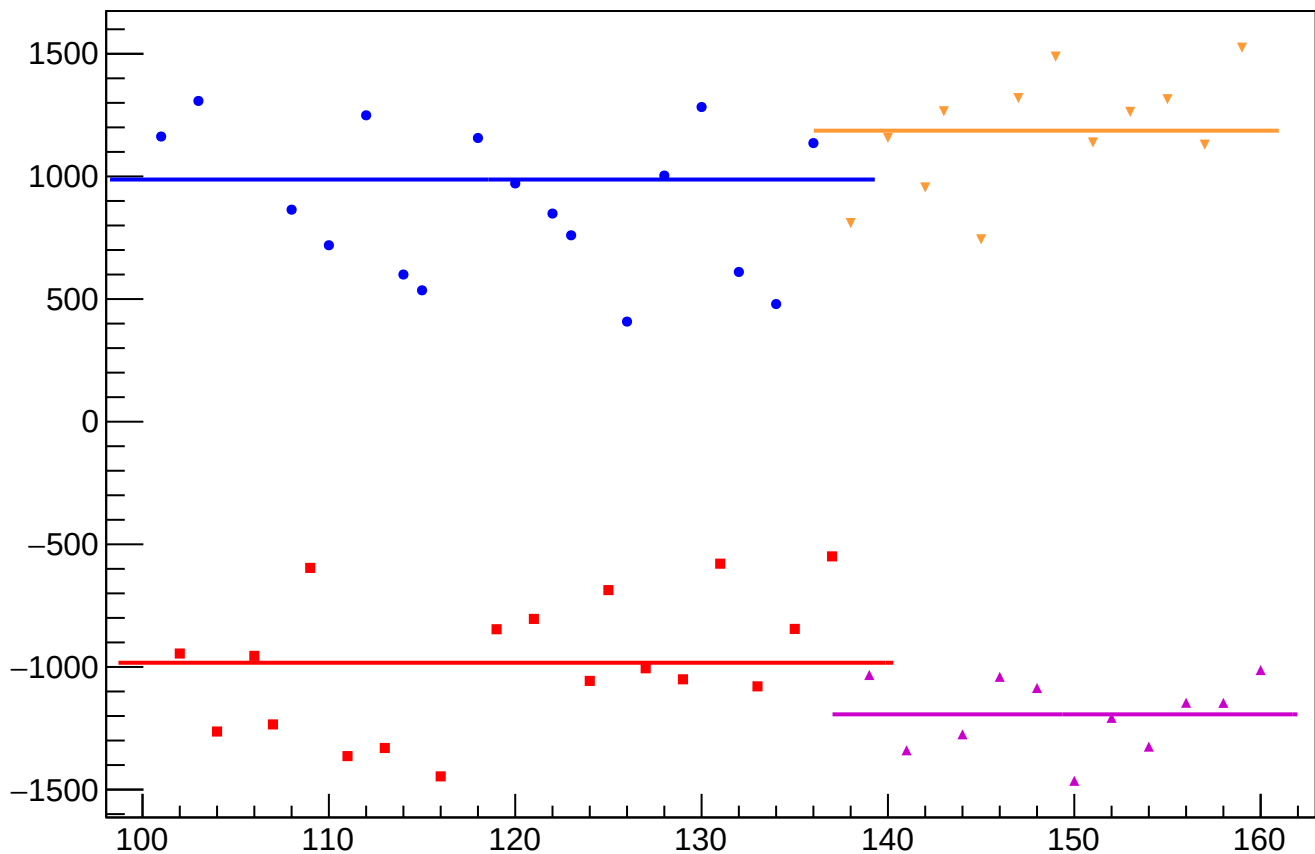
All: -5697.392 $\pm$ 0.000  $\chi^2$ /NDF: 3853023790

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



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

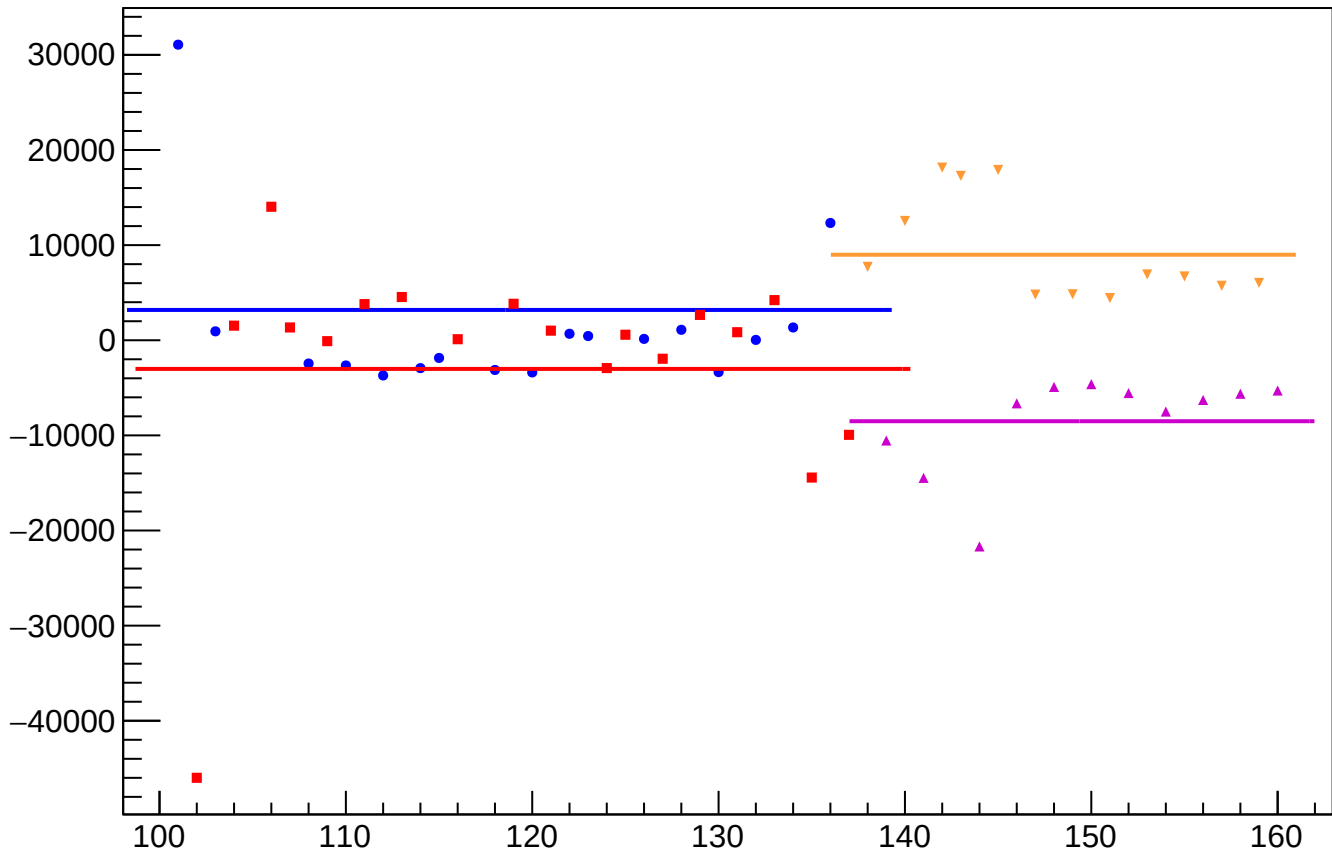
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_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

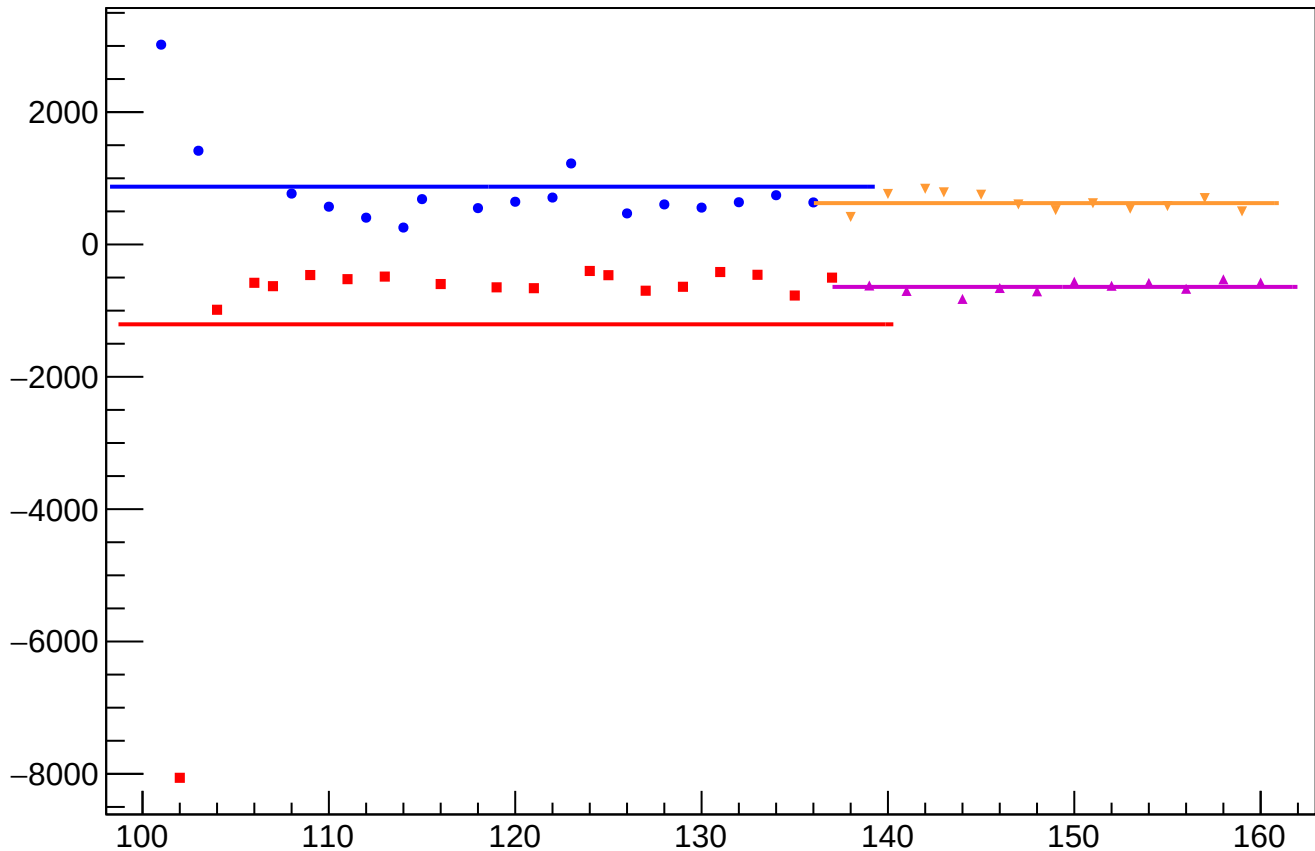
$\chi^2/\text{NDF}$ : 138157018088298657463529912150565226283008.0/17

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

Left: -16.410+/-0.000  $\chi^2/\text{NDF}$ : 7575167958835405

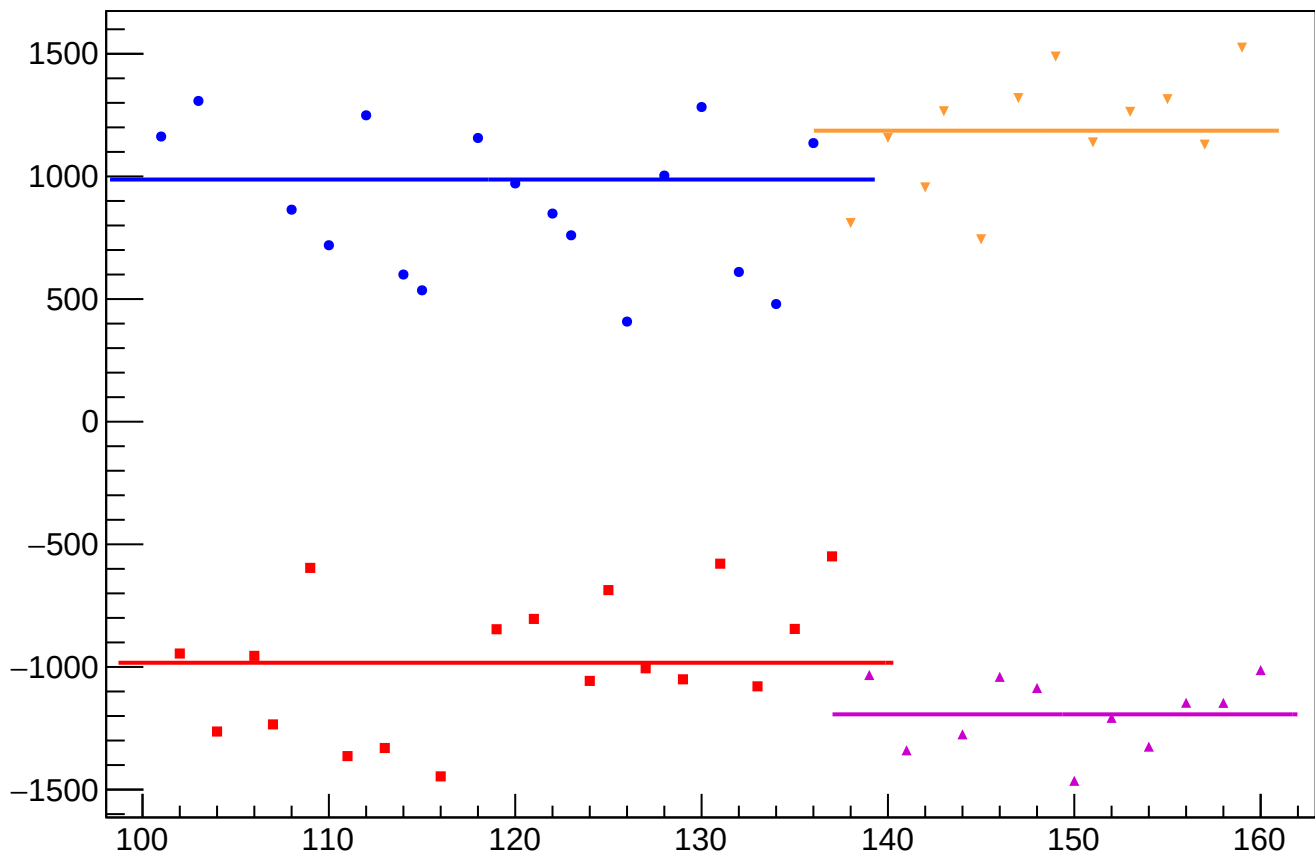
Right: -182.178+/-0.000  $\chi^2/\text{NDF}$ : 48440648254414

In: 4.850+/-0.000  $\chi^2/\text{NDF}$ : 1259811416123502900

Out: -181.532+/-0.000  $\chi^2/\text{NDF}$ : 433547407586540

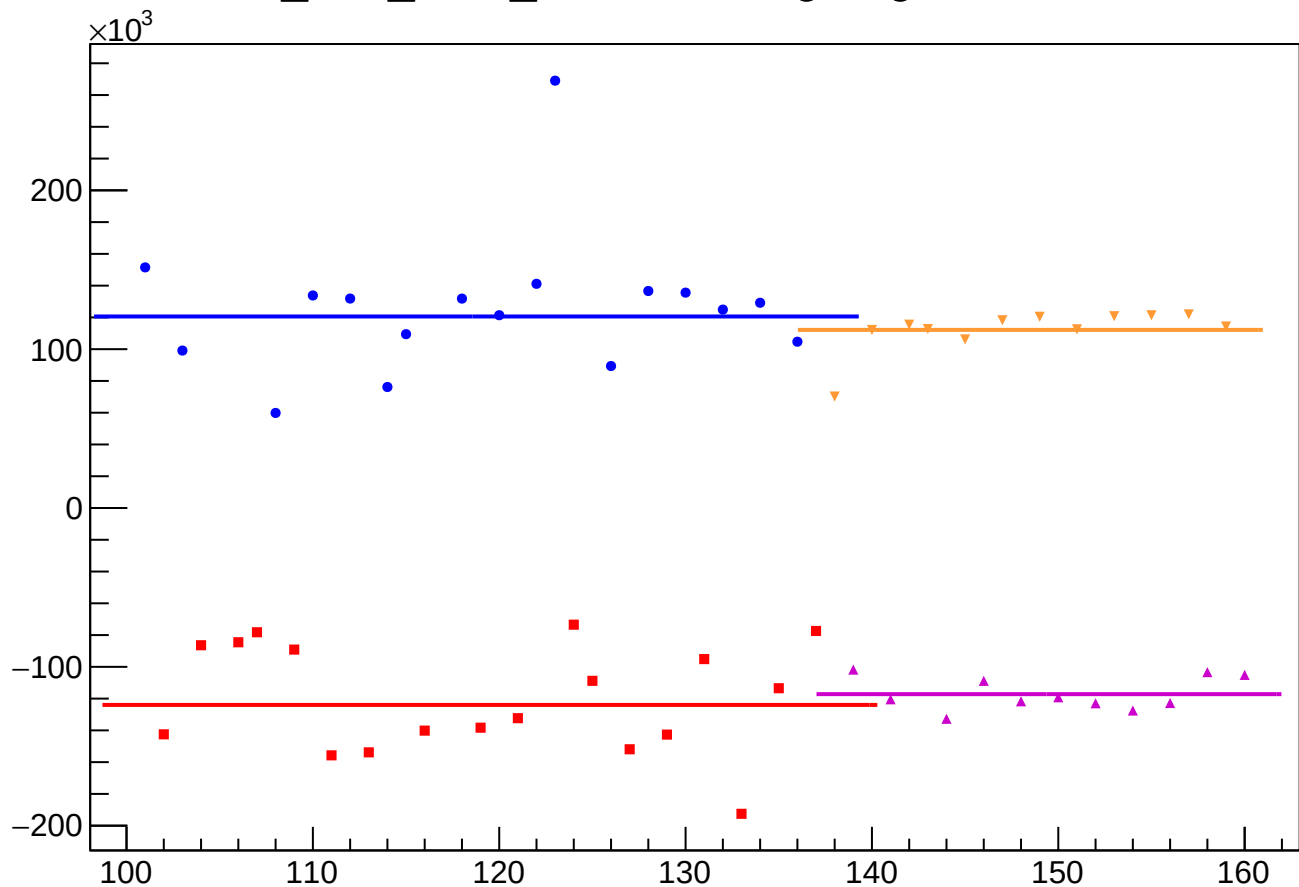
All: -88.255+/-0.000  $\chi^2/\text{NDF}$ : 562351898294

dit\_atr1\_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\_atr2\_coil7\_mean vs Slug, Sign Corrected



Right In: 120586.708 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 463702909226593065118055925390873188106240.0/16

Left Out: 112145.166 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 169803943899249833628115478004203597594624.0/11

Right Out: -123970.573 $\pm$ 0.000

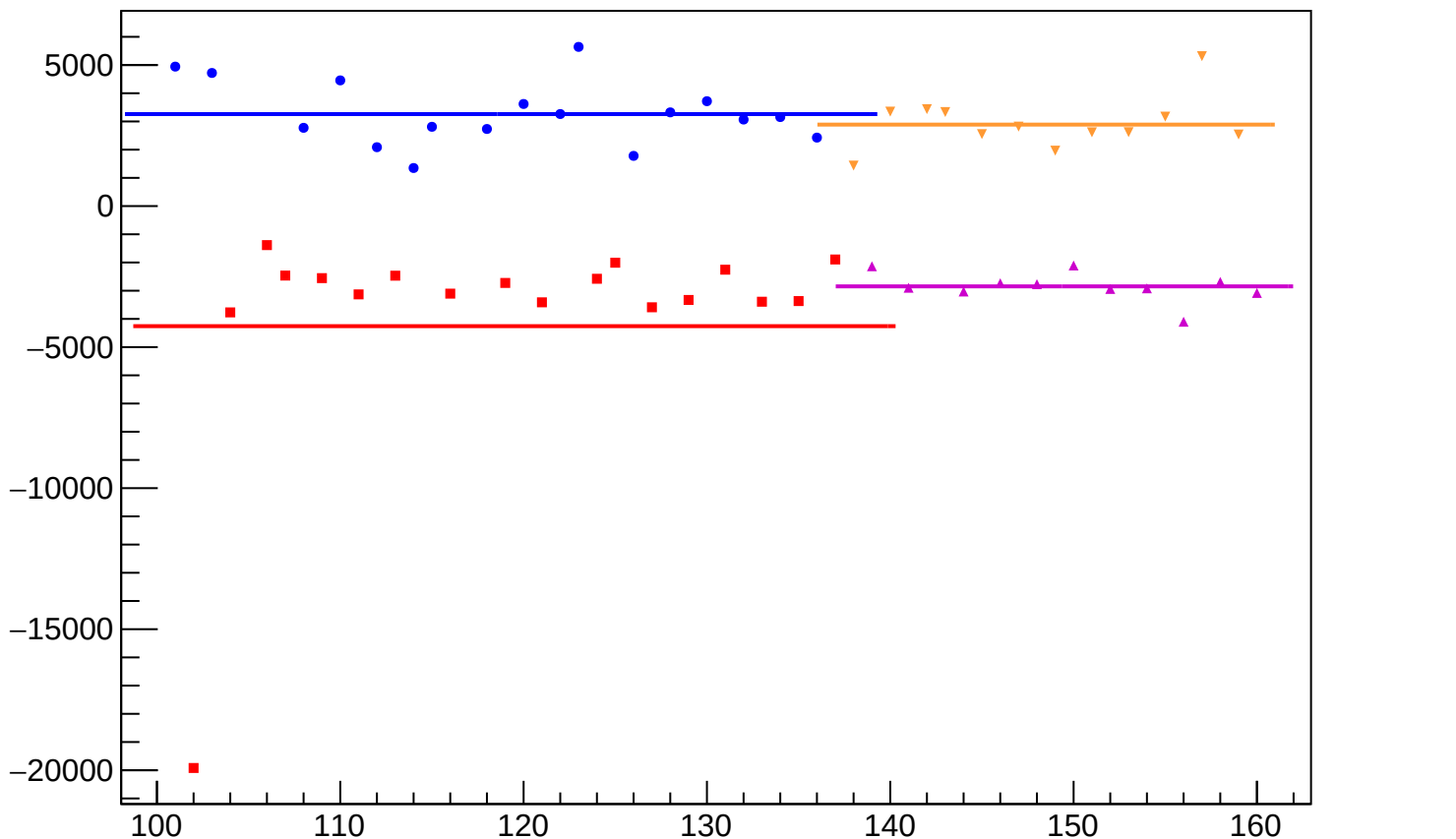
$\chi^2/\text{NDF}$ : 754871099831913254311543250015602251661312.0/17

Left In: -117187.281 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 92050085463575690364904587071982548287488.0/10

All: -3798.081 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4675854524

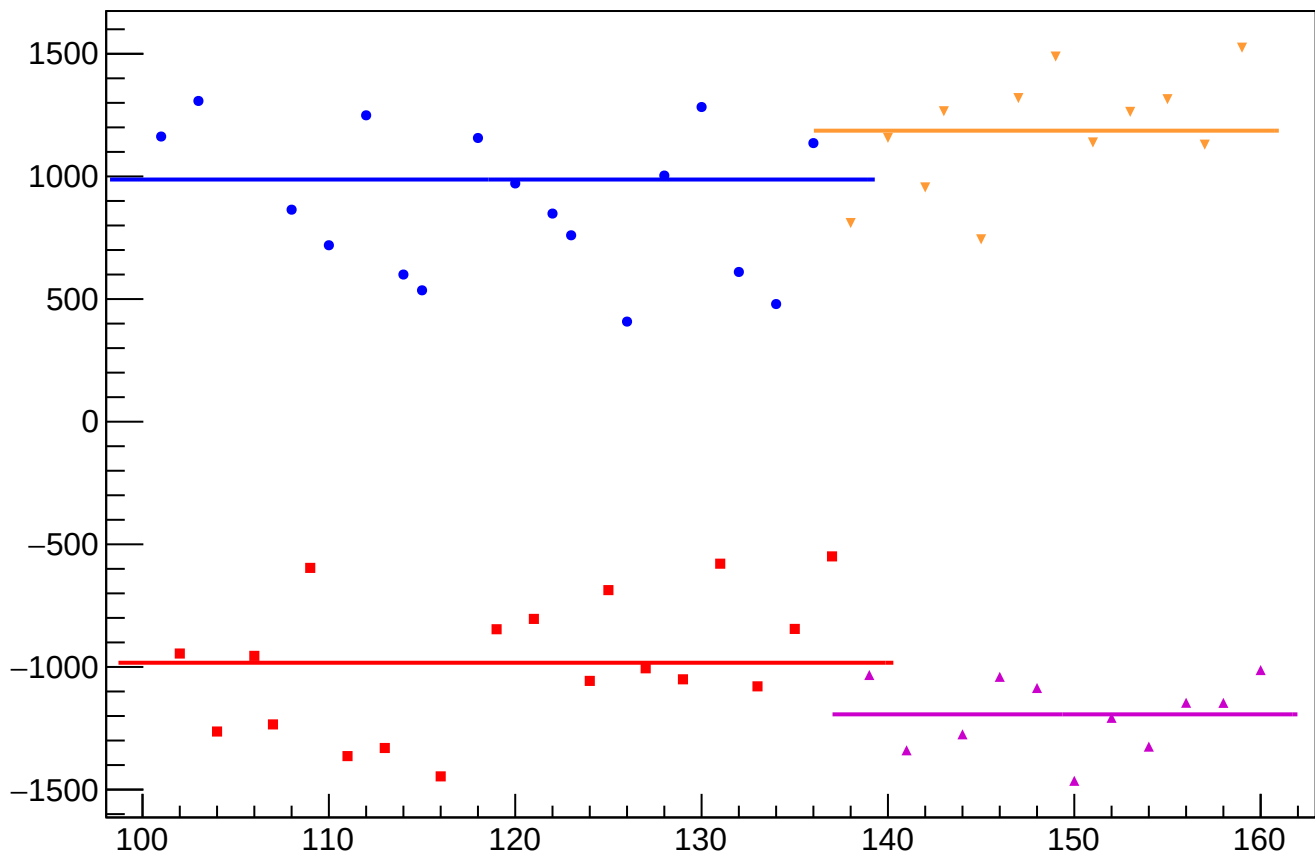
dit\_atr2\_coil7\_err\_mean vs Slug, Sign Corrected



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

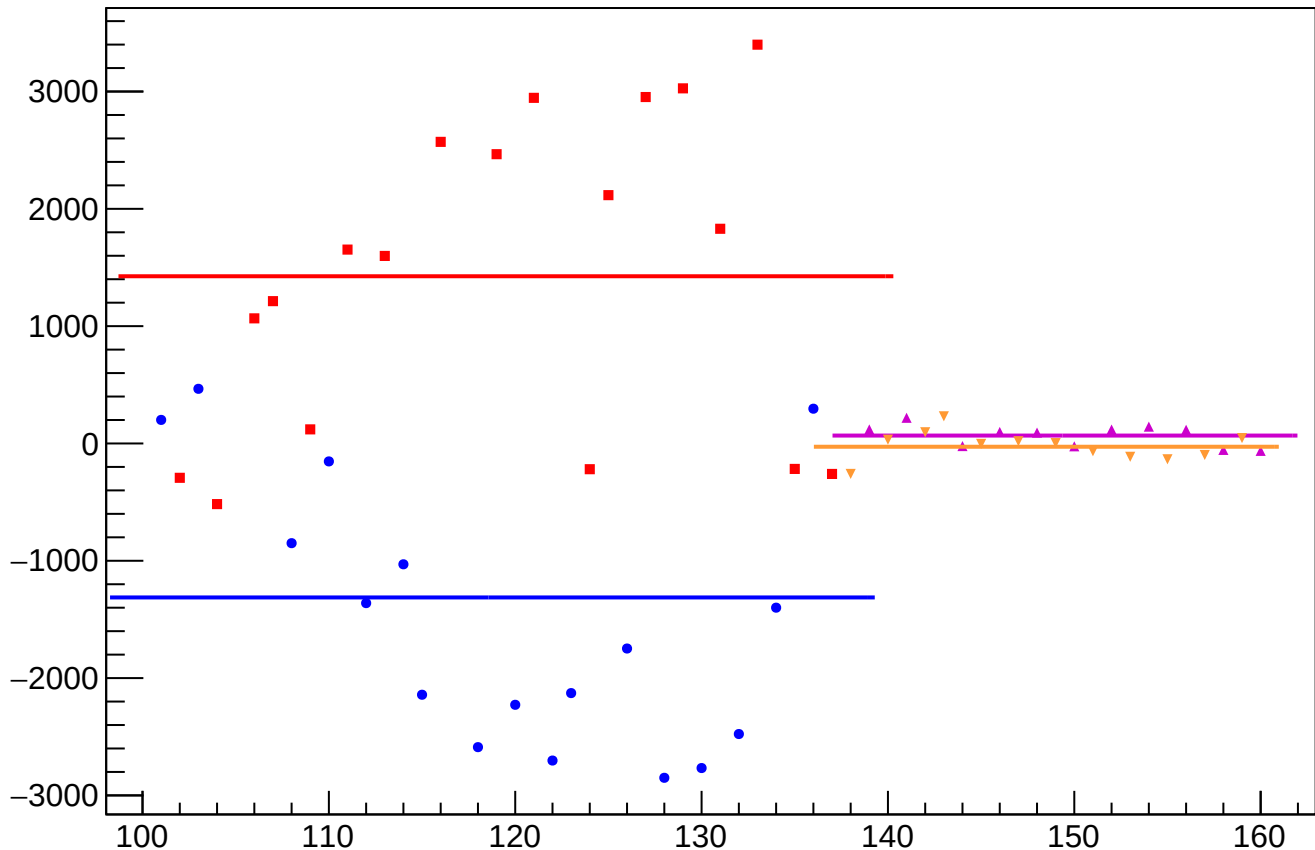


dit\_atr2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



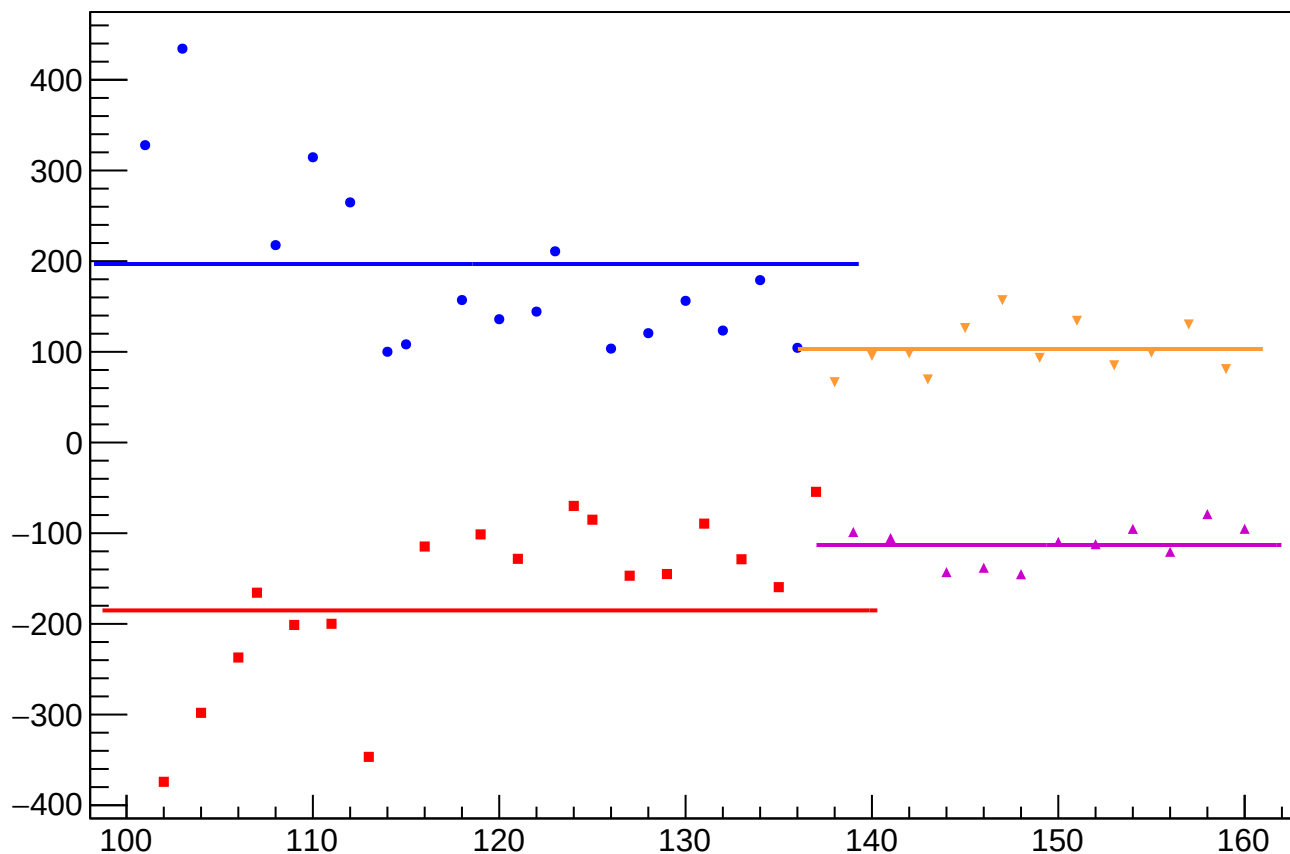
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| 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+/-0.000  $\chi^2/\text{NDF}$ : 23963856797224553  
 Right In: -1312.539+/-0.000  $\chi^2/\text{NDF}$ : 1111791822009253468495433607153226612736.0/16  
 Right: 76.793+/-0.000  $\chi^2/\text{NDF}$ : 5011395418904363  
 Left Out: -27.898+/-0.000  $\chi^2/\text{NDF}$ : 12443192627710109481350397021099393024.0/11  
 In: -521.250+/-0.000  $\chi^2/\text{NDF}$ : 1876902541000526  
 Right Out: 1425.319+/-0.000  $\chi^2/\text{NDF}$ : 1259772432394270570555753847649915109376.0/17  
 Out: 611.911+/-0.000  $\chi^2/\text{NDF}$ : 2117386598922048  
 Left In: 67.340+/-0.000  $\chi^2/\text{NDF}$ : 7344542288743460655103542950920978432.0/10  
 All: 44.808+/-0.000  $\chi^2/\text{NDF}$ : 5037903368261

# dit\_sam1\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 196.858+/-0.000

$\chi^2/\text{NDF}$ : 7337666778319090402870822115647422464.0/16

Left Out: 103.111+/-0.000

$\chi^2/\text{NDF}$ : 658393761495499558426534507754553344.0/11

Right Out: -185.135+/-0.000

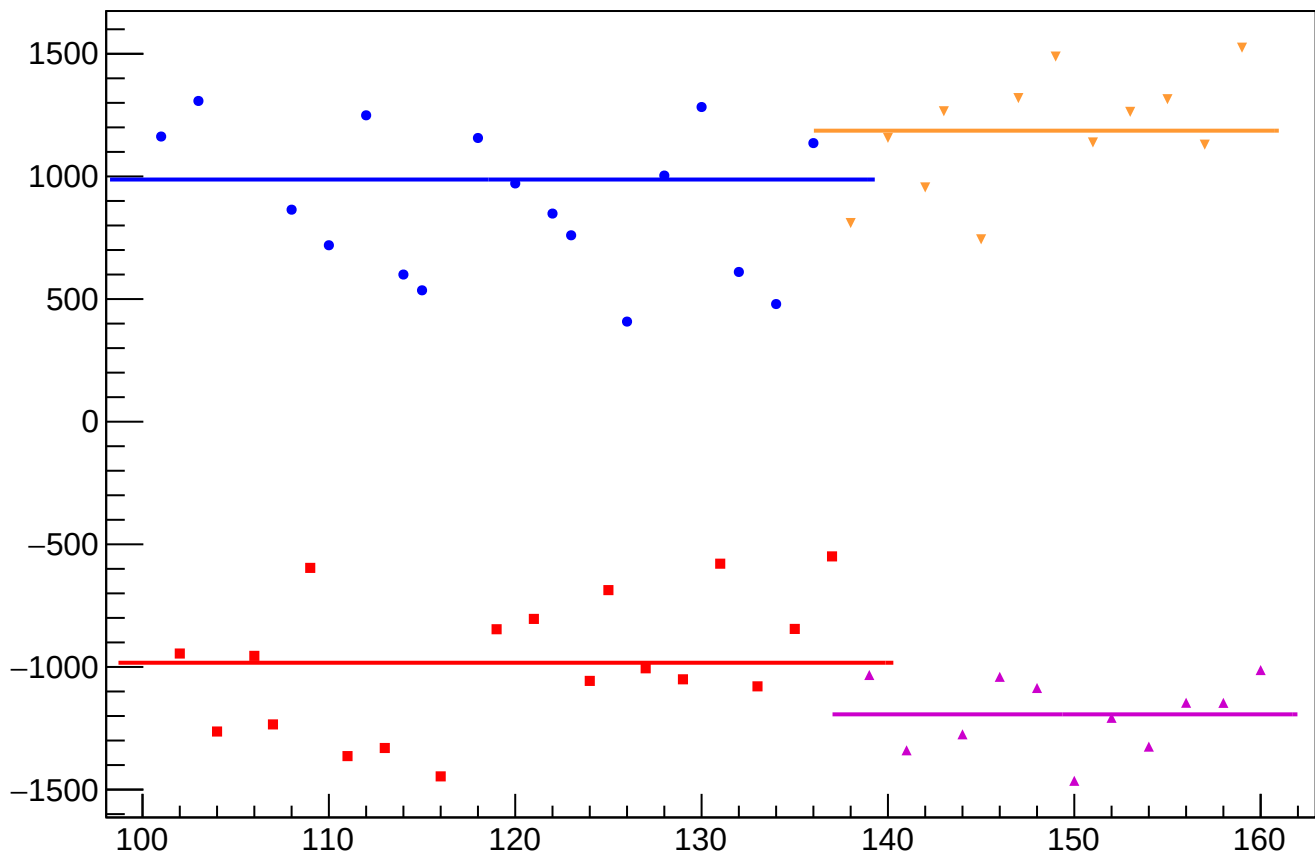
$\chi^2/\text{NDF}$ : 6160706554997434160213032977968398336.0/17

Left In: -113.009+/-0.000

$\chi^2/\text{NDF}$ : 394825243882053718517351386298974208.0/10

All: -2.295+/-0.000  $\chi^2/\text{NDF}$ : 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

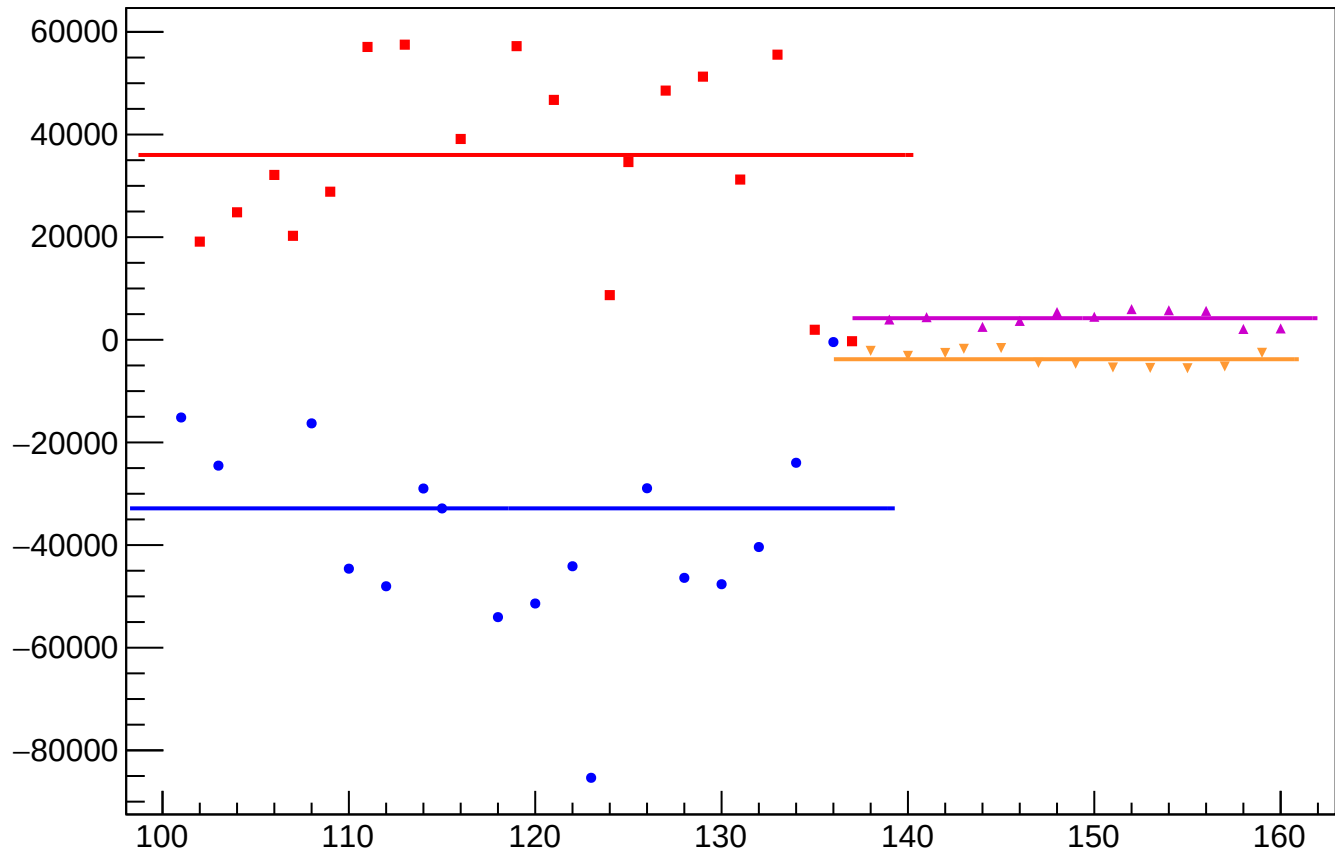
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

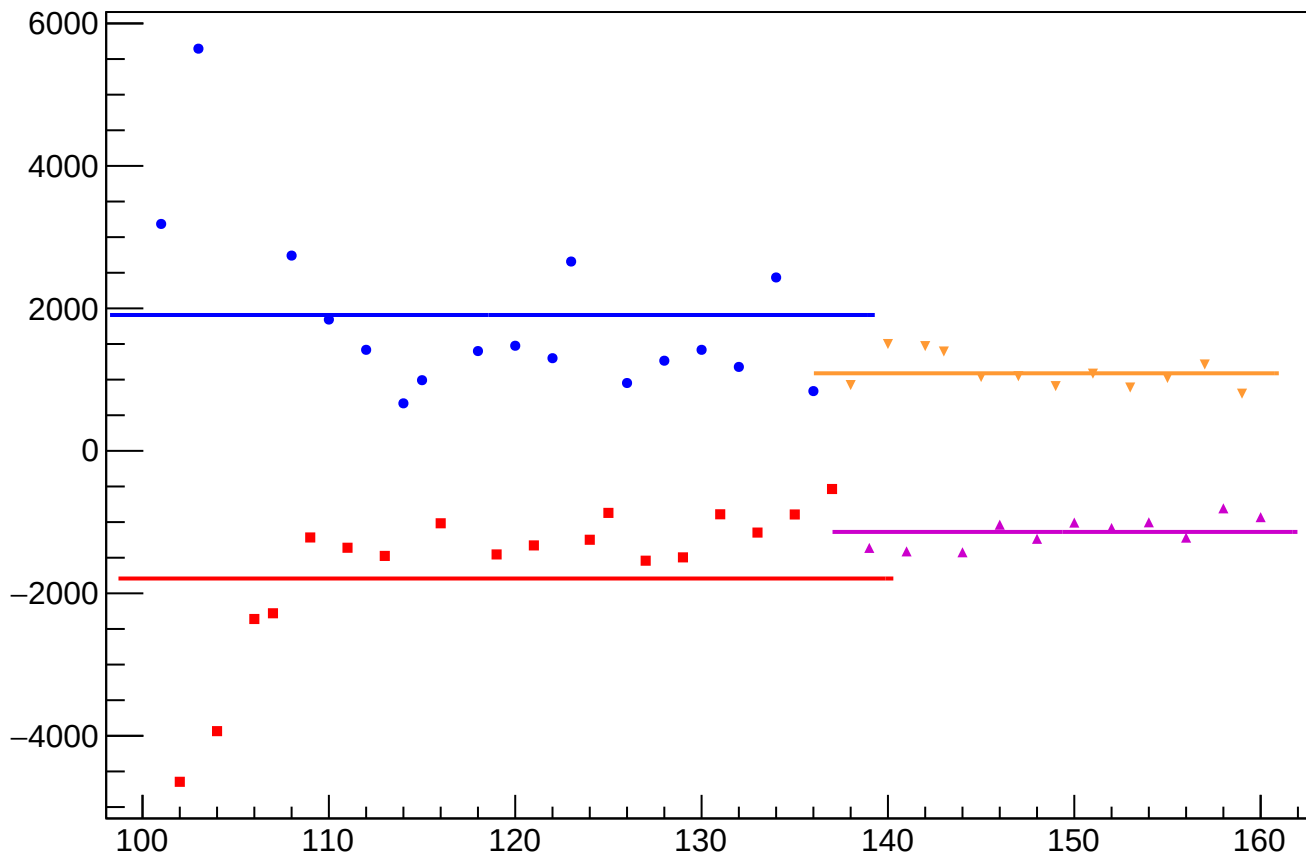
All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_sam2\_coil7\_mean vs Slug, Sign Corrected



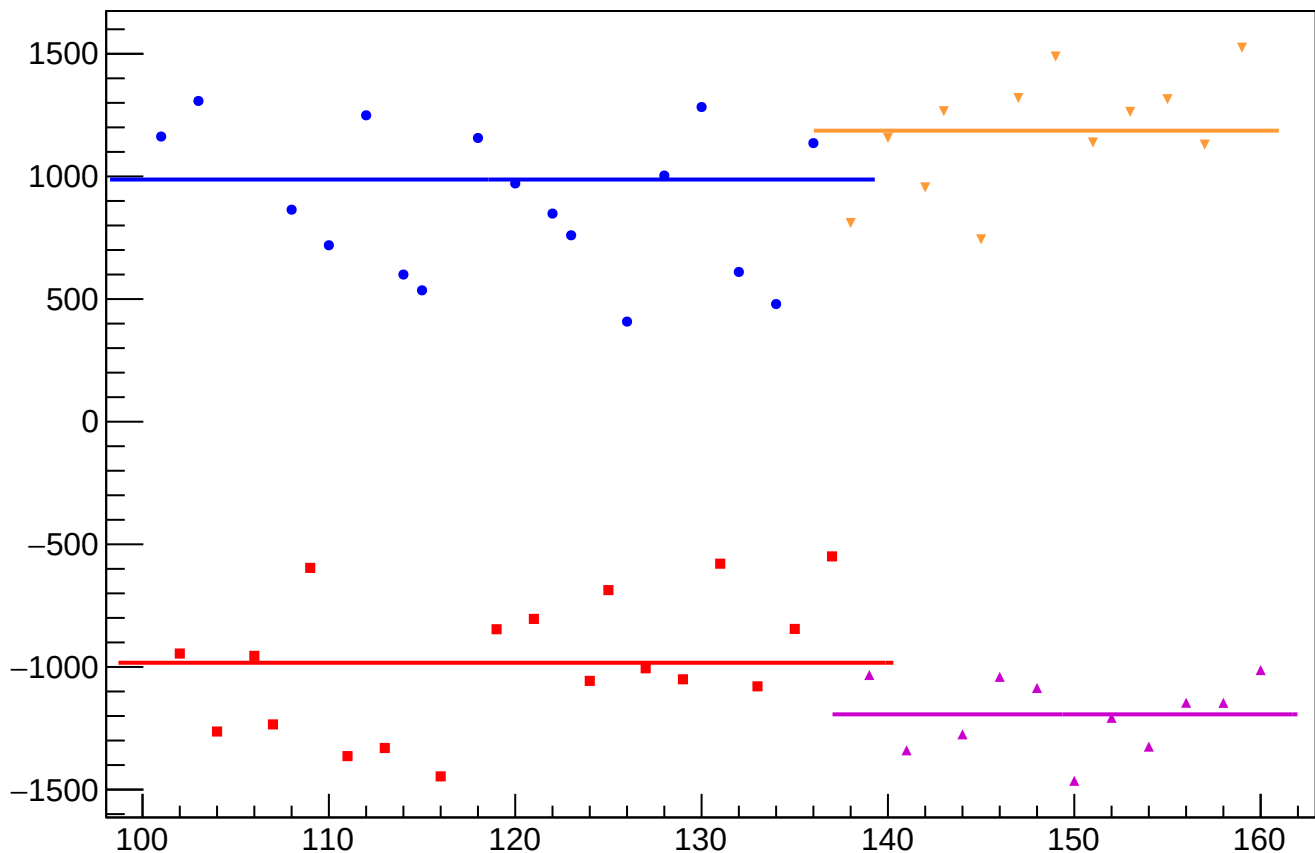
Right In: -32846.038+/-0.000  $\chi^2/\text{NDF}$ : 219637368732777746312600570455176987541504.0/16  
 Left Out: -3785.473+/-0.000  $\chi^2/\text{NDF}$ : 2024140029118734707580792113032155103232.0/11  
 Right Out: 36017.918+/-0.000  $\chi^2/\text{NDF}$ : 228867649175680979480074989628486510968832.0/17  
 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

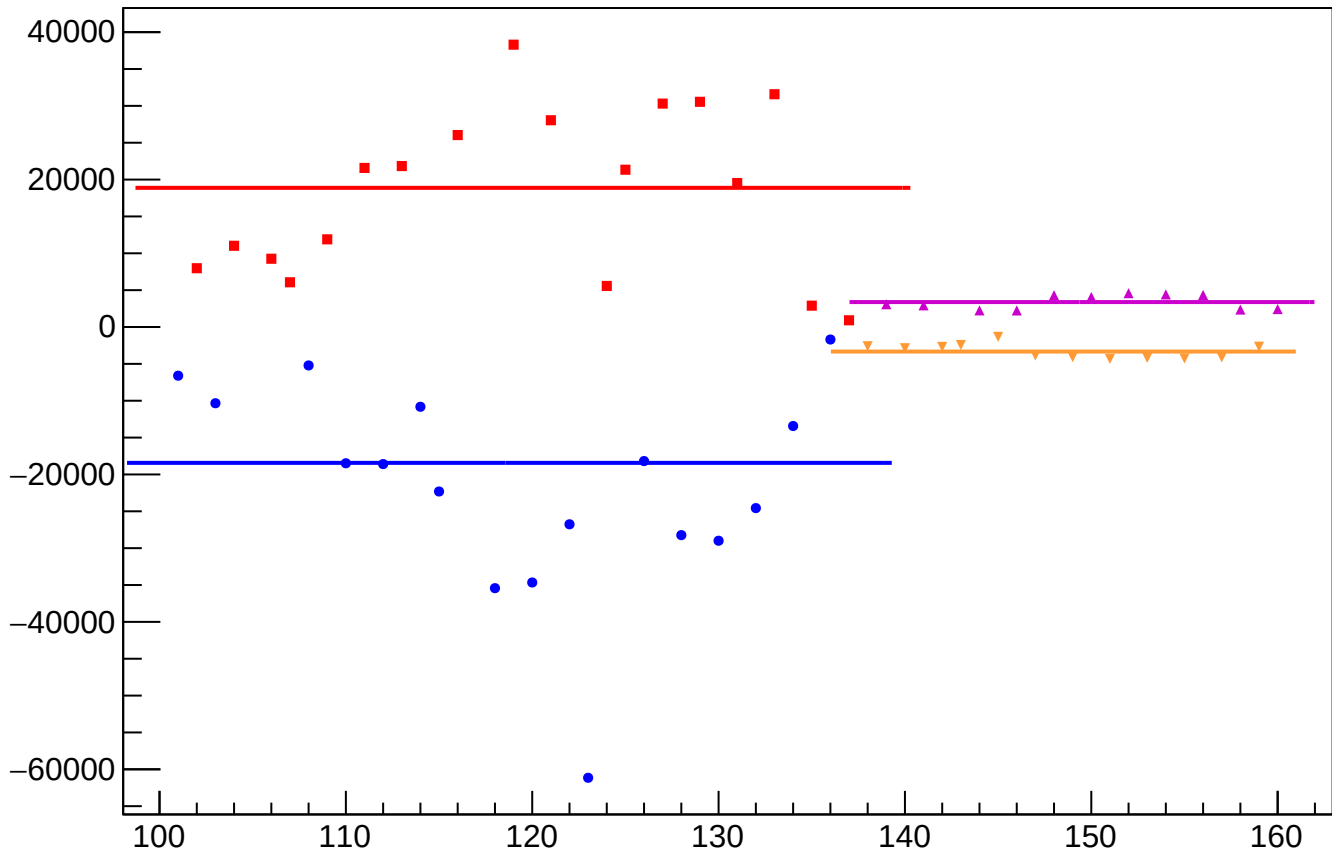
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230+/-0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040+/-0.000  $\chi^2/\text{NDF}$ : 414386874879

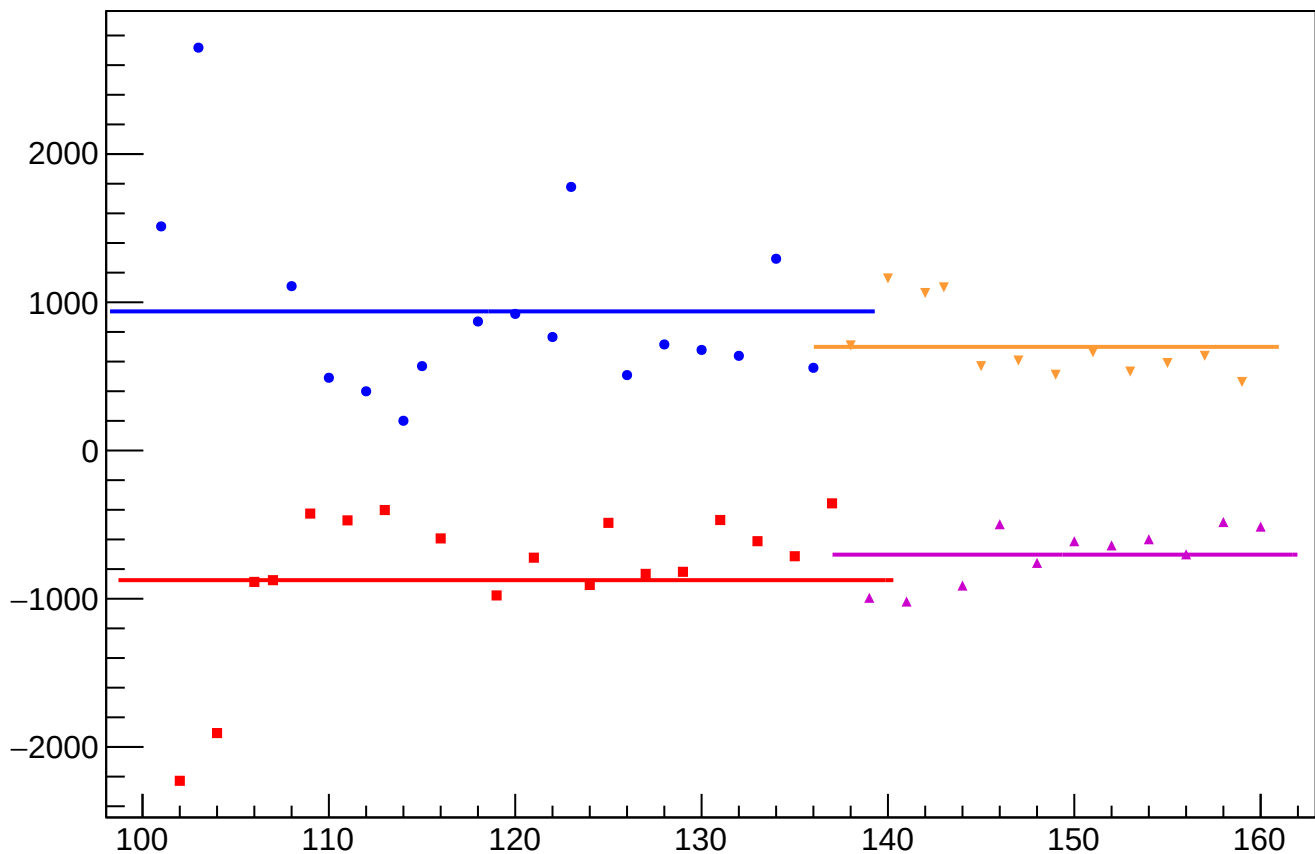
# dit\_sam3\_coil7\_mean vs Slug, Sign Corrected



Right In: -18428.768+/-0.000  $\chi^2/\text{NDF}$ : 91790167940984507561863911678204862005248.0/16  
 Left Out: -3330.218+/-0.000  $\chi^2/\text{NDF}$ : 801638931401536809328175362972460253184.0/11  
 Right Out: 18880.571+/-0.000  $\chi^2/\text{NDF}$ : 85627666736634579824962235279591398703104.0/17  
 Left In: 3383.309+/-0.000  $\chi^2/\text{NDF}$ : 816279200160971630569460981745055694848.0/10  
 All: 258.229+/-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

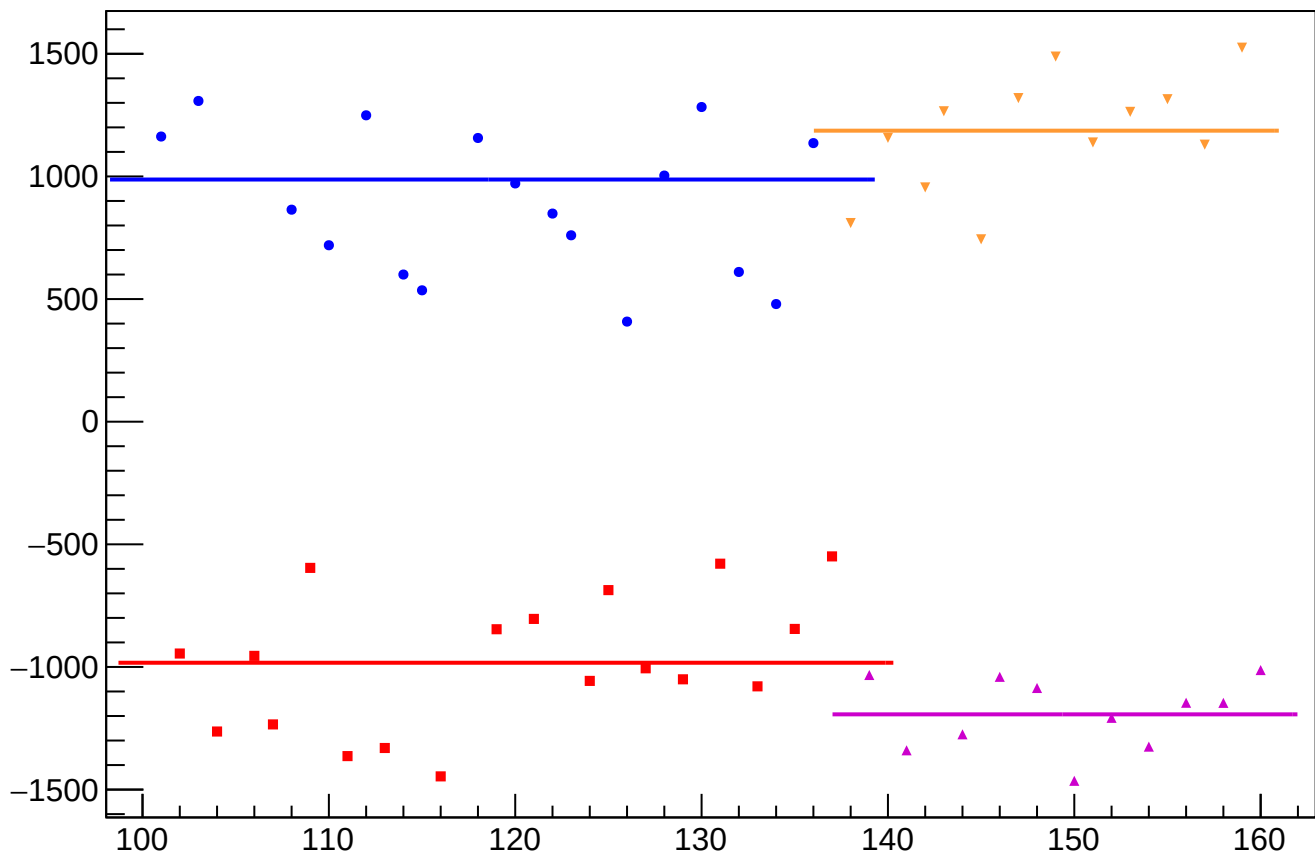
Out: 6.260+/-0.000  $\chi^2/\text{NDF}$ : 125150572862786669

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

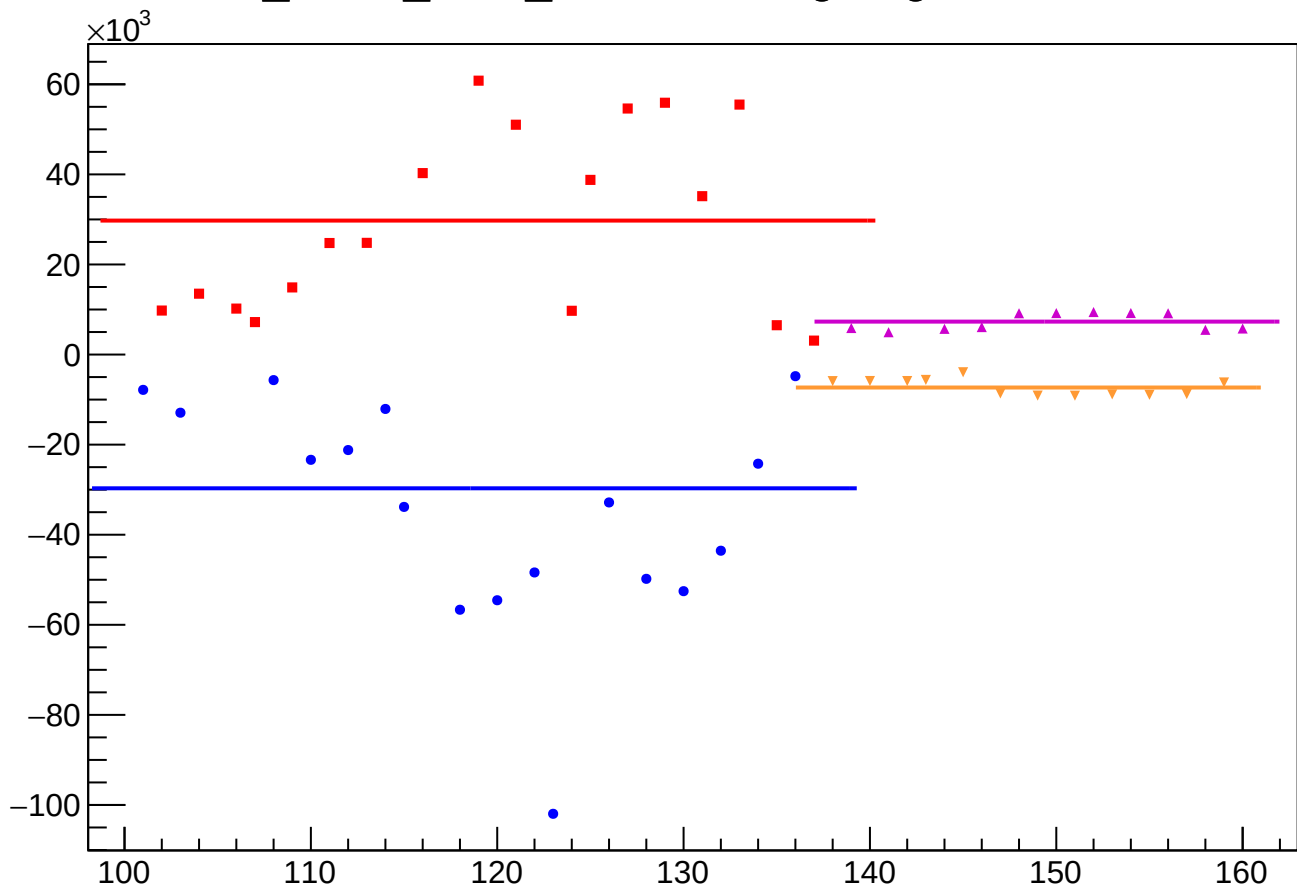
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230 +/- 0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

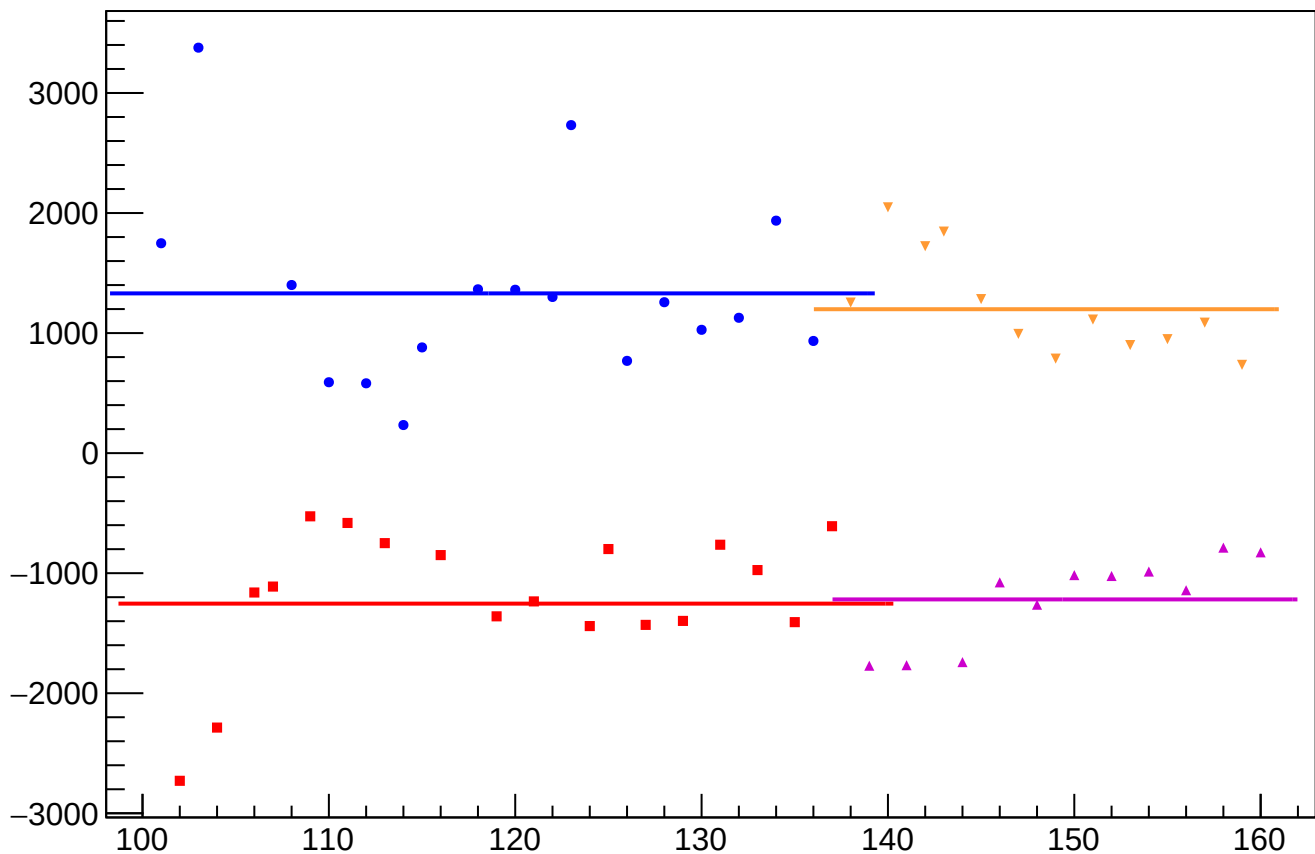
All: -16.040 +/- 0.000  $\chi^2/\text{NDF}$ : 414386874879

# dit\_sam4\_coil7\_mean vs Slug, Sign Corrected



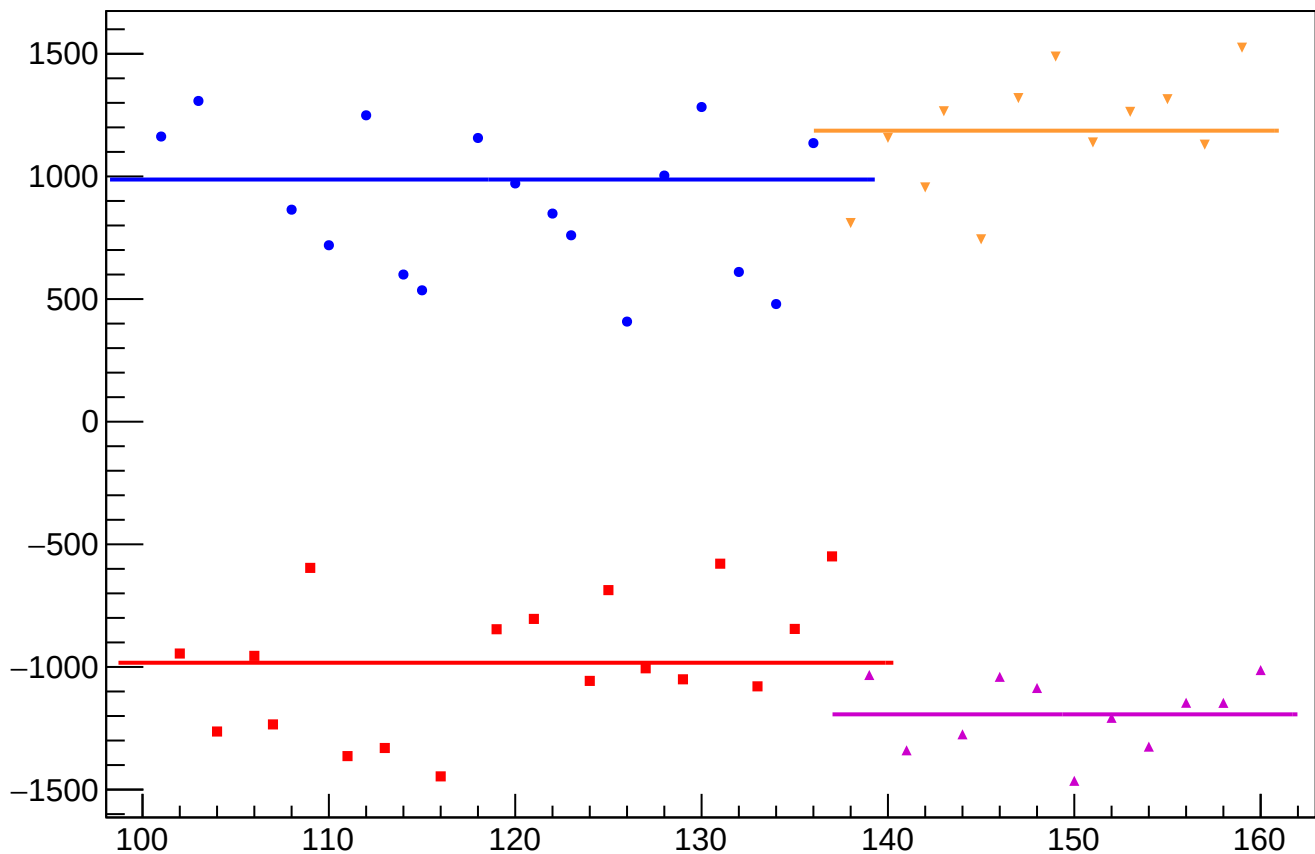
Left:  $92.659 \pm 0.000$   $\chi^2/\text{NDF}: 10444842958829029$   
 Right In:  $-29694.846 \pm 0.000$   $\chi^2/\text{NDF}: 282999478252028644685471433230520510578688.0/16$   
 Right:  $467.716 \pm 0.000$   $\chi^2/\text{NDF}: 181089789808864$   
 Left Out:  $-7317.919 \pm 0.000$   $\chi^2/\text{NDF}: 2833730252125360195766219580881057611776.0/11$   
 In:  $-8472.992 \pm 0.000$   $\chi^2/\text{NDF}: 831104398291345$   
 Right Out:  $29744.384 \pm 0.000$   $\chi^2/\text{NDF}: 283667805670372144788905534129497910018048.0/17$   
 Out:  $8999.536 \pm 0.000$   $\chi^2/\text{NDF}: 836230618033201$   
 Left In:  $7312.611 \pm 0.000$   $\chi^2/\text{NDF}: 3060303804070457713816420667232681459712.0/10$   
 All:  $255.210 \pm 0.000$   $\chi^2/\text{NDF}: 191545862718$

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 +/- 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

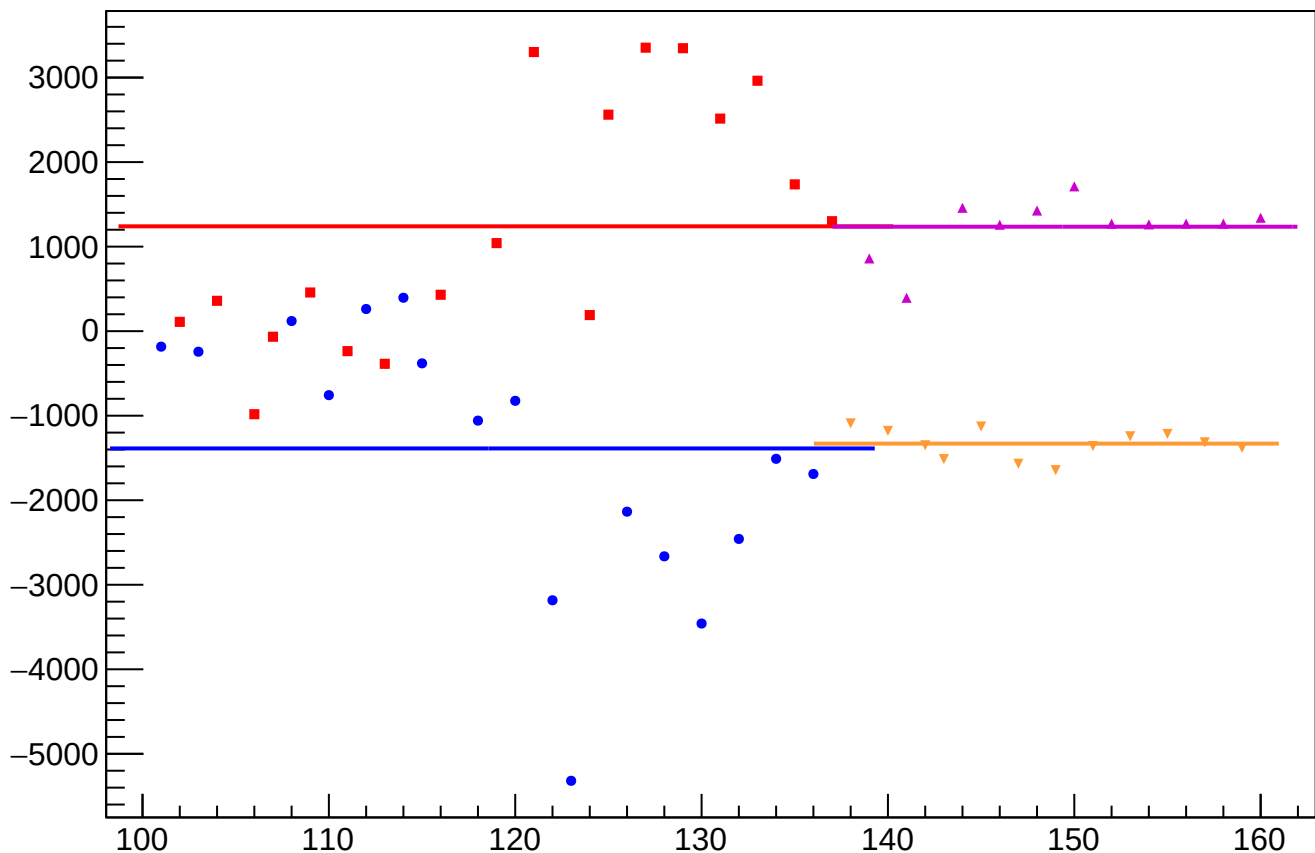
$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1193.230 +/- 0.000

$\chi^2/\text{NDF}$ : 18719715189237327364686937904868491264.0/10

All: -16.040 +/- 0.000  $\chi^2/\text{NDF}$ : 414386874879

dit\_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

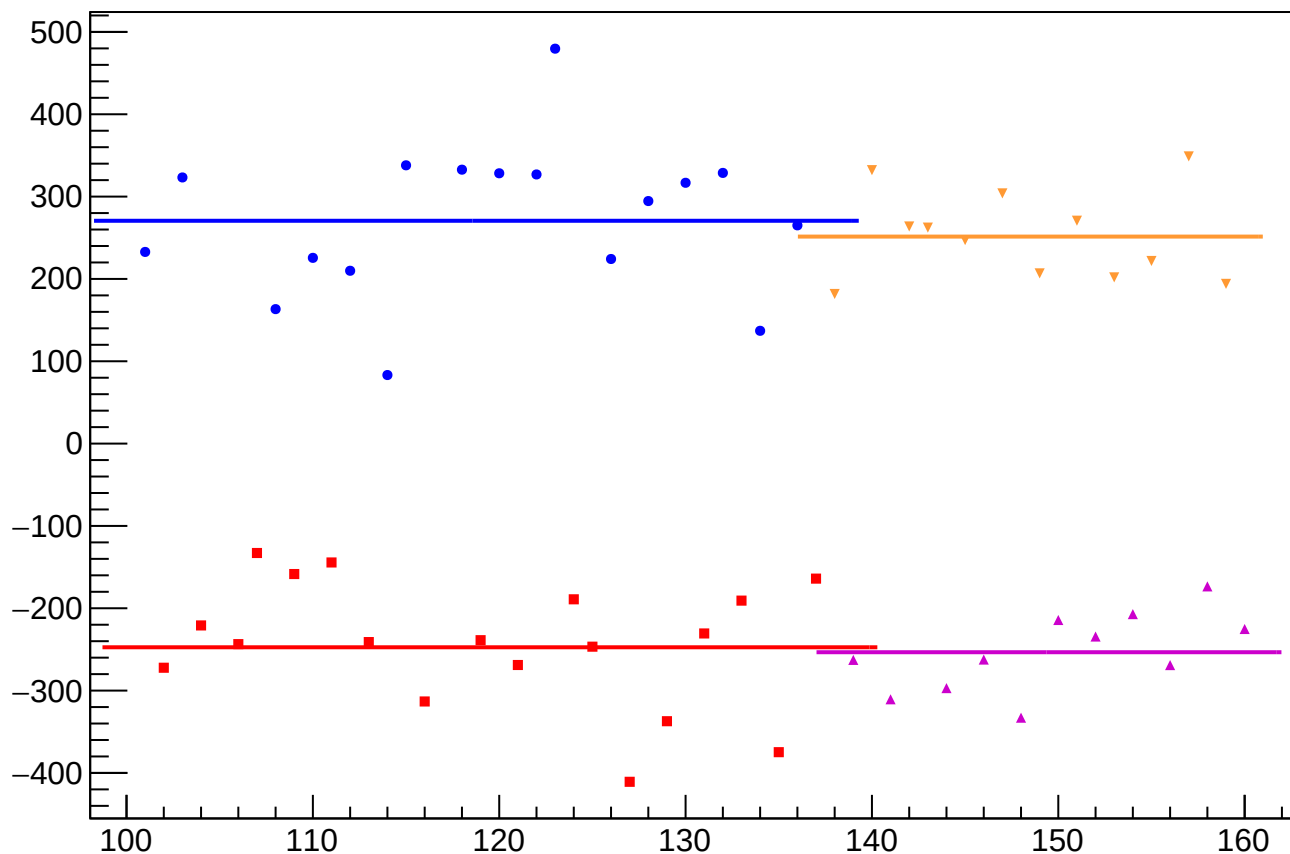
Right: -54.053+/-0.000  $\chi^2/\text{NDF}$ : 490056143046603

In: 116.746+/-0.000  $\chi^2/\text{NDF}$ : 38920726643597010

Out: -198.660+/-0.000  $\chi^2/\text{NDF}$ : 408740909485264

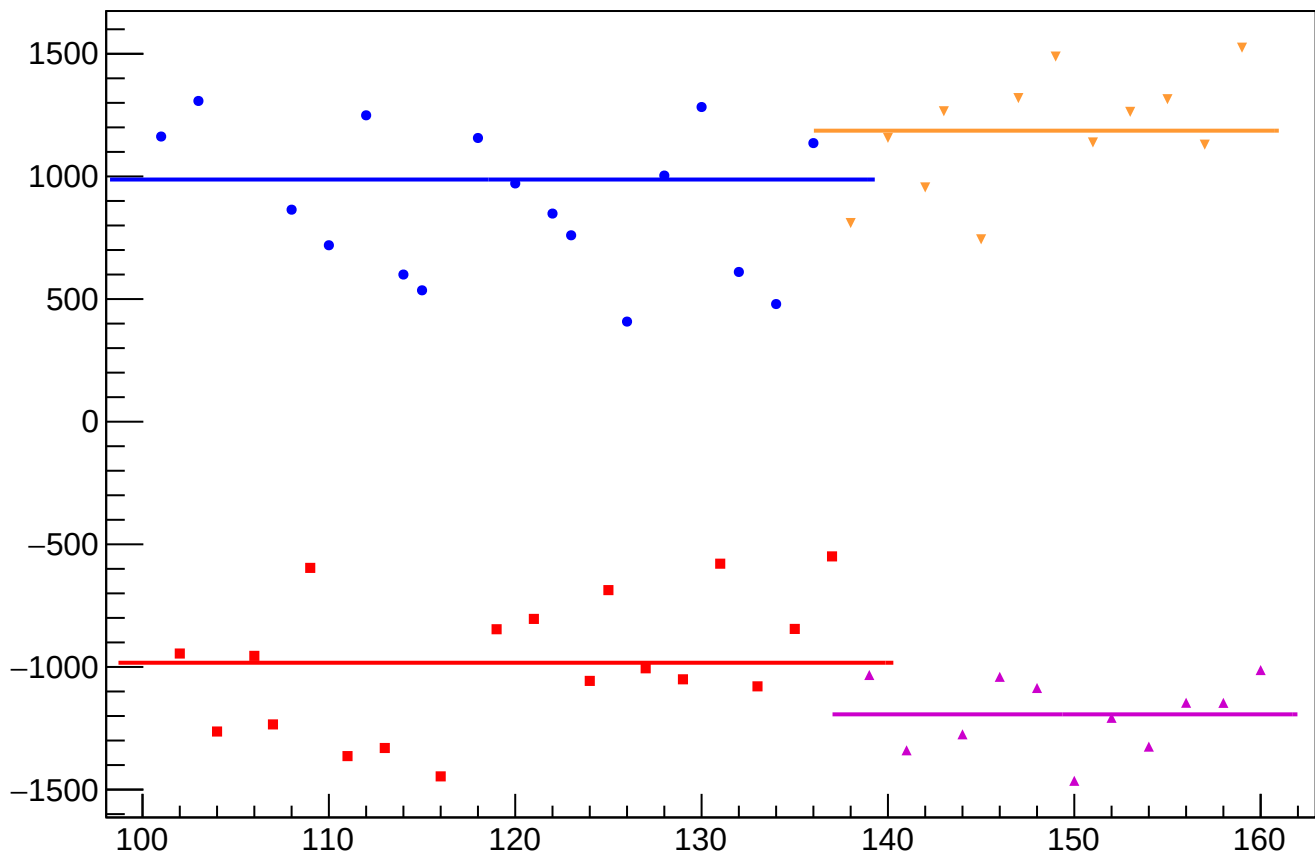
All: -40.811+/-0.000  $\chi^2/\text{NDF}$ : 806033500101

dit\_sam5\_coil7\_err\_mean vs Slug, Sign Corrected



Left:  $-4.274 \pm 0.000$   $\chi^2/\text{NDF}: 12188204109454759$   
 Right In:  $270.634 \pm 0.000$   $\chi^2/\text{NDF}: 2782961301444799640631413817001115648.0/16$   
 Right:  $7.759 \pm 0.000$   $\chi^2/\text{NDF}: 10143508305852927$   
 Left Out:  $251.431 \pm 0.000$   $\chi^2/\text{NDF}: 2584936508665838554891763249678647296.0/11$   
 In:  $-29.873 \pm 0.000$   $\chi^2/\text{NDF}: 11402759697940028$   
 Right Out:  $-247.395 \pm 0.000$   $\chi^2/\text{NDF}: 4145415912975495896207578940101885952.0/17$   
 Out:  $31.812 \pm 0.000$   $\chi^2/\text{NDF}: 10631259218301621$   
 Left In:  $-253.400 \pm 0.000$   $\chi^2/\text{NDF}: 1956558228349454722124070225585373184.0/10$   
 All:  $0.941 \pm 0.000$   $\chi^2/\text{NDF}: 22343270830260$

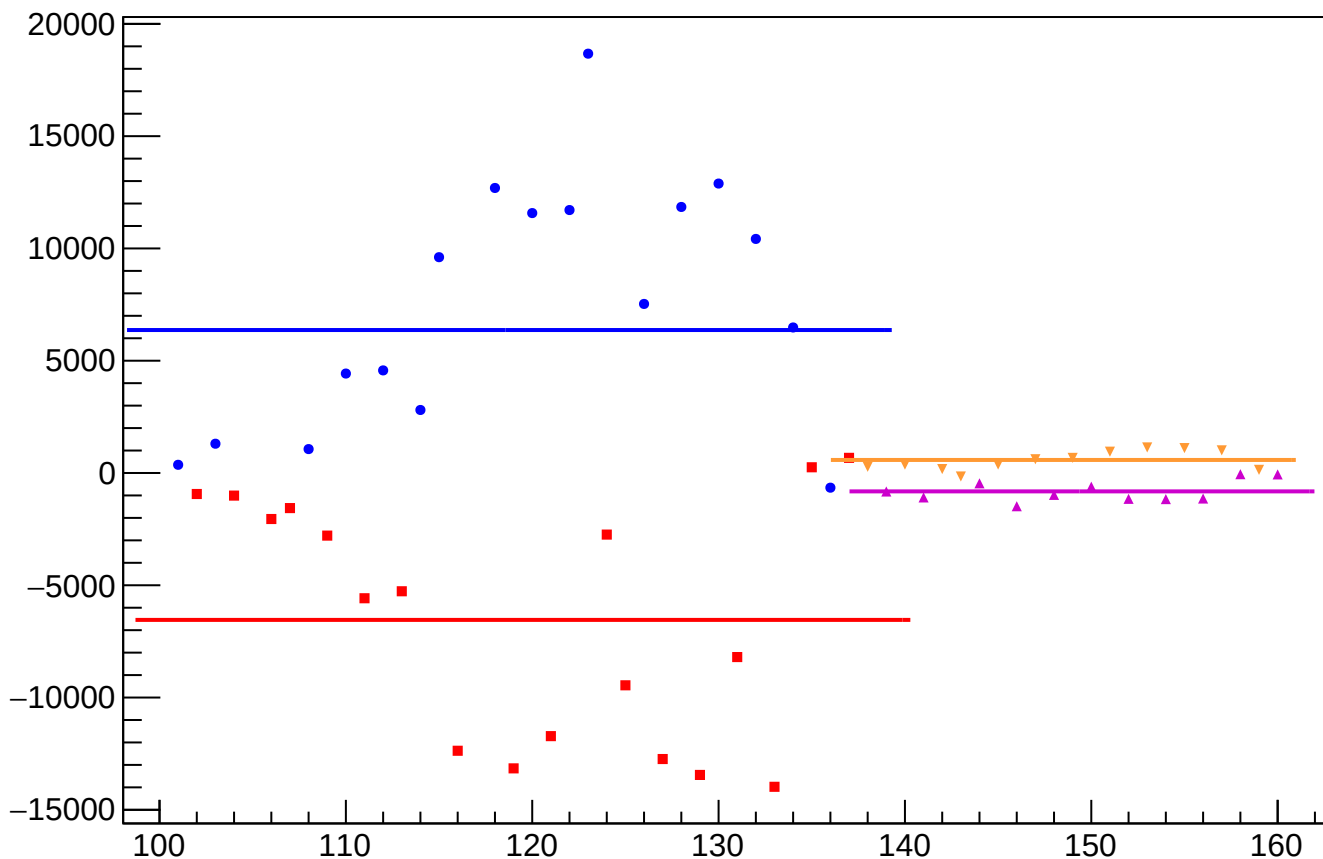
dit\_sam5\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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:  $-16.040 \pm 0.000$   $\chi^2/\text{NDF}: 414386874879$

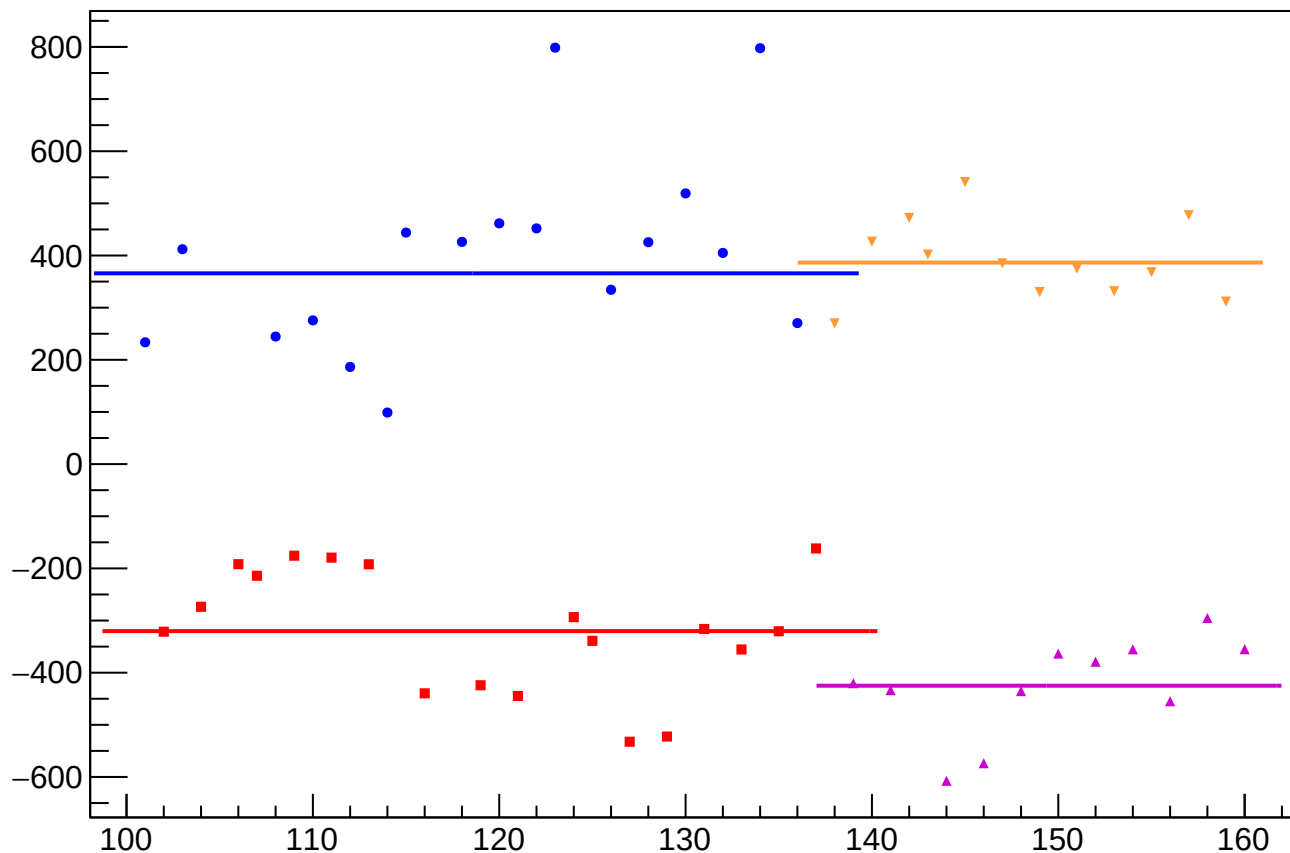


# dit\_sam6\_coil7\_mean vs Slug, Sign Corrected



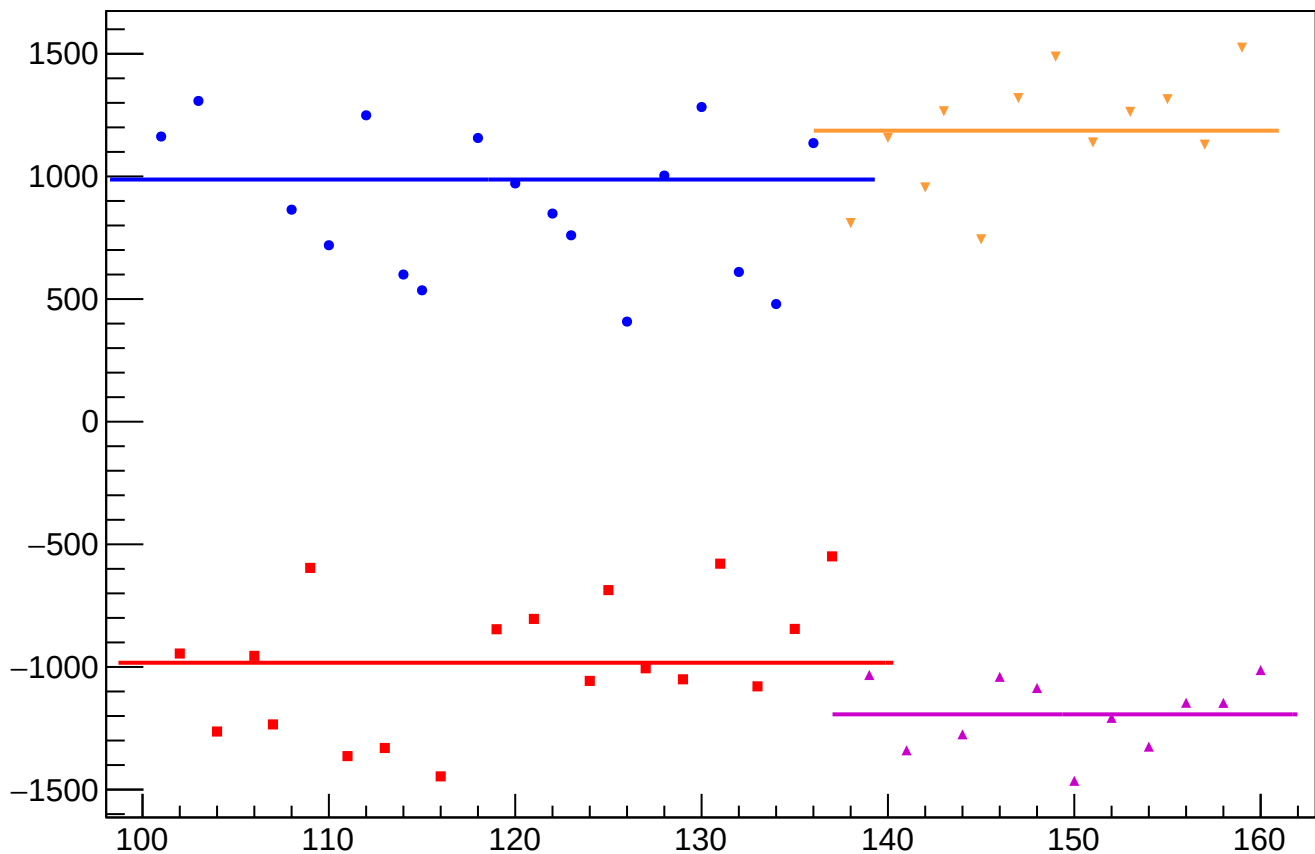
Left: -128.443+/-0.000  $\chi^2/\text{NDF}$ : 123207860803939  
 Right In: 6366.506+/-0.000  $\chi^2/\text{NDF}$ : 19013791293174950781662205946475975802880.0/16  
 Left Out: 580.460+/-0.000  $\chi^2/\text{NDF}$ : 147049020633782369498744411617383940096.0/11  
 Right Out: -6542.482+/-0.000  $\chi^2/\text{NDF}$ : 19769956838076333850932350219813545574400.0/17  
 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



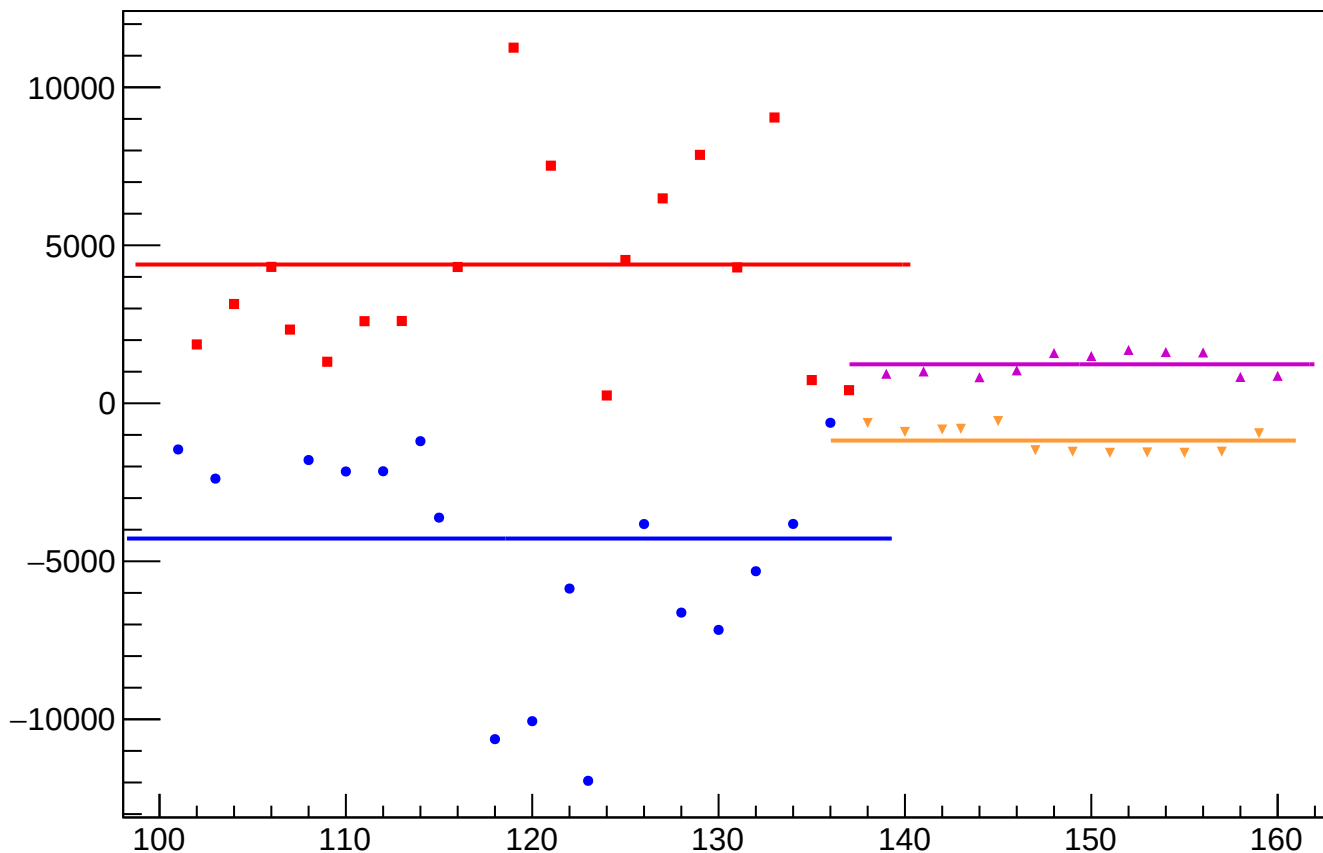
Left:  $-24.505 \pm 0.000$   $\chi^2/\text{NDF}: 315822154496685$   
 Right In:  $365.806 \pm 0.000$   $\chi^2/\text{NDF}: 12360453443474503357525500563004850176.0/16$   
 Right:  $17.648 \pm 0.000$   $\chi^2/\text{NDF}: 1875984728574231$   
 Left Out:  $386.511 \pm 0.000$   $\chi^2/\text{NDF}: 5027608774007269972306139885841940480.0/11$   
 In:  $-87.651 \pm 0.000$   $\chi^2/\text{NDF}: 26883198821393574$   
 Right Out:  $-320.284 \pm 0.000$   $\chi^2/\text{NDF}: 9463966273350706118112483440542613504.0/17$   
 Out:  $75.330 \pm 0.000$   $\chi^2/\text{NDF}: 21441833289177396$   
 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:  $987.388 \pm 0.000$   $\chi^2/\text{NDF}: 52571386835815299758771040245189181440.0/16$   
 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\_sam7\_coil7\_mean vs Slug, Sign Corrected



Right In: -4279.824 +/- 0.000

Left Out: -1178.229 +/- 0.000

Right Out: 4391.806 +/- 0.000

Left In: 1234.217 +/- 0.000

$\chi^2/\text{NDF}$ : 6998436131465727751461675089449726246912.0/16

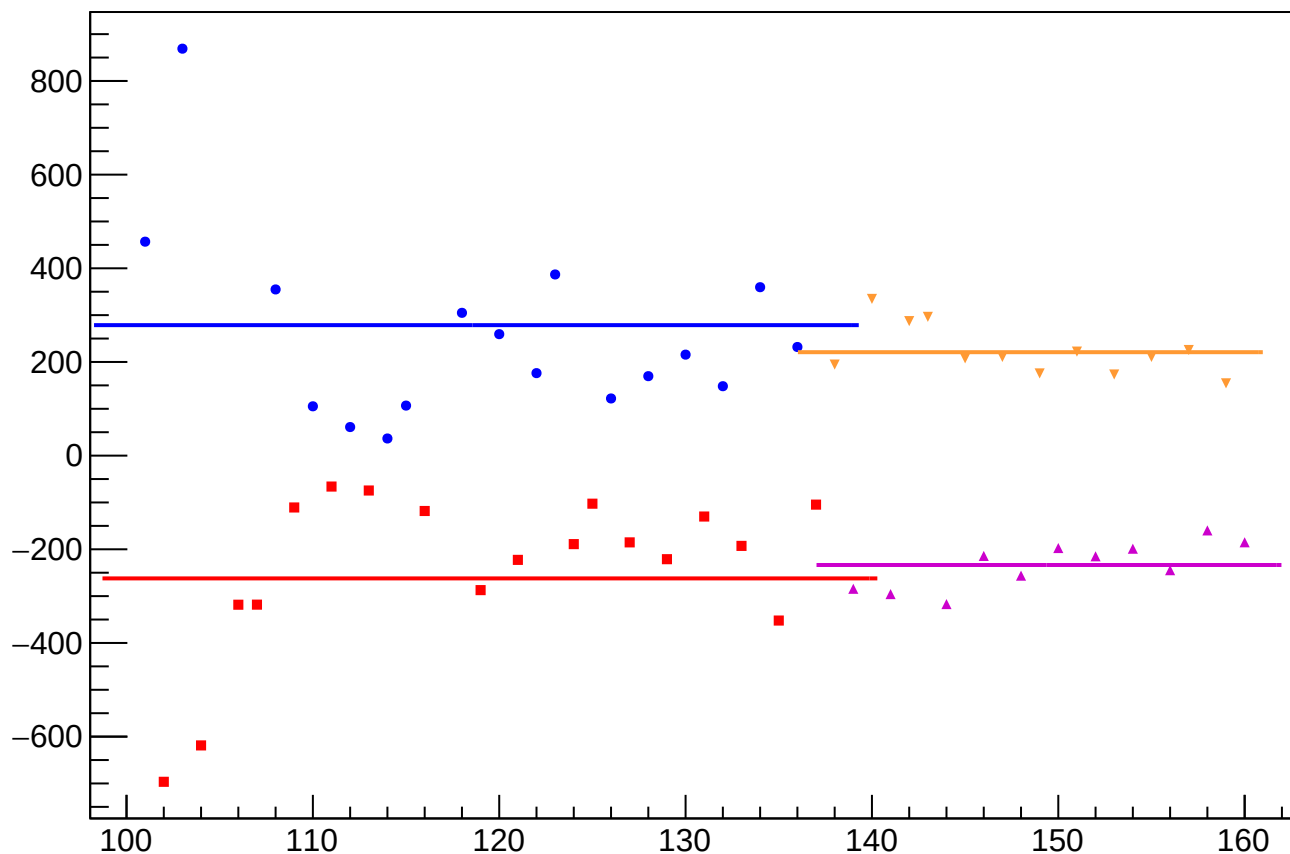
$\chi^2/\text{NDF}$ : 141473895084928360538242951996197830656.0/11

$\chi^2/\text{NDF}$ : 7013803733920665719163942153165454966784.0/17

$\chi^2/\text{NDF}$ : 113222953765781340341469389402247528448.0/10

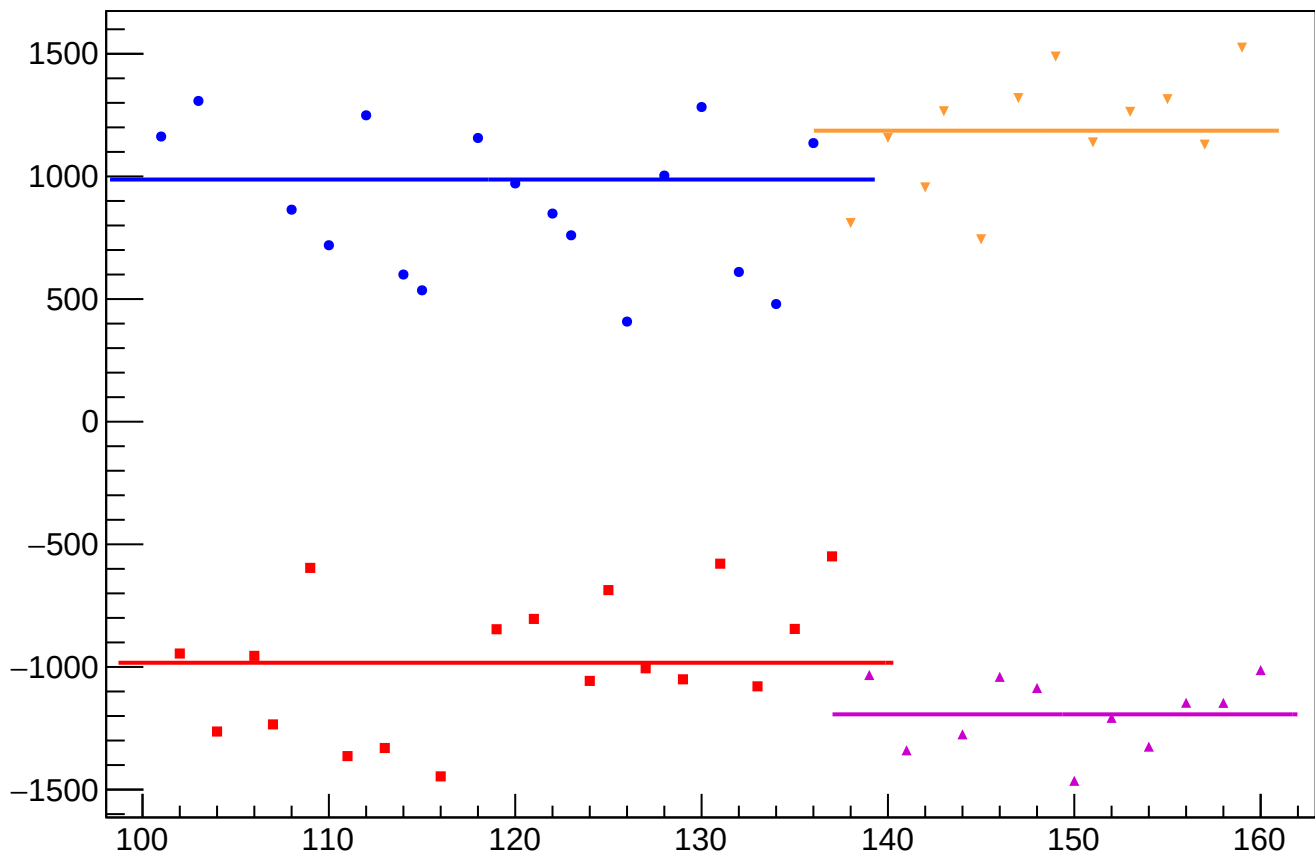
All: 77.040 +/- 0.000  $\chi^2/\text{NDF}$ : 4343358856524

dit\_sam7\_coil7\_err\_mean vs Slug, Sign Corrected



Left:  $-9.280 \pm 0.000$   $\chi^2/\text{NDF}: 99653858078179457$   
 Right In:  $278.633 \pm 0.000$   $\chi^2/\text{NDF}: 30524296265206738304048515708883042304.0/16$   
 Right:  $4.206 \pm 0.000$   $\chi^2/\text{NDF}: 15926891041160523$   
 Left Out:  $220.880 \pm 0.000$   $\chi^2/\text{NDF}: 2451153402301458952205629704112177152.0/11$   
 In:  $-15.060 \pm 0.000$   $\chi^2/\text{NDF}: 13704804736931468$   
 Right Out:  $-262.162 \pm 0.000$   $\chi^2/\text{NDF}: 25748645086335087770789028222868652032.0/17$   
 Out:  $8.211 \pm 0.000$   $\chi^2/\text{NDF}: 121579786580146270$   
 Left In:  $-233.520 \pm 0.000$   $\chi^2/\text{NDF}: 2135124077253807192462629940293009408.0/10$   
 All:  $-3.435 \pm 0.000$   $\chi^2/\text{NDF}: 2590679569370$

dit\_sam7\_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

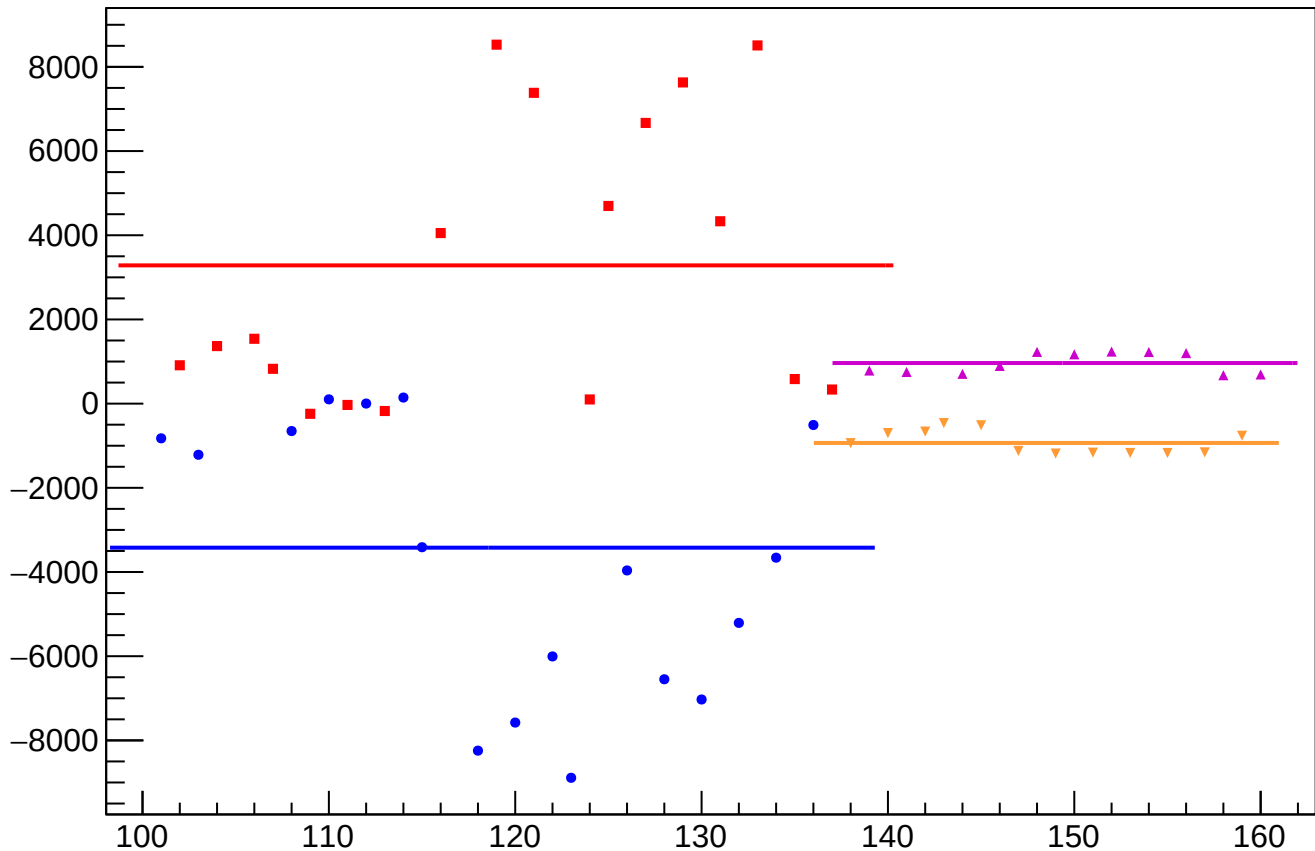
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

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\_sam8\_coil7\_mean vs Slug, Sign Corrected



Right In: -3421.719+/-0.000

$\chi^2/\text{NDF}$ : 6462112736004972779572658363986020925440.0/16

Left Out: -933.972+/-0.000

$\chi^2/\text{NDF}$ : 64192639419401528934807333255243628544.0/11

Right Out: 3284.376+/-0.000

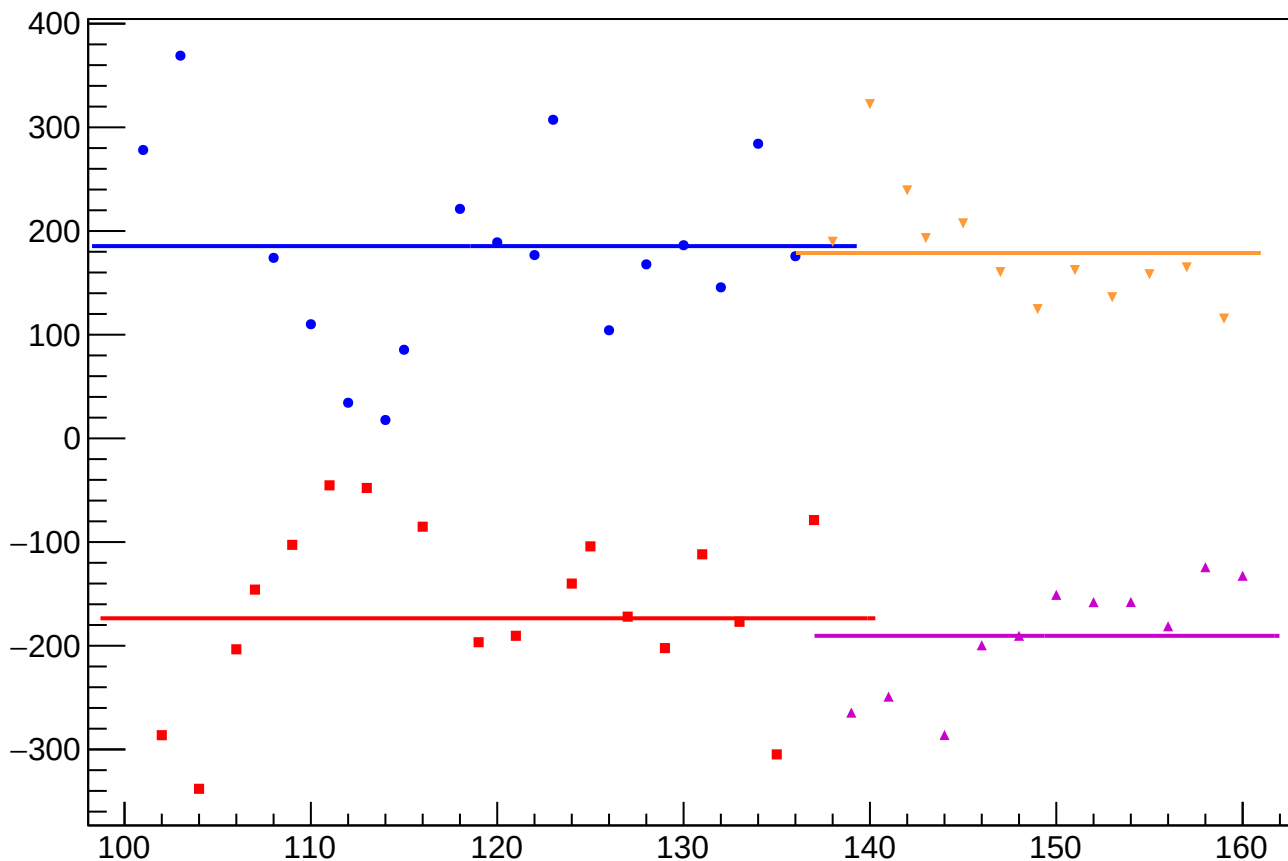
$\chi^2/\text{NDF}$ : 7820854185595313728450757047863572692992.0/17

Left In: 964.532+/-0.000

$\chi^2/\text{NDF}$ : 52328346838047917935593162774962765824.0/10

Left: 27.648+/-0.000  $\chi^2/\text{NDF}$ : 17760271131271719  
 Right: -18.697+/-0.000  $\chi^2/\text{NDF}$ : 301207331793136  
 In: -906.432+/-0.000  $\chi^2/\text{NDF}$ : 1417112247304554  
 Out: 923.244+/-0.000  $\chi^2/\text{NDF}$ : 1500650014022729  
 All: 7.562+/-0.000  $\chi^2/\text{NDF}$ : 31898475032999

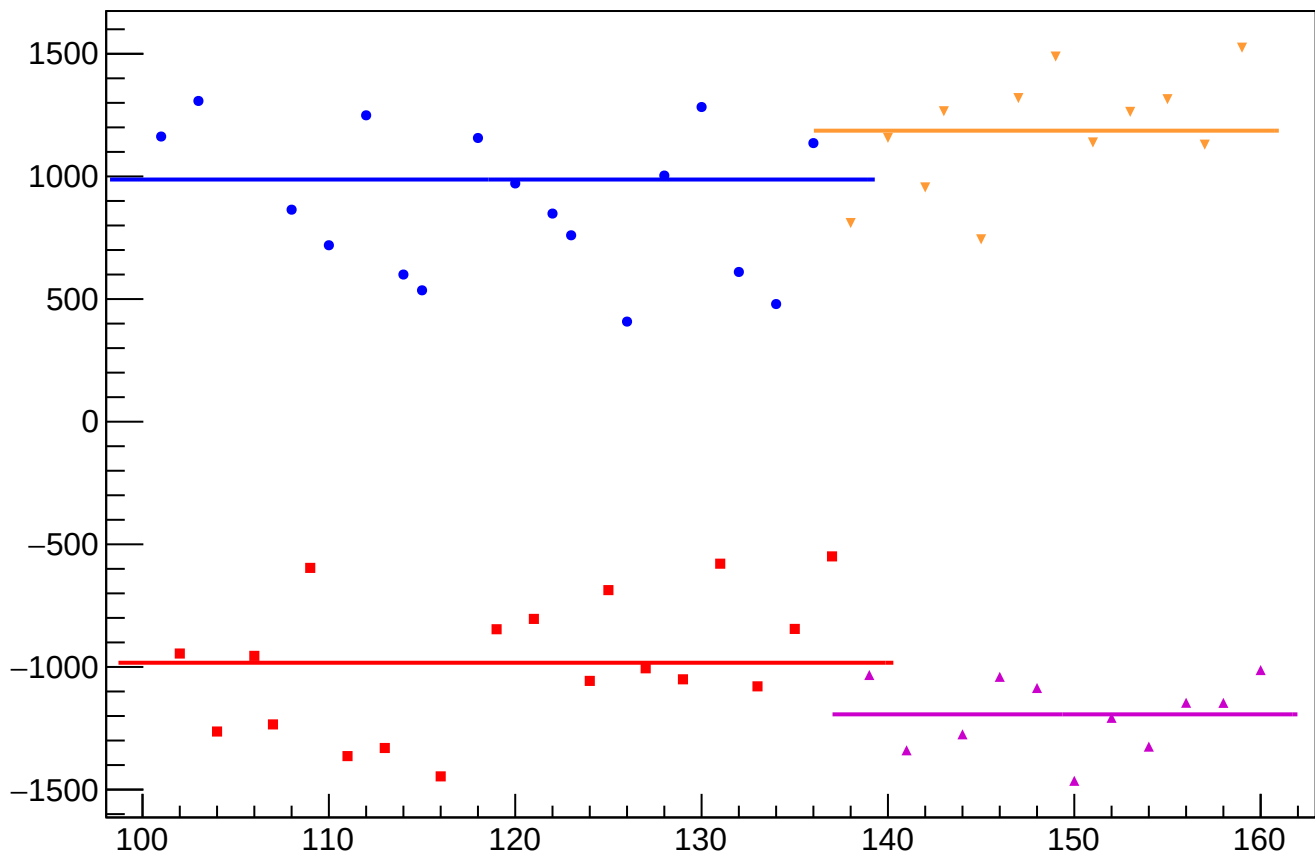
dit\_sam8\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $185.440 \pm 0.000$   $\chi^2/\text{NDF}: 4992999881975997017558054599194050560.0/16$   
 Left Out:  $178.789 \pm 0.000$   $\chi^2/\text{NDF}: 2761846974558217365203652056992186368.0/11$   
 Right Out:  $-173.513 \pm 0.000$   $\chi^2/\text{NDF}: 5476704825855084602521292305195859968.0/17$   
 Left In:  $-190.431 \pm 0.000$   $\chi^2/\text{NDF}: 2526907691148920878217594844913598464.0/10$   
 All:  $-3.236 \pm 0.000$   $\chi^2/\text{NDF}: 1240070542970$

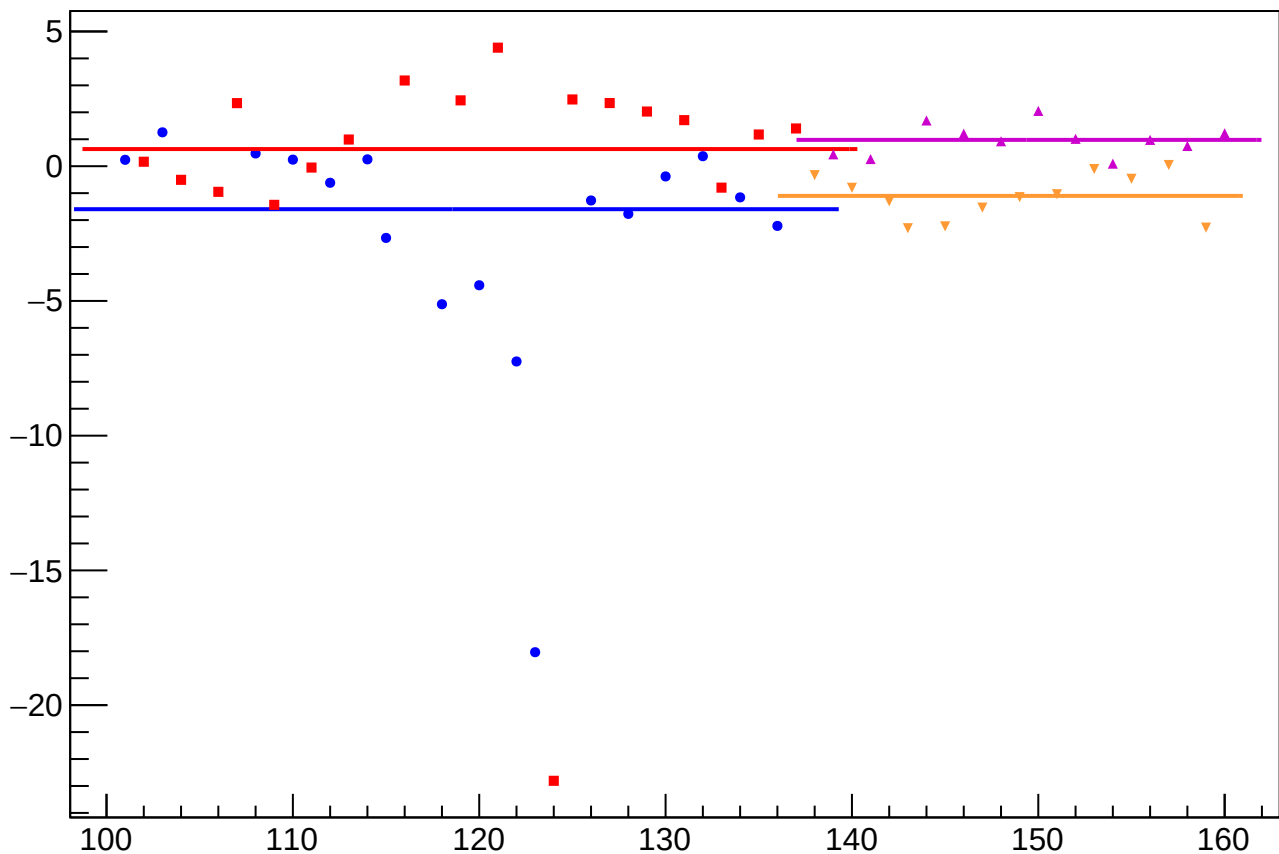


dit\_sam8\_coil7\_Ndata\_mean vs Slug, Sign Corrected



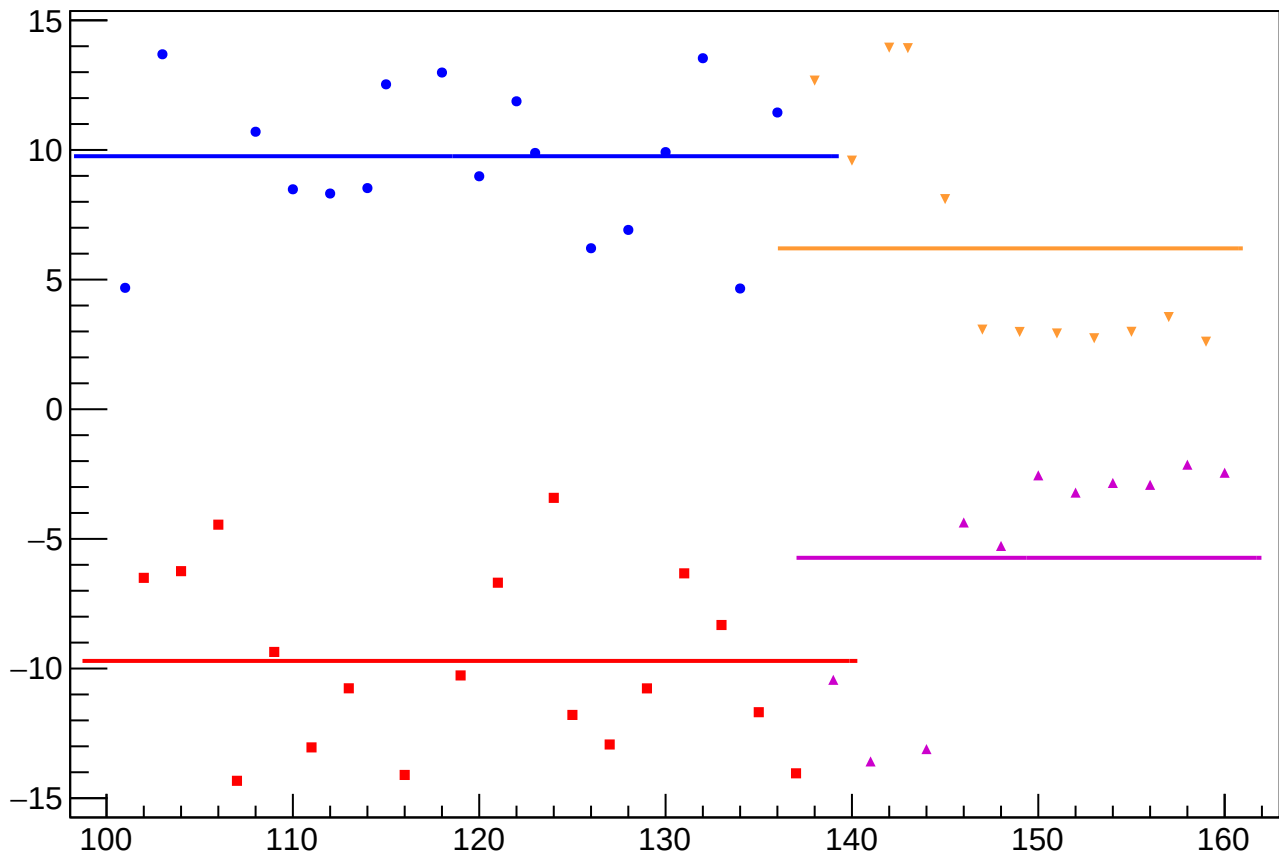
Right In: 987.388 $\pm$ 0.000  $\chi^2$ /NDF: 52571386835815299758771040245189181440.0/16  
 Left Out: 1186.594 $\pm$ 0.000  $\chi^2$ /NDF: 49763362019555548841298308984106647552.0/11  
 Right Out: -982.831 $\pm$ 0.000  $\chi^2$ /NDF: 48106250951114292454819733992816771072.0/17  
 Left In: -1193.230 $\pm$ 0.000  $\chi^2$ /NDF: 18719715189237327364686937904868491264.0/10  
 All: -16.040 $\pm$ 0.000  $\chi^2$ /NDF: 414386874879

dit\_4aX\_coil4\_mean vs Slug, Sign Corrected



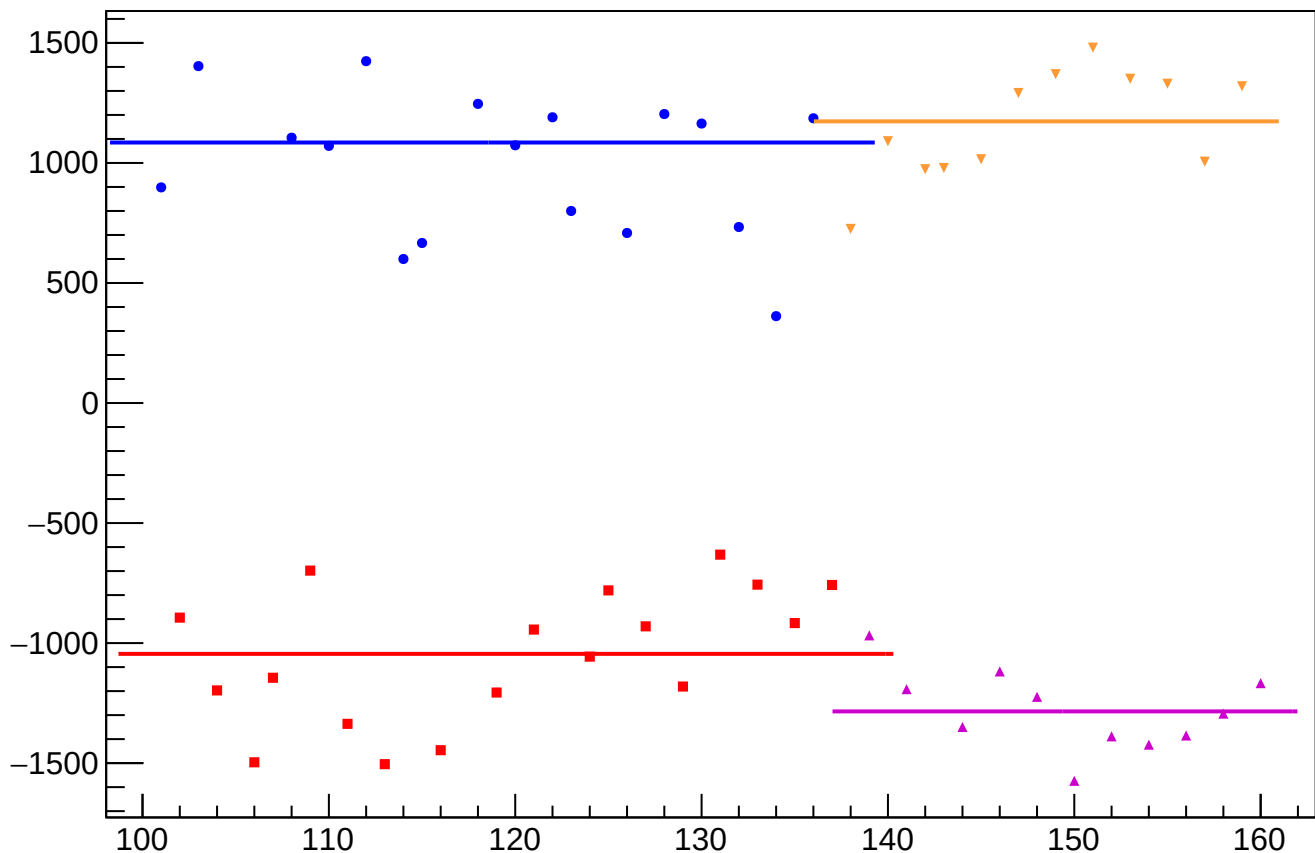
Right In:  $-1.596 \pm 0.000$   $\chi^2/\text{NDF}: 4654807928359892398673617982849024.0/16$   
 Left Out:  $-1.102 \pm 0.000$   $\chi^2/\text{NDF}: 592180467002513566987832570937344.0/11$   
 Right Out:  $0.636 \pm 0.000$   $\chi^2/\text{NDF}: 9571048295343482409580772007608320.0/17$   
 Left In:  $0.977 \pm 0.000$   $\chi^2/\text{NDF}: 300890397650119639347670720446464.0/10$   
 All:  $-0.229 \pm 0.000$   $\chi^2/\text{NDF}: 1899961310160$

dit\_4aX\_coil4\_err\_mean vs Slug, Sign Corrected



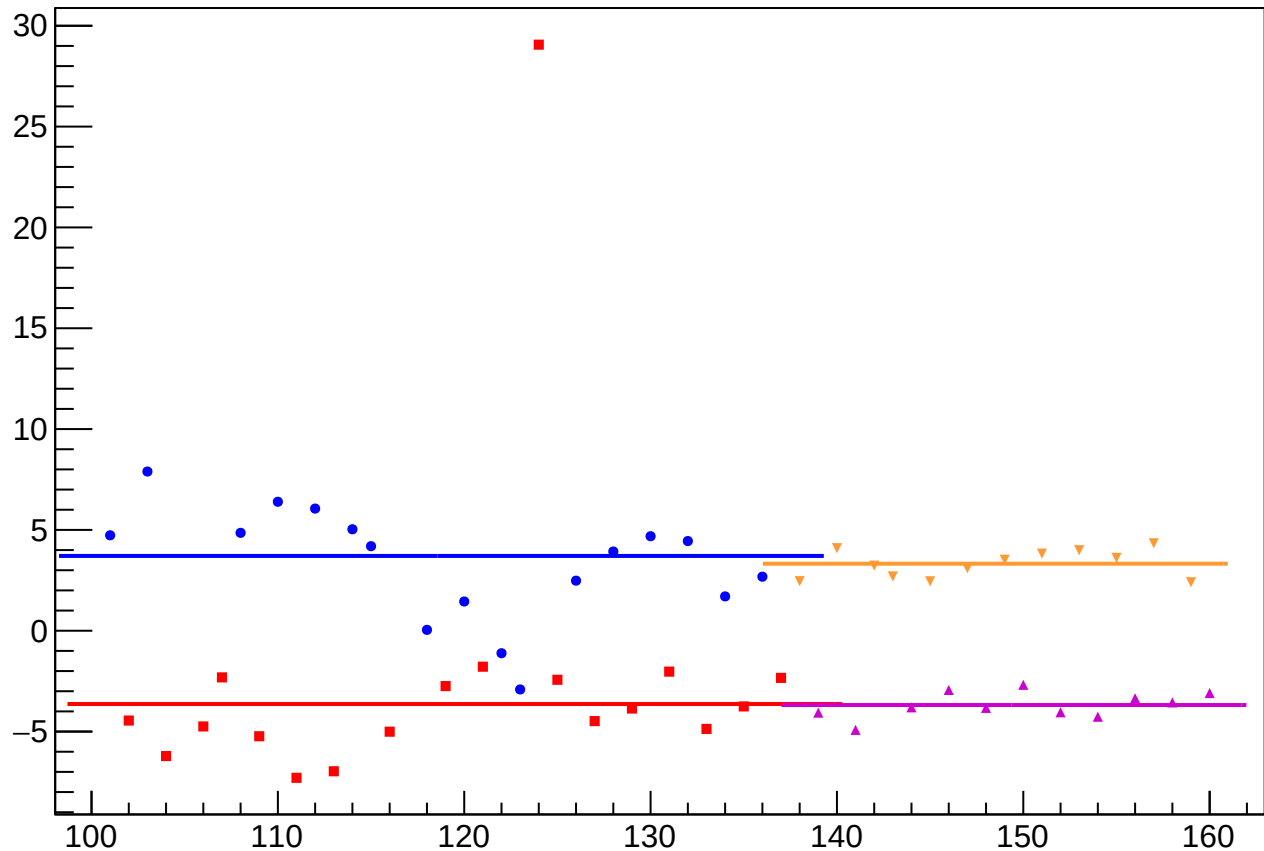
Right In:  $9.759 \pm 0.000$   $\chi^2/\text{NDF}: 5805218601264248923404355625811968.0/16$   
 Left Out:  $6.204 \pm 0.000$   $\chi^2/\text{NDF}: 17109991032954173502313359403384832.0/11$   
 Right Out:  $-9.706 \pm 0.000$   $\chi^2/\text{NDF}: 6508390621050403360774220706480128.0/17$   
 Left In:  $-5.730 \pm 0.000$   $\chi^2/\text{NDF}: 16834211139985692030618150983696384.0/10$   
 All:  $0.039 \pm 0.000$   $\chi^2/\text{NDF}: 24531816908963$

dit\_4aX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



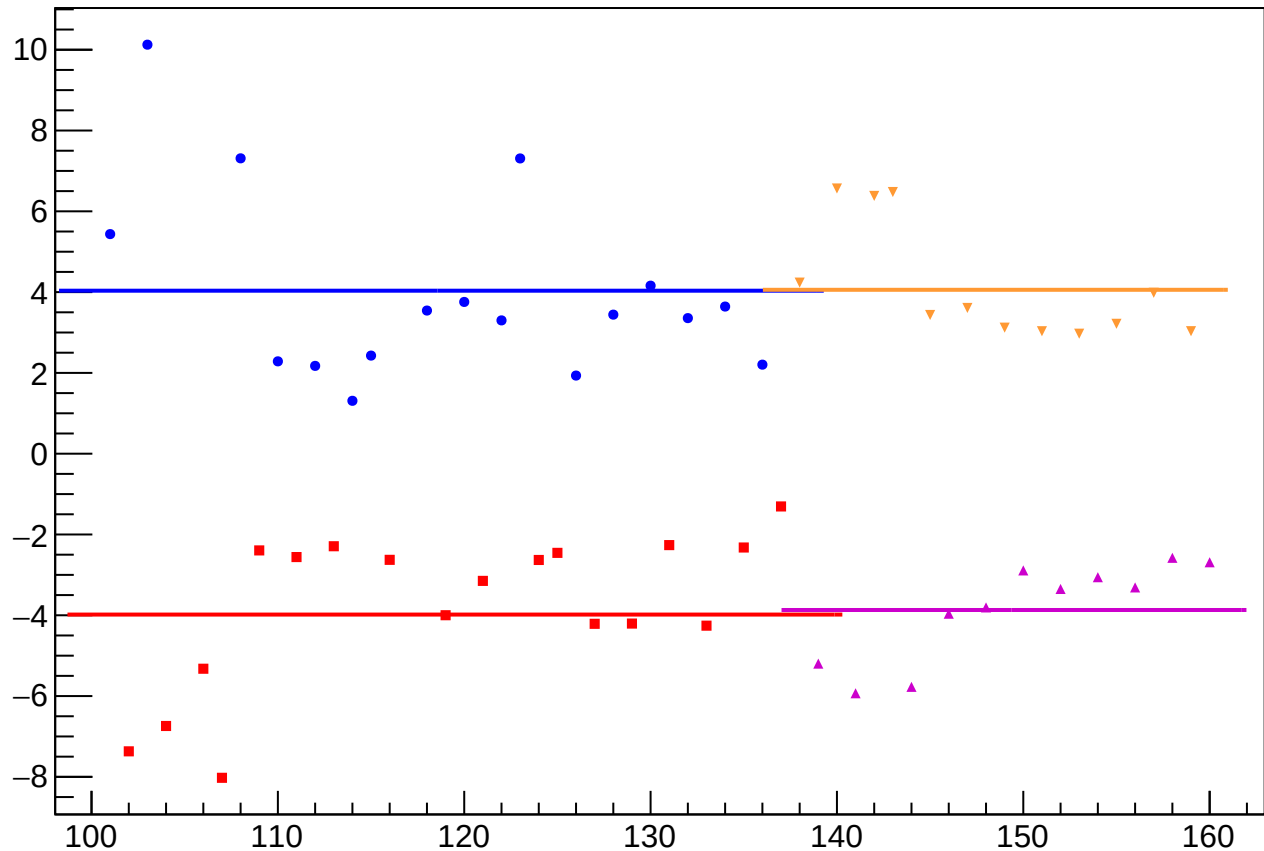
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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

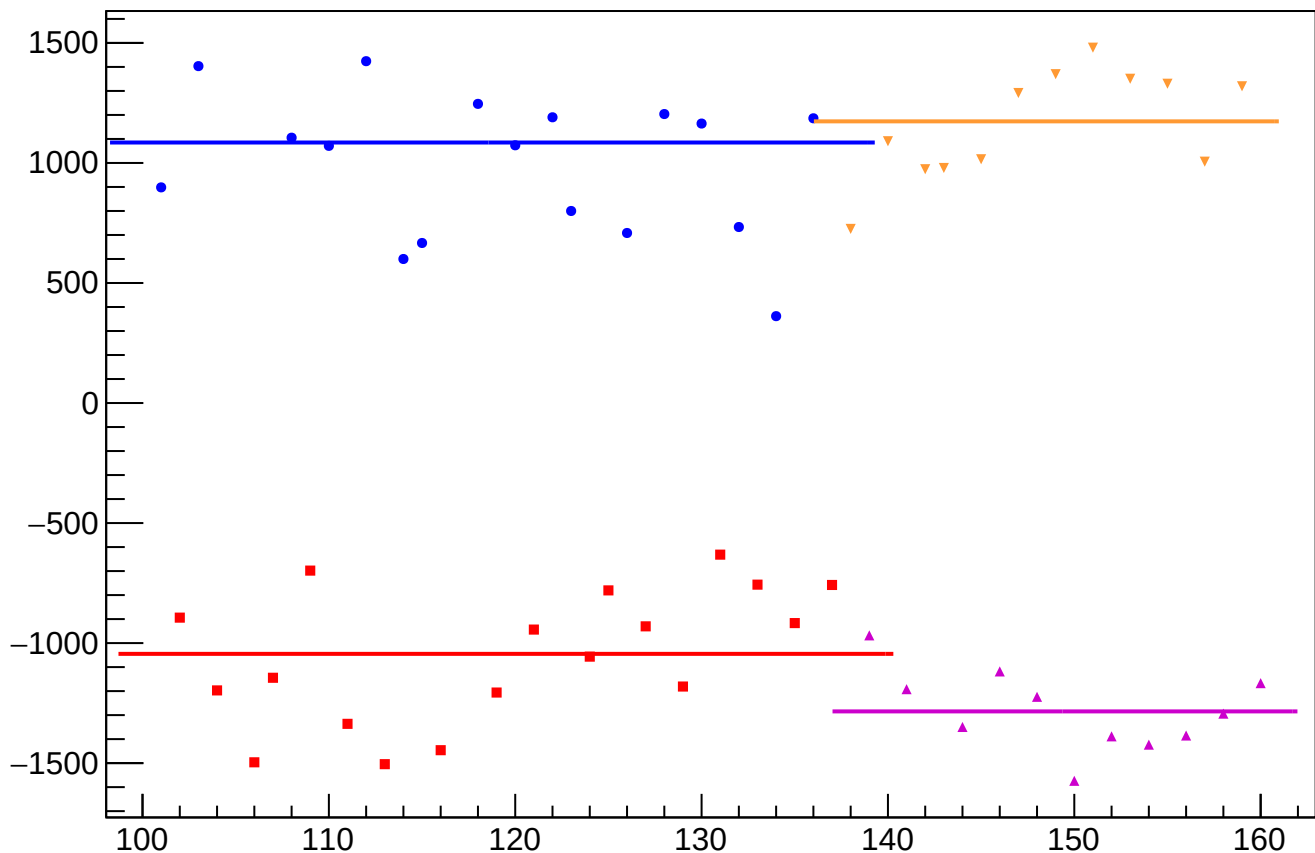
Right: -0.034 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2896164909760269

In: -0.498 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 298470622744878101

Out: 0.518 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 300849190851869307

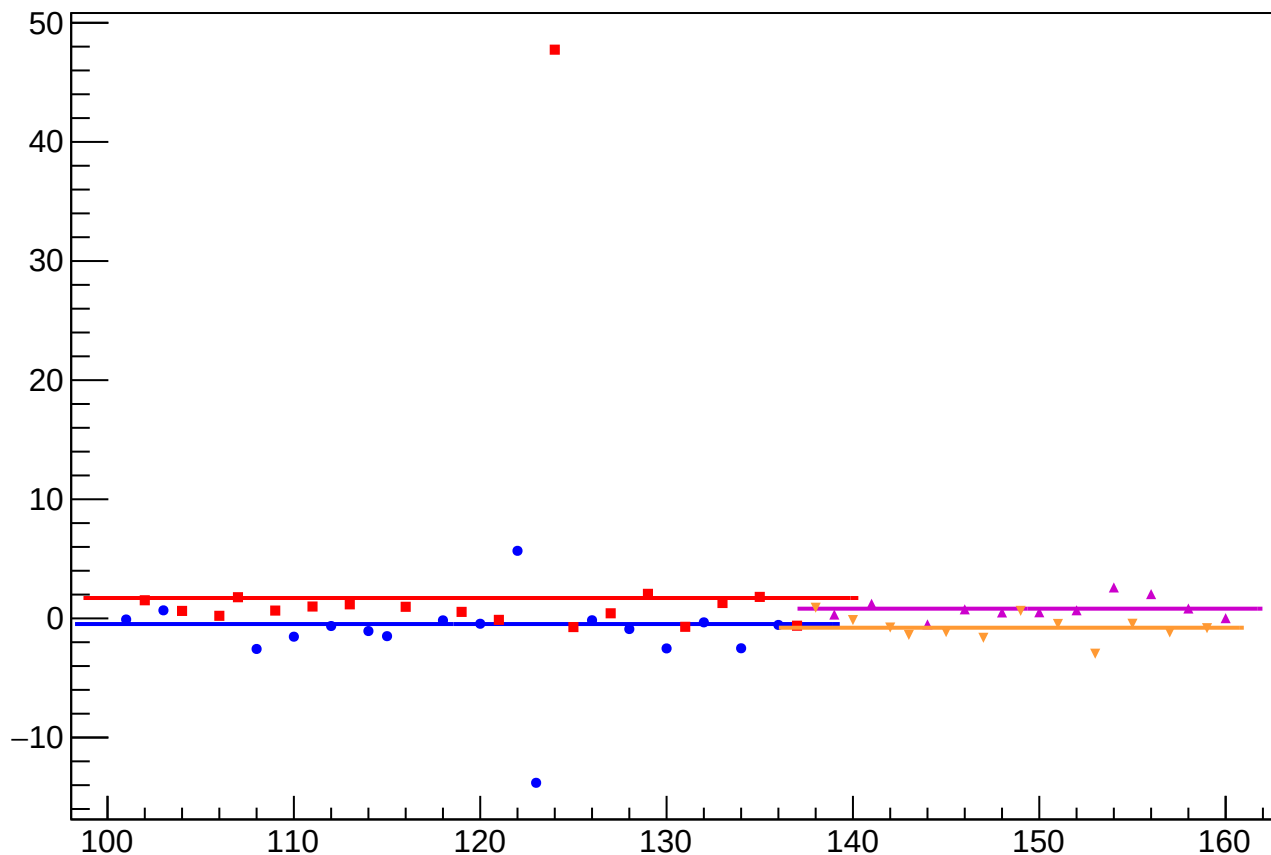
All: 0.009 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 60769913153660

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

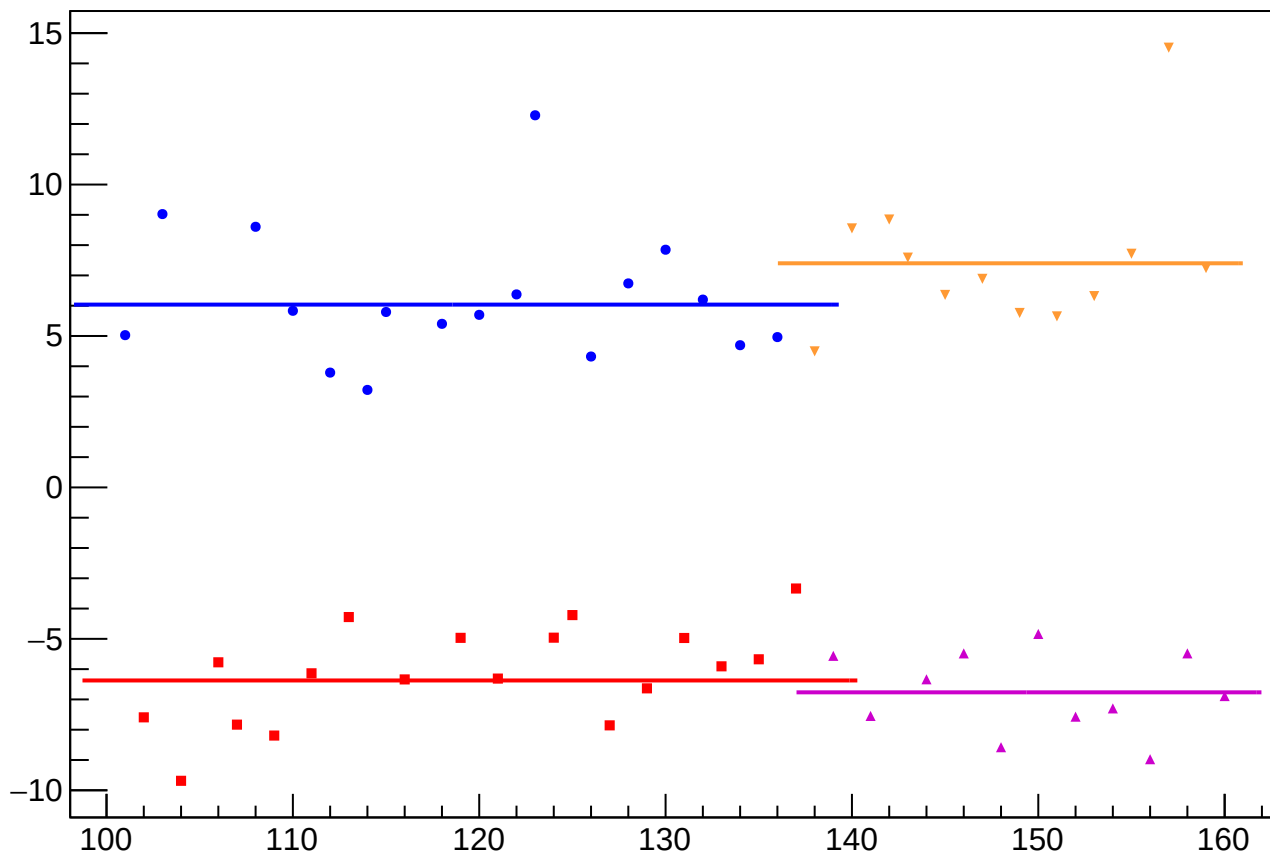
# dit\_11X12X\_coil4\_mean vs Slug, Sign Corrected



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

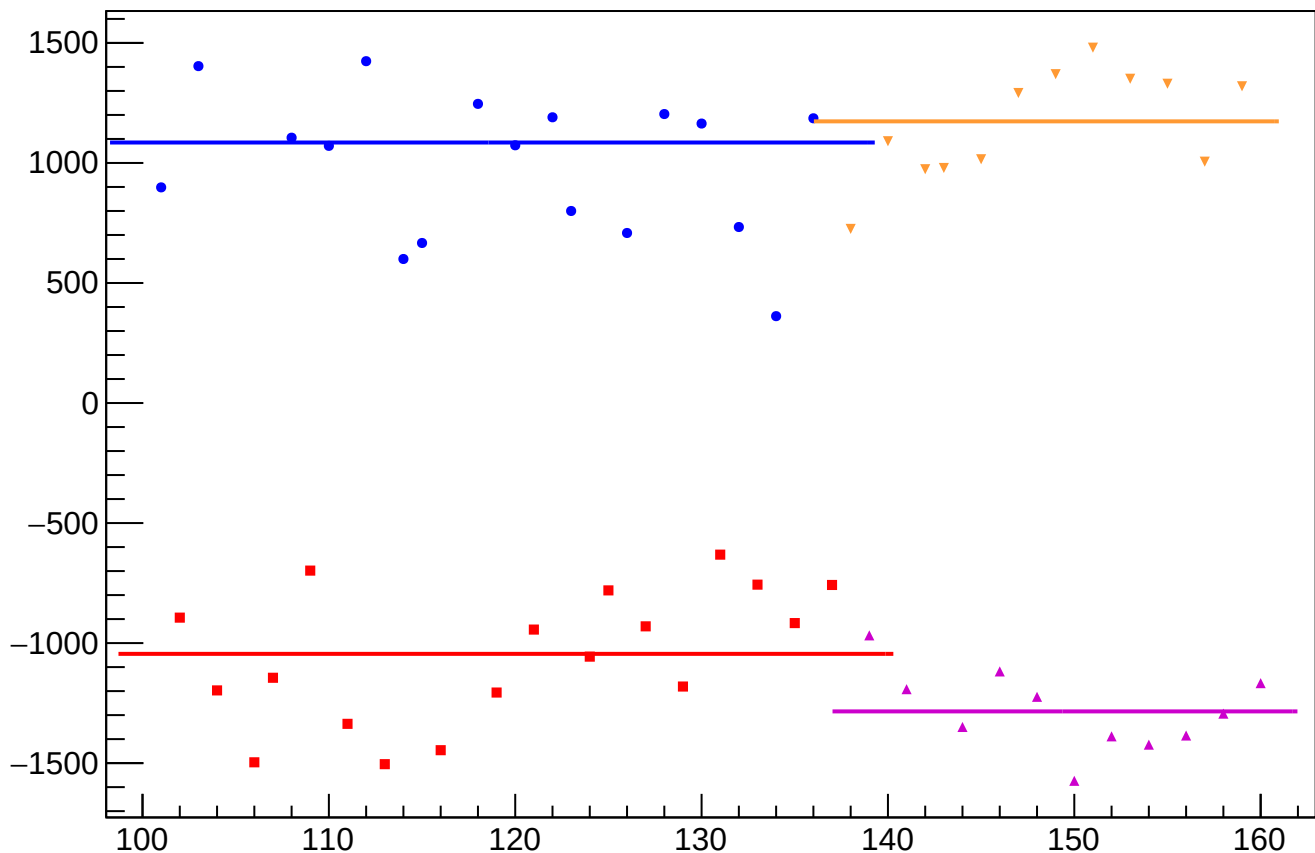


dit\_11X12X\_coil4\_err\_mean vs Slug, Sign Corrected



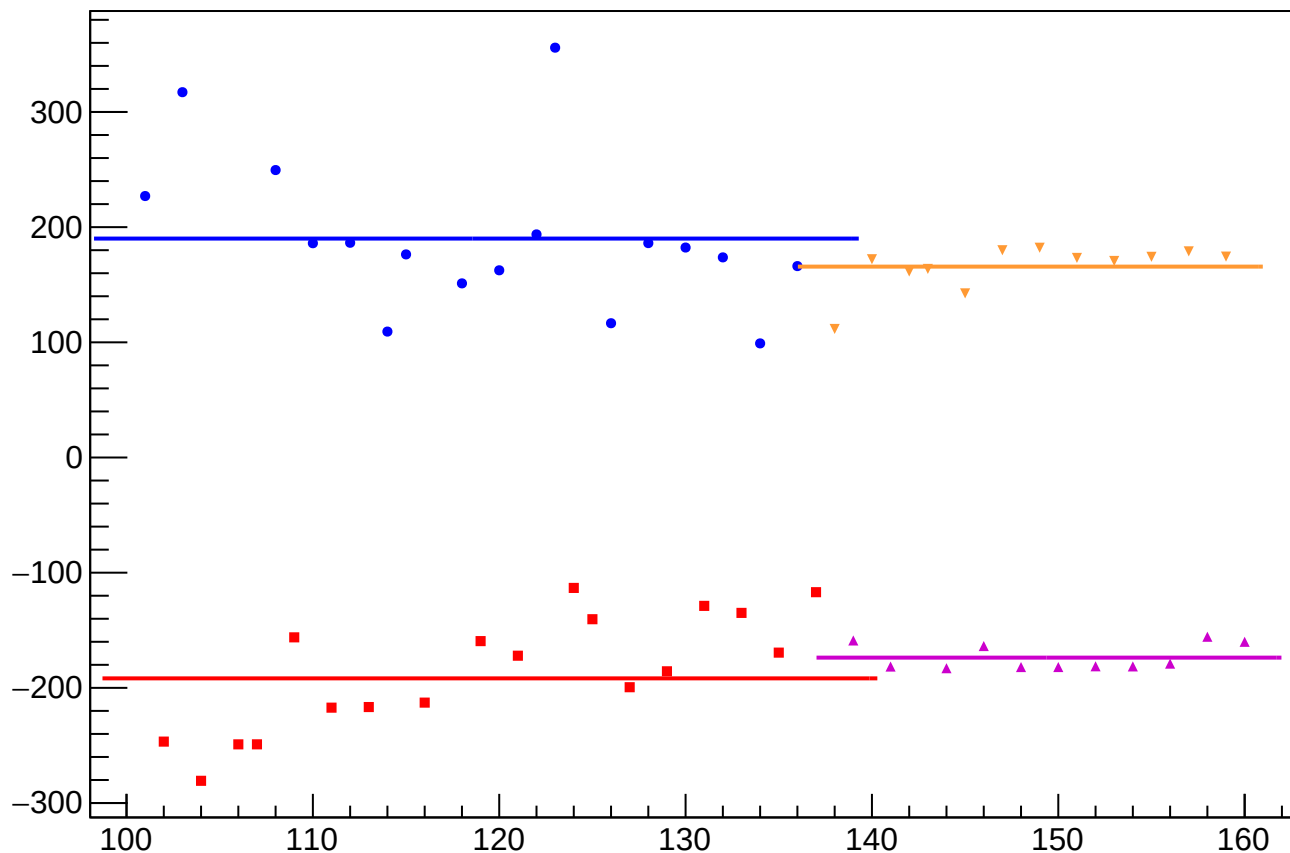
Right In: 6.036 $\pm$ 0.000  $\chi^2$ /NDF: 1834282168572363767997793128415232.0/16  
 Left Out: 7.400 $\pm$ 0.000  $\chi^2$ /NDF: 5295448681829047225809354325229568.0/11  
 Right Out: -6.374 $\pm$ 0.000  $\chi^2$ /NDF: 1775962730889931898255737308053504.0/17  
 Left In: -6.766 $\pm$ 0.000  $\chi^2$ /NDF: 1543455485673800968010090913202176.0/10  
 All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 15727417011550

dit\_11X12X\_coil4\_Ndata\_mean vs Slug, Sign Corrected



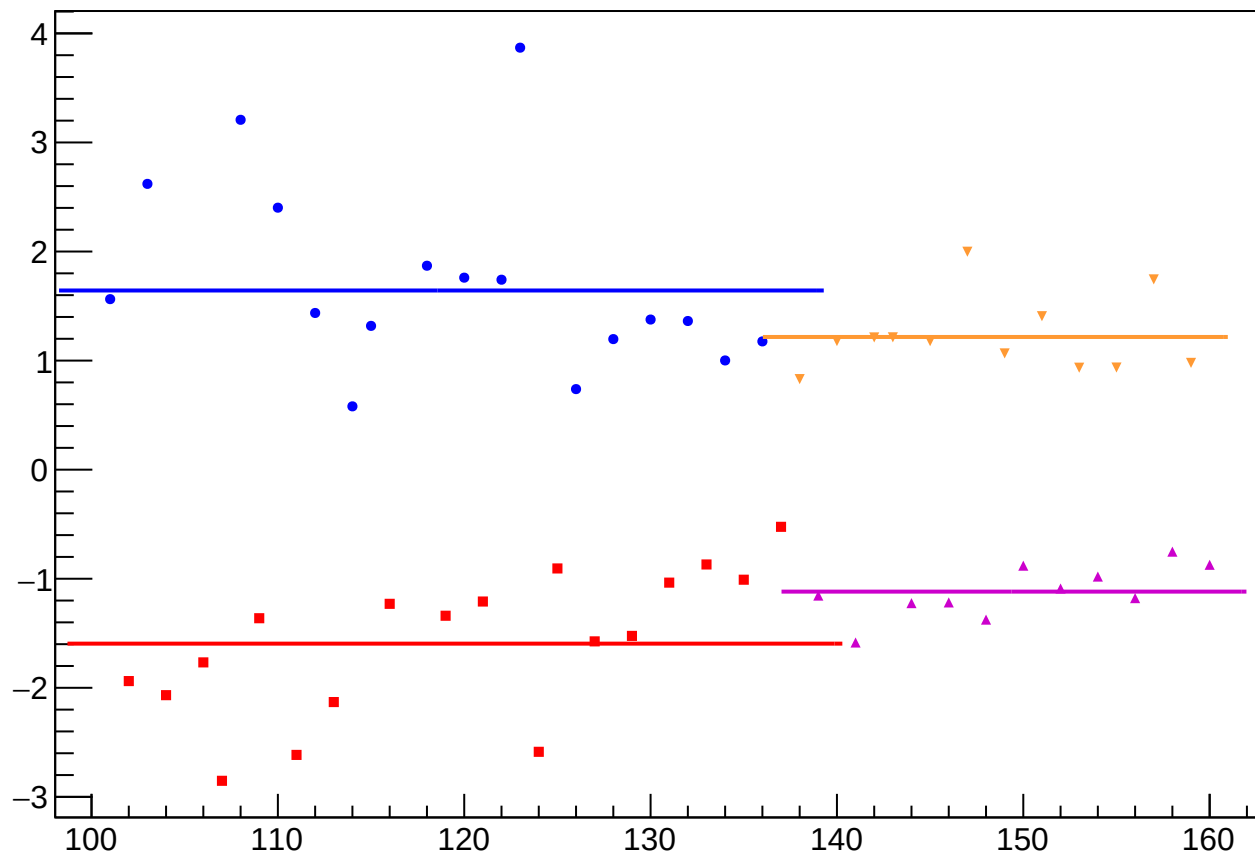
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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



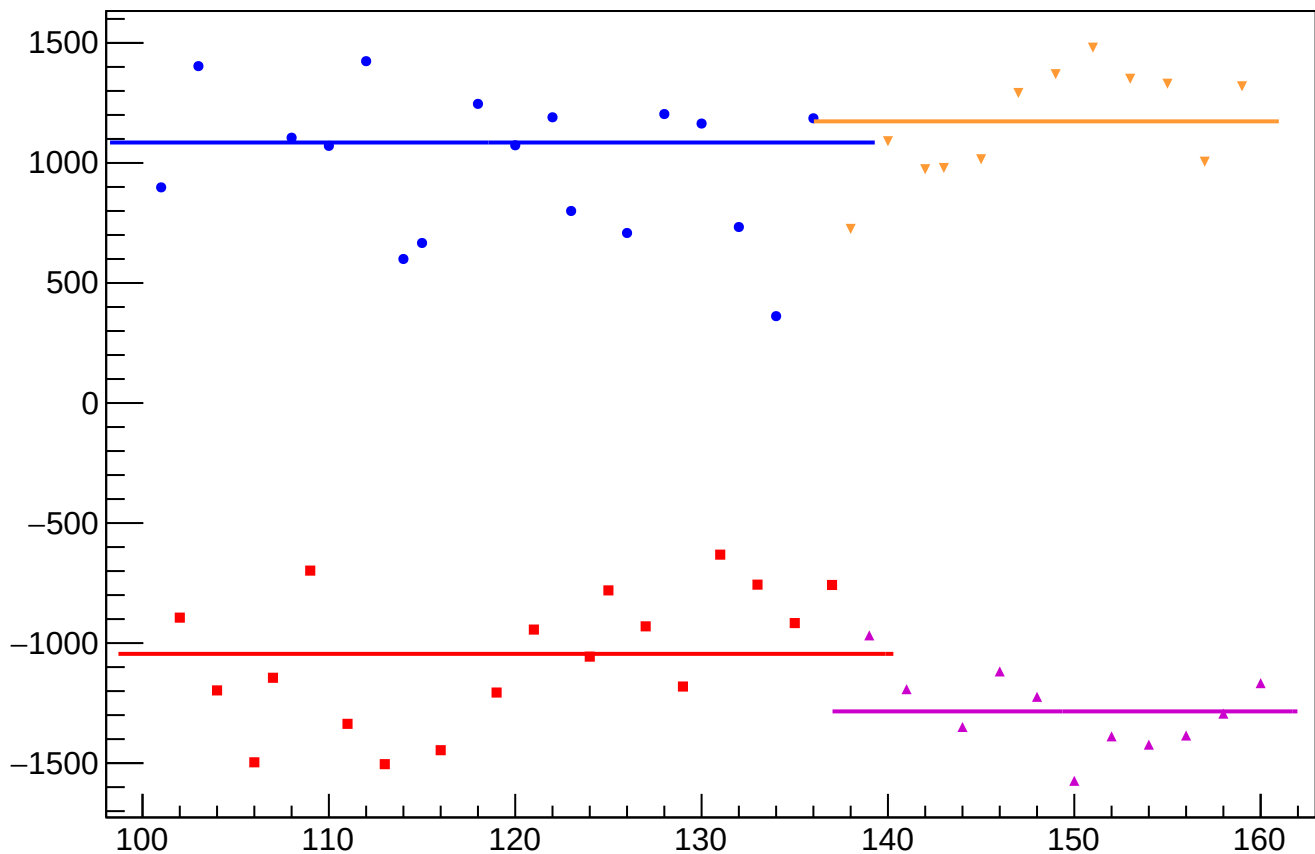
Right In:  $190.085 \pm 0.000$   $\chi^2/\text{NDF}: 1925698803891151227234396073587900416.0/16$   
 Left Out:  $165.739 \pm 0.000$   $\chi^2/\text{NDF}: 344682497656901428032567062567059456.0/11$   
 Right Out:  $-191.757 \pm 0.000$   $\chi^2/\text{NDF}: 1600653754892471682568282524337831936.0/17$   
 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



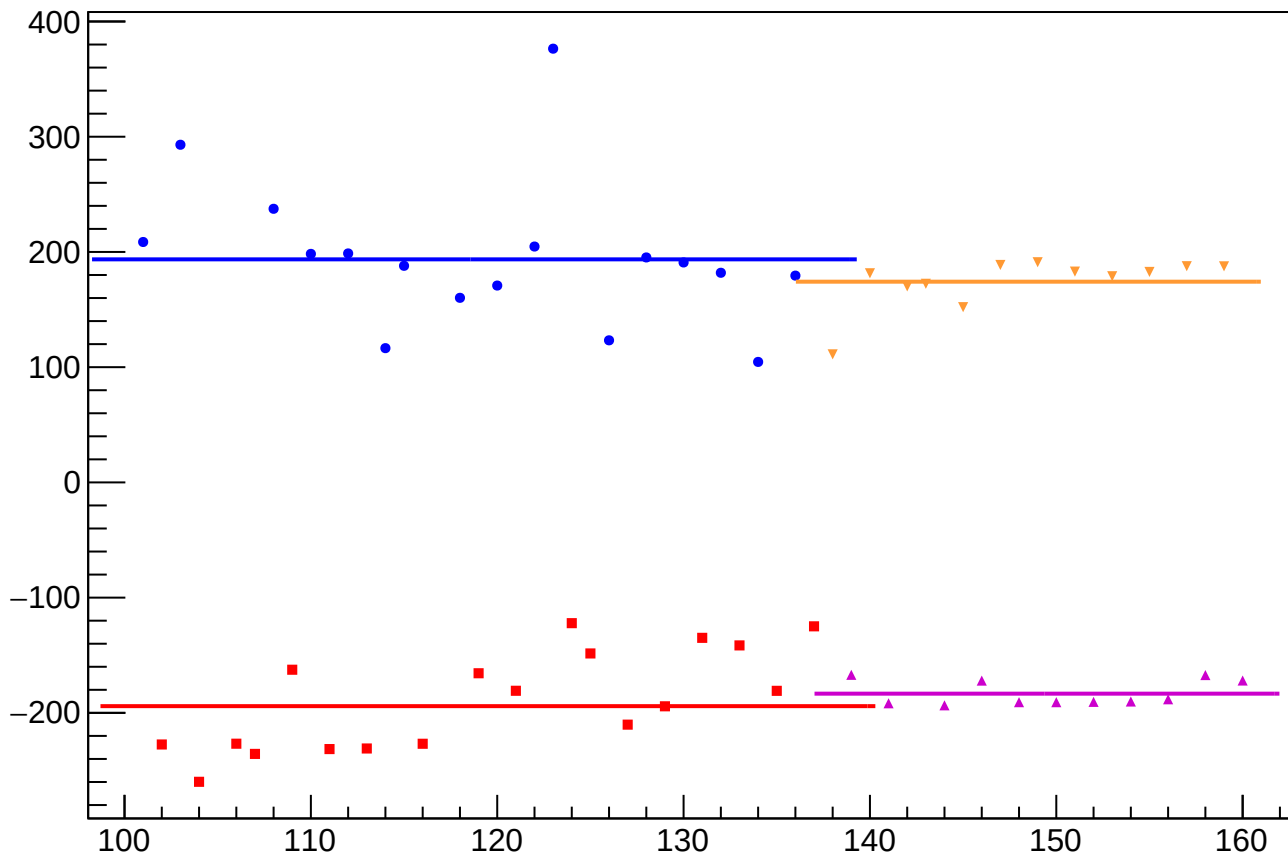
Right In:  $1.643 \pm 0.000$   $\chi^2/\text{NDF}$ : 289253300871261454870716449030144.0/16  
 Left Out:  $1.217 \pm 0.000$   $\chi^2/\text{NDF}$ : 102394613447491283246123057152000.0/11  
 Right Out:  $-1.595 \pm 0.000$   $\chi^2/\text{NDF}$ : 253487865182855947655895326916608.0/17  
 Left In:  $-1.118 \pm 0.000$   $\chi^2/\text{NDF}$ : 49044430342731068780186328629248.0/10  
 All:  $0.019 \pm 0.000$   $\chi^2/\text{NDF}$ : 68970144318089

dit\_4aY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



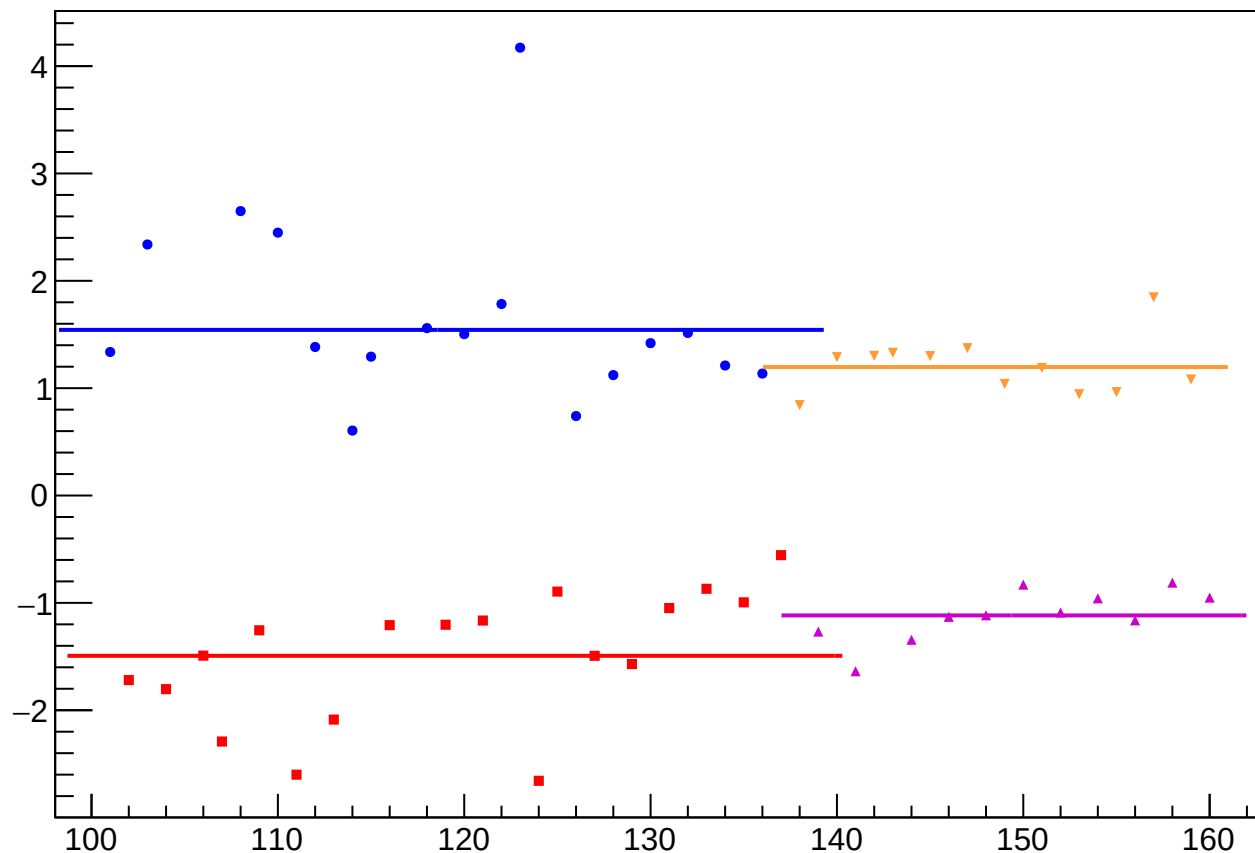
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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



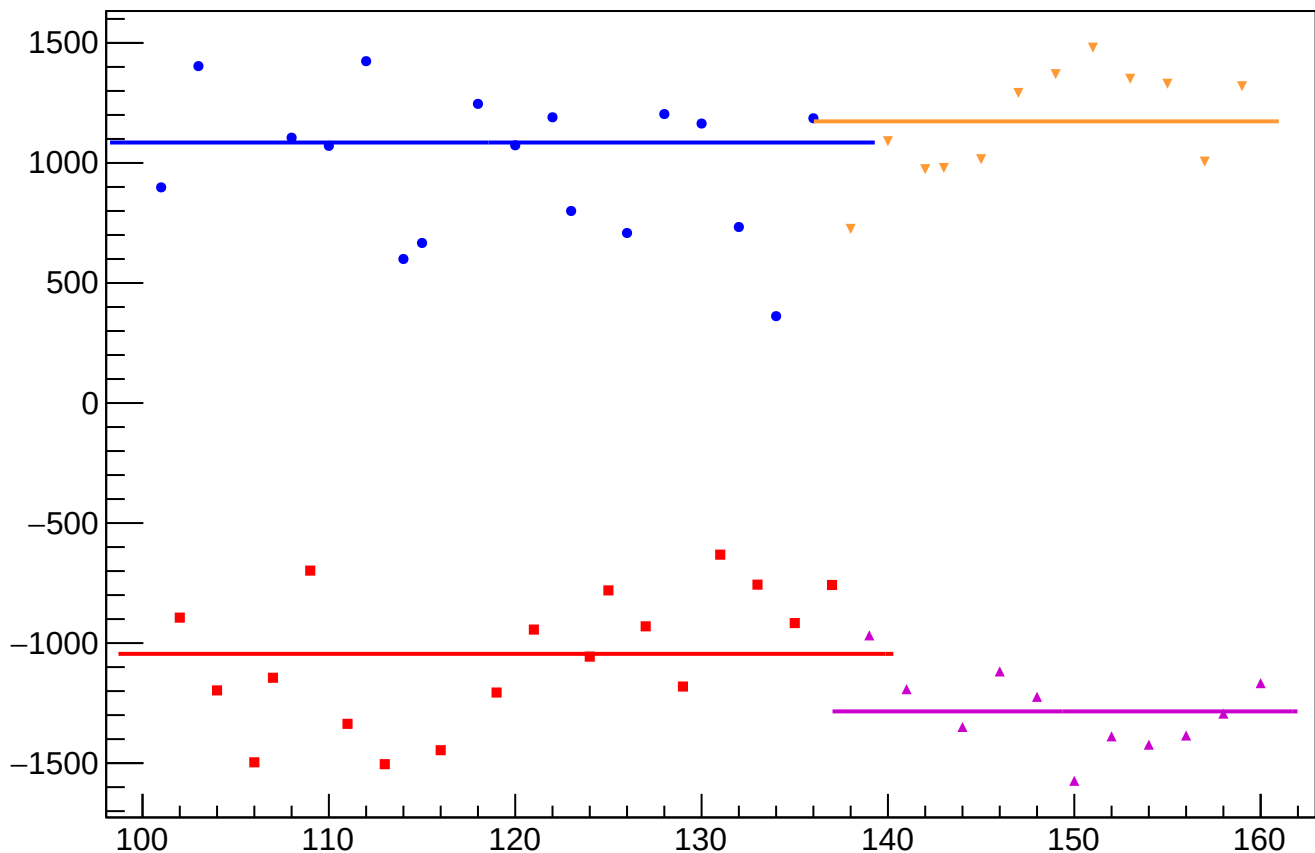
Right In: 193.573 $\pm$ 0.000  $\chi^2$ /NDF: 1351064334288465855493252395600707584.0/16  
 Left Out: 174.198 $\pm$ 0.000  $\chi^2$ /NDF: 435157803959110752164132199015120896.0/11  
 Right Out: -194.177 $\pm$ 0.000  $\chi^2$ /NDF: 1137351144016205804609551236362928128.0/17  
 Left In: -183.338 $\pm$ 0.000  $\chi^2$ /NDF: 99283390921198074748427132624437248.0/10  
 All: -5.292 $\pm$ 0.000  $\chi^2$ /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

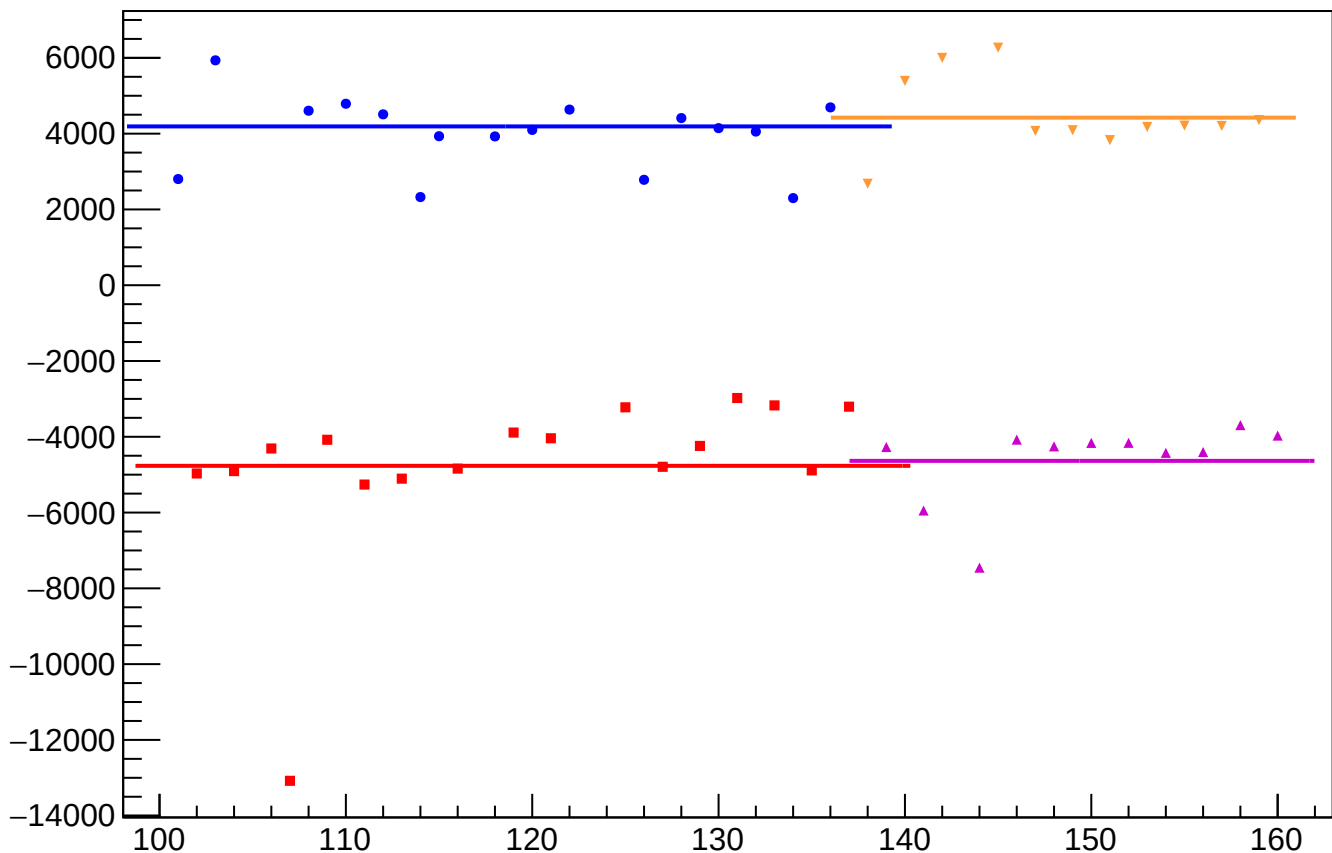
dit\_4eY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                       |                                         |
|------------------------------|-------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: -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      |

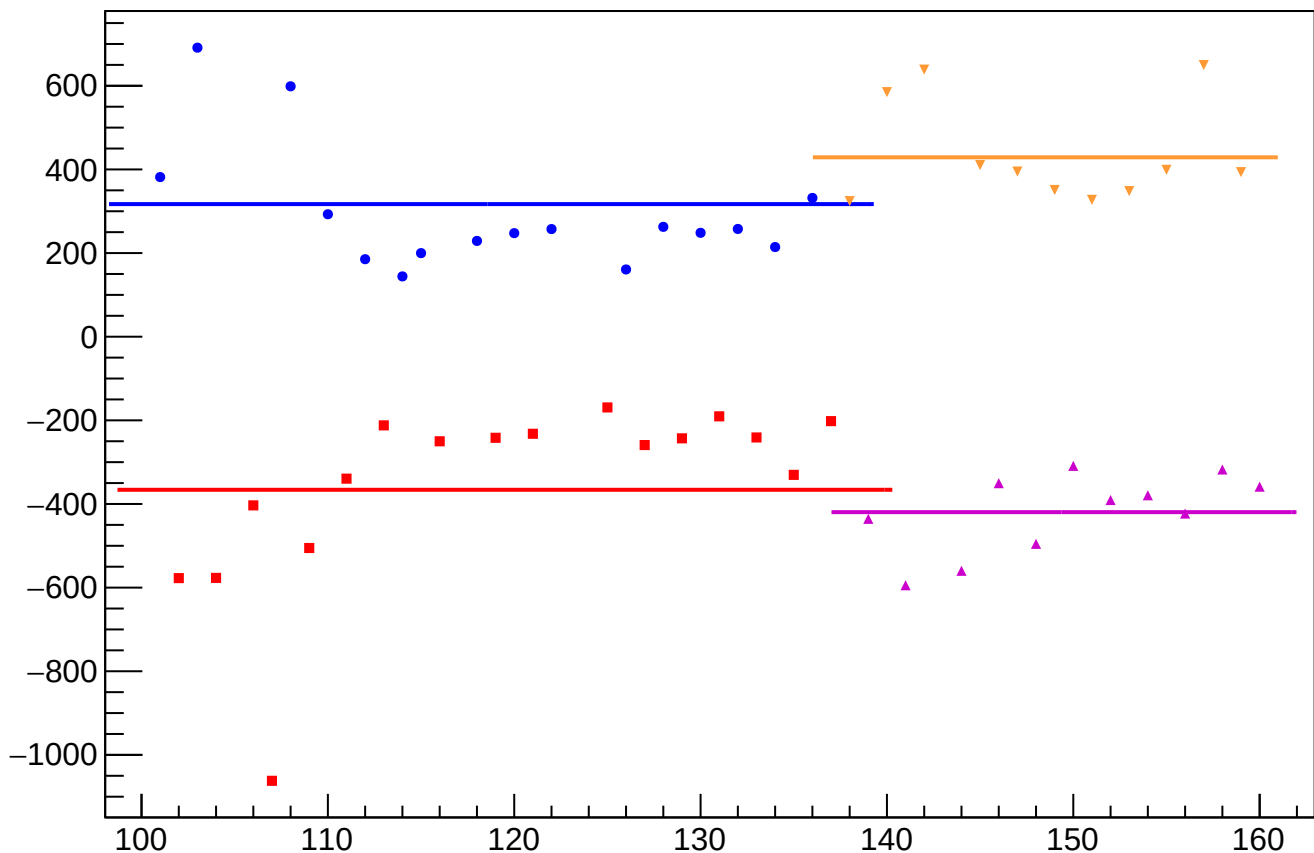


# dit\_usl\_coil4\_mean vs Slug, Sign Corrected



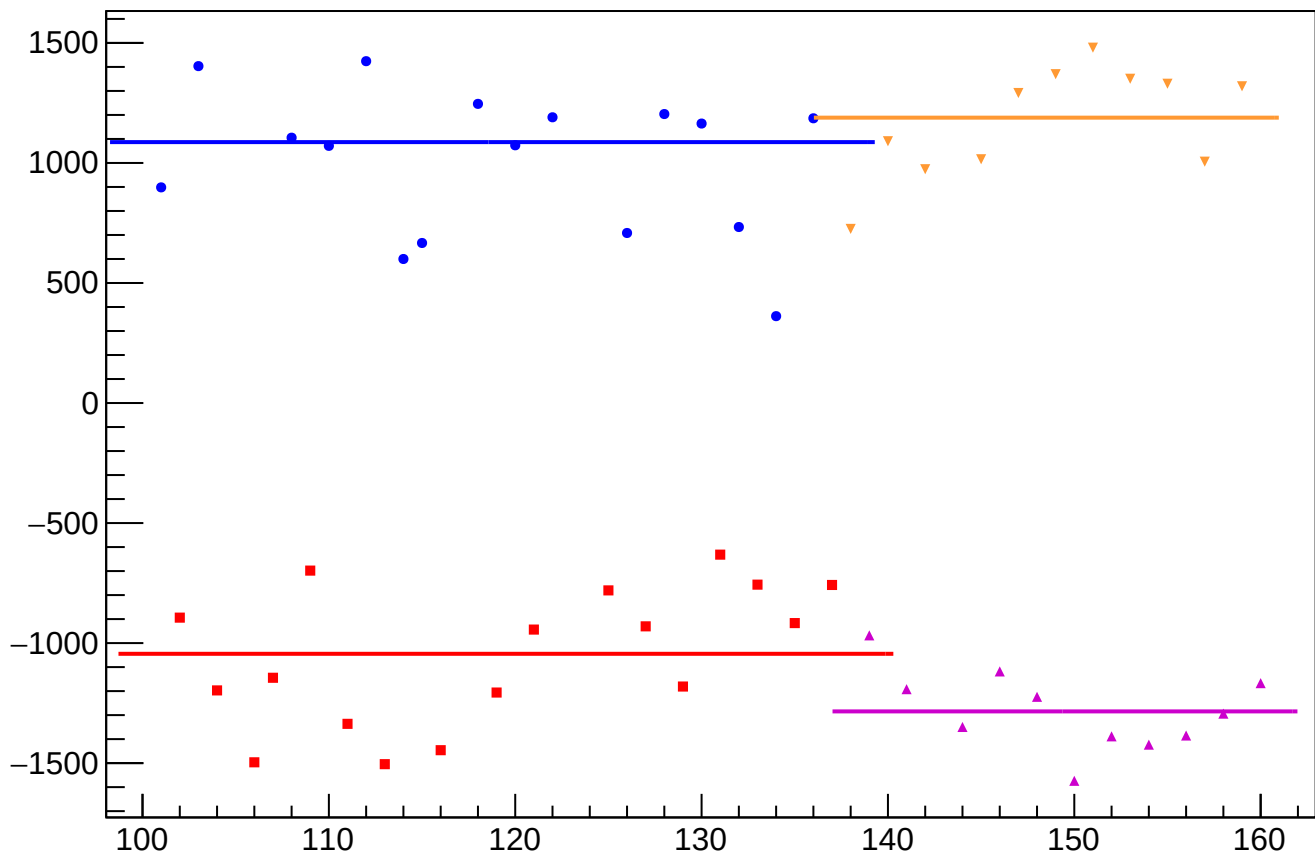
Right In: 4190.973+/-0.000  $\chi^2/\text{NDF}$ : 554038134535494230935556440305969397760.0/15  
 Left Out: 4422.510+/-0.000  $\chi^2/\text{NDF}$ : 753196682646313209134126931375441313792.0/10  
 Right Out: -4766.714+/-0.000  $\chi^2/\text{NDF}$ : 2969196242721495635889986773908602224640.0/16  
 Left 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



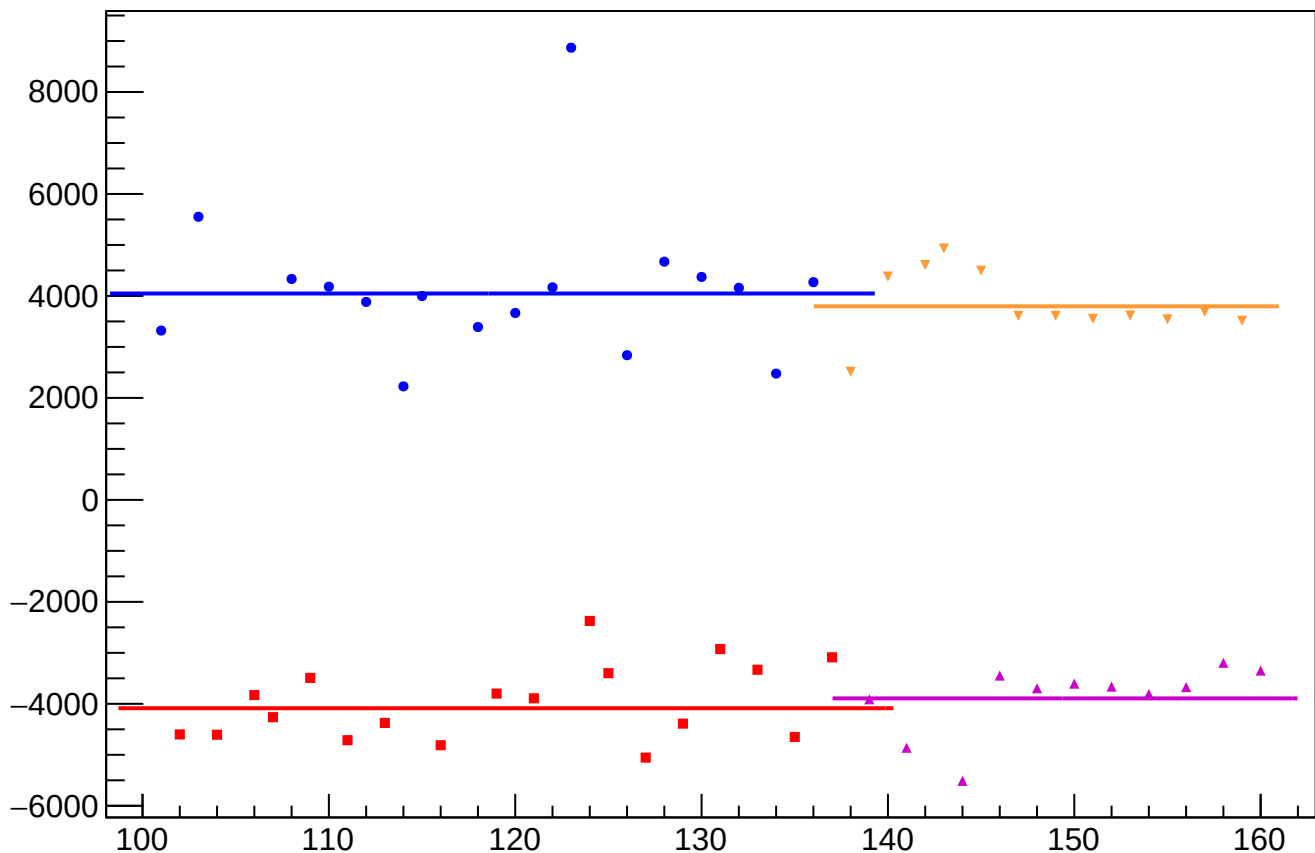
Right In: 317.084+/-0.000  $\chi^2/\text{NDF}$ : 15440276359245580191741047920465543168.0/15  
 Left Out: 428.978+/-0.000  $\chi^2/\text{NDF}$ : 10626522837529690140021114504579383296.0/10  
 Right Out: -366.053+/-0.000  $\chi^2/\text{NDF}$ : 31157973605683459615642144815175434240.0/16  
 Left In: -419.525+/-0.000  $\chi^2/\text{NDF}$ : 7733869691626146763225313004956418048.0/10  
 All: -21.488+/-0.000  $\chi^2/\text{NDF}$ : 545956988188

dit\_usl\_coil4\_Ndata\_mean vs Slug, Sign Corrected



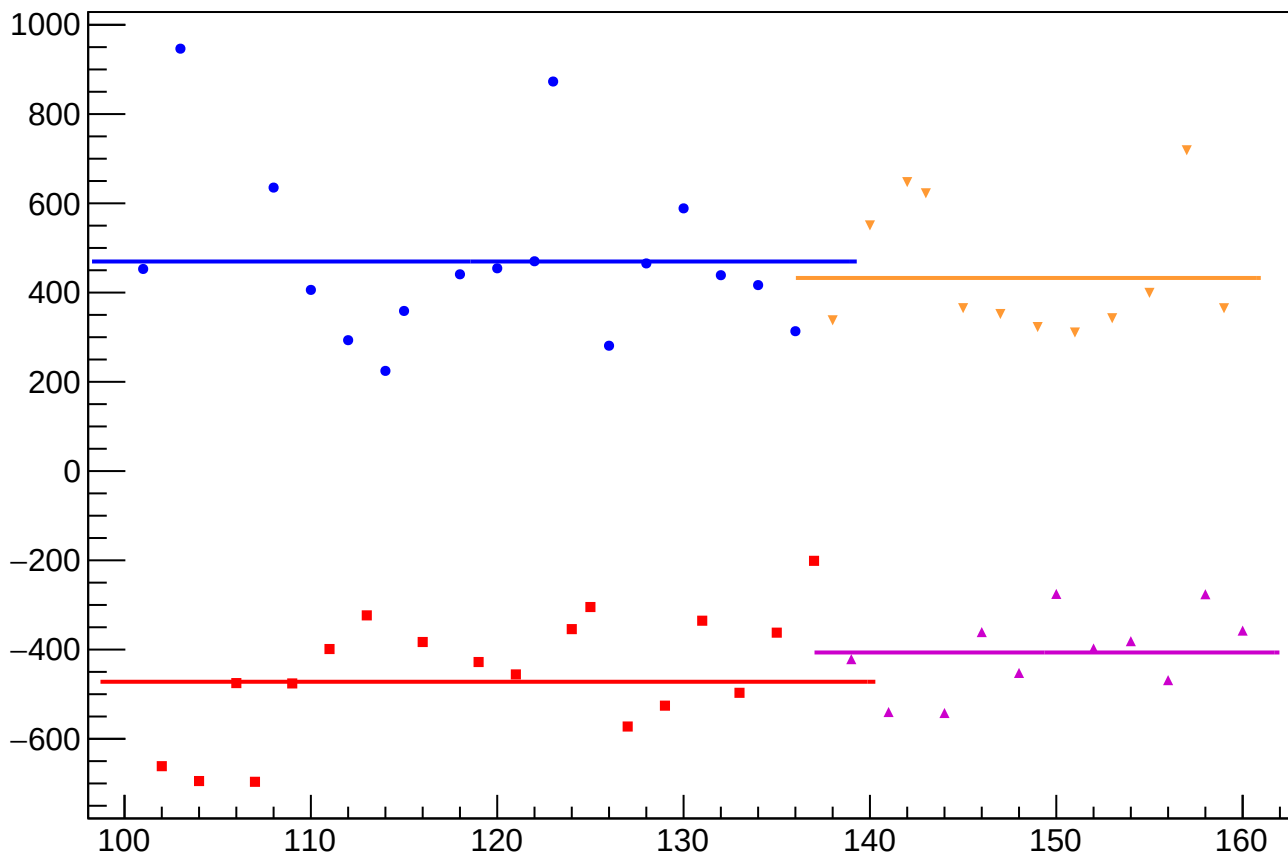
Right In: 1086.839+/-0.000  $\chi^2/\text{NDF}$ : 44275849492978077110615226297834536960.0/15  
 Left Out: 1188.739+/-0.000  $\chi^2/\text{NDF}$ : 39812899139477527607362290262896279552.0/10  
 Right Out: -1044.621+/-0.000  $\chi^2/\text{NDF}$ : 50844042601115178022623217176499191808.0/16  
 Left In: -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

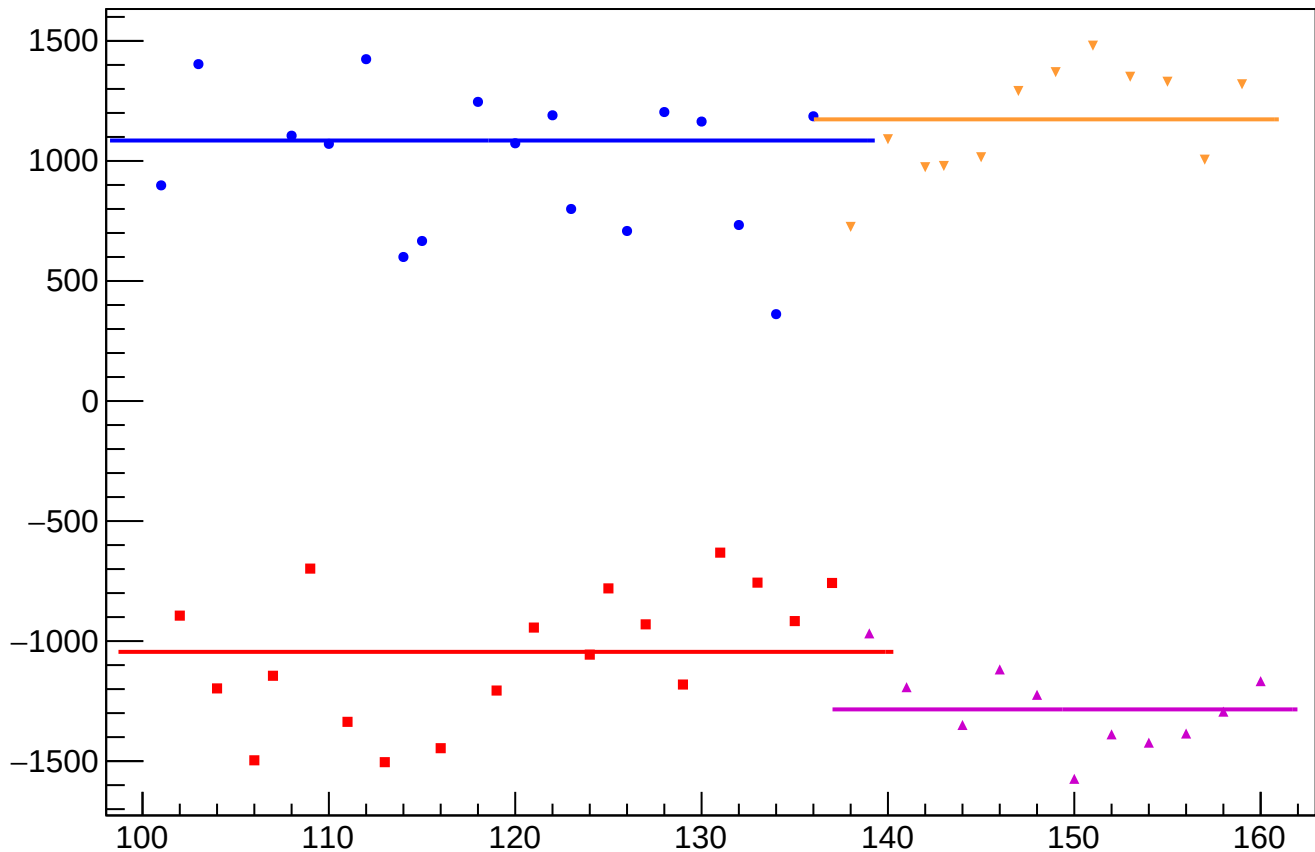
Left Out: 432.752 $\pm$ 0.000  $\chi^2$ /NDF: 16613778156502227039812648208749821952.0/11

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

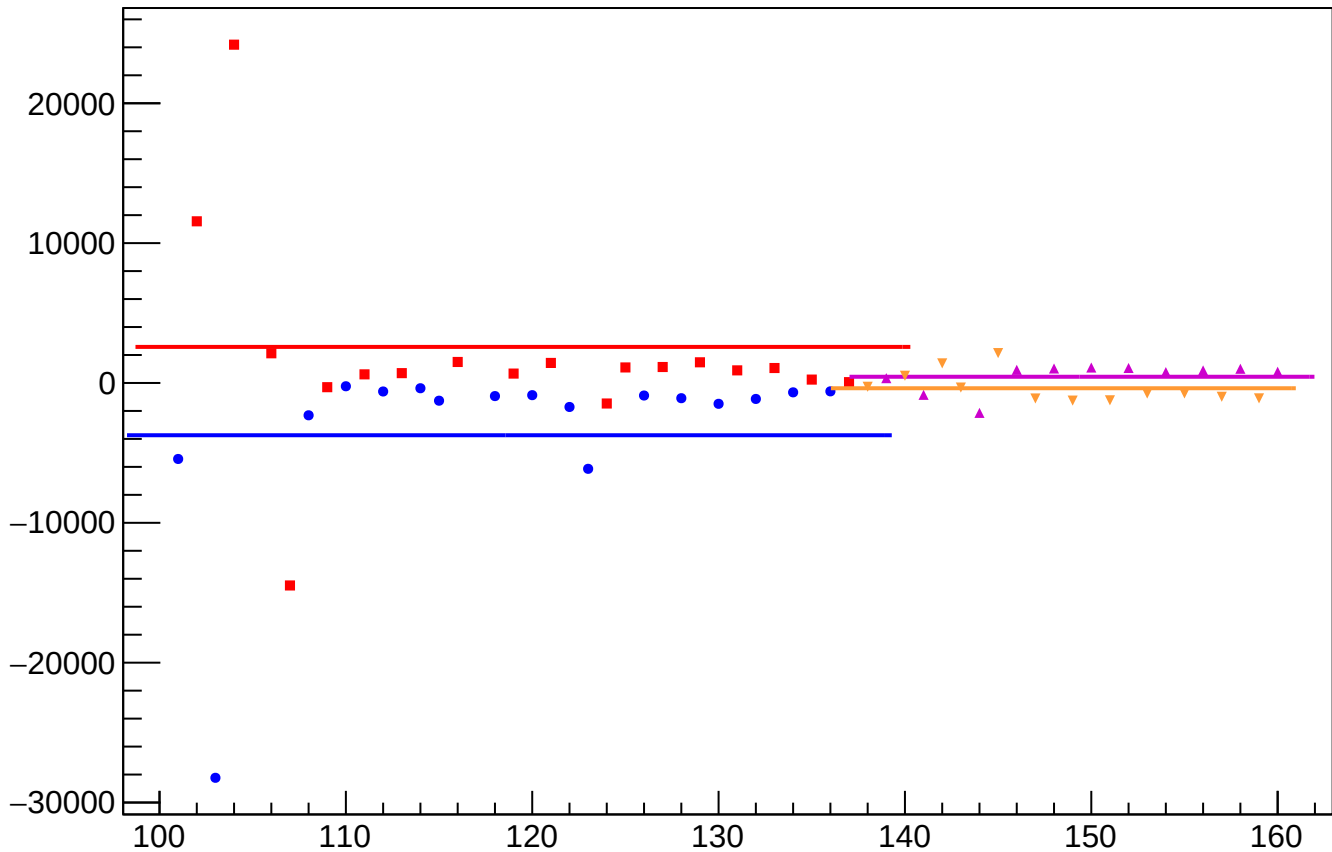
All: 0.759 $\pm$ 0.000  $\chi^2$ /NDF: 69510091565194

dit\_usr\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                                    |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: -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\_atl1\_coil4\_mean vs Slug, Sign Corrected



Right In: -3737.261+/-0.000

$\chi^2/\text{NDF}$ : 39970682954500817220133496875438988853248.0/16

Left Out: -377.495+/-0.000

$\chi^2/\text{NDF}$ : 962483060737220205564221178088372830208.0/11

Right Out: 2578.788+/-0.000

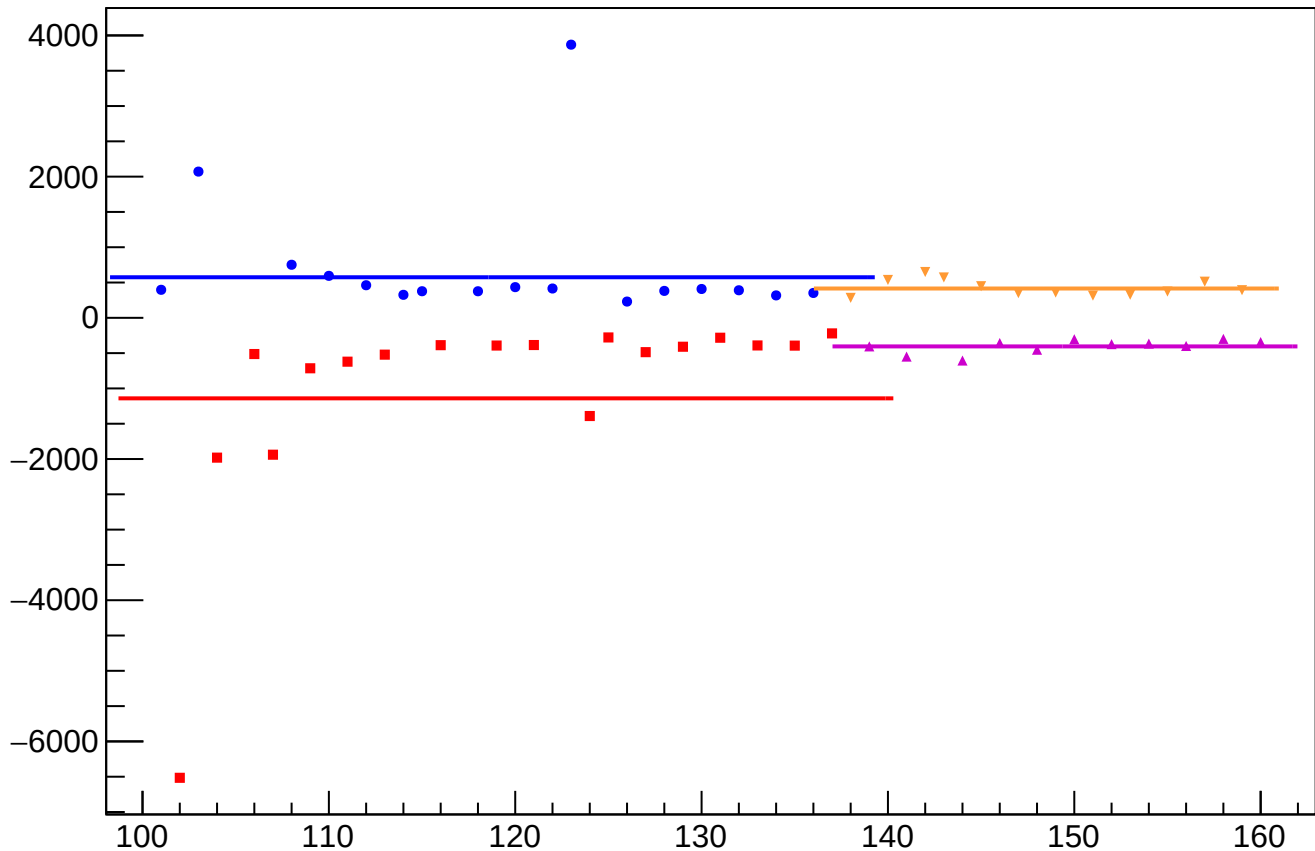
$\chi^2/\text{NDF}$ : 41033783209718443304558448411646302879744.0/17

Left In: 444.428+/-0.000

$\chi^2/\text{NDF}$ : 923276009049297948790551518127417458688.0/10

All: -208.649+/-0.000  $\chi^2/\text{NDF}$ : 97510545741

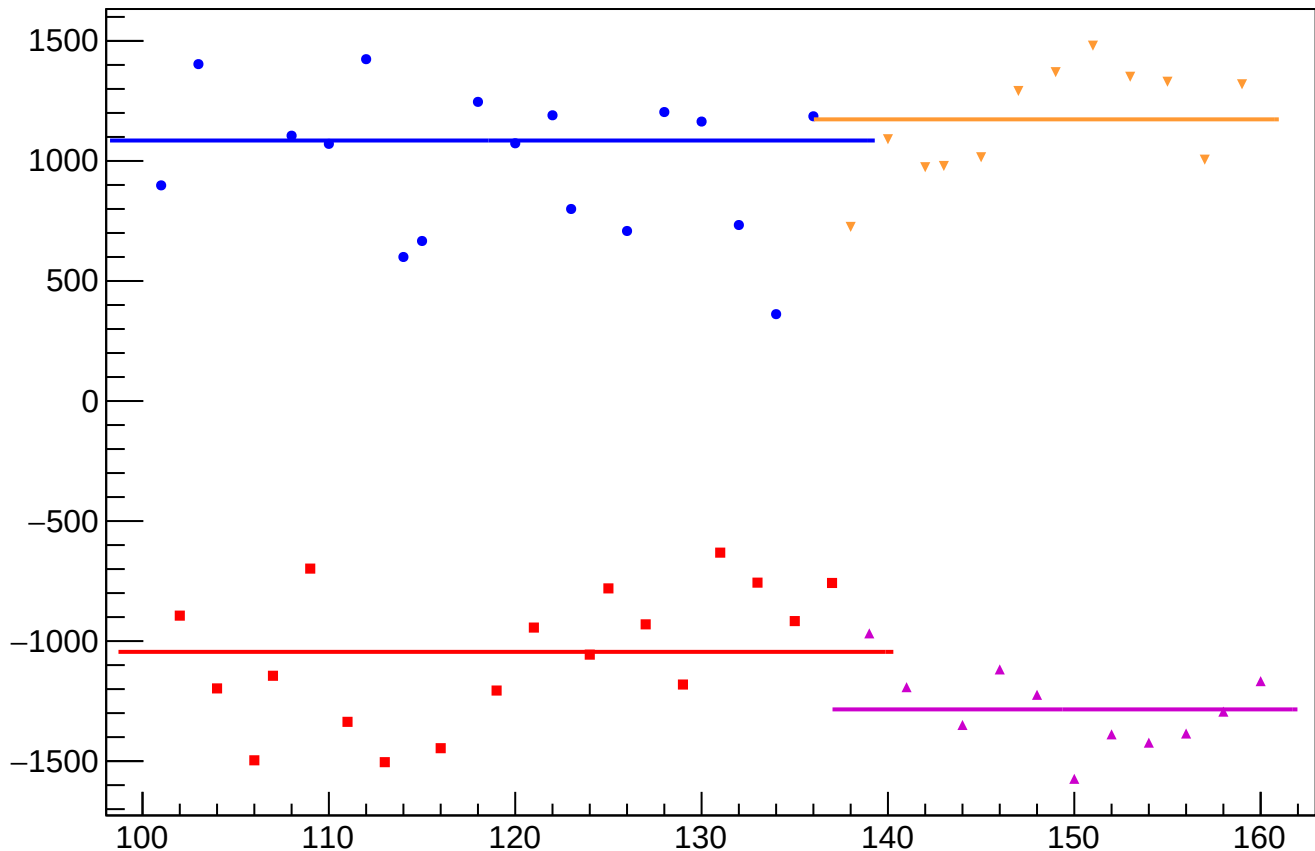
dit\_atl1\_coil4\_err\_mean vs Slug, Sign Corrected



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

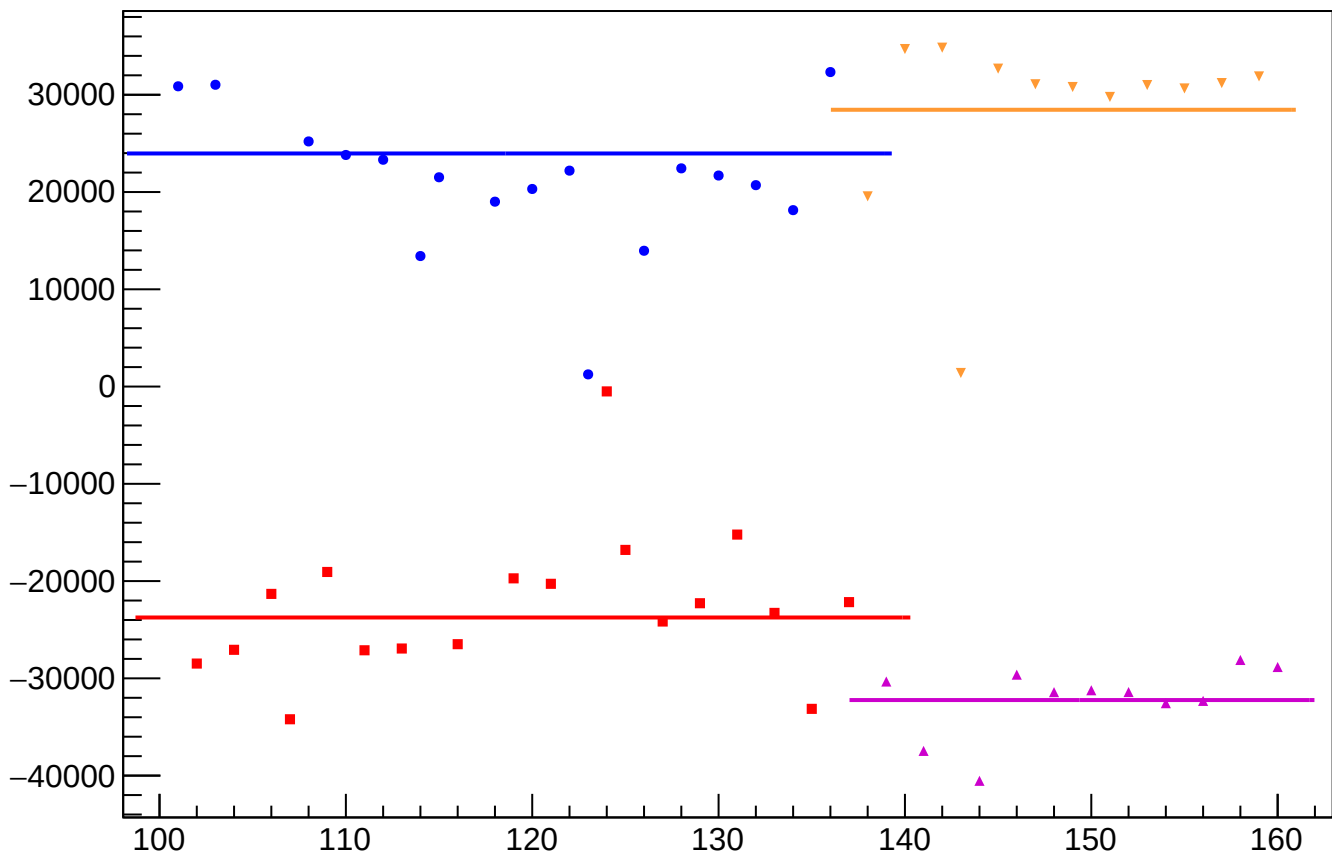


dit\_atl1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left 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\_atl2\_coil4\_mean vs Slug, Sign Corrected



Right In: 23965.147+/-0.000

Left: -2282.243+/-0.000  $\chi^2$ /NDF: 22982900561545593794269983567622080299008.0/16

Left Out: 28458.038+/-0.000

Right: -244.715+/-0.000  $\chi^2$ /NDF: 85050414174133

Right Out: -23743.519+/-0.000

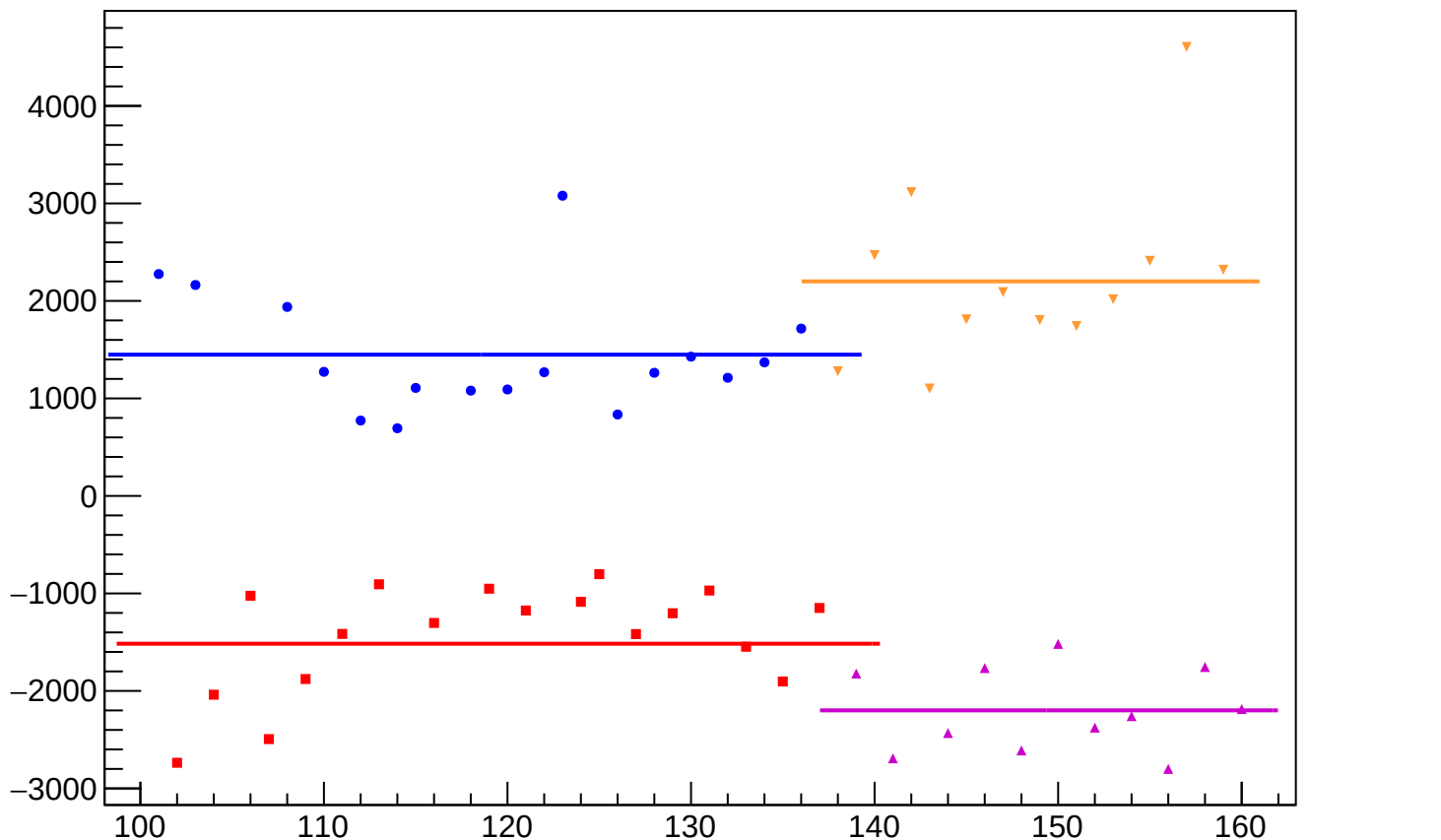
In: -8260.870+/-0.000  $\chi^2$ /NDF: 129168623898544

Left In: -32231.777+/-0.000

Out: 5475.210+/-0.000  $\chi^2$ /NDF: 118177711677927

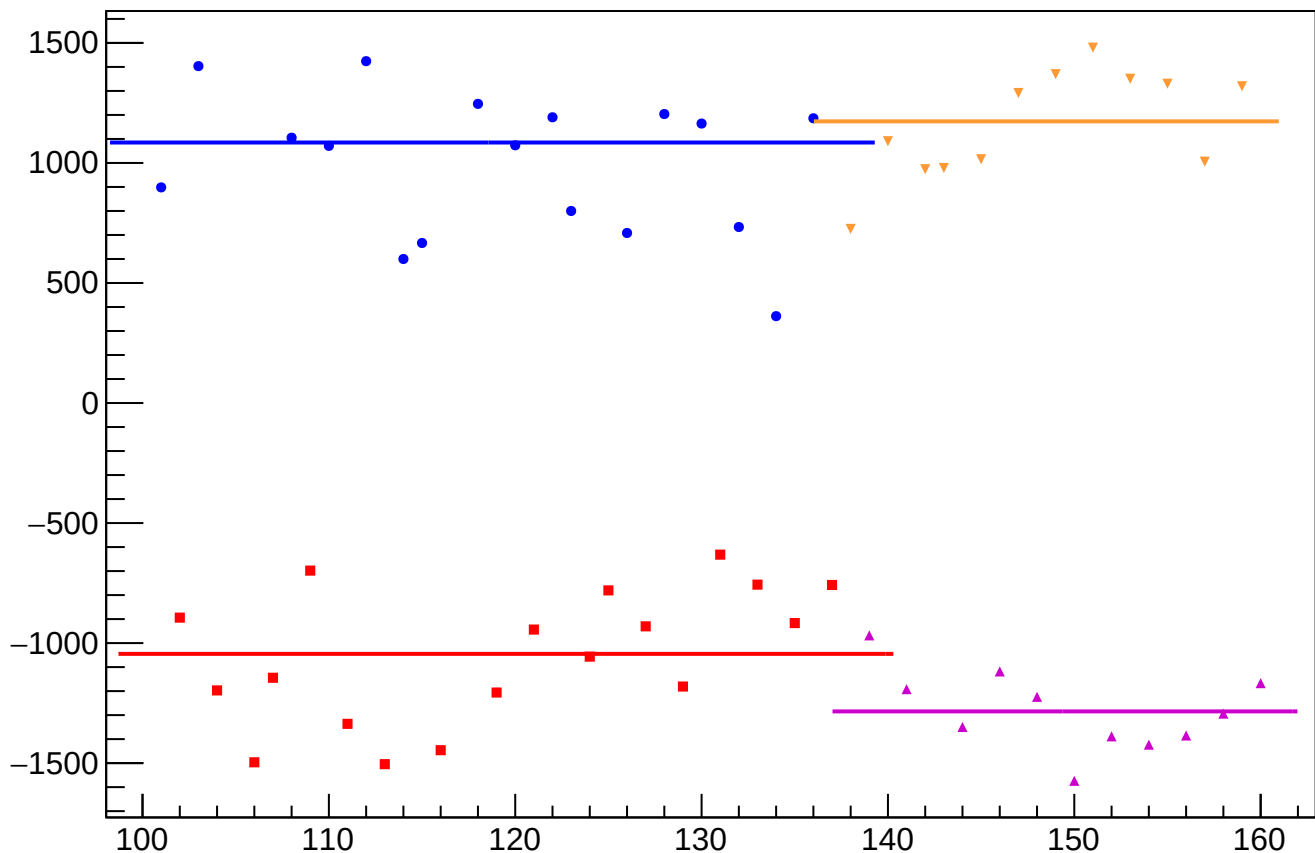
All: -1399.168+/-0.000  $\chi^2$ /NDF: 2626812808

dit\_atl2\_coil4\_err\_mean vs Slug, Sign Corrected



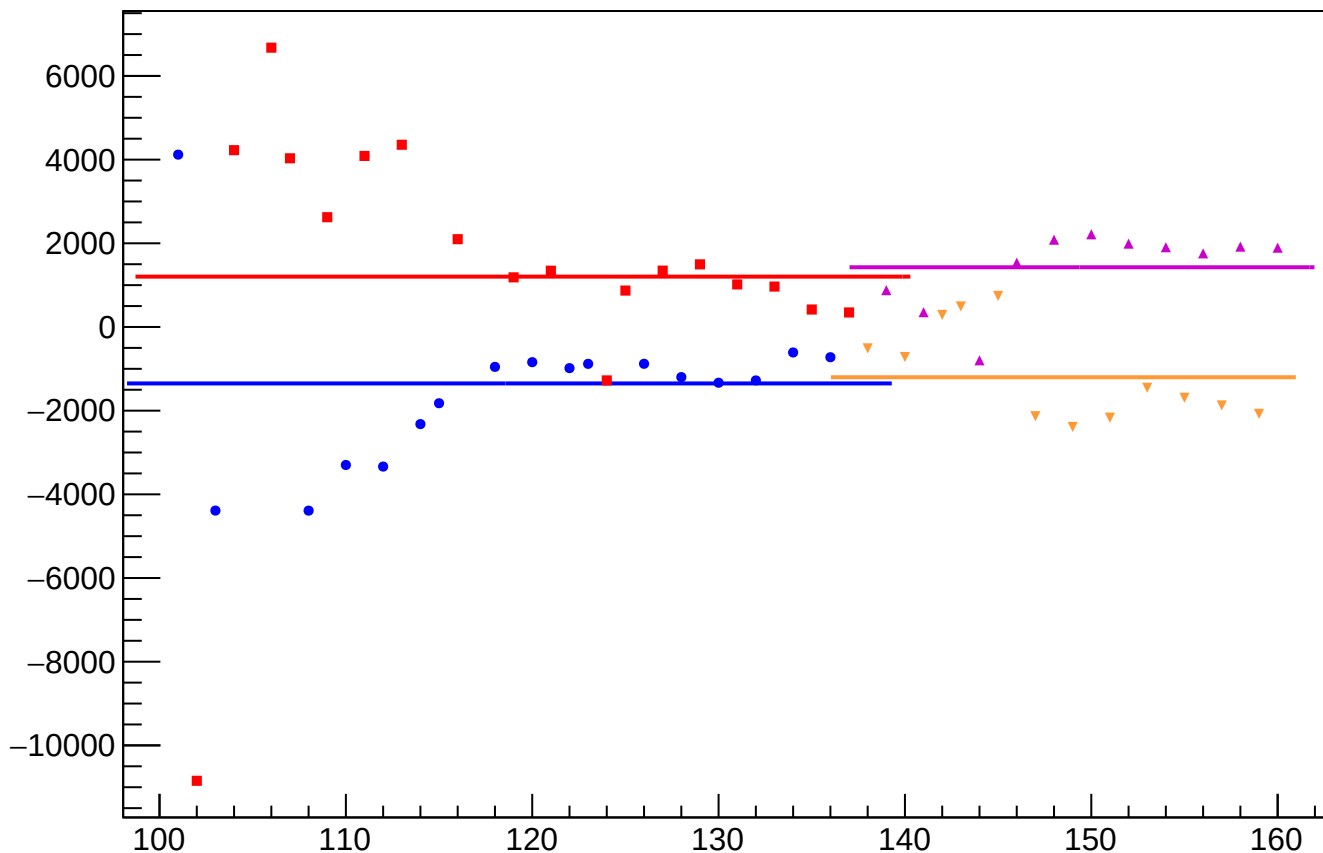
Left:  $-28.219 \pm 0.000$   $\chi^2/\text{NDF}: 9737566526790987$   
 Right In:  $1448.784 \pm 0.000$   $\chi^2/\text{NDF}: 161243667372586677805499102921584803840.0/16$   
 Right:  $-55.550 \pm 0.000$   $\chi^2/\text{NDF}: 349060323301612$   
 Left Out:  $2200.167 \pm 0.000$   $\chi^2/\text{NDF}: 669096191562201912337665879605187182592.0/11$   
 In:  $-643.193 \pm 0.000$   $\chi^2/\text{NDF}: 5614558258278717$   
 Right Out:  $-1515.702 \pm 0.000$   $\chi^2/\text{NDF}: 234412516405982646618467253110689497088.0/17$   
 Out:  $564.178 \pm 0.000$   $\chi^2/\text{NDF}: 6429427504300672$   
 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

$\chi^2/\text{NDF}$ : 3084941184045918680057306663363310256128.0/16

Left Out: -1201.551+/-0.000

$\chi^2/\text{NDF}$ : 1022278799851765665232545195889702993920.0/11

Right Out: 1203.612+/-0.000

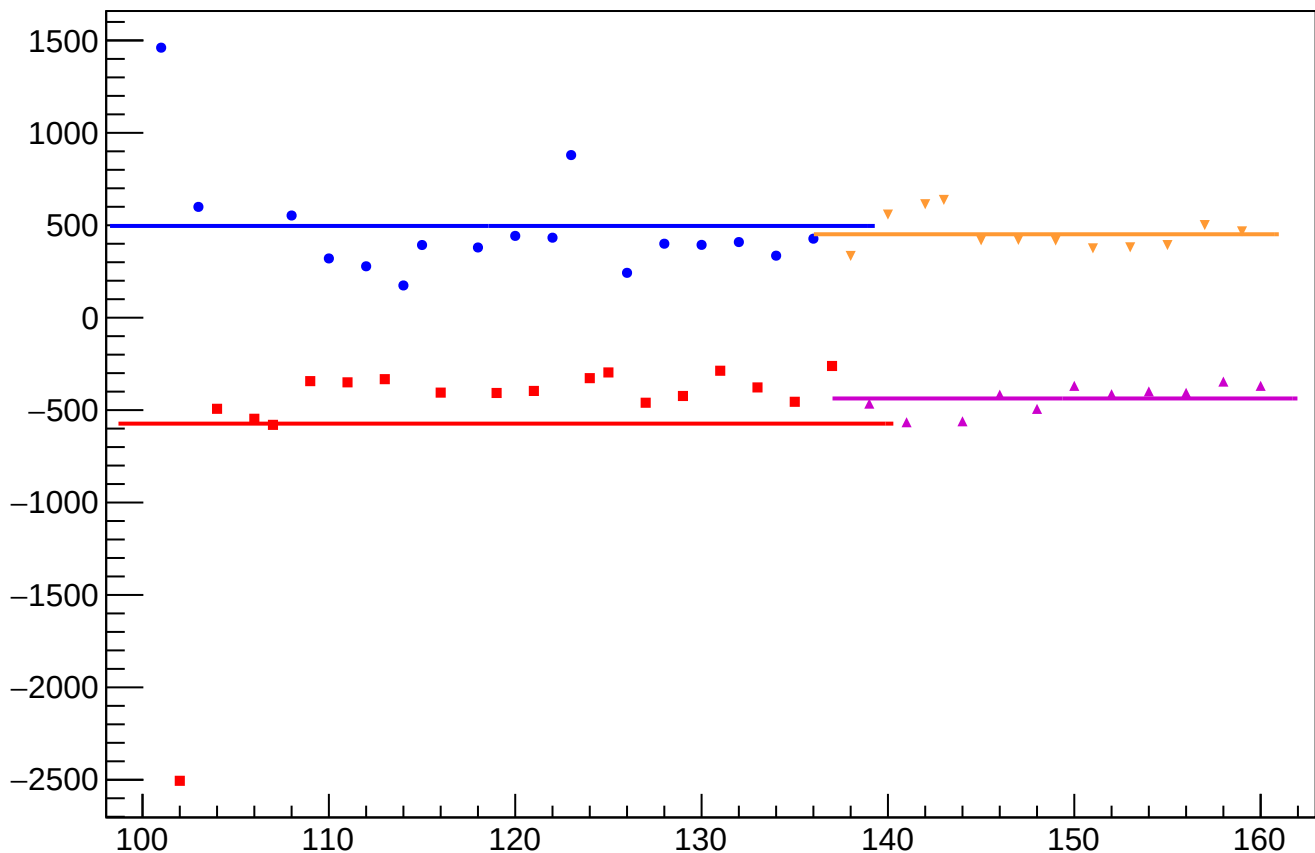
$\chi^2/\text{NDF}$ : 11193438968454164485978999260490441424896.0/17

Left In: 1427.044+/-0.000

$\chi^2/\text{NDF}$ : 751413830478220555131206140402736300032.0/10

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: 1.375+/-0.000  $\chi^2/\text{NDF}$ : 375406986324333850

Right: -46.379+/-0.000  $\chi^2/\text{NDF}$ : 709896081786288

Left Out: 451.374+/-0.000

$\chi^2/\text{NDF}$ : 7134946740505986037701205636285464576.0/11

In: -38.904+/-0.000  $\chi^2/\text{NDF}$ : 41857552752893239

Right Out: -573.168+/-0.000

$\chi^2/\text{NDF}$ : 240073229917698868720276393416726675456.0/17

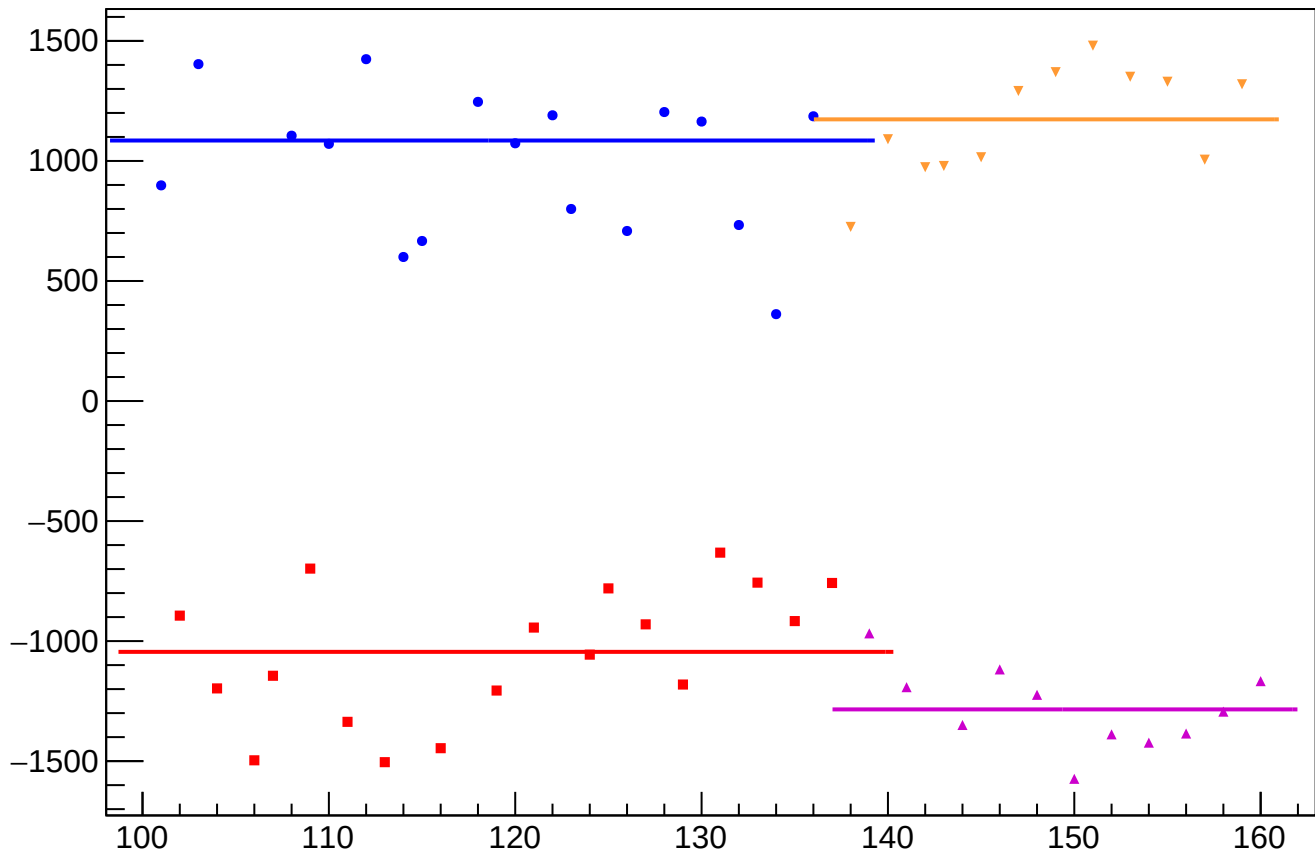
Out: 0.298+/-0.000  $\chi^2/\text{NDF}$ : 667299044312409985

Left In: -437.047+/-0.000

$\chi^2/\text{NDF}$ : 4864659833143539285467190686845501440.0/10

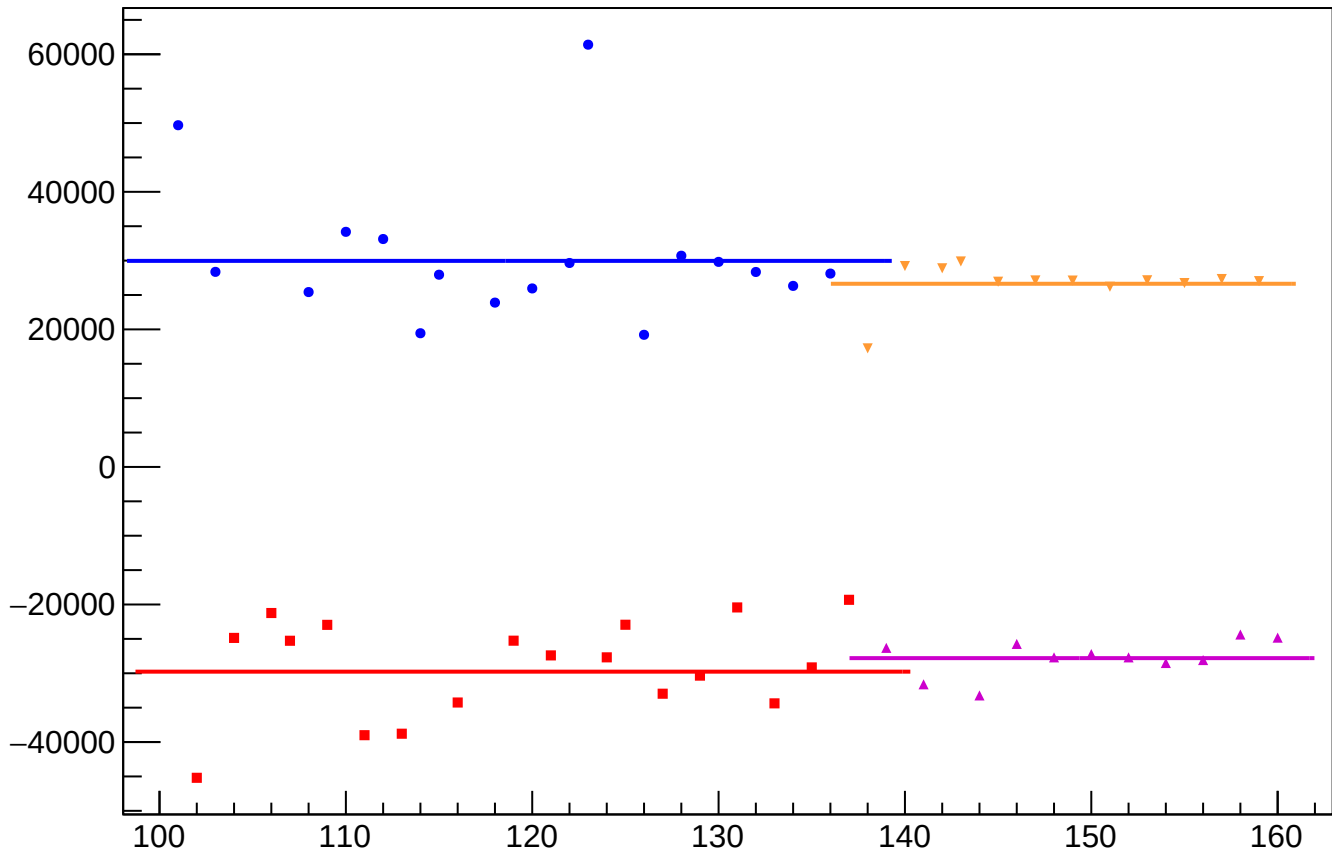
All: -19.321+/-0.000  $\chi^2/\text{NDF}$ : 108712362073

dit\_atr1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left 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\_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

Left: -937.440+/-0.000  $\chi^2/\text{NDF}$ : 137873253354379

Right: -346.916+/-0.000  $\chi^2/\text{NDF}$ : 13325830607857

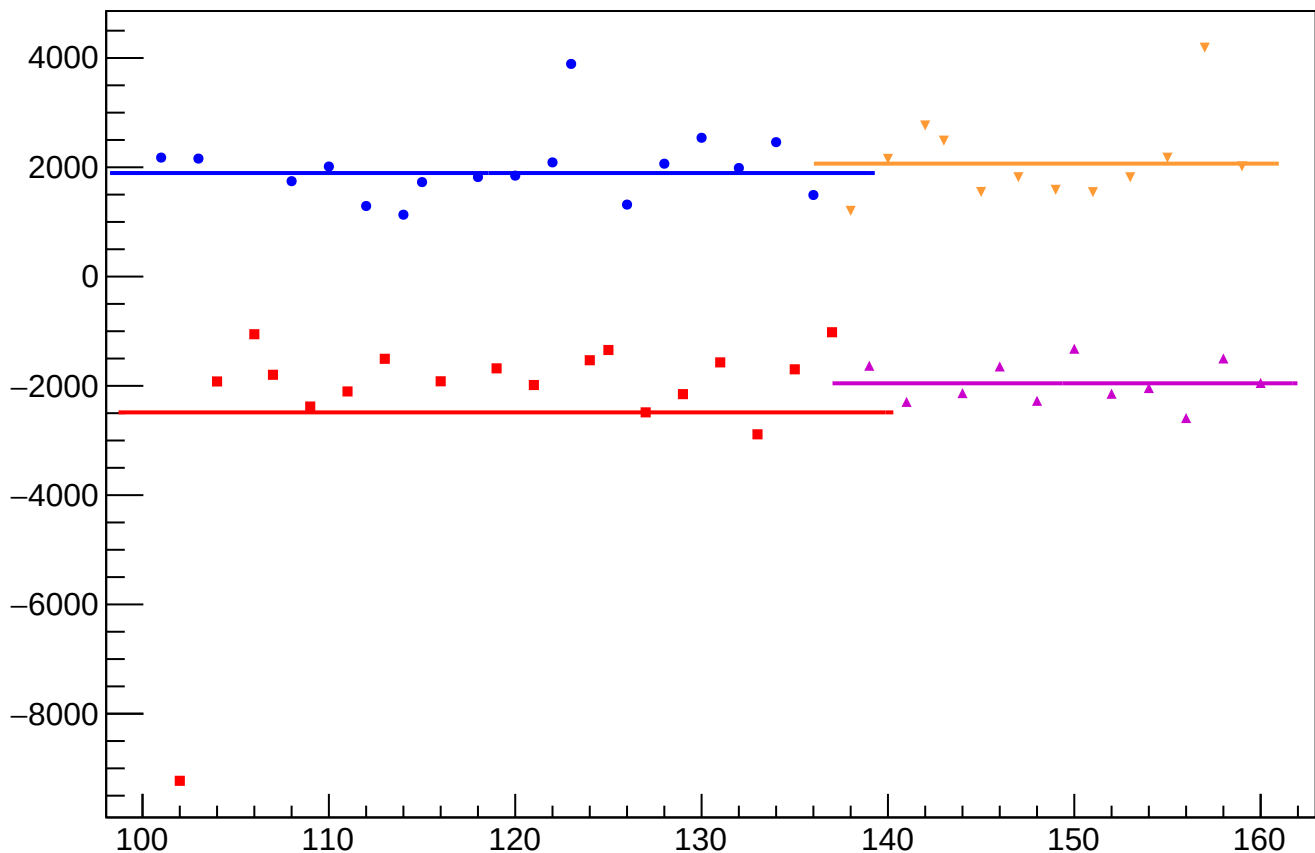
In: -3161.033+/-0.000  $\chi^2/\text{NDF}$ : 137209483612147

Out: 1802.606+/-0.000  $\chi^2/\text{NDF}$ : 131947487052940

All: -681.504+/-0.000  $\chi^2/\text{NDF}$ : 27115939878

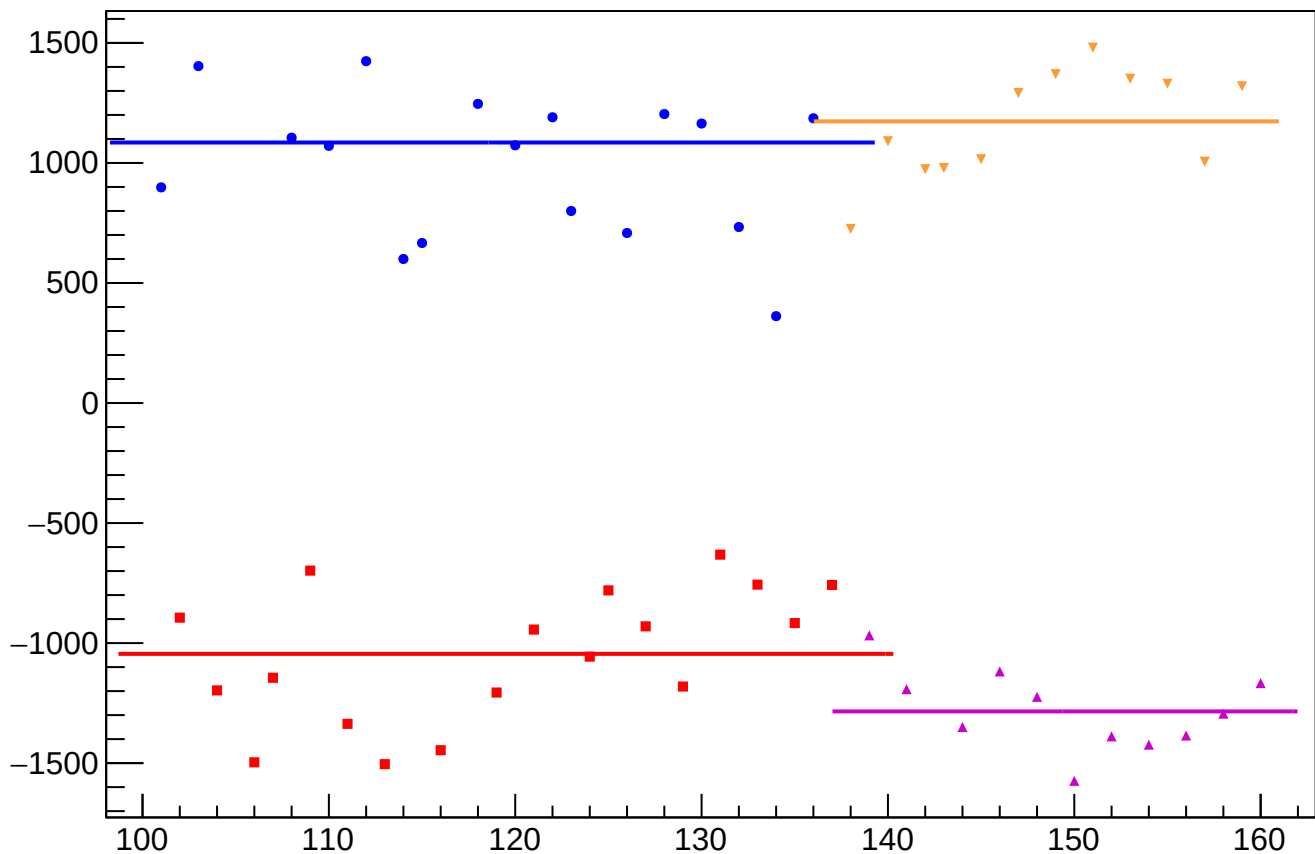


dit\_atr2\_coil4\_err\_mean vs Slug, Sign Corrected



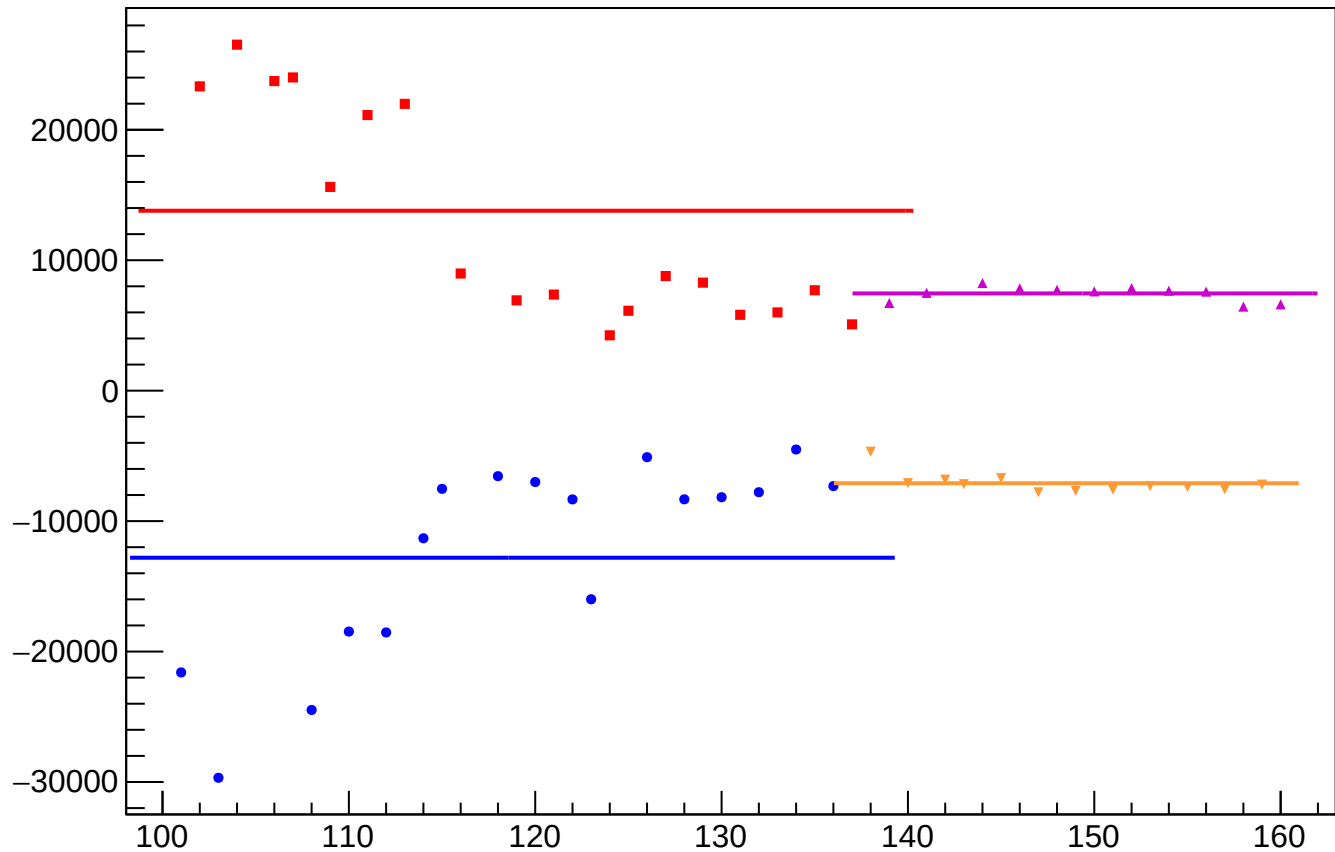
Right In: 1894.762+/-0.000  $\chi^2/\text{NDF}$ : 112136505207273757562412234872415322112.0/16  
 Left Out: 2067.096+/-0.000  $\chi^2/\text{NDF}$ : 498951714500530031712915611537190682624.0/11  
 Right Out: -2485.438+/-0.000  $\chi^2/\text{NDF}$ : 3007798896738182941908815432963258843136.0/17  
 Left In: -1953.340+/-0.000  $\chi^2/\text{NDF}$ : 126893636747608035073836069635988914176.0/10  
 All: -124.761+/-0.000  $\chi^2/\text{NDF}$ : 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 Out: -7096.329+/-0.000

$\chi^2/\text{NDF}$ : 584722053171334285321257985594368196608.0/11

Right Out: 13794.471+/-0.000

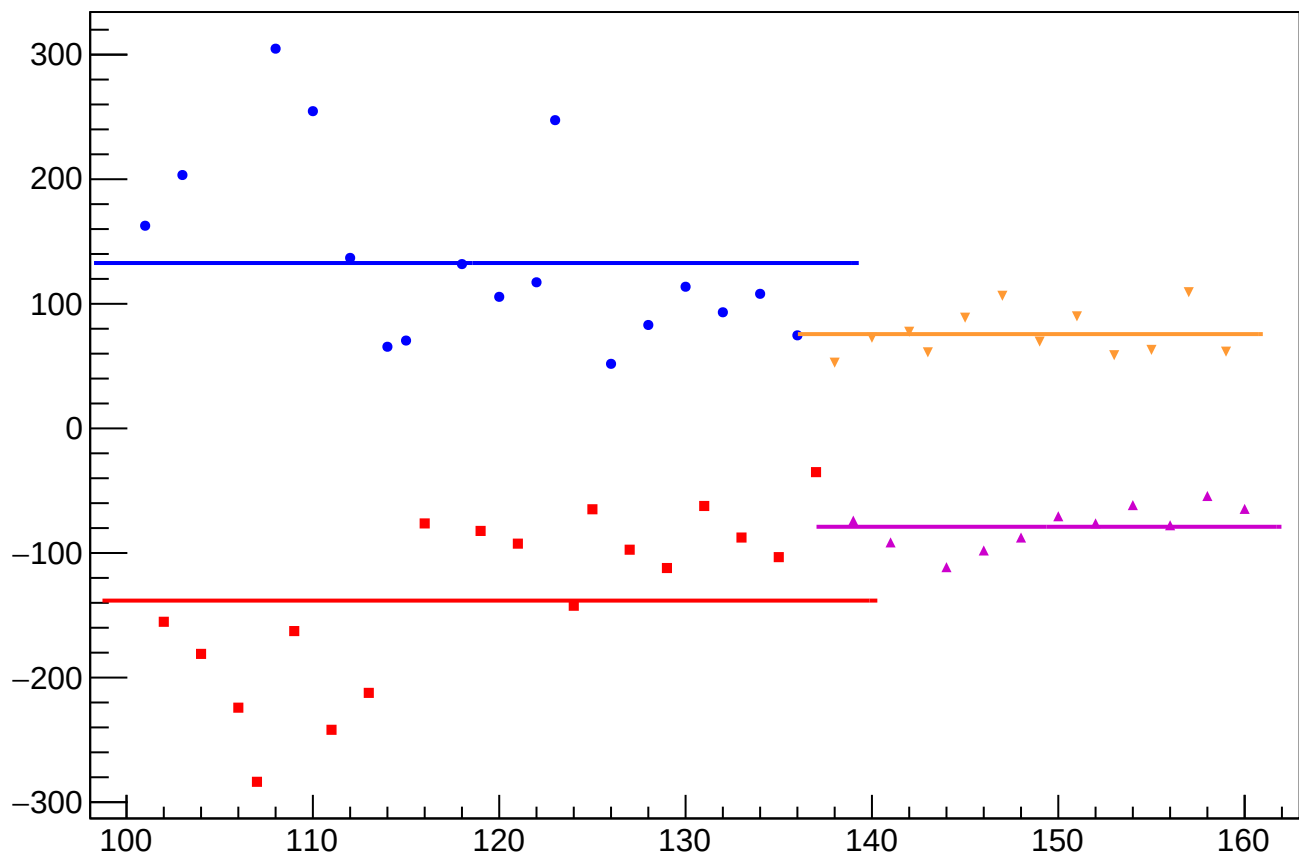
$\chi^2/\text{NDF}$ : 44540762371856662603320518030739625738240.0/17

Left In: 7453.581+/-0.000

$\chi^2/\text{NDF}$ : 281861545149716894658296806870620307456.0/10

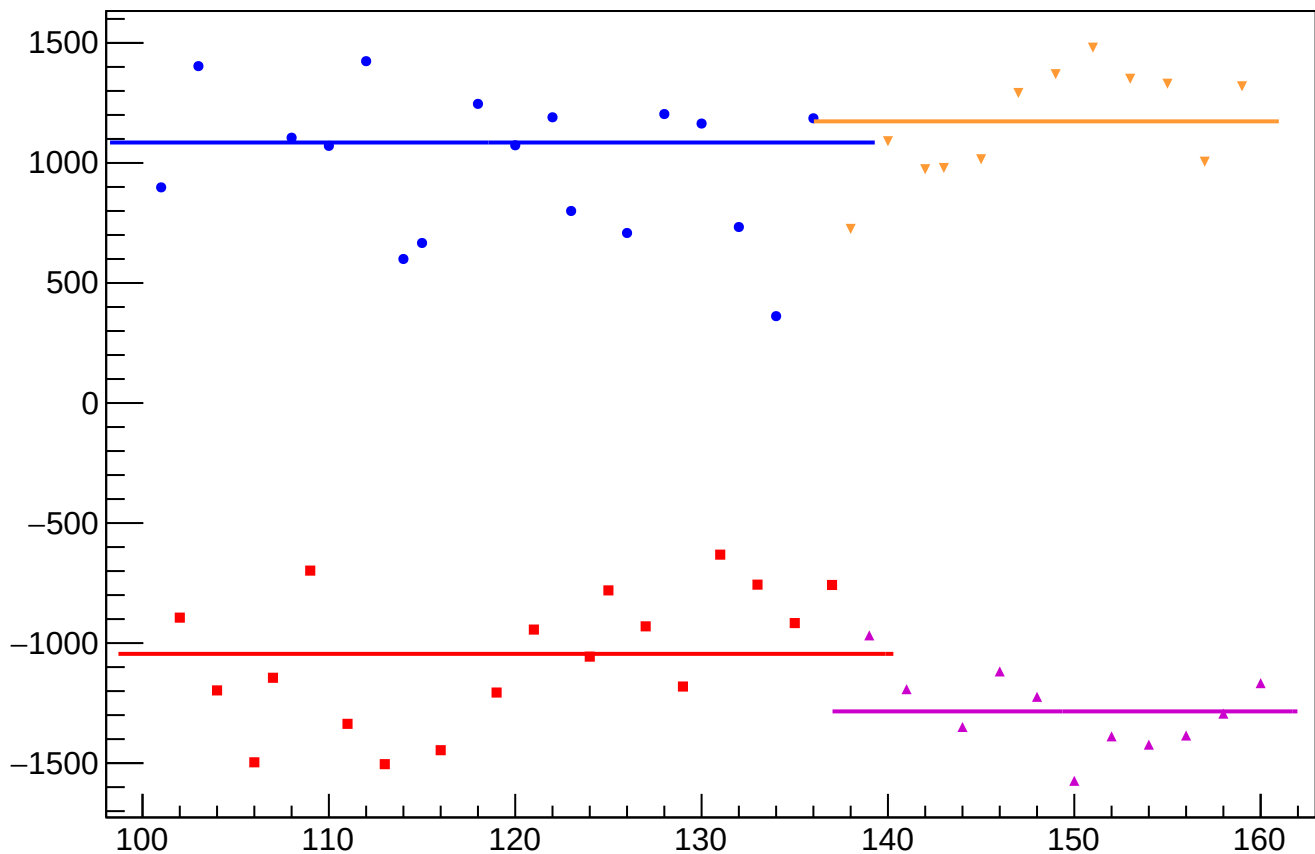
Left: 273.414+/-0.000  $\chi^2/\text{NDF}$ : 9833783800692671  
 Right: 691.705+/-0.000  $\chi^2/\text{NDF}$ : 337256561899080  
 In: -1188.840+/-0.000  $\chi^2/\text{NDF}$ : 207150417799296  
 Out: 2101.283+/-0.000  $\chi^2/\text{NDF}$ : 219785724716291  
 All: 454.703+/-0.000  $\chi^2/\text{NDF}$ : 435734081943

dit\_sam1\_coil4\_err\_mean vs Slug, Sign Corrected



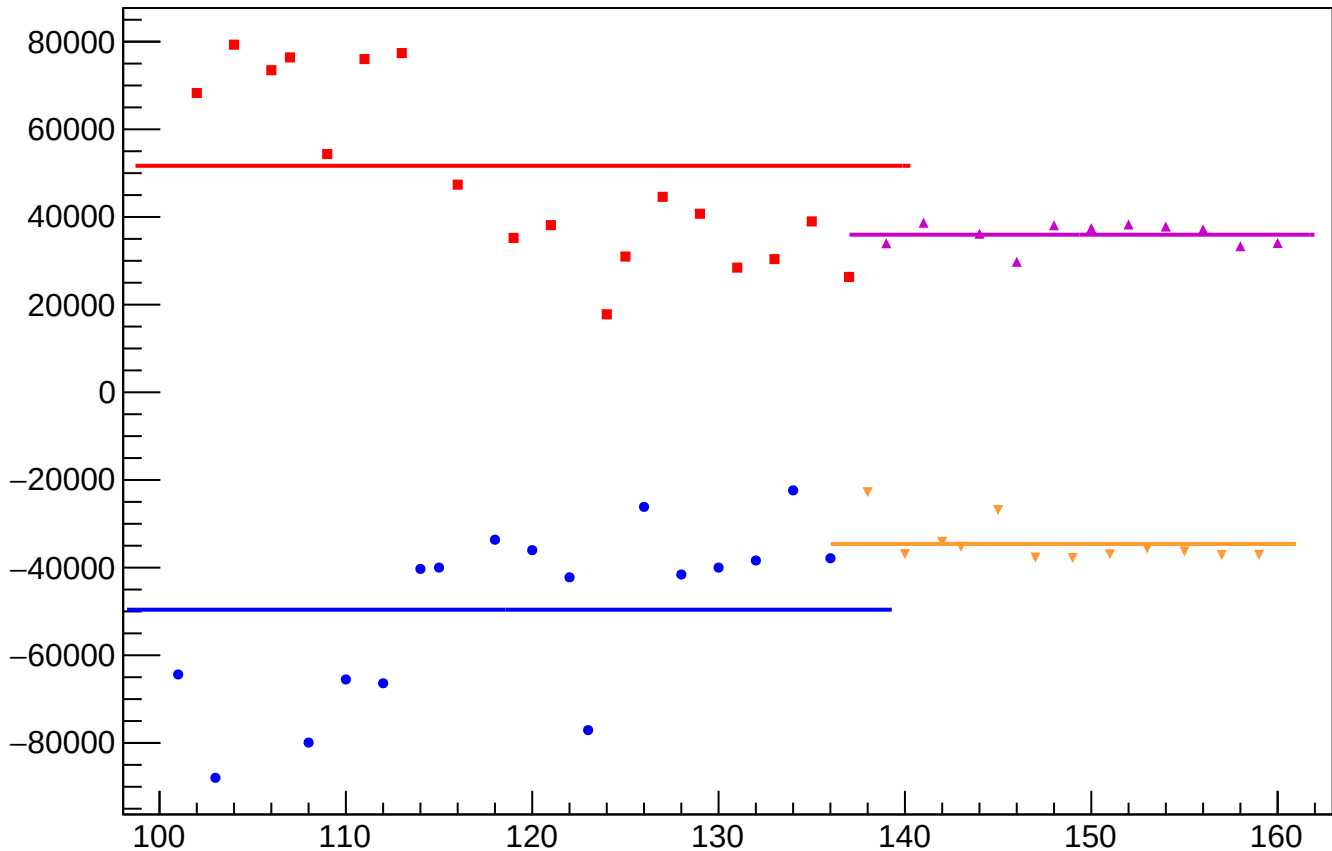
Left:  $-2.638 \pm 0.000$   $\chi^2/\text{NDF}: 11556362420616820$   
 Right In:  $132.743 \pm 0.000$   $\chi^2/\text{NDF}: 2974792347641490027349453247875121152.0/16$   
 Right:  $-4.751 \pm 0.000$   $\chi^2/\text{NDF}: 3190255786857063$   
 Left Out:  $75.694 \pm 0.000$   $\chi^2/\text{NDF}: 299041397812904543240527879931428864.0/11$   
 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

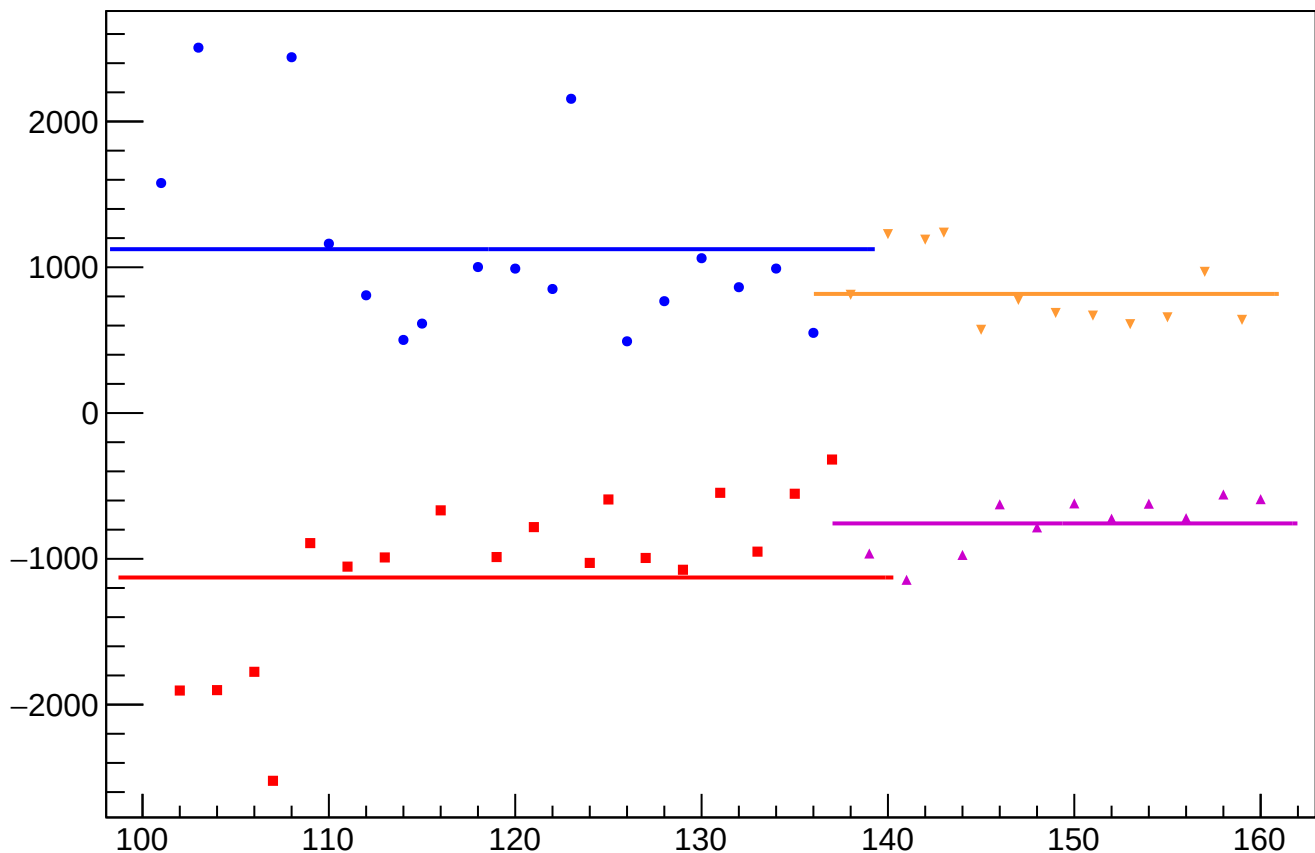
$\chi^2/\text{NDF}$ : 19332238764834112124747040225536159776768.0/11

$\chi^2/\text{NDF}$ : 268094403741805330481600683125097153691648.0/17

$\chi^2/\text{NDF}$ : 6460763561716039047552359643495482261504.0/10

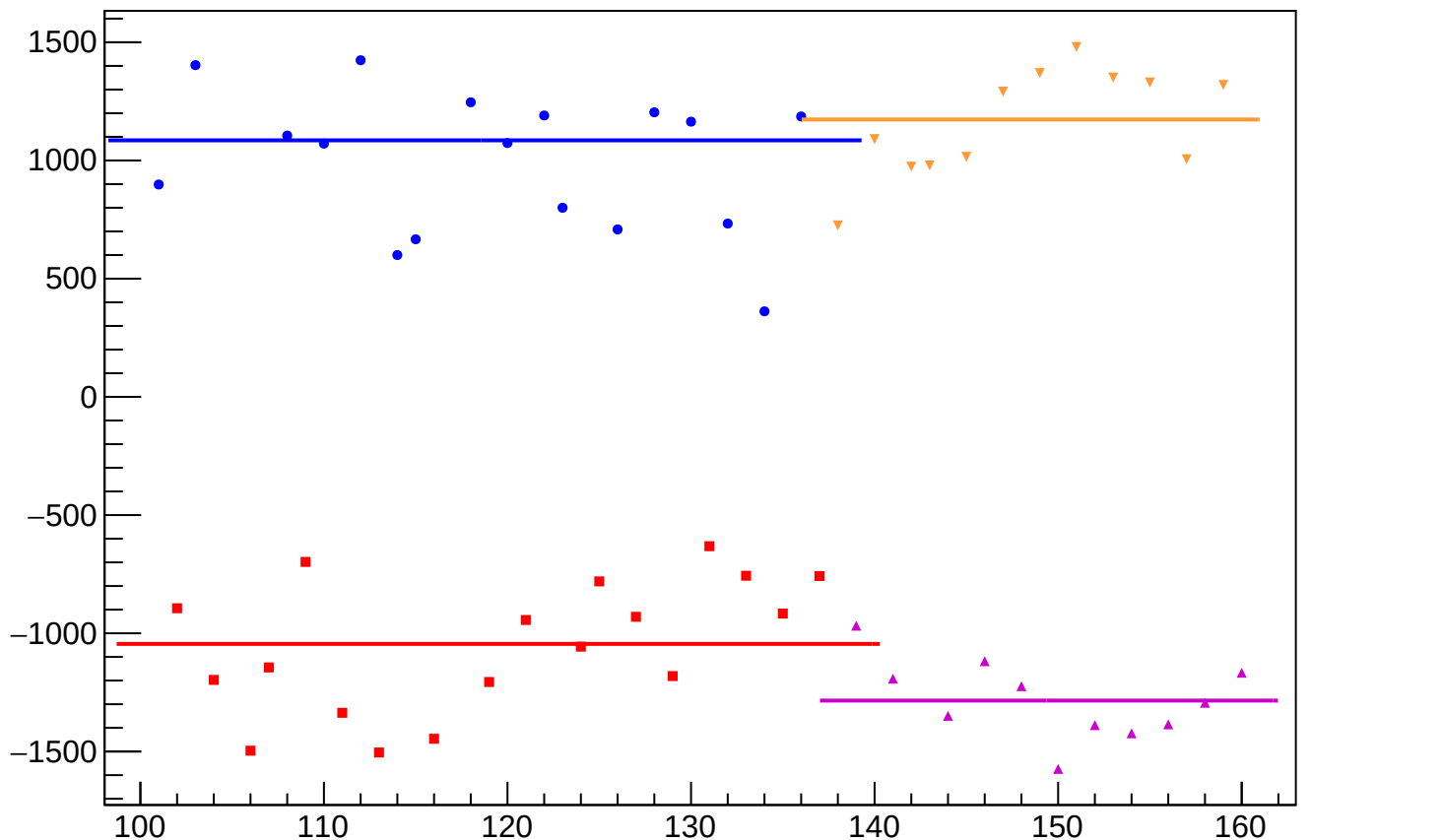
All: 1426.108+/-0.000  $\chi^2/\text{NDF}$ : 64466810883

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

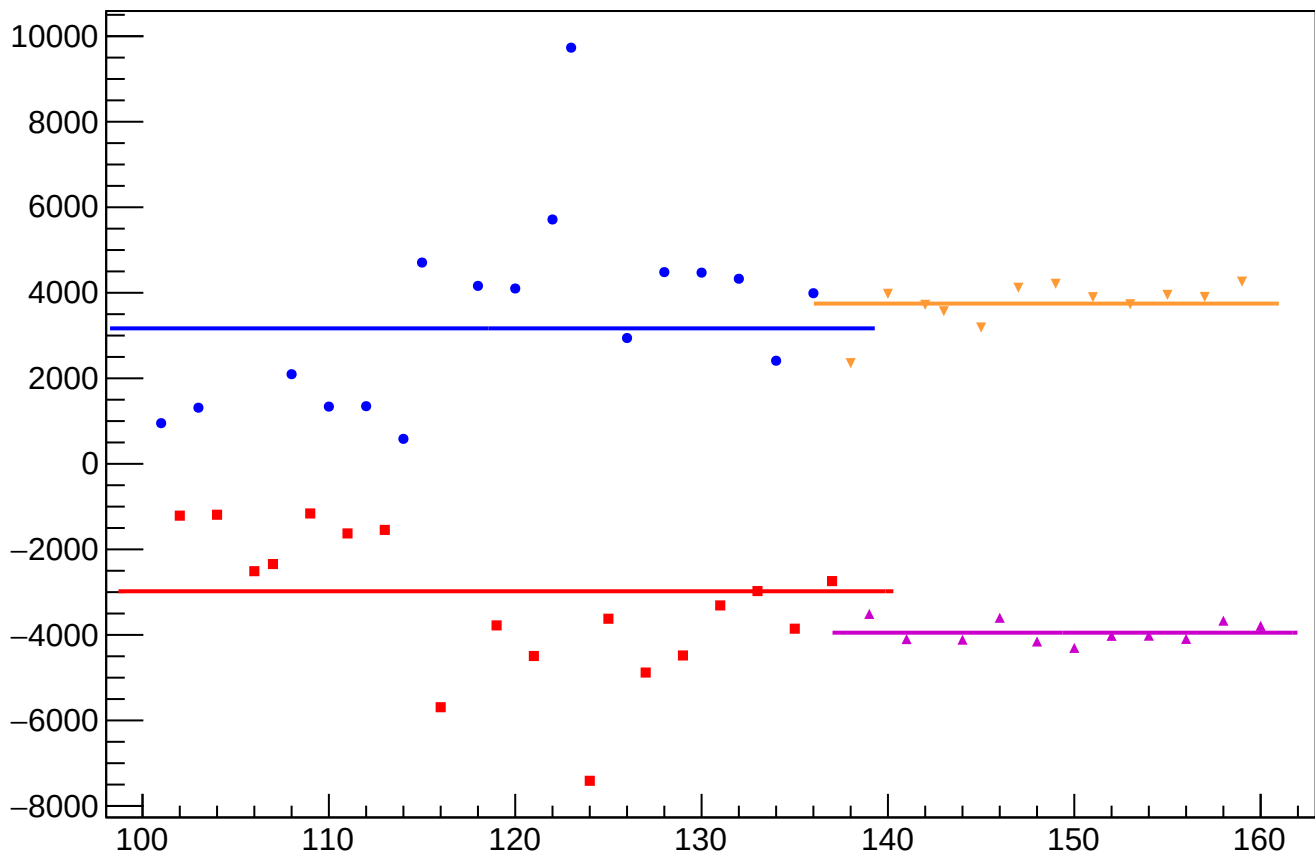
dit\_sam2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

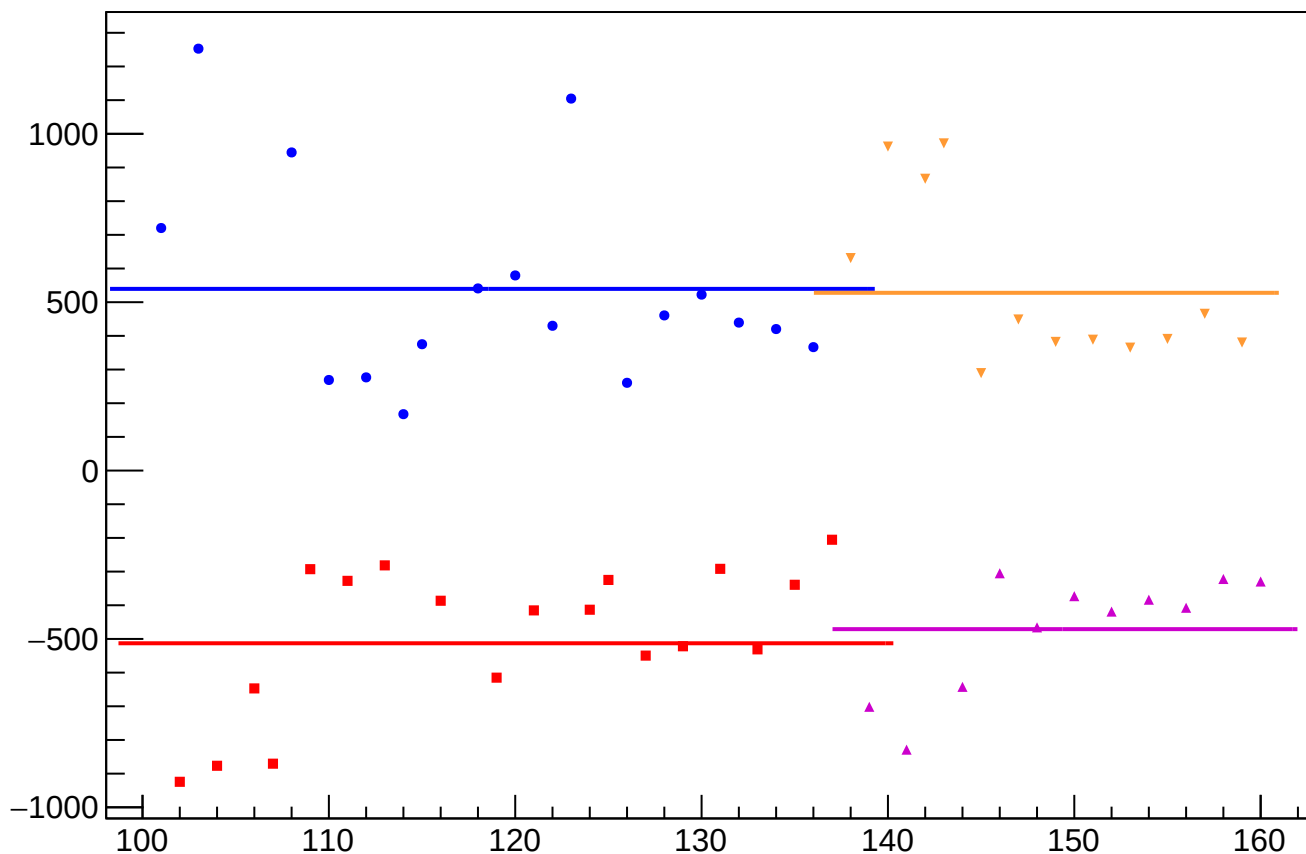


# dit\_sam3\_coil4\_mean vs Slug, Sign Corrected



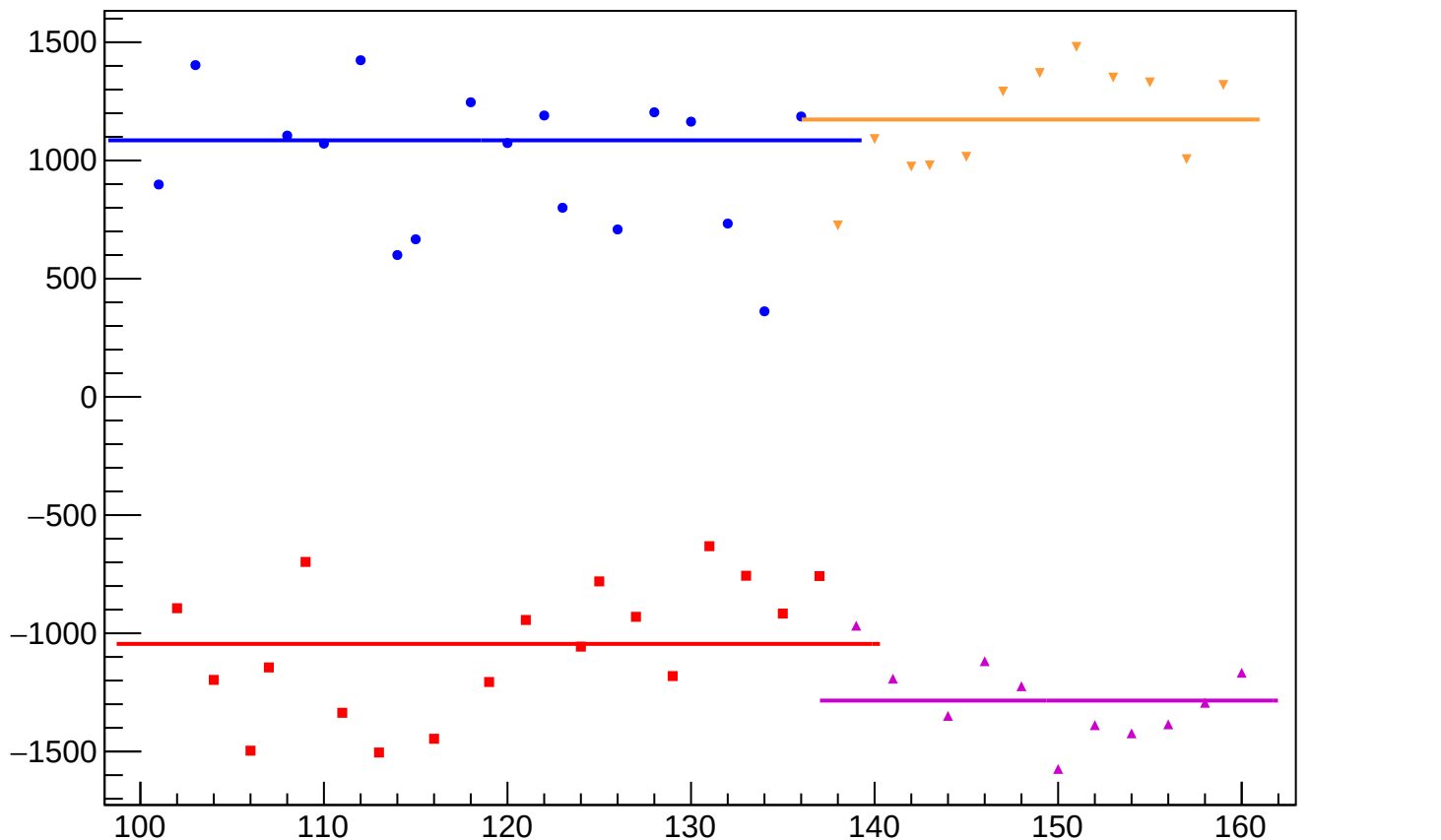
Right In: 3168.399+/-0.000  $\chi^2/\text{NDF}$ : 1758554525431486031573031760874625302528.0/16  
 Left Out: 3747.596+/-0.000  $\chi^2/\text{NDF}$ : 238995509272824091169755194048479494144.0/11  
 Right Out: -2979.505+/-0.000  $\chi^2/\text{NDF}$ : 1604891244832822830292138533265256480768.0/17  
 Left In: -3948.419+/-0.000  $\chi^2/\text{NDF}$ : 56222692399509421042001989393274896384.0/10  
 All: -64.222+/-0.000  $\chi^2/\text{NDF}$ : 442714340176

dit\_sam3\_coil4\_err\_mean vs Slug, Sign Corrected



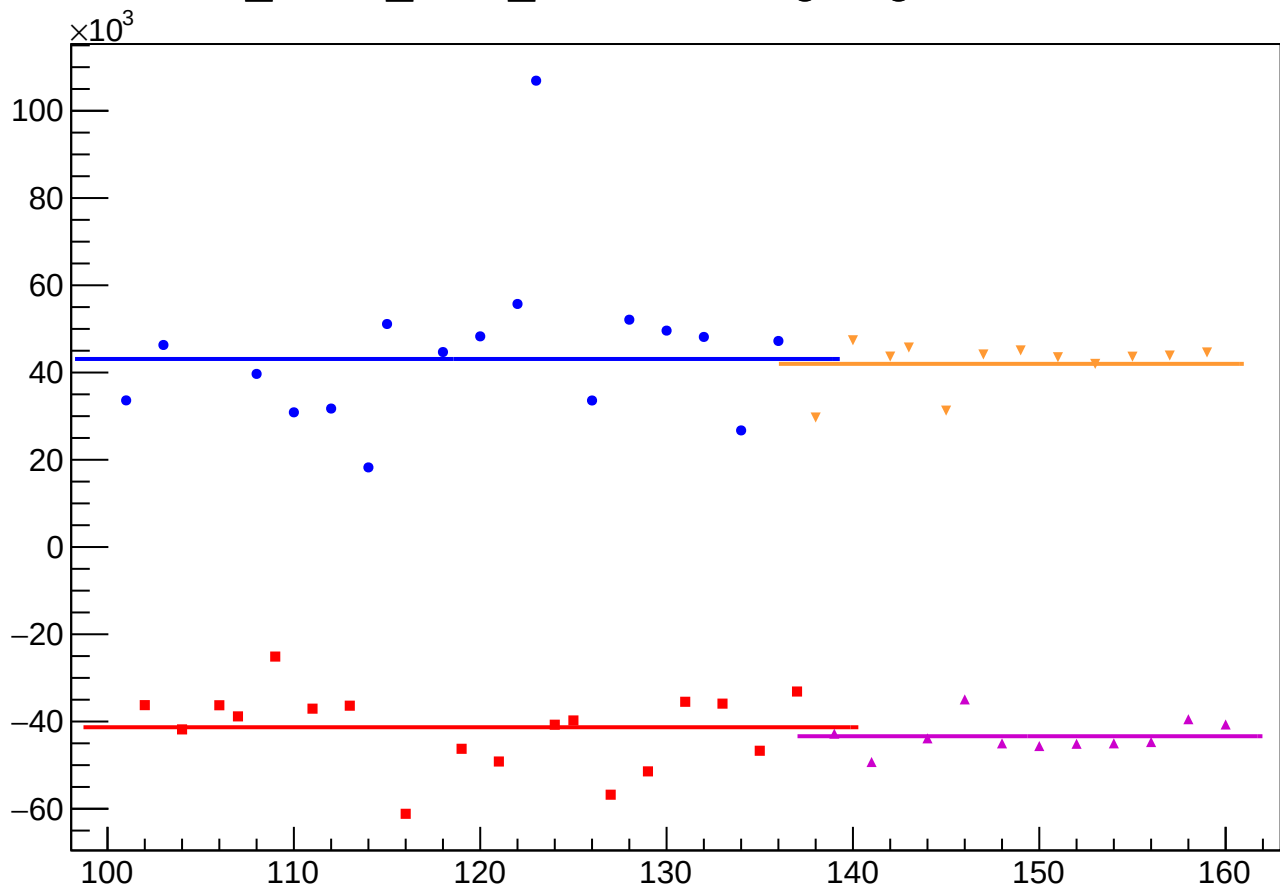
Left: 21.975 +/- 0.000  $\chi^2/\text{NDF}$ : 53370979876518743  
 Right: 5.500 +/- 0.000  $\chi^2/\text{NDF}$ : 48096110530152211  
 In: -39.894 +/- 0.000  $\chi^2/\text{NDF}$ : 48688876862229481  
 Out: 69.664 +/- 0.000  $\chi^2/\text{NDF}$ : 51824329036978360  
 All: 14.834 +/- 0.000  $\chi^2/\text{NDF}$ : 1014887597497

dit\_sam3\_coil4\_Ndata\_mean vs Slug, Sign Corrected



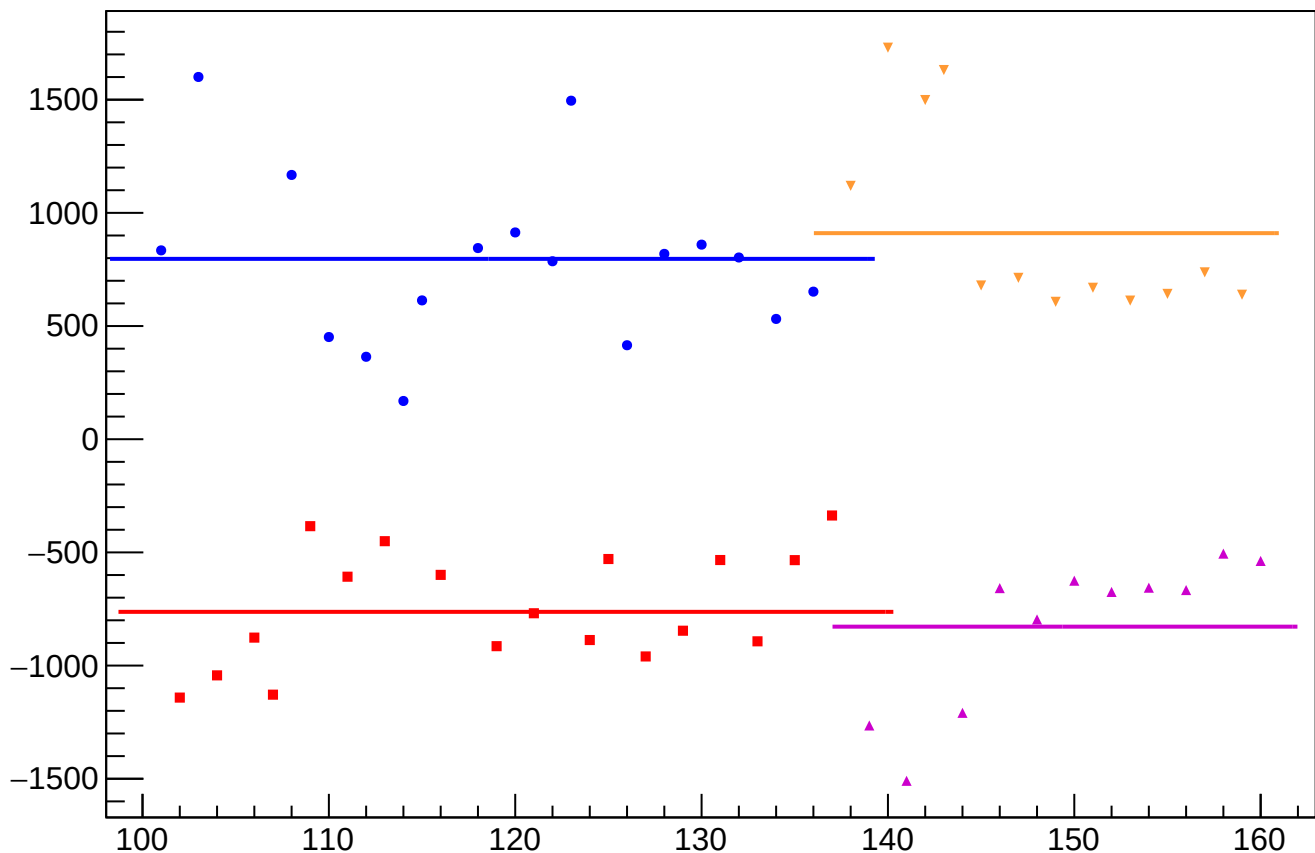
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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 $\pm$ 0.000

$\chi^2$ /NDF: 74155375401966789010322999397605965824.0/16

Left Out: 910.363 $\pm$ 0.000

$\chi^2$ /NDF: 150023970715127091011215524166165856256.0/11

Right Out: -762.642 $\pm$ 0.000

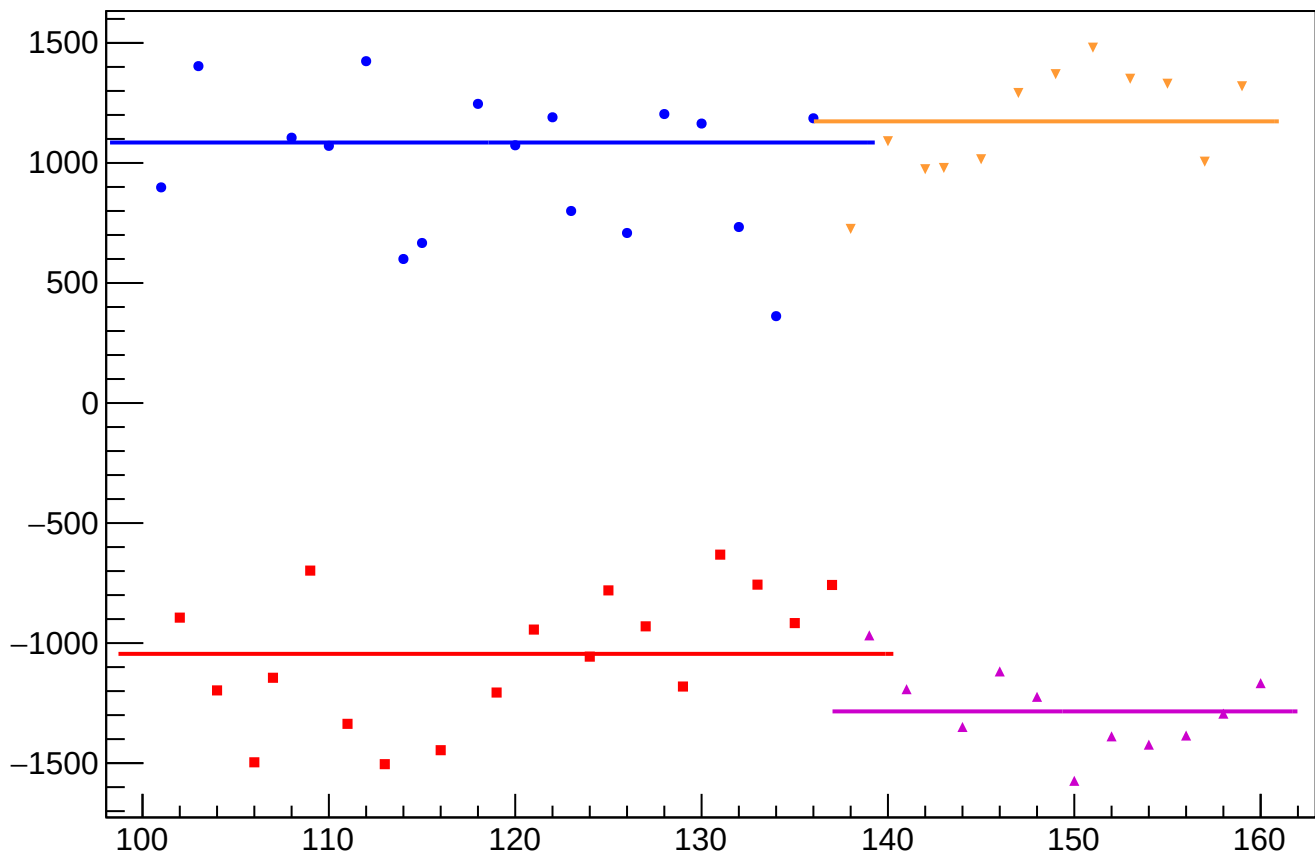
$\chi^2$ /NDF: 44999366783777016136570300173215858688.0/17

Left In: -828.047 $\pm$ 0.000

$\chi^2$ /NDF: 96201297506087070099989263222619242496.0/10

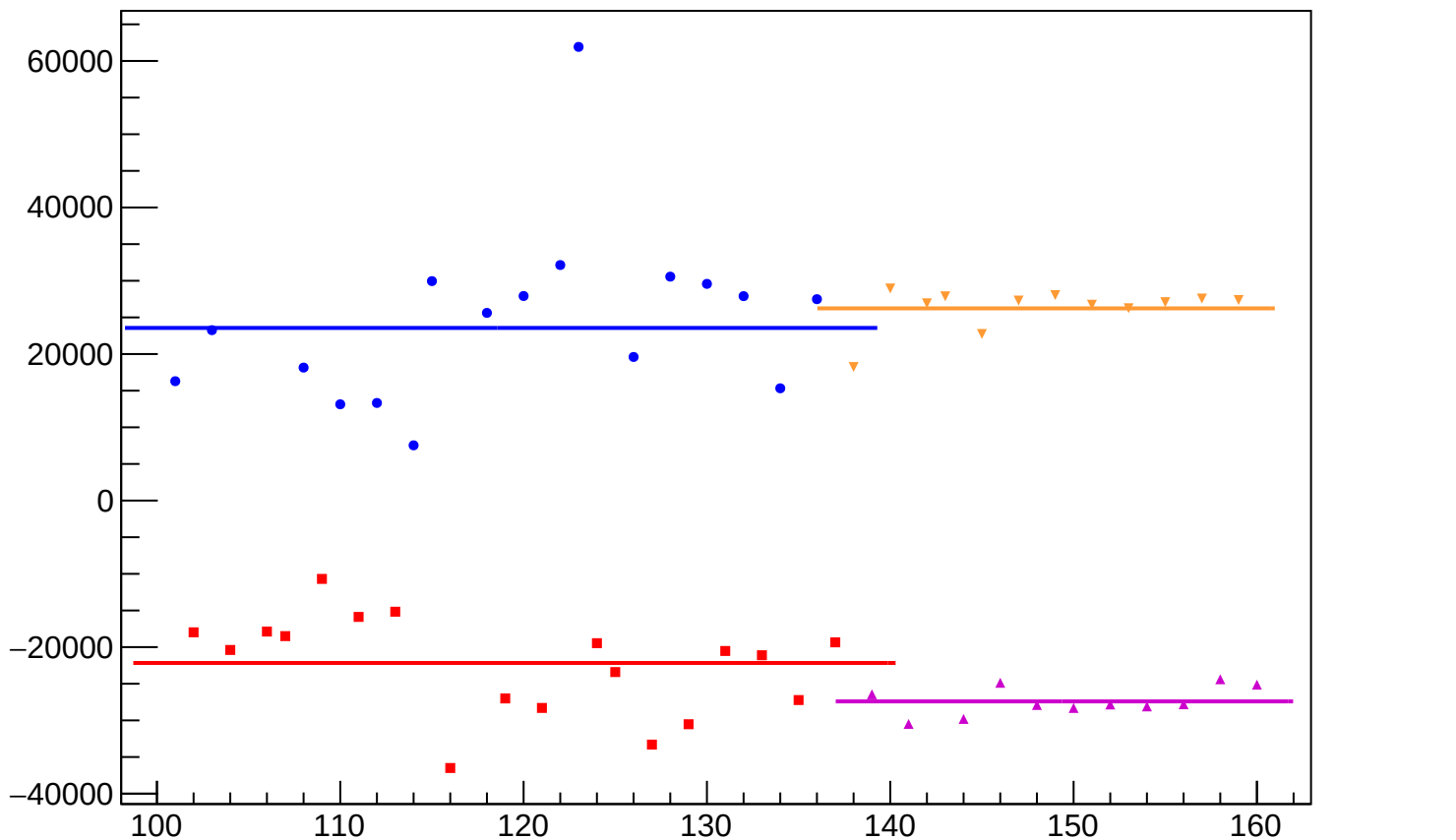
All: 19.266 $\pm$ 0.000  $\chi^2$ /NDF: 2613699813863

dit\_sam4\_coil4\_Ndata\_mean vs Slug, Sign Corrected



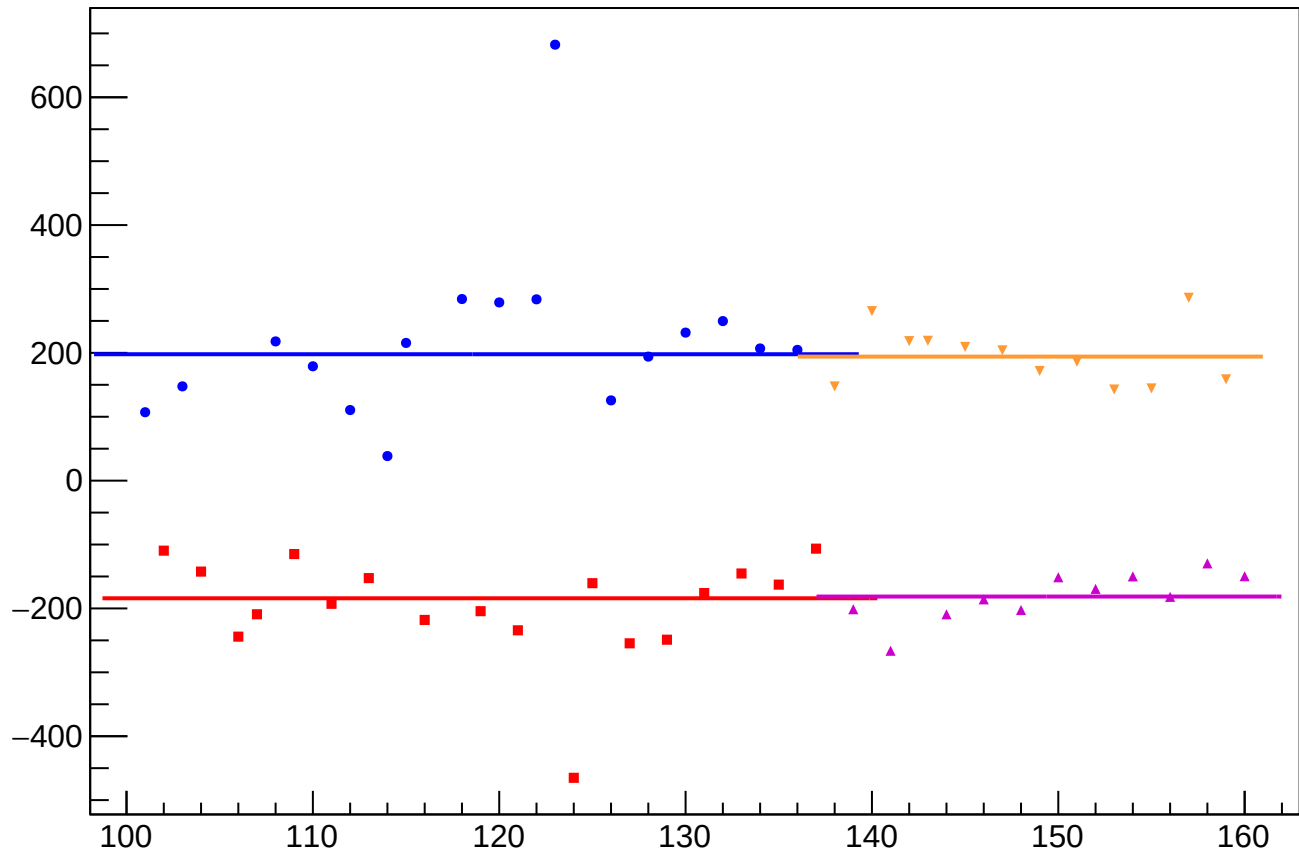
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 3601849103427594359827693165900464128.0/16

Left Out: 194.146 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 1879017279218446114091371157486829568.0/11

Right Out: -184.108 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 2706165724913072523706132651898306560.0/17

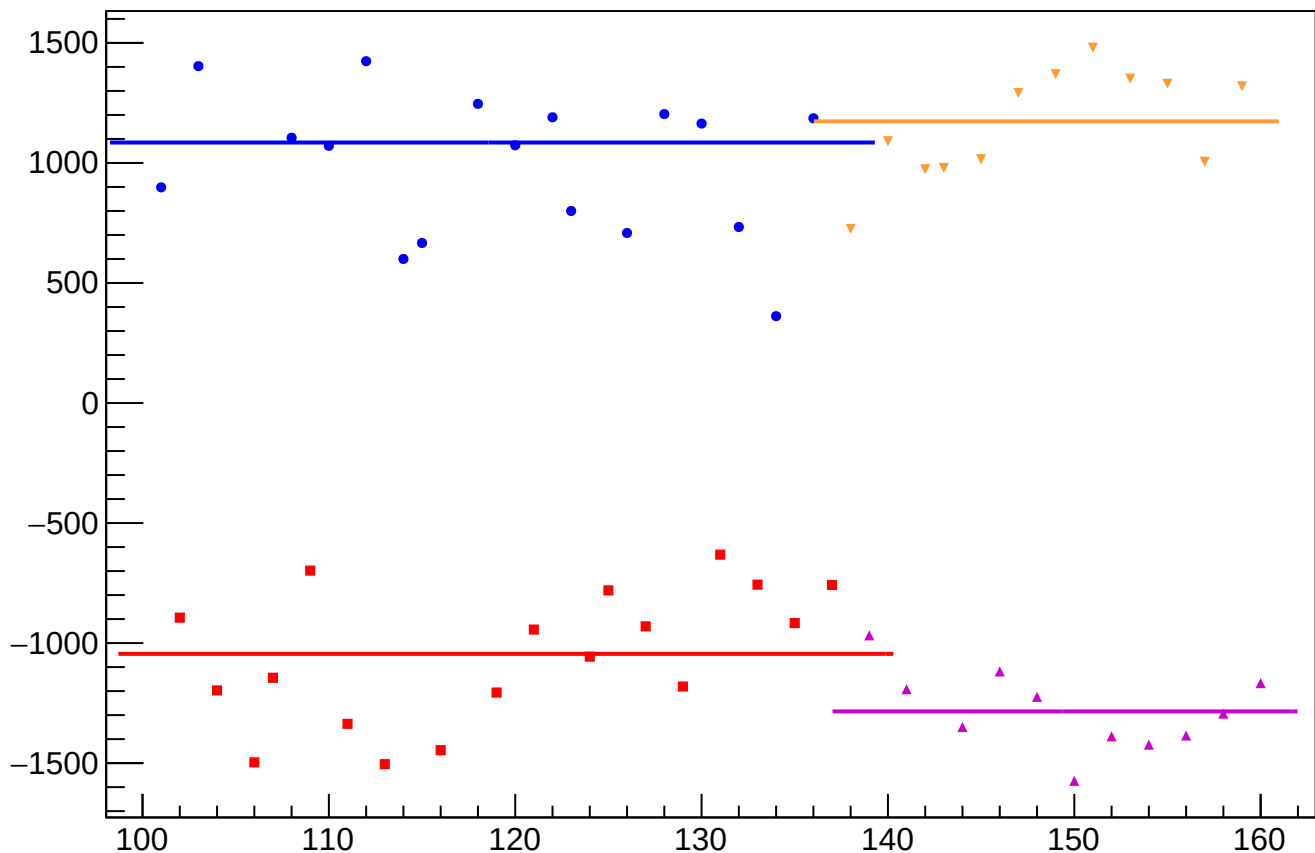
Left In: -181.409 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 1237326176797583481368716307739967488.0/10

Left: 3.922 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 680547634341242532  
 Right: 4.020 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 57684682342329380  
 In: -19.639 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 62079772857917457  
 Out: 27.612 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 61845128959738000  
 All: 3.965 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12573945346954

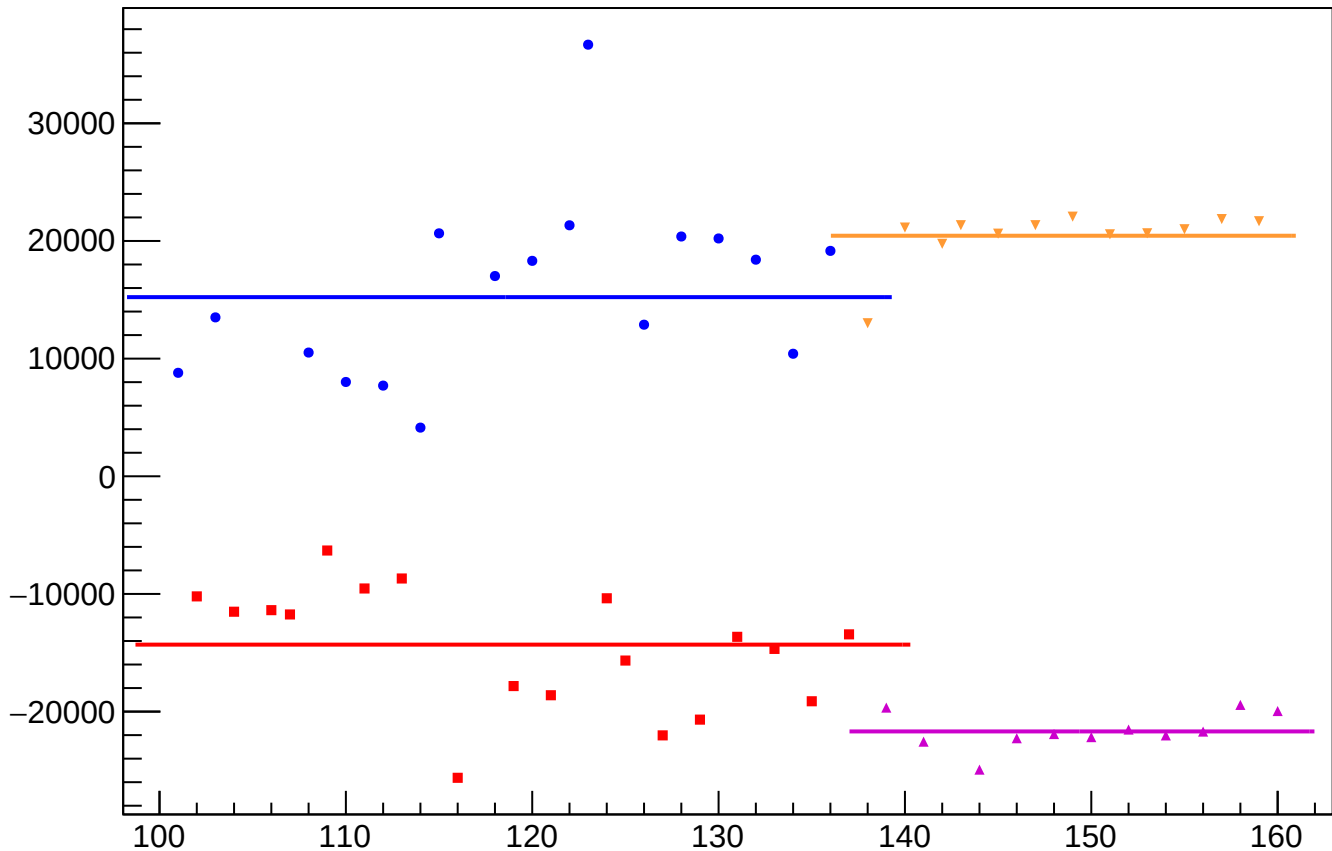


dit\_sam5\_coil4\_Ndata\_mean vs Slug, Sign Corrected



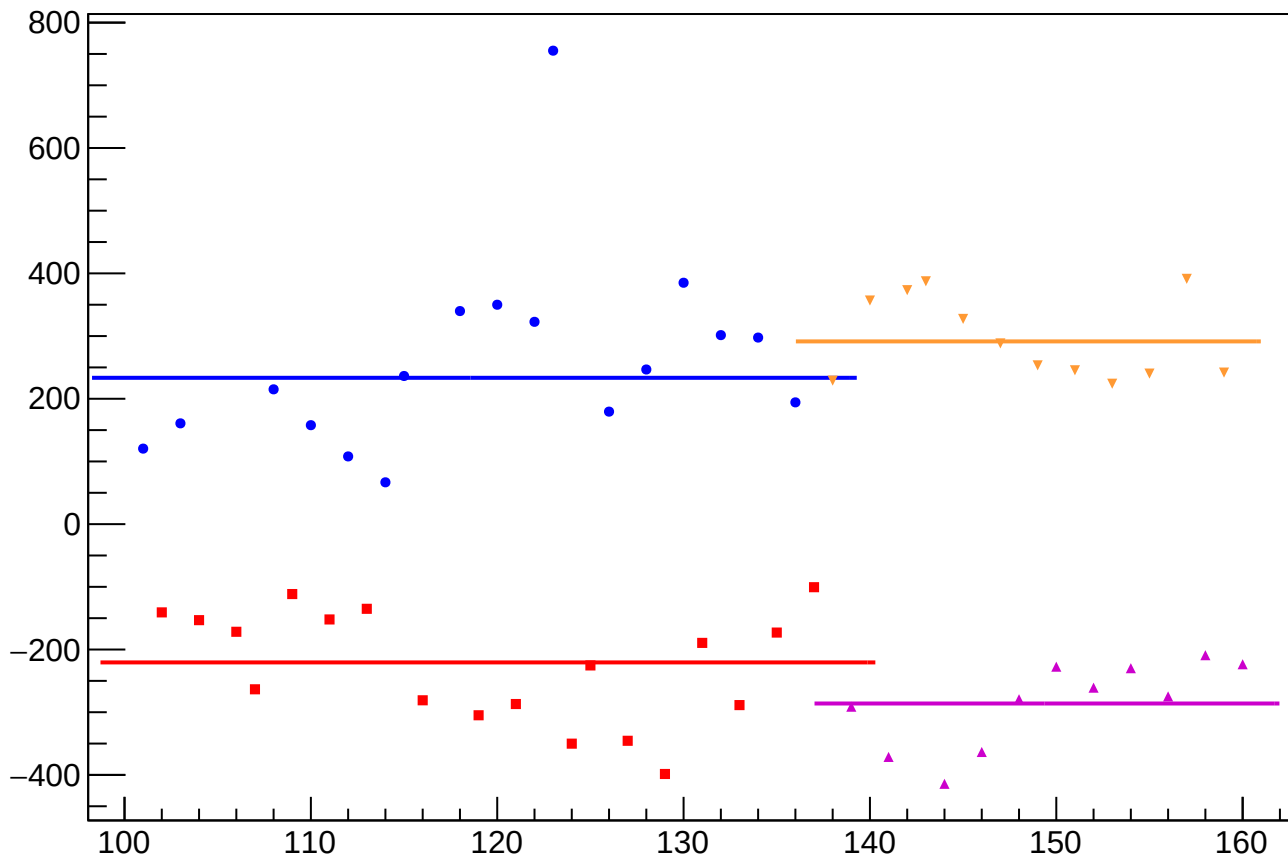
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287+/-0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -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



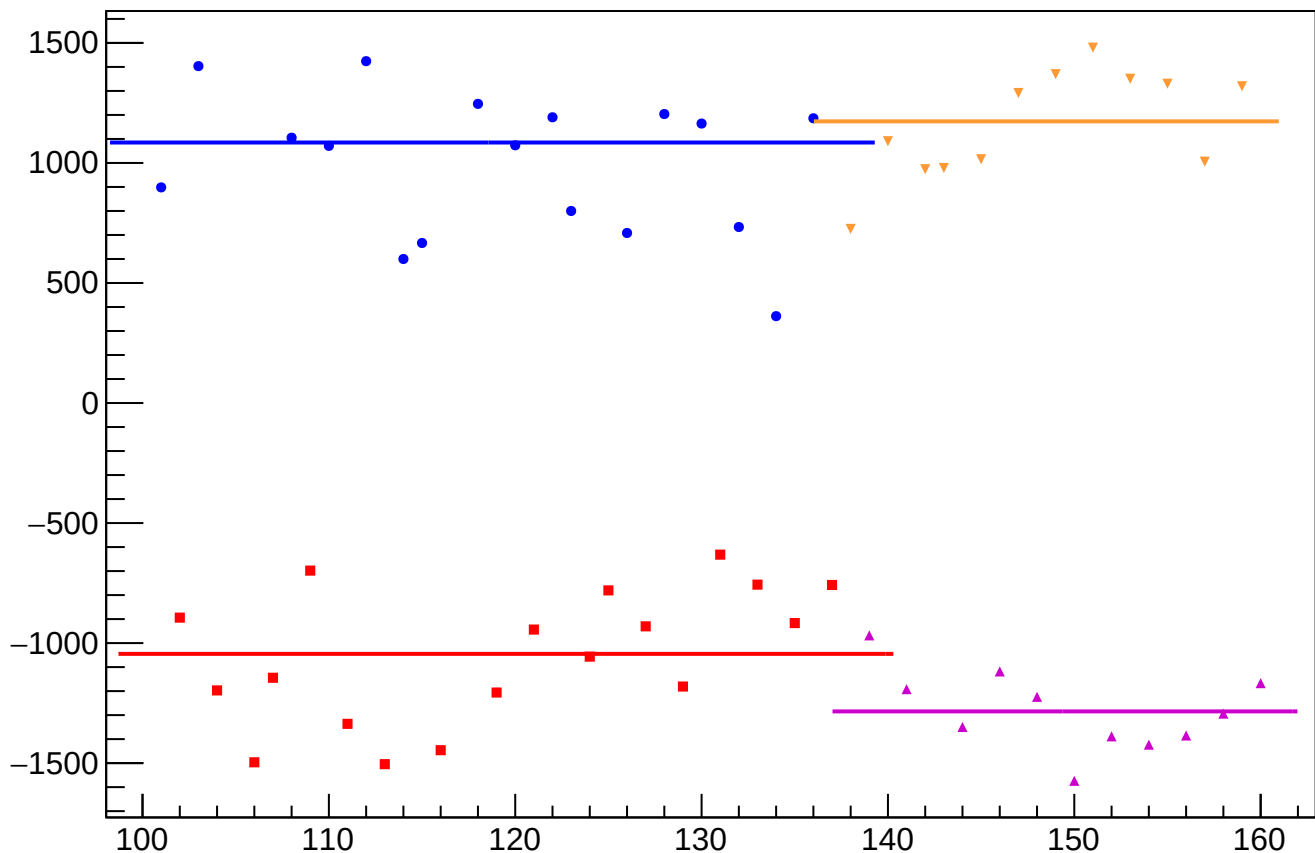
Right In: 15226.152+/-0.000  $\chi^2/\text{NDF}$ : 19033981883616318675707973818231845552128.0/16  
 Left Out: 20444.904+/-0.000  $\chi^2/\text{NDF}$ : 5015541788113107499549833018825777348608.0/11  
 Right Out: -14308.618+/-0.000  $\chi^2/\text{NDF}$ : 17986620092143727991108175714996656799744.0/17  
 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



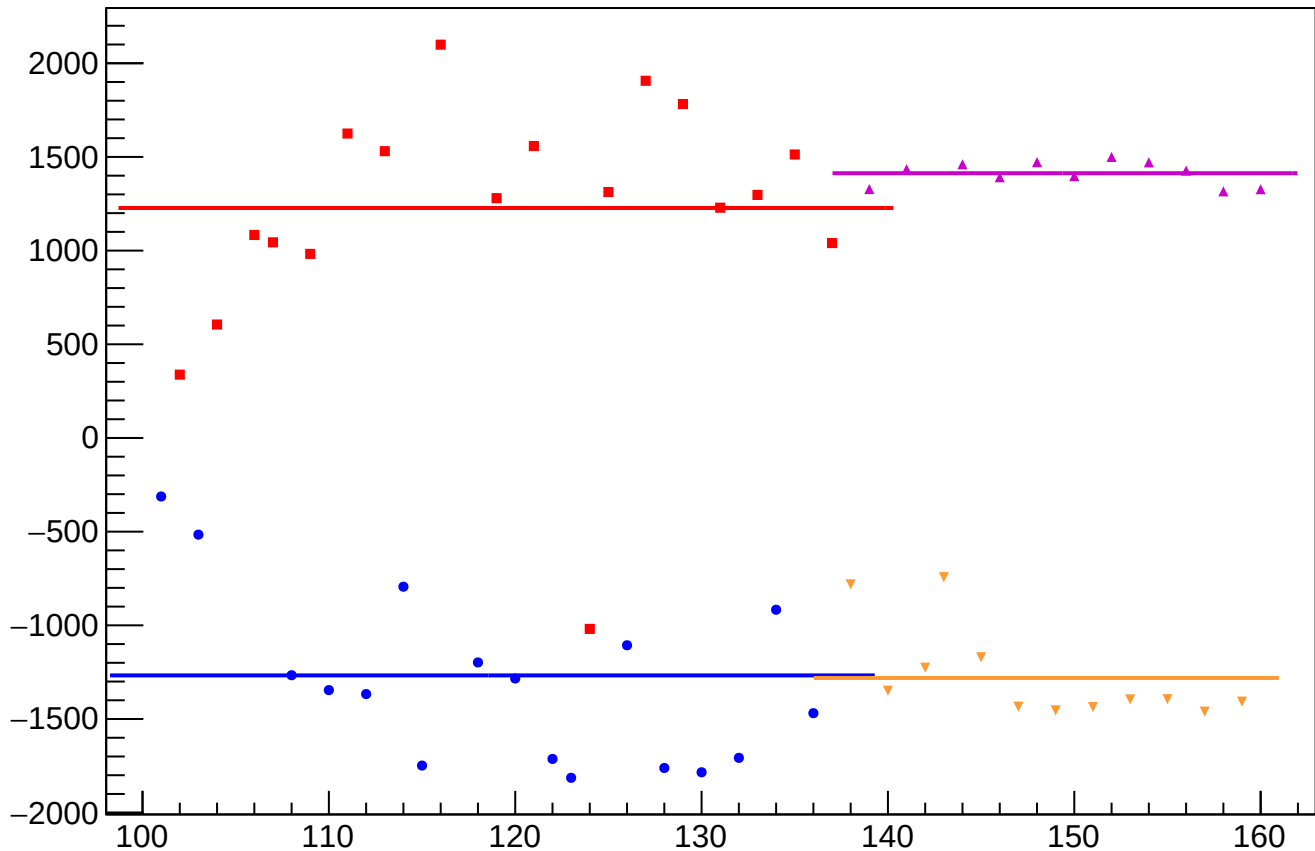
Right In: 233.427 $\pm$ 0.000  $\chi^2$ /NDF: 6632421375389201944932770217893822464.0/16  
 Left Out: 291.492 $\pm$ 0.000  $\chi^2$ /NDF: 3496936665449814929425245861490720768.0/11  
 Right Out: -220.559 $\pm$ 0.000  $\chi^2$ /NDF: 5383695019108554854360648047063465984.0/17  
 Left In: -286.089 $\pm$ 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 $\pm$ 0.000  $\chi^2$ /NDF: 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287 $\pm$ 0.000  $\chi^2$ /NDF: 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852 $\pm$ 0.000  $\chi^2$ /NDF: 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540 $\pm$ 0.000  $\chi^2$ /NDF: 24056417049221053484728394918859374592.0/10  
 All: -38.729 $\pm$ 0.000  $\chi^2$ /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

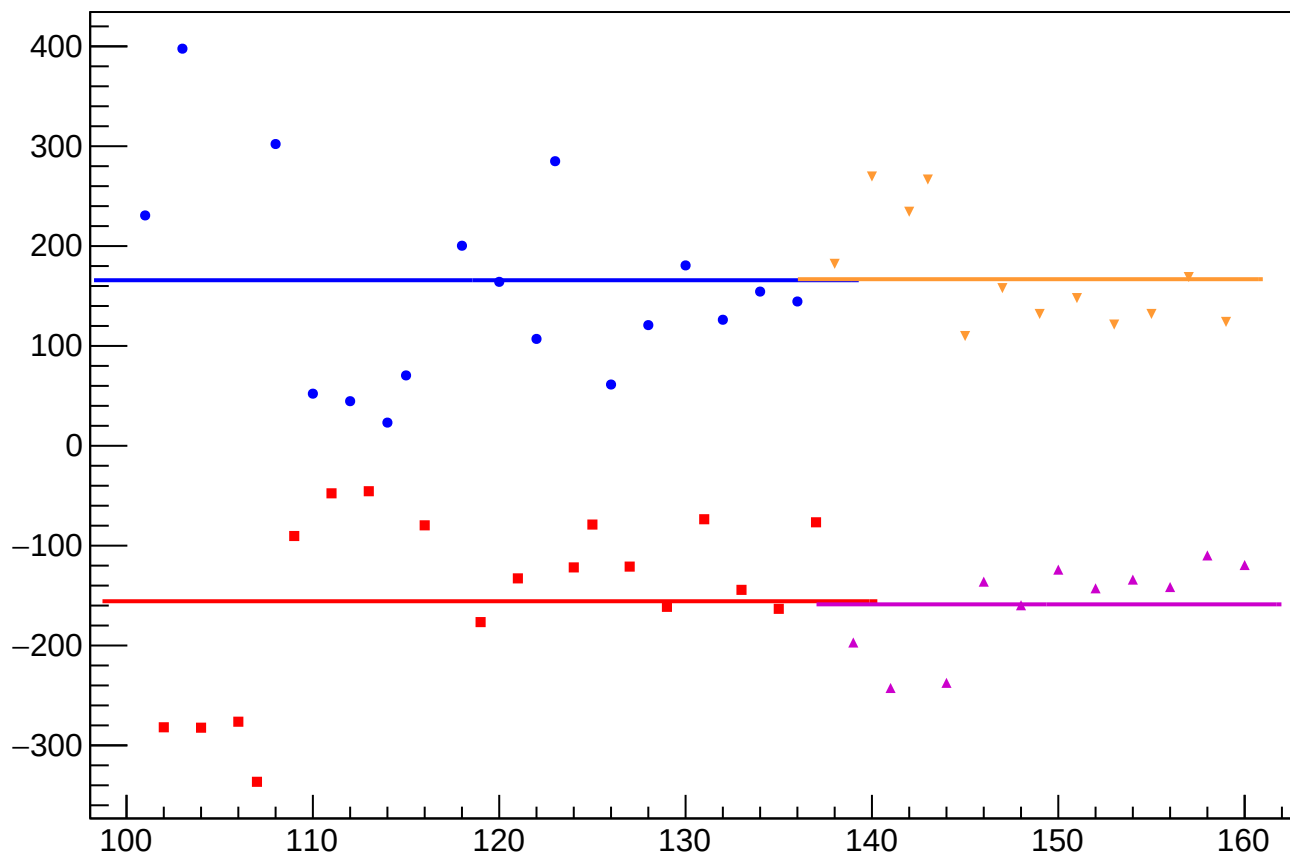
Right: -1.298+/-0.000  $\chi^2/\text{NDF}$ : 2551370593421750

In: 269.783+/-0.000  $\chi^2/\text{NDF}$ : 30078924023770430

Out: -176.539+/-0.000  $\chi^2/\text{NDF}$ : 278481258910852

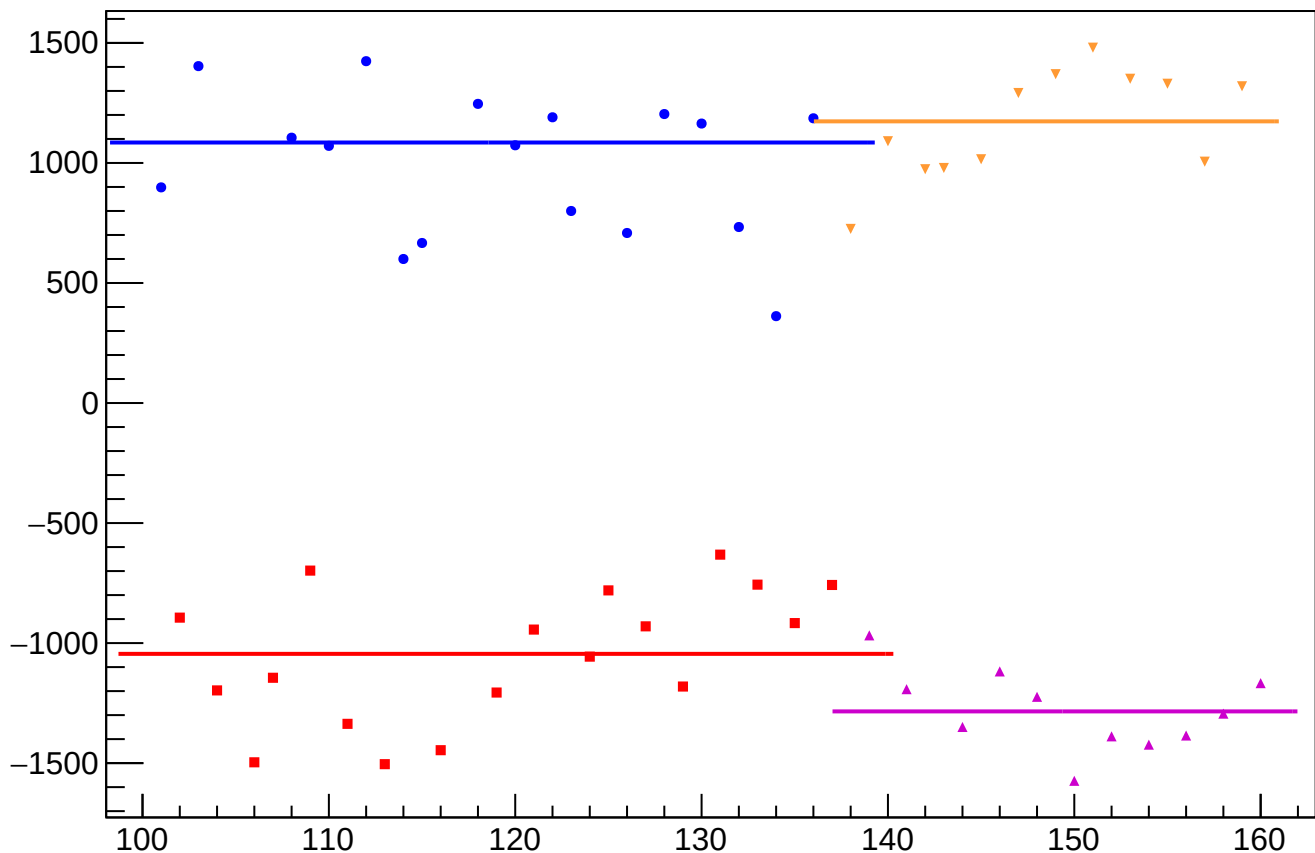
All: 46.827+/-0.000  $\chi^2/\text{NDF}$ : 5954607405275

# dit\_sam7\_coil4\_err\_mean vs Slug, Sign Corrected



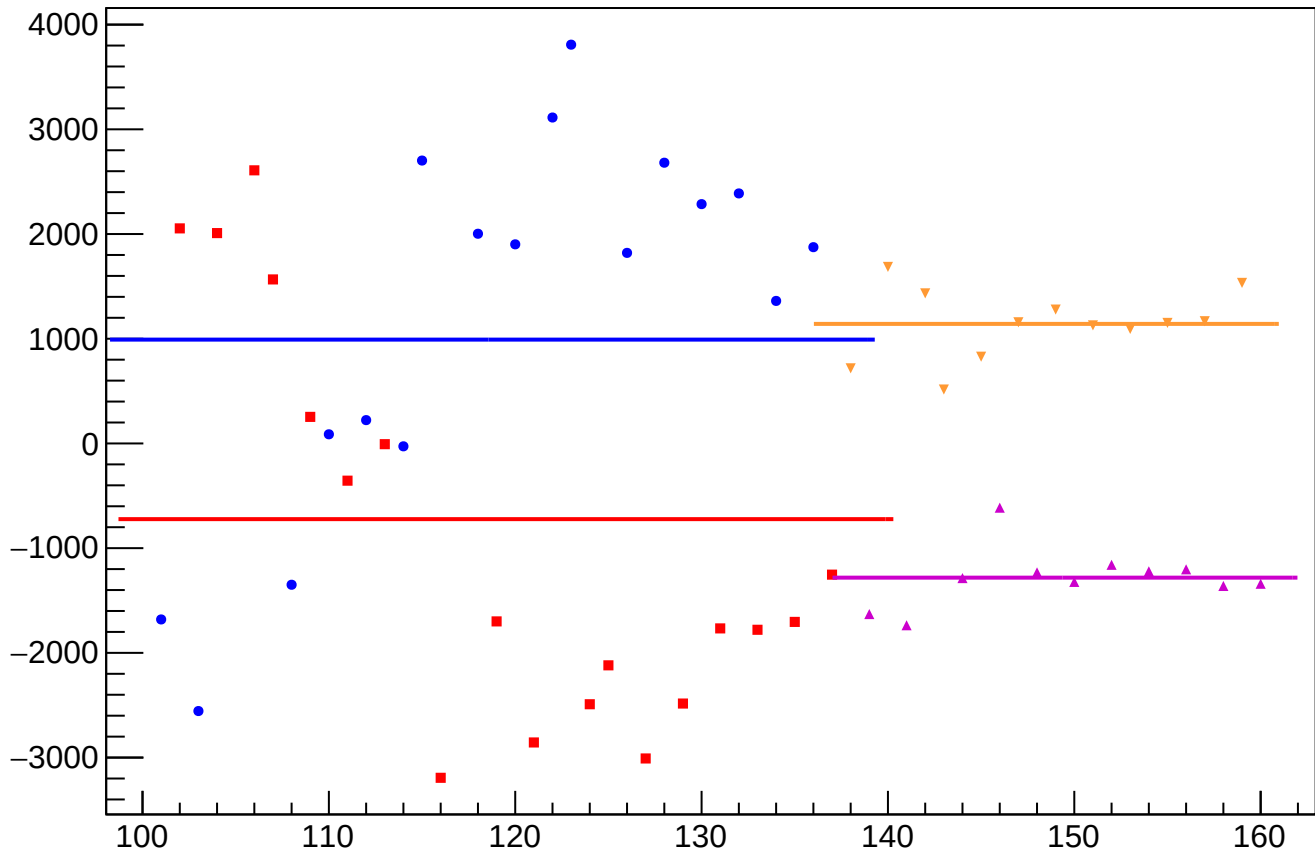
Right In: 165.791 $\pm$ 0.000  $\chi^2$ /NDF: 6599926309722586861325010177468923904.0/16  
 Left Out: 166.830 $\pm$ 0.000  $\chi^2$ /NDF: 2570249887219169860921416363043454976.0/11  
 Right Out: -155.674 $\pm$ 0.000  $\chi^2$ /NDF: 5506170000172026486696305926028132352.0/17  
 Left In: -158.786 $\pm$ 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

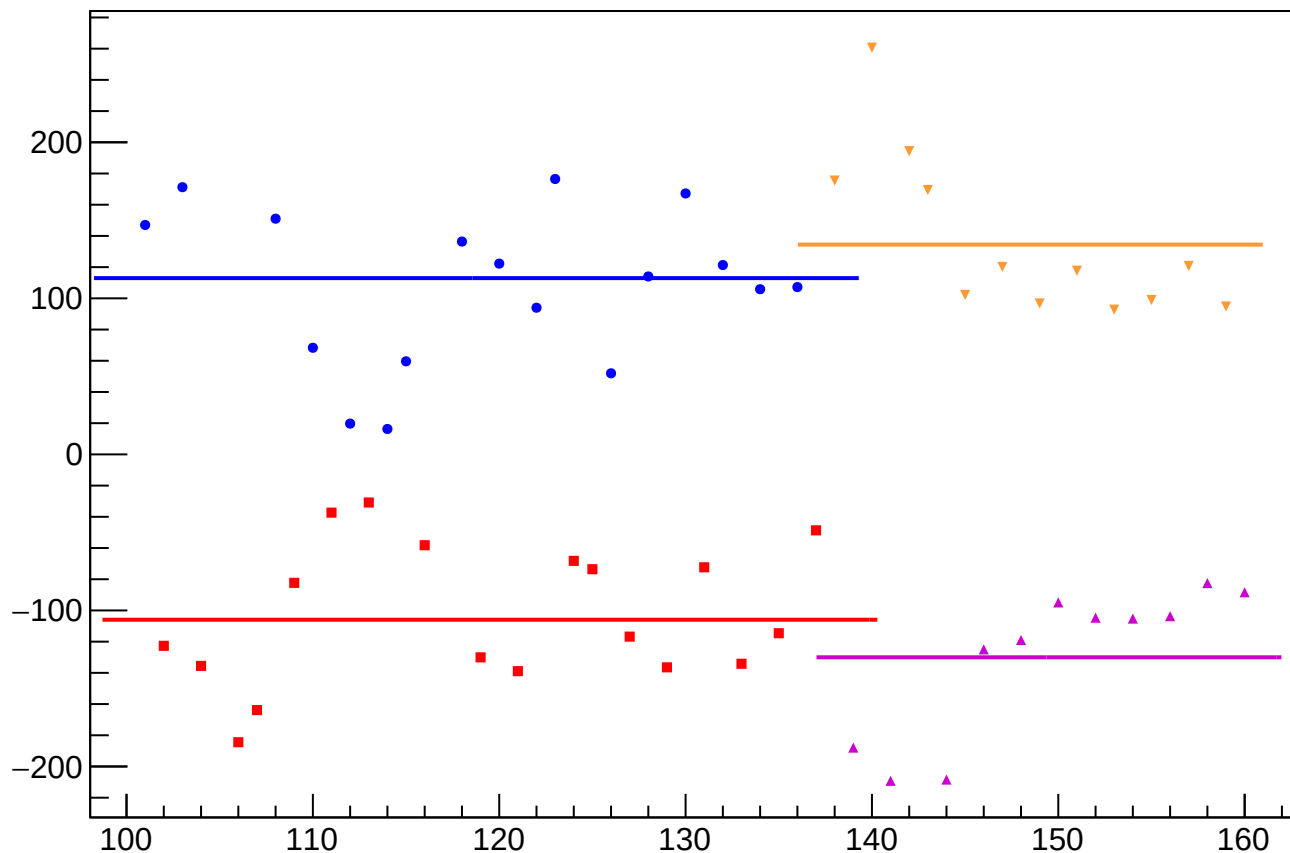
Left In: -1281.659 +/- 0.000

$\chi^2/\text{NDF}$ : 67729567822989794442627212039346454528.0/10

All: 4.137 +/- 0.000  $\chi^2/\text{NDF}$ : 85584155447109

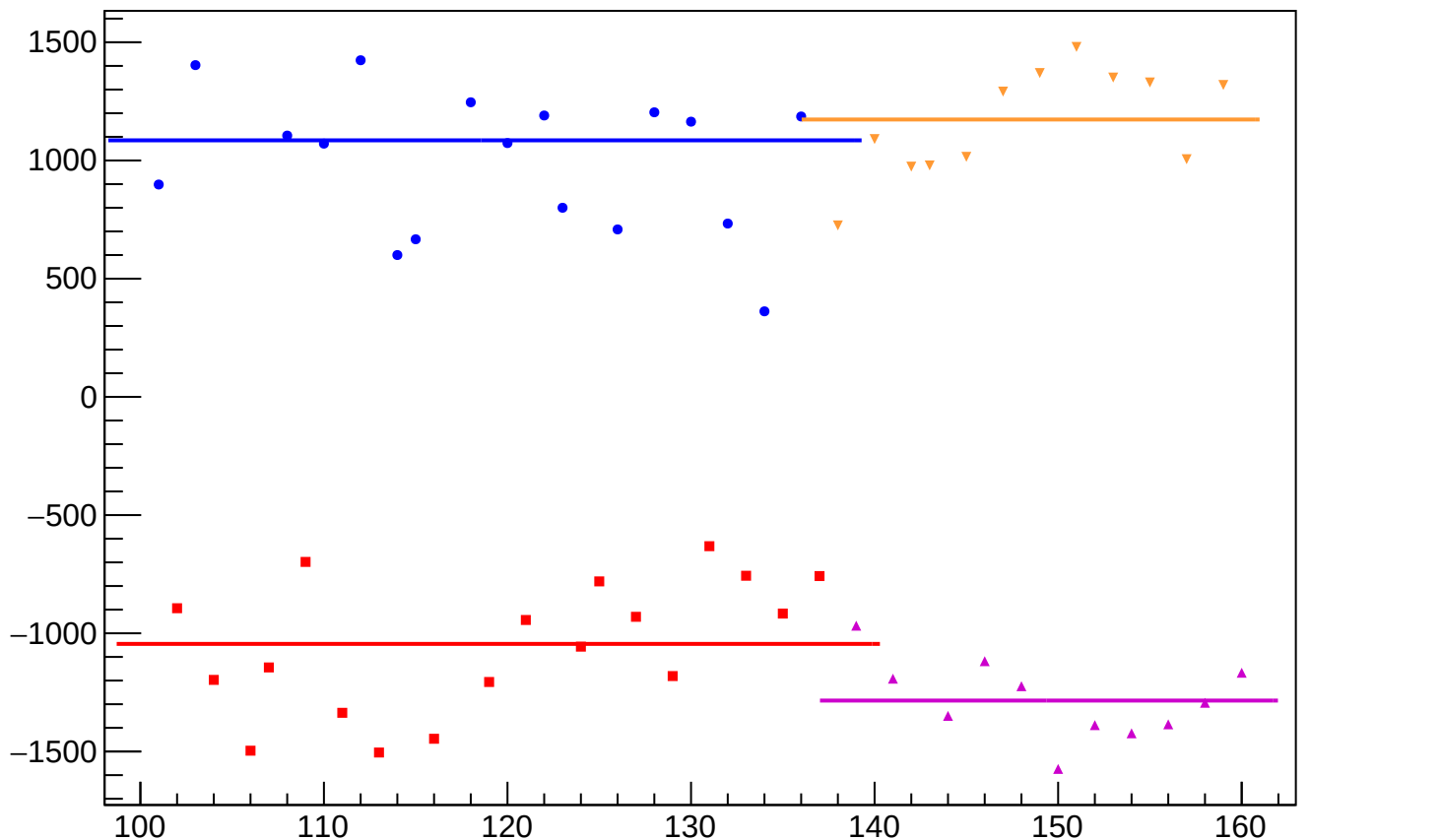


dit\_sam8\_coil4\_err\_mean vs Slug, Sign Corrected



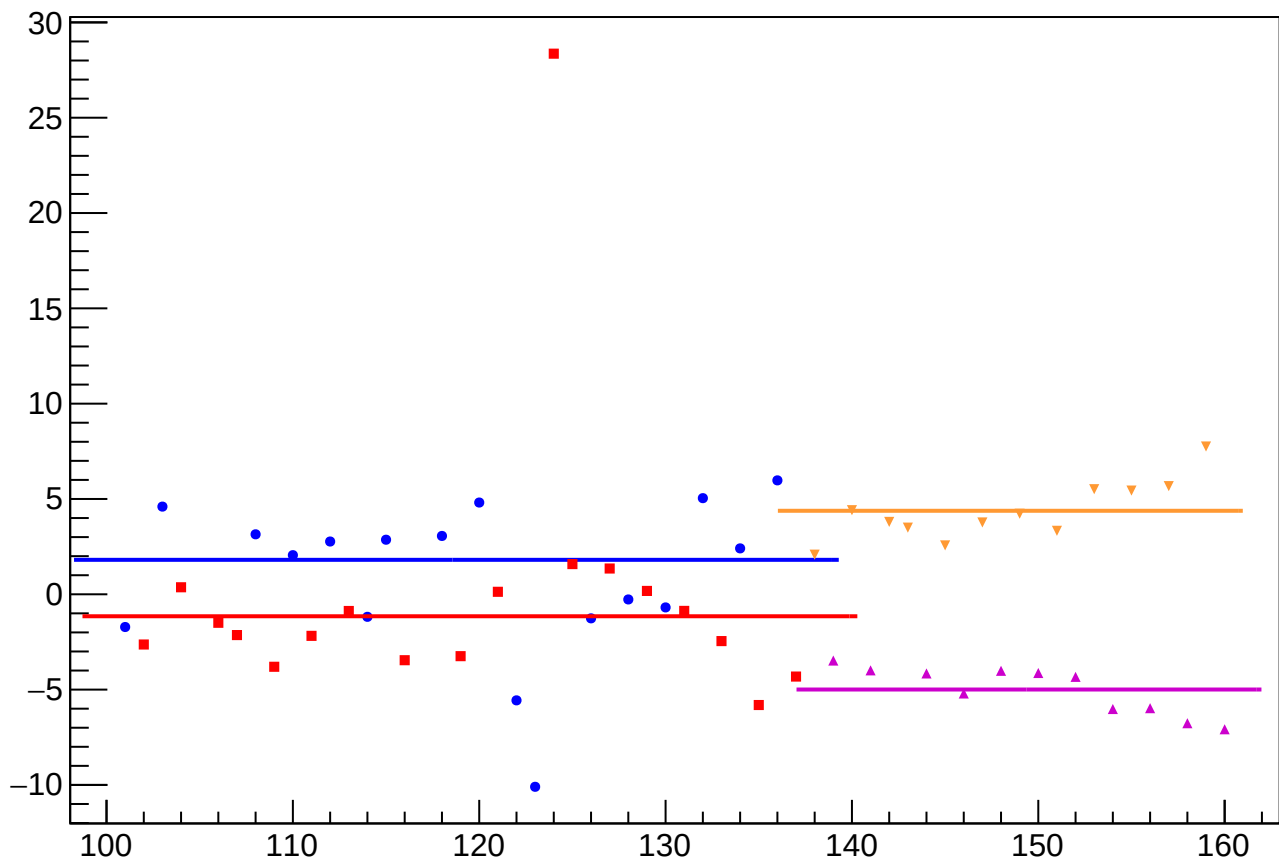
Right In: 112.967 $\pm$ 0.000  $\chi^2$ /NDF: 1352482381635393188272506664826961920.0/16  
 Left Out: 134.431 $\pm$ 0.000  $\chi^2$ /NDF: 2310662516274369890170239716283121664.0/11  
 Right Out: -105.949 $\pm$ 0.000  $\chi^2$ /NDF: 1242528444706792757388488213889286144.0/17  
 Left In: -130.030 $\pm$ 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



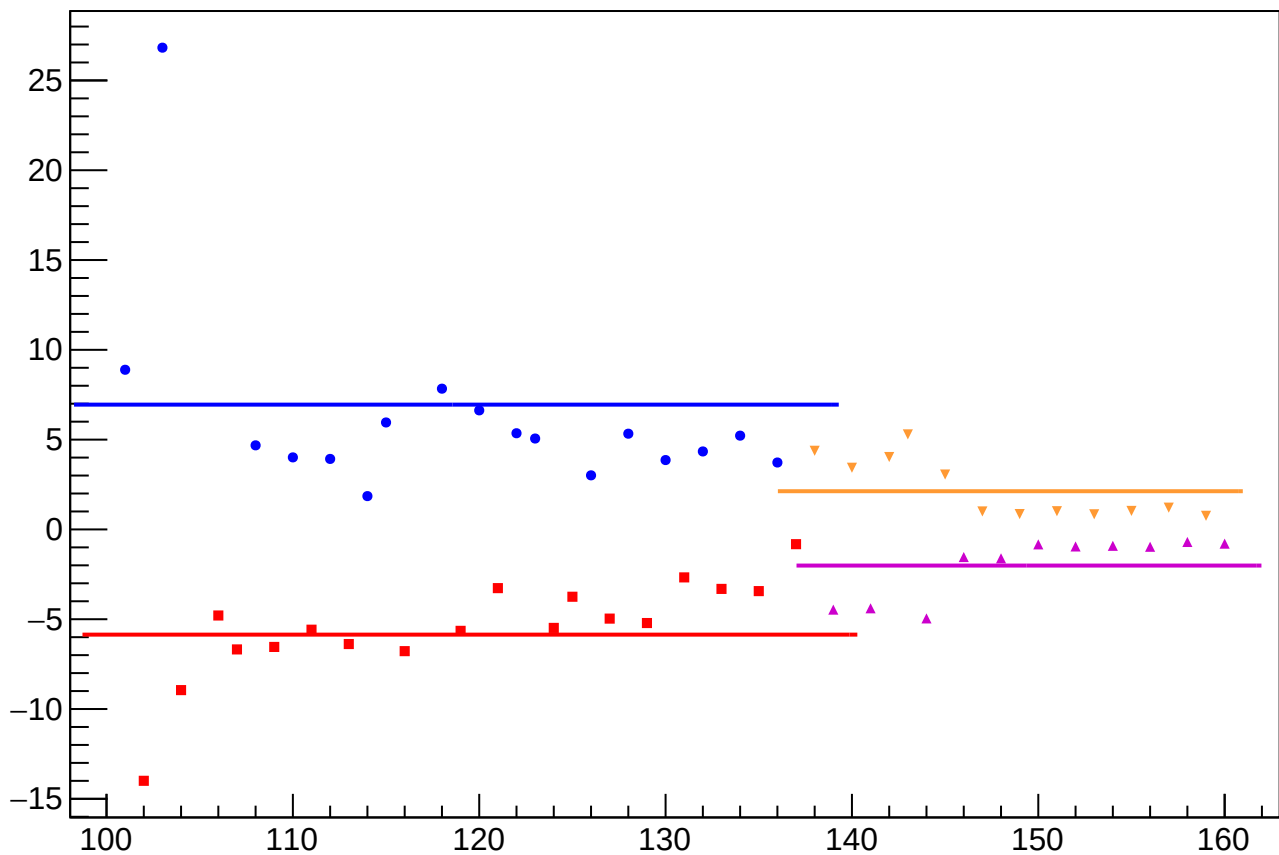
Right In: 1085.186 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 1173.287 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 42540290412411971649148526900629471232.0/11  
 Right Out: -1044.852 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -1284.540 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 24056417049221053484728394918859374592.0/10  
 All: -38.729 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 454584232037

# dit\_4aX\_coil6\_mean vs Slug, Sign Corrected



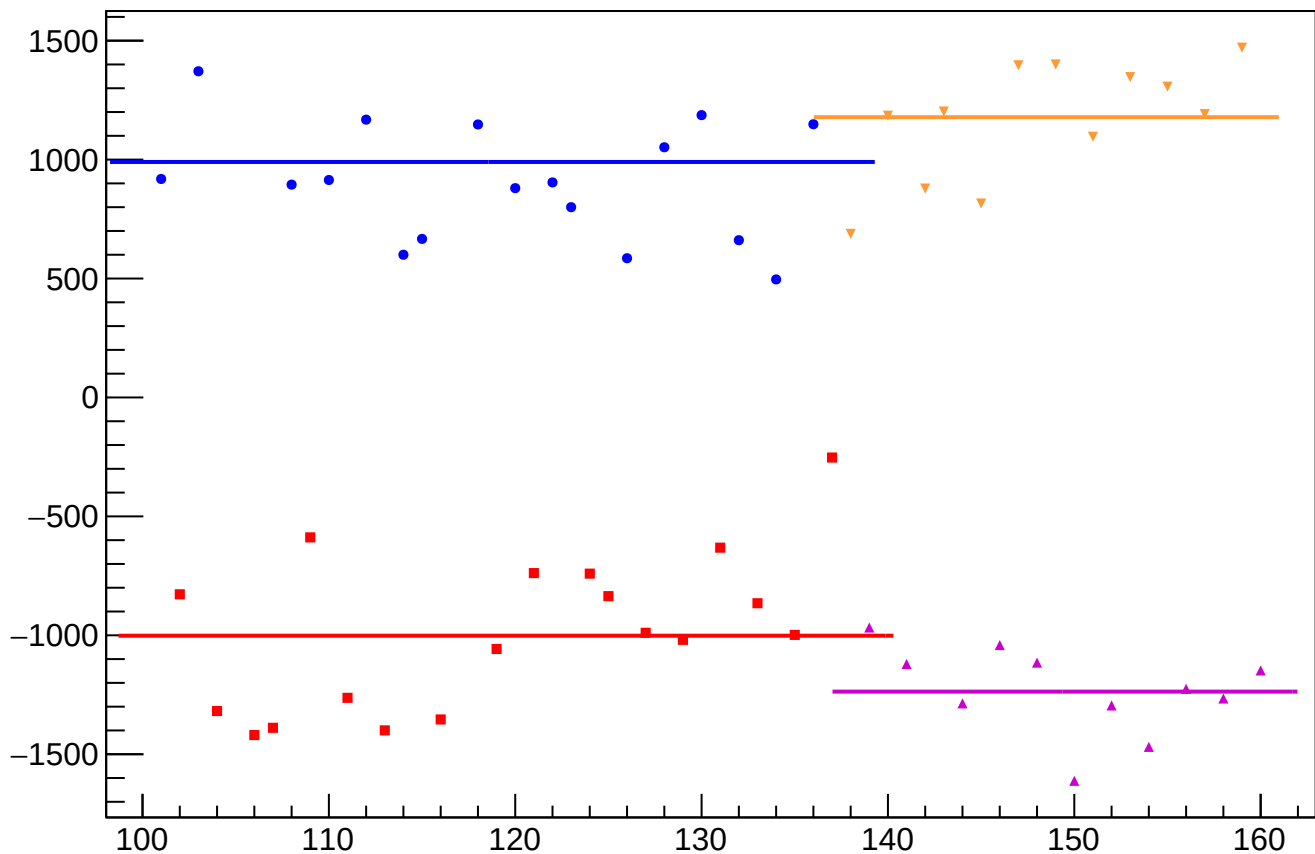
Left: -0.368 +/- 0.000  $\chi^2/NDF$ : 43873074025791905  
 Right In: 1.808 +/- 0.000  $\chi^2/NDF$ : 7527409924358699638476786257362944.0/16  
 Right: 0.306 +/- 0.000  $\chi^2/NDF$ : 25834219652786474  
 Left Out: 4.381 +/- 0.000  $\chi^2/NDF$ : 2086443671311525325222433361920.0/11  
 In: -2.093 +/- 0.000  $\chi^2/NDF$ : 272572376308625862  
 Right Out: -1.152 +/- 0.000  $\chi^2/NDF$ : 15220659080427743810069153064157184.0/17  
 Out: 1.945 +/- 0.000  $\chi^2/NDF$ : 295602269055552019  
 Left In: -4.995 +/- 0.000  $\chi^2/NDF$ : 1311384685098121552827321556140032.0/10  
 All: -0.076 +/- 0.000  $\chi^2/NDF$ : 7006983030788

dit\_4aX\_coil6\_err\_mean vs Slug, Sign Corrected



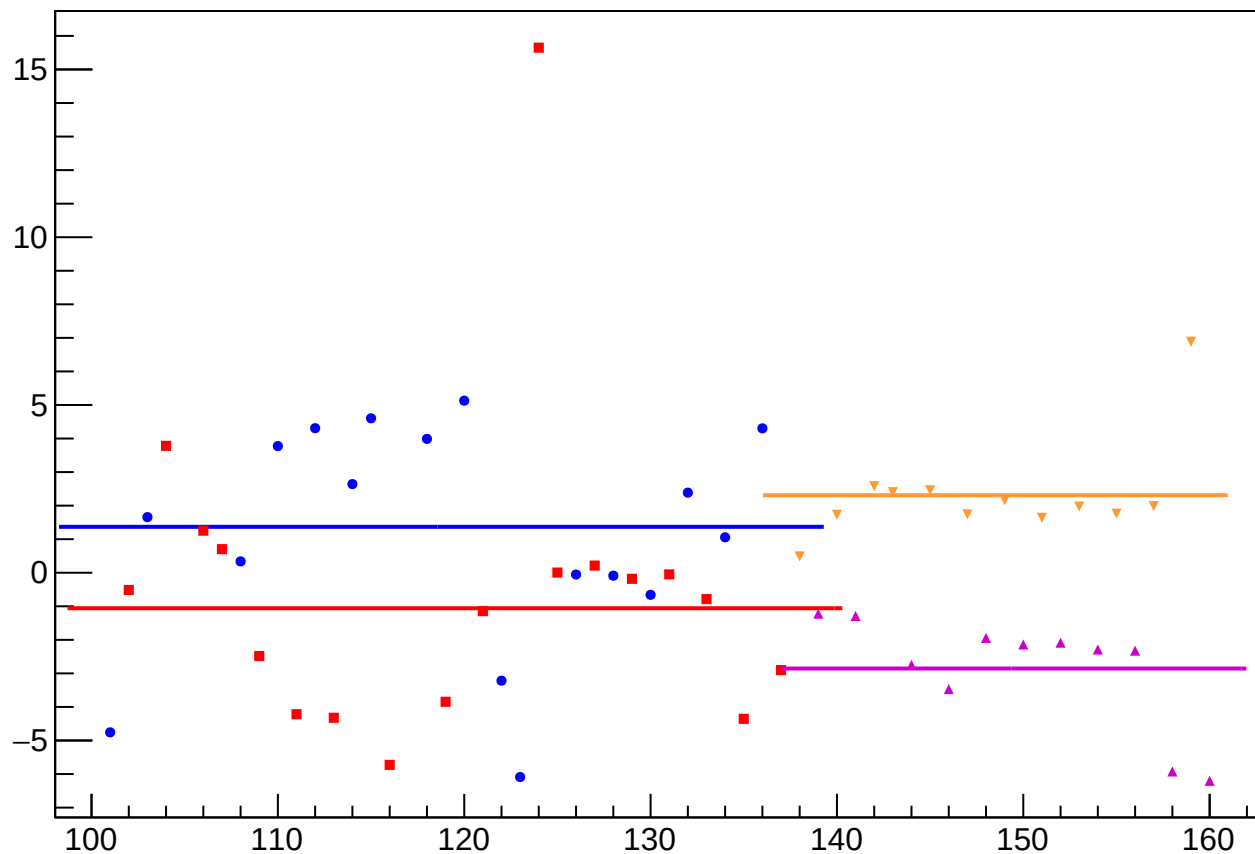
Right In:  $6.948 \pm 0.000$   $\chi^2/\text{NDF}$ : 27500472377838631302114625925939200.0/16  
 Left Out:  $2.128 \pm 0.000$   $\chi^2/\text{NDF}$ : 2219193645273984606349154335064064.0/11  
 Right Out:  $-5.858 \pm 0.000$   $\chi^2/\text{NDF}$ : 6347530911749266996807271930920960.0/17  
 Left In:  $-2.012 \pm 0.000$   $\chi^2/\text{NDF}$ : 2455587486650389464574895818014720.0/10  
 All:  $0.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 10431206184614

dit\_4aX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



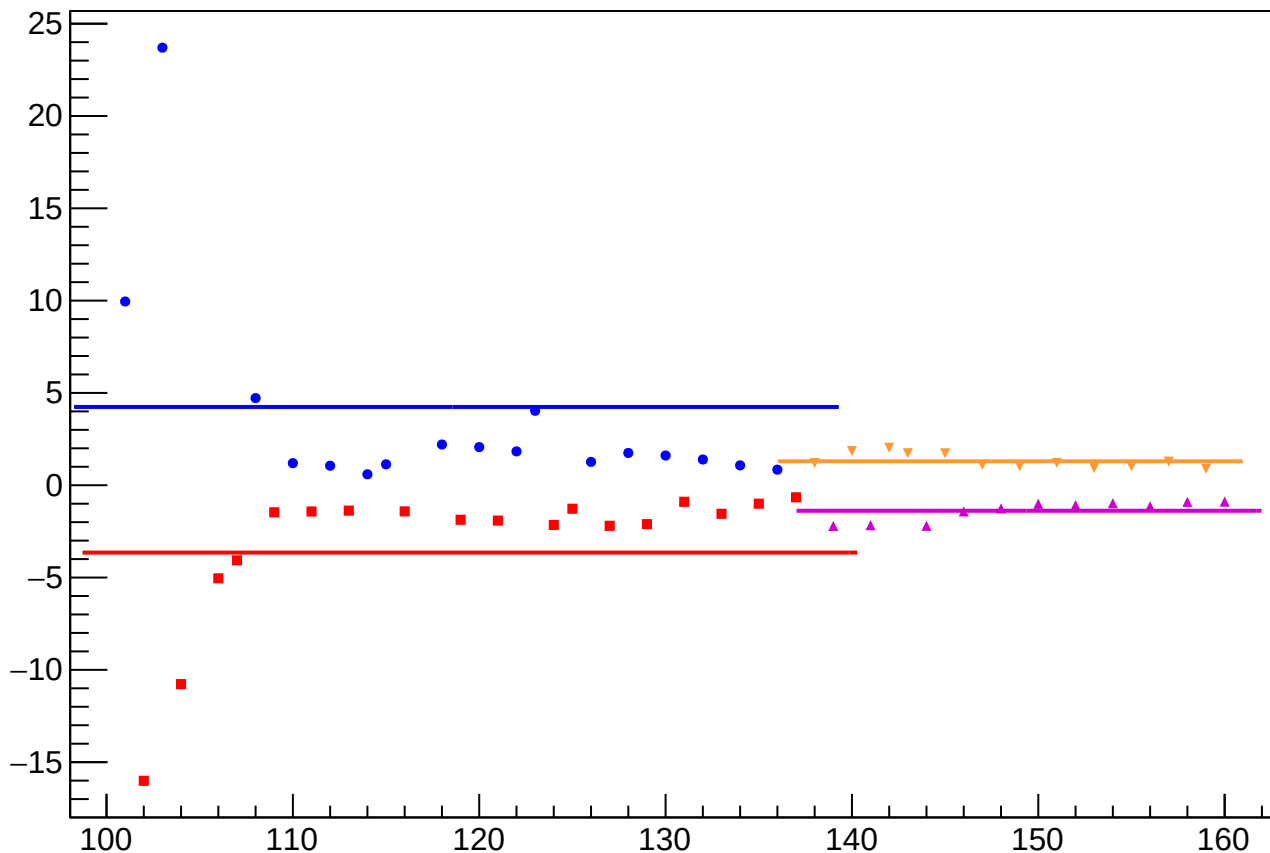
Right In:  $990.104 \pm 0.000$   $\chi^2/\text{NDF}: 36894248833595574425684746704003268608.0/16$   
 Left Out:  $1178.253 \pm 0.000$   $\chi^2/\text{NDF}: 52167705532463382200265414592767721472.0/11$   
 Right Out:  $-1001.684 \pm 0.000$   $\chi^2/\text{NDF}: 61351571695254109773751672489010790400.0/17$   
 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\_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  
 Left Out:  $2.311 \pm 0.000$   $\chi^2/\text{NDF}$ : 2071801880392961895564472831967232.0/11  
 Right Out:  $-1.058 \pm 0.000$   $\chi^2/\text{NDF}$ : 8169457084716591134016374239657984.0/17  
 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



Left: -0.060 +/- 0.000  $\chi^2/\text{NDF}$ : 36742653676039880

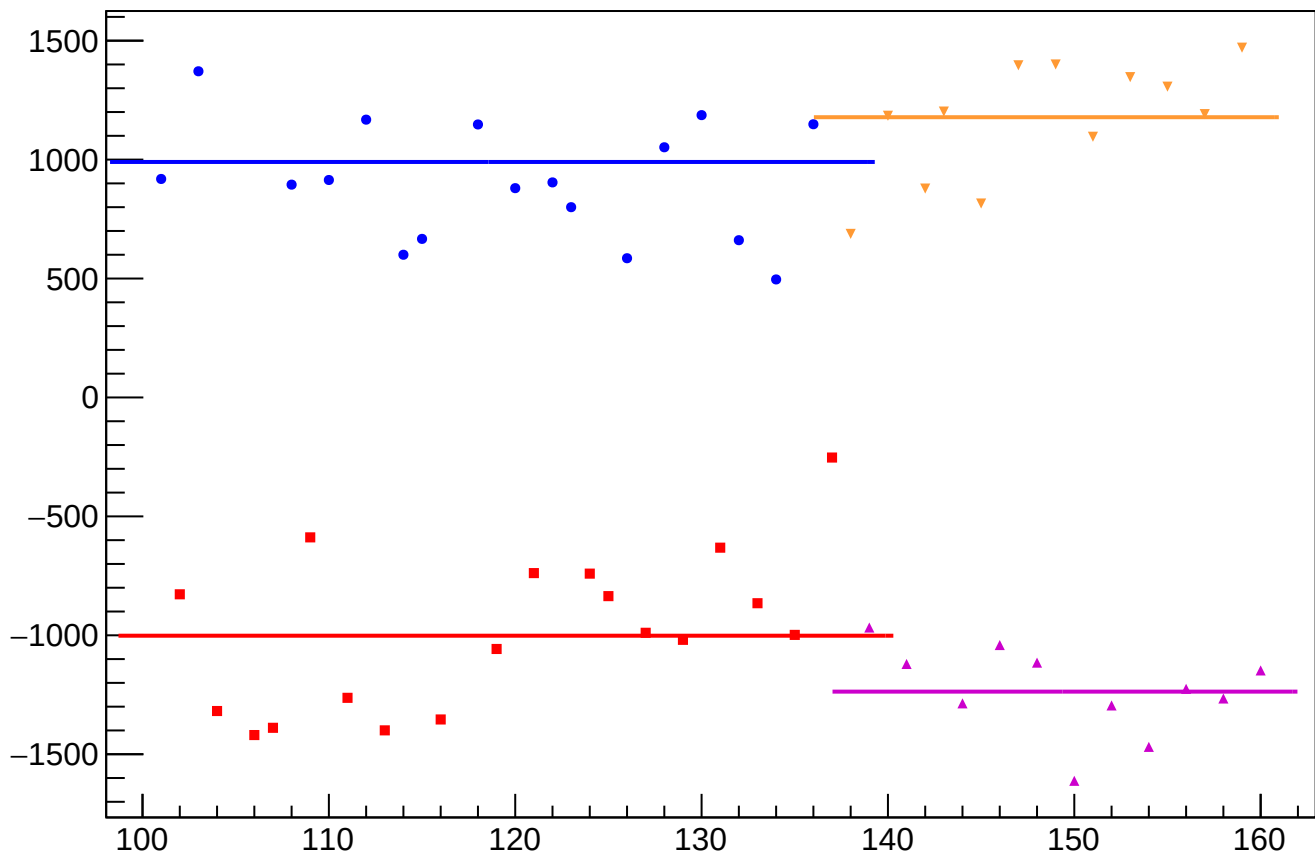
Right: 0.238 +/- 0.000  $\chi^2/\text{NDF}$ : 64554670060166565

In: 1.016 +/- 0.000  $\chi^2/\text{NDF}$ : 4145174476595097073

Out: -0.879 +/- 0.000  $\chi^2/\text{NDF}$ : 23929140157739456

All: 0.069 +/- 0.000  $\chi^2/\text{NDF}$ : 68299772952141

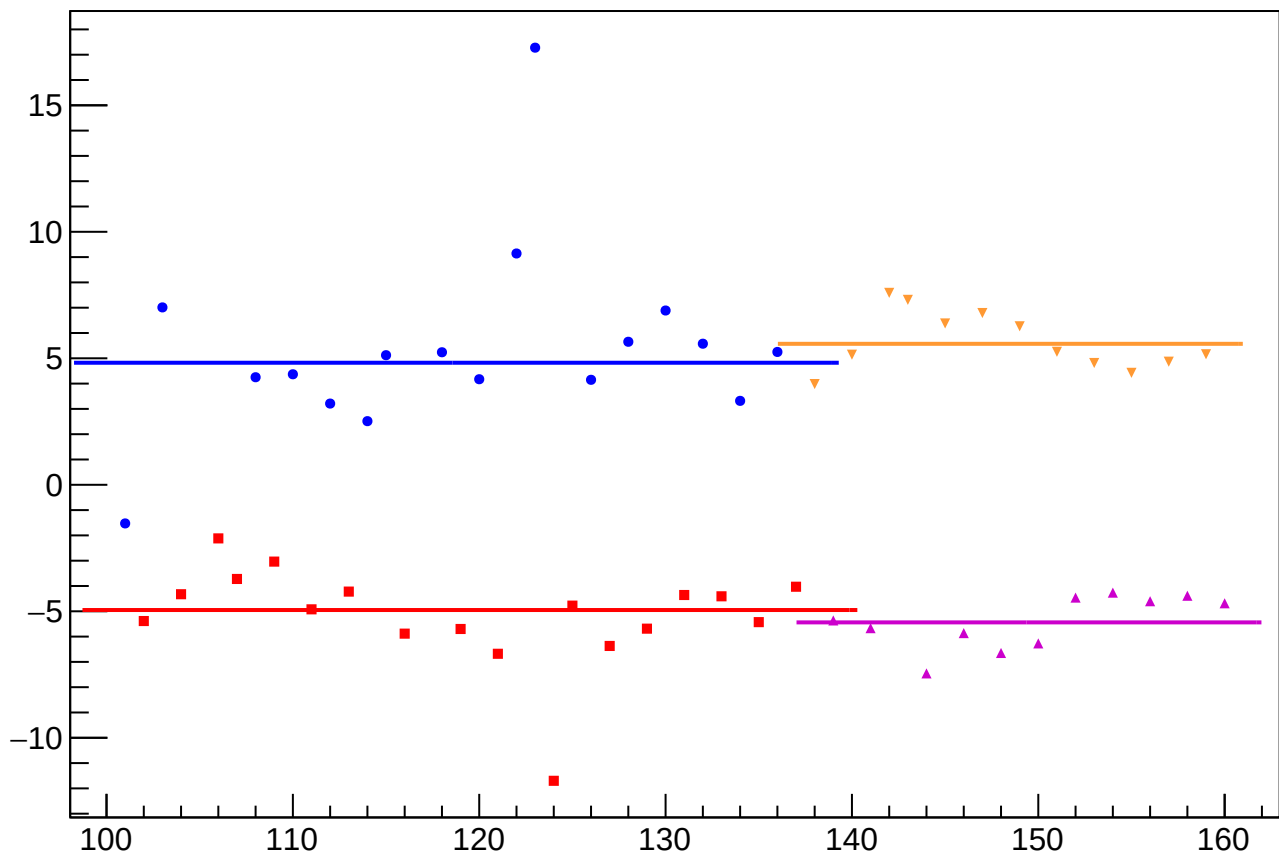
dit\_4eX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

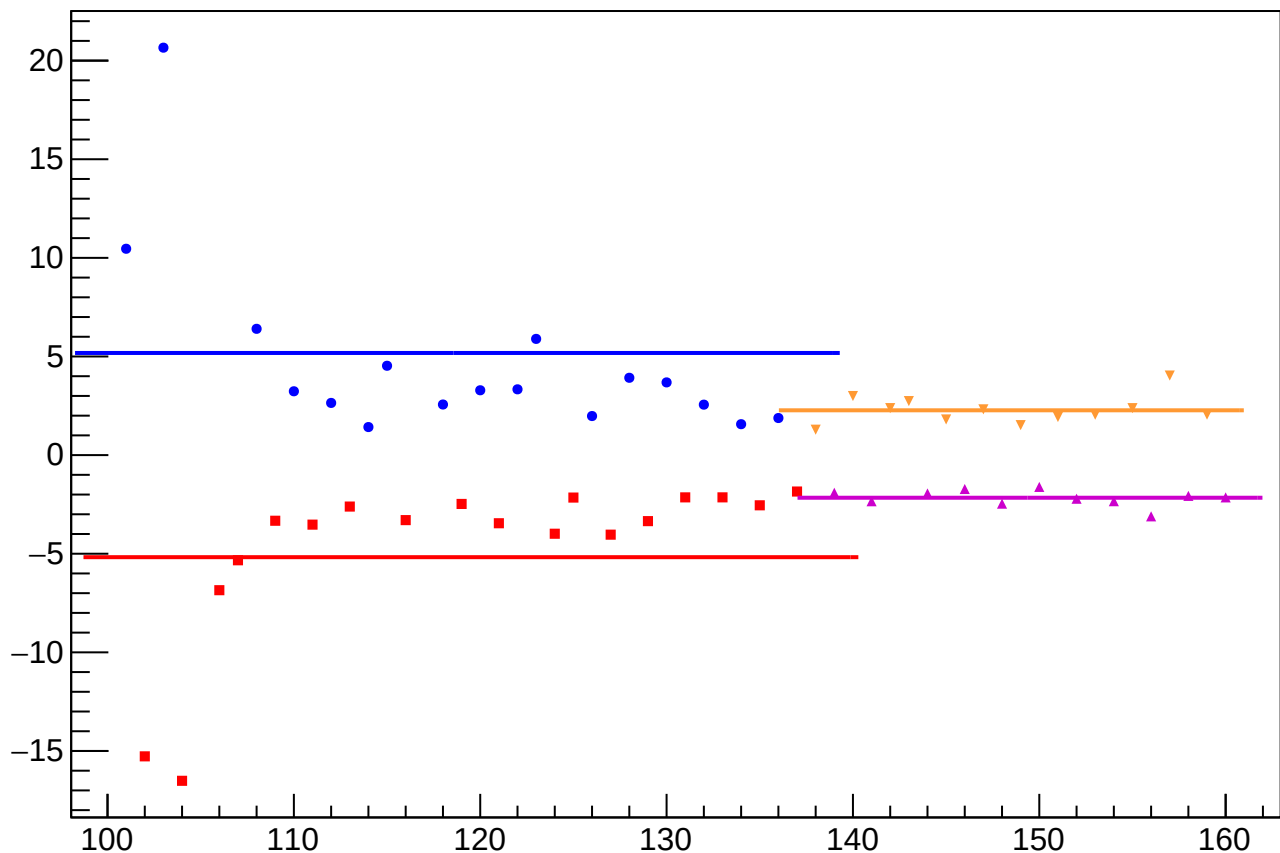


dit\_11X12X\_coil6\_mean vs Slug, Sign Corrected



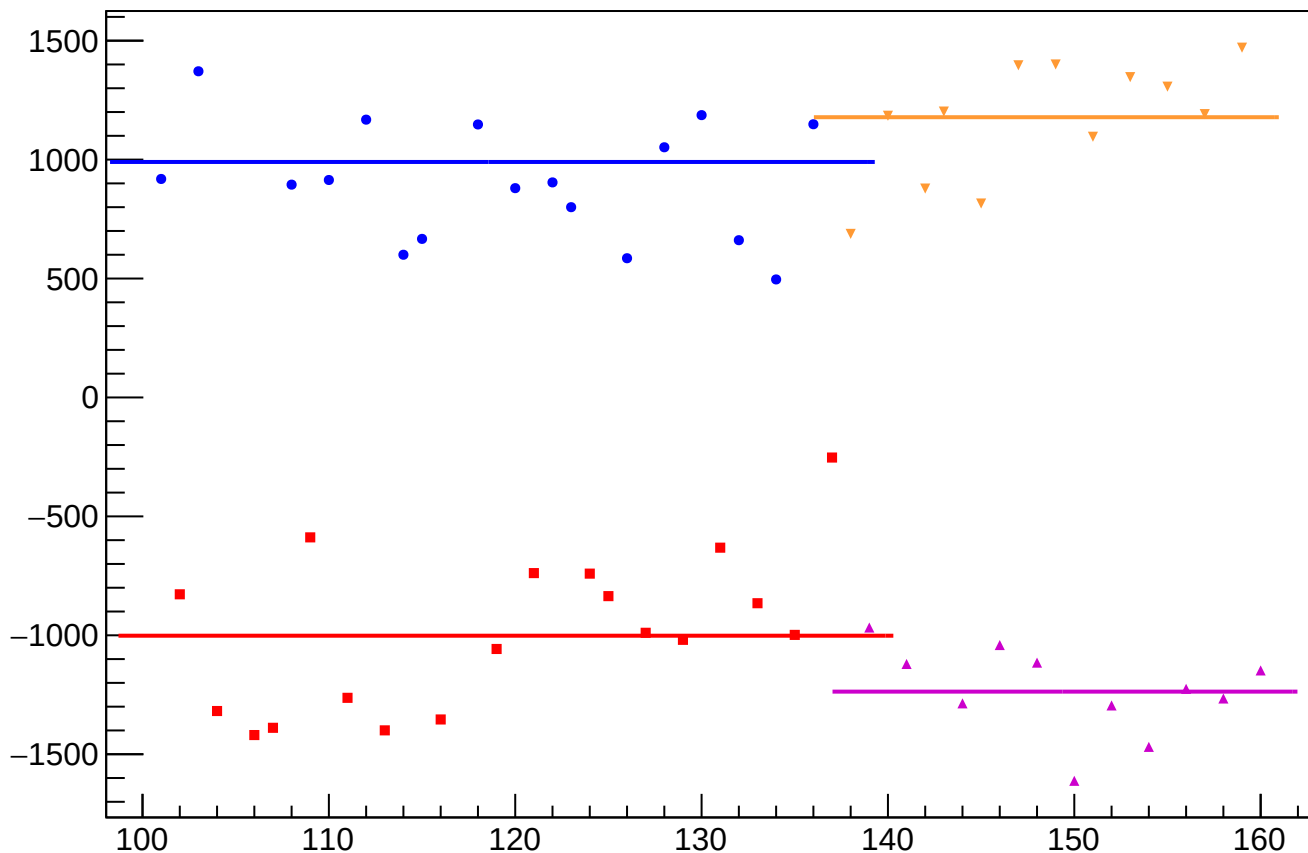
Left: -0.005 +/- 0.000  $\chi^2/\text{NDF}$ : 57809229757761740  
 Right: -0.136 +/- 0.000  $\chi^2/\text{NDF}$ : 3981401538460137  
 In: -1.061 +/- 0.000  $\chi^2/\text{NDF}$ : 475387196018274355  
 Out: 0.940 +/- 0.000  $\chi^2/\text{NDF}$ : 468450835425449454  
 All: -0.061 +/- 0.000  $\chi^2/\text{NDF}$ : 9763689586043

dit\_11X12X\_coil6\_err\_mean vs Slug, Sign Corrected



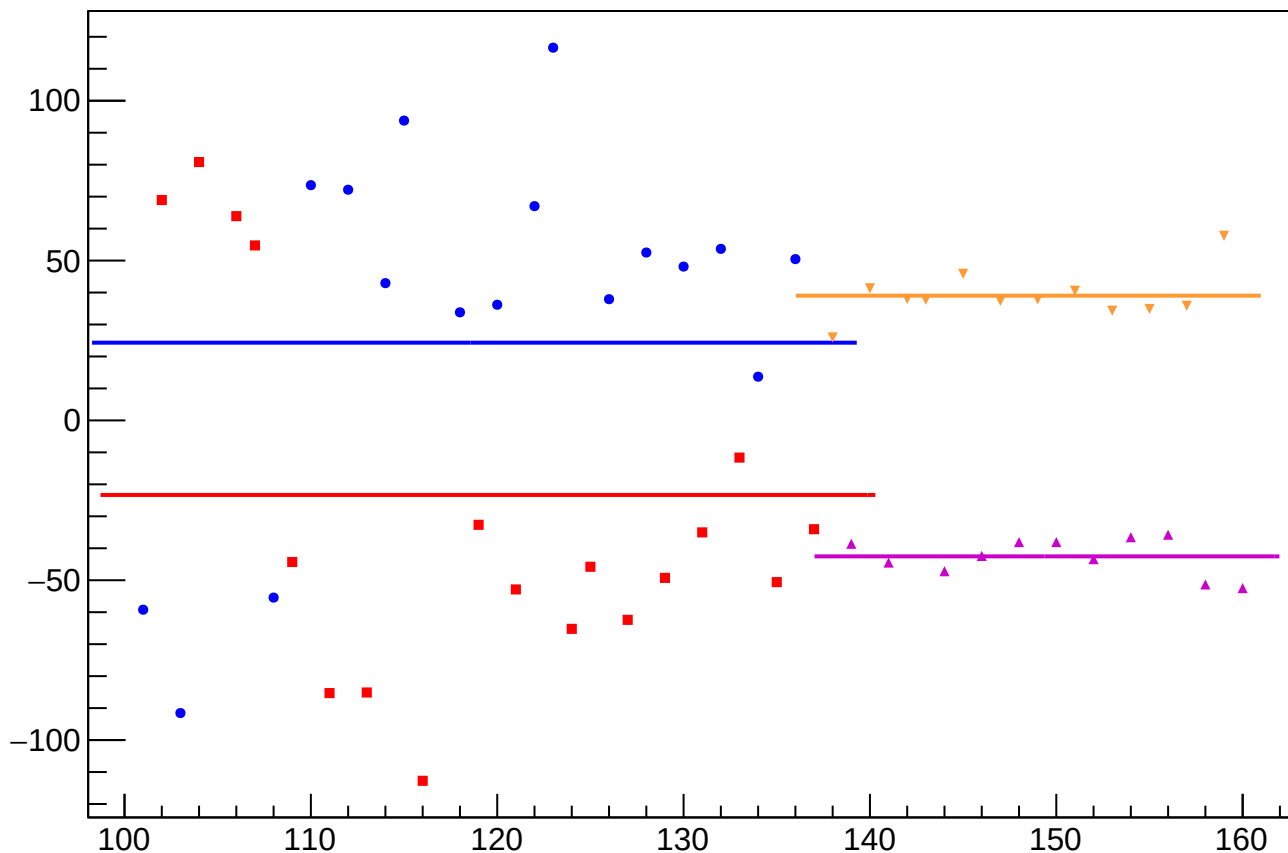
Right In:  $5.179 \pm 0.000$   $\chi^2/\text{NDF}$ : 19215970923479019199836696755568640.0/16  
 Left Out:  $2.271 \pm 0.000$   $\chi^2/\text{NDF}$ : 445973362143922999565724801826816.0/11  
 Right Out:  $-5.175 \pm 0.000$   $\chi^2/\text{NDF}$ : 15553868406688086696237036103270400.0/17  
 Left In:  $-2.161 \pm 0.000$   $\chi^2/\text{NDF}$ : 138371088754302765080927377817600.0/10  
 All:  $-0.018 \pm 0.000$   $\chi^2/\text{NDF}$ : 8216013484871

dit\_11X12X\_coil6\_Ndata\_mean vs Slug, Sign Corrected



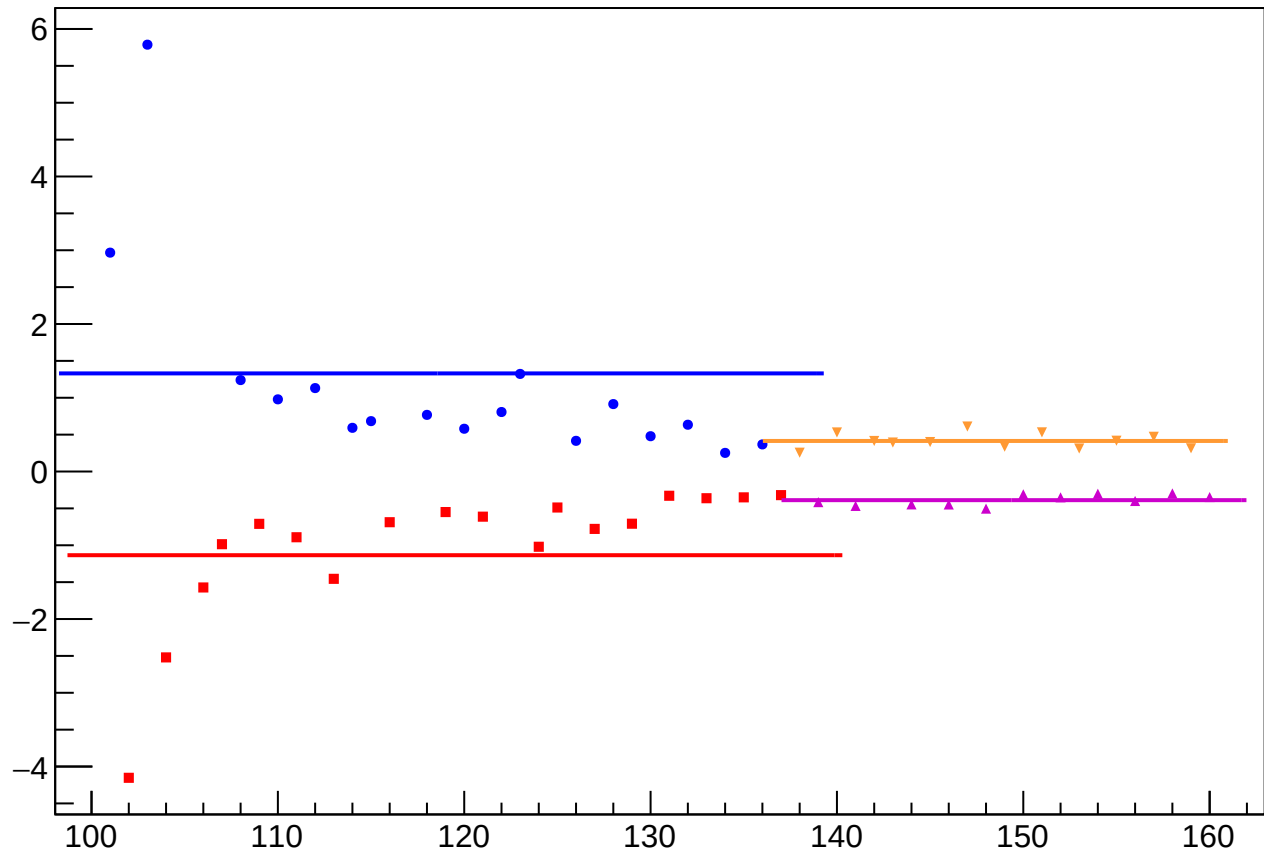
Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -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



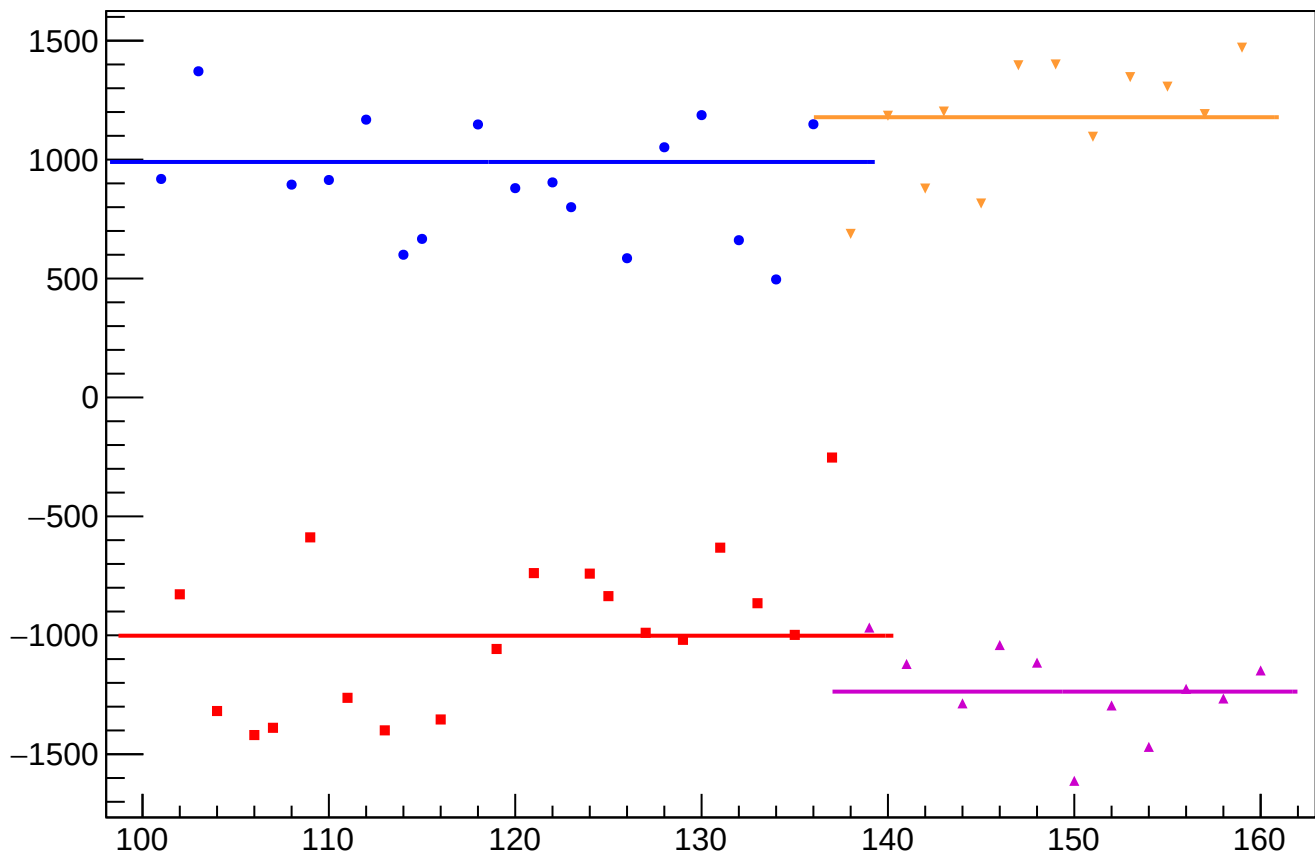
Right In:  $24.318 \pm 0.000$   $\chi^2/\text{NDF}: 2002814634195538334157710520710332416.0/16$   
 Left Out:  $39.019 \pm 0.000$   $\chi^2/\text{NDF}: 50102899546886796047994324336508928.0/11$   
 Right Out:  $-23.323 \pm 0.000$   $\chi^2/\text{NDF}: 2300287491781415748029178925971144704.0/17$   
 Left 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



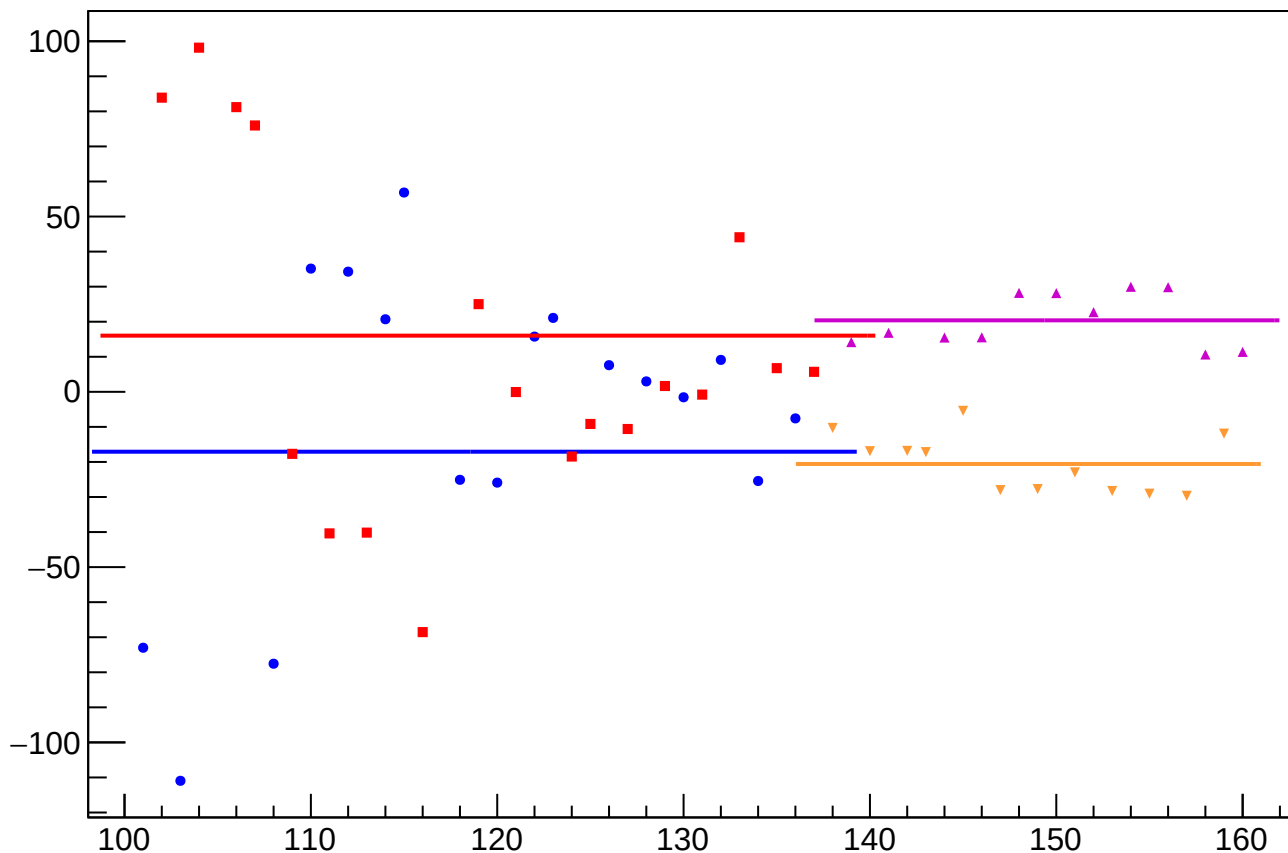
Right In: 1.330 $\pm$ 0.000  $\chi^2$ /NDF: 1603106167275520107151234942631936.0/16  
 Left Out: 0.414 $\pm$ 0.000  $\chi^2$ /NDF: 9567880309690591091908795170816.0/11  
 Right Out: -1.135 $\pm$ 0.000  $\chi^2$ /NDF: 803137408294494563054397652205568.0/17  
 Left In: -0.388 $\pm$ 0.000  $\chi^2$ /NDF: 4478292013674144747987763462144.0/10  
 All: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 48607412454167

dit\_4aY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $990.104 \pm 0.000$   $\chi^2/\text{NDF}: 36894248833595574425684746704003268608.0/16$   
 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\_4eY\_coil6\_mean vs Slug, Sign Corrected



Right In: -17.080 $\pm$ 0.000

Left Out: -20.578 $\pm$ 0.000

Right Out: 16.026 $\pm$ 0.000

Left In: 20.391 $\pm$ 0.000

$\chi^2$ /NDF: 1305852396524110552444351569704517632.0/16

$\chi^2$ /NDF: 60639888412264927004894637808680960.0/11

$\chi^2$ /NDF: 1544075638091019901834252047429402624.0/17

$\chi^2$ /NDF: 49123532237880600080923761508876288.0/10

Left: 0.173 $\pm$ 0.000  $\chi^2$ /NDF: 882578196183851559

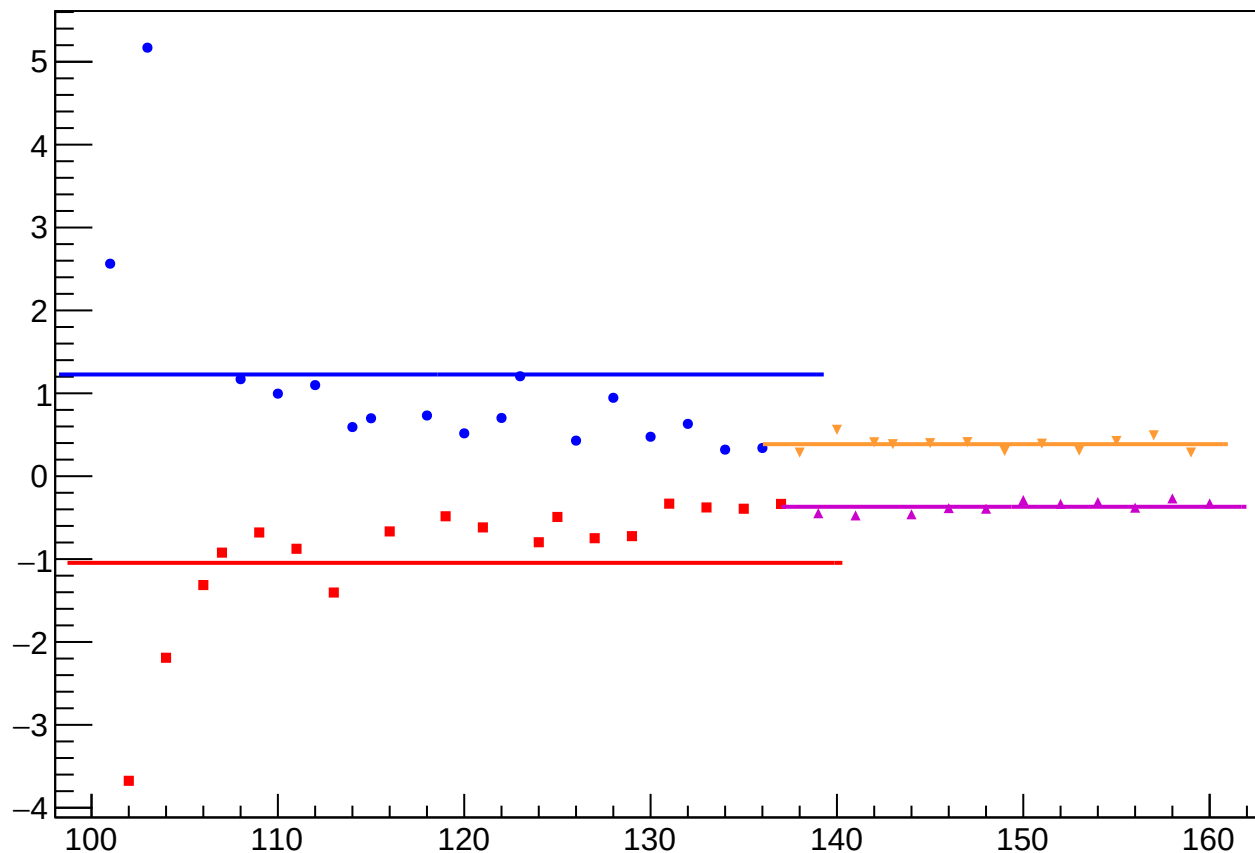
Right: -0.280 $\pm$ 0.000  $\chi^2$ /NDF: 3235905793745171

In: 4.408 $\pm$ 0.000  $\chi^2$ /NDF: 1913755264371690539

Out: -4.462 $\pm$ 0.000  $\chi^2$ /NDF: 21409436551720281

All: -0.023 $\pm$ 0.000  $\chi^2$ /NDF: 4118648127034

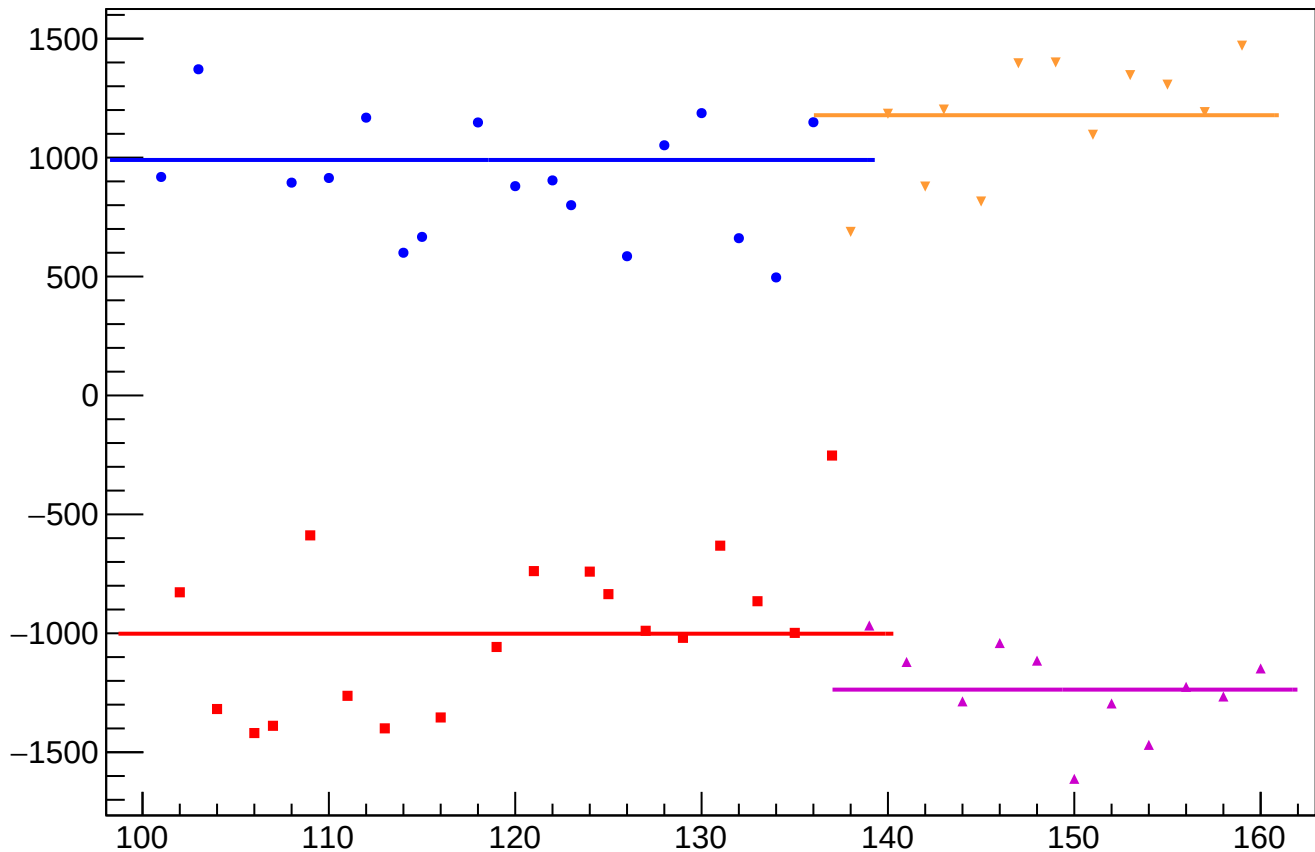
dit\_4eY\_coil6\_err\_mean vs Slug, Sign Corrected



Right In:  $1.227 \pm 0.000$   $\chi^2/\text{NDF}: 1236268785411842731770087408140288.0/16$   
 Left Out:  $0.386 \pm 0.000$   $\chi^2/\text{NDF}: 6218656899307774549221745623040.0/11$   
 Right Out:  $-1.045 \pm 0.000$   $\chi^2/\text{NDF}: 600057841416365938926945245855744.0/17$   
 Left In:  $-0.369 \pm 0.000$   $\chi^2/\text{NDF}: 4180194840459374093507993010176.0/10$   
 All:  $0.034 \pm 0.000$   $\chi^2/\text{NDF}: 39322772320005$

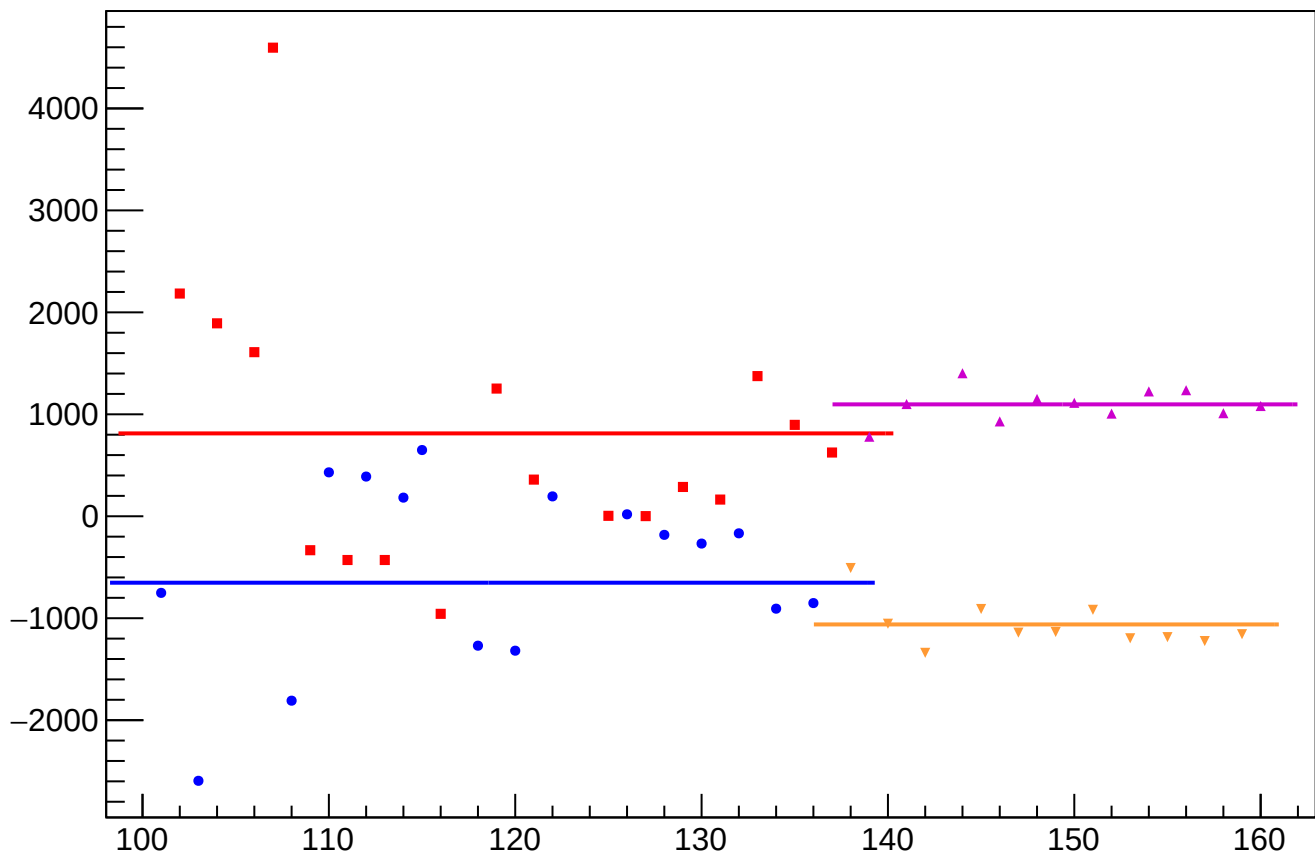


dit\_4eY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

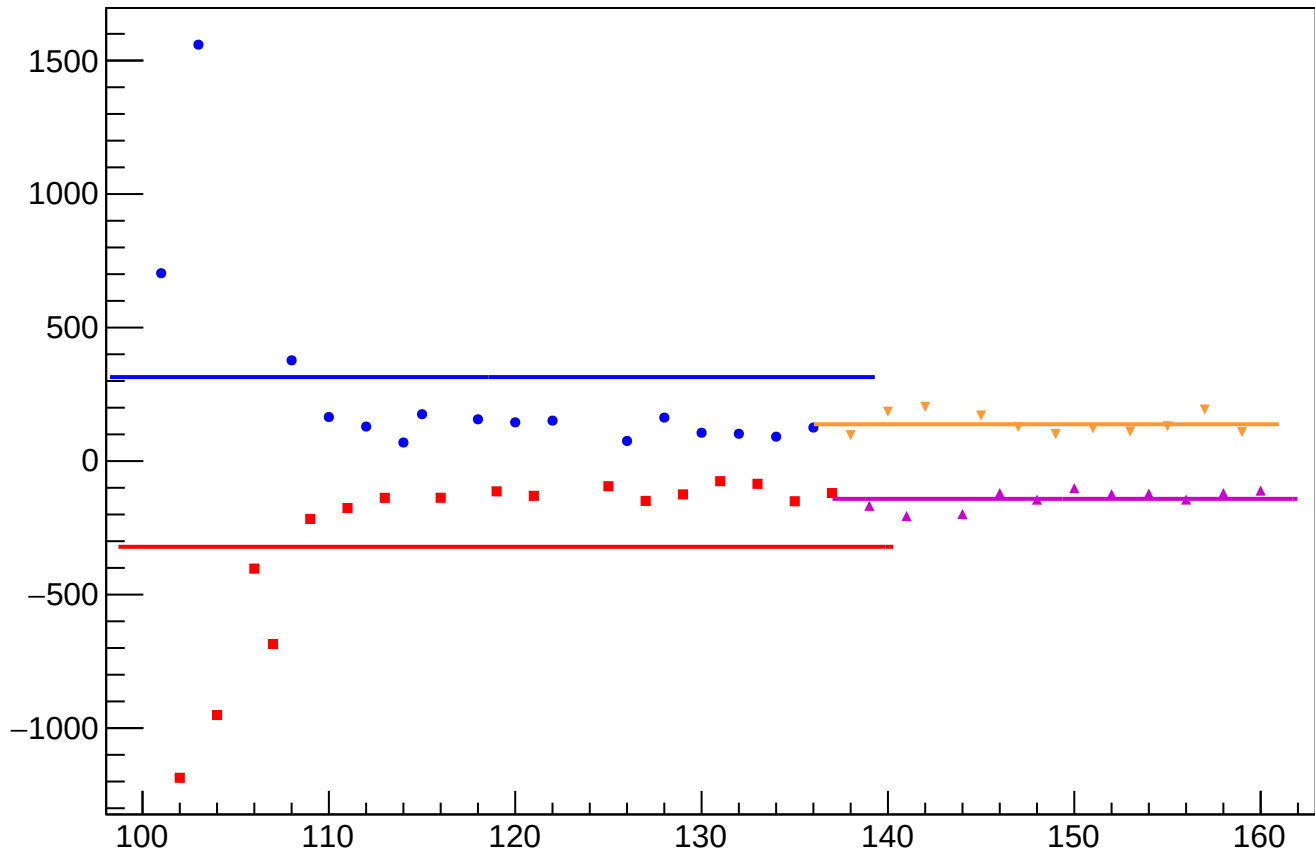
$\chi^2/\text{NDF}$ : 1101460876390641458322598423370785619968.0/16

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

Left: -8.924 +/- 0.000  $\chi^2/\text{NDF}$ : 36646985867687386

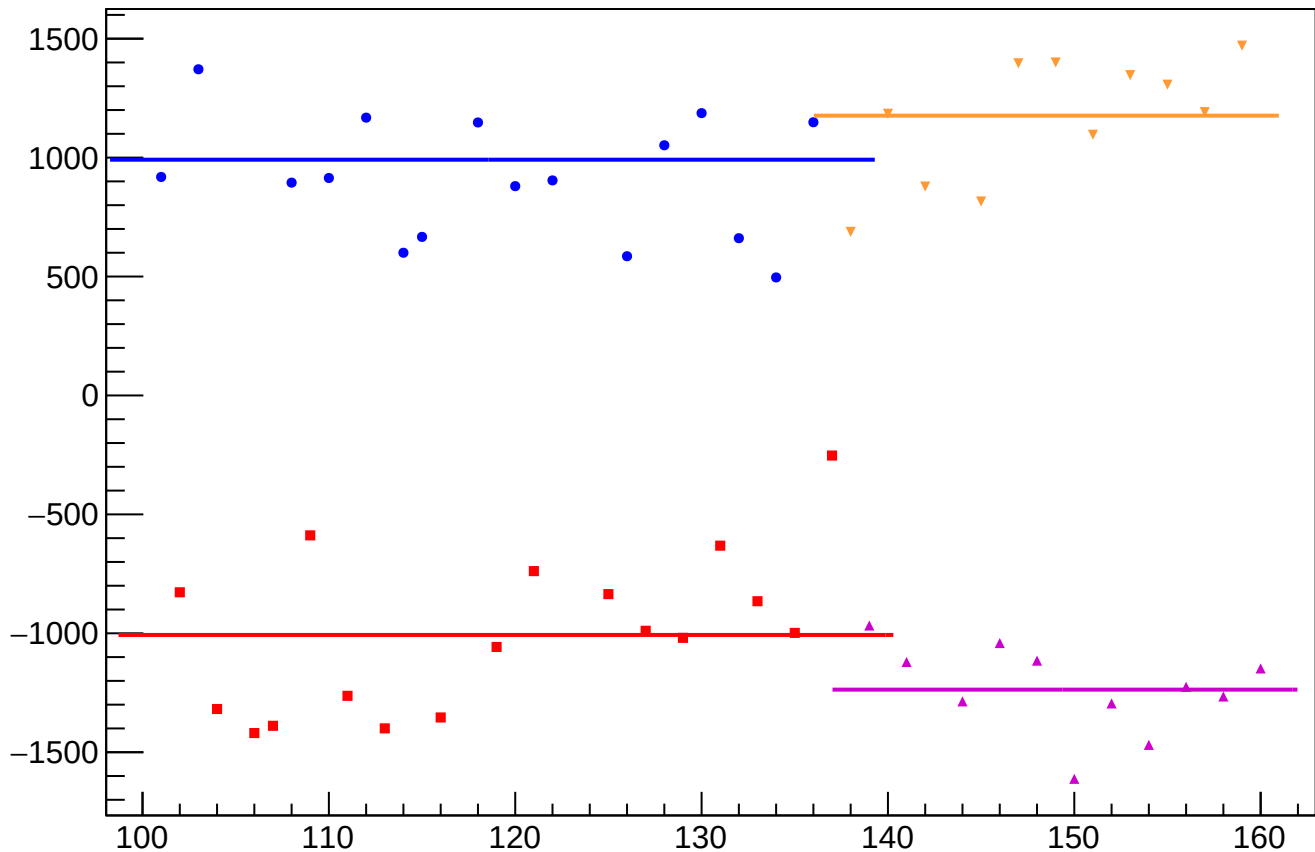
Right: -5.692 +/- 0.000  $\chi^2/\text{NDF}$ : 3473223749220098

In: 52.462 +/- 0.000  $\chi^2/\text{NDF}$ : 202737200967554605

Out: -70.579 +/- 0.000  $\chi^2/\text{NDF}$ : 1692653283089587

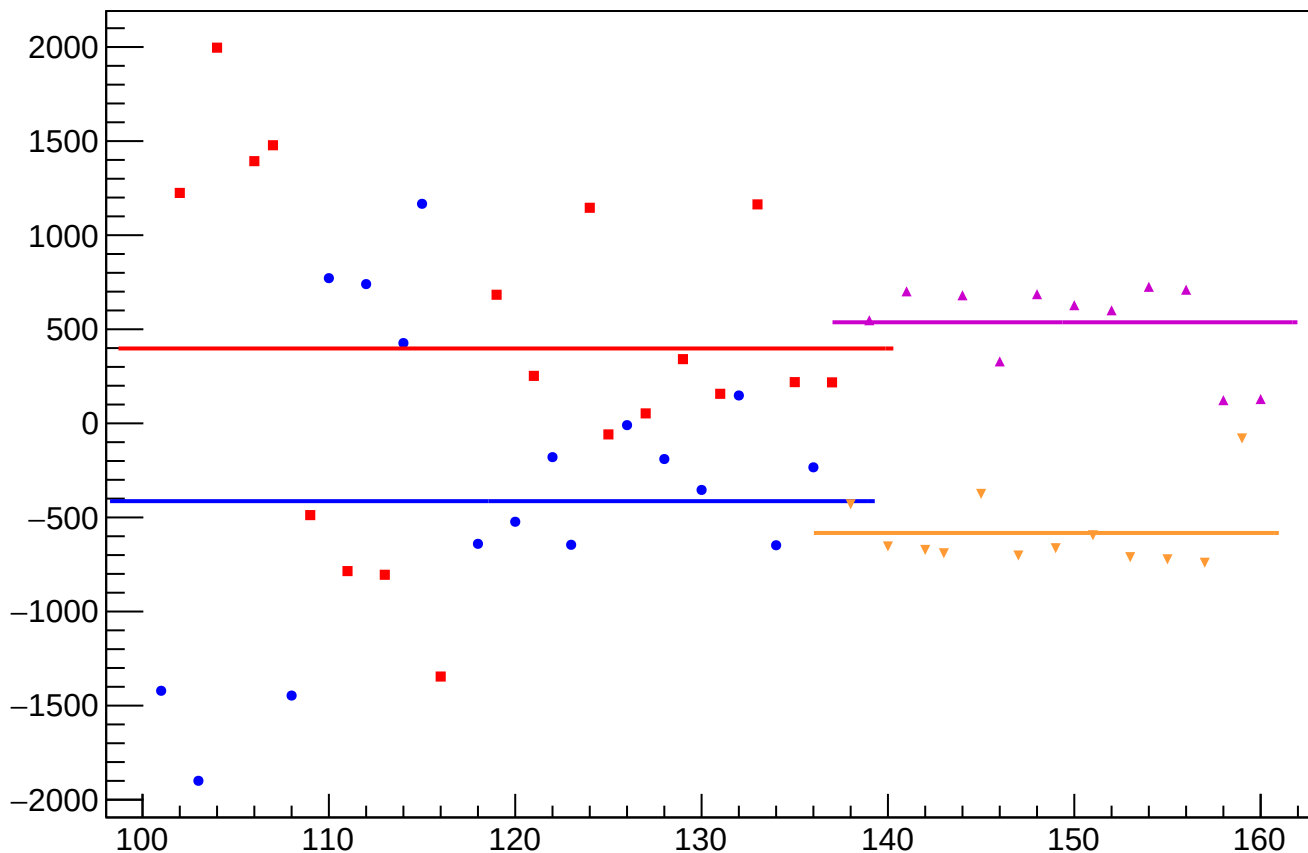
All: -7.504 +/- 0.000  $\chi^2/\text{NDF}$ : 3839775082009

dit\_usl\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $991.206 \pm 0.000$   $\chi^2/\text{NDF}: 36748853080147814133782972147039207424.0/15$   
 Left Out:  $1176.365 \pm 0.000$   $\chi^2/\text{NDF}: 52126967778678264824660469189129011200.0/10$   
 Right Out:  $-1006.896 \pm 0.000$   $\chi^2/\text{NDF}: 60379057385364851969891575322776698880.0/16$   
 Left In:  $-1236.792 \pm 0.000$   $\chi^2/\text{NDF}: 30308096320717107629965970940123676672.0/10$   
 All:  $-58.538 \pm 0.000$   $\chi^2/\text{NDF}: 414968863069$

# dit\_usr\_coil6\_mean vs Slug, Sign Corrected



Right In:  $-413.418 \pm 0.000$

$\chi^2/\text{NDF}$ : 416661262936725907024907175037323182080.0/16

Left Out:  $-582.459 \pm 0.000$

$\chi^2/\text{NDF}$ : 33467960128357815096221409884680224768.0/11

Right Out:  $397.961 \pm 0.000$

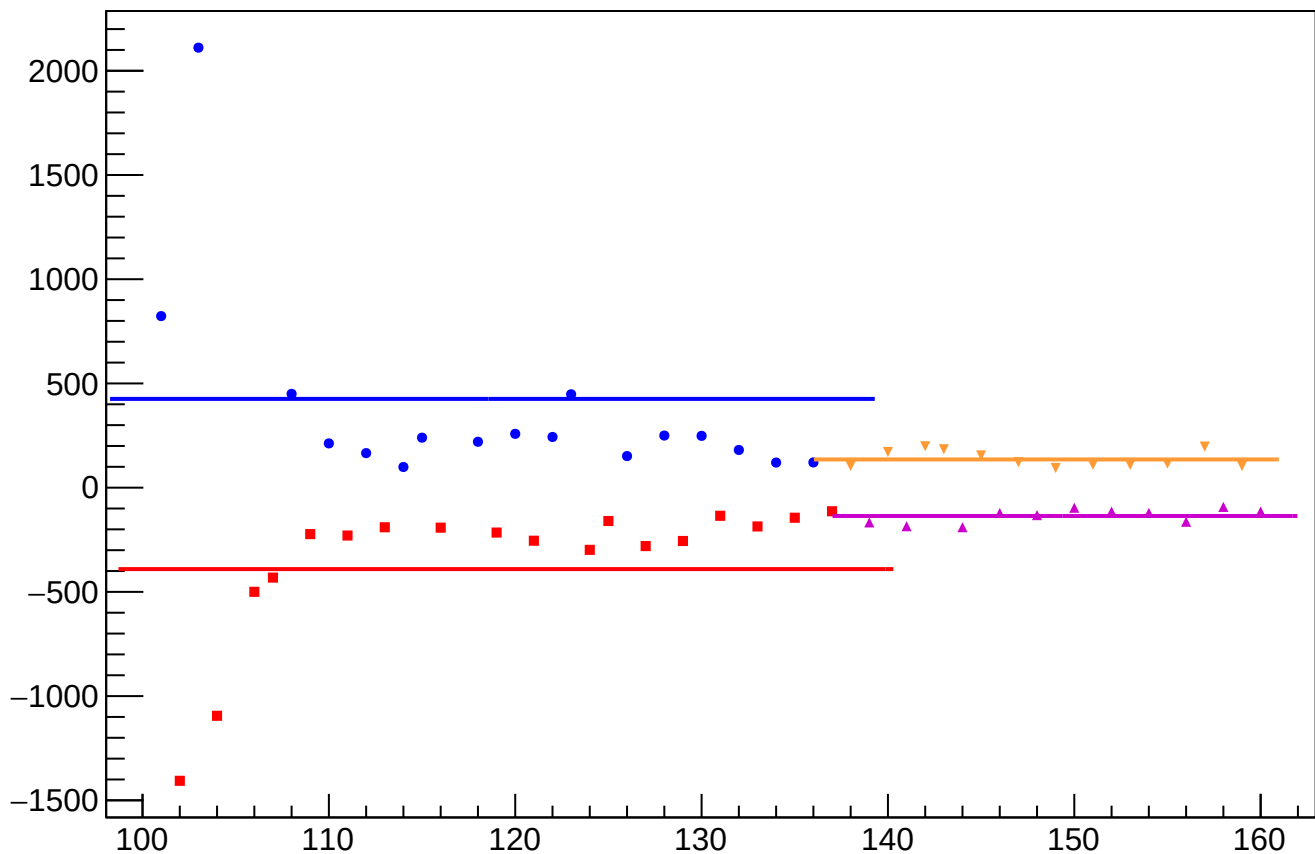
$\chi^2/\text{NDF}$ : 544622124437292502497528454351499034624.0/17

Left In:  $537.163 \pm 0.000$

$\chi^2/\text{NDF}$ : 43957458836517899124048676659035897856.0/10

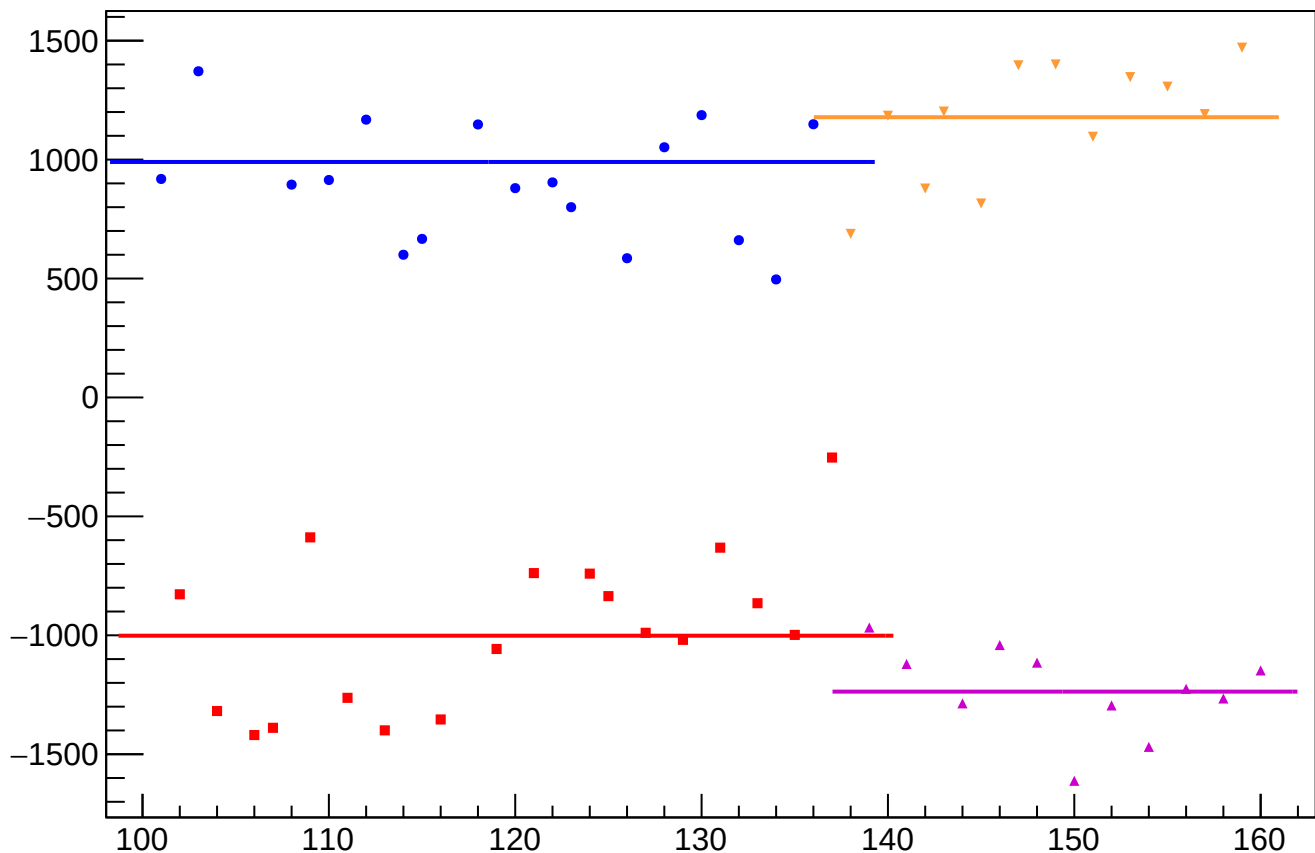
All:  $-9.429 \pm 0.000$   $\chi^2/\text{NDF}$ : 1847867869270

dit\_usr\_coil6\_err\_mean vs Slug, Sign Corrected



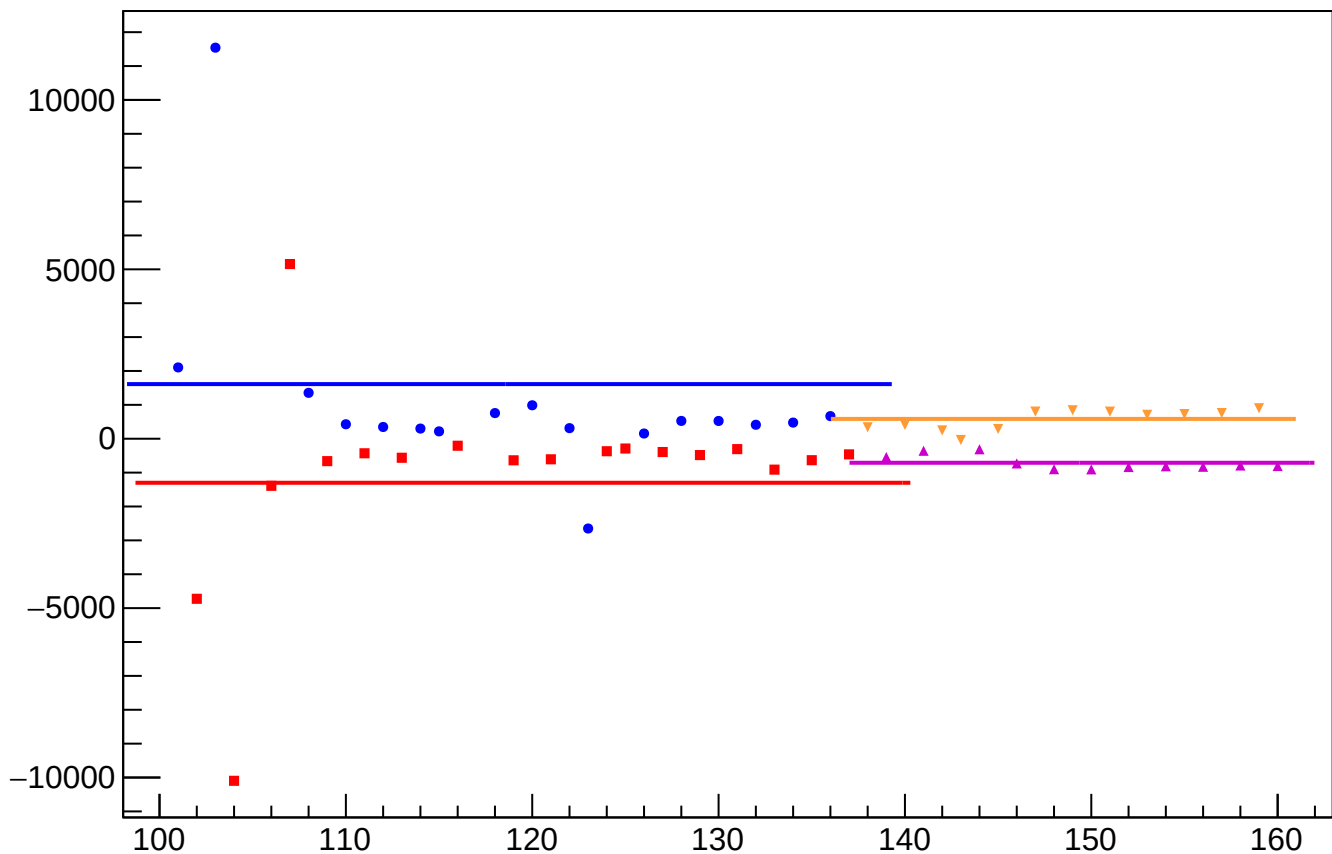
Right In: 425.847+/-0.000  $\chi^2/\text{NDF}$ : 207036344088227618256858466697210757120.0/16  
 Left Out: 135.302+/-0.000  $\chi^2/\text{NDF}$ : 1213972117724638790045949459626459136.0/11  
 Right Out: -390.709+/-0.000  $\chi^2/\text{NDF}$ : 105177402148385851360915440950786916352.0/17  
 Left In: -135.877+/-0.000  $\chi^2/\text{NDF}$ : 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

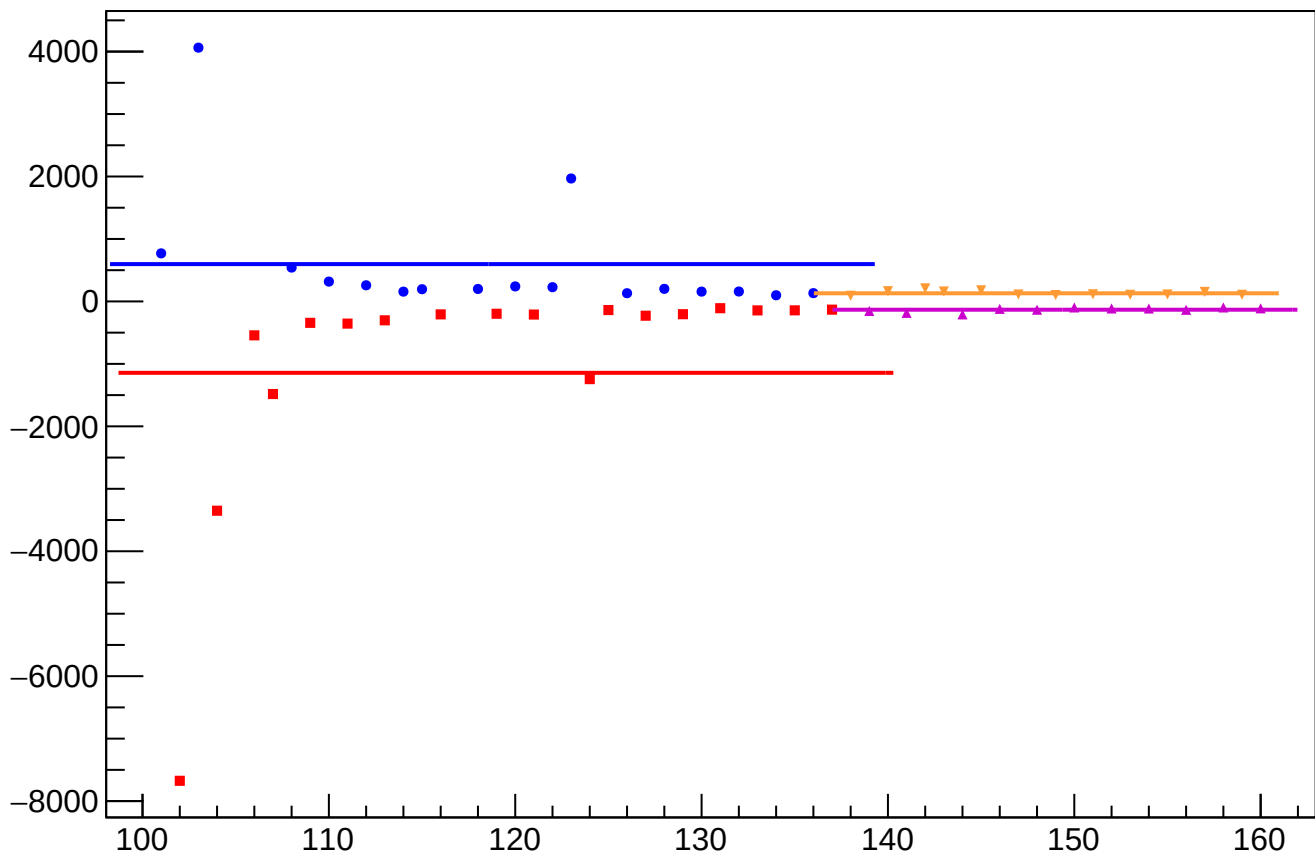
dit\_atl1\_coil6\_mean vs Slug, Sign Corrected



Left: -70.535 +/- 0.000  $\chi^2/NDF$ : 8814166547706213  
 Right In: 1612.346 +/- 0.000  $\chi^2/NDF$ : 6578565632222822389389916952029424517120.0/16  
 Right: 134.667 +/- 0.000  $\chi^2/NDF$ : 160329855718558  
 Left Out: 585.355 +/- 0.000  $\chi^2/NDF$ : 71064130905944539858639816600462557184.0/11  
 In: 280.858 +/- 0.000  $\chi^2/NDF$ : 87624471032682439  
 Right Out: -1299.611 +/- 0.000  $\chi^2/NDF$ : 6468181068576271058681439598083982753792.0/17  
 Out: -244.541 +/- 0.000  $\chi^2/NDF$ : 796121639516906  
 Left In: -709.552 +/- 0.000  $\chi^2/NDF$ : 38324887242823833367835539132322414592.0/10  
 All: 18.401 +/- 0.000  $\chi^2/NDF$ : 1694801829865

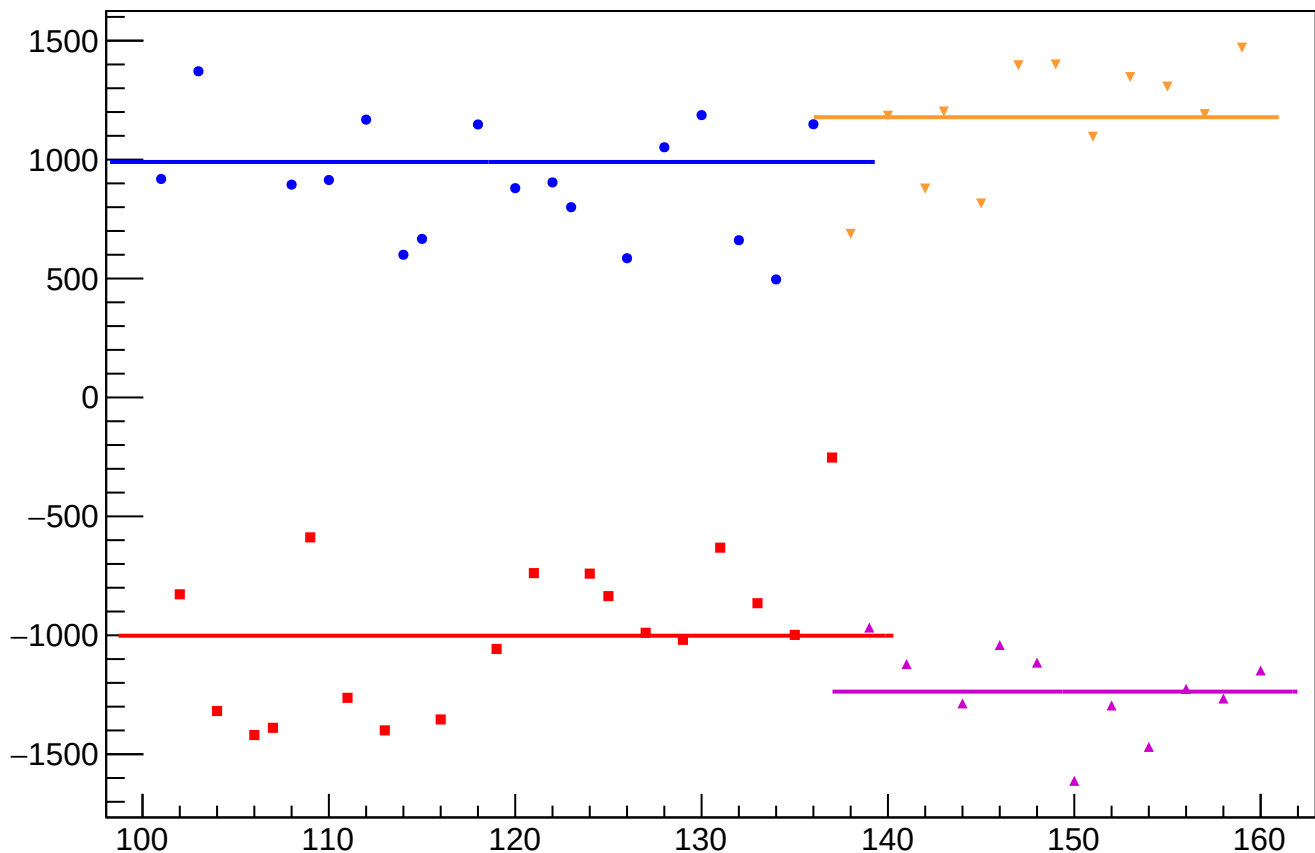


dit\_atl1\_coil6\_err\_mean vs Slug, Sign Corrected



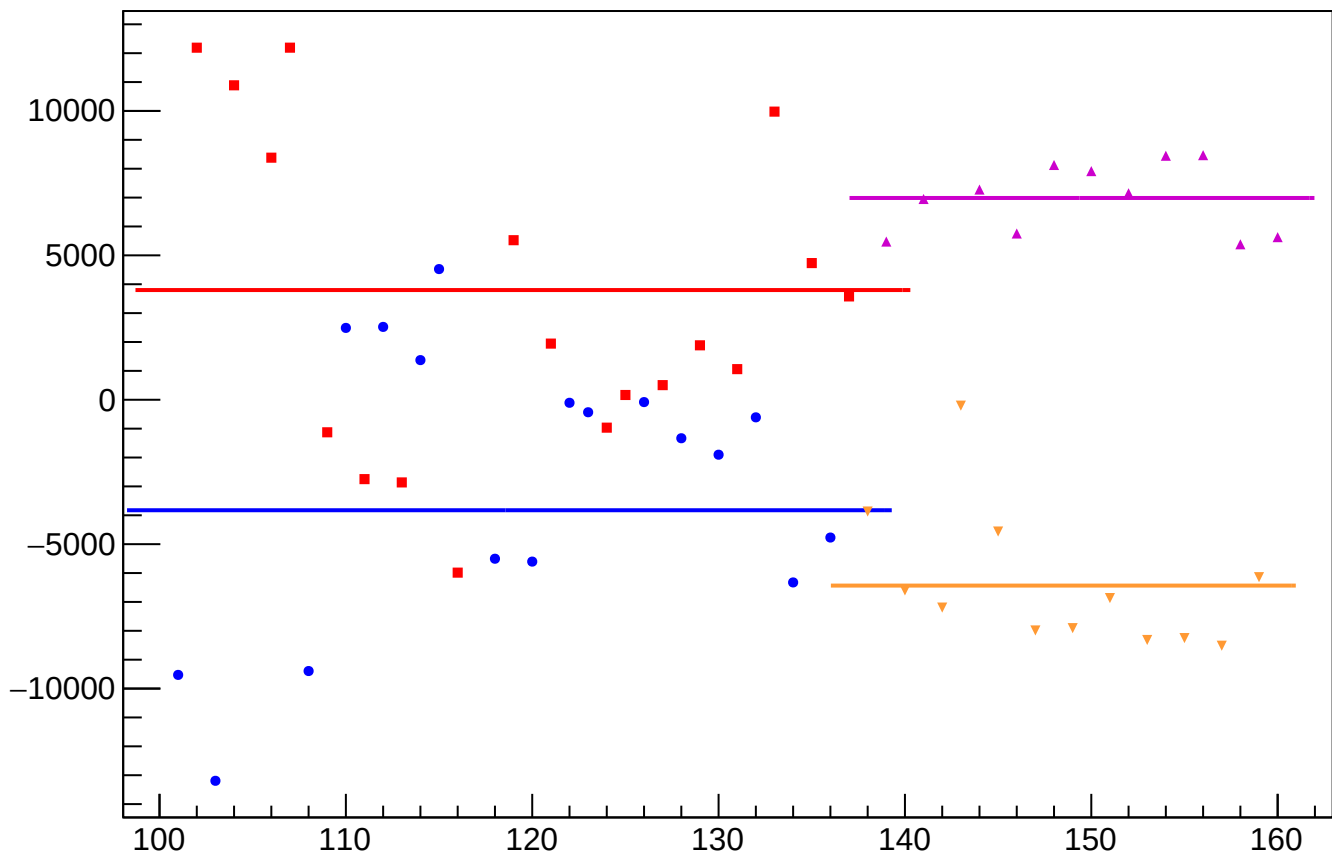
Left: -3.028 +/- 0.000  $\chi^2/\text{NDF}$ : 33889688901035256  
 Right In: 597.382 +/- 0.000  $\chi^2/\text{NDF}$ : 808468639420281882930484113186400239616.0/16  
 Right: -285.870 +/- 0.000  $\chi^2/\text{NDF}$ : 50680370930109  
 Left Out: 130.051 +/- 0.000  $\chi^2/\text{NDF}$ : 1012152339815276325722639516246736896.0/11  
 In: 178.727 +/- 0.000  $\chi^2/\text{NDF}$ : 10216812314521010  
 Right Out: -1143.180 +/- 0.000  $\chi^2/\text{NDF}$ : 3192644561132334907368616853810301632512.0/17  
 Out: -430.516 +/- 0.000  $\chi^2/\text{NDF}$ : 384243763788041  
 Left In: -132.683 +/- 0.000  $\chi^2/\text{NDF}$ : 1095069941425855295085560512768901120.0/10  
 All: -125.613 +/- 0.000  $\chi^2/\text{NDF}$ : 51657930669

dit\_atl1\_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\_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

$\chi^2/\text{NDF}$ : 15445294605440071214640081166471362772992.0/16

$\chi^2/\text{NDF}$ : 4694104378818420456134132299517770334208.0/11

$\chi^2/\text{NDF}$ : 21131316959829635023813459777790997954560.0/17

$\chi^2/\text{NDF}$ : 1235548818628101724226564744951120265216.0/10

Left: 363.678 +/- 0.000  $\chi^2/\text{NDF}$ : 8885863810237189

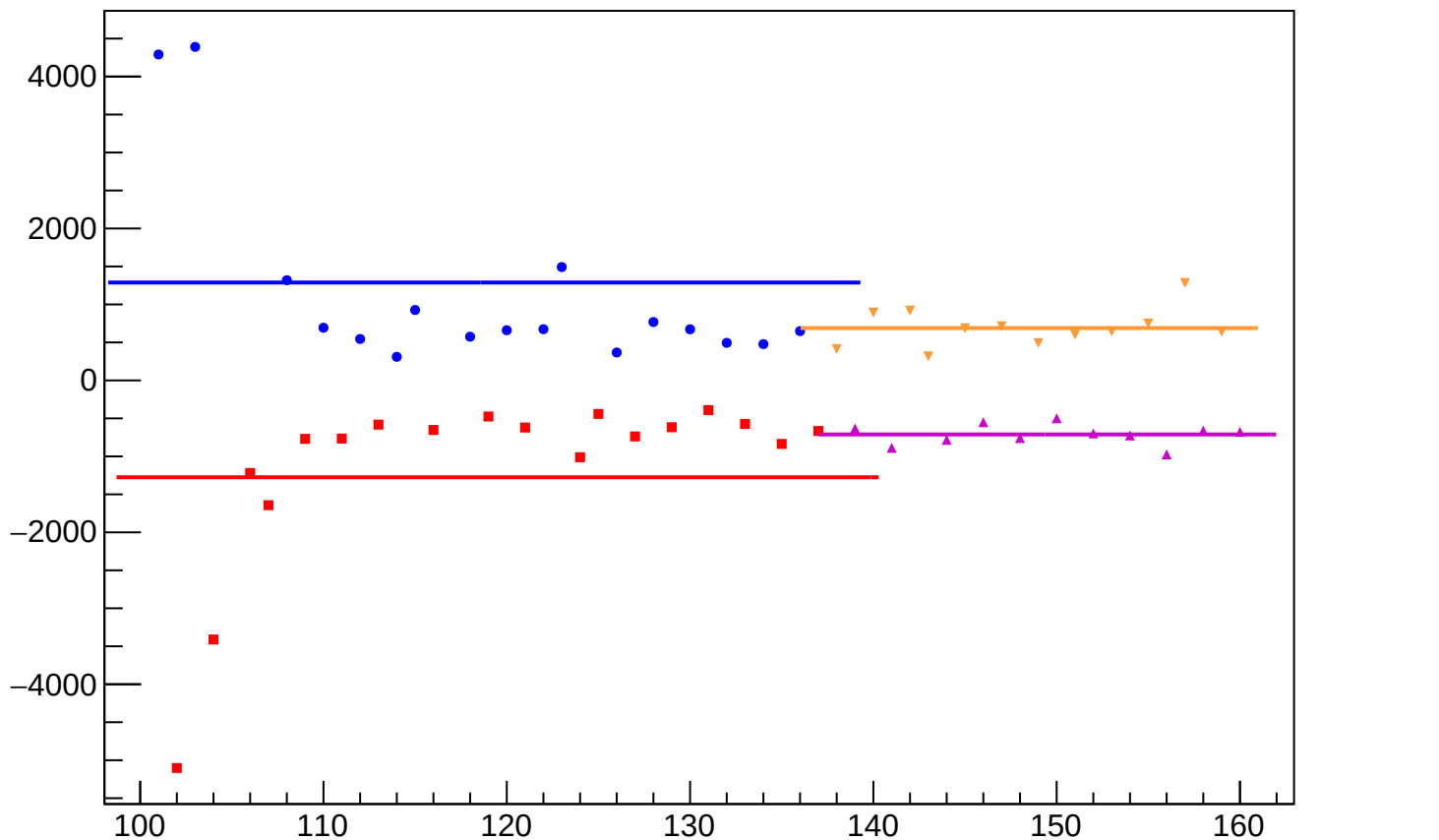
Right: 43.382 +/- 0.000  $\chi^2/\text{NDF}$ : 5704630071660789

In: 2374.723 +/- 0.000  $\chi^2/\text{NDF}$ : 6320353446593987

Out: -1928.973 +/- 0.000  $\chi^2/\text{NDF}$ : 67729726367742

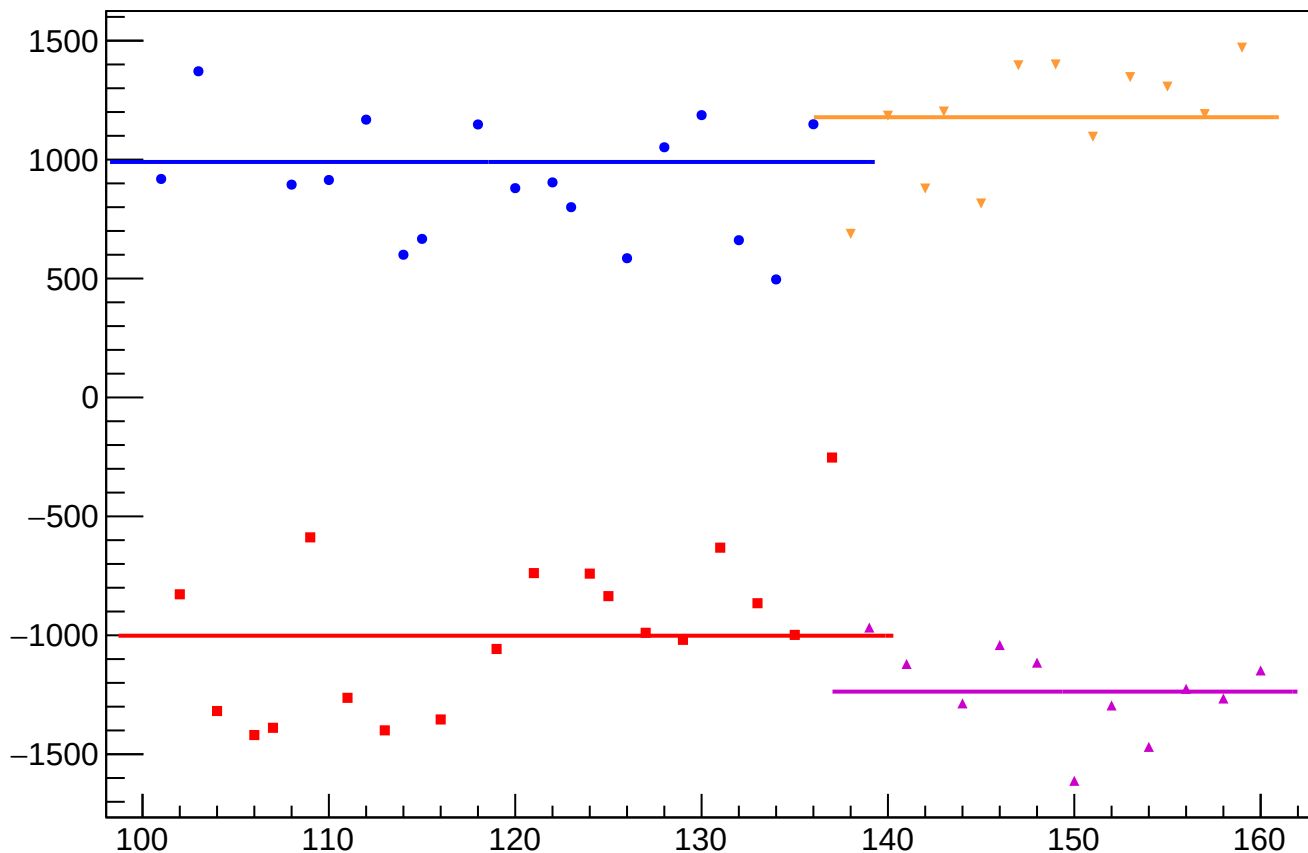
All: 224.860 +/- 0.000  $\chi^2/\text{NDF}$ : 145986839293

dit\_atl2\_coil6\_err\_mean vs Slug, Sign Corrected



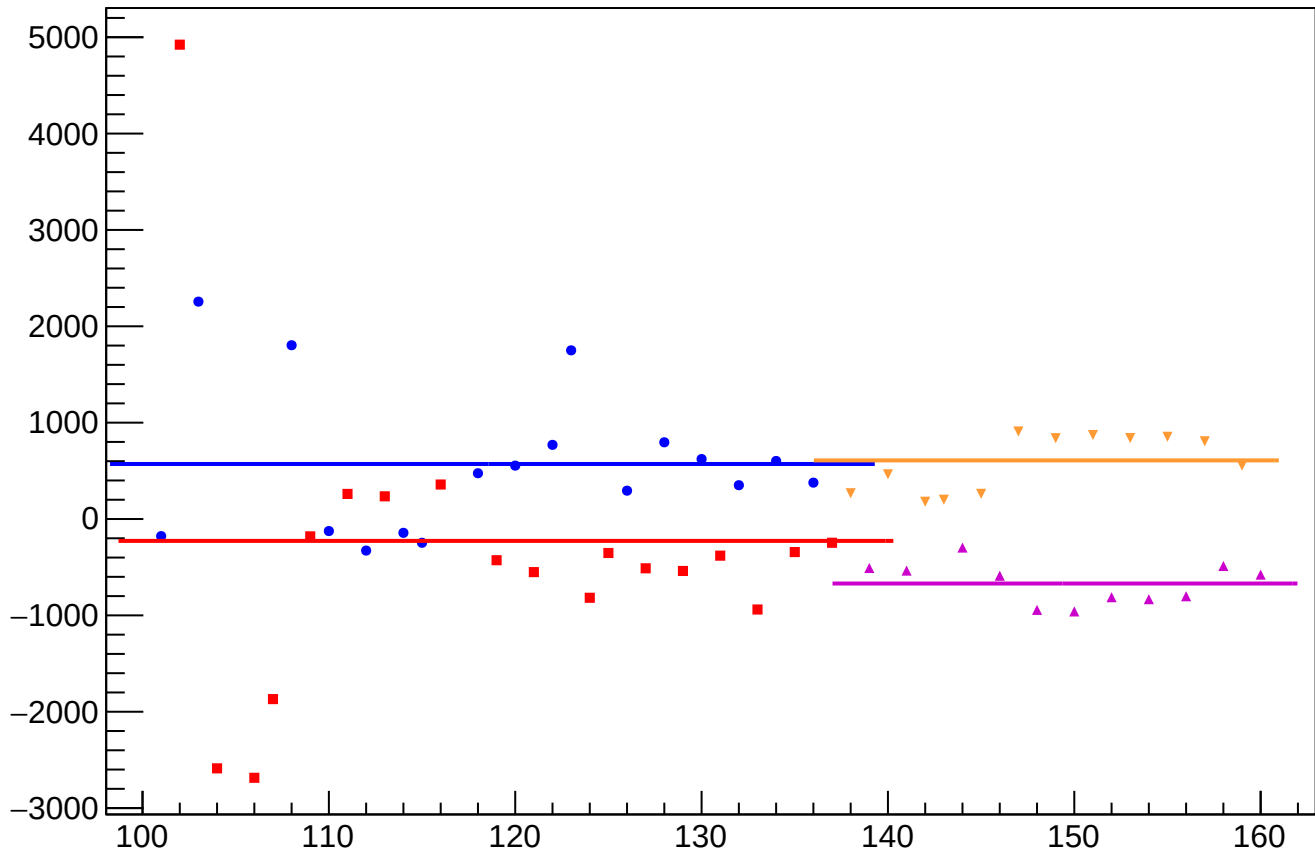
Right In: 1288.972+/-0.000  $\chi^2/\text{NDF}$ : 1352910763882575479104094227028785496064.0/16  
 Left Out: 689.077+/-0.000  $\chi^2/\text{NDF}$ : 51672387047118863079417001056116146176.0/11  
 Right Out: -1274.734+/-0.000  $\chi^2/\text{NDF}$ : 1316265489507064730168544372361657319424.0/17  
 Left 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

Left: -38.734+/-0.000  $\chi^2/\text{NDF}$ : 8600583756036043

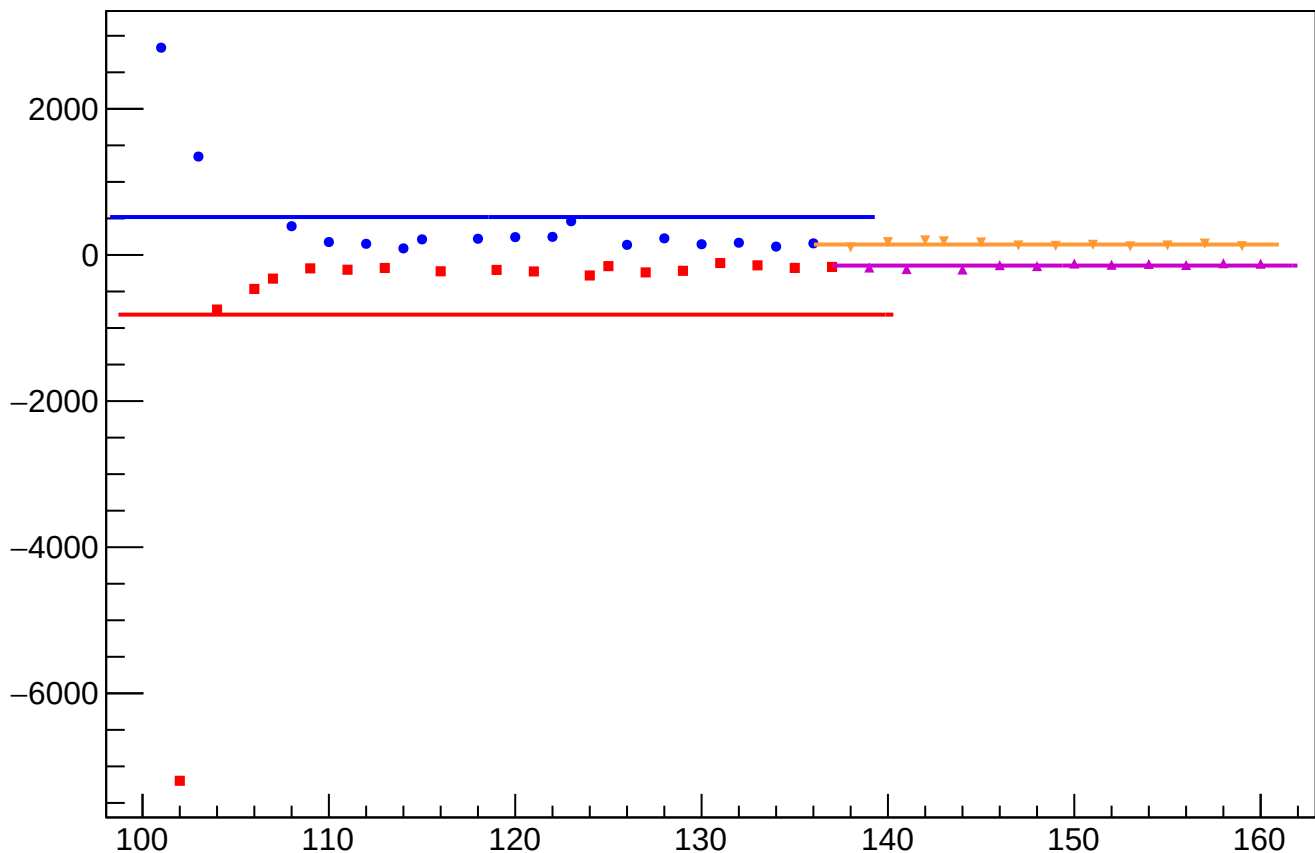
Right: 166.094+/-0.000  $\chi^2/\text{NDF}$ : 275147675740280

In: -140.159+/-0.000  $\chi^2/\text{NDF}$ : 1000305497332058

Out: 240.590+/-0.000  $\chi^2/\text{NDF}$ : 2526899420558566

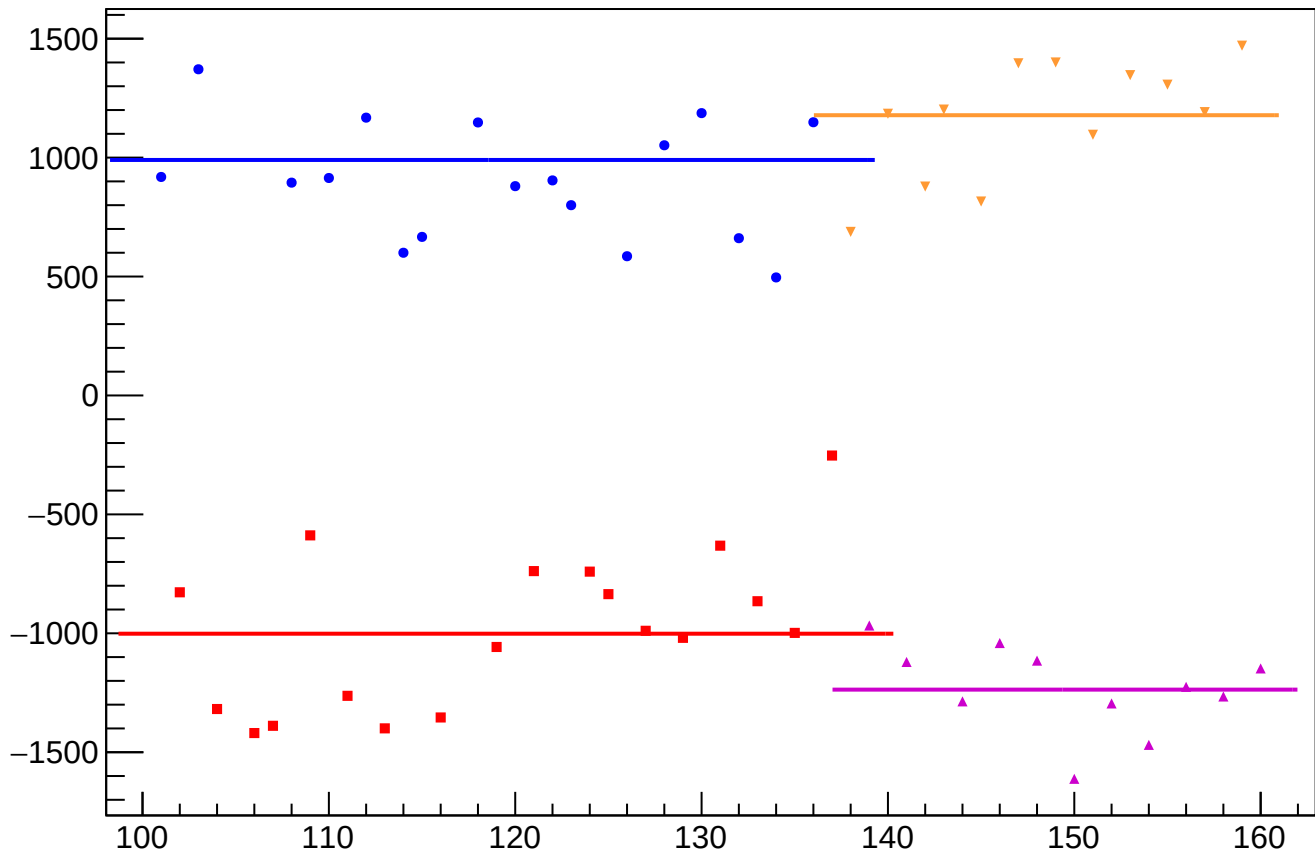
All: 50.040+/-0.000  $\chi^2/\text{NDF}$ : 3645028648995

dit\_atr1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 519.063+/-0.000  $\chi^2/\text{NDF}$ : 420187131793740379632134790837132328960.0/16  
 Left Out: 143.116+/-0.000  $\chi^2/\text{NDF}$ : 711290210266154833943358309092294656.0/11  
 Right Out: -816.445+/-0.000  $\chi^2/\text{NDF}$ : 2586841774338234136799977462346624794624.0/17  
 Left In: -145.264+/-0.000  $\chi^2/\text{NDF}$ : 787451488433589165323793528208228352.0/10  
 All: -70.430+/-0.000  $\chi^2/\text{NDF}$ : 369429588208

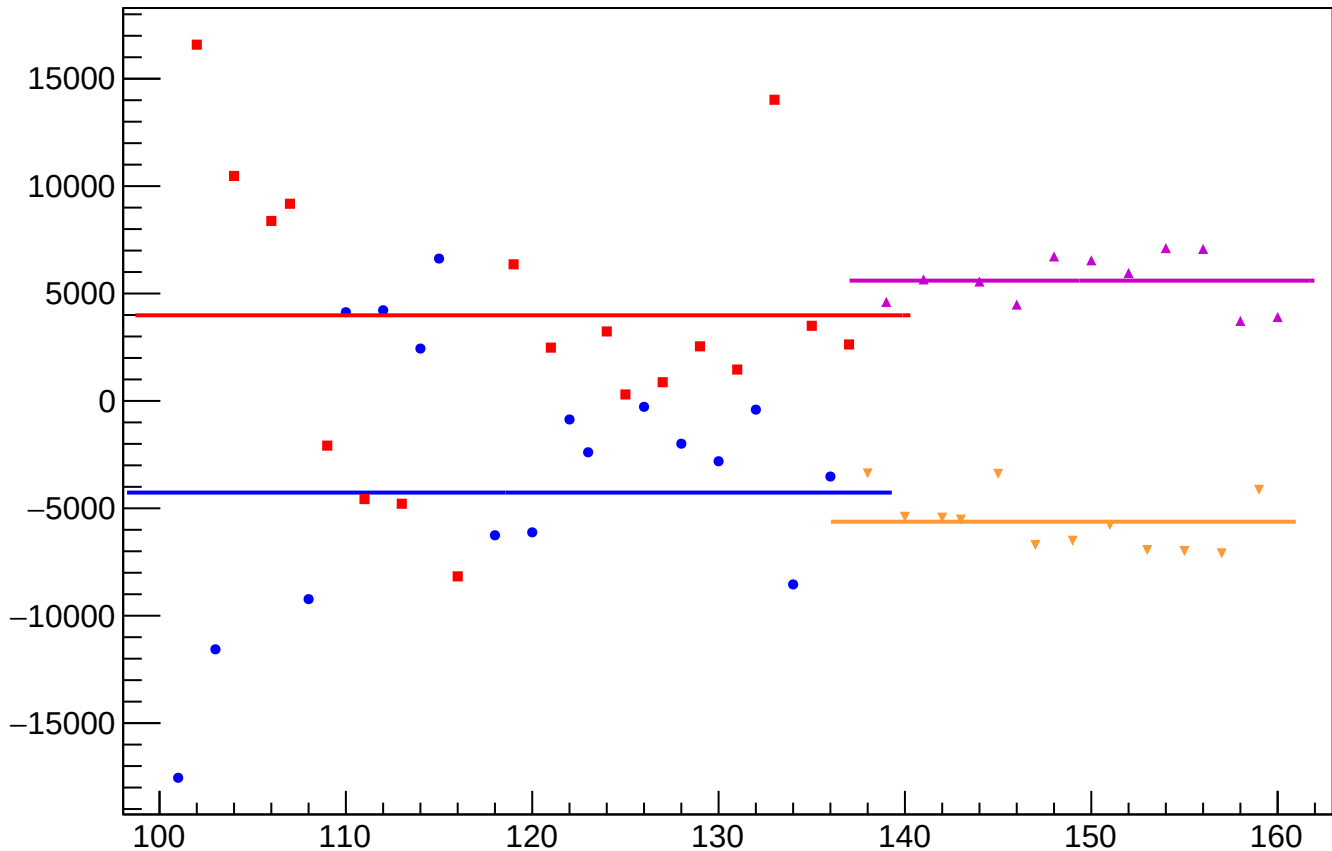
dit\_atr1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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  $\chi^2/\text{NDF}$ : 5216770532463382200265414592767721472.0/11  
 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

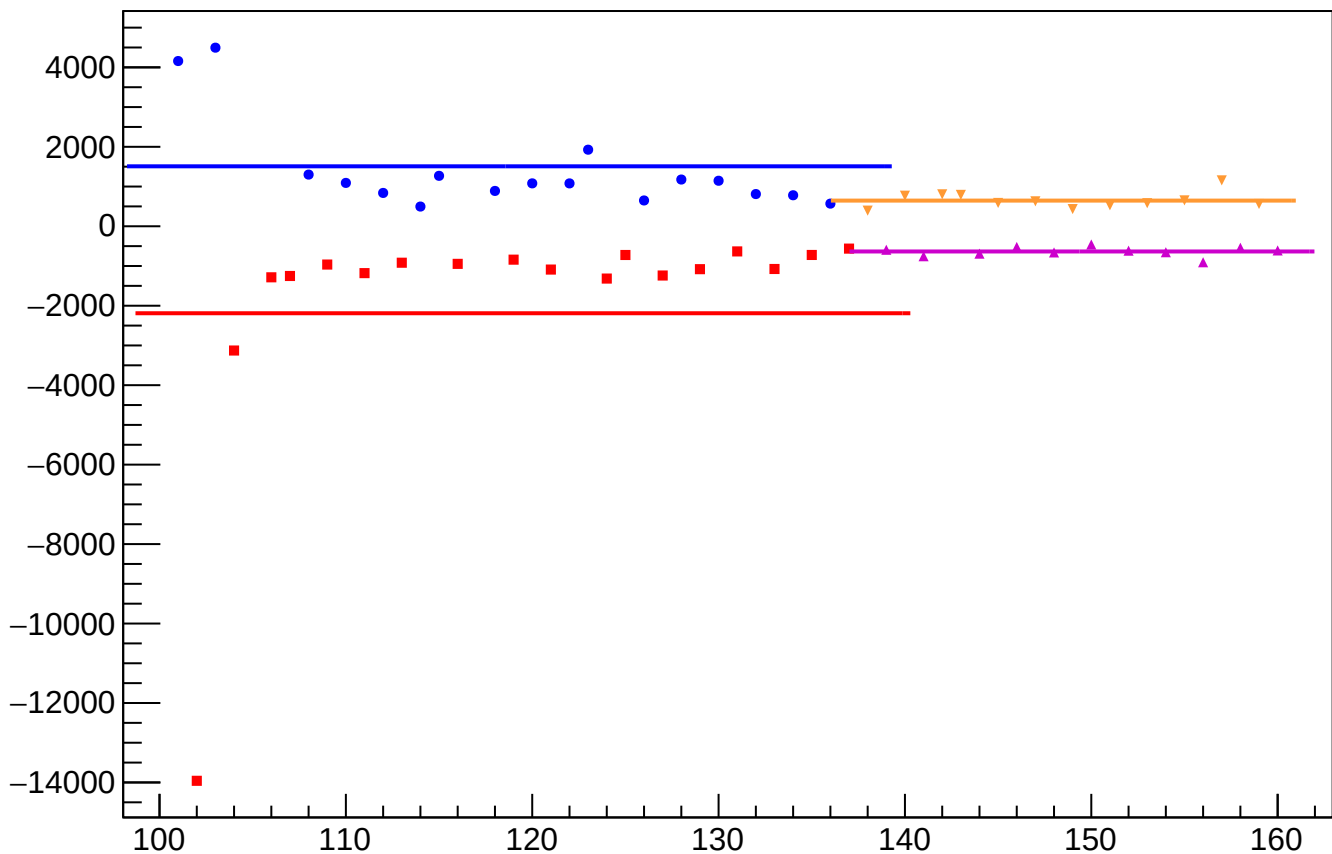
$\chi^2/\text{NDF}$ : 31378292211366162940134938718336985333760.0/17

Left In: 5600.969 +/- 0.000

$\chi^2/\text{NDF}$ : 1284033803057879693677598537255558840320.0/10

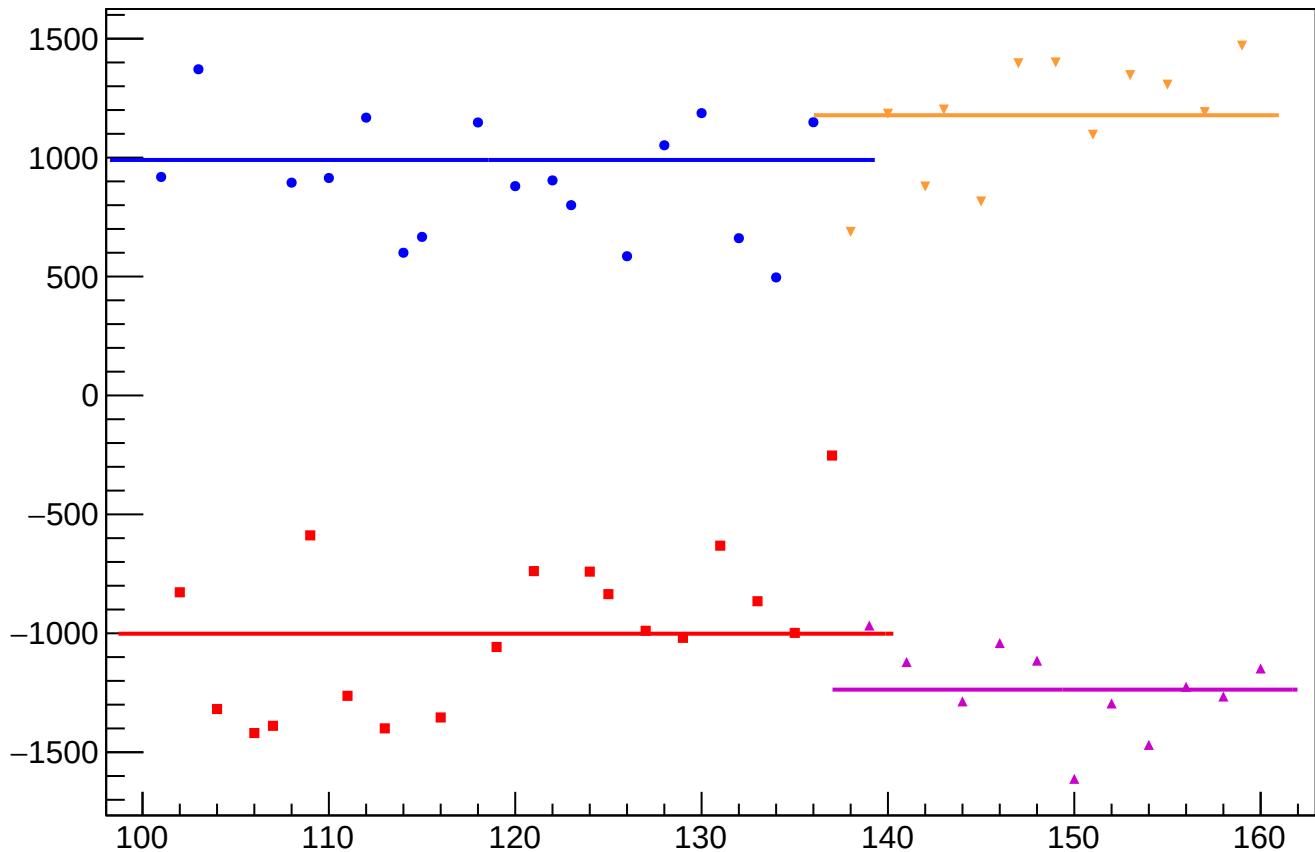
All: 0.902 +/- 0.000  $\chi^2/\text{NDF}$ : 14165334325845

# dit\_atr2\_coil6\_err\_mean vs Slug, Sign Corrected



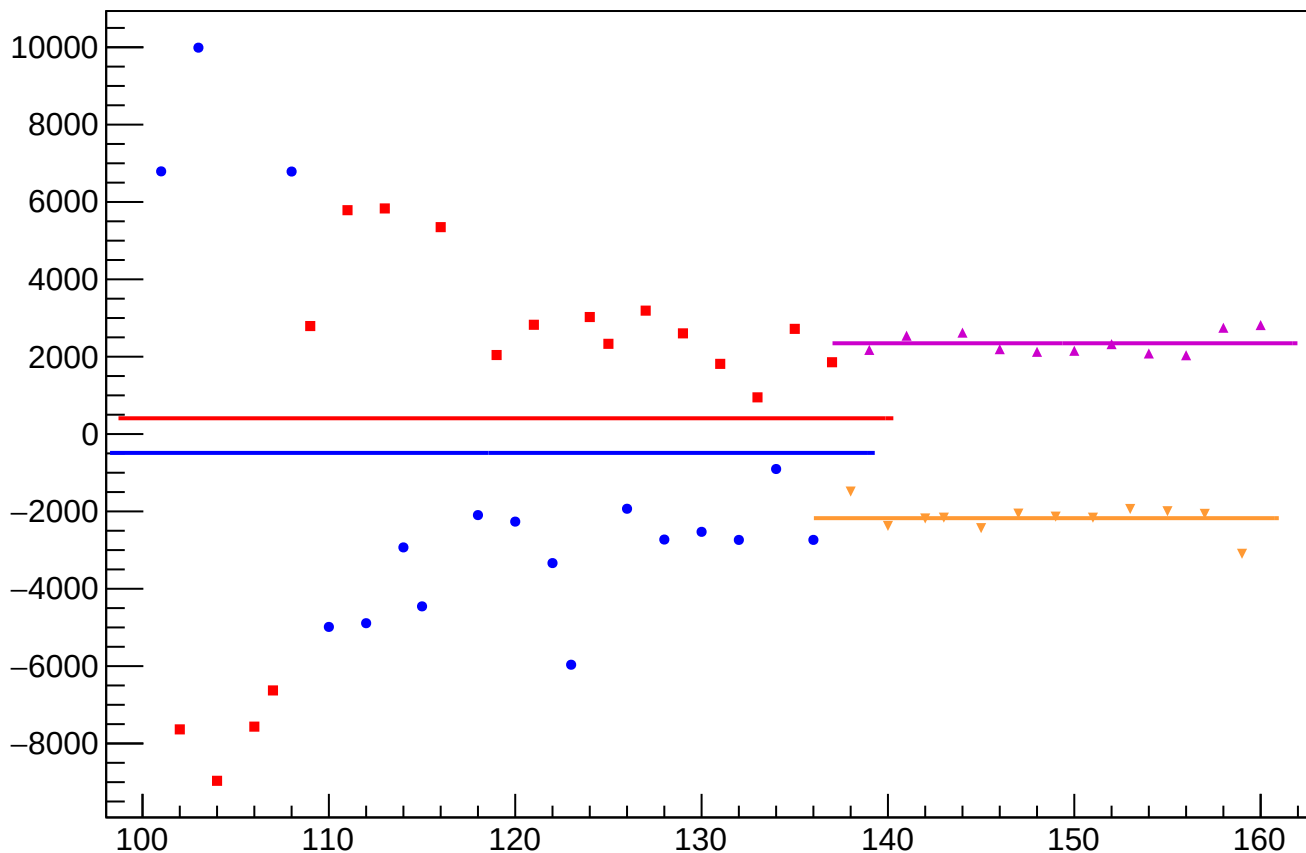
Right In: 1509.121+/-0.000  $\chi^2/\text{NDF}$ : 1169972089698319936649693761541425332224.0/16  
 Left Out: 646.174+/-0.000  $\chi^2/\text{NDF}$ : 34105781677425395538056373827956375552.0/11  
 Right Out: -2189.301+/-0.000  $\chi^2/\text{NDF}$ : 8986539063289018670432989988372162281472.0/17  
 Left 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



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  $\chi^2/\text{NDF}$ : 5216770532463382200265414592767721472.0/11  
 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\_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

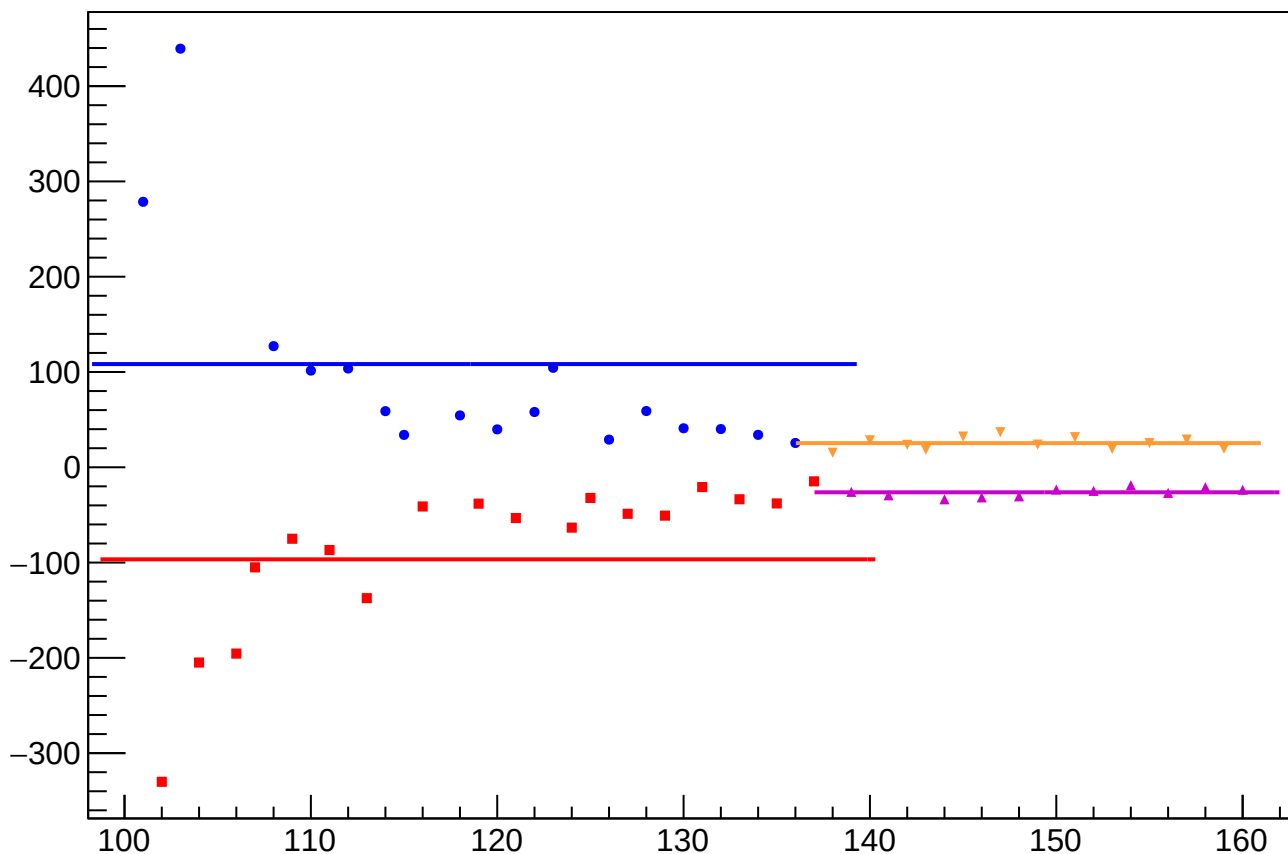
$\chi^2/\text{NDF}$ : 17046160329483633481850056075702270164992.0/17

Left In: 2346.925+/-0.000

$\chi^2/\text{NDF}$ : 6716906327196763069010620899655680.0/10

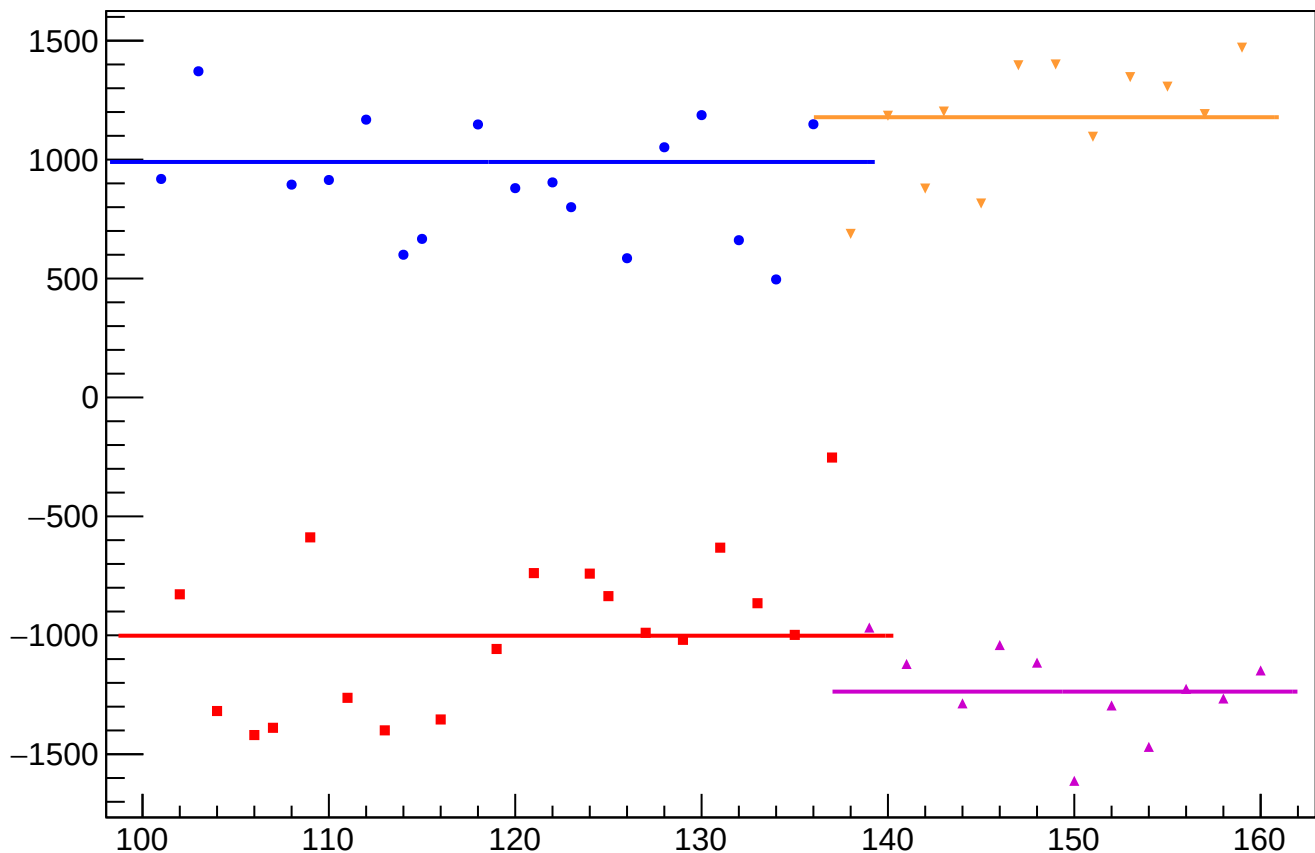
All: 51.090+/-0.000  $\chi^2/\text{NDF}$ : 4242647048675

# dit\_sam1\_coil6\_err\_mean vs Slug, Sign Corrected



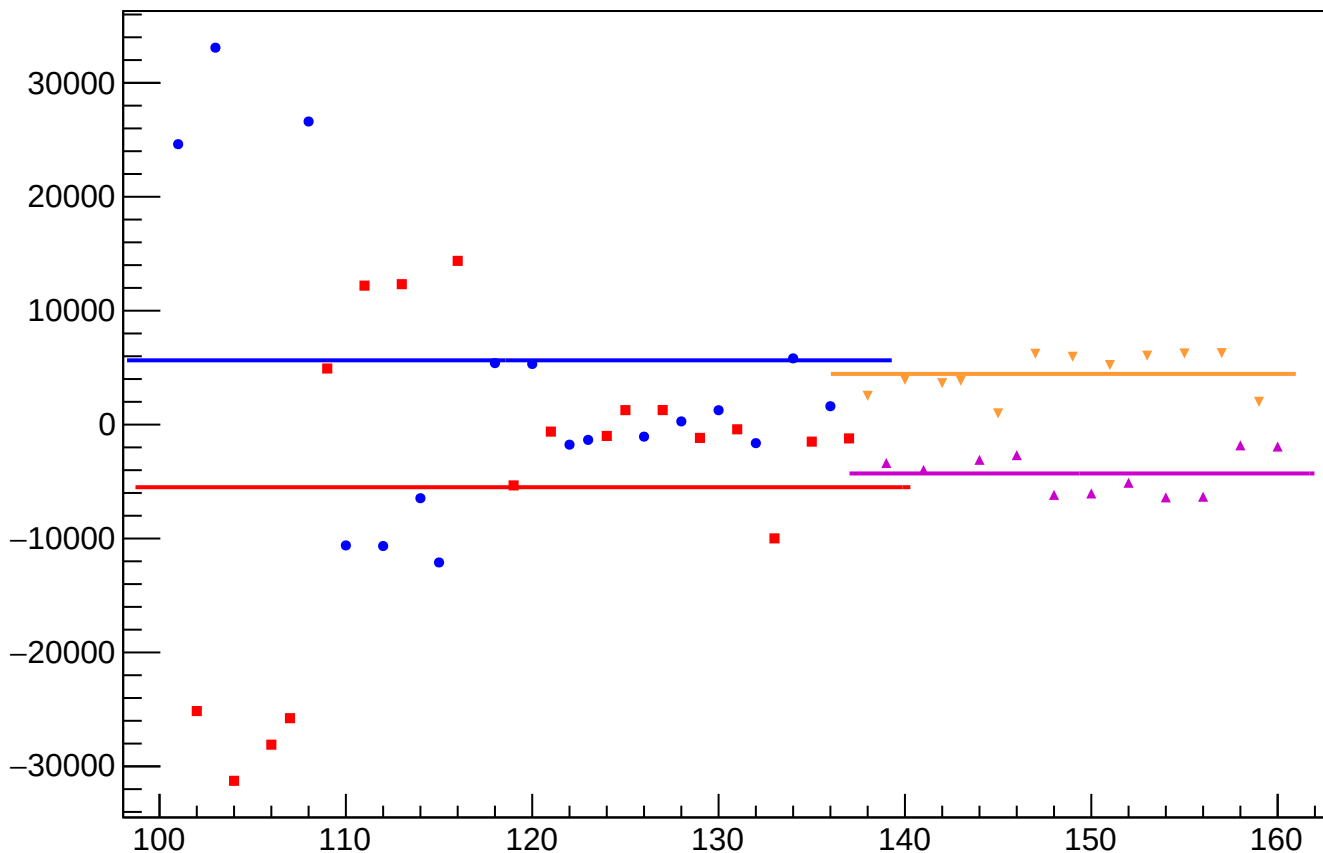
Right In: 108.310 $\pm$ 0.000  $\chi^2$ /NDF: 10240592139421231918957200369451532288.0/16  
 Left Out: 25.343 $\pm$ 0.000  $\chi^2$ /NDF: 36110419999442203641332872035434496.0/11  
 Right Out: -96.612 $\pm$ 0.000  $\chi^2$ /NDF: 5525873832888071130304914389362278400.0/17  
 Left In: -26.267 $\pm$ 0.000  $\chi^2$ /NDF: 18381454665021153689982878819024896.0/10  
 All: 1.421 $\pm$ 0.000  $\chi^2$ /NDF: 31856999300877

dit\_sam1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



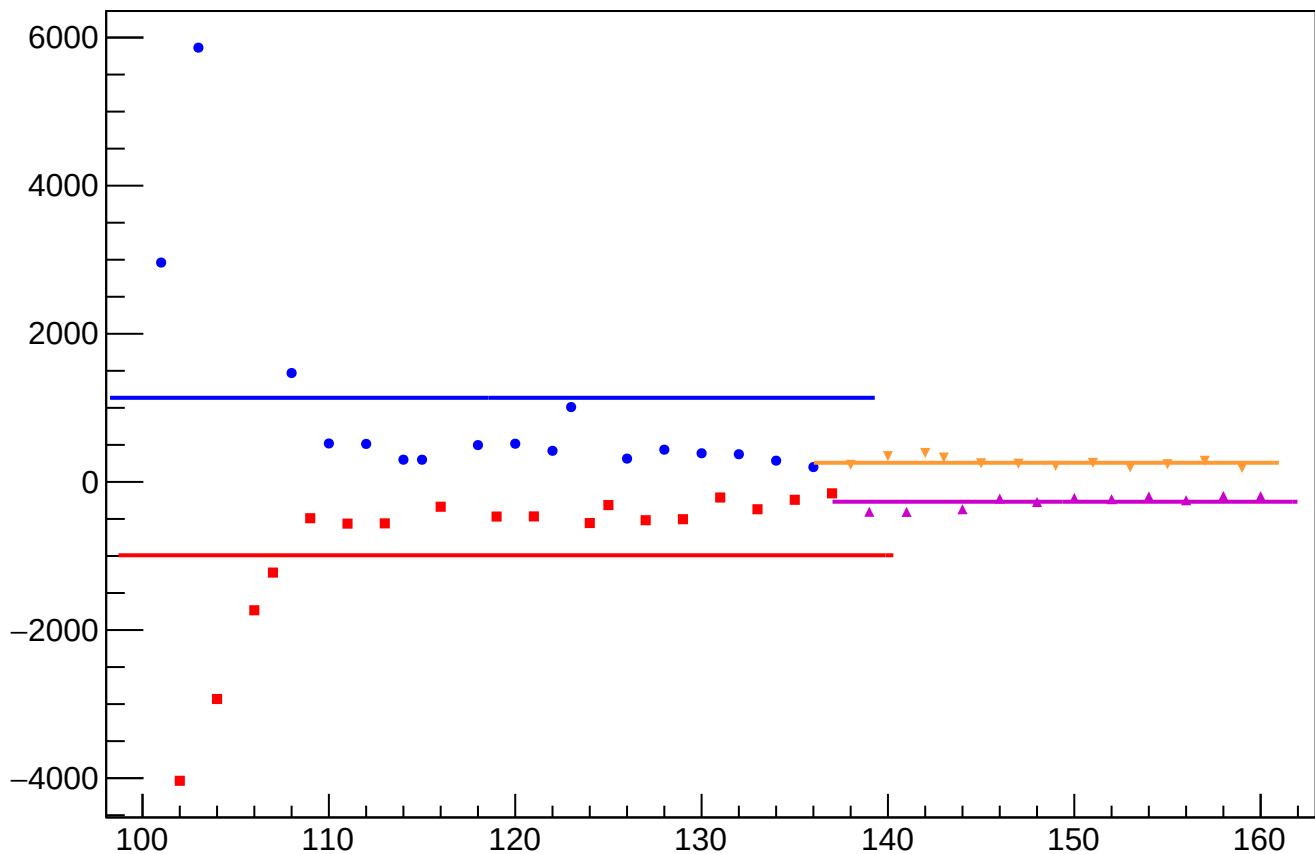
Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 1178.253+/-0.000  $\chi^2/\text{NDF}$ : 52167705532463382200265414592767721472.0/11  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -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

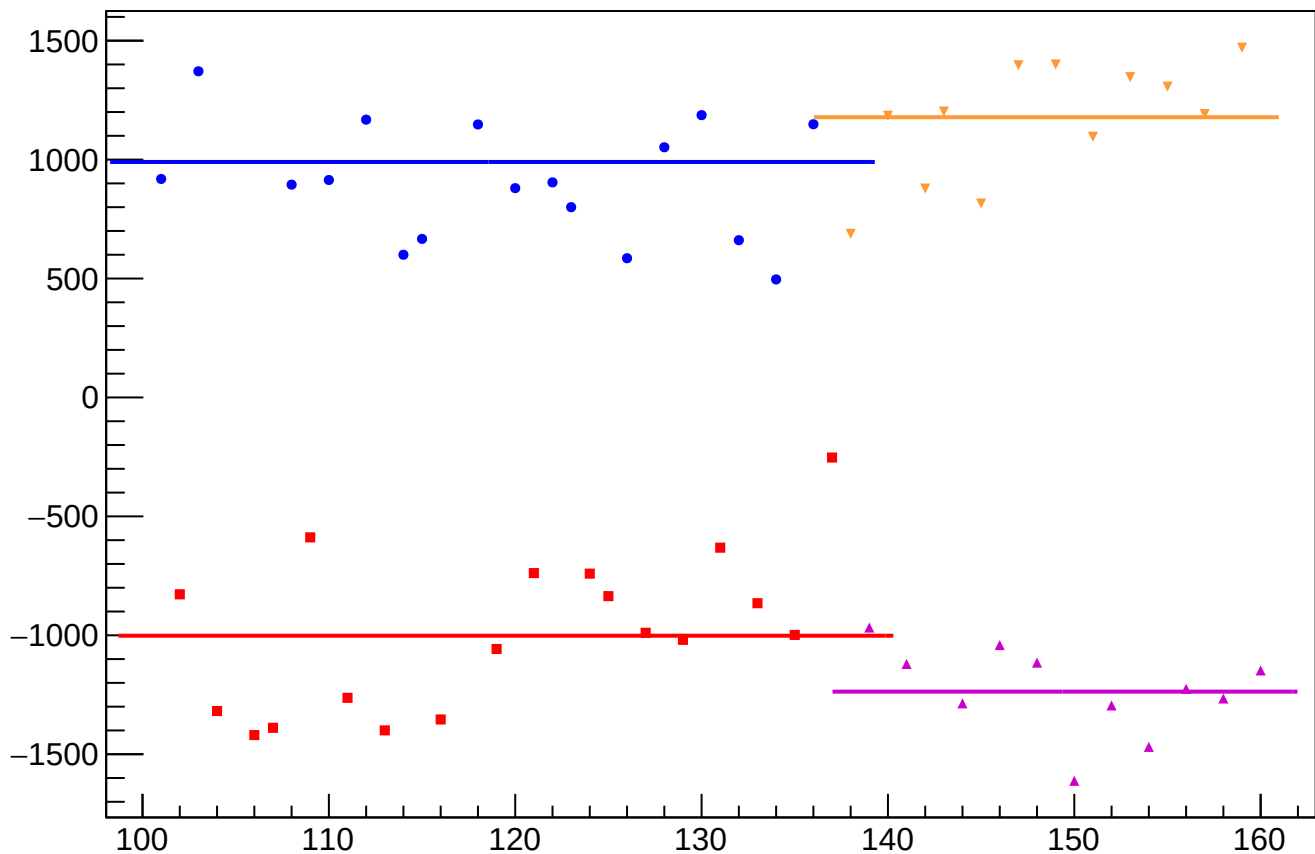
dit\_sam2\_coil6\_err\_mean vs Slug, Sign Corrected



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

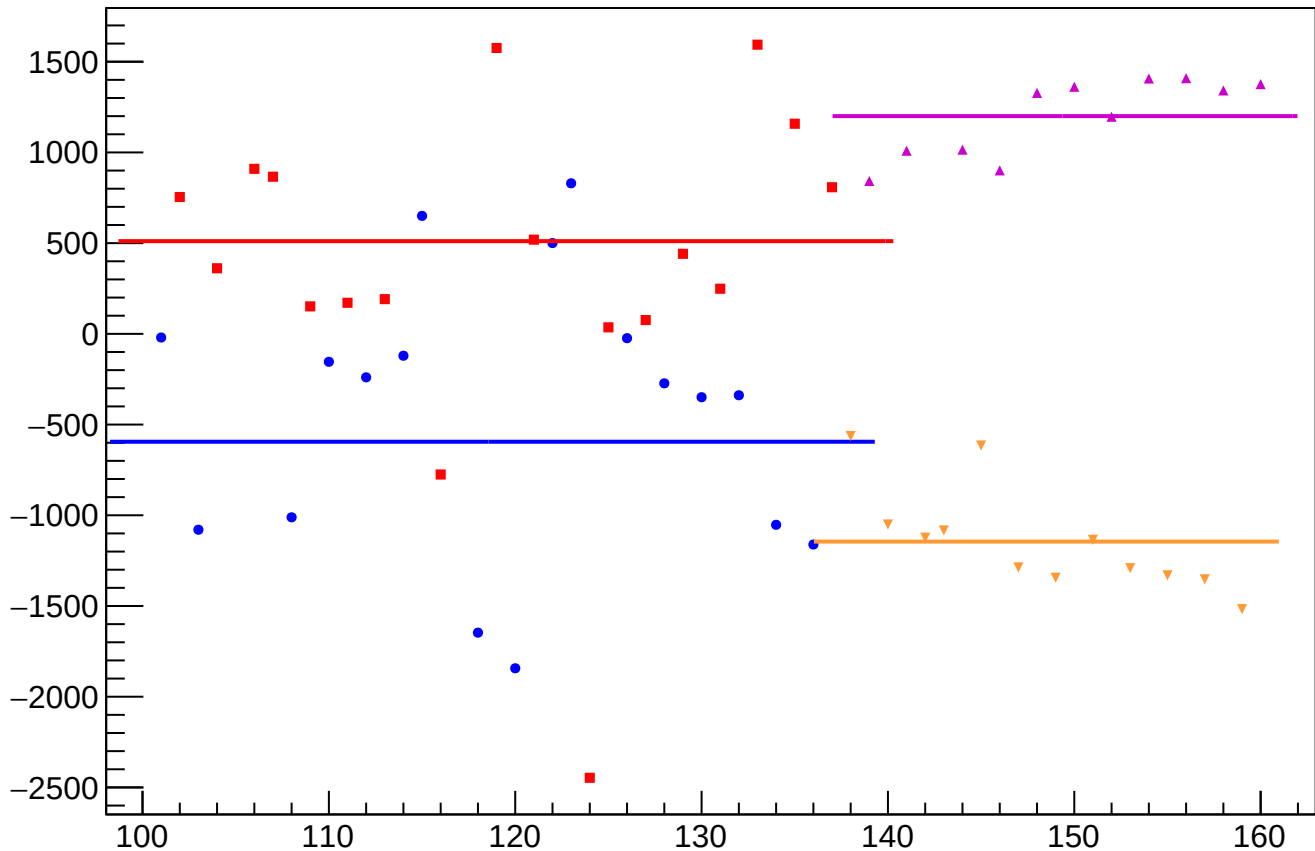


dit\_sam2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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\_sam3\_coil6\_mean vs Slug, Sign Corrected



Right In: -594.642+/-0.000

Left Out: -1145.023+/-0.000

Right Out: 510.991+/-0.000

Left In: 1200.159+/-0.000

$\chi^2/\text{NDF}$ : 301185427986157798818990027839559958528.0/16

$\chi^2/\text{NDF}$ : 73058158331350430415583816889325846528.0/11

$\chi^2/\text{NDF}$ : 345692362052681149269006983787007967232.0/17

$\chi^2/\text{NDF}$ : 39206754972923098015710381582583857152.0/10

Left: 42.846+/-0.000  $\chi^2/\text{NDF}$ : 26445287625568971

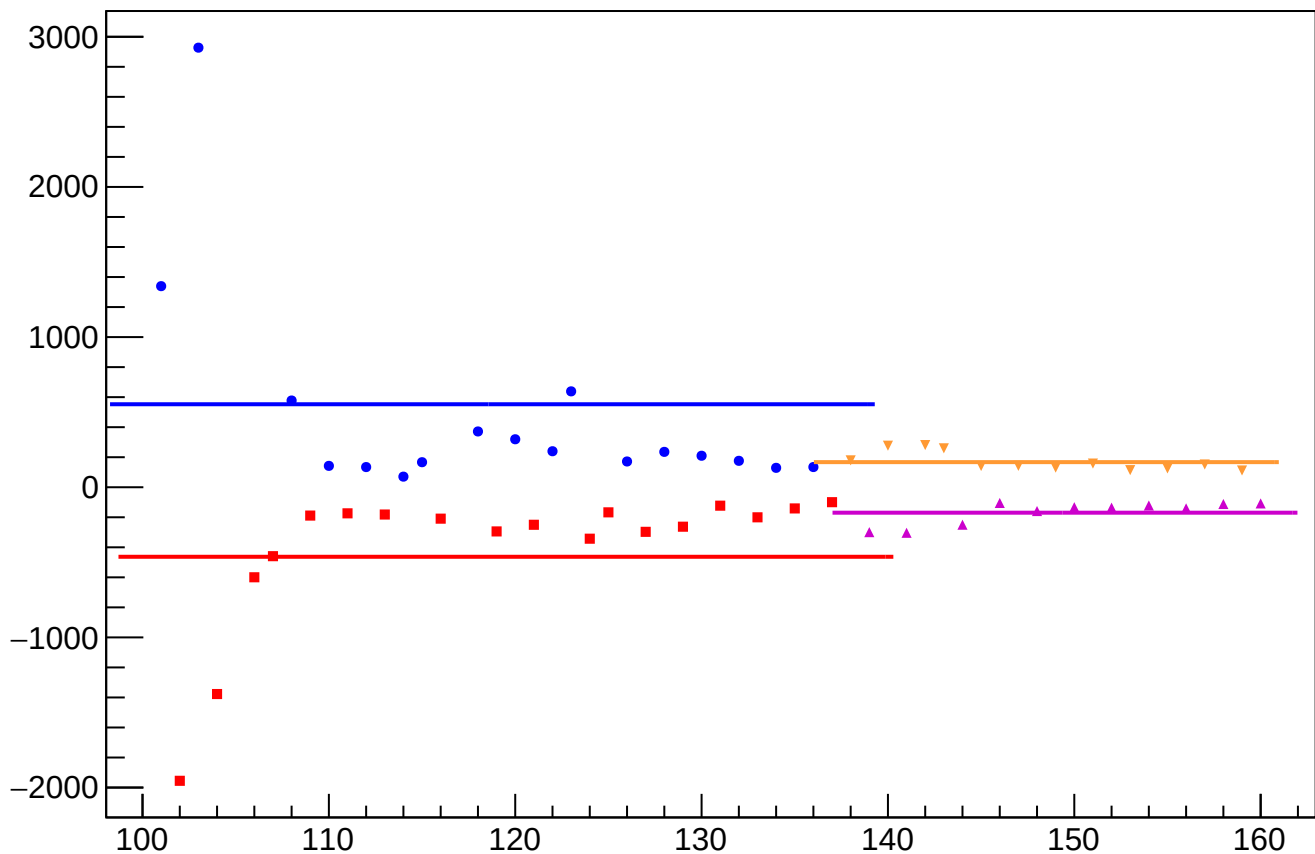
Right: -33.586+/-0.000  $\chi^2/\text{NDF}$ : 107738109865378

In: 434.583+/-0.000  $\chi^2/\text{NDF}$ : 1622386814203445

Out: -415.928+/-0.000  $\chi^2/\text{NDF}$ : 151626886122886

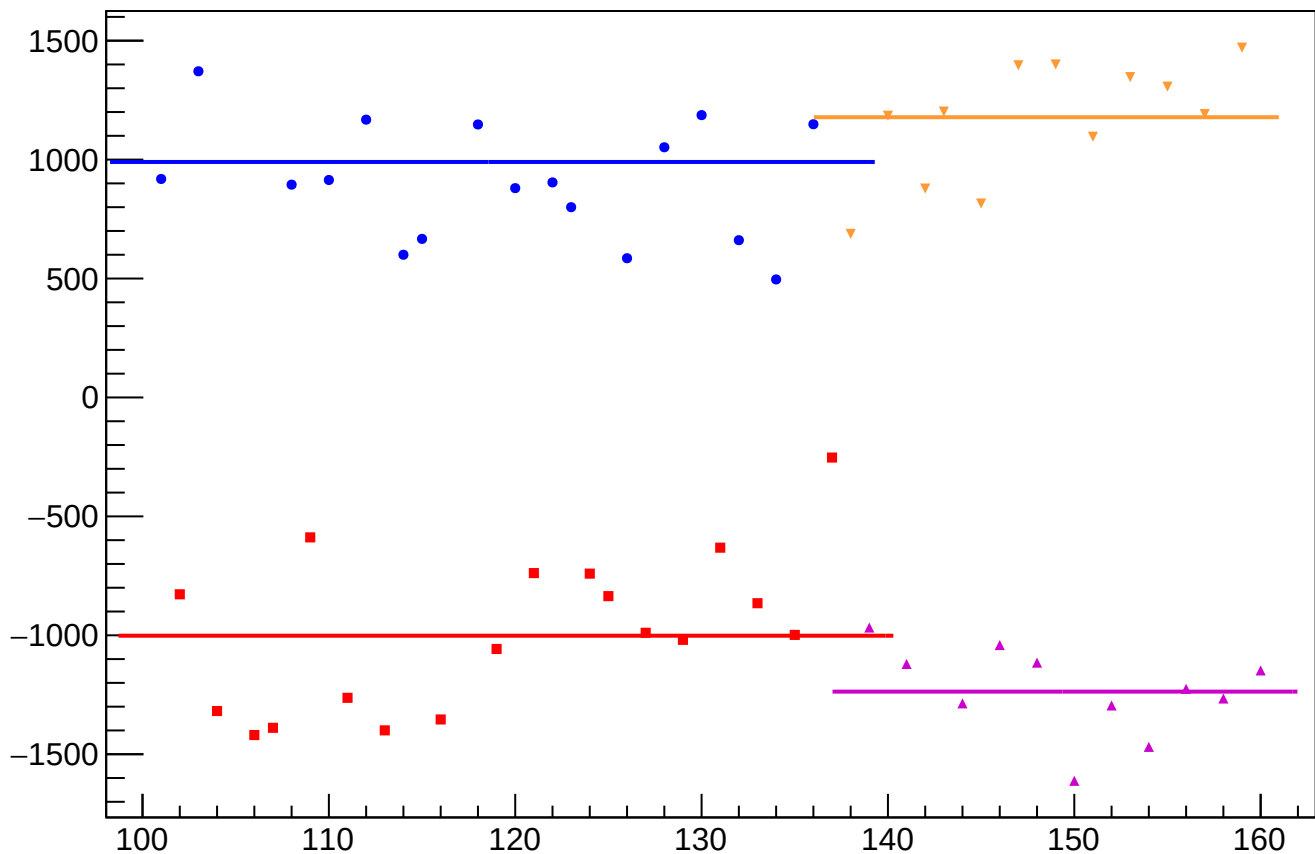
All: 9.720+/-0.000  $\chi^2/\text{NDF}$ : 37265736516506

dit\_sam3\_coil6\_err\_mean vs Slug, Sign Corrected



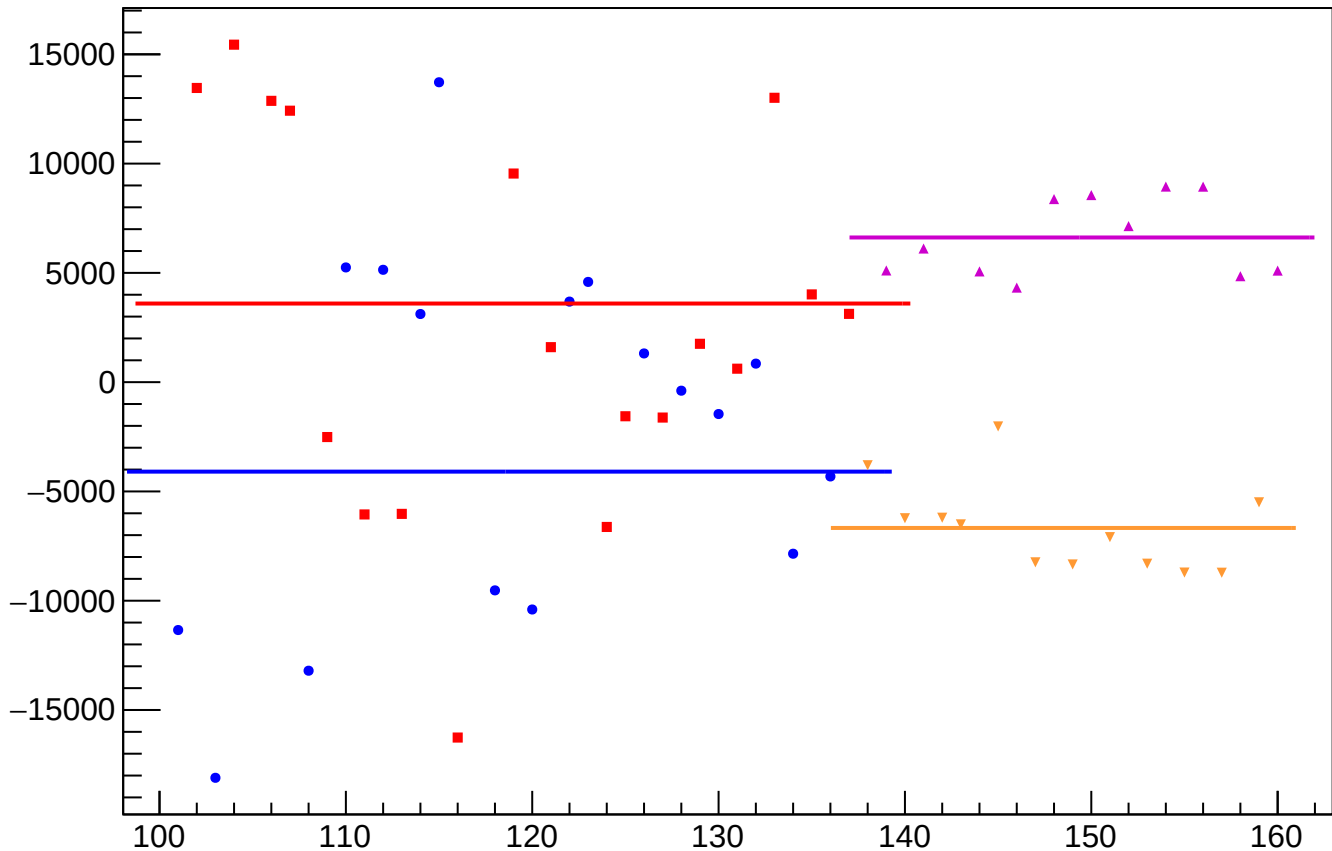
Right In: 552.756+/-0.000  $\chi^2/\text{NDF}$ : 438588904166490483585471990950715719680.0/16  
 Left Out: 167.275+/-0.000  $\chi^2/\text{NDF}$ : 3021189019464897046042040078702739456.0/11  
 Right Out: -463.044+/-0.000  $\chi^2/\text{NDF}$ : 209305475229629435748794855521804877824.0/17  
 Left In: -169.476+/-0.000  $\chi^2/\text{NDF}$ : 4886350669326169514376198750149279744.0/10  
 All: 14.293+/-0.000  $\chi^2/\text{NDF}$ : 1072717340633

dit\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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\_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

$\chi^2/\text{NDF}$ : 38878868284472308051396307871868318121984.0/16

$\chi^2/\text{NDF}$ : 3774906693530884073018019224850138136576.0/11

$\chi^2/\text{NDF}$ : 48617231317968827835072936626093341802496.0/17

$\chi^2/\text{NDF}$ : 2843164619719300530559319168458248159232.0/10

Left: 60.964+/-0.000  $\chi^2/\text{NDF}$ : 87947728718385241

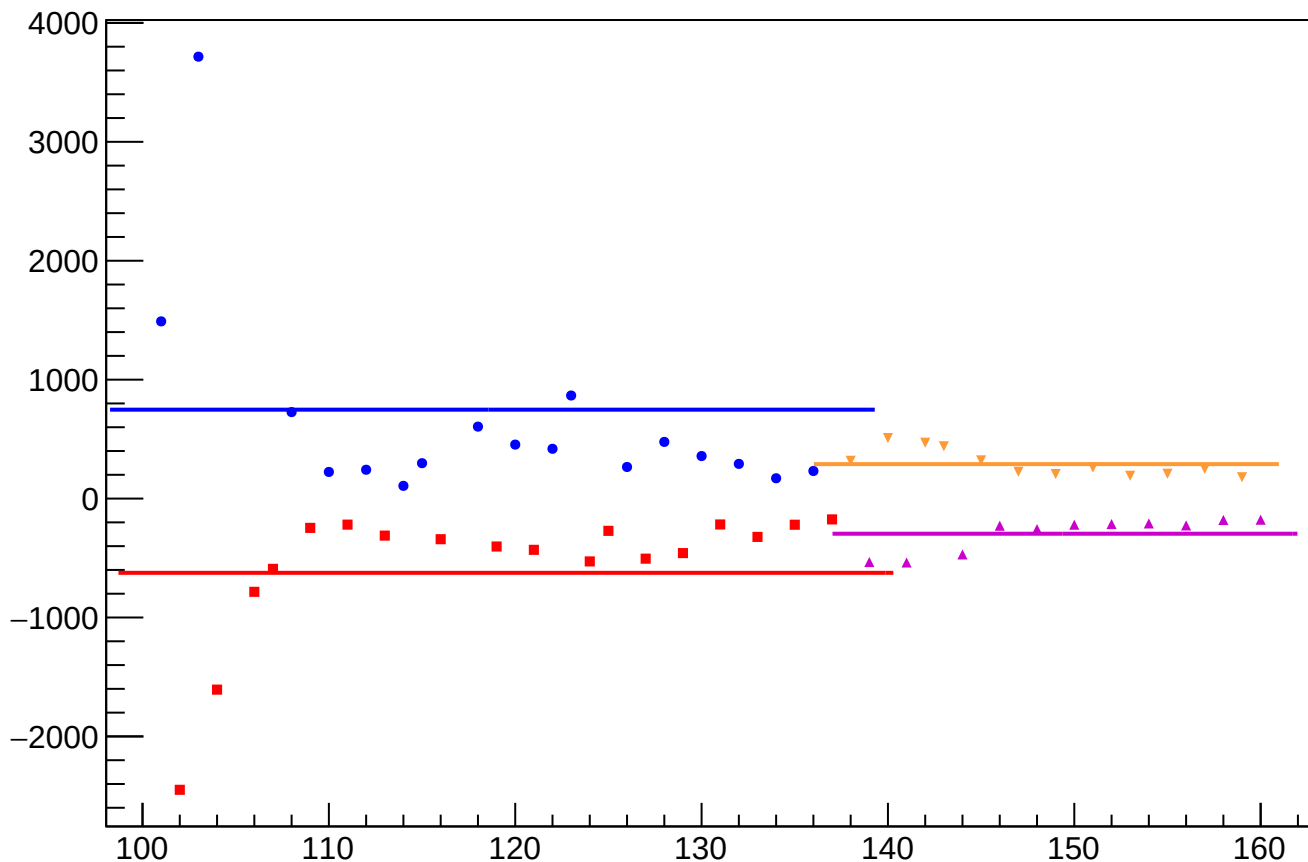
Right: -190.923+/-0.000  $\chi^2/\text{NDF}$ : 10832812445866

In: 2049.846+/-0.000  $\chi^2/\text{NDF}$ : 8740097605988358

Out: -2150.132+/-0.000  $\chi^2/\text{NDF}$ : 94588776360952

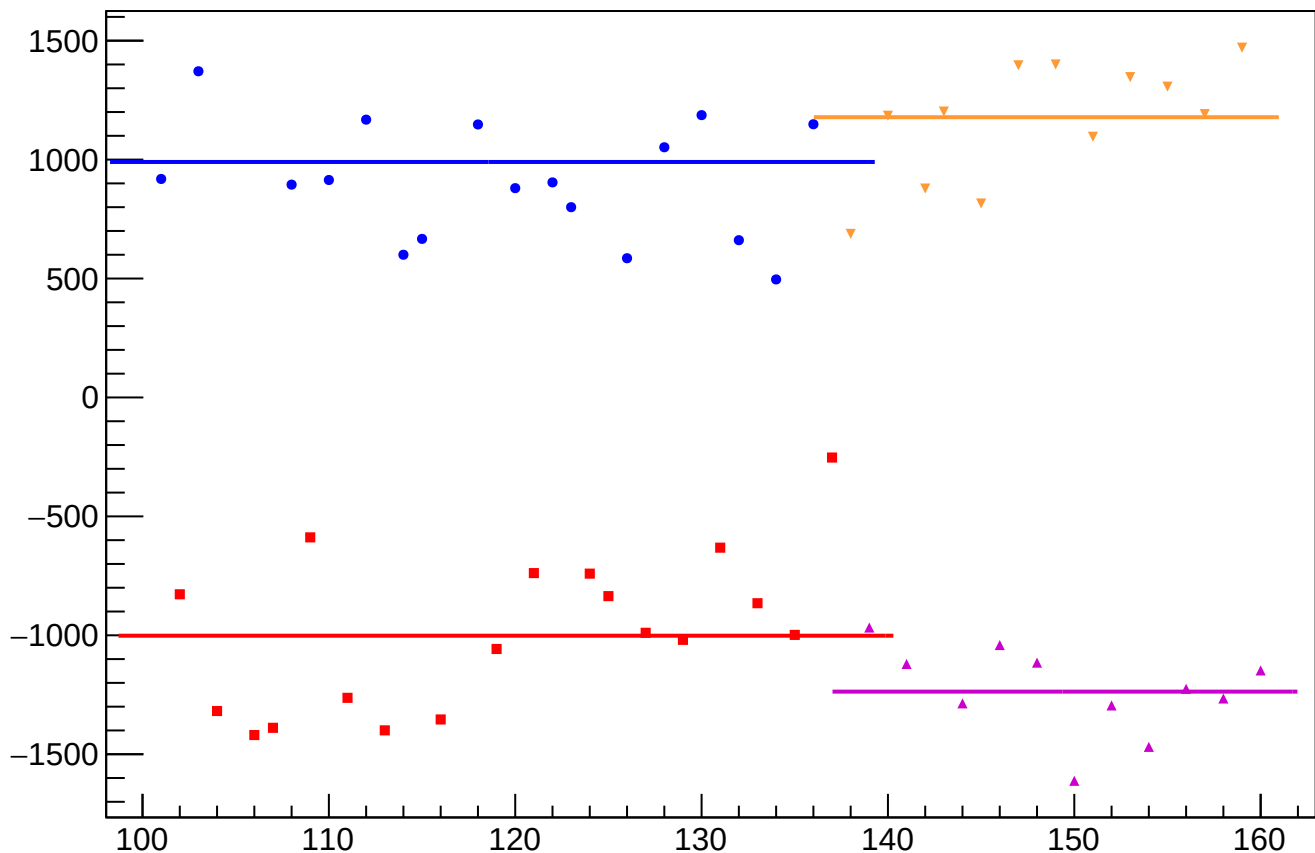
All: -48.205+/-0.000  $\chi^2/\text{NDF}$ : 196326504713

# dit\_sam4\_coil6\_err\_mean vs Slug, Sign Corrected



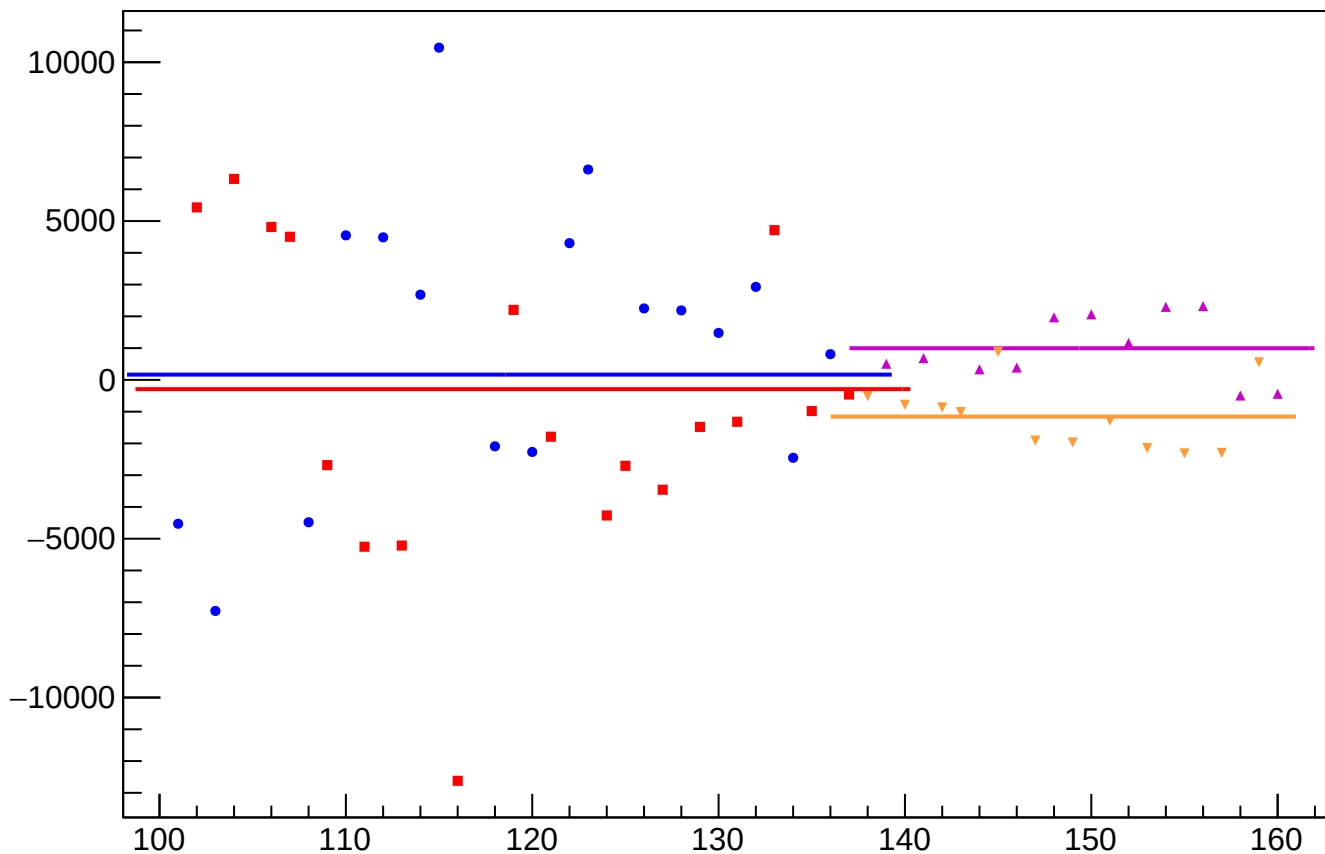
Right In: 747.700+/-0.000  $\chi^2/\text{NDF}$ : 65093293799436921921443577270989717504.0/16  
 Left Out: 289.811+/-0.000  $\chi^2/\text{NDF}$ : 10481549601194900606923730784744374272.0/11  
 Right Out: -624.223+/-0.000  $\chi^2/\text{NDF}$ : 296243096292052743688943276873819881472.0/17  
 Left In: -295.493+/-0.000  $\chi^2/\text{NDF}$ : 17160133140926555155362591865869172736.0/10  
 All: 18.557+/-0.000  $\chi^2/\text{NDF}$ : 1798098672103

dit\_sam4\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $990.104 \pm 0.000$   $\chi^2/\text{NDF}: 36894248833595574425684746704003268608.0/16$   
 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:  $-34.441 \pm 0.000$   $\chi^2/\text{NDF}: 426372184117$

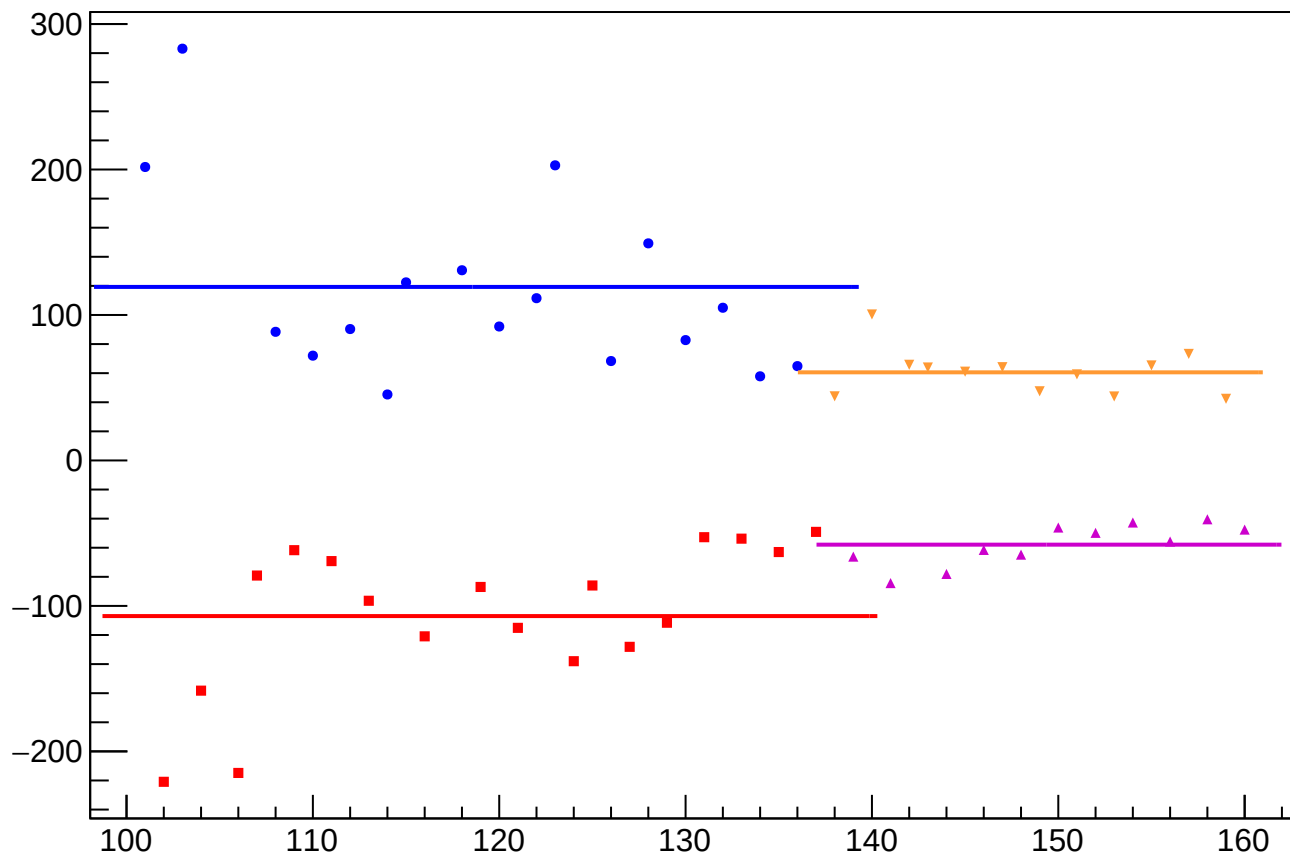
# dit\_sam5\_coil6\_mean vs Slug, Sign Corrected



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:  $-65.719 \pm 0.000$   $\chi^2/\text{NDF}: 294566748207$

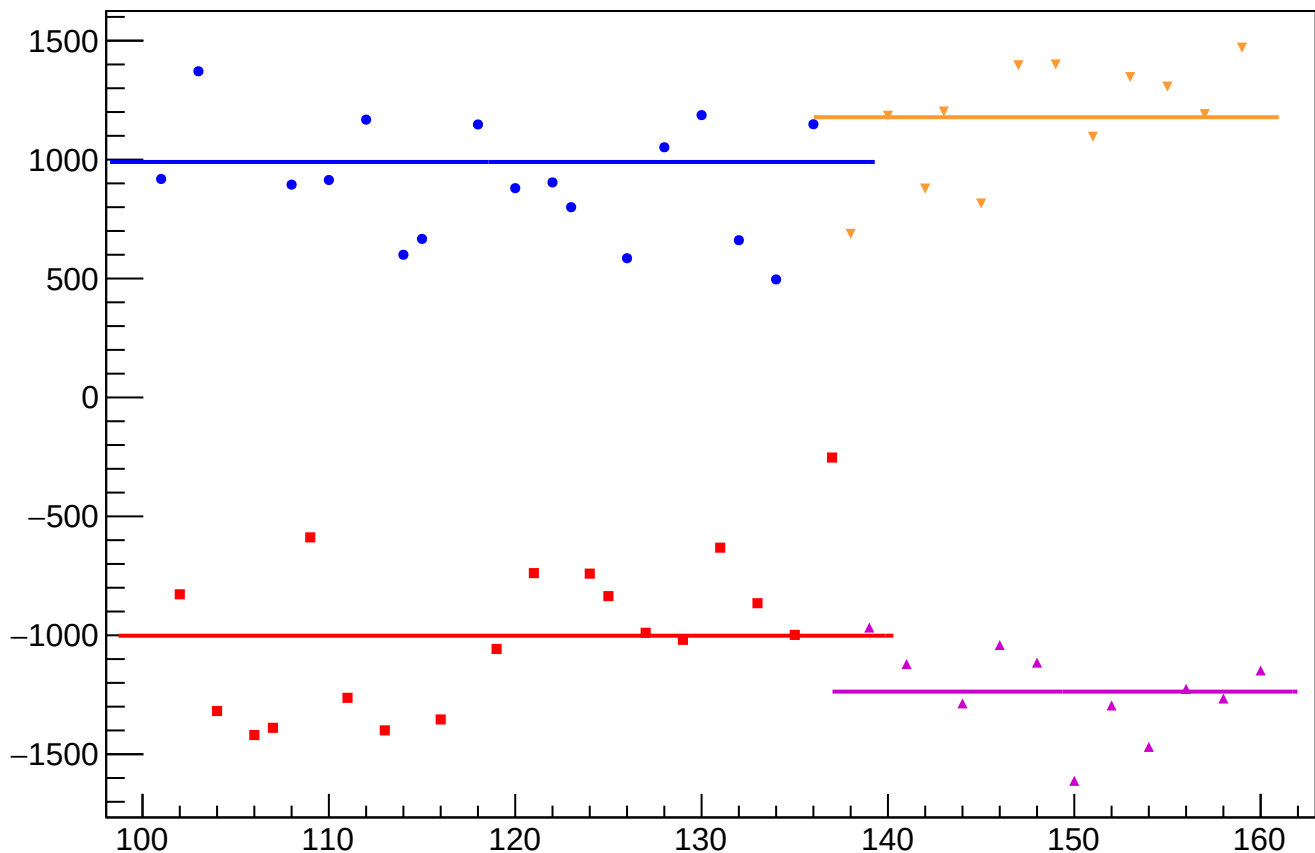


dit\_sam5\_coil6\_err\_mean vs Slug, Sign Corrected



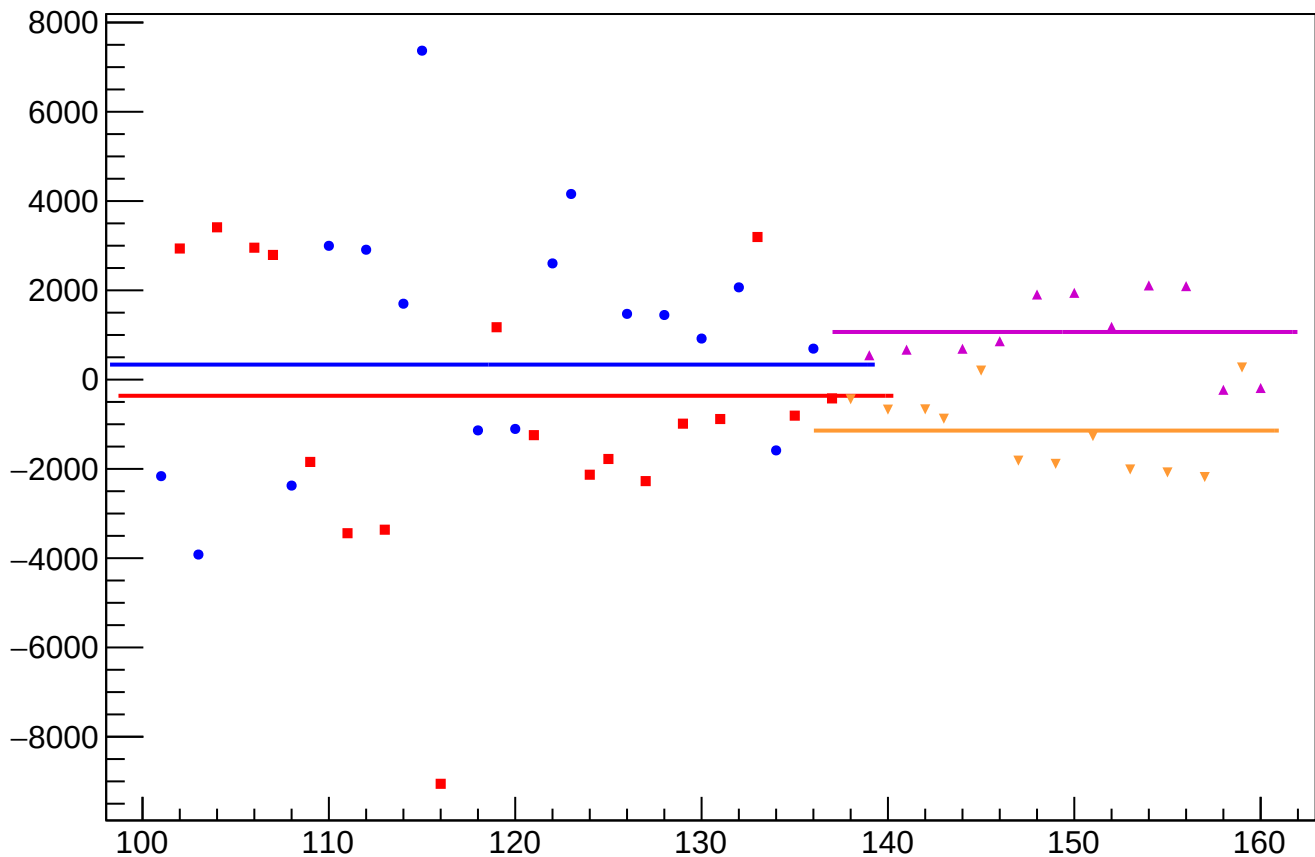
Right In: 119.288+/-0.000  $\chi^2/\text{NDF}$ : 2842654207411905514935251828991852544.0/16  
 Left Out: 60.571+/-0.000  $\chi^2/\text{NDF}$ : 231982084385304468307819992004427776.0/11  
 Right Out: -106.986+/-0.000  $\chi^2/\text{NDF}$ : 1915046958698396013008025410372370432.0/17  
 Left In: -57.892+/-0.000  $\chi^2/\text{NDF}$ : 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+/-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\_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

Left: -22.881 +/- 0.000  $\chi^2/\text{NDF}$ : 3546400911040833

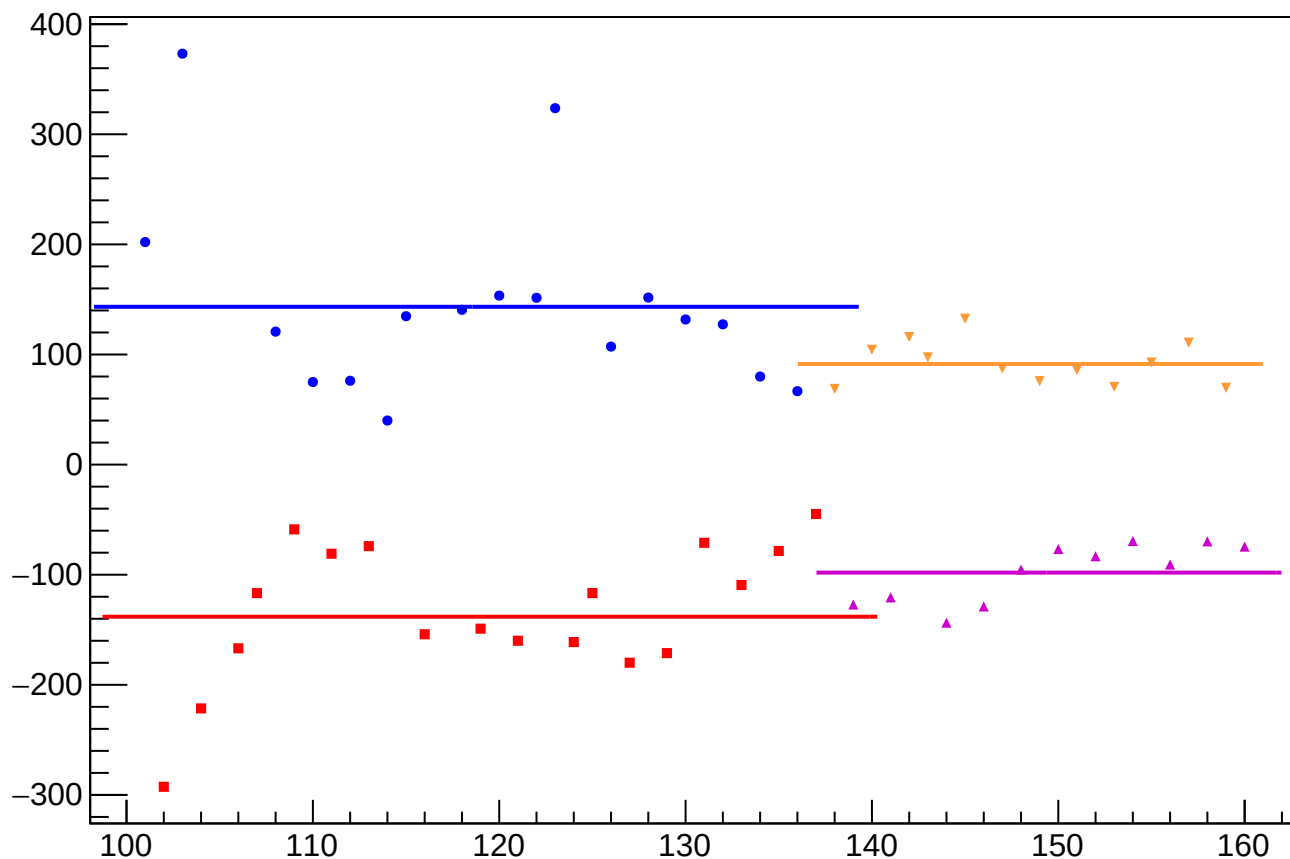
Right: -17.963 +/- 0.000  $\chi^2/\text{NDF}$ : 985003998805048

In: 755.511 +/- 0.000  $\chi^2/\text{NDF}$ : 45532764770089148

Out: -798.444 +/- 0.000  $\chi^2/\text{NDF}$ : 688057690299811

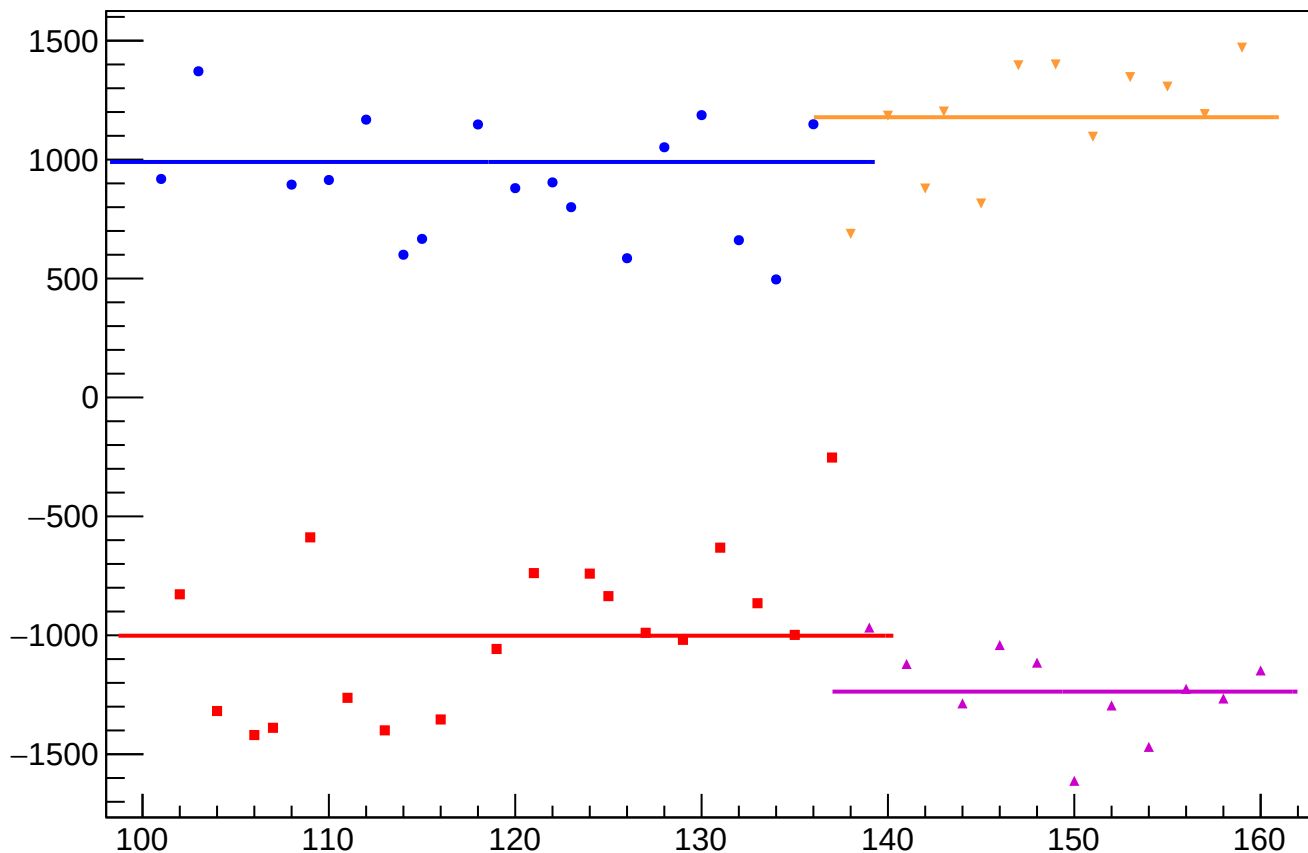
All: -20.750 +/- 0.000  $\chi^2/\text{NDF}$ : 133964602028

dit\_sam6\_coil6\_err\_mean vs Slug, Sign Corrected



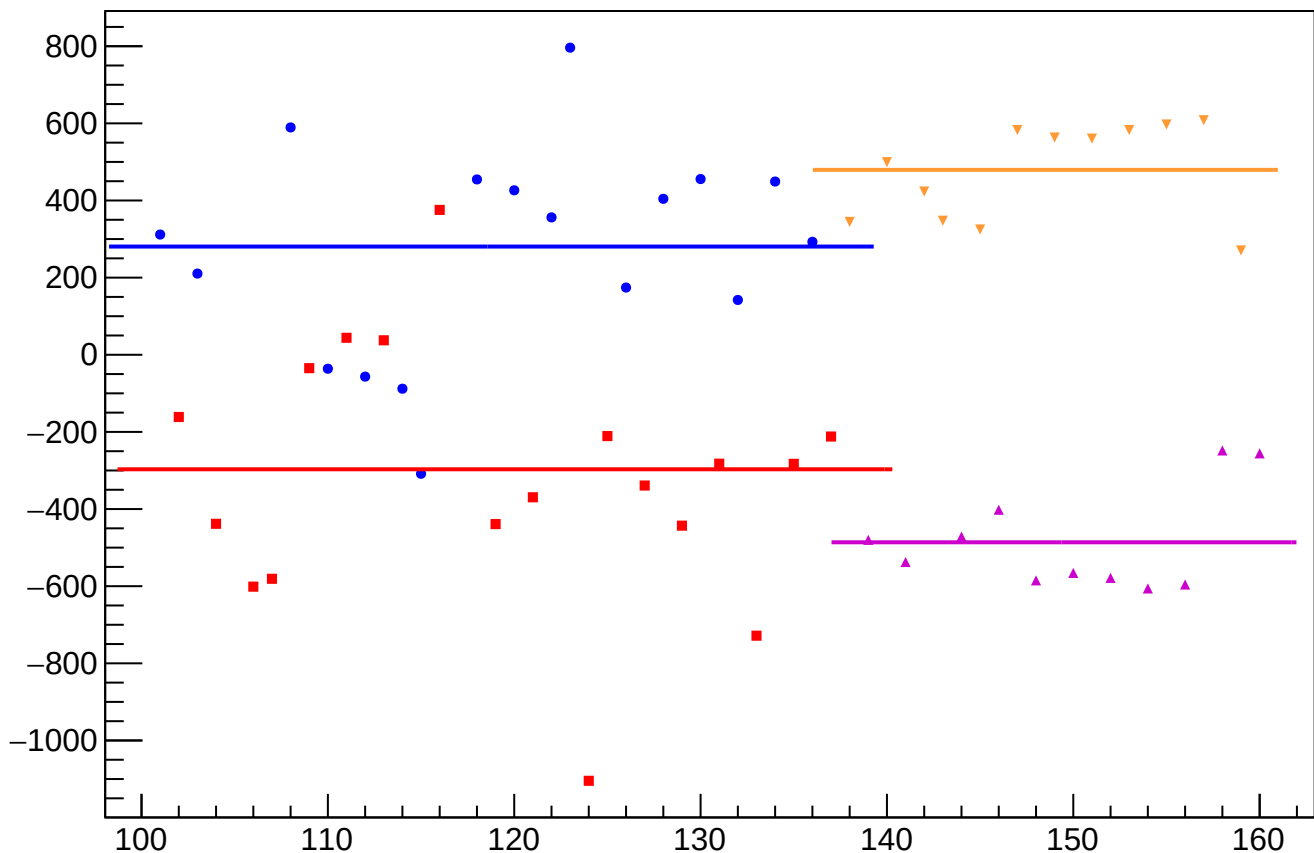
Left:  $-4.578 \pm 0.000$   $\chi^2/\text{NDF}: 17491553259507675$   
 Right In:  $143.327 \pm 0.000$   $\chi^2/\text{NDF}: 4671526487507242419296658853814337536.0/16$   
 Left Out:  $91.381 \pm 0.000$   $\chi^2/\text{NDF}: 342224682721014507534258785086341120.0/11$   
 Right Out:  $-138.133 \pm 0.000$   $\chi^2/\text{NDF}: 3152322250150098804756661412355375104.0/17$   
 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

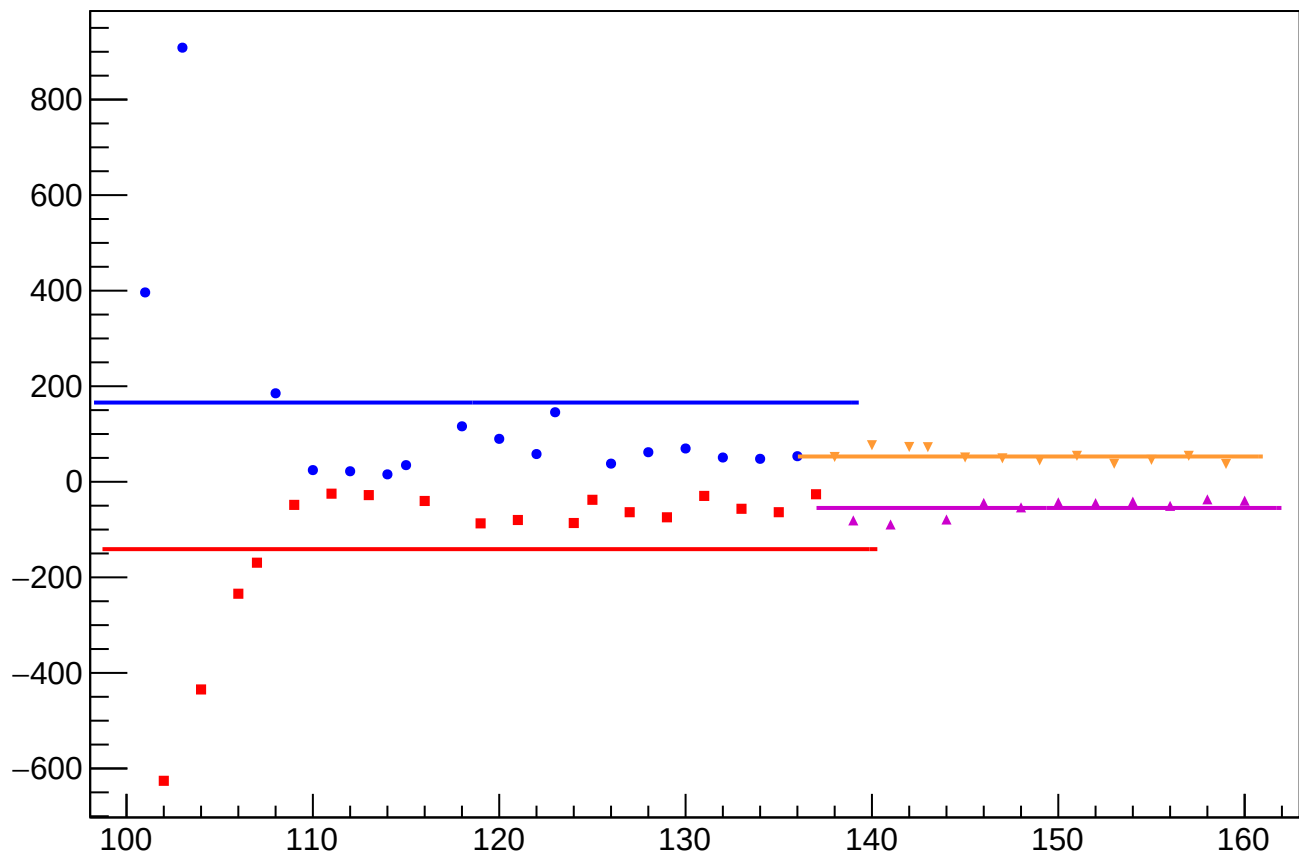
$\chi^2/\text{NDF}$ : 53152105752477344290303829793952497664.0/17

Left In: -486.206+/-0.000

$\chi^2/\text{NDF}$ : 14204620343976110093613729776425500672.0/10

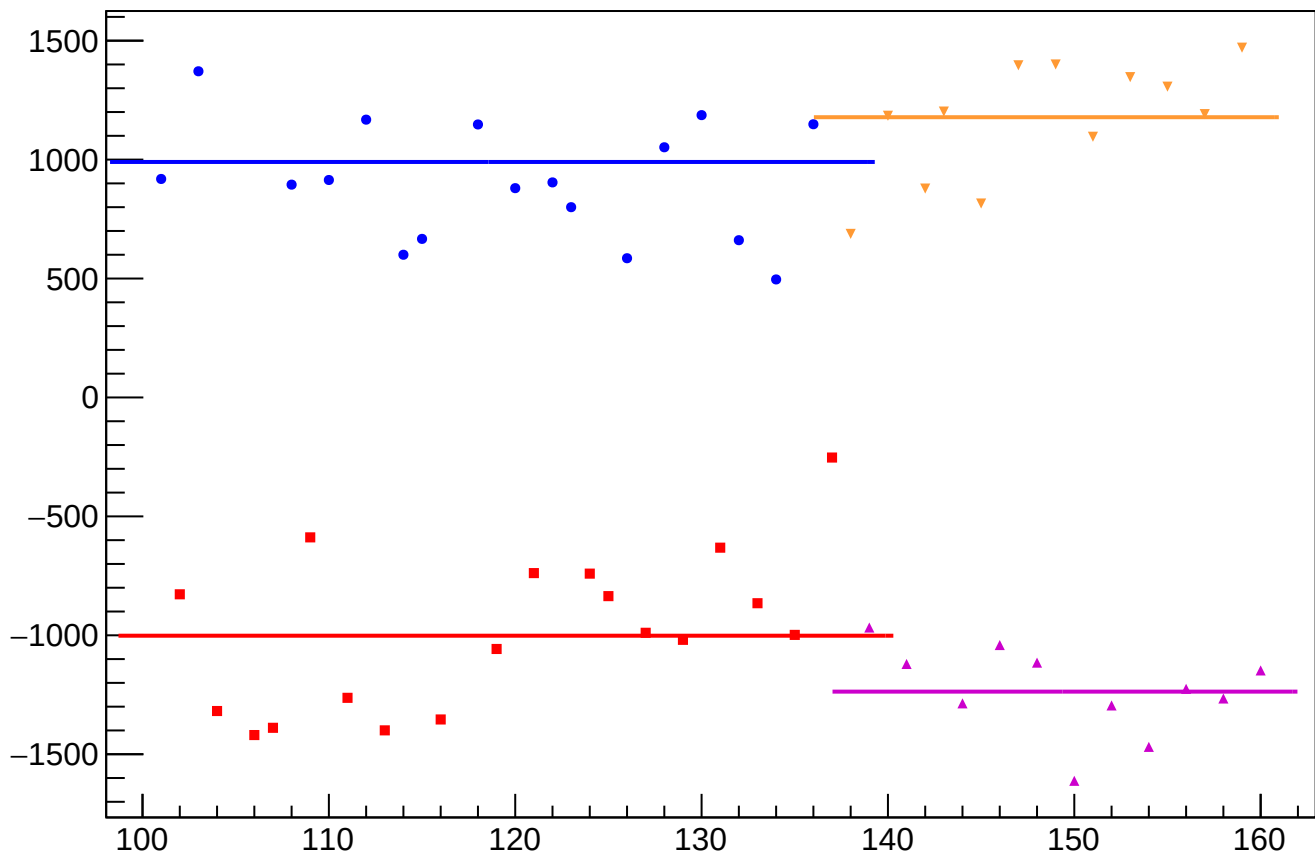
All: -10.889+/-0.000  $\chi^2/\text{NDF}$ : 654280499150

dit\_sam7\_coil6\_err\_mean vs Slug, Sign Corrected



Left:  $-1.606 \pm 0.000$   $\chi^2/\text{NDF}: 57827567098124295$   
 Right In:  $165.841 \pm 0.000$   $\chi^2/\text{NDF}: 42388910284637758892134233675562745856.0/16$   
 Left Out:  $52.946 \pm 0.000$   $\chi^2/\text{NDF}: 140060109724135025714892303400697856.0/11$   
 Right Out:  $-140.976 \pm 0.000$   $\chi^2/\text{NDF}: 22674964646016742017185923250652184576.0/17$   
 In:  $39.341 \pm 0.000$   $\chi^2/\text{NDF}: 62057297470429168$   
 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:  $3.487 \pm 0.000$   $\chi^2/\text{NDF}: 10410918738186$

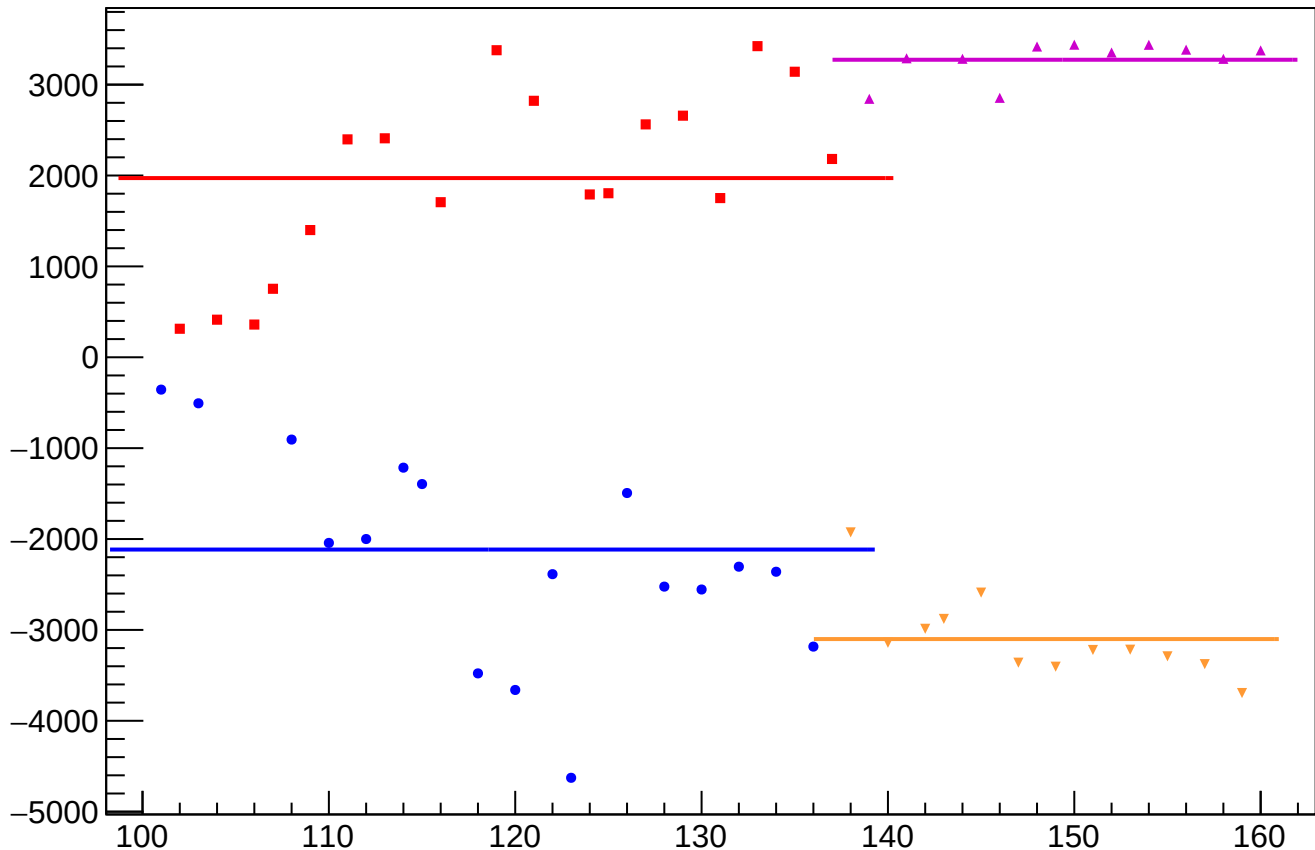
dit\_sam7\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Left:  $-45.003 \pm 0.000$   $\chi^2/\text{NDF}: 2767859757374114$   
 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:  $-1001.684 \pm 0.000$   $\chi^2/\text{NDF}: 61351571695254109773751672489010790400.0/17$   
 In:  $-286.905 \pm 0.000$   $\chi^2/\text{NDF}: 2040776092386221$   
 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\_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

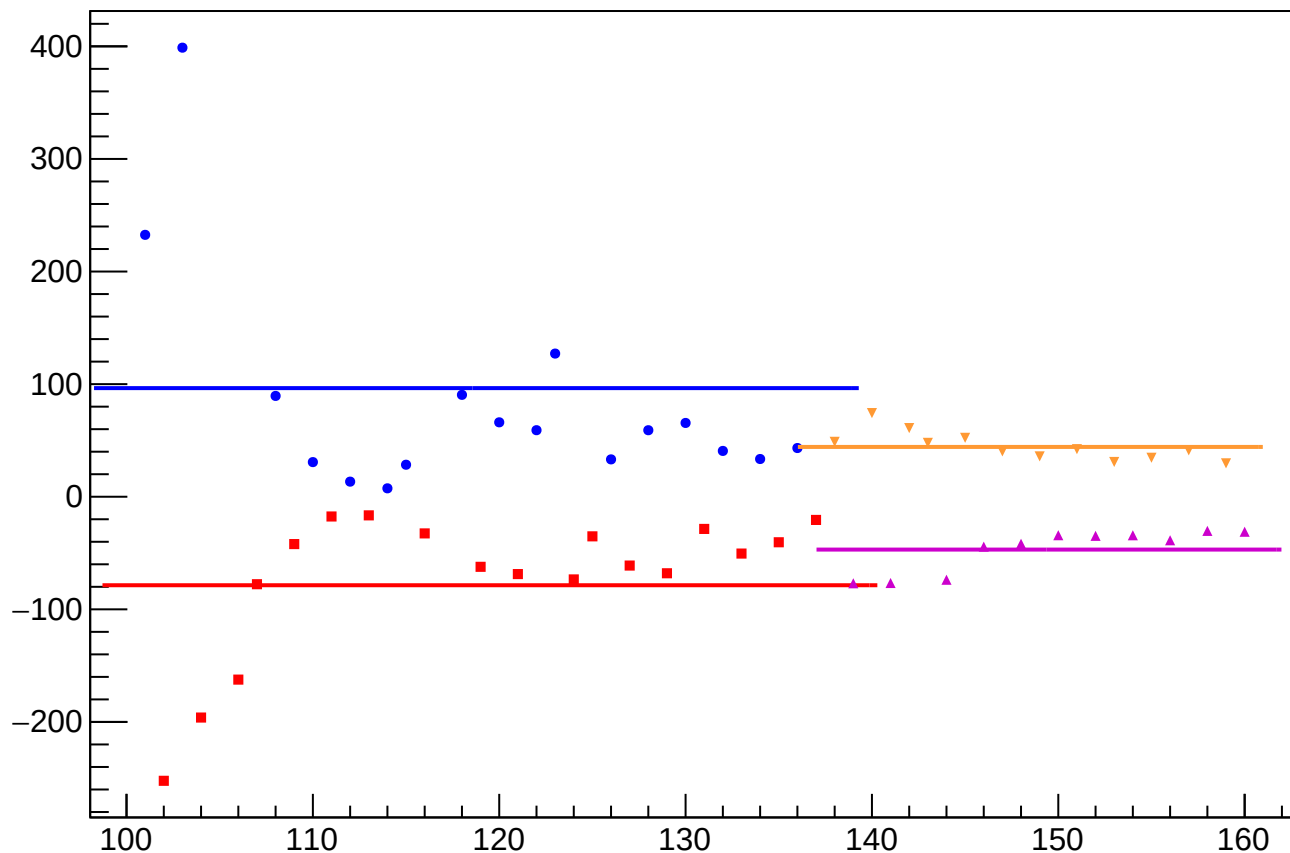
Right: -41.525+/-0.000  $\chi^2/\text{NDF}$ : 741699927533891

In: 974.882+/-0.000  $\chi^2/\text{NDF}$ : 12352701801600156

Out: -867.457+/-0.000  $\chi^2/\text{NDF}$ : 112598146486417

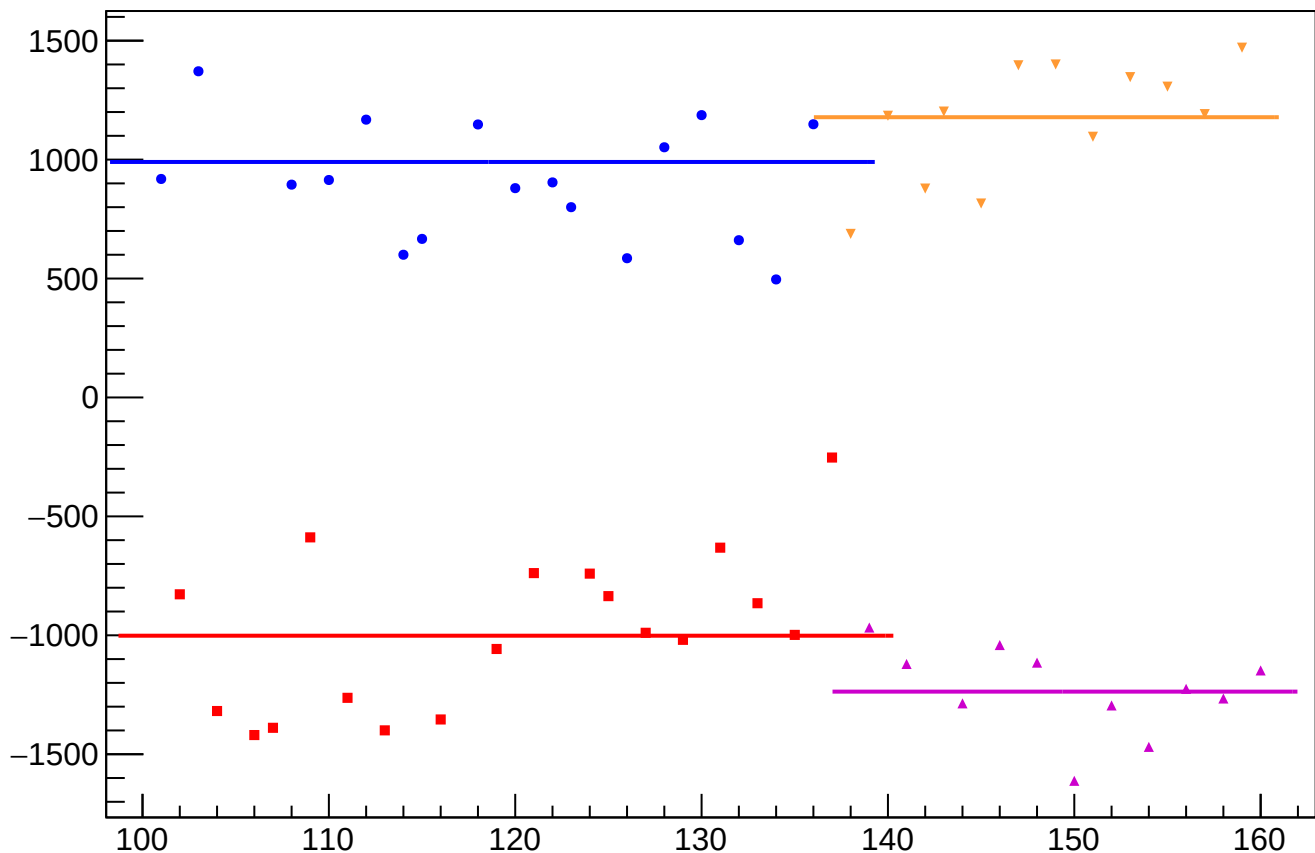
All: 54.562+/-0.000  $\chi^2/\text{NDF}$ : 2637116183170

dit\_sam8\_coil6\_err\_mean vs Slug, Sign Corrected



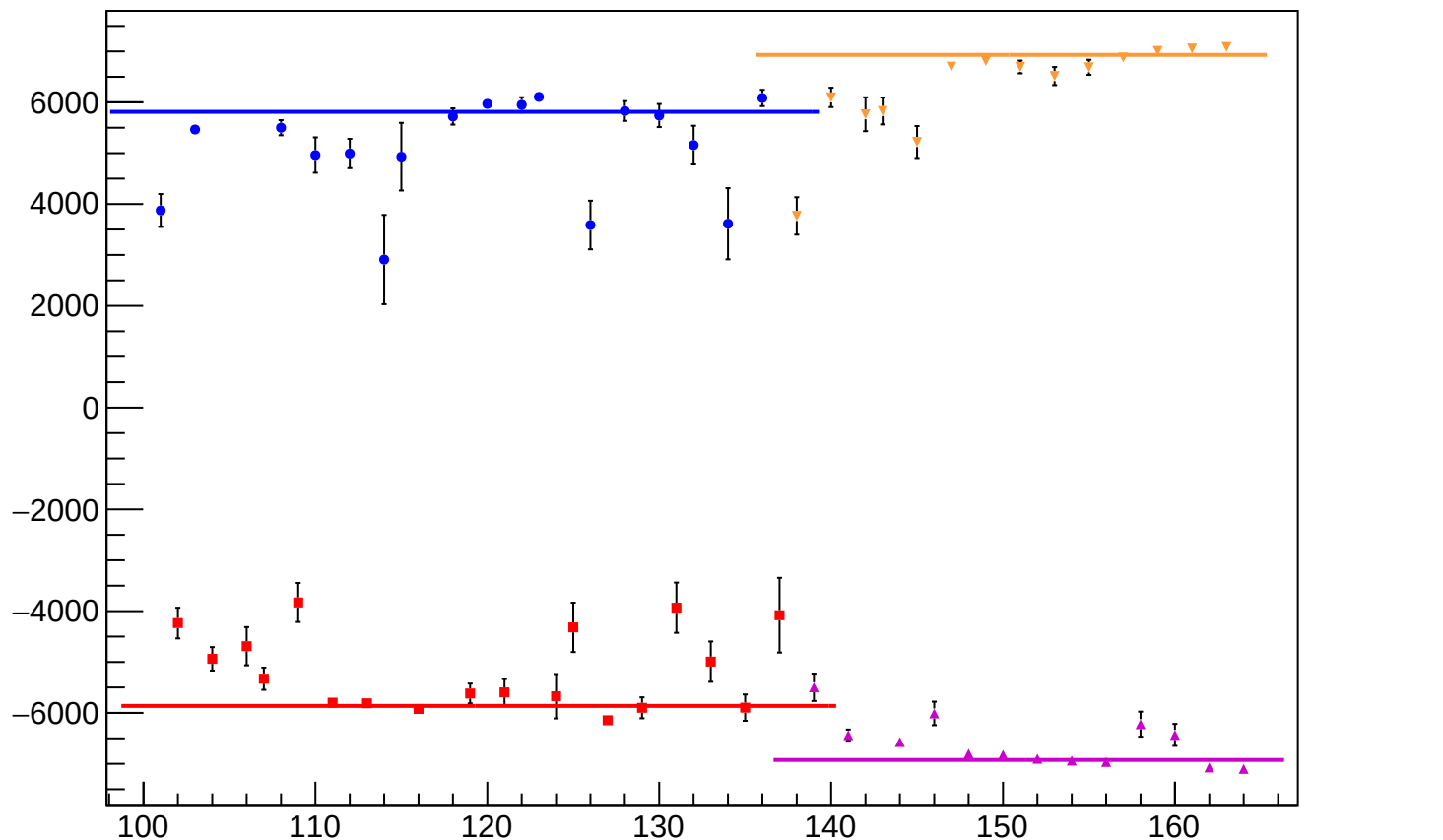
Right In: 96.465+/-0.000  $\chi^2/\text{NDF}$ : 7977727256930133620372701565161570304.0/16  
 Left Out: 44.236+/-0.000  $\chi^2/\text{NDF}$ : 142258955441054075250551696151019520.0/11  
 Right Out: -78.600+/-0.000  $\chi^2/\text{NDF}$ : 3499001556563234508710770672385654784.0/17  
 Left In: -46.934+/-0.000  $\chi^2/\text{NDF}$ : 304947612143078258069151469537329152.0/10  
 All: 2.205+/-0.000  $\chi^2/\text{NDF}$ : 26617277568186

dit\_sam8\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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\_run\_mean vs Slug, Sign Corrected



Right In:  $5812.740 \pm 0.171$   $\chi^2/\text{NDF}: 2217854.6/16$

Left Out:  $6931.710 \pm 0.213$   $\chi^2/\text{NDF}: 291000.5/13$

Right Out:  $-5862.788 \pm 0.139$   $\chi^2/\text{NDF}: 199291.9/17$

Left In:  $-6924.086 \pm 0.152$   $\chi^2/\text{NDF}: 471453.1/12$

Left:  $-2266.642 \pm 0.124$   $\chi^2/\text{NDF}: 2809168154.3/26$

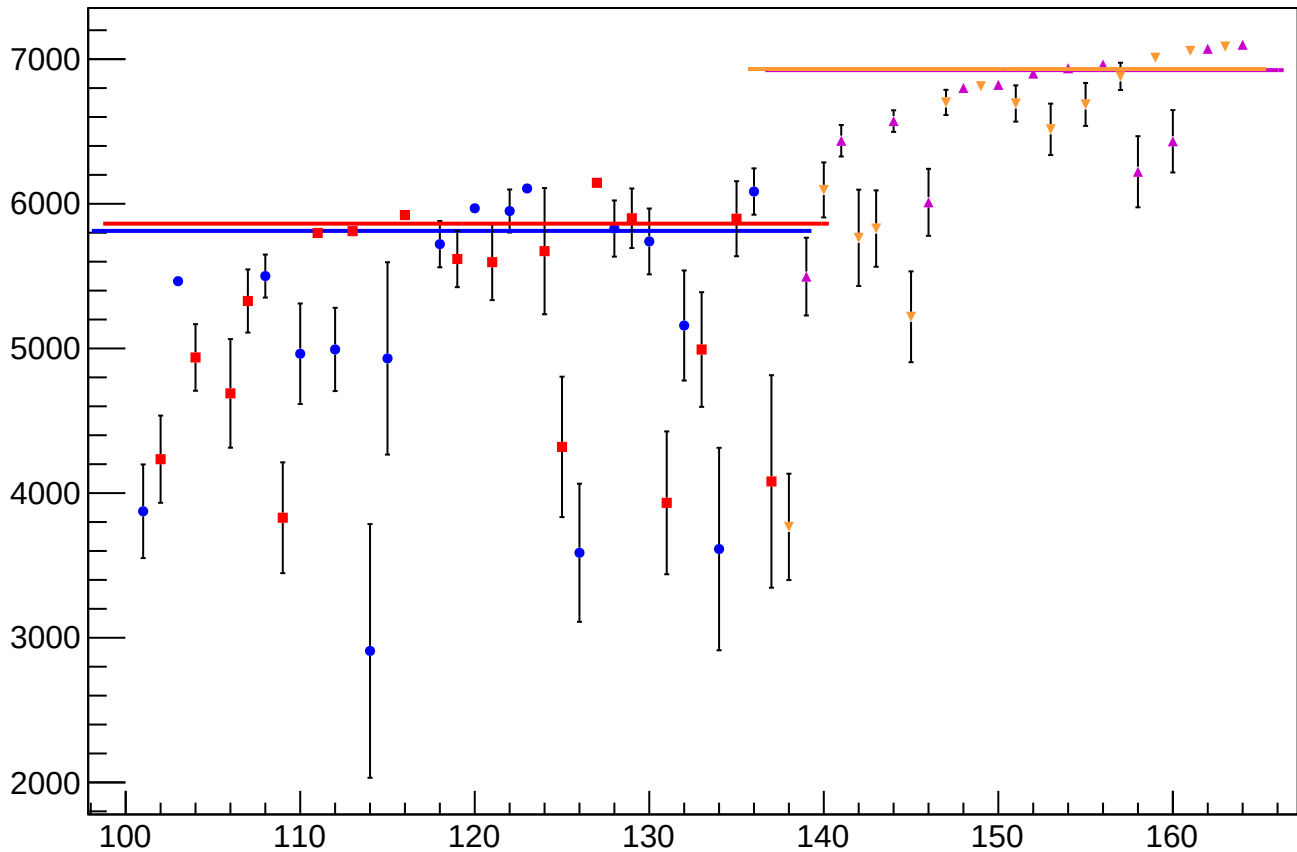
Right:  $-1193.446 \pm 0.108$   $\chi^2/\text{NDF}: 2813995894.0/3$

In:  $-1303.642 \pm 0.113$   $\chi^2/\text{NDF}: 3118080302.9/29$

Out:  $-2032.618 \pm 0.117$   $\chi^2/\text{NDF}: 2527804976.3/31$

All:  $-1657.827 \pm 0.081$   $\chi^2/\text{NDF}: 5665995906$

# dit\_run\_rms vs Slug, Sign Corrected



Right In: 5812.740+/-0.171  $\chi^2/\text{NDF}$ : 2217854.6/16

Left Out: 6931.710+/-0.213  $\chi^2/\text{NDF}$ : 291000.5/13

Right Out: 5862.788+/-0.139  $\chi^2/\text{NDF}$ : 199291.9/17

Left In: 6924.086+/-0.152  $\chi^2/\text{NDF}$ : 471453.1/12

Left: 6926.649+/-0.124  $\chi^2/\text{NDF}$ : 763304.0/26

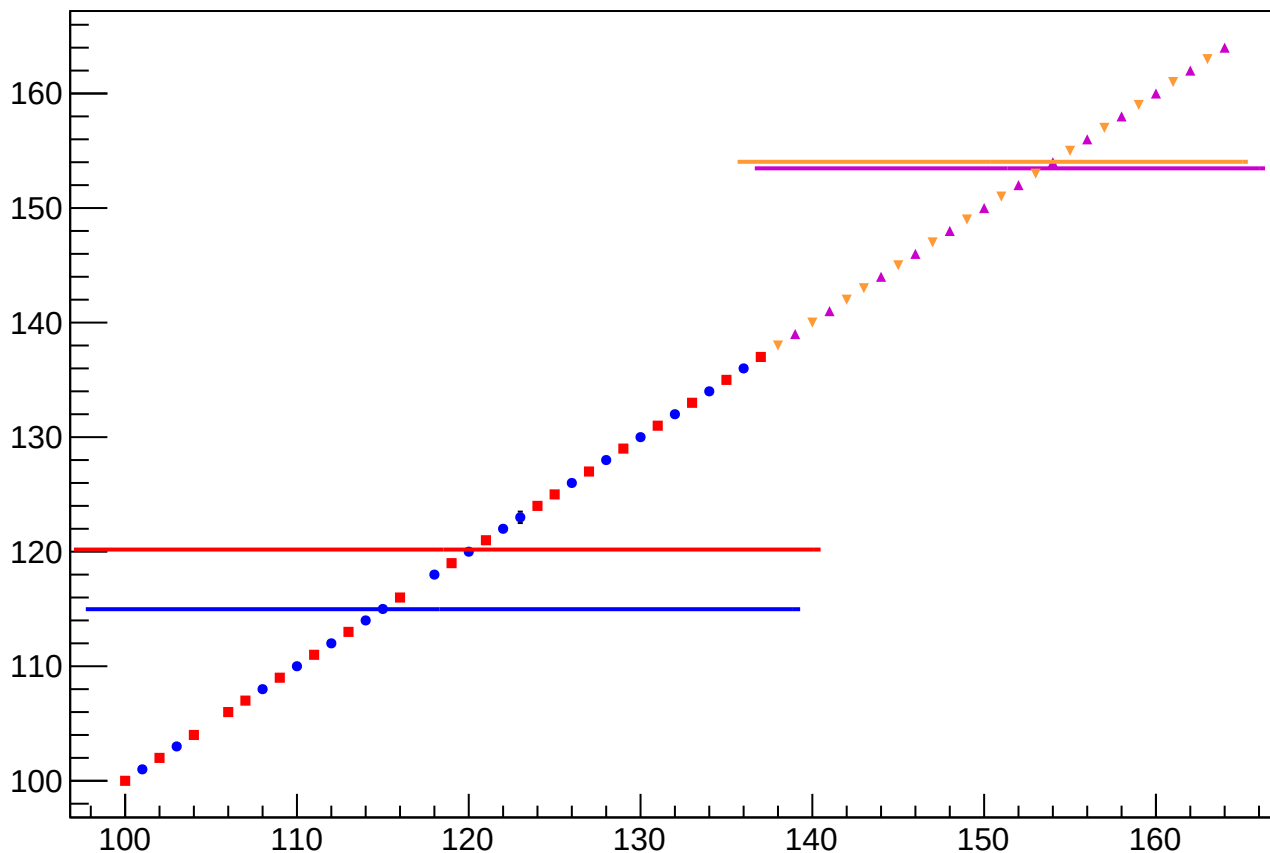
Right: 5842.773+/-0.108  $\chi^2/\text{NDF}$ : 2468807.9/34

In: 6433.677+/-0.113  $\chi^2/\text{NDF}$ : 26407875.4/29

Out: 6182.781+/-0.117  $\chi^2/\text{NDF}$ : 18130563.6/31

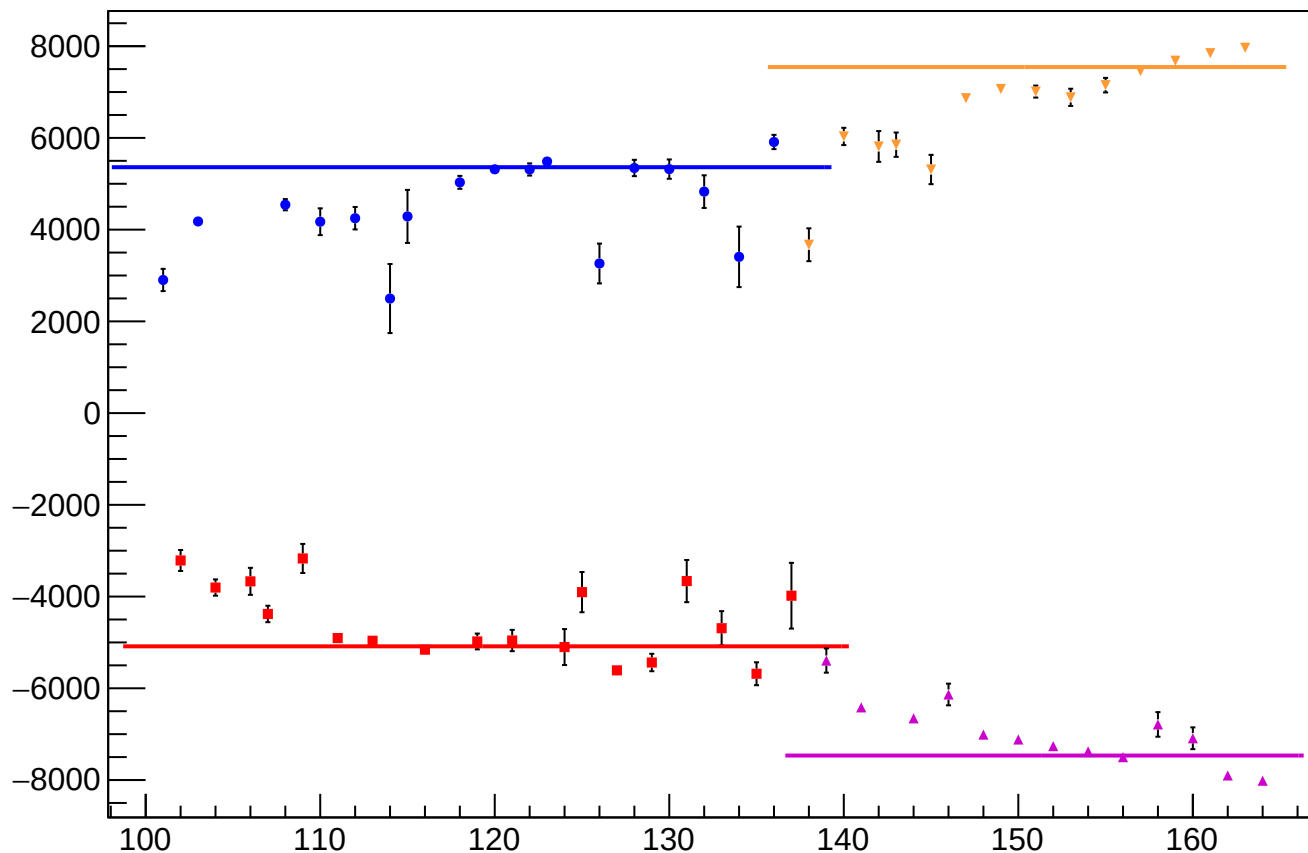
All: 6311.775+/-0.081  $\chi^2/\text{NDF}$ : 46920676.6/6

# dit\_slug\_slope vs Slug, Sign Corrected



Right In: 114.980+/-0.000  $\chi^2/\text{NDF}$ : 112344936246012934714934440230912.0/16  
 Left Out: 154.037+/-0.000  $\chi^2/\text{NDF}$ : 39578585063739809170711270916096.0/13  
 Right Out: 120.186+/-0.000  $\chi^2/\text{NDF}$ : 52233253644261695528198041763840.0/18  
 Left In: 153.465+/-0.000  $\chi^2/\text{NDF}$ : 22504890233625262737240130322432.0/12  
 All: 129.728+/-0.000  $\chi^2/\text{NDF}$ : 139324588728

# dit\_cyclenum\_mean vs Slug, Sign Corrected



Right In: 5361.298 $\pm$ 0.441  $\chi^2$ /NDF: 607948.2/16

Left Out: 7545.236 $\pm$ 0.861  $\chi^2$ /NDF:171339.9/13

Right Out: -5085.163 $\pm$ 0.644  $\chi^2$ /NDF: 80603.0/17

Left In: -7466.308 $\pm$ 0.641  $\chi^2$ /NDF:319985.8/12

Left: -2119.108 $\pm$ 0.514  $\chi^2$ /NDF: 196155214.1/26

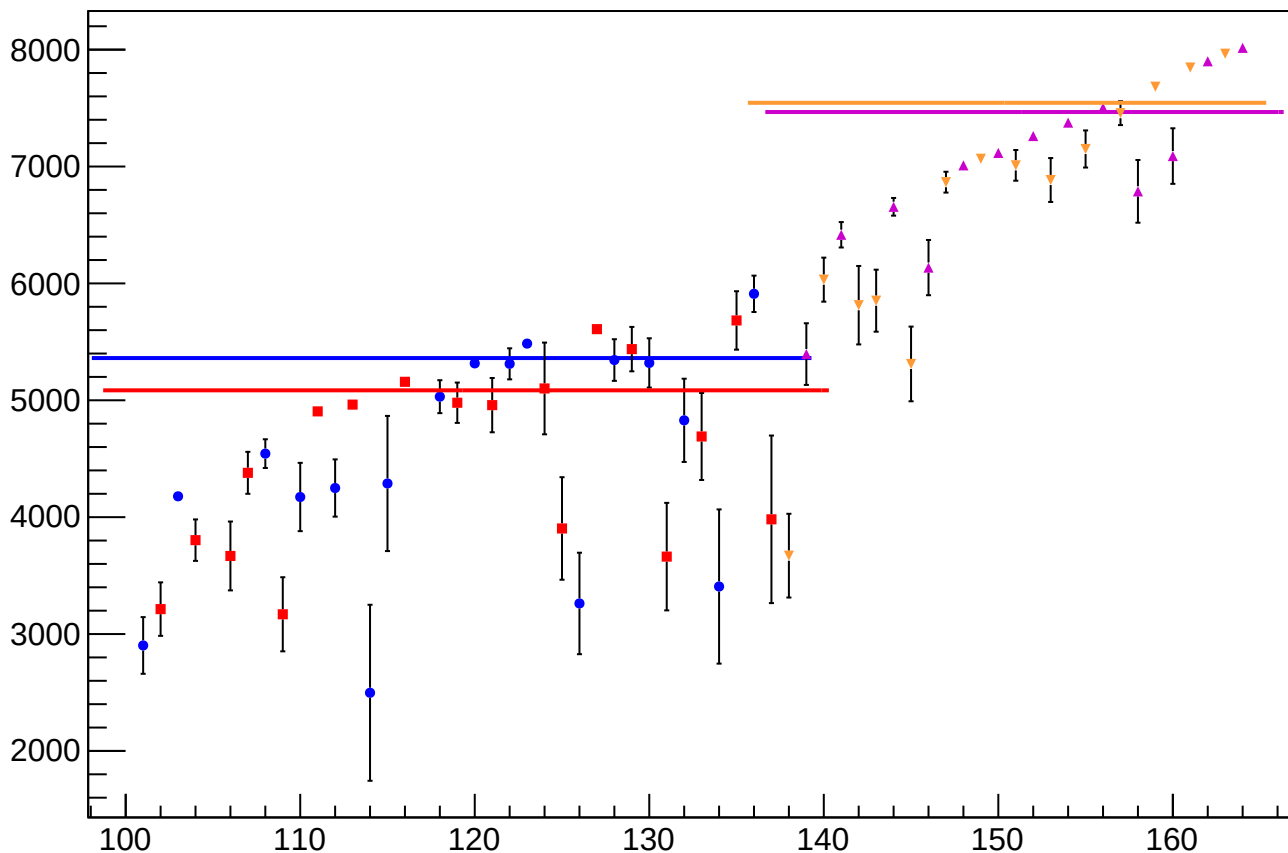
Right: 2021.502 $\pm$ 0.364  $\chi^2$ /NDF: 179839669.6/34

In: 1232.083 $\pm$ 0.363  $\chi^2$ /NDF:272911992.9/29

Out: -556.925 $\pm$ 0.516  $\chi^2$ /NDF:138268387.0/31

All: 638.313 $\pm$ 0.297  $\chi^2$ /NDF: 419224294.8/6

# dit\_cyclenum\_rms vs Slug, Sign Corrected



Right In: 5361.298 $\pm$ 0.441  $\chi^2$ /NDF: 607948.2/16

Left Out: 7545.236 $\pm$ 0.861  $\chi^2$ /NDF:171339.9/13

Right Out: 5085.163 $\pm$ 0.644  $\chi^2$ /NDF: 80603.0/17

Left In: 7466.308 $\pm$ 0.641  $\chi^2$ /NDF:319985.8/12

Left: 7494.423 $\pm$ 0.514  $\chi^2$ /NDF: 496734.7/26

Right: 5273.016 $\pm$ 0.364  $\chi^2$ /NDF: 813728.5/34

In: 6038.902 $\pm$ 0.363  $\chi^2$ /NDF:8252140.8/29

Out: 5967.146 $\pm$ 0.516  $\chi^2$ /NDF:5487861.5/31

All: 6015.086 $\pm$ 0.297  $\chi^2$ /NDF: 13752943.3/6



# 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  $\chi^2/\text{NDF}$ : 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

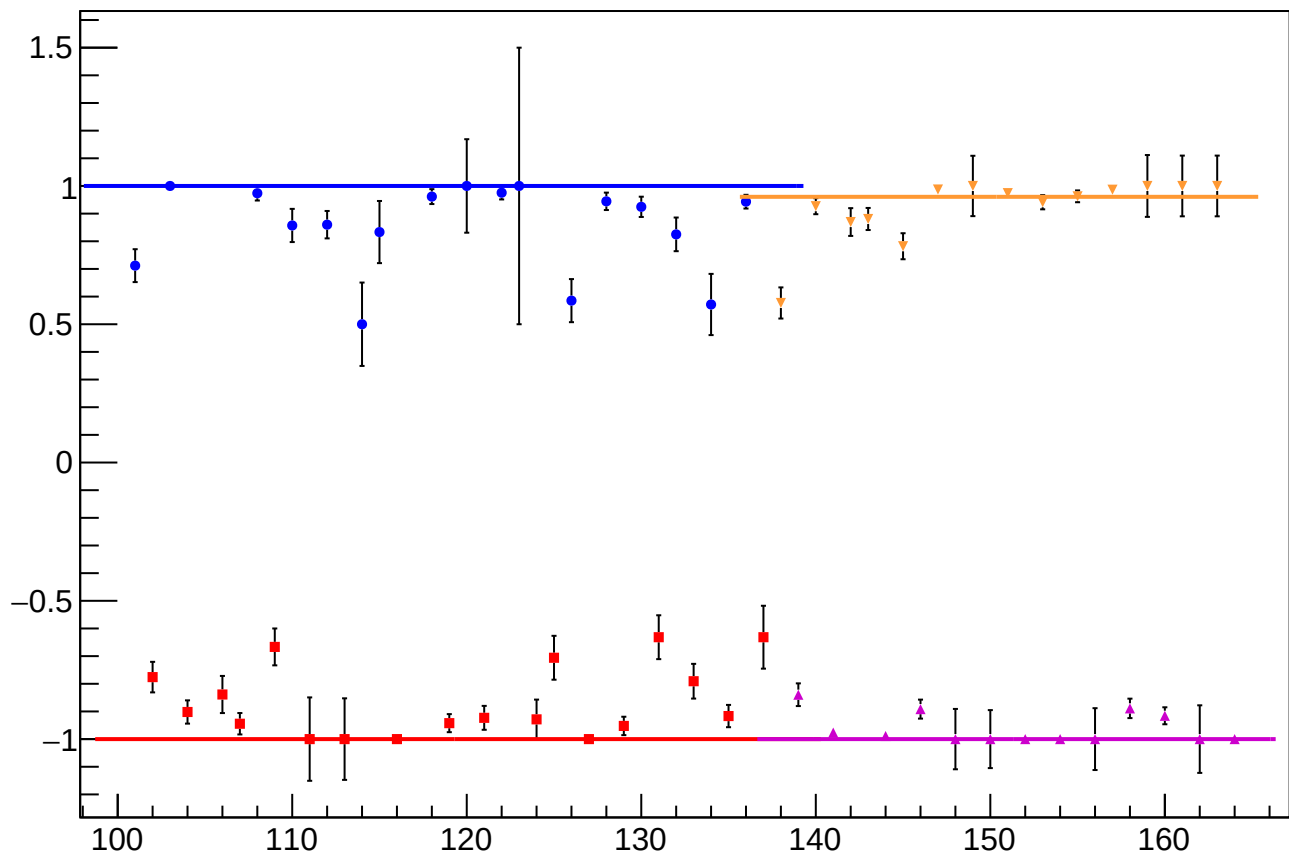
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_flag\_mean vs Slug, Sign Corrected



Right In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 118.6/16$

Left Out:  $0.961 \pm 0.007$   $\chi^2/\text{NDF}: 79.1/13$

Right Out:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 192.3/17$

Left In:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 278.8/12$

Left:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 83346.1/26$

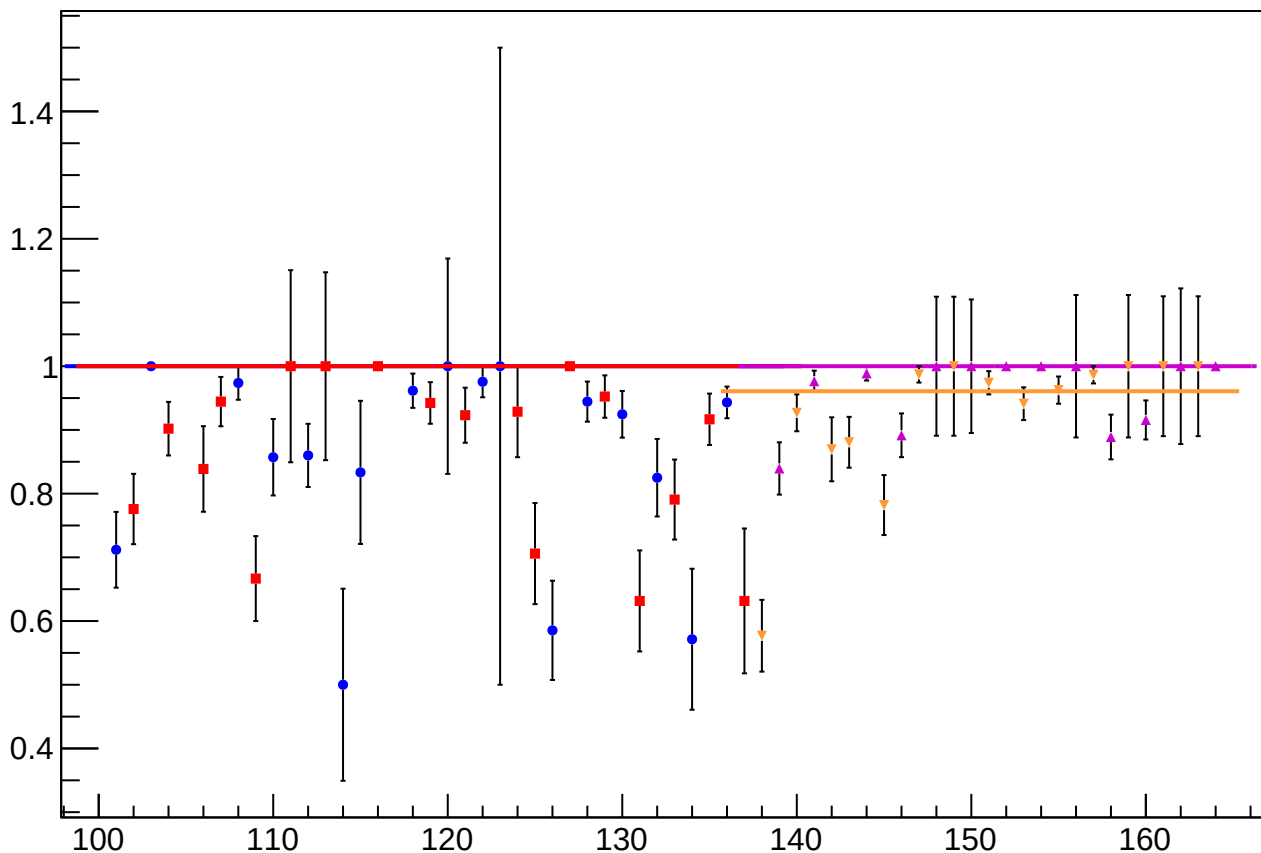
Right:  $-0.072 \pm 0.000$   $\chi^2/\text{NDF}: 2522158199033292$

In:  $-0.752 \pm 0.000$   $\chi^2/\text{NDF}: 412235641346014355$

Out:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 83259.5/31$

All:  $-0.783 \pm 0.000$   $\chi^2/\text{NDF}: 4195387993230$

# dit\_flag\_rms vs Slug, Sign Corrected



Right In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 118.6/16$

Left Out:  $0.961 \pm 0.007$   $\chi^2/\text{NDF}: 79.1/13$

Right Out:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 192.3/17$

Left In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 278.8/12$

Left:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 391.2/26$

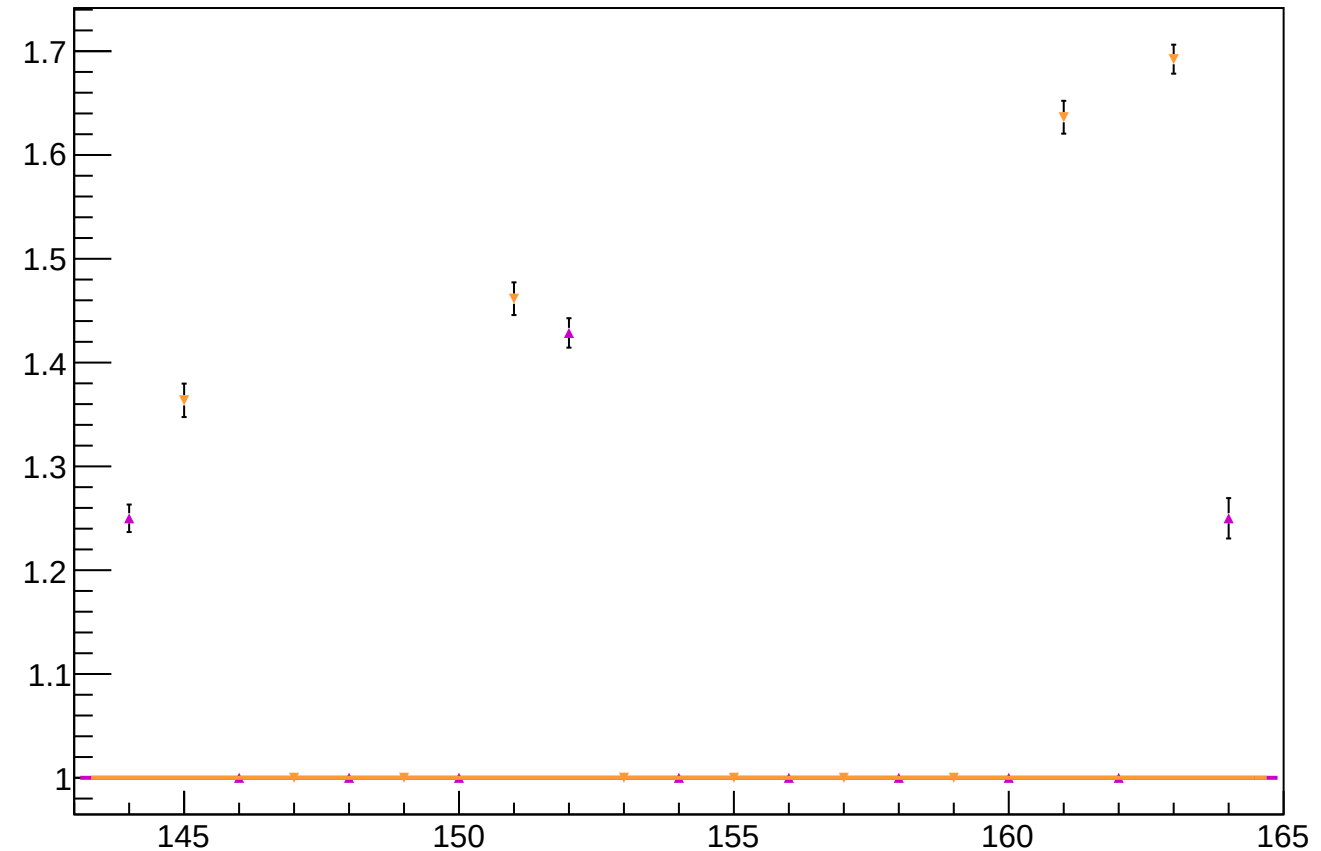
Right:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 243.9/34$

In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 1039.4/29$

Out:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 304.7/31$

All:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 760.1/61$

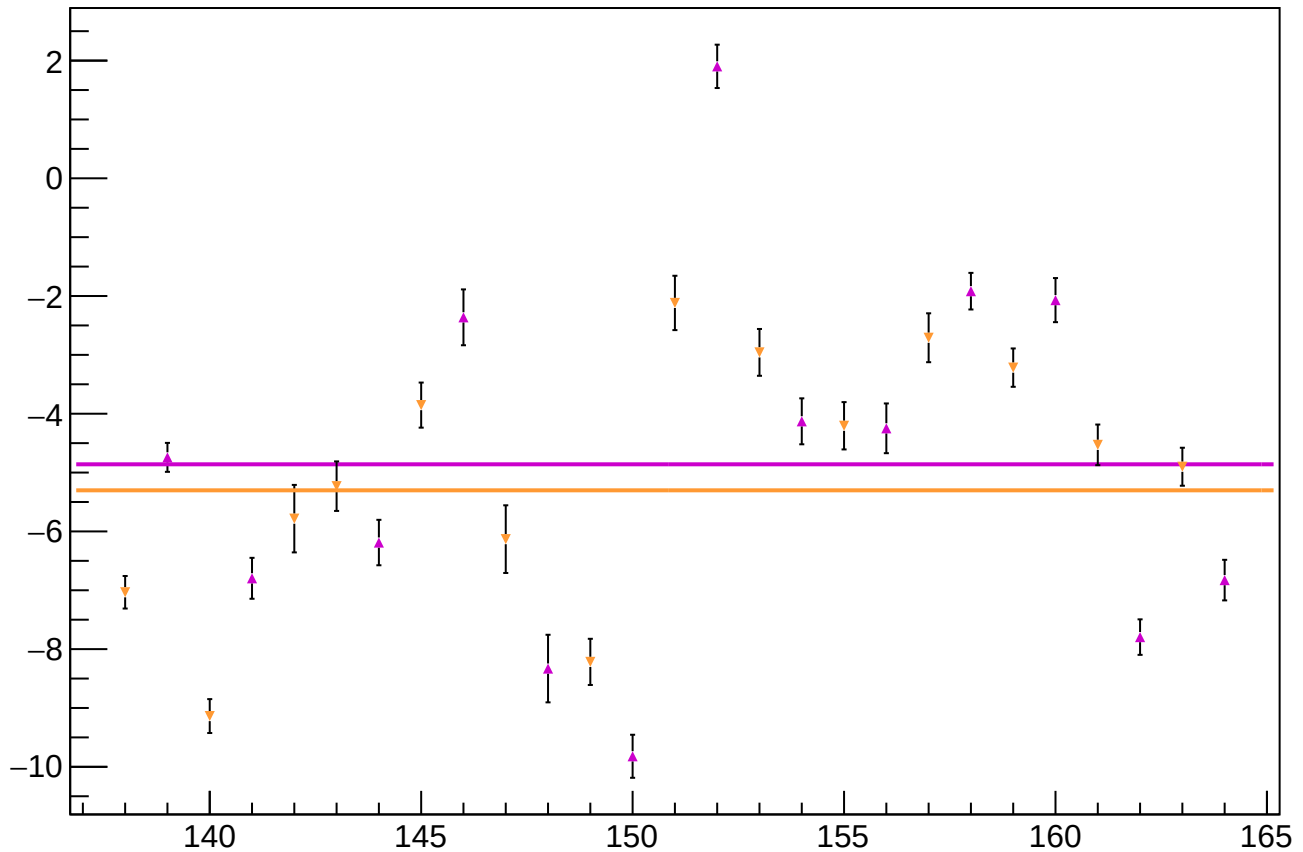
# dit\_segment\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ :6735.5/9  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 1.000+/-0.000  $\chi^2/\text{NDF}$ :2095.8/10

Left: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 8024.0/20  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 1.000+/-0.000  $\chi^2/\text{NDF}$ :2095.8/10  
Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ :6735.5/9  
All: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 8024.0/20

reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected

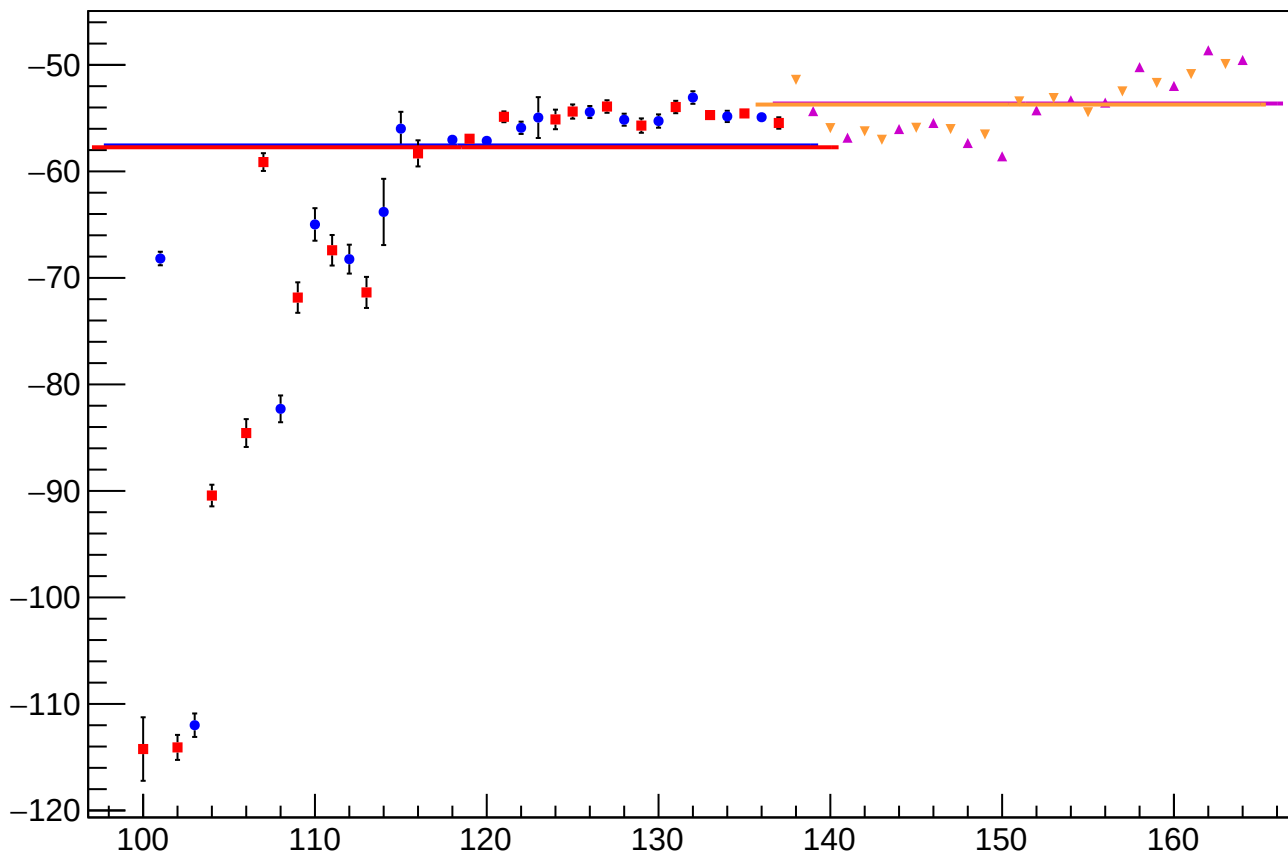


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -5.302+/-0.100  $\chi^2/\text{NDF}$ :464.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.860+/-0.099  $\chi^2/\text{NDF}$ :906.2/12

Left: -5.078+/-0.070  $\chi^2/\text{NDF}$ : 1381.0/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.860+/-0.099  $\chi^2/\text{NDF}$ :906.2/12  
 Out: -5.302+/-0.100  $\chi^2/\text{NDF}$ :464.9/13  
 All: -5.078+/-0.070  $\chi^2/\text{NDF}$ : 1381.0/26



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: -53.724 $\pm$ 0.073  $\chi^2$ /NDF:1033.4/13

Right Out: -57.736 $\pm$ 0.143  $\chi^2$ /NDF: 4698.4/18

Left In: -53.627 $\pm$ 0.075  $\chi^2$ /NDF:1761.7/12

Left: -53.677 $\pm$ 0.052  $\chi^2$ /NDF: 2795.9/26

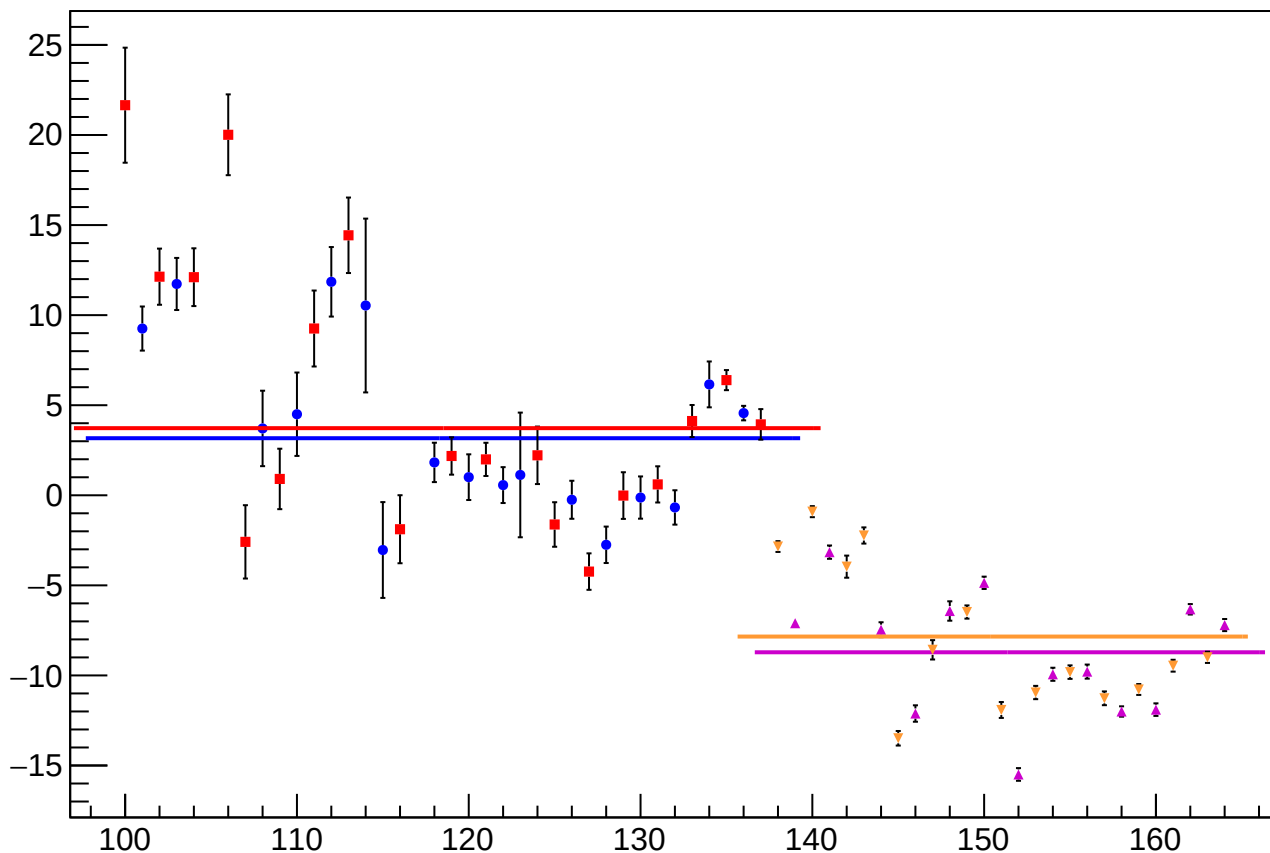
Right: -57.649 $\pm$ 0.101  $\chi^2$ /NDF: 8155.1/35

In: -54.491 $\pm$ 0.066  $\chi^2$ /NDF:5822.0/29

Out: -54.556 $\pm$ 0.065  $\chi^2$ /NDF:6355.4/32

All: -54.524 $\pm$ 0.046  $\chi^2$ /NDF: 12177.9/62

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:  $-7.842 \pm 0.098$   $\chi^2/\text{NDF}$ : 1590.5/13

Right Out:  $3.726 \pm 0.267$   $\chi^2/\text{NDF}$ : 323.3/18

Left In:  $-8.715 \pm 0.097$   $\chi^2/\text{NDF}$ : 1164.1/12

Left:  $-8.287 \pm 0.069$   $\chi^2/\text{NDF}$ : 2794.6/26

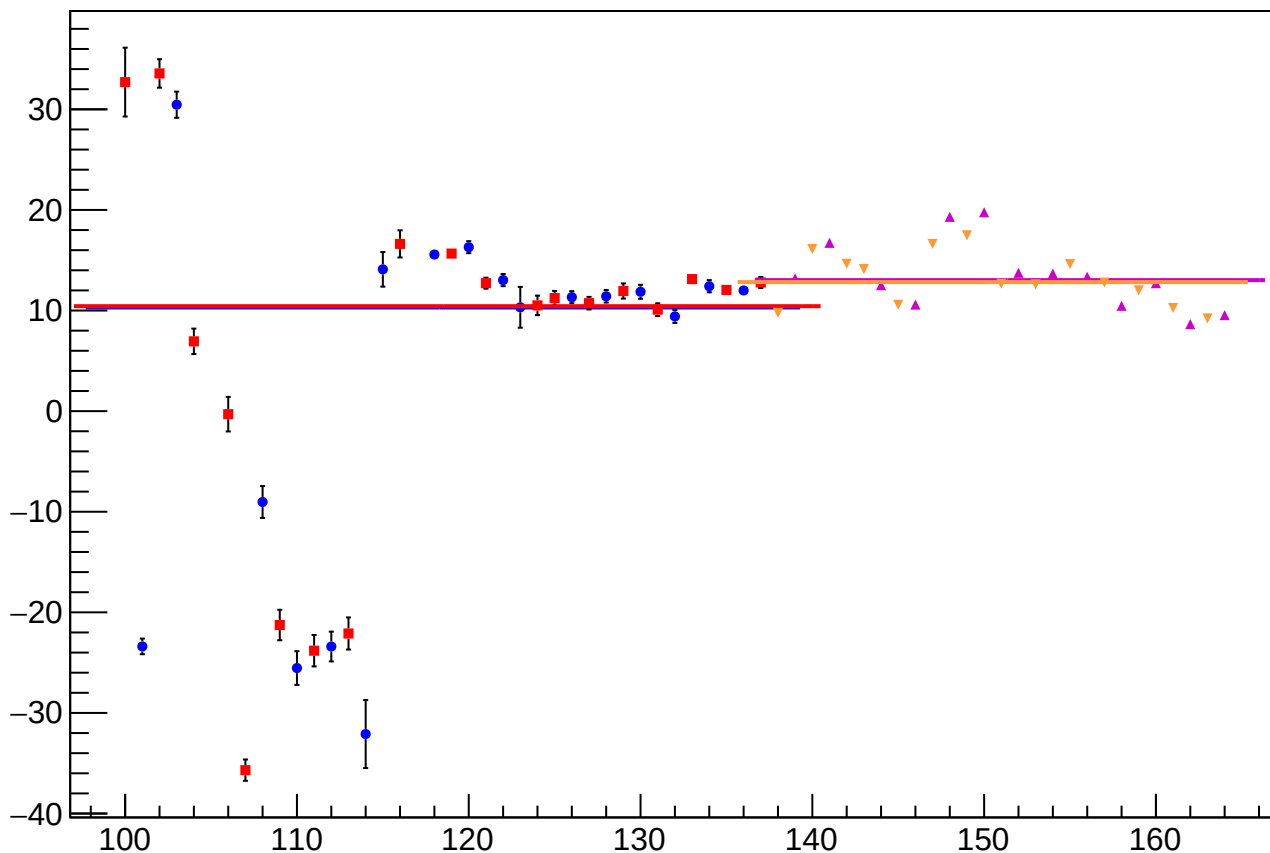
Right:  $3.437 \pm 0.185$   $\chi^2/\text{NDF}$ : 511.7/35

In:  $-7.254 \pm 0.090$   $\chi^2/\text{NDF}$ : 3214.7/29

Out:  $-6.459 \pm 0.092$   $\chi^2/\text{NDF}$ : 3565.4/32

All:  $-6.865 \pm 0.065$   $\chi^2/\text{NDF}$ : 6817.9/62

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: 12.827+/-0.084  $\chi^2/\text{NDF}$ : 939.1/13

Right Out: 10.433+/-0.160  $\chi^2/\text{NDF}$ : 3828.5/18

Left In: 13.024+/-0.085  $\chi^2/\text{NDF}$ : 1564.8/12

Left: 12.924+/-0.060  $\chi^2/\text{NDF}$ : 2506.6/26

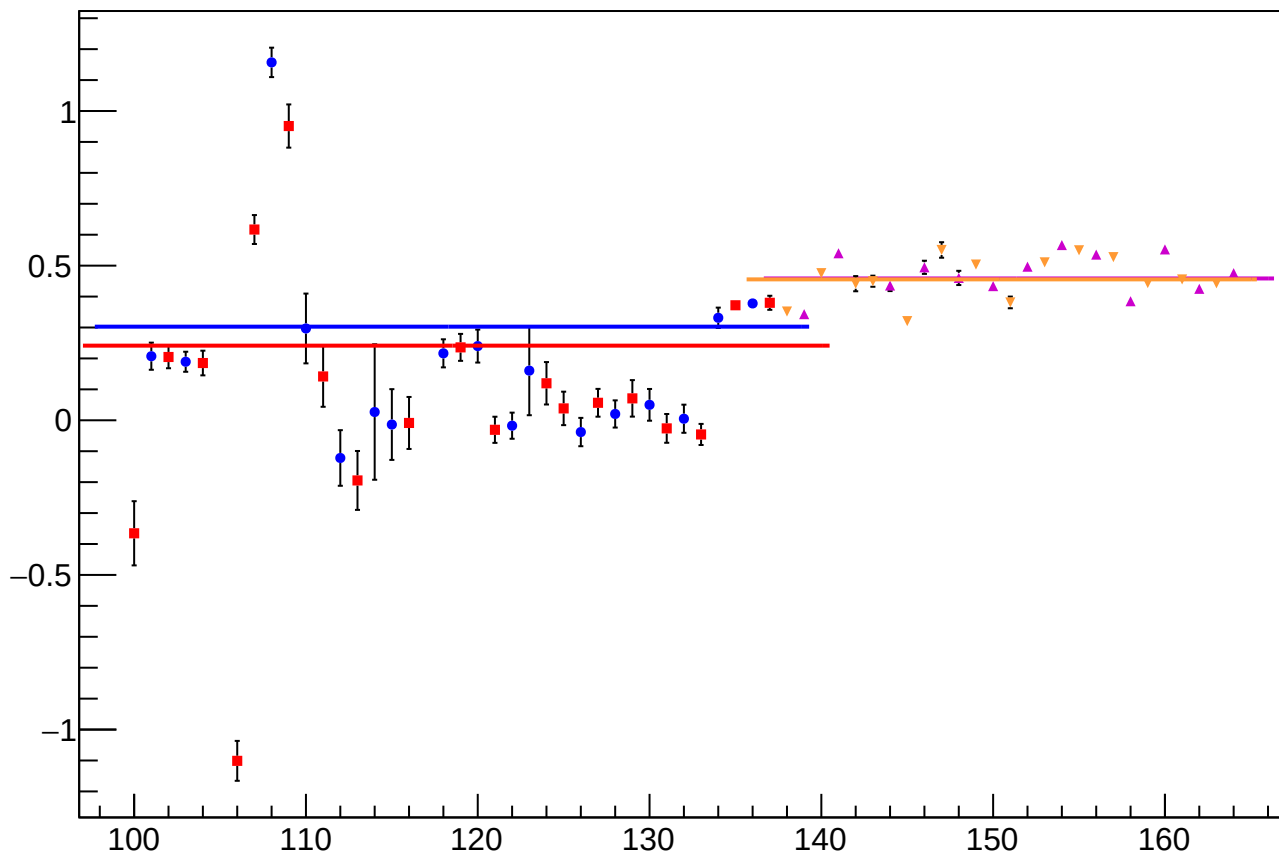
Right: 10.368+/-0.112  $\chi^2/\text{NDF}$ : 7541.1/35

In: 12.410+/-0.075  $\chi^2/\text{NDF}$ : 5509.8/29

Out: 12.311+/-0.074  $\chi^2/\text{NDF}$ : 4943.4/32

All: 12.360+/-0.053  $\chi^2/\text{NDF}$ : 10454.1/62

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: 0.456+/-0.004  $\chi^2/\text{NDF}$ :299.1/13

Right Out: 0.241+/-0.008  $\chi^2/\text{NDF}$ : 986.7/18

Left In: 0.459+/-0.004  $\chi^2/\text{NDF}$ :418.8/12

Left: 0.457+/-0.003  $\chi^2/\text{NDF}$ : 718.2/26

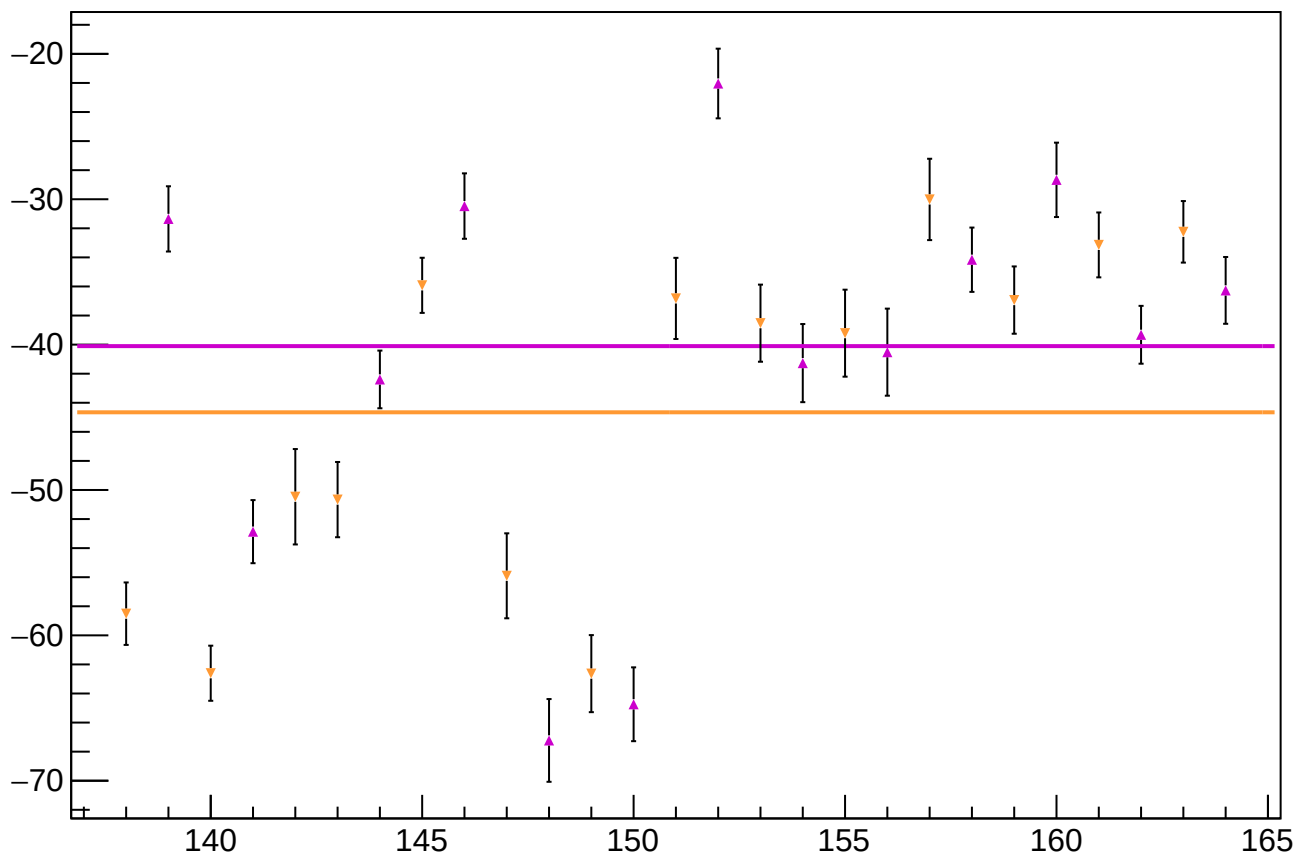
Right: 0.273+/-0.006  $\chi^2/\text{NDF}$ : 1660.4/35

In: 0.432+/-0.003  $\chi^2/\text{NDF}$ :1365.9/29

Out: 0.420+/-0.003  $\chi^2/\text{NDF}$ :1817.0/32

All: 0.426+/-0.002  $\chi^2/\text{NDF}$ : 3189.3/62

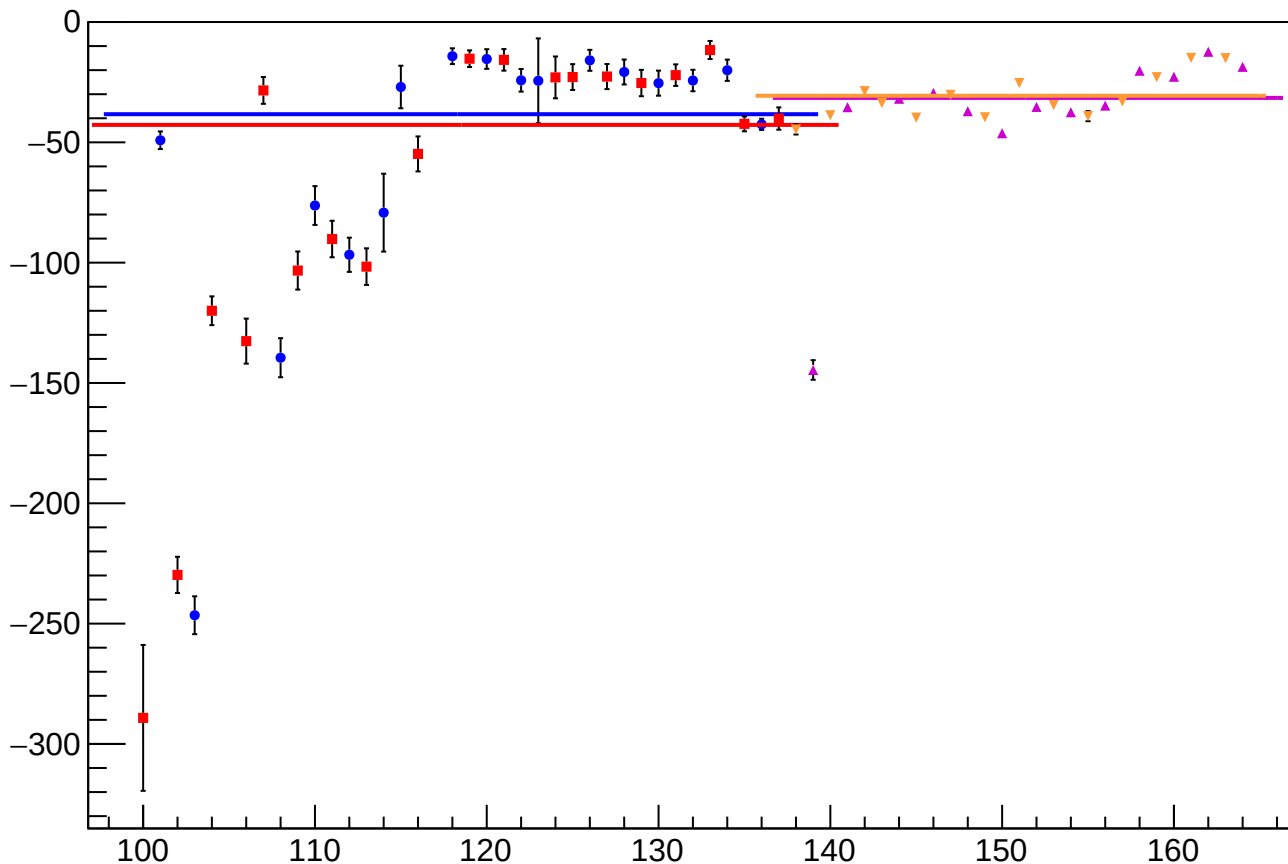
reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -44.656+/-0.646  $\chi^2/\text{NDF}$ :337.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.103+/-0.650  $\chi^2/\text{NDF}$ :341.6/12

Left: -42.395+/-0.458  $\chi^2/\text{NDF}$ : 704.1/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -40.103+/-0.650  $\chi^2/\text{NDF}$ :341.6/12  
 Out: -44.656+/-0.646  $\chi^2/\text{NDF}$ :337.9/13  
 All: -42.395+/-0.458  $\chi^2/\text{NDF}$ : 704.1/26

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: -30.641 $\pm$ 0.455  $\chi^2/\text{NDF}$ : 390.3/13

Right Out: -42.756 $\pm$ 1.211  $\chi^2/\text{NDF}$ : 1341.6/18

Left In: -31.532 $\pm$ 0.464  $\chi^2/\text{NDF}$ : 1160.1/12

Left: -31.078 $\pm$ 0.325  $\chi^2/\text{NDF}$ : 1552.3/26

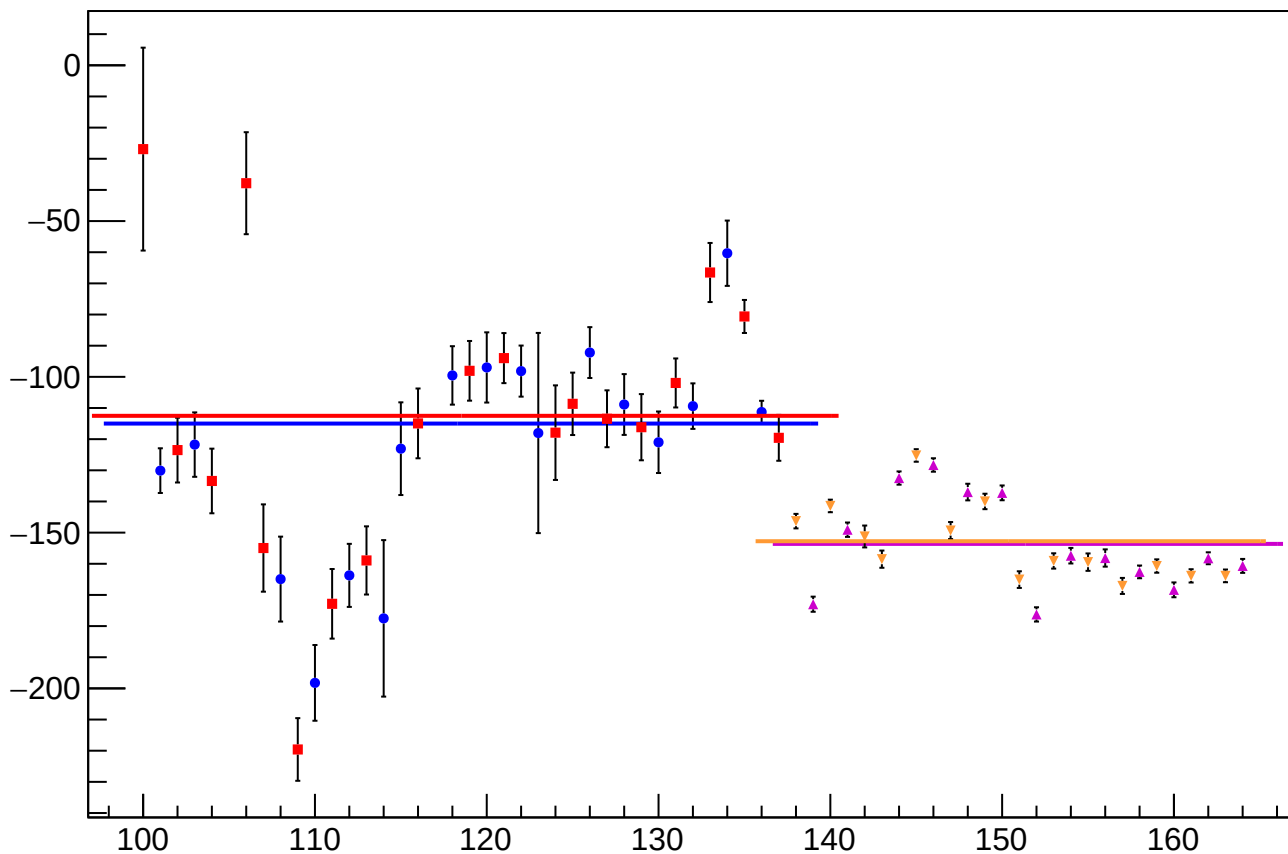
Right: -40.393 $\pm$ 0.829  $\chi^2/\text{NDF}$ : 2481.4/35

In: -32.498 $\pm$ 0.429  $\chi^2/\text{NDF}$ : 2323.2/29

Out: -32.141 $\pm$ 0.426  $\chi^2/\text{NDF}$ : 1819.7/32

All: -32.318 $\pm$ 0.302  $\chi^2/\text{NDF}$ : 4143.3/62

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:  $-152.761 \pm 0.639$   $\chi^2/\text{NDF}: 393.3/13$

Right Out:  $-112.510 \pm 2.207$   $\chi^2/\text{NDF}: 273.1/18$

Left In:  $-153.616 \pm 0.635$   $\chi^2/\text{NDF}: 566.4/12$

Left:  $-153.191 \pm 0.451$   $\chi^2/\text{NDF}: 960.6/26$

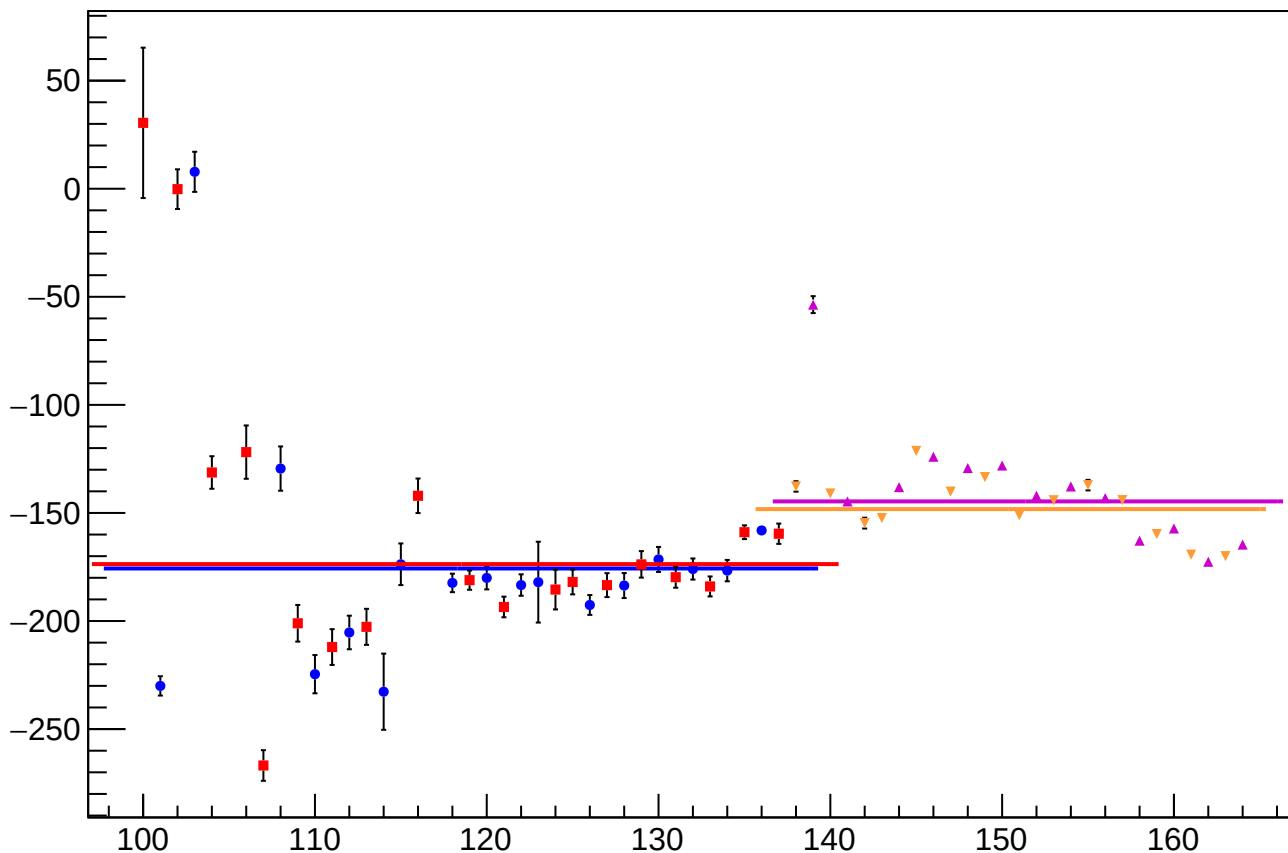
Right:  $-113.831 \pm 1.511$   $\chi^2/\text{NDF}: 415.6/35$

In:  $-150.302 \pm 0.607$   $\chi^2/\text{NDF}: 1025.7/29$

Out:  $-149.642 \pm 0.614$   $\chi^2/\text{NDF}: 973.3/32$

All:  $-149.976 \pm 0.432$   $\chi^2/\text{NDF}: 1999.7/62$

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:  $-148.232 \pm 0.531$   $\chi^2/\text{NDF}$ : 750.1/13

Right Out:  $-173.666 \pm 1.356$   $\chi^2/\text{NDF}$ : 737.7/18

Left In:  $-144.660 \pm 0.536$   $\chi^2/\text{NDF}$ : 1396.4/12

Left:  $-146.465 \pm 0.377$   $\chi^2/\text{NDF}$ : 2168.9/26

Right:  $-174.749 \pm 0.926$   $\chi^2/\text{NDF}$ : 1431.8/35

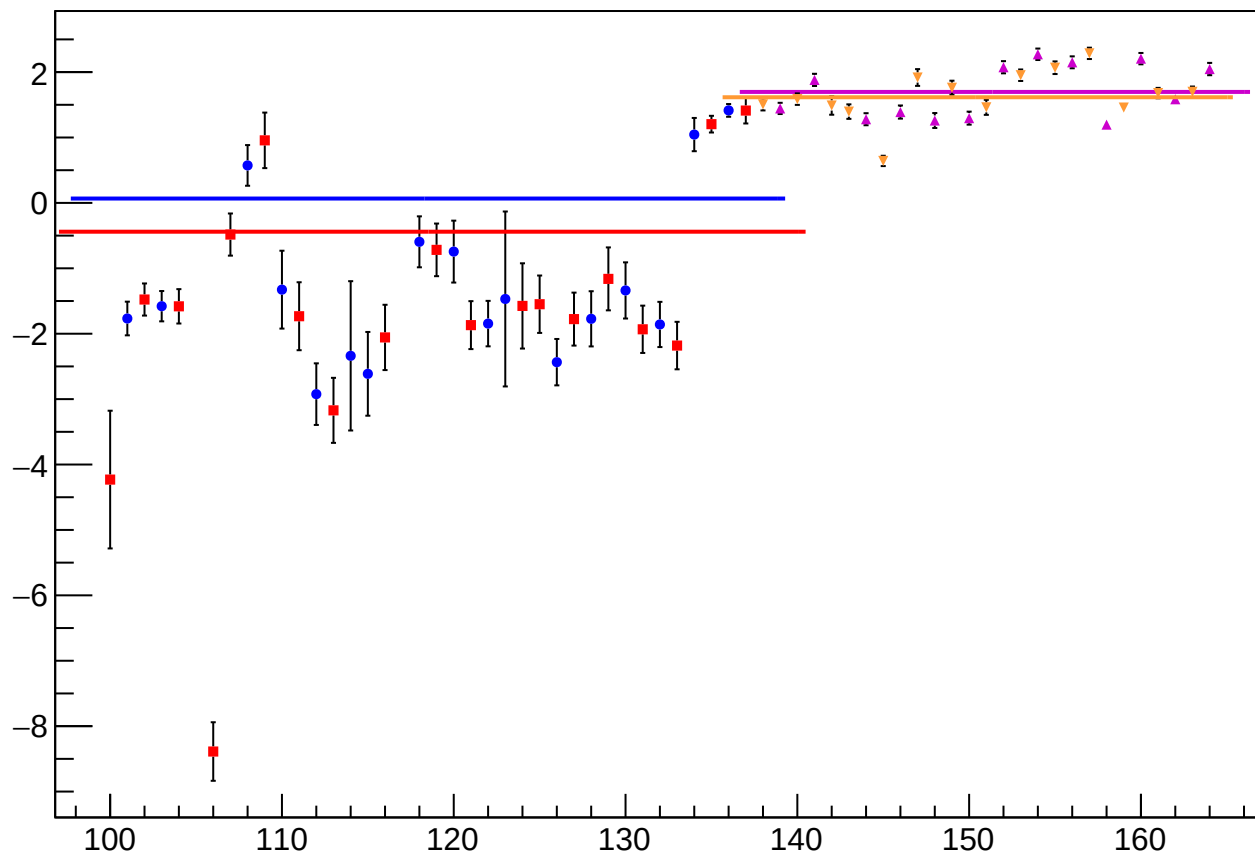
In:  $-149.373 \pm 0.494$   $\chi^2/\text{NDF}$ : 2597.8/29

Out:  $-151.609 \pm 0.494$   $\chi^2/\text{NDF}$ : 1793.0/32

All:  $-150.491 \pm 0.349$   $\chi^2/\text{NDF}$ : 4401.0/62



reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.067  $\chi^2$ /NDF: 526.1/16

Left Out: 1.615 $\pm$ 0.025  $\chi^2$ /NDF:269.0/13

Right Out: -0.440 $\pm$ 0.071  $\chi^2$ /NDF: 754.9/18

Left In: 1.697 $\pm$ 0.025  $\chi^2$ /NDF:254.1/12

Left: 1.656 $\pm$ 0.018  $\chi^2$ /NDF: 528.4/26

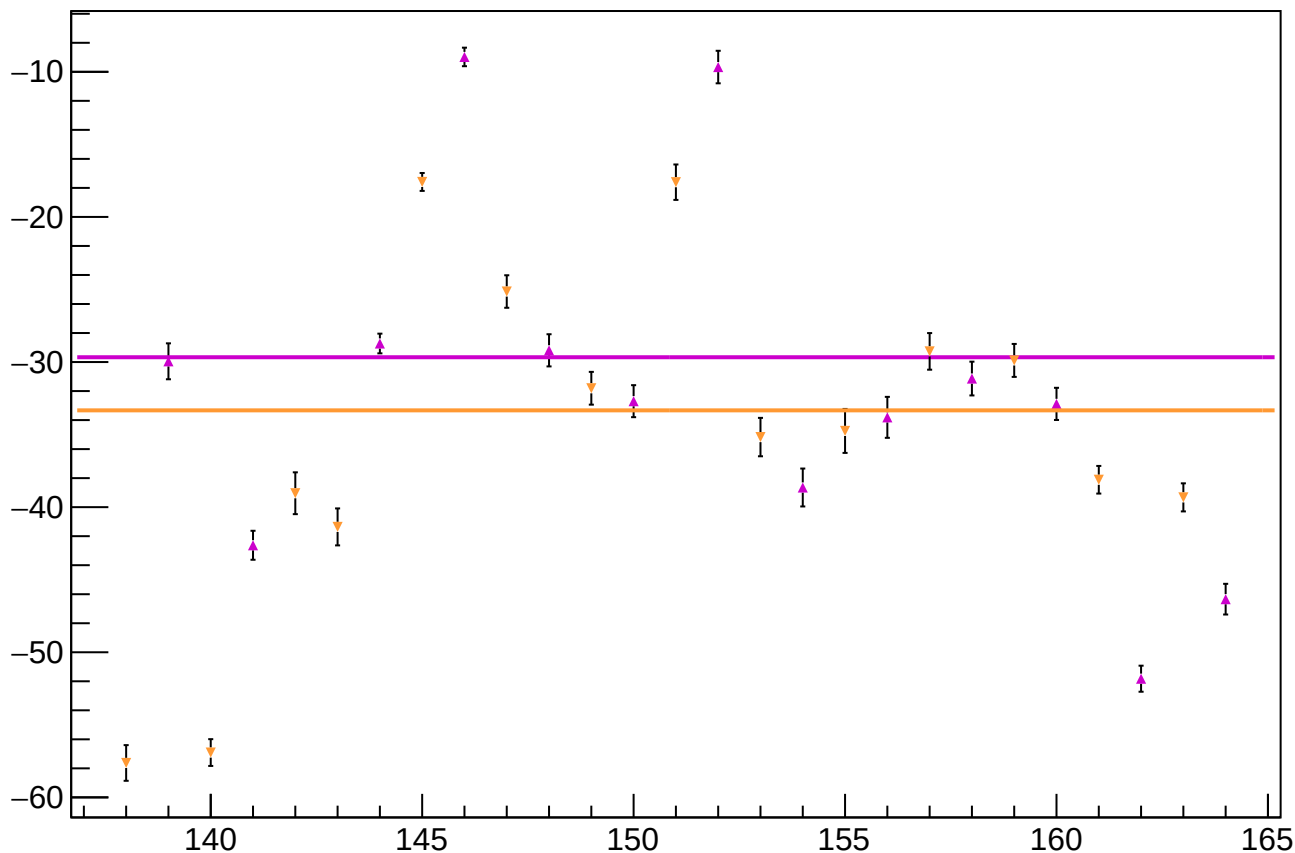
Right: -0.172 $\pm$ 0.049  $\chi^2$ /NDF: 1308.0/35

In: 1.499 $\pm$ 0.023  $\chi^2$ /NDF:1300.8/29

Out: 1.390 $\pm$ 0.024  $\chi^2$ /NDF:1768.0/32

All: 1.445 $\pm$ 0.017  $\chi^2$ /NDF: 3079.7/62

reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out:  $-33.329 \pm 0.284$   $\chi^2/\text{NDF}$ : 2057.0/13

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

Left In:  $-29.669 \pm 0.272$   $\chi^2/\text{NDF}$ : 2470.2/12

Left:  $-31.421 \pm 0.197$   $\chi^2/\text{NDF}$ : 4613.7/26

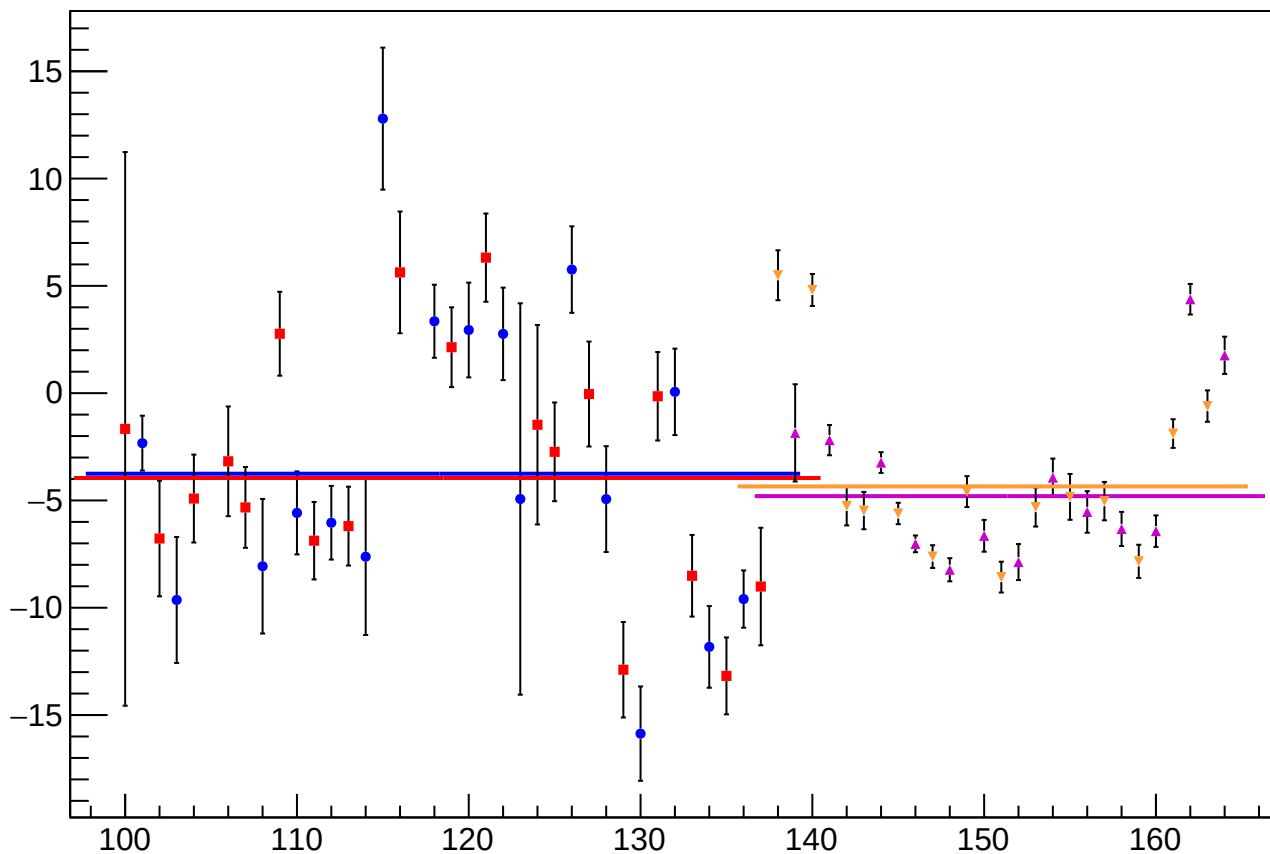
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-29.669 \pm 0.272$   $\chi^2/\text{NDF}$ : 2470.2/12

Out:  $-33.329 \pm 0.284$   $\chi^2/\text{NDF}$ : 2057.0/13

All:  $-31.421 \pm 0.197$   $\chi^2/\text{NDF}$ : 4613.7/26

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:  $-4.347 \pm 0.198$   $\chi^2/\text{NDF}: 366.2/13$

Right Out:  $-3.954 \pm 0.507$   $\chi^2/\text{NDF}: 123.3/18$

Left In:  $-4.799 \pm 0.186$   $\chi^2/\text{NDF}: 351.1/12$

Left:  $-4.586 \pm 0.136$   $\chi^2/\text{NDF}: 720.1/26$

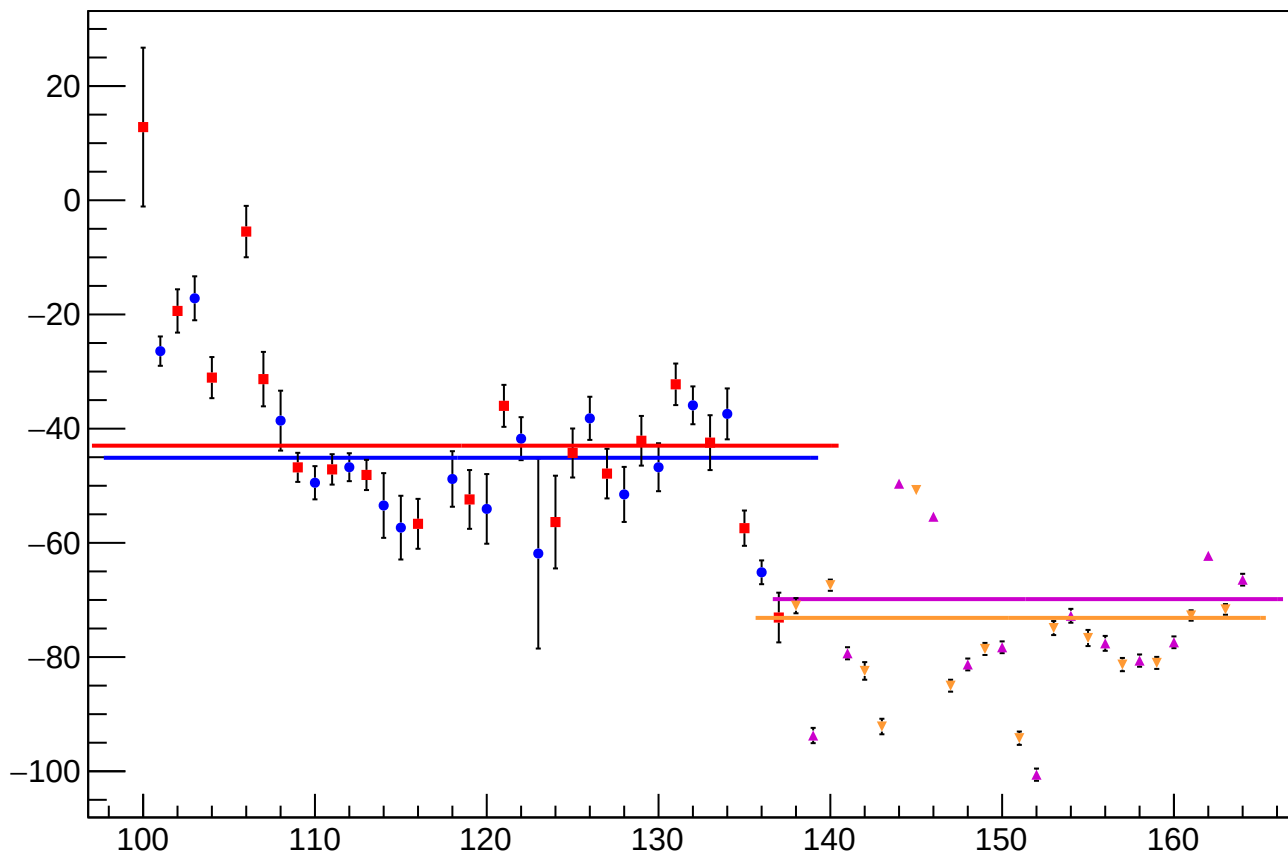
Right:  $-3.852 \pm 0.354$   $\chi^2/\text{NDF}: 288.7/35$

In:  $-4.669 \pm 0.174$   $\chi^2/\text{NDF}: 520.3/29$

Out:  $-4.295 \pm 0.184$   $\chi^2/\text{NDF}: 490.0/32$

All:  $-4.492 \pm 0.127$   $\chi^2/\text{NDF}: 1012.6/62$

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

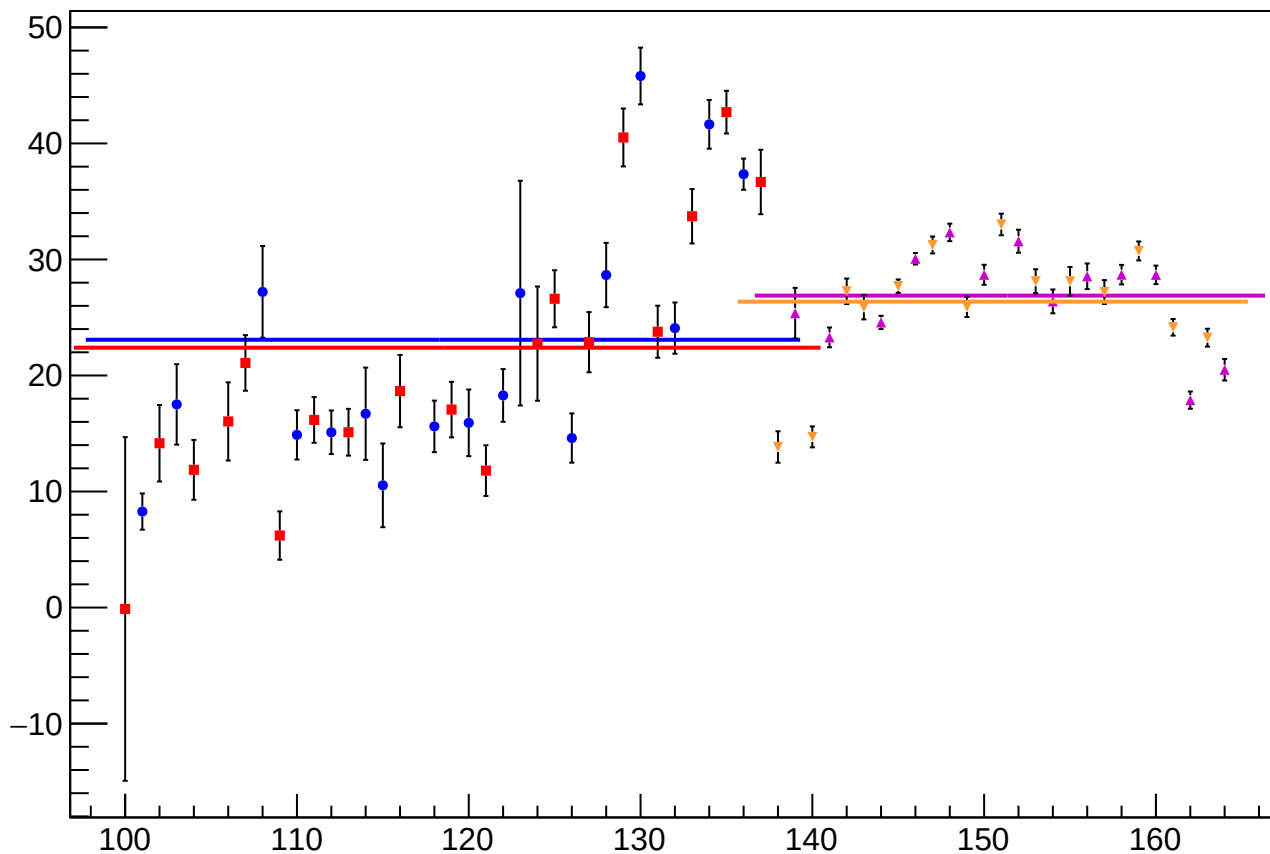


Right In:  $-45.101 \pm 0.881$   $\chi^2/\text{NDF}$ : 229.9/16  
 Left Out:  $-73.138 \pm 0.282$   $\chi^2/\text{NDF}$ : 2032.2/13  
 Right Out:  $-42.979 \pm 0.877$   $\chi^2/\text{NDF}$ : 248.9/18  
 Left In:  $-69.854 \pm 0.266$   $\chi^2/\text{NDF}$ : 3018.2/12

Left:  $-71.404 \pm 0.194$   $\chi^2/\text{NDF}$ : 5122.1/26  
 Right:  $-44.036 \pm 0.622$   $\chi^2/\text{NDF}$ : 481.6/35  
 In:  $-67.778 \pm 0.255$   $\chi^2/\text{NDF}$ : 3971.5/29  
 Out:  $-70.317 \pm 0.268$   $\chi^2/\text{NDF}$ : 3352.1/32

All:  $-68.983 \pm 0.185$   $\chi^2/\text{NDF}$ : 7370.7/62

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.079 $\pm$ 0.556  $\chi^2$ /NDF: 461.1/16

Left Out: 26.364 $\pm$ 0.232  $\chi^2$ /NDF: 415.0/13

Right Out: 22.397 $\pm$ 0.572  $\chi^2$ /NDF: 370.3/18

Left In: 26.884 $\pm$ 0.221  $\chi^2$ /NDF: 360.5/12

Left: 26.637 $\pm$ 0.160  $\chi^2$ /NDF: 778.1/26

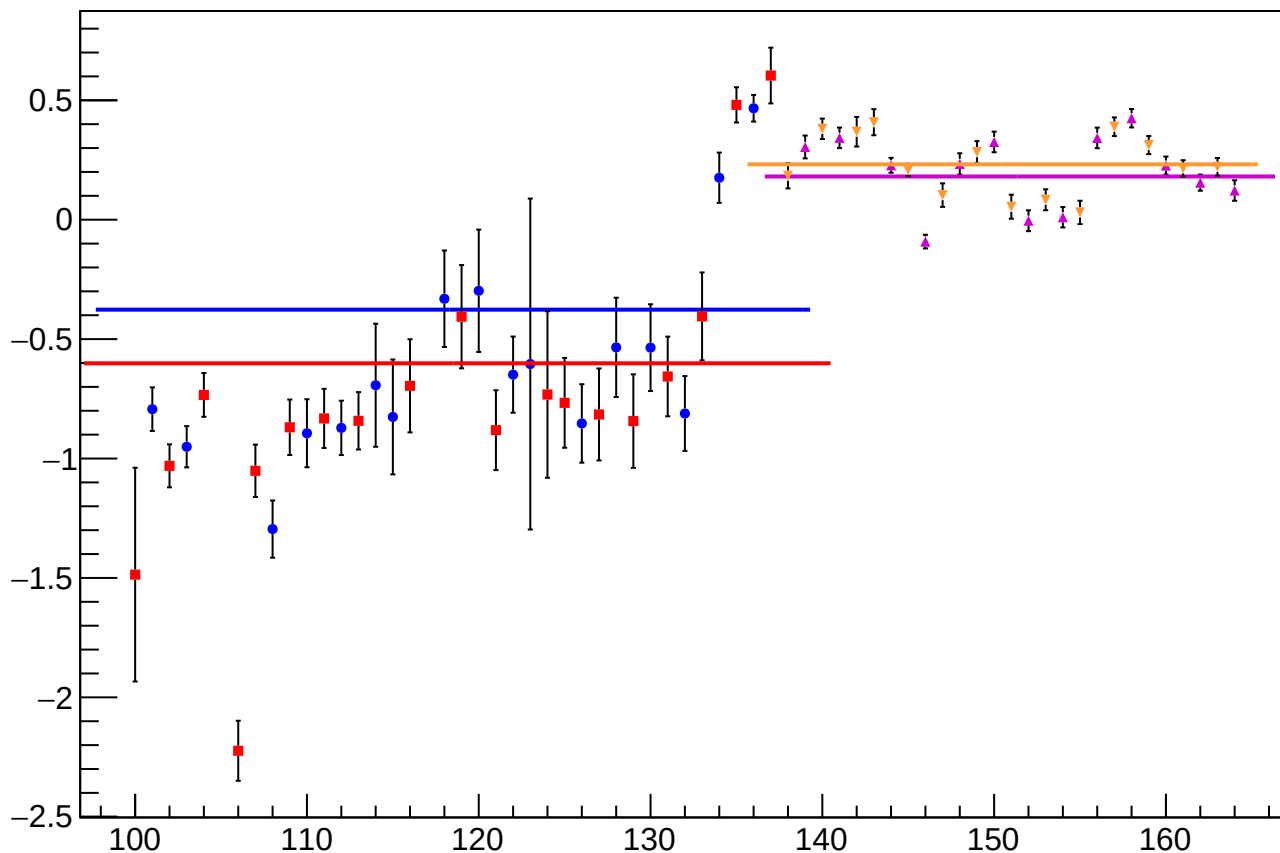
Right: 22.748 $\pm$ 0.399  $\chi^2$ /NDF: 832.1/35

In: 26.366 $\pm$ 0.205  $\chi^2$ /NDF: 862.1/29

Out: 25.804 $\pm$ 0.215  $\chi^2$ /NDF: 826.6/32

All: 26.098 $\pm$ 0.148  $\chi^2$ /NDF: 1692.2/62

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:  $0.232 \pm 0.011$   $\chi^2/\text{NDF}$ : 99.0/13

Right Out:  $-0.601 \pm 0.030$   $\chi^2/\text{NDF}$ : 555.6/18

Left In:  $0.181 \pm 0.011$   $\chi^2/\text{NDF}$ : 218.3/12

Left:  $0.206 \pm 0.008$   $\chi^2/\text{NDF}$ : 328.1/26

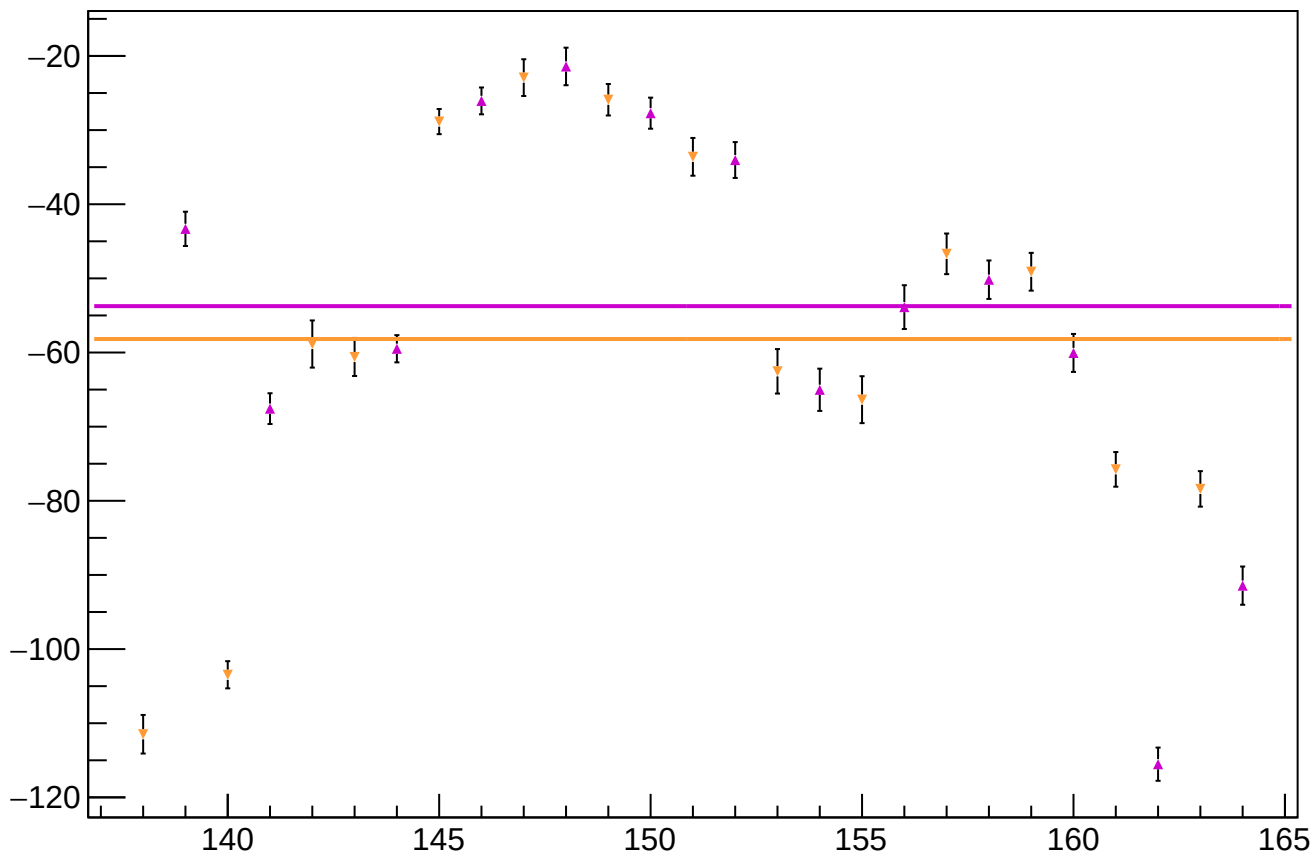
Right:  $-0.489 \pm 0.021$   $\chi^2/\text{NDF}$ : 1020.5/35

In:  $0.118 \pm 0.010$   $\chi^2/\text{NDF}$ : 960.4/29

Out:  $0.133 \pm 0.010$   $\chi^2/\text{NDF}$ : 1326.3/32

All:  $0.125 \pm 0.007$   $\chi^2/\text{NDF}$ : 2287.9/62

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



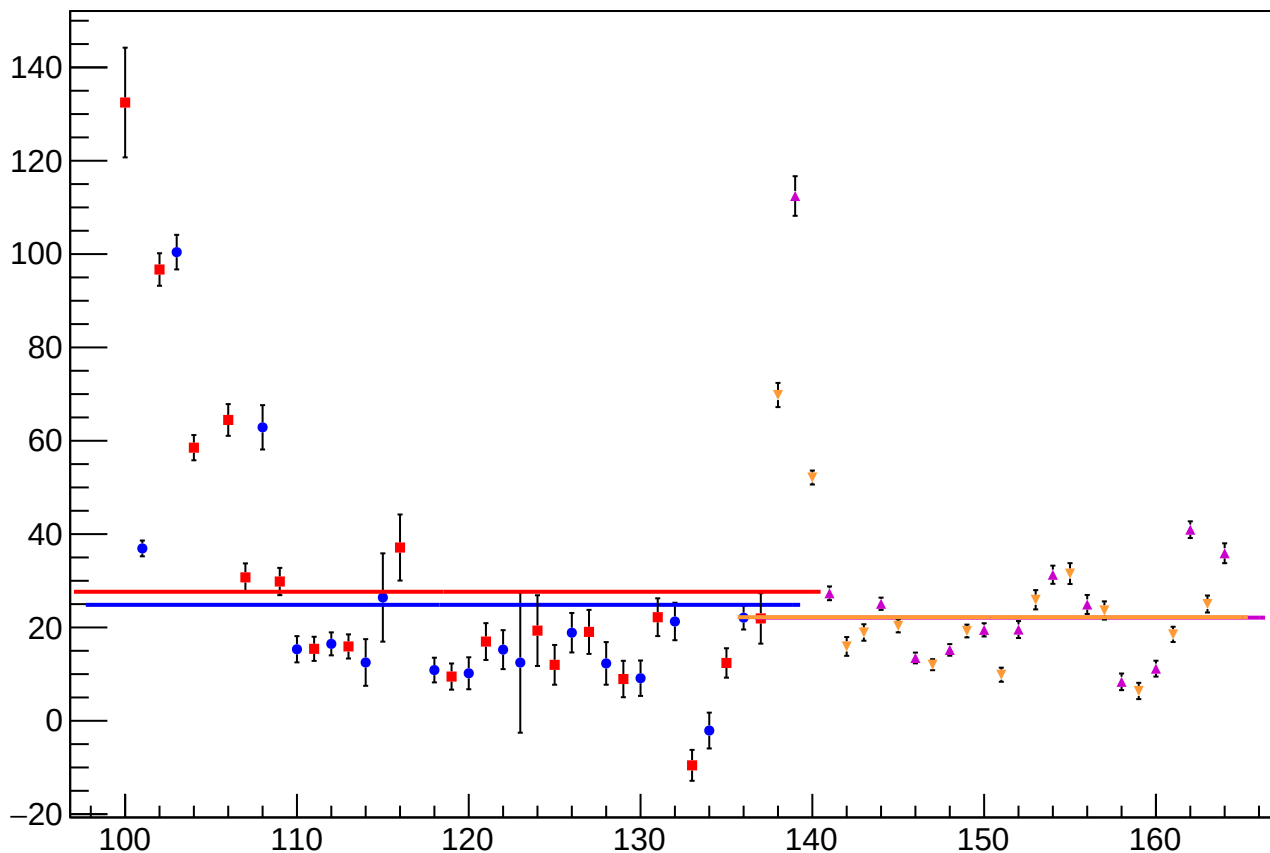
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.179+/-0.640  $\chi^2/\text{NDF}$ :2023.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -53.745+/-0.637  $\chi^2/\text{NDF}$ :1690.5/12

Left: -55.950+/-0.452  $\chi^2/\text{NDF}$ : 3737.7/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -53.745+/-0.637  $\chi^2/\text{NDF}$ :1690.5/12  
 Out: -58.179+/-0.640  $\chi^2/\text{NDF}$ :2023.2/13

All: -55.950+/-0.452  $\chi^2/\text{NDF}$ : 3737.7/26

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 24.848 $\pm$ 0.801  $\chi^2$ /NDF: 690.8/16

Left Out: 22.202 $\pm$ 0.444  $\chi^2$ /NDF:1006.3/13

Right Out: 27.648 $\pm$ 0.810  $\chi^2$ /NDF: 1009.2/18

Left In: 22.103 $\pm$ 0.447  $\chi^2$ /NDF:842.0/12

Left: 22.153 $\pm$ 0.315  $\chi^2$ /NDF: 1848.3/26

Right: 26.231 $\pm$ 0.570  $\chi^2$ /NDF: 1706.0/35

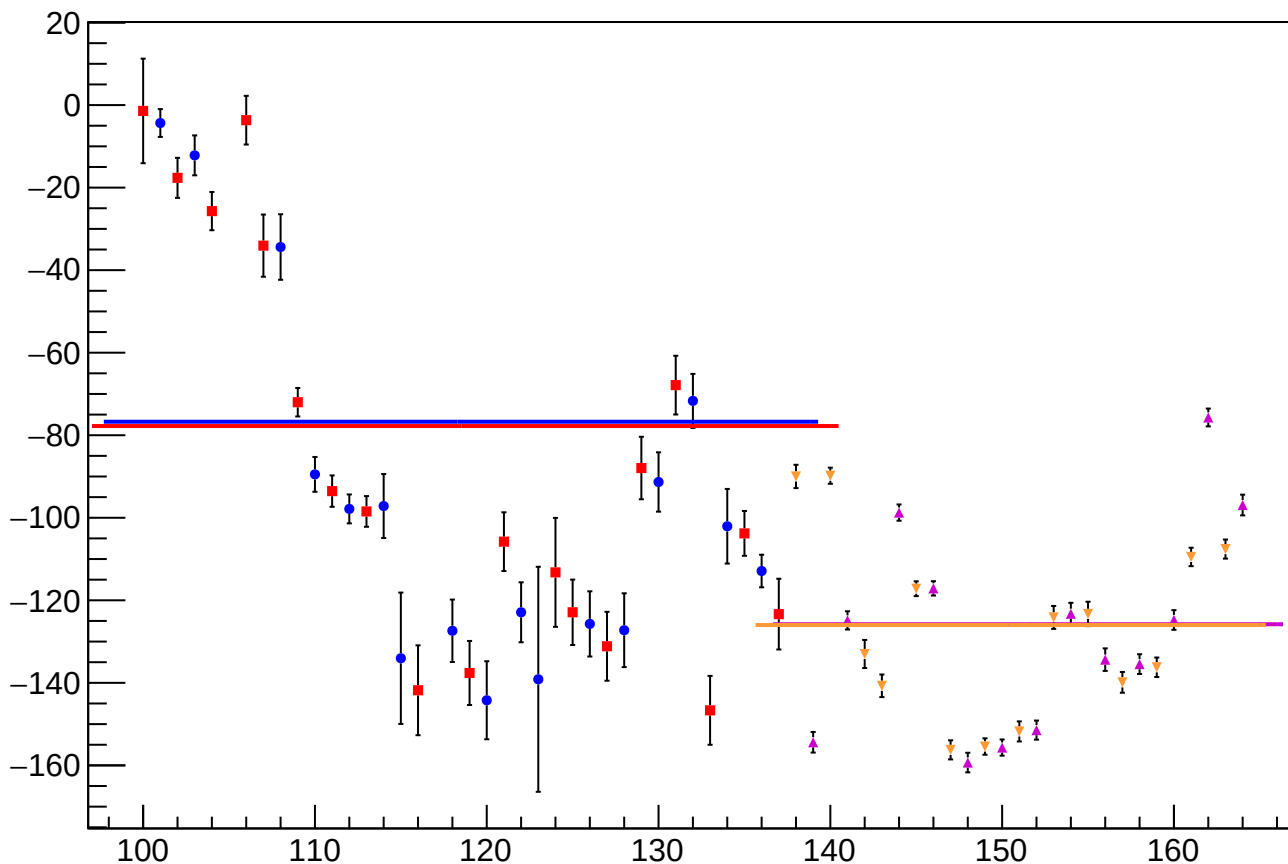
In: 22.756 $\pm$ 0.391  $\chi^2$ /NDF:1541.8/29

Out: 23.461 $\pm$ 0.390  $\chi^2$ /NDF:2050.1/32

All: 23.109 $\pm$ 0.276  $\chi^2$ /NDF: 3593.5/62



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:  $-125.989 \pm 0.633$   $\chi^2/\text{NDF}$ : 1234.9/13

Right Out:  $-77.773 \pm 1.352$   $\chi^2/\text{NDF}$ : 871.8/18

Left In:  $-125.800 \pm 0.623$   $\chi^2/\text{NDF}$ : 1599.6/12

Left:  $-125.893 \pm 0.444$   $\chi^2/\text{NDF}$ : 2834.5/26

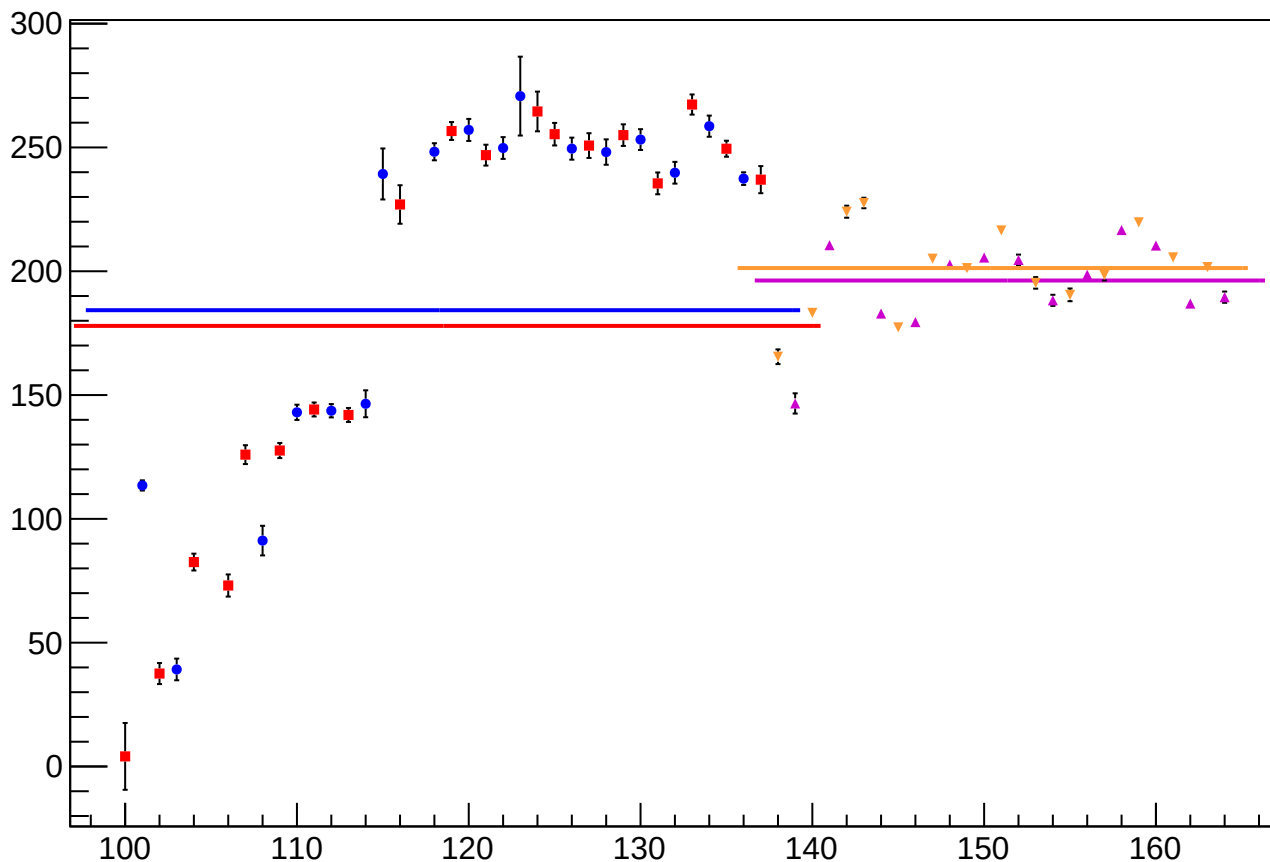
Right:  $-77.273 \pm 0.977$   $\chi^2/\text{NDF}$ : 1914.1/35

In:  $-117.815 \pm 0.570$   $\chi^2/\text{NDF}$ : 3652.6/29

Out:  $-117.326 \pm 0.573$   $\chi^2/\text{NDF}$ : 3149.6/32

All:  $-117.572 \pm 0.404$   $\chi^2/\text{NDF}$ : 6802.5/62

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: 201.291 $\pm$ 0.524  $\chi^2$ /NDF: 908.9/13

Right Out: 177.930 $\pm$ 0.924  $\chi^2$ /NDF: 6330.9/18

Left In: 196.263 $\pm$ 0.524  $\chi^2$ /NDF: 707.5/12

Left: 198.776 $\pm$ 0.371  $\chi^2$ /NDF: 1662.4/26

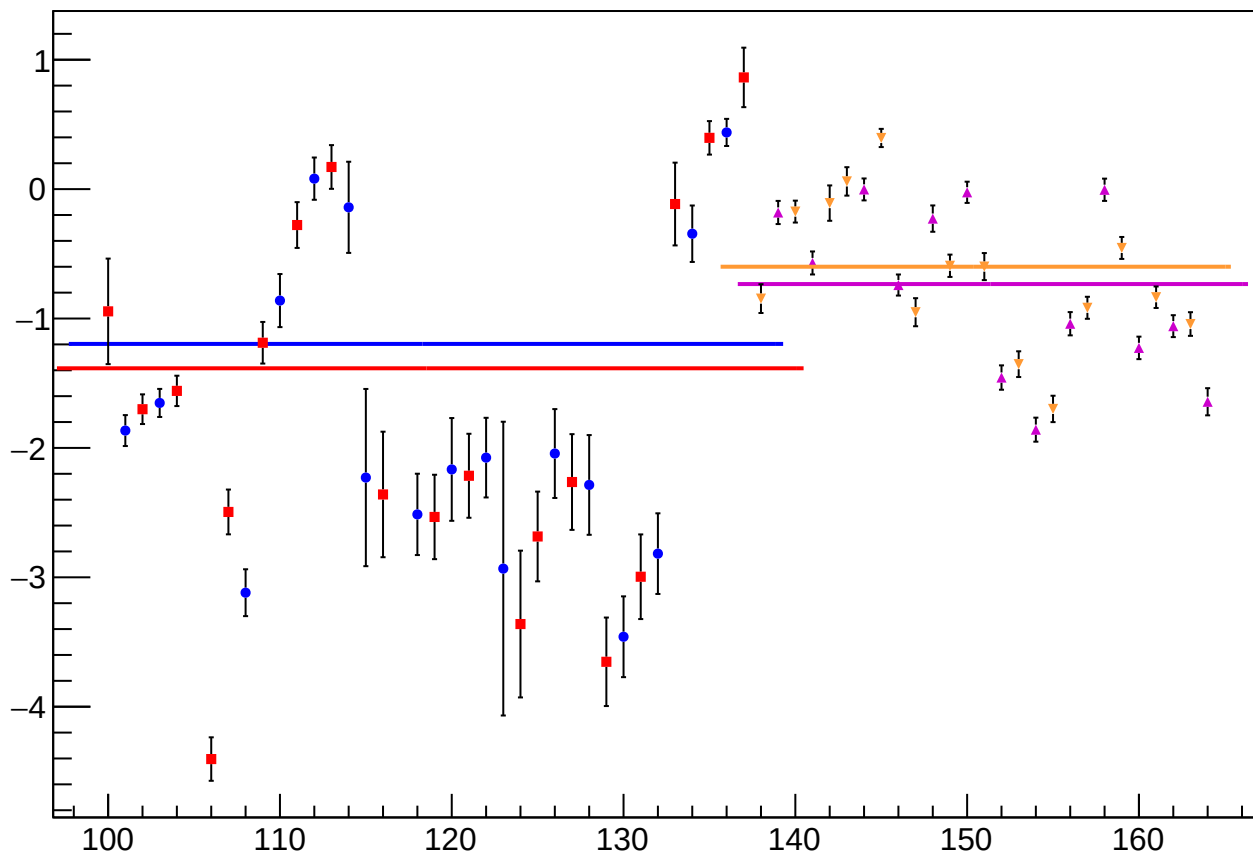
Right: 181.136 $\pm$ 0.650  $\chi^2$ /NDF: 11755.7/35

In: 193.295 $\pm$ 0.454  $\chi^2$ /NDF: 6238.1/29

Out: 195.605 $\pm$ 0.456  $\chi^2$ /NDF: 7723.5/32

All: 194.447 $\pm$ 0.322  $\chi^2$ /NDF: 13974.4/62

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:  $-0.600 \pm 0.025$   $\chi^2/\text{NDF}$ : 511.8/13

Right Out:  $-1.385 \pm 0.046$   $\chi^2/\text{NDF}$ : 924.4/18

Left In:  $-0.734 \pm 0.025$   $\chi^2/\text{NDF}$ : 626.7/12

Left:  $-0.667 \pm 0.018$   $\chi^2/\text{NDF}$ : 1153.0/26

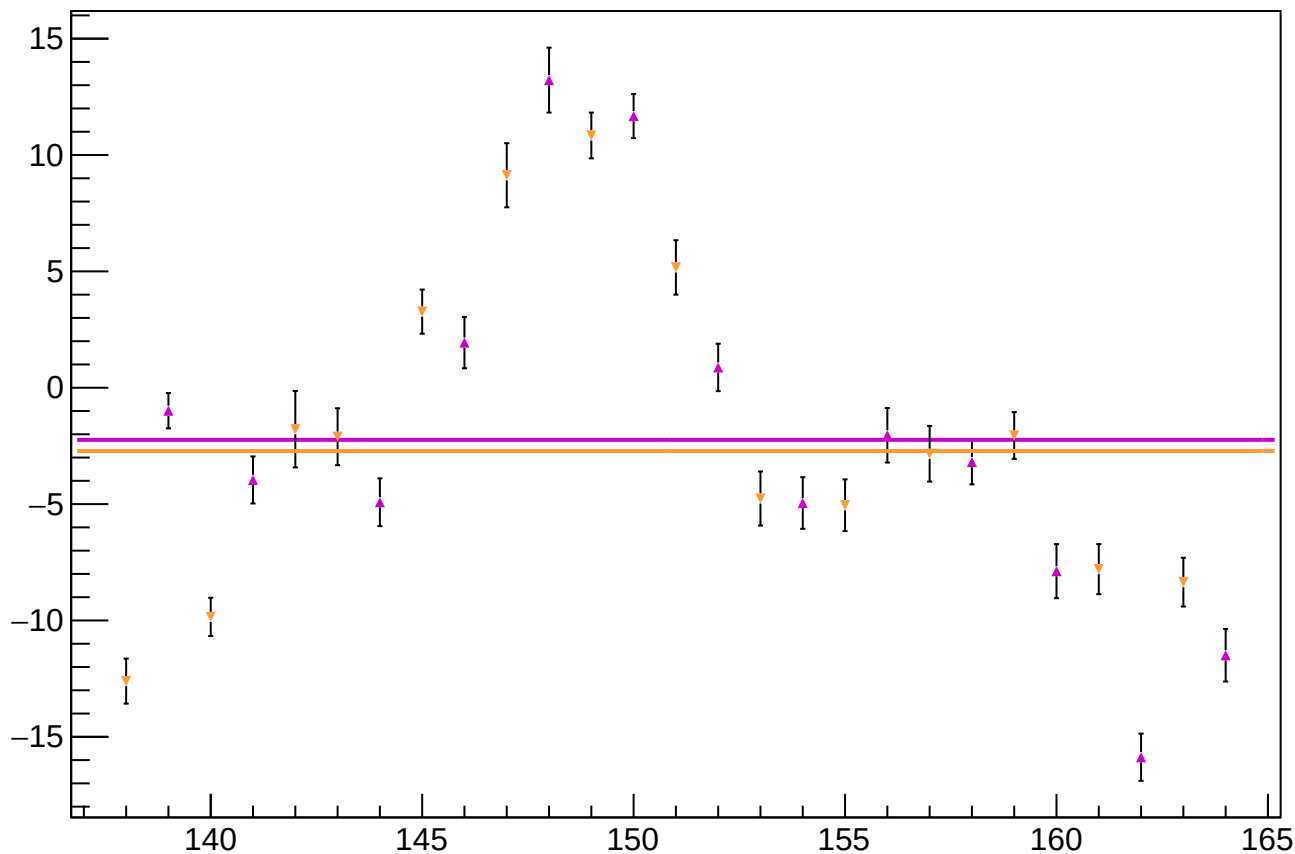
Right:  $-1.295 \pm 0.033$   $\chi^2/\text{NDF}$ : 1555.6/35

In:  $-0.830 \pm 0.022$   $\chi^2/\text{NDF}$ : 1323.0/29

Out:  $-0.779 \pm 0.022$   $\chi^2/\text{NDF}$ : 1663.0/32

All:  $-0.805 \pm 0.016$   $\chi^2/\text{NDF}$ : 2988.7/62

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: -2.717+/-0.289  $\chi^2/\text{NDF}$ : 588.2/13

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

Left In: -2.237+/-0.286  $\chi^2/\text{NDF}$ : 653.5/12

Left: -2.475+/-0.203  $\chi^2/\text{NDF}$ : 1243.1/26

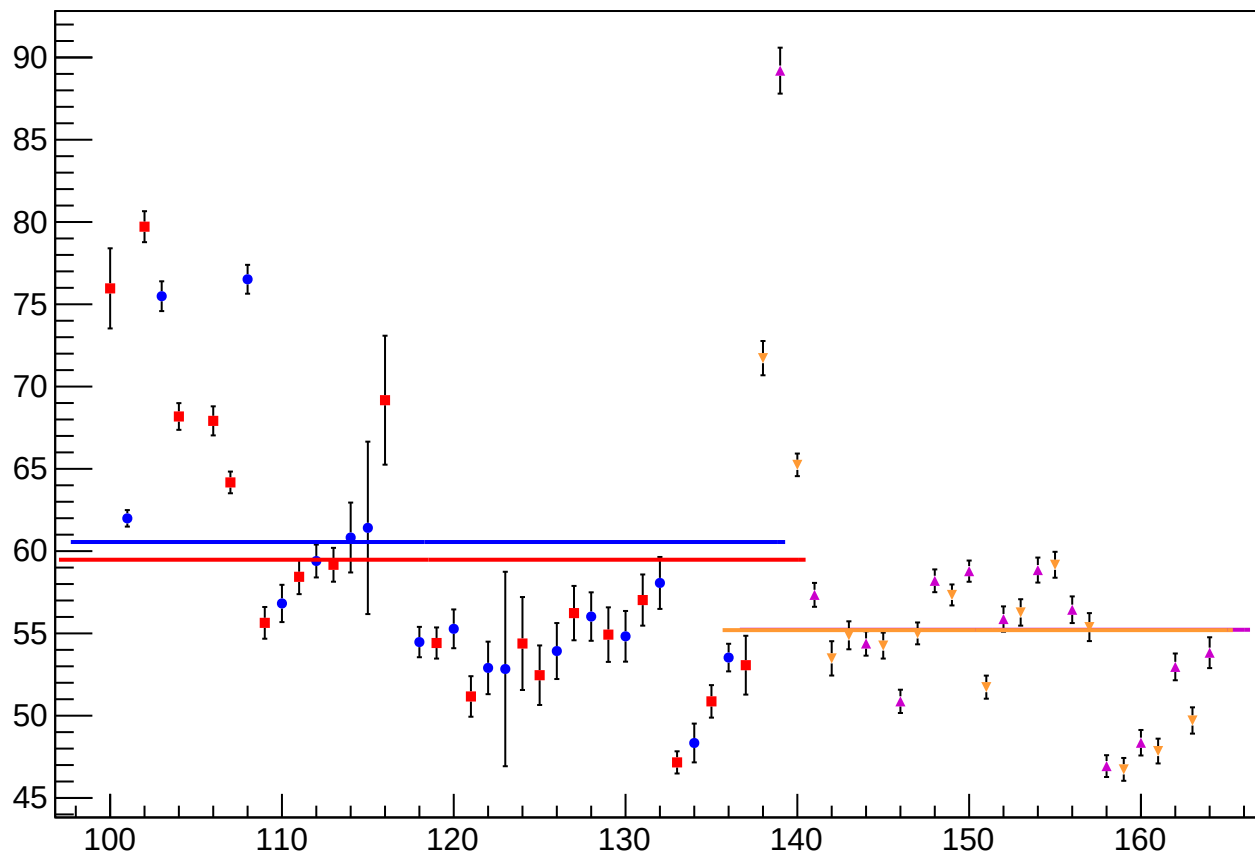
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.237+/-0.286  $\chi^2/\text{NDF}$ : 653.5/12

Out: -2.717+/-0.289  $\chi^2/\text{NDF}$ : 588.2/13

All: -2.475+/-0.203  $\chi^2/\text{NDF}$ : 1243.1/26

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $60.554 \pm 0.262$   $\chi^2/\text{NDF}: 930.8/16$

Left Out:  $55.199 \pm 0.206$   $\chi^2/\text{NDF}: 824.5/13$

Right Out:  $59.477 \pm 0.248$   $\chi^2/\text{NDF}: 1317.0/18$

Left In:  $55.221 \pm 0.212$   $\chi^2/\text{NDF}: 959.2/12$

Left:  $55.210 \pm 0.148$   $\chi^2/\text{NDF}: 1783.7/26$

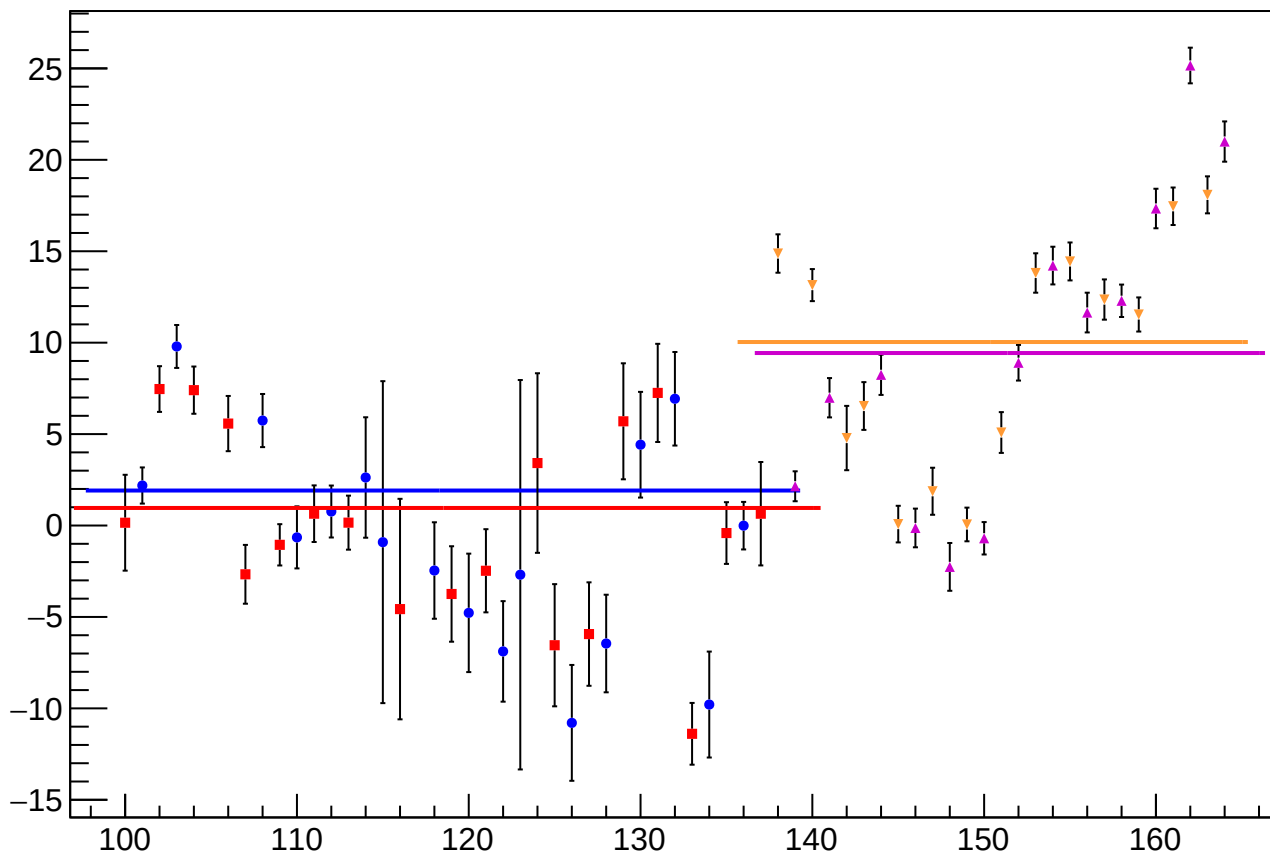
Right:  $59.987 \pm 0.180$   $\chi^2/\text{NDF}: 2256.7/35$

In:  $57.335 \pm 0.165$   $\chi^2/\text{NDF}: 2140.9/29$

Out:  $56.942 \pm 0.158$   $\chi^2/\text{NDF}: 2318.0/32$

All:  $57.131 \pm 0.114$   $\chi^2/\text{NDF}: 4461.8/62$

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:  $10.036 \pm 0.284$   $\chi^2/\text{NDF}: 479.3/13$

Right Out:  $0.960 \pm 0.424$   $\chi^2/\text{NDF}: 149.5/18$

Left In:  $9.434 \pm 0.280$   $\chi^2/\text{NDF}: 838.0/12$

Left:  $9.730 \pm 0.199$   $\chi^2/\text{NDF}: 1319.6/26$

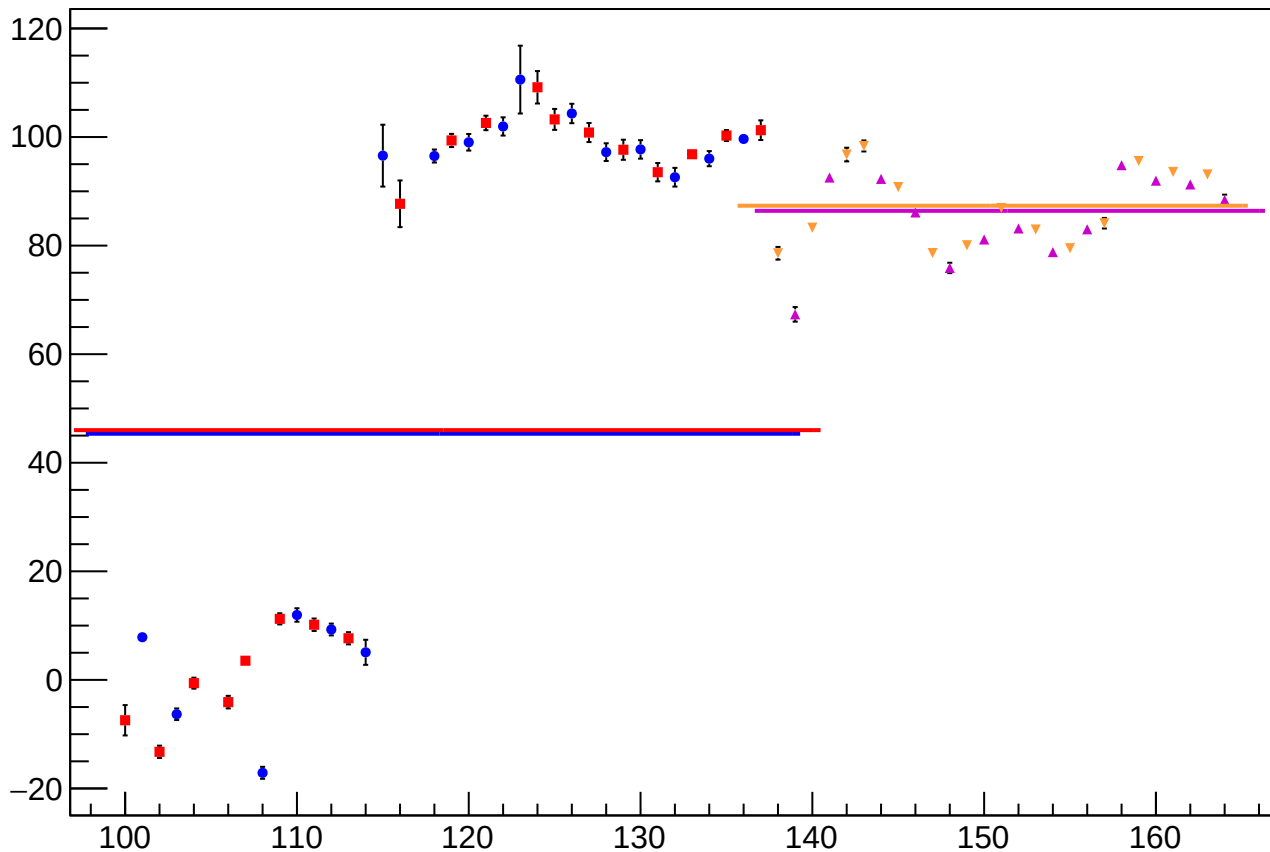
Right:  $1.401 \pm 0.311$   $\chi^2/\text{NDF}: 273.4/35$

In:  $7.389 \pm 0.239$   $\chi^2/\text{NDF}: 1156.1/29$

Out:  $7.226 \pm 0.236$   $\chi^2/\text{NDF}: 944.8/32$

All:  $7.307 \pm 0.168$   $\chi^2/\text{NDF}: 2101.1/62$

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: 87.351 $\pm$ 0.239  $\chi^2$ /NDF: 794.8/13

Right Out: 46.007 $\pm$ 0.289  $\chi^2$ /NDF: 28219.9/18

Left In: 86.404 $\pm$ 0.243  $\chi^2$ /NDF: 794.4/12

Left: 86.886 $\pm$ 0.170  $\chi^2$ /NDF: 1597.0/26

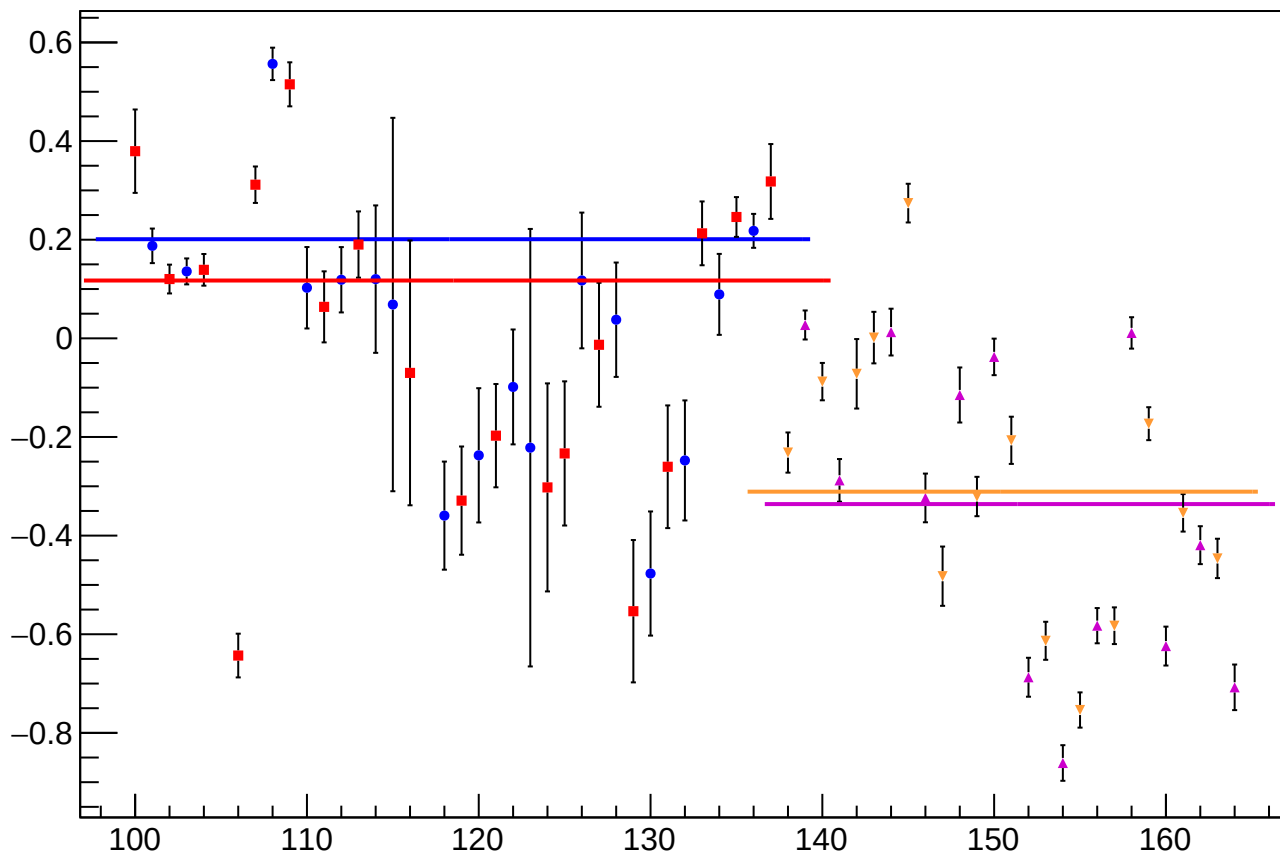
Right: 45.691 $\pm$ 0.209  $\chi^2$ /NDF: 53293.4/35

In: 70.360 $\pm$ 0.190  $\chi^2$ /NDF: 37036.1/29

Out: 70.607 $\pm$ 0.184  $\chi^2$ /NDF: 41152.6/32

All: 70.487 $\pm$ 0.132  $\chi^2$ /NDF: 78189.7/62

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:  $-0.311 \pm 0.011$   $\chi^2/\text{NDF}$ : 619.1/13

Right Out:  $0.117 \pm 0.013$   $\chi^2/\text{NDF}$ : 500.1/18

Left In:  $-0.336 \pm 0.011$   $\chi^2/\text{NDF}$ : 867.8/12

Left:  $-0.324 \pm 0.008$   $\chi^2/\text{NDF}$ : 1489.6/26

Right:  $0.156 \pm 0.010$   $\chi^2/\text{NDF}$ : 737.1/35

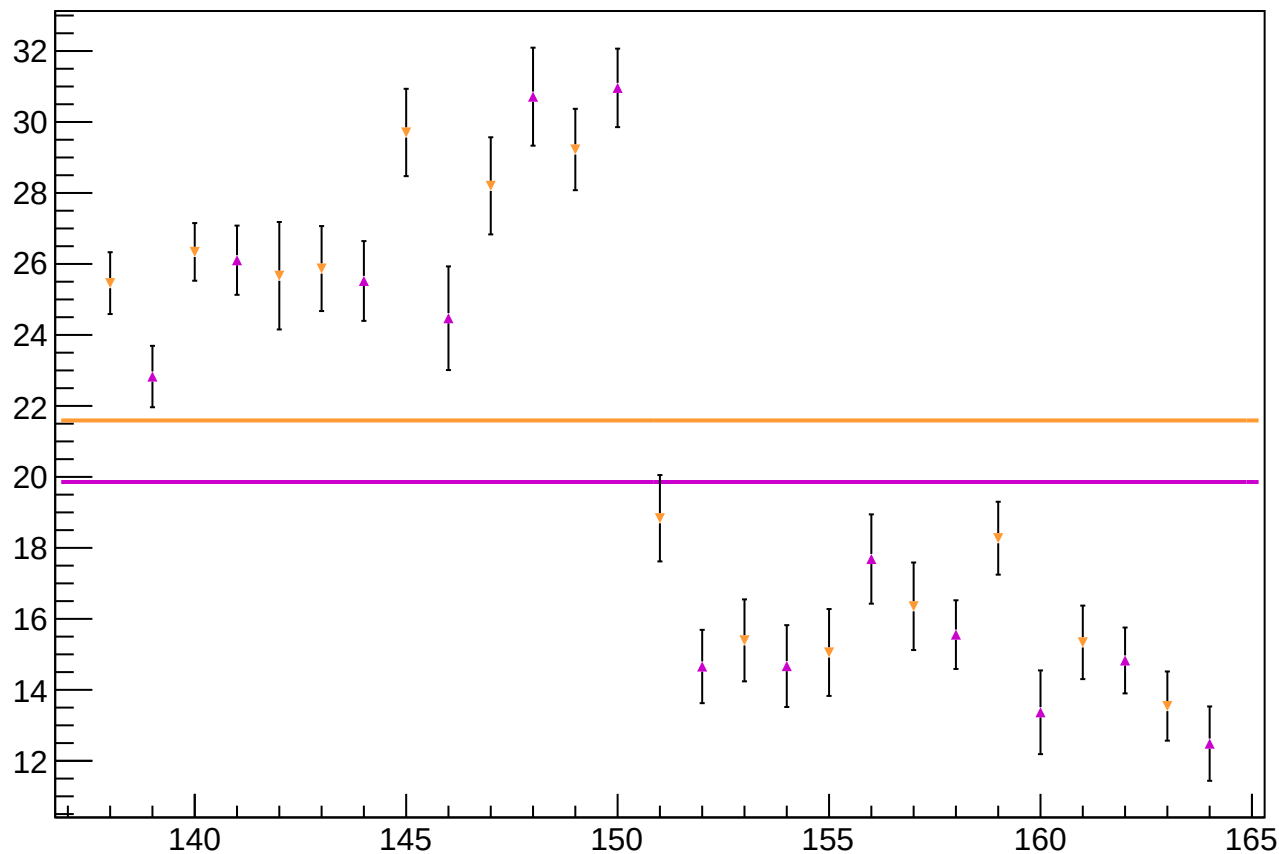
In:  $-0.136 \pm 0.009$   $\chi^2/\text{NDF}$ : 2004.9/29

Out:  $-0.132 \pm 0.008$   $\chi^2/\text{NDF}$ : 1750.0/32

All:  $-0.134 \pm 0.006$   $\chi^2/\text{NDF}$ : 3755.0/62



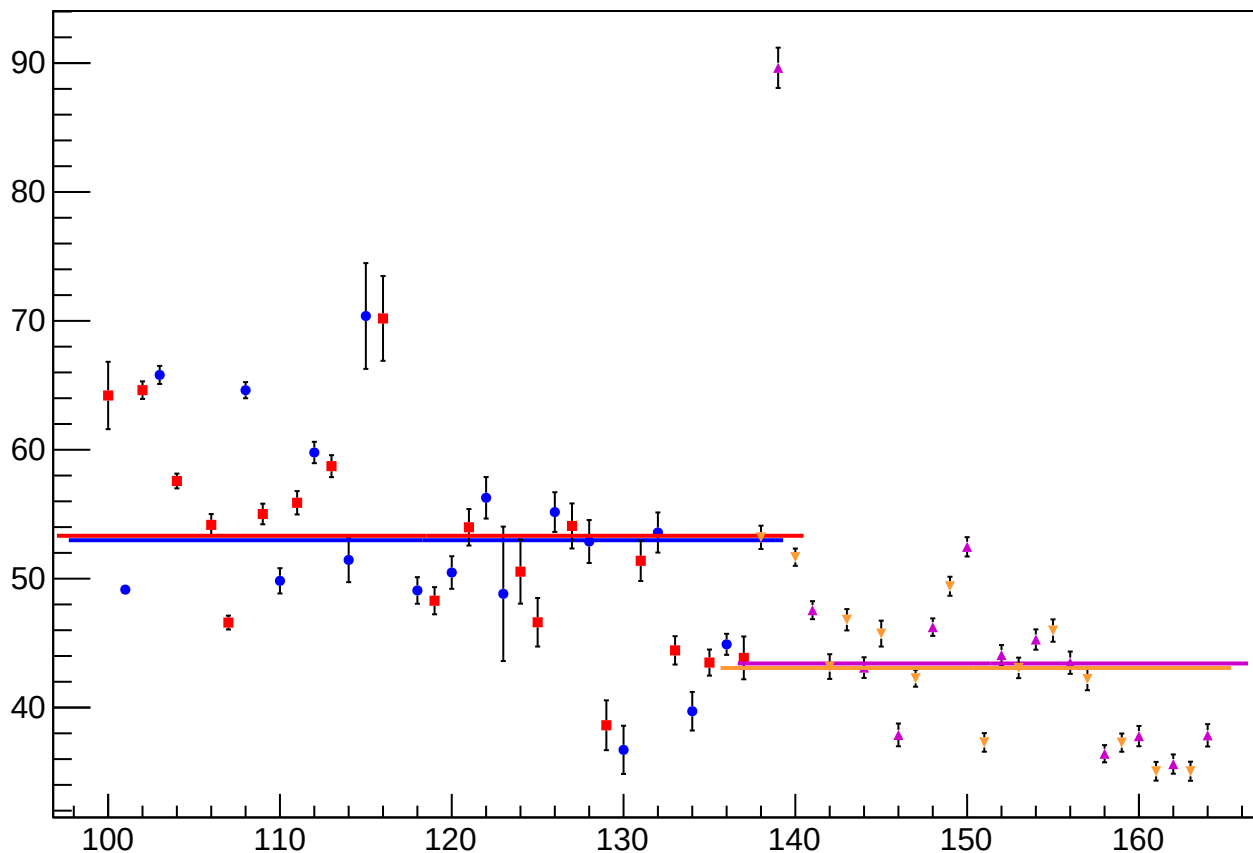
reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 21.591+/-0.294  $\chi^2/\text{NDF}$ :380.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 19.856+/-0.299  $\chi^2/\text{NDF}$ :428.4/12

Left: 20.740+/-0.210  $\chi^2/\text{NDF}$ : 826.2/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 19.856+/-0.299  $\chi^2/\text{NDF}$ :428.4/12  
 Out: 21.591+/-0.294  $\chi^2/\text{NDF}$ :380.7/13  
 All: 20.740+/-0.210  $\chi^2/\text{NDF}$ : 826.2/26

reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 52.981 $\pm$ 0.210  $\chi^2$ /NDF: 1197.8/16

Left Out: 43.067 $\pm$ 0.208  $\chi^2$ /NDF: 774.7/13

Right Out: 53.328 $\pm$ 0.227  $\chi^2$ /NDF: 872.7/18

Left In: 43.420 $\pm$ 0.219  $\chi^2$ /NDF: 1430.4/12

Left: 43.235 $\pm$ 0.151  $\chi^2$ /NDF: 2206.5/26

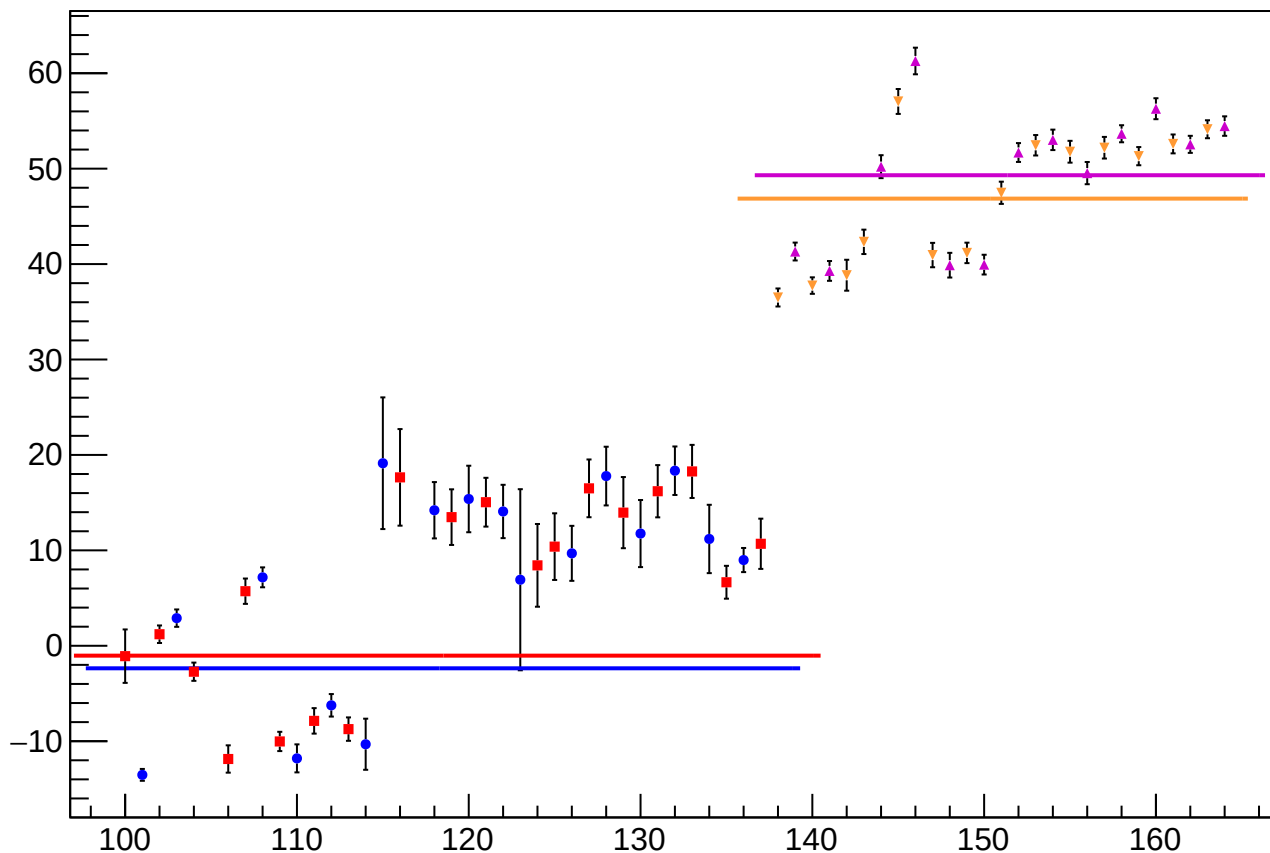
Right: 53.141 $\pm$ 0.154  $\chi^2$ /NDF: 2071.7/35

In: 48.398 $\pm$ 0.152  $\chi^2$ /NDF: 3620.3/29

Out: 47.769 $\pm$ 0.153  $\chi^2$ /NDF: 2757.4/32

All: 48.087 $\pm$ 0.108  $\chi^2$ /NDF: 6386.2/62

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:  $46.860 \pm 0.290$   $\chi^2/\text{NDF}$ : 562.1/13

Right Out:  $-1.035 \pm 0.377$   $\chi^2/\text{NDF}$ : 507.7/18

Left In:  $49.310 \pm 0.292$   $\chi^2/\text{NDF}$ : 496.2/12

Left:  $48.075 \pm 0.206$   $\chi^2/\text{NDF}$ : 1093.8/26

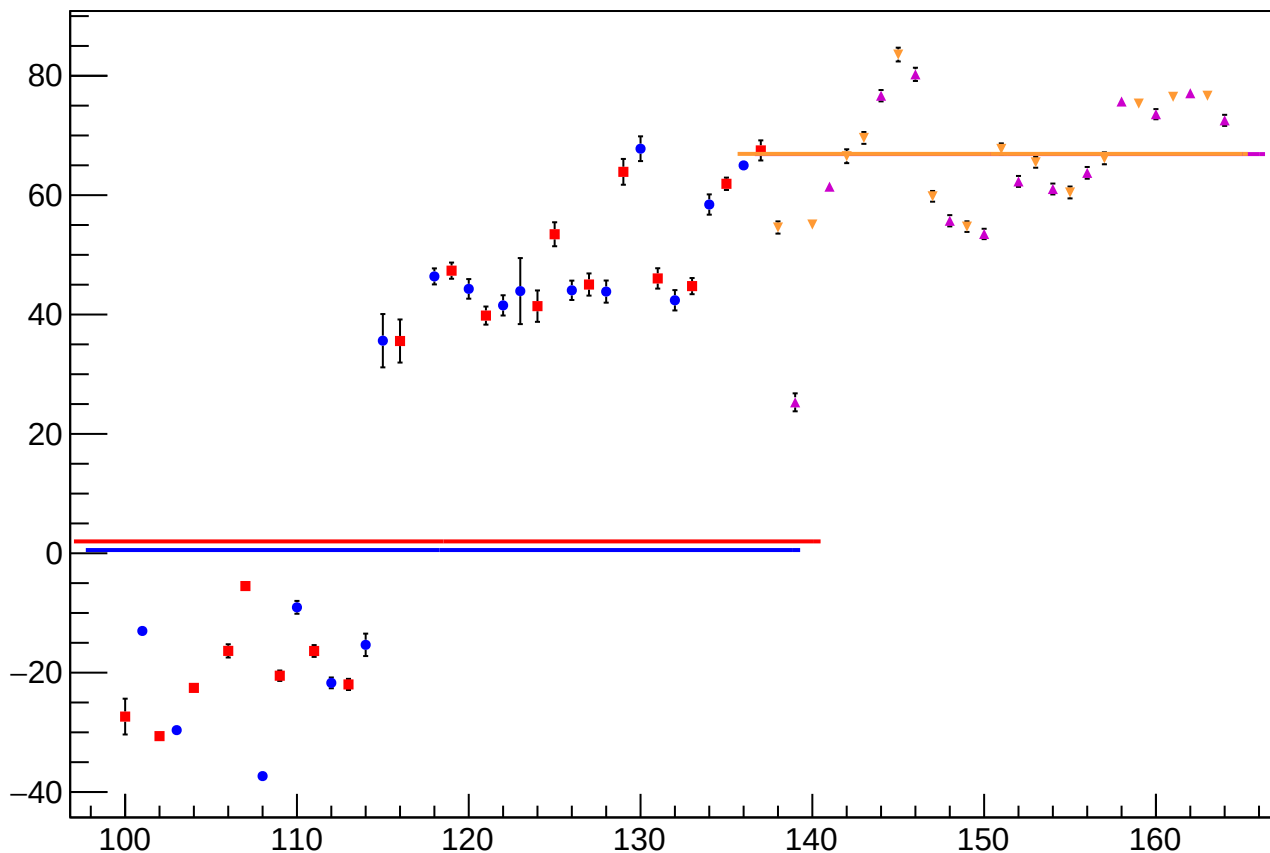
Right:  $-1.721 \pm 0.262$   $\chi^2/\text{NDF}$ : 1355.0/35

In:  $29.076 \pm 0.228$   $\chi^2/\text{NDF}$ : 13609.2/29

Out:  $29.084 \pm 0.230$   $\chi^2/\text{NDF}$ : 11224.4/32

All:  $29.080 \pm 0.162$   $\chi^2/\text{NDF}$ : 24833.6/62

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.541+/-0.247  $\chi^2/\text{NDF}$ : 18423.8/16

Left Out: 66.916+/-0.242  $\chi^2/\text{NDF}$ :1307.2/13

Right Out: 1.990+/-0.267  $\chi^2/\text{NDF}$ : 15476.7/18

Left In: 66.880+/-0.251  $\chi^2/\text{NDF}$ :1939.9/12

Left: 66.898+/-0.174  $\chi^2/\text{NDF}$ : 3247.0/26

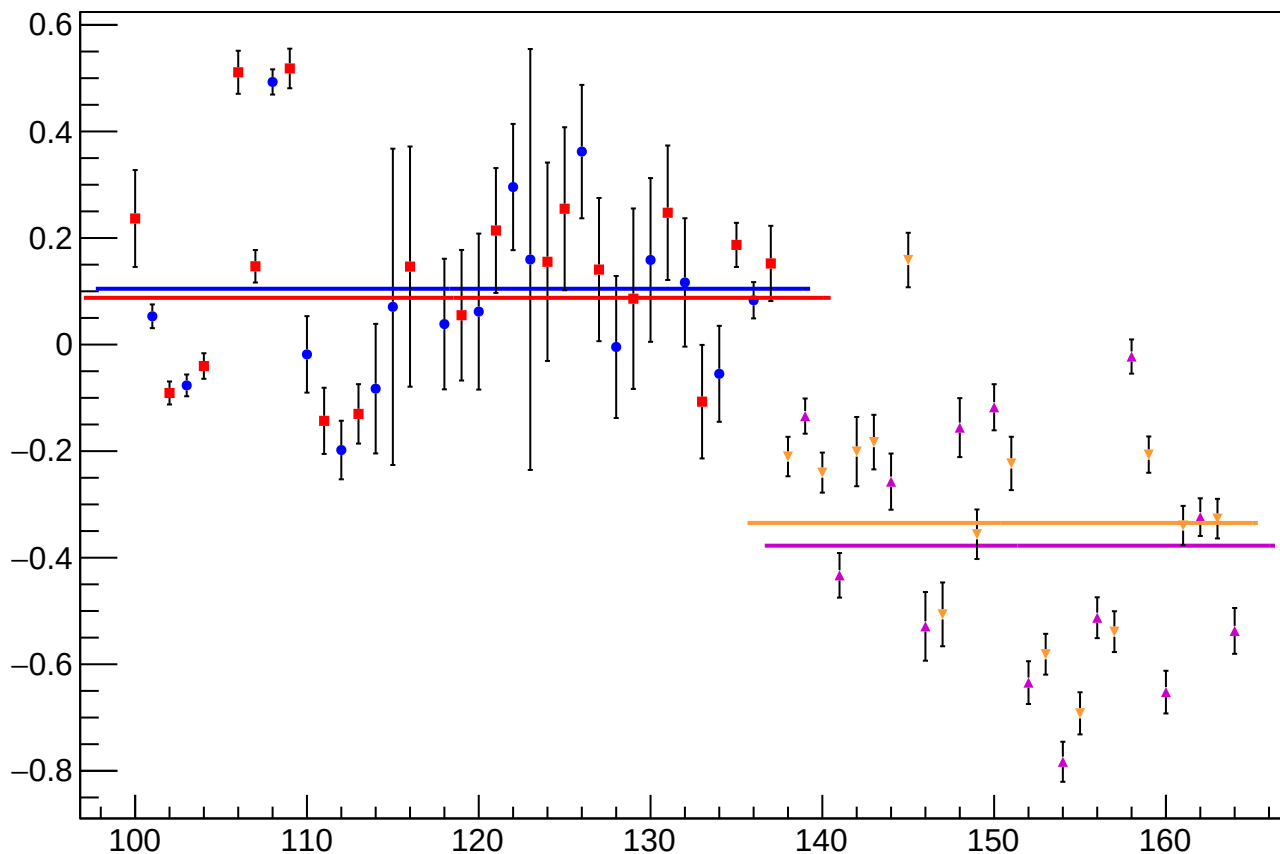
Right: 1.210+/-0.181  $\chi^2/\text{NDF}$ : 33916.4/35

In: 33.159+/-0.176  $\chi^2/\text{NDF}$ :55915.7/29

Out: 37.516+/-0.179  $\chi^2/\text{NDF}$ :49256.2/32

All: 35.295+/-0.126  $\chi^2/\text{NDF}$ : 105472.8/62

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:  $-0.335 \pm 0.011$   $\chi^2/\text{NDF}$ : 303.0/13

Right Out:  $0.088 \pm 0.011$   $\chi^2/\text{NDF}$ : 391.0/18

Left In:  $-0.377 \pm 0.011$   $\chi^2/\text{NDF}$ : 474.3/12

Left:  $-0.356 \pm 0.008$   $\chi^2/\text{NDF}$ : 784.5/26

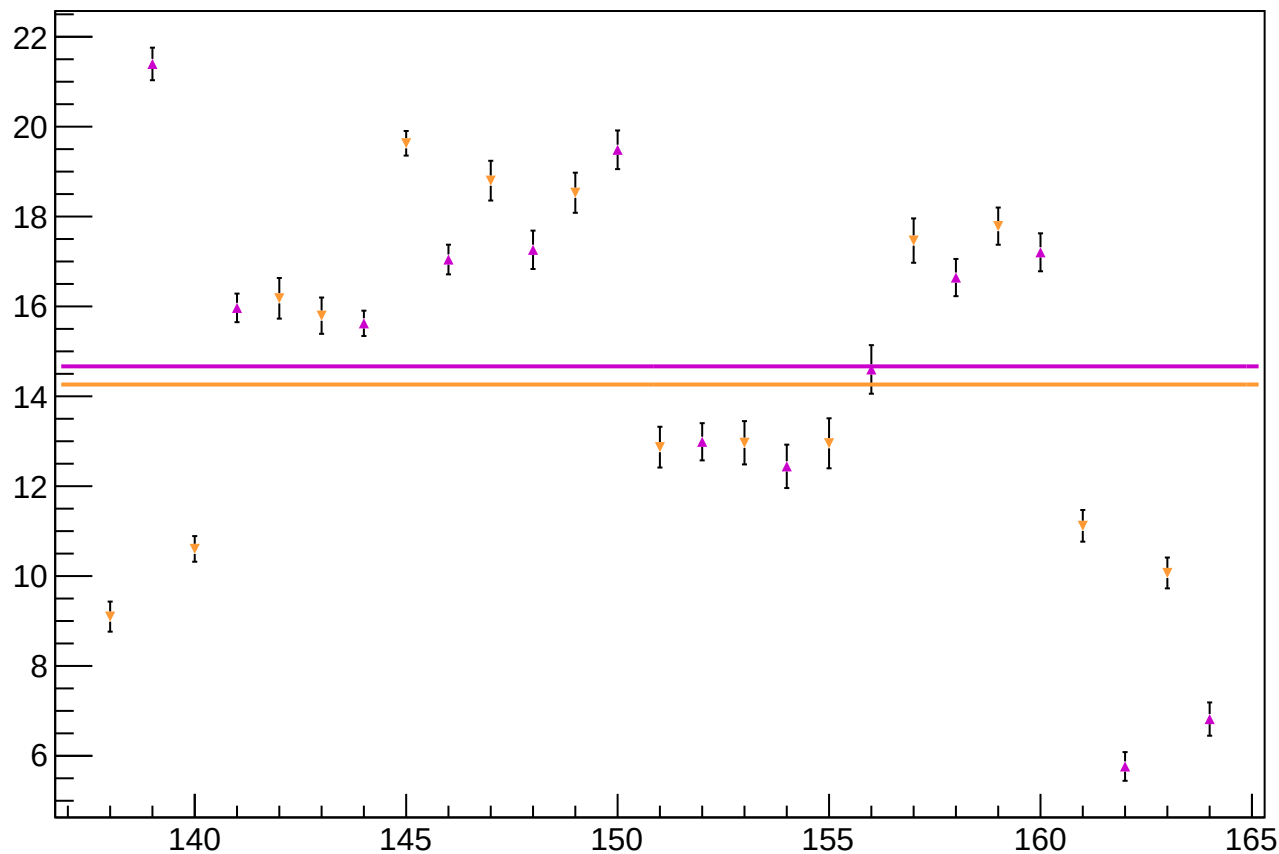
Right:  $0.096 \pm 0.008$   $\chi^2/\text{NDF}$ : 792.9/35

In:  $-0.132 \pm 0.008$   $\chi^2/\text{NDF}$ : 1811.3/29

Out:  $-0.119 \pm 0.008$   $\chi^2/\text{NDF}$ : 1414.9/32

All:  $-0.125 \pm 0.006$   $\chi^2/\text{NDF}$ : 3227.5/62

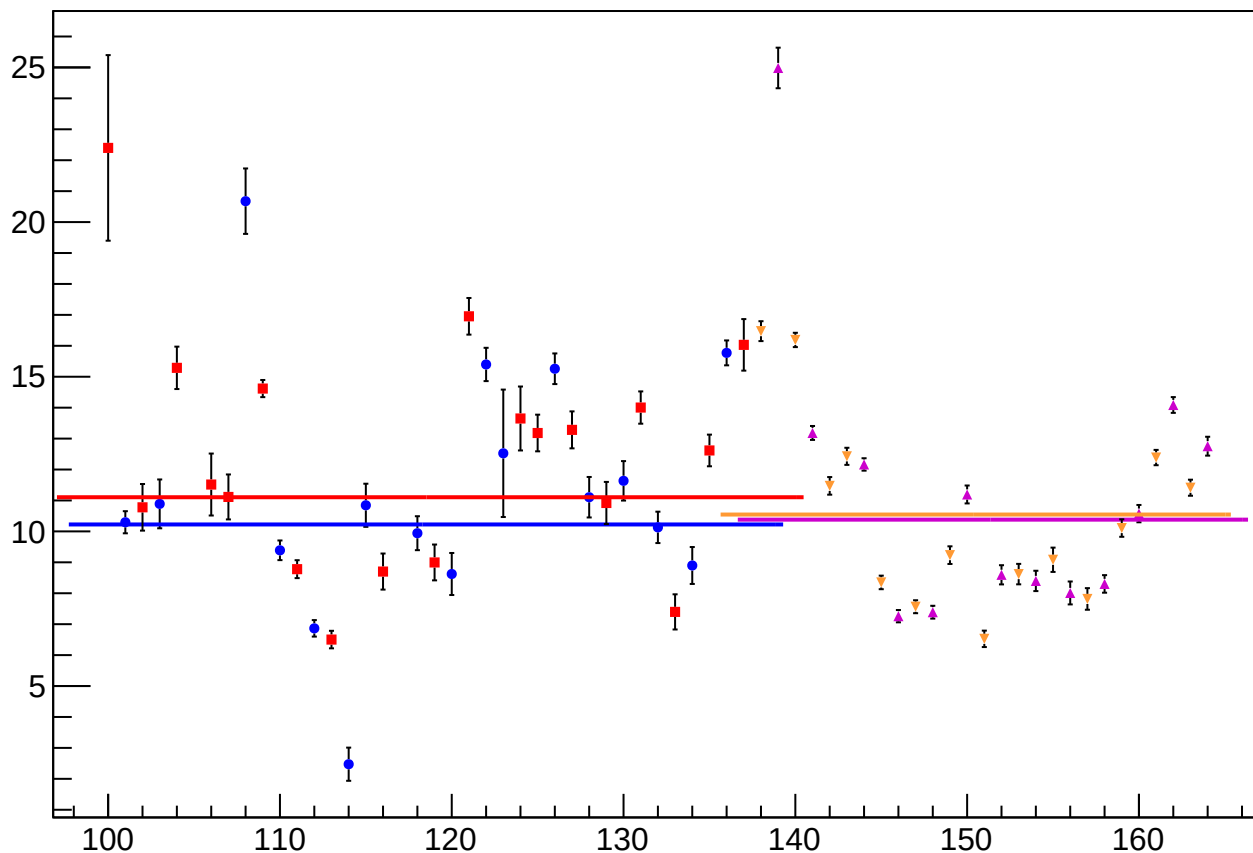
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 14.262+/-0.103  $\chi^2/\text{NDF}$ :1381.0/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 14.666+/-0.104  $\chi^2/\text{NDF}$ :1910.9/12

Left: 14.462+/-0.073  $\chi^2/\text{NDF}$ : 3299.5/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 14.666+/-0.104  $\chi^2/\text{NDF}$ :1910.9/12  
 Out: 14.262+/-0.103  $\chi^2/\text{NDF}$ :1381.0/13  
 All: 14.462+/-0.073  $\chi^2/\text{NDF}$ : 3299.5/26

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 10.224 $\pm$ 0.119  $\chi^2$ /NDF: 877.6/16

Left Out: 10.544 $\pm$ 0.072  $\chi^2$ /NDF:1722.0/13

Right Out: 11.104 $\pm$ 0.116  $\chi^2$ /NDF: 817.2/18

Left In: 10.380 $\pm$ 0.073  $\chi^2$ /NDF:1627.6/12

Left: 10.463 $\pm$ 0.052  $\chi^2$ /NDF: 3352.2/26

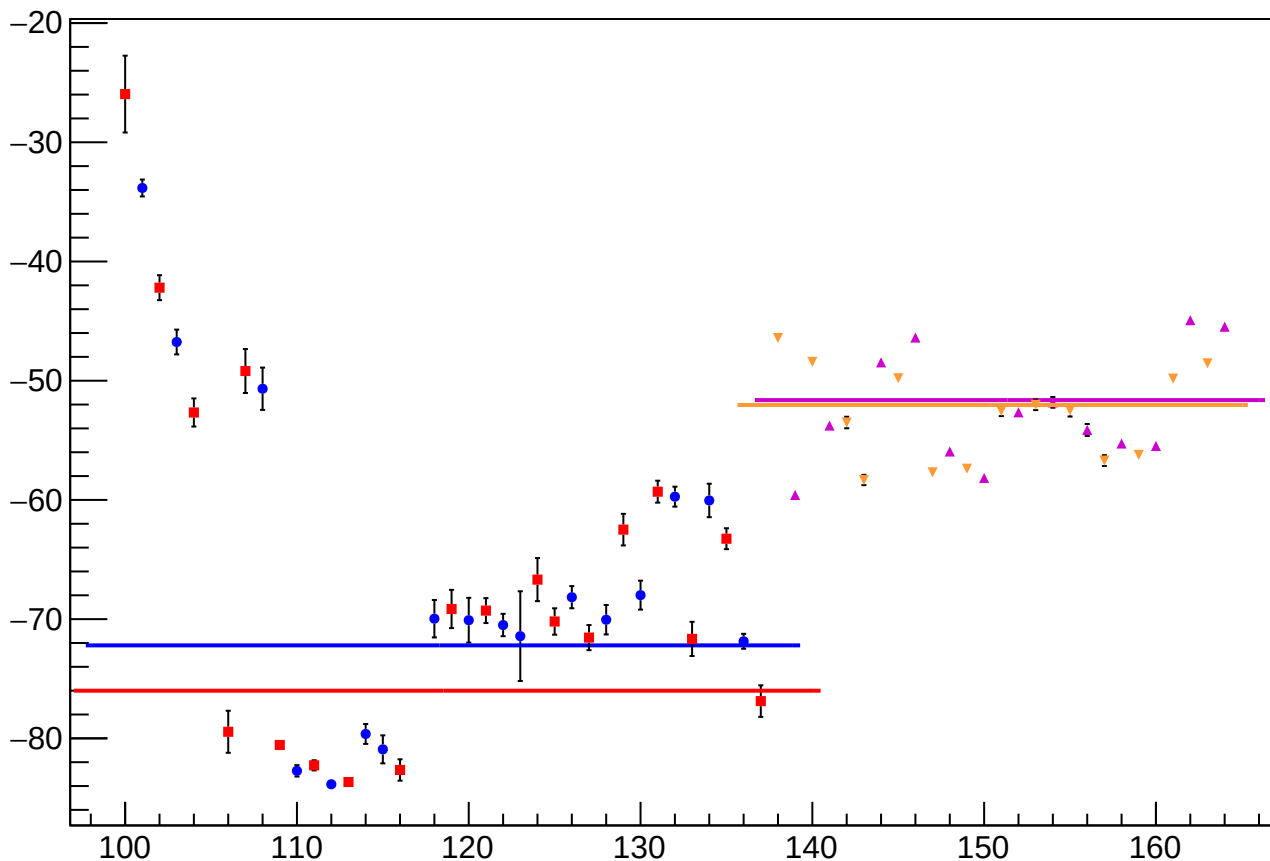
Right: 10.673 $\pm$ 0.083  $\chi^2$ /NDF: 1722.7/35

In: 10.337 $\pm$ 0.062  $\chi^2$ /NDF:2506.4/29

Out: 10.700 $\pm$ 0.061  $\chi^2$ /NDF:2555.8/32

All: 10.522 $\pm$ 0.044  $\chi^2$ /NDF: 5079.5/62

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:  $-52.036 \pm 0.103$   $\chi^2/\text{NDF}$ : 1394.8/13

Right Out:  $-76.003 \pm 0.181$   $\chi^2/\text{NDF}$ : 3465.4/18

Left In:  $-51.624 \pm 0.102$   $\chi^2/\text{NDF}$ : 2202.1/12

Left:  $-51.829 \pm 0.072$   $\chi^2/\text{NDF}$ : 3604.9/26

Right:  $-74.270 \pm 0.133$   $\chi^2/\text{NDF}$ : 9233.6/35

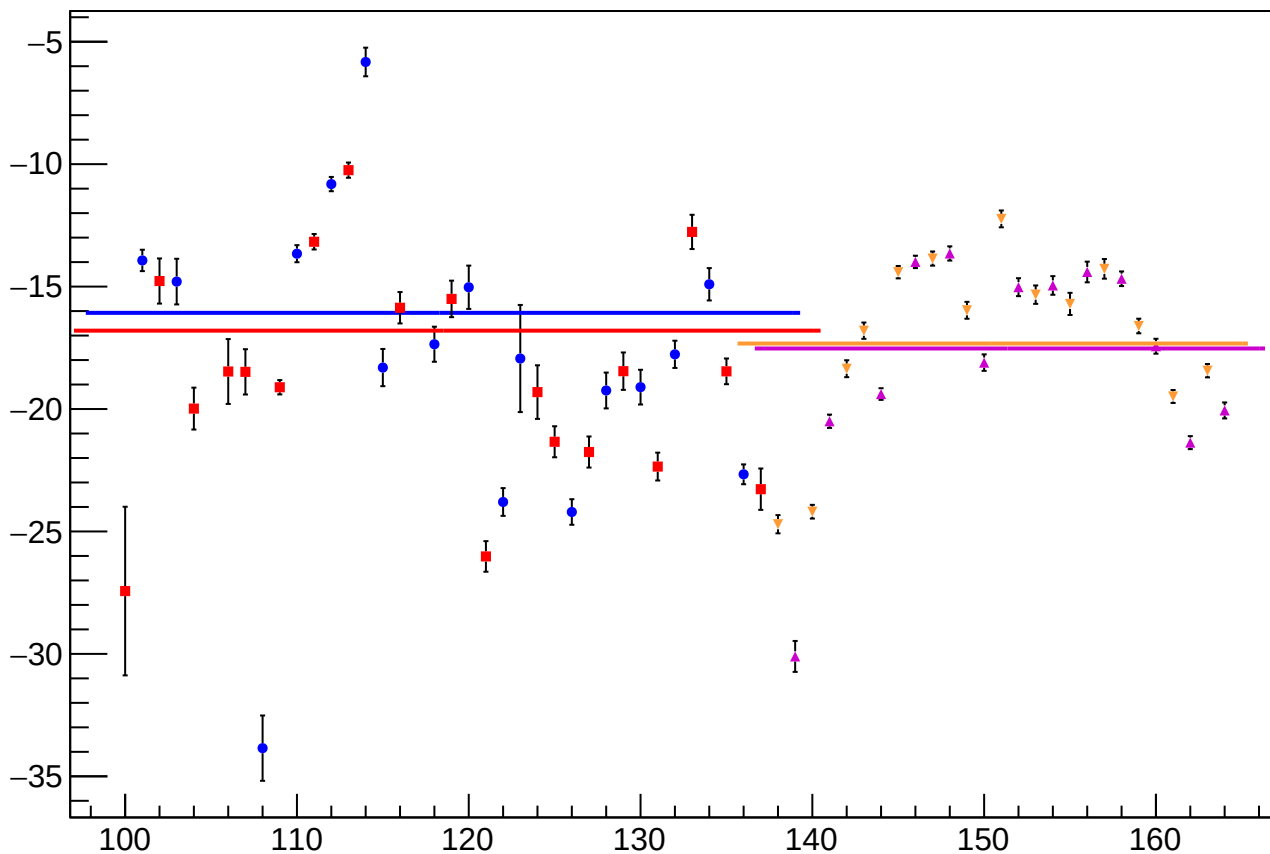
In:  $-55.971 \pm 0.091$   $\chi^2/\text{NDF}$ : 16314.2/29

Out:  $-57.870 \pm 0.089$   $\chi^2/\text{NDF}$ : 18135.3/32

All:  $-56.937 \pm 0.064$   $\chi^2/\text{NDF}$ : 34671.9/62



reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

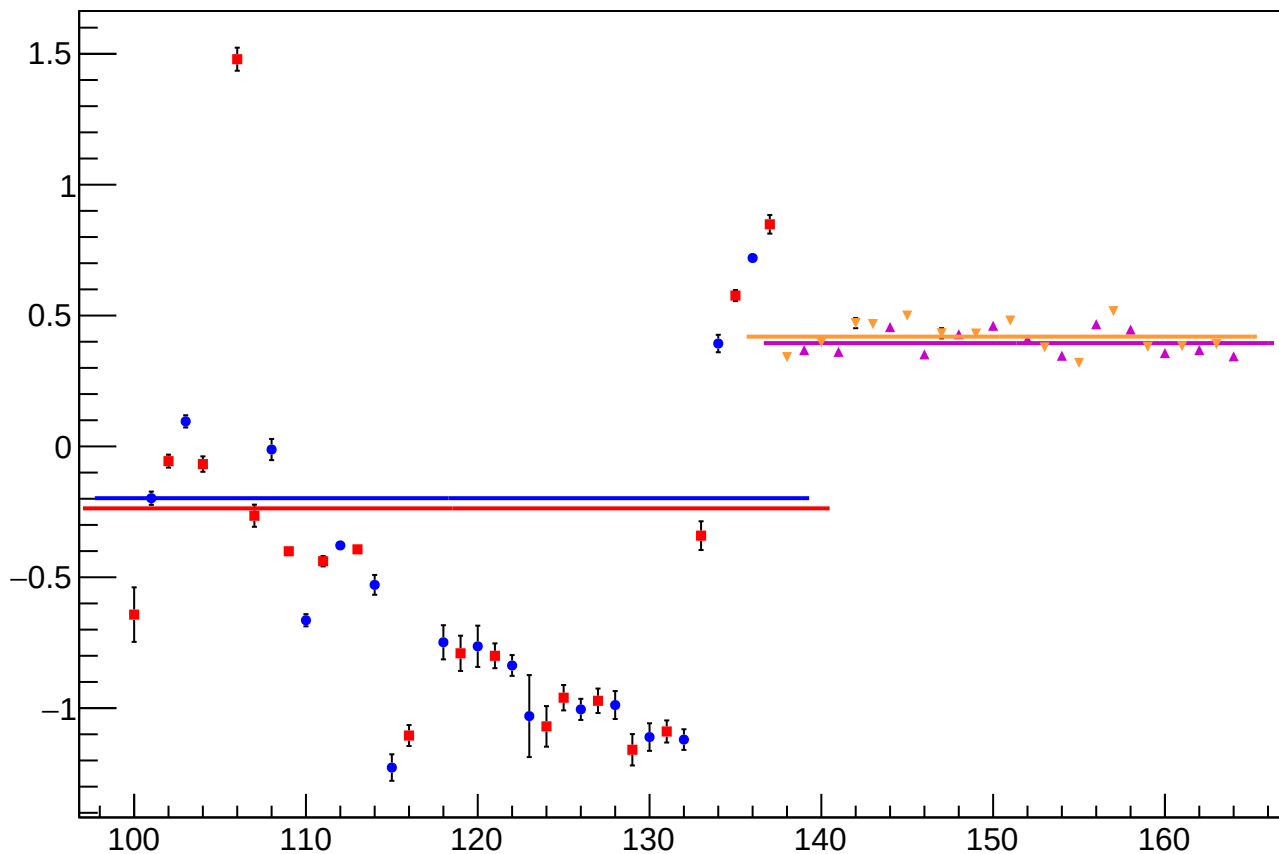


Right In:  $-16.072 \pm 0.132$   $\chi^2/\text{NDF}: 1640.9/16$   
 Left Out:  $-17.325 \pm 0.085$   $\chi^2/\text{NDF}: 1704.3/13$   
 Right Out:  $-16.799 \pm 0.128$   $\chi^2/\text{NDF}: 1215.8/18$   
 Left In:  $-17.528 \pm 0.086$   $\chi^2/\text{NDF}: 1460.9/12$

Left:  $-17.425 \pm 0.060$   $\chi^2/\text{NDF}: 3168.1/26$   
 Right:  $-16.447 \pm 0.092$   $\chi^2/\text{NDF}: 2872.2/35$   
 In:  $-17.095 \pm 0.072$   $\chi^2/\text{NDF}: 3187.2/29$   
 Out:  $-17.164 \pm 0.071$   $\chi^2/\text{NDF}: 2931.8/32$

All:  $-17.130 \pm 0.050$   $\chi^2/\text{NDF}: 6119.4/62$

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:  $0.419 \pm 0.004$   $\chi^2/\text{NDF}$ : 207.1/13

Right Out:  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 6221.9/18

Left In:  $0.395 \pm 0.004$   $\chi^2/\text{NDF}$ : 126.1/12

Left:  $0.407 \pm 0.003$   $\chi^2/\text{NDF}$ : 351.7/26

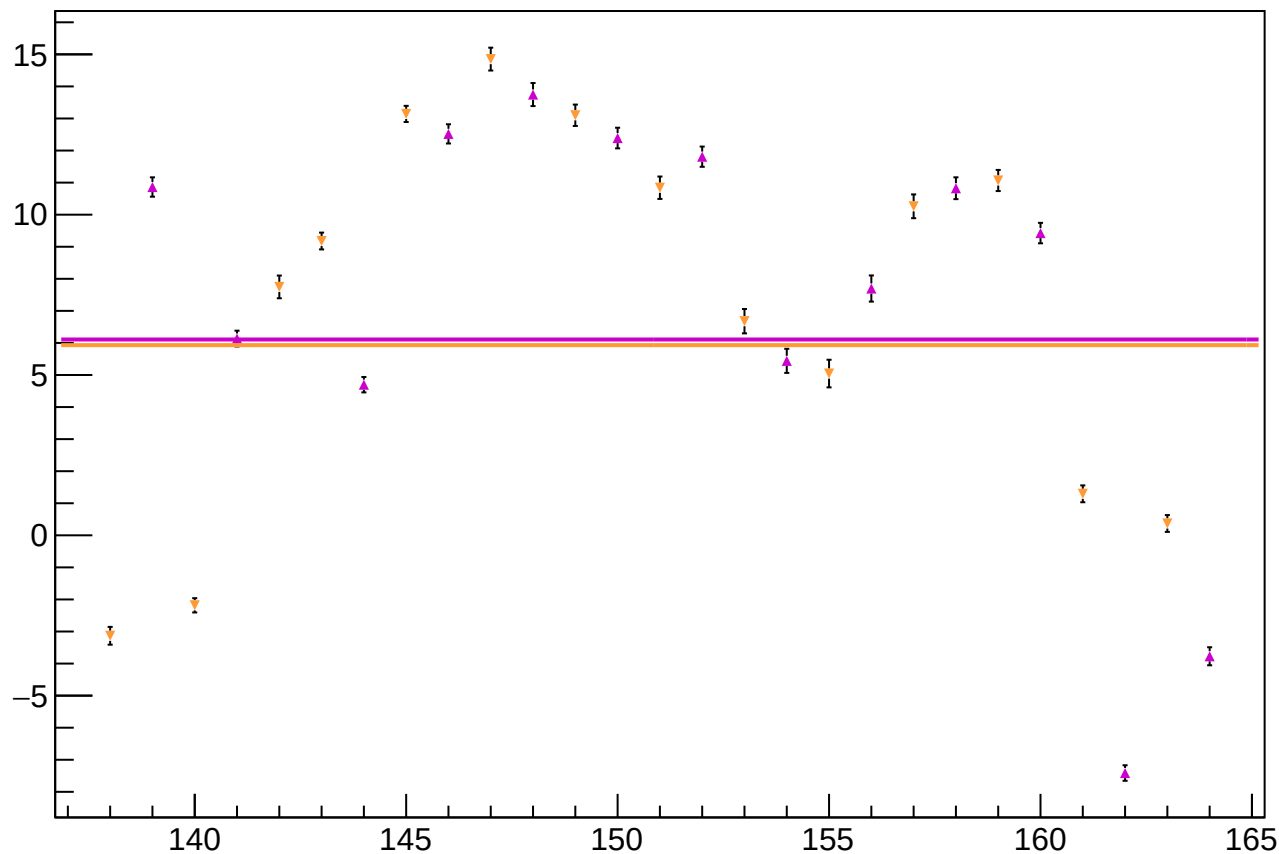
Right:  $-0.218 \pm 0.005$   $\chi^2/\text{NDF}$ : 12574.6/35

In:  $0.262 \pm 0.004$   $\chi^2/\text{NDF}$ : 11260.3/29

Out:  $0.261 \pm 0.004$   $\chi^2/\text{NDF}$ : 12784.1/32

All:  $0.262 \pm 0.003$   $\chi^2/\text{NDF}$ : 24044.4/62

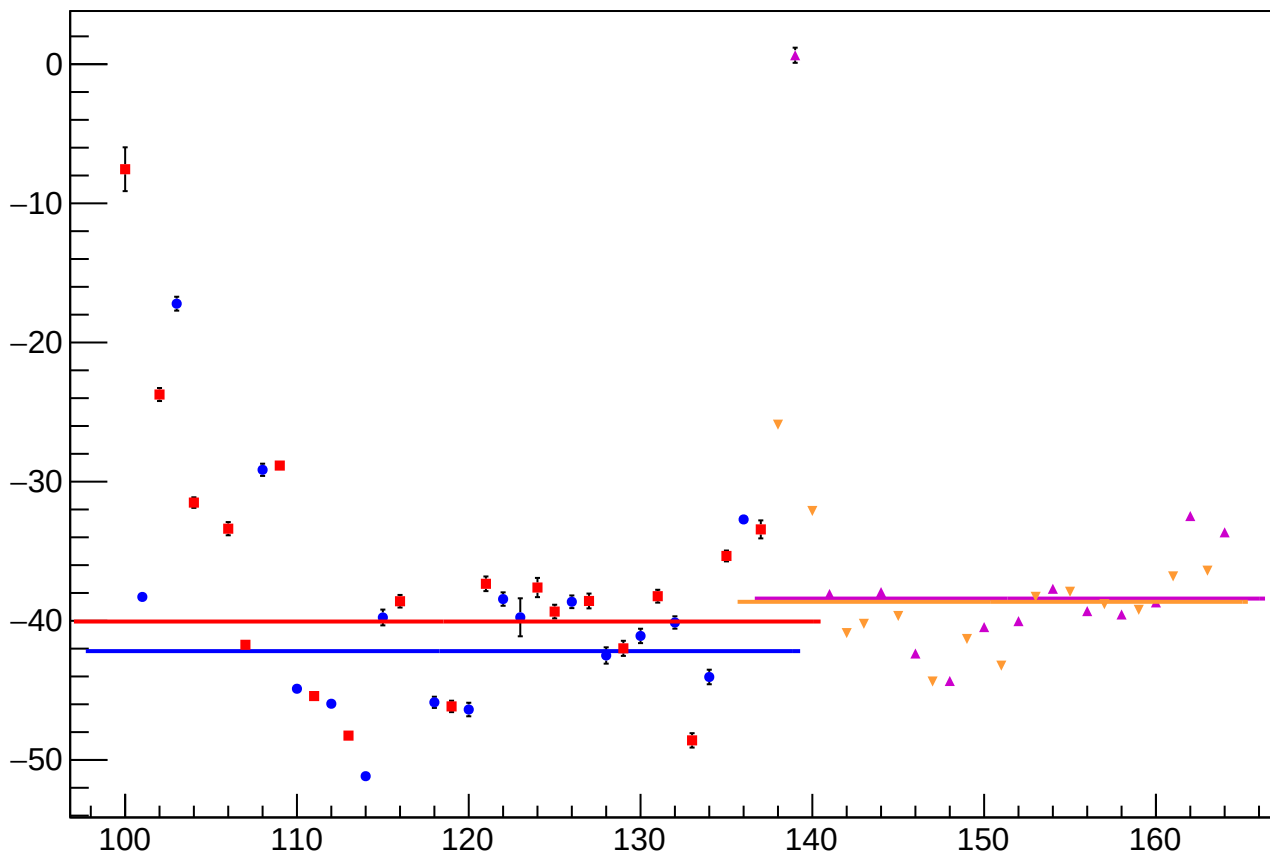
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.931+/-0.081  $\chi^2/\text{NDF}$ : 5823.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.108+/-0.083  $\chi^2/\text{NDF}$ : 6562.4/12

Left: 6.016+/-0.058  $\chi^2/\text{NDF}$ : 12388.0/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 6.108+/-0.083  $\chi^2/\text{NDF}$ : 6562.4/12  
 Out: 5.931+/-0.081  $\chi^2/\text{NDF}$ : 5823.4/13  
 All: 6.016+/-0.058  $\chi^2/\text{NDF}$ : 12388.0/26

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:  $-38.635 \pm 0.057$   $\chi^2/\text{NDF}: 5767.6/13$

Right Out:  $-40.052 \pm 0.073$   $\chi^2/\text{NDF}: 11313.5/18$

Left In:  $-38.403 \pm 0.059$   $\chi^2/\text{NDF}: 8271.4/12$

Left:  $-38.525 \pm 0.041$   $\chi^2/\text{NDF}: 14047.0/26$

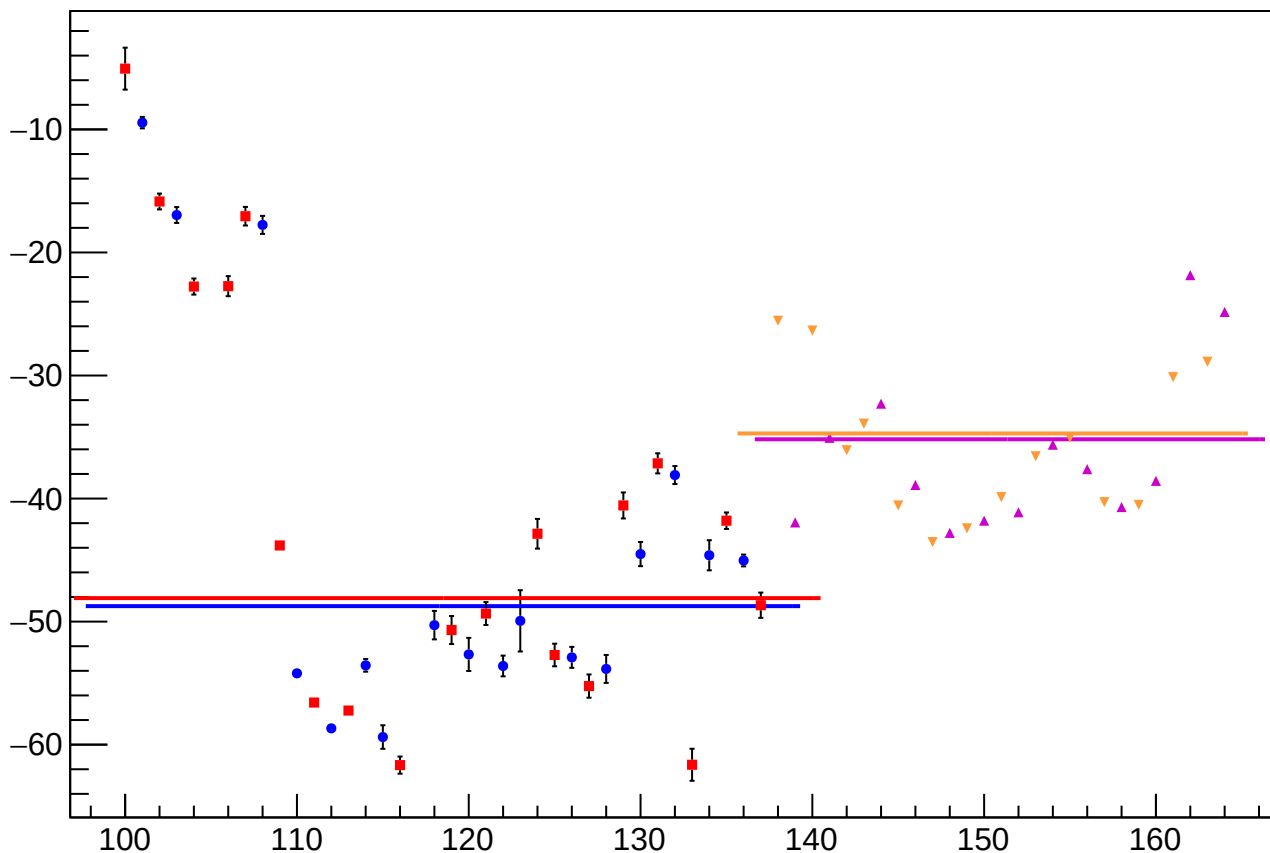
Right:  $-41.045 \pm 0.053$   $\chi^2/\text{NDF}: 18285.9/35$

In:  $-39.792 \pm 0.047$   $\chi^2/\text{NDF}: 16335.4/29$

Out:  $-39.168 \pm 0.045$   $\chi^2/\text{NDF}: 17317.5/32$

All:  $-39.463 \pm 0.032$   $\chi^2/\text{NDF}: 33745.1/62$

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: -34.709 $\pm$ 0.080  $\chi^2$ /NDF: 5738.6/13

Right Out: -48.091 $\pm$ 0.107  $\chi^2$ /NDF: 11731.5/18

Left In: -35.182 $\pm$ 0.082  $\chi^2$ /NDF: 7269.6/12

Left: -34.942 $\pm$ 0.057  $\chi^2$ /NDF: 13025.3/26

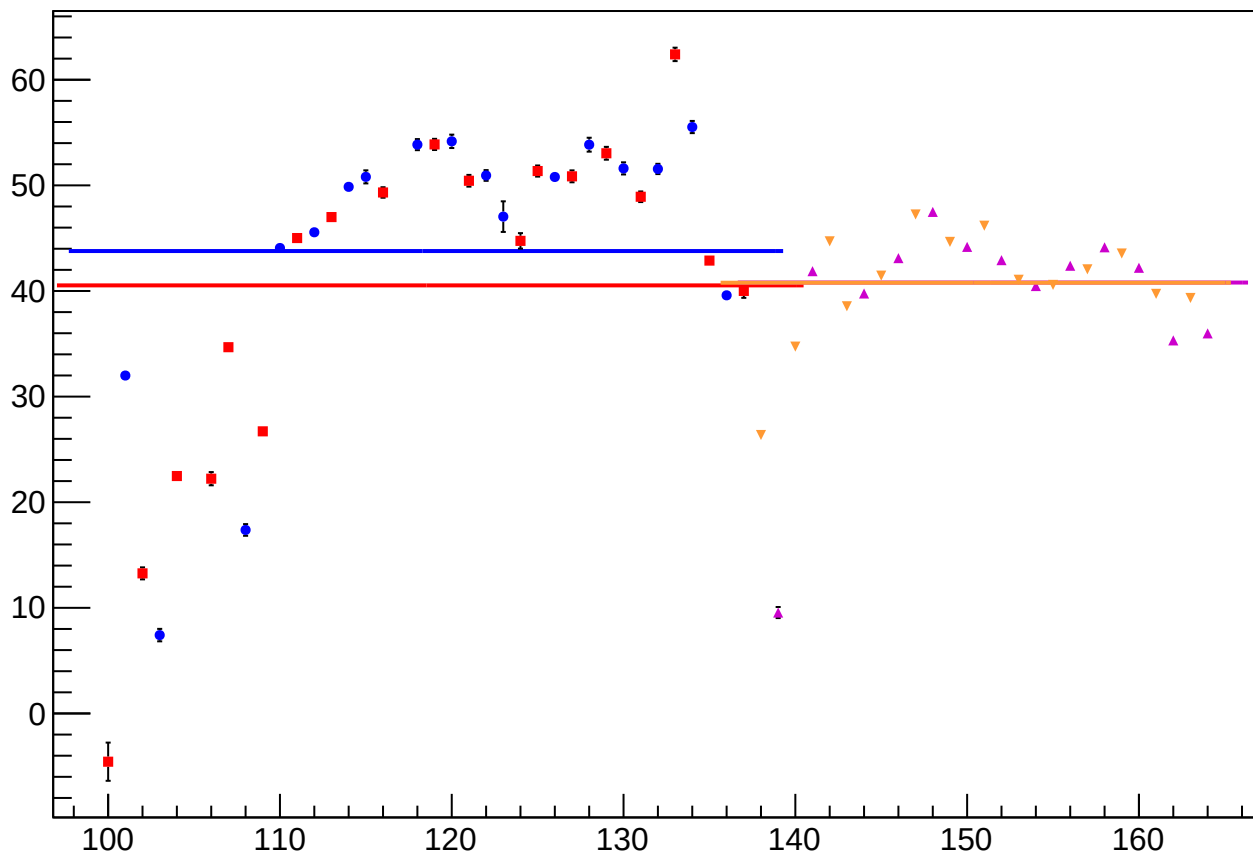
Right: -48.369 $\pm$ 0.081  $\chi^2$ /NDF: 26405.8/35

In: -39.258 $\pm$ 0.068  $\chi^2$ /NDF: 30235.6/29

Out: -39.508 $\pm$ 0.064  $\chi^2$ /NDF: 27461.0/32

All: -39.391 $\pm$ 0.047  $\chi^2$ /NDF: 57703.7/62

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:  $40.783 \pm 0.066$   $\chi^2/\text{NDF}: 4876.0/13$

Right Out:  $40.530 \pm 0.080$   $\chi^2/\text{NDF}: 17580.7/18$

Left In:  $40.799 \pm 0.069$   $\chi^2/\text{NDF}: 6045.6/12$

Left:  $40.791 \pm 0.048$   $\chi^2/\text{NDF}: 10921.6/26$

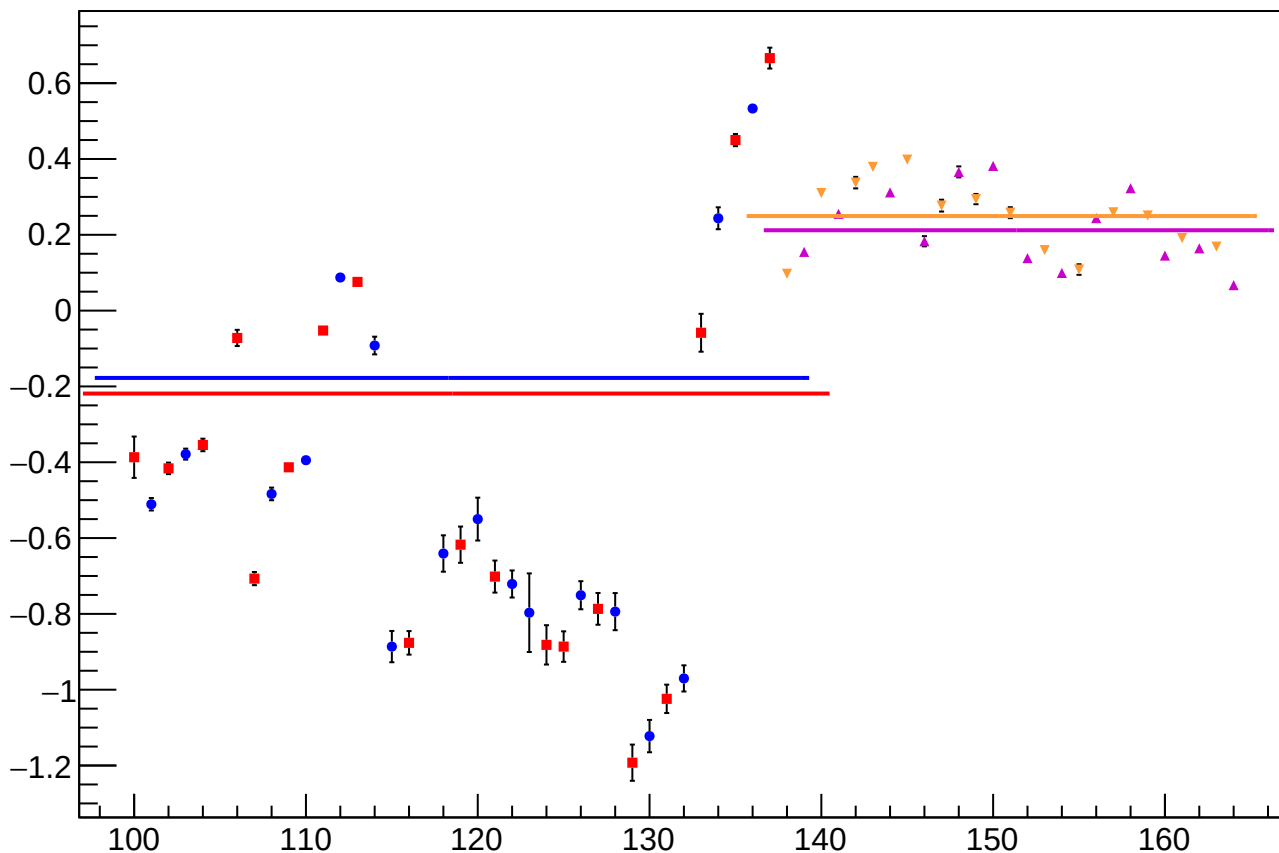
Right:  $42.031 \pm 0.059$   $\chi^2/\text{NDF}: 28978.3/35$

In:  $41.953 \pm 0.054$   $\chi^2/\text{NDF}: 17411.5/29$

Out:  $40.681 \pm 0.051$   $\chi^2/\text{NDF}: 22462.6/32$

All:  $41.282 \pm 0.037$   $\chi^2/\text{NDF}: 40168.0/62$

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.178 $\pm$ 0.005  $\chi^2$ /NDF: 7375.8/16

Left Out: 0.249 $\pm$ 0.003  $\chi^2$ /NDF:835.9/13

Right Out: -0.219 $\pm$ 0.004  $\chi^2$ /NDF: 7470.0/18

Left In: 0.212 $\pm$ 0.003  $\chi^2$ /NDF:867.1/12

Left: 0.231 $\pm$ 0.002  $\chi^2$ /NDF: 1772.1/26

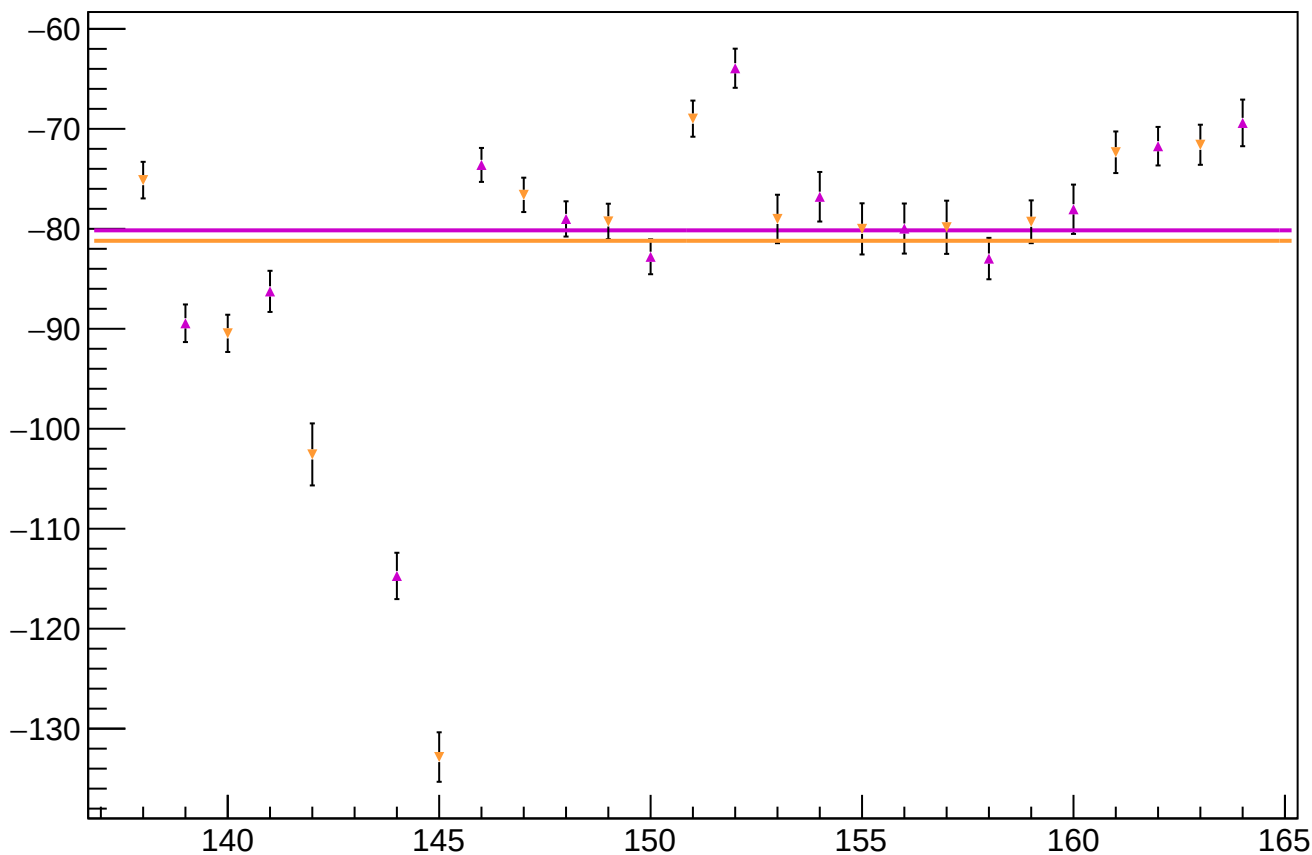
Right: -0.201 $\pm$ 0.003  $\chi^2$ /NDF: 14886.5/35

In: 0.092 $\pm$ 0.003  $\chi^2$ /NDF:12741.9/29

Out: 0.086 $\pm$ 0.003  $\chi^2$ /NDF:16015.4/32

All: 0.089 $\pm$ 0.002  $\chi^2$ /NDF: 28760.7/62

reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -81.198 $\pm$ 0.580  $\chi^2/\text{NDF}$ :615.4/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -80.153 $\pm$ 0.565  $\chi^2/\text{NDF}$ :386.6/12

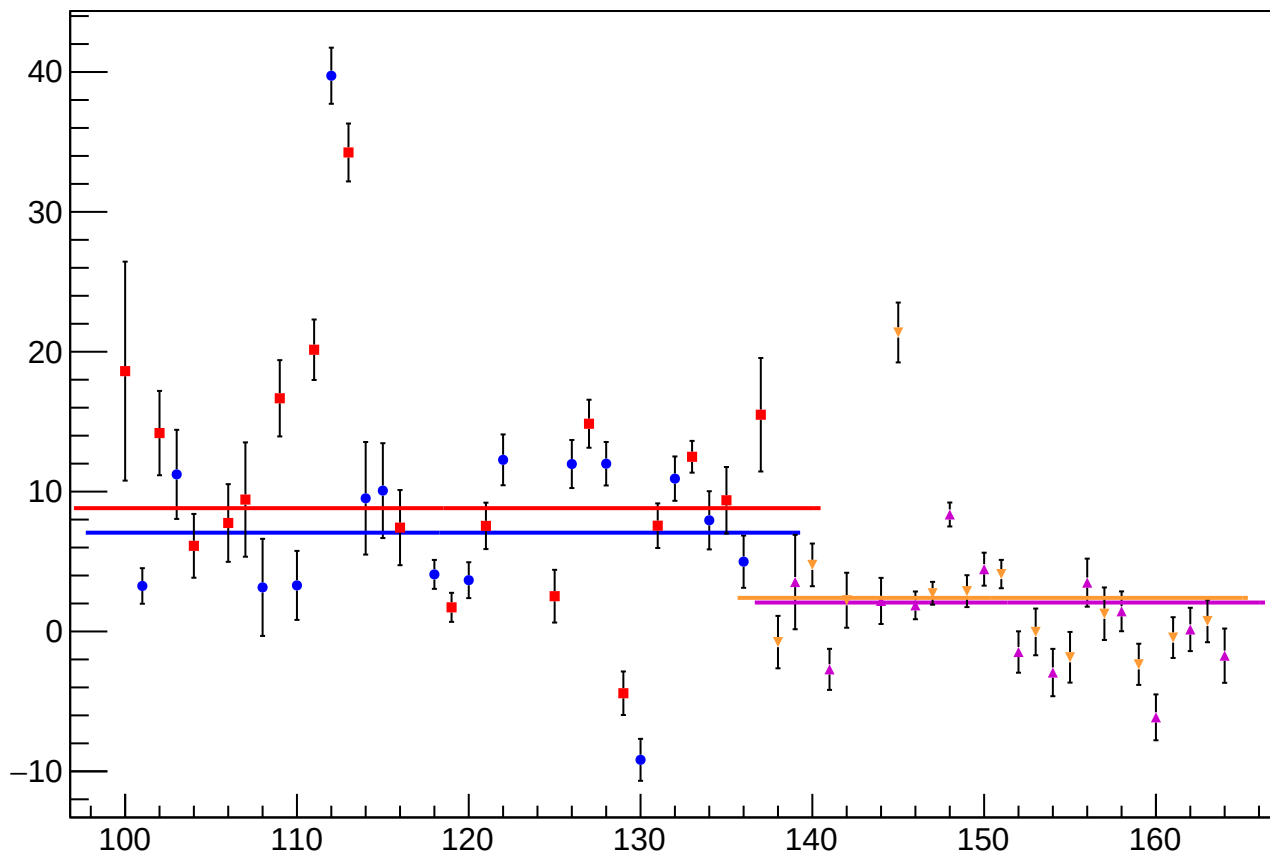
Left: -80.662 $\pm$ 0.404  $\chi^2/\text{NDF}$ : 1003.6/25  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -80.153 $\pm$ 0.565  $\chi^2/\text{NDF}$ :386.6/12  
 Out: -81.198 $\pm$ 0.580  $\chi^2/\text{NDF}$ :615.4/12

All: -80.662 $\pm$ 0.404  $\chi^2/\text{NDF}$ : 1003.6/25



reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.063 \pm 0.434$   $\chi^2/\text{NDF}: 446.9/15$

Left Out:  $2.402 \pm 0.385$   $\chi^2/\text{NDF}: 110.4/12$

Right Out:  $8.816 \pm 0.449$   $\chi^2/\text{NDF}: 350.4/17$

Left In:  $2.069 \pm 0.386$   $\chi^2/\text{NDF}: 114.7/12$

Left:  $2.236 \pm 0.272$   $\chi^2/\text{NDF}: 225.5/25$

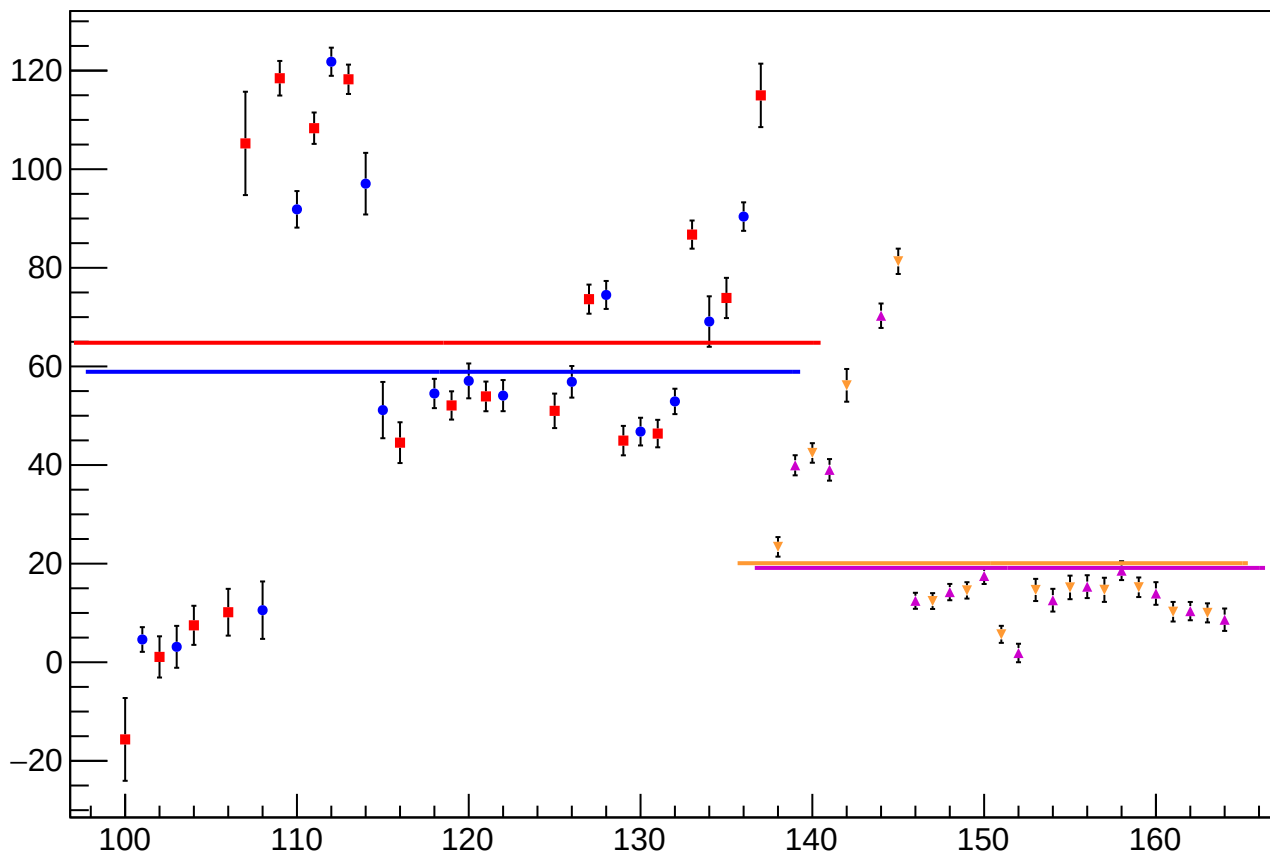
Right:  $7.909 \pm 0.312$   $\chi^2/\text{NDF}: 805.1/33$

In:  $4.277 \pm 0.288$   $\chi^2/\text{NDF}: 635.6/28$

Out:  $5.118 \pm 0.292$   $\chi^2/\text{NDF}: 578.4/30$

All:  $4.692 \pm 0.205$   $\chi^2/\text{NDF}: 1218.3/59$

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 58.913 $\pm$ 0.831  $\chi^2$ /NDF: 1496.7/15

Left Out: 20.089 $\pm$ 0.563  $\chi^2$ /NDF:992.2/12

Right Out: 64.803 $\pm$ 0.840  $\chi^2$ /NDF: 1718.2/17

Left In: 19.134 $\pm$ 0.547  $\chi^2$ /NDF:783.8/12

Left: 19.598 $\pm$ 0.393  $\chi^2$ /NDF: 1777.5/25

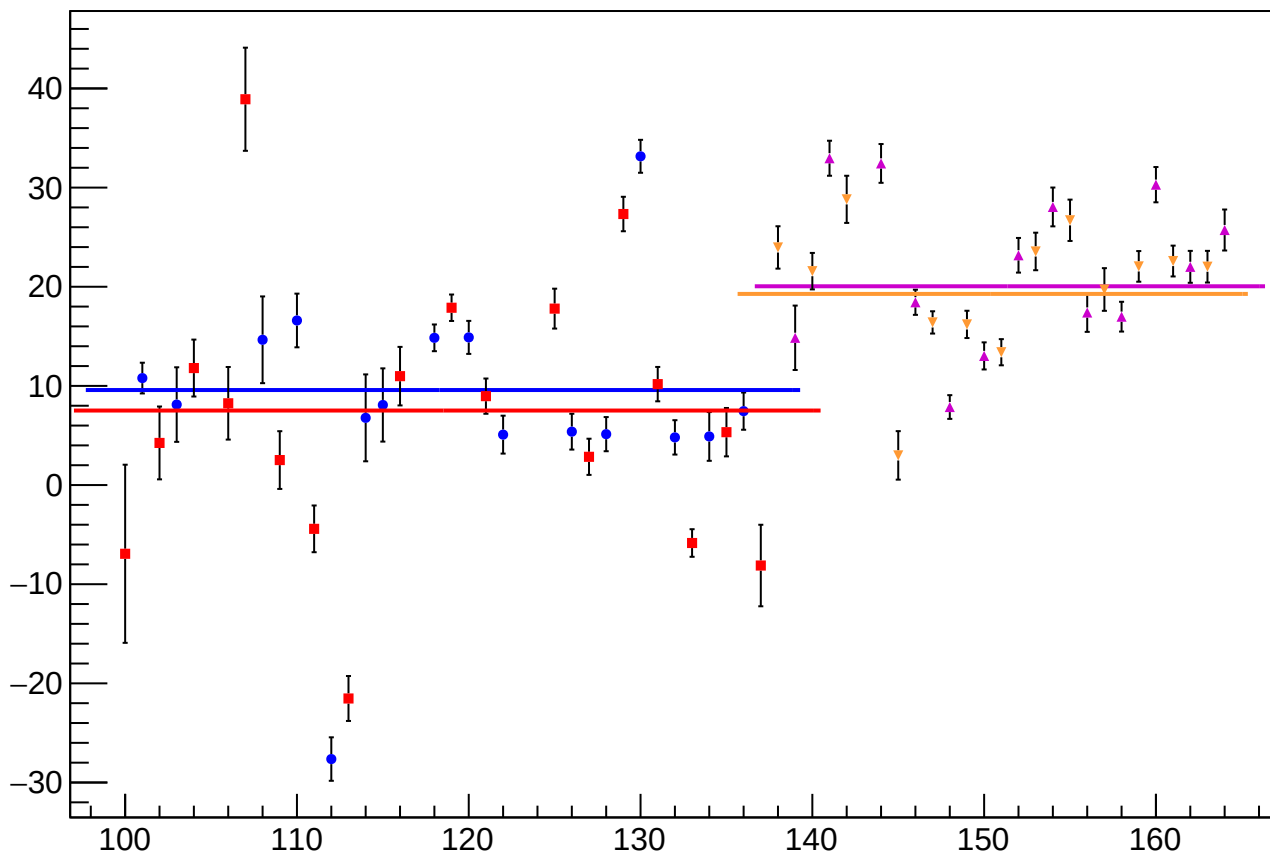
Right: 61.827 $\pm$ 0.591  $\chi^2$ /NDF: 3239.7/33

In: 31.160 $\pm$ 0.457  $\chi^2$ /NDF:3877.6/28

Out: 33.956 $\pm$ 0.468  $\chi^2$ /NDF:4663.9/30

All: 32.526 $\pm$ 0.327  $\chi^2$ /NDF: 8559.8/59

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:  $19.277 \pm 0.461$   $\chi^2/\text{NDF}$ : 126.8/12

Right Out:  $7.516 \pm 0.516$   $\chi^2/\text{NDF}$ : 569.8/17

Left In:  $20.048 \pm 0.458$   $\chi^2/\text{NDF}$ : 295.8/12

Left:  $19.665 \pm 0.325$   $\chi^2/\text{NDF}$ : 424.0/25

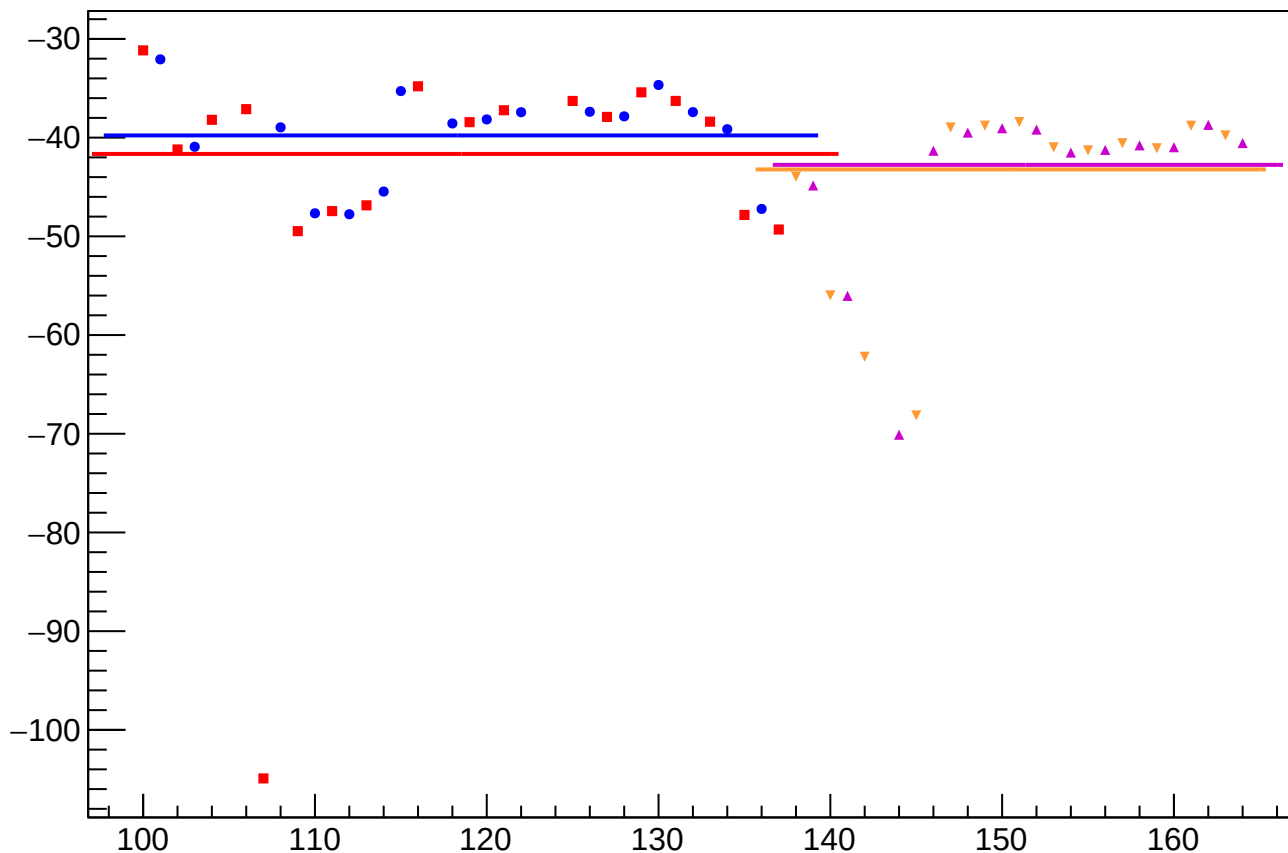
Right:  $8.579 \pm 0.359$   $\chi^2/\text{NDF}$ : 1132.5/33

In:  $15.281 \pm 0.338$   $\chi^2/\text{NDF}$ : 1087.7/28

Out:  $14.051 \pm 0.344$   $\chi^2/\text{NDF}$ : 985.6/30

All:  $14.676 \pm 0.241$   $\chi^2/\text{NDF}$ : 2079.9/59

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:  $-43.220 \pm 0.022$   $\chi^2/\text{NDF}$ : 122013.2/12

Right Out:  $-41.651 \pm 0.031$   $\chi^2/\text{NDF}$ : 94457.5/17

Left In:  $-42.757 \pm 0.022$   $\chi^2/\text{NDF}$ : 99676.3/12

Left:  $-42.981 \pm 0.016$   $\chi^2/\text{NDF}$ : 221911.0/25

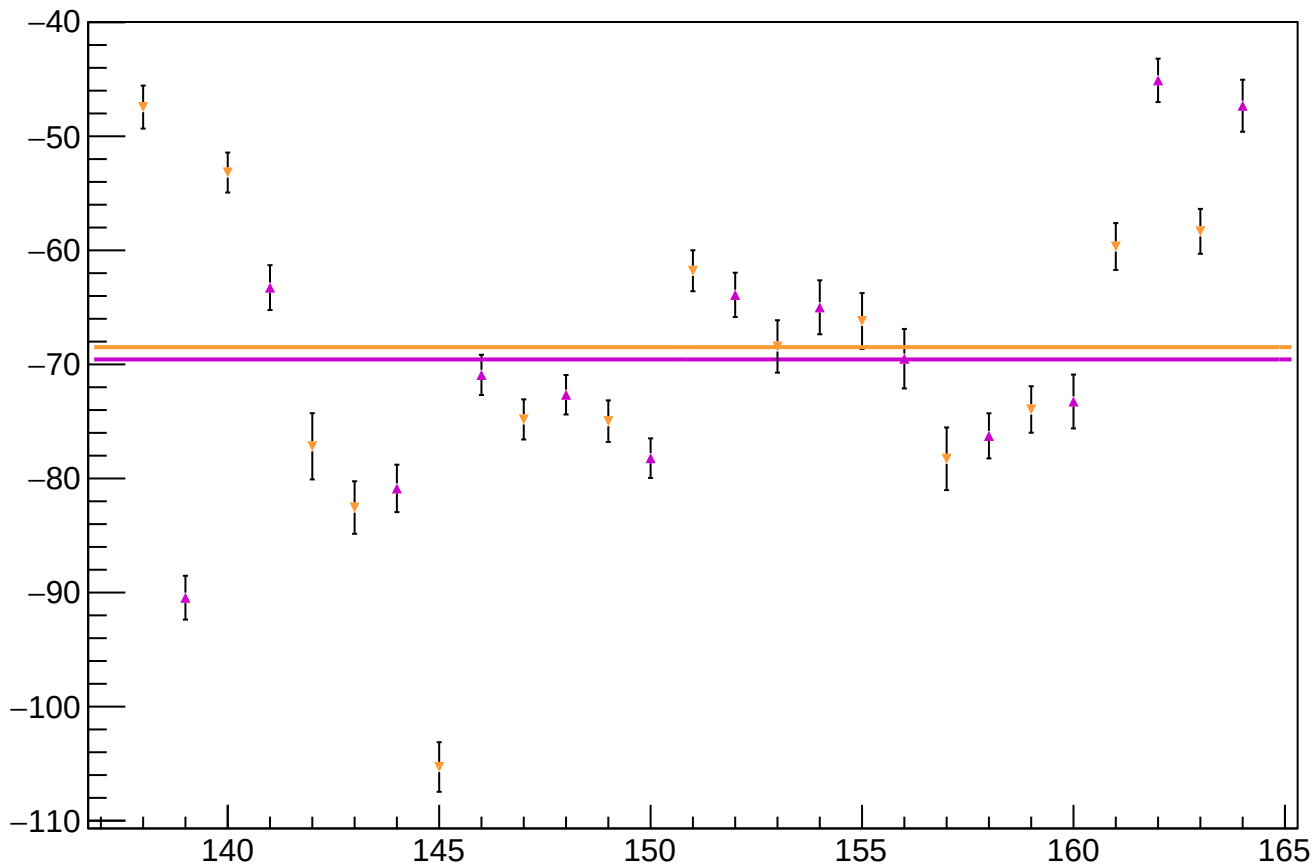
Right:  $-40.710 \pm 0.022$   $\chi^2/\text{NDF}$ : 122427.7/33

In:  $-41.785 \pm 0.018$   $\chi^2/\text{NDF}$ : 132035.1/28

Out:  $-42.687 \pm 0.018$   $\chi^2/\text{NDF}$ : 218141.7/30

All:  $-42.225 \pm 0.013$   $\chi^2/\text{NDF}$ : 351436.6/59

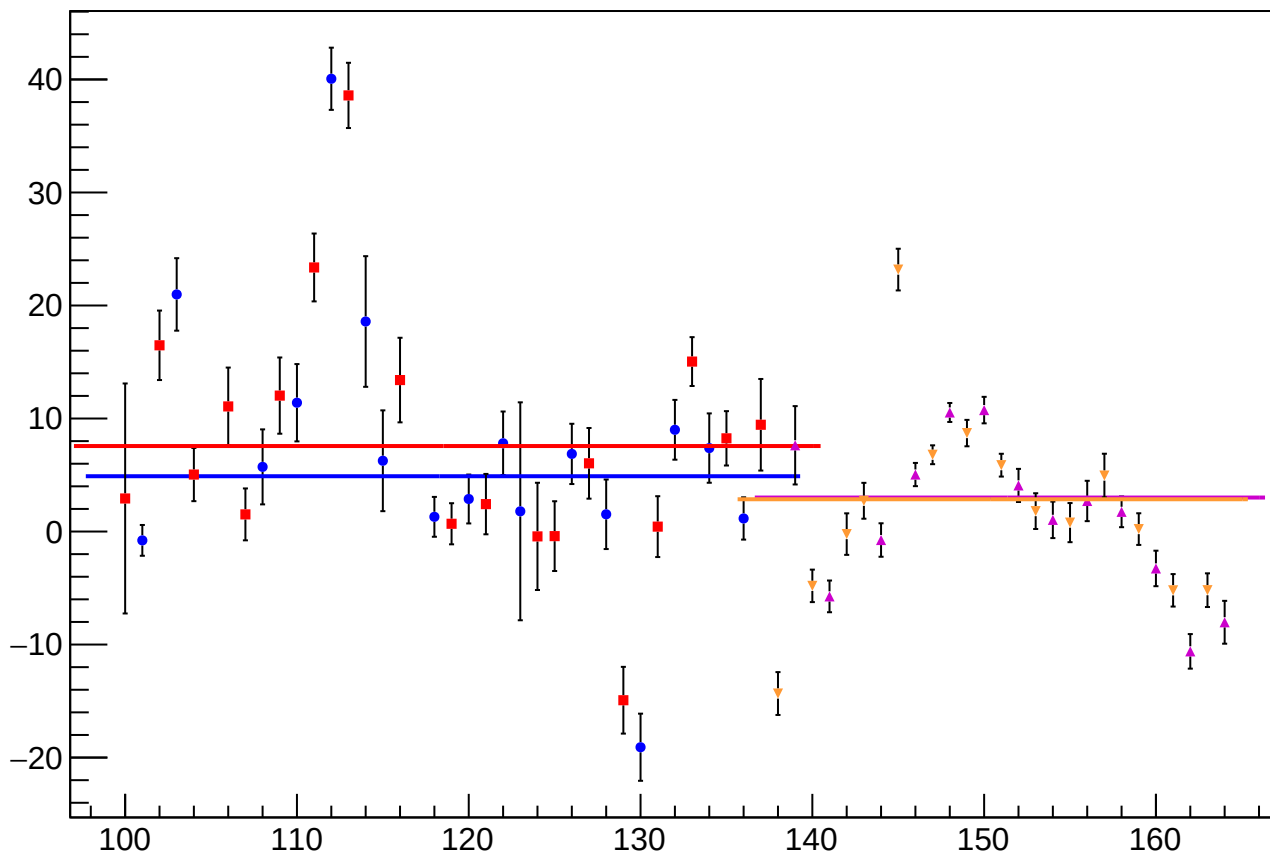
reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -68.484+/-0.552  $\chi^2/\text{NDF}$ : 639.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -69.564+/-0.555  $\chi^2/\text{NDF}$ : 473.3/12

Left: -69.021+/-0.391  $\chi^2/\text{NDF}$ : 1114.5/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -69.564+/-0.555  $\chi^2/\text{NDF}$ : 473.3/12  
 Out: -68.484+/-0.552  $\chi^2/\text{NDF}$ : 639.2/13  
 All: -69.021+/-0.391  $\chi^2/\text{NDF}$ : 1114.5/26

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:  $2.856 \pm 0.369$   $\chi^2/\text{NDF}$ : 358.3/13

Right Out:  $7.565 \pm 0.652$   $\chi^2/\text{NDF}$ : 270.2/18

Left In:  $3.007 \pm 0.379$   $\chi^2/\text{NDF}$ : 306.9/12

Left:  $2.930 \pm 0.264$   $\chi^2/\text{NDF}$ : 665.3/26

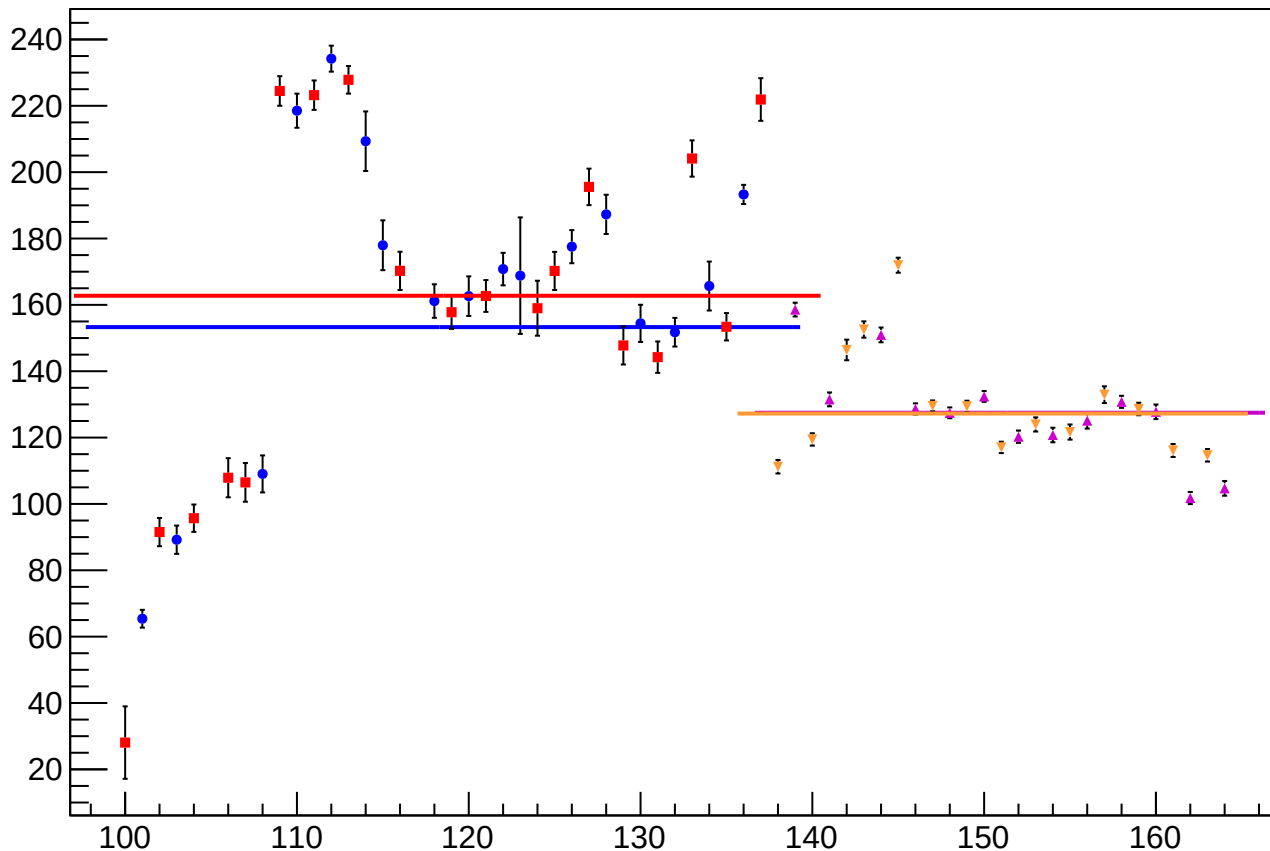
Right:  $6.165 \pm 0.450$   $\chi^2/\text{NDF}$ : 574.4/35

In:  $3.519 \pm 0.324$   $\chi^2/\text{NDF}$ : 609.0/29

Out:  $3.999 \pm 0.321$   $\chi^2/\text{NDF}$ : 668.0/32

All:  $3.761 \pm 0.228$   $\chi^2/\text{NDF}$ : 1278.1/62

# 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: 127.245 $\pm$ 0.540  $\chi^2$ /NDF: 740.3/13

Right Out: 162.747 $\pm$ 1.177  $\chi^2$ /NDF: 1708.7/18

Left In: 127.487 $\pm$ 0.539  $\chi^2$ /NDF: 678.8/12

Left: 127.366 $\pm$ 0.381  $\chi^2$ /NDF: 1419.2/26

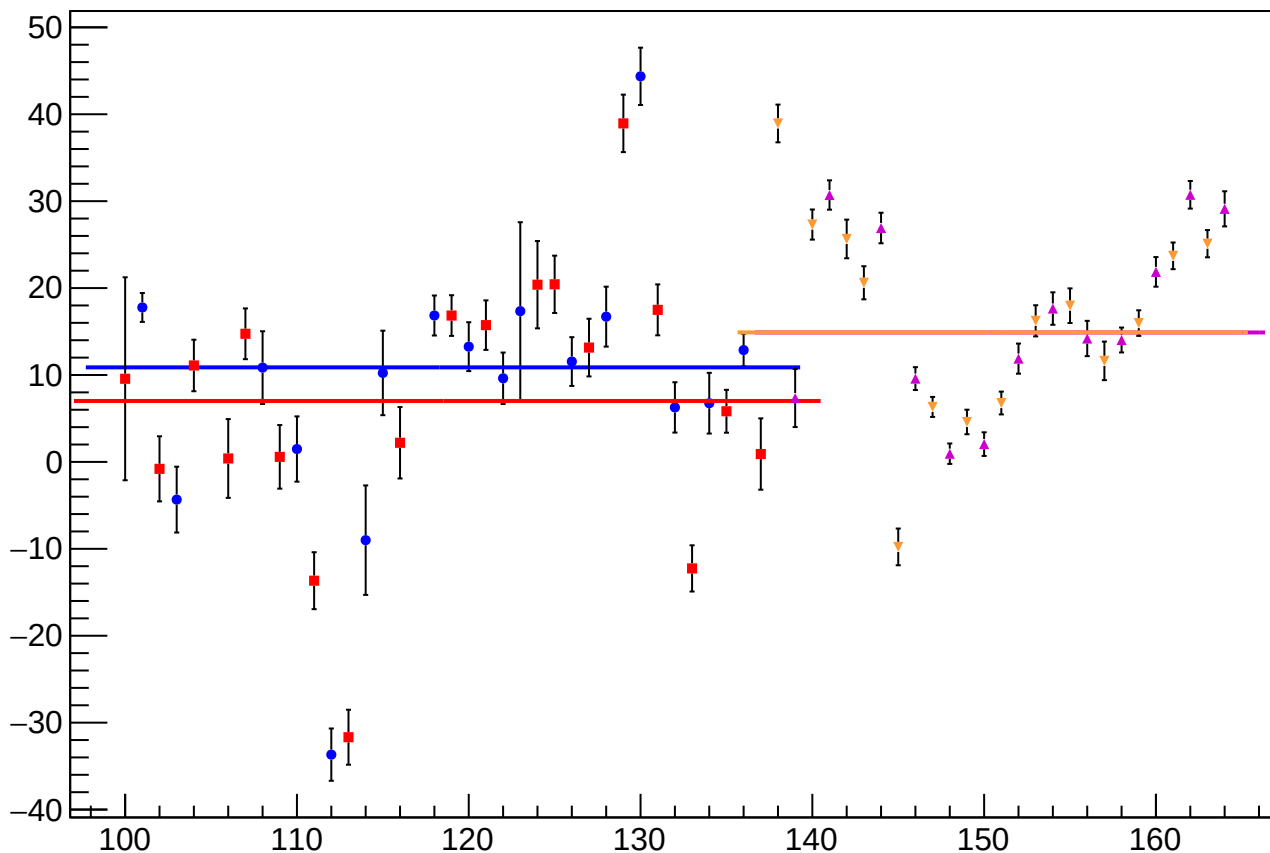
Right: 157.893 $\pm$ 0.820  $\chi^2$ /NDF: 4008.6/35

In: 132.164 $\pm$ 0.487  $\chi^2$ /NDF: 3361.9/29

Out: 133.421 $\pm$ 0.491  $\chi^2$ /NDF: 3201.0/32

All: 132.788 $\pm$ 0.346  $\chi^2$ /NDF: 6566.2/62

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:  $14.901 \pm 0.441$   $\chi^2/\text{NDF}: 570.9/13$

Right Out:  $7.014 \pm 0.748$   $\chi^2/\text{NDF}: 424.5/18$

Left In:  $14.893 \pm 0.450$   $\chi^2/\text{NDF}: 557.7/12$

Left:  $14.897 \pm 0.315$   $\chi^2/\text{NDF}: 1128.6/26$

Right:  $9.038 \pm 0.516$   $\chi^2/\text{NDF}: 826.6/35$

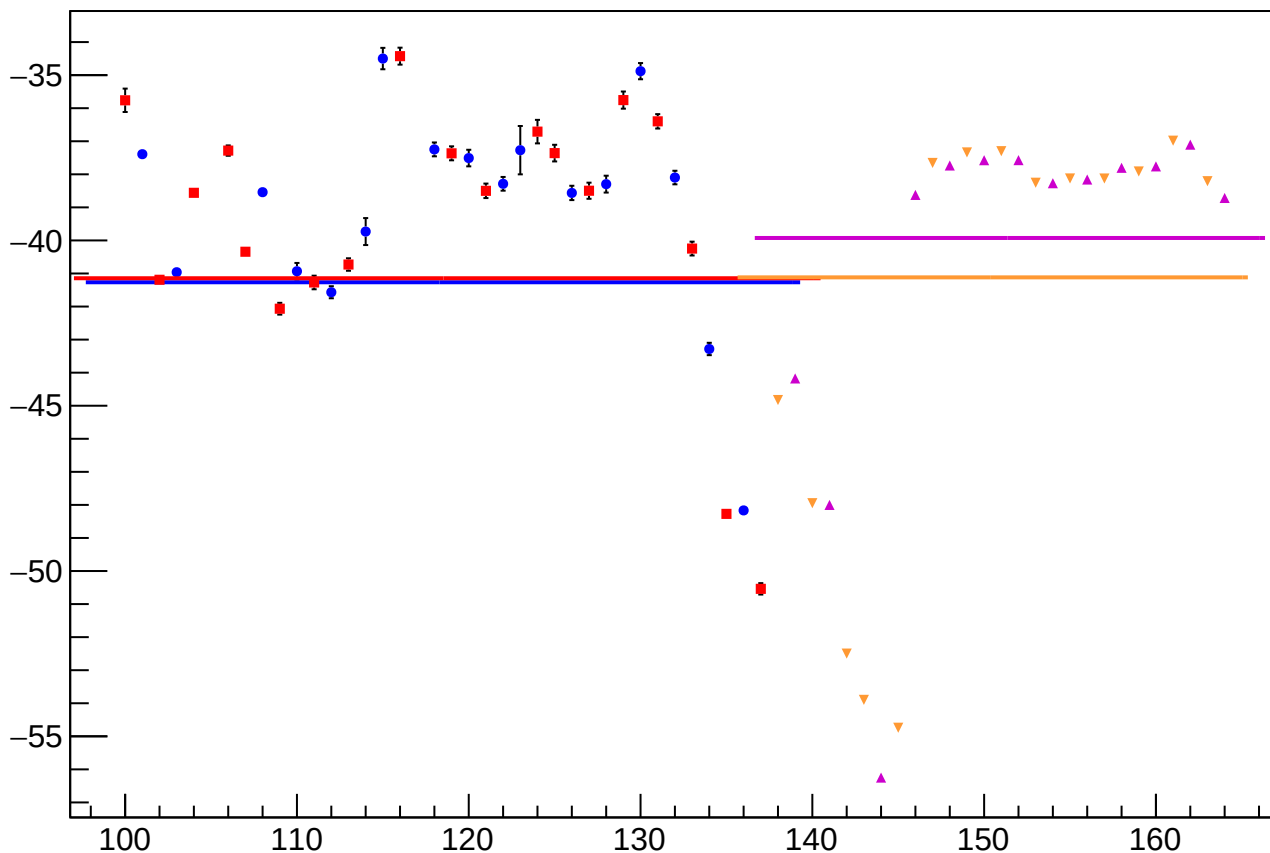
In:  $13.751 \pm 0.380$   $\chi^2/\text{NDF}: 968.4/29$

Out:  $12.868 \pm 0.380$   $\chi^2/\text{NDF}: 1078.0/32$

All:  $13.309 \pm 0.269$   $\chi^2/\text{NDF}: 2049.0/62$



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:  $-41.117 \pm 0.021$   $\chi^2/\text{NDF}: 75565.4/13$

Right Out:  $-41.144 \pm 0.039$   $\chi^2/\text{NDF}: 12218.7/18$

Left In:  $-39.926 \pm 0.021$   $\chi^2/\text{NDF}: 48438.6/12$

Left:  $-40.517 \pm 0.015$   $\chi^2/\text{NDF}: 125561.0/26$

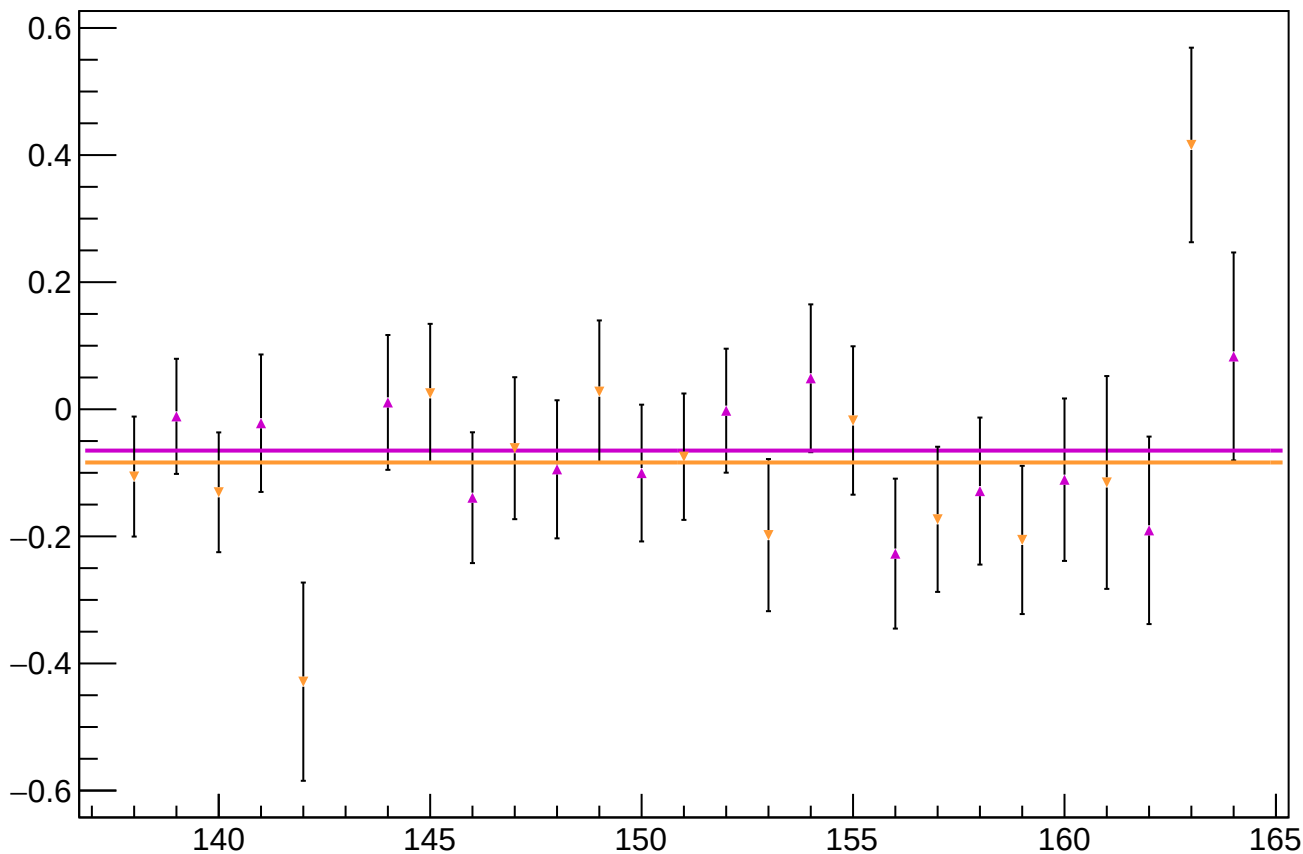
Right:  $-41.205 \pm 0.027$   $\chi^2/\text{NDF}: 24793.7/35$

In:  $-40.239 \pm 0.019$   $\chi^2/\text{NDF}: 61936.3/29$

Out:  $-41.123 \pm 0.019$   $\chi^2/\text{NDF}: 87784.4/32$

All:  $-40.679 \pm 0.013$   $\chi^2/\text{NDF}: 150841.0/62$

reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.084 $\pm$ 0.032  $\chi^2$ /NDF:20.8/12

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

Left In: -0.065 $\pm$ 0.031  $\chi^2$ /NDF:7.0/12

Left: -0.074 $\pm$ 0.022  $\chi^2$ /NDF: 28.0/25

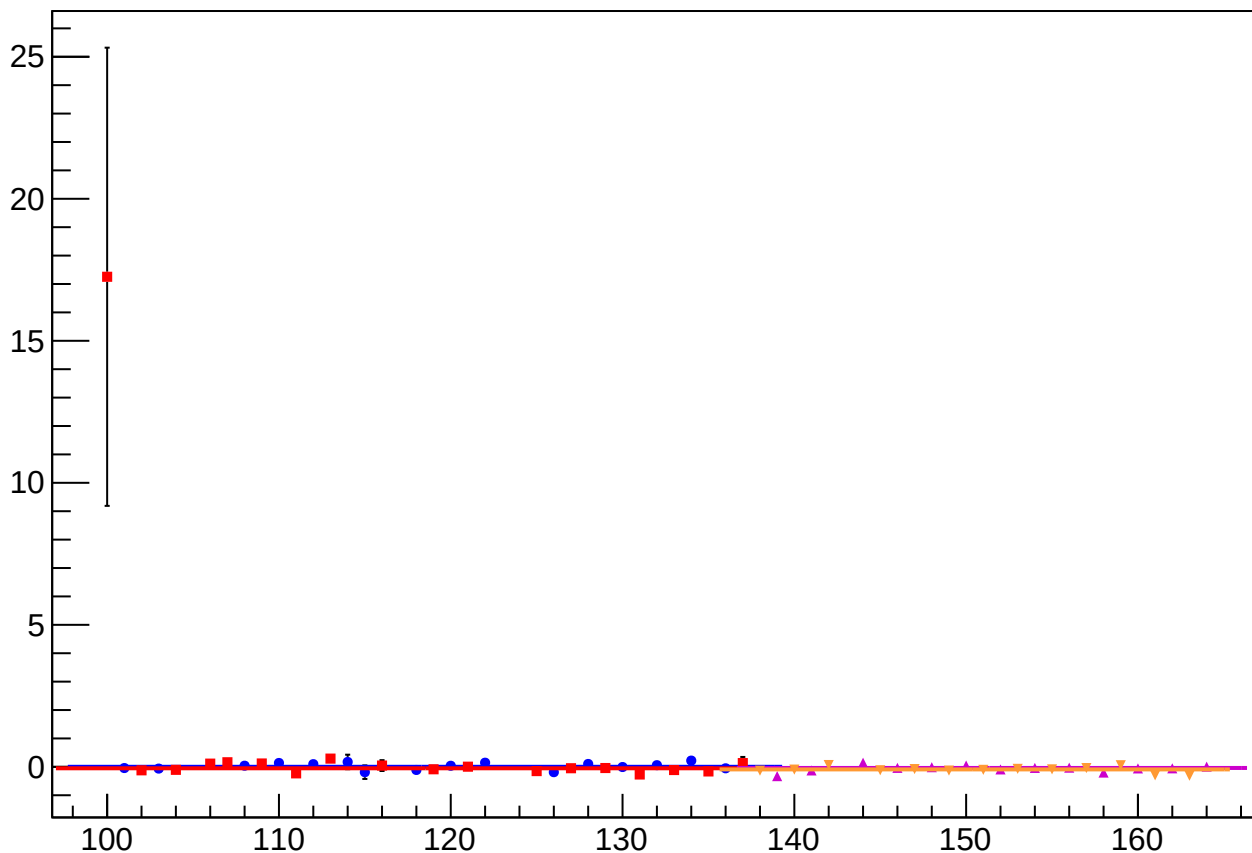
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.065 $\pm$ 0.031  $\chi^2$ /NDF:7.0/12

Out: -0.084 $\pm$ 0.032  $\chi^2$ /NDF:20.8/12

All: -0.074 $\pm$ 0.022  $\chi^2$ /NDF: 28.0/25

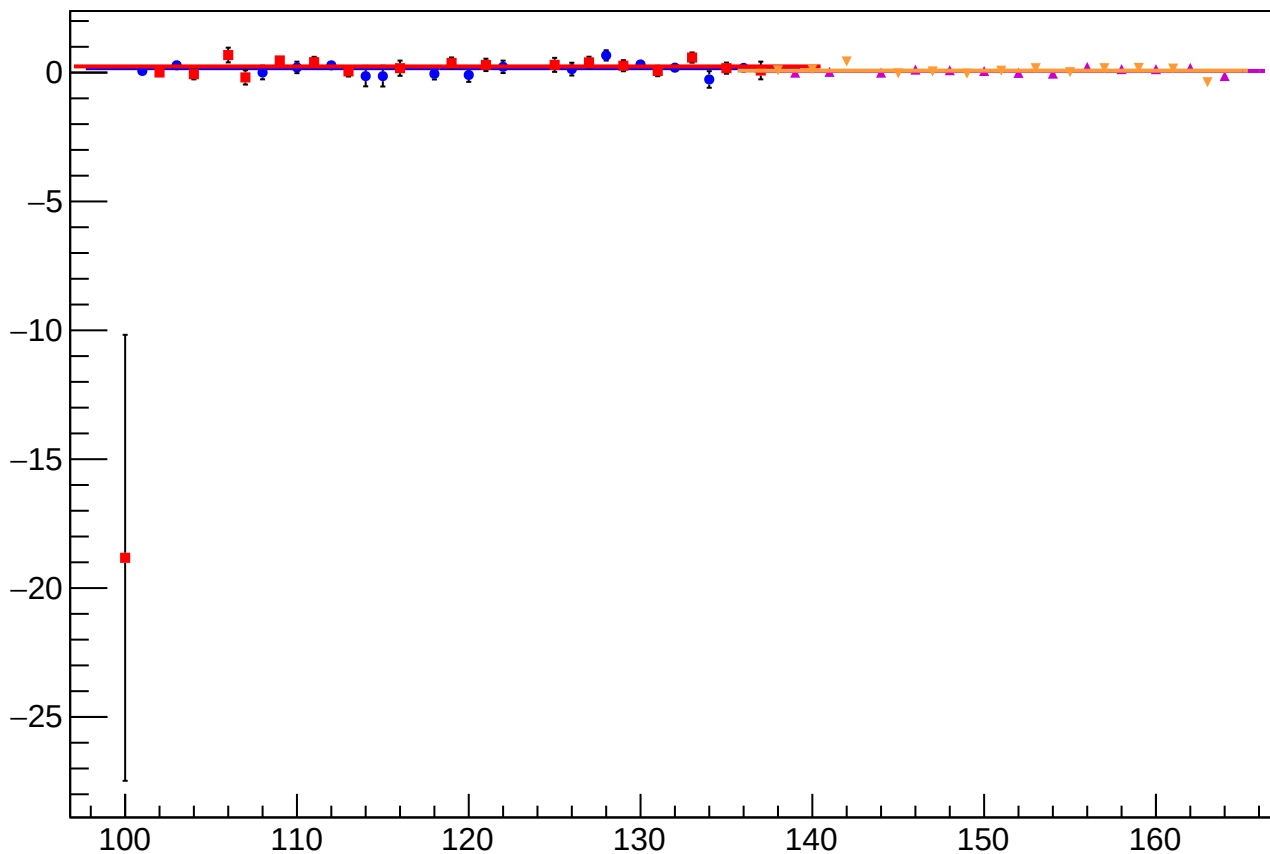
reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.002 \pm 0.028$   $\chi^2/\text{NDF}: 12.5/15$   
 Left Out:  $-0.090 \pm 0.022$   $\chi^2/\text{NDF}: 13.7/12$   
 Right Out:  $-0.051 \pm 0.029$   $\chi^2/\text{NDF}: 25.8/17$   
 Left In:  $-0.039 \pm 0.022$   $\chi^2/\text{NDF}: 16.6/12$

Left:  $-0.065 \pm 0.015$   $\chi^2/\text{NDF}: 33.0/25$   
 Right:  $-0.024 \pm 0.020$   $\chi^2/\text{NDF}: 40.0/33$   
 In:  $-0.024 \pm 0.017$   $\chi^2/\text{NDF}: 30.5/28$   
 Out:  $-0.076 \pm 0.018$   $\chi^2/\text{NDF}: 40.6/30$   
 All:  $-0.050 \pm 0.012$   $\chi^2/\text{NDF}: 75.6/59$

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.171 $\pm$ 0.052  $\chi^2$ /NDF: 13.7/15

Left Out: 0.075 $\pm$ 0.031  $\chi^2$ /NDF:19.2/12

Right Out: 0.239 $\pm$ 0.054  $\chi^2$ /NDF: 21.8/17

Left In: 0.062 $\pm$ 0.030  $\chi^2$ /NDF:7.8/12

Left: 0.068 $\pm$ 0.022  $\chi^2$ /NDF: 27.1/25

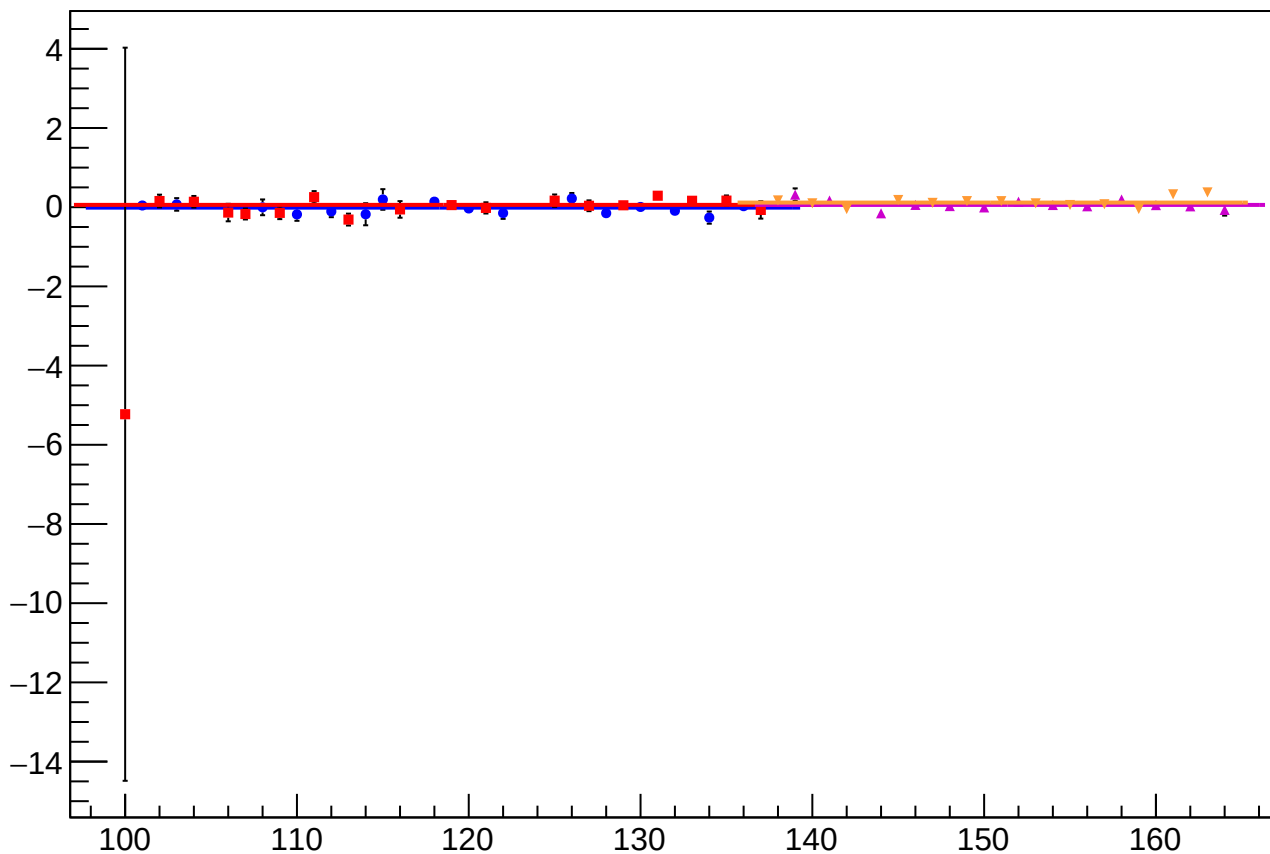
Right: 0.204 $\pm$ 0.038  $\chi^2$ /NDF: 36.3/33

In: 0.089 $\pm$ 0.026  $\chi^2$ /NDF:24.7/28

Out: 0.116 $\pm$ 0.027  $\chi^2$ /NDF:48.0/30

All: 0.102 $\pm$ 0.019  $\chi^2$ /NDF: 73.2/59

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:  $0.117 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.4/12

Right Out:  $0.059 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.6/17

Left In:  $0.057 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.9/12

Left:  $0.087 \pm 0.018$   $\chi^2/\text{NDF}$ : 32.0/25

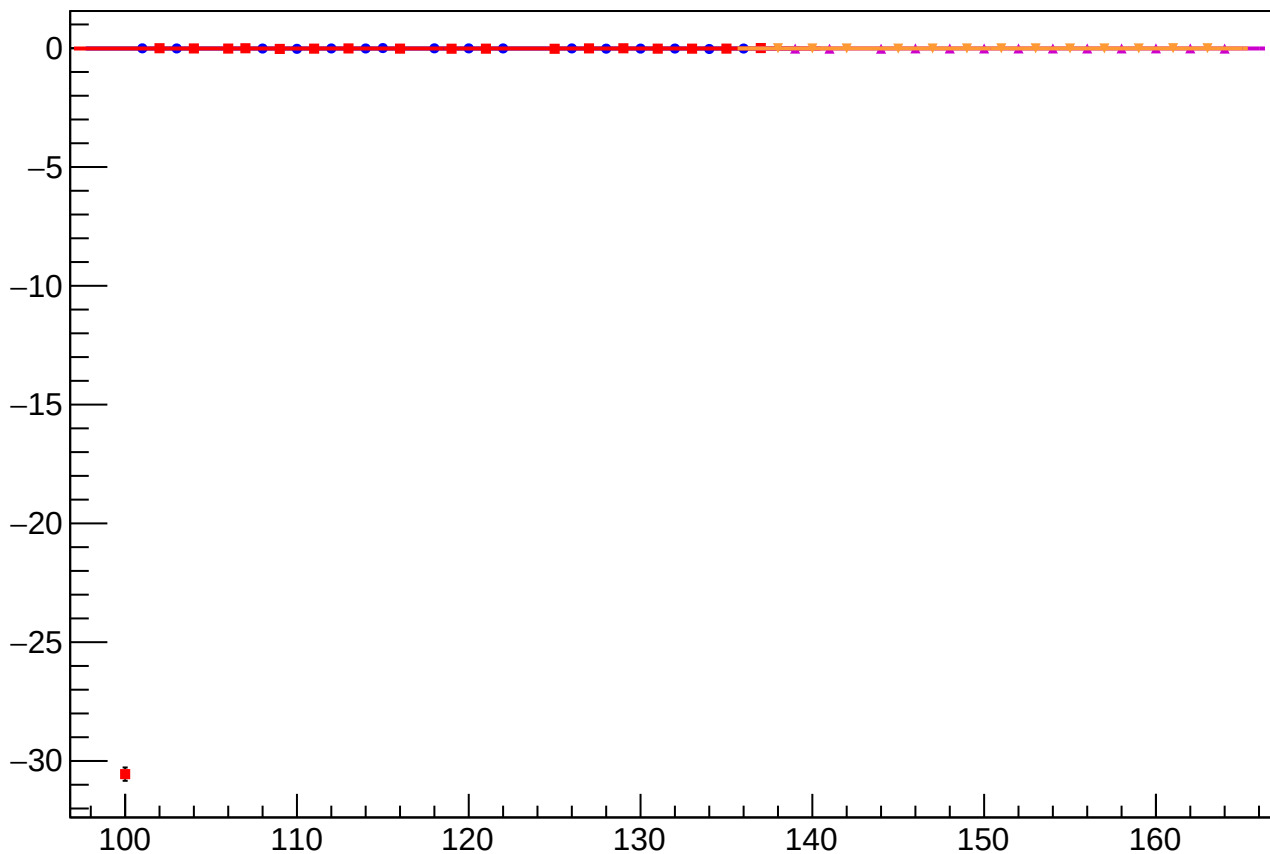
Right:  $0.022 \pm 0.023$   $\chi^2/\text{NDF}$ : 36.5/33

In:  $0.031 \pm 0.020$   $\chi^2/\text{NDF}$ : 31.4/28

Out:  $0.095 \pm 0.021$   $\chi^2/\text{NDF}$ : 36.9/30

All:  $0.062 \pm 0.014$   $\chi^2/\text{NDF}$ : 73.1/59

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.9/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 11.9/12

Right Out:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 11891.5/17

Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 12.4/12

Left:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 26.6/25

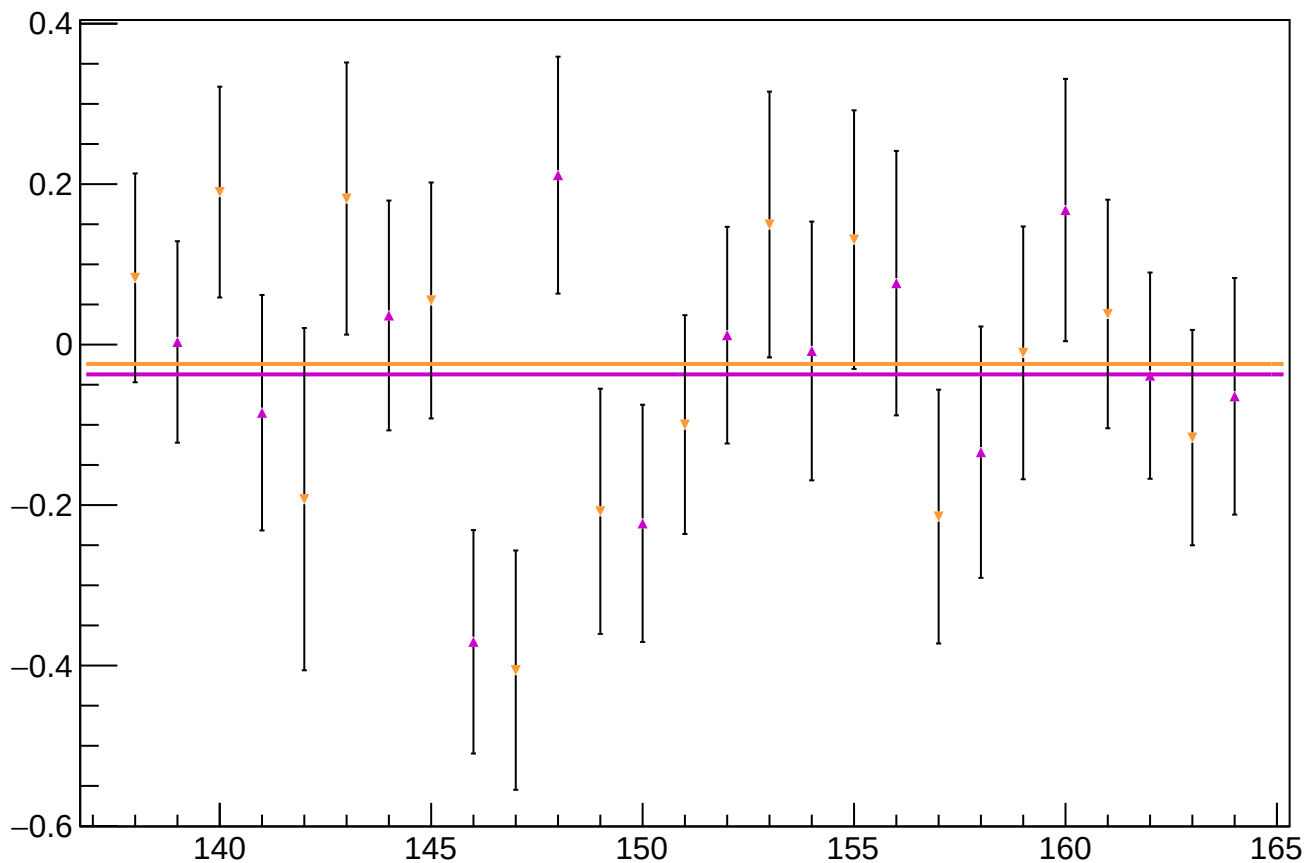
Right:  $-0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 11904.4/33

In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 25.6/28

Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 11906.8/30

All:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 11933.8/59

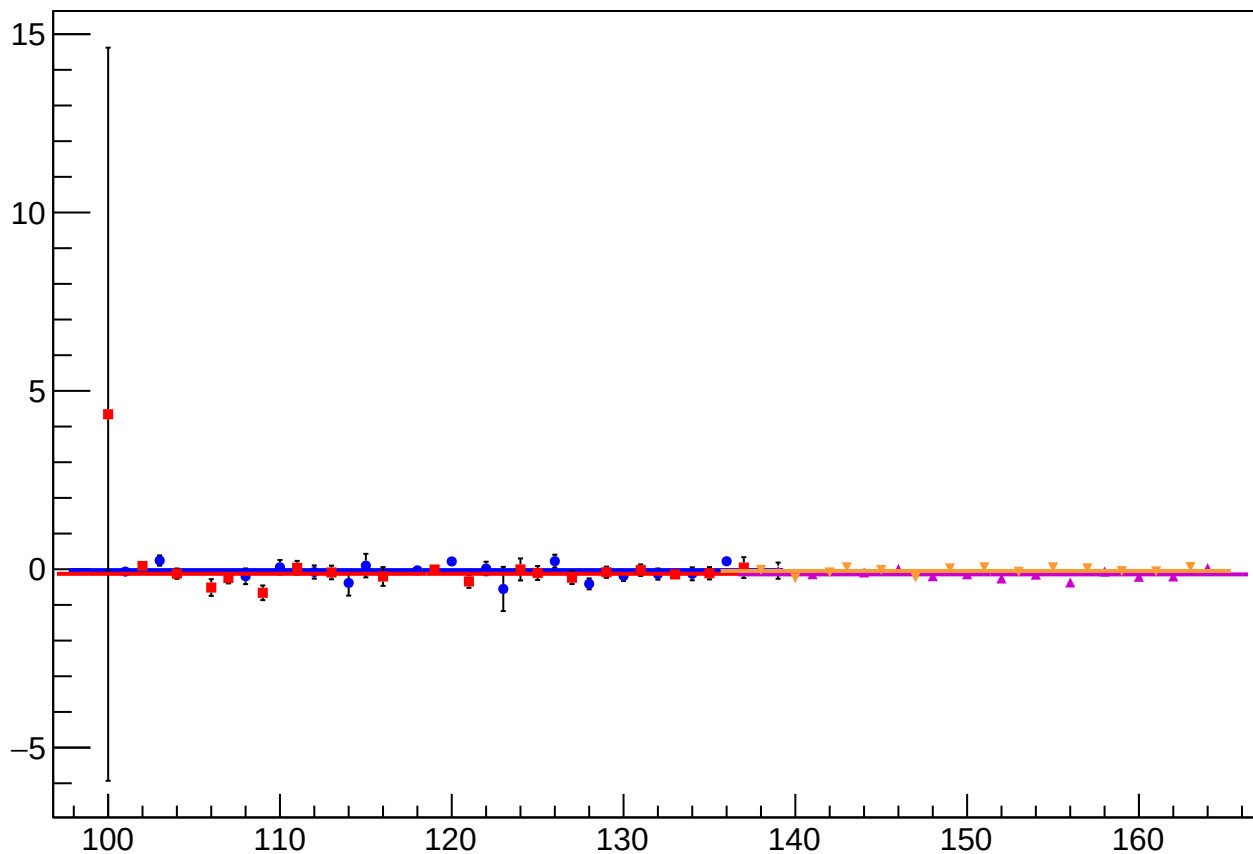
reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.024 $\pm$ 0.040  $\chi^2$ /NDF:18.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.037 $\pm$ 0.040  $\chi^2$ /NDF:13.2/12

Left: -0.031 $\pm$ 0.028  $\chi^2$ /NDF: 31.5/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.037 $\pm$ 0.040  $\chi^2$ /NDF:13.2/12  
 Out: -0.024 $\pm$ 0.040  $\chi^2$ /NDF:18.2/13  
 All: -0.031 $\pm$ 0.028  $\chi^2$ /NDF: 31.5/26

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:  $-0.049 \pm 0.028$   $\chi^2/\text{NDF}$ : 16.0/13

Right Out:  $-0.128 \pm 0.039$   $\chi^2/\text{NDF}$ : 17.6/18

Left In:  $-0.144 \pm 0.029$   $\chi^2/\text{NDF}$ : 13.1/12

Left:  $-0.095 \pm 0.020$   $\chi^2/\text{NDF}$ : 34.9/26

Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}$ : 44.7/35

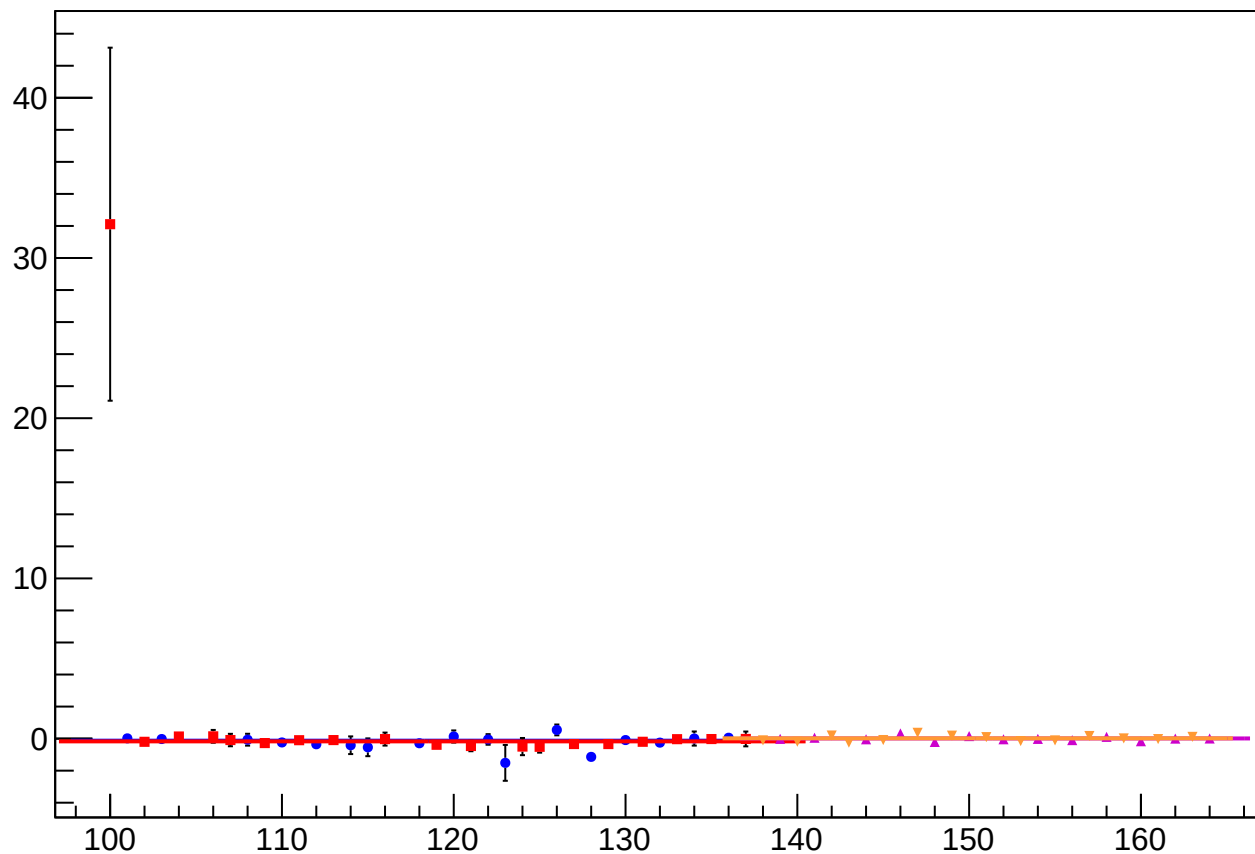
In:  $-0.099 \pm 0.022$   $\chi^2/\text{NDF}$ : 43.2/29

Out:  $-0.075 \pm 0.023$   $\chi^2/\text{NDF}$ : 36.3/32

All:  $-0.087 \pm 0.016$   $\chi^2/\text{NDF}$ : 80.1/62



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:  $0.018 \pm 0.039$   $\chi^2/\text{NDF}: 17.8/13$

Right Out:  $-0.172 \pm 0.071$   $\chi^2/\text{NDF}: 15.0/18$

Left In:  $0.011 \pm 0.039$   $\chi^2/\text{NDF}: 11.8/12$

Left:  $0.014 \pm 0.028$   $\chi^2/\text{NDF}: 29.6/26$

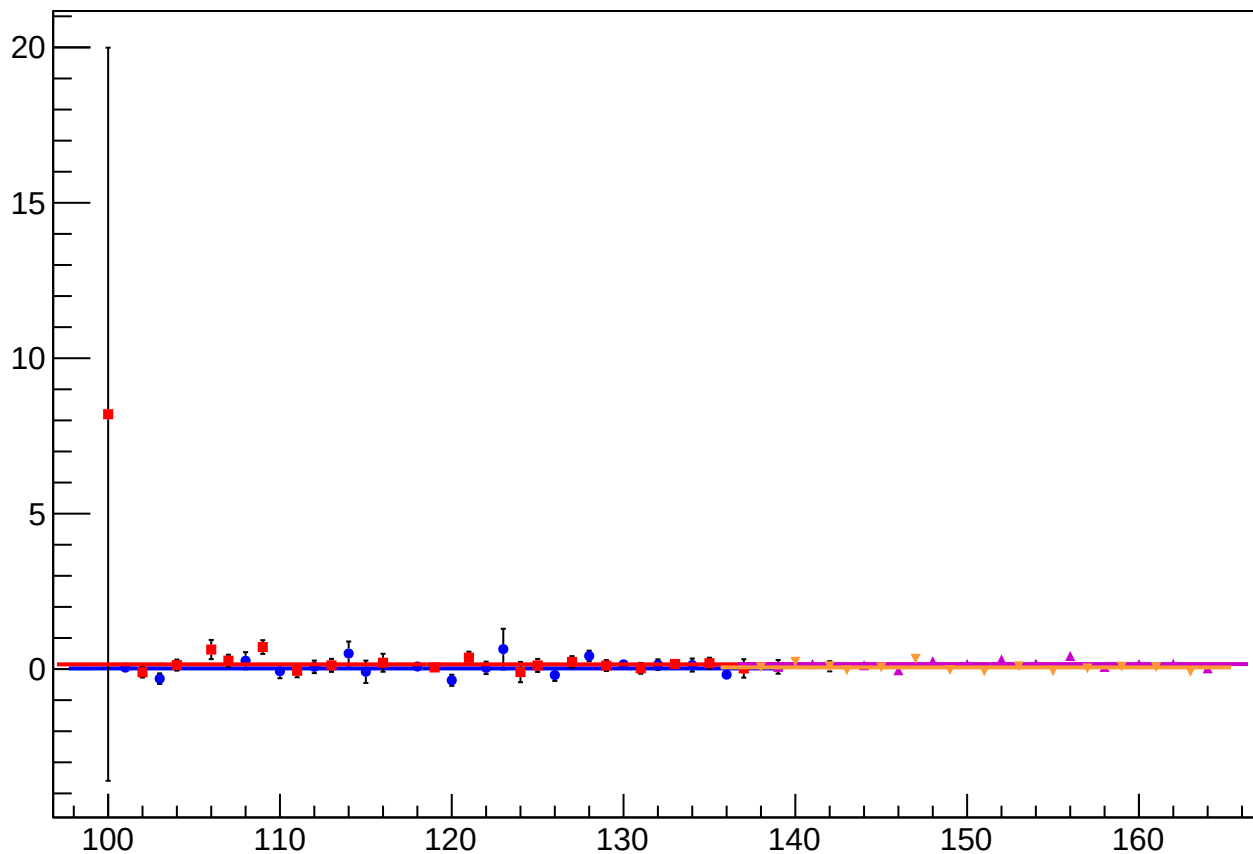
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}: 39.0/35$

In:  $-0.025 \pm 0.034$   $\chi^2/\text{NDF}: 38.8/29$

Out:  $-0.026 \pm 0.034$   $\chi^2/\text{NDF}: 38.3/32$

All:  $-0.026 \pm 0.024$   $\chi^2/\text{NDF}: 77.1/62$

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: 0.054+/-0.033  $\chi^2/\text{NDF}$ : 15.1/13

Right Out: 0.152+/-0.045  $\chi^2/\text{NDF}$ : 16.2/18

Left In: 0.161+/-0.033  $\chi^2/\text{NDF}$ : 12.1/12

Left: 0.107+/-0.023  $\chi^2/\text{NDF}$ : 32.4/26

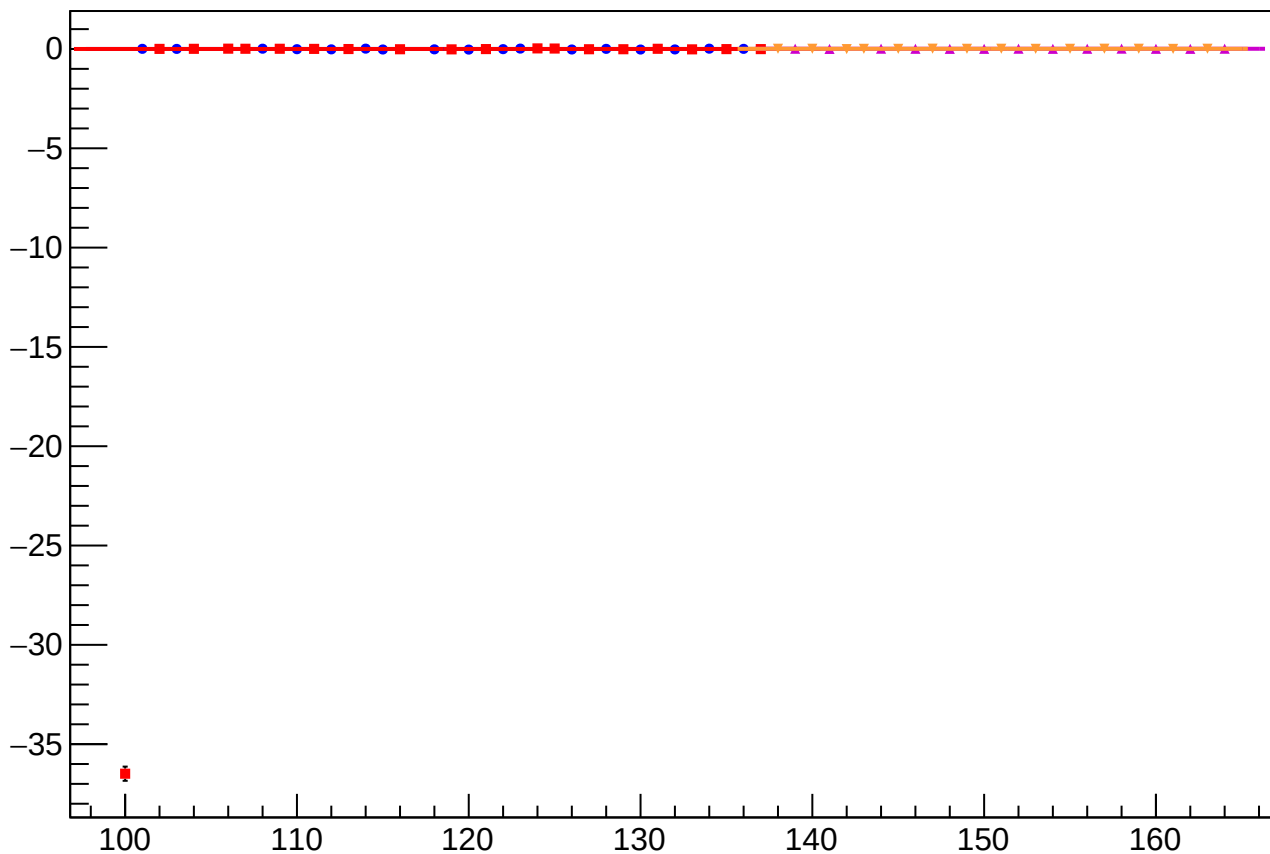
Right: 0.082+/-0.031  $\chi^2/\text{NDF}$ : 43.2/35

In: 0.107+/-0.026  $\chi^2/\text{NDF}$ : 41.4/29

Out: 0.088+/-0.027  $\chi^2/\text{NDF}$ : 34.4/32

All: 0.098+/-0.019  $\chi^2/\text{NDF}$ : 76.1/62

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:6.6/13

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10449.1/18

Left In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF:5.7/12

Left: 0.011 $\pm$ 0.001  $\chi^2$ /NDF: 12.3/26

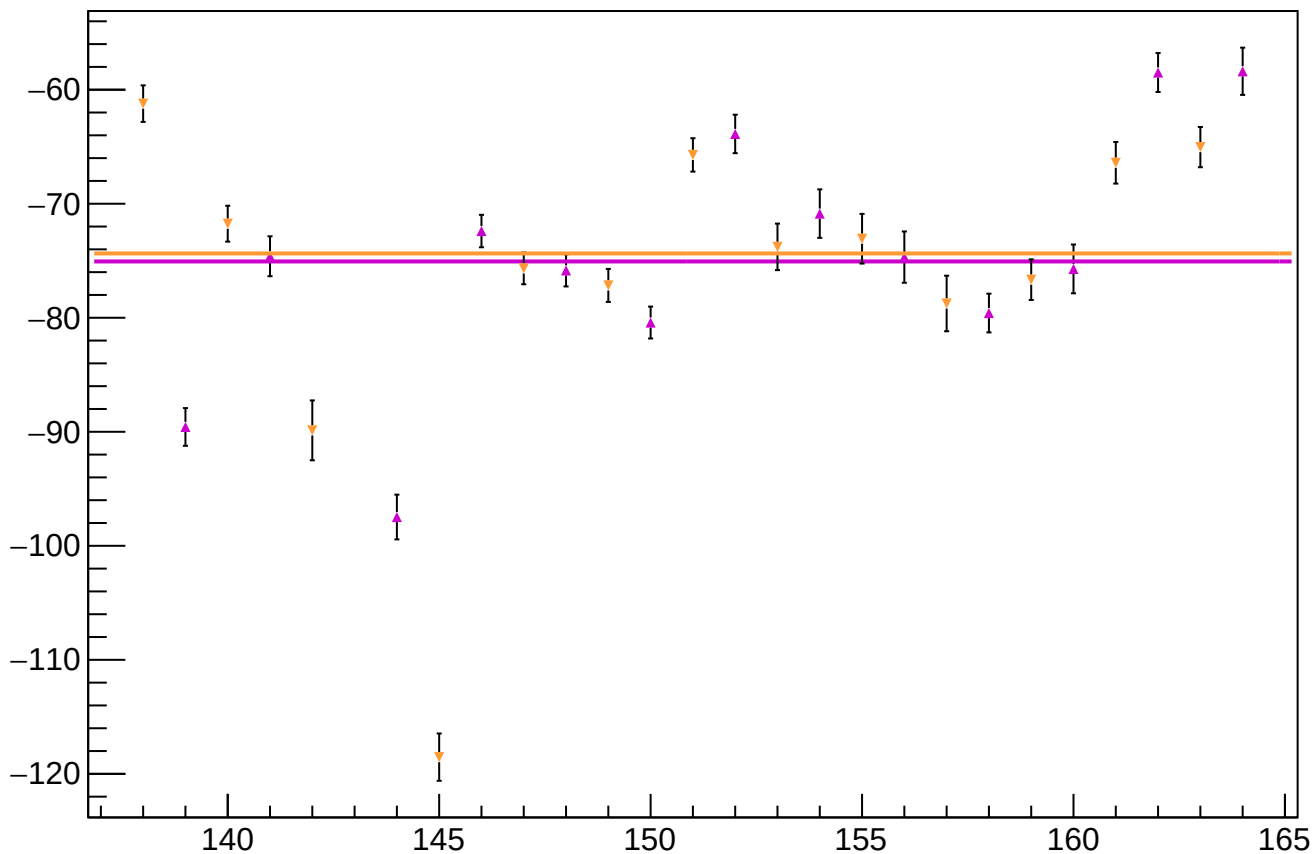
Right: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10481.5/35

In: 0.008 $\pm$ 0.001  $\chi^2$ /NDF:51.4/29

Out: 0.008 $\pm$ 0.001  $\chi^2$ /NDF:10467.7/32

All: 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 10519.1/62

reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



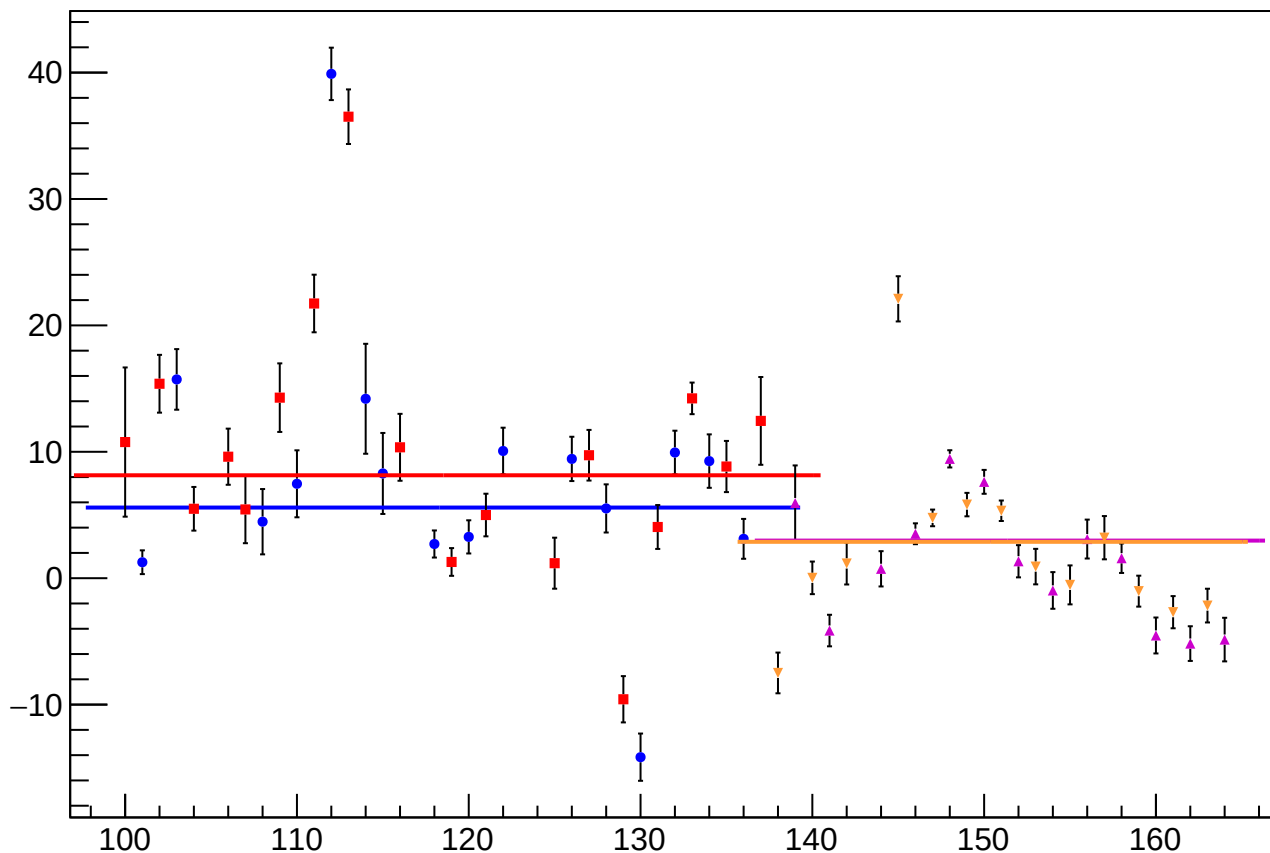
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -74.359 $\pm$ 0.489  $\chi^2$ /NDF:649.6/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -75.062 $\pm$ 0.478  $\chi^2$ /NDF:439.7/12

Left: -74.718 $\pm$ 0.342  $\chi^2$ /NDF: 1090.4/25  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -75.062 $\pm$ 0.478  $\chi^2$ /NDF:439.7/12  
 Out: -74.359 $\pm$ 0.489  $\chi^2$ /NDF:649.6/12

All: -74.718 $\pm$ 0.342  $\chi^2$ /NDF: 1090.4/25

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: 2.879 $\pm$ 0.320  $\chi^2$ /NDF:240.9/12

Right Out: 8.142 $\pm$ 0.454  $\chi^2$ /NDF: 407.7/17

Left In: 2.975 $\pm$ 0.323  $\chi^2$ /NDF:244.9/12

Left: 2.926 $\pm$ 0.227  $\chi^2$ /NDF: 485.8/25

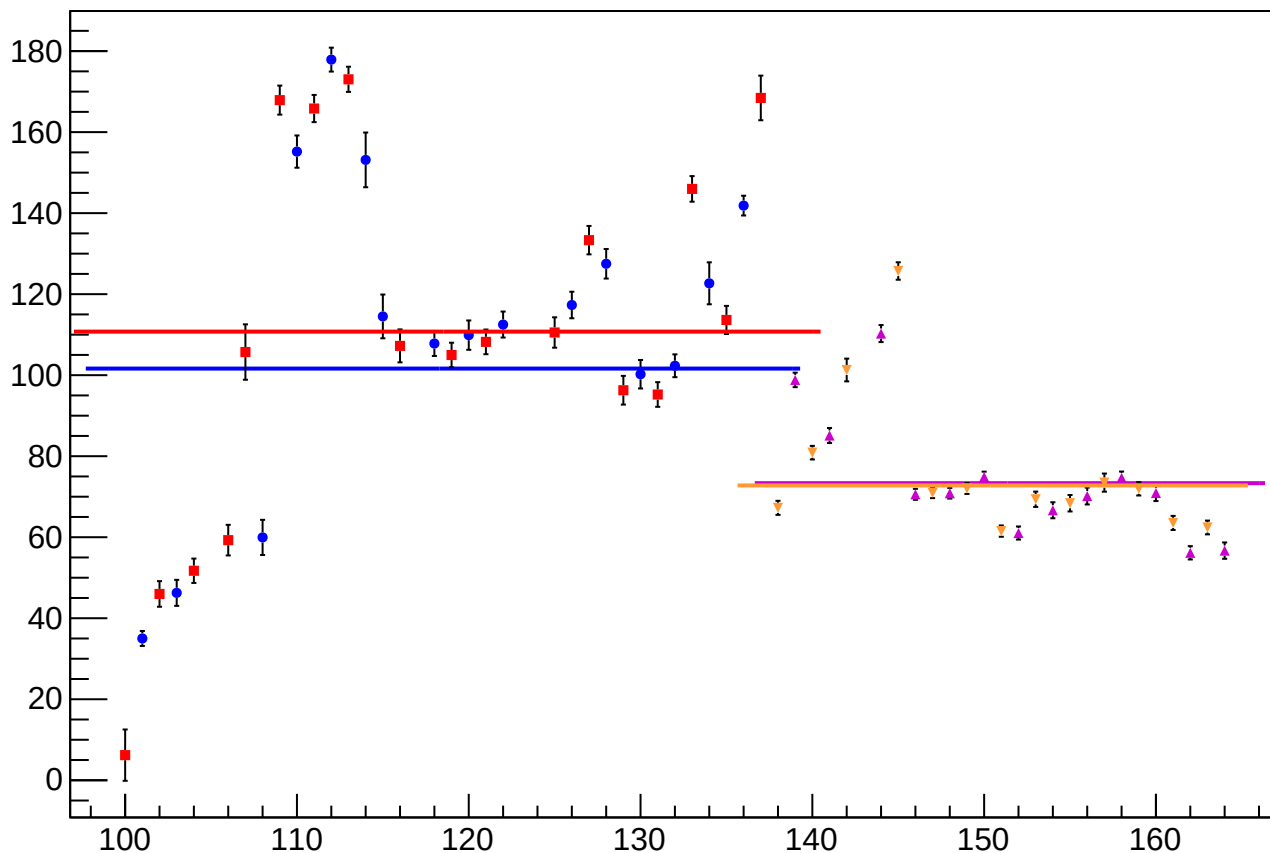
Right: 6.778 $\pm$ 0.310  $\chi^2$ /NDF: 887.4/33

In: 3.934 $\pm$ 0.257  $\chi^2$ /NDF:731.8/28

Out: 4.628 $\pm$ 0.261  $\chi^2$ /NDF:738.5/30

All: 4.274 $\pm$ 0.183  $\chi^2$ /NDF: 1473.9/59

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $101.631 \pm 0.807$   $\chi^2/\text{NDF}$ : 2978.9/15

Left Out:  $72.779 \pm 0.474$   $\chi^2/\text{NDF}$ : 881.0/12

Right Out:  $110.756 \pm 0.836$   $\chi^2/\text{NDF}$ : 2513.0/17

Left In:  $73.342 \pm 0.463$   $\chi^2/\text{NDF}$ : 811.7/12

Left:  $73.067 \pm 0.331$   $\chi^2/\text{NDF}$ : 1693.4/25

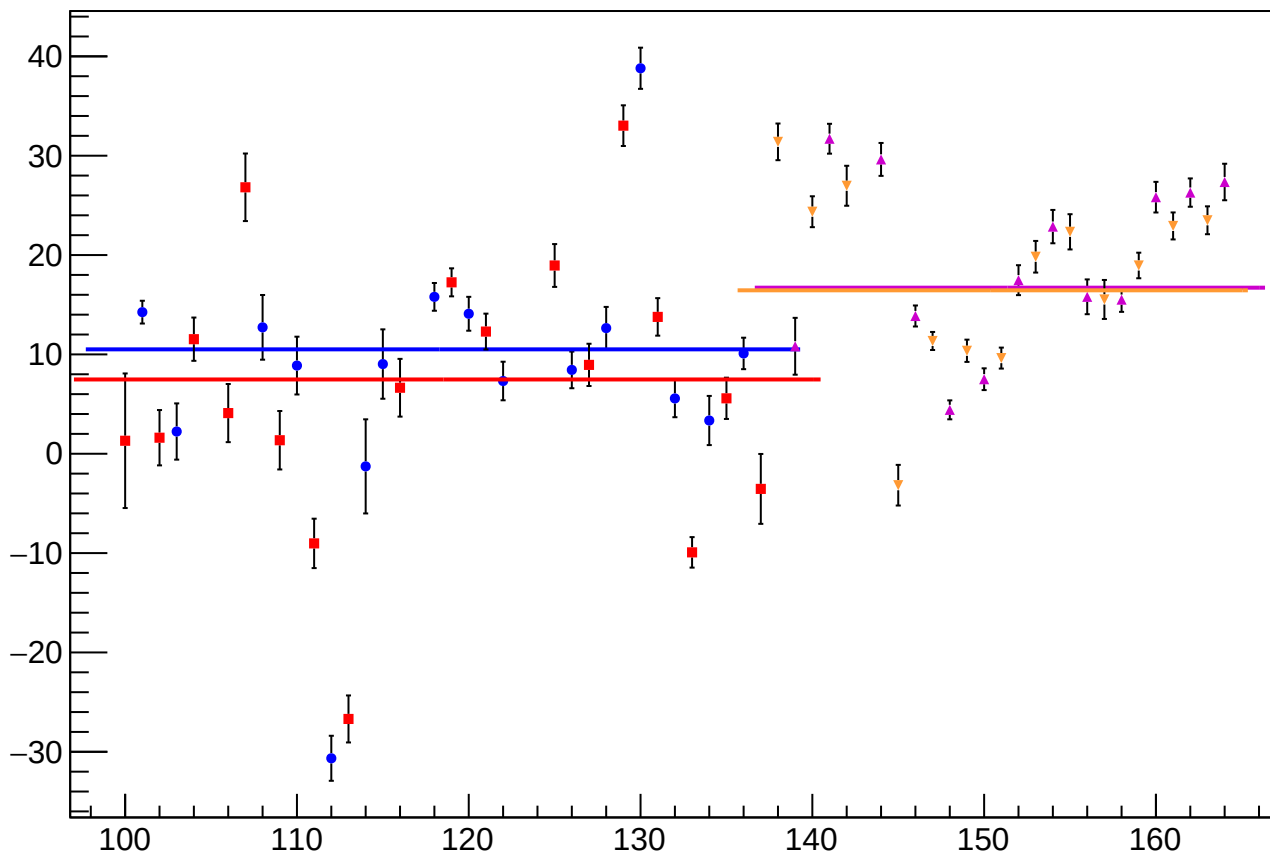
Right:  $106.031 \pm 0.581$   $\chi^2/\text{NDF}$ : 5553.5/33

In:  $80.343 \pm 0.401$   $\chi^2/\text{NDF}$ : 4715.4/28

Out:  $82.027 \pm 0.413$   $\chi^2/\text{NDF}$ : 4954.3/30

All:  $81.162 \pm 0.288$   $\chi^2/\text{NDF}$ : 9678.2/59

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: 16.450 $\pm$ 0.386  $\chi^2$ /NDF:381.0/12

Right Out: 7.477 $\pm$ 0.524  $\chi^2$ /NDF: 689.3/17

Left In: 16.716 $\pm$ 0.385  $\chi^2$ /NDF:537.2/12

Left: 16.583 $\pm$ 0.272  $\chi^2$ /NDF: 918.4/25

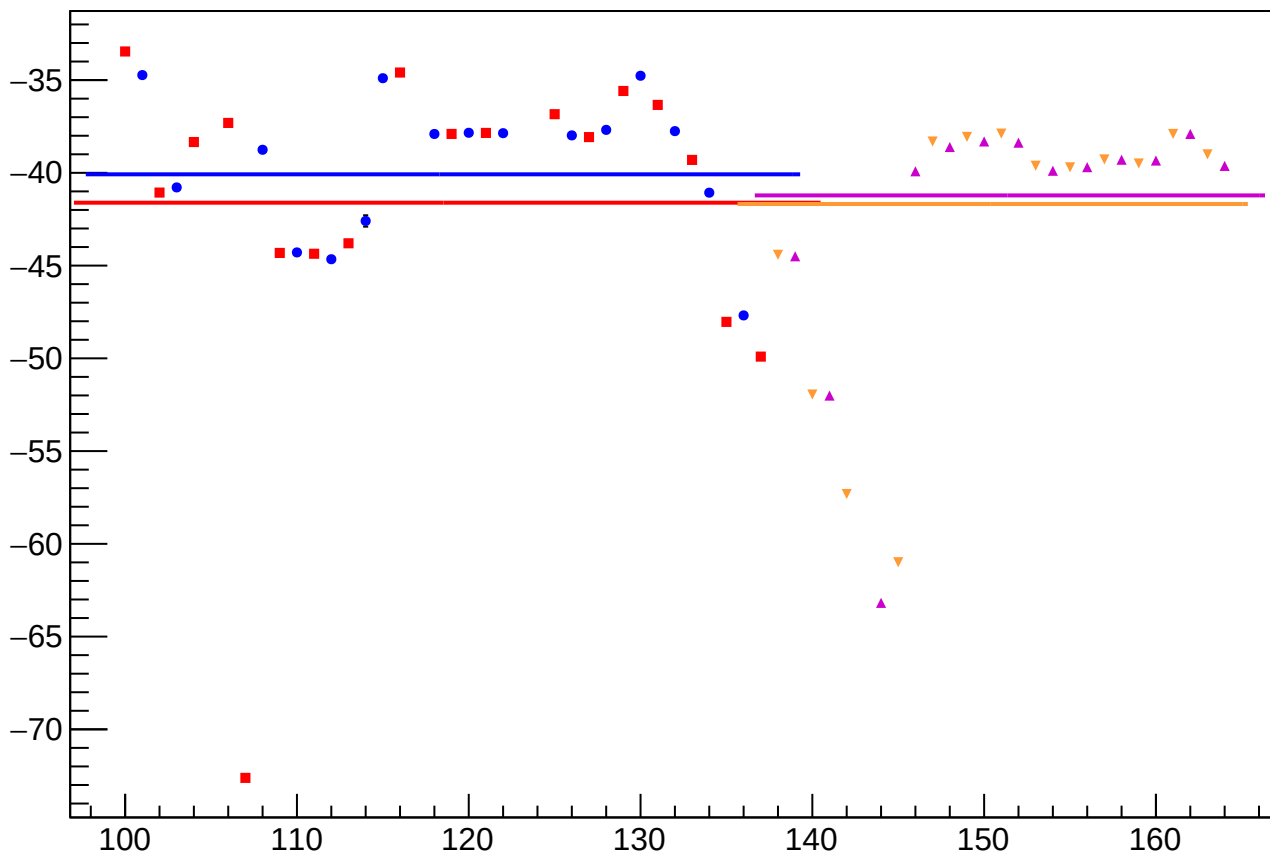
Right: 9.088 $\pm$ 0.359  $\chi^2$ /NDF: 1288.6/33

In: 14.359 $\pm$ 0.303  $\chi^2$ /NDF:1217.4/28

Out: 13.298 $\pm$ 0.311  $\chi^2$ /NDF:1260.5/30

All: 13.841 $\pm$ 0.217  $\chi^2$ /NDF: 2484.0/59

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:  $-41.680 \pm 0.019$   $\chi^2/\text{NDF}$ : 111423.9/12

Right Out:  $-41.609 \pm 0.029$   $\chi^2/\text{NDF}$ : 61784.6/17

Left In:  $-41.216 \pm 0.018$   $\chi^2/\text{NDF}$ : 92973.9/12

Left:  $-41.441 \pm 0.013$   $\chi^2/\text{NDF}$ : 204707.3/25

Right:  $-40.834 \pm 0.020$   $\chi^2/\text{NDF}$ : 88360.5/33

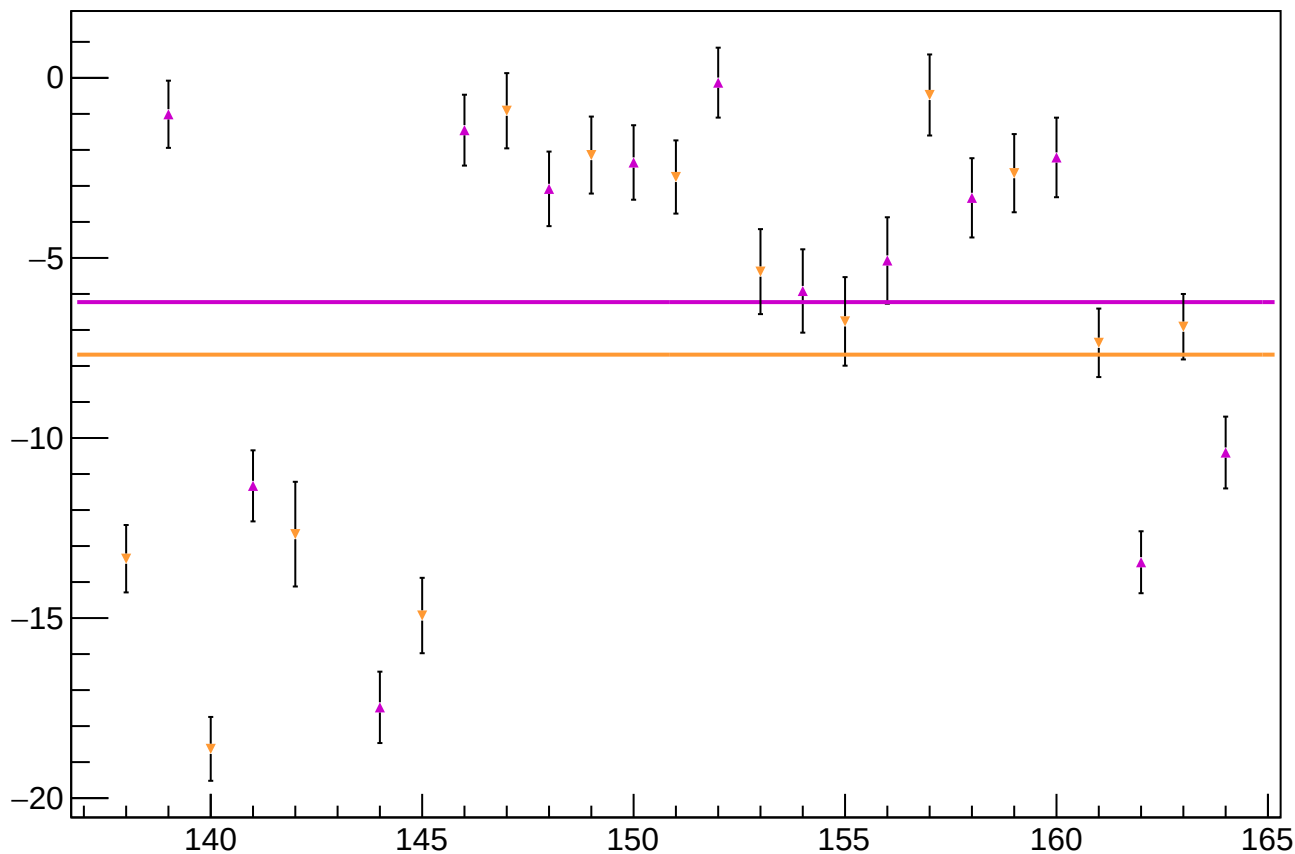
In:  $-40.878 \pm 0.015$   $\chi^2/\text{NDF}$ : 119238.7/28

Out:  $-41.659 \pm 0.016$   $\chi^2/\text{NDF}$ : 173212.8/30

All:  $-41.258 \pm 0.011$   $\chi^2/\text{NDF}$ : 293705.1/59



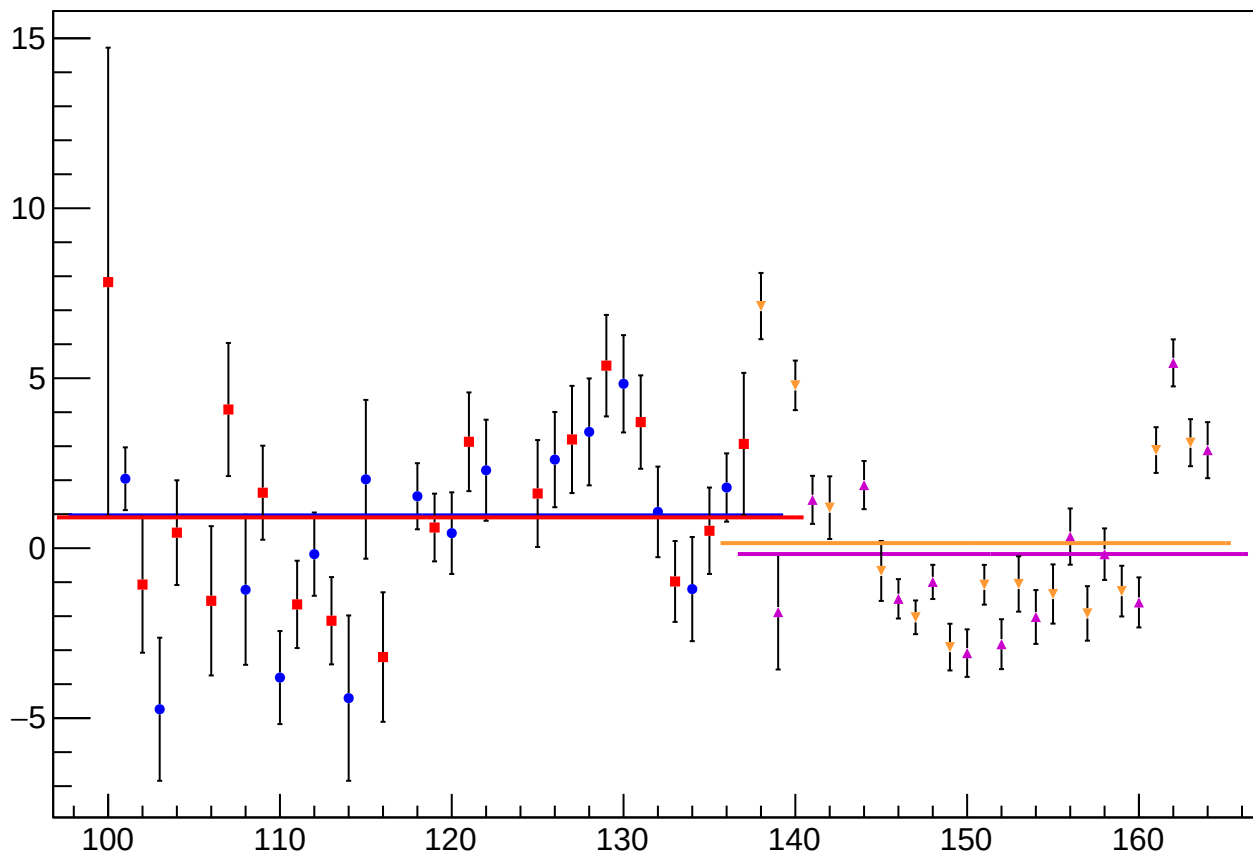
reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-7.685 \pm 0.290$   $\chi^2/\text{NDF}: 409.1/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-6.227 \pm 0.282$   $\chi^2/\text{NDF}: 382.3/12$

Left:  $-6.935 \pm 0.202$   $\chi^2/\text{NDF}: 804.4/25$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-6.227 \pm 0.282$   $\chi^2/\text{NDF}: 382.3/12$   
 Out:  $-7.685 \pm 0.290$   $\chi^2/\text{NDF}: 409.1/12$   
 All:  $-6.935 \pm 0.202$   $\chi^2/\text{NDF}: 804.4/25$

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:  $0.149 \pm 0.200$   $\chi^2/\text{NDF}: 187.7/12$

Right Out:  $0.906 \pm 0.354$   $\chi^2/\text{NDF}: 42.0/17$

Left In:  $-0.172 \pm 0.198$   $\chi^2/\text{NDF}: 142.0/12$

Left:  $-0.013 \pm 0.141$   $\chi^2/\text{NDF}: 331.0/25$

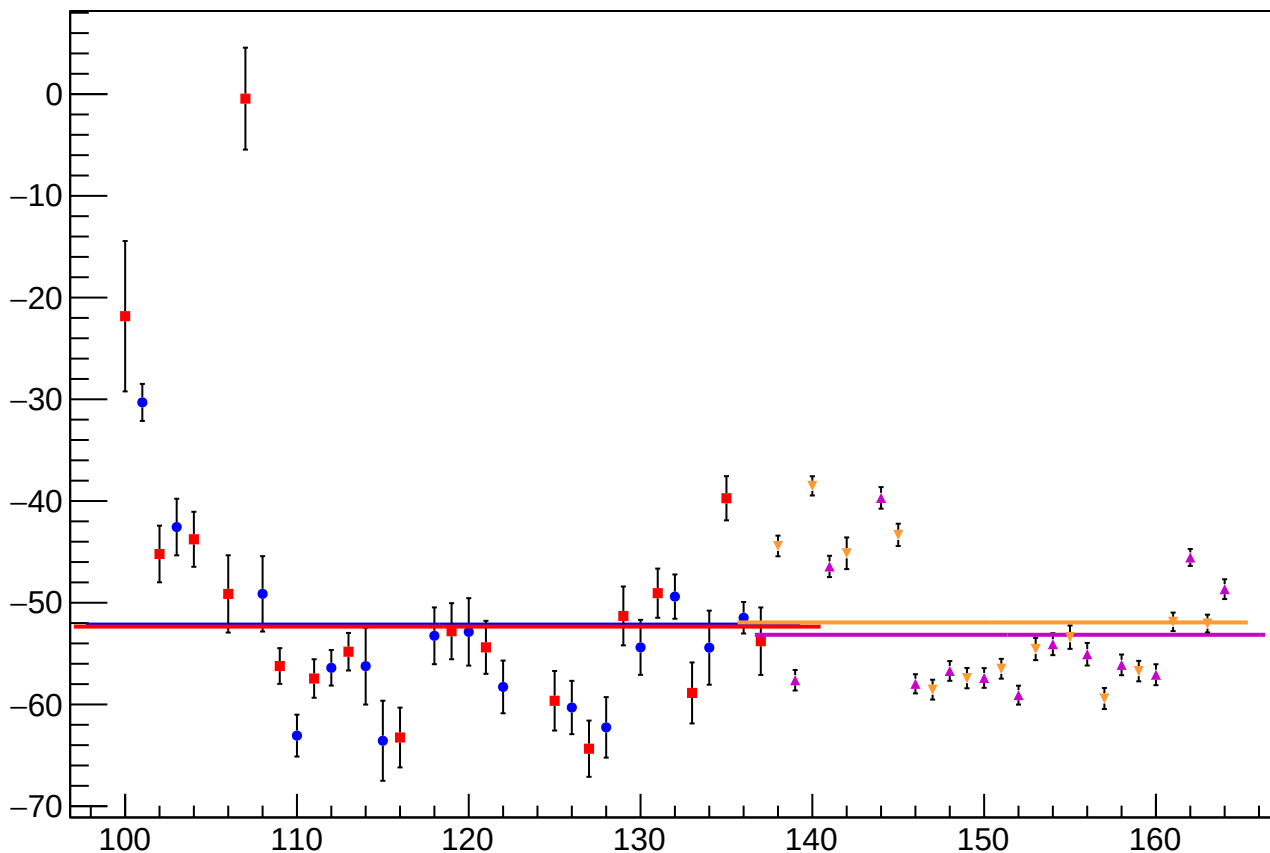
Right:  $0.937 \pm 0.244$   $\chi^2/\text{NDF}: 84.9/33$

In:  $0.119 \pm 0.171$   $\chi^2/\text{NDF}: 193.4/28$

Out:  $0.332 \pm 0.174$   $\chi^2/\text{NDF}: 233.1/30$

All:  $0.224 \pm 0.122$   $\chi^2/\text{NDF}: 427.2/59$

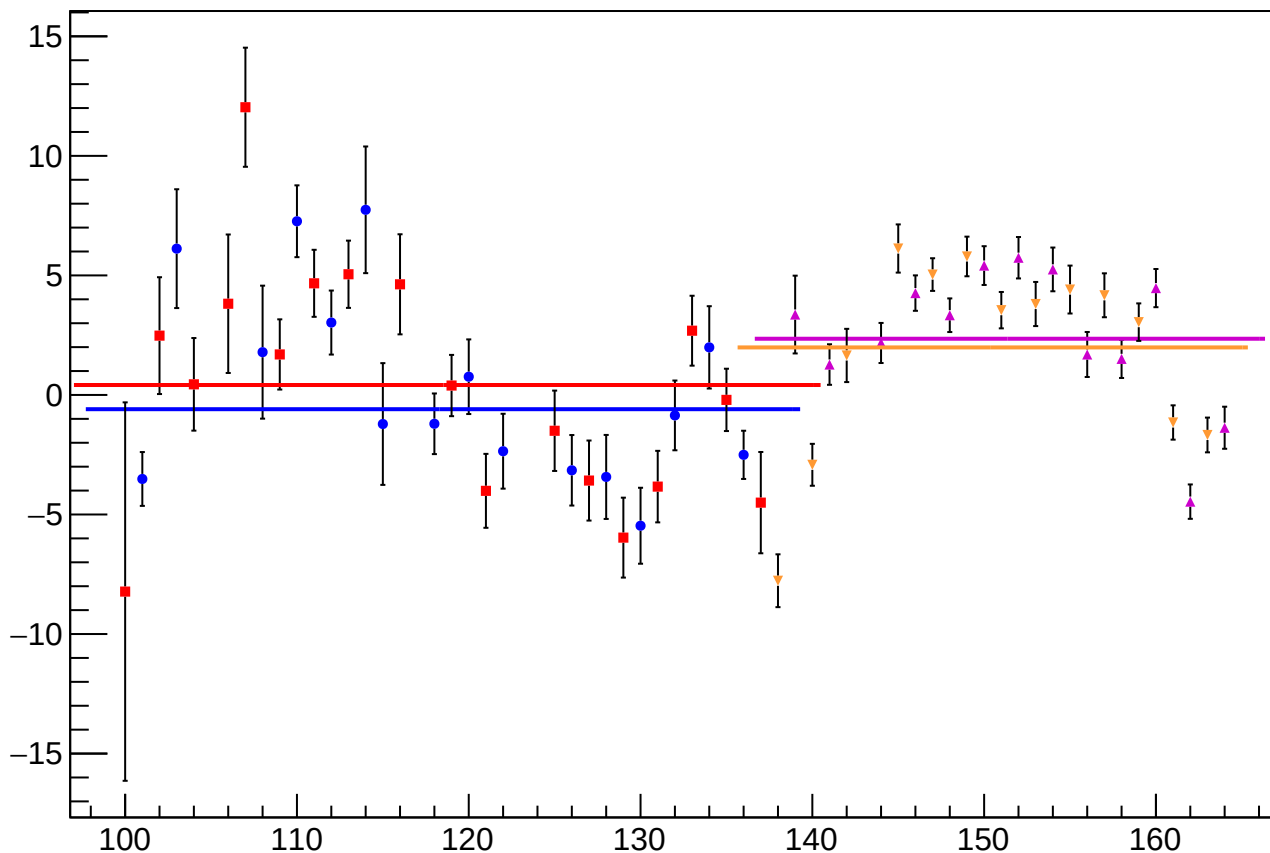
reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-52.148 \pm 0.612$   $\chi^2/\text{NDF}: 230.2/15$   
 Left Out:  $-51.935 \pm 0.283$   $\chi^2/\text{NDF}: 517.1/12$   
 Right Out:  $-52.346 \pm 0.616$   $\chi^2/\text{NDF}: 235.7/17$   
 Left In:  $-53.151 \pm 0.274$   $\chi^2/\text{NDF}: 453.5/12$

Left:  $-52.562 \pm 0.197$   $\chi^2/\text{NDF}: 980.2/25$   
 Right:  $-52.246 \pm 0.434$   $\chi^2/\text{NDF}: 466.0/33$   
 In:  $-52.983 \pm 0.250$   $\chi^2/\text{NDF}: 686.0/28$   
 Out:  $-52.006 \pm 0.257$   $\chi^2/\text{NDF}: 753.2/30$   
 All:  $-52.508 \pm 0.179$   $\chi^2/\text{NDF}: 1446.6/59$

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:  $1.988 \pm 0.235$   $\chi^2/\text{NDF}$ : 233.2/12

Right Out:  $0.416 \pm 0.400$   $\chi^2/\text{NDF}$ : 95.8/17

Left In:  $2.351 \pm 0.232$   $\chi^2/\text{NDF}$ : 166.6/12

Left:  $2.172 \pm 0.165$   $\chi^2/\text{NDF}$ : 401.0/25

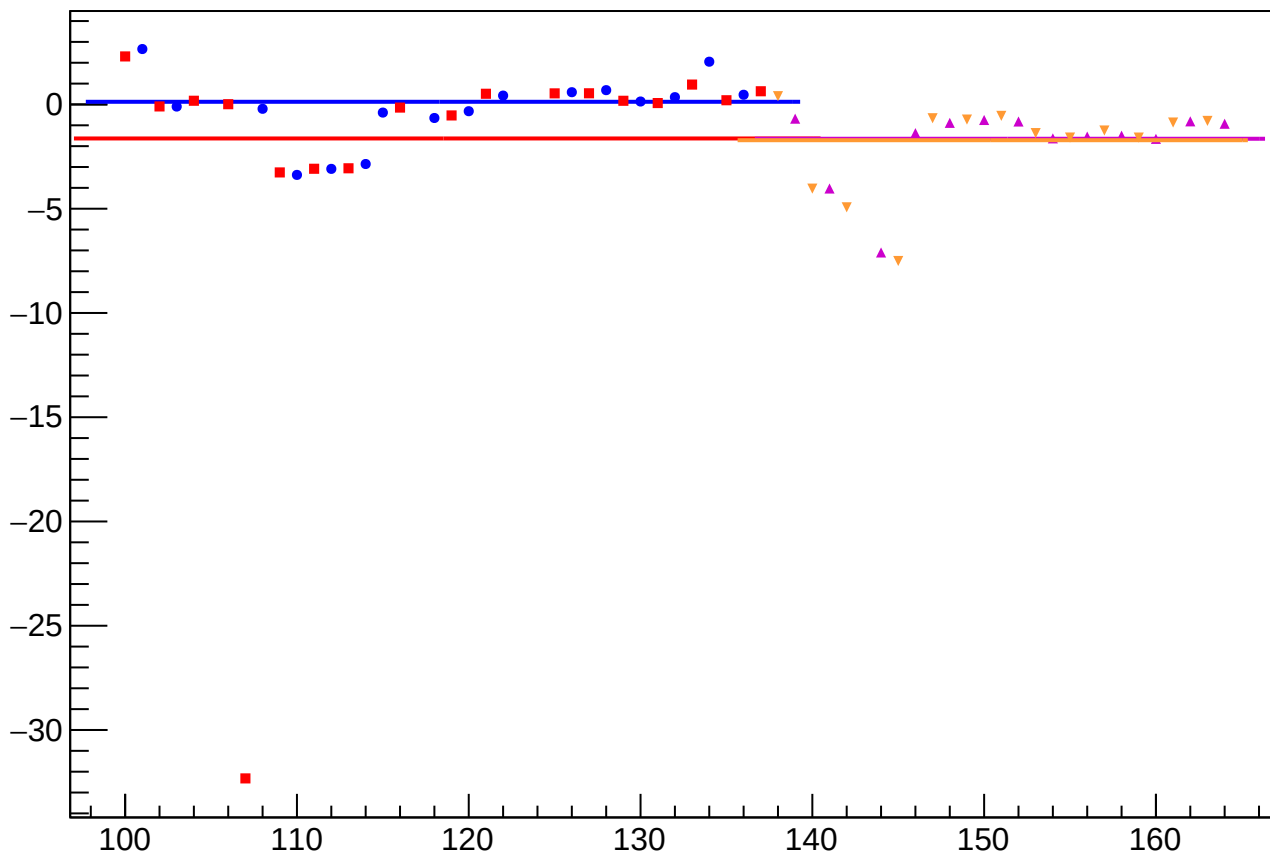
Right:  $-0.111 \pm 0.277$   $\chi^2/\text{NDF}$ : 181.7/33

In:  $1.562 \pm 0.199$   $\chi^2/\text{NDF}$ : 292.3/28

Out:  $1.583 \pm 0.203$   $\chi^2/\text{NDF}$ : 340.5/30

All:  $1.572 \pm 0.142$   $\chi^2/\text{NDF}$ : 632.8/59

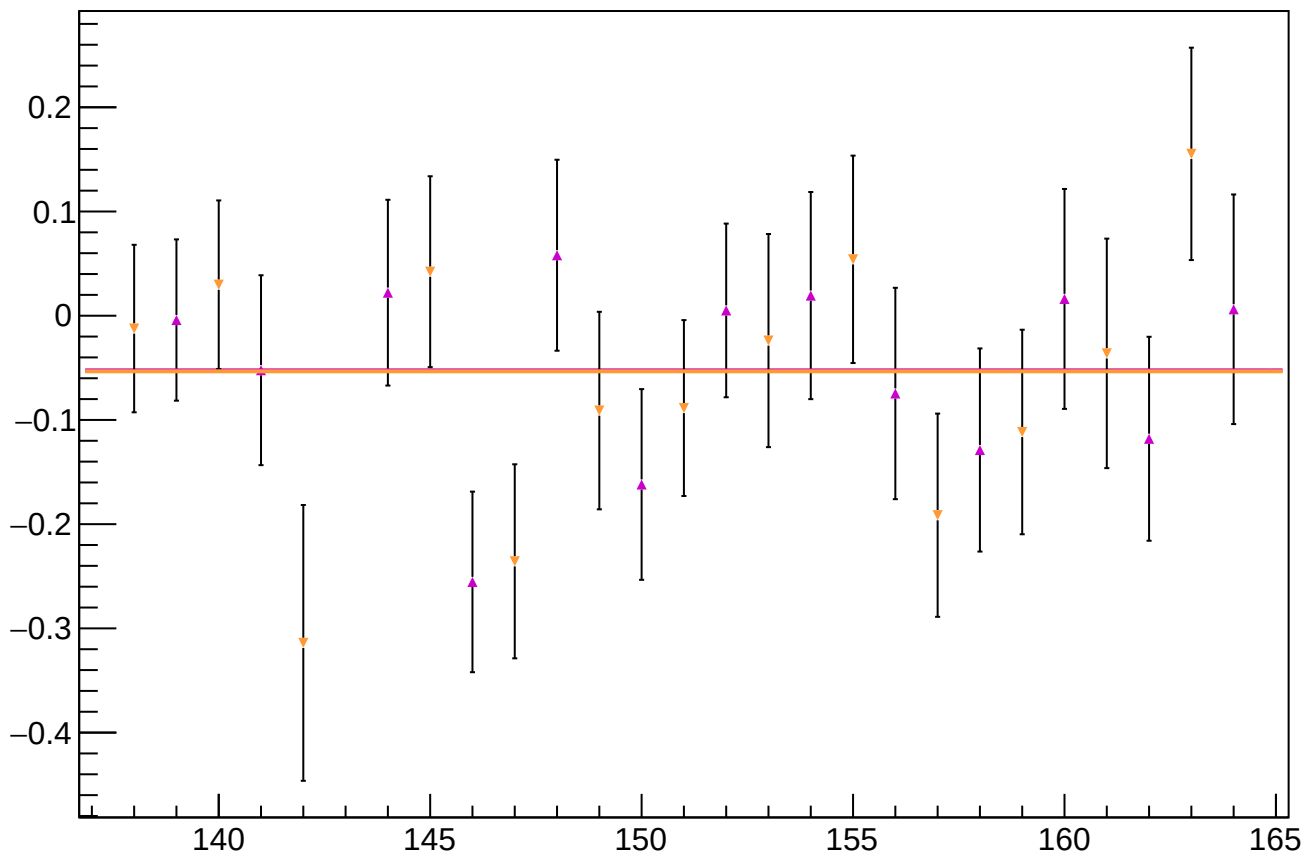
reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.128 \pm 0.021$   $\chi^2/\text{NDF}: 5252.9/15$   
 Left Out:  $-1.715 \pm 0.011$   $\chi^2/\text{NDF}: 30098.3/12$   
 Right Out:  $-1.631 \pm 0.022$   $\chi^2/\text{NDF}: 77878.6/17$   
 Left In:  $-1.645 \pm 0.011$   $\chi^2/\text{NDF}: 20107.9/12$

Left:  $-1.679 \pm 0.008$   $\chi^2/\text{NDF}: 50226.8/25$   
 Right:  $-0.739 \pm 0.015$   $\chi^2/\text{NDF}: 86433.1/33$   
 In:  $-1.291 \pm 0.010$   $\chi^2/\text{NDF}: 30805.0/28$   
 Out:  $-1.698 \pm 0.010$   $\chi^2/\text{NDF}: 107988.6/30$   
 All:  $-1.489 \pm 0.007$   $\chi^2/\text{NDF}: 139667.0/59$

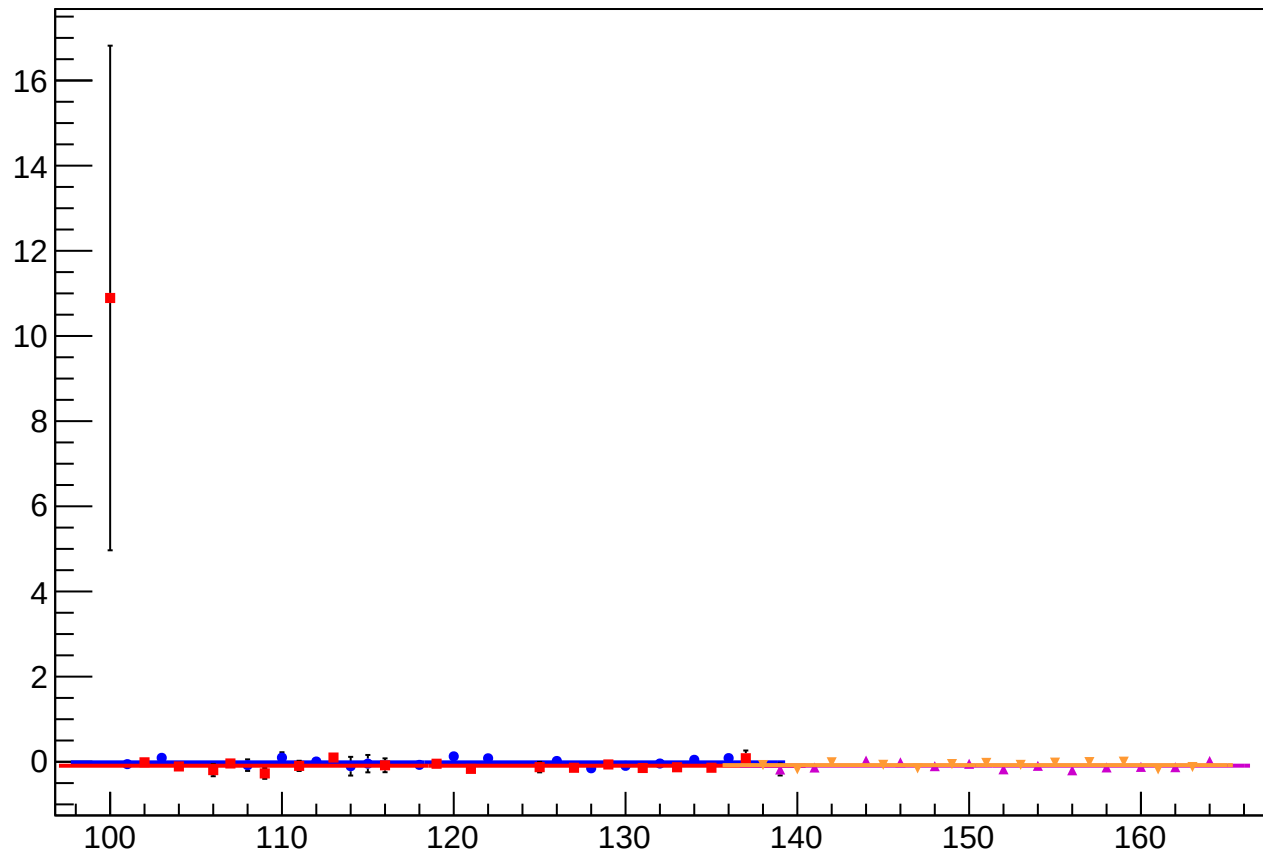
reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.053 $\pm$ 0.026  $\chi^2$ /NDF:18.3/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.052 $\pm$ 0.026  $\chi^2$ /NDF:12.3/12

Left: -0.053 $\pm$ 0.018  $\chi^2$ /NDF: 30.6/25  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.052 $\pm$ 0.026  $\chi^2$ /NDF:12.3/12  
 Out: -0.053 $\pm$ 0.026  $\chi^2$ /NDF:18.3/12  
 All: -0.053 $\pm$ 0.018  $\chi^2$ /NDF: 30.6/25

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.023  $\chi^2$ /NDF: 12.2/15

Left Out: -0.078 $\pm$ 0.018  $\chi^2$ /NDF:12.4/12

Right Out: -0.092 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/17

Left In: -0.091 $\pm$ 0.018  $\chi^2$ /NDF:13.8/12

Left: -0.085 $\pm$ 0.013  $\chi^2$ /NDF: 26.4/25

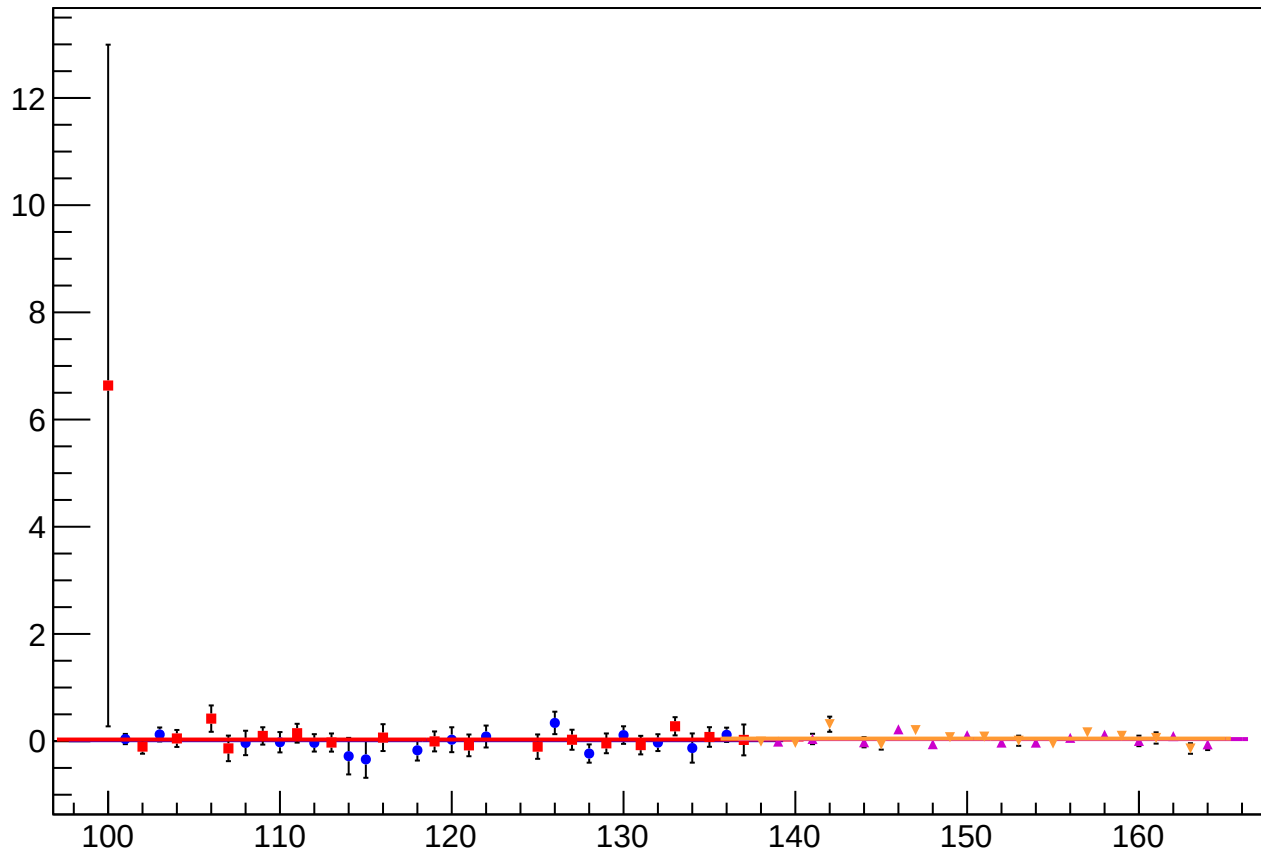
Right: -0.050 $\pm$ 0.017  $\chi^2$ /NDF: 30.3/33

In: -0.062 $\pm$ 0.014  $\chi^2$ /NDF:33.0/28

Out: -0.083 $\pm$ 0.015  $\chi^2$ /NDF:25.3/30

All: -0.072 $\pm$ 0.010  $\chi^2$ /NDF: 59.4/59

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.043  $\chi^2$ /NDF: 9.6/15

Left Out: 0.047 $\pm$ 0.026  $\chi^2$ /NDF:16.5/12

Right Out: 0.030 $\pm$ 0.045  $\chi^2$ /NDF: 9.2/17

Left In: 0.038 $\pm$ 0.025  $\chi^2$ /NDF:10.8/12

Left: 0.043 $\pm$ 0.018  $\chi^2$ /NDF: 27.4/25

Right: 0.023 $\pm$ 0.031  $\chi^2$ /NDF: 18.9/33

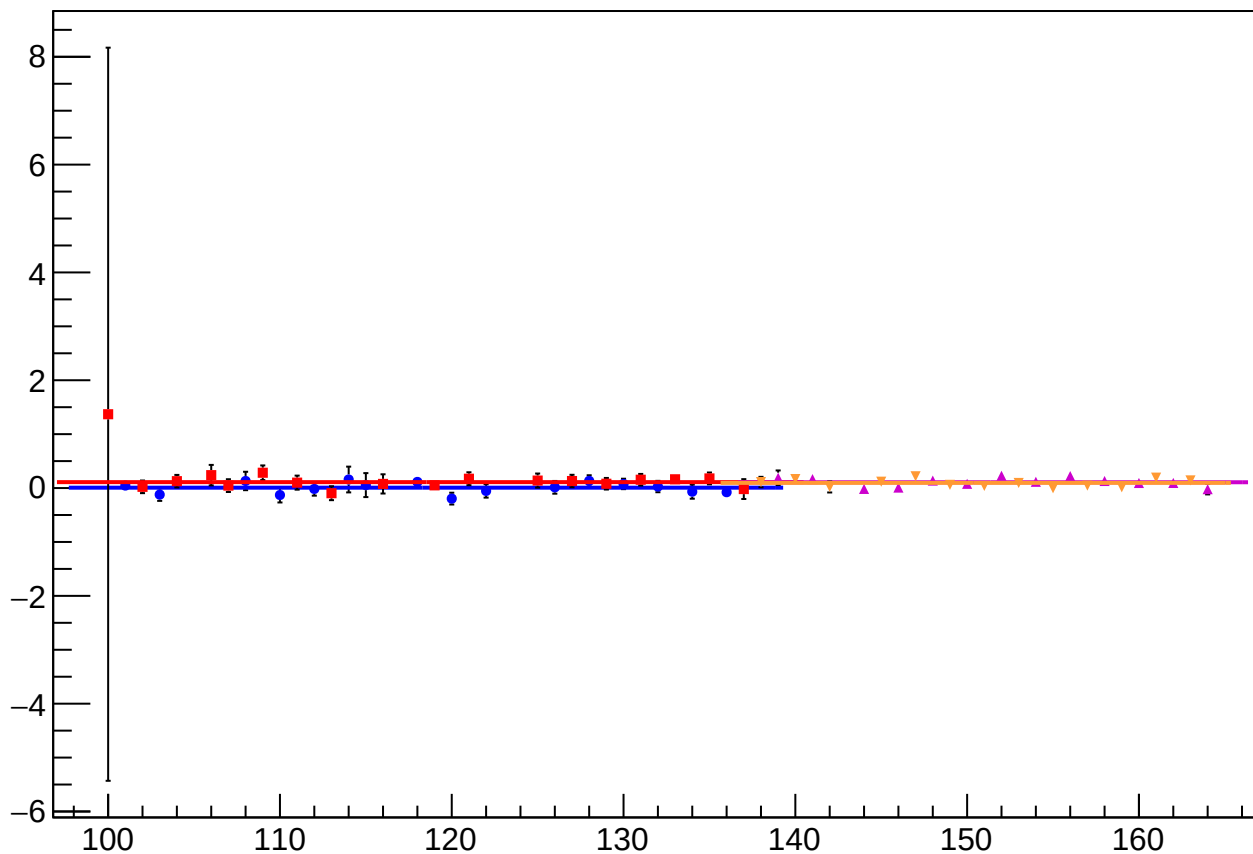
In: 0.033 $\pm$ 0.022  $\chi^2$ /NDF:20.6/28

Out: 0.043 $\pm$ 0.022  $\chi^2$ /NDF:25.8/30

All: 0.038 $\pm$ 0.016  $\chi^2$ /NDF: 46.5/59



reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.007+/-0.027     $\chi^2/\text{NDF}$ : 12.1/15

Left Out: 0.096+/-0.022     $\chi^2/\text{NDF}$ : 11.5/12

Right Out: 0.110+/-0.029     $\chi^2/\text{NDF}$ : 8.0/17

Left In: 0.108+/-0.021     $\chi^2/\text{NDF}$ : 12.9/12

Left: 0.102+/-0.015     $\chi^2/\text{NDF}$ : 24.5/25

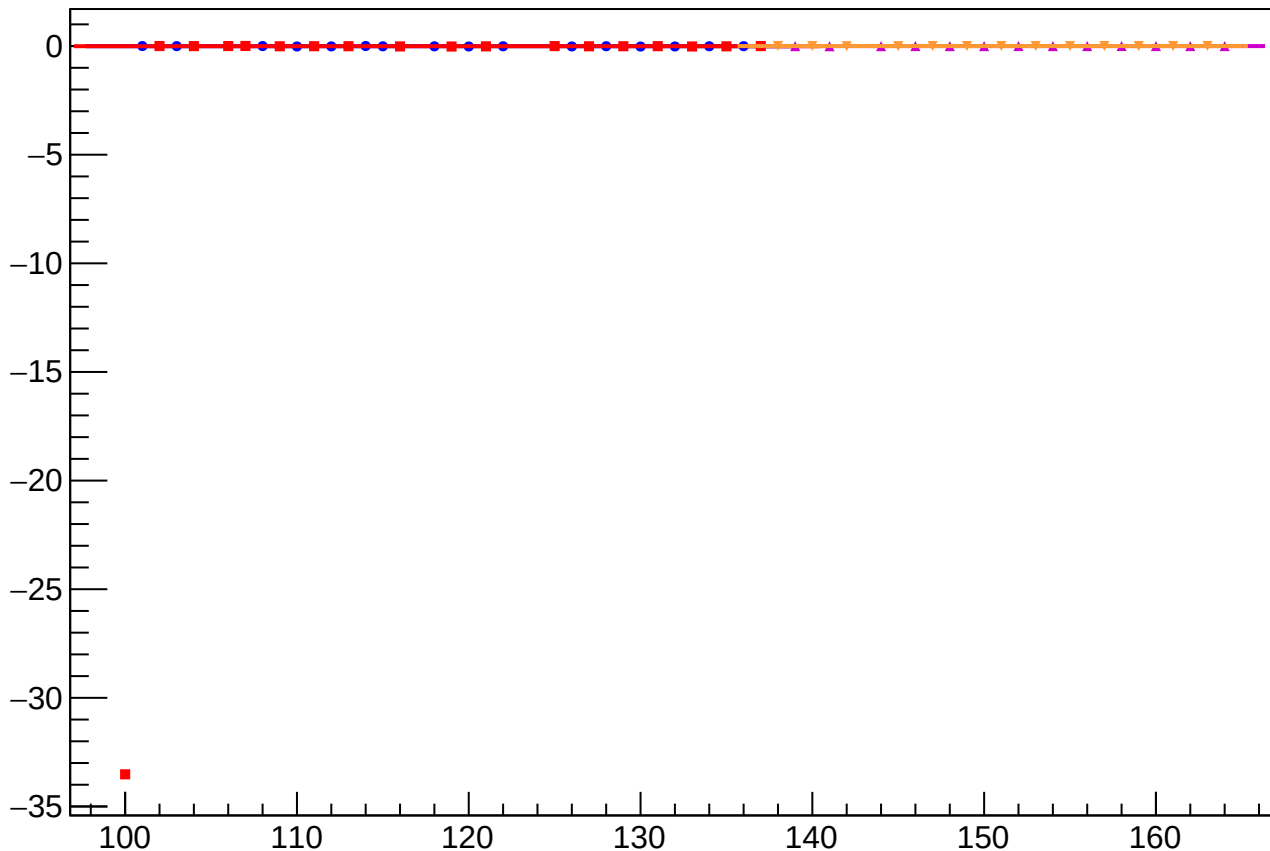
Right: 0.055+/-0.020     $\chi^2/\text{NDF}$ : 27.0/33

In: 0.069+/-0.017     $\chi^2/\text{NDF}$ : 33.6/28

Out: 0.101+/-0.017     $\chi^2/\text{NDF}$ : 19.6/30

All: 0.085+/-0.012     $\chi^2/\text{NDF}$ : 55.0/59

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001  $\chi^2$ /NDF: 22.6/15

Left Out: 0.001 $\pm$ 0.001  $\chi^2$ /NDF:8.4/12

Right Out: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 26508.9/17

Left In: 0.000 $\pm$ 0.001  $\chi^2$ /NDF:7.4/12

Left: 0.001 $\pm$ 0.001  $\chi^2$ /NDF: 16.7/25

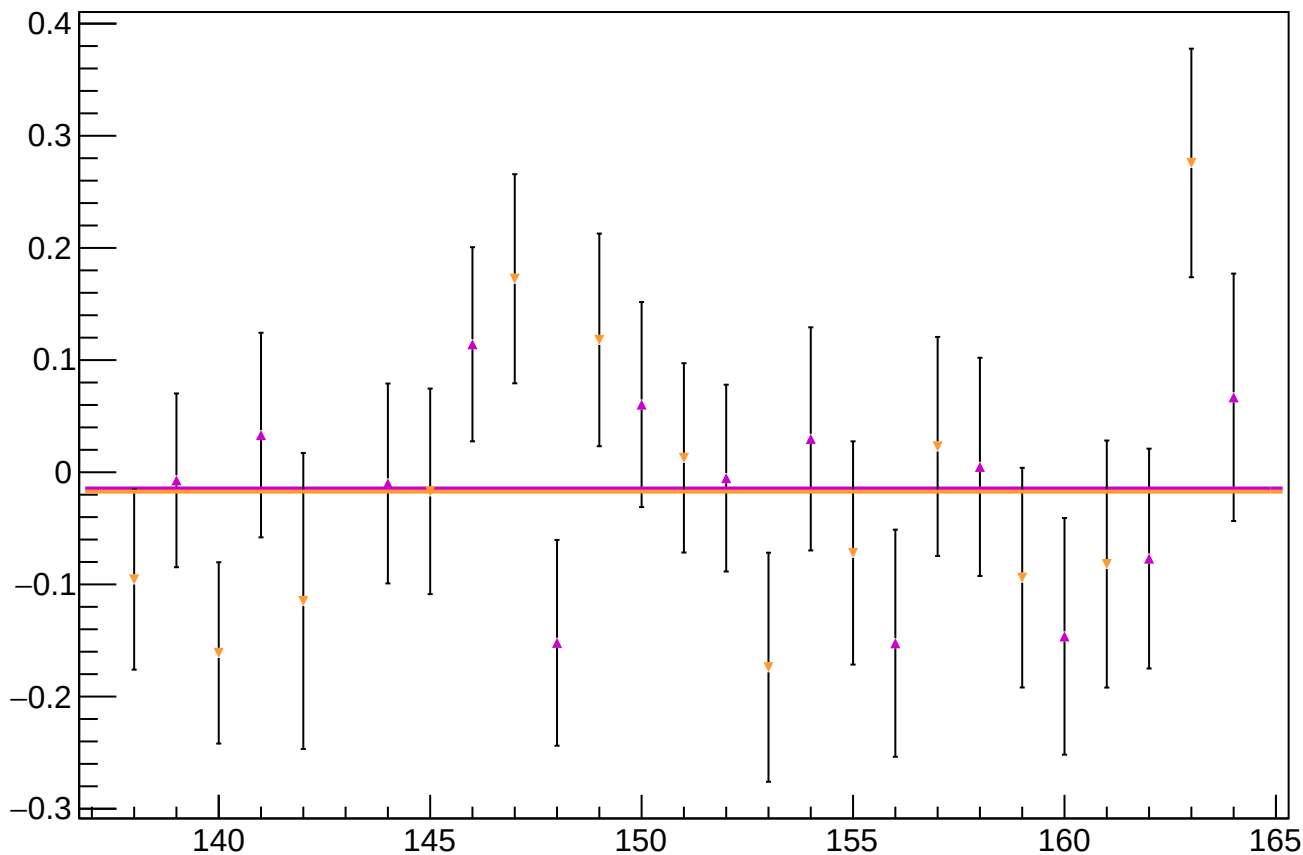
Right: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 26531.6/33

In: -0.002 $\pm$ 0.001  $\chi^2$ /NDF:40.3/28

Out: -0.001 $\pm$ 0.001  $\chi^2$ /NDF:26534.6/30

All: -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 26575.3/59

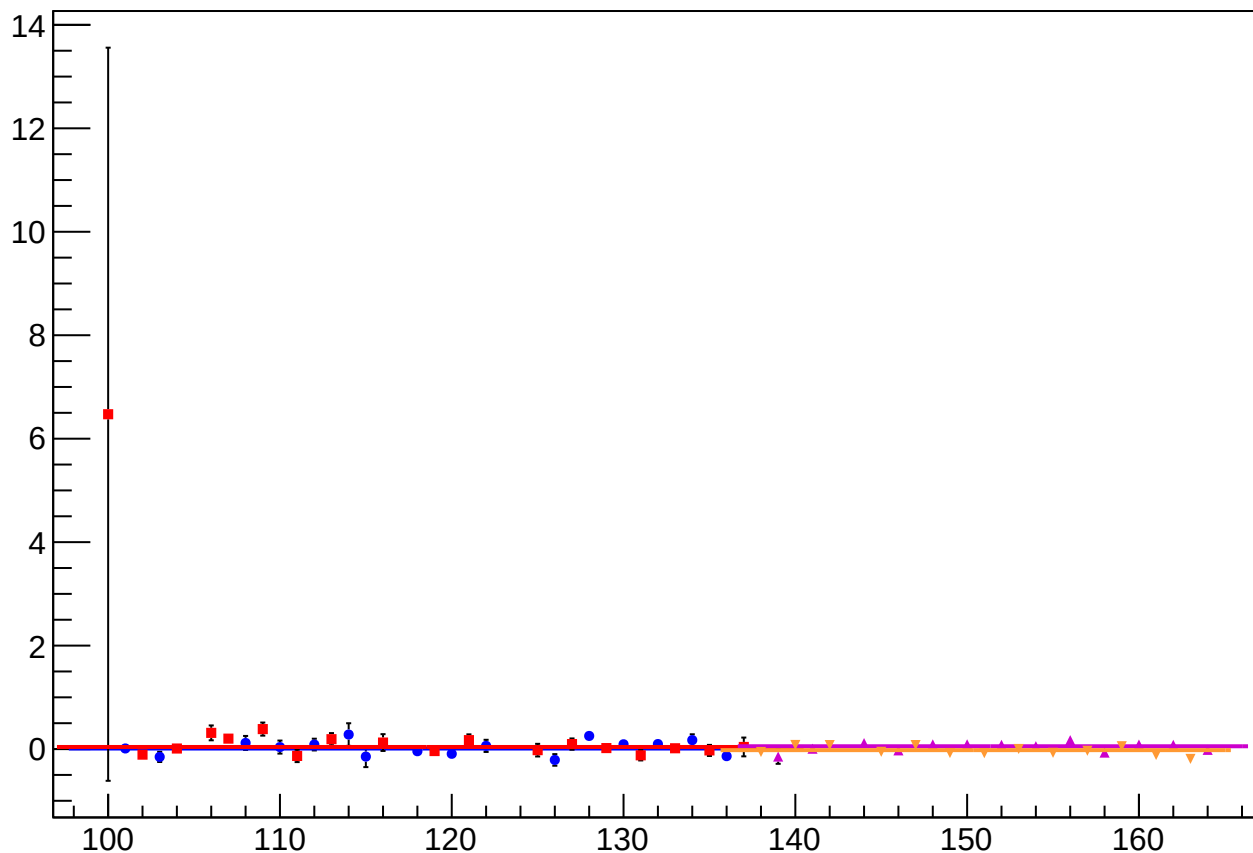
reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.017 $\pm$ 0.026  $\chi^2$ /NDF:23.0/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.014 $\pm$ 0.026  $\chi^2$ /NDF:10.0/12

Left: -0.016 $\pm$ 0.018  $\chi^2$ /NDF: 33.1/25  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.014 $\pm$ 0.026  $\chi^2$ /NDF:10.0/12  
 Out: -0.017 $\pm$ 0.026  $\chi^2$ /NDF:23.0/12  
 All: -0.016 $\pm$ 0.018  $\chi^2$ /NDF: 33.1/25

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: -0.021 $\pm$ 0.018  $\chi^2$ /NDF:19.4/12

Right Out: 0.040 $\pm$ 0.025  $\chi^2$ /NDF: 27.9/17

Left In: 0.054 $\pm$ 0.018  $\chi^2$ /NDF:14.2/12

Left: 0.017 $\pm$ 0.013  $\chi^2$ /NDF: 42.1/25

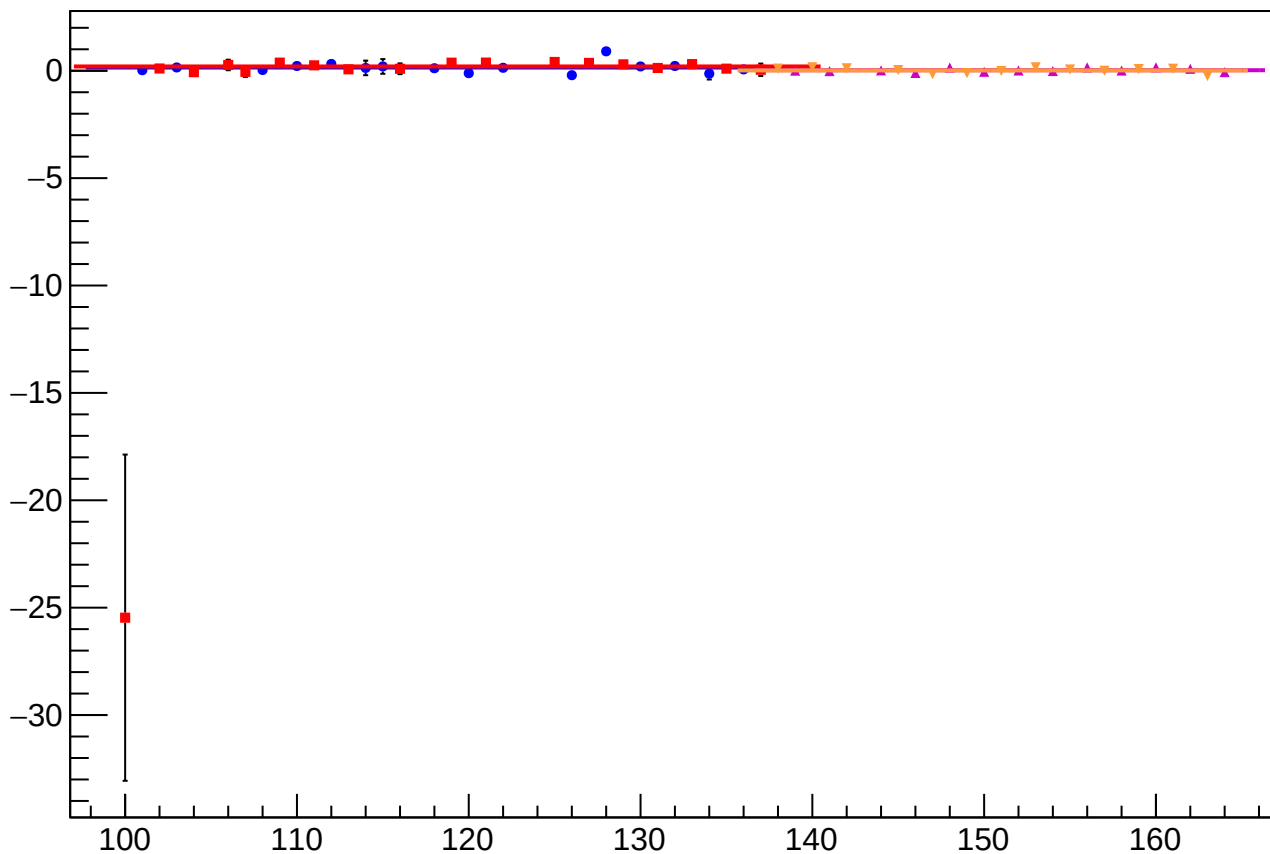
Right: 0.024 $\pm$ 0.017  $\chi^2$ /NDF: 54.1/33

In: 0.038 $\pm$ 0.014  $\chi^2$ /NDF:41.8/28

Out: 0.001 $\pm$ 0.015  $\chi^2$ /NDF:51.2/30

All: 0.020 $\pm$ 0.010  $\chi^2$ /NDF: 96.4/59

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: 0.016 $\pm$ 0.026  $\chi^2$ /NDF:21.6/12

Right Out: 0.200 $\pm$ 0.045  $\chi^2$ /NDF: 22.9/17

Left In: 0.026 $\pm$ 0.025  $\chi^2$ /NDF:10.6/12

Left: 0.021 $\pm$ 0.018  $\chi^2$ /NDF: 32.3/25

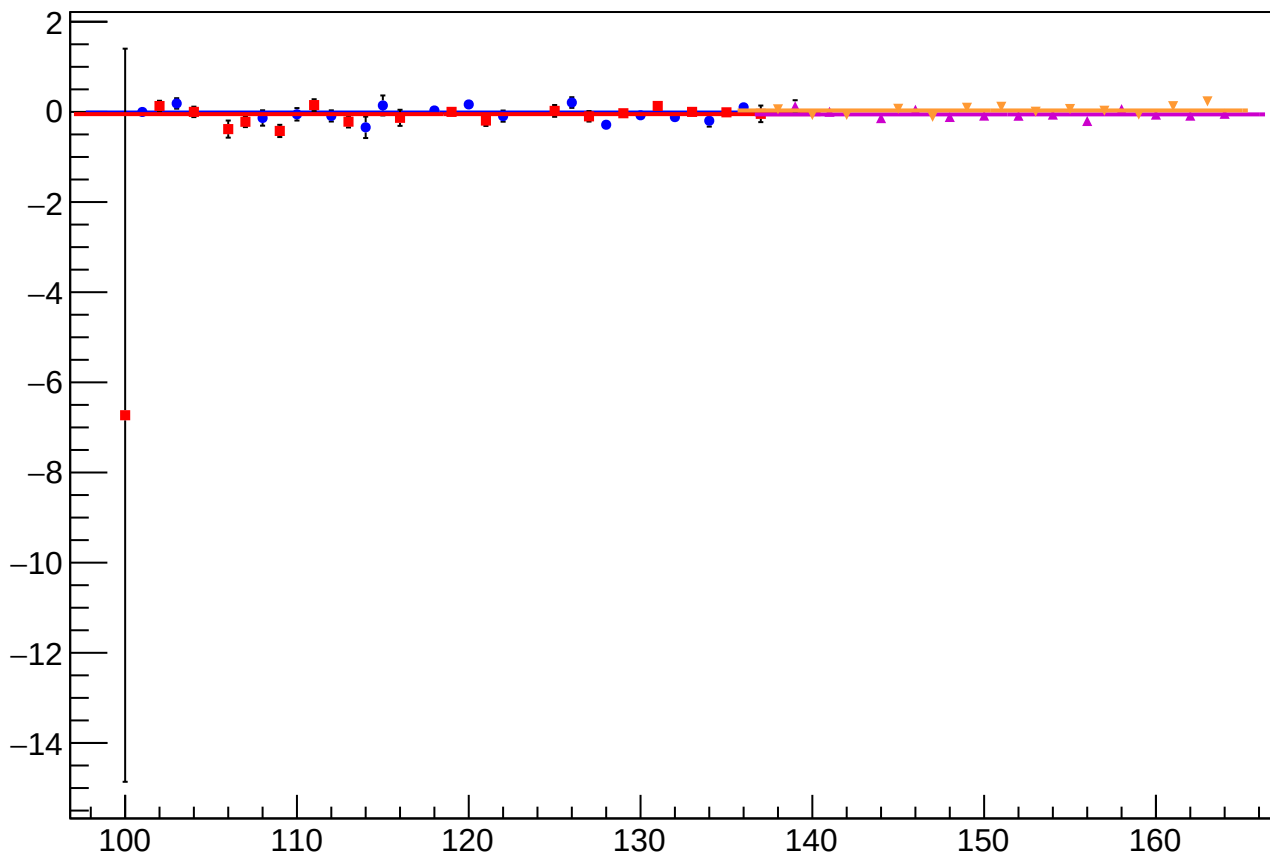
Right: 0.175 $\pm$ 0.031  $\chi^2$ /NDF: 52.2/33

In: 0.058 $\pm$ 0.022  $\chi^2$ /NDF:45.8/28

Out: 0.062 $\pm$ 0.022  $\chi^2$ /NDF:57.1/30

All: 0.060 $\pm$ 0.016  $\chi^2$ /NDF: 102.9/59

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:  $0.032 \pm 0.022$   $\chi^2/\text{NDF}: 20.0/12$

Right Out:  $-0.050 \pm 0.029$   $\chi^2/\text{NDF}: 25.7/17$

Left In:  $-0.055 \pm 0.021$   $\chi^2/\text{NDF}: 13.4/12$

Left:  $-0.012 \pm 0.015$   $\chi^2/\text{NDF}: 41.7/25$

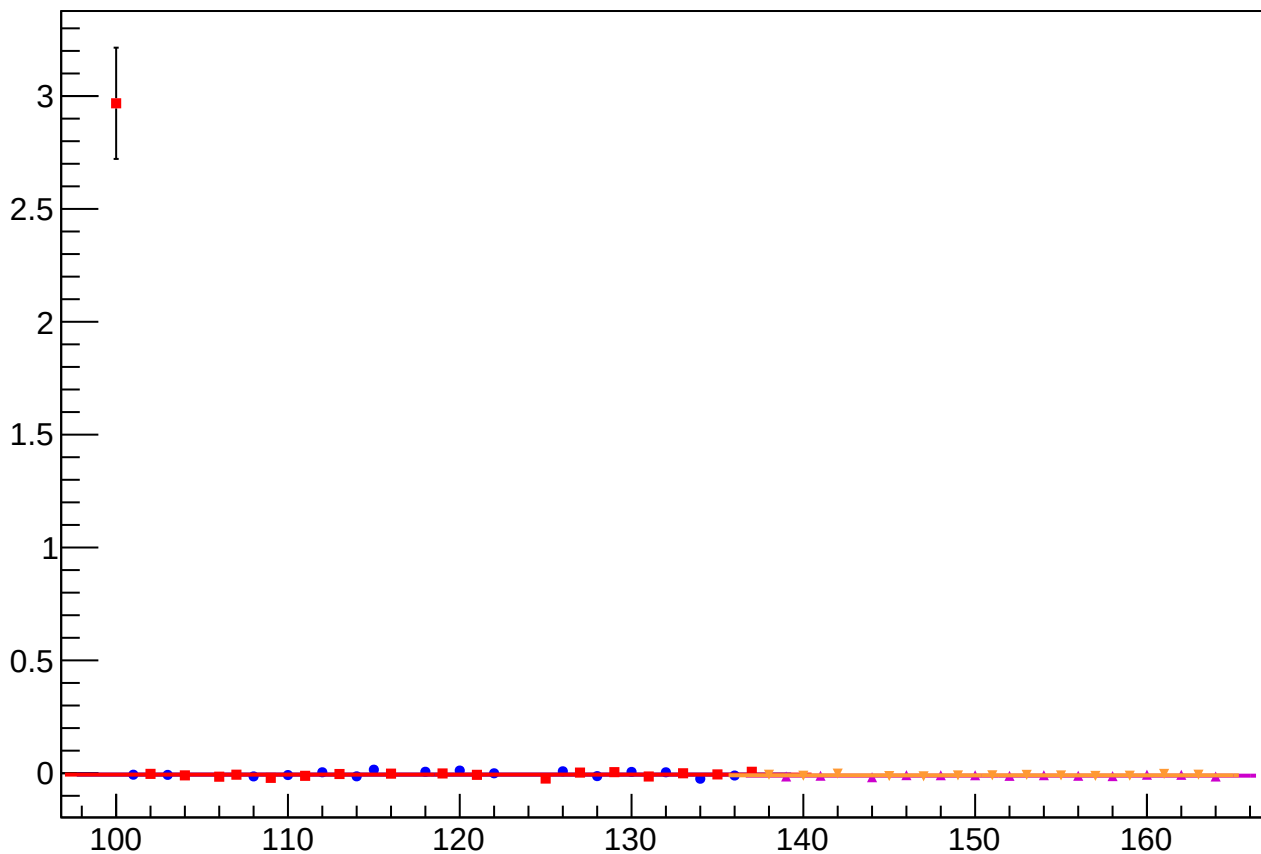
Right:  $-0.031 \pm 0.020$   $\chi^2/\text{NDF}: 51.8/33$

In:  $-0.039 \pm 0.017$   $\chi^2/\text{NDF}: 40.1/28$

Out:  $0.003 \pm 0.017$   $\chi^2/\text{NDF}: 51.0/30$

All:  $-0.019 \pm 0.012$   $\chi^2/\text{NDF}: 94.1/59$

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 29.0/15

Left Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 9.1/12

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 165.9/17

Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 9.1/12

Left:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 19.4/25

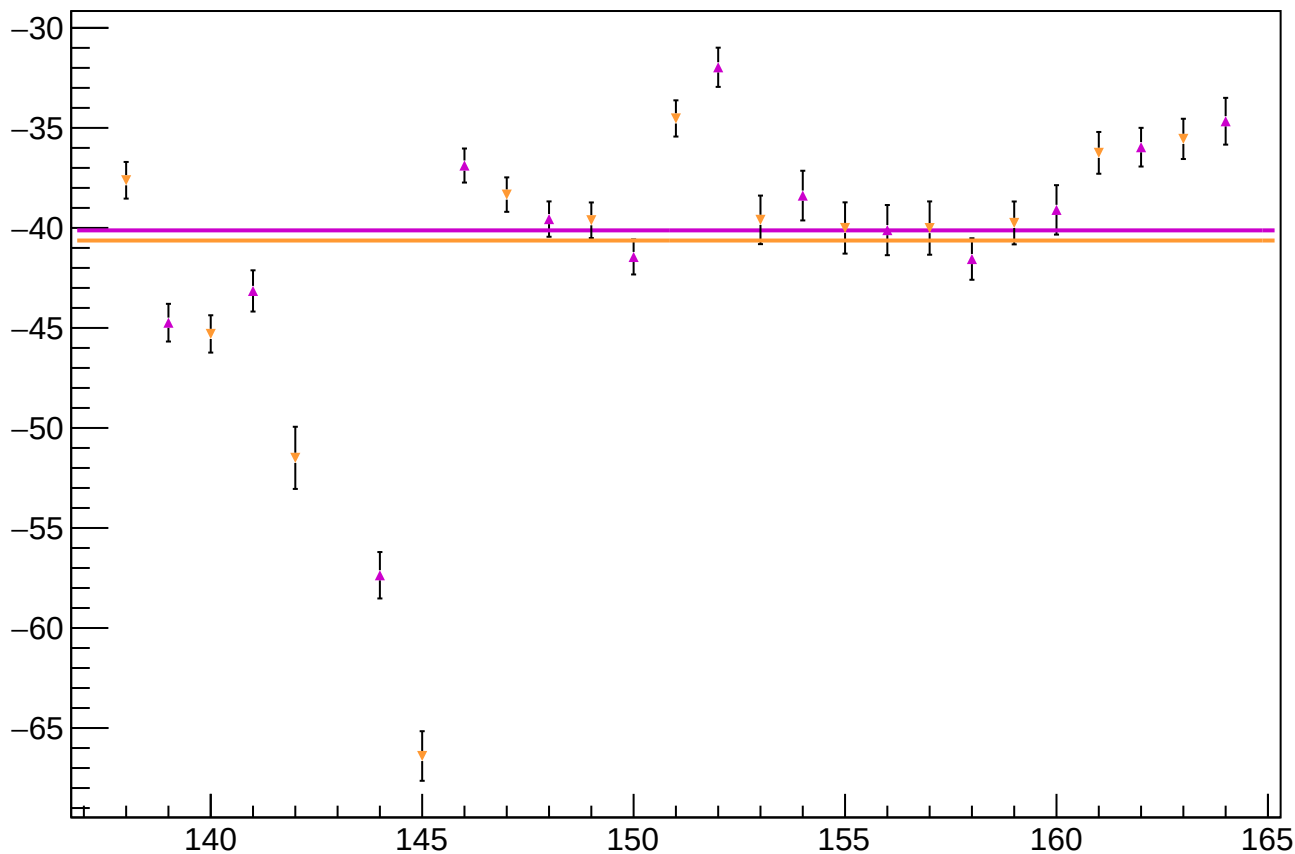
Right:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 194.8/33

In:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 45.5/28

Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 178.2/30

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 224.6/59

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: -40.630+/-0.290  $\chi^2/\text{NDF}$ : 615.7/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.123+/-0.283  $\chi^2/\text{NDF}$ : 384.6/12

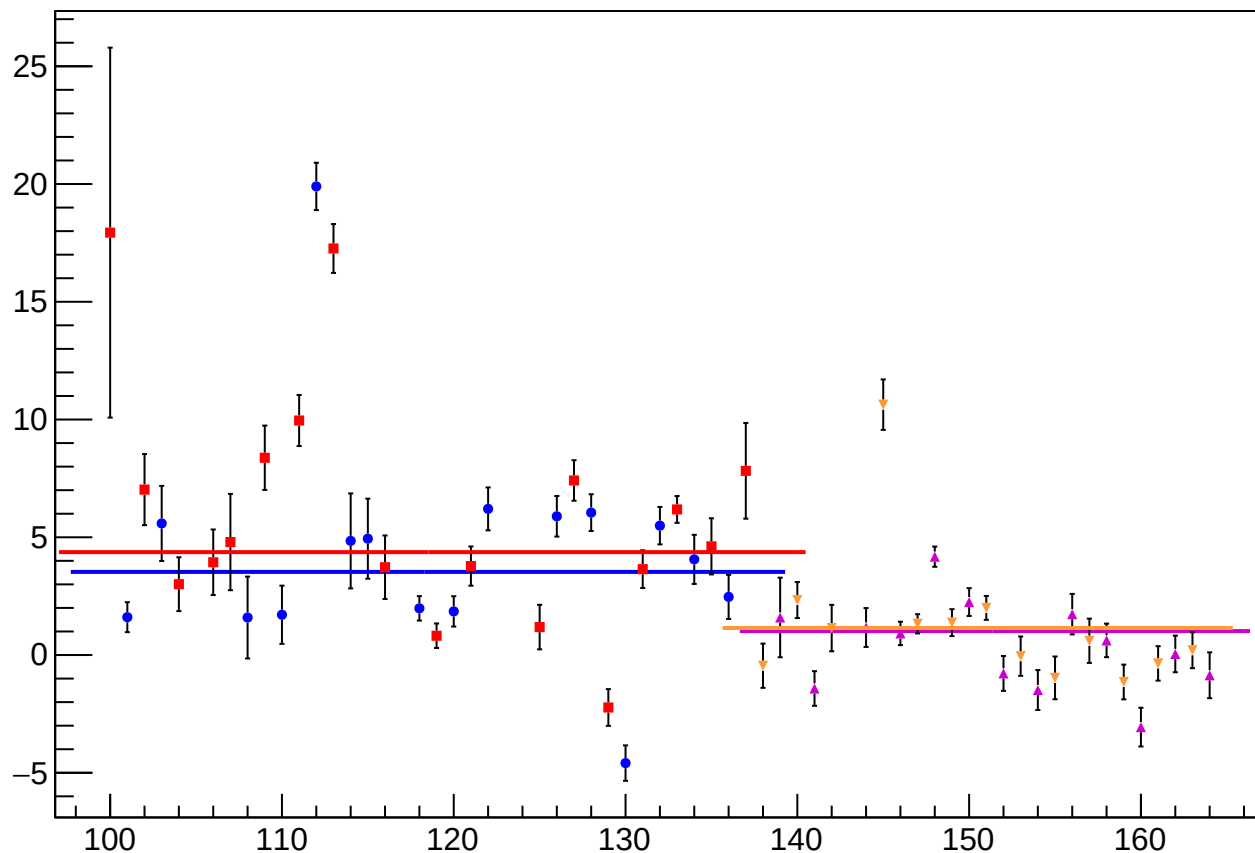
Left: -40.370+/-0.203  $\chi^2/\text{NDF}$ : 1001.8/25  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.123+/-0.283  $\chi^2/\text{NDF}$ : 384.6/12  
 Out: -40.630+/-0.290  $\chi^2/\text{NDF}$ : 615.7/12

All: -40.370+/-0.203  $\chi^2/\text{NDF}$ : 1001.8/25



reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.530 $\pm$ 0.217  $\chi^2$ /NDF: 446.6/15

Left Out: 1.148 $\pm$ 0.193  $\chi^2$ /NDF:110.1/12

Right Out: 4.370 $\pm$ 0.225  $\chi^2$ /NDF: 353.8/17

Left In: 1.018 $\pm$ 0.193  $\chi^2$ /NDF:115.3/12

Left: 1.083 $\pm$ 0.137  $\chi^2$ /NDF: 225.6/25

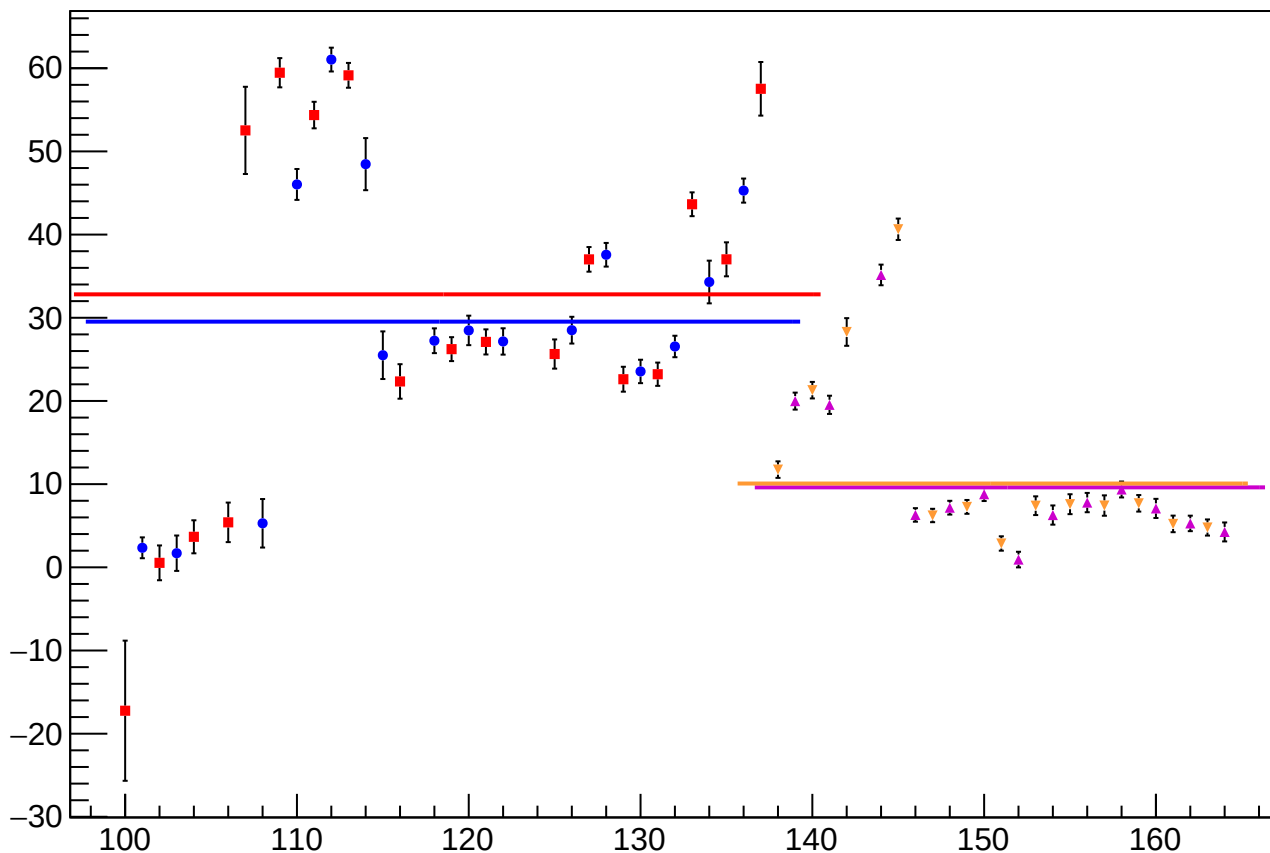
Right: 3.934 $\pm$ 0.156  $\chi^2$ /NDF: 807.6/33

In: 2.128 $\pm$ 0.144  $\chi^2$ /NDF:636.4/28

Out: 2.509 $\pm$ 0.147  $\chi^2$ /NDF:581.9/30

All: 2.316 $\pm$ 0.103  $\chi^2$ /NDF: 1221.8/59

reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.535 +/- 0.417  $\chi^2/\text{NDF}$ : 1494.9/15

Left Out: 10.074 +/- 0.282  $\chi^2/\text{NDF}$ : 992.4/12

Right Out: 32.816 +/- 0.423  $\chi^2/\text{NDF}$ : 1659.3/17

Left In: 9.612 +/- 0.274  $\chi^2/\text{NDF}$ : 780.0/12

Left: 9.836 +/- 0.197  $\chi^2/\text{NDF}$ : 1773.7/25

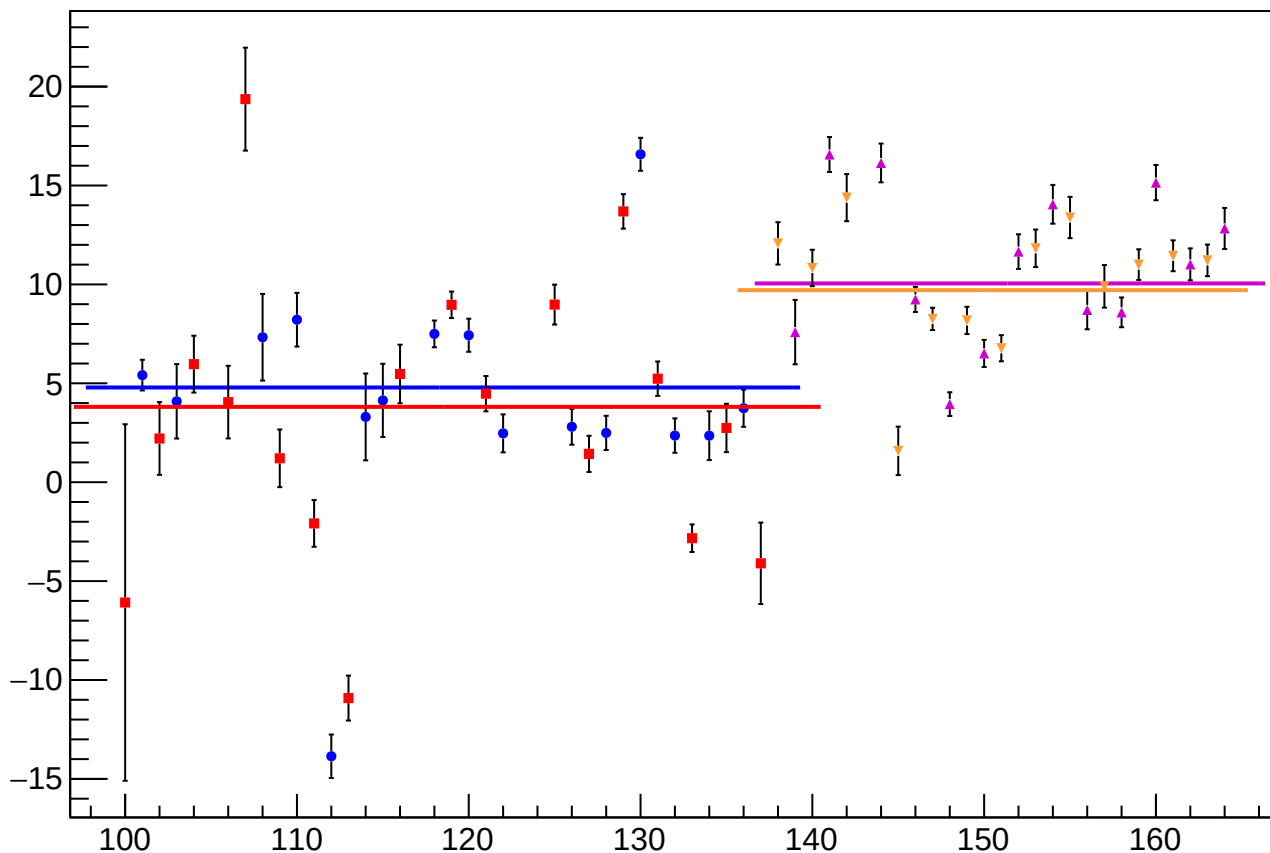
Right: 31.152 +/- 0.297  $\chi^2/\text{NDF}$ : 3184.7/33

In: 15.631 +/- 0.229  $\chi^2/\text{NDF}$ : 3869.8/28

Out: 17.085 +/- 0.235  $\chi^2/\text{NDF}$ : 4652.6/30

All: 16.340 +/- 0.164  $\chi^2/\text{NDF}$ : 8542.0/59

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:  $9.709 \pm 0.231$   $\chi^2/\text{NDF}$ : 125.8/12

Right Out:  $3.809 \pm 0.259$   $\chi^2/\text{NDF}$ : 567.6/17

Left In:  $10.049 \pm 0.230$   $\chi^2/\text{NDF}$ : 294.1/12

Left:  $9.880 \pm 0.163$   $\chi^2/\text{NDF}$ : 421.0/25

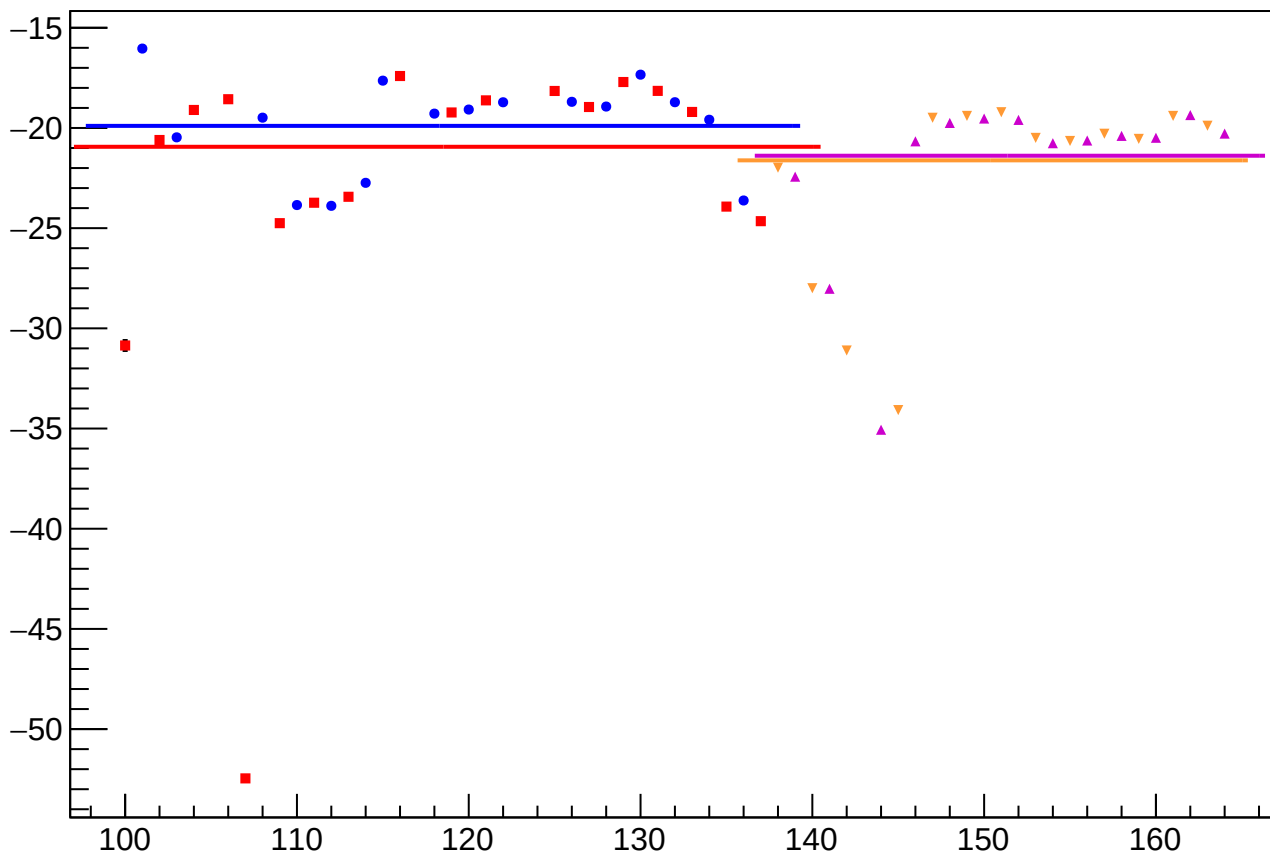
Right:  $4.313 \pm 0.180$   $\chi^2/\text{NDF}$ : 1128.9/33

In:  $7.655 \pm 0.169$   $\chi^2/\text{NDF}$ : 1086.9/28

Out:  $7.093 \pm 0.172$   $\chi^2/\text{NDF}$ : 982.5/30

All:  $7.378 \pm 0.121$   $\chi^2/\text{NDF}$ : 2074.8/59

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.895 \pm 0.016$   $\chi^2/\text{NDF}$ : 26073.6/15

Left Out:  $-21.616 \pm 0.011$   $\chi^2/\text{NDF}$ : 121704.0/12

Right Out:  $-20.938 \pm 0.016$   $\chi^2/\text{NDF}$ : 94065.2/17

Left In:  $-21.385 \pm 0.011$   $\chi^2/\text{NDF}$ : 99461.4/12

Left:  $-21.497 \pm 0.008$   $\chi^2/\text{NDF}$ : 221384.6/25

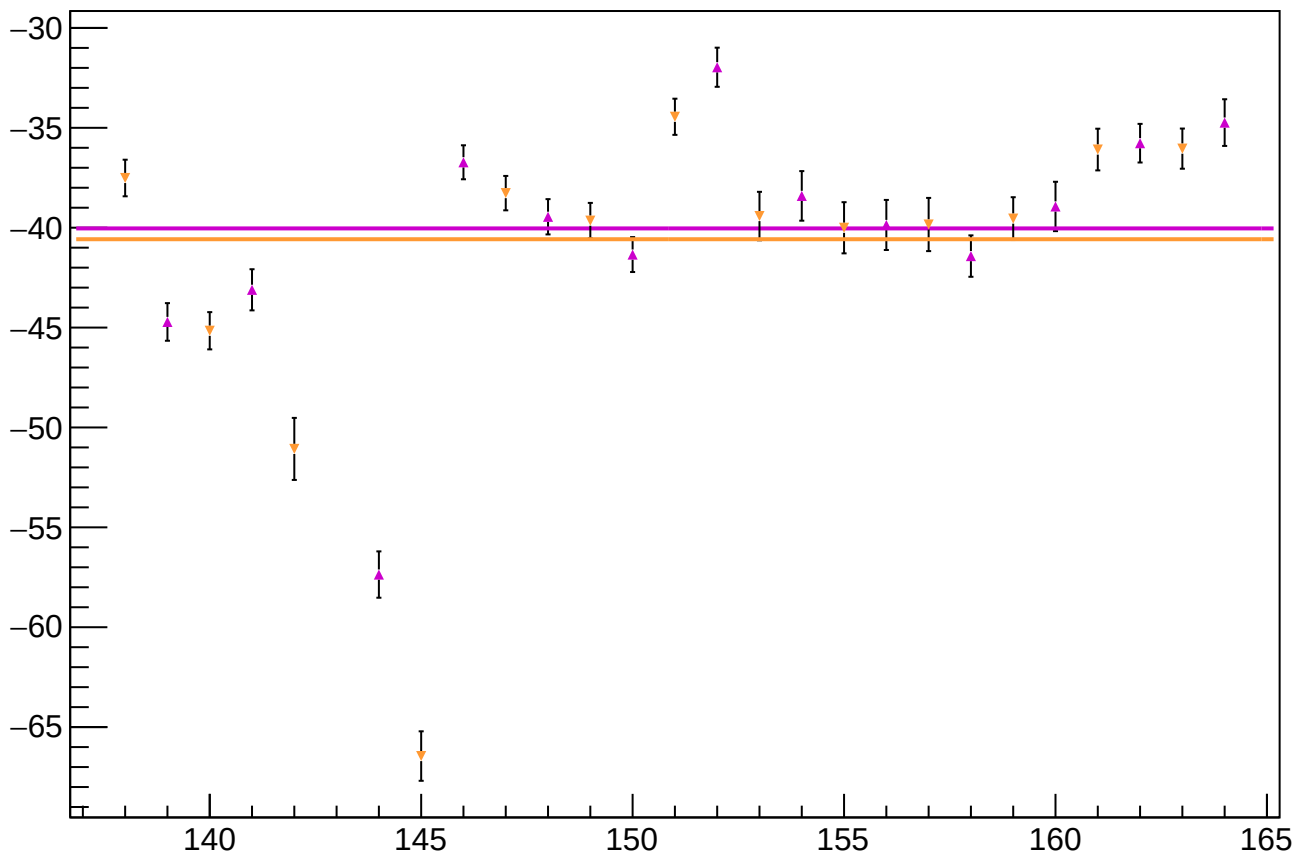
Right:  $-20.412 \pm 0.011$   $\chi^2/\text{NDF}$ : 122364.1/33

In:  $-20.899 \pm 0.009$   $\chi^2/\text{NDF}$ : 131709.0/28

Out:  $-21.387 \pm 0.009$   $\chi^2/\text{NDF}$ : 217001.7/30

All:  $-21.137 \pm 0.006$   $\chi^2/\text{NDF}$ : 350177.3/59

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



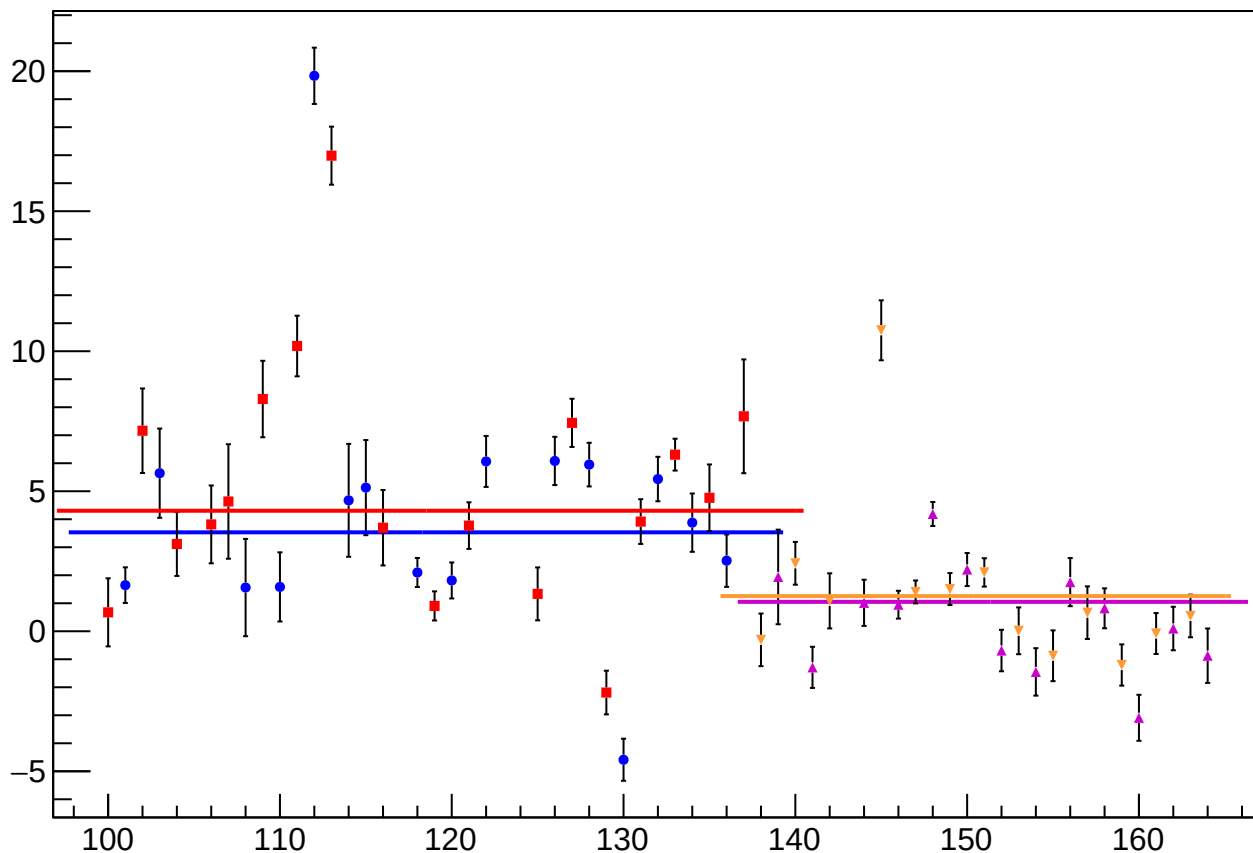
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.577+/-0.290  $\chi^2/\text{NDF}$ : 612.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.036+/-0.283  $\chi^2/\text{NDF}$ : 386.8/12

Left: -40.300+/-0.203  $\chi^2/\text{NDF}$ : 1001.2/25  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.036+/-0.283  $\chi^2/\text{NDF}$ : 386.8/12  
 Out: -40.577+/-0.290  $\chi^2/\text{NDF}$ : 612.6/12

All: -40.300+/-0.203  $\chi^2/\text{NDF}$ : 1001.2/25

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:  $1.255 \pm 0.193$   $\chi^2/\text{NDF}: 110.4/12$

Right Out:  $4.303 \pm 0.222$   $\chi^2/\text{NDF}: 352.8/17$

Left In:  $1.050 \pm 0.193$   $\chi^2/\text{NDF}: 113.6/12$

Left:  $1.153 \pm 0.136$   $\chi^2/\text{NDF}: 224.6/25$

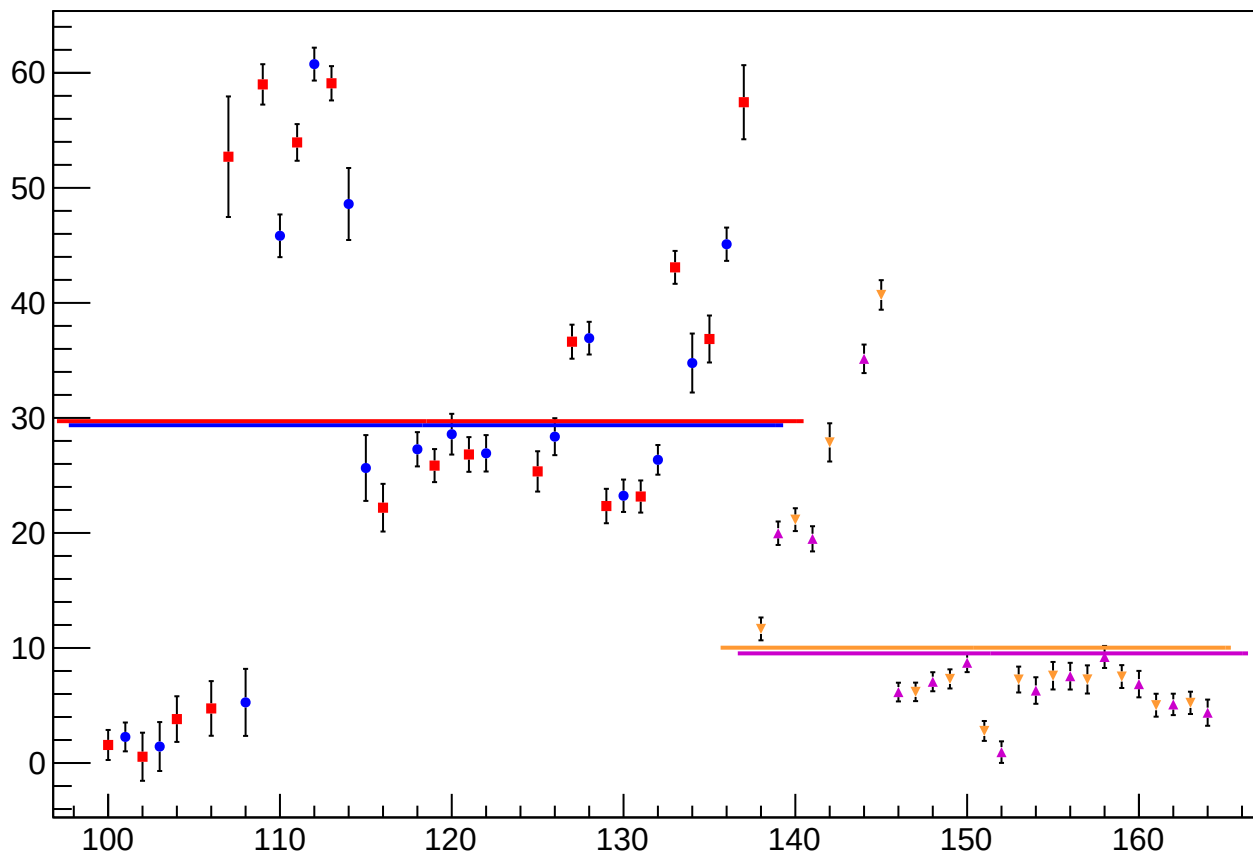
Right:  $3.910 \pm 0.155$   $\chi^2/\text{NDF}: 802.2/33$

In:  $2.147 \pm 0.144$   $\chi^2/\text{NDF}: 629.8/28$

Out:  $2.568 \pm 0.145$   $\chi^2/\text{NDF}: 570.9/30$

All:  $2.356 \pm 0.102$   $\chi^2/\text{NDF}: 1204.9/59$

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: 10.026 $\pm$ 0.282  $\chi^2$ /NDF:987.7/12

Right Out: 29.719 $\pm$ 0.402  $\chi^2$ /NDF: 2129.5/17

Left In: 9.530 $\pm$ 0.274  $\chi^2$ /NDF:784.1/12

Left: 9.771 $\pm$ 0.197  $\chi^2$ /NDF: 1773.4/25

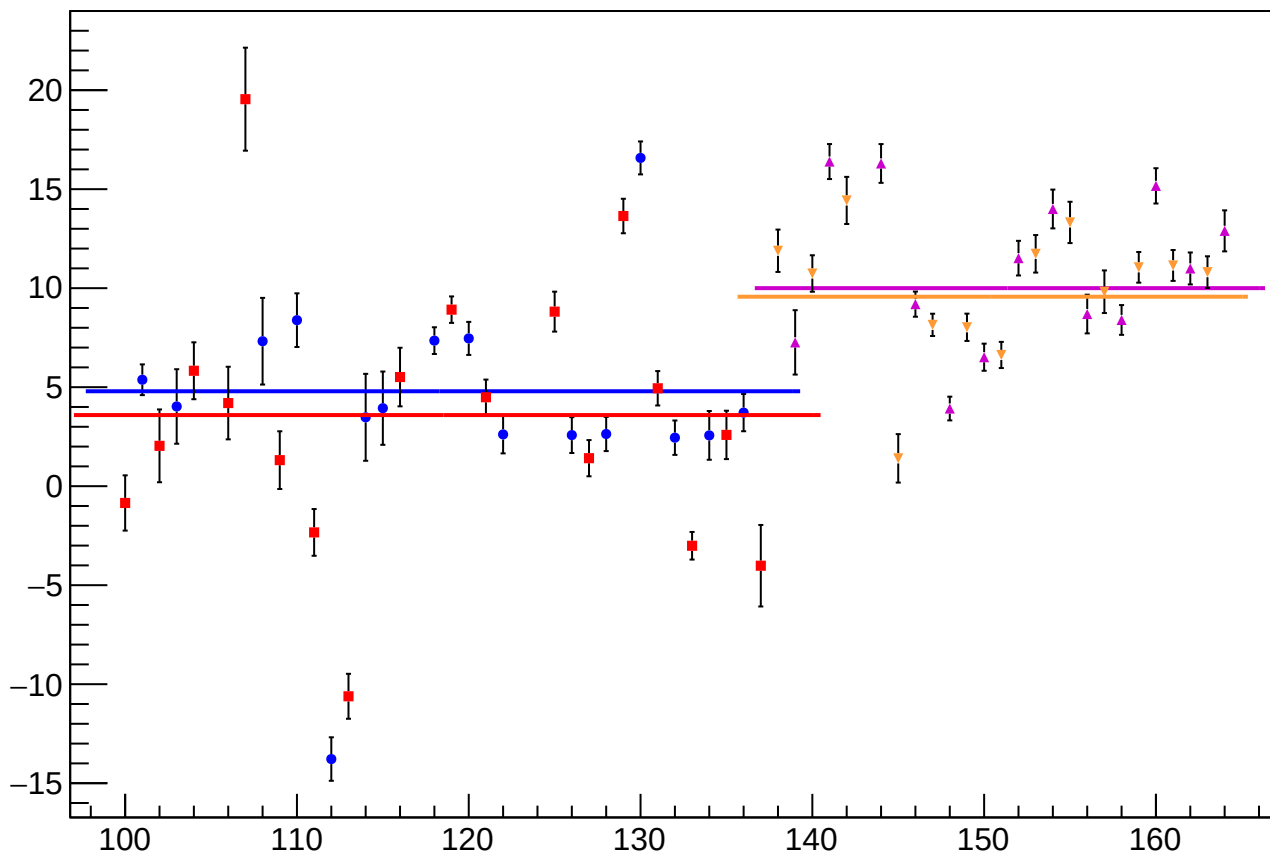
Right: 29.549 $\pm$ 0.289  $\chi^2$ /NDF: 3618.6/33

In: 15.524 $\pm$ 0.229  $\chi^2$ /NDF:3856.0/28

Out: 16.514 $\pm$ 0.231  $\chi^2$ /NDF:4722.6/30

All: 16.015 $\pm$ 0.163  $\chi^2$ /NDF: 8587.9/59

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.794 \pm 0.251$   $\chi^2/\text{NDF}$ : 550.0/15

Left Out:  $9.569 \pm 0.231$   $\chi^2/\text{NDF}$ : 127.1/12

Right Out:  $3.591 \pm 0.254$   $\chi^2/\text{NDF}$ : 573.3/17

Left In:  $10.002 \pm 0.230$   $\chi^2/\text{NDF}$ : 296.0/12

Left:  $9.787 \pm 0.163$   $\chi^2/\text{NDF}$ : 424.9/25

Right:  $4.201 \pm 0.179$   $\chi^2/\text{NDF}$ : 1134.6/33

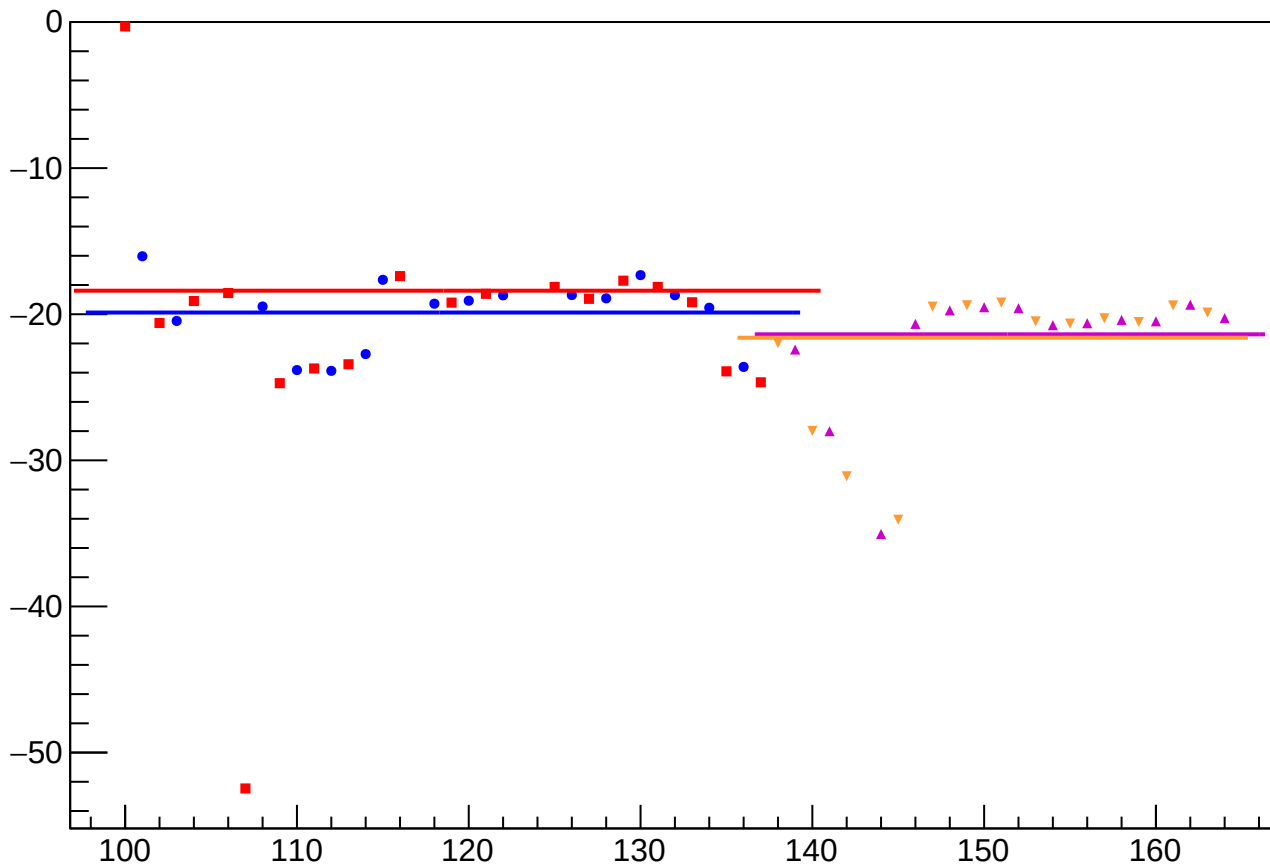
In:  $7.631 \pm 0.169$   $\chi^2/\text{NDF}$ : 1080.3/28

Out:  $6.869 \pm 0.171$   $\chi^2/\text{NDF}$ : 1003.1/30

All:  $7.254 \pm 0.120$   $\chi^2/\text{NDF}$ : 2093.4/59



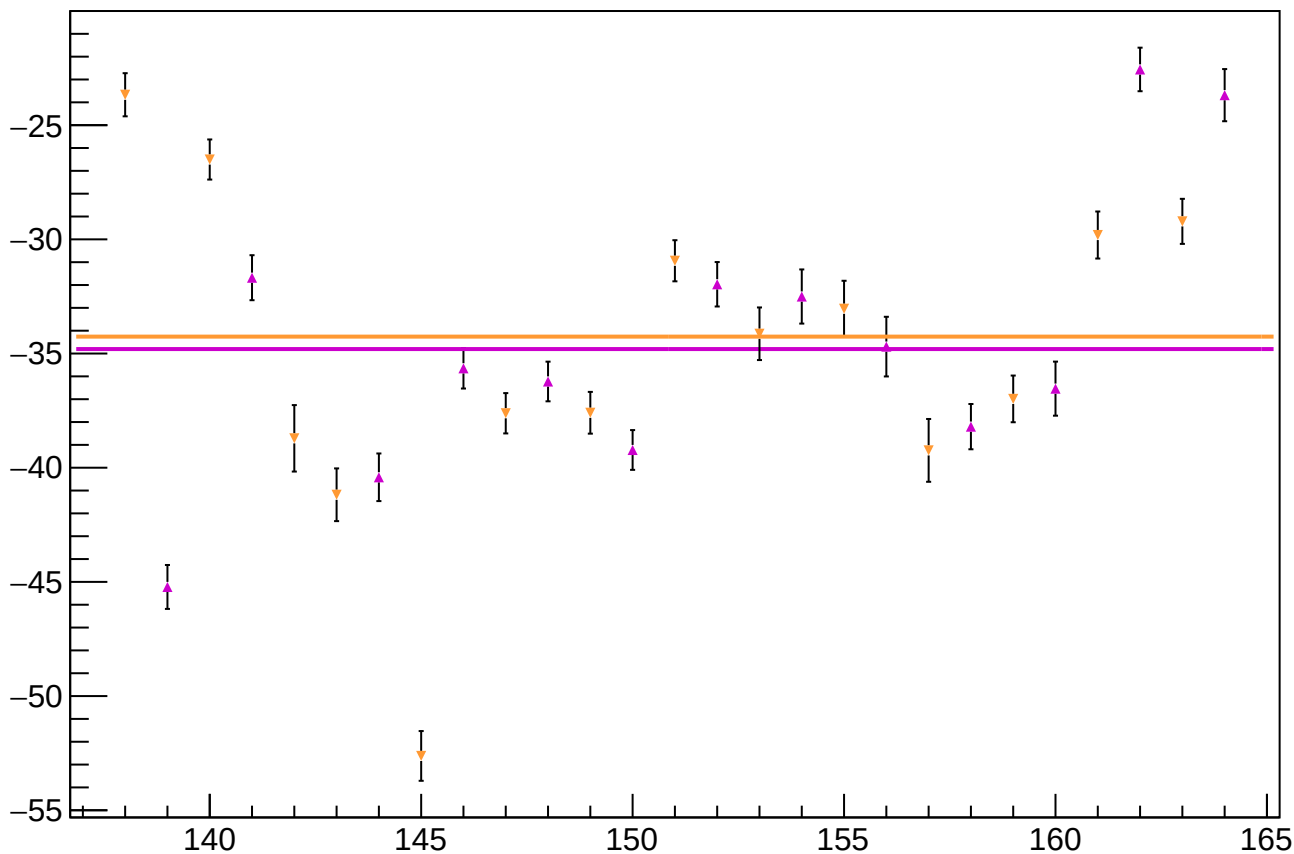
reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.883 \pm 0.016$   $\chi^2/\text{NDF}$ : 26063.5/15  
 Left Out:  $-21.609 \pm 0.011$   $\chi^2/\text{NDF}$ : 121741.6/12  
 Right Out:  $-18.390 \pm 0.015$   $\chi^2/\text{NDF}$ : 301247.7/17  
 Left In:  $-21.375 \pm 0.011$   $\chi^2/\text{NDF}$ : 99397.4/12

Left:  $-21.488 \pm 0.008$   $\chi^2/\text{NDF}$ : 221364.2/25  
 Right:  $-19.096 \pm 0.011$   $\chi^2/\text{NDF}$ : 332167.8/33  
 In:  $-20.889 \pm 0.009$   $\chi^2/\text{NDF}$ : 131658.2/28  
 Out:  $-20.429 \pm 0.009$   $\chi^2/\text{NDF}$ : 453218.0/30  
 All:  $-20.660 \pm 0.006$   $\chi^2/\text{NDF}$ : 586206.5/59

reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



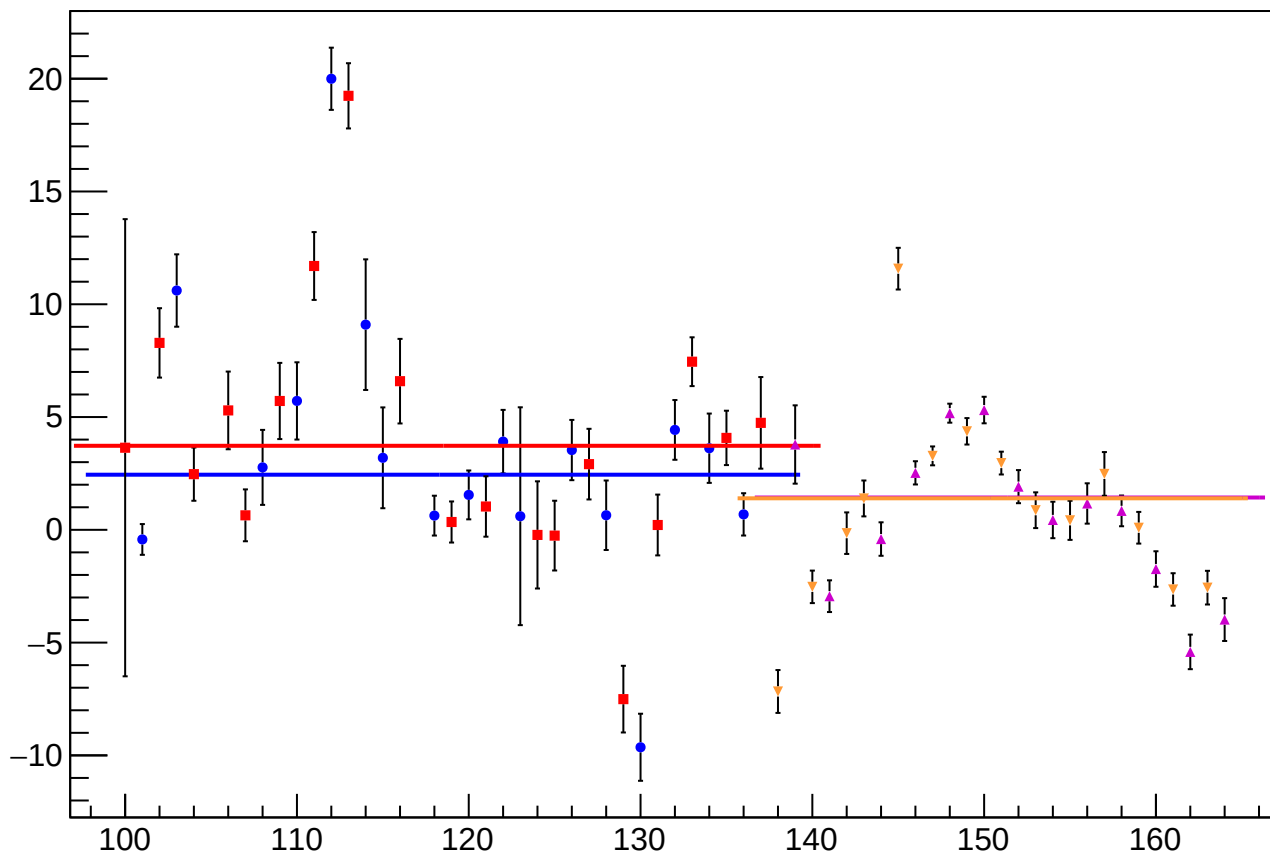
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.259+/-0.277  $\chi^2/\text{NDF}$ : 640.8/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.804+/-0.278  $\chi^2/\text{NDF}$ : 471.6/12

Left: -34.530+/-0.196  $\chi^2/\text{NDF}$ : 1114.3/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.804+/-0.278  $\chi^2/\text{NDF}$ : 471.6/12  
 Out: -34.259+/-0.277  $\chi^2/\text{NDF}$ : 640.8/13

All: -34.530+/-0.196  $\chi^2/\text{NDF}$ : 1114.3/26

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.444 \pm 0.311$   $\chi^2/\text{NDF}$ : 295.3/16

Left Out:  $1.397 \pm 0.185$   $\chi^2/\text{NDF}$ : 356.5/13

Right Out:  $3.726 \pm 0.327$   $\chi^2/\text{NDF}$ : 269.1/18

Left In:  $1.432 \pm 0.190$   $\chi^2/\text{NDF}$ : 304.7/12

Left:  $1.414 \pm 0.133$   $\chi^2/\text{NDF}$ : 661.2/26

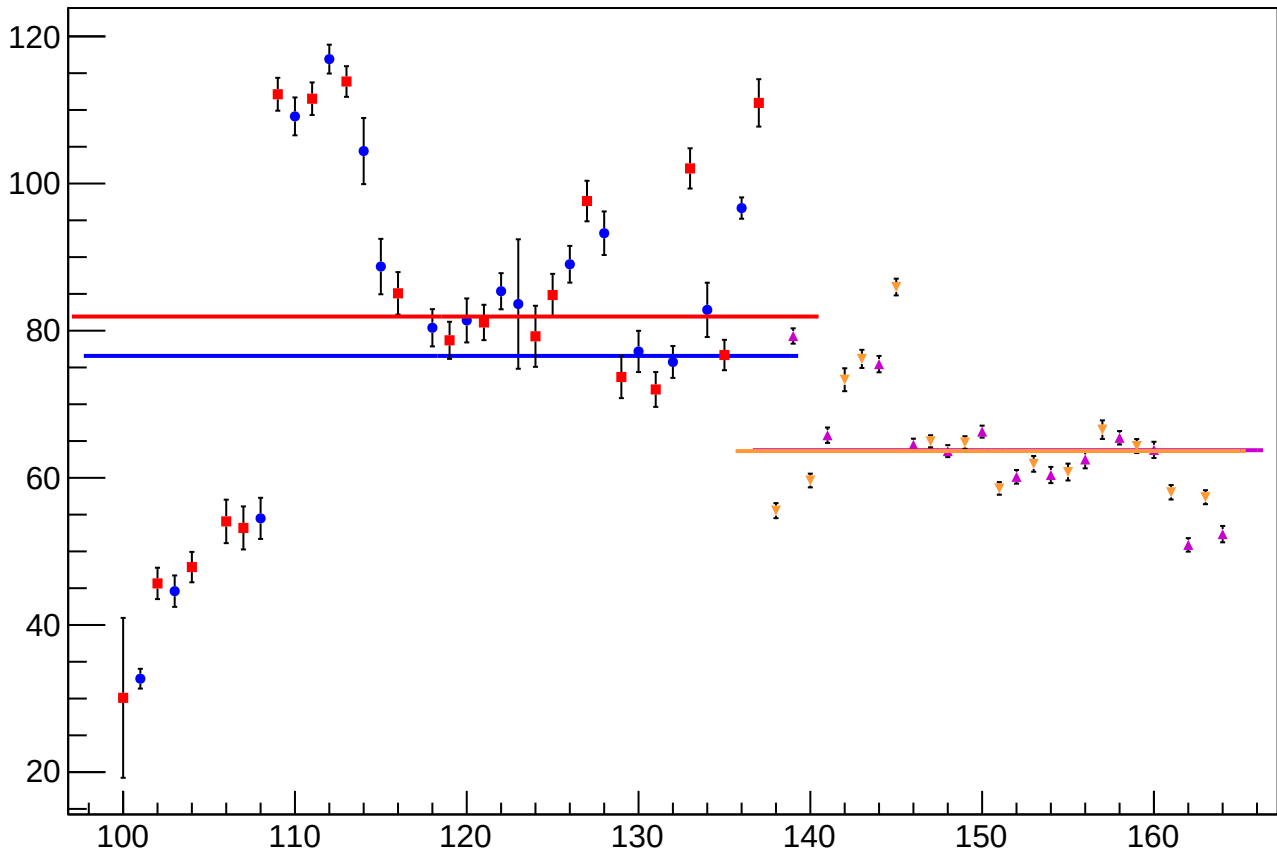
Right:  $3.053 \pm 0.225$   $\chi^2/\text{NDF}$ : 572.5/35

In:  $1.707 \pm 0.162$   $\chi^2/\text{NDF}$ : 607.7/29

Out:  $1.962 \pm 0.161$   $\chi^2/\text{NDF}$ : 664.0/32

All:  $1.836 \pm 0.114$   $\chi^2/\text{NDF}$ : 1273.0/62

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.572 $\pm$ 0.573  $\chi^2$ /NDF: 2253.6/16

Left Out: 63.638 $\pm$ 0.271  $\chi^2$ /NDF:737.2/13

Right Out: 81.923 $\pm$ 0.592  $\chi^2$ /NDF: 1570.6/18

Left In: 63.753 $\pm$ 0.270  $\chi^2$ /NDF:677.2/12

Left: 63.696 $\pm$ 0.191  $\chi^2$ /NDF: 1414.5/26

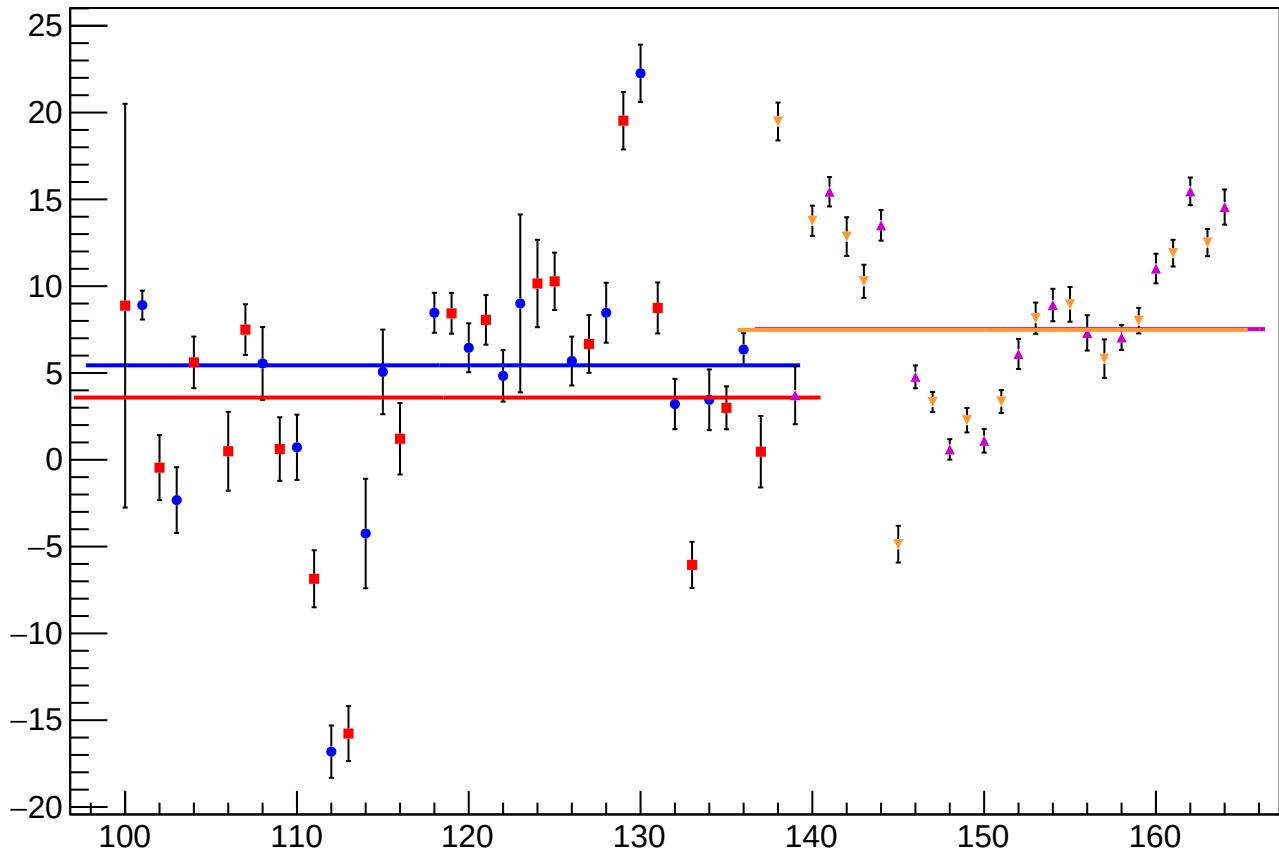
Right: 79.162 $\pm$ 0.412  $\chi^2$ /NDF: 3866.3/35

In: 66.080 $\pm$ 0.244  $\chi^2$ /NDF:3340.0/29

Out: 66.800 $\pm$ 0.246  $\chi^2$ /NDF:3097.0/32

All: 66.437 $\pm$ 0.173  $\chi^2$ /NDF: 6441.4/62

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:  $7.486 \pm 0.221$   $\chi^2/\text{NDF}: 566.5/13$

Right Out:  $3.585 \pm 0.375$   $\chi^2/\text{NDF}: 423.2/18$

Left In:  $7.528 \pm 0.225$   $\chi^2/\text{NDF}: 553.1/12$

Left:  $7.507 \pm 0.158$   $\chi^2/\text{NDF}: 1119.6/26$

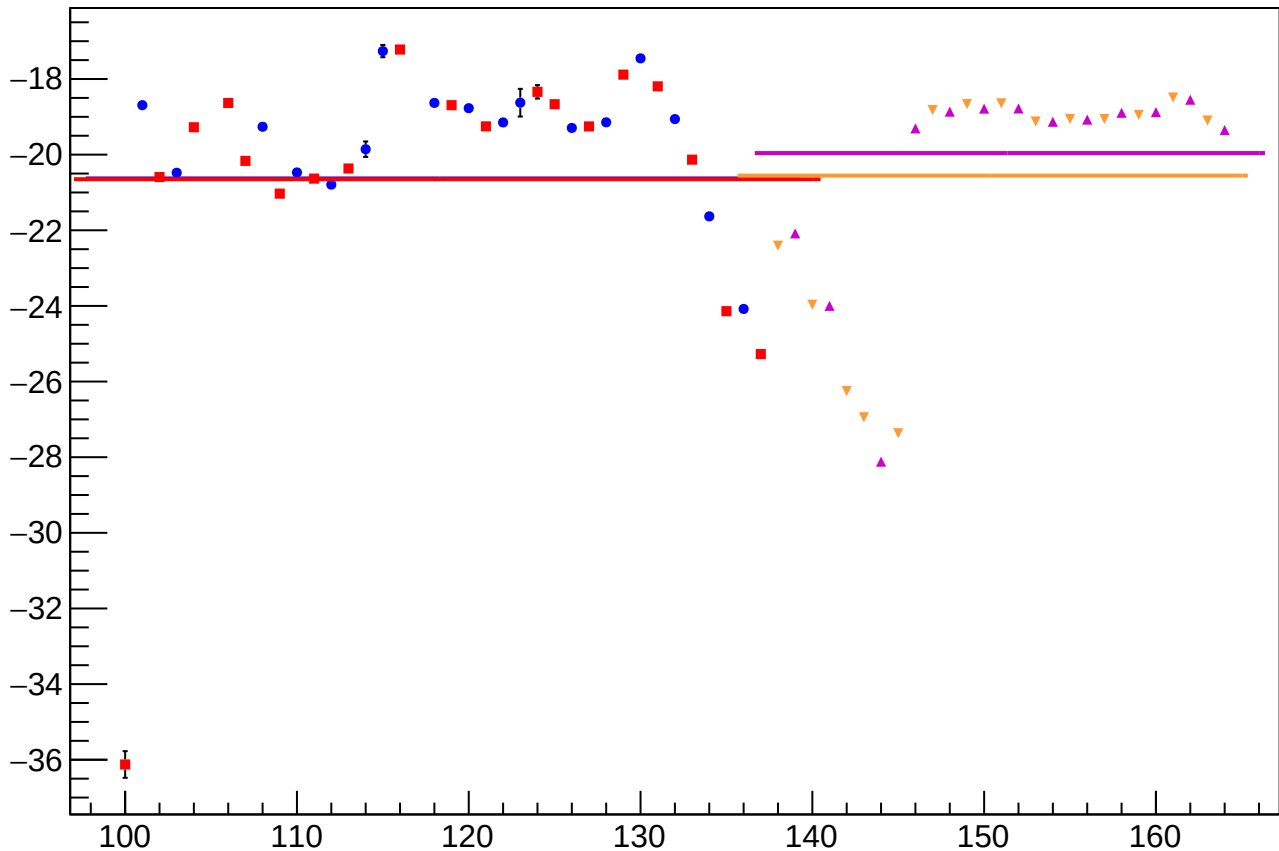
Right:  $4.559 \pm 0.259$   $\chi^2/\text{NDF}: 823.5/35$

In:  $6.934 \pm 0.191$   $\chi^2/\text{NDF}: 965.0/29$

Out:  $6.481 \pm 0.190$   $\chi^2/\text{NDF}: 1069.9/32$

All:  $6.707 \pm 0.135$   $\chi^2/\text{NDF}: 2037.7/62$

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.630 $\pm$ 0.019  $\chi^2$ /NDF: 12490.5/16

Left Out: -20.554 $\pm$ 0.011  $\chi^2$ /NDF: 75259.0/13

Right Out: -20.650 $\pm$ 0.019  $\chi^2$ /NDF: 13885.7/18

Left In: -19.958 $\pm$ 0.011  $\chi^2$ /NDF: 48230.7/12

Left: -20.254 $\pm$ 0.008  $\chi^2$ /NDF: 125040.9/26

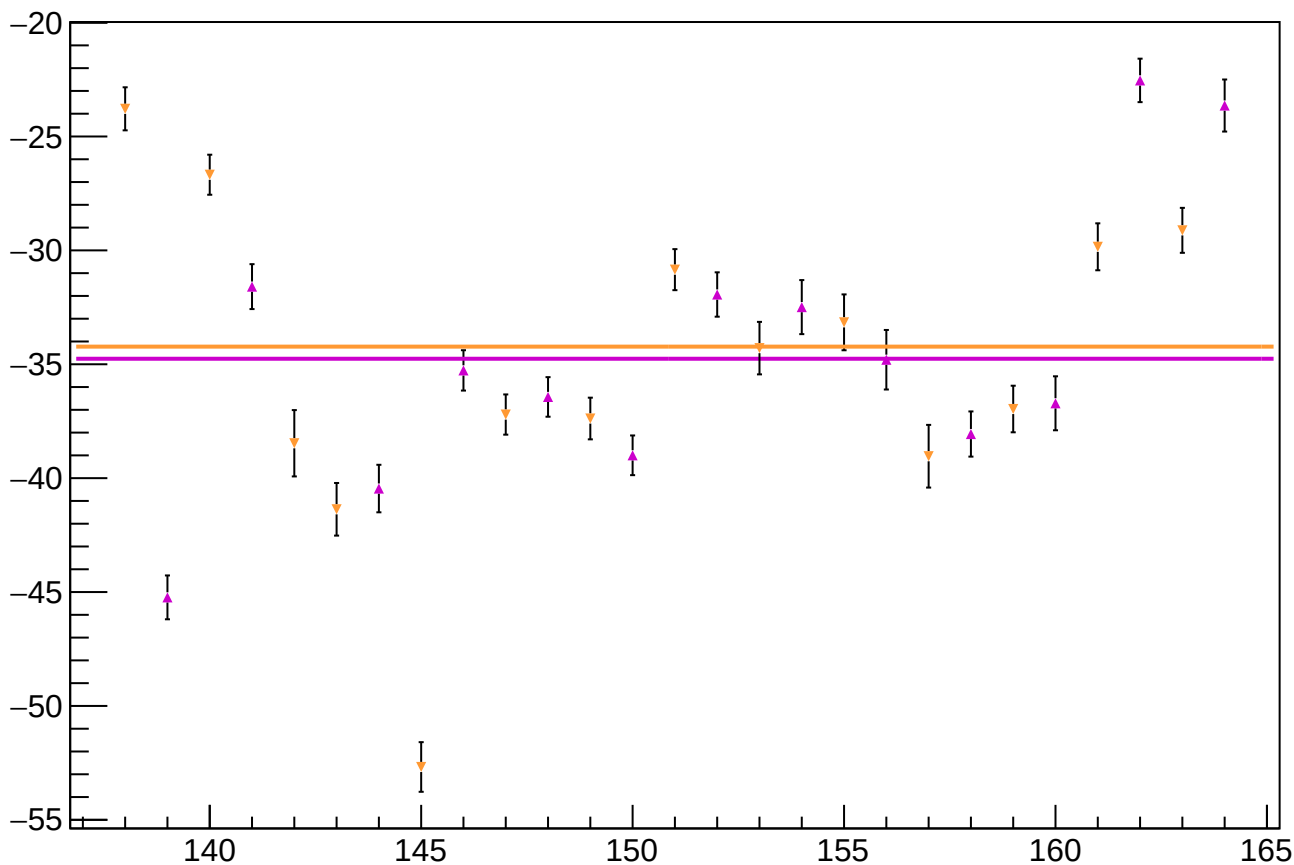
Right: -20.640 $\pm$ 0.014  $\chi^2$ /NDF: 26376.6/35

In: -20.116 $\pm$ 0.009  $\chi^2$ /NDF: 61652.8/29

Out: -20.576 $\pm$ 0.009  $\chi^2$ /NDF: 89163.2/32

All: -20.344 $\pm$ 0.007  $\chi^2$ /NDF: 152026.6/62

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: -34.225+/-0.277  $\chi^2/\text{NDF}$ :631.6/13

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

Left In: -34.758+/-0.279  $\chi^2/\text{NDF}$ :470.9/12

Left: -34.490+/-0.196  $\chi^2/\text{NDF}$ : 1104.4/26

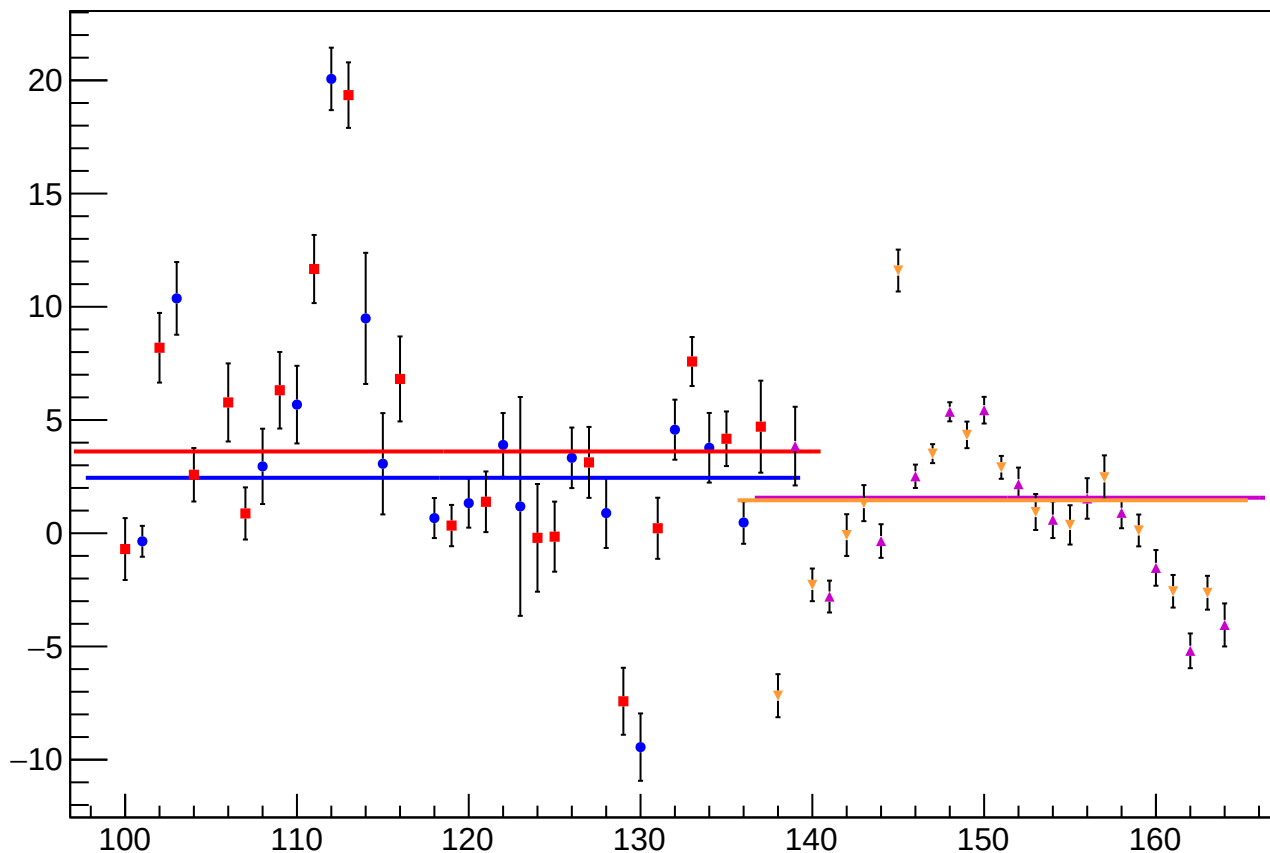
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.758+/-0.279  $\chi^2/\text{NDF}$ :470.9/12

Out: -34.225+/-0.277  $\chi^2/\text{NDF}$ :631.6/13

All: -34.490+/-0.196  $\chi^2/\text{NDF}$ : 1104.4/26

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:  $1.455 \pm 0.185$   $\chi^2/\text{NDF}$ : 356.7/13

Right Out:  $3.611 \pm 0.318$   $\chi^2/\text{NDF}$ : 279.4/18

Left In:  $1.569 \pm 0.190$   $\chi^2/\text{NDF}$ : 305.7/12

Left:  $1.510 \pm 0.133$   $\chi^2/\text{NDF}$ : 662.5/26

Right:  $3.017 \pm 0.223$   $\chi^2/\text{NDF}$ : 579.6/35

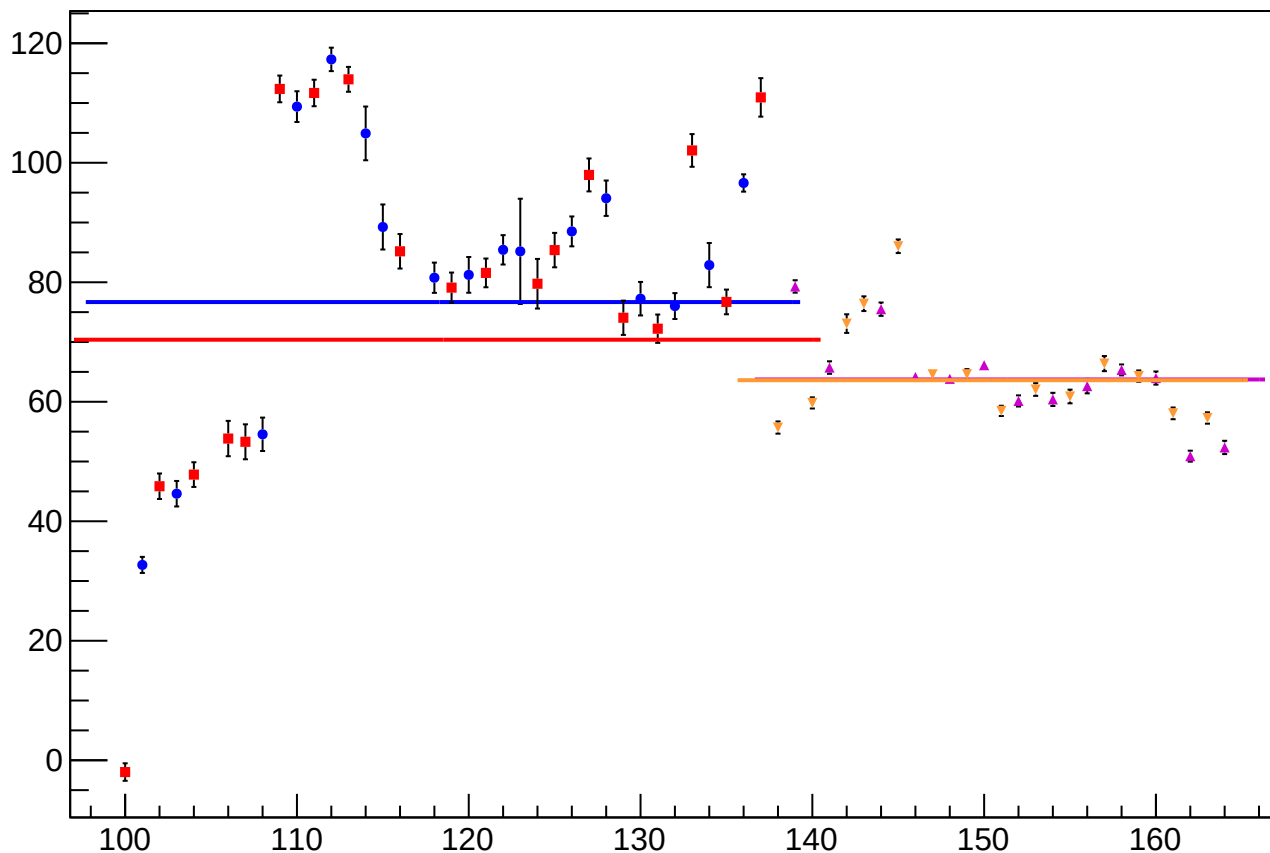
In:  $1.808 \pm 0.162$   $\chi^2/\text{NDF}$ : 604.9/29

Out:  $2.000 \pm 0.160$   $\chi^2/\text{NDF}$ : 670.3/32

All:  $1.905 \pm 0.114$   $\chi^2/\text{NDF}$ : 1275.9/62



reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.687 $\pm$ 0.574  $\chi^2$ /NDF: 2265.1/16

Left Out: 63.608 $\pm$ 0.271  $\chi^2$ /NDF: 736.7/13

Right Out: 70.386 $\pm$ 0.550  $\chi^2$ /NDF: 4391.1/18

Left In: 63.732 $\pm$ 0.270  $\chi^2$ /NDF: 674.7/12

Left: 63.670 $\pm$ 0.191  $\chi^2$ /NDF: 1411.5/26

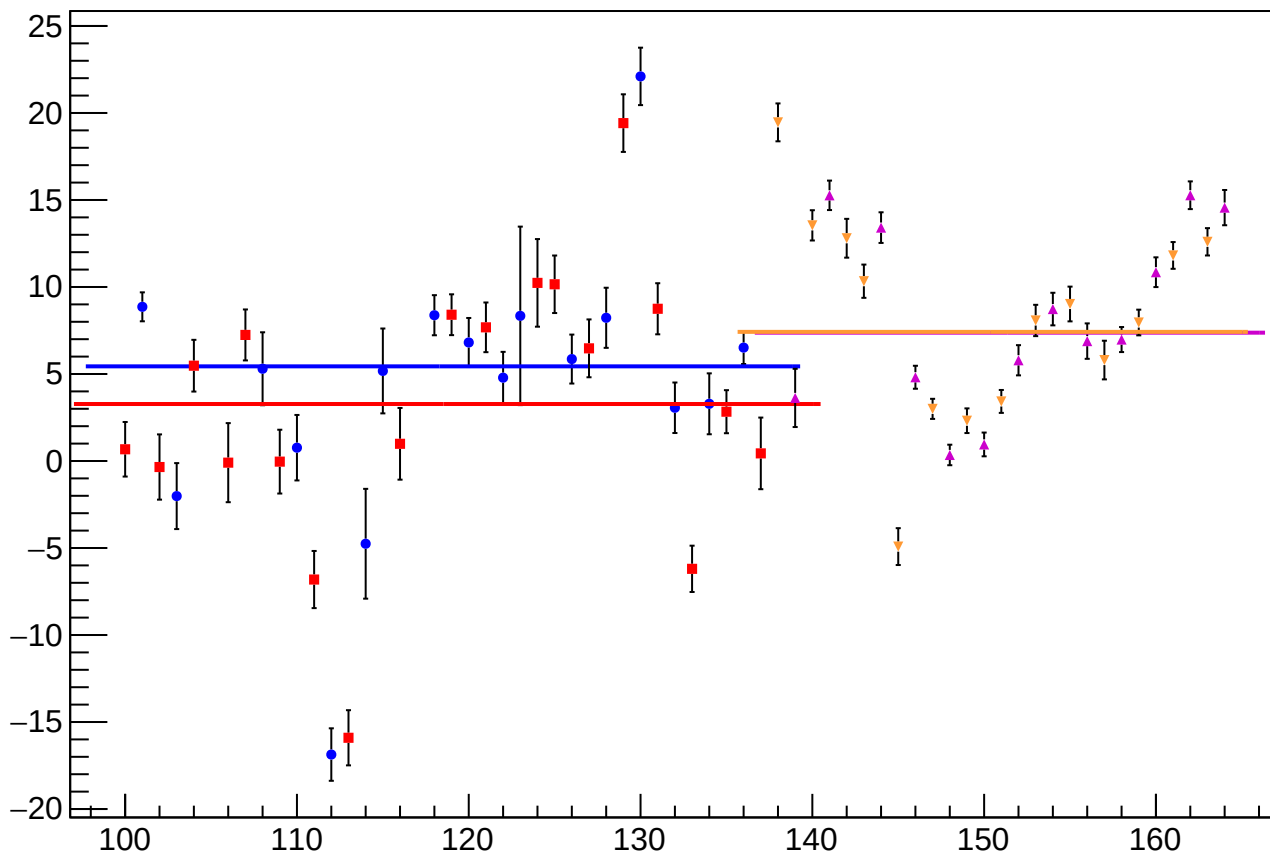
Right: 73.402 $\pm$ 0.397  $\chi^2$ /NDF: 6719.1/35

In: 66.084 $\pm$ 0.244  $\chi^2$ /NDF: 3357.2/29

Out: 64.932 $\pm$ 0.243  $\chi^2$ /NDF: 5250.1/32

All: 65.504 $\pm$ 0.172  $\chi^2$ /NDF: 8618.5/62

reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.439 $\pm$ 0.357  $\chi^2$ /NDF: 385.9/16

Left Out: 7.421 $\pm$ 0.221  $\chi^2$ /NDF: 569.5/13

Right Out: 3.275 $\pm$ 0.365  $\chi^2$ /NDF: 425.8/18

Left In: 7.375 $\pm$ 0.226  $\chi^2$ /NDF: 555.8/12

Left: 7.398 $\pm$ 0.158  $\chi^2$ /NDF: 1125.3/26

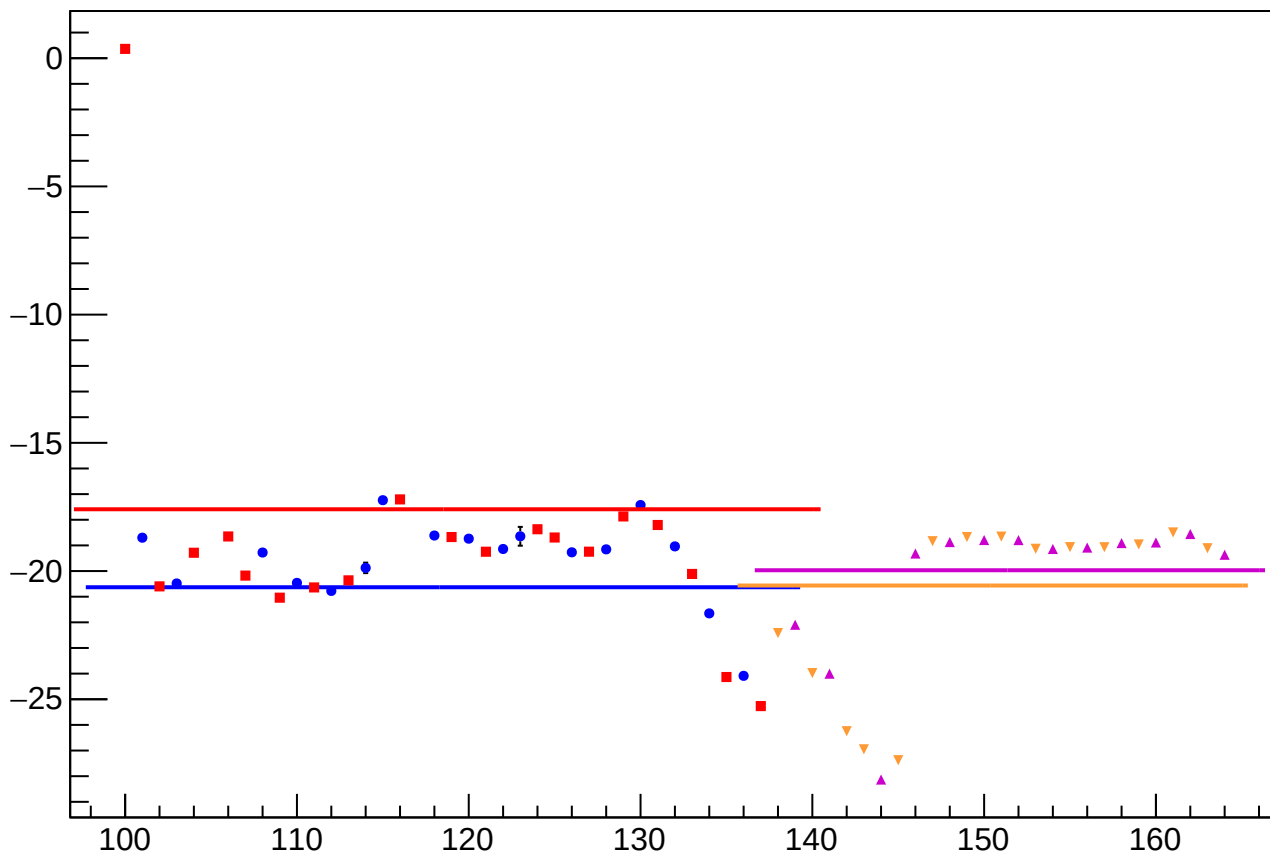
Right: 4.381 $\pm$ 0.256  $\chi^2$ /NDF: 829.6/35

In: 6.823 $\pm$ 0.191  $\chi^2$ /NDF: 962.7/29

Out: 6.310 $\pm$ 0.189  $\chi^2$ /NDF: 1089.5/32

All: 6.564 $\pm$ 0.134  $\chi^2$ /NDF: 2055.9/62

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: -20.564 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 75100.5/13

Right Out: -17.591 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 178680.7/18

Left In: -19.969 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 48161.9/12

Left: -20.265 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 124807.5/26

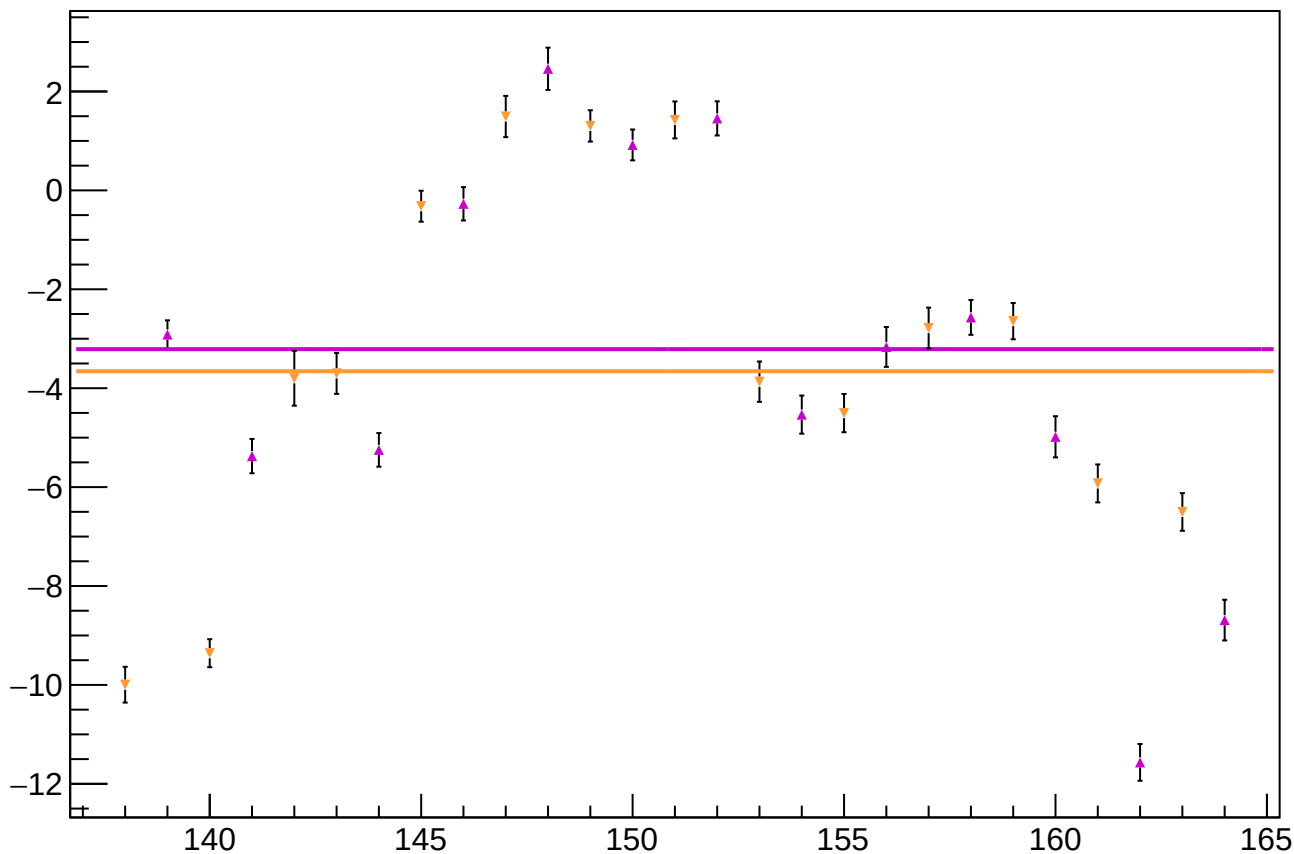
Right: -19.007 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 204486.4/35

In: -20.124 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 61595.9/29

Out: -19.784 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 273879.3/32

All: -19.952 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 336146.9/62

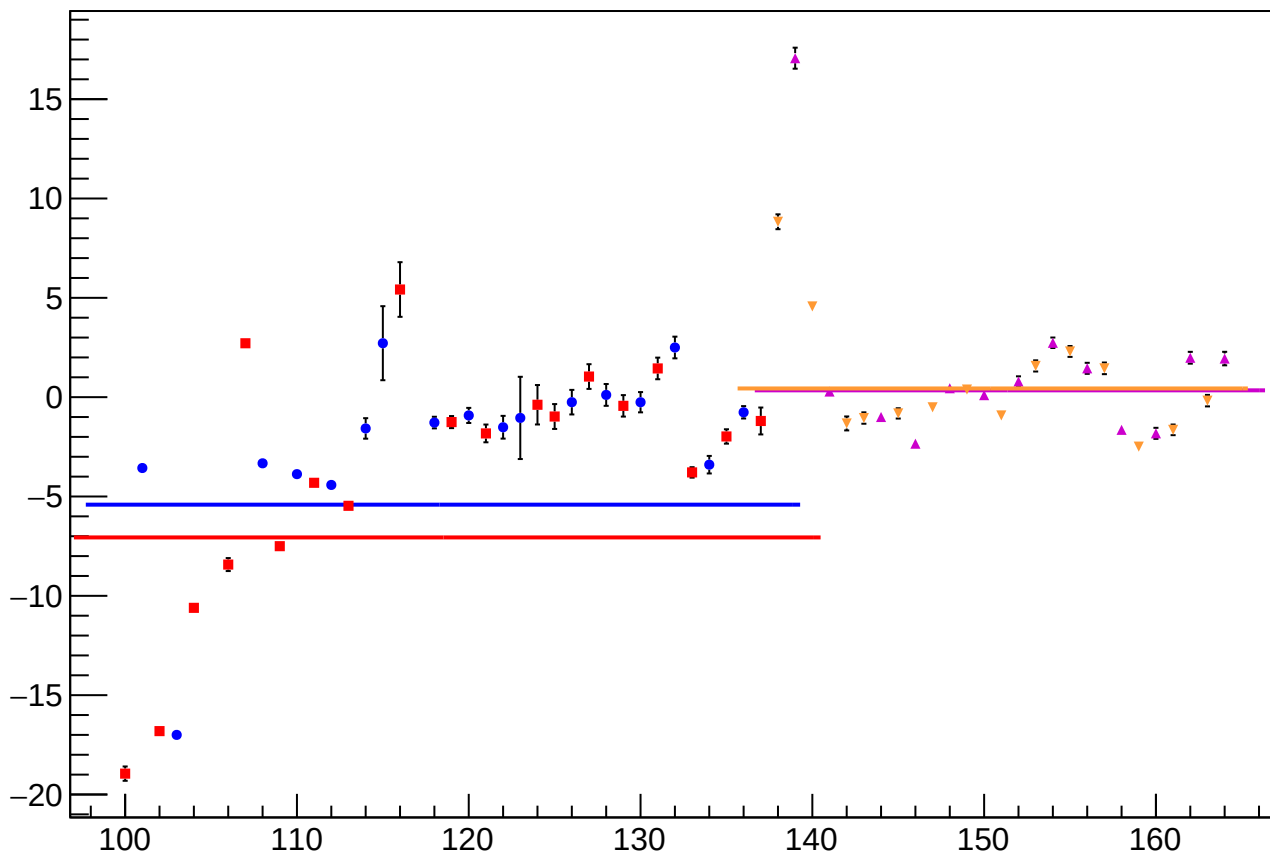
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.657 $\pm$ 0.099  $\chi^2/\text{NDF}$ :1517.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.210 $\pm$ 0.099  $\chi^2/\text{NDF}$ :1401.3/12

Left: -3.434 $\pm$ 0.070  $\chi^2/\text{NDF}$ : 2929.3/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.210 $\pm$ 0.099  $\chi^2/\text{NDF}$ :1401.3/12  
 Out: -3.657 $\pm$ 0.099  $\chi^2/\text{NDF}$ :1517.8/13  
 All: -3.434 $\pm$ 0.070  $\chi^2/\text{NDF}$ : 2929.3/26

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:  $0.438 \pm 0.069$   $\chi^2/\text{NDF}$ : 1220.0/13

Right Out:  $-7.060 \pm 0.059$   $\chi^2/\text{NDF}$ : 12329.4/18

Left In:  $0.344 \pm 0.072$   $\chi^2/\text{NDF}$ : 1470.4/12

Left:  $0.392 \pm 0.050$   $\chi^2/\text{NDF}$ : 2691.3/26

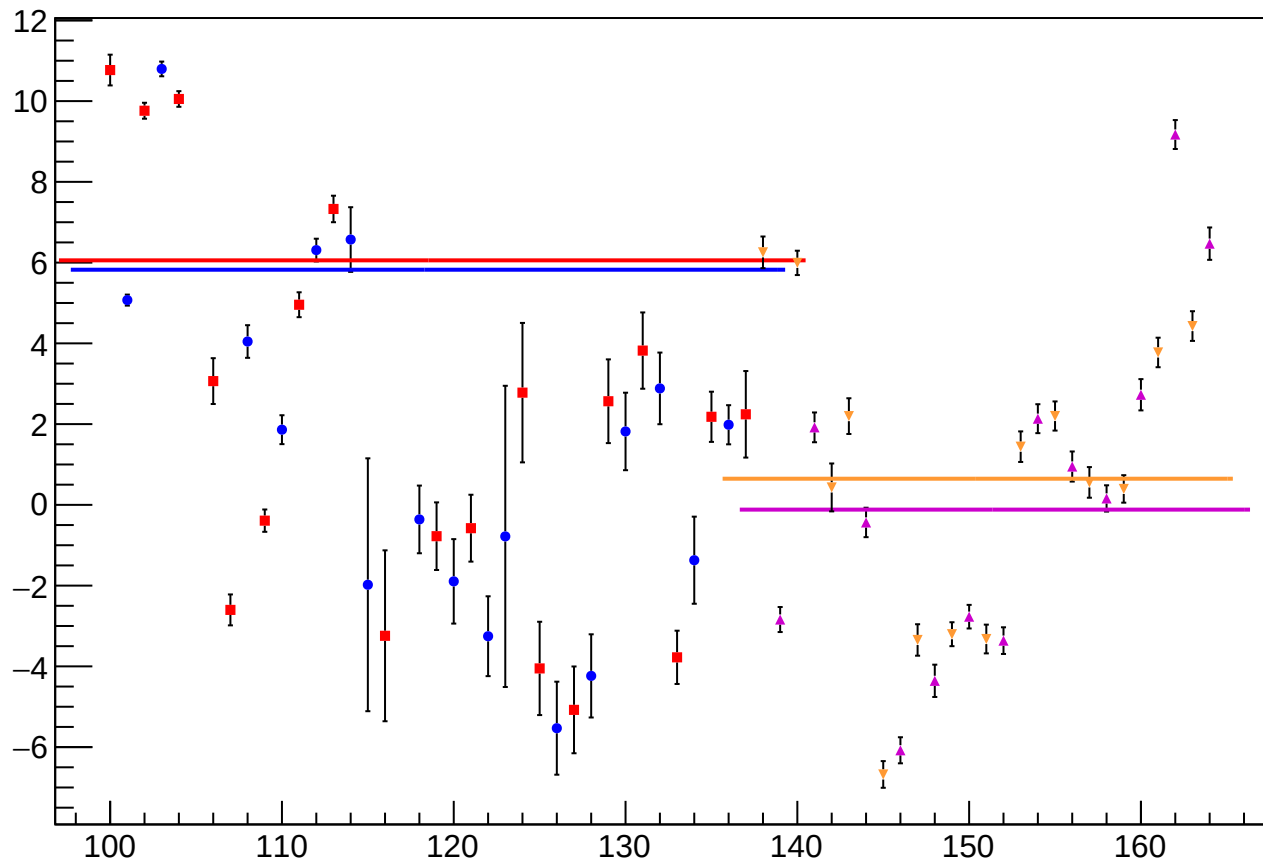
Right:  $-6.173 \pm 0.040$   $\chi^2/\text{NDF}$ : 22010.3/35

In:  $-3.288 \pm 0.043$   $\chi^2/\text{NDF}$ : 14809.5/29

Out:  $-3.906 \pm 0.045$   $\chi^2/\text{NDF}$ : 20335.5/32

All:  $-3.587 \pm 0.031$   $\chi^2/\text{NDF}$ : 35242.5/62

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:  $0.648 \pm 0.097$   $\chi^2/\text{NDF}: 1622.8/13$

Right Out:  $6.056 \pm 0.093$   $\chi^2/\text{NDF}: 2668.9/18$

Left In:  $-0.118 \pm 0.097$   $\chi^2/\text{NDF}: 1785.7/12$

Left:  $0.262 \pm 0.069$   $\chi^2/\text{NDF}: 3439.6/26$

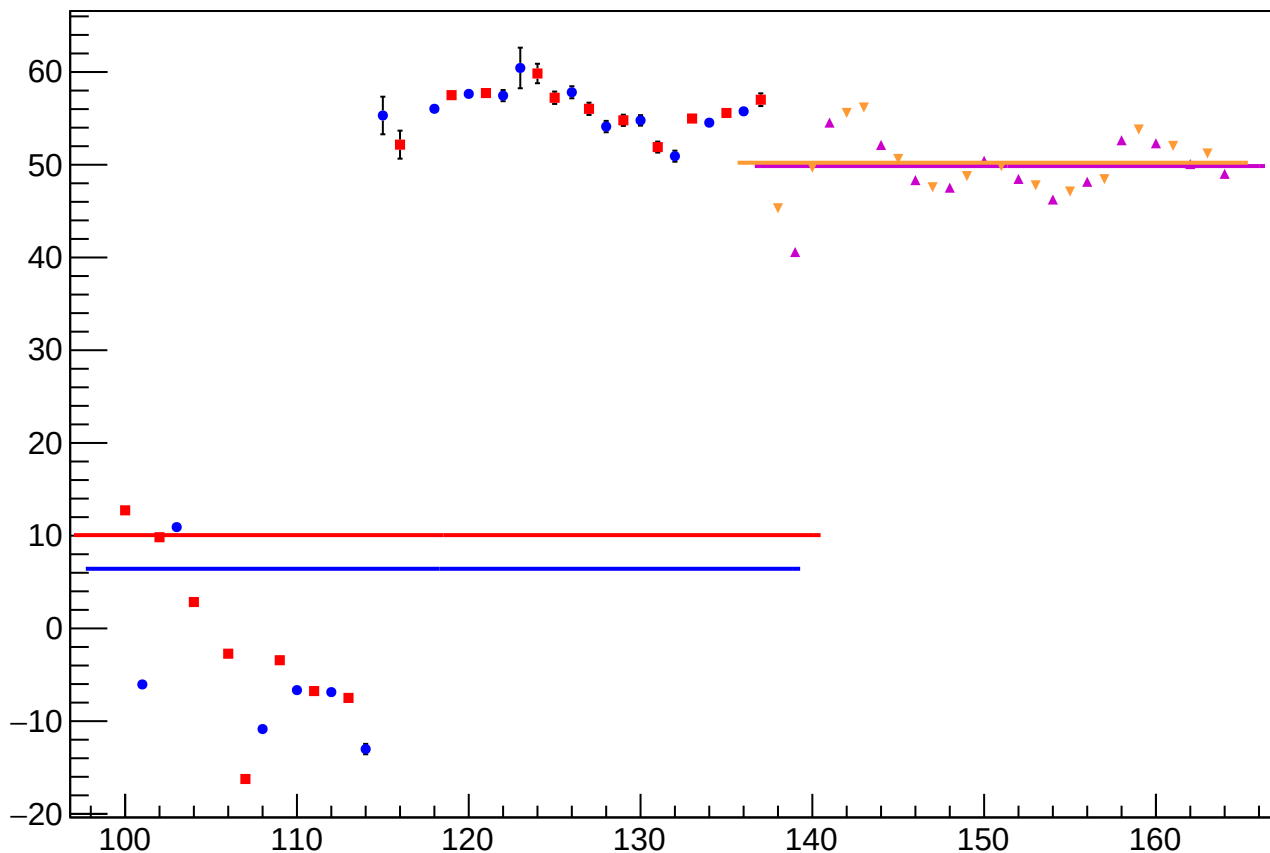
Right:  $5.935 \pm 0.065$   $\chi^2/\text{NDF}: 4124.7/35$

In:  $3.077 \pm 0.066$   $\chi^2/\text{NDF}: 5271.7/29$

Out:  $3.465 \pm 0.067$   $\chi^2/\text{NDF}: 5900.7/32$

All:  $3.267 \pm 0.047$   $\chi^2/\text{NDF}: 11189.4/62$

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:  $50.219 \pm 0.081$   $\chi^2/\text{NDF}: 1145.3/13$

Right Out:  $10.060 \pm 0.070$   $\chi^2/\text{NDF}: 121816.0/18$

Left In:  $49.858 \pm 0.083$   $\chi^2/\text{NDF}: 1120.5/12$

Left:  $50.042 \pm 0.058$   $\chi^2/\text{NDF}: 2275.5/26$

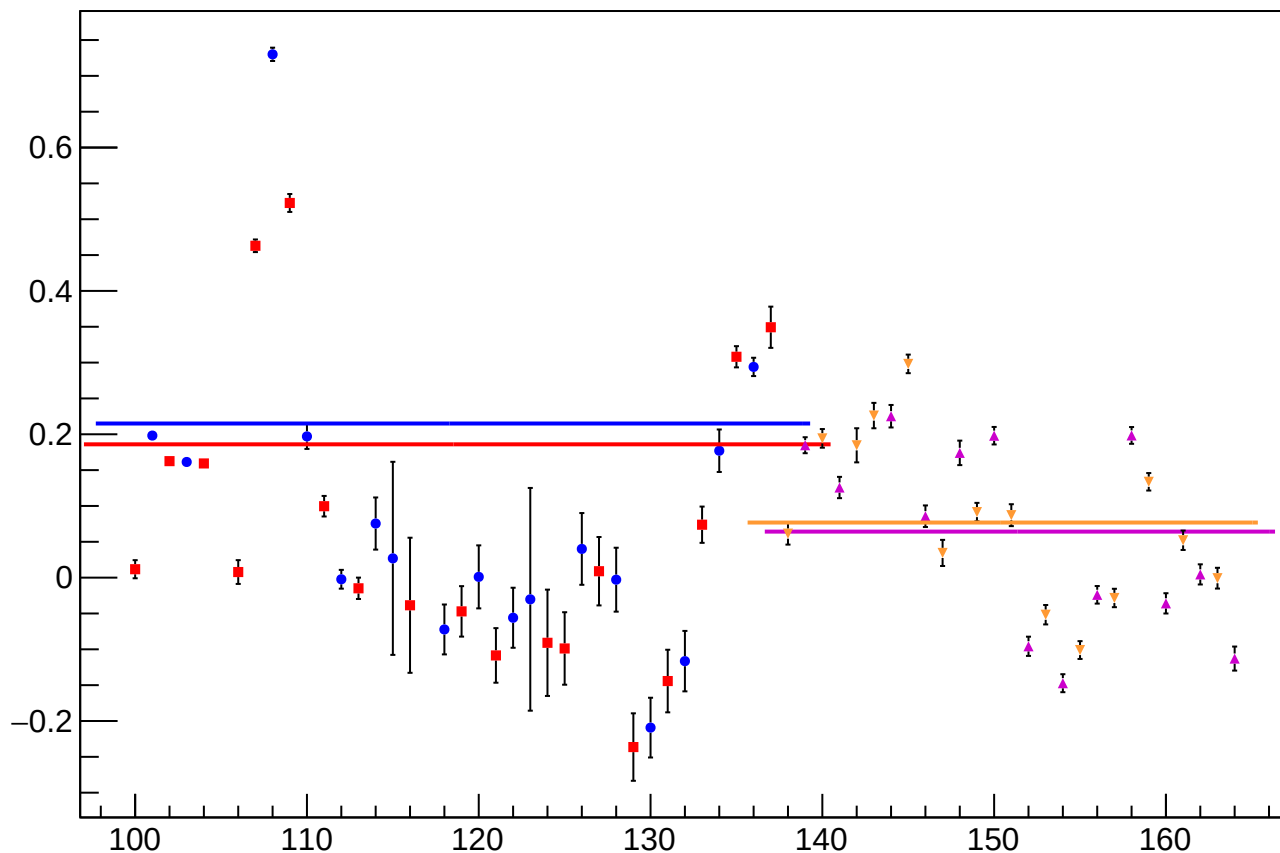
Right:  $8.110 \pm 0.047$   $\chi^2/\text{NDF}: 246756.9/35$

In:  $22.864 \pm 0.051$   $\chi^2/\text{NDF}: 295073.8/29$

Out:  $27.099 \pm 0.053$   $\chi^2/\text{NDF}: 263643.8/32$

All:  $24.904 \pm 0.037$   $\chi^2/\text{NDF}: 562037.2/62$

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:  $0.077 \pm 0.004$   $\chi^2/\text{NDF}$ : 889.0/13

Right Out:  $0.186 \pm 0.003$   $\chi^2/\text{NDF}$ : 2720.3/18

Left In:  $0.064 \pm 0.004$   $\chi^2/\text{NDF}$ : 1192.2/12

Left:  $0.070 \pm 0.003$   $\chi^2/\text{NDF}$ : 2086.8/26

Right:  $0.200 \pm 0.002$   $\chi^2/\text{NDF}$ : 6707.1/35

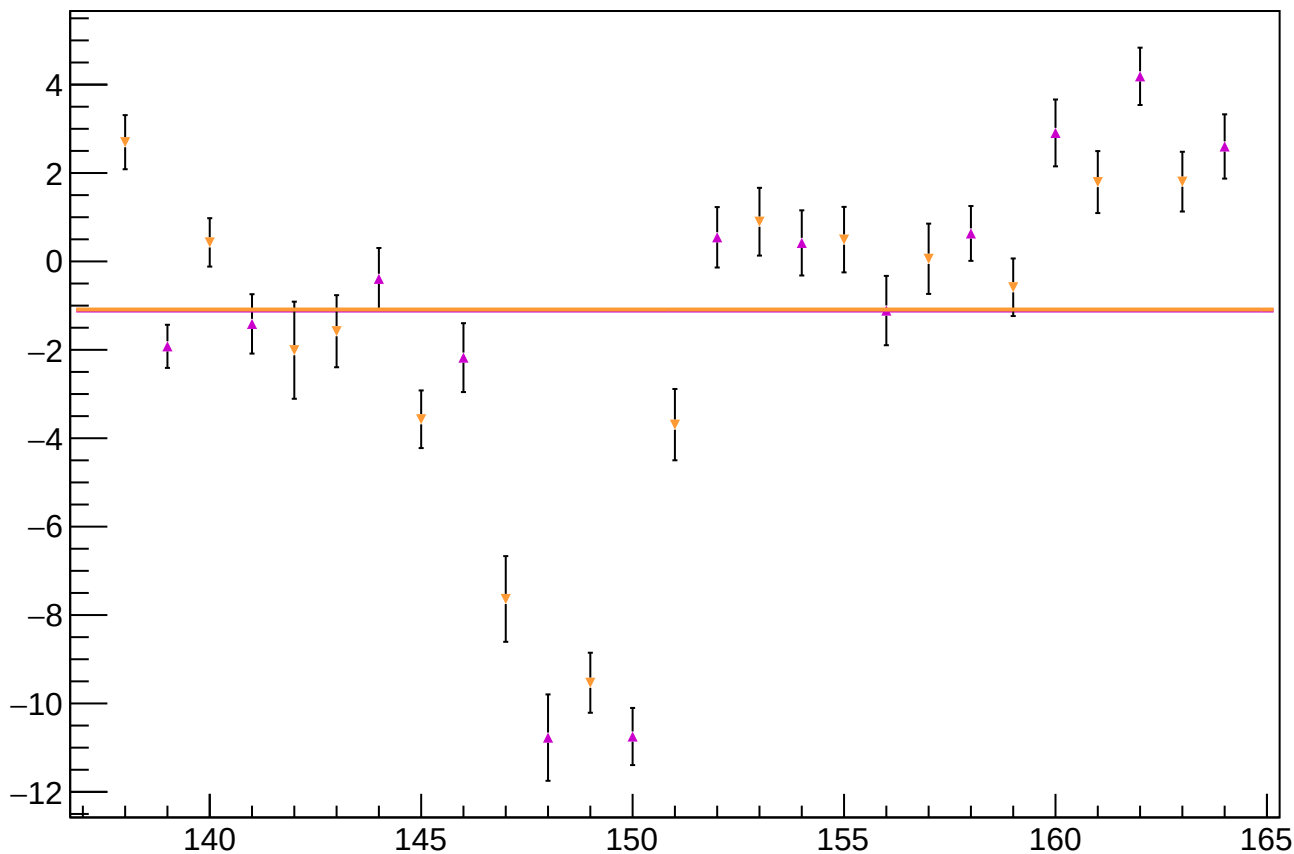
In:  $0.162 \pm 0.002$   $\chi^2/\text{NDF}$ : 6165.1/29

Out:  $0.150 \pm 0.002$   $\chi^2/\text{NDF}$ : 4159.5/32

All:  $0.156 \pm 0.002$   $\chi^2/\text{NDF}$ : 10340.5/62



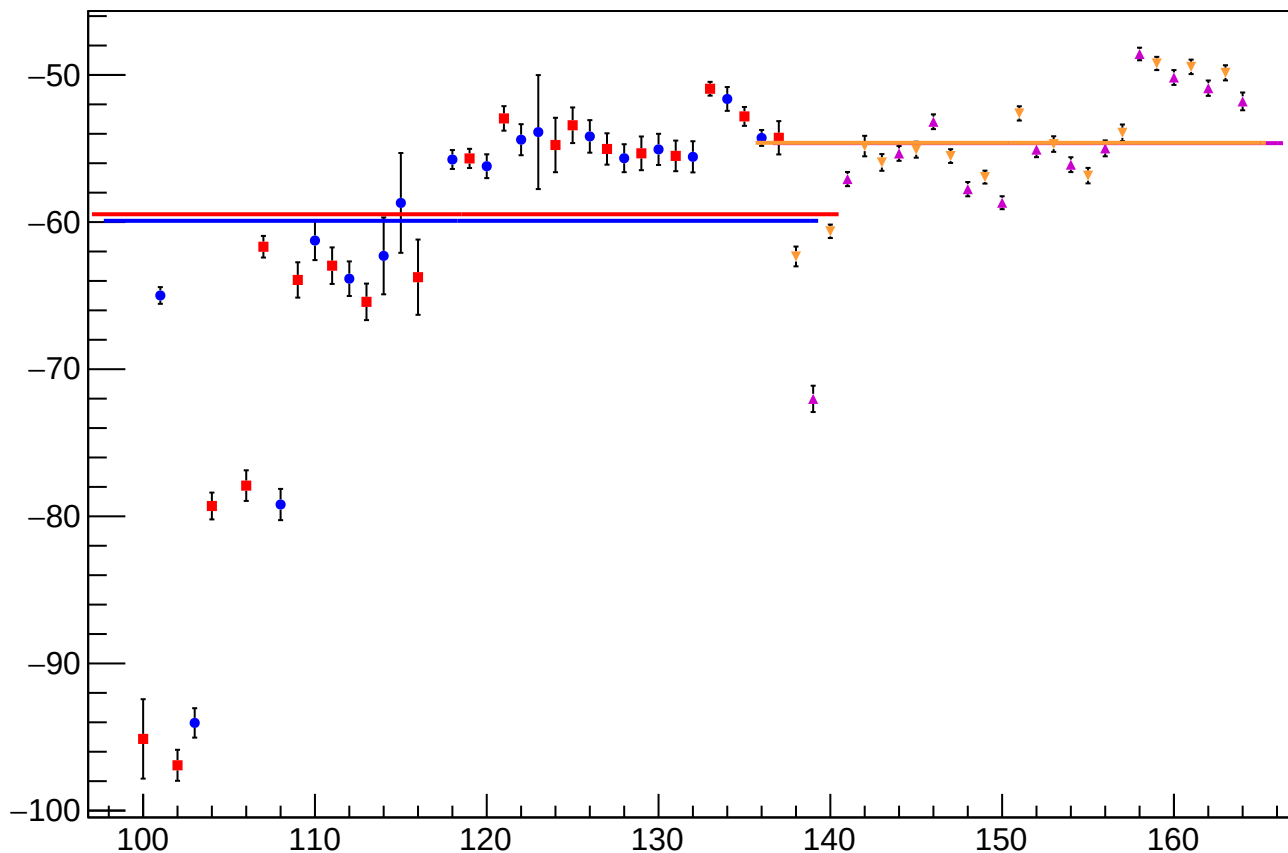
reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -1.088 $\pm$ 0.192  $\chi^2$ /NDF:321.4/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -1.111 $\pm$ 0.190  $\chi^2$ /NDF:465.0/12

Left: -1.099 $\pm$ 0.135  $\chi^2$ /NDF: 786.4/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -1.111 $\pm$ 0.190  $\chi^2$ /NDF:465.0/12  
 Out: -1.088 $\pm$ 0.192  $\chi^2$ /NDF:321.4/13  
 All: -1.099 $\pm$ 0.135  $\chi^2$ /NDF: 786.4/26

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:  $-54.612 \pm 0.138$   $\chi^2/\text{NDF}$ : 718.3/13

Right Out:  $-59.468 \pm 0.212$   $\chi^2/\text{NDF}$ : 2912.7/18

Left In:  $-54.635 \pm 0.142$   $\chi^2/\text{NDF}$ : 899.7/12

Left:  $-54.623 \pm 0.099$   $\chi^2/\text{NDF}$ : 1618.0/26

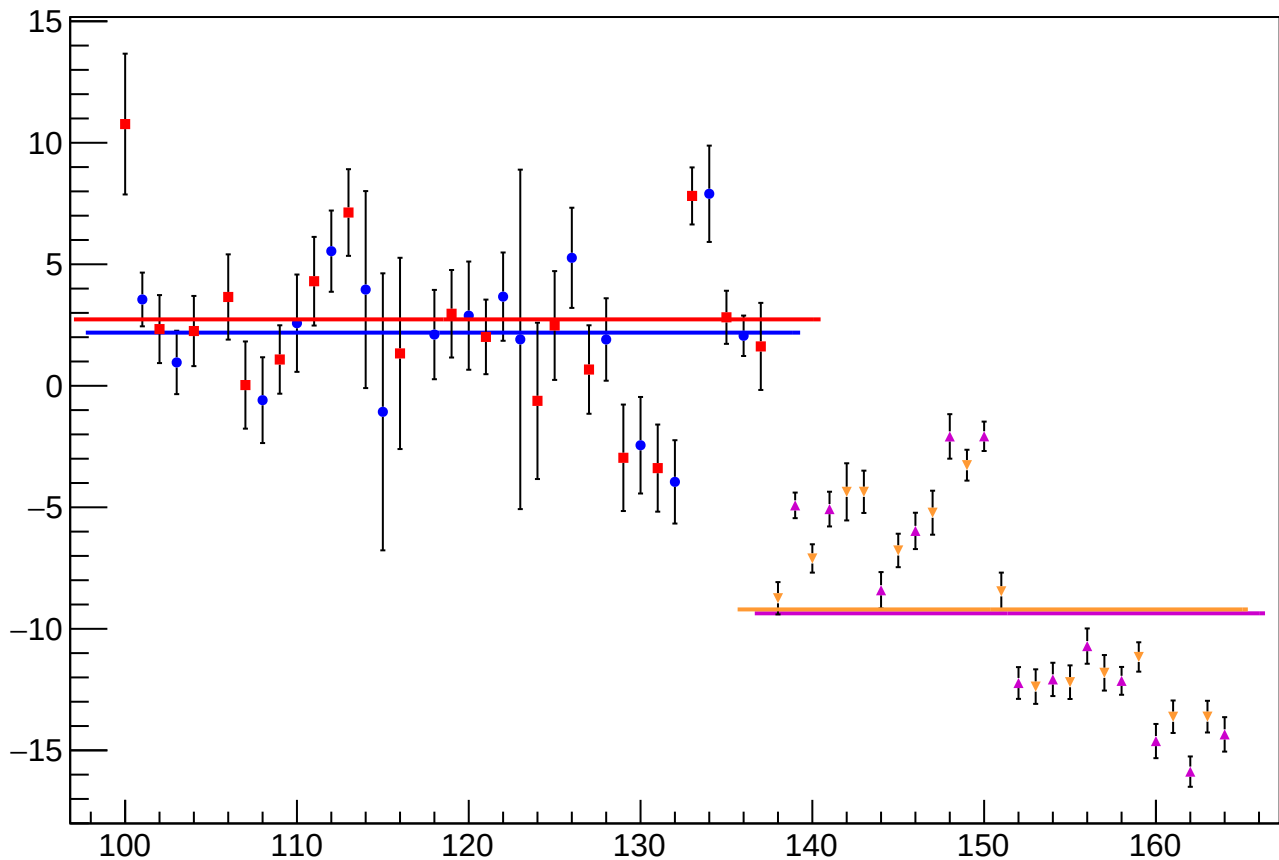
Right:  $-59.680 \pm 0.154$   $\chi^2/\text{NDF}$ : 4894.3/35

In:  $-56.155 \pm 0.120$   $\chi^2/\text{NDF}$ : 3278.3/29

Out:  $-56.053 \pm 0.116$   $\chi^2/\text{NDF}$ : 3999.7/32

All:  $-56.103 \pm 0.083$   $\chi^2/\text{NDF}$ : 7278.4/62

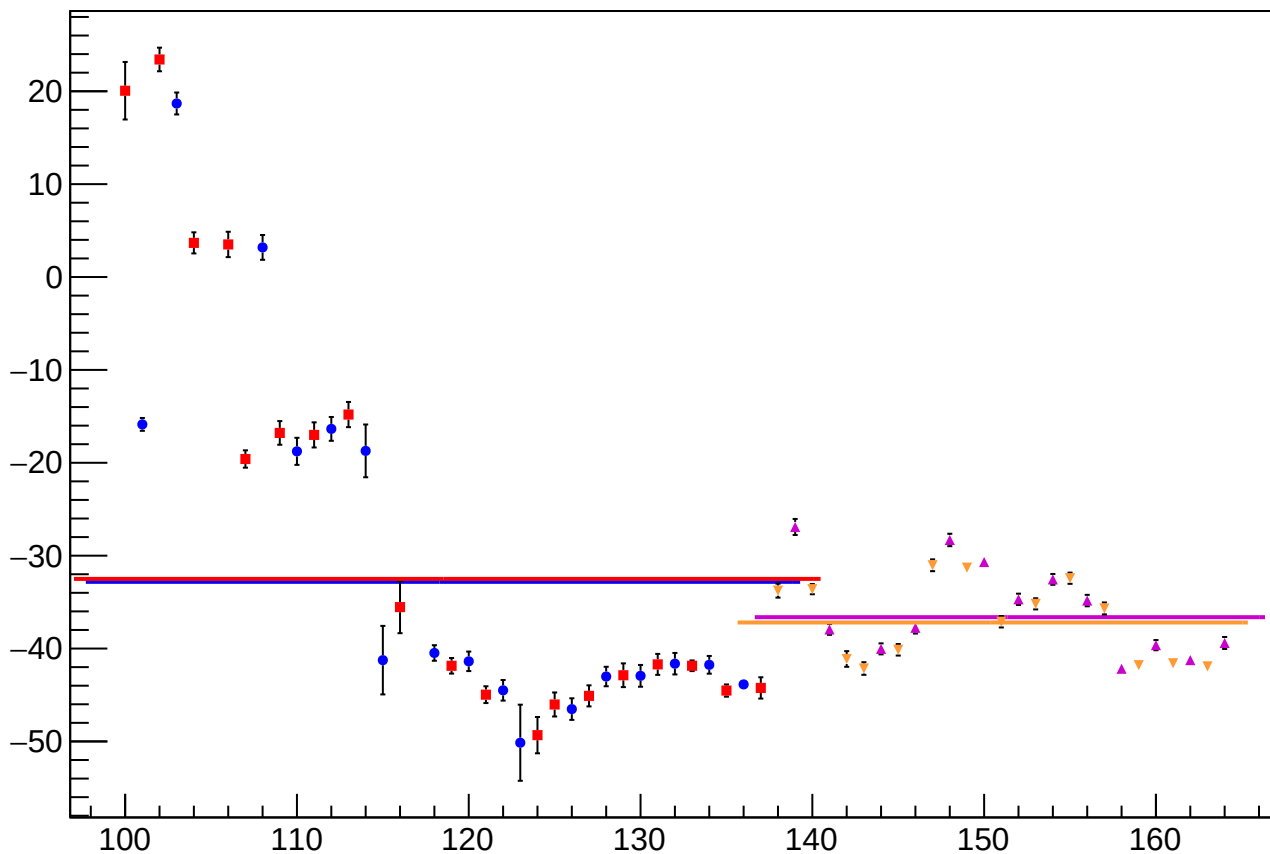
reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $2.188 \pm 0.404$   $\chi^2/\text{NDF}: 39.1/16$   
 Left Out:  $-9.202 \pm 0.189$   $\chi^2/\text{NDF}: 332.6/13$   
 Right Out:  $2.733 \pm 0.388$   $\chi^2/\text{NDF}: 58.9/18$   
 Left In:  $-9.362 \pm 0.186$   $\chi^2/\text{NDF}: 613.7/12$

Left:  $-9.283 \pm 0.132$   $\chi^2/\text{NDF}: 946.6/26$   
 Right:  $2.472 \pm 0.280$   $\chi^2/\text{NDF}: 98.9/35$   
 In:  $-7.352 \pm 0.169$   $\chi^2/\text{NDF}: 1327.6/29$   
 Out:  $-6.911 \pm 0.170$   $\chi^2/\text{NDF}: 1157.4/32$   
 All:  $-7.133 \pm 0.120$   $\chi^2/\text{NDF}: 2488.4/62$

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:  $-37.195 \pm 0.159$   $\chi^2/\text{NDF}: 698.7/13$

Right Out:  $-32.501 \pm 0.244$   $\chi^2/\text{NDF}: 6037.9/18$

Left In:  $-36.622 \pm 0.162$   $\chi^2/\text{NDF}: 798.3/12$

Left:  $-36.913 \pm 0.114$   $\chi^2/\text{NDF}: 1503.3/26$

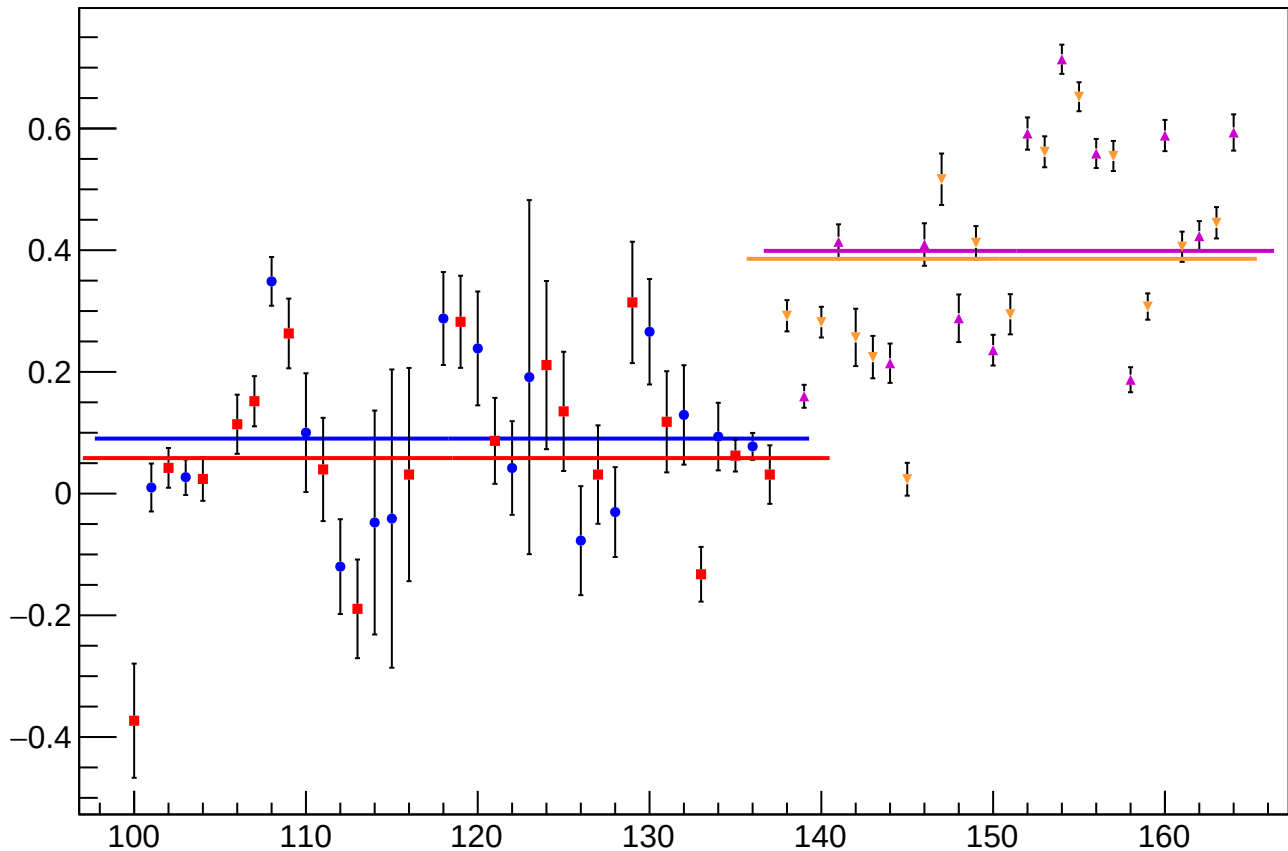
Right:  $-32.652 \pm 0.176$   $\chi^2/\text{NDF}: 10705.2/35$

In:  $-35.524 \pm 0.136$   $\chi^2/\text{NDF}: 5624.6/29$

Out:  $-35.790 \pm 0.133$   $\chi^2/\text{NDF}: 6995.9/32$

All:  $-35.660 \pm 0.095$   $\chi^2/\text{NDF}: 12622.4/62$

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: 0.386 $\pm$ 0.007  $\chi^2$ /NDF: 496.3/13

Right Out: 0.058 $\pm$ 0.012  $\chi^2$ /NDF: 87.3/18

Left In: 0.399 $\pm$ 0.007  $\chi^2$ /NDF: 717.2/12

Left: 0.393 $\pm$ 0.005  $\chi^2$ /NDF: 1215.1/26

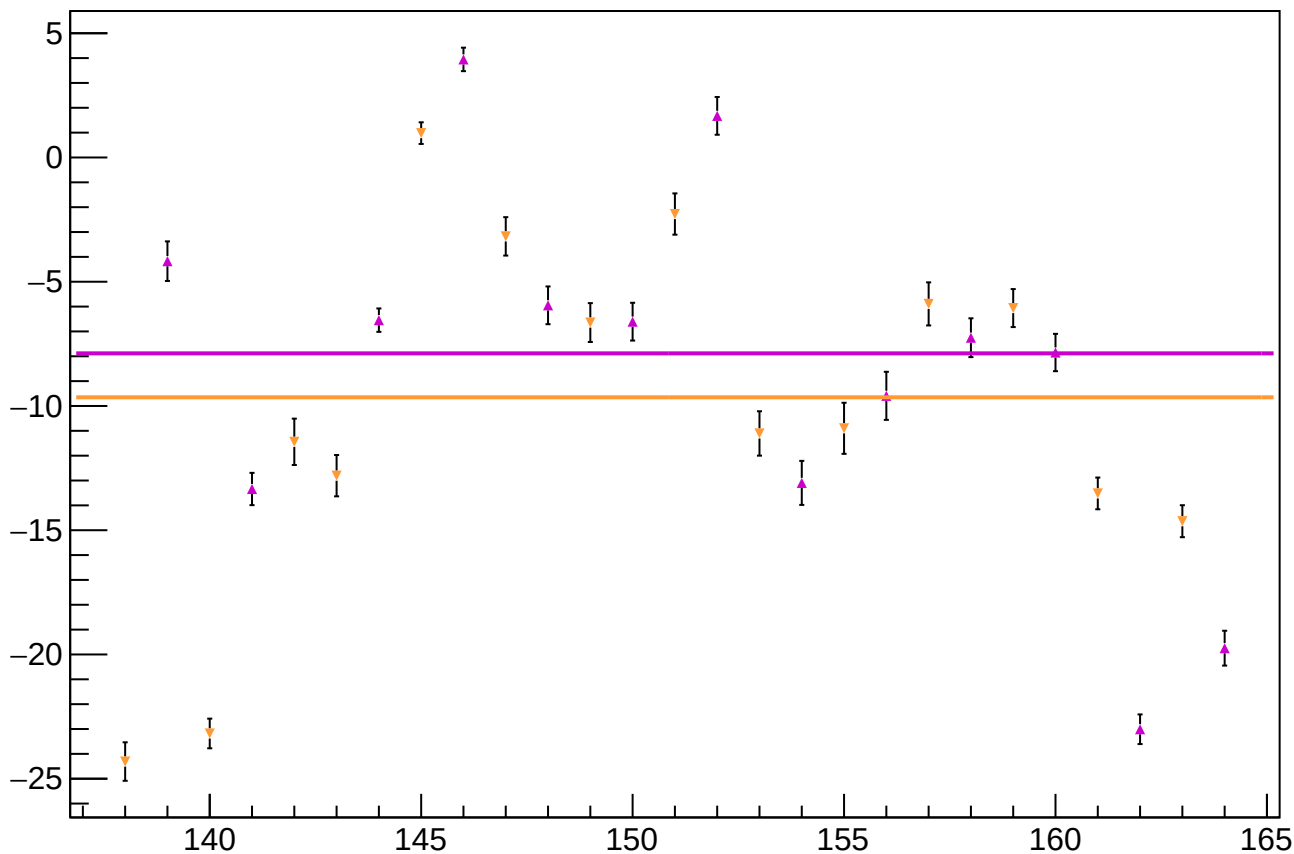
Right: 0.074 $\pm$ 0.009  $\chi^2$ /NDF: 169.9/35

In: 0.325 $\pm$ 0.006  $\chi^2$ /NDF: 1243.5/29

Out: 0.299 $\pm$ 0.006  $\chi^2$ /NDF: 1117.7/32

All: 0.312 $\pm$ 0.004  $\chi^2$ /NDF: 2369.9/62

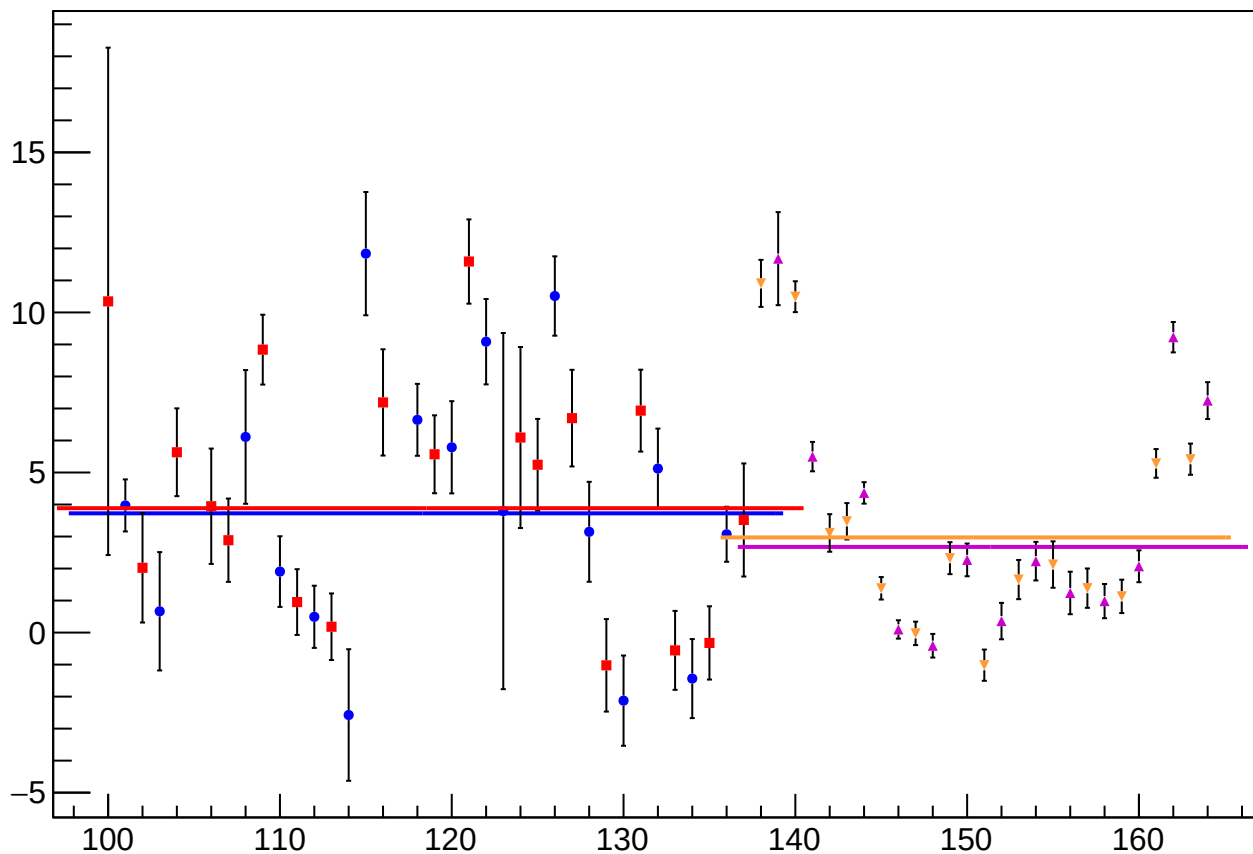
reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-9.651 \pm 0.192$   $\chi^2/\text{NDF}$ : 1790.3/13  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-7.882 \pm 0.187$   $\chi^2/\text{NDF}$ : 1862.1/12

Left:  $-8.743 \pm 0.134$   $\chi^2/\text{NDF}$ : 3696.1/26  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $-7.882 \pm 0.187$   $\chi^2/\text{NDF}$ : 1862.1/12  
 Out:  $-9.651 \pm 0.192$   $\chi^2/\text{NDF}$ : 1790.3/13  
 All:  $-8.743 \pm 0.134$   $\chi^2/\text{NDF}$ : 3696.1/26

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:  $2.973 \pm 0.134$   $\chi^2/\text{NDF}: 593.6/13$

Right Out:  $3.885 \pm 0.316$   $\chi^2/\text{NDF}: 134.4/18$

Left In:  $2.676 \pm 0.129$   $\chi^2/\text{NDF}: 539.5/12$

Left:  $2.818 \pm 0.093$   $\chi^2/\text{NDF}: 1135.6/26$

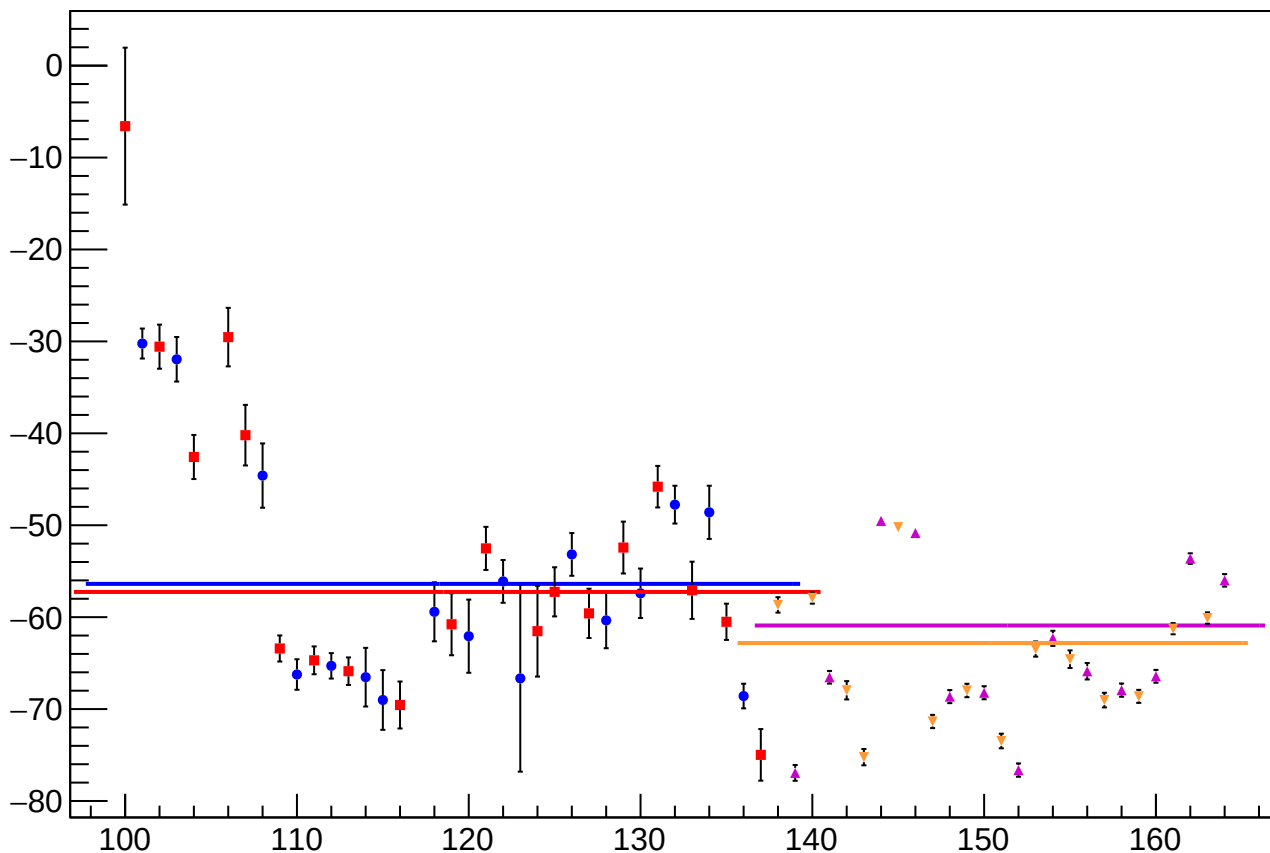
Right:  $3.803 \pm 0.221$   $\chi^2/\text{NDF}: 271.3/35$

In:  $2.831 \pm 0.119$   $\chi^2/\text{NDF}: 686.1/29$

Out:  $3.111 \pm 0.123$   $\chi^2/\text{NDF}: 735.0/32$

All:  $2.966 \pm 0.085$   $\chi^2/\text{NDF}: 1423.7/62$

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:  $-62.816 \pm 0.190$   $\chi^2/\text{NDF}$ : 1571.8/13

Right Out:  $-57.258 \pm 0.536$   $\chi^2/\text{NDF}$ : 476.1/18

Left In:  $-60.908 \pm 0.183$   $\chi^2/\text{NDF}$ : 2509.1/12

Left:  $-61.823 \pm 0.132$   $\chi^2/\text{NDF}$ : 4133.2/26

Right:  $-56.823 \pm 0.381$   $\chi^2/\text{NDF}$ : 1064.8/35

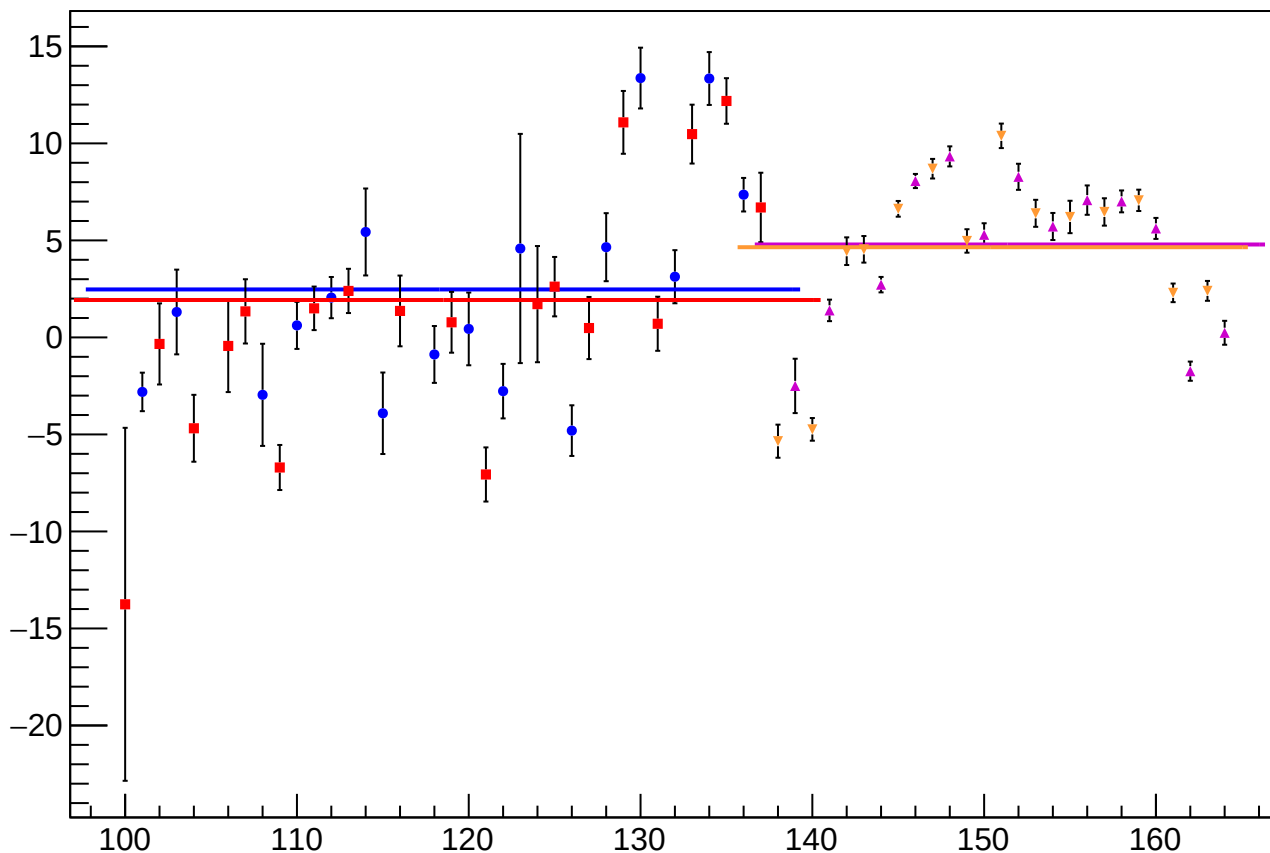
In:  $-60.446 \pm 0.173$   $\chi^2/\text{NDF}$ : 3159.2/29

Out:  $-62.193 \pm 0.179$   $\chi^2/\text{NDF}$ : 2143.4/32

All:  $-61.288 \pm 0.125$   $\chi^2/\text{NDF}$ : 5351.7/62



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:  $4.649 \pm 0.157$   $\chi^2/\text{NDF}$ : 645.8/13

Right Out:  $1.928 \pm 0.355$   $\chi^2/\text{NDF}$ : 266.6/18

Left In:  $4.789 \pm 0.152$   $\chi^2/\text{NDF}$ : 534.5/12

Left:  $4.721 \pm 0.109$   $\chi^2/\text{NDF}$ : 1180.7/26

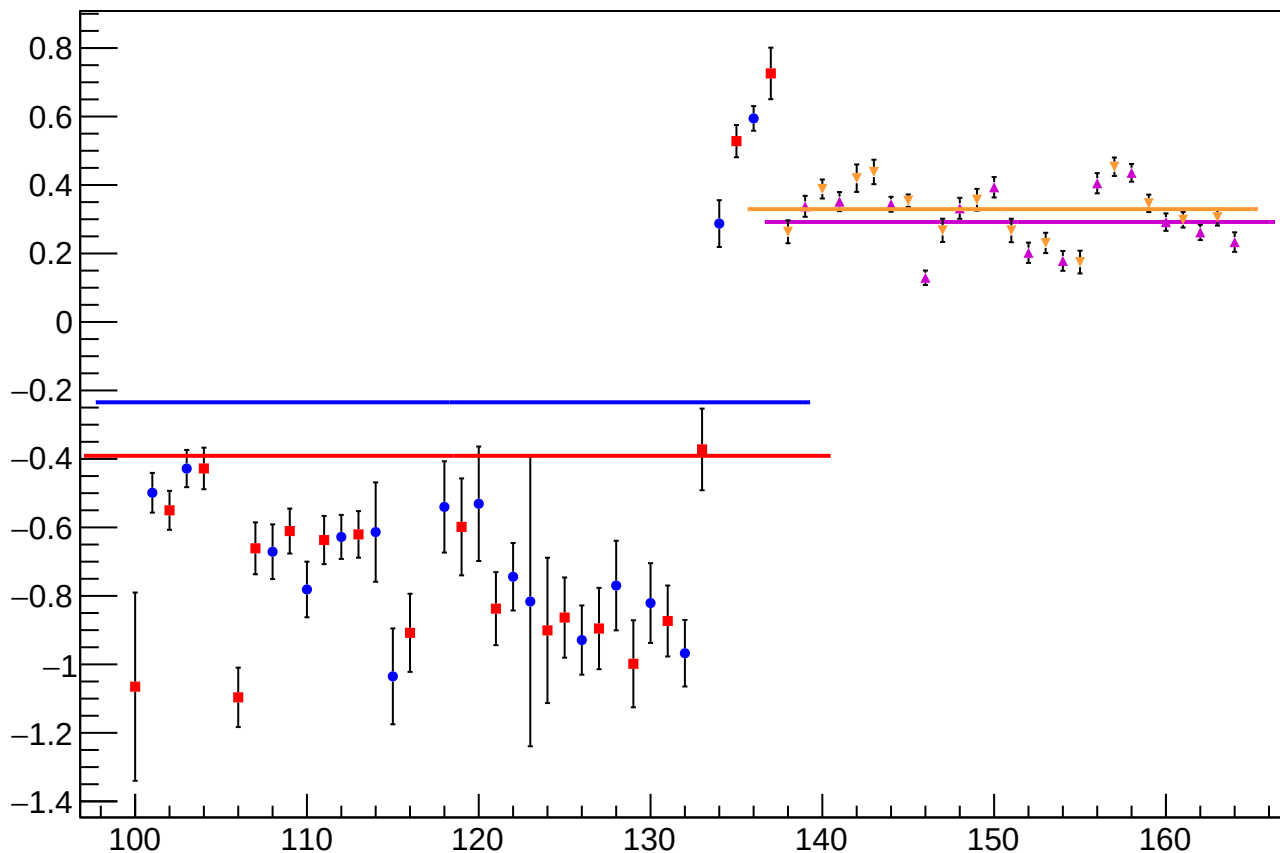
Right:  $2.208 \pm 0.248$   $\chi^2/\text{NDF}$ : 511.4/35

In:  $4.415 \pm 0.139$   $\chi^2/\text{NDF}$ : 815.7/29

Out:  $4.204 \pm 0.143$   $\chi^2/\text{NDF}$ : 961.6/32

All:  $4.313 \pm 0.100$   $\chi^2/\text{NDF}$ : 1778.4/62

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:  $0.330 \pm 0.007$   $\chi^2/\text{NDF}$ : 89.1/13

Right Out:  $-0.391 \pm 0.019$   $\chi^2/\text{NDF}$ : 853.3/18

Left In:  $0.292 \pm 0.007$   $\chi^2/\text{NDF}$ : 161.2/12

Left:  $0.310 \pm 0.005$   $\chi^2/\text{NDF}$ : 263.2/26

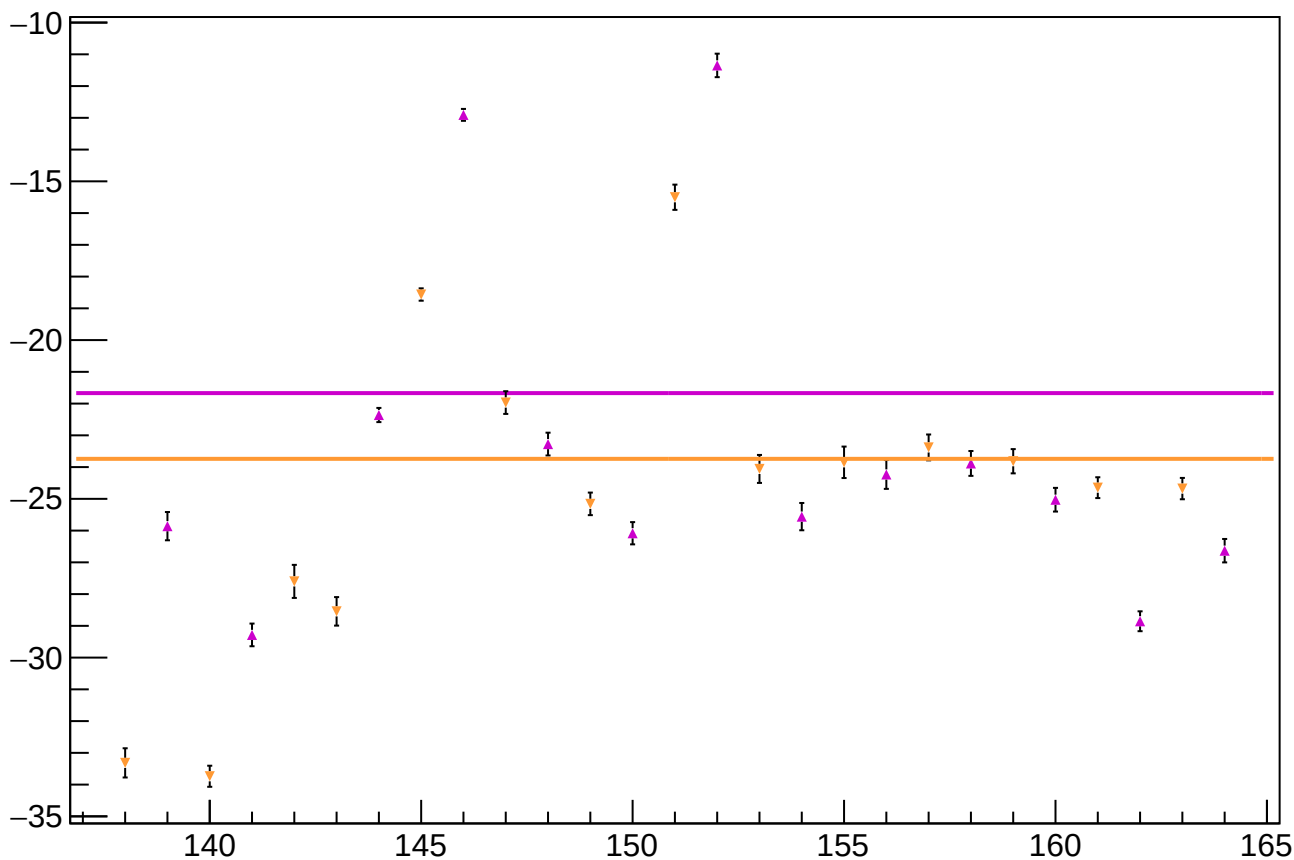
Right:  $-0.312 \pm 0.013$   $\chi^2/\text{NDF}$ : 1845.8/35

In:  $0.223 \pm 0.007$   $\chi^2/\text{NDF}$ : 1796.3/29

Out:  $0.232 \pm 0.007$   $\chi^2/\text{NDF}$ : 2192.0/32

All:  $0.228 \pm 0.005$   $\chi^2/\text{NDF}$ : 3989.2/62

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



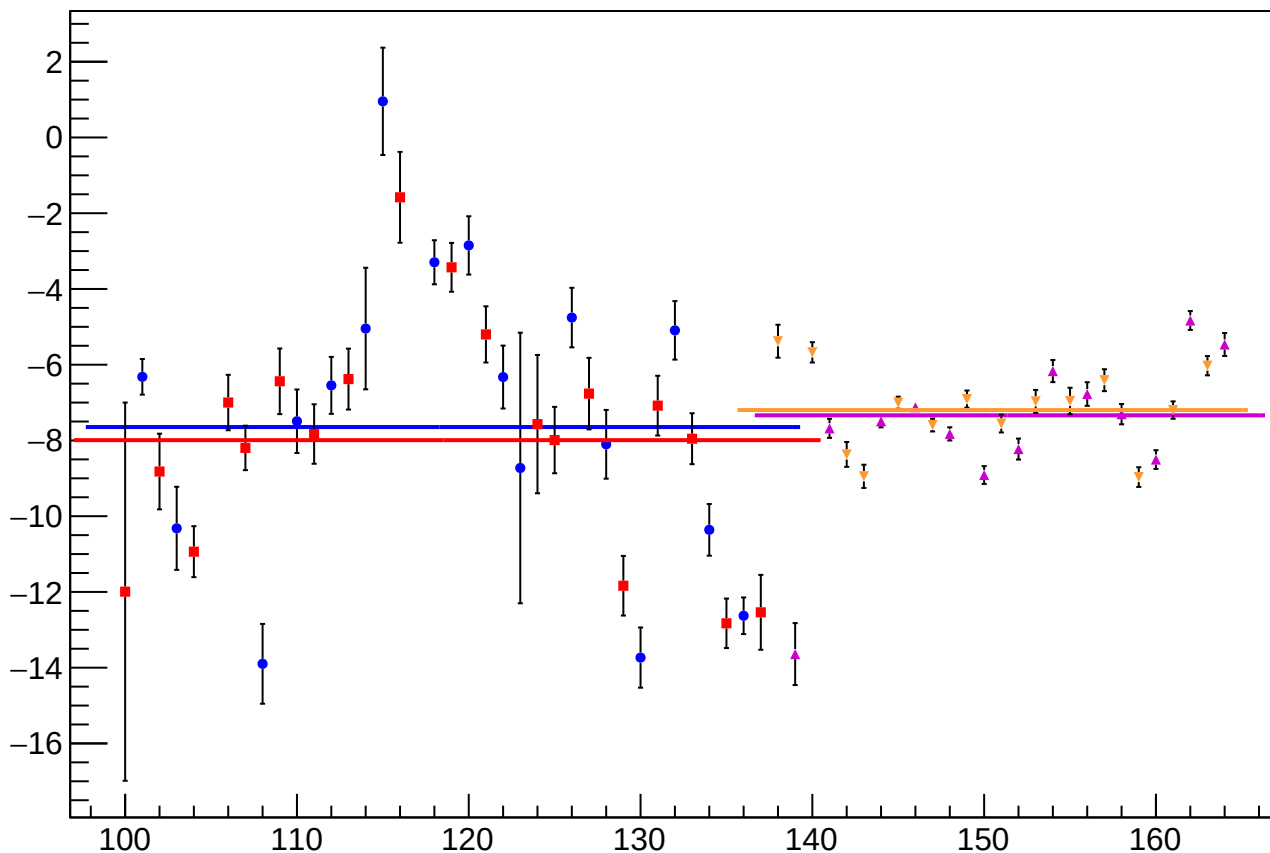
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-23.740 \pm 0.095$   $\chi^2/\text{NDF}: 2701.9/13$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-21.670 \pm 0.089$   $\chi^2/\text{NDF}: 4631.3/12$

Left:  $-22.639 \pm 0.065$   $\chi^2/\text{NDF}: 7586.4/26$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-21.670 \pm 0.089$   $\chi^2/\text{NDF}: 4631.3/12$   
 Out:  $-23.740 \pm 0.095$   $\chi^2/\text{NDF}: 2701.9/13$

All:  $-22.639 \pm 0.065$   $\chi^2/\text{NDF}: 7586.4/26$

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.646 \pm 0.186$   $\chi^2/\text{NDF}$ : 393.6/16

Left Out:  $-7.197 \pm 0.066$   $\chi^2/\text{NDF}$ : 182.0/13

Right Out:  $-7.992 \pm 0.186$   $\chi^2/\text{NDF}$ : 225.5/18

Left In:  $-7.336 \pm 0.061$   $\chi^2/\text{NDF}$ : 309.8/12

Left:  $-7.272 \pm 0.045$   $\chi^2/\text{NDF}$ : 494.2/26

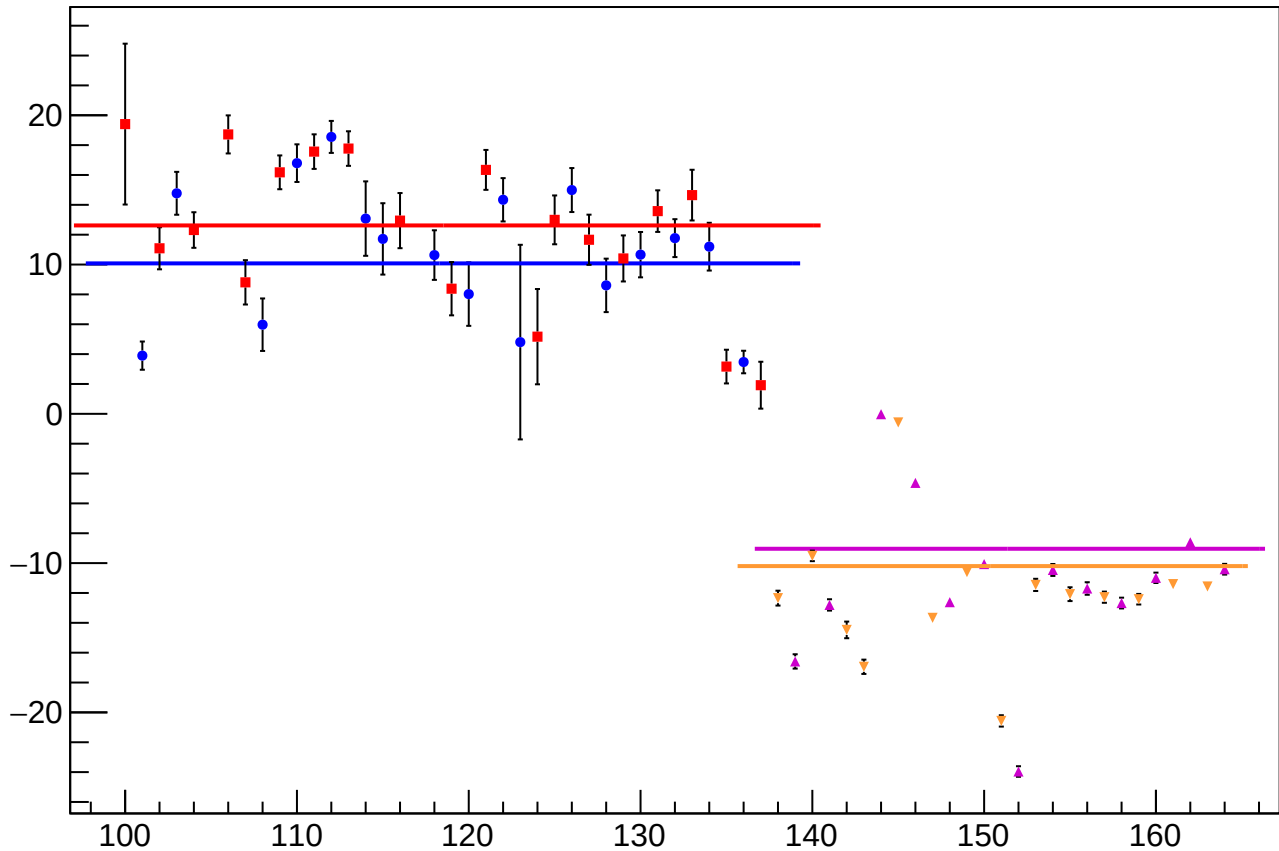
Right:  $-7.819 \pm 0.131$   $\chi^2/\text{NDF}$ : 620.8/35

In:  $-7.366 \pm 0.058$   $\chi^2/\text{NDF}$ : 705.9/29

Out:  $-7.286 \pm 0.062$   $\chi^2/\text{NDF}$ : 423.7/32

All:  $-7.329 \pm 0.042$   $\chi^2/\text{NDF}$ : 1130.6/62

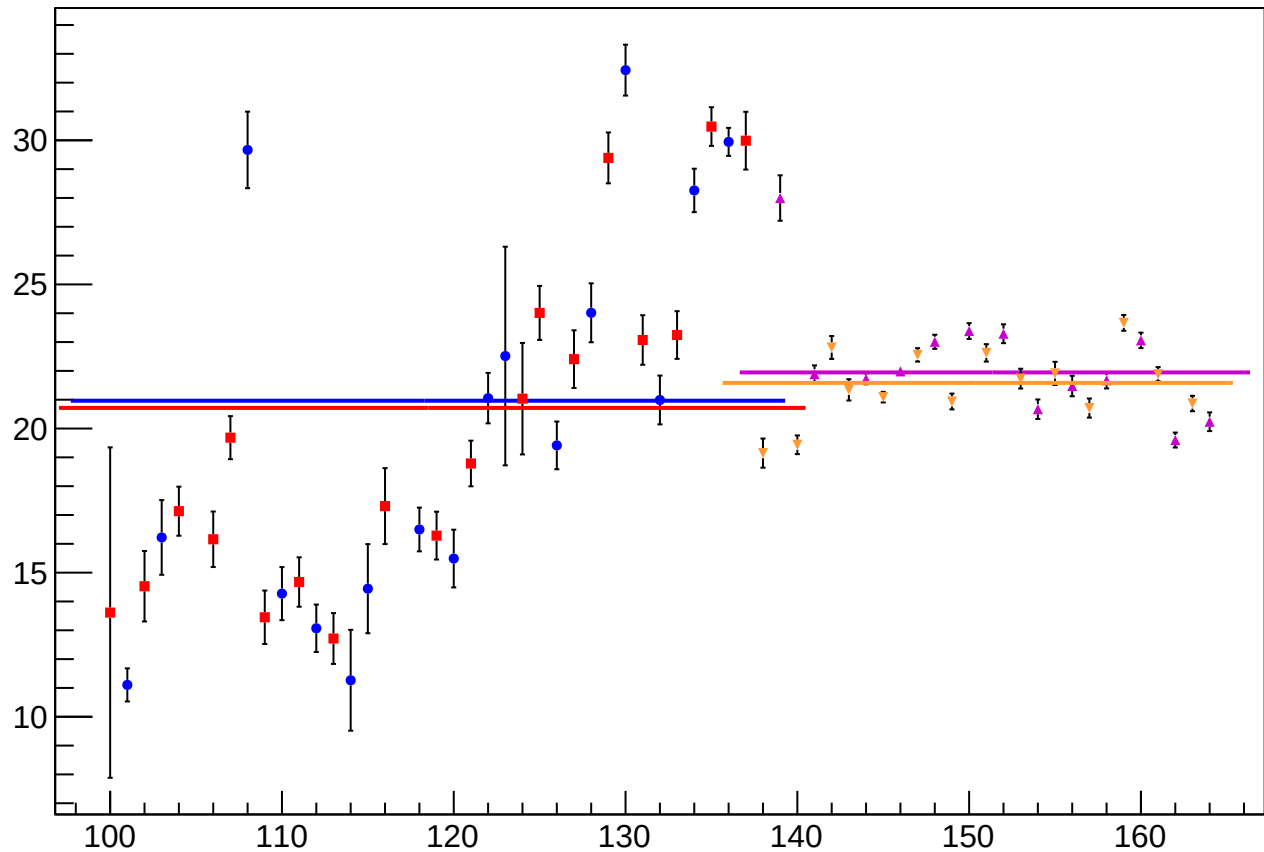
reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $10.077 \pm 0.337$   $\chi^2/\text{NDF}: 252.8/16$   
 Left Out:  $-10.200 \pm 0.094$   $\chi^2/\text{NDF}: 3441.2/13$   
 Right Out:  $12.620 \pm 0.332$   $\chi^2/\text{NDF}: 220.0/18$   
 Left In:  $-9.039 \pm 0.087$   $\chi^2/\text{NDF}: 4463.0/12$

Left:  $-9.575 \pm 0.064$   $\chi^2/\text{NDF}: 7986.5/26$   
 Right:  $11.365 \pm 0.237$   $\chi^2/\text{NDF}: 501.6/35$   
 In:  $-7.844 \pm 0.084$   $\chi^2/\text{NDF}: 7736.4/29$   
 Out:  $-8.516 \pm 0.090$   $\chi^2/\text{NDF}: 8025.4/32$   
 All:  $-8.156 \pm 0.062$   $\chi^2/\text{NDF}: 15791.3/62$

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: 21.584 $\pm$ 0.077  $\chi^2$ /NDF:192.8/13

Right Out: 20.716 $\pm$ 0.213  $\chi^2$ /NDF: 729.9/18

Left In: 21.947 $\pm$ 0.072  $\chi^2$ /NDF:267.4/12

Left: 21.779 $\pm$ 0.053  $\chi^2$ /NDF: 472.0/26

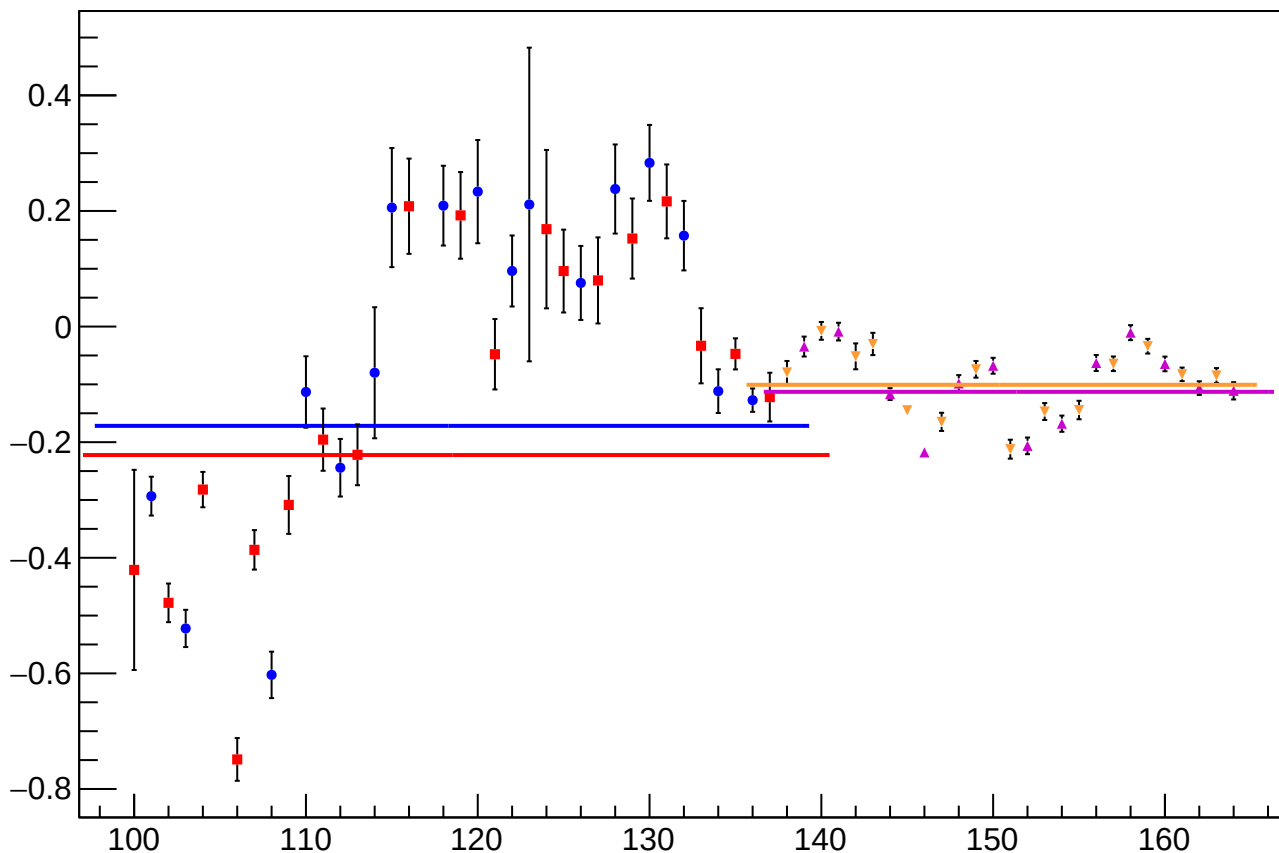
Right: 20.842 $\pm$ 0.149  $\chi^2$ /NDF: 1956.1/35

In: 21.843 $\pm$ 0.068  $\chi^2$ /NDF:1512.5/29

Out: 21.482 $\pm$ 0.073  $\chi^2$ /NDF:937.4/32

All: 21.675 $\pm$ 0.050  $\chi^2$ /NDF: 2463.1/62

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:  $-0.101 \pm 0.004$   $\chi^2/\text{NDF}$ : 209.3/13

Right Out:  $-0.222 \pm 0.011$   $\chi^2/\text{NDF}$ : 536.1/18

Left In:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}$ : 380.3/12

Left:  $-0.107 \pm 0.003$   $\chi^2/\text{NDF}$ : 595.3/26

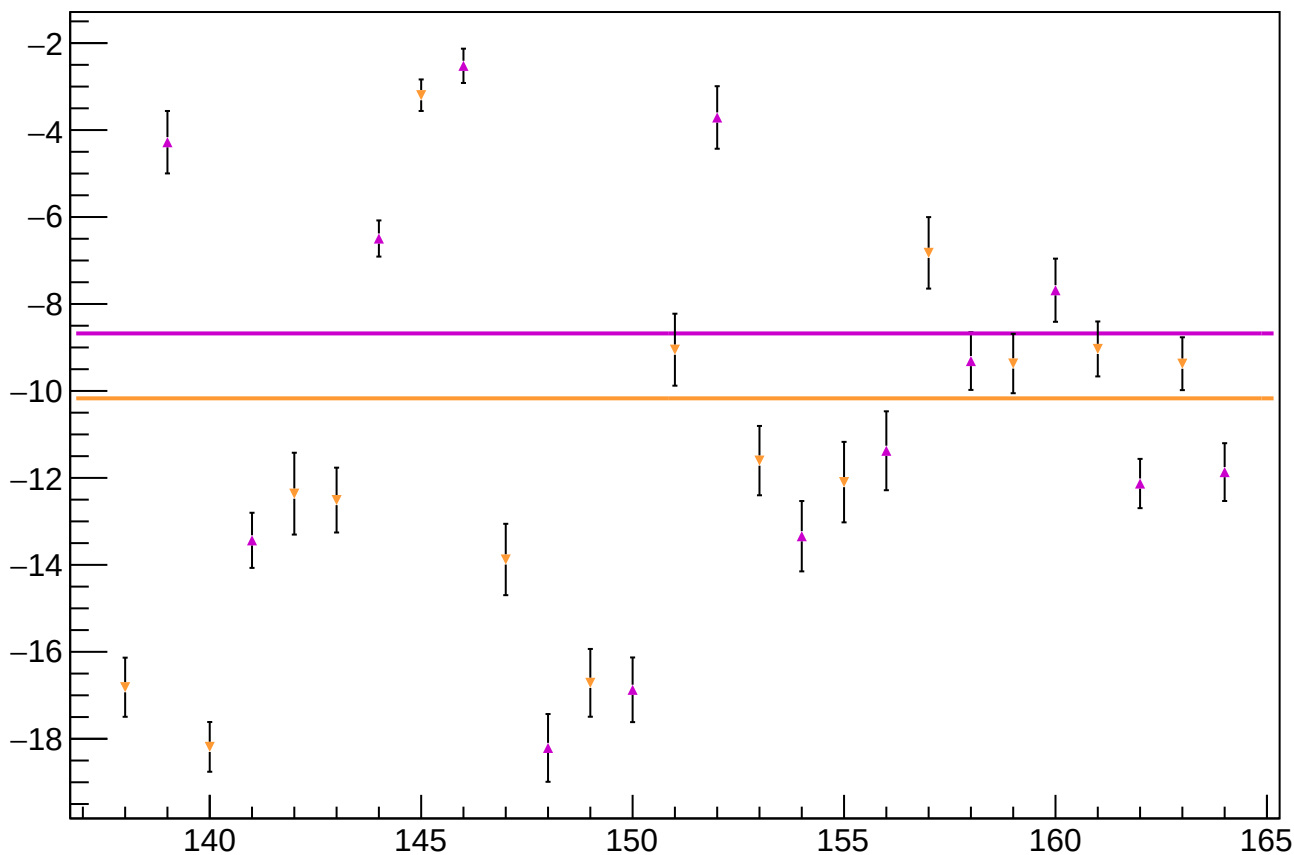
Right:  $-0.198 \pm 0.008$   $\chi^2/\text{NDF}$ : 1010.7/35

In:  $-0.118 \pm 0.003$   $\chi^2/\text{NDF}$ : 869.7/29

Out:  $-0.113 \pm 0.003$   $\chi^2/\text{NDF}$ : 856.2/32

All:  $-0.116 \pm 0.002$   $\chi^2/\text{NDF}$ : 1727.0/62

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

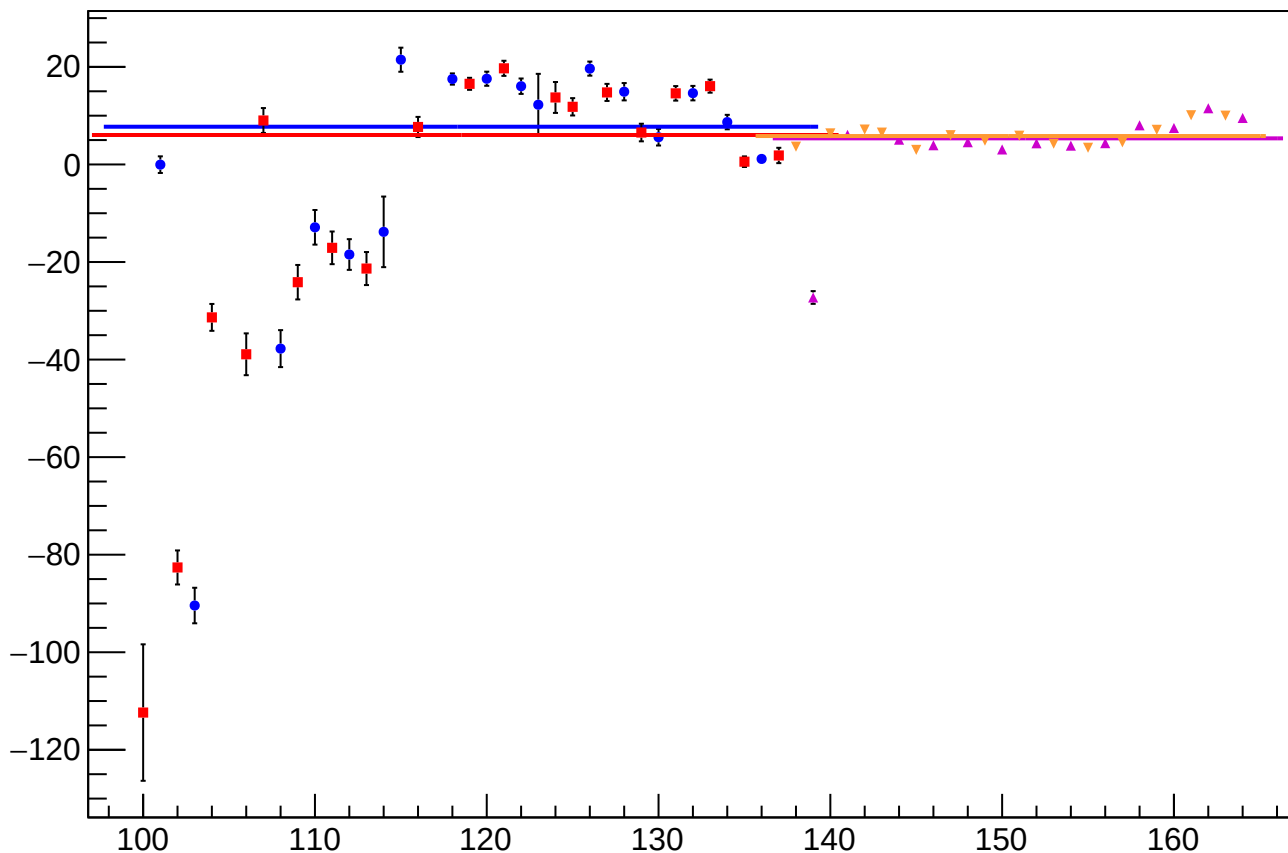


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -10.170 $\pm$ 0.177  $\chi^2$ /NDF:799.7/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -8.677 $\pm$ 0.171  $\chi^2$ /NDF:788.6/12

Left: -9.397 $\pm$ 0.123  $\chi^2$ /NDF: 1625.2/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -8.677 $\pm$ 0.171  $\chi^2$ /NDF:788.6/12  
 Out: -10.170 $\pm$ 0.177  $\chi^2$ /NDF:799.7/13  
 All: -9.397 $\pm$ 0.123  $\chi^2$ /NDF: 1625.2/26



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: 5.827 $\pm$ 0.125  $\chi^2$ /NDF:330.0/13

Right Out: 6.040 $\pm$ 0.434  $\chi^2$ /NDF: 1512.1/18

Left In: 5.351 $\pm$ 0.119  $\chi^2$ /NDF:995.8/12

Left: 5.577 $\pm$ 0.086  $\chi^2$ /NDF: 1333.3/26

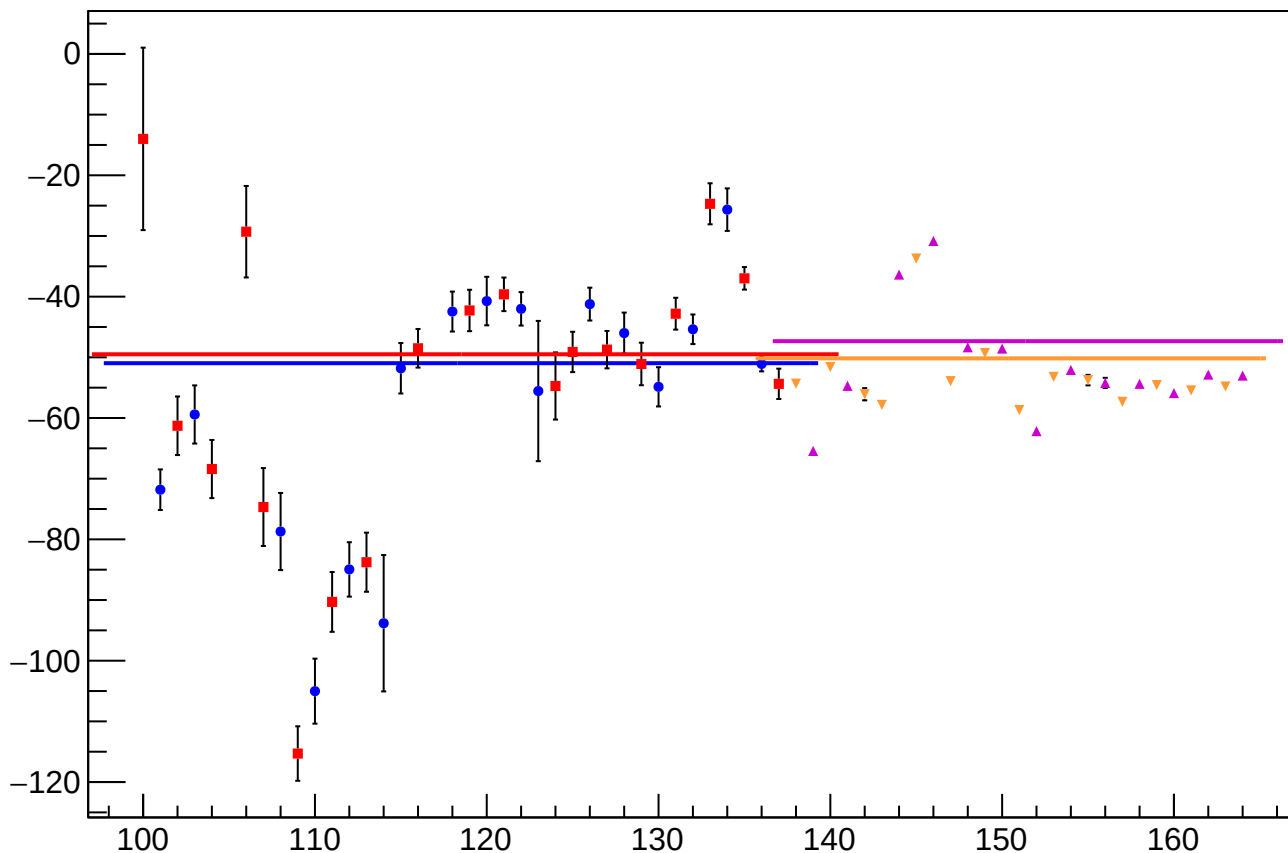
Right: 6.952 $\pm$ 0.295  $\chi^2$ /NDF: 2878.8/35

In: 5.543 $\pm$ 0.114  $\chi^2$ /NDF:2386.5/29

Out: 5.844 $\pm$ 0.120  $\chi^2$ /NDF:1842.3/32

All: 5.686 $\pm$ 0.083  $\chi^2$ /NDF: 4232.1/62

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:  $-50.172 \pm 0.177$   $\chi^2/\text{NDF}$ : 2419.2/13

Right Out:  $-49.497 \pm 0.797$   $\chi^2/\text{NDF}$ : 510.4/18

Left In:  $-47.336 \pm 0.167$   $\chi^2/\text{NDF}$ : 4205.5/12

Left:  $-48.677 \pm 0.122$   $\chi^2/\text{NDF}$ : 6760.3/26

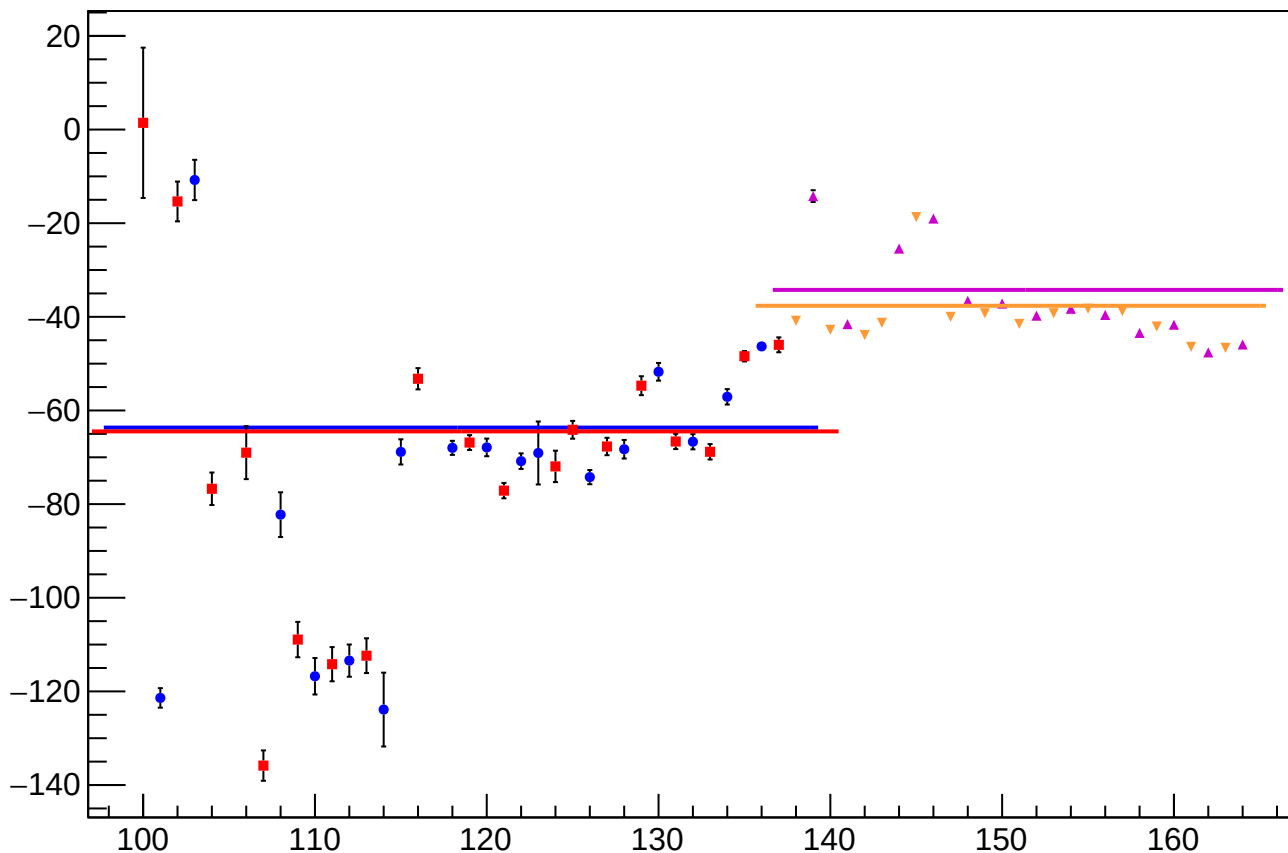
Right:  $-50.288 \pm 0.541$   $\chi^2/\text{NDF}$ : 844.9/35

In:  $-47.514 \pm 0.163$   $\chi^2/\text{NDF}$ : 4561.2/29

Out:  $-50.140 \pm 0.173$   $\chi^2/\text{NDF}$ : 2930.3/32

All:  $-48.755 \pm 0.119$   $\chi^2/\text{NDF}$ : 7613.6/62

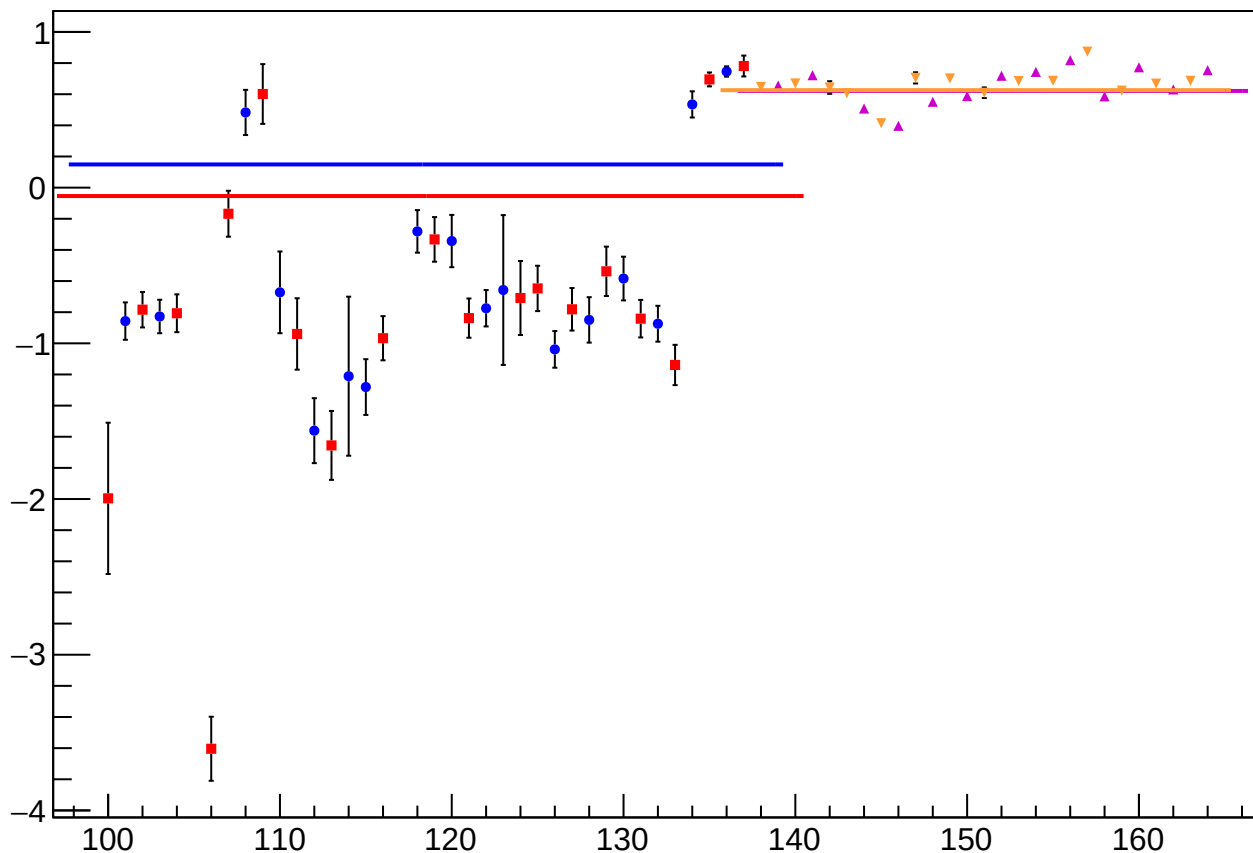
reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -63.656 $\pm$ 0.445  $\chi^2/\text{NDF}$ : 2014.7/16  
 Left Out: -37.637 $\pm$ 0.146  $\chi^2/\text{NDF}$ : 4271.9/13  
 Right Out: -64.470 $\pm$ 0.483  $\chi^2/\text{NDF}$ : 1606.8/18  
 Left In: -34.245 $\pm$ 0.140  $\chi^2/\text{NDF}$ : 5396.6/12

Left: -35.865 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 9949.3/26  
 Right: -64.030 $\pm$ 0.327  $\chi^2/\text{NDF}$ : 3623.1/35  
 In: -36.886 $\pm$ 0.133  $\chi^2/\text{NDF}$ : 11380.7/29  
 Out: -39.895 $\pm$ 0.140  $\chi^2/\text{NDF}$ : 8711.1/32  
 All: -38.319 $\pm$ 0.097  $\chi^2/\text{NDF}$ : 20333.9/62

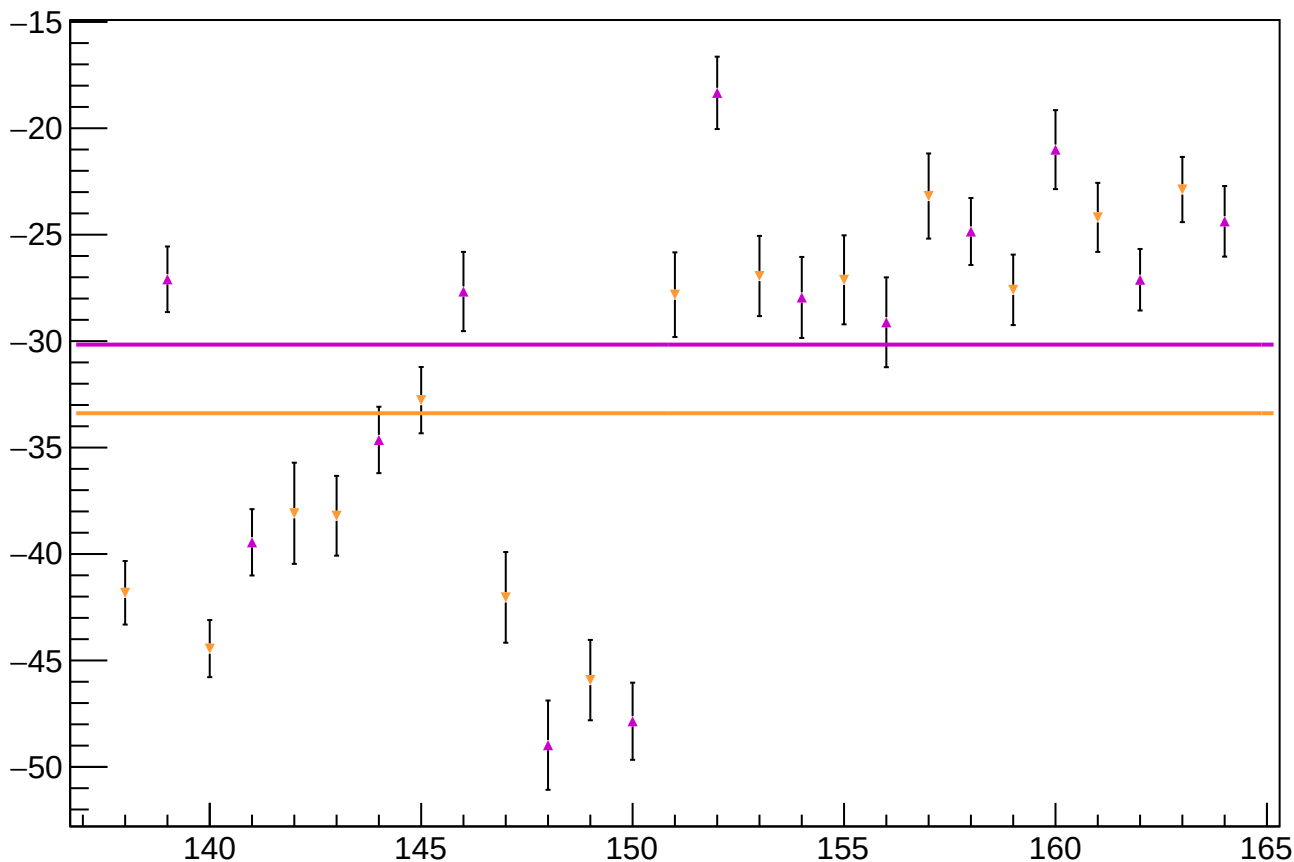
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.149 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.9/16  
 Left Out:  $0.626 \pm 0.007$   $\chi^2/\text{NDF}$ : 322.9/13  
 Right Out:  $-0.054 \pm 0.026$   $\chi^2/\text{NDF}$ : 1167.9/18  
 Left In:  $0.621 \pm 0.007$   $\chi^2/\text{NDF}$ : 362.8/12

Left:  $0.623 \pm 0.005$   $\chi^2/\text{NDF}$ : 685.9/26  
 Right:  $0.056 \pm 0.018$   $\chi^2/\text{NDF}$ : 2190.5/35  
 In:  $0.586 \pm 0.006$   $\chi^2/\text{NDF}$ : 1712.0/29  
 Out:  $0.582 \pm 0.007$   $\chi^2/\text{NDF}$ : 2120.5/32  
 All:  $0.584 \pm 0.005$   $\chi^2/\text{NDF}$ : 3832.7/62

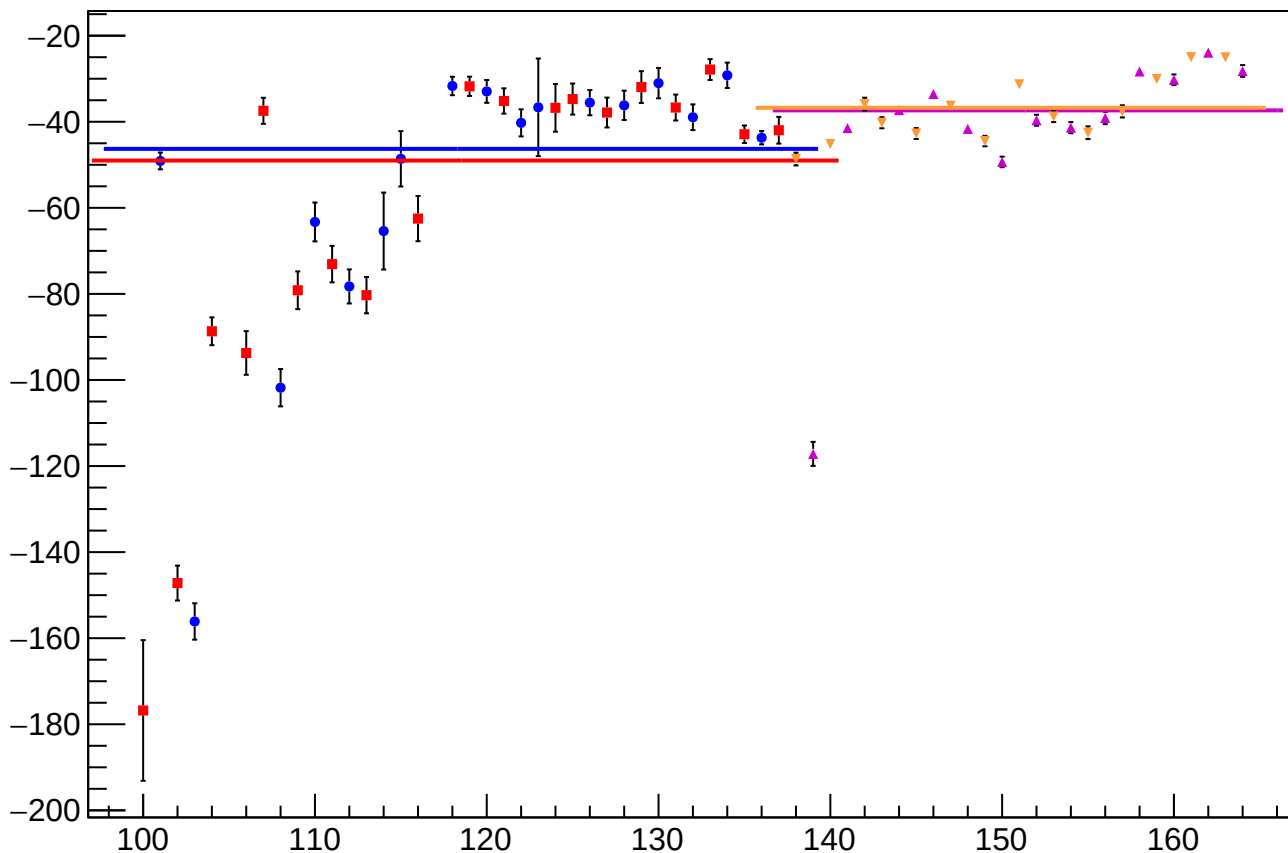
reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -33.387+/-0.468  $\chi^2/\text{NDF}$ :317.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -30.164+/-0.474  $\chi^2/\text{NDF}$ :327.8/12

Left: -31.796+/-0.333  $\chi^2/\text{NDF}$ : 668.5/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -30.164+/-0.474  $\chi^2/\text{NDF}$ :327.8/12  
 Out: -33.387+/-0.468  $\chi^2/\text{NDF}$ :317.3/13  
 All: -31.796+/-0.333  $\chi^2/\text{NDF}$ : 668.5/26

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:  $-36.754 \pm 0.330$   $\chi^2/\text{NDF}: 477.0/13$

Right Out:  $-49.008 \pm 0.764$   $\chi^2/\text{NDF}: 1271.7/18$

Left In:  $-37.357 \pm 0.341$   $\chi^2/\text{NDF}: 1251.8/12$

Left:  $-37.046 \pm 0.237$   $\chi^2/\text{NDF}: 1730.4/26$

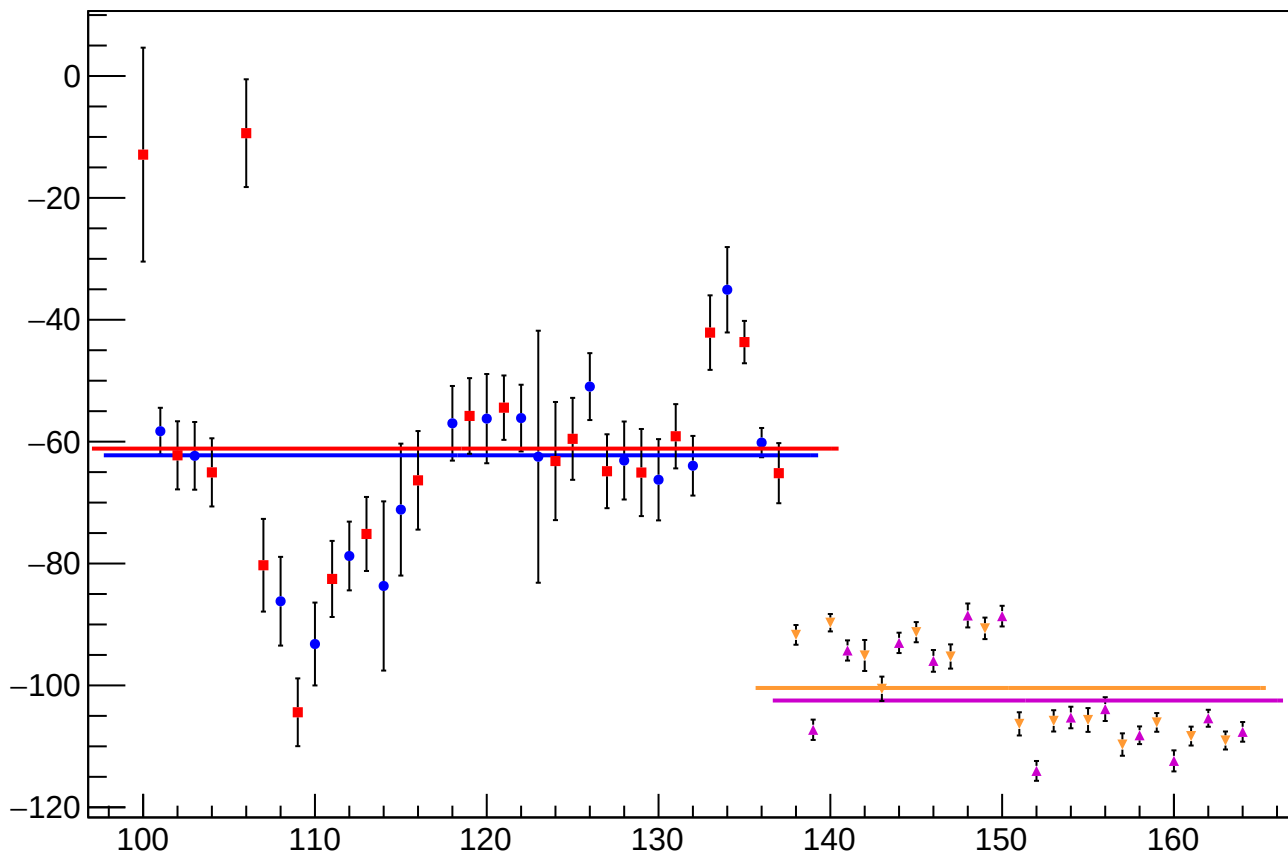
Right:  $-47.580 \pm 0.525$   $\chi^2/\text{NDF}: 2362.3/35$

In:  $-38.984 \pm 0.308$   $\chi^2/\text{NDF}: 2461.1/29$

Out:  $-38.683 \pm 0.303$   $\chi^2/\text{NDF}: 1965.5/32$

All:  $-38.831 \pm 0.216$   $\chi^2/\text{NDF}: 4427.1/62$

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:  $-100.419 \pm 0.462$   $\chi^2/\text{NDF}: 283.1/13$

Right Out:  $-61.142 \pm 1.379$   $\chi^2/\text{NDF}: 165.6/18$

Left In:  $-102.478 \pm 0.463$   $\chi^2/\text{NDF}: 311.7/12$

Left:  $-101.448 \pm 0.327$   $\chi^2/\text{NDF}: 604.7/26$

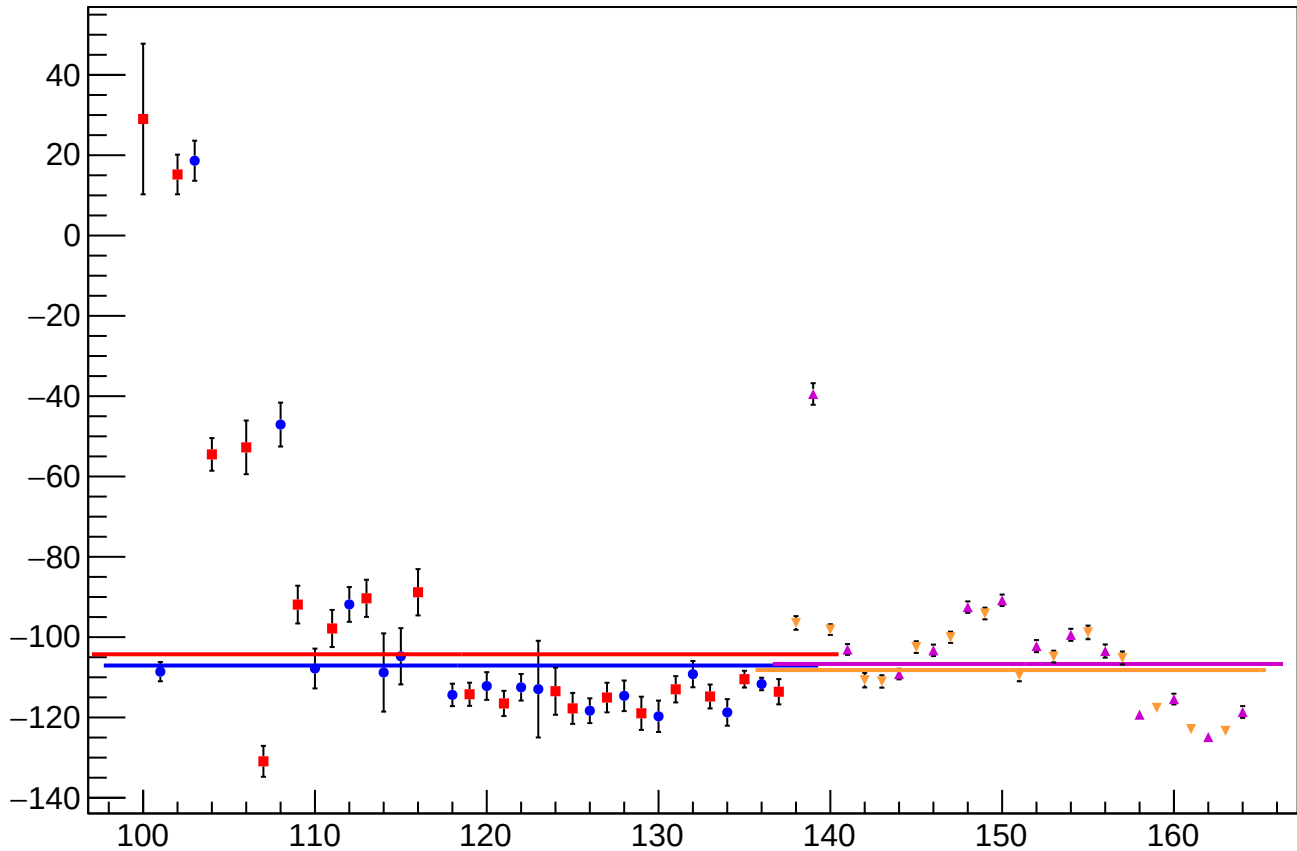
Right:  $-61.720 \pm 0.950$   $\chi^2/\text{NDF}: 233.3/35$

In:  $-98.018 \pm 0.436$   $\chi^2/\text{NDF}: 1217.8/29$

Out:  $-96.451 \pm 0.438$   $\chi^2/\text{NDF}: 1177.5/32$

All:  $-97.239 \pm 0.309$   $\chi^2/\text{NDF}: 2401.7/62$

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:  $-108.200 \pm 0.385$   $\chi^2/\text{NDF}$ : 654.8/13

Right Out:  $-104.269 \pm 0.861$   $\chi^2/\text{NDF}$ : 1018.6/18

Left In:  $-106.682 \pm 0.393$   $\chi^2/\text{NDF}$ : 1360.7/12

Left:  $-107.457 \pm 0.275$   $\chi^2/\text{NDF}$ : 2023.1/26

Right:  $-105.751 \pm 0.590$   $\chi^2/\text{NDF}$ : 1852.6/35

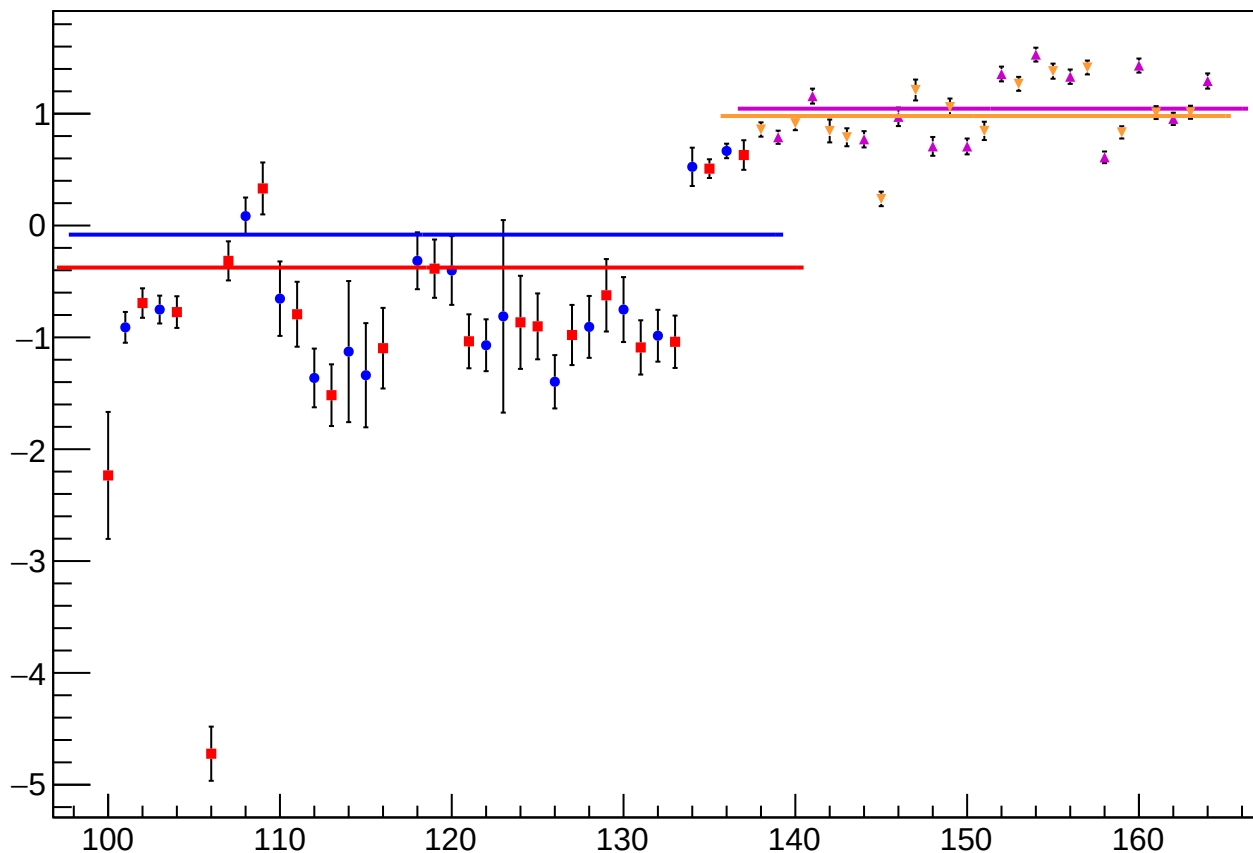
In:  $-106.755 \pm 0.354$   $\chi^2/\text{NDF}$ : 2189.2/29

Out:  $-107.546 \pm 0.351$   $\chi^2/\text{NDF}$ : 1690.9/32

All:  $-107.154 \pm 0.249$   $\chi^2/\text{NDF}$ : 3882.6/62



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:  $0.979 \pm 0.018$   $\chi^2/\text{NDF}$ : 265.4/13

Right Out:  $-0.376 \pm 0.044$   $\chi^2/\text{NDF}$ : 583.0/18

Left In:  $1.045 \pm 0.018$   $\chi^2/\text{NDF}$ : 300.5/12

Left:  $1.012 \pm 0.013$   $\chi^2/\text{NDF}$ : 572.6/26

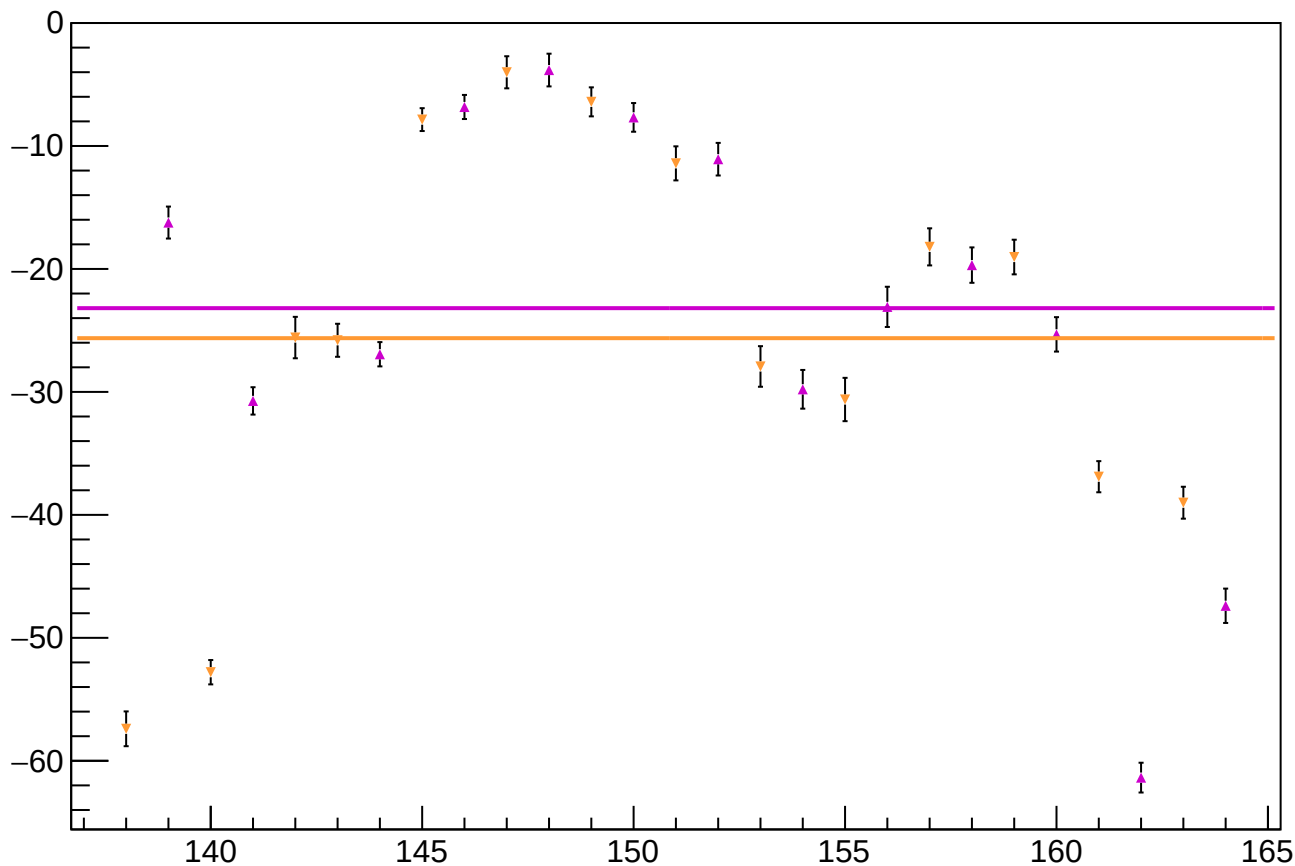
Right:  $-0.223 \pm 0.030$   $\chi^2/\text{NDF}$ : 935.4/35

In:  $0.871 \pm 0.017$   $\chi^2/\text{NDF}$ : 1232.9/29

Out:  $0.784 \pm 0.017$   $\chi^2/\text{NDF}$ : 1664.2/32

All:  $0.828 \pm 0.012$   $\chi^2/\text{NDF}$ : 2910.9/62

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



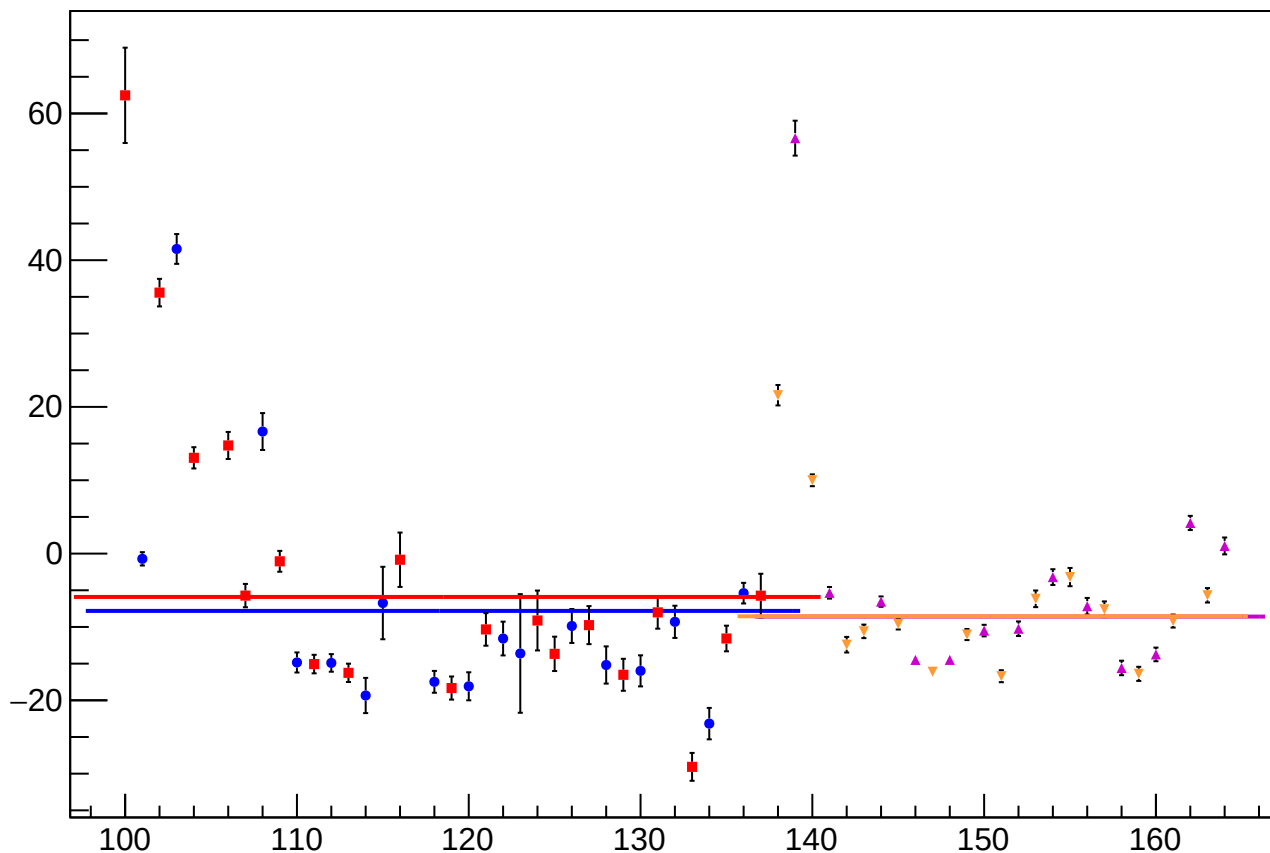
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -25.630+/-0.348  $\chi^2/\text{NDF}$ :2509.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -23.189+/-0.347  $\chi^2/\text{NDF}$ :2160.2/12

Left: -24.407+/-0.246  $\chi^2/\text{NDF}$ : 4694.2/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -23.189+/-0.347  $\chi^2/\text{NDF}$ :2160.2/12  
 Out: -25.630+/-0.348  $\chi^2/\text{NDF}$ :2509.4/13

All: -24.407+/-0.246  $\chi^2/\text{NDF}$ : 4694.2/26

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:  $-8.544 \pm 0.240$   $\chi^2/\text{NDF}$ : 1370.7/13

Right Out:  $-5.908 \pm 0.429$   $\chi^2/\text{NDF}$ : 1293.1/18

Left In:  $-8.585 \pm 0.242$   $\chi^2/\text{NDF}$ : 1311.1/12

Left:  $-8.564 \pm 0.171$   $\chi^2/\text{NDF}$ : 2681.8/26

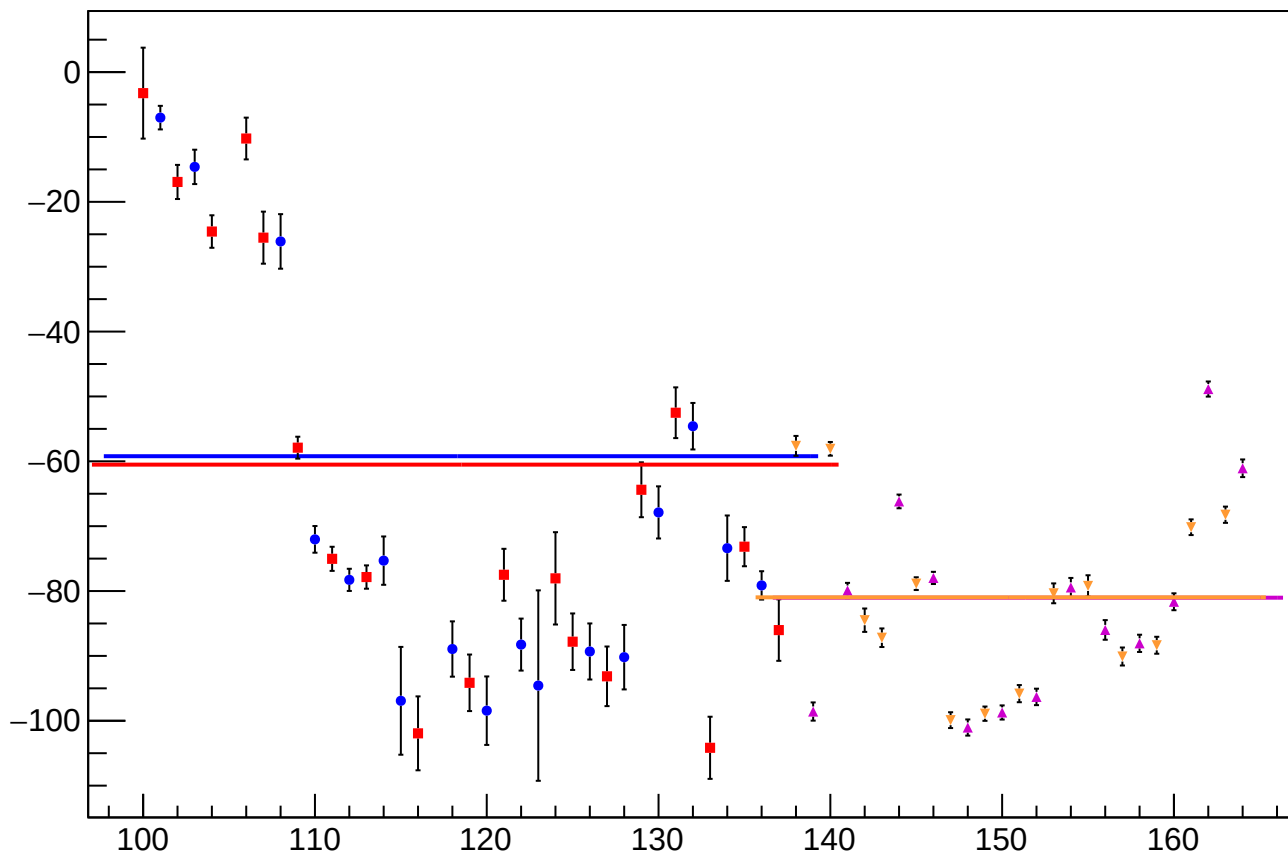
Right:  $-6.864 \pm 0.303$   $\chi^2/\text{NDF}$ : 2285.7/35

In:  $-8.397 \pm 0.211$   $\chi^2/\text{NDF}$ : 2296.3/29

Out:  $-7.914 \pm 0.210$   $\chi^2/\text{NDF}$ : 2692.5/32

All:  $-8.155 \pm 0.149$   $\chi^2/\text{NDF}$ : 4991.4/62

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-59.214 \pm 0.744$   $\chi^2/\text{NDF}$ : 1720.4/16

Left Out:  $-80.971 \pm 0.344$   $\chi^2/\text{NDF}$ : 1621.6/13

Right Out:  $-60.513 \pm 0.704$   $\chi^2/\text{NDF}$ : 1383.9/18

Left In:  $-81.027 \pm 0.339$   $\chi^2/\text{NDF}$ : 2046.2/12

Left:  $-80.999 \pm 0.242$   $\chi^2/\text{NDF}$ : 3667.8/26

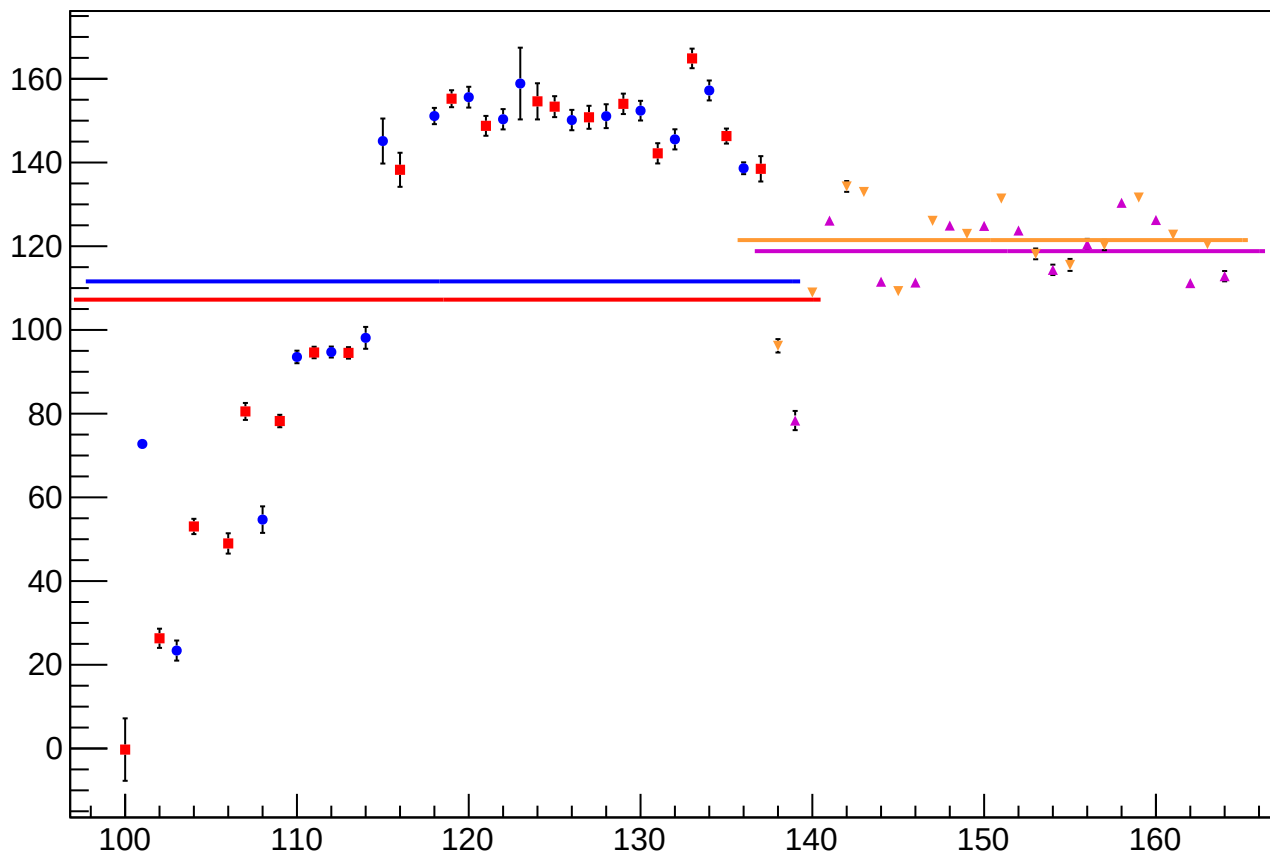
Right:  $-59.899 \pm 0.511$   $\chi^2/\text{NDF}$ : 3105.9/35

In:  $-77.268 \pm 0.309$   $\chi^2/\text{NDF}$ : 4478.5/29

Out:  $-77.026 \pm 0.309$   $\chi^2/\text{NDF}$ : 3686.8/32

All:  $-77.147 \pm 0.218$   $\chi^2/\text{NDF}$ : 8165.6/62

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: 121.467 $\pm$ 0.284  $\chi^2$ /NDF:1061.2/13

Right Out: 107.238 $\pm$ 0.488  $\chi^2$ /NDF: 7037.4/18

Left In: 118.824 $\pm$ 0.284  $\chi^2$ /NDF:920.9/12

Left: 120.147 $\pm$ 0.201  $\chi^2$ /NDF: 2025.2/26

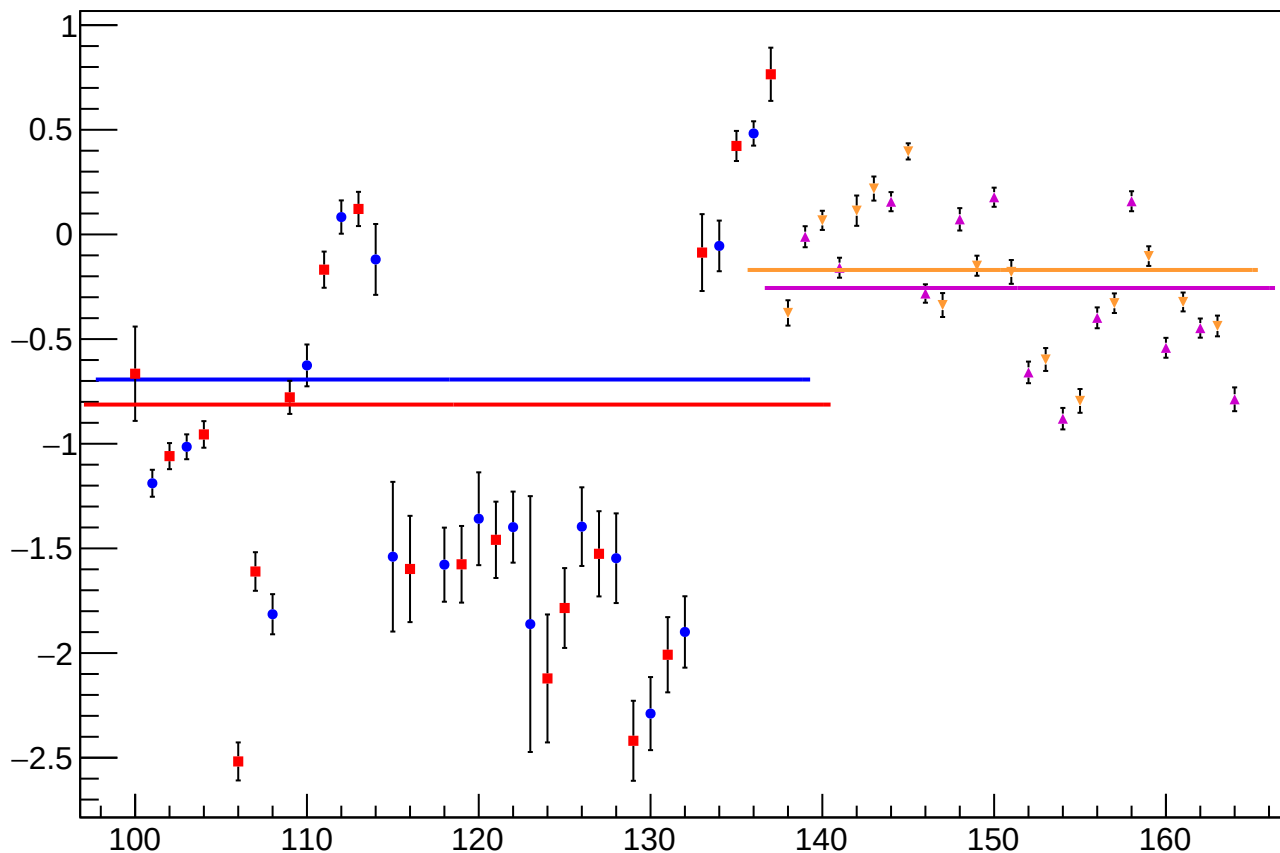
Right: 109.423 $\pm$ 0.344  $\chi^2$ /NDF: 13037.0/35

In: 116.984 $\pm$ 0.246  $\chi^2$ /NDF:7044.7/29

Out: 117.862 $\pm$ 0.246  $\chi^2$ /NDF:8734.1/32

All: 117.423 $\pm$ 0.174  $\chi^2$ /NDF: 15785.2/62

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:  $-0.170 \pm 0.014$   $\chi^2/\text{NDF}$ : 559.9/13

Right Out:  $-0.813 \pm 0.024$   $\chi^2/\text{NDF}$ : 1310.7/18

Left In:  $-0.256 \pm 0.014$   $\chi^2/\text{NDF}$ : 671.3/12

Left:  $-0.213 \pm 0.010$   $\chi^2/\text{NDF}$ : 1251.4/26

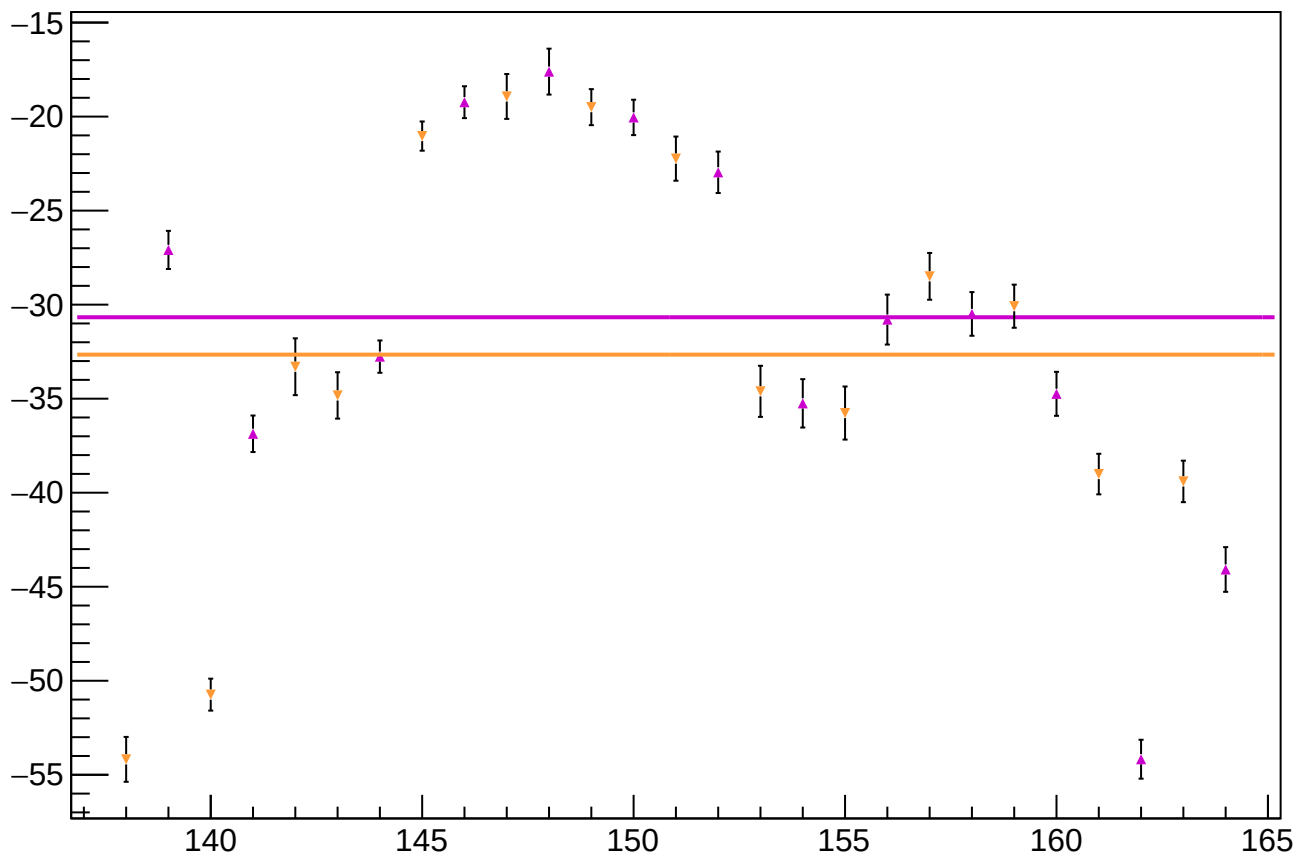
Right:  $-0.756 \pm 0.018$   $\chi^2/\text{NDF}$ : 2315.2/35

In:  $-0.350 \pm 0.012$   $\chi^2/\text{NDF}$ : 1890.2/29

Out:  $-0.323 \pm 0.012$   $\chi^2/\text{NDF}$ : 2402.9/32

All:  $-0.336 \pm 0.008$   $\chi^2/\text{NDF}$ : 4295.8/62

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: -32.658+/-0.295  $\chi^2/\text{NDF}$ :1499.9/13

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

Left In: -30.670+/-0.292  $\chi^2/\text{NDF}$ :1200.4/12

Left: -31.655+/-0.208  $\chi^2/\text{NDF}$ : 2723.2/26

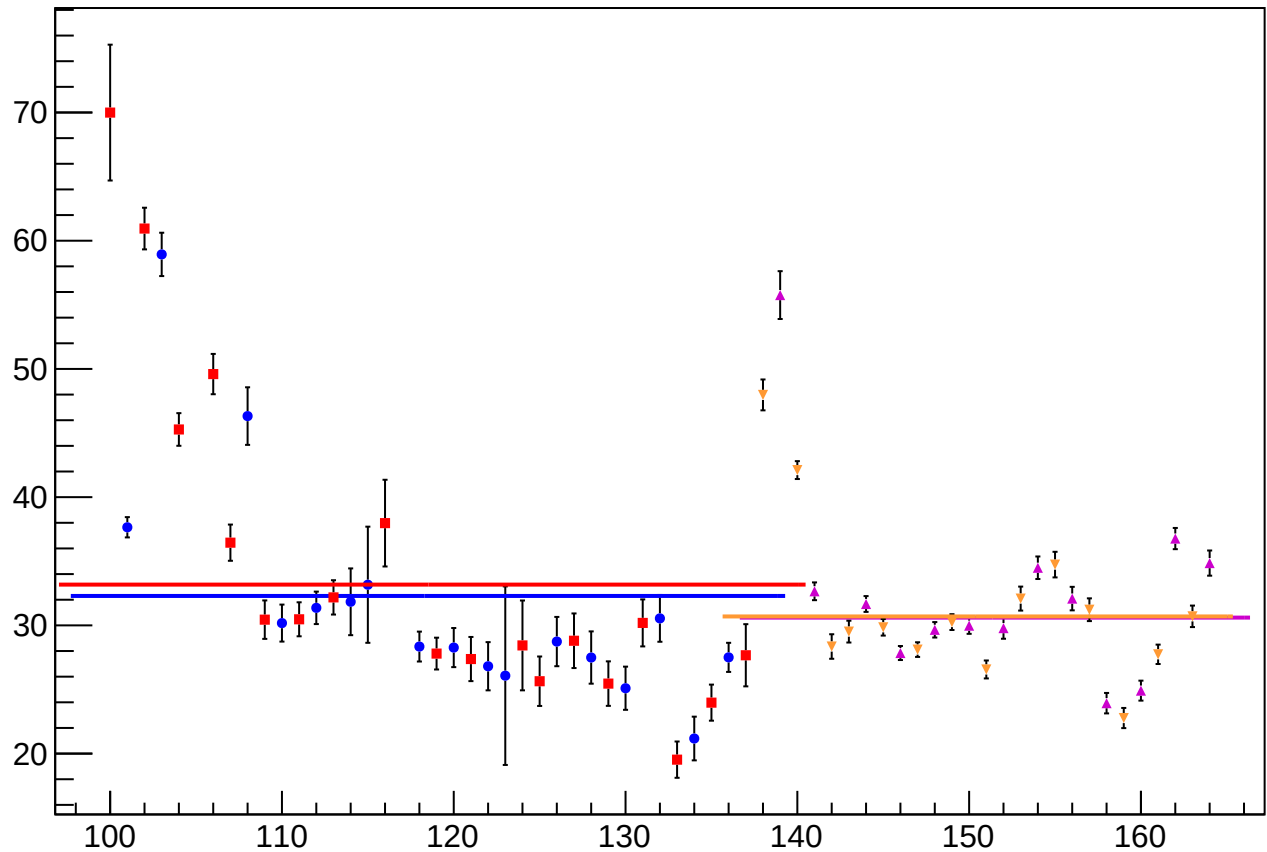
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -30.670+/-0.292  $\chi^2/\text{NDF}$ :1200.4/12

Out: -32.658+/-0.295  $\chi^2/\text{NDF}$ :1499.9/13

All: -31.655+/-0.208  $\chi^2/\text{NDF}$ : 2723.2/26

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:  $30.696 \pm 0.206$   $\chi^2/\text{NDF}: 675.0/13$

Right Out:  $33.180 \pm 0.379$   $\chi^2/\text{NDF}: 770.3/18$

Left In:  $30.606 \pm 0.207$   $\chi^2/\text{NDF}: 443.7/12$

Left:  $30.651 \pm 0.146$   $\chi^2/\text{NDF}: 1118.8/26$

Right:  $32.730 \pm 0.266$   $\chi^2/\text{NDF}: 1225.3/35$

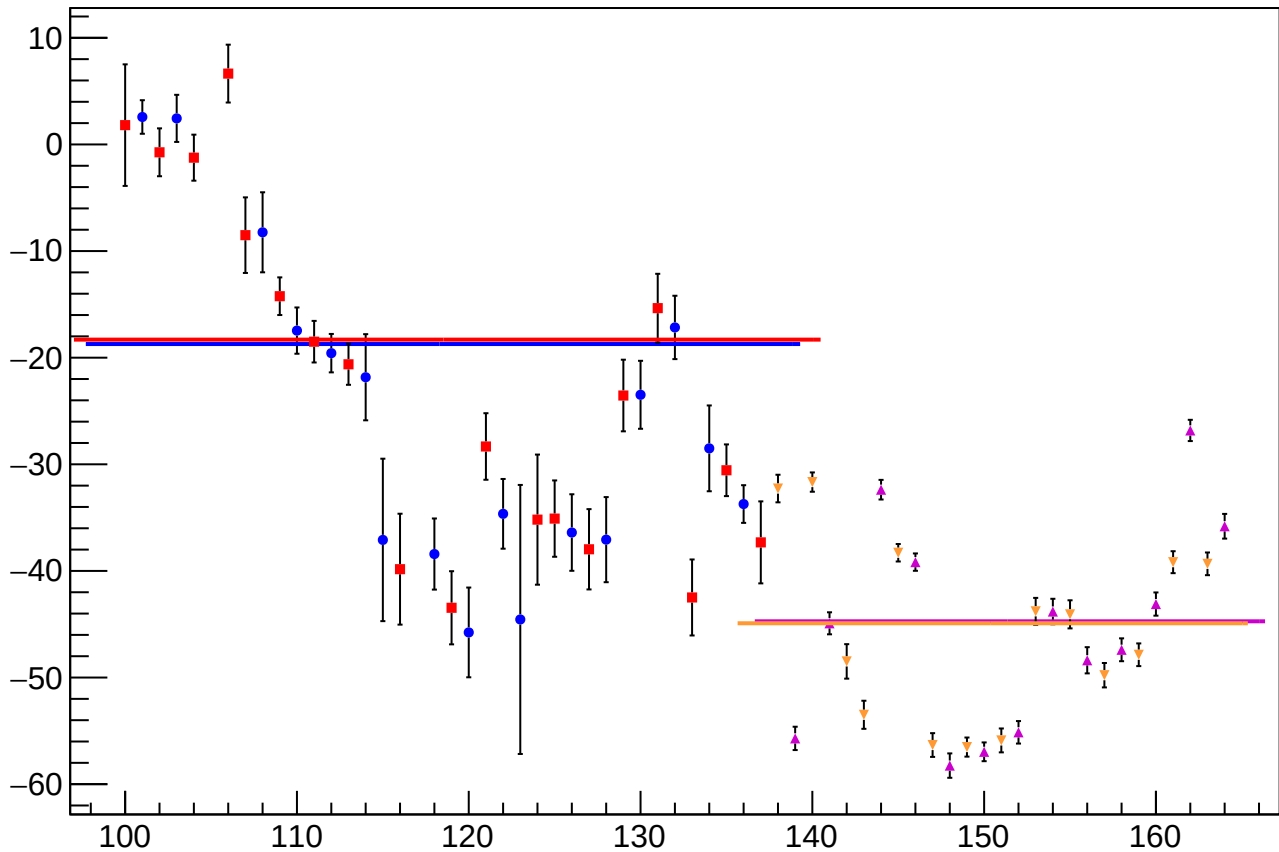
In:  $31.006 \pm 0.181$   $\chi^2/\text{NDF}: 911.6/29$

Out:  $31.262 \pm 0.181$   $\chi^2/\text{NDF}: 1478.4/32$

All:  $31.134 \pm 0.128$   $\chi^2/\text{NDF}: 2391.0/62$



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:  $-44.910 \pm 0.291$   $\chi^2/\text{NDF}: 876.4/13$

Right Out:  $-18.306 \pm 0.644$   $\chi^2/\text{NDF}: 472.6/18$

Left In:  $-44.725 \pm 0.286$   $\chi^2/\text{NDF}: 1157.5/12$

Left:  $-44.816 \pm 0.204$   $\chi^2/\text{NDF}: 2034.1/26$

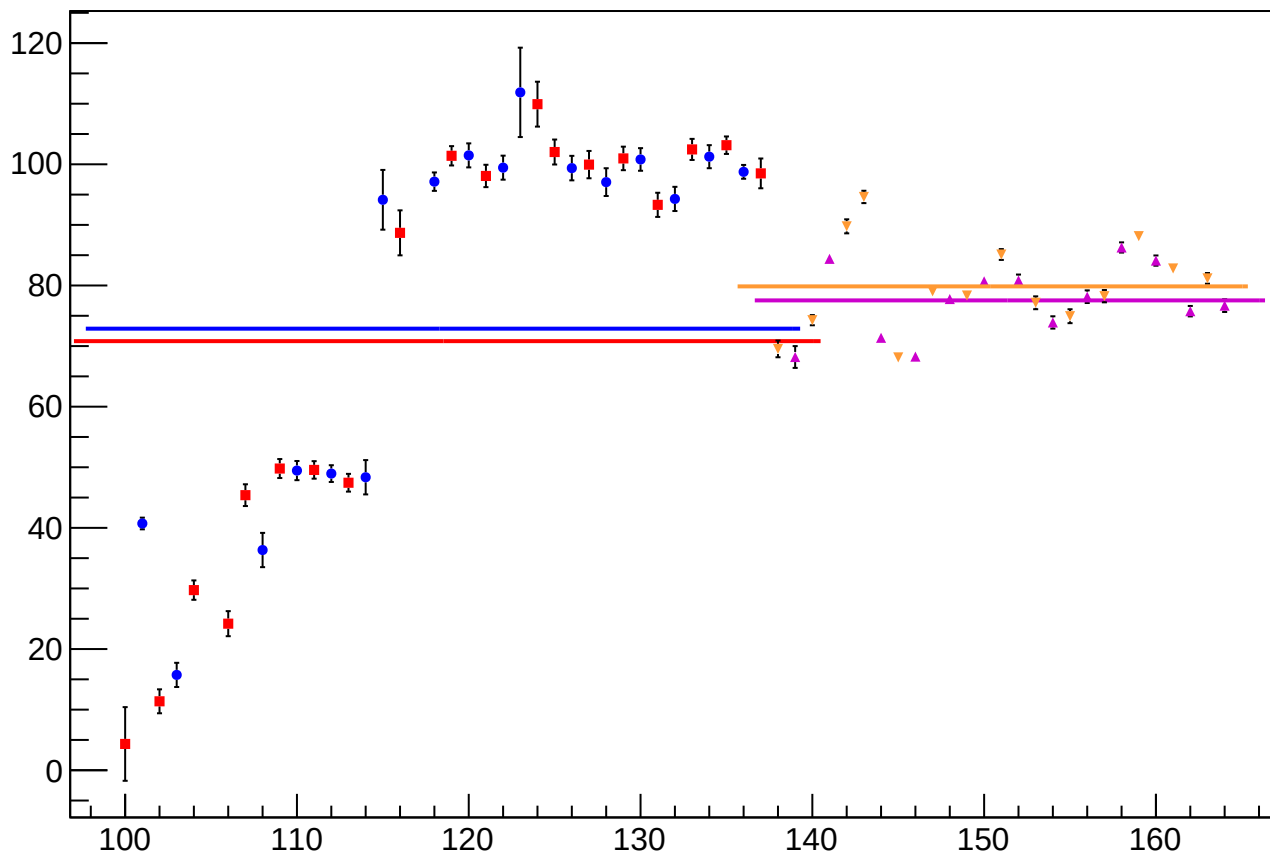
Right:  $-18.506 \pm 0.463$   $\chi^2/\text{NDF}: 992.4/35$

In:  $-40.675 \pm 0.263$   $\chi^2/\text{NDF}: 2966.6/29$

Out:  $-40.388 \pm 0.265$   $\chi^2/\text{NDF}: 2767.5/32$

All:  $-40.533 \pm 0.187$   $\chi^2/\text{NDF}: 5734.7/62$

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.875 $\pm$ 0.426  $\chi^2/\text{NDF}$ : 4737.9/16

Left Out: 79.851 $\pm$ 0.242  $\chi^2/\text{NDF}$ : 817.0/13

Right Out: 70.815 $\pm$ 0.433  $\chi^2/\text{NDF}$ : 5489.3/18

Left In: 77.539 $\pm$ 0.242  $\chi^2/\text{NDF}$ : 571.1/12

Left: 78.694 $\pm$ 0.171  $\chi^2/\text{NDF}$ : 1433.8/26

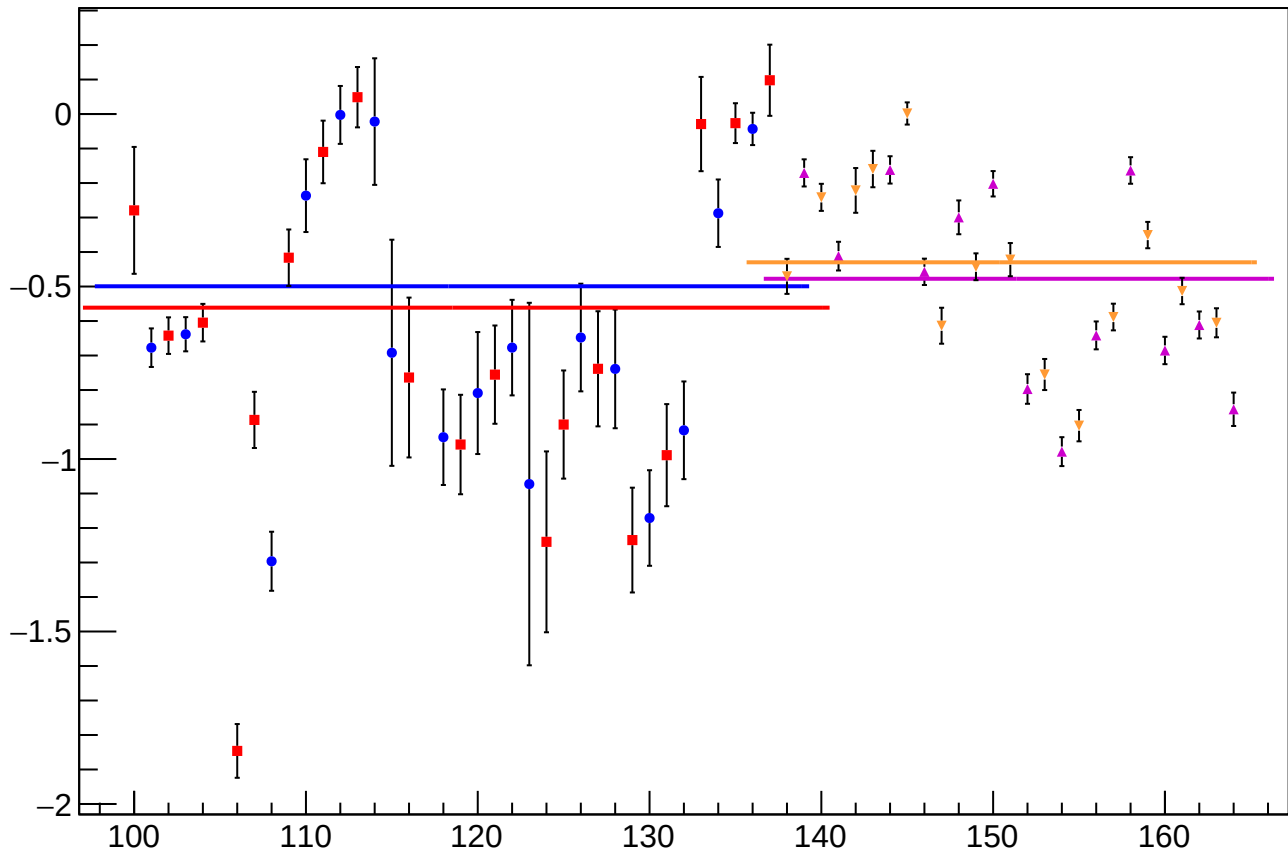
Right: 71.863 $\pm$ 0.304  $\chi^2/\text{NDF}$ : 10238.7/35

In: 76.402 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 5399.8/29

Out: 77.701 $\pm$ 0.211  $\chi^2/\text{NDF}$ : 6637.8/32

All: 77.048 $\pm$ 0.149  $\chi^2/\text{NDF}$ : 12056.6/62

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:  $-0.430 \pm 0.011$   $\chi^2/\text{NDF}$ : 456.4/13

Right Out:  $-0.561 \pm 0.021$   $\chi^2/\text{NDF}$ : 562.3/18

Left In:  $-0.478 \pm 0.011$   $\chi^2/\text{NDF}$ : 578.0/12

Left:  $-0.454 \pm 0.008$   $\chi^2/\text{NDF}$ : 1043.1/26

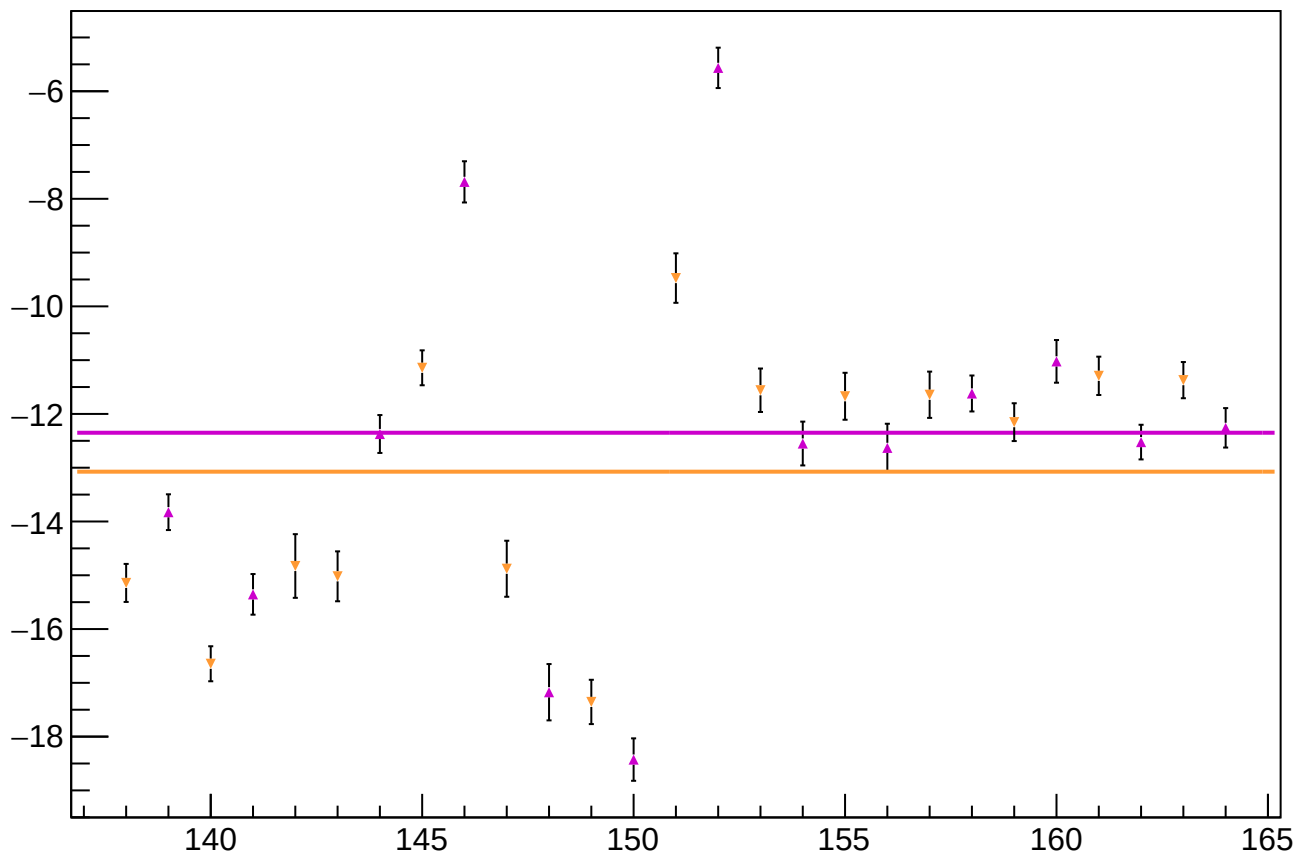
Right:  $-0.532 \pm 0.015$   $\chi^2/\text{NDF}$ : 869.9/35

In:  $-0.482 \pm 0.010$   $\chi^2/\text{NDF}$ : 882.2/29

Out:  $-0.459 \pm 0.010$   $\chi^2/\text{NDF}$ : 1048.1/32

All:  $-0.471 \pm 0.007$   $\chi^2/\text{NDF}$ : 1932.9/62

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



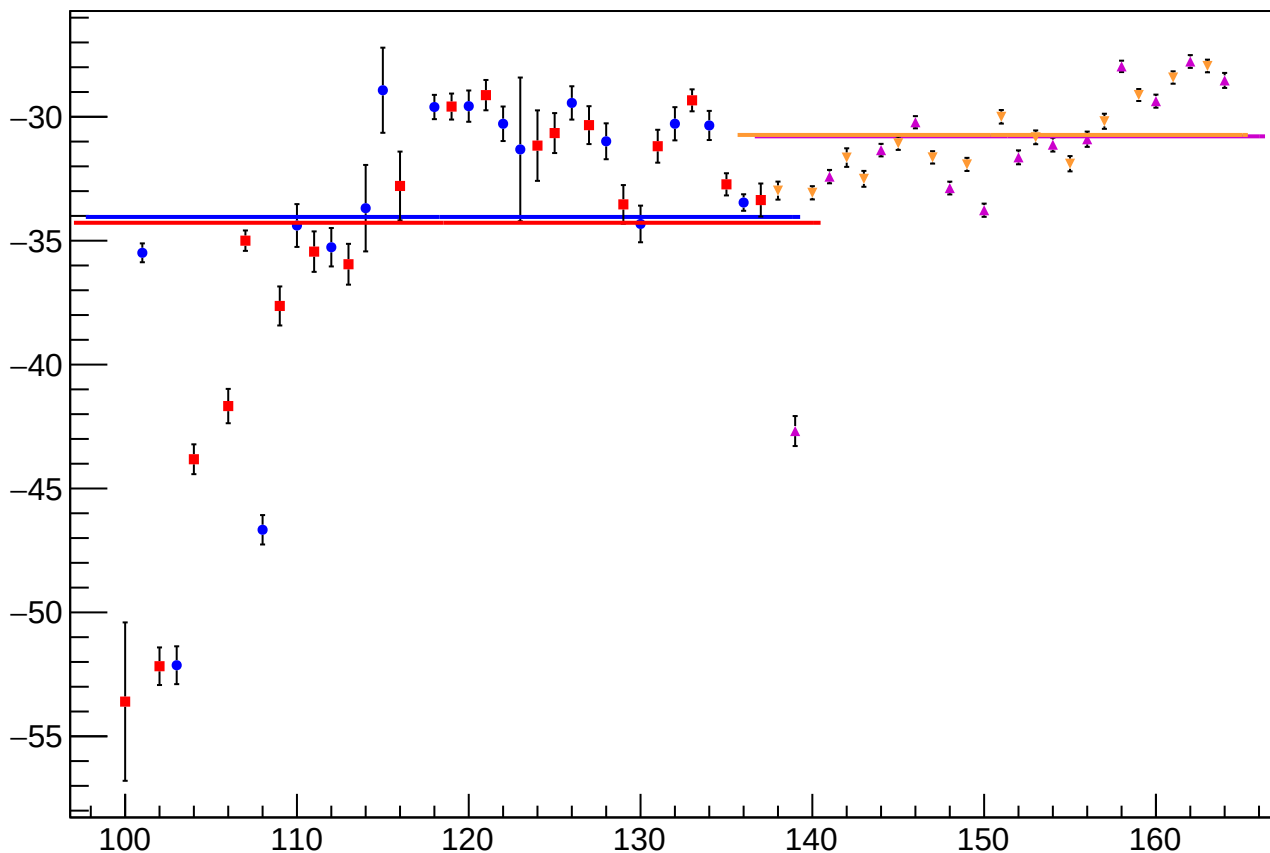
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-13.074 \pm 0.105$   $\chi^2/\text{NDF}: 490.6/13$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-12.350 \pm 0.105$   $\chi^2/\text{NDF}: 896.7/12$

Left:  $-12.709 \pm 0.074$   $\chi^2/\text{NDF}: 1411.1/26$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-12.350 \pm 0.105$   $\chi^2/\text{NDF}: 896.7/12$   
 Out:  $-13.074 \pm 0.105$   $\chi^2/\text{NDF}: 490.6/13$

All:  $-12.709 \pm 0.074$   $\chi^2/\text{NDF}: 1411.1/26$

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



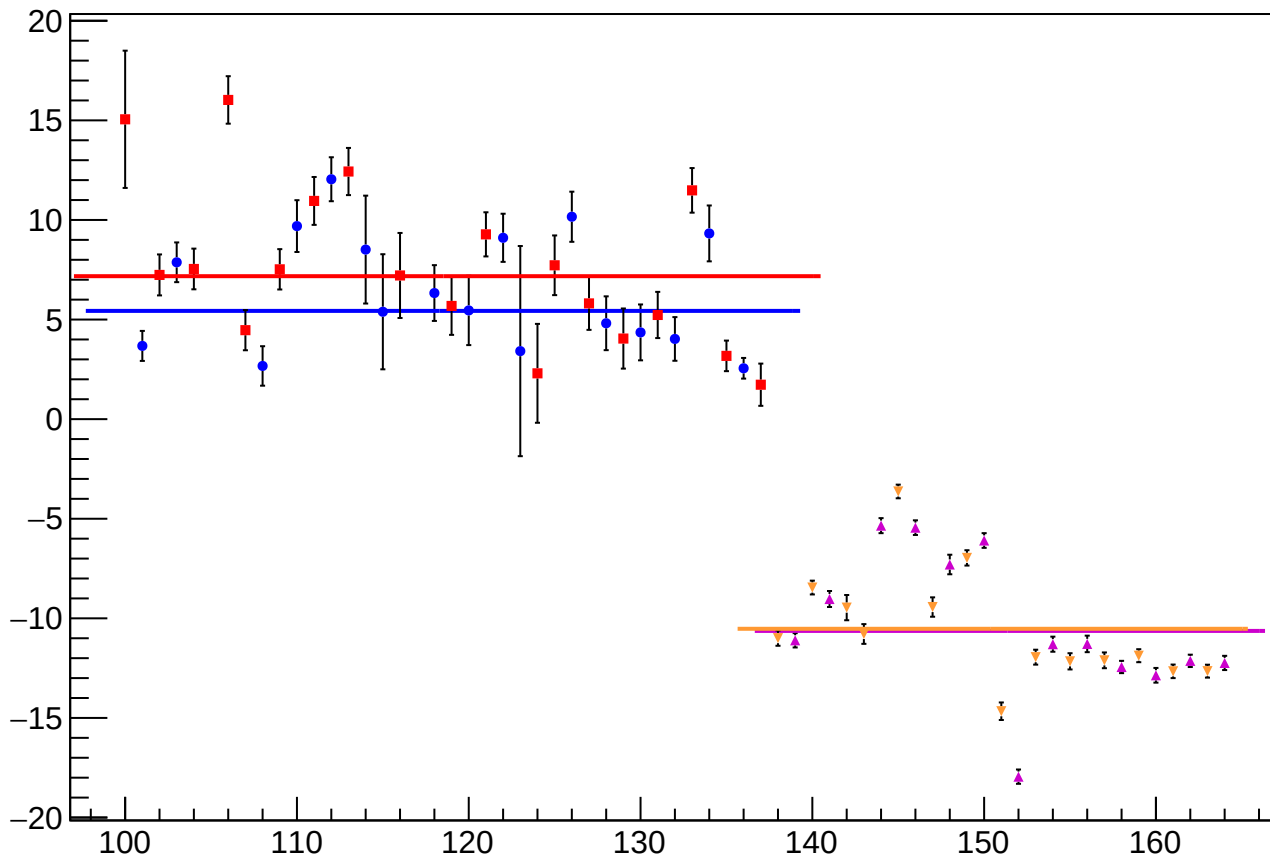
Right In:  $-34.042 \pm 0.151$   $\chi^2/\text{NDF}$ : 1340.8/16  
 Left Out:  $-30.732 \pm 0.075$   $\chi^2/\text{NDF}$ : 458.7/13  
 Right Out:  $-34.277 \pm 0.151$   $\chi^2/\text{NDF}$ : 1349.5/18  
 Left In:  $-30.789 \pm 0.076$   $\chi^2/\text{NDF}$ : 1004.0/12

Left:  $-30.760 \pm 0.053$   $\chi^2/\text{NDF}$ : 1463.0/26  
 Right:  $-34.159 \pm 0.107$   $\chi^2/\text{NDF}$ : 2691.4/35

In:  $-31.450 \pm 0.068$   $\chi^2/\text{NDF}$ : 2716.0/29  
 Out:  $-31.433 \pm 0.067$   $\chi^2/\text{NDF}$ : 2251.3/32

All:  $-31.442 \pm 0.048$   $\chi^2/\text{NDF}$ : 4967.3/62

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.435 \pm 0.270$   $\chi^2/\text{NDF}: 132.0/16$

Left Out:  $-10.525 \pm 0.103$   $\chi^2/\text{NDF}: 769.0/13$

Right Out:  $7.177 \pm 0.274$   $\chi^2/\text{NDF}: 182.6/18$

Left In:  $-10.632 \pm 0.102$   $\chi^2/\text{NDF}: 1144.8/12$

Left:  $-10.579 \pm 0.073$   $\chi^2/\text{NDF}: 1914.3/26$

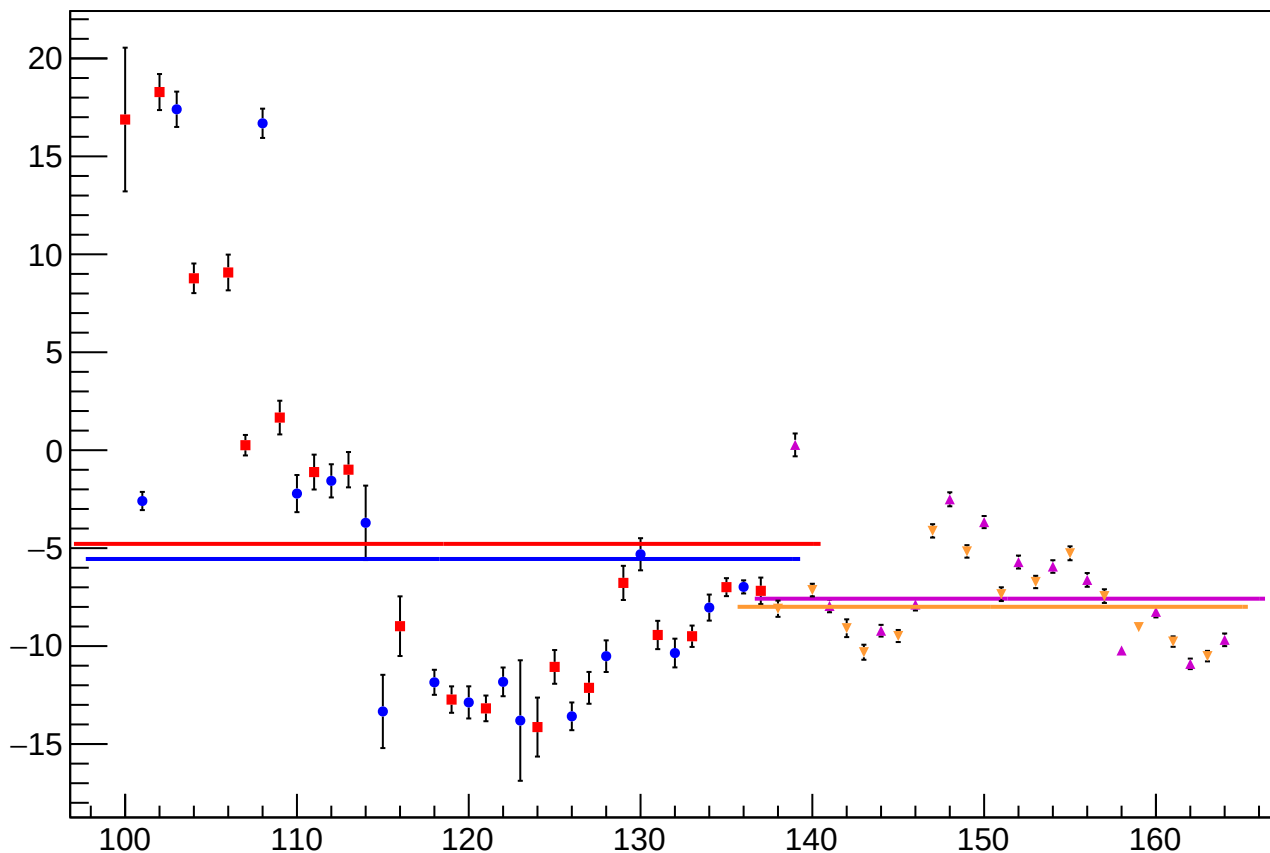
Right:  $6.291 \pm 0.192$   $\chi^2/\text{NDF}: 335.1/35$

In:  $-8.625 \pm 0.095$   $\chi^2/\text{NDF}: 4385.4/29$

Out:  $-8.317 \pm 0.097$   $\chi^2/\text{NDF}: 4600.4/32$

All:  $-8.474 \pm 0.068$   $\chi^2/\text{NDF}: 8991.0/62$

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:  $-7.995 \pm 0.087$   $\chi^2/\text{NDF}$ : 509.0/13

Right Out:  $-4.782 \pm 0.173$   $\chi^2/\text{NDF}$ : 2040.4/18

Left In:  $-7.581 \pm 0.087$   $\chi^2/\text{NDF}$ : 958.8/12

Left:  $-7.789 \pm 0.061$   $\chi^2/\text{NDF}$ : 1479.2/26

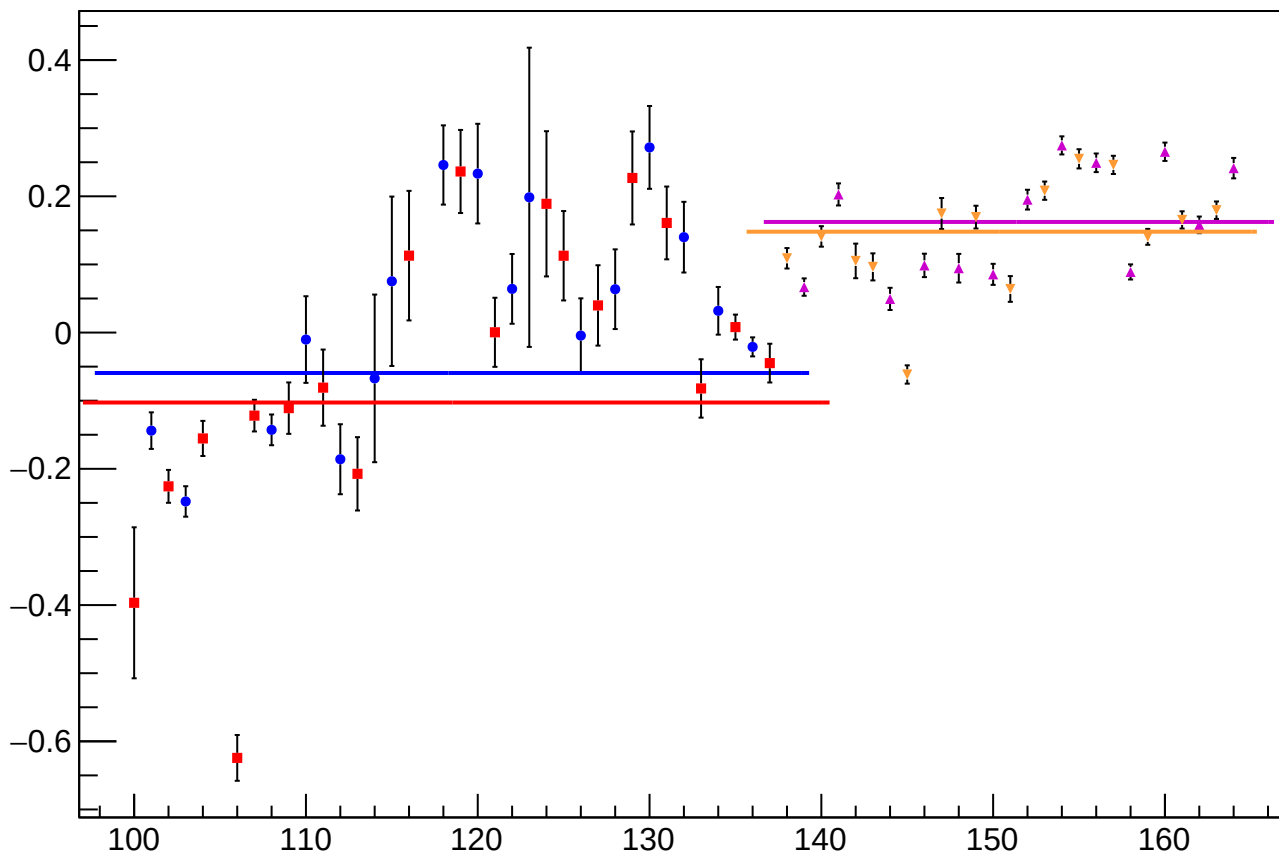
Right:  $-5.174 \pm 0.121$   $\chi^2/\text{NDF}$ : 4175.8/35

In:  $-7.159 \pm 0.077$   $\chi^2/\text{NDF}$ : 3197.0/29

Out:  $-7.351 \pm 0.077$   $\chi^2/\text{NDF}$ : 2825.7/32

All:  $-7.255 \pm 0.055$   $\chi^2/\text{NDF}$ : 6025.8/62

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:  $0.148 \pm 0.004$   $\chi^2/\text{NDF}$ : 422.5/13

Right Out:  $-0.103 \pm 0.008$   $\chi^2/\text{NDF}$ : 435.5/18

Left In:  $0.162 \pm 0.004$   $\chi^2/\text{NDF}$ : 406.8/12

Left:  $0.155 \pm 0.003$   $\chi^2/\text{NDF}$ : 835.7/26

Right:  $-0.081 \pm 0.006$   $\chi^2/\text{NDF}$ : 666.4/35

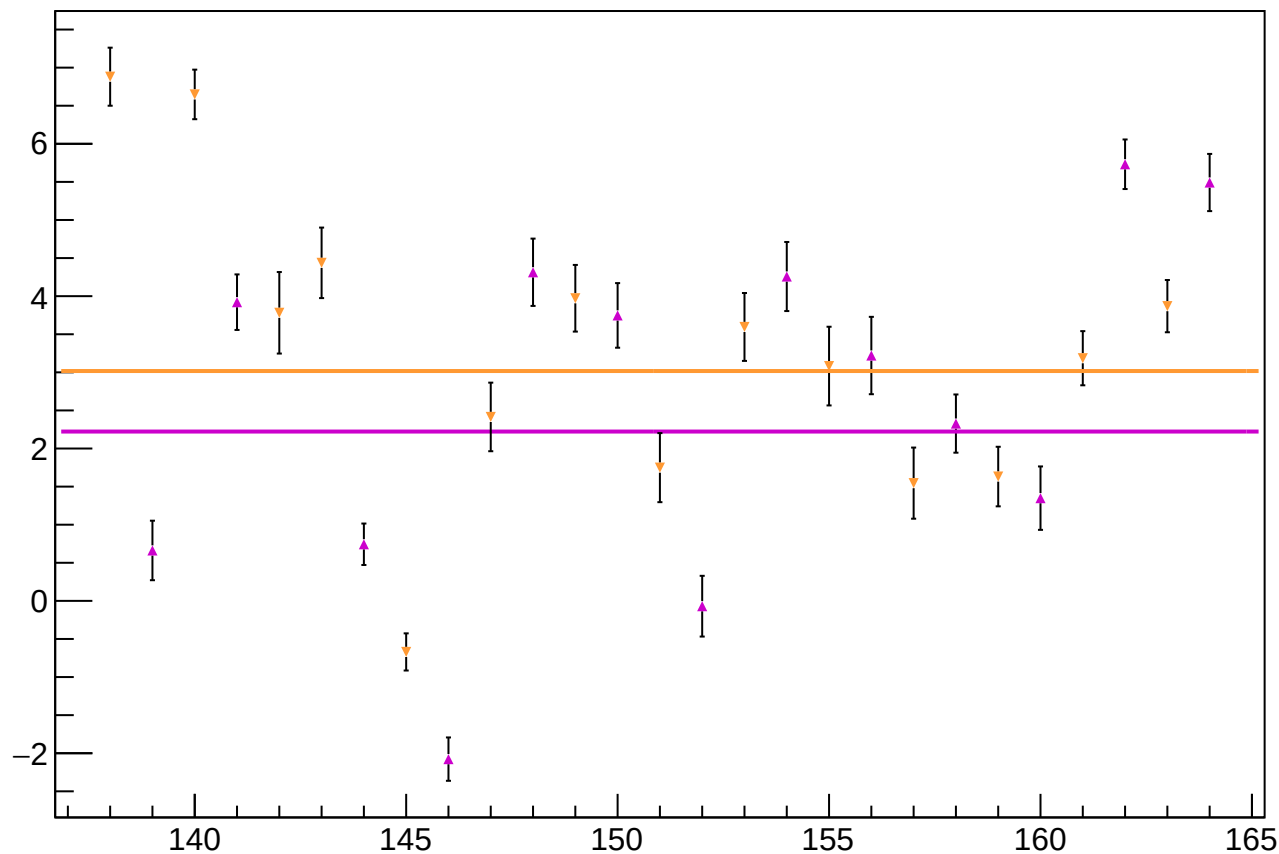
In:  $0.122 \pm 0.004$   $\chi^2/\text{NDF}$ : 1195.9/29

Out:  $0.102 \pm 0.004$   $\chi^2/\text{NDF}$ : 1581.7/32

All:  $0.112 \pm 0.003$   $\chi^2/\text{NDF}$ : 2793.5/62



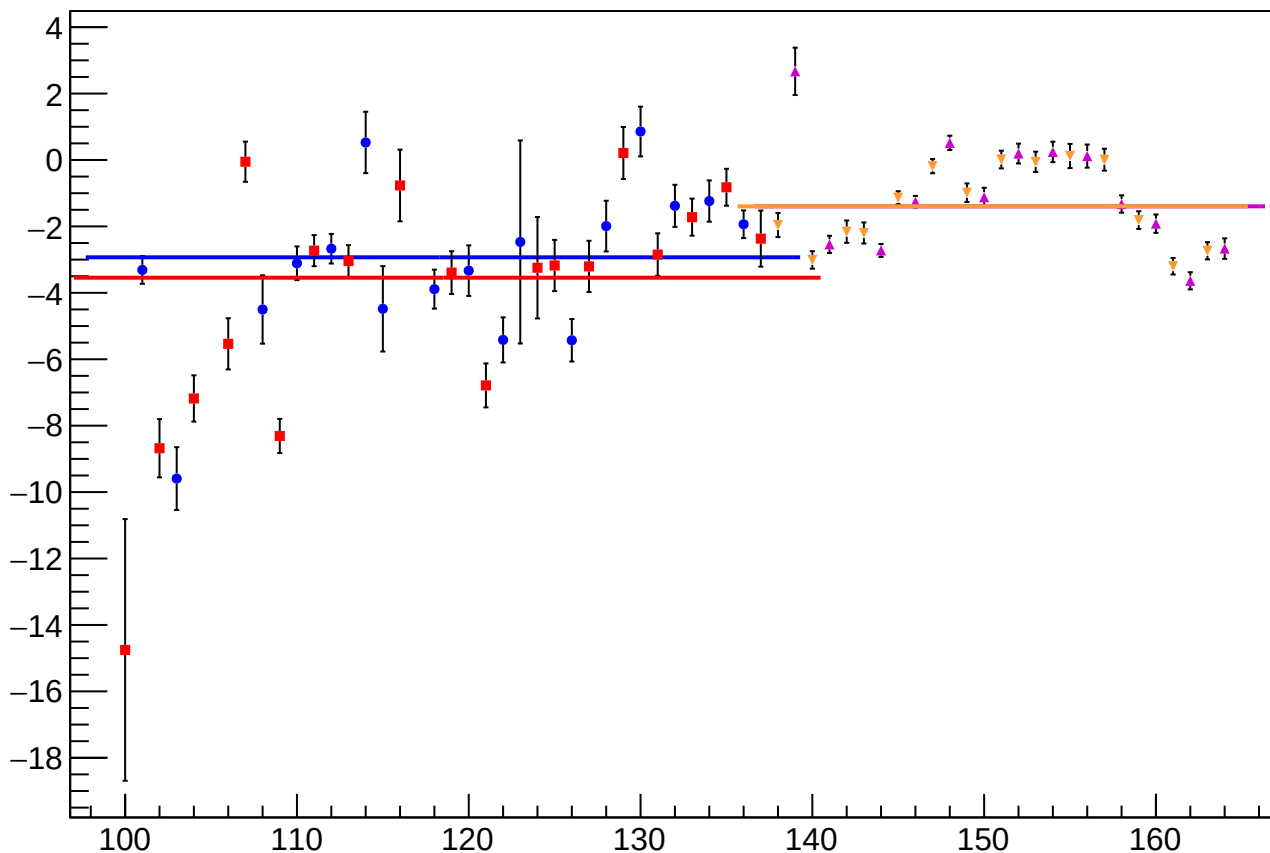
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.017 $\pm$ 0.104  $\chi^2/\text{NDF}$ :512.5/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.223 $\pm$ 0.103  $\chi^2/\text{NDF}$ :584.7/12

Left: 2.615 $\pm$ 0.073  $\chi^2/\text{NDF}$ : 1126.8/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.223 $\pm$ 0.103  $\chi^2/\text{NDF}$ :584.7/12  
 Out: 3.017 $\pm$ 0.104  $\chi^2/\text{NDF}$ :512.5/13  
 All: 2.615 $\pm$ 0.073  $\chi^2/\text{NDF}$ : 1126.8/26

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:  $-1.395 \pm 0.073$   $\chi^2/\text{NDF}$ : 251.2/13

Right Out:  $-3.544 \pm 0.155$   $\chi^2/\text{NDF}$ : 291.7/18

Left In:  $-1.395 \pm 0.072$   $\chi^2/\text{NDF}$ : 350.2/12

Left:  $-1.395 \pm 0.051$   $\chi^2/\text{NDF}$ : 601.5/26

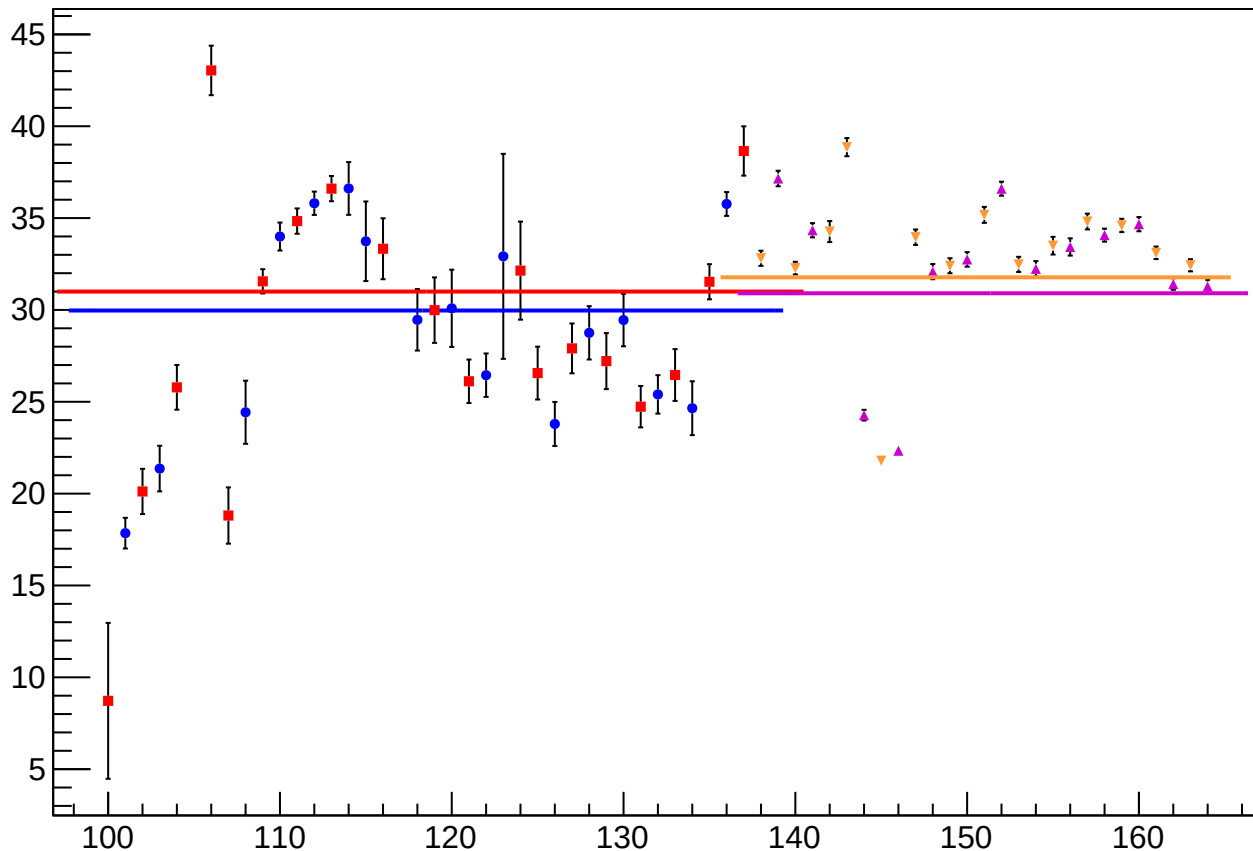
Right:  $-3.236 \pm 0.109$   $\chi^2/\text{NDF}$ : 446.1/35

In:  $-1.671 \pm 0.065$   $\chi^2/\text{NDF}$ : 578.4/29

Out:  $-1.787 \pm 0.066$   $\chi^2/\text{NDF}$ : 700.9/32

All:  $-1.728 \pm 0.046$   $\chi^2/\text{NDF}$ : 1280.8/62

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:  $31.775 \pm 0.103$   $\chi^2/\text{NDF}: 1946.6/13$

Right Out:  $31.000 \pm 0.260$   $\chi^2/\text{NDF}: 479.5/18$

Left In:  $30.906 \pm 0.100$   $\chi^2/\text{NDF}: 2269.7/12$

Left:  $31.330 \pm 0.072$   $\chi^2/\text{NDF}: 4252.7/26$

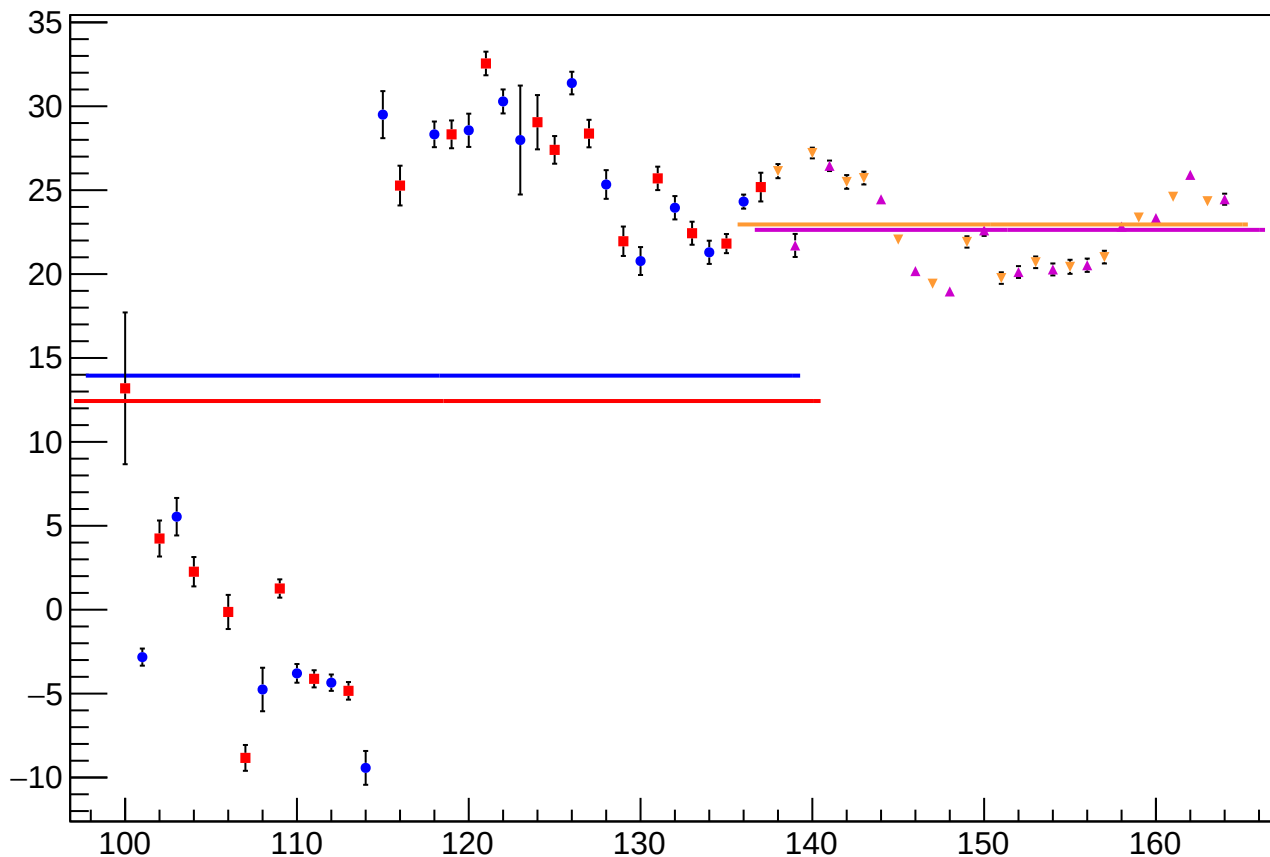
Right:  $30.497 \pm 0.186$   $\chi^2/\text{NDF}: 1041.5/35$

In:  $30.790 \pm 0.094$   $\chi^2/\text{NDF}: 2834.8/29$

Out:  $31.670 \pm 0.096$   $\chi^2/\text{NDF}: 2433.8/32$

All:  $31.222 \pm 0.067$   $\chi^2/\text{NDF}: 5311.6/62$

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: 22.957 $\pm$ 0.085  $\chi^2$ /NDF: 751.1/13

Right Out: 12.435 $\pm$ 0.174  $\chi^2$ /NDF: 6962.9/18

Left In: 22.634 $\pm$ 0.084  $\chi^2$ /NDF: 794.3/12

Left: 22.793 $\pm$ 0.060  $\chi^2$ /NDF: 1552.6/26

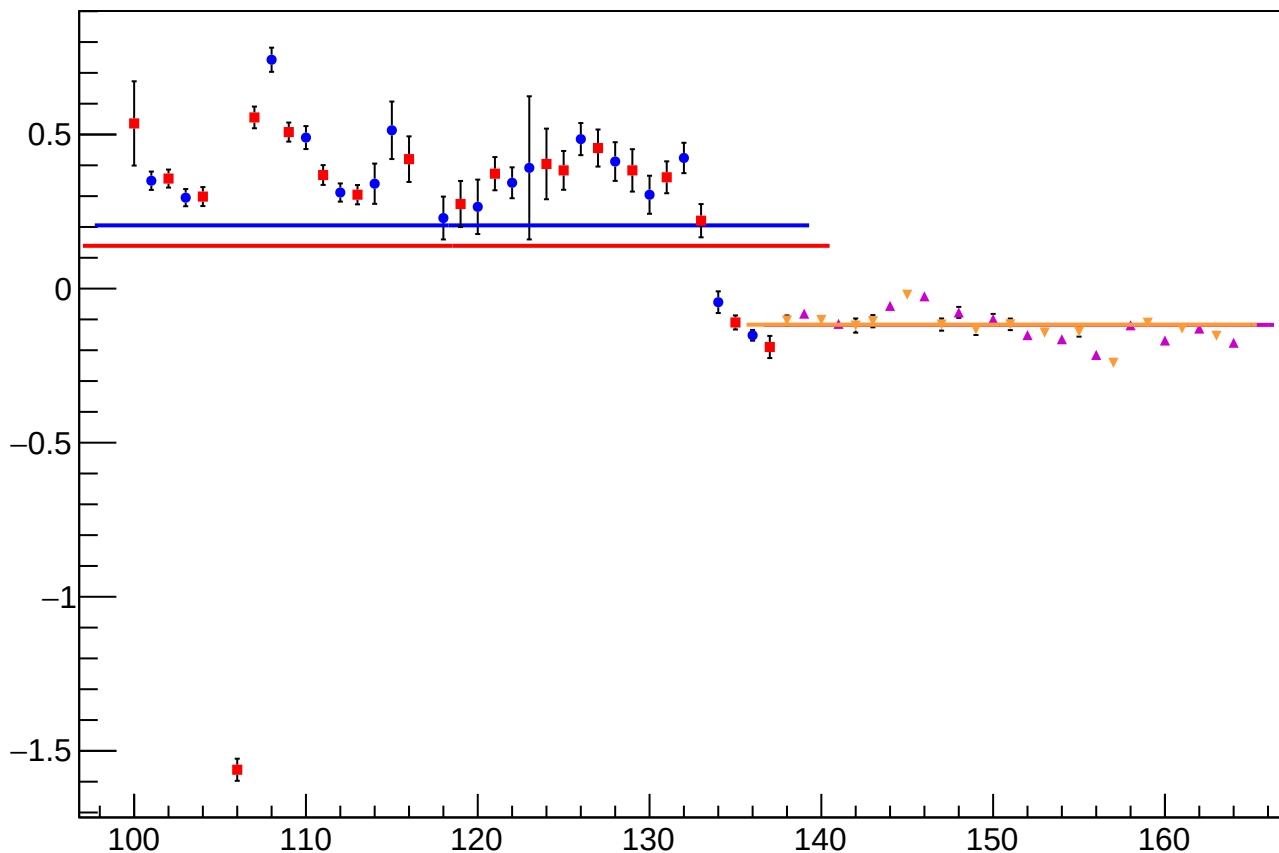
Right: 13.199 $\pm$ 0.122  $\chi^2$ /NDF: 14393.1/35

In: 20.958 $\pm$ 0.076  $\chi^2$ /NDF: 10245.3/29

Out: 20.913 $\pm$ 0.077  $\chi^2$ /NDF: 10671.3/32

All: 20.936 $\pm$ 0.054  $\chi^2$ /NDF: 20916.8/62

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:  $-0.117 \pm 0.004$   $\chi^2/\text{NDF}$ : 180.6/13

Right Out:  $0.139 \pm 0.009$   $\chi^2/\text{NDF}$ : 3016.8/18

Left In:  $-0.118 \pm 0.004$   $\chi^2/\text{NDF}$ : 172.2/12

Left:  $-0.117 \pm 0.003$   $\chi^2/\text{NDF}$ : 352.8/26

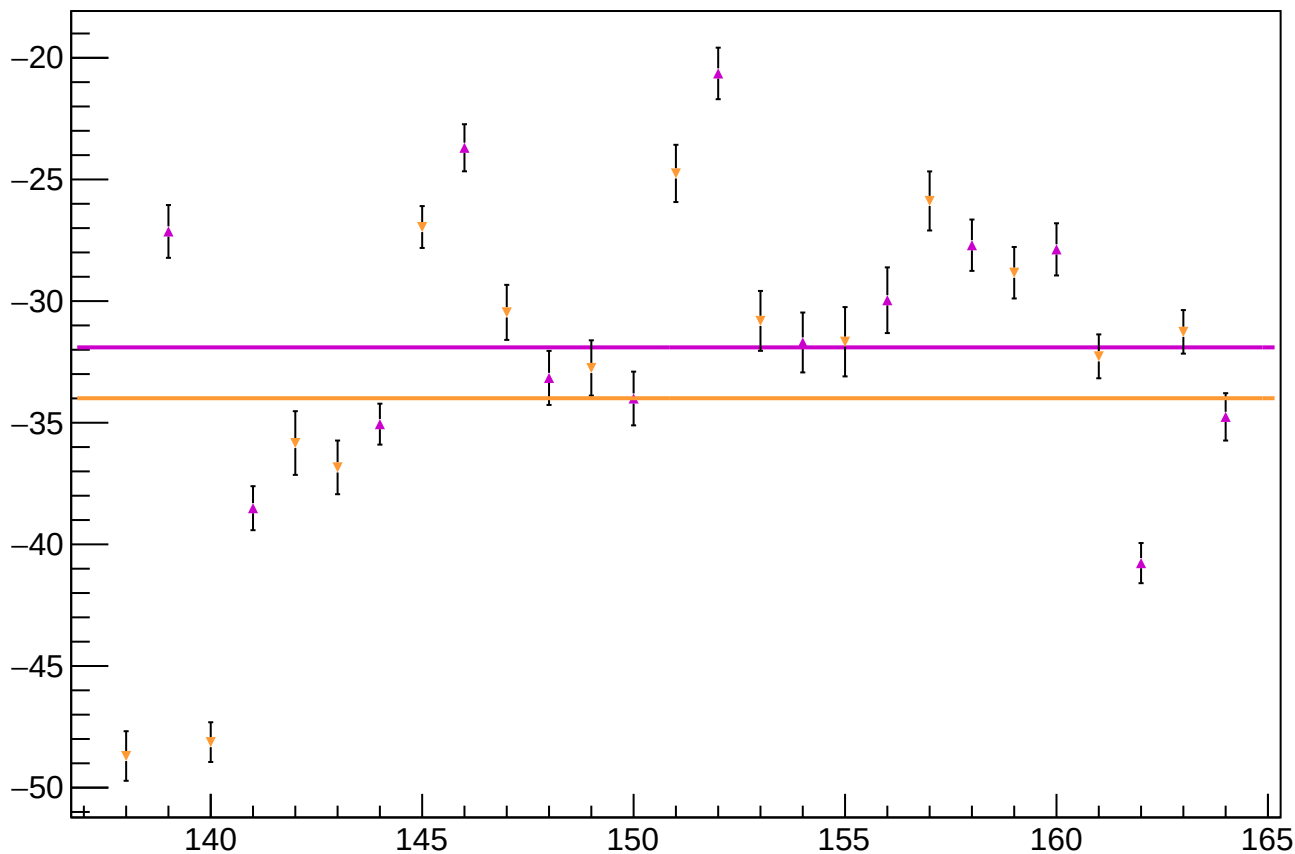
Right:  $0.171 \pm 0.007$   $\chi^2/\text{NDF}$ : 3888.5/35

In:  $-0.068 \pm 0.004$   $\chi^2/\text{NDF}$ : 2026.0/29

Out:  $-0.076 \pm 0.004$   $\chi^2/\text{NDF}$ : 3847.6/32

All:  $-0.072 \pm 0.003$   $\chi^2/\text{NDF}$ : 5875.8/62

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -33.993 $\pm$ 0.281  $\chi^2/\text{NDF}$ :746.7/13

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

Left In: -31.902 $\pm$ 0.282  $\chi^2/\text{NDF}$ :432.9/12

Left: -32.952 $\pm$ 0.199  $\chi^2/\text{NDF}$ : 1207.2/26

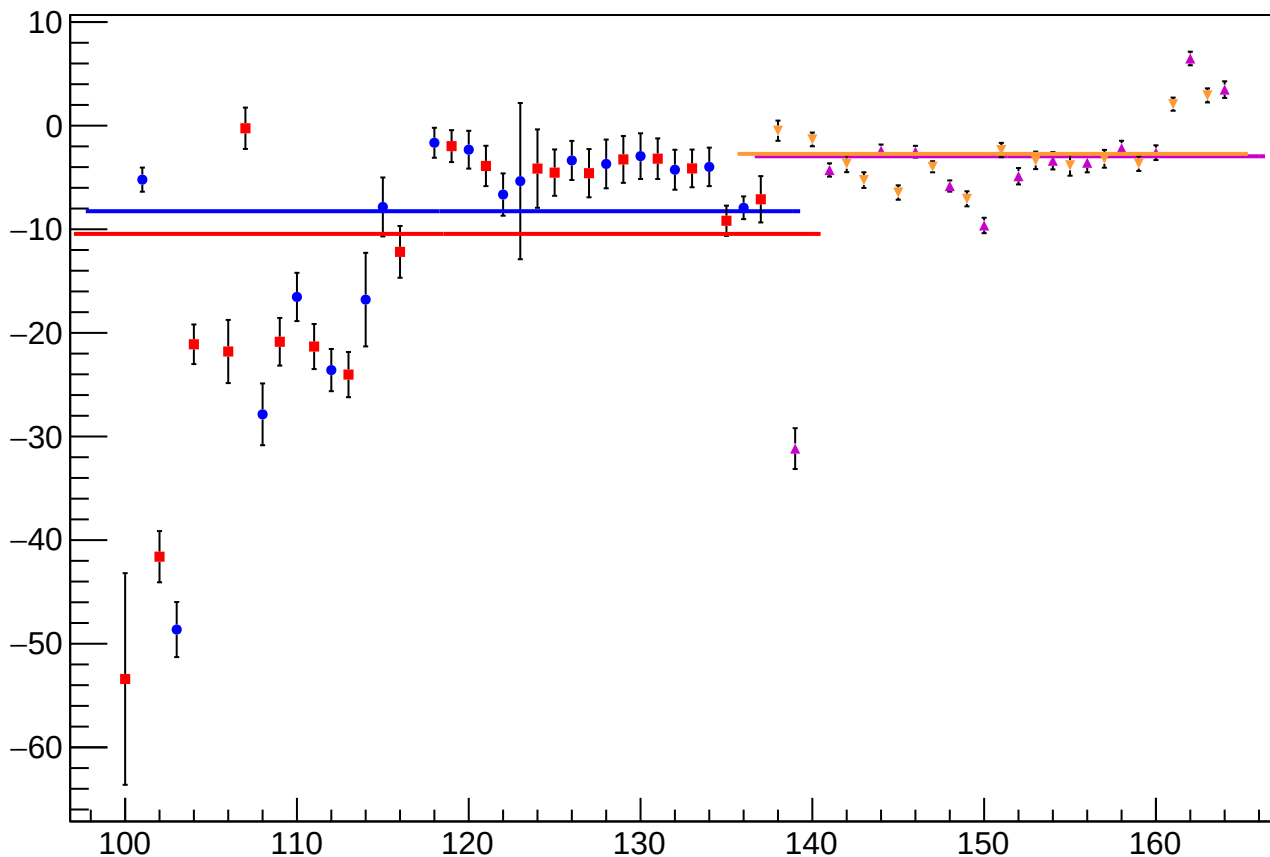
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.902 $\pm$ 0.282  $\chi^2/\text{NDF}$ :432.9/12

Out: -33.993 $\pm$ 0.281  $\chi^2/\text{NDF}$ :746.7/13

All: -32.952 $\pm$ 0.199  $\chi^2/\text{NDF}$ : 1207.2/26

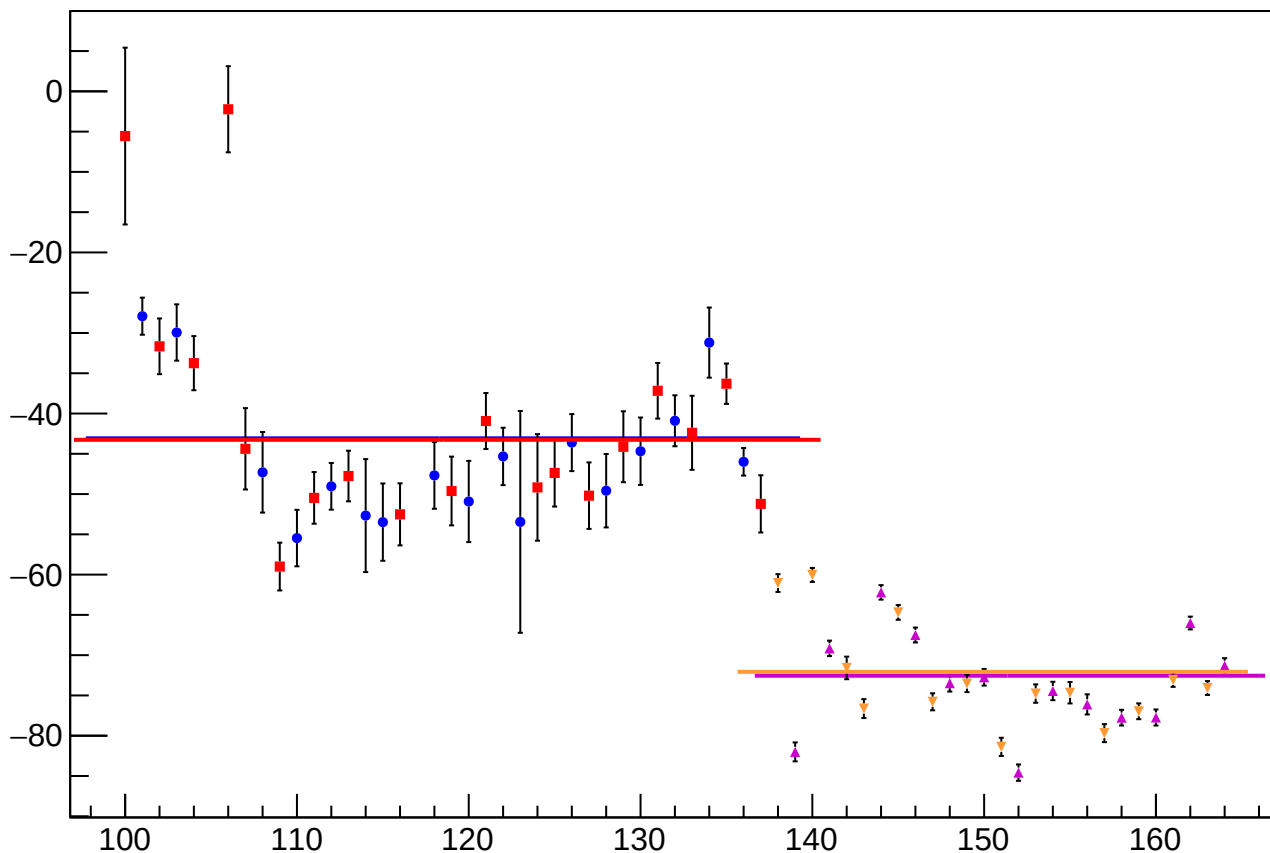
reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-8.257 \pm 0.462$   $\chi^2/\text{NDF}: 412.1/16$   
 Left Out:  $-2.721 \pm 0.195$   $\chi^2/\text{NDF}: 222.6/13$   
 Right Out:  $-10.446 \pm 0.491$   $\chi^2/\text{NDF}: 428.4/18$   
 Left In:  $-2.957 \pm 0.197$   $\chi^2/\text{NDF}: 597.2/12$

Left:  $-2.837 \pm 0.138$   $\chi^2/\text{NDF}: 820.4/26$   
 Right:  $-9.285 \pm 0.337$   $\chi^2/\text{NDF}: 851.1/35$   
 In:  $-3.772 \pm 0.181$   $\chi^2/\text{NDF}: 1120.6/29$   
 Out:  $-3.769 \pm 0.181$   $\chi^2/\text{NDF}: 864.7/32$   
 All:  $-3.771 \pm 0.128$   $\chi^2/\text{NDF}: 1985.3/62$

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:  $-72.068 \pm 0.277$   $\chi^2/\text{NDF}: 541.4/13$

Right Out:  $-43.262 \pm 0.866$   $\chi^2/\text{NDF}: 154.2/18$

Left In:  $-72.550 \pm 0.275$   $\chi^2/\text{NDF}: 517.0/12$

Left:  $-72.311 \pm 0.195$   $\chi^2/\text{NDF}: 1059.9/26$

Right:  $-43.169 \pm 0.601$   $\chi^2/\text{NDF}: 253.4/35$

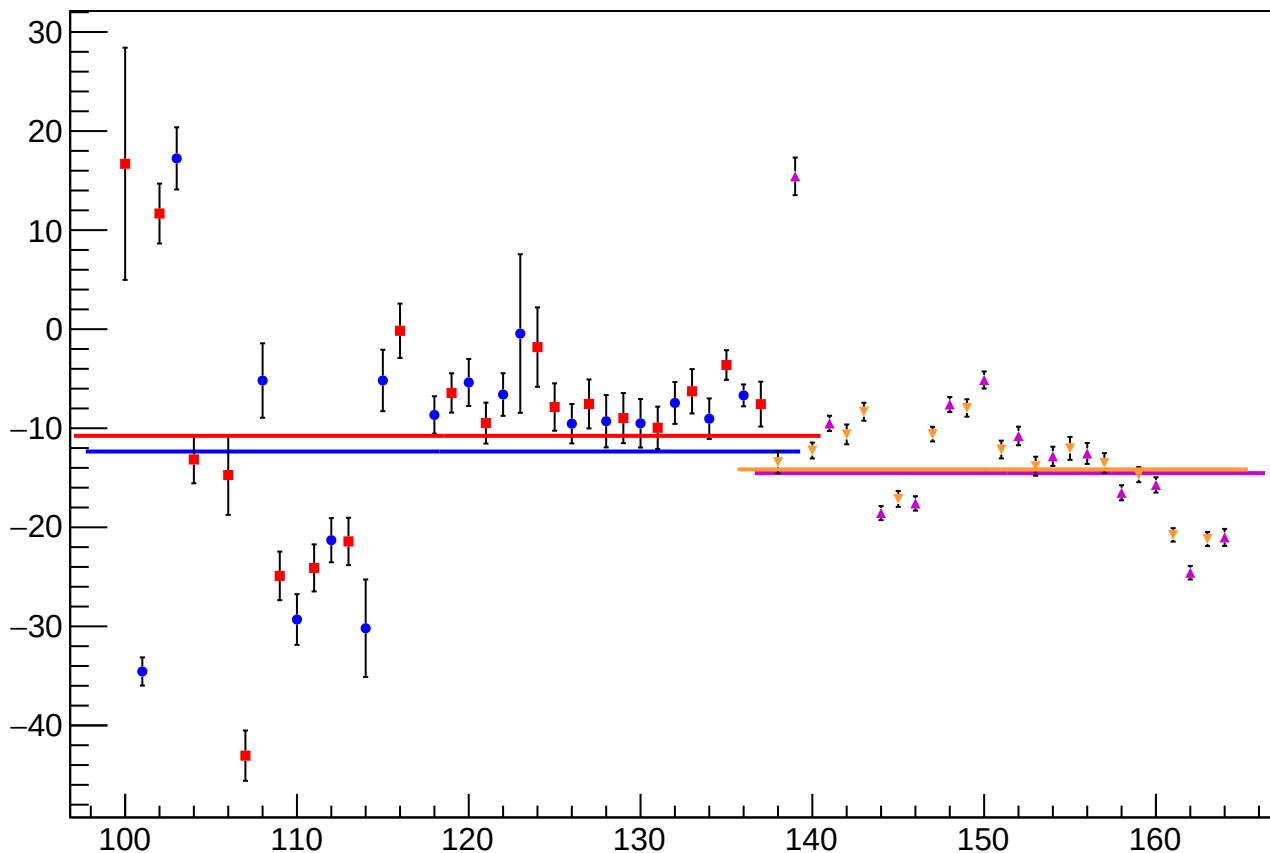
In:  $-69.658 \pm 0.261$   $\chi^2/\text{NDF}: 1741.4/29$

Out:  $-69.389 \pm 0.264$   $\chi^2/\text{NDF}: 1698.1/32$

All:  $-69.525 \pm 0.186$   $\chi^2/\text{NDF}: 3440.0/62$



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:  $-14.153 \pm 0.228$   $\chi^2/\text{NDF}: 347.9/13$

Right Out:  $-10.765 \pm 0.554$   $\chi^2/\text{NDF}: 366.6/18$

Left In:  $-14.533 \pm 0.230$   $\chi^2/\text{NDF}: 847.7/12$

Left:  $-14.341 \pm 0.162$   $\chi^2/\text{NDF}: 1196.9/26$

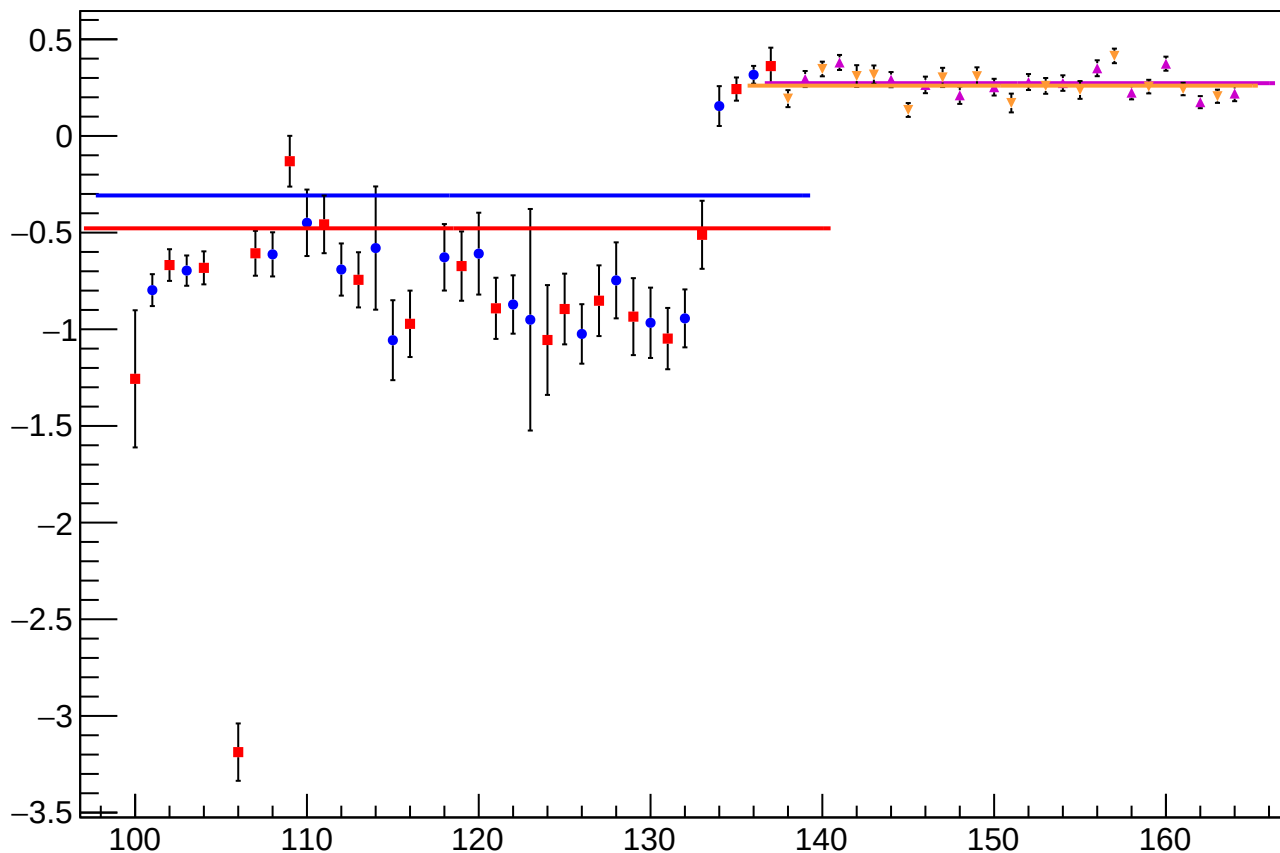
Right:  $-11.606 \pm 0.379$   $\chi^2/\text{NDF}: 846.9/35$

In:  $-14.175 \pm 0.210$   $\chi^2/\text{NDF}: 1338.4/29$

Out:  $-13.661 \pm 0.211$   $\chi^2/\text{NDF}: 746.5/32$

All:  $-13.919 \pm 0.149$   $\chi^2/\text{NDF}: 2087.9/62$

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:  $0.260 \pm 0.011$   $\chi^2/\text{NDF}$ : 47.1/13

Right Out:  $-0.478 \pm 0.029$   $\chi^2/\text{NDF}$ : 631.2/18

Left In:  $0.273 \pm 0.011$   $\chi^2/\text{NDF}$ : 35.1/12

Left:  $0.267 \pm 0.008$   $\chi^2/\text{NDF}$ : 82.9/26

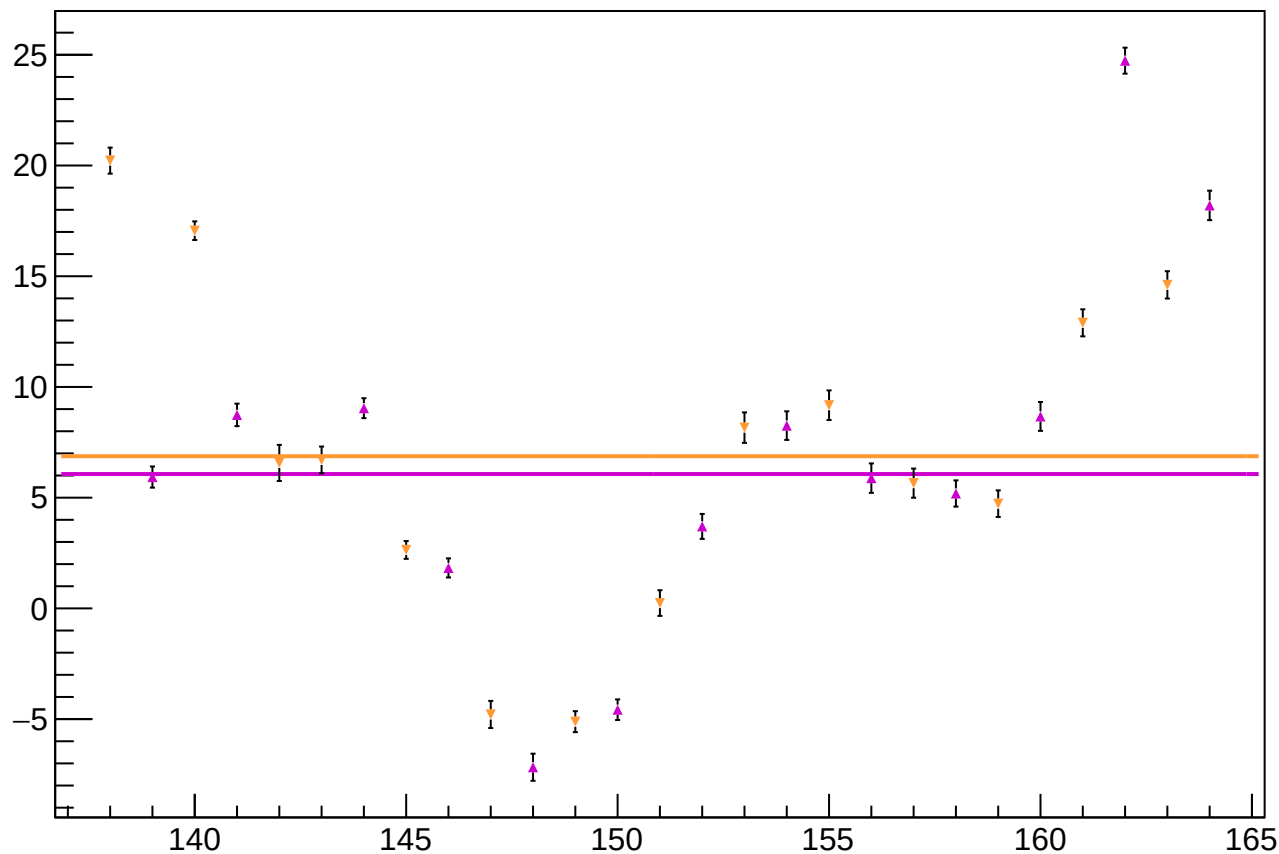
Right:  $-0.390 \pm 0.020$   $\chi^2/\text{NDF}$ : 1022.0/35

In:  $0.195 \pm 0.010$   $\chi^2/\text{NDF}$ : 793.2/29

Out:  $0.166 \pm 0.010$   $\chi^2/\text{NDF}$ : 1262.5/32

All:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 2059.6/62

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 6.872+/-0.151  $\chi^2/\text{NDF}$ :2629.1/13

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

Left In: 6.066+/-0.151  $\chi^2/\text{NDF}$ :2550.4/12

Left: 6.468+/-0.107  $\chi^2/\text{NDF}$ : 5193.8/26

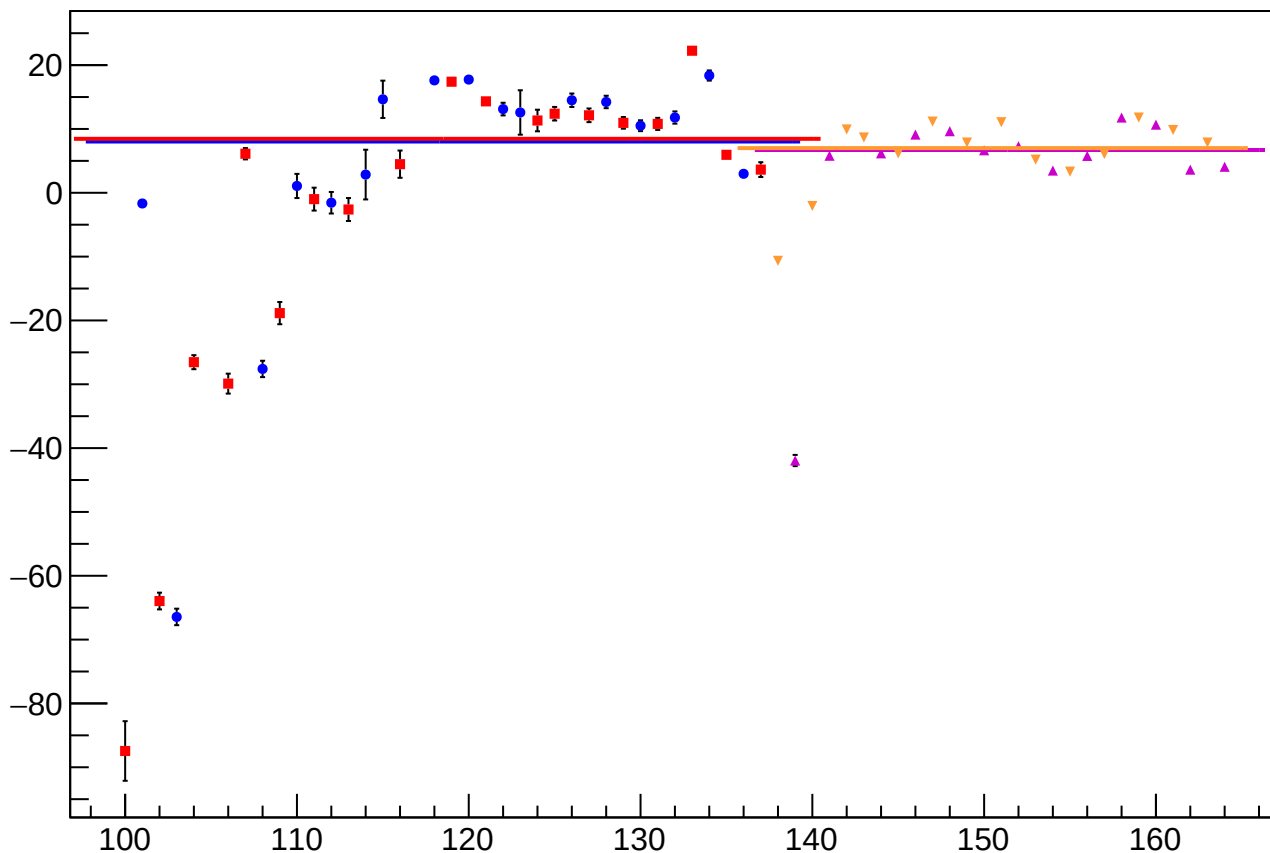
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6.066+/-0.151  $\chi^2/\text{NDF}$ :2550.4/12

Out: 6.872+/-0.151  $\chi^2/\text{NDF}$ :2629.1/13

All: 6.468+/-0.107  $\chi^2/\text{NDF}$ : 5193.8/26

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: 6.998 $\pm$ 0.106  $\chi^2$ /NDF: 2211.4/13

Right Out: 8.454 $\pm$ 0.213  $\chi^2$ /NDF: 6704.4/18

Left In: 6.702 $\pm$ 0.107  $\chi^2$ /NDF: 3603.5/12

Left: 6.852 $\pm$ 0.075  $\chi^2$ /NDF: 5818.8/26

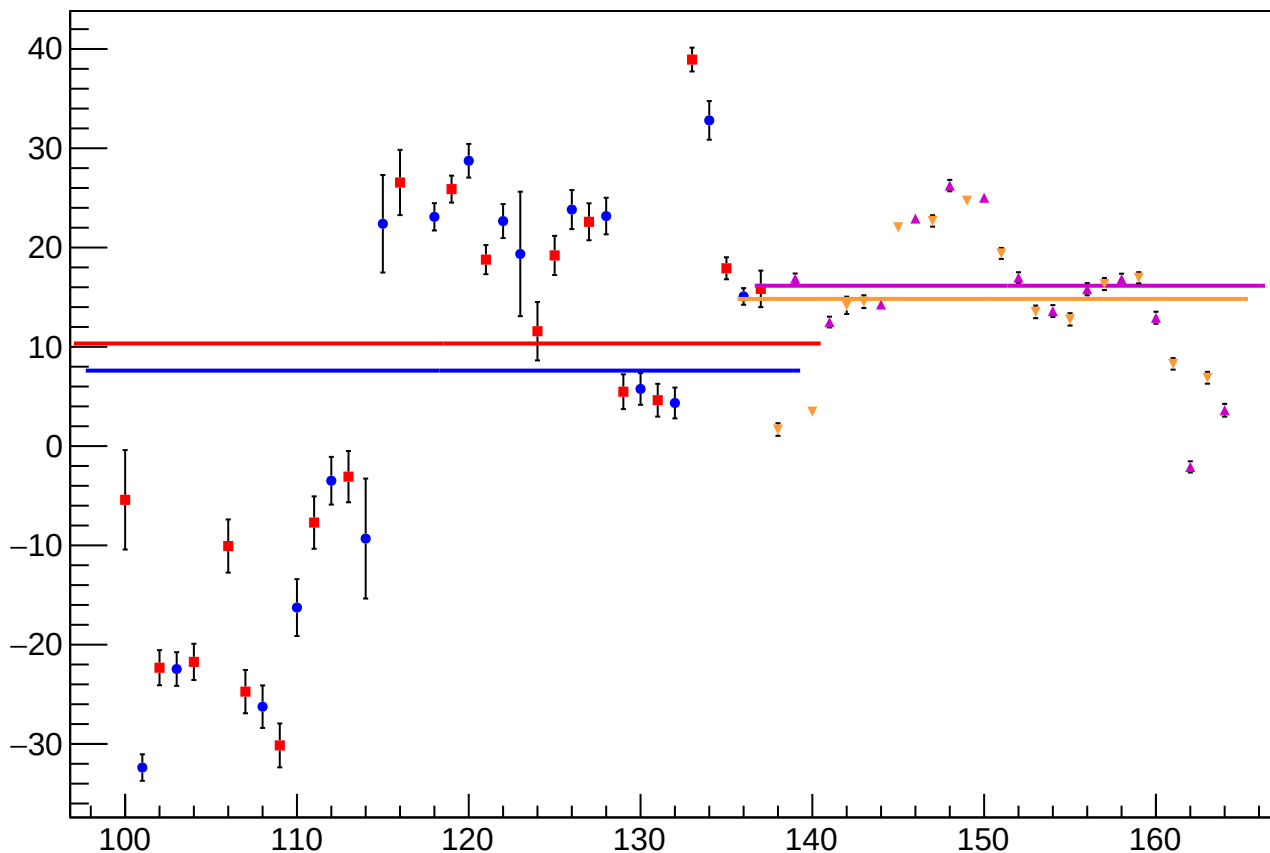
Right: 8.247 $\pm$ 0.151  $\chi^2$ /NDF: 12075.7/35

In: 6.967 $\pm$ 0.096  $\chi^2$ /NDF: 9003.7/29

Out: 7.284 $\pm$ 0.095  $\chi^2$ /NDF: 8953.2/32

All: 7.128 $\pm$ 0.067  $\chi^2$ /NDF: 17962.5/62

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $7.604 \pm 0.416$   $\chi^2/\text{NDF}$ : 2325.0/16

Left Out:  $14.826 \pm 0.149$   $\chi^2/\text{NDF}$ : 2449.2/13

Right Out:  $10.337 \pm 0.416$   $\chi^2/\text{NDF}$ : 2281.8/18

Left In:  $16.154 \pm 0.147$   $\chi^2/\text{NDF}$ : 2521.4/12

Left:  $15.499 \pm 0.105$   $\chi^2/\text{NDF}$ : 5010.6/26

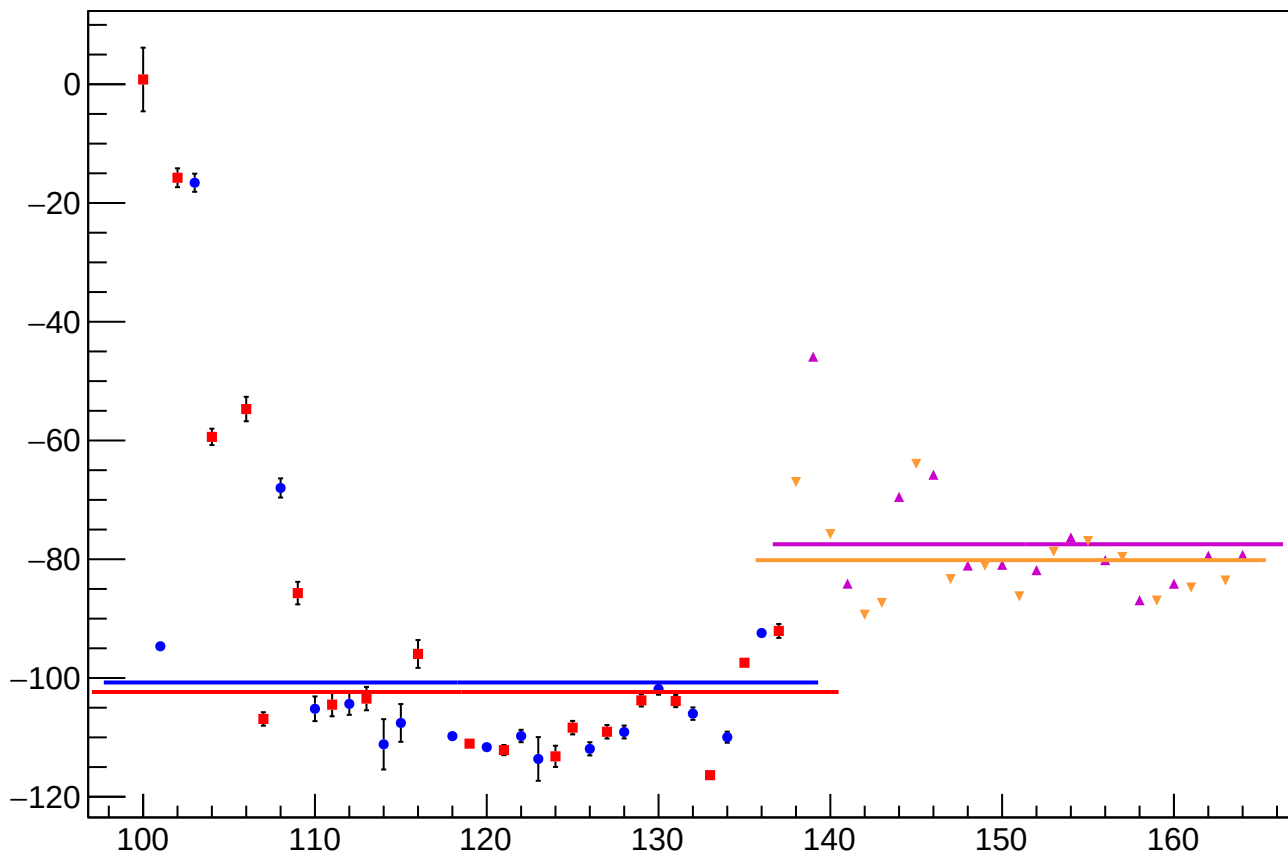
Right:  $8.969 \pm 0.294$   $\chi^2/\text{NDF}$ : 4628.4/35

In:  $15.200 \pm 0.139$   $\chi^2/\text{NDF}$ : 5222.1/29

Out:  $14.315 \pm 0.141$   $\chi^2/\text{NDF}$ : 4833.9/32

All:  $14.763 \pm 0.099$   $\chi^2/\text{NDF}$ : 10076.1/62

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:  $-80.150 \pm 0.124$   $\chi^2/\text{NDF}: 3437.3/13$

Right Out:  $-102.354 \pm 0.246$   $\chi^2/\text{NDF}: 6078.9/18$

Left In:  $-77.472 \pm 0.125$   $\chi^2/\text{NDF}: 4195.5/12$

Left:  $-78.821 \pm 0.088$   $\chi^2/\text{NDF}: 7862.8/26$

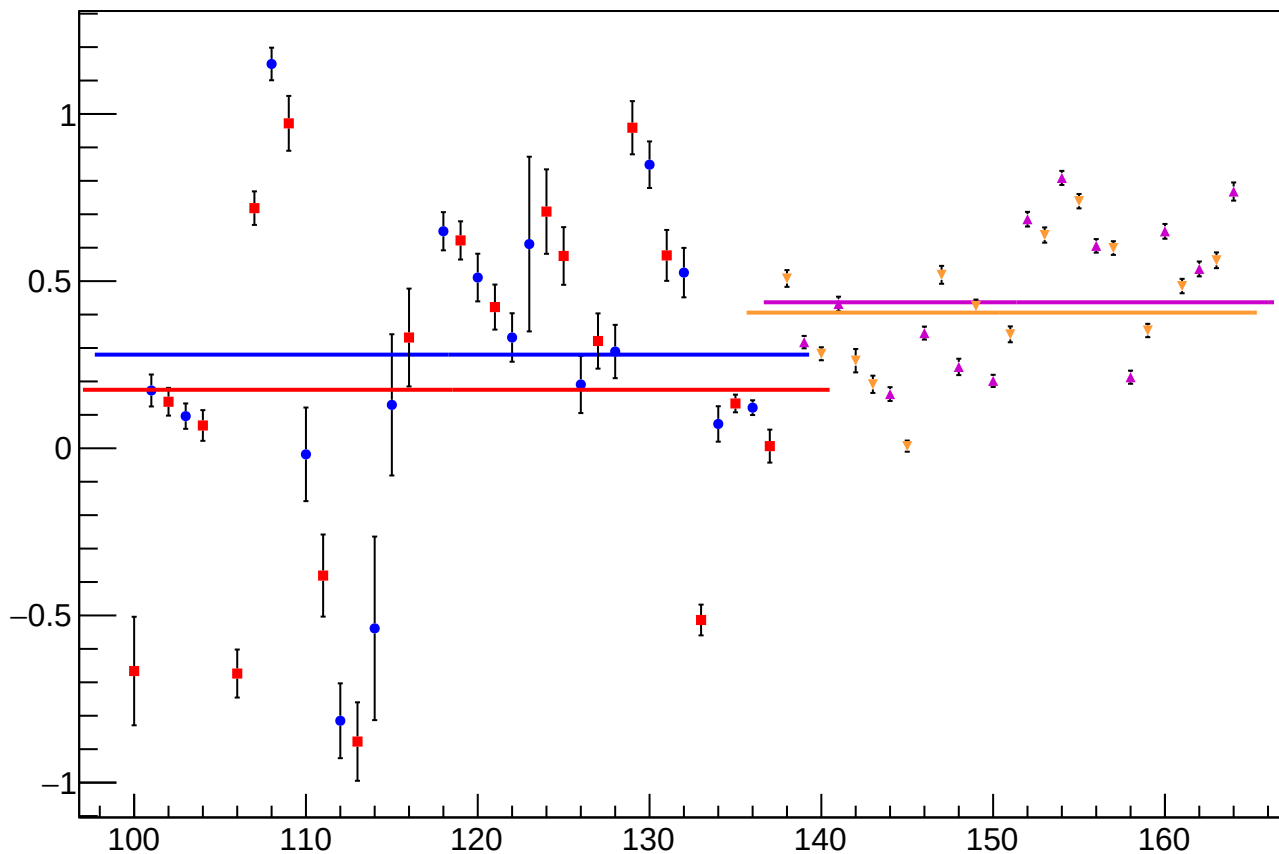
Right:  $-101.559 \pm 0.175$   $\chi^2/\text{NDF}: 10622.5/35$

In:  $-82.205 \pm 0.112$   $\chi^2/\text{NDF}: 15738.5/29$

Out:  $-84.665 \pm 0.111$   $\chi^2/\text{NDF}: 15994.4/32$

All:  $-83.444 \pm 0.079$   $\chi^2/\text{NDF}: 31976.6/62$

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:  $0.406 \pm 0.006$   $\chi^2/\text{NDF}$ : 1239.9/13

Right Out:  $0.175 \pm 0.013$   $\chi^2/\text{NDF}$ : 966.7/18

Left In:  $0.437 \pm 0.006$   $\chi^2/\text{NDF}$ : 1369.1/12

Left:  $0.421 \pm 0.004$   $\chi^2/\text{NDF}$ : 2622.9/26

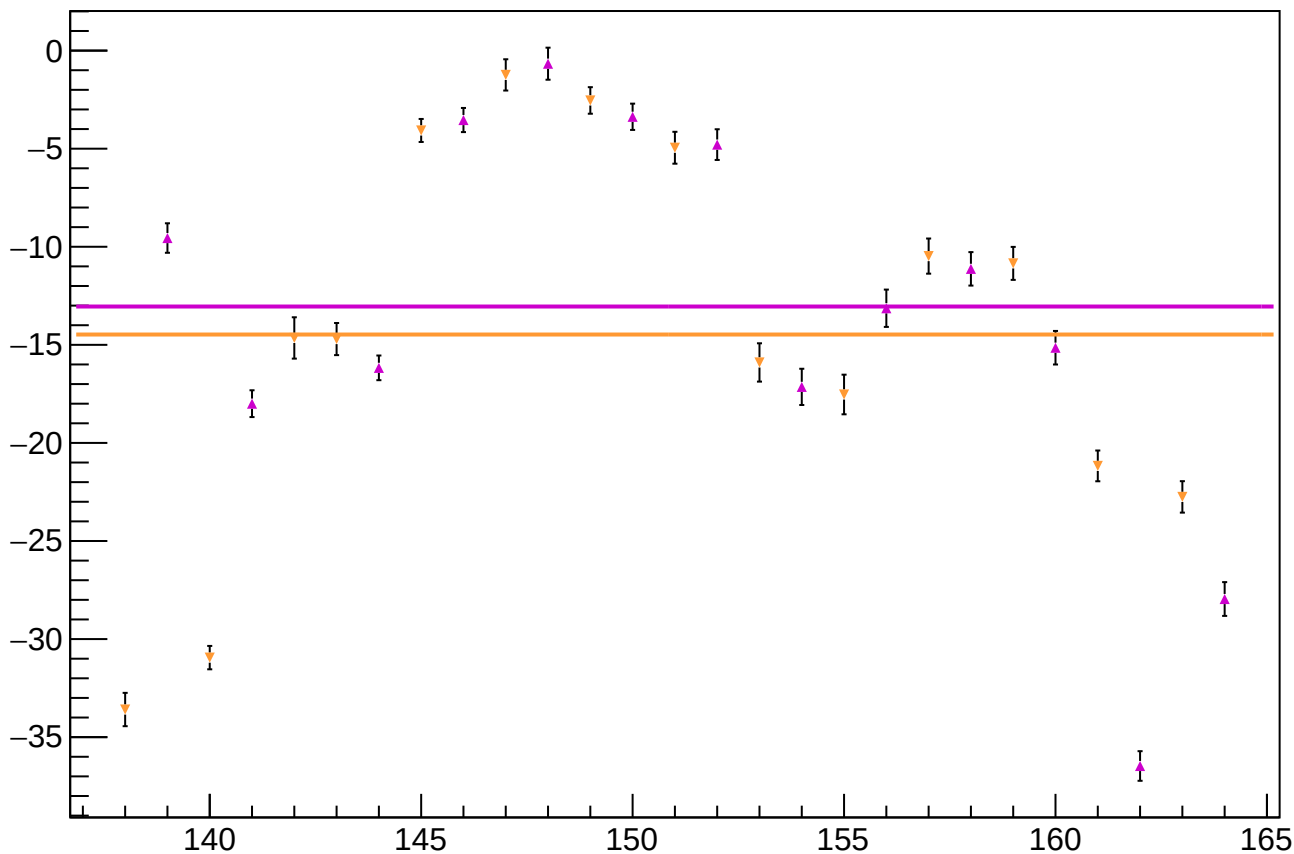
Right:  $0.227 \pm 0.010$   $\chi^2/\text{NDF}$ : 1653.2/35

In:  $0.412 \pm 0.005$   $\chi^2/\text{NDF}$ : 2138.9/29

Out:  $0.369 \pm 0.005$   $\chi^2/\text{NDF}$ : 2454.2/32

All:  $0.391 \pm 0.004$   $\chi^2/\text{NDF}$ : 4625.6/62

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -14.474+/-0.210  $\chi^2/\text{NDF}$ : 2538.1/13

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

Left In: -13.046+/-0.211  $\chi^2/\text{NDF}$ : 2179.9/12

Left: -13.762+/-0.149  $\chi^2/\text{NDF}$ : 4741.0/26

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

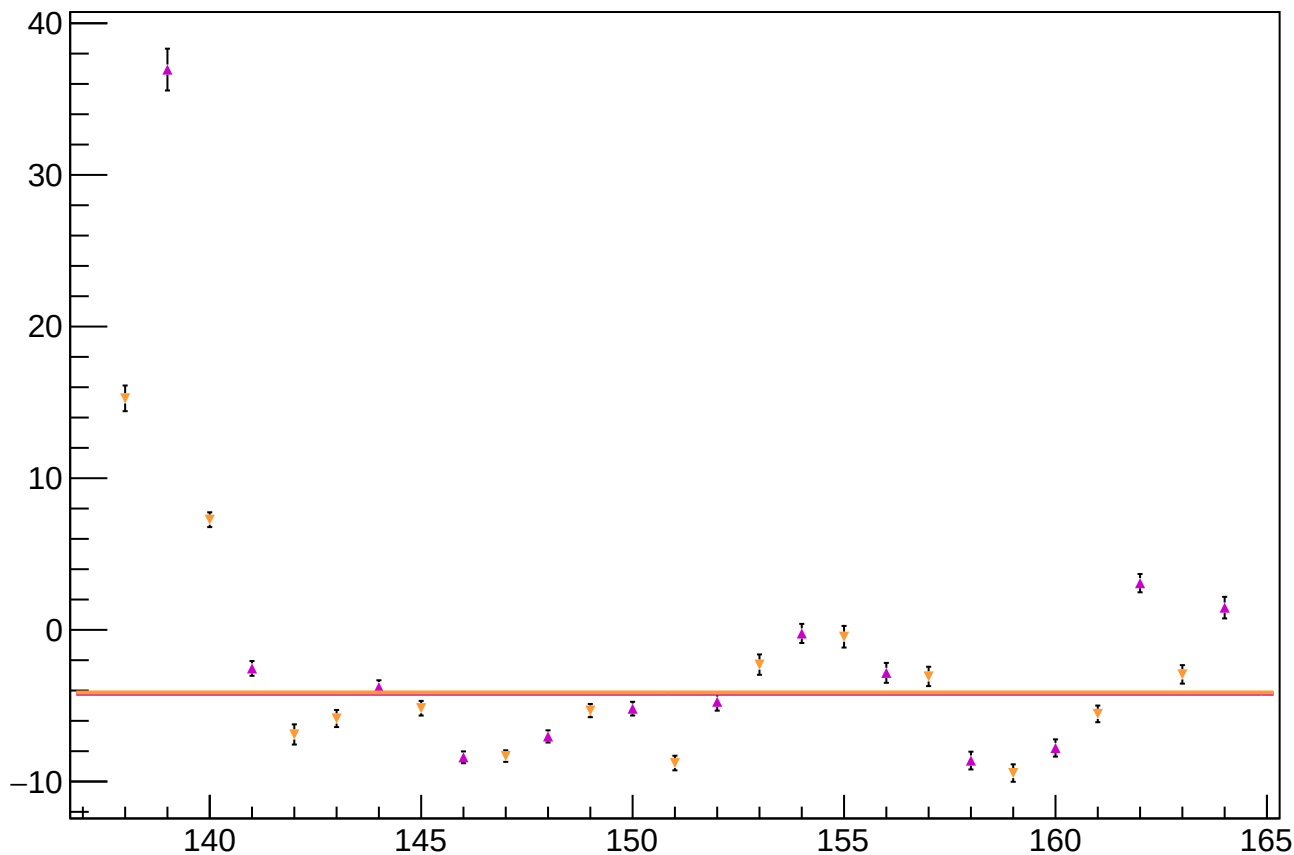
In: -13.046+/-0.211  $\chi^2/\text{NDF}$ : 2179.9/12

Out: -14.474+/-0.210  $\chi^2/\text{NDF}$ : 2538.1/13

All: -13.762+/-0.149  $\chi^2/\text{NDF}$ : 4741.0/26



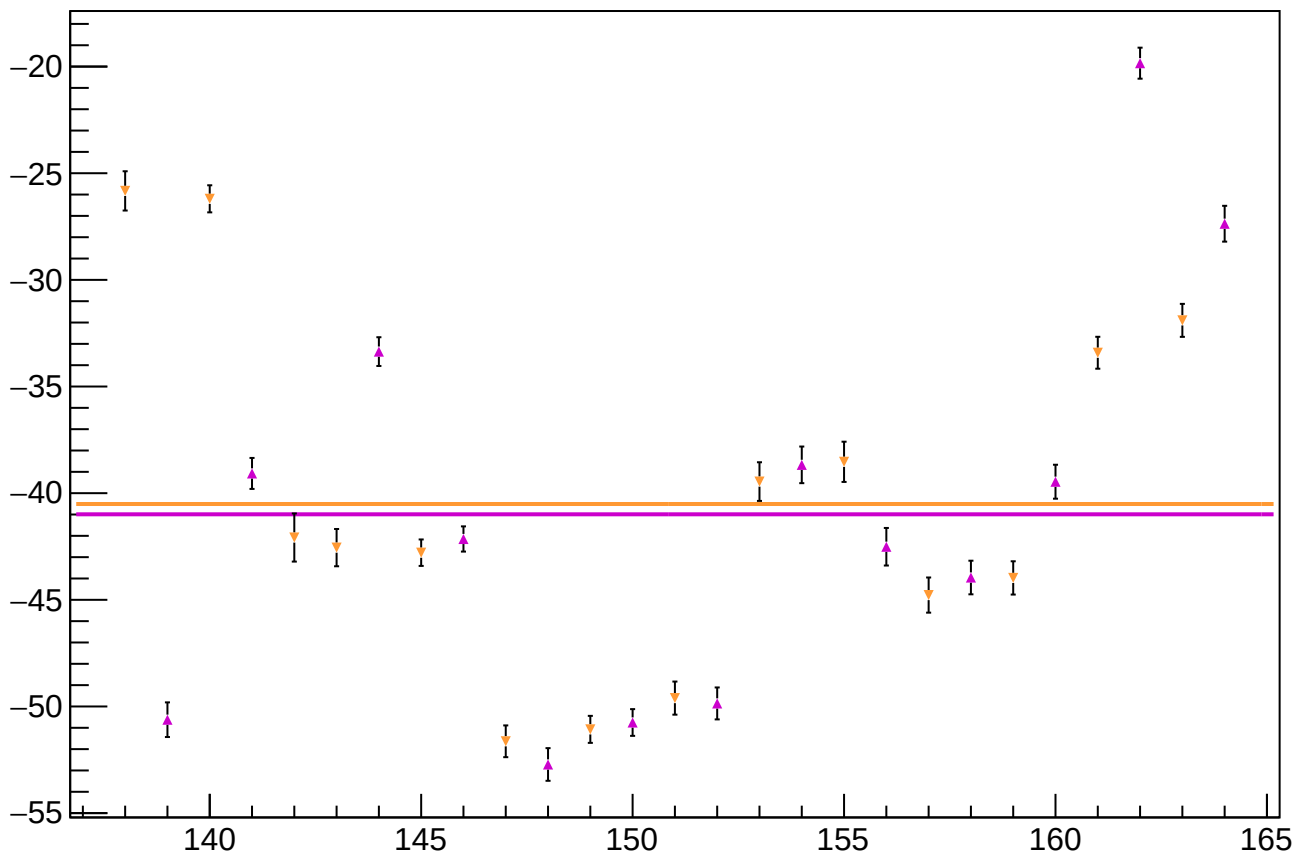
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.130+/-0.145     $\chi^2/\text{NDF}$ :1452.6/13  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.211+/-0.148     $\chi^2/\text{NDF}$ :1424.2/12

Left: -4.170+/-0.104     $\chi^2/\text{NDF}$ : 2876.9/26  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.211+/-0.148     $\chi^2/\text{NDF}$ :1424.2/12  
 Out: -4.130+/-0.145     $\chi^2/\text{NDF}$ :1452.6/13  
 All: -4.170+/-0.104     $\chi^2/\text{NDF}$ : 2876.9/26

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



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

Left Out: -40.508+/-0.207  $\chi^2/\text{NDF}$ :1688.5/13

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

Left In: -40.991+/-0.206  $\chi^2/\text{NDF}$ :2034.5/12

Left: -40.751+/-0.146  $\chi^2/\text{NDF}$ : 3725.8/26

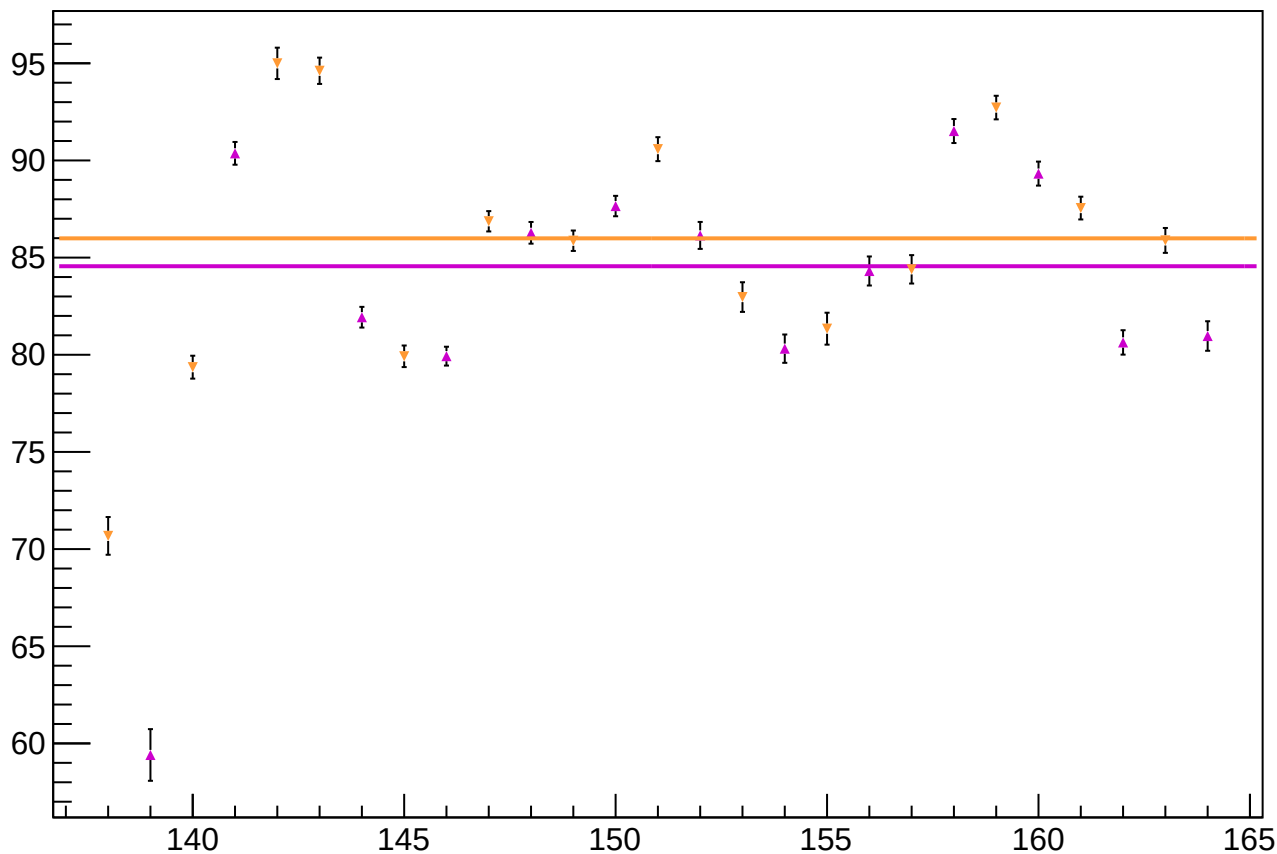
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.991+/-0.206  $\chi^2/\text{NDF}$ :2034.5/12

Out: -40.508+/-0.207  $\chi^2/\text{NDF}$ :1688.5/13

All: -40.751+/-0.146  $\chi^2/\text{NDF}$ : 3725.8/26

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: 85.991+/-0.172  $\chi^2/\text{NDF}$ :1022.1/13

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

Left In: 84.556+/-0.173  $\chi^2/\text{NDF}$ :902.7/12

Left: 85.280+/-0.122  $\chi^2/\text{NDF}$ : 1959.4/26

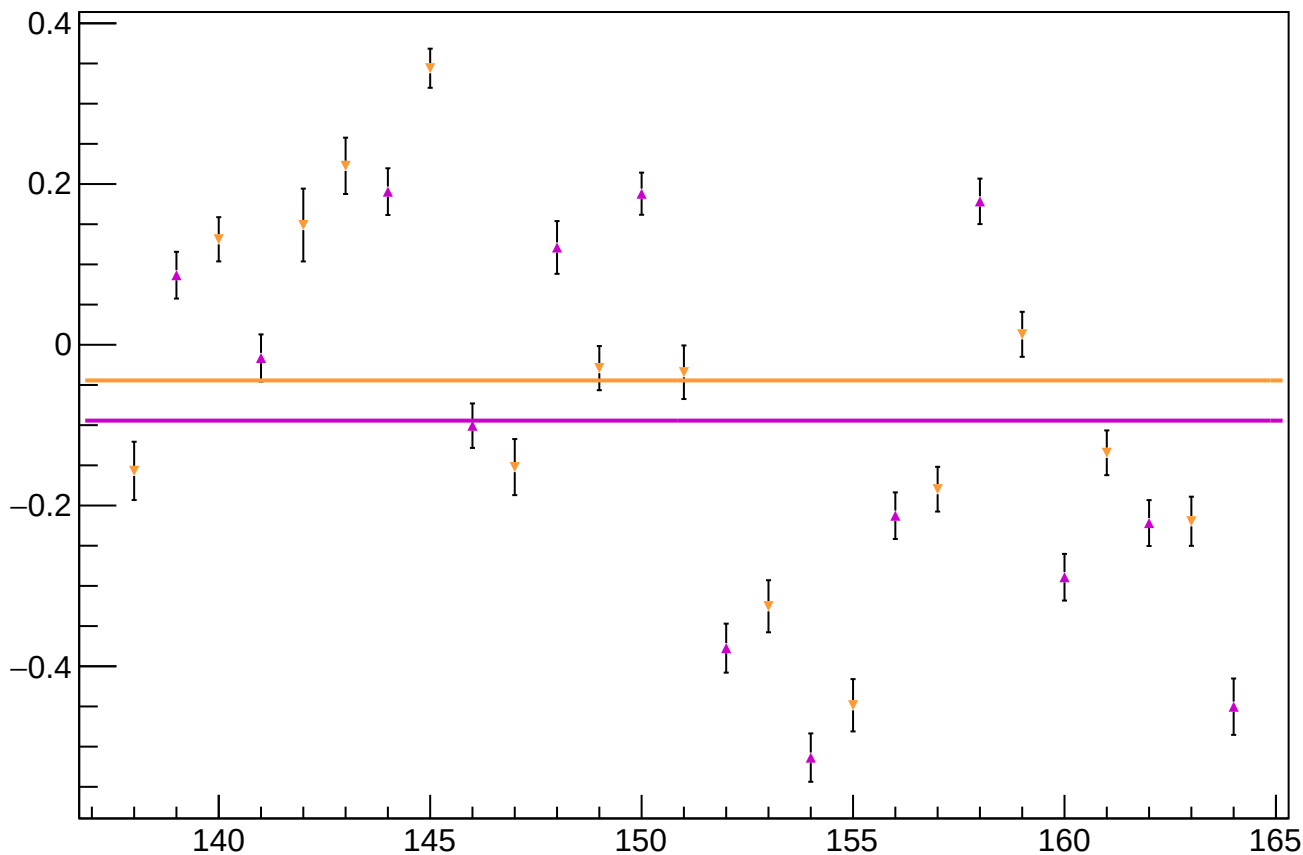
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 84.556+/-0.173  $\chi^2/\text{NDF}$ :902.7/12

Out: 85.991+/-0.172  $\chi^2/\text{NDF}$ :1022.1/13

All: 85.280+/-0.122  $\chi^2/\text{NDF}$ : 1959.4/26

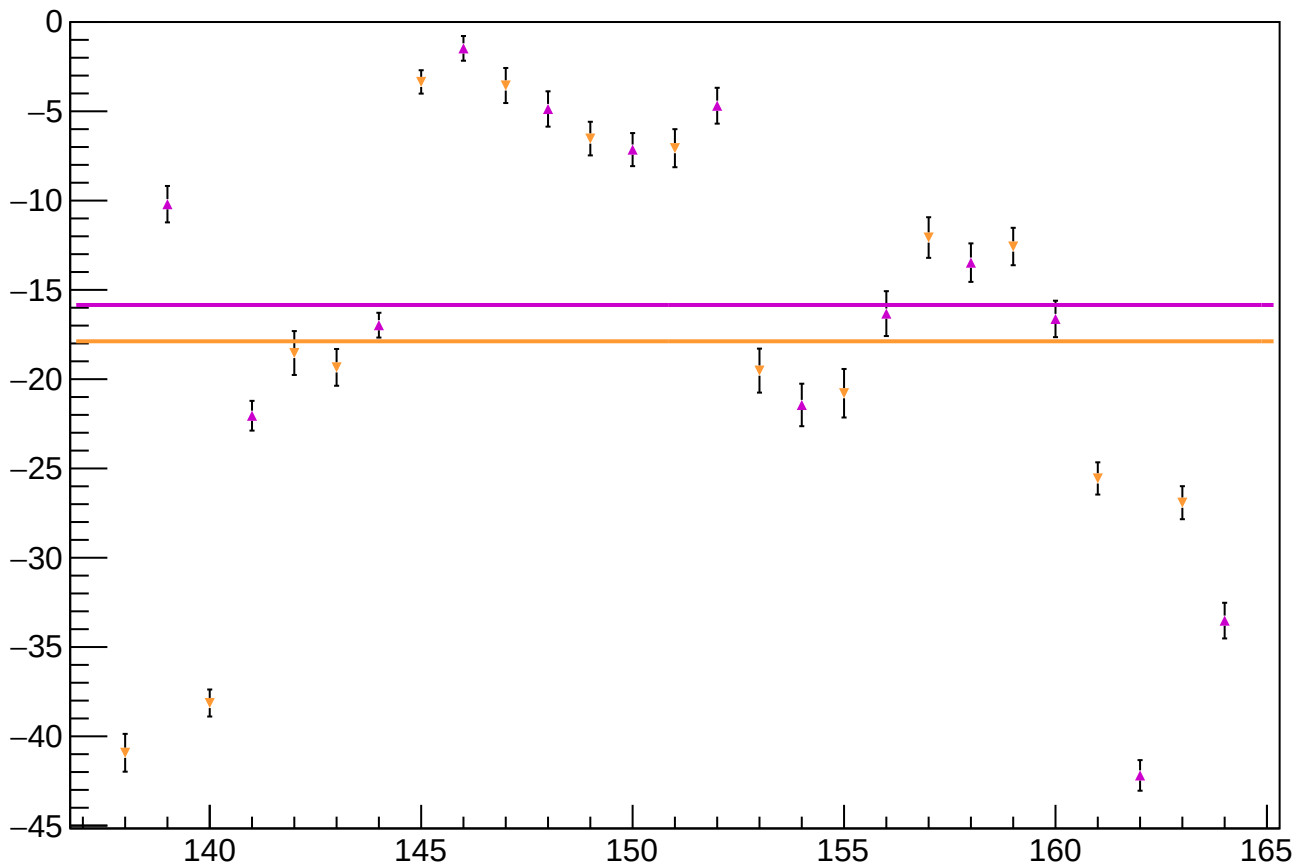
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-0.044 \pm 0.008$   $\chi^2/\text{NDF}$ : 691.9/13  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-0.094 \pm 0.008$   $\chi^2/\text{NDF}$ : 859.0/12

Left:  $-0.069 \pm 0.006$   $\chi^2/\text{NDF}$ : 1569.6/26  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $-0.094 \pm 0.008$   $\chi^2/\text{NDF}$ : 859.0/12  
 Out:  $-0.044 \pm 0.008$   $\chi^2/\text{NDF}$ : 691.9/13  
 All:  $-0.069 \pm 0.006$   $\chi^2/\text{NDF}$ : 1569.6/26

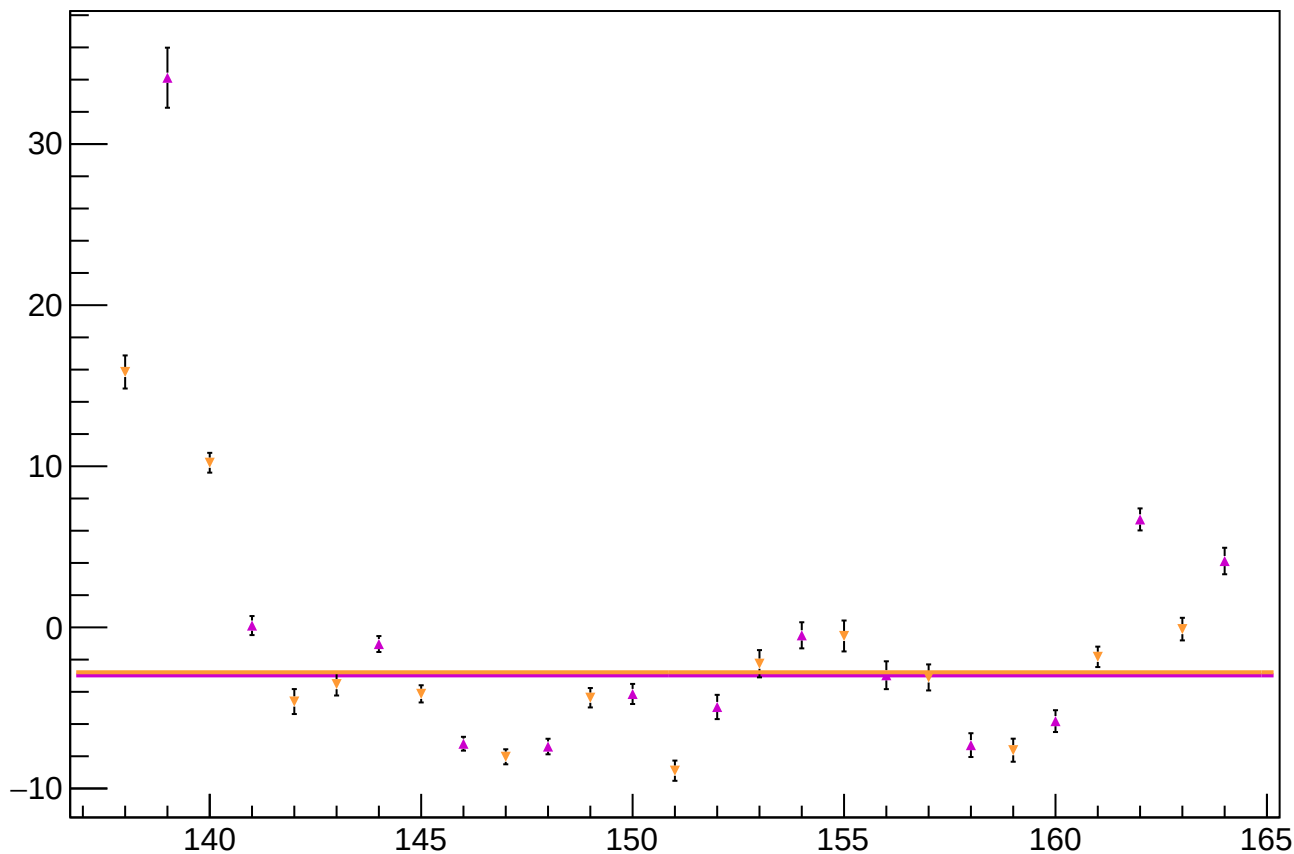
reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-17.879 \pm 0.259$   $\chi^2/\text{NDF}: 2371.7/13$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-15.845 \pm 0.256$   $\chi^2/\text{NDF}: 2139.9/12$

Left:  $-16.850 \pm 0.182$   $\chi^2/\text{NDF}: 4542.7/26$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-15.845 \pm 0.256$   $\chi^2/\text{NDF}: 2139.9/12$   
 Out:  $-17.879 \pm 0.259$   $\chi^2/\text{NDF}: 2371.7/13$   
 All:  $-16.850 \pm 0.182$   $\chi^2/\text{NDF}: 4542.7/26$

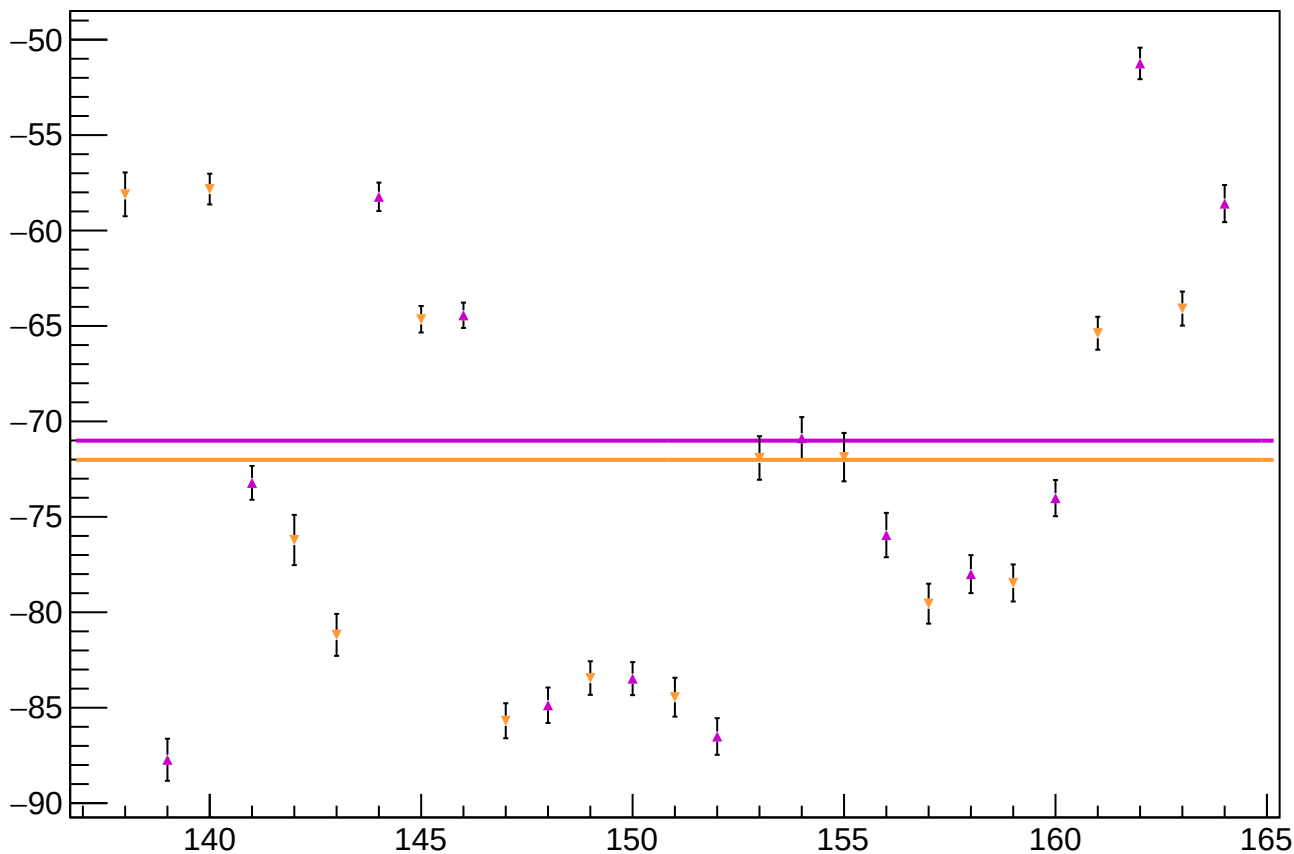
reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.786+/-0.179  $\chi^2/\text{NDF}$ :1086.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.981+/-0.177  $\chi^2/\text{NDF}$ :966.8/12

Left: -2.884+/-0.126  $\chi^2/\text{NDF}$ : 2054.4/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.981+/-0.177  $\chi^2/\text{NDF}$ :966.8/12  
 Out: -2.786+/-0.179  $\chi^2/\text{NDF}$ :1086.9/13  
 All: -2.884+/-0.126  $\chi^2/\text{NDF}$ : 2054.4/26

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: -72.014+/-0.257  $\chi^2/\text{NDF}$ :1423.0/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -71.008+/-0.250  $\chi^2/\text{NDF}$ :2133.7/12

Left: -71.498+/-0.179  $\chi^2/\text{NDF}$ : 3564.5/26

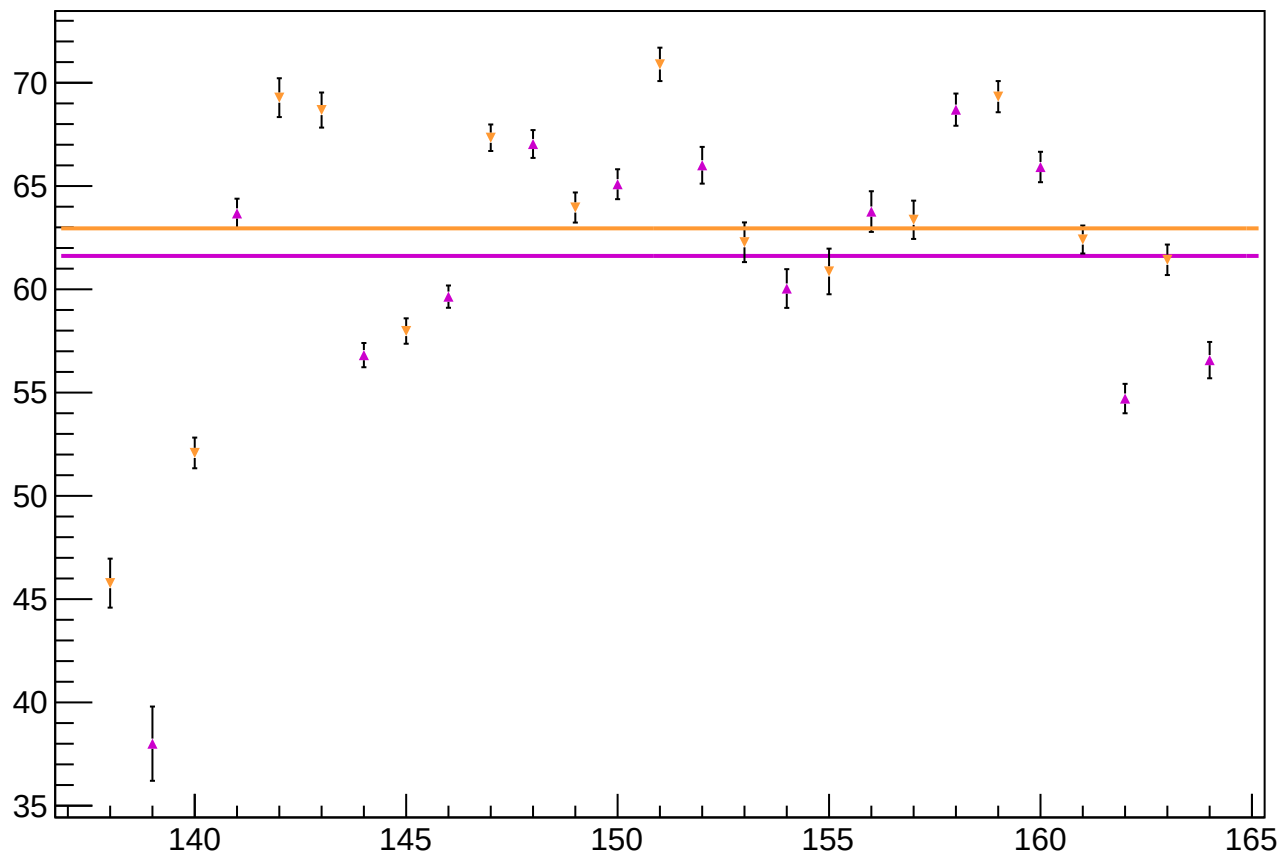
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -71.008+/-0.250  $\chi^2/\text{NDF}$ :2133.7/12

Out: -72.014+/-0.257  $\chi^2/\text{NDF}$ :1423.0/13

All: -71.498+/-0.179  $\chi^2/\text{NDF}$ : 3564.5/26

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

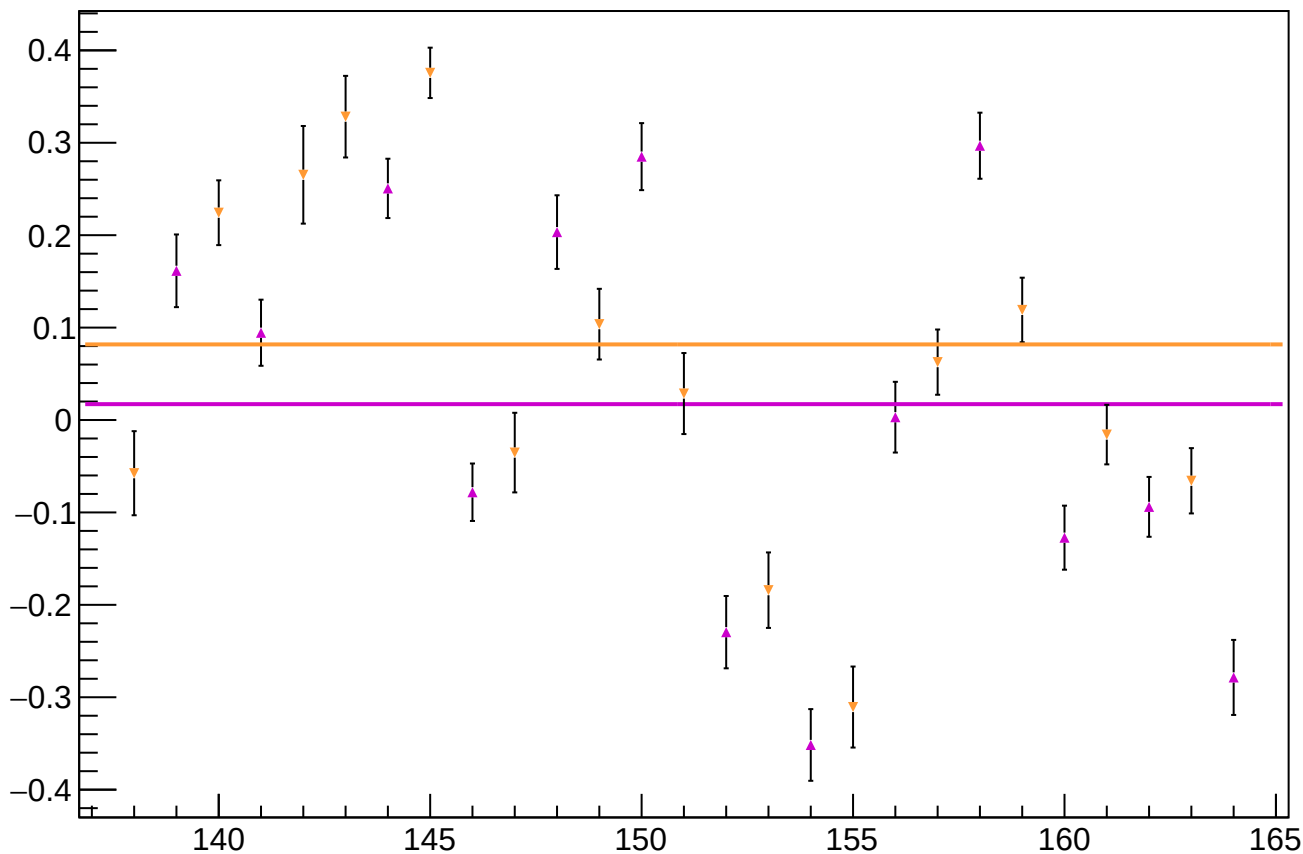


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 62.951+/-0.211  $\chi^2/\text{NDF}$ :805.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 61.616+/-0.209  $\chi^2/\text{NDF}$ :624.5/12

Left: 62.275+/-0.149  $\chi^2/\text{NDF}$ : 1450.4/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 61.616+/-0.209  $\chi^2/\text{NDF}$ :624.5/12  
 Out: 62.951+/-0.211  $\chi^2/\text{NDF}$ :805.7/13  
 All: 62.275+/-0.149  $\chi^2/\text{NDF}$ : 1450.4/26



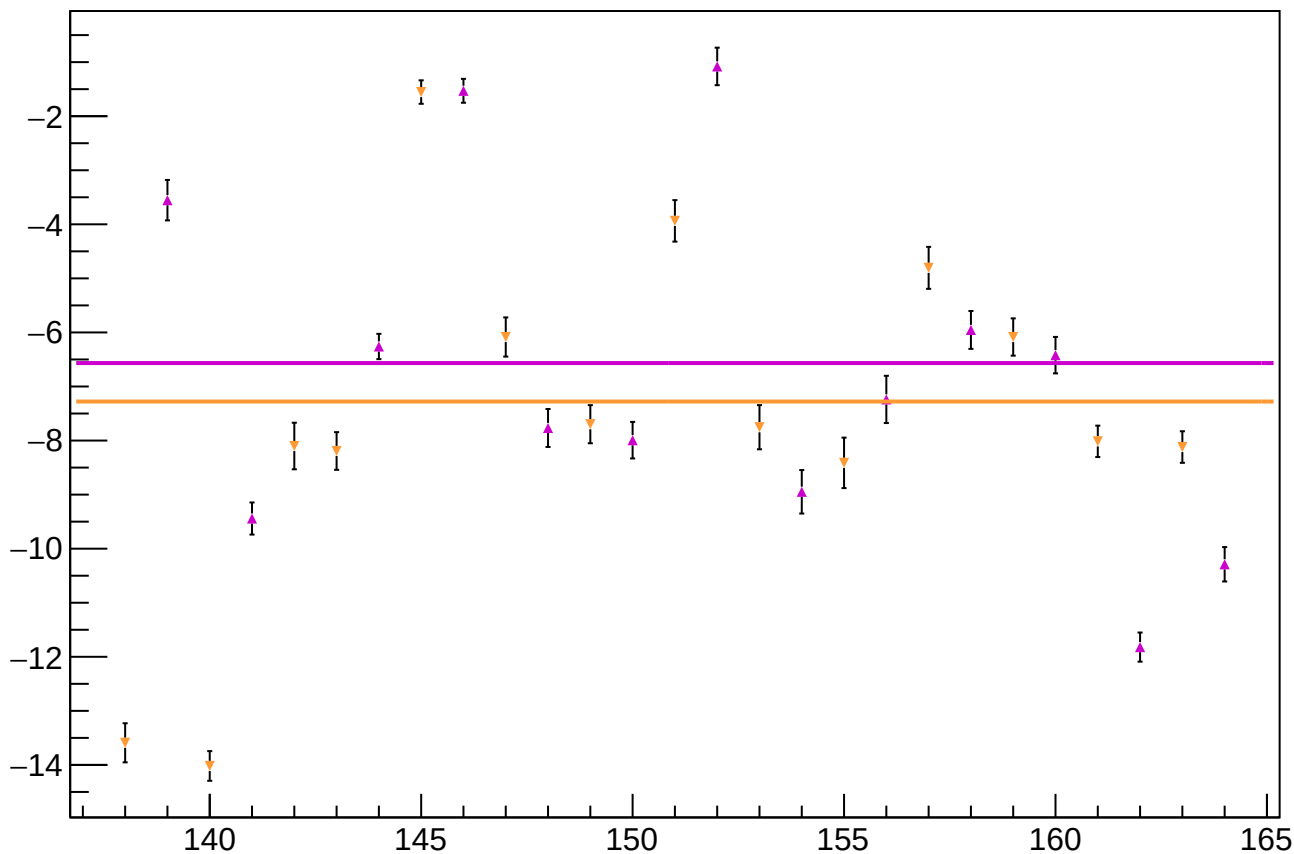
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.082 $\pm$ 0.010  $\chi^2$ /NDF:345.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.017 $\pm$ 0.010  $\chi^2$ /NDF:430.5/12

Left: 0.049 $\pm$ 0.007  $\chi^2$ /NDF: 796.3/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.017 $\pm$ 0.010  $\chi^2$ /NDF:430.5/12  
 Out: 0.082 $\pm$ 0.010  $\chi^2$ /NDF:345.2/13  
 All: 0.049 $\pm$ 0.007  $\chi^2$ /NDF: 796.3/26

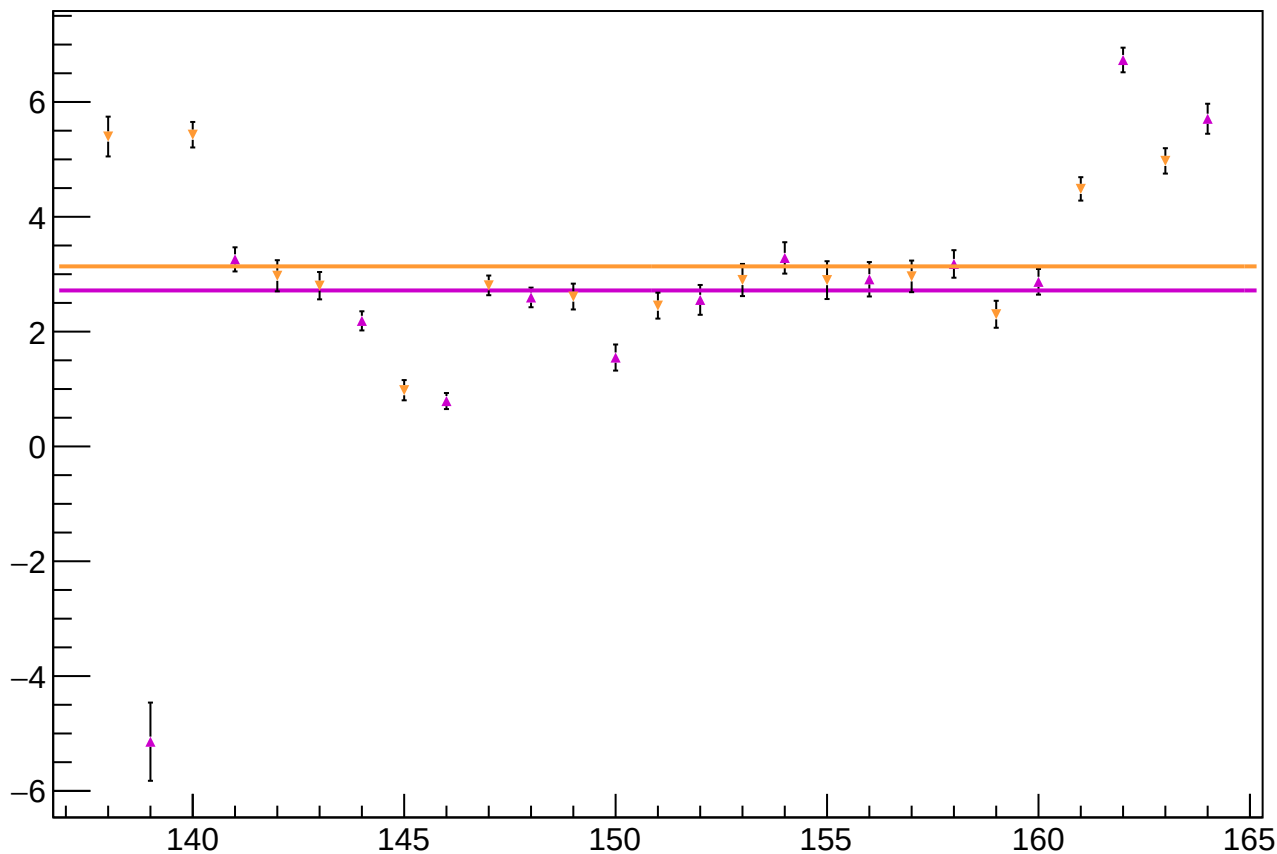
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -7.278 $\pm$ 0.089  $\chi^2$ /NDF:1776.4/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -6.567 $\pm$ 0.086  $\chi^2$ /NDF:1517.3/12

Left: -6.913 $\pm$ 0.062  $\chi^2$ /NDF: 3326.9/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -6.567 $\pm$ 0.086  $\chi^2$ /NDF:1517.3/12  
 Out: -7.278 $\pm$ 0.089  $\chi^2$ /NDF:1776.4/13  
 All: -6.913 $\pm$ 0.062  $\chi^2$ /NDF: 3326.9/26

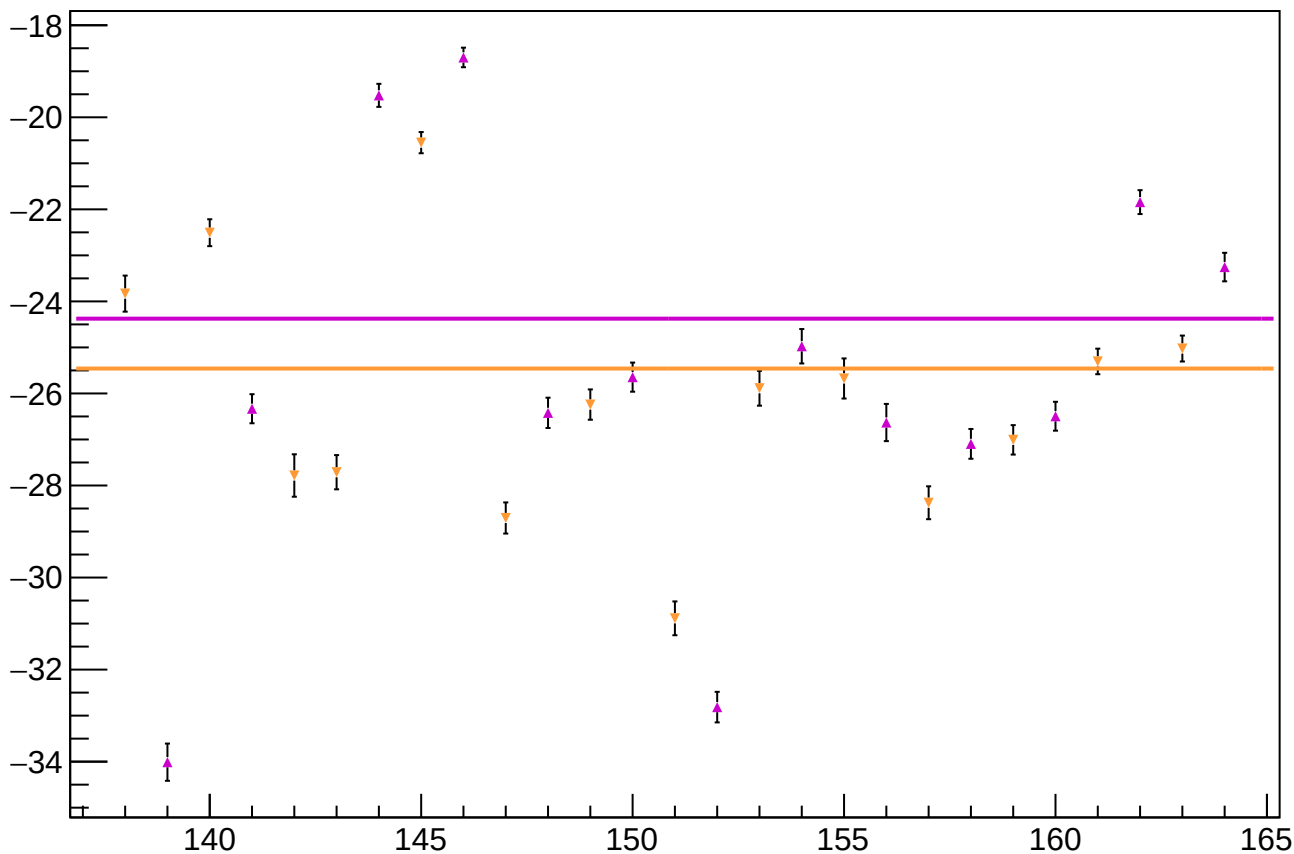
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.136+/-0.062  $\chi^2/\text{NDF}$ :446.5/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.717+/-0.060  $\chi^2/\text{NDF}$ :857.8/12

Left: 2.921+/-0.043  $\chi^2/\text{NDF}$ : 1328.1/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.717+/-0.060  $\chi^2/\text{NDF}$ :857.8/12  
 Out: 3.136+/-0.062  $\chi^2/\text{NDF}$ :446.5/13  
 All: 2.921+/-0.043  $\chi^2/\text{NDF}$ : 1328.1/26

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: -25.459+/-0.088  $\chi^2/\text{NDF}$ :1045.3/13

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

Left In: -24.375+/-0.084  $\chi^2/\text{NDF}$ :2653.1/12

Left: -24.895+/-0.061  $\chi^2/\text{NDF}$ : 3777.7/26

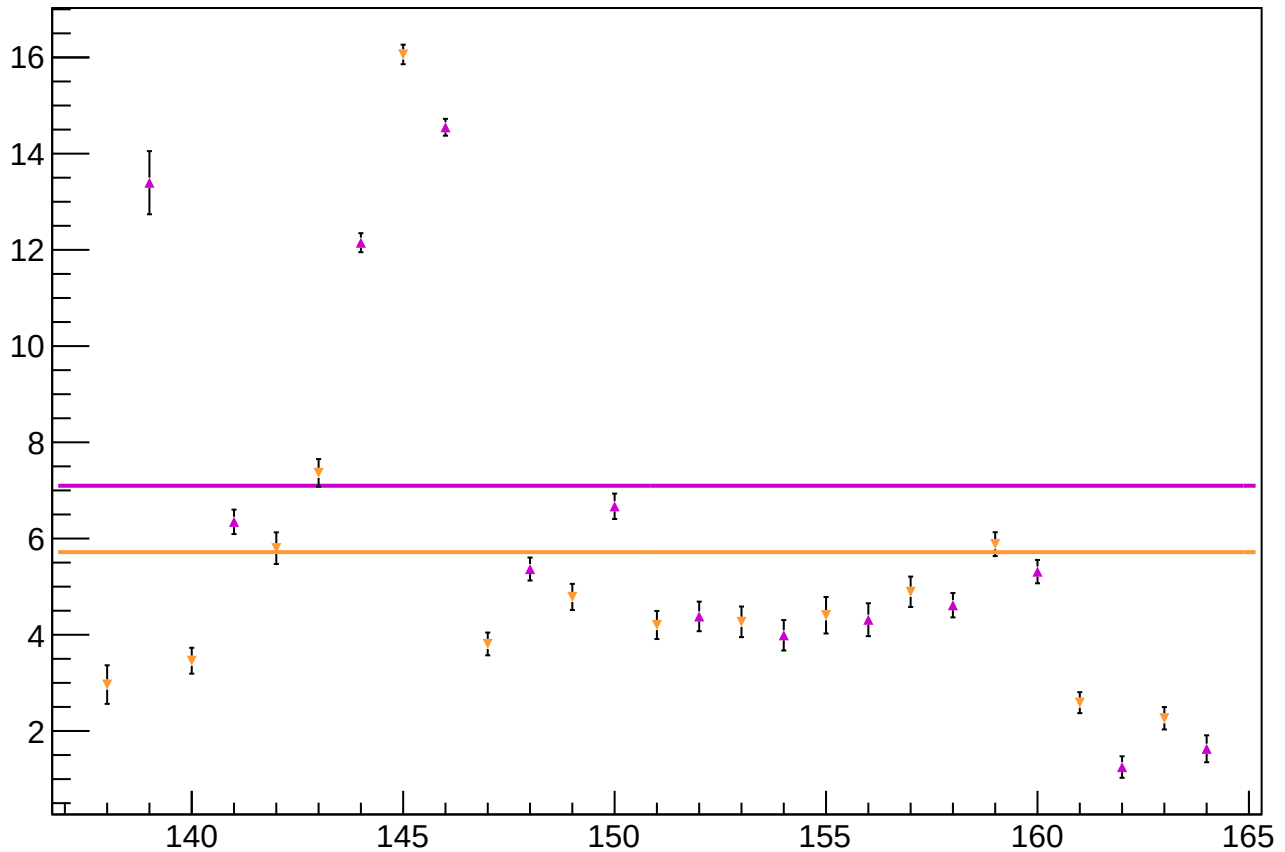
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -24.375+/-0.084  $\chi^2/\text{NDF}$ :2653.1/12

Out: -25.459+/-0.088  $\chi^2/\text{NDF}$ :1045.3/13

All: -24.895+/-0.061  $\chi^2/\text{NDF}$ : 3777.7/26

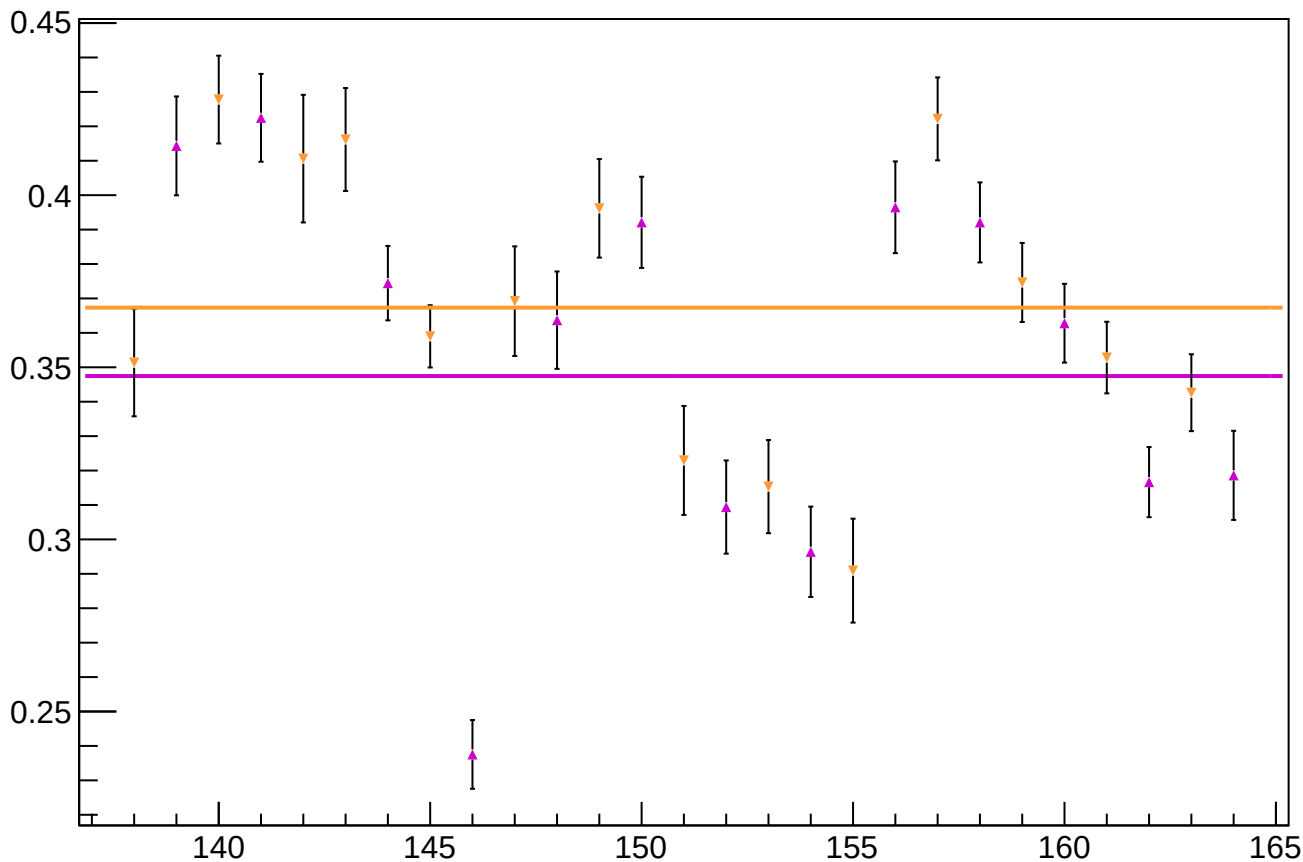
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.717+/-0.072  $\chi^2/\text{NDF}$ :3311.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.097+/-0.070  $\chi^2/\text{NDF}$ :4081.1/12

Left: 6.427+/-0.050  $\chi^2/\text{NDF}$ : 7579.9/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 7.097+/-0.070  $\chi^2/\text{NDF}$ :4081.1/12  
 Out: 5.717+/-0.072  $\chi^2/\text{NDF}$ :3311.4/13  
 All: 6.427+/-0.050  $\chi^2/\text{NDF}$ : 7579.9/26

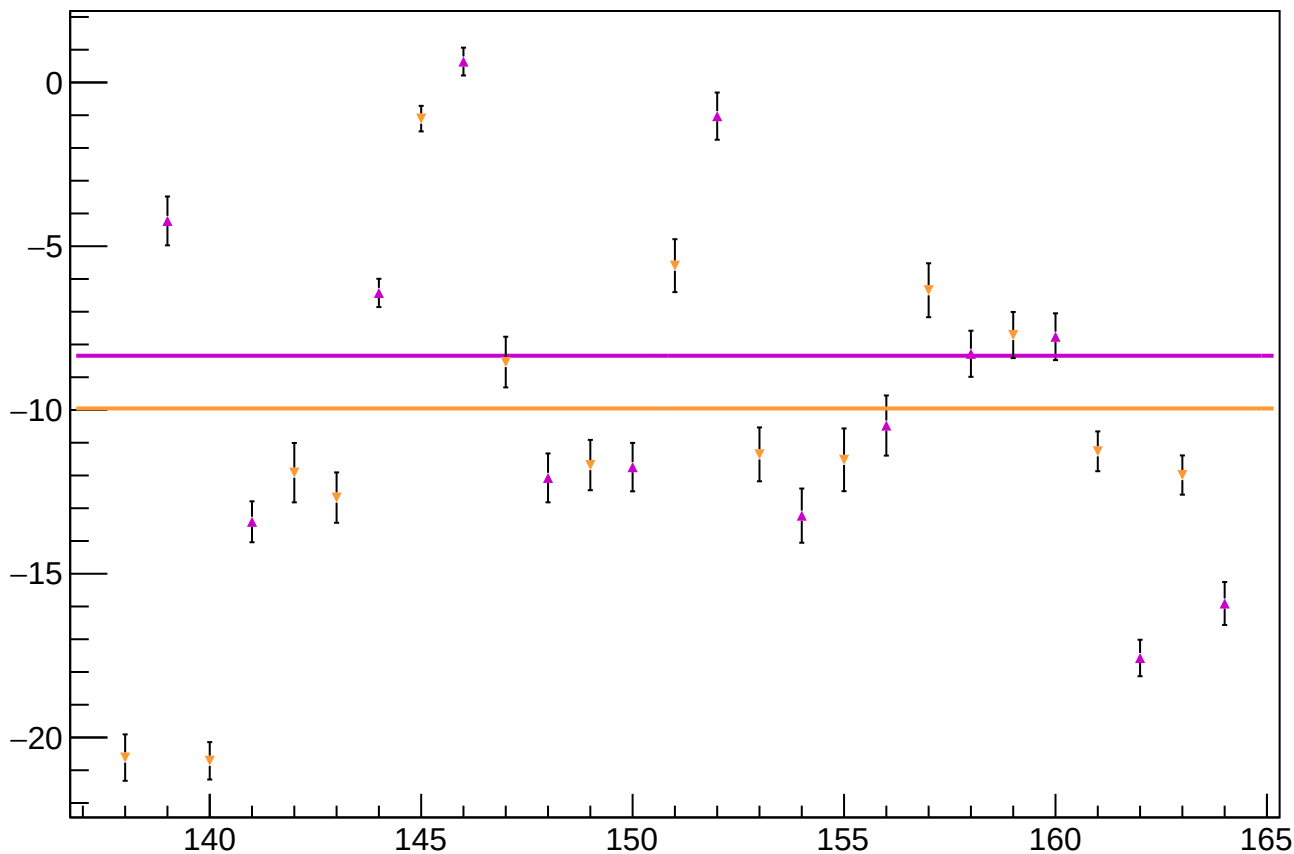
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.367 $\pm$ 0.003  $\chi^2$ /NDF:120.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.347 $\pm$ 0.003  $\chi^2$ /NDF:263.5/12

Left: 0.357 $\pm$ 0.002  $\chi^2$ /NDF: 401.3/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.347 $\pm$ 0.003  $\chi^2$ /NDF:263.5/12  
 Out: 0.367 $\pm$ 0.003  $\chi^2$ /NDF:120.8/13  
 All: 0.357 $\pm$ 0.002  $\chi^2$ /NDF: 401.3/26

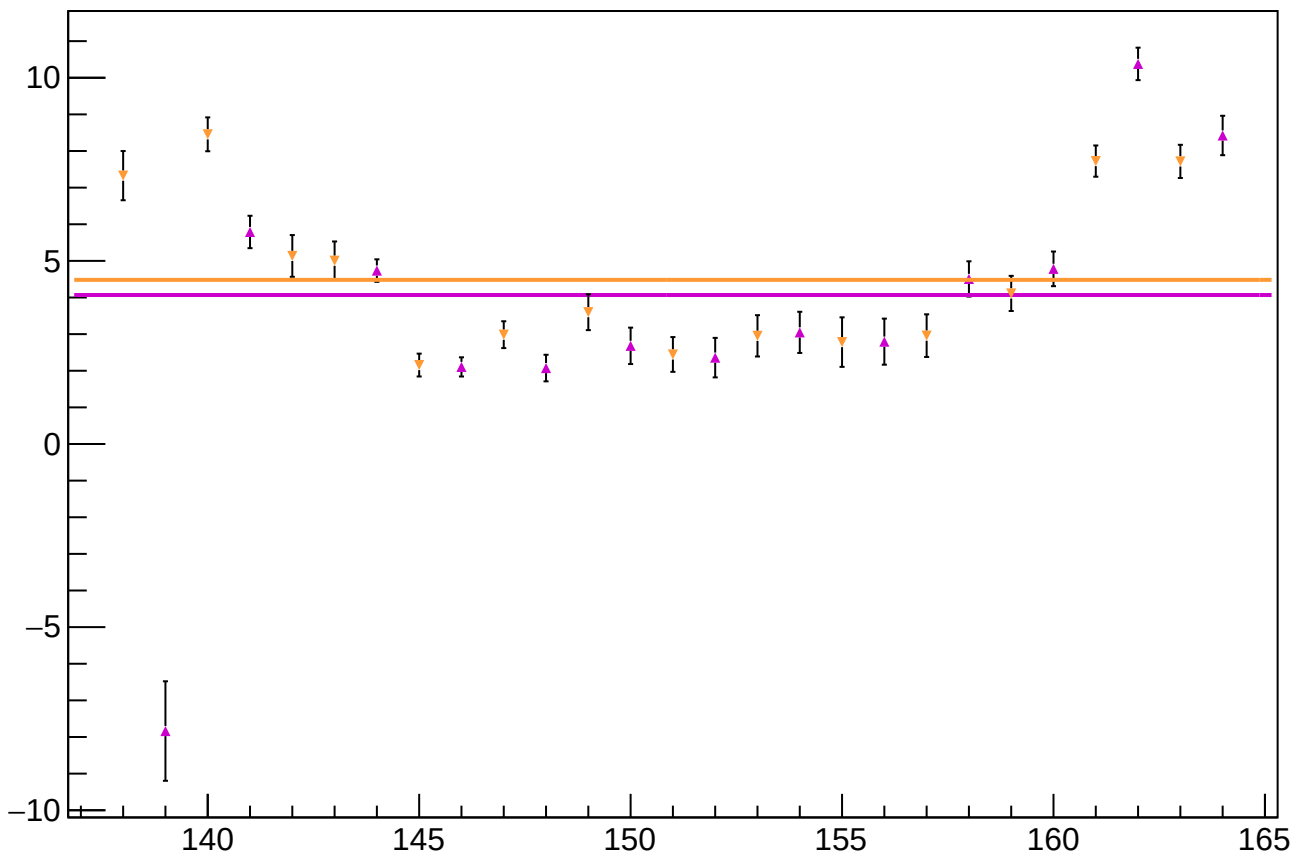
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.954 $\pm$ 0.180  $\chi^2$ /NDF:1201.3/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -8.344 $\pm$ 0.174  $\chi^2$ /NDF:1162.5/12

Left: -9.123 $\pm$ 0.125  $\chi^2$ /NDF: 2405.3/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -8.344 $\pm$ 0.174  $\chi^2$ /NDF:1162.5/12  
 Out: -9.954 $\pm$ 0.180  $\chi^2$ /NDF:1201.3/13  
 All: -9.123 $\pm$ 0.125  $\chi^2$ /NDF: 2405.3/26

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

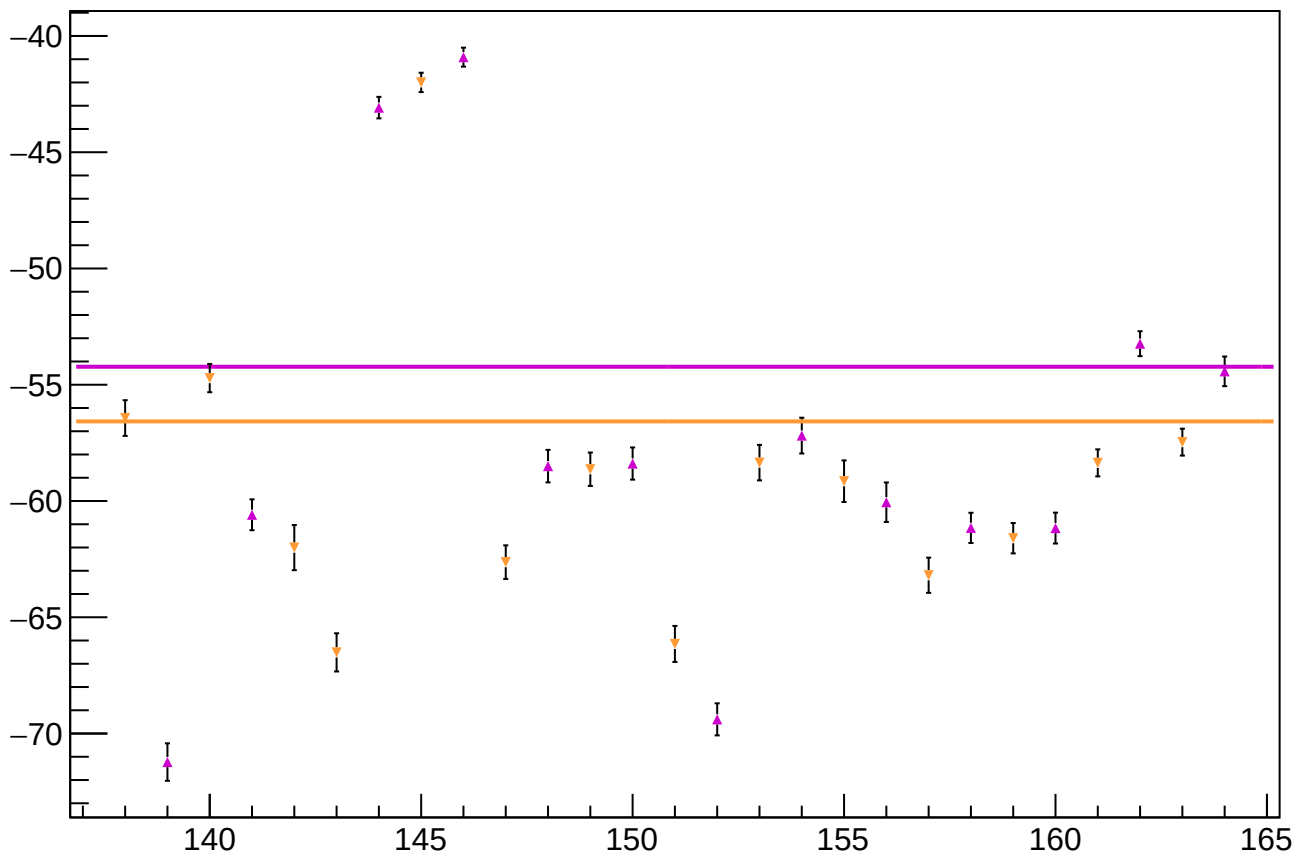


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.482+/-0.126     $\chi^2/\text{NDF}$ :317.9/13  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.068+/-0.120     $\chi^2/\text{NDF}$ :479.7/12

Left: 4.266+/-0.087     $\chi^2/\text{NDF}$ : 803.3/26  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.068+/-0.120     $\chi^2/\text{NDF}$ :479.7/12  
 Out: 4.482+/-0.126     $\chi^2/\text{NDF}$ :317.9/13  
 All: 4.266+/-0.087     $\chi^2/\text{NDF}$ : 803.3/26



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: -56.576+/-0.179  $\chi^2/\text{NDF}$ :1807.9/13

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

Left In: -54.226+/-0.171  $\chi^2/\text{NDF}$ :3028.6/12

Left: -55.345+/-0.123  $\chi^2/\text{NDF}$ : 4927.0/26

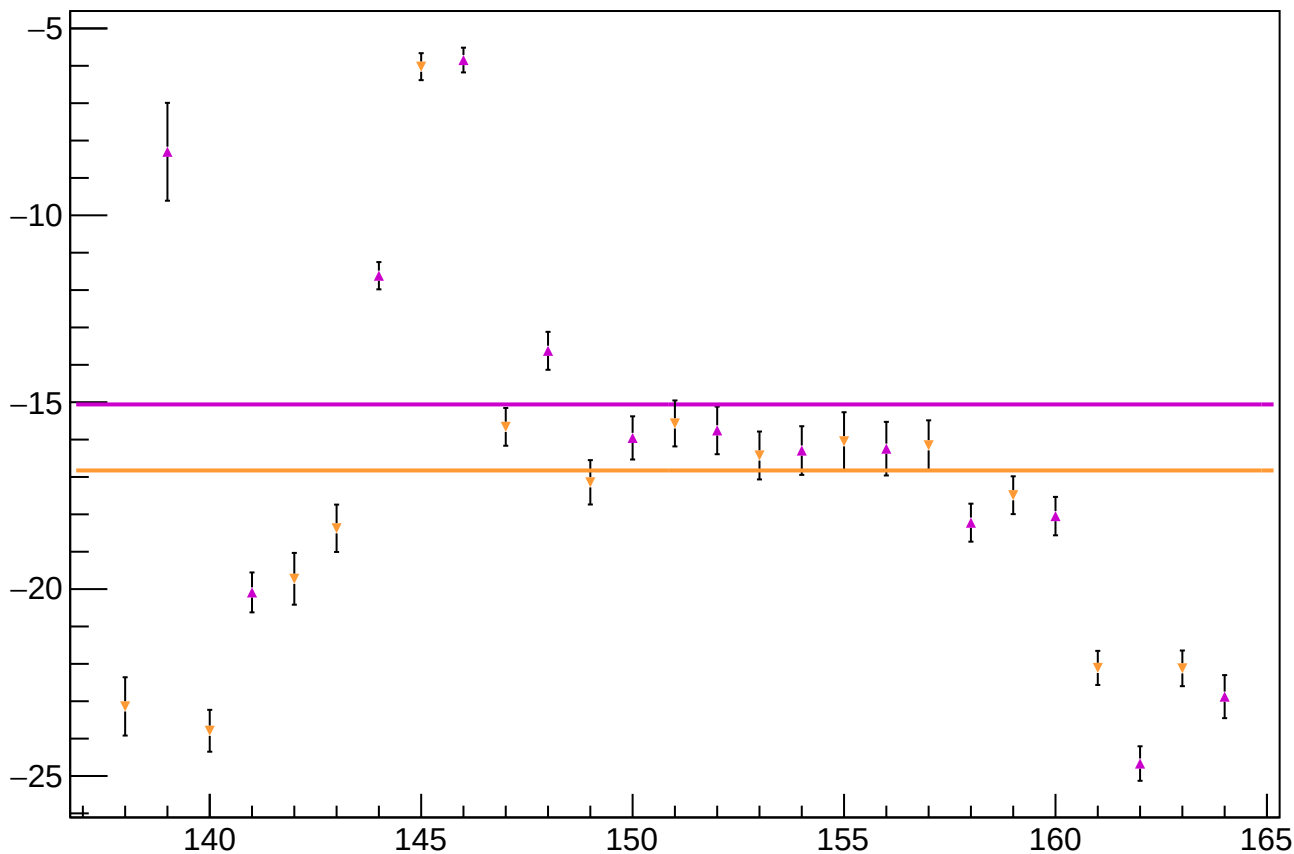
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.226+/-0.171  $\chi^2/\text{NDF}$ :3028.6/12

Out: -56.576+/-0.179  $\chi^2/\text{NDF}$ :1807.9/13

All: -55.345+/-0.123  $\chi^2/\text{NDF}$ : 4927.0/26

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: -16.826+/-0.148  $\chi^2/\text{NDF}$ :1411.2/13

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

Left In: -15.059+/-0.142  $\chi^2/\text{NDF}$ :1686.2/12

Left: -15.908+/-0.102  $\chi^2/\text{NDF}$ : 3171.9/26

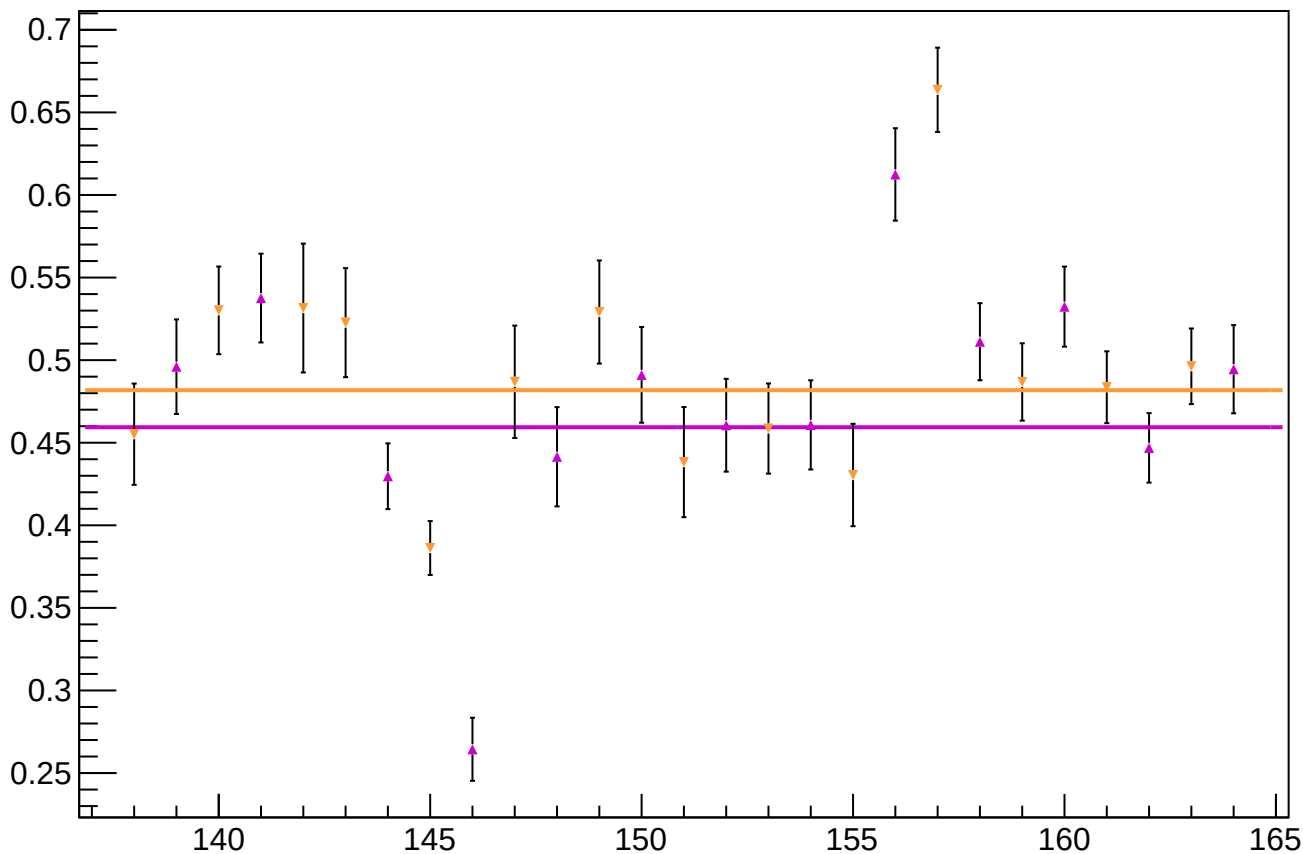
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.059+/-0.142  $\chi^2/\text{NDF}$ :1686.2/12

Out: -16.826+/-0.148  $\chi^2/\text{NDF}$ :1411.2/13

All: -15.908+/-0.102  $\chi^2/\text{NDF}$ : 3171.9/26

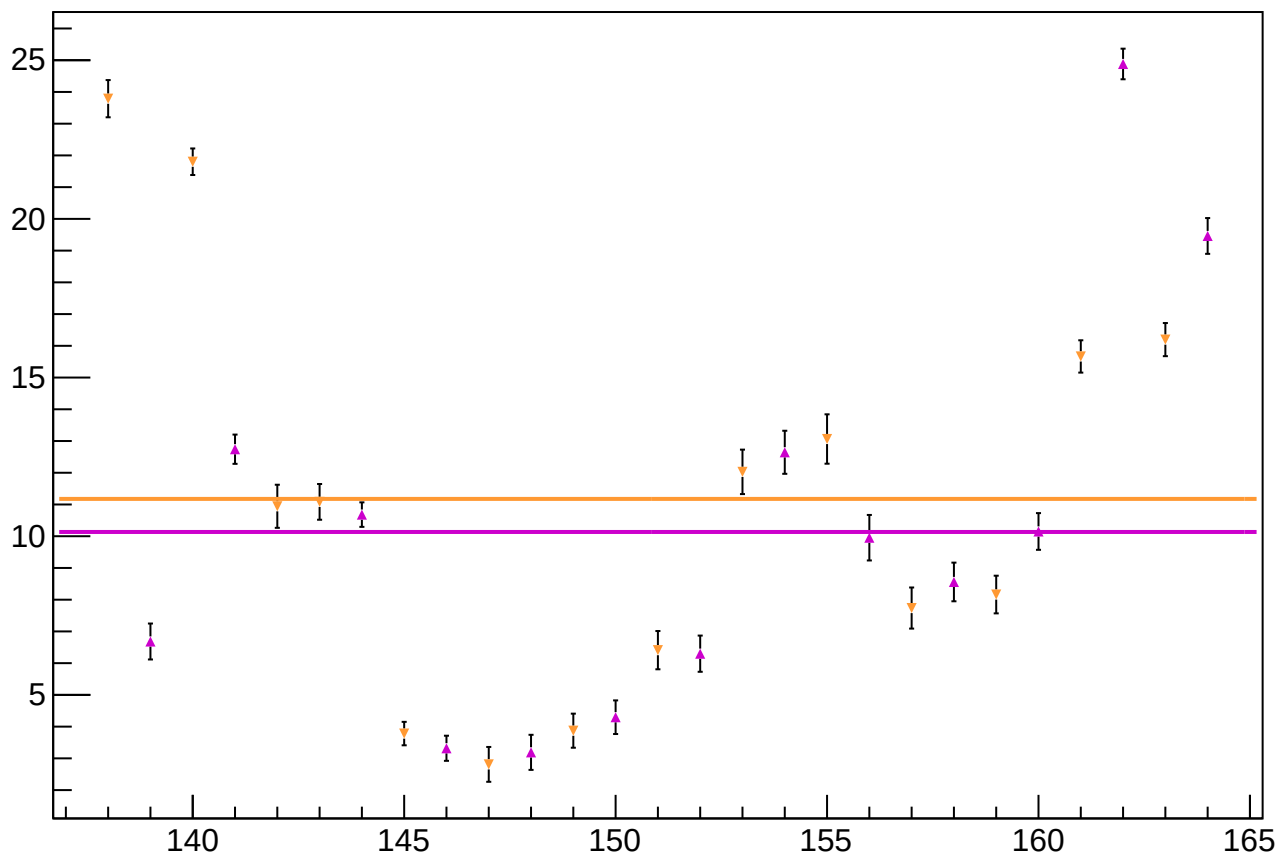
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.482 $\pm$ 0.007  $\chi^2$ /NDF:100.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.459 $\pm$ 0.007  $\chi^2$ /NDF:164.3/12

Left: 0.470 $\pm$ 0.005  $\chi^2$ /NDF: 269.7/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.459 $\pm$ 0.007  $\chi^2$ /NDF:164.3/12  
 Out: 0.482 $\pm$ 0.007  $\chi^2$ /NDF:100.2/13  
 All: 0.470 $\pm$ 0.005  $\chi^2$ /NDF: 269.7/26

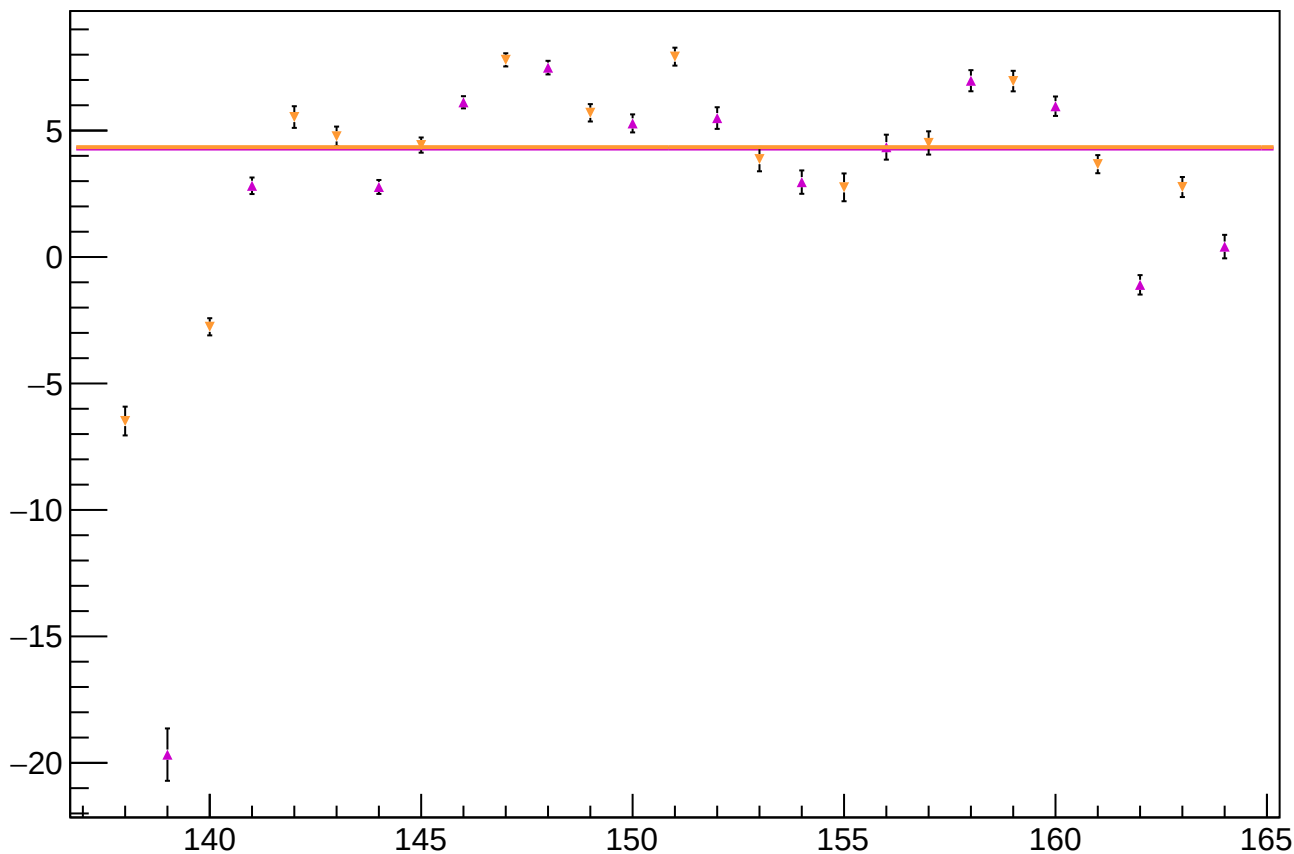
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 11.176 $\pm$ 0.145  $\chi^2/\text{NDF}$ :2219.3/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.134 $\pm$ 0.144  $\chi^2/\text{NDF}$ :1921.8/12

Left: 10.650 $\pm$ 0.102  $\chi^2/\text{NDF}$ : 4166.9/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.134 $\pm$ 0.144  $\chi^2/\text{NDF}$ :1921.8/12  
 Out: 11.176 $\pm$ 0.145  $\chi^2/\text{NDF}$ :2219.3/13  
 All: 10.650 $\pm$ 0.102  $\chi^2/\text{NDF}$ : 4166.9/26

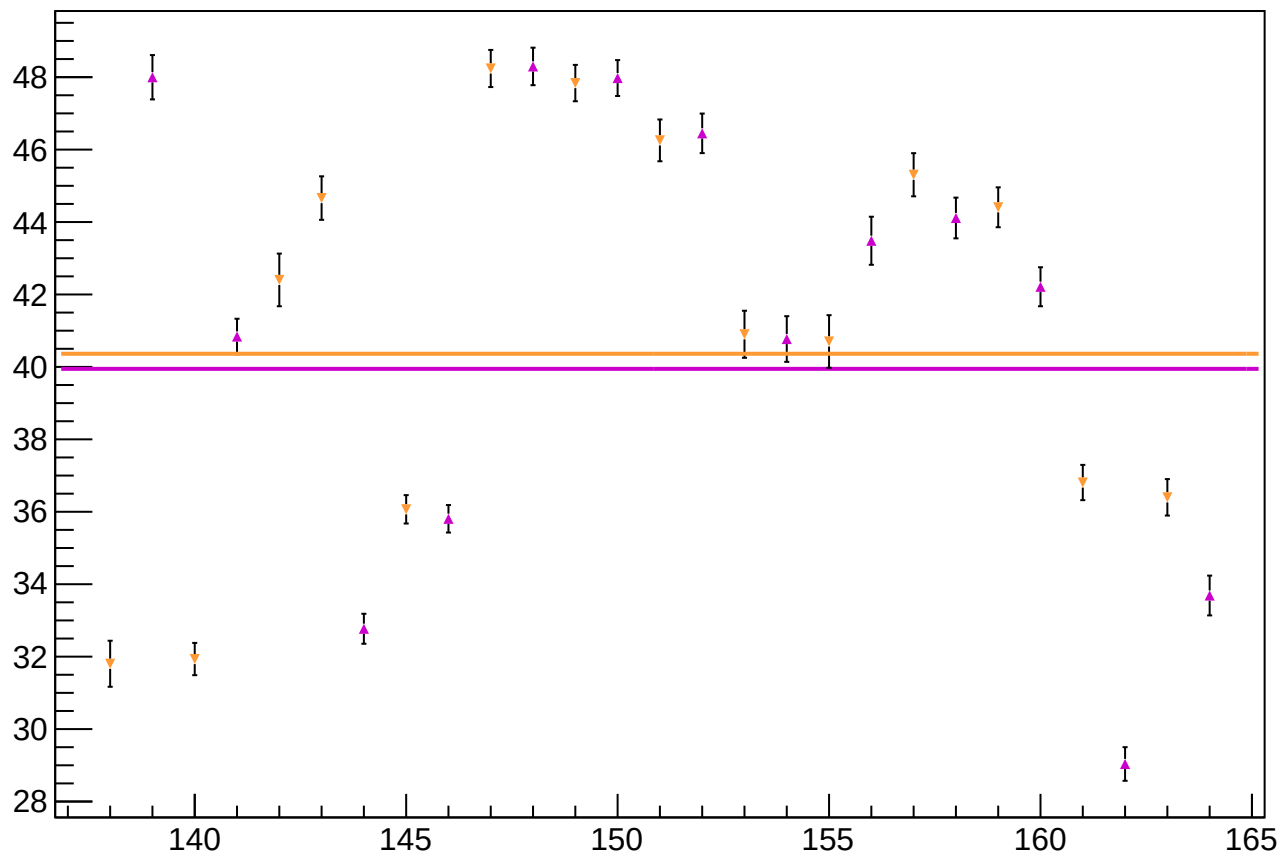
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.343+/-0.101  $\chi^2/\text{NDF}$ :1171.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.289+/-0.100  $\chi^2/\text{NDF}$ :1135.0/12

Left: 4.316+/-0.071  $\chi^2/\text{NDF}$ : 2306.5/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.289+/-0.100  $\chi^2/\text{NDF}$ :1135.0/12  
 Out: 4.343+/-0.101  $\chi^2/\text{NDF}$ :1171.3/13  
 All: 4.316+/-0.071  $\chi^2/\text{NDF}$ : 2306.5/26

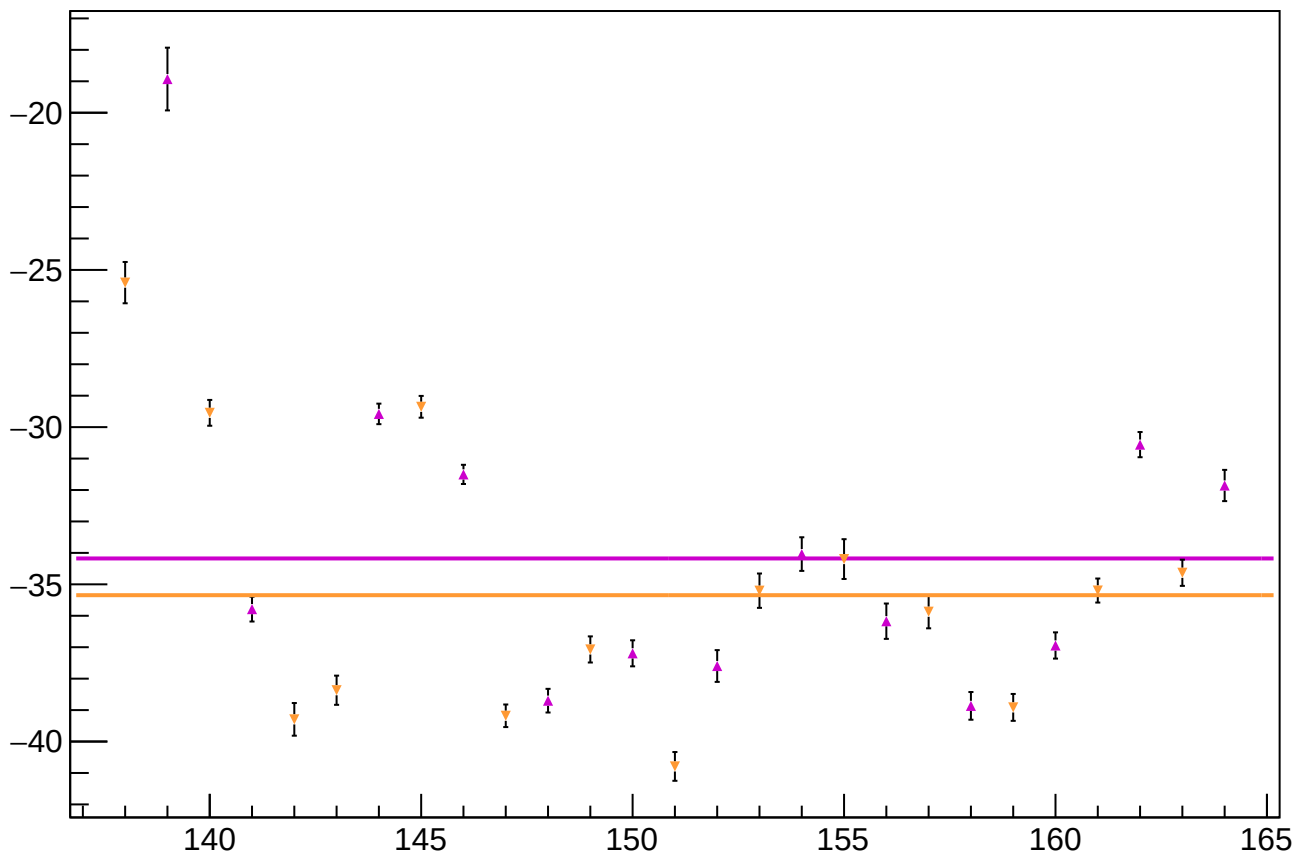
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 40.363+/-0.144  $\chi^2/\text{NDF}$ :1519.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 39.946+/-0.141  $\chi^2/\text{NDF}$ :2044.7/12

Left: 40.150+/-0.101  $\chi^2/\text{NDF}$ : 3568.3/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 39.946+/-0.141  $\chi^2/\text{NDF}$ :2044.7/12  
 Out: 40.363+/-0.144  $\chi^2/\text{NDF}$ :1519.3/13  
 All: 40.150+/-0.101  $\chi^2/\text{NDF}$ : 3568.3/26

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: -35.345+/-0.119  $\chi^2/\text{NDF}$ :1177.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.177+/-0.118  $\chi^2/\text{NDF}$ :1042.2/12

Left: -34.755+/-0.084  $\chi^2/\text{NDF}$ : 2268.8/26

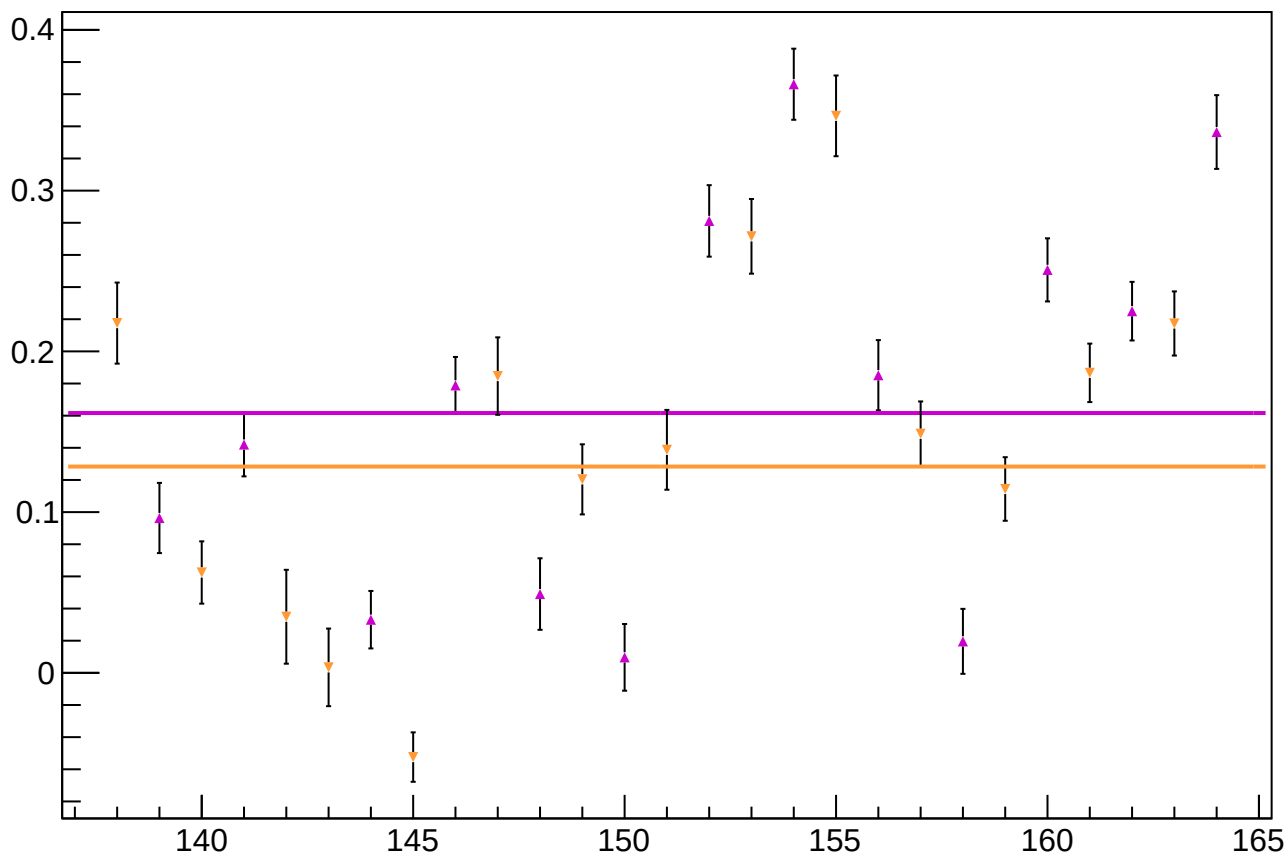
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.177+/-0.118  $\chi^2/\text{NDF}$ :1042.2/12

Out: -35.345+/-0.119  $\chi^2/\text{NDF}$ :1177.9/13

All: -34.755+/-0.084  $\chi^2/\text{NDF}$ : 2268.8/26

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected

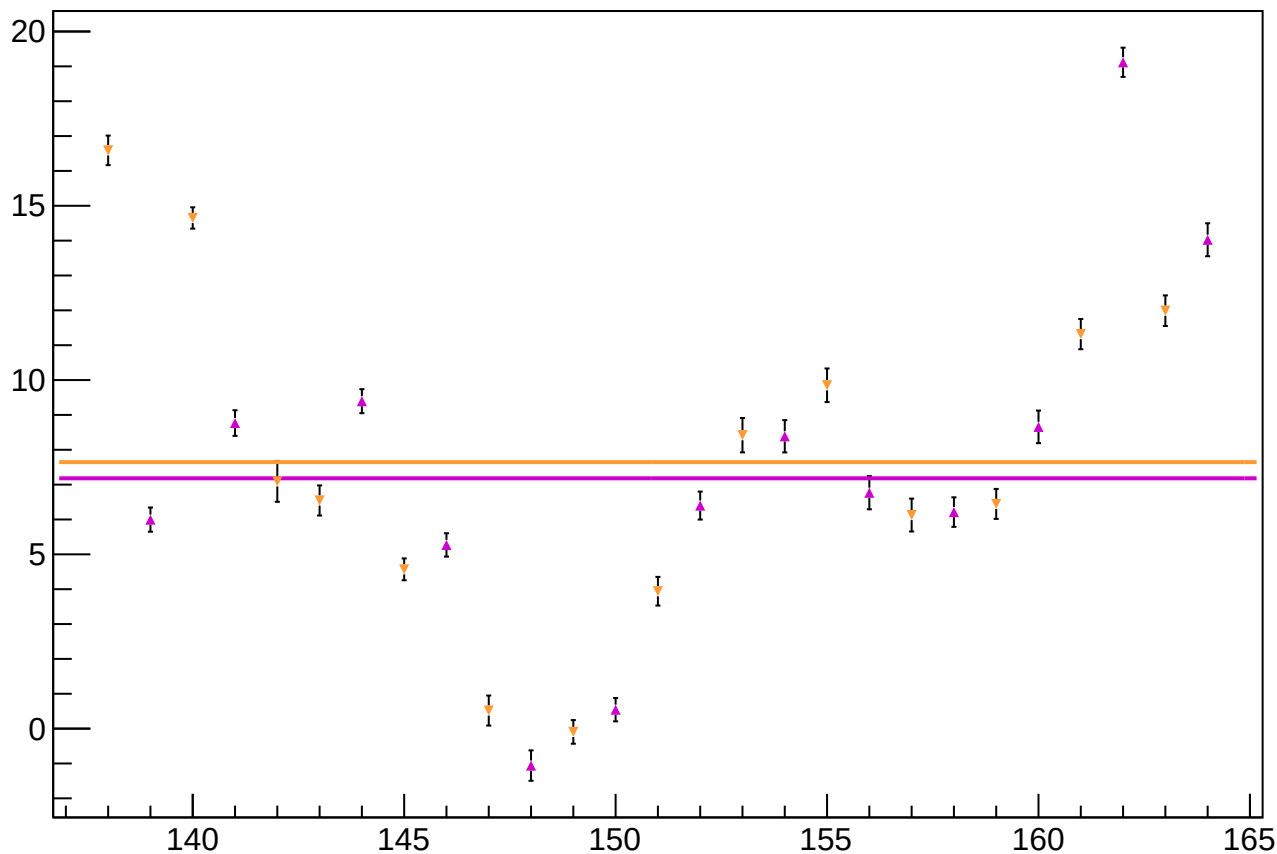


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.128 $\pm$ 0.006  $\chi^2$ /NDF:350.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:397.6/12

Left: 0.145 $\pm$ 0.004  $\chi^2$ /NDF: 765.0/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:397.6/12  
 Out: 0.128 $\pm$ 0.006  $\chi^2$ /NDF:350.2/13  
 All: 0.145 $\pm$ 0.004  $\chi^2$ /NDF: 765.0/26



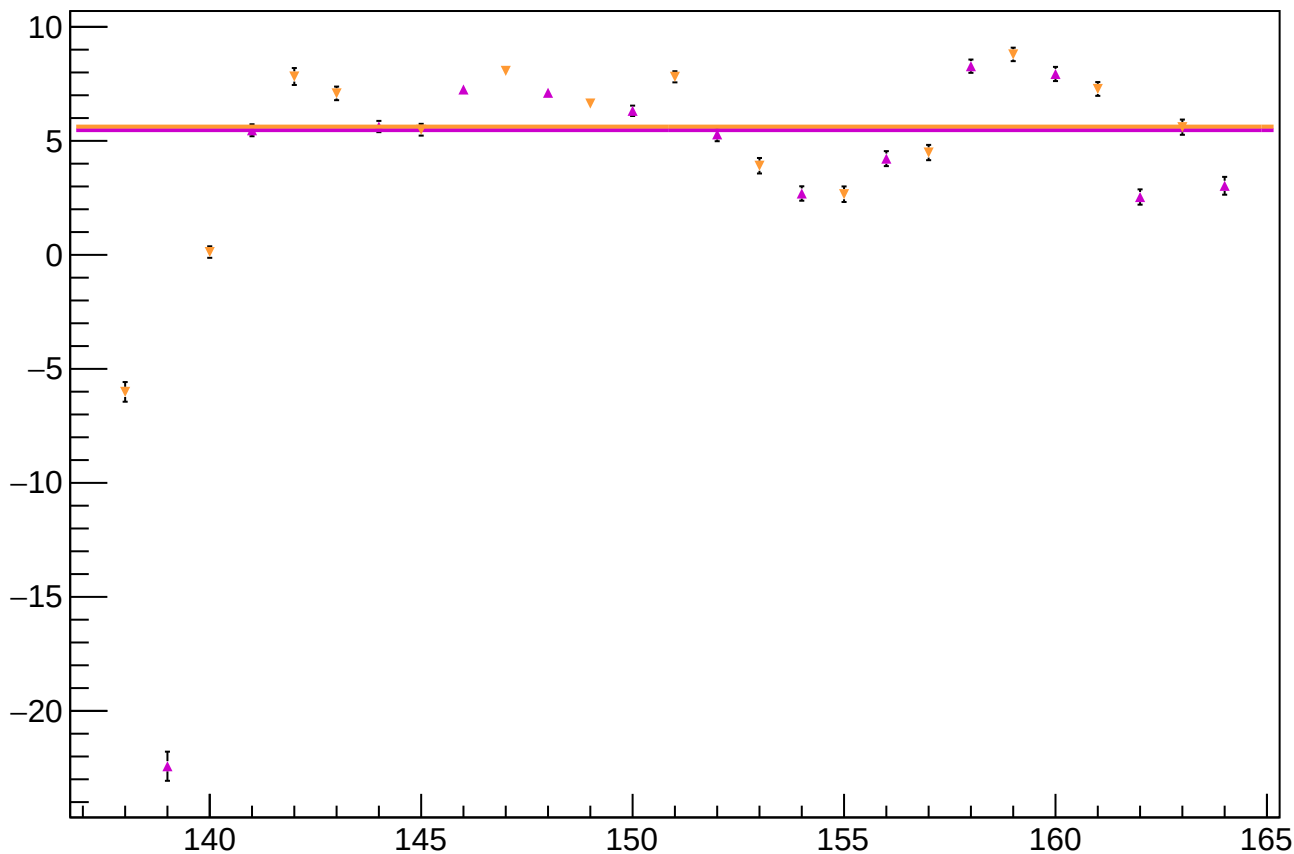
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 7.646+/-0.109  $\chi^2$ /NDF:2161.8/13  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 7.181+/-0.110  $\chi^2$ /NDF:1898.8/12

Left: 7.415+/-0.078  $\chi^2$ /NDF: 4069.5/26  
 Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 In: 7.181+/-0.110  $\chi^2$ /NDF:1898.8/12  
 Out: 7.646+/-0.109  $\chi^2$ /NDF:2161.8/13  
 All: 7.415+/-0.078  $\chi^2$ /NDF: 4069.5/26

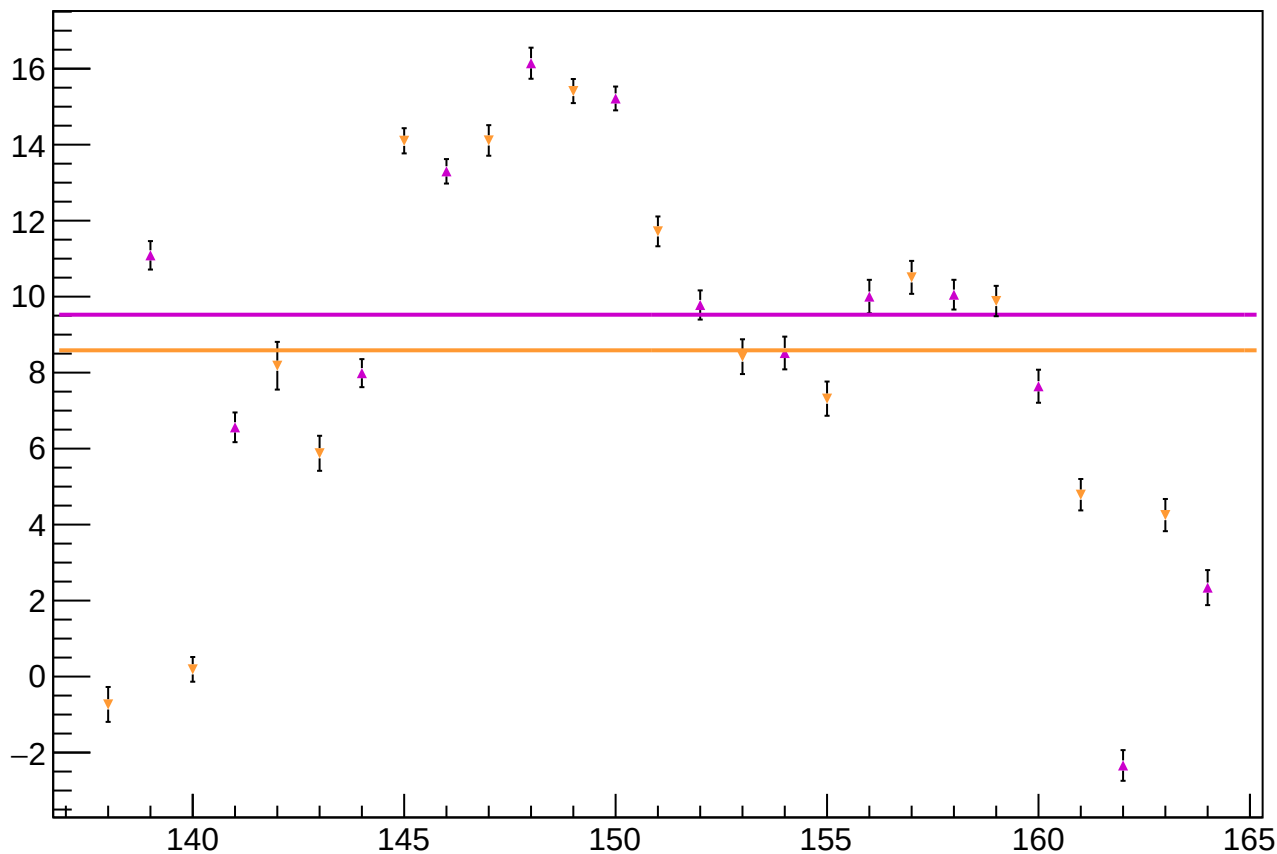
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.625+/-0.076  $\chi^2/\text{NDF}$ :1757.5/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.471+/-0.078  $\chi^2/\text{NDF}$ :2410.7/12

Left: 5.550+/-0.054  $\chi^2/\text{NDF}$ : 4170.2/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.471+/-0.078  $\chi^2/\text{NDF}$ :2410.7/12  
 Out: 5.625+/-0.076  $\chi^2/\text{NDF}$ :1757.5/13  
 All: 5.550+/-0.054  $\chi^2/\text{NDF}$ : 4170.2/26

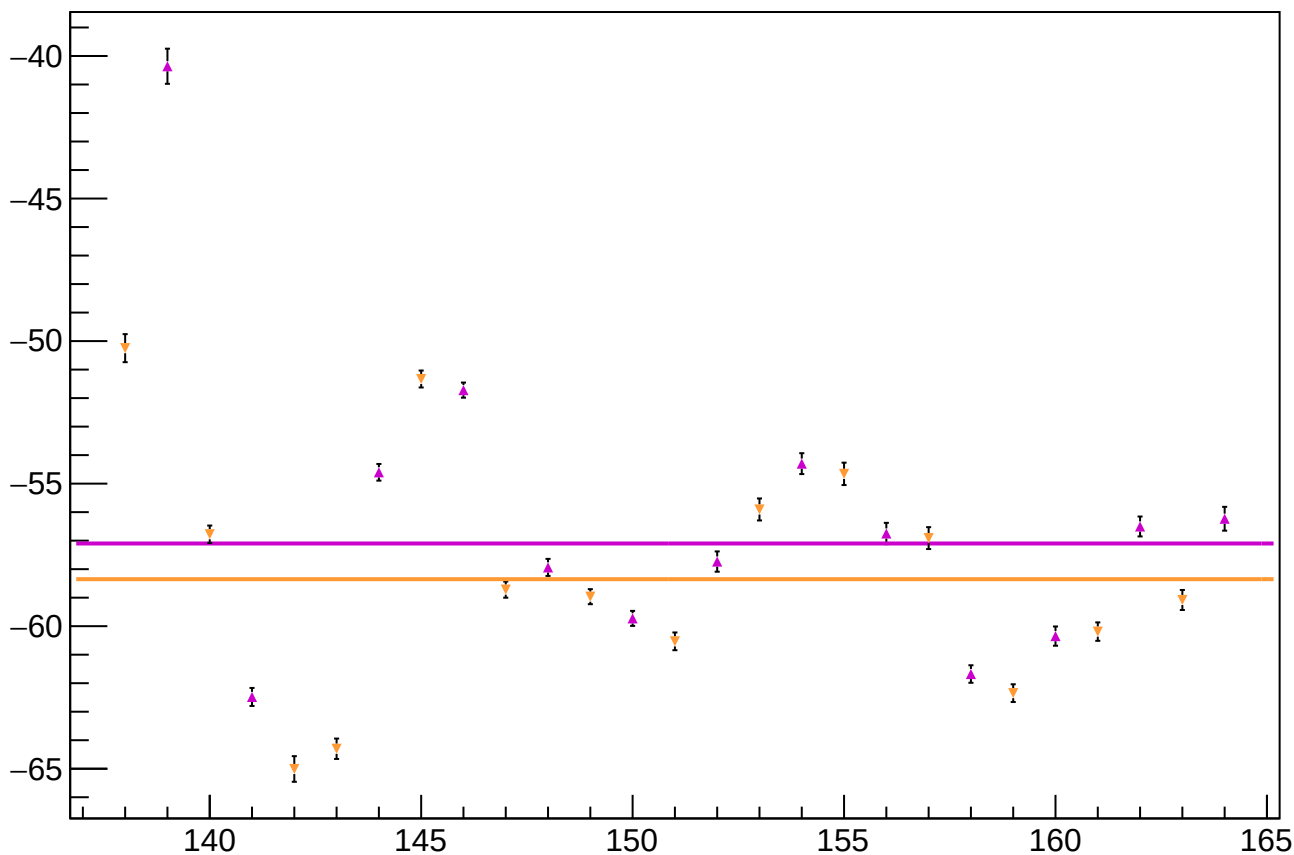
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.587+/-0.108  $\chi^2/\text{NDF}$ :2331.8/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.524+/-0.107  $\chi^2/\text{NDF}$ :1954.6/12

Left: 9.058+/-0.076  $\chi^2/\text{NDF}$ : 4324.3/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 9.524+/-0.107  $\chi^2/\text{NDF}$ :1954.6/12  
 Out: 8.587+/-0.108  $\chi^2/\text{NDF}$ :2331.8/13  
 All: 9.058+/-0.076  $\chi^2/\text{NDF}$ : 4324.3/26

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.351 $\pm$ 0.090  $\chi^2/\text{NDF}$ :1753.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -57.100 $\pm$ 0.091  $\chi^2/\text{NDF}$ :2005.5/12

Left: -57.736 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 3854.3/26

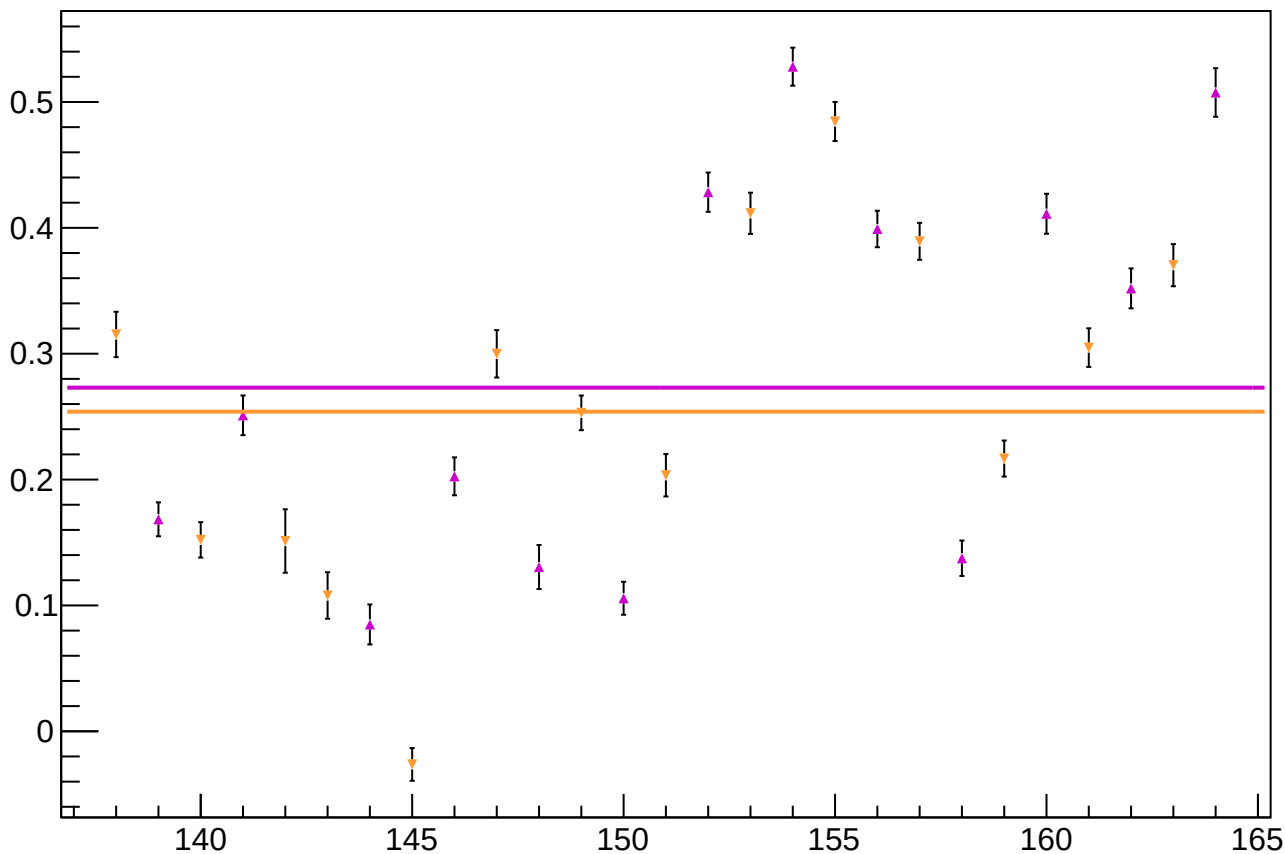
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -57.100 $\pm$ 0.091  $\chi^2/\text{NDF}$ :2005.5/12

Out: -58.351 $\pm$ 0.090  $\chi^2/\text{NDF}$ :1753.2/13

All: -57.736 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 3854.3/26

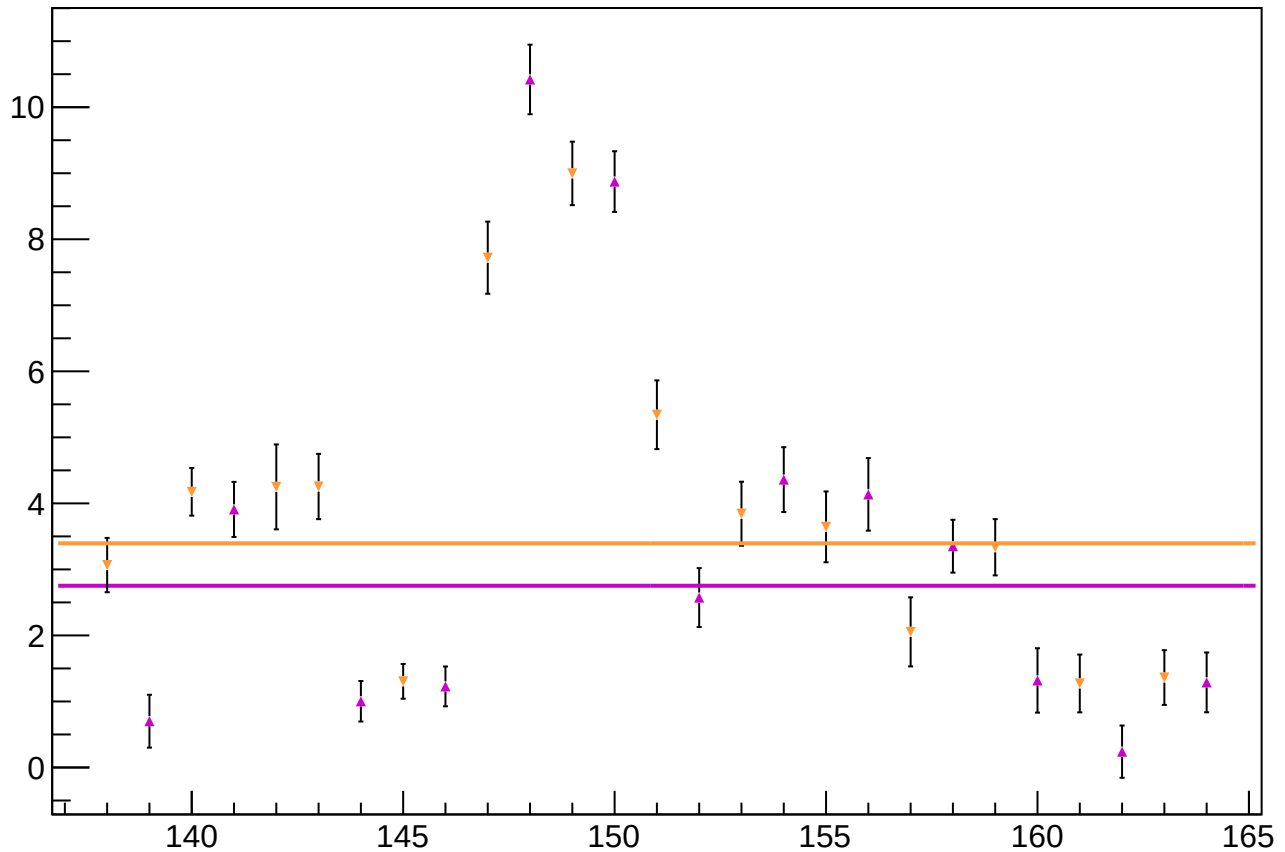
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.254 $\pm$ 0.004  $\chi^2$ /NDF:1086.7/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.273 $\pm$ 0.004  $\chi^2$ /NDF:1255.1/12

Left: 0.264 $\pm$ 0.003  $\chi^2$ /NDF: 2351.9/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.273 $\pm$ 0.004  $\chi^2$ /NDF:1255.1/12  
 Out: 0.254 $\pm$ 0.004  $\chi^2$ /NDF:1086.7/13  
 All: 0.264 $\pm$ 0.003  $\chi^2$ /NDF: 2351.9/26

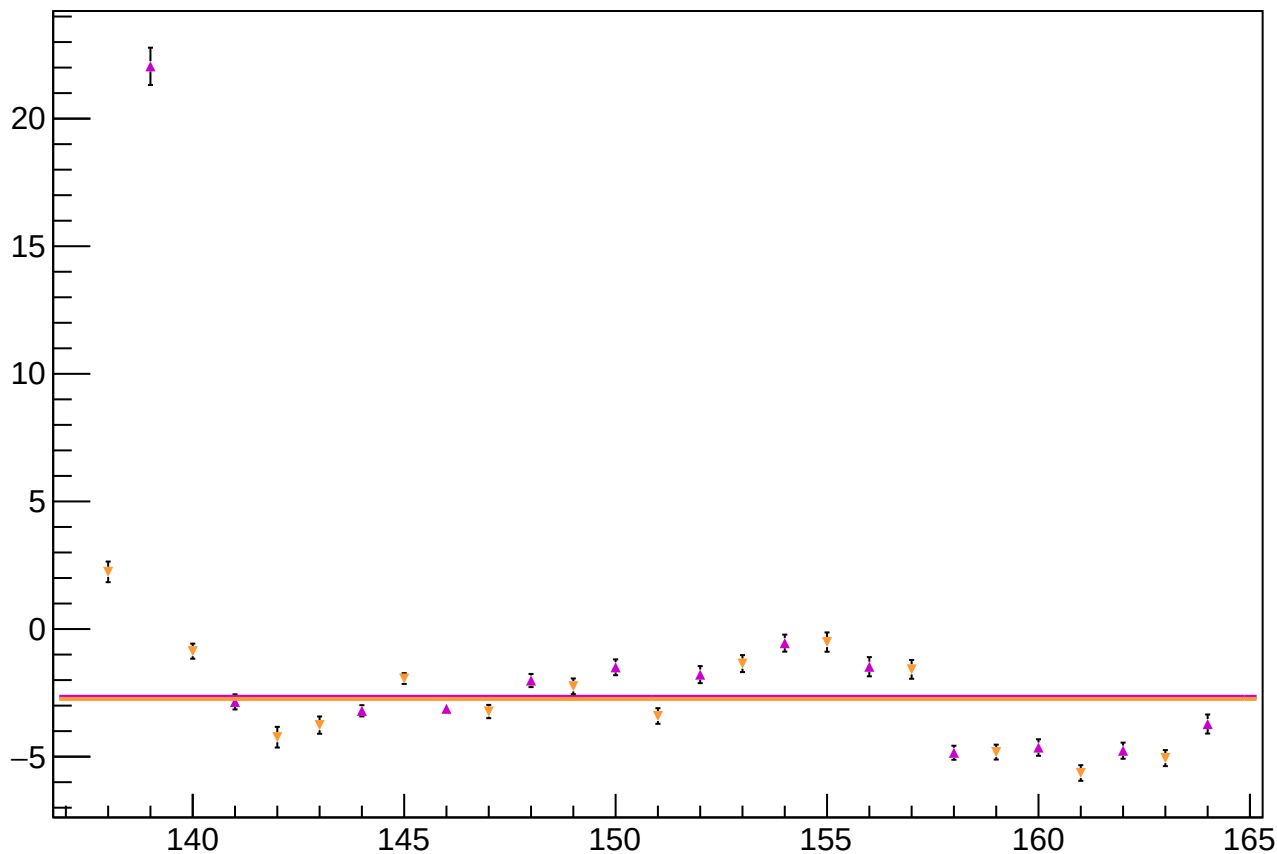
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.395+/-0.116  $\chi^2/\text{NDF}$ :341.1/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.753+/-0.115  $\chi^2/\text{NDF}$ :559.9/12

Left: 3.069+/-0.082  $\chi^2/\text{NDF}$ : 916.5/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.753+/-0.115  $\chi^2/\text{NDF}$ :559.9/12  
 Out: 3.395+/-0.116  $\chi^2/\text{NDF}$ :341.1/13  
 All: 3.069+/-0.082  $\chi^2/\text{NDF}$ : 916.5/26

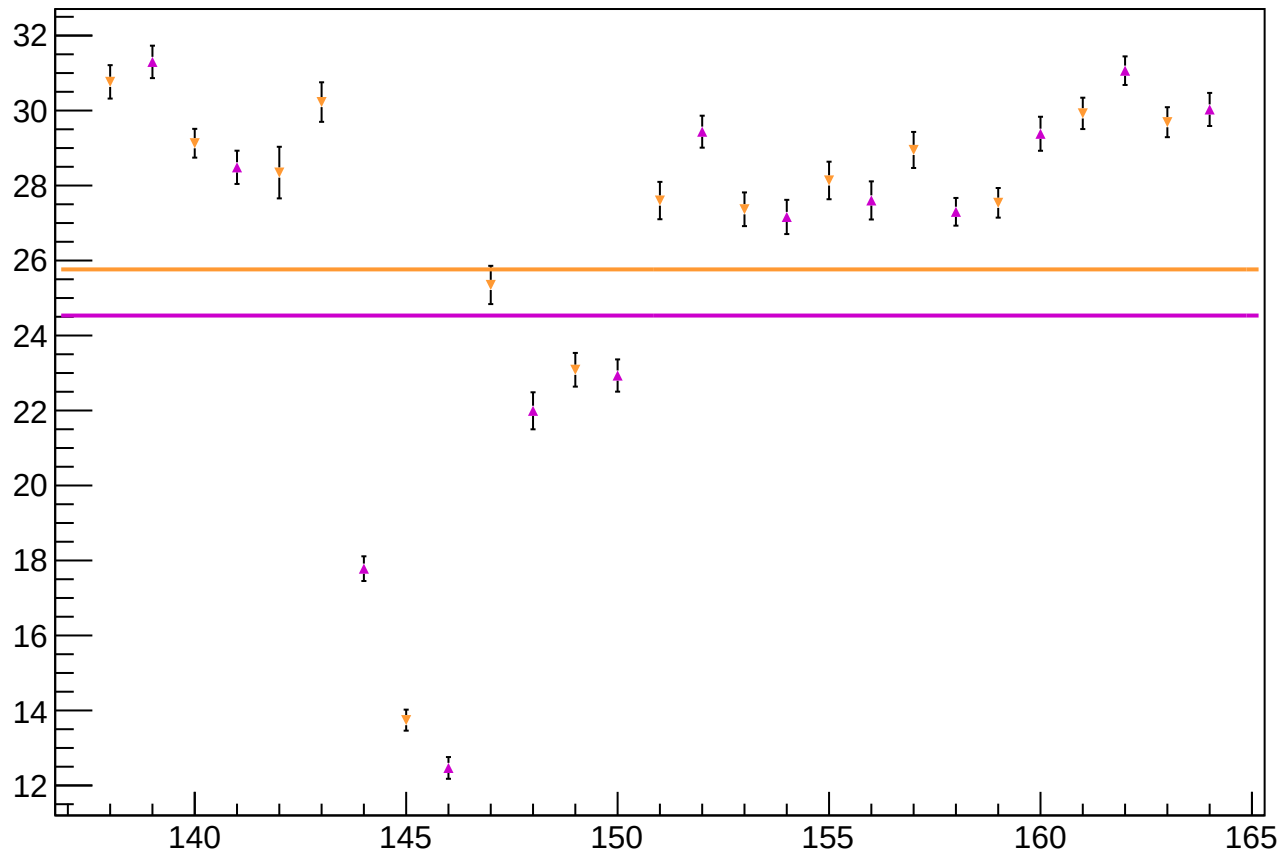
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.737+/-0.083  $\chi^2/\text{NDF}$ :497.5/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.655+/-0.081  $\chi^2/\text{NDF}$ :1385.0/12

Left: -2.696+/-0.058  $\chi^2/\text{NDF}$ : 1883.0/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.655+/-0.081  $\chi^2/\text{NDF}$ :1385.0/12  
 Out: -2.737+/-0.083  $\chi^2/\text{NDF}$ :497.5/13  
 All: -2.696+/-0.058  $\chi^2/\text{NDF}$ : 1883.0/26

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

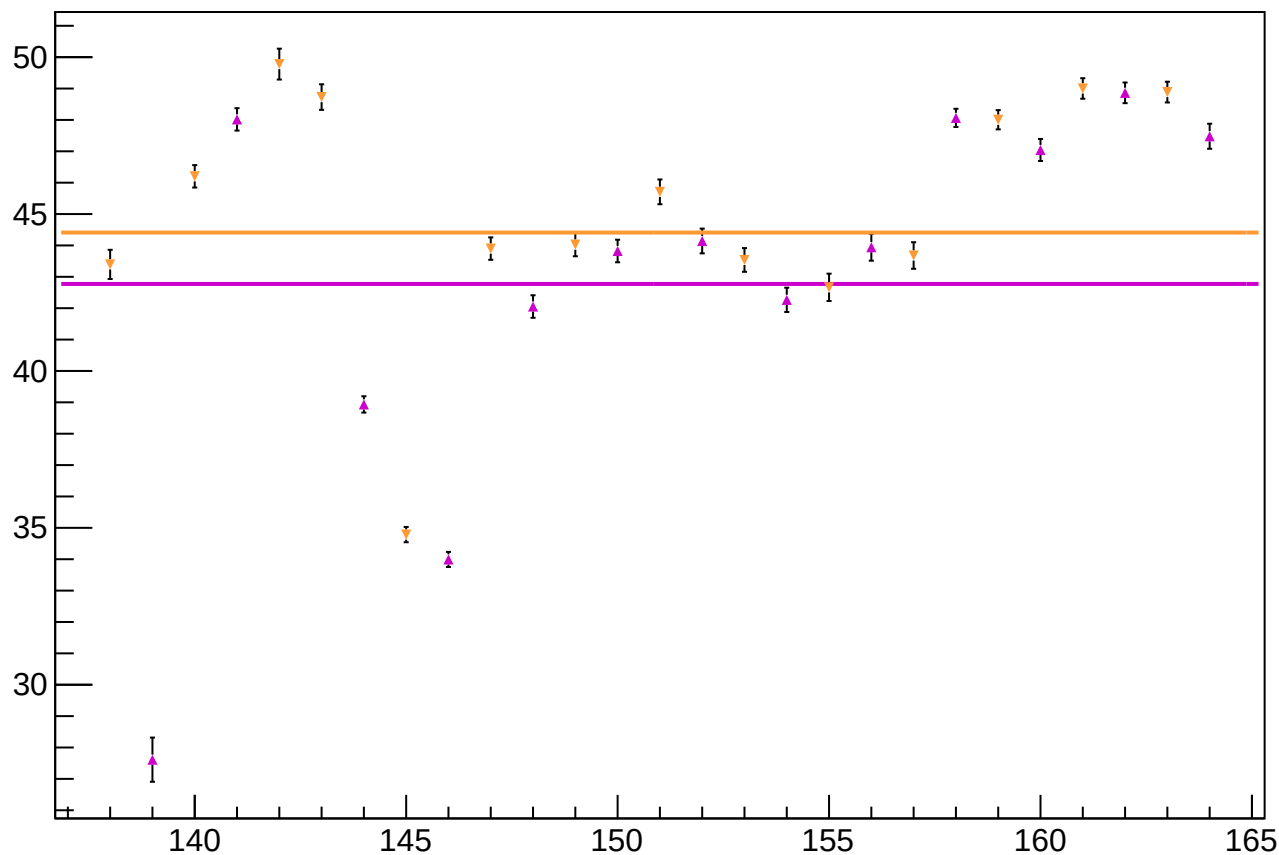


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 25.763+/-0.116  $\chi^2/\text{NDF}$ :2471.5/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 24.533+/-0.112  $\chi^2/\text{NDF}$ :3335.6/12

Left: 25.129+/-0.081  $\chi^2/\text{NDF}$ : 5865.4/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 24.533+/-0.112  $\chi^2/\text{NDF}$ :3335.6/12  
 Out: 25.763+/-0.116  $\chi^2/\text{NDF}$ :2471.5/13  
 All: 25.129+/-0.081  $\chi^2/\text{NDF}$ : 5865.4/26



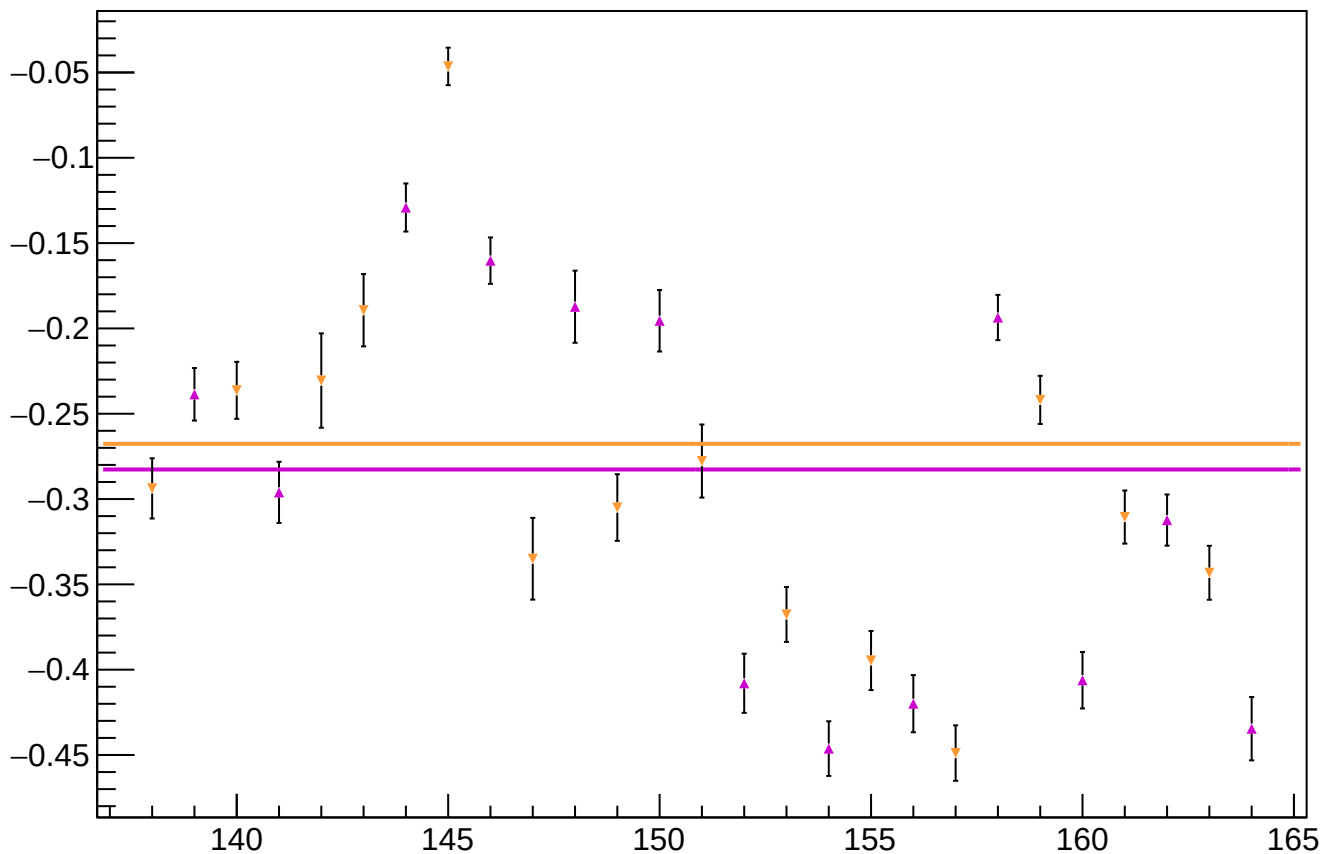
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 44.411+/-0.096  $\chi^2/\text{NDF}$ :2374.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 42.773+/-0.095  $\chi^2/\text{NDF}$ :3223.8/12

Left: 43.579+/-0.068  $\chi^2/\text{NDF}$ : 5745.1/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 42.773+/-0.095  $\chi^2/\text{NDF}$ :3223.8/12  
 Out: 44.411+/-0.096  $\chi^2/\text{NDF}$ :2374.2/13  
 All: 43.579+/-0.068  $\chi^2/\text{NDF}$ : 5745.1/26

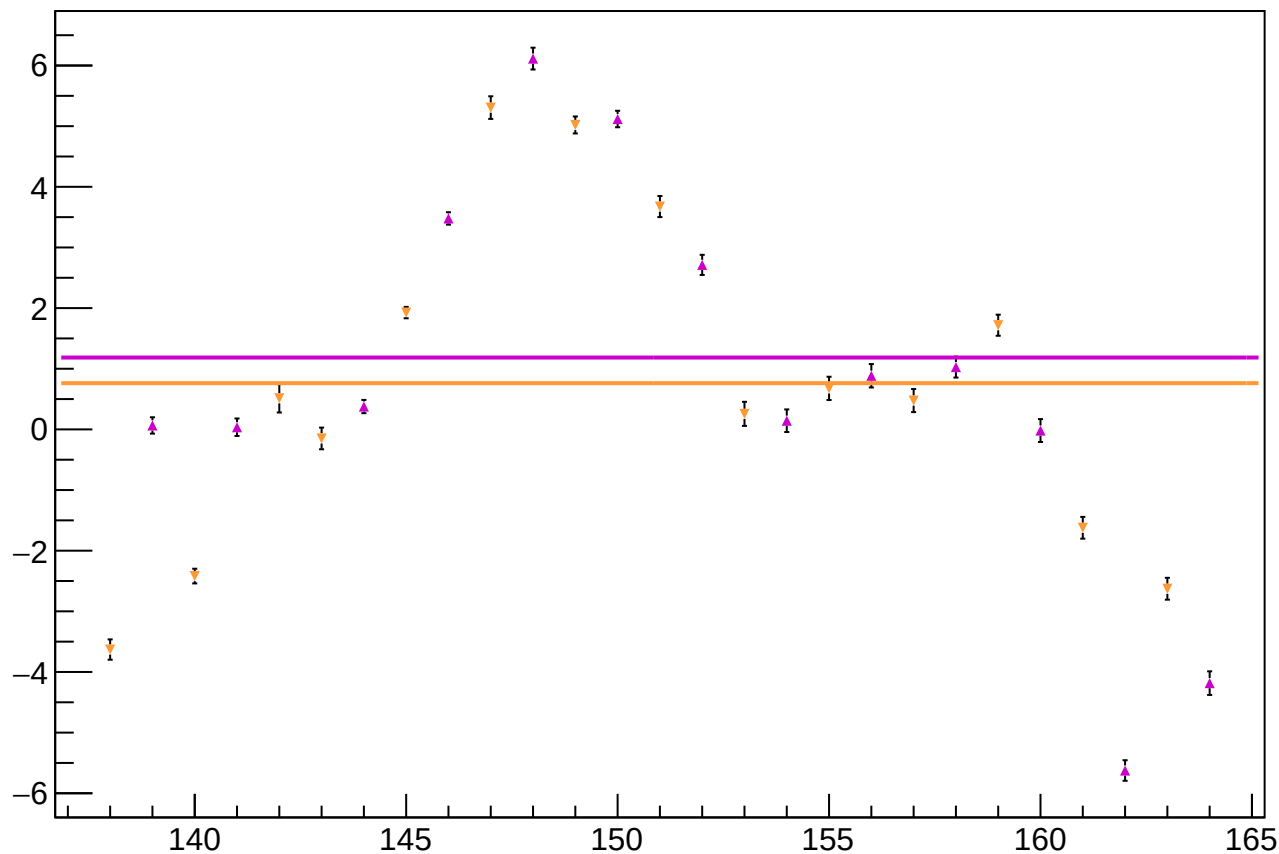
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.268+/-0.005  $\chi^2/\text{NDF}$ : 689.1/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.283+/-0.004  $\chi^2/\text{NDF}$ : 647.5/12

Left: -0.275+/-0.003  $\chi^2/\text{NDF}$ : 1342.3/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.283+/-0.004  $\chi^2/\text{NDF}$ : 647.5/12  
 Out: -0.268+/-0.005  $\chi^2/\text{NDF}$ : 689.1/13  
 All: -0.275+/-0.003  $\chi^2/\text{NDF}$ : 1342.3/26

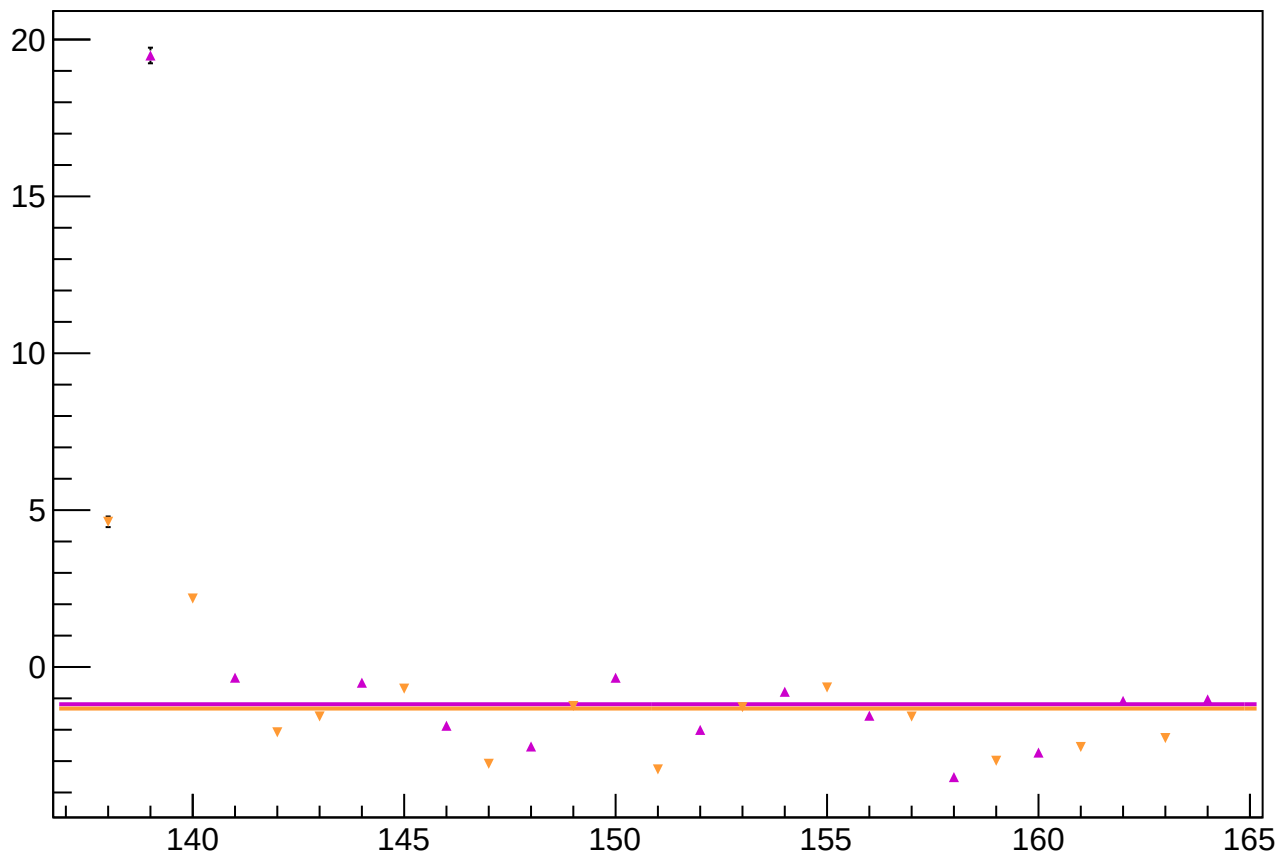
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.762 $\pm$ 0.042  $\chi^2$ /NDF:3925.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.185 $\pm$ 0.041  $\chi^2$ /NDF:4809.7/12

Left: 0.979 $\pm$ 0.030  $\chi^2$ /NDF: 8786.2/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 1.185 $\pm$ 0.041  $\chi^2$ /NDF:4809.7/12  
 Out: 0.762 $\pm$ 0.042  $\chi^2$ /NDF:3925.8/13  
 All: 0.979 $\pm$ 0.030  $\chi^2$ /NDF: 8786.2/26

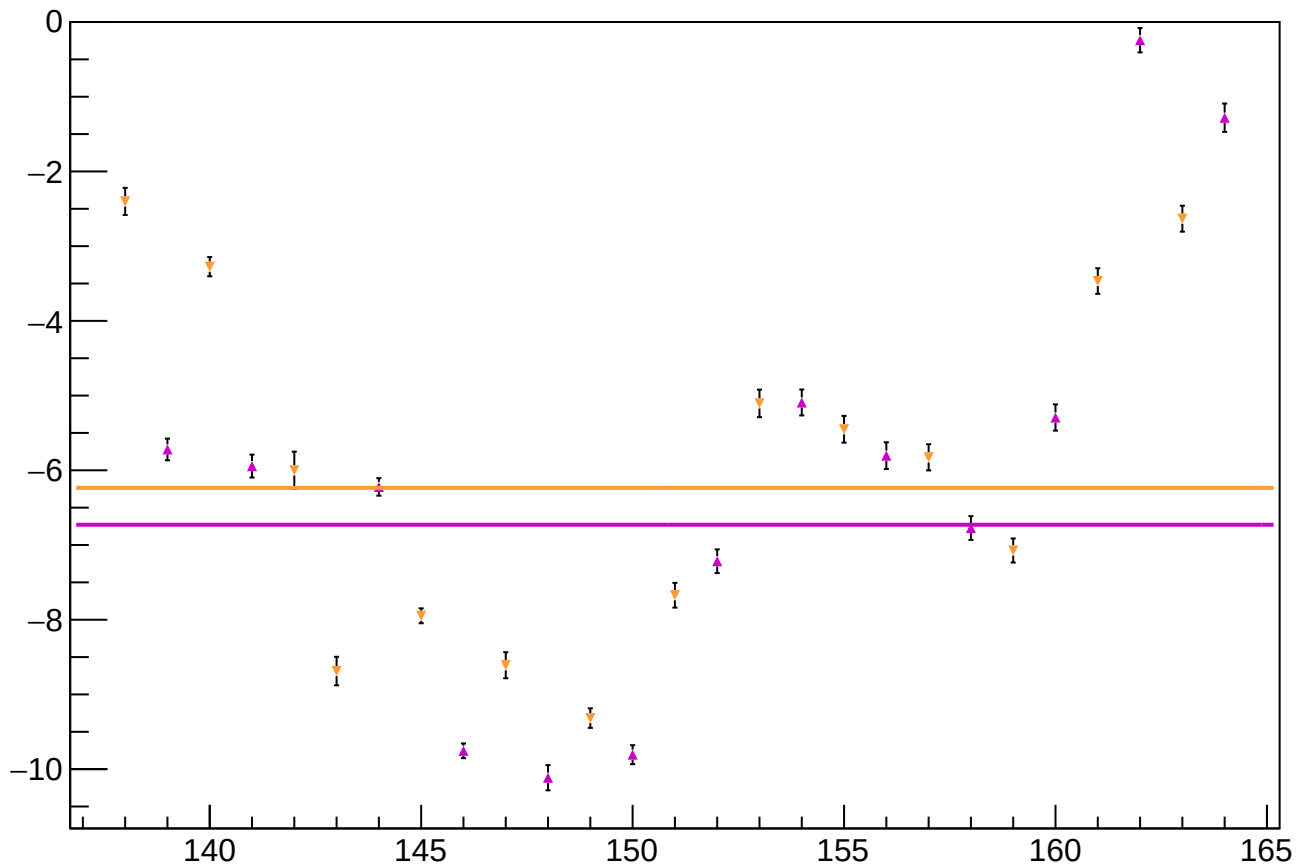
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.325+/-0.030  $\chi^2/\text{NDF}$ : 3674.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.187+/-0.029  $\chi^2/\text{NDF}$ : 8045.9/12

Left: -1.255+/-0.021  $\chi^2/\text{NDF}$ : 11730.8/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.187+/-0.029  $\chi^2/\text{NDF}$ : 8045.9/12  
 Out: -1.325+/-0.030  $\chi^2/\text{NDF}$ : 3674.3/13  
 All: -1.255+/-0.021  $\chi^2/\text{NDF}$ : 11730.8/26

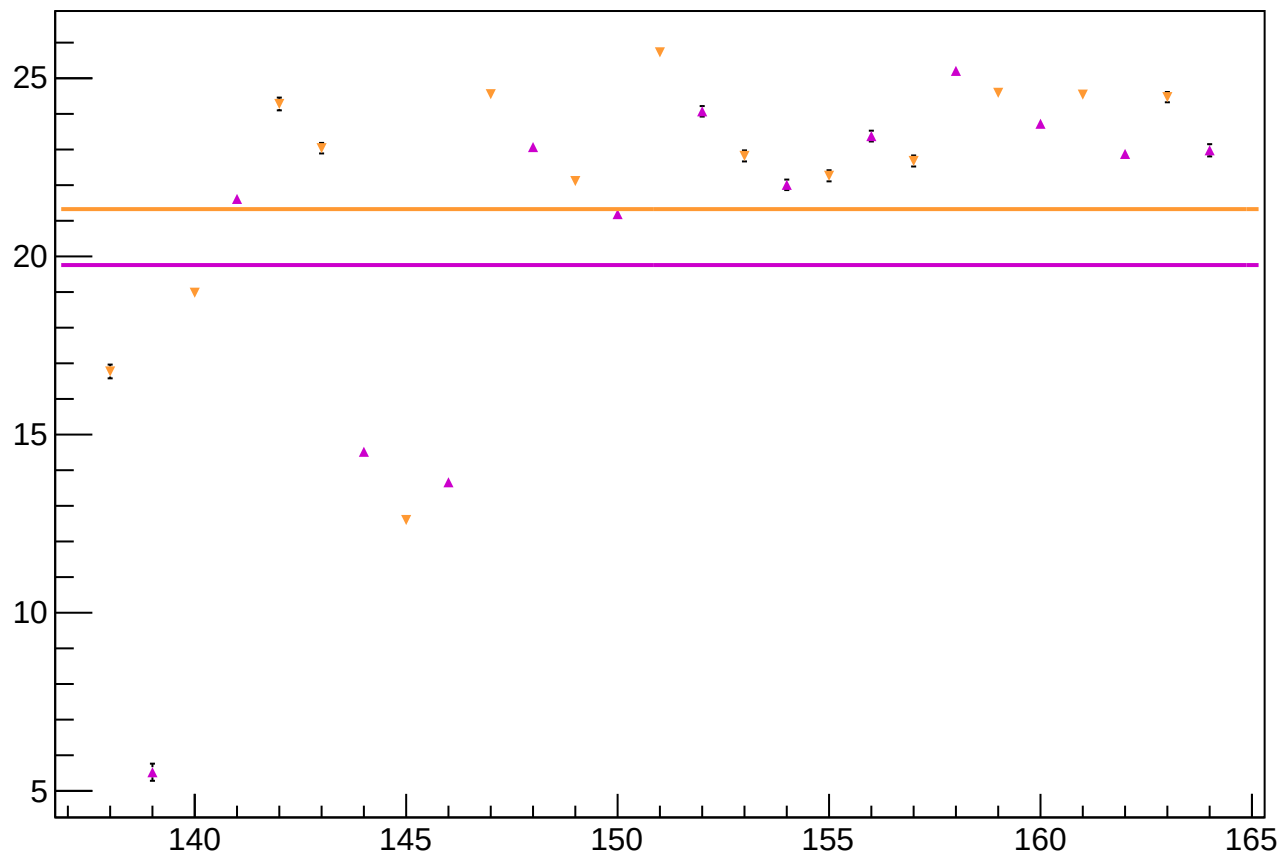
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.235+/-0.042  $\chi^2/\text{NDF}$ :3028.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.729+/-0.041  $\chi^2/\text{NDF}$ :4619.2/12

Left: -6.491+/-0.029  $\chi^2/\text{NDF}$ : 7718.9/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.729+/-0.041  $\chi^2/\text{NDF}$ :4619.2/12  
 Out: -6.235+/-0.042  $\chi^2/\text{NDF}$ :3028.7/13  
 All: -6.491+/-0.029  $\chi^2/\text{NDF}$ : 7718.9/26

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: 21.328+/-0.035  $\chi^2/\text{NDF}$ :14909.5/13

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

Left In: 19.757+/-0.035  $\chi^2/\text{NDF}$ :18547.0/12

Left: 20.525+/-0.025  $\chi^2/\text{NDF}$ : 34466.0/26

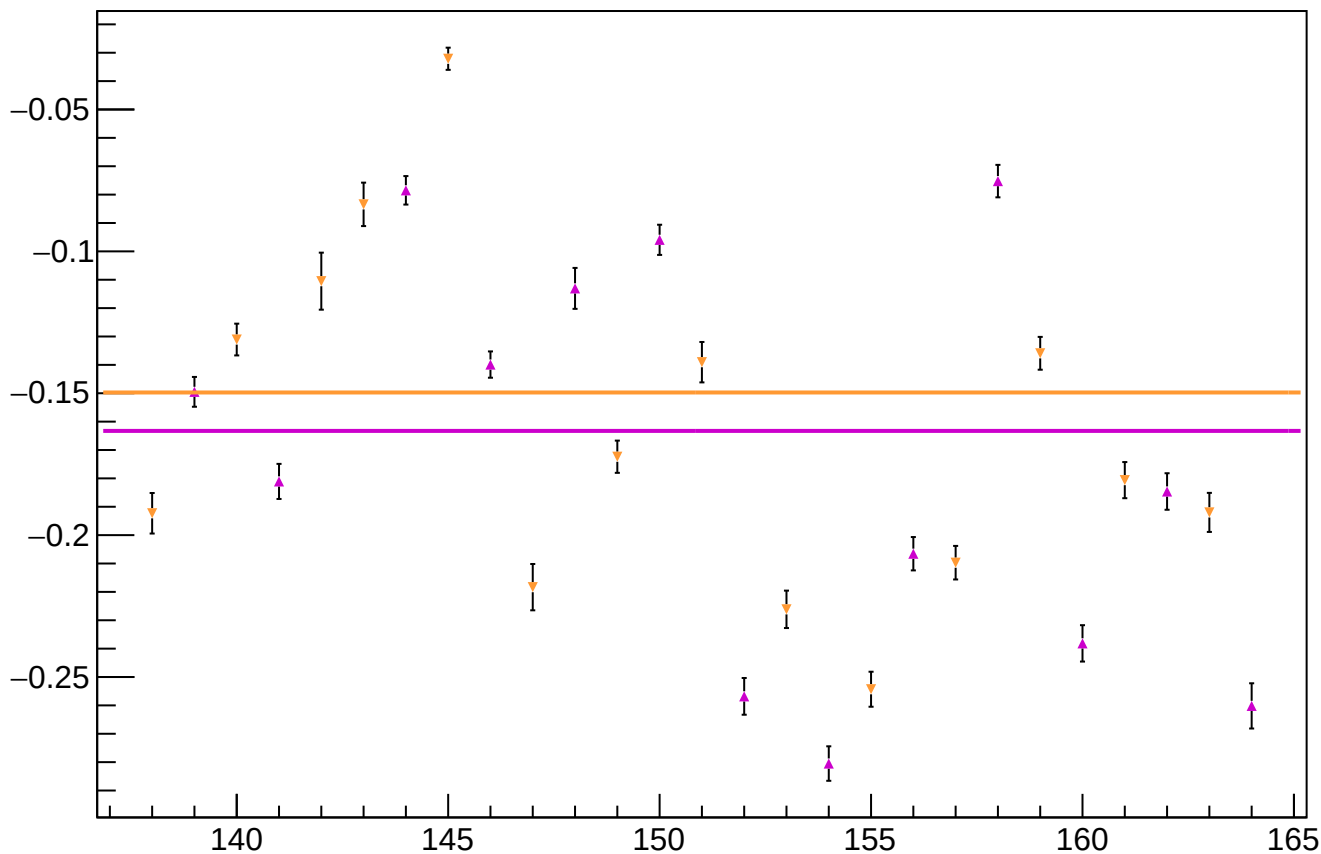
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 19.757+/-0.035  $\chi^2/\text{NDF}$ :18547.0/12

Out: 21.328+/-0.035  $\chi^2/\text{NDF}$ :14909.5/13

All: 20.525+/-0.025  $\chi^2/\text{NDF}$ : 34466.0/26

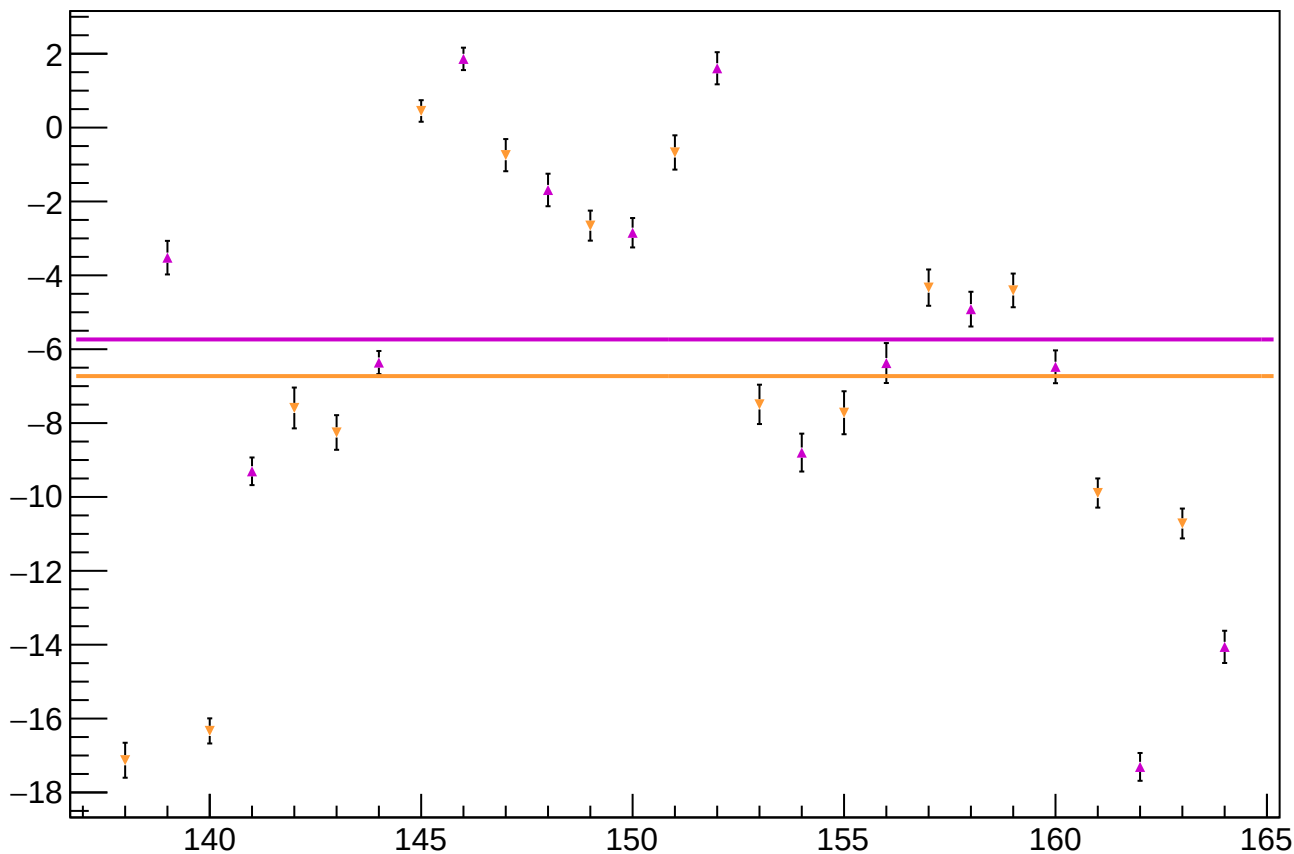
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.150+/-0.002  $\chi^2/\text{NDF}$ :1723.0/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.163+/-0.002  $\chi^2/\text{NDF}$ :1701.8/12

Left: -0.157+/-0.001  $\chi^2/\text{NDF}$ : 3458.7/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.163+/-0.002  $\chi^2/\text{NDF}$ :1701.8/12  
 Out: -0.150+/-0.002  $\chi^2/\text{NDF}$ :1723.0/13  
 All: -0.157+/-0.001  $\chi^2/\text{NDF}$ : 3458.7/26

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

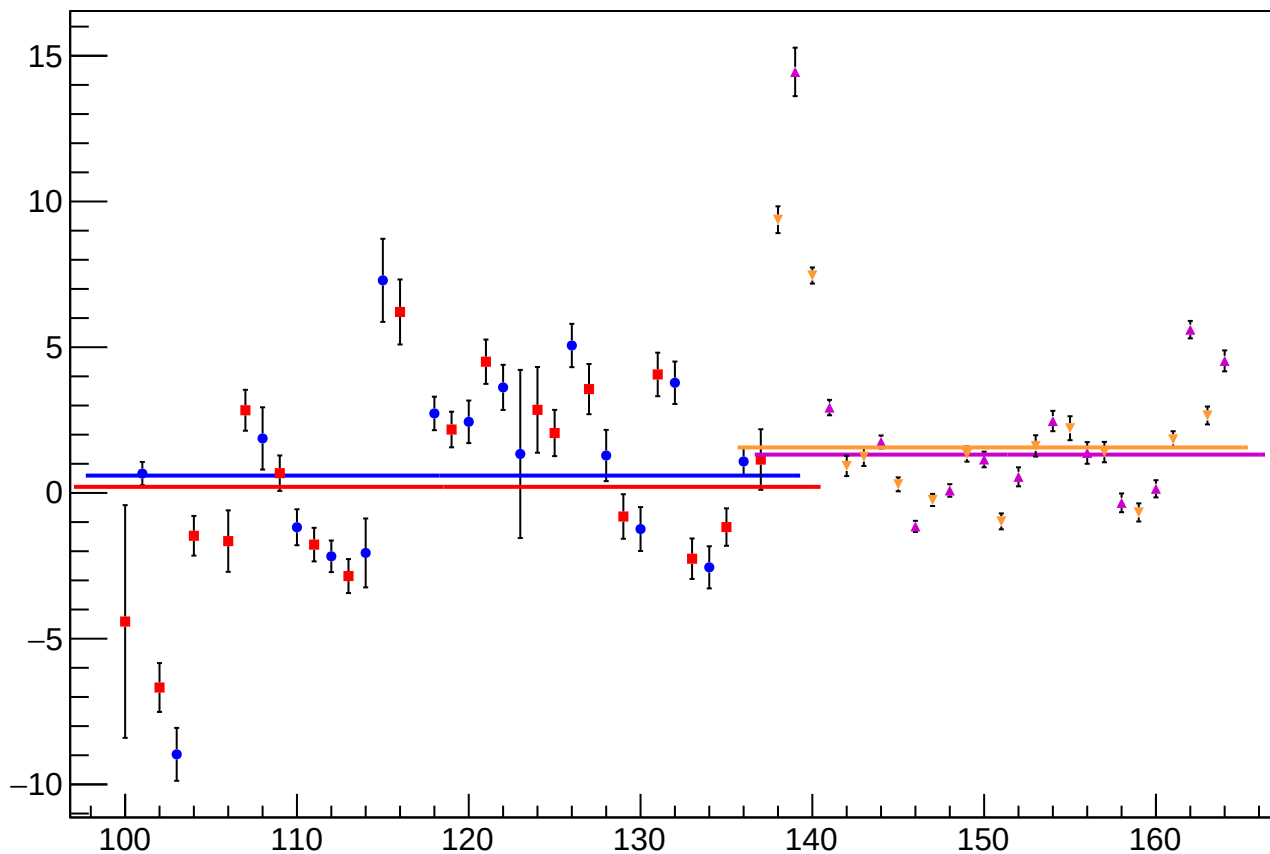


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.728+/-0.114  $\chi^2/\text{NDF}$ :2573.6/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.736+/-0.113  $\chi^2/\text{NDF}$ :2518.9/12

Left: -6.224+/-0.080  $\chi^2/\text{NDF}$ : 5130.8/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.736+/-0.113  $\chi^2/\text{NDF}$ :2518.9/12  
 Out: -6.728+/-0.114  $\chi^2/\text{NDF}$ :2573.6/13  
 All: -6.224+/-0.080  $\chi^2/\text{NDF}$ : 5130.8/26



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:  $1.561 \pm 0.079$   $\chi^2/\text{NDF}$ : 1007.7/13

Right Out:  $0.209 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.5/18

Left In:  $1.316 \pm 0.078$   $\chi^2/\text{NDF}$ : 832.3/12

Left:  $1.437 \pm 0.056$   $\chi^2/\text{NDF}$ : 1844.9/26

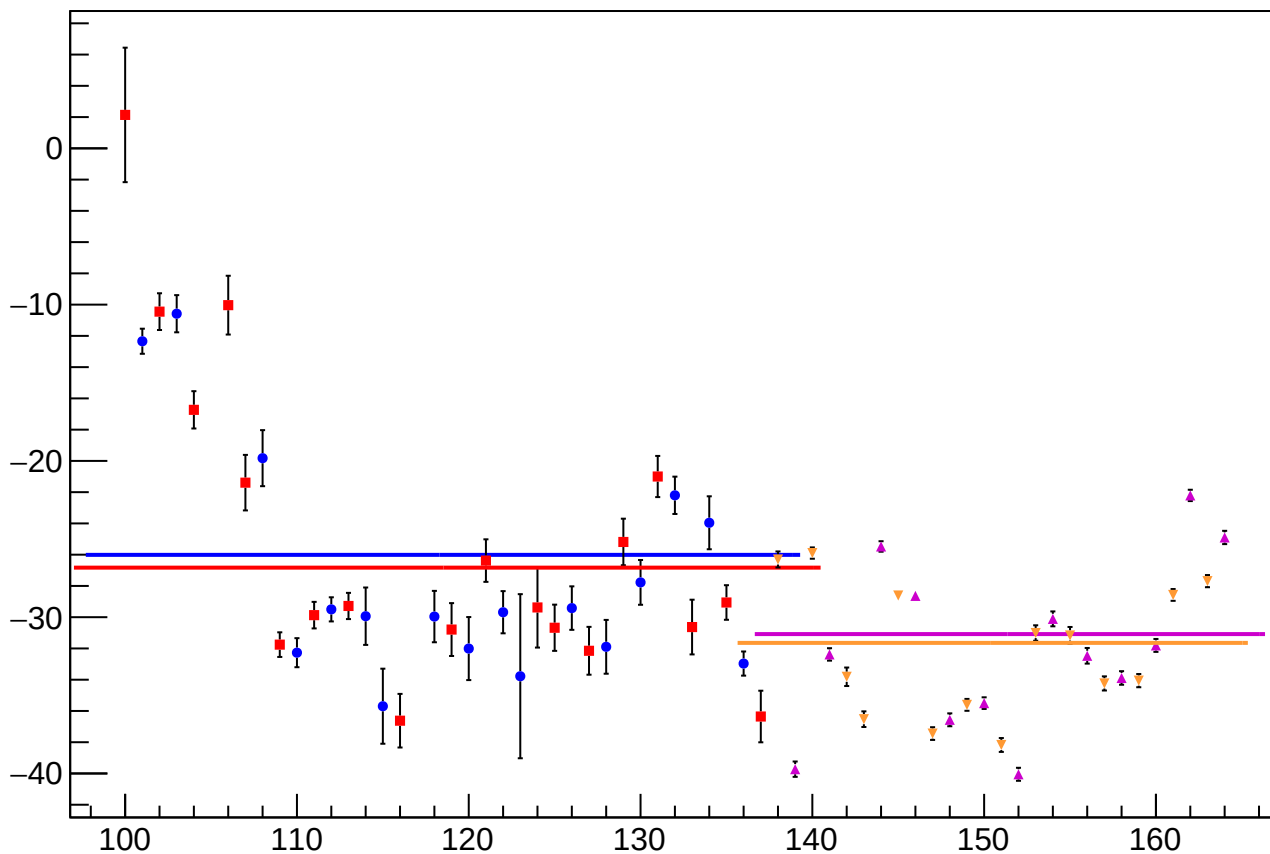
Right:  $0.409 \pm 0.121$   $\chi^2/\text{NDF}$ : 567.2/35

In:  $1.189 \pm 0.071$   $\chi^2/\text{NDF}$ : 1138.4/29

Out:  $1.331 \pm 0.072$   $\chi^2/\text{NDF}$ : 1330.9/32

All:  $1.259 \pm 0.051$   $\chi^2/\text{NDF}$ : 2471.3/62

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:  $-31.644 \pm 0.113$   $\chi^2/\text{NDF}$ : 1330.5/13

Right Out:  $-26.829 \pm 0.297$   $\chi^2/\text{NDF}$ : 581.6/18

Left In:  $-31.081 \pm 0.110$   $\chi^2/\text{NDF}$ : 2318.7/12

Left:  $-31.355 \pm 0.079$   $\chi^2/\text{NDF}$ : 3662.0/26

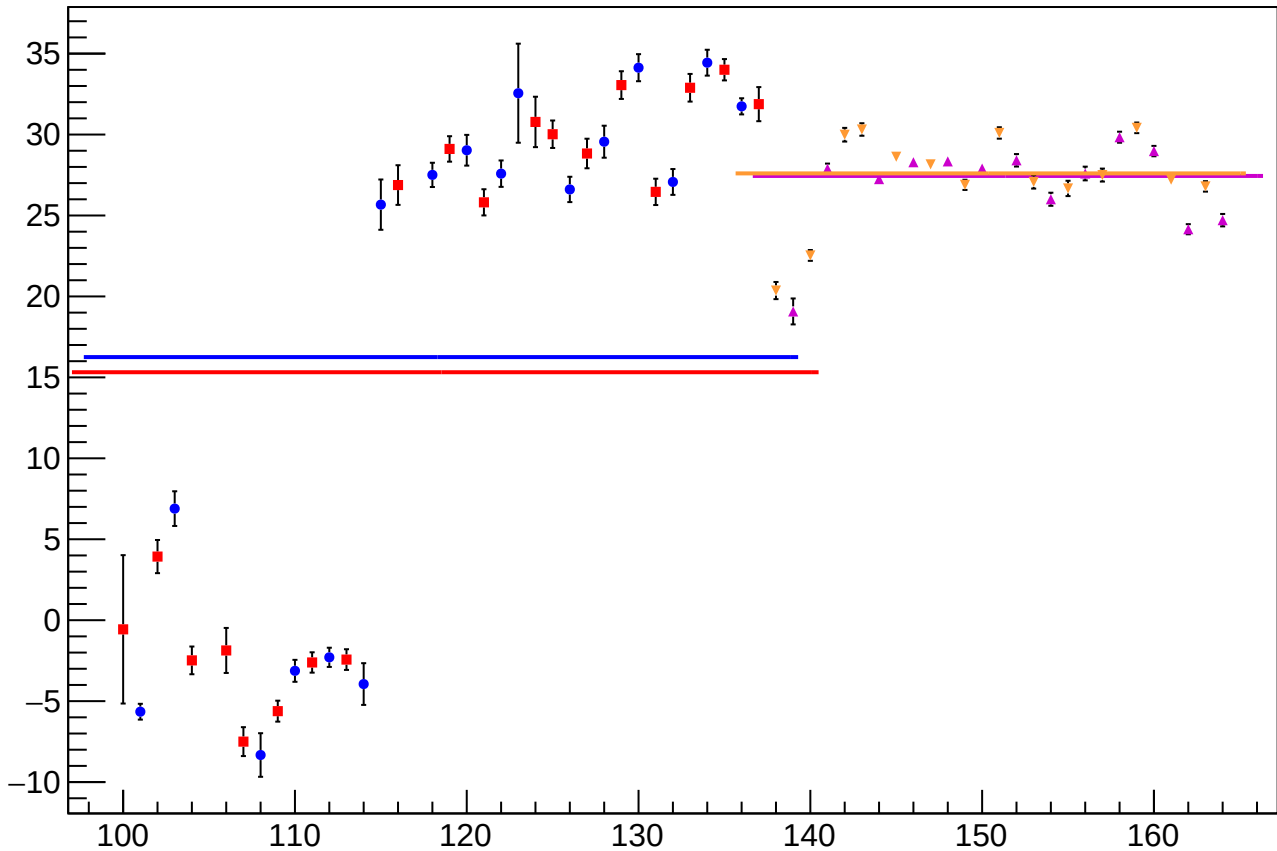
Right:  $-26.423 \pm 0.211$   $\chi^2/\text{NDF}$ : 1278.3/35

In:  $-30.479 \pm 0.103$   $\chi^2/\text{NDF}$ : 3264.0/29

Out:  $-31.037 \pm 0.106$   $\chi^2/\text{NDF}$ : 2141.0/32

All:  $-30.751 \pm 0.074$   $\chi^2/\text{NDF}$ : 5419.3/62

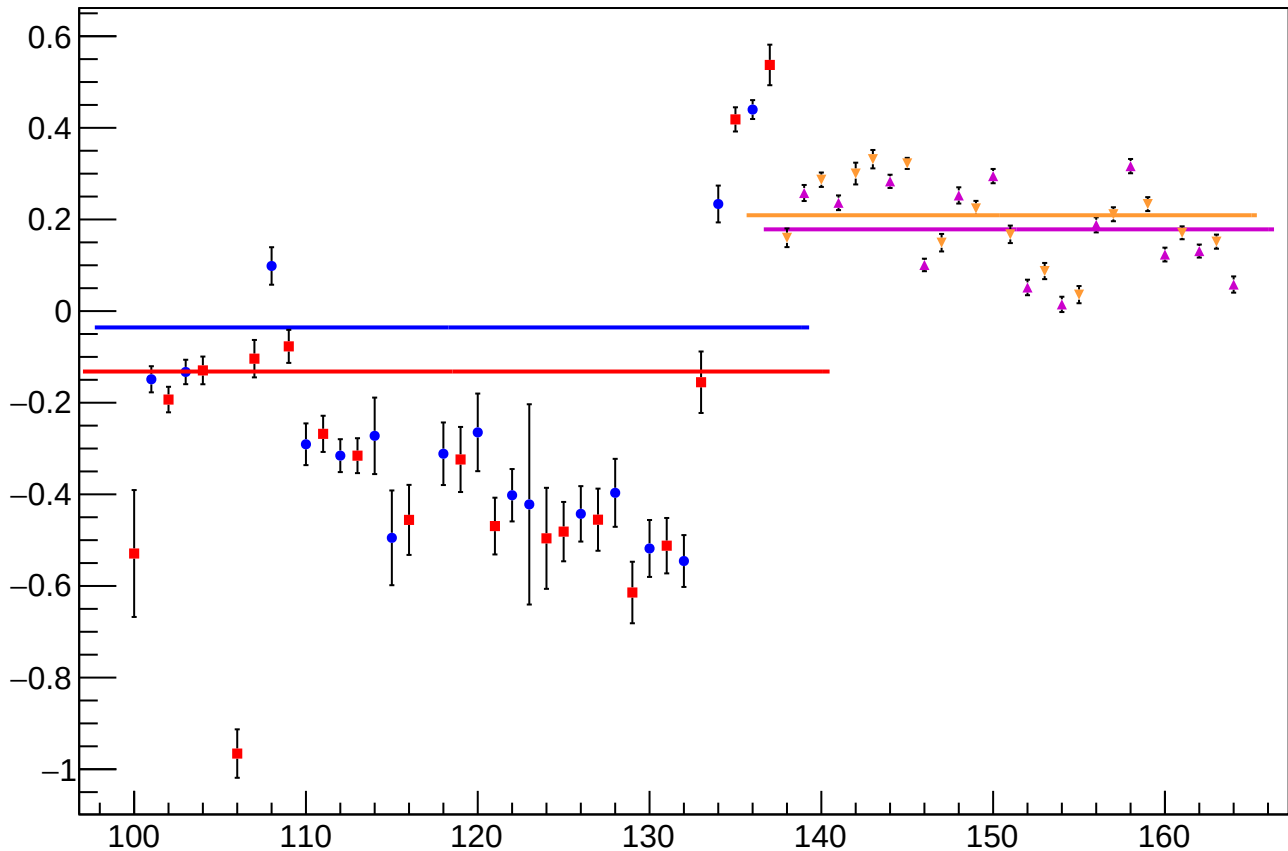
reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.253 $\pm$ 0.191  $\chi^2$ /NDF: 7611.3/16  
 Left Out: 27.600 $\pm$ 0.093  $\chi^2$ /NDF:657.6/13  
 Right Out: 15.318 $\pm$ 0.197  $\chi^2$ /NDF: 7280.1/18  
 Left In: 27.443 $\pm$ 0.092  $\chi^2$ /NDF:388.1/12

Left: 27.521 $\pm$ 0.065  $\chi^2$ /NDF: 1047.2/26  
 Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14903.0/35  
 In: 25.339 $\pm$ 0.083  $\chi^2$ /NDF:10785.8/29  
 Out: 25.356 $\pm$ 0.084  $\chi^2$ /NDF:11114.9/32  
 All: 25.348 $\pm$ 0.059  $\chi^2$ /NDF: 21900.7/62

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:  $0.209 \pm 0.004$   $\chi^2/\text{NDF}$ : 340.8/13

Right Out:  $-0.132 \pm 0.010$   $\chi^2/\text{NDF}$ : 1171.3/18

Left In:  $0.178 \pm 0.004$   $\chi^2/\text{NDF}$ : 492.5/12

Left:  $0.194 \pm 0.003$   $\chi^2/\text{NDF}$ : 857.6/26

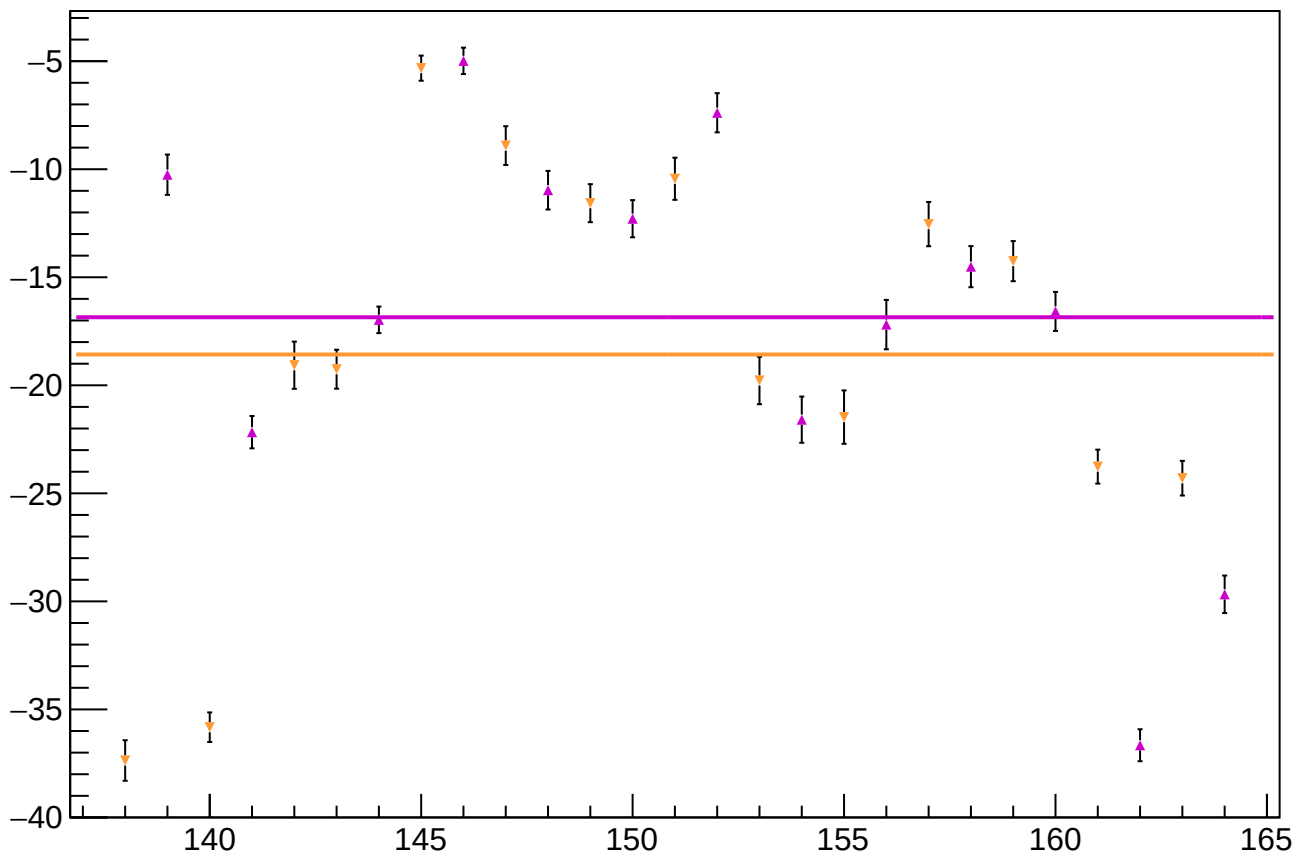
Right:  $-0.084 \pm 0.007$   $\chi^2/\text{NDF}$ : 2229.1/35

In:  $0.146 \pm 0.004$   $\chi^2/\text{NDF}$ : 1871.9/29

Out:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 2427.7/32

All:  $0.151 \pm 0.003$   $\chi^2/\text{NDF}$ : 4302.9/62

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out:  $-18.574 \pm 0.232$   $\chi^2/\text{NDF}$ : 1961.2/13

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

Left In:  $-16.851 \pm 0.228$   $\chi^2/\text{NDF}$ : 1618.0/12

Left:  $-17.699 \pm 0.163$   $\chi^2/\text{NDF}$ : 3607.3/26

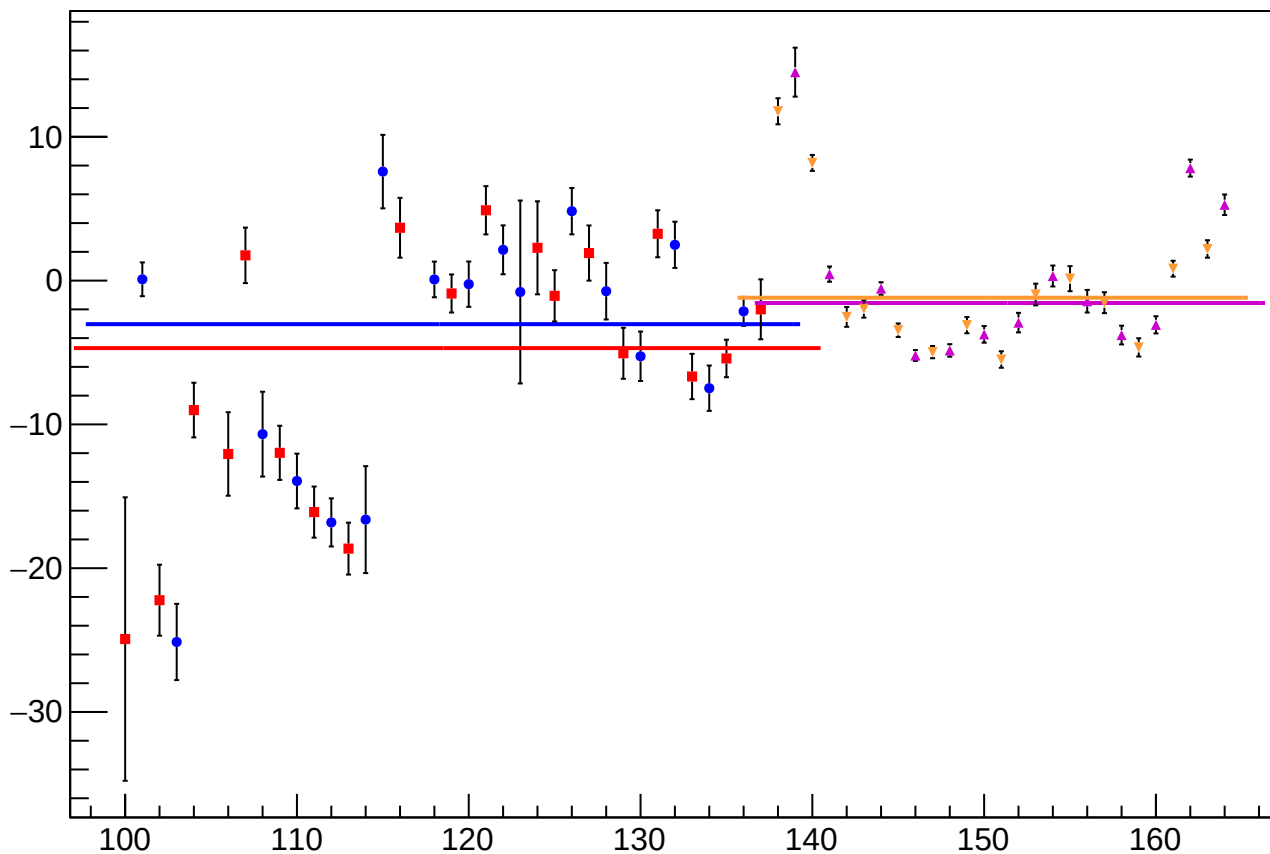
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-16.851 \pm 0.228$   $\chi^2/\text{NDF}$ : 1618.0/12

Out:  $-18.574 \pm 0.232$   $\chi^2/\text{NDF}$ : 1961.2/13

All:  $-17.699 \pm 0.163$   $\chi^2/\text{NDF}$ : 3607.3/26

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:  $-1.191 \pm 0.160$   $\chi^2/\text{NDF}$ : 741.3/13

Right Out:  $-4.694 \pm 0.427$   $\chi^2/\text{NDF}$ : 298.3/18

Left In:  $-1.557 \pm 0.158$   $\chi^2/\text{NDF}$ : 646.9/12

Left:  $-1.377 \pm 0.113$   $\chi^2/\text{NDF}$ : 1390.8/26

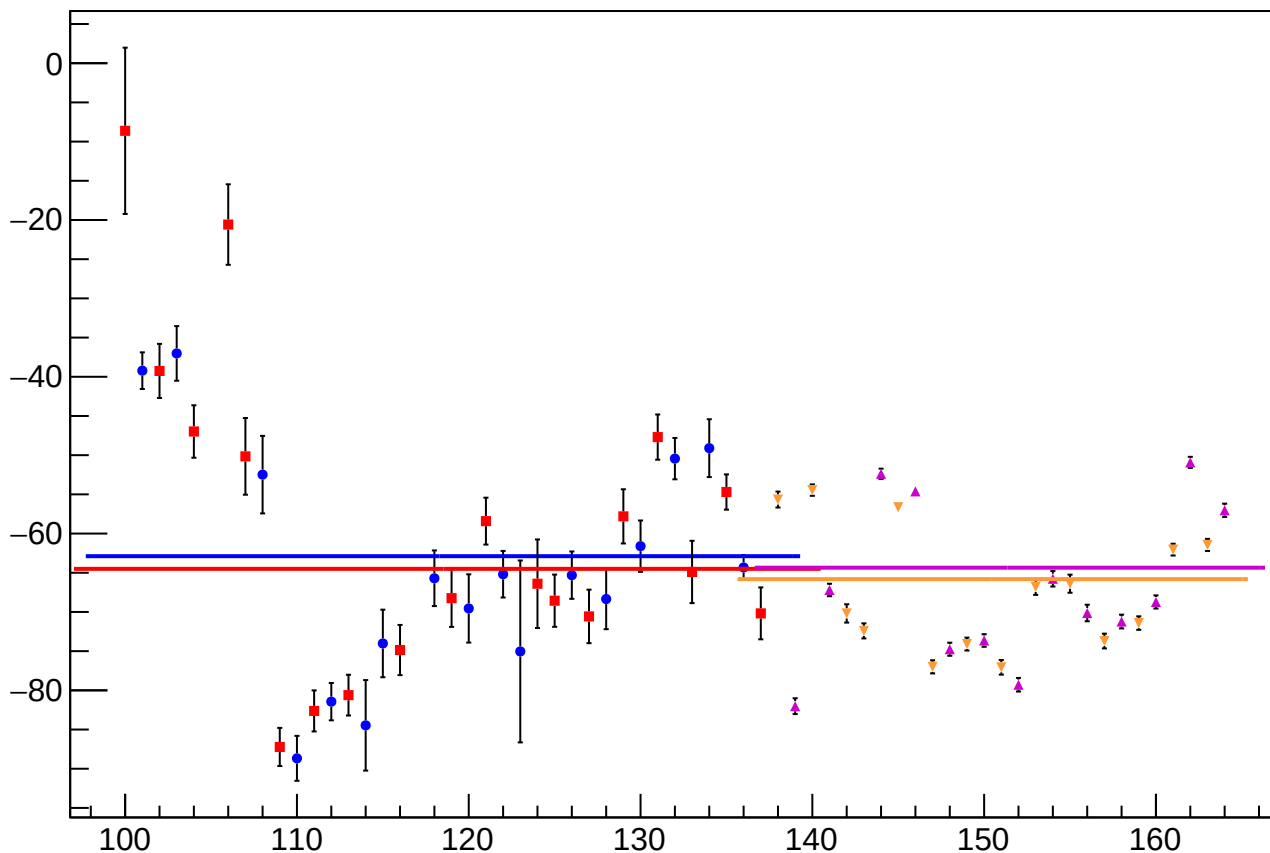
Right:  $-3.824 \pm 0.295$   $\chi^2/\text{NDF}$ : 587.0/35

In:  $-1.750 \pm 0.147$   $\chi^2/\text{NDF}$ : 939.0/29

Out:  $-1.625 \pm 0.150$   $\chi^2/\text{NDF}$ : 1098.6/32

All:  $-1.689 \pm 0.105$   $\chi^2/\text{NDF}$ : 2038.0/62

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:  $-65.813 \pm 0.230$   $\chi^2/\text{NDF}: 1219.6/13$

Right Out:  $-64.502 \pm 0.751$   $\chi^2/\text{NDF}: 444.1/18$

Left In:  $-64.353 \pm 0.223$   $\chi^2/\text{NDF}: 2059.9/12$

Left:  $-65.063 \pm 0.160$   $\chi^2/\text{NDF}: 3300.3/26$

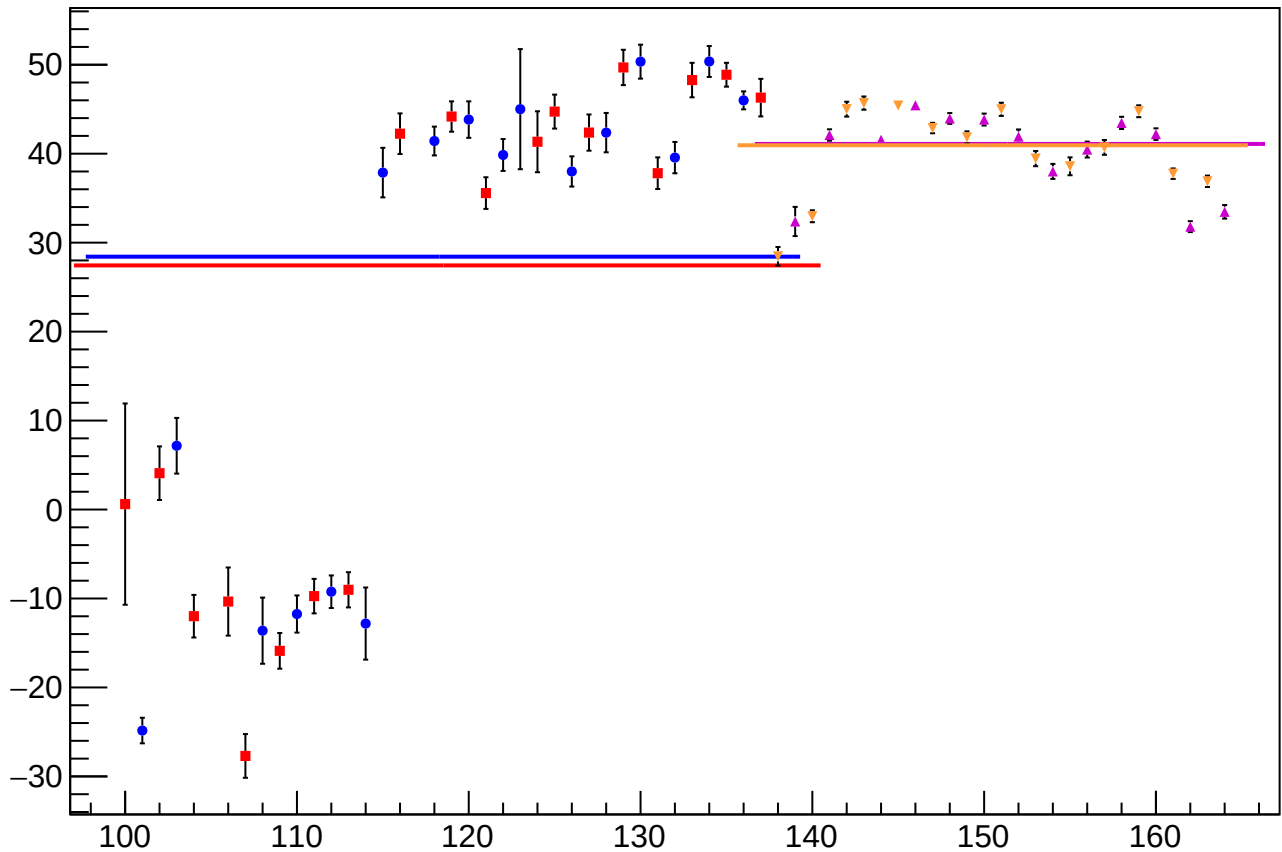
Right:  $-63.680 \pm 0.526$   $\chi^2/\text{NDF}: 815.2/35$

In:  $-64.230 \pm 0.214$   $\chi^2/\text{NDF}: 2432.3/29$

Out:  $-65.701 \pm 0.220$   $\chi^2/\text{NDF}: 1666.5/32$

All:  $-64.945 \pm 0.153$   $\chi^2/\text{NDF}: 4121.8/62$

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: 40.947 $\pm$ 0.189  $\chi^2$ /NDF: 567.7/13

Right Out: 27.441 $\pm$ 0.479  $\chi^2$ /NDF: 3033.0/18

Left In: 41.097 $\pm$ 0.186  $\chi^2$ /NDF: 511.5/12

Left: 41.024 $\pm$ 0.133  $\chi^2$ /NDF: 1079.5/26

Right: 27.956 $\pm$ 0.331  $\chi^2$ /NDF: 6365.5/35

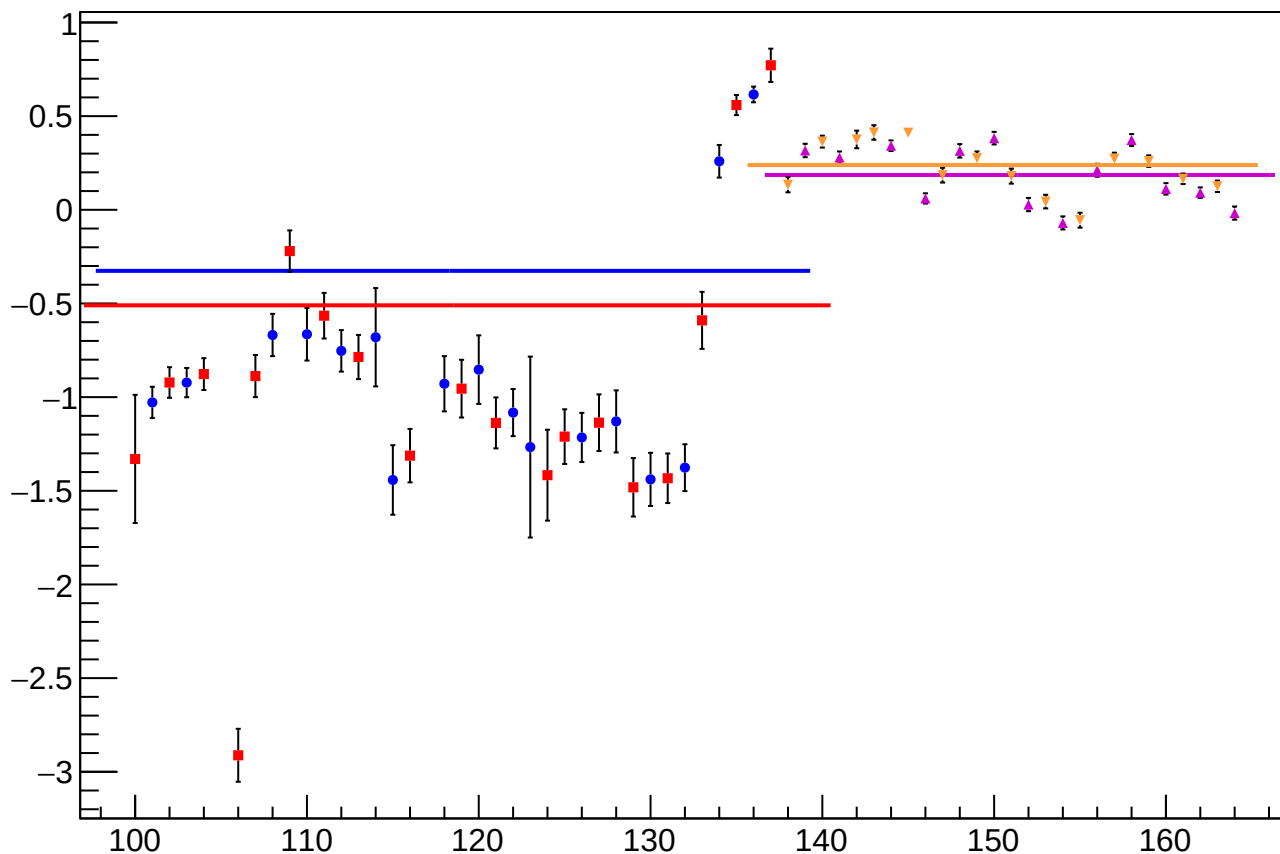
In: 39.297 $\pm$ 0.172  $\chi^2$ /NDF: 4501.3/29

Out: 39.124 $\pm$ 0.176  $\chi^2$ /NDF: 4289.4/32

All: 39.212 $\pm$ 0.123  $\chi^2$ /NDF: 8791.2/62



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:  $0.239 \pm 0.009$   $\chi^2/\text{NDF}$ : 212.2/13

Right Out:  $-0.510 \pm 0.026$   $\chi^2/\text{NDF}$ : 1169.4/18

Left In:  $0.186 \pm 0.009$   $\chi^2/\text{NDF}$ : 279.3/12

Left:  $0.212 \pm 0.006$   $\chi^2/\text{NDF}$ : 508.9/26

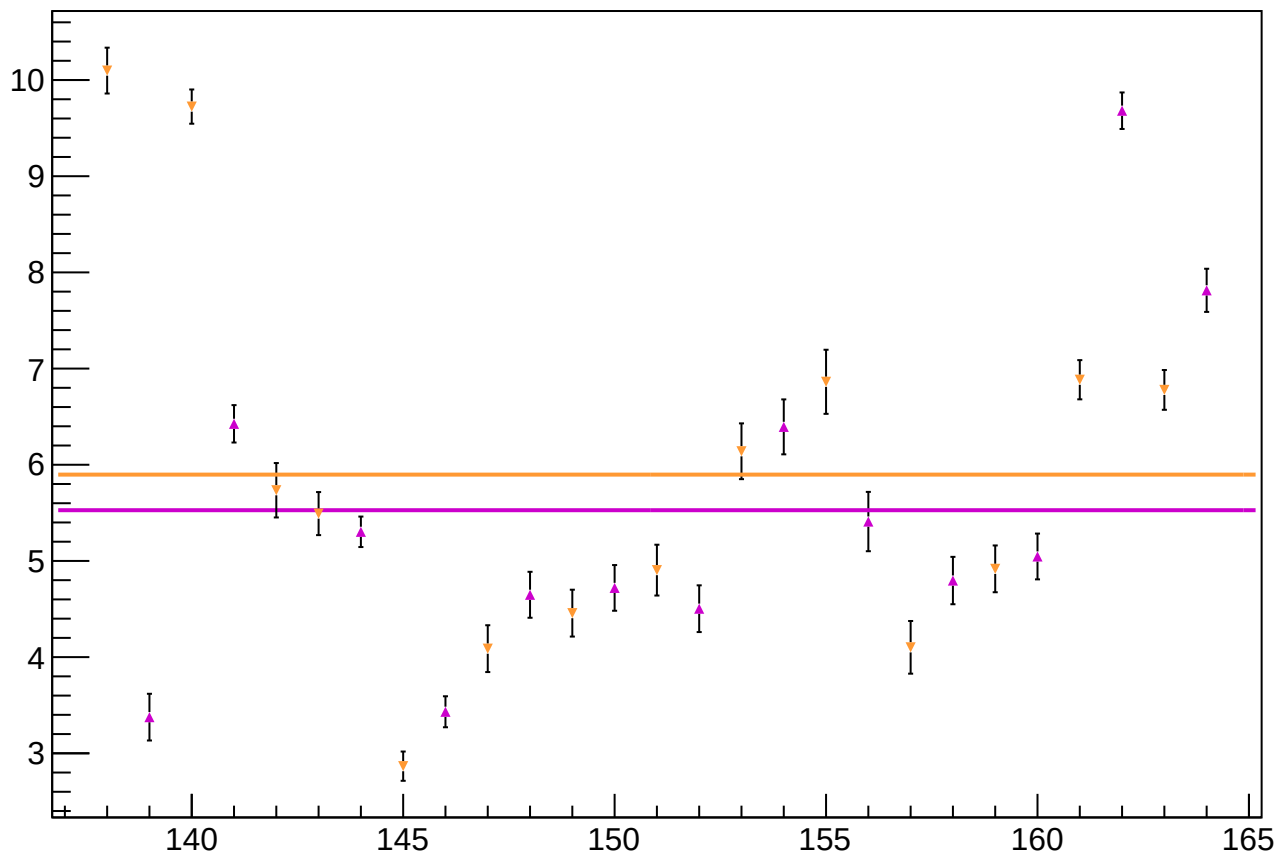
Right:  $-0.415 \pm 0.018$   $\chi^2/\text{NDF}$ : 2208.8/35

In:  $0.128 \pm 0.008$   $\chi^2/\text{NDF}$ : 1666.7/29

Out:  $0.156 \pm 0.009$   $\chi^2/\text{NDF}$ : 2137.1/32

All:  $0.142 \pm 0.006$   $\chi^2/\text{NDF}$ : 3809.6/62

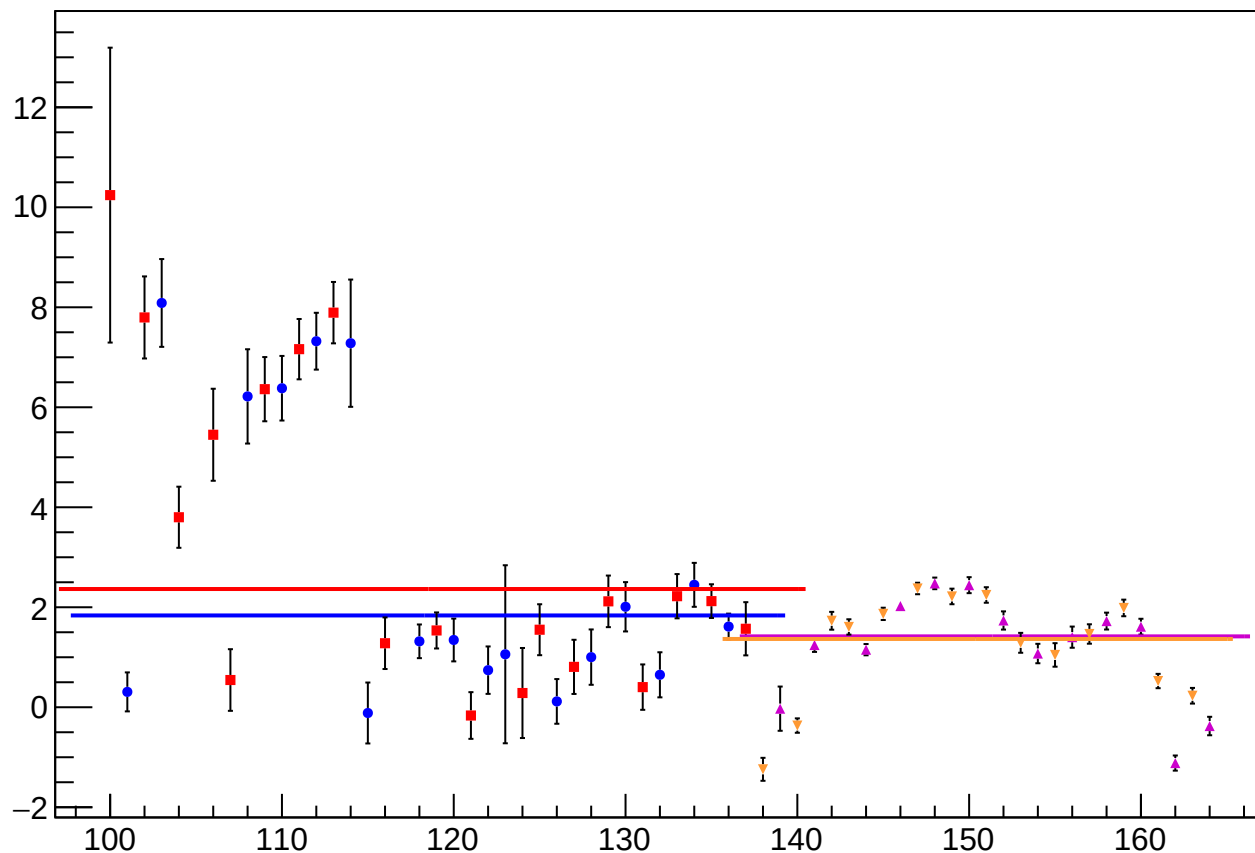
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.898 +/- 0.061  $\chi^2/\text{NDF}$ : 1387.3/13  
 Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.527 +/- 0.060  $\chi^2/\text{NDF}$ : 918.5/12

Left: 5.710 +/- 0.043  $\chi^2/\text{NDF}$ : 2324.7/26  
 Right: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.527 +/- 0.060  $\chi^2/\text{NDF}$ : 918.5/12  
 Out: 5.898 +/- 0.061  $\chi^2/\text{NDF}$ : 1387.3/13  
 All: 5.710 +/- 0.043  $\chi^2/\text{NDF}$ : 2324.7/26

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: 1.366 $\pm$ 0.042  $\chi^2$ /NDF:538.3/13

Right Out: 2.365 $\pm$ 0.123  $\chi^2$ /NDF: 336.4/18

Left In: 1.418 $\pm$ 0.041  $\chi^2$ /NDF:566.2/12

Left: 1.392 $\pm$ 0.030  $\chi^2$ /NDF: 1105.2/26

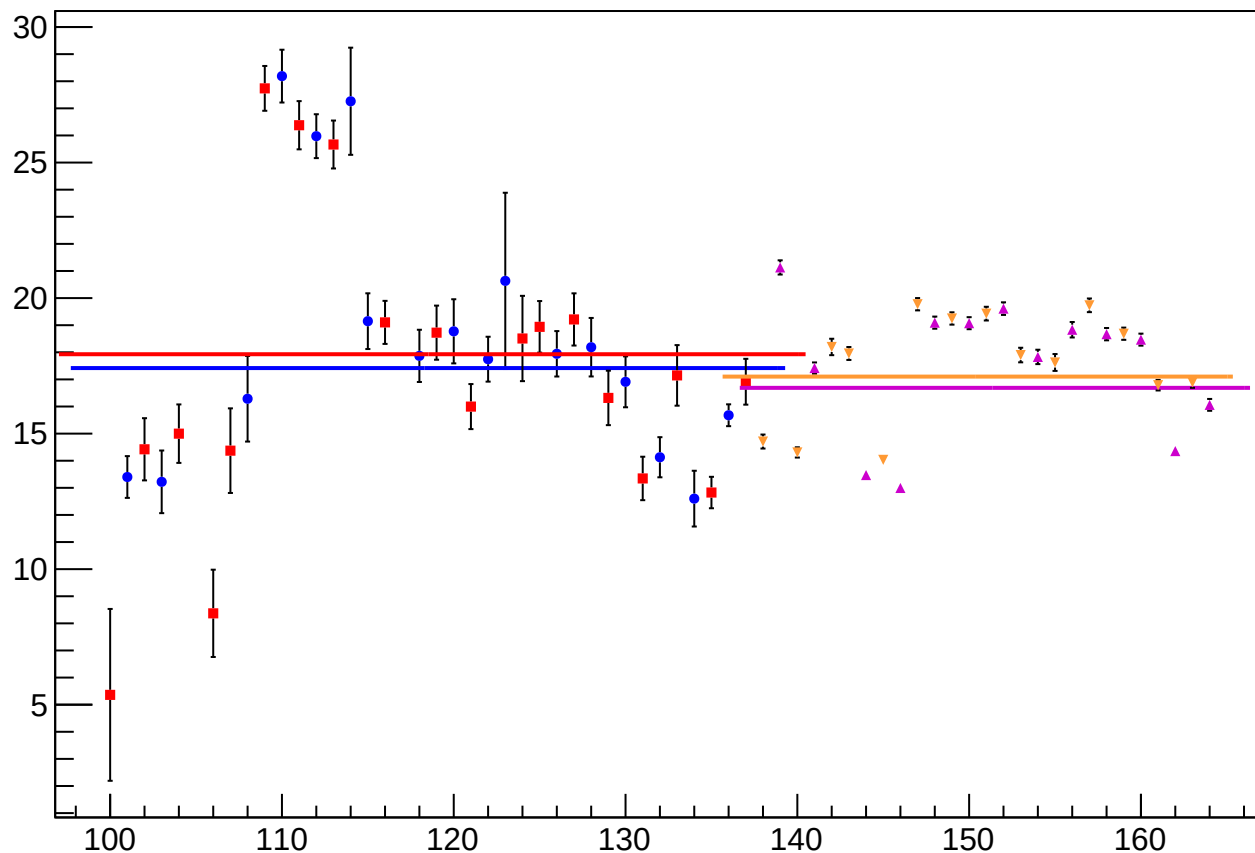
Right: 2.086 $\pm$ 0.084  $\chi^2$ /NDF: 641.1/35

In: 1.465 $\pm$ 0.039  $\chi^2$ /NDF:872.6/29

Out: 1.472 $\pm$ 0.040  $\chi^2$ /NDF:934.0/32

All: 1.468 $\pm$ 0.028  $\chi^2$ /NDF: 1806.6/62

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: 17.104 $\pm$ 0.060  $\chi^2$ /NDF:1174.8/13

Right Out: 17.929 $\pm$ 0.219  $\chi^2$ /NDF: 506.3/18

Left In: 16.689 $\pm$ 0.059  $\chi^2$ /NDF:2003.7/12

Left: 16.891 $\pm$ 0.042  $\chi^2$ /NDF: 3202.8/26

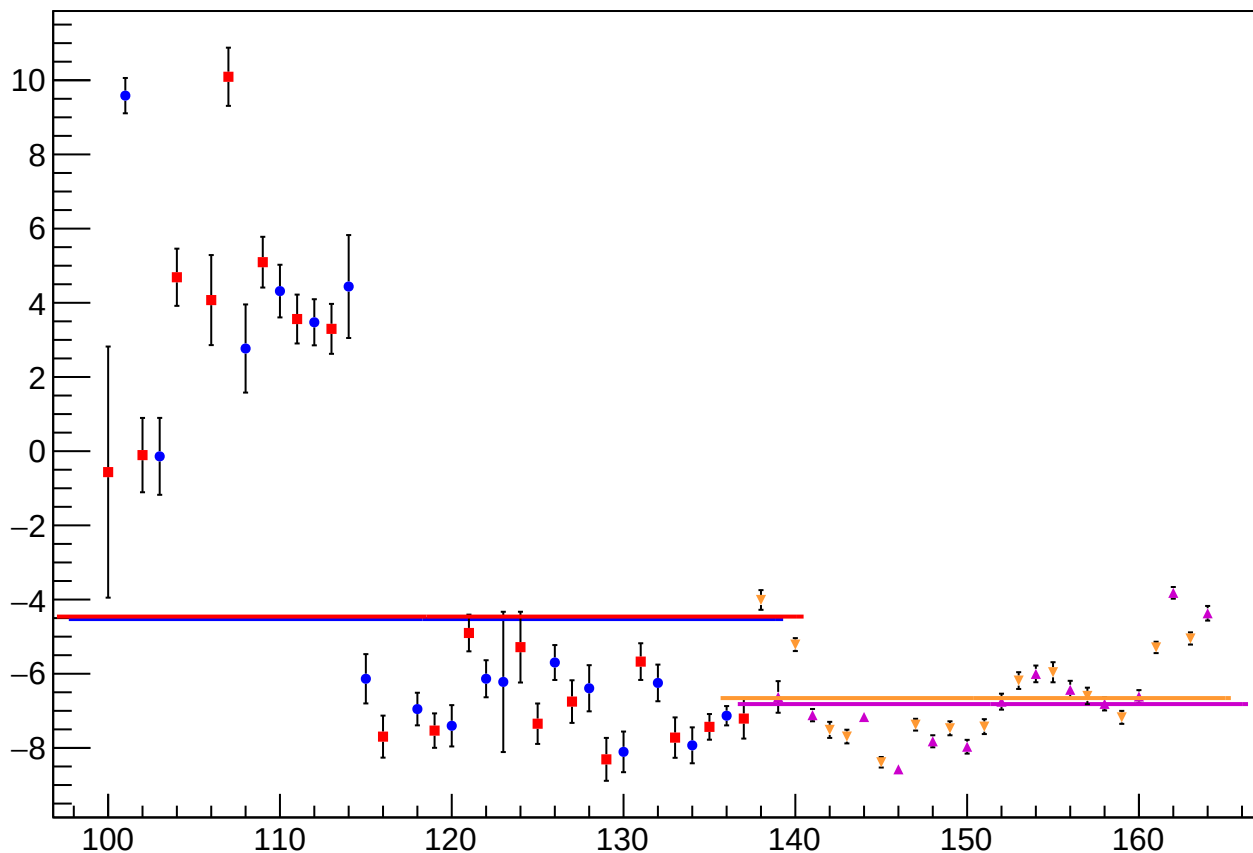
Right: 17.665 $\pm$ 0.152  $\chi^2$ /NDF: 876.0/35

In: 16.741 $\pm$ 0.057  $\chi^2$ /NDF:2381.5/29

Out: 17.162 $\pm$ 0.058  $\chi^2$ /NDF:1694.3/32

All: 16.946 $\pm$ 0.041  $\chi^2$ /NDF: 4102.9/62

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:  $-6.656 \pm 0.050$   $\chi^2/\text{NDF}: 611.3/13$

Right Out:  $-4.459 \pm 0.137$   $\chi^2/\text{NDF}: 1338.9/18$

Left In:  $-6.818 \pm 0.049$   $\chi^2/\text{NDF}: 819.6/12$

Left:  $-6.738 \pm 0.035$   $\chi^2/\text{NDF}: 1436.3/26$

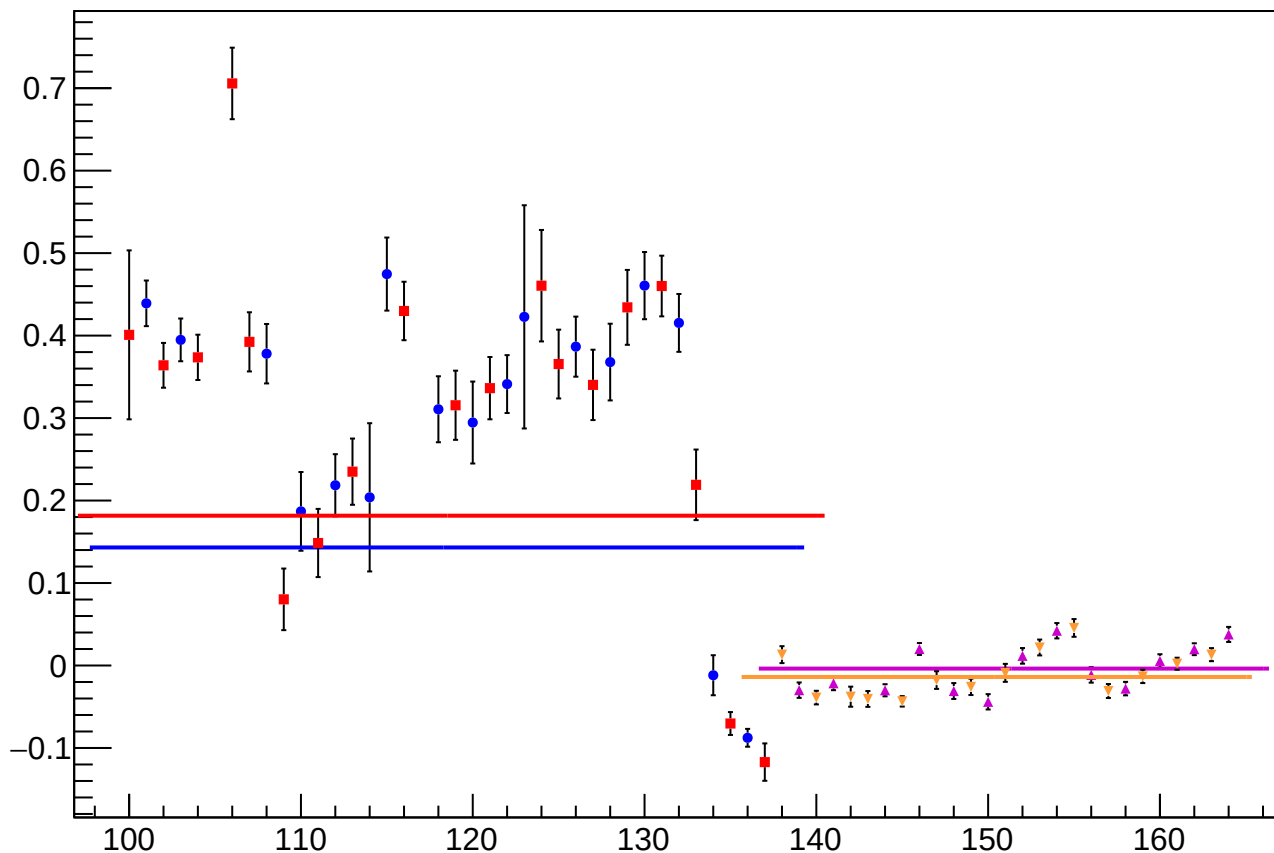
Right:  $-4.494 \pm 0.094$   $\chi^2/\text{NDF}: 2929.2/35$

In:  $-6.532 \pm 0.046$   $\chi^2/\text{NDF}: 2684.0/29$

Out:  $-6.401 \pm 0.047$   $\chi^2/\text{NDF}: 2177.6/32$

All:  $-6.468 \pm 0.033$   $\chi^2/\text{NDF}: 4865.6/62$

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.143 $\pm$ 0.007  $\chi^2$ /NDF: 1060.4/16

Left Out: -0.014 $\pm$ 0.002  $\chi^2$ /NDF:116.1/13

Right Out: 0.182 $\pm$ 0.007  $\chi^2$ /NDF: 1007.8/18

Left In: -0.004 $\pm$ 0.002  $\chi^2$ /NDF:131.8/12

Left: -0.009 $\pm$ 0.002  $\chi^2$ /NDF: 257.1/26

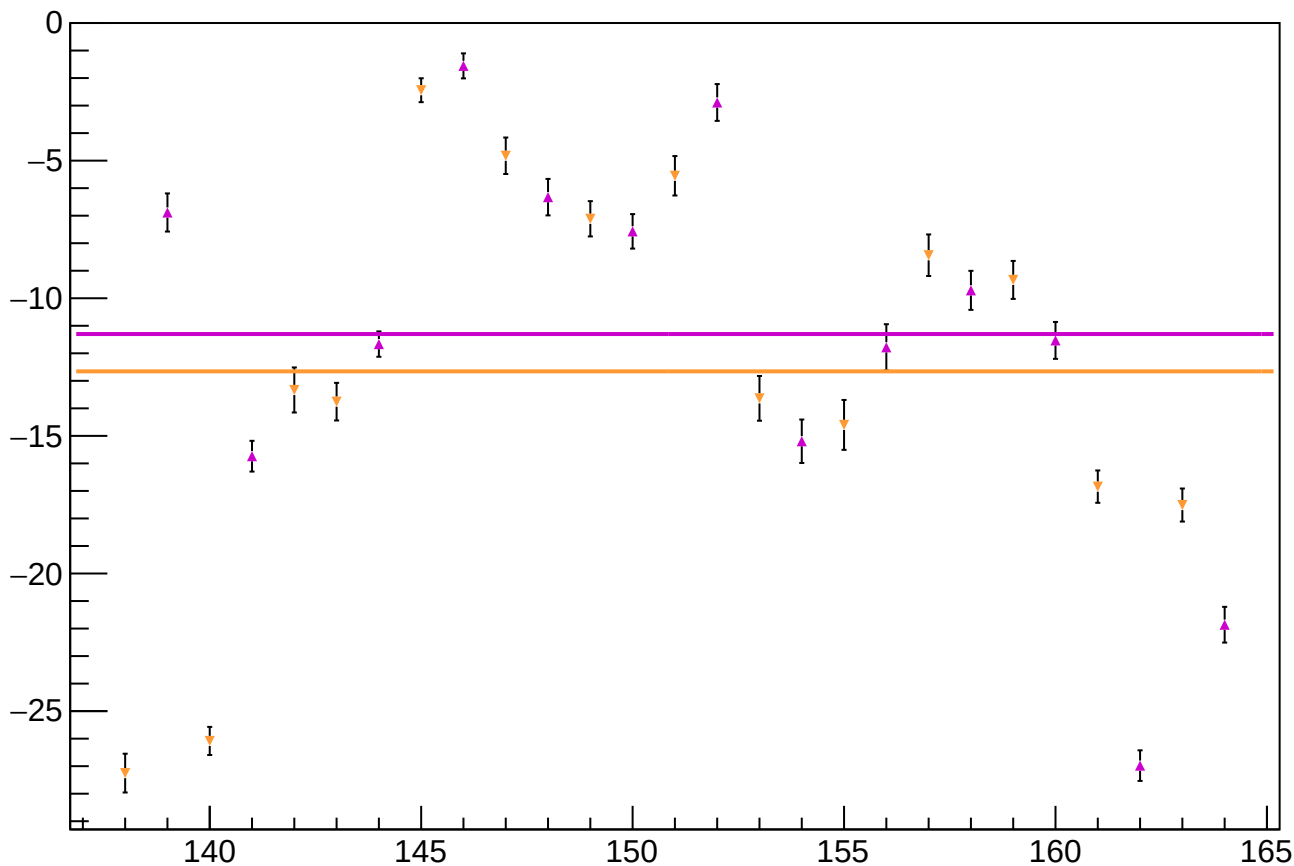
Right: 0.161 $\pm$ 0.005  $\chi^2$ /NDF: 2082.4/35

In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF:1582.8/29

Out: 0.004 $\pm$ 0.002  $\chi^2$ /NDF:1759.0/32

All: 0.008 $\pm$ 0.002  $\chi^2$ /NDF: 3346.0/62

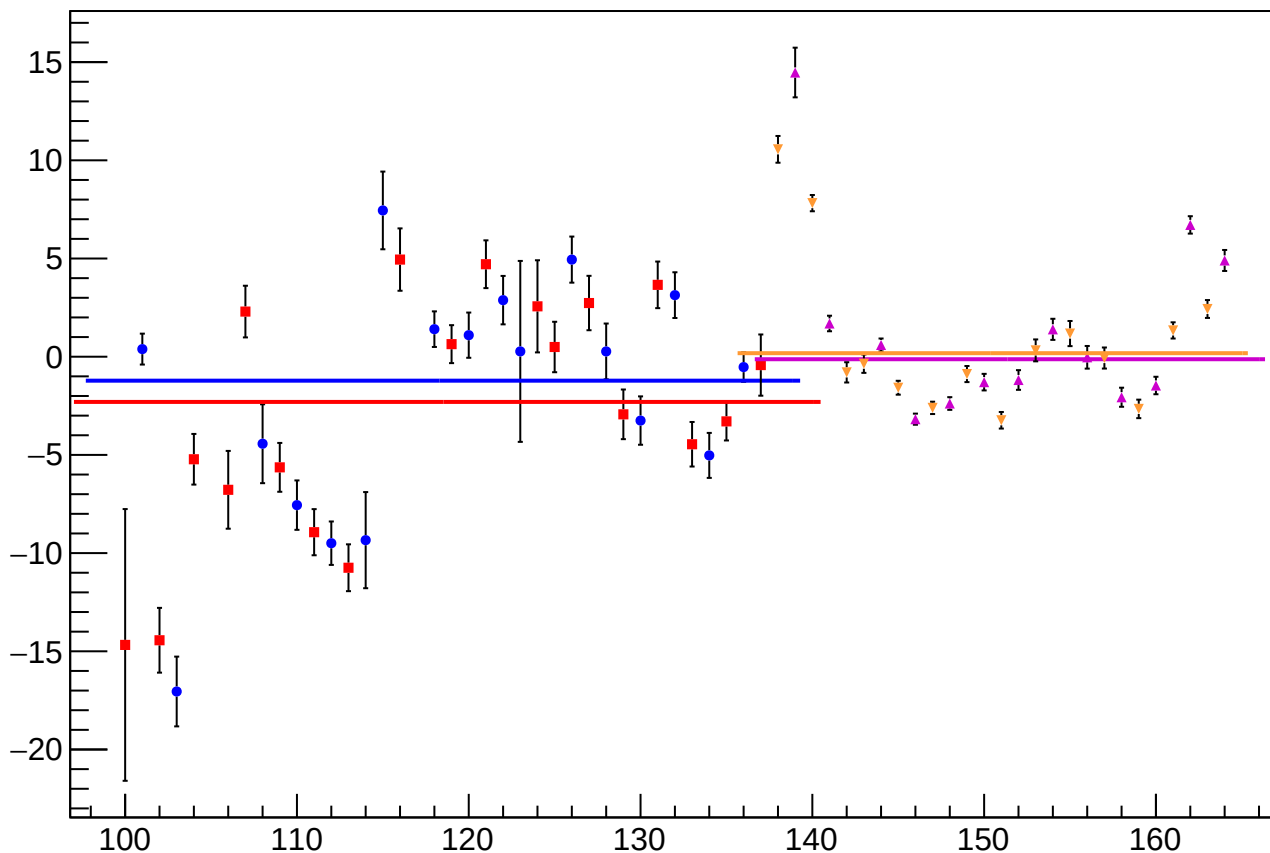
reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -12.656+/-0.172  $\chi^2/\text{NDF}$ :2167.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -11.300+/-0.170  $\chi^2/\text{NDF}$ :1904.1/12

Left: -11.968+/-0.121  $\chi^2/\text{NDF}$ : 4102.9/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -11.300+/-0.170  $\chi^2/\text{NDF}$ :1904.1/12  
 Out: -12.656+/-0.172  $\chi^2/\text{NDF}$ :2167.3/13  
 All: -11.968+/-0.121  $\chi^2/\text{NDF}$ : 4102.9/26

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:  $0.180 \pm 0.119$   $\chi^2/\text{NDF}$ : 824.3/13

Right Out:  $-2.302 \pm 0.302$   $\chi^2/\text{NDF}$ : 286.2/18

Left In:  $-0.128 \pm 0.118$   $\chi^2/\text{NDF}$ : 696.6/12

Left:  $0.023 \pm 0.084$   $\chi^2/\text{NDF}$ : 1524.2/26

Right:  $-1.738 \pm 0.209$   $\chi^2/\text{NDF}$ : 571.5/35

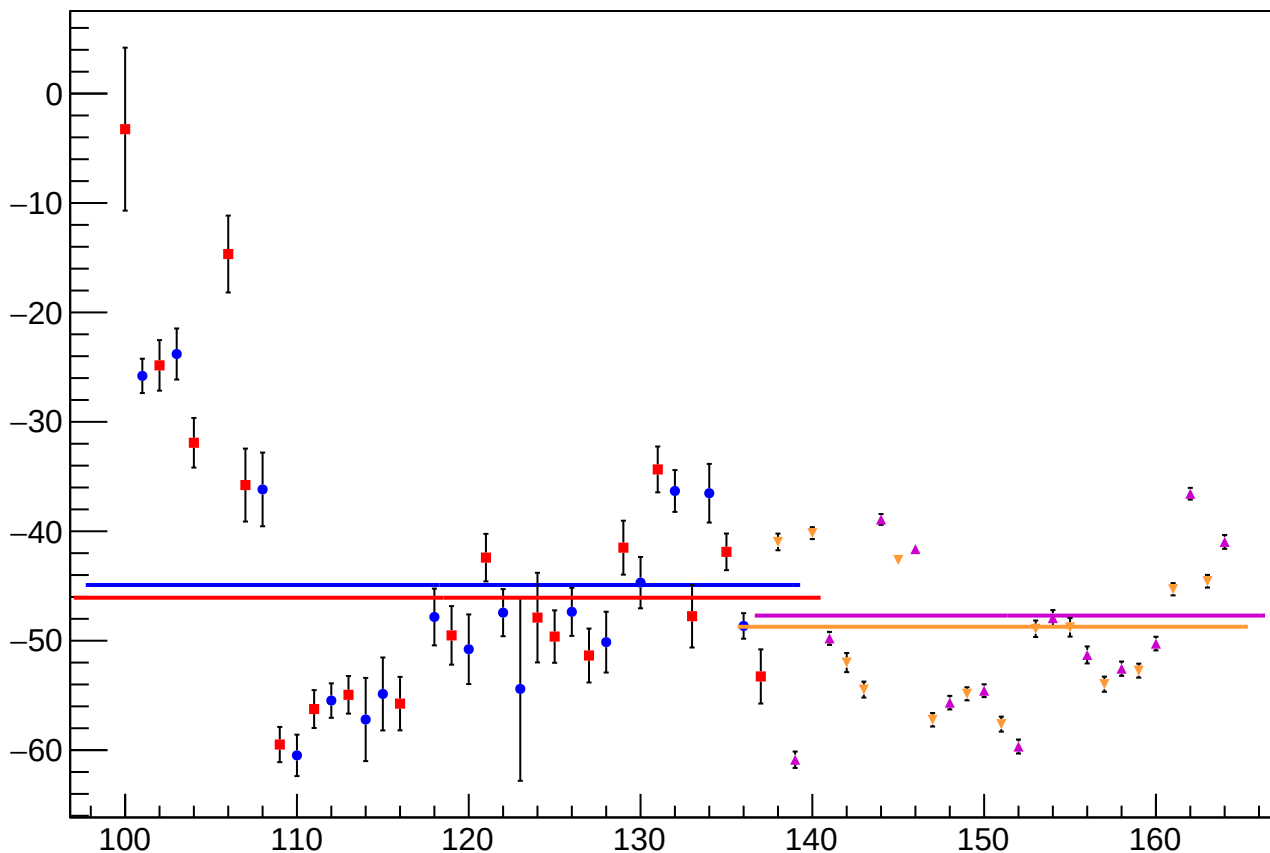
In:  $-0.283 \pm 0.109$   $\chi^2/\text{NDF}$ : 987.3/29

Out:  $-0.154 \pm 0.111$   $\chi^2/\text{NDF}$ : 1168.7/32

All:  $-0.220 \pm 0.078$   $\chi^2/\text{NDF}$ : 2156.8/62



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:  $-48.726 \pm 0.171$   $\chi^2/\text{NDF}$ : 1249.6/13

Right Out:  $-46.071 \pm 0.528$   $\chi^2/\text{NDF}$ : 454.0/18

Left In:  $-47.705 \pm 0.166$   $\chi^2/\text{NDF}$ : 2122.7/12

Left:  $-48.201 \pm 0.119$   $\chi^2/\text{NDF}$ : 3390.7/26

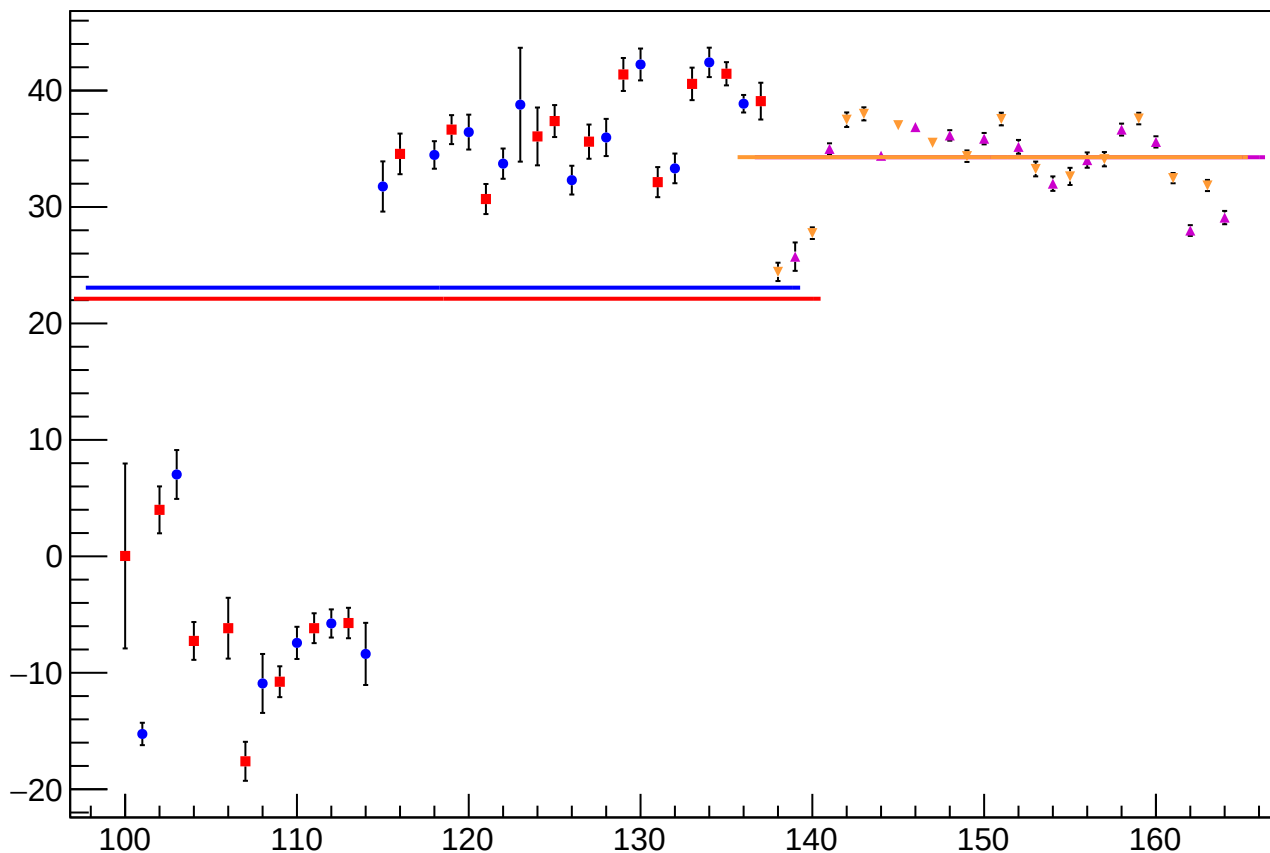
Right:  $-45.483 \pm 0.371$   $\chi^2/\text{NDF}$ : 877.6/35

In:  $-47.449 \pm 0.158$   $\chi^2/\text{NDF}$ : 2569.9/29

Out:  $-48.475 \pm 0.162$   $\chi^2/\text{NDF}$ : 1726.5/32

All:  $-47.948 \pm 0.113$   $\chi^2/\text{NDF}$ : 4316.9/62

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: 34.280 $\pm$ 0.141  $\chi^2$ /NDF:580.8/13

Right Out: 22.122 $\pm$ 0.340  $\chi^2$ /NDF: 4034.4/18

Left In: 34.273 $\pm$ 0.138  $\chi^2$ /NDF:445.1/12

Left: 34.276 $\pm$ 0.099  $\chi^2$ /NDF: 1025.9/26

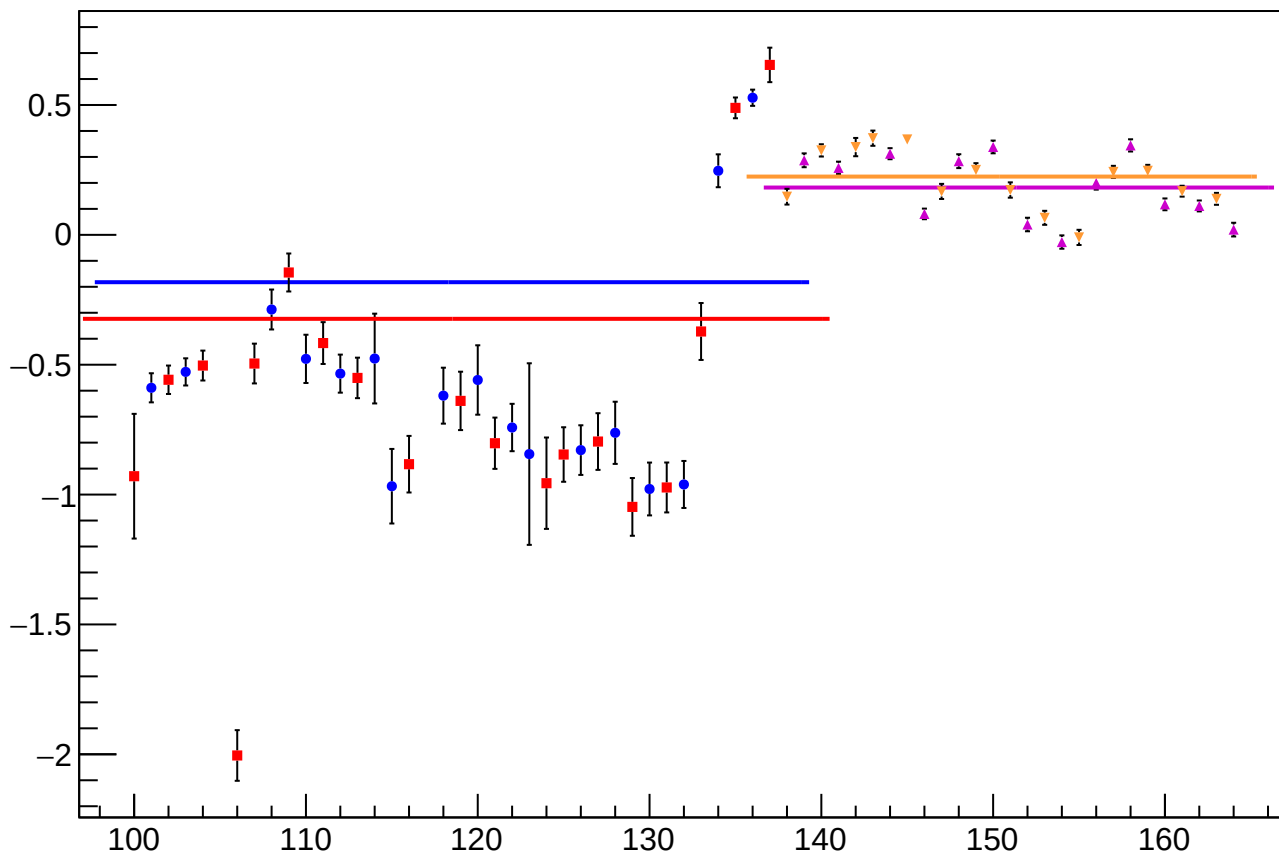
Right: 22.617 $\pm$ 0.235  $\chi^2$ /NDF: 8384.4/35

In: 32.563 $\pm$ 0.127  $\chi^2$ /NDF:5791.1/29

Out: 32.505 $\pm$ 0.130  $\chi^2$ /NDF:5708.0/32

All: 32.535 $\pm$ 0.091  $\chi^2$ /NDF: 11499.2/62

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:  $0.224 \pm 0.007$   $\chi^2/\text{NDF}$ : 252.5/13

Right Out:  $-0.323 \pm 0.018$   $\chi^2/\text{NDF}$ : 1184.5/18

Left In:  $0.182 \pm 0.007$   $\chi^2/\text{NDF}$ : 344.2/12

Left:  $0.203 \pm 0.005$   $\chi^2/\text{NDF}$ : 616.7/26

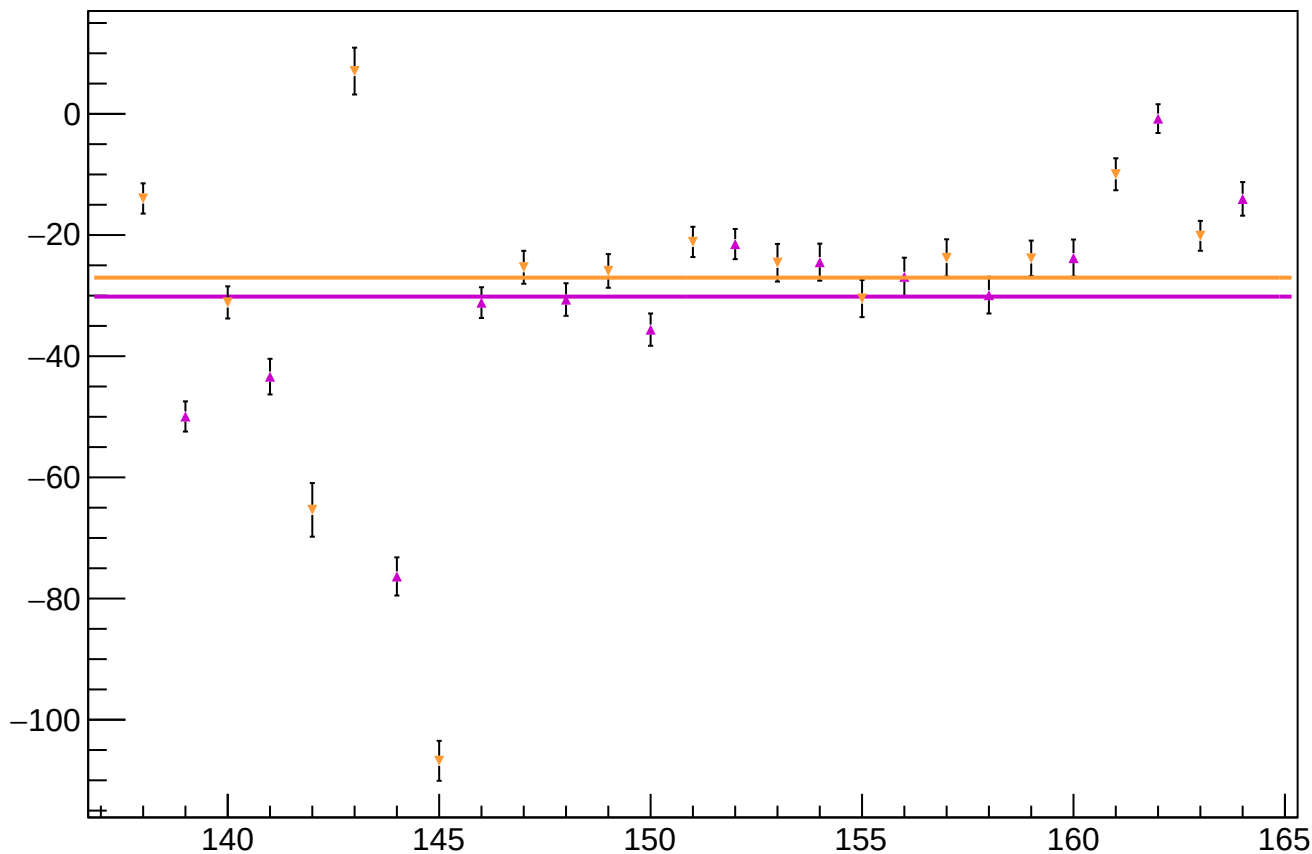
Right:  $-0.251 \pm 0.013$   $\chi^2/\text{NDF}$ : 2213.4/35

In:  $0.137 \pm 0.006$   $\chi^2/\text{NDF}$ : 1713.1/29

Out:  $0.158 \pm 0.006$   $\chi^2/\text{NDF}$ : 2236.9/32

All:  $0.148 \pm 0.004$   $\chi^2/\text{NDF}$ : 3955.7/62

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: -27.033+/-0.773  $\chi^2/\text{NDF}$ :827.7/13

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

Left In: -30.162+/-0.766  $\chi^2/\text{NDF}$ :509.9/12

Left: -28.610+/-0.544  $\chi^2/\text{NDF}$ : 1345.9/26

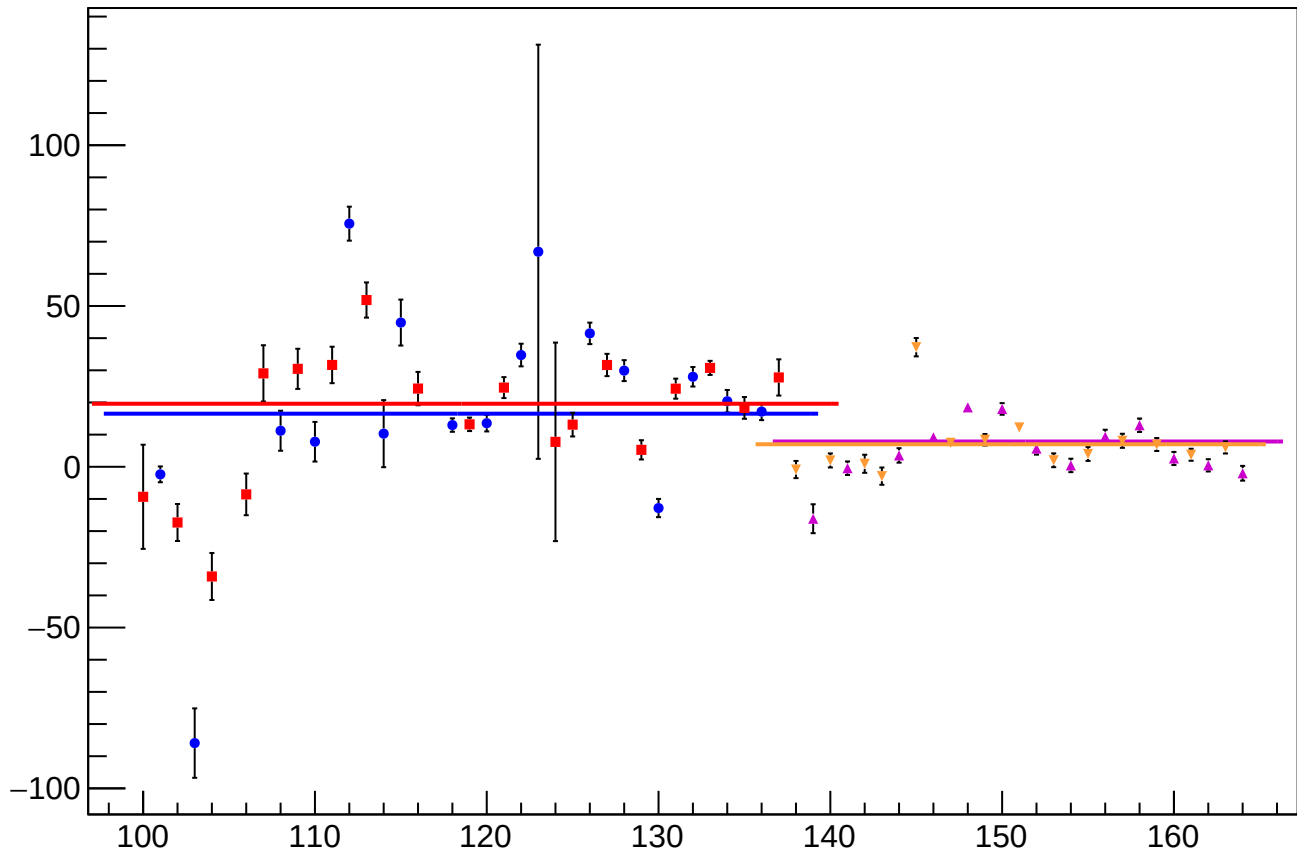
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -30.162+/-0.766  $\chi^2/\text{NDF}$ :509.9/12

Out: -27.033+/-0.773  $\chi^2/\text{NDF}$ :827.7/13

All: -28.610+/-0.544  $\chi^2/\text{NDF}$ : 1345.9/26

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: 7.003 $\pm$ 0.527  $\chi^2$ /NDF:169.0/13

Right Out: 19.604 $\pm$ 0.898  $\chi^2$ /NDF: 242.0/18

Left In: 7.862 $\pm$ 0.537  $\chi^2$ /NDF:206.6/12

Left: 7.425 $\pm$ 0.376  $\chi^2$ /NDF: 376.9/26

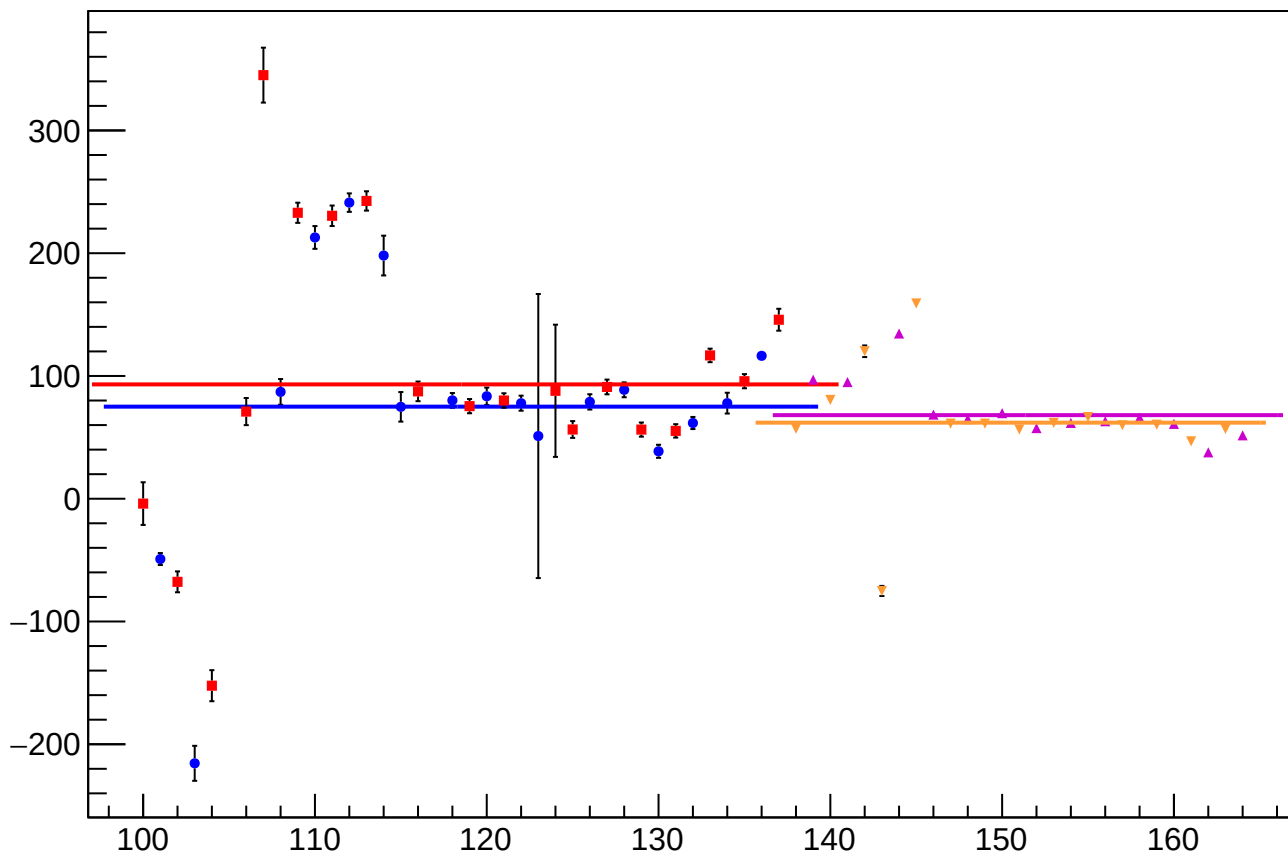
Right: 17.968 $\pm$ 0.616  $\chi^2$ /NDF: 767.9/35

In: 10.337 $\pm$ 0.453  $\chi^2$ /NDF:800.6/29

Out: 10.231 $\pm$ 0.455  $\chi^2$ /NDF:557.3/32

All: 10.284 $\pm$ 0.321  $\chi^2$ /NDF: 1357.9/62

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: 61.975+/-0.753  $\chi^2/\text{NDF}$ : 2156.2/13

Right Out: 93.140+/-1.711  $\chi^2/\text{NDF}$ : 2002.3/18

Left In: 68.093+/-0.743  $\chi^2/\text{NDF}$ : 826.9/12

Left: 65.077+/-0.529  $\chi^2/\text{NDF}$ : 3016.6/26

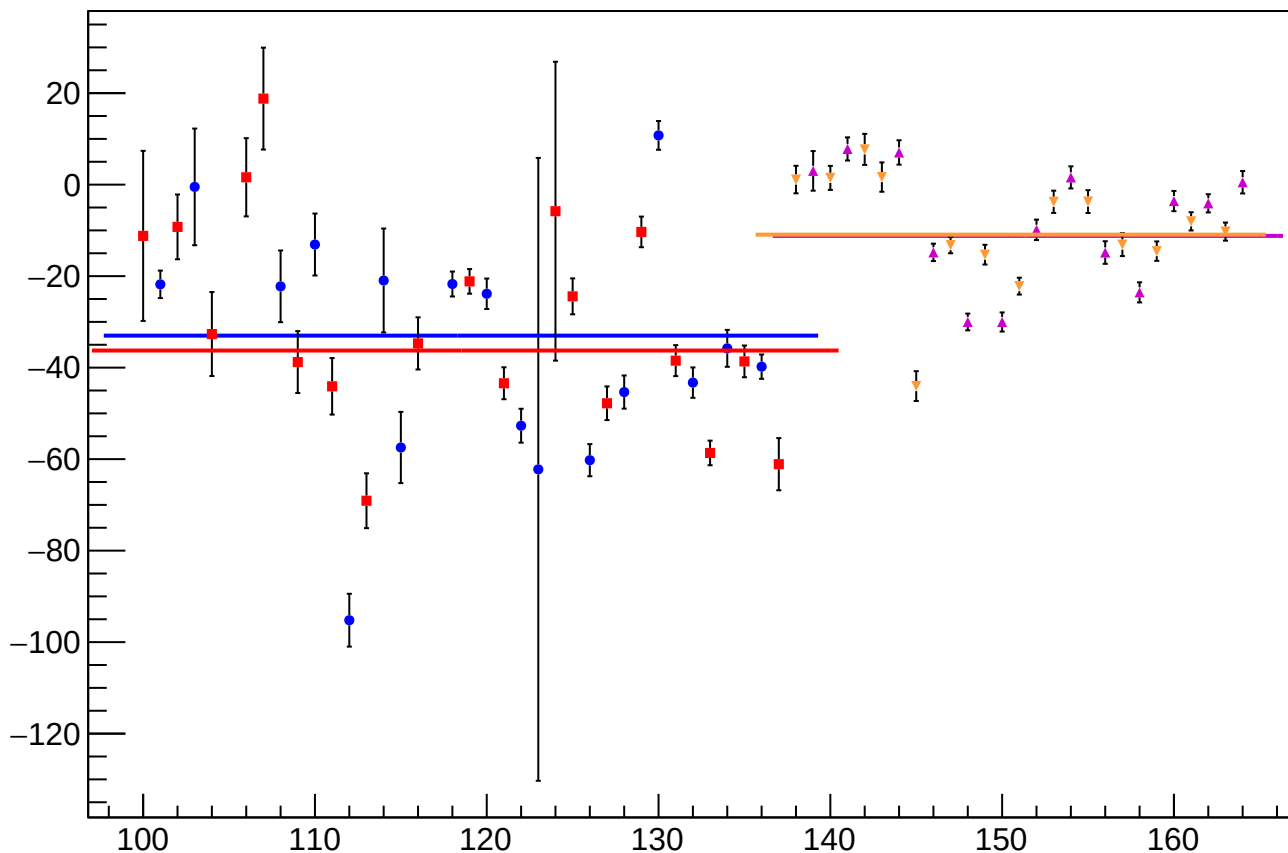
Right: 83.668+/-1.183  $\chi^2/\text{NDF}$ : 4060.3/35

In: 69.275+/-0.676  $\chi^2/\text{NDF}$ : 2841.1/29

Out: 67.035+/-0.689  $\chi^2/\text{NDF}$ : 4436.4/32

All: 68.176+/-0.483  $\chi^2/\text{NDF}$ : 7282.9/62

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:  $-10.928 \pm 0.623$   $\chi^2/\text{NDF}$ : 252.9/13

Right Out:  $-36.260 \pm 1.025$   $\chi^2/\text{NDF}$ : 297.1/18

Left In:  $-11.206 \pm 0.630$   $\chi^2/\text{NDF}$ : 414.3/12

Left:  $-11.066 \pm 0.443$   $\chi^2/\text{NDF}$ : 667.3/26

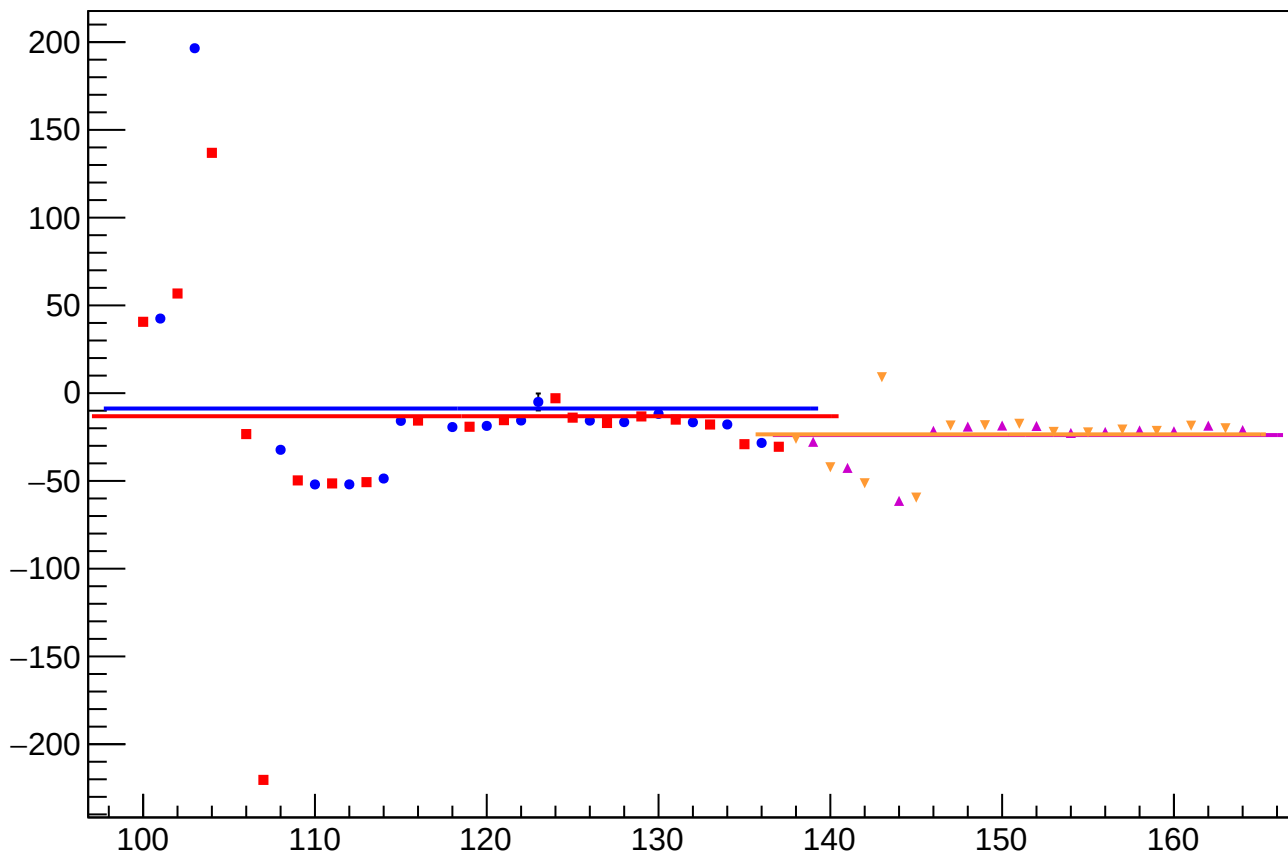
Right:  $-34.545 \pm 0.705$   $\chi^2/\text{NDF}$ : 795.4/35

In:  $-17.651 \pm 0.528$   $\chi^2/\text{NDF}$ : 1261.8/29

Out:  $-17.760 \pm 0.532$   $\chi^2/\text{NDF}$ : 995.8/32

All:  $-17.705 \pm 0.375$   $\chi^2/\text{NDF}$ : 2257.6/62

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:  $-23.470 \pm 0.029$   $\chi^2/\text{NDF}: 168216.3/13$

Right Out:  $-13.143 \pm 0.062$   $\chi^2/\text{NDF}: 558628.0/18$

Left In:  $-23.877 \pm 0.029$   $\chi^2/\text{NDF}: 101888.4/12$

Left:  $-23.676 \pm 0.021$   $\chi^2/\text{NDF}: 270201.7/26$

Right:  $-10.840 \pm 0.043$   $\chi^2/\text{NDF}: 1137294.9/35$

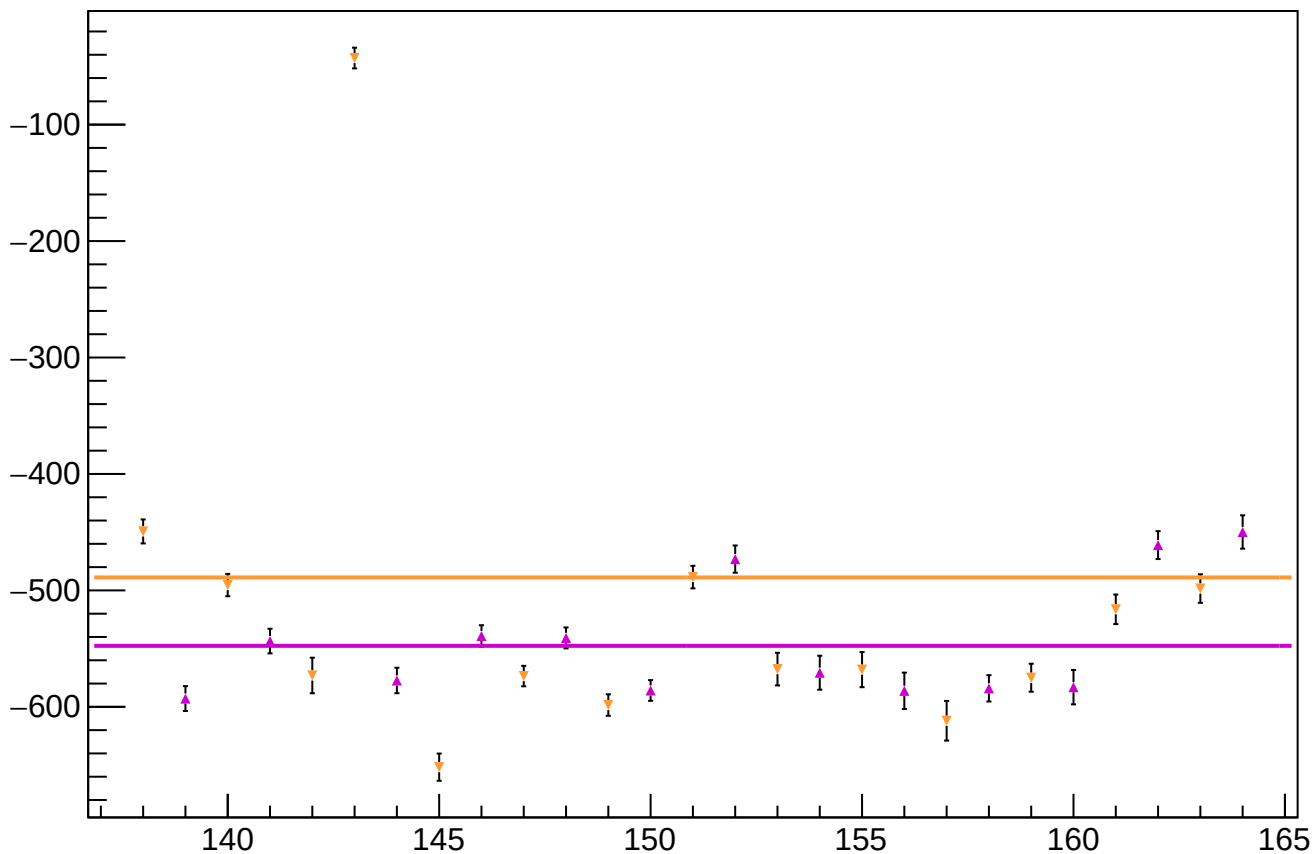
In:  $-20.907 \pm 0.026$   $\chi^2/\text{NDF}: 731073.6/29$

Out:  $-21.556 \pm 0.027$   $\chi^2/\text{NDF}: 749644.6/32$

All:  $-21.225 \pm 0.019$   $\chi^2/\text{NDF}: 1481022.5/62$



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:  $-488.877 \pm 2.980$   $\chi^2/\text{NDF}$ : 3153.8/13

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

Left In:  $-547.598 \pm 3.113$   $\chi^2/\text{NDF}$ : 209.7/12

Left:  $-516.957 \pm 2.153$   $\chi^2/\text{NDF}$ : 3549.2/26

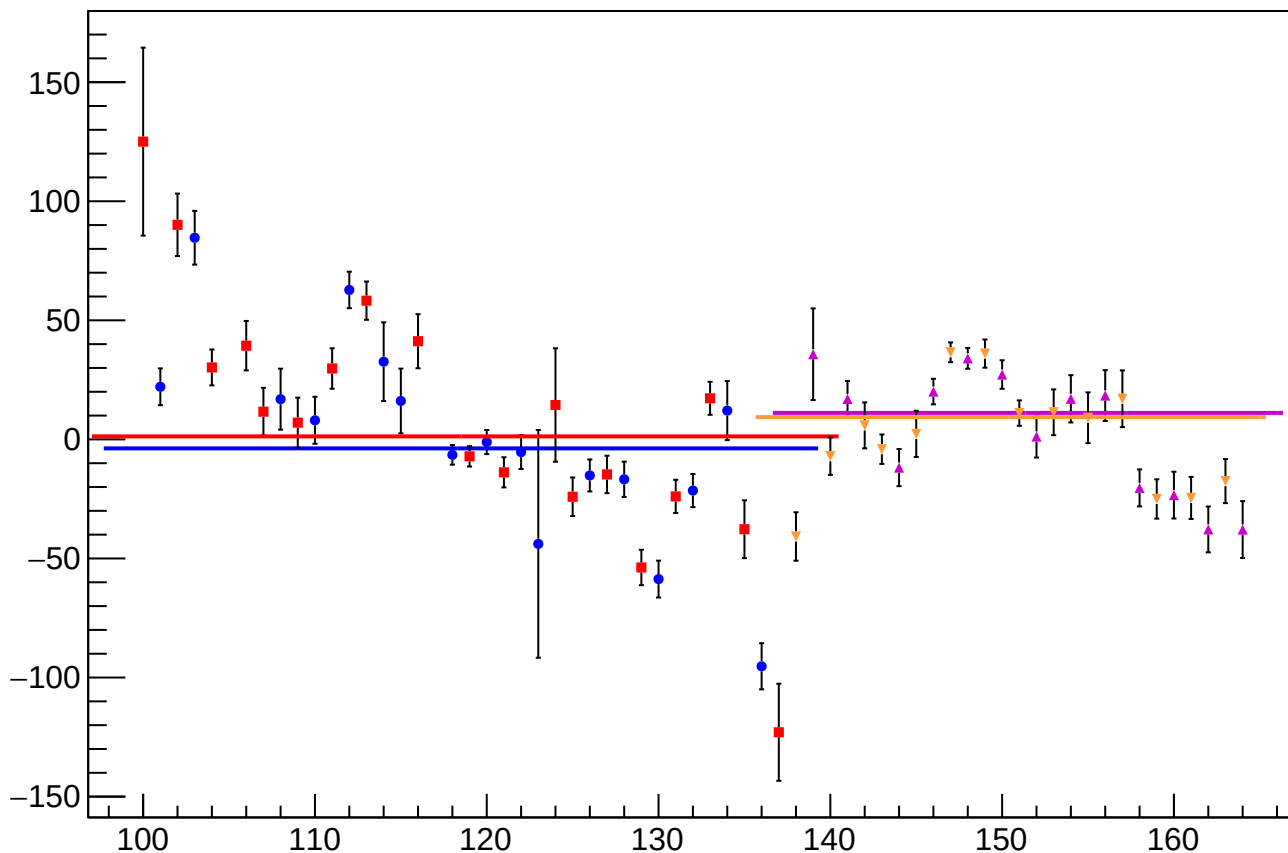
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-547.598 \pm 3.113$   $\chi^2/\text{NDF}$ : 209.7/12

Out:  $-488.877 \pm 2.980$   $\chi^2/\text{NDF}$ : 3153.8/13

All:  $-516.957 \pm 2.153$   $\chi^2/\text{NDF}$ : 3549.2/26

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:  $9.352 \pm 1.959$   $\chi^2/\text{NDF}$ : 138.3/13

Right Out:  $1.265 \pm 1.920$   $\chi^2/\text{NDF}$ : 303.7/18

Left In:  $11.133 \pm 2.091$   $\chi^2/\text{NDF}$ : 122.2/12

Left:  $10.184 \pm 1.429$   $\chi^2/\text{NDF}$ : 260.9/26

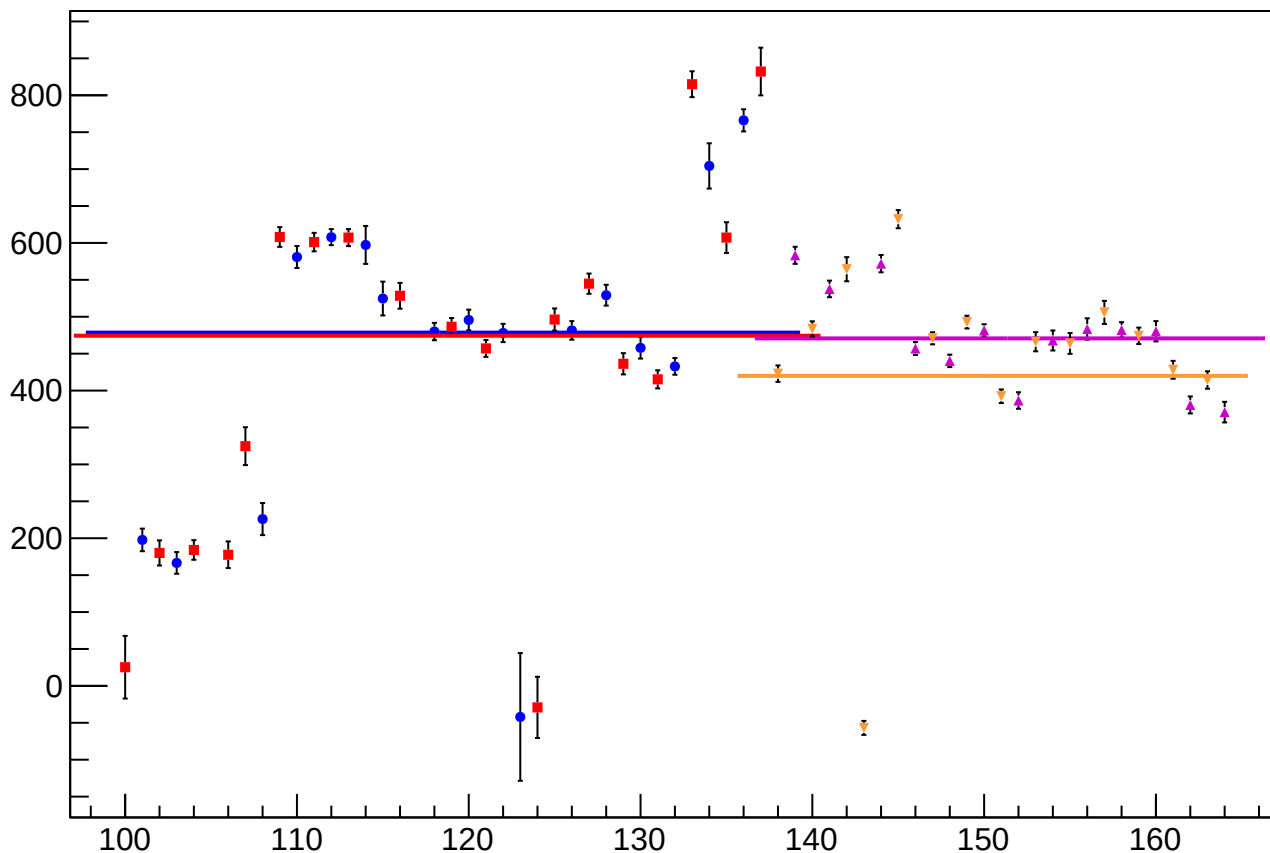
Right:  $-1.296 \pm 1.346$   $\chi^2/\text{NDF}$ : 621.6/35

In:  $2.924 \pm 1.401$   $\chi^2/\text{NDF}$ : 464.6/29

Out:  $5.229 \pm 1.371$   $\chi^2/\text{NDF}$ : 450.7/32

All:  $4.102 \pm 0.980$   $\chi^2/\text{NDF}$ : 916.6/62

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $478.526 \pm 3.630$   $\chi^2/\text{NDF}: 1629.0/16$

Left Out:  $419.942 \pm 2.934$   $\chi^2/\text{NDF}: 3129.8/13$

Right Out:  $474.328 \pm 3.533$   $\chi^2/\text{NDF}: 2287.1/18$

Left In:  $470.693 \pm 3.023$   $\chi^2/\text{NDF}: 393.4/12$

Left:  $444.560 \pm 2.106$   $\chi^2/\text{NDF}: 3668.3/26$

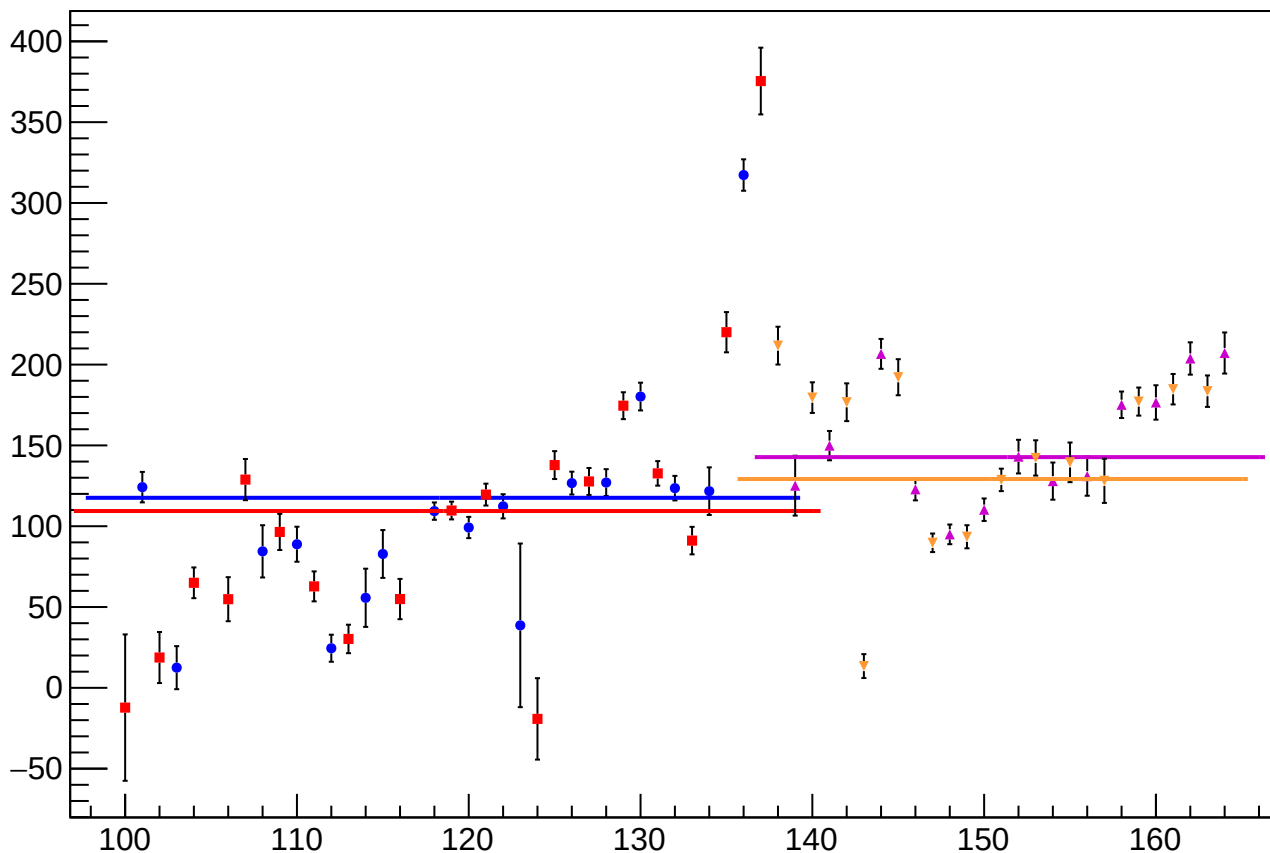
Right:  $476.370 \pm 2.532$   $\chi^2/\text{NDF}: 3916.8/35$

In:  $473.901 \pm 2.323$   $\chi^2/\text{NDF}: 2025.1/29$

Out:  $442.145 \pm 2.257$   $\chi^2/\text{NDF}: 5557.1/32$

All:  $457.566 \pm 1.619$   $\chi^2/\text{NDF}: 7678.4/62$

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:  $129.200 \pm 2.369$   $\chi^2/\text{NDF}: 542.1/13$

Right Out:  $109.400 \pm 2.210$   $\chi^2/\text{NDF}: 571.2/18$

Left In:  $142.757 \pm 2.507$   $\chi^2/\text{NDF}: 232.3/12$

Left:  $135.595 \pm 1.722$   $\chi^2/\text{NDF}: 789.9/26$

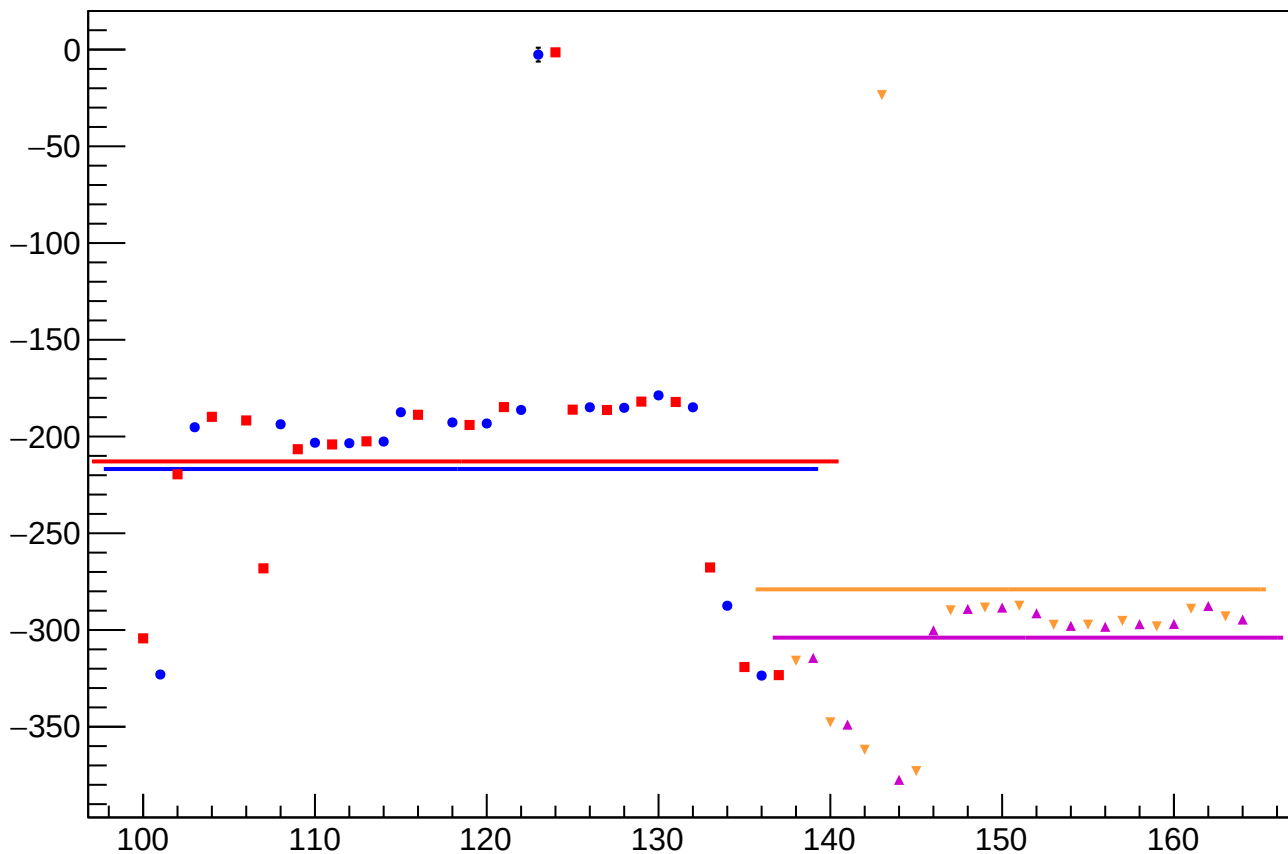
Right:  $113.524 \pm 1.557$   $\chi^2/\text{NDF}: 1285.0/35$

In:  $128.495 \pm 1.651$   $\chi^2/\text{NDF}: 996.4/29$

Out:  $118.612 \pm 1.616$   $\chi^2/\text{NDF}: 1150.7/32$

All:  $123.449 \pm 1.155$   $\chi^2/\text{NDF}: 2165.3/62$

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:  $-278.989 \pm 0.118$   $\chi^2/\text{NDF}$ : 544963.8/13

Right Out:  $-212.869 \pm 0.130$   $\chi^2/\text{NDF}$ : 116393.6/18

Left In:  $-303.958 \pm 0.121$   $\chi^2/\text{NDF}$ : 37843.5/12

Left:  $-291.211 \pm 0.084$   $\chi^2/\text{NDF}$ : 604721.1/26

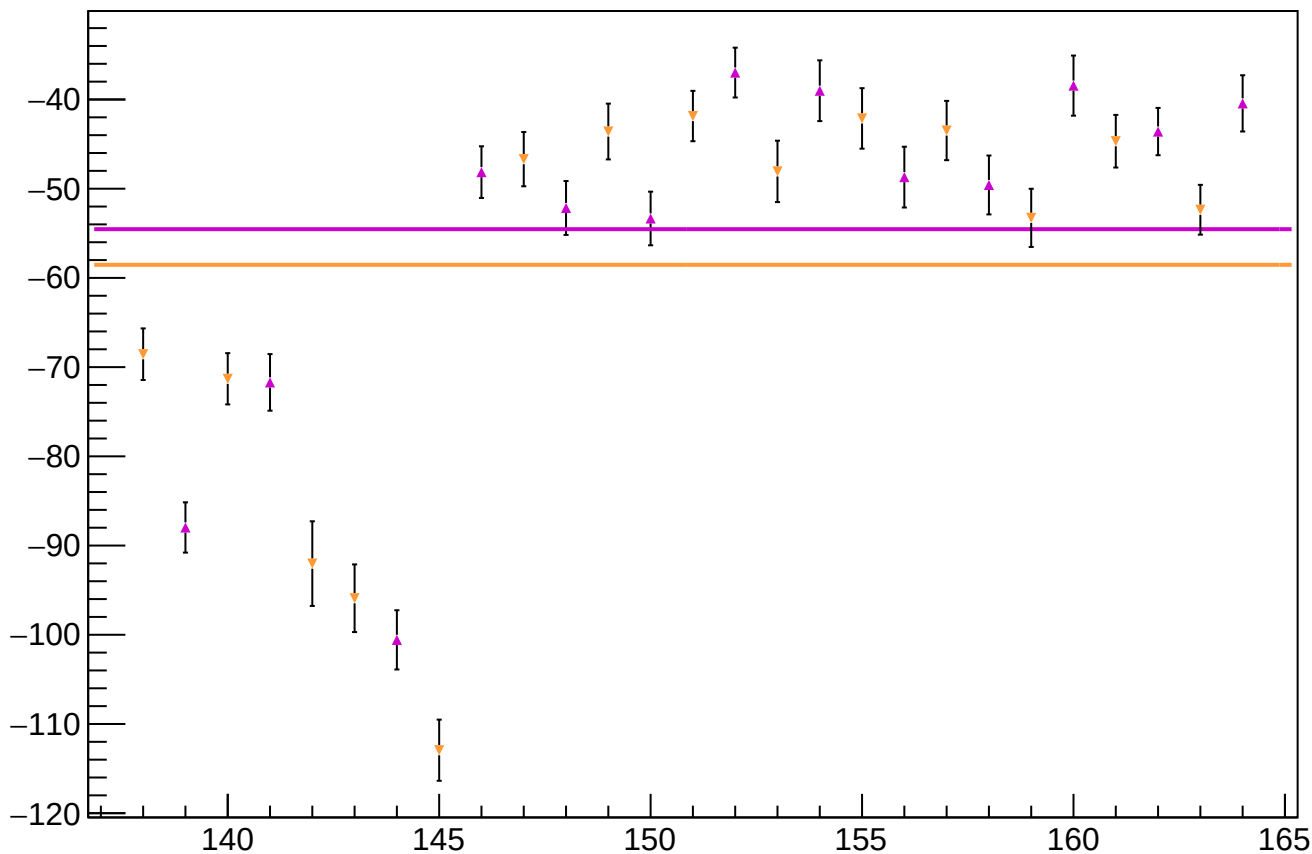
Right:  $-214.751 \pm 0.094$   $\chi^2/\text{NDF}$ : 263806.1/35

In:  $-265.509 \pm 0.090$   $\chi^2/\text{NDF}$ : 415558.3/29

Out:  $-249.157 \pm 0.087$   $\chi^2/\text{NDF}$ : 802998.7/32

All:  $-257.087 \pm 0.063$   $\chi^2/\text{NDF}$ : 1235523.5/62

reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



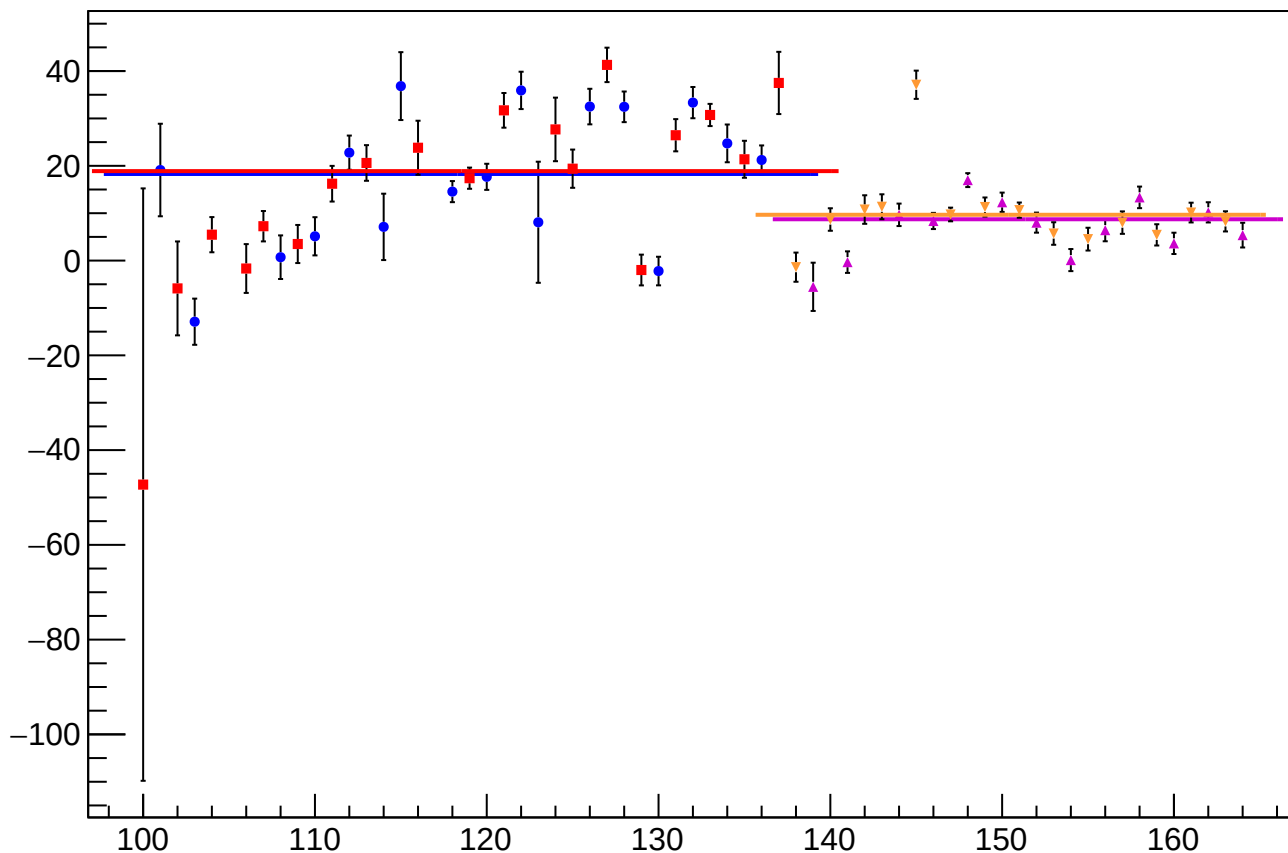
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.532+/-0.853  $\chi^2/\text{NDF}$ : 586.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -54.537+/-0.852  $\chi^2/\text{NDF}$ : 493.4/12

Left: -56.532+/-0.603  $\chi^2/\text{NDF}$ : 1090.6/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.537+/-0.852  $\chi^2/\text{NDF}$ : 493.4/12  
 Out: -58.532+/-0.853  $\chi^2/\text{NDF}$ : 586.2/13

All: -56.532+/-0.603  $\chi^2/\text{NDF}$ : 1090.6/26

# 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:  $9.668 \pm 0.583$   $\chi^2/\text{NDF}$ : 111.3/13

Right Out:  $18.882 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.4/18

Left In:  $8.719 \pm 0.597$   $\chi^2/\text{NDF}$ : 84.7/12

Left:  $9.205 \pm 0.417$   $\chi^2/\text{NDF}$ : 197.2/26

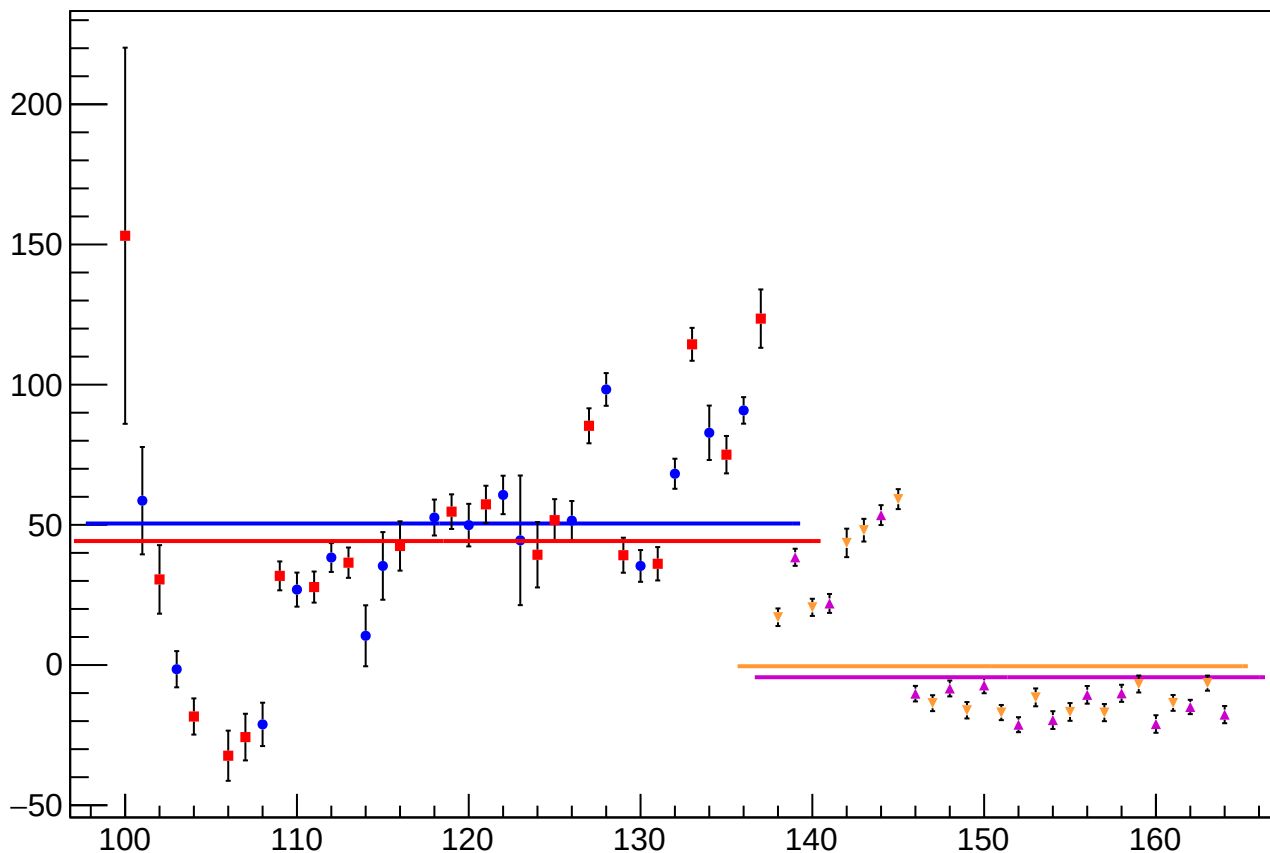
Right:  $18.595 \pm 0.625$   $\chi^2/\text{NDF}$ : 403.2/35

In:  $11.617 \pm 0.499$   $\chi^2/\text{NDF}$ : 366.9/29

Out:  $12.548 \pm 0.483$   $\chi^2/\text{NDF}$ : 387.8/32

All:  $12.097 \pm 0.347$   $\chi^2/\text{NDF}$ : 756.5/62

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:  $-0.429 \pm 0.833$   $\chi^2/\text{NDF}: 763.5/13$

Right Out:  $44.222 \pm 1.602$   $\chi^2/\text{NDF}: 534.4/18$

Left In:  $-4.354 \pm 0.826$   $\chi^2/\text{NDF}: 665.7/12$

Left:  $-2.407 \pm 0.586$   $\chi^2/\text{NDF}: 1440.4/26$

Right:  $47.226 \pm 1.156$   $\chi^2/\text{NDF}: 899.6/35$

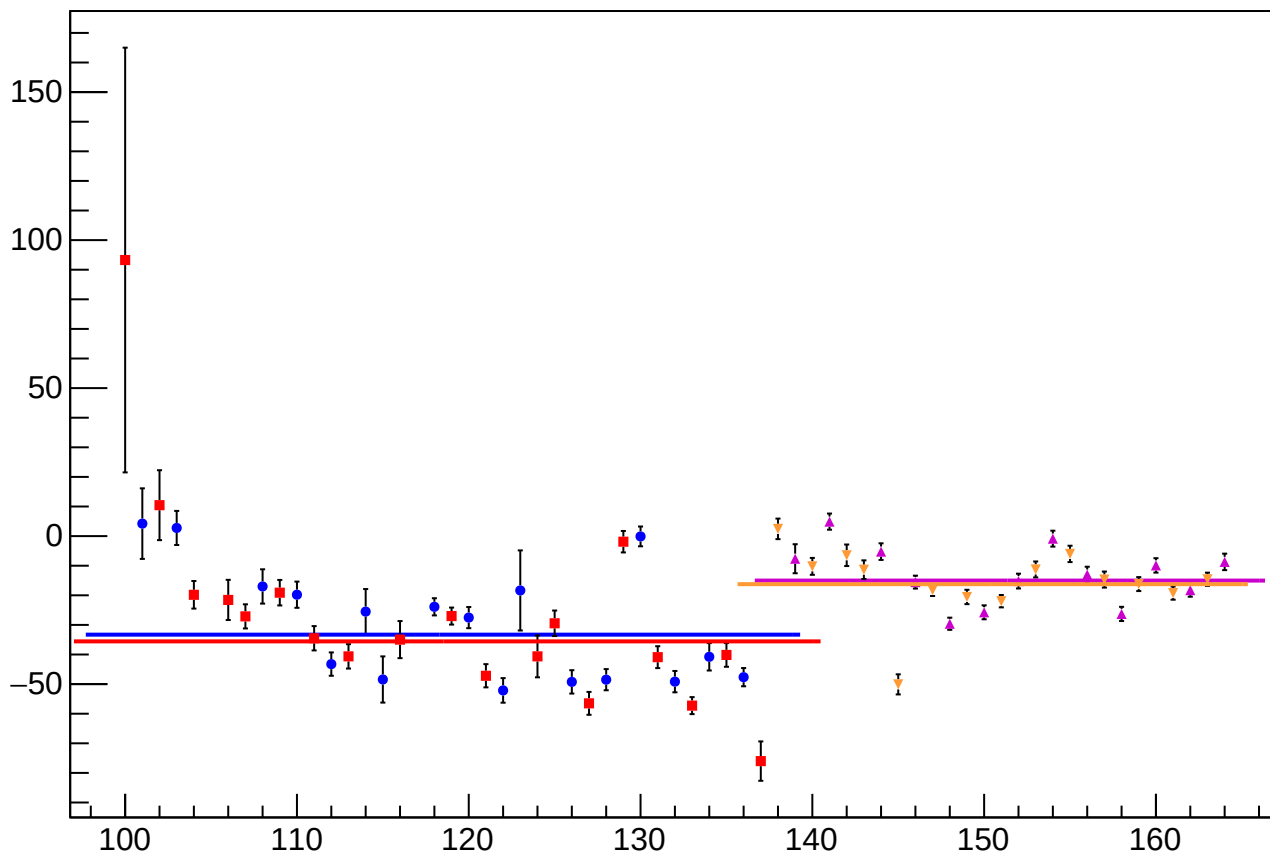
In:  $6.450 \pm 0.740$   $\chi^2/\text{NDF}: 1891.5/29$

Out:  $9.062 \pm 0.739$   $\chi^2/\text{NDF}: 1909.3/32$

All:  $7.759 \pm 0.523$   $\chi^2/\text{NDF}: 3807.0/62$



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:  $-16.243 \pm 0.689$   $\chi^2/\text{NDF}$ : 174.0/13

Right Out:  $-35.566 \pm 0.992$   $\chi^2/\text{NDF}$ : 287.6/18

Left In:  $-15.022 \pm 0.700$   $\chi^2/\text{NDF}$ : 200.8/12

Left:  $-15.642 \pm 0.491$   $\chi^2/\text{NDF}$ : 376.4/26

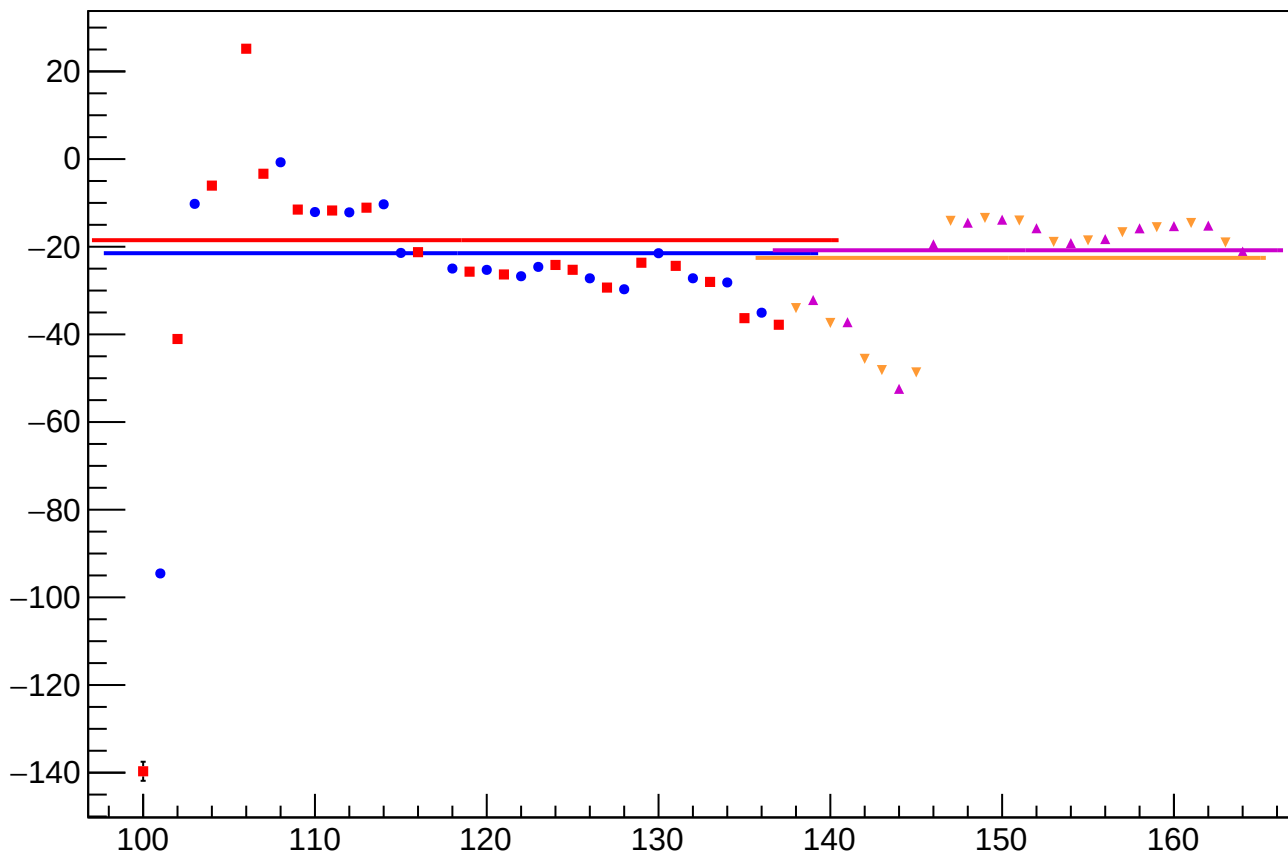
Right:  $-34.474 \pm 0.716$   $\chi^2/\text{NDF}$ : 579.3/35

In:  $-20.768 \pm 0.579$   $\chi^2/\text{NDF}$ : 704.4/29

Out:  $-22.524 \pm 0.566$   $\chi^2/\text{NDF}$ : 717.4/32

All:  $-21.666 \pm 0.405$   $\chi^2/\text{NDF}$ : 1426.5/62

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-21.476 \pm 0.059$   $\chi^2/\text{NDF}: 49009.8/16$

Left Out:  $-22.543 \pm 0.033$   $\chi^2/\text{NDF}: 124543.4/13$

Right Out:  $-18.506 \pm 0.057$   $\chi^2/\text{NDF}: 80734.5/18$

Left In:  $-20.806 \pm 0.032$   $\chi^2/\text{NDF}: 83952.5/12$

Left:  $-21.669 \pm 0.023$   $\chi^2/\text{NDF}: 209932.5/26$

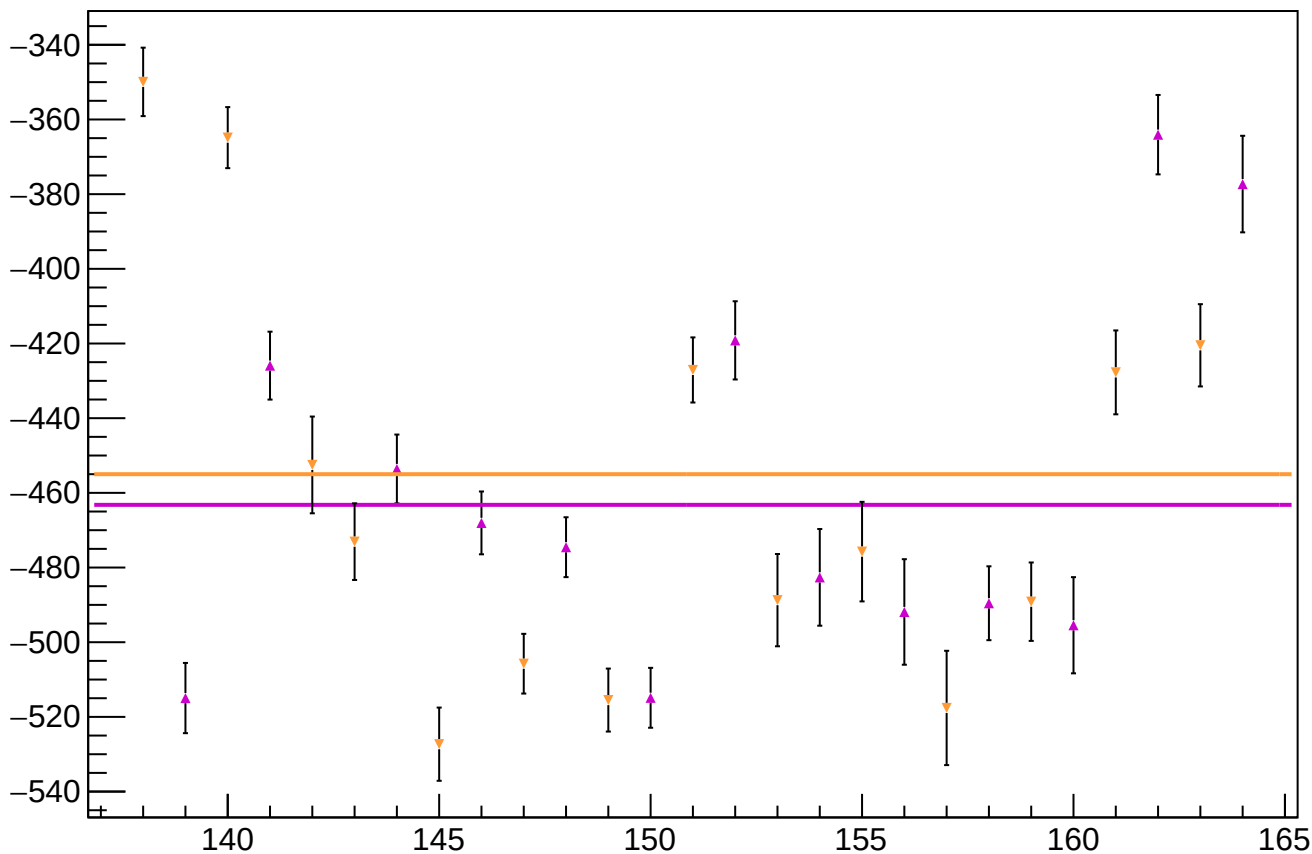
Right:  $-19.957 \pm 0.041$   $\chi^2/\text{NDF}: 131054.3/35$

In:  $-20.962 \pm 0.028$   $\chi^2/\text{NDF}: 133062.3/29$

Out:  $-21.561 \pm 0.028$   $\chi^2/\text{NDF}: 209027.4/32$

All:  $-21.262 \pm 0.020$   $\chi^2/\text{NDF}: 342314.0/62$

# 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: -455.002+/-2.699  $\chi^2/\text{NDF}$ :465.4/13

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

Left In: -463.210+/-2.757  $\chi^2/\text{NDF}$ :260.4/12

Left: -459.019+/-1.929  $\chi^2/\text{NDF}$ : 730.3/26

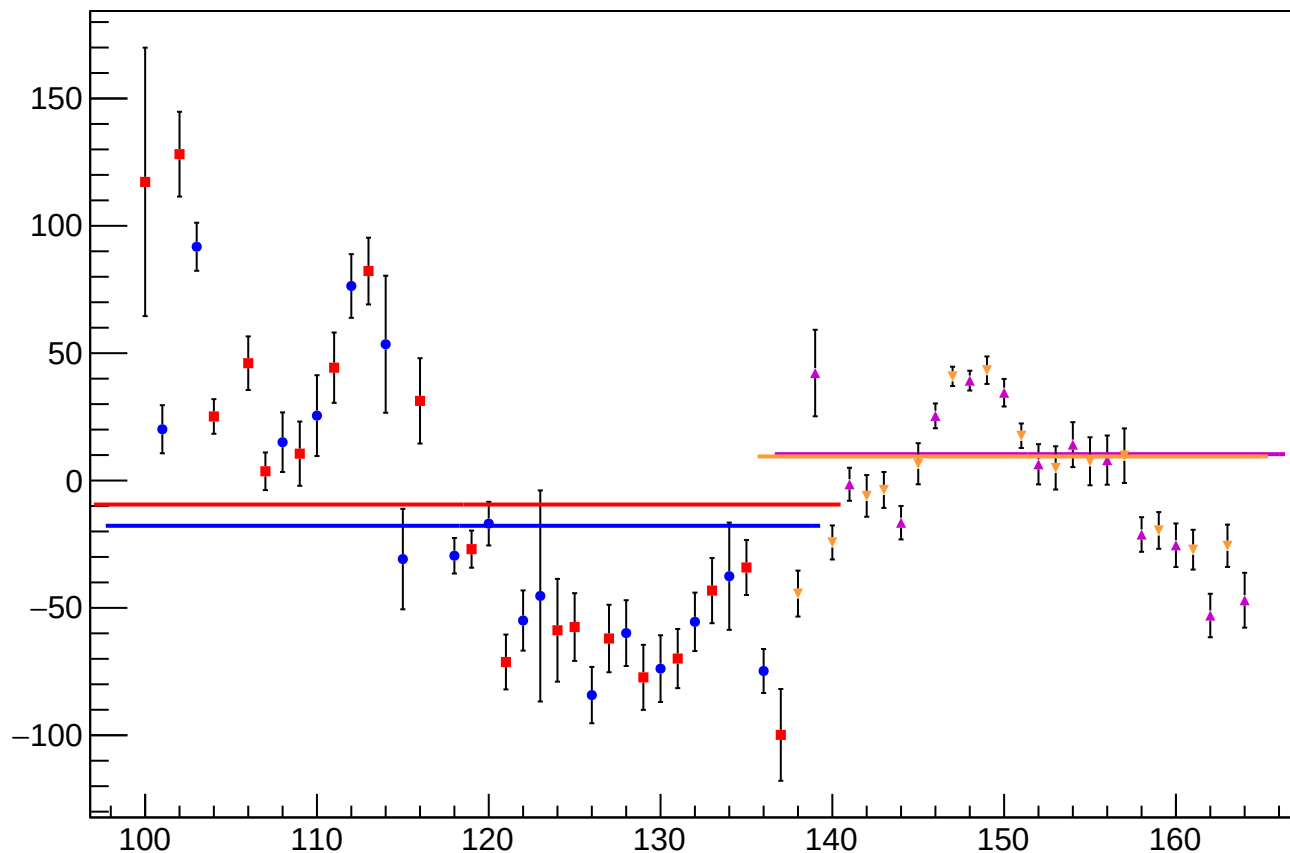
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -463.210+/-2.757  $\chi^2/\text{NDF}$ :260.4/12

Out: -455.002+/-2.699  $\chi^2/\text{NDF}$ :465.4/13

All: -459.019+/-1.929  $\chi^2/\text{NDF}$ : 730.3/26

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:  $9.458 \pm 1.778$   $\chi^2/\text{NDF}$ : 235.8/13

Right Out:  $-9.417 \pm 2.613$   $\chi^2/\text{NDF}$ : 369.6/18

Left In:  $10.357 \pm 1.856$   $\chi^2/\text{NDF}$ : 231.2/12

Left:  $9.888 \pm 1.284$   $\chi^2/\text{NDF}$ : 467.1/26

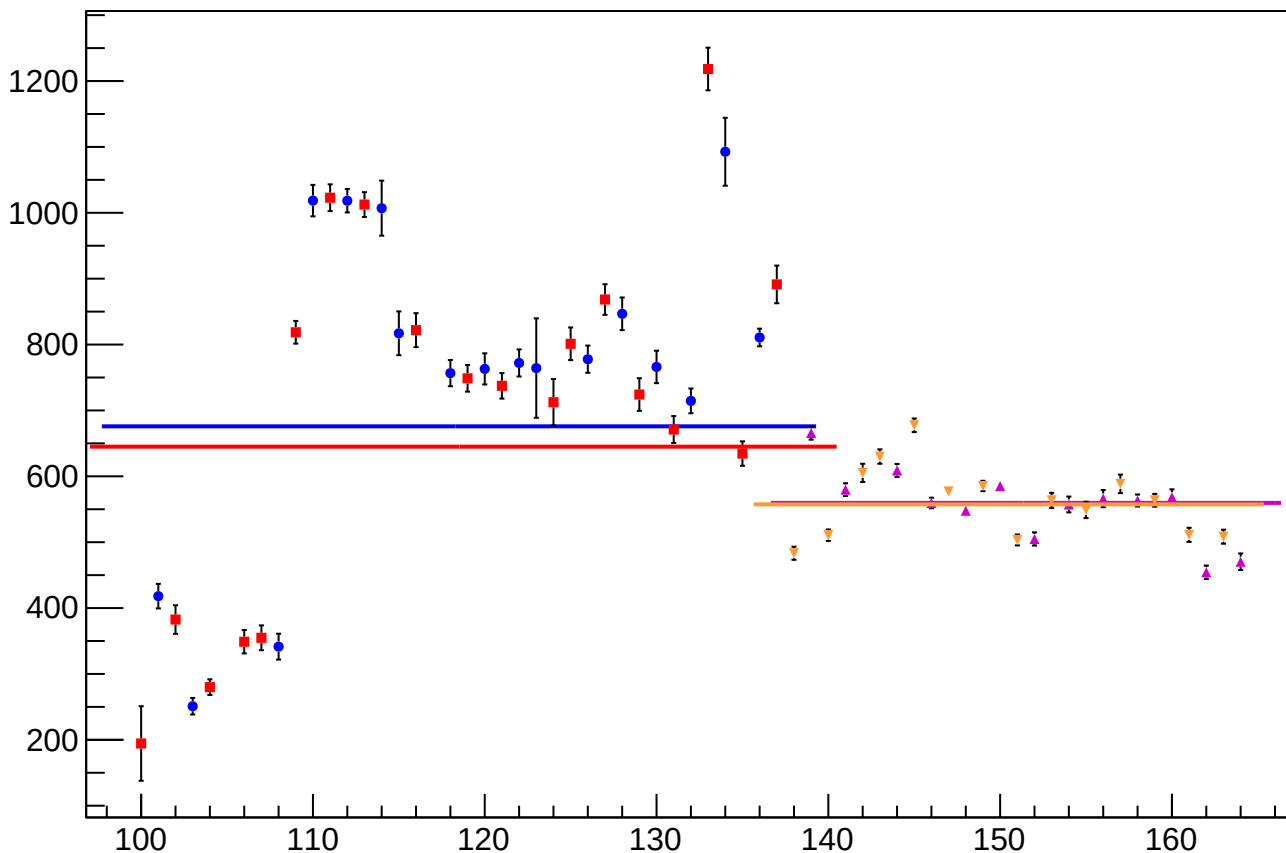
Right:  $-13.331 \pm 1.905$   $\chi^2/\text{NDF}$ : 738.2/35

In:  $1.693 \pm 1.544$   $\chi^2/\text{NDF}$ : 665.8/29

Out:  $3.484 \pm 1.470$   $\chi^2/\text{NDF}$ : 641.1/32

All:  $2.632 \pm 1.065$   $\chi^2/\text{NDF}$ : 1307.5/62

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:  $557.425 \pm 2.654$   $\chi^2/\text{NDF}: 382.8/13$

Right Out:  $645.014 \pm 4.761$   $\chi^2/\text{NDF}: 3123.3/18$

Left In:  $559.654 \pm 2.682$   $\chi^2/\text{NDF}: 339.0/12$

Left:  $558.528 \pm 1.886$   $\chi^2/\text{NDF}: 722.2/26$

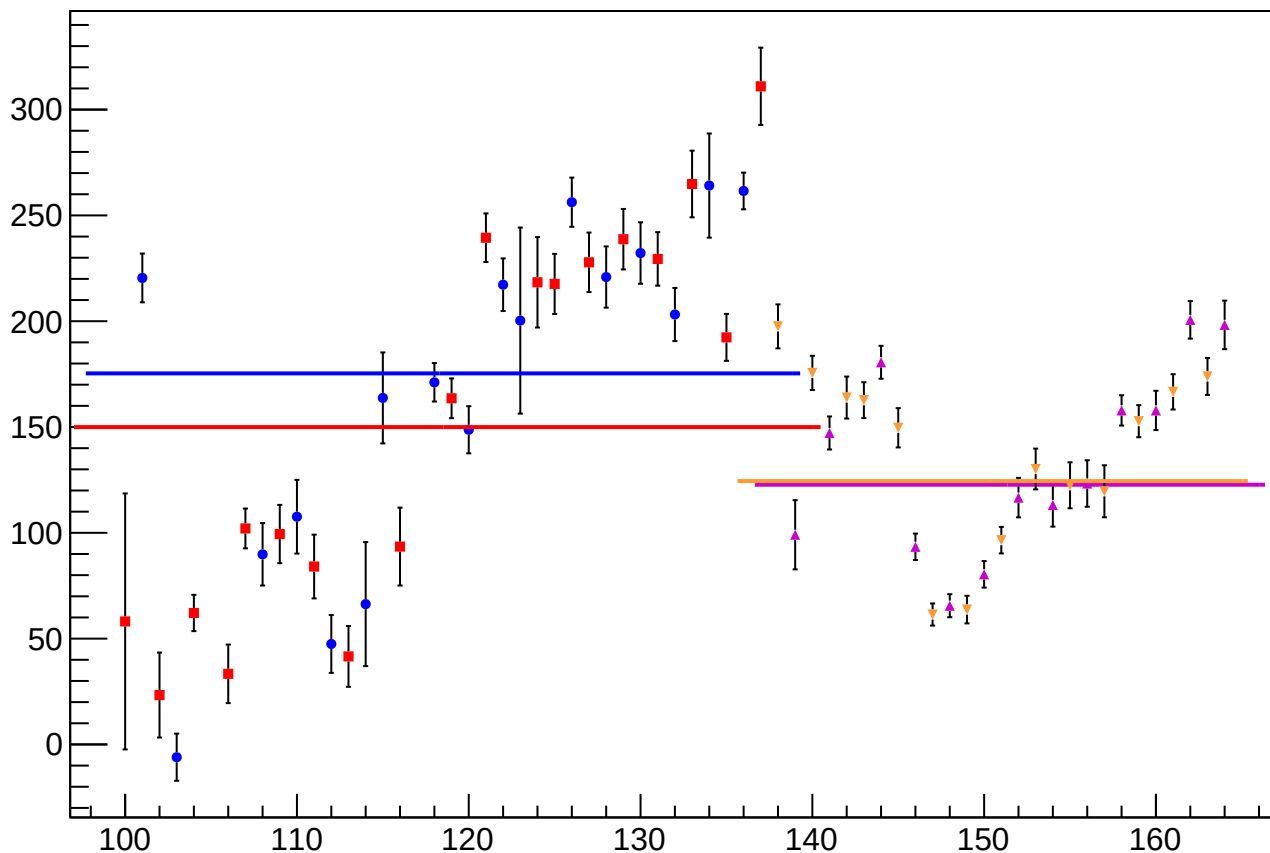
Right:  $659.573 \pm 3.460$   $\chi^2/\text{NDF}: 5729.5/35$

In:  $585.319 \pm 2.367$   $\chi^2/\text{NDF}: 3340.2/29$

Out:  $578.190 \pm 2.318$   $\chi^2/\text{NDF}: 3764.3/32$

All:  $581.680 \pm 1.656$   $\chi^2/\text{NDF}: 7109.1/62$

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 175.341 $\pm$ 3.203  $\chi^2$ /NDF: 638.5/16

Left Out: 124.446 $\pm$ 2.148  $\chi^2$ /NDF: 457.3/13

Right Out: 149.966 $\pm$ 3.045  $\chi^2$ /NDF: 693.2/18

Left In: 122.731 $\pm$ 2.224  $\chi^2$ /NDF: 405.4/12

Left: 123.618 $\pm$ 1.545  $\chi^2$ /NDF: 863.0/26

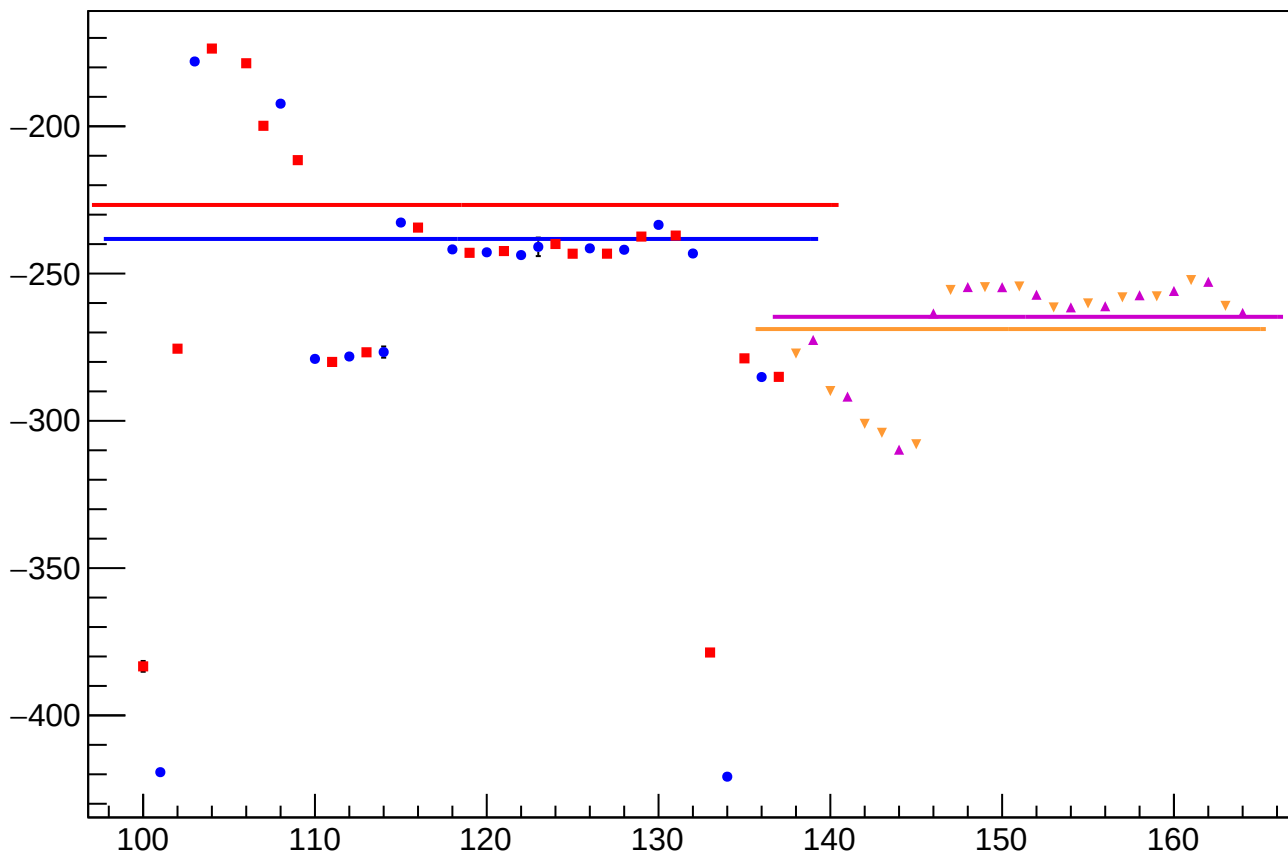
Right: 162.013 $\pm$ 2.207  $\chi^2$ /NDF: 1364.6/35

In: 139.840 $\pm$ 1.827  $\chi^2$ /NDF: 1225.9/29

Out: 132.928 $\pm$ 1.755  $\chi^2$ /NDF: 1197.4/32

All: 136.247 $\pm$ 1.266  $\chi^2$ /NDF: 2430.7/62

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -238.248+/-0.160  $\chi^2$ /NDF: 167125.9/16

Left Out: -268.839+/-0.107  $\chi^2$ /NDF:31534.8/13

Right Out: -226.706+/-0.151  $\chi^2$ /NDF: 102831.3/18

Left In: -264.685+/-0.107  $\chi^2$ /NDF:20461.6/12

Left: -266.765+/-0.075  $\chi^2$ /NDF: 52753.5/26

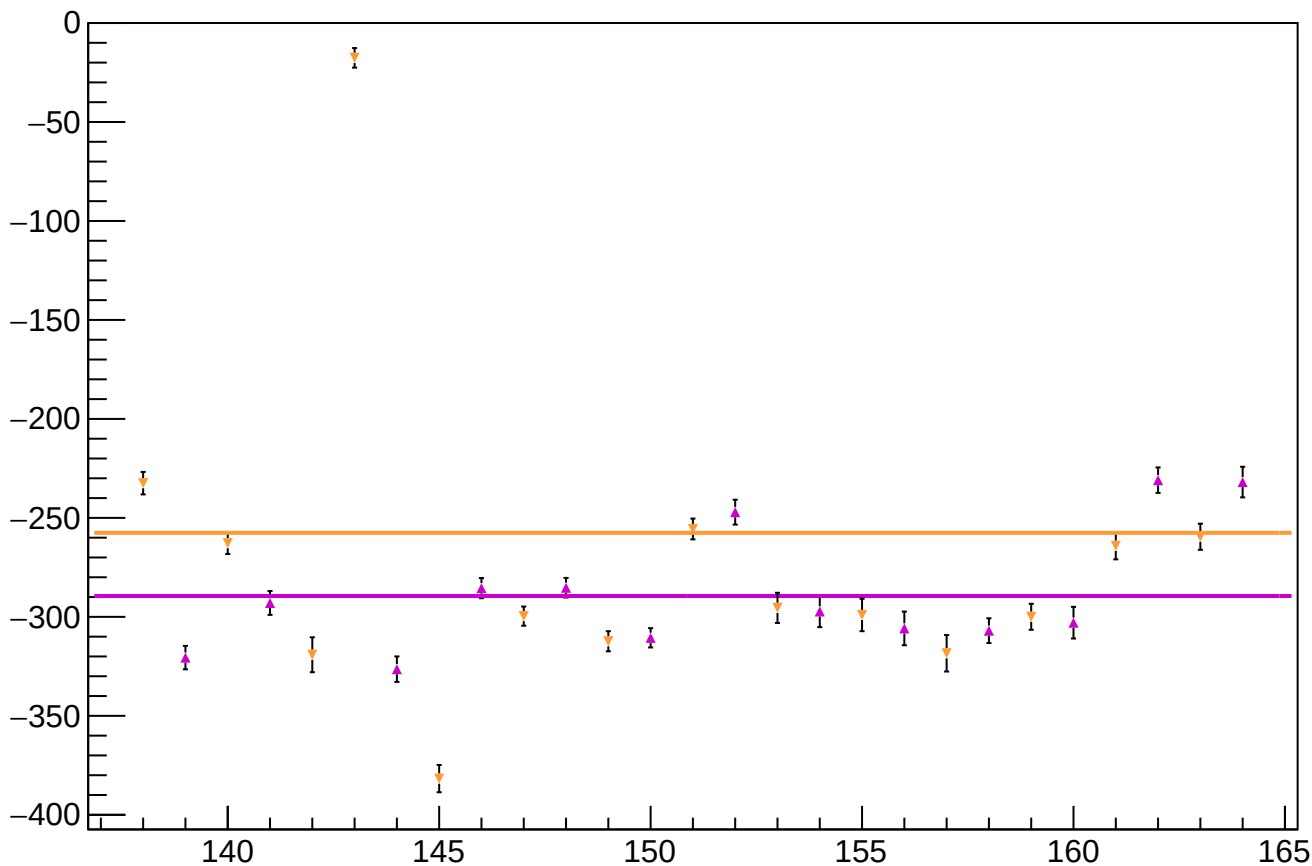
Right: -232.150+/-0.110  $\chi^2$ /NDF: 272709.4/35

In: -256.526+/-0.089  $\chi^2$ /NDF:206481.5/29

Out: -254.826+/-0.087  $\chi^2$ /NDF:186260.1/32

All: -255.660+/-0.062  $\chi^2$ /NDF: 392928.1/62

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: -257.550 $\pm$ 1.649  $\chi^2/\text{NDF}$ :3075.9/13

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

Left In: -289.466 $\pm$ 1.718  $\chi^2/\text{NDF}$ :280.0/12

Left: -272.852 $\pm$ 1.190  $\chi^2/\text{NDF}$ : 3535.6/26

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

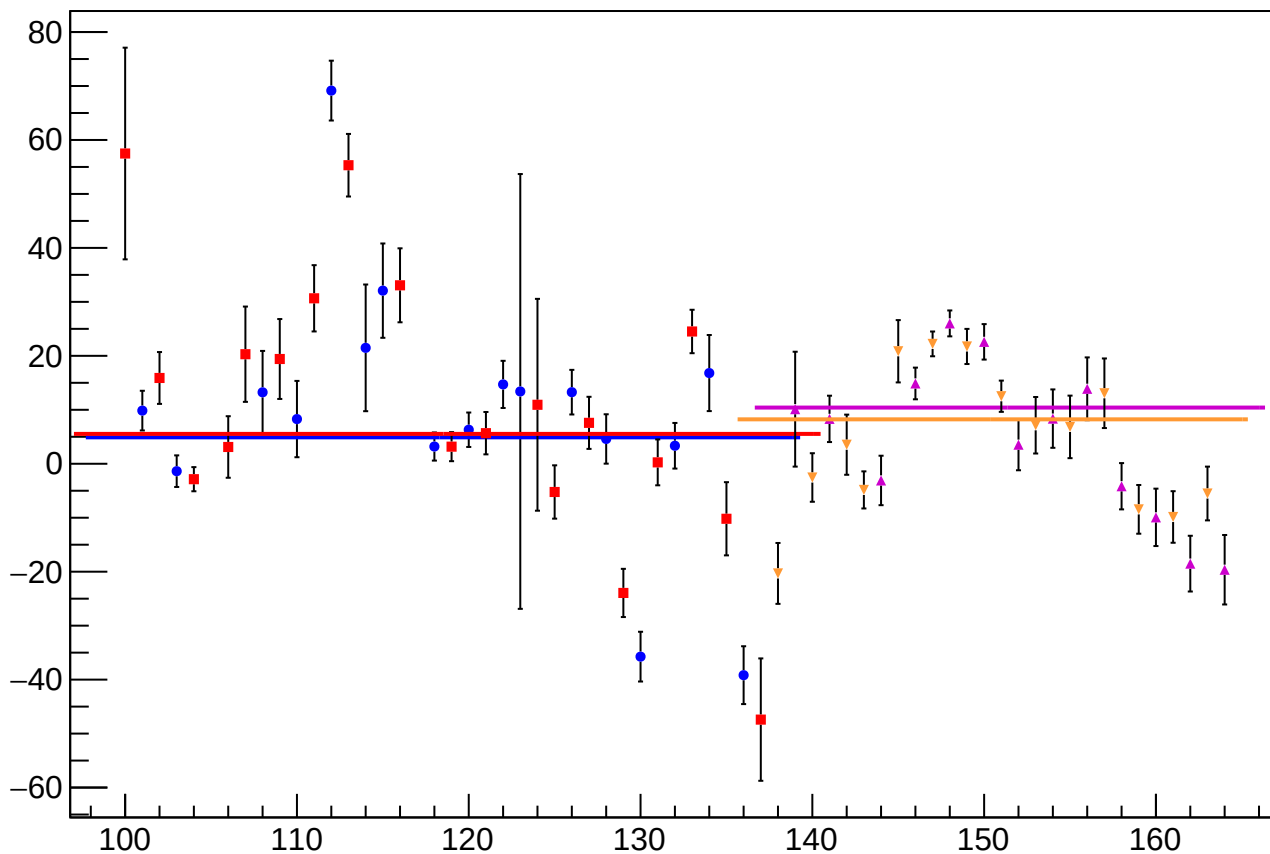
In: -289.466 $\pm$ 1.718  $\chi^2/\text{NDF}$ :280.0/12

Out: -257.550 $\pm$ 1.649  $\chi^2/\text{NDF}$ :3075.9/13

All: -272.852 $\pm$ 1.190  $\chi^2/\text{NDF}$ : 3535.6/26



reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.896 $\pm$ 1.089  $\chi^2$ /NDF: 312.0/16

Left Out: 8.231 $\pm$ 1.082  $\chi^2$ /NDF:144.1/13

Right Out: 5.534 $\pm$ 1.071  $\chi^2$ /NDF: 239.1/18

Left In: 10.412 $\pm$ 1.153  $\chi^2$ /NDF:149.1/12

Left: 9.252 $\pm$ 0.789  $\chi^2$ /NDF: 295.1/26

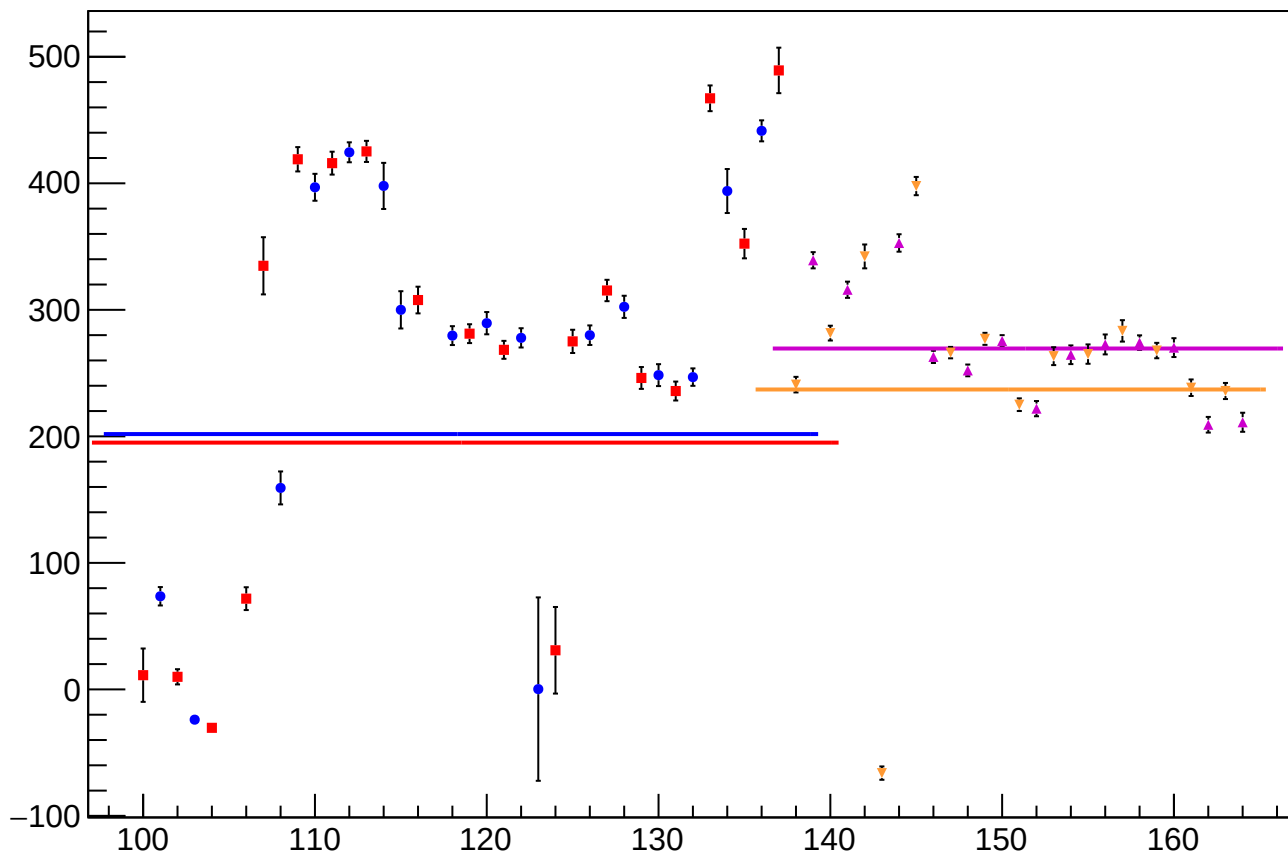
Right: 5.220 $\pm$ 0.764  $\chi^2$ /NDF: 551.3/35

In: 7.497 $\pm$ 0.792  $\chi^2$ /NDF:473.2/29

Out: 6.870 $\pm$ 0.761  $\chi^2$ /NDF:386.4/32

All: 7.171 $\pm$ 0.549  $\chi^2$ /NDF: 859.9/62

reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 201.807 $\pm$ 1.970  $\chi^2/\text{NDF}$ : 6754.2/16

Left Out: 237.048 $\pm$ 1.620  $\chi^2/\text{NDF}$ : 4176.6/13

Right Out: 195.053 $\pm$ 1.924  $\chi^2/\text{NDF}$ : 8257.1/18

Left In: 269.430 $\pm$ 1.665  $\chi^2/\text{NDF}$ : 553.3/12

Left: 252.791 $\pm$ 1.161  $\chi^2/\text{NDF}$ : 4924.1/26

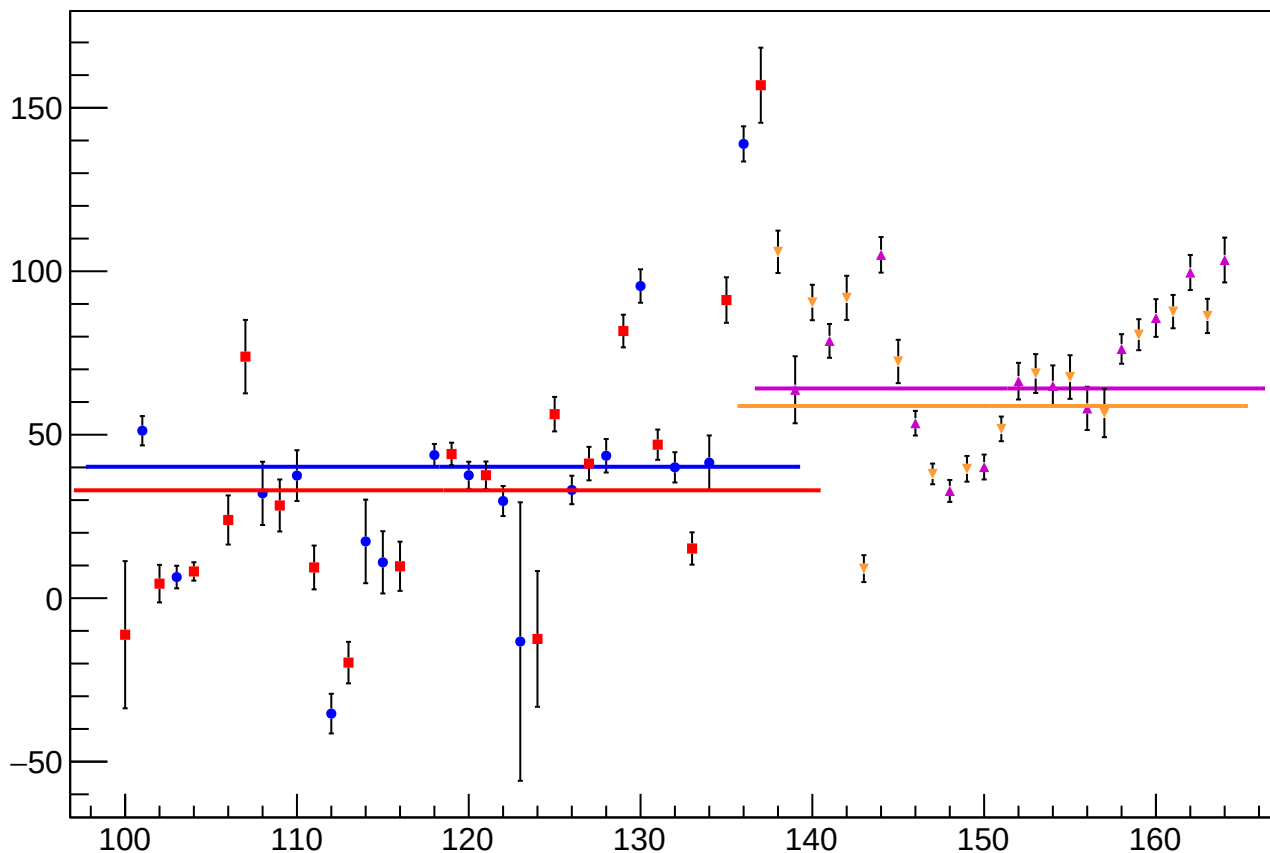
Right: 198.351 $\pm$ 1.377  $\chi^2/\text{NDF}$ : 15017.4/35

In: 241.252 $\pm$ 1.272  $\chi^2/\text{NDF}$ : 7994.5/29

Out: 219.633 $\pm$ 1.239  $\chi^2/\text{NDF}$ : 12712.4/32

All: 230.161 $\pm$ 0.888  $\chi^2/\text{NDF}$ : 20855.1/62

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:  $58.791 \pm 1.307$   $\chi^2/\text{NDF}: 417.7/13$

Right Out:  $32.999 \pm 1.253$   $\chi^2/\text{NDF}: 554.1/18$

Left In:  $64.148 \pm 1.382$   $\chi^2/\text{NDF}: 297.8/12$

Left:  $61.322 \pm 0.950$   $\chi^2/\text{NDF}: 723.4/26$

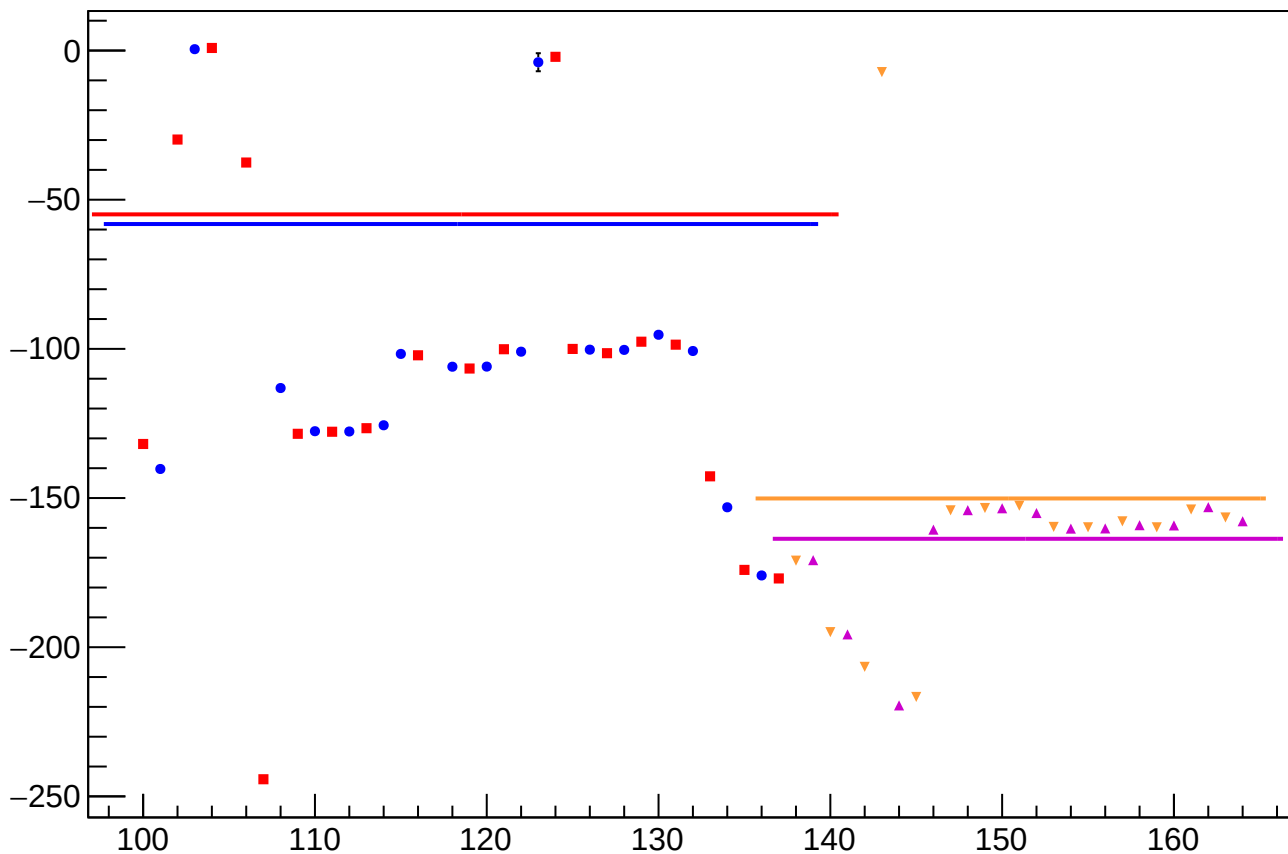
Right:  $36.555 \pm 0.891$   $\chi^2/\text{NDF}: 1305.3/35$

In:  $51.140 \pm 0.934$   $\chi^2/\text{NDF}: 1195.9/29$

Out:  $45.342 \pm 0.904$   $\chi^2/\text{NDF}: 1174.7/32$

All:  $48.148 \pm 0.650$   $\chi^2/\text{NDF}: 2390.5/62$

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-58.155 \pm 0.062$   $\chi^2/\text{NDF}: 1105509.3/16$

Left Out:  $-150.142 \pm 0.065$   $\chi^2/\text{NDF}: 579579.9/13$

Right Out:  $-54.914 \pm 0.060$   $\chi^2/\text{NDF}: 1003885.5/18$

Left In:  $-163.660 \pm 0.066$   $\chi^2/\text{NDF}: 60393.5/12$

Left:  $-156.772 \pm 0.046$   $\chi^2/\text{NDF}: 661146.6/26$

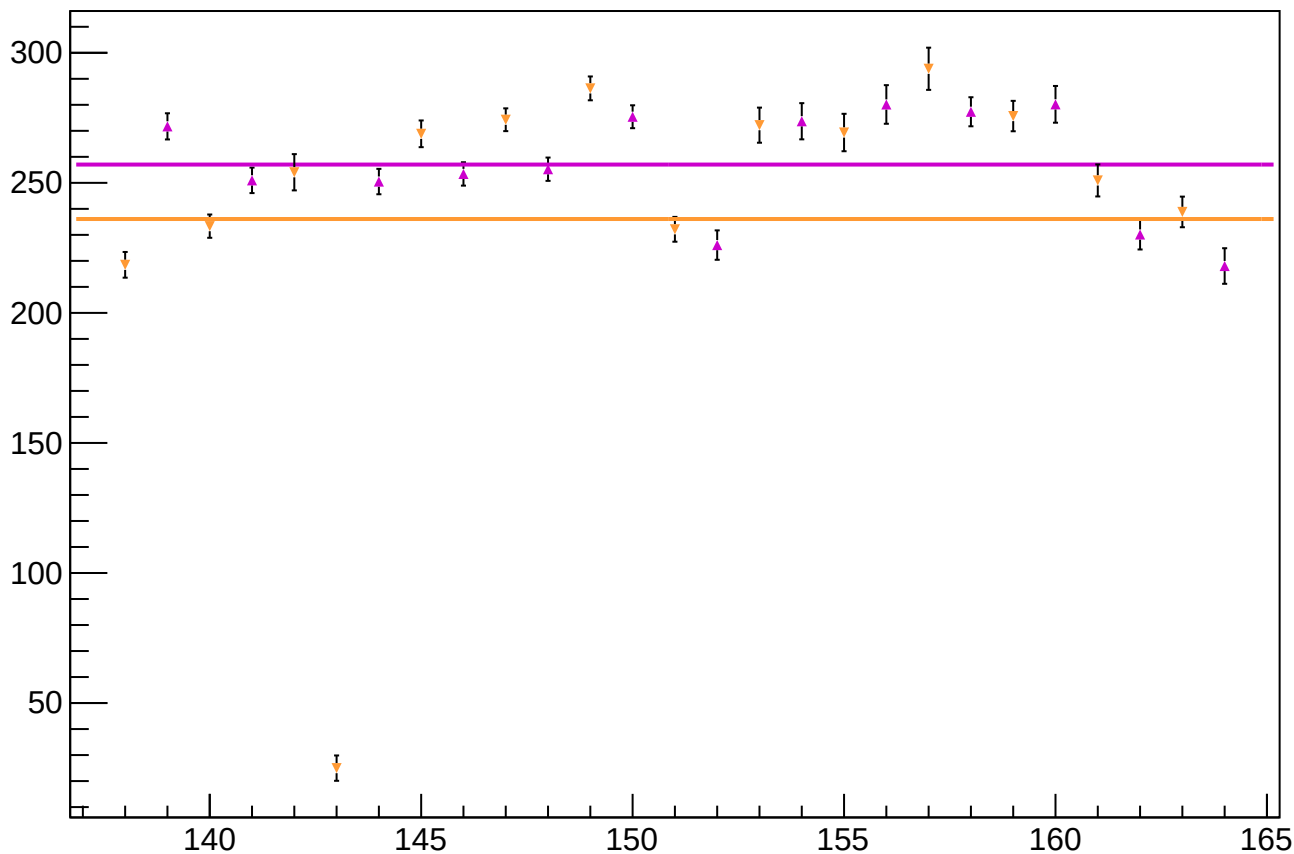
Right:  $-56.499 \pm 0.043$   $\chi^2/\text{NDF}: 2110811.0/35$

In:  $-107.001 \pm 0.045$   $\chi^2/\text{NDF}: 2525185.7/29$

Out:  $-98.857 \pm 0.044$   $\chi^2/\text{NDF}: 2737340.3/32$

All:  $-102.844 \pm 0.032$   $\chi^2/\text{NDF}: 5279153.0/62$

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: 236.098+/-1.449  $\chi^2/\text{NDF}$ :2288.9/13

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

Left In: 257.031+/-1.494  $\chi^2/\text{NDF}$ :153.7/12

Left: 246.244+/-1.040  $\chi^2/\text{NDF}$ : 2543.7/26

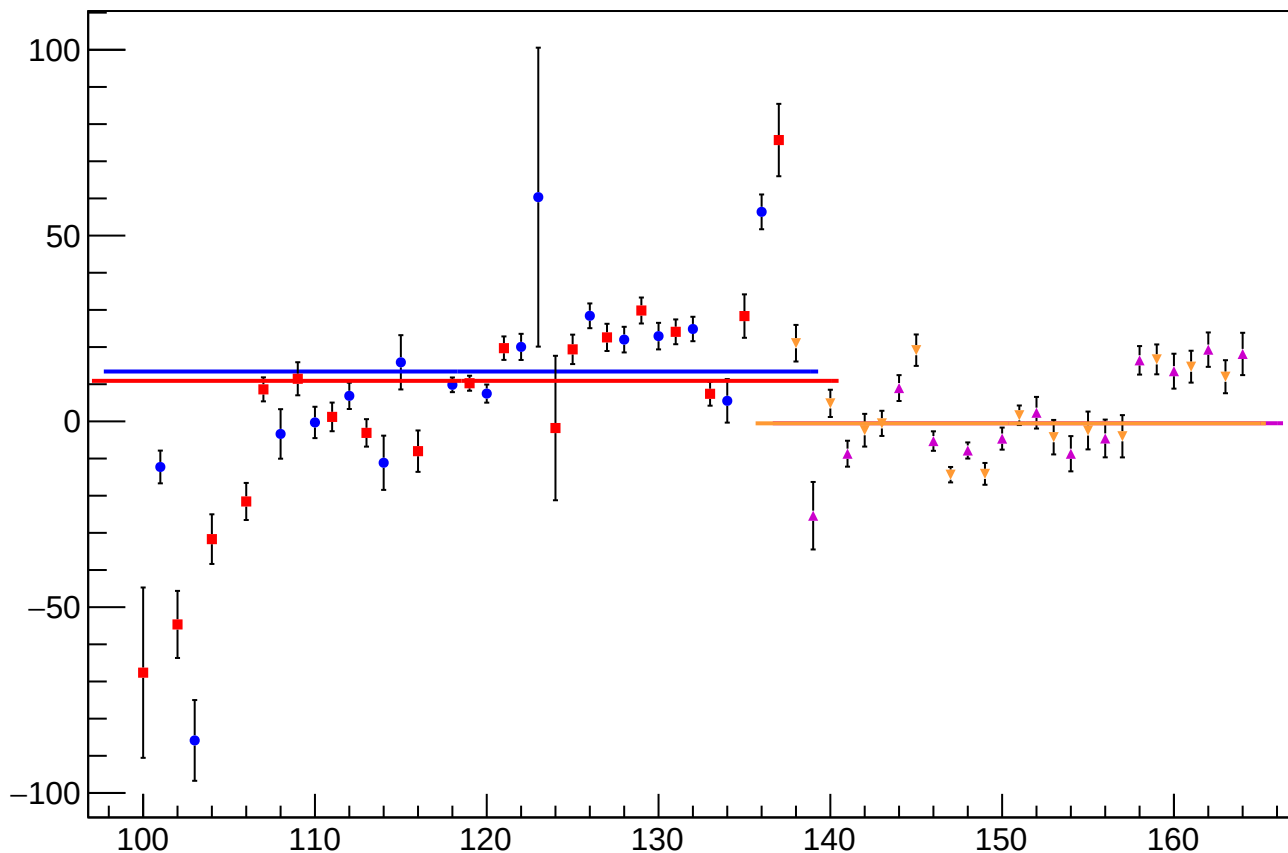
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 257.031+/-1.494  $\chi^2/\text{NDF}$ :153.7/12

Out: 236.098+/-1.449  $\chi^2/\text{NDF}$ :2288.9/13

All: 246.244+/-1.040  $\chi^2/\text{NDF}$ : 2543.7/26

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $13.423 \pm 0.920$   $\chi^2/\text{NDF}: 295.2/16$

Left Out:  $-0.528 \pm 0.960$   $\chi^2/\text{NDF}: 149.7/13$

Right Out:  $10.908 \pm 0.916$   $\chi^2/\text{NDF}: 302.6/18$

Left In:  $-0.499 \pm 1.012$   $\chi^2/\text{NDF}: 98.6/12$

Left:  $-0.514 \pm 0.696$   $\chi^2/\text{NDF}: 248.3/26$

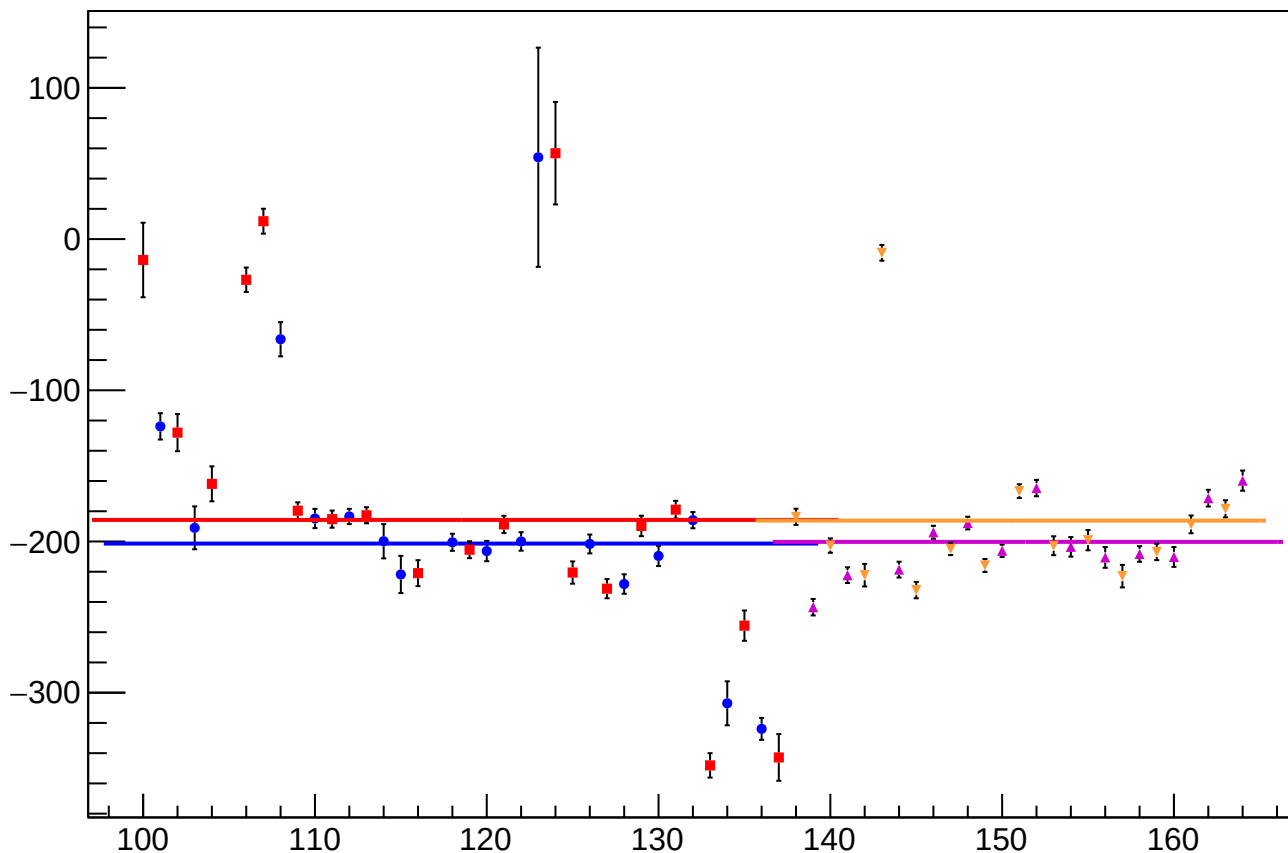
Right:  $12.160 \pm 0.649$   $\chi^2/\text{NDF}: 601.6/35$

In:  $7.126 \pm 0.681$   $\chi^2/\text{NDF}: 497.5/29$

Out:  $5.457 \pm 0.663$   $\chi^2/\text{NDF}: 526.5/32$

All:  $6.269 \pm 0.475$   $\chi^2/\text{NDF}: 1027.1/62$

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:  $-186.185 \pm 1.428$   $\chi^2/\text{NDF}$ : 1406.5/13

Right Out:  $-185.739 \pm 1.700$   $\chi^2/\text{NDF}$ : 1749.3/18

Left In:  $-200.254 \pm 1.455$   $\chi^2/\text{NDF}$ : 220.5/12

Left:  $-193.088 \pm 1.019$   $\chi^2/\text{NDF}$ : 1674.6/26

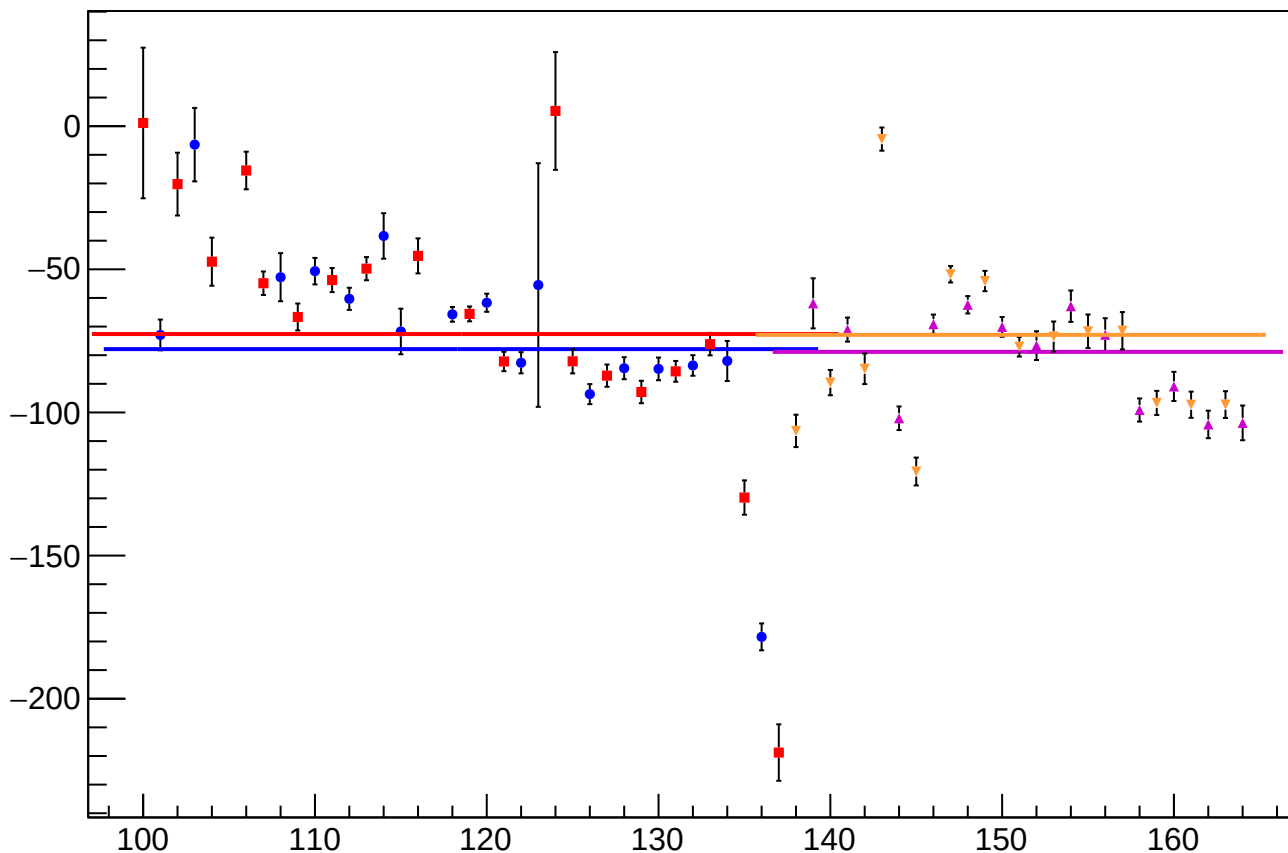
Right:  $-193.204 \pm 1.229$   $\chi^2/\text{NDF}$ : 2413.2/35

In:  $-200.707 \pm 1.127$   $\chi^2/\text{NDF}$ : 844.2/29

Out:  $-186.000 \pm 1.094$   $\chi^2/\text{NDF}$ : 3155.8/32

All:  $-193.135 \pm 0.785$   $\chi^2/\text{NDF}$ : 4087.8/62

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:  $-72.897 \pm 1.158$   $\chi^2/\text{NDF}$ : 608.0/13

Right Out:  $-72.612 \pm 1.054$   $\chi^2/\text{NDF}$ : 606.9/18

Left In:  $-78.838 \pm 1.210$   $\chi^2/\text{NDF}$ : 167.8/12

Left:  $-75.736 \pm 0.837$   $\chi^2/\text{NDF}$ : 788.3/26

Right:  $-75.215 \pm 0.749$   $\chi^2/\text{NDF}$ : 1277.4/35

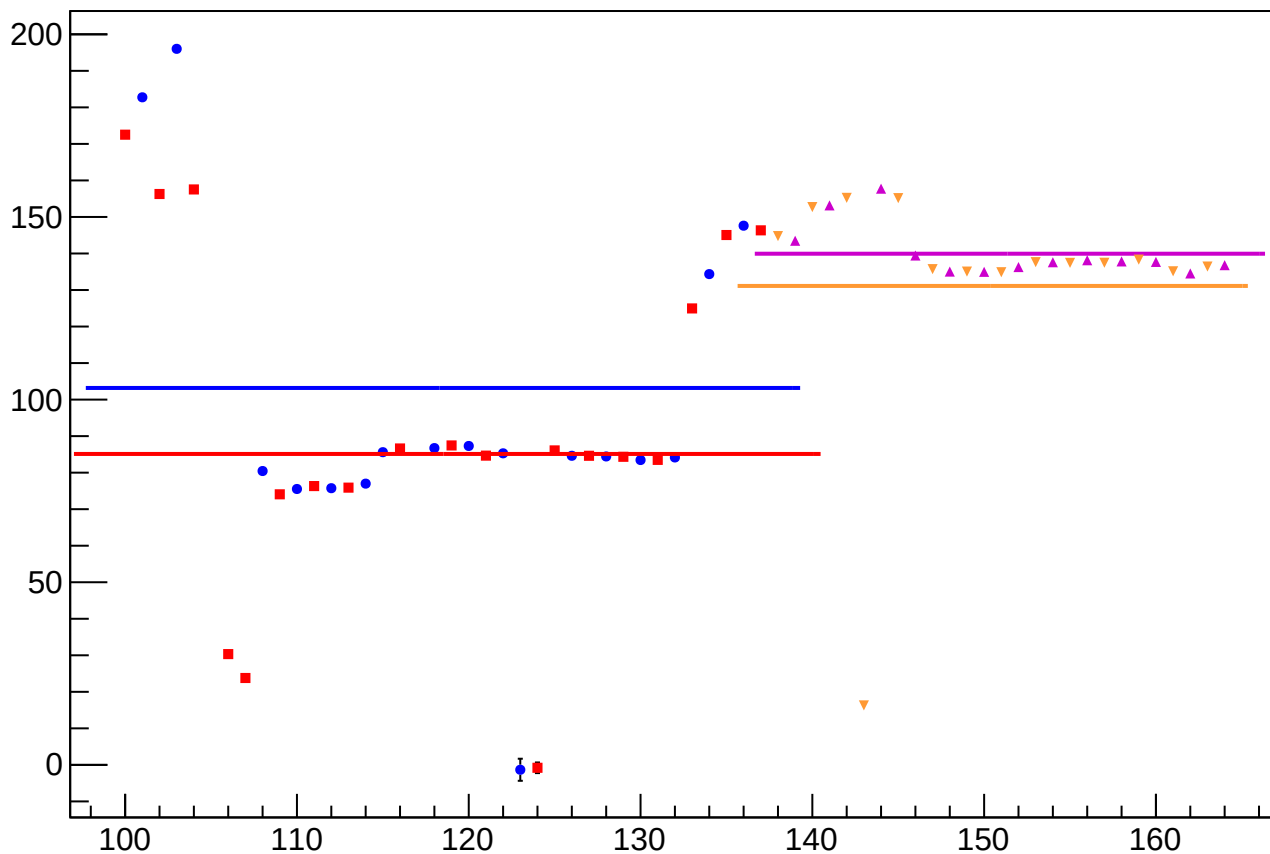
In:  $-78.297 \pm 0.800$   $\chi^2/\text{NDF}$ : 826.3/29

Out:  $-72.741 \pm 0.779$   $\chi^2/\text{NDF}$ : 1214.9/32

All:  $-75.447 \pm 0.558$   $\chi^2/\text{NDF}$ : 2065.9/62



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: 131.117 $\pm$ 0.057  $\chi^2$ /NDF:344925.1/13

Right Out: 85.121 $\pm$ 0.064  $\chi^2$ /NDF: 423521.4/18

Left In: 139.938 $\pm$ 0.058  $\chi^2$ /NDF:13325.0/12

Left: 135.476 $\pm$ 0.041  $\chi^2$ /NDF: 369959.0/26

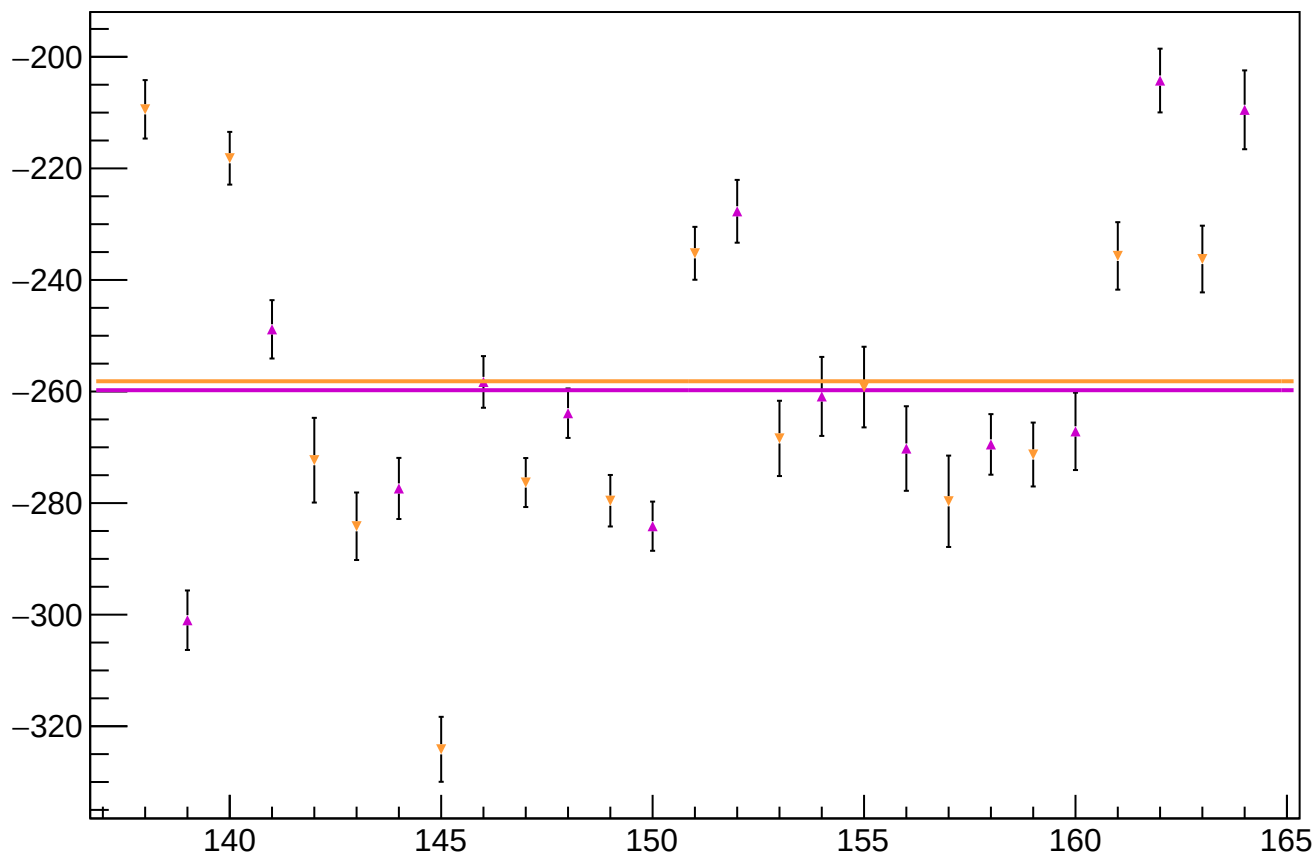
Right: 93.266 $\pm$ 0.047  $\chi^2$ /NDF: 733347.5/35

In: 125.071 $\pm$ 0.045  $\chi^2$ /NDF:449477.0/29

Out: 110.551 $\pm$ 0.043  $\chi^2$ /NDF:1056478.4/32

All: 117.458 $\pm$ 0.031  $\chi^2$ /NDF: 1561188.1/62

reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -258.159 $\pm$ 1.507  $\chi^2$ /NDF:412.2/13

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

Left In: -259.763 $\pm$ 1.528  $\chi^2$ /NDF:289.7/12

Left: -258.950 $\pm$ 1.073  $\chi^2$ /NDF: 702.4/26

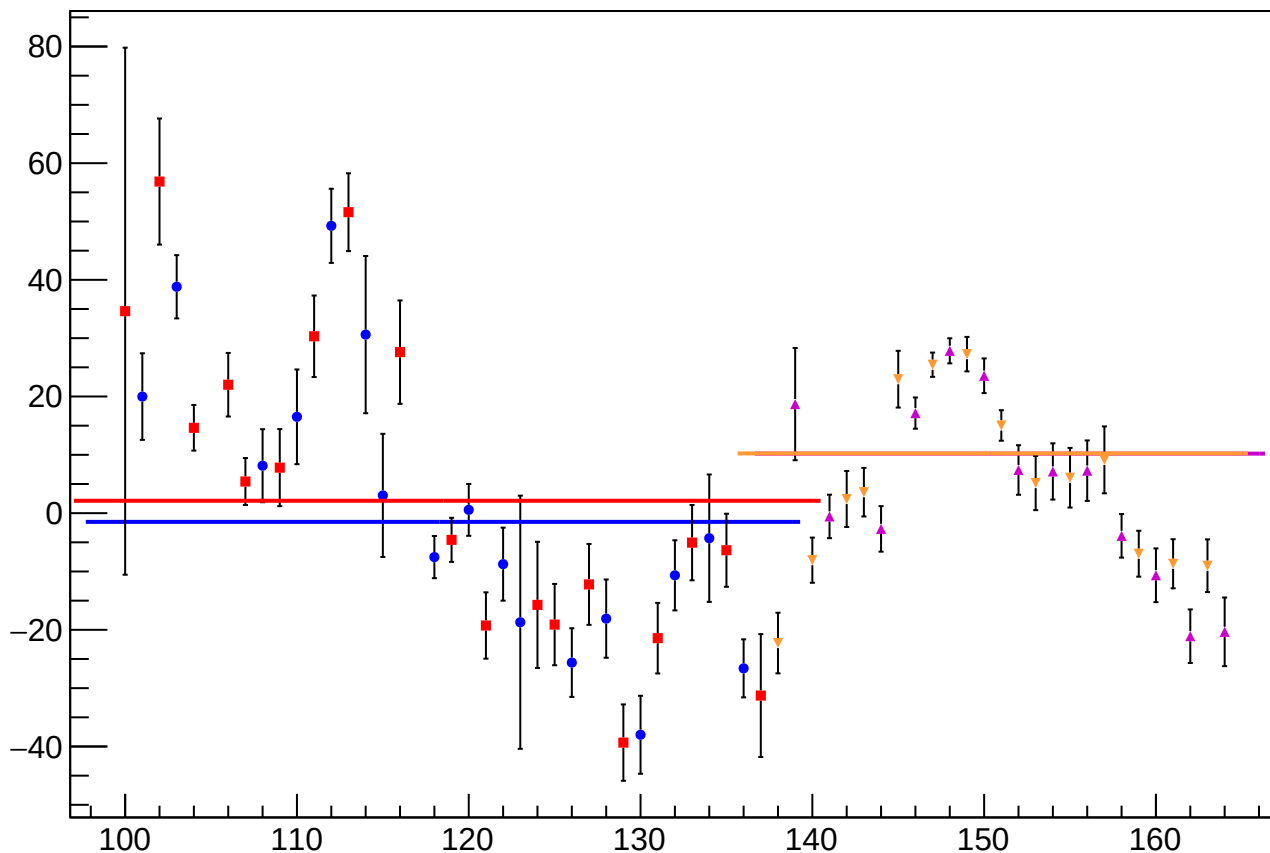
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -259.763 $\pm$ 1.528  $\chi^2$ /NDF:289.7/12

Out: -258.159 $\pm$ 1.507  $\chi^2$ /NDF:412.2/13

All: -258.950 $\pm$ 1.073  $\chi^2$ /NDF: 702.4/26

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:  $10.241 \pm 0.988$   $\chi^2/\text{NDF}$ : 222.8/13

Right Out:  $2.127 \pm 1.402$   $\chi^2/\text{NDF}$ : 232.6/18

Left In:  $10.207 \pm 1.027$   $\chi^2/\text{NDF}$ : 223.5/12

Left:  $10.224 \pm 0.712$   $\chi^2/\text{NDF}$ : 446.3/26

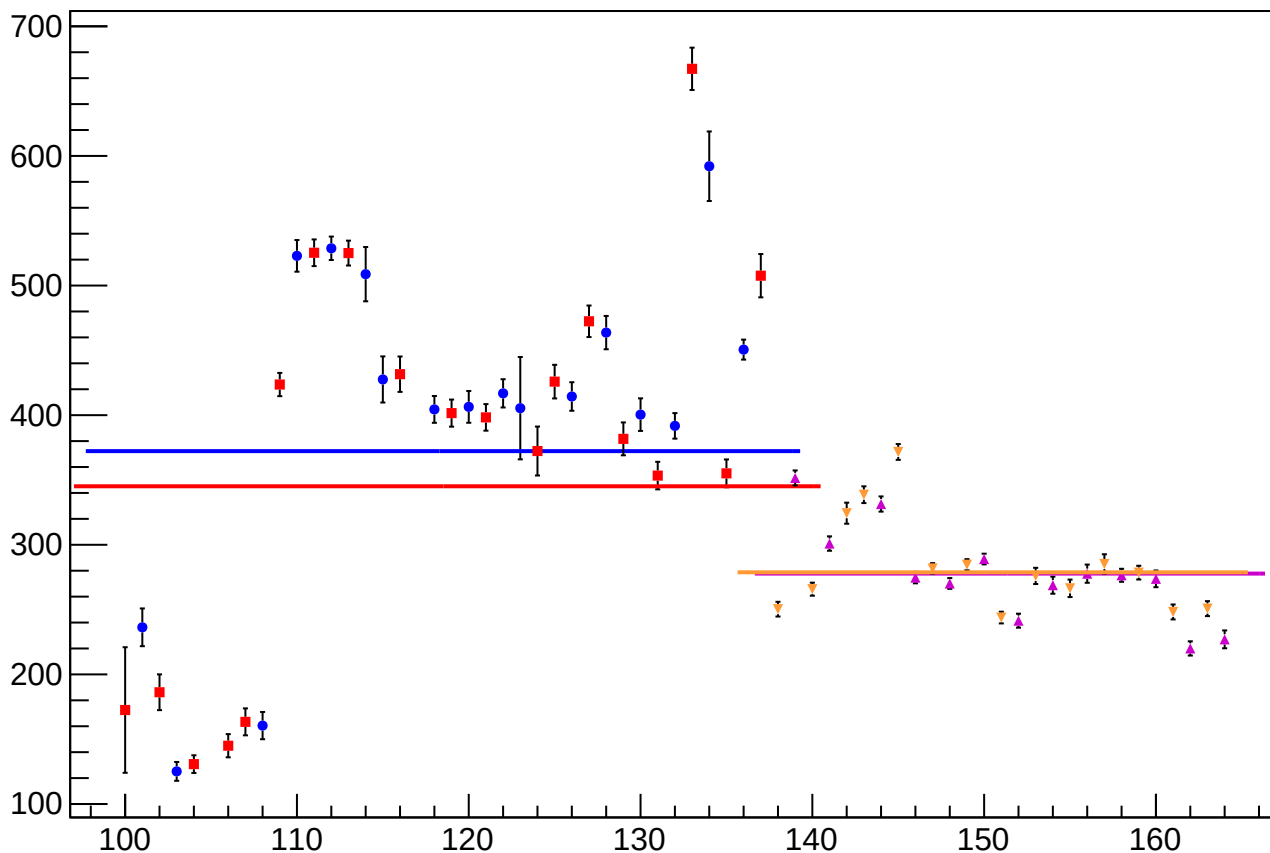
Right:  $0.455 \pm 1.029$   $\chi^2/\text{NDF}$ : 461.8/35

In:  $6.518 \pm 0.850$   $\chi^2/\text{NDF}$ : 490.5/29

Out:  $7.548 \pm 0.808$   $\chi^2/\text{NDF}$ : 477.8/32

All:  $7.059 \pm 0.585$   $\chi^2/\text{NDF}$ : 969.1/62

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 372.263+/-2.759  $\chi^2/\text{NDF}$ : 2433.1/16

Left Out: 278.762+/-1.476  $\chi^2/\text{NDF}$ : 498.3/13

Right Out: 345.135+/-2.562  $\chi^2/\text{NDF}$ : 3416.5/18

Left In: 277.778+/-1.482  $\chi^2/\text{NDF}$ : 488.1/12

Left: 278.273+/-1.046  $\chi^2/\text{NDF}$ : 986.6/26

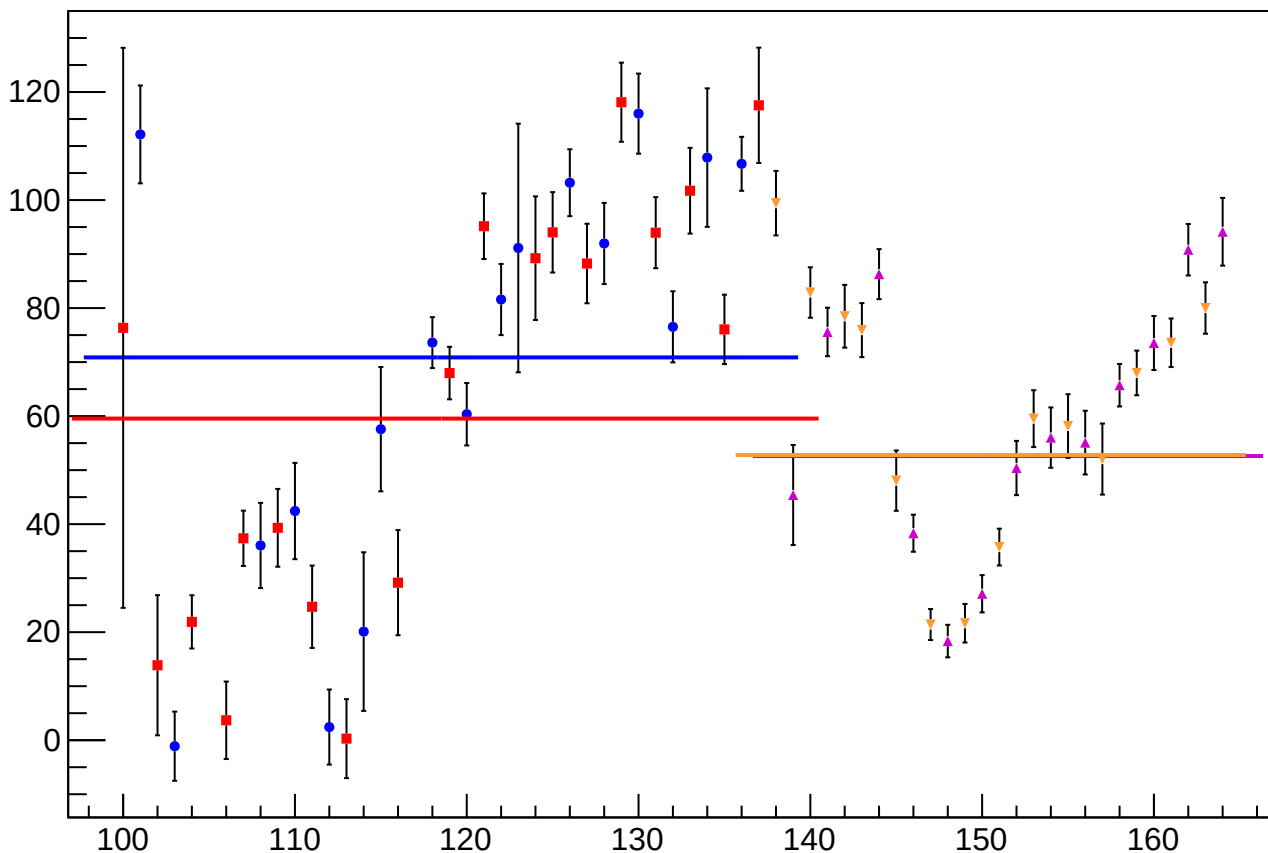
Right: 357.695+/-1.878  $\chi^2/\text{NDF}$ : 5901.5/35

In: 298.940+/-1.306  $\chi^2/\text{NDF}$ : 3831.1/29

Out: 295.296+/-1.279  $\chi^2/\text{NDF}$ : 4418.7/32

All: 297.080+/-0.914  $\chi^2/\text{NDF}$ : 8253.7/62

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: 52.802 $\pm$ 1.194  $\chi^2$ /NDF: 434.7/13

Right Out: 59.546 $\pm$ 1.633  $\chi^2$ /NDF: 490.9/18

Left In: 52.607 $\pm$ 1.229  $\chi^2$ /NDF: 418.9/12

Left: 52.707 $\pm$ 0.856  $\chi^2$ /NDF: 853.6/26

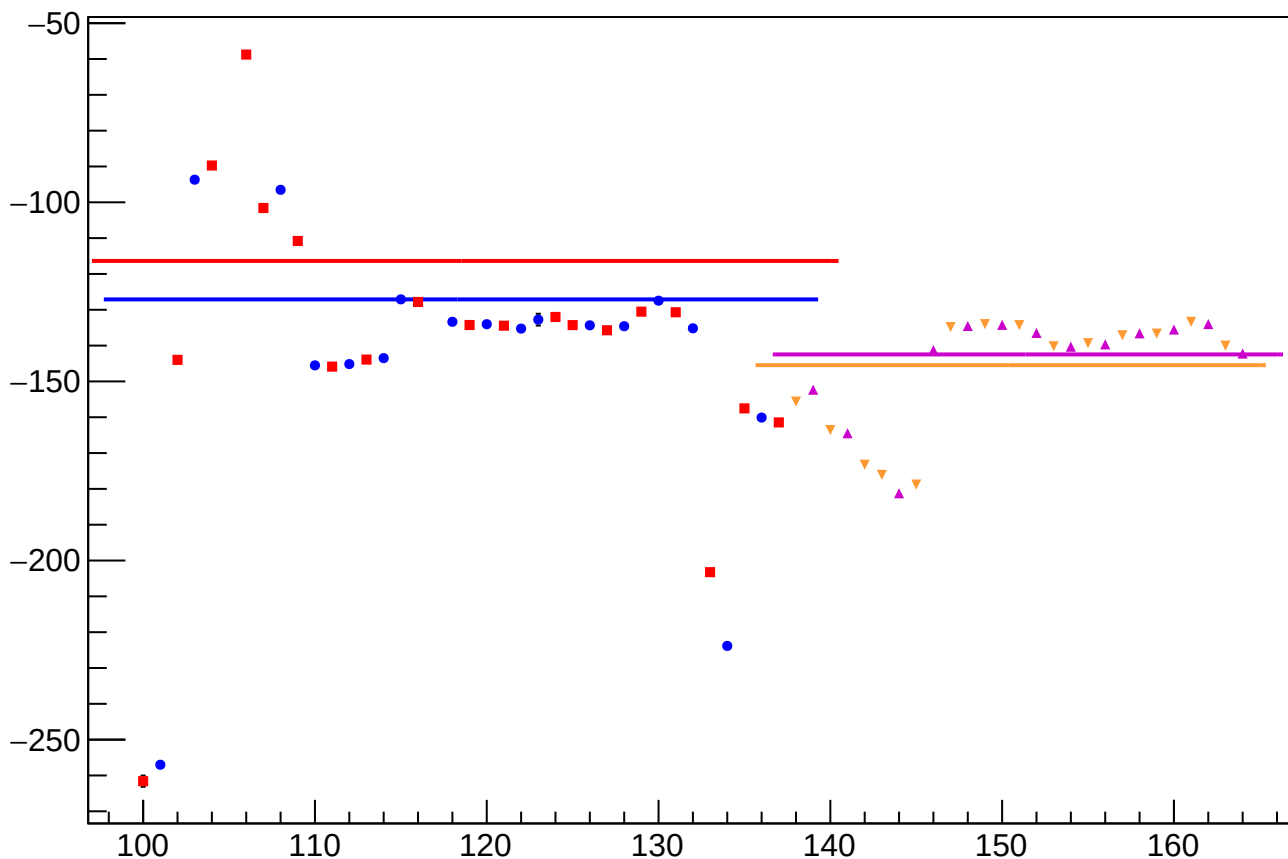
Right: 64.838 $\pm$ 1.192  $\chi^2$ /NDF: 940.3/35

In: 58.672 $\pm$ 1.004  $\chi^2$ /NDF: 919.1/29

Out: 55.151 $\pm$ 0.964  $\chi^2$ /NDF: 936.7/32

All: 56.838 $\pm$ 0.695  $\chi^2$ /NDF: 1862.2/62

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: -145.463+/-0.059  $\chi^2/\text{NDF}$ : 67275.8/13

Right Out: -116.369+/-0.083  $\chi^2/\text{NDF}$ : 167595.6/18

Left In: -142.466+/-0.059  $\chi^2/\text{NDF}$ : 43453.4/12

Left: -143.959+/-0.042  $\chi^2/\text{NDF}$ : 112015.3/26

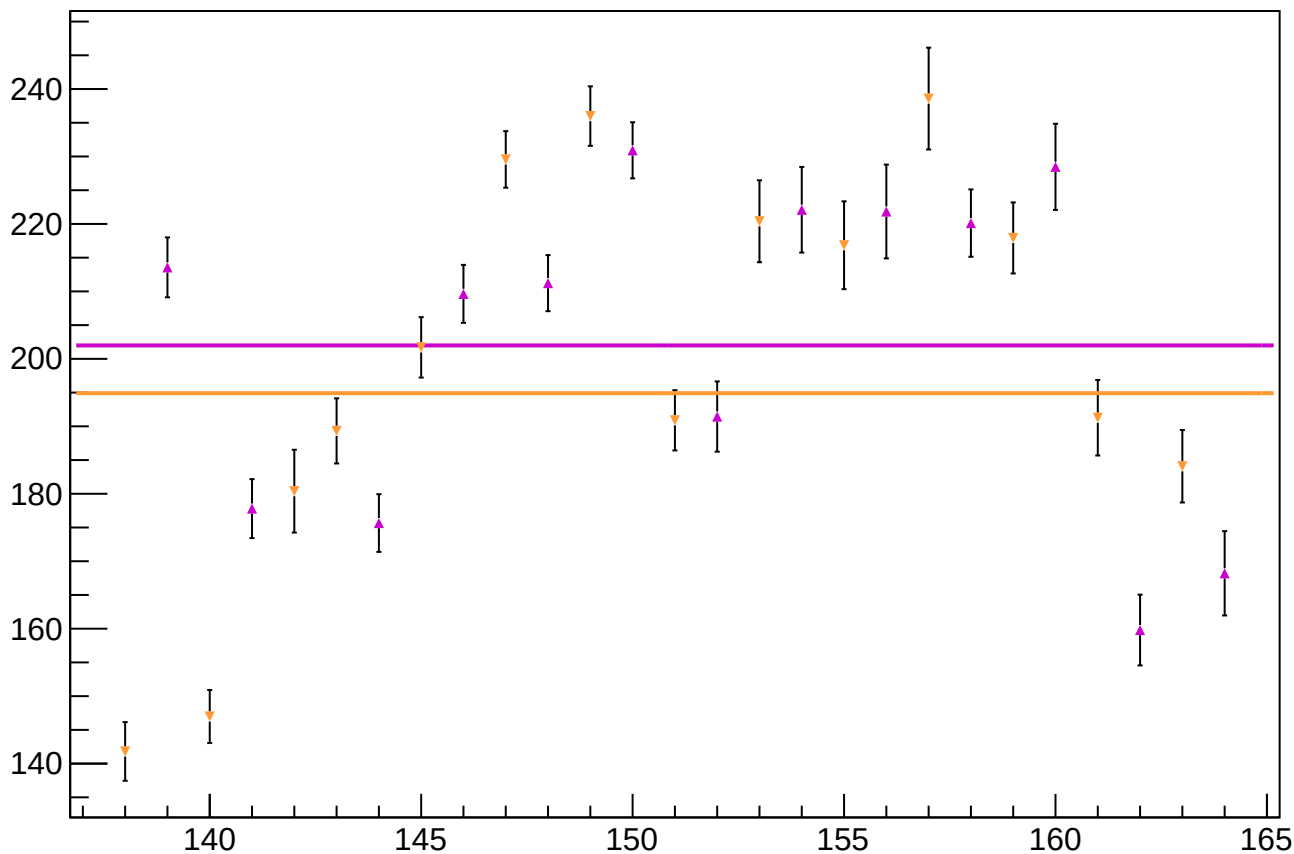
Right: -121.332+/-0.061  $\chi^2/\text{NDF}$ : 342408.2/35

In: -137.810+/-0.049  $\chi^2/\text{NDF}$ : 231077.5/29

Out: -135.637+/-0.048  $\chi^2/\text{NDF}$ : 316395.8/32

All: -136.700+/-0.034  $\chi^2/\text{NDF}$ : 548467.9/62

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: 194.914+/-1.329  $\chi^2/\text{NDF}$ : 548.8/13

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

Left In: 201.992+/-1.365  $\chi^2/\text{NDF}$ : 278.4/12

Left: 198.357+/-0.952  $\chi^2/\text{NDF}$ : 841.0/26

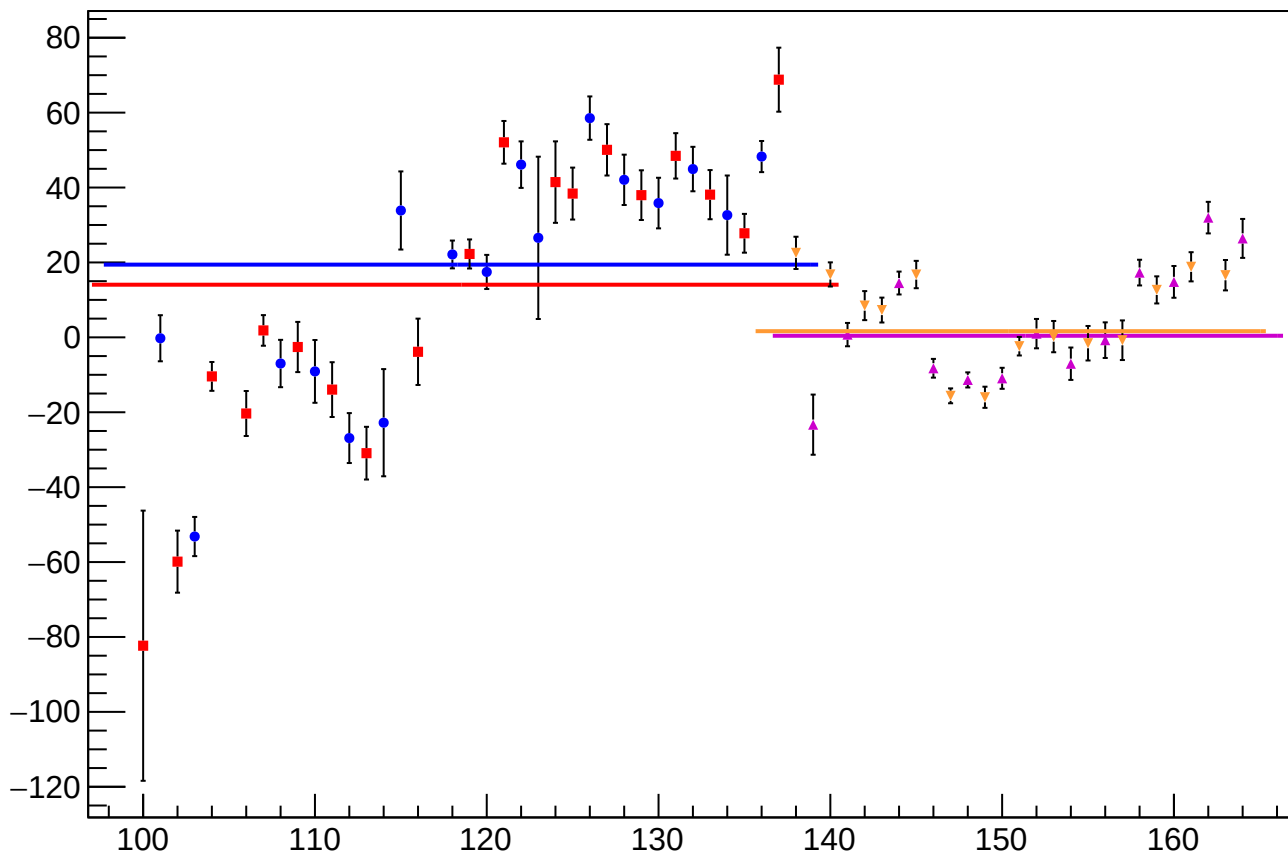
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 201.992+/-1.365  $\chi^2/\text{NDF}$ : 278.4/12

Out: 194.914+/-1.329  $\chi^2/\text{NDF}$ : 548.8/13

All: 198.357+/-0.952  $\chi^2/\text{NDF}$ : 841.0/26

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:  $1.647 \pm 0.888$   $\chi^2/\text{NDF}$ : 229.2/13

Right Out:  $14.055 \pm 1.392$   $\chi^2/\text{NDF}$ : 436.5/18

Left In:  $0.424 \pm 0.931$   $\chi^2/\text{NDF}$ : 212.3/12

Left:  $1.064 \pm 0.643$   $\chi^2/\text{NDF}$ : 442.5/26

Right:  $16.572 \pm 1.014$   $\chi^2/\text{NDF}$ : 884.6/35

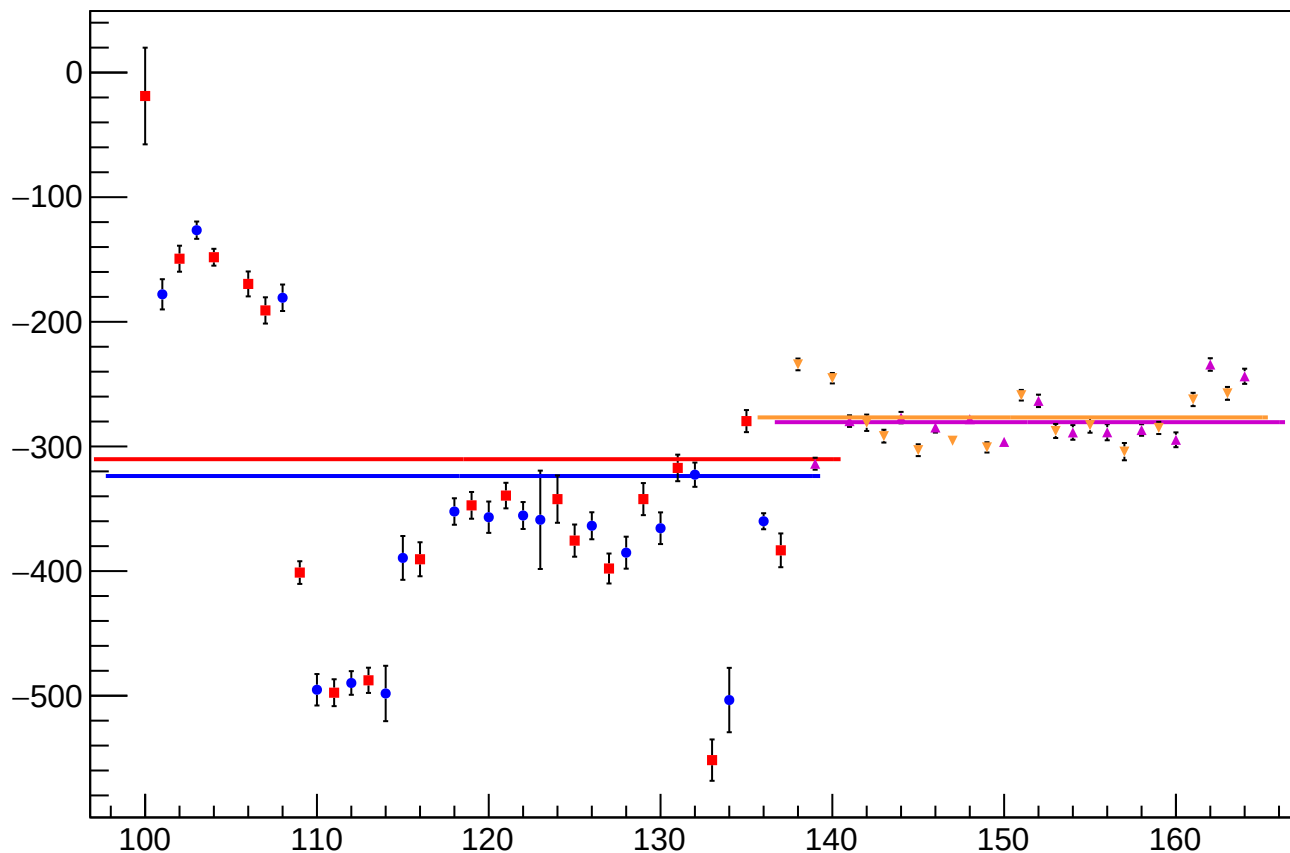
In:  $5.807 \pm 0.788$   $\chi^2/\text{NDF}$ : 771.4/29

Out:  $5.237 \pm 0.749$   $\chi^2/\text{NDF}$ : 722.3/32

All:  $5.508 \pm 0.543$   $\chi^2/\text{NDF}$ : 1494.0/62



reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -323.721+/-2.668  $\chi^2/\text{NDF}$ : 1850.8/16

Left Out: -276.685+/-1.313  $\chi^2/\text{NDF}$ : 296.4/13

Right Out: -310.223+/-2.523  $\chi^2/\text{NDF}$ : 2300.0/18

Left In: -280.514+/-1.333  $\chi^2/\text{NDF}$ : 210.1/12

Left: -278.571+/-0.935  $\chi^2/\text{NDF}$ : 510.7/26

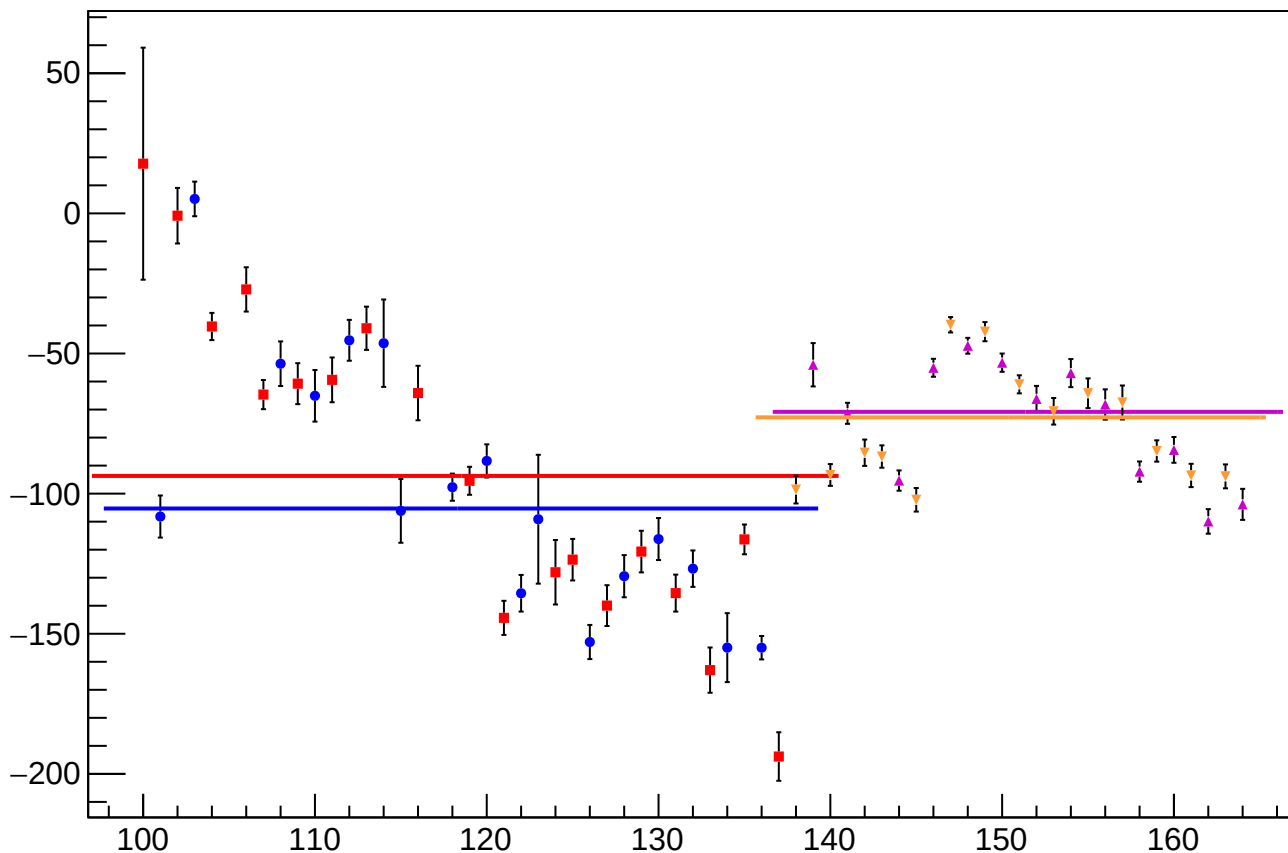
Right: -316.595+/-1.833  $\chi^2/\text{NDF}$ : 4164.2/35

In: -289.140+/-1.192  $\chi^2/\text{NDF}$ : 2270.7/29

Out: -283.831+/-1.165  $\chi^2/\text{NDF}$ : 2735.4/32

All: -286.424+/-0.833  $\chi^2/\text{NDF}$ : 5016.3/62

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:  $-72.781 \pm 1.068$   $\chi^2/\text{NDF}$ : 425.5/13

Right Out:  $-93.680 \pm 1.612$   $\chi^2/\text{NDF}$ : 826.5/18

Left In:  $-70.821 \pm 1.111$   $\chi^2/\text{NDF}$ : 341.1/12

Left:  $-71.840 \pm 0.770$   $\chi^2/\text{NDF}$ : 768.2/26

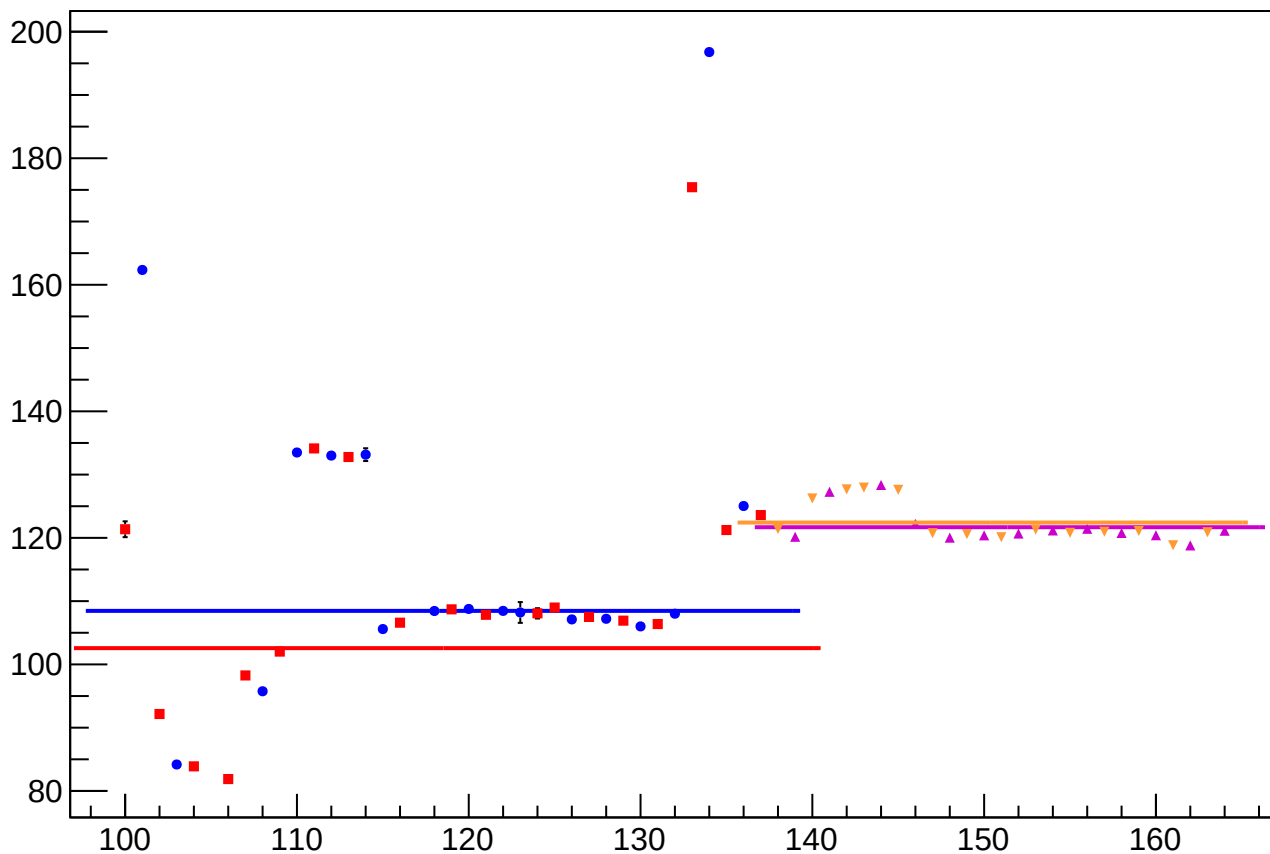
Right:  $-99.207 \pm 1.167$   $\chi^2/\text{NDF}$ : 1588.8/35

In:  $-81.196 \pm 0.929$   $\chi^2/\text{NDF}$ : 1368.7/29

Out:  $-79.161 \pm 0.890$   $\chi^2/\text{NDF}$ : 1368.8/32

All:  $-80.136 \pm 0.643$   $\chi^2/\text{NDF}$ : 2740.0/62

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: 122.424 $\pm$ 0.053  $\chi^2$ /NDF:3253.8/13

Right Out: 102.570 $\pm$ 0.079  $\chi^2$ /NDF: 53143.8/18

Left In: 121.682 $\pm$ 0.053  $\chi^2$ /NDF:2557.5/12

Left: 122.056 $\pm$ 0.037  $\chi^2$ /NDF: 5910.0/26

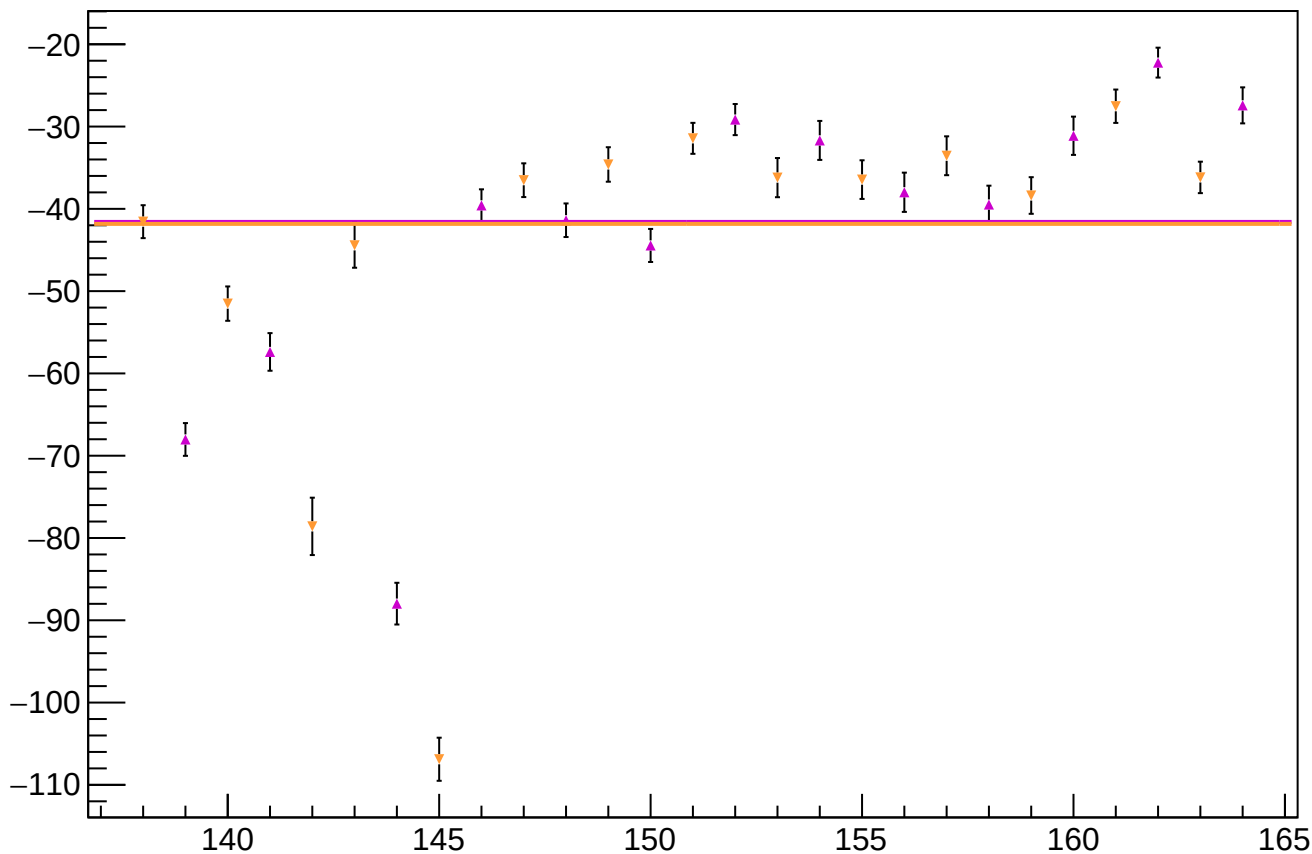
Right: 105.327 $\pm$ 0.058  $\chi^2$ /NDF: 129018.0/35

In: 117.966 $\pm$ 0.045  $\chi^2$ /NDF:93369.3/29

Out: 116.380 $\pm$ 0.044  $\chi^2$ /NDF:99823.8/32

All: 117.154 $\pm$ 0.031  $\chi^2$ /NDF: 193831.2/62

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



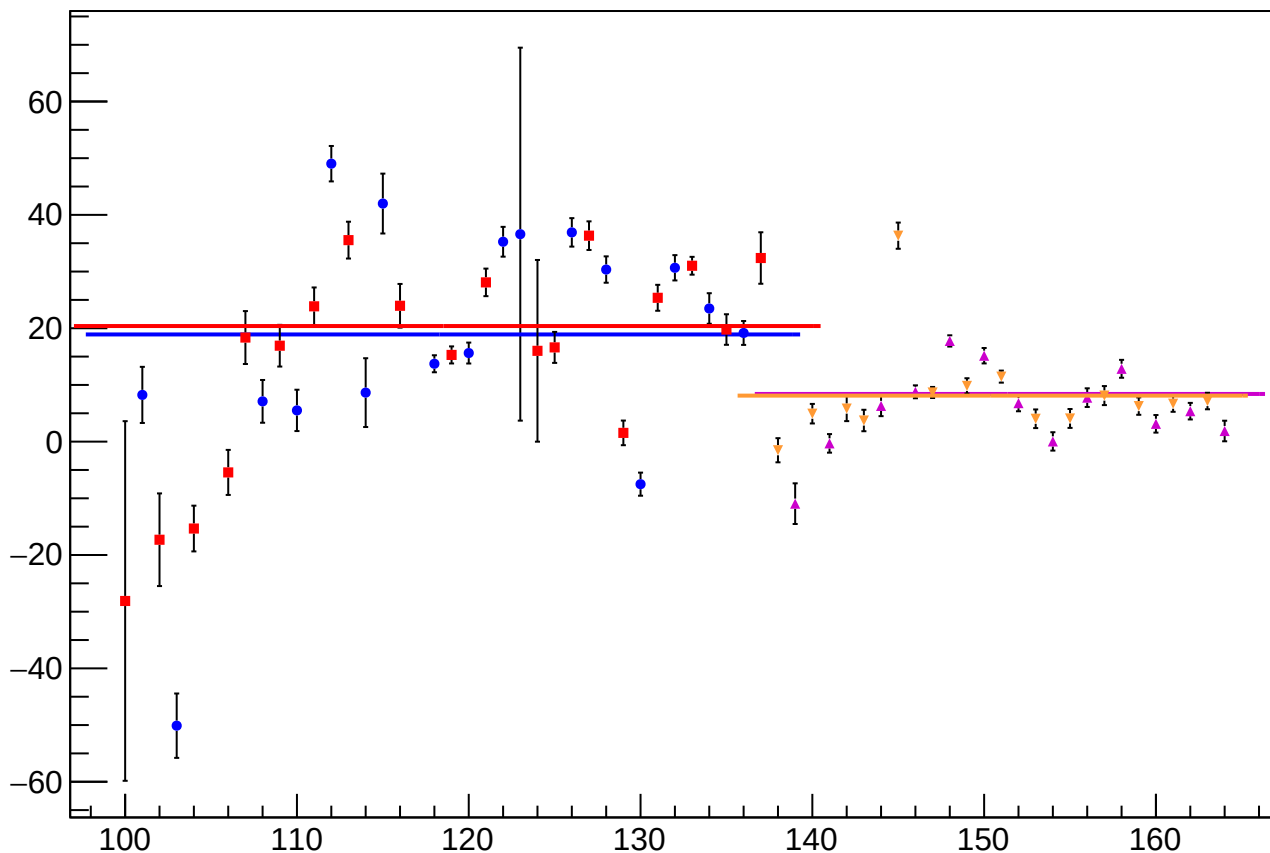
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.828+/-0.593  $\chi^2/\text{NDF}$ :883.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -41.590+/-0.590  $\chi^2/\text{NDF}$ :801.7/12

Left: -41.708+/-0.418  $\chi^2/\text{NDF}$ : 1685.6/26  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -41.590+/-0.590  $\chi^2/\text{NDF}$ :801.7/12  
 Out: -41.828+/-0.593  $\chi^2/\text{NDF}$ :883.9/13

All: -41.708+/-0.418  $\chi^2/\text{NDF}$ : 1685.6/26

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: 8.115 $\pm$ 0.402  $\chi^2$ /NDF:206.2/13

Right Out: 20.390 $\pm$ 0.644  $\chi^2$ /NDF: 365.3/18

Left In: 8.409 $\pm$ 0.411  $\chi^2$ /NDF:237.1/12

Left: 8.259 $\pm$ 0.288  $\chi^2$ /NDF: 443.6/26

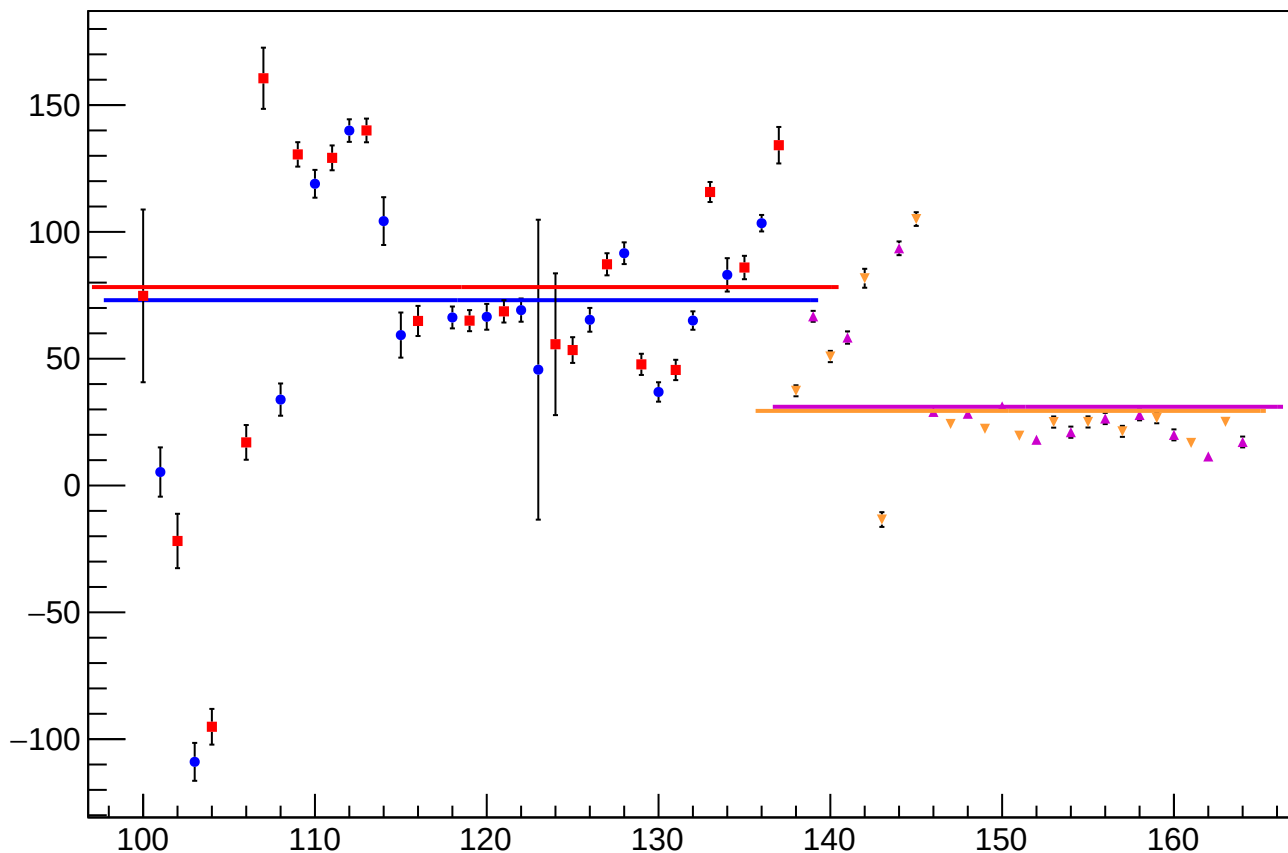
Right: 19.648 $\pm$ 0.455  $\chi^2$ /NDF: 986.9/35

In: 11.454 $\pm$ 0.347  $\chi^2$ /NDF:1045.0/29

Out: 11.560 $\pm$ 0.341  $\chi^2$ /NDF:833.0/32

All: 11.508 $\pm$ 0.243  $\chi^2$ /NDF: 1878.0/62

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 73.071 $\pm$ 1.228  $\chi^2$ /NDF: 1200.0/16

Left Out: 29.424 $\pm$ 0.577  $\chi^2$ /NDF:1423.5/13

Right Out: 78.241 $\pm$ 1.223  $\chi^2$ /NDF: 1542.7/18

Left In: 31.044 $\pm$ 0.571  $\chi^2$ /NDF:1207.4/12

Left: 30.242 $\pm$ 0.406  $\chi^2$ /NDF: 2634.9/26

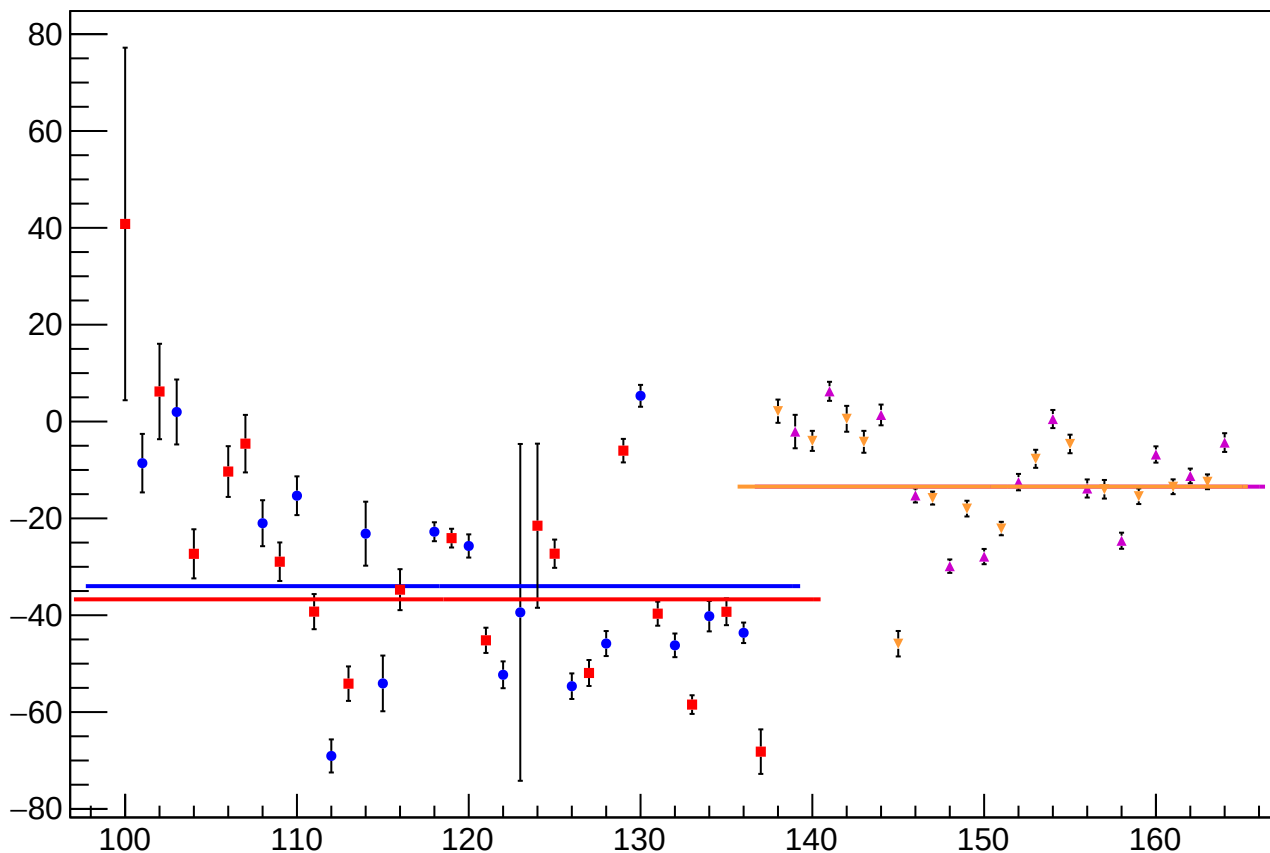
Right: 75.667 $\pm$ 0.866  $\chi^2$ /NDF: 2751.5/35

In: 38.524 $\pm$ 0.518  $\chi^2$ /NDF:3370.4/29

Out: 38.320 $\pm$ 0.522  $\chi^2$ /NDF:4270.1/32

All: 38.423 $\pm$ 0.368  $\chi^2$ /NDF: 7640.6/62

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:  $-13.438 \pm 0.476$   $\chi^2/\text{NDF}$ : 341.7/13

Right Out:  $-36.719 \pm 0.737$   $\chi^2/\text{NDF}$ : 542.9/18

Left In:  $-13.446 \pm 0.483$   $\chi^2/\text{NDF}$ : 525.2/12

Left:  $-13.442 \pm 0.339$   $\chi^2/\text{NDF}$ : 866.9/26

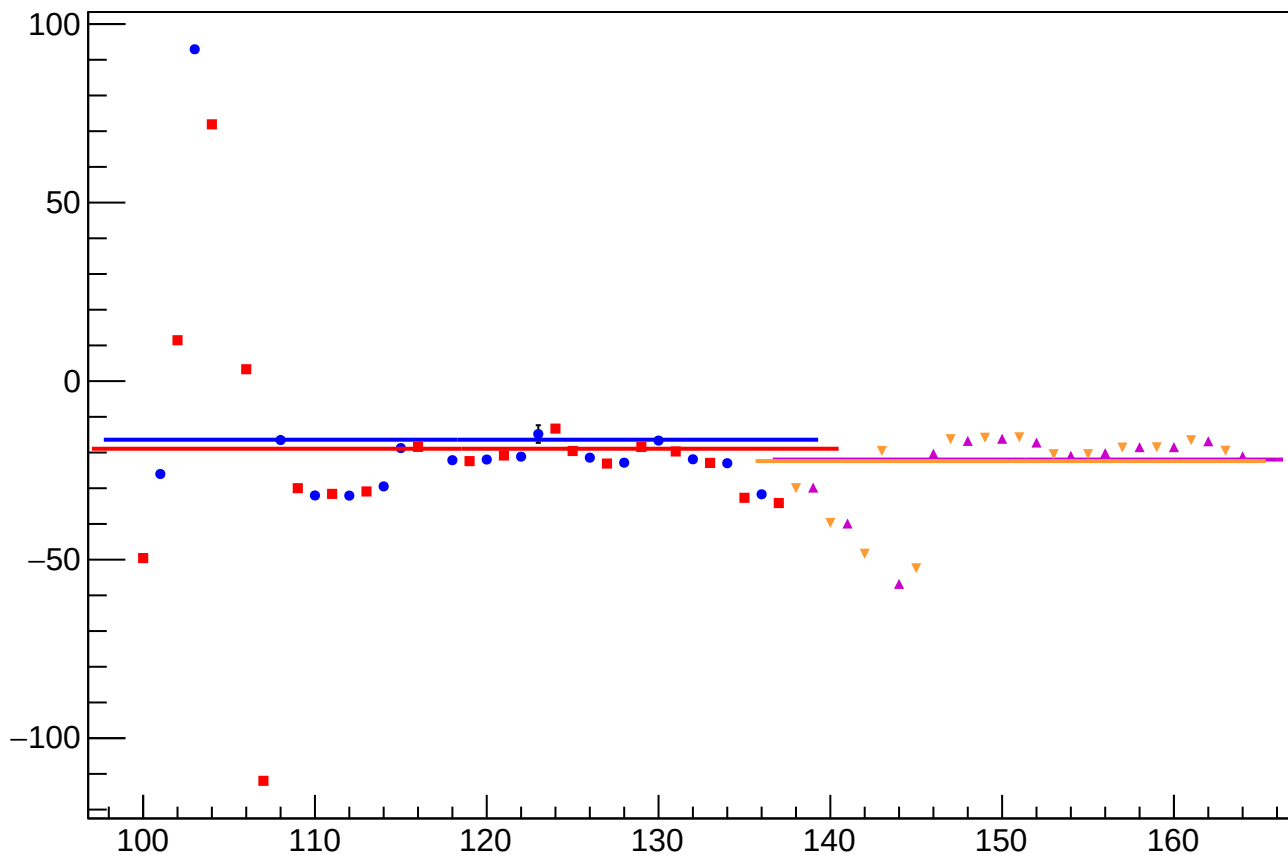
Right:  $-35.354 \pm 0.521$   $\chi^2/\text{NDF}$ : 1269.6/35

In:  $-19.627 \pm 0.404$   $\chi^2/\text{NDF}$ : 1789.4/29

Out:  $-20.294 \pm 0.400$   $\chi^2/\text{NDF}$ : 1589.1/32

All:  $-19.964 \pm 0.284$   $\chi^2/\text{NDF}$ : 3379.9/62

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:  $-22.394 \pm 0.023$   $\chi^2/\text{NDF}: 181979.7/13$

Right Out:  $-18.934 \pm 0.045$   $\chi^2/\text{NDF}: 434152.2/18$

Left In:  $-21.967 \pm 0.022$   $\chi^2/\text{NDF}: 154244.2/12$

Left:  $-22.178 \pm 0.016$   $\chi^2/\text{NDF}: 336404.2/26$

Right:  $-17.648 \pm 0.032$   $\chi^2/\text{NDF}: 910108.0/35$

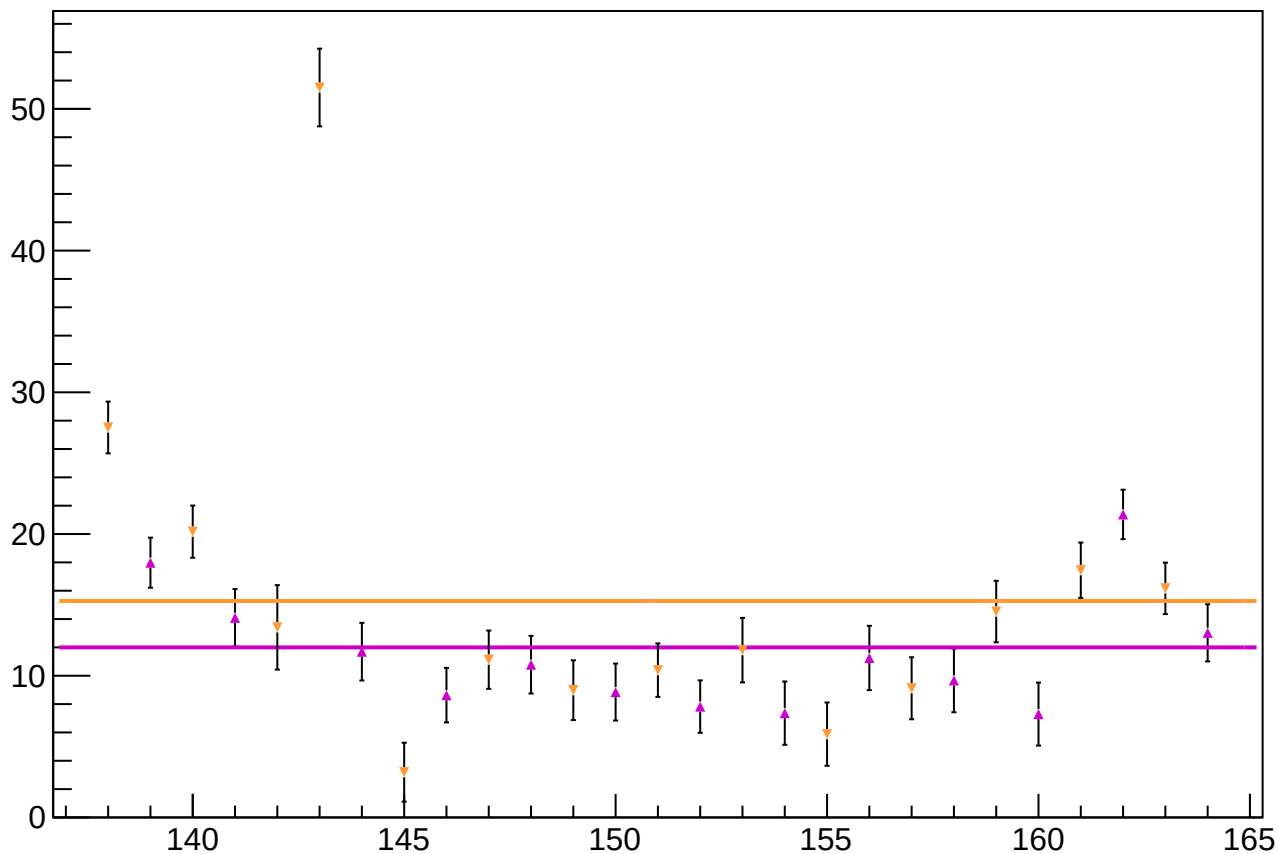
In:  $-20.844 \pm 0.020$   $\chi^2/\text{NDF}: 641110.1/29$

Out:  $-21.704 \pm 0.020$   $\chi^2/\text{NDF}: 620814.5/32$

All:  $-21.269 \pm 0.014$   $\chi^2/\text{NDF}: 1262841.7/62$



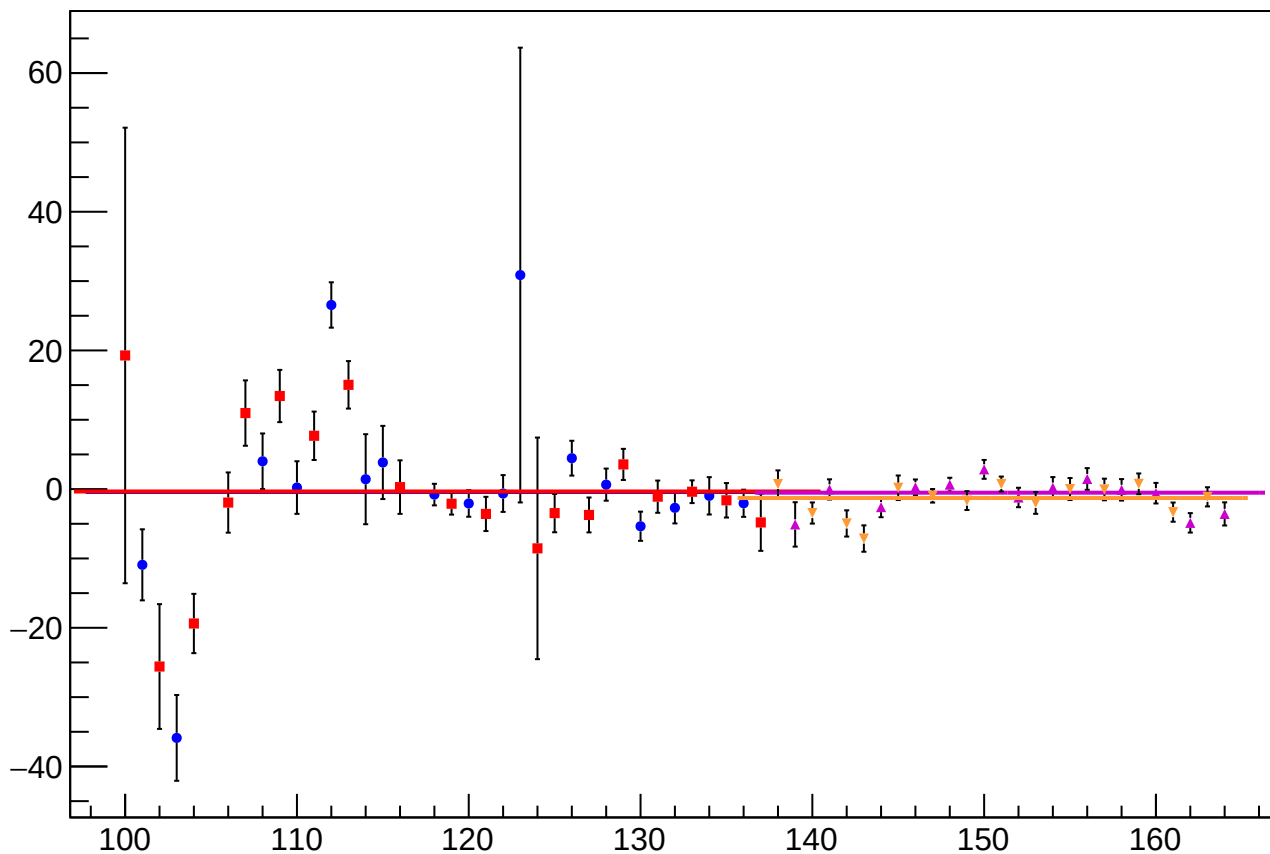
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 15.278 $\pm$ 0.560  $\chi^2/\text{NDF}$ :310.0/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 12.000 $\pm$ 0.557  $\chi^2/\text{NDF}$ :62.7/12

Left: 13.631 $\pm$ 0.395  $\chi^2/\text{NDF}$ : 390.0/26  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 12.000 $\pm$ 0.557  $\chi^2/\text{NDF}$ :62.7/12  
 Out: 15.278 $\pm$ 0.560  $\chi^2/\text{NDF}$ :310.0/13  
 All: 13.631 $\pm$ 0.395  $\chi^2/\text{NDF}$ : 390.0/26

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:  $-1.285 \pm 0.386$   $\chi^2/\text{NDF}$ : 26.3/13

Right Out:  $-0.342 \pm 0.658$   $\chi^2/\text{NDF}$ : 83.7/18

Left In:  $-0.516 \pm 0.393$   $\chi^2/\text{NDF}$ : 27.3/12

Left:  $-0.908 \pm 0.275$   $\chi^2/\text{NDF}$ : 55.5/26

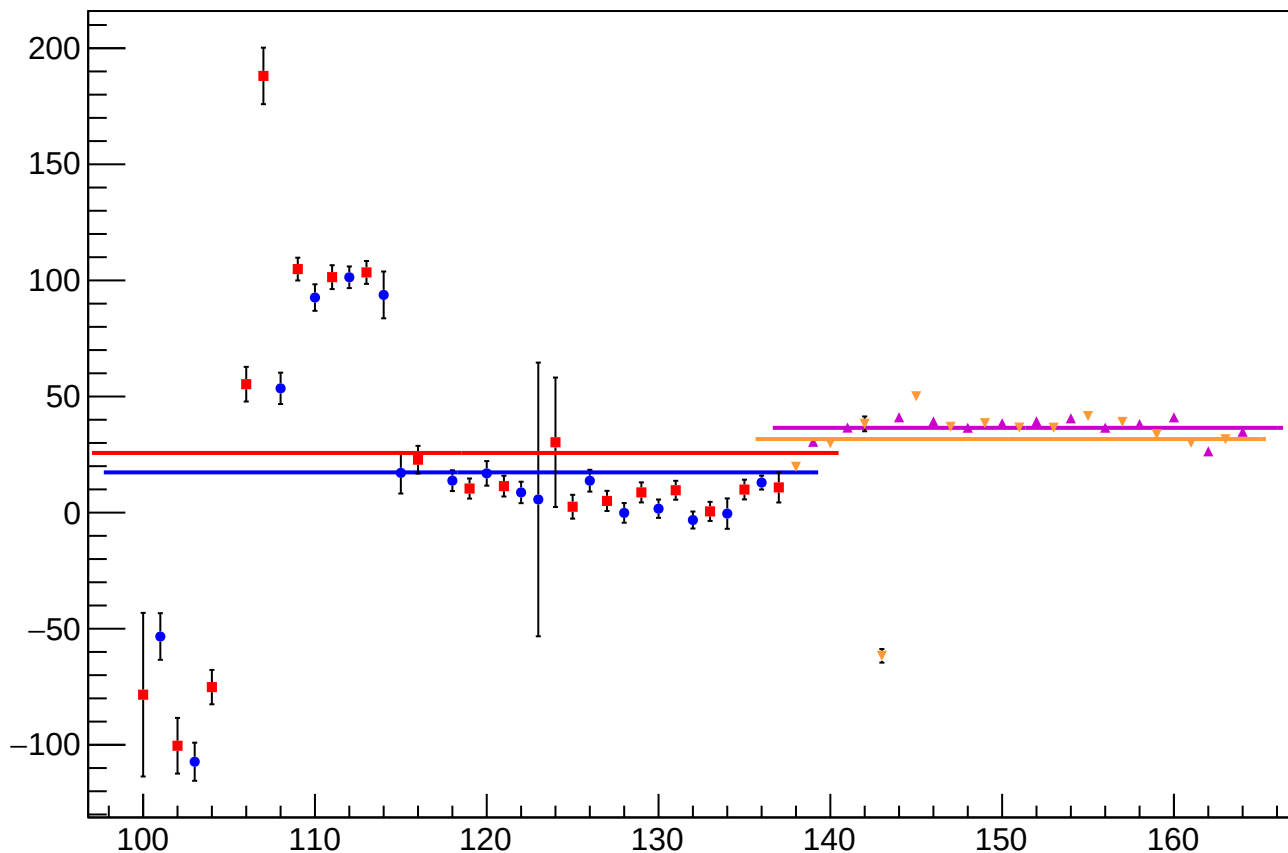
Right:  $-0.378 \pm 0.463$   $\chi^2/\text{NDF}$ : 203.7/35

In:  $-0.489 \pm 0.337$   $\chi^2/\text{NDF}$ : 147.2/29

Out:  $-1.044 \pm 0.333$   $\chi^2/\text{NDF}$ : 111.5/32

All:  $-0.770 \pm 0.237$   $\chi^2/\text{NDF}$ : 260.1/62

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.328+/-1.239  $\chi^2$ /NDF: 943.2/16

Left Out: 31.687+/-0.548  $\chi^2$ /NDF:1200.8/13

Right Out: 25.701+/-1.243  $\chi^2$ /NDF: 1379.1/18

Left In: 36.514+/-0.542  $\chi^2$ /NDF:66.6/12

Left: 34.128+/-0.385  $\chi^2$ /NDF: 1306.7/26

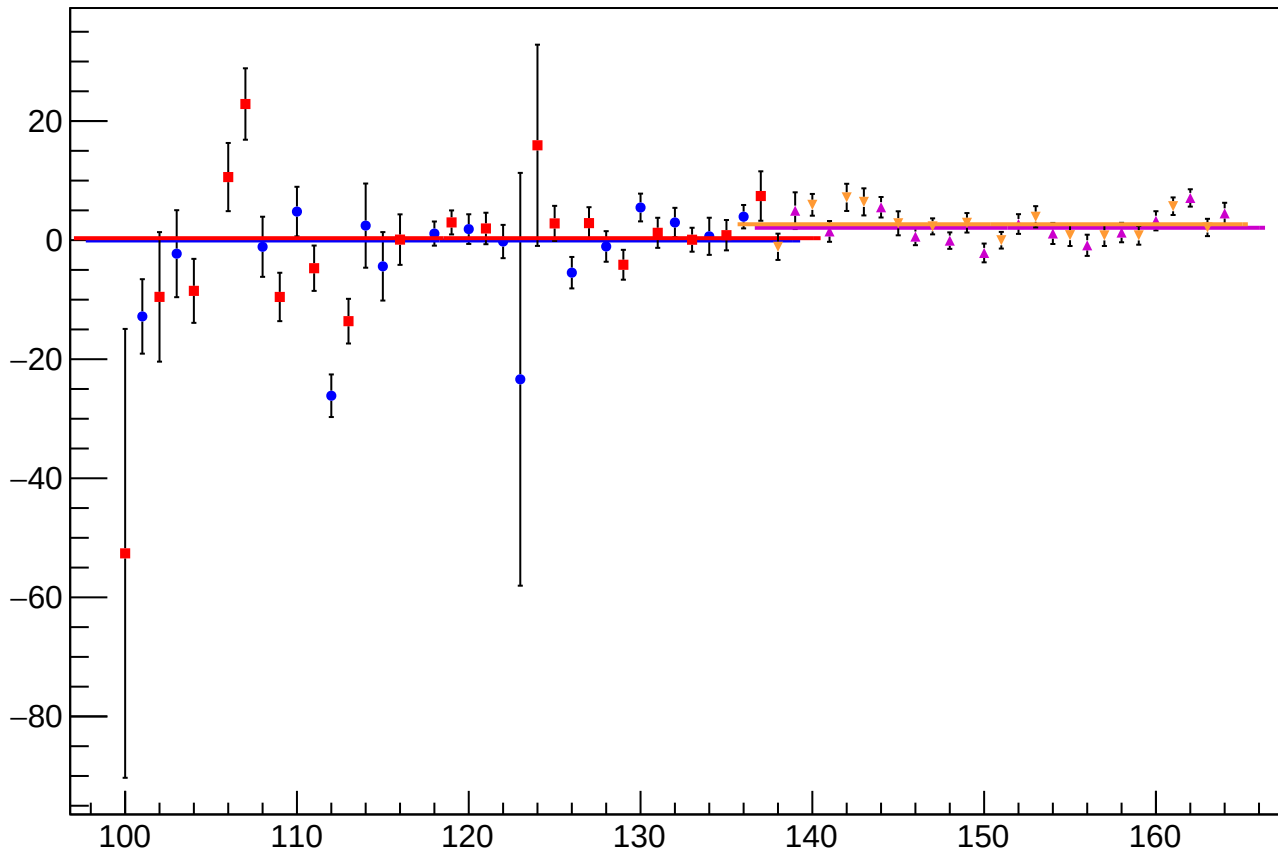
Right: 21.501+/-0.877  $\chi^2$ /NDF: 2345.0/35

In: 33.436+/-0.496  $\chi^2$ /NDF:1211.1/29

Out: 30.714+/-0.501  $\chi^2$ /NDF:2599.3/32

All: 32.088+/-0.353  $\chi^2$ /NDF: 3825.4/62

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:  $2.666 \pm 0.455$   $\chi^2/\text{NDF}$ : 24.9/13

Right Out:  $0.326 \pm 0.749$   $\chi^2/\text{NDF}$ : 55.1/18

Left In:  $2.076 \pm 0.460$   $\chi^2/\text{NDF}$ : 33.3/12

Left:  $2.375 \pm 0.323$   $\chi^2/\text{NDF}$ : 59.0/26

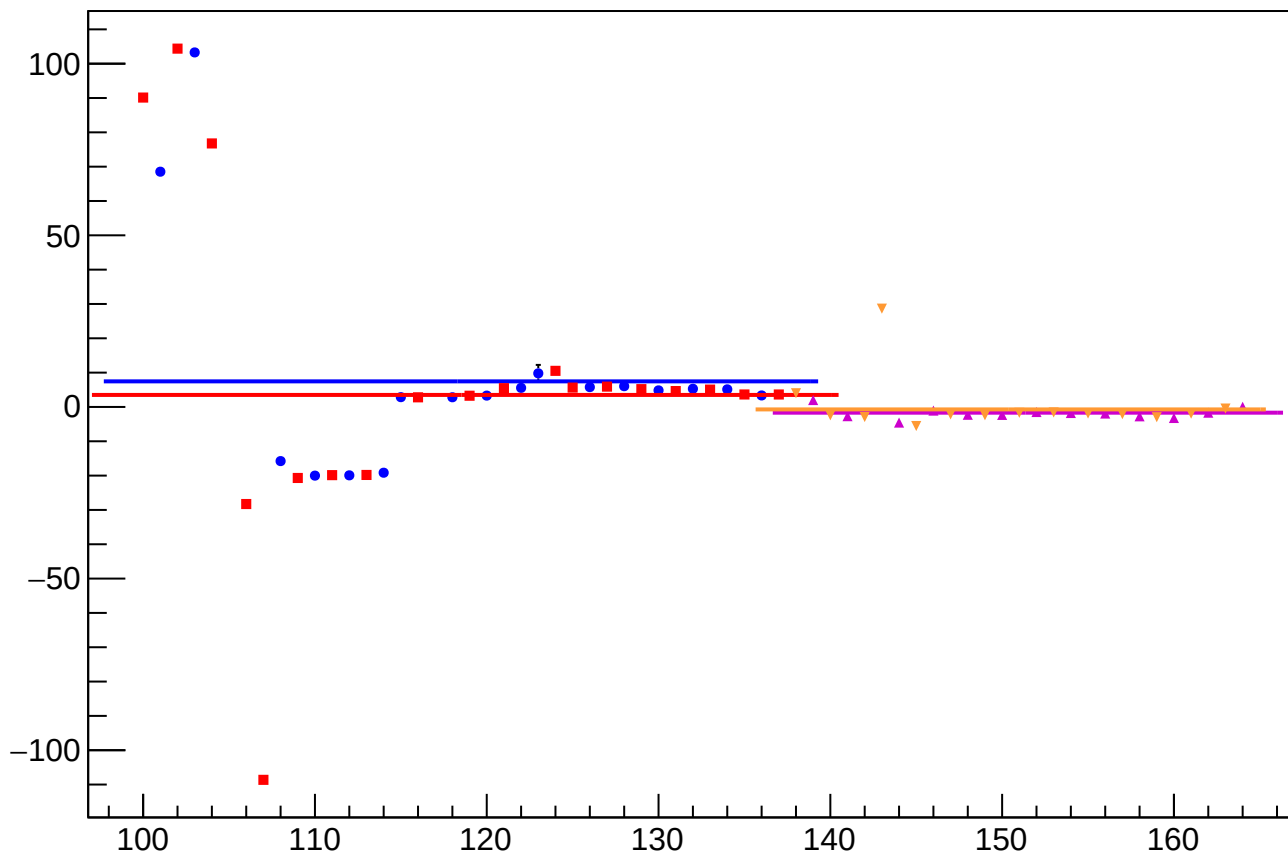
Right:  $0.132 \pm 0.528$   $\chi^2/\text{NDF}$ : 131.8/35

In:  $1.485 \pm 0.391$   $\chi^2/\text{NDF}$ : 115.8/29

Out:  $2.037 \pm 0.389$   $\chi^2/\text{NDF}$ : 87.2/32

All:  $1.763 \pm 0.276$   $\chi^2/\text{NDF}$ : 203.9/62

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: -0.718+/-0.021  $\chi^2/\text{NDF}$ : 73458.8/13

Right Out: 3.502+/-0.046  $\chi^2/\text{NDF}$ : 510579.7/18

Left In: -1.669+/-0.021  $\chi^2/\text{NDF}$ : 5274.4/12

Left: -1.198+/-0.015  $\chi^2/\text{NDF}$ : 79734.6/26

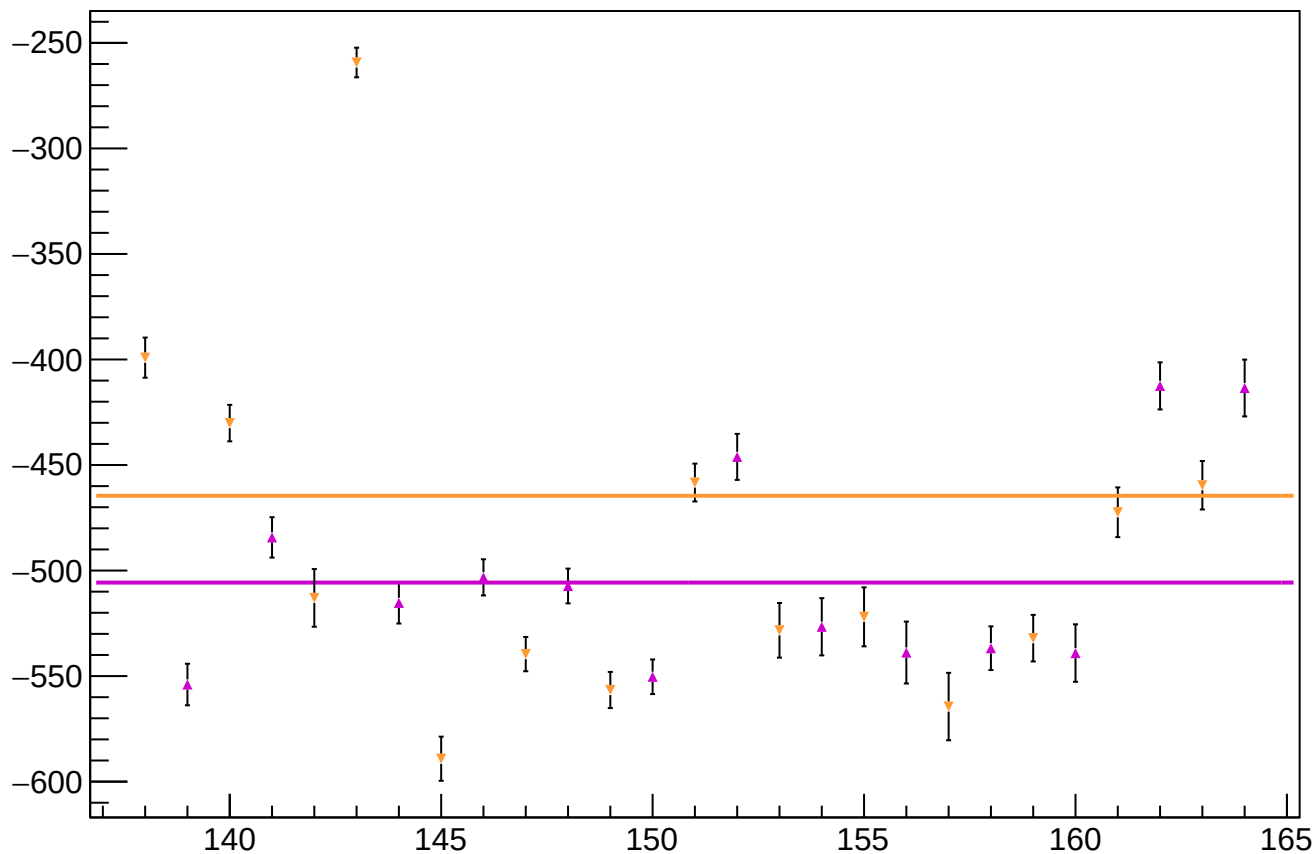
Right: 5.528+/-0.032  $\chi^2/\text{NDF}$ : 870492.1/35

In: 0.018+/-0.019  $\chi^2/\text{NDF}$ : 395707.1/29

Out: 0.043+/-0.019  $\chi^2/\text{NDF}$ : 591075.9/32

All: 0.030+/-0.014  $\chi^2/\text{NDF}$ : 986783.8/62

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -464.563 $\pm$ 2.687  $\chi^2/\text{NDF}$ :1392.8/13

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

Left In: -505.693 $\pm$ 2.867  $\chi^2/\text{NDF}$ :228.8/12

Left: -483.794 $\pm$ 1.960  $\chi^2/\text{NDF}$ : 1731.3/26

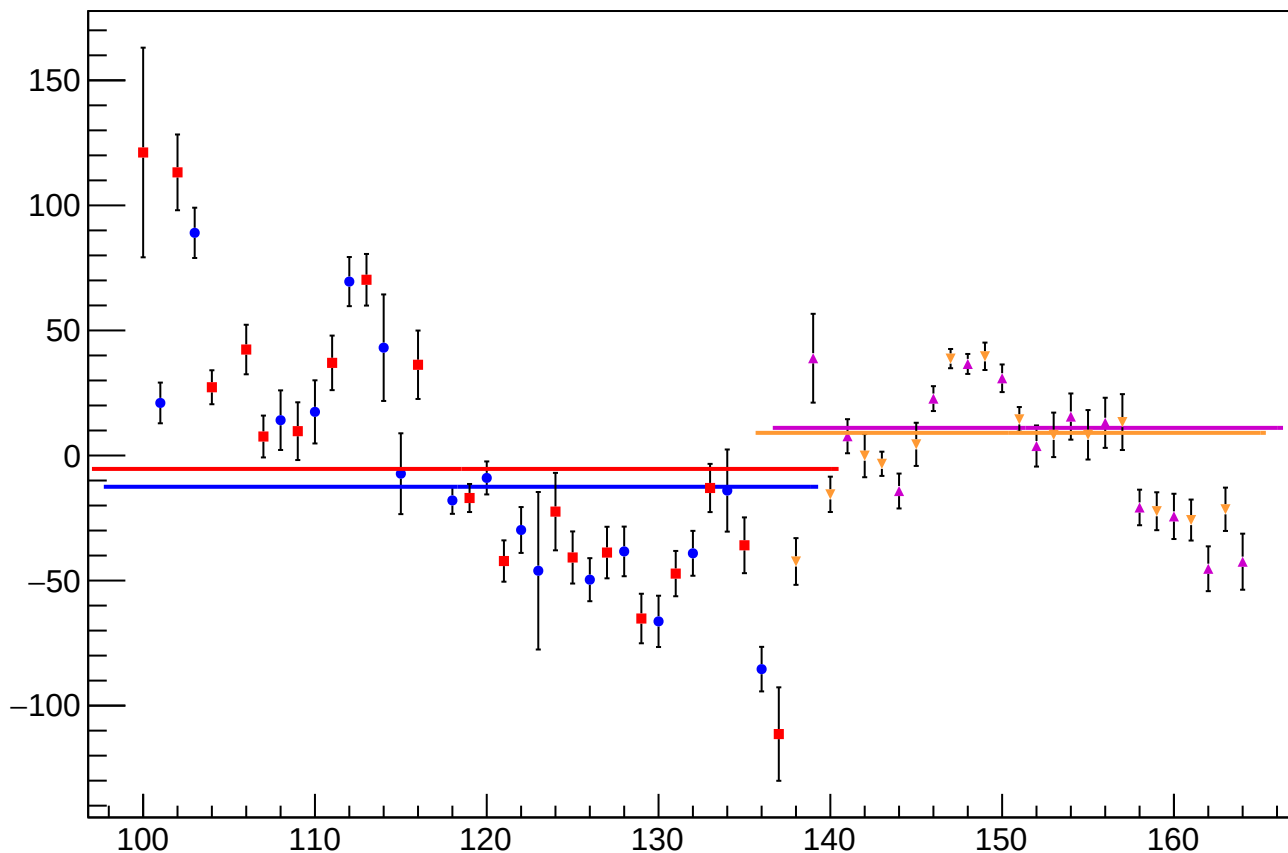
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -505.693 $\pm$ 2.867  $\chi^2/\text{NDF}$ :228.8/12

Out: -464.563 $\pm$ 2.687  $\chi^2/\text{NDF}$ :1392.8/13

All: -483.794 $\pm$ 1.960  $\chi^2/\text{NDF}$ : 1731.3/26

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -12.500 $\pm$ 2.311  $\chi^2$ /NDF: 341.1/16

Left Out: 9.057 $\pm$ 1.769  $\chi^2$ /NDF:190.2/13

Right Out: -5.363 $\pm$ 2.264  $\chi^2$ /NDF: 344.6/18

Left In: 11.051 $\pm$ 1.924  $\chi^2$ /NDF:174.0/12

Left: 9.971 $\pm$ 1.302  $\chi^2$ /NDF: 364.7/26

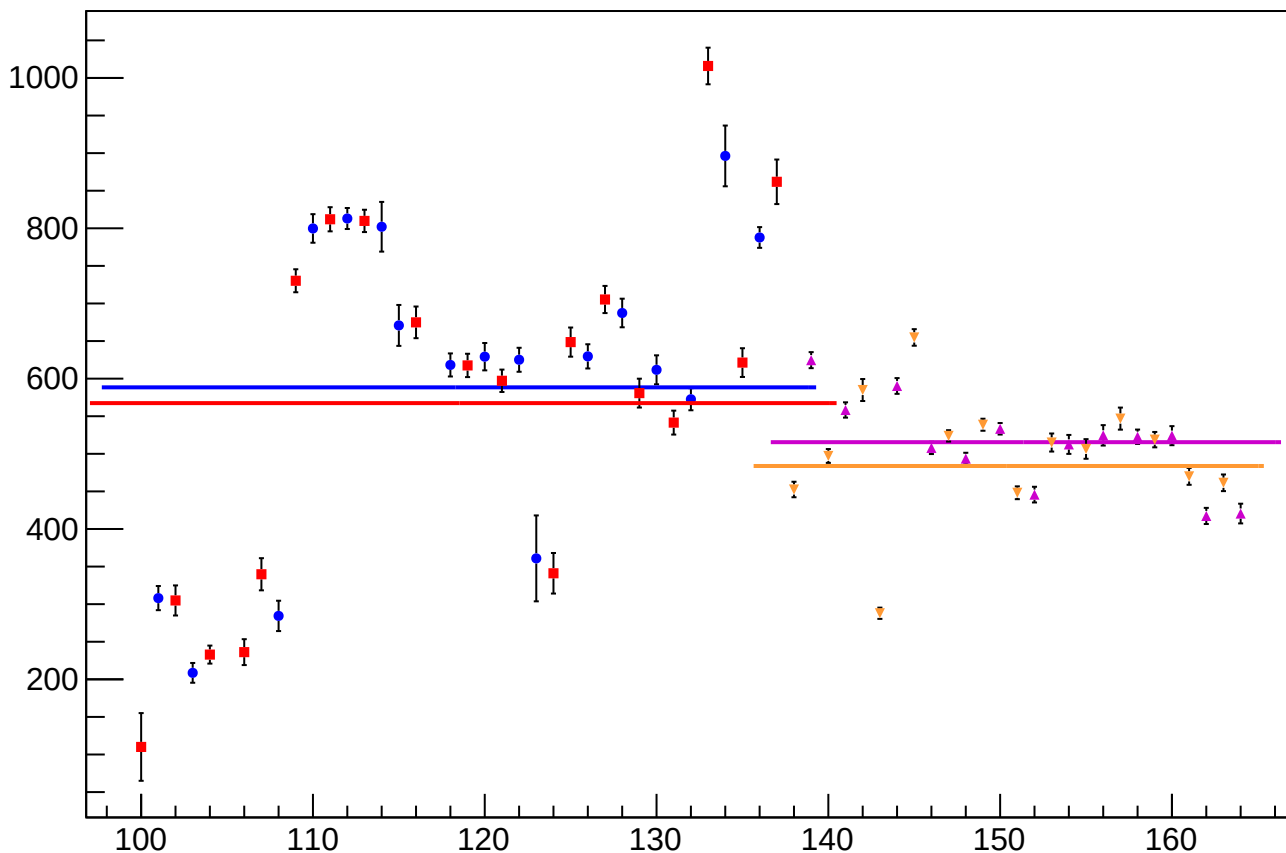
Right: -8.858 $\pm$ 1.617  $\chi^2$ /NDF: 690.5/35

In: 1.410 $\pm$ 1.479  $\chi^2$ /NDF:576.4/29

Out: 3.593 $\pm$ 1.394  $\chi^2$ /NDF:559.9/32

All: 2.566 $\pm$ 1.014  $\chi^2$ /NDF: 1137.5/62

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 588.421 $\pm$ 4.320  $\chi^2$ /NDF: 2130.2/16

Left Out: 483.803 $\pm$ 2.656  $\chi^2$ /NDF:1121.7/13

Right Out: 567.451 $\pm$ 4.137  $\chi^2$ /NDF: 2784.8/18

Left In: 515.486 $\pm$ 2.786  $\chi^2$ /NDF:369.7/12

Left: 498.884 $\pm$ 1.922  $\chi^2$ /NDF: 1559.2/26

Right: 577.481 $\pm$ 2.988  $\chi^2$ /NDF: 4927.3/35

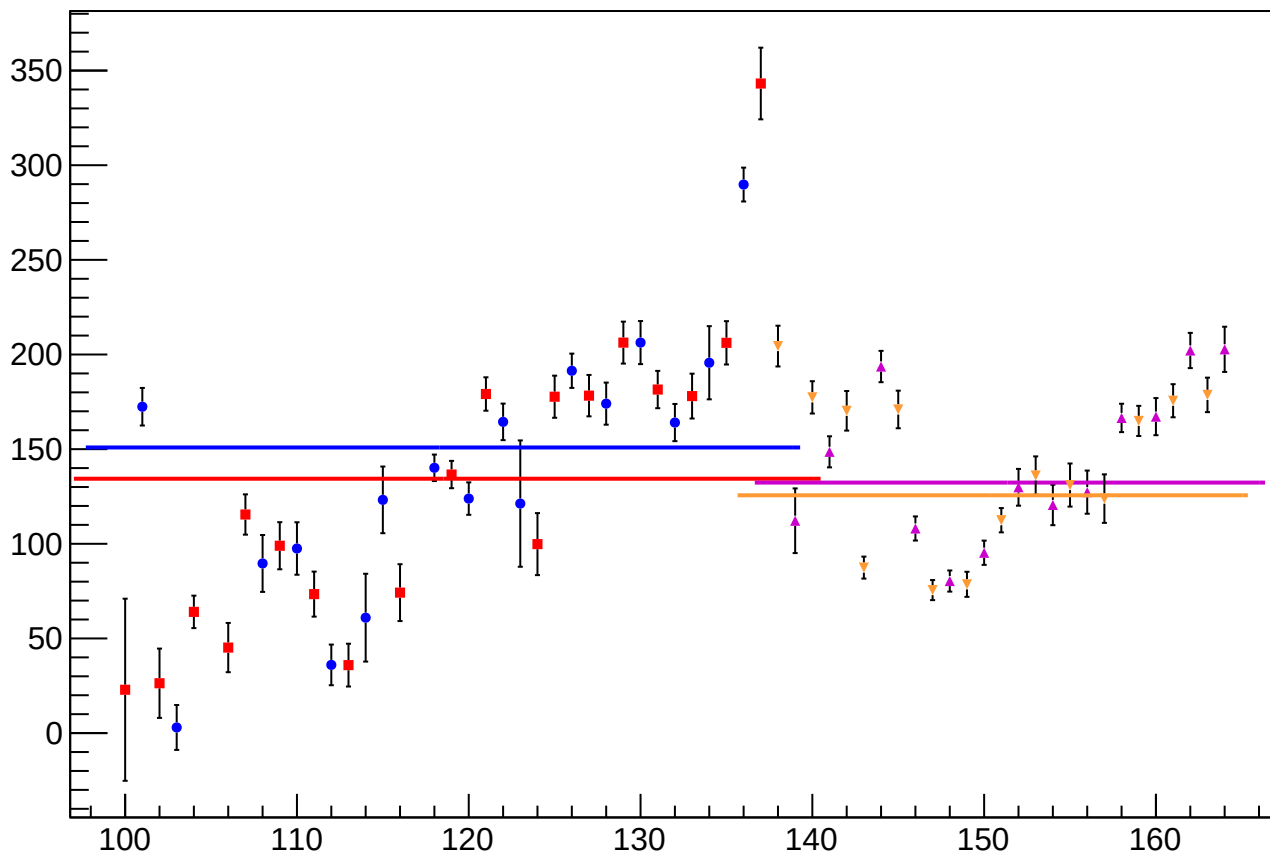
In: 536.910 $\pm$ 2.342  $\chi^2$ /NDF:2701.2/29

Out: 508.214 $\pm$ 2.235  $\chi^2$ /NDF:4196.1/32

All: 521.893 $\pm$ 1.617  $\chi^2$ /NDF: 6975.9/62



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: 125.622 $\pm$ 2.140  $\chi^2$ /NDF:408.6/13

Right Out: 134.381 $\pm$ 2.620  $\chi^2$ /NDF: 584.9/18

Left In: 132.338 $\pm$ 2.308  $\chi^2$ /NDF:320.7/12

Left: 128.726 $\pm$ 1.569  $\chi^2$ /NDF: 733.8/26

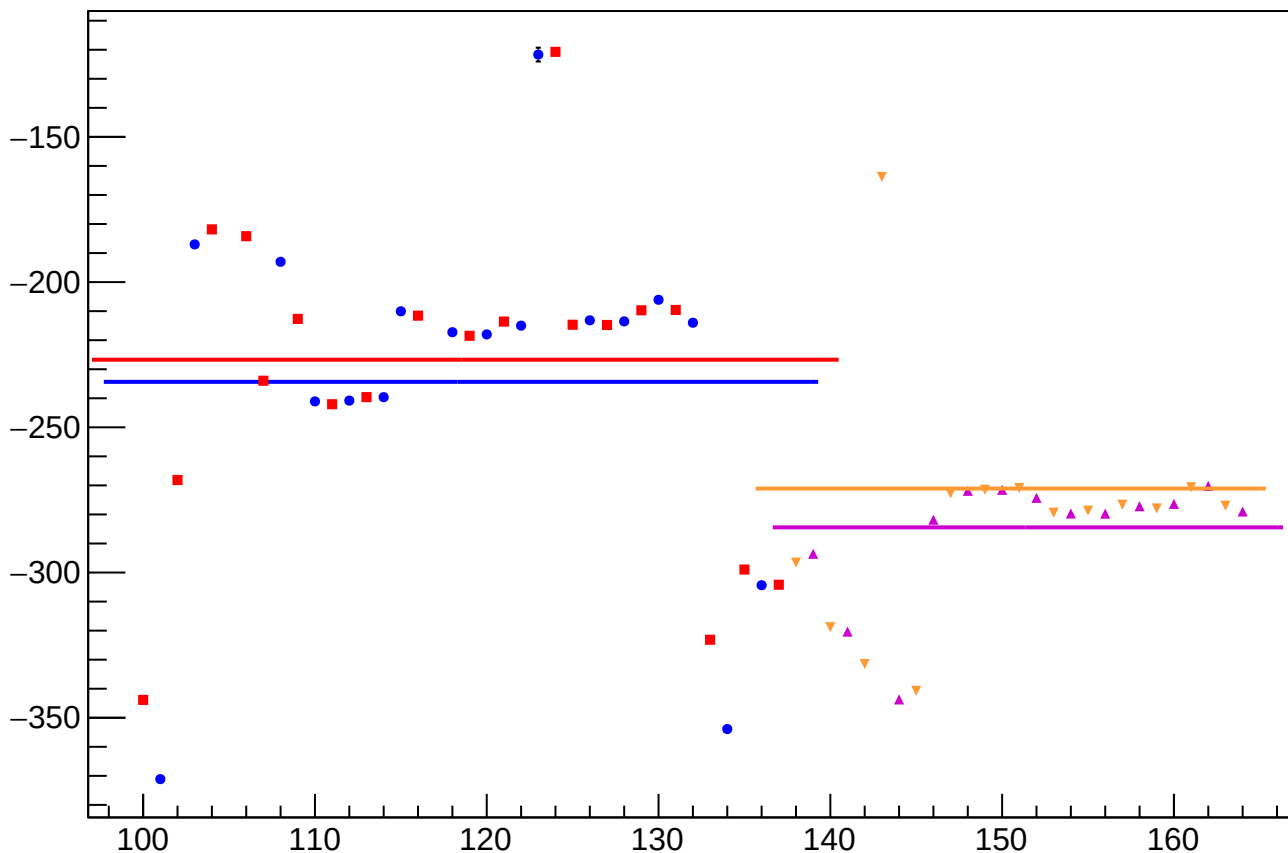
Right: 142.467 $\pm$ 1.871  $\chi^2$ /NDF: 1239.2/35

In: 140.260 $\pm$ 1.747  $\chi^2$ /NDF:983.1/29

Out: 129.127 $\pm$ 1.657  $\chi^2$ /NDF:1000.2/32

All: 134.399 $\pm$ 1.202  $\chi^2$ /NDF: 2004.6/62

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -234.341+/-0.148  $\chi^2/\text{NDF}$ : 145165.1/16

Left Out: -271.076+/-0.107  $\chi^2/\text{NDF}$ : 182864.5/13

Right Out: -226.716+/-0.141  $\chi^2/\text{NDF}$ : 99440.4/18

Left In: -284.441+/-0.111  $\chi^2/\text{NDF}$ : 30765.3/12

Left: -277.499+/-0.077  $\chi^2/\text{NDF}$ : 221142.2/26

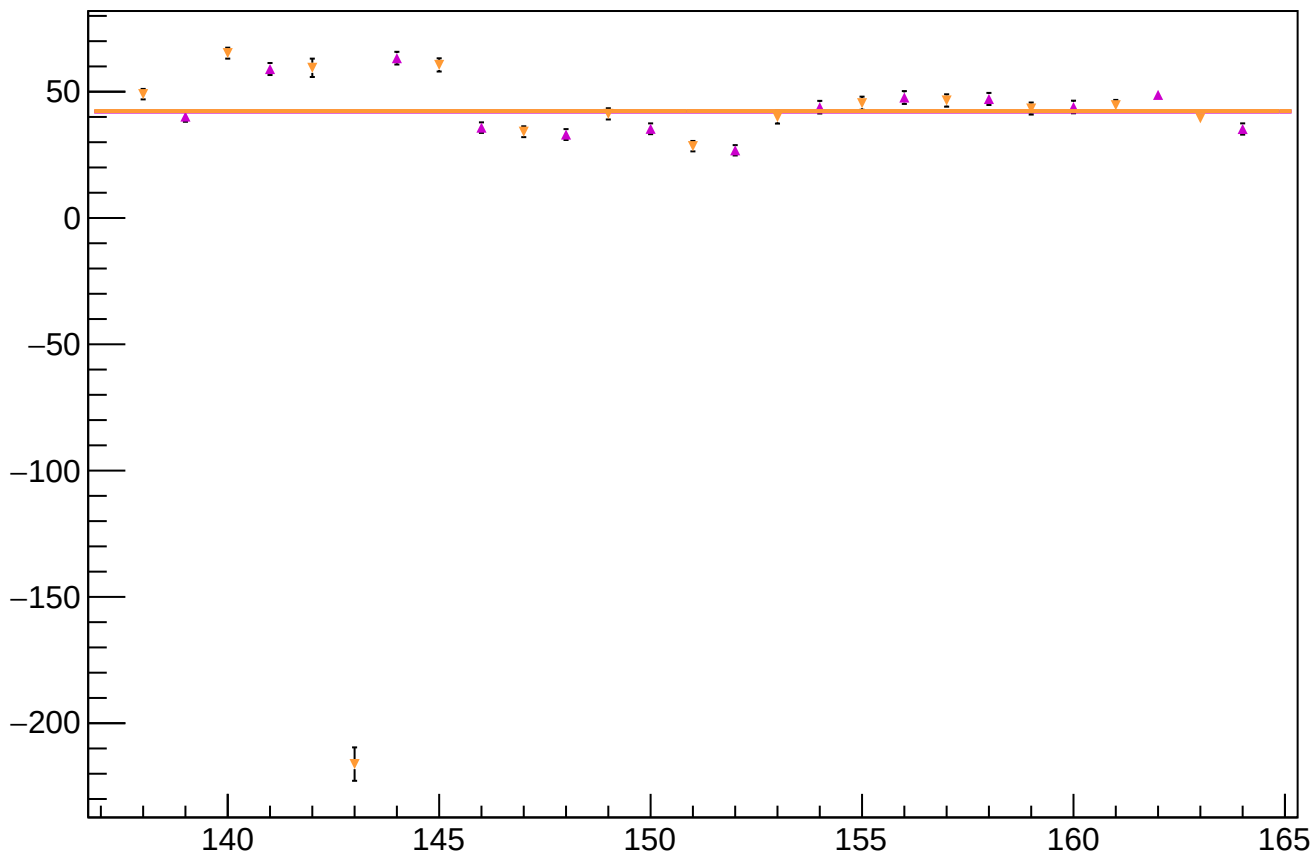
Right: -230.345+/-0.102  $\chi^2/\text{NDF}$ : 245990.9/35

In: -266.424+/-0.089  $\chi^2/\text{NDF}$ : 249009.2/29

Out: -254.933+/-0.085  $\chi^2/\text{NDF}$ : 344973.4/32

All: -260.435+/-0.062  $\chi^2/\text{NDF}$ : 602681.8/62

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: 42.336+/-0.637  $\chi^2/\text{NDF}$ :1790.0/13

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

Left In: 42.126+/-0.620  $\chi^2/\text{NDF}$ :246.9/12

Left: 42.228+/-0.444  $\chi^2/\text{NDF}$ : 2036.9/26

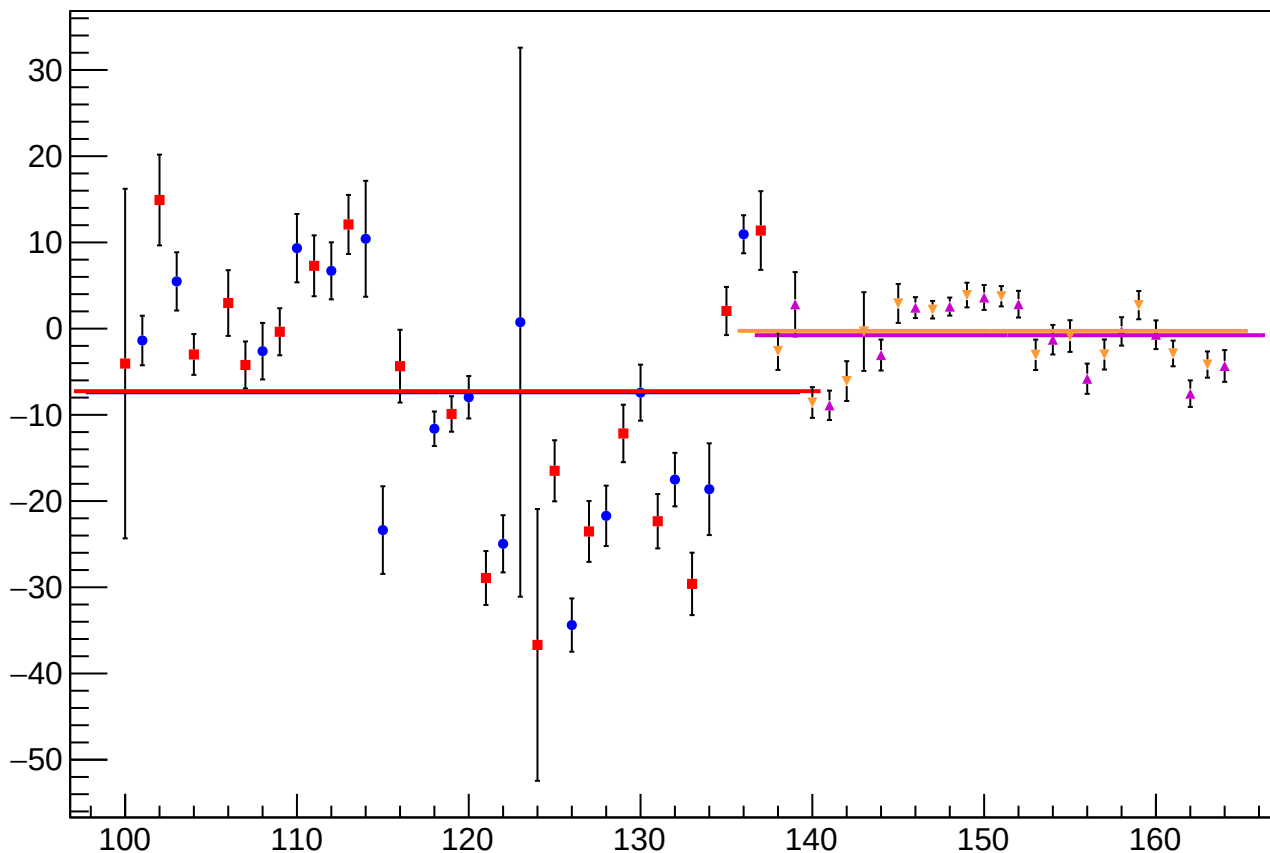
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.126+/-0.620  $\chi^2/\text{NDF}$ :246.9/12

Out: 42.336+/-0.637  $\chi^2/\text{NDF}$ :1790.0/13

All: 42.228+/-0.444  $\chi^2/\text{NDF}$ : 2036.9/26

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:  $-0.260 \pm 0.433$   $\chi^2/\text{NDF}$ : 75.1/13

Right Out:  $-7.256 \pm 0.762$   $\chi^2/\text{NDF}$ : 257.3/18

Left In:  $-0.763 \pm 0.433$   $\chi^2/\text{NDF}$ : 88.5/12

Left:  $-0.511 \pm 0.306$   $\chi^2/\text{NDF}$ : 164.3/26

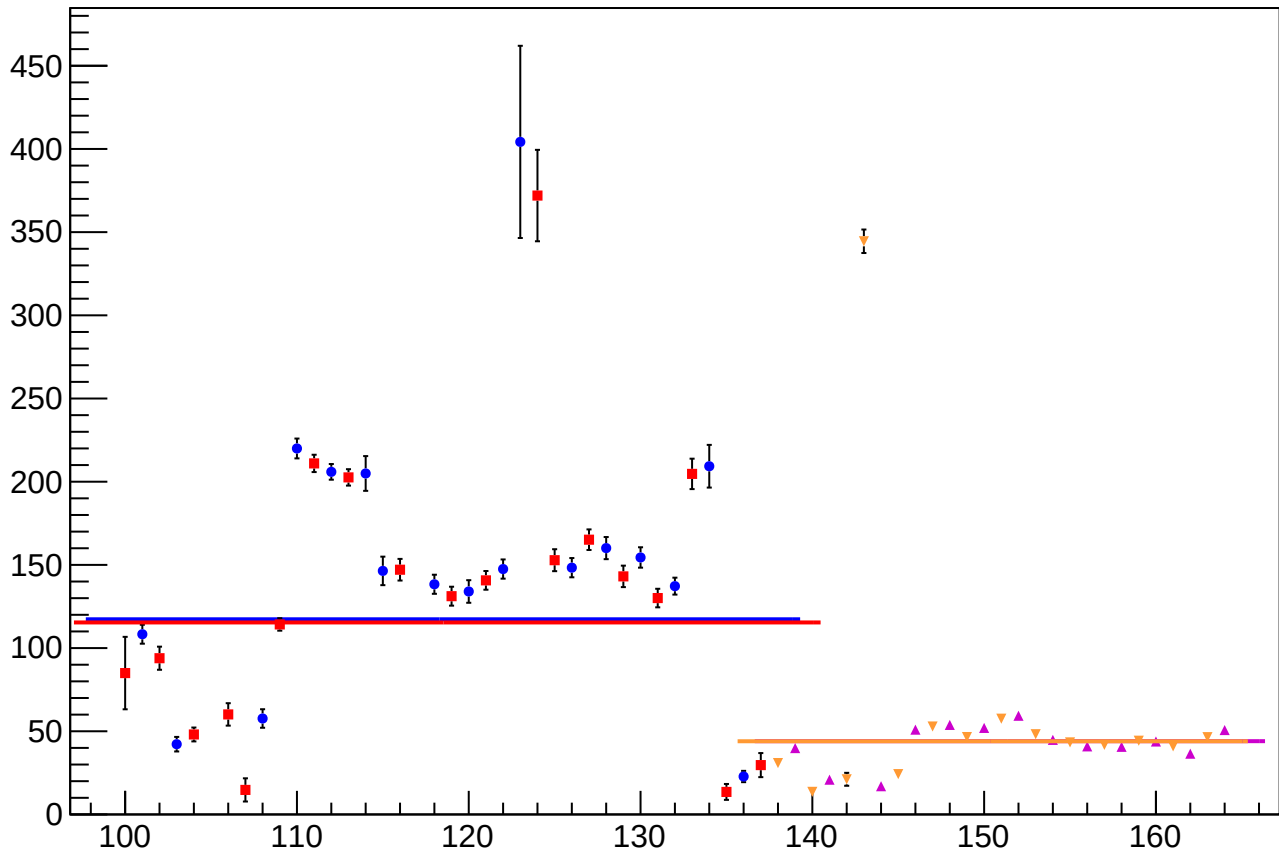
Right:  $-7.317 \pm 0.545$   $\chi^2/\text{NDF}$ : 540.9/35

In:  $-2.329 \pm 0.379$   $\chi^2/\text{NDF}$ : 427.2/29

Out:  $-1.970 \pm 0.377$   $\chi^2/\text{NDF}$ : 396.1/32

All:  $-2.148 \pm 0.267$   $\chi^2/\text{NDF}$ : 823.8/62

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: 43.995 $\pm$ 0.619  $\chi^2$ /NDF:2183.7/13

Right Out: 115.405 $\pm$ 1.361  $\chi^2$ /NDF: 2150.5/18

Left In: 44.045 $\pm$ 0.601  $\chi^2$ /NDF:331.2/12

Left: 44.021 $\pm$ 0.431  $\chi^2$ /NDF: 2515.0/26

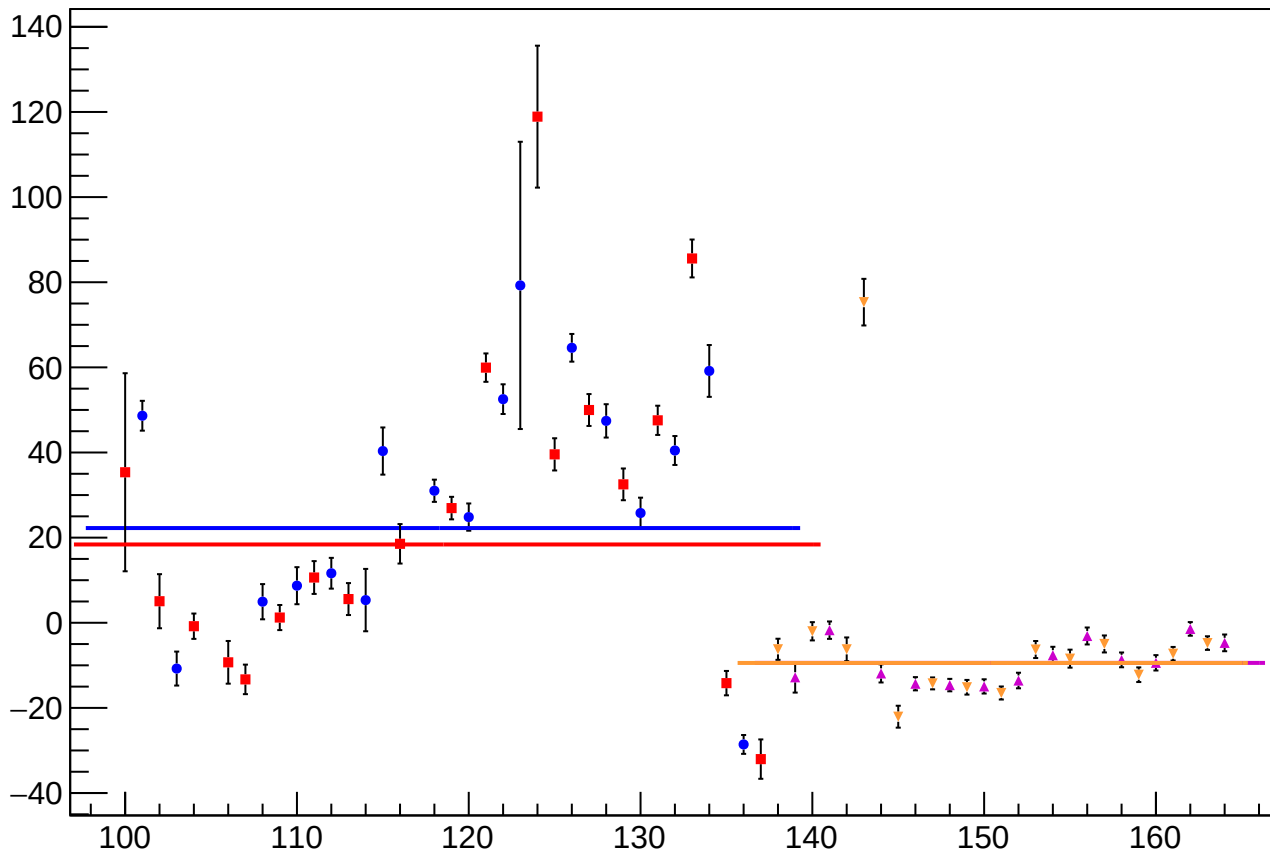
Right: 116.321 $\pm$ 0.979  $\chi^2$ /NDF: 4312.7/35

In: 55.340 $\pm$ 0.553  $\chi^2$ /NDF:4780.3/29

Out: 56.252 $\pm$ 0.564  $\chi^2$ /NDF:6616.0/32

All: 55.787 $\pm$ 0.395  $\chi^2$ /NDF: 11397.6/62

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 22.250 $\pm$ 0.889  $\chi^2$ /NDF: 1071.4/16

Left Out: -9.440 $\pm$ 0.512  $\chi^2$ /NDF:343.3/13

Right Out: 18.395 $\pm$ 0.872  $\chi^2$ /NDF: 1077.1/18

Left In: -9.429 $\pm$ 0.509  $\chi^2$ /NDF:96.7/12

Left: -9.434 $\pm$ 0.361  $\chi^2$ /NDF: 439.9/26

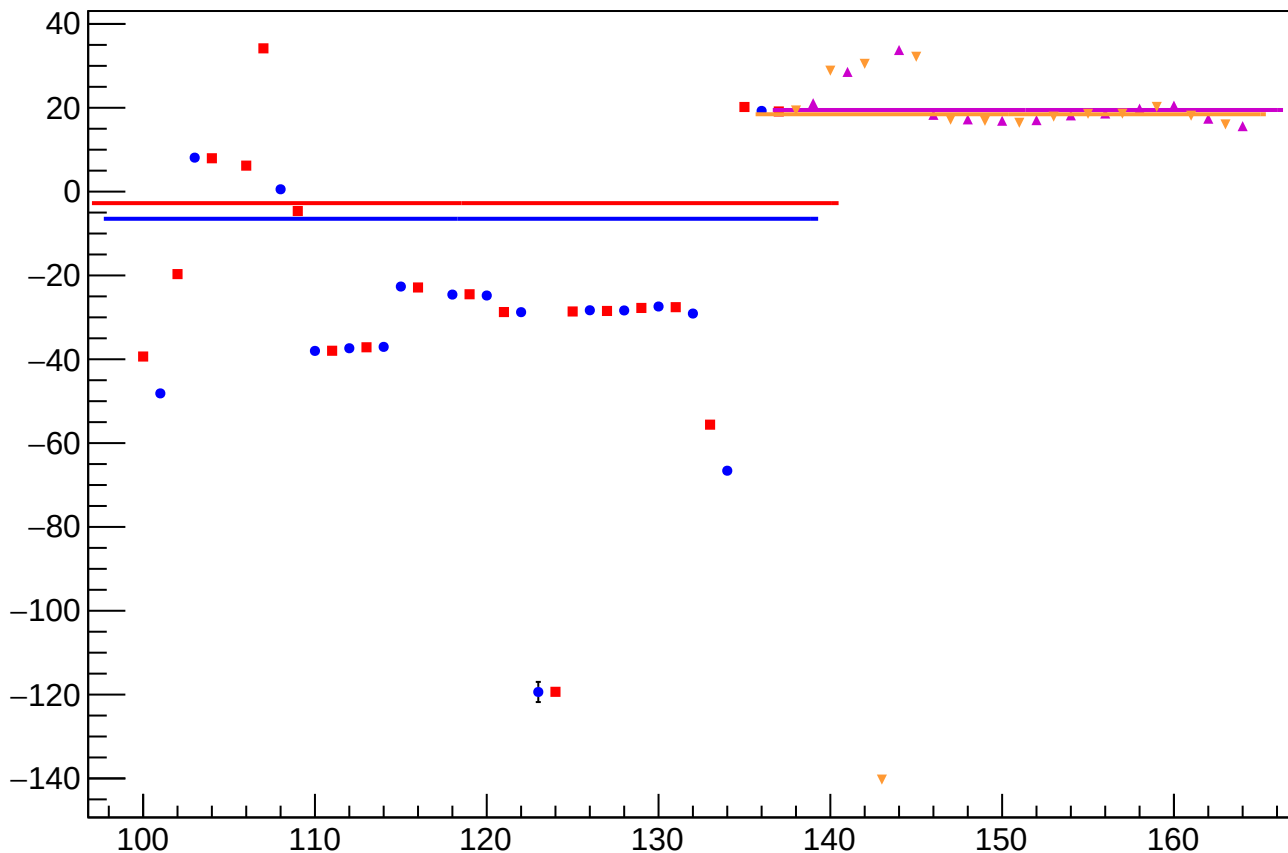
Right: 20.284 $\pm$ 0.622  $\chi^2$ /NDF: 2158.2/35

In: -1.620 $\pm$ 0.441  $\chi^2$ /NDF:2124.6/29

Out: -2.297 $\pm$ 0.442  $\chi^2$ /NDF:2178.1/32

All: -1.958 $\pm$ 0.312  $\chi^2$ /NDF: 4303.9/62

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -6.482 $\pm$ 0.046  $\chi^2$ /NDF: 265804.1/16

Left Out: 18.455 $\pm$ 0.024  $\chi^2$ /NDF:350105.5/13

Right Out: -2.751 $\pm$ 0.046  $\chi^2$ /NDF: 266291.4/18

Left In: 19.473 $\pm$ 0.024  $\chi^2$ /NDF:28989.2/12

Left: 18.979 $\pm$ 0.017  $\chi^2$ /NDF: 380003.5/26

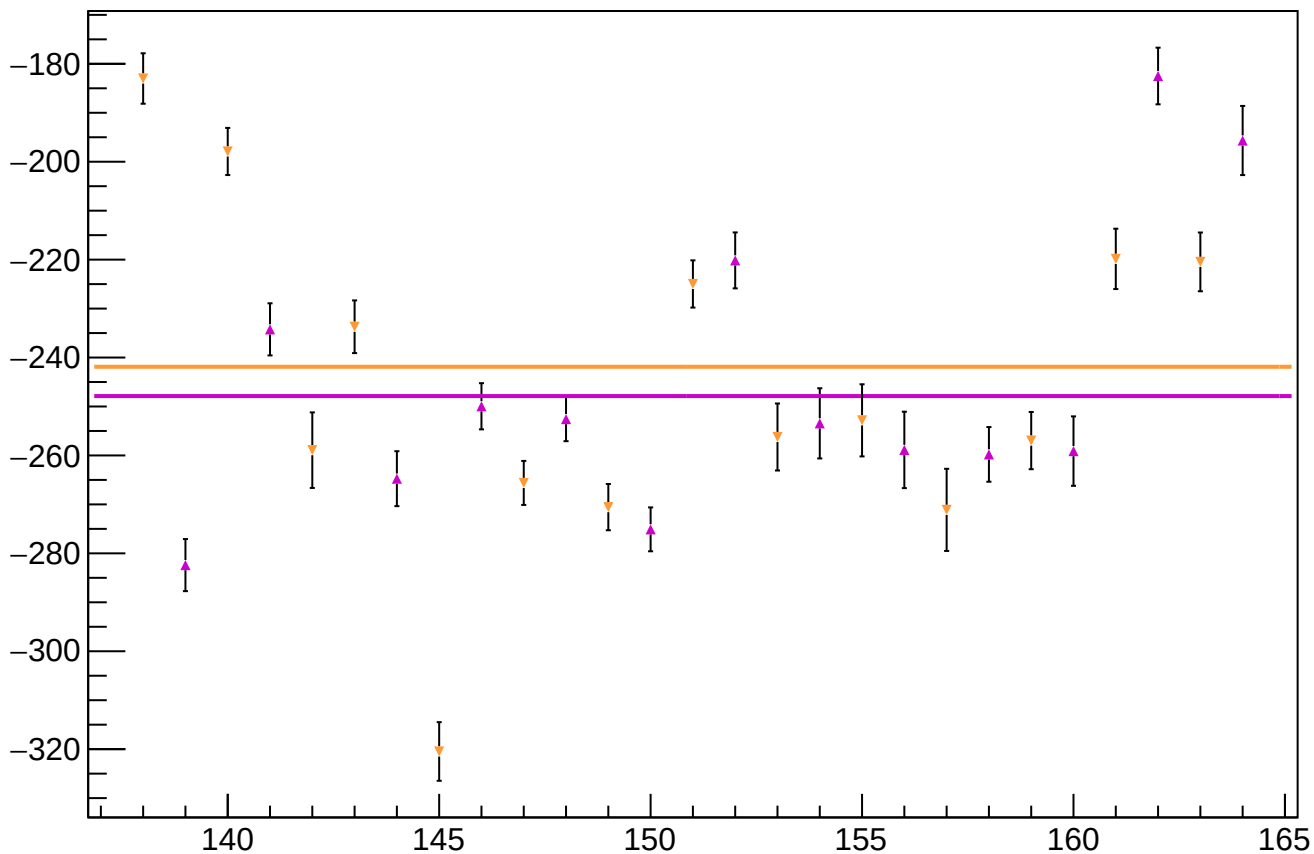
Right: -4.597 $\pm$ 0.032  $\chi^2$ /NDF: 535394.7/35

In: 14.117 $\pm$ 0.021  $\chi^2$ /NDF:545686.8/29

Out: 13.805 $\pm$ 0.021  $\chi^2$ /NDF:784660.1/32

All: 13.964 $\pm$ 0.015  $\chi^2$ /NDF: 1330455.3/62

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: -241.885+/-1.517  $\chi^2/\text{NDF}$ : 521.2/13

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

Left In: -247.873+/-1.553  $\chi^2/\text{NDF}$ : 311.4/12

Left: -244.808+/-1.085  $\chi^2/\text{NDF}$ : 840.2/26

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

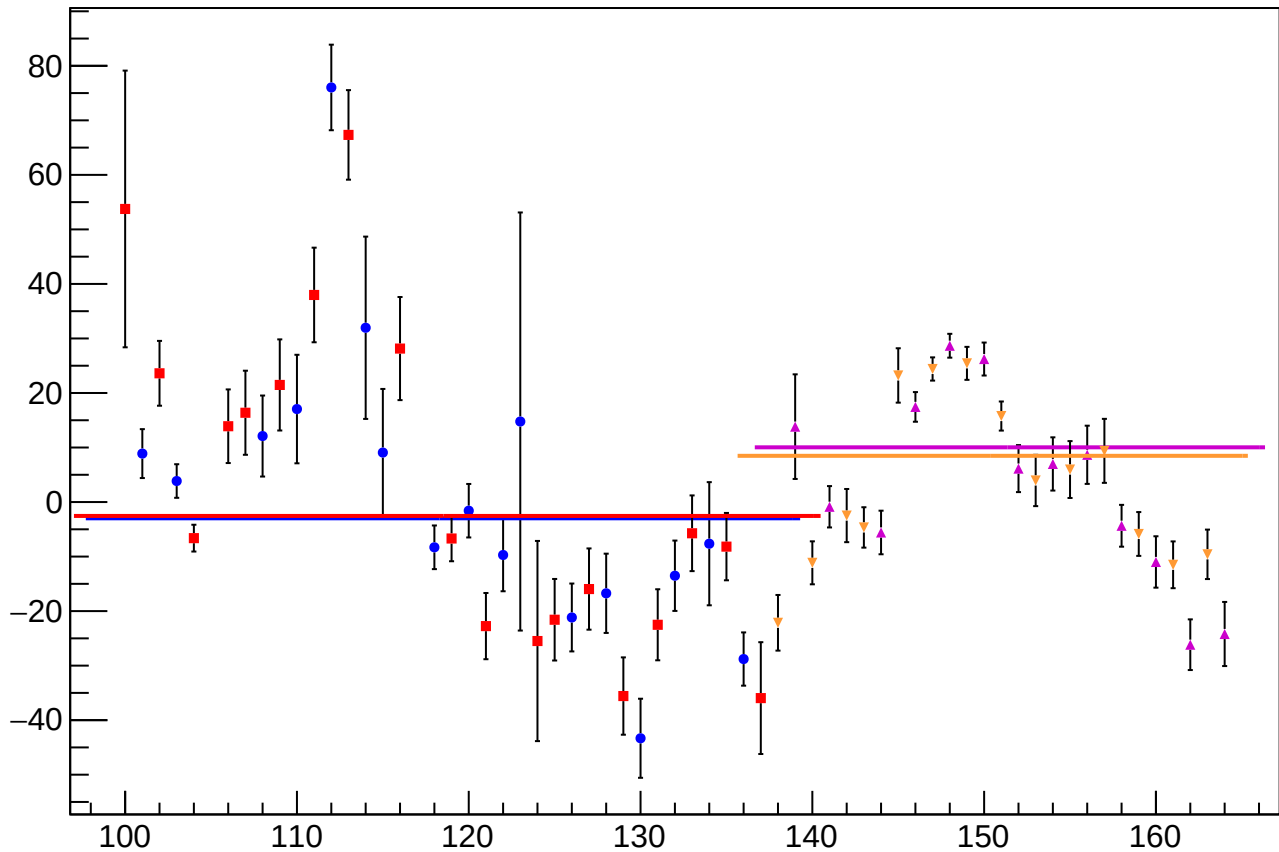
In: -247.873+/-1.553  $\chi^2/\text{NDF}$ : 311.4/12

Out: -241.885+/-1.517  $\chi^2/\text{NDF}$ : 521.2/13

All: -244.808+/-1.085  $\chi^2/\text{NDF}$ : 840.2/26



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:  $8.478 \pm 0.998$   $\chi^2/\text{NDF}$ : 233.4/13

Right Out:  $-2.548 \pm 1.399$   $\chi^2/\text{NDF}$ : 218.1/18

Left In:  $10.034 \pm 1.045$   $\chi^2/\text{NDF}$ : 262.3/12

Left:  $9.220 \pm 0.722$   $\chi^2/\text{NDF}$ : 496.9/26

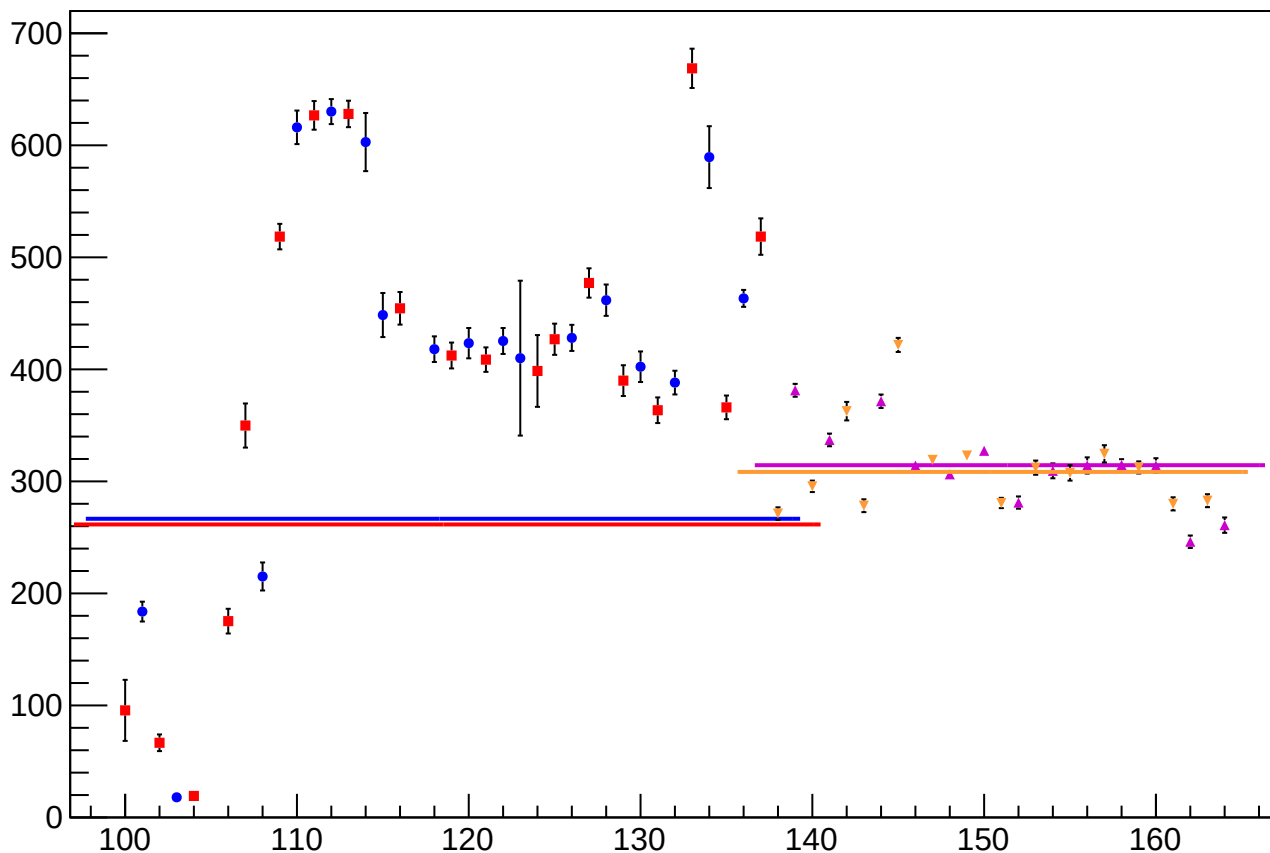
Right:  $-2.757 \pm 1.007$   $\chi^2/\text{NDF}$ : 422.1/35

In:  $5.588 \pm 0.848$   $\chi^2/\text{NDF}$ : 519.2/29

Out:  $4.758 \pm 0.812$   $\chi^2/\text{NDF}$ : 492.7/32

All:  $5.155 \pm 0.587$   $\chi^2/\text{NDF}$ : 1012.4/62

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: 308.452 $\pm$ 1.489  $\chi^2$ /NDF:548.2/13

Right Out: 261.551 $\pm$ 2.458  $\chi^2$ /NDF: 8208.2/18

Left In: 314.446 $\pm$ 1.507  $\chi^2$ /NDF:502.9/12

Left: 311.412 $\pm$ 1.059  $\chi^2$ /NDF: 1059.1/26

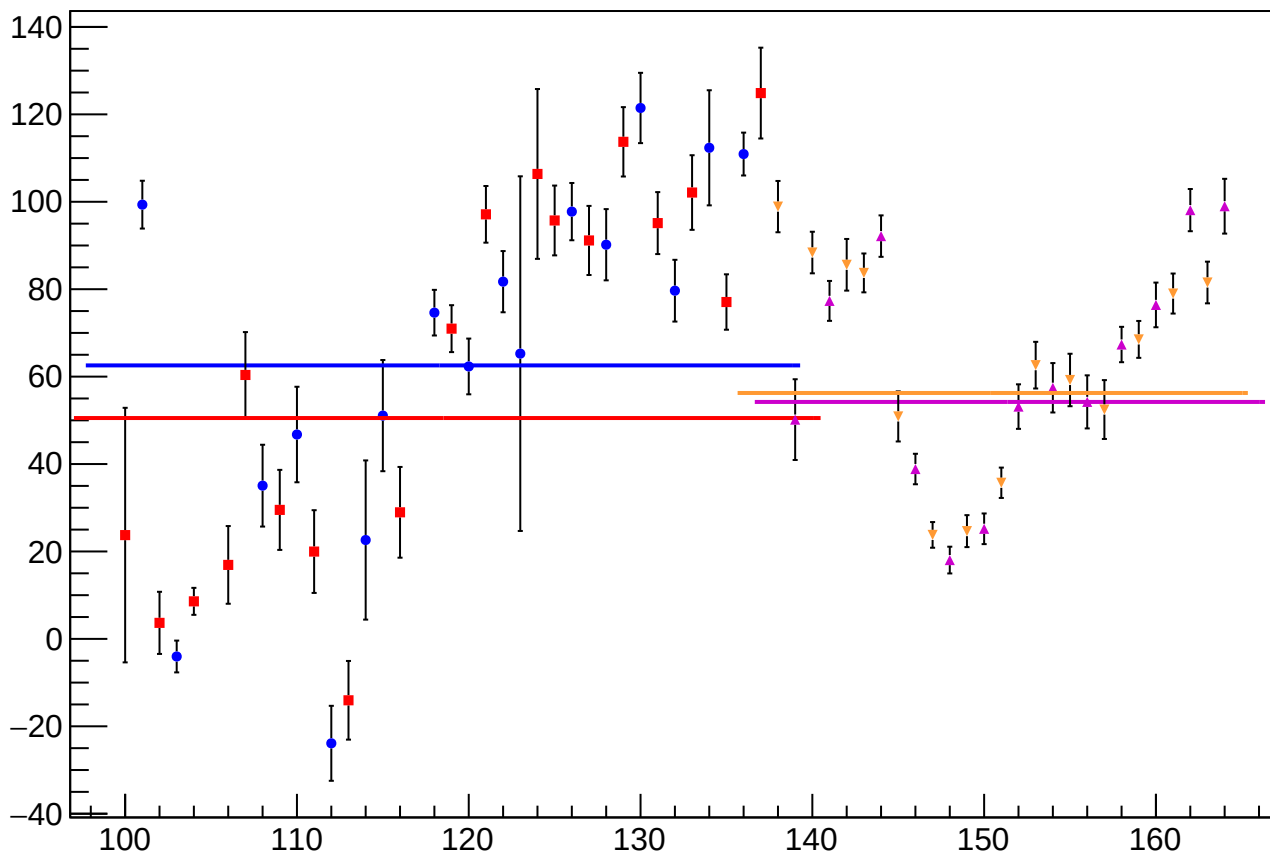
Right: 264.068 $\pm$ 1.745  $\chi^2$ /NDF: 15873.0/35

In: 301.525 $\pm$ 1.288  $\chi^2$ /NDF:8437.6/29

Out: 295.864 $\pm$ 1.273  $\chi^2$ /NDF:9022.9/32

All: 298.663 $\pm$ 0.905  $\chi^2$ /NDF: 17470.2/62

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: 56.260+/-1.205  $\chi^2/\text{NDF}$ : 457.1/13

Right Out: 50.526+/-1.643  $\chi^2/\text{NDF}$ : 657.0/18

Left In: 54.207+/-1.251  $\chi^2/\text{NDF}$ : 481.0/12

Left: 55.272+/-0.868  $\chi^2/\text{NDF}$ : 939.5/26

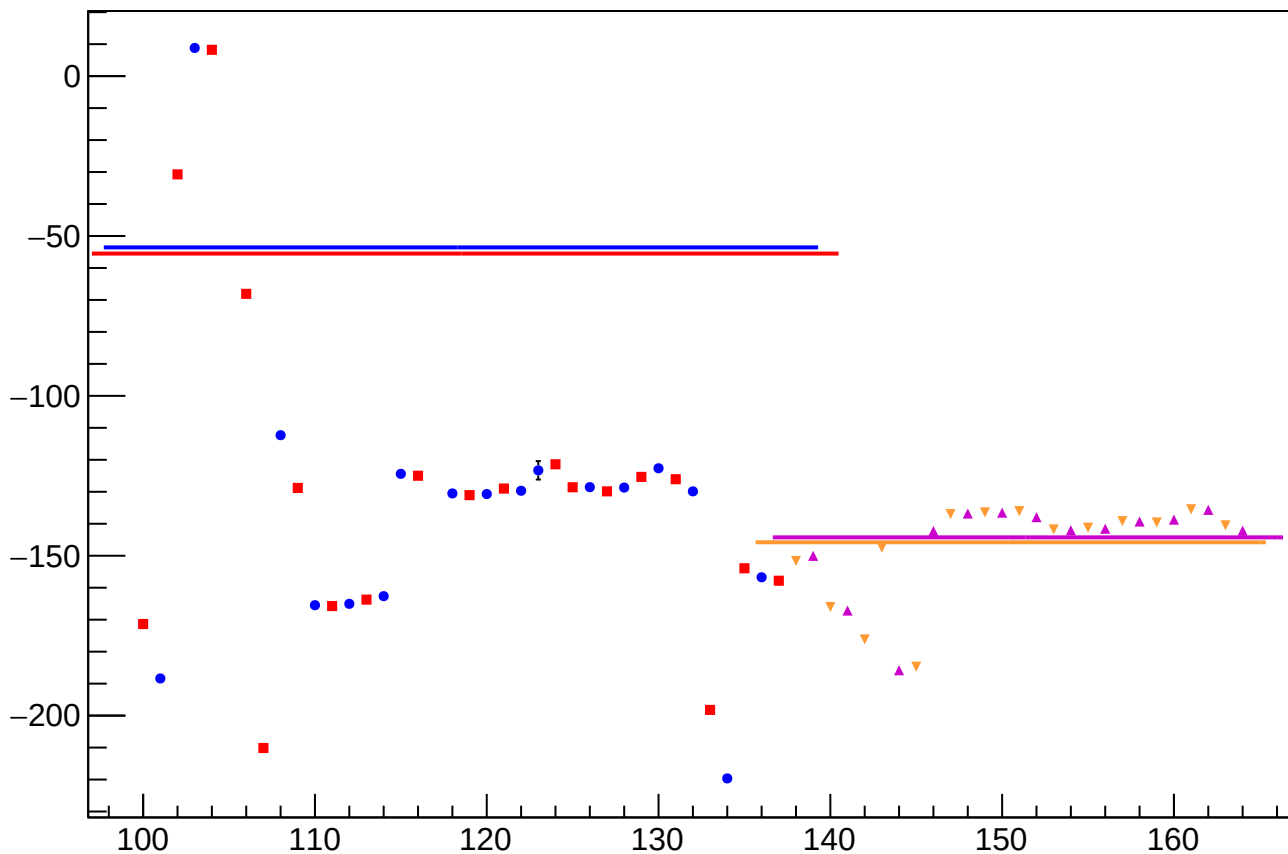
Right: 56.420+/-1.174  $\chi^2/\text{NDF}$ : 1405.7/35

In: 57.193+/-1.003  $\chi^2/\text{NDF}$ : 1219.3/29

Out: 54.256+/-0.972  $\chi^2/\text{NDF}$ : 1122.0/32

All: 55.678+/-0.698  $\chi^2/\text{NDF}$ : 2345.8/62

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -53.567 $\pm$ 0.070  $\chi^2$ /NDF: 1230233.3/16

Left Out: -145.784 $\pm$ 0.060  $\chi^2$ /NDF: 53634.4/13

Right Out: -55.502 $\pm$ 0.072  $\chi^2$ /NDF: 969632.0/18

Left In: -144.253 $\pm$ 0.060  $\chi^2$ /NDF: 43348.3/12

Left: -145.022 $\pm$ 0.042  $\chi^2$ /NDF: 97310.0/26

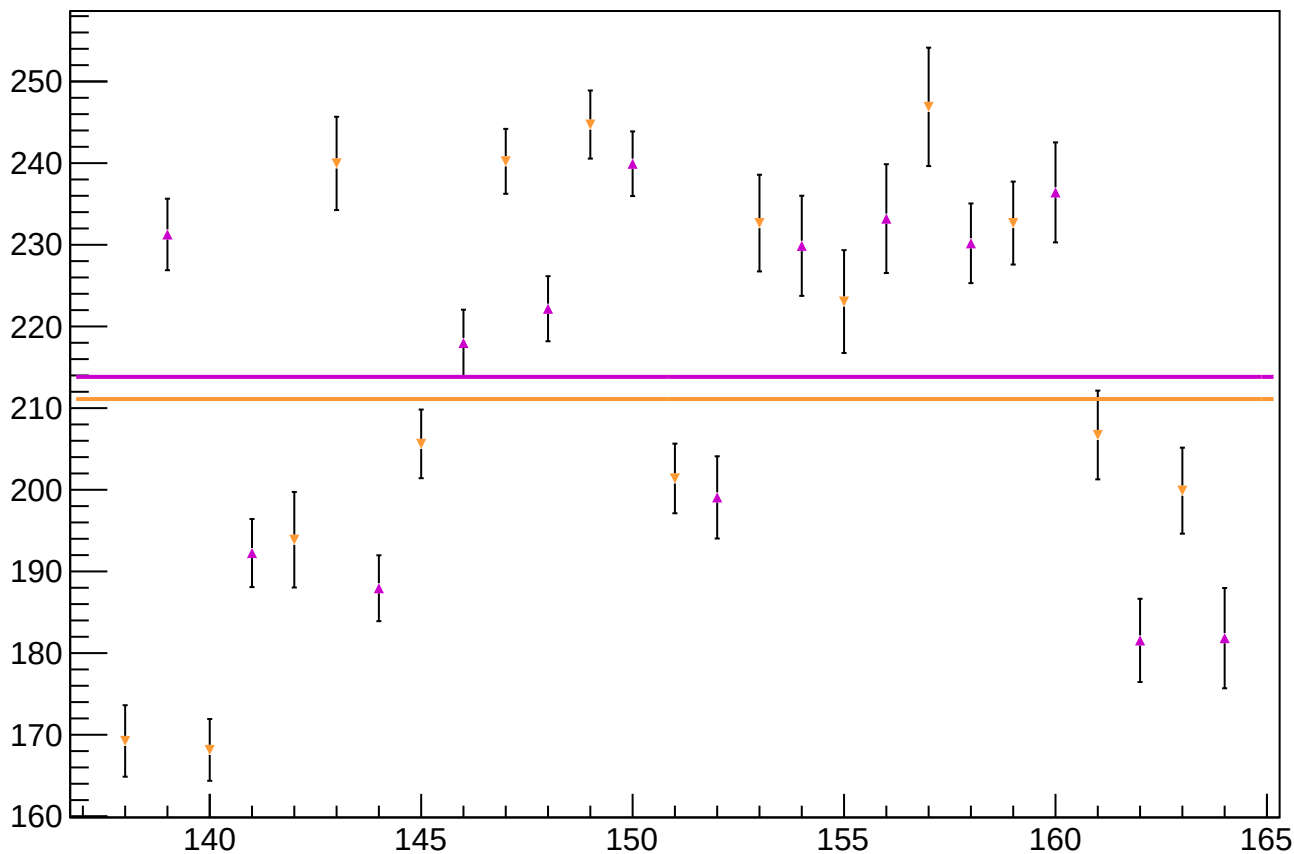
Right: -54.512 $\pm$ 0.050  $\chi^2$ /NDF: 2200235.7/35

In: -106.042 $\pm$ 0.046  $\chi^2$ /NDF: 2237204.4/29

Out: -108.932 $\pm$ 0.046  $\chi^2$ /NDF: 1956194.0/32

All: -107.477 $\pm$ 0.032  $\chi^2$ /NDF: 4195391.0/62

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: 211.111+/-1.295  $\chi^2/\text{NDF}$ :444.7/13

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

Left In: 213.828+/-1.313  $\chi^2/\text{NDF}$ :248.7/12

Left: 212.452+/-0.922  $\chi^2/\text{NDF}$ : 695.6/26

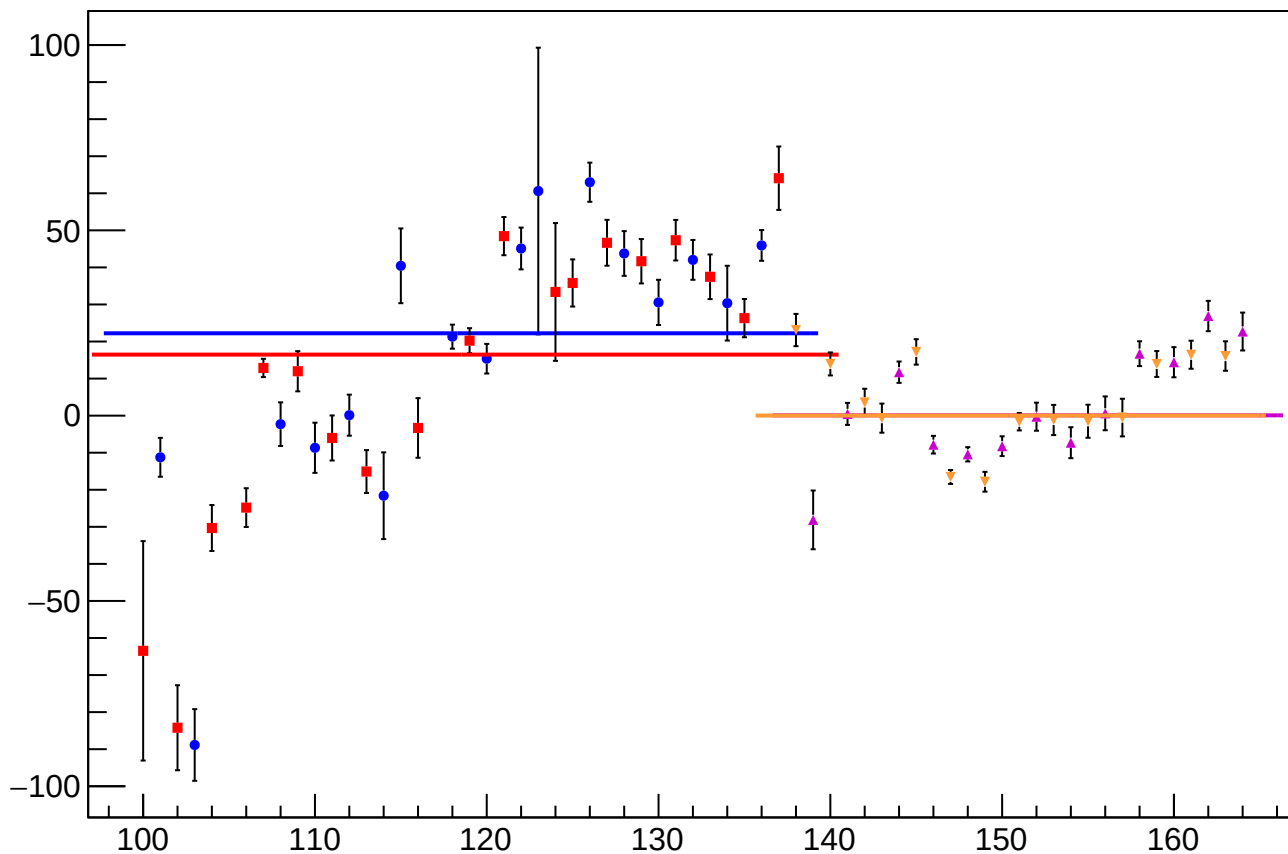
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 213.828+/-1.313  $\chi^2/\text{NDF}$ :248.7/12

Out: 211.111+/-1.295  $\chi^2/\text{NDF}$ :444.7/13

All: 212.452+/-0.922  $\chi^2/\text{NDF}$ : 695.6/26

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 22.221 $\pm$ 1.374  $\chi^2$ /NDF: 385.6/16

Left Out: 0.027 $\pm$ 0.862  $\chi^2$ /NDF: 248.1/13

Right Out: 16.466 $\pm$ 1.230  $\chi^2$ /NDF: 425.9/18

Left In: 0.083 $\pm$ 0.892  $\chi^2$ /NDF: 182.1/12

Left: 0.054 $\pm$ 0.620  $\chi^2$ /NDF: 430.3/26

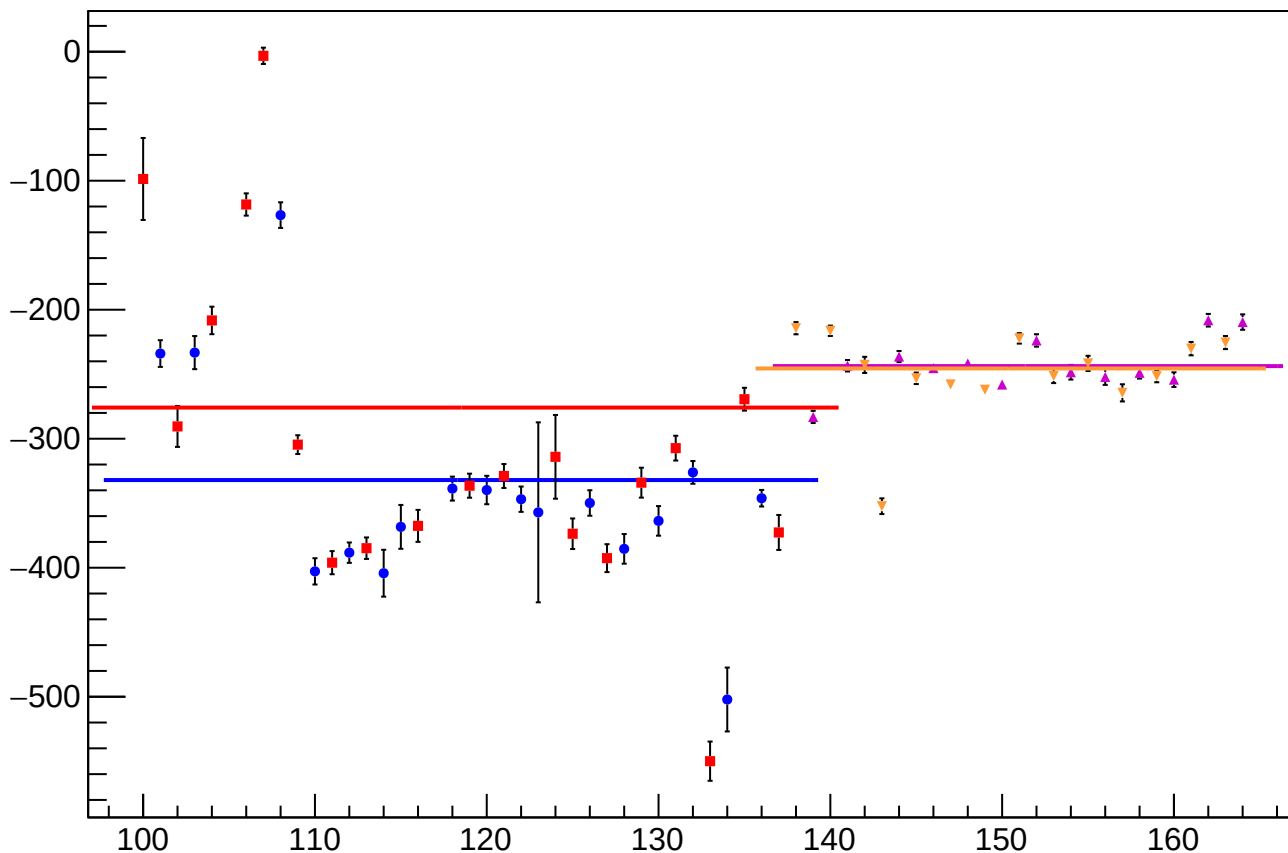
Right: 19.025 $\pm$ 0.916  $\chi^2$ /NDF: 821.2/35

In: 6.648 $\pm$ 0.748  $\chi^2$ /NDF: 750.4/29

Out: 5.442 $\pm$ 0.706  $\chi^2$ /NDF: 793.9/32

All: 6.010 $\pm$ 0.513  $\chi^2$ /NDF: 1545.7/62

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:  $-245.528 \pm 1.277$   $\chi^2/\text{NDF}: 503.5/13$

Right Out:  $-275.853 \pm 2.324$   $\chi^2/\text{NDF}: 3362.8/18$

Left In:  $-243.709 \pm 1.281$   $\chi^2/\text{NDF}: 196.9/12$

Left:  $-244.621 \pm 0.904$   $\chi^2/\text{NDF}: 701.4/26$

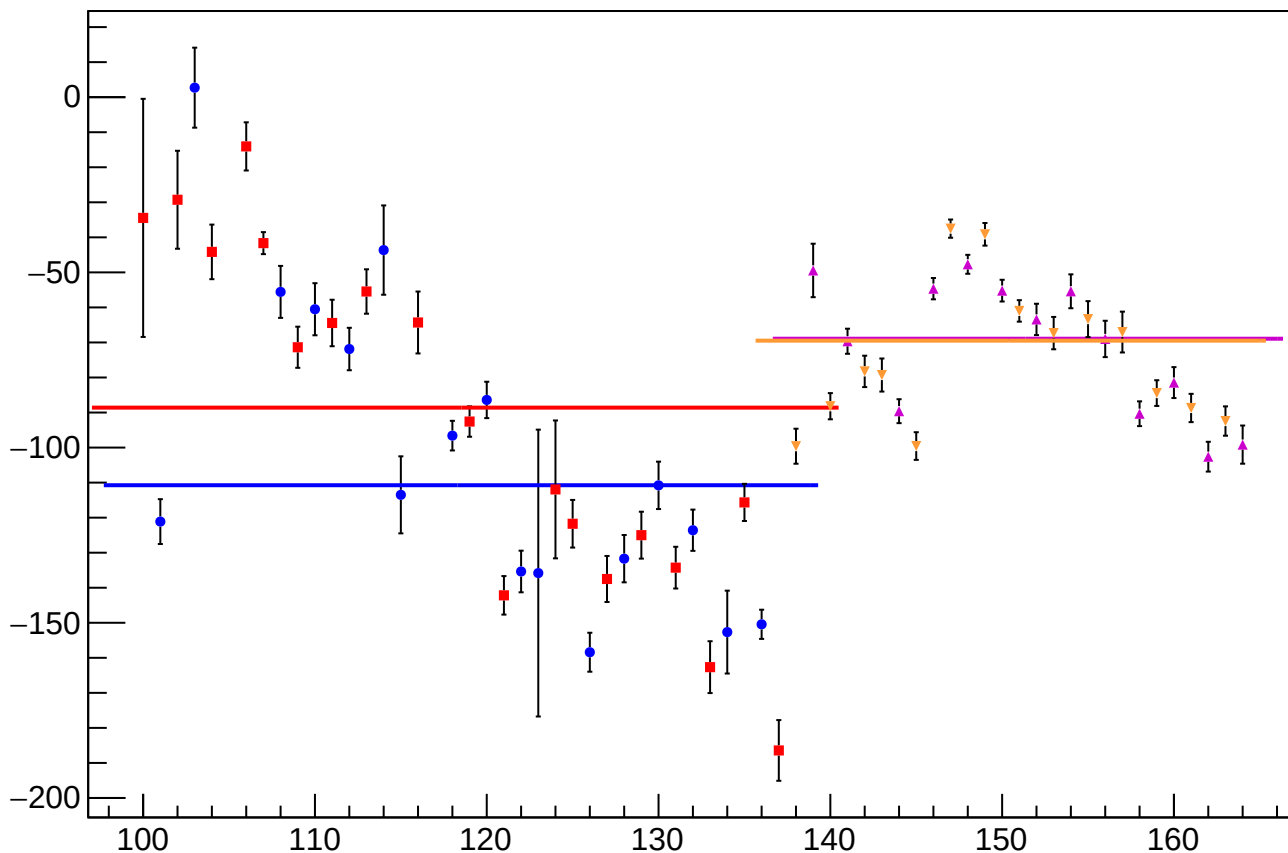
Right:  $-301.220 \pm 1.721$   $\chi^2/\text{NDF}: 4411.6/35$

In:  $-261.378 \pm 1.146$   $\chi^2/\text{NDF}: 1932.7/29$

Out:  $-252.556 \pm 1.119$   $\chi^2/\text{NDF}: 3997.1/32$

All:  $-256.862 \pm 0.801$   $\chi^2/\text{NDF}: 5960.1/62$

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:  $-69.483 \pm 1.038$   $\chi^2/\text{NDF}$ : 446.4/13

Right Out:  $-88.600 \pm 1.435$   $\chi^2/\text{NDF}$ : 969.7/18

Left In:  $-68.931 \pm 1.066$   $\chi^2/\text{NDF}$ : 294.2/12

Left:  $-69.215 \pm 0.744$   $\chi^2/\text{NDF}$ : 740.7/26

Right:  $-98.623 \pm 1.061$   $\chi^2/\text{NDF}$ : 1591.0/35

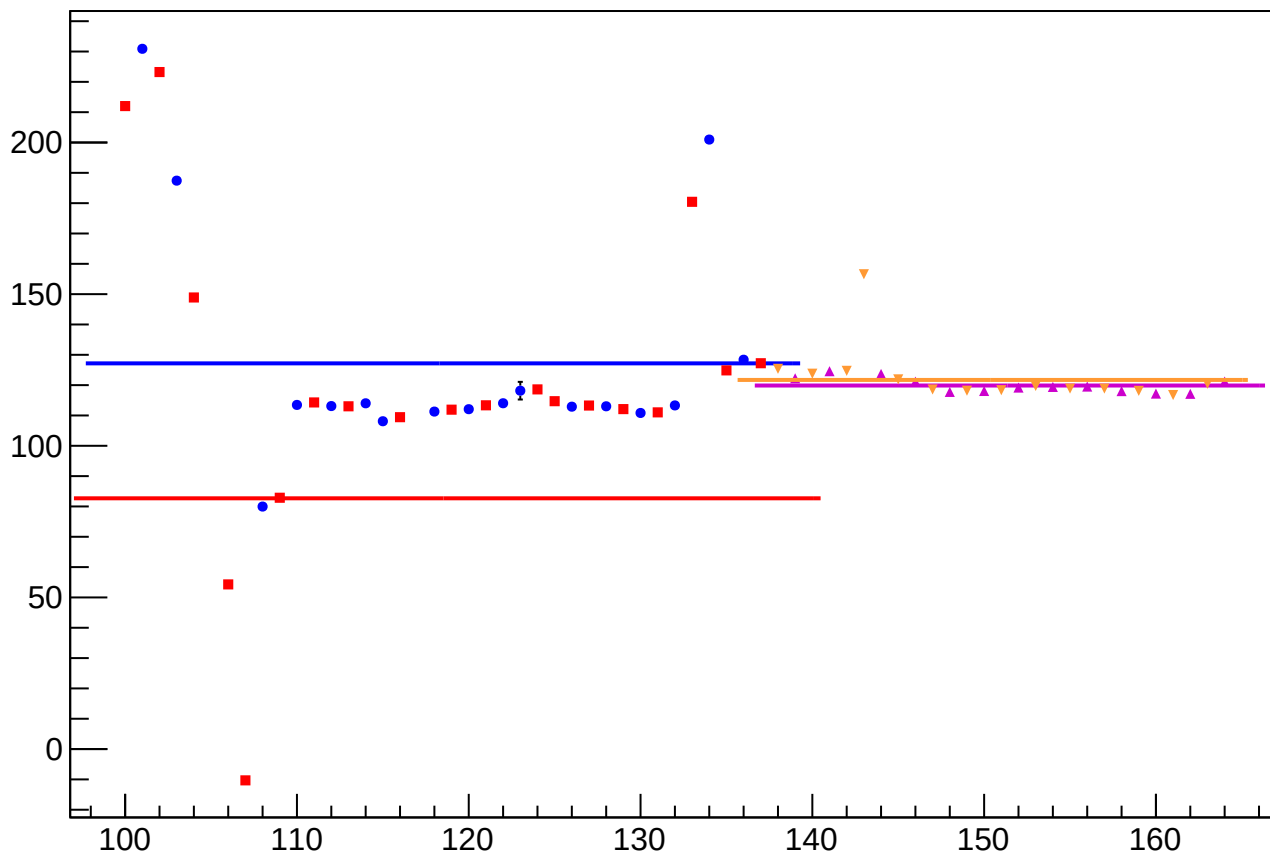
In:  $-82.035 \pm 0.883$   $\chi^2/\text{NDF}$ : 1290.0/29

Out:  $-76.052 \pm 0.841$   $\chi^2/\text{NDF}$ : 1532.7/32

All:  $-78.897 \pm 0.609$   $\chi^2/\text{NDF}$ : 2846.7/62



reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 127.179 $\pm$ 0.089  $\chi^2$ /NDF: 188050.9/16

Left Out: 121.715 $\pm$ 0.051  $\chi^2$ /NDF: 23673.1/13

Right Out: 82.684 $\pm$ 0.075  $\chi^2$ /NDF: 765716.0/18

Left In: 119.874 $\pm$ 0.051  $\chi^2$ /NDF: 2197.8/12

Left: 120.792 $\pm$ 0.036  $\chi^2$ /NDF: 26520.3/26

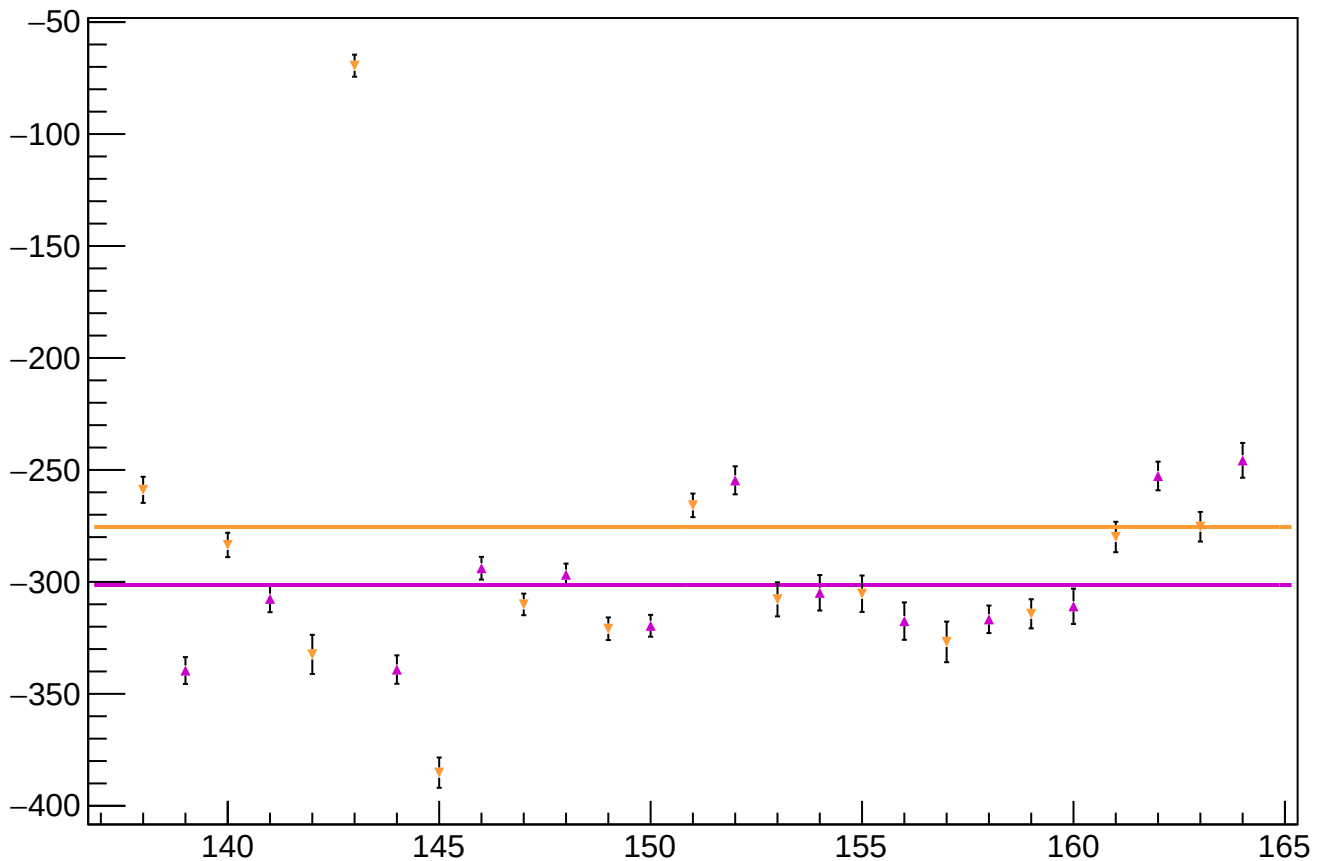
Right: 101.242 $\pm$ 0.057  $\chi^2$ /NDF: 1099401.9/35

In: 121.680 $\pm$ 0.044  $\chi^2$ /NDF: 195317.8/29

Out: 109.388 $\pm$ 0.042  $\chi^2$ /NDF: 973210.2/32

All: 115.259 $\pm$ 0.031  $\chi^2$ /NDF: 1208826.6/62

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -275.466+/-1.643  $\chi^2/\text{NDF}$ :2301.7/13

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

Left In: -301.384+/-1.710  $\chi^2/\text{NDF}$ :270.7/12

Left: -287.901+/-1.185  $\chi^2/\text{NDF}$ : 2691.9/26

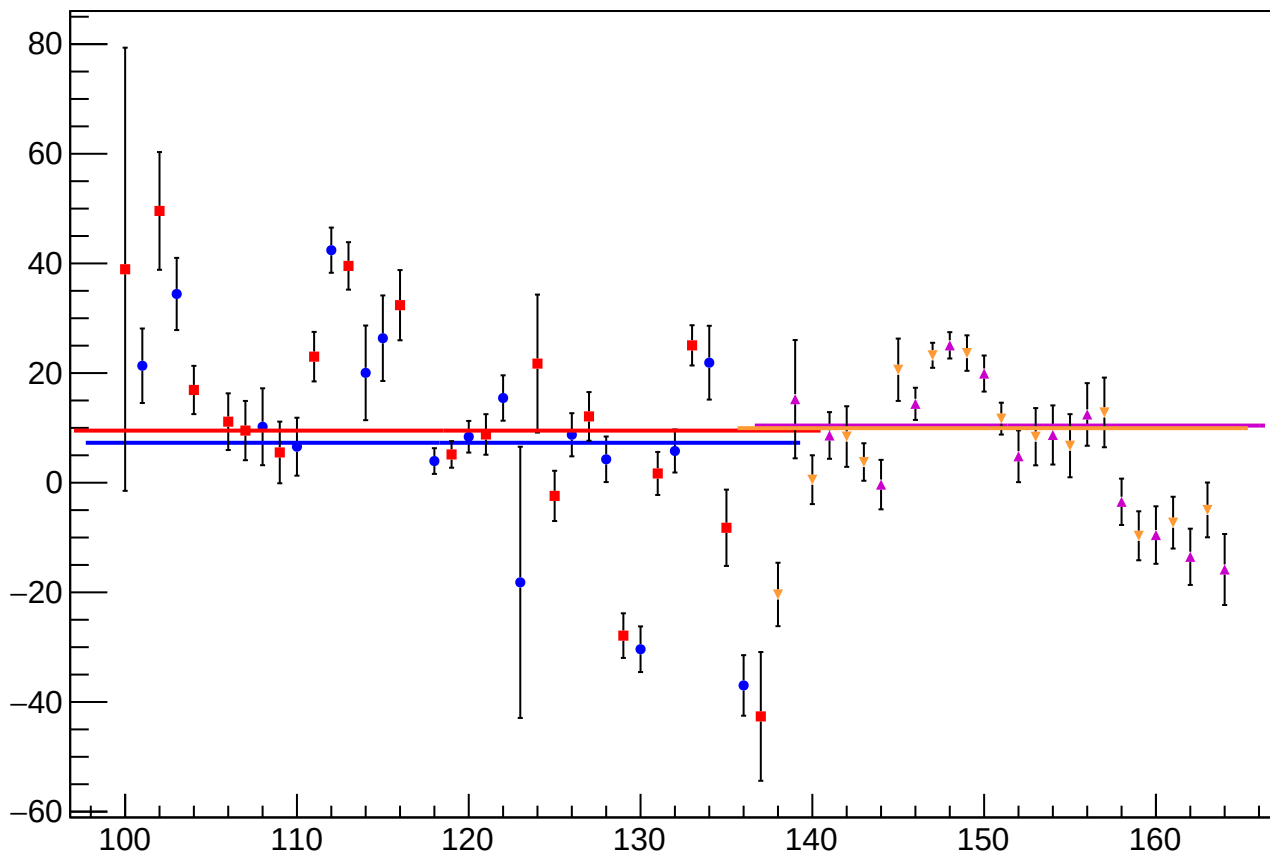
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -301.384+/-1.710  $\chi^2/\text{NDF}$ :270.7/12

Out: -275.466+/-1.643  $\chi^2/\text{NDF}$ :2301.7/13

All: -287.901+/-1.185  $\chi^2/\text{NDF}$ : 2691.9/26

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:  $9.947 \pm 1.077$   $\chi^2/\text{NDF}$ : 133.1/13

Right Out:  $9.505 \pm 1.074$   $\chi^2/\text{NDF}$ : 231.5/18

Left In:  $10.425 \pm 1.148$   $\chi^2/\text{NDF}$ : 118.6/12

Left:  $10.171 \pm 0.786$   $\chi^2/\text{NDF}$ : 251.8/26

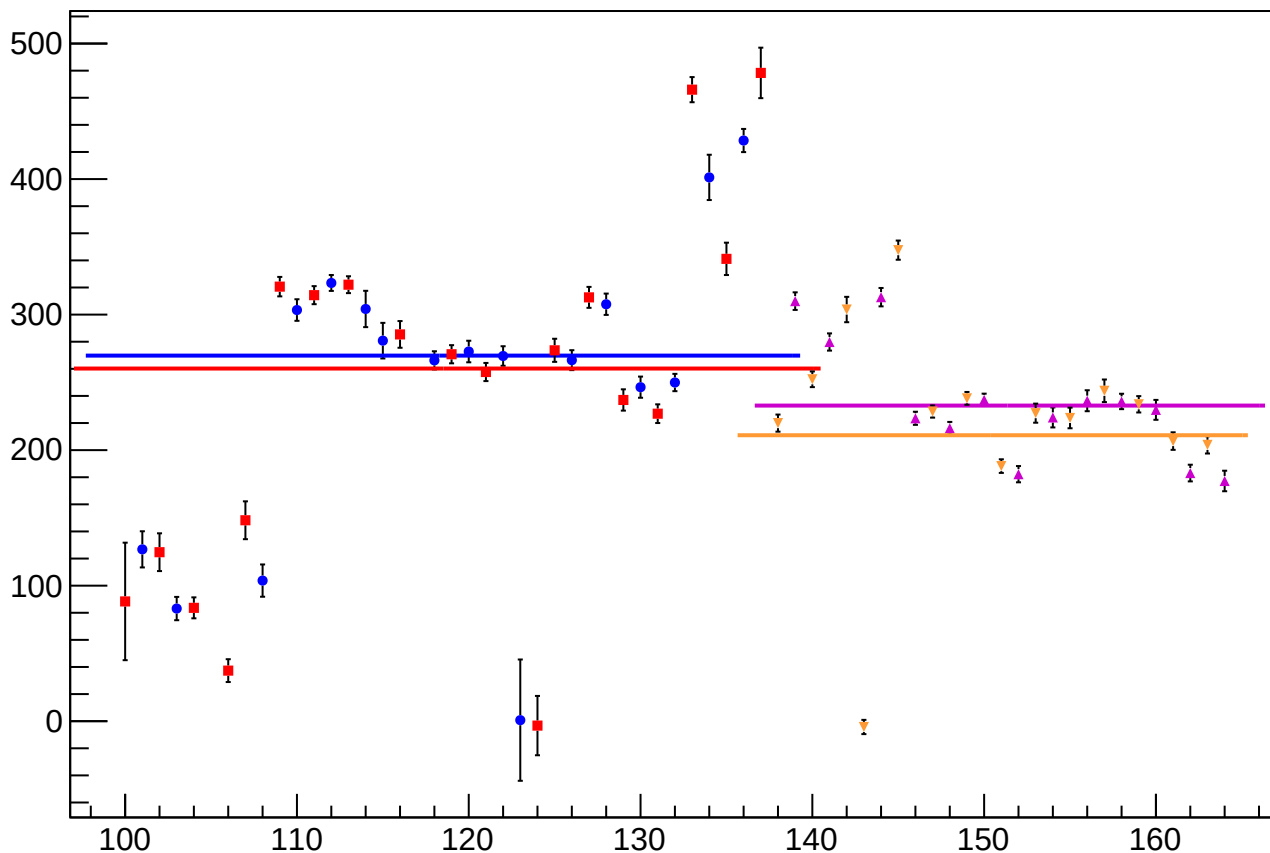
Right:  $8.404 \pm 0.763$   $\chi^2/\text{NDF}$ : 494.7/35

In:  $8.764 \pm 0.788$   $\chi^2/\text{NDF}$ : 383.5/29

Out:  $9.725 \pm 0.761$   $\chi^2/\text{NDF}$ : 364.7/32

All:  $9.262 \pm 0.547$   $\chi^2/\text{NDF}$ : 749.0/62

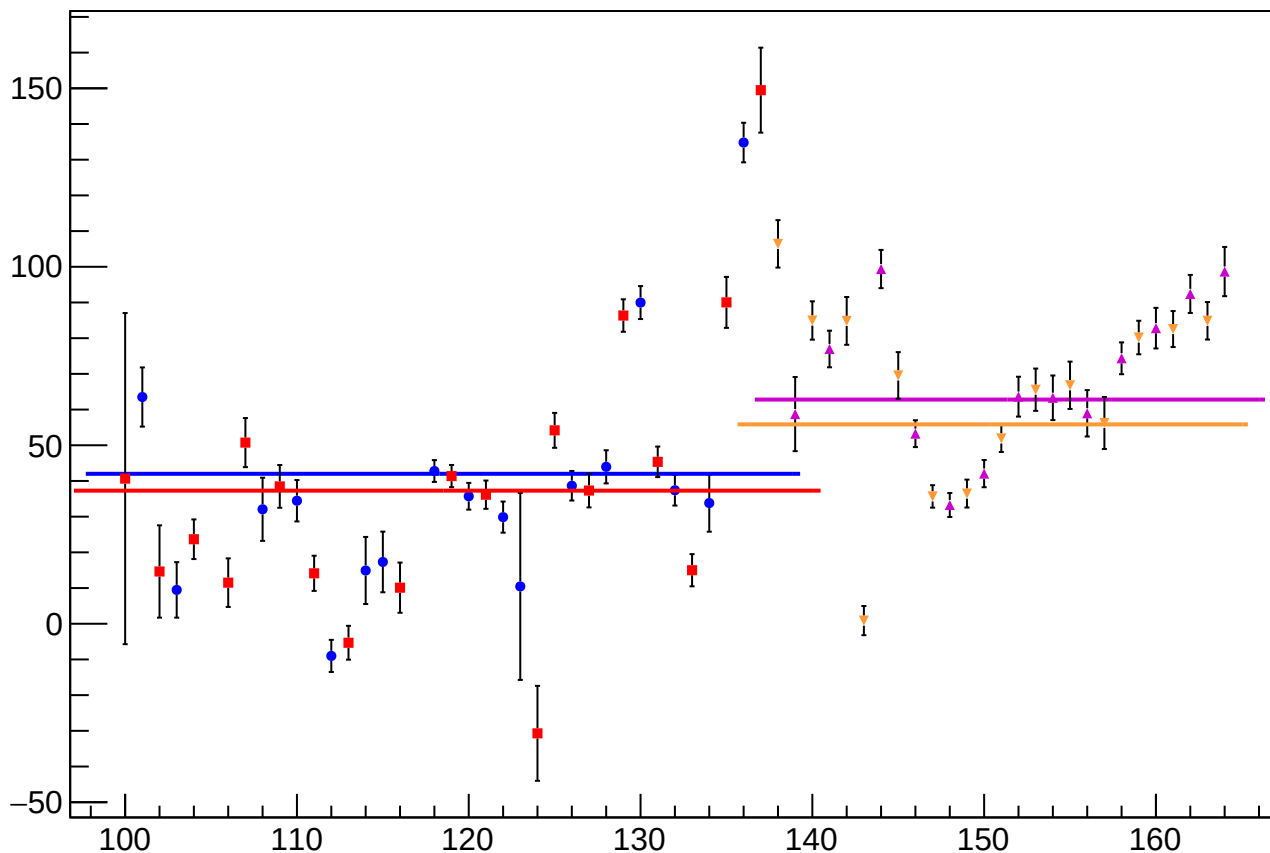
reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 269.748 $\pm$ 2.071  $\chi^2$ /NDF: 1374.1/16  
 Left Out: 210.993 $\pm$ 1.613  $\chi^2$ /NDF:2309.0/13  
 Right Out: 260.206 $\pm$ 1.978  $\chi^2$ /NDF: 2541.6/18  
 Left In: 232.876 $\pm$ 1.658  $\chi^2$ /NDF:544.9/12

Left: 221.637 $\pm$ 1.156  $\chi^2$ /NDF: 2943.4/26  
 Right: 264.757 $\pm$ 1.430  $\chi^2$ /NDF: 3926.7/35  
 In: 247.274 $\pm$ 1.294  $\chi^2$ /NDF:2112.1/29  
 Out: 230.657 $\pm$ 1.250  $\chi^2$ /NDF:5222.4/32  
 All: 238.677 $\pm$ 0.899  $\chi^2$ /NDF: 7419.7/62

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: 55.846 $\pm$ 1.302  $\chi^2$ /NDF:448.6/13

Right Out: 37.284 $\pm$ 1.237  $\chi^2$ /NDF: 472.6/18

Left In: 62.802 $\pm$ 1.375  $\chi^2$ /NDF:245.1/12

Left: 59.136 $\pm$ 0.945  $\chi^2$ /NDF: 707.2/26

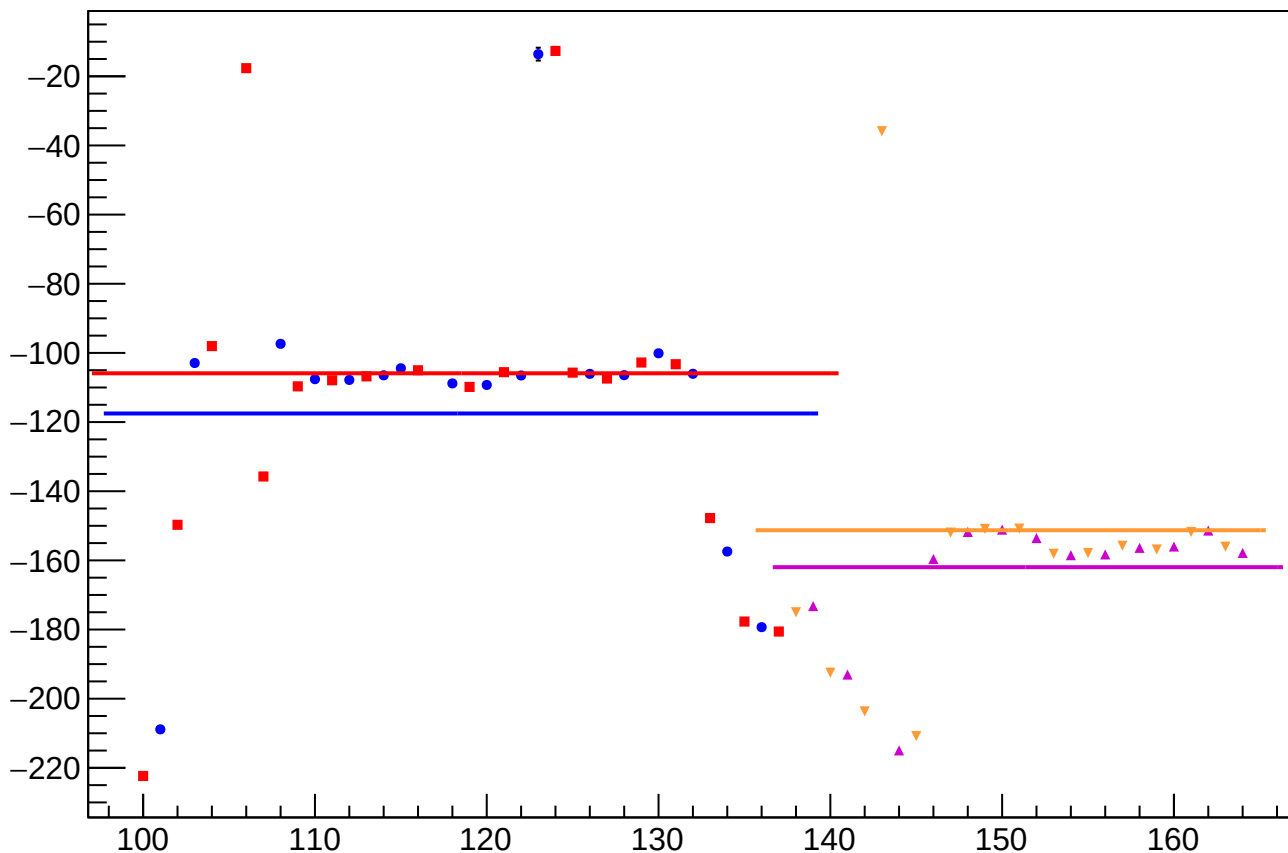
Right: 39.611 $\pm$ 0.881  $\chi^2$ /NDF: 1055.4/35

In: 51.462 $\pm$ 0.927  $\chi^2$ /NDF:945.5/29

Out: 46.090 $\pm$ 0.897  $\chi^2$ /NDF:1028.0/32

All: 48.687 $\pm$ 0.645  $\chi^2$ /NDF: 1990.8/62

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: -151.282+/-0.065  $\chi^2/\text{NDF}$ : 403619.3/13

Right Out: -105.892+/-0.073  $\chi^2/\text{NDF}$ : 324304.4/18

Left In: -161.963+/-0.066  $\chi^2/\text{NDF}$ : 59623.1/12

Left: -156.523+/-0.046  $\chi^2/\text{NDF}$ : 476580.1/26

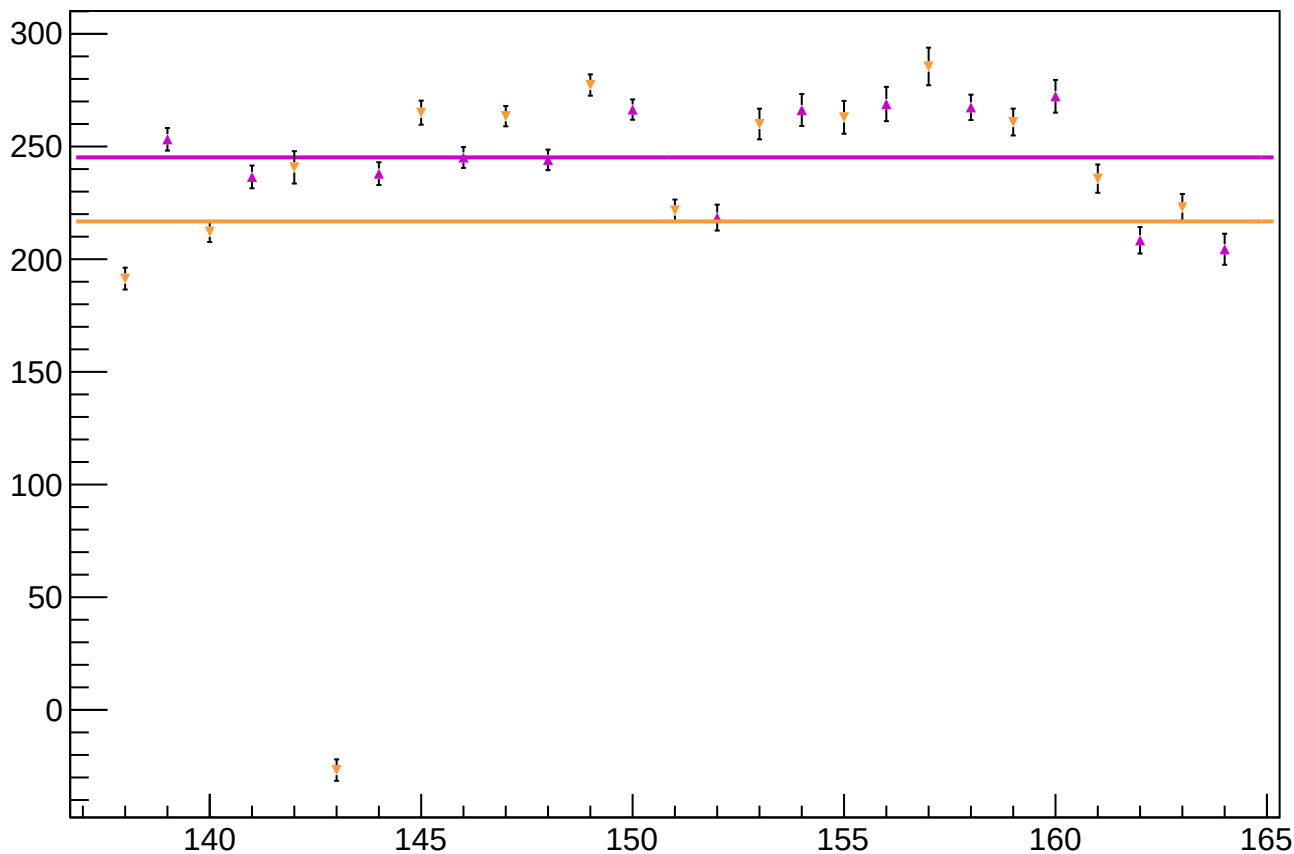
Right: -111.303+/-0.053  $\chi^2/\text{NDF}$ : 478188.8/35

In: -143.418+/-0.050  $\chi^2/\text{NDF}$ : 390860.9/29

Out: -131.222+/-0.048  $\chi^2/\text{NDF}$ : 944858.4/32

All: -137.075+/-0.035  $\chi^2/\text{NDF}$ : 1366195.7/62

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: 216.768±1.470  $\chi^2/\text{NDF}$ :3229.8/13

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

Left In: 245.180±1.524  $\chi^2/\text{NDF}$ :173.6/12

Left: 230.462±1.058  $\chi^2/\text{NDF}$ : 3583.4/26

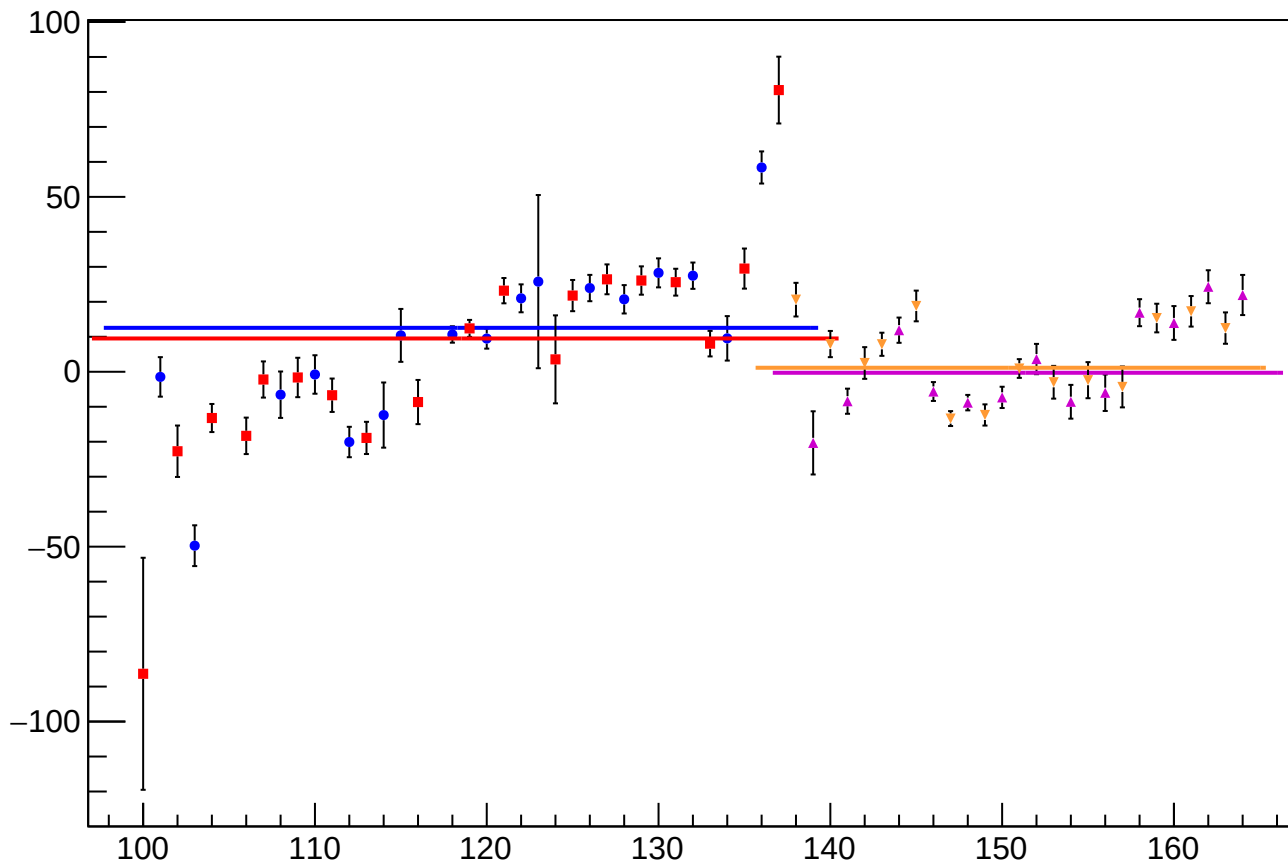
Right: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 245.180±1.524  $\chi^2/\text{NDF}$ :173.6/12

Out: 216.768±1.470  $\chi^2/\text{NDF}$ :3229.8/13

All: 230.462±1.058  $\chi^2/\text{NDF}$ : 3583.4/26

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: 1.149+/-0.976  $\chi^2/\text{NDF}$ :140.6/13

Right Out: 9.519+/-1.051  $\chi^2/\text{NDF}$ : 296.2/18

Left In: -0.288+/-1.034  $\chi^2/\text{NDF}$ :121.3/12

Left: 0.472+/-0.710  $\chi^2/\text{NDF}$ : 262.9/26

Right: 11.033+/-0.745  $\chi^2/\text{NDF}$ : 648.2/35

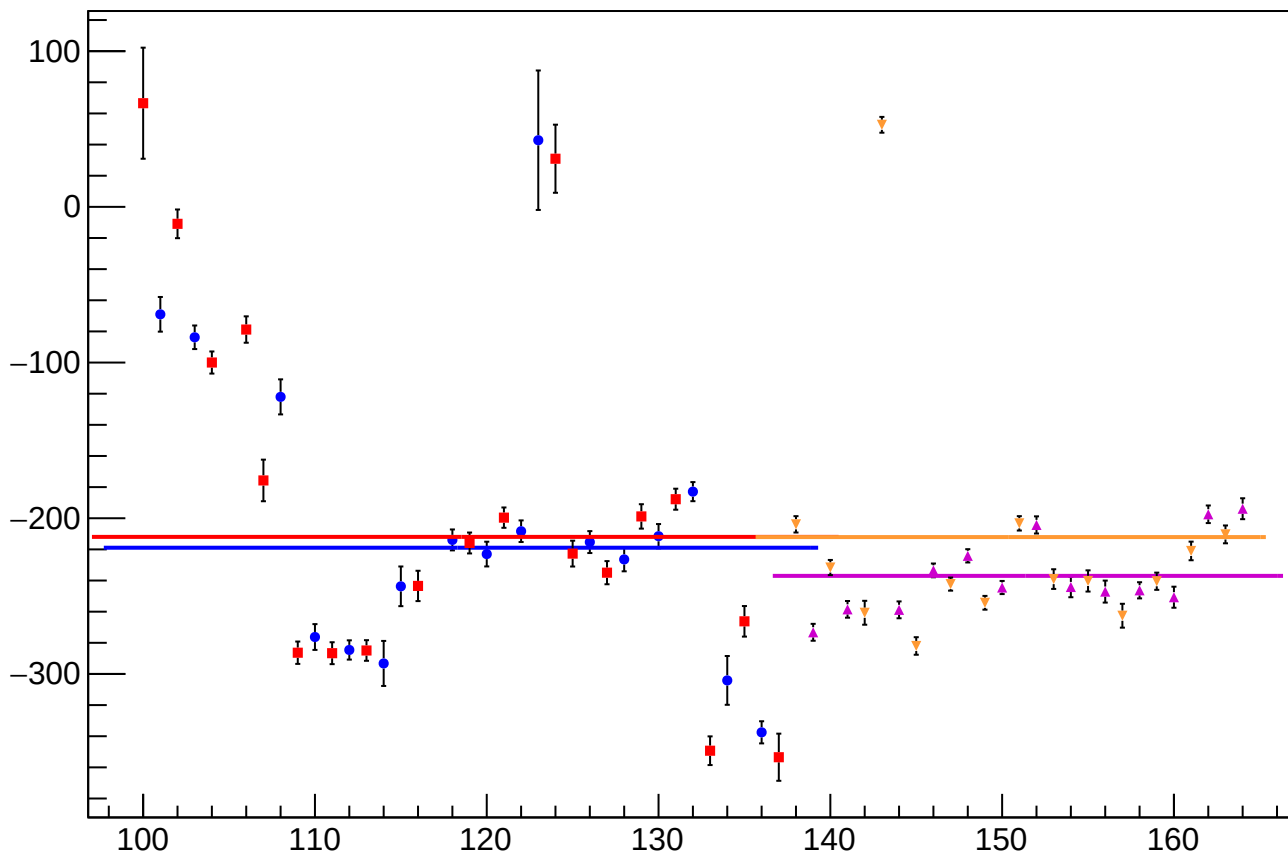
In: 6.005+/-0.739  $\chi^2/\text{NDF}$ :544.6/29

Out: 5.028+/-0.715  $\chi^2/\text{NDF}$ :470.9/32

All: 5.500+/-0.514  $\chi^2/\text{NDF}$ : 1016.4/62



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:  $-212.090 \pm 1.451$   $\chi^2/\text{NDF}$ : 3188.4/13

Right Out:  $-211.968 \pm 1.924$   $\chi^2/\text{NDF}$ : 1886.2/18

Left In:  $-237.004 \pm 1.485$   $\chi^2/\text{NDF}$ : 225.9/12

Left:  $-224.260 \pm 1.038$   $\chi^2/\text{NDF}$ : 3558.4/26

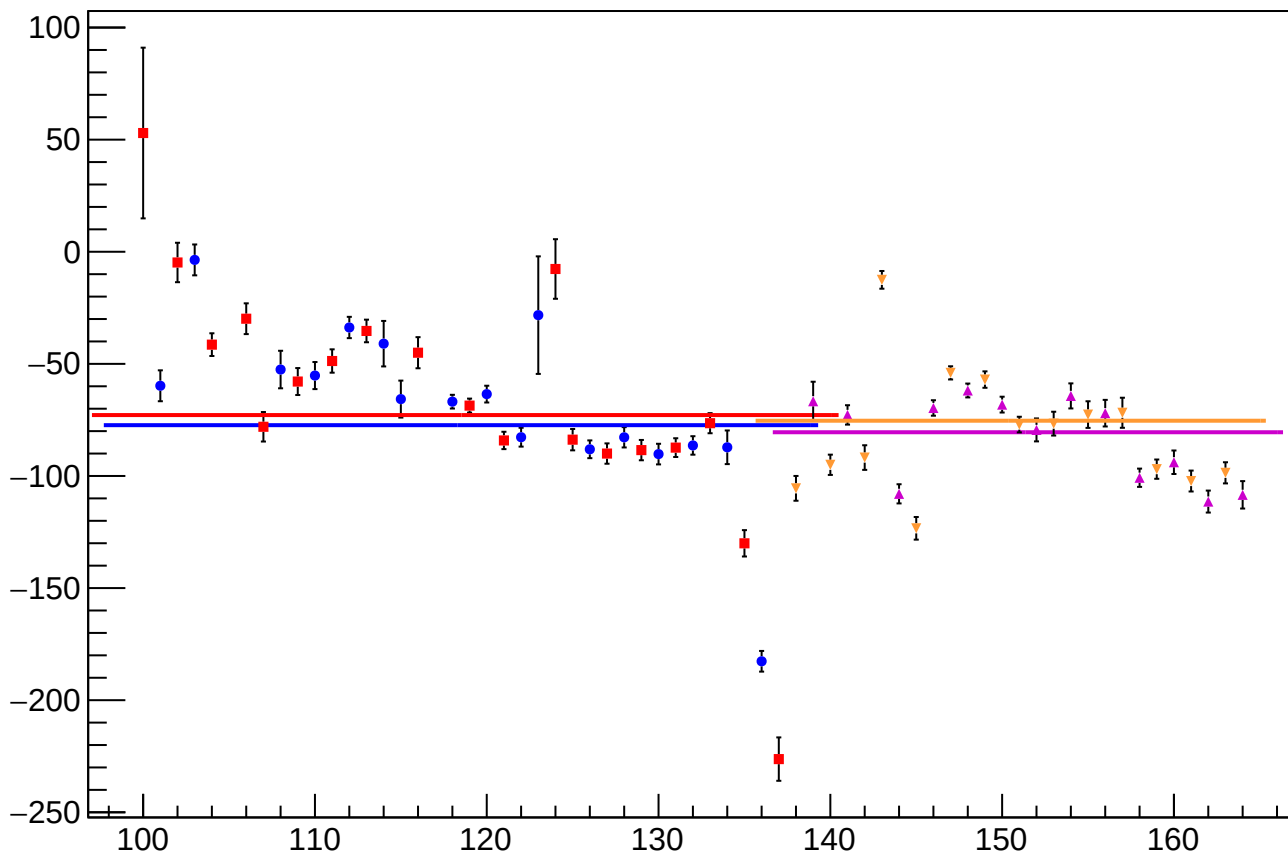
Right:  $-215.302 \pm 1.389$   $\chi^2/\text{NDF}$ : 3039.1/35

In:  $-230.606 \pm 1.193$   $\chi^2/\text{NDF}$ : 1425.0/29

Out:  $-212.046 \pm 1.158$   $\chi^2/\text{NDF}$ : 5074.6/32

All:  $-221.050 \pm 0.831$   $\chi^2/\text{NDF}$ : 6624.1/62

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:  $-75.357 \pm 1.177$   $\chi^2/\text{NDF}: 562.1/13$

Right Out:  $-72.836 \pm 1.209$   $\chi^2/\text{NDF}: 672.9/18$

Left In:  $-80.500 \pm 1.237$   $\chi^2/\text{NDF}: 207.8/12$

Left:  $-77.802 \pm 0.853$   $\chi^2/\text{NDF}: 779.0/26$

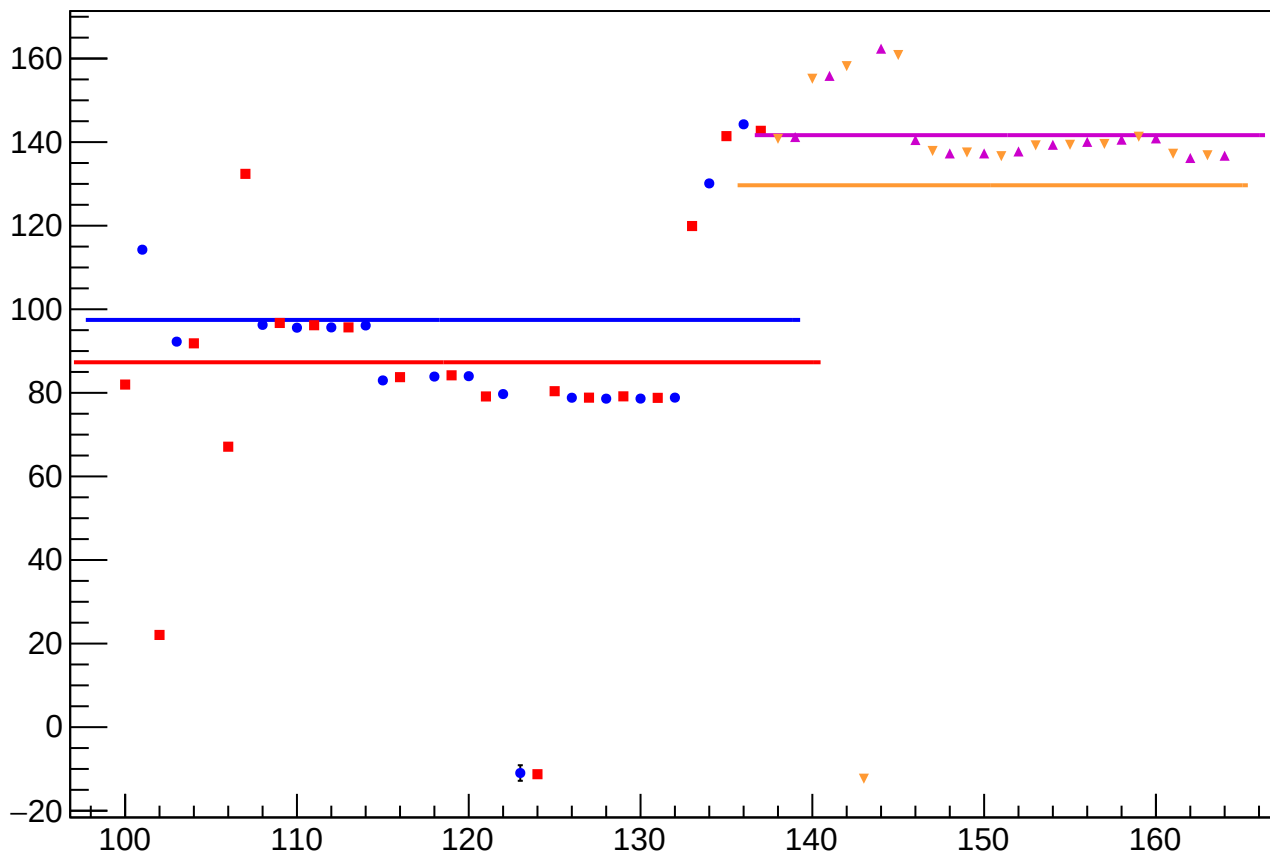
Right:  $-75.069 \pm 0.858$   $\chi^2/\text{NDF}: 1497.0/35$

In:  $-78.899 \pm 0.868$   $\chi^2/\text{NDF}: 1028.3/29$

Out:  $-74.130 \pm 0.843$   $\chi^2/\text{NDF}: 1237.2/32$

All:  $-76.445 \pm 0.605$   $\chi^2/\text{NDF}: 2281.1/62$

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: 129.672 $\pm$ 0.058  $\chi^2$ /NDF: 549514.9/13

Right Out: 87.315 $\pm$ 0.068  $\chi^2$ /NDF: 221837.7/18

Left In: 141.663 $\pm$ 0.059  $\chi^2$ /NDF: 14540.2/12

Left: 135.576 $\pm$ 0.041  $\chi^2$ /NDF: 584969.9/26

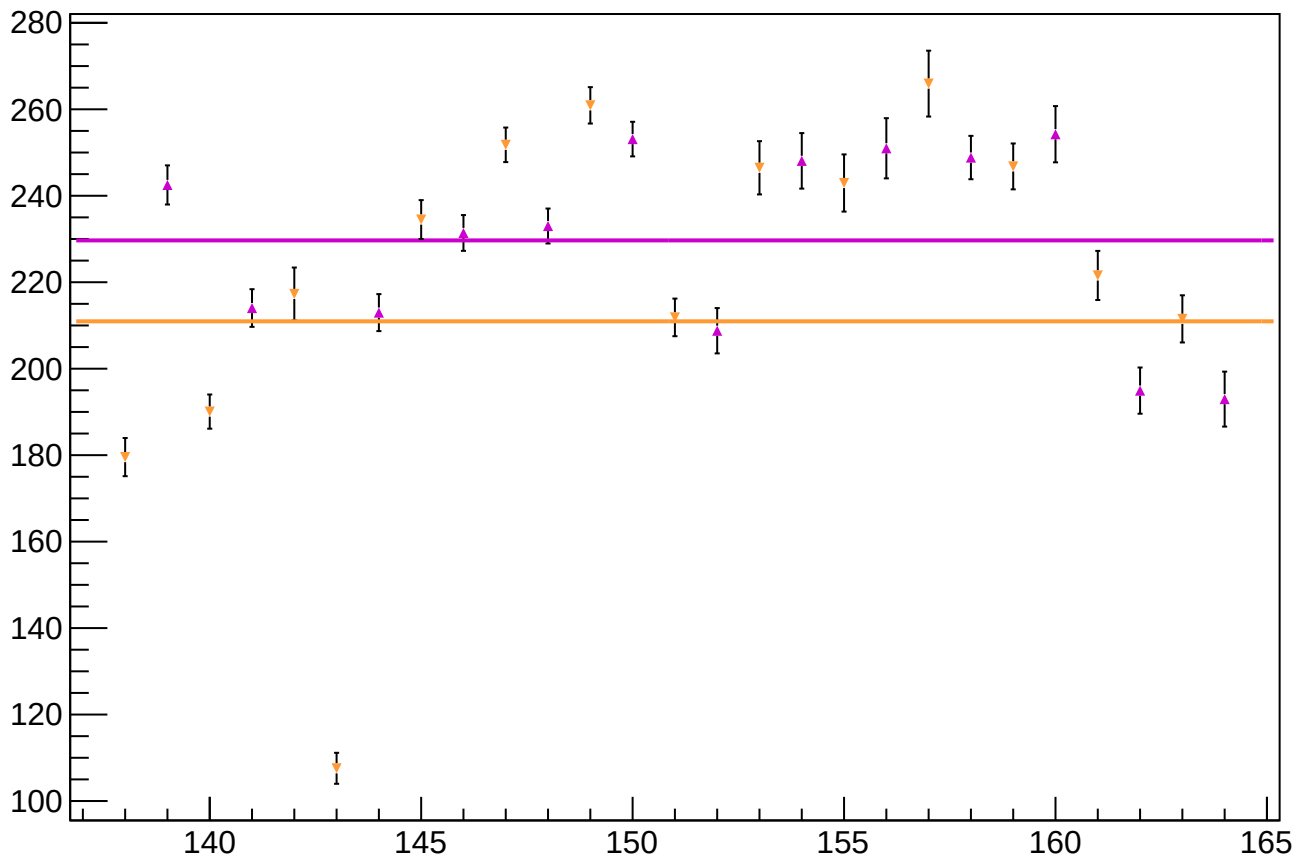
Right: 92.024 $\pm$ 0.050  $\chi^2$ /NDF: 326563.7/35

In: 124.244 $\pm$ 0.046  $\chi^2$ /NDF: 329692.7/29

Out: 111.843 $\pm$ 0.044  $\chi^2$ /NDF: 994450.6/32

All: 117.808 $\pm$ 0.032  $\chi^2$ /NDF: 1361886.5/62

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: 210.959+/-1.283  $\chi^2/\text{NDF}$ :1341.7/13

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

Left In: 229.676+/-1.357  $\chi^2/\text{NDF}$ :209.3/12

Left: 219.789+/-0.932  $\chi^2/\text{NDF}$ : 1651.4/26

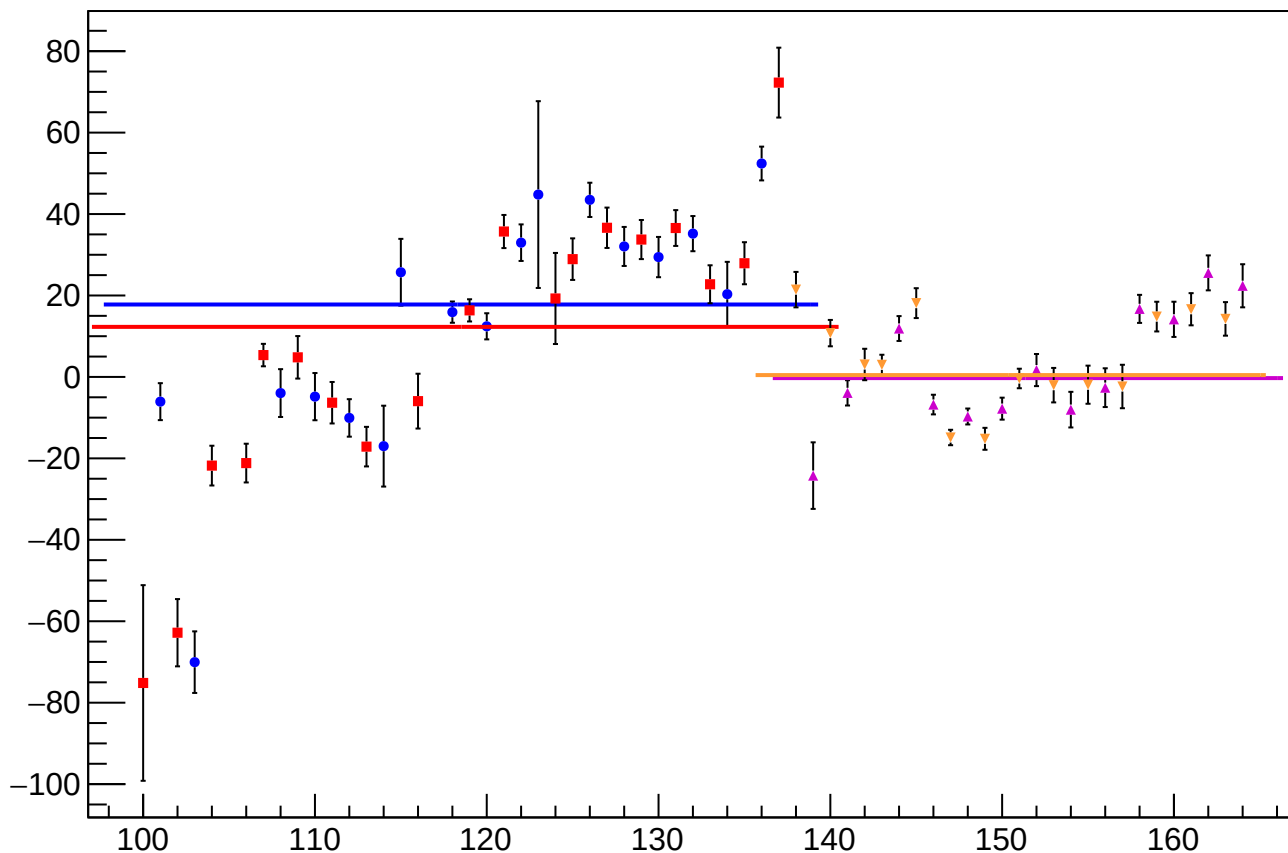
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 229.676+/-1.357  $\chi^2/\text{NDF}$ :209.3/12

Out: 210.959+/-1.283  $\chi^2/\text{NDF}$ :1341.7/13

All: 219.789+/-0.932  $\chi^2/\text{NDF}$ : 1651.4/26

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: 0.452 $\pm$ 0.852  $\chi^2$ /NDF:201.8/13

Right Out: 12.294 $\pm$ 1.086  $\chi^2$ /NDF: 443.7/18

Left In: -0.288 $\pm$ 0.919  $\chi^2$ /NDF:157.7/12

Left: 0.110 $\pm$ 0.625  $\chi^2$ /NDF: 359.9/26

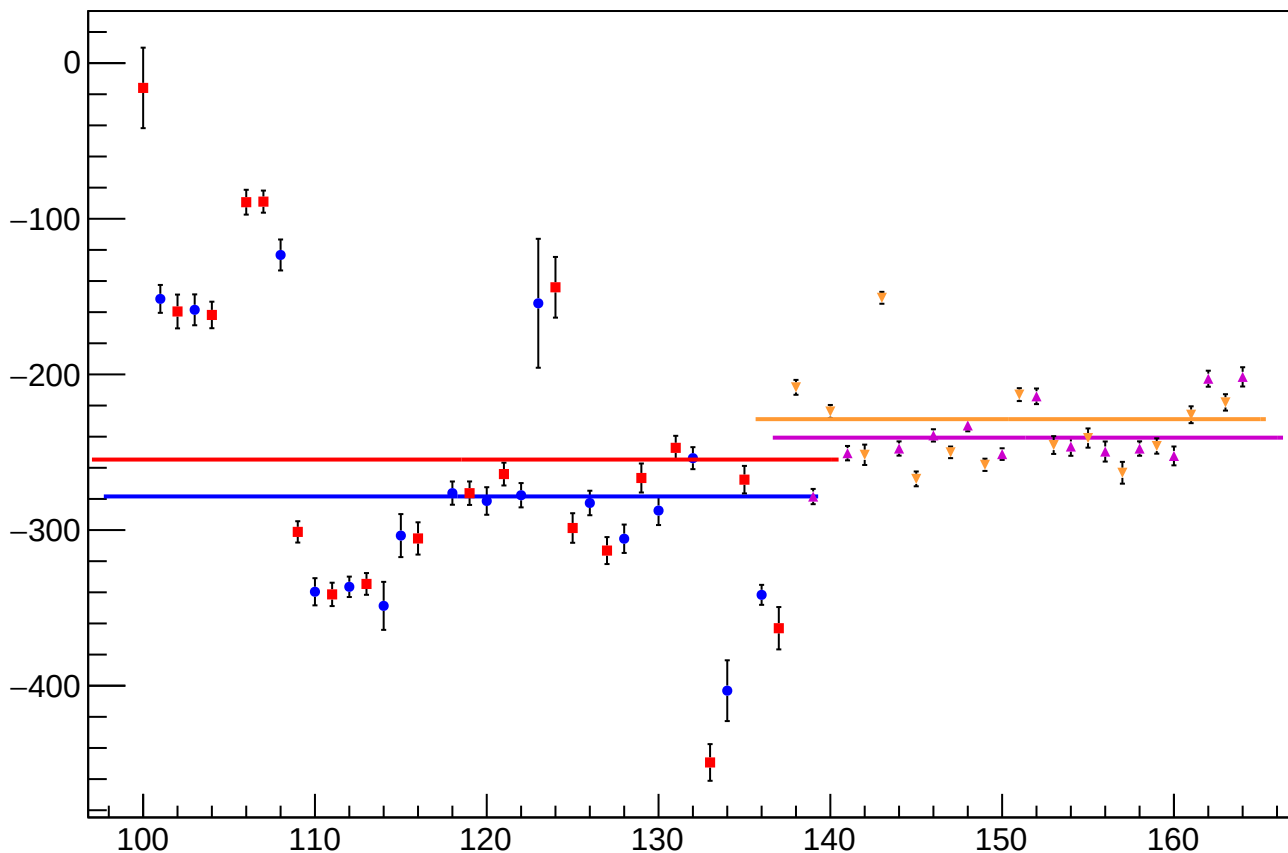
Right: 14.891 $\pm$ 0.788  $\chi^2$ /NDF: 850.9/35

In: 6.781 $\pm$ 0.717  $\chi^2$ /NDF:704.2/29

Out: 4.963 $\pm$ 0.670  $\chi^2$ /NDF:719.1/32

All: 5.811 $\pm$ 0.490  $\chi^2$ /NDF: 1426.8/62

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-278.393 \pm 2.168$   $\chi^2/\text{NDF}$ : 910.5/16

Left Out:  $-228.742 \pm 1.271$   $\chi^2/\text{NDF}$ : 667.9/13

Right Out:  $-254.703 \pm 2.020$   $\chi^2/\text{NDF}$ : 2038.5/18

Left In:  $-240.633 \pm 1.324$   $\chi^2/\text{NDF}$ : 209.9/12

Left:  $-234.445 \pm 0.917$   $\chi^2/\text{NDF}$ : 919.8/26

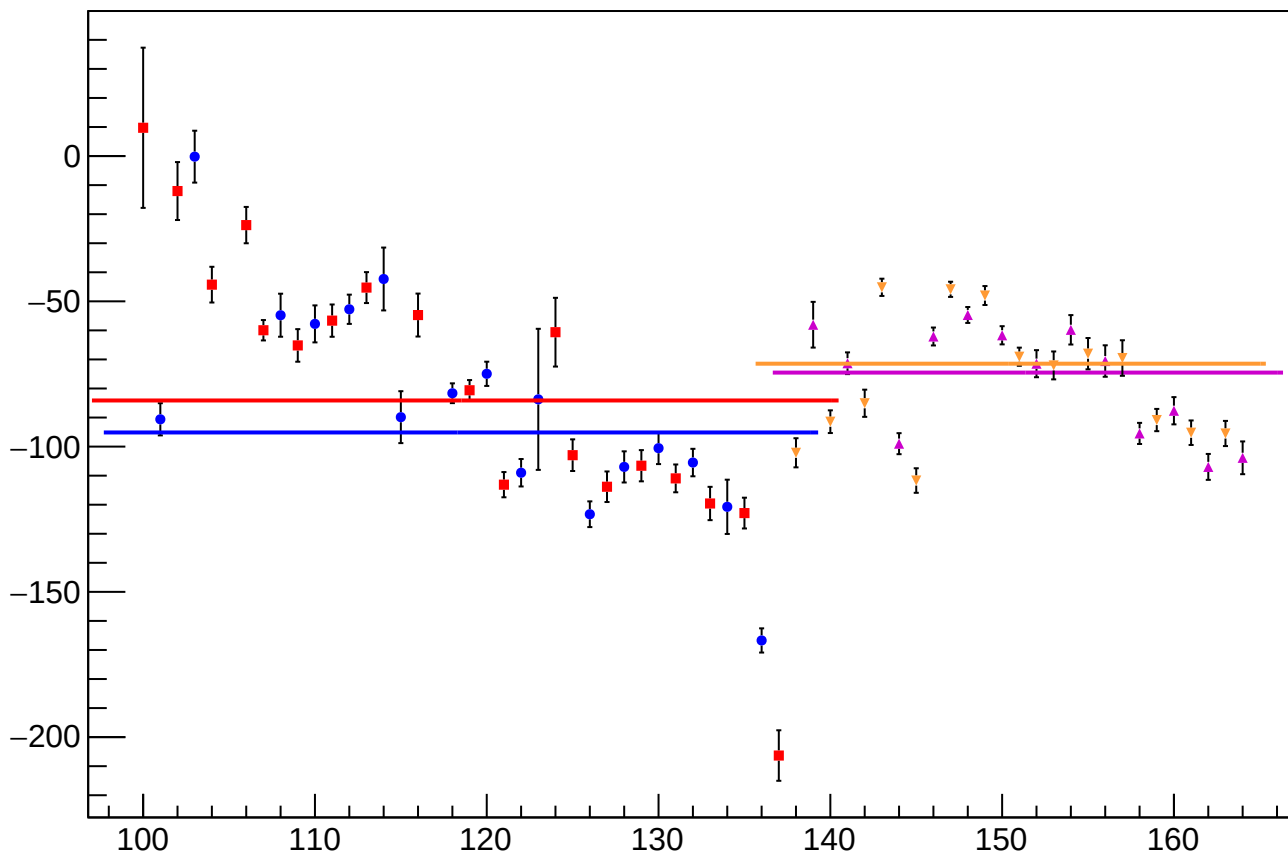
Right:  $-265.715 \pm 1.478$   $\chi^2/\text{NDF}$ : 3013.0/35

In:  $-250.889 \pm 1.130$   $\chi^2/\text{NDF}$ : 1341.5/29

Out:  $-236.103 \pm 1.076$   $\chi^2/\text{NDF}$ : 2824.7/32

All:  $-243.134 \pm 0.779$   $\chi^2/\text{NDF}$ : 4256.0/62

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:  $-71.465 \pm 1.028$   $\chi^2/\text{NDF}: 478.3/13$

Right Out:  $-84.124 \pm 1.259$   $\chi^2/\text{NDF}: 782.9/18$

Left In:  $-74.528 \pm 1.100$   $\chi^2/\text{NDF}: 266.8/12$

Left:  $-72.893 \pm 0.751$   $\chi^2/\text{NDF}: 749.2/26$

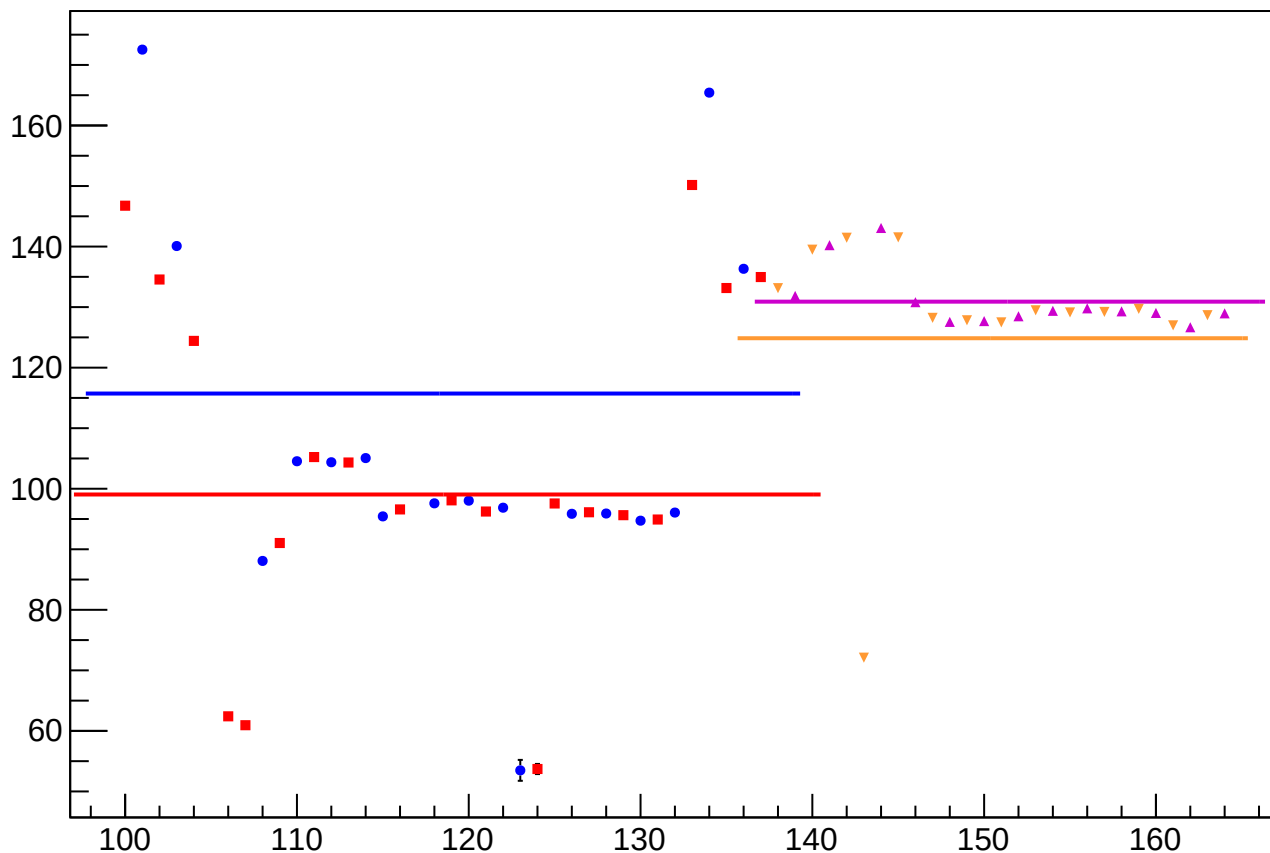
Right:  $-89.357 \pm 0.912$   $\chi^2/\text{NDF}: 1494.2/35$

In:  $-82.955 \pm 0.846$   $\chi^2/\text{NDF}: 1085.2/29$

Out:  $-76.530 \pm 0.796$   $\chi^2/\text{NDF}: 1321.9/32$

All:  $-79.549 \pm 0.580$   $\chi^2/\text{NDF}: 2437.7/62$

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: 124.859 $\pm$ 0.051  $\chi^2$ /NDF:141741.2/13

Right Out: 99.049 $\pm$ 0.069  $\chi^2$ /NDF: 173463.3/18

Left In: 130.901 $\pm$ 0.053  $\chi^2$ /NDF:7920.9/12

Left: 127.780 $\pm$ 0.037  $\chi^2$ /NDF: 156432.2/26

Right: 106.312 $\pm$ 0.051  $\chi^2$ /NDF: 305658.4/35

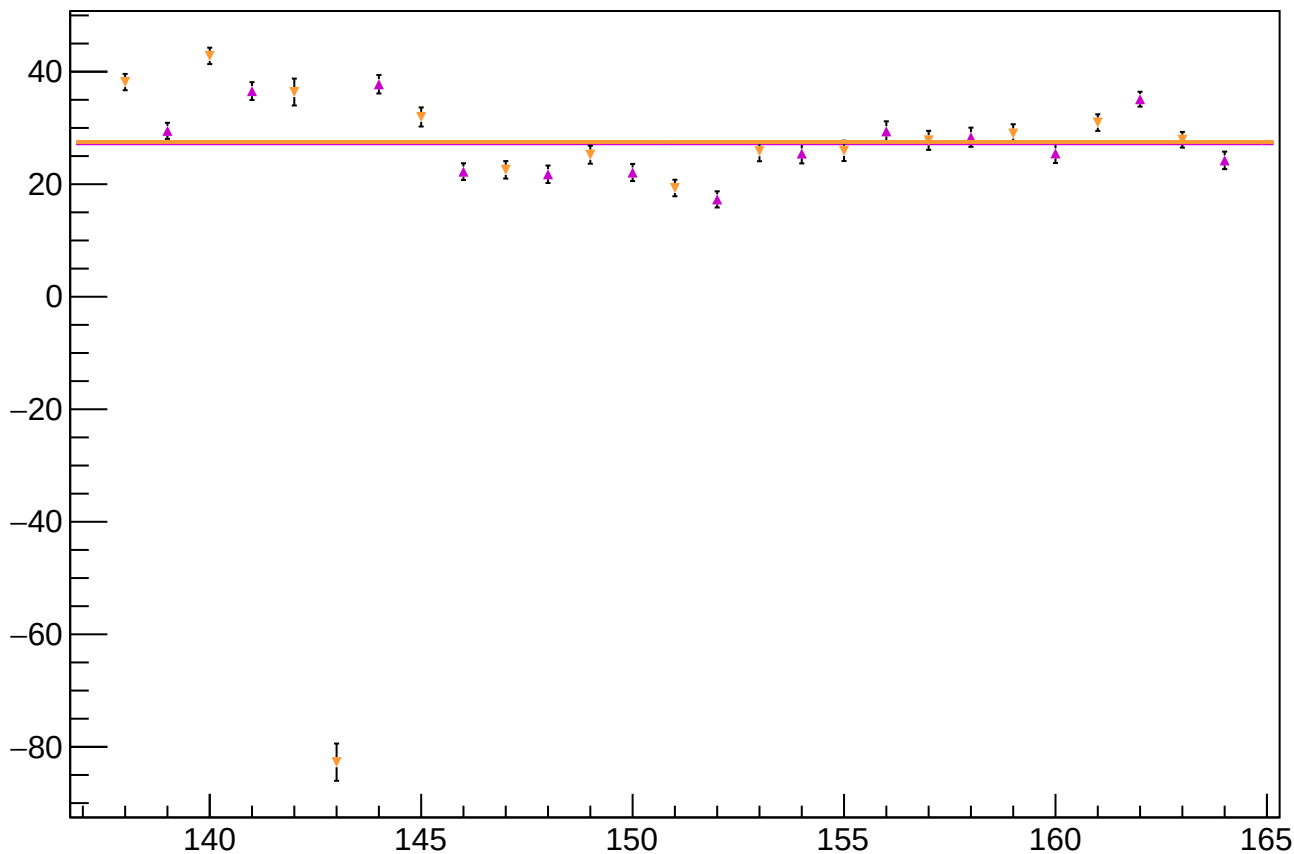
In: 126.134 $\pm$ 0.044  $\chi^2$ /NDF:140291.2/29

Out: 115.642 $\pm$ 0.041  $\chi^2$ /NDF:406464.8/32

All: 120.545 $\pm$ 0.030  $\chi^2$ /NDF: 577453.0/62



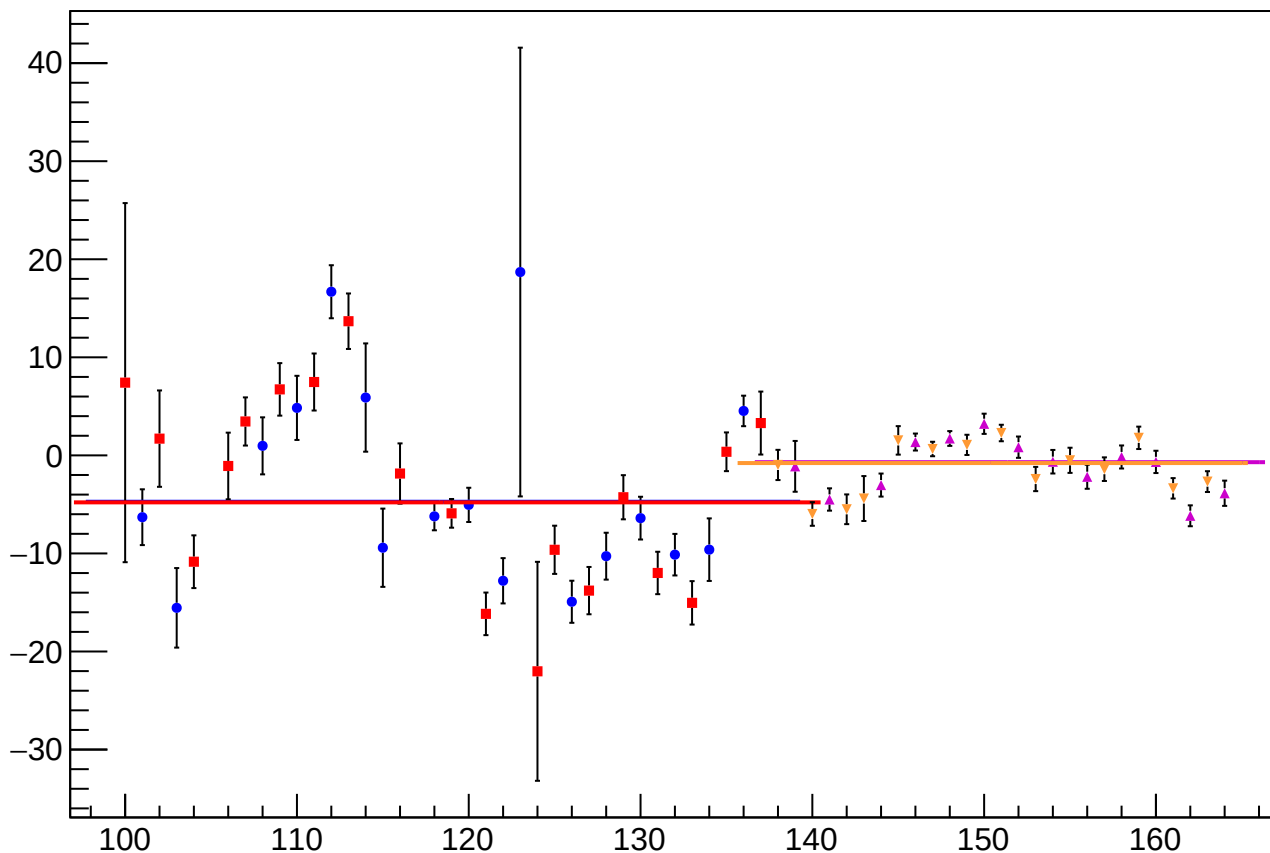
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 27.506+/-0.441     $\chi^2/\text{NDF}$ :1344.2/13  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 27.282+/-0.432     $\chi^2/\text{NDF}$ :204.1/12

Left: 27.392+/-0.309     $\chi^2/\text{NDF}$ : 1548.5/26  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 27.282+/-0.432     $\chi^2/\text{NDF}$ :204.1/12  
 Out: 27.506+/-0.441     $\chi^2/\text{NDF}$ :1344.2/13  
 All: 27.392+/-0.309     $\chi^2/\text{NDF}$ : 1548.5/26

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-4.730 \pm 0.580$   $\chi^2/\text{NDF}: 174.8/16$

Left Out:  $-0.783 \pm 0.302$   $\chi^2/\text{NDF}: 70.0/13$

Right Out:  $-4.793 \pm 0.586$   $\chi^2/\text{NDF}: 193.5/18$

Left In:  $-0.694 \pm 0.303$   $\chi^2/\text{NDF}: 81.5/12$

Left:  $-0.739 \pm 0.214$   $\chi^2/\text{NDF}: 151.6/26$

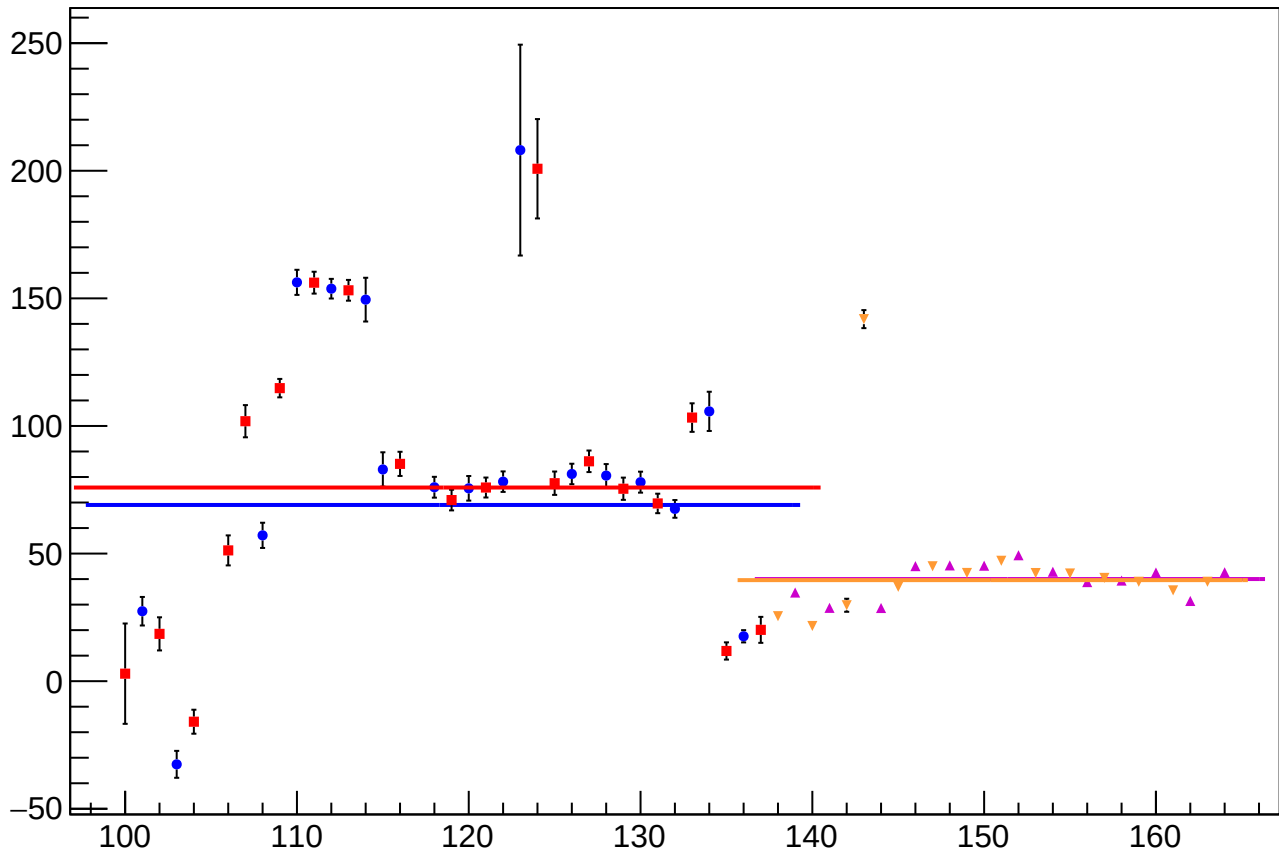
Right:  $-4.761 \pm 0.412$   $\chi^2/\text{NDF}: 368.3/35$

In:  $-1.562 \pm 0.269$   $\chi^2/\text{NDF}: 294.4/29$

Out:  $-1.627 \pm 0.269$   $\chi^2/\text{NDF}: 300.5/32$

All:  $-1.595 \pm 0.190$   $\chi^2/\text{NDF}: 595.0/62$

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 69.048+/-1.077  $\chi^2/\text{NDF}$ : 1847.9/16

Left Out: 39.593+/-0.430  $\chi^2/\text{NDF}$ : 1129.4/13

Right Out: 75.878+/-1.069  $\chi^2/\text{NDF}$ : 1895.0/18

Left In: 40.020+/-0.420  $\chi^2/\text{NDF}$ : 238.4/12

Left: 39.812+/-0.300  $\chi^2/\text{NDF}$ : 1368.3/26

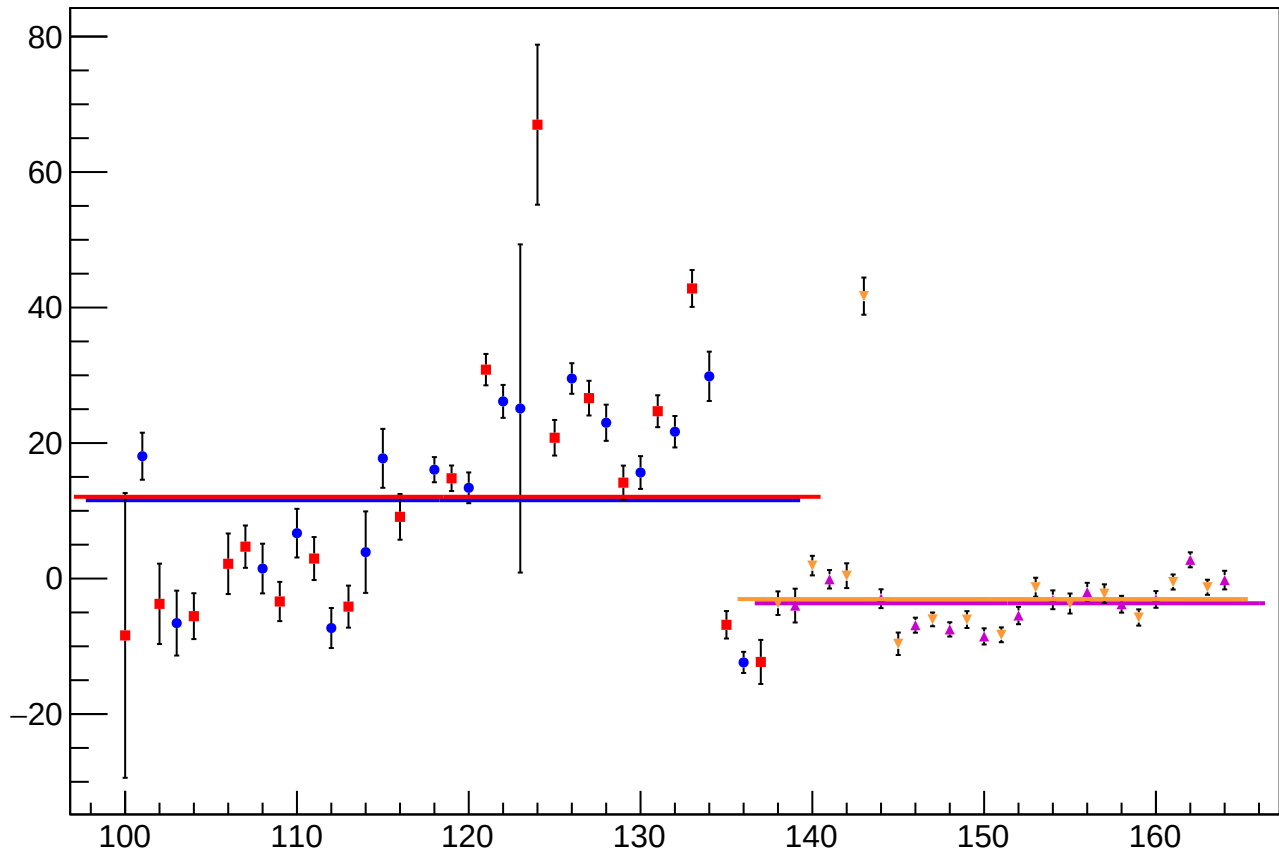
Right: 72.486+/-0.759  $\chi^2/\text{NDF}$ : 3763.1/35

In: 43.848+/-0.391  $\chi^2/\text{NDF}$ : 2717.3/29

Out: 44.651+/-0.399  $\chi^2/\text{NDF}$ : 4015.1/32

All: 44.241+/-0.279  $\chi^2/\text{NDF}$ : 6734.4/62

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.565+/-0.658  $\chi^2/\text{NDF}$ : 478.2/16

Left Out: -3.024+/-0.357  $\chi^2/\text{NDF}$ : 349.6/13

Right Out: 12.071+/-0.665  $\chi^2/\text{NDF}$ : 543.3/18

Left In: -3.645+/-0.355  $\chi^2/\text{NDF}$ : 89.0/12

Left: -3.336+/-0.252  $\chi^2/\text{NDF}$ : 440.2/26

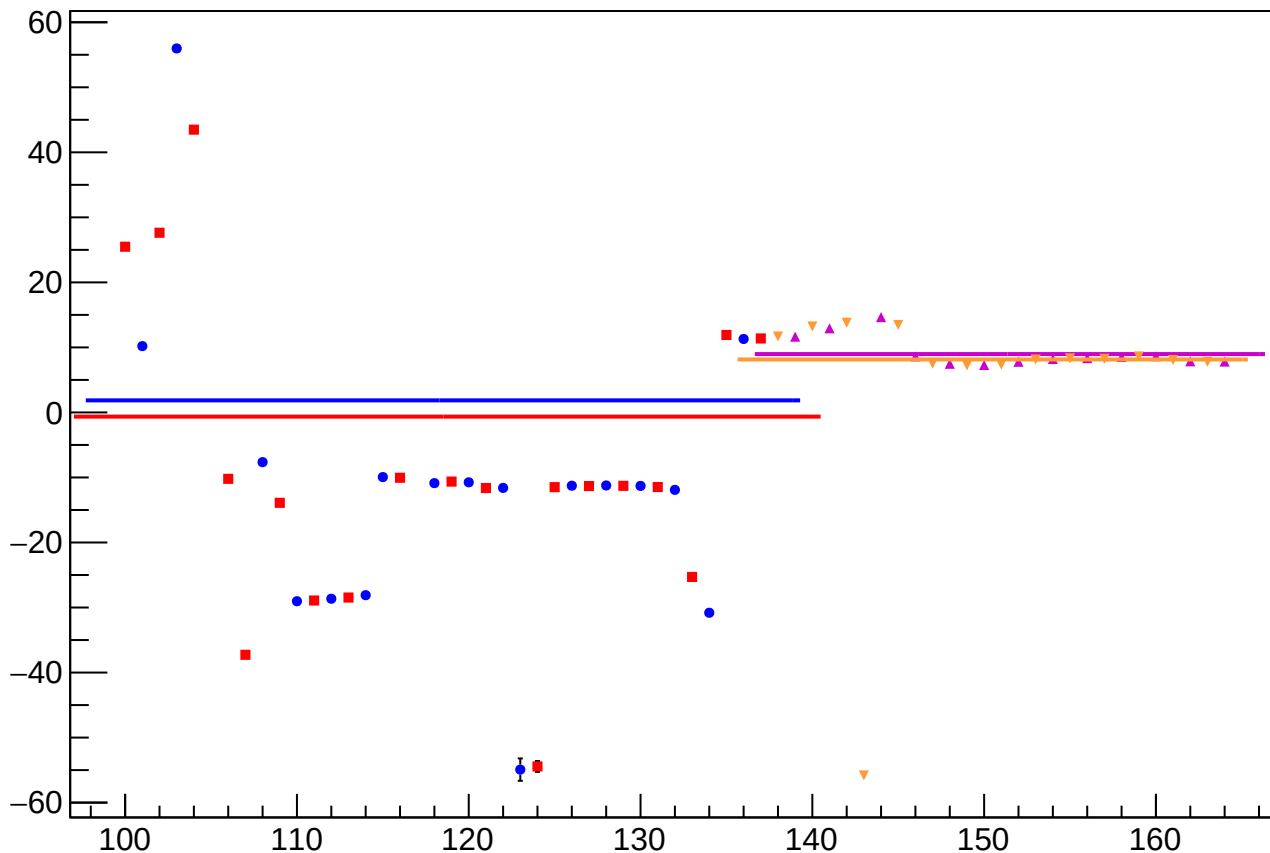
Right: 11.816+/-0.468  $\chi^2/\text{NDF}$ : 1021.8/35

In: -0.215+/-0.313  $\chi^2/\text{NDF}$ : 980.8/29

Out: 0.352+/-0.314  $\chi^2/\text{NDF}$ : 1293.5/32

All: 0.067+/-0.222  $\chi^2/\text{NDF}$ : 2276.0/62

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.855+/-0.037  $\chi^2/\text{NDF}$ : 359414.1/16

Left Out: 8.146+/-0.017  $\chi^2/\text{NDF}$ :222561.7/13

Right Out: -0.644+/-0.037  $\chi^2/\text{NDF}$ : 361625.7/18

Left In: 8.976+/-0.016  $\chi^2/\text{NDF}$ :14330.1/12

Left: 8.571+/-0.012  $\chi^2/\text{NDF}$ : 238138.9/26

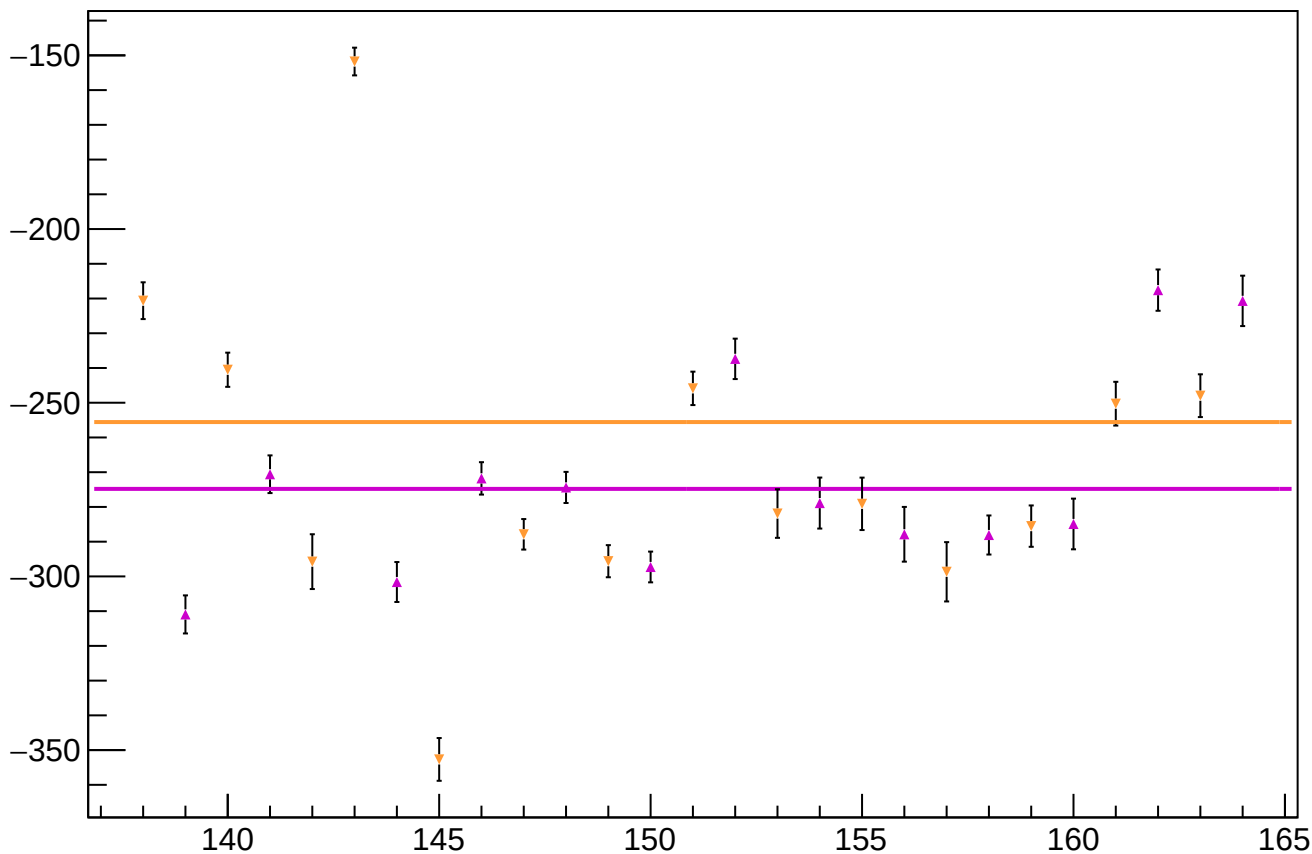
Right: 0.608+/-0.026  $\chi^2/\text{NDF}$ : 723318.4/35

In: 7.804+/-0.015  $\chi^2/\text{NDF}$ :404691.2/29

Out: 6.647+/-0.015  $\chi^2/\text{NDF}$ :630871.4/32

All: 7.237+/-0.011  $\chi^2/\text{NDF}$ : 1038480.8/62

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: -255.565+/-1.482  $\chi^2/\text{NDF}$ :1214.7/13

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

Left In: -274.804+/-1.569  $\chi^2/\text{NDF}$ :292.2/12

Left: -264.633+/-1.077  $\chi^2/\text{NDF}$ : 1586.4/26

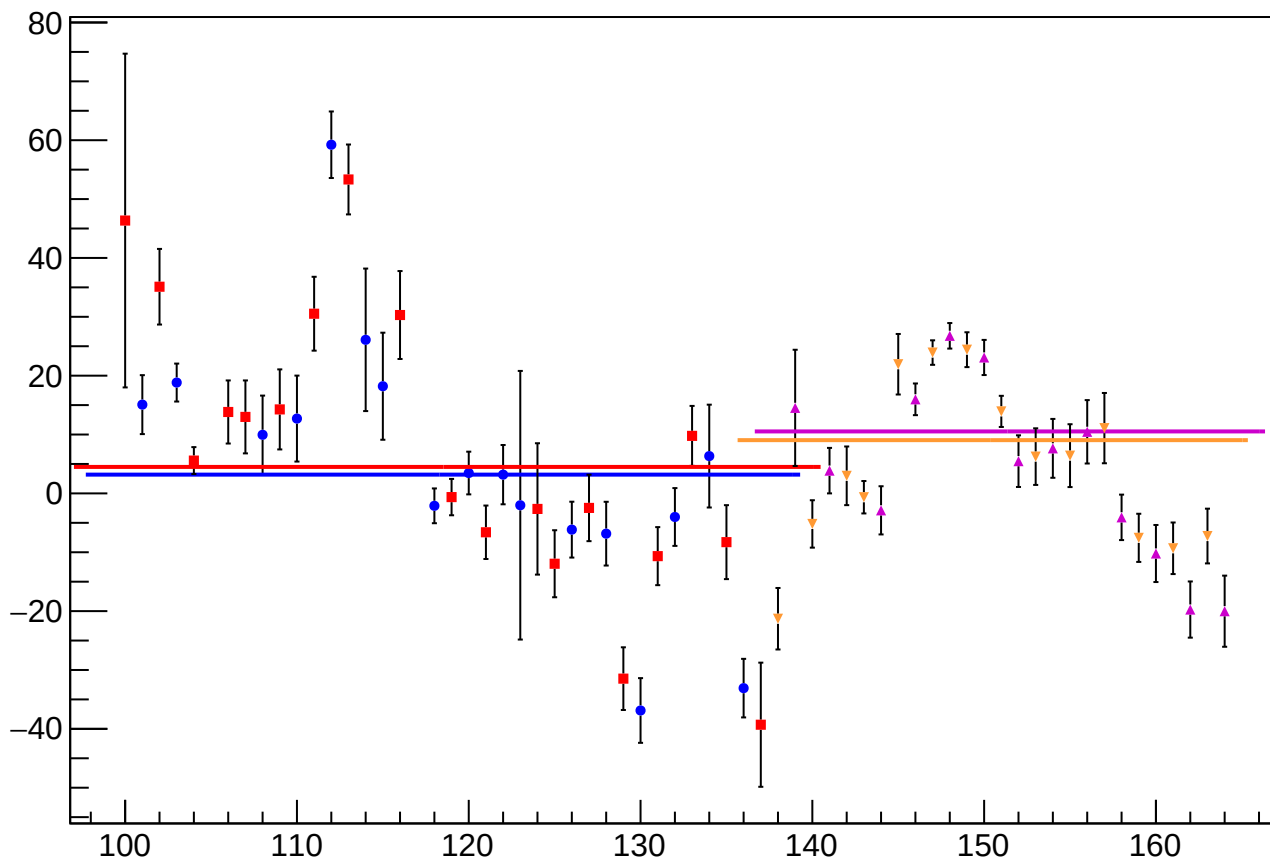
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -274.804+/-1.569  $\chi^2/\text{NDF}$ :292.2/12

Out: -255.565+/-1.482  $\chi^2/\text{NDF}$ :1214.7/13

All: -264.633+/-1.077  $\chi^2/\text{NDF}$ : 1586.4/26

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:  $9.046 \pm 0.971$   $\chi^2/\text{NDF}: 194.8/13$

Right Out:  $4.497 \pm 1.160$   $\chi^2/\text{NDF}: 225.4/18$

Left In:  $10.527 \pm 1.050$   $\chi^2/\text{NDF}: 191.7/12$

Left:  $9.729 \pm 0.713$   $\chi^2/\text{NDF}: 387.6/26$

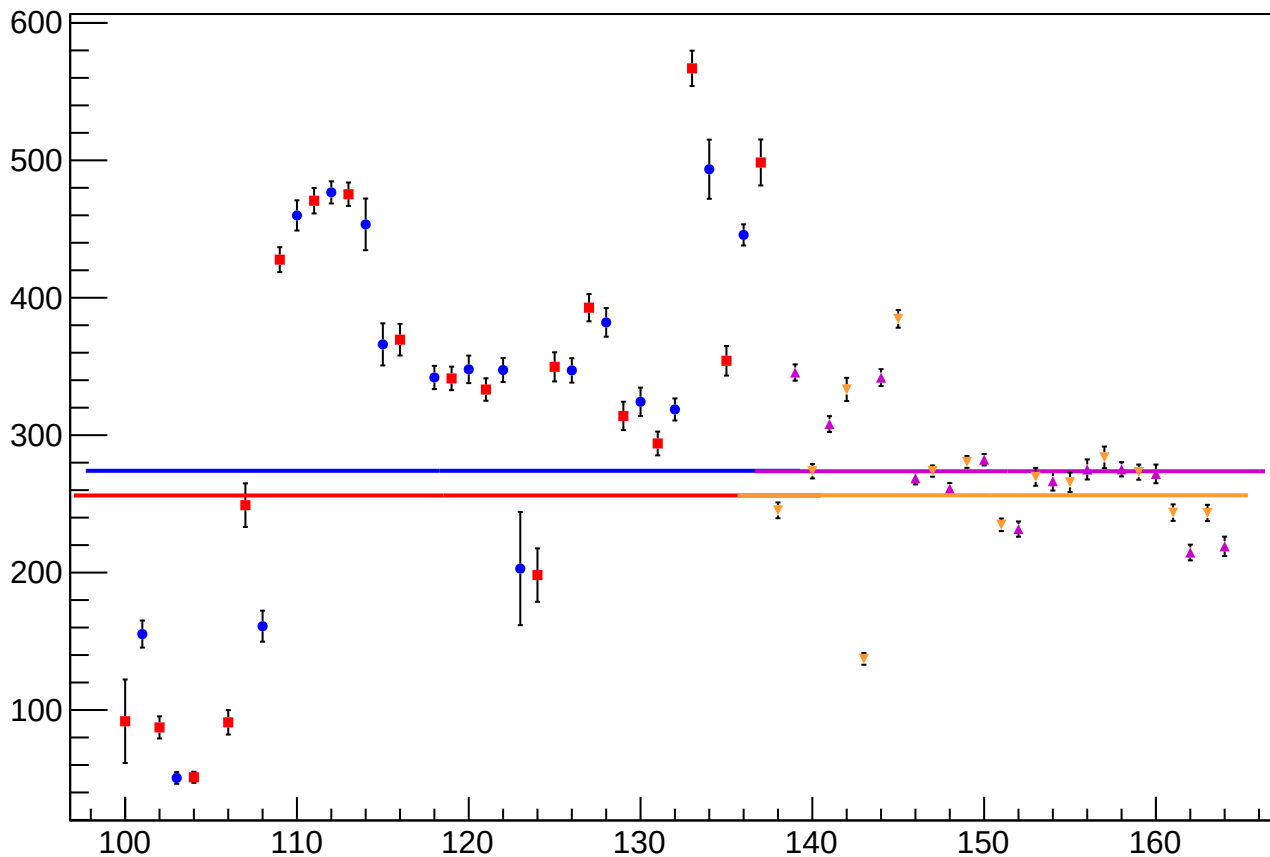
Right:  $3.879 \pm 0.842$   $\chi^2/\text{NDF}: 481.7/35$

In:  $7.419 \pm 0.797$   $\chi^2/\text{NDF}: 468.0/29$

Out:  $7.171 \pm 0.745$   $\chi^2/\text{NDF}: 429.3/32$

All:  $7.287 \pm 0.544$   $\chi^2/\text{NDF}: 897.4/62$

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 274.079 $\pm$ 2.191  $\chi^2$ /NDF: 5112.0/16

Left Out: 256.287 $\pm$ 1.459  $\chi^2$ /NDF:1384.1/13

Right Out: 256.109 $\pm$ 2.080  $\chi^2$ /NDF: 6444.1/18

Left In: 273.749 $\pm$ 1.521  $\chi^2$ /NDF:544.2/12

Left: 264.656 $\pm$ 1.053  $\chi^2$ /NDF: 1996.9/26

Right: 264.628 $\pm$ 1.509  $\chi^2$ /NDF: 11591.4/35

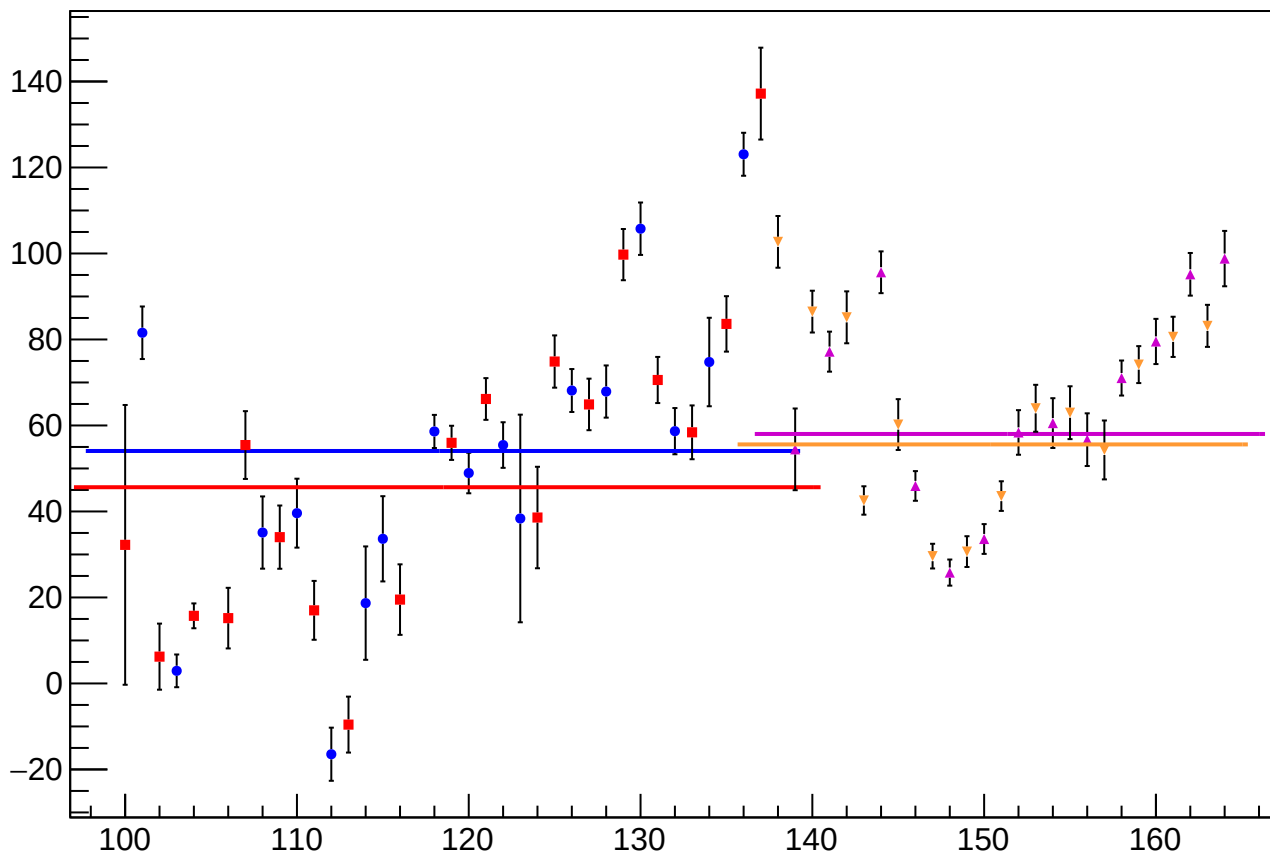
In: 273.856 $\pm$ 1.250  $\chi^2$ /NDF:5656.2/29

Out: 256.228 $\pm$ 1.195  $\chi^2$ /NDF:7828.1/32

All: 264.647 $\pm$ 0.864  $\chi^2$ /NDF: 13588.3/62



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: 55.592 $\pm$ 1.175  $\chi^2$ /NDF:367.3/13

Right Out: 45.637 $\pm$ 1.359  $\chi^2$ /NDF: 530.8/18

Left In: 58.021 $\pm$ 1.260  $\chi^2$ /NDF:375.1/12

Left: 56.722 $\pm$ 0.859  $\chi^2$ /NDF: 744.4/26

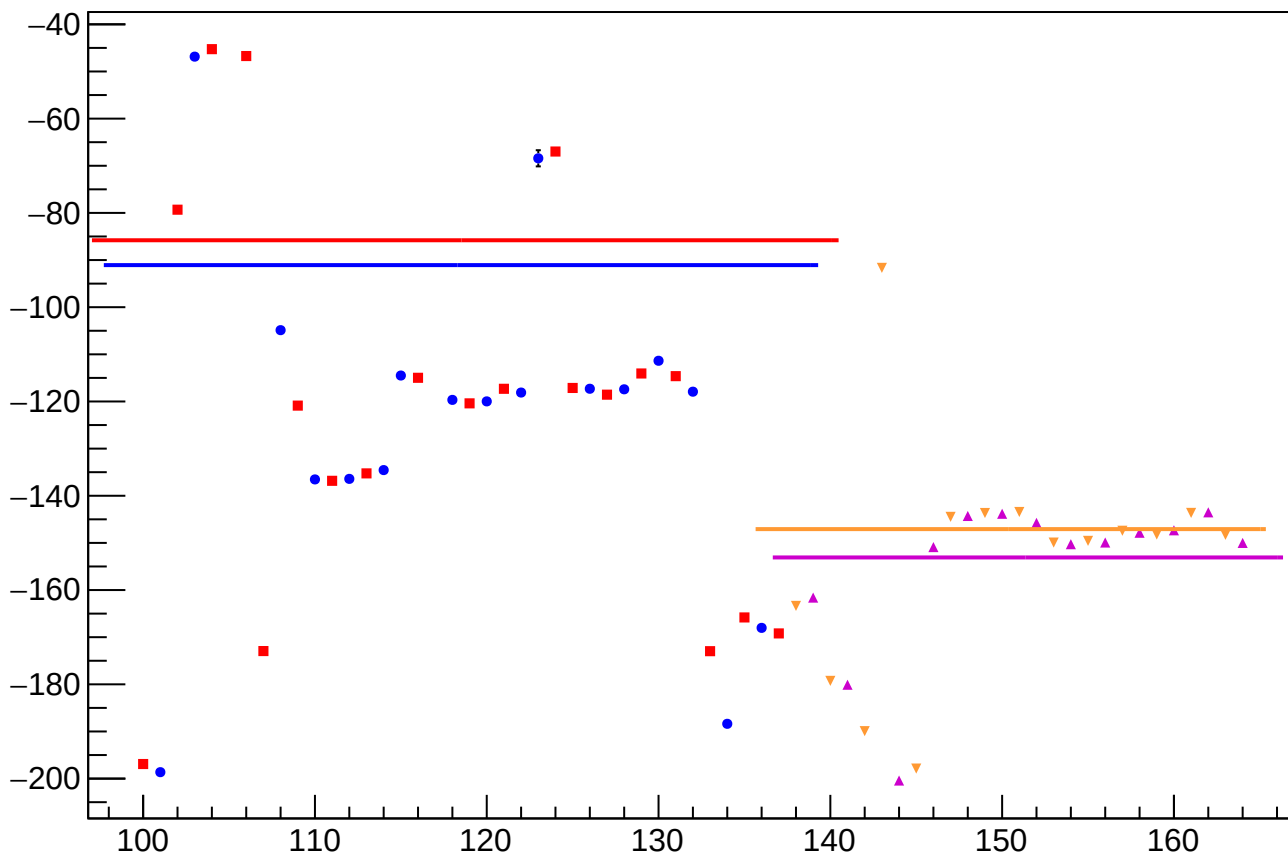
Right: 49.665 $\pm$ 0.982  $\chi^2$ /NDF: 1183.6/35

In: 56.280 $\pm$ 0.942  $\chi^2$ /NDF:1013.8/29

Out: 51.334 $\pm$ 0.889  $\chi^2$ /NDF:928.8/32

All: 53.662 $\pm$ 0.647  $\chi^2$ /NDF: 1957.2/62

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:  $-147.074 \pm 0.059$   $\chi^2/\text{NDF}: 187072.7/13$

Right Out:  $-85.803 \pm 0.065$   $\chi^2/\text{NDF}: 495895.1/18$

Left In:  $-153.086 \pm 0.061$   $\chi^2/\text{NDF}: 55756.2/12$

Left:  $-149.983 \pm 0.042$   $\chi^2/\text{NDF}: 247904.4/26$

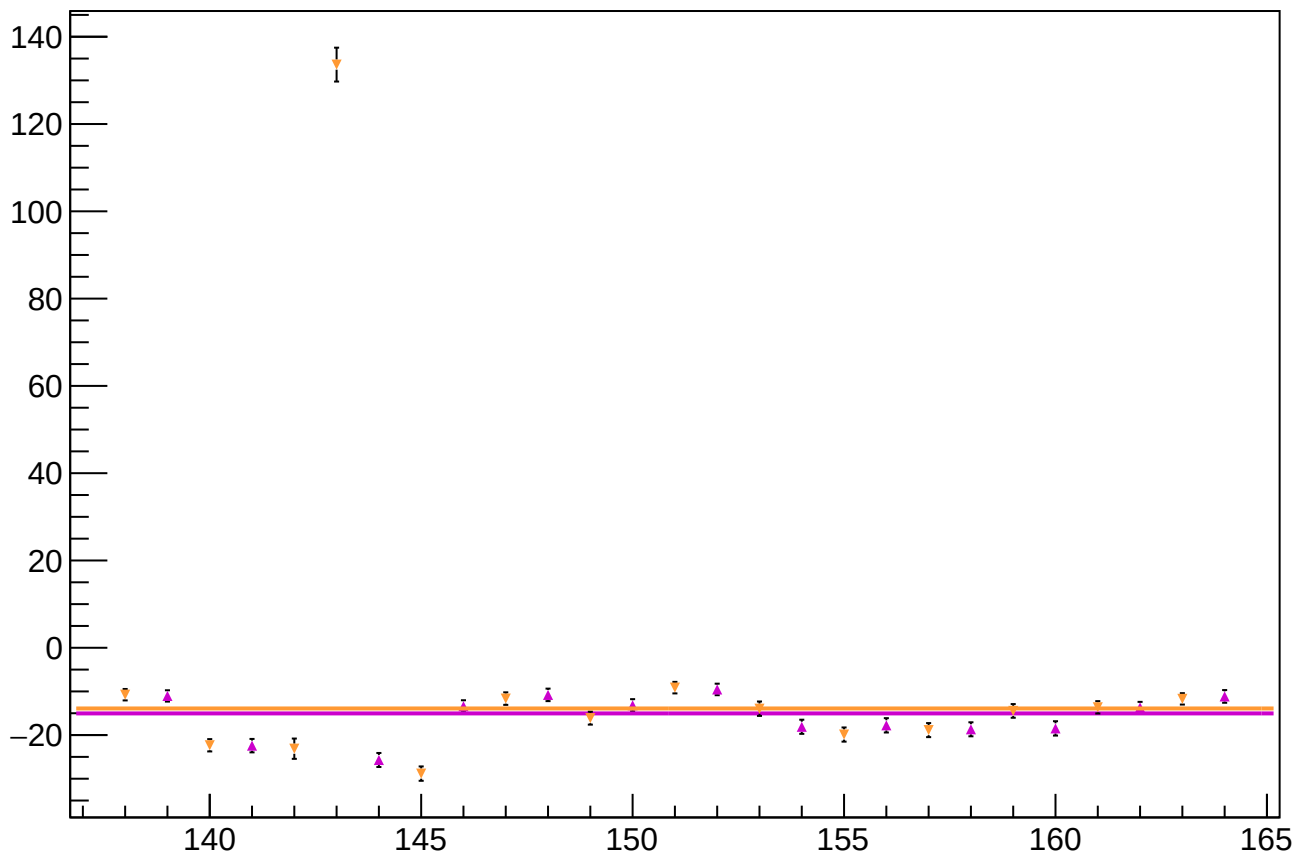
Right:  $-88.339 \pm 0.047$   $\chi^2/\text{NDF}: 1033703.0/35$

In:  $-125.411 \pm 0.045$   $\chi^2/\text{NDF}: 1057339.1/29$

Out:  $-119.573 \pm 0.044$   $\chi^2/\text{NDF}: 1172080.2/32$

All:  $-122.391 \pm 0.031$   $\chi^2/\text{NDF}: 2238084.5/62$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -13.906+/-0.414  $\chi^2/\text{NDF}$ :1627.8/13

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

Left In: -15.038+/-0.405  $\chi^2/\text{NDF}$ :130.1/12

Left: -14.484+/-0.289  $\chi^2/\text{NDF}$ : 1761.7/26

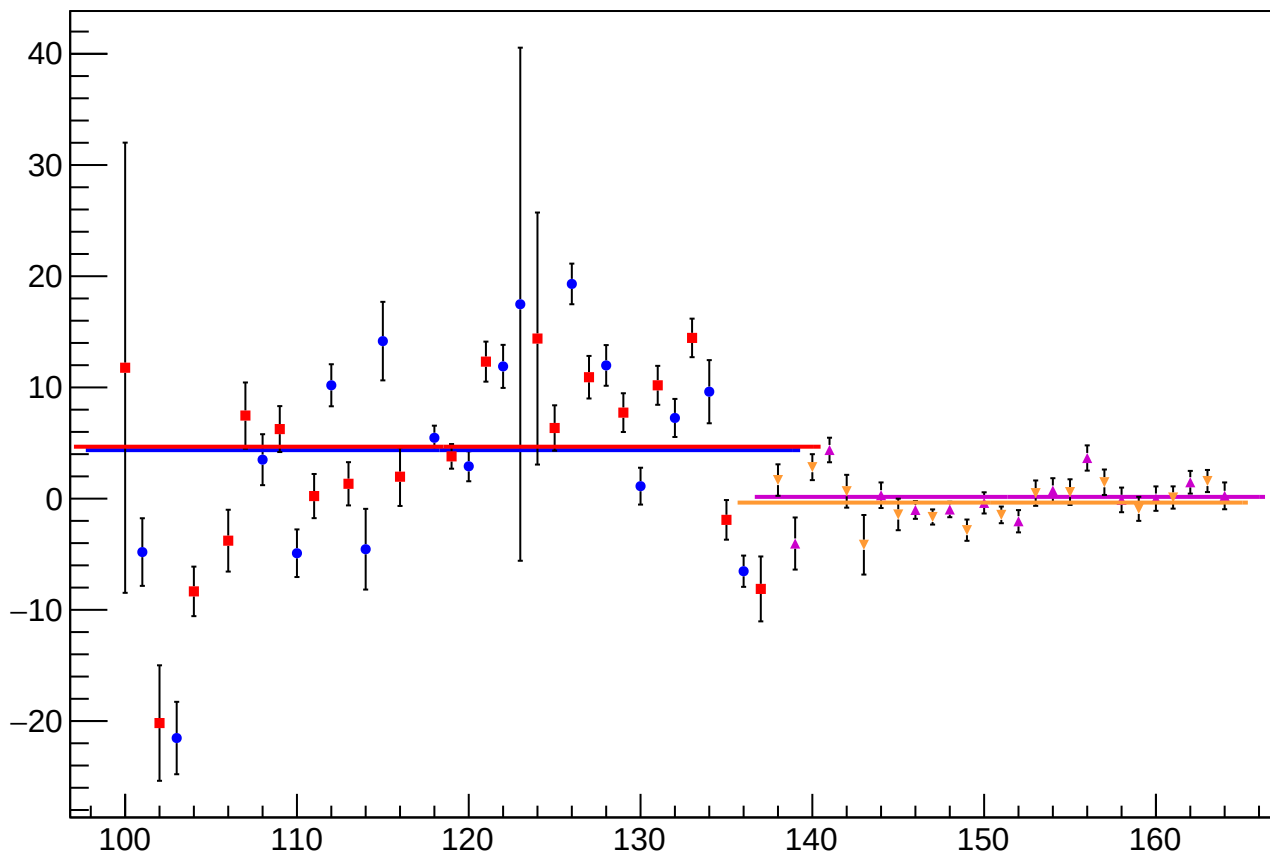
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.038+/-0.405  $\chi^2/\text{NDF}$ :130.1/12

Out: -13.906+/-0.414  $\chi^2/\text{NDF}$ :1627.8/13

All: -14.484+/-0.289  $\chi^2/\text{NDF}$ : 1761.7/26

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.361 $\pm$ 0.464  $\chi^2$ /NDF: 286.5/16

Left Out: -0.356 $\pm$ 0.283  $\chi^2$ /NDF:33.1/13

Right Out: 4.670 $\pm$ 0.474  $\chi^2$ /NDF: 185.4/18

Left In: 0.158 $\pm$ 0.284  $\chi^2$ /NDF:39.2/12

Left: -0.101 $\pm$ 0.201  $\chi^2$ /NDF: 74.0/26

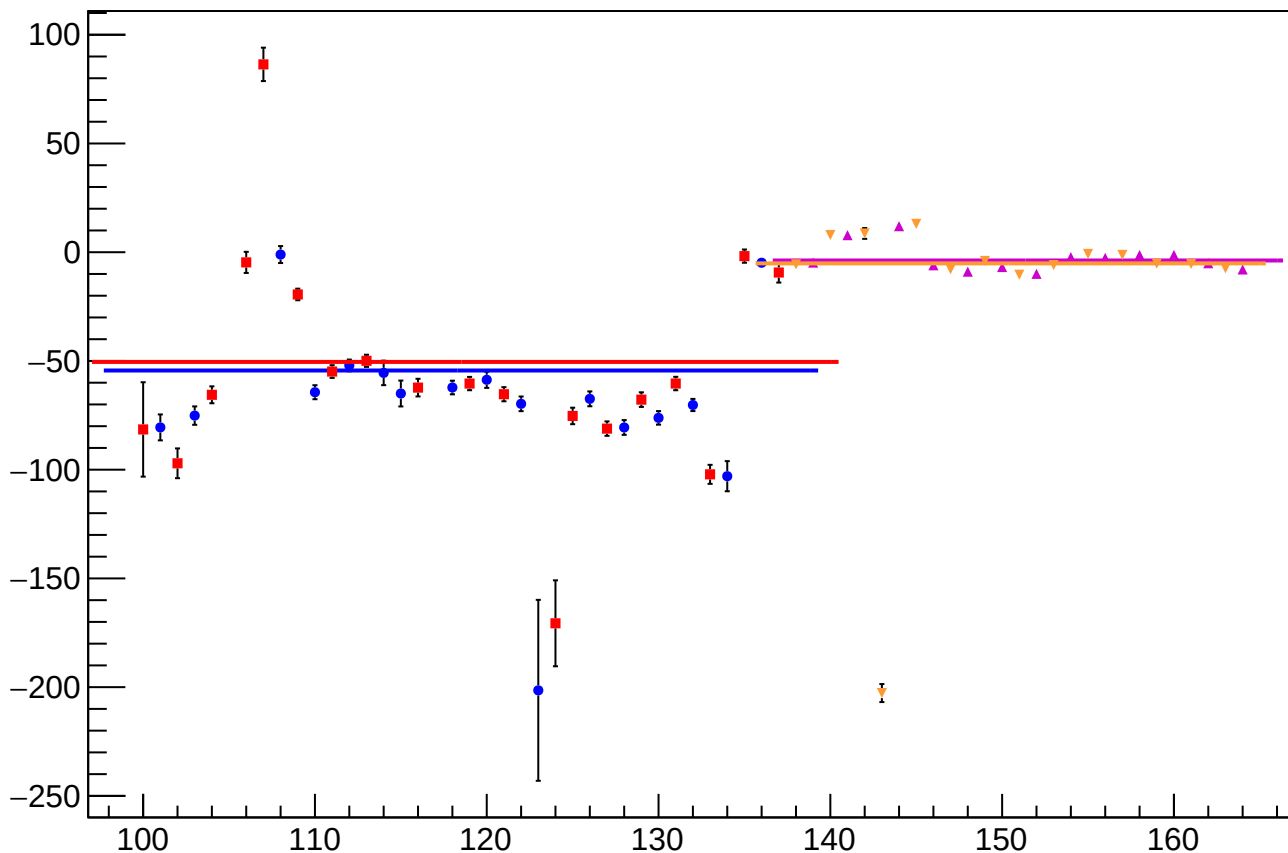
Right: 4.512 $\pm$ 0.332  $\chi^2$ /NDF: 472.1/35

In: 1.304 $\pm$ 0.243  $\chi^2$ /NDF:385.3/29

Out: 0.962 $\pm$ 0.243  $\chi^2$ /NDF:301.4/32

All: 1.133 $\pm$ 0.172  $\chi^2$ /NDF: 687.7/62

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:  $-5.137 \pm 0.403$   $\chi^2/\text{NDF}$ : 2533.5/13

Right Out:  $-50.441 \pm 0.857$   $\chi^2/\text{NDF}$ : 1324.7/18

Left In:  $-3.799 \pm 0.393$   $\chi^2/\text{NDF}$ : 198.3/12

Left:  $-4.451 \pm 0.281$   $\chi^2/\text{NDF}$ : 2737.5/26

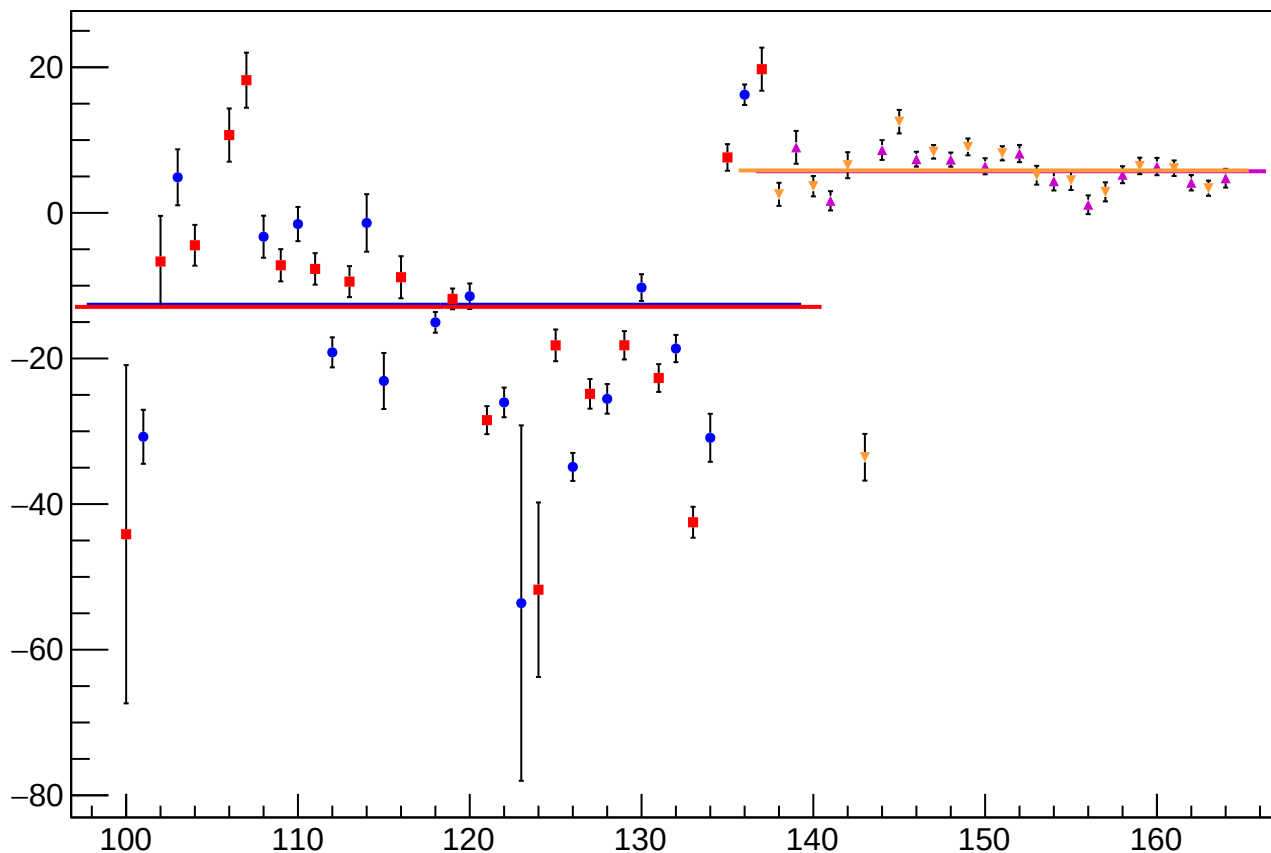
Right:  $-52.405 \pm 0.608$   $\chi^2/\text{NDF}$ : 2348.7/35

In:  $-12.492 \pm 0.358$   $\chi^2/\text{NDF}$ : 4061.2/29

Out:  $-13.332 \pm 0.365$   $\chi^2/\text{NDF}$ : 6145.1/32

All:  $-12.904 \pm 0.255$   $\chi^2/\text{NDF}$ : 10209.1/62

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:  $5.828 \pm 0.334$   $\chi^2/\text{NDF}$ : 207.8/13

Right Out:  $-12.912 \pm 0.538$   $\chi^2/\text{NDF}$ : 730.2/18

Left In:  $5.717 \pm 0.333$   $\chi^2/\text{NDF}$ : 43.1/12

Left:  $5.773 \pm 0.236$   $\chi^2/\text{NDF}$ : 251.0/26

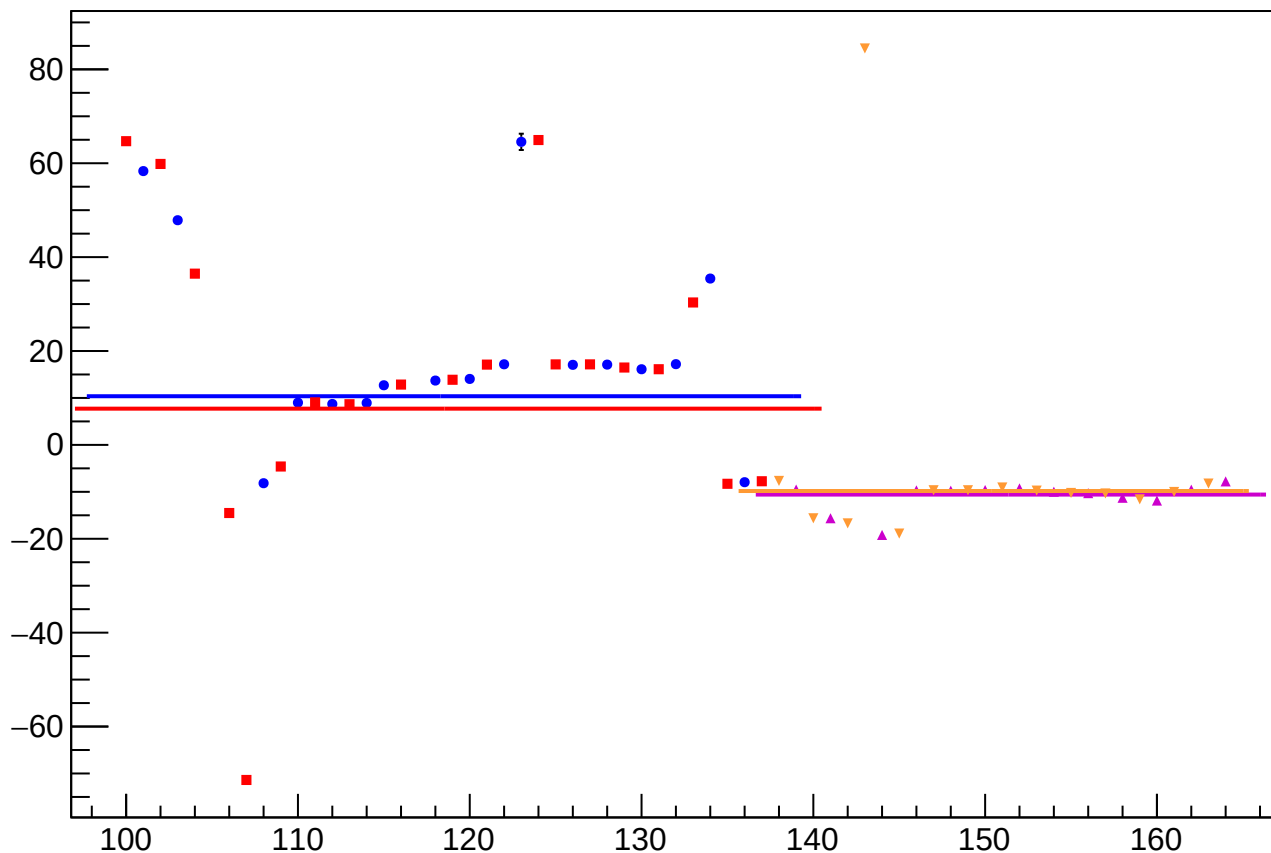
Right:  $-12.762 \pm 0.378$   $\chi^2/\text{NDF}$ : 1518.6/35

In:  $0.520 \pm 0.282$   $\chi^2/\text{NDF}$ : 1688.1/29

Out:  $0.616 \pm 0.284$   $\chi^2/\text{NDF}$ : 1813.2/32

All:  $0.568 \pm 0.200$   $\chi^2/\text{NDF}$ : 3501.4/62

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: -9.827+/-0.016  $\chi^2/\text{NDF}$ : 356891.9/13

Right Out: 7.719+/-0.031  $\chi^2/\text{NDF}$ : 545085.7/18

Left In: -10.585+/-0.015  $\chi^2/\text{NDF}$ : 24335.4/12

Left: -10.215+/-0.011  $\chi^2/\text{NDF}$ : 382417.0/26

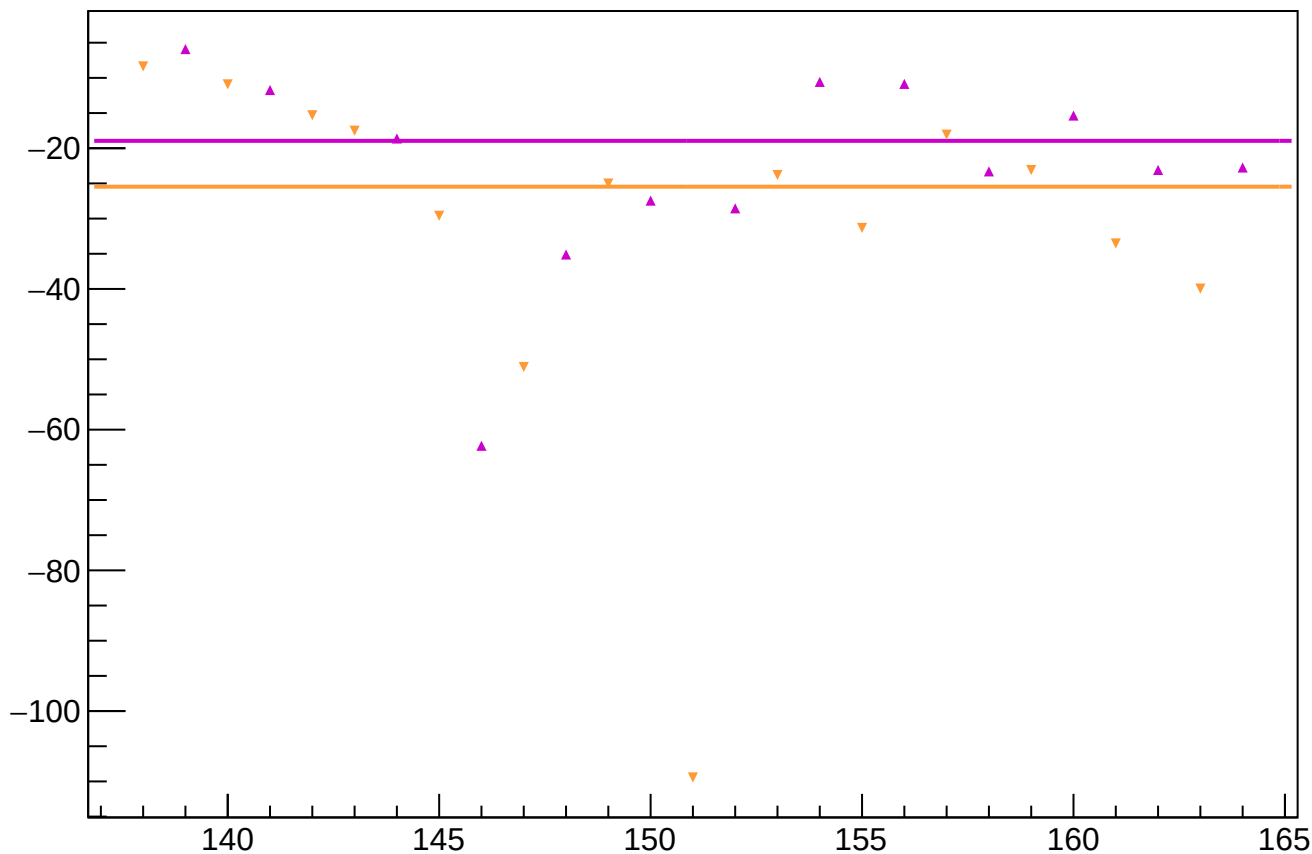
Right: 9.073+/-0.022  $\chi^2/\text{NDF}$ : 929756.2/35

In: -6.354+/-0.014  $\chi^2/\text{NDF}$ : 781009.2/29

Out: -6.283+/-0.014  $\chi^2/\text{NDF}$ : 1153471.2/32

All: -6.320+/-0.010  $\chi^2/\text{NDF}$ : 1934493.7/62

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -25.466+/-0.069  $\chi^2/\text{NDF}$ :56399.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.950+/-0.057  $\chi^2/\text{NDF}$ :37852.3/12

Left: -21.620+/-0.044  $\chi^2/\text{NDF}$ : 99526.3/26

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

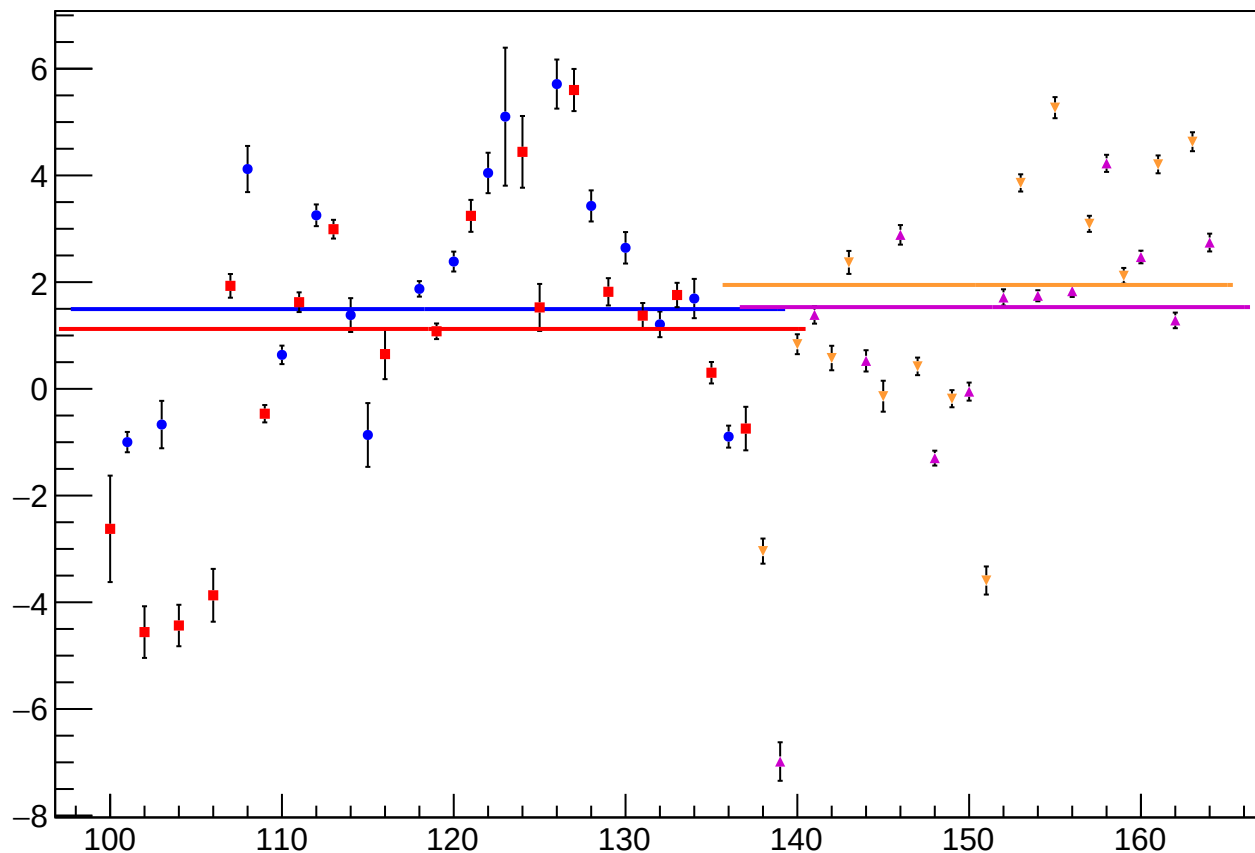
In: -18.950+/-0.057  $\chi^2/\text{NDF}$ :37852.3/12

Out: -25.466+/-0.069  $\chi^2/\text{NDF}$ :56399.6/13

All: -21.620+/-0.044  $\chi^2/\text{NDF}$ : 99526.3/26



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.495 \pm 0.061$   $\chi^2/\text{NDF}: 708.8/16$

Left Out:  $1.947 \pm 0.049$   $\chi^2/\text{NDF}: 2173.5/13$

Right Out:  $1.123 \pm 0.058$   $\chi^2/\text{NDF}: 946.5/18$

Left In:  $1.532 \pm 0.041$   $\chi^2/\text{NDF}: 1549.2/12$

Left:  $1.701 \pm 0.031$   $\chi^2/\text{NDF}: 3764.7/26$

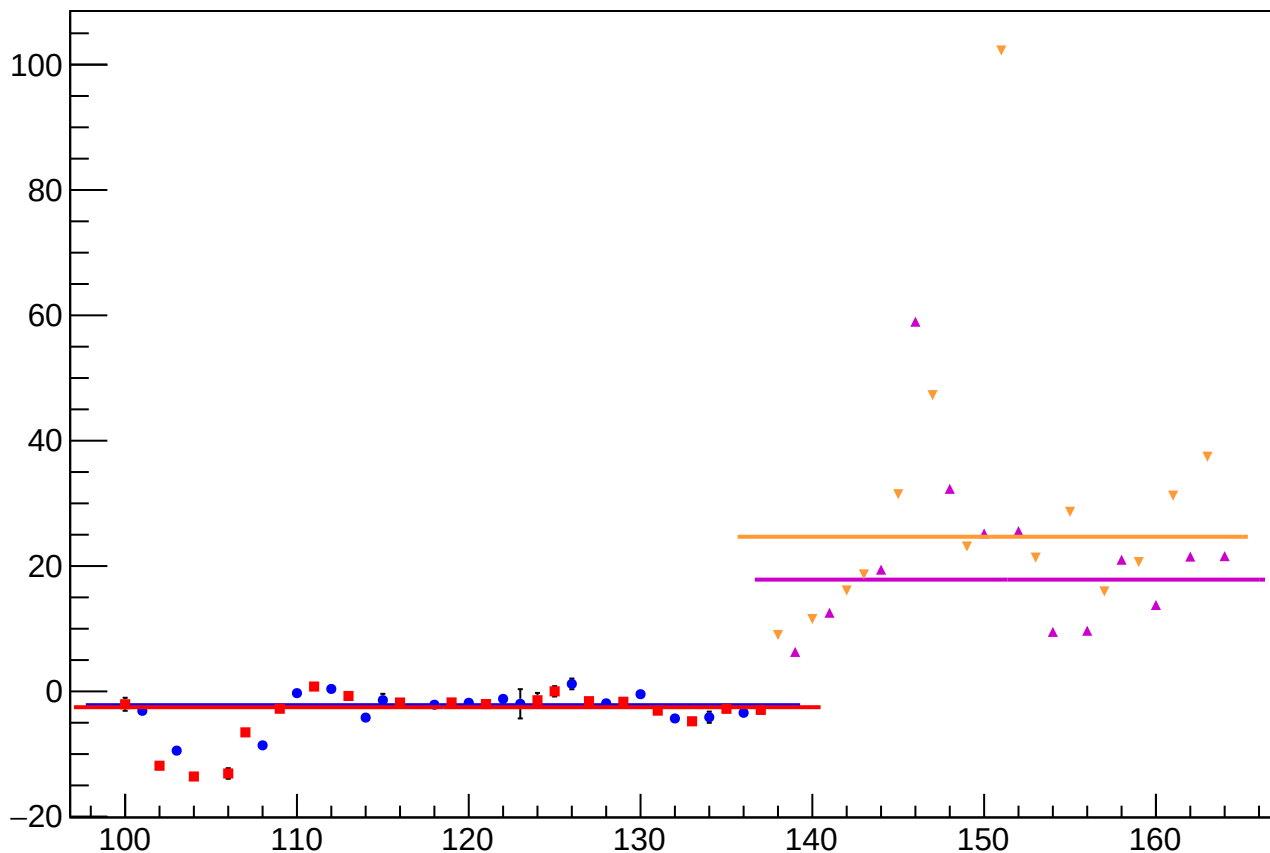
Right:  $1.300 \pm 0.042$   $\chi^2/\text{NDF}: 1674.8/35$

In:  $1.521 \pm 0.034$   $\chi^2/\text{NDF}: 2258.3/29$

Out:  $1.603 \pm 0.038$   $\chi^2/\text{NDF}: 3236.8/32$

All:  $1.558 \pm 0.025$   $\chi^2/\text{NDF}: 5497.7/62$

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.200 \pm 0.111$   $\chi^2/\text{NDF}$ : 461.0/16

Left Out:  $24.675 \pm 0.067$   $\chi^2/\text{NDF}$ : 50474.9/13

Right Out:  $-2.520 \pm 0.099$   $\chi^2/\text{NDF}$ : 903.3/18

Left In:  $17.834 \pm 0.055$   $\chi^2/\text{NDF}$ : 35711.9/12

Left:  $20.582 \pm 0.043$   $\chi^2/\text{NDF}$ : 92368.1/26

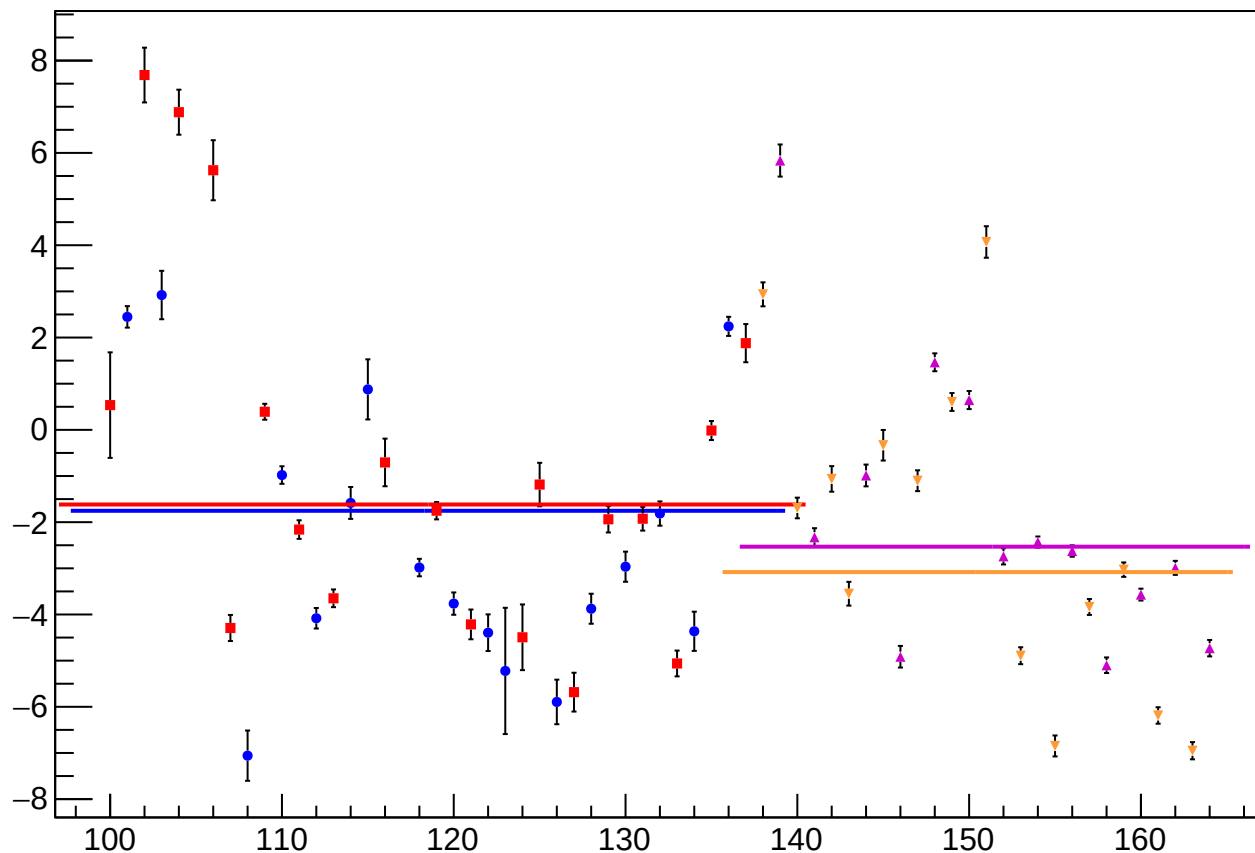
Right:  $-2.378 \pm 0.074$   $\chi^2/\text{NDF}$ : 1368.9/35

In:  $13.844 \pm 0.049$   $\chi^2/\text{NDF}$ : 62457.8/29

Out:  $16.073 \pm 0.056$   $\chi^2/\text{NDF}$ : 103020.9/32

All:  $14.825 \pm 0.037$   $\chi^2/\text{NDF}$ : 166376.5/62

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:  $-3.081 \pm 0.057$   $\chi^2/\text{NDF}$ : 2706.3/13

Right Out:  $-1.617 \pm 0.066$   $\chi^2/\text{NDF}$ : 1487.5/18

Left In:  $-2.531 \pm 0.047$   $\chi^2/\text{NDF}$ : 1874.3/12

Left:  $-2.753 \pm 0.036$   $\chi^2/\text{NDF}$ : 4636.8/26

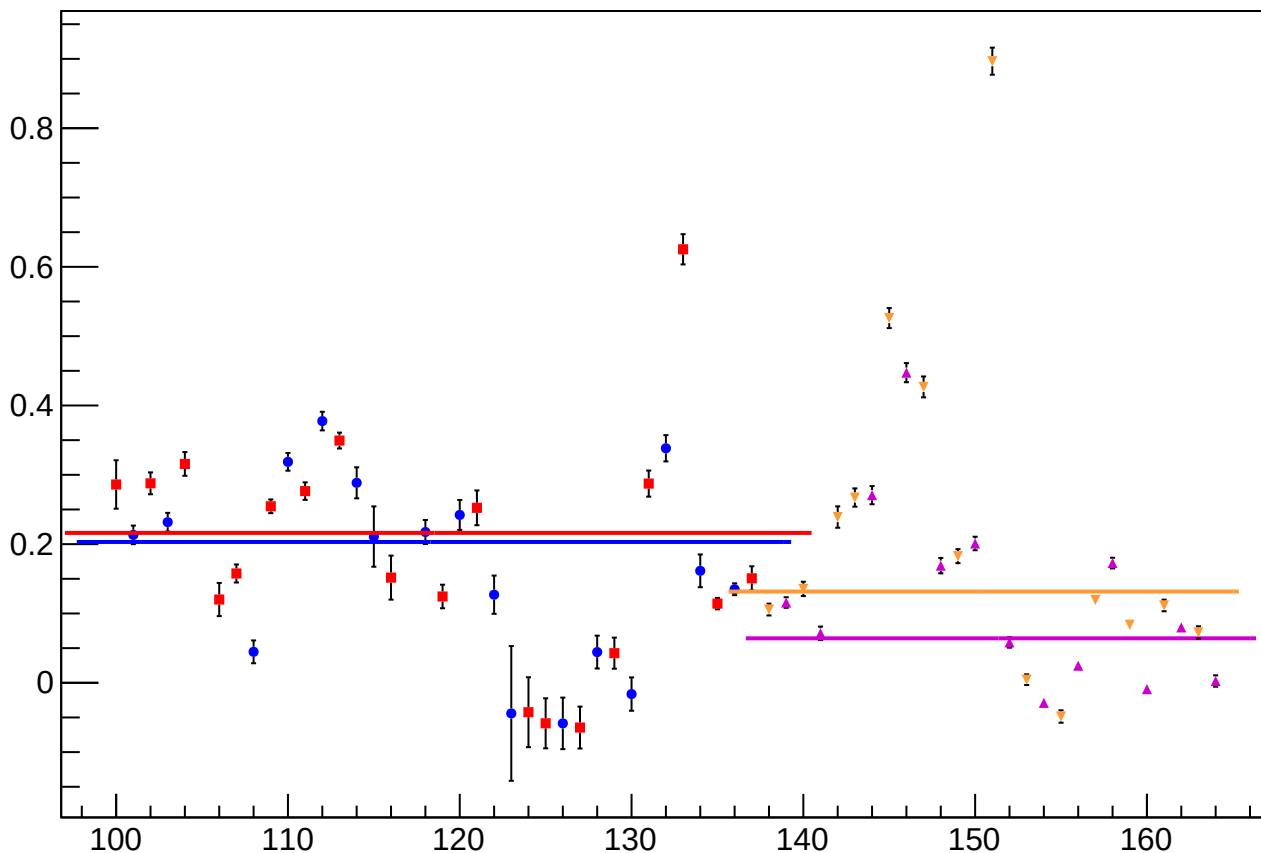
Right:  $-1.681 \pm 0.048$   $\chi^2/\text{NDF}$ : 2834.6/35

In:  $-2.294 \pm 0.039$   $\chi^2/\text{NDF}$ : 3304.4/29

Out:  $-2.456 \pm 0.043$   $\chi^2/\text{NDF}$ : 4478.2/32

All:  $-2.367 \pm 0.029$   $\chi^2/\text{NDF}$ : 7790.6/62

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.203 \pm 0.004$   $\chi^2/\text{NDF}$ : 677.2/16

Left Out:  $0.132 \pm 0.003$   $\chi^2/\text{NDF}$ : 3626.9/13

Right Out:  $0.216 \pm 0.004$   $\chi^2/\text{NDF}$ : 1067.3/18

Left In:  $0.064 \pm 0.002$   $\chi^2/\text{NDF}$ : 2182.3/12

Left:  $0.090 \pm 0.002$   $\chi^2/\text{NDF}$ : 6235.0/26

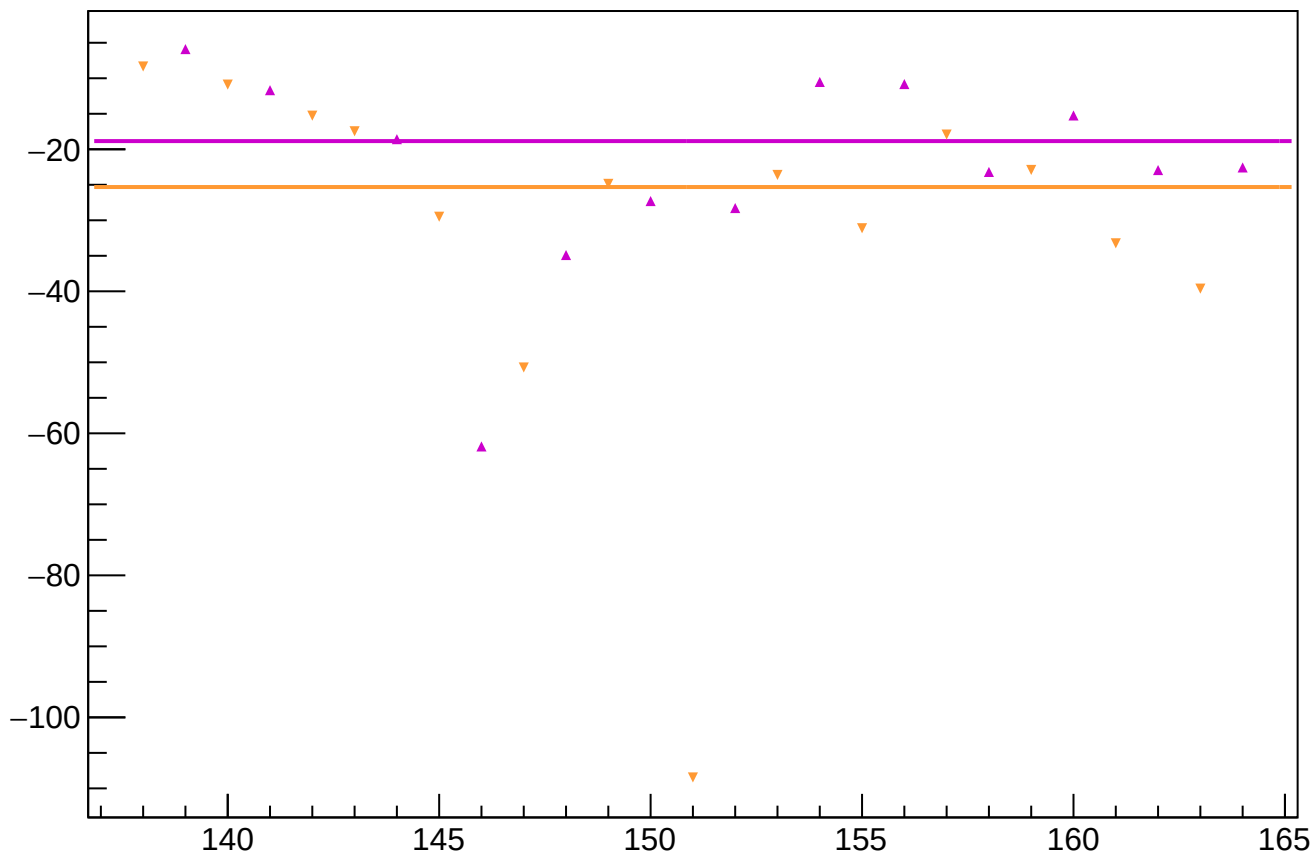
Right:  $0.210 \pm 0.003$   $\chi^2/\text{NDF}$ : 1750.0/35

In:  $0.091 \pm 0.002$   $\chi^2/\text{NDF}$ : 3768.9/29

Out:  $0.159 \pm 0.002$   $\chi^2/\text{NDF}$ : 5049.0/32

All:  $0.121 \pm 0.001$   $\chi^2/\text{NDF}$ : 9406.1/62

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: -25.317+/-0.068  $\chi^2/\text{NDF}$ :56206.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.848+/-0.057  $\chi^2/\text{NDF}$ :37764.7/12

Left: -21.499+/-0.044  $\chi^2/\text{NDF}$ : 99234.1/26

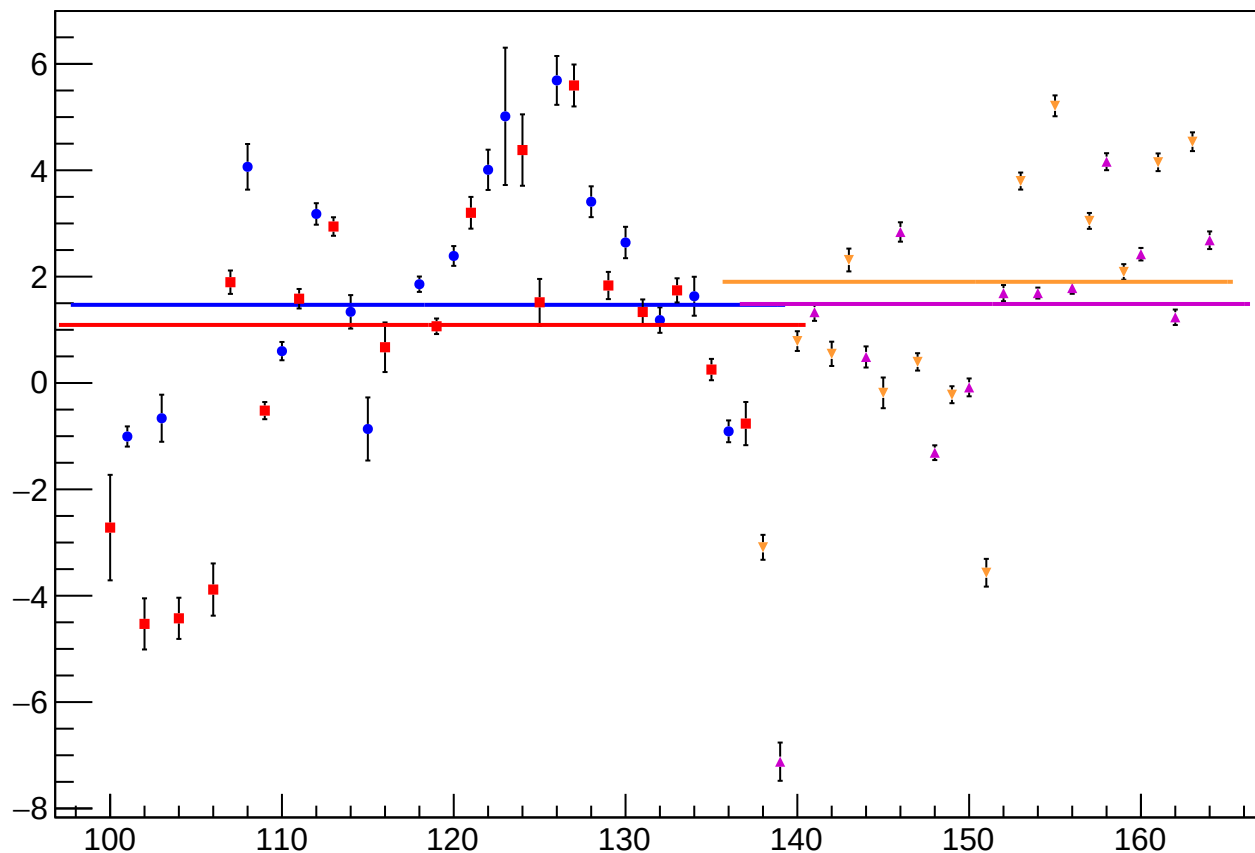
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.848+/-0.057  $\chi^2/\text{NDF}$ :37764.7/12

Out: -25.317+/-0.068  $\chi^2/\text{NDF}$ :56206.3/13

All: -21.499+/-0.044  $\chi^2/\text{NDF}$ : 99234.1/26

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.470 $\pm$ 0.061  $\chi^2$ /NDF: 707.9/16

Left Out: 1.903 $\pm$ 0.049  $\chi^2$ /NDF:2173.0/13

Right Out: 1.092 $\pm$ 0.058  $\chi^2$ /NDF: 952.1/18

Left In: 1.486 $\pm$ 0.041  $\chi^2$ /NDF:1561.0/12

Left: 1.656 $\pm$ 0.031  $\chi^2$ /NDF: 3776.9/26

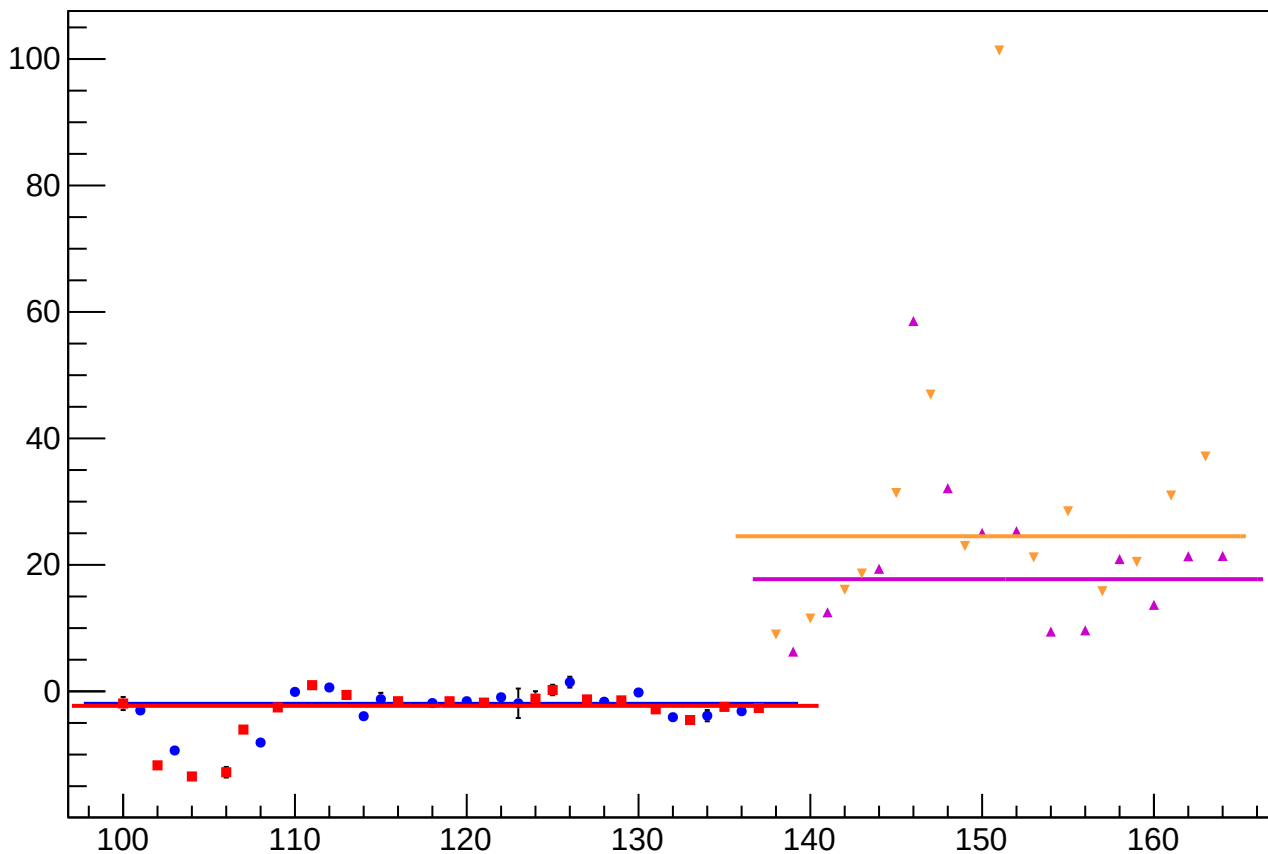
Right: 1.272 $\pm$ 0.042  $\chi^2$ /NDF: 1680.2/35

In: 1.481 $\pm$ 0.034  $\chi^2$ /NDF:2268.9/29

Out: 1.565 $\pm$ 0.037  $\chi^2$ /NDF:3239.3/32

All: 1.518 $\pm$ 0.025  $\chi^2$ /NDF: 5511.0/62

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:  $24.525 \pm 0.067$   $\chi^2/\text{NDF}$ : 50329.9/13

Right Out:  $-2.294 \pm 0.098$   $\chi^2/\text{NDF}$ : 906.6/18

Left In:  $17.737 \pm 0.055$   $\chi^2/\text{NDF}$ : 35640.7/12

Left:  $20.465 \pm 0.042$   $\chi^2/\text{NDF}$ : 92132.5/26

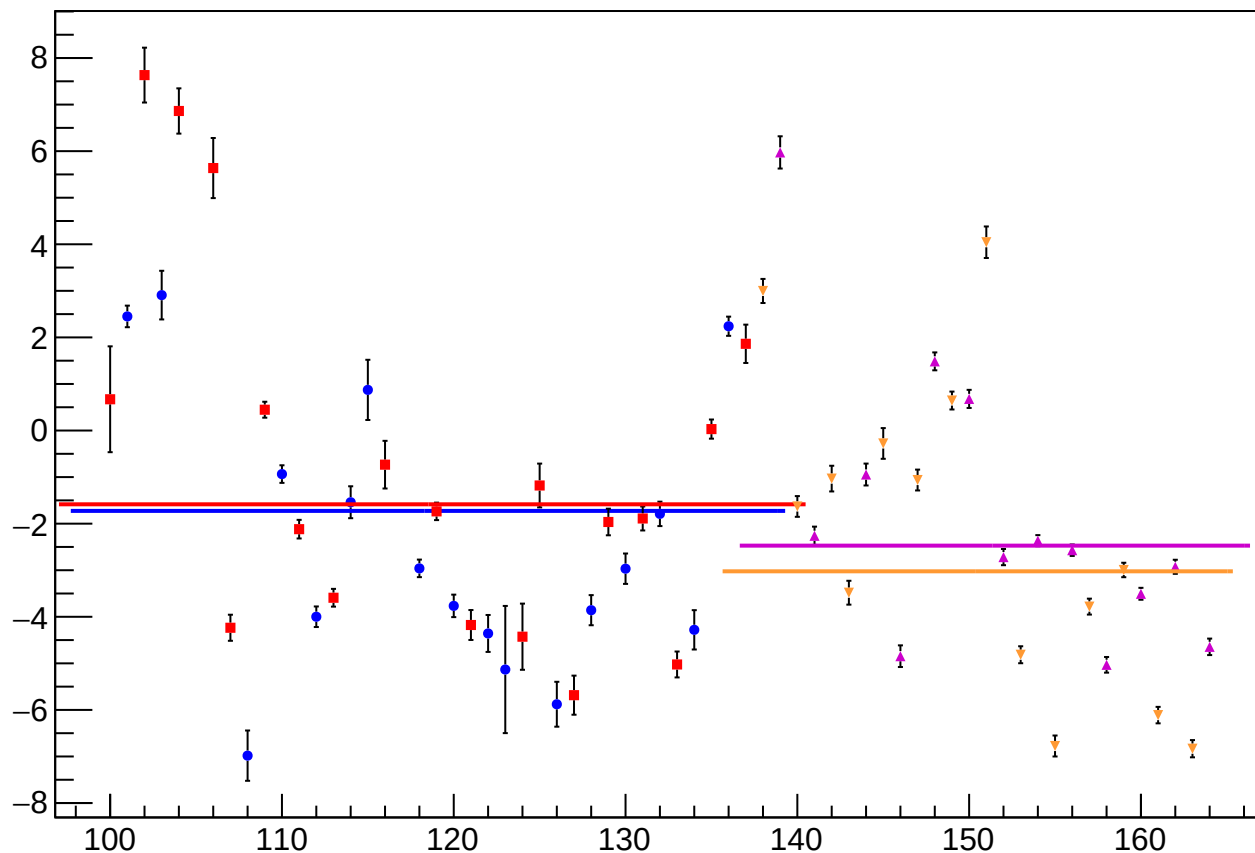
Right:  $-2.153 \pm 0.073$   $\chi^2/\text{NDF}$ : 1375.0/35

In:  $13.817 \pm 0.049$   $\chi^2/\text{NDF}$ : 61818.0/29

Out:  $16.054 \pm 0.055$   $\chi^2/\text{NDF}$ : 102029.5/32

All:  $14.802 \pm 0.037$   $\chi^2/\text{NDF}$ : 164762.6/62

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:  $-3.023 \pm 0.056$   $\chi^2/\text{NDF}$ : 2704.5/13

Right Out:  $-1.584 \pm 0.065$   $\chi^2/\text{NDF}$ : 1492.8/18

Left In:  $-2.472 \pm 0.046$   $\chi^2/\text{NDF}$ : 1887.9/12

Left:  $-2.694 \pm 0.036$   $\chi^2/\text{NDF}$ : 4649.6/26

Right:  $-1.650 \pm 0.048$   $\chi^2/\text{NDF}$ : 2836.5/35

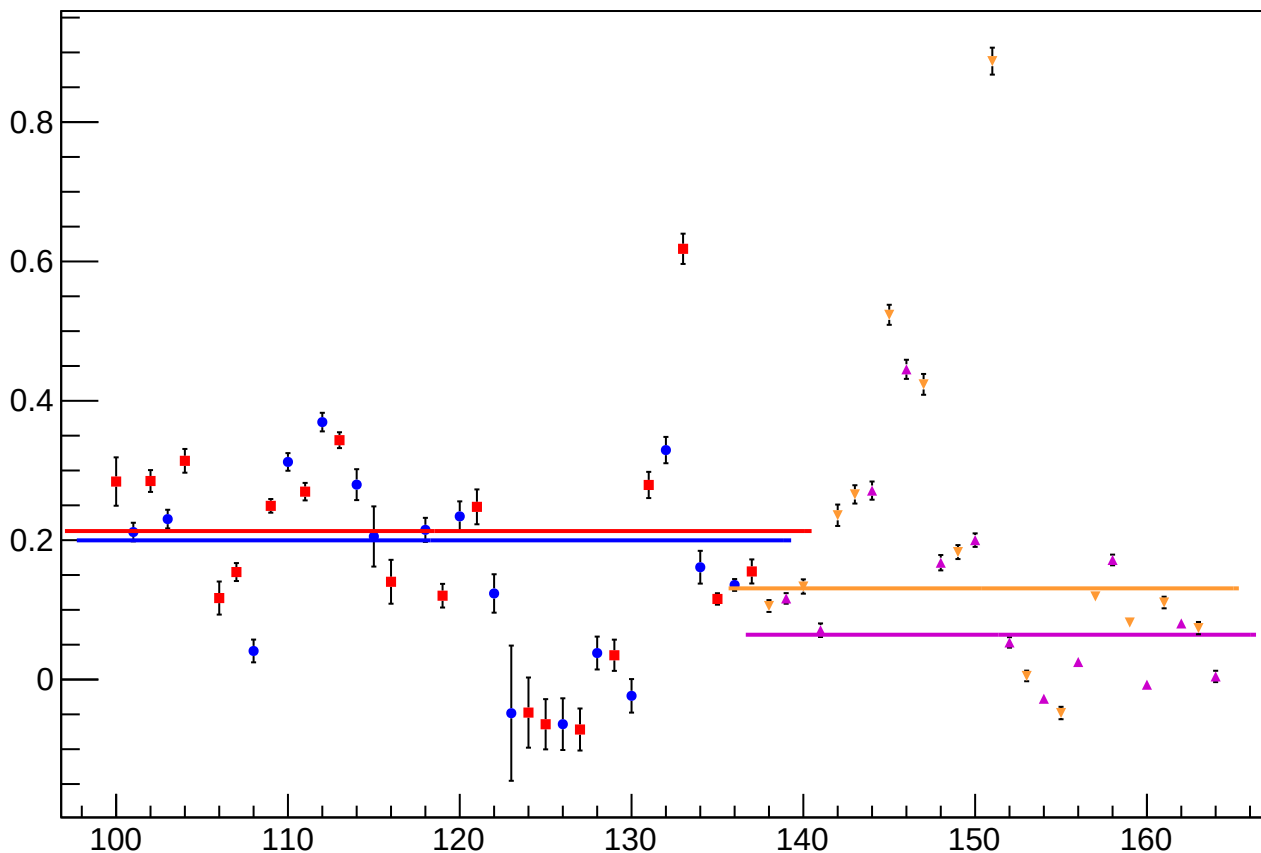
In:  $-2.245 \pm 0.039$   $\chi^2/\text{NDF}$ : 3308.5/29

Out:  $-2.411 \pm 0.043$   $\chi^2/\text{NDF}$ : 4475.2/32

All:  $-2.319 \pm 0.029$   $\chi^2/\text{NDF}$ : 7791.9/62



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:  $0.131 \pm 0.003$   $\chi^2/\text{NDF}$ : 3618.1/13

Right Out:  $0.213 \pm 0.004$   $\chi^2/\text{NDF}$ : 1050.9/18

Left In:  $0.064 \pm 0.002$   $\chi^2/\text{NDF}$ : 2173.3/12

Left:  $0.090 \pm 0.002$   $\chi^2/\text{NDF}$ : 6210.6/26

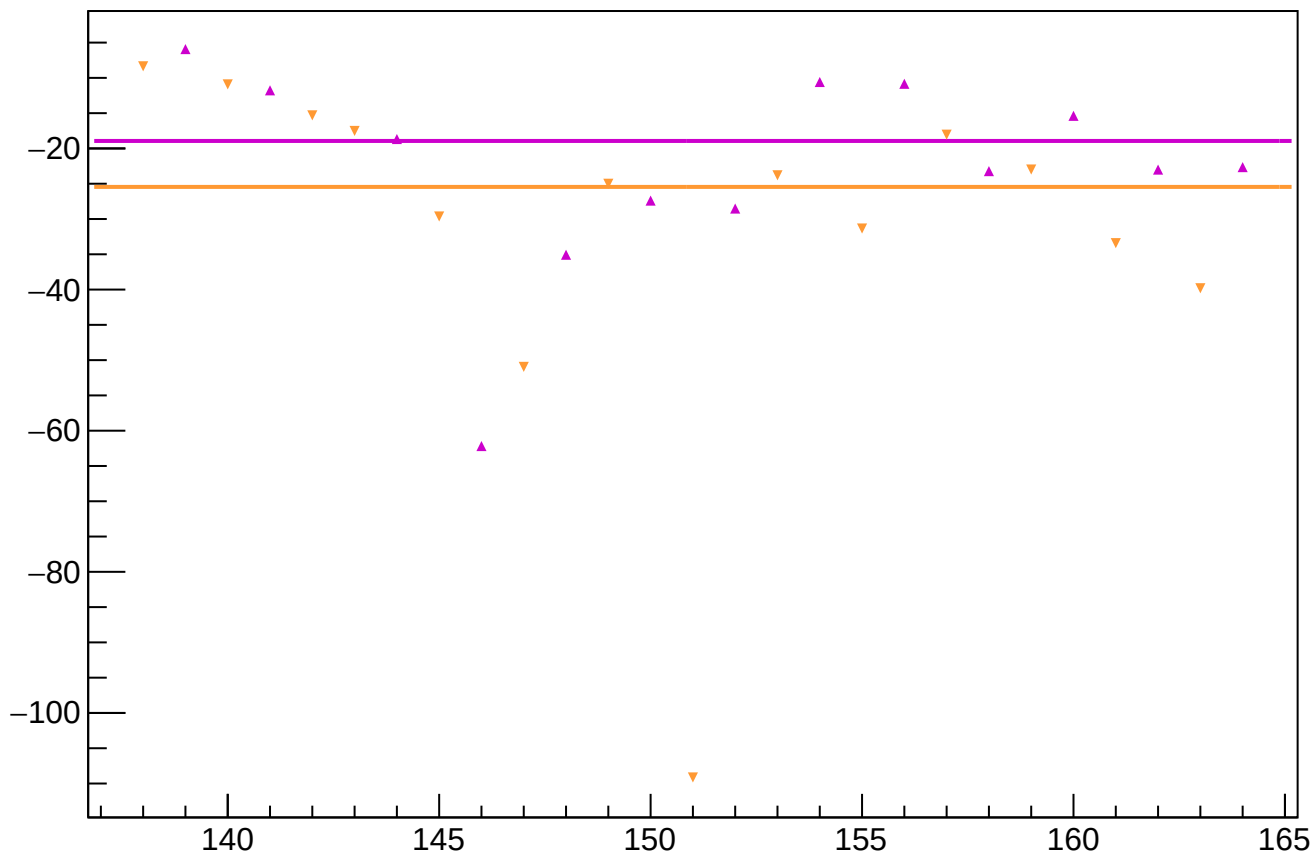
Right:  $0.207 \pm 0.003$   $\chi^2/\text{NDF}$ : 1719.2/35

In:  $0.091 \pm 0.002$   $\chi^2/\text{NDF}$ : 3708.1/29

Out:  $0.157 \pm 0.002$   $\chi^2/\text{NDF}$ : 5008.1/32

All:  $0.120 \pm 0.001$   $\chi^2/\text{NDF}$ : 9293.8/62

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: -25.451+/-0.069  $\chi^2/\text{NDF}$ :56330.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.938+/-0.057  $\chi^2/\text{NDF}$ :37821.9/12

Left: -21.605+/-0.044  $\chi^2/\text{NDF}$ : 99444.3/26

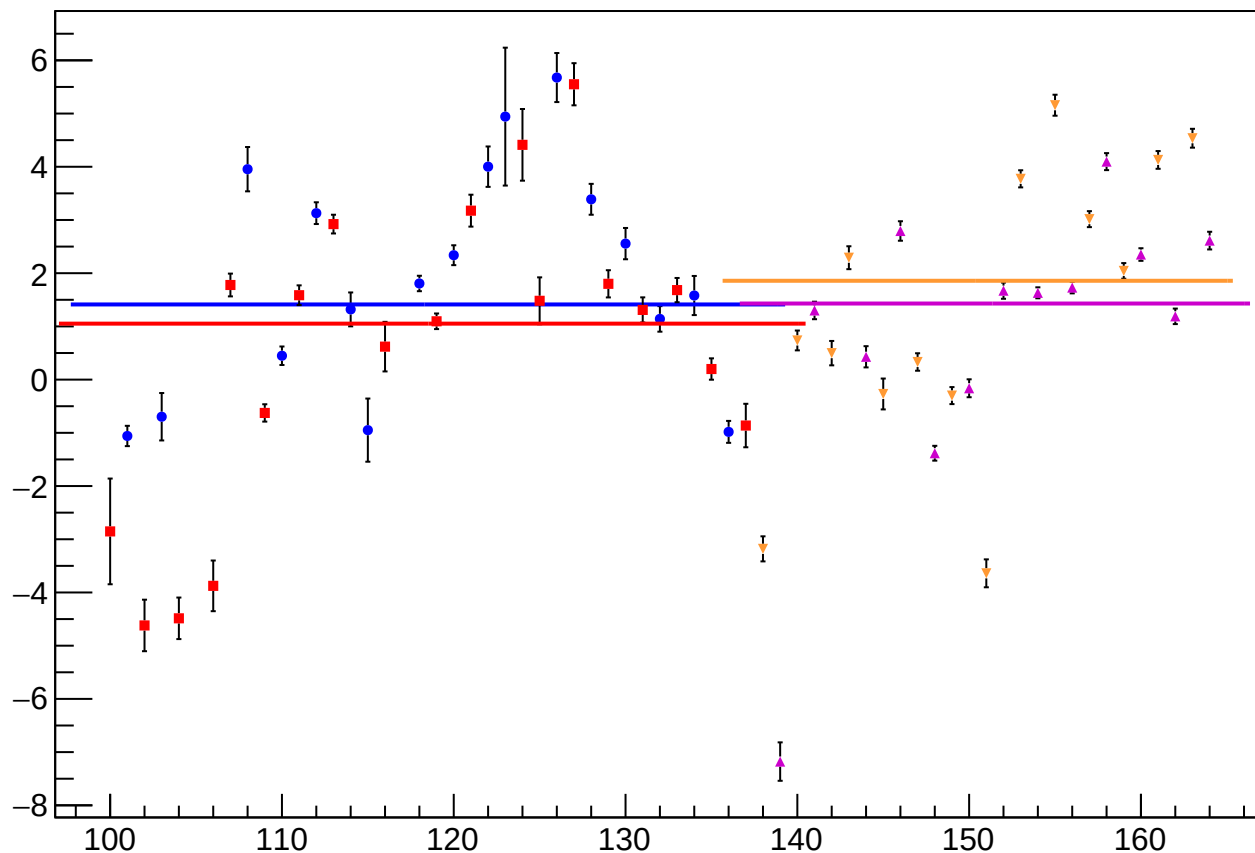
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.938+/-0.057  $\chi^2/\text{NDF}$ :37821.9/12

Out: -25.451+/-0.069  $\chi^2/\text{NDF}$ :56330.1/13

All: -21.605+/-0.044  $\chi^2/\text{NDF}$ : 99444.3/26

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:  $1.858 \pm 0.049$   $\chi^2/\text{NDF}$ : 2191.4/13

Right Out:  $1.052 \pm 0.058$   $\chi^2/\text{NDF}$ : 963.3/18

Left In:  $1.430 \pm 0.041$   $\chi^2/\text{NDF}$ : 1553.0/12

Left:  $1.604 \pm 0.031$   $\chi^2/\text{NDF}$ : 3789.2/26

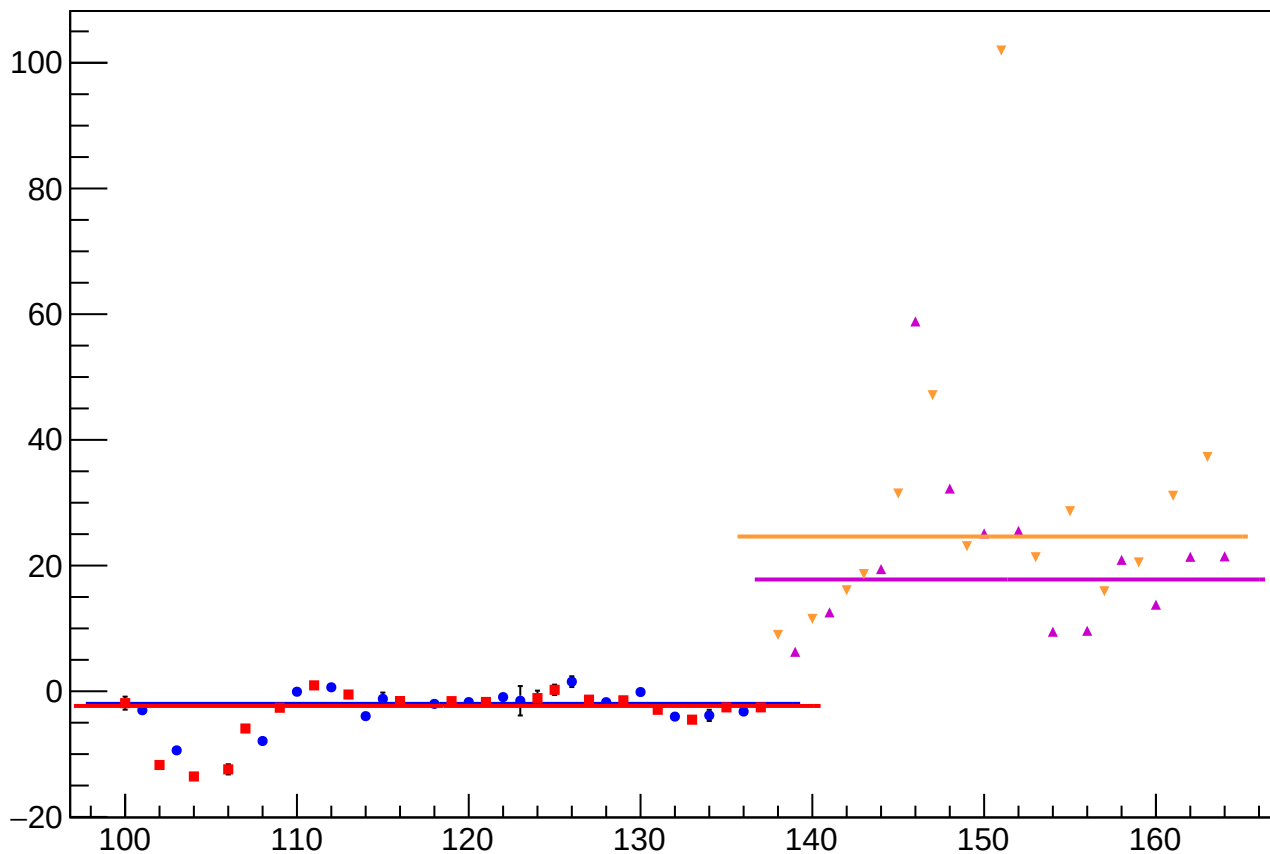
Right:  $1.223 \pm 0.042$   $\chi^2/\text{NDF}$ : 1695.5/35

In:  $1.425 \pm 0.034$   $\chi^2/\text{NDF}$ : 2266.9/29

Out:  $1.521 \pm 0.038$   $\chi^2/\text{NDF}$ : 3266.8/32

All:  $1.468 \pm 0.025$   $\chi^2/\text{NDF}$ : 5537.3/62

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:  $24.622 \pm 0.067$   $\chi^2/\text{NDF}$ : 50435.5/13

Right Out:  $-2.336 \pm 0.099$   $\chi^2/\text{NDF}$ : 901.2/18

Left In:  $17.787 \pm 0.055$   $\chi^2/\text{NDF}$ : 35707.5/12

Left:  $20.531 \pm 0.043$   $\chi^2/\text{NDF}$ : 92343.3/26

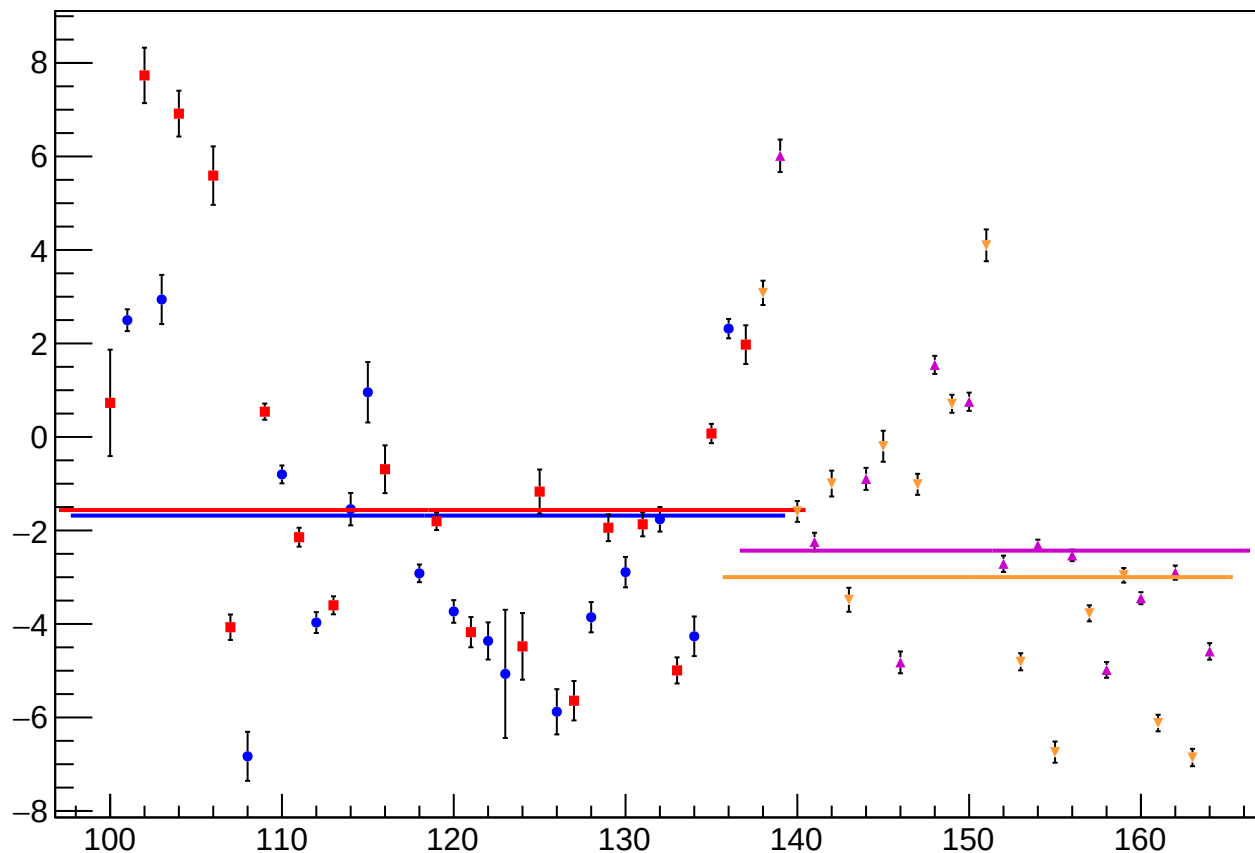
Right:  $-2.190 \pm 0.074$   $\chi^2/\text{NDF}$ : 1369.4/35

In:  $13.863 \pm 0.049$   $\chi^2/\text{NDF}$ : 61837.2/29

Out:  $16.115 \pm 0.056$   $\chi^2/\text{NDF}$ : 102180.1/32

All:  $14.854 \pm 0.037$   $\chi^2/\text{NDF}$ : 164937.9/62

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:  $-2.998 \pm 0.057$   $\chi^2/\text{NDF}$ : 2729.1/13

Right Out:  $-1.563 \pm 0.066$   $\chi^2/\text{NDF}$ : 1504.7/18

Left In:  $-2.432 \pm 0.046$   $\chi^2/\text{NDF}$ : 1879.7/12

Left:  $-2.660 \pm 0.036$   $\chi^2/\text{NDF}$ : 4668.7/26

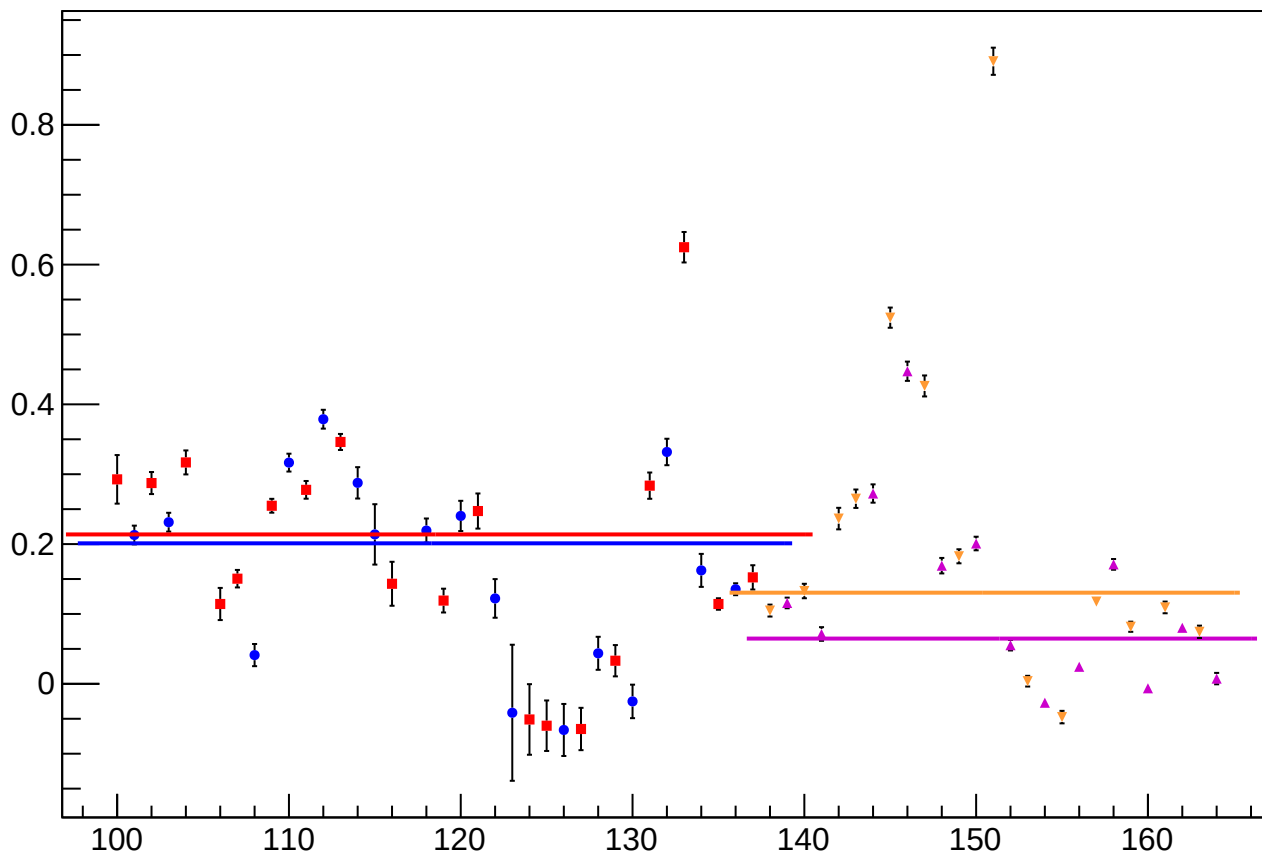
Right:  $-1.619 \pm 0.048$   $\chi^2/\text{NDF}$ : 2854.1/35

In:  $-2.204 \pm 0.039$   $\chi^2/\text{NDF}$ : 3306.7/29

Out:  $-2.387 \pm 0.043$   $\chi^2/\text{NDF}$ : 4508.0/32

All:  $-2.286 \pm 0.029$   $\chi^2/\text{NDF}$ : 7824.7/62

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:  $0.130 \pm 0.003$   $\chi^2/\text{NDF}$ : 3609.9/13

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1083.1/18

Left In:  $0.065 \pm 0.002$   $\chi^2/\text{NDF}$ : 2158.8/12

Left:  $0.090 \pm 0.002$   $\chi^2/\text{NDF}$ : 6174.0/26

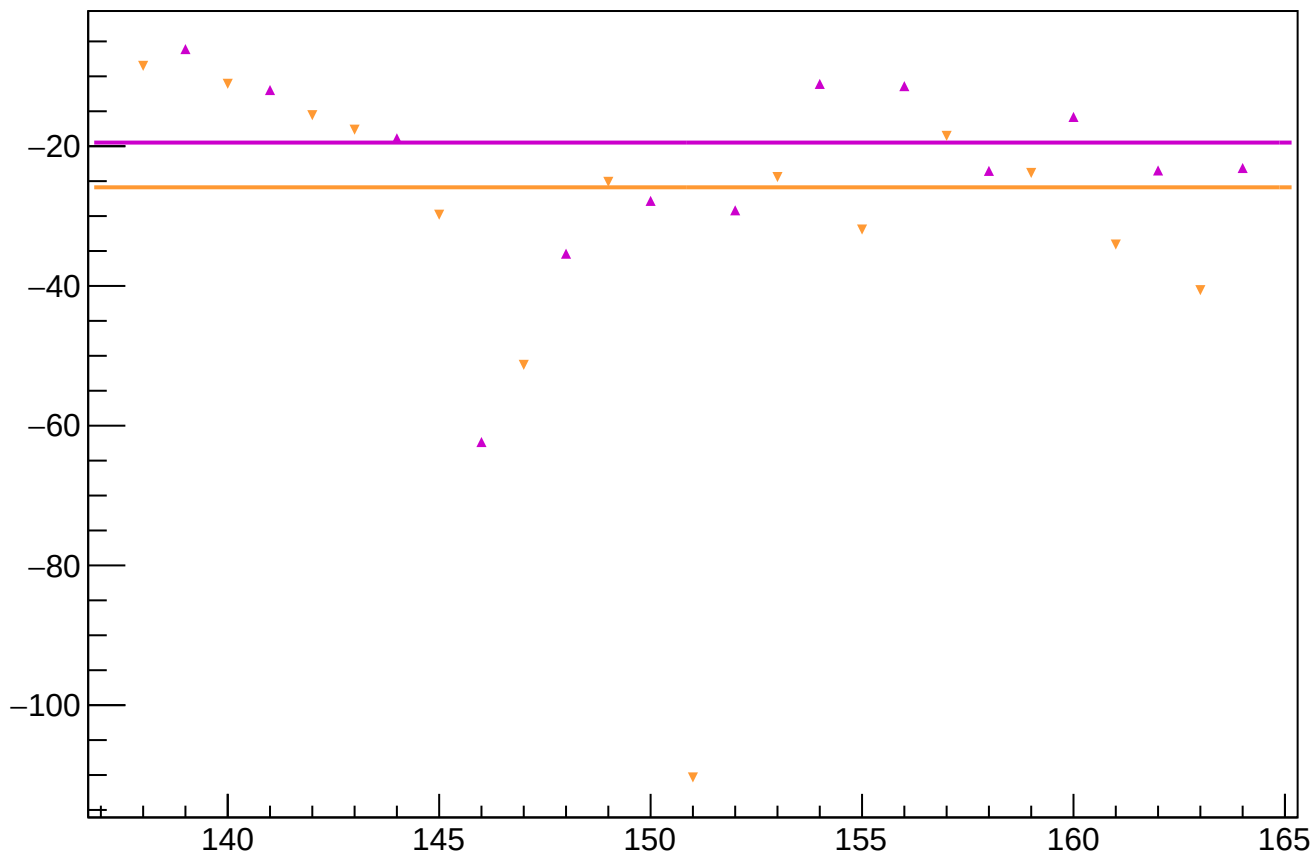
Right:  $0.208 \pm 0.003$   $\chi^2/\text{NDF}$ : 1779.7/35

In:  $0.091 \pm 0.002$   $\chi^2/\text{NDF}$ : 3727.5/29

Out:  $0.157 \pm 0.002$   $\chi^2/\text{NDF}$ : 5039.7/32

All:  $0.120 \pm 0.001$   $\chi^2/\text{NDF}$ : 9331.1/62

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: -25.883+/-0.070  $\chi^2/\text{NDF}$ :56258.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.481+/-0.059  $\chi^2/\text{NDF}$ :36703.2/12

Left: -22.127+/-0.045  $\chi^2/\text{NDF}$ : 97880.8/26

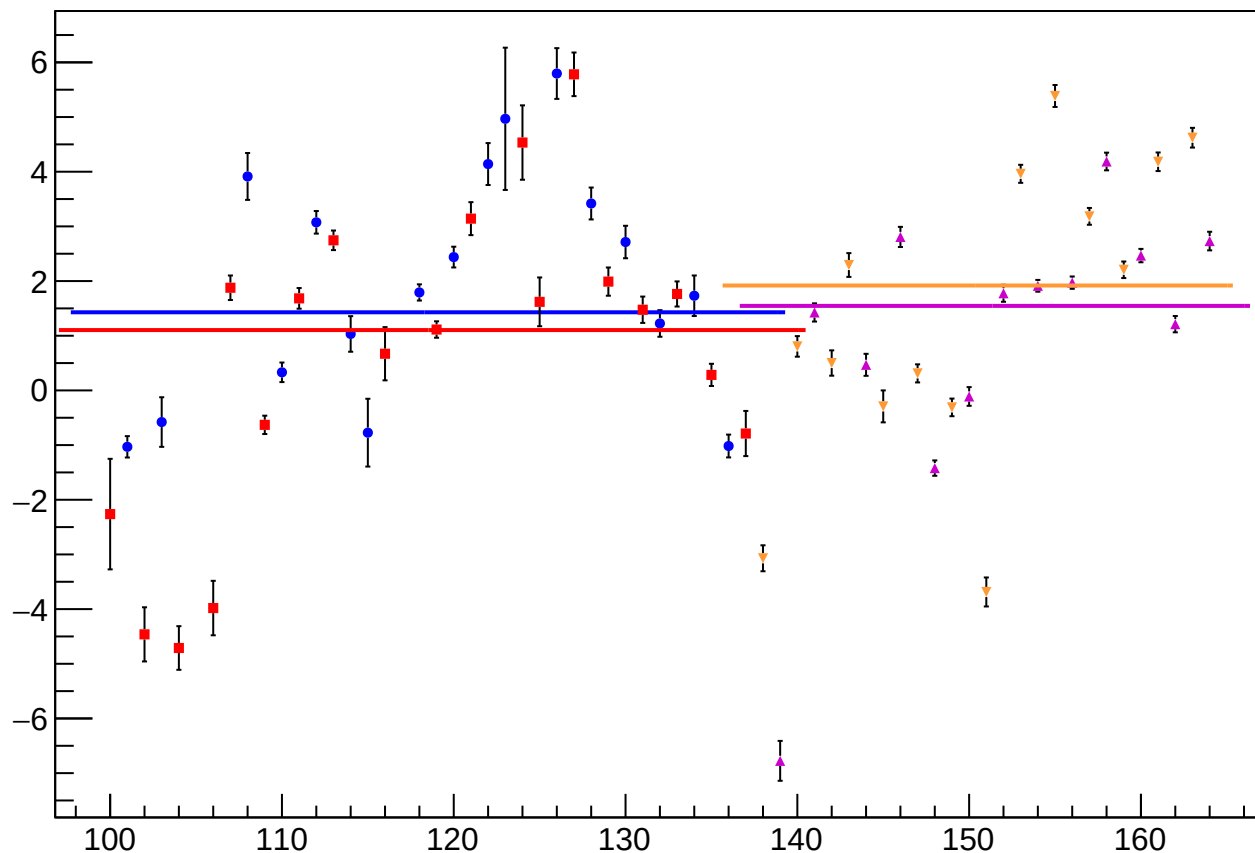
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.481+/-0.059  $\chi^2/\text{NDF}$ :36703.2/12

Out: -25.883+/-0.070  $\chi^2/\text{NDF}$ :56258.8/13

All: -22.127+/-0.045  $\chi^2/\text{NDF}$ : 97880.8/26

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.429 \pm 0.062$   $\chi^2/\text{NDF}$ : 711.4/16

Left Out:  $1.919 \pm 0.050$   $\chi^2/\text{NDF}$ : 2230.6/13

Right Out:  $1.104 \pm 0.059$   $\chi^2/\text{NDF}$ : 936.5/18

Left In:  $1.546 \pm 0.042$   $\chi^2/\text{NDF}$ : 1539.1/12

Left:  $1.699 \pm 0.032$   $\chi^2/\text{NDF}$ : 3802.4/26

Right:  $1.259 \pm 0.043$   $\chi^2/\text{NDF}$ : 1662.3/35

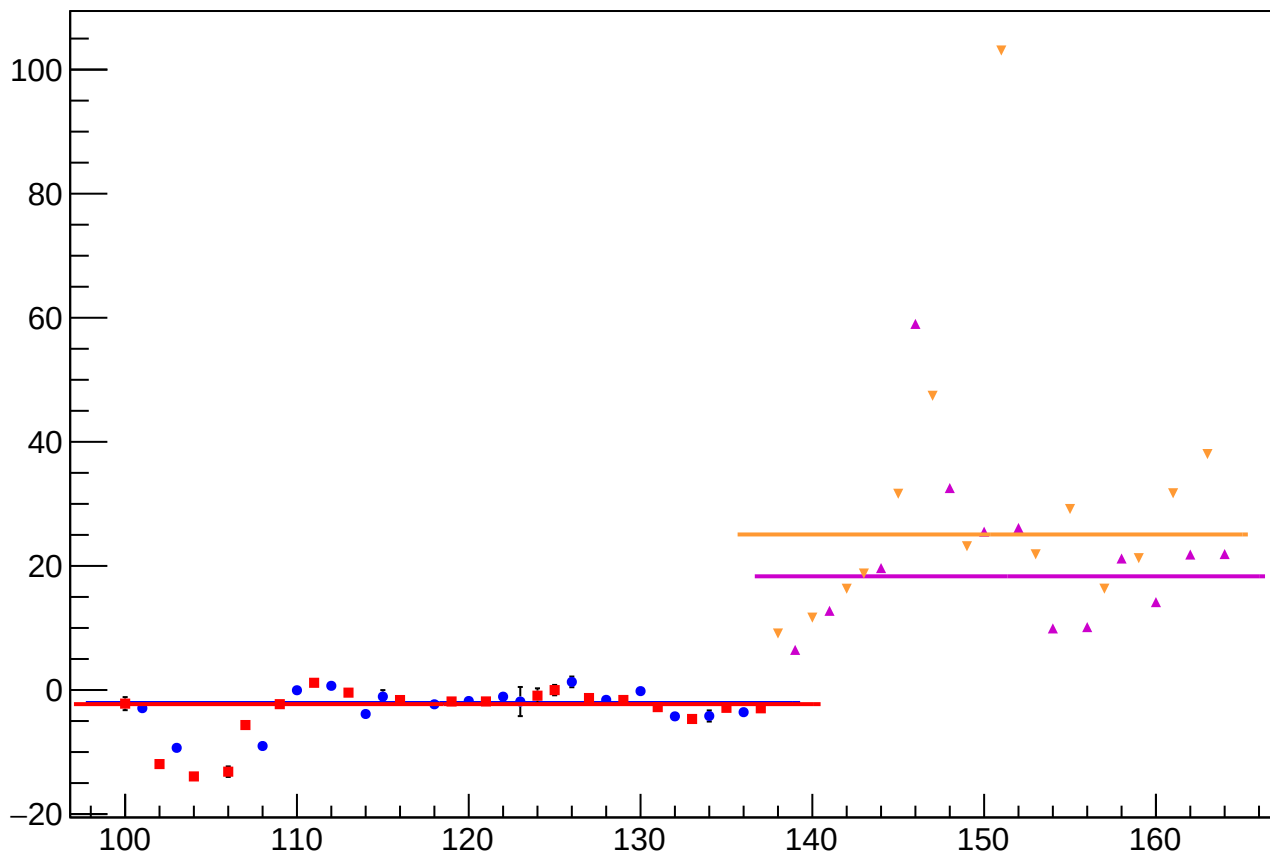
In:  $1.510 \pm 0.035$   $\chi^2/\text{NDF}$ : 2253.0/29

Out:  $1.580 \pm 0.038$   $\chi^2/\text{NDF}$ : 3277.5/32

All:  $1.541 \pm 0.026$   $\chi^2/\text{NDF}$ : 5532.3/62



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:  $25.071 \pm 0.068$   $\chi^2/\text{NDF}$ : 50215.3/13

Right Out:  $-2.278 \pm 0.101$   $\chi^2/\text{NDF}$ : 918.6/18

Left In:  $18.325 \pm 0.056$   $\chi^2/\text{NDF}$ : 34493.3/12

Left:  $21.059 \pm 0.043$   $\chi^2/\text{NDF}$ : 90506.9/26

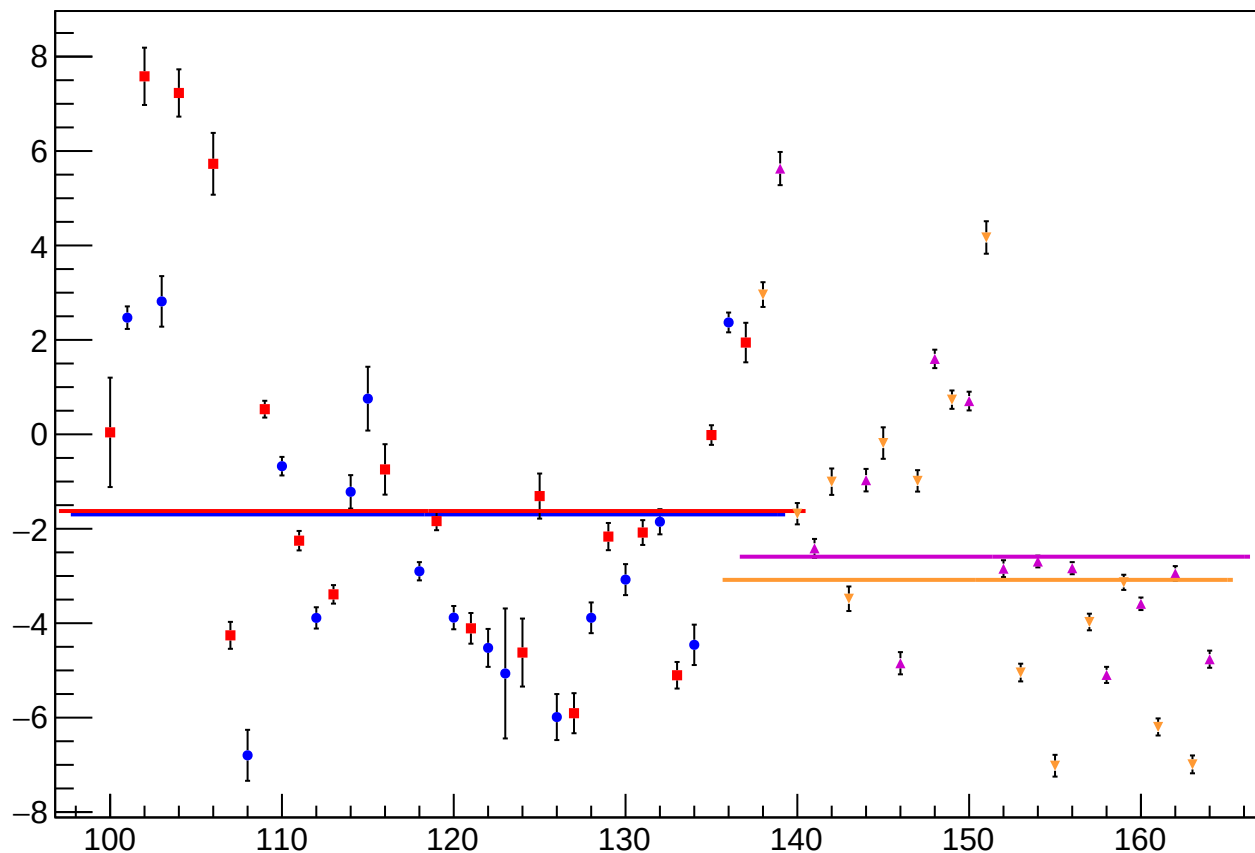
Right:  $-2.196 \pm 0.075$   $\chi^2/\text{NDF}$ : 1406.6/35

In:  $14.230 \pm 0.050$   $\chi^2/\text{NDF}$ : 61273.8/29

Out:  $16.487 \pm 0.057$   $\chi^2/\text{NDF}$ : 101432.6/32

All:  $15.229 \pm 0.038$   $\chi^2/\text{NDF}$ : 163593.1/62

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:  $-3.082 \pm 0.058$   $\chi^2/\text{NDF}$ : 2767.3/13

Right Out:  $-1.624 \pm 0.067$   $\chi^2/\text{NDF}$ : 1467.3/18

Left In:  $-2.591 \pm 0.048$   $\chi^2/\text{NDF}$ : 1849.3/12

Left:  $-2.791 \pm 0.037$   $\chi^2/\text{NDF}$ : 4659.8/26

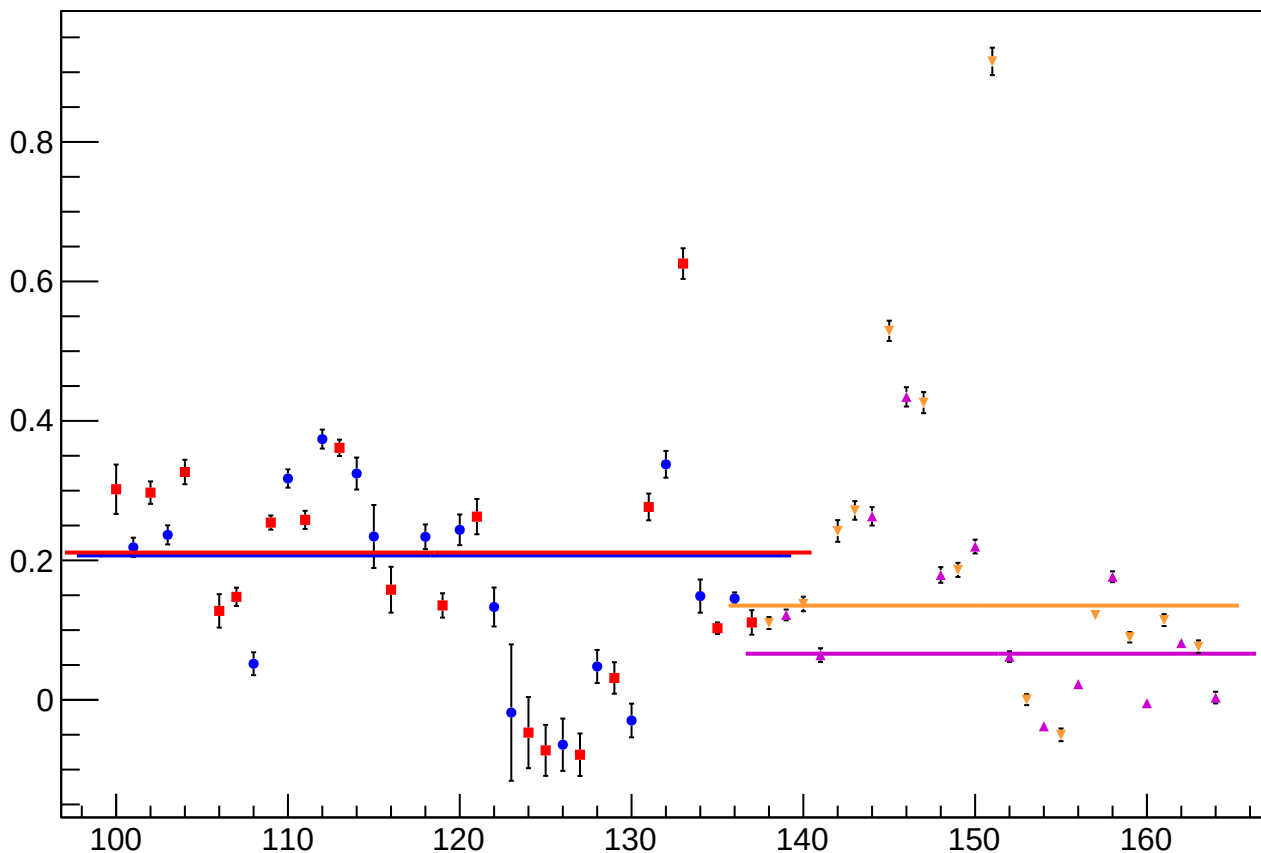
Right:  $-1.658 \pm 0.049$   $\chi^2/\text{NDF}$ : 2801.2/35

In:  $-2.316 \pm 0.040$   $\chi^2/\text{NDF}$ : 3291.2/29

Out:  $-2.463 \pm 0.044$   $\chi^2/\text{NDF}$ : 4507.1/32

All:  $-2.382 \pm 0.029$   $\chi^2/\text{NDF}$ : 7804.5/62

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.207 \pm 0.004$   $\chi^2/\text{NDF}$ : 656.3/16

Left Out:  $0.135 \pm 0.003$   $\chi^2/\text{NDF}$ : 3660.0/13

Right Out:  $0.211 \pm 0.004$   $\chi^2/\text{NDF}$ : 1145.7/18

Left In:  $0.066 \pm 0.002$   $\chi^2/\text{NDF}$ : 2205.8/12

Left:  $0.093 \pm 0.002$   $\chi^2/\text{NDF}$ : 6293.8/26

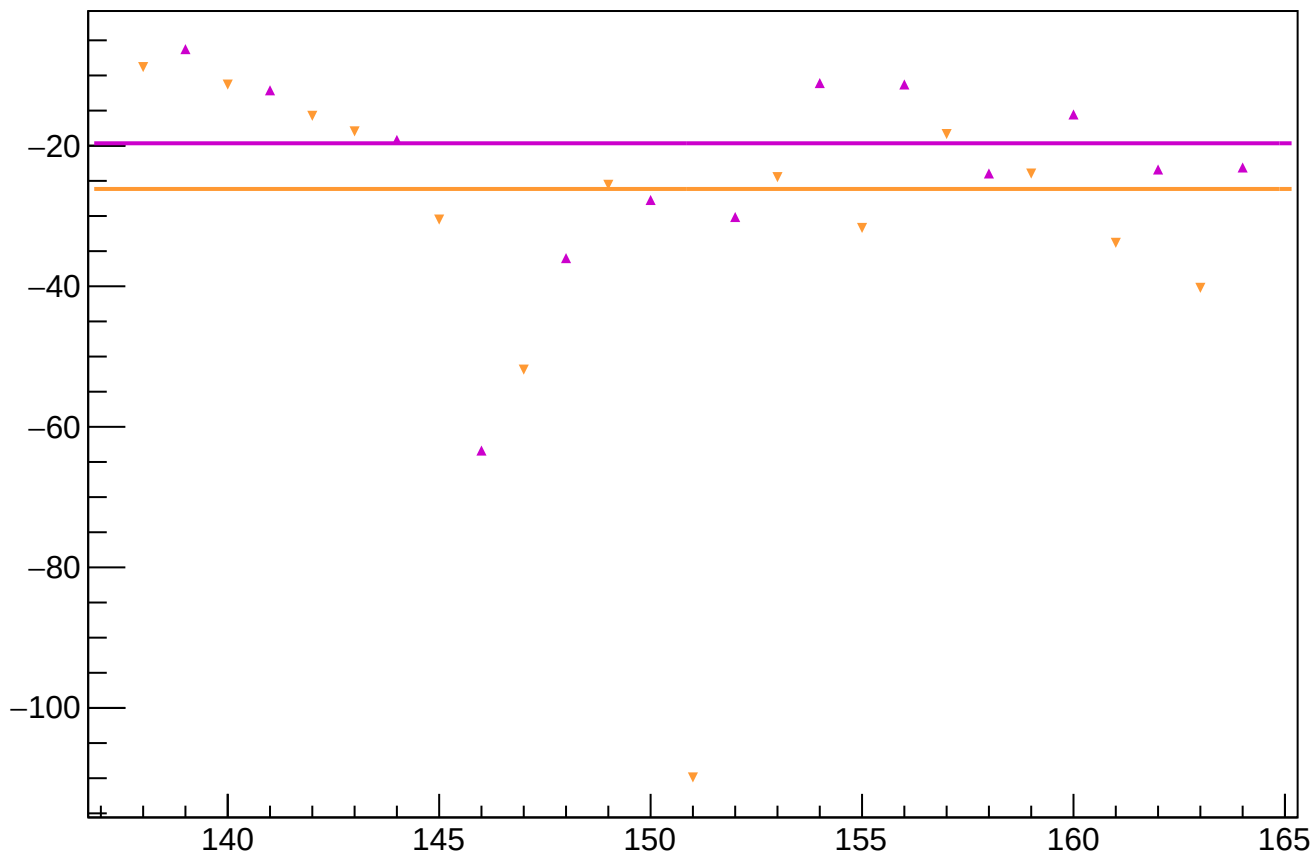
Right:  $0.209 \pm 0.003$   $\chi^2/\text{NDF}$ : 1802.5/35

In:  $0.094 \pm 0.002$   $\chi^2/\text{NDF}$ : 3764.6/29

Out:  $0.160 \pm 0.002$   $\chi^2/\text{NDF}$ : 5083.3/32

All:  $0.123 \pm 0.001$   $\chi^2/\text{NDF}$ : 9380.4/62

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: -26.150+/-0.071  $\chi^2/\text{NDF}$ :54975.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -19.651+/-0.060  $\chi^2/\text{NDF}$ :36956.9/12

Left: -22.348+/-0.046  $\chi^2/\text{NDF}$ : 96871.6/26

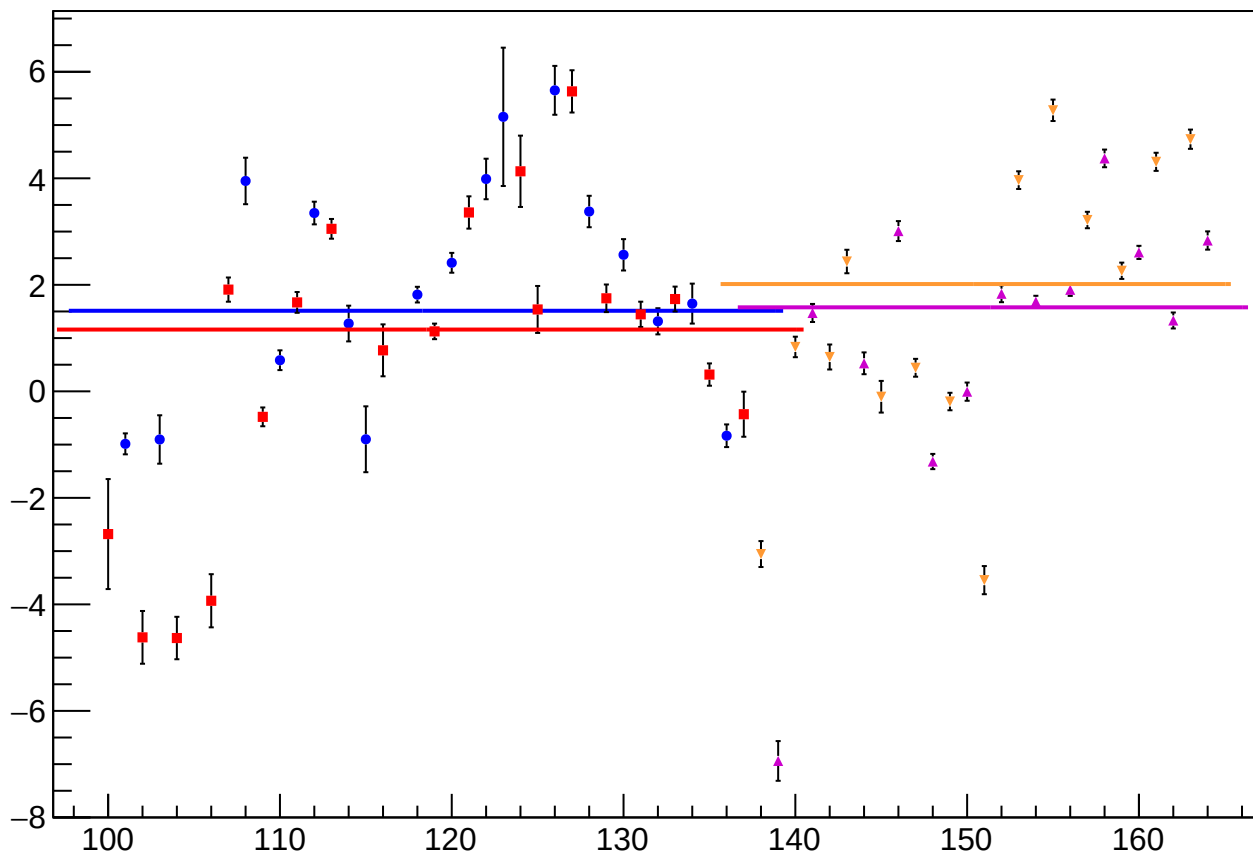
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.651+/-0.060  $\chi^2/\text{NDF}$ :36956.9/12

Out: -26.150+/-0.071  $\chi^2/\text{NDF}$ :54975.4/13

All: -22.348+/-0.046  $\chi^2/\text{NDF}$ : 96871.6/26

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.513 \pm 0.063$   $\chi^2/\text{NDF}$ : 669.7/16

Left Out:  $2.015 \pm 0.051$   $\chi^2/\text{NDF}$ : 2143.3/13

Right Out:  $1.160 \pm 0.060$   $\chi^2/\text{NDF}$ : 917.0/18

Left In:  $1.577 \pm 0.042$   $\chi^2/\text{NDF}$ : 1523.9/12

Left:  $1.758 \pm 0.032$   $\chi^2/\text{NDF}$ : 3711.1/26

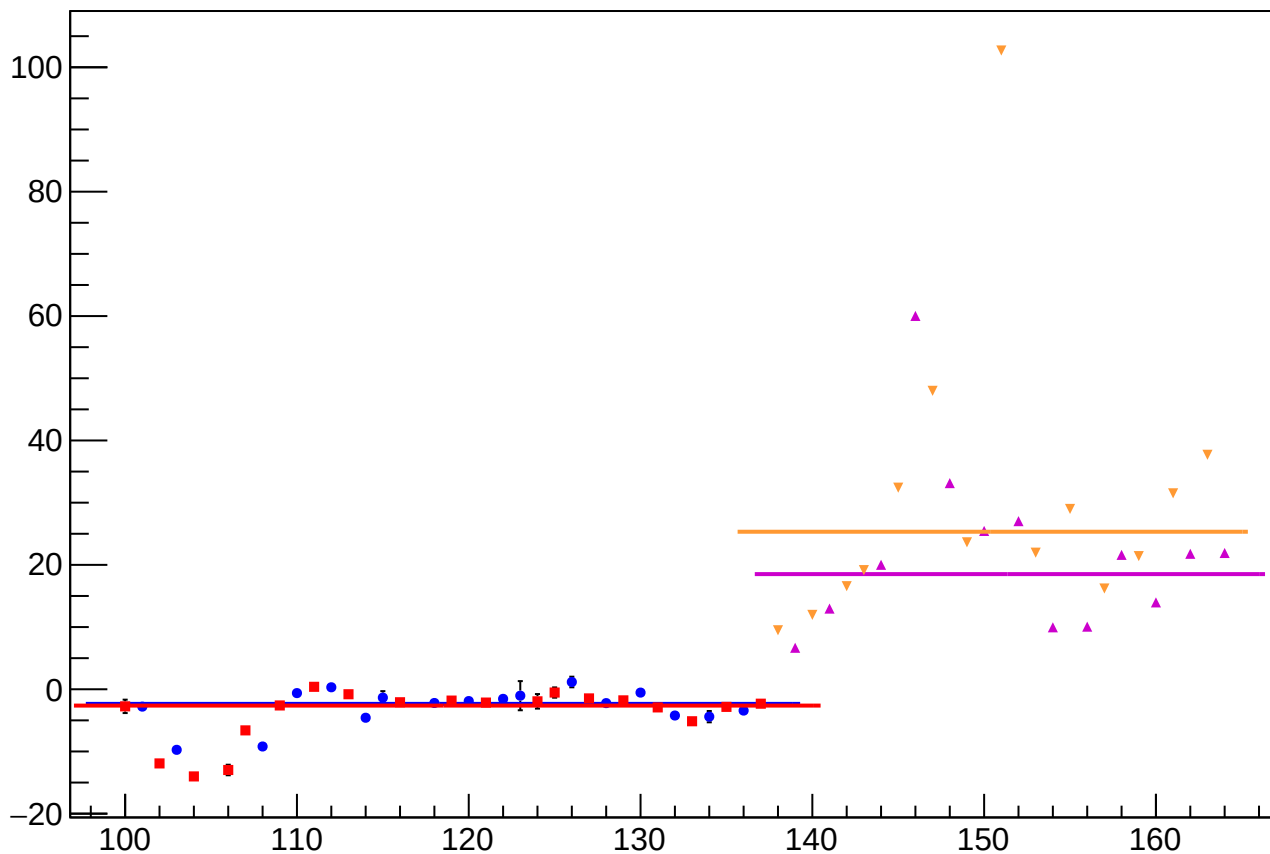
Right:  $1.329 \pm 0.043$   $\chi^2/\text{NDF}$ : 1603.3/35

In:  $1.557 \pm 0.035$   $\chi^2/\text{NDF}$ : 2194.4/29

Out:  $1.661 \pm 0.039$   $\chi^2/\text{NDF}$ : 3178.8/32

All:  $1.604 \pm 0.026$   $\chi^2/\text{NDF}$ : 5377.1/62

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:  $25.327 \pm 0.069$   $\chi^2/\text{NDF}$ : 49216.8/13

Right Out:  $-2.624 \pm 0.103$   $\chi^2/\text{NDF}$ : 840.4/18

Left In:  $18.515 \pm 0.057$   $\chi^2/\text{NDF}$ : 34787.4/12

Left:  $21.290 \pm 0.044$   $\chi^2/\text{NDF}$ : 89773.0/26

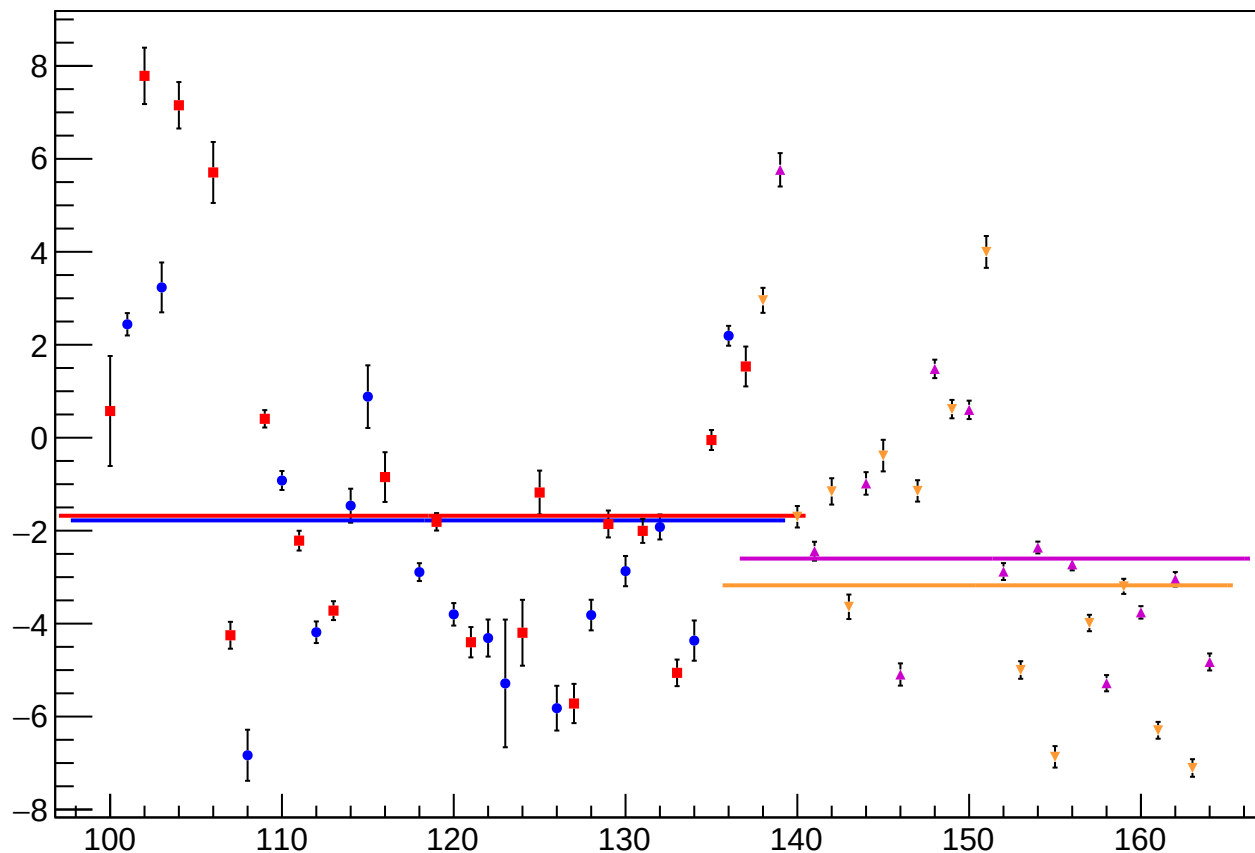
Right:  $-2.501 \pm 0.077$   $\chi^2/\text{NDF}$ : 1283.3/35

In:  $14.331 \pm 0.051$   $\chi^2/\text{NDF}$ : 61868.1/29

Out:  $16.689 \pm 0.057$   $\chi^2/\text{NDF}$ : 100710.8/32

All:  $15.376 \pm 0.038$   $\chi^2/\text{NDF}$ : 163518.9/62

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:  $-3.176 \pm 0.058$   $\chi^2/\text{NDF}: 2661.1/13$

Right Out:  $-1.679 \pm 0.068$   $\chi^2/\text{NDF}: 1429.6/18$

Left In:  $-2.601 \pm 0.048$   $\chi^2/\text{NDF}: 1851.6/12$

Left:  $-2.836 \pm 0.037$   $\chi^2/\text{NDF}: 4570.6/26$

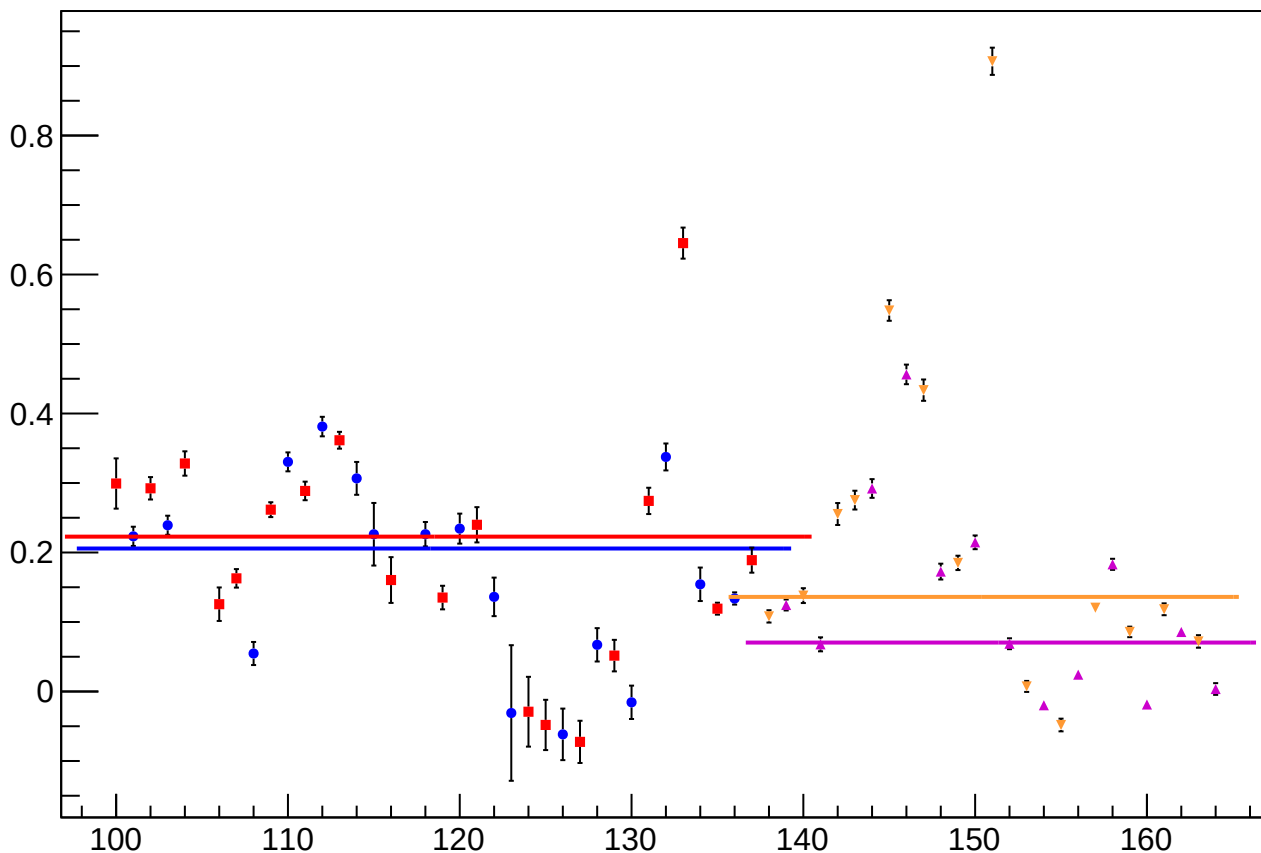
Right:  $-1.726 \pm 0.050$   $\chi^2/\text{NDF}: 2702.6/35$

In:  $-2.347 \pm 0.040$   $\chi^2/\text{NDF}: 3212.9/29$

Out:  $-2.544 \pm 0.044$   $\chi^2/\text{NDF}: 4370.8/32$

All:  $-2.436 \pm 0.030$   $\chi^2/\text{NDF}: 7594.6/62$

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.206 \pm 0.004$   $\chi^2/\text{NDF}$ : 651.8/16

Left Out:  $0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 3673.0/13

Right Out:  $0.223 \pm 0.004$   $\chi^2/\text{NDF}$ : 1042.2/18

Left In:  $0.070 \pm 0.002$   $\chi^2/\text{NDF}$ : 2210.7/12

Left:  $0.096 \pm 0.002$   $\chi^2/\text{NDF}$ : 6262.7/26

Right:  $0.215 \pm 0.003$   $\chi^2/\text{NDF}$ : 1702.9/35

In:  $0.097 \pm 0.002$   $\chi^2/\text{NDF}$ : 3671.9/29

Out:  $0.164 \pm 0.002$   $\chi^2/\text{NDF}$ : 5063.6/32

All:  $0.126 \pm 0.001$   $\chi^2/\text{NDF}$ : 9265.8/62