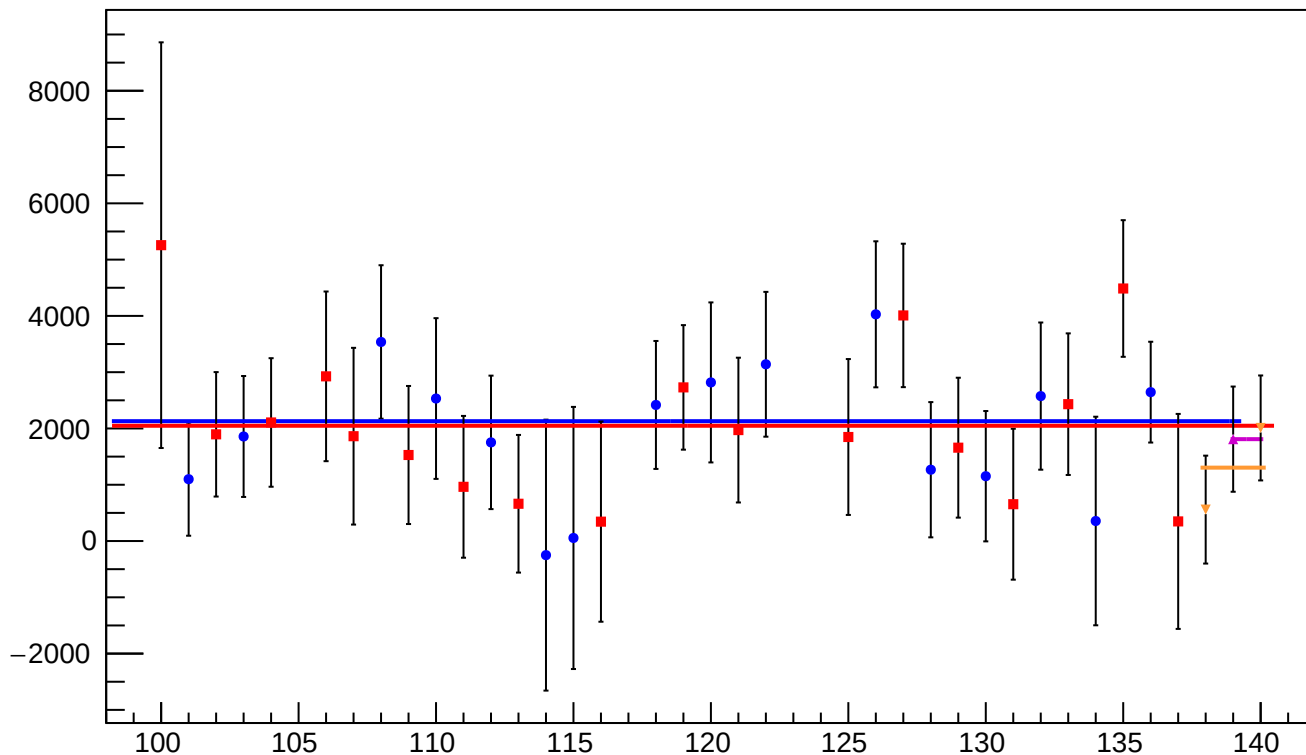


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2129.586+/-316.501

Left Out: 1304.039+/-668.395

Right Out: 2048.278+/-314.118

Left In: 1810.093+/-934.635

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

$\chi^2/\text{NDF}$ : 1.2/1

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

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

Left: 1475.274+/-543.675

Right: 2088.625+/-222.953

In: 2096.717+/-299.779

Out: 1913.641+/-284.289

All: 2000.327+/-206.281

$\chi^2/\text{NDF}$ : 1.4/2

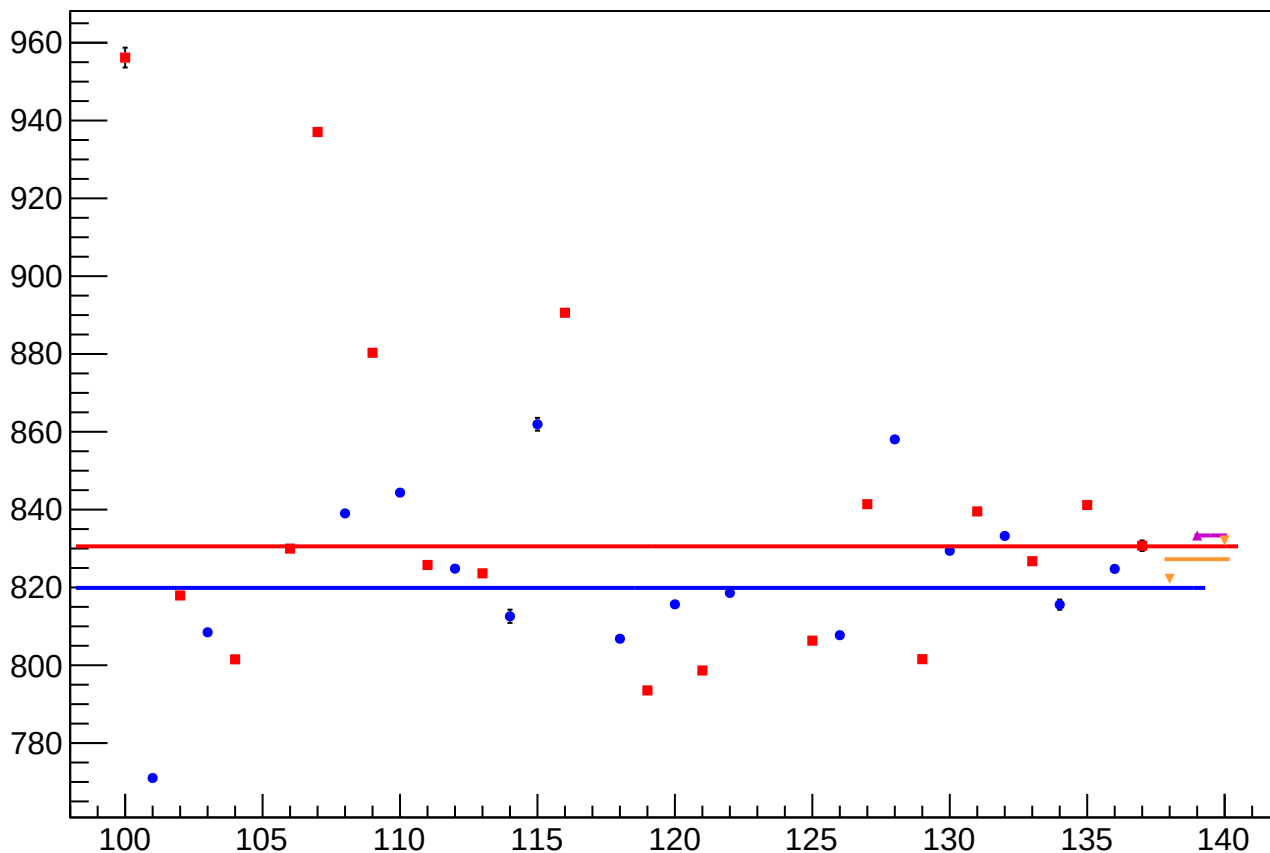
$\chi^2/\text{NDF}$ : 23.0/33

$\chi^2/\text{NDF}$ : 9.9/16

$\chi^2/\text{NDF}$ : 15.4/19

$\chi^2/\text{NDF}$ : 25.4/36

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



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

Left Out: 827.267 $\pm$ 0.473  $\chi^2$ /NDF:108.6/1

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

Left In: 833.357 $\pm$ 0.661  $\chi^2$ /NDF:0.0/0

Left: 829.328 $\pm$ 0.384  $\chi^2$ /NDF: 164.8/2

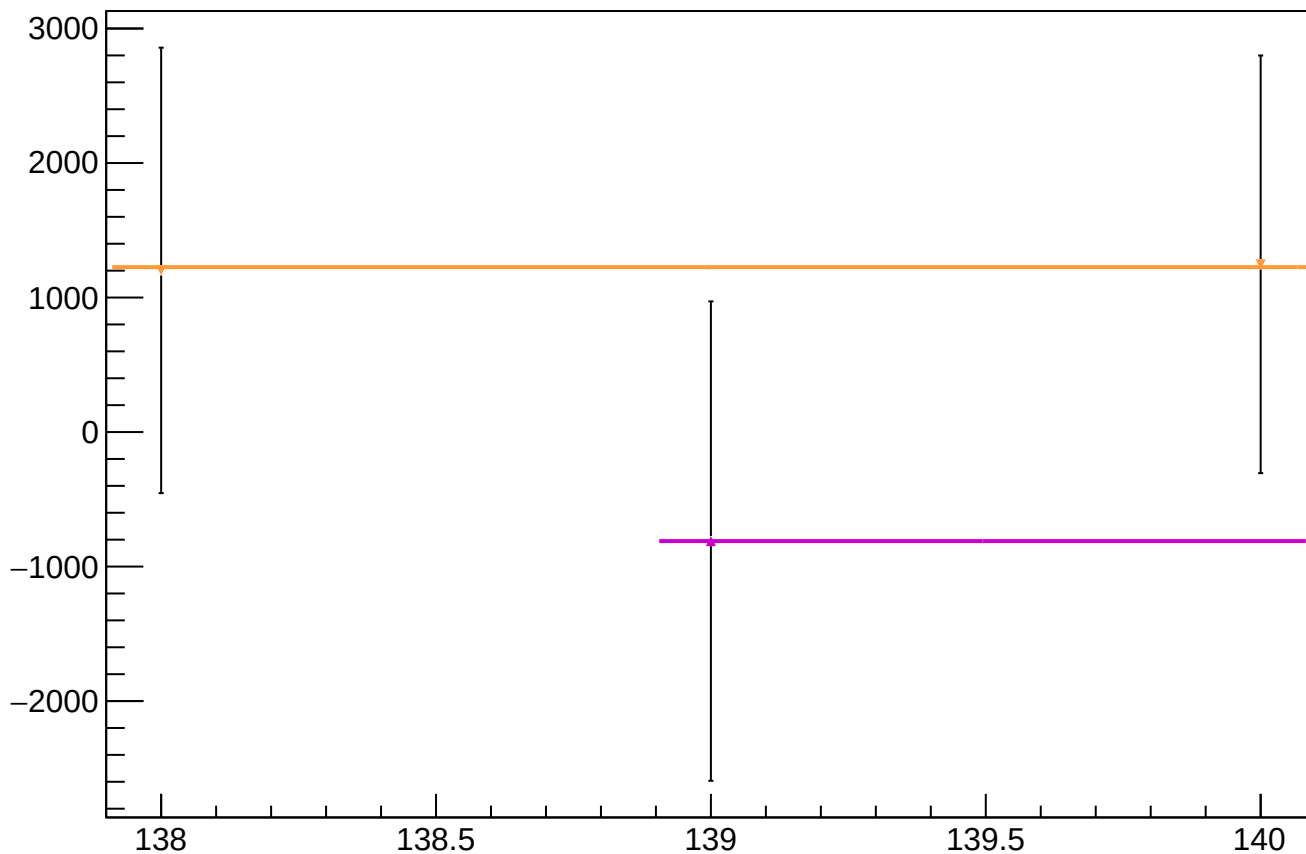
Right: 825.261 $\pm$ 0.158  $\chi^2$ /NDF: 35113.5/33

In: 821.269 $\pm$ 0.212  $\chi^2$ /NDF:9910.8/16

Out: 829.963 $\pm$ 0.201  $\chi^2$ /NDF:24577.5/19

All: 825.847 $\pm$ 0.146  $\chi^2$ /NDF: 35374.0/36

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



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

Left Out: 1225.893+/-1132.525  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -810.598+/-1782.063  $\chi^2/\text{NDF}$ : 0.0/0

Left: 640.021+/-955.836  $\chi^2/\text{NDF}$ : 0.9/2

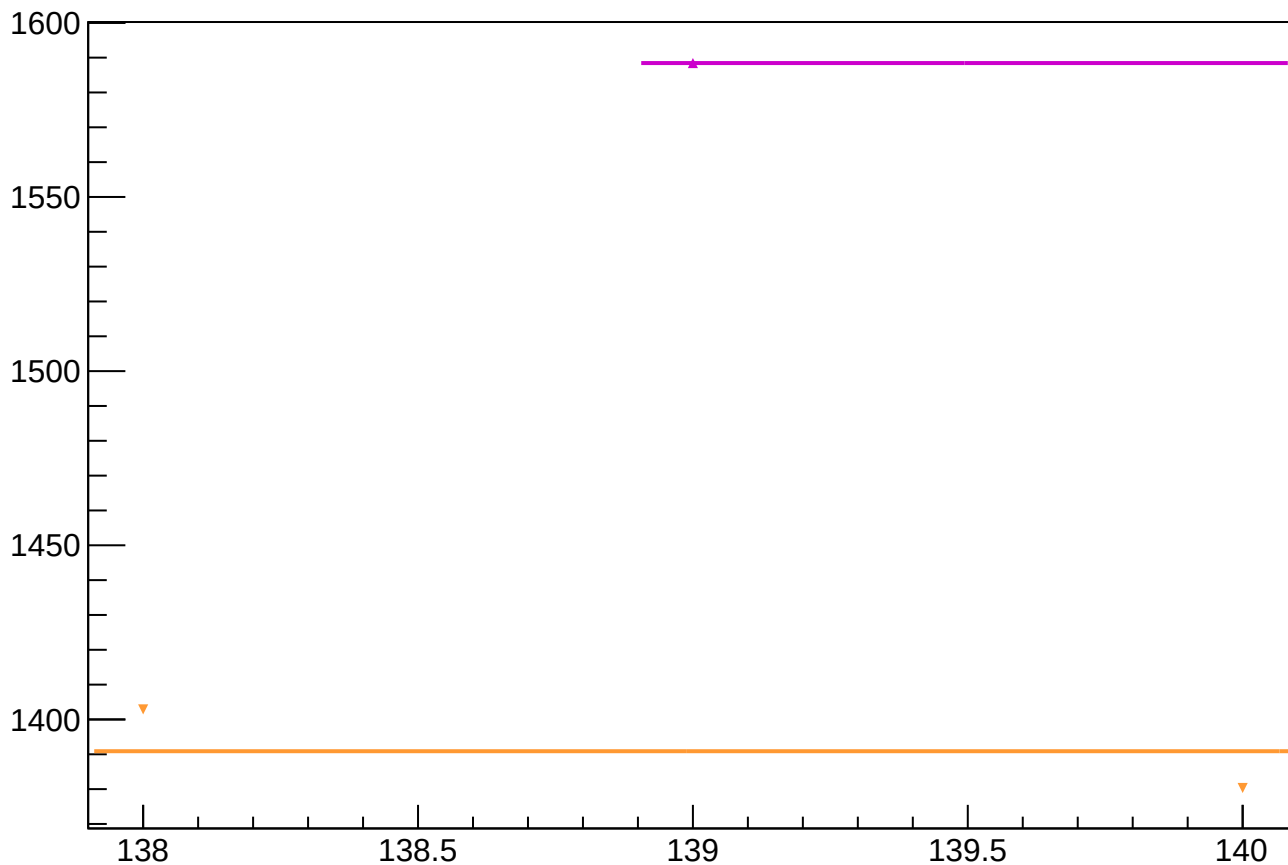
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -810.598+/-1782.063  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1225.893+/-1132.525  $\chi^2/\text{NDF}$ : 0.0/1

All: 640.021+/-955.836  $\chi^2/\text{NDF}$ : 0.9/2

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



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

Left Out: 1390.883+/-0.801  $\chi^2/\text{NDF}$ :197.5/1

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

Left In: 1588.442+/-1.260  $\chi^2/\text{NDF}$ :0.0/0

Left: 1447.718+/-0.676  $\chi^2/\text{NDF}$ : 17706.0/2

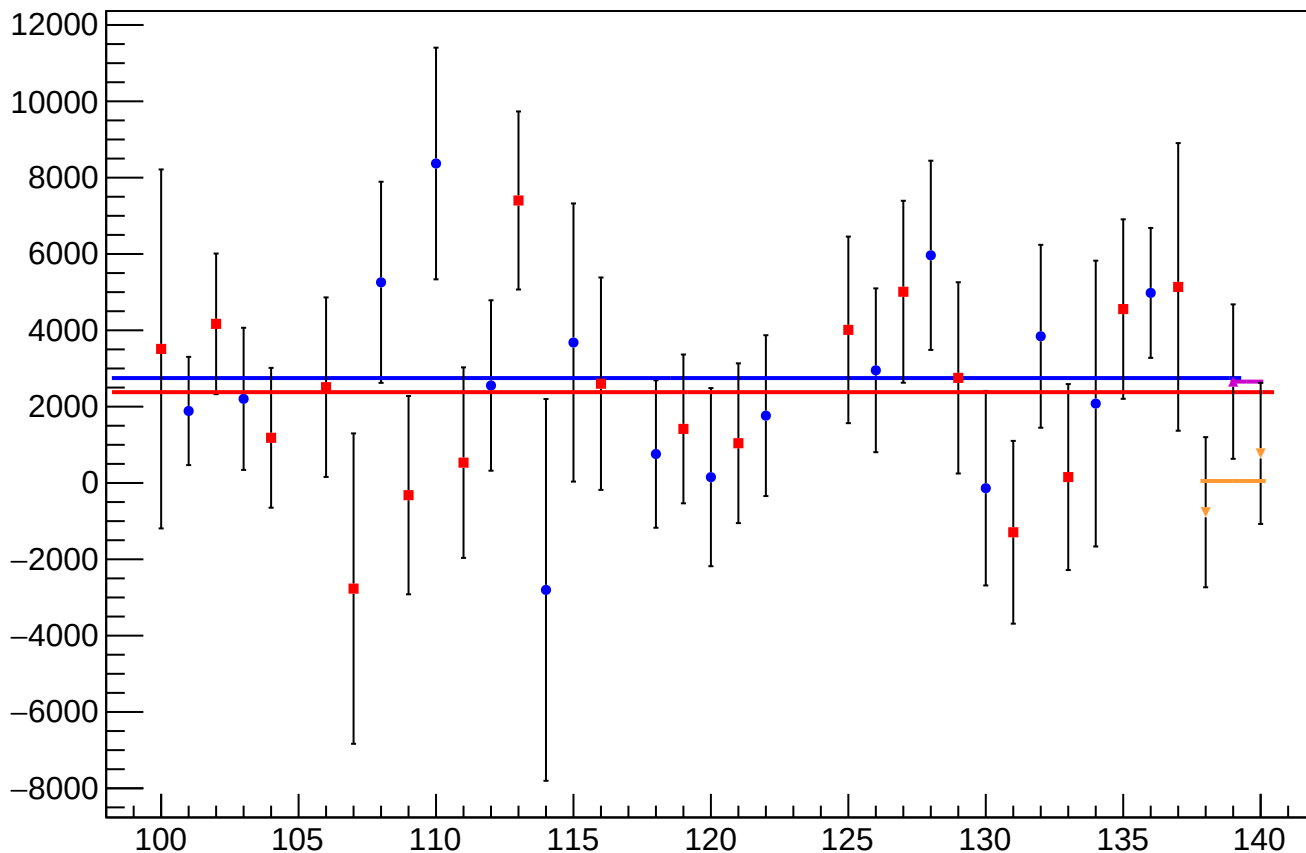
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1588.442+/-1.260  $\chi^2/\text{NDF}$ :0.0/0

Out: 1390.883+/-0.801  $\chi^2/\text{NDF}$ :197.5/1

All: 1447.718+/-0.676  $\chi^2/\text{NDF}$ : 17706.0/2

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



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

Left Out: 52.218+/-1347.118  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: 2656.060+/-2023.386  $\chi^2/\text{NDF}$ : 0.0/0

Left: 851.915+/-1121.331  $\chi^2/\text{NDF}$ : 1.5/2

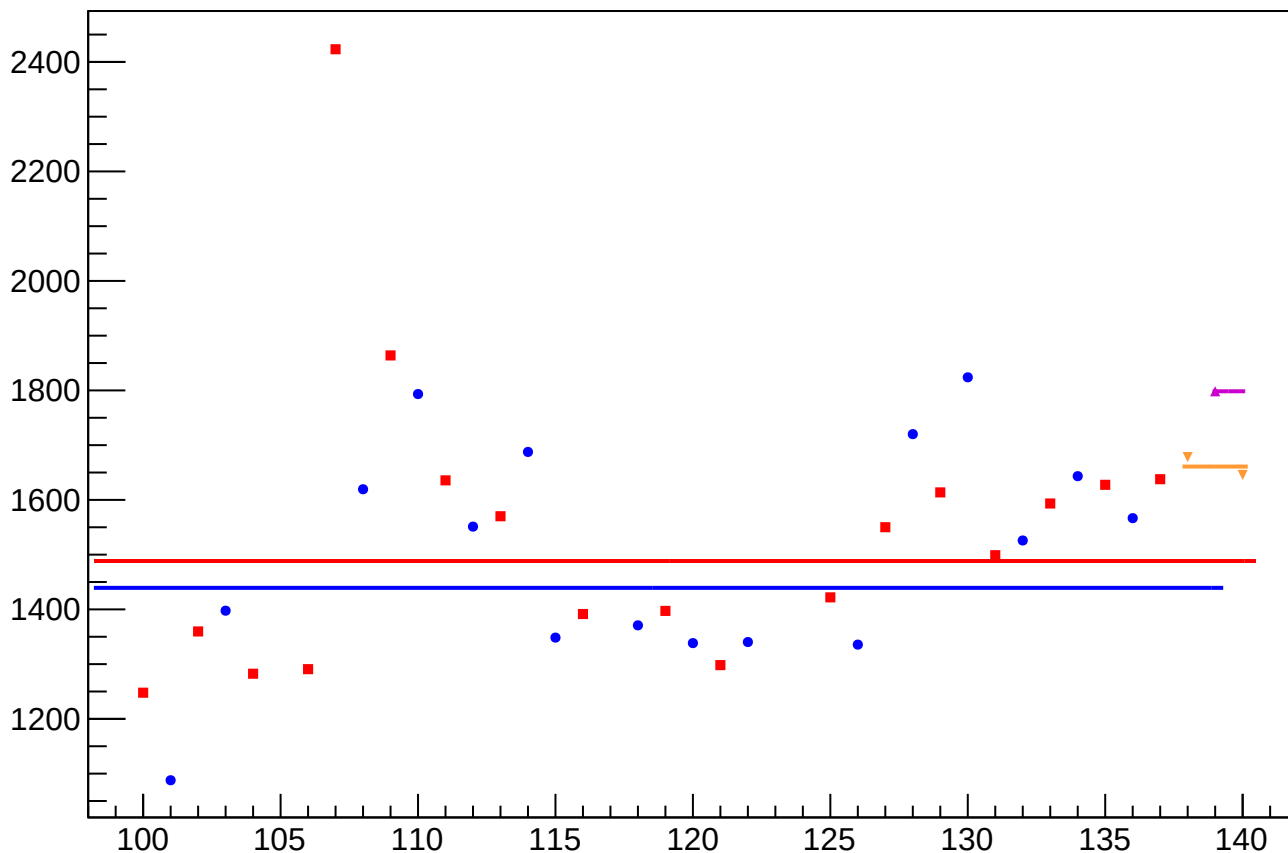
Right: 2566.079+/-400.174  $\chi^2/\text{NDF}$ : 30.0/33

In: 2742.116+/-542.344  $\chi^2/\text{NDF}$ : 13.6/16

Out: 2027.149+/-524.135  $\chi^2/\text{NDF}$ : 19.1/19

All: 2372.428+/-376.892  $\chi^2/\text{NDF}$ : 33.5/36

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



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

Left Out: 1660.906+/-0.953  $\chi^2/\text{NDF}$ : 291.1/1

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

Left In: 1798.410+/-1.431  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1703.136+/-0.793  $\chi^2/\text{NDF}$ : 6690.8/2

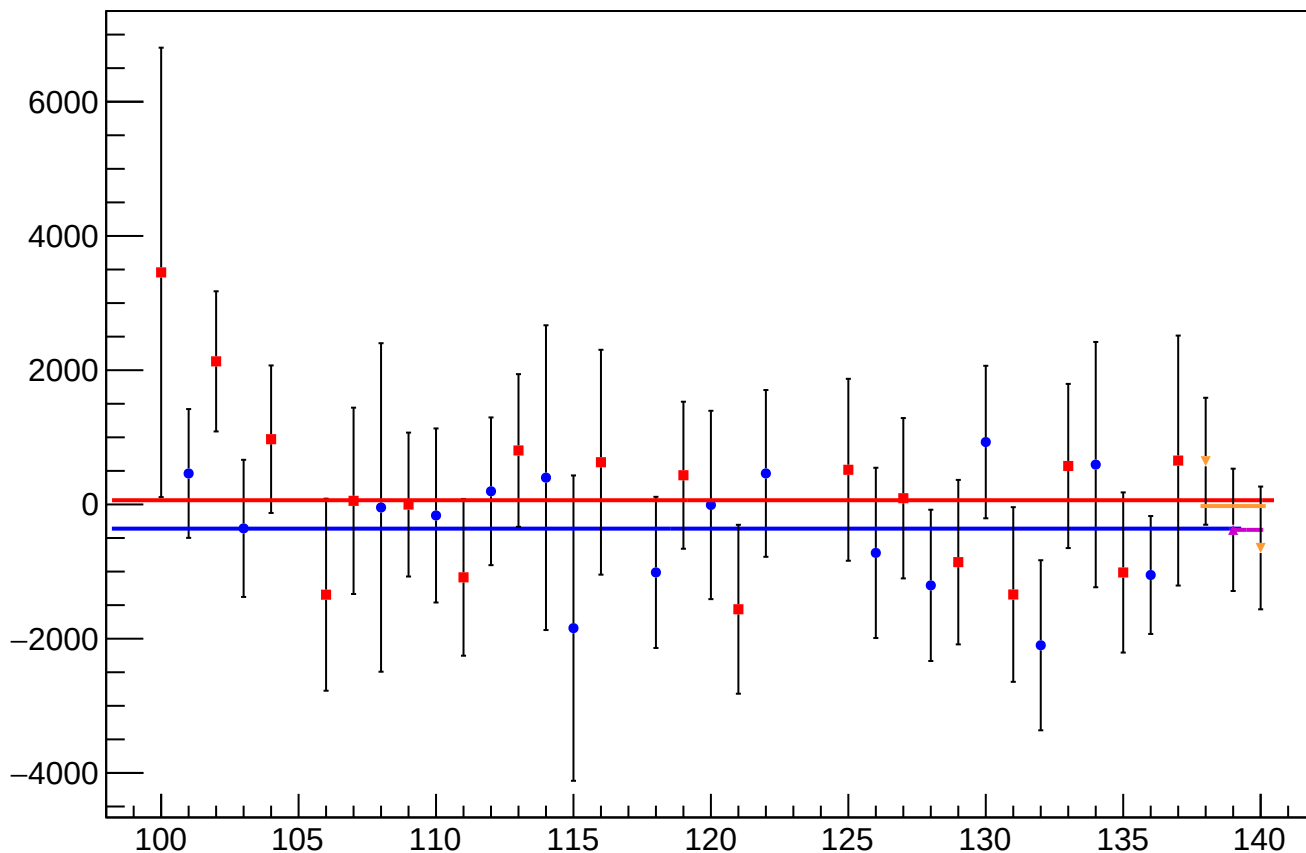
Right: 1463.597+/-0.283  $\chi^2/\text{NDF}$ : 541697.1/33

In: 1465.130+/-0.383  $\chi^2/\text{NDF}$ : 336322.5/16

Out: 1514.501+/-0.371  $\chi^2/\text{NDF}$ : 284452.7/19

All: 1490.658+/-0.267  $\chi^2/\text{NDF}$ : 629344.9/36

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



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

Left Out: -23.942+/-657.355  $\chi^2/\text{NDF}$ : 1.0/1

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

Left In: -378.316+/-911.079  $\chi^2/\text{NDF}$ : 0.0/0

Left: -145.264+/-533.084  $\chi^2/\text{NDF}$ : 1.1/2

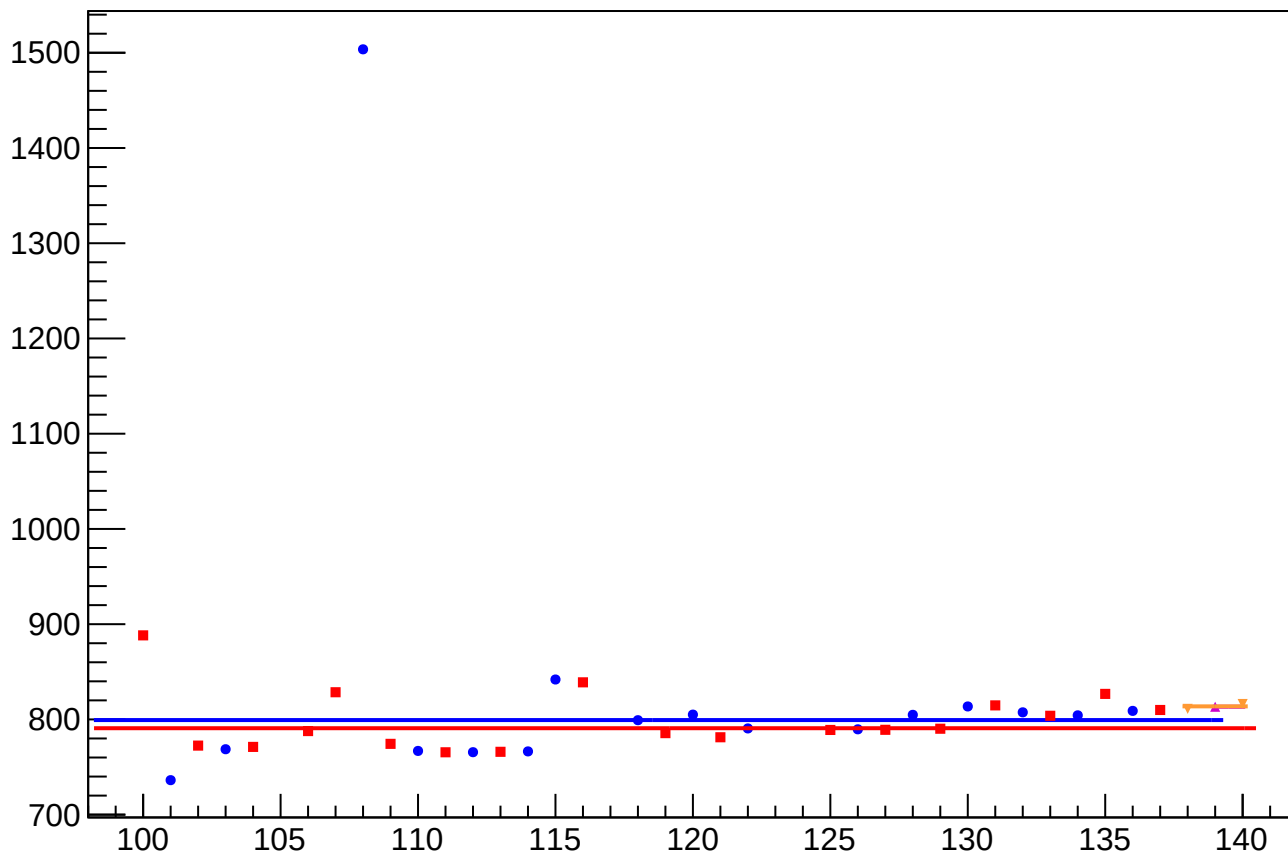
Right: -140.423+/-215.314  $\chi^2/\text{NDF}$ : 20.9/33

In: -362.089+/-293.966  $\chi^2/\text{NDF}$ : 7.1/16

Out: 48.082+/-271.992  $\chi^2/\text{NDF}$ : 13.8/19

All: -141.102+/-199.645  $\chi^2/\text{NDF}$ : 22.0/36

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



Right In: 799.322 $\pm$ 0.220  $\chi^2$ /NDF: 181303.9/15

Left Out: 813.713 $\pm$ 0.465  $\chi^2$ /NDF:30.2/1

Right Out: 790.760 $\pm$ 0.211  $\chi^2$ /NDF: 11555.4/17

Left In: 813.327 $\pm$ 0.644  $\chi^2$ /NDF:0.0/0

Left: 813.581 $\pm$ 0.377  $\chi^2$ /NDF: 30.5/2

Right: 794.875 $\pm$ 0.152  $\chi^2$ /NDF: 193648.9/33

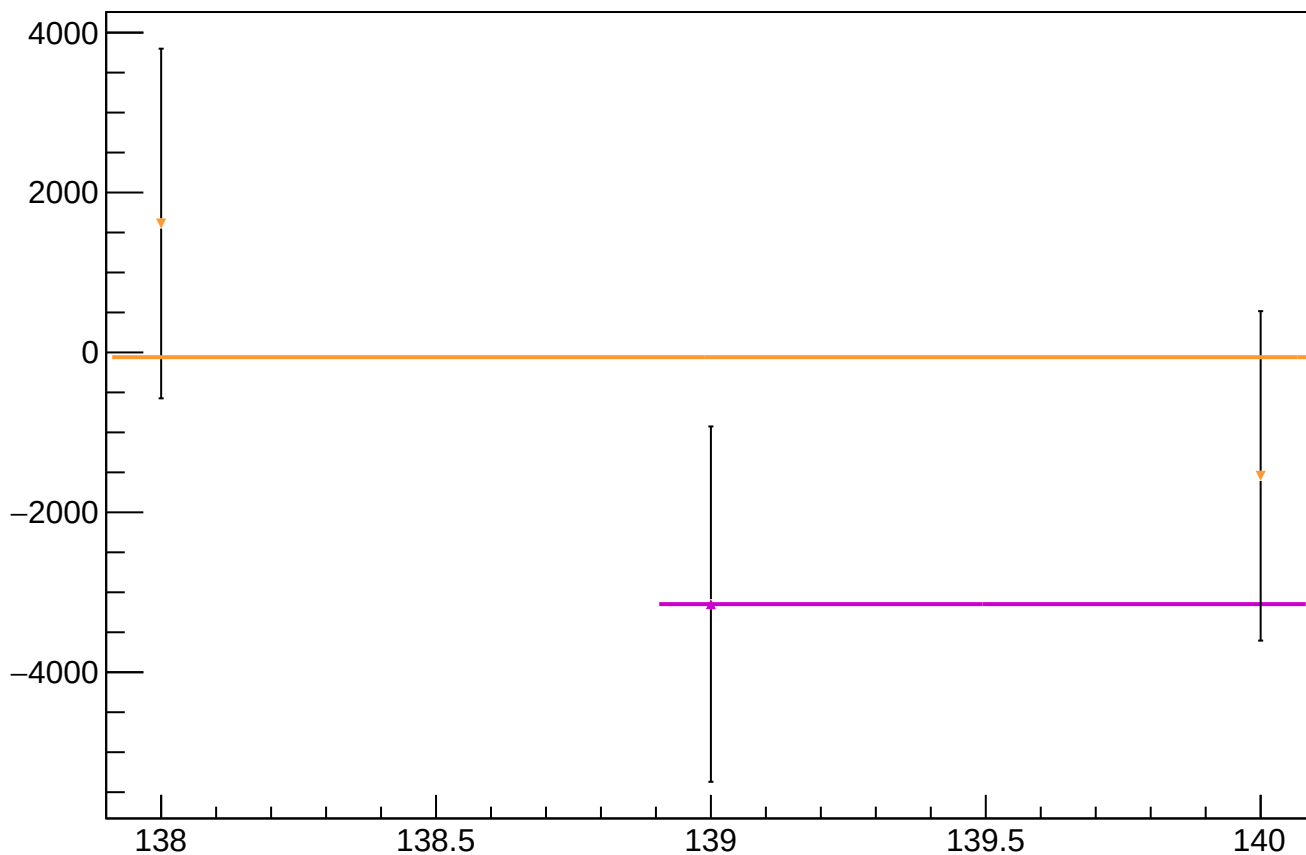
In: 800.780 $\pm$ 0.208  $\chi^2$ /NDF:181727.3/16

Out: 794.689 $\pm$ 0.192  $\chi^2$ /NDF:13606.6/19

All: 797.499 $\pm$ 0.141  $\chi^2$ /NDF: 195796.5/36



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



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

Left Out: -59.468+/-1499.604  $\chi^2/\text{NDF}$ :1.1/1

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

Left In: -3148.049+/-2222.139  $\chi^2/\text{NDF}$ :0.0/0

Left: -1025.923+/-1243.033  $\chi^2/\text{NDF}$ : 2.4/2

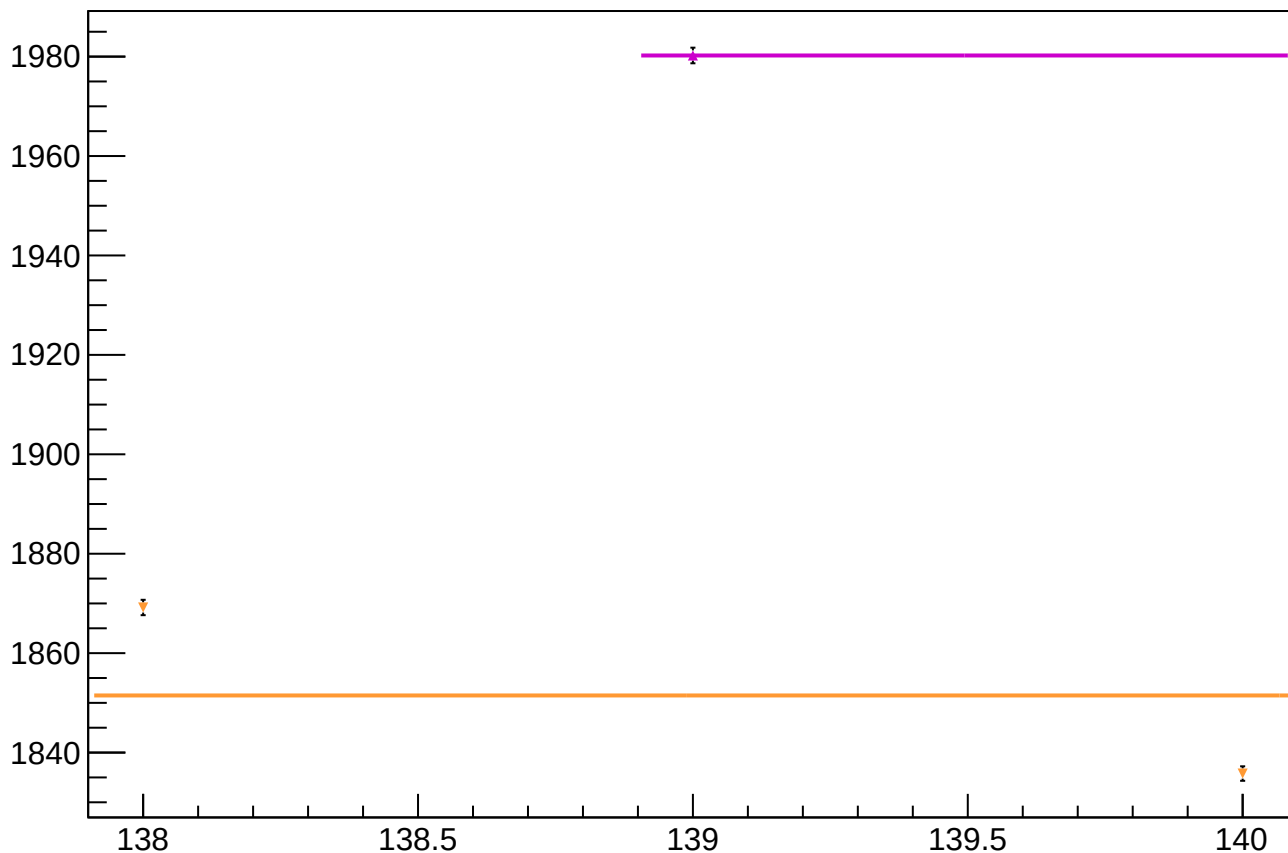
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3148.049+/-2222.139  $\chi^2/\text{NDF}$ :0.0/0

Out: -59.468+/-1499.604  $\chi^2/\text{NDF}$ :1.1/1

All: -1025.923+/-1243.033  $\chi^2/\text{NDF}$ : 2.4/2

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



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

Left Out: 1851.490+/-1.060  $\chi^2/\text{NDF}$ :247.2/1

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

Left In: 1980.226+/-1.571  $\chi^2/\text{NDF}$ :0.0/0

Left: 1891.773+/-0.879  $\chi^2/\text{NDF}$ : 4859.4/2

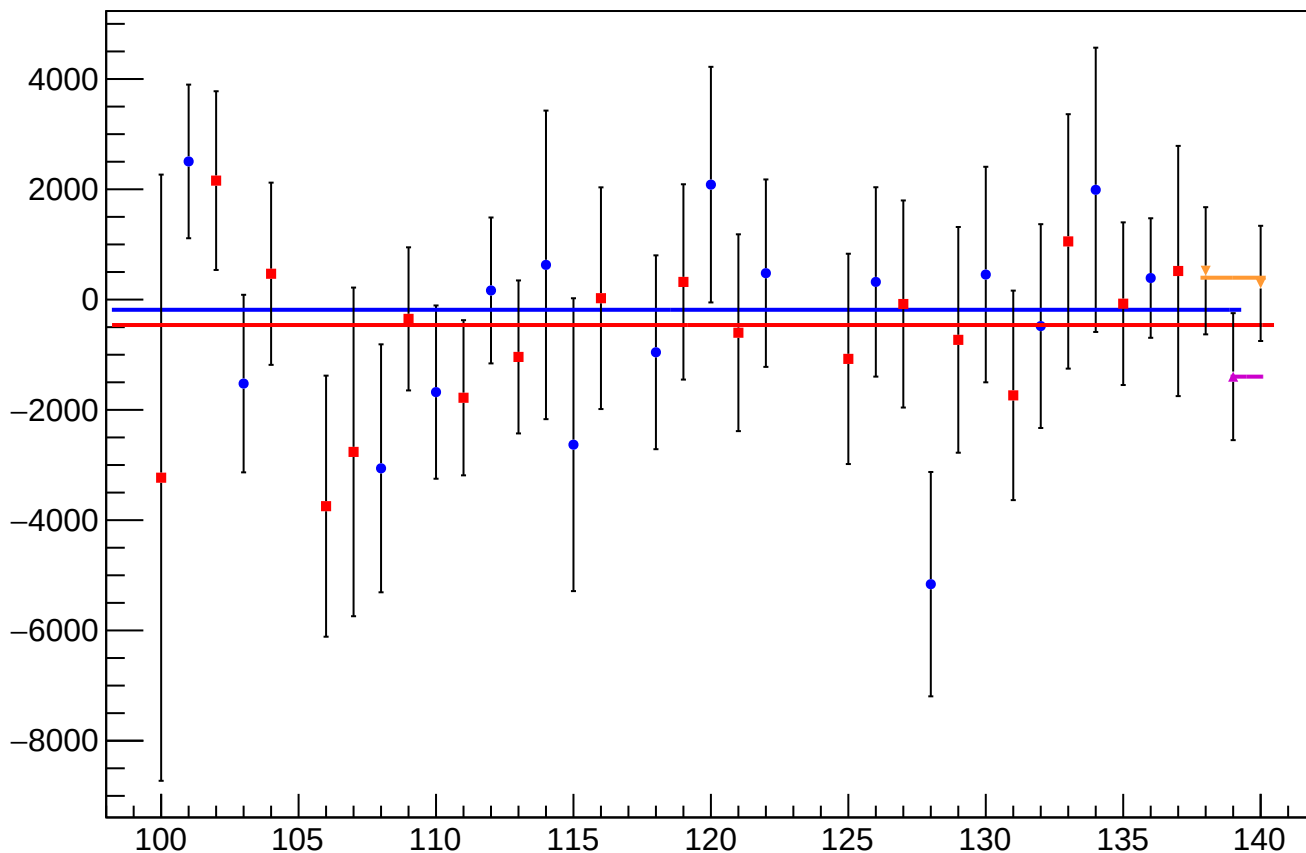
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1980.226+/-1.571  $\chi^2/\text{NDF}$ :0.0/0

Out: 1851.490+/-1.060  $\chi^2/\text{NDF}$ :247.2/1

All: 1891.773+/-0.879  $\chi^2/\text{NDF}$ : 4859.4/2

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



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

Left Out:  $396.675 \pm 774.176$   $\chi^2/\text{NDF}: 0.0/1$

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

Left In:  $-1397.462 \pm 1151.525$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-161.825 \pm 642.476$   $\chi^2/\text{NDF}: 1.7/2$

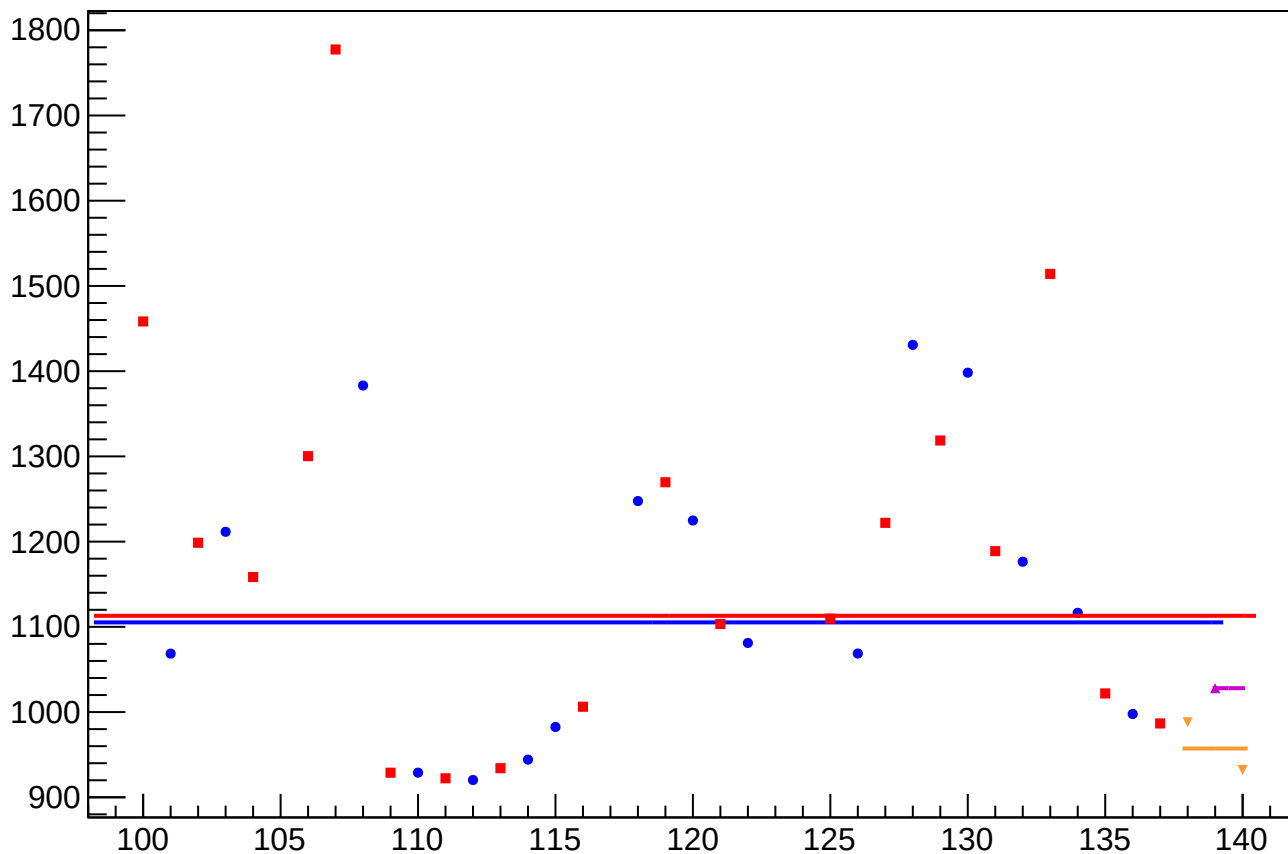
Right:  $-324.625 \pm 303.483$   $\chi^2/\text{NDF}: 25.2/33$

In:  $-334.331 \pm 404.059$   $\chi^2/\text{NDF}: 17.6/16$

Out:  $-261.195 \pm 373.845$   $\chi^2/\text{NDF}: 9.3/19$

All:  $-294.927 \pm 274.409$   $\chi^2/\text{NDF}: 26.9/36$

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



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

Left Out: 957.279+/-0.547  $\chi^2/\text{NDF}$ : 2580.5/1

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

Left In: 1028.013+/-0.814  $\chi^2/\text{NDF}$ : 0.0/0

Left: 979.298+/-0.454  $\chi^2/\text{NDF}$ : 7777.7/2

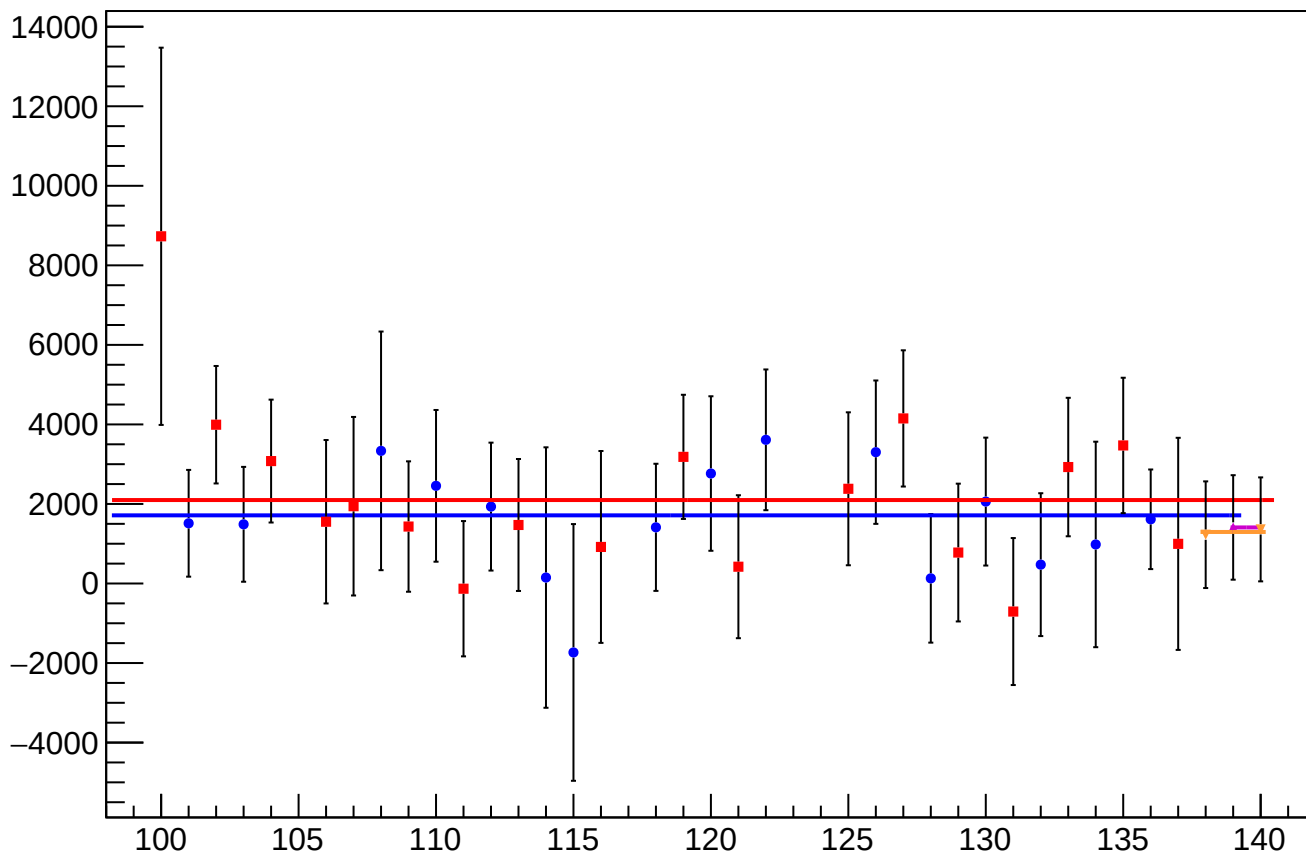
Right: 1109.146+/-0.215  $\chi^2/\text{NDF}$ : 618686.6/33

In: 1095.728+/-0.286  $\chi^2/\text{NDF}$ : 263253.2/16

Out: 1076.668+/-0.264  $\chi^2/\text{NDF}$ : 427604.0/19

All: 1085.459+/-0.194  $\chi^2/\text{NDF}$ : 693254.8/36

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



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

Left Out: 1295.492 $\pm$ 936.064  $\chi^2$ /NDF: 0.0/1

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

Left In: 1409.715 $\pm$ 1313.843  $\chi^2$ /NDF: 0.0/0

Left: 1333.950 $\pm$ 762.363  $\chi^2$ /NDF: 0.0/2

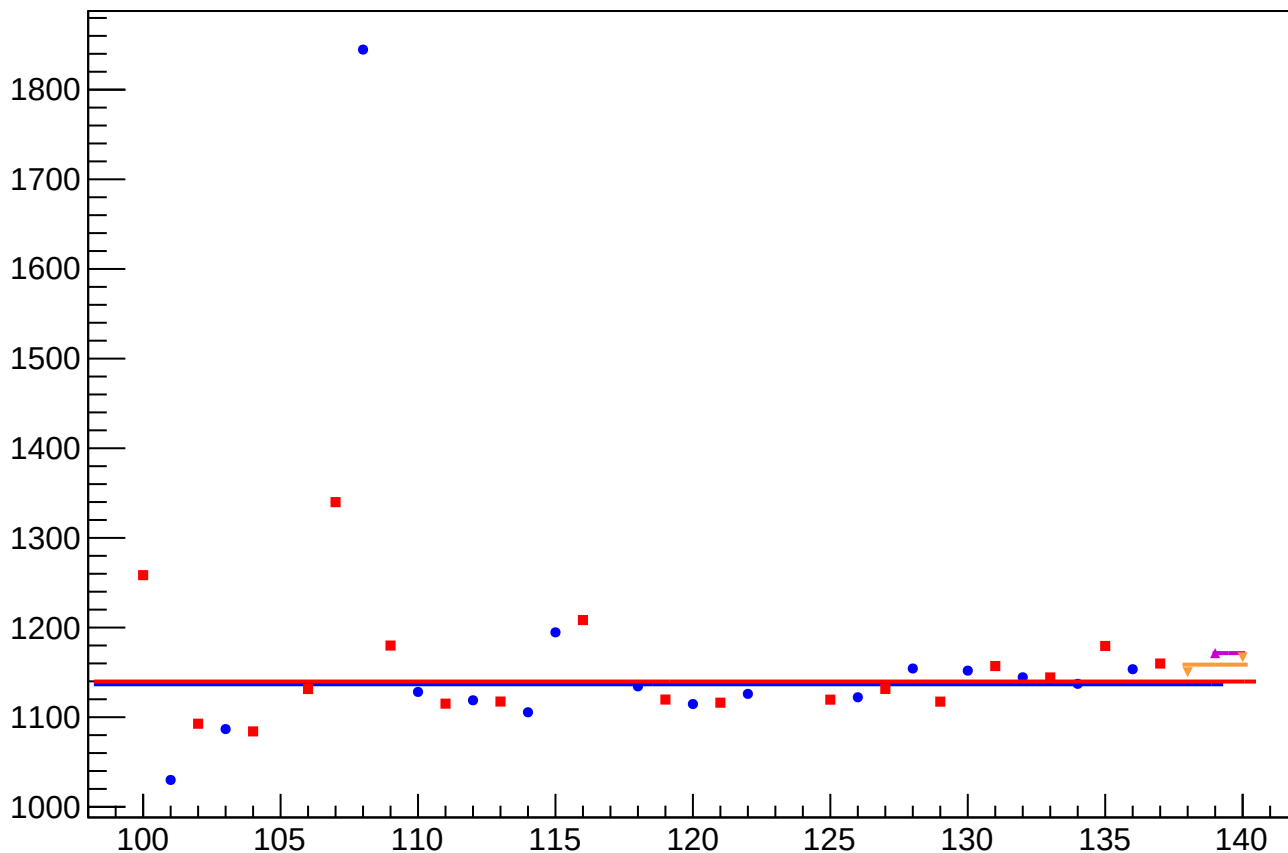
Right: 1910.242 $\pm$ 308.176  $\chi^2$ /NDF: 19.2/33

In: 1682.816 $\pm$ 417.908  $\chi^2$ /NDF: 5.8/16

Out: 1957.857 $\pm$ 391.506  $\chi^2$ /NDF: 13.7/19

All: 1829.299 $\pm$ 285.715  $\chi^2$ /NDF: 19.7/36

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



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

Left Out: 1158.635 $\pm$ 0.662  $\chi^2$ /NDF:157.2/1

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

Left In: 1171.503 $\pm$ 0.929  $\chi^2$ /NDF:0.0/0

Left: 1162.967 $\pm$ 0.539  $\chi^2$ /NDF: 284.5/2

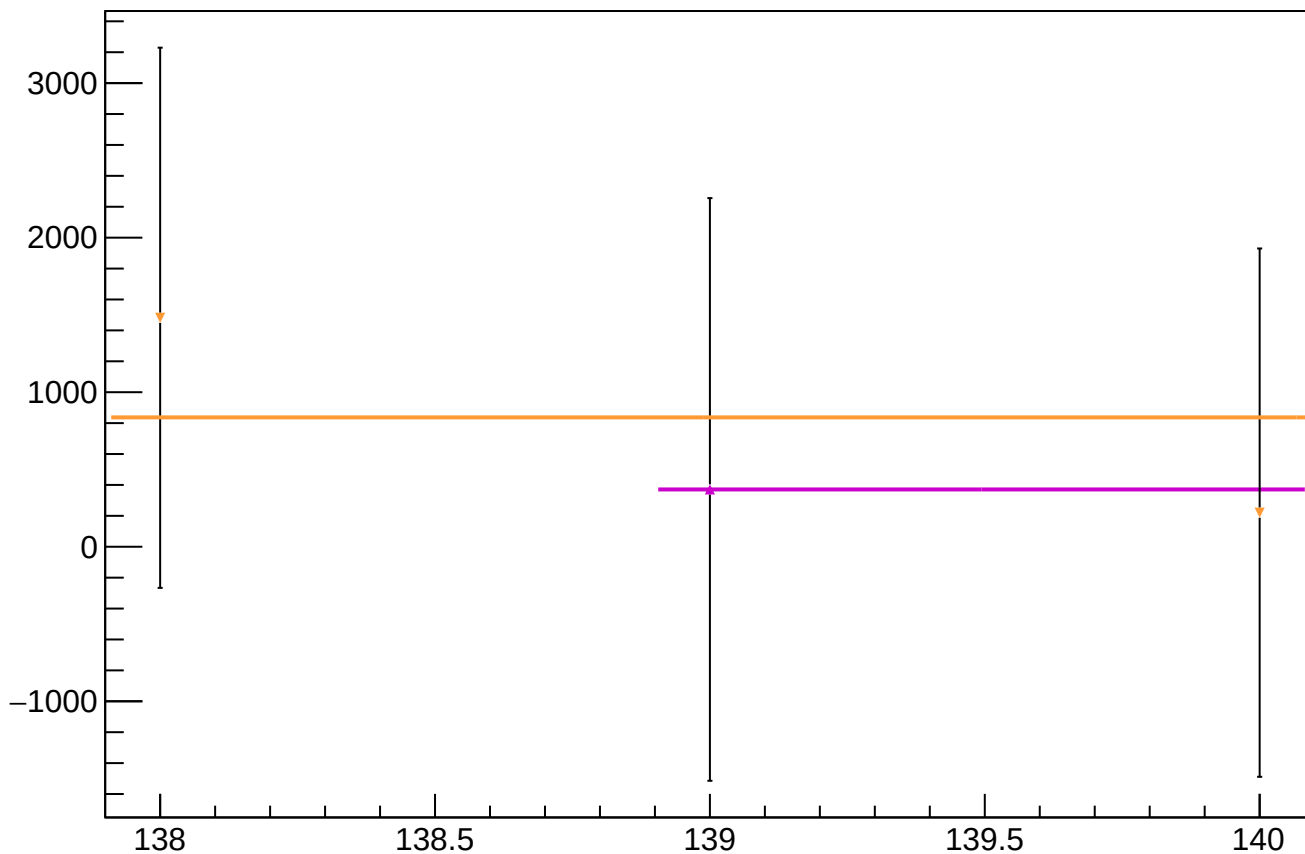
Right: 1138.298 $\pm$ 0.218  $\chi^2$ /NDF: 156913.9/33

In: 1140.255 $\pm$ 0.296  $\chi^2$ /NDF:130057.0/16

Out: 1143.087 $\pm$ 0.277  $\chi^2$ /NDF:28892.5/19

All: 1141.763 $\pm$ 0.202  $\chi^2$ /NDF: 158998.5/36

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



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

Left Out: 837.118+/-1222.059  $\chi^2$ /NDF:0.3/1

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

Left In: 370.758+/-1885.246  $\chi^2$ /NDF:0.0/0

Left: 699.136+/-1025.460  $\chi^2$ /NDF: 0.3/2

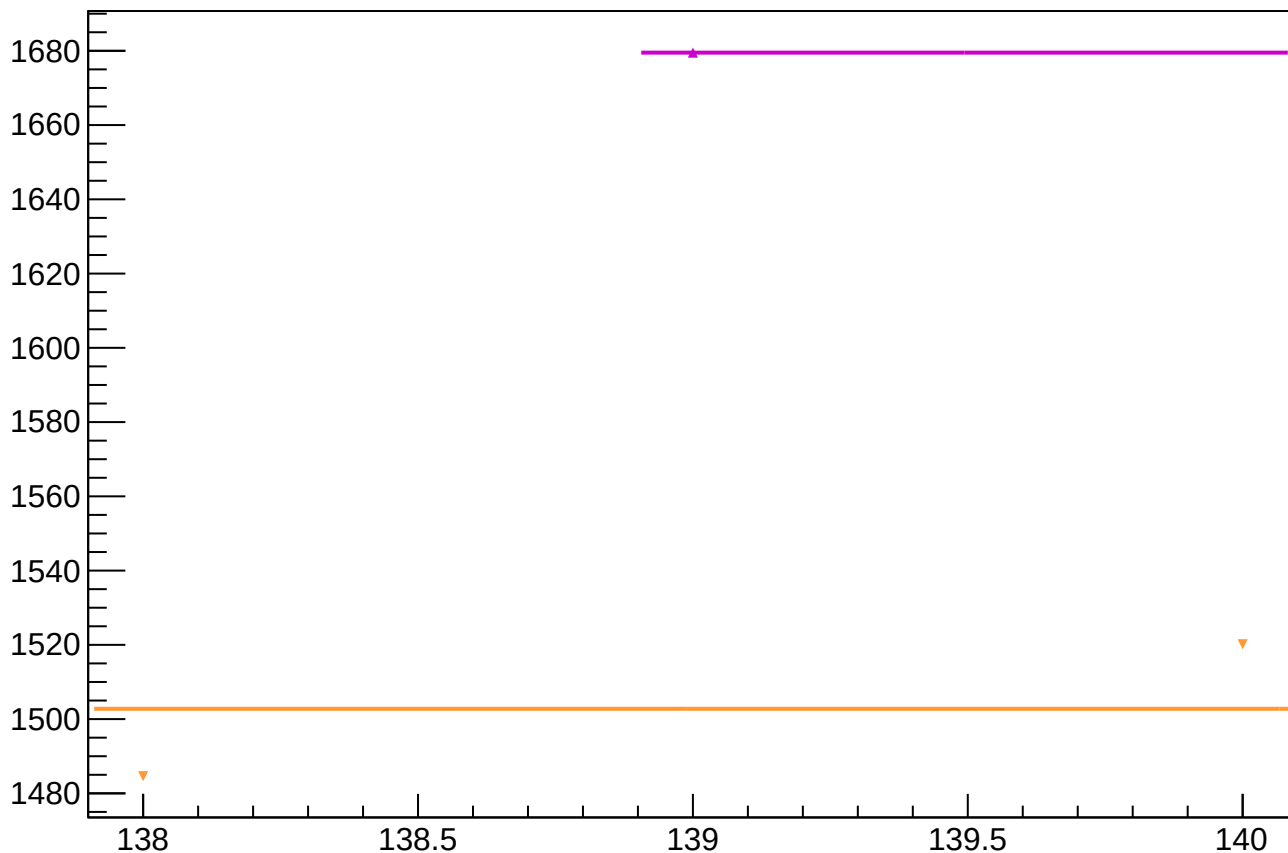
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 370.758+/-1885.246  $\chi^2$ /NDF:0.0/0

Out: 837.118+/-1222.059  $\chi^2$ /NDF:0.3/1

All: 699.136+/-1025.460  $\chi^2$ /NDF: 0.3/2

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



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

Left Out: 1502.779+/-0.864  $\chi^2/\text{NDF}$ :422.5/1

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

Left In: 1679.514+/-1.333  $\chi^2/\text{NDF}$ :0.0/0

Left: 1555.070+/-0.725  $\chi^2/\text{NDF}$ : 12798.8/2

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

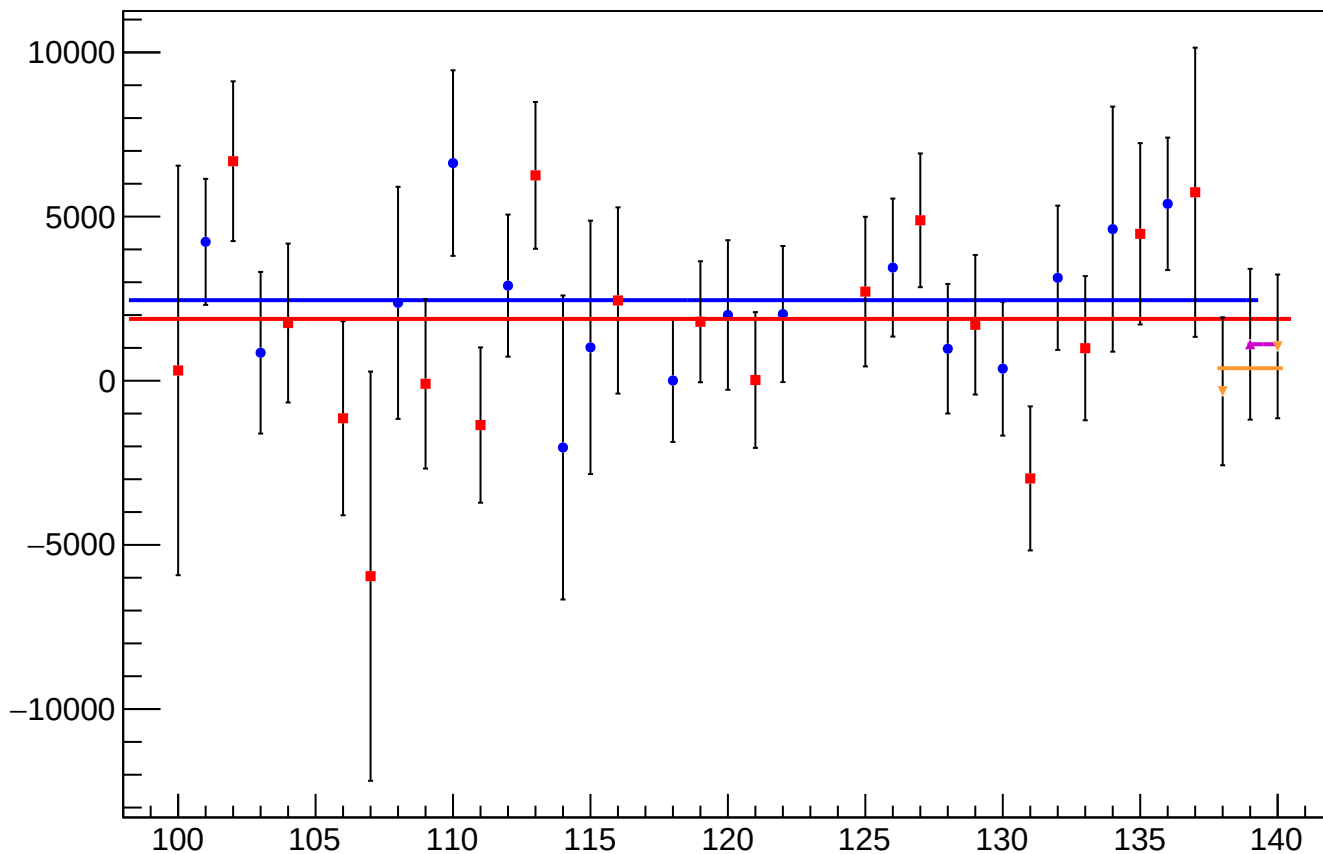
In: 1679.514+/-1.333  $\chi^2/\text{NDF}$ :0.0/0

Out: 1502.779+/-0.864  $\chi^2/\text{NDF}$ :422.5/1

All: 1555.070+/-0.725  $\chi^2/\text{NDF}$ : 12798.8/2



# asym\_usl\_mean vs Slug, Sign Corrected



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

Left Out: 381.356+/-1569.749  $\chi^2/\text{NDF}$ : 0.2/1

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

Left In: 1111.596+/-2296.306  $\chi^2/\text{NDF}$ : 0.0/0

Left: 613.922+/-1295.896  $\chi^2/\text{NDF}$ : 0.3/2

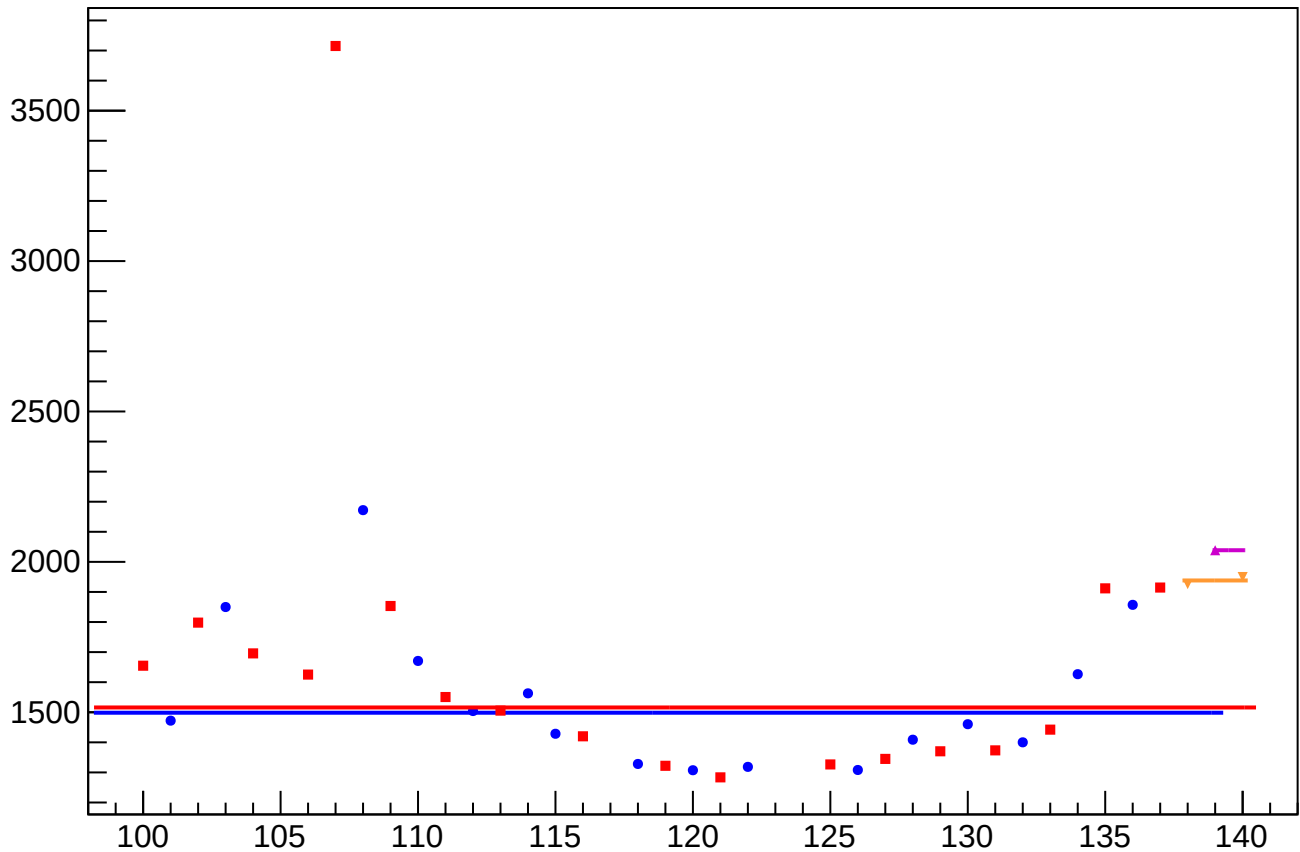
Right: 2167.665+/-412.771  $\chi^2/\text{NDF}$ : 34.0/33

In: 2372.059+/-566.262  $\chi^2/\text{NDF}$ : 11.1/16

Out: 1700.658+/-546.680  $\chi^2/\text{NDF}$ : 23.7/19

All: 2024.549+/-393.302  $\chi^2/\text{NDF}$ : 35.5/36

# asym\_usl\_rms vs Slug, Sign Corrected



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

Left Out: 1938.168 $\pm$ 1.110  $\chi^2$ /NDF:112.2/1

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

Left In: 2038.710 $\pm$ 1.624  $\chi^2$ /NDF:0.0/0

Left: 1970.189 $\pm$ 0.916  $\chi^2$ /NDF: 2725.2/2

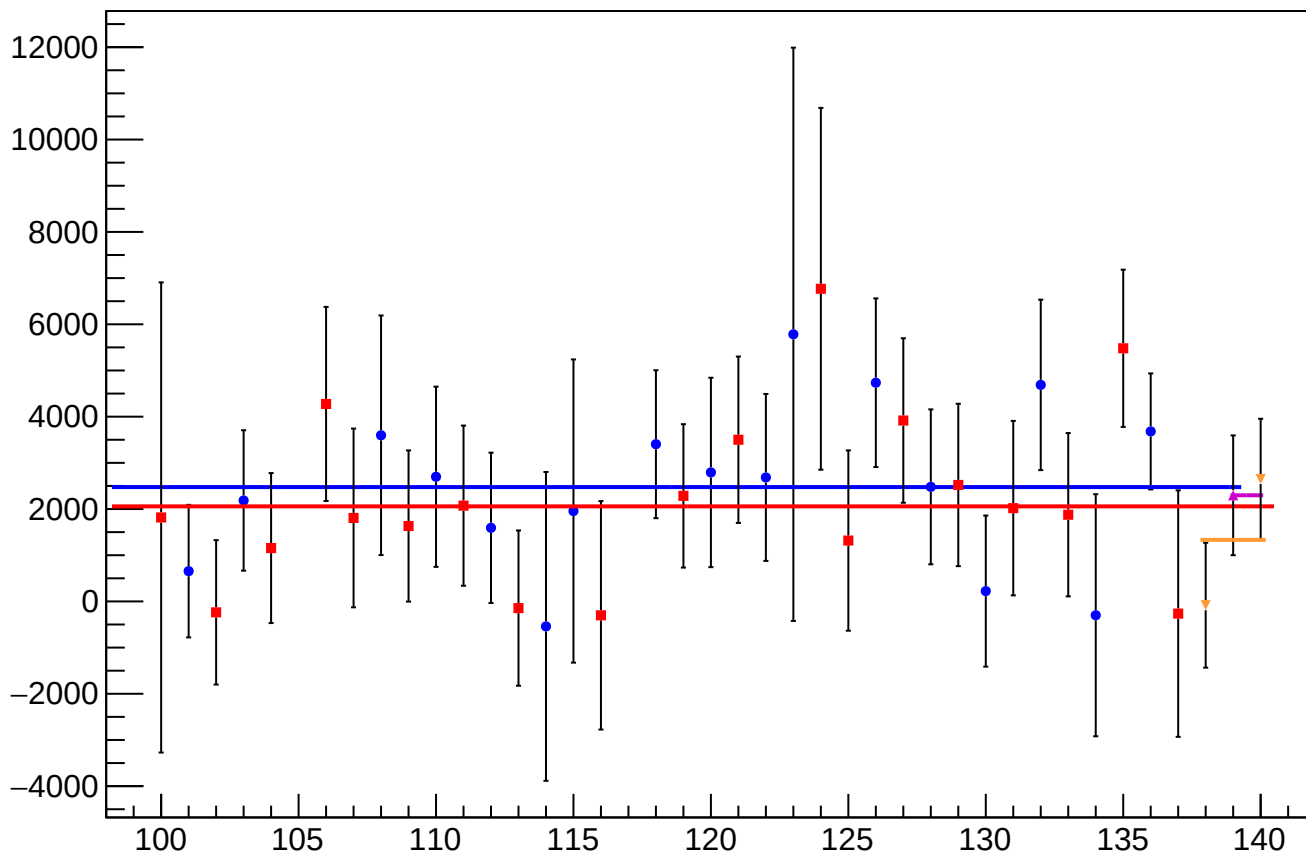
Right: 1507.233 $\pm$ 0.292  $\chi^2$ /NDF: 740243.9/33

In: 1531.336 $\pm$ 0.400  $\chi^2$ /NDF:362769.2/16

Out: 1567.157 $\pm$ 0.387  $\chi^2$ /NDF:607797.2/19

All: 1549.877 $\pm$ 0.278  $\chi^2$ /NDF: 974709.0/36

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



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

Left Out: 1332.529+/-939.024  $\chi^2/\text{NDF}$ : 2.1/1

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

Left In: 2297.767+/-1296.753  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1664.563+/-760.556  $\chi^2/\text{NDF}$ : 2.5/2

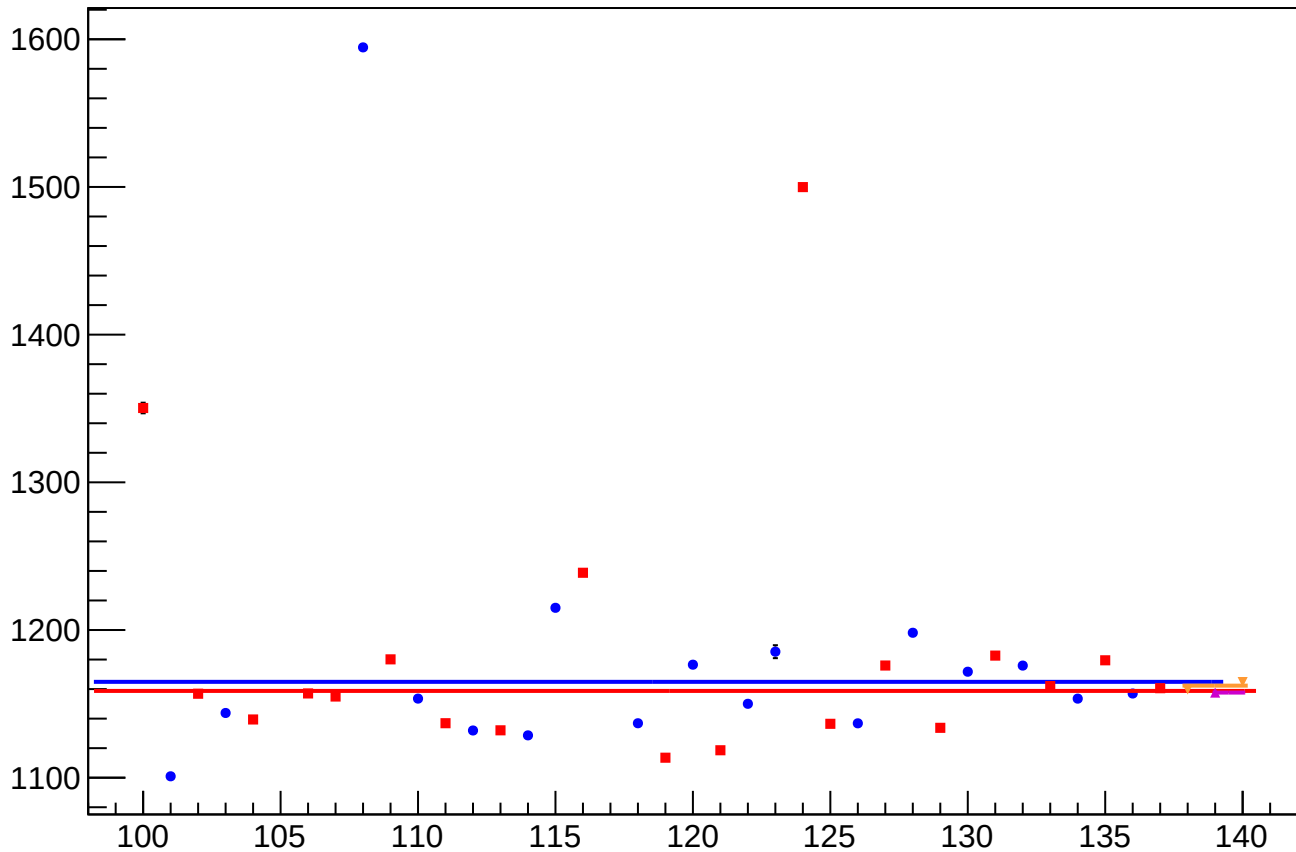
Right: 2259.079+/-312.021  $\chi^2/\text{NDF}$ : 25.5/35

In: 2456.265+/-424.606  $\chi^2/\text{NDF}$ : 10.6/17

Out: 1930.349+/-393.639  $\chi^2/\text{NDF}$ : 17.1/20

All: 2173.433+/-288.672  $\chi^2/\text{NDF}$ : 28.5/38

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



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

Left Out: 1162.330 $\pm$ 0.664  $\chi^2$ /NDF:14.3/1

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

Left In: 1157.633 $\pm$ 0.917  $\chi^2$ /NDF:0.0/0

Left: 1160.714 $\pm$ 0.538  $\chi^2$ /NDF: 31.5/2

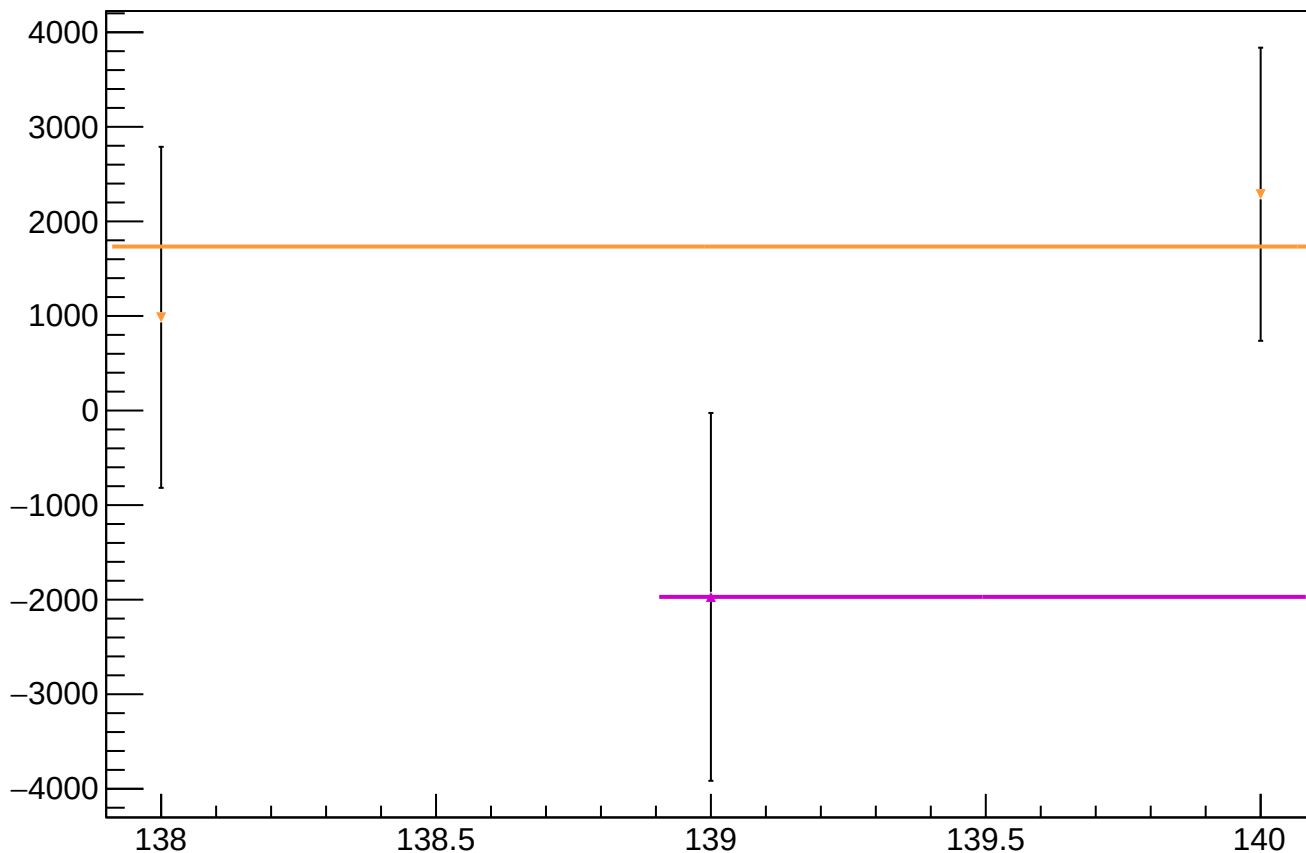
Right: 1161.721 $\pm$ 0.221  $\chi^2$ /NDF: 89053.7/35

In: 1164.125 $\pm$ 0.300  $\chi^2$ /NDF:63192.5/17

Out: 1159.385 $\pm$ 0.278  $\chi^2$ /NDF:25761.7/20

All: 1161.576 $\pm$ 0.204  $\chi^2$ /NDF: 89088.2/38

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



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

Left Out: 1734.097+/-1175.367  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: -1970.430+/-1944.896  $\chi^2/\text{NDF}$ : 0.0/0

Left: 743.073+/-1005.940  $\chi^2/\text{NDF}$ : 3.0/2

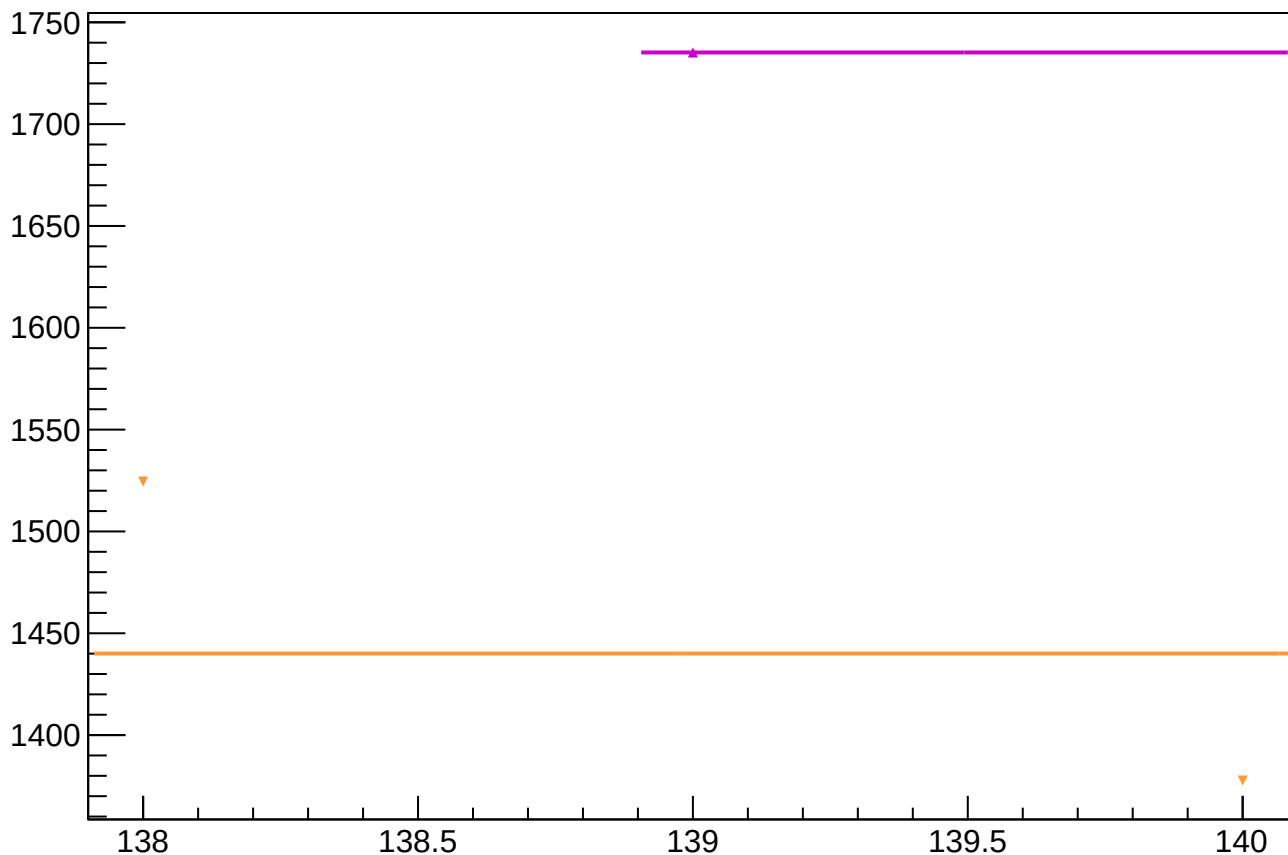
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1970.430+/-1944.896  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1734.097+/-1175.367  $\chi^2/\text{NDF}$ : 0.3/1

All: 743.073+/-1005.940  $\chi^2/\text{NDF}$ : 3.0/2

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



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

Left Out: 1440.049+/-0.831  $\chi^2/\text{NDF}$ : 7623.5/1

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

Left In: 1735.191+/-1.375  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1519.005+/-0.711  $\chi^2/\text{NDF}$ : 41359.7/2

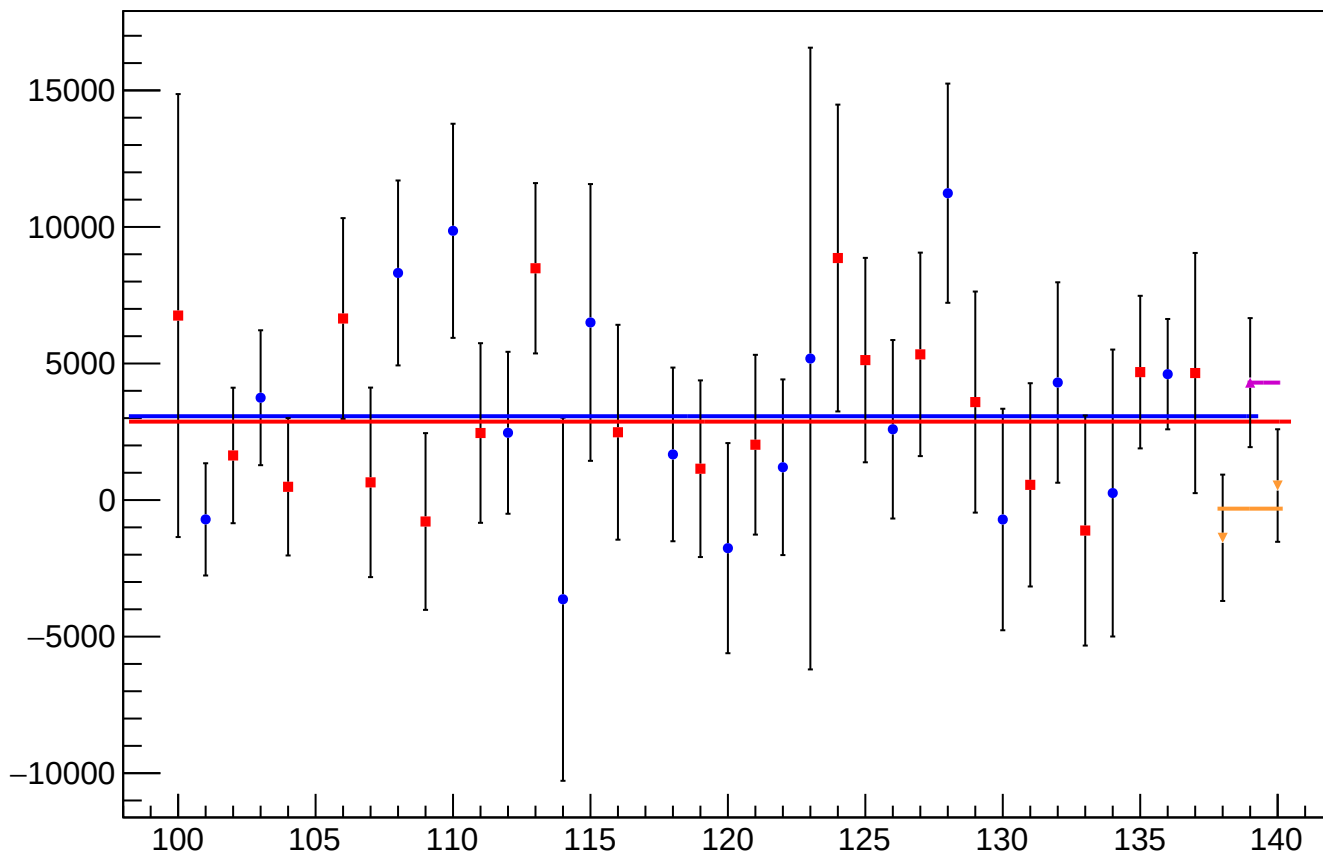
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1735.191+/-1.375  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1440.049+/-0.831  $\chi^2/\text{NDF}$ : 7623.5/1

All: 1519.005+/-0.711  $\chi^2/\text{NDF}$ : 41359.7/2

# asym\_usr\_mean vs Slug, Sign Corrected



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

Left Out: -314.886 $\pm$ 1538.649  $\chi^2$ /NDF:0.4/1

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

Left In: 4300.197 $\pm$ 2362.363  $\chi^2$ /NDF:0.0/0

Left: 1059.757 $\pm$ 1289.293  $\chi^2$ /NDF: 3.1/2

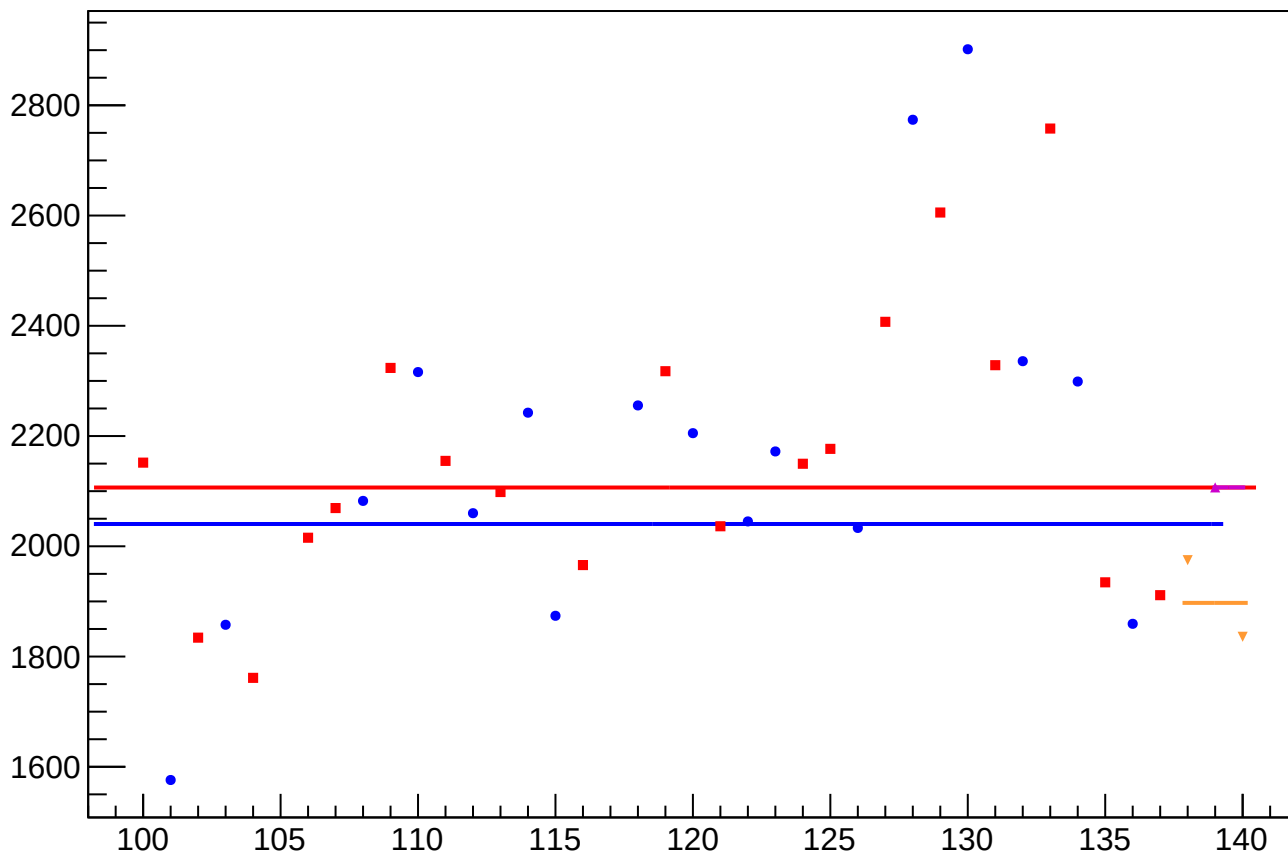
Right: 2970.754 $\pm$ 563.242  $\chi^2$ /NDF: 30.1/35

In: 3195.461 $\pm$ 755.810  $\chi^2$ /NDF:18.8/17

Out: 2200.498 $\pm$ 706.540  $\chi^2$ /NDF:15.3/20

All: 2664.495 $\pm$ 516.139  $\chi^2$ /NDF: 35.0/38

# asym\_usr\_rms vs Slug, Sign Corrected



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

Left Out: 1897.343+/-1.088  $\chi^2/\text{NDF}$ : 4024.8/1

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

Left In: 2106.852+/-1.670  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1959.747+/-0.912  $\chi^2/\text{NDF}$ : 15069.8/2

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

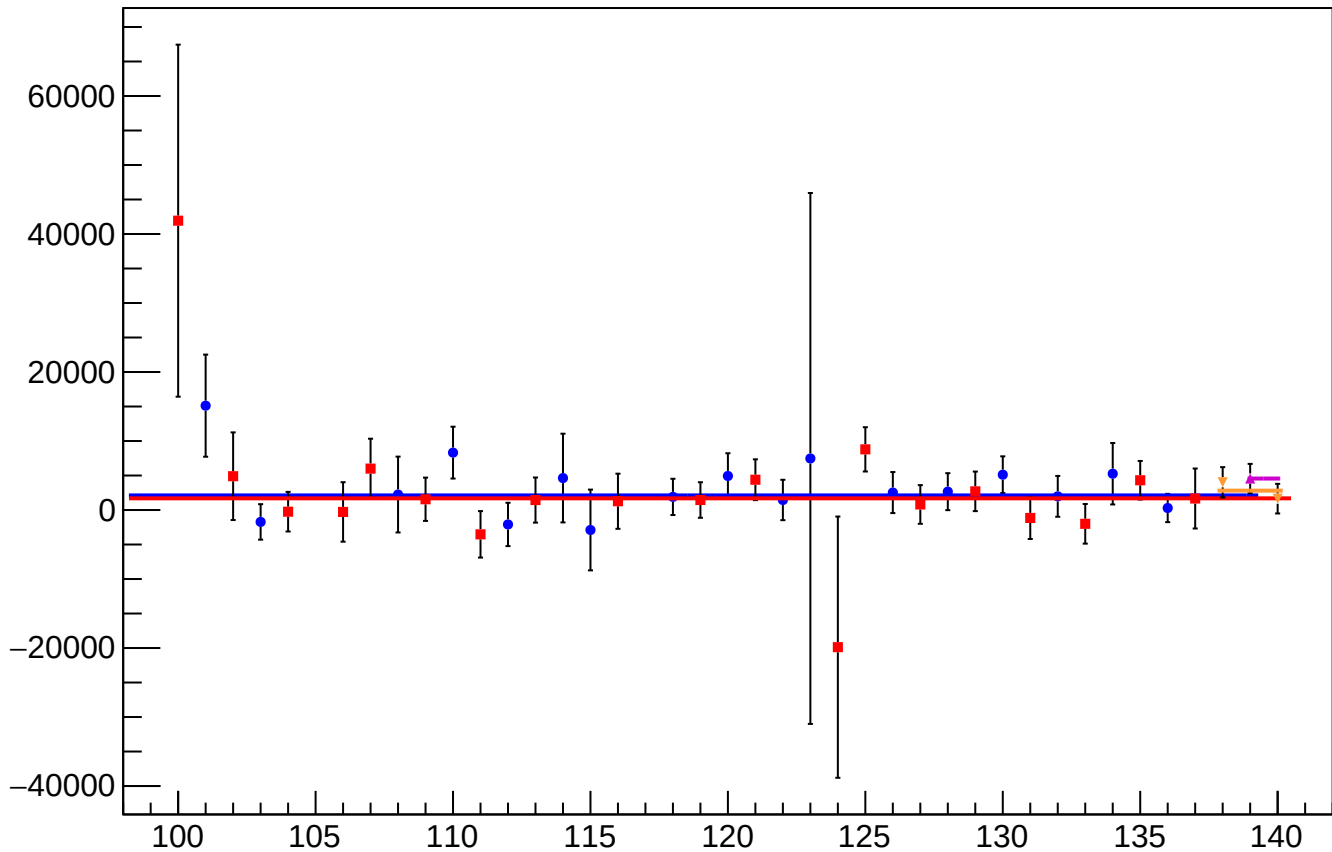
In: 2047.232+/-0.534  $\chi^2/\text{NDF}$ : 332759.0/17

Out: 2062.495+/-0.500  $\chi^2/\text{NDF}$ : 228638.4/20

All: 2055.377+/-0.365  $\chi^2/\text{NDF}$ : 561832.7/38



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



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

Left Out: 2807.894 $\pm$ 1534.634  $\chi^2$ /NDF:0.6/1

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

Left In: 4560.562 $\pm$ 2122.355  $\chi^2$ /NDF:0.0/0

Left: 3409.646 $\pm$ 1243.589  $\chi^2$ /NDF: 1.0/2

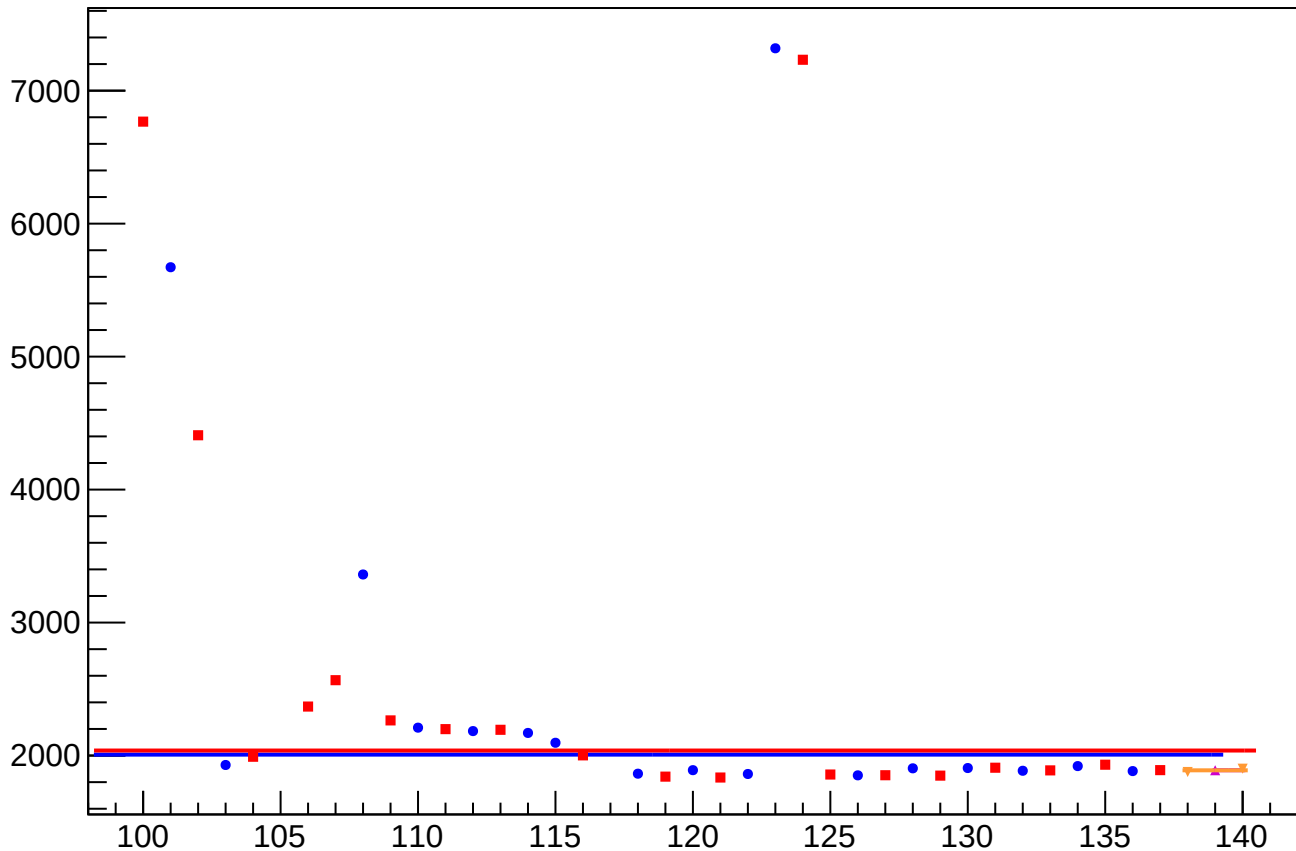
Right: 1900.096 $\pm$ 558.740  $\chi^2$ /NDF: 31.8/35

In: 2416.472 $\pm$ 745.135  $\chi^2$ /NDF:15.3/17

Out: 1922.583 $\pm$ 698.647  $\chi^2$ /NDF:18.5/20

All: 2153.642 $\pm$ 509.661  $\chi^2$ /NDF: 34.0/38

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



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

Left Out: 1888.971+/-1.085  $\chi^2/\text{NDF}$ :130.5/1

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

Left In: 1889.648+/-1.501  $\chi^2/\text{NDF}$ :0.0/0

Left: 1889.203+/-0.879  $\chi^2/\text{NDF}$ : 130.7/2

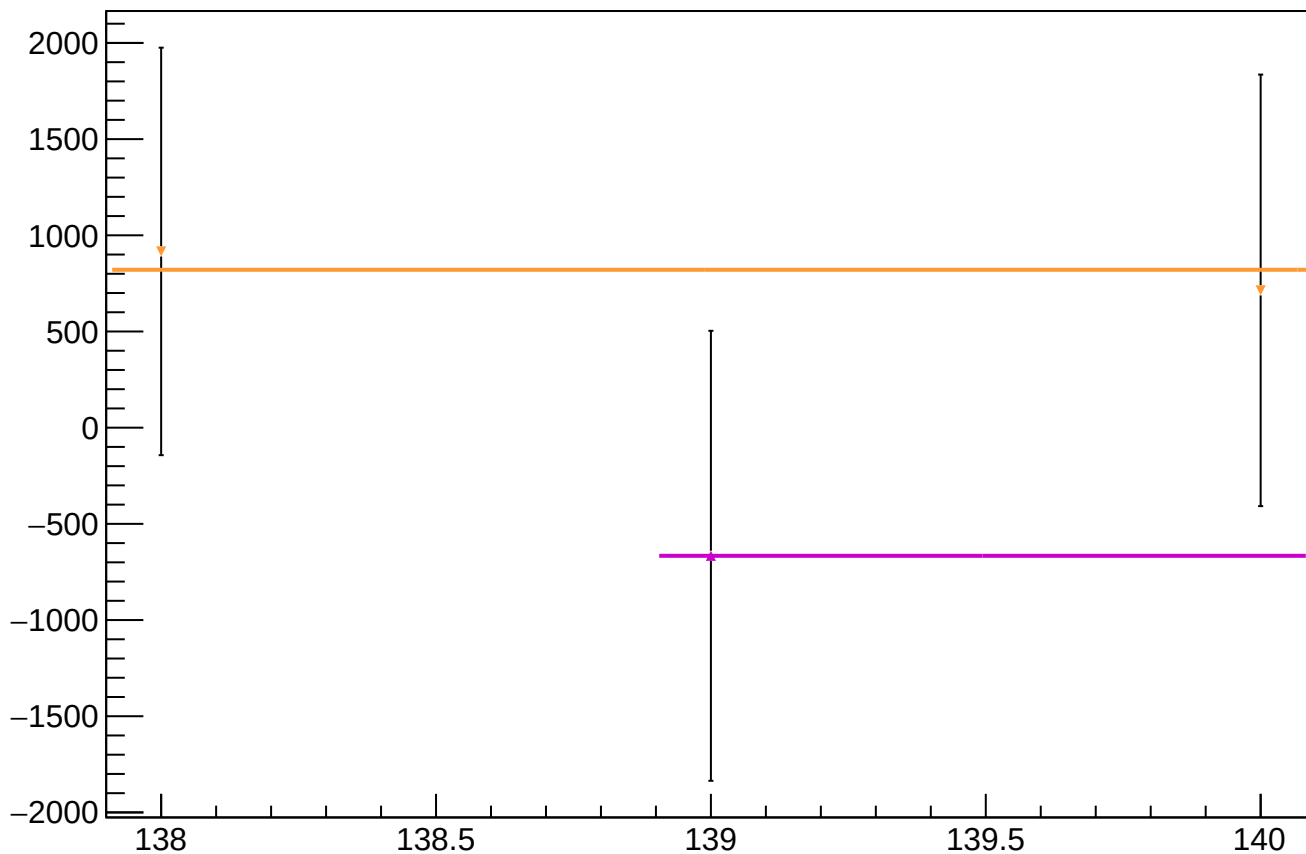
Right: 2022.626+/-0.395  $\chi^2/\text{NDF}$ : 1322841.6/35

In: 1992.568+/-0.527  $\chi^2/\text{NDF}$ :707726.1/17

Out: 2006.939+/-0.494  $\chi^2/\text{NDF}$ :634005.0/20

All: 2000.216+/-0.360  $\chi^2/\text{NDF}$ : 1342127.0/38

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



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

Left Out: 820.849 $\pm$ 770.087  $\chi^2$ /NDF:0.0/1

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

Left In: -666.058 $\pm$ 1169.604  $\chi^2$ /NDF:0.0/0

Left: 371.189 $\pm$ 643.190  $\chi^2$ /NDF: 1.1/2

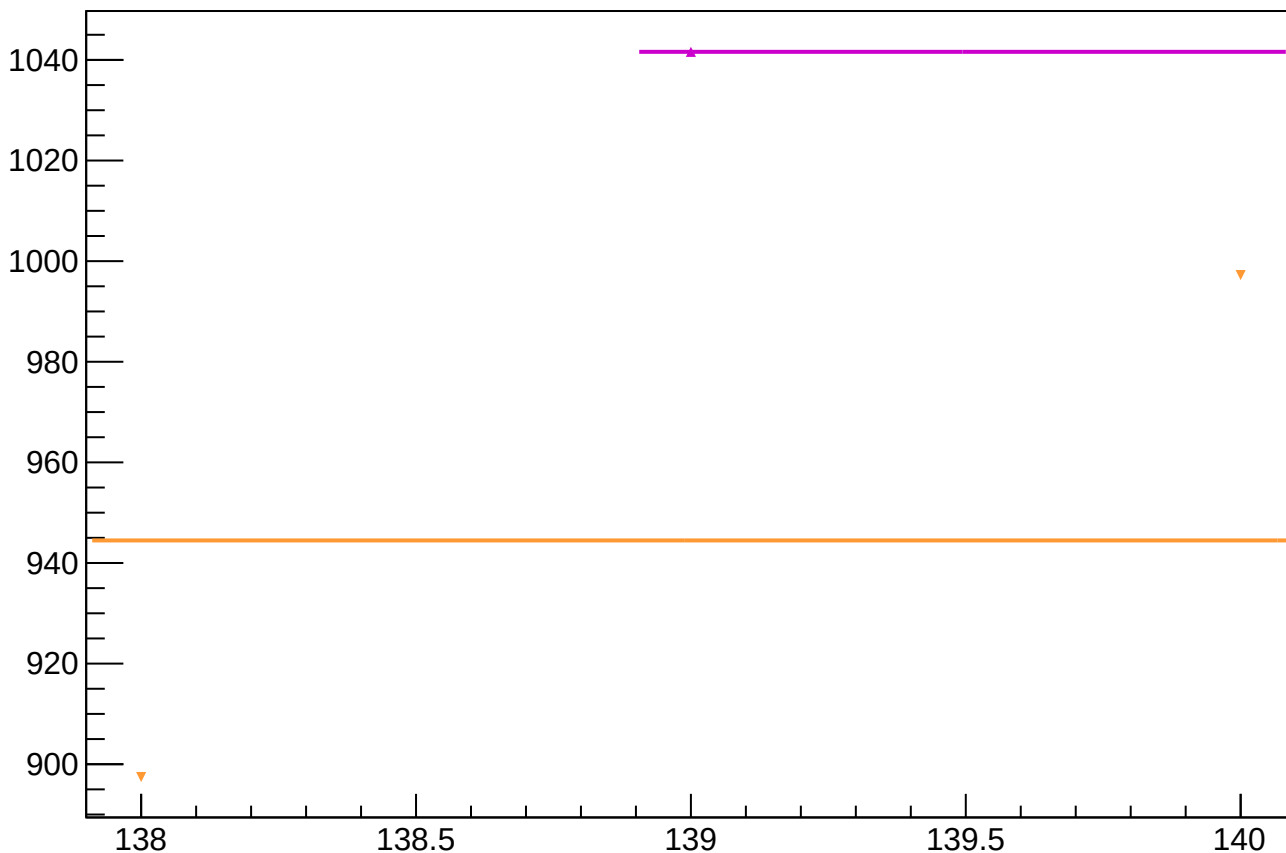
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -666.058 $\pm$ 1169.604  $\chi^2$ /NDF:0.0/0

Out: 820.849 $\pm$ 770.087  $\chi^2$ /NDF:0.0/1

All: 371.189 $\pm$ 643.190  $\chi^2$ /NDF: 1.1/2

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



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

Left Out: 944.484+/-0.545  $\chi^2/\text{NDF}$ : 8366.3/1

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

Left In: 1041.608+/-0.827  $\chi^2/\text{NDF}$ : 0.0/0

Left: 973.856+/-0.455  $\chi^2/\text{NDF}$ : 17986.8/2

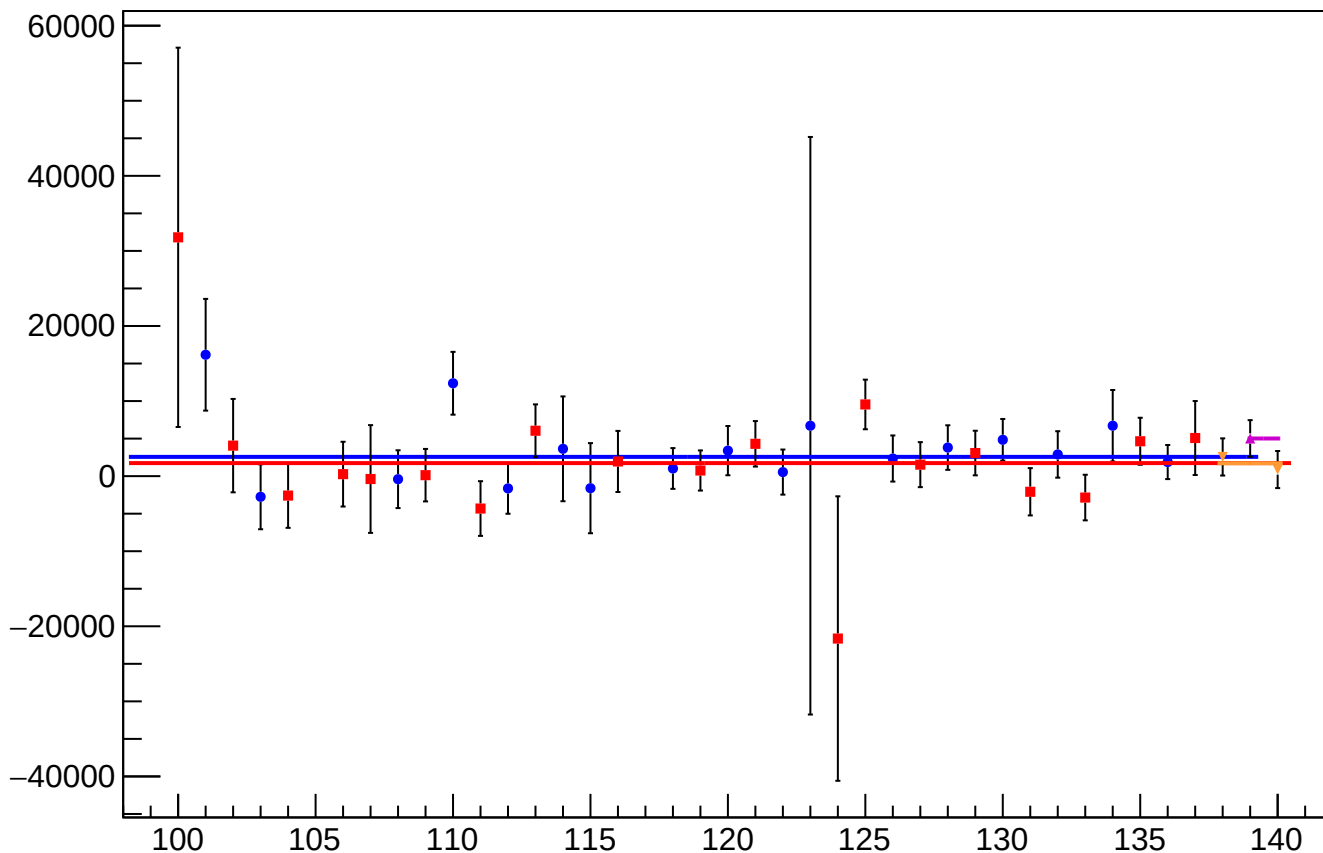
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1041.608+/-0.827  $\chi^2/\text{NDF}$ : 0.0/0

Out: 944.484+/-0.545  $\chi^2/\text{NDF}$ : 8366.3/1

All: 973.856+/-0.455  $\chi^2/\text{NDF}$ : 17986.8/2

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



Right In: 2566.797+/-856.089  $\chi^2/\text{NDF}$ : 15.6/16

Left Out: 1714.336+/-1748.506  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 1737.684+/-853.181  $\chi^2/\text{NDF}$ : 20.5/18

Left In: 5014.707+/-2444.379  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2831.457+/-1422.124  $\chi^2/\text{NDF}$ : 1.4/2

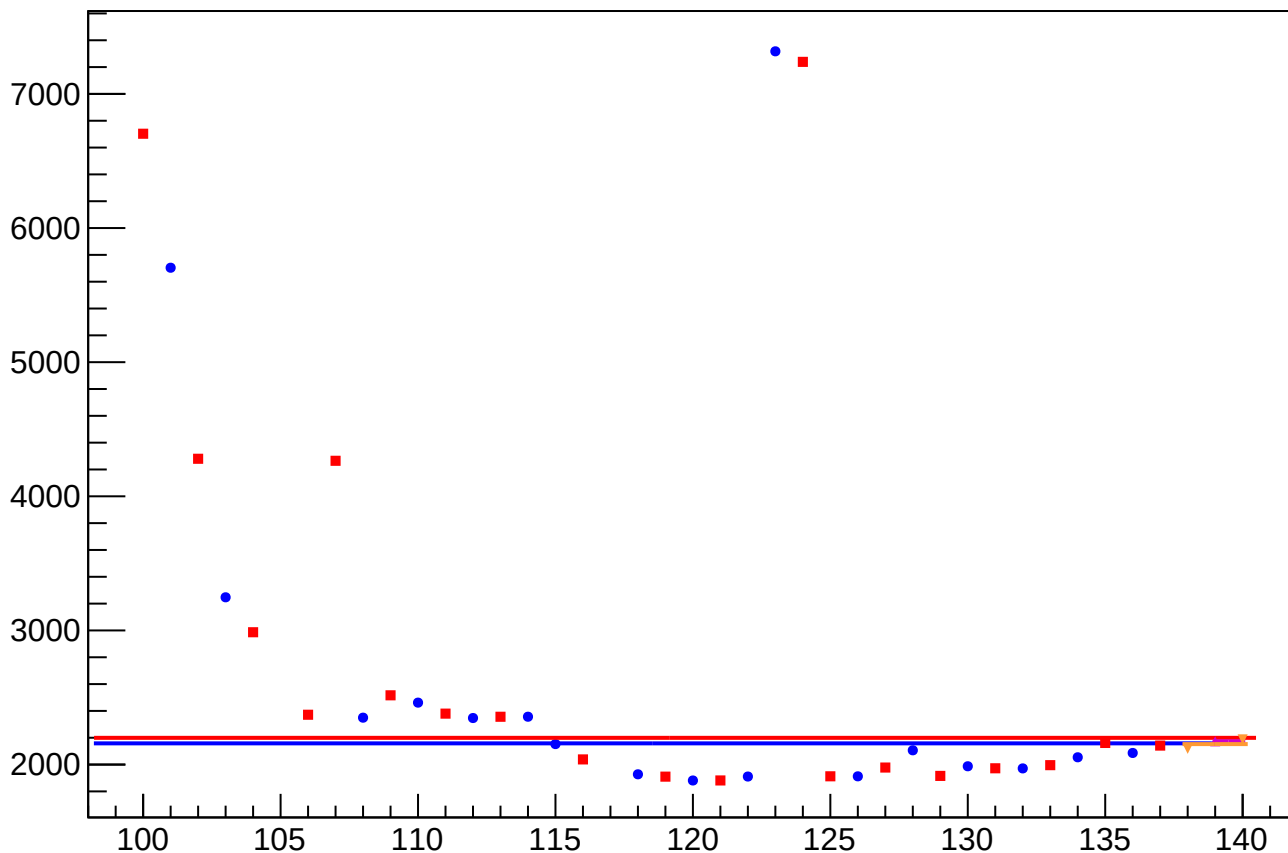
Right: 2150.830+/-604.316  $\chi^2/\text{NDF}$ : 36.5/35

In: 2834.250+/-807.969  $\chi^2/\text{NDF}$ : 16.5/17

Out: 1733.194+/-766.769  $\chi^2/\text{NDF}$ : 20.7/20

All: 2254.934+/-556.183  $\chi^2/\text{NDF}$ : 38.2/38

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



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

Left Out: 2152.613 $\pm$ 1.236  $\chi^2$ /NDF:809.7/1

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

Left In: 2173.472 $\pm$ 1.728  $\chi^2$ /NDF:0.0/0

Left: 2159.673 $\pm$ 1.006  $\chi^2$ /NDF: 906.0/2

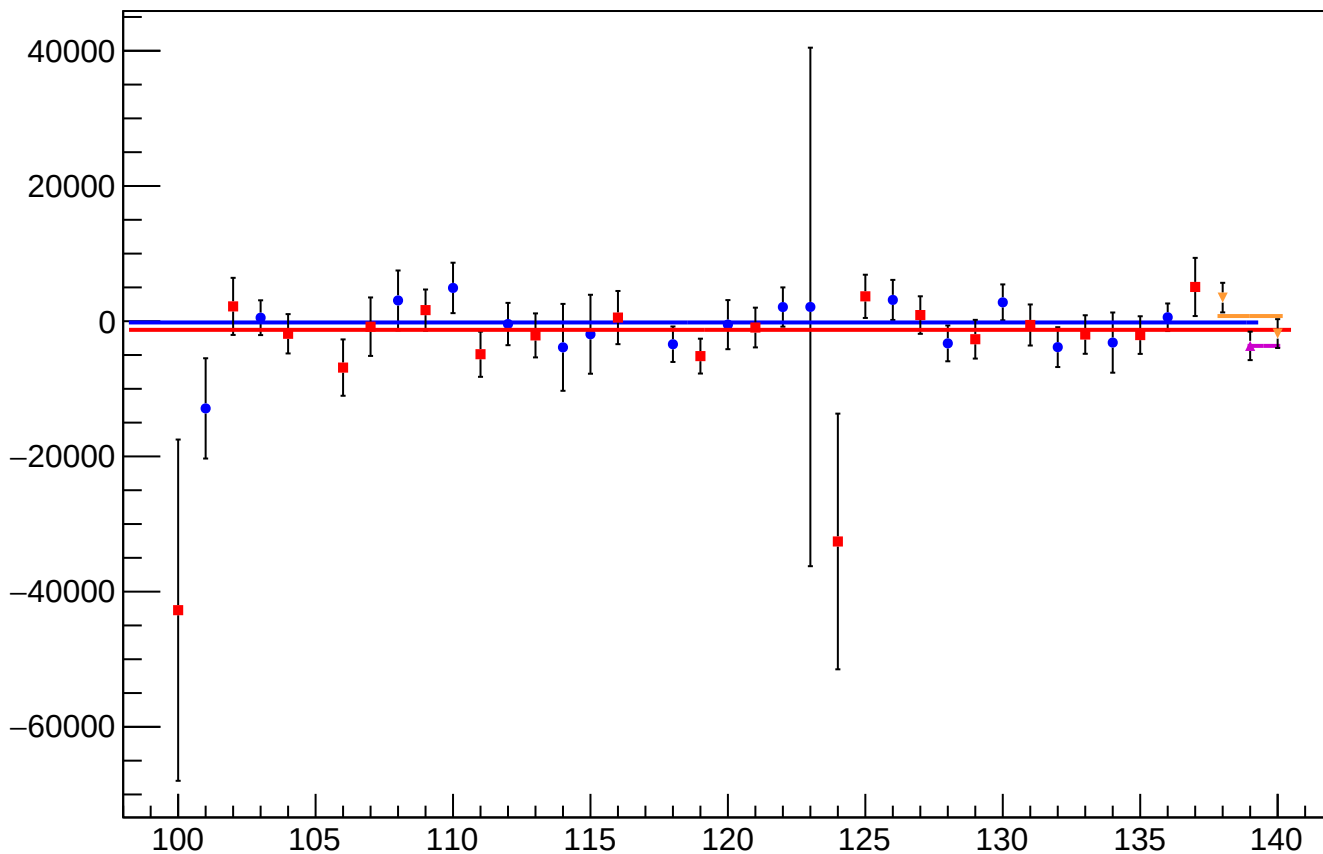
Right: 2178.816 $\pm$ 0.427  $\chi^2$ /NDF: 1519207.5/35

In: 2159.823 $\pm$ 0.571  $\chi^2$ /NDF:713932.1/17

Out: 2190.357 $\pm$ 0.542  $\chi^2$ /NDF:804985.5/20

All: 2175.888 $\pm$ 0.393  $\chi^2$ /NDF: 1520420.5/38

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



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

Left Out: 764.544+/-1527.100  $\chi^2/\text{NDF}$ : 3.0/1

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

Left In: -3650.233+/-2103.467  $\chi^2/\text{NDF}$ : 0.0/0

Left: -759.210+/-1235.773  $\chi^2/\text{NDF}$ : 5.9/2

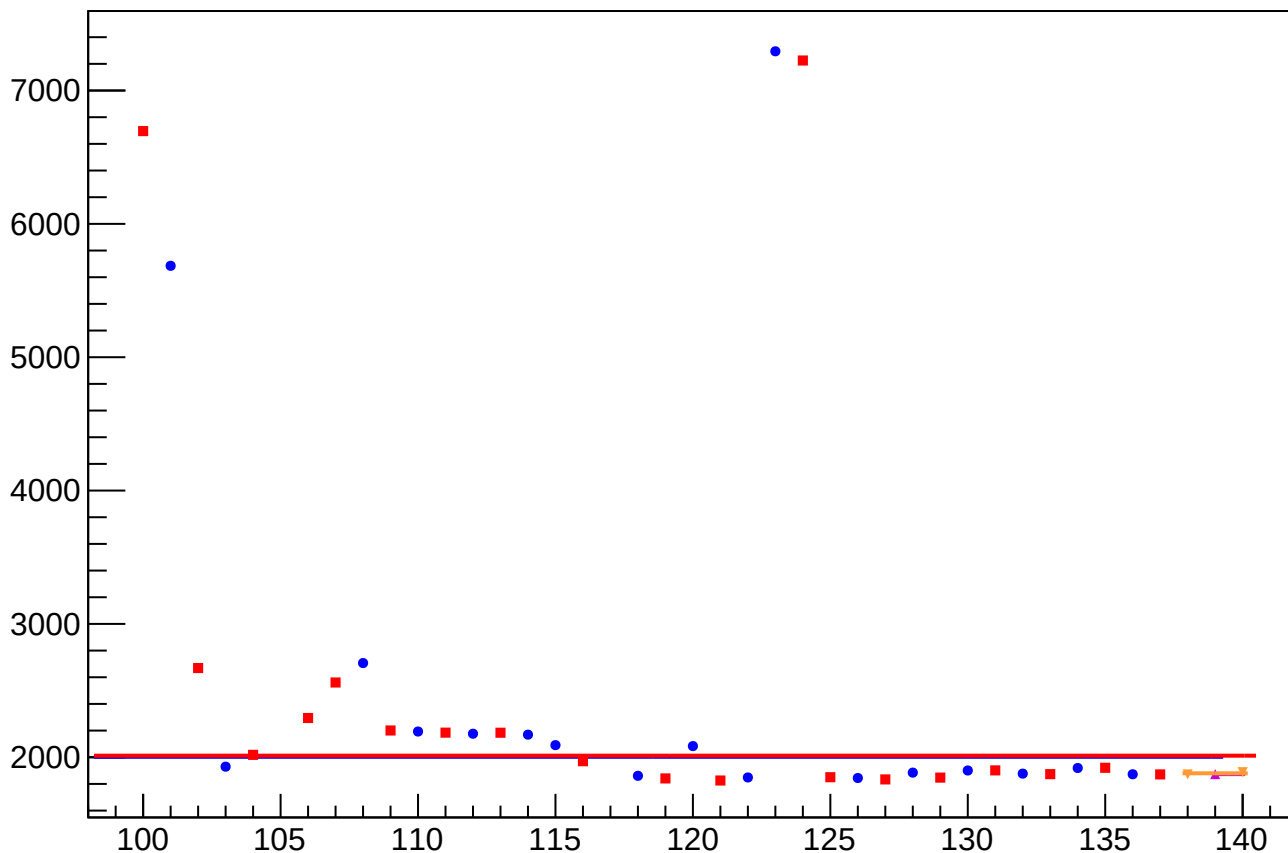
Right: -745.132+/-553.094  $\chi^2/\text{NDF}$ : 33.2/35

In: -615.090+/-741.516  $\chi^2/\text{NDF}$ : 16.4/17

Out: -861.864+/-689.239  $\chi^2/\text{NDF}$ : 22.7/20

All: -747.482+/-504.836  $\chi^2/\text{NDF}$ : 39.1/38

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



Right In: 2003.545+/-0.560  $\chi^2/\text{NDF}$ : 634133.6/16

Left Out: 1879.681+/-1.080  $\chi^2/\text{NDF}$ :60.2/1

Right Out: 2011.800+/-0.546  $\chi^2/\text{NDF}$ : 377955.0/18

Left In: 1873.550+/-1.487  $\chi^2/\text{NDF}$ :0.0/0

Left: 1877.565+/-0.874  $\chi^2/\text{NDF}$ : 71.3/2

Right: 2007.778+/-0.391  $\chi^2/\text{NDF}$ : 1012199.9/35

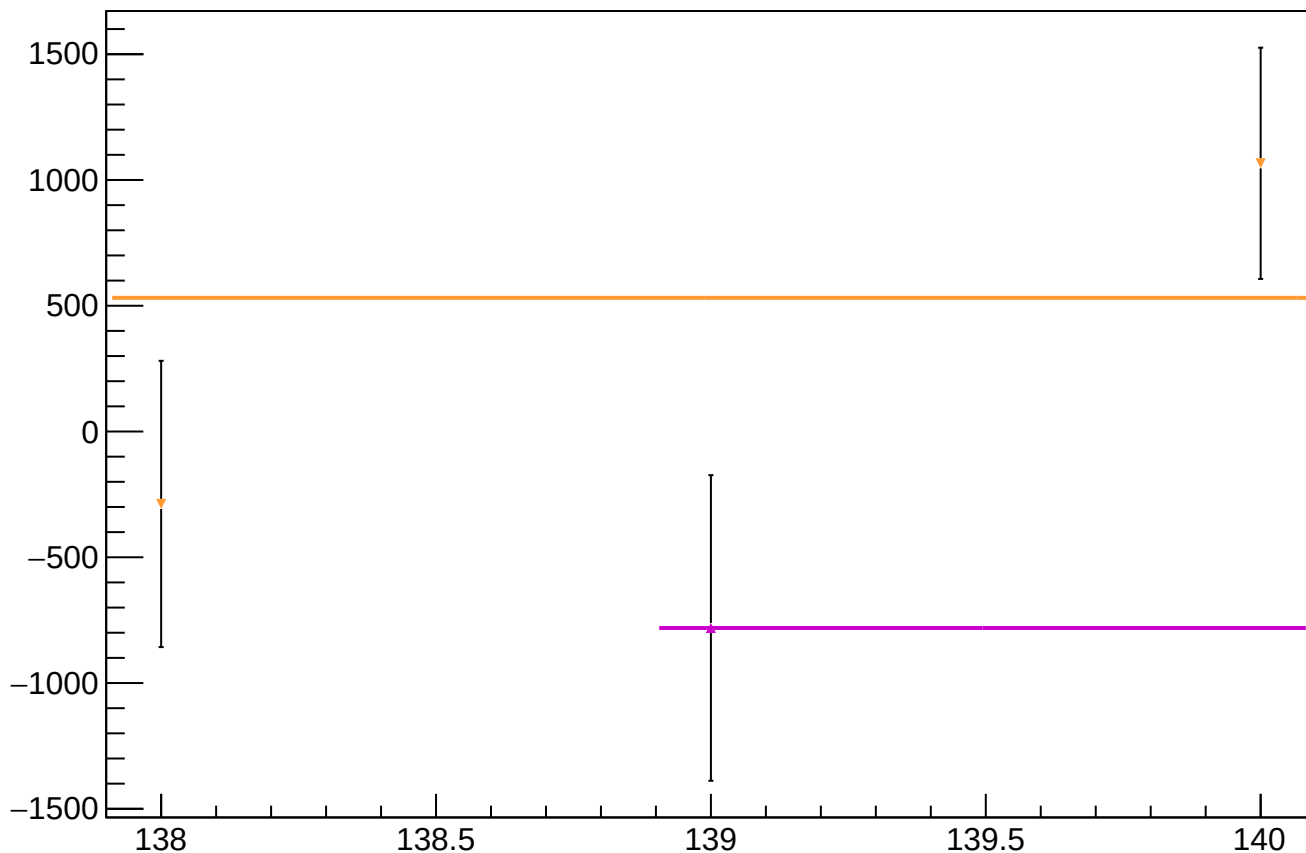
In: 1987.390+/-0.524  $\chi^2/\text{NDF}$ :640822.9/17

Out: 1984.887+/-0.487  $\chi^2/\text{NDF}$ :389935.8/20

All: 1986.047+/-0.357  $\chi^2/\text{NDF}$ : 1030770.9/38



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



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

Left Out: 531.505+/-357.606  $\chi^2$ /NDF:3.4/1

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

Left In: -781.082+/-607.592  $\chi^2$ /NDF:0.0/0

Left: 193.799+/-308.189  $\chi^2$ /NDF: 6.9/2

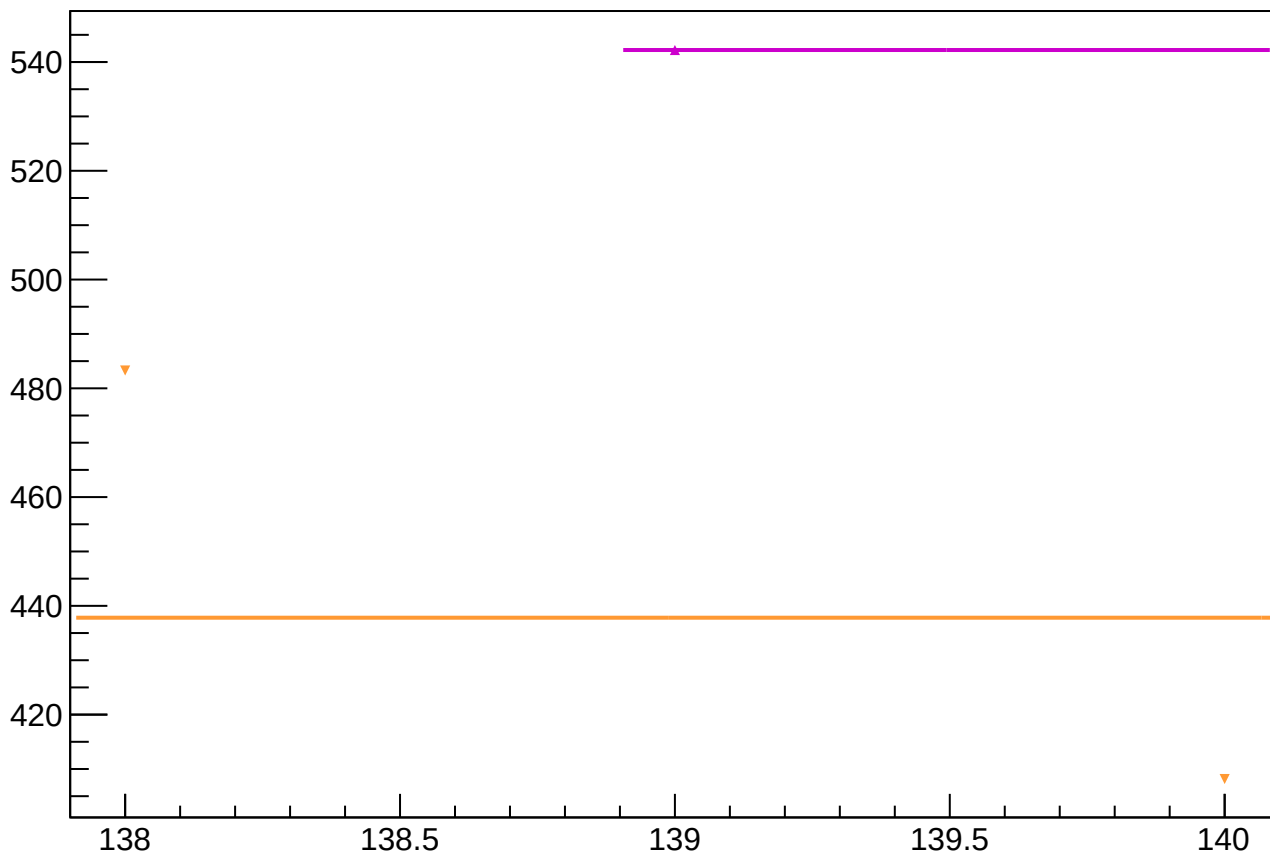
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -781.082+/-607.592  $\chi^2$ /NDF:0.0/0

Out: 531.505+/-357.606  $\chi^2$ /NDF:3.4/1

All: 193.799+/-308.189  $\chi^2$ /NDF: 6.9/2

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



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

Left Out: 437.820+/-0.253  $\chi^2/\text{NDF}$ : 21090.0/1

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

Left In: 542.211+/-0.430  $\chi^2/\text{NDF}$ : 0.0/0

Left: 464.678+/-0.218  $\chi^2/\text{NDF}$ : 64938.5/2

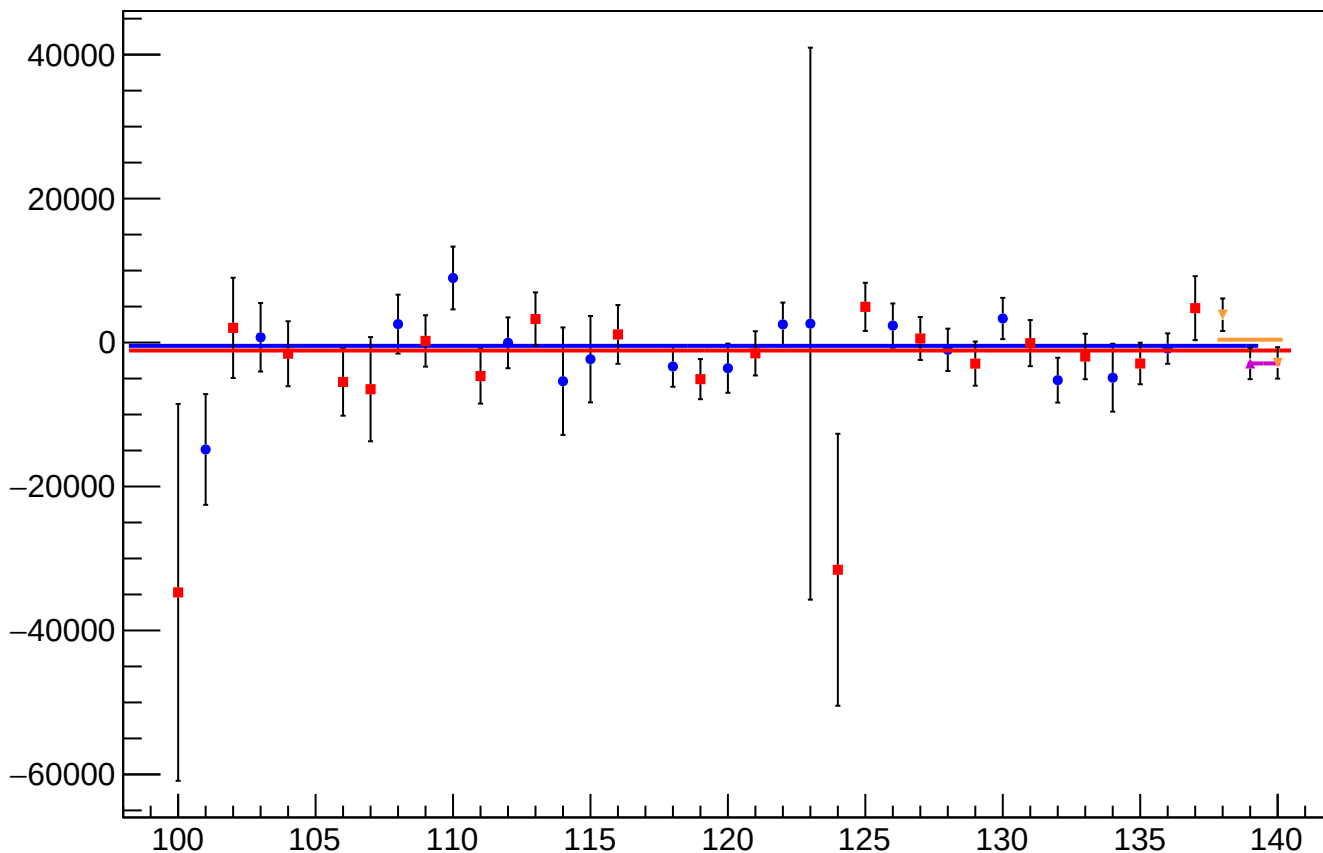
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 542.211+/-0.430  $\chi^2/\text{NDF}$ : 0.0/0

Out: 437.820+/-0.253  $\chi^2/\text{NDF}$ : 21090.0/1

All: 464.678+/-0.218  $\chi^2/\text{NDF}$ : 64938.5/2

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



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

Left Out: 396.382+/-1570.896  $\chi^2/\text{NDF}$ : 4.5/1

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

Left In: -2902.124+/-2184.301  $\chi^2/\text{NDF}$ : 0.0/0

Left: -728.069+/-1275.334  $\chi^2/\text{NDF}$ : 6.0/2

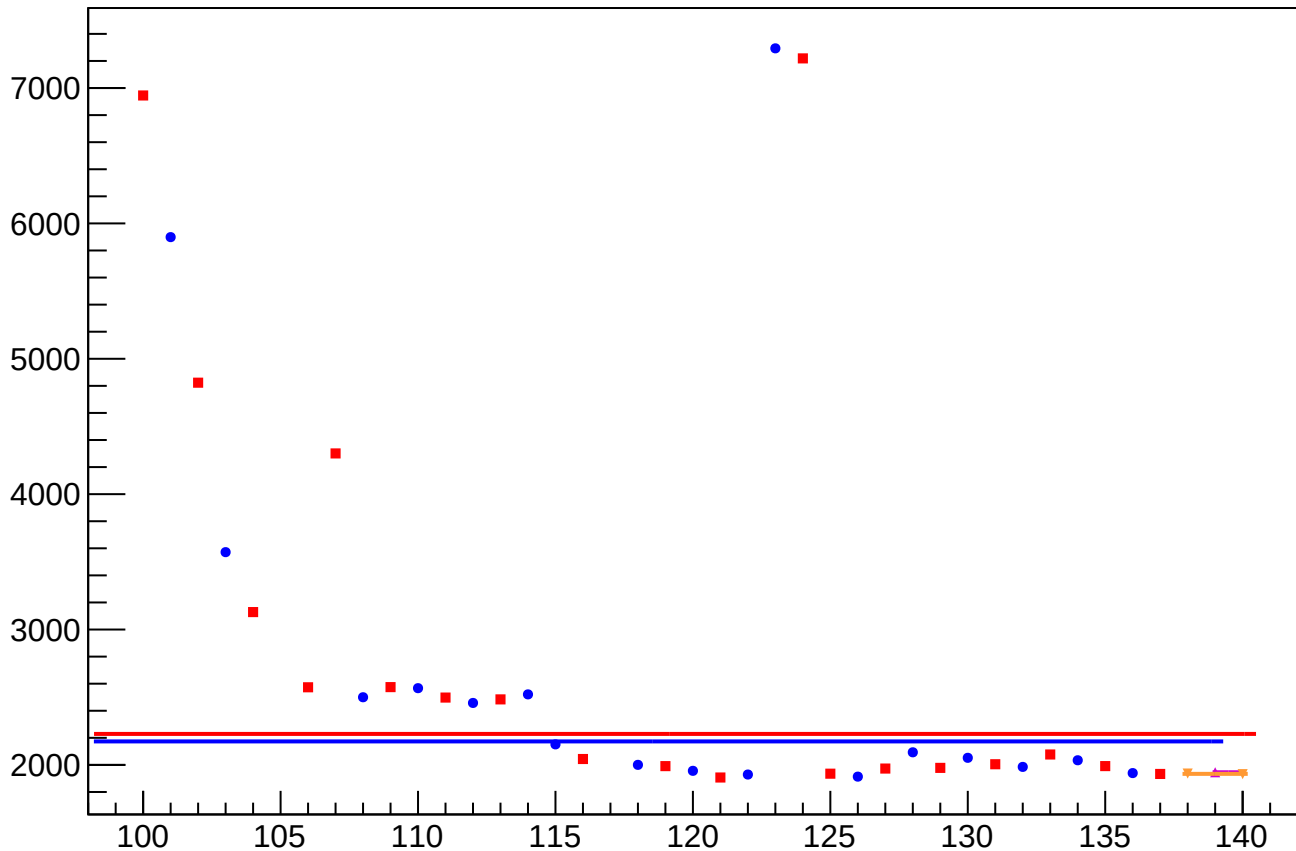
Right: -780.562+/-612.463  $\chi^2/\text{NDF}$ : 35.2/35

In: -789.701+/-804.356  $\chi^2/\text{NDF}$ : 19.1/17

Out: -753.820+/-759.172  $\chi^2/\text{NDF}$ : 22.1/20

All: -770.725+/-552.099  $\chi^2/\text{NDF}$ : 41.3/38

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



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

Left Out: 1933.868 $\pm$ 1.111  $\chi^2$ /NDF: 4.1/1

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

Left In: 1945.709 $\pm$ 1.545  $\chi^2$ /NDF: 0.0/0

Left: 1937.905 $\pm$ 0.902  $\chi^2$ /NDF: 42.8/2

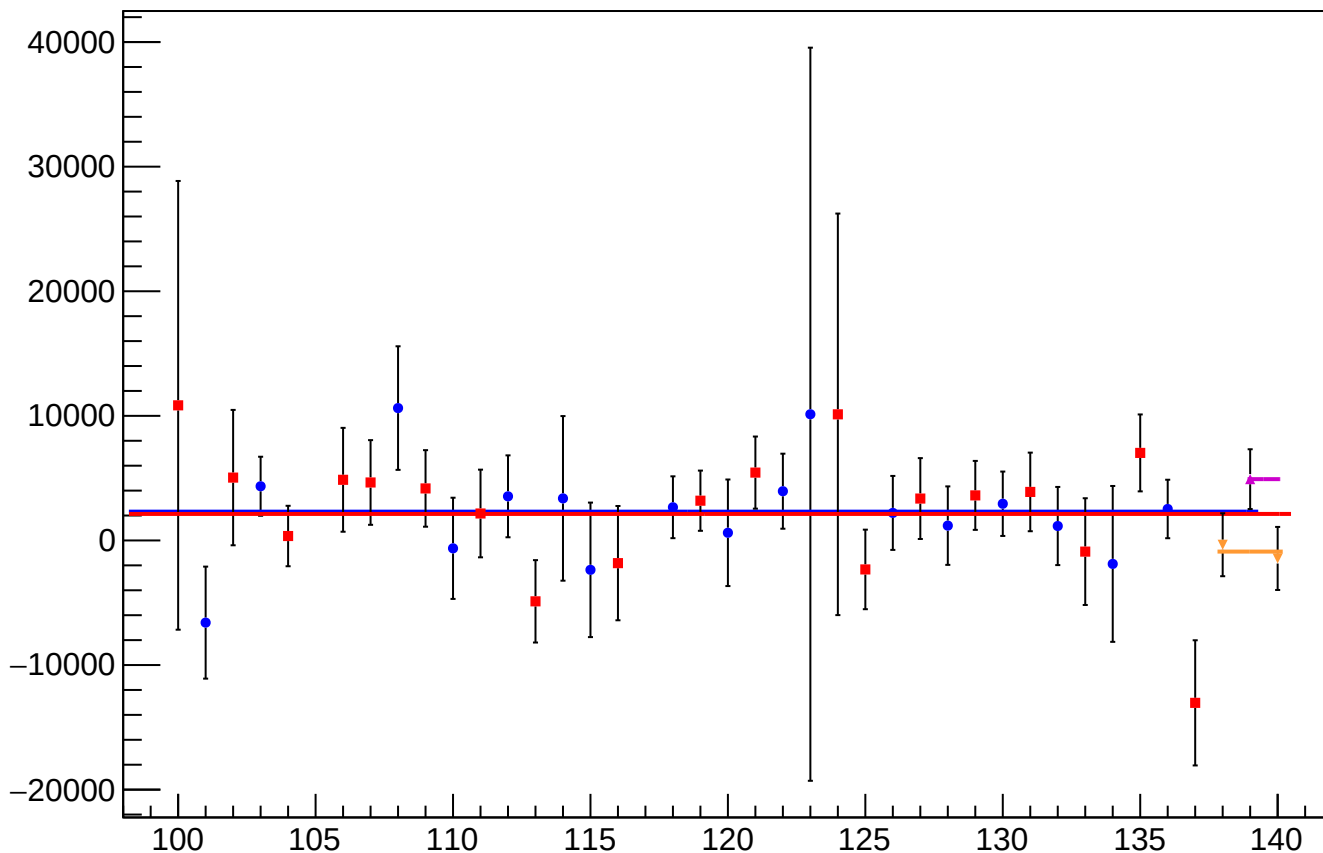
Right: 2201.146 $\pm$ 0.433  $\chi^2$ /NDF: 1705309.7/35

In: 2142.635 $\pm$ 0.569  $\chi^2$ /NDF: 824166.8/17

Out: 2159.989 $\pm$ 0.537  $\chi^2$ /NDF: 949934.5/20

All: 2151.813 $\pm$ 0.390  $\chi^2$ /NDF: 1774593.7/38

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



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

Left Out: -894.156 $\pm$ 1787.469  $\chi^2$ /NDF:0.1/1

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

Left In: 4920.597 $\pm$ 2398.422  $\chi^2$ /NDF:0.0/0

Left: 1182.229 $\pm$ 1433.223  $\chi^2$ /NDF: 3.9/2

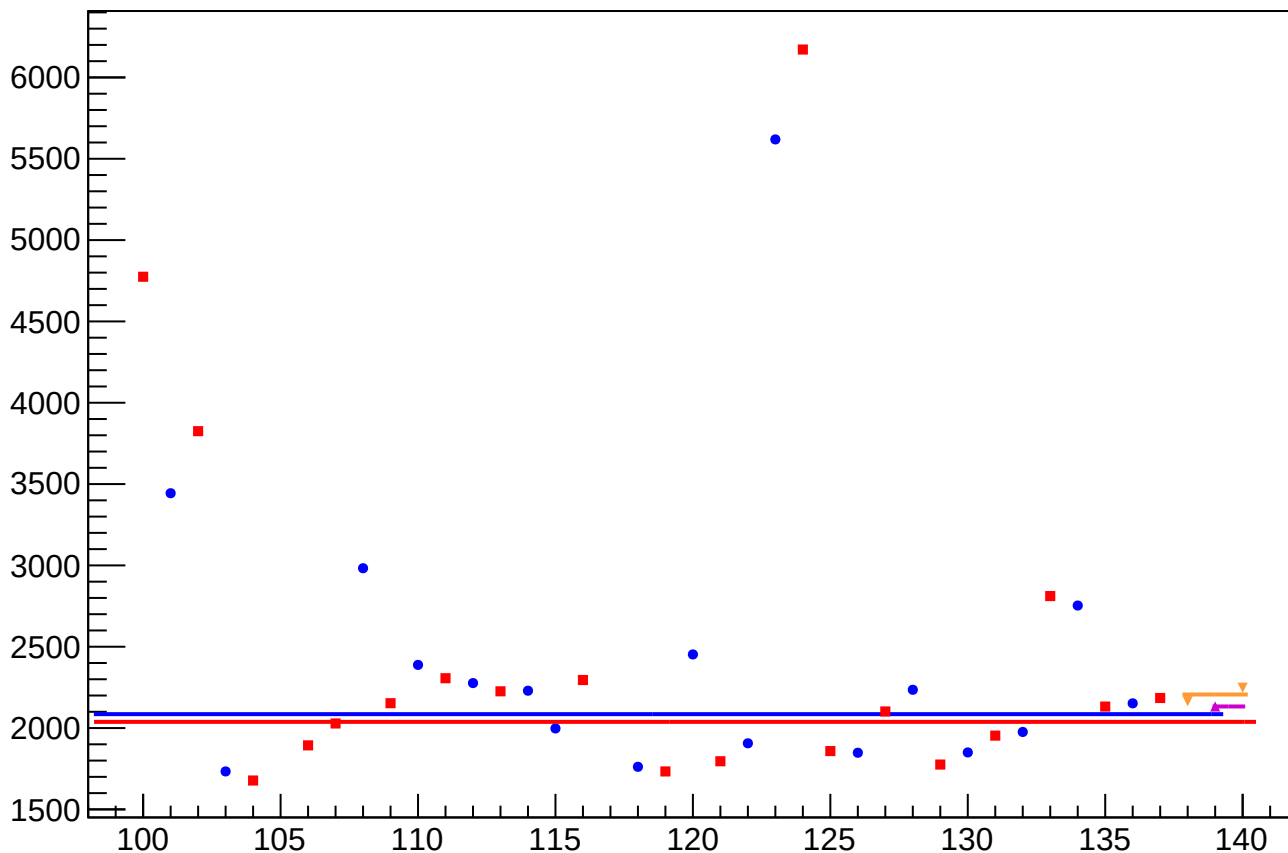
Right: 2216.175 $\pm$ 570.293  $\chi^2$ /NDF: 34.6/35

In: 2585.327 $\pm$ 777.535  $\chi^2$ /NDF:11.3/17

Out: 1632.165 $\pm$ 724.060  $\chi^2$ /NDF:26.8/20

All: 2074.845 $\pm$ 529.885  $\chi^2$ /NDF: 38.9/38

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



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

Left Out:  $2206.392 \pm 1.264$   $\chi^2/\text{NDF}: 1079.7/1$

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

Left In:  $2132.651 \pm 1.696$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $2180.060 \pm 1.013$   $\chi^2/\text{NDF}: 2295.1/2$

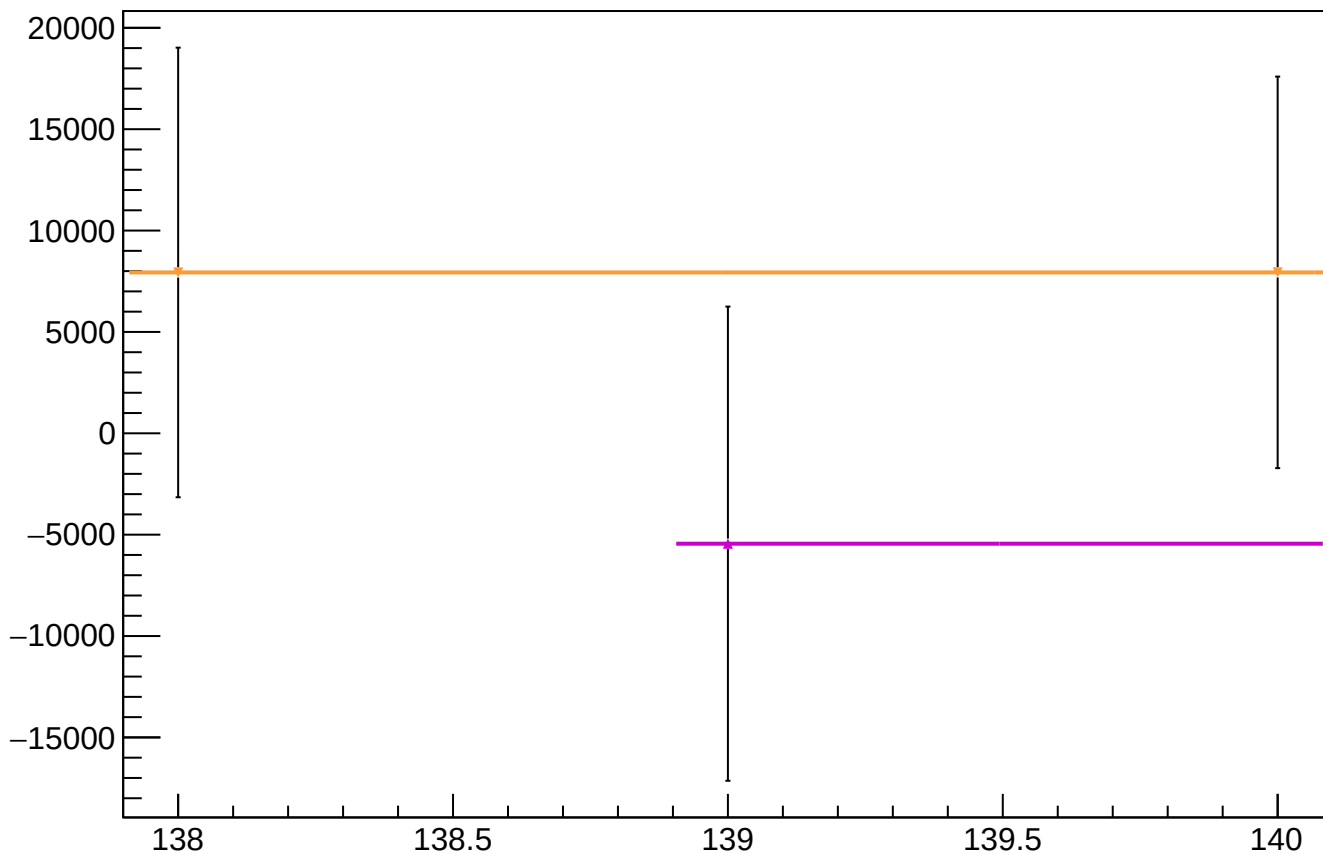
Right:  $2060.877 \pm 0.403$   $\chi^2/\text{NDF}: 1069728.5/35$

In:  $2090.427 \pm 0.550$   $\chi^2/\text{NDF}: 457758.6/17$

Out:  $2065.668 \pm 0.512$   $\chi^2/\text{NDF}: 625118.8/20$

All:  $2077.165 \pm 0.375$   $\chi^2/\text{NDF}: 1083963.8/38$

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



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

Left Out: 7936.176+/-7282.044  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -5444.862+/-11695.054  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4197.700+/-6181.653  $\chi^2/\text{NDF}$ : 0.9/2

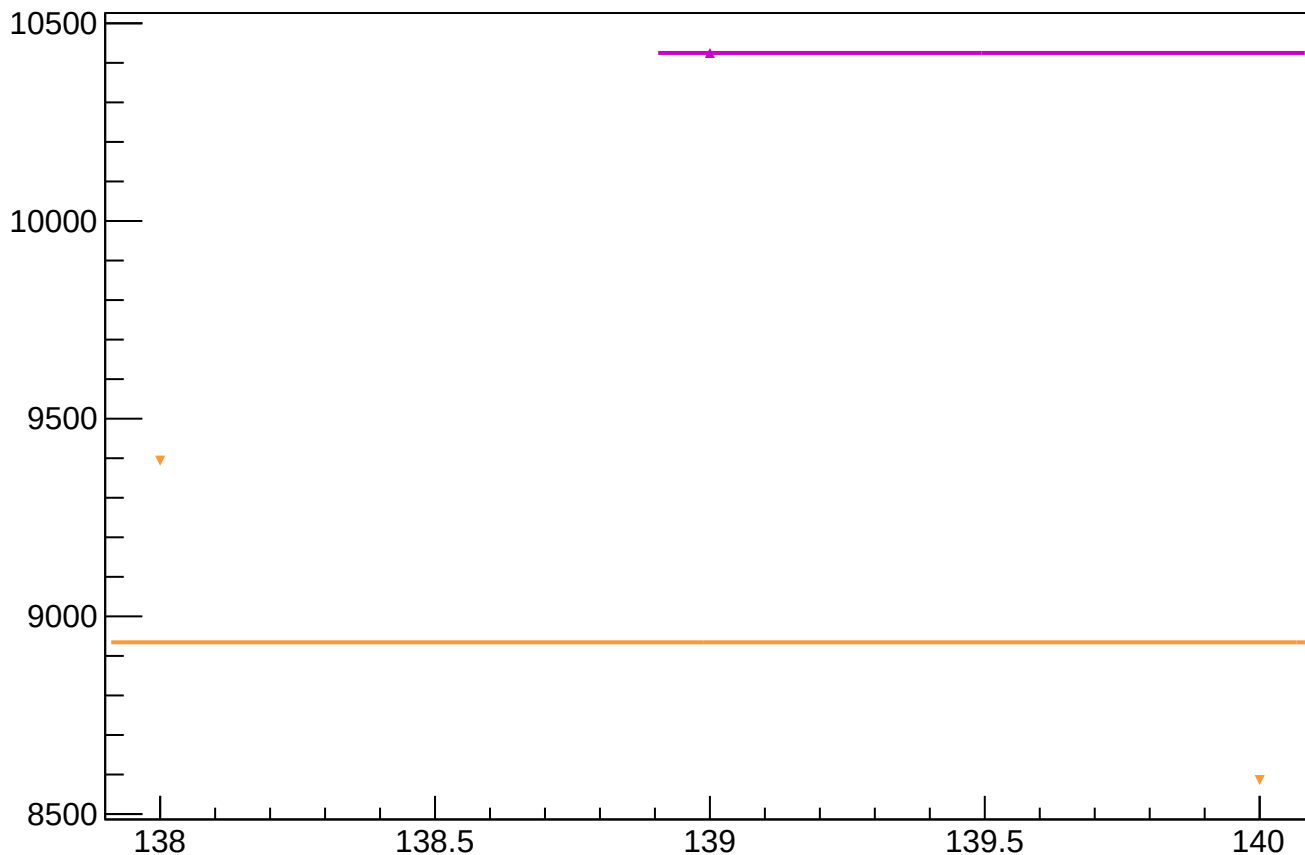
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5444.862+/-11695.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 7936.176+/-7282.044  $\chi^2/\text{NDF}$ : 0.0/1

All: 4197.700+/-6181.653  $\chi^2/\text{NDF}$ : 0.9/2

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



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

Left Out: 8934.344+/-5.149  $\chi^2/\text{NDF}$ : 6037.5/1

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

Left In: 10425.059+/-8.270  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9350.829+/-4.371  $\chi^2/\text{NDF}$ : 29453.7/2

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

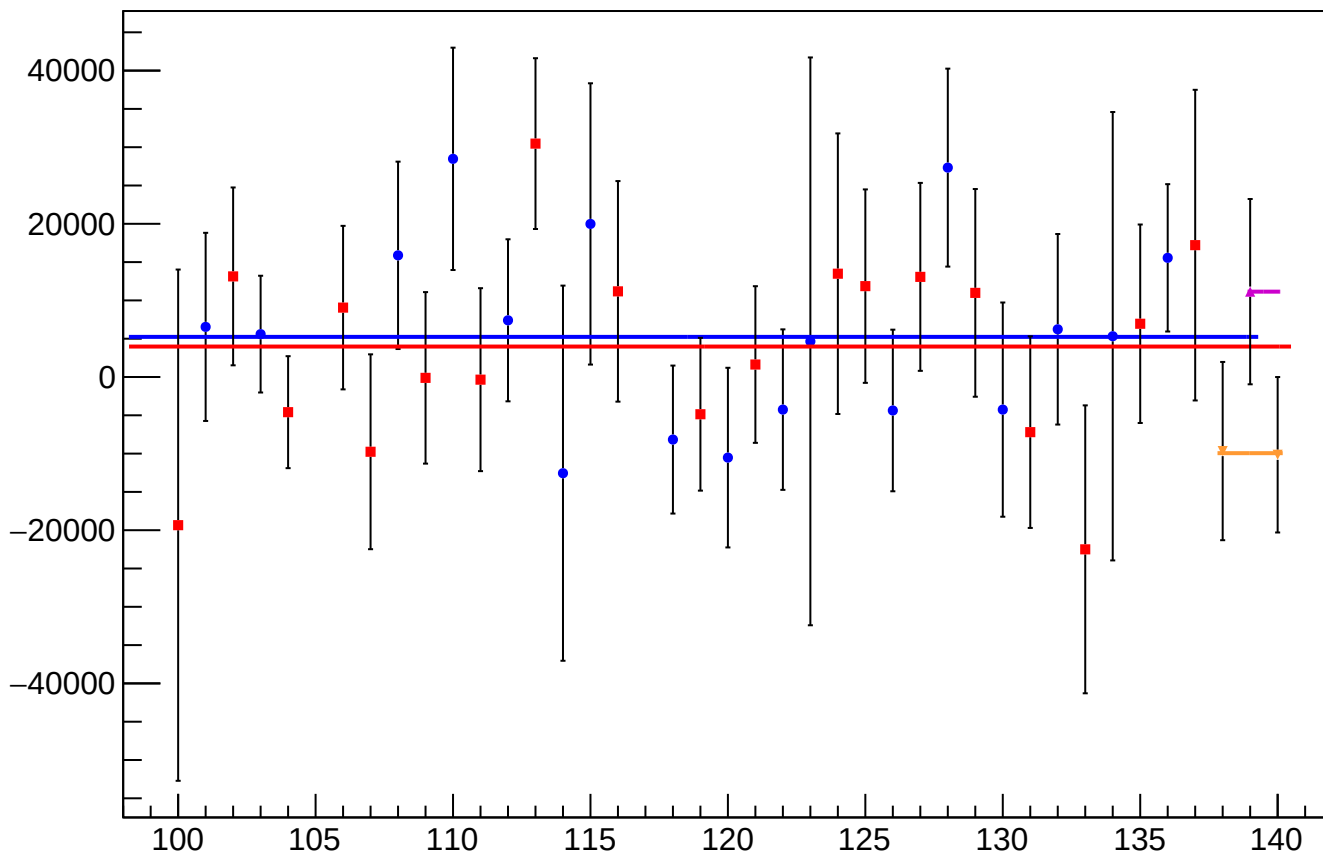
In: 10425.059+/-8.270  $\chi^2/\text{NDF}$ : 0.0/0

Out: 8934.344+/-5.149  $\chi^2/\text{NDF}$ : 6037.5/1

All: 9350.829+/-4.371  $\chi^2/\text{NDF}$ : 29453.7/2



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



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

Left Out: -9942.653+/-7647.280  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 11143.000+/-12095.576  $\chi^2/\text{NDF}$ : 0.0/0

Left: -3921.145+/-6463.767  $\chi^2/\text{NDF}$ : 2.2/2

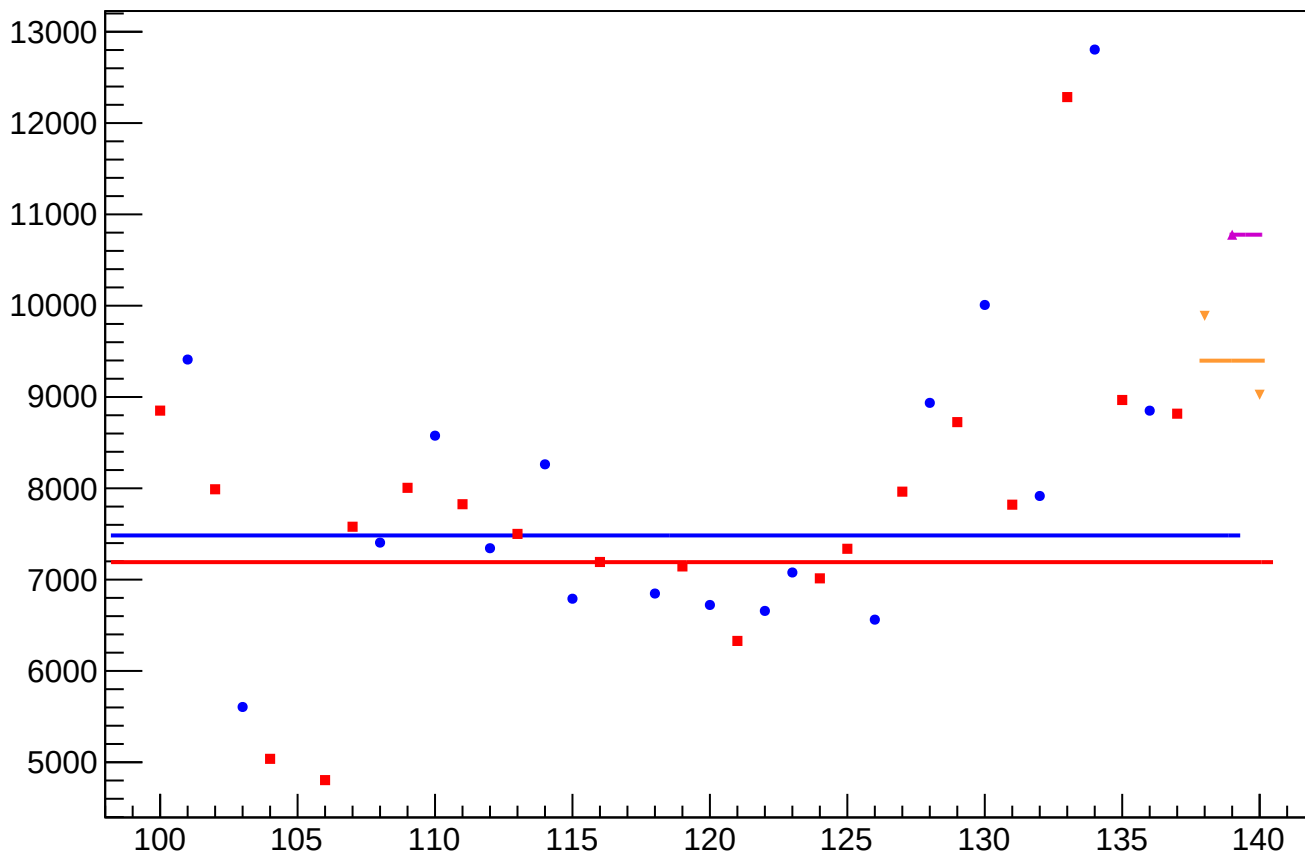
Right: 4573.057+/-2025.948  $\chi^2/\text{NDF}$ : 30.2/35

In: 5569.235+/-2862.475  $\chi^2/\text{NDF}$ : 14.7/17

Out: 2340.604+/-2621.362  $\chi^2/\text{NDF}$ : 18.5/20

All: 3813.237+/-1933.213  $\chi^2/\text{NDF}$ : 33.9/38

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



Right In: 7483.785 $\pm$ 2.083  $\chi^2$ /NDF: 431806.2/16

Left Out: 9398.007 $\pm$ 5.407  $\chi^2$ /NDF: 6261.5/1

Right Out: 7191.451 $\pm$ 1.973  $\chi^2$ /NDF: 558753.1/18

Left In: 10777.508 $\pm$ 8.553  $\chi^2$ /NDF: 0.0/0

Left: 9791.956 $\pm$ 4.571  $\chi^2$ /NDF: 24847.1/2

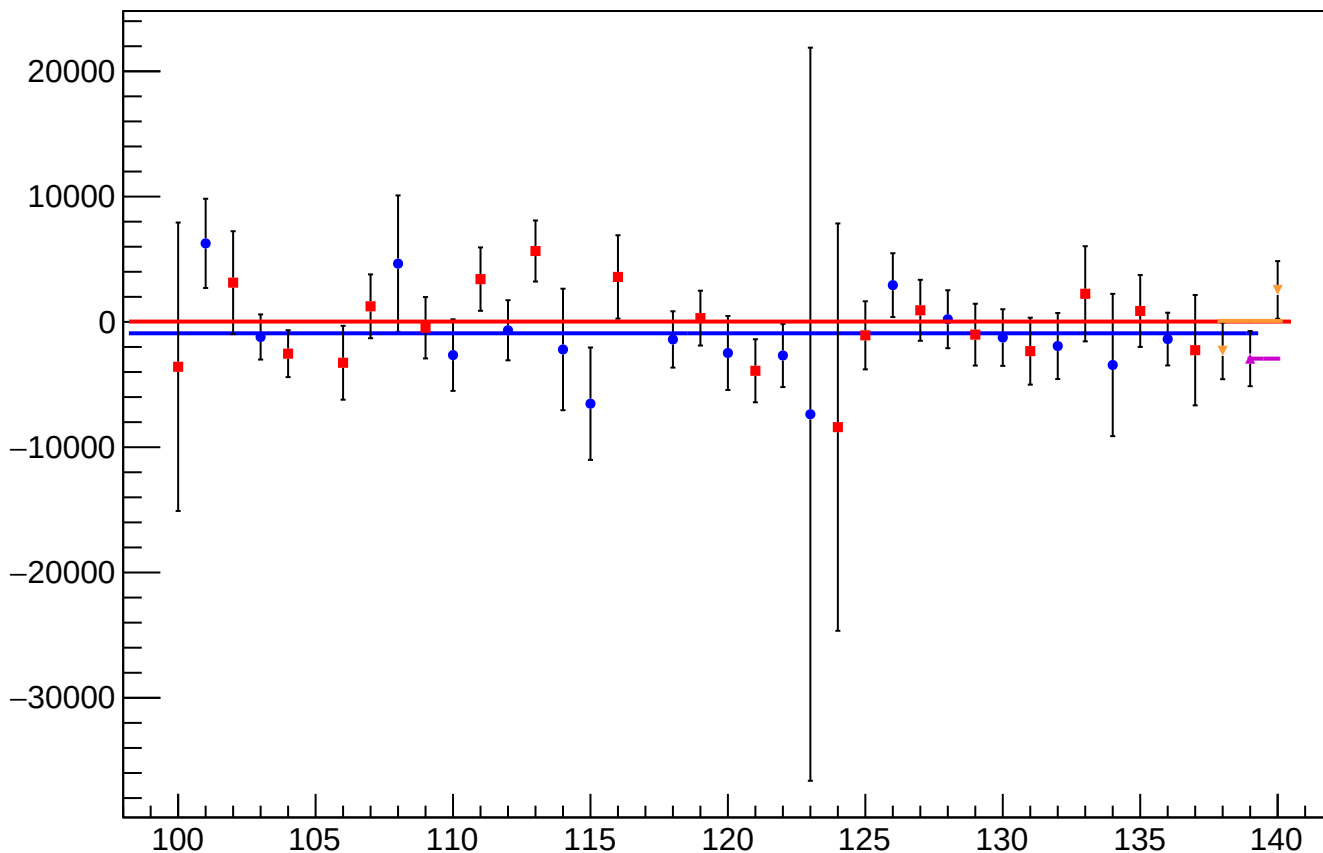
Right: 7329.673 $\pm$ 1.432  $\chi^2$ /NDF: 1000940.7/35

In: 7668.243 $\pm$ 2.024  $\chi^2$ /NDF: 571804.1/17

Out: 7450.664 $\pm$ 1.853  $\chi^2$ /NDF: 711965.8/20

All: 7549.896 $\pm$ 1.367  $\chi^2$ /NDF: 1290055.4/38

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



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

Left Out: 81.639+/-1613.315  $\chi^2/\text{NDF}$ : 2.3/1

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

Left In: -2931.585+/-2199.126  $\chi^2/\text{NDF}$ : 0.0/0

Left: -972.648+/-1300.810  $\chi^2/\text{NDF}$ : 3.5/2

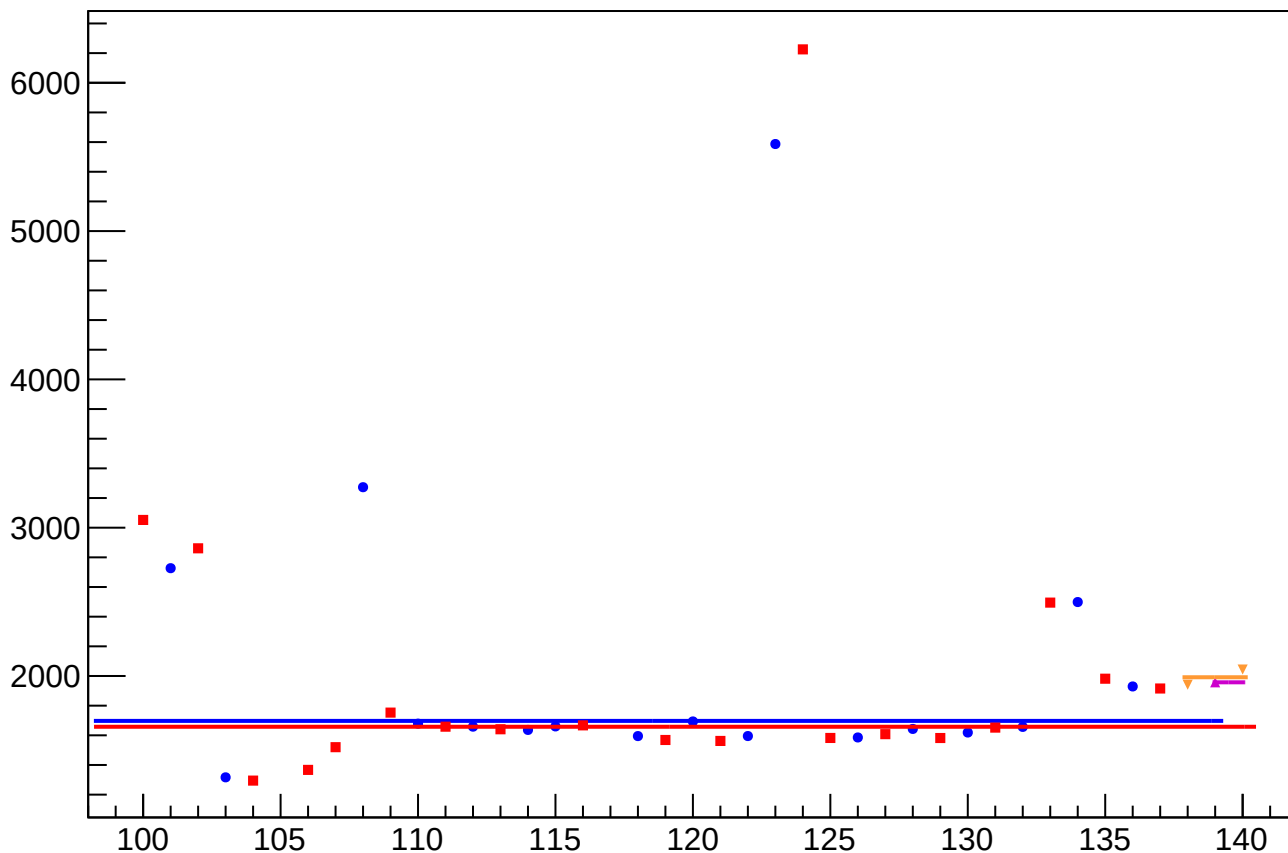
Right: -420.467+/-464.048  $\chi^2/\text{NDF}$ : 29.0/35

In: -1081.530+/-642.105  $\chi^2/\text{NDF}$ : 11.7/17

Out: 34.097+/-596.618  $\chi^2/\text{NDF}$ : 19.3/20

All: -482.805+/-437.069  $\chi^2/\text{NDF}$ : 32.6/38

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



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

Left Out: 1991.499+/-1.141  $\chi^2/\text{NDF}$ : 2009.9/1

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

Left In: 1957.392+/-1.555  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1979.566+/-0.920  $\chi^2/\text{NDF}$ : 2322.7/2

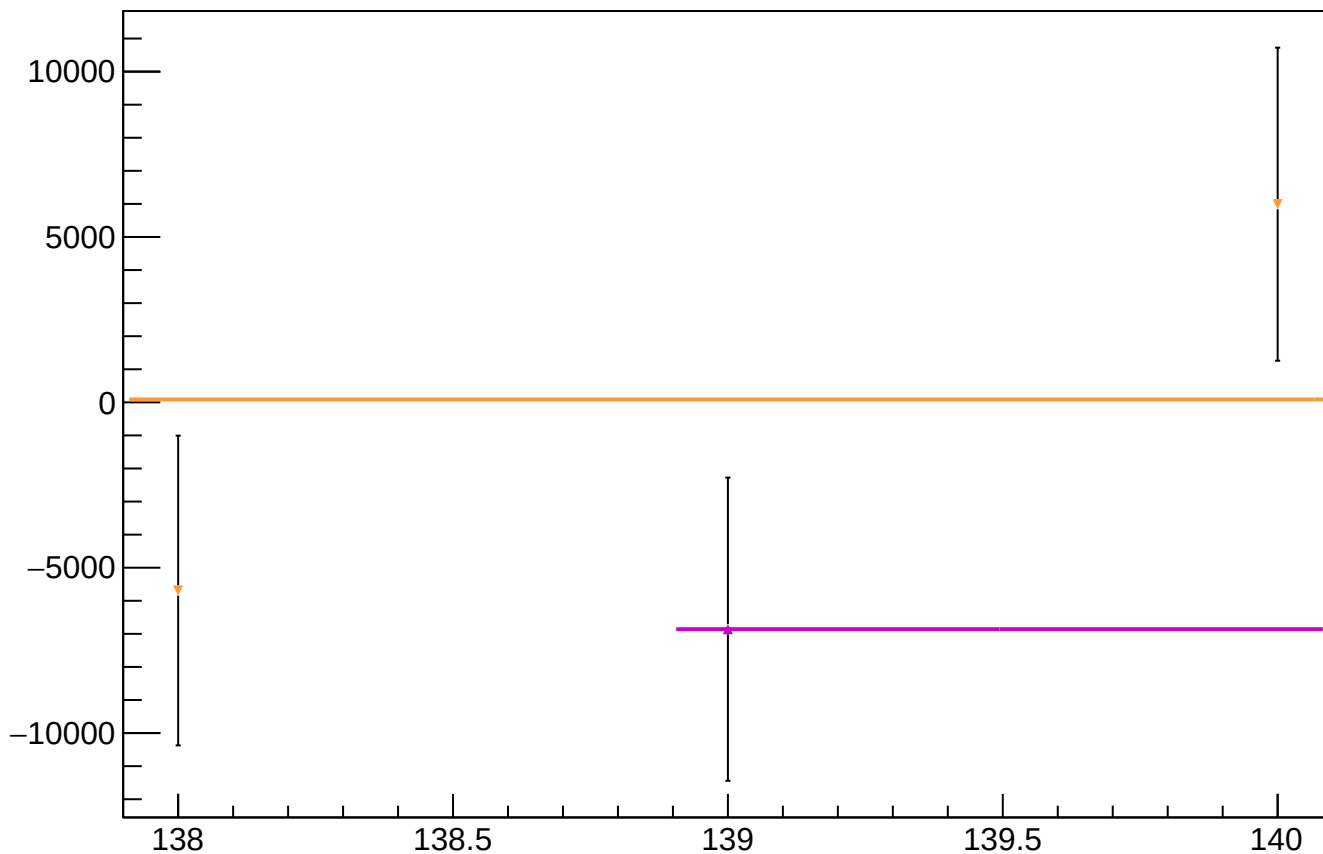
Right: 1676.599+/-0.328  $\chi^2/\text{NDF}$ : 1146353.4/35

In: 1719.418+/-0.454  $\chi^2/\text{NDF}$ : 565328.8/17

Out: 1703.364+/-0.422  $\chi^2/\text{NDF}$ : 678919.0/20

All: 1710.802+/-0.309  $\chi^2/\text{NDF}$ : 1244918.7/38

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



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

Left Out: 88.707+/-3328.666  $\chi^2/\text{NDF}$ :3.1/1

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

Left In: -6858.643+/-4584.161  $\chi^2/\text{NDF}$ :0.0/0

Left: -2309.730+/-2693.484  $\chi^2/\text{NDF}$ : 4.6/2

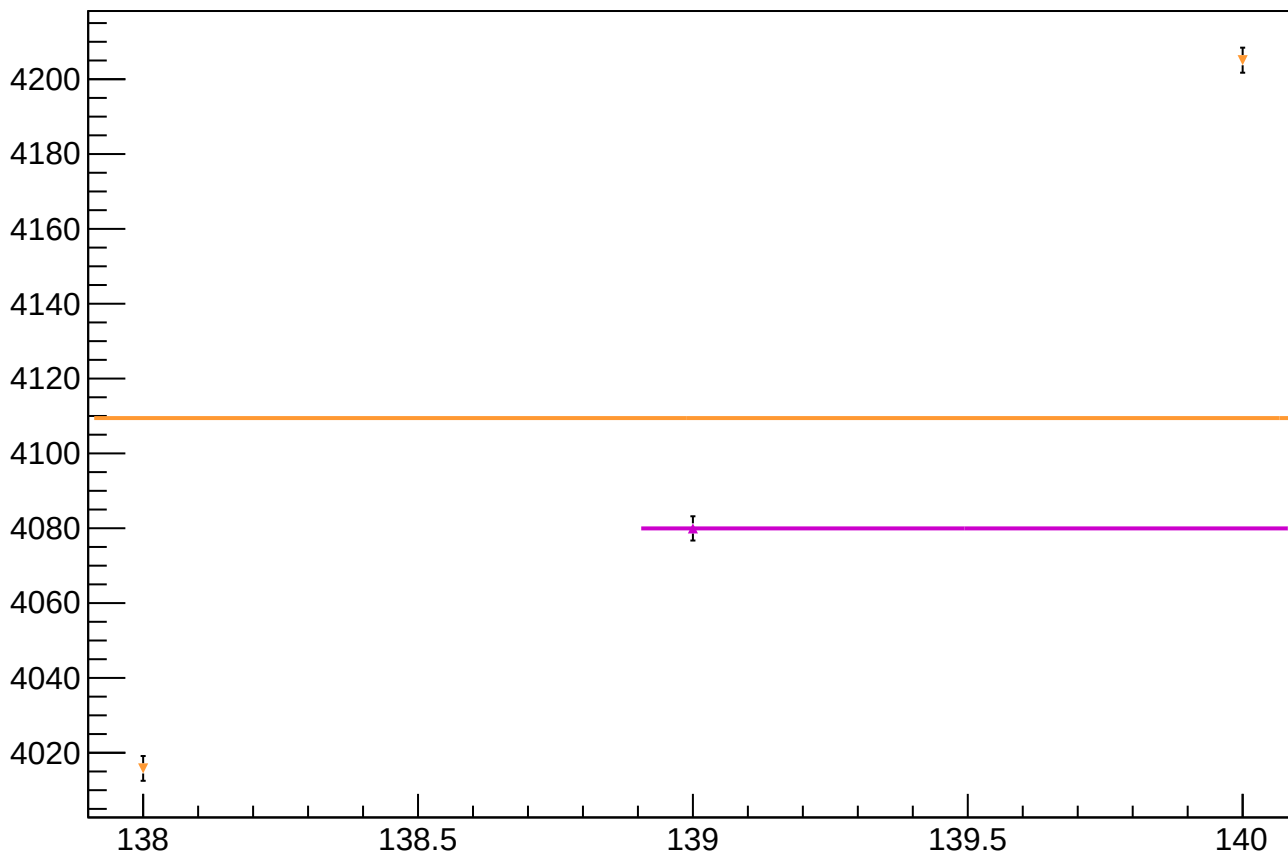
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6858.643+/-4584.161  $\chi^2/\text{NDF}$ :0.0/0

Out: 88.707+/-3328.666  $\chi^2/\text{NDF}$ :3.1/1

All: -2309.730+/-2693.484  $\chi^2/\text{NDF}$ : 4.6/2

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



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

Left Out: 4109.441+/-2.354  $\chi^2/\text{NDF}$ :1616.2/1

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

Left In: 4079.957+/-3.241  $\chi^2/\text{NDF}$ :0.0/0

Left: 4099.262+/-1.905  $\chi^2/\text{NDF}$ : 1670.4/2

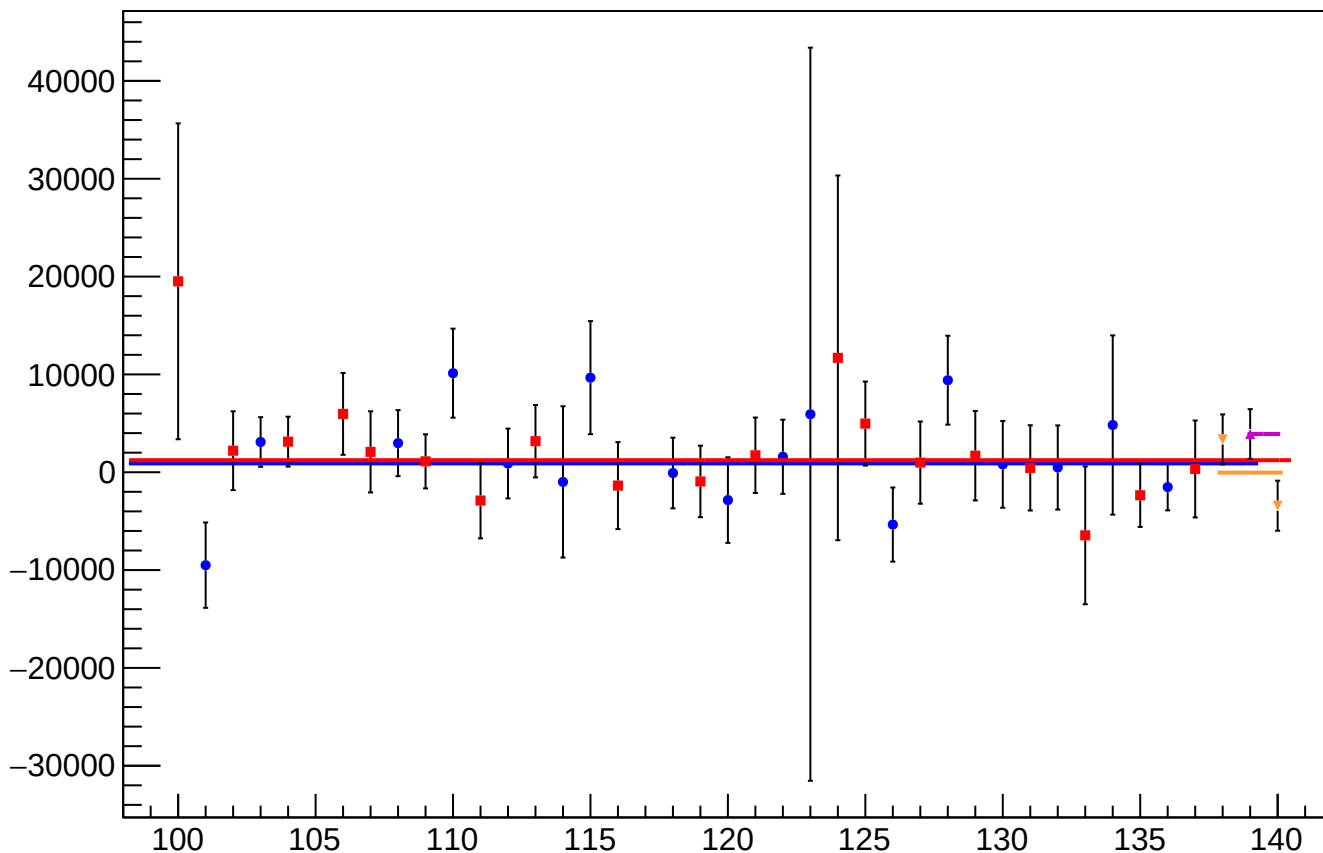
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4079.957+/-3.241  $\chi^2/\text{NDF}$ :0.0/0

Out: 4109.441+/-2.354  $\chi^2/\text{NDF}$ :1616.2/1

All: 4099.262+/-1.905  $\chi^2/\text{NDF}$ : 1670.4/2

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



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

Left Out: -37.697+/-1808.937  $\chi^2/\text{NDF}$ : 3.5/1

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

Left In: 3908.565+/-2542.854  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1288.313+/-1474.015  $\chi^2/\text{NDF}$ : 5.1/2

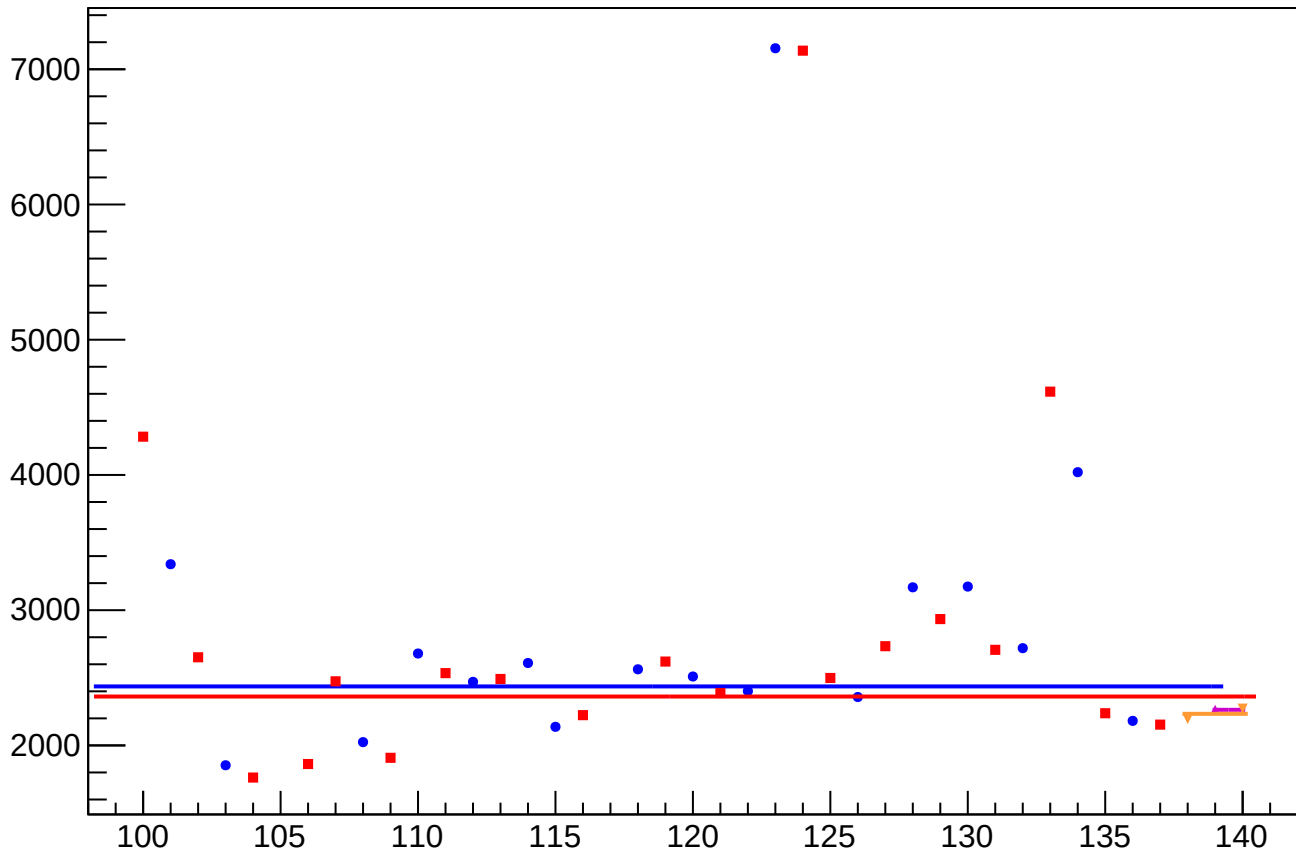
Right: 1073.549+/-666.754  $\chi^2/\text{NDF}$ : 30.6/35

In: 1279.489+/-899.697  $\chi^2/\text{NDF}$ : 22.8/17

Out: 968.023+/-823.593  $\chi^2/\text{NDF}$ : 12.8/20

All: 1110.028+/-607.495  $\chi^2/\text{NDF}$ : 35.7/38

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



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

Left Out: 2233.535+/-1.279  $\chi^2/\text{NDF}$ :914.6/1

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

Left In: 2263.240+/-1.798  $\chi^2/\text{NDF}$ :0.0/0

Left: 2243.517+/-1.042  $\chi^2/\text{NDF}$ : 1095.8/2

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

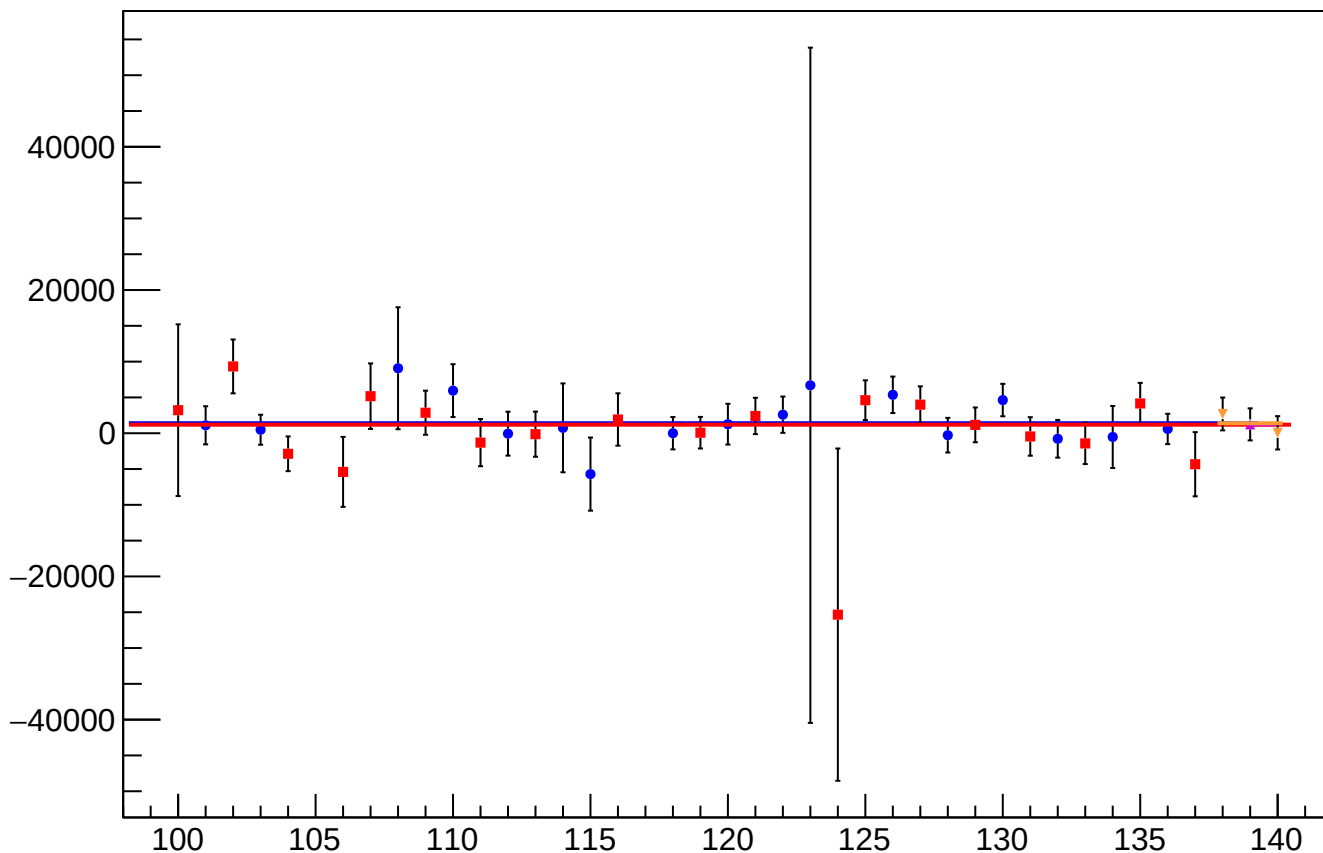
In: 2414.597+/-0.636  $\chi^2/\text{NDF}$ :476652.2/17

Out: 2335.021+/-0.582  $\chi^2/\text{NDF}$ :664701.5/20

All: 2371.302+/-0.430  $\chi^2/\text{NDF}$ : 1149866.5/38



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



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

Left Out: 1394.124+/-1633.214  $\chi^2/\text{NDF}$ : 0.7/1

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

Left In: 1237.304+/-2237.045  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1339.599+/-1319.077  $\chi^2/\text{NDF}$ : 0.7/2

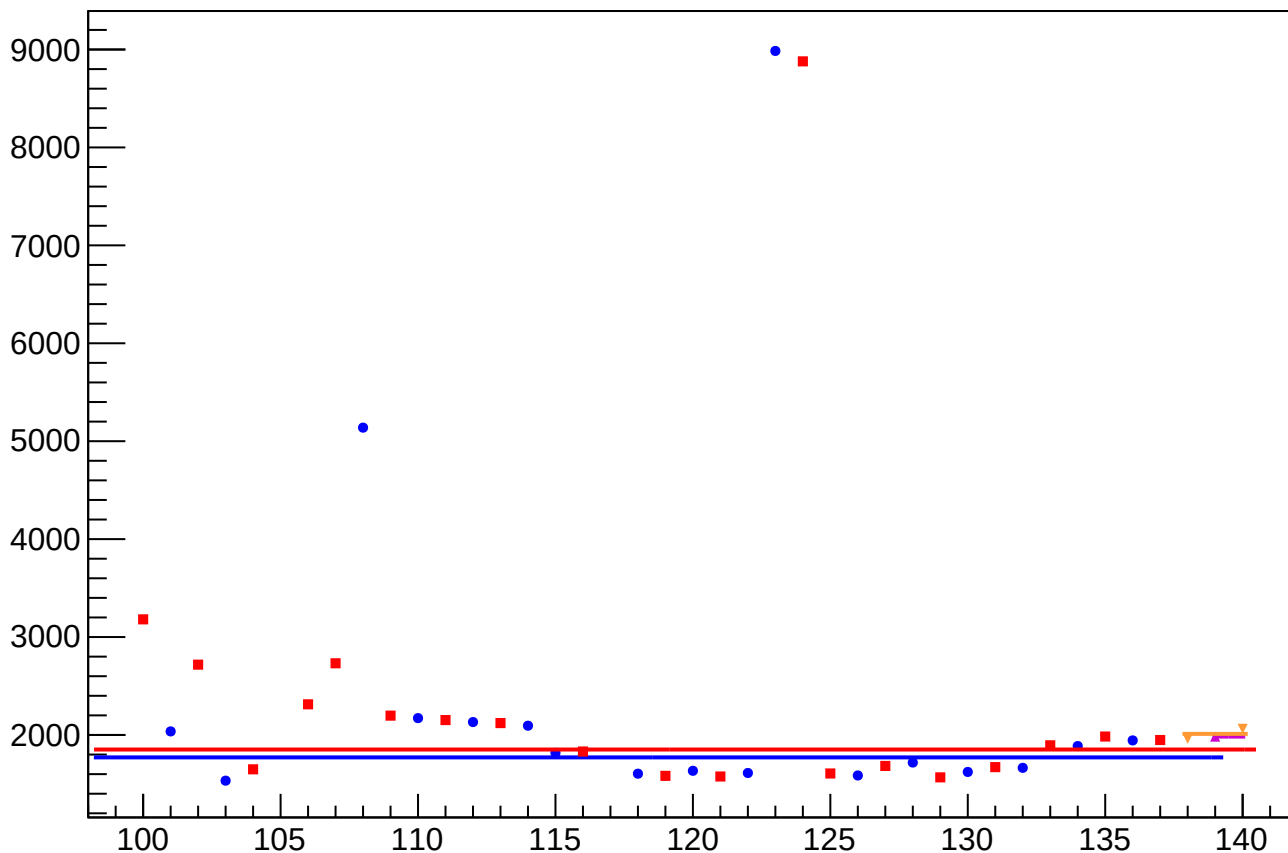
Right: 1298.390+/-500.185  $\chi^2/\text{NDF}$ : 30.8/35

In: 1385.935+/-667.820  $\chi^2/\text{NDF}$ : 11.3/17

Out: 1224.293+/-655.188  $\chi^2/\text{NDF}$ : 20.1/20

All: 1303.571+/-467.690  $\chi^2/\text{NDF}$ : 31.4/38

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



Right In: 1770.964+/-0.495  $\chi^2/\text{NDF}$ : 523586.3/16

Left Out: 2011.036+/-1.155  $\chi^2/\text{NDF}$ :1951.8/1

Right Out: 1851.378+/-0.505  $\chi^2/\text{NDF}$ : 597933.6/18

Left In: 1983.320+/-1.582  $\chi^2/\text{NDF}$ :0.0/0

Left: 2001.399+/-0.933  $\chi^2/\text{NDF}$ : 2152.1/2

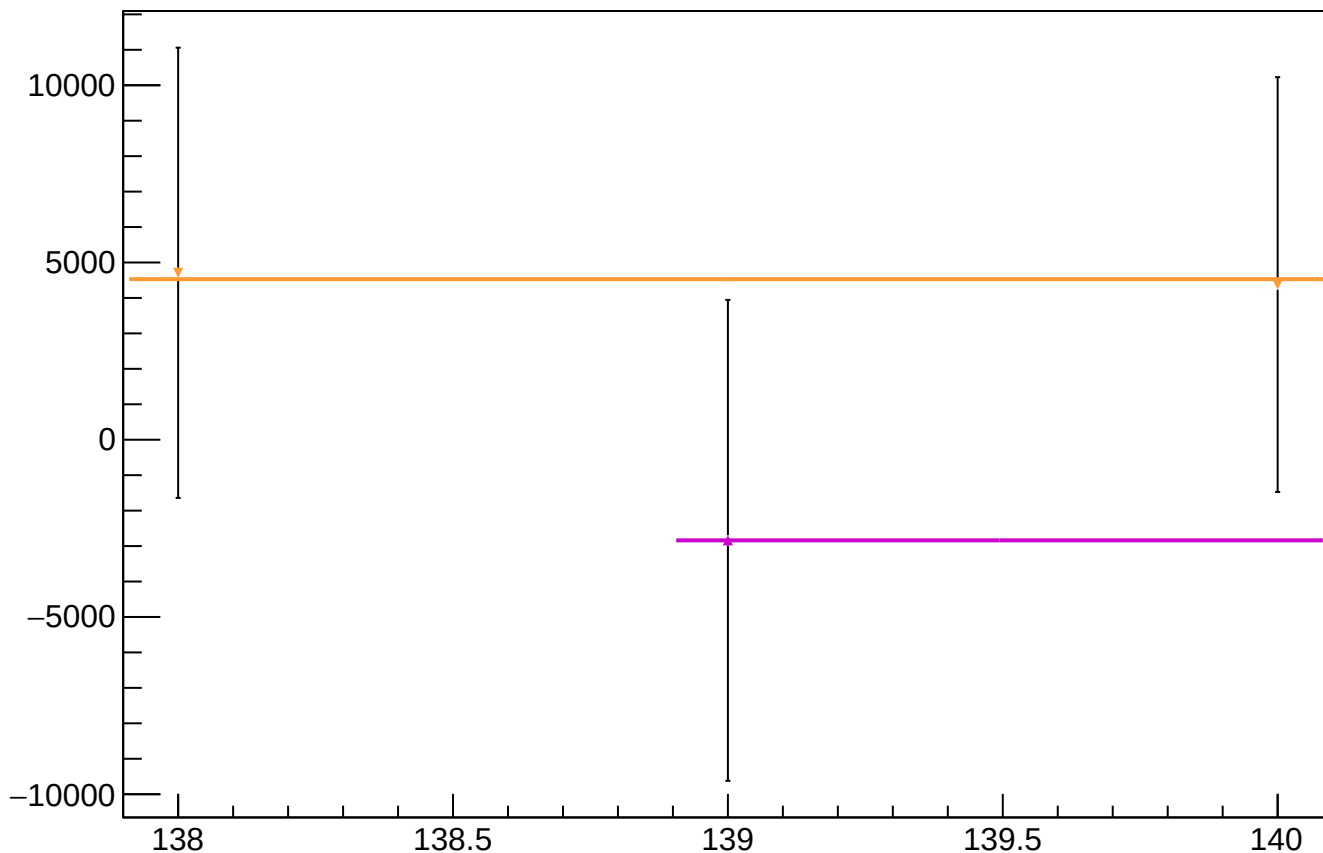
Right: 1810.335+/-0.353  $\chi^2/\text{NDF}$ : 1134452.8/35

In: 1789.888+/-0.472  $\chi^2/\text{NDF}$ :540002.5/17

Out: 1877.021+/-0.463  $\chi^2/\text{NDF}$ :615928.5/20

All: 1834.330+/-0.331  $\chi^2/\text{NDF}$ : 1173296.4/38

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



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

Left Out: 4529.826+/-4303.166  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -2838.909+/-6782.668  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2415.059+/-3633.585  $\chi^2/\text{NDF}$ : 0.8/2

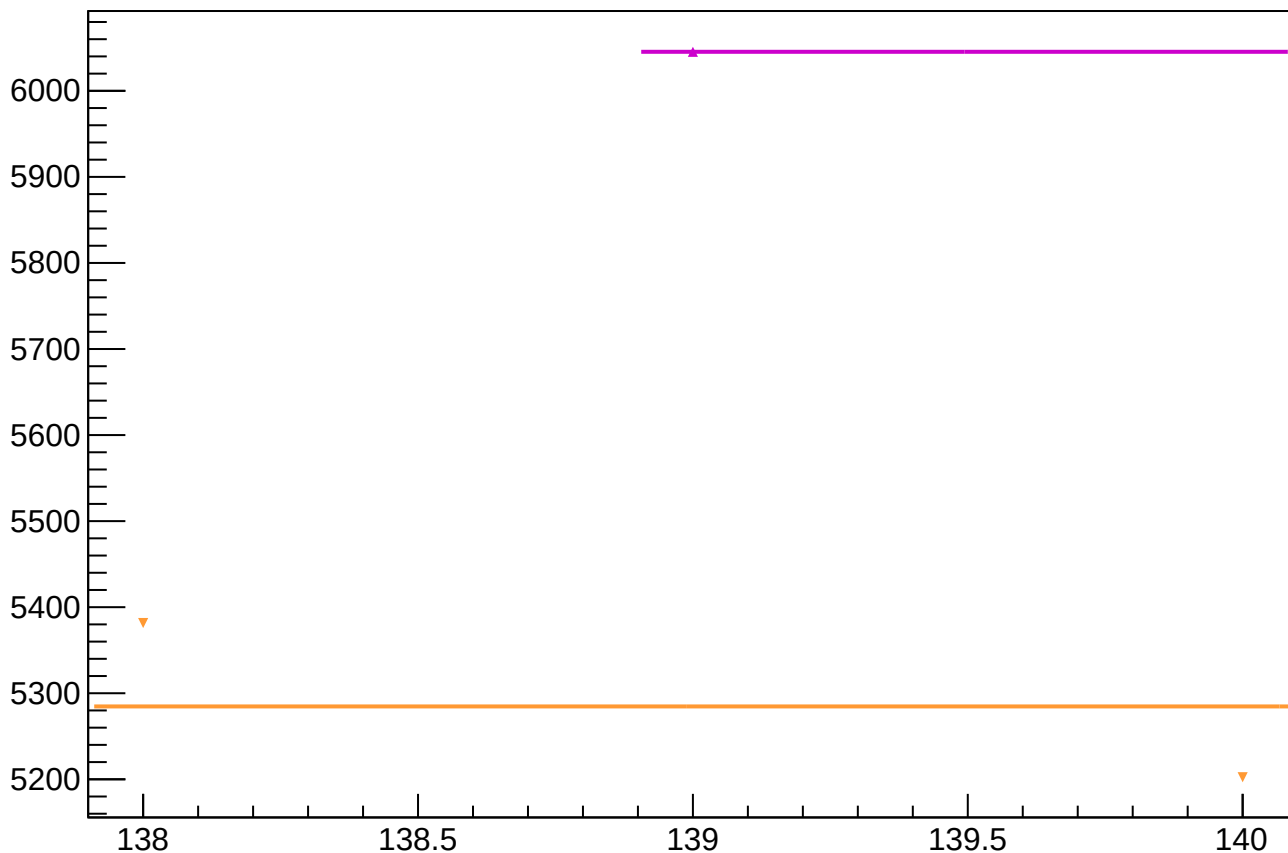
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2838.909+/-6782.668  $\chi^2/\text{NDF}$ : 0.0/0

Out: 4529.826+/-4303.166  $\chi^2/\text{NDF}$ : 0.0/1

All: 2415.059+/-3633.585  $\chi^2/\text{NDF}$ : 0.8/2

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



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

Left Out: 5284.668+/-3.043  $\chi^2/\text{NDF}$ :861.3/1

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

Left In: 6045.361+/-4.796  $\chi^2/\text{NDF}$ :0.0/0

Left: 5502.981+/-2.569  $\chi^2/\text{NDF}$ : 18798.0/2

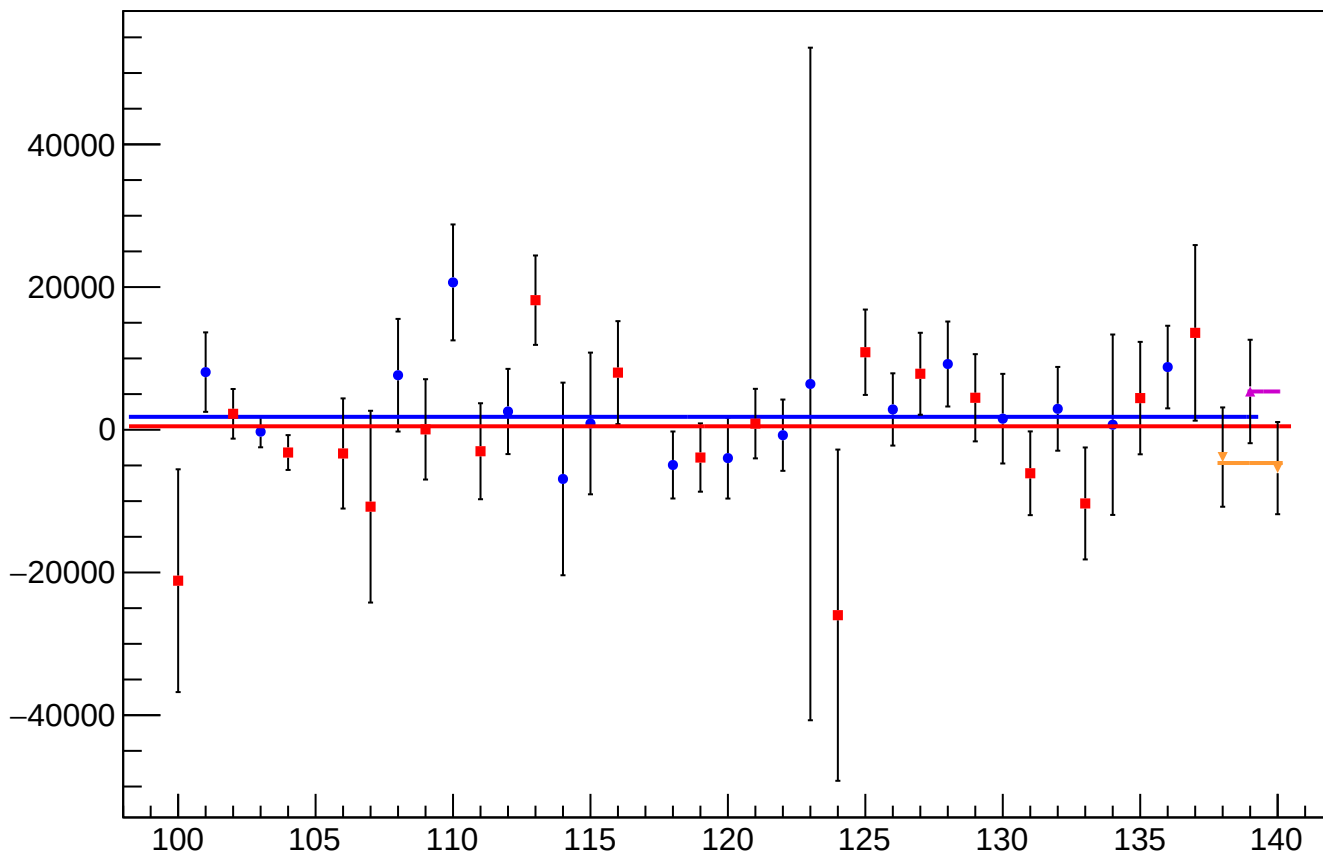
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6045.361+/-4.796  $\chi^2/\text{NDF}$ :0.0/0

Out: 5284.668+/-3.043  $\chi^2/\text{NDF}$ :861.3/1

All: 5502.981+/-2.569  $\chi^2/\text{NDF}$ : 18798.0/2

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



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

Left Out: -4657.140+/-4734.858  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 5367.045+/-7248.795  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1659.283+/-3964.119  $\chi^2/\text{NDF}$ : 1.4/2

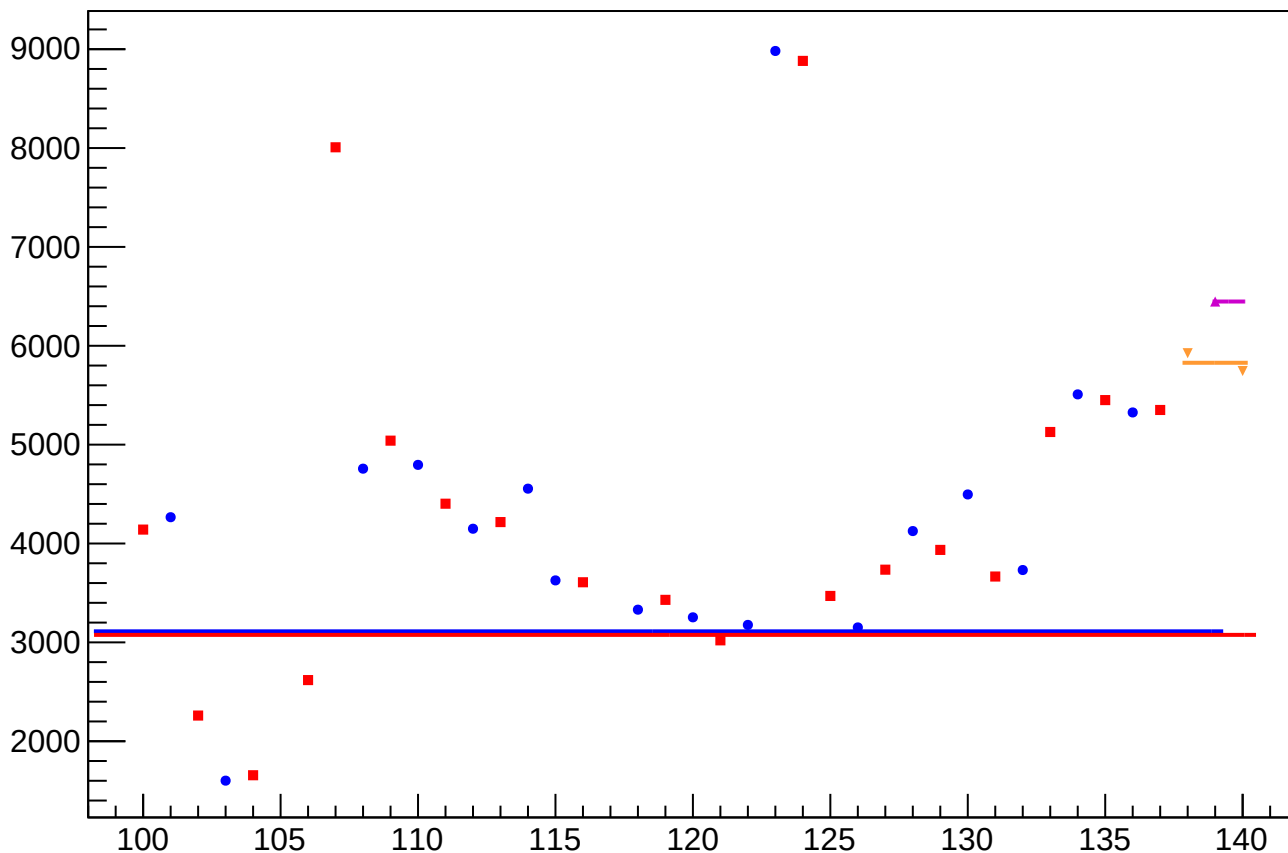
Right: 1143.505+/-914.731  $\chi^2/\text{NDF}$ : 42.0/35

In: 1925.191+/-1280.836  $\chi^2/\text{NDF}$ : 15.2/17

Out: 134.826+/-1241.106  $\chi^2/\text{NDF}$ : 27.6/20

All: 1001.810+/-891.309  $\chi^2/\text{NDF}$ : 43.8/38

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



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

Left Out: 5828.017+/-3.348  $\chi^2/\text{NDF}$ : 719.2/1

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

Left In: 6447.626+/-5.126  $\chi^2/\text{NDF}$ : 0.0/0

Left: 6013.319+/-2.803  $\chi^2/\text{NDF}$ : 10961.8/2

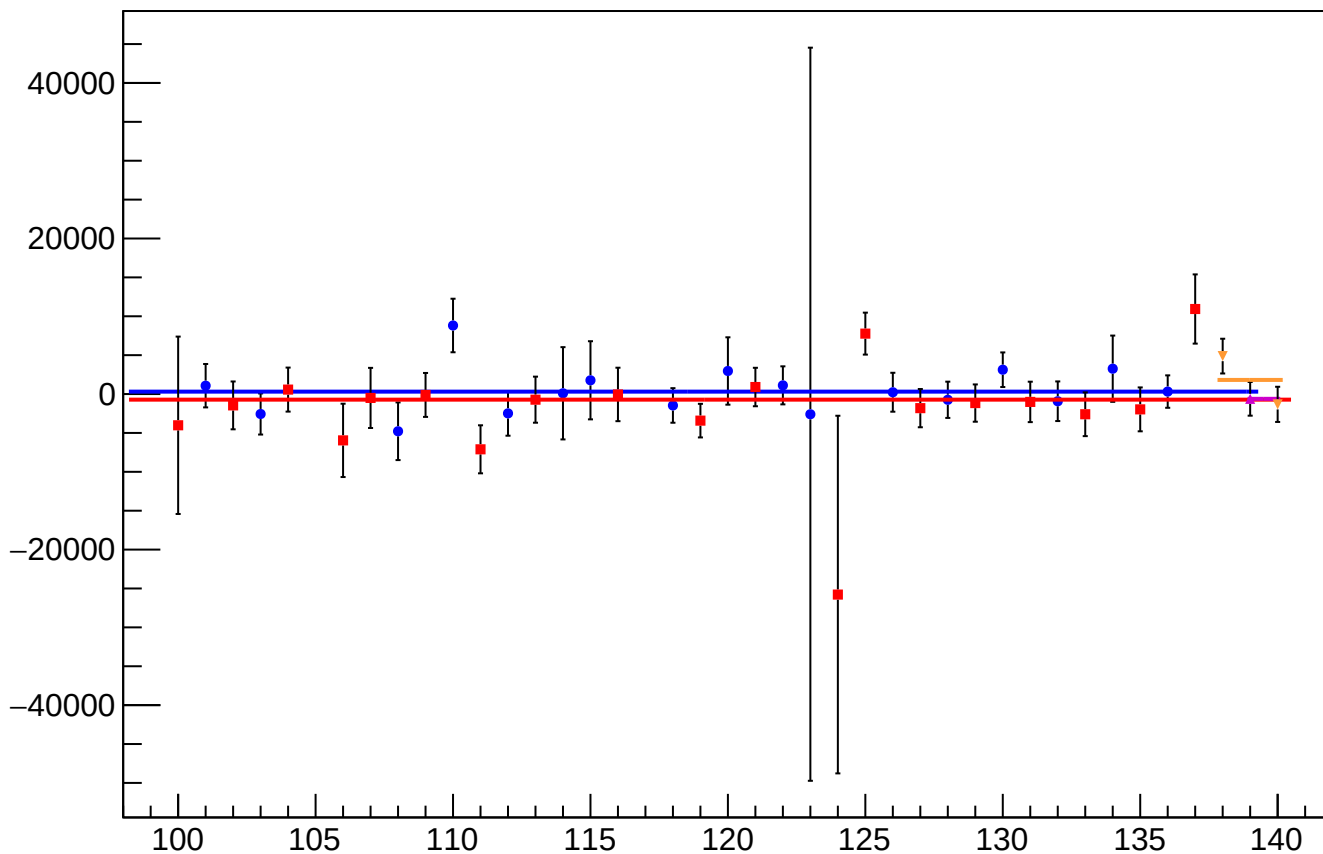
Right: 3093.209+/-0.642  $\chi^2/\text{NDF}$ : 3889323.9/35

In: 3215.716+/-0.906  $\chi^2/\text{NDF}$ : 2289377.2/17

Out: 3259.827+/-0.866  $\chi^2/\text{NDF}$ : 2640836.0/20

All: 3238.766+/-0.626  $\chi^2/\text{NDF}$ : 4931452.6/38

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



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

Left Out: 1815.429+/-1589.221  $\chi^2/\text{NDF}$ : 3.8/1

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

Left In: -614.716+/-2165.824  $\chi^2/\text{NDF}$ : 0.0/0

Left: 964.919+/-1281.288  $\chi^2/\text{NDF}$ : 4.6/2

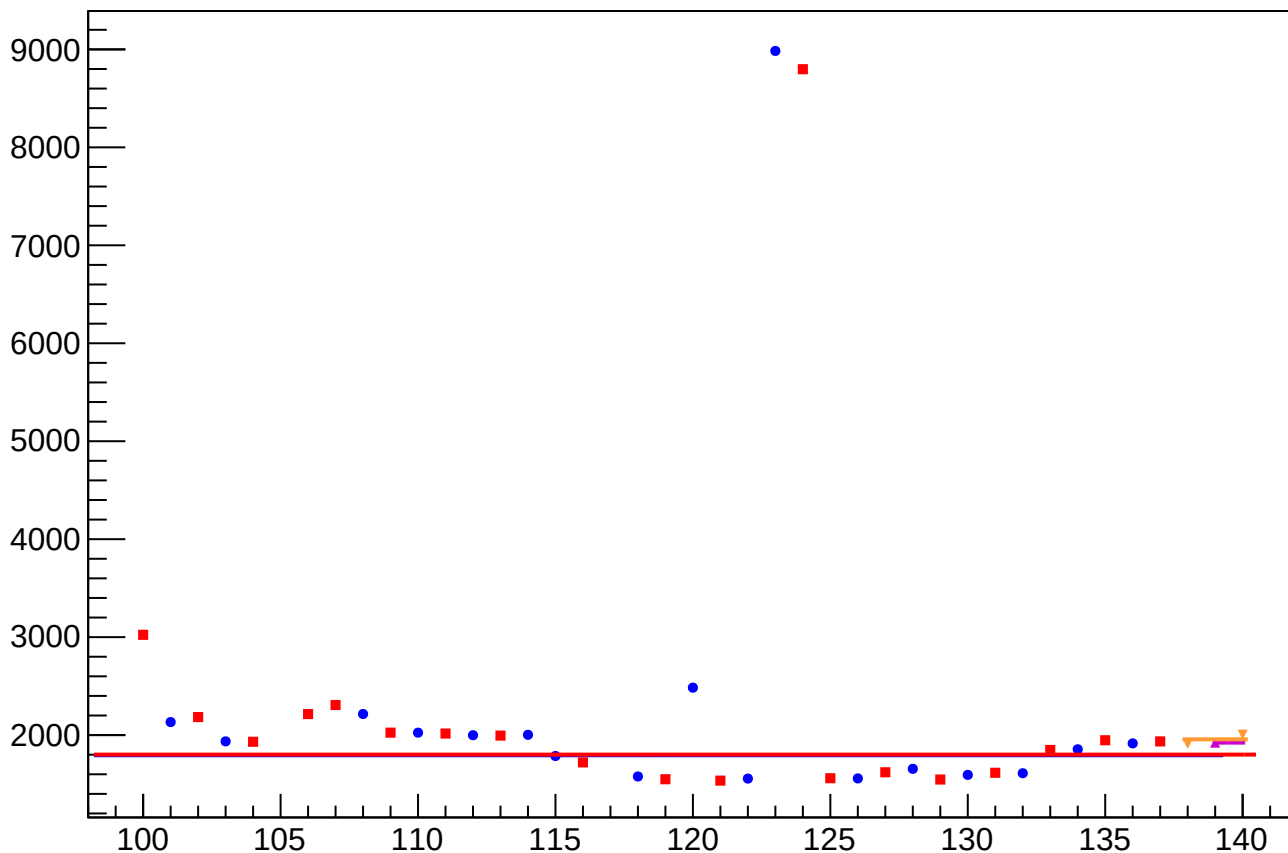
Right: -212.074+/-493.103  $\chi^2/\text{NDF}$ : 41.8/35

In: 222.781+/-668.220  $\chi^2/\text{NDF}$ : 14.1/17

Out: -315.587+/-634.714  $\chi^2/\text{NDF}$ : 32.7/20

All: -60.239+/-460.200  $\chi^2/\text{NDF}$ : 47.2/38

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



Right In: 1794.083 $\pm$ 0.497  $\chi^2$ /NDF: 276685.7/16

Left Out: 1956.794 $\pm$ 1.124  $\chi^2$ /NDF:1748.7/1

Right Out: 1800.745 $\pm$ 0.489  $\chi^2$ /NDF: 444850.1/18

Left In: 1923.142 $\pm$ 1.531  $\chi^2$ /NDF:0.0/0

Left: 1945.016 $\pm$ 0.906  $\chi^2$ /NDF: 2062.5/2

Right: 1797.467 $\pm$ 0.348  $\chi^2$ /NDF: 721627.3/35

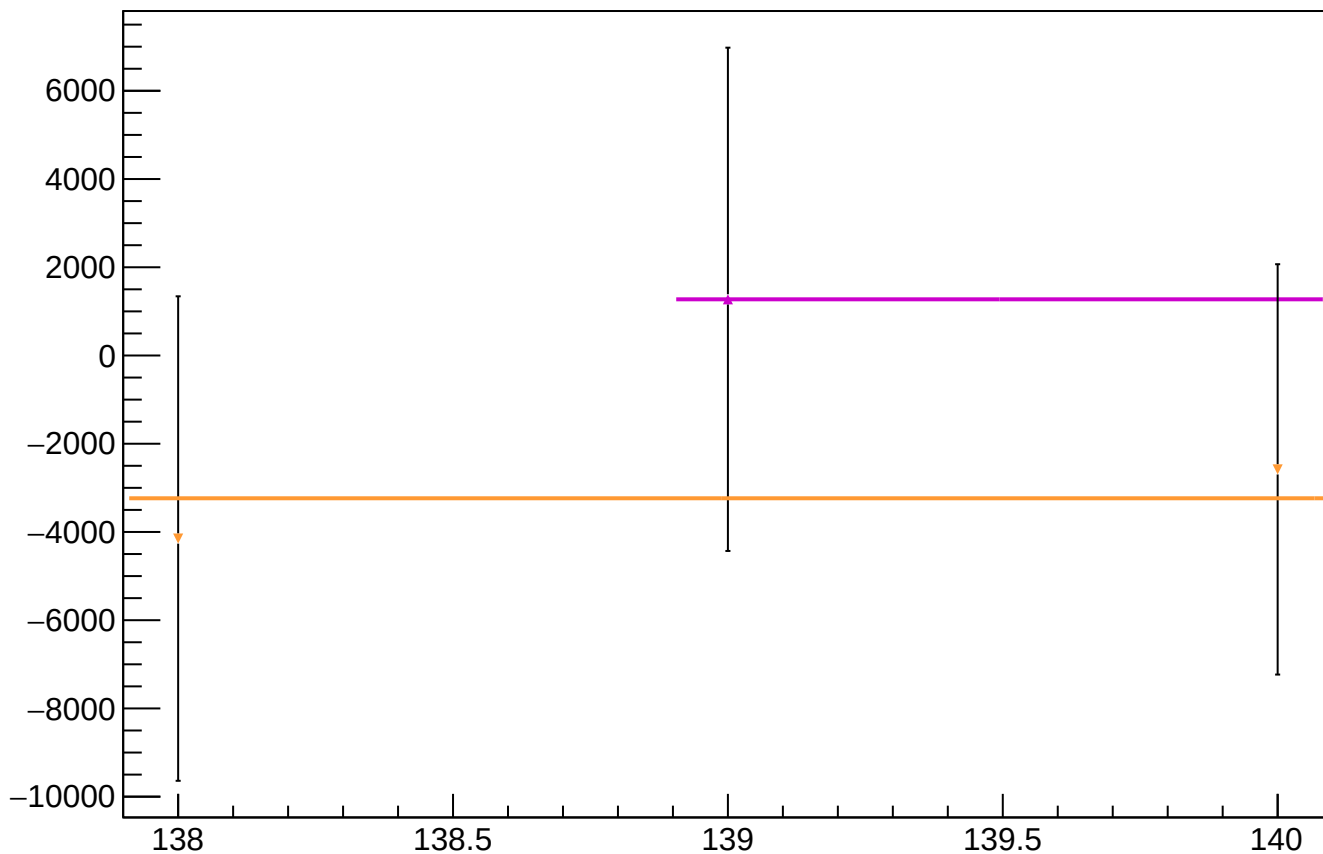
In: 1806.368 $\pm$ 0.473  $\chi^2$ /NDF:283111.4/17

Out: 1825.572 $\pm$ 0.448  $\chi^2$ /NDF:462814.2/20

All: 1816.476 $\pm$ 0.325  $\chi^2$ /NDF: 746795.1/38



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



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

Left Out: -3236.442+/-3548.876  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 1273.511+/-5704.080  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1977.870+/-3013.274  $\chi^2/\text{NDF}$ : 0.5/2

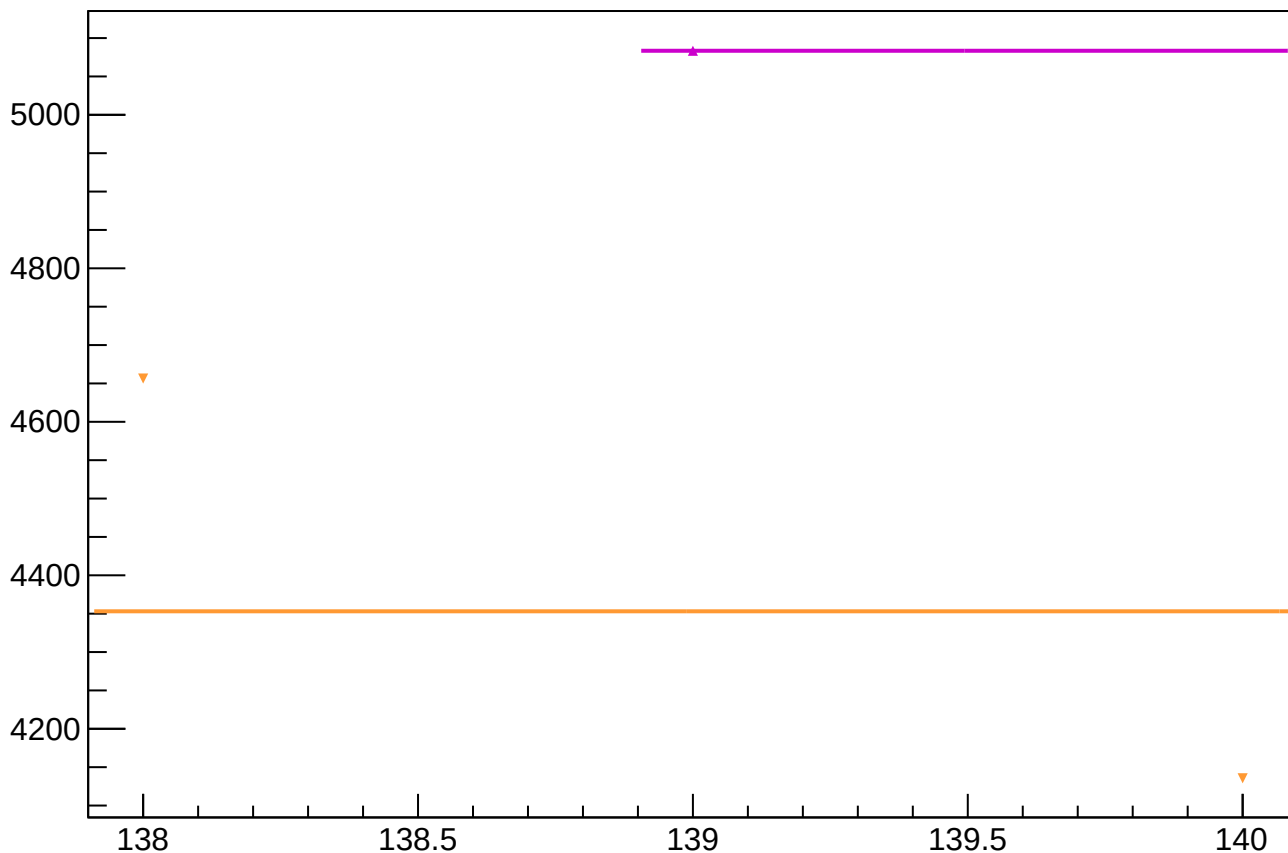
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1273.511+/-5704.080  $\chi^2/\text{NDF}$ : 0.0/0

Out: -3236.442+/-3548.876  $\chi^2/\text{NDF}$ : 0.0/1

All: -1977.870+/-3013.274  $\chi^2/\text{NDF}$ : 0.5/2

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



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

Left Out: 4353.095+/-2.509  $\chi^2/\text{NDF}$ :10478.1/1

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

Left In: 5083.463+/-4.033  $\chi^2/\text{NDF}$ :0.0/0

Left: 4556.915+/-2.131  $\chi^2/\text{NDF}$ : 34117.6/2

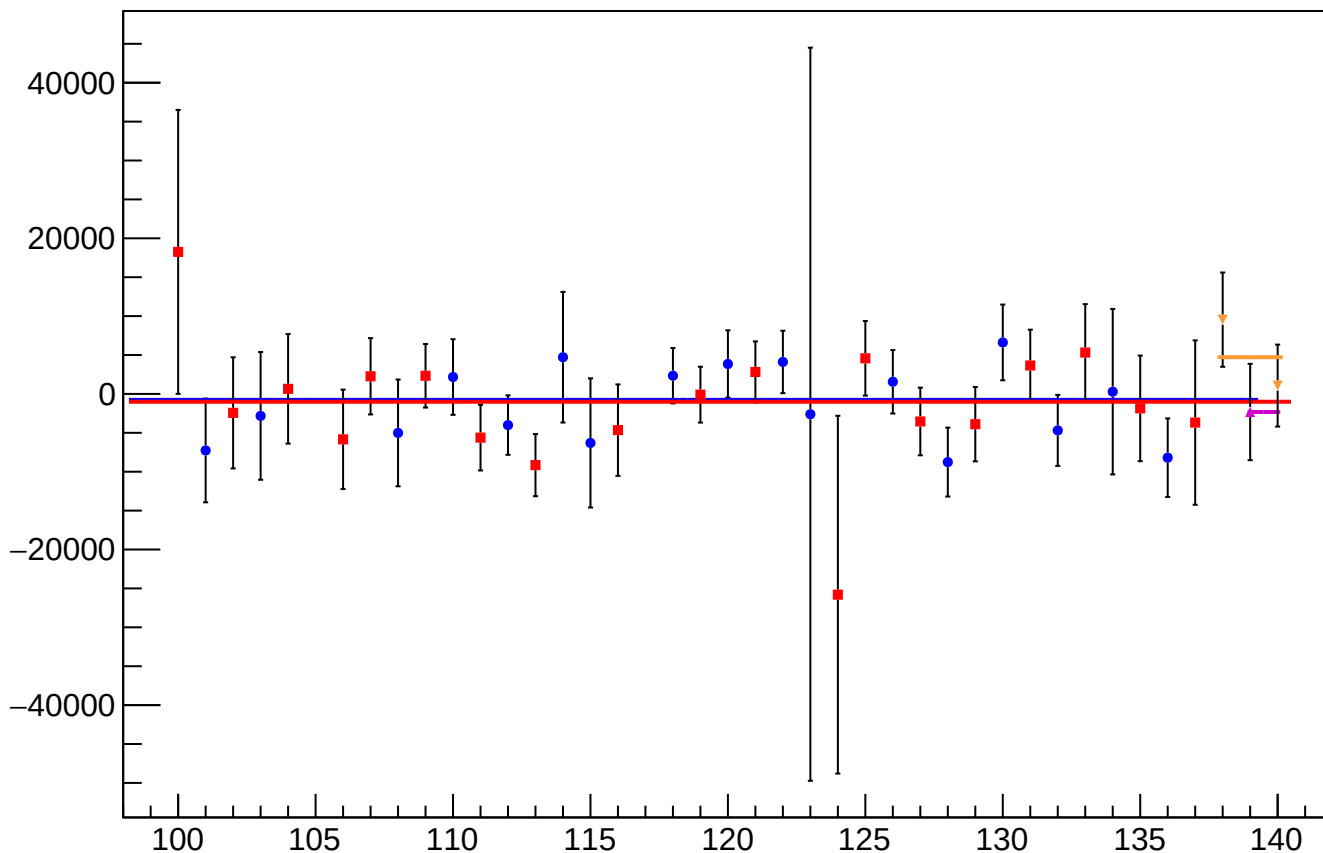
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5083.463+/-4.033  $\chi^2/\text{NDF}$ :0.0/0

Out: 4353.095+/-2.509  $\chi^2/\text{NDF}$ :10478.1/1

All: 4556.915+/-2.131  $\chi^2/\text{NDF}$ : 34117.6/2

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



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

Left Out: 4717.890+/-3975.639  $\chi^2/\text{NDF}$ : 1.1/1

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

Left In: -2326.207+/-6191.728  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2661.549+/-3345.391  $\chi^2/\text{NDF}$ : 2.0/2

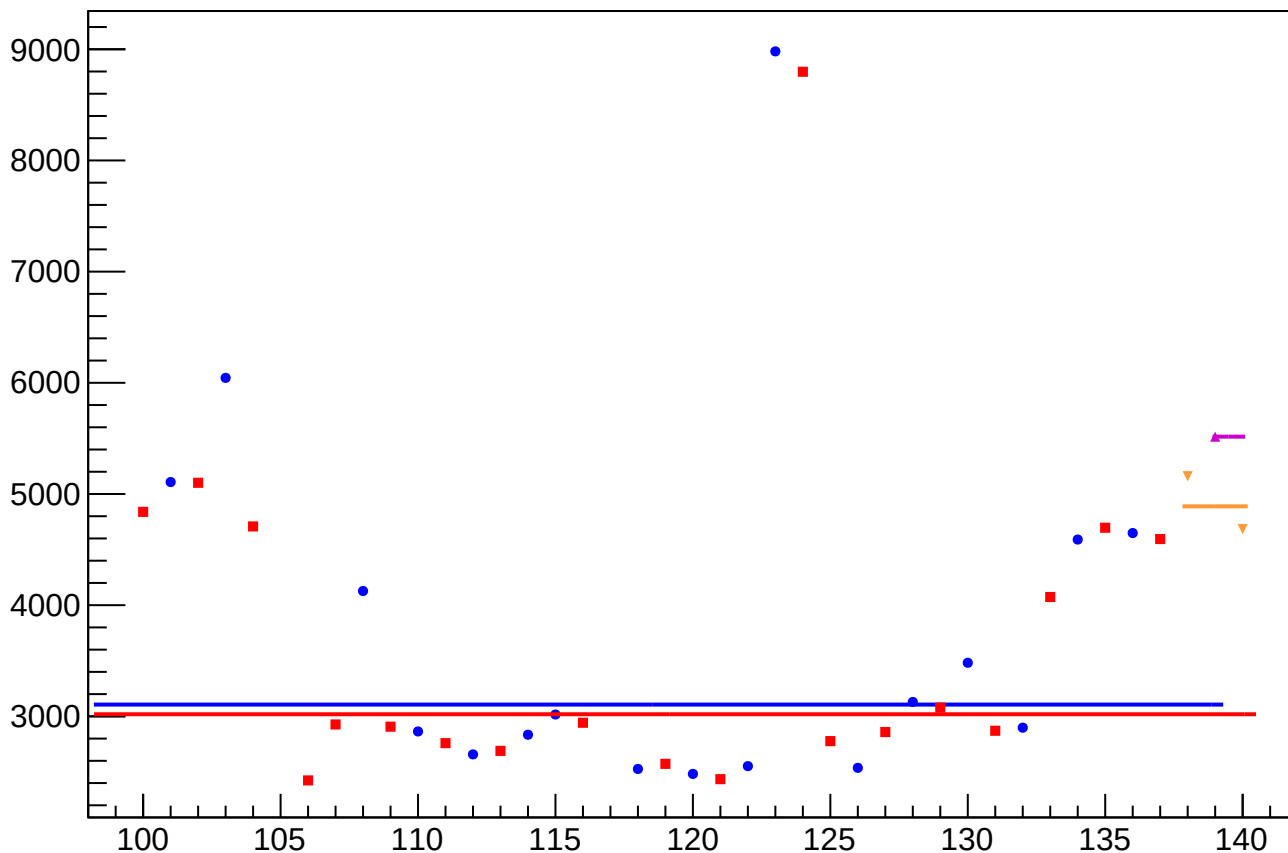
Right: -890.508+/-861.557  $\chi^2/\text{NDF}$ : 30.6/35

In: -826.025+/-1223.117  $\chi^2/\text{NDF}$ : 15.6/17

Out: -533.421+/-1141.007  $\chi^2/\text{NDF}$ : 18.0/20

All: -669.573+/-834.333  $\chi^2/\text{NDF}$ : 33.6/38

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



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

Left Out: 4888.686+/-2.811  $\chi^2/\text{NDF}$ : 7032.0/1

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

Left In: 5515.716+/-4.378  $\chi^2/\text{NDF}$ : 0.0/0

Left: 5071.731+/-2.366  $\chi^2/\text{NDF}$ : 21555.2/2

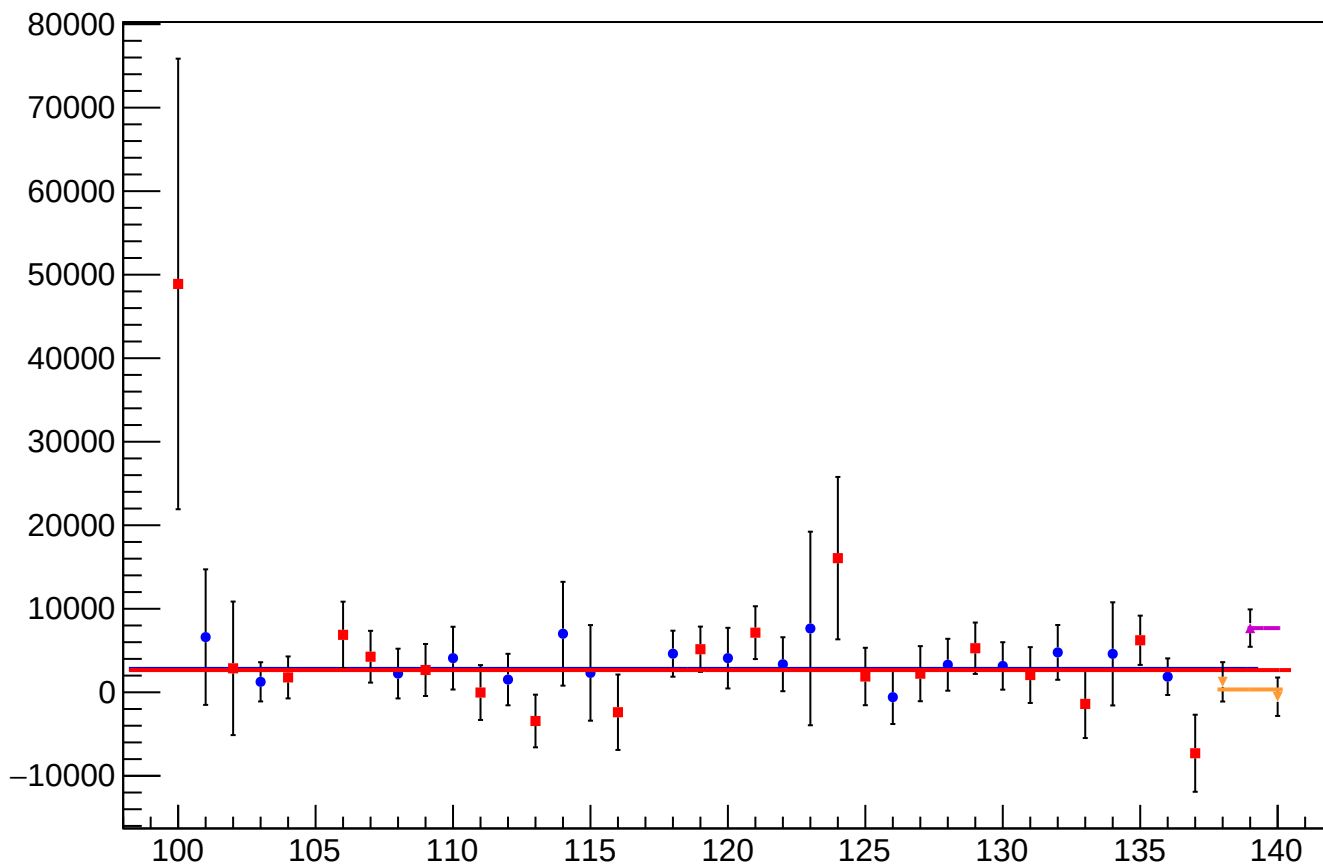
Right: 3059.752+/-0.605  $\chi^2/\text{NDF}$ : 1759257.8/35

In: 3199.887+/-0.865  $\chi^2/\text{NDF}$ : 1250969.0/17

Out: 3169.297+/-0.798  $\chi^2/\text{NDF}$ : 1208134.1/20

All: 3183.356+/-0.586  $\chi^2/\text{NDF}$ : 2459779.2/38

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



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

Left Out: 339.235+/-1646.593  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: 7685.793+/-2237.735  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2919.777+/-1326.240  $\chi^2/\text{NDF}$ : 7.3/2

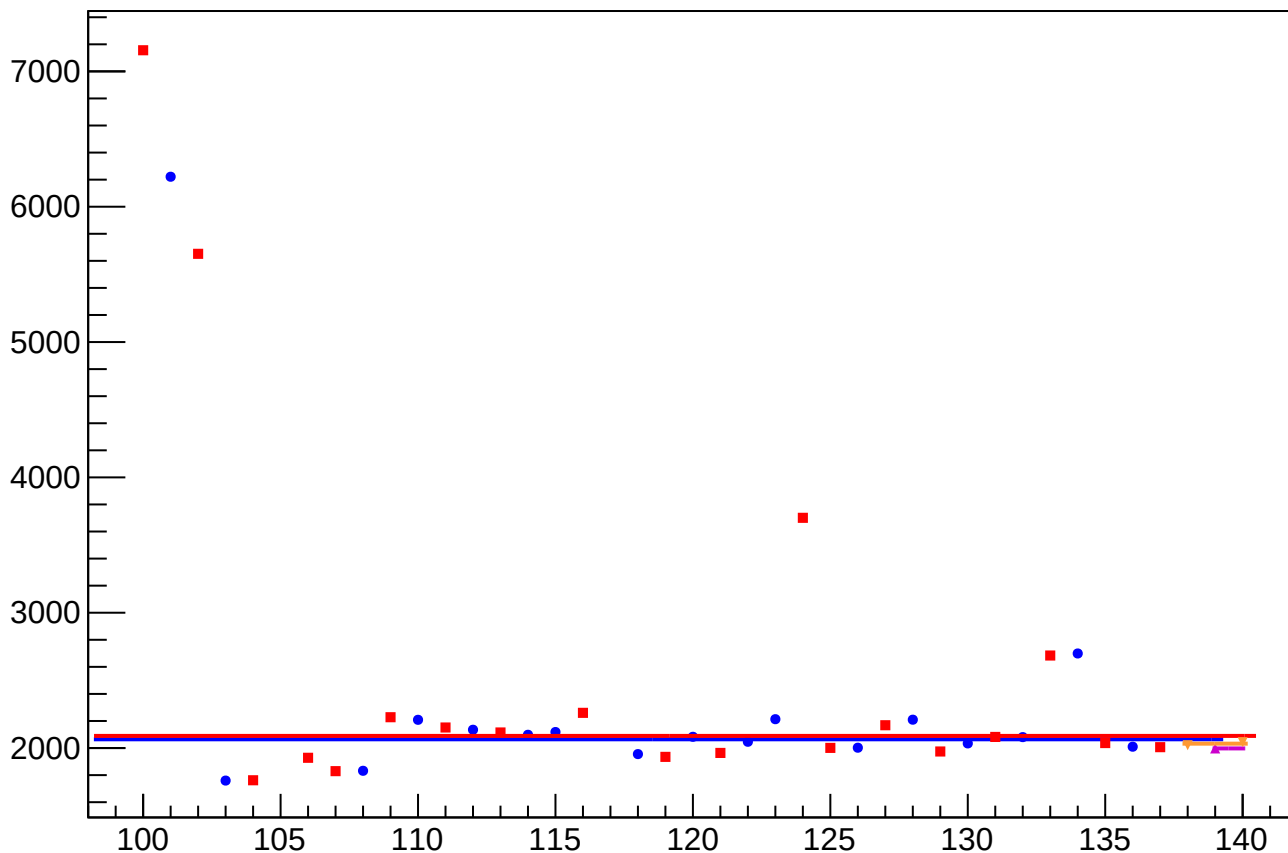
Right: 2729.773+/-574.107  $\chi^2/\text{NDF}$ : 26.8/35

In: 3372.821+/-766.046  $\chi^2/\text{NDF}$ : 8.2/17

Out: 2209.462+/-725.773  $\chi^2/\text{NDF}$ : 24.7/20

All: 2759.759+/-526.861  $\chi^2/\text{NDF}$ : 34.1/38

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



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

Left Out: 2032.459+/-1.164  $\chi^2/\text{NDF}$ : 92.6/1

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

Left In: 1997.293+/-1.582  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2020.107+/-0.938  $\chi^2/\text{NDF}$ : 413.0/2

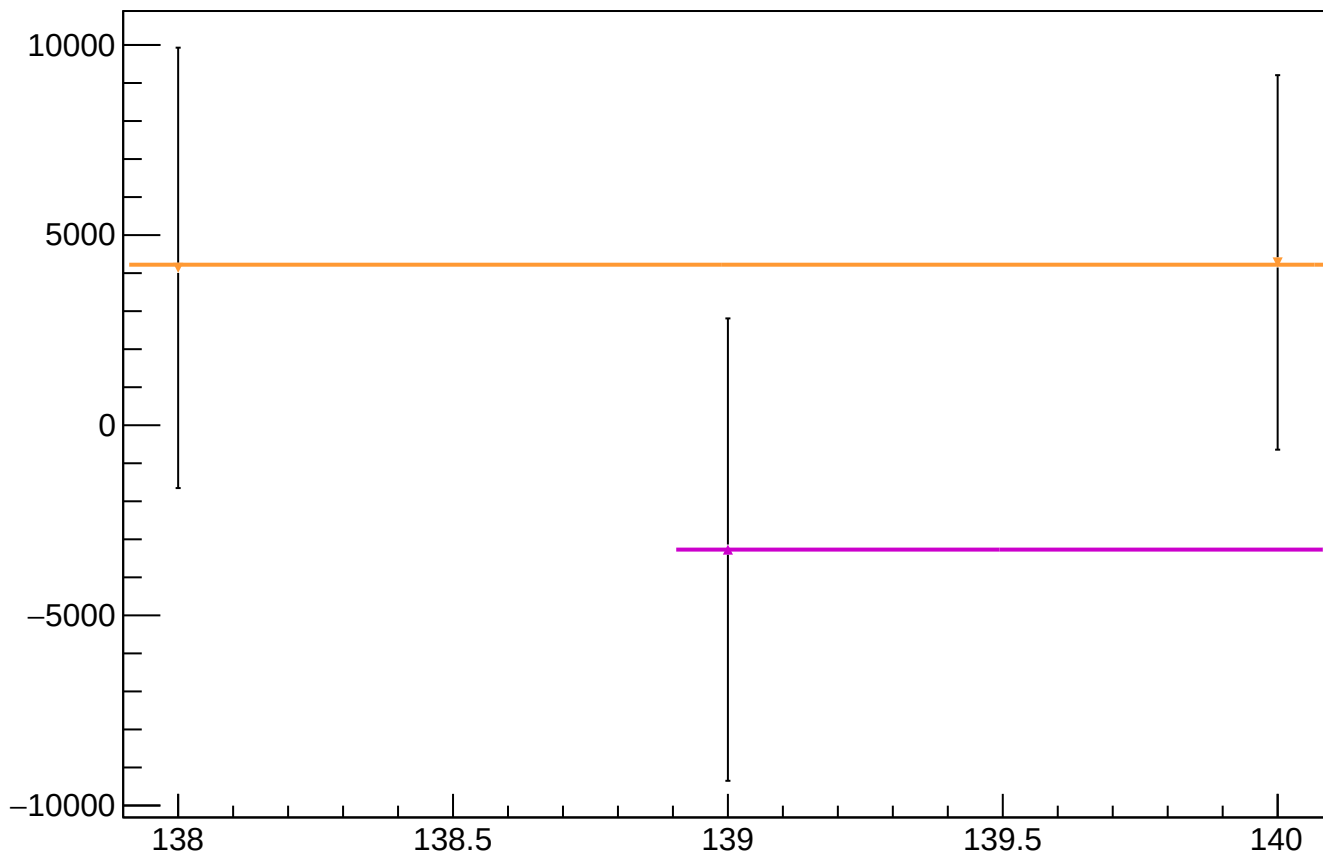
Right: 2077.355+/-0.406  $\chi^2/\text{NDF}$ : 1247943.7/35

In: 2056.806+/-0.542  $\chi^2/\text{NDF}$ : 608008.8/17

Out: 2078.656+/-0.513  $\chi^2/\text{NDF}$ : 642628.9/20

All: 2068.323+/-0.372  $\chi^2/\text{NDF}$ : 1251495.4/38

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



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

Left Out: 4221.657+/-3751.369  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -3270.378+/-6079.904  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2155.869+/-3192.565  $\chi^2/\text{NDF}$ : 1.1/2

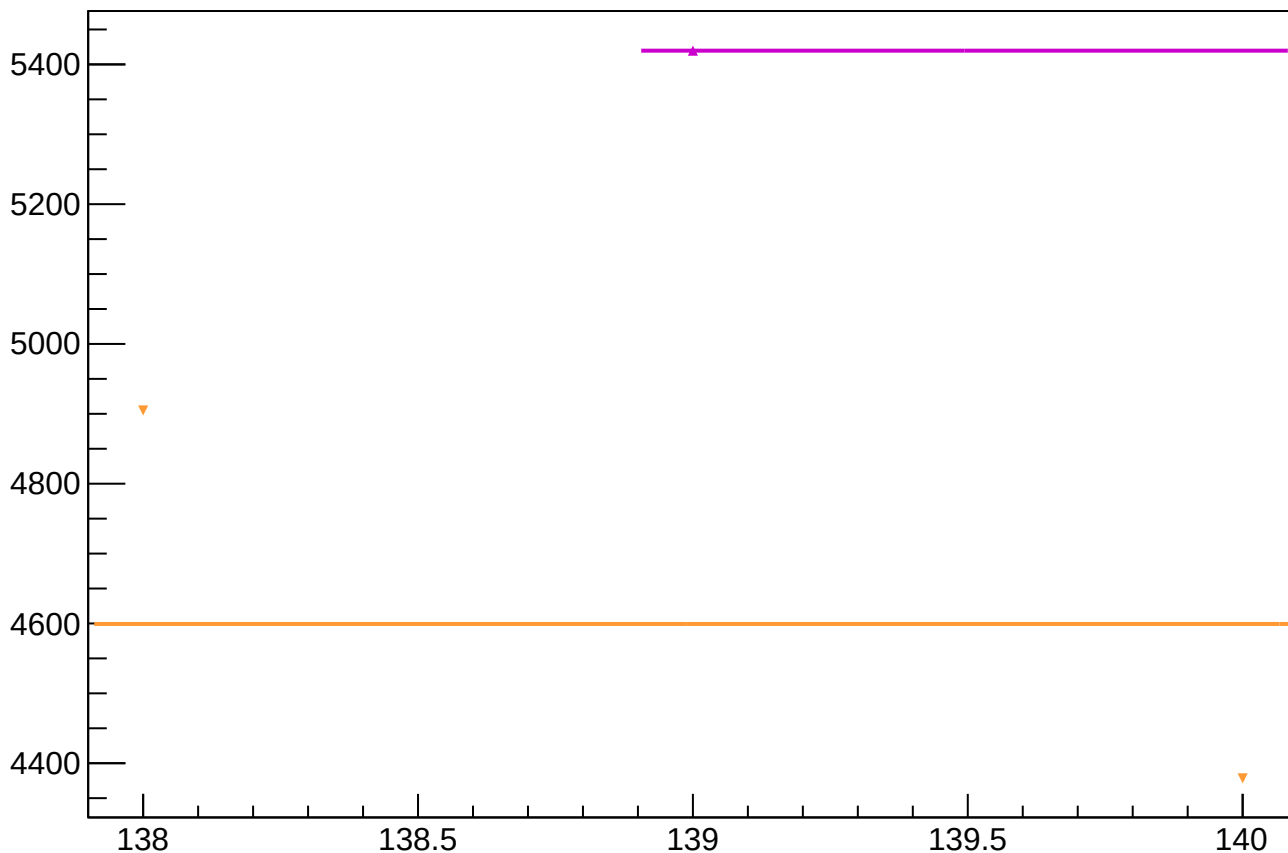
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3270.378+/-6079.904  $\chi^2/\text{NDF}$ : 0.0/0

Out: 4221.657+/-3751.369  $\chi^2/\text{NDF}$ : 0.0/1

All: 2155.869+/-3192.565  $\chi^2/\text{NDF}$ : 1.1/2

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



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

Left Out: 4599.277+/-2.653  $\chi^2/\text{NDF}$ :9593.8/1

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

Left In: 5419.661+/-4.299  $\chi^2/\text{NDF}$ :0.0/0

Left: 4825.483+/-2.257  $\chi^2/\text{NDF}$ : 35967.4/2

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

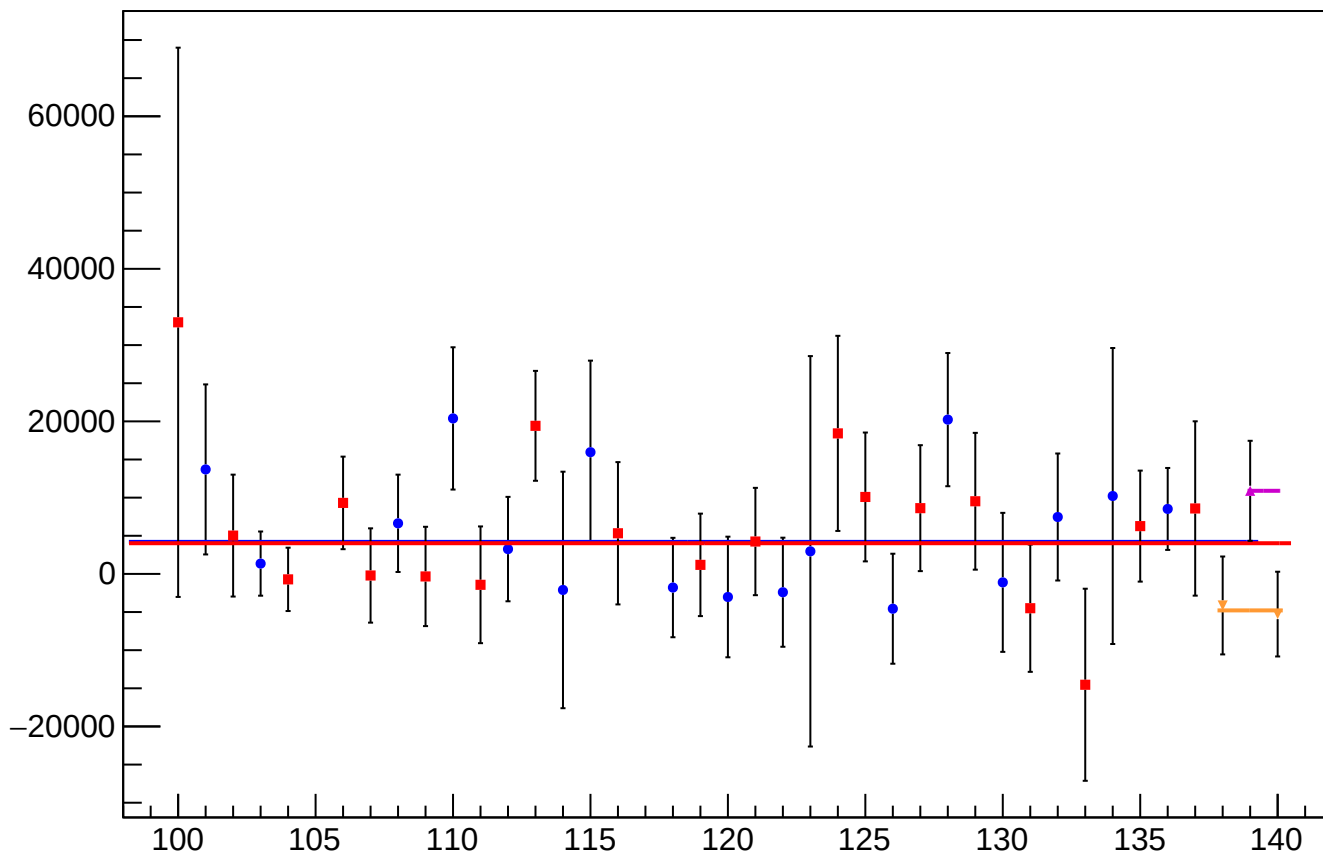
In: 5419.661+/-4.299  $\chi^2/\text{NDF}$ :0.0/0

Out: 4599.277+/-2.653  $\chi^2/\text{NDF}$ :9593.8/1

All: 4825.483+/-2.257  $\chi^2/\text{NDF}$ : 35967.4/2



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



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

Left Out: -4783.955+/-4200.571  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 10896.333+/-6556.003  $\chi^2/\text{NDF}$ : 0.0/0

Left: -220.309+/-3536.862  $\chi^2/\text{NDF}$ : 4.1/2

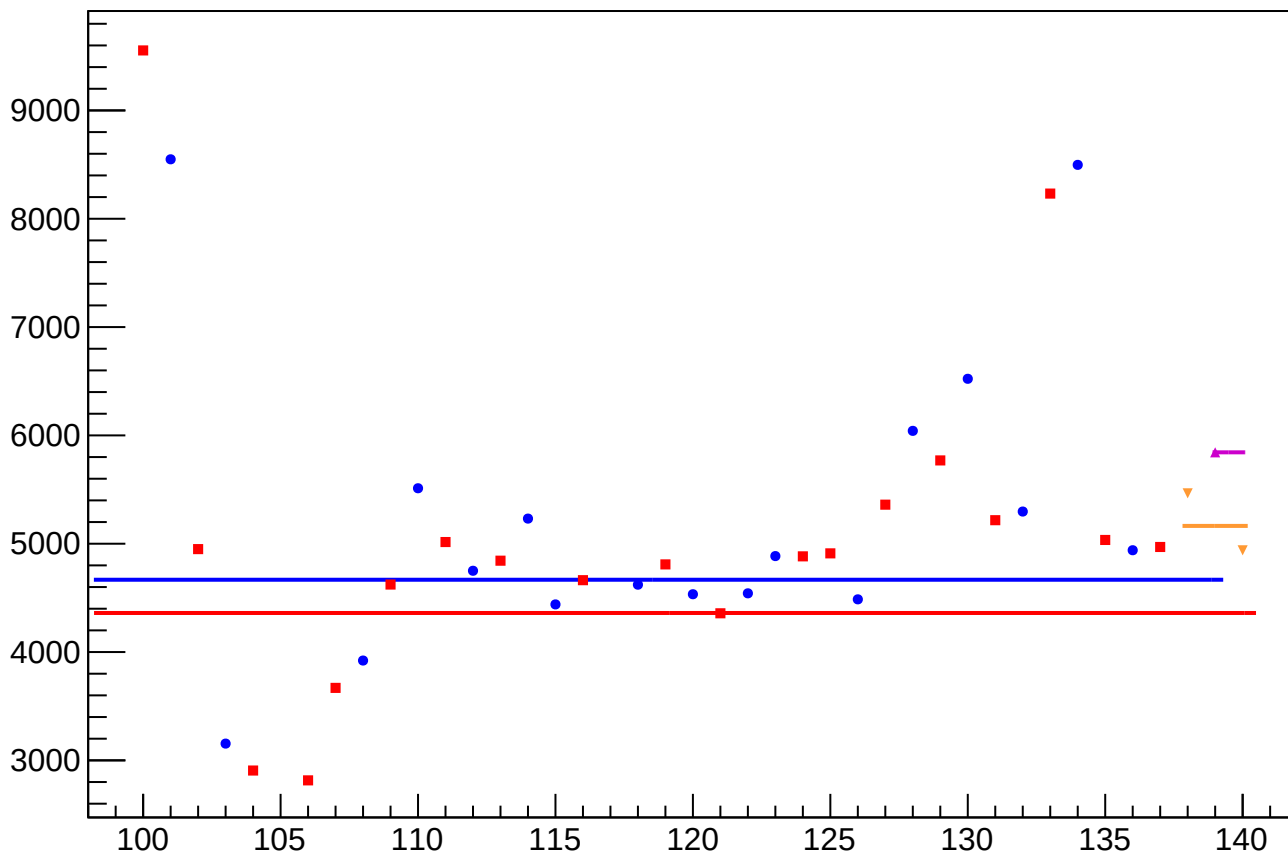
Right: 4104.755+/-1264.177  $\chi^2/\text{NDF}$ : 29.0/35

In: 4696.614+/-1787.423  $\chi^2/\text{NDF}$ : 15.1/17

Out: 2752.462+/-1595.839  $\chi^2/\text{NDF}$ : 18.6/20

All: 3614.798+/-1190.421  $\chi^2/\text{NDF}$ : 34.4/38

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



Right In: 4667.470+/-1.314  $\chi^2/\text{NDF}$ : 777857.9/16

Left Out: 5164.396+/-2.970  $\chi^2/\text{NDF}$ : 7681.1/1

Right Out: 4360.582+/-1.213  $\chi^2/\text{NDF}$ : 832745.2/18

Left In: 5843.695+/-4.636  $\chi^2/\text{NDF}$ : 0.0/0

Left: 5362.101+/-2.501  $\chi^2/\text{NDF}$ : 22903.9/2

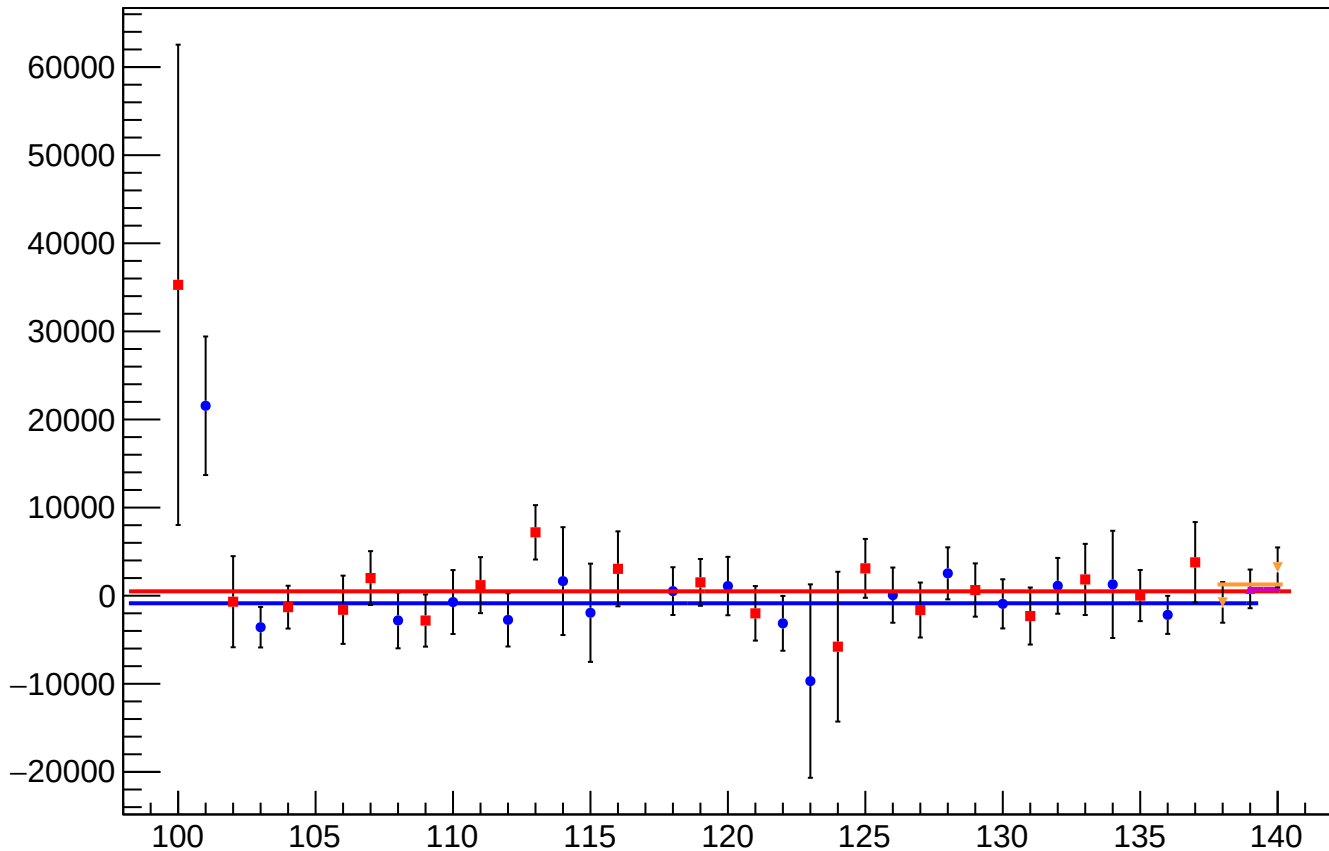
Right: 4501.800+/-0.891  $\chi^2/\text{NDF}$ : 1640064.7/35

In: 4754.901+/-1.264  $\chi^2/\text{NDF}$ : 837449.8/17

Out: 4475.453+/-1.123  $\chi^2/\text{NDF}$ : 903196.3/20

All: 4598.720+/-0.839  $\chi^2/\text{NDF}$ : 1767967.8/38

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



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

Left Out: 1278.026+/-1612.012  $\chi^2/\text{NDF}$ : 1.5/1

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

Left In: 773.362+/-2193.587  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1101.057+/-1298.979  $\chi^2/\text{NDF}$ : 1.6/2

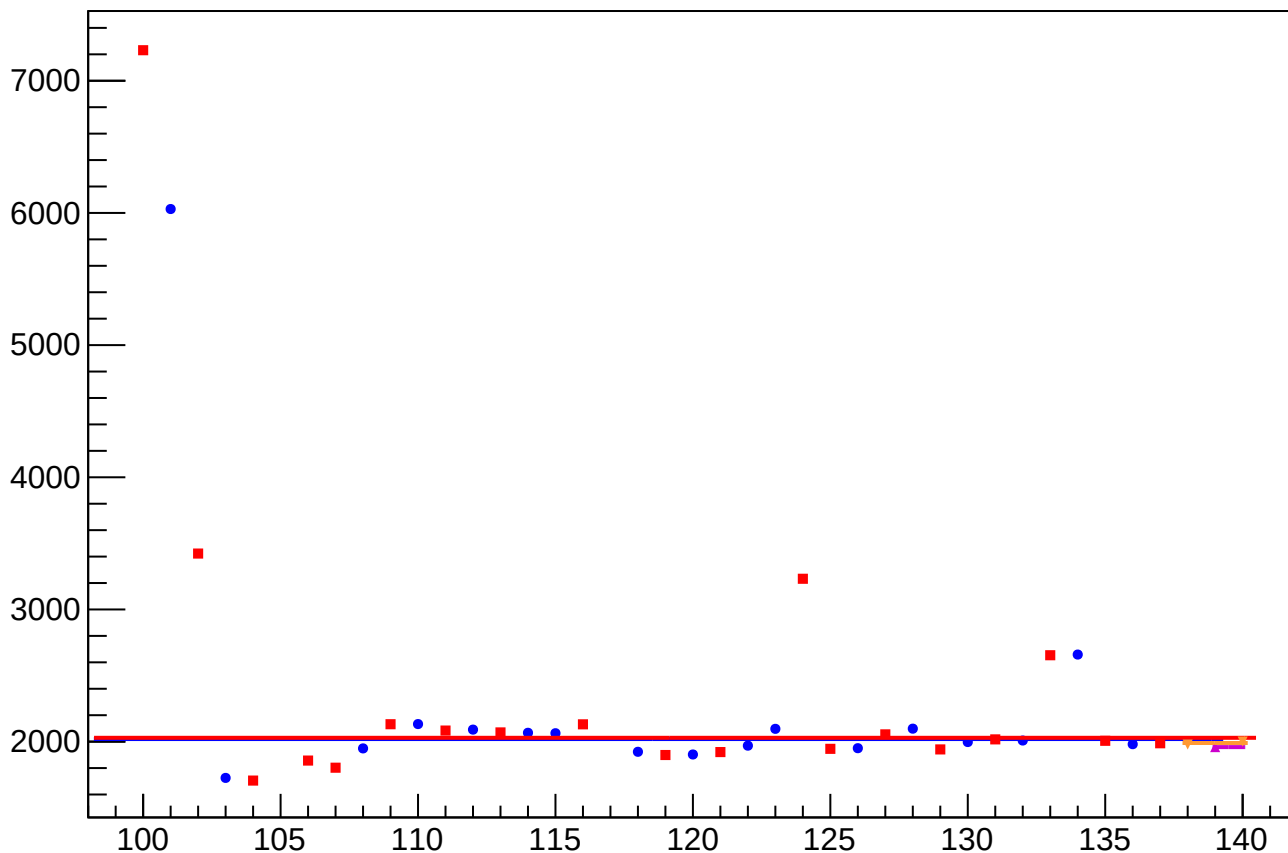
Right: -168.941+/-557.798  $\chi^2/\text{NDF}$ : 29.0/35

In: -670.099+/-749.097  $\chi^2/\text{NDF}$ : 15.1/17

Out: 643.948+/-702.801  $\chi^2/\text{NDF}$ : 14.7/20

All: 28.782+/-512.541  $\chi^2/\text{NDF}$ : 31.4/38

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



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

Left Out: 1989.663+/-1.140  $\chi^2/\text{NDF}$ : 98.0/1

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

Left In: 1958.653+/-1.551  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1978.789+/-0.919  $\chi^2/\text{NDF}$ : 357.6/2

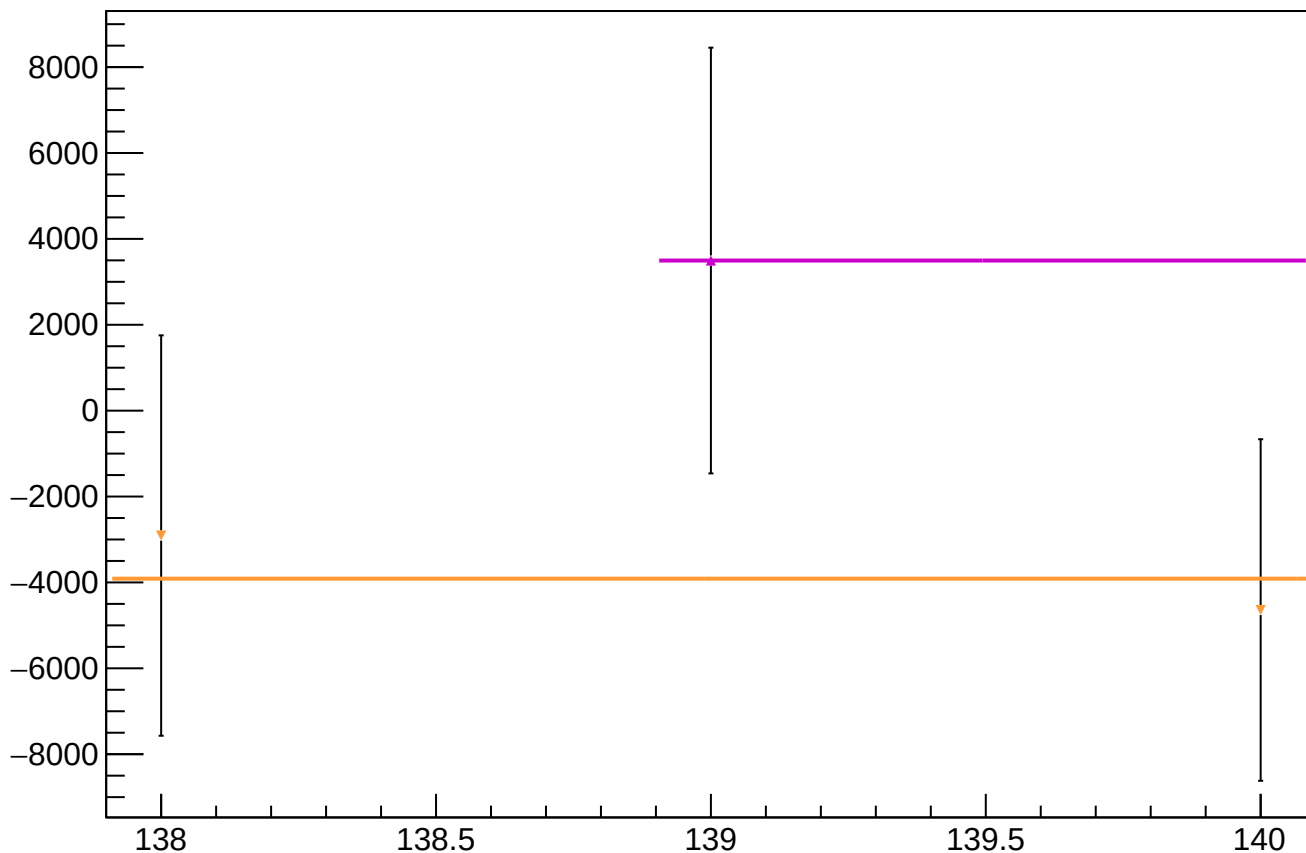
Right: 2024.407+/-0.394  $\chi^2/\text{NDF}$ : 959952.1/35

In: 2012.514+/-0.530  $\chi^2/\text{NDF}$ : 589208.0/17

Out: 2021.528+/-0.496  $\chi^2/\text{NDF}$ : 373030.6/20

All: 2017.313+/-0.362  $\chi^2/\text{NDF}$ : 962392.7/38

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



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

Left Out: -3912.105+/-3025.607  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: 3495.545+/-4957.122  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1901.517+/-2582.563  $\chi^2/\text{NDF}$ : 1.7/2

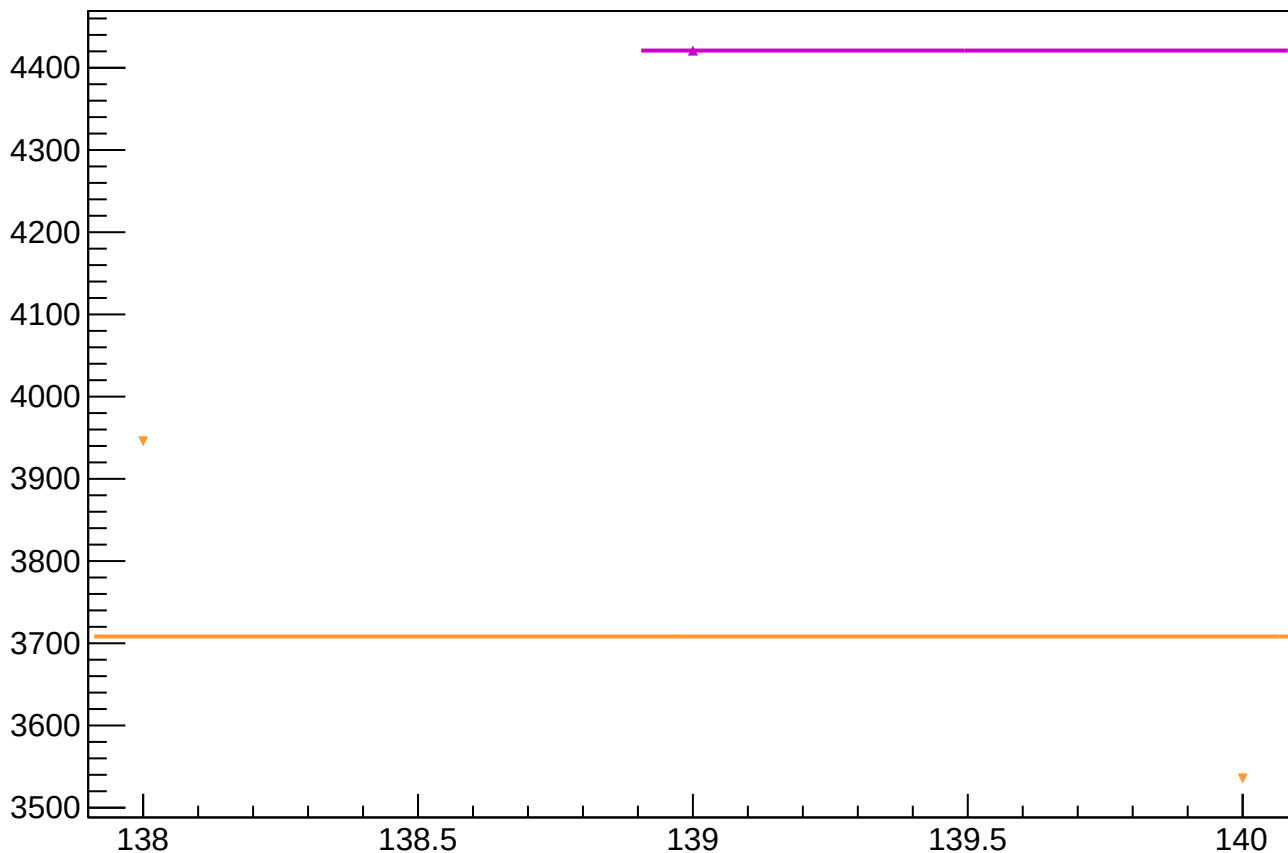
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3495.545+/-4957.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: -3912.105+/-3025.607  $\chi^2/\text{NDF}$ : 0.1/1

All: -1901.517+/-2582.563  $\chi^2/\text{NDF}$ : 1.7/2

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



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

Left Out: 3708.263+/-2.139  $\chi^2/\text{NDF}$ : 8957.1/1

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

Left In: 4420.967+/-3.505  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3901.706+/-1.826  $\chi^2/\text{NDF}$ : 39077.9/2

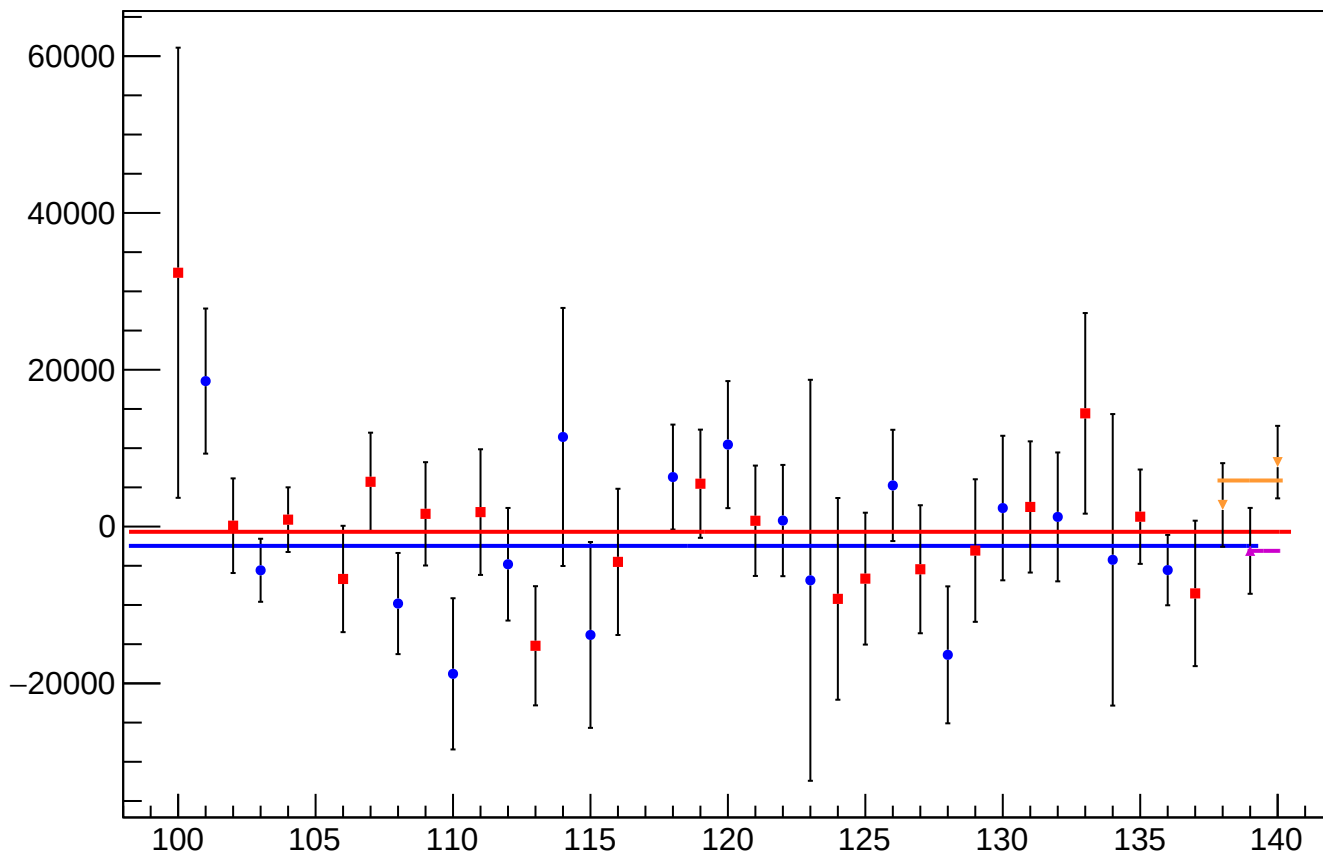
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4420.967+/-3.505  $\chi^2/\text{NDF}$ : 0.0/0

Out: 3708.263+/-2.139  $\chi^2/\text{NDF}$ : 8957.1/1

All: 3901.706+/-1.826  $\chi^2/\text{NDF}$ : 39077.9/2

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



Right In: -2462.254+/-1797.293  $\chi^2/\text{NDF}$ : 20.8/16

Left Out: 5876.482+/-3492.323  $\chi^2/\text{NDF}$ : 0.6/1

Right Out: -666.170+/-1689.812  $\chi^2/\text{NDF}$ : 11.9/18

Left In: -3096.298+/-5476.739  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3282.685+/-2944.602  $\chi^2/\text{NDF}$ : 2.5/2

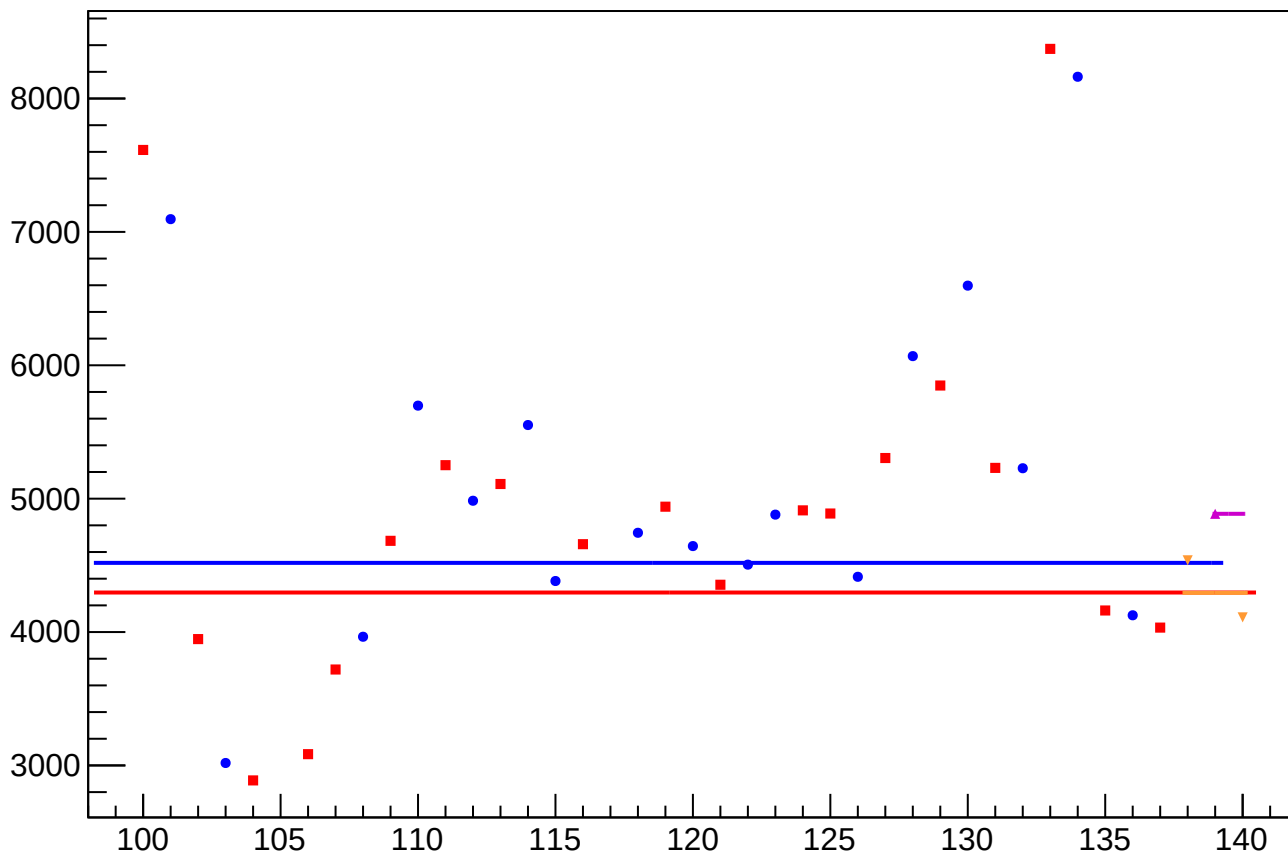
Right: -1508.905+/-1231.122  $\chi^2/\text{NDF}$ : 33.3/35

In: -2523.898+/-1707.689  $\chi^2/\text{NDF}$ : 20.8/17

Out: 575.032+/-1521.103  $\chi^2/\text{NDF}$ : 15.3/20

All: -795.948+/-1135.843  $\chi^2/\text{NDF}$ : 38.0/38

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



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

Left Out: 4293.734+/-2.469  $\chi^2/\text{NDF}$ : 7350.1/1

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

Left In: 4886.483+/-3.873  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4465.083+/-2.082  $\chi^2/\text{NDF}$ : 24005.4/2

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

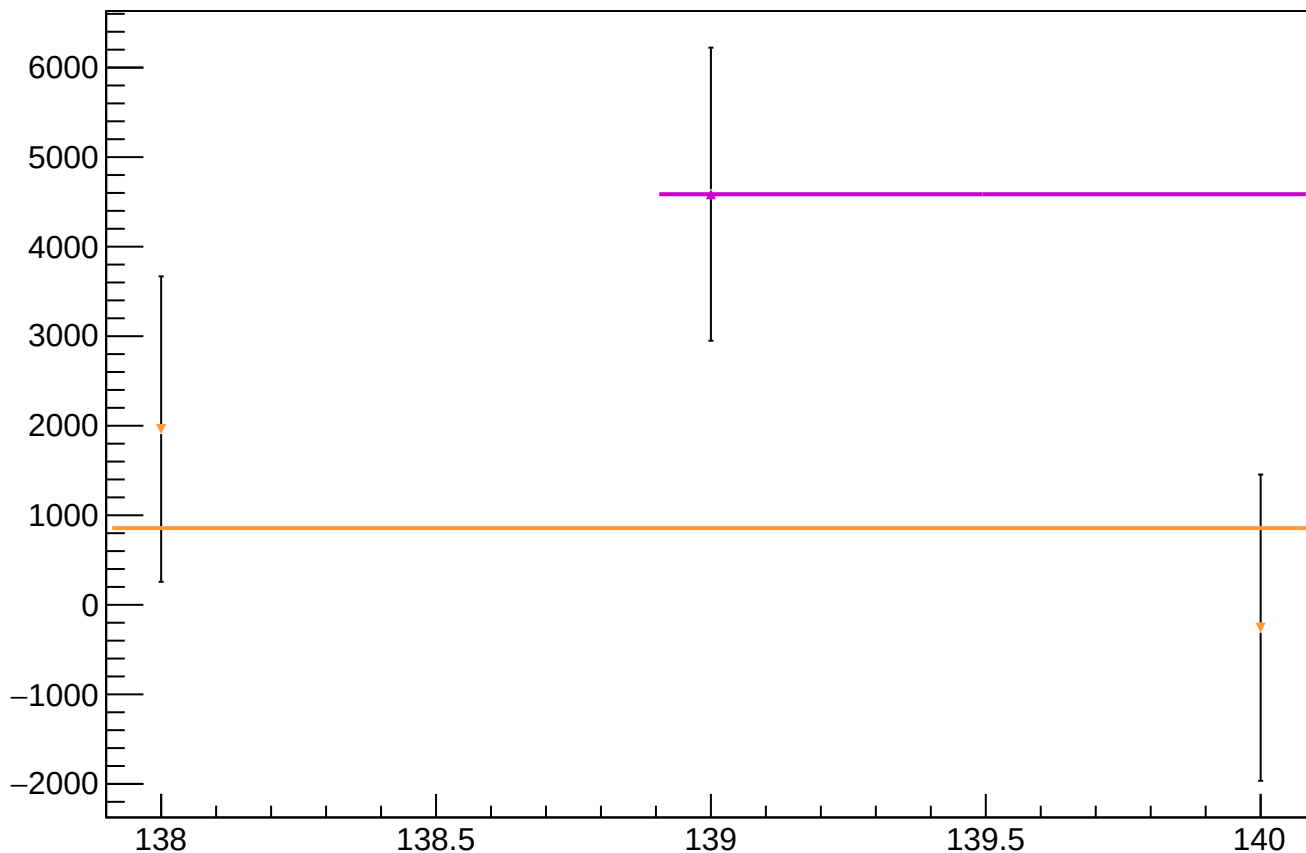
In: 4554.443+/-1.208  $\chi^2/\text{NDF}$ : 778370.0/17

Out: 4295.882+/-1.071  $\chi^2/\text{NDF}$ : 779053.5/20

All: 4409.695+/-0.801  $\chi^2/\text{NDF}$ : 1583091.2/38



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



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

Left Out:  $856.660 \pm 1207.681$   $\chi^2/\text{NDF}$ : 0.8/1

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

Left In:  $4585.831 \pm 1636.486$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $2171.508 \pm 971.726$   $\chi^2/\text{NDF}$ : 4.2/2

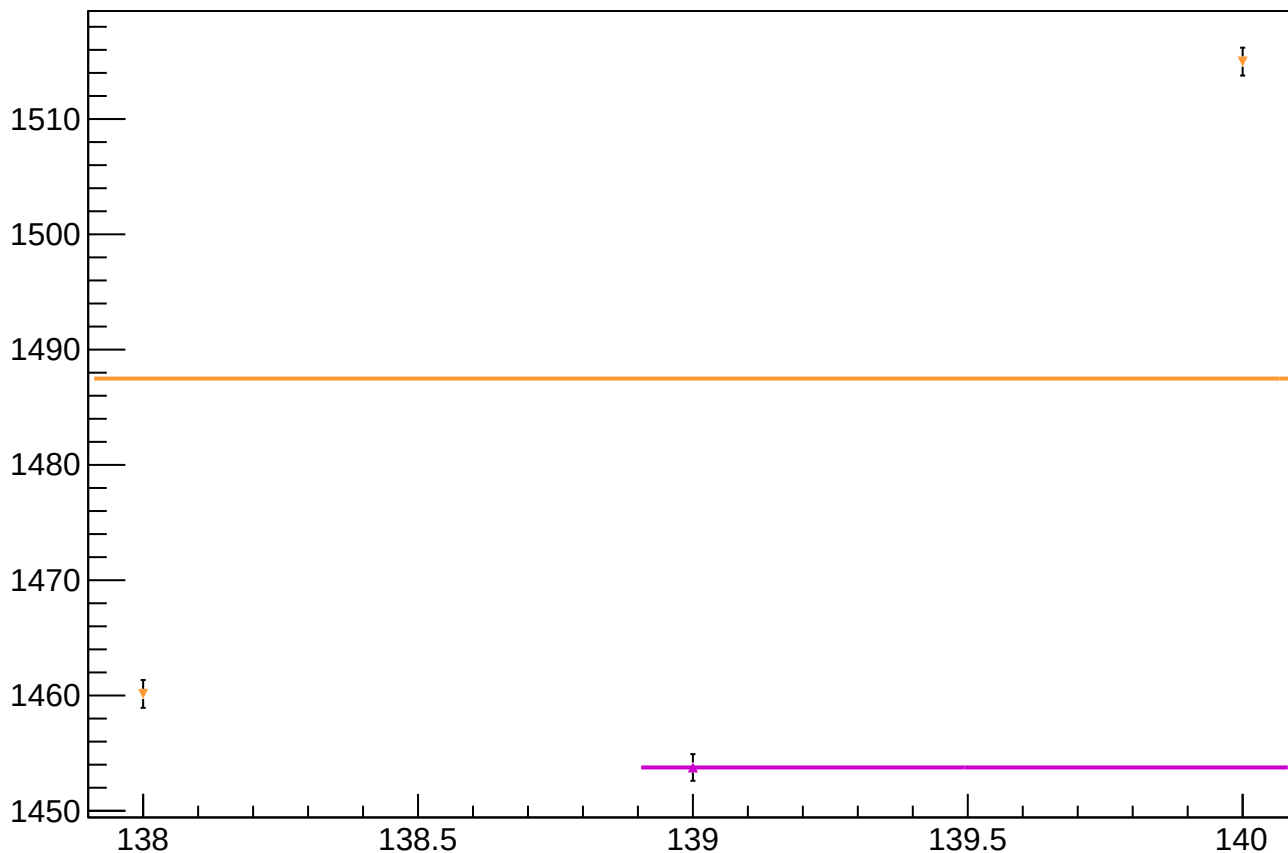
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $4585.831 \pm 1636.486$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $856.660 \pm 1207.681$   $\chi^2/\text{NDF}$ : 0.8/1

All:  $2171.508 \pm 971.726$   $\chi^2/\text{NDF}$ : 4.2/2

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: 1487.488+/-0.854  $\chi^2/\text{NDF}$ :1031.2/1

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

Left In: 1453.759+/-1.157  $\chi^2/\text{NDF}$ :0.0/0

Left: 1475.595+/-0.687  $\chi^2/\text{NDF}$ : 1581.2/2

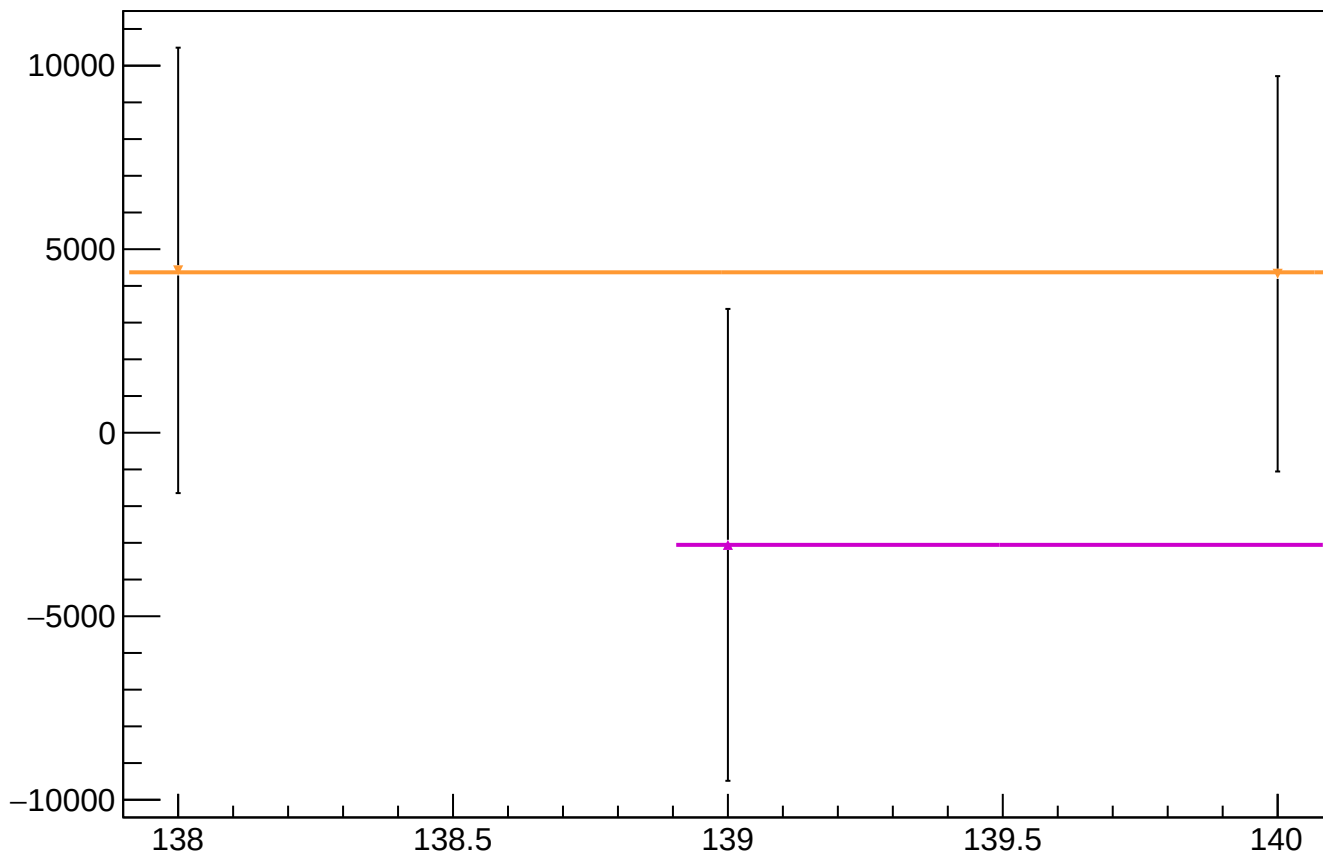
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1453.759+/-1.157  $\chi^2/\text{NDF}$ :0.0/0

Out: 1487.488+/-0.854  $\chi^2/\text{NDF}$ :1031.2/1

All: 1475.595+/-0.687  $\chi^2/\text{NDF}$ : 1581.2/2

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: 4370.603+/-4027.921  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -3055.048+/-6428.055  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2276.992+/-3413.189  $\chi^2/\text{NDF}$ : 1.0/2

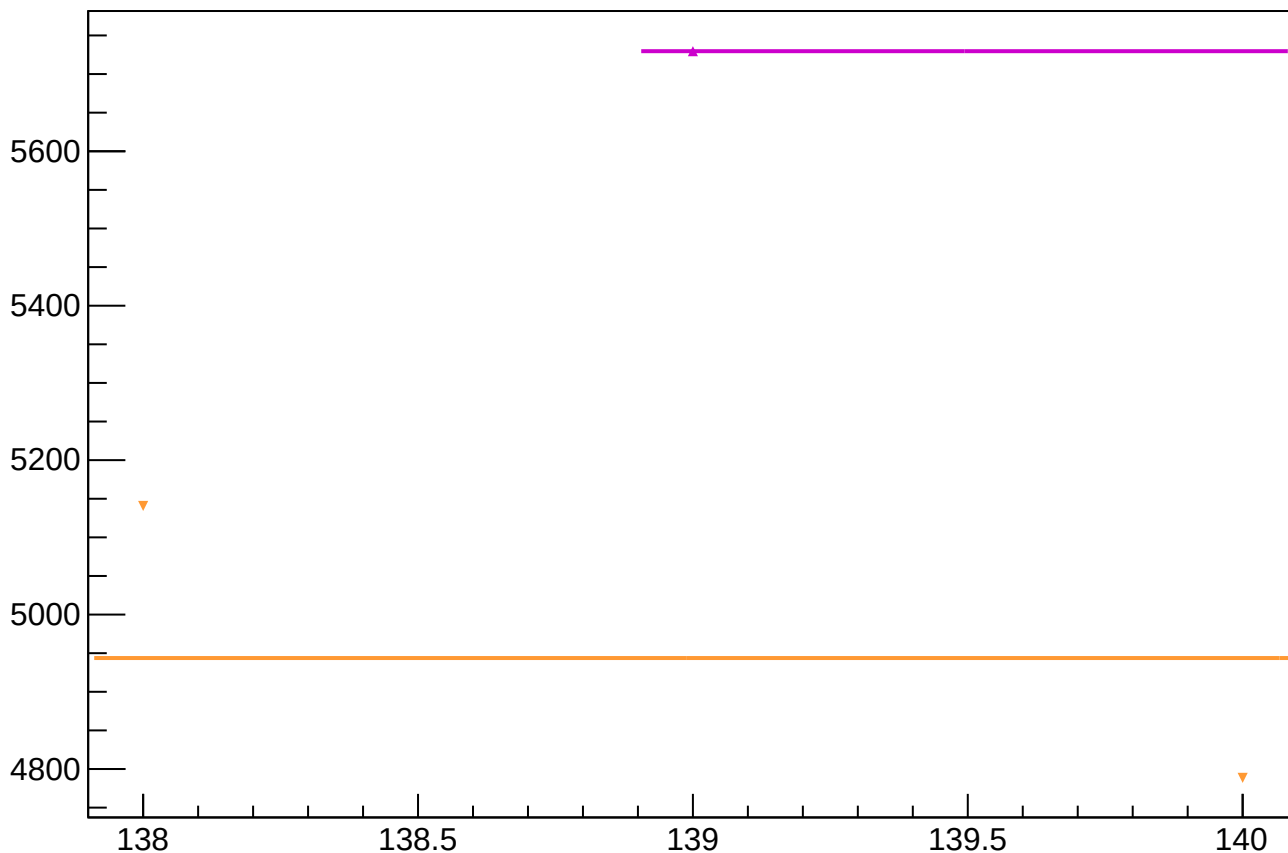
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3055.048+/-6428.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 4370.603+/-4027.921  $\chi^2/\text{NDF}$ : 0.0/1

All: 2276.992+/-3413.189  $\chi^2/\text{NDF}$ : 1.0/2

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: 4943.713+/-2.848  $\chi^2/\text{NDF}$ :3767.6/1

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

Left In: 5729.619+/-4.545  $\chi^2/\text{NDF}$ :0.0/0

Left: 5165.294+/-2.413  $\chi^2/\text{NDF}$ : 25234.6/2

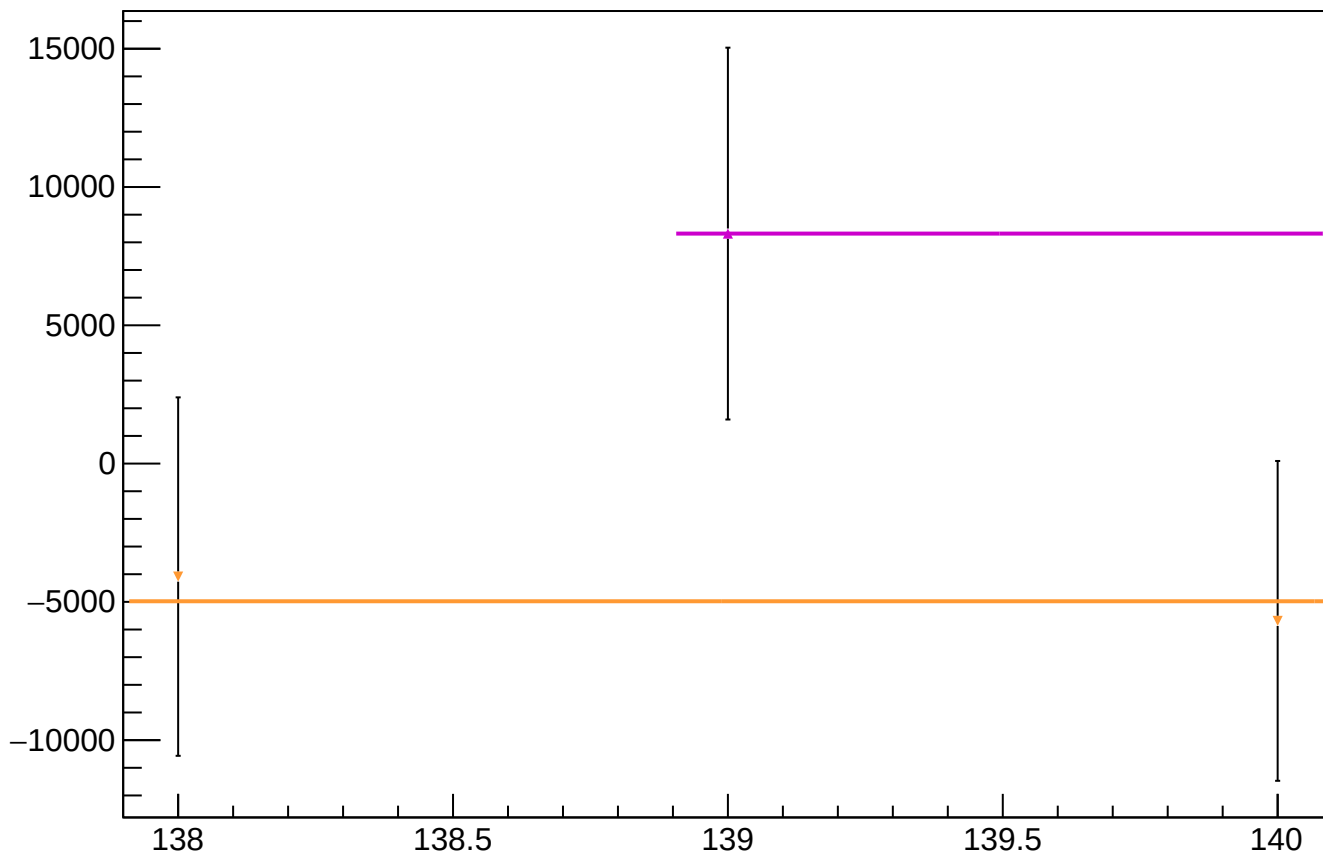
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5729.619+/-4.545  $\chi^2/\text{NDF}$ :0.0/0

Out: 4943.713+/-2.848  $\chi^2/\text{NDF}$ :3767.6/1

All: 5165.294+/-2.413  $\chi^2/\text{NDF}$ : 25234.6/2

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: -4977.977+/-4314.367  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 8315.996+/-6722.512  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1099.798+/-3630.932  $\chi^2/\text{NDF}$ : 2.8/2

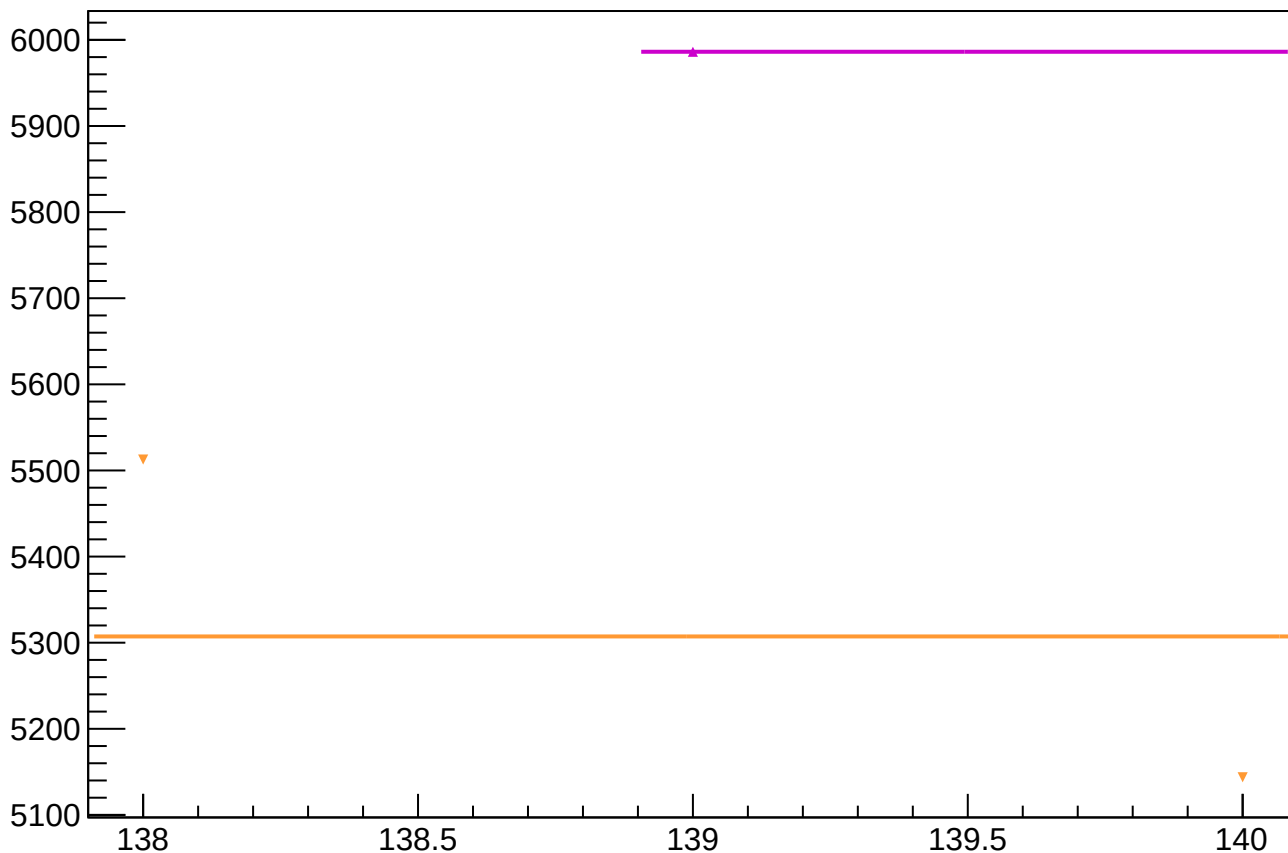
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8315.996+/-6722.512  $\chi^2/\text{NDF}$ : 0.0/0

Out: -4977.977+/-4314.367  $\chi^2/\text{NDF}$ : 0.0/1

All: -1099.798+/-3630.932  $\chi^2/\text{NDF}$ : 2.8/2

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: 5307.252+/-3.051  $\chi^2/\text{NDF}$ :3609.6/1

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

Left In: 5986.200+/-4.754  $\chi^2/\text{NDF}$ :0.0/0

Left: 5505.318+/-2.567  $\chi^2/\text{NDF}$ : 18058.7/2

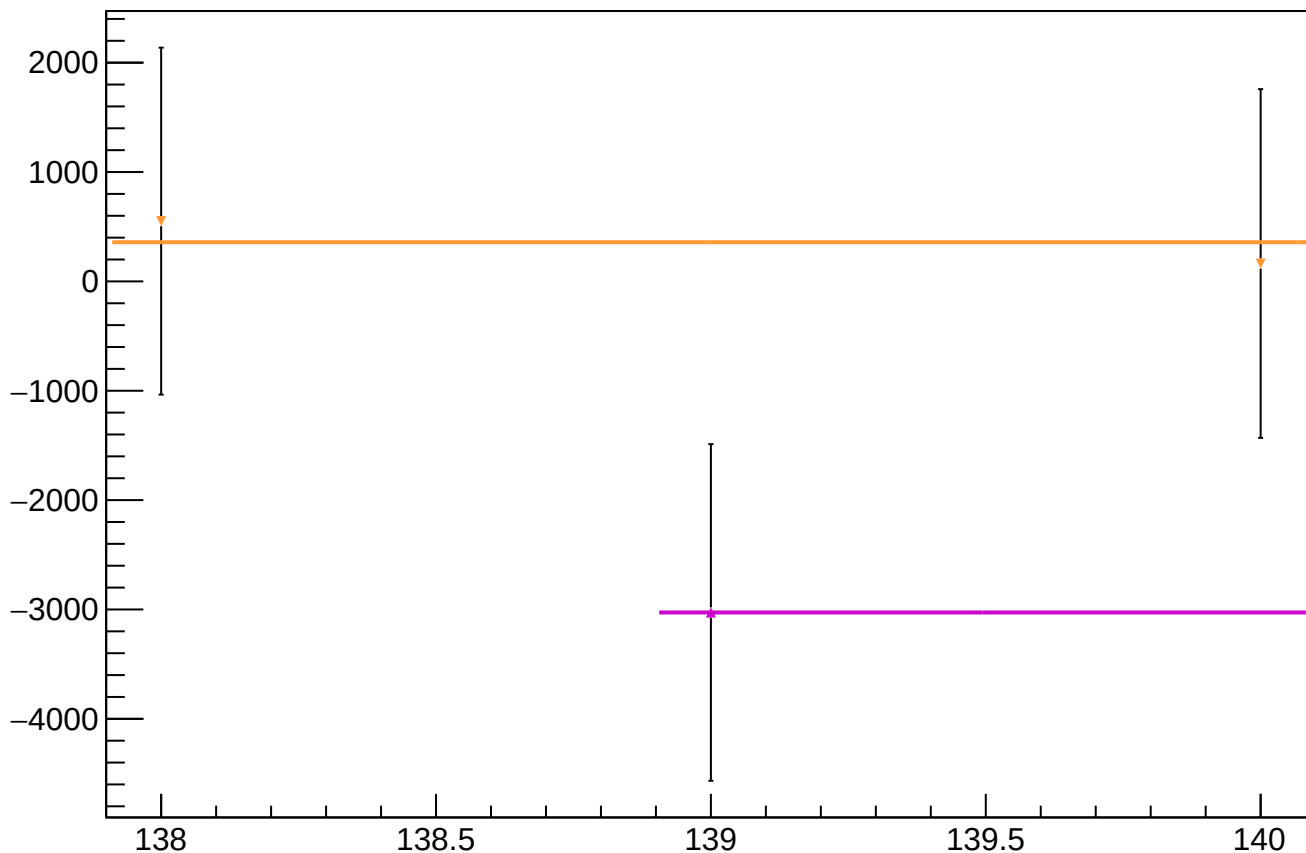
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5986.200+/-4.754  $\chi^2/\text{NDF}$ :0.0/0

Out: 5307.252+/-3.051  $\chi^2/\text{NDF}$ :3609.6/1

All: 5505.318+/-2.567  $\chi^2/\text{NDF}$ : 18058.7/2

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: 358.137+/-1124.529  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -3027.467+/-1539.244  $\chi^2/\text{NDF}$ : 0.0/0

Left: -820.044+/-908.020  $\chi^2/\text{NDF}$ : 3.2/2

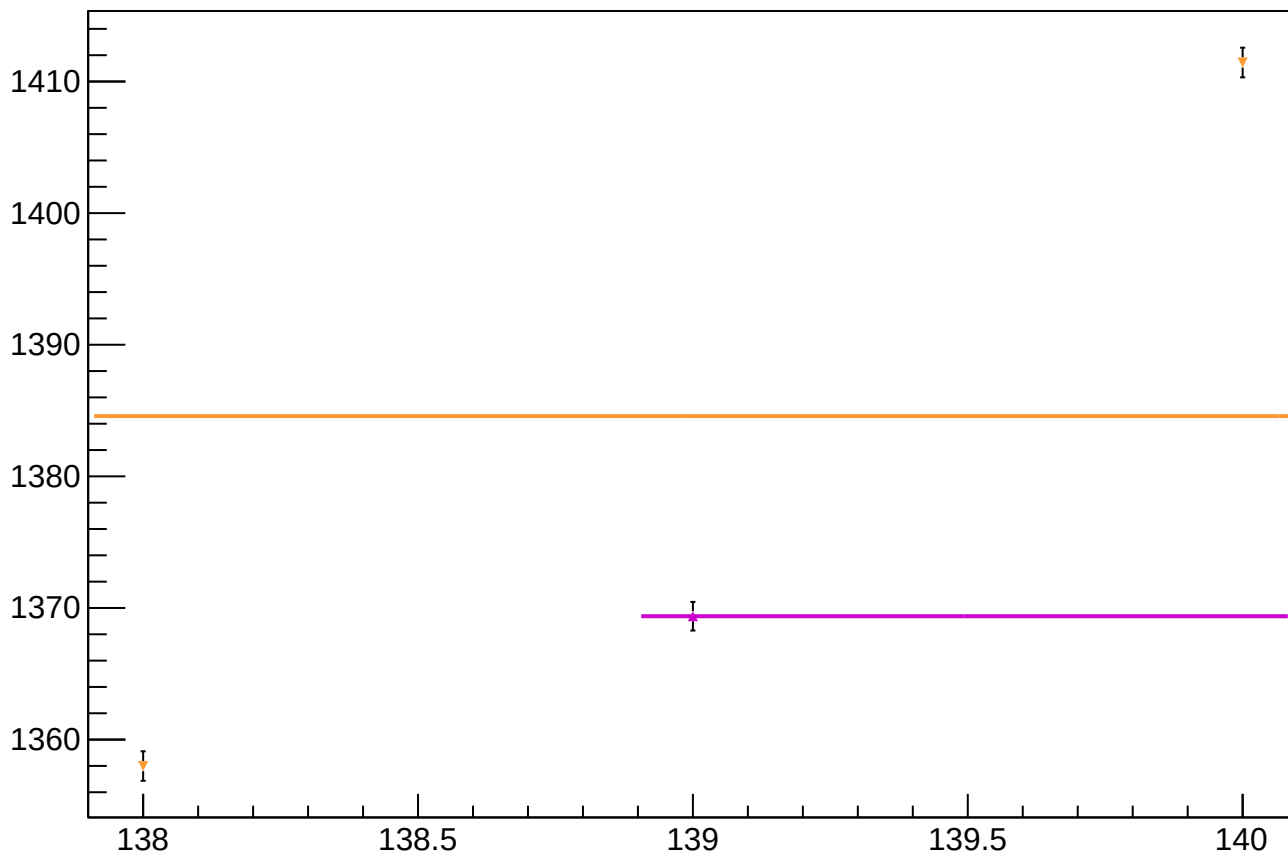
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3027.467+/-1539.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 358.137+/-1124.529  $\chi^2/\text{NDF}$ : 0.0/1

All: -820.044+/-908.020  $\chi^2/\text{NDF}$ : 3.2/2

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: 1384.582+/-0.795  $\chi^2/\text{NDF}$ :1129.7/1

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

Left In: 1369.373+/-1.088  $\chi^2/\text{NDF}$ :0.0/0

Left: 1379.289+/-0.642  $\chi^2/\text{NDF}$ : 1257.0/2

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

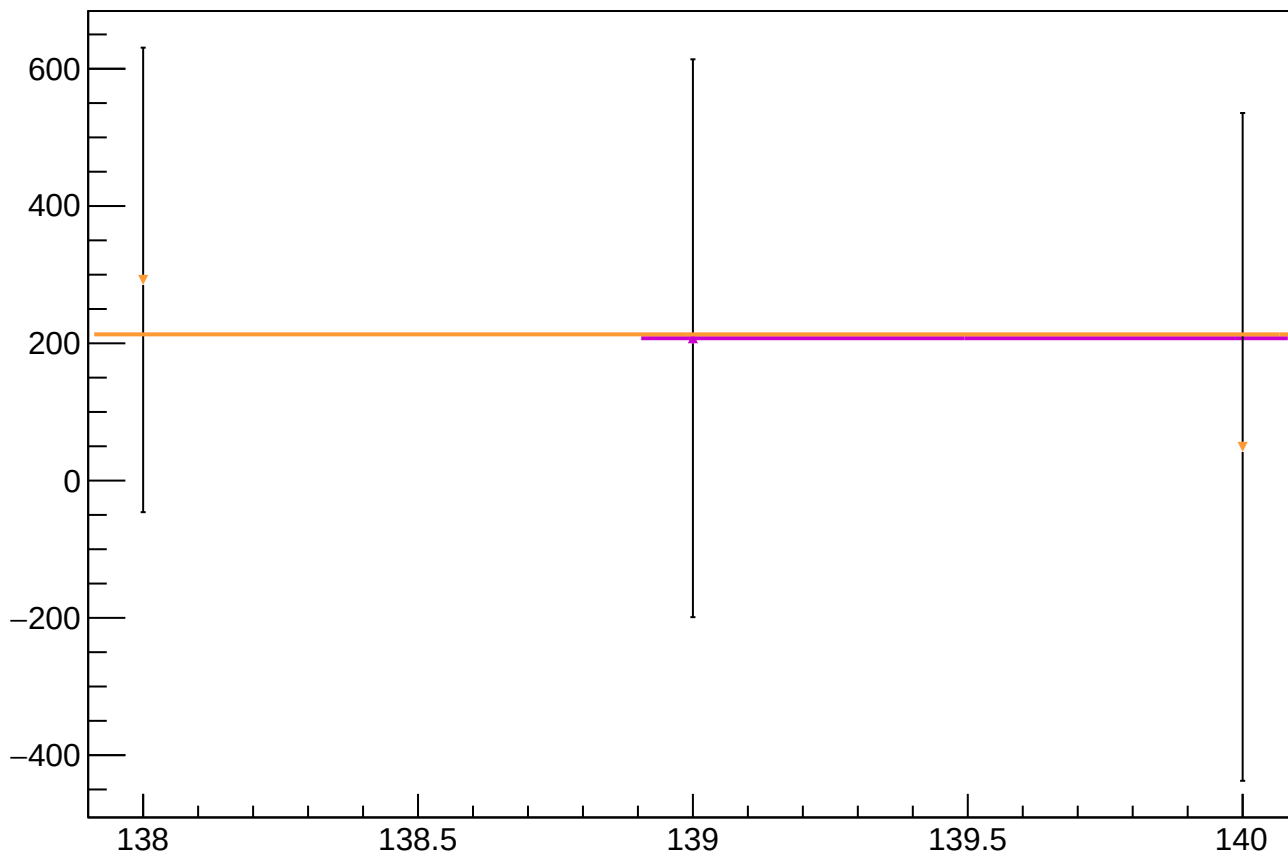
In: 1369.373+/-1.088  $\chi^2/\text{NDF}$ :0.0/0

Out: 1384.582+/-0.795  $\chi^2/\text{NDF}$ :1129.7/1

All: 1379.289+/-0.642  $\chi^2/\text{NDF}$ : 1257.0/2



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: 213.046+/-277.773  $\chi^2/\text{NDF}$ : 0.2/1

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

Left In: 207.416+/-406.373  $\chi^2/\text{NDF}$ : 0.0/0

Left: 211.253+/-229.319  $\chi^2/\text{NDF}$ : 0.2/2

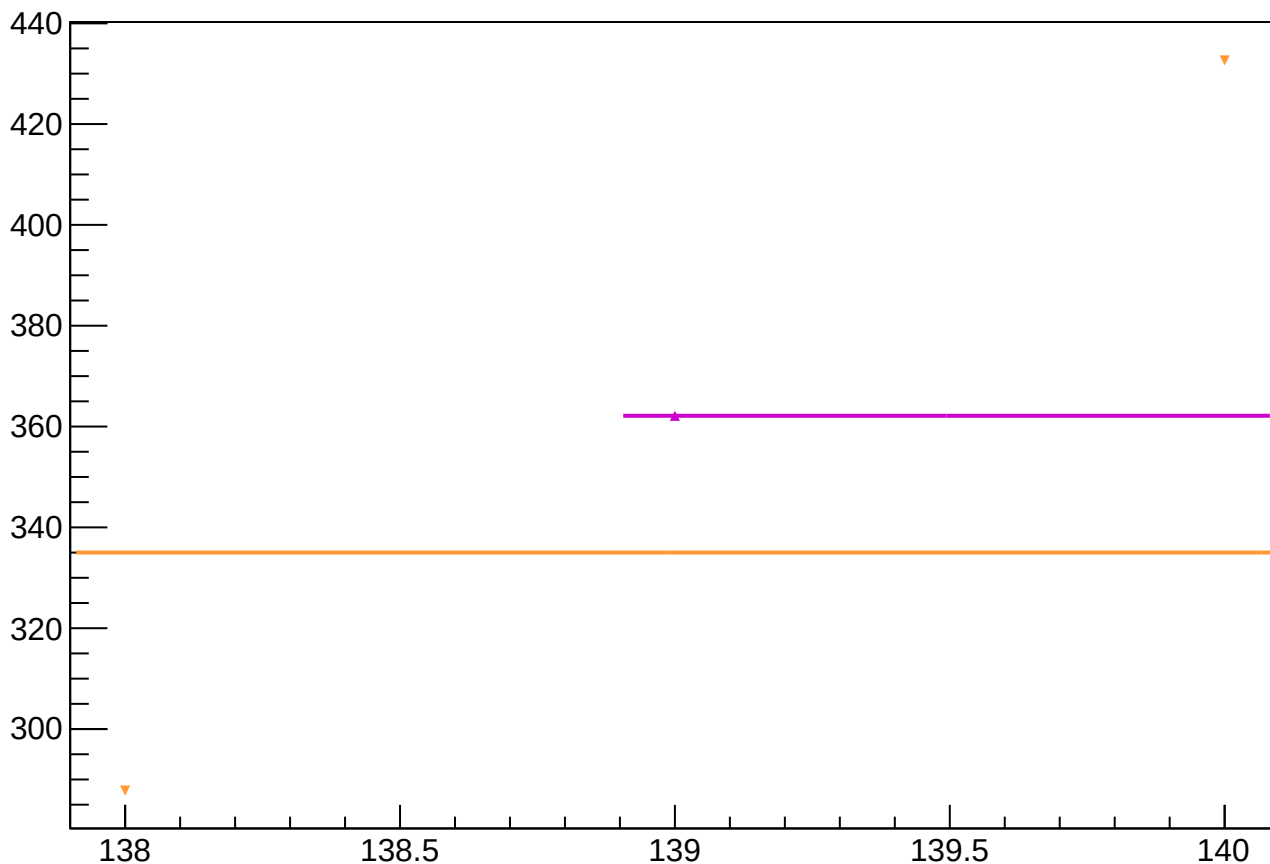
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 207.416+/-406.373  $\chi^2/\text{NDF}$ : 0.0/0

Out: 213.046+/-277.773  $\chi^2/\text{NDF}$ : 0.2/1

All: 211.253+/-229.319  $\chi^2/\text{NDF}$ : 0.2/2

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: 335.015+/-0.196  $\chi^2/\text{NDF}$ :119469.1/1

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

Left In: 362.139+/-0.287  $\chi^2/\text{NDF}$ :0.0/0

Left: 343.653+/-0.162  $\chi^2/\text{NDF}$ : 125541.8/2

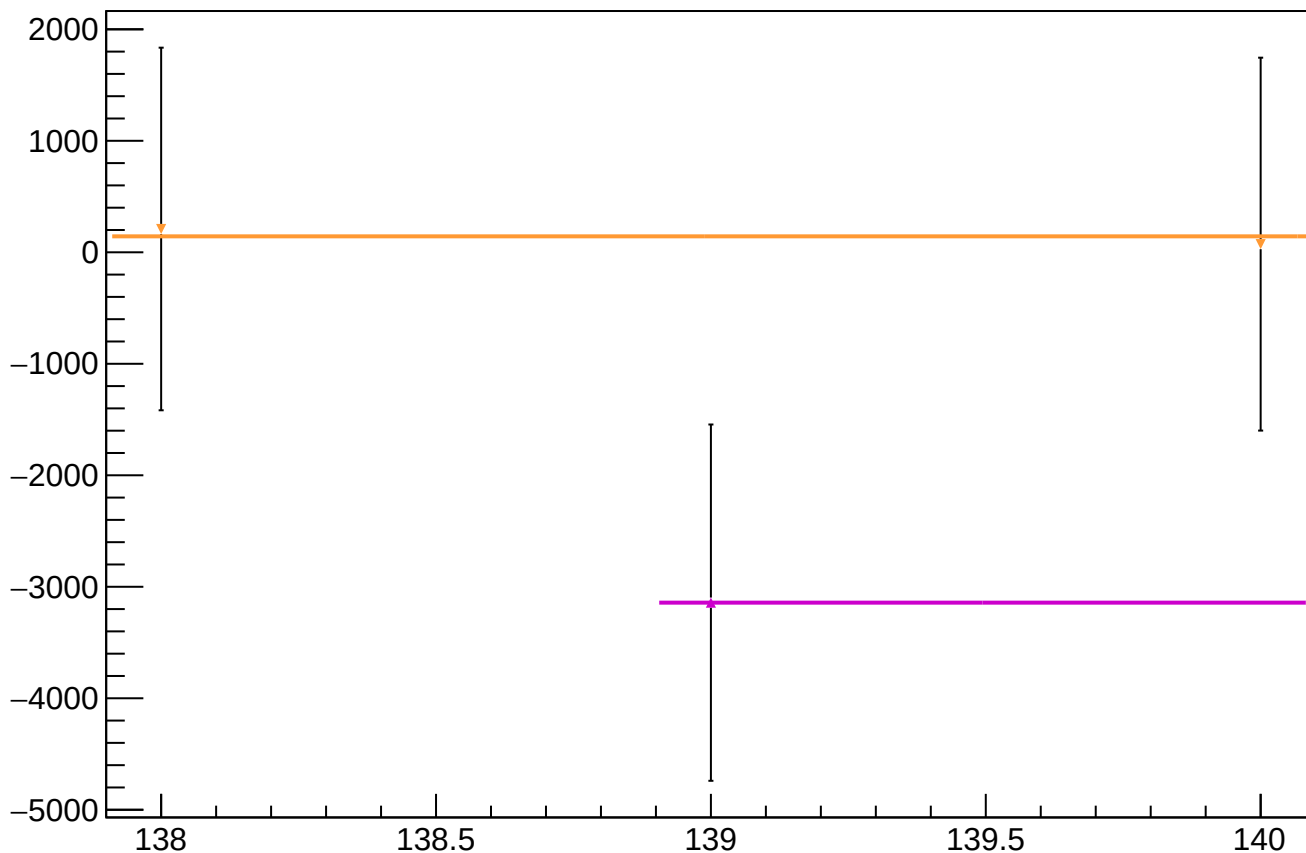
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 362.139+/-0.287  $\chi^2/\text{NDF}$ :0.0/0

Out: 335.015+/-0.196  $\chi^2/\text{NDF}$ :119469.1/1

All: 343.653+/-0.162  $\chi^2/\text{NDF}$ : 125541.8/2

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: 143.054+/-1165.837  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -3142.332+/-1597.844  $\chi^2/\text{NDF}$ : 0.0/0

Left: -998.330+/-941.797  $\chi^2/\text{NDF}$ : 2.8/2

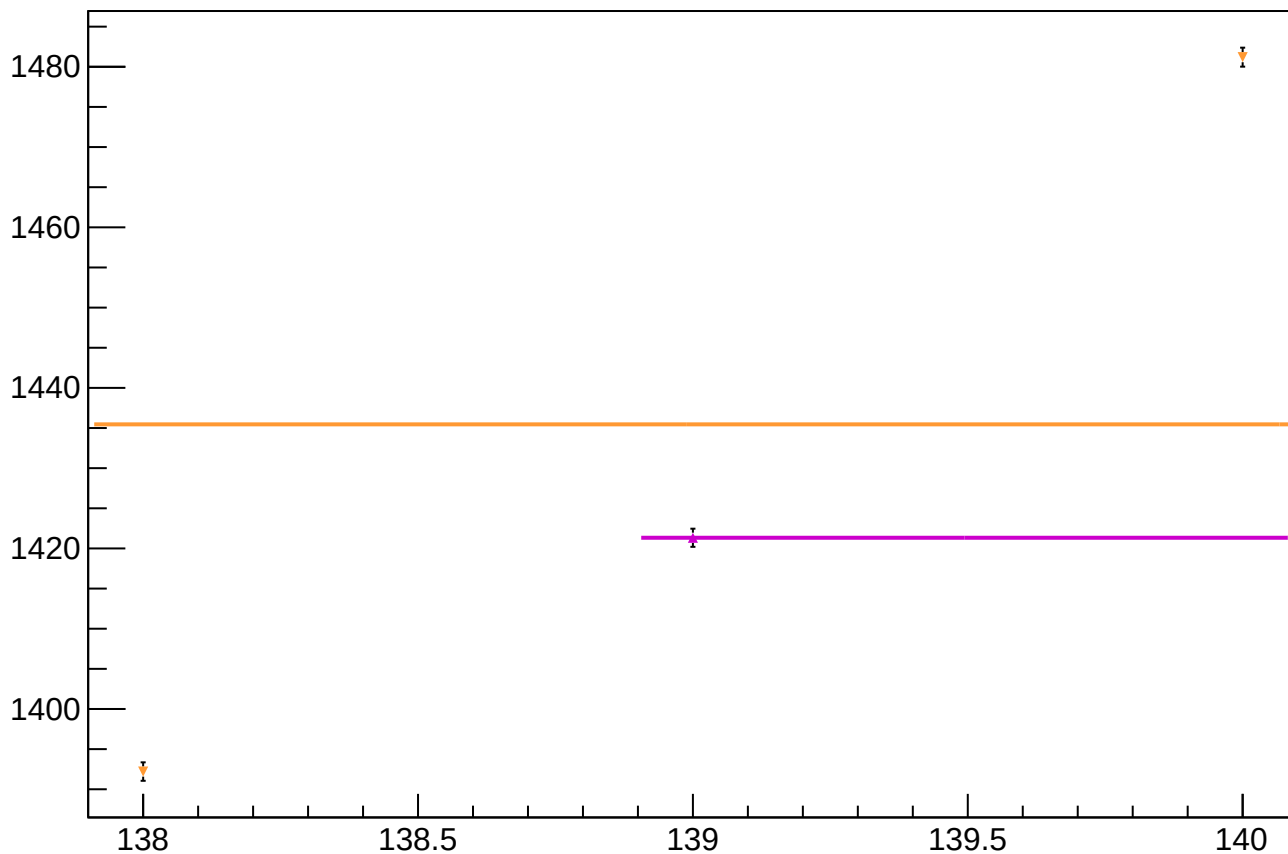
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3142.332+/-1597.844  $\chi^2/\text{NDF}$ : 0.0/0

Out: 143.054+/-1165.837  $\chi^2/\text{NDF}$ : 0.0/1

All: -998.330+/-941.797  $\chi^2/\text{NDF}$ : 2.8/2

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: 1435.457+/-0.824  $\chi^2/\text{NDF}$ :2911.2/1

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

Left In: 1421.330+/-1.130  $\chi^2/\text{NDF}$ :0.0/0

Left: 1430.549+/-0.666  $\chi^2/\text{NDF}$ : 3013.2/2

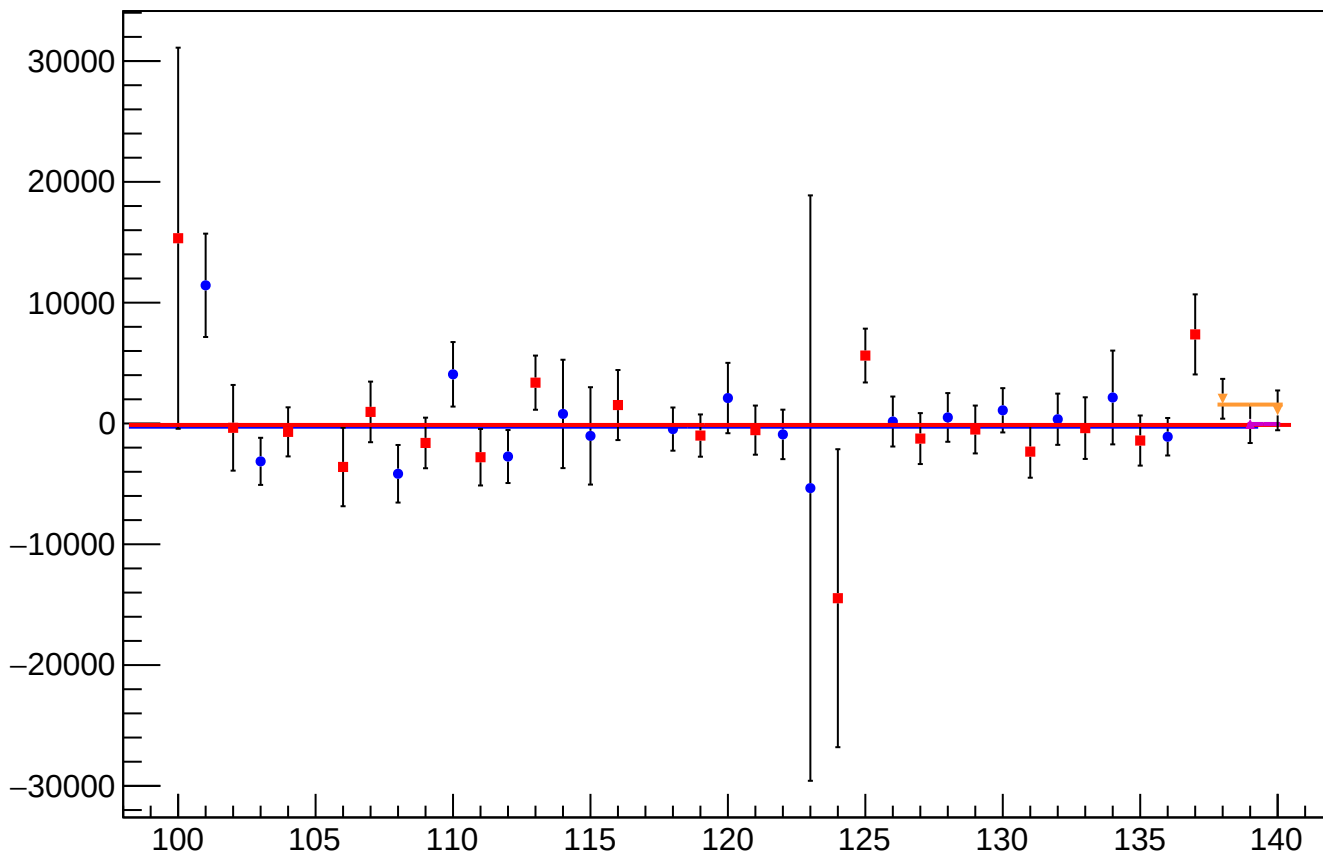
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1421.330+/-1.130  $\chi^2/\text{NDF}$ :0.0/0

Out: 1435.457+/-0.824  $\chi^2/\text{NDF}$ :2911.2/1

All: 1430.549+/-0.666  $\chi^2/\text{NDF}$ : 3013.2/2

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



Right In: -266.664+/-567.455  $\chi^2/\text{NDF}$ : 18.6/16

Left Out: 1564.338+/-1164.935  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: -122.072+/-554.216  $\chi^2/\text{NDF}$ : 22.1/18

Left In: -40.850+/-1578.057  $\chi^2/\text{NDF}$ : 0.0/0

Left: 998.139+/-937.226  $\chi^2/\text{NDF}$ : 0.8/2

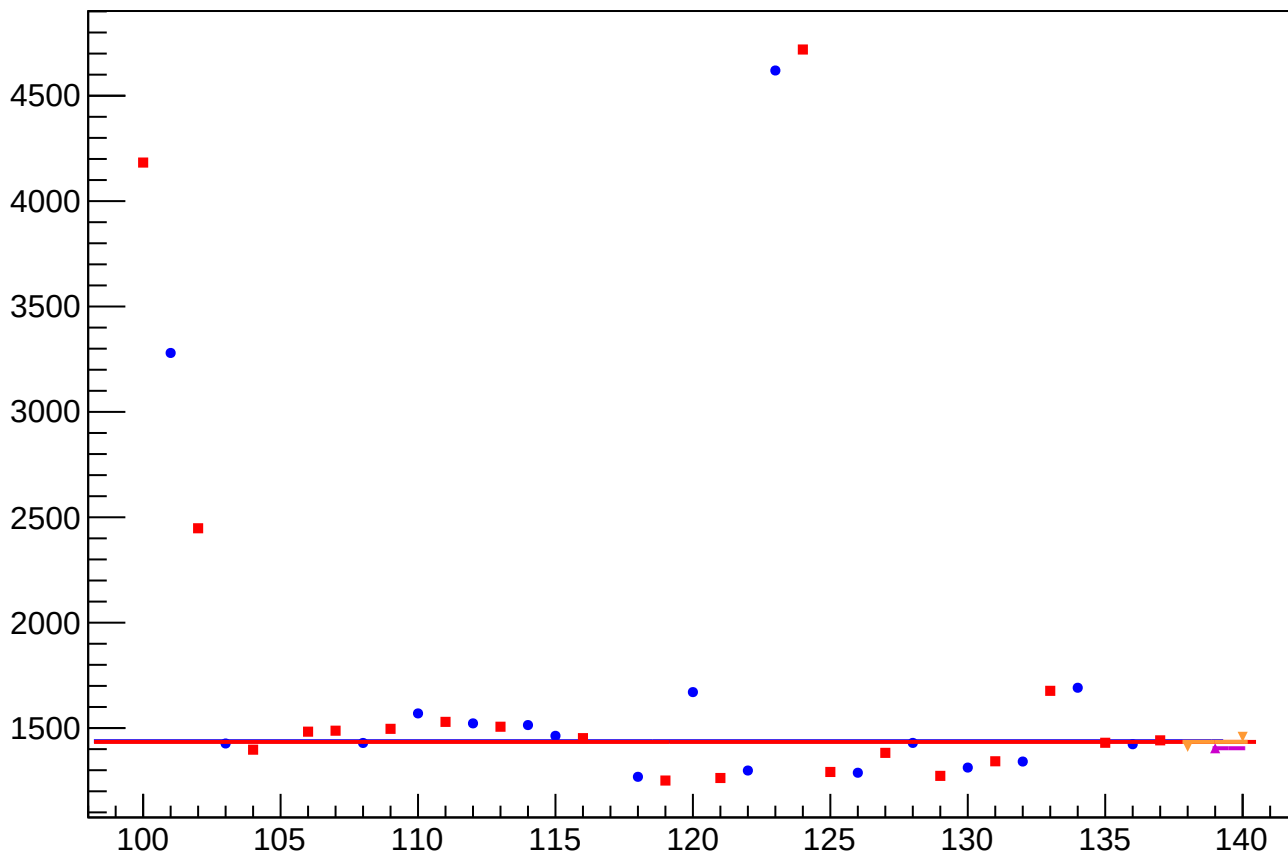
Right: -192.662+/-396.488  $\chi^2/\text{NDF}$ : 40.8/35

In: -240.809+/-533.981  $\chi^2/\text{NDF}$ : 18.6/17

Out: 189.178+/-500.466  $\chi^2/\text{NDF}$ : 24.0/20

All: -11.899+/-365.157  $\chi^2/\text{NDF}$ : 43.0/38

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



Right In: 1437.576+/-0.401  $\chi^2/\text{NDF}$ : 486465.9/16

Left Out: 1434.617+/-0.824  $\chi^2/\text{NDF}$ : 836.3/1

Right Out: 1434.272+/-0.392  $\chi^2/\text{NDF}$ : 455611.8/18

Left In: 1404.216+/-1.116  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1423.894+/-0.663  $\chi^2/\text{NDF}$ : 1316.7/2

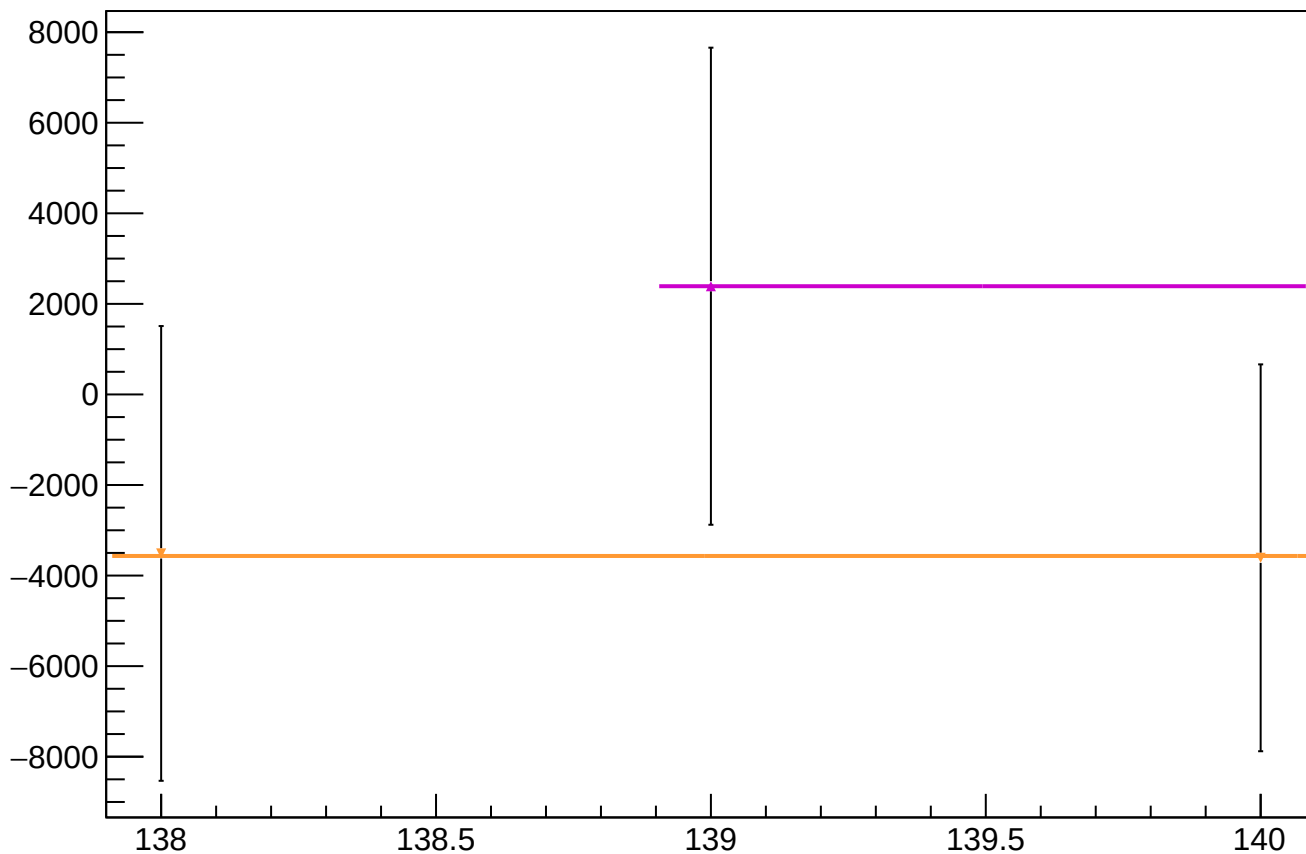
Right: 1435.884+/-0.280  $\chi^2/\text{NDF}$ : 942112.4/35

In: 1433.757+/-0.378  $\chi^2/\text{NDF}$ : 487257.3/17

Out: 1434.336+/-0.354  $\chi^2/\text{NDF}$ : 456448.3/20

All: 1434.065+/-0.258  $\chi^2/\text{NDF}$ : 943706.8/38

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



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

Left Out: -3567.181 $\pm$ 3253.657  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 2390.046 $\pm$ 5267.930  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1922.183 $\pm$ 2768.220  $\chi^2/\text{NDF}$ : 0.9/2

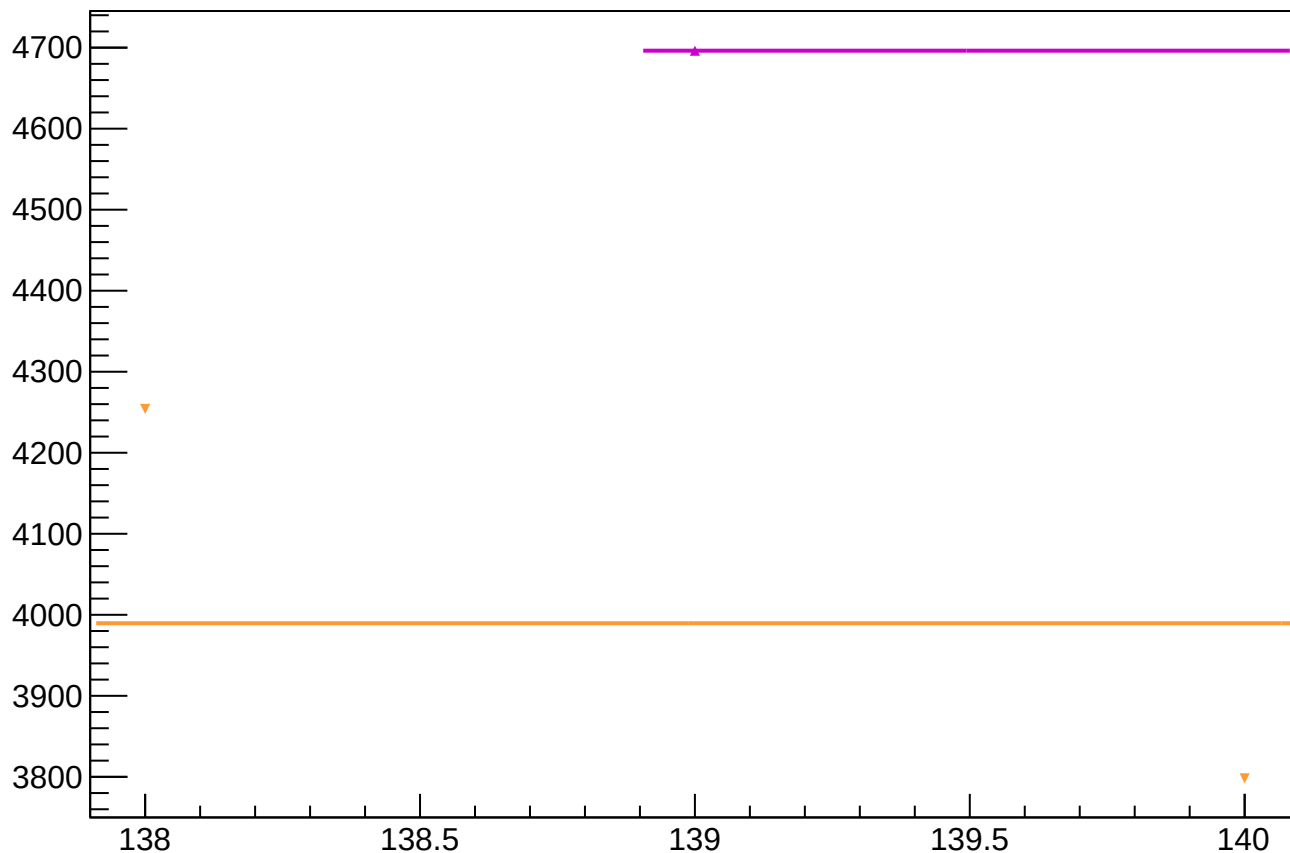
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2390.046 $\pm$ 5267.930  $\chi^2/\text{NDF}$ : 0.0/0

Out: -3567.181 $\pm$ 3253.657  $\chi^2/\text{NDF}$ : 0.0/1

All: -1922.183 $\pm$ 2768.220  $\chi^2/\text{NDF}$ : 0.9/2

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: 3989.584+/-2.301  $\chi^2/\text{NDF}$ :9567.3/1

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

Left In: 4696.244+/-3.725  $\chi^2/\text{NDF}$ :0.0/0

Left: 4184.717+/-1.957  $\chi^2/\text{NDF}$ : 35618.6/2

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

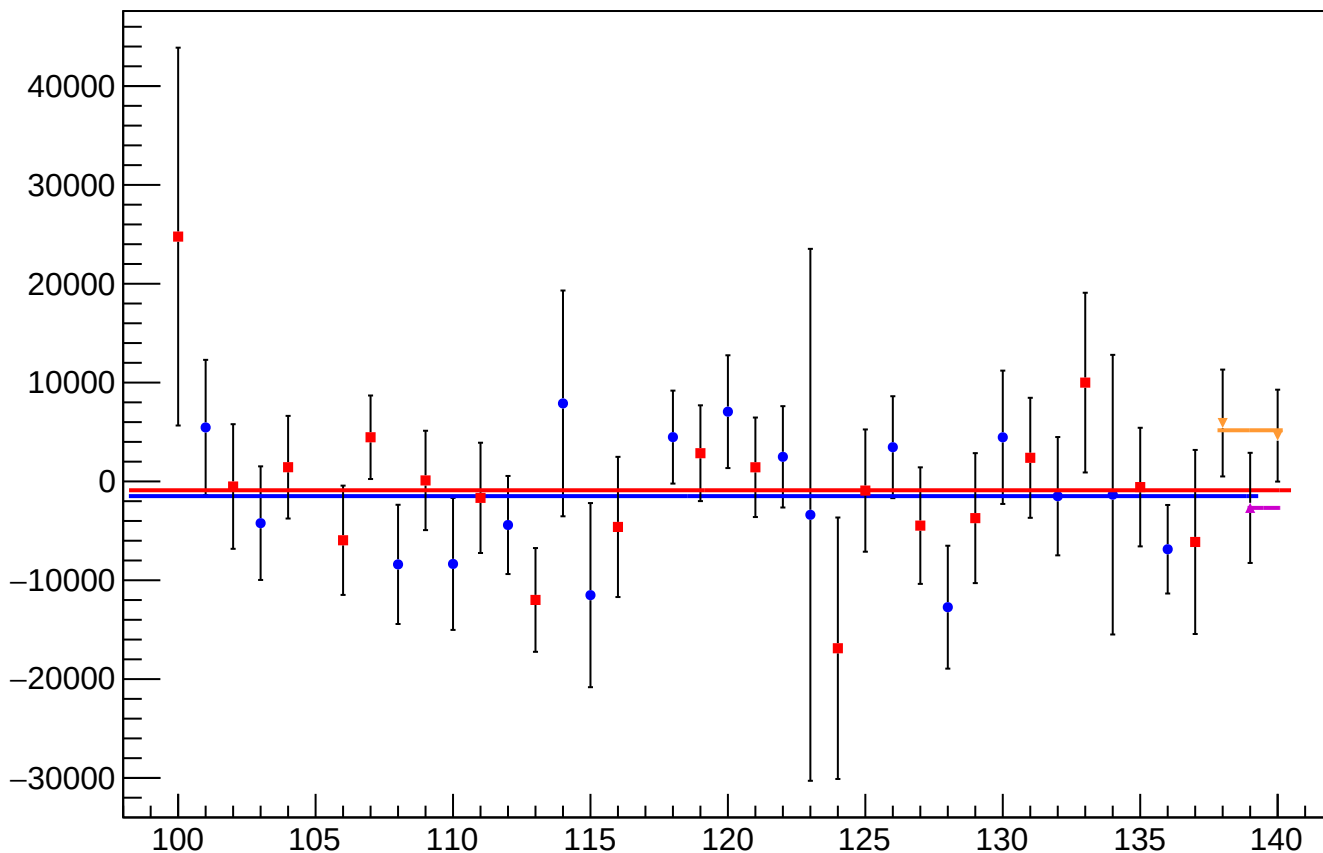
In: 4696.244+/-3.725  $\chi^2/\text{NDF}$ :0.0/0

Out: 3989.584+/-2.301  $\chi^2/\text{NDF}$ :9567.3/1

All: 4184.717+/-1.957  $\chi^2/\text{NDF}$ : 35618.6/2



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



Right In:  $-1487.038 \pm 1499.116$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $5175.069 \pm 3524.577$   $\chi^2/\text{NDF}$ : 0.0/1

Right Out:  $-894.160 \pm 1378.910$   $\chi^2/\text{NDF}$ : 14.1/18

Left In:  $-2677.652 \pm 5571.653$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $2930.748 \pm 2978.629$   $\chi^2/\text{NDF}$ : 1.5/2

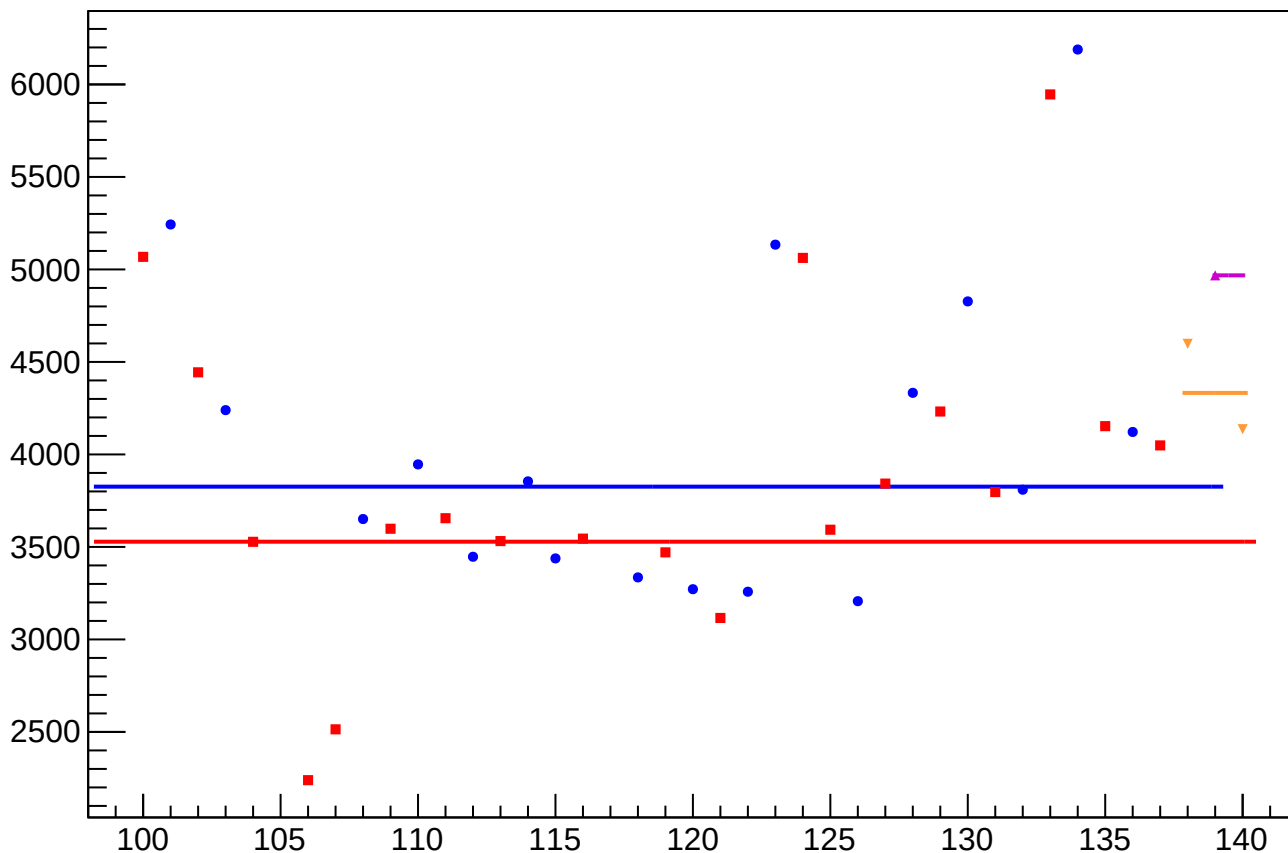
Right:  $-1165.879 \pm 1014.876$   $\chi^2/\text{NDF}$ : 30.9/35

In:  $-1567.412 \pm 1447.632$   $\chi^2/\text{NDF}$ : 16.7/17

Out:  $-88.522 \pm 1284.133$   $\chi^2/\text{NDF}$ : 16.7/20

All:  $-739.770 \pm 960.646$   $\chi^2/\text{NDF}$ : 34.0/38

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: 4332.586+/-2.492  $\chi^2/\text{NDF}$ : 8385.1/1

Right Out: 3528.289+/-0.966  $\chi^2/\text{NDF}$ : 555414.1/18

Left In: 4968.039+/-3.940  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4514.200+/-2.106  $\chi^2/\text{NDF}$ : 26965.2/2

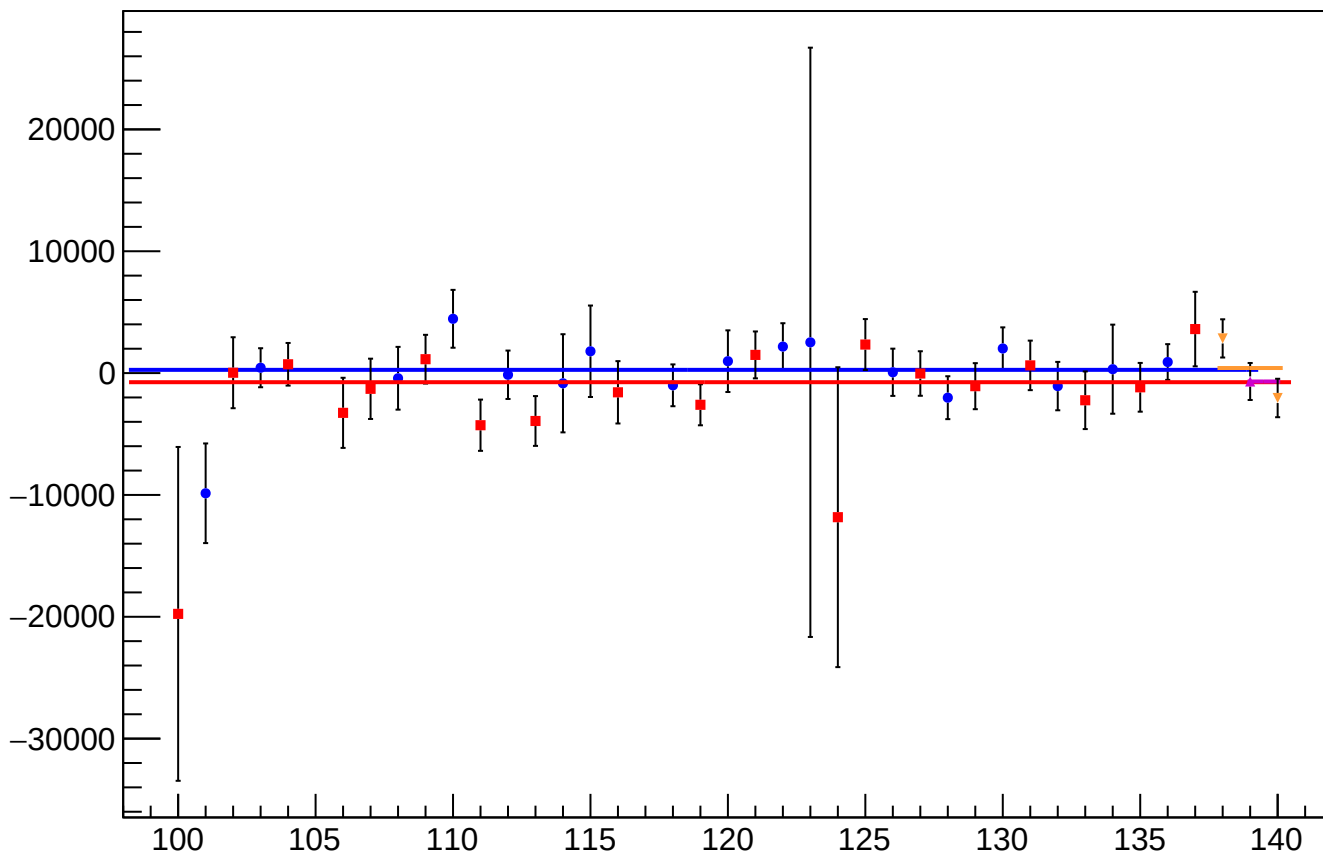
Right: 3663.316+/-0.714  $\chi^2/\text{NDF}$ : 932858.8/35

In: 3902.946+/-1.024  $\chi^2/\text{NDF}$ : 412781.5/17

Out: 3633.373+/-0.901  $\chi^2/\text{NDF}$ : 654339.6/20

All: 3751.034+/-0.676  $\chi^2/\text{NDF}$ : 1106205.6/38

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: 416.233 $\pm$ 1112.310  $\chi^2$ /NDF:4.8/1

Right Out: -747.421 $\pm$ 511.778  $\chi^2$ /NDF: 18.4/18

Left In: -688.424 $\pm$ 1518.156  $\chi^2$ /NDF:0.0/0

Left: 30.376 $\pm$ 897.255  $\chi^2$ /NDF: 5.2/2

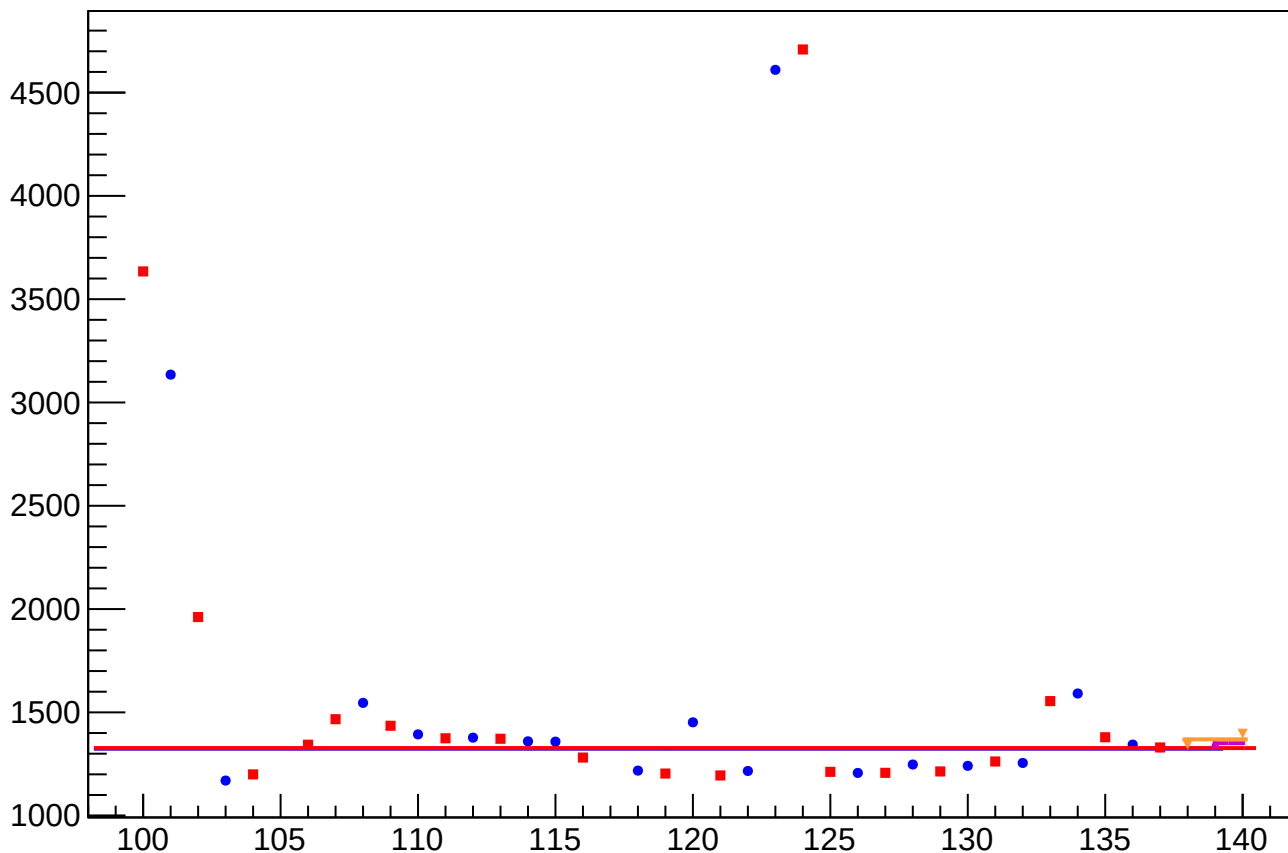
Right: -252.218 $\pm$ 365.966  $\chi^2$ /NDF: 35.0/35

In: 164.552 $\pm$ 494.927  $\chi^2$ /NDF:15.0/17

Out: -544.119 $\pm$ 464.927  $\chi^2$ /NDF:24.2/20

All: -211.911 $\pm$ 338.863  $\chi^2$ /NDF: 40.2/38

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



Right In: 1324.281+/-0.370  $\chi^2/\text{NDF}$ : 514089.5/16

Left Out: 1369.409+/-0.787  $\chi^2/\text{NDF}$ : 1173.9/1

Right Out: 1326.975+/-0.362  $\chi^2/\text{NDF}$ : 392077.2/18

Left In: 1350.811+/-1.073  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1362.912+/-0.634  $\chi^2/\text{NDF}$ : 1369.2/2

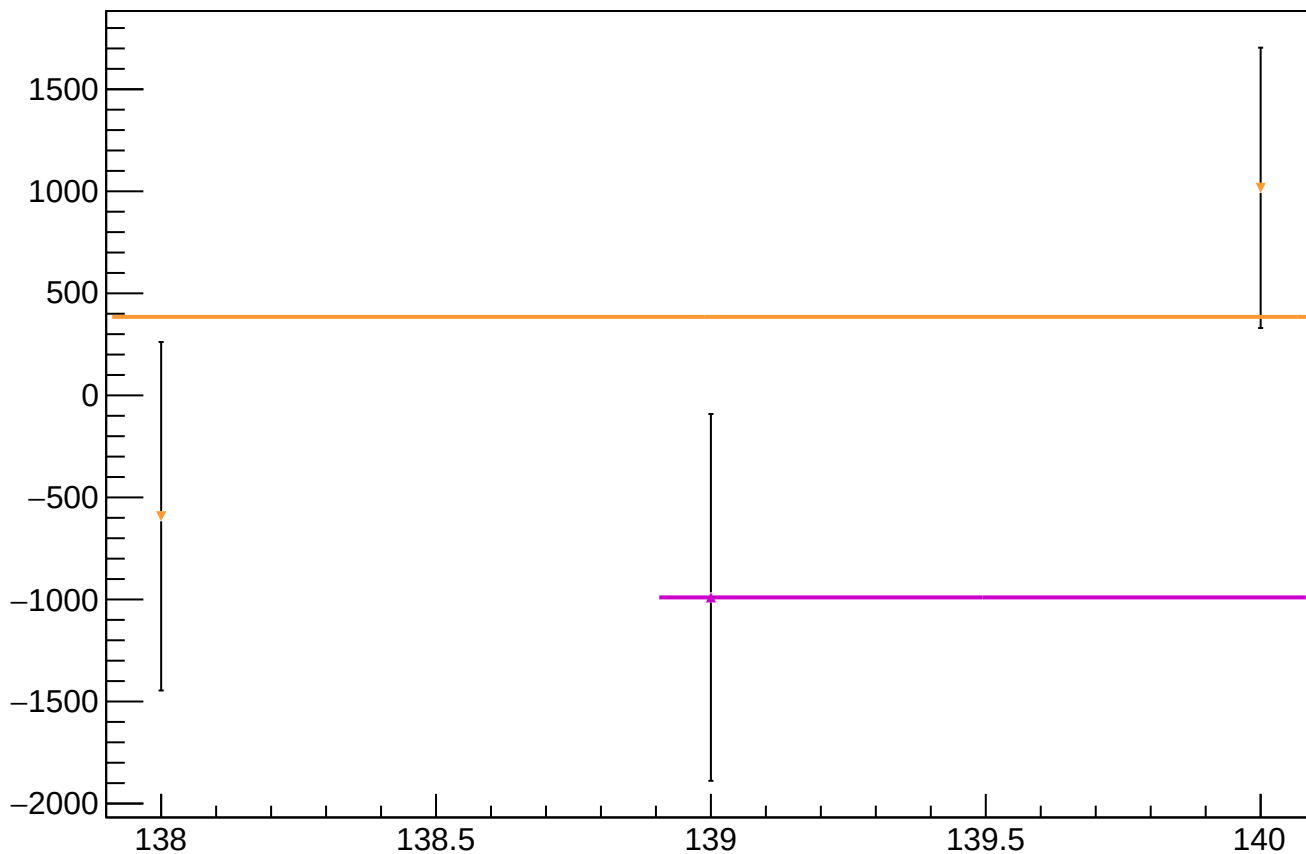
Right: 1325.659+/-0.259  $\chi^2/\text{NDF}$ : 906193.7/35

In: 1327.101+/-0.350  $\chi^2/\text{NDF}$ : 514635.3/17

Out: 1334.388+/-0.329  $\chi^2/\text{NDF}$ : 395653.3/20

All: 1330.972+/-0.240  $\chi^2/\text{NDF}$ : 910518.9/38

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: 384.645+/-535.192  $\chi^2/\text{NDF}$ : 2.2/1

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

Left In: -989.894+/-898.643  $\chi^2/\text{NDF}$ : 0.0/0

Left: 24.760+/-459.823  $\chi^2/\text{NDF}$ : 3.9/2

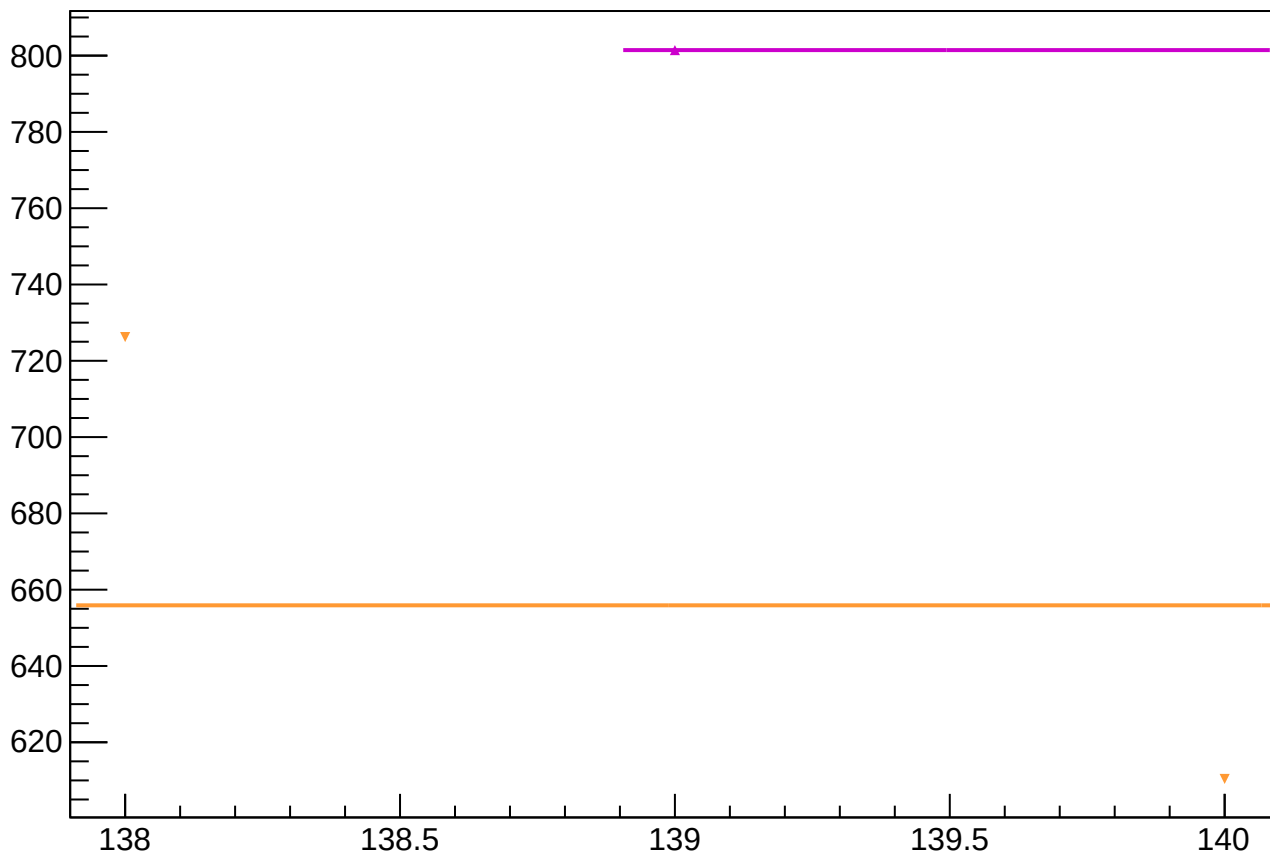
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -989.894+/-898.643  $\chi^2/\text{NDF}$ : 0.0/0

Out: 384.645+/-535.192  $\chi^2/\text{NDF}$ : 2.2/1

All: 24.760+/-459.823  $\chi^2/\text{NDF}$ : 3.9/2

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: 655.900+/-0.378  $\chi^2/\text{NDF}$ :22347.3/1

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

Left In: 801.447+/-0.635  $\chi^2/\text{NDF}$ :0.0/0

Left: 694.007+/-0.325  $\chi^2/\text{NDF}$ : 61075.0/2

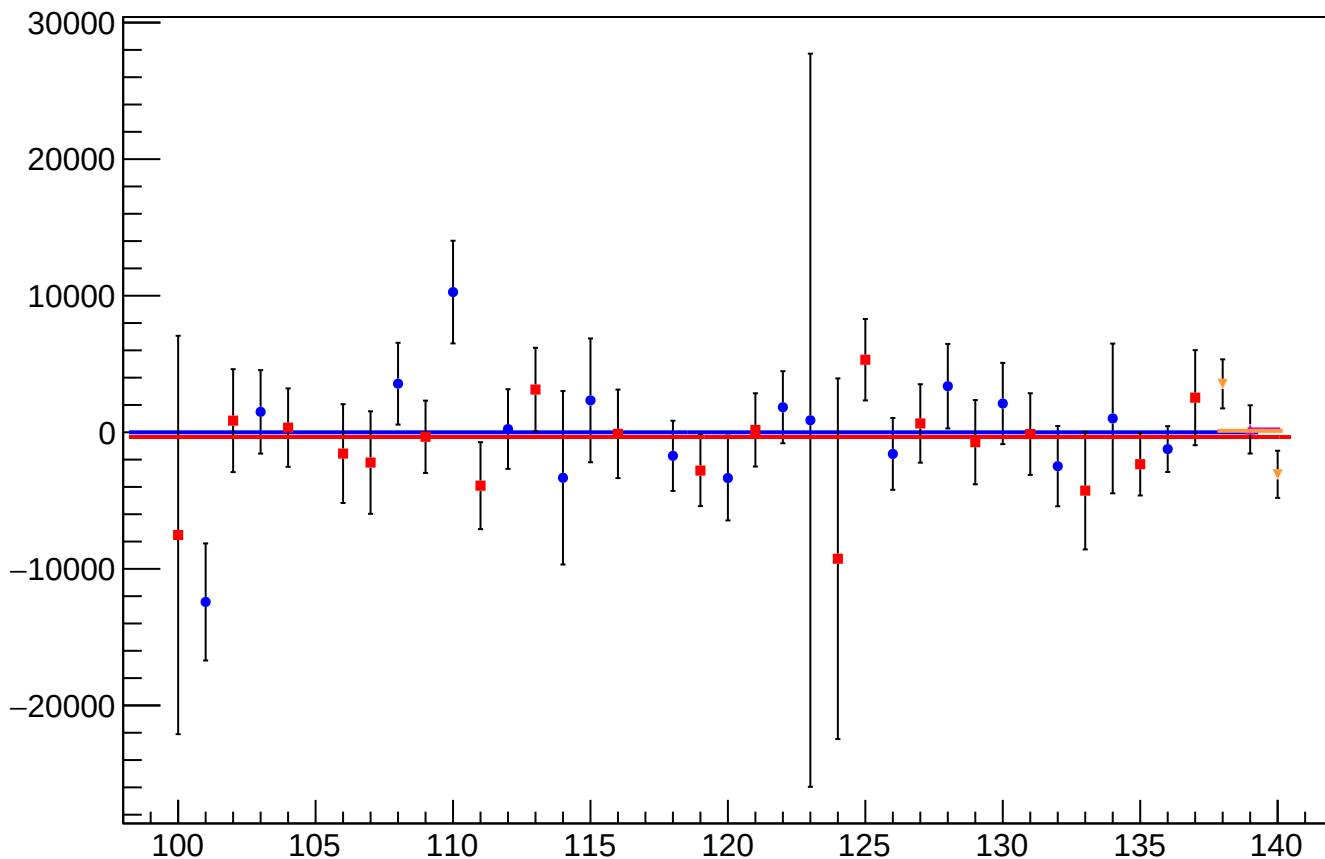
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 801.447+/-0.635  $\chi^2/\text{NDF}$ :0.0/0

Out: 655.900+/-0.378  $\chi^2/\text{NDF}$ :22347.3/1

All: 694.007+/-0.325  $\chi^2/\text{NDF}$ : 61075.0/2

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:  $106.188 \pm 1244.254$   $\chi^2/\text{NDF}$ : 7.1/1

Right Out:  $-345.148 \pm 733.723$   $\chi^2/\text{NDF}$ : 10.7/18

Left In:  $210.402 \pm 1766.425$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $140.748 \pm 1017.229$   $\chi^2/\text{NDF}$ : 7.1/2

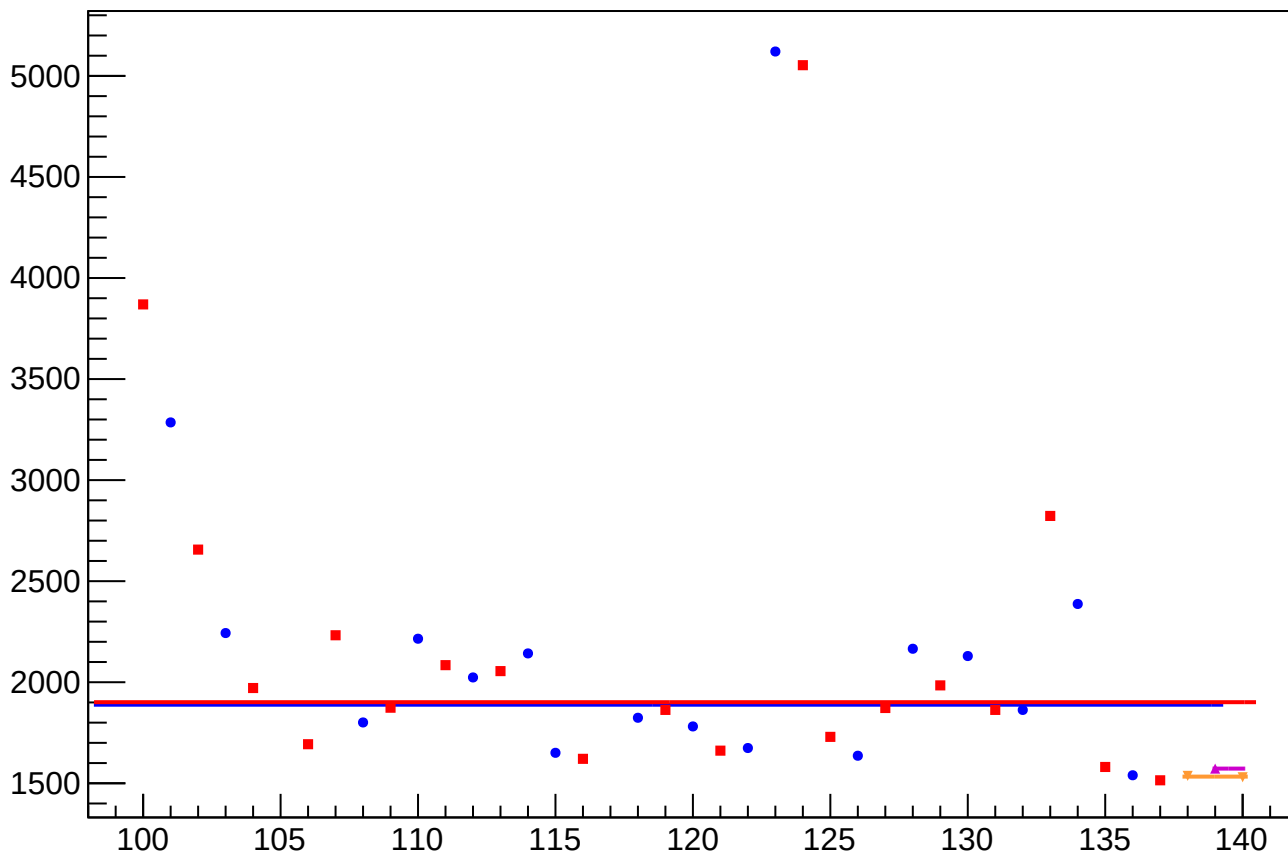
Right:  $-176.305 \pm 522.783$   $\chi^2/\text{NDF}$ : 34.3/35

In:  $29.907 \pm 686.493$   $\chi^2/\text{NDF}$ : 23.5/17

Out:  $-228.697 \pm 632.019$   $\chi^2/\text{NDF}$ : 17.9/20

All:  $-110.061 \pm 464.972$   $\chi^2/\text{NDF}$ : 41.5/38

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



Right In: 1888.810+/-0.527  $\chi^2/\text{NDF}$ : 465842.8/16

Left Out: 1533.010+/-0.880  $\chi^2/\text{NDF}$ :15.1/1

Right Out: 1901.248+/-0.519  $\chi^2/\text{NDF}$ : 461424.3/18

Left In: 1572.618+/-1.249  $\chi^2/\text{NDF}$ :0.0/0

Left: 1546.145+/-0.719  $\chi^2/\text{NDF}$ : 687.2/2

Right: 1895.125+/-0.370  $\chi^2/\text{NDF}$ : 927550.0/35

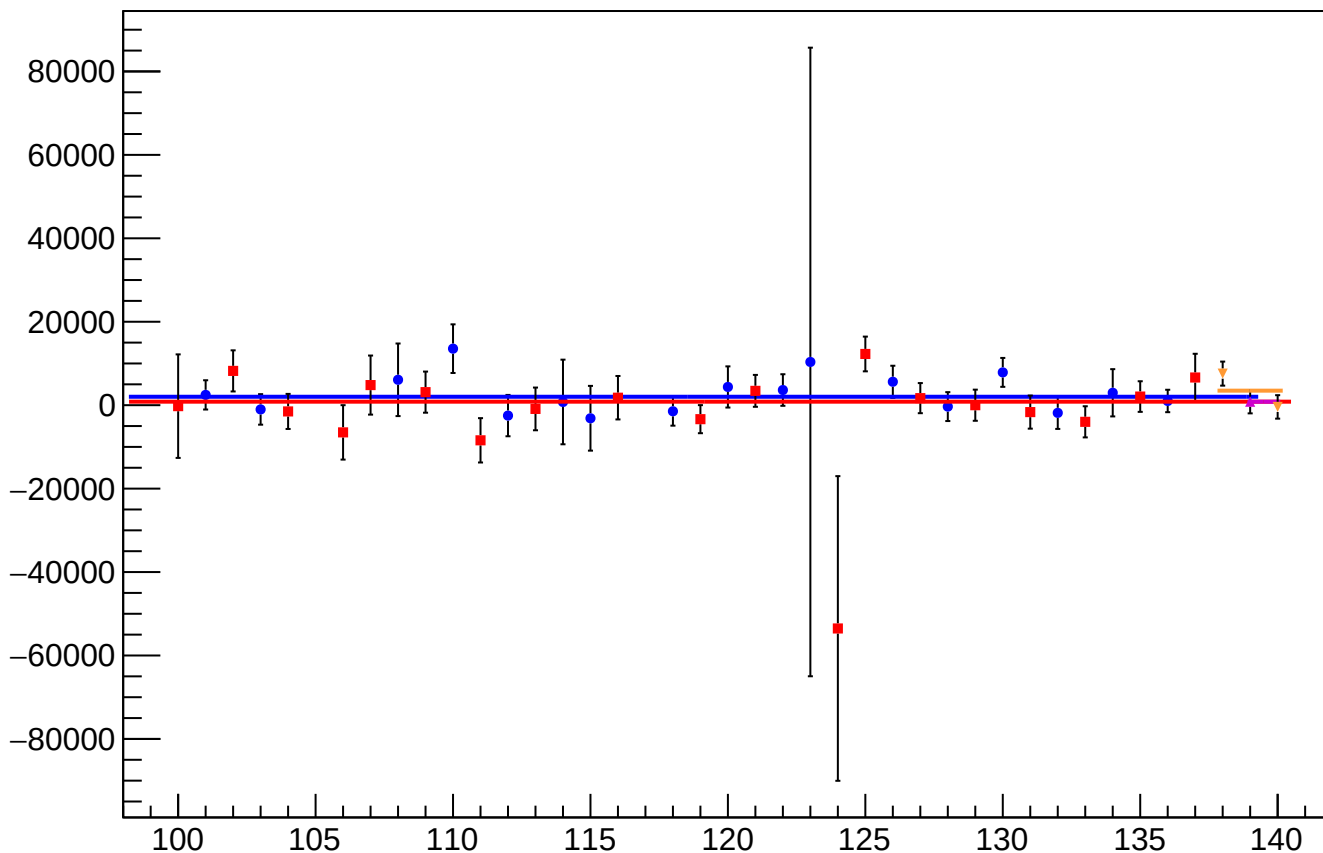
In: 1841.054+/-0.485  $\chi^2/\text{NDF}$ :520246.8/17

Out: 1806.240+/-0.447  $\chi^2/\text{NDF}$ :591417.2/20

All: 1822.211+/-0.329  $\chi^2/\text{NDF}$ : 1114448.1/38



# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2021.418+/-1035.639  $\chi^2$ /NDF: 12.9/16

Left Out: 3480.839+/-2013.161  $\chi^2$ /NDF:3.9/1

Right Out: 842.423+/-1051.980  $\chi^2$ /NDF: 22.7/18

Left In: 828.205+/-2789.401  $\chi^2$ /NDF:0.0/0

Left: 2572.353+/-1632.418  $\chi^2$ /NDF: 4.5/2

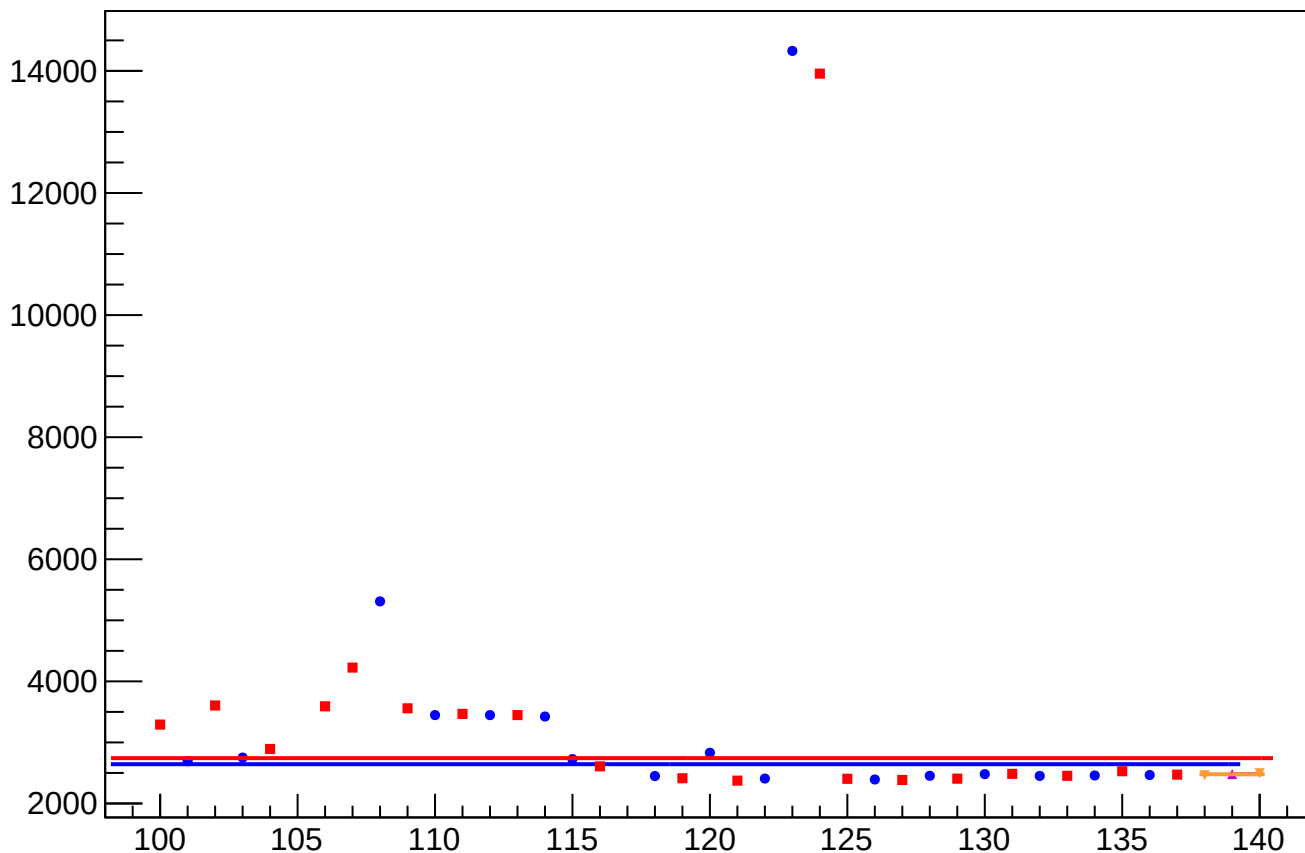
Right: 1441.149+/-738.017  $\chi^2$ /NDF: 36.2/35

In: 1876.864+/-970.882  $\chi^2$ /NDF:13.1/17

Out: 1408.340+/-932.359  $\chi^2$ /NDF:27.9/20

All: 1633.123+/-672.484  $\chi^2$ /NDF: 41.1/38

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2643.525+/-0.732  $\chi^2/\text{NDF}$ : 392705.3/16

Left Out: 2478.844+/-1.424  $\chi^2/\text{NDF}$ :129.9/1

Right Out: 2742.543+/-0.744  $\chi^2/\text{NDF}$ : 628009.1/18

Left In: 2481.735+/-1.972  $\chi^2/\text{NDF}$ :0.0/0

Left: 2479.834+/-1.154  $\chi^2/\text{NDF}$ : 131.3/2

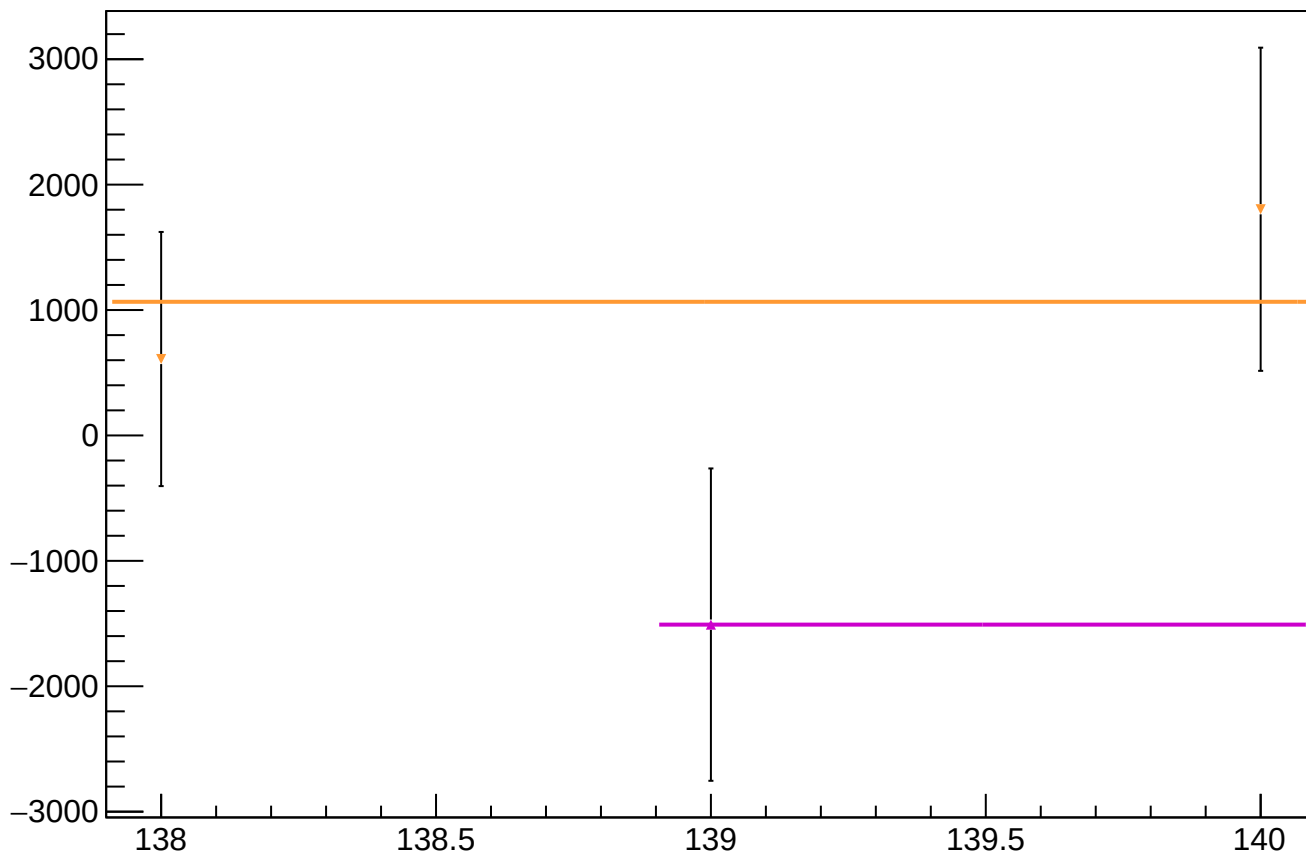
Right: 2692.259+/-0.522  $\chi^2/\text{NDF}$ : 1029712.7/35

In: 2623.925+/-0.687  $\chi^2/\text{NDF}$ :398618.6/17

Out: 2685.982+/-0.659  $\chi^2/\text{NDF}$ :655094.2/20

All: 2656.209+/-0.476  $\chi^2/\text{NDF}$ : 1057963.6/38

asym\_atl1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 1065.709+/-796.494  $\chi^2/\text{NDF}$ : 0.5/1

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

Left In: -1508.468+/-1245.344  $\chi^2/\text{NDF}$ : 0.0/0

Left: 318.408+/-670.993  $\chi^2/\text{NDF}$ : 3.6/2

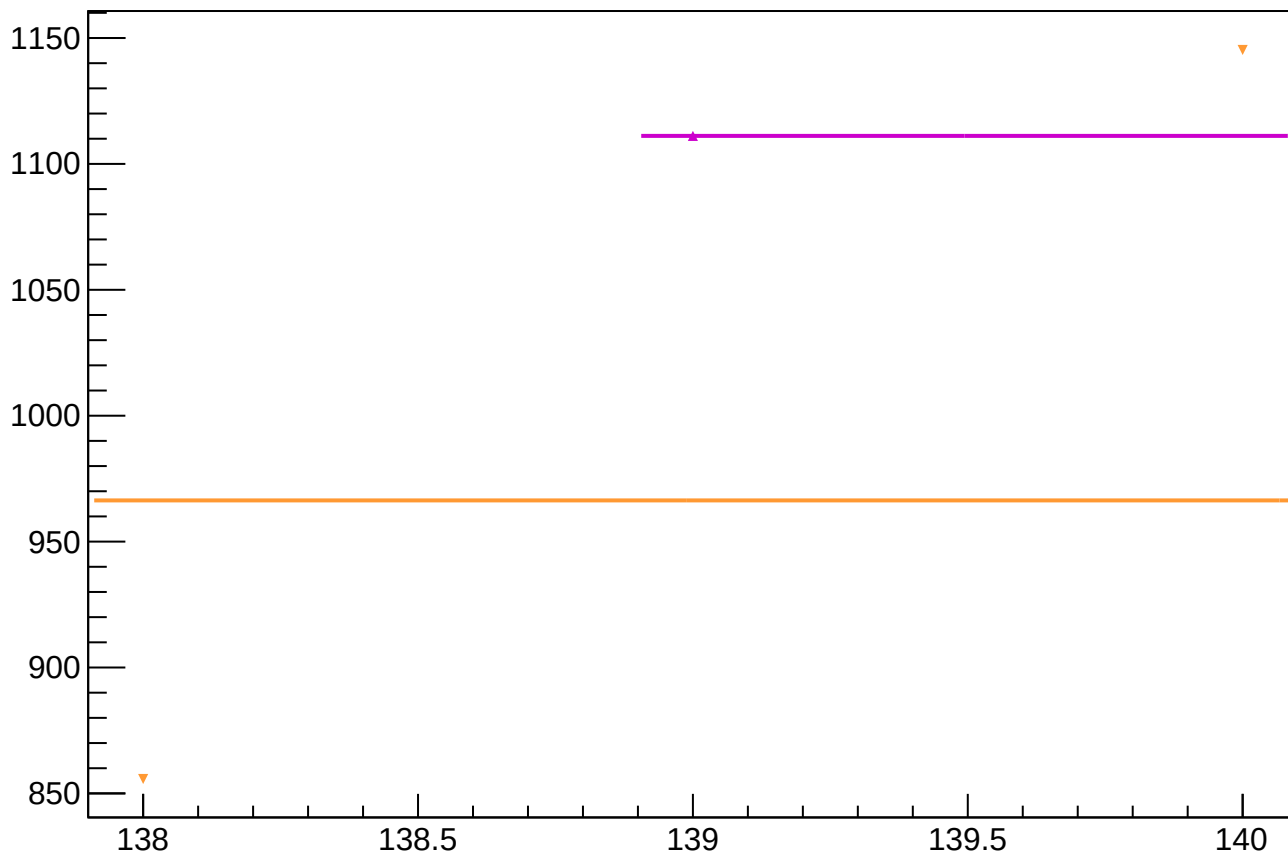
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1508.468+/-1245.344  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1065.709+/-796.494  $\chi^2/\text{NDF}$ : 0.5/1

All: 318.408+/-670.993  $\chi^2/\text{NDF}$ : 3.6/2

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 966.361+/-0.563  $\chi^2/\text{NDF}$ : 62396.0/1

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

Left In: 1111.129+/-0.881  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1008.388+/-0.474  $\chi^2/\text{NDF}$ : 81577.0/2

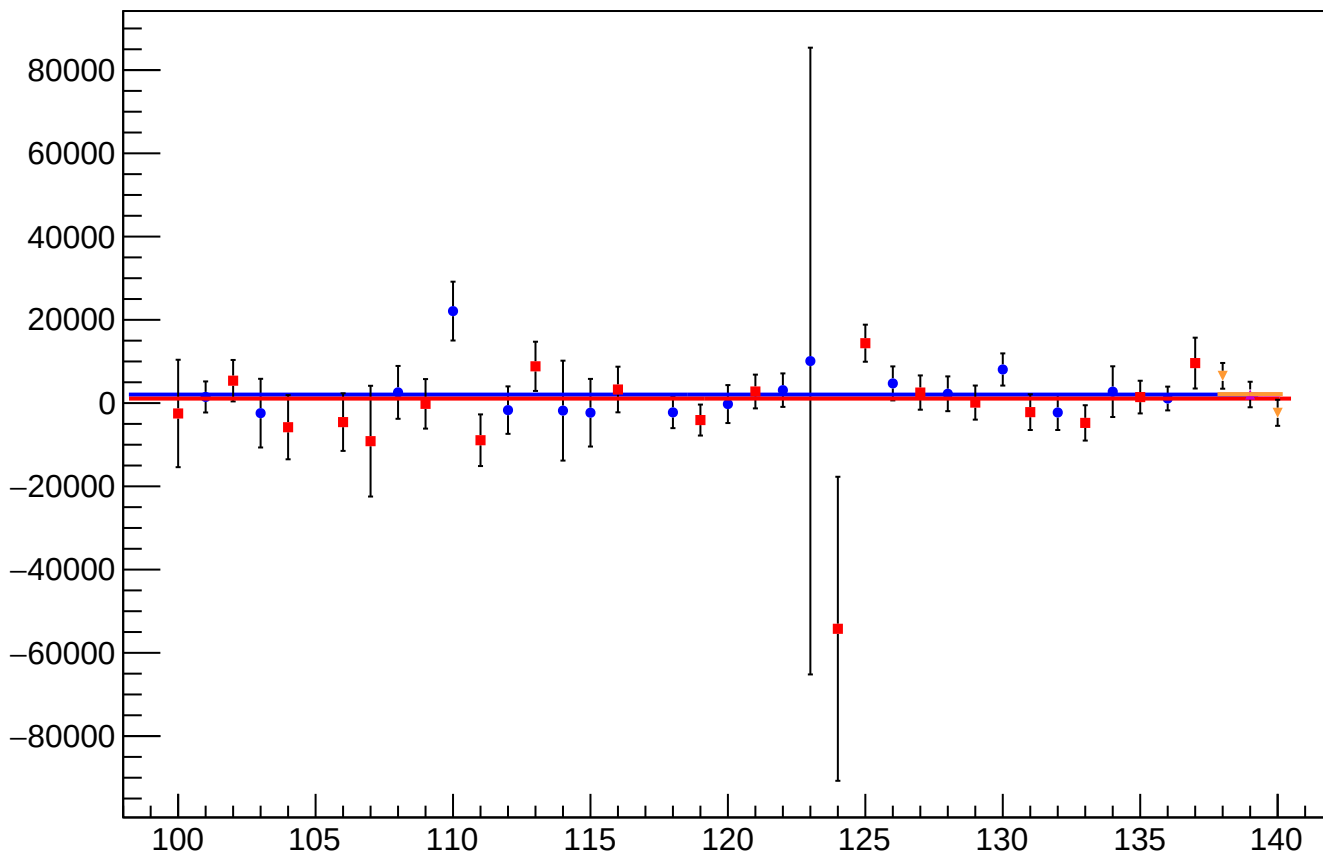
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1111.129+/-0.881  $\chi^2/\text{NDF}$ : 0.0/0

Out: 966.361+/-0.563  $\chi^2/\text{NDF}$ : 62396.0/1

All: 1008.388+/-0.474  $\chi^2/\text{NDF}$ : 81577.0/2

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2037.803+/-1151.419  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: 2163.093+/-2201.416  $\chi^2/\text{NDF}$ : 4.1/1

Right Out: 1080.125+/-1186.666  $\chi^2/\text{NDF}$ : 25.3/18

Left In: 2060.230+/-3065.548  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2128.095+/-1788.121  $\chi^2/\text{NDF}$ : 4.1/2

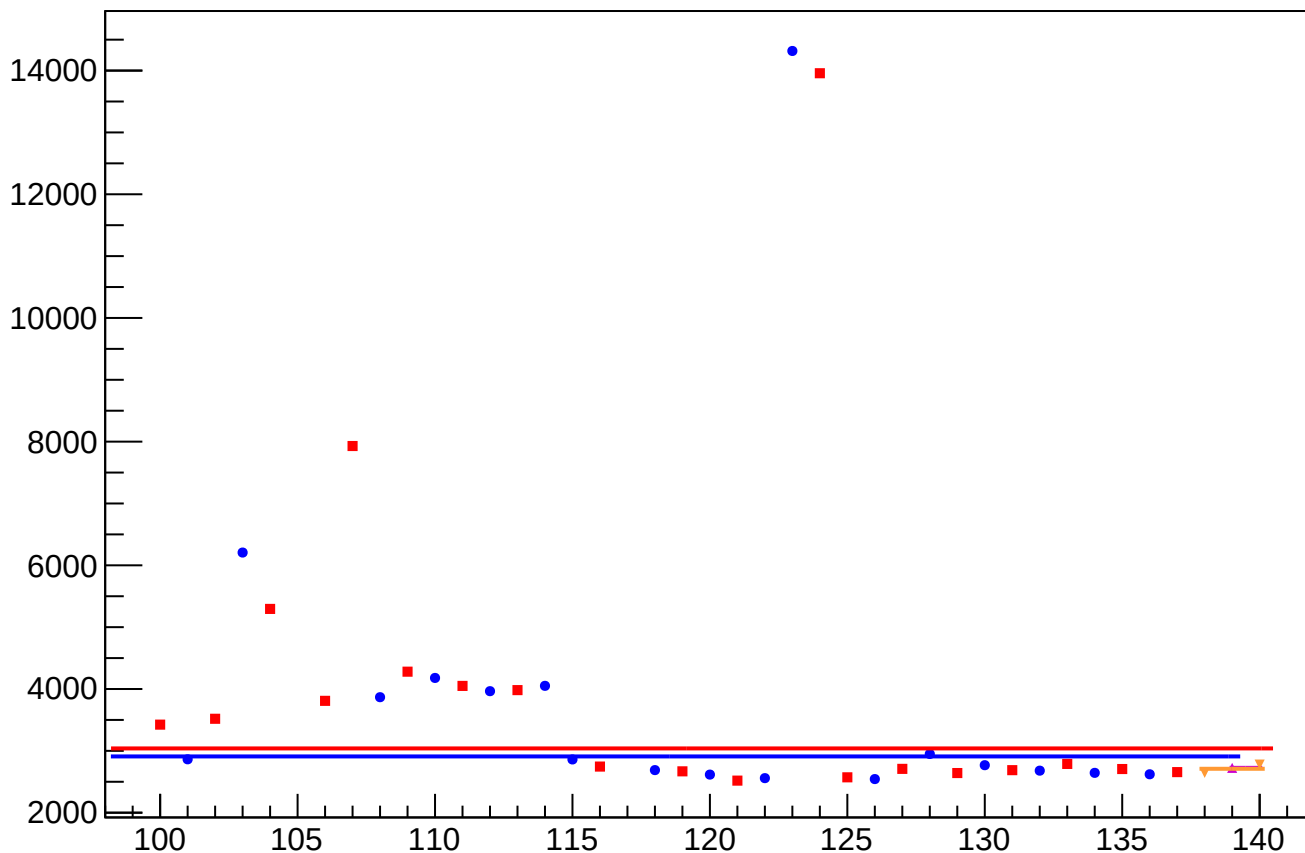
Right: 1573.398+/-826.356  $\chi^2/\text{NDF}$ : 40.5/35

In: 2040.576+/-1077.894  $\chi^2/\text{NDF}$ : 14.8/17

Out: 1323.955+/-1044.570  $\chi^2/\text{NDF}$ : 29.6/20

All: 1671.016+/-750.127  $\chi^2/\text{NDF}$ : 44.6/38

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2909.732+/-0.814  $\chi^2/\text{NDF}$ : 641894.7/16

Left Out: 2709.947+/-1.557  $\chi^2/\text{NDF}$ :1857.5/1

Right Out: 3039.118+/-0.839  $\chi^2/\text{NDF}$ : 1011306.5/18

Left In: 2725.049+/-2.168  $\chi^2/\text{NDF}$ :0.0/0

Left: 2715.085+/-1.264  $\chi^2/\text{NDF}$ : 1889.5/2

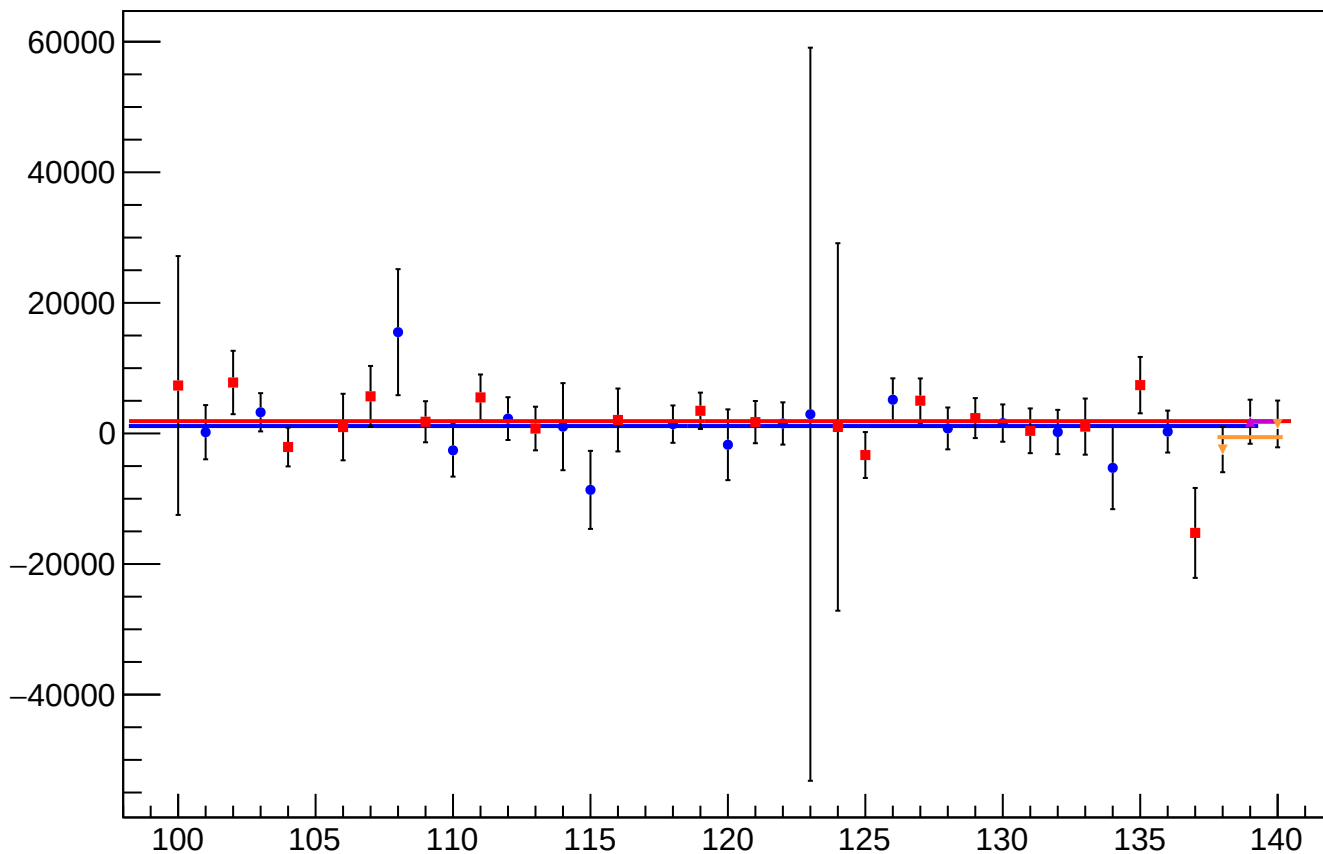
Right: 2972.475+/-0.584  $\chi^2/\text{NDF}$ : 1665447.8/35

In: 2886.899+/-0.762  $\chi^2/\text{NDF}$ :648256.2/17

Out: 2965.005+/-0.739  $\chi^2/\text{NDF}$ :1047812.7/20

All: 2927.178+/-0.530  $\chi^2/\text{NDF}$ : 1701484.4/38

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 1131.802+/-926.744  $\chi^2/\text{NDF}$ : 9.5/16

Left Out: -566.423+/-2492.490  $\chi^2/\text{NDF}$ : 0.6/1

Right Out: 1884.987+/-887.115  $\chi^2/\text{NDF}$ : 16.6/18

Left In: 1793.090+/-3376.106  $\chi^2/\text{NDF}$ : 0.0/0

Left: 265.944+/-2005.222  $\chi^2/\text{NDF}$ : 0.9/2

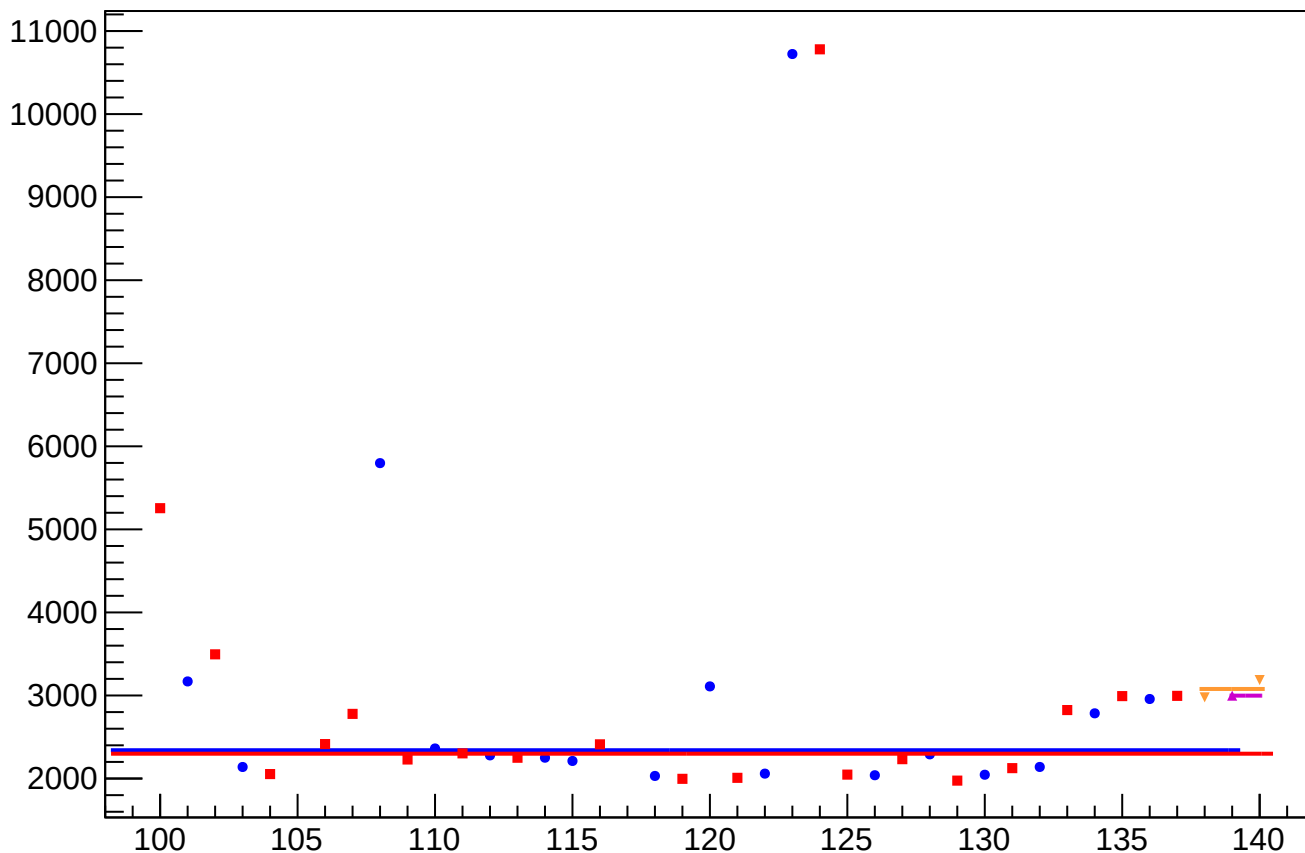
Right: 1524.842+/-640.837  $\chi^2/\text{NDF}$ : 26.4/35

In: 1178.139+/-893.686  $\chi^2/\text{NDF}$ : 9.5/17

Out: 1609.367+/-835.758  $\chi^2/\text{NDF}$ : 18.1/20

All: 1408.181+/-610.422  $\chi^2/\text{NDF}$ : 27.7/38

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2340.877+/-0.655  $\chi^2/\text{NDF}$ : 600471.2/16

Left Out: 3078.391+/-1.762  $\chi^2/\text{NDF}$ : 3485.8/1

Right Out: 2298.949+/-0.627  $\chi^2/\text{NDF}$ : 566102.7/18

Left In: 2998.054+/-2.387  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3050.050+/-1.418  $\chi^2/\text{NDF}$ : 4218.8/2

Right: 2318.982+/-0.453  $\chi^2/\text{NDF}$ : 1168711.7/35

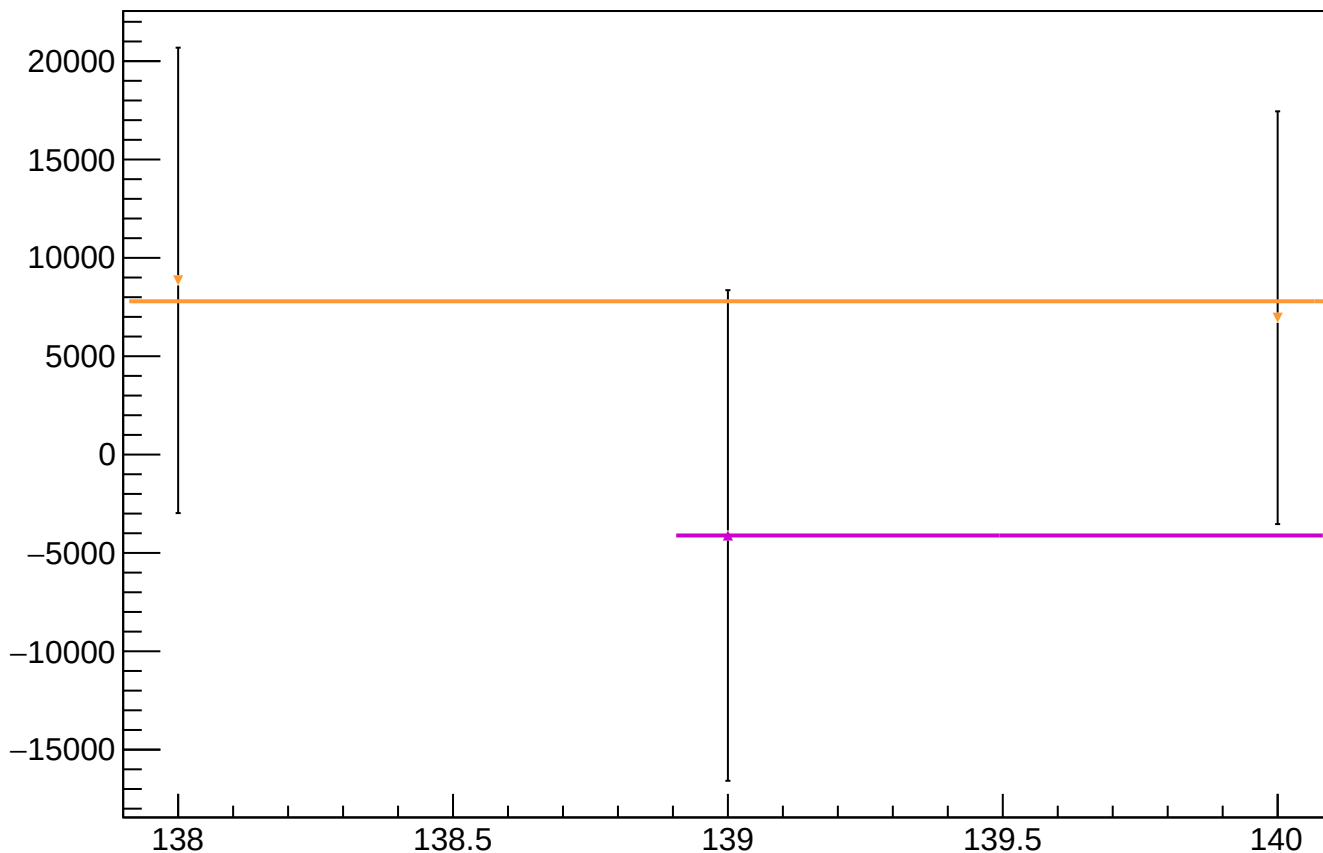
In: 2386.926+/-0.632  $\chi^2/\text{NDF}$ : 670942.5/17

Out: 2386.468+/-0.591  $\chi^2/\text{NDF}$ : 743210.4/20

All: 2386.681+/-0.431  $\chi^2/\text{NDF}$ : 1414153.1/38



asym\_atl2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 7793.105+/-7849.182  $\chi^2$ /NDF:0.0/1

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

Left In: -4112.461+/-12471.099  $\chi^2$ /NDF:0.0/0

Left: 4415.079+/-6642.954  $\chi^2$ /NDF: 0.7/2

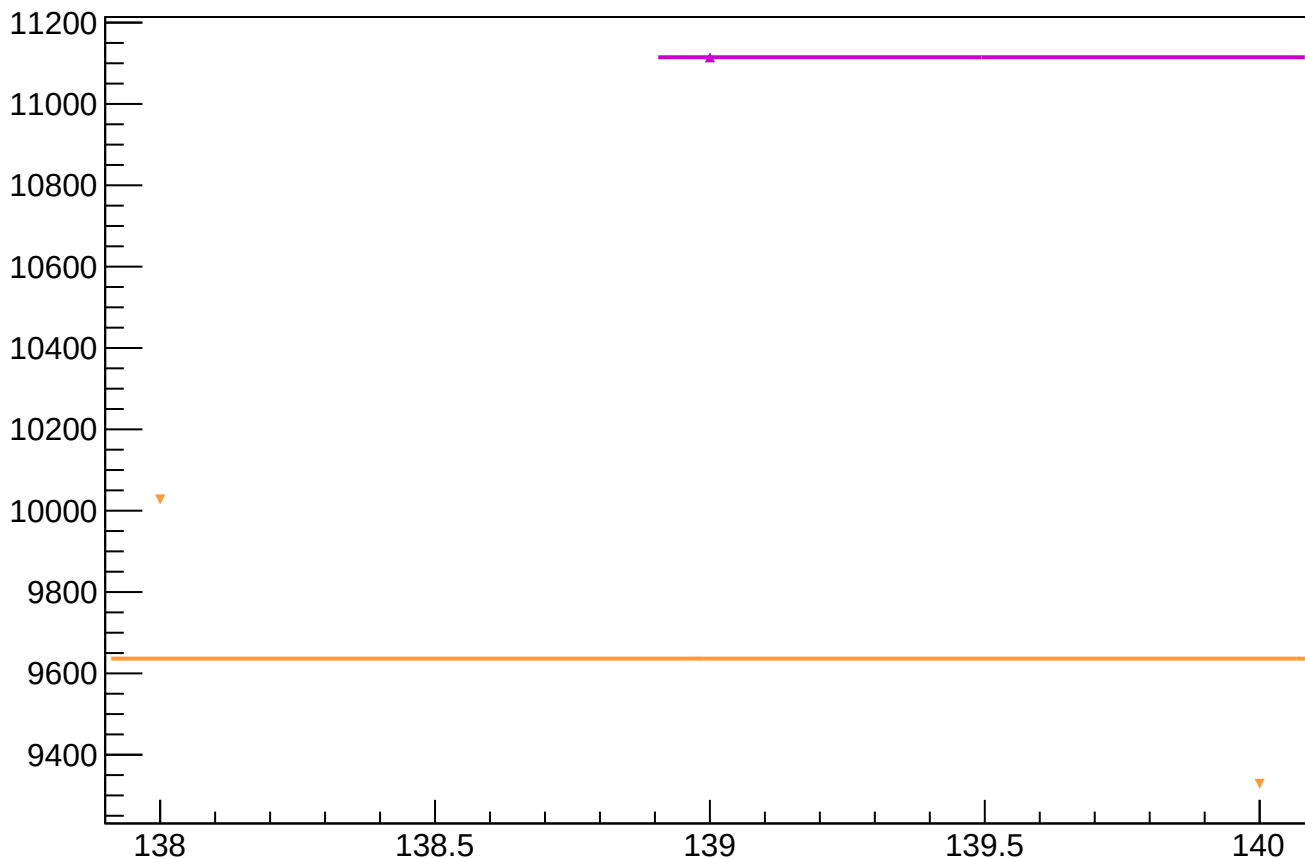
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -4112.461+/-12471.099  $\chi^2$ /NDF:0.0/0

Out: 7793.105+/-7849.182  $\chi^2$ /NDF:0.0/1

All: 4415.079+/-6642.954  $\chi^2$ /NDF: 0.7/2

# asym\_atl2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 9636.367+/-5.550  $\chi^2/\text{NDF}$ : 3908.8/1

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

Left In: 11114.785+/-8.818  $\chi^2/\text{NDF}$ : 0.0/0

Left: 10055.846+/-4.697  $\chi^2/\text{NDF}$ : 24040.9/2

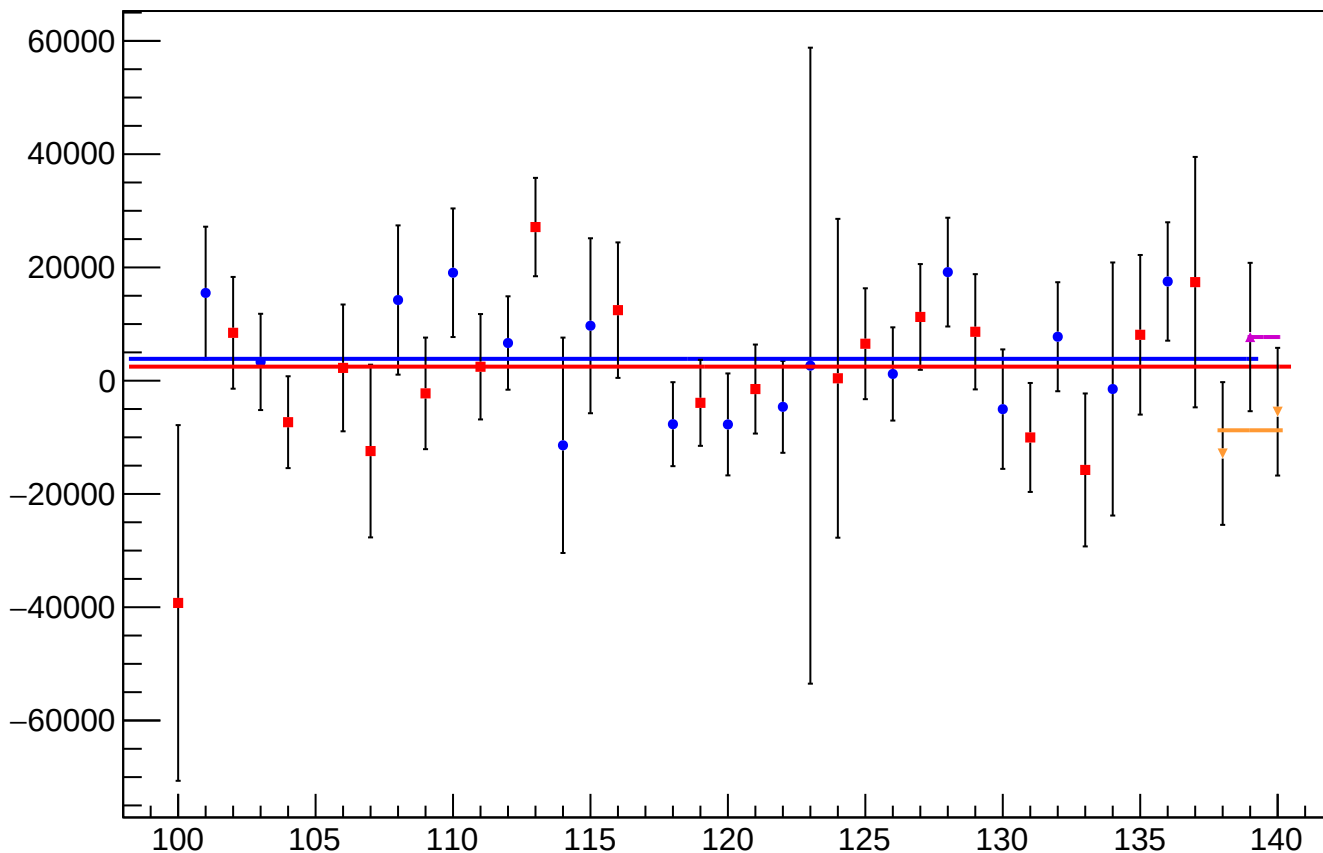
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 11114.785+/-8.818  $\chi^2/\text{NDF}$ : 0.0/0

Out: 9636.367+/-5.550  $\chi^2/\text{NDF}$ : 3908.8/1

All: 10055.846+/-4.697  $\chi^2/\text{NDF}$ : 24040.9/2

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3859.866+/-2508.782  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -8756.731+/-8402.540  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 2482.925+/-2421.310  $\chi^2/\text{NDF}$ : 20.0/18

Left In: 7712.207+/-13098.791  $\chi^2/\text{NDF}$ : 0.0/0

Left: -3955.566+/-7072.480  $\chi^2/\text{NDF}$ : 1.3/2

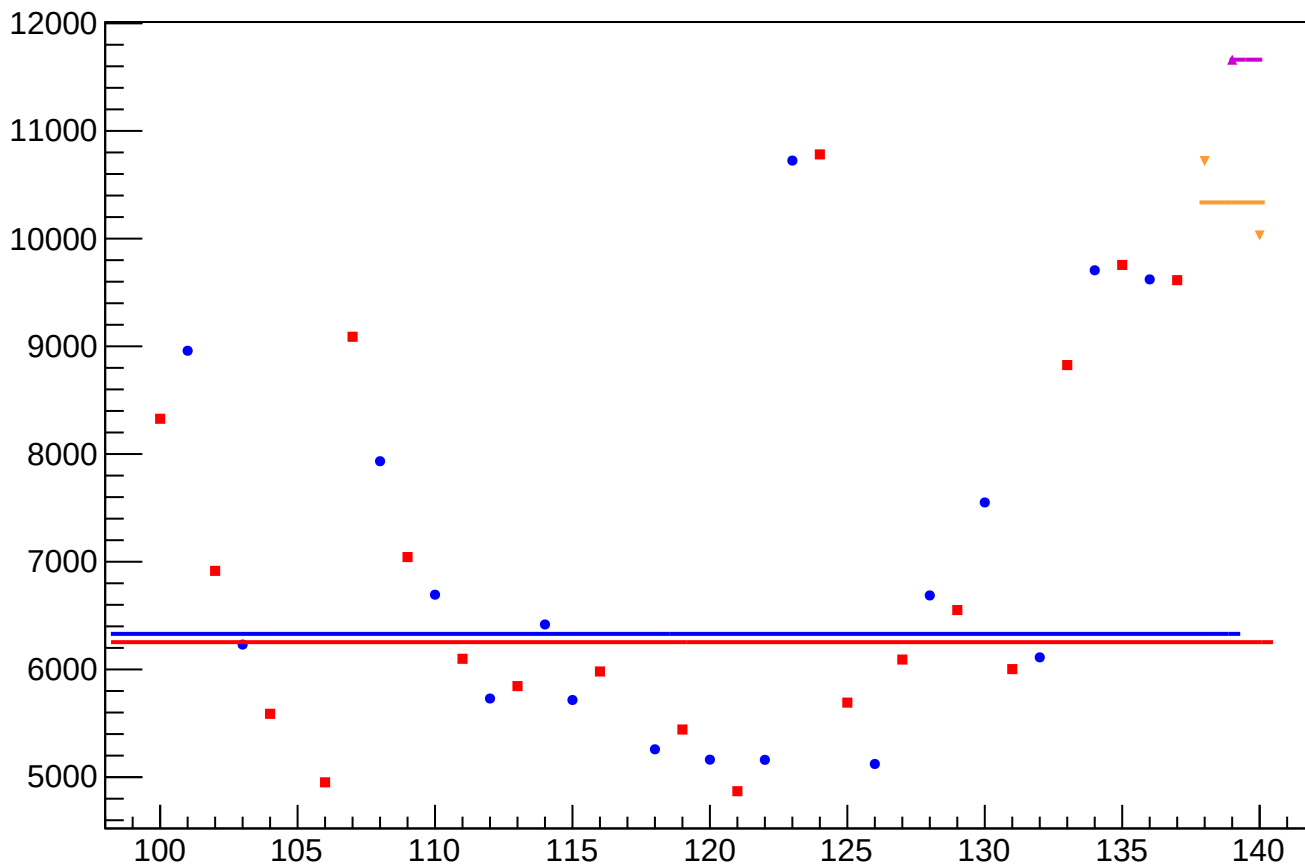
Right: 3146.972+/-1742.228  $\chi^2/\text{NDF}$ : 35.0/35

In: 3996.180+/-2463.996  $\chi^2/\text{NDF}$ : 14.8/17

Out: 1621.160+/-2326.636  $\chi^2/\text{NDF}$ : 21.9/20

All: 2740.628+/-1691.656  $\chi^2/\text{NDF}$ : 37.2/38

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6330.291+/-1.774  $\chi^2/\text{NDF}$ : 593395.6/16

Left Out: 10336.293+/-5.941  $\chi^2/\text{NDF}$ : 3335.4/1

Right Out: 6253.330+/-1.712  $\chi^2/\text{NDF}$ : 535355.5/18

Left In: 11661.474+/-9.262  $\chi^2/\text{NDF}$ : 0.0/0

Left: 10722.621+/-5.001  $\chi^2/\text{NDF}$ : 17837.8/2

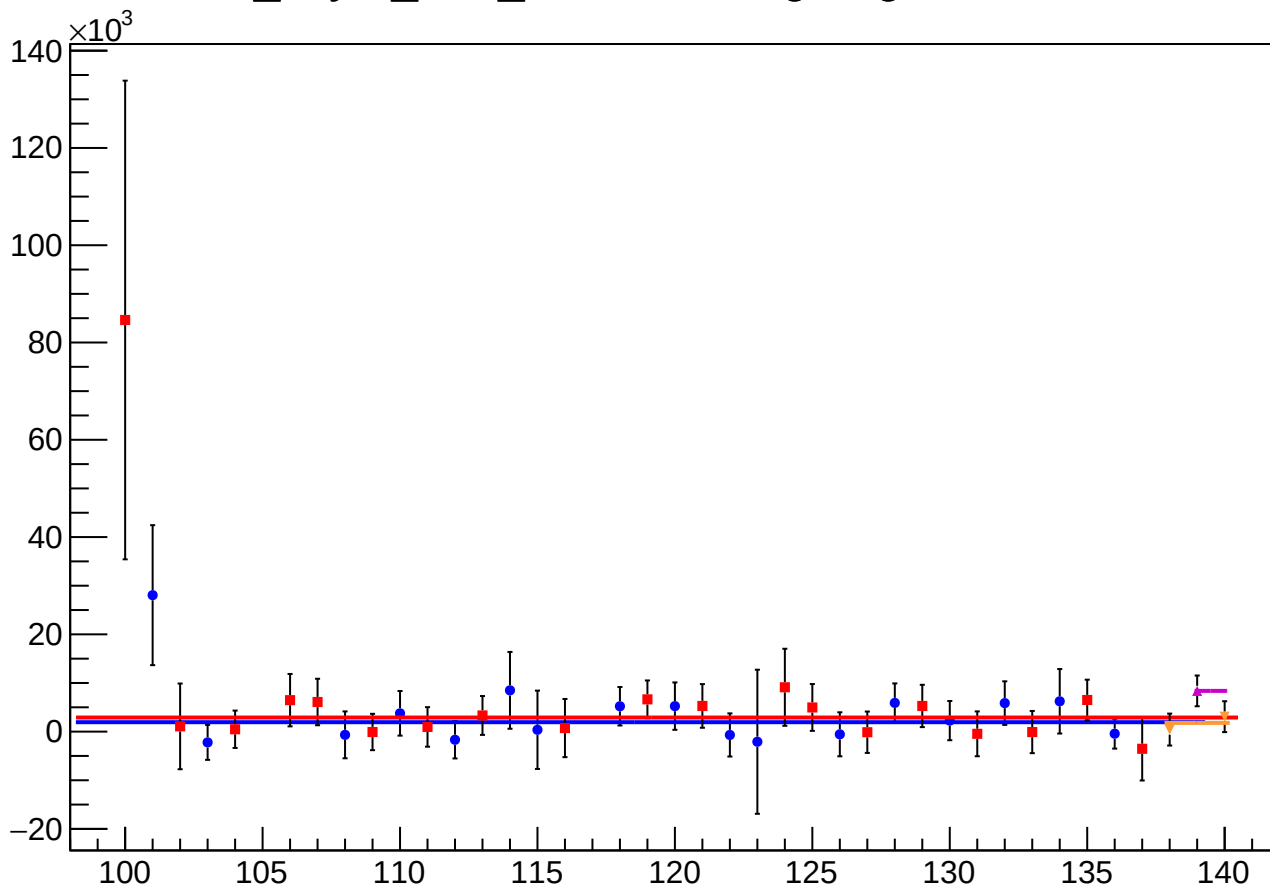
Right: 6290.444+/-1.232  $\chi^2/\text{NDF}$ : 1129725.5/35

In: 6518.933+/-1.742  $\chi^2/\text{NDF}$ : 912967.7/17

Out: 6566.352+/-1.645  $\chi^2/\text{NDF}$ : 974723.3/20

All: 6544.002+/-1.196  $\chi^2/\text{NDF}$ : 1888082.6/38

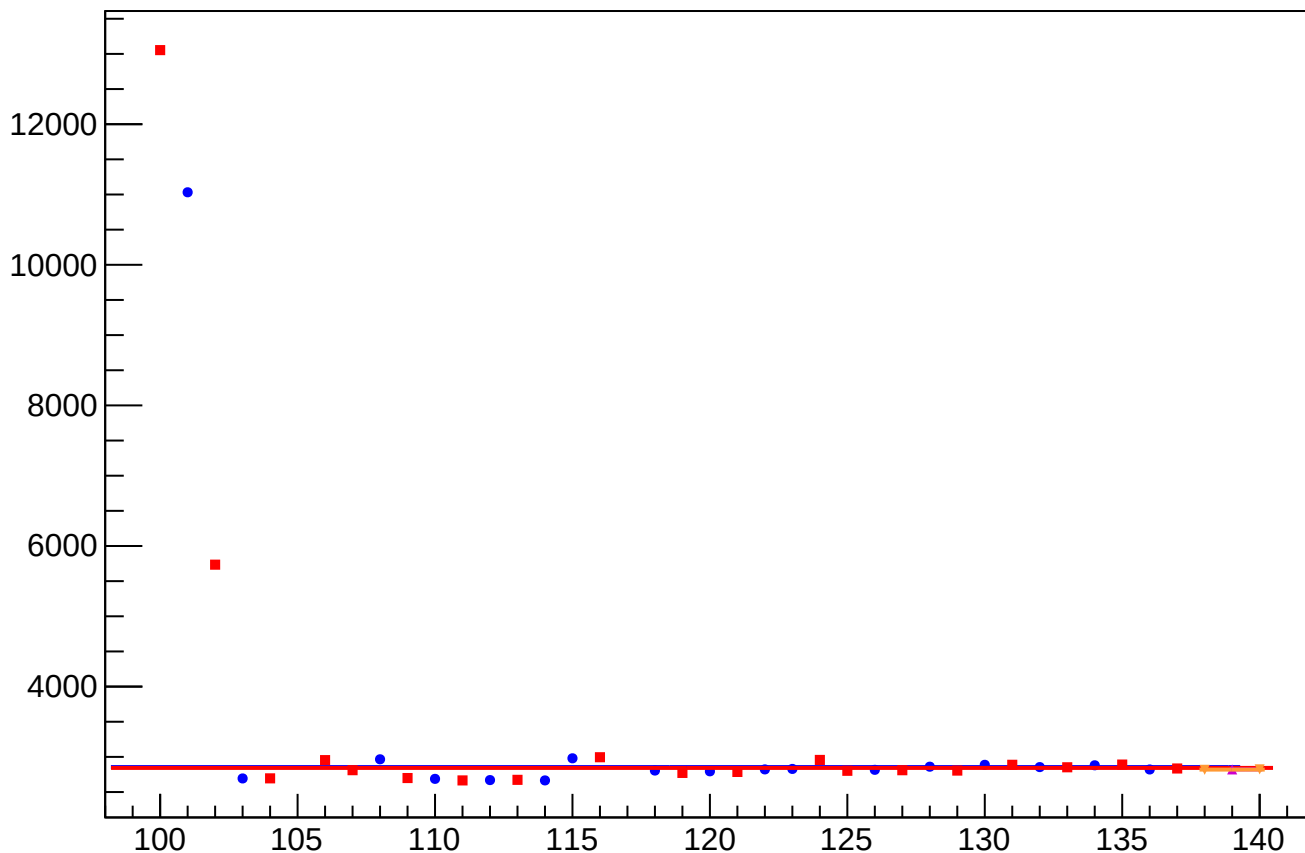
# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 1936.744+/-1128.266  $\chi^2/\text{NDF}$ : 11.3/16  
 Left Out: 1789.992+/-2282.956  $\chi^2/\text{NDF}$ : 0.3/1  
 Right Out: 2896.594+/-1086.848  $\chi^2/\text{NDF}$ : 10.6/18  
 Left In: 8374.442+/-3160.712  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4047.423+/-1850.684  $\chi^2/\text{NDF}$ : 3.2/2  
 Right: 2434.610+/-782.750  $\chi^2/\text{NDF}$ : 22.3/35  
 In: 2664.350+/-1062.595  $\chi^2/\text{NDF}$ : 15.0/17  
 Out: 2692.131+/-981.318  $\chi^2/\text{NDF}$ : 11.2/20  
 All: 2679.343+/-720.920  $\chi^2/\text{NDF}$ : 26.2/38

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2855.108+/-0.798  $\chi^2/\text{NDF}$ : 660906.0/16

Left Out: 2819.392+/-1.614  $\chi^2/\text{NDF}$ : 4.2/1

Right Out: 2843.350+/-0.769  $\chi^2/\text{NDF}$ : 319301.9/18

Left In: 2822.071+/-2.235  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2820.310+/-1.309  $\chi^2/\text{NDF}$ : 5.2/2

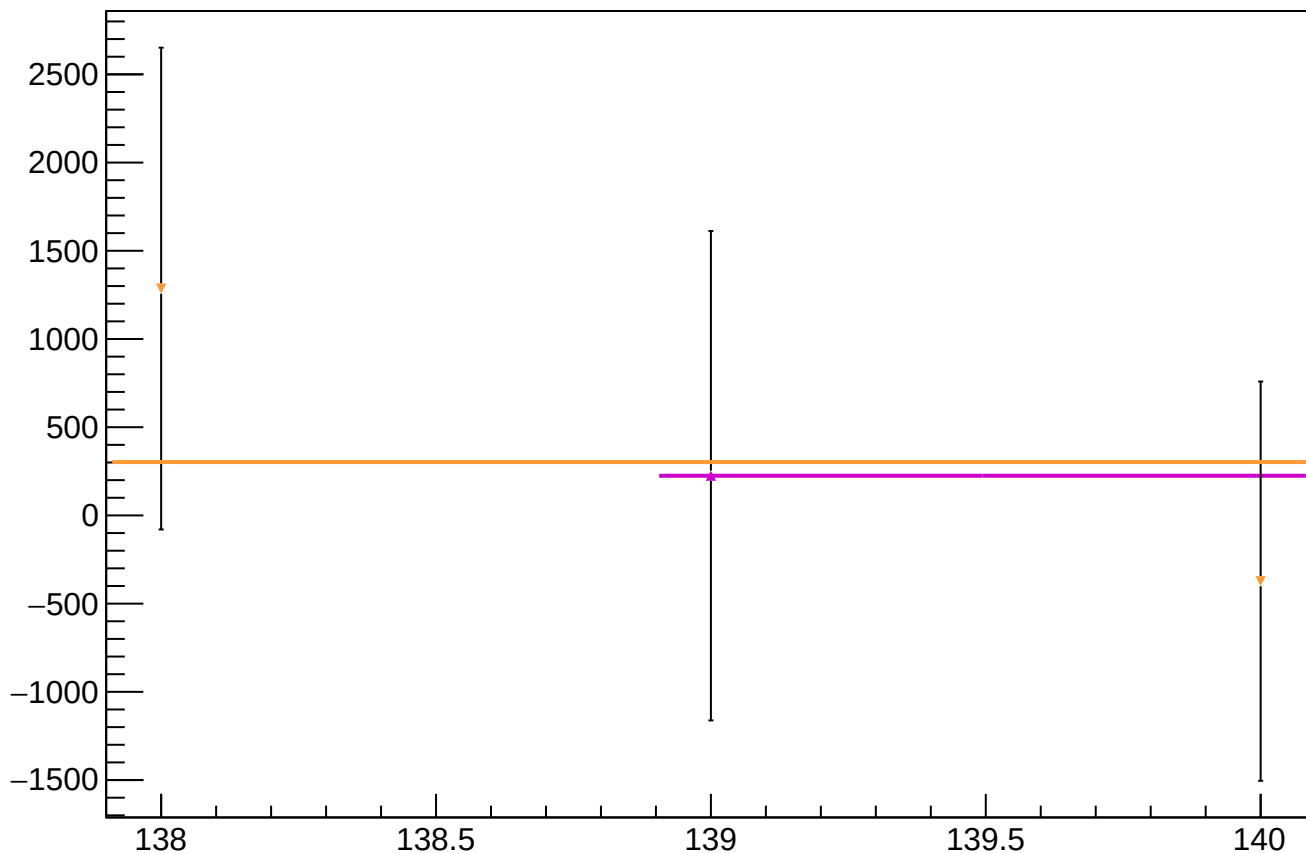
Right: 2849.009+/-0.553  $\chi^2/\text{NDF}$ : 980320.6/35

In: 2851.374+/-0.751  $\chi^2/\text{NDF}$ : 661099.8/17

Out: 2838.923+/-0.694  $\chi^2/\text{NDF}$ : 319485.7/20

All: 2844.654+/-0.510  $\chi^2/\text{NDF}$ : 980733.7/38

asym\_atr1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 302.522+/-871.302  $\chi^2/\text{NDF}$ : 0.9/1

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

Left In: 224.913+/-1386.894  $\chi^2/\text{NDF}$ : 0.0/0

Left: 280.559+/-737.787  $\chi^2/\text{NDF}$ : 0.9/2

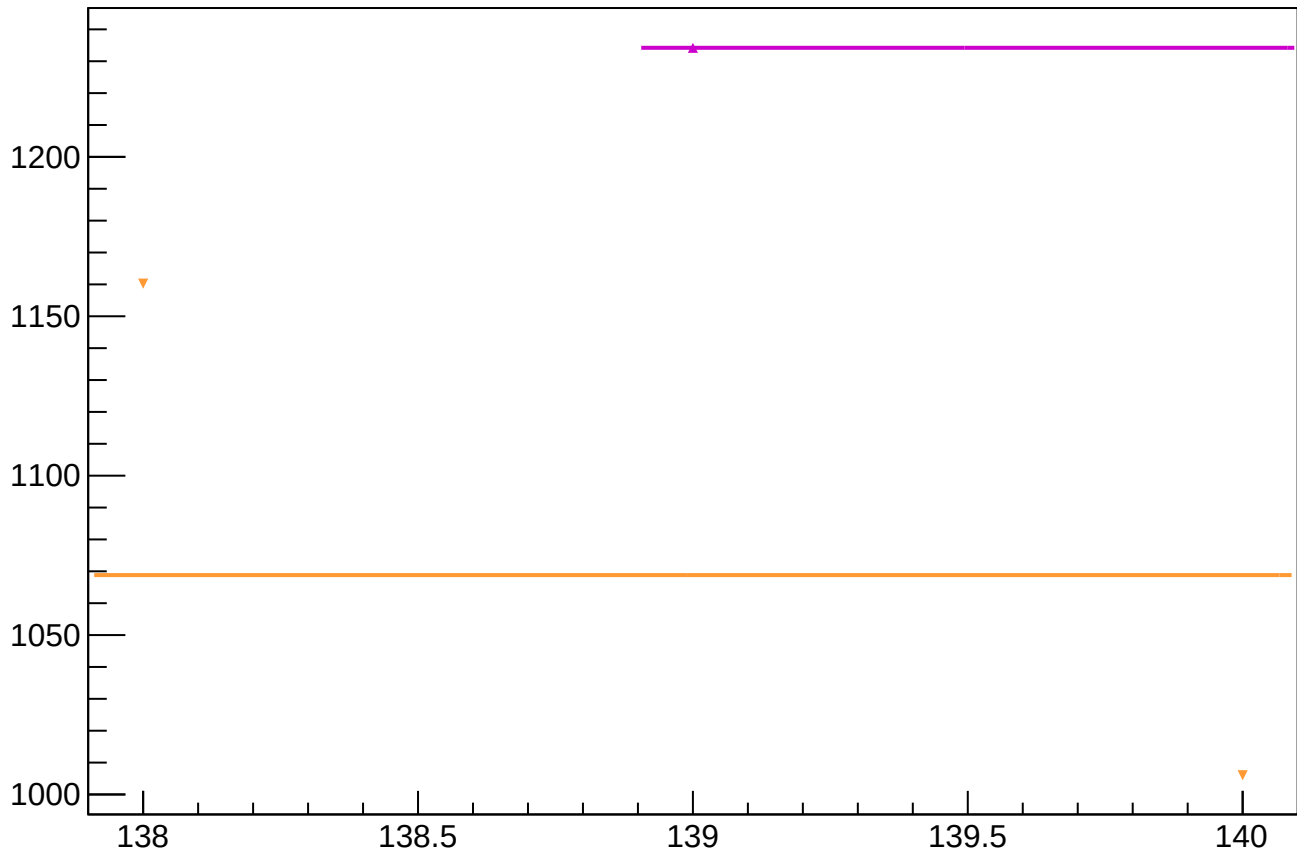
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 224.913+/-1386.894  $\chi^2/\text{NDF}$ : 0.0/0

Out: 302.522+/-871.302  $\chi^2/\text{NDF}$ : 0.9/1

All: 280.559+/-737.787  $\chi^2/\text{NDF}$ : 0.9/2

asym\_atr1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1068.813+/-0.616  $\chi^2/\text{NDF}$ :15122.1/1

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

Left In: 1234.216+/-0.981  $\chi^2/\text{NDF}$ :0.0/0

Left: 1115.621+/-0.522  $\chi^2/\text{NDF}$ : 35518.5/2

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

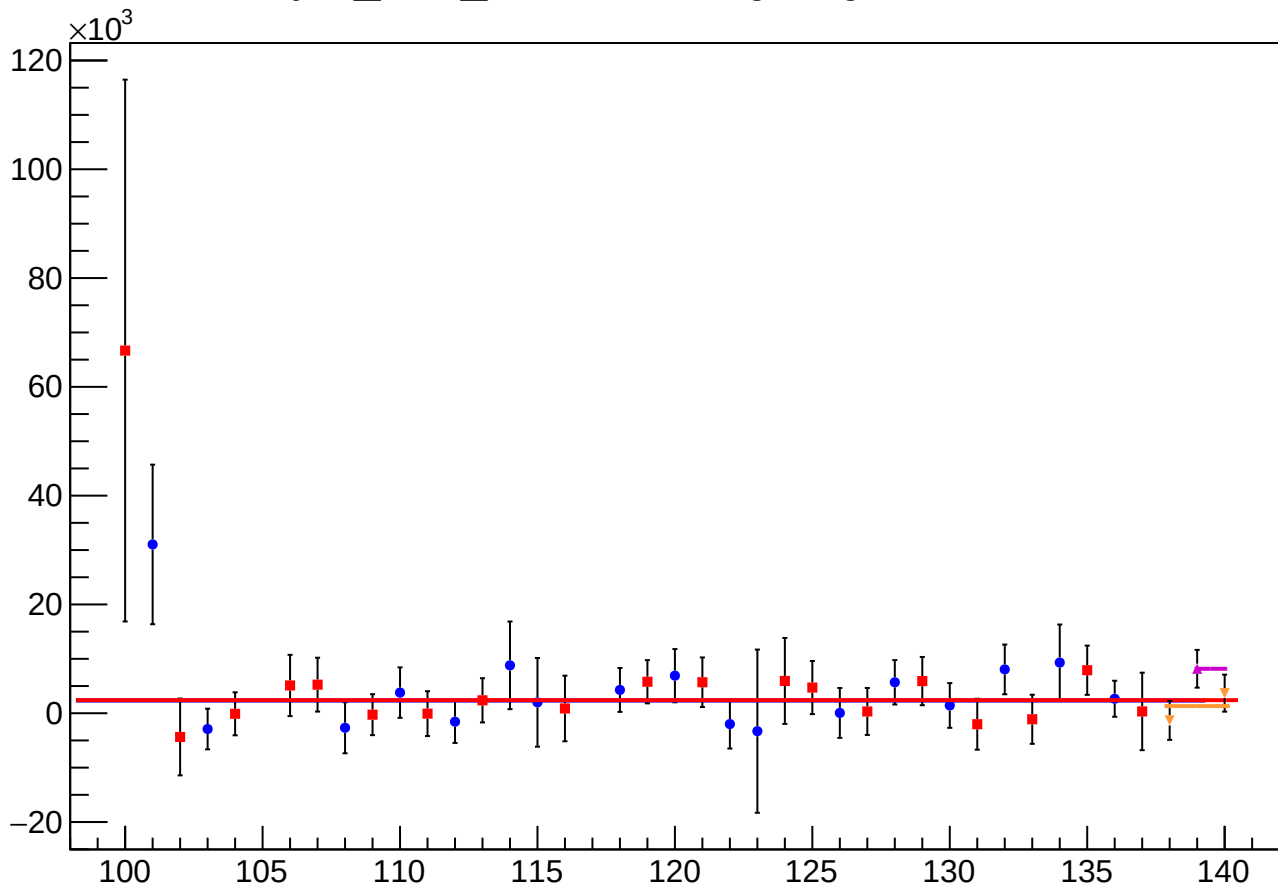
In: 1234.216+/-0.981  $\chi^2/\text{NDF}$ :0.0/0

Out: 1068.813+/-0.616  $\chi^2/\text{NDF}$ :15122.1/1

All: 1115.621+/-0.522  $\chi^2/\text{NDF}$ : 35518.5/2



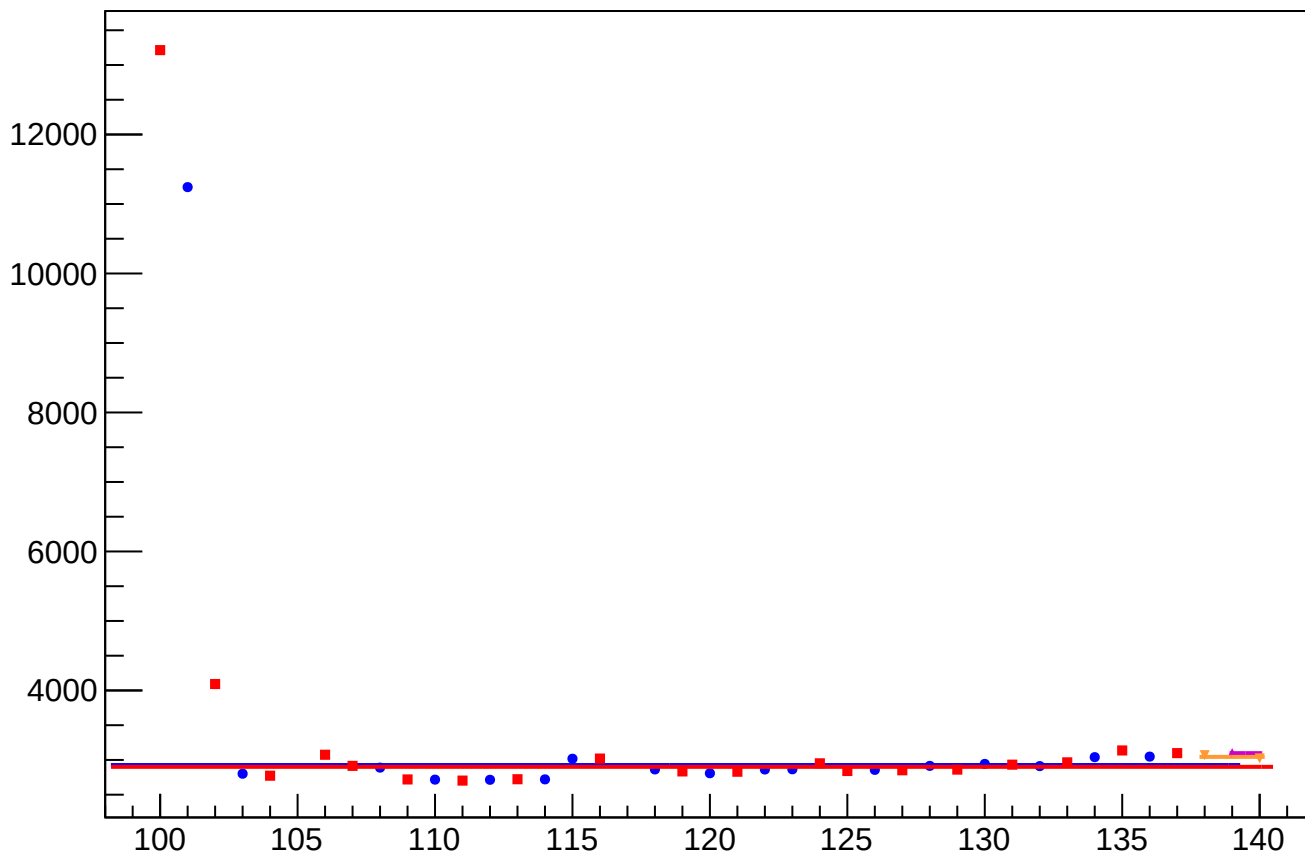
# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2330.134+/-1156.555  $\chi^2/\text{NDF}$ : 14.4/16  
 Left Out: 1316.335+/-2465.160  $\chi^2/\text{NDF}$ : 1.0/1  
 Right Out: 2403.750+/-1110.093  $\chi^2/\text{NDF}$ : 10.1/18  
 Left In: 8172.257+/-3470.834  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3615.178+/-2009.812  $\chi^2/\text{NDF}$ : 3.6/2  
 Right: 2368.450+/-800.876  $\chi^2/\text{NDF}$ : 24.5/35  
 In: 2913.991+/-1097.241  $\chi^2/\text{NDF}$ : 16.9/17  
 Out: 2220.418+/-1012.199  $\chi^2/\text{NDF}$ : 11.3/20  
 All: 2539.289+/-743.983  $\chi^2/\text{NDF}$ : 28.4/38

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2926.610+/-0.818  $\chi^2/\text{NDF}$ : 662794.4/16

Left Out: 3044.195+/-1.743  $\chi^2/\text{NDF}$ :173.8/1

Right Out: 2900.827+/-0.785  $\chi^2/\text{NDF}$ : 169866.6/18

Left In: 3097.678+/-2.454  $\chi^2/\text{NDF}$ :0.0/0

Left: 3062.129+/-1.421  $\chi^2/\text{NDF}$ : 489.5/2

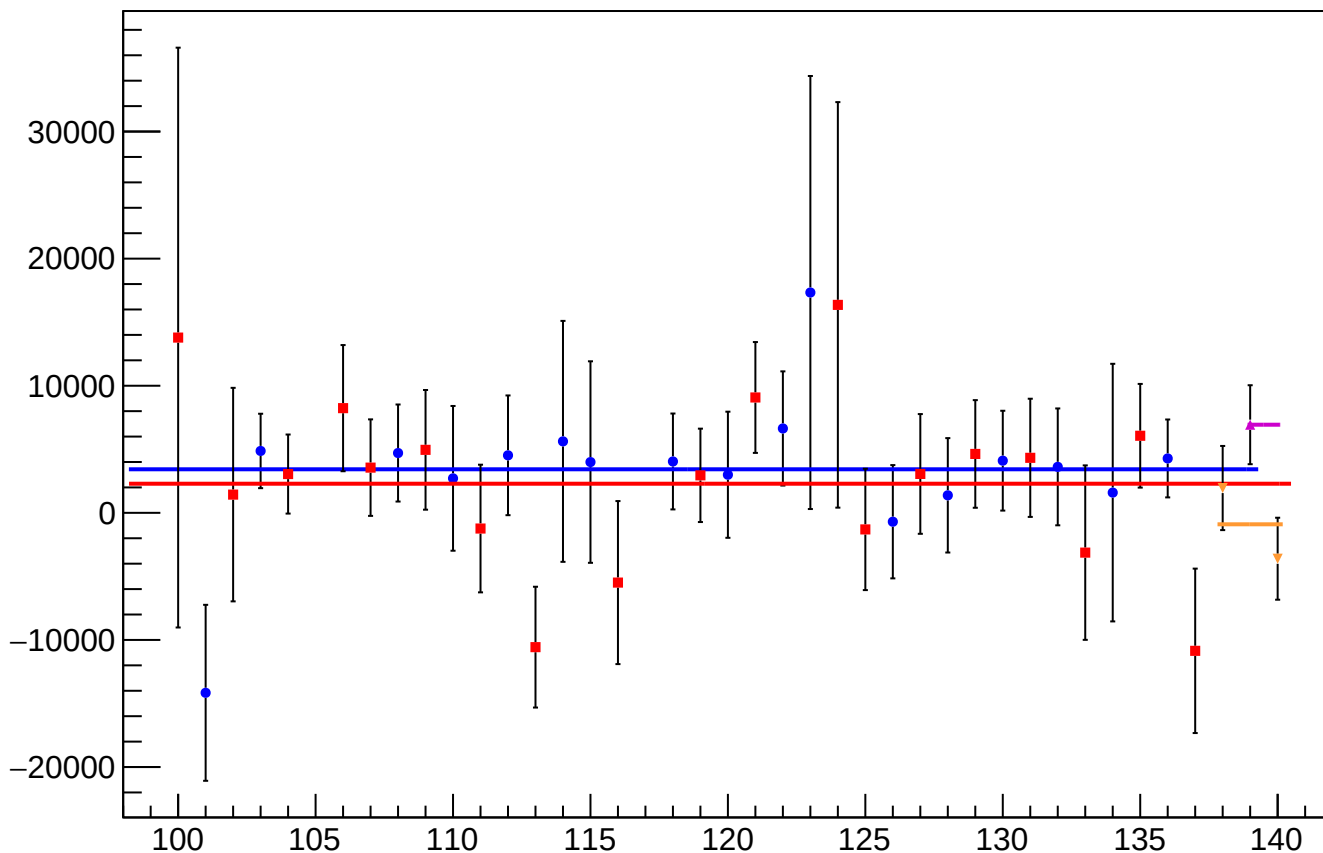
Right: 2913.190+/-0.566  $\chi^2/\text{NDF}$ : 833178.3/35

In: 2943.707+/-0.776  $\chi^2/\text{NDF}$ :667167.3/17

Out: 2924.998+/-0.716  $\chi^2/\text{NDF}$ :175664.6/20

All: 2933.599+/-0.526  $\chi^2/\text{NDF}$ : 843146.0/38

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3426.396 $\pm$ 1117.275  $\chi^2$ /NDF: 9.4/16

Left Out: -902.073 $\pm$ 2310.164  $\chi^2$ /NDF:1.4/1

Right Out: 2290.985 $\pm$ 1111.370  $\chi^2$ /NDF: 21.4/18

Left In: 6933.445 $\pm$ 3106.792  $\chi^2$ /NDF:0.0/0

Left: 1887.773 $\pm$ 1853.824  $\chi^2$ /NDF: 5.5/2

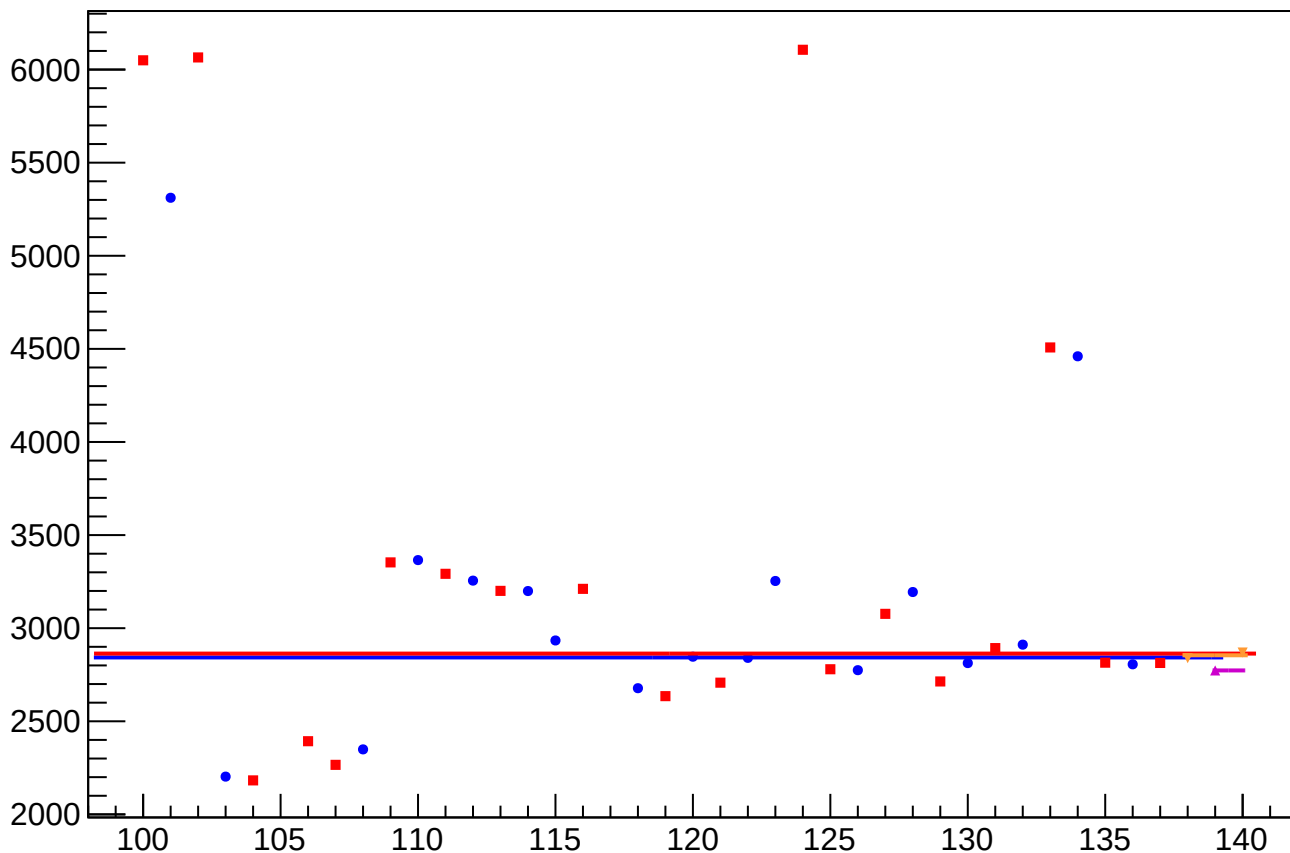
Right: 2855.682 $\pm$ 787.937  $\chi^2$ /NDF: 31.3/35

In: 3828.018 $\pm$ 1051.356  $\chi^2$ /NDF:10.5/17

Out: 1690.881 $\pm$ 1001.504  $\chi^2$ /NDF:24.4/20

All: 2707.581 $\pm$ 725.154  $\chi^2$ /NDF: 37.1/38

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2842.874+/-0.790  $\chi^2/\text{NDF}$ : 488114.5/16

Left Out: 2854.489+/-1.634  $\chi^2/\text{NDF}$ : 86.4/1

Right Out: 2863.592+/-0.786  $\chi^2/\text{NDF}$ : 760763.4/18

Left In: 2773.136+/-2.197  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2825.523+/-1.311  $\chi^2/\text{NDF}$ : 969.5/2

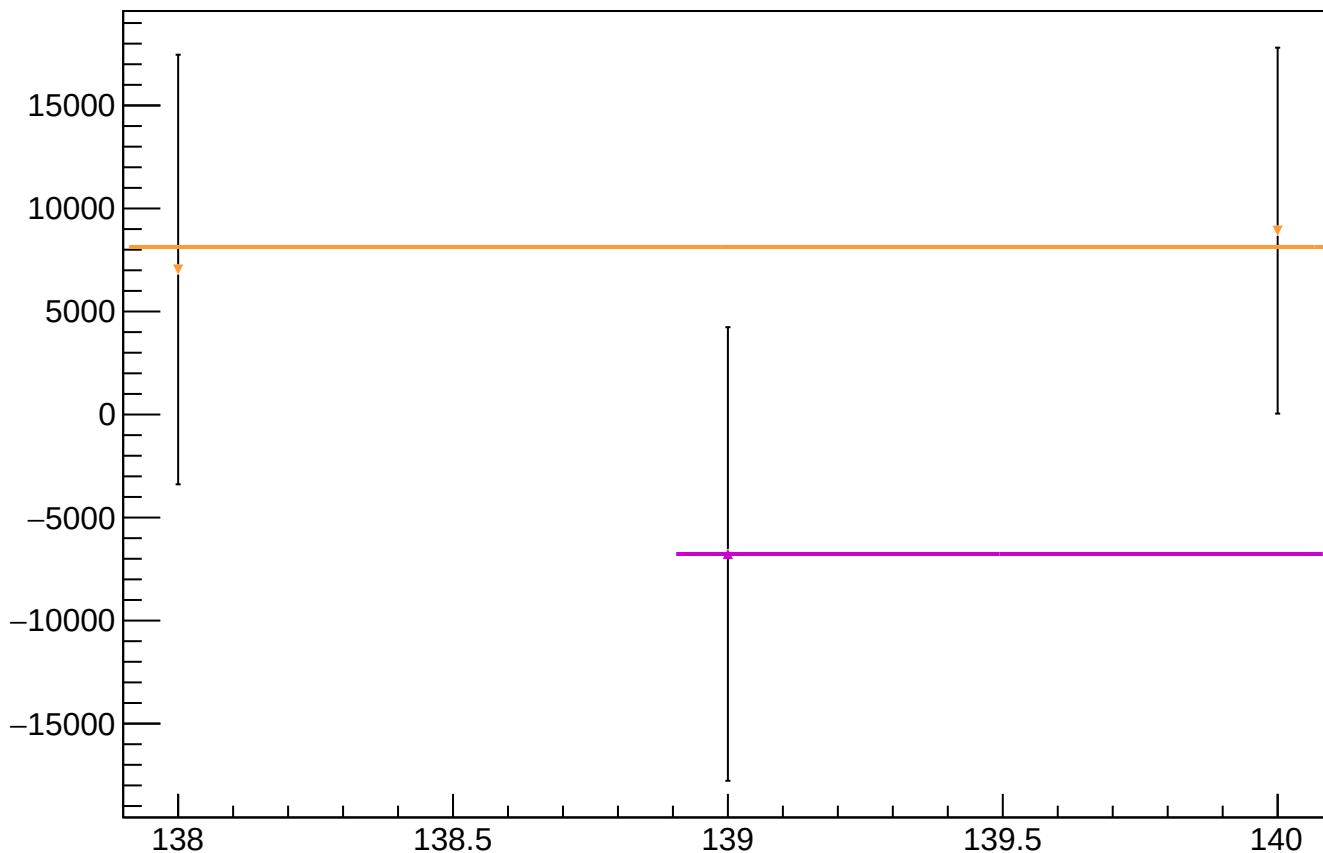
Right: 2853.292+/-0.557  $\chi^2/\text{NDF}$ : 1249223.7/35

In: 2834.888+/-0.743  $\chi^2/\text{NDF}$ : 489006.8/17

Out: 2861.882+/-0.708  $\chi^2/\text{NDF}$ : 760875.0/20

All: 2849.044+/-0.513  $\chi^2/\text{NDF}$ : 1250573.3/38

# asym\_atr2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 8130.976 $\pm$ 6759.734  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -6768.146 $\pm$ 11007.276  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4050.762 $\pm$ 5760.245  $\chi^2/\text{NDF}$ : 1.3/2

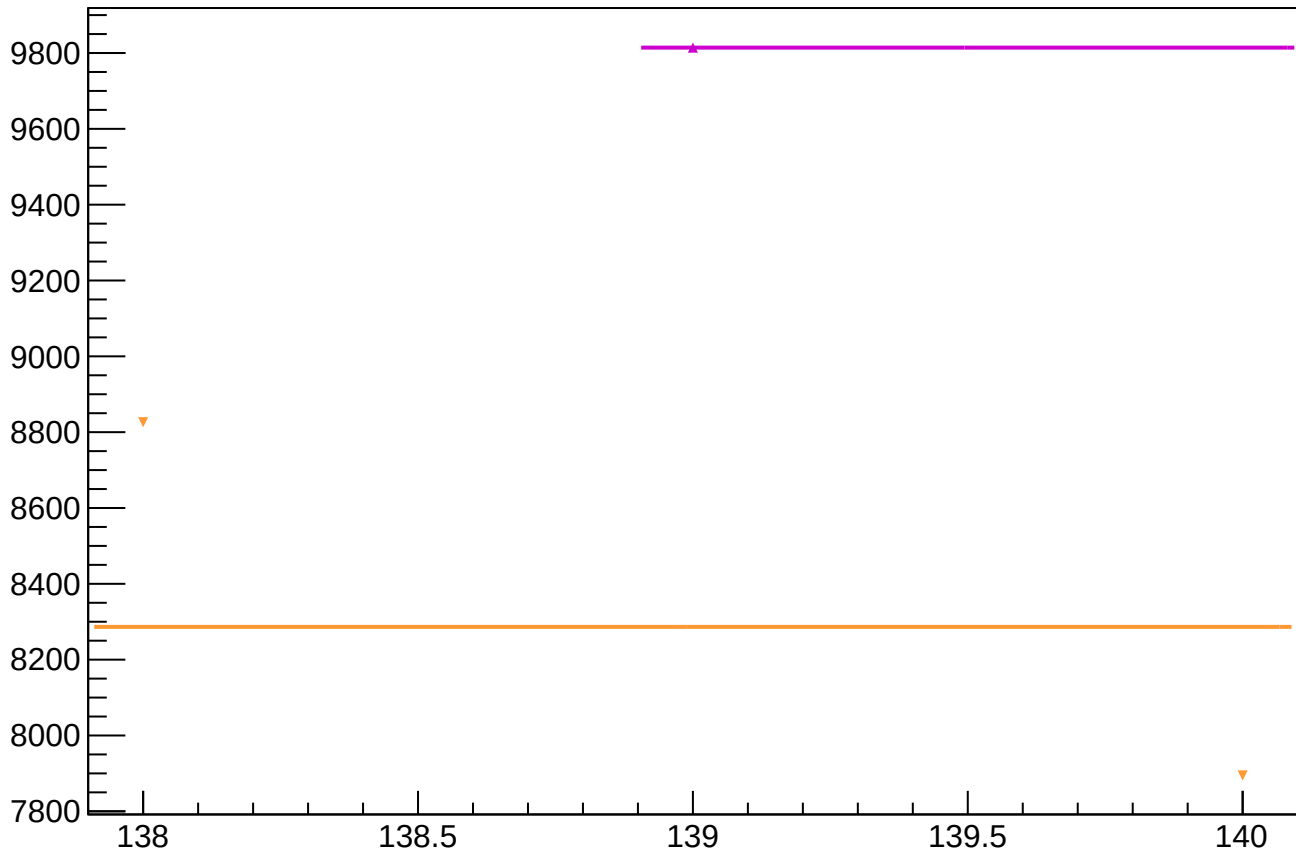
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6768.146 $\pm$ 11007.276  $\chi^2/\text{NDF}$ : 0.0/0

Out: 8130.976 $\pm$ 6759.734  $\chi^2/\text{NDF}$ : 0.0/1

All: 4050.762 $\pm$ 5760.245  $\chi^2/\text{NDF}$ : 1.3/2

# asym\_atr2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 8286.424+/-4.780  $\chi^2/\text{NDF}$ : 9256.7/1

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

Left In: 9814.218+/-7.783  $\chi^2/\text{NDF}$ : 0.0/0

Left: 8704.819+/-4.073  $\chi^2/\text{NDF}$ : 37235.0/2

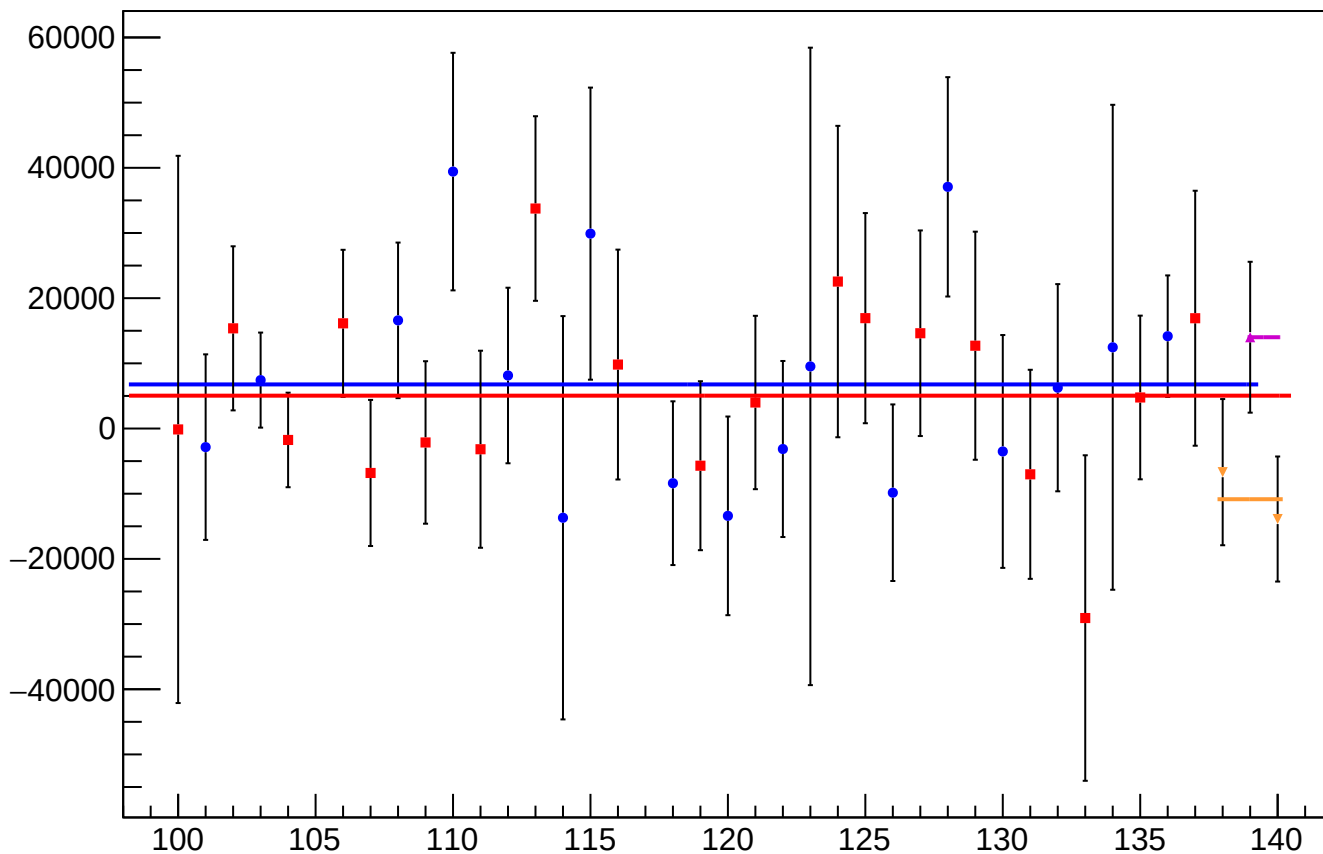
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9814.218+/-7.783  $\chi^2/\text{NDF}$ : 0.0/0

Out: 8286.424+/-4.780  $\chi^2/\text{NDF}$ : 9256.7/1

All: 8704.819+/-4.073  $\chi^2/\text{NDF}$ : 37235.0/2

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6767.402+/-3387.139  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: -10846.177+/-7289.992  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 5041.440+/-3167.616  $\chi^2/\text{NDF}$ : 13.6/18

Left In: 14008.264+/-11573.855  $\chi^2/\text{NDF}$ : 0.0/0

Left: -3786.437+/-6168.370  $\chi^2/\text{NDF}$ : 3.5/2

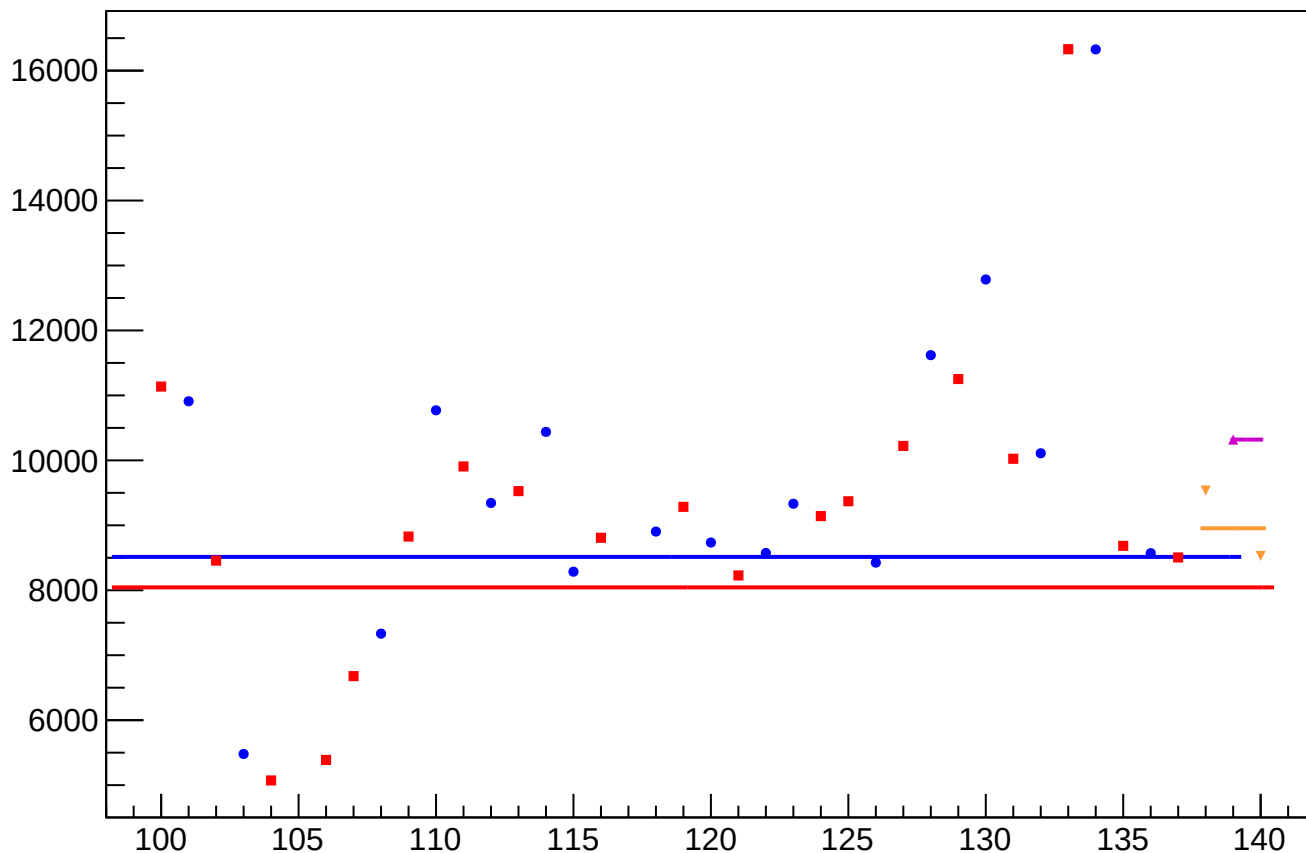
Right: 5846.682+/-2313.559  $\chi^2/\text{NDF}$ : 29.1/35

In: 7338.633+/-3250.789  $\chi^2/\text{NDF}$ : 15.7/17

Out: 2518.195+/-2905.209  $\chi^2/\text{NDF}$ : 17.8/20

All: 4658.658+/-2166.205  $\chi^2/\text{NDF}$ : 34.8/38

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8513.665+/-2.395  $\chi^2/\text{NDF}$ : 762614.5/16

Left Out: 8954.171+/-5.155  $\chi^2/\text{NDF}$ : 9303.3/1

Right Out: 8044.739+/-2.240  $\chi^2/\text{NDF}$ : 952310.5/18

Left In: 10320.026+/-8.184  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9342.133+/-4.362  $\chi^2/\text{NDF}$ : 29245.4/2

Right: 8263.507+/-1.636  $\chi^2/\text{NDF}$ : 1735374.5/35

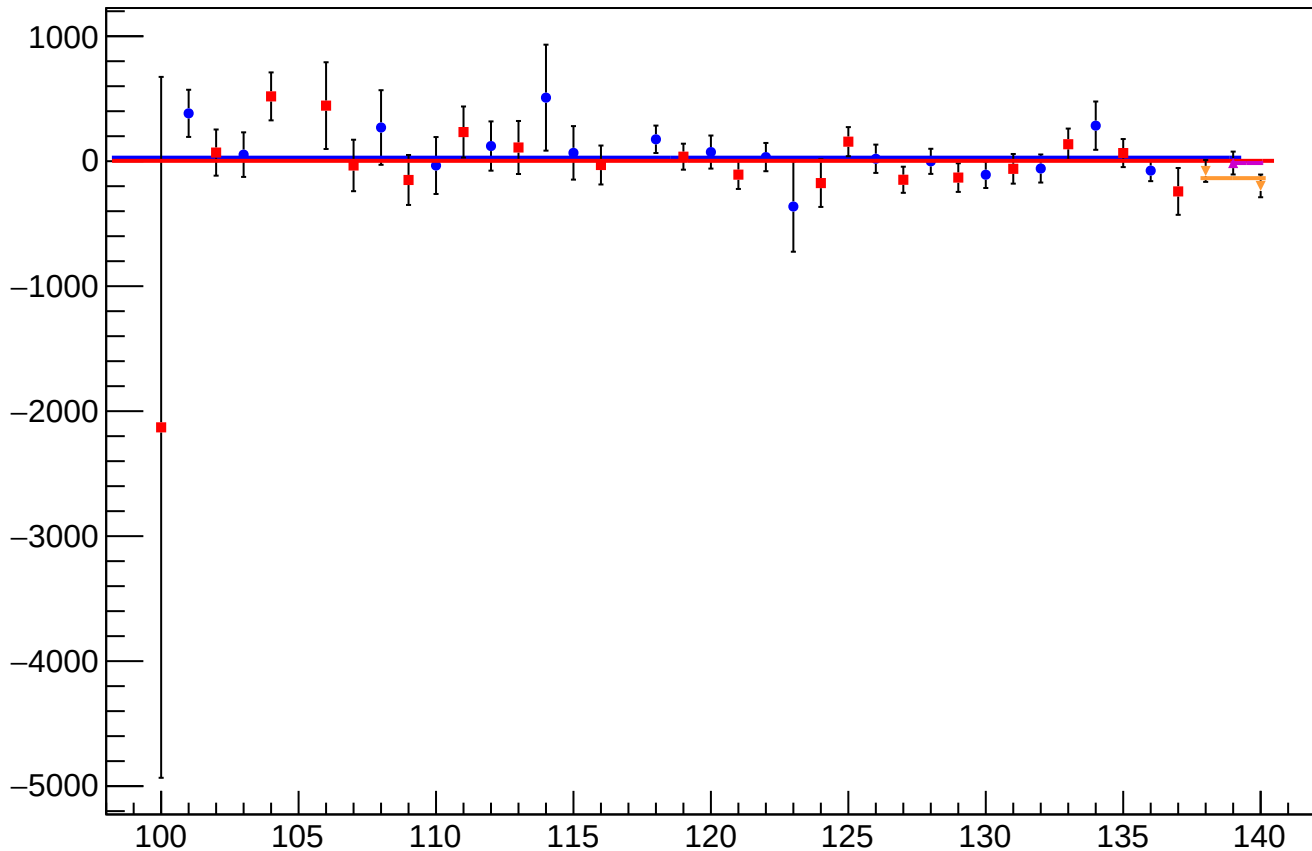
In: 8656.169+/-2.299  $\chi^2/\text{NDF}$ : 807488.4/17

Out: 8189.164+/-2.054  $\chi^2/\text{NDF}$ : 987796.3/20

All: 8396.526+/-1.532  $\chi^2/\text{NDF}$ : 1818233.0/38



# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In:  $28.303 \pm 33.679$   $\chi^2/\text{NDF}: 14.5/16$

Left Out:  $-135.541 \pm 62.963$   $\chi^2/\text{NDF}: 0.9/1$

Right Out:  $2.963 \pm 33.691$   $\chi^2/\text{NDF}: 22.3/18$

Left In:  $-14.756 \pm 91.457$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-96.701 \pm 51.861$   $\chi^2/\text{NDF}: 2.1/2$

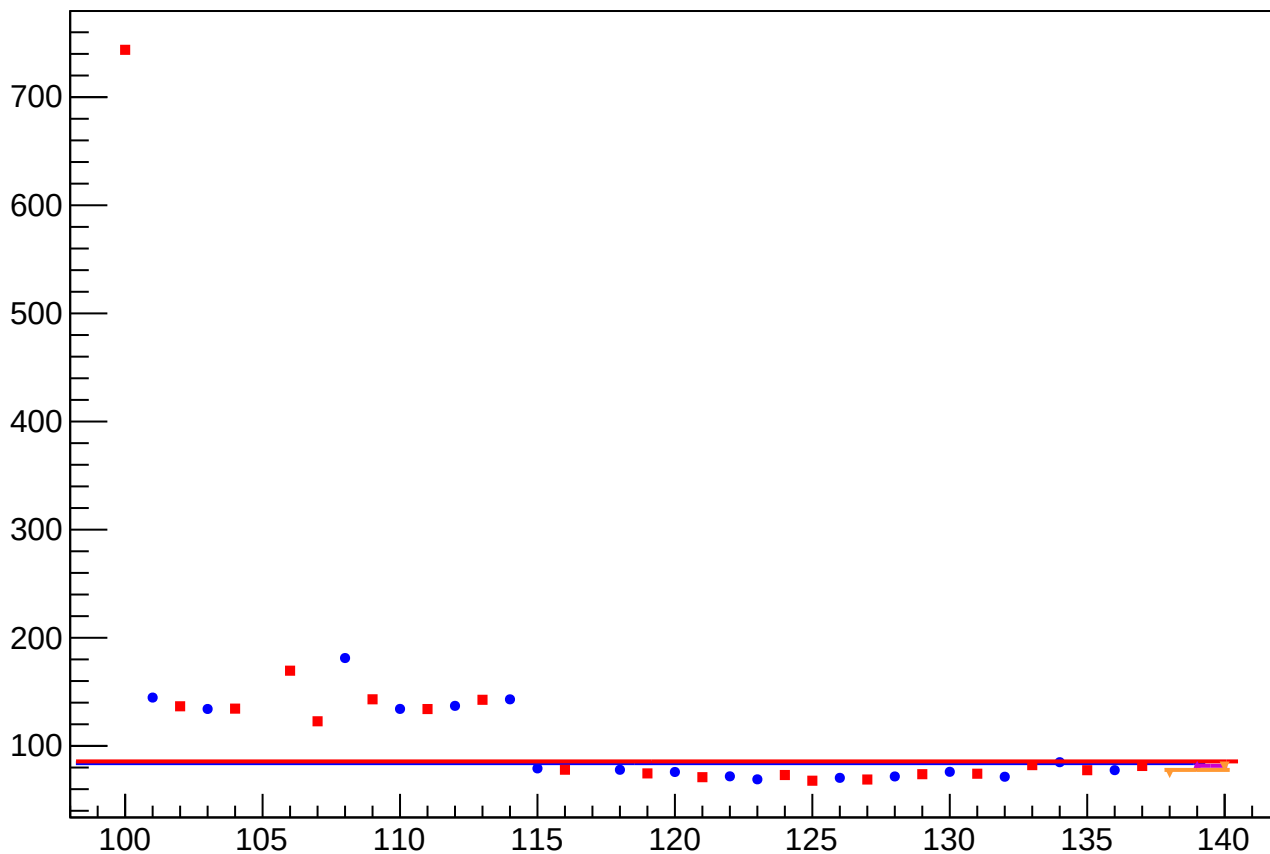
Right:  $15.637 \pm 23.819$   $\chi^2/\text{NDF}: 37.0/35$

In:  $23.161 \pm 31.604$   $\chi^2/\text{NDF}: 14.7/17$

Out:  $-27.866 \pm 29.705$   $\chi^2/\text{NDF}: 26.9/20$

All:  $-3.931 \pm 21.645$   $\chi^2/\text{NDF}: 43.0/38$

## dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 84.067+/-0.024     $\chi^2/\text{NDF}$ : 1005835.5/16

Left Out: 77.796+/-0.045     $\chi^2/\text{NDF}$ :4566.6/1

Right Out: 85.667+/-0.024     $\chi^2/\text{NDF}$ : 1215221.9/18

Left In: 81.602+/-0.065     $\chi^2/\text{NDF}$ :0.0/0

Left:  $79.020 \pm 0.037$      $\chi^2/\text{NDF}$ : 6916.5/2

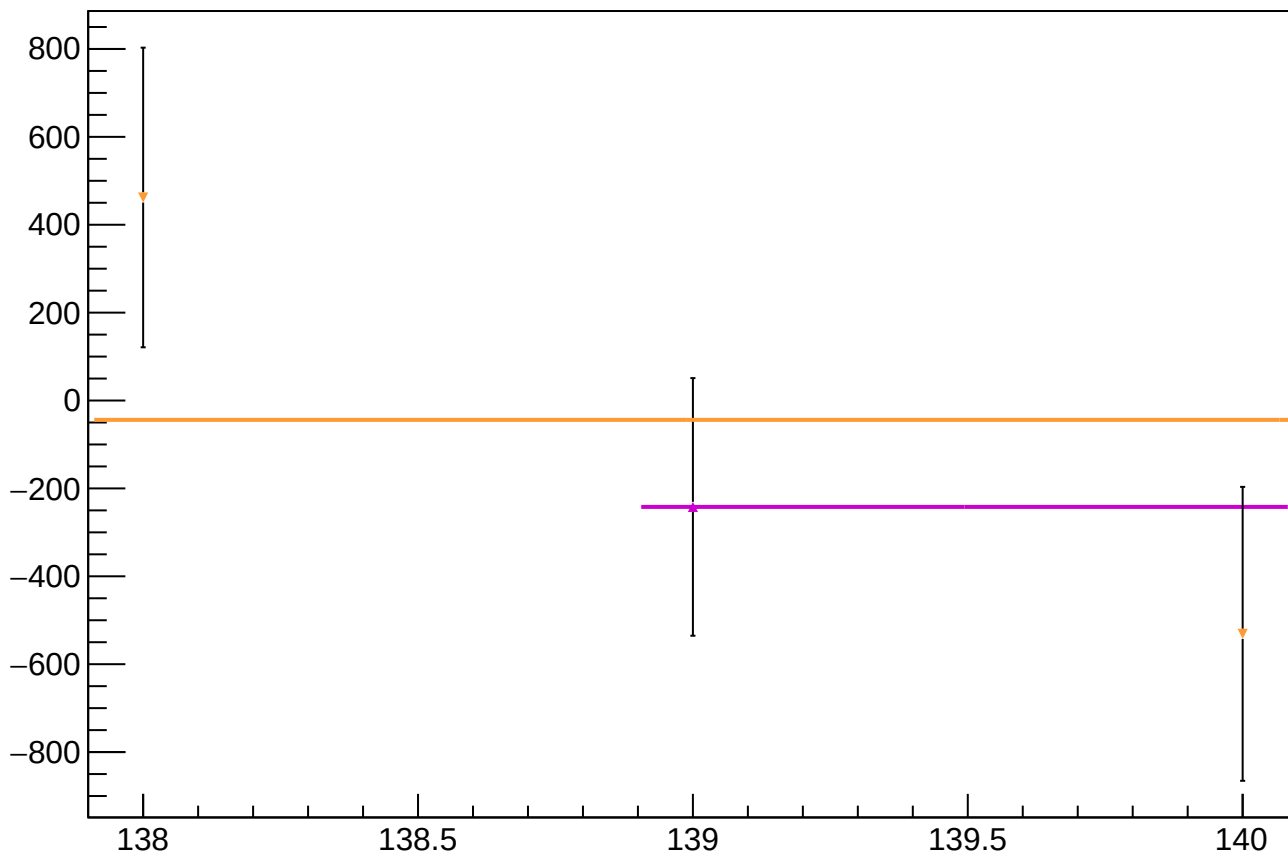
Right:  $84.866 \pm 0.017$     $\chi^2/\text{NDF}: 2223312.8/35$

ln: 83.773+/-0.022     $\chi^2/\text{NDF}$ :1007114.9/17

Out: 83.915+/-0.021     $\chi^2/\text{NDF}$ :1244085.1/20

All: 83.848+/-0.015     $\chi^2/\text{NDF}$ : 2251221.5/38

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -43.990+/-238.739  $\chi^2/\text{NDF}$ : 4.3/1

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

Left In: -242.086+/-293.136  $\chi^2/\text{NDF}$ : 0.0/0

Left: -122.987+/-185.113  $\chi^2/\text{NDF}$ : 4.6/2

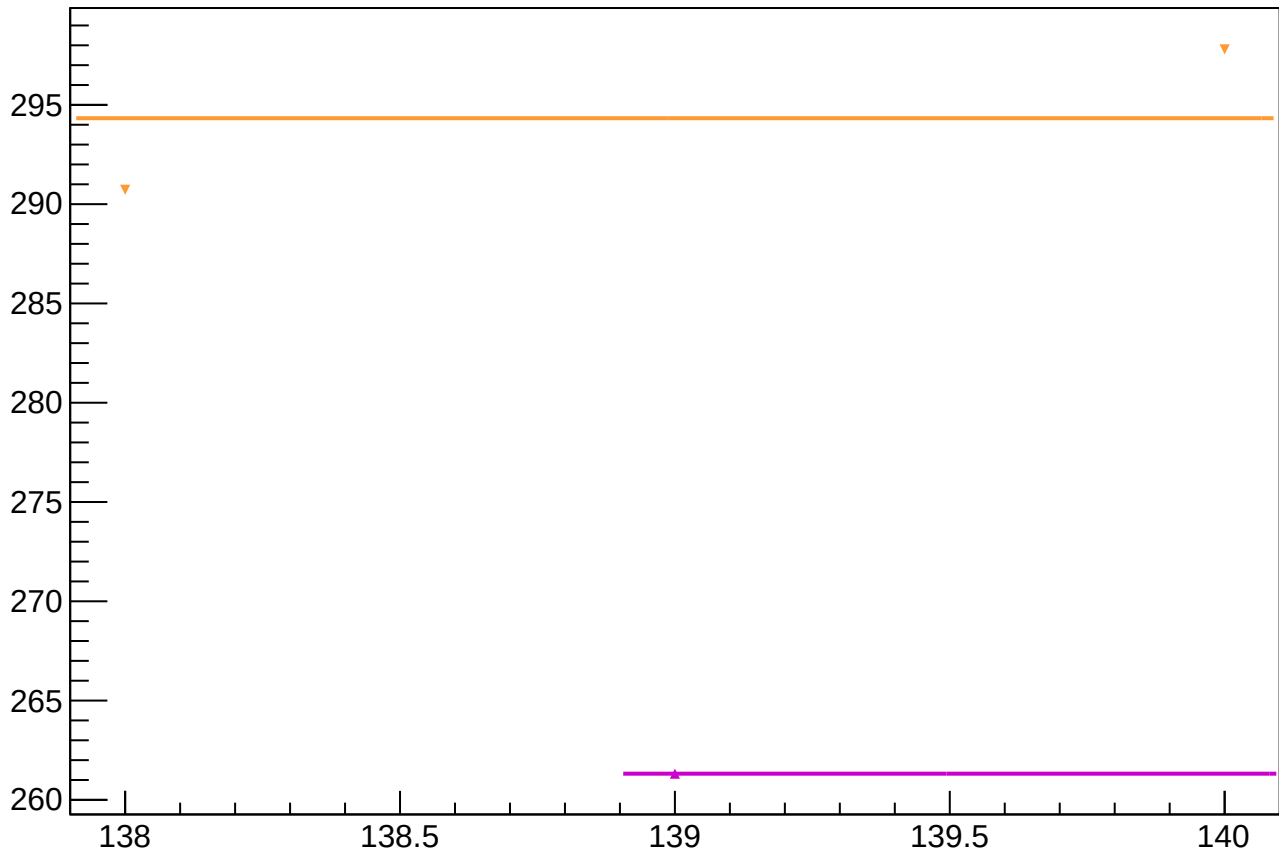
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -242.086+/-293.136  $\chi^2/\text{NDF}$ : 0.0/0

Out: -43.990+/-238.739  $\chi^2/\text{NDF}$ : 4.3/1

All: -122.987+/-185.113  $\chi^2/\text{NDF}$ : 4.6/2

# asym\_sam1\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 294.329+/-0.169  $\chi^2/\text{NDF}$ : 438.4/1

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

Left In: 261.318+/-0.207  $\chi^2/\text{NDF}$ : 0.0/0

Left: 281.164+/-0.131  $\chi^2/\text{NDF}$ : 15686.8/2

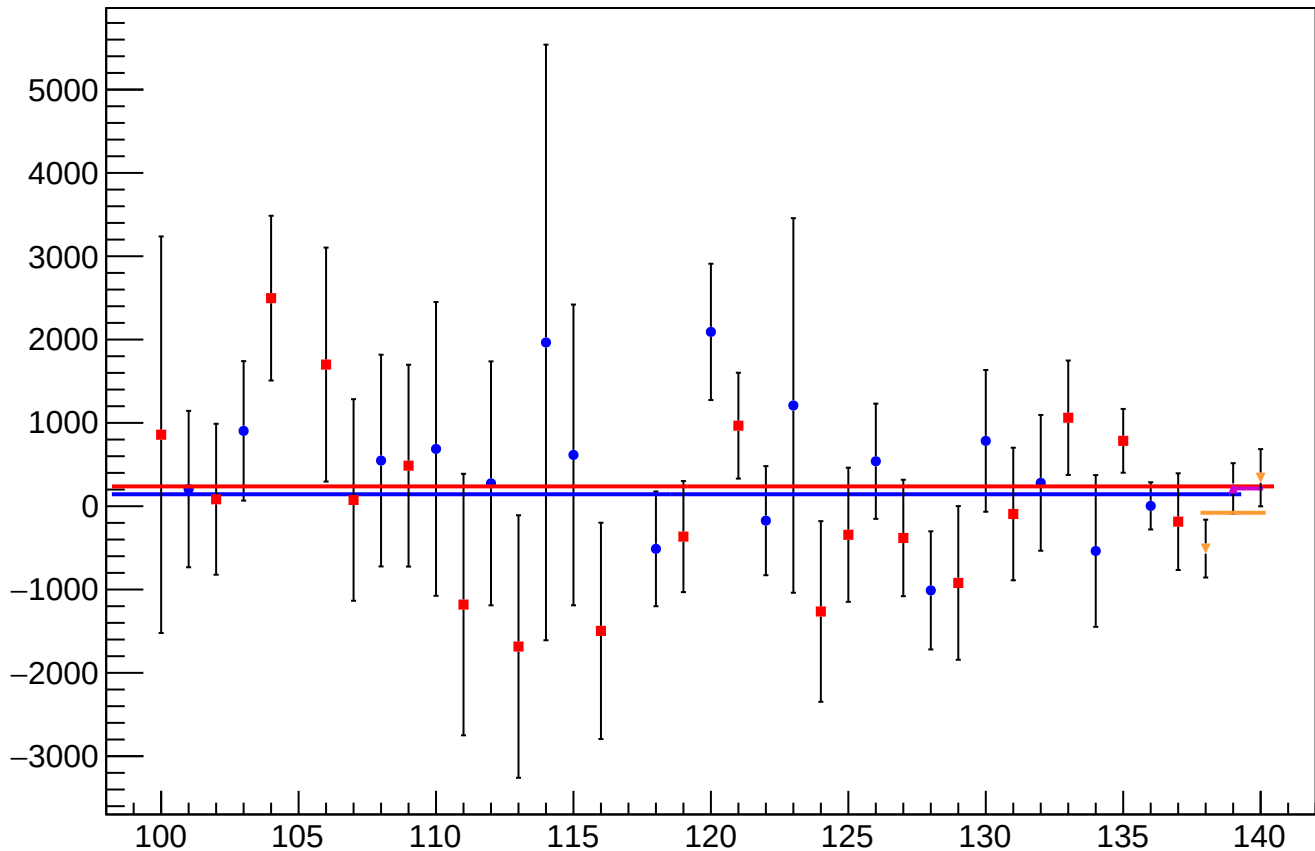
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 261.318+/-0.207  $\chi^2/\text{NDF}$ : 0.0/0

Out: 294.329+/-0.169  $\chi^2/\text{NDF}$ : 438.4/1

All: 281.164+/-0.131  $\chi^2/\text{NDF}$ : 15686.8/2

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 143.486+/-179.237  $\chi^2/\text{NDF}$ : 12.8/16

Left Out: -78.830+/-244.011  $\chi^2/\text{NDF}$ : 3.0/1

Right Out: 237.821+/-183.995  $\chi^2/\text{NDF}$ : 21.7/18

Left In: 213.041+/-303.453  $\chi^2/\text{NDF}$ : 0.0/0

Left: 35.785+/-190.158  $\chi^2/\text{NDF}$ : 3.6/2

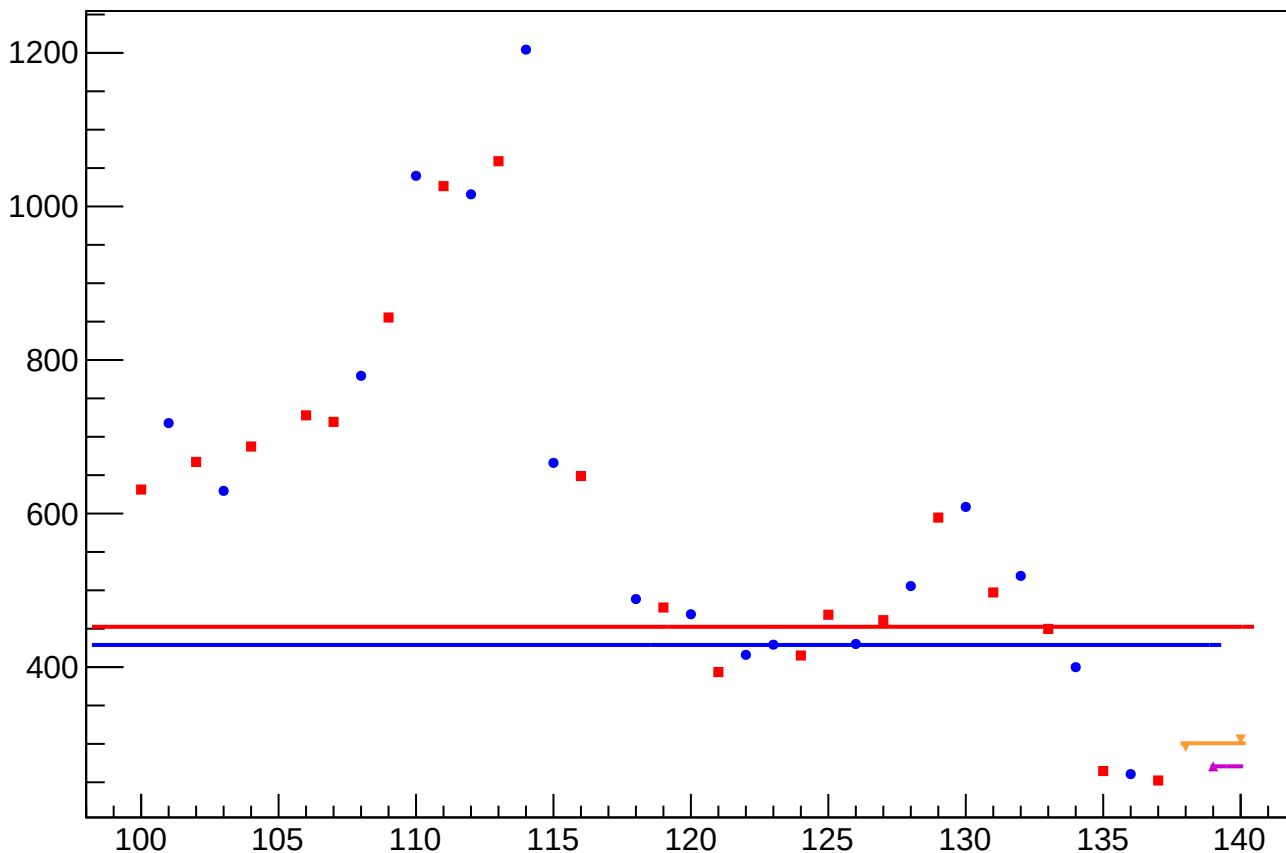
Right: 189.418+/-128.389  $\chi^2/\text{NDF}$ : 34.6/35

In: 161.476+/-154.327  $\chi^2/\text{NDF}$ : 12.8/17

Out: 123.041+/-146.910  $\chi^2/\text{NDF}$ : 25.8/20

All: 141.313+/-106.407  $\chi^2/\text{NDF}$ : 38.6/38

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.856+/-0.127  $\chi^2/\text{NDF}$ : 2012329.6/16

Left Out: 300.802+/-0.173  $\chi^2/\text{NDF}$ : 832.4/1

Right Out: 452.517+/-0.130  $\chi^2/\text{NDF}$ : 2039238.5/18

Left In: 270.760+/-0.215  $\chi^2/\text{NDF}$ : 0.0/0

Left: 289.005+/-0.134  $\chi^2/\text{NDF}$ : 12736.8/2

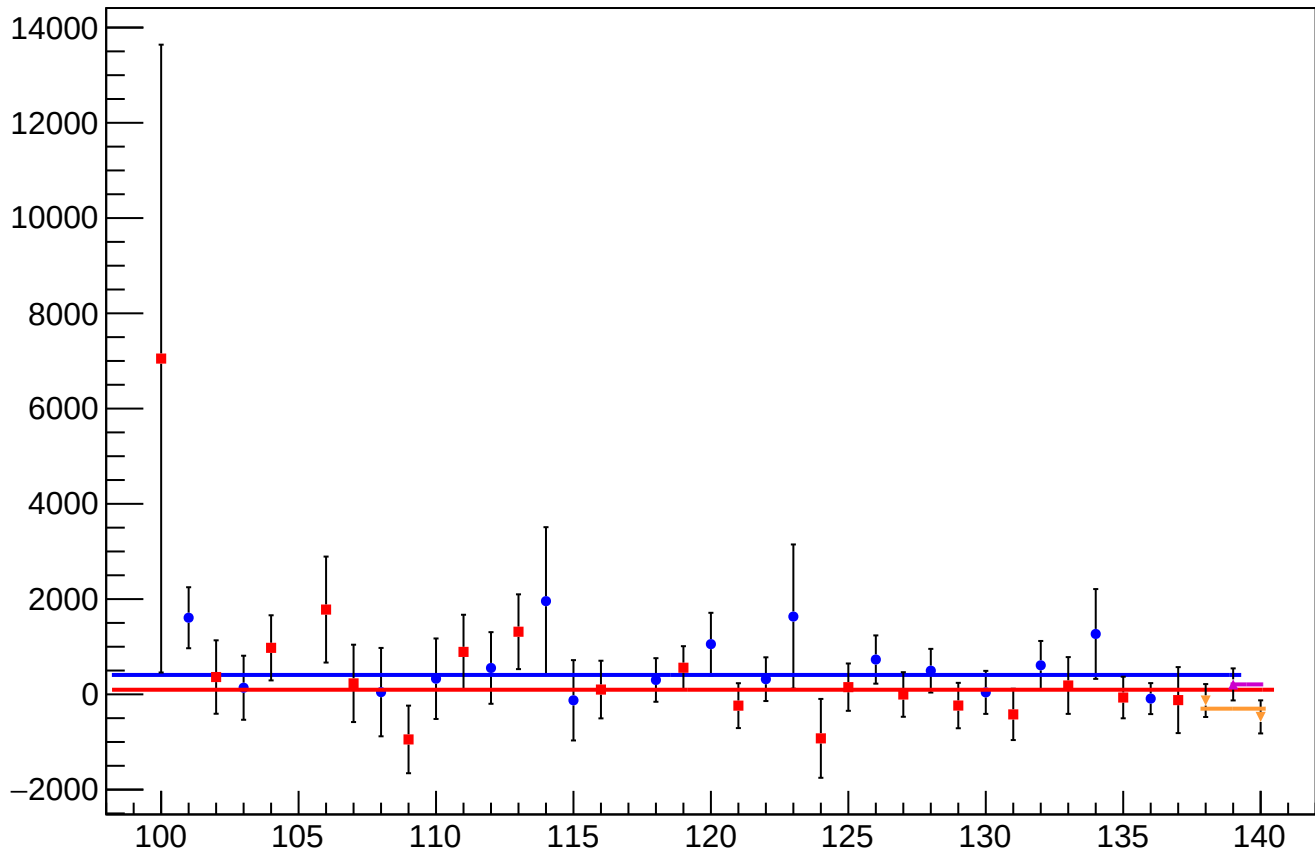
Right: 440.377+/-0.091  $\chi^2/\text{NDF}$ : 4068538.6/35

In: 387.965+/-0.109  $\chi^2/\text{NDF}$ : 2414784.1/17

Out: 397.523+/-0.104  $\chi^2/\text{NDF}$ : 2532977.2/20

All: 392.980+/-0.075  $\chi^2/\text{NDF}$ : 4951785.6/38

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 407.640 $\pm$ 139.972  $\chi^2$ /NDF: 11.4/16

Left Out: -300.575 $\pm$ 244.957  $\chi^2$ /NDF:0.5/1

Right Out: 96.852 $\pm$ 139.191  $\chi^2$ /NDF: 15.6/18

Left In: 208.942 $\pm$ 336.315  $\chi^2$ /NDF:0.0/0

Left: -123.967 $\pm$ 198.003  $\chi^2$ /NDF: 2.0/2

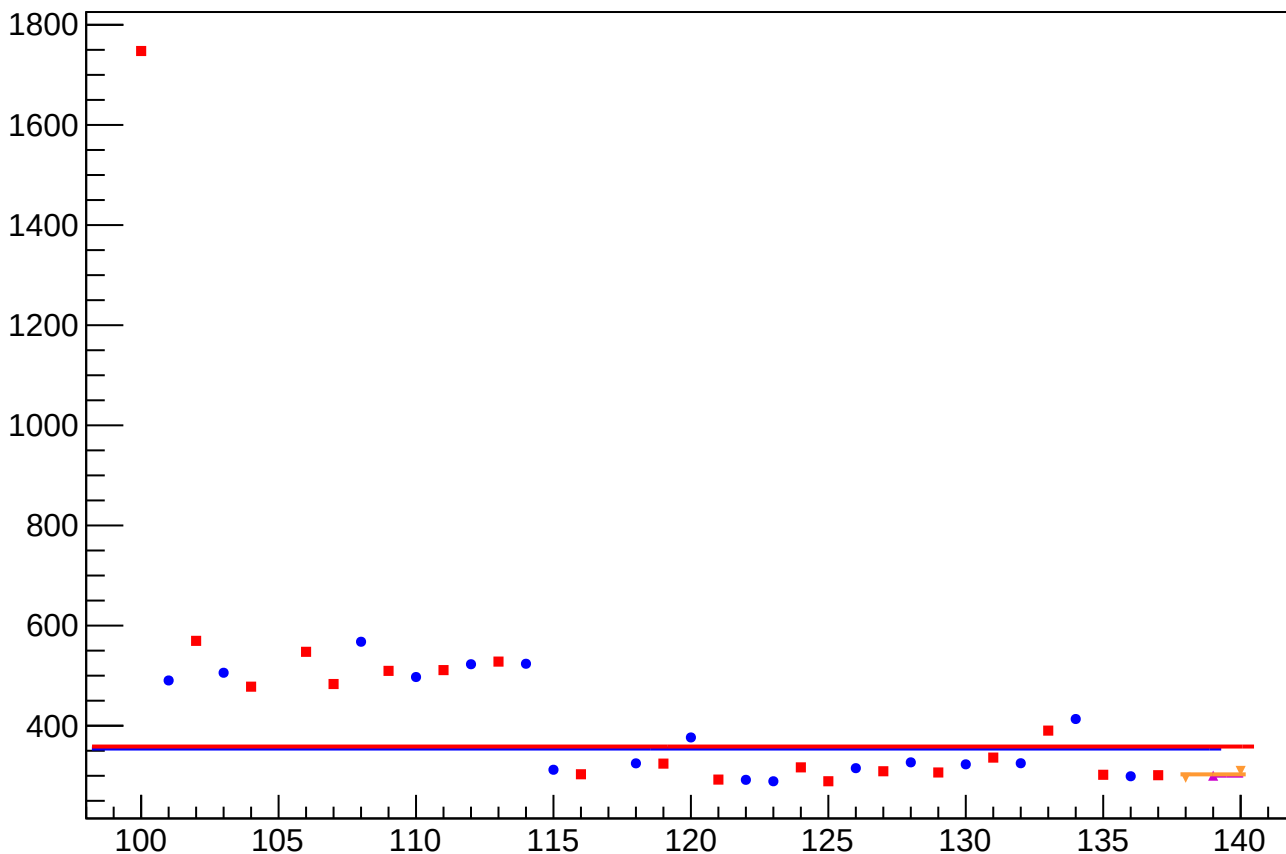
Right: 251.376 $\pm$ 98.698  $\chi^2$ /NDF: 29.5/35

In: 378.304 $\pm$ 129.226  $\chi^2$ /NDF:11.7/17

Out: -0.150 $\pm$ 121.018  $\chi^2$ /NDF:18.1/20

All: 176.676 $\pm$ 88.332  $\chi^2$ /NDF: 34.4/38

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 354.426+/-0.099  $\chi^2/\text{NDF}$ : 636260.3/16

Left Out: 302.858+/-0.173  $\chi^2/\text{NDF}$ :1562.7/1

Right Out: 358.422+/-0.098  $\chi^2/\text{NDF}$ : 879426.8/18

Left In: 300.241+/-0.238  $\chi^2/\text{NDF}$ :0.0/0

Left: 301.951+/-0.140  $\chi^2/\text{NDF}$ : 1641.8/2

Right: 356.435+/-0.070  $\chi^2/\text{NDF}$ : 1516506.7/35

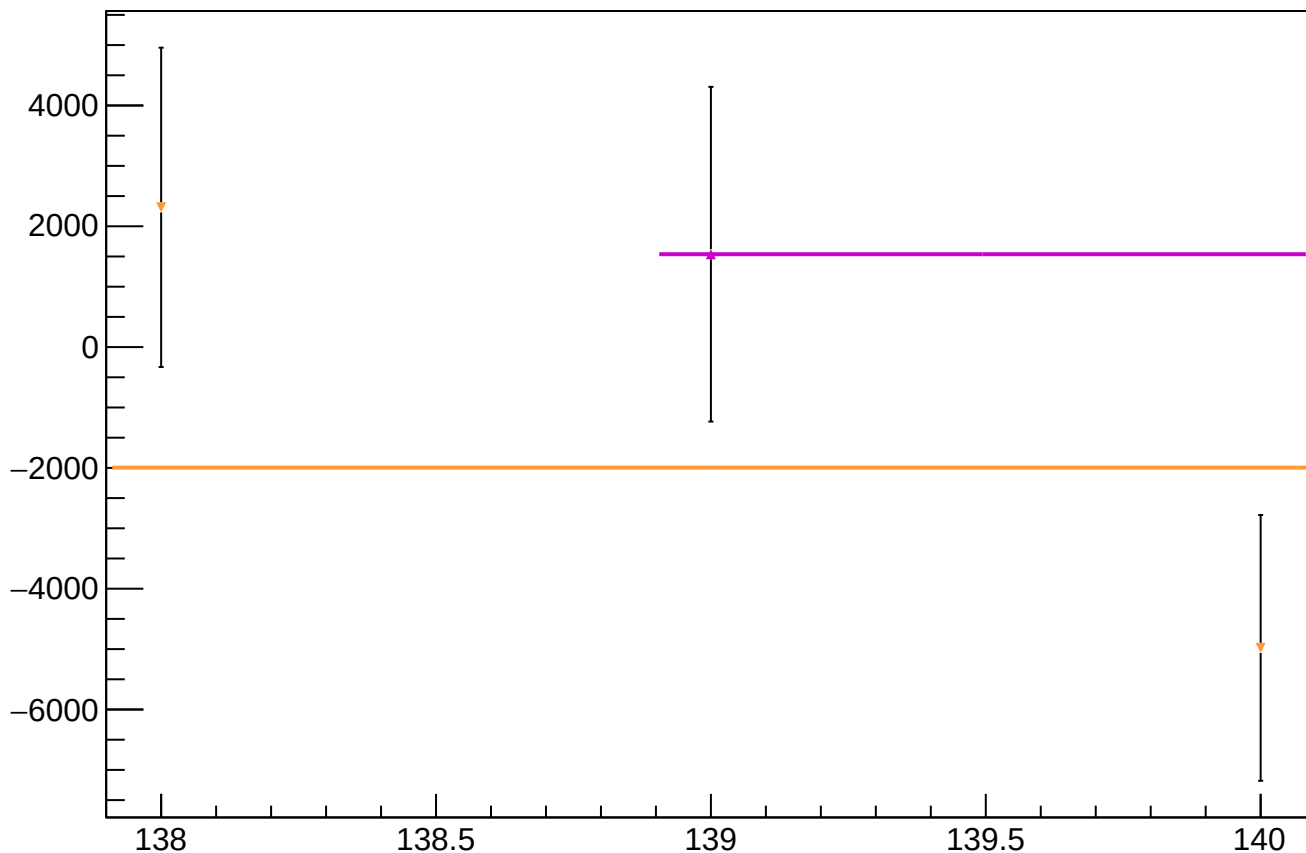
In: 346.426+/-0.091  $\chi^2/\text{NDF}$ :680511.1/17

Out: 344.860+/-0.086  $\chi^2/\text{NDF}$ :958778.6/20

All: 345.592+/-0.062  $\chi^2/\text{NDF}$ : 1639446.2/38



asym\_sam2\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1995.580+/-1691.111  $\chi^2/\text{NDF}$ : 4.5/1

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

Left In: 1537.697+/-2770.956  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1036.706+/-1443.516  $\chi^2/\text{NDF}$ : 5.7/2

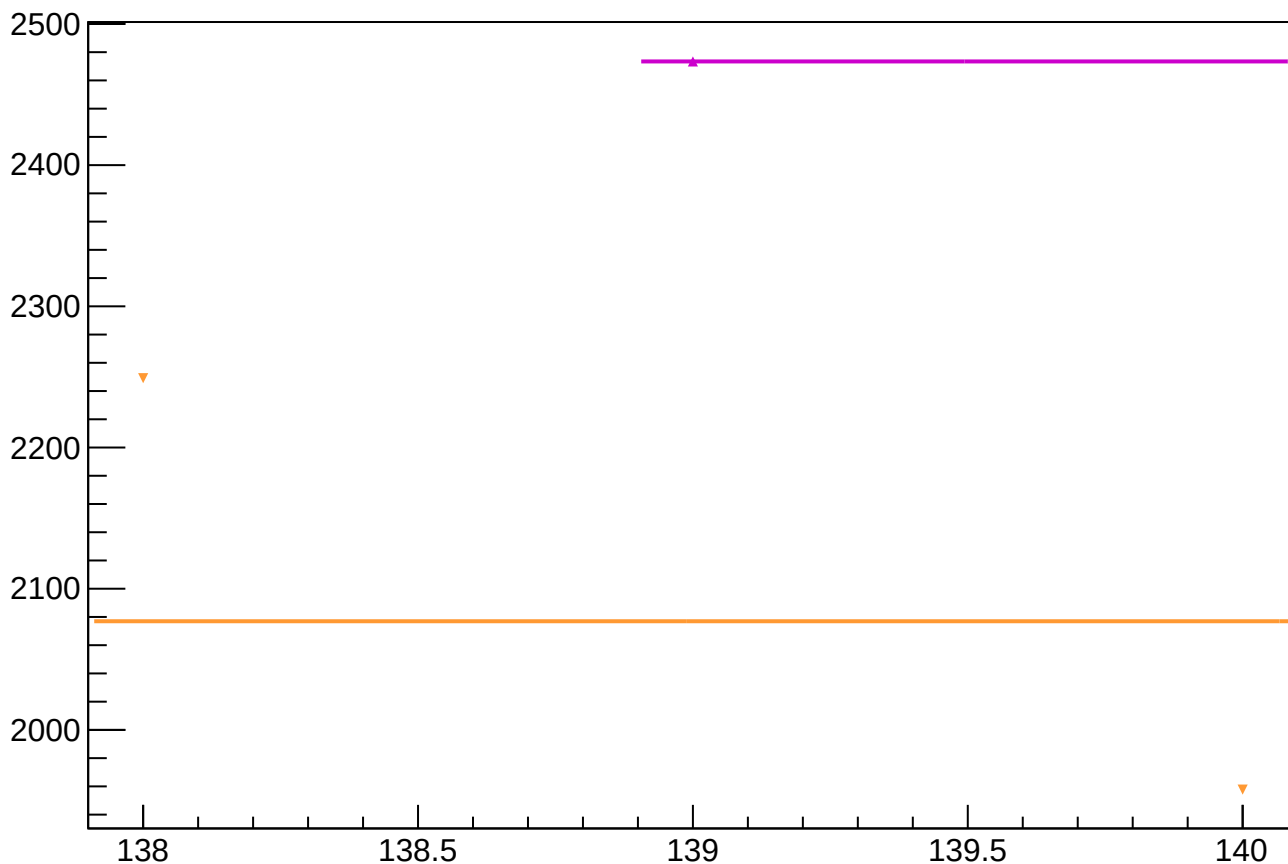
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1537.697+/-2770.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: -1995.580+/-1691.111  $\chi^2/\text{NDF}$ : 4.5/1

All: -1036.706+/-1443.516  $\chi^2/\text{NDF}$ : 5.7/2

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2076.960+/-1.196  $\chi^2/\text{NDF}$ :14354.8/1

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

Left In: 2473.442+/-1.959  $\chi^2/\text{NDF}$ :0.0/0

Left: 2184.559+/-1.021  $\chi^2/\text{NDF}$ : 44189.1/2

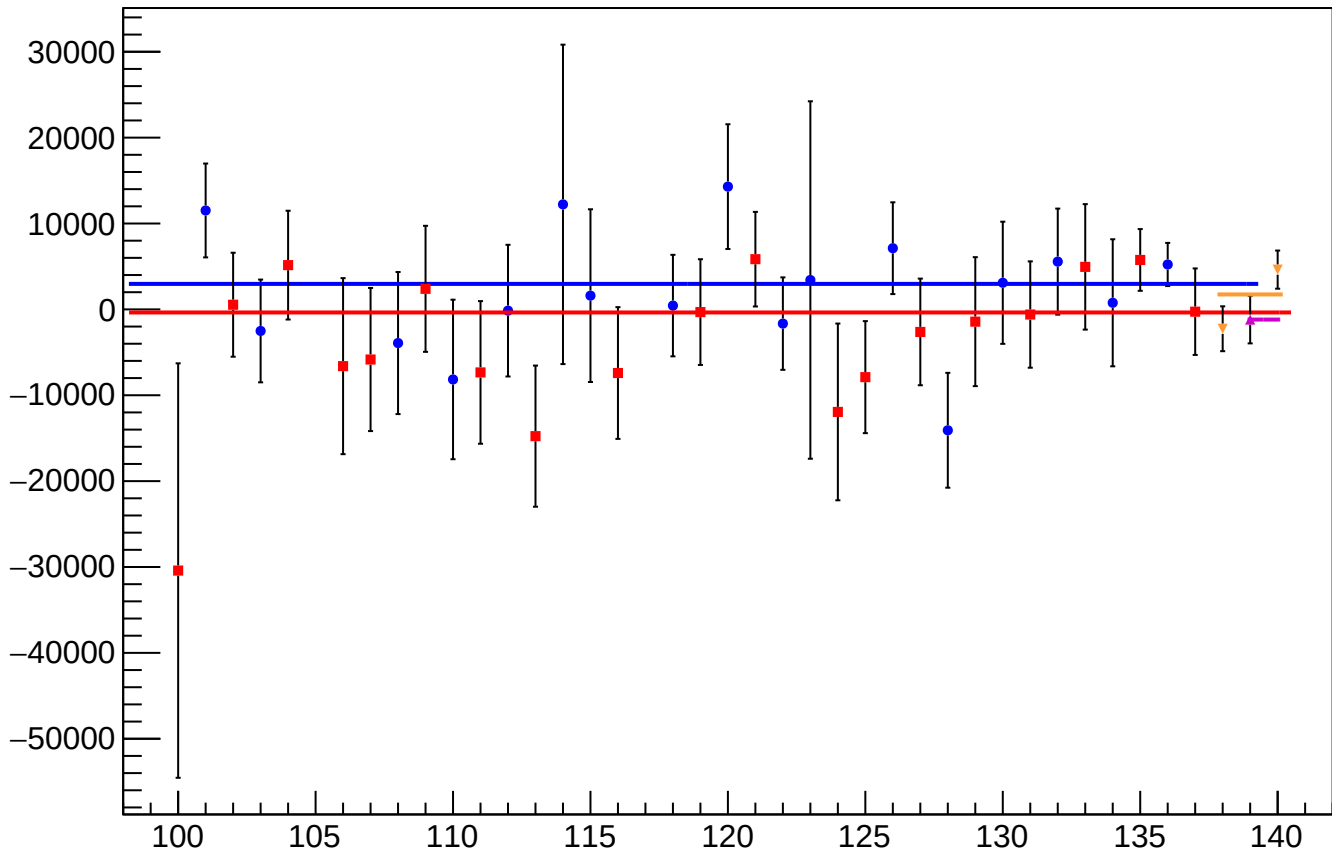
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2473.442+/-1.959  $\chi^2/\text{NDF}$ :0.0/0

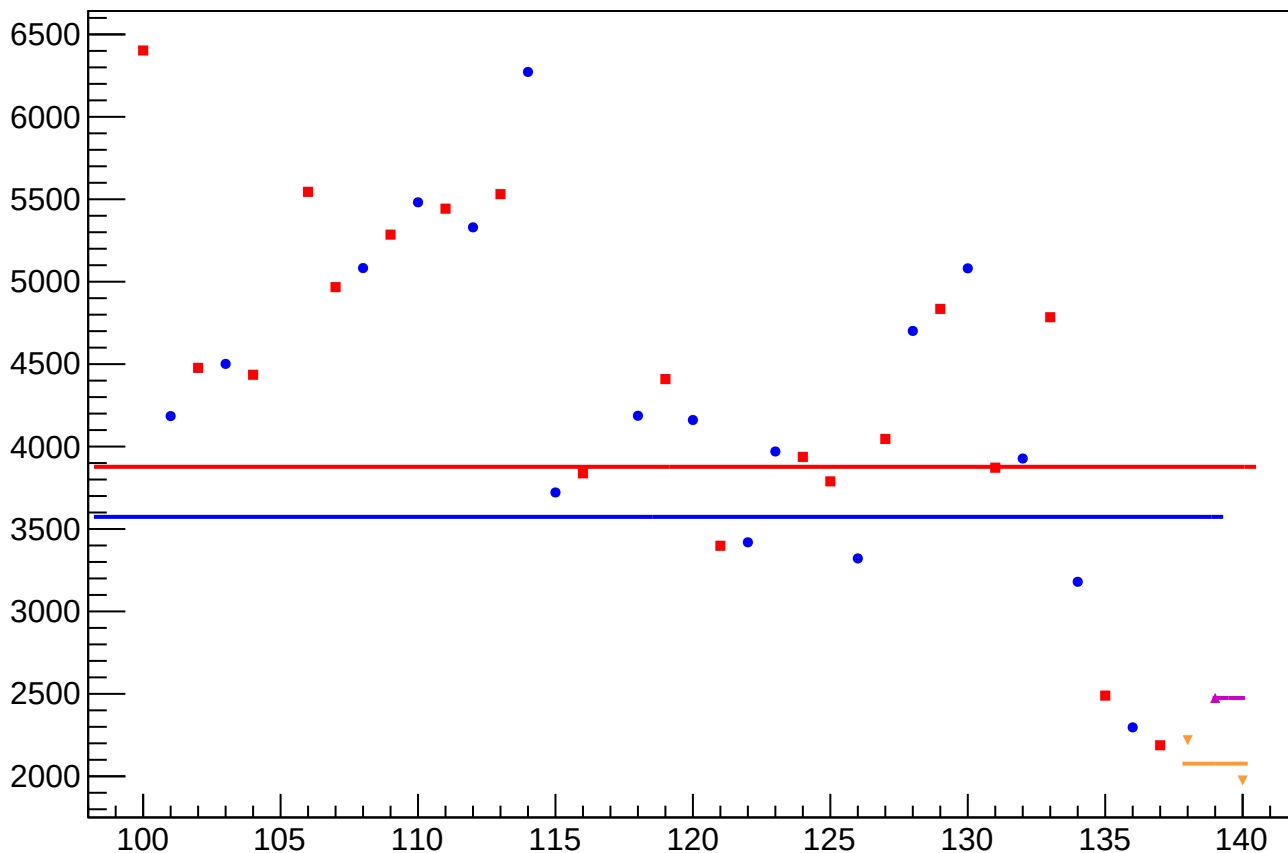
Out: 2076.960+/-1.196  $\chi^2/\text{NDF}$ :14354.8/1

All: 2184.559+/-1.021  $\chi^2/\text{NDF}$ : 44189.1/2

# asym\_sam2\_mean vs Slug, Sign Corrected



# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3573.470+/-1.019  $\chi^2/\text{NDF}$ : 1088731.5/16

Left Out: 2076.699+/-1.196  $\chi^2/\text{NDF}$ : 10159.4/1

Right Out: 3876.914+/-1.066  $\chi^2/\text{NDF}$ : 988409.8/18

Left In: 2475.171+/-1.961  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2184.793+/-1.021  $\chi^2/\text{NDF}$ : 40254.4/2

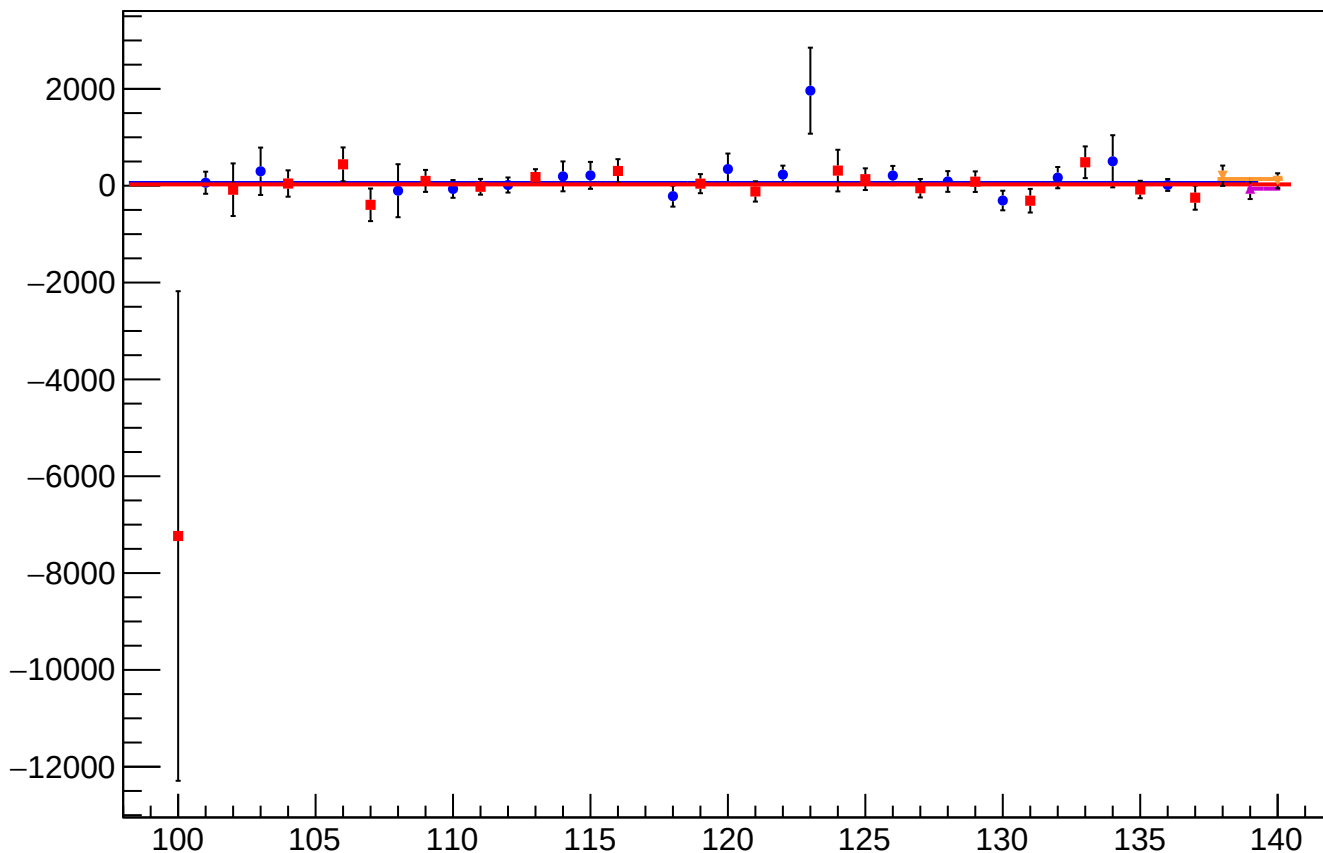
Right: 3718.342+/-0.736  $\chi^2/\text{NDF}$ : 2119512.7/35

In: 3340.075+/-0.904  $\chi^2/\text{NDF}$ : 1335802.6/17

Out: 3080.461+/-0.796  $\chi^2/\text{NDF}$ : 2261126.7/20

All: 3193.814+/-0.597  $\chi^2/\text{NDF}$ : 3643404.5/38

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 56.595+/-53.880  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 138.707+/-125.157  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 27.299+/-54.033  $\chi^2/\text{NDF}$ : 14.3/18

Left In: -61.080+/-214.371  $\chi^2/\text{NDF}$ : 0.0/0

Left: 87.919+/-108.085  $\chi^2/\text{NDF}$ : 0.8/2

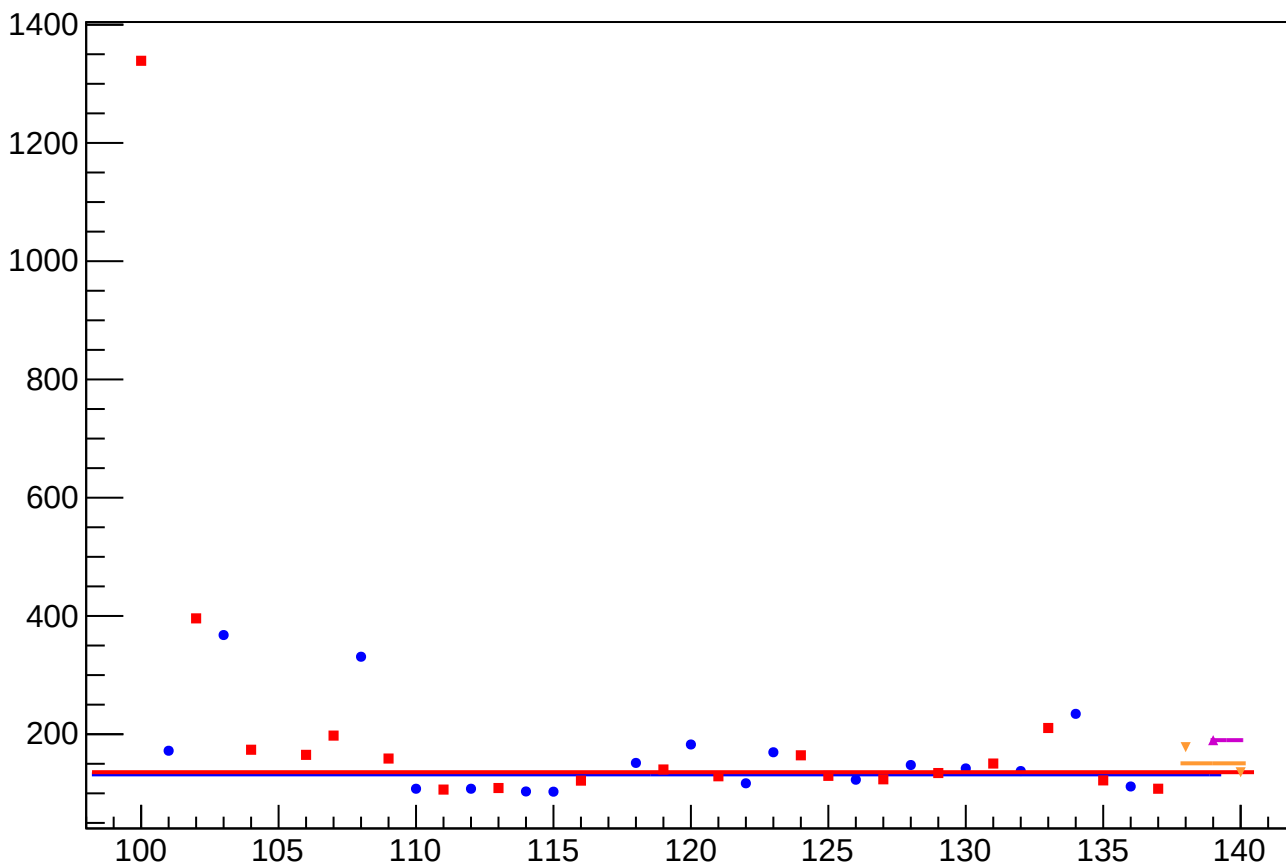
Right: 41.988+/-38.153  $\chi^2/\text{NDF}$ : 28.5/35

In: 49.602+/-52.255  $\chi^2/\text{NDF}$ : 14.4/17

Out: 44.801+/-49.607  $\chi^2/\text{NDF}$ : 15.1/20

All: 47.077+/-35.977  $\chi^2/\text{NDF}$ : 29.5/38

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 132.104 $\pm$ 0.038  $\chi^2$ /NDF: 1144612.1/16

Left Out: 150.762 $\pm$ 0.088  $\chi^2$ /NDF: 52831.4/1

Right Out: 135.773 $\pm$ 0.038  $\chi^2$ /NDF: 1009635.6/18

Left In: 189.963 $\pm$ 0.152  $\chi^2$ /NDF: 0.0/0

Left: 160.727 $\pm$ 0.076  $\chi^2$ /NDF: 102710.5/2

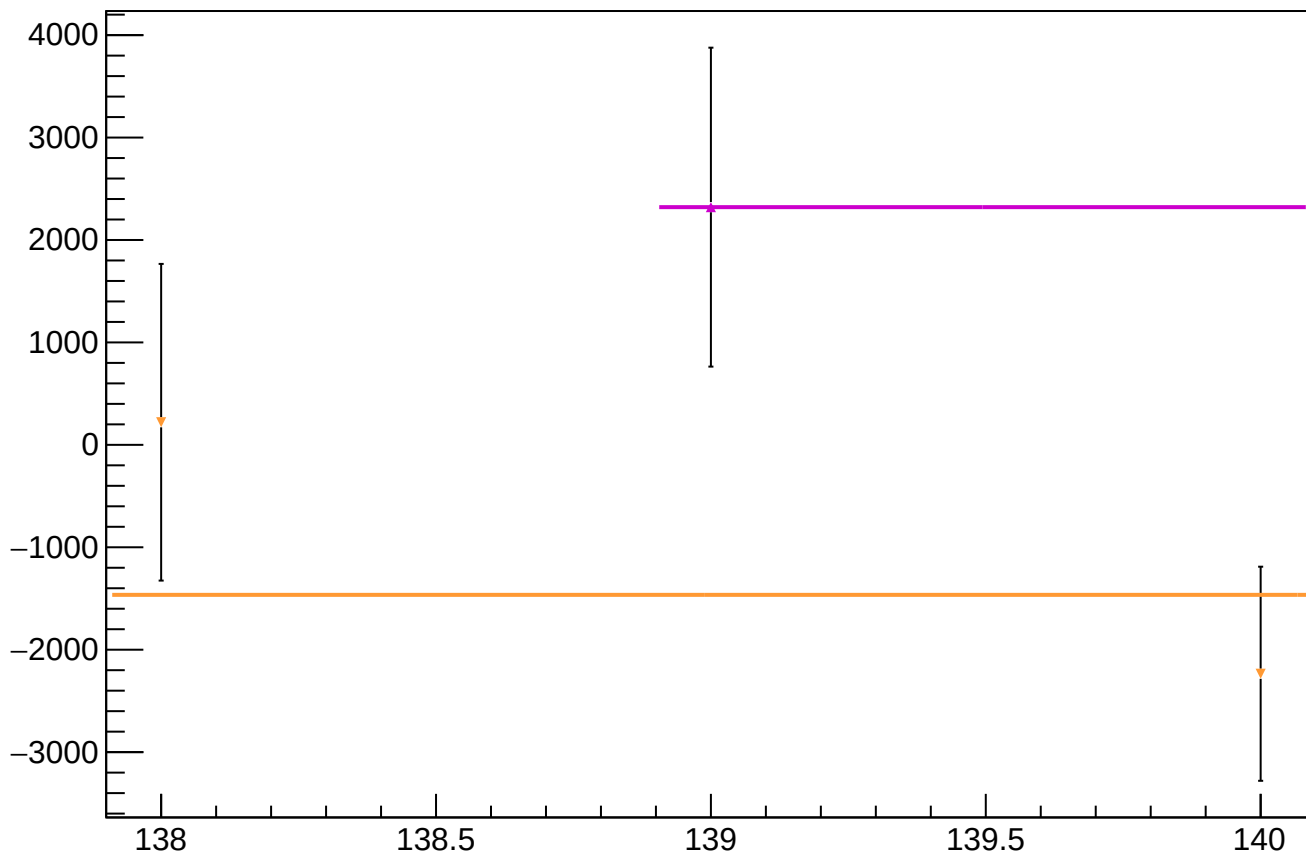
Right: 133.933 $\pm$ 0.027  $\chi^2$ /NDF: 2158872.4/35

In: 135.542 $\pm$ 0.037  $\chi^2$ /NDF: 1281653.1/17

Out: 138.128 $\pm$ 0.035  $\chi^2$ /NDF: 1086646.3/20

All: 136.902 $\pm$ 0.025  $\chi^2$ /NDF: 2370876.1/38

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1464.463+/-865.814  $\chi^2/\text{NDF}$ : 1.7/1

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

Left In: 2320.670+/-1556.885  $\chi^2/\text{NDF}$ : 0.0/0

Left: -570.357+/-756.677  $\chi^2/\text{NDF}$ : 6.2/2

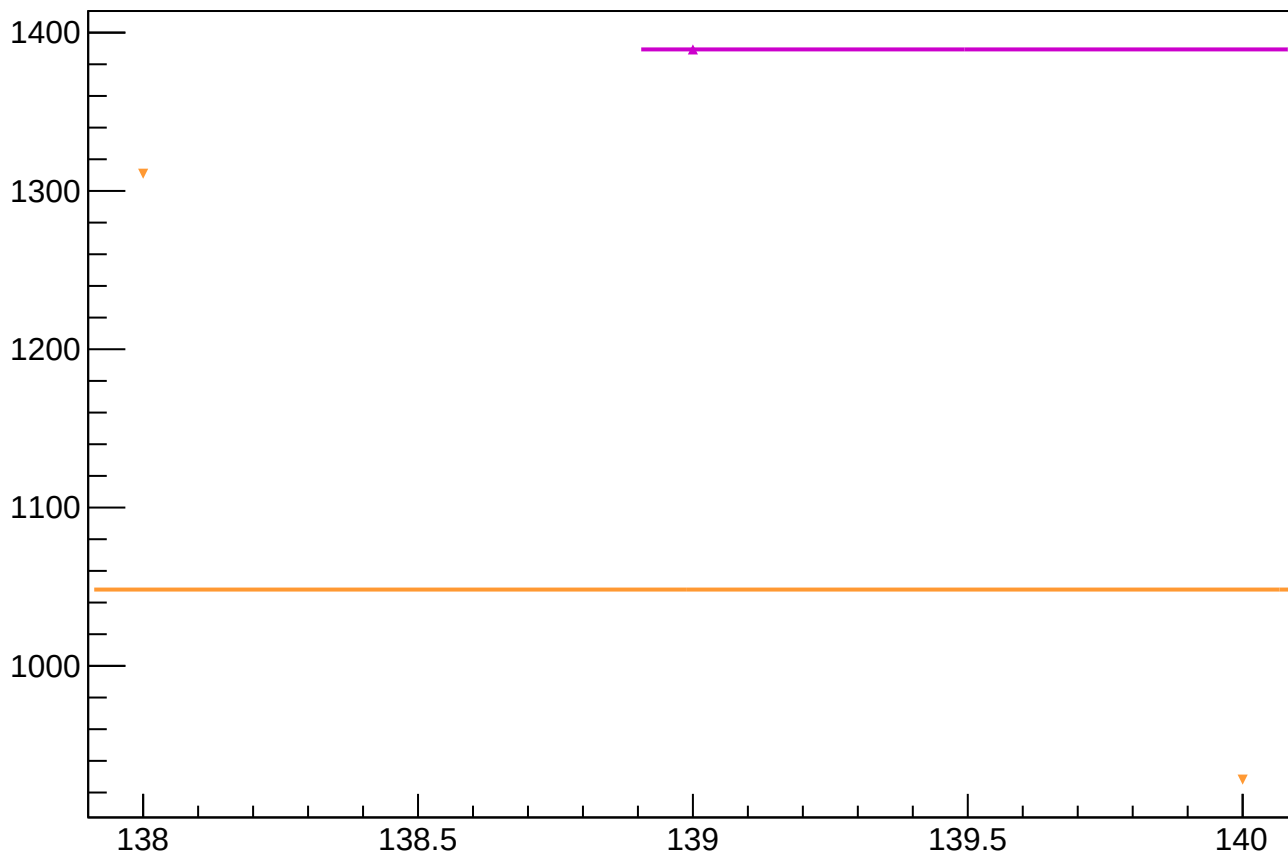
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2320.670+/-1556.885  $\chi^2/\text{NDF}$ : 0.0/0

Out: -1464.463+/-865.814  $\chi^2/\text{NDF}$ : 1.7/1

All: -570.357+/-756.677  $\chi^2/\text{NDF}$ : 6.2/2

# asym\_sam3\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1048.204+/-0.612  $\chi^2/\text{NDF}$ :84134.2/1

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

Left In: 1389.393+/-1.101  $\chi^2/\text{NDF}$ :0.0/0

Left: 1128.798+/-0.535  $\chi^2/\text{NDF}$ : 157497.4/2

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

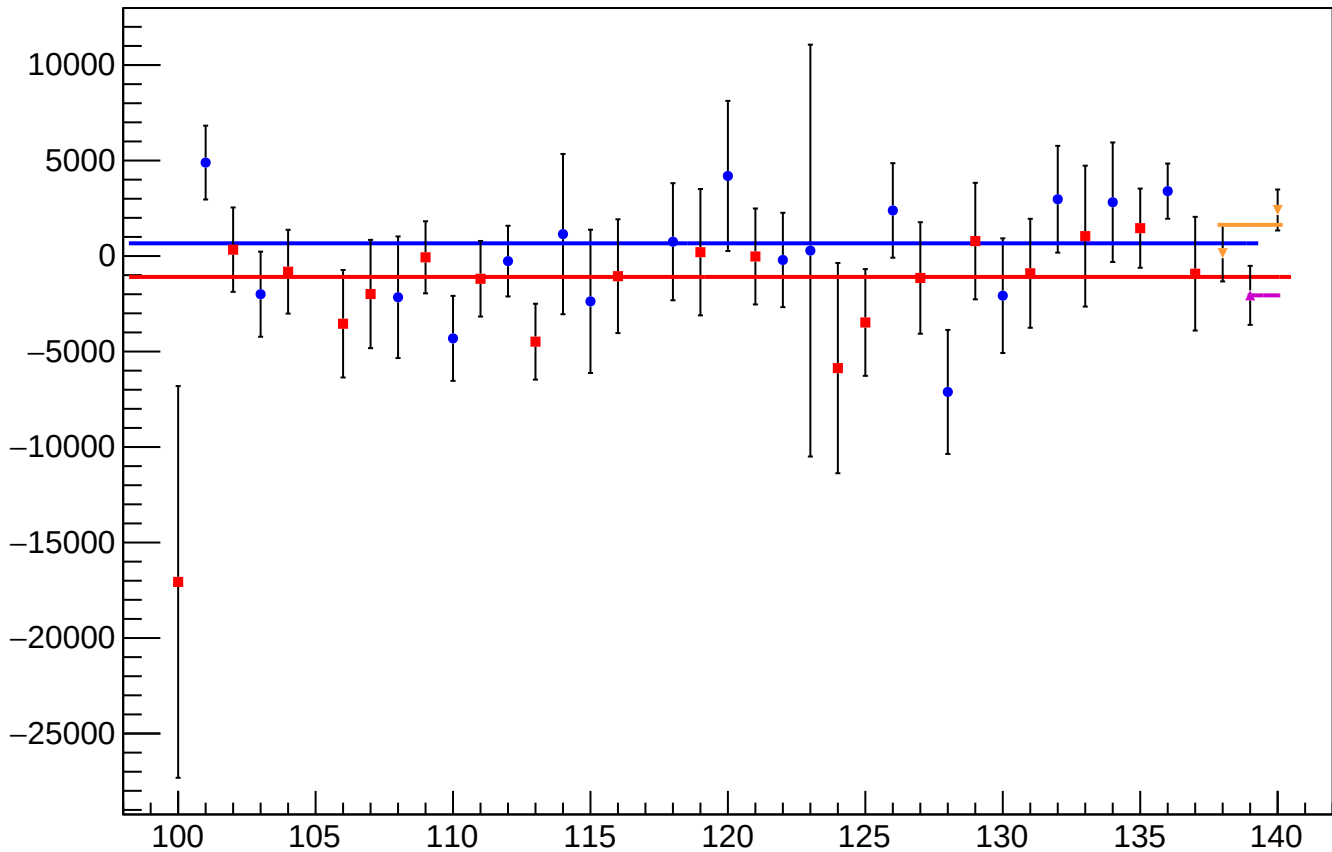
In: 1389.393+/-1.101  $\chi^2/\text{NDF}$ :0.0/0

Out: 1048.204+/-0.612  $\chi^2/\text{NDF}$ :84134.2/1

All: 1128.798+/-0.535  $\chi^2/\text{NDF}$ : 157497.4/2



# asym\_sam3\_mean vs Slug, Sign Corrected



Right In:  $666.453 \pm 618.839$   $\chi^2/\text{NDF}$ : 25.6/16

Left Out:  $1632.356 \pm 868.282$   $\chi^2/\text{NDF}$ : 1.5/1

Right Out:  $-1094.278 \pm 602.639$   $\chi^2/\text{NDF}$ : 11.0/18

Left In:  $-2058.733 \pm 1543.896$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $745.427 \pm 756.807$   $\chi^2/\text{NDF}$ : 5.9/2

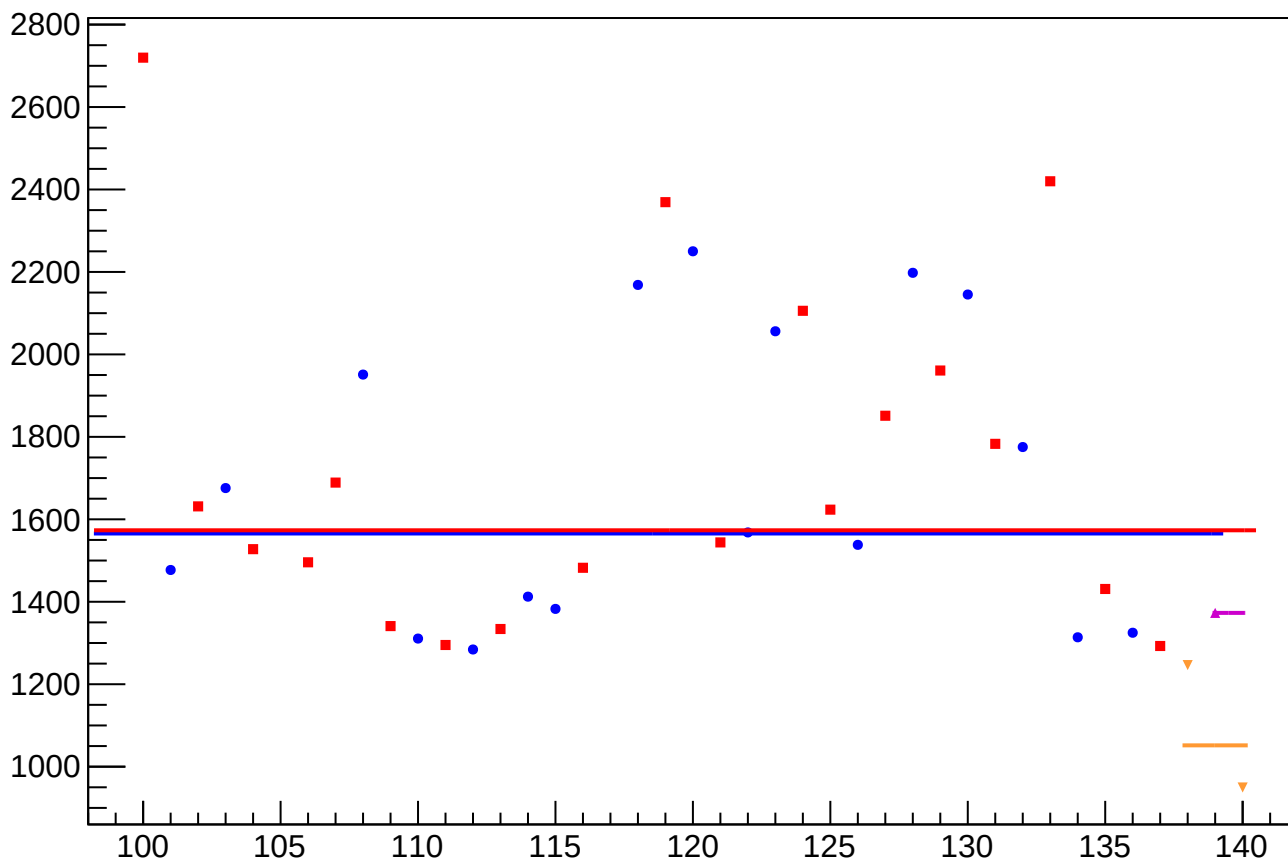
Right:  $-237.260 \pm 431.744$   $\chi^2/\text{NDF}$ : 40.8/35

In:  $289.221 \pm 574.413$   $\chi^2/\text{NDF}$ : 28.3/17

Out:  $-207.828 \pm 495.079$   $\chi^2/\text{NDF}$ : 19.2/20

All:  $4.027 \pm 375.012$   $\chi^2/\text{NDF}$ : 47.9/38

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1565.623+/-0.438  $\chi^2/\text{NDF}$ : 490790.2/16

Left Out: 1051.725+/-0.614  $\chi^2/\text{NDF}$ : 52776.5/1

Right Out: 1573.366+/-0.426  $\chi^2/\text{NDF}$ : 462040.3/18

Left In: 1373.026+/-1.092  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1128.930+/-0.535  $\chi^2/\text{NDF}$ : 118582.7/2

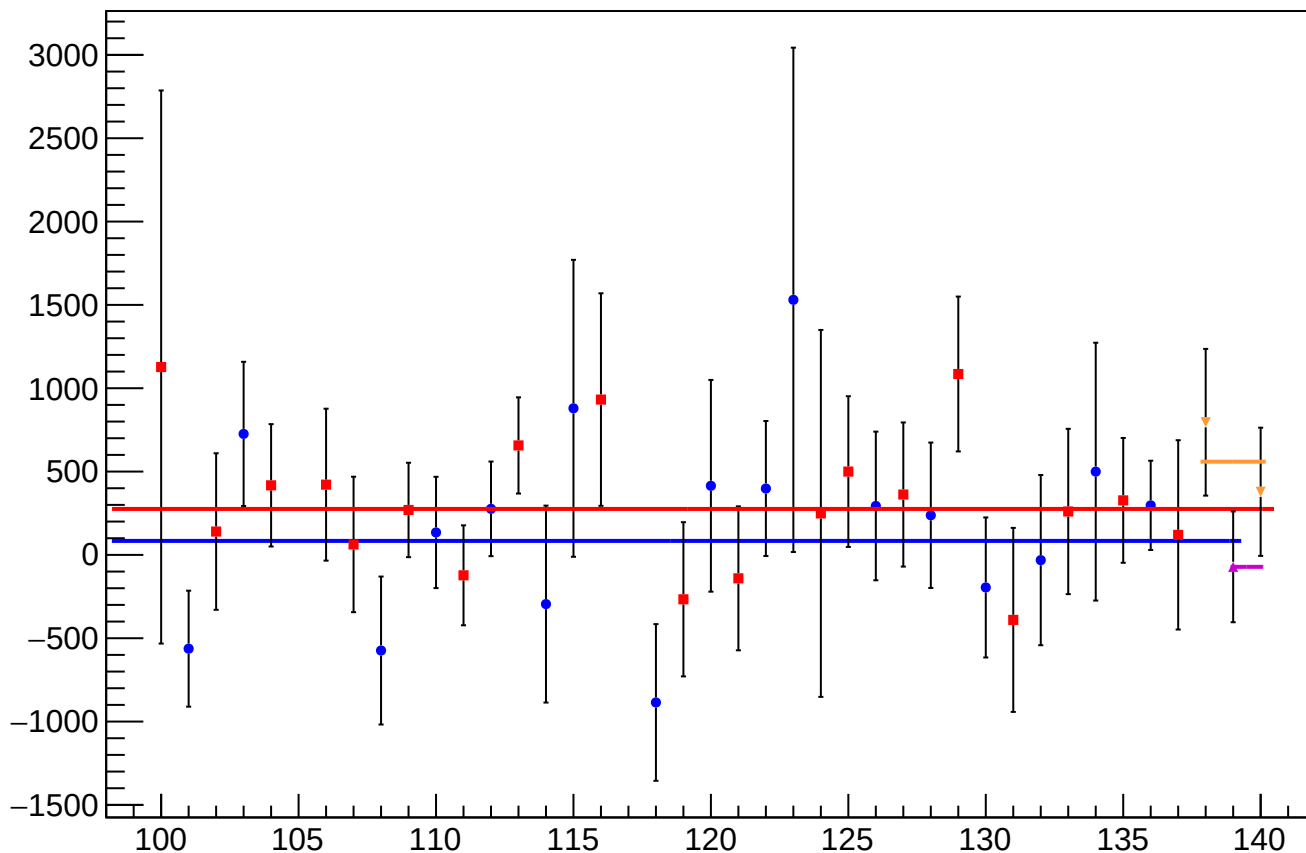
Right: 1569.597+/-0.305  $\chi^2/\text{NDF}$ : 952991.2/35

In: 1538.963+/-0.406  $\chi^2/\text{NDF}$ : 517605.6/17

Out: 1403.776+/-0.350  $\chi^2/\text{NDF}$ : 1001991.6/20

All: 1461.396+/-0.265  $\chi^2/\text{NDF}$ : 1583157.9/38

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 83.935 $\pm$ 103.619  $\chi^2$ /NDF: 17.3/16

Left Out: 559.330 $\pm$ 289.670  $\chi^2$ /NDF:0.5/1

Right Out: 275.803 $\pm$ 97.798  $\chi^2$ /NDF: 12.6/18

Left In: -71.688 $\pm$ 332.353  $\chi^2$ /NDF:0.0/0

Left: 286.918 $\pm$ 218.369  $\chi^2$ /NDF: 2.6/2

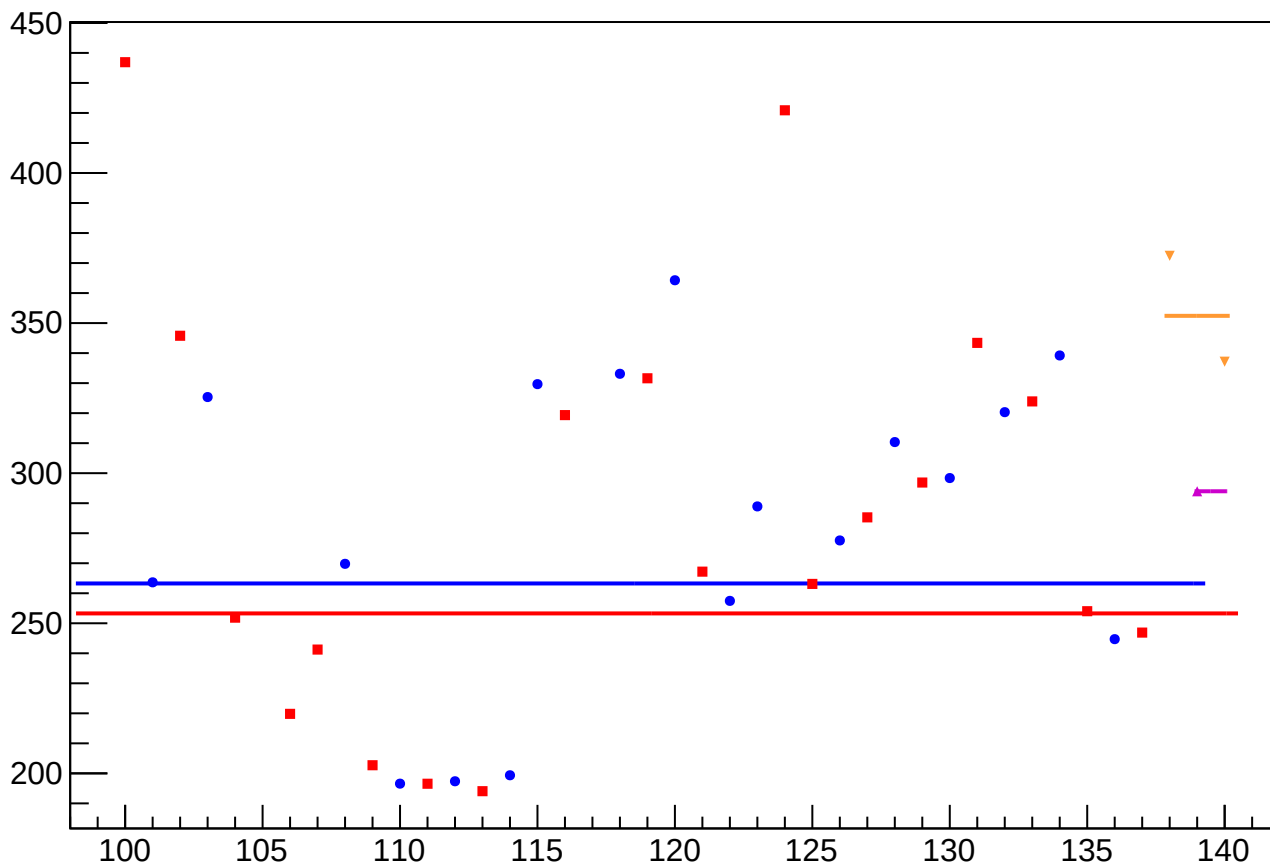
Right: 185.409 $\pm$ 71.122  $\chi^2$ /NDF: 31.8/35

In: 70.148 $\pm$ 98.922  $\chi^2$ /NDF:17.5/17

Out: 304.815 $\pm$ 92.660  $\chi^2$ /NDF:14.0/20

All: 195.144 $\pm$ 67.626  $\chi^2$ /NDF: 34.5/38

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 263.262 $\pm$ 0.073  $\chi^2$ /NDF: 452757.7/16

Left Out: 352.415 $\pm$ 0.205  $\chi^2$ /NDF: 7282.1/1

Right Out: 253.283 $\pm$ 0.069  $\chi^2$ /NDF: 585121.8/18

Left In: 293.973 $\pm$ 0.235  $\chi^2$ /NDF: 0.0/0

Left: 327.185 $\pm$ 0.154  $\chi^2$ /NDF: 42425.7/2

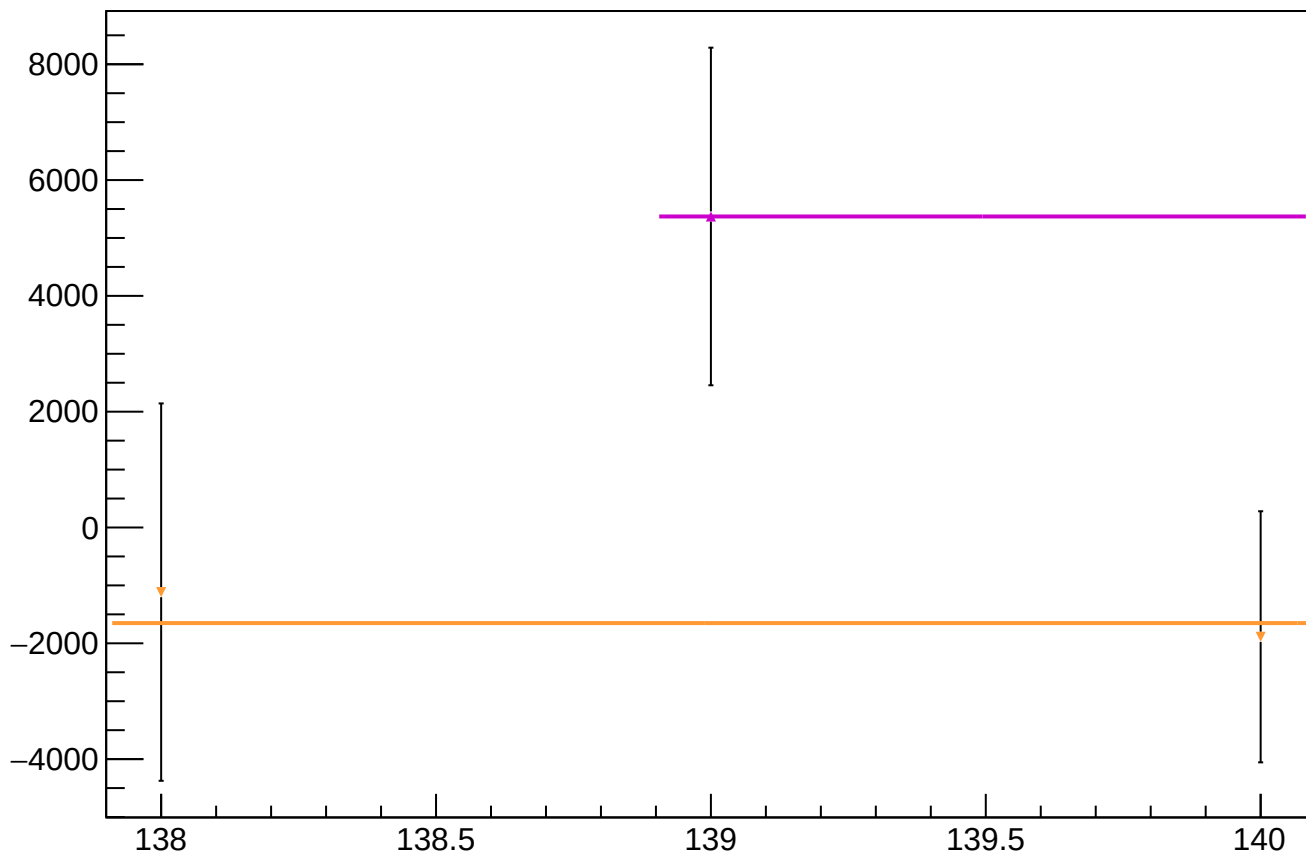
Right: 257.985 $\pm$ 0.050  $\chi^2$ /NDF: 1047690.7/35

In: 265.983 $\pm$ 0.070  $\chi^2$ /NDF: 468322.1/17

Out: 263.426 $\pm$ 0.066  $\chi^2$ /NDF: 802669.1/20

All: 264.621 $\pm$ 0.048  $\chi^2$ /NDF: 1271702.8/38

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1650.844+/-1805.107  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 5371.176+/-2915.161  $\chi^2/\text{NDF}$ : 0.0/0

Left: 295.355+/-1534.706  $\chi^2/\text{NDF}$ : 4.2/2

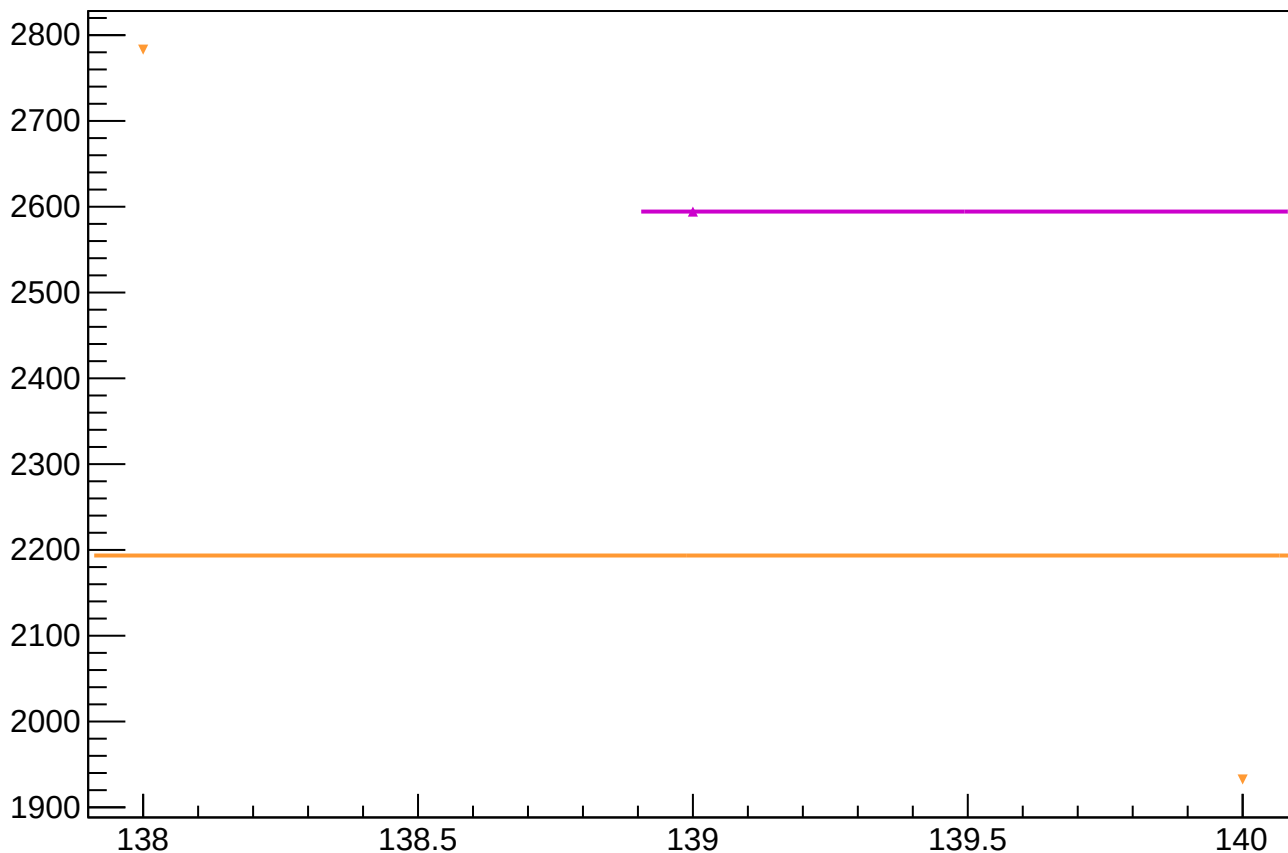
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5371.176+/-2915.161  $\chi^2/\text{NDF}$ : 0.0/0

Out: -1650.844+/-1805.107  $\chi^2/\text{NDF}$ : 0.0/1

All: 295.355+/-1534.706  $\chi^2/\text{NDF}$ : 4.2/2

# asym\_sam4\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 2193.488+/-1.276  $\chi^2/\text{NDF}$ :94471.8/1

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

Left In: 2594.367+/-2.061  $\chi^2/\text{NDF}$ :0.0/0

Left: 2304.595+/-1.085  $\chi^2/\text{NDF}$ : 121810.4/2

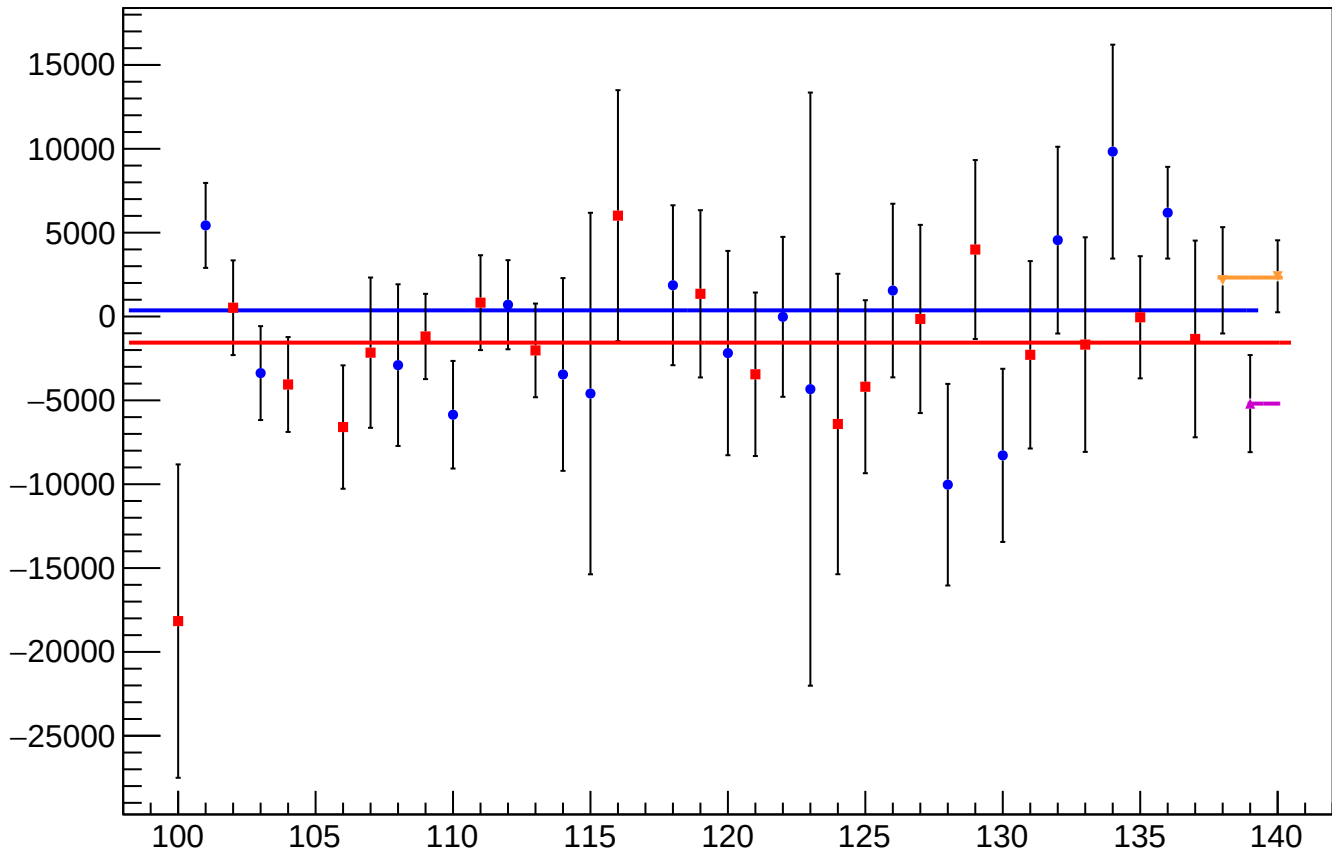
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2594.367+/-2.061  $\chi^2/\text{NDF}$ :0.0/0

Out: 2193.488+/-1.276  $\chi^2/\text{NDF}$ :94471.8/1

All: 2304.595+/-1.085  $\chi^2/\text{NDF}$ : 121810.4/2

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 366.454+/-992.480  $\chi^2/\text{NDF}$ : 24.2/16

Left Out: 2323.401+/-1777.263  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: -1557.388+/-924.003  $\chi^2/\text{NDF}$ : 10.5/18

Left In: -5194.009+/-2894.994  $\chi^2/\text{NDF}$ : 0.0/0

Left: 265.717+/-1514.617  $\chi^2/\text{NDF}$ : 4.9/2

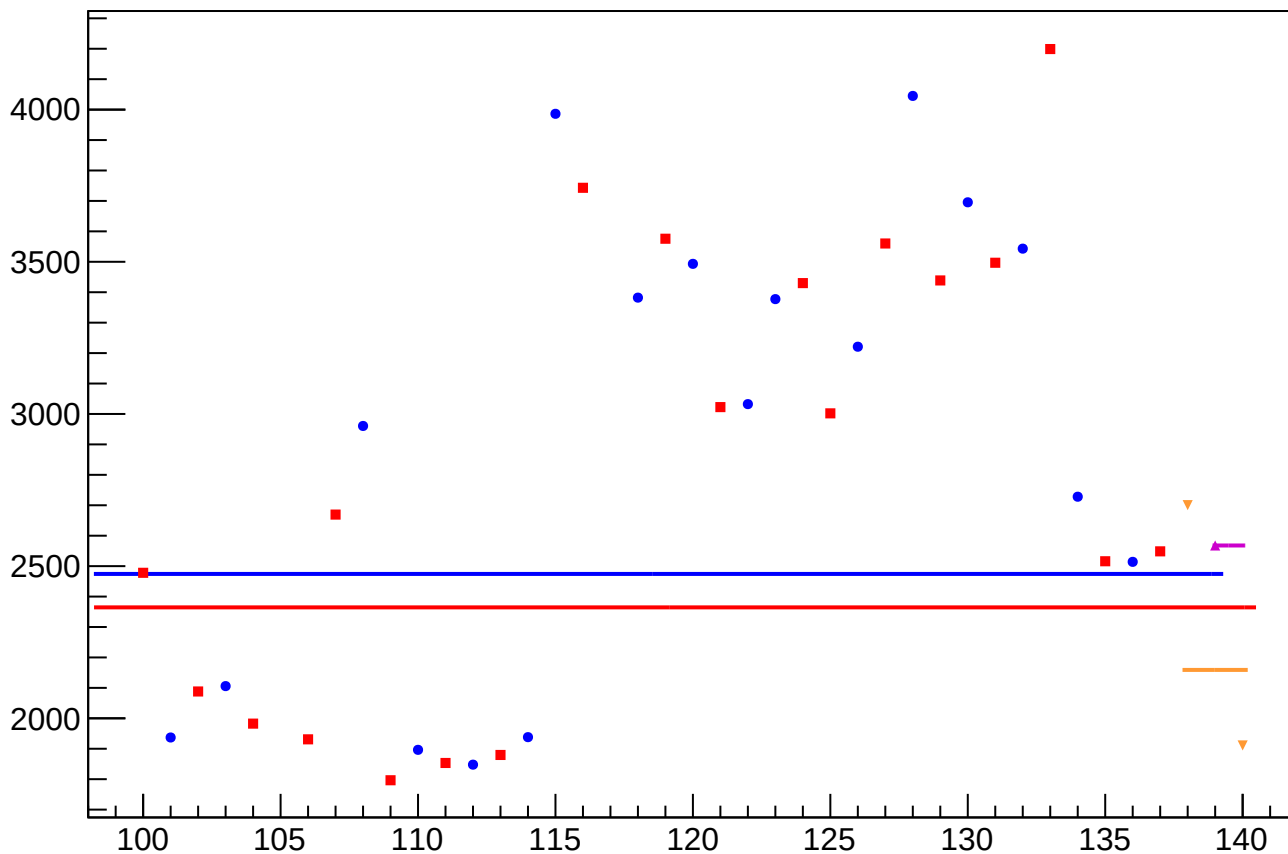
Right: -664.120+/-676.282  $\chi^2/\text{NDF}$ : 36.7/35

In: -218.336+/-938.842  $\chi^2/\text{NDF}$ : 27.5/17

Out: -731.621+/-819.824  $\chi^2/\text{NDF}$ : 14.3/20

All: -509.557+/-617.522  $\chi^2/\text{NDF}$ : 41.9/38

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2474.389+/-0.702  $\chi^2/\text{NDF}$ : 906262.1/16

Left Out: 2159.010+/-1.257  $\chi^2/\text{NDF}$ : 85061.2/1

Right Out: 2364.507+/-0.653  $\chi^2/\text{NDF}$ : 1023402.8/18

Left In: 2567.849+/-2.047  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2270.919+/-1.071  $\chi^2/\text{NDF}$ : 114030.7/2

Right: 2415.527+/-0.478  $\chi^2/\text{NDF}$ : 1942797.3/35

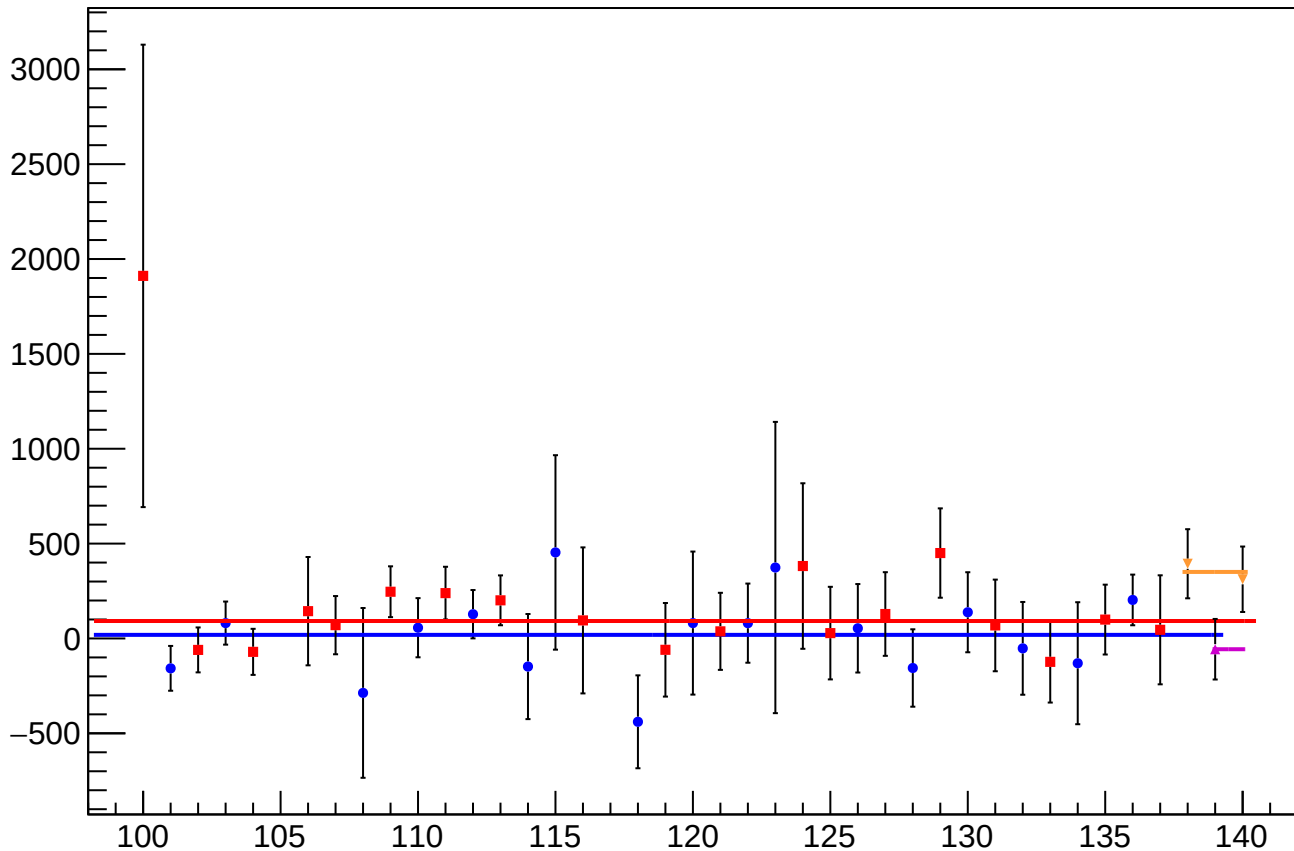
In: 2484.218+/-0.664  $\chi^2/\text{NDF}$ : 908127.3/17

Out: 2320.781+/-0.580  $\chi^2/\text{NDF}$ : 1129513.0/20

All: 2391.489+/-0.437  $\chi^2/\text{NDF}$ : 2072028.5/38



# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 18.930+/-46.147  $\chi^2/\text{NDF}$ : 12.0/16

Left Out: 350.658+/-125.238  $\chi^2/\text{NDF}$ : 0.1/1

Right Out: 91.993+/-42.693  $\chi^2/\text{NDF}$ : 13.2/18

Left In: -56.761+/-159.601  $\chi^2/\text{NDF}$ : 0.0/0

Left: 195.393+/-98.526  $\chi^2/\text{NDF}$ : 4.1/2

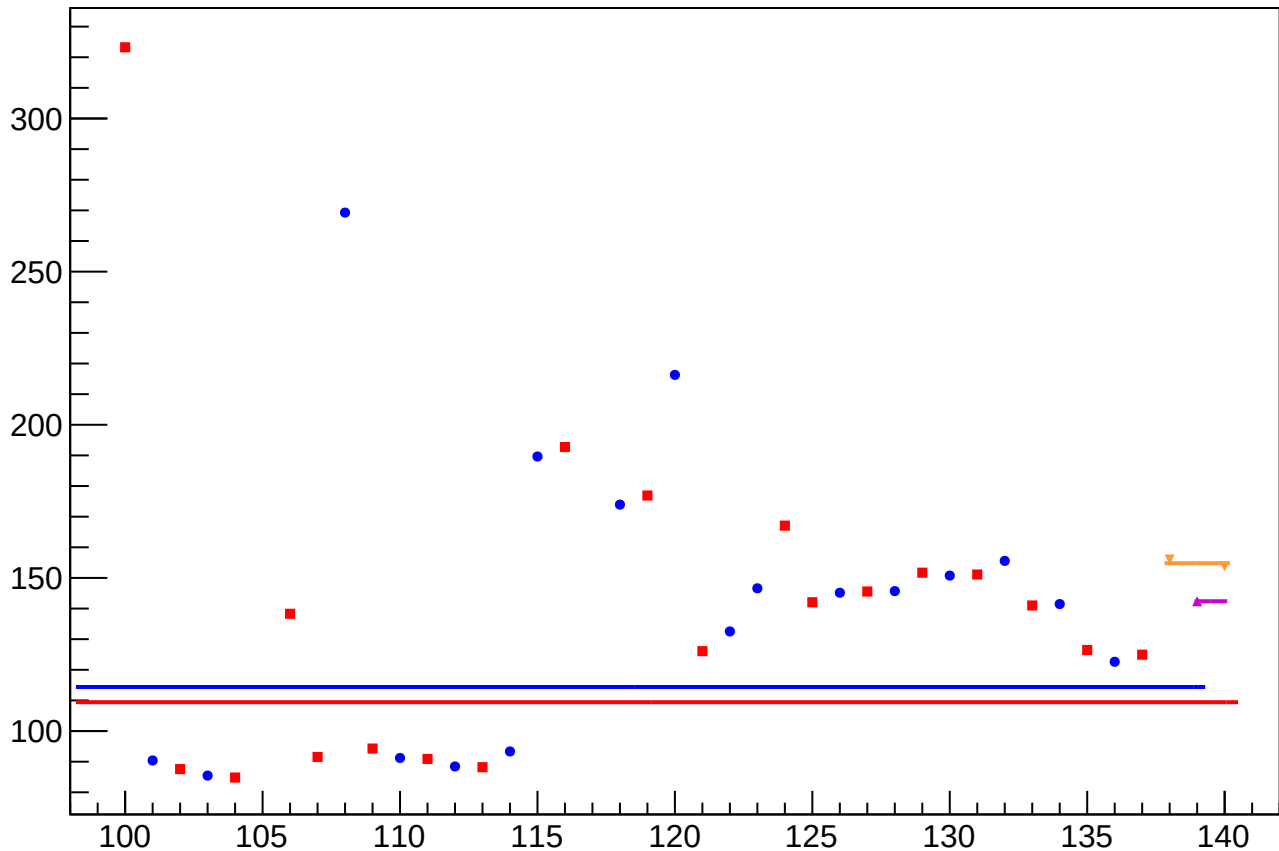
Right: 58.298+/-31.339  $\chi^2/\text{NDF}$ : 26.5/35

In: 13.090+/-44.331  $\chi^2/\text{NDF}$ : 12.2/17

Out: 118.923+/-40.410  $\chi^2/\text{NDF}$ : 17.1/20

All: 70.894+/-29.864  $\chi^2/\text{NDF}$ : 32.4/38

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 114.391 $\pm$ 0.033  $\chi^2$ /NDF: 1136702.0/16

Left Out: 154.804 $\pm$ 0.089  $\chi^2$ /NDF:161.5/1

Right Out: 109.428 $\pm$ 0.030  $\chi^2$ /NDF: 944386.0/18

Left In: 142.390 $\pm$ 0.113  $\chi^2$ /NDF:0.0/0

Left: 150.073 $\pm$ 0.070  $\chi^2$ /NDF: 7649.4/2

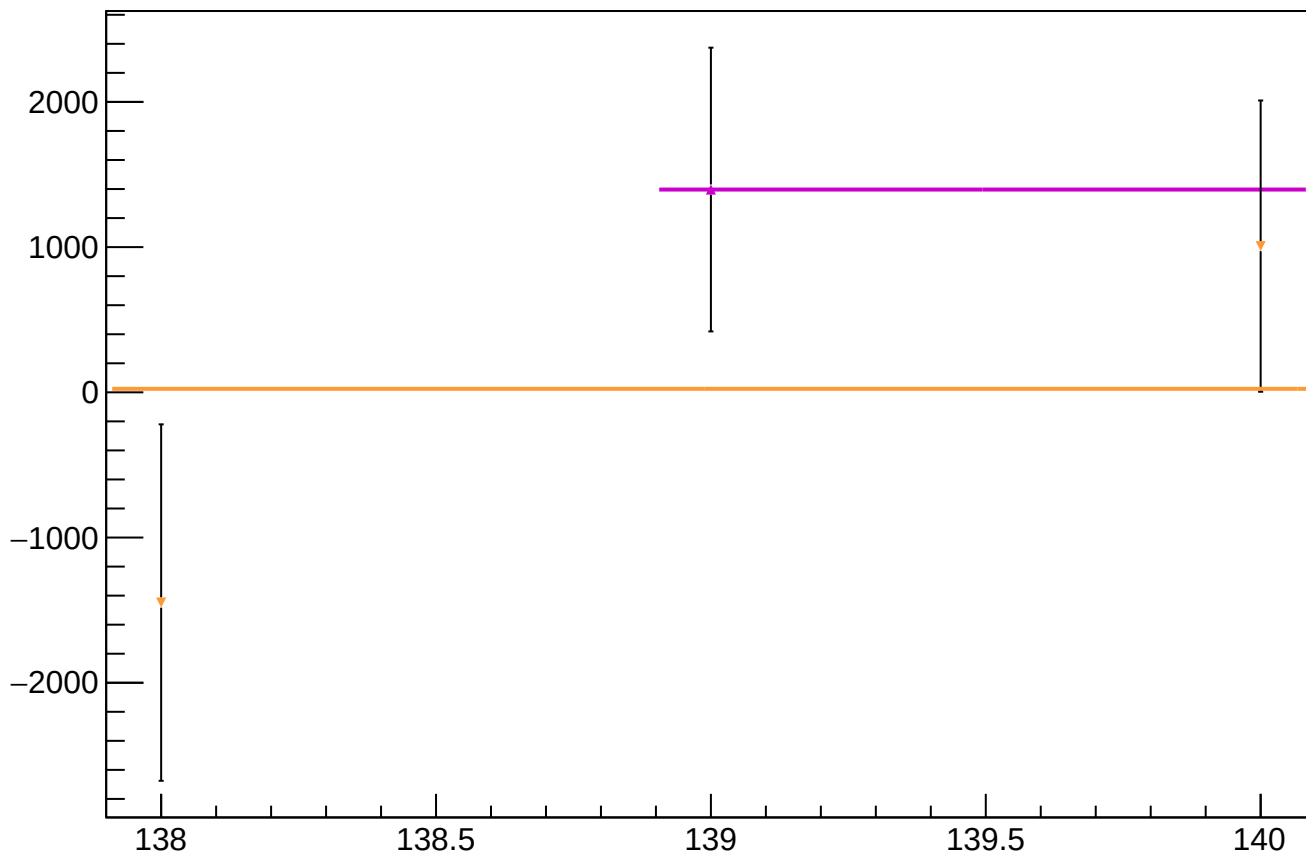
Right: 111.717 $\pm$ 0.022  $\chi^2$ /NDF: 2093555.7/35

In: 116.552 $\pm$ 0.031  $\chi^2$ /NDF:1193506.0/17

Out: 114.152 $\pm$ 0.029  $\chi^2$ /NDF:1179761.3/20

All: 115.241 $\pm$ 0.021  $\chi^2$ /NDF: 2376468.0/38

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 24.220+/-776.575  $\chi^2/\text{NDF}$ : 2.4/1

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

Left In: 1396.490+/-977.029  $\chi^2/\text{NDF}$ : 0.0/0

Left: 555.514+/-607.932  $\chi^2/\text{NDF}$ : 3.6/2

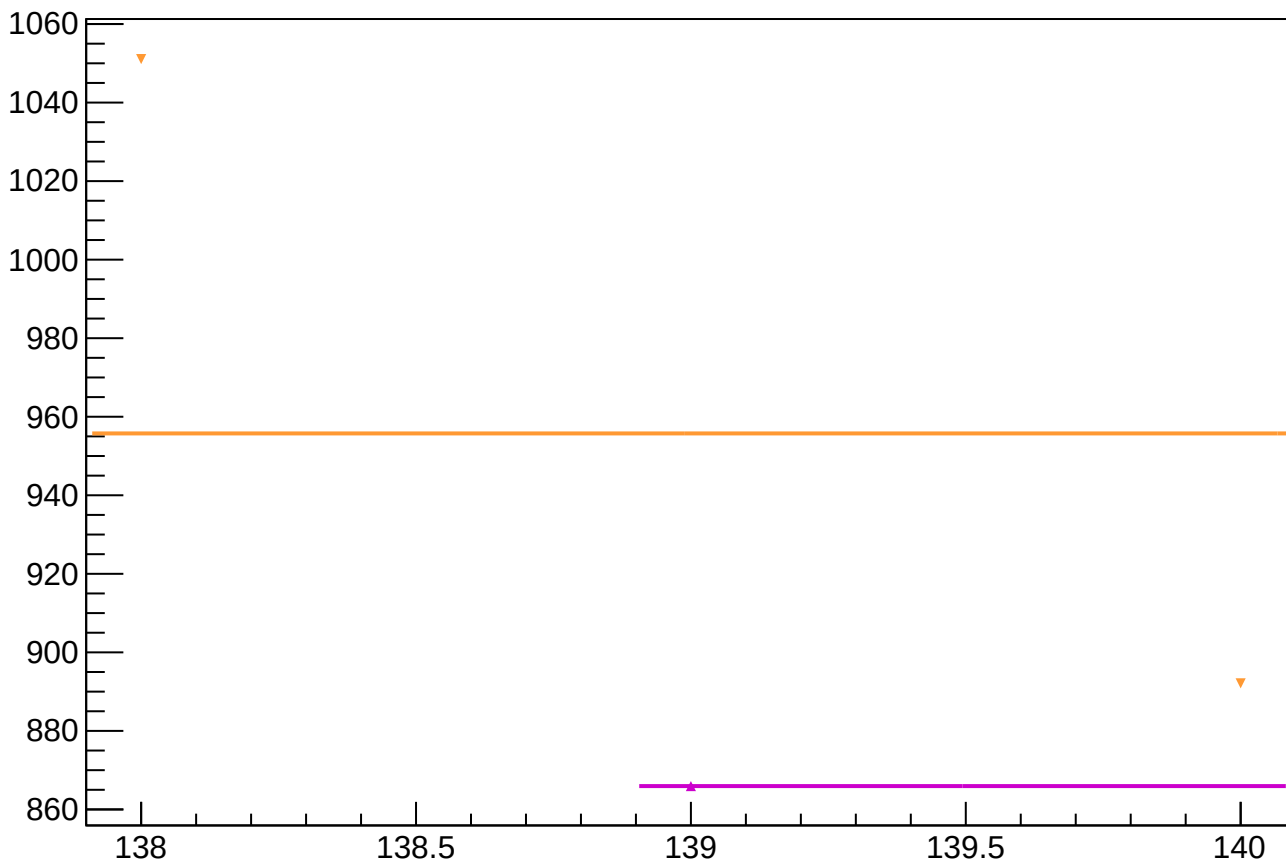
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1396.490+/-977.029  $\chi^2/\text{NDF}$ : 0.0/0

Out: 24.220+/-776.575  $\chi^2/\text{NDF}$ : 2.4/1

All: 555.514+/-607.932  $\chi^2/\text{NDF}$ : 3.6/2

# asym\_sam5\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 955.751+/-0.549  $\chi^2/\text{NDF}$ :20118.5/1

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

Left In: 865.947+/-0.691  $\chi^2/\text{NDF}$ :0.0/0

Left: 920.982+/-0.430  $\chi^2/\text{NDF}$ : 30473.4/2

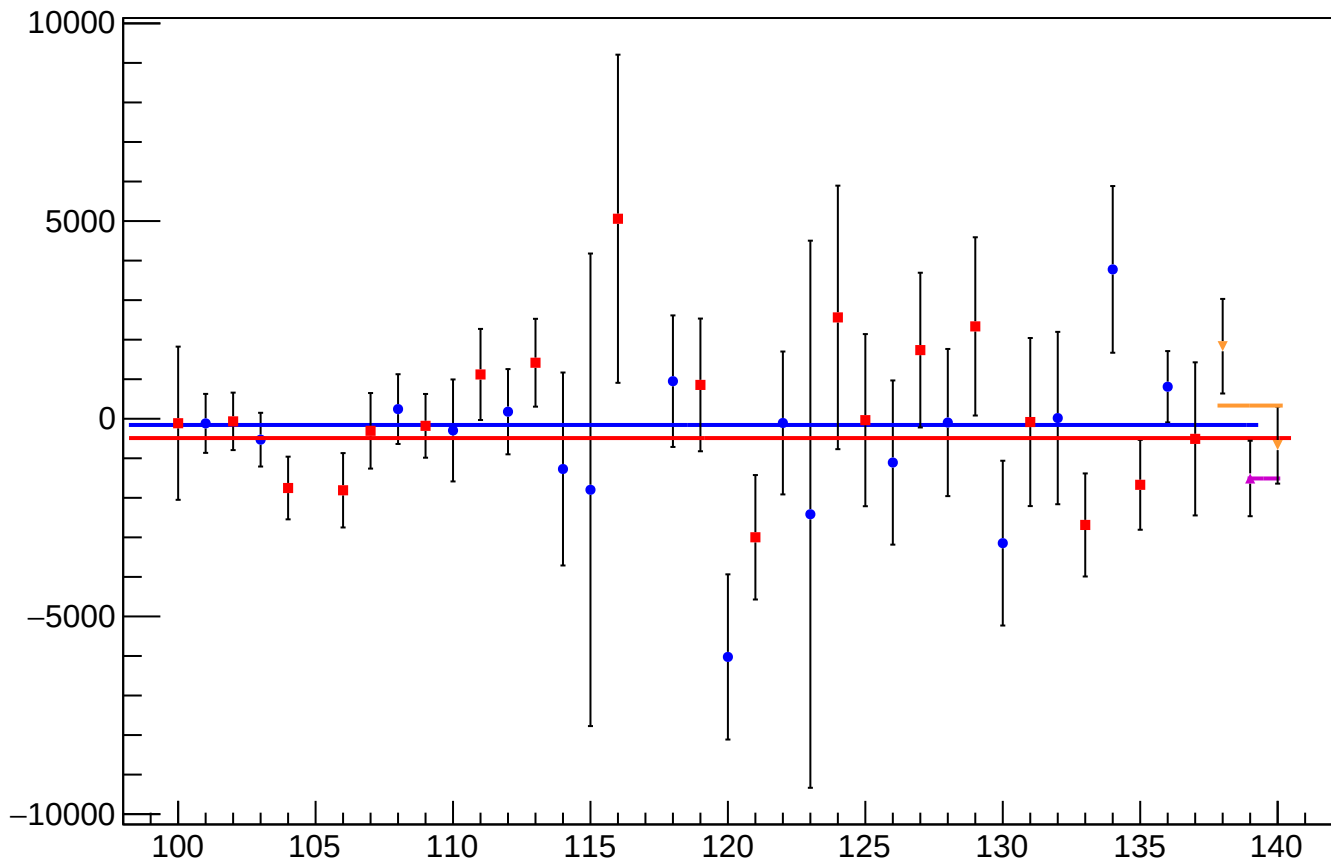
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 865.947+/-0.691  $\chi^2/\text{NDF}$ :0.0/0

Out: 955.751+/-0.549  $\chi^2/\text{NDF}$ :20118.5/1

All: 920.982+/-0.430  $\chi^2/\text{NDF}$ : 30473.4/2

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-157.178 \pm 312.499$   $\chi^2/\text{NDF}: 16.2/16$

Left Out:  $333.501 \pm 756.046$   $\chi^2/\text{NDF}: 2.6/1$

Right Out:  $-488.583 \pm 282.758$   $\chi^2/\text{NDF}: 22.6/18$

Left In:  $-1510.517 \pm 954.370$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-377.530 \pm 592.623$   $\chi^2/\text{NDF}: 4.9/2$

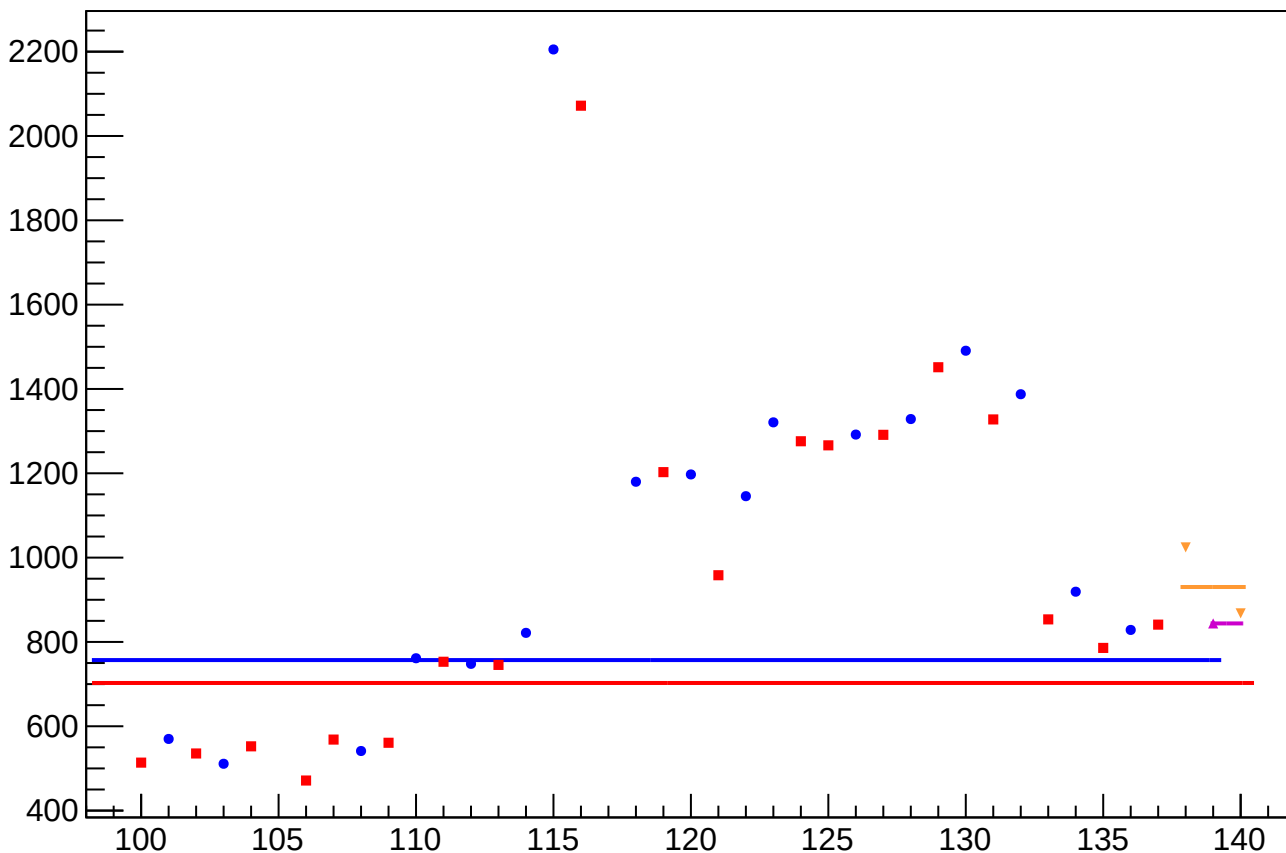
Right:  $-339.397 \pm 209.669$   $\chi^2/\text{NDF}: 39.5/35$

In:  $-288.229 \pm 296.984$   $\chi^2/\text{NDF}: 18.1/17$

Out:  $-387.706 \pm 264.842$   $\chi^2/\text{NDF}: 26.3/20$

All:  $-343.640 \pm 197.662$   $\chi^2/\text{NDF}: 44.4/38$

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.985+/-0.221  $\chi^2/\text{NDF}$ : 1711285.9/16

Left Out: 930.295+/-0.535  $\chi^2/\text{NDF}$ : 20543.3/1

Right Out: 702.656+/-0.200  $\chi^2/\text{NDF}$ : 1689579.7/18

Left In: 843.886+/-0.675  $\chi^2/\text{NDF}$ : 0.0/0

Left: 896.977+/-0.419  $\chi^2/\text{NDF}$ : 30616.7/2

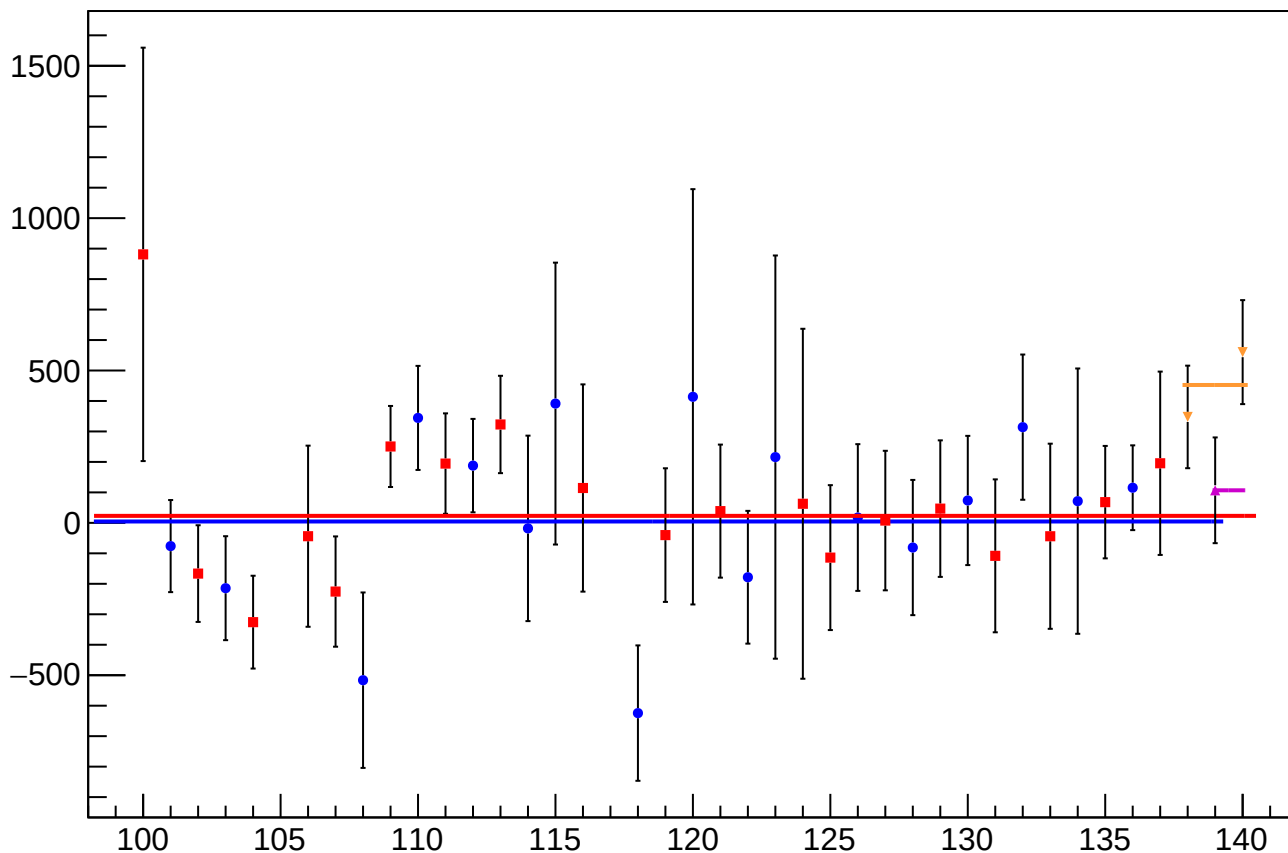
Right: 727.113+/-0.148  $\chi^2/\text{NDF}$ : 3434103.1/35

In: 765.400+/-0.210  $\chi^2/\text{NDF}$ : 1726262.5/17

Out: 730.589+/-0.187  $\chi^2/\text{NDF}$ : 1869186.6/20

All: 746.010+/-0.140  $\chi^2/\text{NDF}$ : 3610754.9/38

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: 4.533+/-52.509  $\chi^2/\text{NDF}$ : 23.1/16

Left Out: 452.514+/-119.818  $\chi^2/\text{NDF}$ : 0.8/1

Right Out: 22.985+/-47.854  $\chi^2/\text{NDF}$ : 19.0/18

Left In: 106.849+/-173.517  $\chi^2/\text{NDF}$ : 0.0/0

Left: 340.910+/-98.595  $\chi^2/\text{NDF}$ : 3.5/2

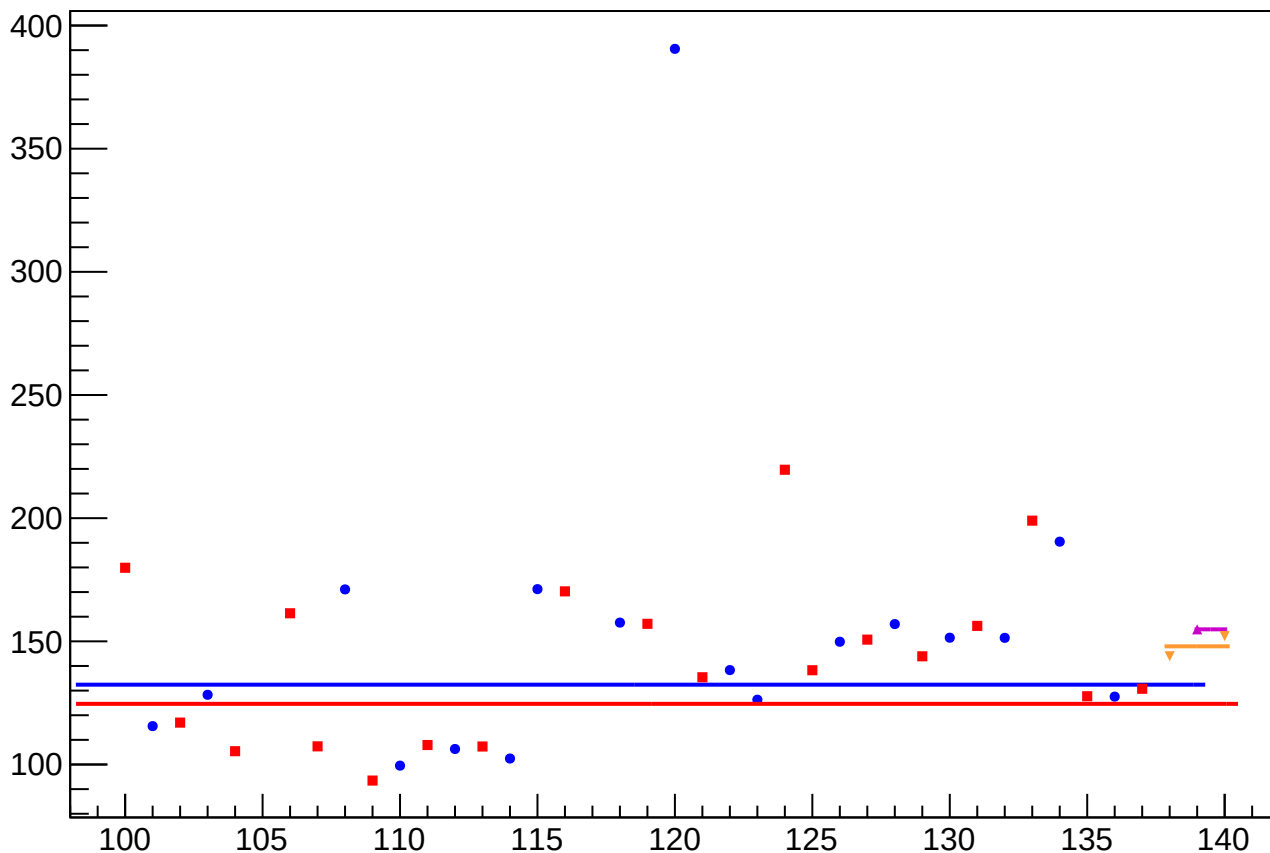
Right: 14.613+/-35.370  $\chi^2/\text{NDF}$ : 42.1/35

In: 13.117+/-50.259  $\chi^2/\text{NDF}$ : 23.4/17

Out: 82.075+/-44.441  $\chi^2/\text{NDF}$ : 30.8/20

All: 51.817+/-33.292  $\chi^2/\text{NDF}$ : 55.3/38

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 132.404 $\pm$ 0.037  $\chi^2$ /NDF: 643884.8/16

Left Out: 147.971 $\pm$ 0.085  $\chi^2$ /NDF:2331.7/1

Right Out: 124.620 $\pm$ 0.034  $\chi^2$ /NDF: 592322.9/18

Left In: 154.871 $\pm$ 0.123  $\chi^2$ /NDF:0.0/0

Left: 150.199 $\pm$ 0.070  $\chi^2$ /NDF: 4473.1/2

Right: 128.152 $\pm$ 0.025  $\chi^2$ /NDF: 1260220.4/35

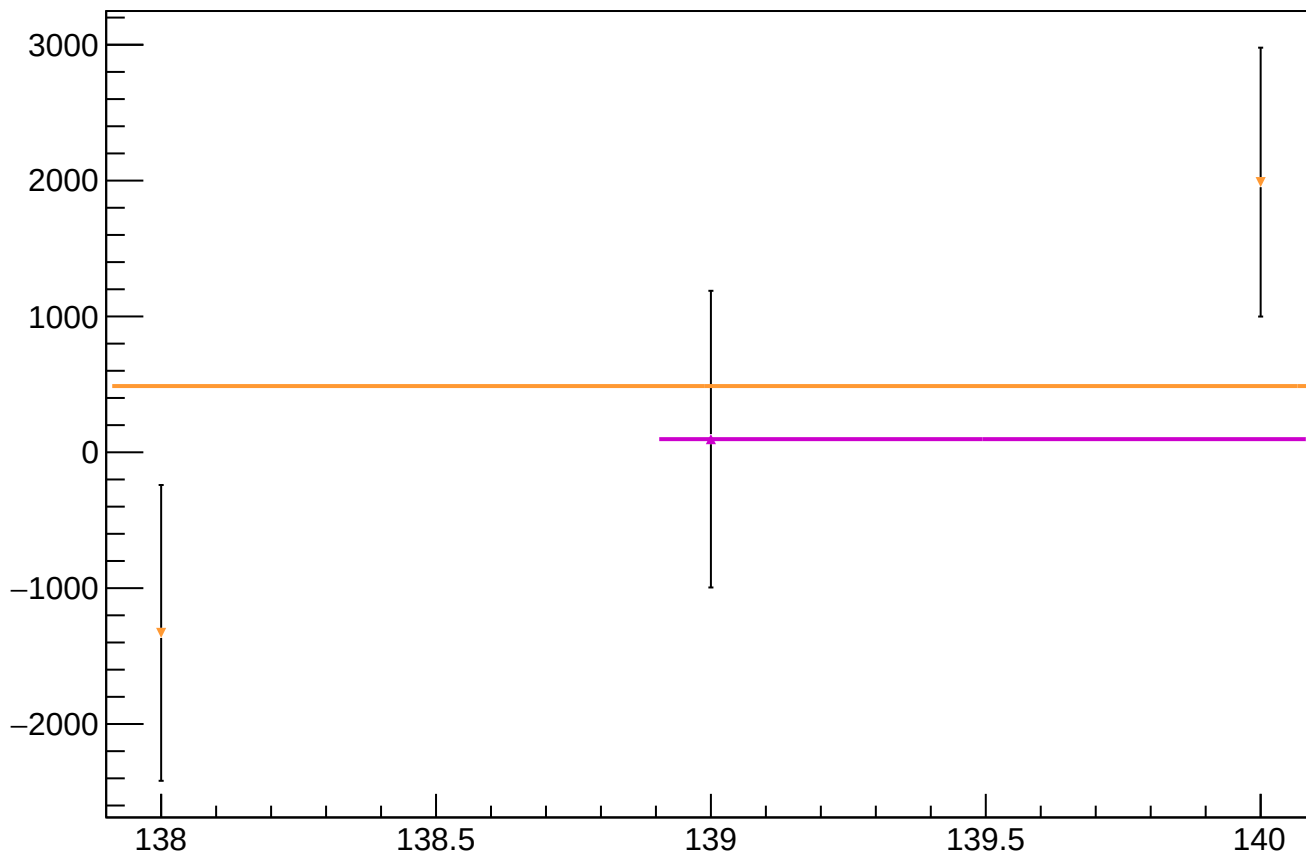
In: 134.289 $\pm$ 0.036  $\chi^2$ /NDF:674600.4/17

Out: 127.832 $\pm$ 0.031  $\chi^2$ /NDF:660167.7/20

All: 130.666 $\pm$ 0.024  $\chi^2$ /NDF: 1353294.3/38



asym\_sam6\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 487.579+/-732.294  $\chi^2/\text{NDF}$ : 5.1/1

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

Left In: 96.859+/-1091.887  $\chi^2/\text{NDF}$ : 0.0/0

Left: 366.359+/-608.180  $\chi^2/\text{NDF}$ : 5.2/2

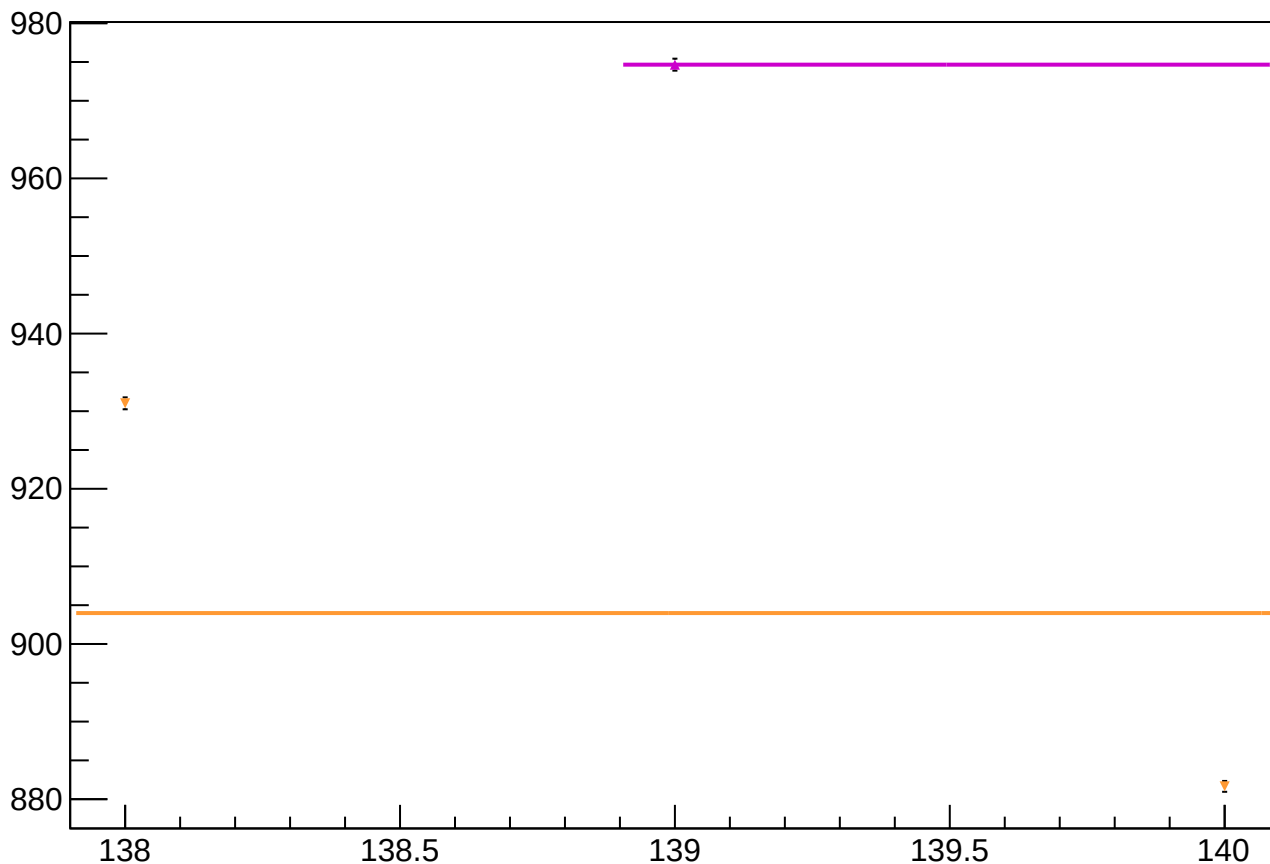
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 96.859+/-1091.887  $\chi^2/\text{NDF}$ : 0.0/0

Out: 487.579+/-732.294  $\chi^2/\text{NDF}$ : 5.1/1

All: 366.359+/-608.180  $\chi^2/\text{NDF}$ : 5.2/2

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 903.985+/-0.518  $\chi^2/\text{NDF}$ :2251.3/1

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

Left In: 974.656+/-0.772  $\chi^2/\text{NDF}$ :0.0/0

Left: 925.910+/-0.430  $\chi^2/\text{NDF}$ : 8030.3/2

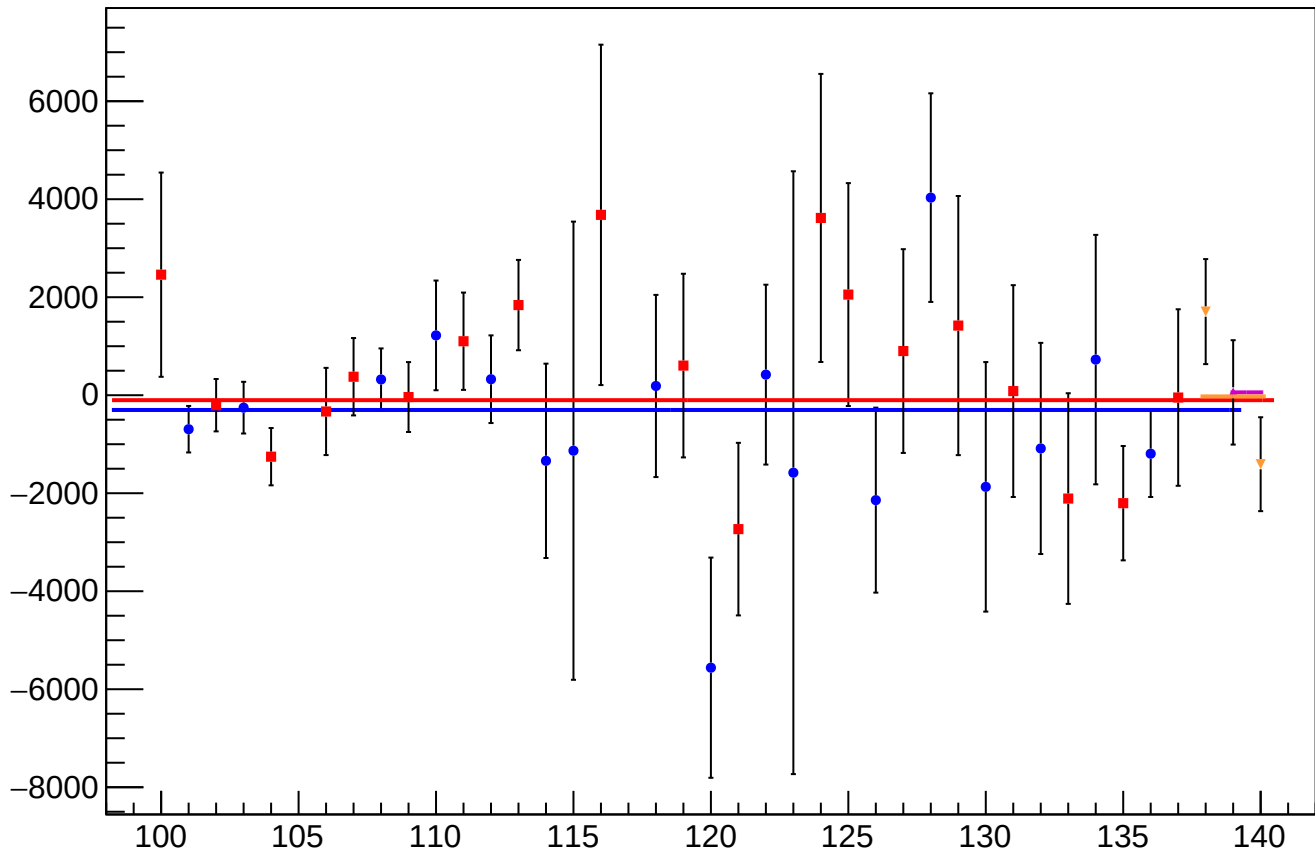
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 974.656+/-0.772  $\chi^2/\text{NDF}$ :0.0/0

Out: 903.985+/-0.518  $\chi^2/\text{NDF}$ :2251.3/1

All: 925.910+/-0.430  $\chi^2/\text{NDF}$ : 8030.3/2

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-301.000 \pm 250.042$   $\chi^2/\text{NDF}$ : 16.8/16

Left Out:  $-24.455 \pm 714.332$   $\chi^2/\text{NDF}$ : 4.7/1

Right Out:  $-100.857 \pm 245.981$   $\chi^2/\text{NDF}$ : 22.5/18

Left In:  $57.659 \pm 1065.130$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.020 \pm 593.266$   $\chi^2/\text{NDF}$ : 4.7/2

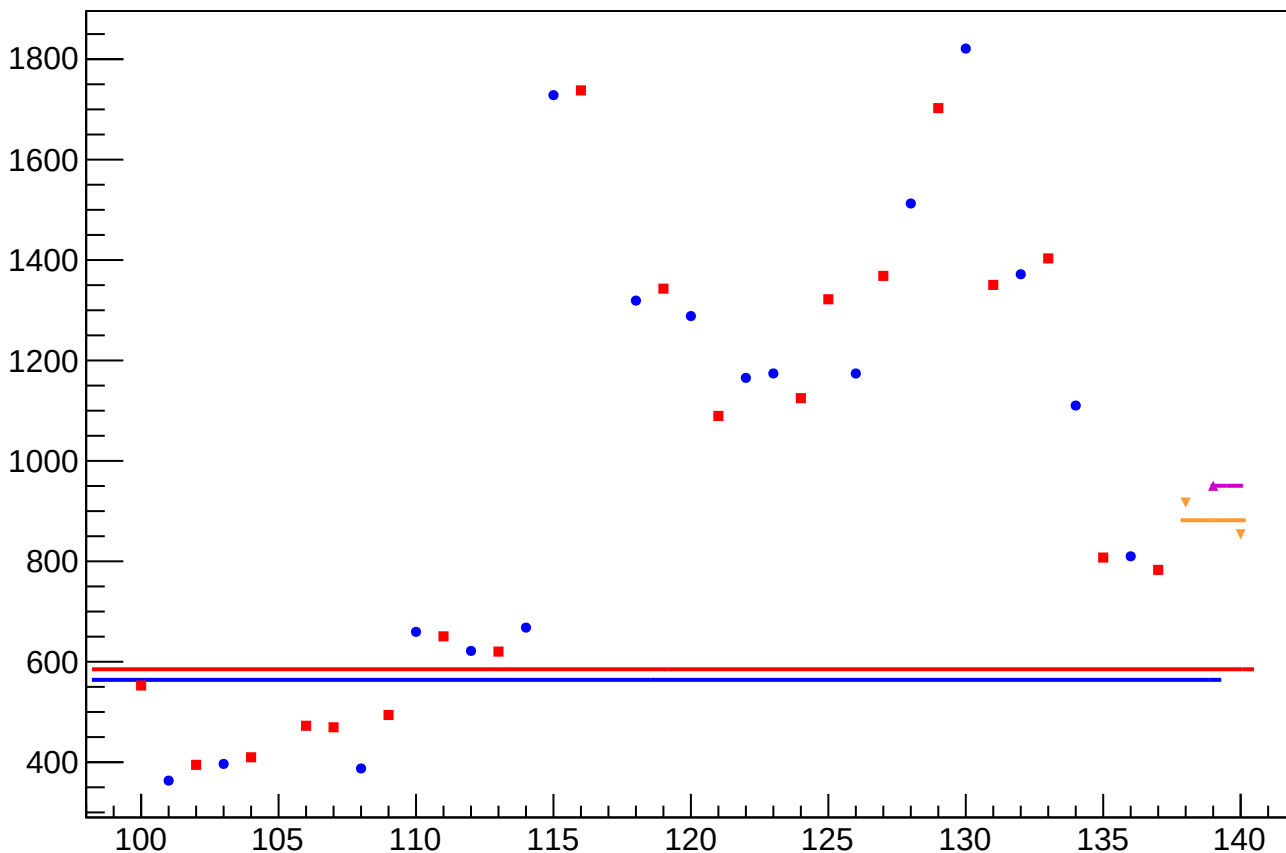
Right:  $-199.290 \pm 175.353$   $\chi^2/\text{NDF}$ : 39.7/35

In:  $-282.267 \pm 243.425$   $\chi^2/\text{NDF}$ : 17.0/17

Out:  $-92.758 \pm 232.578$   $\chi^2/\text{NDF}$ : 27.2/20

All:  $-183.196 \pm 168.161$   $\chi^2/\text{NDF}$ : 44.5/38

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 564.003+/-0.177  $\chi^2/\text{NDF}$ : 3261491.3/16

Left Out: 881.816+/-0.505  $\chi^2/\text{NDF}$ : 3866.9/1

Right Out: 585.070+/-0.174  $\chi^2/\text{NDF}$ : 2820837.8/18

Left In: 950.521+/-0.753  $\chi^2/\text{NDF}$ : 0.0/0

Left: 903.131+/-0.420  $\chi^2/\text{NDF}$ : 9606.8/2

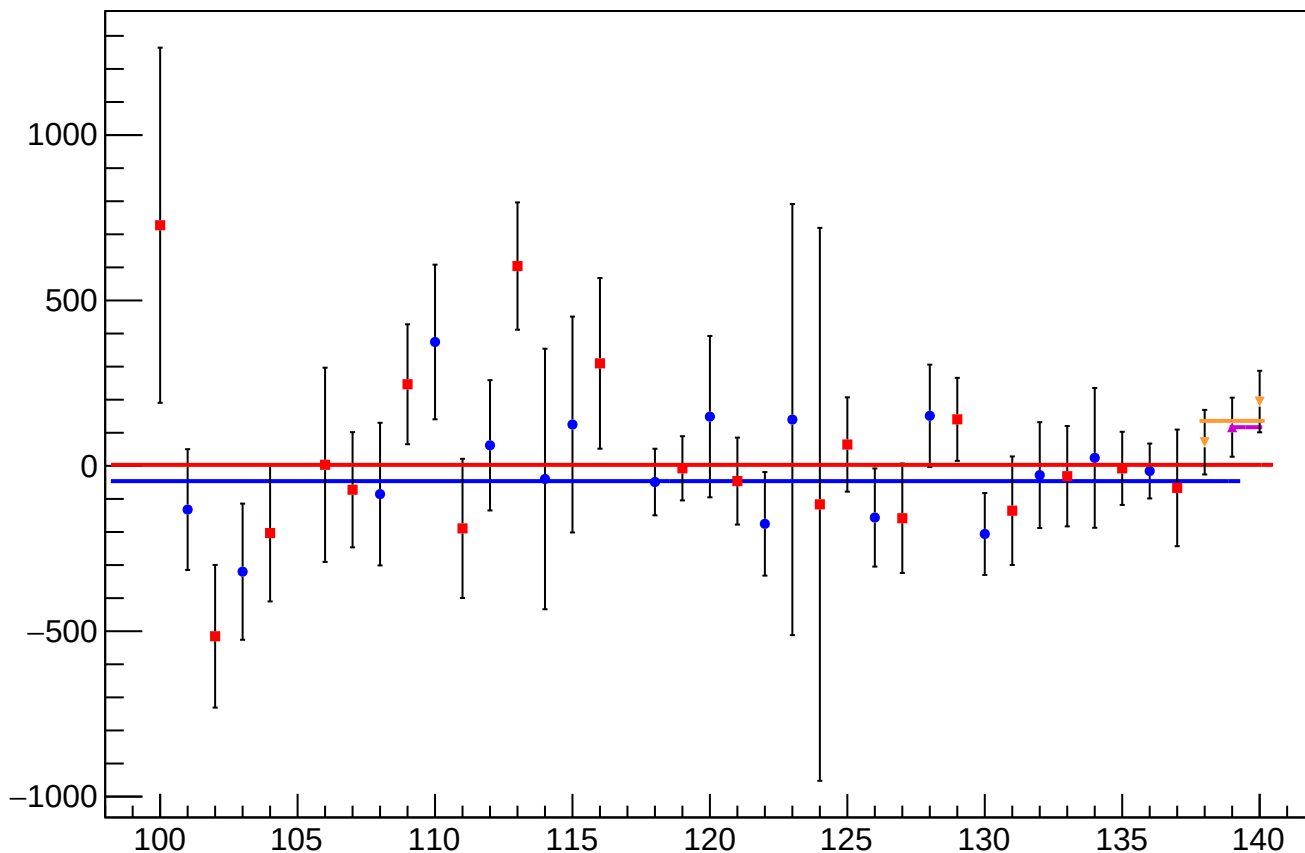
Right: 574.709+/-0.124  $\chi^2/\text{NDF}$ : 6089543.5/35

In: 584.191+/-0.172  $\chi^2/\text{NDF}$ : 3511103.6/17

Out: 616.527+/-0.164  $\chi^2/\text{NDF}$ : 3133261.1/20

All: 601.096+/-0.119  $\chi^2/\text{NDF}$ : 6662813.7/38

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $-46.211 \pm 39.137$   $\chi^2/\text{NDF}: 11.3/16$

Left Out:  $135.921 \pm 67.322$   $\chi^2/\text{NDF}: 0.8/1$

Right Out:  $2.942 \pm 37.872$   $\chi^2/\text{NDF}: 26.0/18$

Left In:  $116.866 \pm 89.277$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $129.014 \pm 53.752$   $\chi^2/\text{NDF}: 0.9/2$

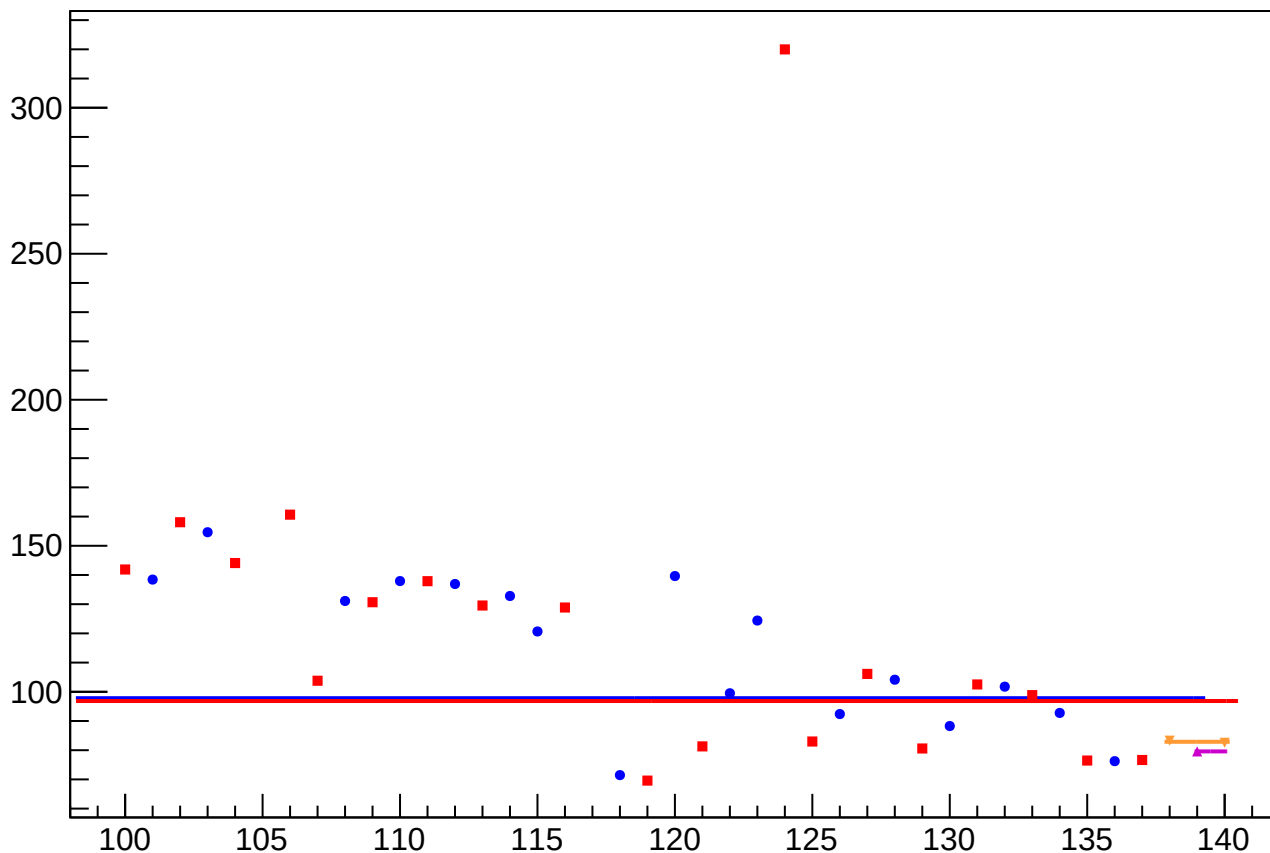
Right:  $-20.827 \pm 27.216$   $\chi^2/\text{NDF}: 38.2/35$

In:  $-19.924 \pm 35.844$   $\chi^2/\text{NDF}: 14.1/17$

Out:  $34.909 \pm 33.008$   $\chi^2/\text{NDF}: 29.8/20$

All:  $9.747 \pm 24.281$   $\chi^2/\text{NDF}: 45.2/38$

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 97.807 $\pm$ 0.028  $\chi^2$ /NDF: 816964.4/16

Left Out: 82.879 $\pm$ 0.048  $\chi^2$ /NDF: 57.9/1

Right Out: 96.842 $\pm$ 0.027  $\chi^2$ /NDF: 1095471.1/18

Left In: 79.584 $\pm$ 0.063  $\chi^2$ /NDF: 0.0/0

Left: 81.685 $\pm$ 0.038  $\chi^2$ /NDF: 1794.5/2

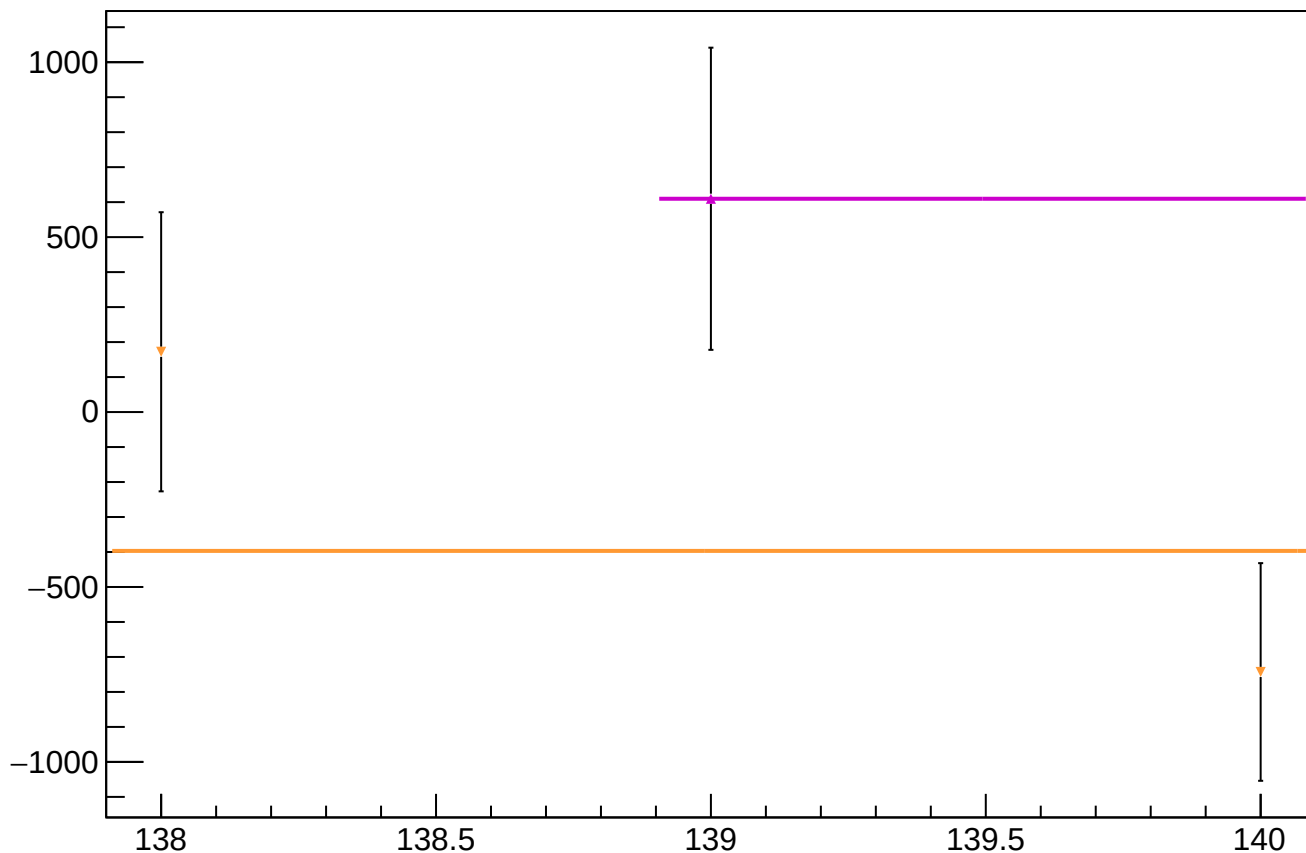
Right: 97.309 $\pm$ 0.019  $\chi^2$ /NDF: 1913063.7/35

In: 94.870 $\pm$ 0.025  $\chi^2$ /NDF: 886856.1/17

Out: 93.485 $\pm$ 0.023  $\chi^2$ /NDF: 1160875.9/20

All: 94.121 $\pm$ 0.017  $\chi^2$ /NDF: 2049346.0/38

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -396.877+/-245.302  $\chi^2/\text{NDF}$ : 3.3/1

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

Left In: 609.654+/-431.847  $\chi^2/\text{NDF}$ : 0.0/0

Left: -151.337+/-213.293  $\chi^2/\text{NDF}$ : 7.4/2

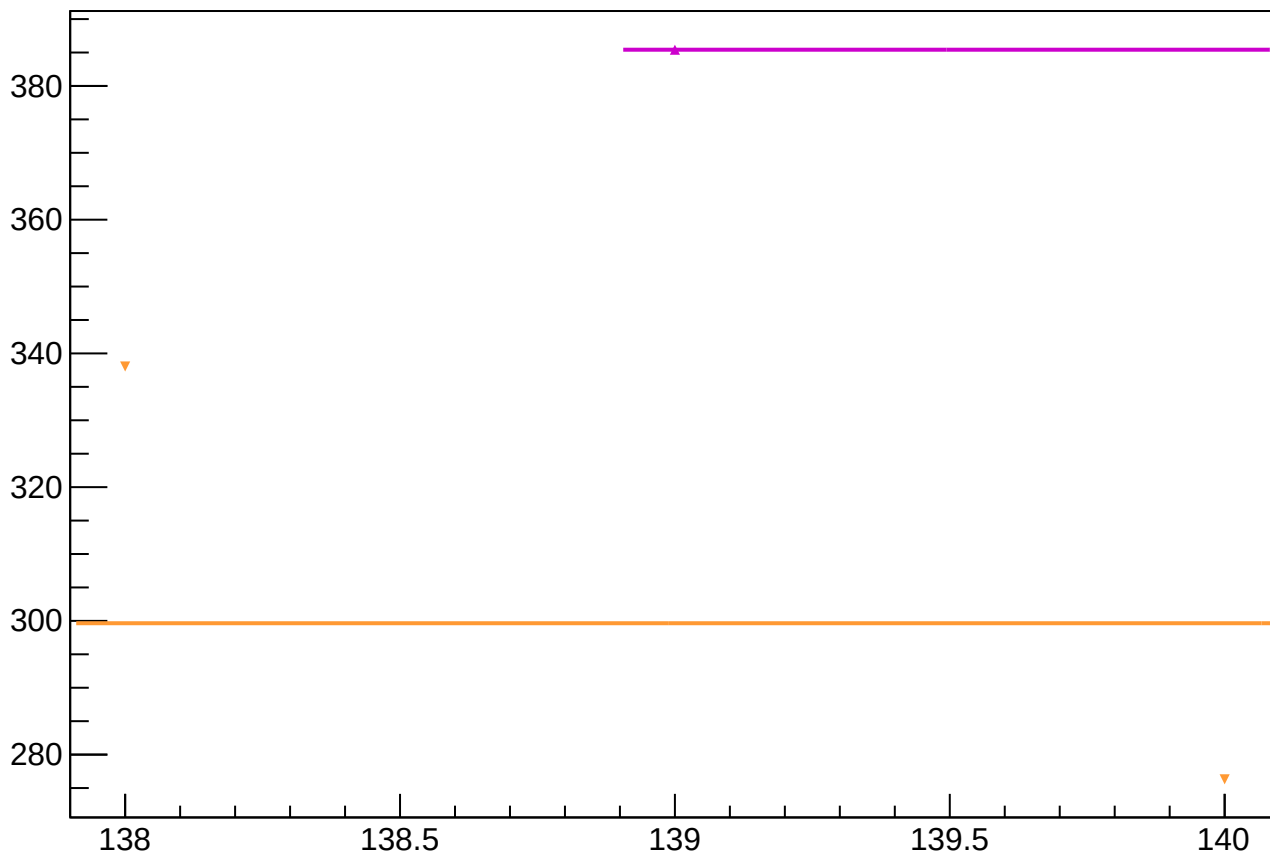
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 609.654+/-431.847  $\chi^2/\text{NDF}$ : 0.0/0

Out: -396.877+/-245.302  $\chi^2/\text{NDF}$ : 3.3/1

All: -151.337+/-213.293  $\chi^2/\text{NDF}$ : 7.4/2

asym\_sam7\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 299.648+/-0.173  $\chi^2/\text{NDF}$ : 29792.0/1

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

Left In: 385.420+/-0.305  $\chi^2/\text{NDF}$ : 0.0/0

Left: 320.572+/-0.151  $\chi^2/\text{NDF}$ : 89442.8/2

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

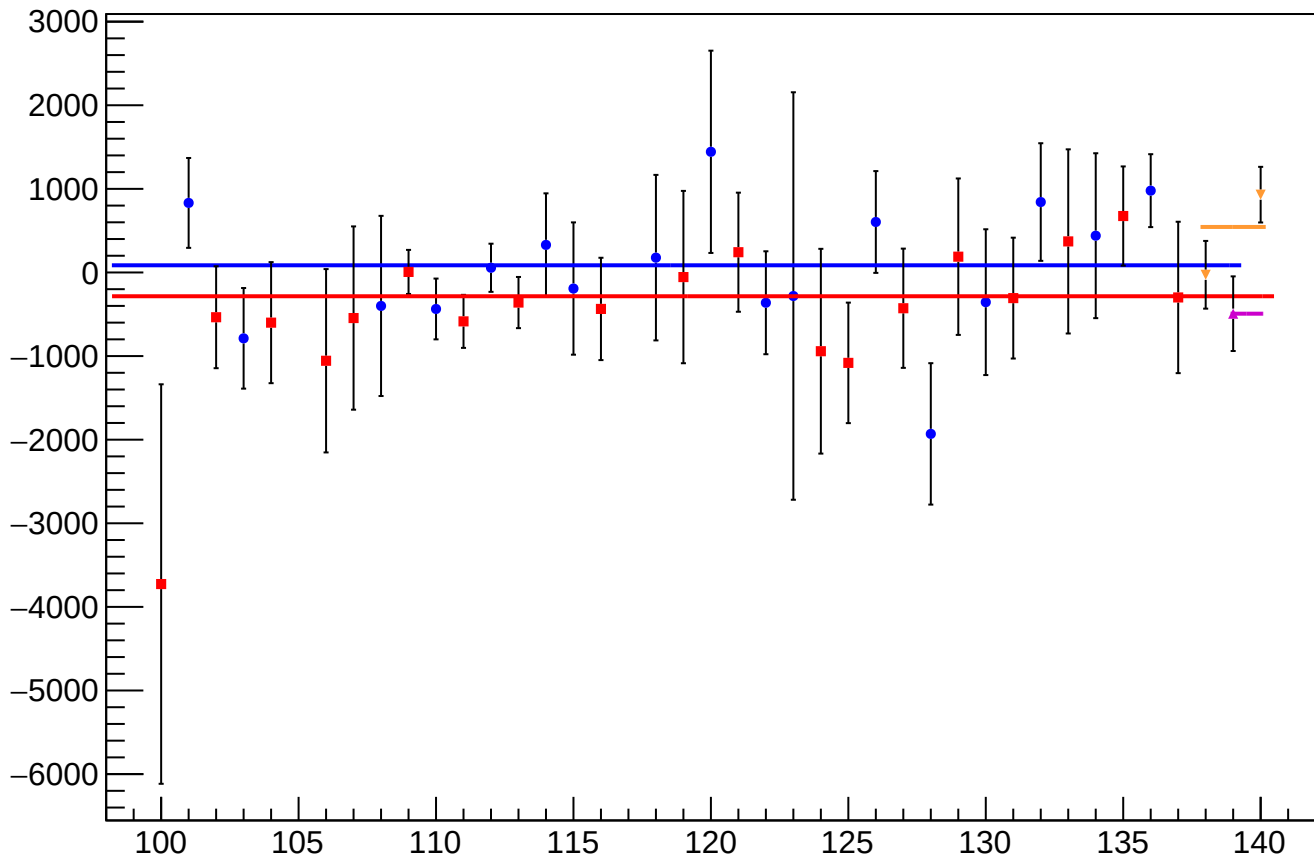
In: 385.420+/-0.305  $\chi^2/\text{NDF}$ : 0.0/0

Out: 299.648+/-0.173  $\chi^2/\text{NDF}$ : 29792.0/1

All: 320.572+/-0.151  $\chi^2/\text{NDF}$ : 89442.8/2



# asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $85.810 \pm 142.601$   $\chi^2/\text{NDF}: 20.6/16$

Left Out:  $544.341 \pm 257.117$   $\chi^2/\text{NDF}: 3.3/1$

Right Out:  $-284.456 \pm 129.599$   $\chi^2/\text{NDF}: 10.6/18$

Left In:  $-493.102 \pm 446.341$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $285.853 \pm 222.795$   $\chi^2/\text{NDF}: 7.4/2$

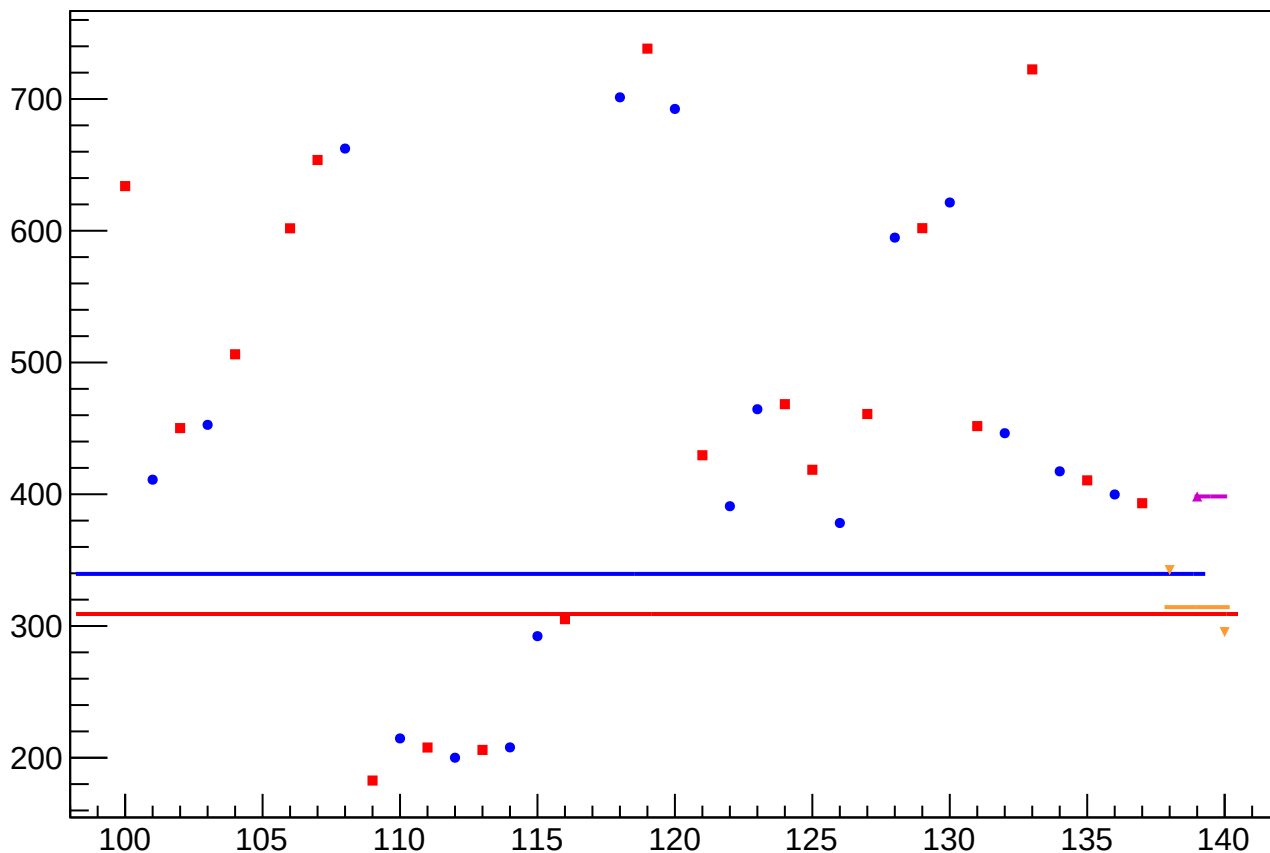
Right:  $-116.969 \pm 95.908$   $\chi^2/\text{NDF}: 34.9/35$

In:  $32.192 \pm 135.836$   $\chi^2/\text{NDF}: 22.1/17$

Out:  $-116.549 \pm 115.729$   $\chi^2/\text{NDF}: 22.2/20$

All:  $-53.992 \pm 88.093$   $\chi^2/\text{NDF}: 45.0/38$

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In:  $339.553 \pm 0.101$   $\chi^2/\text{NDF}: 2042244.1/16$

Left Out:  $314.332 \pm 0.182$   $\chi^2/\text{NDF}: 16102.2/1$

Right Out:  $309.105 \pm 0.092$   $\chi^2/\text{NDF}: 2730308.7/18$

Left In:  $398.333 \pm 0.316$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $335.262 \pm 0.158$   $\chi^2/\text{NDF}: 69290.1/2$

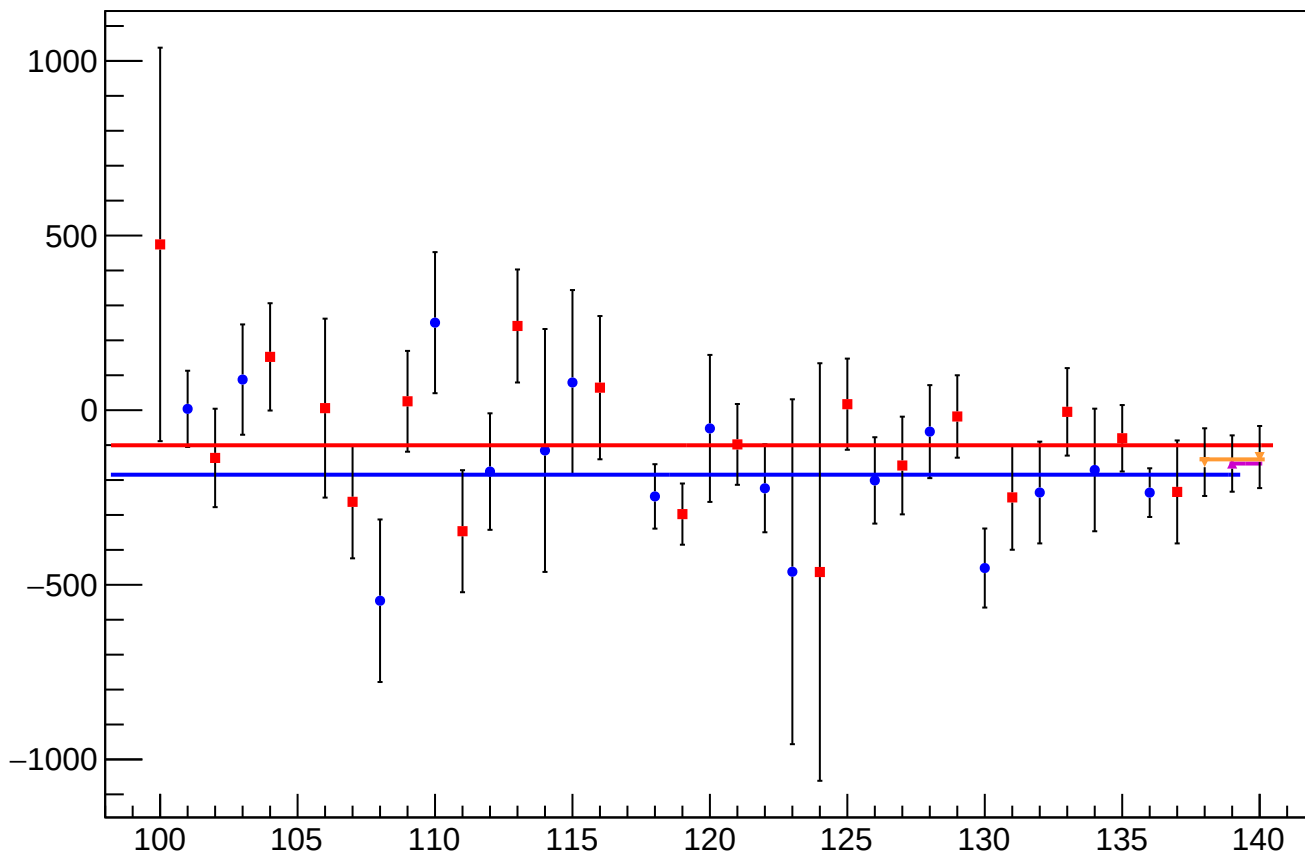
Right:  $322.878 \pm 0.068$   $\chi^2/\text{NDF}: 4822487.1/35$

In:  $344.997 \pm 0.096$   $\chi^2/\text{NDF}: 2073718.6/17$

Out:  $310.164 \pm 0.082$   $\chi^2/\text{NDF}: 2747070.1/20$

All:  $324.814 \pm 0.062$   $\chi^2/\text{NDF}: 4896990.7/38$

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -184.736 $\pm$ 33.009  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -140.832 $\pm$ 65.521  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: -100.491 $\pm$ 32.512  $\chi^2/\text{NDF}$ : 22.2/18

Left In: -152.783 $\pm$ 80.676  $\chi^2/\text{NDF}$ : 0.0/0

Left: -145.582 $\pm$ 50.860  $\chi^2/\text{NDF}$ : 0.0/2

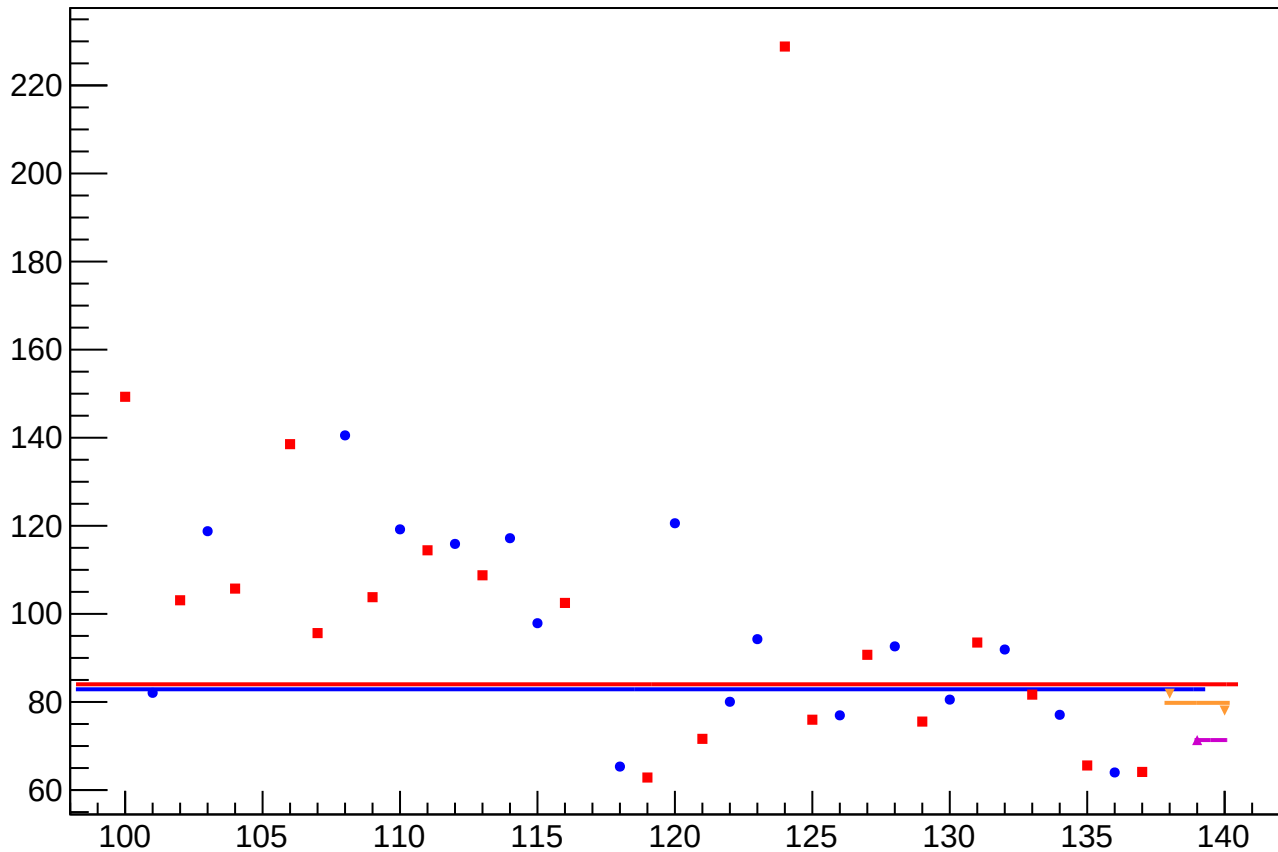
Right: -141.974 $\pm$ 23.163  $\chi^2/\text{NDF}$ : 47.9/35

In: -180.154 $\pm$ 30.551  $\chi^2/\text{NDF}$ : 22.6/17

Out: -108.461 $\pm$ 29.123  $\chi^2/\text{NDF}$ : 22.5/20

All: -142.594 $\pm$ 21.080  $\chi^2/\text{NDF}$ : 47.9/38

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 82.880 $\pm$ 0.023  $\chi^2$ /NDF: 706417.7/16

Left Out: 79.801 $\pm$ 0.046  $\chi^2$ /NDF:1697.2/1

Right Out: 84.013 $\pm$ 0.023  $\chi^2$ /NDF: 765400.6/18

Left In: 71.351 $\pm$ 0.057  $\chi^2$ /NDF:0.0/0

Left: 76.443 $\pm$ 0.036  $\chi^2$ /NDF: 14916.6/2

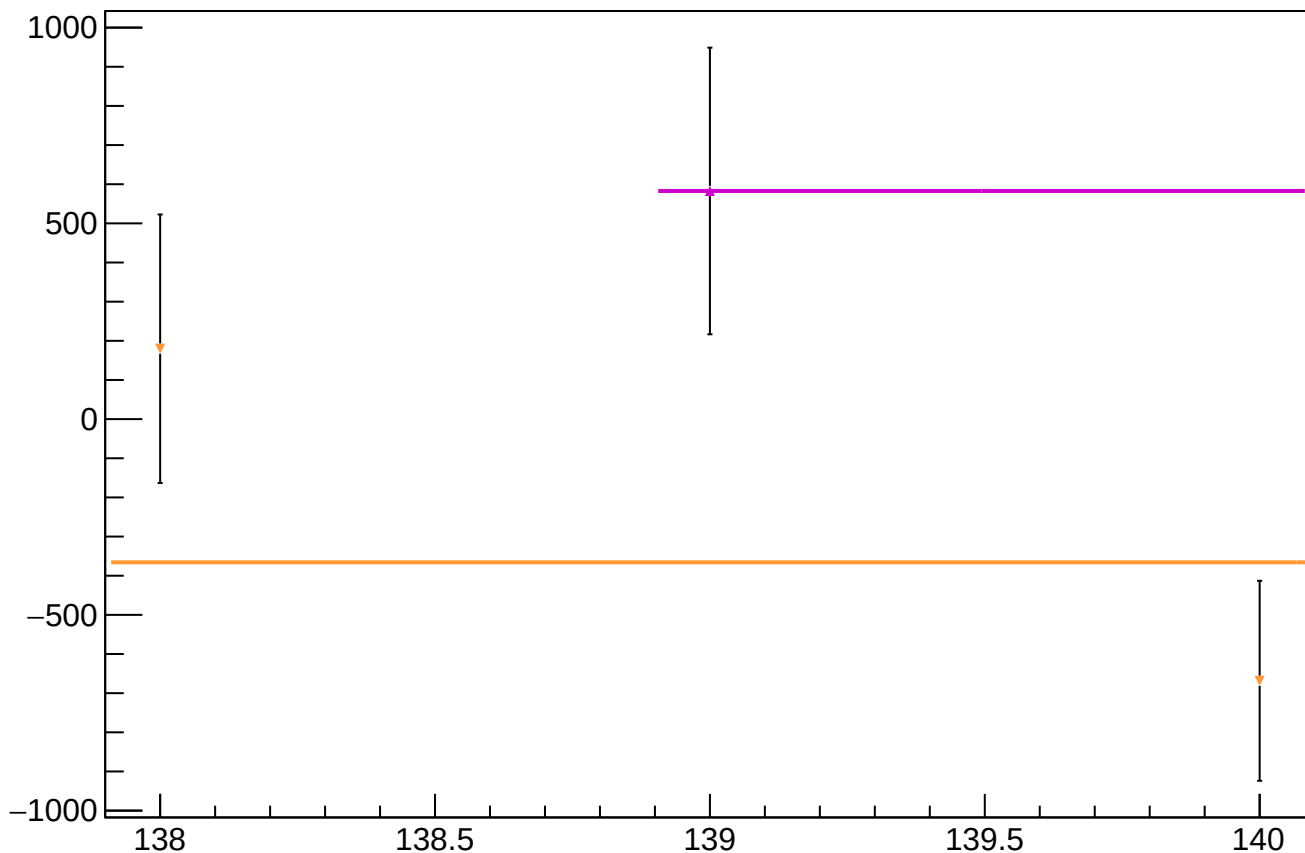
Right: 83.455 $\pm$ 0.016  $\chi^2$ /NDF: 1473013.4/35

In: 81.227 $\pm$ 0.022  $\chi^2$ /NDF:741403.9/17

Out: 83.181 $\pm$ 0.021  $\chi^2$ /NDF:773729.8/20

All: 82.251 $\pm$ 0.015  $\chi^2$ /NDF: 1519418.9/38

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -365.745+/-204.848  $\chi^2/\text{NDF}$ : 3.9/1

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

Left In: 582.739+/-366.037  $\chi^2/\text{NDF}$ : 0.0/0

Left: -139.534+/-178.758  $\chi^2/\text{NDF}$ : 9.0/2

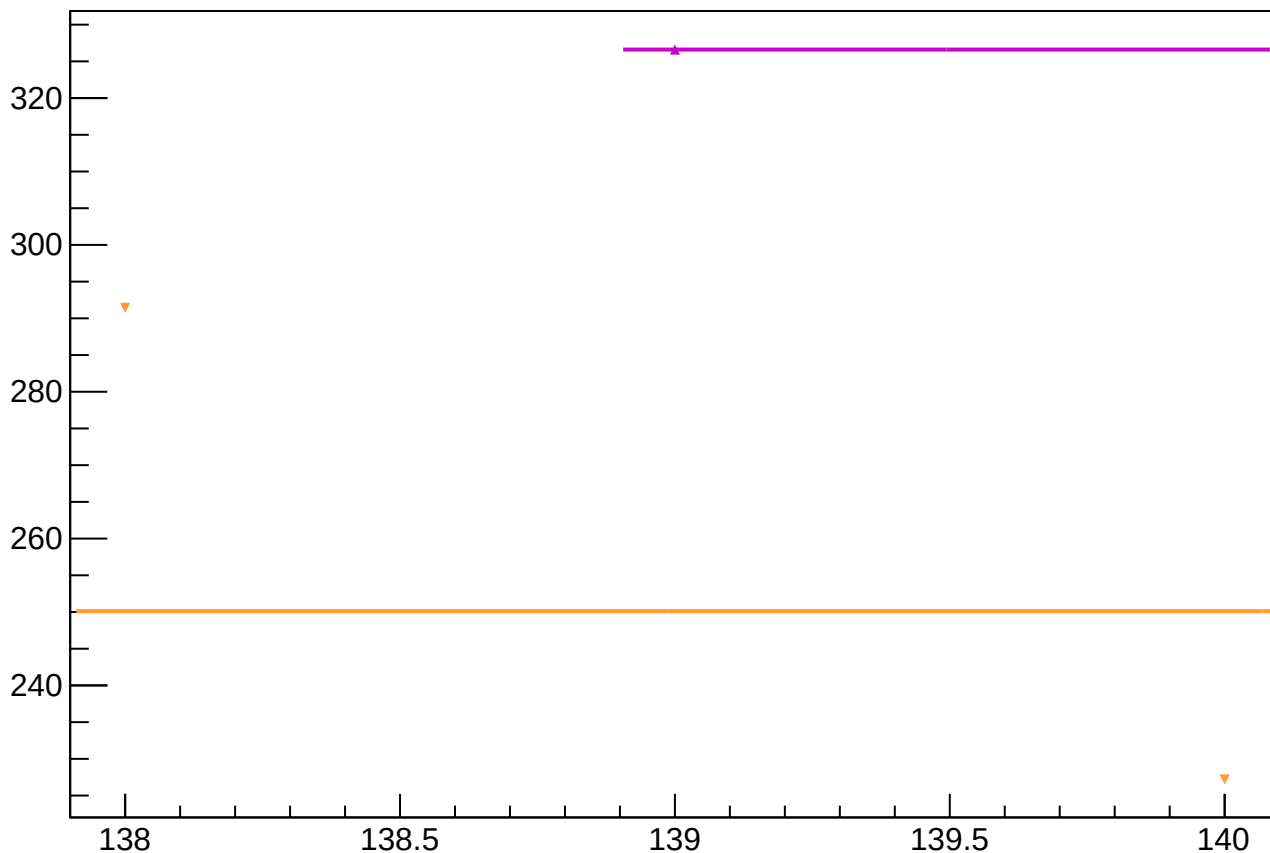
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 582.739+/-366.037  $\chi^2/\text{NDF}$ : 0.0/0

Out: -365.745+/-204.848  $\chi^2/\text{NDF}$ : 3.9/1

All: -139.534+/-178.758  $\chi^2/\text{NDF}$ : 9.0/2

asym\_sam8\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 250.112+/-0.145  $\chi^2/\text{NDF}$ : 45140.0/1

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

Left In: 326.608+/-0.259  $\chi^2/\text{NDF}$ : 0.0/0

Left: 268.356+/-0.126  $\chi^2/\text{NDF}$ : 111656.0/2

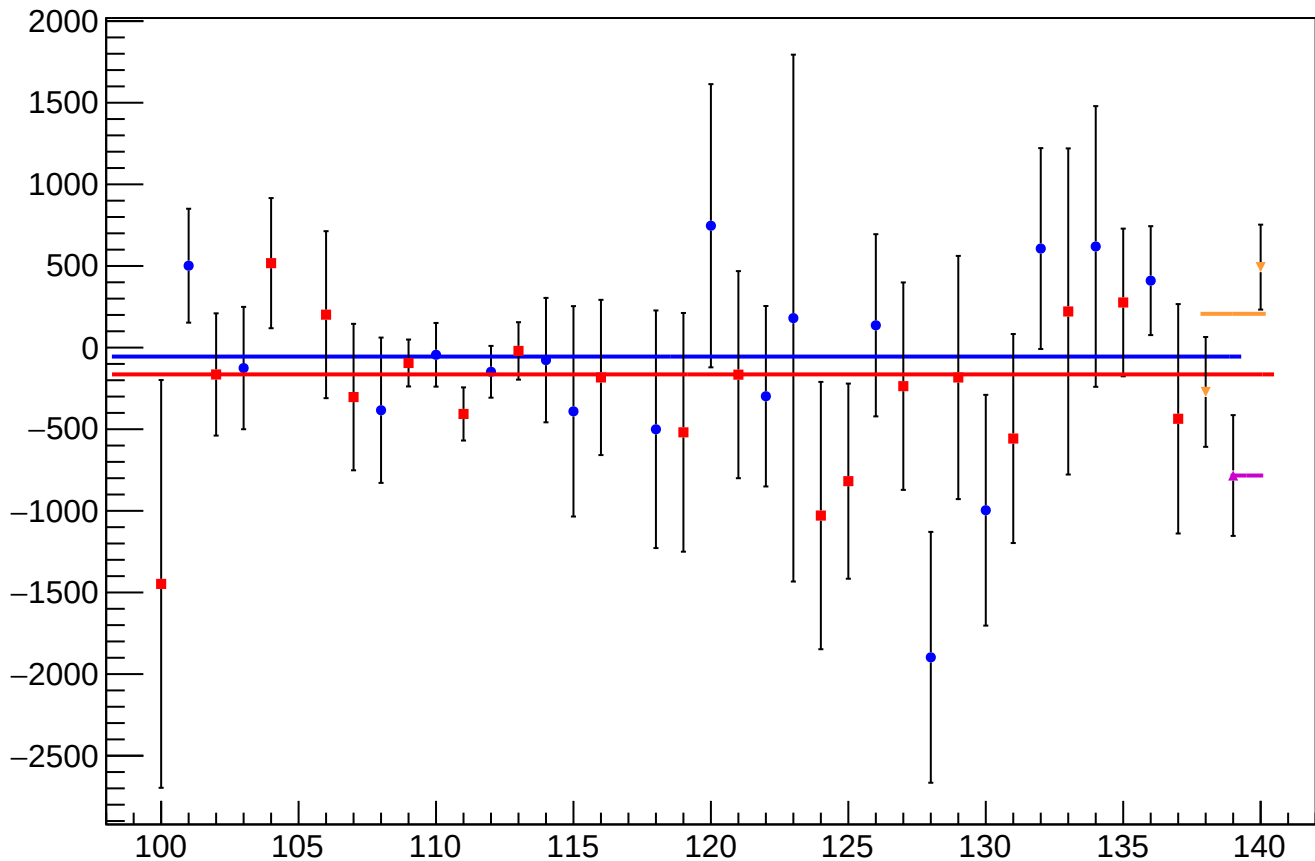
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 326.608+/-0.259  $\chi^2/\text{NDF}$ : 0.0/0

Out: 250.112+/-0.145  $\chi^2/\text{NDF}$ : 45140.0/1

All: 268.356+/-0.126  $\chi^2/\text{NDF}$ : 111656.0/2

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-54.933 \pm 90.355$   $\chi^2/\text{NDF}: 16.5/16$

Left Out:  $206.913 \pm 205.804$   $\chi^2/\text{NDF}: 3.2/1$

Right Out:  $-164.141 \pm 76.903$   $\chi^2/\text{NDF}: 11.9/18$

Left In:  $-783.561 \pm 369.921$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-27.196 \pm 179.845$   $\chi^2/\text{NDF}: 8.7/2$

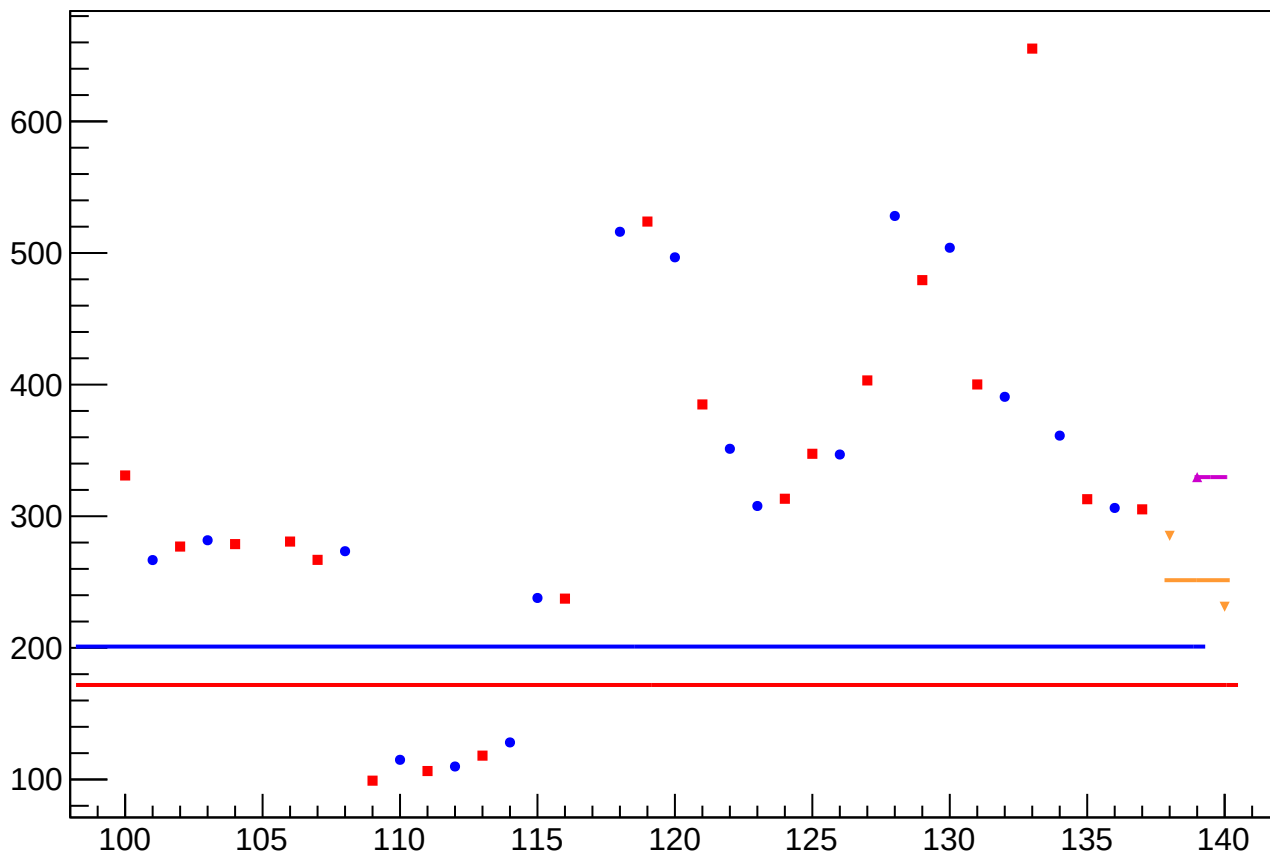
Right:  $-118.264 \pm 58.563$   $\chi^2/\text{NDF}: 29.3/35$

In:  $-95.956 \pm 87.775$   $\chi^2/\text{NDF}: 20.2/17$

Out:  $-118.678 \pm 72.038$   $\chi^2/\text{NDF}: 18.0/20$

All:  $-109.533 \pm 55.685$   $\chi^2/\text{NDF}: 38.2/38$

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 200.971+/-0.064  $\chi^2/\text{NDF}$ : 3436154.0/16

Left Out: 251.409+/-0.146  $\chi^2/\text{NDF}$ : 32102.5/1

Right Out: 171.794+/-0.054  $\chi^2/\text{NDF}$ : 4092634.7/18

Left In: 329.735+/-0.262  $\chi^2/\text{NDF}$ : 0.0/0

Left: 269.922+/-0.127  $\chi^2/\text{NDF}$ : 100573.2/2

Right: 184.051+/-0.041  $\chi^2/\text{NDF}$ : 7649725.9/35

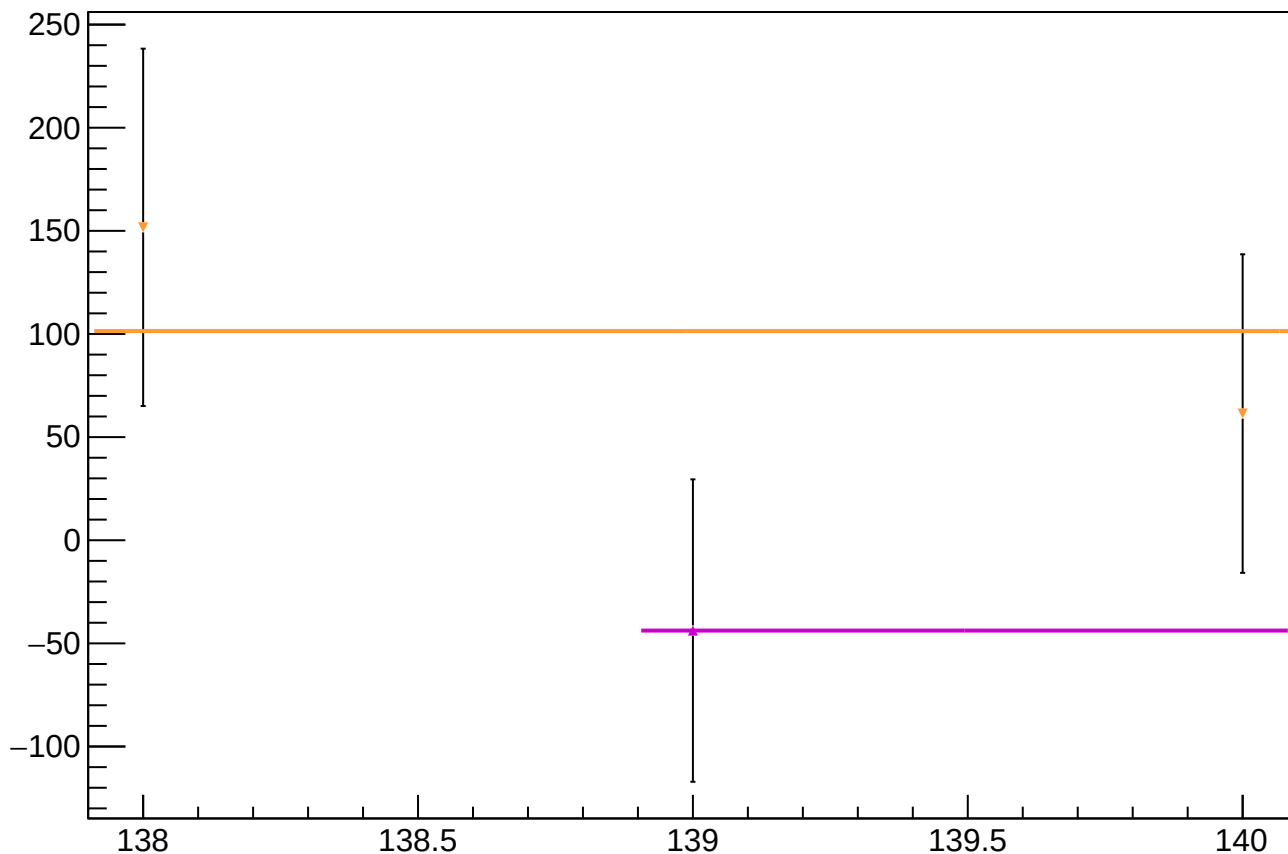
In: 208.220+/-0.062  $\chi^2/\text{NDF}$ : 3664836.4/17

Out: 181.549+/-0.051  $\chi^2/\text{NDF}$ : 4387371.6/20

All: 192.283+/-0.039  $\chi^2/\text{NDF}$ : 8162552.2/38



dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 101.395+/-57.641  $\chi^2/\text{NDF}$ :0.6/1

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

Left In: -43.791+/-73.319  $\chi^2/\text{NDF}$ :0.0/0

Left: 45.937+/-45.314  $\chi^2/\text{NDF}$ : 3.0/2

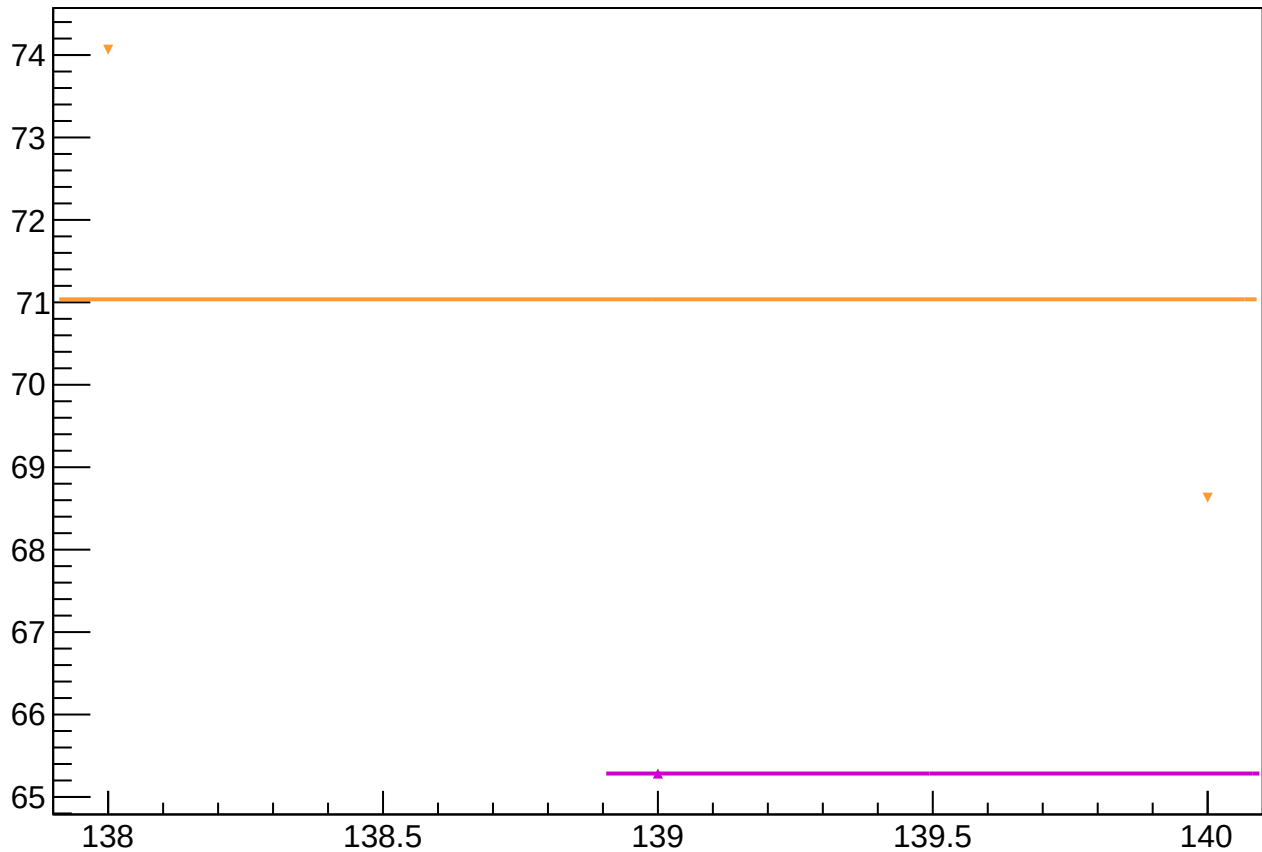
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -43.791+/-73.319  $\chi^2/\text{NDF}$ :0.0/0

Out: 101.395+/-57.641  $\chi^2/\text{NDF}$ :0.6/1

All: 45.937+/-45.314  $\chi^2/\text{NDF}$ : 3.0/2

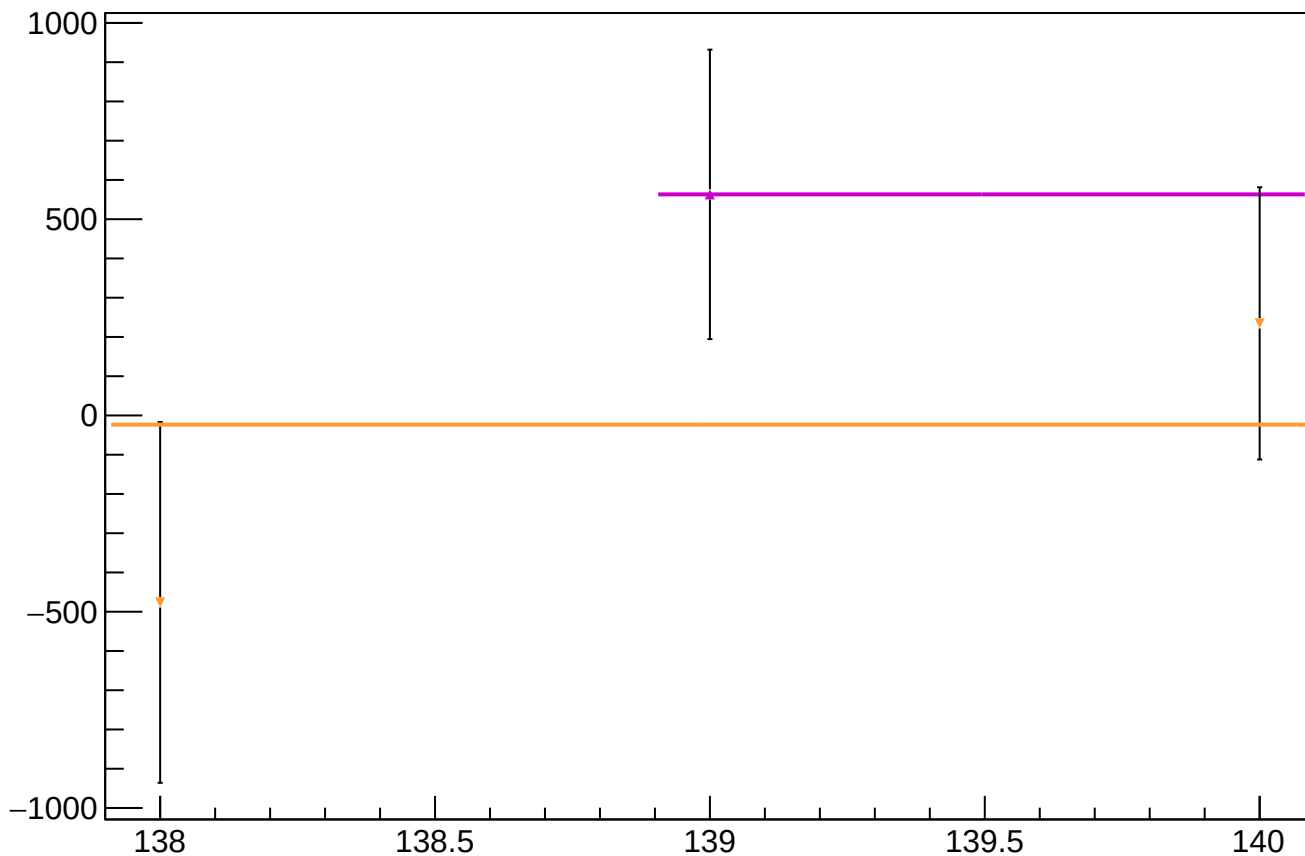
dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $71.037 \pm 0.041$   $\chi^2/\text{NDF}: 4385.8/1$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $65.284 \pm 0.052$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $68.839 \pm 0.032$   $\chi^2/\text{NDF}: 11993.9/2$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $65.284 \pm 0.052$   $\chi^2/\text{NDF}: 0.0/0$   
 Out:  $71.037 \pm 0.041$   $\chi^2/\text{NDF}: 4385.8/1$   
 All:  $68.839 \pm 0.032$   $\chi^2/\text{NDF}: 11993.9/2$

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: -23.360+/-276.834  $\chi^2/\text{NDF}$ : 1.5/1

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

Left In: 563.228+/-368.681  $\chi^2/\text{NDF}$ : 0.0/0

Left: 188.128+/-221.374  $\chi^2/\text{NDF}$ : 3.1/2

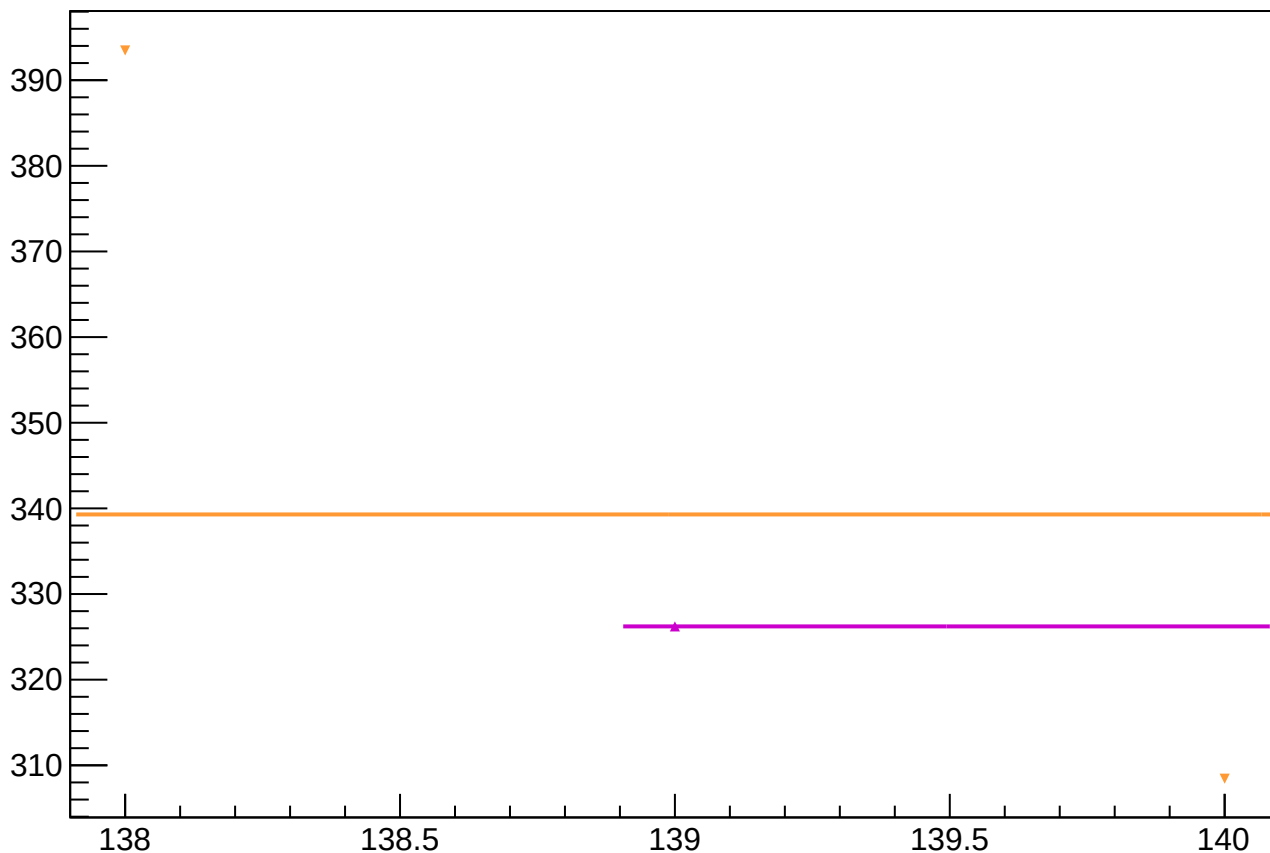
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 563.228+/-368.681  $\chi^2/\text{NDF}$ : 0.0/0

Out: -23.360+/-276.834  $\chi^2/\text{NDF}$ : 1.5/1

All: 188.128+/-221.374  $\chi^2/\text{NDF}$ : 3.1/2

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: 339.293+/-0.196  $\chi^2/\text{NDF}$ :43627.3/1

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

Left In: 326.220+/-0.261  $\chi^2/\text{NDF}$ :0.0/0

Left: 334.580+/-0.157  $\chi^2/\text{NDF}$ : 45235.2/2

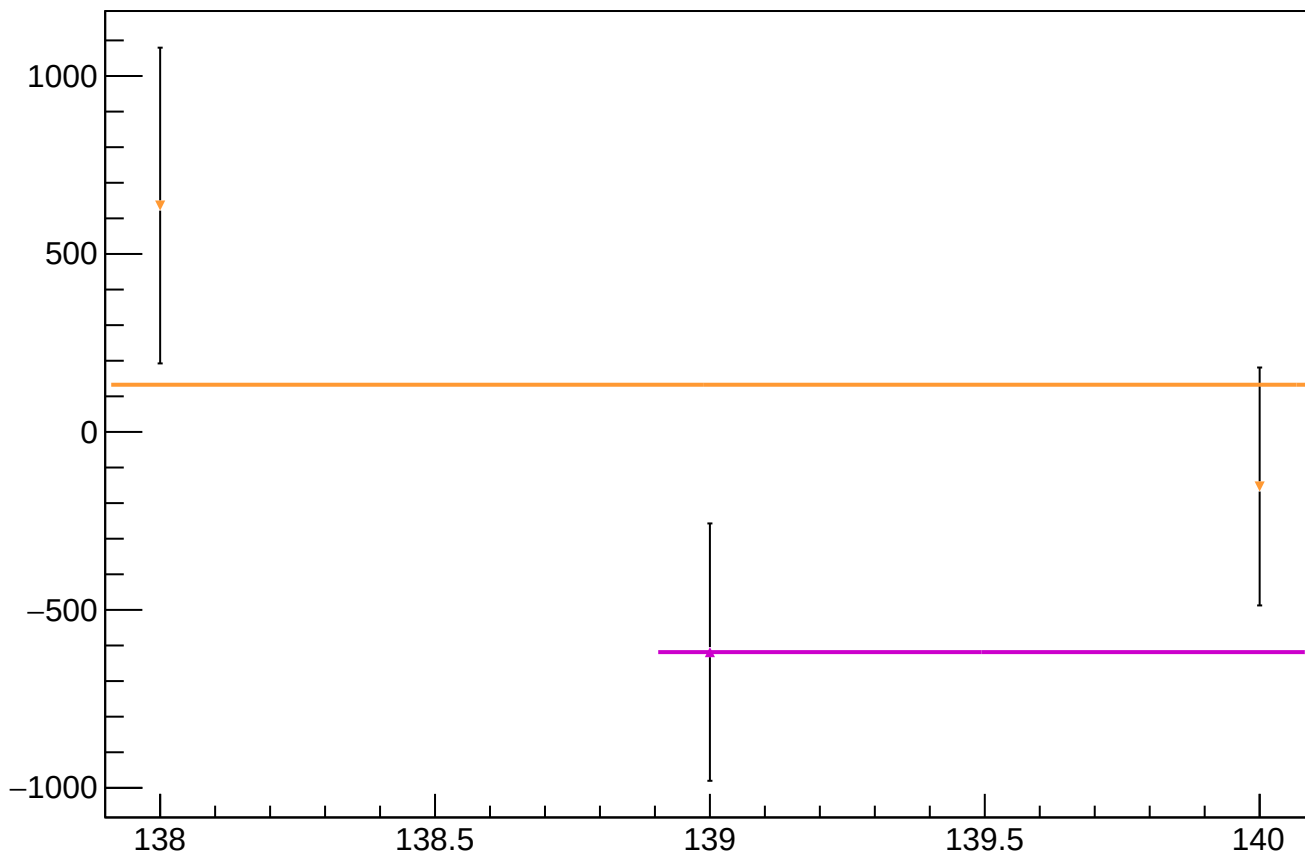
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 326.220+/-0.261  $\chi^2/\text{NDF}$ :0.0/0

Out: 339.293+/-0.196  $\chi^2/\text{NDF}$ :43627.3/1

All: 334.580+/-0.157  $\chi^2/\text{NDF}$ : 45235.2/2

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 132.608+/-266.929  $\chi^2/\text{NDF}$ : 2.0/1

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

Left In: -618.623+/-361.539  $\chi^2/\text{NDF}$ : 0.0/0

Left: -132.423+/-214.742  $\chi^2/\text{NDF}$ : 4.8/2

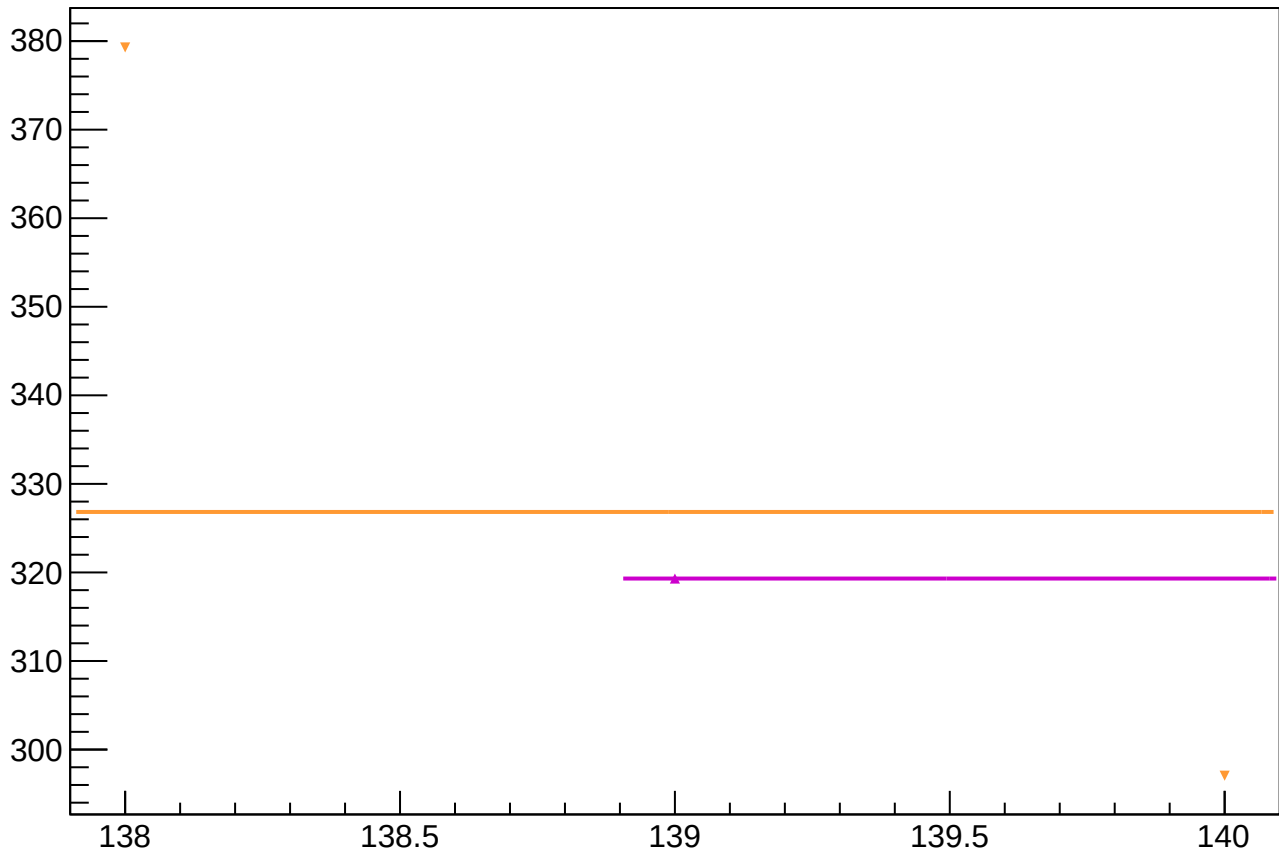
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -618.623+/-361.539  $\chi^2/\text{NDF}$ : 0.0/0

Out: 132.608+/-266.929  $\chi^2/\text{NDF}$ : 2.0/1

All: -132.423+/-214.742  $\chi^2/\text{NDF}$ : 4.8/2

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 326.830+/-0.189  $\chi^2/\text{NDF}$ : 43851.2/1

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

Left In: 319.310+/-0.256  $\chi^2/\text{NDF}$ : 0.0/0

Left: 324.177+/-0.152  $\chi^2/\text{NDF}$ : 44411.1/2

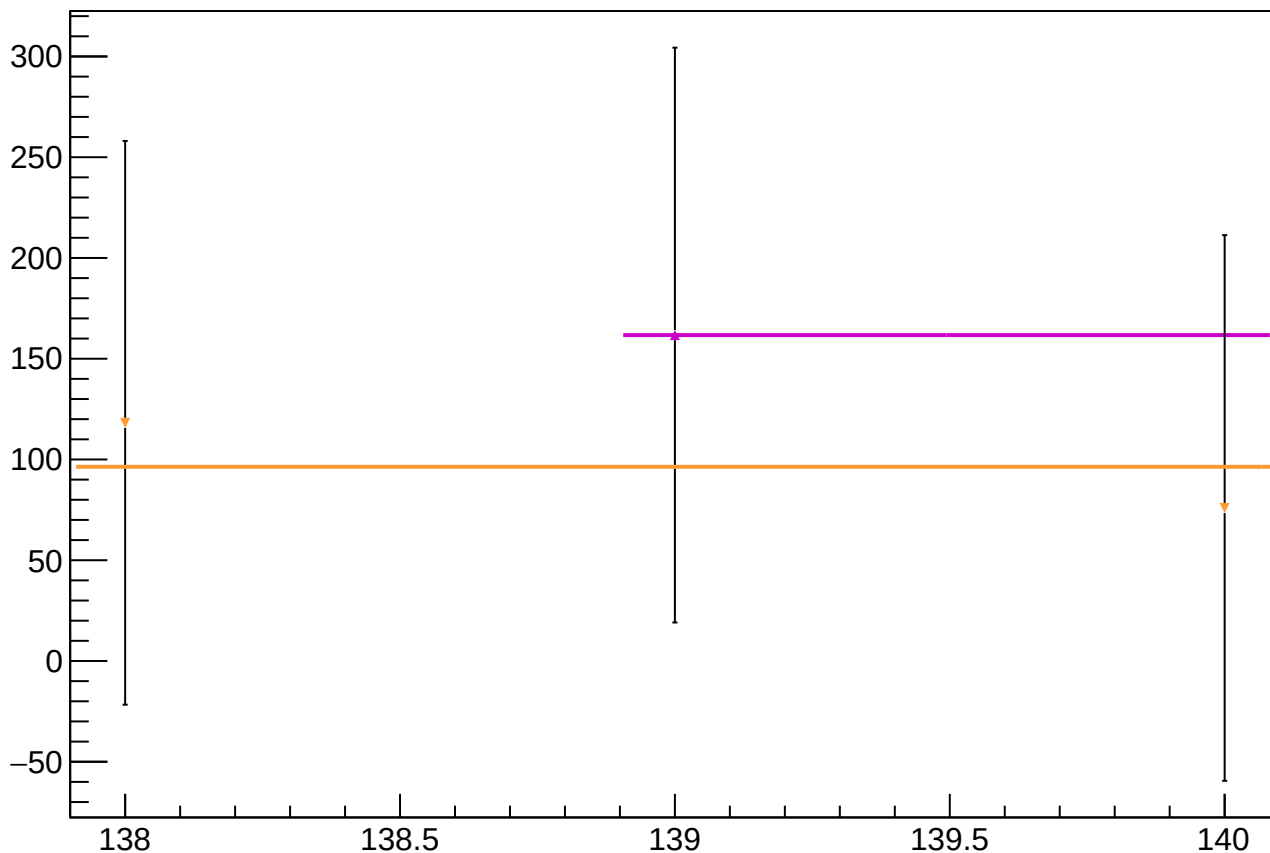
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 319.310+/-0.256  $\chi^2/\text{NDF}$ : 0.0/0

Out: 326.830+/-0.189  $\chi^2/\text{NDF}$ : 43851.2/1

All: 324.177+/-0.152  $\chi^2/\text{NDF}$ : 44411.1/2

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: 96.367+/-97.281  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 161.730+/-142.625  $\chi^2/\text{NDF}$ : 0.0/0

Left: 117.120+/-80.366  $\chi^2/\text{NDF}$ : 0.2/2

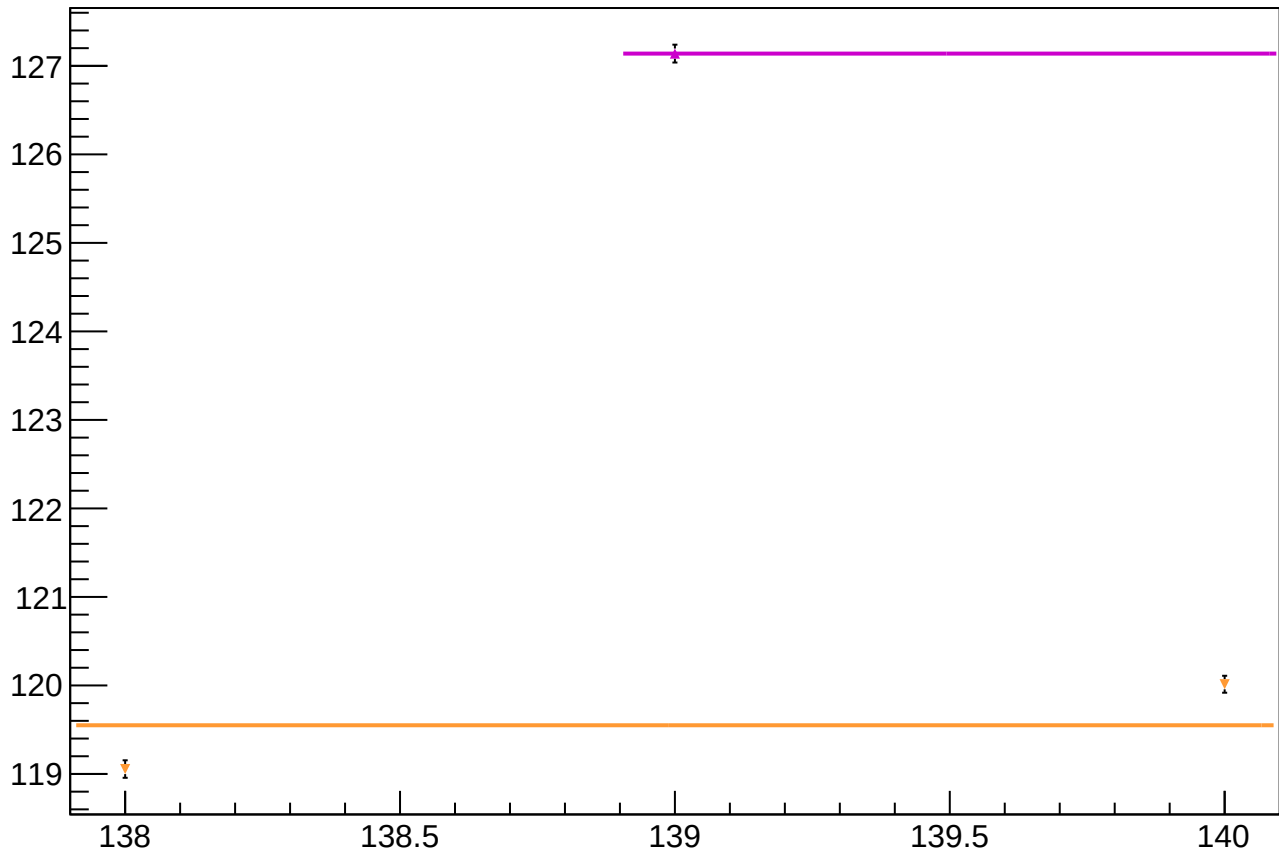
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 161.730+/-142.625  $\chi^2/\text{NDF}$ : 0.0/0

Out: 96.367+/-97.281  $\chi^2/\text{NDF}$ : 0.0/1

All: 117.120+/-80.366  $\chi^2/\text{NDF}$ : 0.2/2

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: 119.550+/-0.069  $\chi^2/\text{NDF}$ : 48.4/1

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

Left In: 127.139+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Left: 121.960+/-0.057  $\chi^2/\text{NDF}$ : 3912.5/2

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

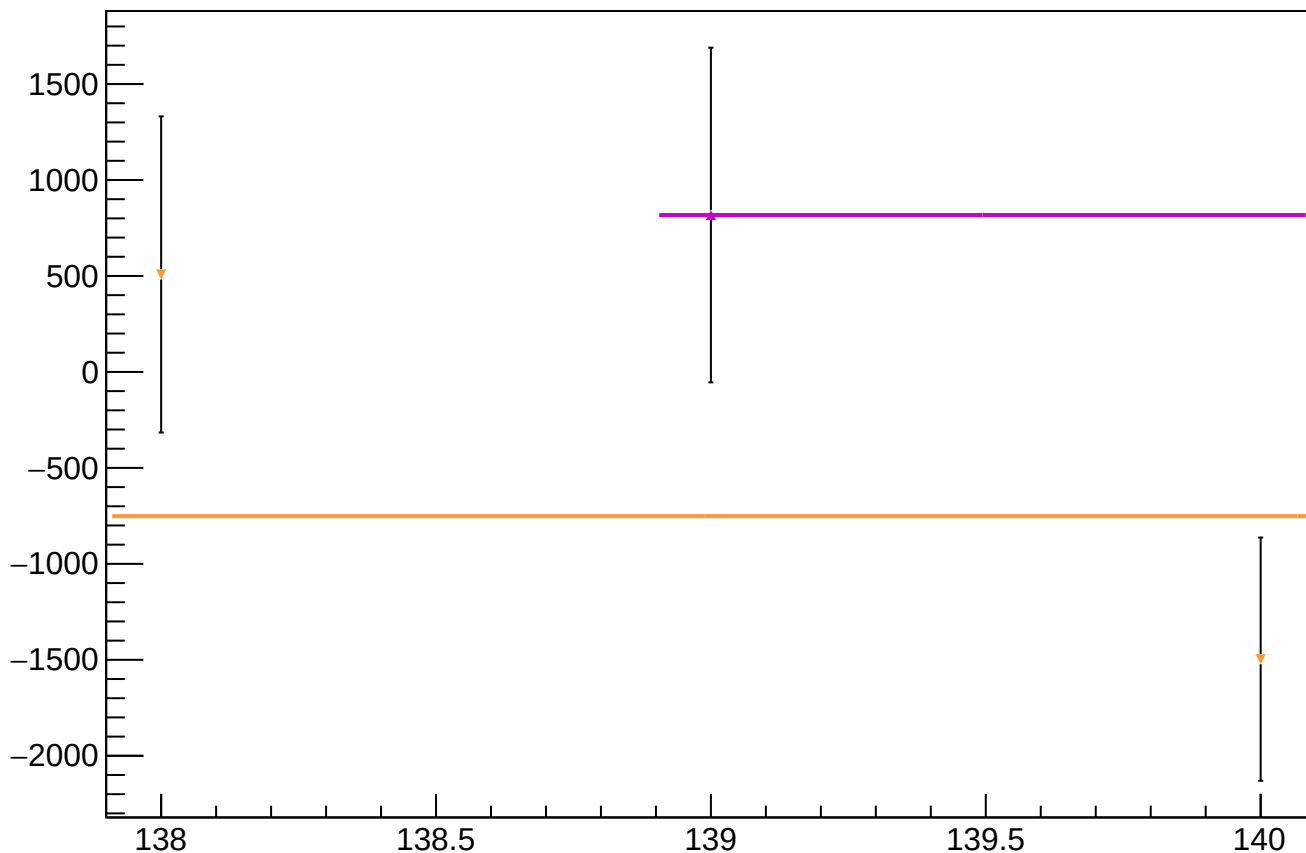
In: 127.139+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Out: 119.550+/-0.069  $\chi^2/\text{NDF}$ : 48.4/1

All: 121.960+/-0.057  $\chi^2/\text{NDF}$ : 3912.5/2



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: -751.227+/-502.262  $\chi^2/\text{NDF}$ : 3.7/1

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

Left In: 817.569+/-871.890  $\chi^2/\text{NDF}$ : 0.0/0

Left: -360.342+/-435.214  $\chi^2/\text{NDF}$ : 6.2/2

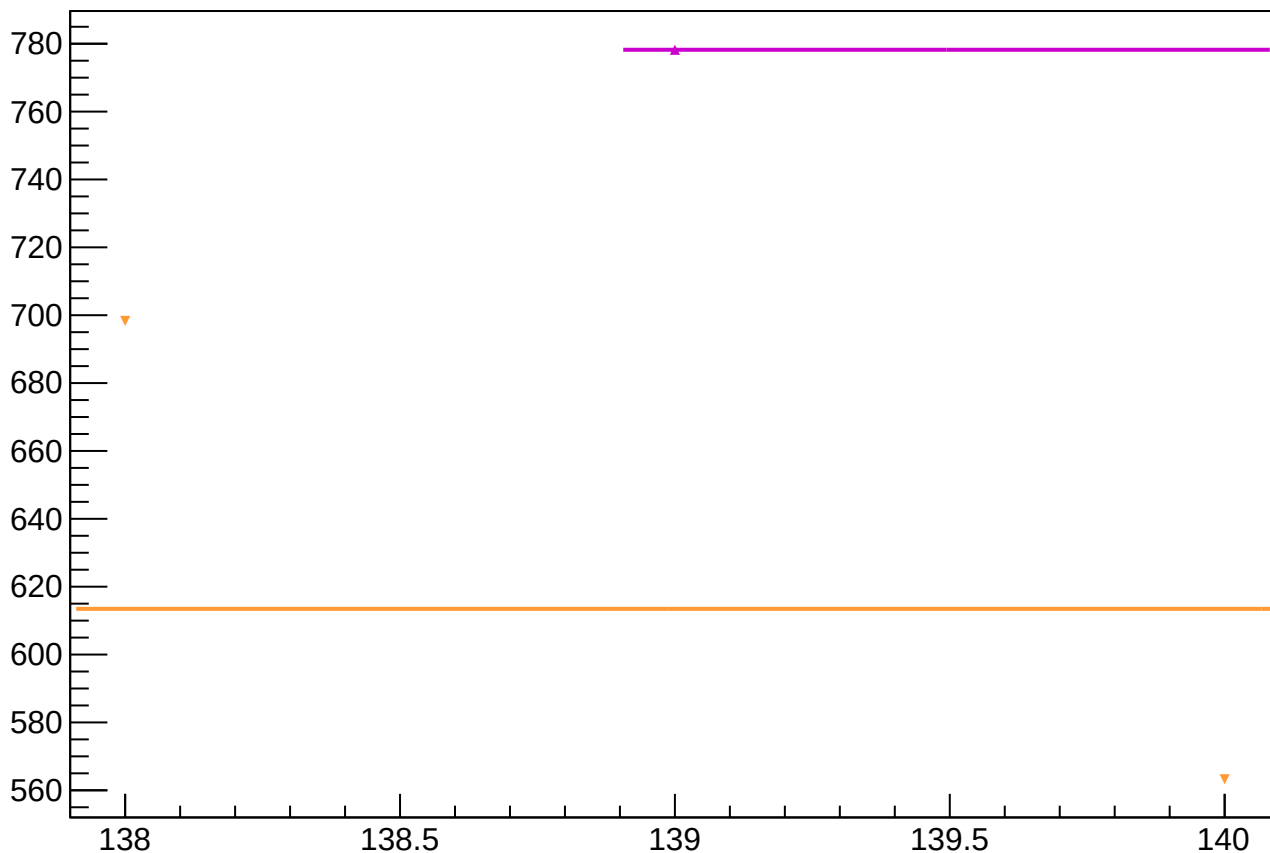
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 817.569+/-871.890  $\chi^2/\text{NDF}$ : 0.0/0

Out: -751.227+/-502.262  $\chi^2/\text{NDF}$ : 3.7/1

All: -360.342+/-435.214  $\chi^2/\text{NDF}$ : 6.2/2

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: 613.475+/-0.355  $\chi^2/\text{NDF}$ :33789.4/1

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

Left In: 778.222+/-0.617  $\chi^2/\text{NDF}$ :0.0/0

Left: 654.524+/-0.308  $\chi^2/\text{NDF}$ : 87404.5/2

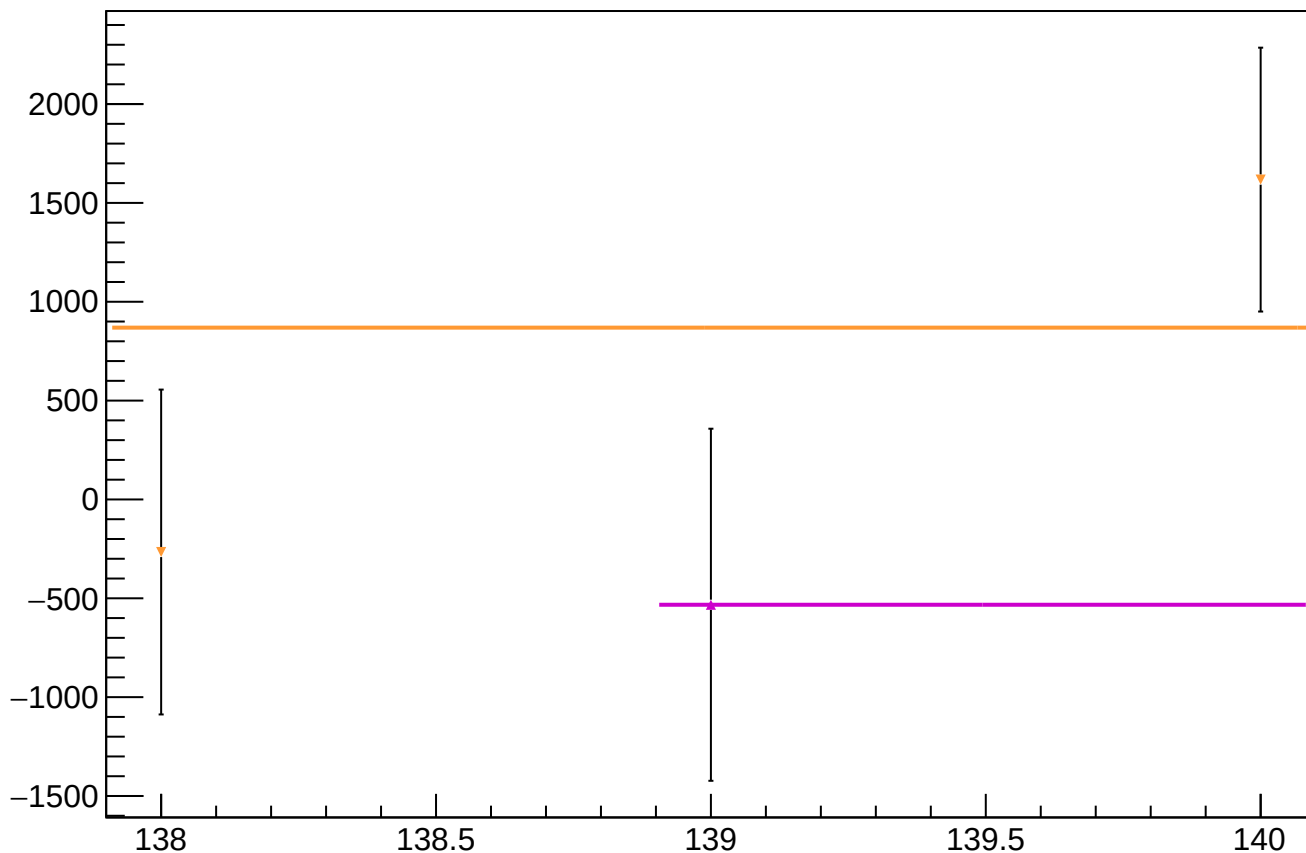
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 778.222+/-0.617  $\chi^2/\text{NDF}$ :0.0/0

Out: 613.475+/-0.355  $\chi^2/\text{NDF}$ :33789.4/1

All: 654.524+/-0.308  $\chi^2/\text{NDF}$ : 87404.5/2

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 869.108+/-518.014  $\chi^2/\text{NDF}$ : 3.2/1

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

Left In: -532.668+/-890.474  $\chi^2/\text{NDF}$ : 0.0/0

Left: 514.678+/-447.762  $\chi^2/\text{NDF}$ : 5.0/2

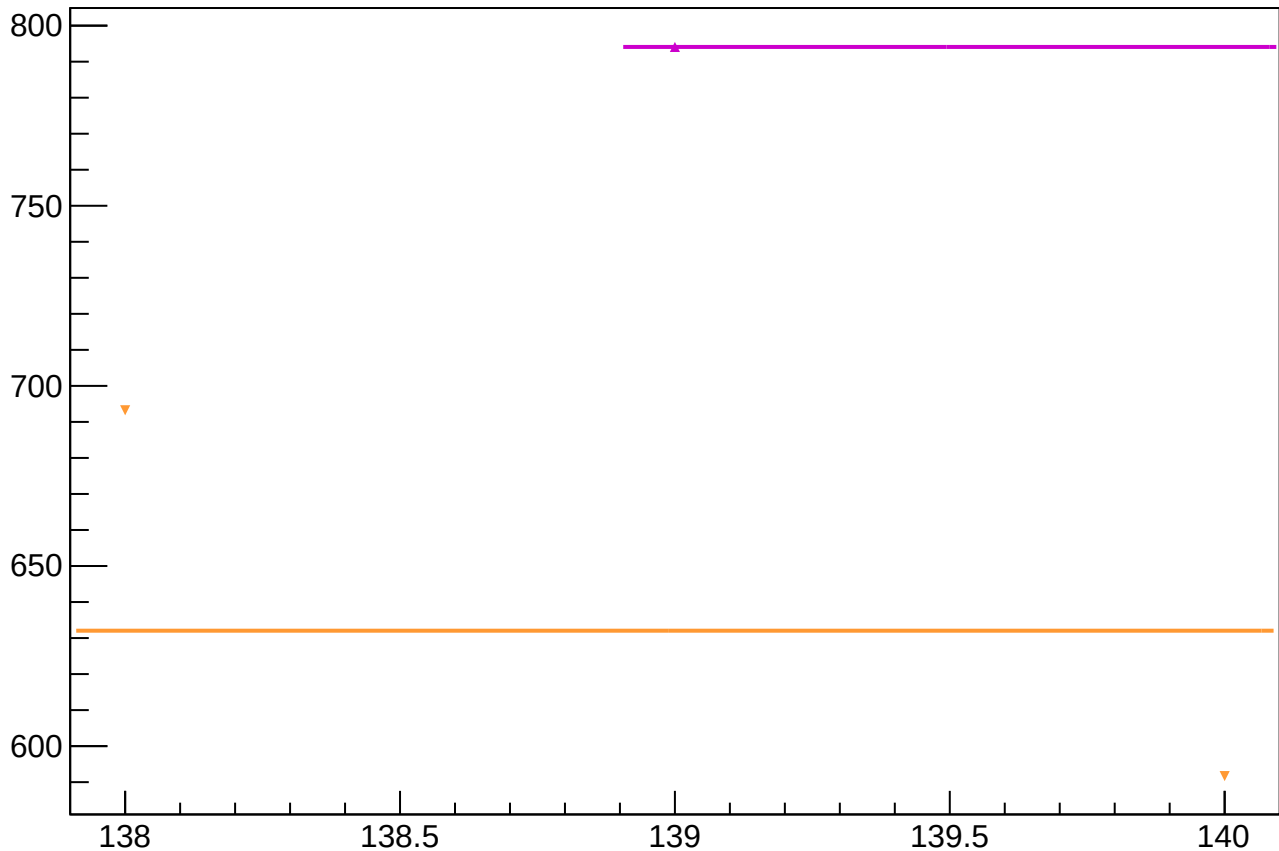
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -532.668+/-890.474  $\chi^2/\text{NDF}$ : 0.0/0

Out: 869.108+/-518.014  $\chi^2/\text{NDF}$ : 3.2/1

All: 514.678+/-447.762  $\chi^2/\text{NDF}$ : 5.0/2

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 632.044+/-0.366  $\chi^2/\text{NDF}$ :18406.4/1

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

Left In: 794.089+/-0.630  $\chi^2/\text{NDF}$ :0.0/0

Left: 673.016+/-0.317  $\chi^2/\text{NDF}$ : 67891.1/2

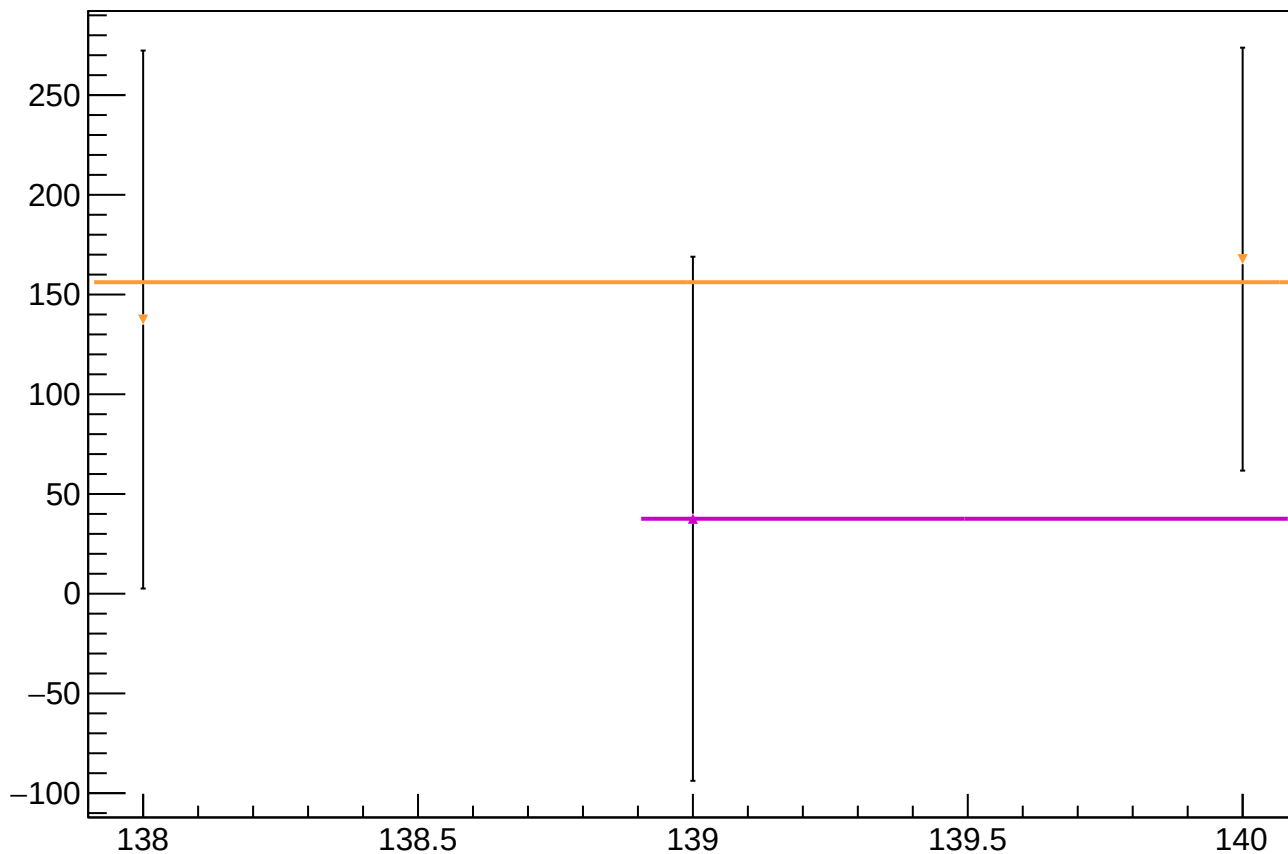
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 794.089+/-0.630  $\chi^2/\text{NDF}$ :0.0/0

Out: 632.044+/-0.366  $\chi^2/\text{NDF}$ :18406.4/1

All: 673.016+/-0.317  $\chi^2/\text{NDF}$ : 67891.1/2

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 156.180+/-83.355  $\chi^2$ /NDF:0.0/1

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

Left In: 37.581+/-131.390  $\chi^2$ /NDF:0.0/0

Left: 122.145+/-70.386  $\chi^2$ /NDF: 0.6/2

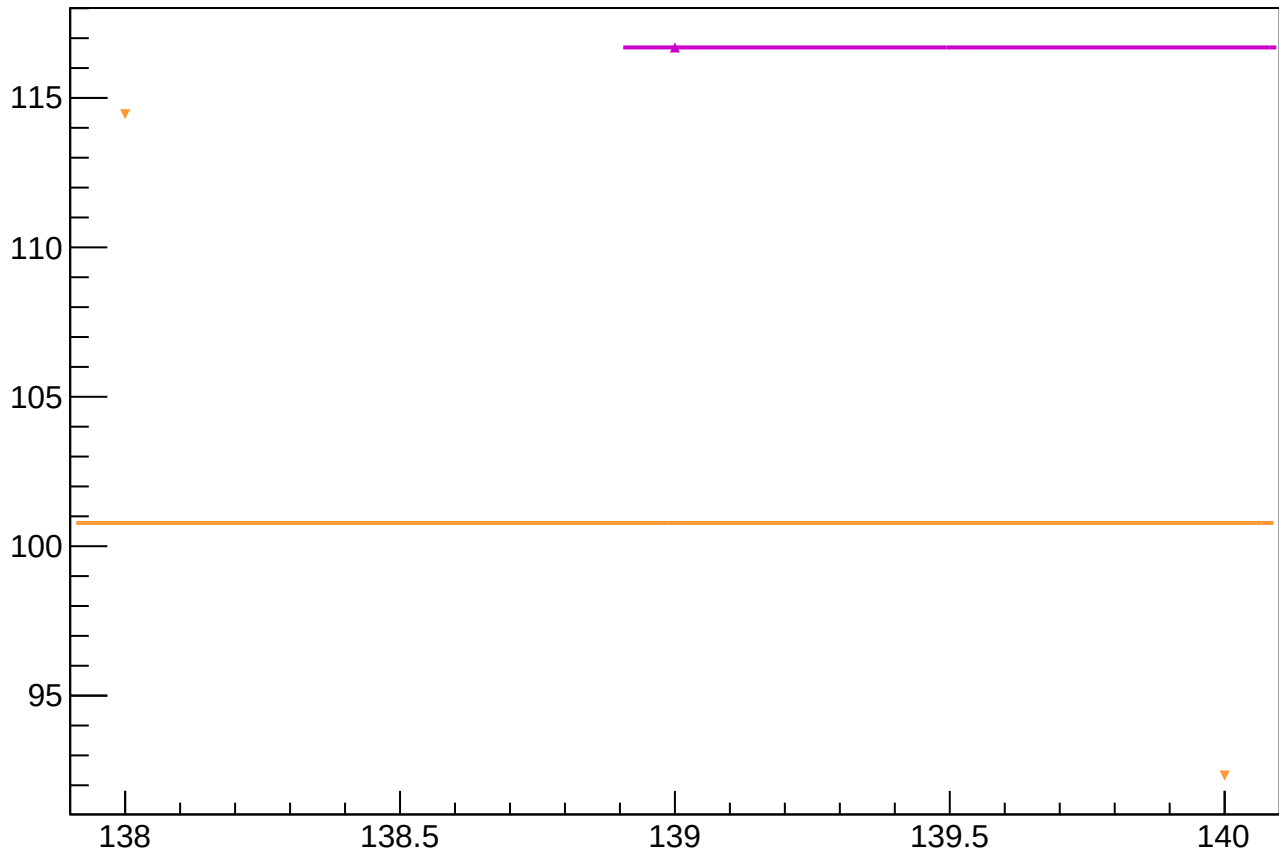
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 37.581+/-131.390  $\chi^2$ /NDF:0.0/0

Out: 156.180+/-83.355  $\chi^2$ /NDF:0.0/1

All: 122.145+/-70.386  $\chi^2$ /NDF: 0.6/2

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: 100.778+/-0.059  $\chi^2/\text{NDF}$ : 33276.6/1

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

Left In: 116.690+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Left: 105.345+/-0.050  $\chi^2/\text{NDF}$ : 54190.0/2

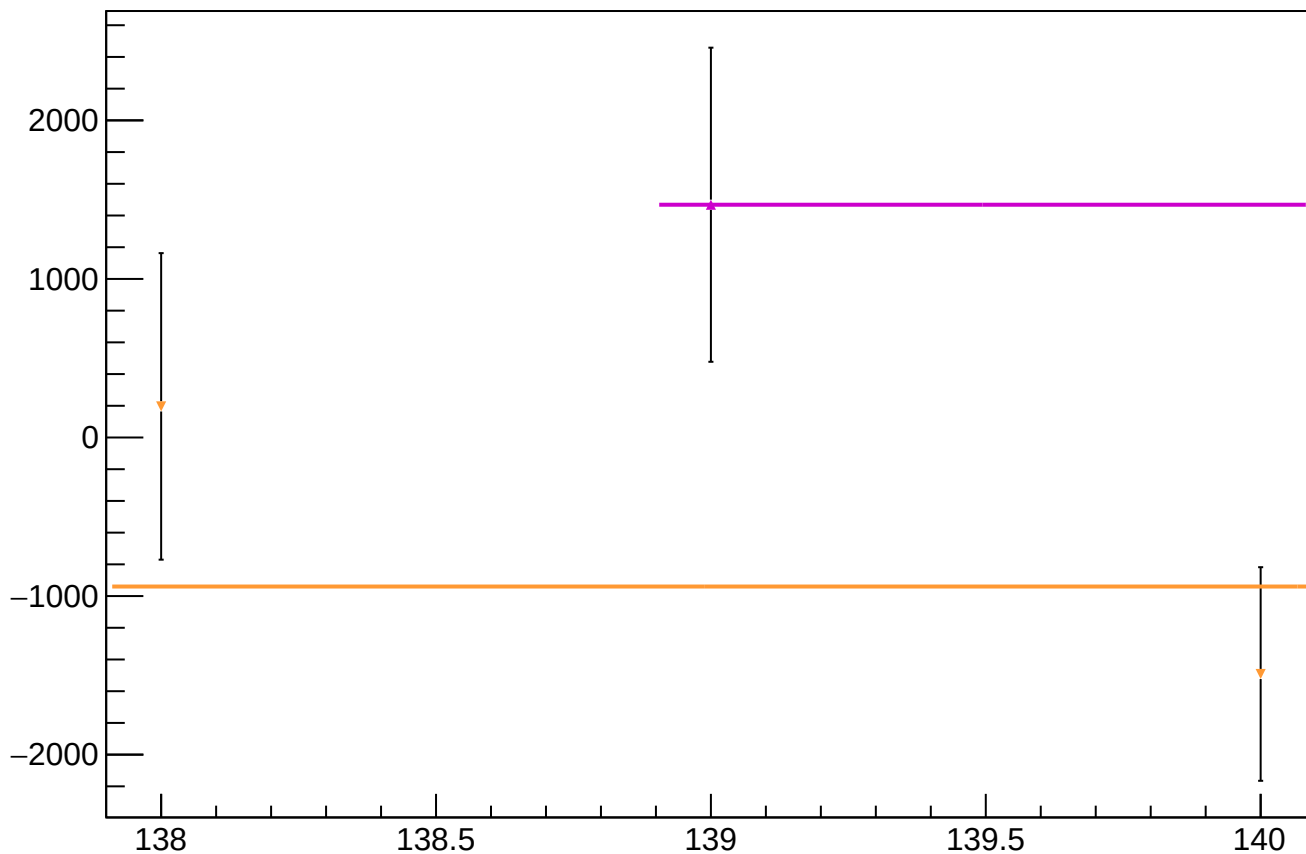
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 116.690+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Out: 100.778+/-0.059  $\chi^2/\text{NDF}$ : 33276.6/1

All: 105.345+/-0.050  $\chi^2/\text{NDF}$ : 54190.0/2

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: -939.869+/-552.619  $\chi^2/\text{NDF}$ : 2.1/1

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

Left In: 1467.956+/-990.499  $\chi^2/\text{NDF}$ : 0.0/0

Left: -368.291+/-482.591  $\chi^2/\text{NDF}$ : 6.6/2

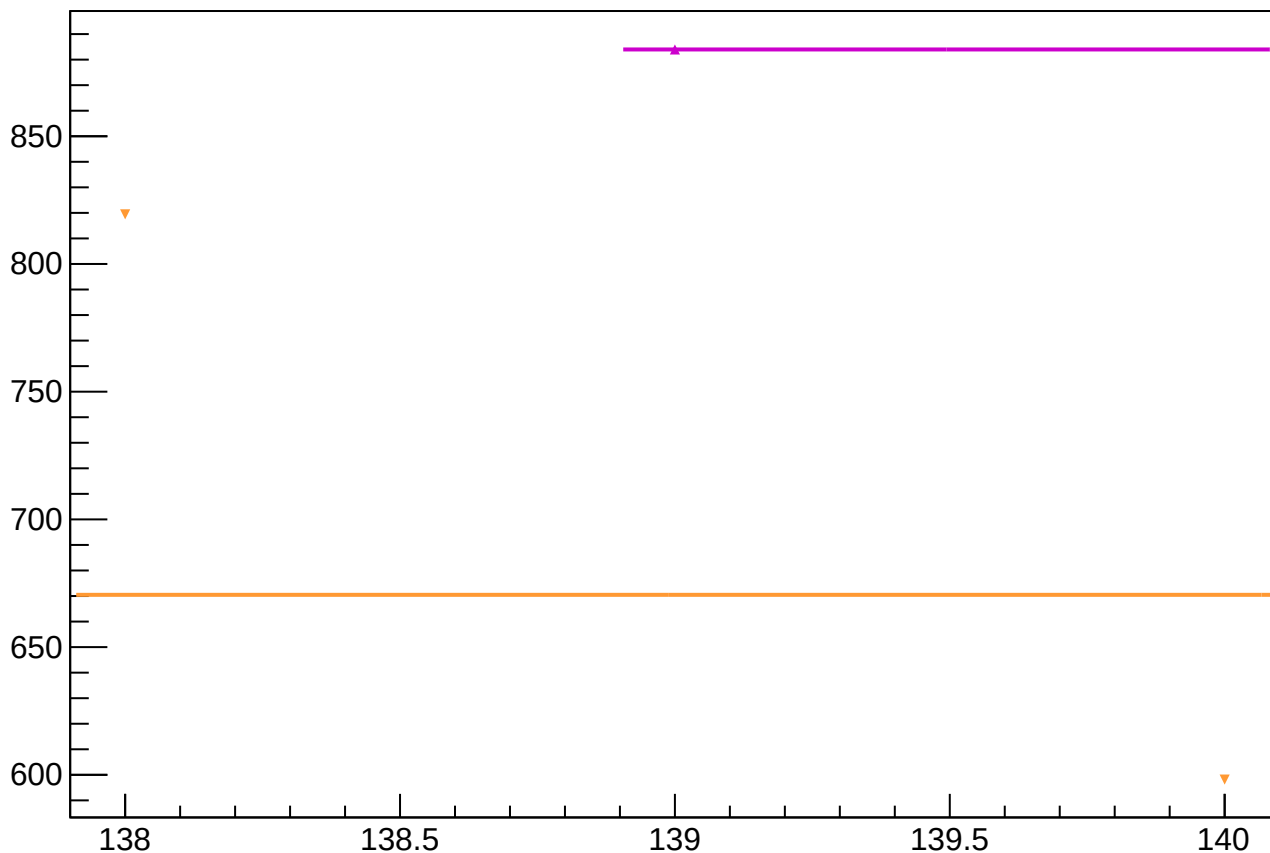
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1467.956+/-990.499  $\chi^2/\text{NDF}$ : 0.0/0

Out: -939.869+/-552.619  $\chi^2/\text{NDF}$ : 2.1/1

All: -368.291+/-482.591  $\chi^2/\text{NDF}$ : 6.6/2

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: 670.468+/-0.391  $\chi^2/\text{NDF}$ : 70560.2/1

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

Left In: 883.980+/-0.700  $\chi^2/\text{NDF}$ : 0.0/0

Left: 721.153+/-0.341  $\chi^2/\text{NDF}$ : 141431.8/2

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

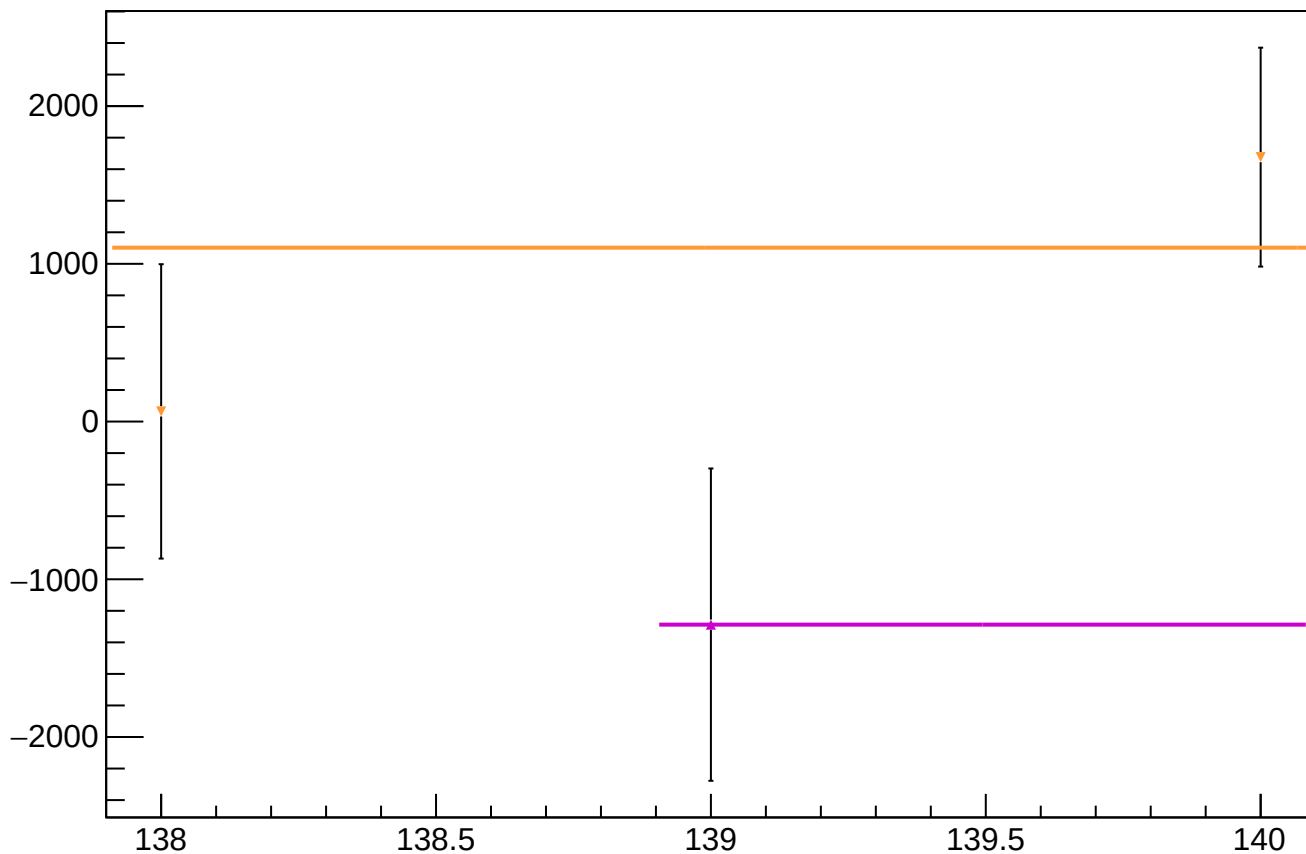
In: 883.980+/-0.700  $\chi^2/\text{NDF}$ : 0.0/0

Out: 670.468+/-0.391  $\chi^2/\text{NDF}$ : 70560.2/1

All: 721.153+/-0.341  $\chi^2/\text{NDF}$ : 141431.8/2



asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1102.463+/-556.872  $\chi^2/\text{NDF}$ :1.9/1

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

Left In: -1287.571+/-990.108  $\chi^2/\text{NDF}$ :0.0/0

Left: 528.104+/-485.369  $\chi^2/\text{NDF}$ : 6.3/2

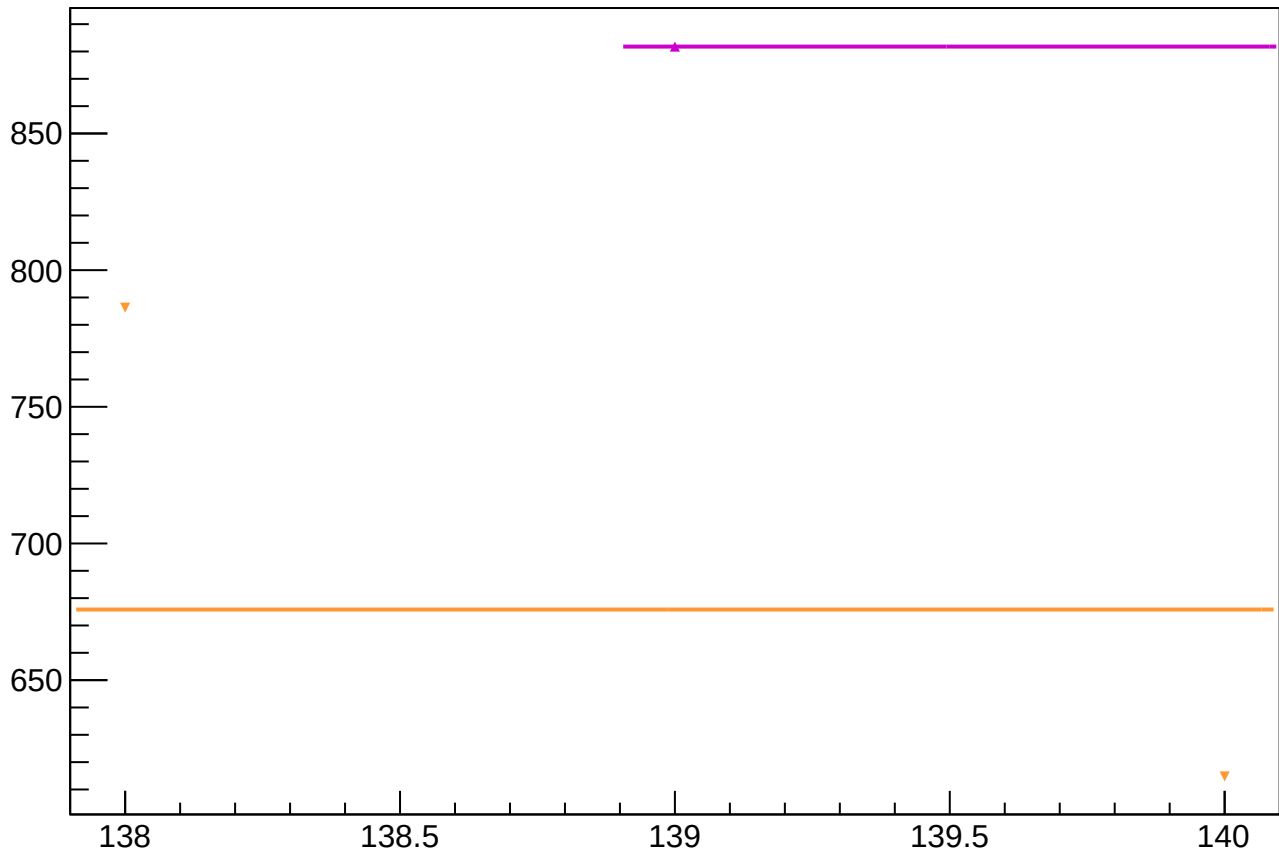
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1287.571+/-990.108  $\chi^2/\text{NDF}$ :0.0/0

Out: 1102.463+/-556.872  $\chi^2/\text{NDF}$ :1.9/1

All: 528.104+/-485.369  $\chi^2/\text{NDF}$ : 6.3/2

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 675.836+/-0.394  $\chi^2/\text{NDF}$ : 43500.4/1

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

Left In: 881.793+/-0.700  $\chi^2/\text{NDF}$ : 0.0/0

Left: 725.331+/-0.343  $\chi^2/\text{NDF}$ : 109243.5/2

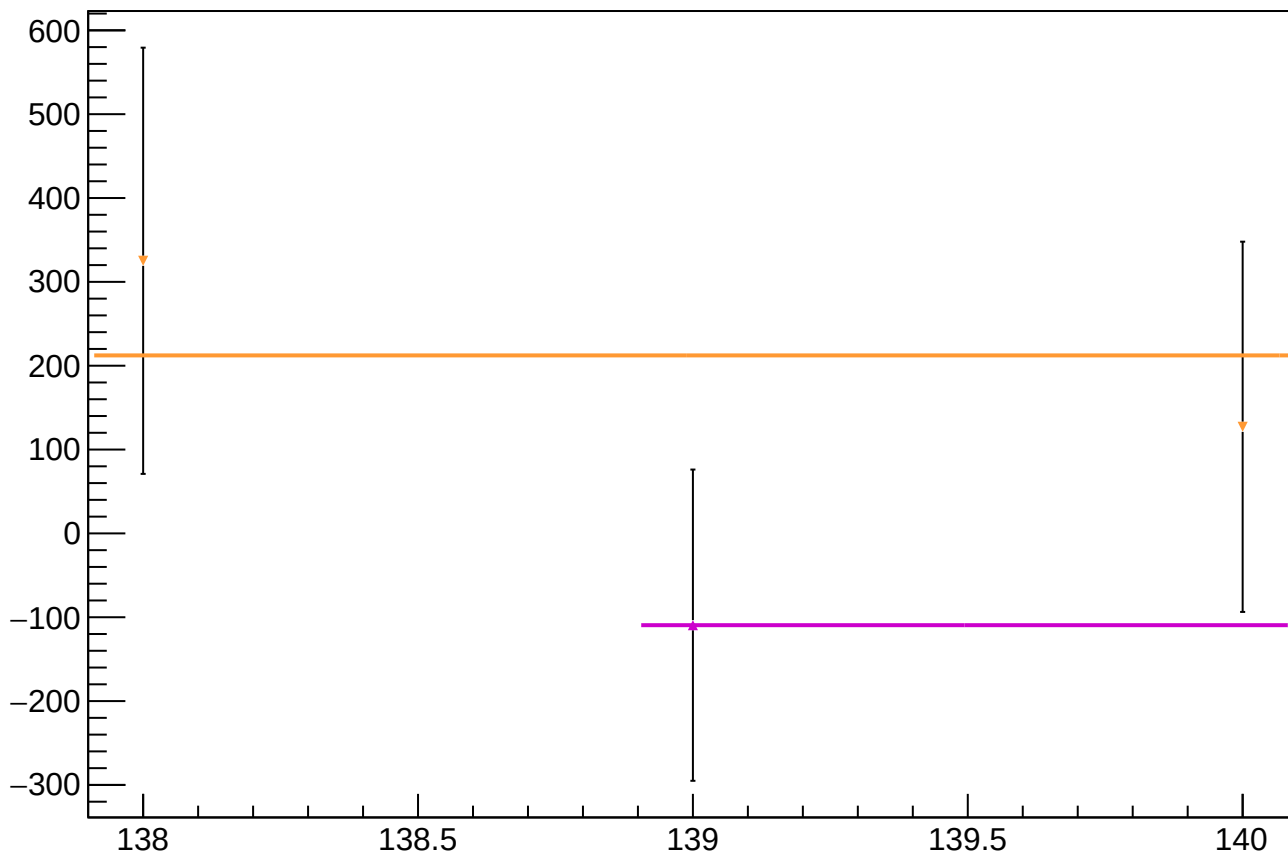
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 881.793+/-0.700  $\chi^2/\text{NDF}$ : 0.0/0

Out: 675.836+/-0.394  $\chi^2/\text{NDF}$ : 43500.4/1

All: 725.331+/-0.343  $\chi^2/\text{NDF}$ : 109243.5/2

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 212.295+/-166.689  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: -109.465+/-185.608  $\chi^2/\text{NDF}$ : 0.0/0

Left: 68.644+/-124.018  $\chi^2/\text{NDF}$ : 2.0/2

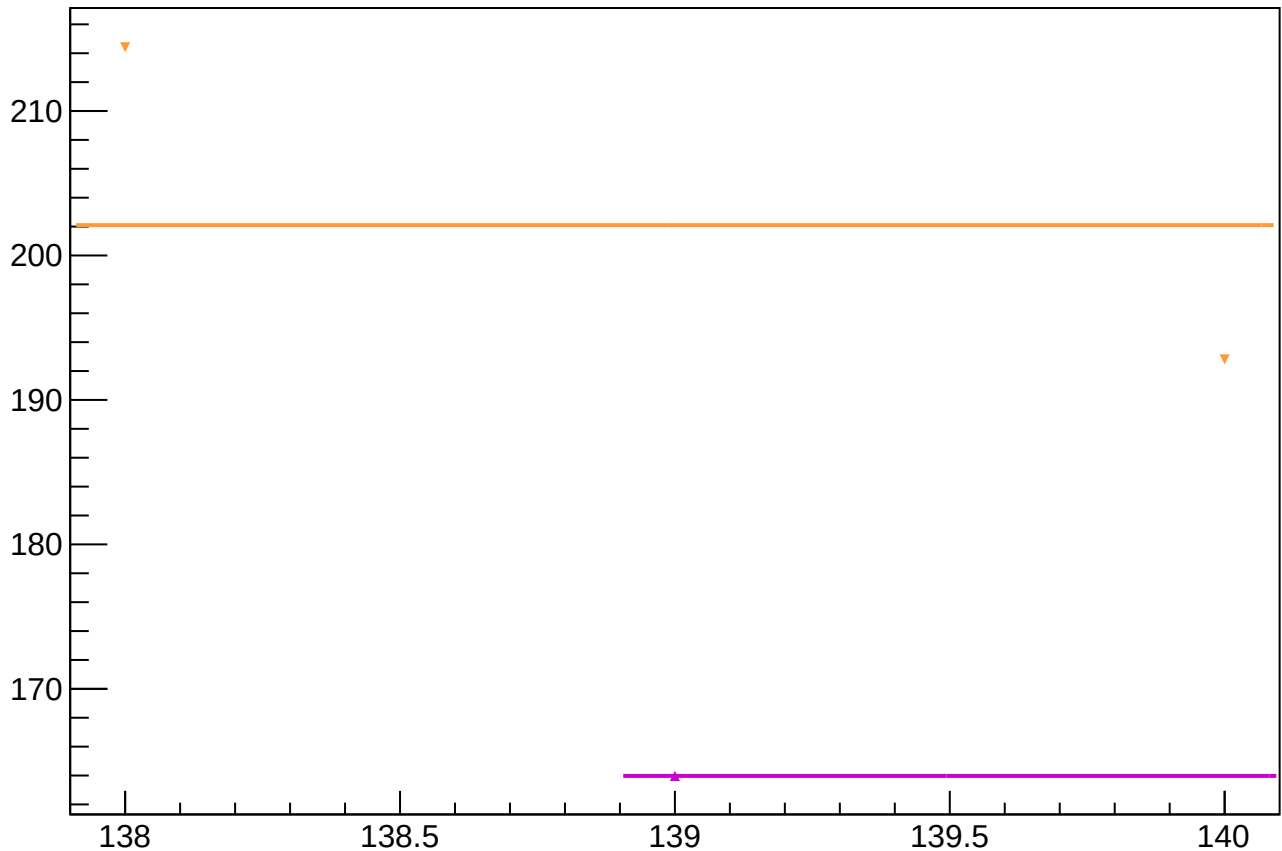
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -109.465+/-185.608  $\chi^2/\text{NDF}$ : 0.0/0

Out: 212.295+/-166.689  $\chi^2/\text{NDF}$ : 0.3/1

All: 68.644+/-124.018  $\chi^2/\text{NDF}$ : 2.0/2

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: 202.099+/-0.118  $\chi^2/\text{NDF}$ : 8236.4/1

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

Left In: 163.974+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Left: 185.078+/-0.088  $\chi^2/\text{NDF}$ : 54947.4/2

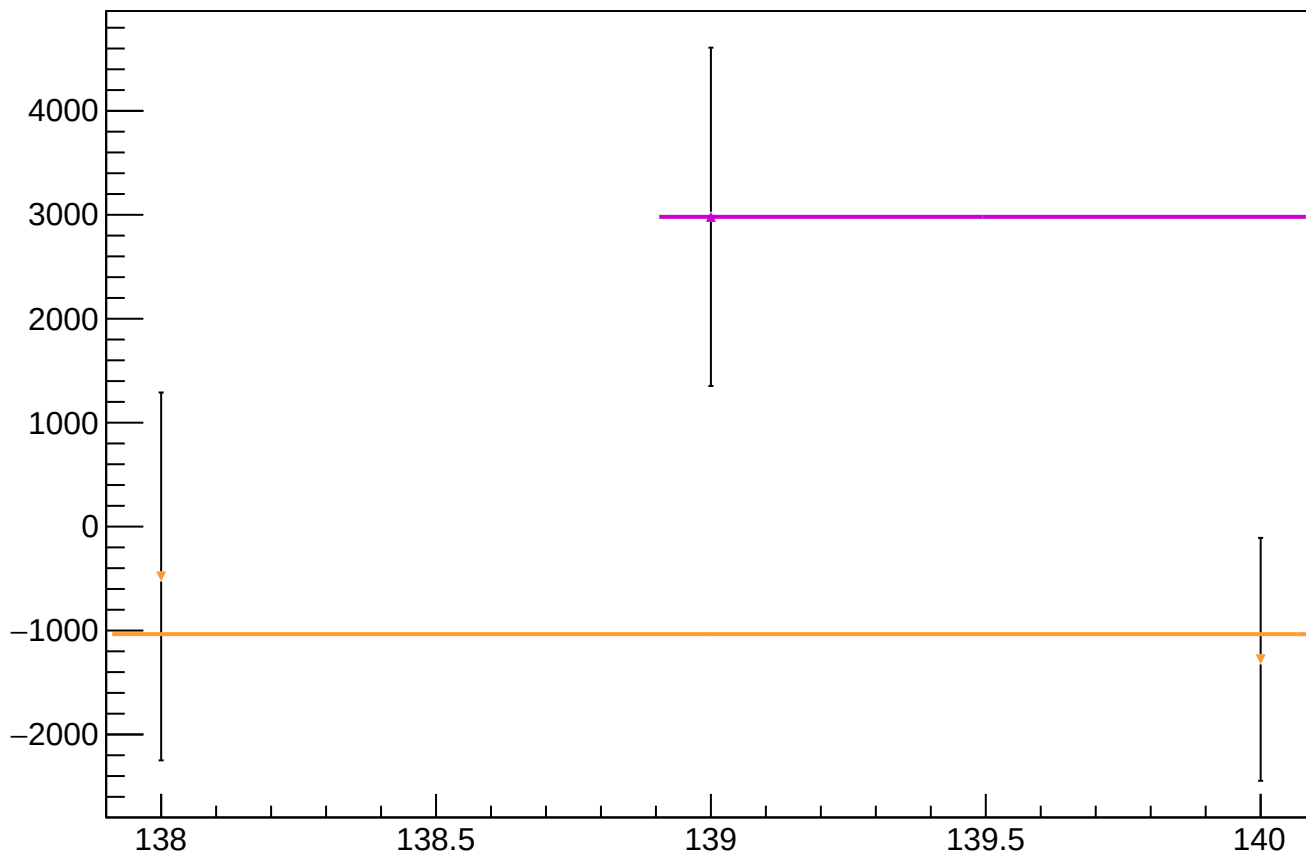
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 163.974+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Out: 202.099+/-0.118  $\chi^2/\text{NDF}$ : 8236.4/1

All: 185.078+/-0.088  $\chi^2/\text{NDF}$ : 54947.4/2

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: -1034.917+/-975.174  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: 2980.594+/-1627.517  $\chi^2/\text{NDF}$ : 0.0/0

Left: 25.874+/-836.508  $\chi^2/\text{NDF}$ : 4.6/2

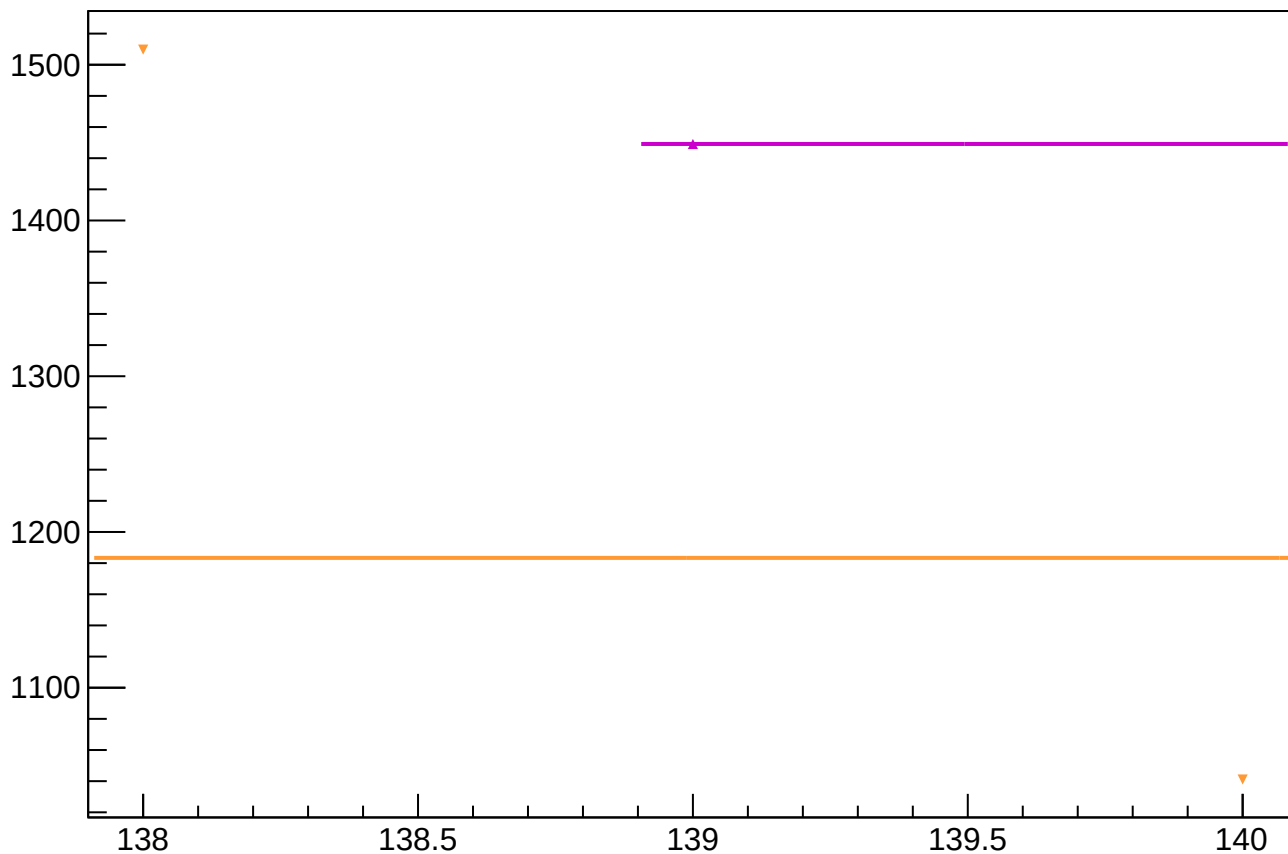
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2980.594+/-1627.517  $\chi^2/\text{NDF}$ : 0.0/0

Out: -1034.917+/-975.174  $\chi^2/\text{NDF}$ : 0.1/1

All: 25.874+/-836.508  $\chi^2/\text{NDF}$ : 4.6/2

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: 1183.365+/-0.690  $\chi^2/\text{NDF}$ : 97671.1/1

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

Left In: 1449.129+/-1.151  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1253.573+/-0.592  $\chi^2/\text{NDF}$ : 136912.5/2

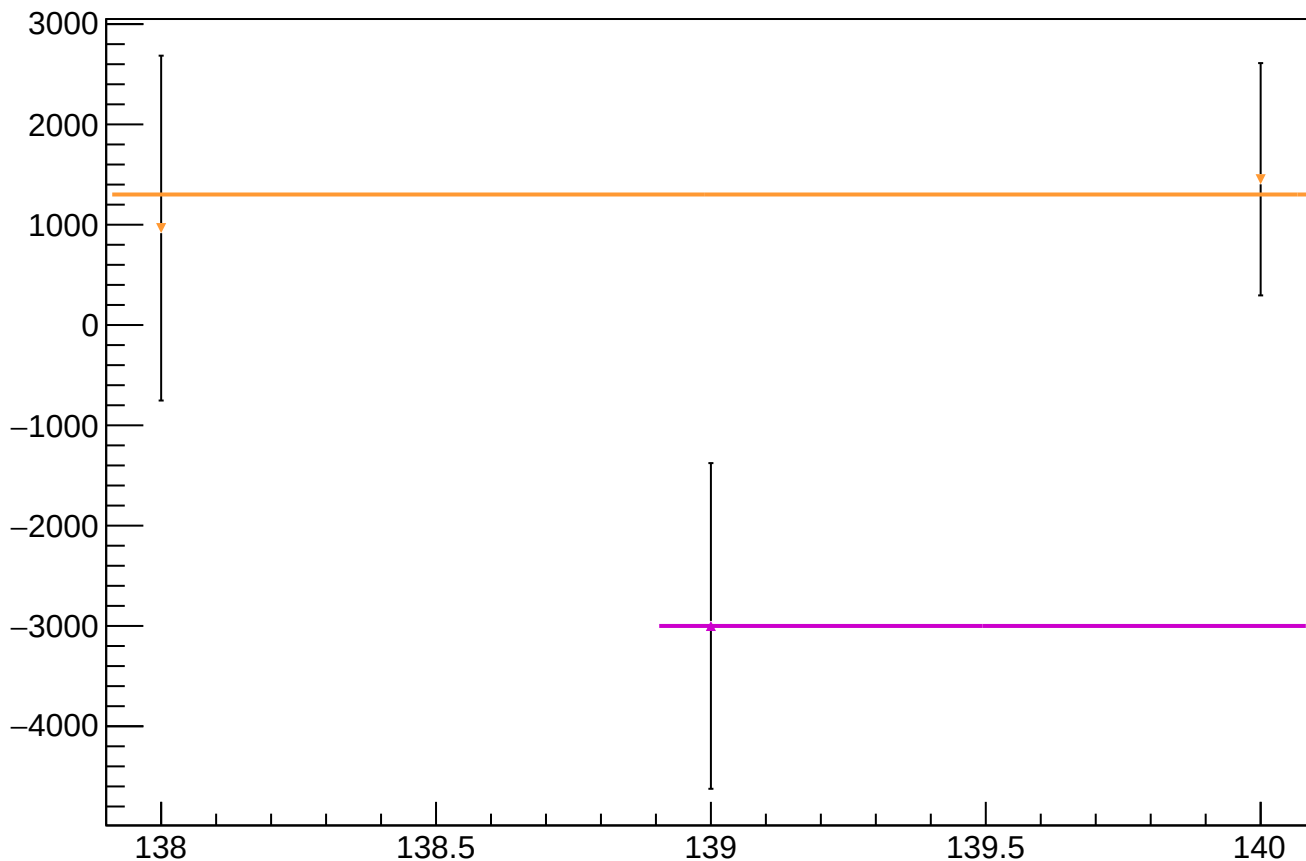
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1449.129+/-1.151  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1183.365+/-0.690  $\chi^2/\text{NDF}$ : 97671.1/1

All: 1253.573+/-0.592  $\chi^2/\text{NDF}$ : 136912.5/2

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1301.182+/-960.368  $\chi^2$ /NDF: 0.1/1

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

Left In: -3000.057+/-1623.445  $\chi^2$ /NDF: 0.0/0

Left: 186.175+/-826.570  $\chi^2$ /NDF: 5.3/2

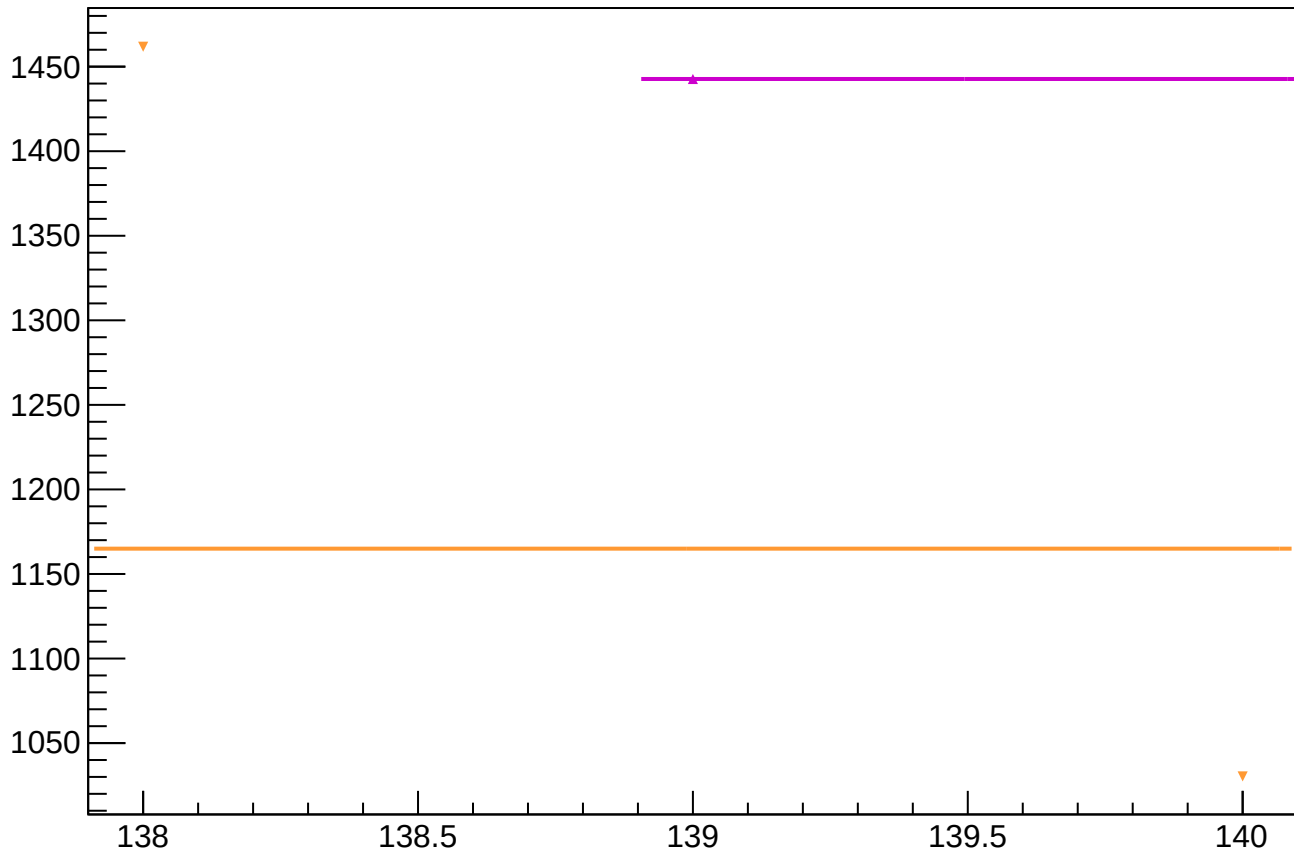
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -3000.057+/-1623.445  $\chi^2$ /NDF: 0.0/0

Out: 1301.182+/-960.368  $\chi^2$ /NDF: 0.1/1

All: 186.175+/-826.570  $\chi^2$ /NDF: 5.3/2

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1164.980+/-0.679  $\chi^2/\text{NDF}$ : 86681.2/1

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

Left In: 1442.705+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1236.974+/-0.584  $\chi^2/\text{NDF}$ : 130039.1/2

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

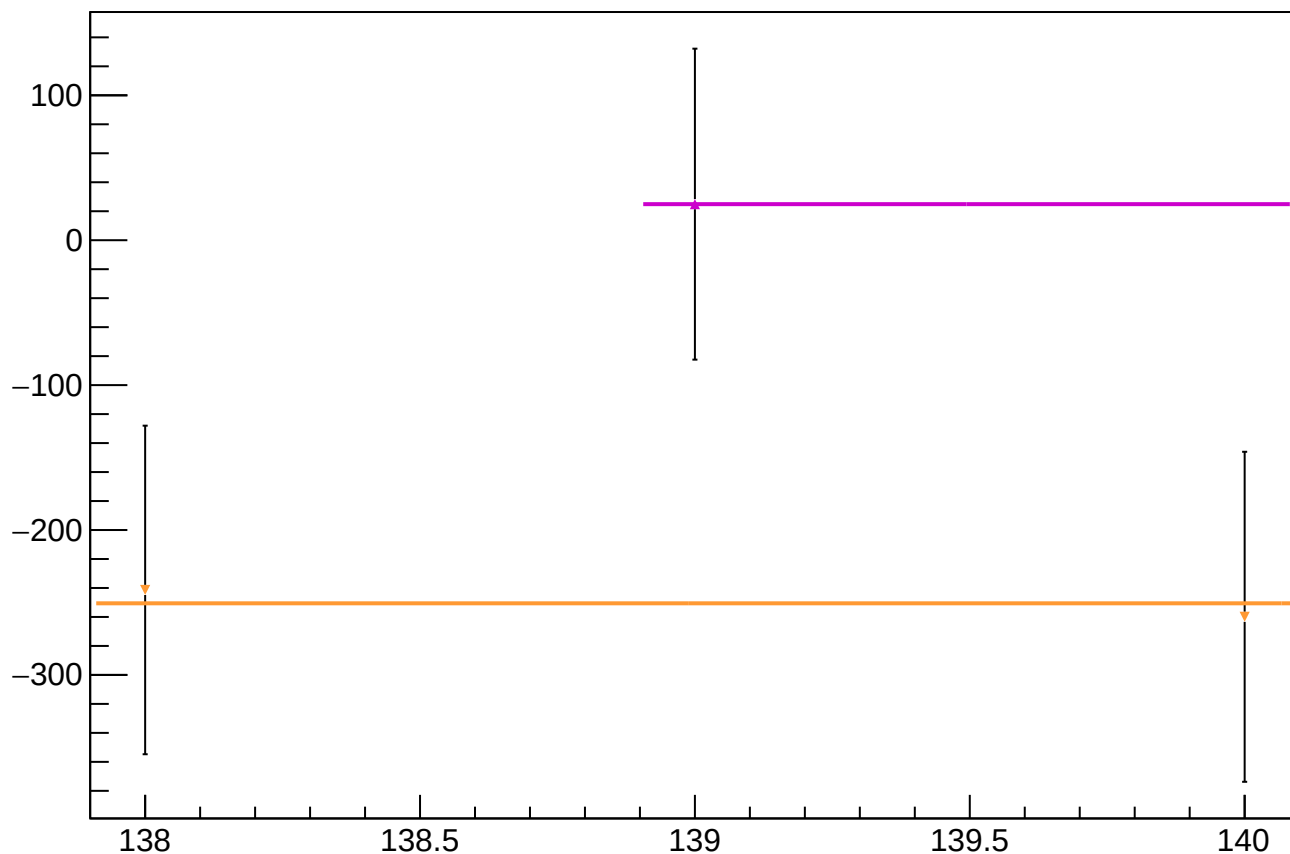
In: 1442.705+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1164.980+/-0.679  $\chi^2/\text{NDF}$ : 86681.2/1

All: 1236.974+/-0.584  $\chi^2/\text{NDF}$ : 130039.1/2



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: -250.583+/-80.346  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 24.885+/-107.300  $\chi^2/\text{NDF}$ : 0.0/0

Left: -151.618+/-64.314  $\chi^2/\text{NDF}$ : 4.2/2

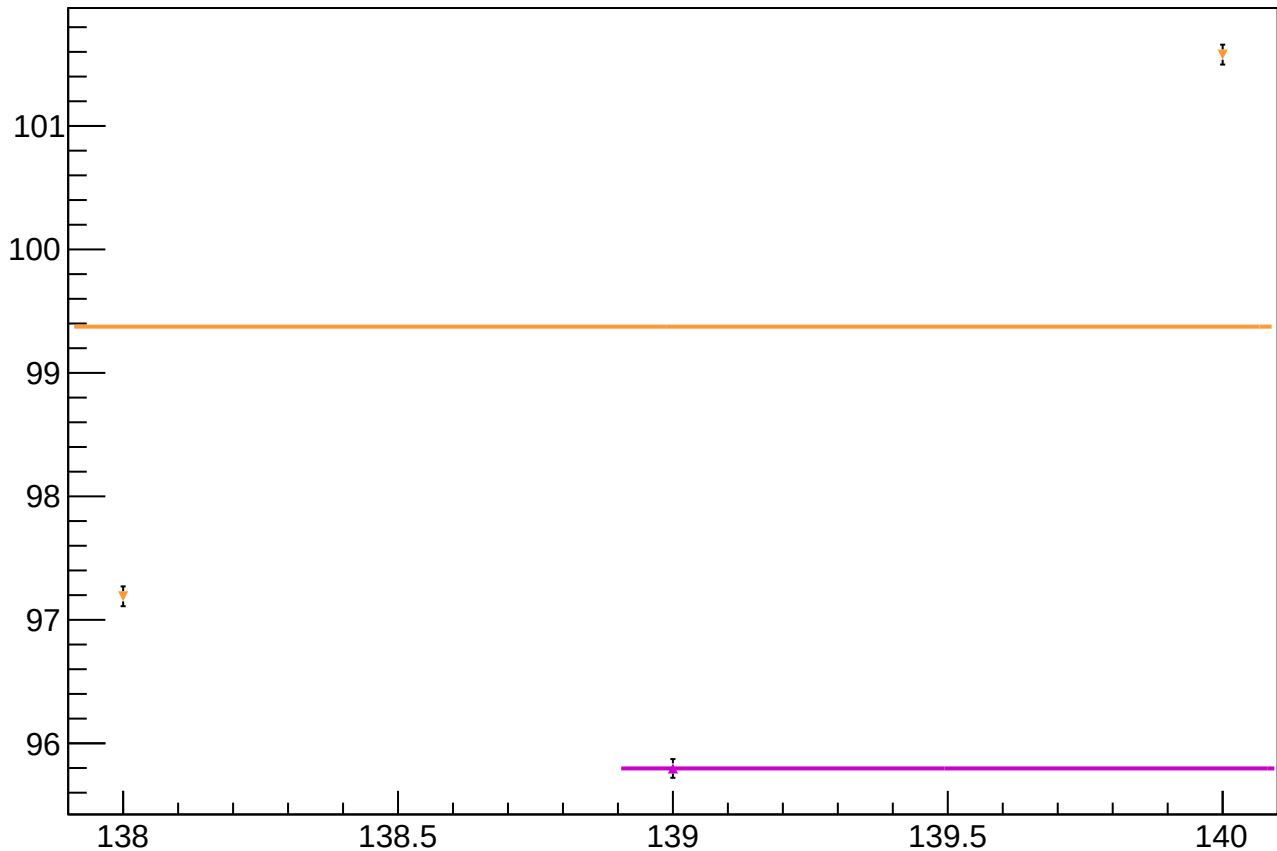
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.885+/-107.300  $\chi^2/\text{NDF}$ : 0.0/0

Out: -250.583+/-80.346  $\chi^2/\text{NDF}$ : 0.0/1

All: -151.618+/-64.314  $\chi^2/\text{NDF}$ : 4.2/2

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: 99.375+/-0.057  $\chi^2/\text{NDF}$ :1490.8/1

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

Left In: 95.797+/-0.076  $\chi^2/\text{NDF}$ :0.0/0

Left: 98.089+/-0.045  $\chi^2/\text{NDF}$ : 2915.8/2

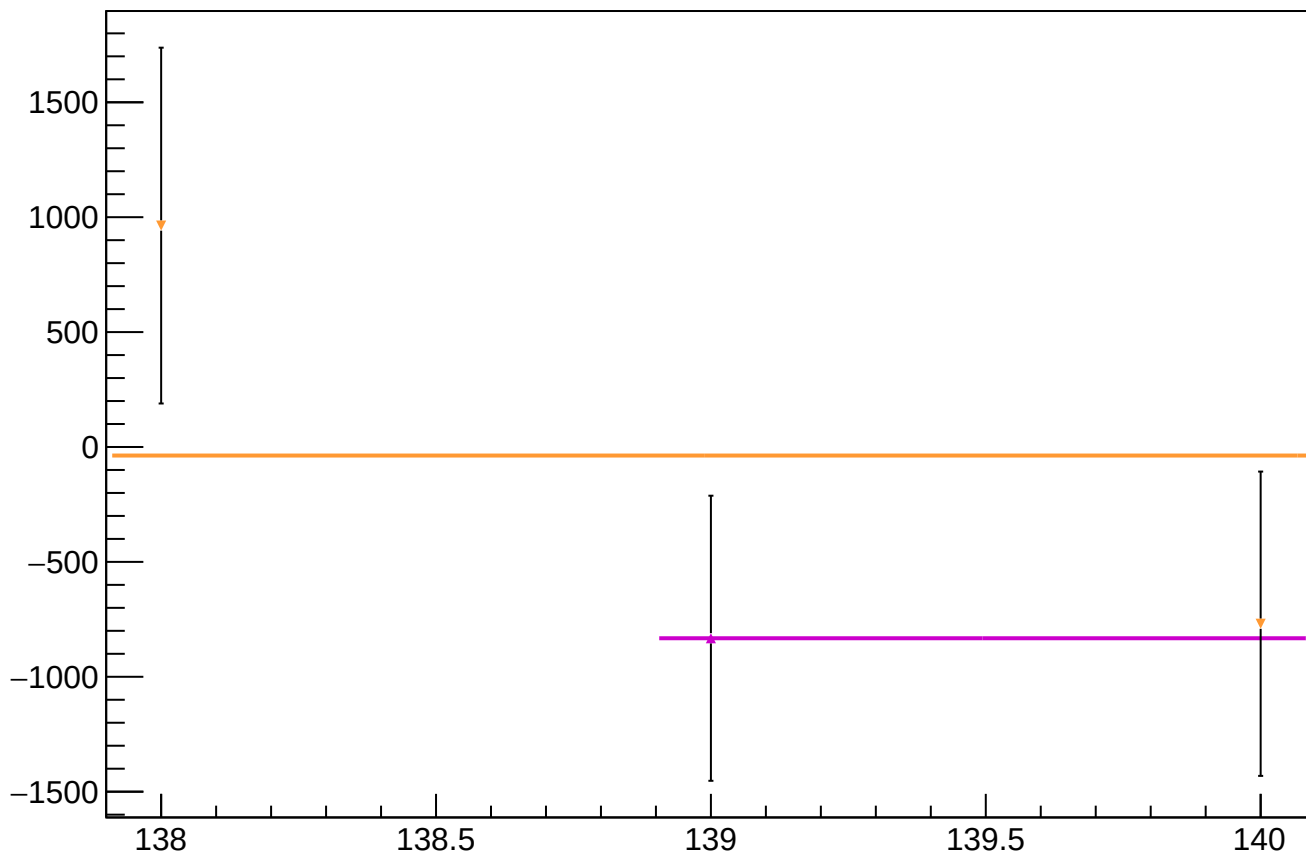
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 95.797+/-0.076  $\chi^2/\text{NDF}$ :0.0/0

Out: 99.375+/-0.057  $\chi^2/\text{NDF}$ :1490.8/1

All: 98.089+/-0.045  $\chi^2/\text{NDF}$ : 2915.8/2

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: -37.203+/-503.201  $\chi^2/\text{NDF}$ :2.9/1

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

Left In: -832.321+/-620.313  $\chi^2/\text{NDF}$ :0.0/0

Left: -352.772+/-390.789  $\chi^2/\text{NDF}$ : 3.9/2

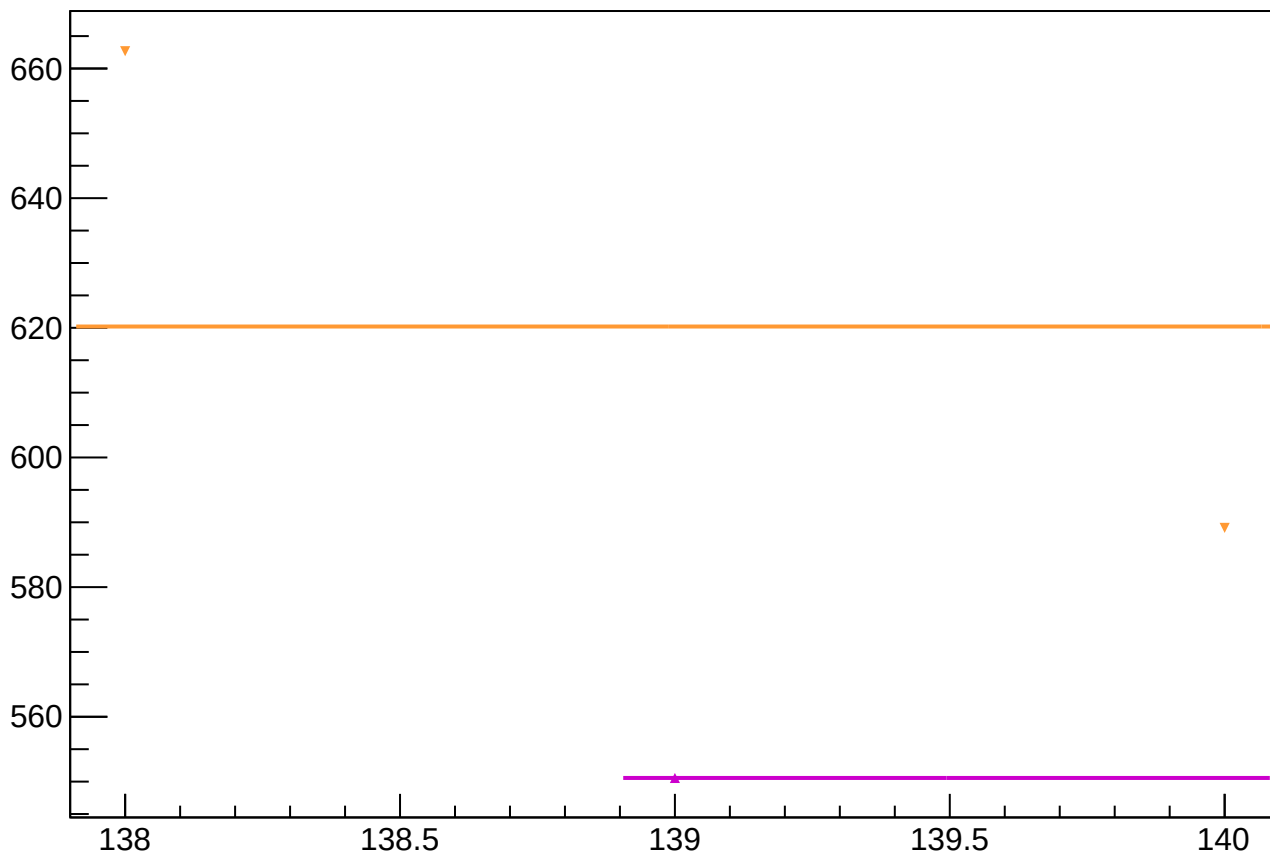
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -832.321+/-620.313  $\chi^2/\text{NDF}$ :0.0/0

Out: -37.203+/-503.201  $\chi^2/\text{NDF}$ :2.9/1

All: -352.772+/-390.789  $\chi^2/\text{NDF}$ : 3.9/2

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: 620.201+/-0.356  $\chi^2/\text{NDF}$ :10419.2/1

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

Left In: 550.563+/-0.439  $\chi^2/\text{NDF}$ :0.0/0

Left: 592.563+/-0.276  $\chi^2/\text{NDF}$ : 25621.0/2

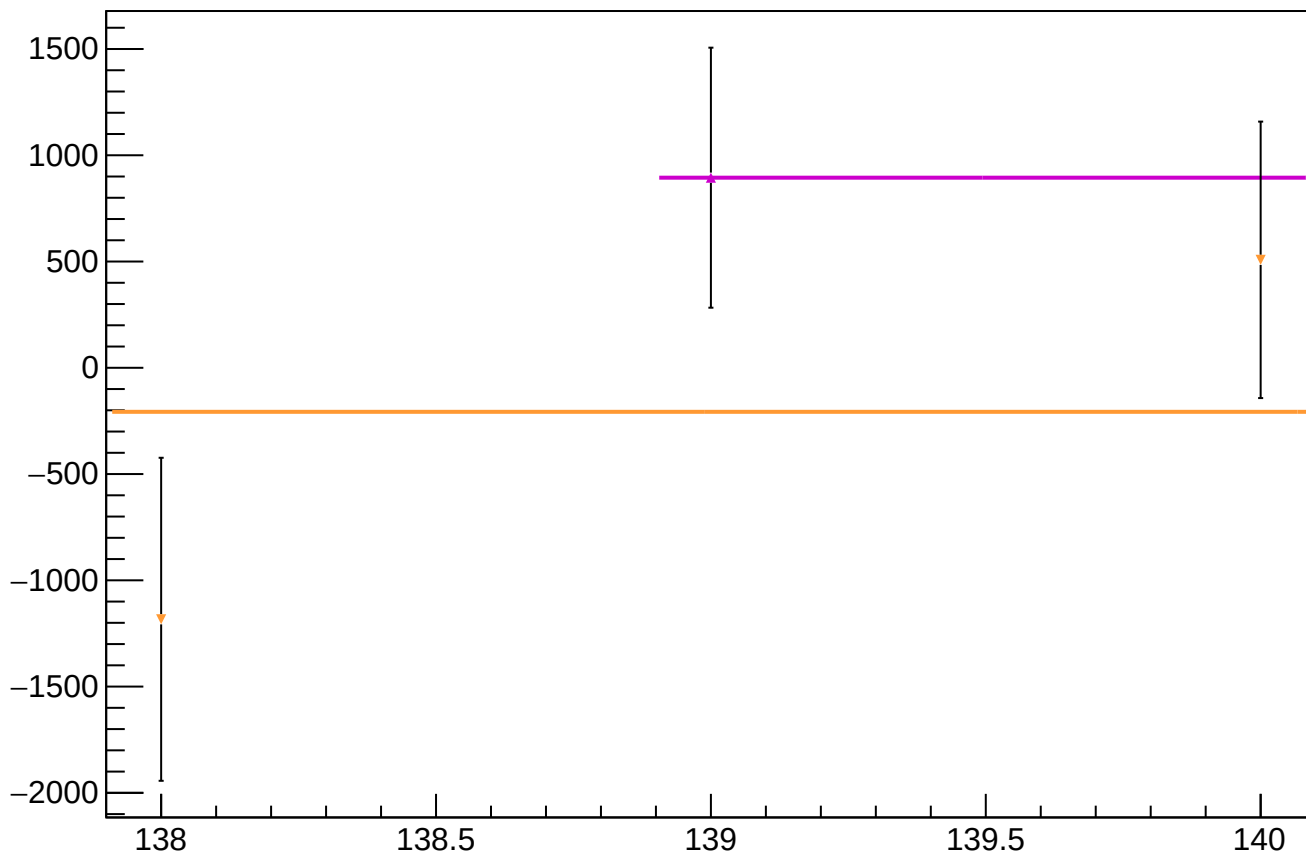
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 550.563+/-0.439  $\chi^2/\text{NDF}$ :0.0/0

Out: 620.201+/-0.356  $\chi^2/\text{NDF}$ :10419.2/1

All: 592.563+/-0.276  $\chi^2/\text{NDF}$ : 25621.0/2

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-207.157 \pm 494.151$   $\chi^2/NDF: 2.9/1$

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

Left In:  $894.500 \pm 611.763$   $\chi^2/NDF: 0.0/0$

Left:  $227.822 \pm 384.410$   $\chi^2/NDF: 4.8/2$

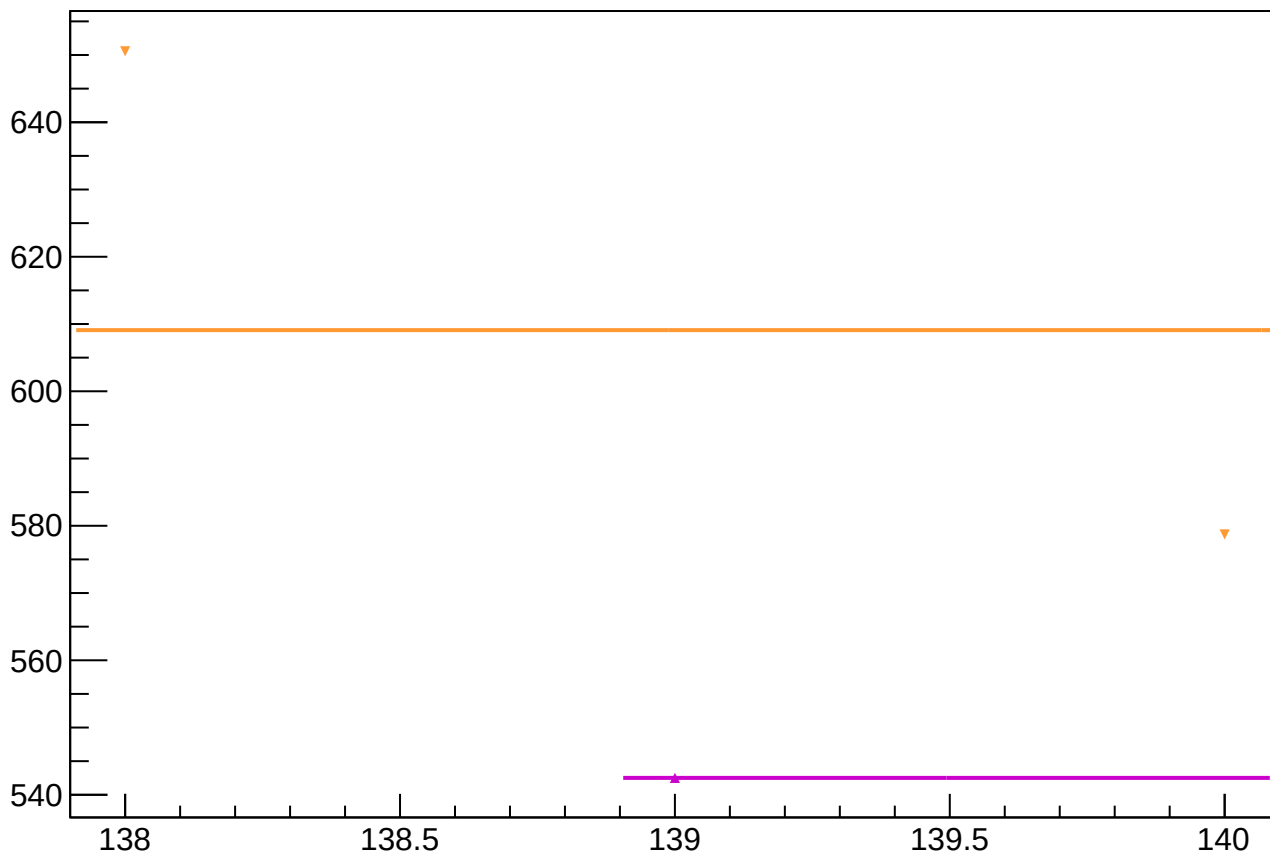
Right:  $0.000 \pm 0.000$   $\chi^2/NDF: 0.0/0$

In:  $894.500 \pm 611.763$   $\chi^2/NDF: 0.0/0$

Out:  $-207.157 \pm 494.151$   $\chi^2/NDF: 2.9/1$

All:  $227.822 \pm 384.410$   $\chi^2/NDF: 4.8/2$

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 609.091+/-0.349  $\chi^2/\text{NDF}$ :10314.1/1

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

Left In: 542.513+/-0.433  $\chi^2/\text{NDF}$ :0.0/0

Left: 582.803+/-0.272  $\chi^2/\text{NDF}$ : 24648.6/2

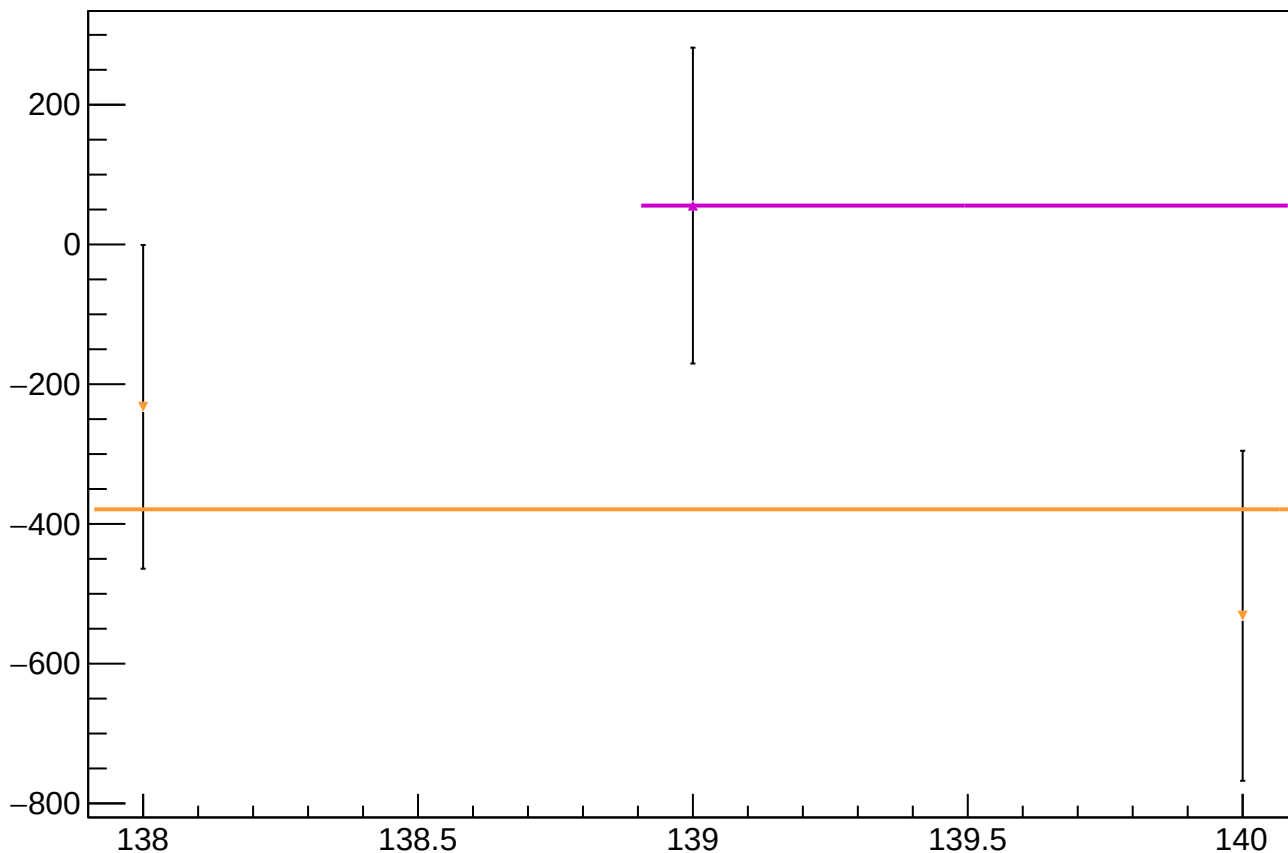
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 542.513+/-0.433  $\chi^2/\text{NDF}$ :0.0/0

Out: 609.091+/-0.349  $\chi^2/\text{NDF}$ :10314.1/1

All: 582.803+/-0.272  $\chi^2/\text{NDF}$ : 24648.6/2

dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-379.072 \pm 165.384$   $\chi^2/\text{NDF}: 0.8/1$

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

Left In:  $55.643 \pm 226.030$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-227.491 \pm 133.471$   $\chi^2/\text{NDF}: 3.2/2$

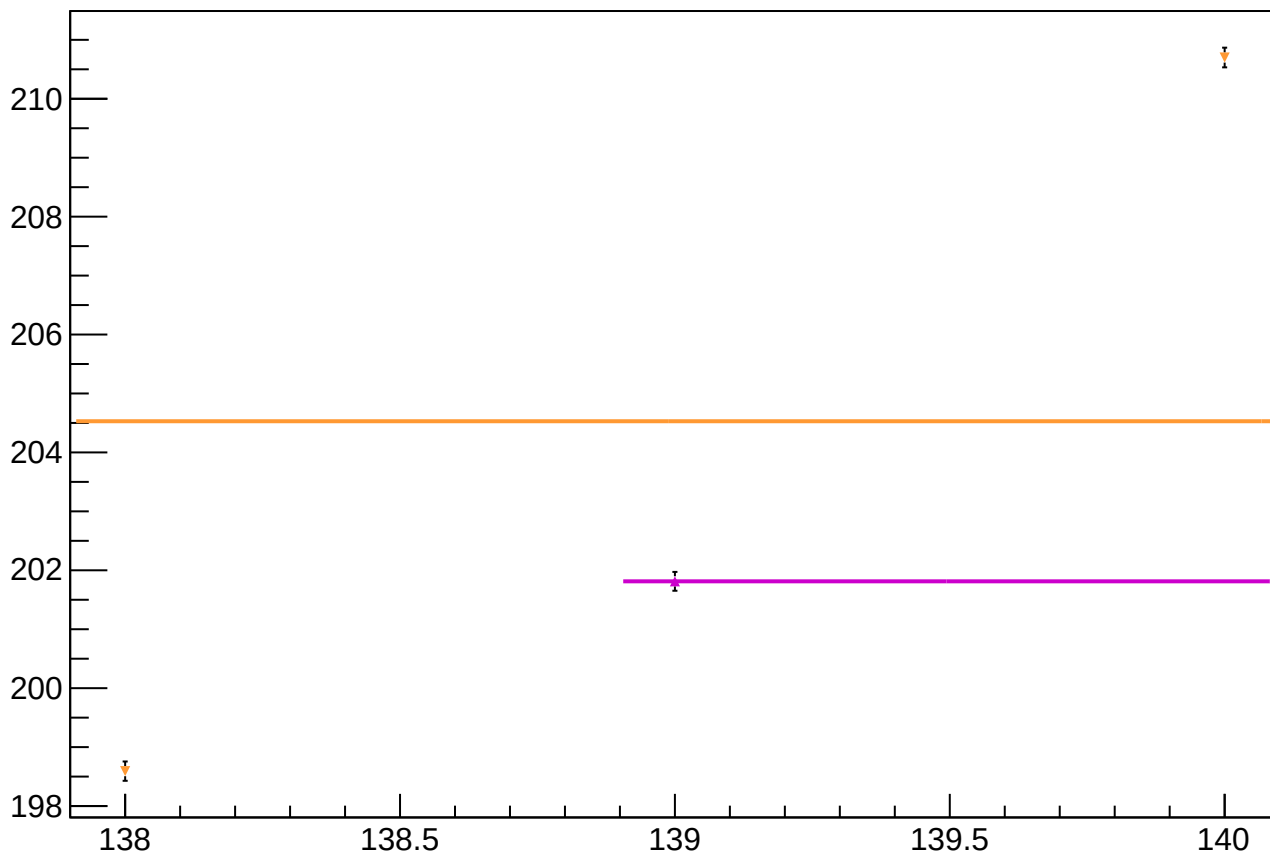
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $55.643 \pm 226.030$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $-379.072 \pm 165.384$   $\chi^2/\text{NDF}: 0.8/1$

All:  $-227.491 \pm 133.471$   $\chi^2/\text{NDF}: 3.2/2$

# dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 204.529+/-0.117  $\chi^2/\text{NDF}$ : 2678.8/1

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

Left In: 201.813+/-0.160  $\chi^2/\text{NDF}$ : 0.0/0

Left: 203.582+/-0.094  $\chi^2/\text{NDF}$ : 2866.9/2

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

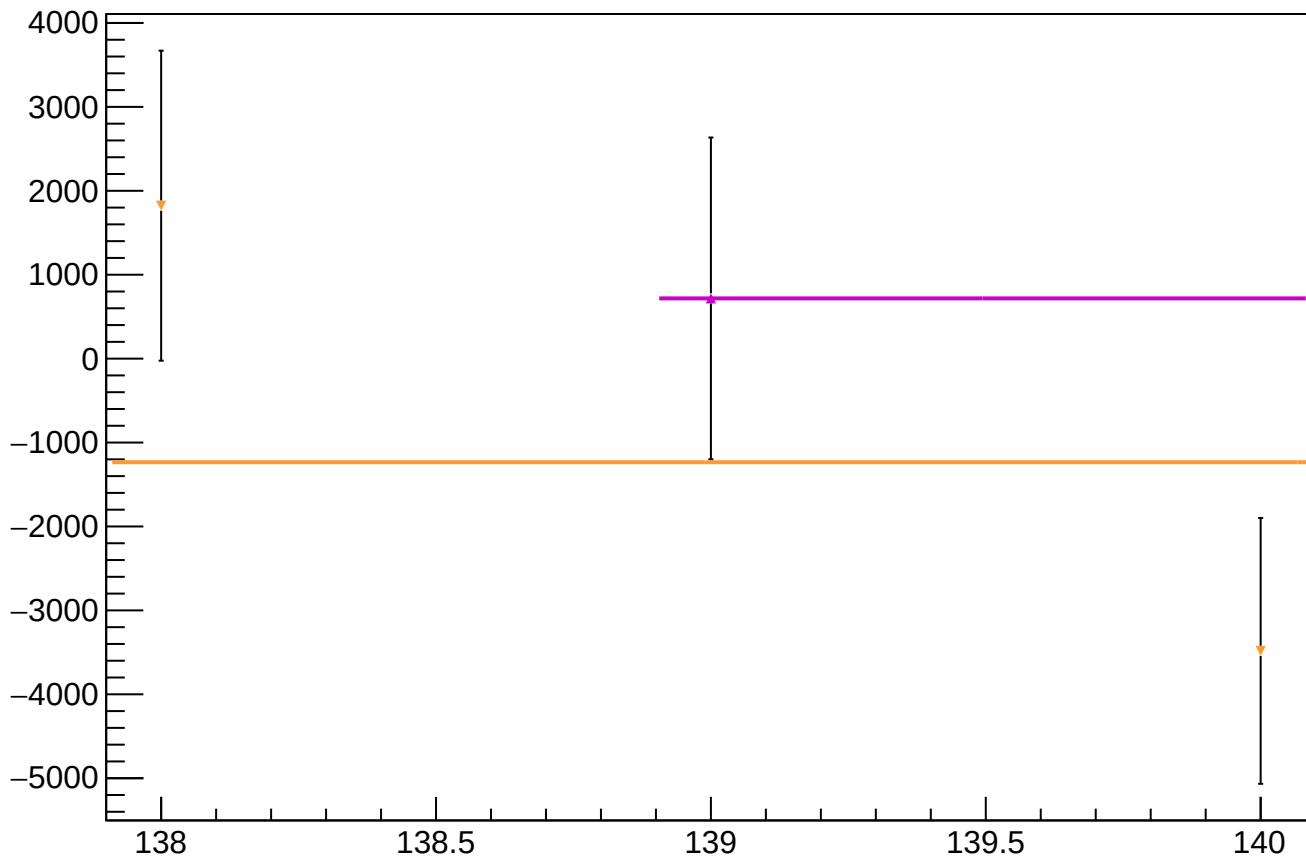
In: 201.813+/-0.160  $\chi^2/\text{NDF}$ : 0.0/0

Out: 204.529+/-0.117  $\chi^2/\text{NDF}$ : 2678.8/1

All: 203.582+/-0.094  $\chi^2/\text{NDF}$ : 2866.9/2



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: -1234.393+/-1202.413  $\chi^2/\text{NDF}$ : 4.8/1

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

Left In: 717.888+/-1917.142  $\chi^2/\text{NDF}$ : 0.0/0

Left: -683.236+/-1018.640  $\chi^2/\text{NDF}$ : 5.5/2

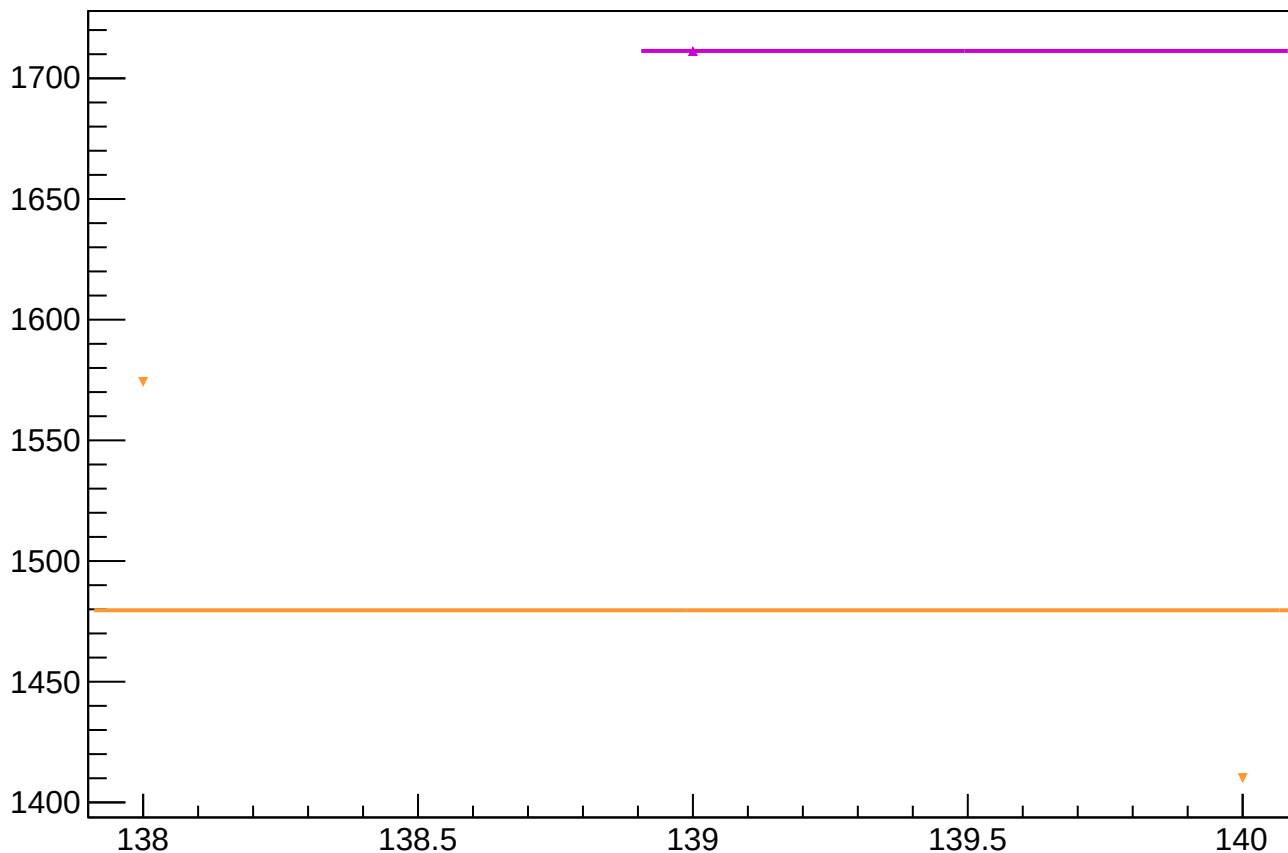
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 717.888+/-1917.142  $\chi^2/\text{NDF}$ : 0.0/0

Out: -1234.393+/-1202.413  $\chi^2/\text{NDF}$ : 4.8/1

All: -683.236+/-1018.640  $\chi^2/\text{NDF}$ : 5.5/2

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: 1479.610+/-0.850  $\chi^2/\text{NDF}$ : 9097.3/1

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

Left In: 1711.350+/-1.356  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1545.033+/-0.720  $\chi^2/\text{NDF}$ : 30070.3/2

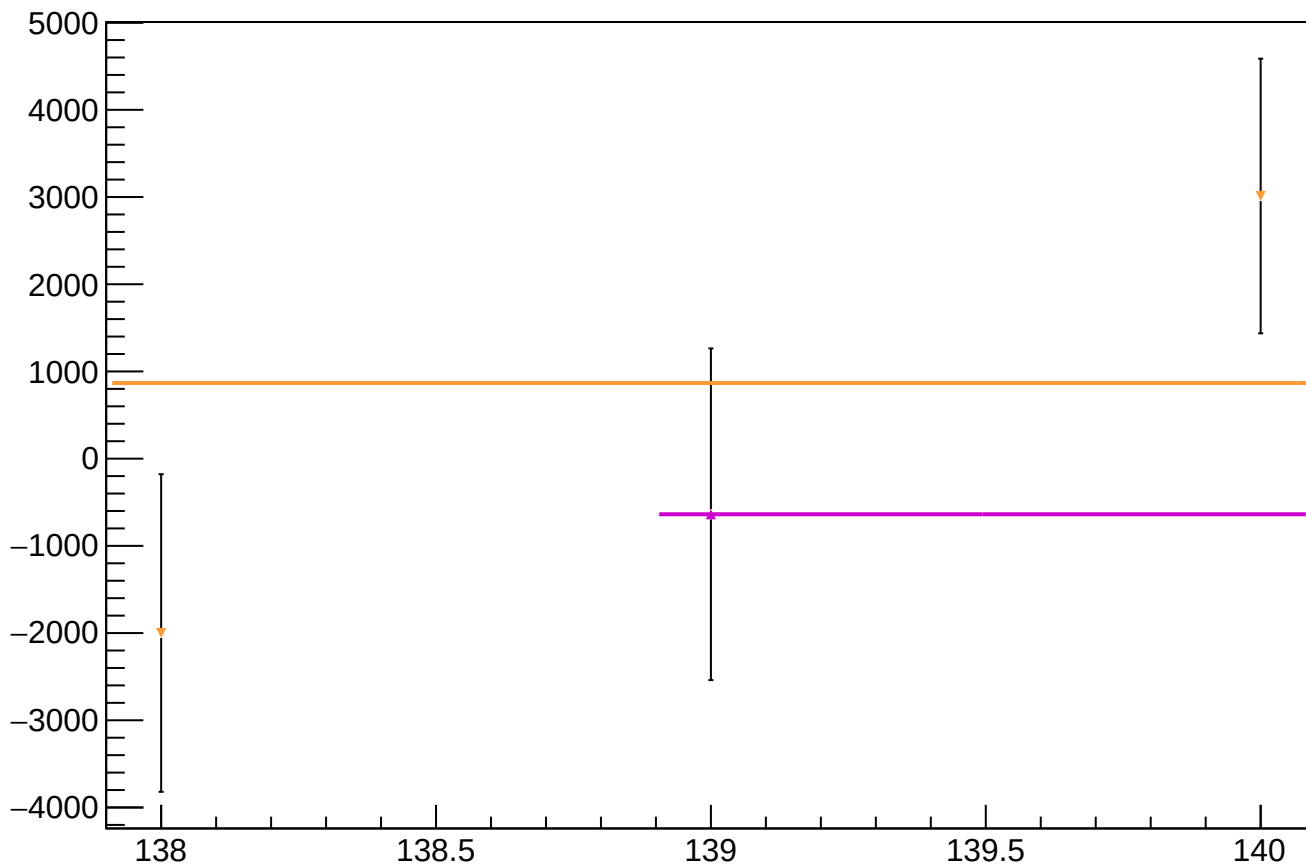
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1711.350+/-1.356  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1479.610+/-0.850  $\chi^2/\text{NDF}$ : 9097.3/1

All: 1545.033+/-0.720  $\chi^2/\text{NDF}$ : 30070.3/2

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 867.606+/-1191.127  $\chi^2/\text{NDF}$ : 4.3/1

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

Left In: -637.706+/-1901.763  $\chi^2/\text{NDF}$ : 0.0/0

Left: 443.474+/-1009.471  $\chi^2/\text{NDF}$ : 4.8/2

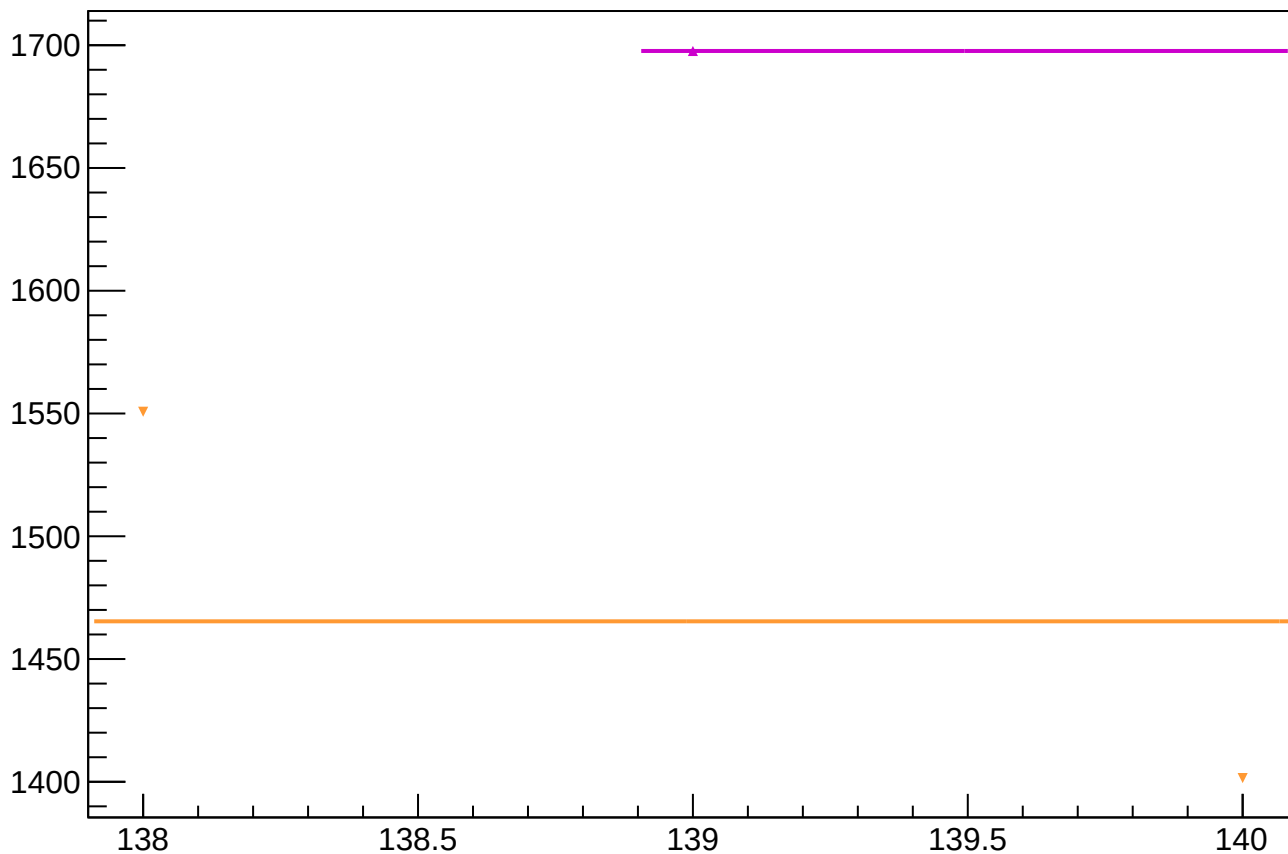
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -637.706+/-1901.763  $\chi^2/\text{NDF}$ : 0.0/0

Out: 867.606+/-1191.127  $\chi^2/\text{NDF}$ : 4.3/1

All: 443.474+/-1009.471  $\chi^2/\text{NDF}$ : 4.8/2

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1465.357+/-0.842  $\chi^2/\text{NDF}$ : 7681.3/1

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

Left In: 1697.656+/-1.345  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1530.809+/-0.714  $\chi^2/\text{NDF}$ : 29114.2/2

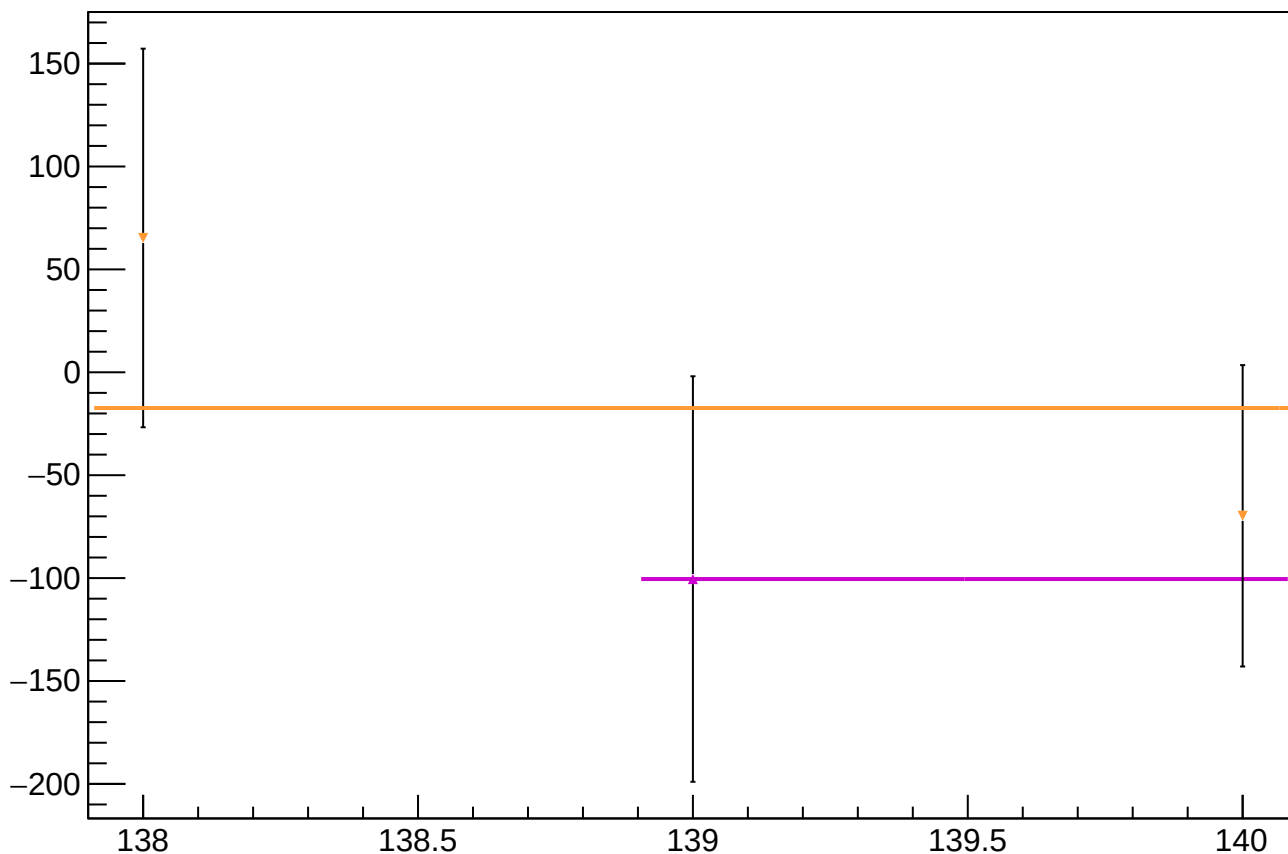
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1697.656+/-1.345  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1465.357+/-0.842  $\chi^2/\text{NDF}$ : 7681.3/1

All: 1530.809+/-0.714  $\chi^2/\text{NDF}$ : 29114.2/2

dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Left: -38.362±49.523  $\chi^2/\text{NDF}$ : 1.9/2

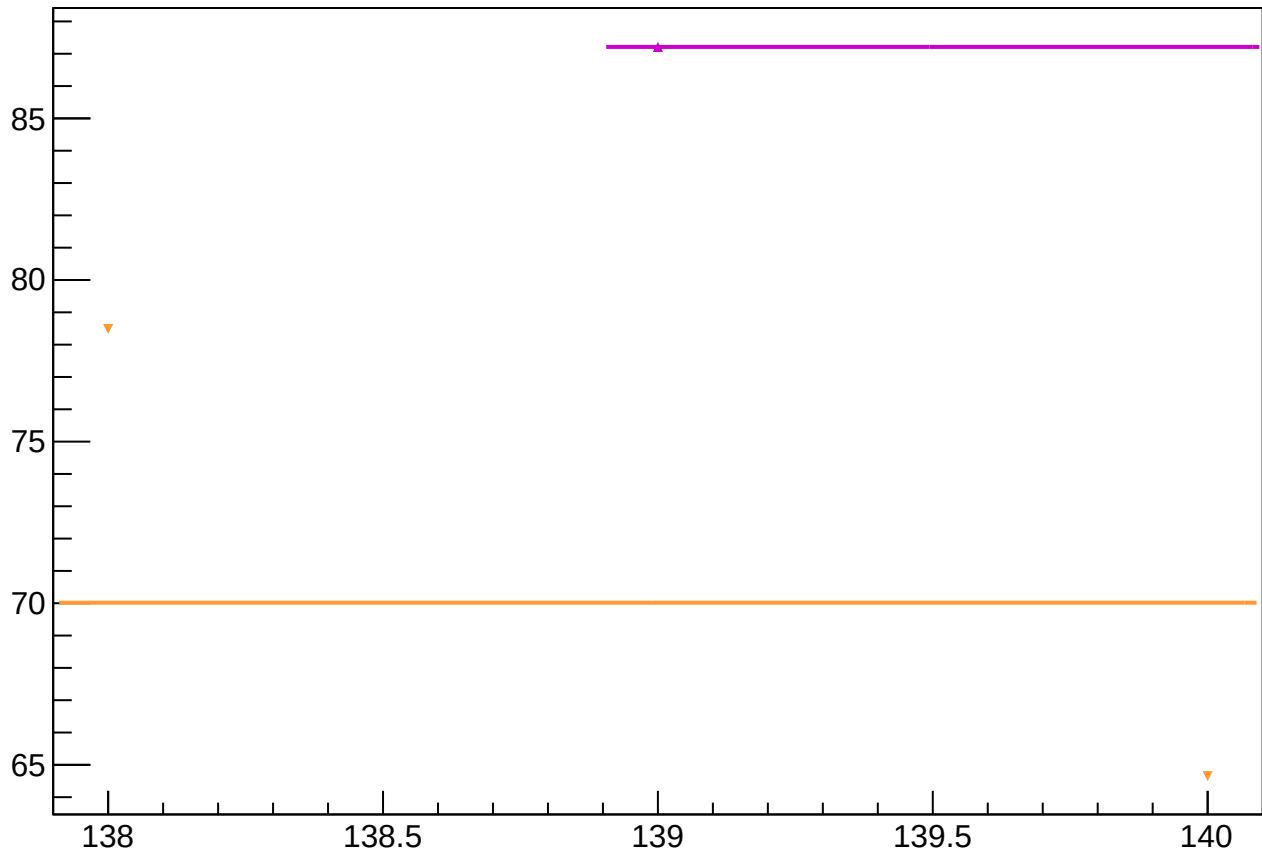
Right: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -100.459±98.522  $\chi^2/\text{NDF}$ : 0.0/0

Out: -17.367±57.286  $\chi^2/\text{NDF}$ : 1.3/1

All: -38.362±49.523  $\chi^2/\text{NDF}$ : 1.9/2

# 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: 70.016+/-0.041  $\chi^2/\text{NDF}$ : 27682.8/1

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

Left In: 87.211+/-0.070  $\chi^2/\text{NDF}$ : 0.0/0

Left: 74.361+/-0.035  $\chi^2/\text{NDF}$ : 73210.4/2

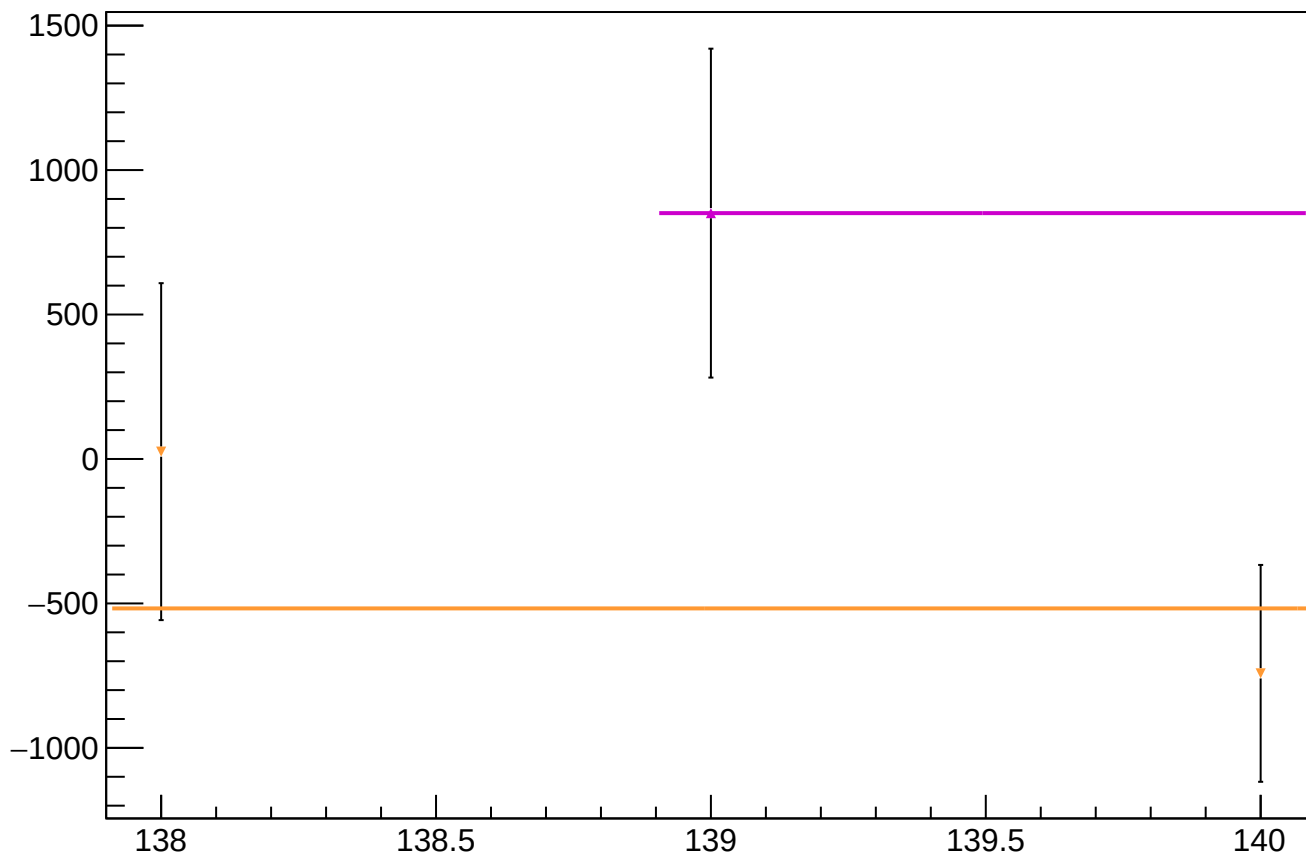
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 87.211+/-0.070  $\chi^2/\text{NDF}$ : 0.0/0

Out: 70.016+/-0.041  $\chi^2/\text{NDF}$ : 27682.8/1

All: 74.361+/-0.035  $\chi^2/\text{NDF}$ : 73210.4/2

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: -517.257+/-315.599  $\chi^2/\text{NDF}$ : 1.2/1

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

Left In: 850.961+/-569.227  $\chi^2/\text{NDF}$ : 0.0/0

Left: -195.560+/-276.014  $\chi^2/\text{NDF}$ : 5.6/2

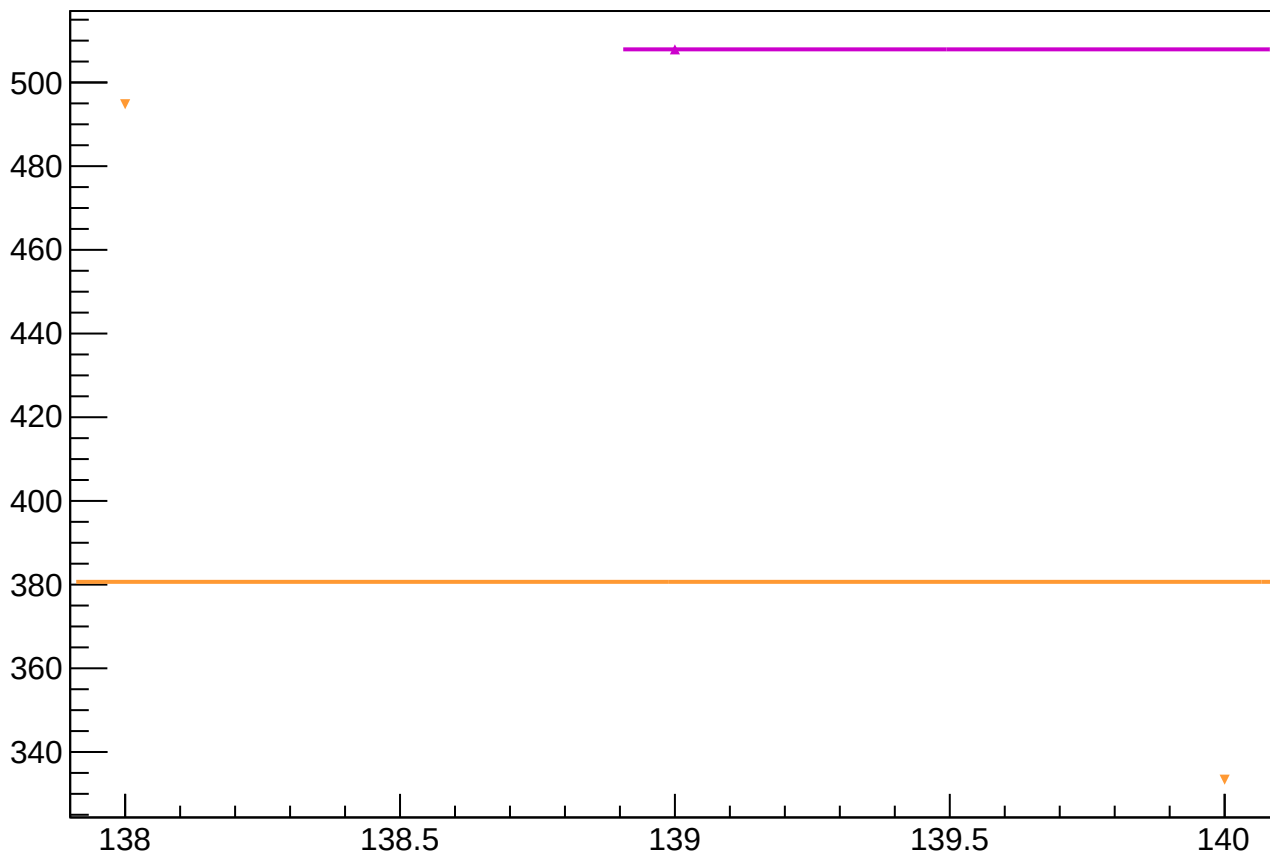
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 850.961+/-569.227  $\chi^2/\text{NDF}$ : 0.0/0

Out: -517.257+/-315.599  $\chi^2/\text{NDF}$ : 1.2/1

All: -195.560+/-276.014  $\chi^2/\text{NDF}$ : 5.6/2

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 380.663+/-0.223  $\chi^2/NDF: 108357.1/1$

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

Left In: 507.914+/-0.403  $\chi^2/NDF: 0.0/0$

Left: 410.583+/-0.195  $\chi^2/NDF: 184805.9/2$

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

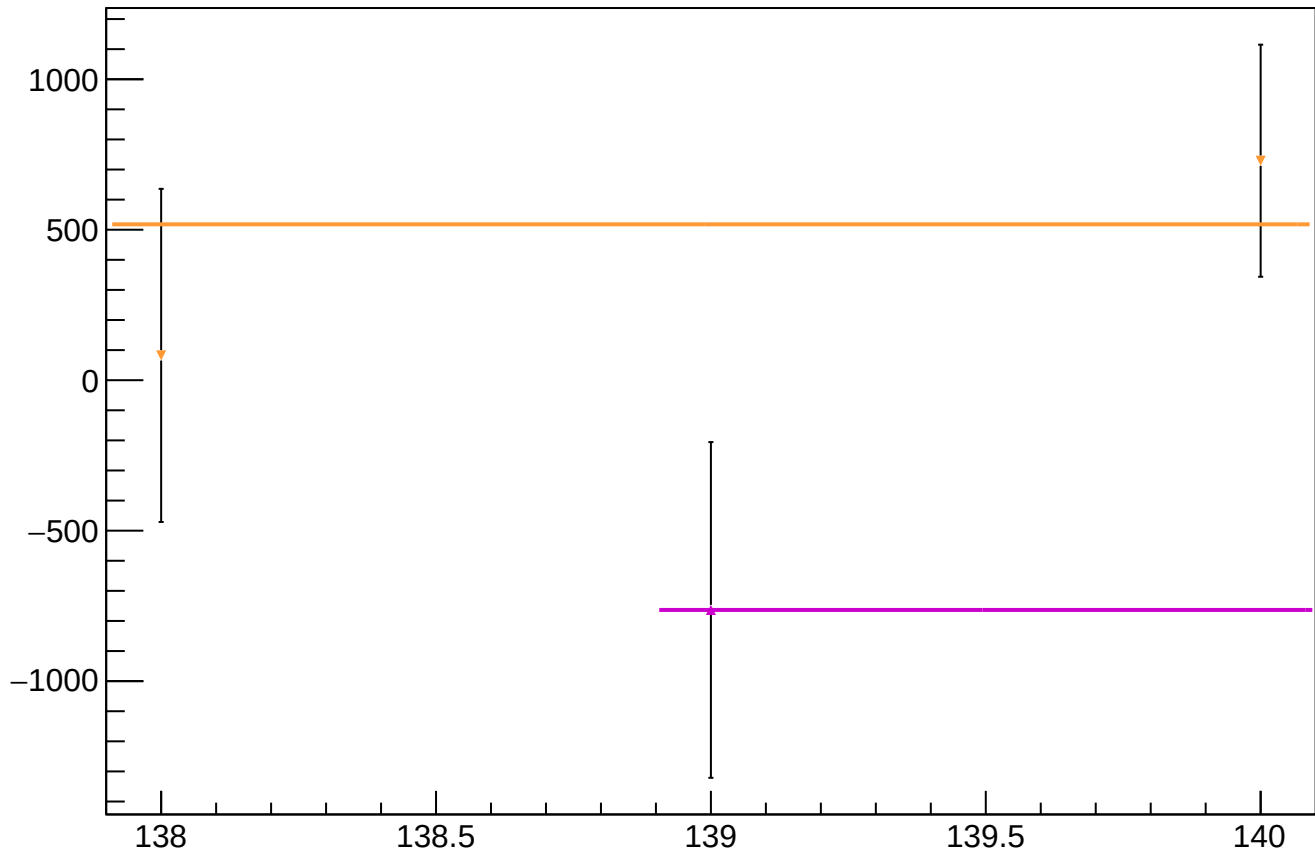
In: 507.914+/-0.403  $\chi^2/NDF: 0.0/0$

Out: 380.663+/-0.223  $\chi^2/NDF: 108357.1/1$

All: 410.583+/-0.195  $\chi^2/NDF: 184805.9/2$



# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 517.905+/-316.391  $\chi^2/\text{NDF}$ : 0.9/1

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

Left In: -763.420+/-557.762  $\chi^2/\text{NDF}$ : 0.0/0

Left: 205.977+/-275.198  $\chi^2/\text{NDF}$ : 4.9/2

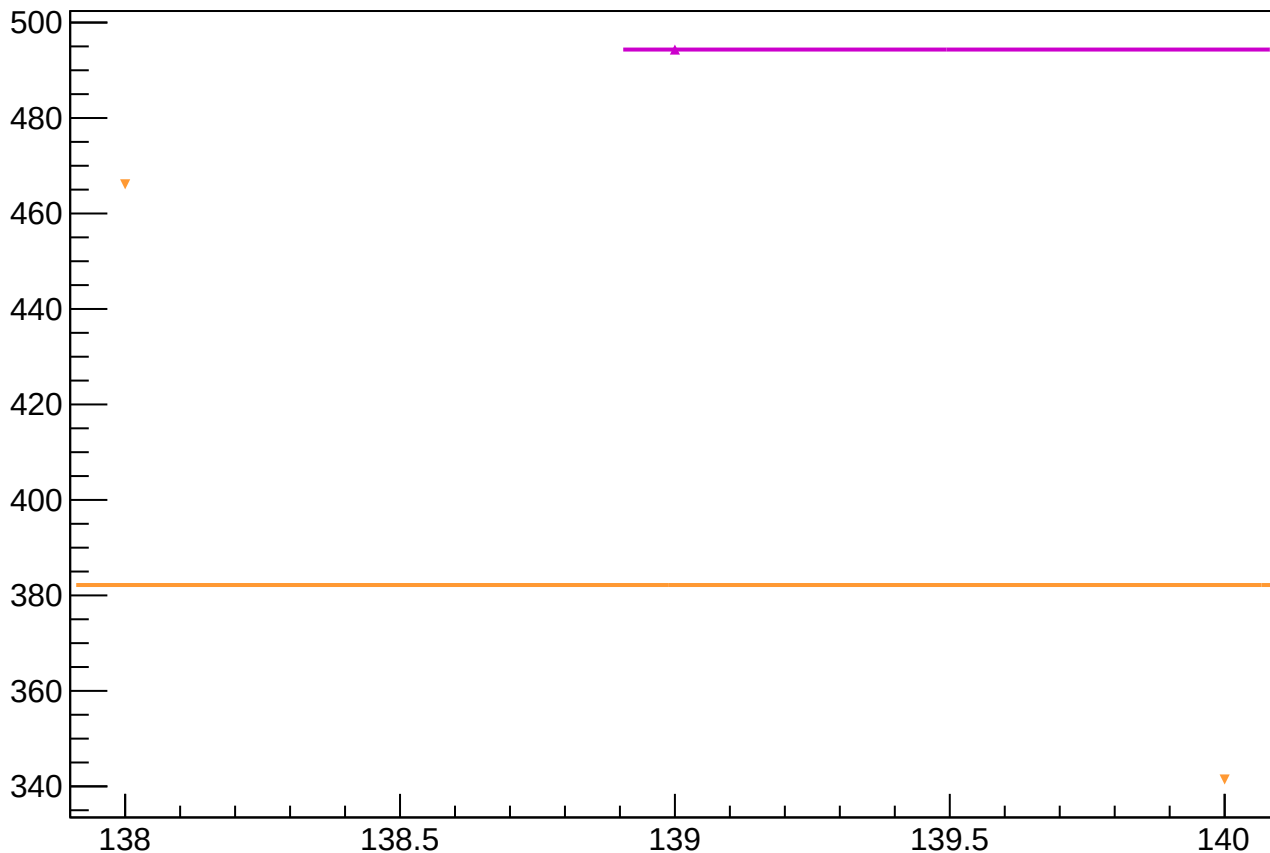
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -763.420+/-557.762  $\chi^2/\text{NDF}$ : 0.0/0

Out: 517.905+/-316.391  $\chi^2/\text{NDF}$ : 0.9/1

All: 205.977+/-275.198  $\chi^2/\text{NDF}$ : 4.9/2

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 382.177+/-0.224  $\chi^2/\text{NDF}$ : 68316.4/1

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

Left In: 494.341+/-0.394  $\chi^2/\text{NDF}$ : 0.0/0

Left: 409.482+/-0.195  $\chi^2/\text{NDF}$ : 129506.4/2

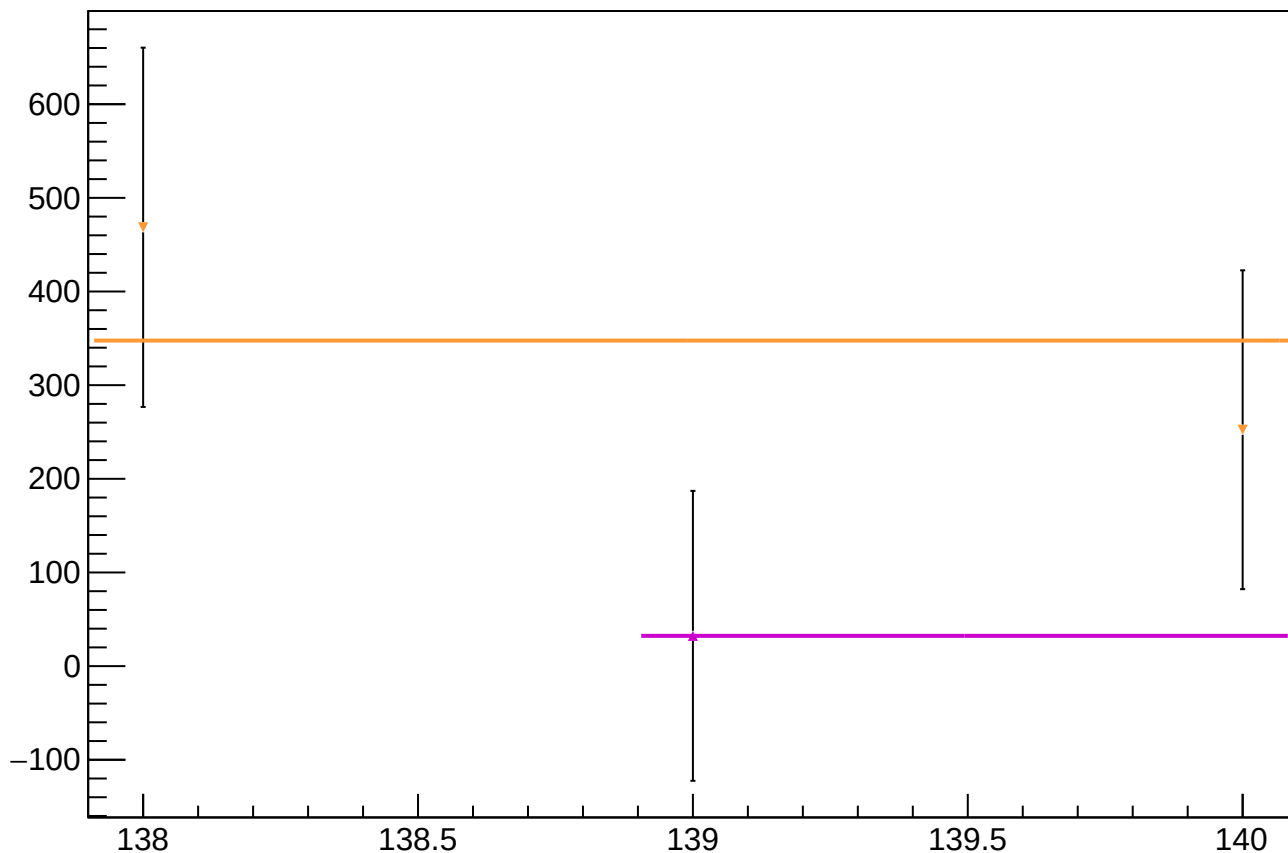
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 494.341+/-0.394  $\chi^2/\text{NDF}$ : 0.0/0

Out: 382.177+/-0.224  $\chi^2/\text{NDF}$ : 68316.4/1

All: 409.482+/-0.195  $\chi^2/\text{NDF}$ : 129506.4/2

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 347.636+/-127.313  $\chi^2/\text{NDF}$ : 0.7/1

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

Left In: 32.345+/-154.787  $\chi^2/\text{NDF}$ : 0.0/0

Left: 220.408+/-98.326  $\chi^2/\text{NDF}$ : 3.2/2

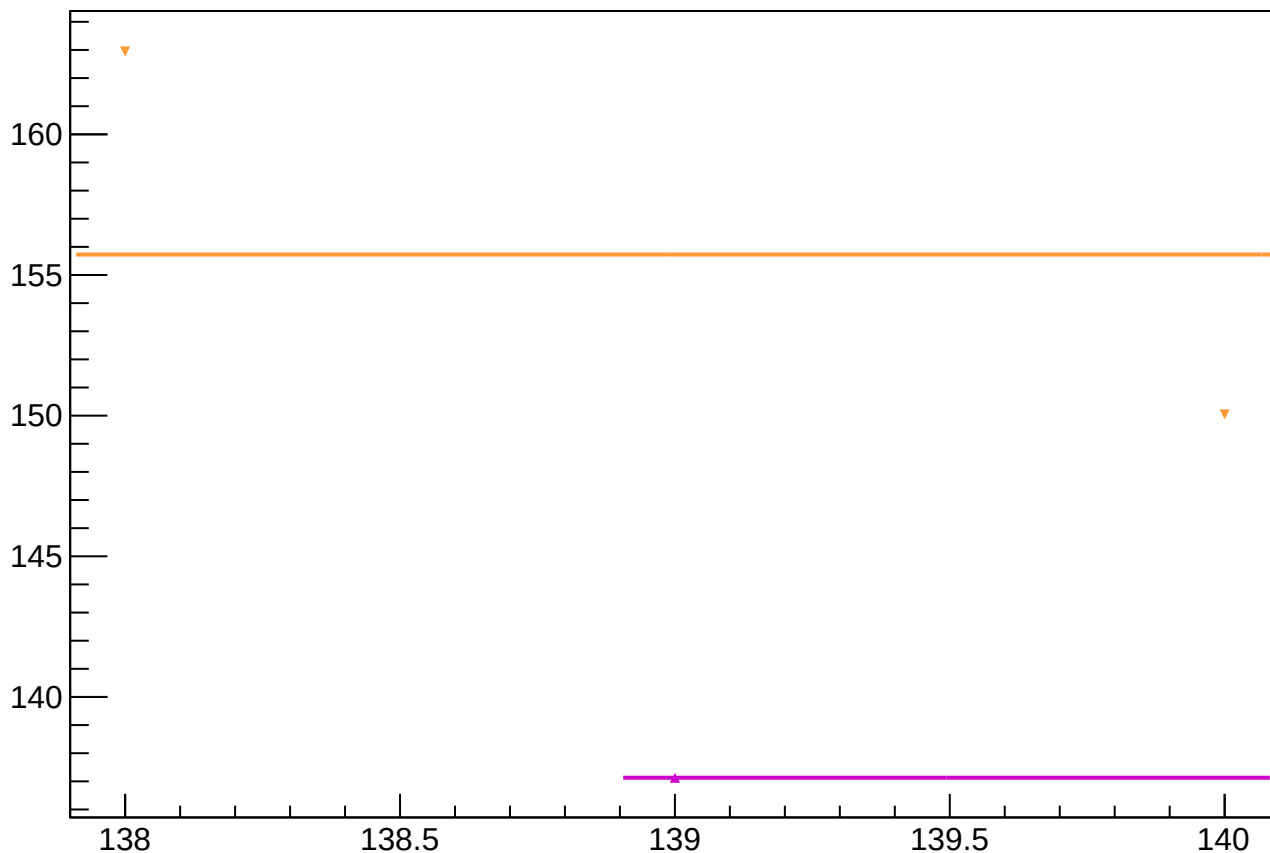
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 32.345+/-154.787  $\chi^2/\text{NDF}$ : 0.0/0

Out: 347.636+/-127.313  $\chi^2/\text{NDF}$ : 0.7/1

All: 220.408+/-98.326  $\chi^2/\text{NDF}$ : 3.2/2

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 155.728+/-0.090  $\chi^2/\text{NDF}$ : 5062.5/1

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

Left In: 137.129+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Left: 148.223+/-0.070  $\chi^2/\text{NDF}$ : 22286.8/2

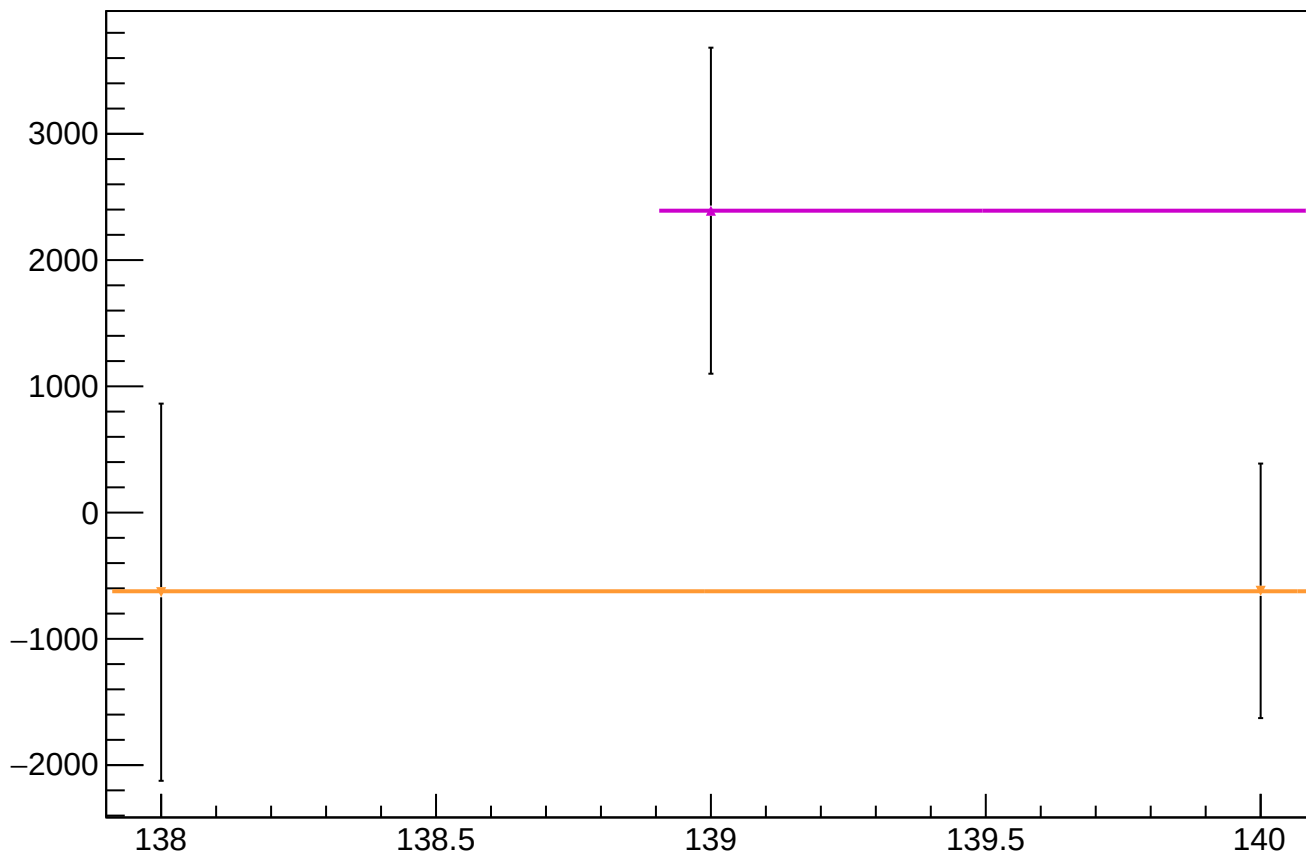
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 137.129+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 155.728+/-0.090  $\chi^2/\text{NDF}$ : 5062.5/1

All: 148.223+/-0.070  $\chi^2/\text{NDF}$ : 22286.8/2

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: -623.119+/-835.531  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 2391.216+/-1291.191  $\chi^2/\text{NDF}$ : 0.0/0

Left: 266.560+/-701.474  $\chi^2/\text{NDF}$ : 3.8/2

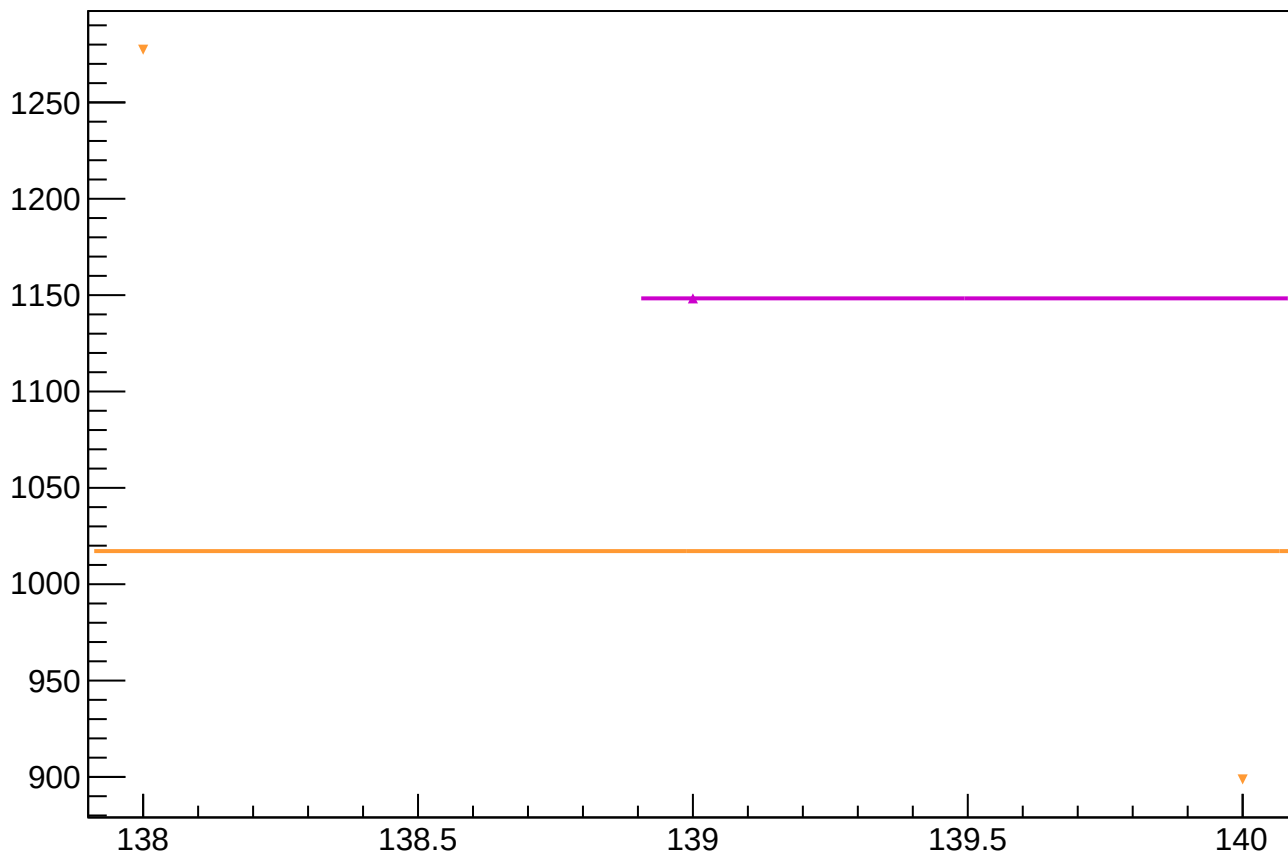
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2391.216+/-1291.191  $\chi^2/\text{NDF}$ : 0.0/0

Out: -623.119+/-835.531  $\chi^2/\text{NDF}$ : 0.0/1

All: 266.560+/-701.474  $\chi^2/\text{NDF}$ : 3.8/2

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: 1017.183+/-0.591  $\chi^2/\text{NDF}$ : 88302.9/1

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

Left In: 1148.322+/-0.913  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1055.889+/-0.496  $\chi^2/\text{NDF}$ : 102844.5/2

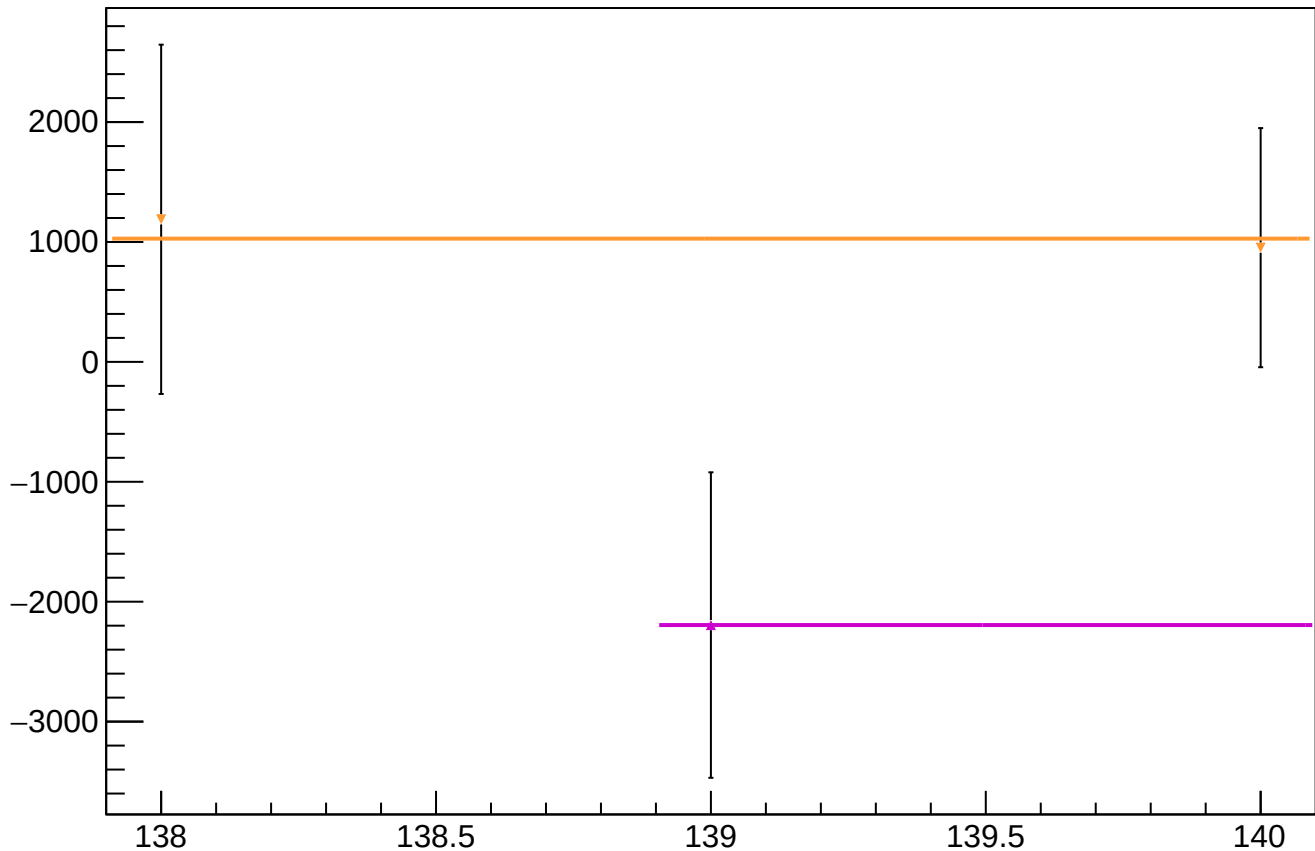
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1148.322+/-0.913  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1017.183+/-0.591  $\chi^2/\text{NDF}$ : 88302.9/1

All: 1055.889+/-0.496  $\chi^2/\text{NDF}$ : 102844.5/2

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 1028.026+/-822.829  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -2194.817+/-1273.871  $\chi^2/\text{NDF}$ : 0.0/0

Left: 79.238+/-691.179  $\chi^2/\text{NDF}$ : 4.5/2

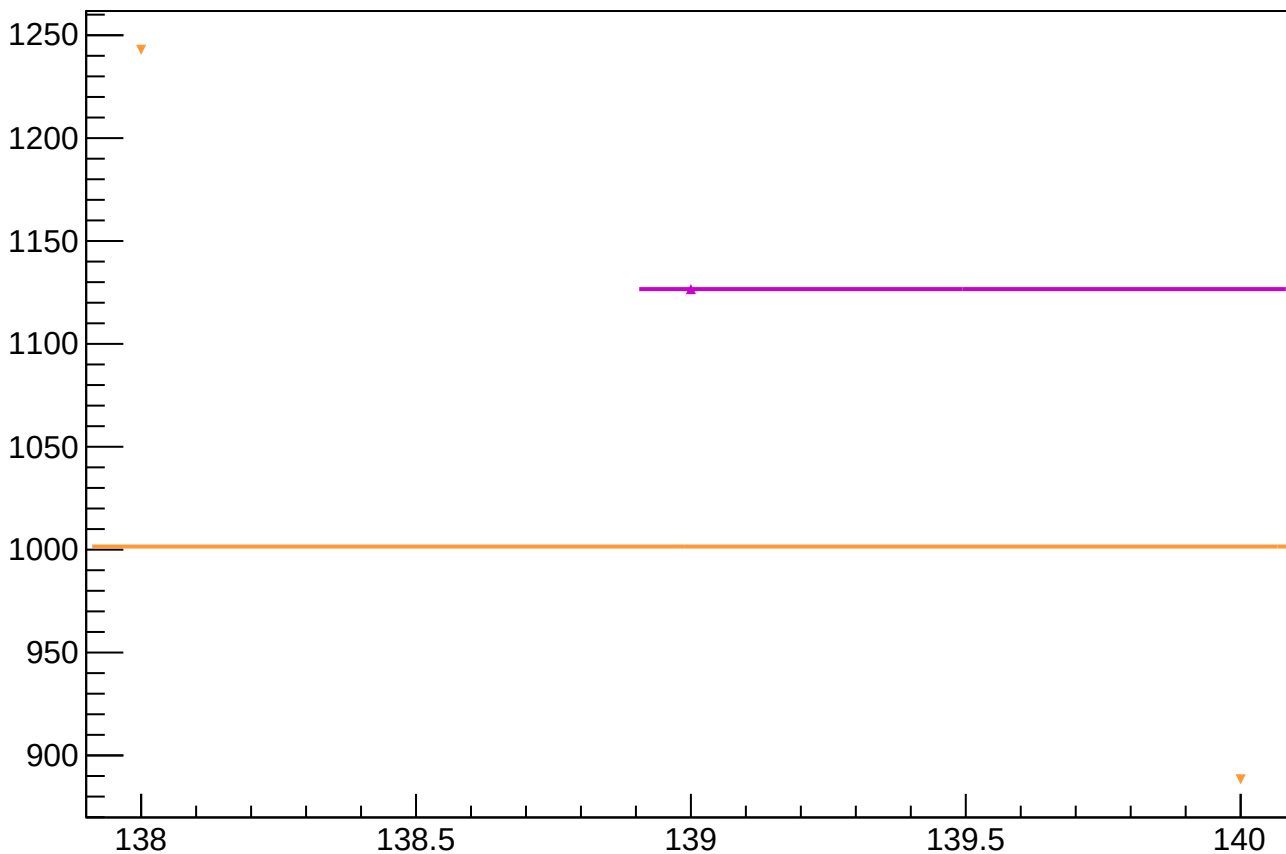
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2194.817+/-1273.871  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1028.026+/-822.829  $\chi^2/\text{NDF}$ : 0.0/1

All: 79.238+/-691.179  $\chi^2/\text{NDF}$ : 4.5/2

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1001.517+/-0.582  $\chi^2/\text{NDF}$ :80683.4/1

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

Left In: 1126.632+/-0.901  $\chi^2/\text{NDF}$ :0.0/0

Left: 1038.350+/-0.489  $\chi^2/\text{NDF}$ : 94296.7/2

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

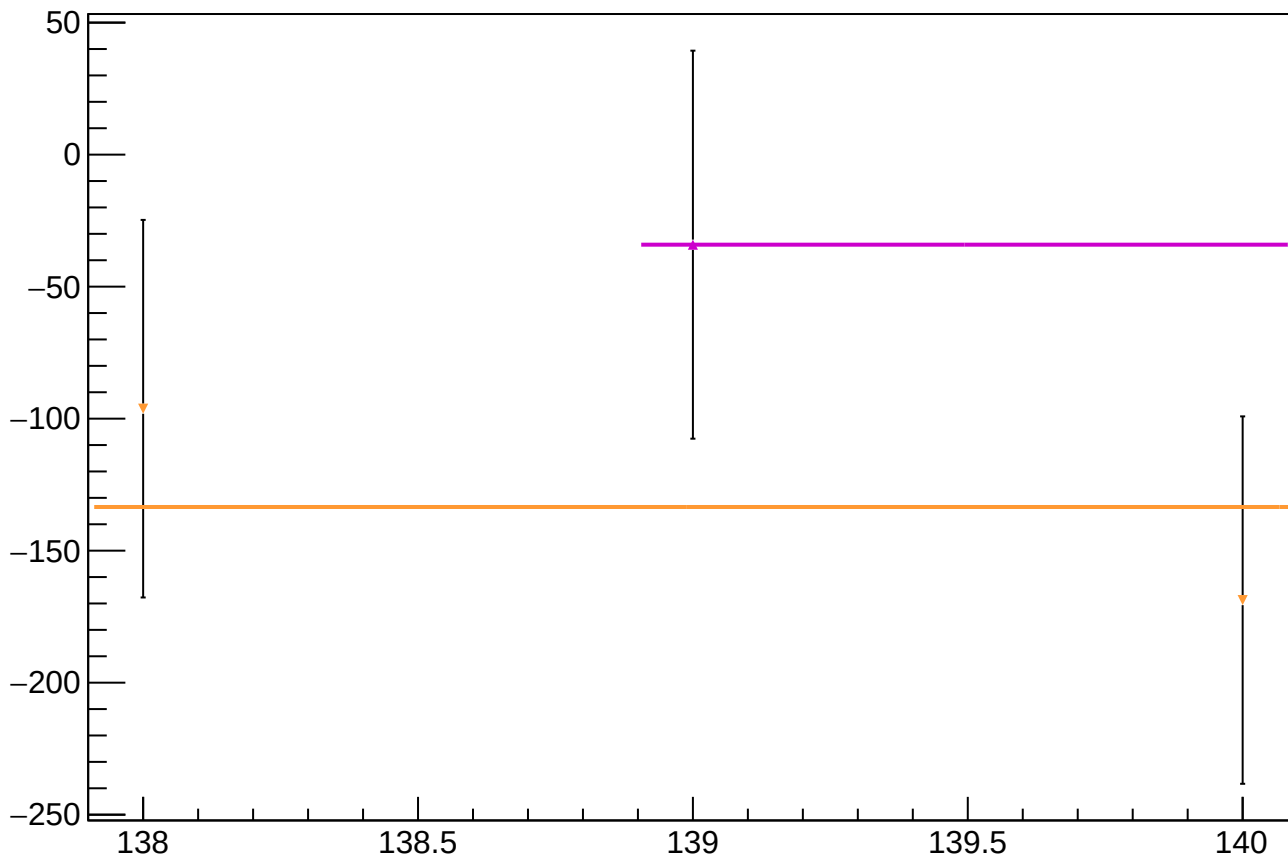
In: 1126.632+/-0.901  $\chi^2/\text{NDF}$ :0.0/0

Out: 1001.517+/-0.582  $\chi^2/\text{NDF}$ :80683.4/1

All: 1038.350+/-0.489  $\chi^2/\text{NDF}$ : 94296.7/2



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: -133.461+/-49.866  $\chi^2/\text{NDF}$ : 0.5/1

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

Left In: -34.106+/-73.481  $\chi^2/\text{NDF}$ : 0.0/0

Left: -102.133+/-41.262  $\chi^2/\text{NDF}$ : 1.8/2

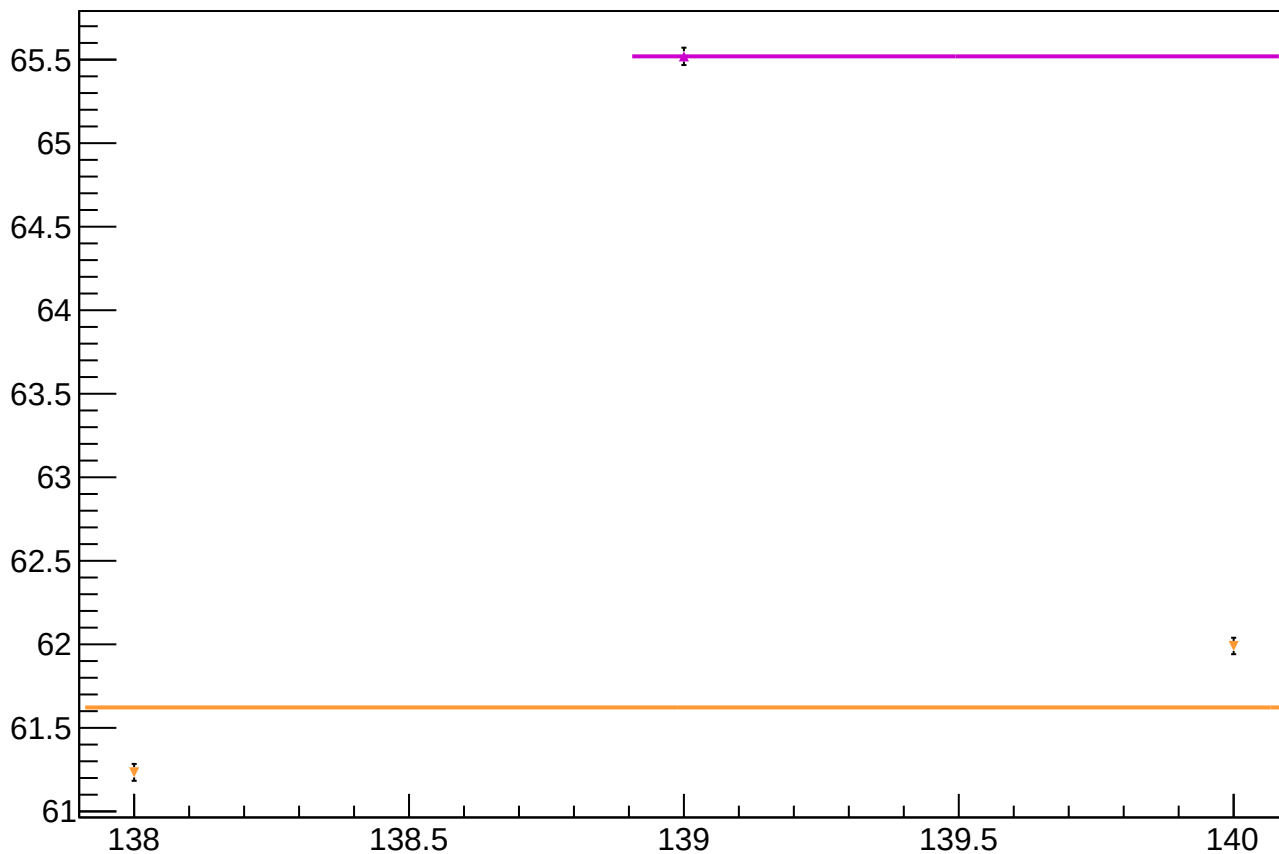
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.106+/-73.481  $\chi^2/\text{NDF}$ : 0.0/0

Out: -133.461+/-49.866  $\chi^2/\text{NDF}$ : 0.5/1

All: -102.133+/-41.262  $\chi^2/\text{NDF}$ : 1.8/2

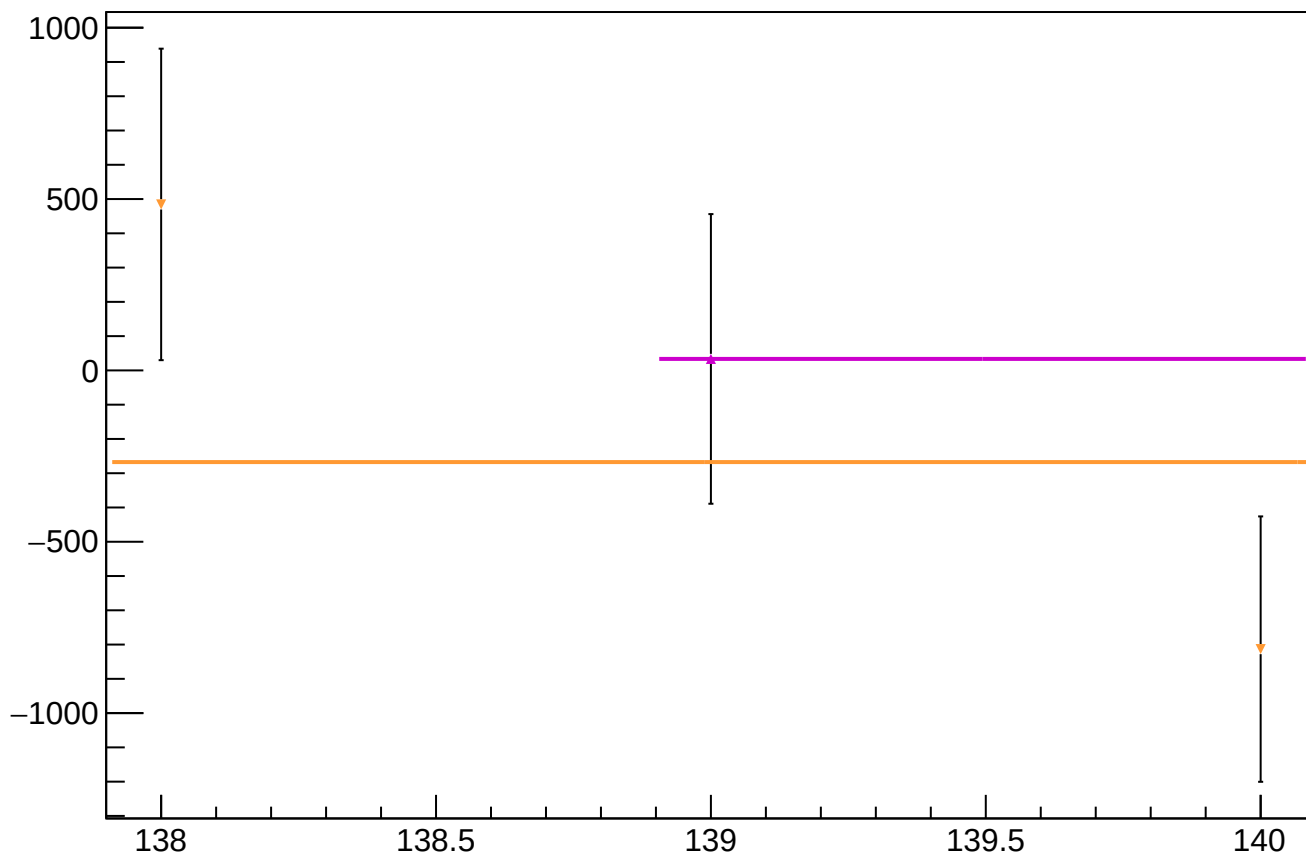
dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 61.622+/-0.035  $\chi^2/\text{NDF}$ :115.0/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 65.520+/-0.052  $\chi^2/\text{NDF}$ :0.0/0

Left: 62.851+/-0.029  $\chi^2/\text{NDF}$ : 3967.1/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 65.520+/-0.052  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 61.622+/-0.035  $\chi^2/\text{NDF}$ :115.0/1  
 All: 62.851+/-0.029  $\chi^2/\text{NDF}$ : 3967.1/2

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: -267.485 +/- 294.731  $\chi^2/\text{NDF}$ : 4.7/1

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

Left In: 33.530 +/- 422.590  $\chi^2/\text{NDF}$ : 0.0/0

Left: -168.980 +/- 241.744  $\chi^2/\text{NDF}$ : 5.1/2

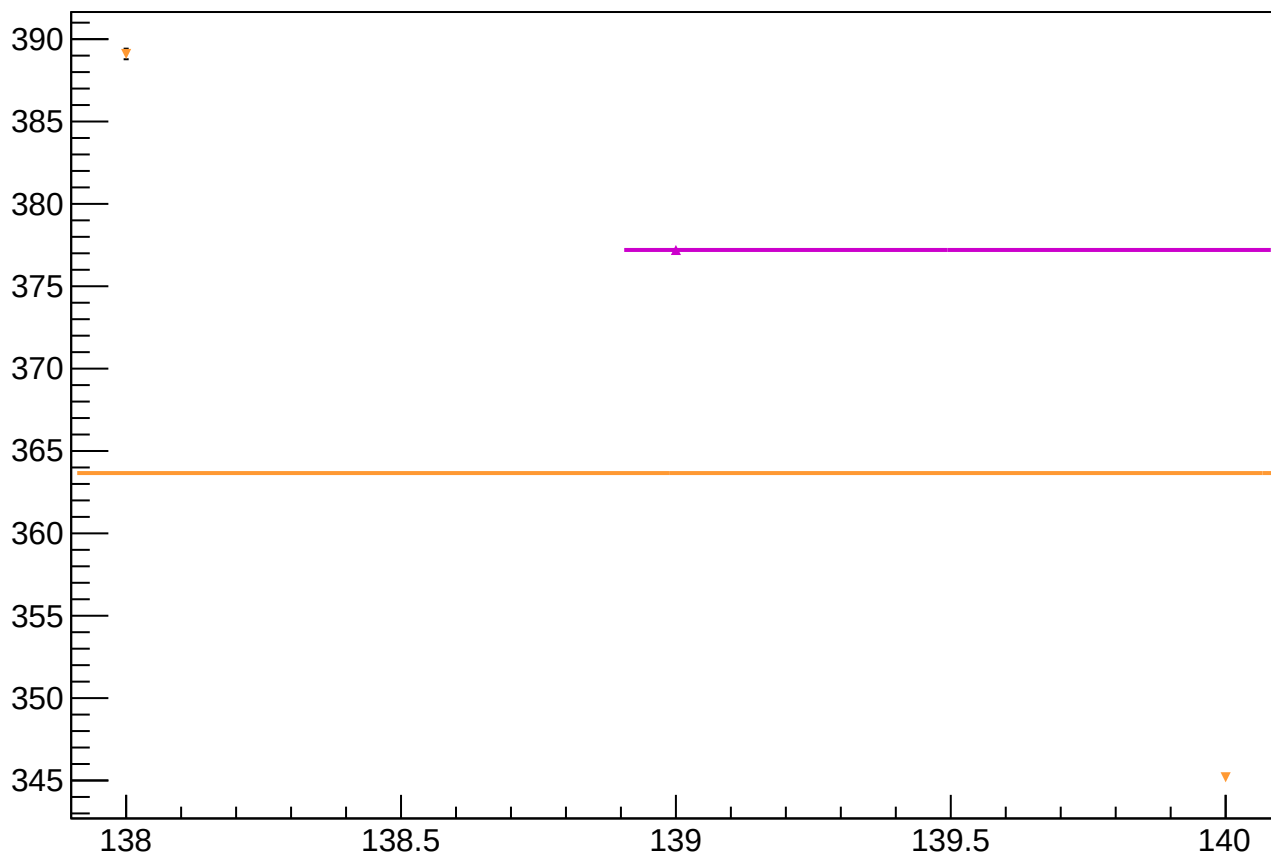
Right: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 33.530 +/- 422.590  $\chi^2/\text{NDF}$ : 0.0/0

Out: -267.485 +/- 294.731  $\chi^2/\text{NDF}$ : 4.7/1

All: -168.980 +/- 241.744  $\chi^2/\text{NDF}$ : 5.1/2

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: 363.660+/-0.208  $\chi^2/\text{NDF}$ :10816.4/1

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

Left In: 377.203+/-0.299  $\chi^2/\text{NDF}$ :0.0/0

Left: 368.092+/-0.171  $\chi^2/\text{NDF}$ : 12198.2/2

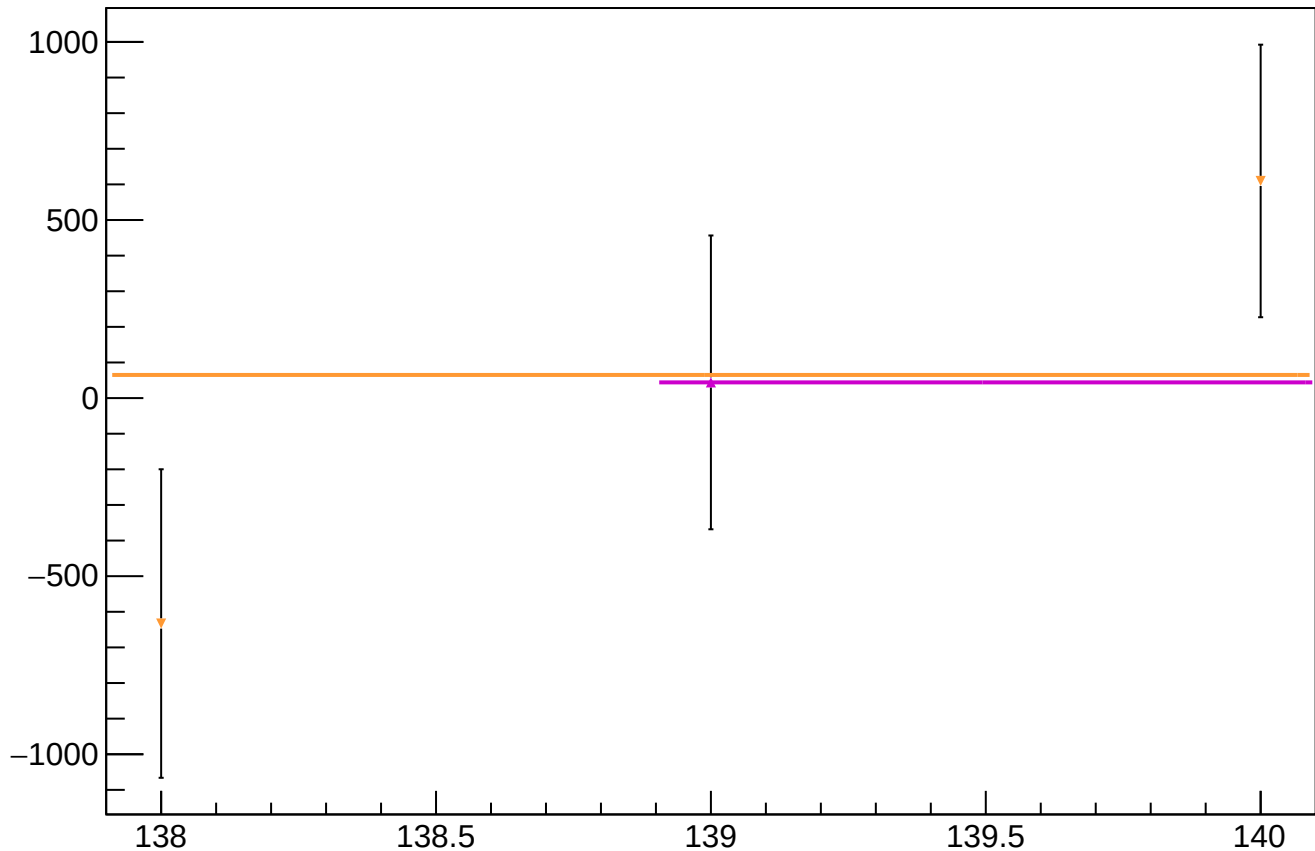
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 377.203+/-0.299  $\chi^2/\text{NDF}$ :0.0/0

Out: 363.660+/-0.208  $\chi^2/\text{NDF}$ :10816.4/1

All: 368.092+/-0.171  $\chi^2/\text{NDF}$ : 12198.2/2

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: 65.005 $\pm$ 286.764  $\chi^2$ /NDF:4.6/1

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

Left In: 44.107 $\pm$ 412.451  $\chi^2$ /NDF:0.0/0

Left: 58.195 $\pm$ 235.449  $\chi^2$ /NDF: 4.6/2

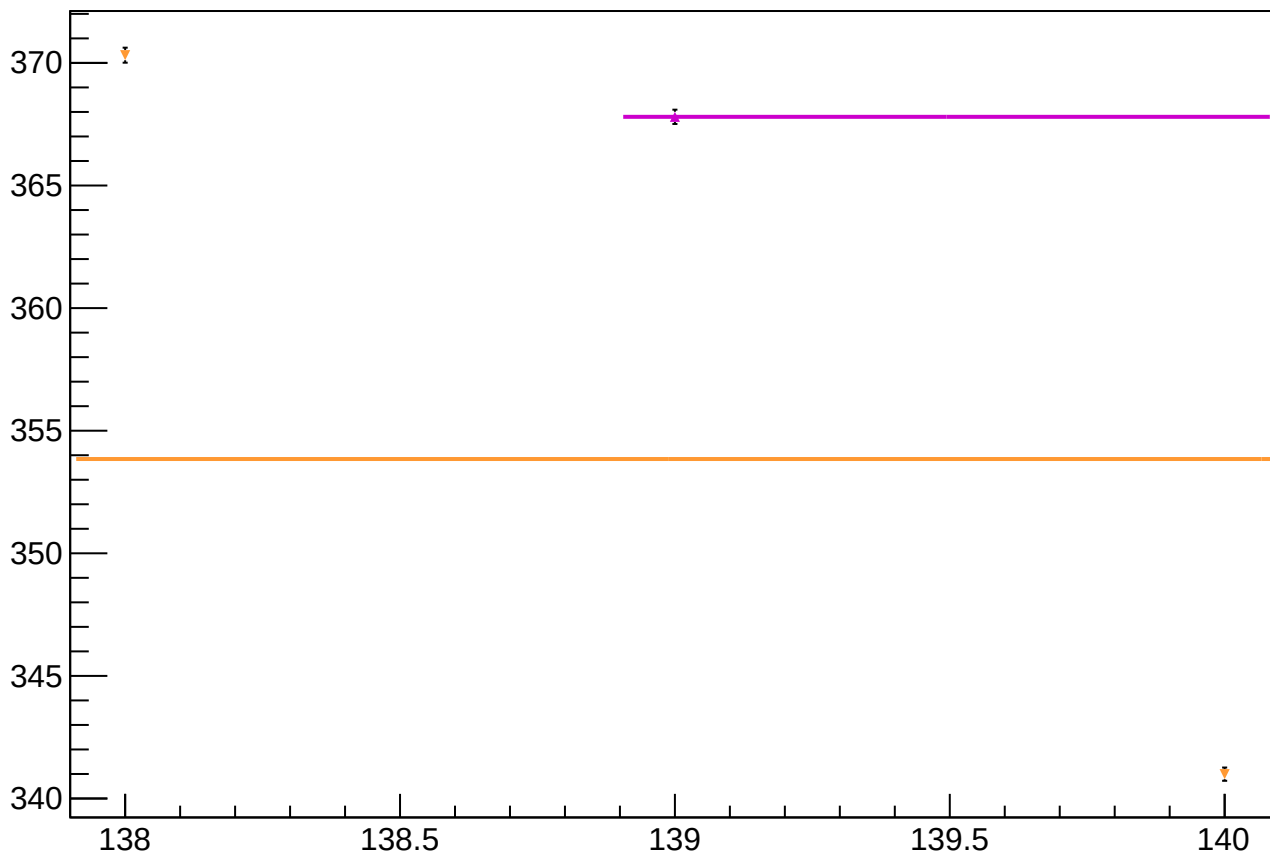
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 44.107 $\pm$ 412.451  $\chi^2$ /NDF:0.0/0

Out: 65.005 $\pm$ 286.764  $\chi^2$ /NDF:4.6/1

All: 58.195 $\pm$ 235.449  $\chi^2$ /NDF: 4.6/2

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: 353.845+/-0.203  $\chi^2/\text{NDF}$ : 5148.4/1

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

Left In: 367.801+/-0.292  $\chi^2/\text{NDF}$ : 0.0/0

Left: 358.393+/-0.166  $\chi^2/\text{NDF}$ : 6692.0/2

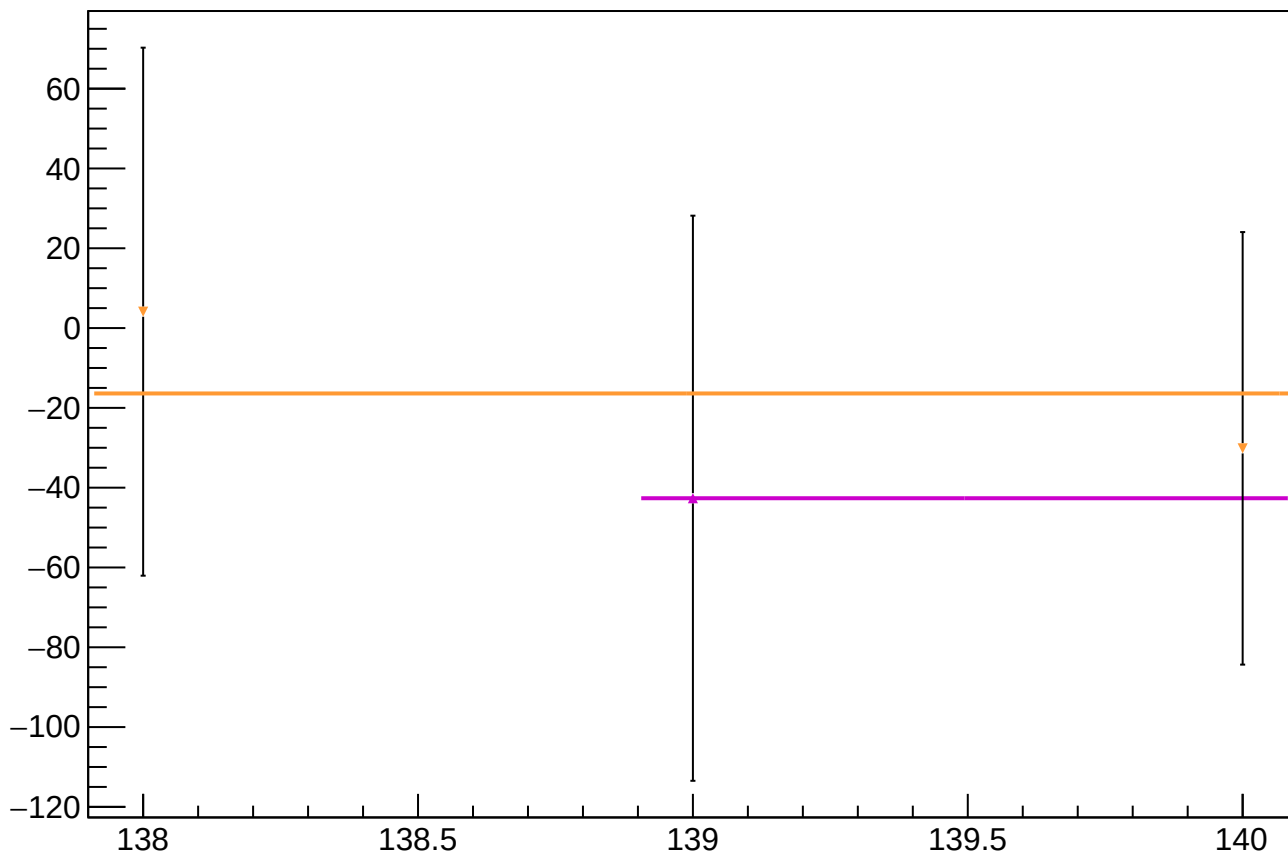
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 367.801+/-0.292  $\chi^2/\text{NDF}$ : 0.0/0

Out: 353.845+/-0.203  $\chi^2/\text{NDF}$ : 5148.4/1

All: 358.393+/-0.166  $\chi^2/\text{NDF}$ : 6692.0/2

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: -16.389+/-41.930  $\chi^2/\text{NDF}$ : 0.2/1

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

Left In: -42.647+/-70.816  $\chi^2/\text{NDF}$ : 0.0/0

Left: -23.205+/-36.080  $\chi^2/\text{NDF}$ : 0.3/2

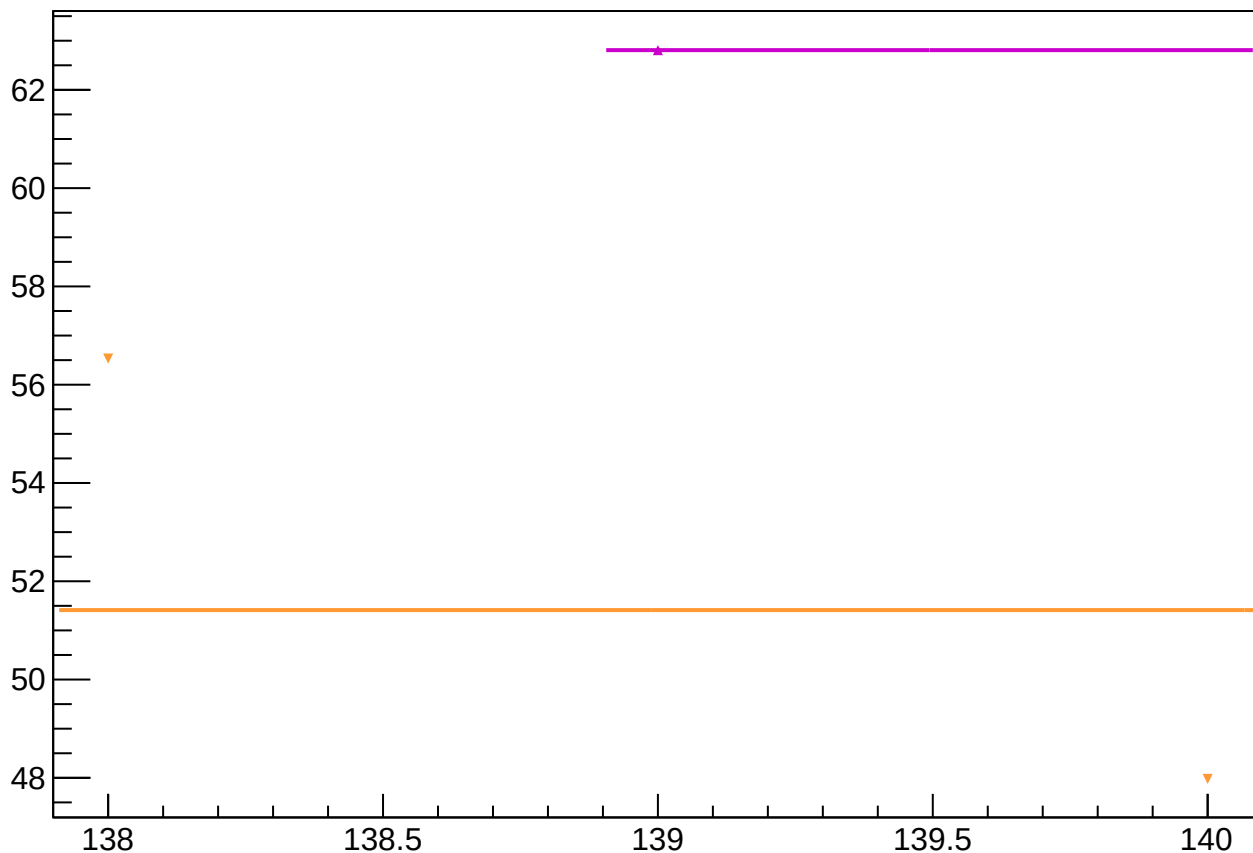
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.647+/-70.816  $\chi^2/\text{NDF}$ : 0.0/0

Out: -16.389+/-41.930  $\chi^2/\text{NDF}$ : 0.2/1

All: -23.205+/-36.080  $\chi^2/\text{NDF}$ : 0.3/2

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: 51.413+/-0.030  $\chi^2/\text{NDF}$ :20005.3/1

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

Left In: 62.808+/-0.050  $\chi^2/\text{NDF}$ :0.0/0

Left: 54.371+/-0.026  $\chi^2/\text{NDF}$ : 58348.8/2

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

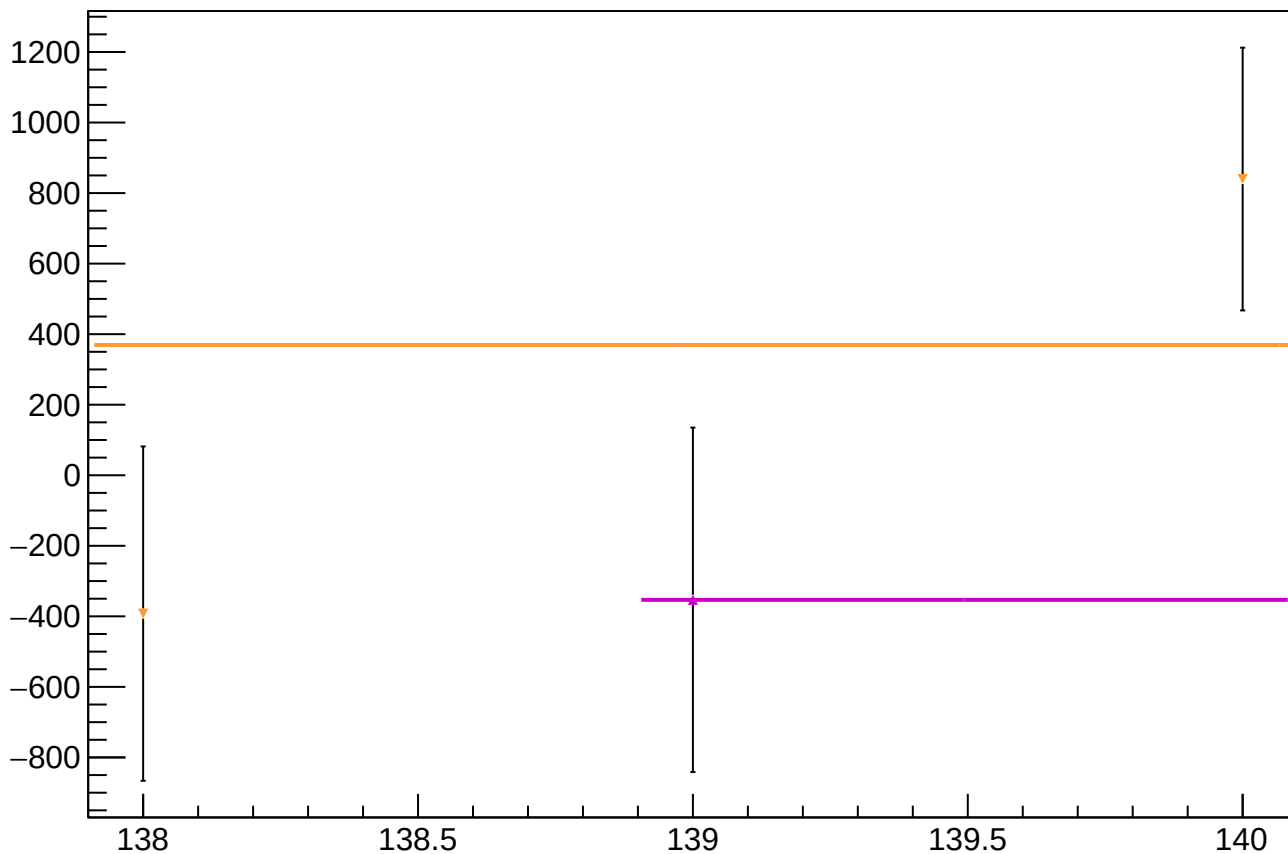
In: 62.808+/-0.050  $\chi^2/\text{NDF}$ :0.0/0

Out: 51.413+/-0.030  $\chi^2/\text{NDF}$ :20005.3/1

All: 54.371+/-0.026  $\chi^2/\text{NDF}$ : 58348.8/2



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: 369.393+/-292.845  $\chi^2/\text{NDF}$ : 4.2/1

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

Left In: -353.183+/-488.233  $\chi^2/\text{NDF}$ : 0.0/0

Left: 178.214+/-251.134  $\chi^2/\text{NDF}$ : 5.8/2

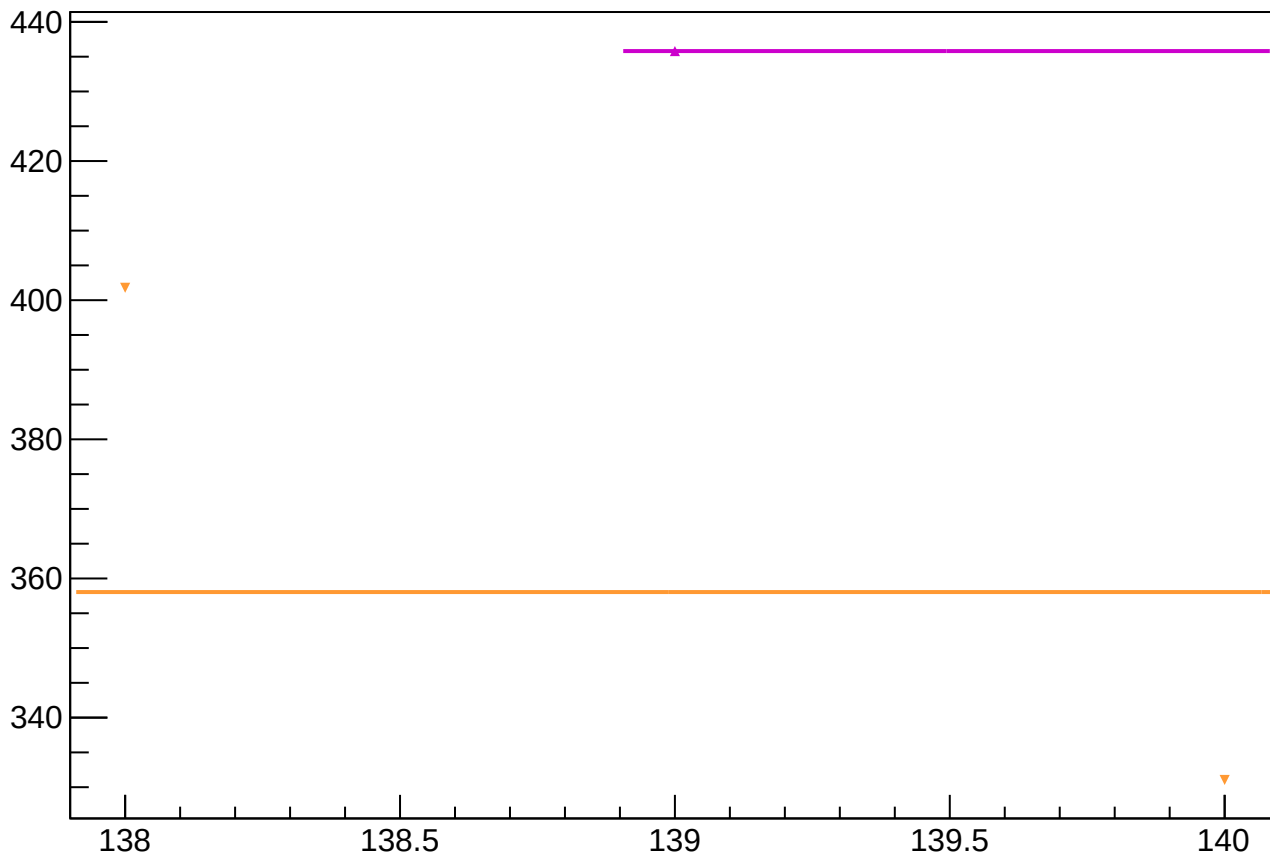
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -353.183+/-488.233  $\chi^2/\text{NDF}$ : 0.0/0

Out: 369.393+/-292.845  $\chi^2/\text{NDF}$ : 4.2/1

All: 178.214+/-251.134  $\chi^2/\text{NDF}$ : 5.8/2

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: 358.048+/-0.207  $\chi^2/\text{NDF}$ : 27548.3/1

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

Left In: 435.806+/-0.345  $\chi^2/\text{NDF}$ : 0.0/0

Left: 378.622+/-0.178  $\chi^2/\text{NDF}$ : 64856.1/2

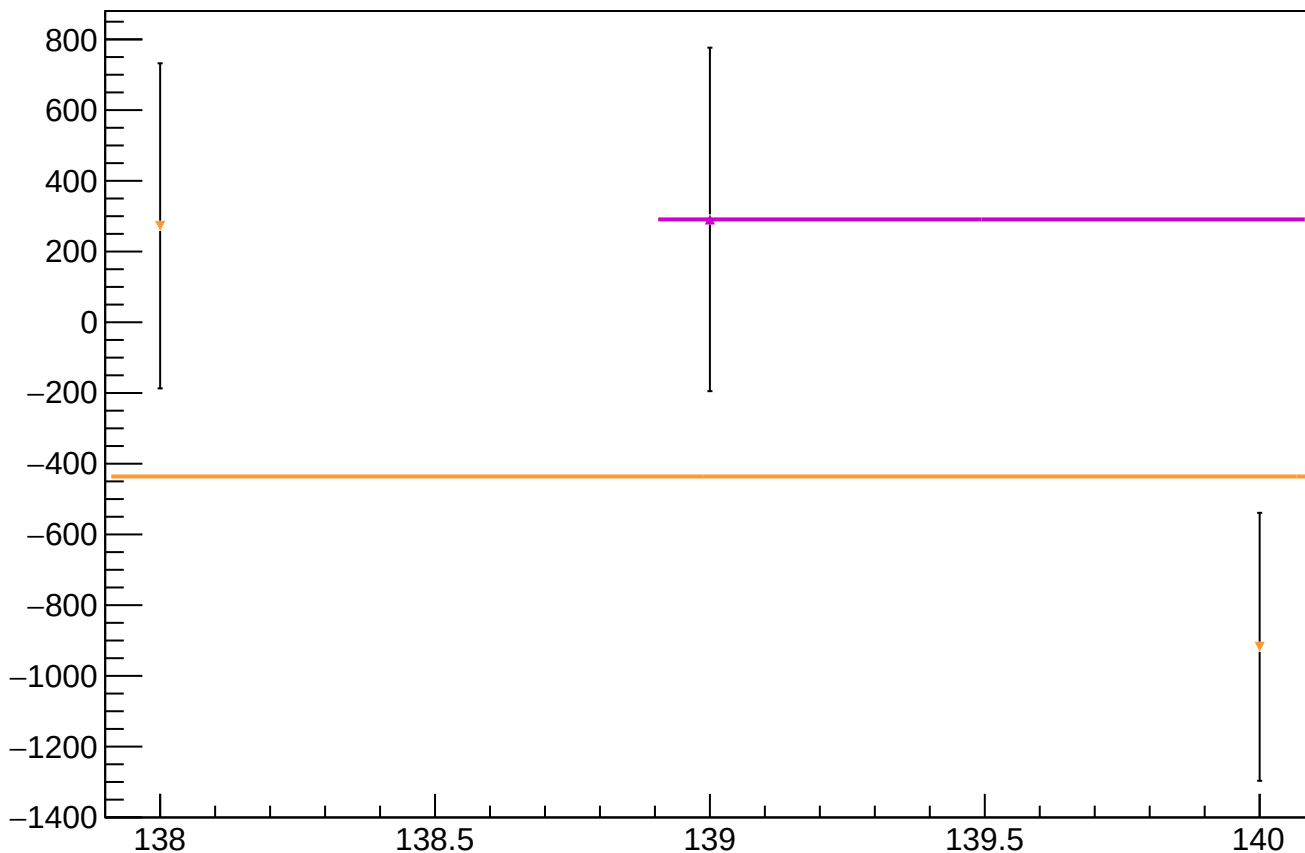
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 435.806+/-0.345  $\chi^2/\text{NDF}$ : 0.0/0

Out: 358.048+/-0.207  $\chi^2/\text{NDF}$ : 27548.3/1

All: 378.622+/-0.178  $\chi^2/\text{NDF}$ : 64856.1/2

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -436.166+/-292.398  $\chi^2/NDF: 4.0/1$

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

Left In: 290.848+/-485.700  $\chi^2/NDF: 0.0/0$

Left: -242.772+/-250.506  $\chi^2/NDF: 5.6/2$

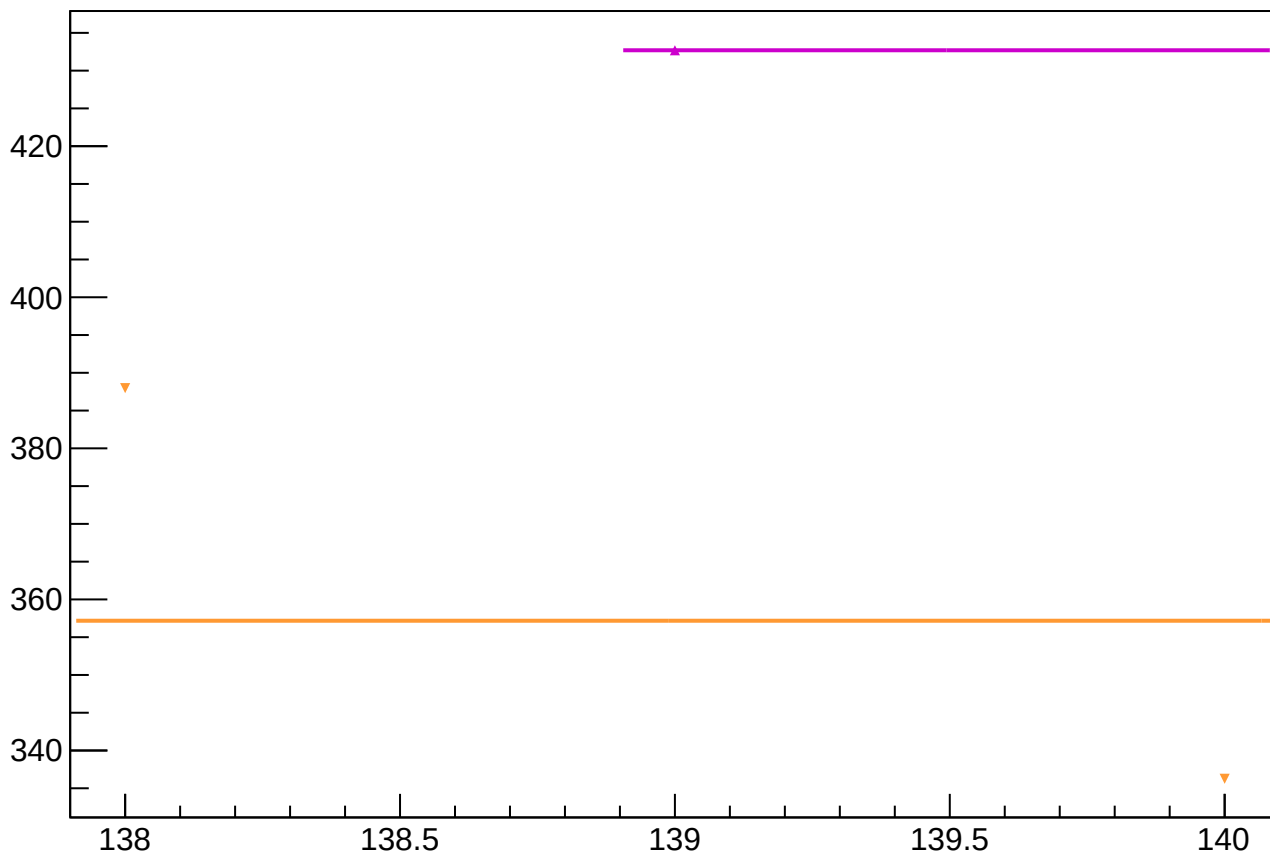
Right: 0.000+/-0.000  $\chi^2/NDF: 0.0/0$

In: 290.848+/-485.700  $\chi^2/NDF: 0.0/0$

Out: -436.166+/-292.398  $\chi^2/NDF: 4.0/1$

All: -242.772+/-250.506  $\chi^2/NDF: 5.6/2$

# 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: 357.179+/-0.207  $\chi^2/\text{NDF}$ :15069.7/1

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

Left In: 432.697+/-0.343  $\chi^2/\text{NDF}$ :0.0/0

Left: 377.268+/-0.177  $\chi^2/\text{NDF}$ : 50557.9/2

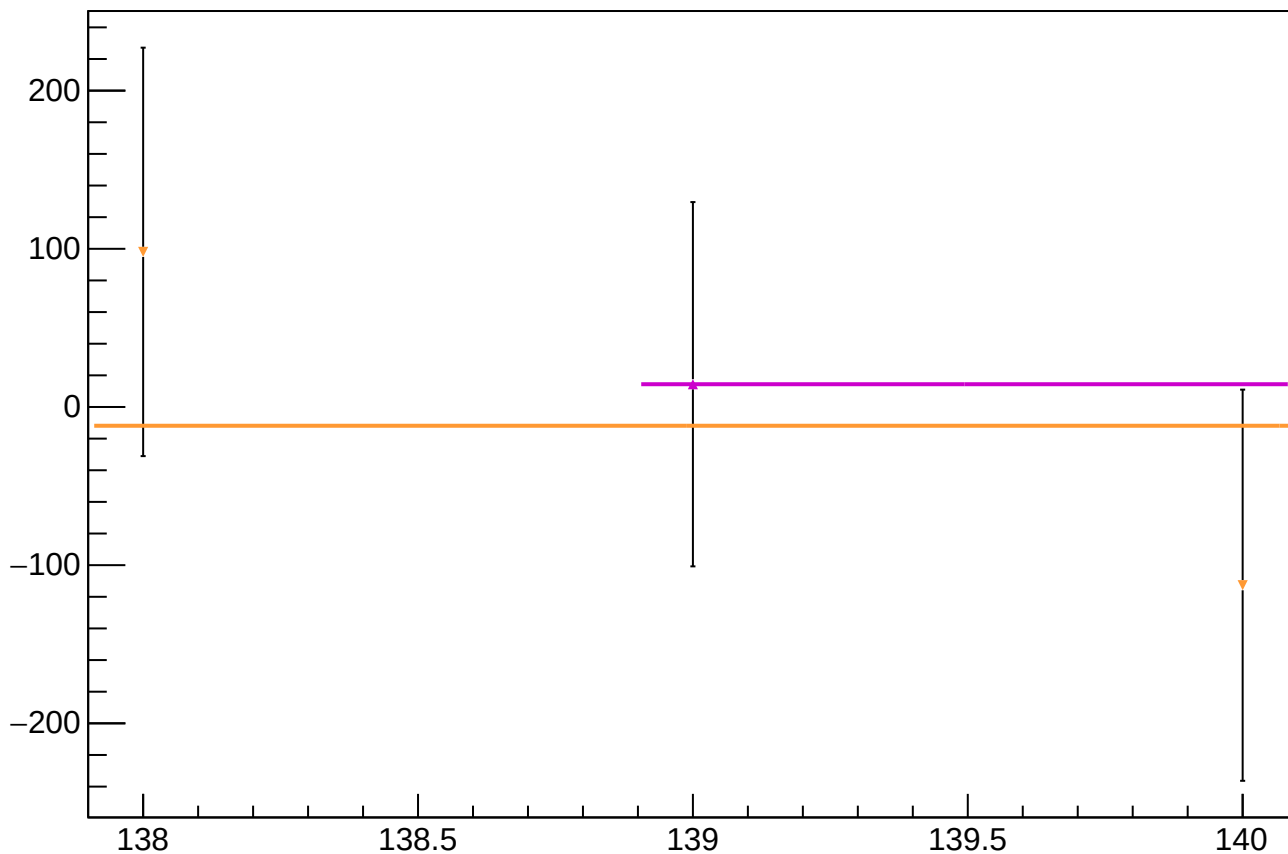
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 432.697+/-0.343  $\chi^2/\text{NDF}$ :0.0/0

Out: 357.179+/-0.207  $\chi^2/\text{NDF}$ :15069.7/1

All: 377.268+/-0.177  $\chi^2/\text{NDF}$ : 50557.9/2

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -11.865+/-89.301  $\chi^2/\text{NDF}$ : 1.4/1

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

Left In: 14.391+/-115.153  $\chi^2/\text{NDF}$ : 0.0/0

Left: -2.005+/-70.568  $\chi^2/\text{NDF}$ : 1.4/2

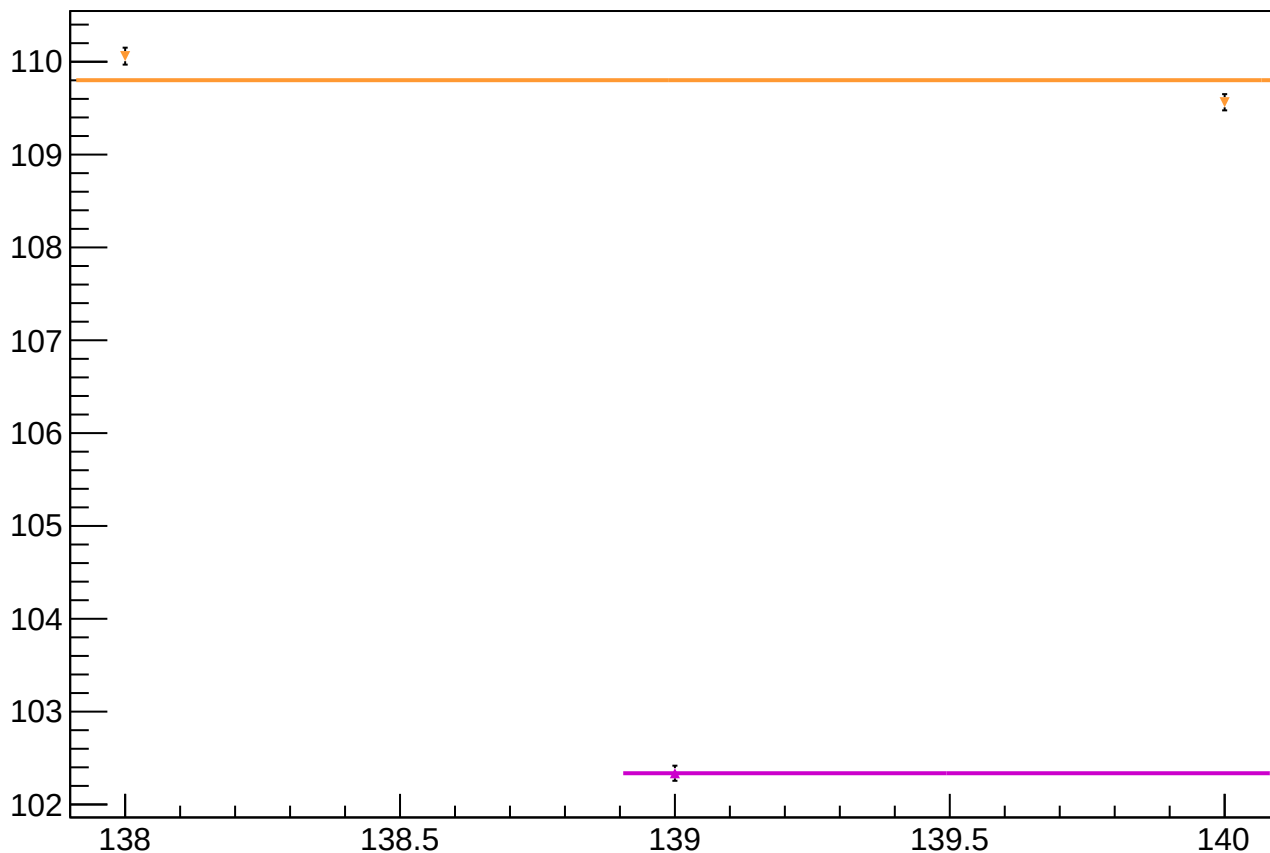
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 14.391+/-115.153  $\chi^2/\text{NDF}$ : 0.0/0

Out: -11.865+/-89.301  $\chi^2/\text{NDF}$ : 1.4/1

All: -2.005+/-70.568  $\chi^2/\text{NDF}$ : 1.4/2

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: 109.801+/-0.063  $\chi^2/\text{NDF}$ :15.4/1

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

Left In: 102.336+/-0.081  $\chi^2/\text{NDF}$ :0.0/0

Left: 106.998+/-0.050  $\chi^2/\text{NDF}$ : 5263.9/2

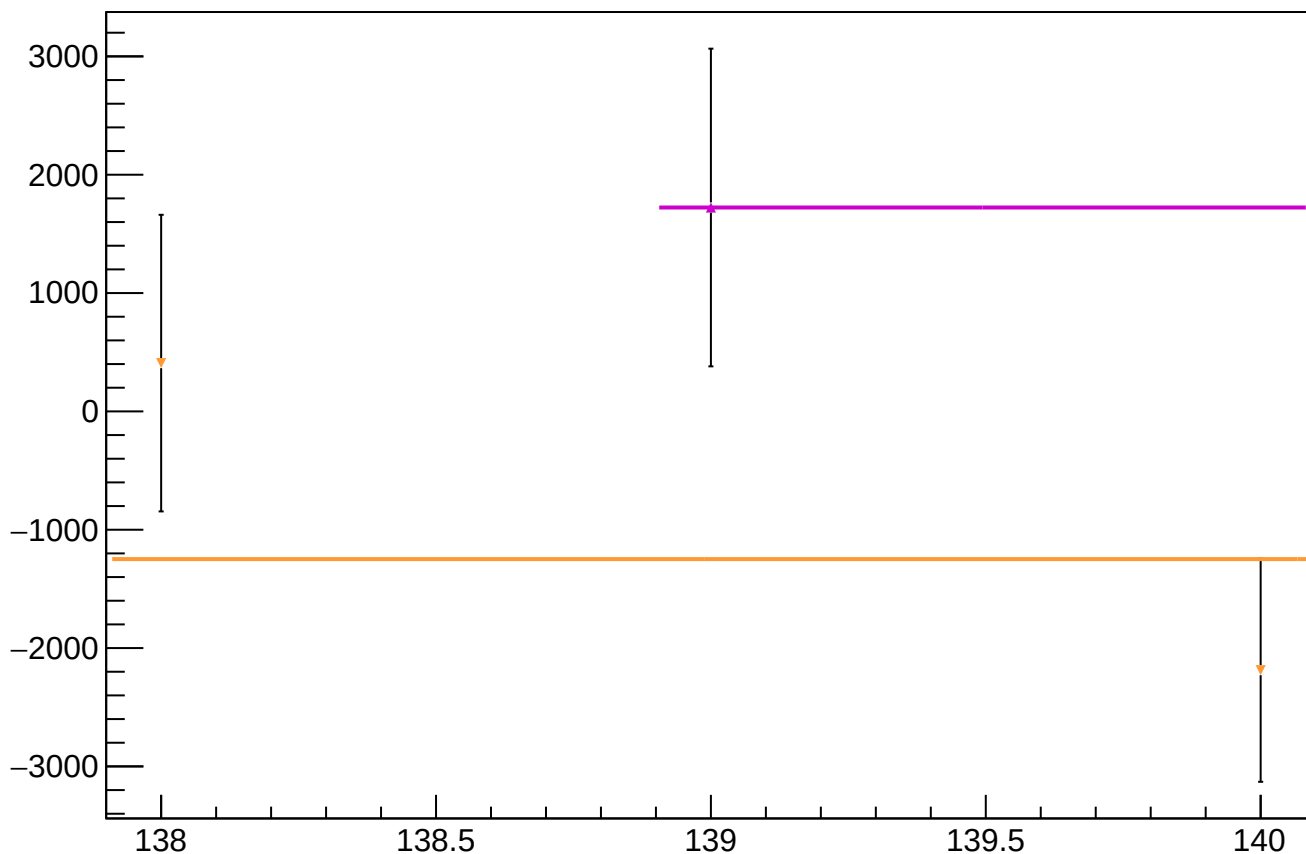
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 102.336+/-0.081  $\chi^2/\text{NDF}$ :0.0/0

Out: 109.801+/-0.063  $\chi^2/\text{NDF}$ :15.4/1

All: 106.998+/-0.050  $\chi^2/\text{NDF}$ : 5263.9/2

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1248.128 $\pm$ 753.717  $\chi^2$ /NDF:2.7/1

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

Left In: 1722.901 $\pm$ 1342.282  $\chi^2$ /NDF:0.0/0

Left: -535.915 $\pm$ 657.196  $\chi^2$ /NDF: 6.5/2

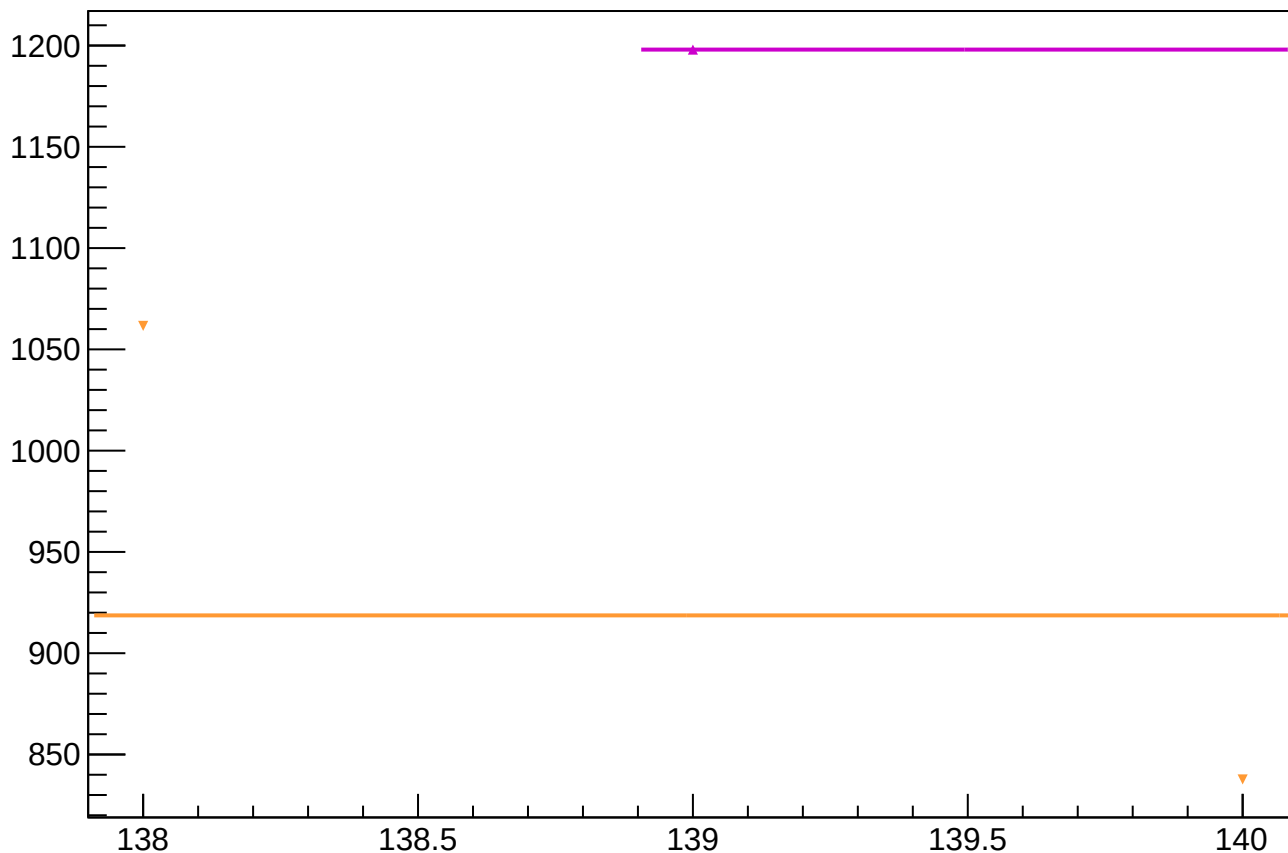
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 1722.901 $\pm$ 1342.282  $\chi^2$ /NDF:0.0/0

Out: -1248.128 $\pm$ 753.717  $\chi^2$ /NDF:2.7/1

All: -535.915 $\pm$ 657.196  $\chi^2$ /NDF: 6.5/2

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: 918.672+/-0.533  $\chi^2/\text{NDF}$ : 40754.1/1

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

Left In: 1197.999+/-0.949  $\chi^2/\text{NDF}$ : 0.0/0

Left: 985.632+/-0.465  $\chi^2/\text{NDF}$ : 106602.0/2

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

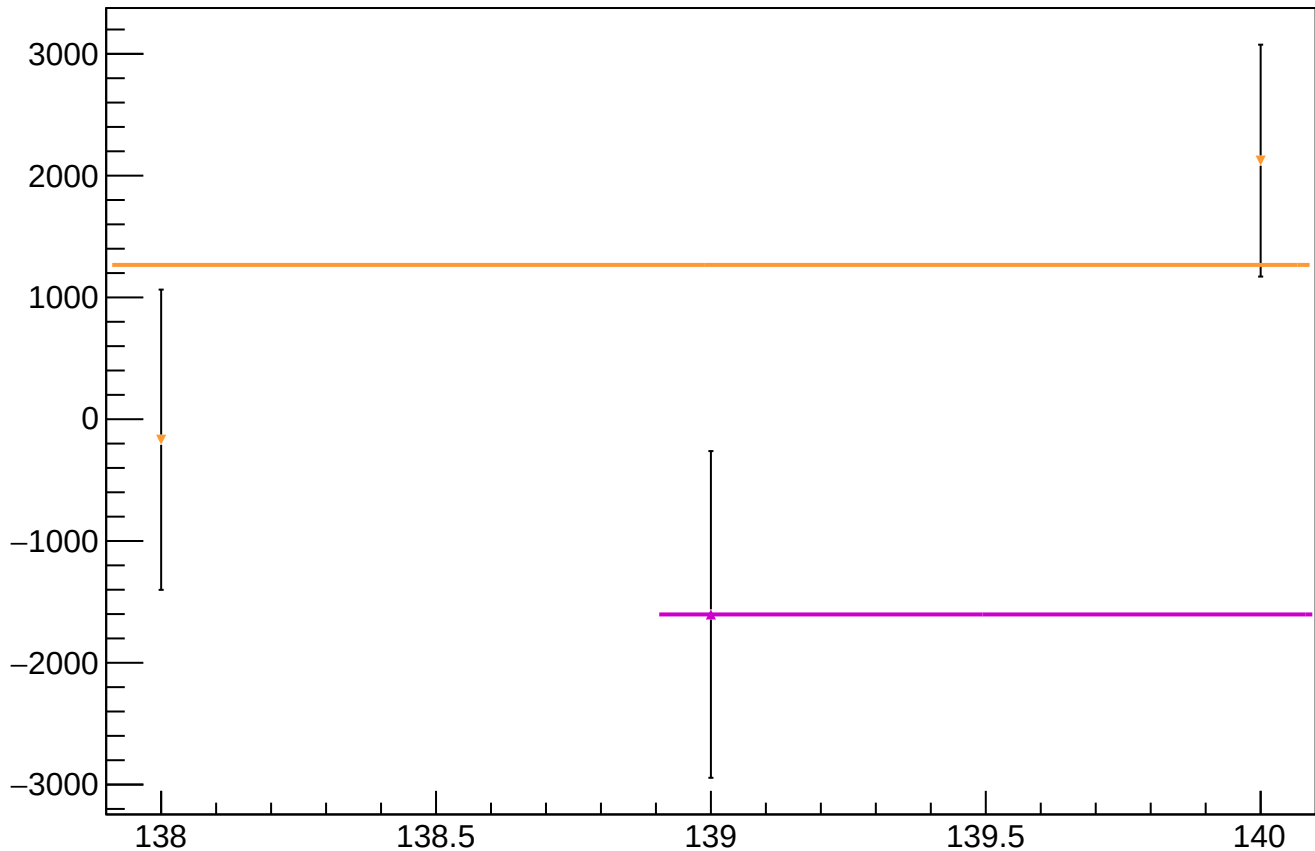
In: 1197.999+/-0.949  $\chi^2/\text{NDF}$ : 0.0/0

Out: 918.672+/-0.533  $\chi^2/\text{NDF}$ : 40754.1/1

All: 985.632+/-0.465  $\chi^2/\text{NDF}$ : 106602.0/2



asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 1267.040+/-753.511  $\chi^2/NDF$ : 2.2/1

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

Left In: -1603.008+/-1341.352  $\chi^2/NDF$ : 0.0/0

Left: 578.596+/-656.951  $\chi^2/NDF$ : 5.6/2

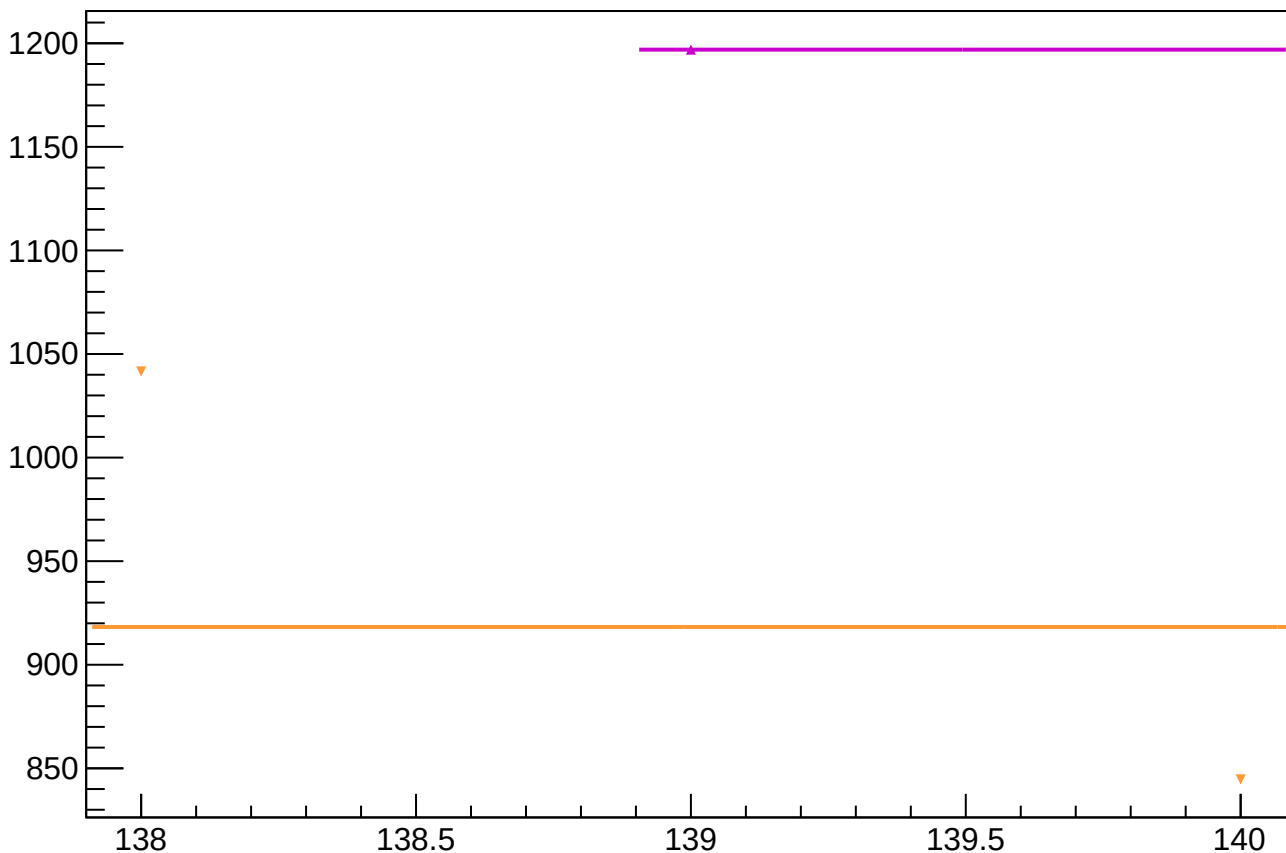
Right: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

In: -1603.008+/-1341.352  $\chi^2/NDF$ : 0.0/0

Out: 1267.040+/-753.511  $\chi^2/NDF$ : 2.2/1

All: 578.596+/-656.951  $\chi^2/NDF$ : 5.6/2

# 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: 918.233+/-0.533  $\chi^2/\text{NDF}$ : 31970.8/1

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

Left In: 1196.932+/-0.948  $\chi^2/\text{NDF}$ : 0.0/0

Left: 985.085+/-0.465  $\chi^2/\text{NDF}$ : 97600.8/2

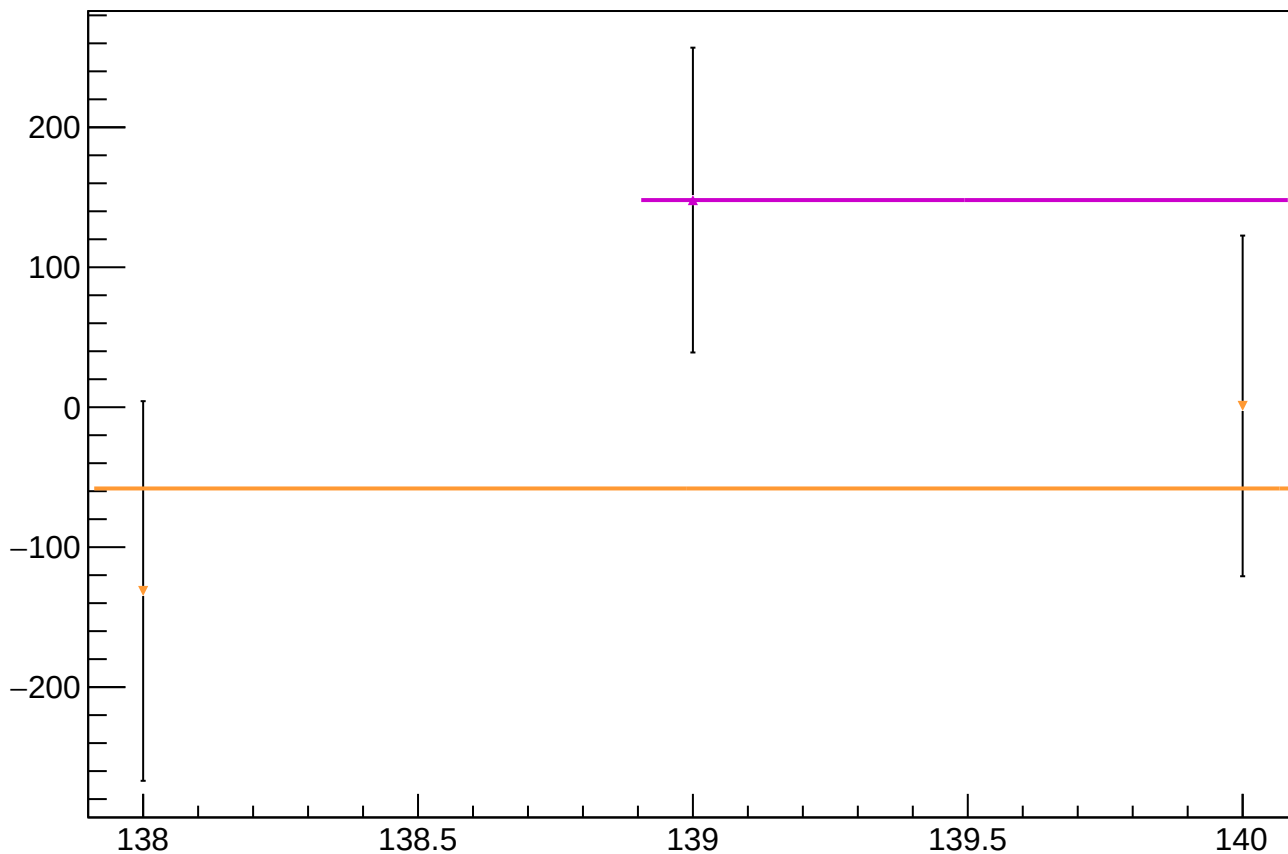
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1196.932+/-0.948  $\chi^2/\text{NDF}$ : 0.0/0

Out: 918.233+/-0.533  $\chi^2/\text{NDF}$ : 31970.8/1

All: 985.085+/-0.465  $\chi^2/\text{NDF}$ : 97600.8/2

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -58.055 $\pm$ 90.583  $\chi^2$ /NDF:0.5/1

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

Left In: 148.008 $\pm$ 108.898  $\chi^2$ /NDF:0.0/0

Left: 26.215 $\pm$ 69.639  $\chi^2$ /NDF: 2.6/2

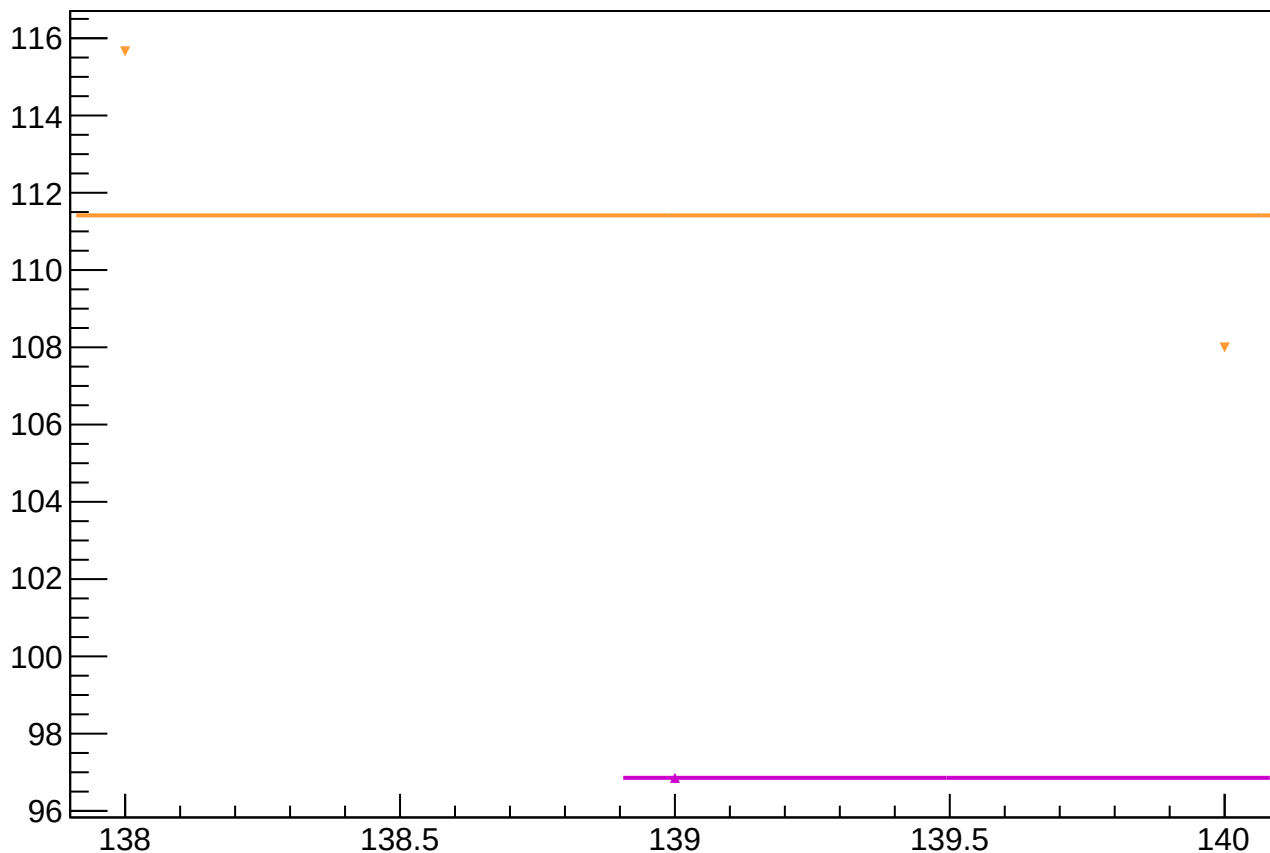
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 148.008 $\pm$ 108.898  $\chi^2$ /NDF:0.0/0

Out: -58.055 $\pm$ 90.583  $\chi^2$ /NDF:0.5/1

All: 26.215 $\pm$ 69.639  $\chi^2$ /NDF: 2.6/2

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: 111.414+/-0.064  $\chi^2/\text{NDF}$ : 3537.4/1

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

Left In: 96.856+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left: 105.461+/-0.049  $\chi^2/\text{NDF}$ : 24663.1/2

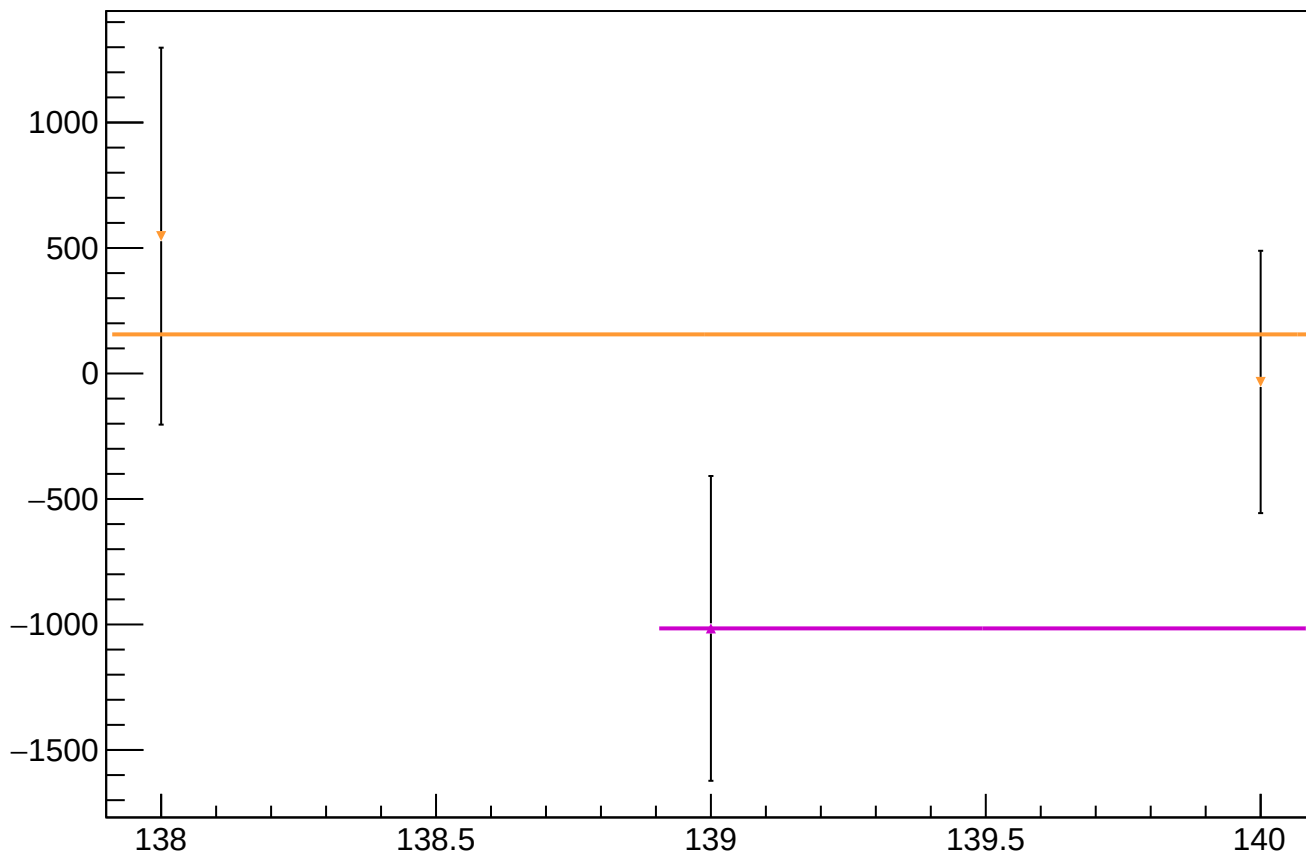
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 96.856+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 111.414+/-0.064  $\chi^2/\text{NDF}$ : 3537.4/1

All: 105.461+/-0.049  $\chi^2/\text{NDF}$ : 24663.1/2

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: 155.828+/-428.947  $\chi^2/\text{NDF}$ : 0.4/1

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

Left In: -1015.625+/-607.205  $\chi^2/\text{NDF}$ : 0.0/0

Left: -234.157+/-350.346  $\chi^2/\text{NDF}$ : 2.9/2

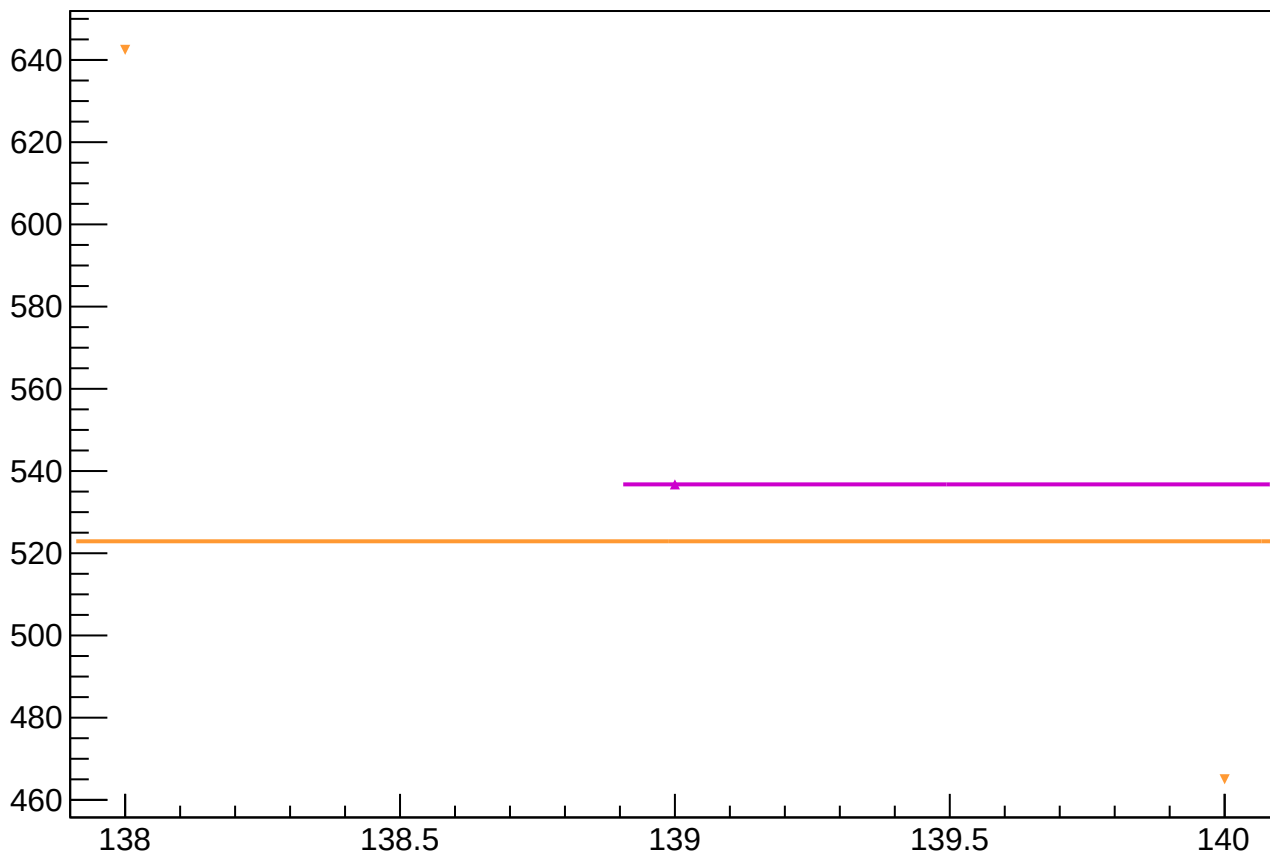
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1015.625+/-607.205  $\chi^2/\text{NDF}$ : 0.0/0

Out: 155.828+/-428.947  $\chi^2/\text{NDF}$ : 0.4/1

All: -234.157+/-350.346  $\chi^2/\text{NDF}$ : 2.9/2

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: 522.909+/-0.303  $\chi^2/\text{NDF}$ : 75235.0/1

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

Left In: 536.754+/-0.429  $\chi^2/\text{NDF}$ : 0.0/0

Left: 527.518+/-0.248  $\chi^2/\text{NDF}$ : 75928.7/2

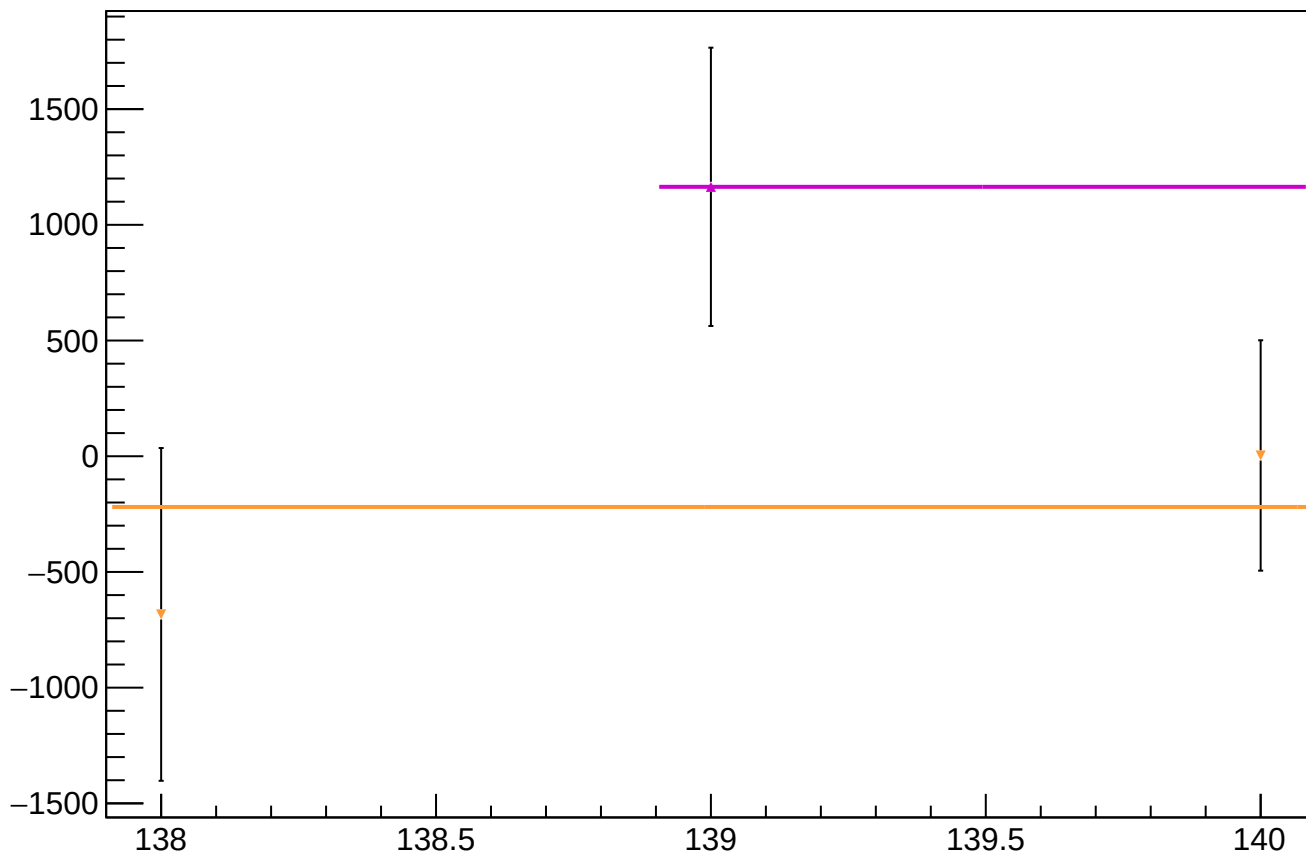
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 536.754+/-0.429  $\chi^2/\text{NDF}$ : 0.0/0

Out: 522.909+/-0.303  $\chi^2/\text{NDF}$ : 75235.0/1

All: 527.518+/-0.248  $\chi^2/\text{NDF}$ : 75928.7/2

asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -219.186+/-409.274  $\chi^2$ /NDF:0.6/1

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

Left In: 1164.228+/-601.314  $\chi^2$ /NDF:0.0/0

Left: 218.796+/-338.340  $\chi^2$ /NDF: 4.2/2

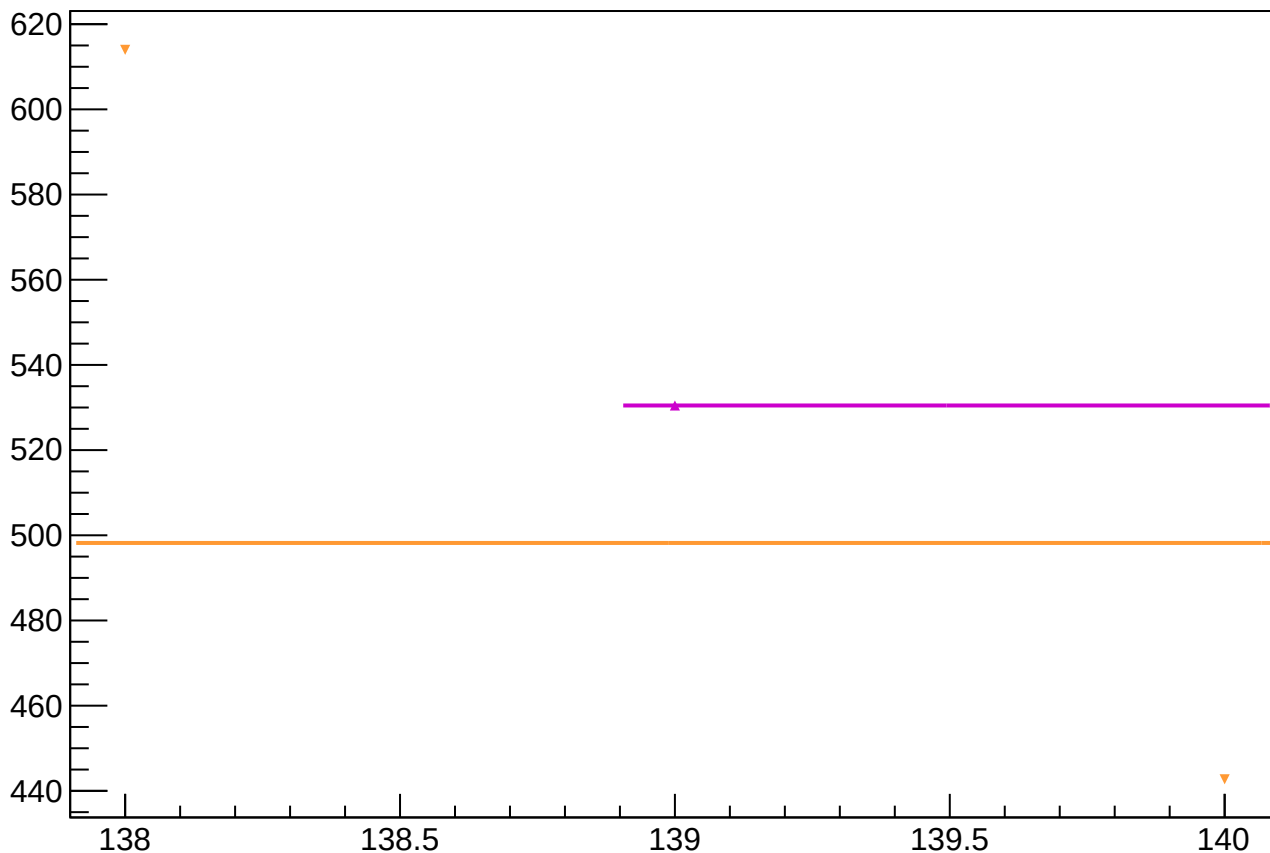
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 1164.228+/-601.314  $\chi^2$ /NDF:0.0/0

Out: -219.186+/-409.274  $\chi^2$ /NDF:0.6/1

All: 218.796+/-338.340  $\chi^2$ /NDF: 4.2/2

# 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: 498.202+/-0.289  $\chi^2/\text{NDF}$ : 76701.7/1

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

Left In: 530.478+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Left: 508.420+/-0.239  $\chi^2/\text{NDF}$ : 80639.4/2

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

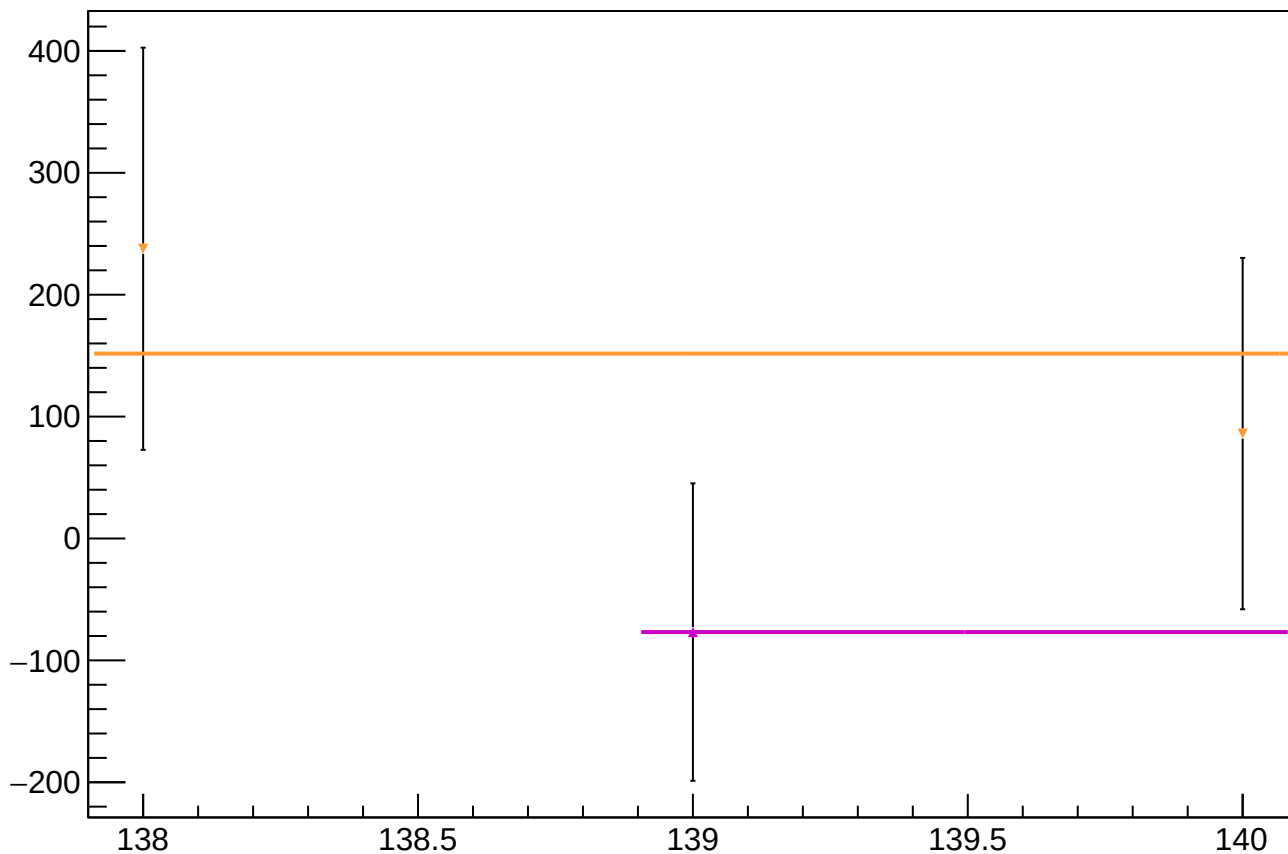
In: 530.478+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Out: 498.202+/-0.289  $\chi^2/\text{NDF}$ : 76701.7/1

All: 508.420+/-0.239  $\chi^2/\text{NDF}$ : 80639.4/2



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: 151.694+/-108.535  $\chi^2/\text{NDF}$ : 0.5/1

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

Left In: -76.779+/-122.019  $\chi^2/\text{NDF}$ : 0.0/0

Left: 50.775+/-81.096  $\chi^2/\text{NDF}$ : 2.4/2

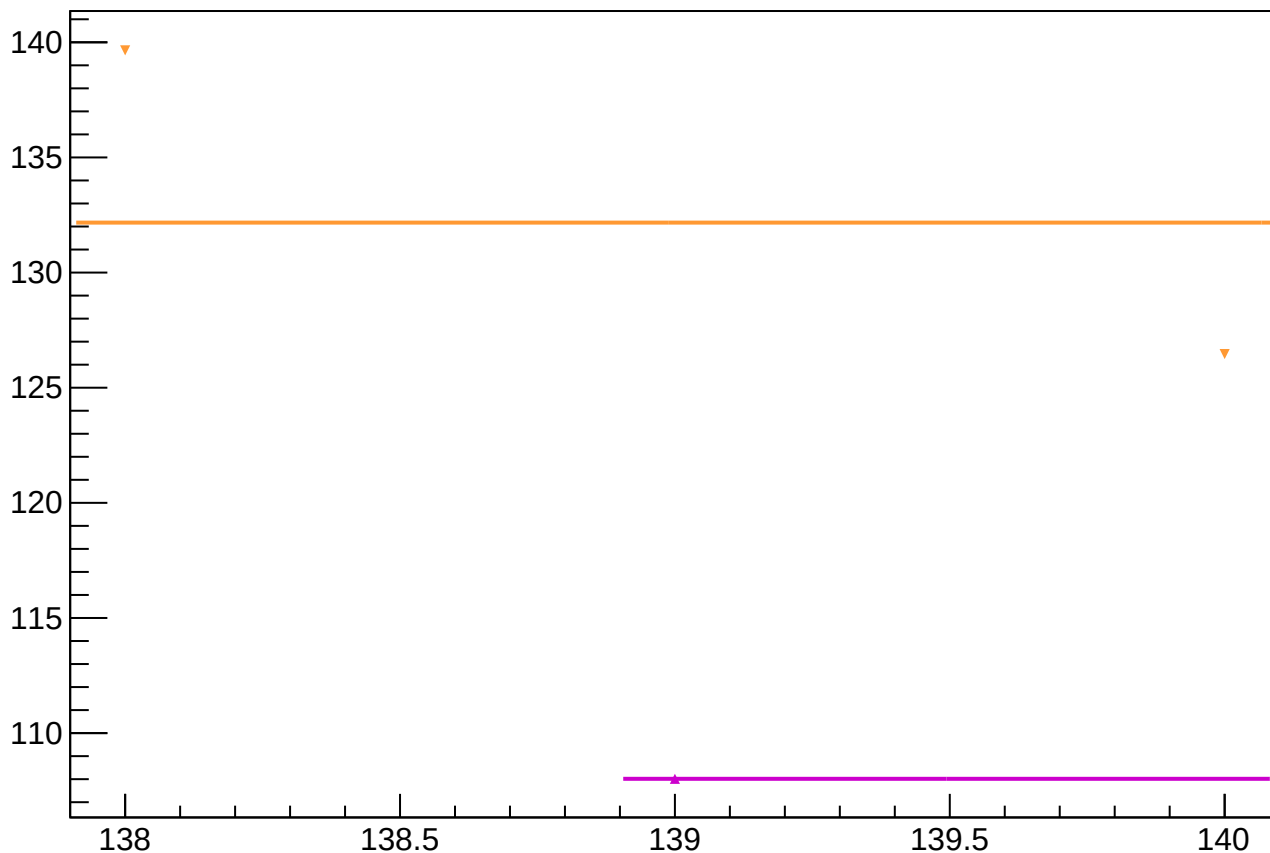
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -76.779+/-122.019  $\chi^2/\text{NDF}$ : 0.0/0

Out: 151.694+/-108.535  $\chi^2/\text{NDF}$ : 0.5/1

All: 50.775+/-81.096  $\chi^2/\text{NDF}$ : 2.4/2

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: 132.170+/-0.077  $\chi^2/\text{NDF}$ : 7249.6/1

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

Left In: 108.016+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left: 121.501+/-0.057  $\chi^2/\text{NDF}$ : 51004.4/2

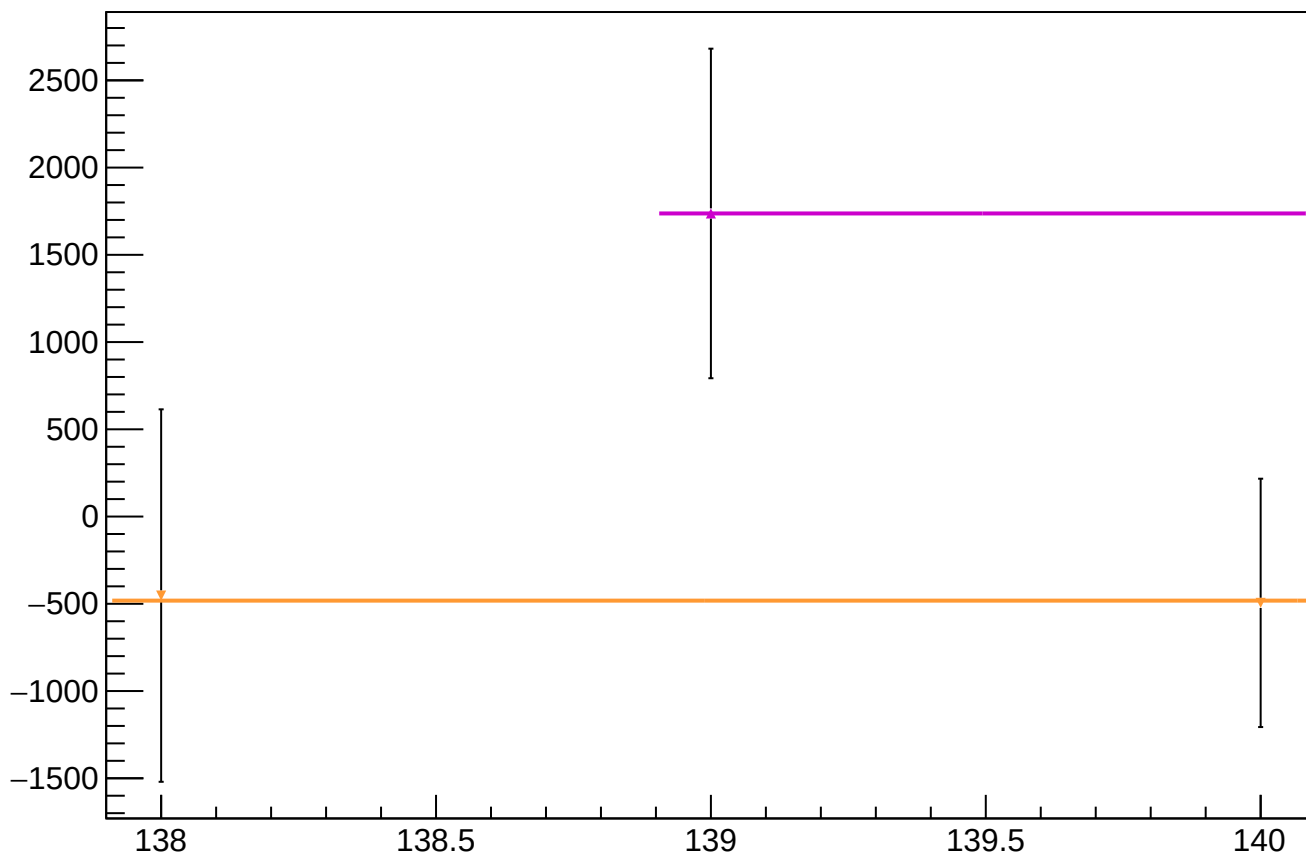
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 108.016+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 132.170+/-0.077  $\chi^2/\text{NDF}$ : 7249.6/1

All: 121.501+/-0.057  $\chi^2/\text{NDF}$ : 51004.4/2

asym\_sam\_1548\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -481.862 $\pm$ 592.109  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 1737.132 $\pm$ 944.398  $\chi^2/\text{NDF}$ : 0.0/0

Left: 144.277 $\pm$ 501.663  $\chi^2/\text{NDF}$ : 4.0/2

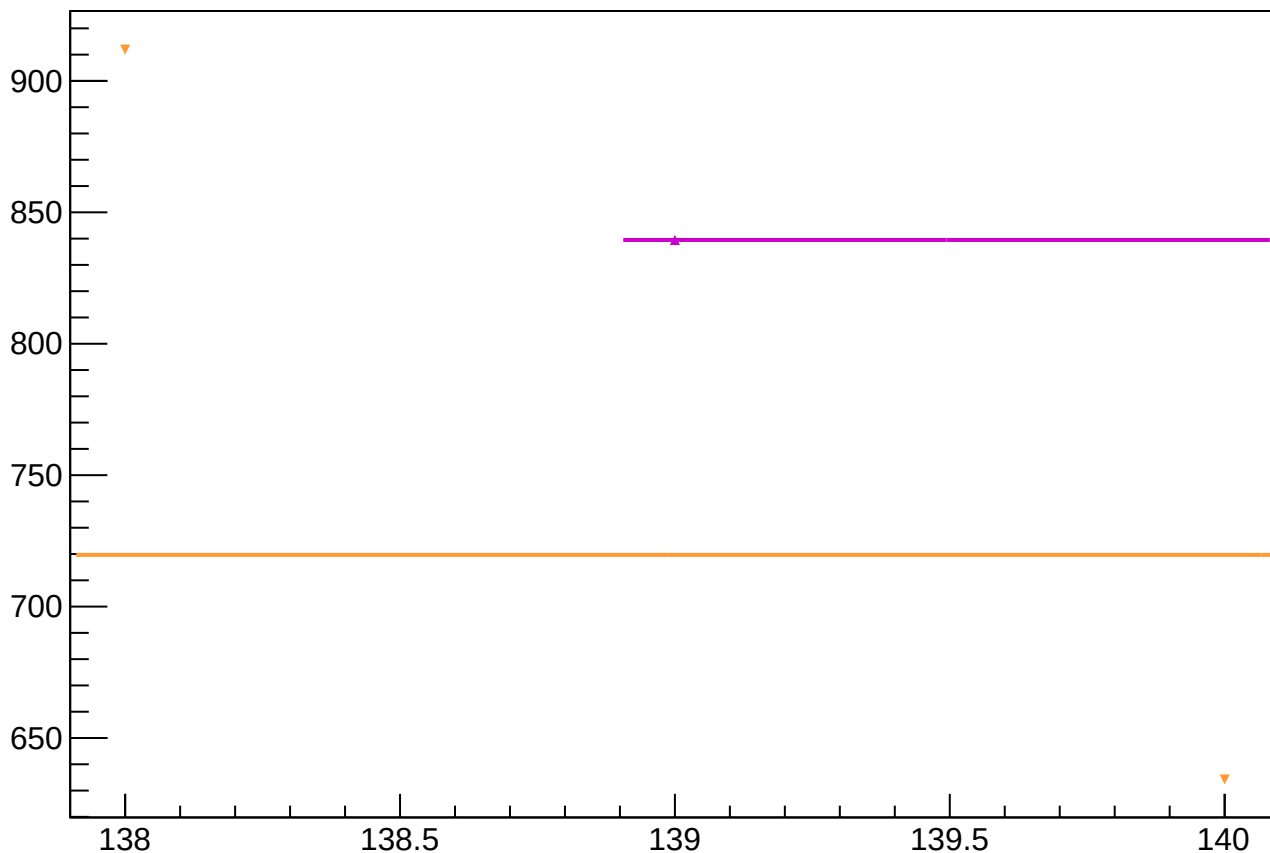
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1737.132 $\pm$ 944.398  $\chi^2/\text{NDF}$ : 0.0/0

Out: -481.862 $\pm$ 592.109  $\chi^2/\text{NDF}$ : 0.0/1

All: 144.277 $\pm$ 501.663  $\chi^2/\text{NDF}$ : 4.0/2

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: 719.673+/-0.419  $\chi^2/\text{NDF}$ : 93701.2/1

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

Left In: 839.490+/-0.668  $\chi^2/\text{NDF}$ : 0.0/0

Left: 753.482+/-0.355  $\chi^2/\text{NDF}$ : 116810.3/2

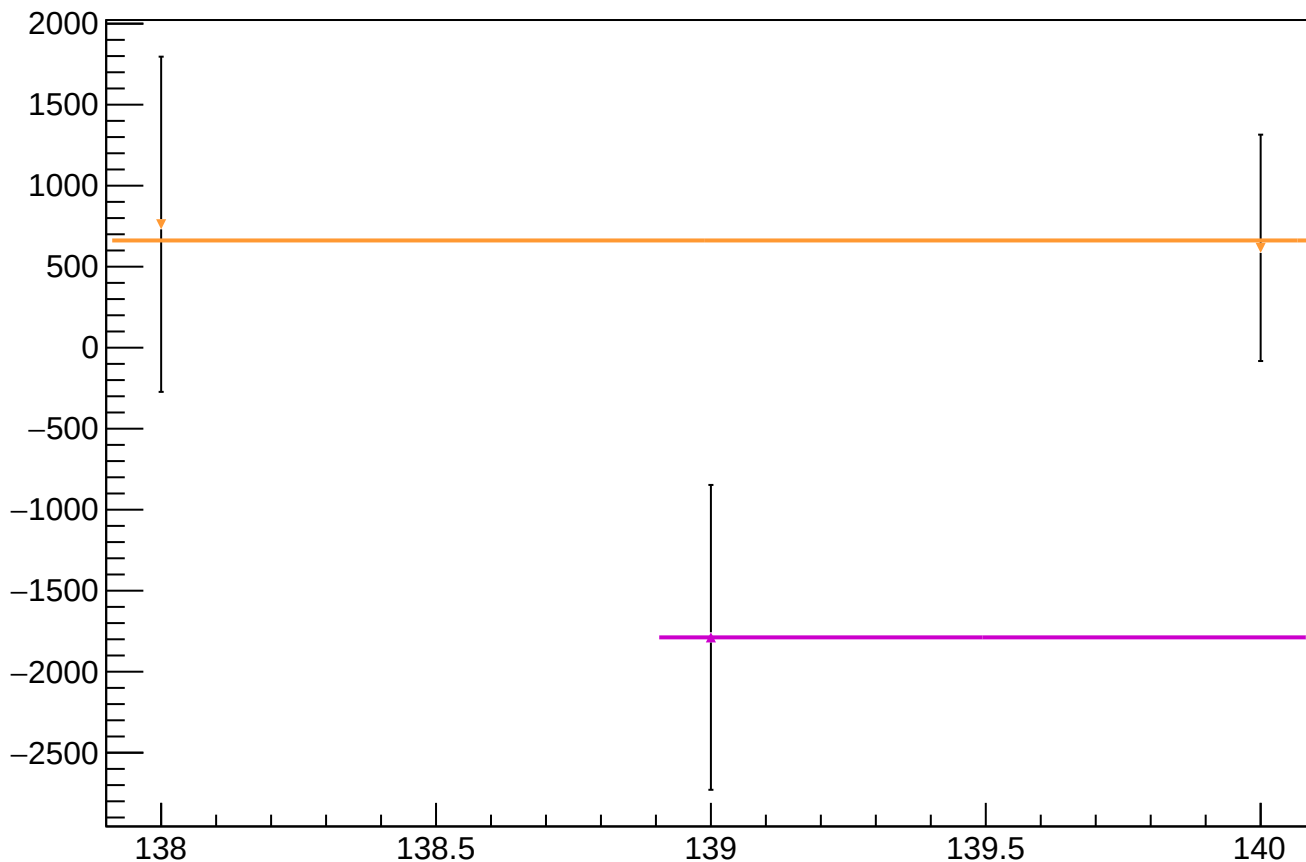
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 839.490+/-0.668  $\chi^2/\text{NDF}$ : 0.0/0

Out: 719.673+/-0.419  $\chi^2/\text{NDF}$ : 93701.2/1

All: 753.482+/-0.355  $\chi^2/\text{NDF}$ : 116810.3/2

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 661.817+/-579.006  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -1788.122+/-940.873  $\chi^2/\text{NDF}$ : 0.0/0

Left: -11.139+/-493.114  $\chi^2/\text{NDF}$ : 4.9/2

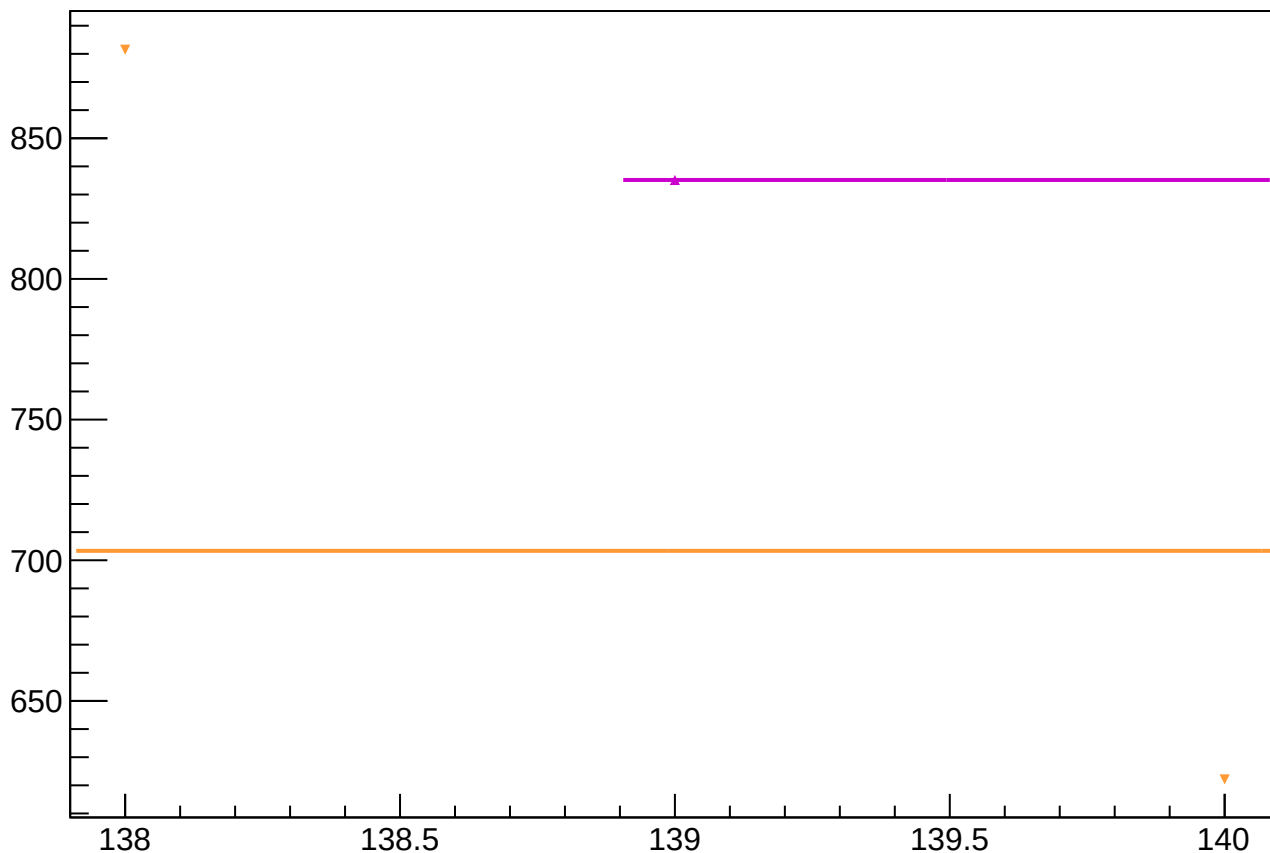
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1788.122+/-940.873  $\chi^2/\text{NDF}$ : 0.0/0

Out: 661.817+/-579.006  $\chi^2/\text{NDF}$ : 0.0/1

All: -11.139+/-493.114  $\chi^2/\text{NDF}$ : 4.9/2

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 703.347+/-0.409  $\chi^2/\text{NDF}$ : 86327.3/1

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

Left In: 835.174+/-0.665  $\chi^2/\text{NDF}$ : 0.0/0

Left: 739.558+/-0.349  $\chi^2/\text{NDF}$ : 114805.0/2

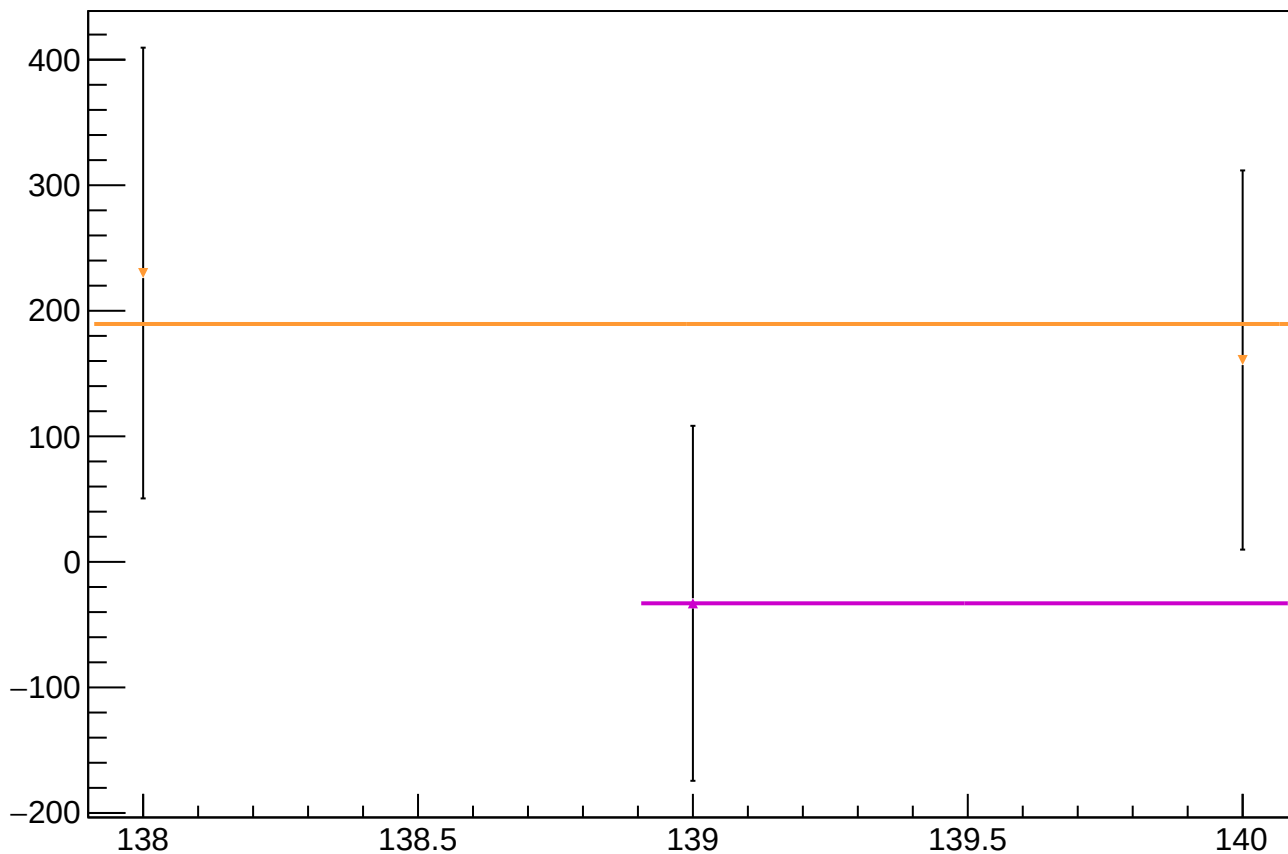
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 835.174+/-0.665  $\chi^2/\text{NDF}$ : 0.0/0

Out: 703.347+/-0.409  $\chi^2/\text{NDF}$ : 86327.3/1

All: 739.558+/-0.349  $\chi^2/\text{NDF}$ : 114805.0/2

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 189.486+/-115.558  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: -32.998+/-141.370  $\chi^2/\text{NDF}$ : 0.0/0

Left: 100.373+/-89.470  $\chi^2/\text{NDF}$ : 1.6/2

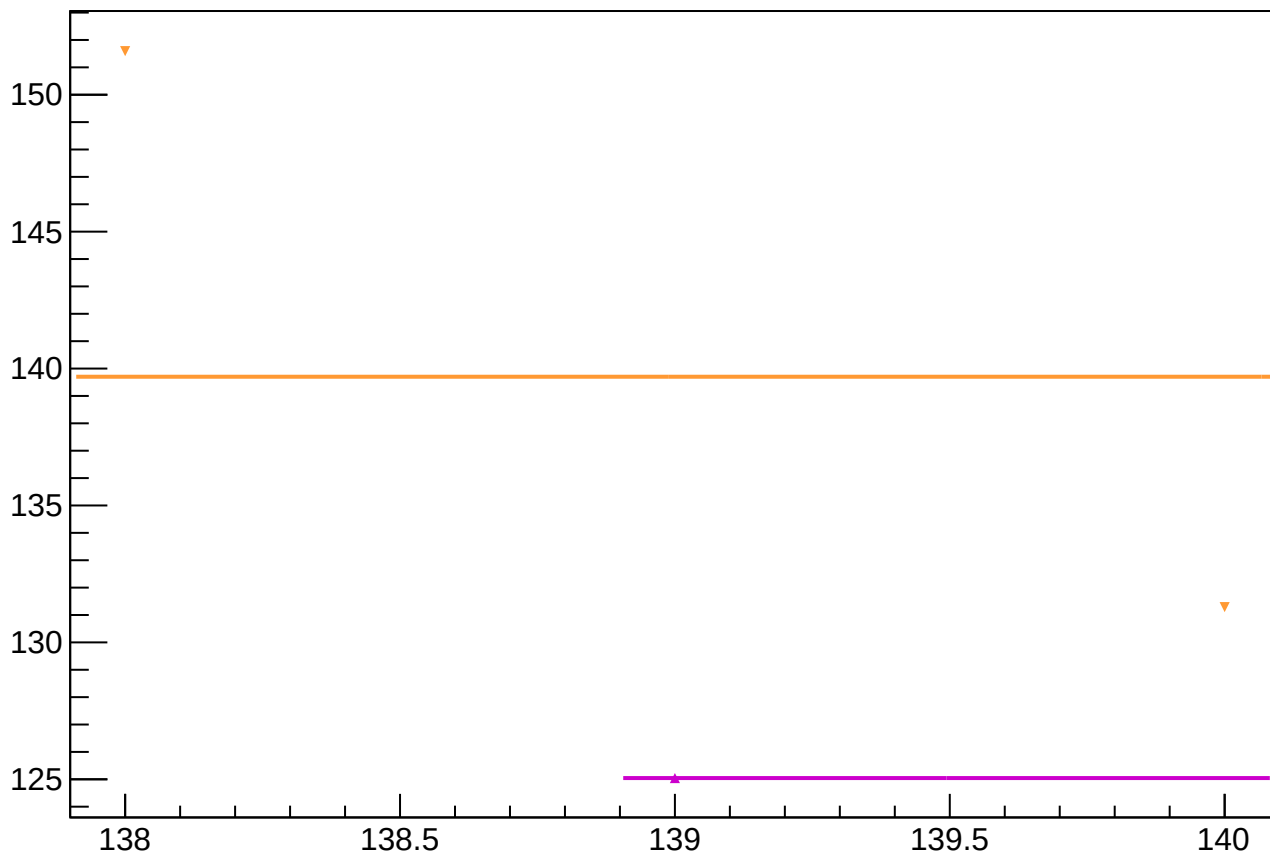
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -32.998+/-141.370  $\chi^2/\text{NDF}$ : 0.0/0

Out: 189.486+/-115.558  $\chi^2/\text{NDF}$ : 0.1/1

All: 100.373+/-89.470  $\chi^2/\text{NDF}$ : 1.6/2

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: 139.701+/-0.082  $\chi^2/\text{NDF}$ :14983.8/1

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

Left In: 125.045+/-0.100  $\chi^2/\text{NDF}$ :0.0/0

Left: 133.831+/-0.063  $\chi^2/\text{NDF}$ : 27870.1/2

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

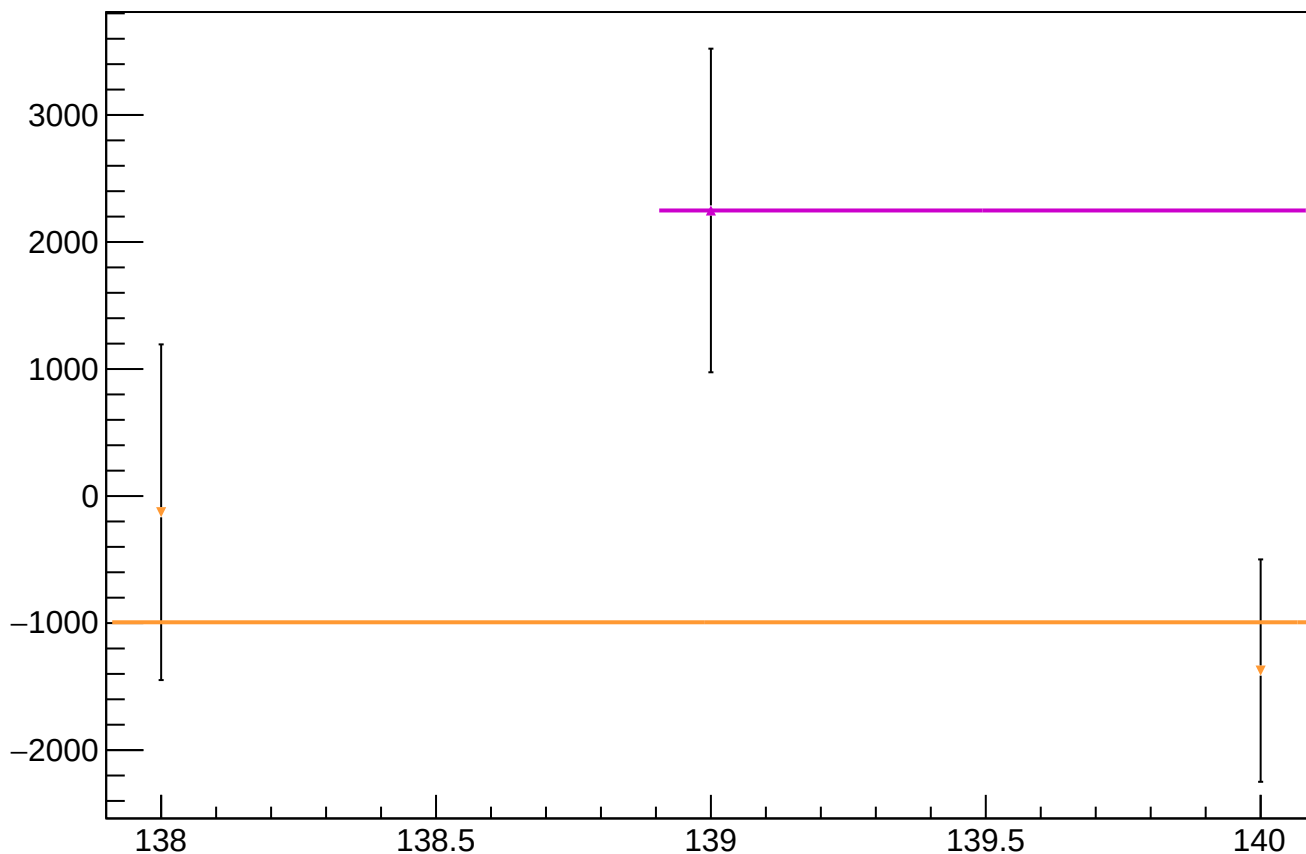
In: 125.045+/-0.100  $\chi^2/\text{NDF}$ :0.0/0

Out: 139.701+/-0.082  $\chi^2/\text{NDF}$ :14983.8/1

All: 133.831+/-0.063  $\chi^2/\text{NDF}$ : 27870.1/2



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: -993.674+/-729.766  $\chi^2/\text{NDF}$ : 0.6/1

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

Left In: 2248.156+/-1273.791  $\chi^2/\text{NDF}$ : 0.0/0

Left: -192.569+/-633.210  $\chi^2/\text{NDF}$ : 5.5/2

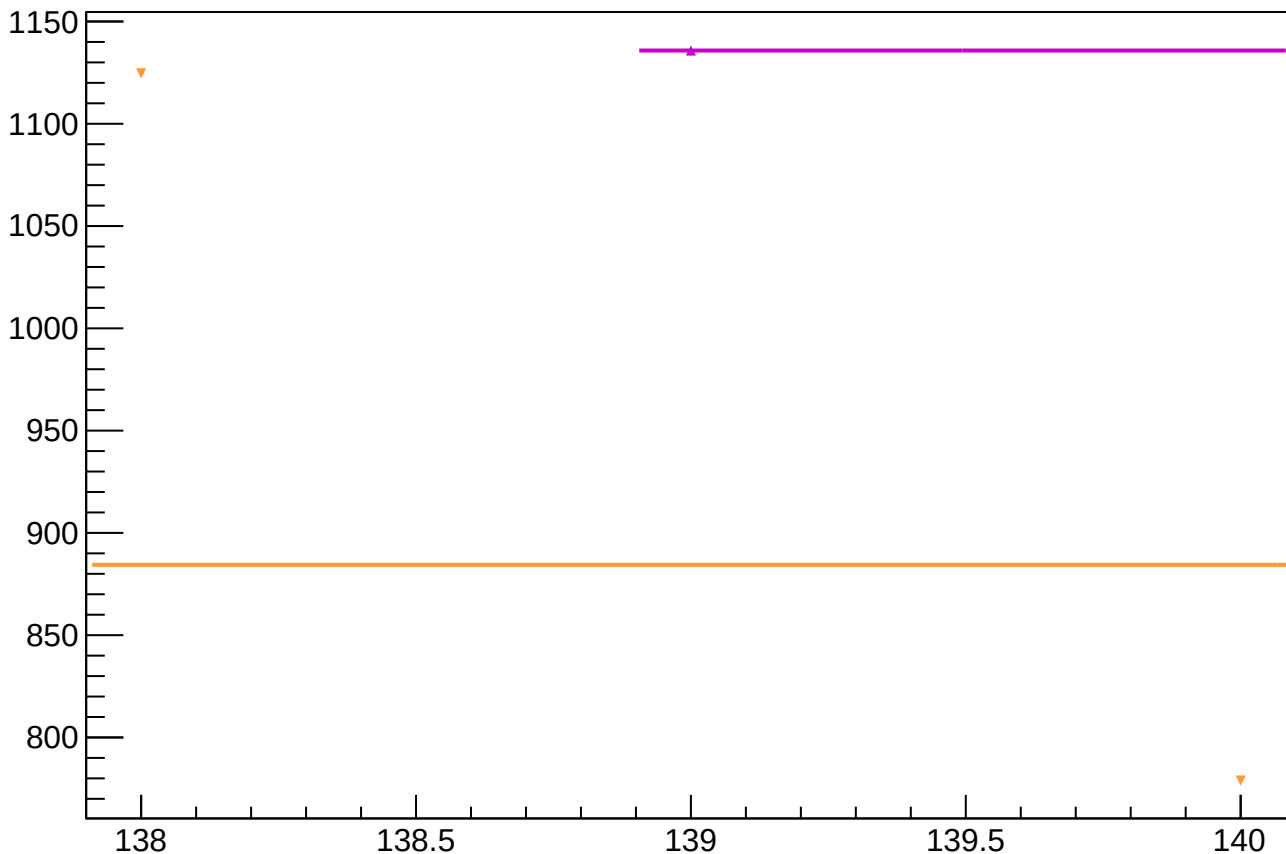
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2248.156+/-1273.791  $\chi^2/\text{NDF}$ : 0.0/0

Out: -993.674+/-729.766  $\chi^2/\text{NDF}$ : 0.6/1

All: -192.569+/-633.210  $\chi^2/\text{NDF}$ : 5.5/2

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: 884.406+/-0.516  $\chi^2/\text{NDF}$ :95152.7/1

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

Left In: 1135.812+/-0.901  $\chi^2/\text{NDF}$ :0.0/0

Left: 946.532+/-0.448  $\chi^2/\text{NDF}$ : 153808.8/2

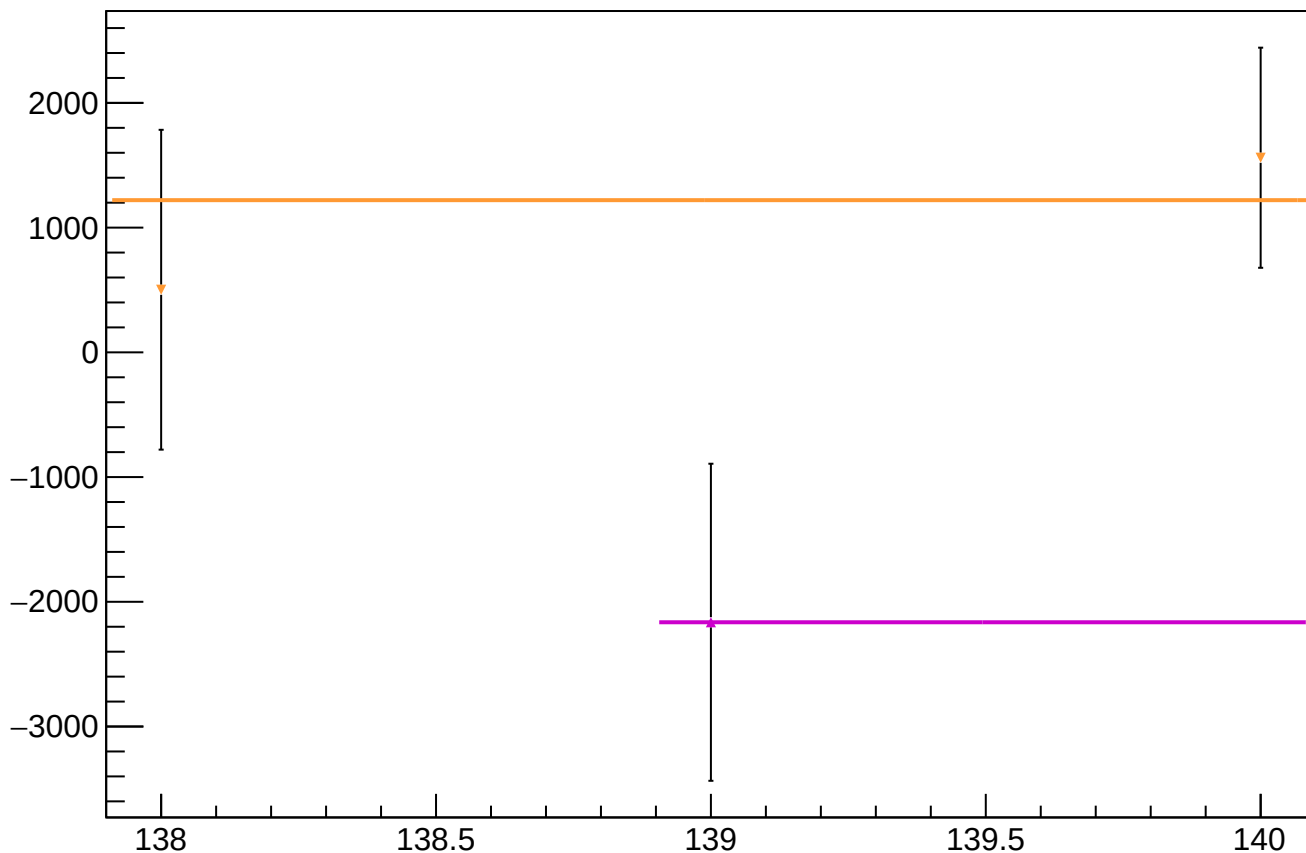
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1135.812+/-0.901  $\chi^2/\text{NDF}$ :0.0/0

Out: 884.406+/-0.516  $\chi^2/\text{NDF}$ :95152.7/1

All: 946.532+/-0.448  $\chi^2/\text{NDF}$ : 153808.8/2

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1220.164+/-726.882  $\chi^2/\text{NDF}$ : 0.5/1

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

Left In: -2164.108+/-1271.075  $\chi^2/\text{NDF}$ : 0.0/0

Left: 386.155+/-630.992  $\chi^2/\text{NDF}$ : 5.8/2

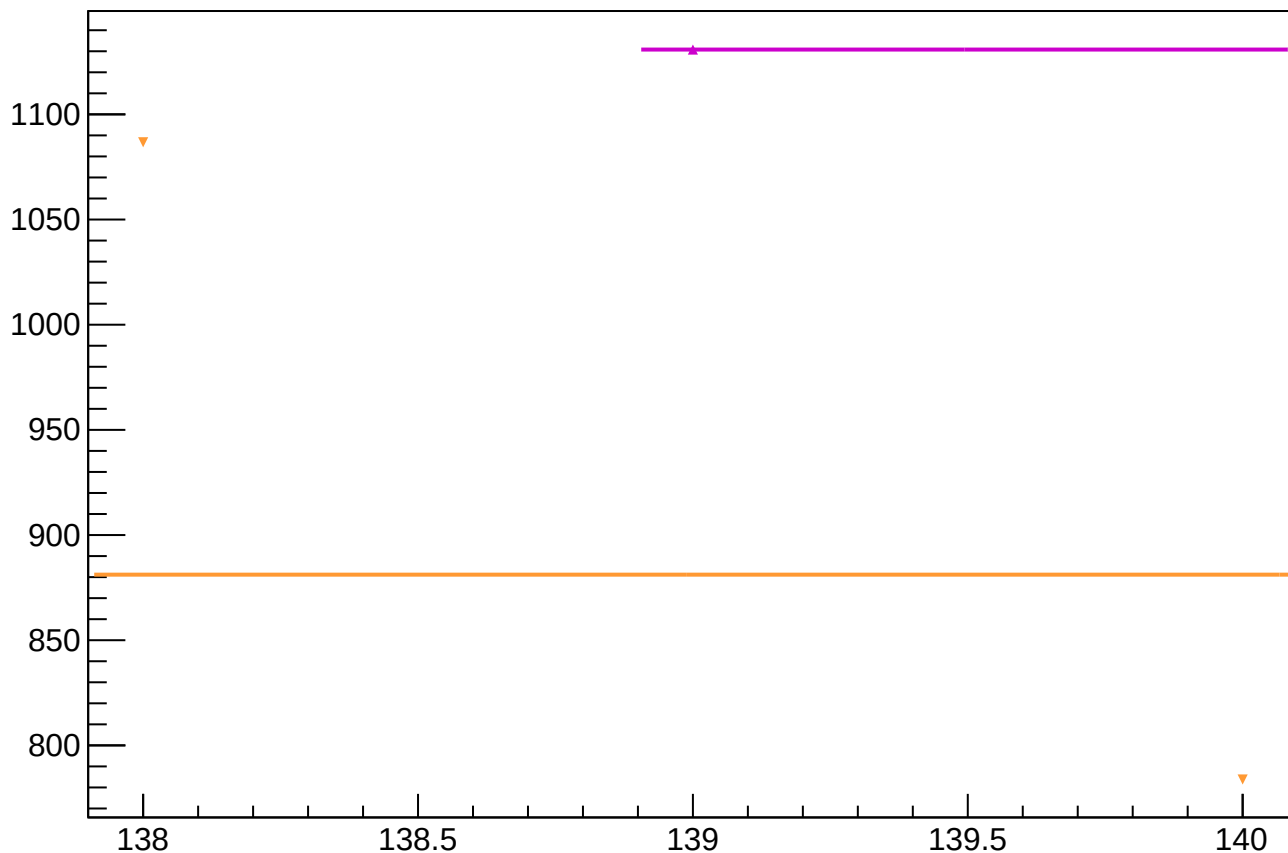
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2164.108+/-1271.075  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1220.164+/-726.882  $\chi^2/\text{NDF}$ : 0.5/1

All: 386.155+/-630.992  $\chi^2/\text{NDF}$ : 5.8/2

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 881.171+/-0.514  $\chi^2/\text{NDF}$ : 75773.9/1

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

Left In: 1130.809+/-0.899  $\chi^2/\text{NDF}$ : 0.0/0

Left: 942.691+/-0.446  $\chi^2/\text{NDF}$ : 133907.9/2

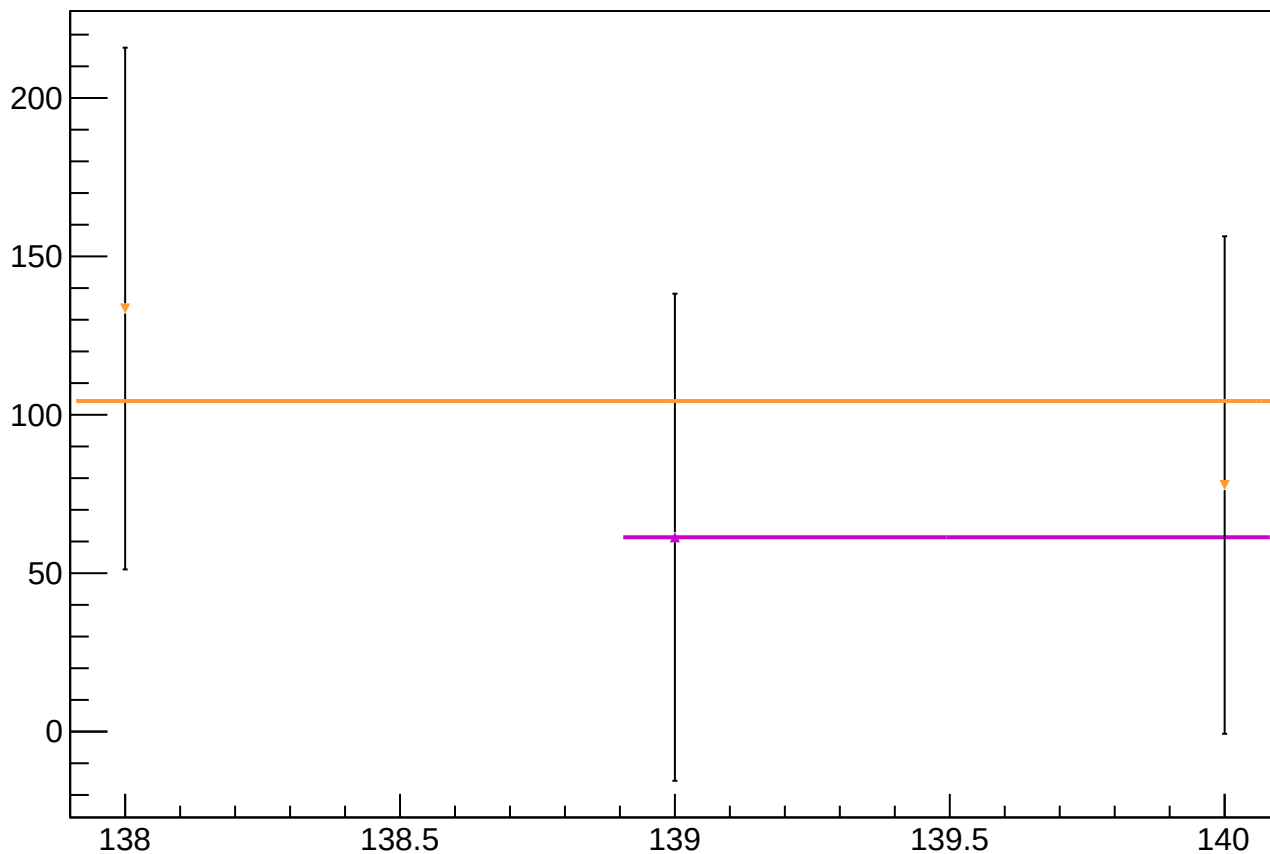
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1130.809+/-0.899  $\chi^2/\text{NDF}$ : 0.0/0

Out: 881.171+/-0.514  $\chi^2/\text{NDF}$ : 75773.9/1

All: 942.691+/-0.446  $\chi^2/\text{NDF}$ : 133907.9/2

dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 104.357+/-56.826  $\chi^2/\text{NDF}$ : 0.2/1

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

Left In: 61.344+/-76.877  $\chi^2/\text{NDF}$ : 0.0/0

Left: 89.159+/-45.697  $\chi^2/\text{NDF}$ : 0.4/2

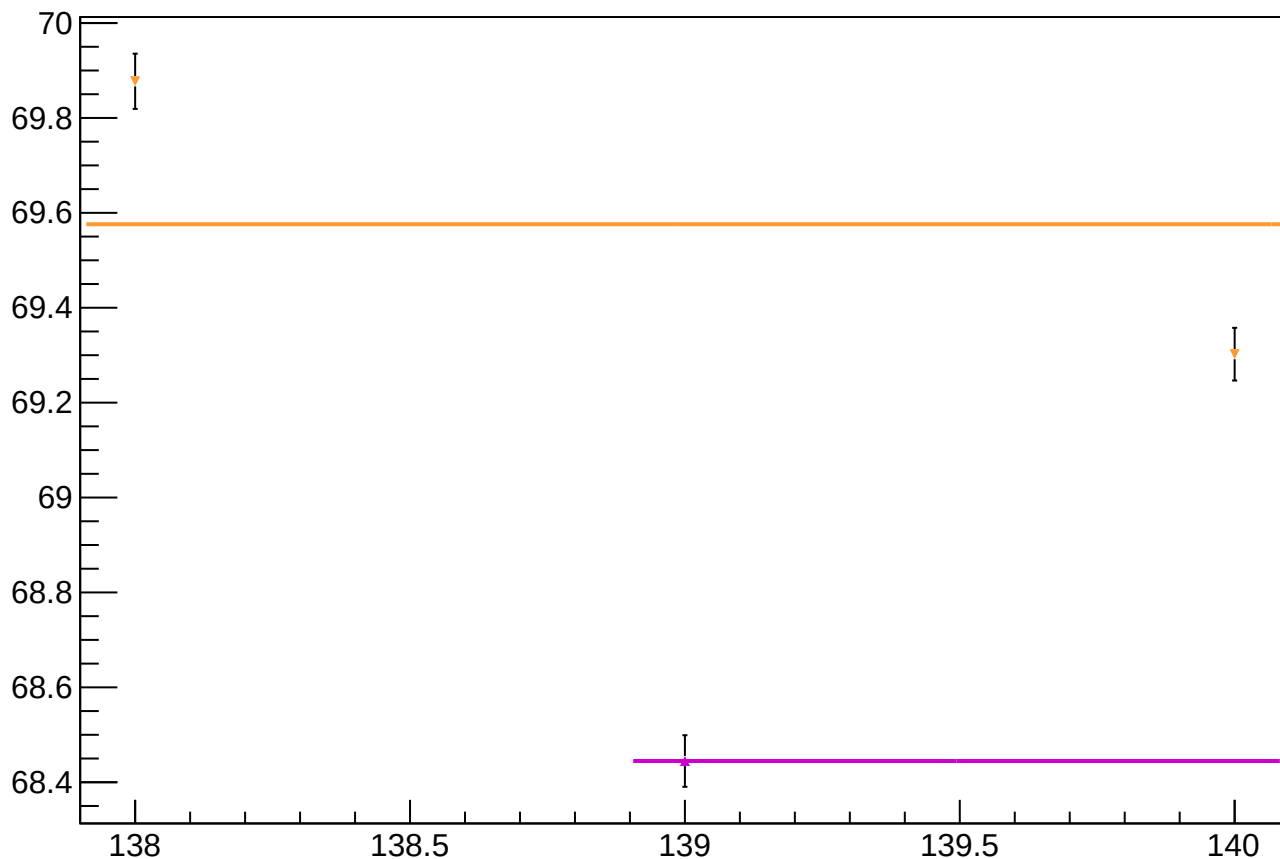
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 61.344+/-76.877  $\chi^2/\text{NDF}$ : 0.0/0

Out: 104.357+/-56.826  $\chi^2/\text{NDF}$ : 0.2/1

All: 89.159+/-45.697  $\chi^2/\text{NDF}$ : 0.4/2

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: 69.576+/-0.040  $\chi^2/\text{NDF}$ : 51.1/1

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

Left In: 68.445+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left: 69.176+/-0.032  $\chi^2/\text{NDF}$ : 331.1/2

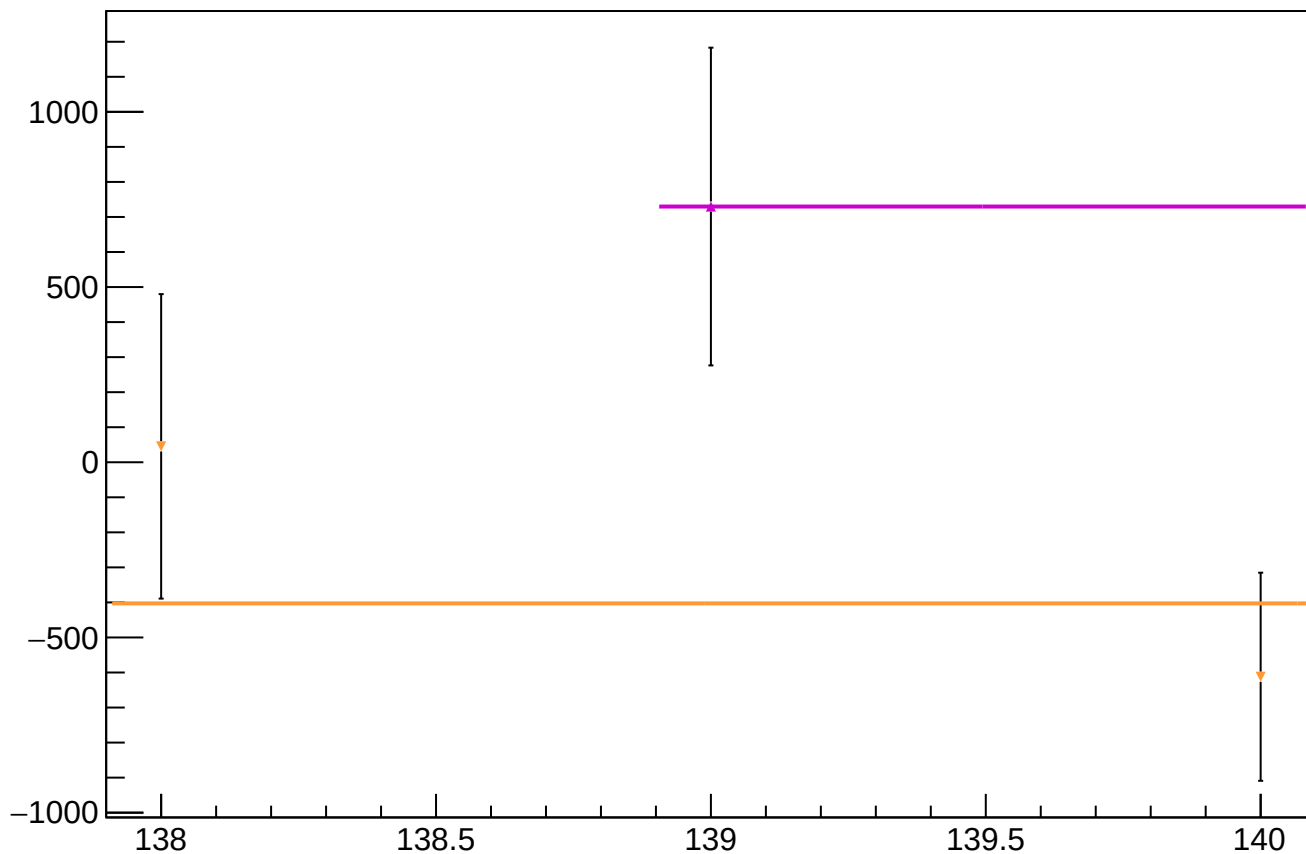
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 68.445+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 69.576+/-0.040  $\chi^2/\text{NDF}$ : 51.1/1

All: 69.176+/-0.032  $\chi^2/\text{NDF}$ : 331.1/2

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: -402.770+/-245.161  $\chi^2/\text{NDF}$ : 1.6/1

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

Left In: 729.752+/-453.398  $\chi^2/\text{NDF}$ : 0.0/0

Left: -146.558+/-215.654  $\chi^2/\text{NDF}$ : 6.4/2

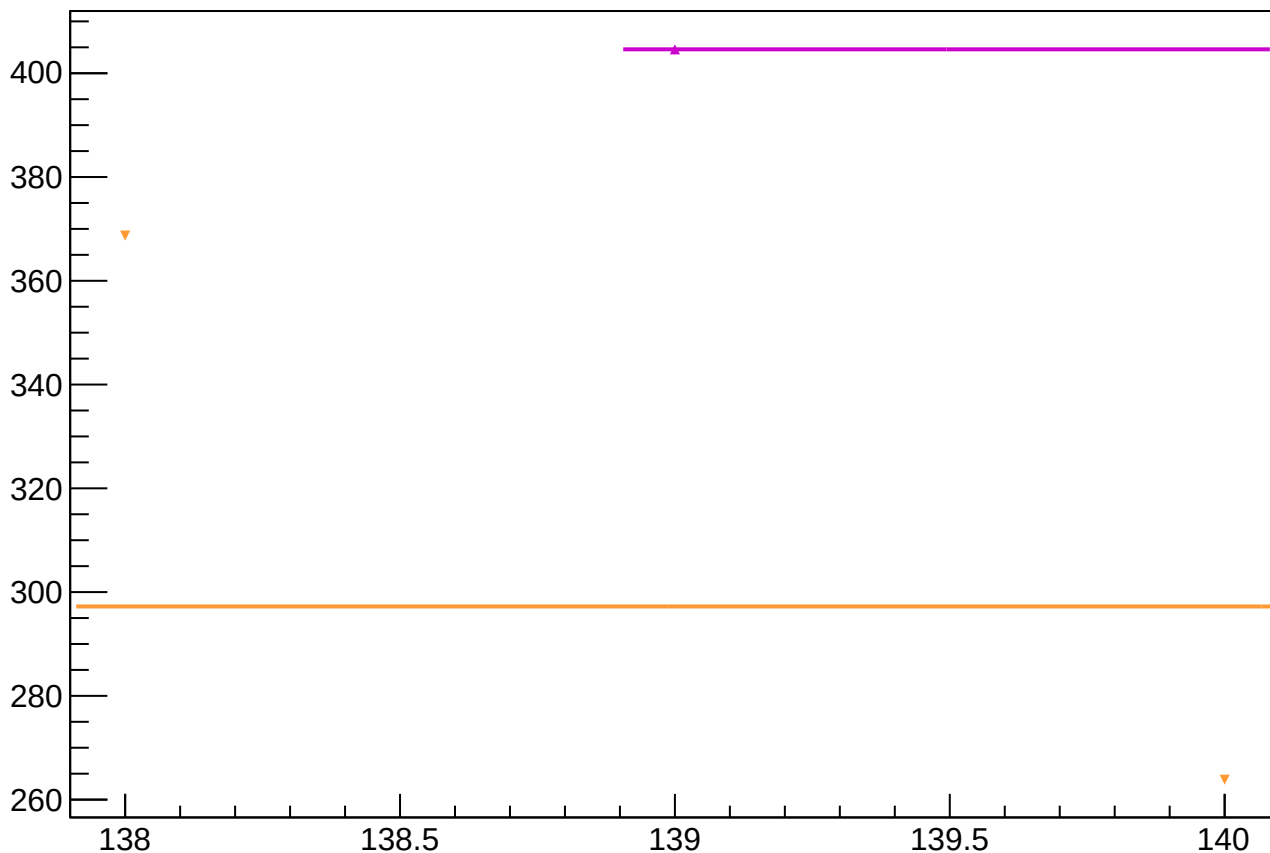
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 729.752+/-453.398  $\chi^2/\text{NDF}$ : 0.0/0

Out: -402.770+/-245.161  $\chi^2/\text{NDF}$ : 1.6/1

All: -146.558+/-215.654  $\chi^2/\text{NDF}$ : 6.4/2

asym\_sam\_1526\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 297.231+/-0.173  $\chi^2/\text{NDF}$ : 79429.8/1

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

Left In: 404.611+/-0.321  $\chi^2/\text{NDF}$ : 0.0/0

Left: 321.524+/-0.152  $\chi^2/\text{NDF}$ : 166231.3/2

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

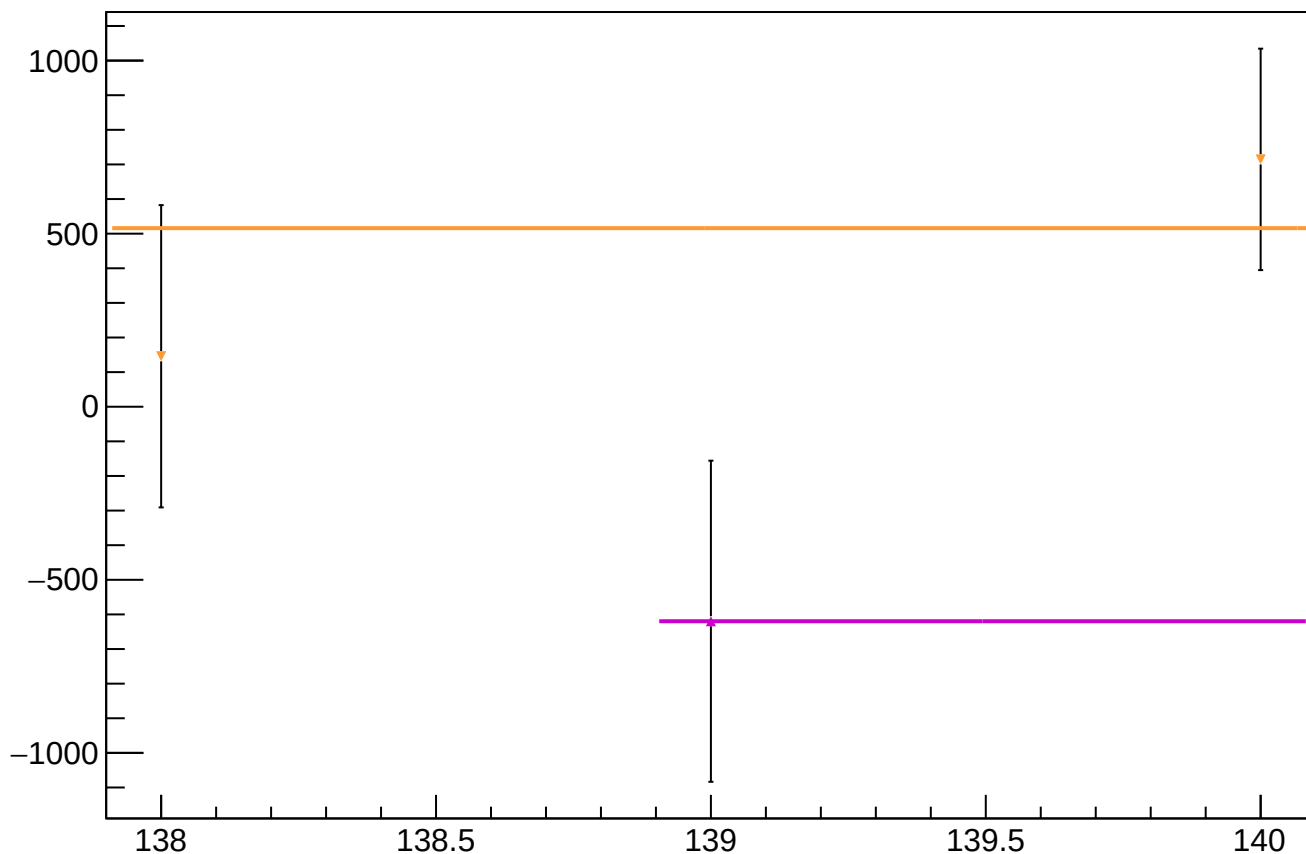
In: 404.611+/-0.321  $\chi^2/\text{NDF}$ : 0.0/0

Out: 297.231+/-0.173  $\chi^2/\text{NDF}$ : 79429.8/1

All: 321.524+/-0.152  $\chi^2/\text{NDF}$ : 166231.3/2



asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 515.964+/-258.045  $\chi^2/\text{NDF}$ :1.1/1

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

Left In: -619.697+/-463.863  $\chi^2/\text{NDF}$ :0.0/0

Left: 247.573+/-225.501  $\chi^2/\text{NDF}$ : 5.7/2

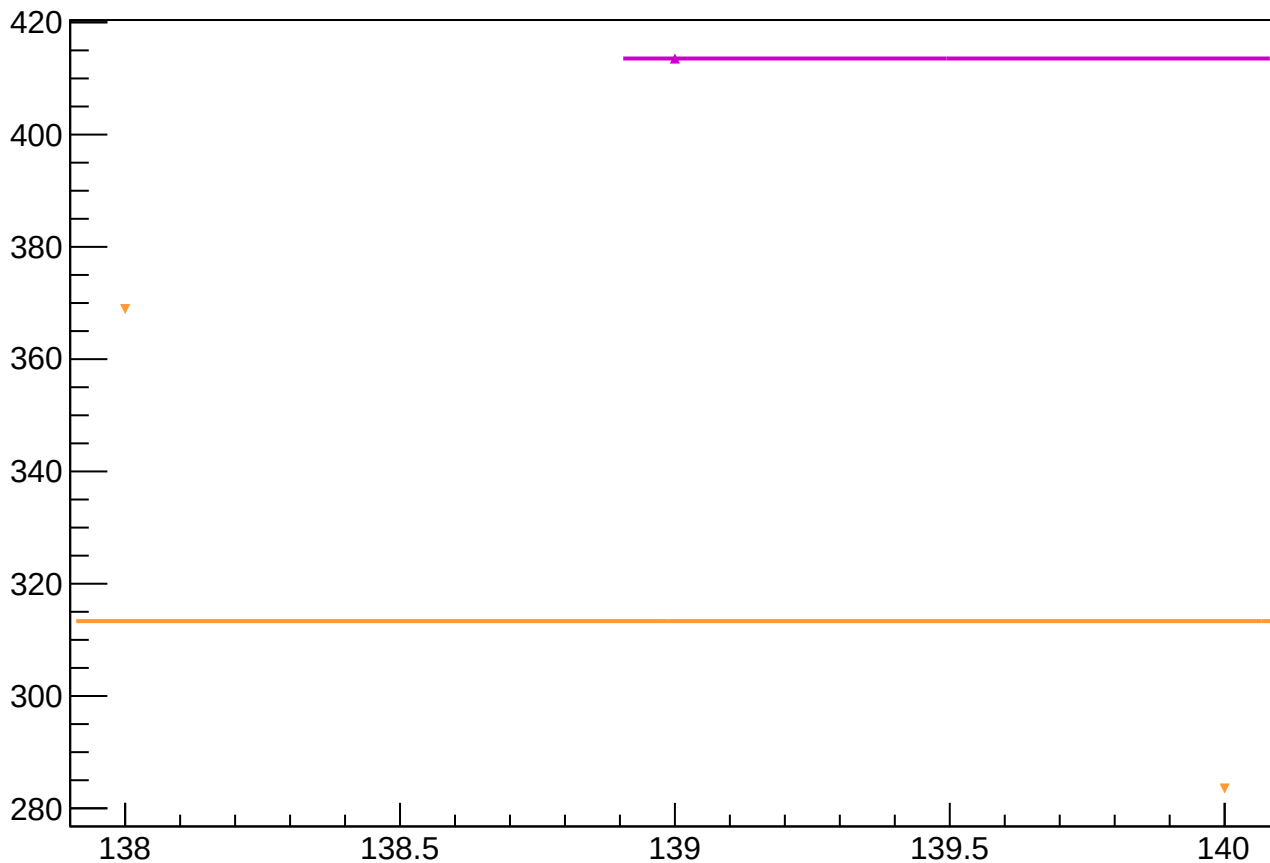
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -619.697+/-463.863  $\chi^2/\text{NDF}$ :0.0/0

Out: 515.964+/-258.045  $\chi^2/\text{NDF}$ :1.1/1

All: 247.573+/-225.501  $\chi^2/\text{NDF}$ : 5.7/2

# asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 313.343+/-0.182  $\chi^2/\text{NDF}$ : 49780.0/1

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

Left In: 413.551+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Left: 337.025+/-0.159  $\chi^2/\text{NDF}$ : 121058.7/2

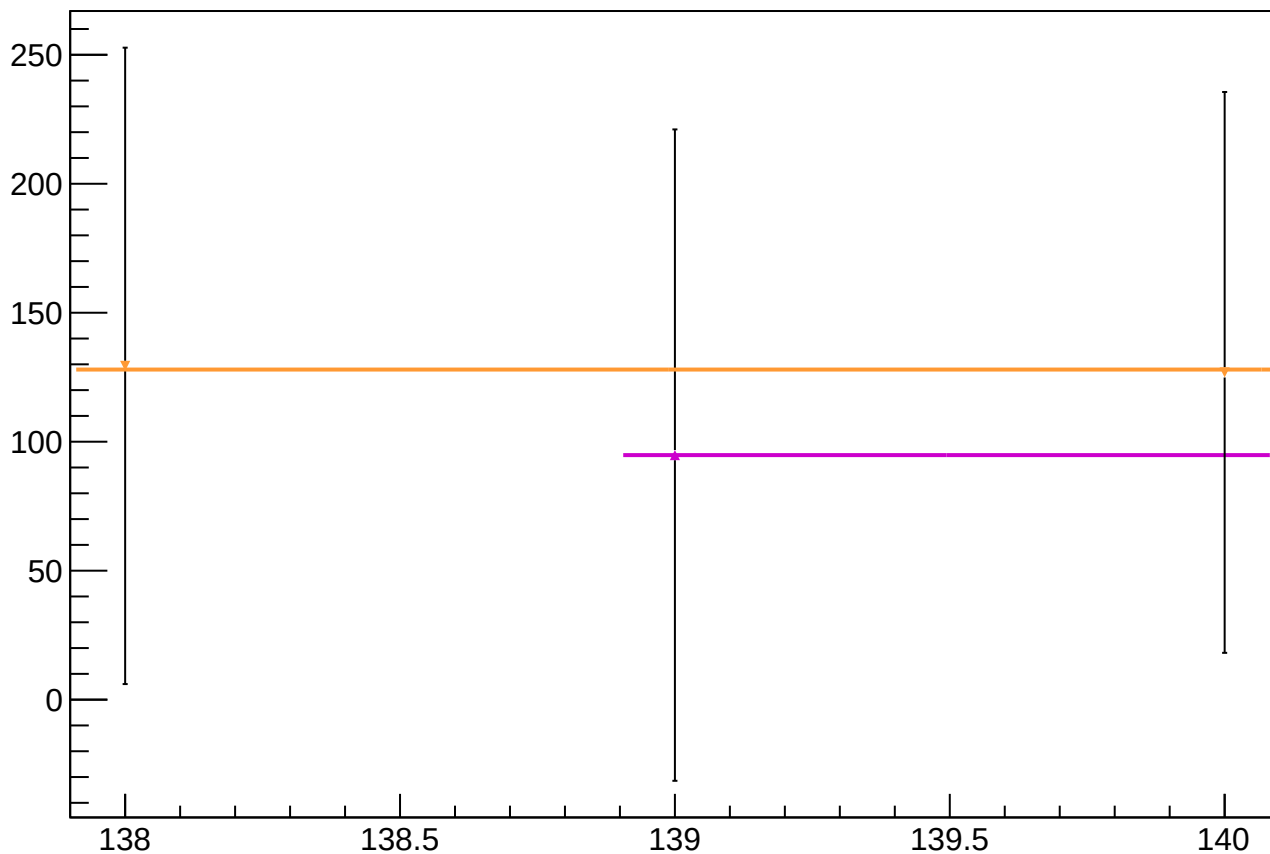
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 413.551+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Out: 313.343+/-0.182  $\chi^2/\text{NDF}$ : 49780.0/1

All: 337.025+/-0.159  $\chi^2/\text{NDF}$ : 121058.7/2

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 127.974+/-81.562  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: 94.806+/-126.264  $\chi^2/\text{NDF}$ : 0.0/0

Left: 118.209+/-68.511  $\chi^2/\text{NDF}$ : 0.0/2

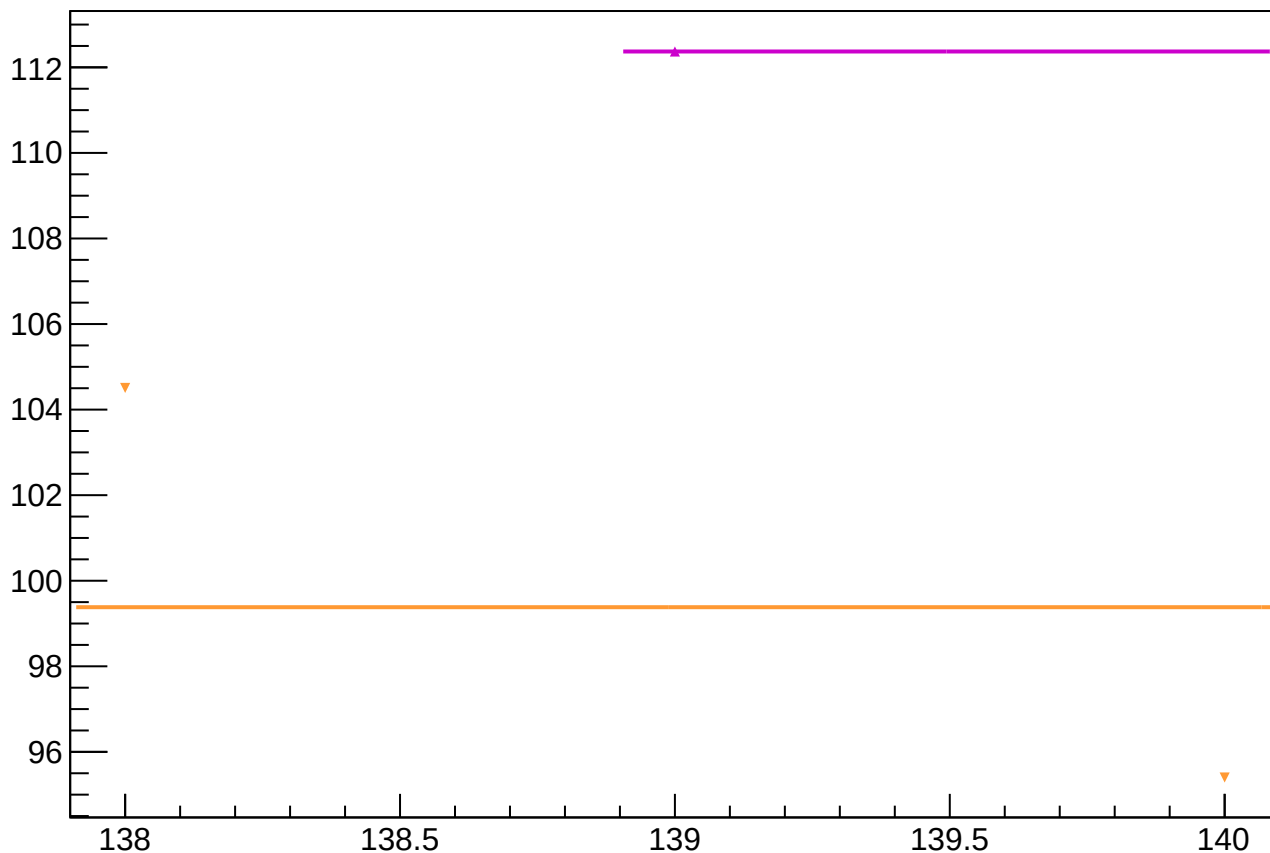
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 94.806+/-126.264  $\chi^2/\text{NDF}$ : 0.0/0

Out: 127.974+/-81.562  $\chi^2/\text{NDF}$ : 0.0/1

All: 118.209+/-68.511  $\chi^2/\text{NDF}$ : 0.0/2

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: 99.381+/-0.058  $\chi^2/\text{NDF}$ : 6133.9/1

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

Left In: 112.371+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Left: 103.206+/-0.048  $\chi^2/\text{NDF}$ : 21068.2/2

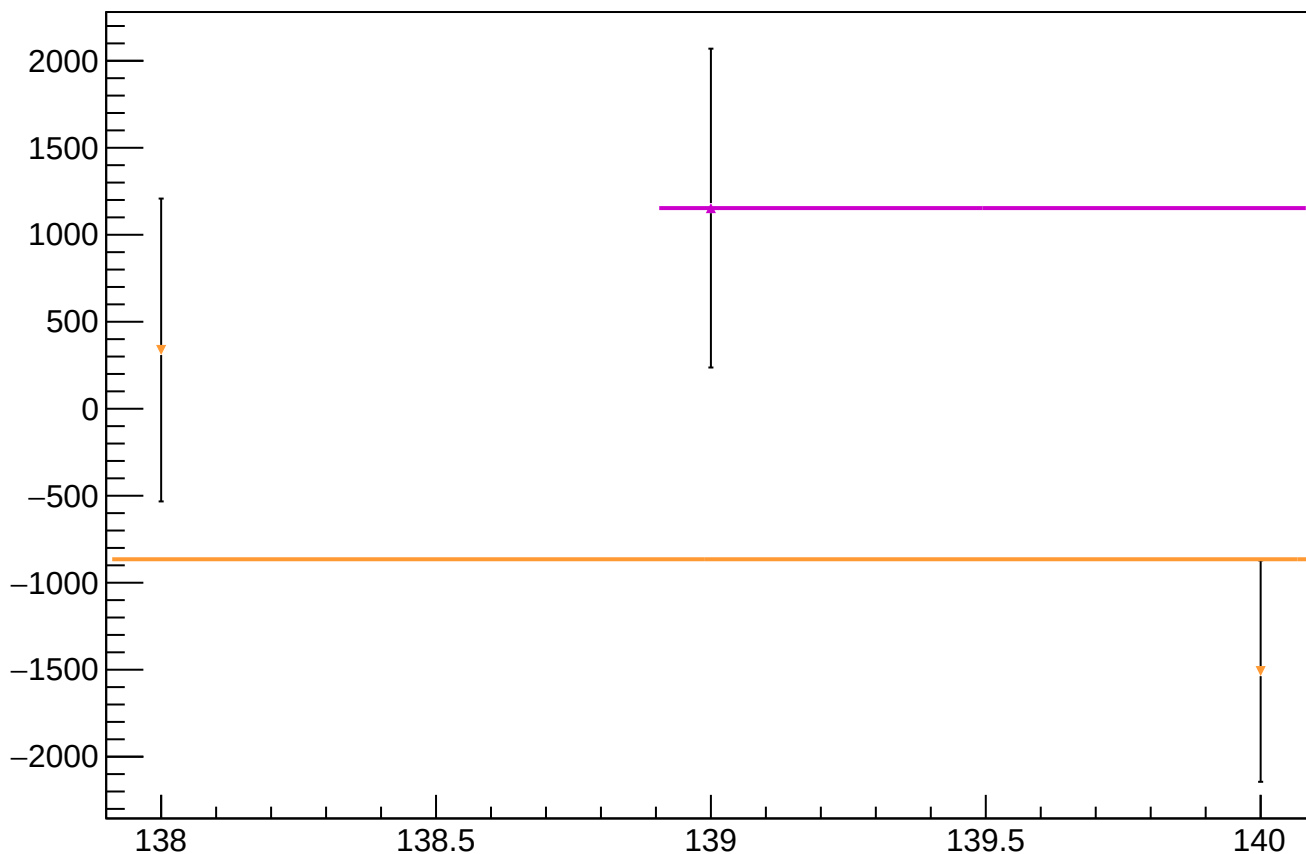
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 112.371+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Out: 99.381+/-0.058  $\chi^2/\text{NDF}$ : 6133.9/1

All: 103.206+/-0.048  $\chi^2/\text{NDF}$ : 21068.2/2

asym\_sam\_3726\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -865.115+/-513.675  $\chi^2/\text{NDF}$ : 2.9/1

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

Left In: 1153.354+/-916.328  $\chi^2/\text{NDF}$ : 0.0/0

Left: -382.480+/-448.074  $\chi^2/\text{NDF}$ : 6.6/2

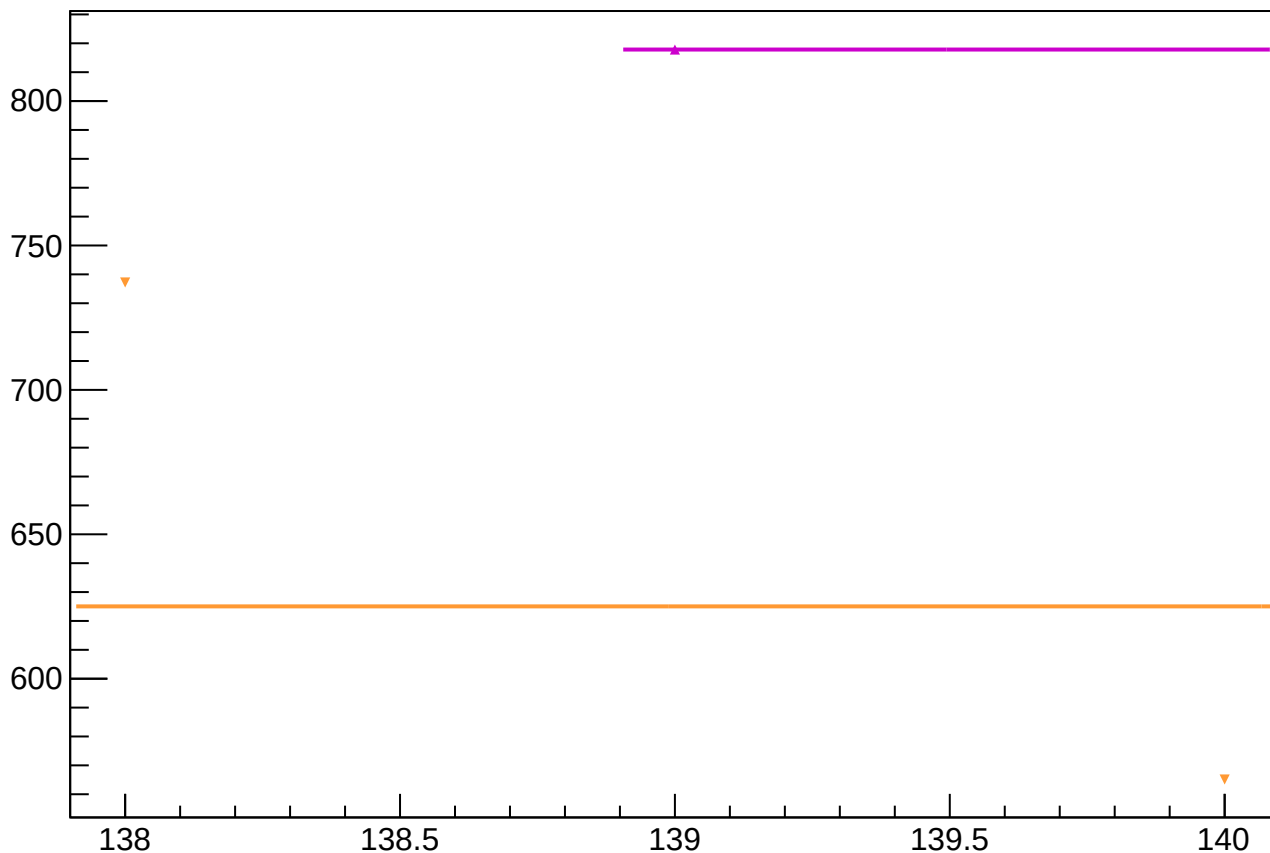
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1153.354+/-916.328  $\chi^2/\text{NDF}$ : 0.0/0

Out: -865.115+/-513.675  $\chi^2/\text{NDF}$ : 2.9/1

All: -382.480+/-448.074  $\chi^2/\text{NDF}$ : 6.6/2

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: 625.043+/-0.363  $\chi^2/\text{NDF}$ : 50951.1/1

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

Left In: 817.841+/-0.648  $\chi^2/\text{NDF}$ : 0.0/0

Left: 671.143+/-0.317  $\chi^2/\text{NDF}$ : 118319.4/2

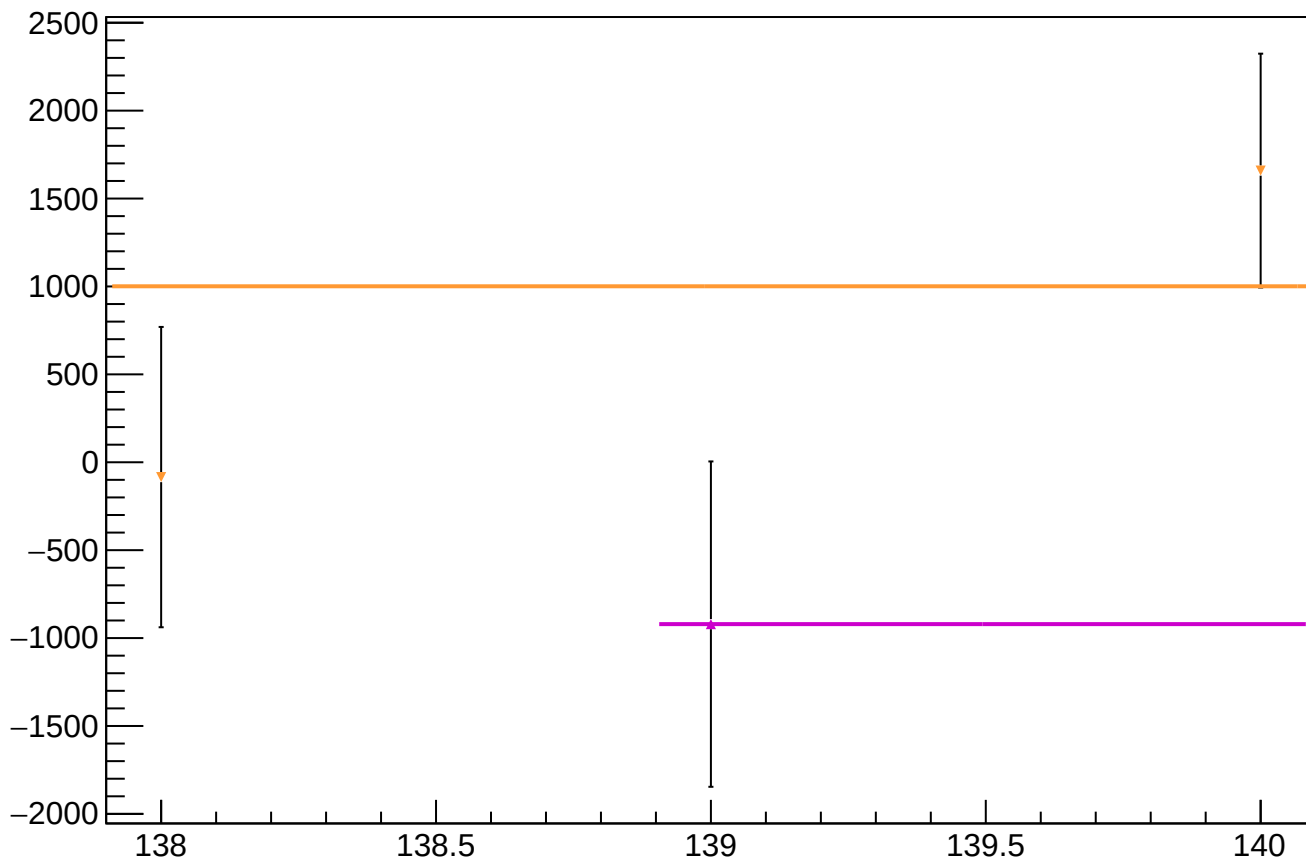
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 817.841+/-0.648  $\chi^2/\text{NDF}$ : 0.0/0

Out: 625.043+/-0.363  $\chi^2/\text{NDF}$ : 50951.1/1

All: 671.143+/-0.317  $\chi^2/\text{NDF}$ : 118319.4/2

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1000.932+/-524.736  $\chi^2/\text{NDF}$ : 2.6/1

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

Left In: -920.624+/-925.308  $\chi^2/\text{NDF}$ : 0.0/0

Left: 533.344+/-456.448  $\chi^2/\text{NDF}$ : 5.9/2

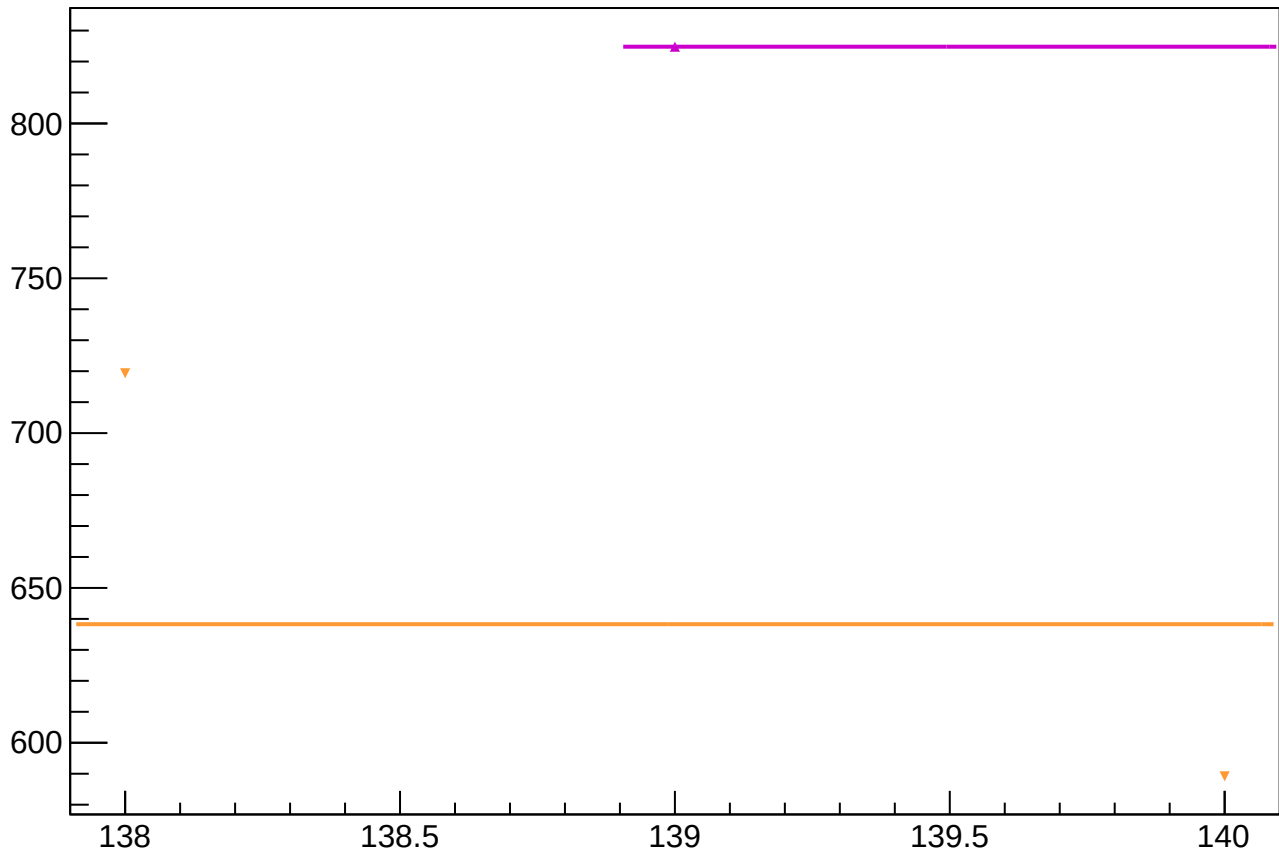
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -920.624+/-925.308  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1000.932+/-524.736  $\chi^2/\text{NDF}$ : 2.6/1

All: 533.344+/-456.448  $\chi^2/\text{NDF}$ : 5.9/2

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 638.287+/-0.371  $\chi^2/\text{NDF}$ :28918.9/1

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

Left In: 824.793+/-0.654  $\chi^2/\text{NDF}$ :0.0/0

Left: 683.671+/-0.323  $\chi^2/\text{NDF}$ : 90400.5/2

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

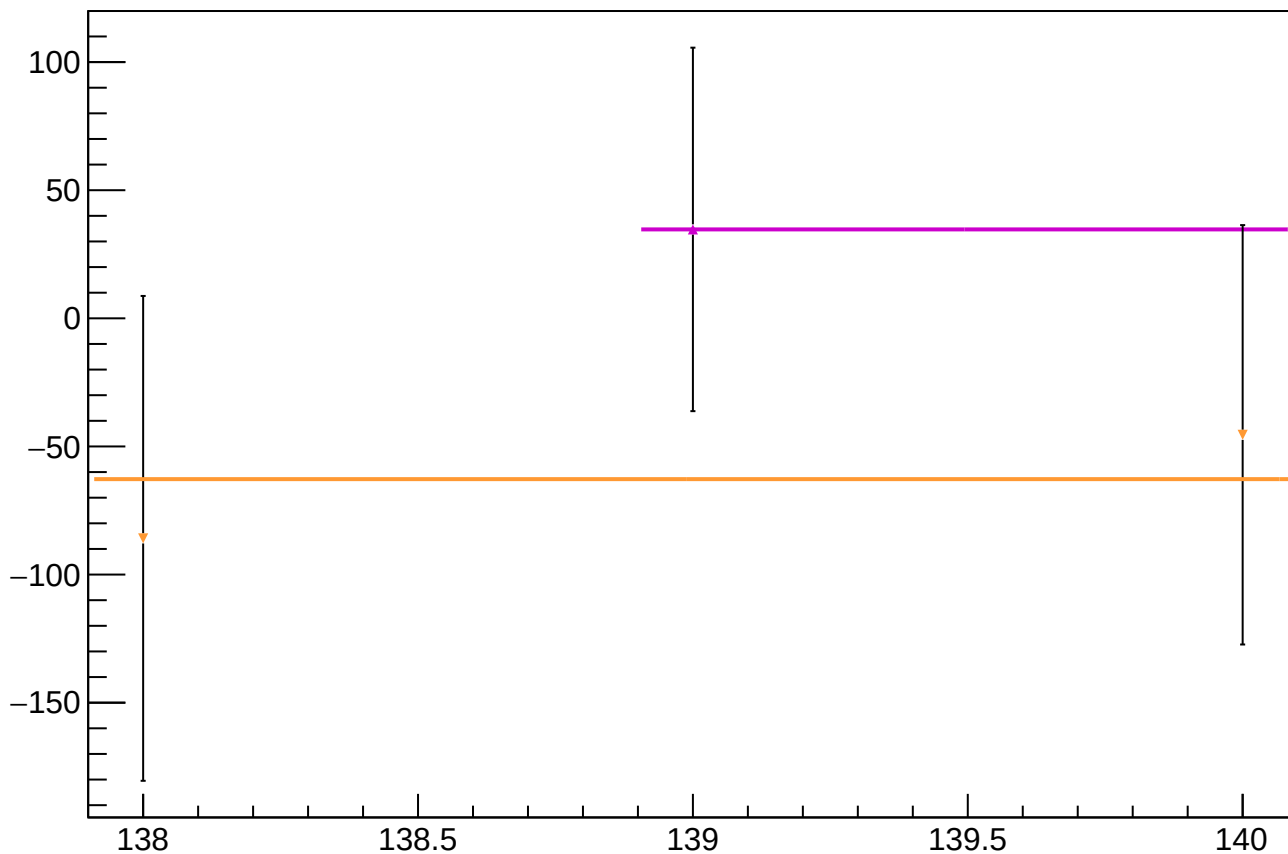
In: 824.793+/-0.654  $\chi^2/\text{NDF}$ :0.0/0

Out: 638.287+/-0.371  $\chi^2/\text{NDF}$ :28918.9/1

All: 683.671+/-0.323  $\chi^2/\text{NDF}$ : 90400.5/2



dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -62.755+/-61.893  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: 34.702+/-70.926  $\chi^2/\text{NDF}$ : 0.0/0

Left: -20.624+/-46.634  $\chi^2/\text{NDF}$ : 1.2/2

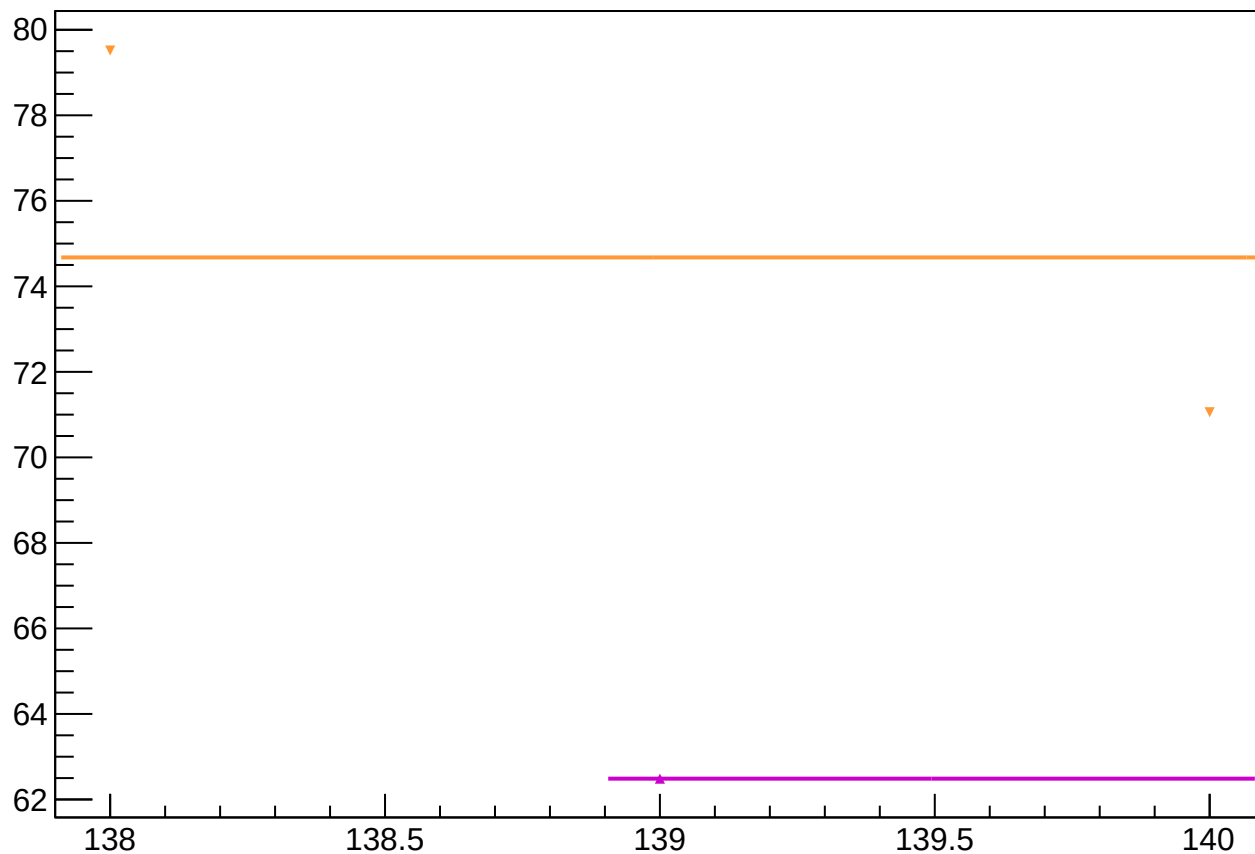
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 34.702+/-70.926  $\chi^2/\text{NDF}$ : 0.0/0

Out: -62.755+/-61.893  $\chi^2/\text{NDF}$ : 0.1/1

All: -20.624+/-46.634  $\chi^2/\text{NDF}$ : 1.2/2

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: 74.676+/-0.044  $\chi^2/\text{NDF}$ : 9146.8/1

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

Left In: 62.487+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left: 69.407+/-0.033  $\chi^2/\text{NDF}$ : 42682.0/2

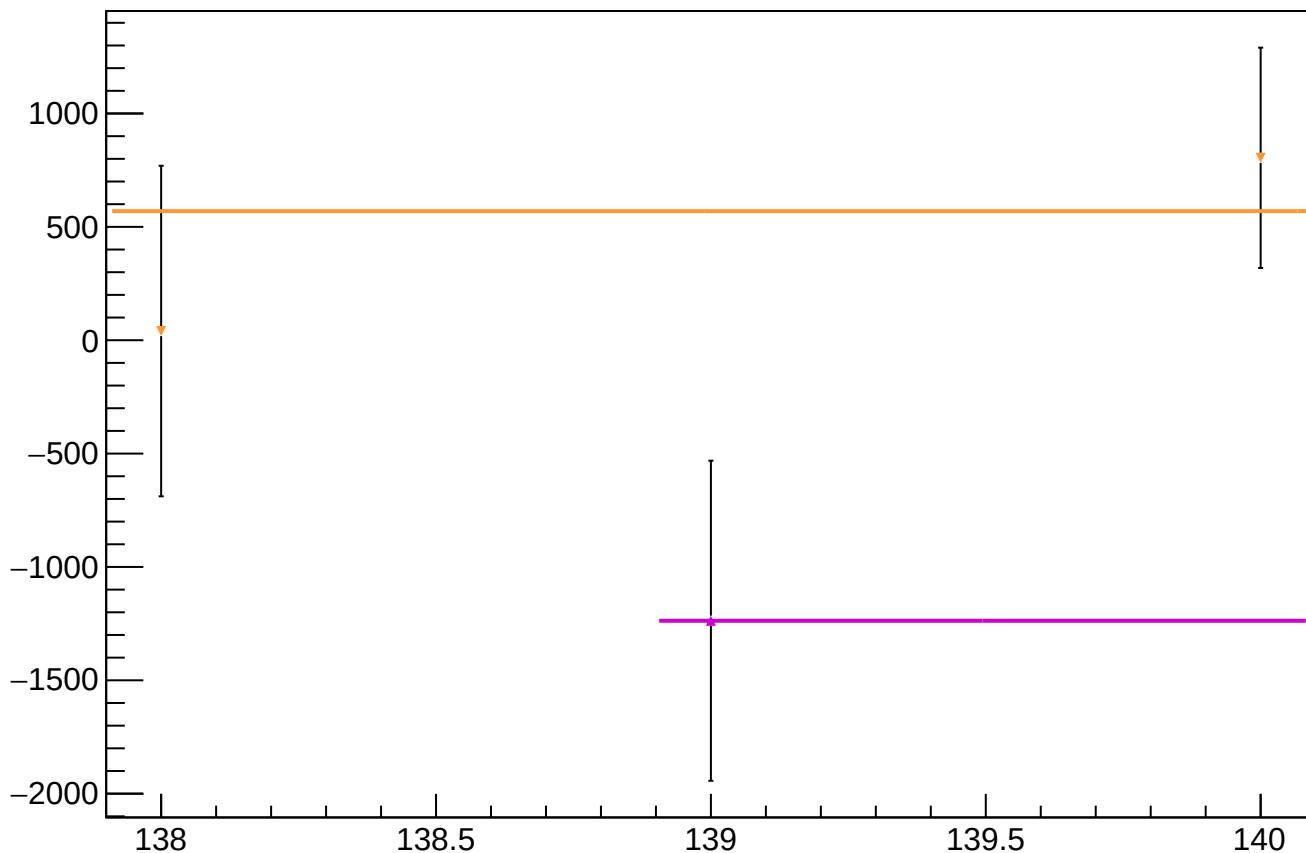
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 62.487+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 74.676+/-0.044  $\chi^2/\text{NDF}$ : 9146.8/1

All: 69.407+/-0.033  $\chi^2/\text{NDF}$ : 42682.0/2

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: 569.486+/-404.294  $\chi^2/\text{NDF}$ : 0.8/1

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

Left In: -1237.337+/-705.899  $\chi^2/\text{NDF}$ : 0.0/0

Left: 123.195+/-350.828  $\chi^2/\text{NDF}$ : 5.7/2

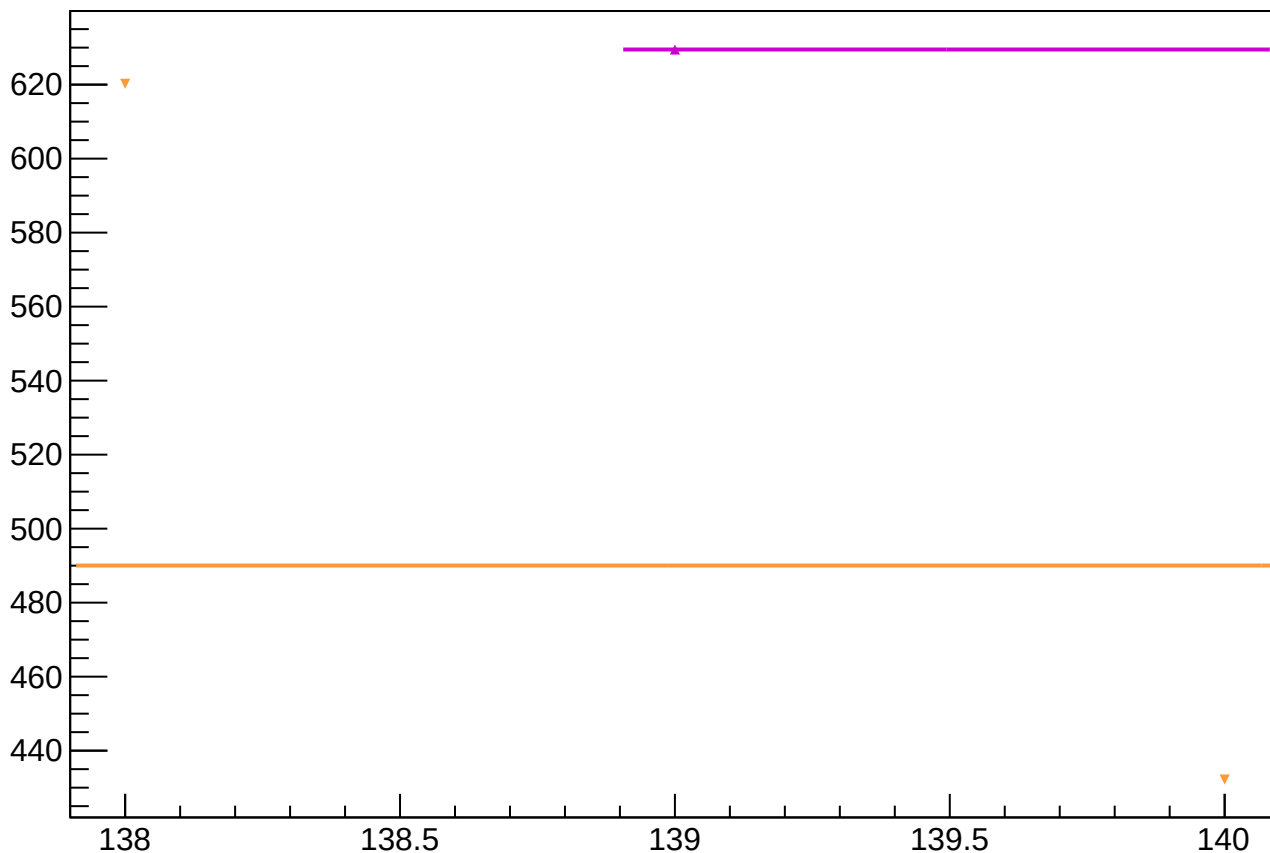
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1237.337+/-705.899  $\chi^2/\text{NDF}$ : 0.0/0

Out: 569.486+/-404.294  $\chi^2/\text{NDF}$ : 0.8/1

All: 123.195+/-350.828  $\chi^2/\text{NDF}$ : 5.7/2

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: 490.033+/-0.286  $\chi^2/\text{NDF}$ : 92135.2/1

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

Left In: 629.488+/-0.499  $\chi^2/\text{NDF}$ : 0.0/0

Left: 524.479+/-0.248  $\chi^2/\text{NDF}$ : 150911.6/2

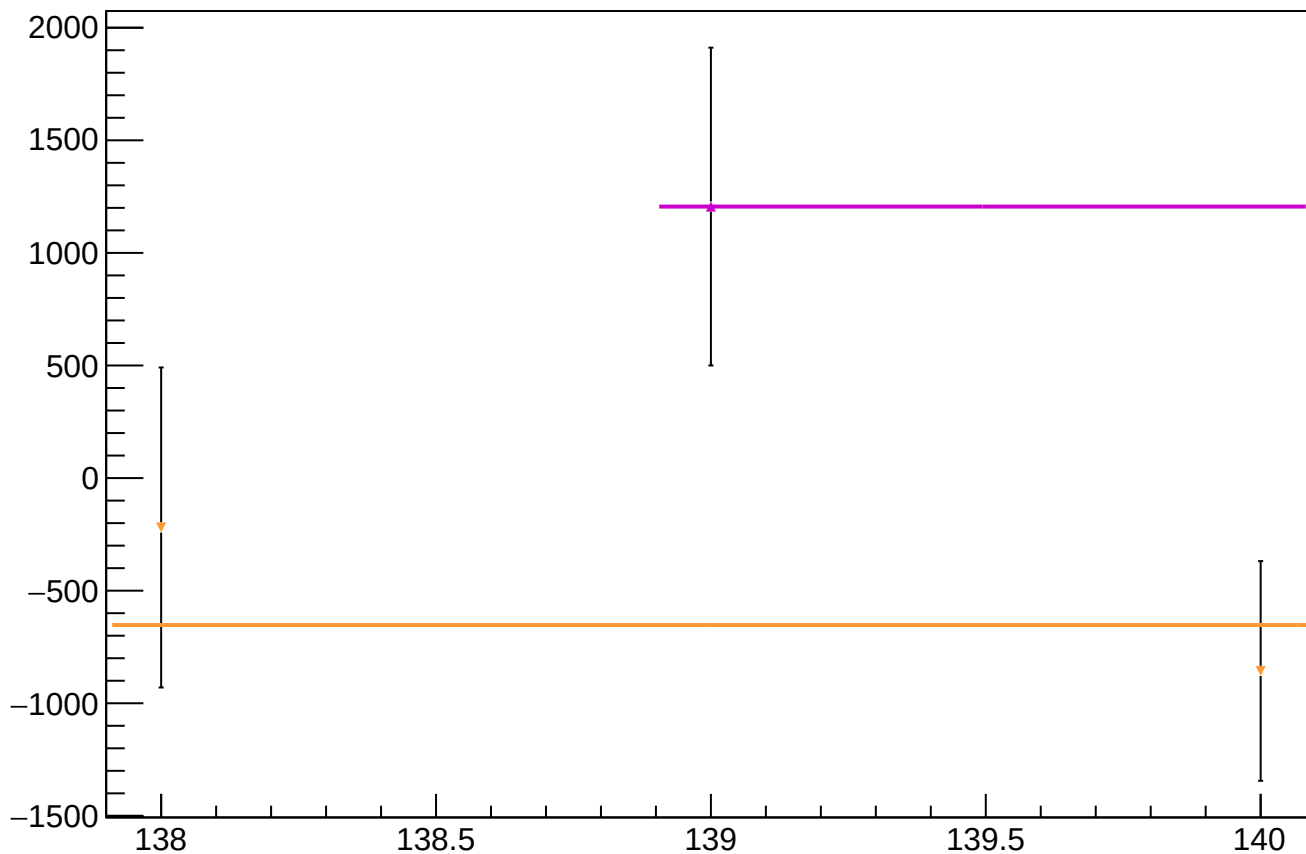
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 629.488+/-0.499  $\chi^2/\text{NDF}$ : 0.0/0

Out: 490.033+/-0.286  $\chi^2/\text{NDF}$ : 92135.2/1

All: 524.479+/-0.248  $\chi^2/\text{NDF}$ : 150911.6/2

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: -652.407 $\pm$ 402.161  $\chi^2$ /NDF: 0.5/1

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

Left In: 1205.778 $\pm$ 705.627  $\chi^2$ /NDF: 0.0/0

Left: -196.812 $\pm$ 349.398  $\chi^2$ /NDF: 5.8/2

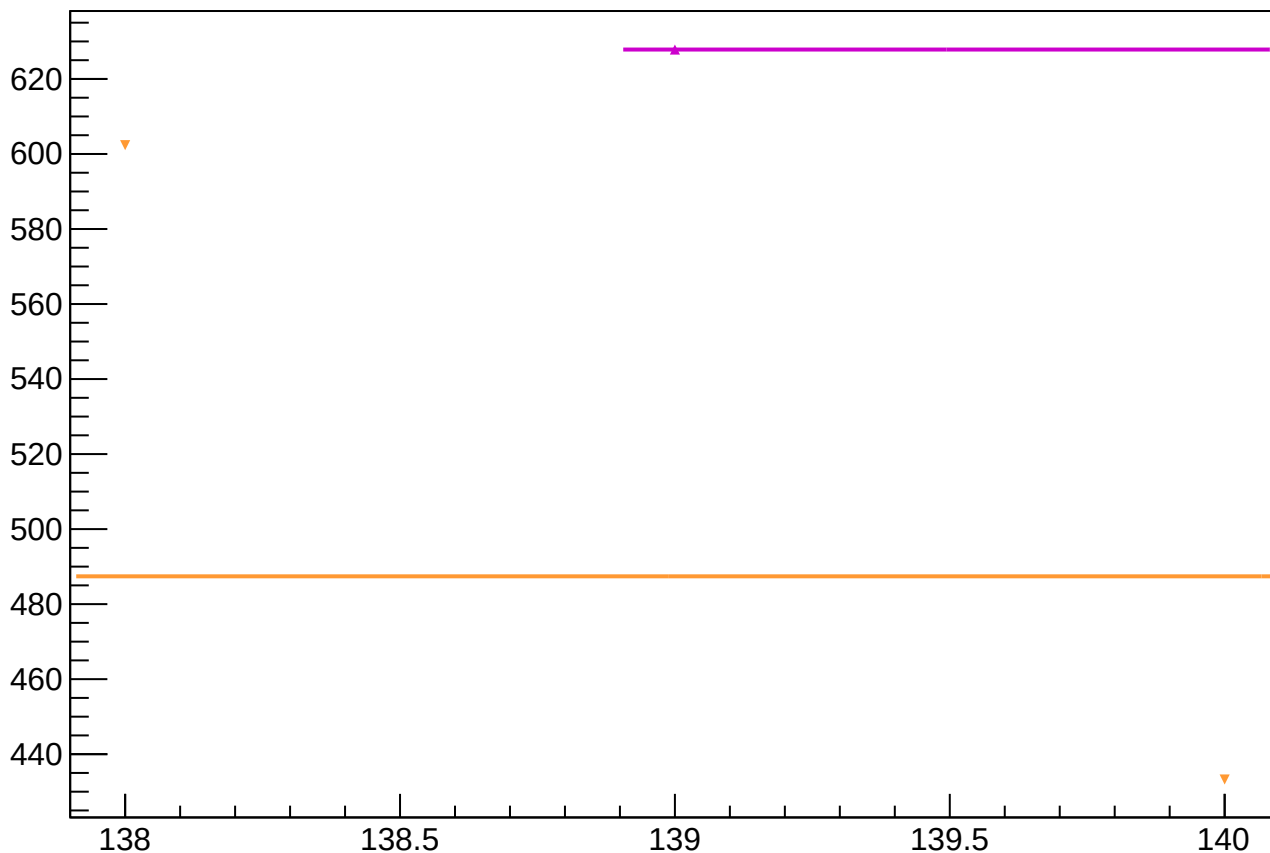
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 1205.778 $\pm$ 705.627  $\chi^2$ /NDF: 0.0/0

Out: -652.407 $\pm$ 402.161  $\chi^2$ /NDF: 0.5/1

All: -196.812 $\pm$ 349.398  $\chi^2$ /NDF: 5.8/2

# 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: 487.412+/-0.284  $\chi^2/\text{NDF}$ : 76982.4/1

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

Left In: 627.841+/-0.499  $\chi^2/\text{NDF}$ : 0.0/0

Left: 521.843+/-0.247  $\chi^2/\text{NDF}$ : 136773.7/2

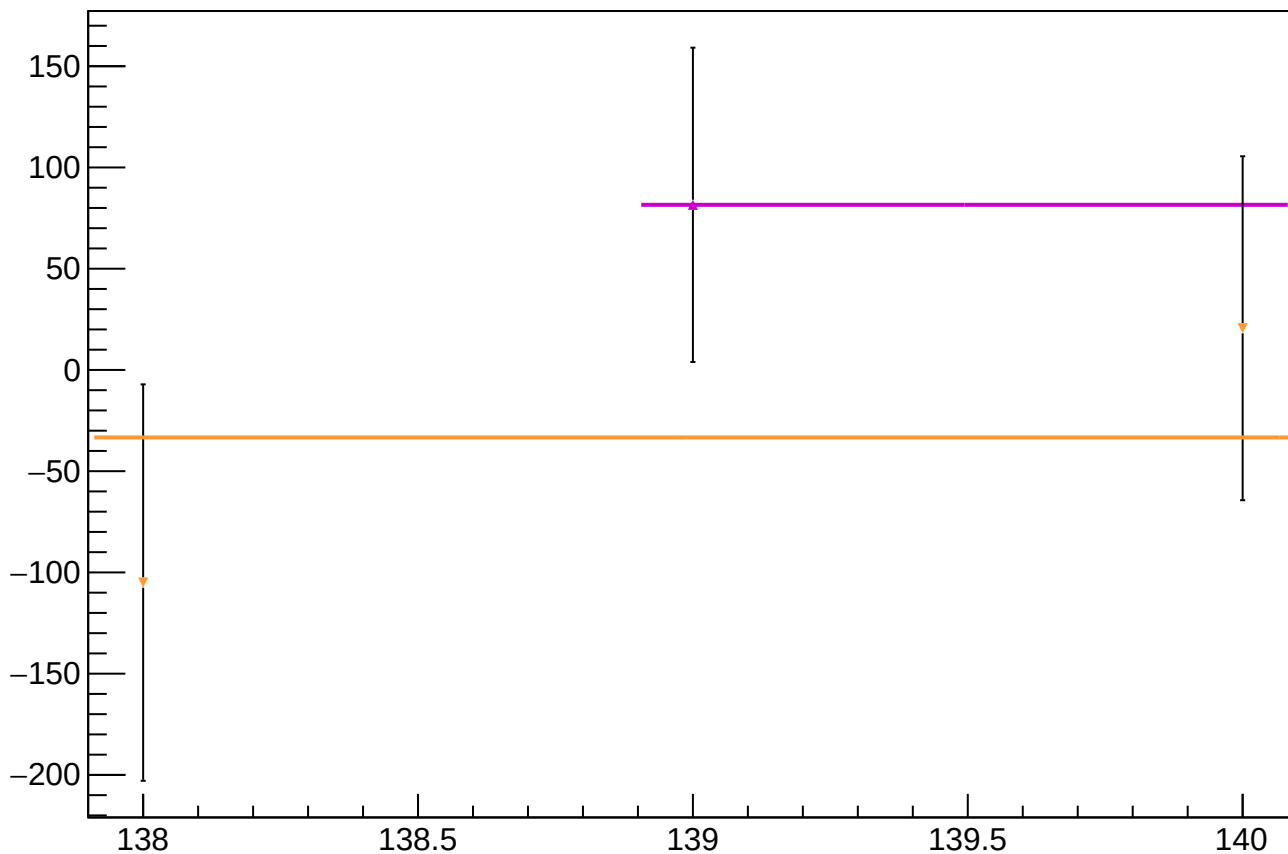
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 627.841+/-0.499  $\chi^2/\text{NDF}$ : 0.0/0

Out: 487.412+/-0.284  $\chi^2/\text{NDF}$ : 76982.4/1

All: 521.843+/-0.247  $\chi^2/\text{NDF}$ : 136773.7/2

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -33.346 $\pm$ 64.153  $\chi^2/\text{NDF}$ : 0.9/1

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

Left In: 81.549 $\pm$ 77.609  $\chi^2/\text{NDF}$ : 0.0/0

Left: 13.293 $\pm$ 49.447  $\chi^2/\text{NDF}$ : 2.2/2

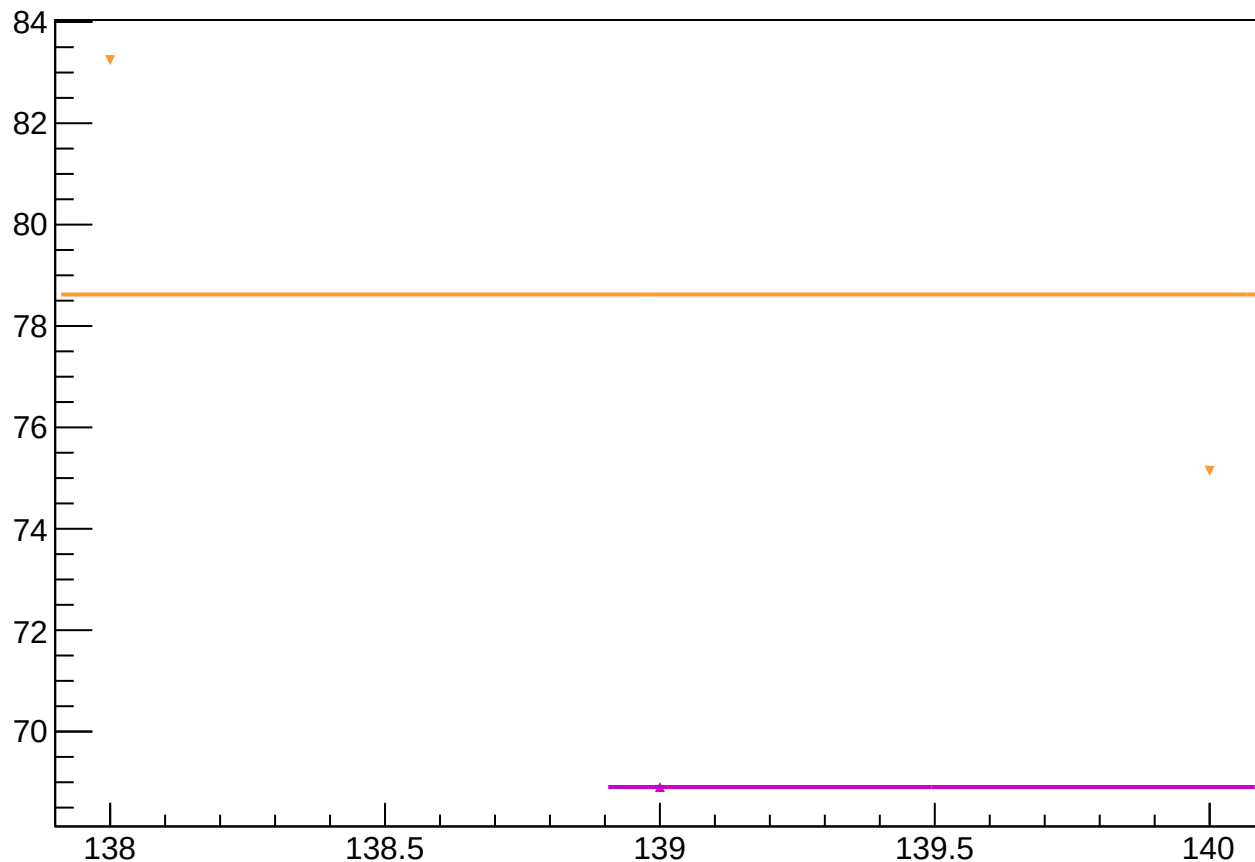
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 81.549 $\pm$ 77.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: -33.346 $\pm$ 64.153  $\chi^2/\text{NDF}$ : 0.9/1

All: 13.293 $\pm$ 49.447  $\chi^2/\text{NDF}$ : 2.2/2

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: 78.622+/-0.045  $\chi^2/\text{NDF}$ : 7814.5/1

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

Left In: 68.906+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Left: 74.678+/-0.035  $\chi^2/\text{NDF}$ : 26435.0/2

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

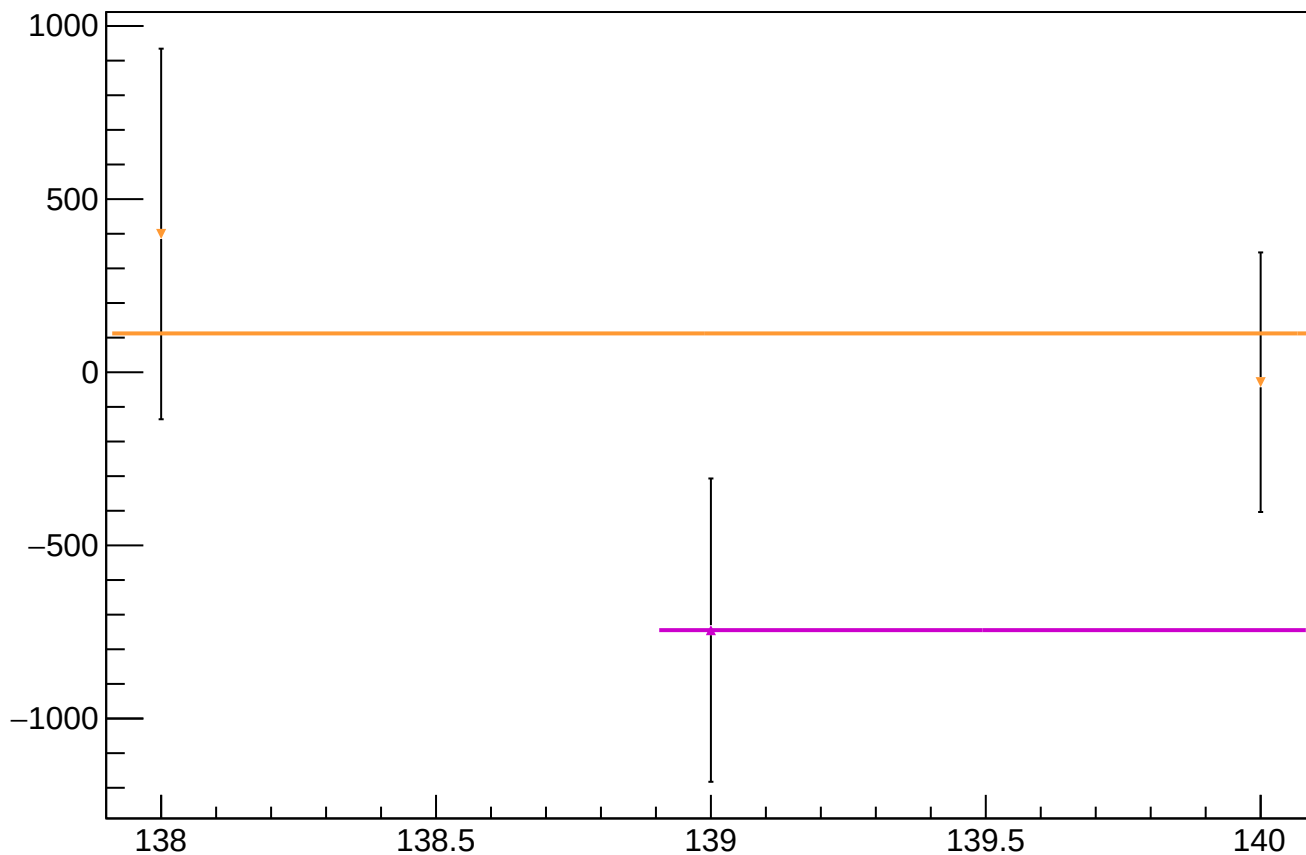
In: 68.906+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 78.622+/-0.045  $\chi^2/\text{NDF}$ : 7814.5/1

All: 74.678+/-0.035  $\chi^2/\text{NDF}$ : 26435.0/2



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: 112.183+/-306.993  $\chi^2/\text{NDF}$ : 0.4/1

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

Left In: -744.718+/-437.991  $\chi^2/\text{NDF}$ : 0.0/0

Left: -170.109+/-251.391  $\chi^2/\text{NDF}$ : 3.0/2

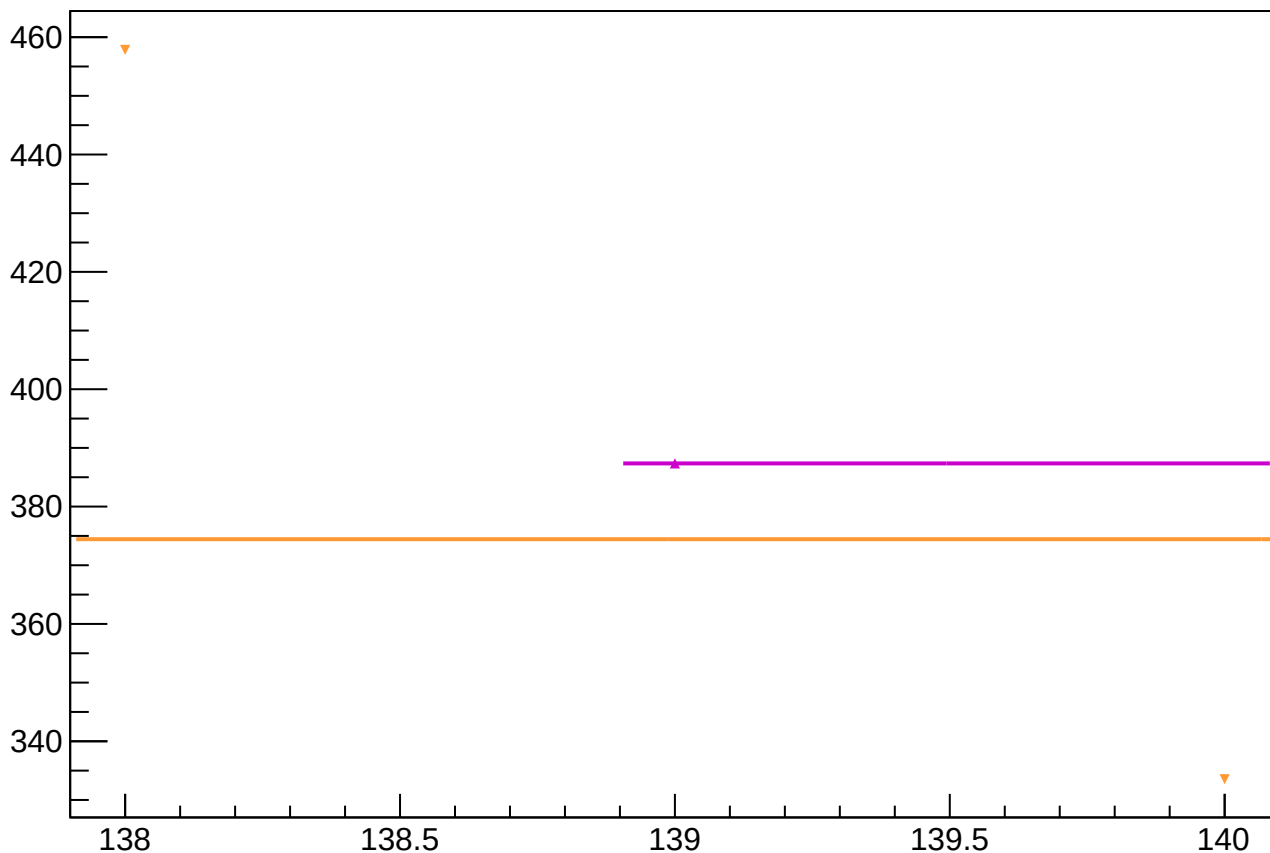
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -744.718+/-437.991  $\chi^2/\text{NDF}$ : 0.0/0

Out: 112.183+/-306.993  $\chi^2/\text{NDF}$ : 0.4/1

All: -170.109+/-251.391  $\chi^2/\text{NDF}$ : 3.0/2

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: 374.441+/-0.217  $\chi^2/\text{NDF}$ : 72396.7/1

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

Left In: 387.356+/-0.310  $\chi^2/\text{NDF}$ : 0.0/0

Left: 378.695+/-0.178  $\chi^2/\text{NDF}$ : 73562.8/2

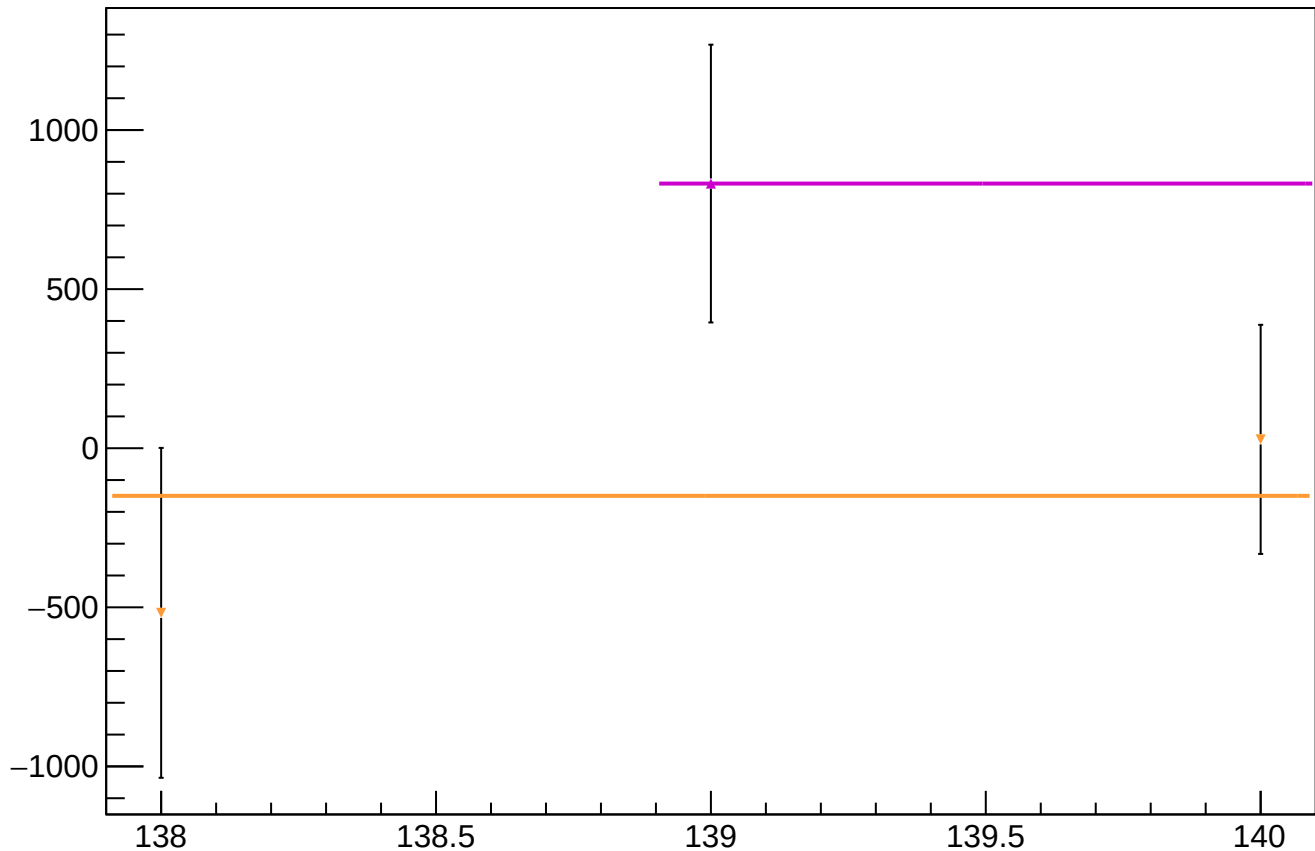
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 387.356+/-0.310  $\chi^2/\text{NDF}$ : 0.0/0

Out: 374.441+/-0.217  $\chi^2/\text{NDF}$ : 72396.7/1

All: 378.695+/-0.178  $\chi^2/\text{NDF}$ : 73562.8/2

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: -149.584+/-295.724  $\chi^2/\text{NDF}$ : 0.7/1

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

Left In: 831.789+/-436.542  $\chi^2/\text{NDF}$ : 0.0/0

Left: 159.111+/-244.835  $\chi^2/\text{NDF}$ : 4.2/2

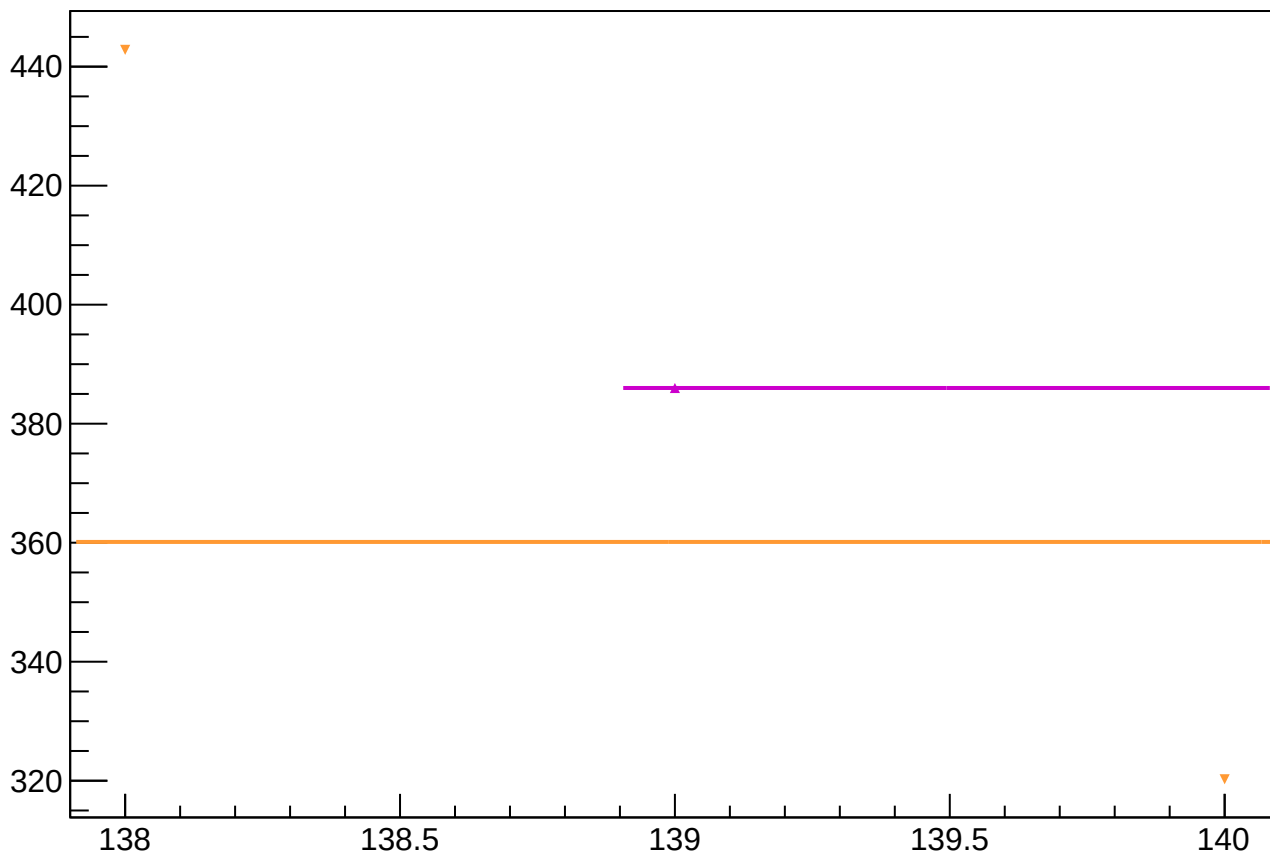
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 831.789+/-436.542  $\chi^2/\text{NDF}$ : 0.0/0

Out: -149.584+/-295.724  $\chi^2/\text{NDF}$ : 0.7/1

All: 159.111+/-244.835  $\chi^2/\text{NDF}$ : 4.2/2

# 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: 360.129+/-0.209  $\chi^2/\text{NDF}$ : 75429.8/1

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

Left In: 386.000+/-0.309  $\chi^2/\text{NDF}$ : 0.0/0

Left: 368.267+/-0.173  $\chi^2/\text{NDF}$ : 80244.4/2

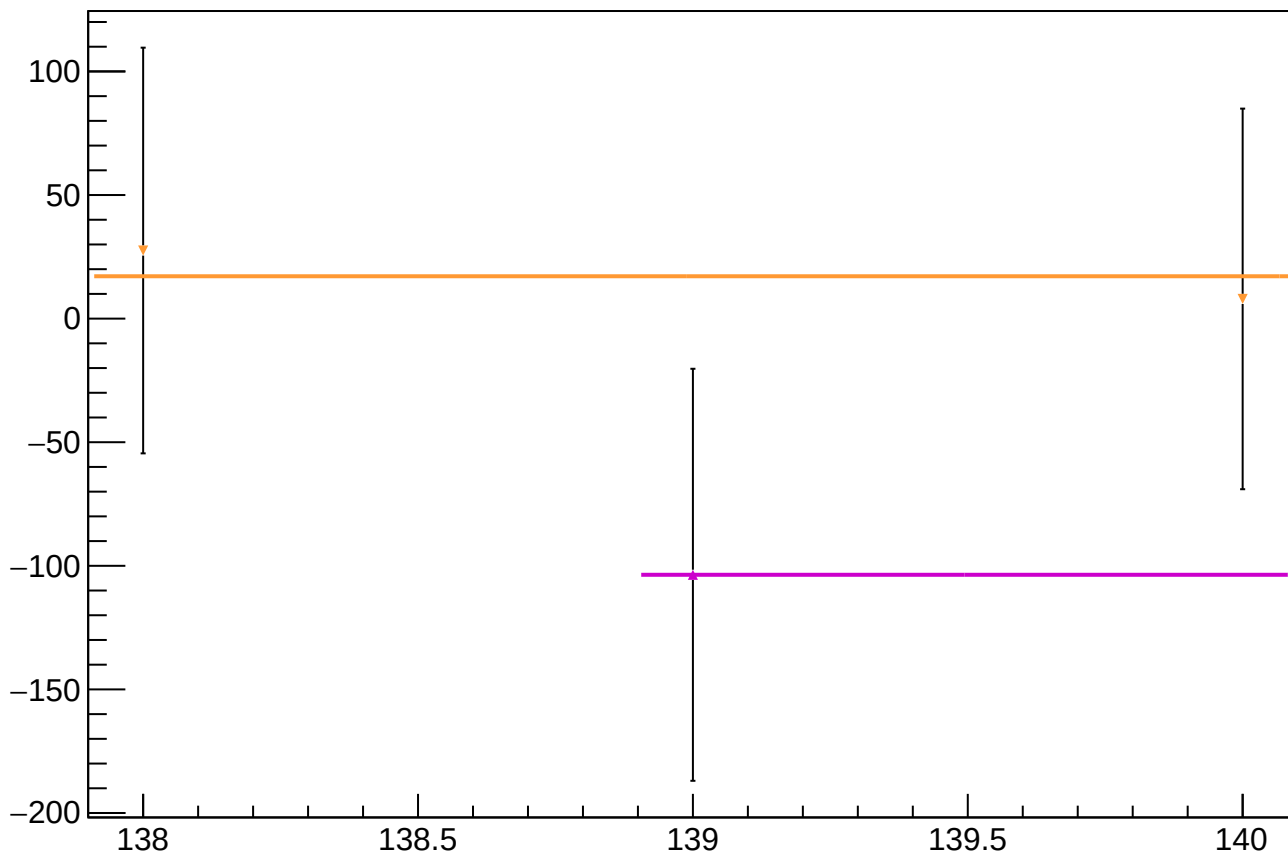
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 386.000+/-0.309  $\chi^2/\text{NDF}$ : 0.0/0

Out: 360.129+/-0.209  $\chi^2/\text{NDF}$ : 75429.8/1

All: 368.267+/-0.173  $\chi^2/\text{NDF}$ : 80244.4/2

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Left: -20.564 $\pm$ 46.565  $\chi^2/\text{NDF}$ : 1.5/2

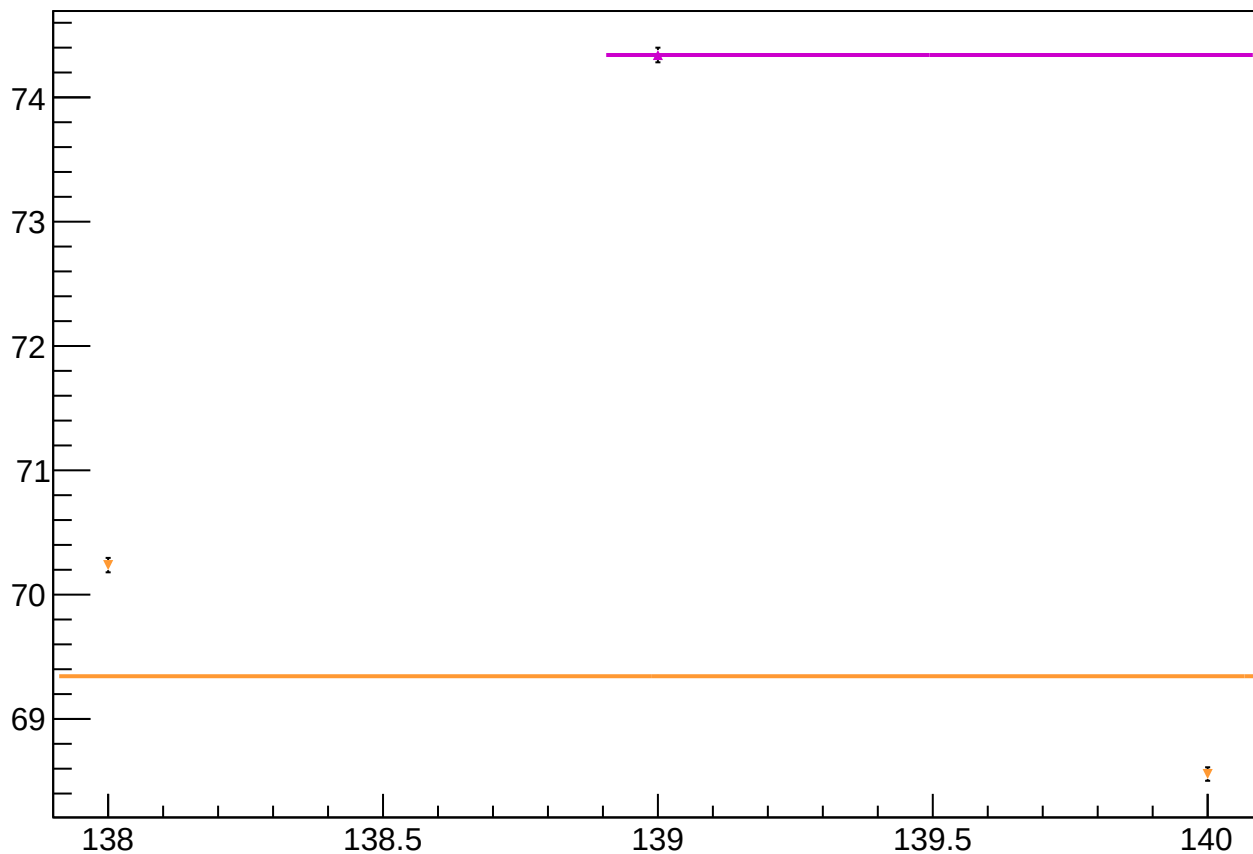
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -103.632 $\pm$ 83.342  $\chi^2/\text{NDF}$ : 0.0/0

Out: 17.136 $\pm$ 56.146  $\chi^2/\text{NDF}$ : 0.0/1

All: -20.564 $\pm$ 46.565  $\chi^2/\text{NDF}$ : 1.5/2

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: 69.344+/-0.040  $\chi^2/\text{NDF}$ : 446.1/1

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

Left In: 74.341+/-0.059  $\chi^2/\text{NDF}$ : 0.0/0

Left: 70.904+/-0.033  $\chi^2/\text{NDF}$ : 5391.9/2

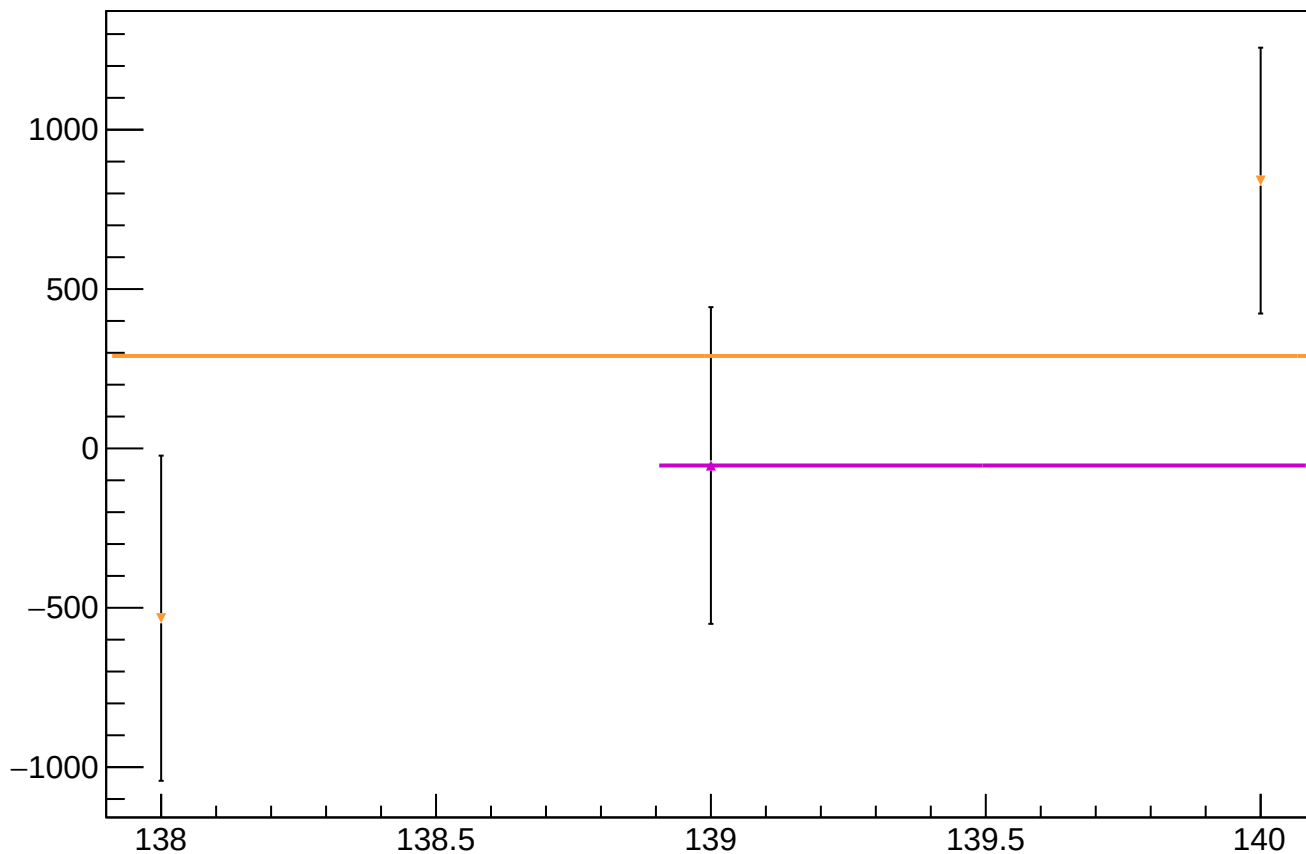
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 74.341+/-0.059  $\chi^2/\text{NDF}$ : 0.0/0

Out: 69.344+/-0.040  $\chi^2/\text{NDF}$ : 446.1/1

All: 70.904+/-0.033  $\chi^2/\text{NDF}$ : 5391.9/2

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: 290.148+/-322.893  $\chi^2/\text{NDF}$ :4.3/1

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

Left In: -53.579+/-496.837  $\chi^2/\text{NDF}$ :0.0/0

Left: 188.079+/-270.741  $\chi^2/\text{NDF}$ : 4.7/2

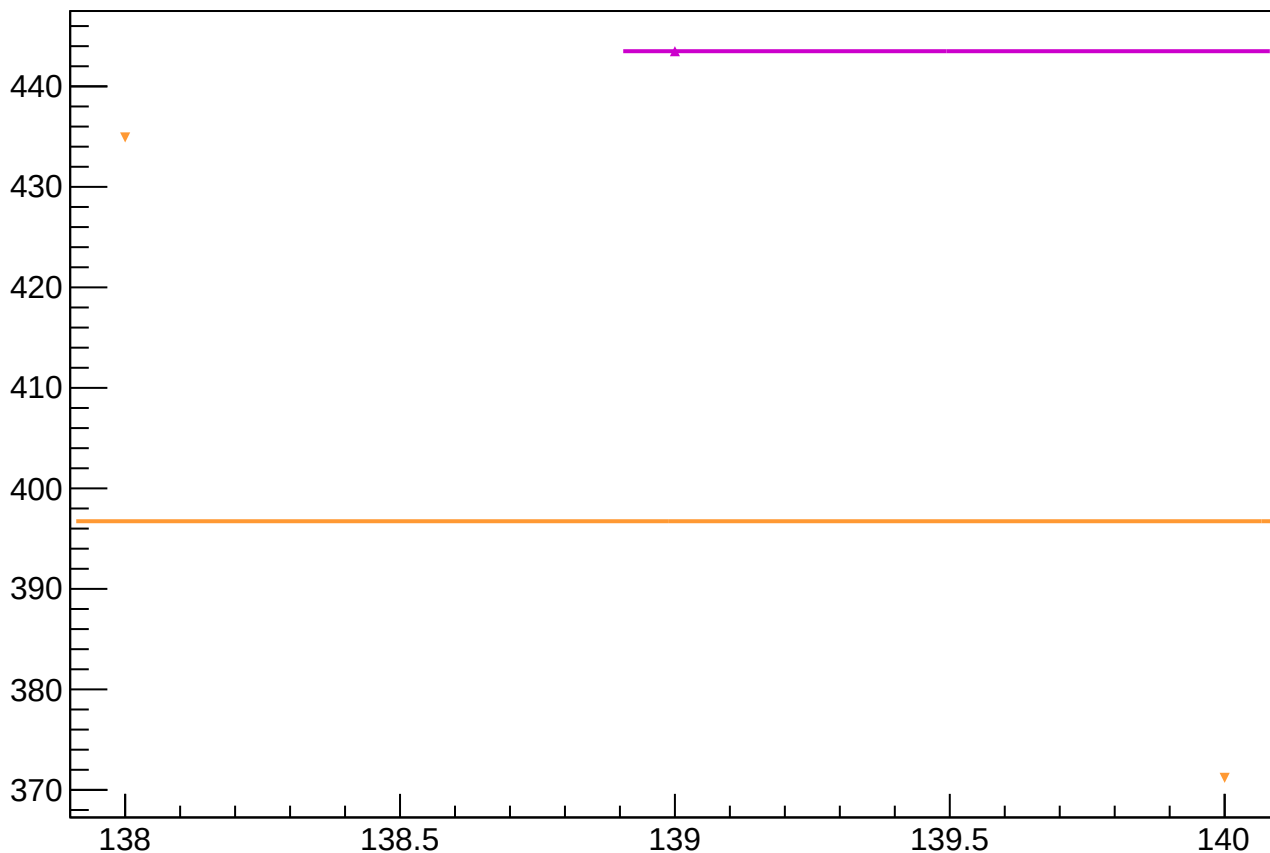
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -53.579+/-496.837  $\chi^2/\text{NDF}$ :0.0/0

Out: 290.148+/-322.893  $\chi^2/\text{NDF}$ :4.3/1

All: 188.079+/-270.741  $\chi^2/\text{NDF}$ : 4.7/2

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: 396.731+/-0.228  $\chi^2/\text{NDF}$ :18703.0/1

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

Left In: 443.499+/-0.351  $\chi^2/\text{NDF}$ :0.0/0

Left: 410.619+/-0.191  $\chi^2/\text{NDF}$ : 31162.1/2

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

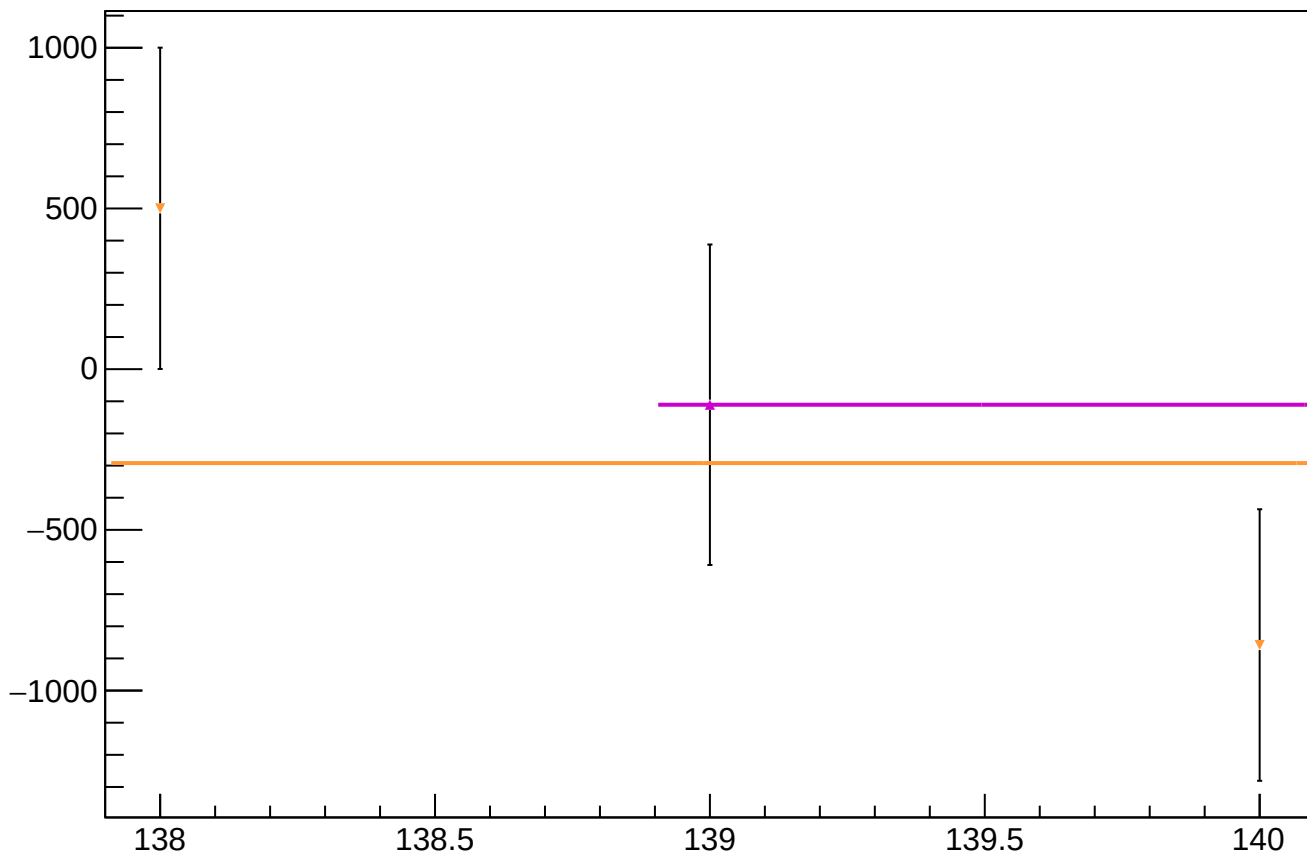
In: 443.499+/-0.351  $\chi^2/\text{NDF}$ :0.0/0

Out: 396.731+/-0.228  $\chi^2/\text{NDF}$ :18703.0/1

All: 410.619+/-0.191  $\chi^2/\text{NDF}$ : 31162.1/2



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: -292.206+/-322.659  $\chi^2/\text{NDF}$ : 4.3/1

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

Left In: -110.694+/-498.533  $\chi^2/\text{NDF}$ : 0.0/0

Left: -238.619+/-270.875  $\chi^2/\text{NDF}$ : 4.4/2

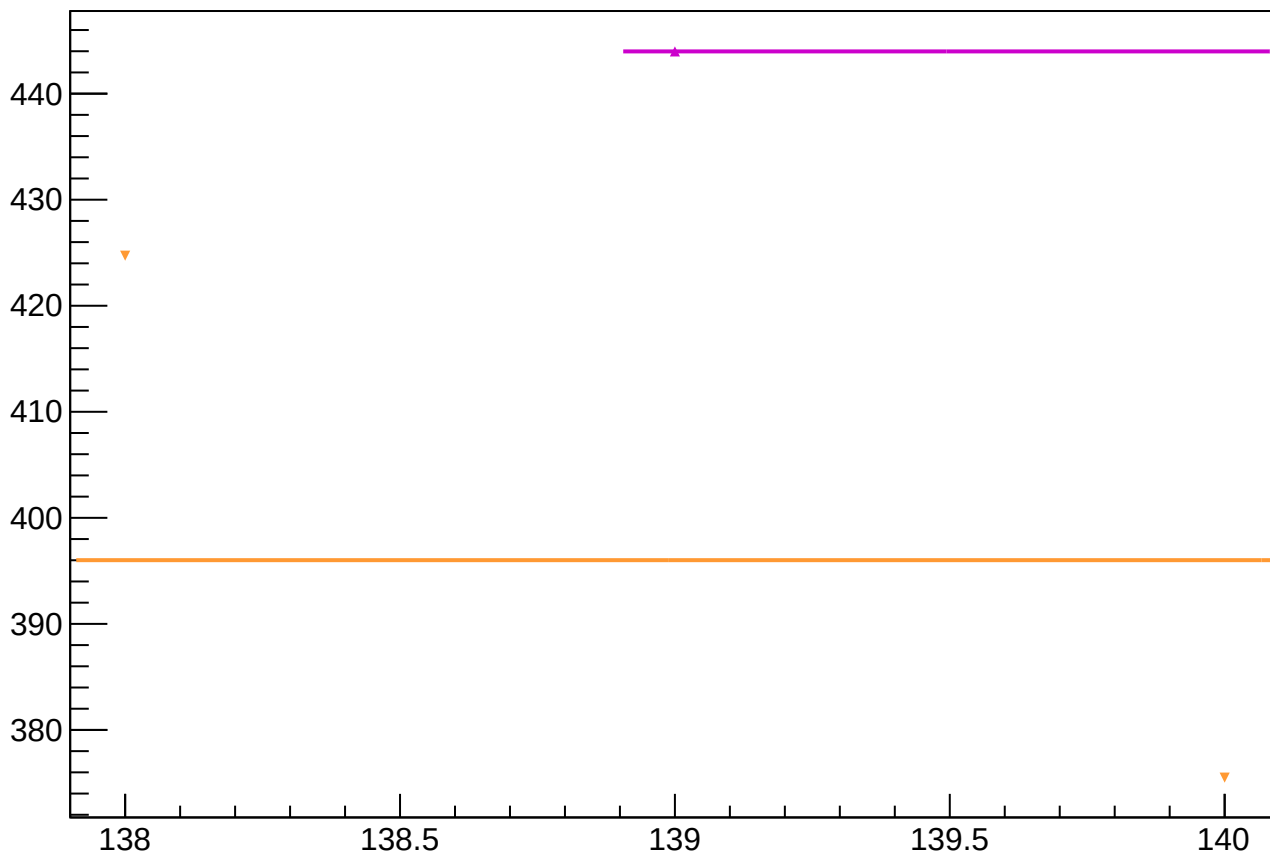
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -110.694+/-498.533  $\chi^2/\text{NDF}$ : 0.0/0

Out: -292.206+/-322.659  $\chi^2/\text{NDF}$ : 4.3/1

All: -238.619+/-270.875  $\chi^2/\text{NDF}$ : 4.4/2

# 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: 396.009+/-0.228  $\chi^2/\text{NDF}$ :11310.8/1

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

Left In: 443.983+/-0.353  $\chi^2/\text{NDF}$ :0.0/0

Left: 410.172+/-0.192  $\chi^2/\text{NDF}$ : 24364.1/2

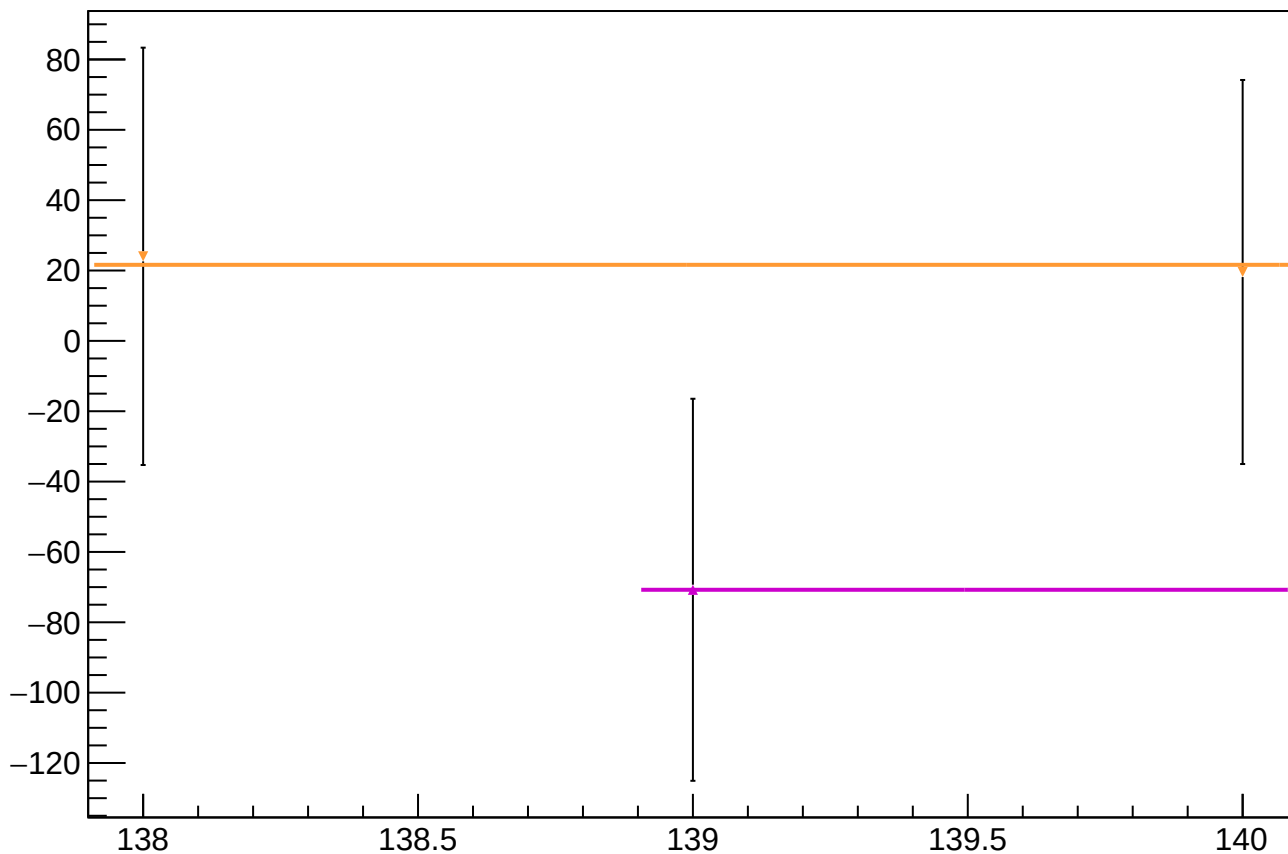
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 443.983+/-0.353  $\chi^2/\text{NDF}$ :0.0/0

Out: 396.009+/-0.228  $\chi^2/\text{NDF}$ :11310.8/1

All: 410.172+/-0.192  $\chi^2/\text{NDF}$ : 24364.1/2

dit\_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: 21.622+/-40.169  $\chi^2/\text{NDF}$ : 0.0/1

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

Left In: -70.758+/-54.302  $\chi^2/\text{NDF}$ : 0.0/0

Left: -11.050+/-32.293  $\chi^2/\text{NDF}$ : 1.9/2

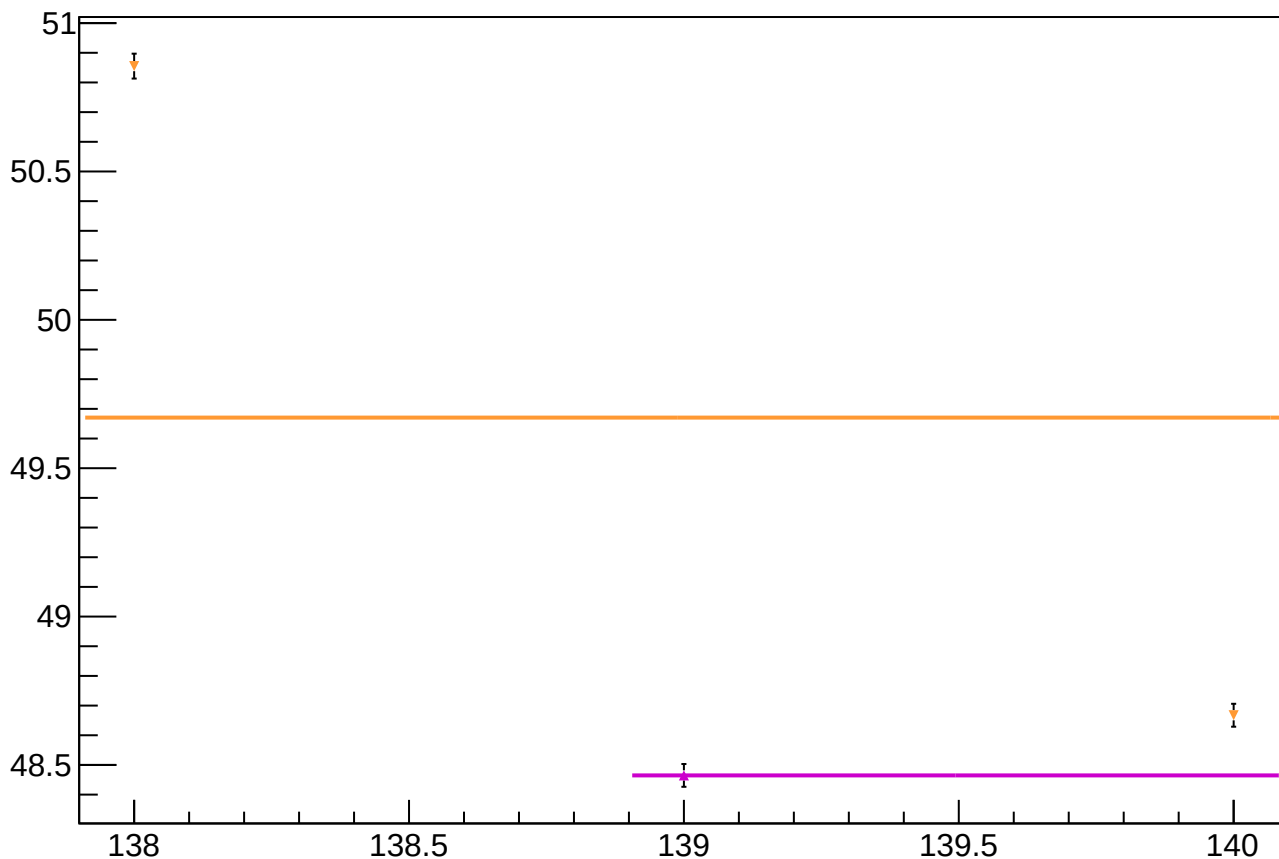
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -70.758+/-54.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 21.622+/-40.169  $\chi^2/\text{NDF}$ : 0.0/1

All: -11.050+/-32.293  $\chi^2/\text{NDF}$ : 1.9/2

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 49.671+/-0.028  $\chi^2/\text{NDF}$ :1472.8/1

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

Left In: 48.465+/-0.038  $\chi^2/\text{NDF}$ :0.0/0

Left: 49.244+/-0.023  $\chi^2/\text{NDF}$ : 2110.2/2

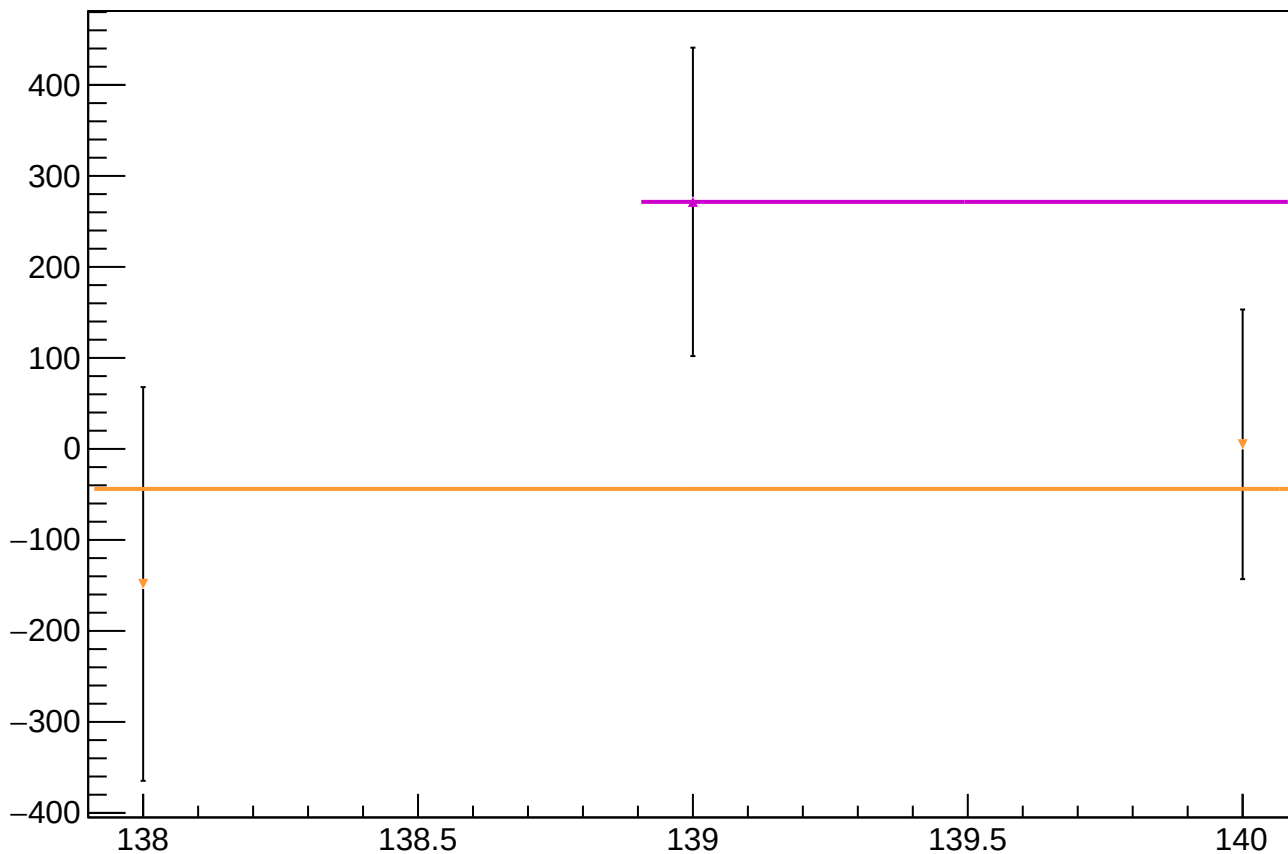
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 48.465+/-0.038  $\chi^2/\text{NDF}$ :0.0/0

Out: 49.671+/-0.028  $\chi^2/\text{NDF}$ :1472.8/1

All: 49.244+/-0.023  $\chi^2/\text{NDF}$ : 2110.2/2

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: -43.931+/-122.238  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: 271.475+/-169.456  $\chi^2/\text{NDF}$ : 0.0/0

Left: 64.020+/-99.137  $\chi^2/\text{NDF}$ : 2.6/2

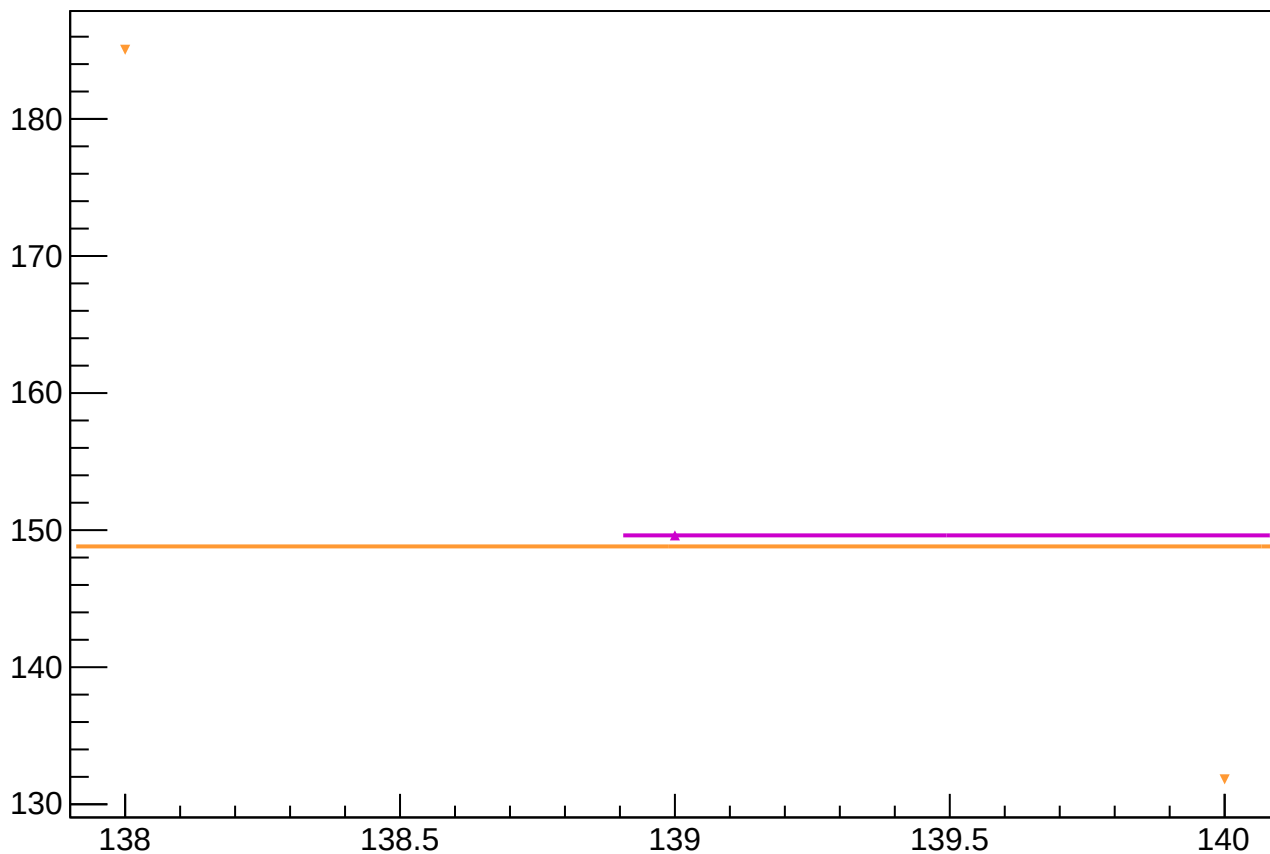
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 271.475+/-169.456  $\chi^2/\text{NDF}$ : 0.0/0

Out: -43.931+/-122.238  $\chi^2/\text{NDF}$ : 0.3/1

All: 64.020+/-99.137  $\chi^2/\text{NDF}$ : 2.6/2

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: 148.812+/-0.086  $\chi^2/\text{NDF}$ : 82423.8/1

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

Left In: 149.618+/-0.120  $\chi^2/\text{NDF}$ : 0.0/0

Left: 149.088+/-0.070  $\chi^2/\text{NDF}$ : 82453.6/2

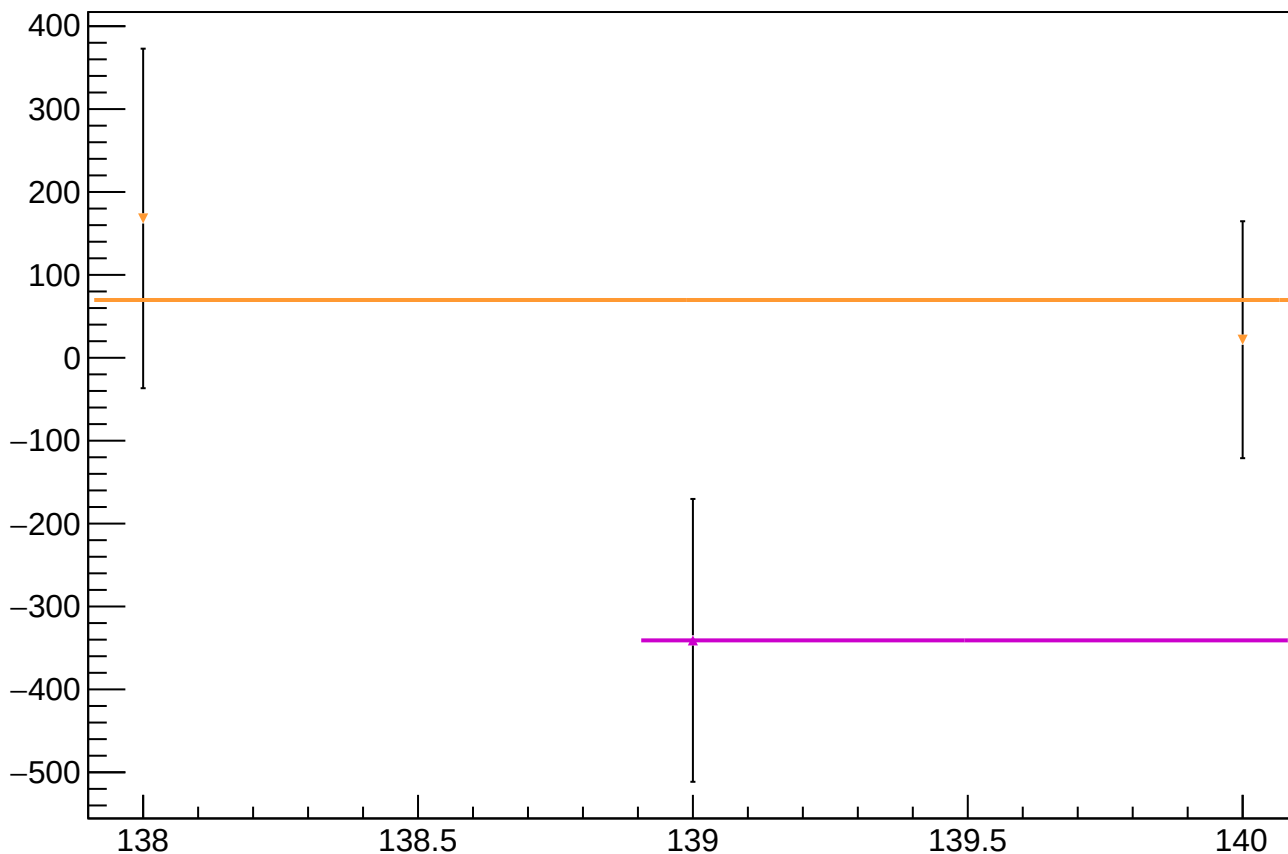
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 149.618+/-0.120  $\chi^2/\text{NDF}$ : 0.0/0

Out: 148.812+/-0.086  $\chi^2/\text{NDF}$ : 82423.8/1

All: 149.088+/-0.070  $\chi^2/\text{NDF}$ : 82453.6/2

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: 69.710+/-117.188  $\chi^2/\text{NDF}$ : 0.3/1

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

Left In: -340.872+/-170.591  $\chi^2/\text{NDF}$ : 0.0/0

Left: -61.925+/-96.592  $\chi^2/\text{NDF}$ : 4.3/2

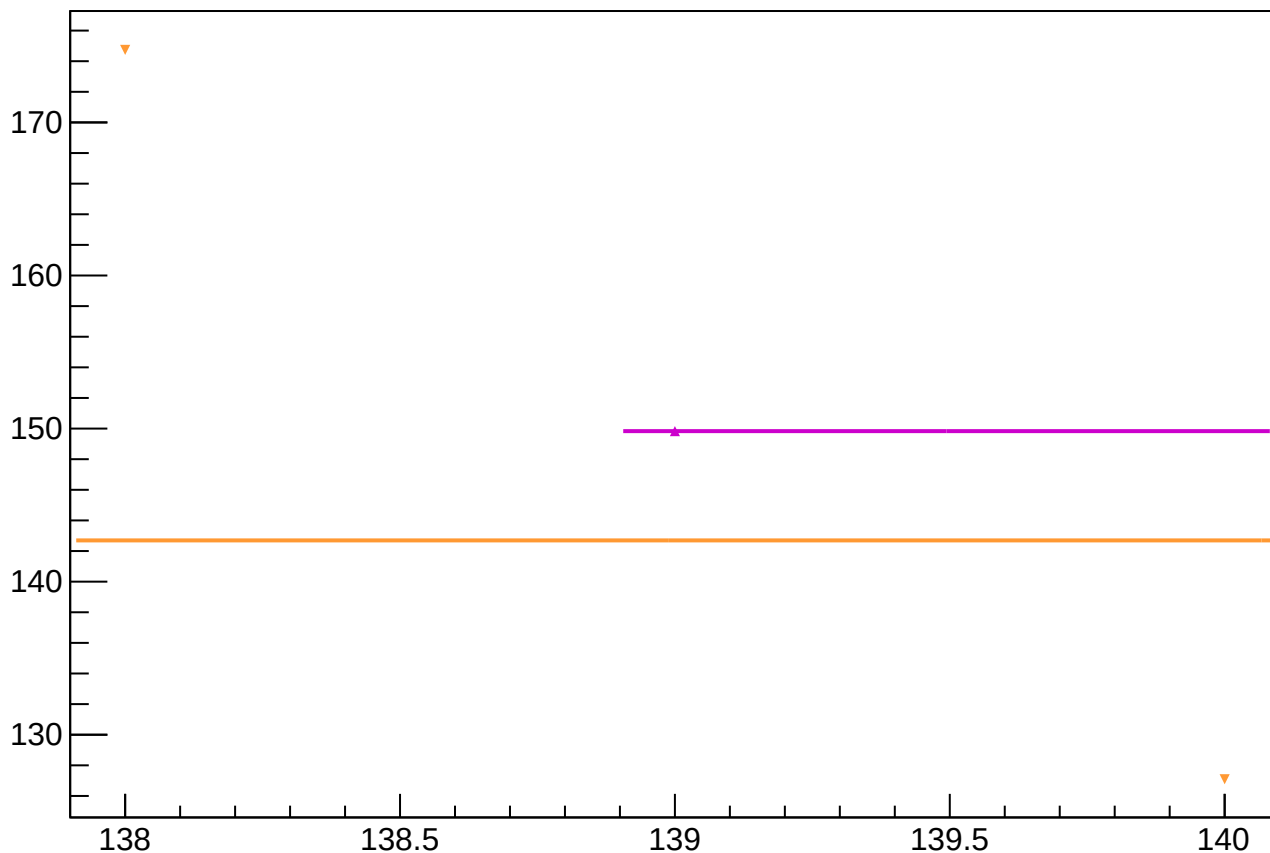
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -340.872+/-170.591  $\chi^2/\text{NDF}$ : 0.0/0

Out: 69.710+/-117.188  $\chi^2/\text{NDF}$ : 0.3/1

All: -61.925+/-96.592  $\chi^2/\text{NDF}$ : 4.3/2

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: 142.695+/-0.083  $\chi^2/\text{NDF}$ : 72817.7/1

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

Left In: 149.833+/-0.121  $\chi^2/\text{NDF}$ : 0.0/0

Left: 144.983+/-0.068  $\chi^2/\text{NDF}$ : 75197.1/2

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

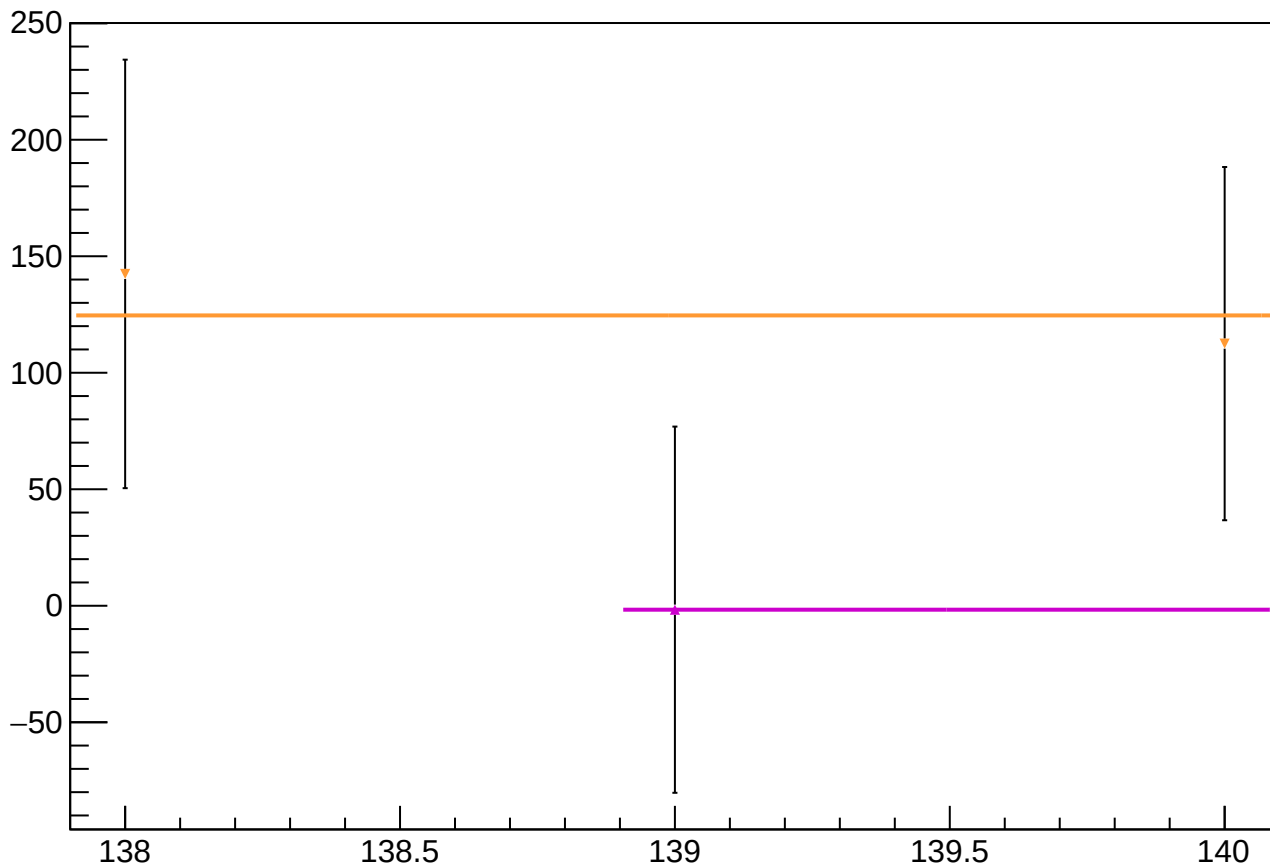
In: 149.833+/-0.121  $\chi^2/\text{NDF}$ : 0.0/0

Out: 142.695+/-0.083  $\chi^2/\text{NDF}$ : 72817.7/1

All: 144.983+/-0.068  $\chi^2/\text{NDF}$ : 75197.1/2



dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 124.606+/-58.488  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: -1.690+/-78.582  $\chi^2/\text{NDF}$ : 0.0/0

Left: 79.583+/-46.918  $\chi^2/\text{NDF}$ : 1.7/2

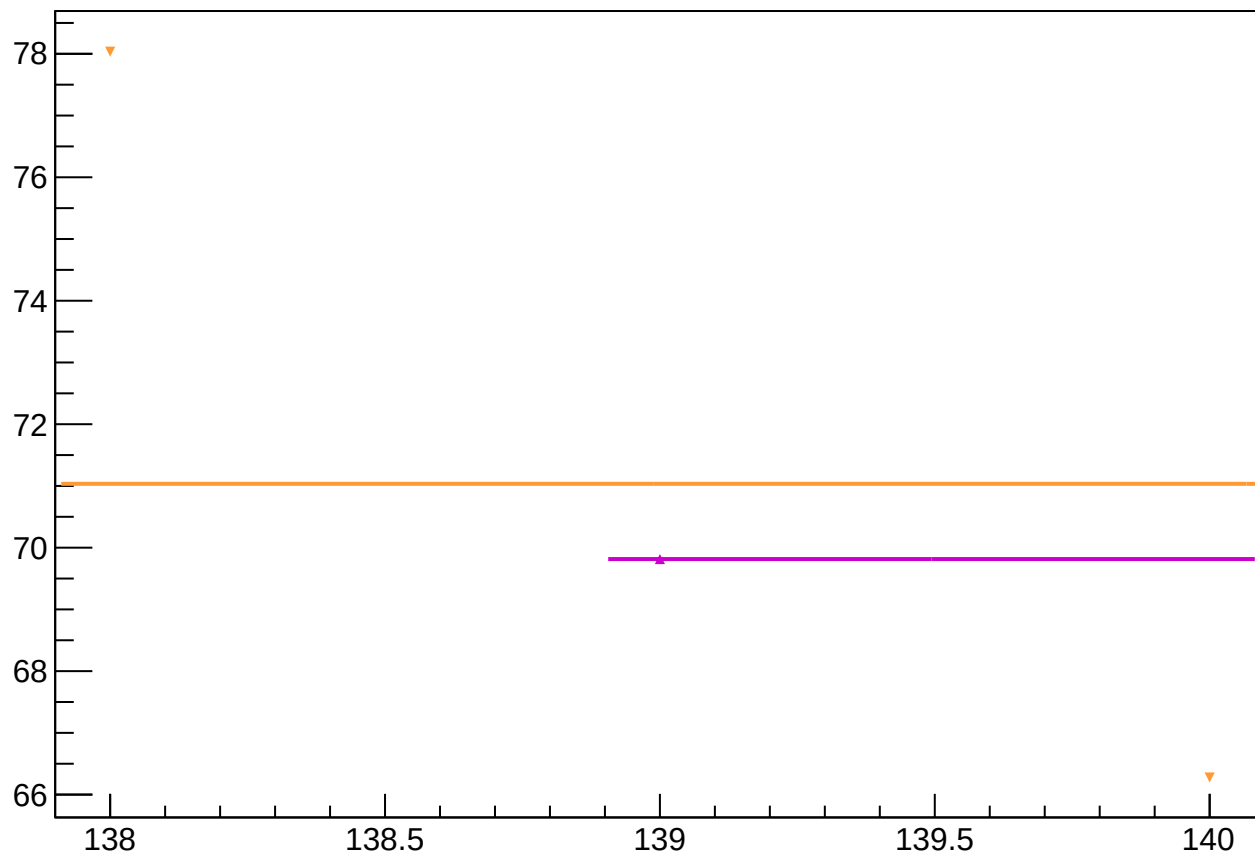
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.690+/-78.582  $\chi^2/\text{NDF}$ : 0.0/0

Out: 124.606+/-58.488  $\chi^2/\text{NDF}$ : 0.1/1

All: 79.583+/-46.918  $\chi^2/\text{NDF}$ : 1.7/2

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: 71.034+/-0.041  $\chi^2/\text{NDF}$ :19469.6/1

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

Left In: 69.816+/-0.056  $\chi^2/\text{NDF}$ :0.0/0

Left: 70.600+/-0.033  $\chi^2/\text{NDF}$ : 19779.2/2

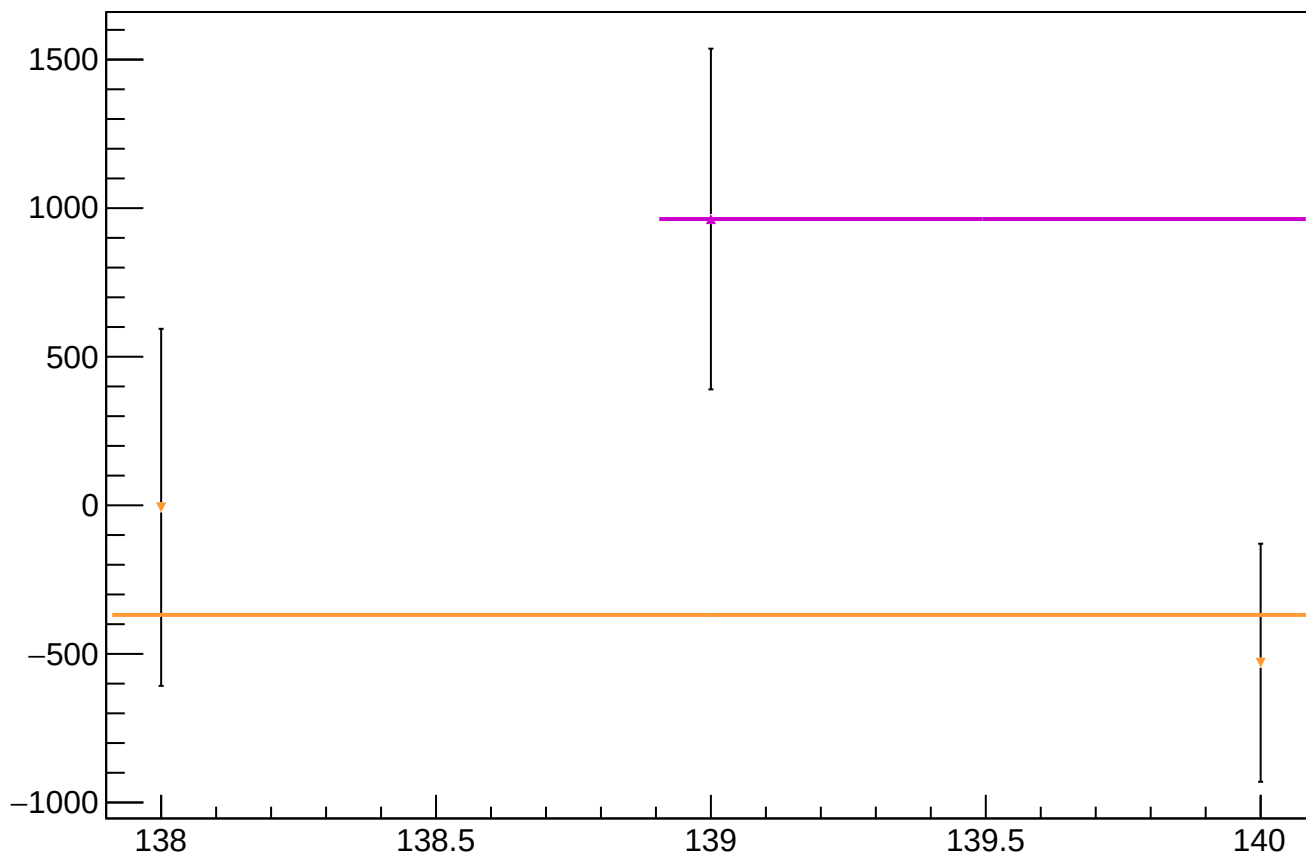
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 69.816+/-0.056  $\chi^2/\text{NDF}$ :0.0/0

Out: 71.034+/-0.041  $\chi^2/\text{NDF}$ :19469.6/1

All: 70.600+/-0.033  $\chi^2/\text{NDF}$ : 19779.2/2

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -368.842+/-333.321  $\chi^2/\text{NDF}$ : 0.5/1

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

Left In: 963.402+/-573.297  $\chi^2/\text{NDF}$ : 0.0/0

Left: -32.267+/-288.157  $\chi^2/\text{NDF}$ : 4.6/2

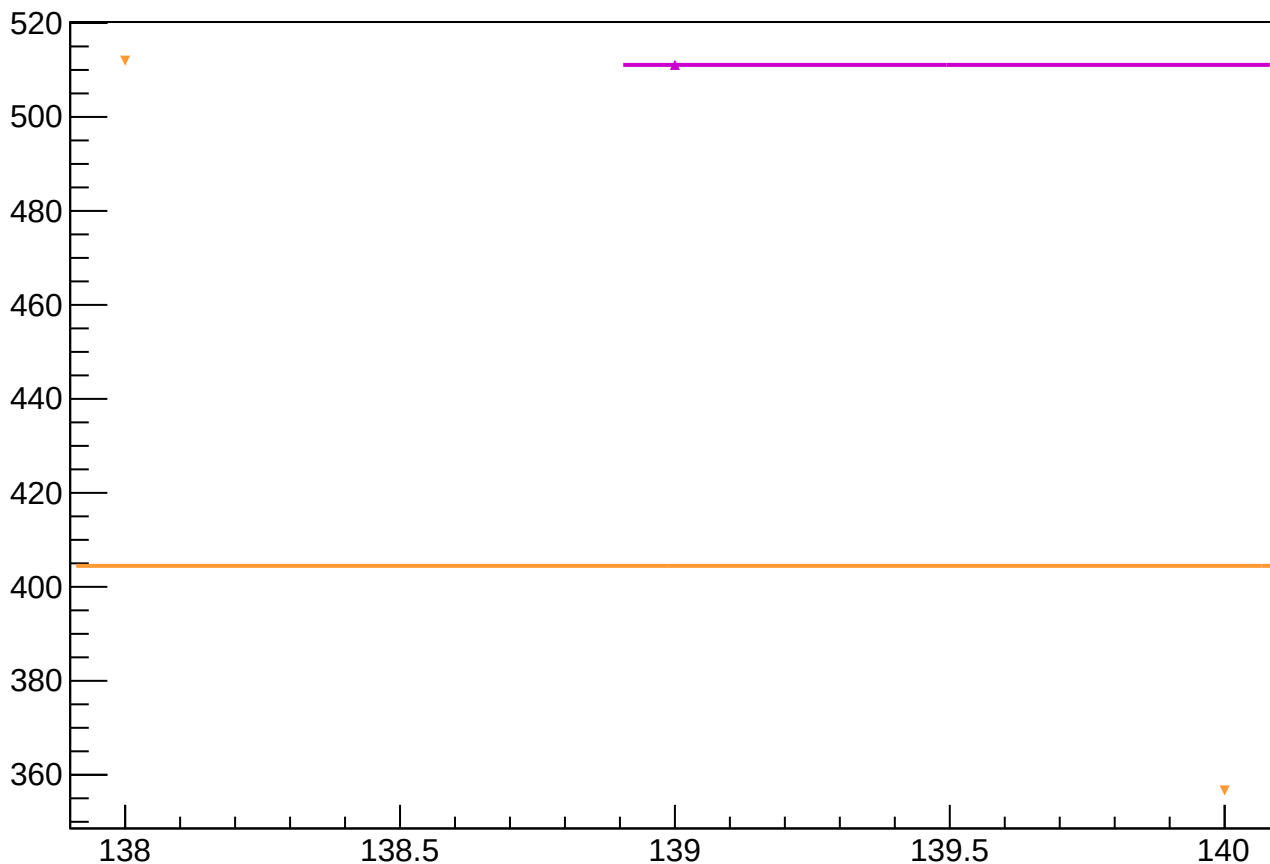
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 963.402+/-573.297  $\chi^2/\text{NDF}$ : 0.0/0

Out: -368.842+/-333.321  $\chi^2/\text{NDF}$ : 0.5/1

All: -32.267+/-288.157  $\chi^2/\text{NDF}$ : 4.6/2

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: 404.465±/-0.236  $\chi^2/\text{NDF}$ : 92501.3/1

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

Left In: 511.076±/-0.405  $\chi^2/\text{NDF}$ : 0.0/0

Left: 431.399±/-0.204  $\chi^2/\text{NDF}$ : 144191.2/2

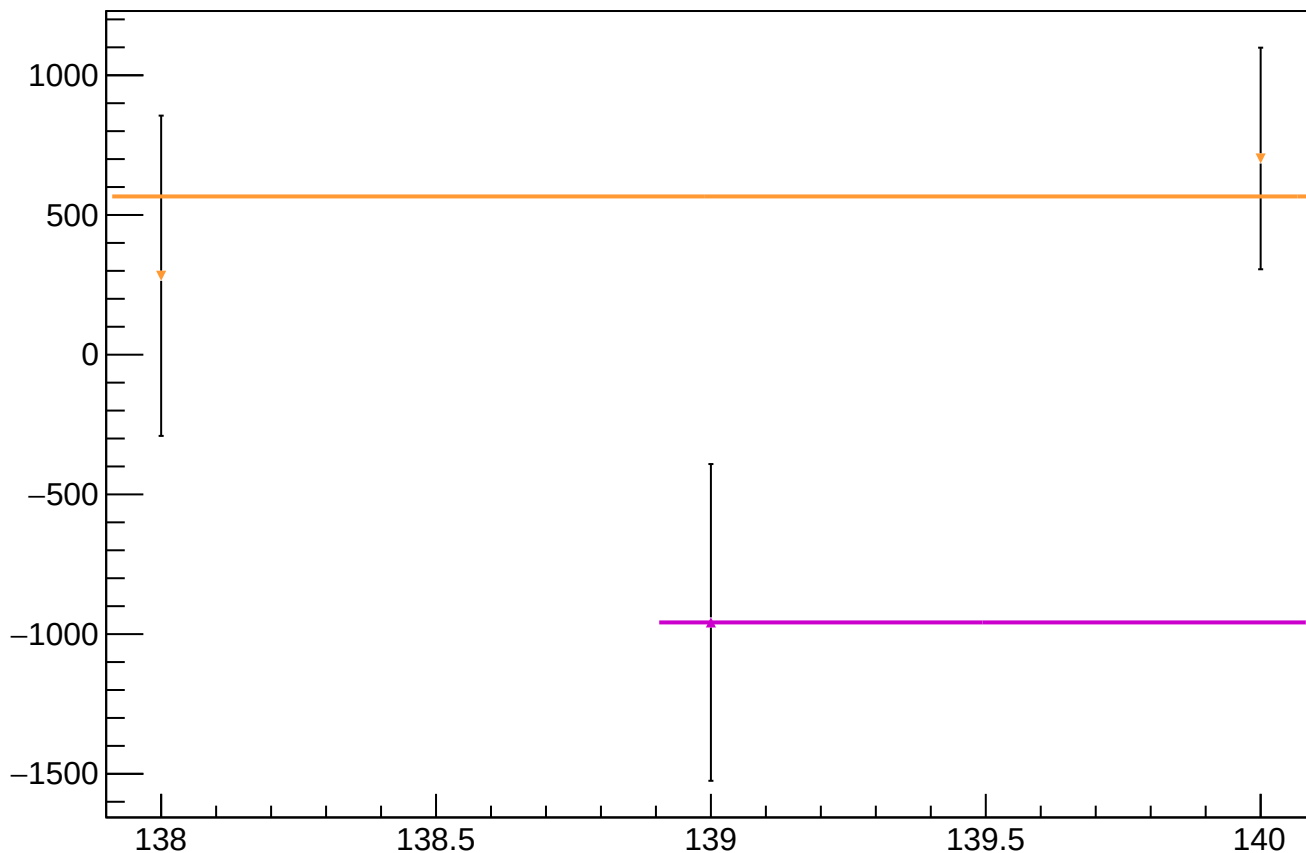
Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 511.076±/-0.405  $\chi^2/\text{NDF}$ : 0.0/0

Out: 404.465±/-0.236  $\chi^2/\text{NDF}$ : 92501.3/1

All: 431.399±/-0.204  $\chi^2/\text{NDF}$ : 144191.2/2

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 566.339+/-326.084  $\chi^2/\text{NDF}$ : 0.4/1

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

Left In: -958.151+/-566.794  $\chi^2/\text{NDF}$ : 0.0/0

Left: 187.233+/-282.646  $\chi^2/\text{NDF}$ : 5.8/2

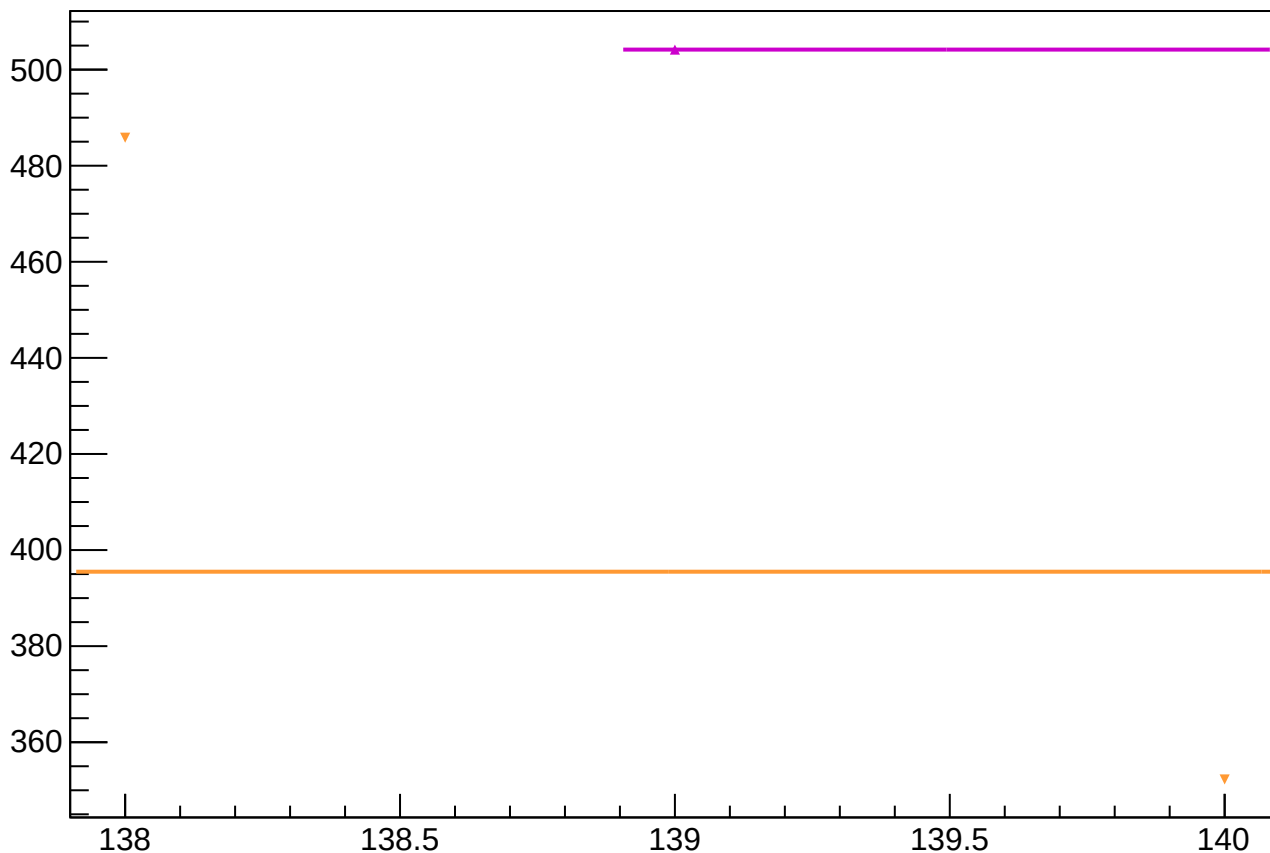
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -958.151+/-566.794  $\chi^2/\text{NDF}$ : 0.0/0

Out: 566.339+/-326.084  $\chi^2/\text{NDF}$ : 0.4/1

All: 187.233+/-282.646  $\chi^2/\text{NDF}$ : 5.8/2

# asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 395.495+/-0.231  $\chi^2/\text{NDF}$ : 73472.1/1

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

Left In: 504.168+/-0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left: 422.520+/-0.200  $\chi^2/\text{NDF}$ : 128711.2/2

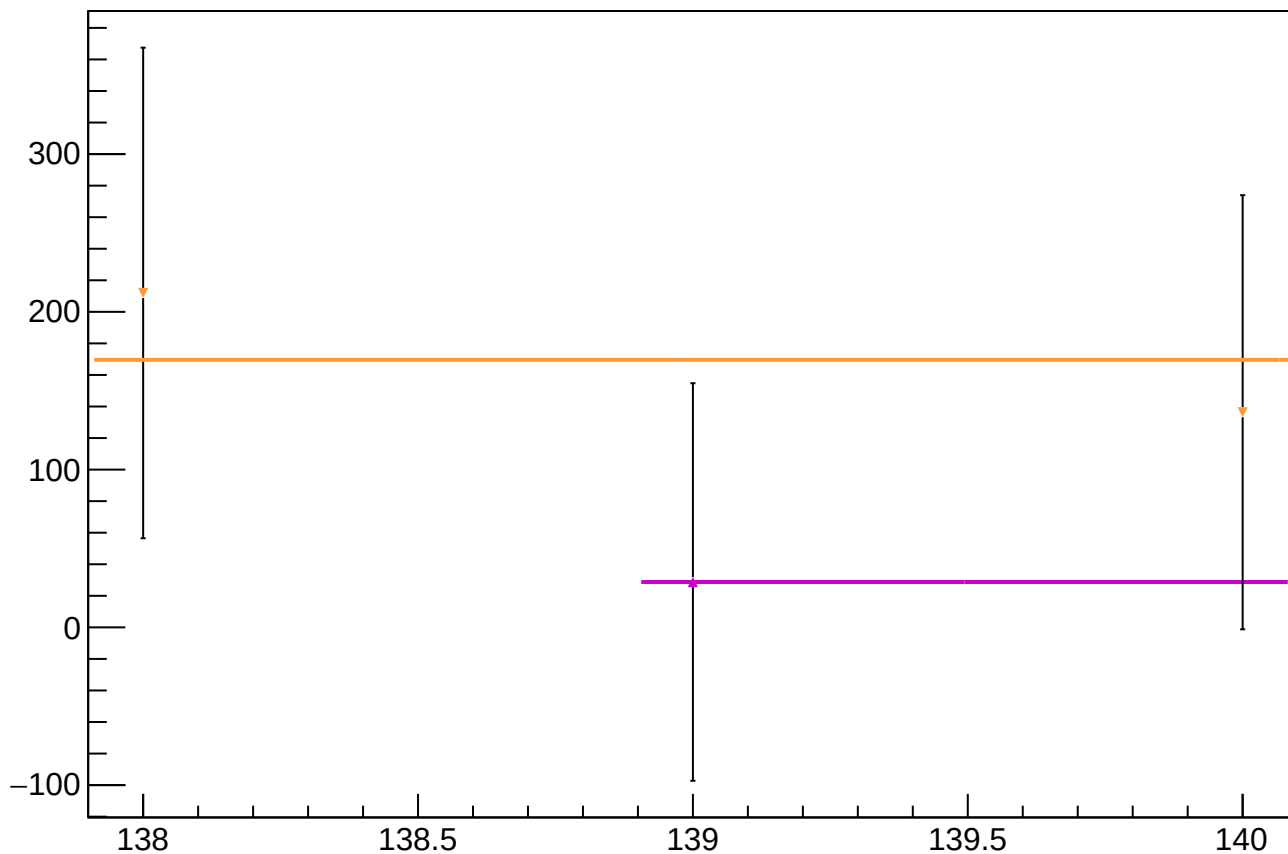
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 504.168+/-0.401  $\chi^2/\text{NDF}$ : 0.0/0

Out: 395.495+/-0.231  $\chi^2/\text{NDF}$ : 73472.1/1

All: 422.520+/-0.200  $\chi^2/\text{NDF}$ : 128711.2/2

dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



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

Left Out:  $169.573 \pm 103.039$   $\chi^2/\text{NDF}$ : 0.1/1

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

Left In:  $28.751 \pm 126.015$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $113.146 \pm 79.768$   $\chi^2/\text{NDF}$ : 0.9/2

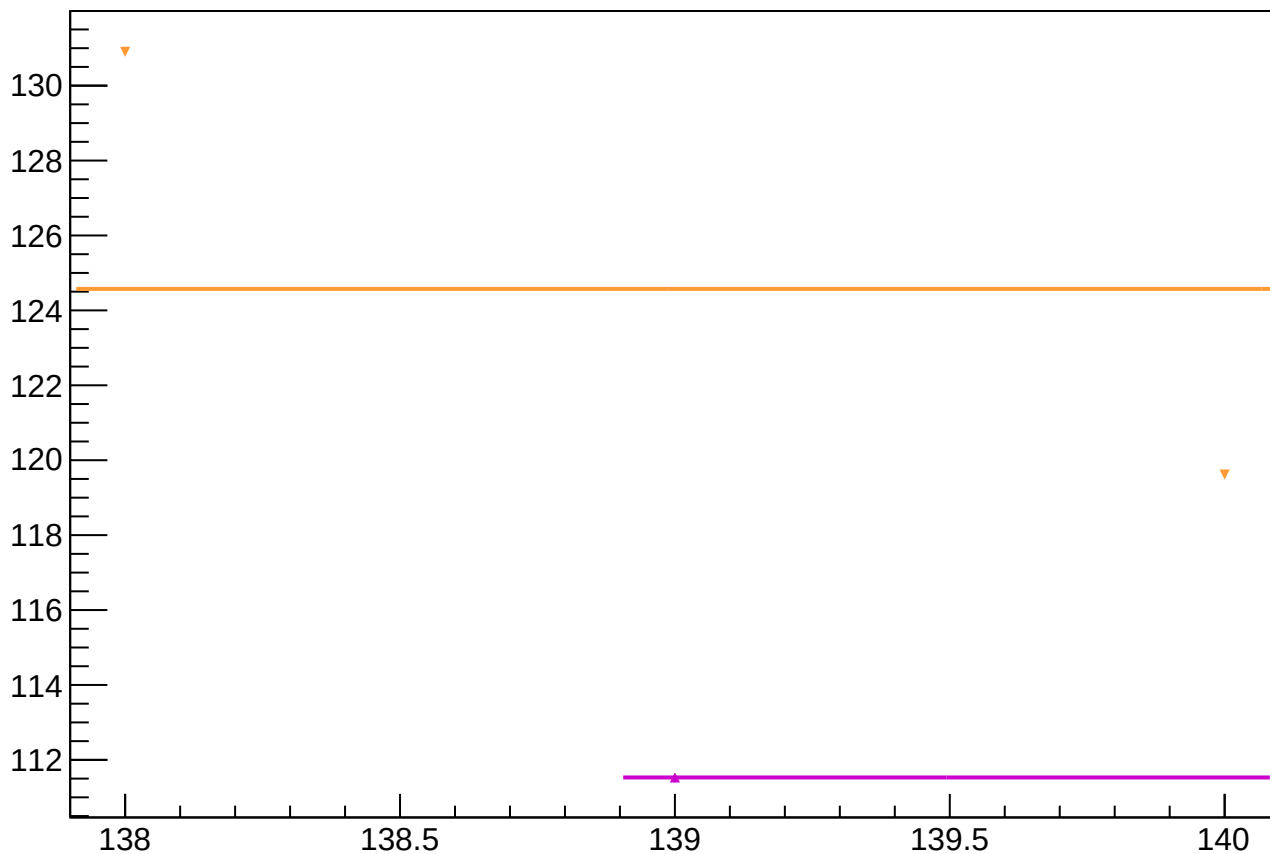
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $28.751 \pm 126.015$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $169.573 \pm 103.039$   $\chi^2/\text{NDF}$ : 0.1/1

All:  $113.146 \pm 79.768$   $\chi^2/\text{NDF}$ : 0.9/2

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: 124.574+/-0.073  $\chi^2/\text{NDF}$ : 5910.0/1

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

Left In: 111.530+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Left: 119.348+/-0.056  $\chi^2/\text{NDF}$ : 18752.2/2

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

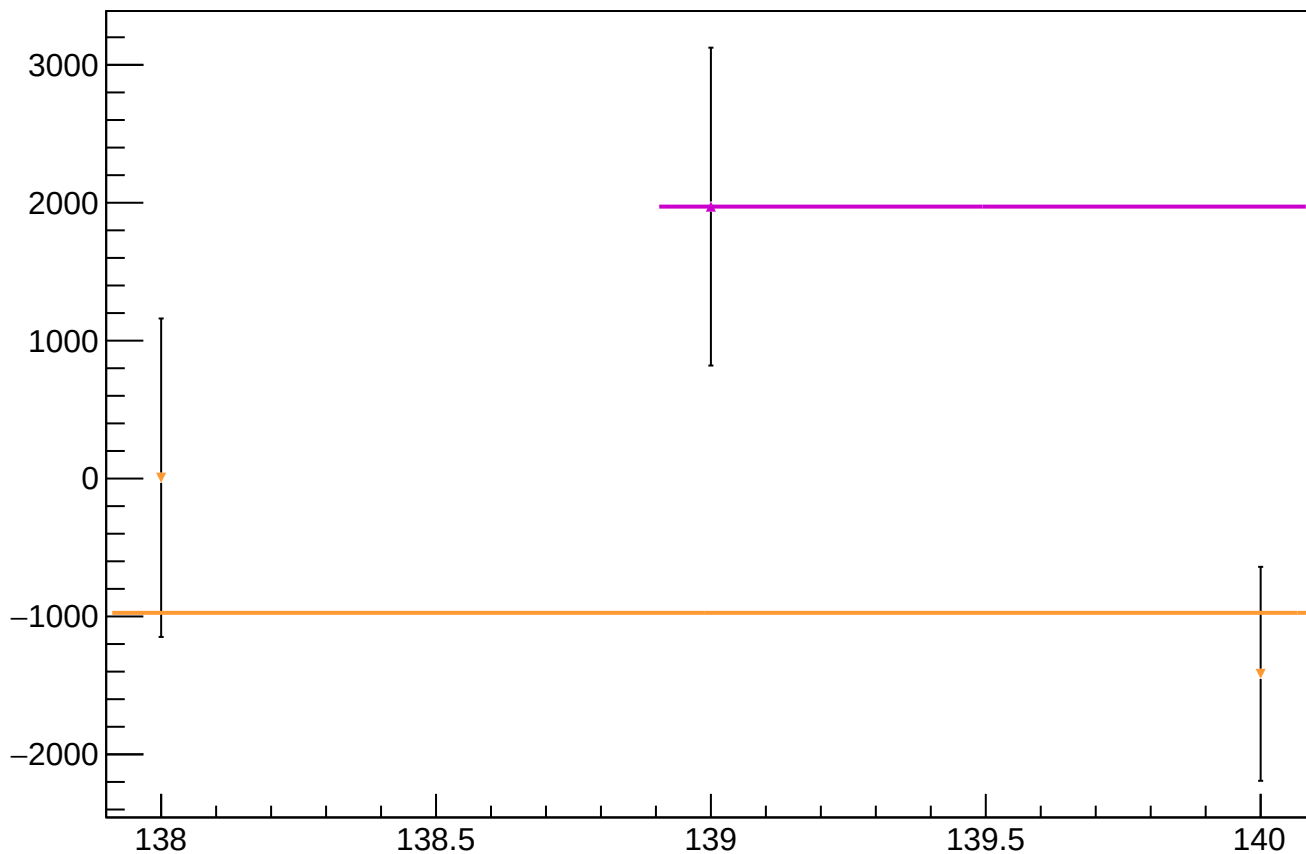
In: 111.530+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Out: 124.574+/-0.073  $\chi^2/\text{NDF}$ : 5910.0/1

All: 119.348+/-0.056  $\chi^2/\text{NDF}$ : 18752.2/2



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: -973.756+/-643.935  $\chi^2/\text{NDF}$ : 1.0/1

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

Left In: 1972.087+/-1152.520  $\chi^2/\text{NDF}$ : 0.0/0

Left: -272.934+/-562.144  $\chi^2/\text{NDF}$ : 6.0/2

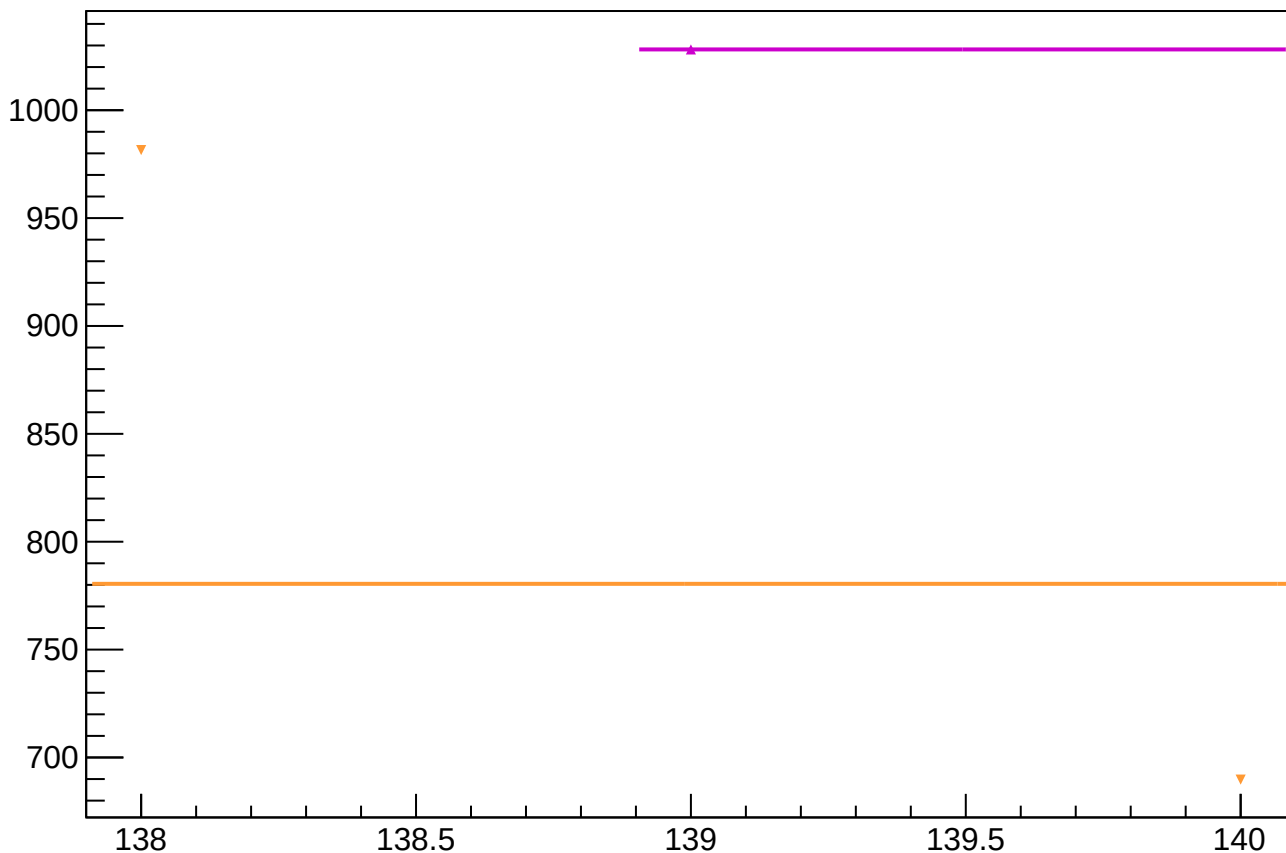
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1972.087+/-1152.520  $\chi^2/\text{NDF}$ : 0.0/0

Out: -973.756+/-643.935  $\chi^2/\text{NDF}$ : 1.0/1

All: -272.934+/-562.144  $\chi^2/\text{NDF}$ : 6.0/2

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: 780.480+/-0.455  $\chi^2/\text{NDF}$ : 87990.3/1

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

Left In: 1028.170+/-0.815  $\chi^2/\text{NDF}$ : 0.0/0

Left: 839.406+/-0.397  $\chi^2/\text{NDF}$ : 158388.4/2

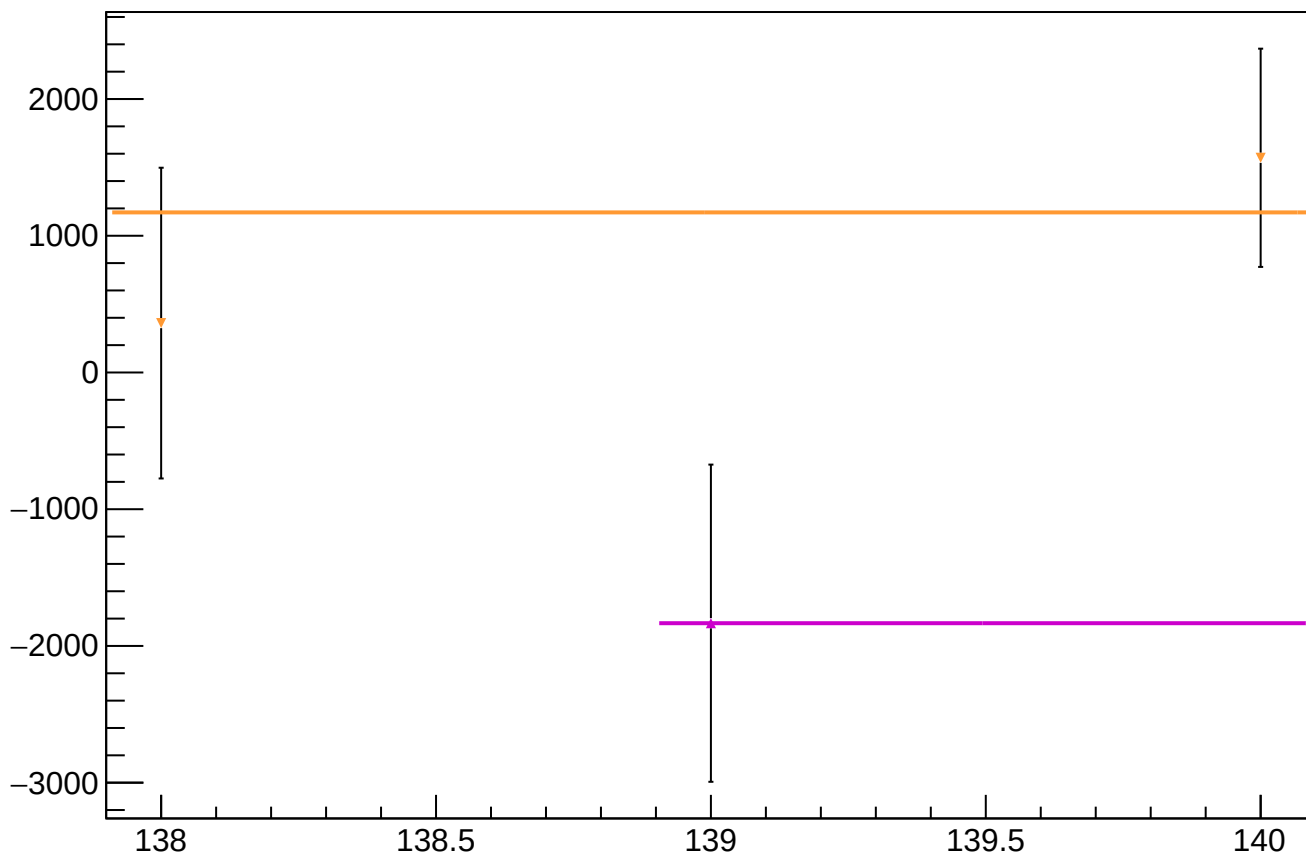
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1028.170+/-0.815  $\chi^2/\text{NDF}$ : 0.0/0

Out: 780.480+/-0.455  $\chi^2/\text{NDF}$ : 87990.3/1

All: 839.406+/-0.397  $\chi^2/\text{NDF}$ : 158388.4/2

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1170.797+/-653.093  $\chi^2/\text{NDF}$ : 0.8/1

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

Left In: -1833.674+/-1159.934  $\chi^2/\text{NDF}$ : 0.0/0

Left: 447.595+/-569.087  $\chi^2/\text{NDF}$ : 5.9/2

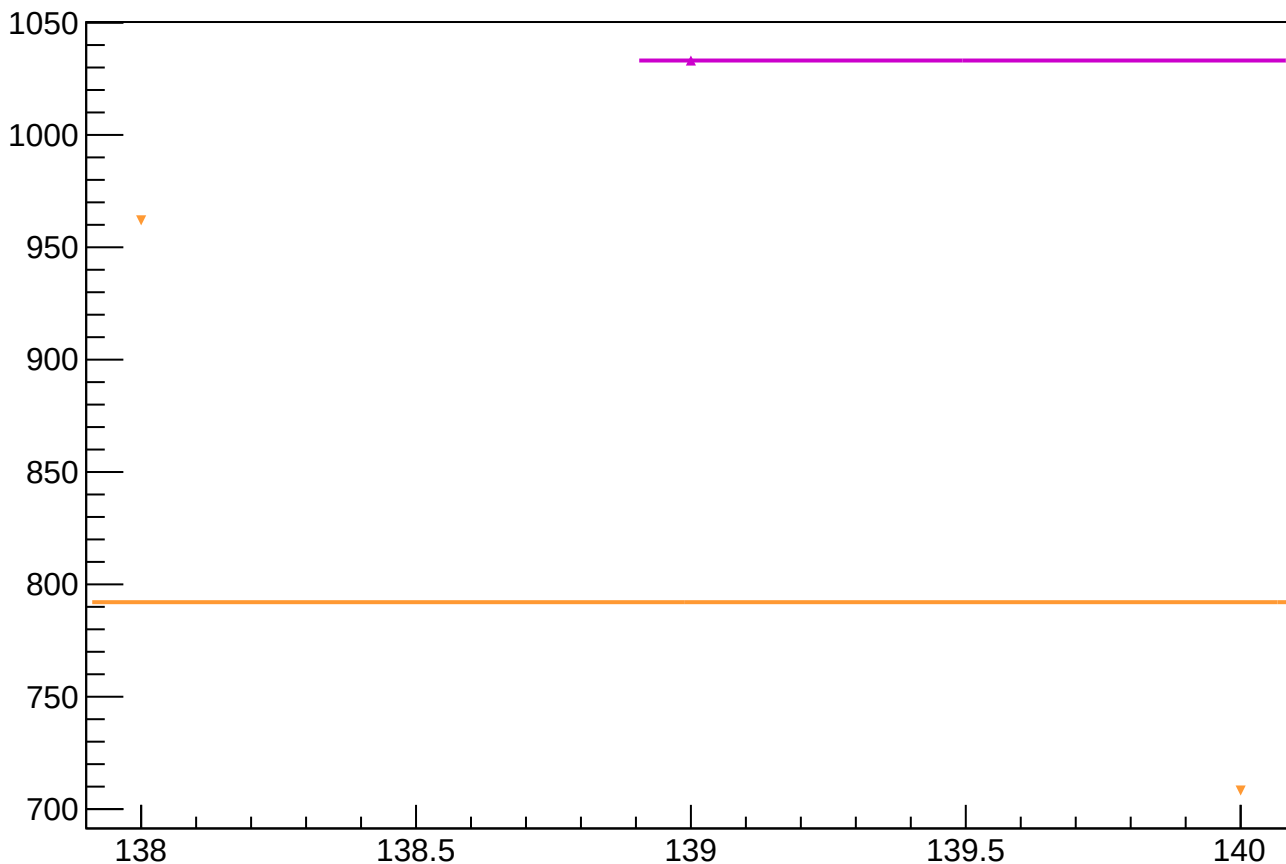
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1833.674+/-1159.934  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1170.797+/-653.093  $\chi^2/\text{NDF}$ : 0.8/1

All: 447.595+/-569.087  $\chi^2/\text{NDF}$ : 5.9/2

# asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 792.077+/-0.462  $\chi^2/\text{NDF}$ : 66777.2/1

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

Left In: 1033.115+/-0.820  $\chi^2/\text{NDF}$ : 0.0/0

Left: 850.097+/-0.402  $\chi^2/\text{NDF}$ : 132352.6/2

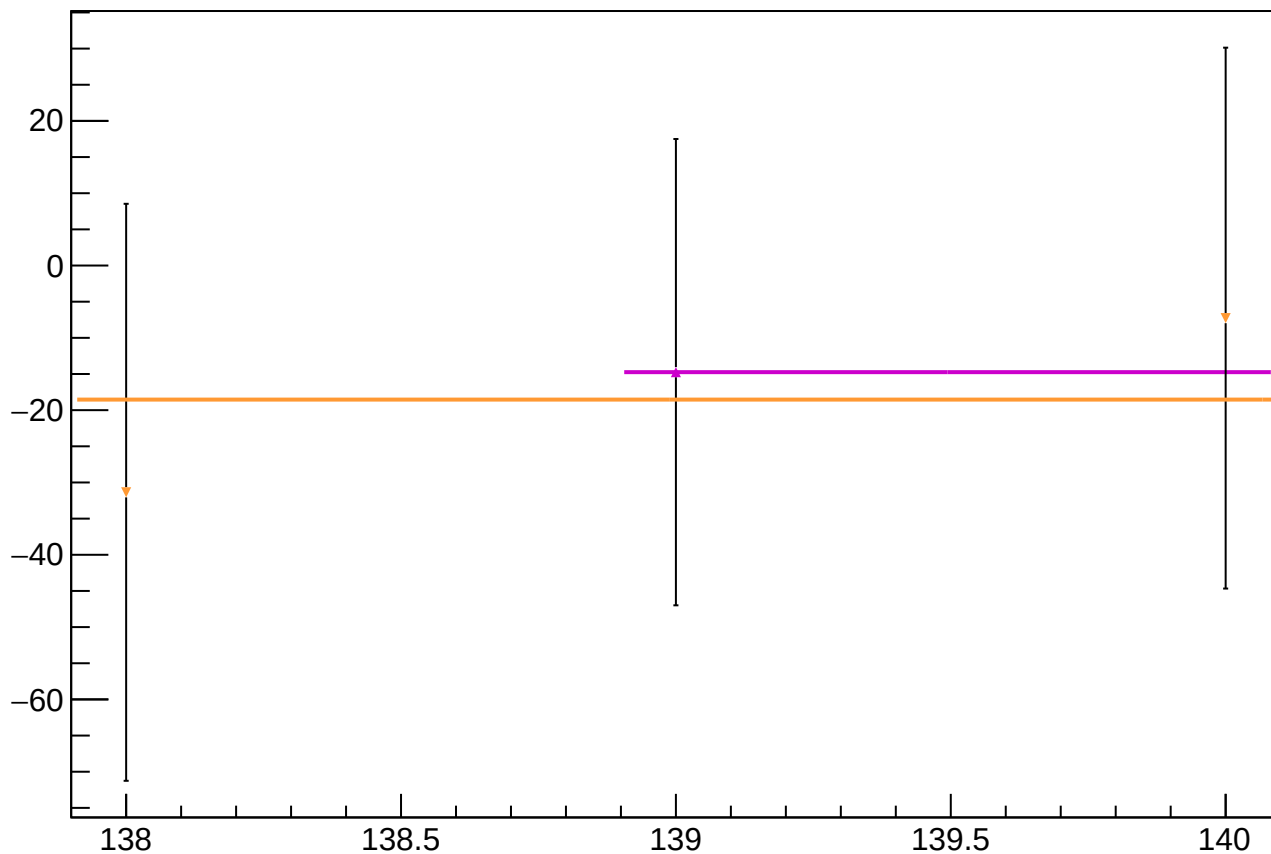
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1033.115+/-0.820  $\chi^2/\text{NDF}$ : 0.0/0

Out: 792.077+/-0.462  $\chi^2/\text{NDF}$ : 66777.2/1

All: 850.097+/-0.402  $\chi^2/\text{NDF}$ : 132352.6/2

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: -18.539+/-27.285  $\chi^2/\text{NDF}$ : 0.2/1

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

Left In: -14.745+/-32.243  $\chi^2/\text{NDF}$ : 0.0/0

Left: -16.955+/-20.828  $\chi^2/\text{NDF}$ : 0.2/2

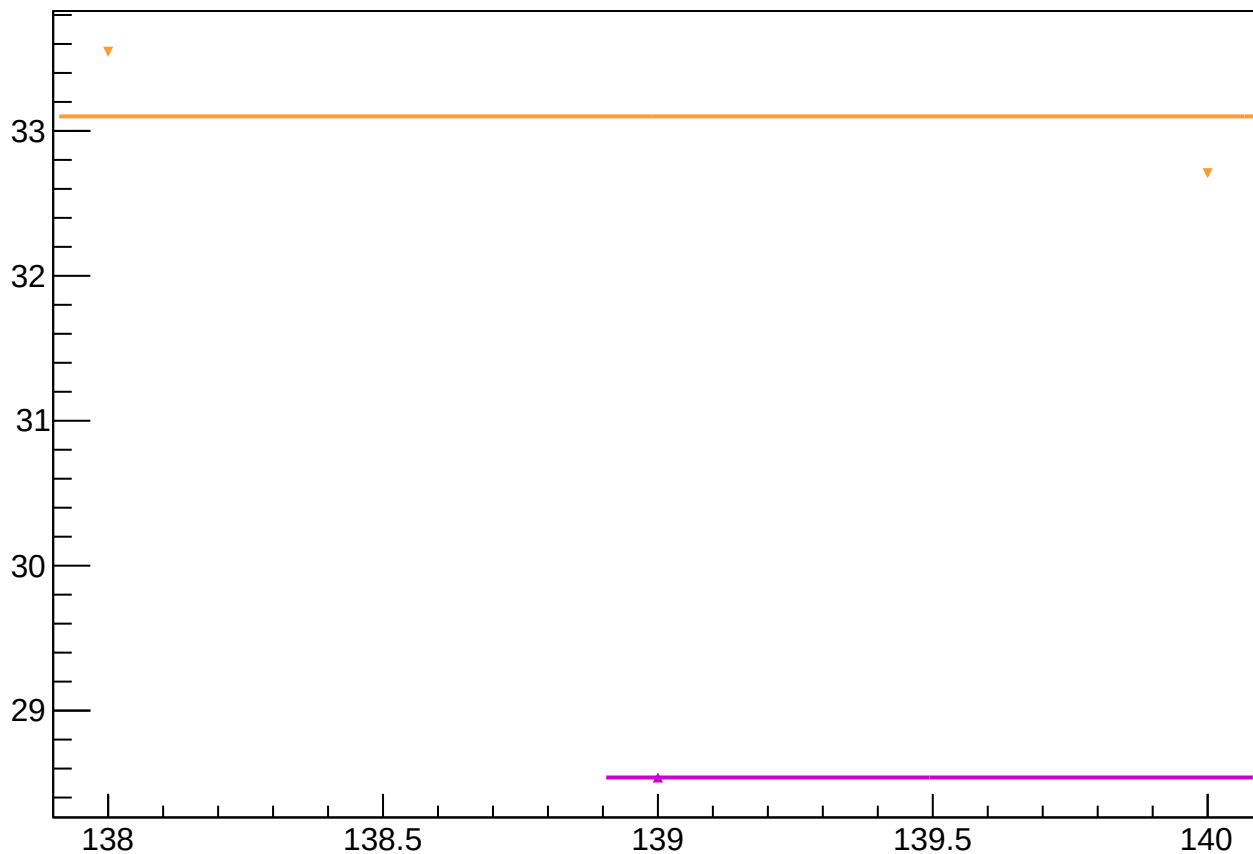
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -14.745+/-32.243  $\chi^2/\text{NDF}$ : 0.0/0

Out: -18.539+/-27.285  $\chi^2/\text{NDF}$ : 0.2/1

All: -16.955+/-20.828  $\chi^2/\text{NDF}$ : 0.2/2

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 33.100+/-0.019  $\chi^2/\text{NDF}$ : 469.7/1

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

Left In: 28.538+/-0.023  $\chi^2/\text{NDF}$ : 0.0/0

Left: 31.197+/-0.015  $\chi^2/\text{NDF}$ : 23798.0/2

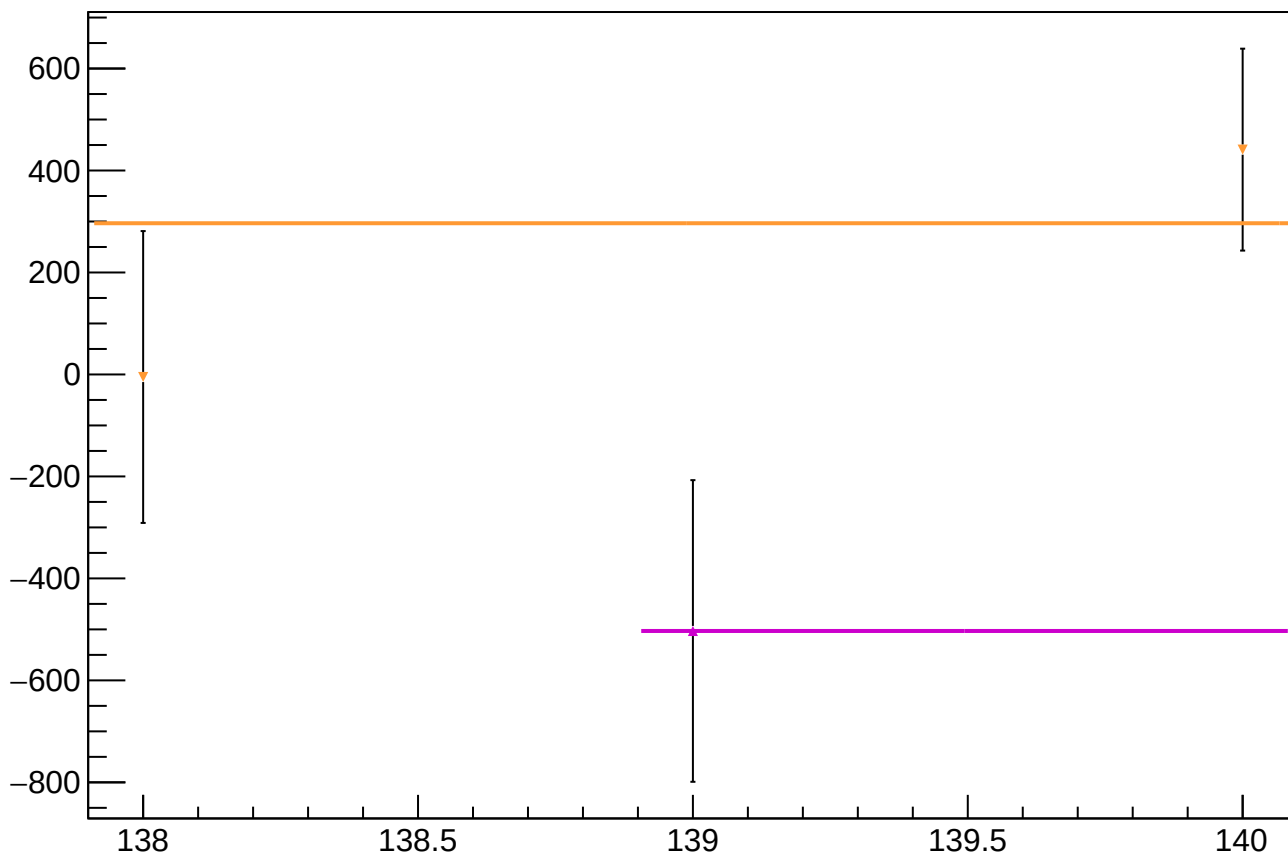
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 28.538+/-0.023  $\chi^2/\text{NDF}$ : 0.0/0

Out: 33.100+/-0.019  $\chi^2/\text{NDF}$ : 469.7/1

All: 31.197+/-0.015  $\chi^2/\text{NDF}$ : 23798.0/2

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: 296.583+/-162.838  $\chi^2/\text{NDF}$ : 1.6/1

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

Left In: -503.104+/-295.811  $\chi^2/\text{NDF}$ : 0.0/0

Left: 110.610+/-142.652  $\chi^2/\text{NDF}$ : 7.3/2

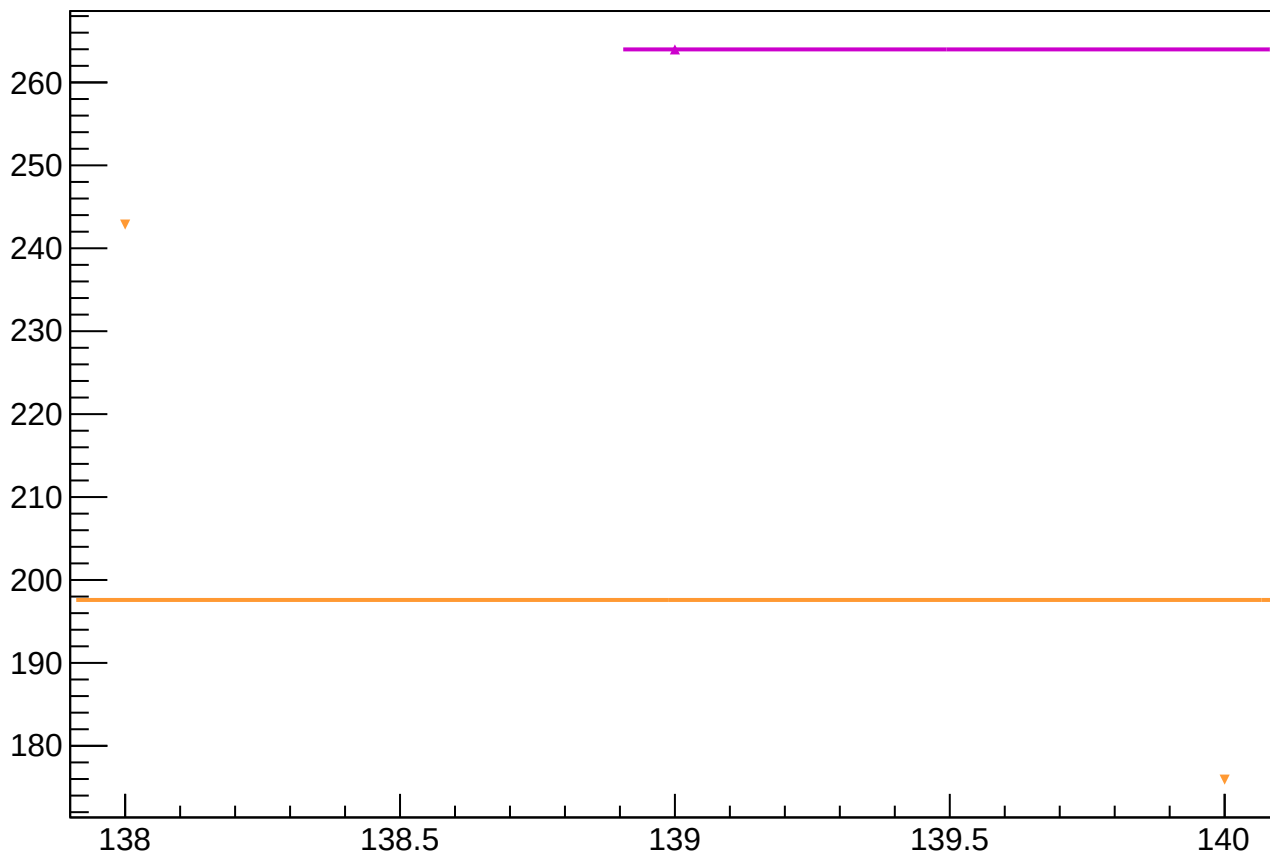
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -503.104+/-295.811  $\chi^2/\text{NDF}$ : 0.0/0

Out: 296.583+/-162.838  $\chi^2/\text{NDF}$ : 1.6/1

All: 110.610+/-142.652  $\chi^2/\text{NDF}$ : 7.3/2

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: 197.591+/-0.115  $\chi^2/\text{NDF}$ : 73978.3/1

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

Left In: 263.982+/-0.209  $\chi^2/\text{NDF}$ : 0.0/0

Left: 213.031+/-0.101  $\chi^2/\text{NDF}$ : 151292.3/2

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

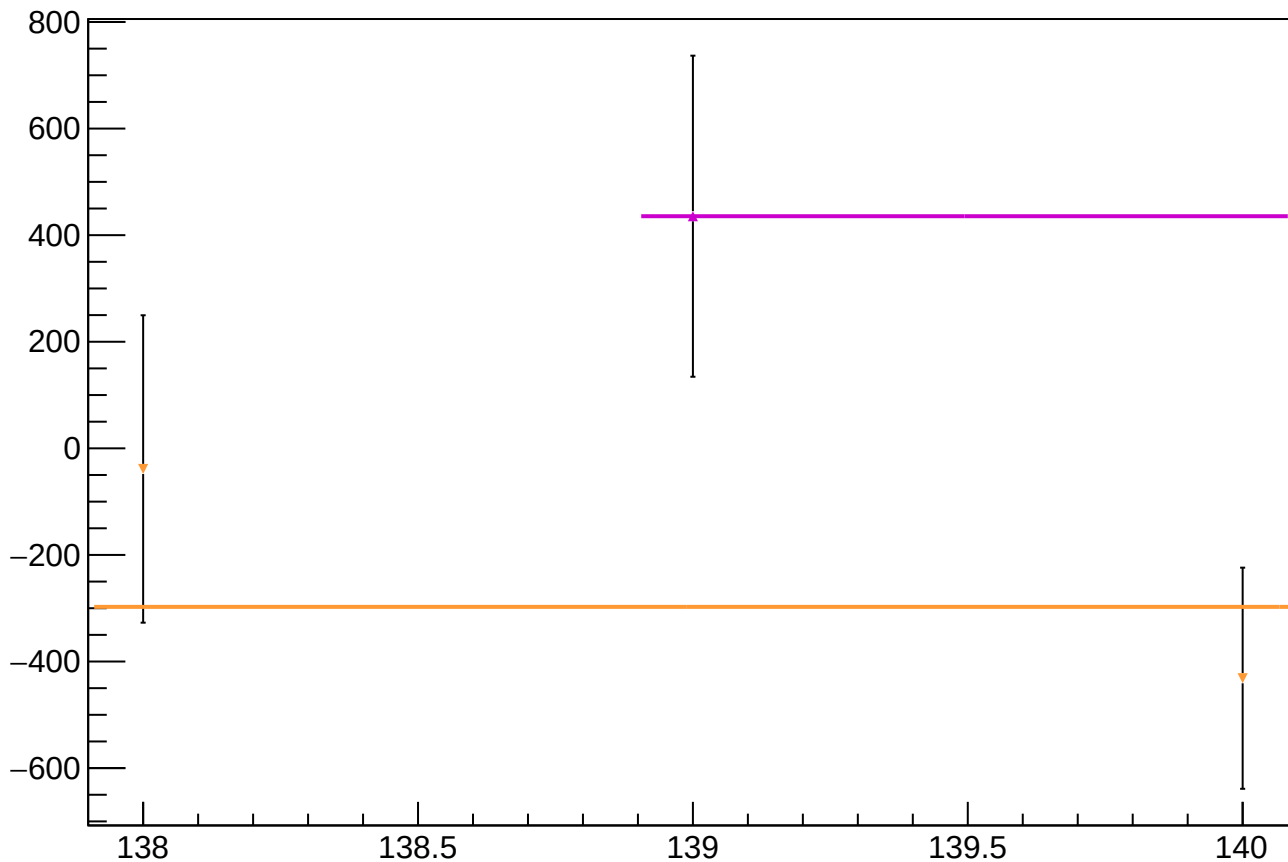
In: 263.982+/-0.209  $\chi^2/\text{NDF}$ : 0.0/0

Out: 197.591+/-0.115  $\chi^2/\text{NDF}$ : 73978.3/1

All: 213.031+/-0.101  $\chi^2/\text{NDF}$ : 151292.3/2



asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -297.454 $\pm$ 168.417  $\chi^2$ /NDF:1.2/1

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

Left In: 435.560 $\pm$ 301.235  $\chi^2$ /NDF:0.0/0

Left: -122.893 $\pm$ 147.002  $\chi^2$ /NDF: 5.7/2

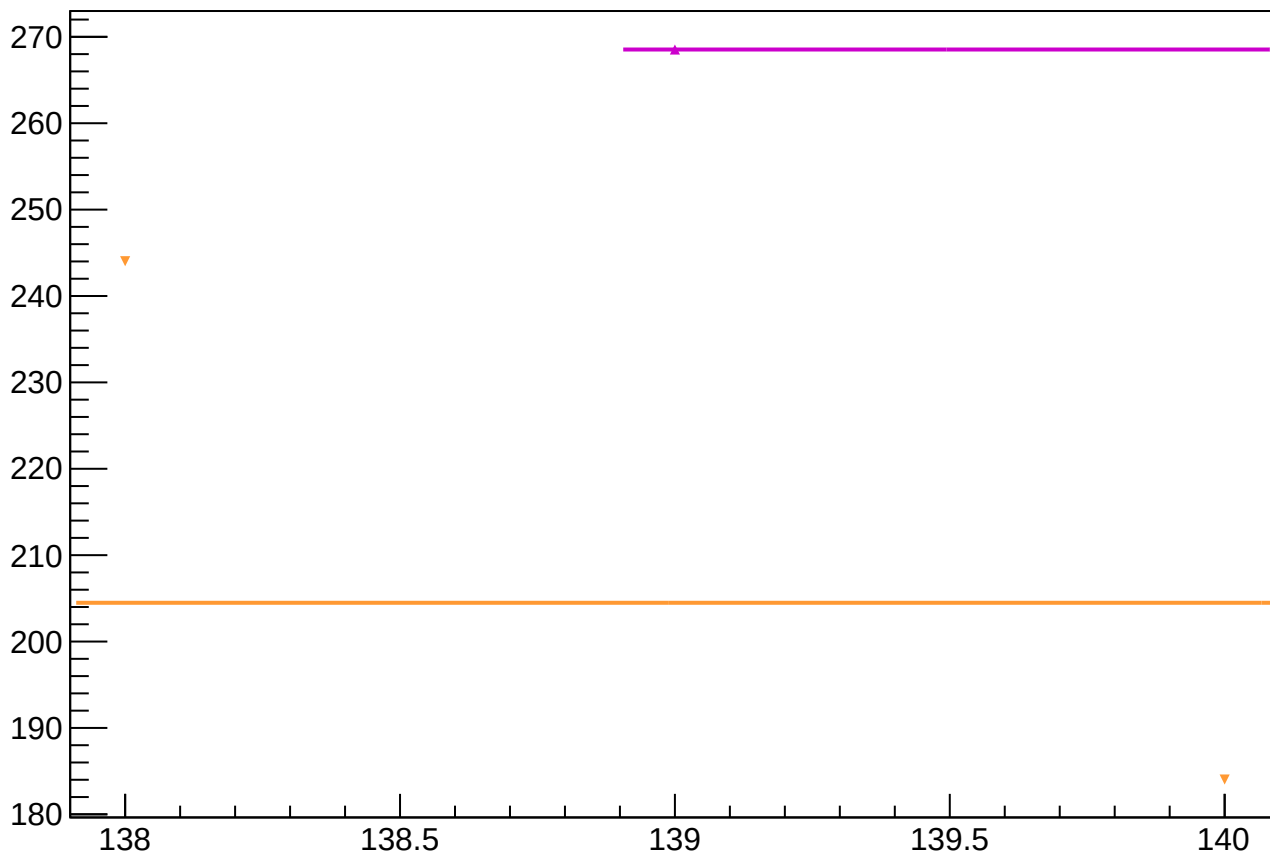
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 435.560 $\pm$ 301.235  $\chi^2$ /NDF:0.0/0

Out: -297.454 $\pm$ 168.417  $\chi^2$ /NDF:1.2/1

All: -122.893 $\pm$ 147.002  $\chi^2$ /NDF: 5.7/2

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: 204.488+/-0.119  $\chi^2/\text{NDF}$ : 57042.0/1

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

Left In: 268.534+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Left: 219.740+/-0.104  $\chi^2/\text{NDF}$ : 125919.3/2

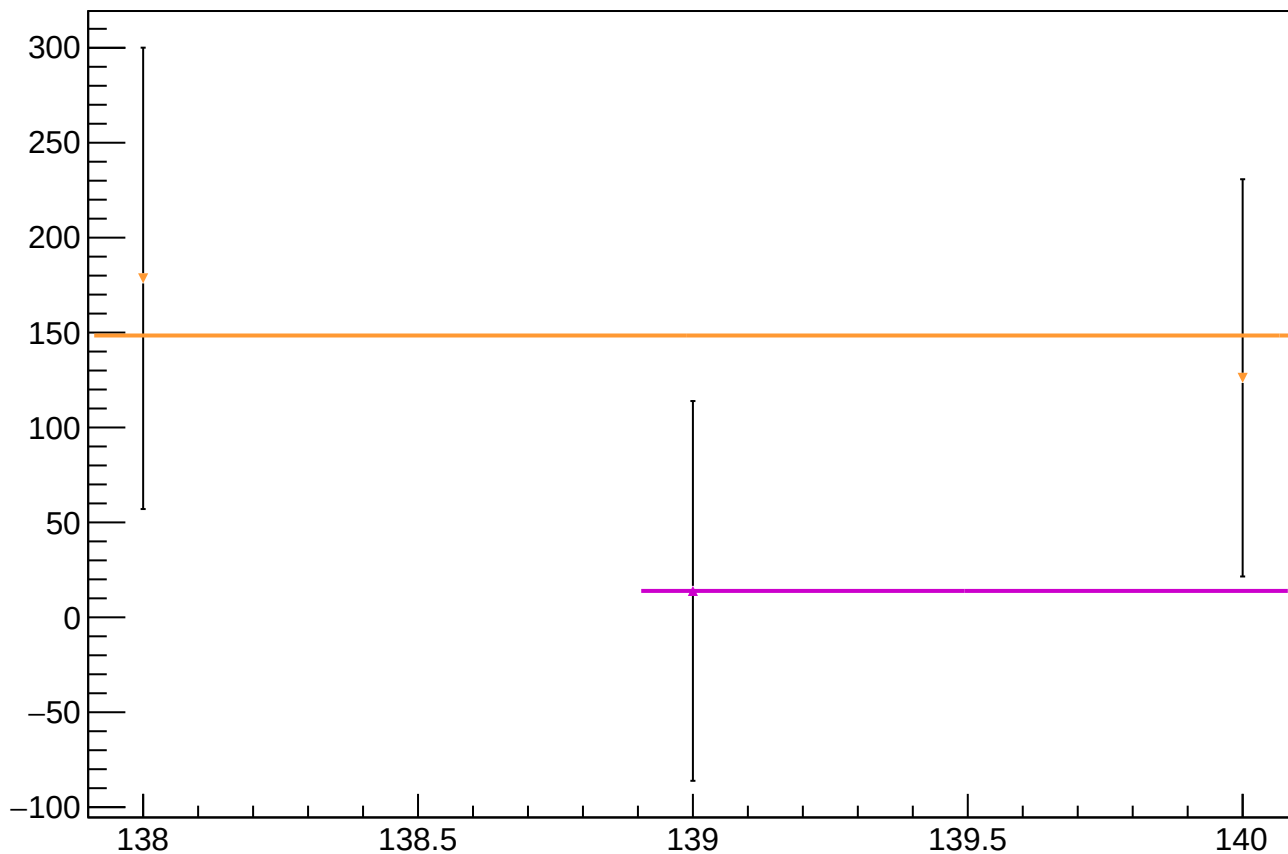
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 268.534+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Out: 204.488+/-0.119  $\chi^2/\text{NDF}$ : 57042.0/1

All: 219.740+/-0.104  $\chi^2/\text{NDF}$ : 125919.3/2

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 148.456+/-79.287  $\chi^2/\text{NDF}$ : 0.1/1

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

Left In: 13.911+/-100.020  $\chi^2/\text{NDF}$ : 0.0/0

Left: 96.536+/-62.133  $\chi^2/\text{NDF}$ : 1.2/2

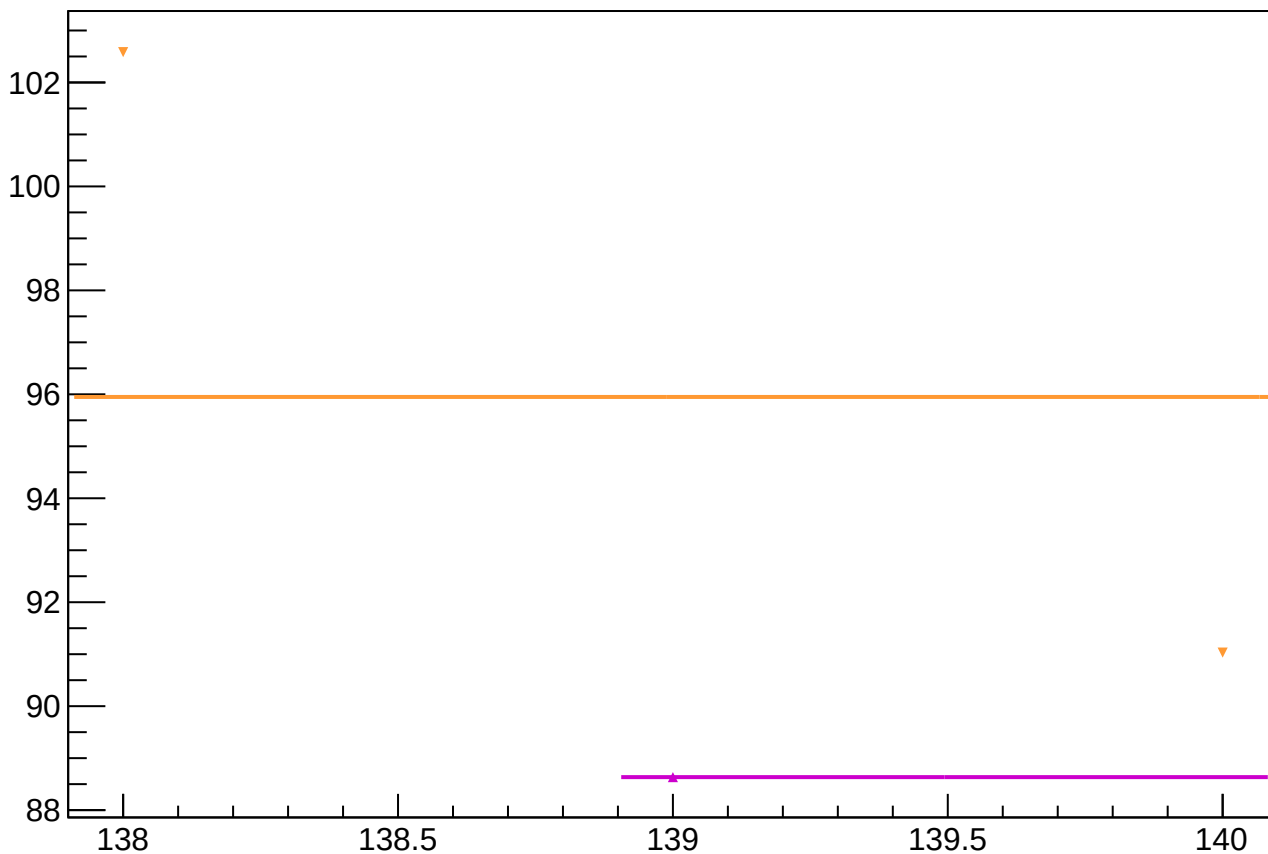
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 13.911+/-100.020  $\chi^2/\text{NDF}$ : 0.0/0

Out: 148.456+/-79.287  $\chi^2/\text{NDF}$ : 0.1/1

All: 96.536+/-62.133  $\chi^2/\text{NDF}$ : 1.2/2

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: 95.949+/-0.056  $\chi^2/\text{NDF}$ :10381.3/1

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

Left In: 88.635+/-0.071  $\chi^2/\text{NDF}$ :0.0/0

Left: 93.127+/-0.044  $\chi^2/\text{NDF}$ : 16949.6/2

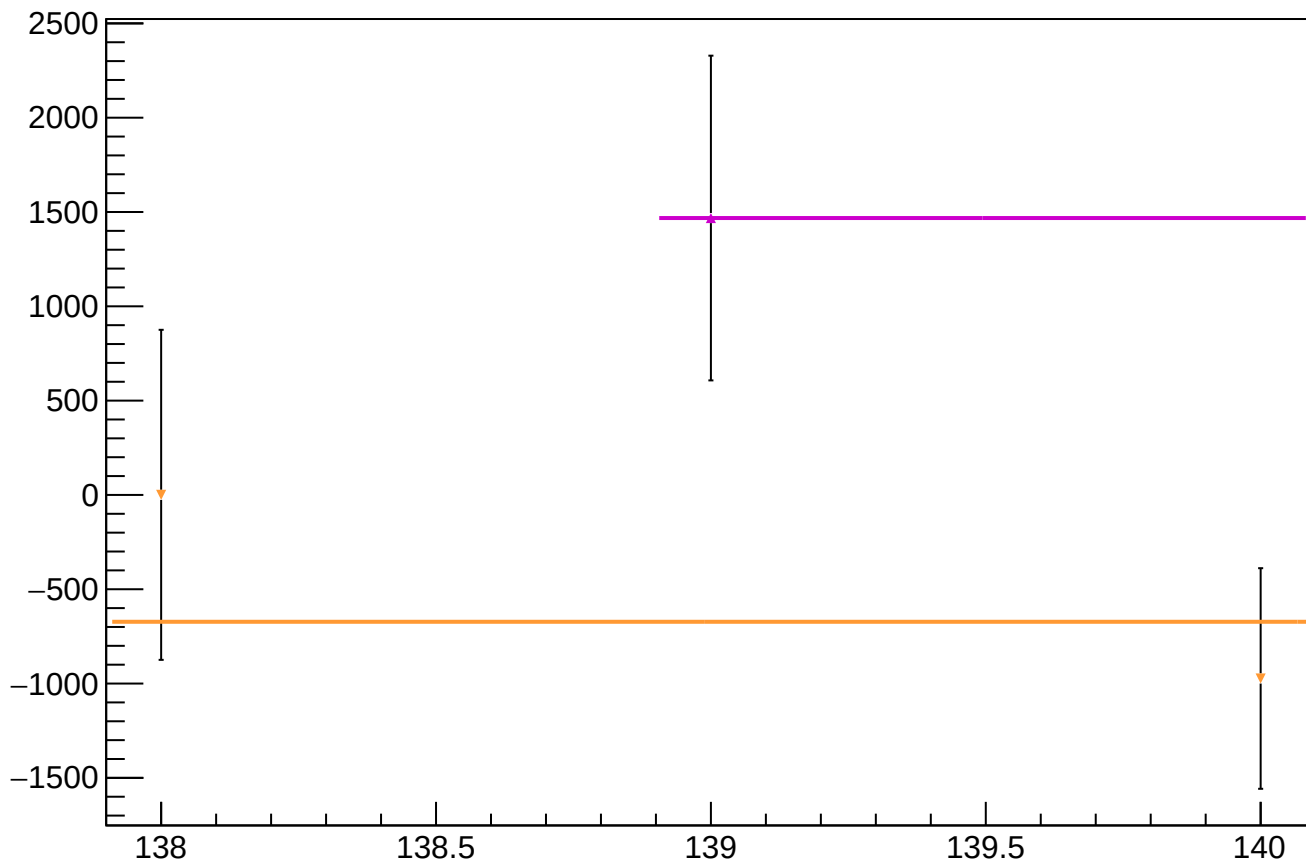
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 88.635+/-0.071  $\chi^2/\text{NDF}$ :0.0/0

Out: 95.949+/-0.056  $\chi^2/\text{NDF}$ :10381.3/1

All: 93.127+/-0.044  $\chi^2/\text{NDF}$ : 16949.6/2

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: -672.471+/-486.194  $\chi^2/\text{NDF}$ : 0.9/1

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

Left In: 1468.026+/-860.801  $\chi^2/\text{NDF}$ : 0.0/0

Left: -154.772+/-423.335  $\chi^2/\text{NDF}$ : 5.5/2

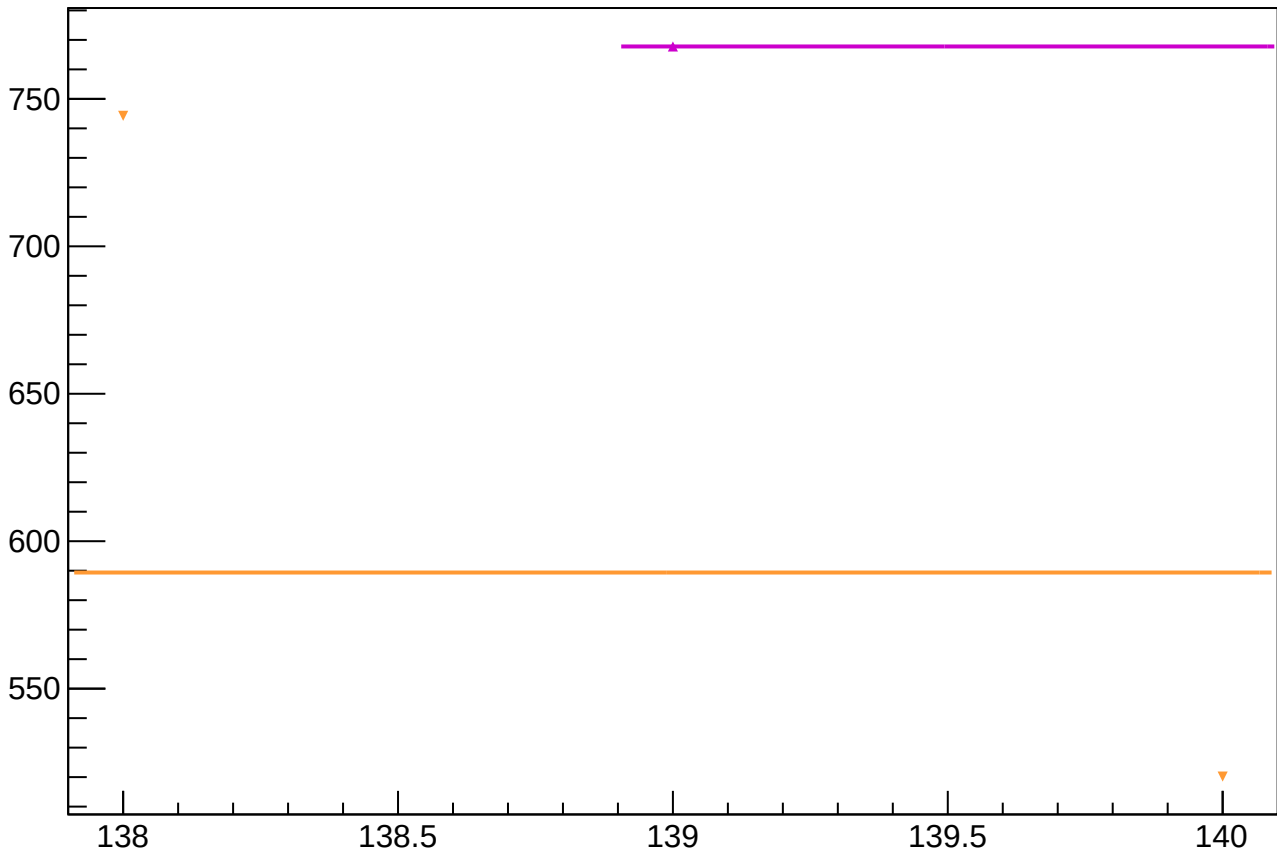
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1468.026+/-860.801  $\chi^2/\text{NDF}$ : 0.0/0

Out: -672.471+/-486.194  $\chi^2/\text{NDF}$ : 0.9/1

All: -154.772+/-423.335  $\chi^2/\text{NDF}$ : 5.5/2

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: 589.382+/-0.344  $\chi^2/\text{NDF}$ : 90676.3/1

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

Left In: 767.774+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Left: 632.528+/-0.299  $\chi^2/\text{NDF}$ : 155797.6/2

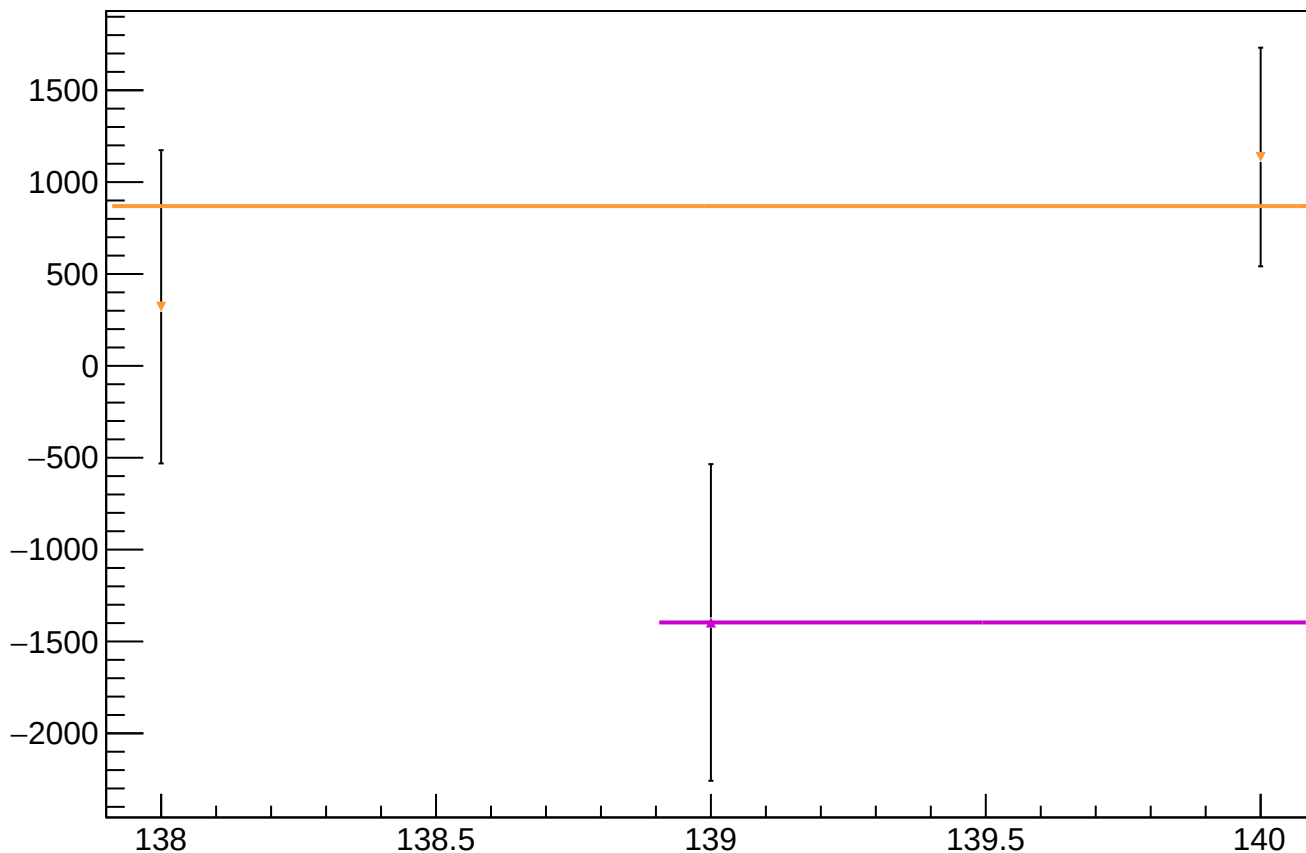
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 767.774+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 589.382+/-0.344  $\chi^2/\text{NDF}$ : 90676.3/1

All: 632.528+/-0.299  $\chi^2/\text{NDF}$ : 155797.6/2

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 869.608+/-487.929  $\chi^2/\text{NDF}$ : 0.6/1

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

Left In: -1396.501+/-861.762  $\chi^2/\text{NDF}$ : 0.0/0

Left: 319.493+/-424.594  $\chi^2/\text{NDF}$ : 5.9/2

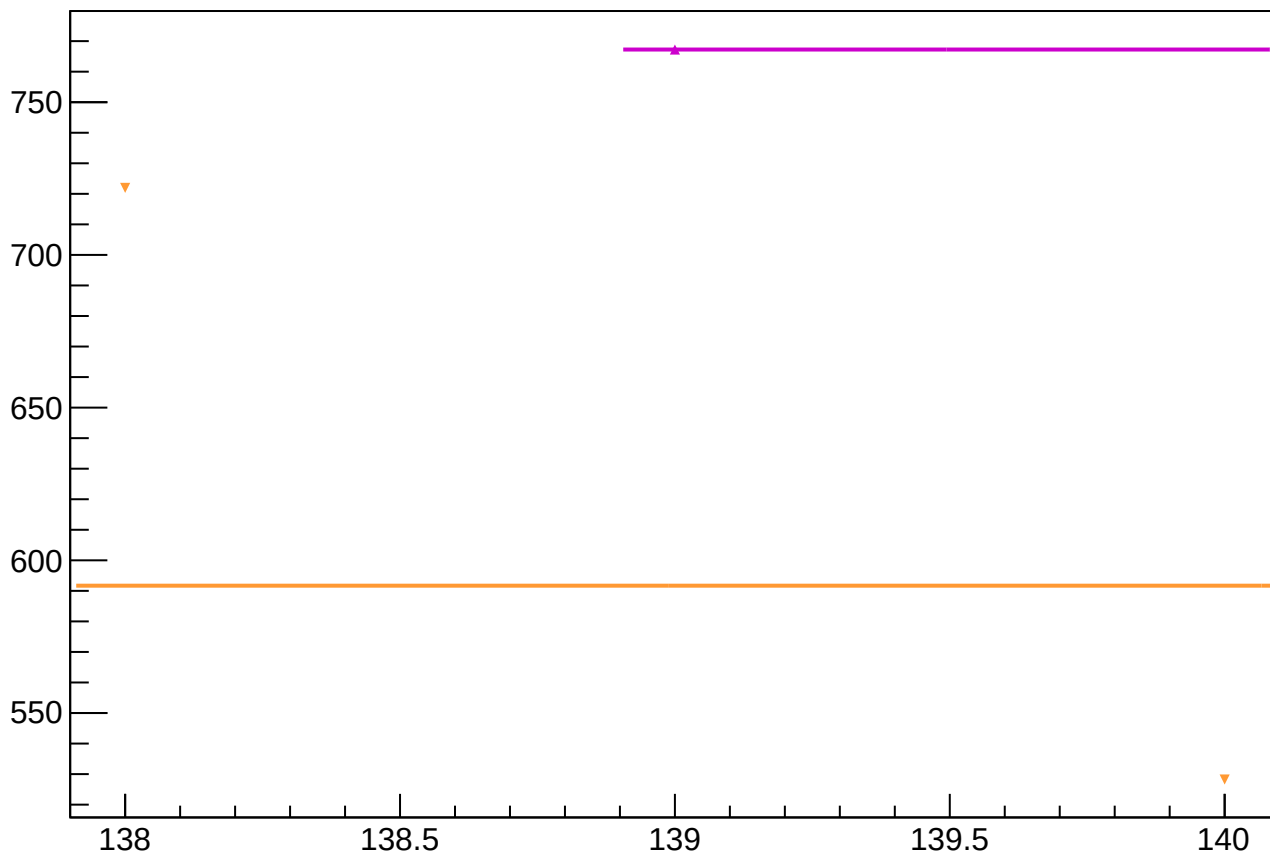
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1396.501+/-861.762  $\chi^2/\text{NDF}$ : 0.0/0

Out: 869.608+/-487.929  $\chi^2/\text{NDF}$ : 0.6/1

All: 319.493+/-424.594  $\chi^2/\text{NDF}$ : 5.9/2

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 591.696+/-0.345  $\chi^2/\text{NDF}$ : 69446.2/1

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

Left In: 767.248+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Left: 634.312+/-0.300  $\chi^2/\text{NDF}$ : 132296.3/2

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

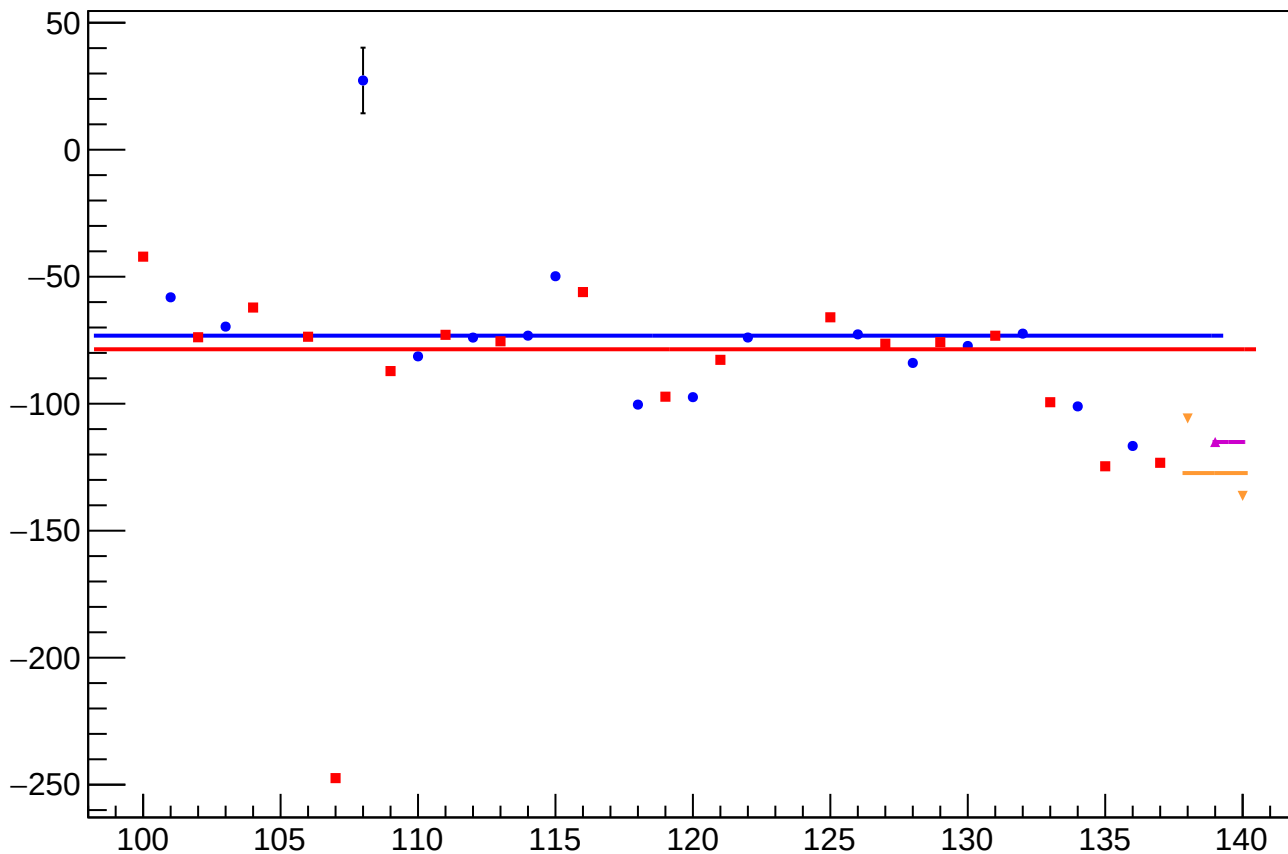
In: 767.248+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 591.696+/-0.345  $\chi^2/\text{NDF}$ : 69446.2/1

All: 634.312+/-0.300  $\chi^2/\text{NDF}$ : 132296.3/2



# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}: 127655.5/15$

Left Out:  $-127.307 \pm 0.242$   $\chi^2/\text{NDF}: 3305.8/1$

Right Out:  $-78.570 \pm 0.093$   $\chi^2/\text{NDF}: 52084.9/17$

Left In:  $-115.080 \pm 0.403$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-124.072 \pm 0.207$   $\chi^2/\text{NDF}: 3982.8/2$

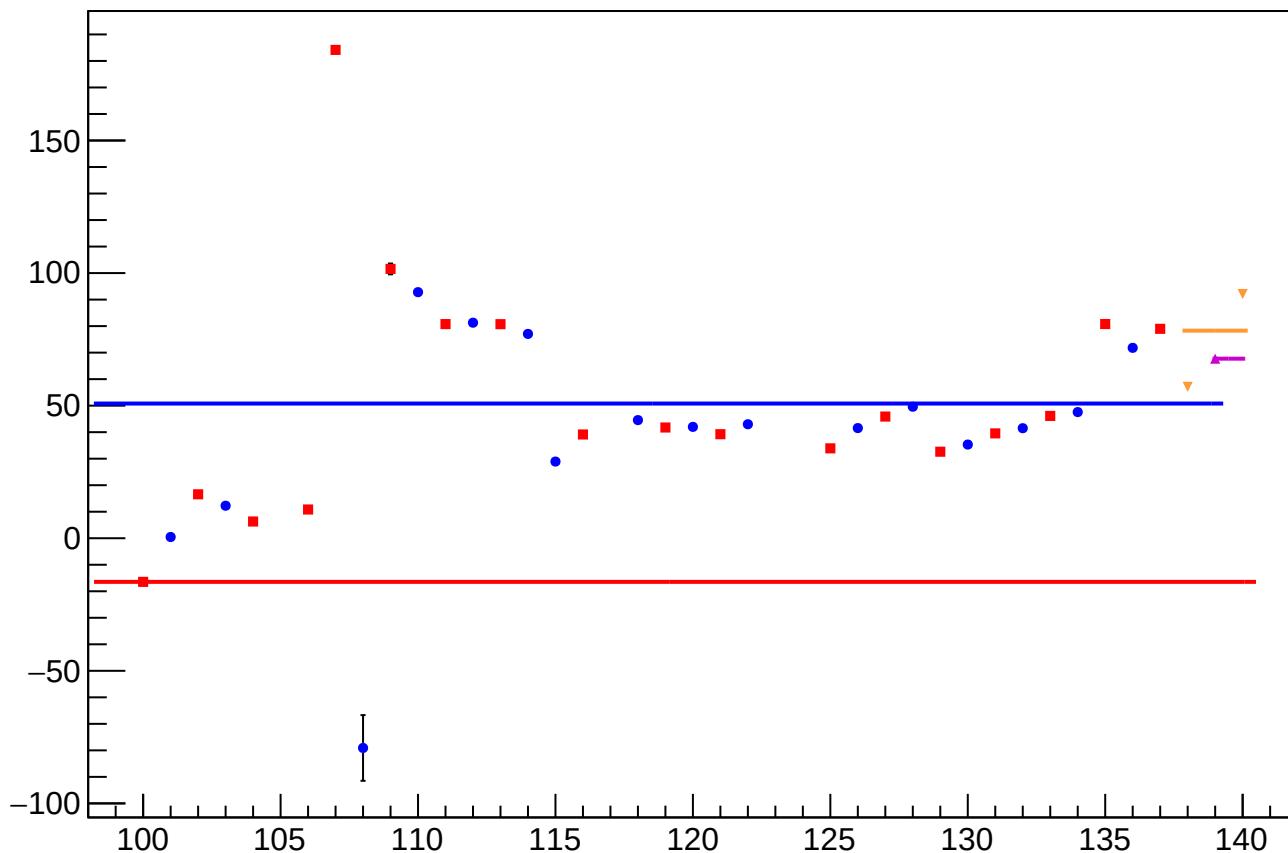
Right:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}: 183067.5/33$

In:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}: 138450.3/16$

Out:  $-84.846 \pm 0.087$   $\chi^2/\text{NDF}: 90806.8/19$

All:  $-73.209 \pm 0.000$   $\chi^2/\text{NDF}: 247252.8/36$

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In: 50.796+/-0.074  $\chi^2/\text{NDF}$ : 89943.6/15

Left Out: 78.290+/-0.239  $\chi^2/\text{NDF}$ : 5109.3/1

Right Out: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 455268.5/17

Left In: 67.722+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Left: 75.753+/-0.208  $\chi^2/\text{NDF}$ : 5578.3/2

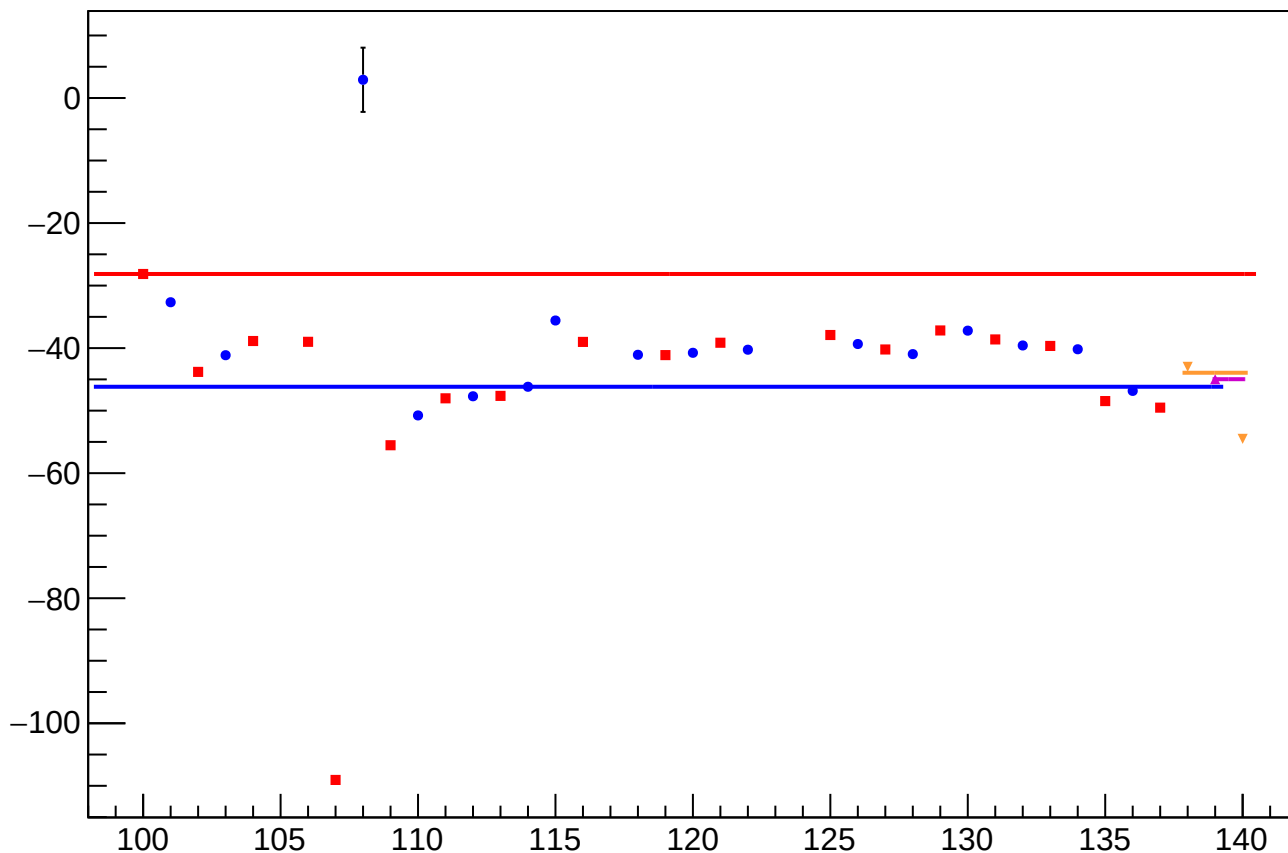
Right: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 1366073.0/33

In: 51.296+/-0.073  $\chi^2/\text{NDF}$ : 91480.0/16

Out: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 617373.1/19

All: -16.452+/-0.000  $\chi^2/\text{NDF}$ : 1567331.9/36

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In: -46.180+/-0.000  $\chi^2/\text{NDF}$ : 472878.7/15

Left Out: -43.939+/-0.023  $\chi^2/\text{NDF}$ :18469.5/1

Right Out: -28.144+/-0.000  $\chi^2/\text{NDF}$ : 717935.6/17

Left In: -44.971+/-0.112  $\chi^2/\text{NDF}$ :0.0/0

Left: -43.982+/-0.023  $\chi^2/\text{NDF}$ : 18550.4/2

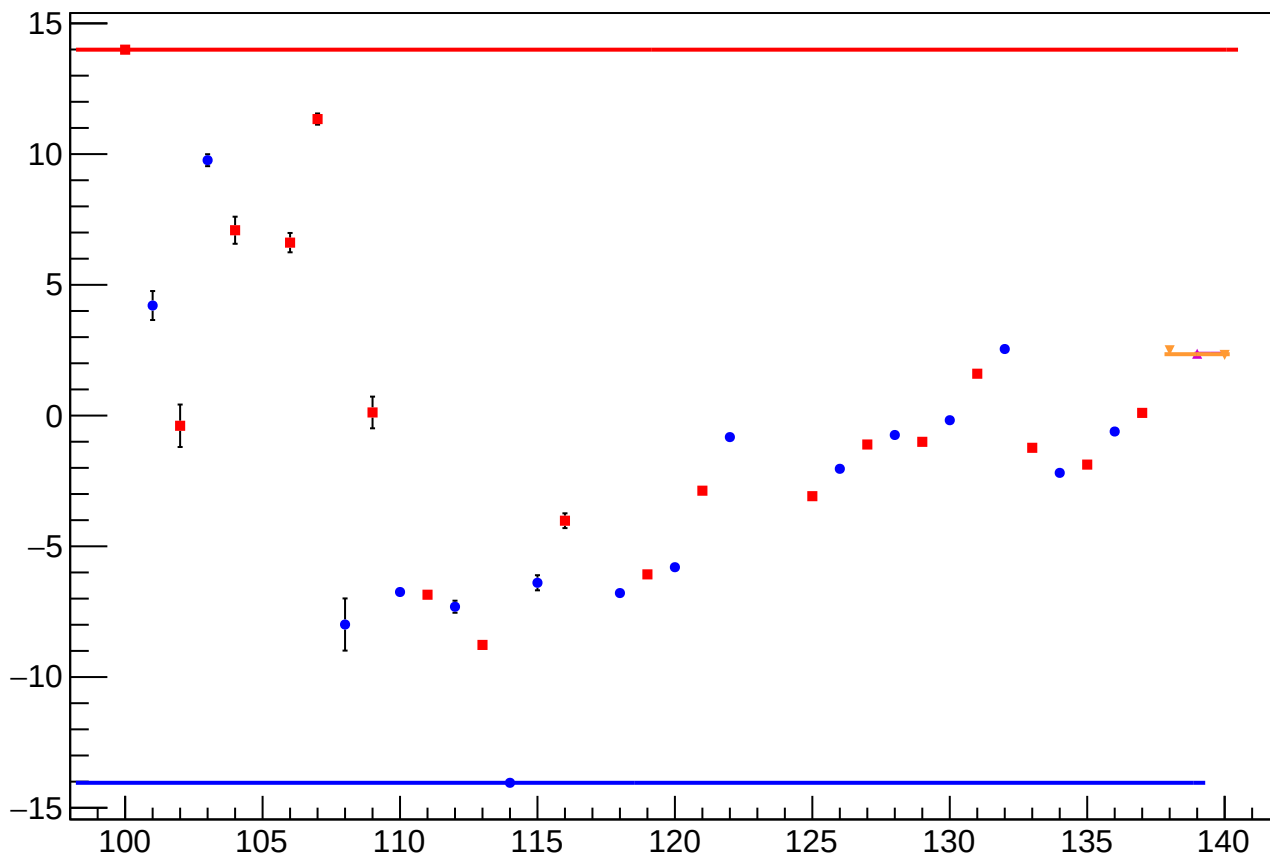
Right: -33.813+/-0.000  $\chi^2/\text{NDF}$ : 539977182263583

In: -46.180+/-0.000  $\chi^2/\text{NDF}$ :472994.8/16

Out: -28.144+/-0.000  $\chi^2/\text{NDF}$ :1197238.3/19

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:  $2.347 \pm 0.034$   $\chi^2/\text{NDF}: 3.7/1$

Right Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}: 389892.9/17$

Left In:  $2.366 \pm 0.046$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $2.354 \pm 0.027$   $\chi^2/\text{NDF}: 3.8/2$

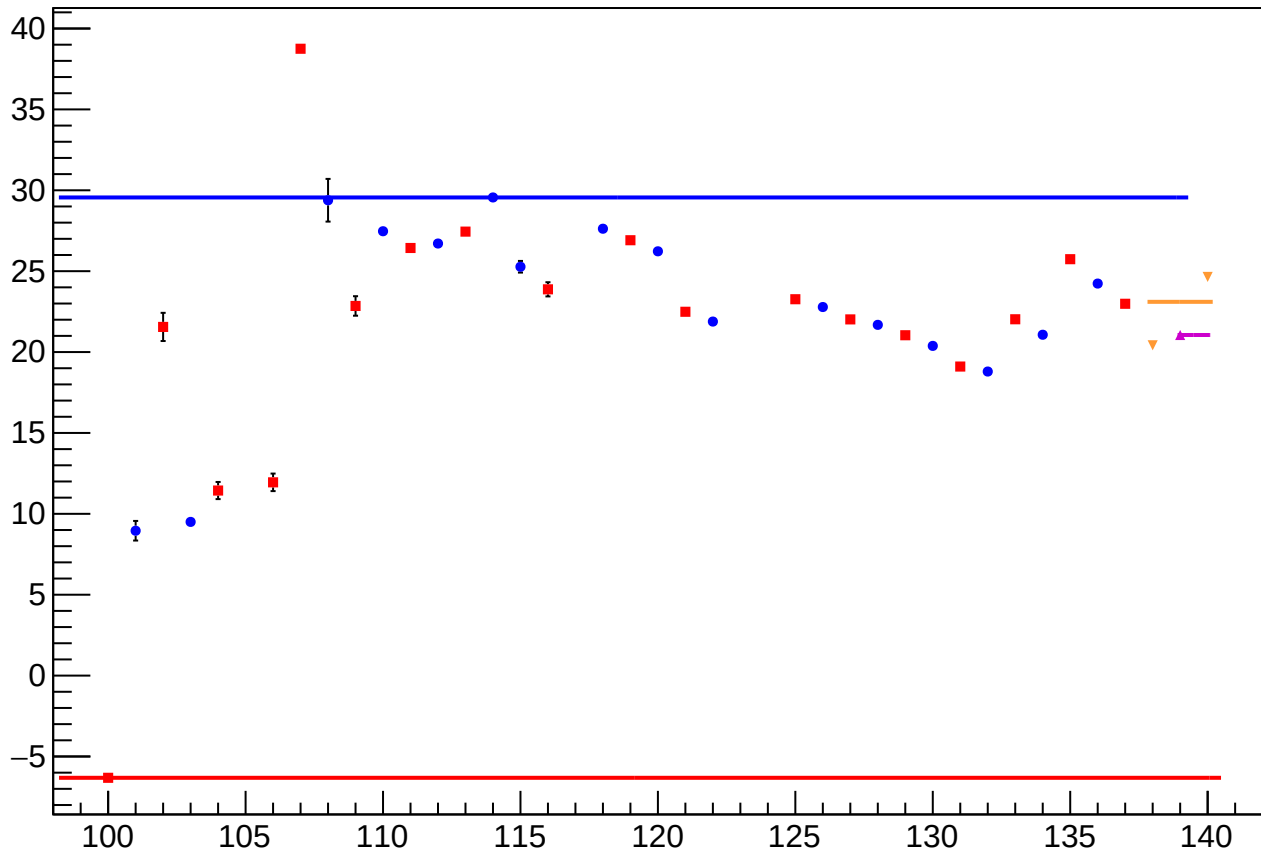
Right:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}: 46979633245184581$

In:  $-14.044 \pm 0.000$   $\chi^2/\text{NDF}: 885621.4/16$

Out:  $13.994 \pm 0.000$   $\chi^2/\text{NDF}: 508207.1/19$

All:  $5.182 \pm 0.000$   $\chi^2/\text{NDF}: 46979633245184$

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 29.557+/-0.000  $\chi^2/\text{NDF}$ : 88755.1/15

Left Out: 23.105+/-0.059  $\chi^2/\text{NDF}$ :1207.7/1

Right Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ : 1630502.4/17

Left In: 21.055+/-0.076  $\chi^2/\text{NDF}$ :0.0/0

Left: 22.337+/-0.046  $\chi^2/\text{NDF}$ : 1667.5/2

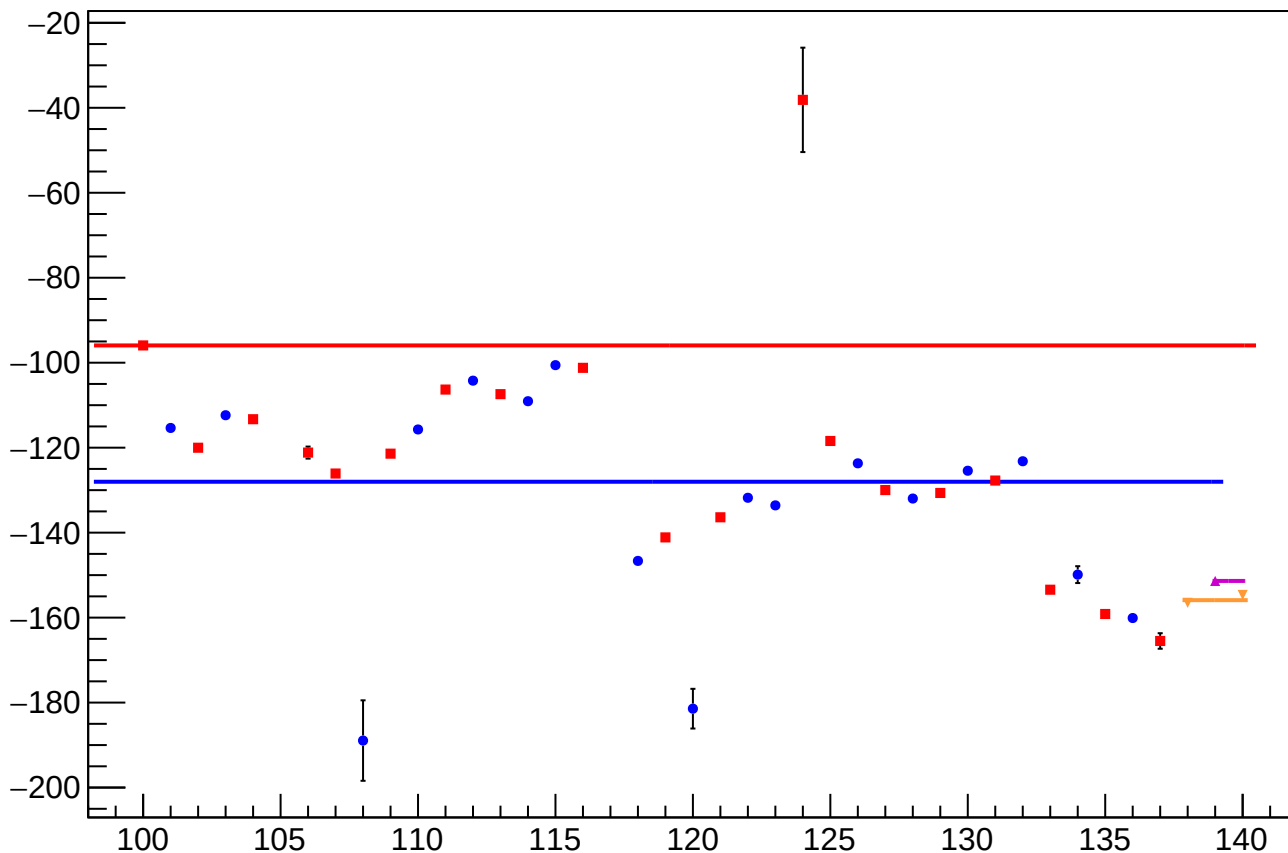
Right: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398160

In: 29.557+/-0.000  $\chi^2/\text{NDF}$ :101401.2/16

Out: -6.317+/-0.000  $\chi^2/\text{NDF}$ :1884380.5/19

All: -2.629+/-0.000  $\chi^2/\text{NDF}$ : 1006300357398

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-128.021 \pm 0.098$   $\chi^2/\text{NDF}$ : 38162.5/16

Left Out:  $-155.892 \pm 0.167$   $\chi^2/\text{NDF}$ : 27.3/1

Right Out:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 168284.2/18

Left In:  $-151.366 \pm 0.256$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-154.535 \pm 0.140$   $\chi^2/\text{NDF}$ : 246.5/2

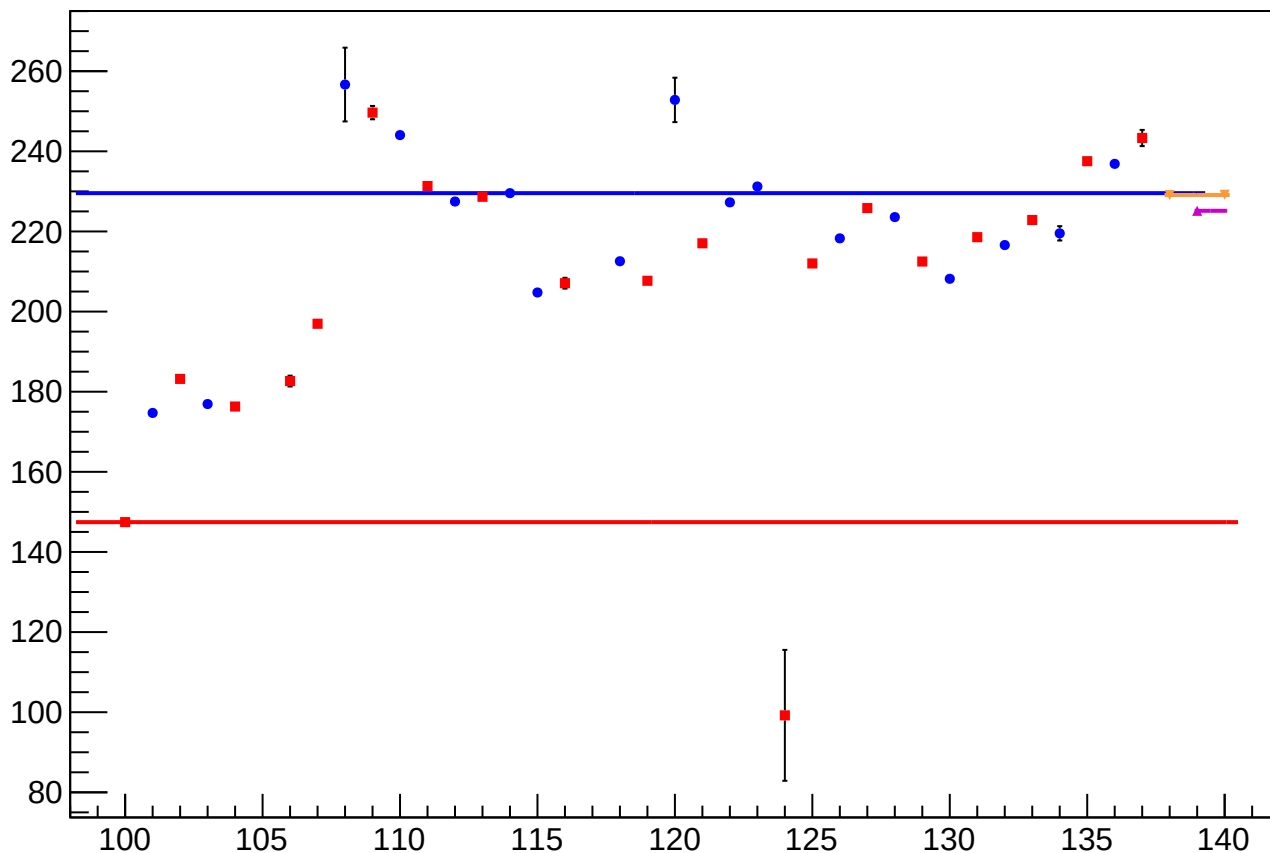
Right:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 313037.7/35

In:  $-131.024 \pm 0.092$   $\chi^2/\text{NDF}$ : 45420.2/17

Out:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 296596.0/20

All:  $-95.934 \pm 0.000$   $\chi^2/\text{NDF}$ : 488308.0/38

# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 229.560 $\pm$ 0.000  $\chi^2$ /NDF: 37813.1/16

Left Out: 229.099 $\pm$ 0.175  $\chi^2$ /NDF: 0.1/1

Right Out: 147.445 $\pm$ 0.000  $\chi^2$ /NDF: 546753.3/18

Left In: 225.153 $\pm$ 0.225  $\chi^2$ /NDF: 0.0/0

Left: 227.613 $\pm$ 0.138  $\chi^2$ /NDF: 191.5/2

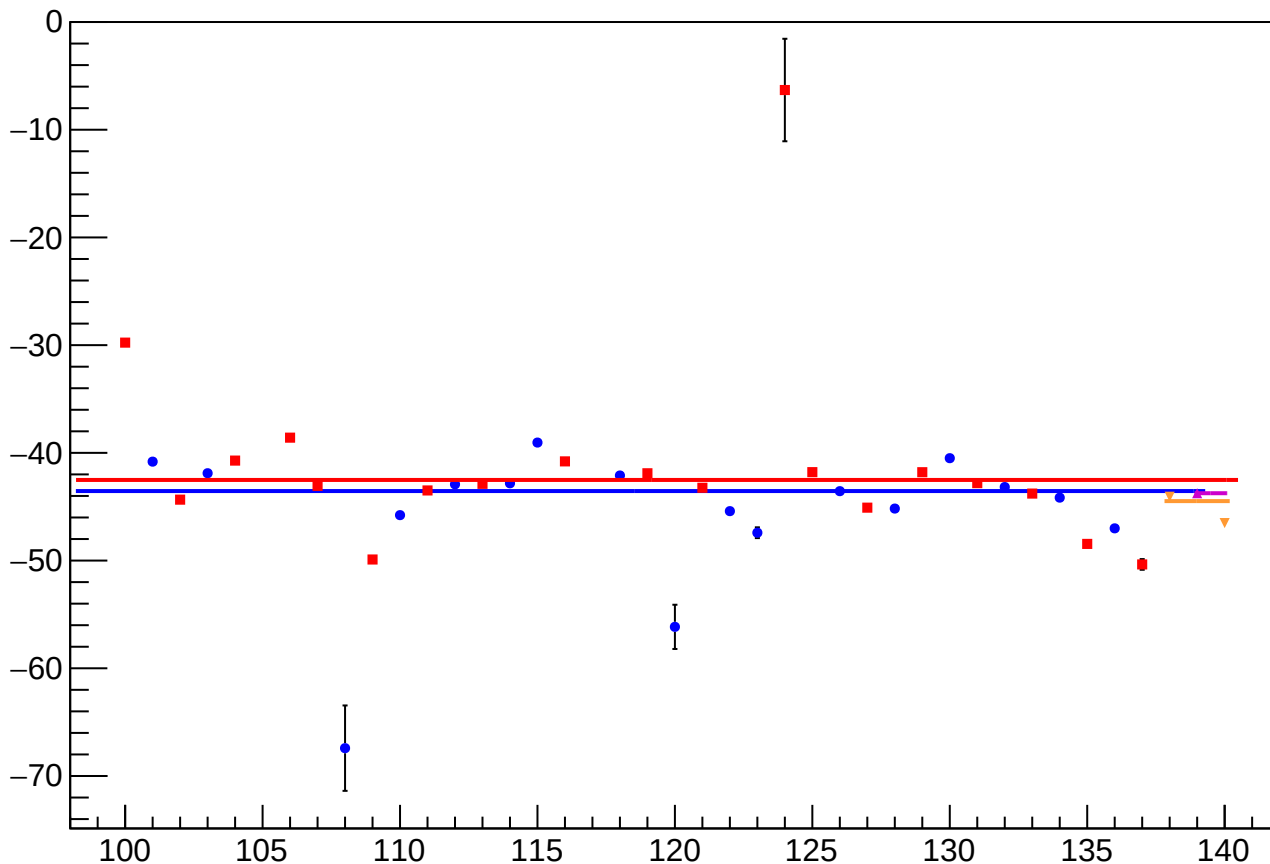
Right: 173.253 $\pm$ 0.000  $\chi^2$ /NDF: 157405034293311

In: 229.560 $\pm$ 0.000  $\chi^2$ /NDF: 38196.2/17

Out: 147.445 $\pm$ 0.000  $\chi^2$ /NDF: 764500.9/20

All: 173.253 $\pm$ 0.000  $\chi^2$ /NDF: 157405034293

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-43.546 \pm 0.023$   $\chi^2/\text{NDF}$ : 12997.3/16

Left Out:  $-44.479 \pm 0.023$   $\chi^2/\text{NDF}$ : 1626.8/1

Right Out:  $-42.515 \pm 0.021$   $\chi^2/\text{NDF}$ : 7216.9/18

Left In:  $-43.747 \pm 0.027$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-44.178 \pm 0.017$   $\chi^2/\text{NDF}$ : 2059.6/2

Right:  $-42.980 \pm 0.015$   $\chi^2/\text{NDF}$ : 21321.7/35

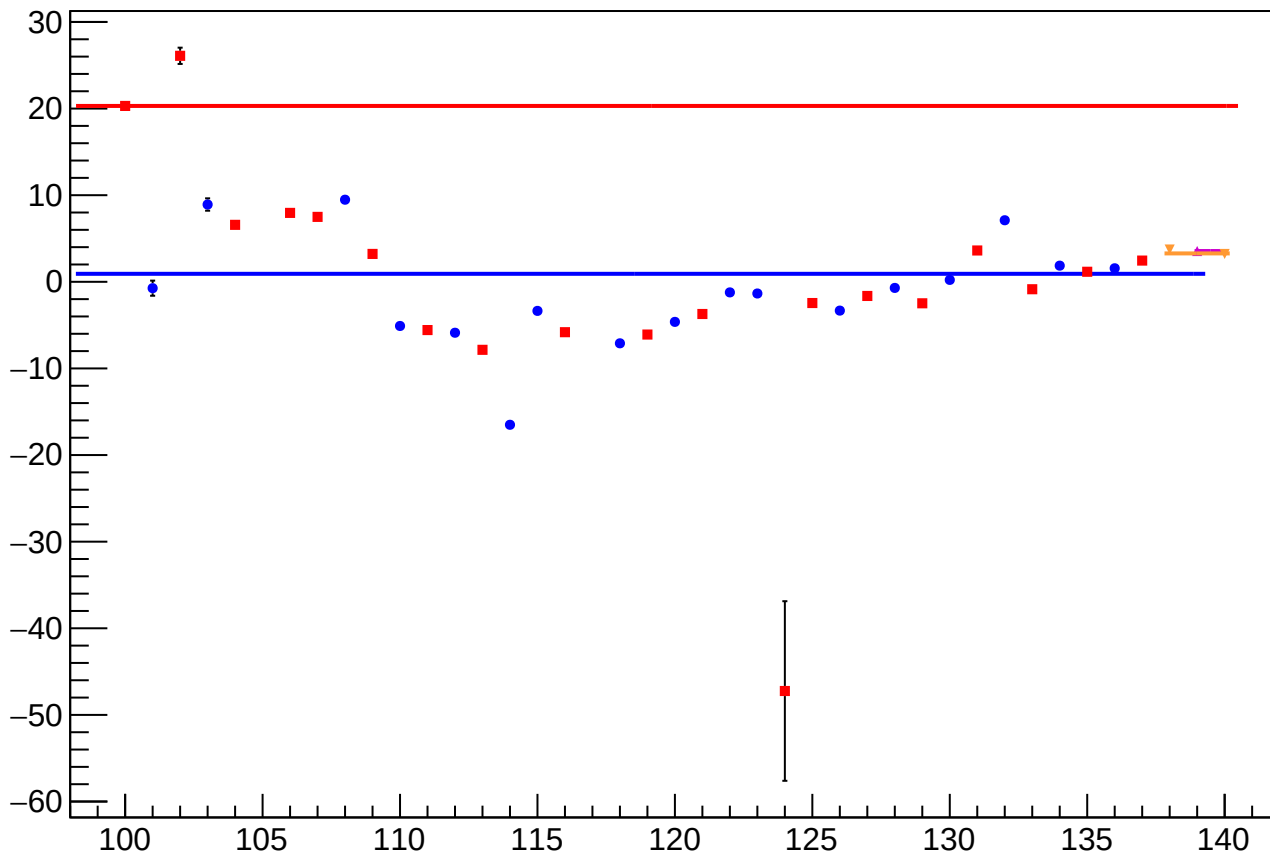
In:  $-43.630 \pm 0.018$   $\chi^2/\text{NDF}$ : 13029.3/17

Out:  $-43.417 \pm 0.015$   $\chi^2/\text{NDF}$ : 12938.4/20

All:  $-43.510 \pm 0.012$   $\chi^2/\text{NDF}$ : 26051.4/38



# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.923+/-0.020  $\chi^2/\text{NDF}$ : 21353.5/16

Left Out: 3.278+/-0.028  $\chi^2/\text{NDF}$ :36.3/1

Right Out: 20.304+/-0.000  $\chi^2/\text{NDF}$ : 918407.4/18

Left In: 3.553+/-0.056  $\chi^2/\text{NDF}$ :0.0/0

Left: 3.334+/-0.025  $\chi^2/\text{NDF}$ : 55.7/2

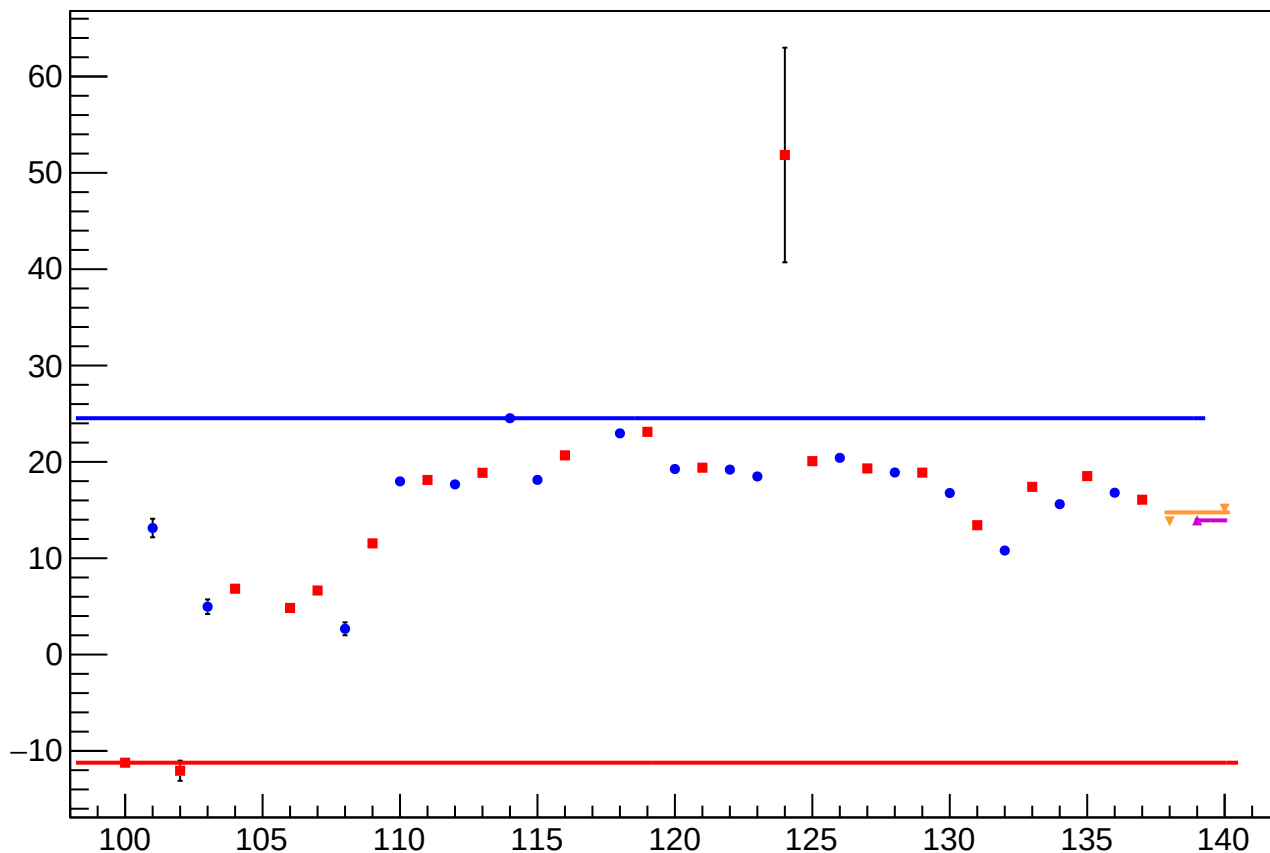
Right: 20.304+/-0.000  $\chi^2/\text{NDF}$ : 1860705.2/35

In: 1.228+/-0.019  $\chi^2/\text{NDF}$ :23318.7/17

Out: 20.304+/-0.000  $\chi^2/\text{NDF}$ :1287615.6/20

All: 20.304+/-0.000  $\chi^2/\text{NDF}$ : 2320094.0/38

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.533+/-0.000  $\chi^2/\text{NDF}$ : 119839.5/16

Left Out: 14.755+/-0.038  $\chi^2/\text{NDF}$ : 243.5/1

Right Out: -11.224+/-0.000  $\chi^2/\text{NDF}$ : 2204048.4/18

Left In: 13.930+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

Left: 14.434+/-0.030  $\chi^2/\text{NDF}$ : 424.3/2

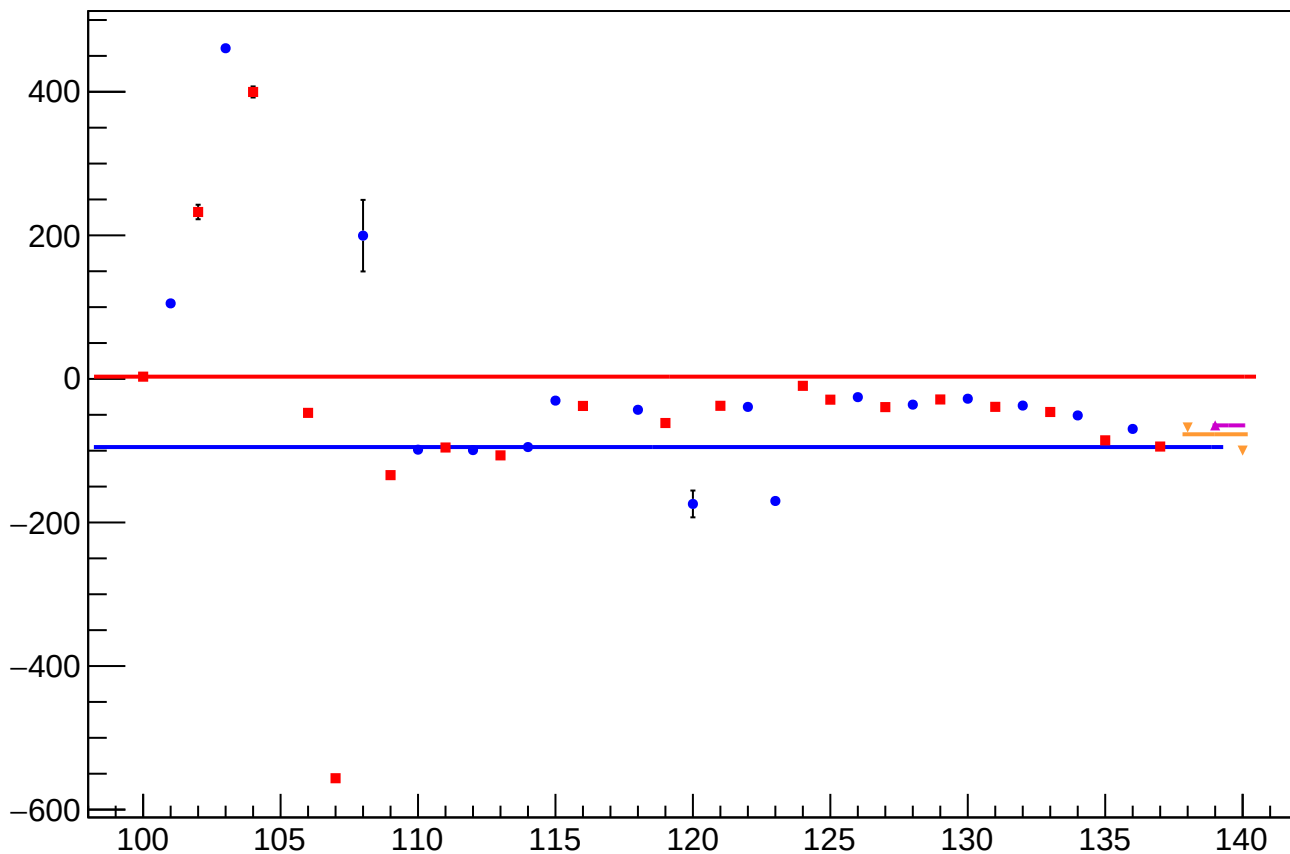
Right: -7.548+/-0.000  $\chi^2/\text{NDF}$ : 2499340702901629

In: 24.533+/-0.000  $\chi^2/\text{NDF}$ : 168715.8/17

Out: -11.224+/-0.000  $\chi^2/\text{NDF}$ : 2664881.1/20

All: -7.548+/-0.000  $\chi^2/\text{NDF}$ : 2499340702901

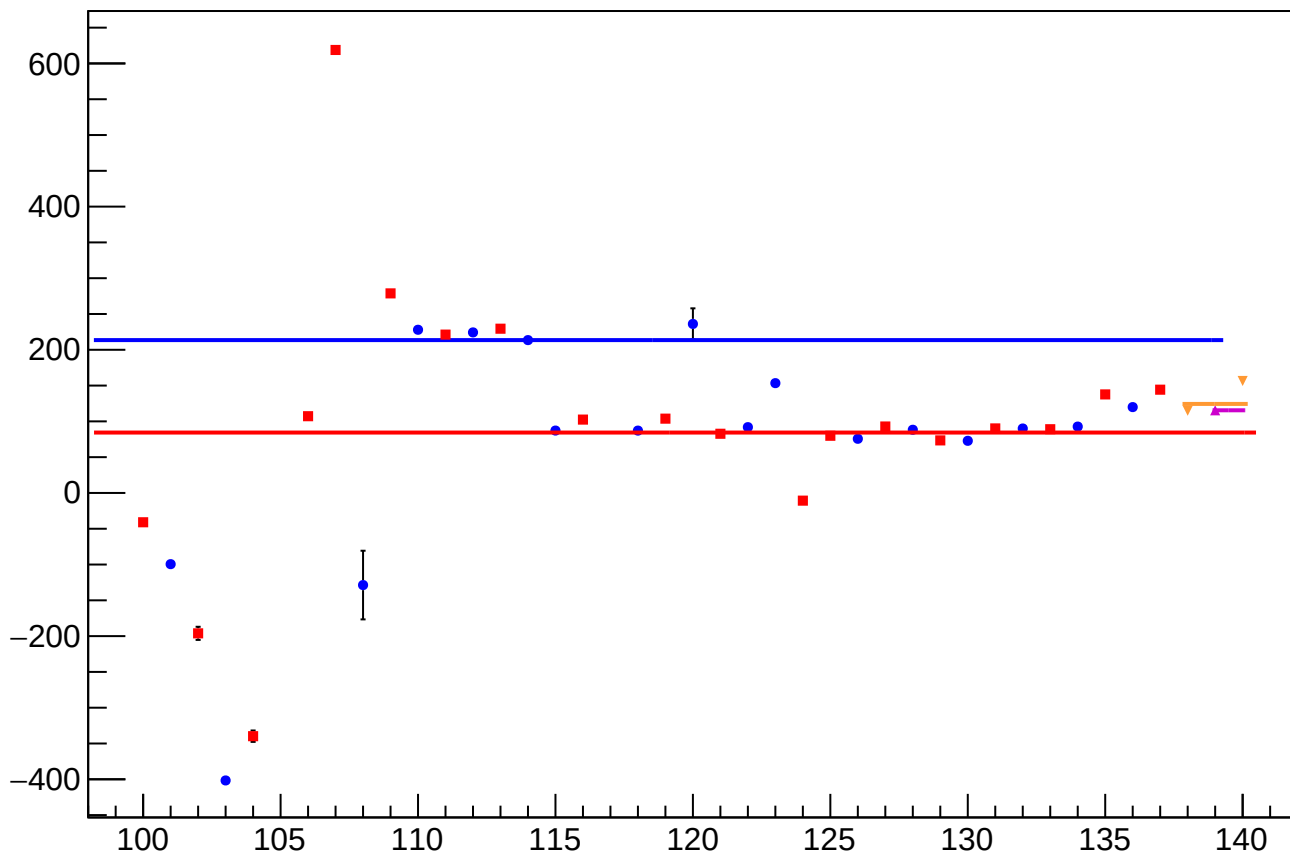
# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-94.927 \pm 0.000$   $\chi^2/\text{NDF}: 718777.6/16$   
 Left Out:  $-77.130 \pm 0.296$   $\chi^2/\text{NDF}: 2457.5/1$   
 Right Out:  $3.148 \pm 0.000$   $\chi^2/\text{NDF}: 61196784.3/18$   
 Left In:  $-64.739 \pm 0.684$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-75.174 \pm 0.272$   $\chi^2/\text{NDF}: 2733.5/2$   
 Right:  $2.973 \pm 0.000$   $\chi^2/\text{NDF}: 52299232074263321$   
 In:  $-94.927 \pm 0.000$   $\chi^2/\text{NDF}: 720723.5/17$   
 Out:  $3.148 \pm 0.000$   $\chi^2/\text{NDF}: 61272633.5/20$   
 All:  $2.973 \pm 0.000$   $\chi^2/\text{NDF}: 52299232074263$

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In: 213.523+/-0.000  $\chi^2/\text{NDF}$ : 2690617.8/16

Left Out: 124.370+/-0.272  $\chi^2/\text{NDF}$ : 4121.9/1

Right Out: 84.377+/-0.176  $\chi^2/\text{NDF}$ : 227868.3/18

Left In: 115.470+/-0.697  $\chi^2/\text{NDF}$ : 0.0/0

Left: 123.194+/-0.253  $\chi^2/\text{NDF}$ : 4263.5/2

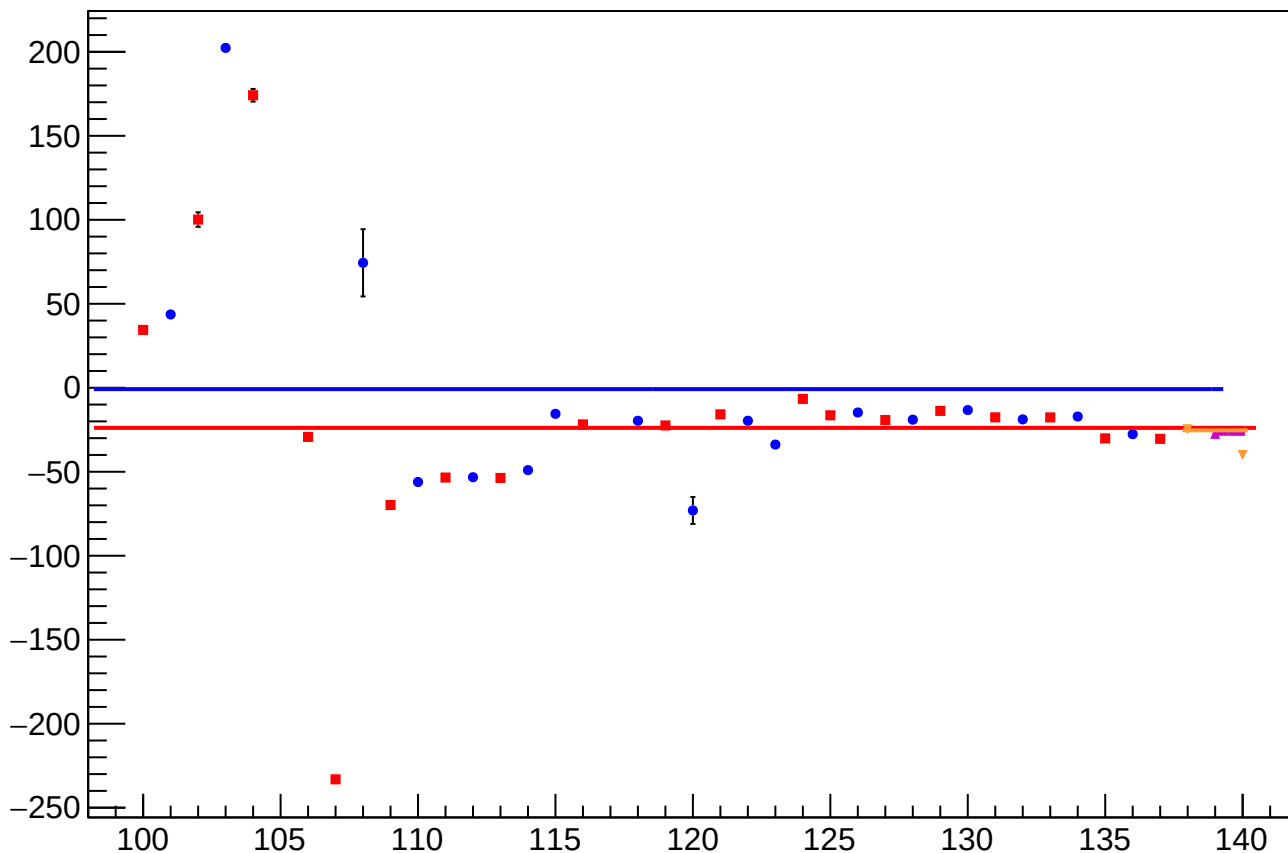
Right: 213.523+/-0.000  $\chi^2/\text{NDF}$ : 3455404.0/35

In: 213.523+/-0.000  $\chi^2/\text{NDF}$ : 2710427.2/17

Out: 96.211+/-0.148  $\chi^2/\text{NDF}$ : 247224.9/20

All: 213.523+/-0.000  $\chi^2/\text{NDF}$ : 3586857.8/38

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-0.799 \pm 0.031$   $\chi^2/\text{NDF}$ : 2816818.1/16

Left Out:  $-25.342 \pm 0.025$   $\chi^2/\text{NDF}$ : 14987.3/1

Right Out:  $-23.861 \pm 0.044$   $\chi^2/\text{NDF}$ : 200002.4/18

Left In:  $-27.401 \pm 0.144$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-25.402 \pm 0.025$   $\chi^2/\text{NDF}$ : 15184.8/2

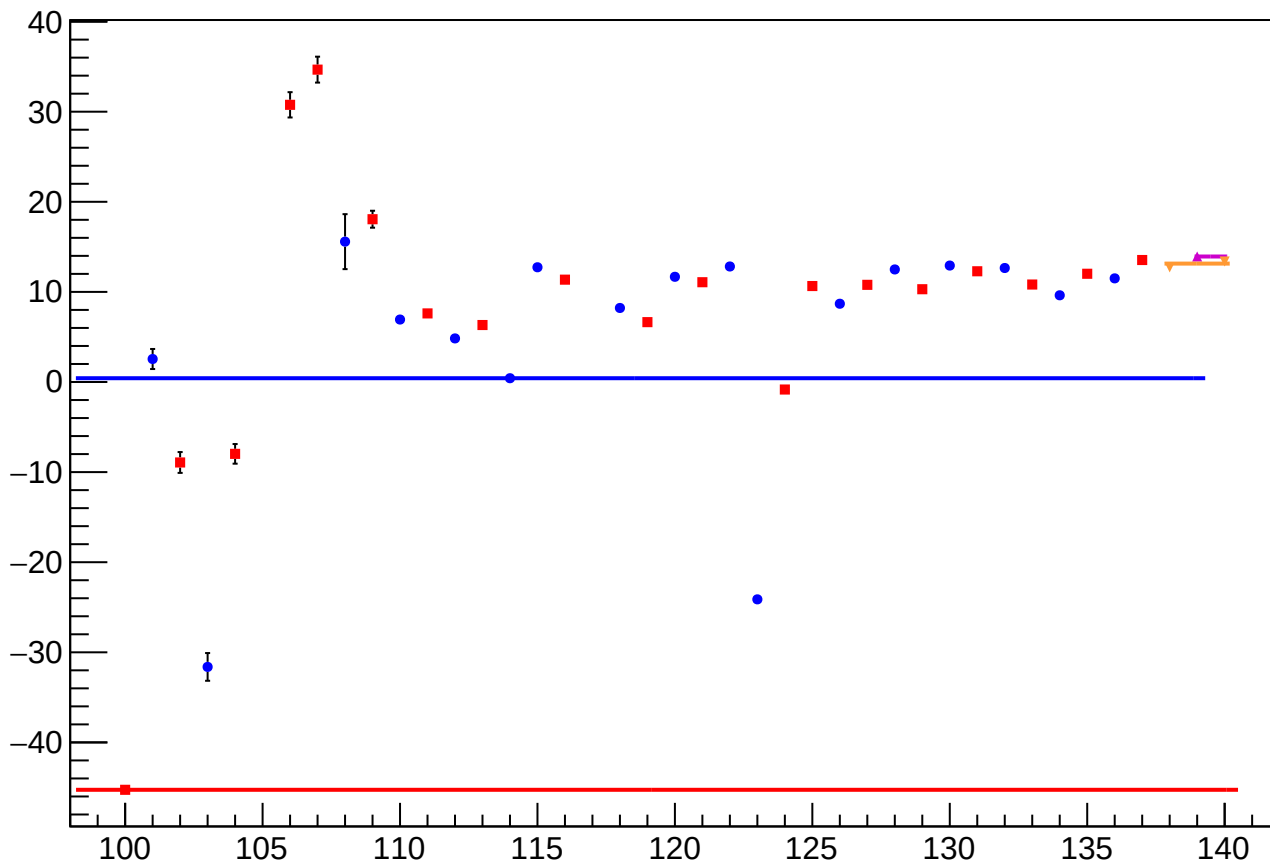
Right:  $-8.664 \pm 0.025$   $\chi^2/\text{NDF}$ : 3201437.1/35

In:  $-1.996 \pm 0.031$   $\chi^2/\text{NDF}$ : 2849240.7/17

Out:  $-24.972 \pm 0.022$   $\chi^2/\text{NDF}$ : 215856.0/20

All:  $-17.258 \pm 0.018$   $\chi^2/\text{NDF}$ : 3438783.3/38

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.420+/-0.000  $\chi^2/\text{NDF}$ : 84744.6/16

Left Out: 13.141+/-0.054  $\chi^2/\text{NDF}$ :32.9/1

Right Out: -45.259+/-0.000  $\chi^2/\text{NDF}$ : 1298633.3/18

Left In: 13.928+/-0.078  $\chi^2/\text{NDF}$ :0.0/0

Left: 13.399+/-0.045  $\chi^2/\text{NDF}$ : 101.1/2

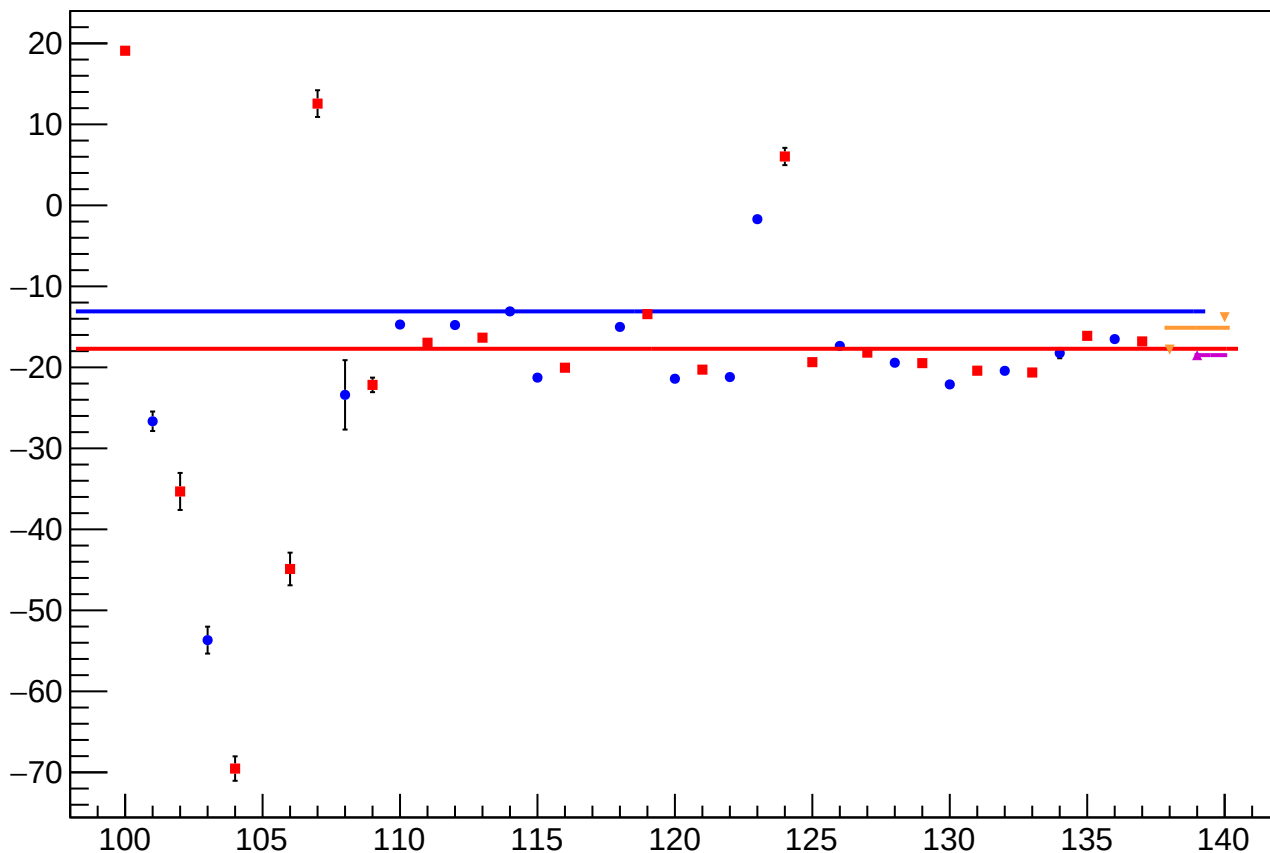
Right: 0.419+/-0.000  $\chi^2/\text{NDF}$ : 24797052003265142

In: 0.420+/-0.000  $\chi^2/\text{NDF}$ :114583.6/17

Out: -45.259+/-0.000  $\chi^2/\text{NDF}$ :2447033.8/20

All: 0.419+/-0.000  $\chi^2/\text{NDF}$ : 24797052003265

# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 30071.6/16

Left Out:  $-15.109 \pm 0.076$   $\chi^2/\text{NDF}$ : 612.0/1

Right Out:  $-17.705 \pm 0.048$   $\chi^2/\text{NDF}$ : 14635.4/18

Left In:  $-18.490 \pm 0.105$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-16.268 \pm 0.061$   $\chi^2/\text{NDF}$ : 1298.2/2

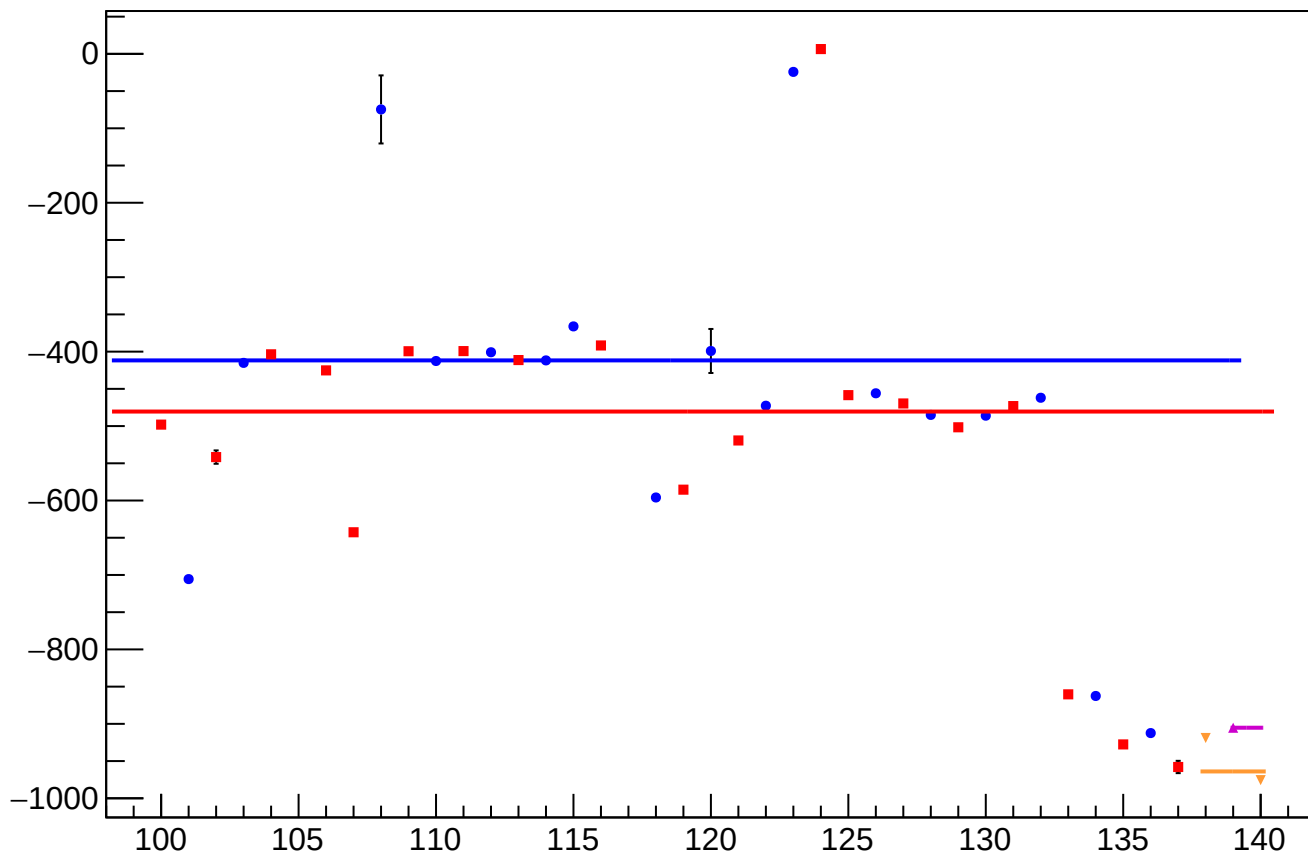
Right:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 53991.0/35

In:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 32735.0/17

Out:  $-16.961 \pm 0.040$   $\chi^2/\text{NDF}$ : 16089.4/20

All:  $-13.090 \pm 0.000$   $\chi^2/\text{NDF}$ : 57980.3/38

# dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 984974.9/16

Left Out: -963.940+/-0.787  $\chi^2/\text{NDF}$ : 846.6/1

Right Out: -480.481+/-0.166  $\chi^2/\text{NDF}$ : 596807.0/18

Left In: -905.208+/-1.044  $\chi^2/\text{NDF}$ : 0.0/0

Left: -942.640+/-0.629  $\chi^2/\text{NDF}$ : 2864.5/2

Right: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 1752754.1/35

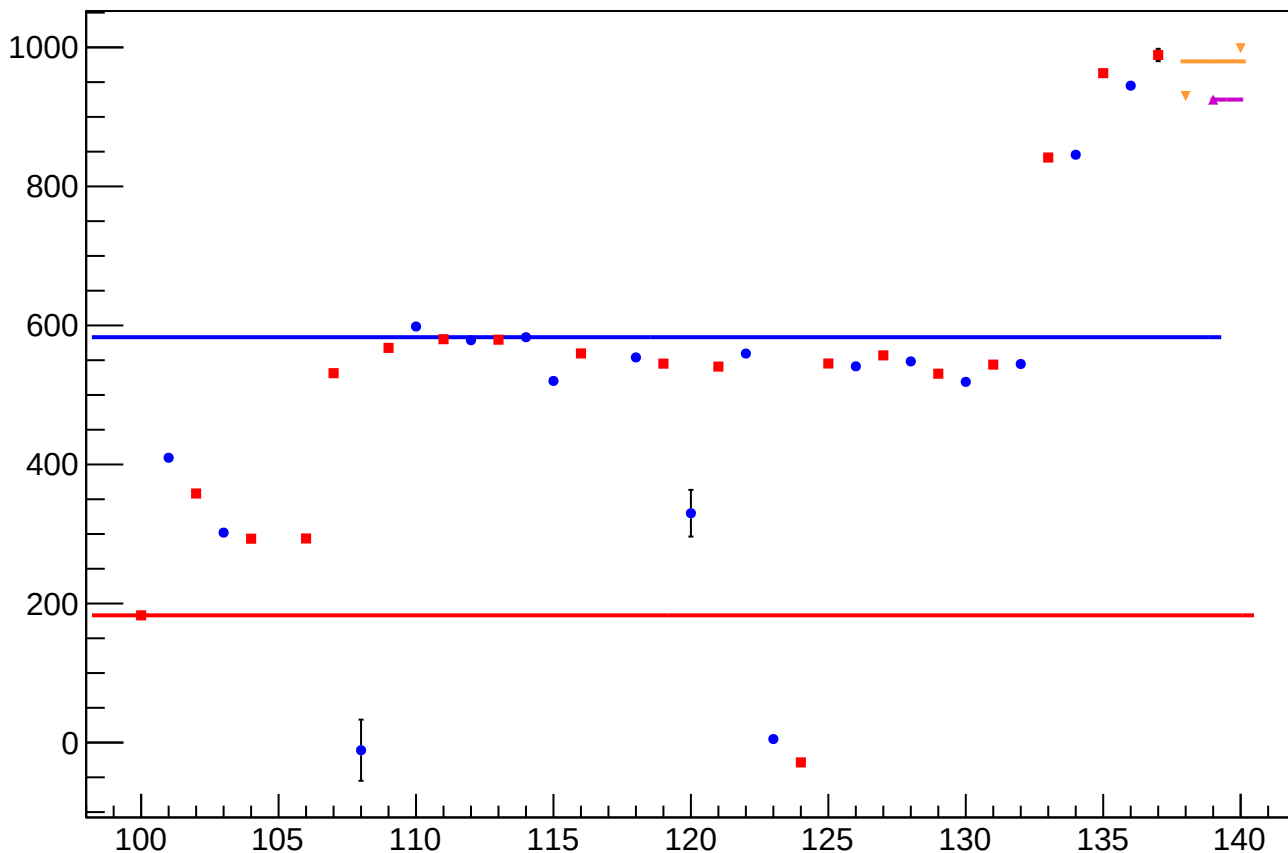
In: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 1208468.7/17

Out: -501.098+/-0.163  $\chi^2/\text{NDF}$ : 958603.6/20

All: -411.771+/-0.000  $\chi^2/\text{NDF}$ : 2468906.7/38



# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 583.096+/-0.000  $\chi^2/\text{NDF}$ : 1695243.6/16

Left Out: 979.866+/-0.730  $\chi^2/\text{NDF}$ :1764.0/1

Right Out: 182.993+/-0.000  $\chi^2/\text{NDF}$ : 2983395.1/18

Left In: 924.913+/-0.965  $\chi^2/\text{NDF}$ :0.0/0

Left: 959.869+/-0.582  $\chi^2/\text{NDF}$ : 3826.2/2

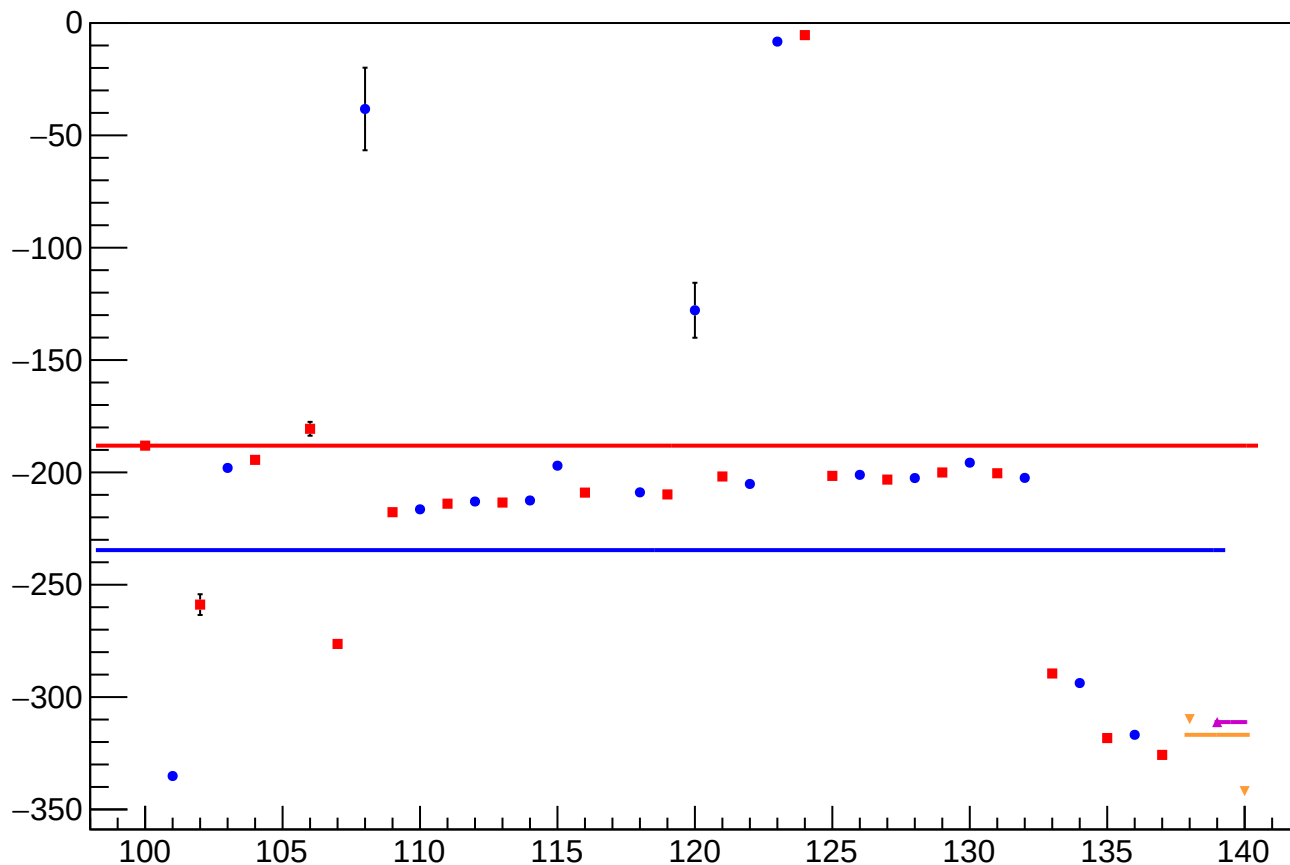
Right: 224.125+/-0.000  $\chi^2/\text{NDF}$ : 122237113759786

In: 583.096+/-0.000  $\chi^2/\text{NDF}$ :1820677.6/17

Out: 182.993+/-0.000  $\chi^2/\text{NDF}$ :4176834.2/20

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:  $-316.794 \pm 0.092$   $\chi^2/\text{NDF}: 20531.7/1$

Right Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 564190.5/18$

Left In:  $-311.125 \pm 0.198$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-315.784 \pm 0.084$   $\chi^2/\text{NDF}: 21204.2/2$

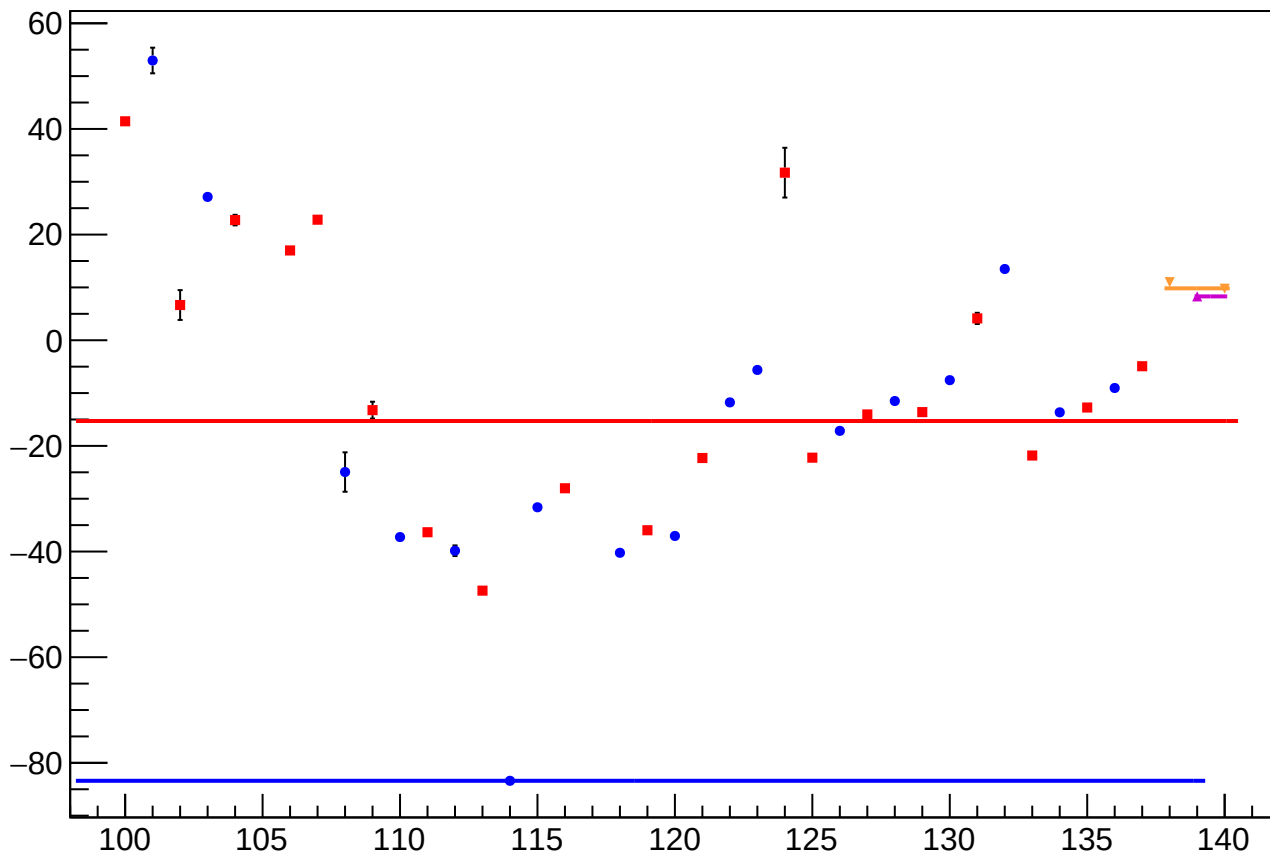
Right:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 2276022.3/35$

In:  $-240.349 \pm 0.054$   $\chi^2/\text{NDF}: 1172480.0/17$

Out:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 2530112.1/20$

All:  $-188.094 \pm 0.000$   $\chi^2/\text{NDF}: 4627408.4/38$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In: -83.399 $\pm$ 0.000  $\chi^2$ /NDF: 1111851.8/16

Left Out: 9.828 $\pm$ 0.172  $\chi^2$ /NDF:3.0/1

Right Out: -15.289 $\pm$ 0.093  $\chi^2$ /NDF: 45102.9/18

Left In: 8.300 $\pm$ 0.208  $\chi^2$ /NDF:0.0/0

Left: 9.207 $\pm$ 0.132  $\chi^2$ /NDF: 35.2/2

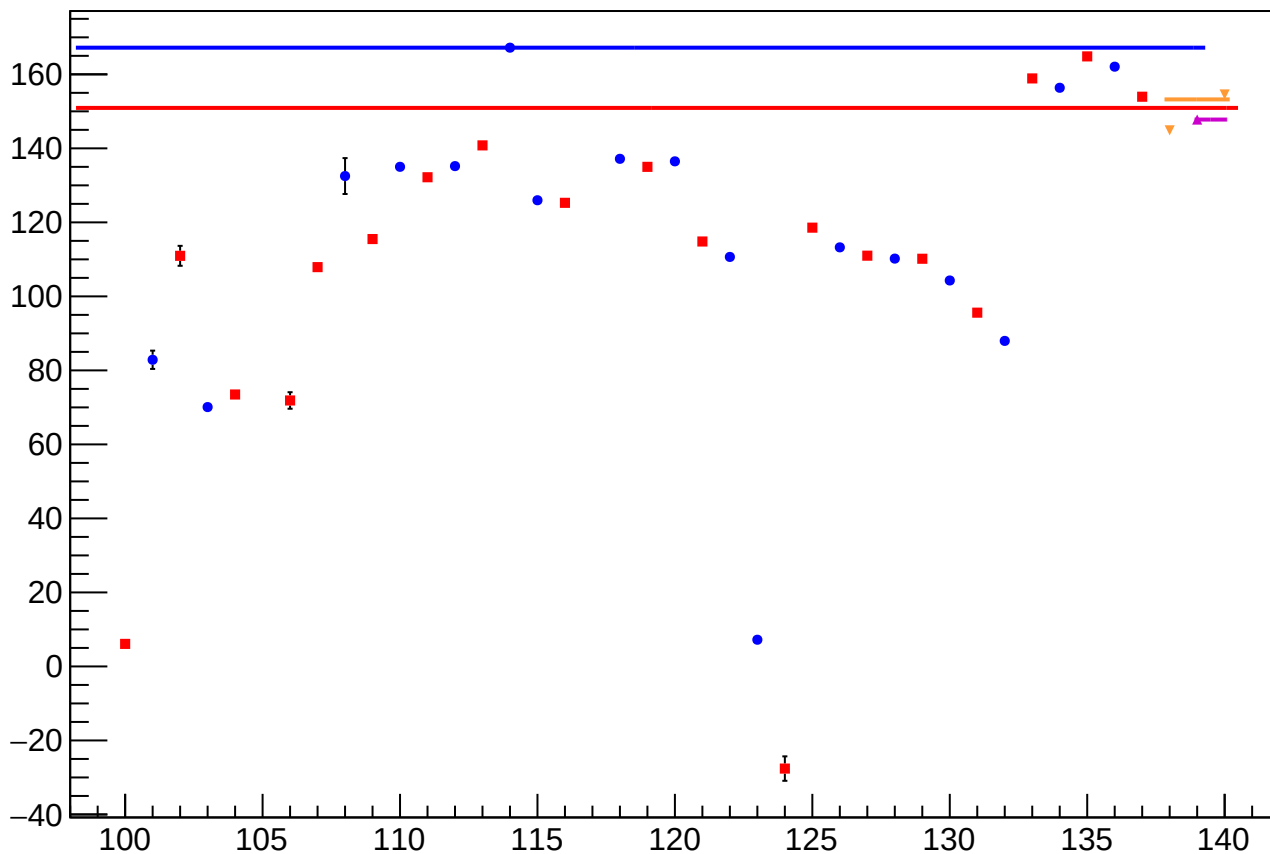
Right: -83.399 $\pm$ 0.000  $\chi^2$ /NDF: 1693721.3/35

In: -83.399 $\pm$ 0.000  $\chi^2$ /NDF:1306971.6/17

Out: -9.590 $\pm$ 0.082  $\chi^2$ /NDF:61667.7/20

All: -83.399 $\pm$ 0.000  $\chi^2$ /NDF: 2183989.2/38

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 377544.7/16

Left Out: 153.226 $\pm$ 0.221  $\chi^2$ /NDF:229.2/1

Right Out: 150.930 $\pm$ 0.030  $\chi^2$ /NDF: 254077.1/18

Left In: 147.781 $\pm$ 0.235  $\chi^2$ /NDF:0.0/0

Left: 150.665 $\pm$ 0.161  $\chi^2$ /NDF: 514.6/2

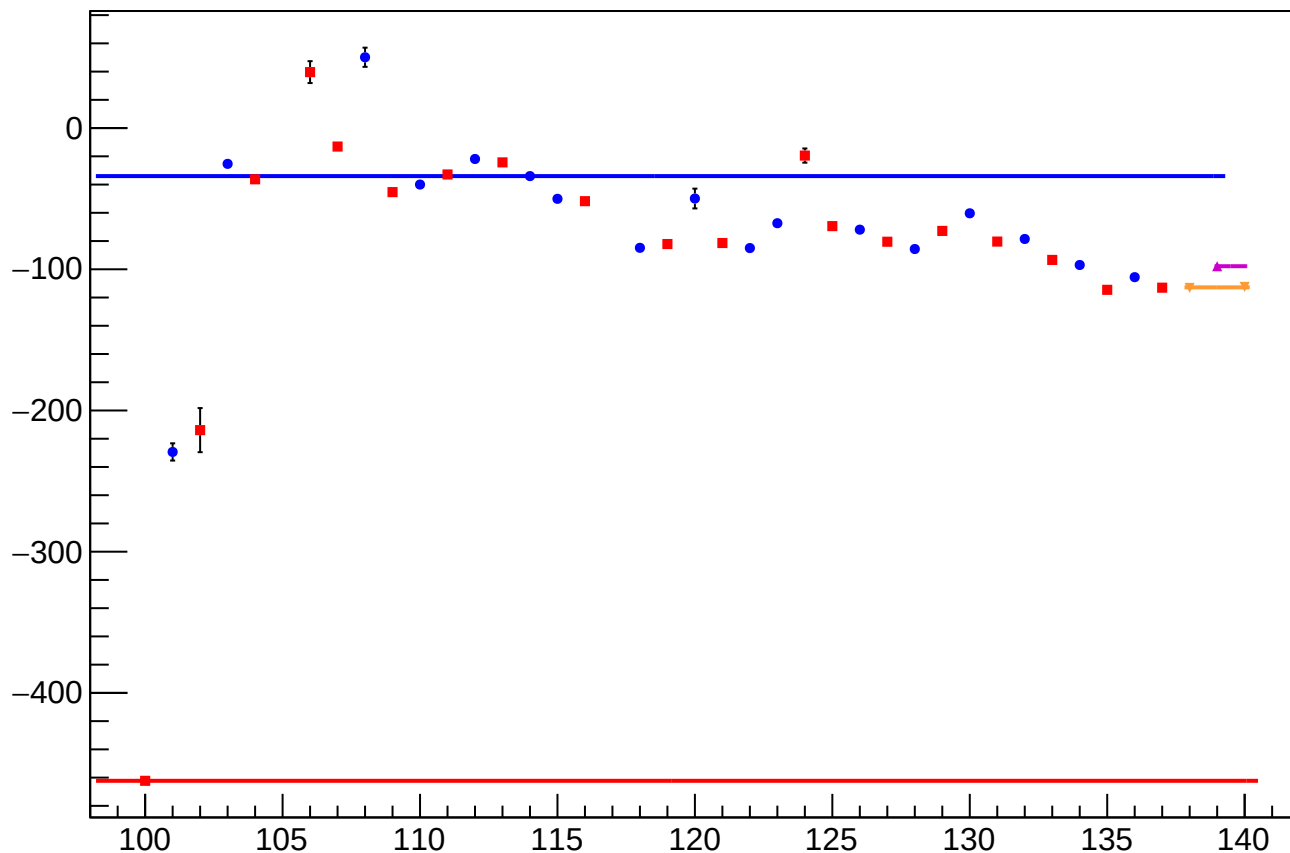
Right: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 927090.4/35

In: 167.207 $\pm$ 0.000  $\chi^2$ /NDF:384402.8/17

Out: 150.971 $\pm$ 0.030  $\chi^2$ /NDF:254412.2/20

All: 167.207 $\pm$ 0.000  $\chi^2$ /NDF: 938178.8/38

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 103608.4/16$

Left Out:  $-112.807 \pm 0.297$   $\chi^2/\text{NDF}: 1.5/1$

Right Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 4616114.1/18$

Left In:  $-97.821 \pm 0.742$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-110.733 \pm 0.276$   $\chi^2/\text{NDF}: 353.0/2$

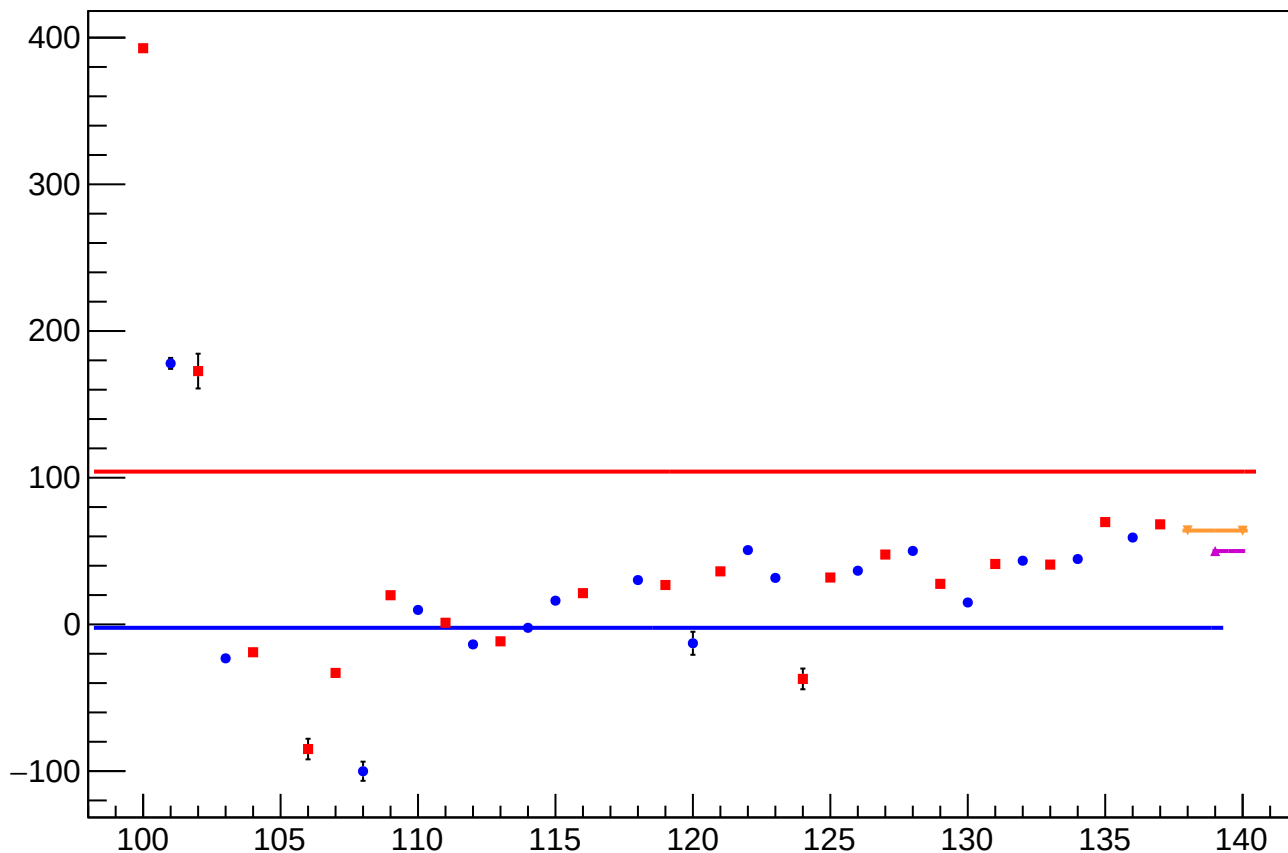
Right:  $-34.912 \pm 0.000$   $\chi^2/\text{NDF}: 849582565143584$

In:  $-34.002 \pm 0.000$   $\chi^2/\text{NDF}: 111008.3/17$

Out:  $-462.254 \pm 0.000$   $\chi^2/\text{NDF}: 5997321.3/20$

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:  $63.977 \pm 0.284$   $\chi^2/\text{NDF}: 0.2/1$

Right Out:  $104.164 \pm 0.183$   $\chi^2/\text{NDF}: 779114.1/18$

Left In:  $50.015 \pm 0.674$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $61.866 \pm 0.262$   $\chi^2/\text{NDF}: 364.6/2$

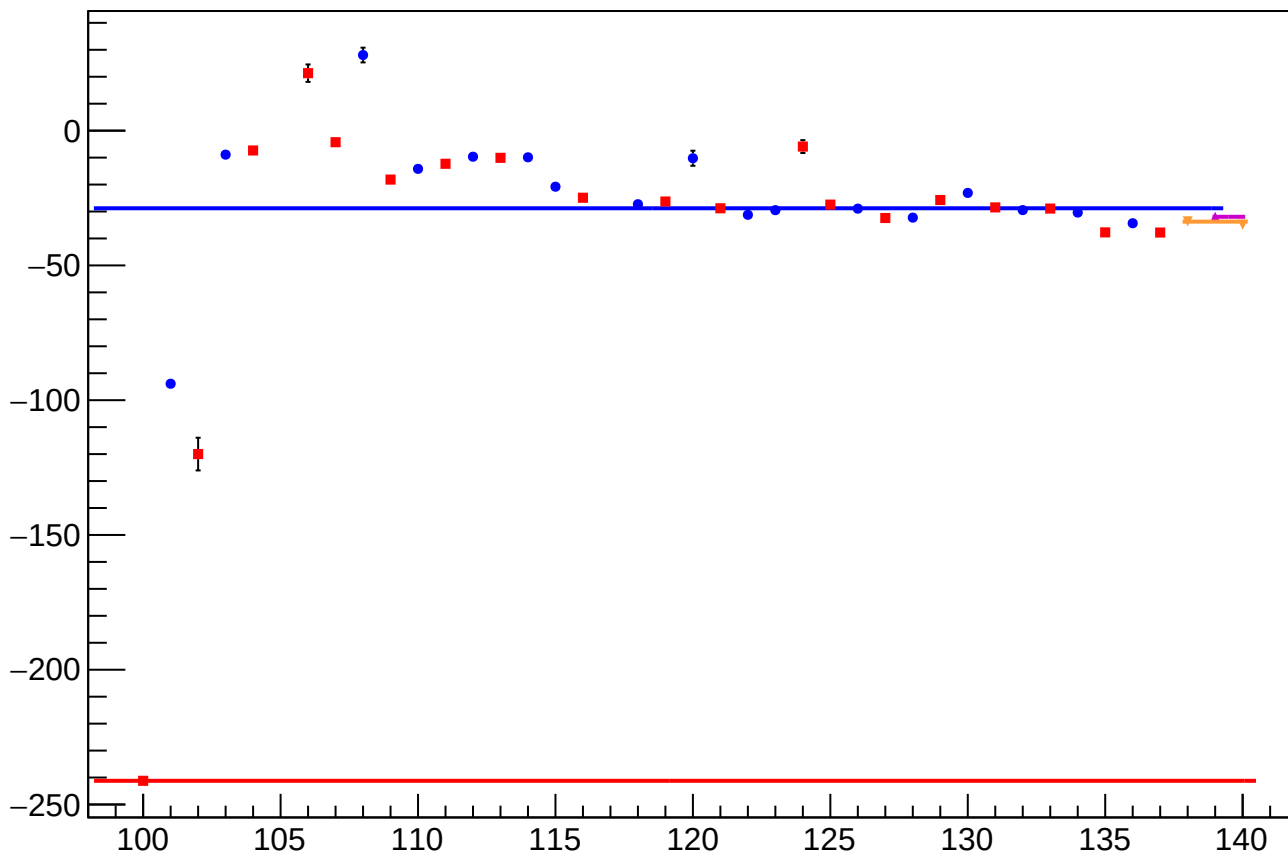
Right:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}: 1189122.1/35$

In:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}: 78340.0/17$

Out:  $92.376 \pm 0.154$   $\chi^2/\text{NDF}: 793223.2/20$

All:  $-2.317 \pm 0.000$   $\chi^2/\text{NDF}: 1249488.5/38$

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.799 \pm 0.035$   $\chi^2/\text{NDF}: 49372.5/16$

Left Out:  $-33.759 \pm 0.033$   $\chi^2/\text{NDF}: 110.7/1$

Right Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 31730104.8/18$

Left In:  $-31.956 \pm 0.060$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-33.346 \pm 0.029$   $\chi^2/\text{NDF}: 811.7/2$

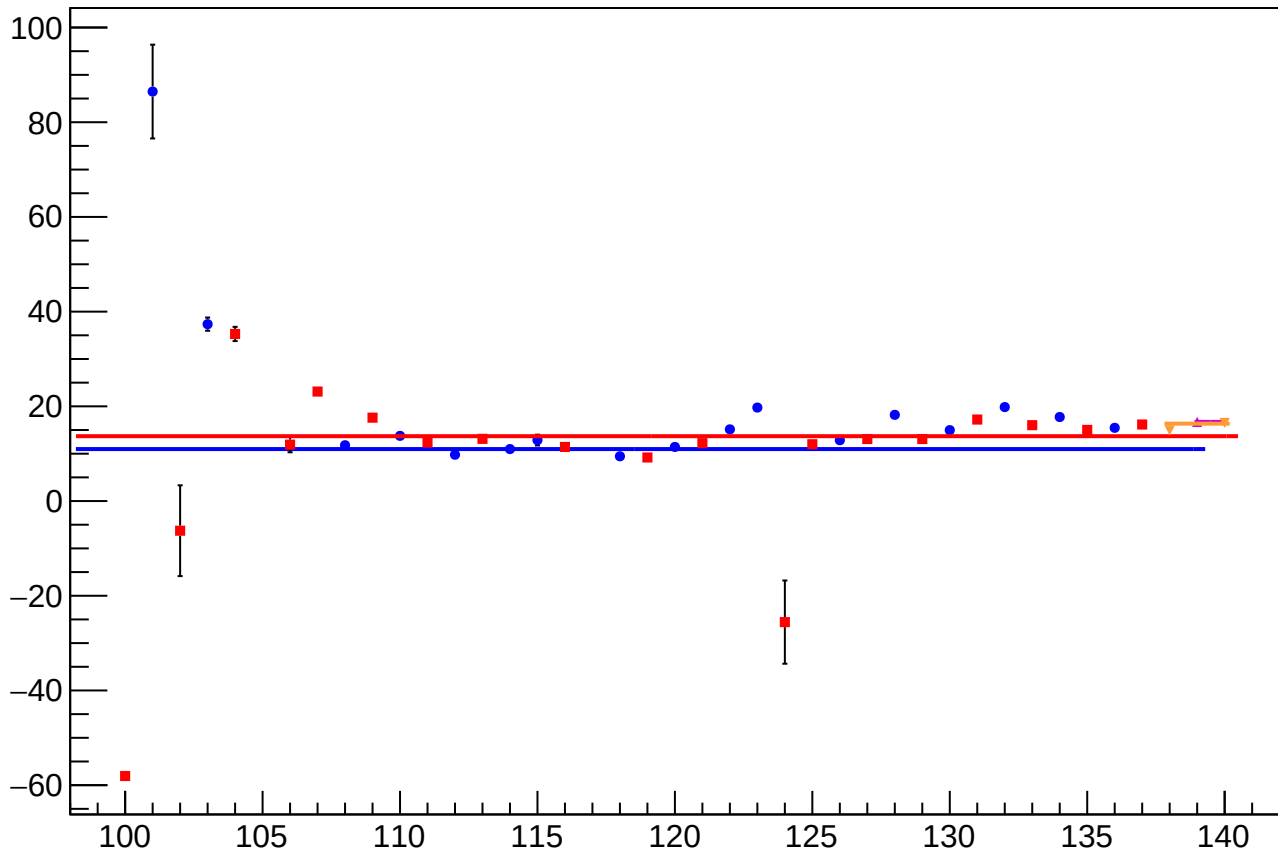
Right:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 67856010.6/35$

In:  $-29.617 \pm 0.030$   $\chi^2/\text{NDF}: 51437.0/17$

Out:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 72158286.3/20$

All:  $-241.209 \pm 0.000$   $\chi^2/\text{NDF}: 120529342.4/35$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 10.978 $\pm$ 0.000  $\chi^2$ /NDF: 26383.3/16

Left Out: 16.343 $\pm$ 0.047  $\chi^2$ /NDF:99.5/1

Right Out: 13.698 $\pm$ 0.044  $\chi^2$ /NDF: 38261.7/18

Left In: 16.714 $\pm$ 0.085  $\chi^2$ /NDF:0.0/0

Left: 16.431 $\pm$ 0.041  $\chi^2$ /NDF: 114.1/2

Right: 10.978 $\pm$ 0.000  $\chi^2$ /NDF: 68468.7/35

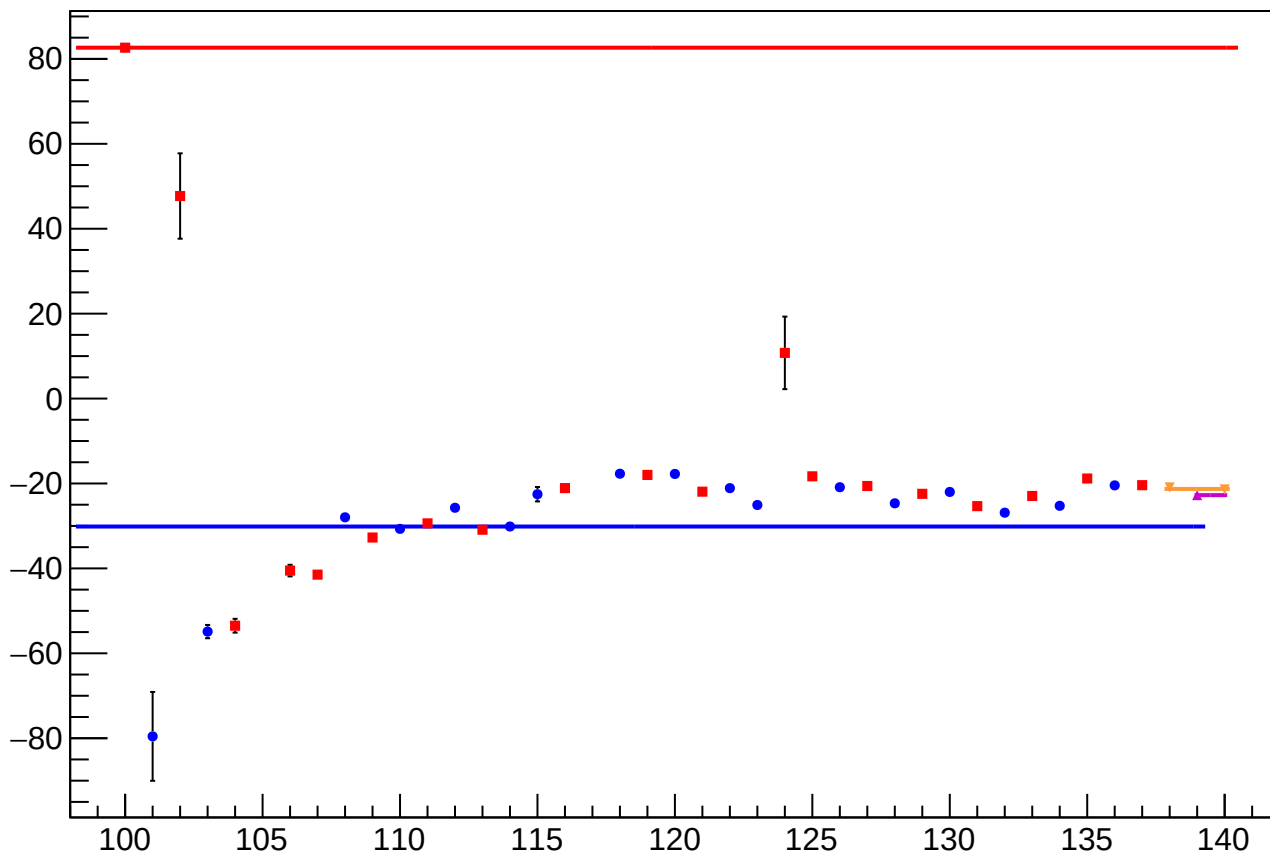
In: 10.978 $\pm$ 0.000  $\chi^2$ /NDF:30974.5/17

Out: 14.928 $\pm$ 0.032  $\chi^2$ /NDF:40044.6/20

All: 10.978 $\pm$ 0.000  $\chi^2$ /NDF: 86100.3/38



# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-30.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 75823.3/16

Left Out:  $-21.287 \pm 0.065$   $\chi^2/\text{NDF}$ : 9.7/1

Right Out:  $82.645 \pm 0.000$   $\chi^2/\text{NDF}$ : 4126300.9/18

Left In:  $-22.744 \pm 0.097$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-21.740 \pm 0.054$   $\chi^2/\text{NDF}$ : 163.7/2

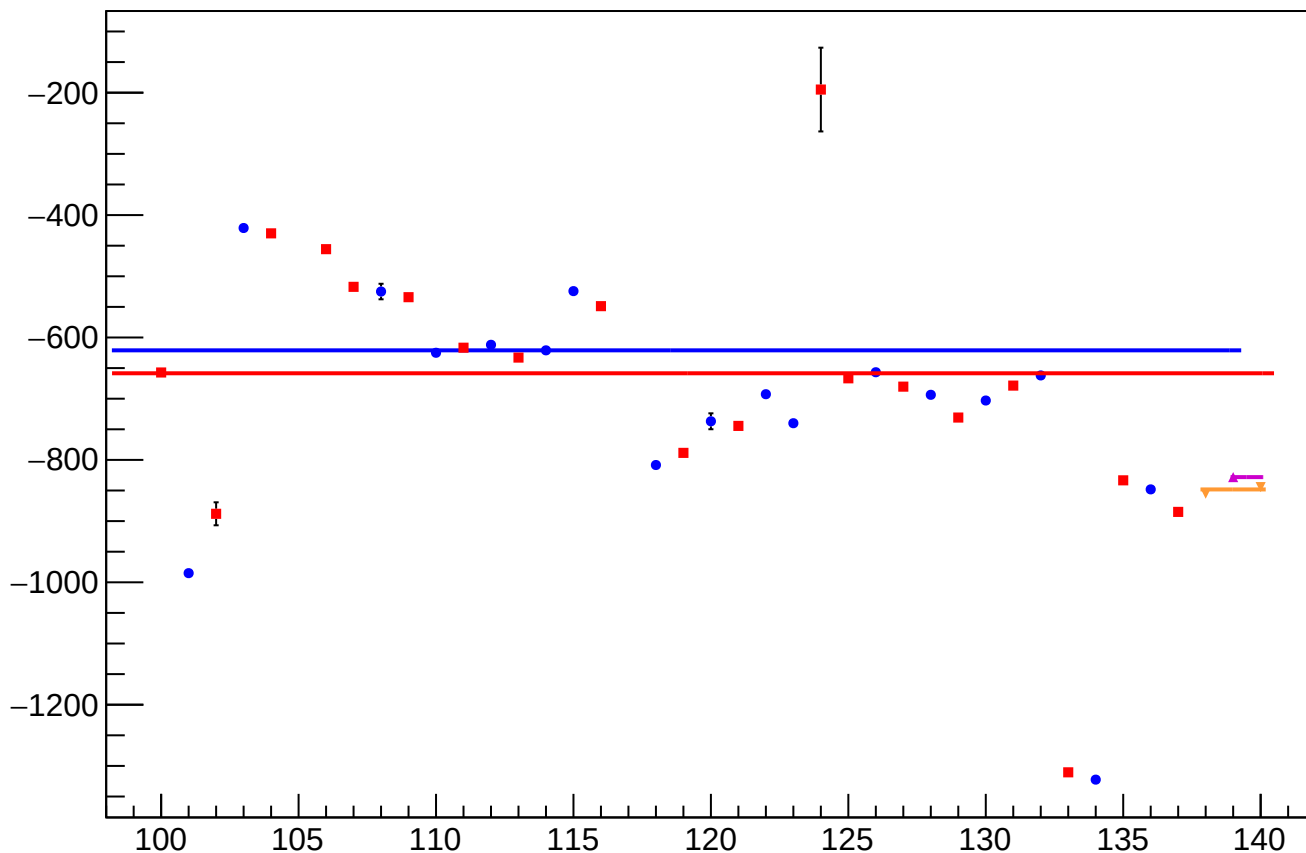
Right:  $-26.421 \pm 0.000$   $\chi^2/\text{NDF}$ : 365466407976619

In:  $-30.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 81580.4/17

Out:  $82.645 \pm 0.000$   $\chi^2/\text{NDF}$ : 6644609.0/20

All:  $-26.421 \pm 0.000$   $\chi^2/\text{NDF}$ : 365466407976

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-620.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 309597.8/16

Left Out:  $-848.260 \pm 0.929$   $\chi^2/\text{NDF}$ : 30.7/1

Right Out:  $-658.472 \pm 0.211$   $\chi^2/\text{NDF}$ : 385288.9/18

Left In:  $-828.121 \pm 0.947$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-838.389 \pm 0.663$   $\chi^2/\text{NDF}$ : 261.1/2

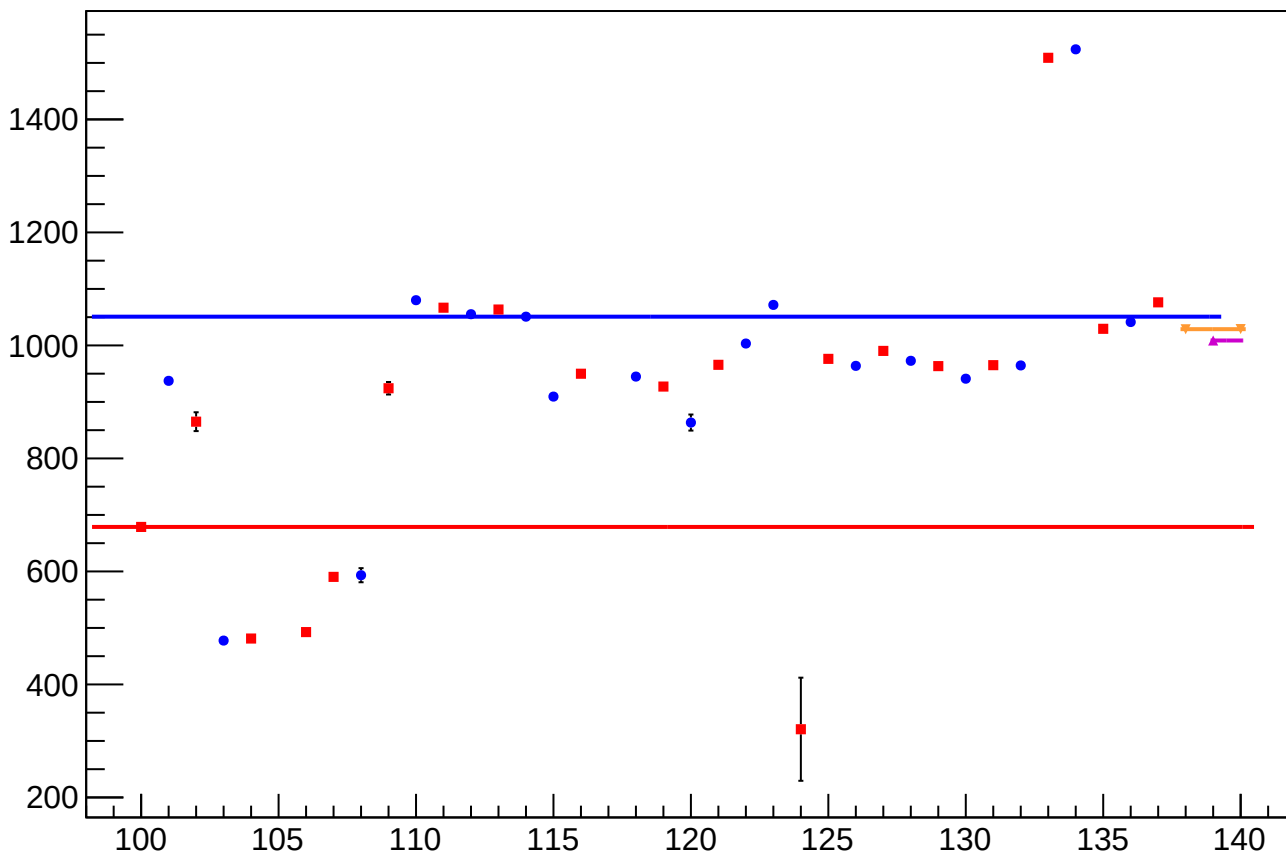
Right:  $-620.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 726578.9/35

In:  $-620.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 357406.8/17

Out:  $-667.745 \pm 0.205$   $\chi^2/\text{NDF}$ : 425030.3/20

All:  $-620.994 \pm 0.000$   $\chi^2/\text{NDF}$ : 834286.4/38

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 1050.885 $\pm$ 0.000  $\chi^2$ /NDF: 296535.3/16

Left Out: 1028.768 $\pm$ 0.868  $\chi^2$ /NDF: 0.0/1

Right Out: 678.756 $\pm$ 0.000  $\chi^2$ /NDF: 1421757.7/18

Left In: 1008.717 $\pm$ 0.829  $\chi^2$ /NDF: 0.0/0

Left: 1018.280 $\pm$ 0.599  $\chi^2$ /NDF: 279.3/2

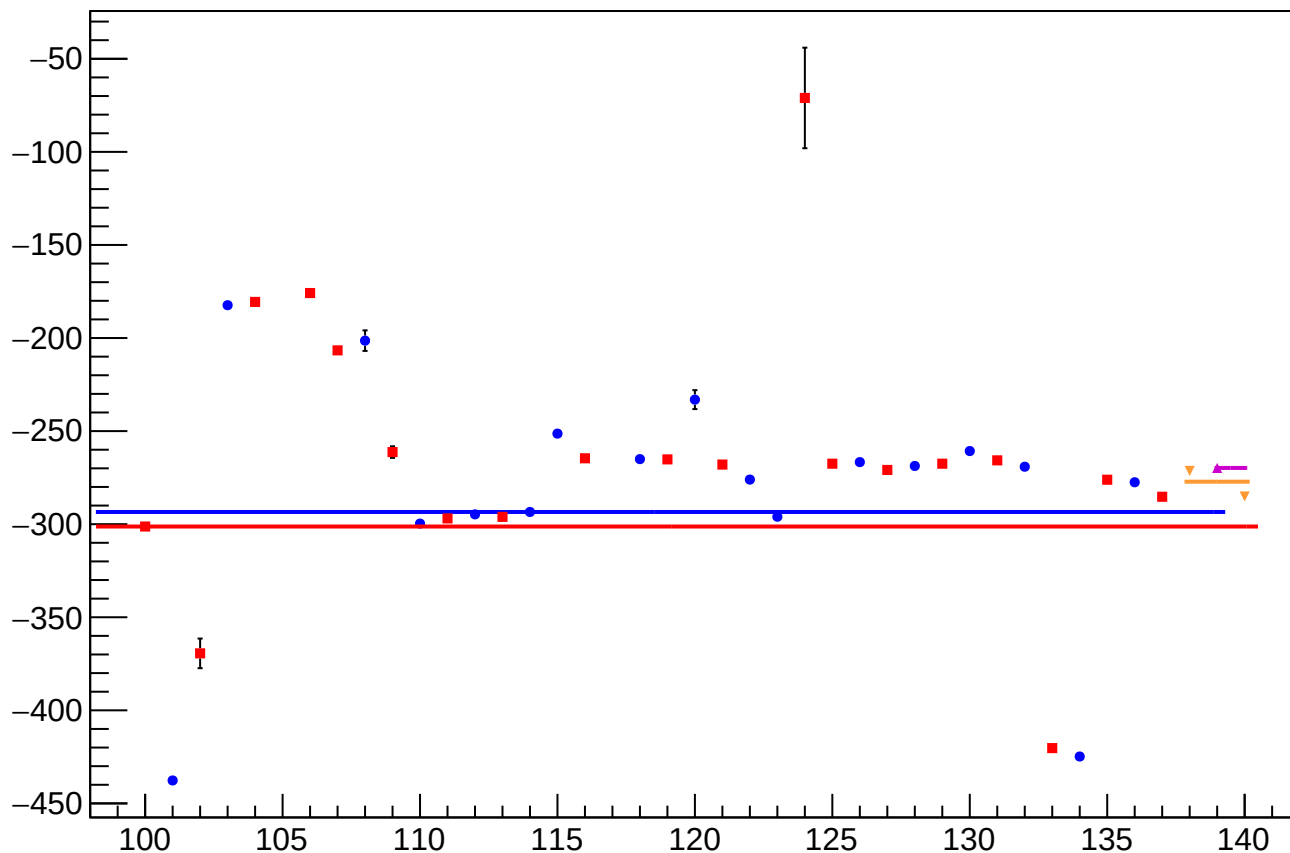
Right: 717.012 $\pm$ 0.000  $\chi^2$ /NDF: 660888056800884

In: 1050.885 $\pm$ 0.000  $\chi^2$ /NDF: 299124.9/17

Out: 678.756 $\pm$ 0.000  $\chi^2$ /NDF: 1584430.7/20

All: 717.012 $\pm$ 0.000  $\chi^2$ /NDF: 660888056800884

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In: -293.440+/-0.000  $\chi^2/\text{NDF}$ : 806123.9/16

Left Out: -277.173+/-0.114  $\chi^2/\text{NDF}$ : 3546.0/1

Right Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ : 709937.5/18

Left In: -269.787+/-0.088  $\chi^2/\text{NDF}$ : 0.0/0

Left: -272.543+/-0.070  $\chi^2/\text{NDF}$ : 6178.6/2

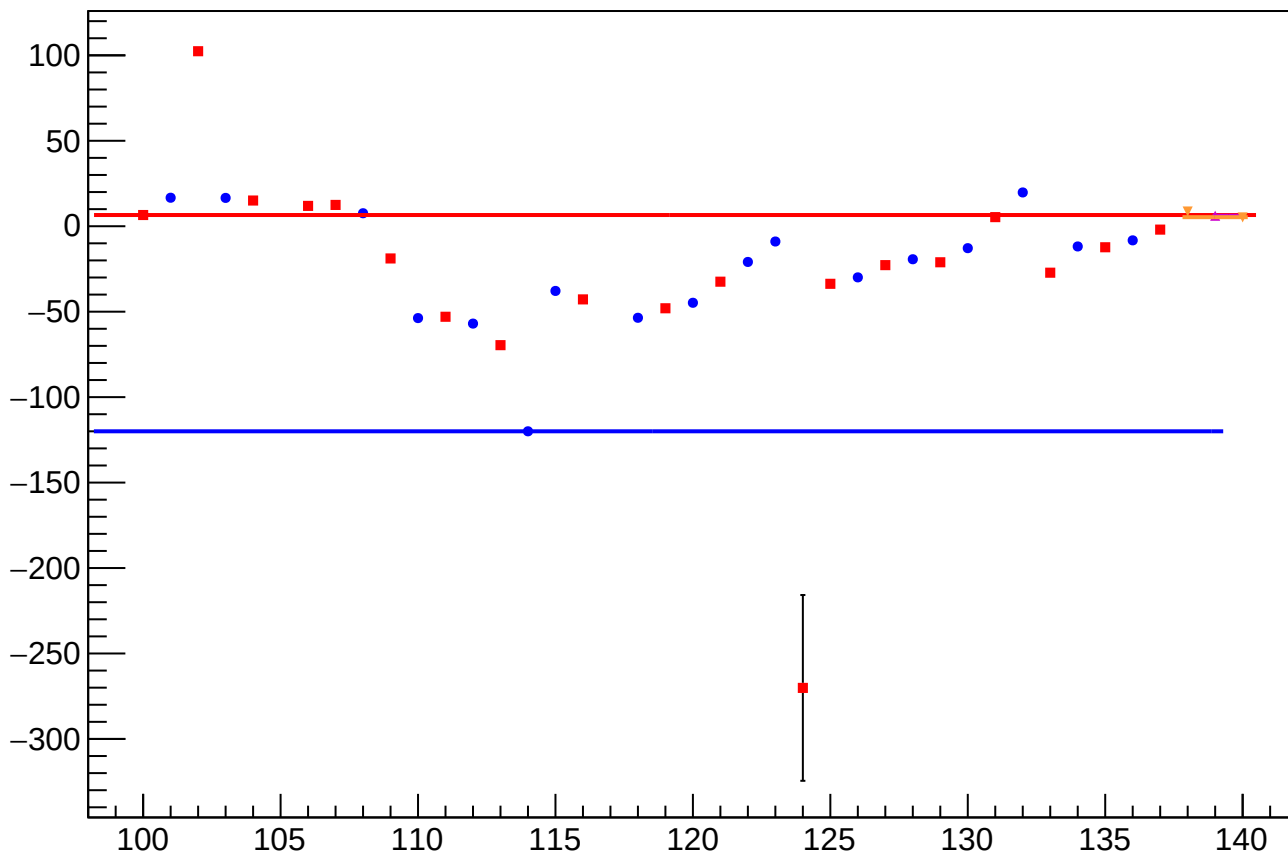
Right: -296.200+/-0.000  $\chi^2/\text{NDF}$ : 73444542243591

In: -293.440+/-0.000  $\chi^2/\text{NDF}$ : 878478.6/17

Out: -301.259+/-0.000  $\chi^2/\text{NDF}$ : 758133.5/20

All: -296.200+/-0.000  $\chi^2/\text{NDF}$ : 73444542243

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In: -119.993+/-0.000  $\chi^2/\text{NDF}$ : 1507310.0/16

Left Out: 5.308+/-0.120  $\chi^2/\text{NDF}$ :32.8/1

Right Out: 6.562+/-0.000  $\chi^2/\text{NDF}$ : 110723.7/18

Left In: 6.147+/-0.189  $\chi^2/\text{NDF}$ :0.0/0

Left: 5.548+/-0.101  $\chi^2/\text{NDF}$ : 46.8/2

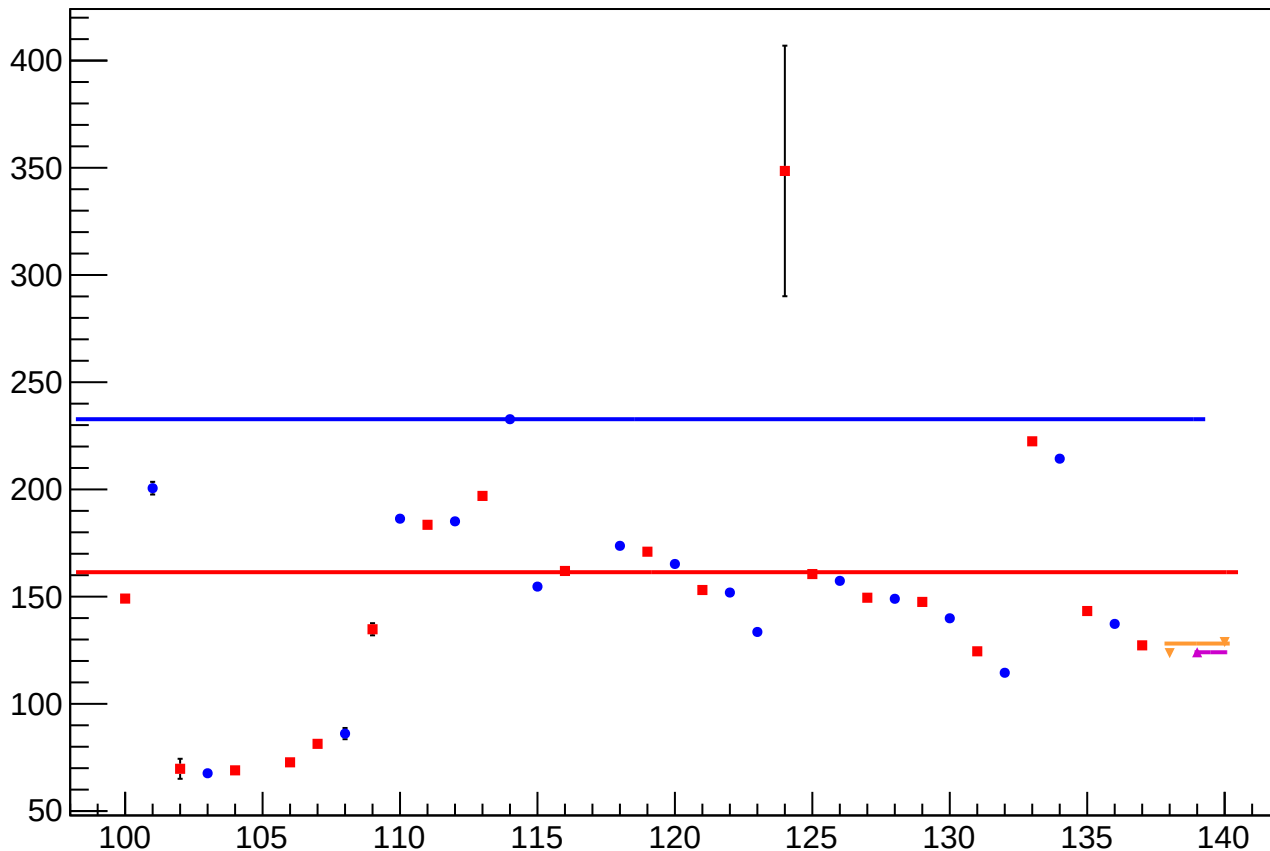
Right: 6.462+/-0.000  $\chi^2/\text{NDF}$ : 96855847891730169

In: -119.993+/-0.000  $\chi^2/\text{NDF}$ :1952986.1/17

Out: 6.562+/-0.000  $\chi^2/\text{NDF}$ :110866.1/20

All: 6.462+/-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: 128.122 $\pm$ 0.166  $\chi^2$ /NDF:113.2/1

Right Out: 161.402 $\pm$ 0.086  $\chi^2$ /NDF: 158469.5/18

Left In: 124.059 $\pm$ 0.207  $\chi^2$ /NDF:0.0/0

Left: 126.529 $\pm$ 0.130  $\chi^2$ /NDF: 347.0/2

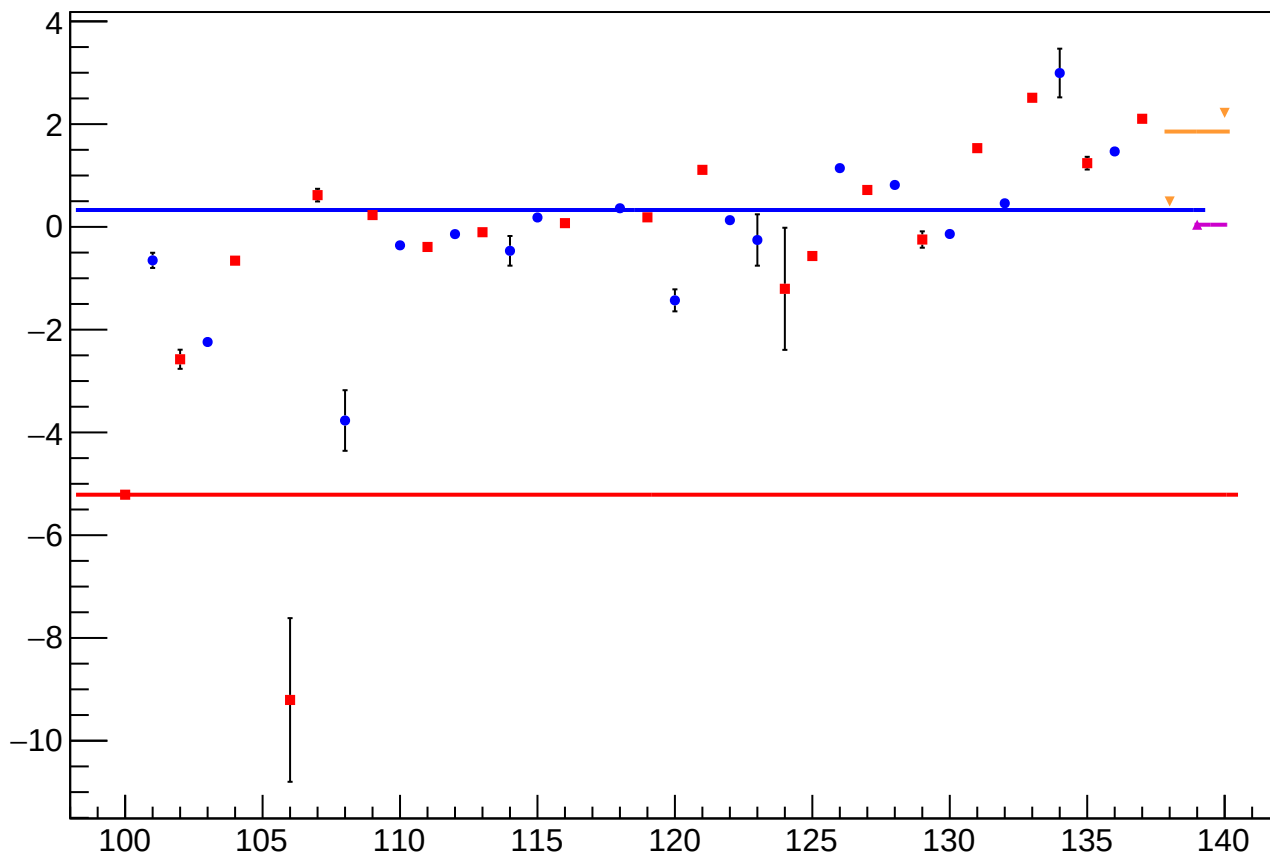
Right: 232.747 $\pm$ 0.000  $\chi^2$ /NDF: 1727131.7/35

In: 232.747 $\pm$ 0.000  $\chi^2$ /NDF:1160312.8/17

Out: 154.350 $\pm$ 0.077  $\chi^2$ /NDF:190099.4/20

All: 232.747 $\pm$ 0.000  $\chi^2$ /NDF: 2397696.6/38

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $0.329 \pm 0.013$   $\chi^2/\text{NDF}$ : 4100.2/16

Left Out:  $1.856 \pm 0.041$   $\chi^2/\text{NDF}$ : 296.8/1

Right Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 500748.8/18

Left In:  $0.042 \pm 0.029$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.662 \pm 0.024$   $\chi^2/\text{NDF}$ : 1594.6/2

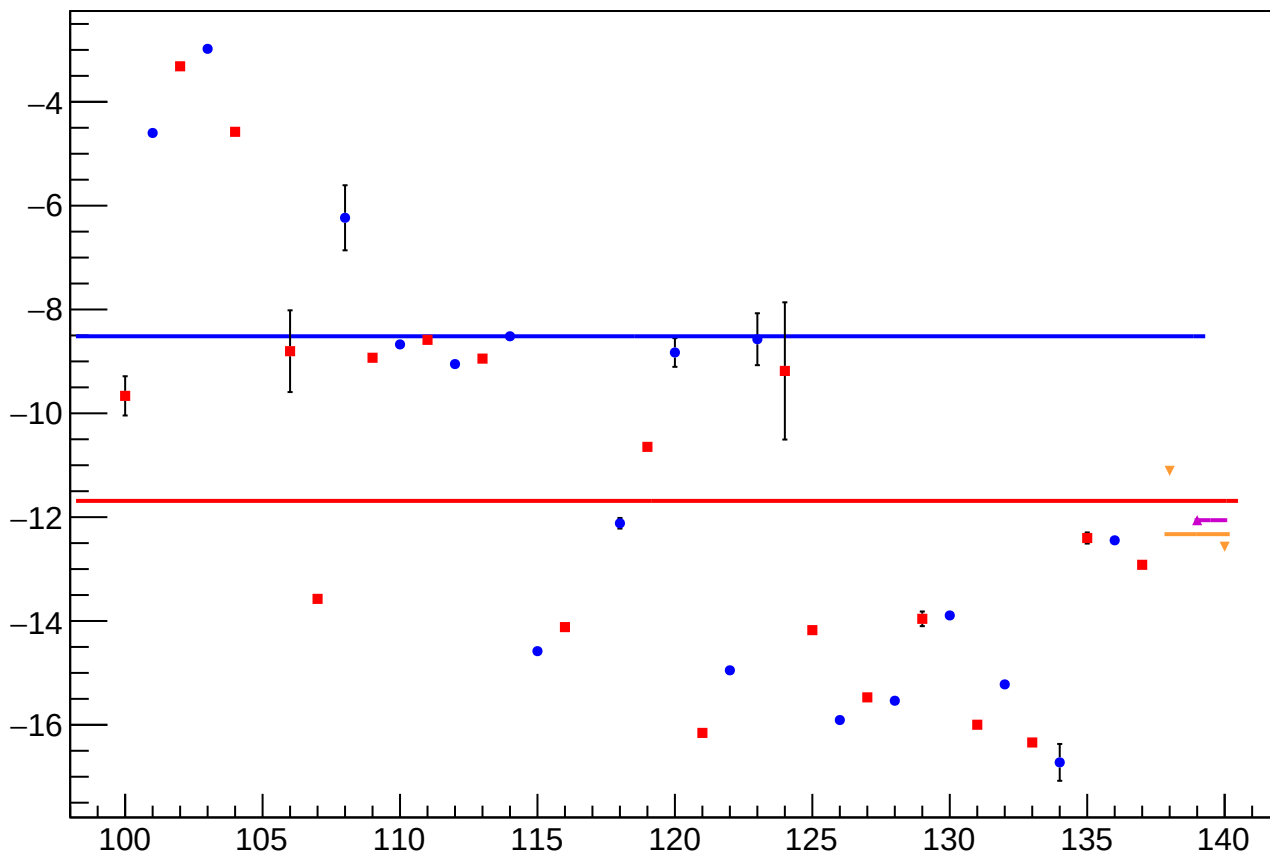
Right:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 690660.4/35

In:  $0.283 \pm 0.012$   $\chi^2/\text{NDF}$ : 4179.7/17

Out:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 531005.1/20

All:  $-5.212 \pm 0.000$   $\chi^2/\text{NDF}$ : 752799.1/38

# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 245356.0/16

Left Out:  $-12.327 \pm 0.034$   $\chi^2/\text{NDF}$ : 259.7/1

Right Out:  $-11.687 \pm 0.012$   $\chi^2/\text{NDF}$ : 108168.0/18

Left In:  $-12.058 \pm 0.089$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-12.294 \pm 0.032$   $\chi^2/\text{NDF}$ : 267.7/2

Right:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 428263.5/35

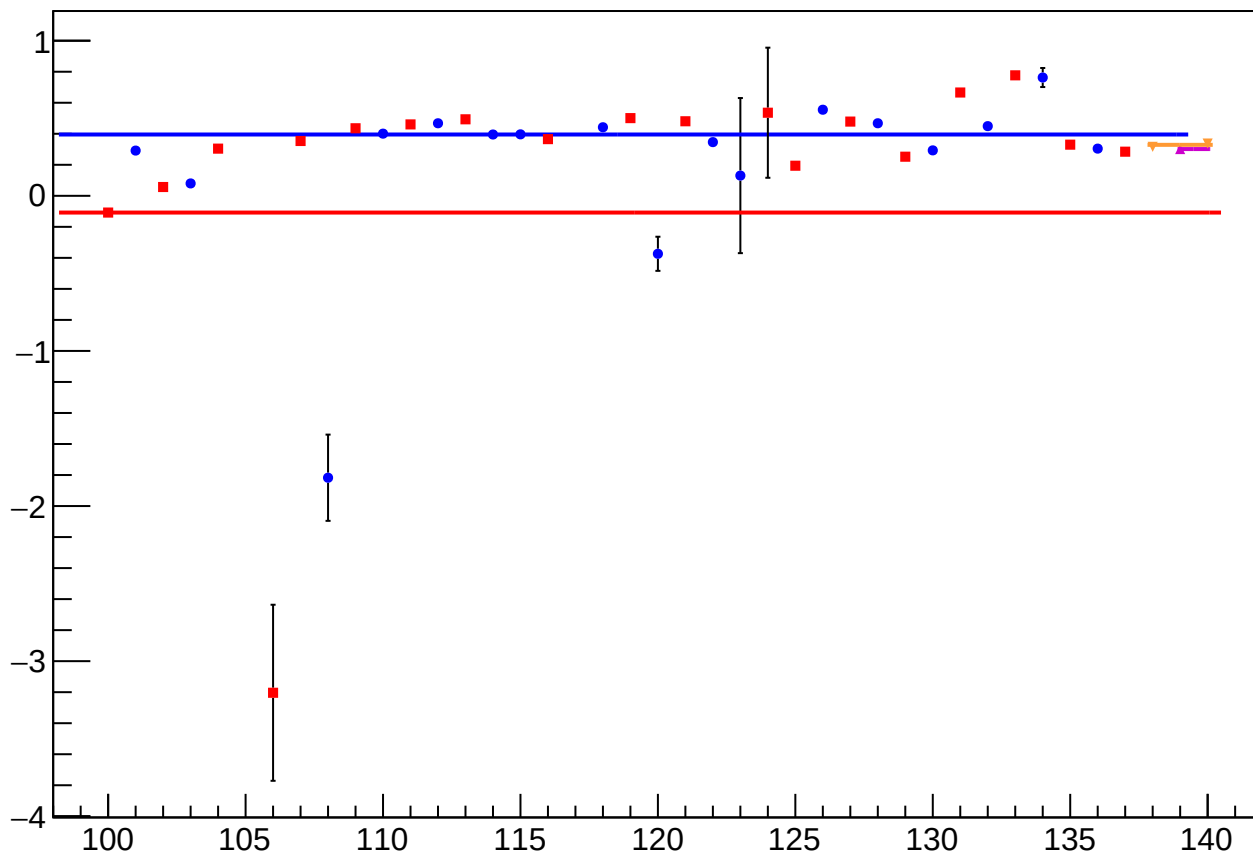
In:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 246939.6/17

Out:  $-11.754 \pm 0.011$   $\chi^2/\text{NDF}$ : 108751.1/20

All:  $-8.516 \pm 0.000$   $\chi^2/\text{NDF}$ : 442900.2/38



dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000  $\chi^2$ /NDF: 10311.3/16

Left Out: 0.329 $\pm$ 0.001  $\chi^2$ /NDF:99.8/1

Right Out: -0.108 $\pm$ 0.000  $\chi^2$ /NDF: 128250.0/18

Left In: 0.301 $\pm$ 0.002  $\chi^2$ /NDF:0.0/0

Left: 0.324 $\pm$ 0.001  $\chi^2$ /NDF: 207.6/2

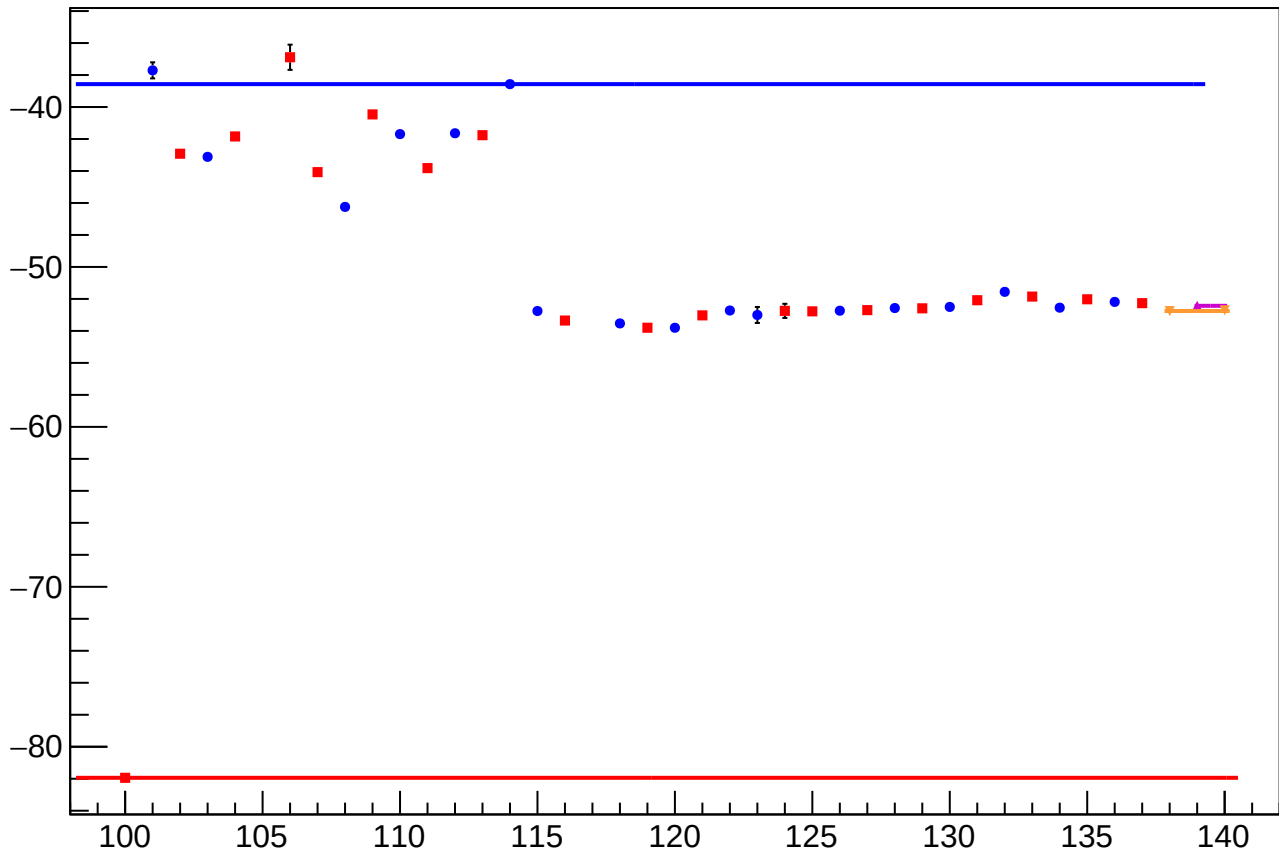
Right: -0.056 $\pm$ 0.000  $\chi^2$ /NDF: 8110213490538816

In: 0.395 $\pm$ 0.000  $\chi^2$ /NDF:11831.1/17

Out: -0.108 $\pm$ 0.000  $\chi^2$ /NDF:304623.3/20

All: -0.056 $\pm$ 0.000  $\chi^2$ /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: -52.755+/-0.008  $\chi^2/\text{NDF}$ : 4.7/1

Right Out: -81.941+/-0.000  $\chi^2/\text{NDF}$ : 120351577.0/18

Left In: -52.430+/-0.011  $\chi^2/\text{NDF}$ : 0.0/0

Left: -52.656+/-0.006  $\chi^2/\text{NDF}$ : 571.7/2

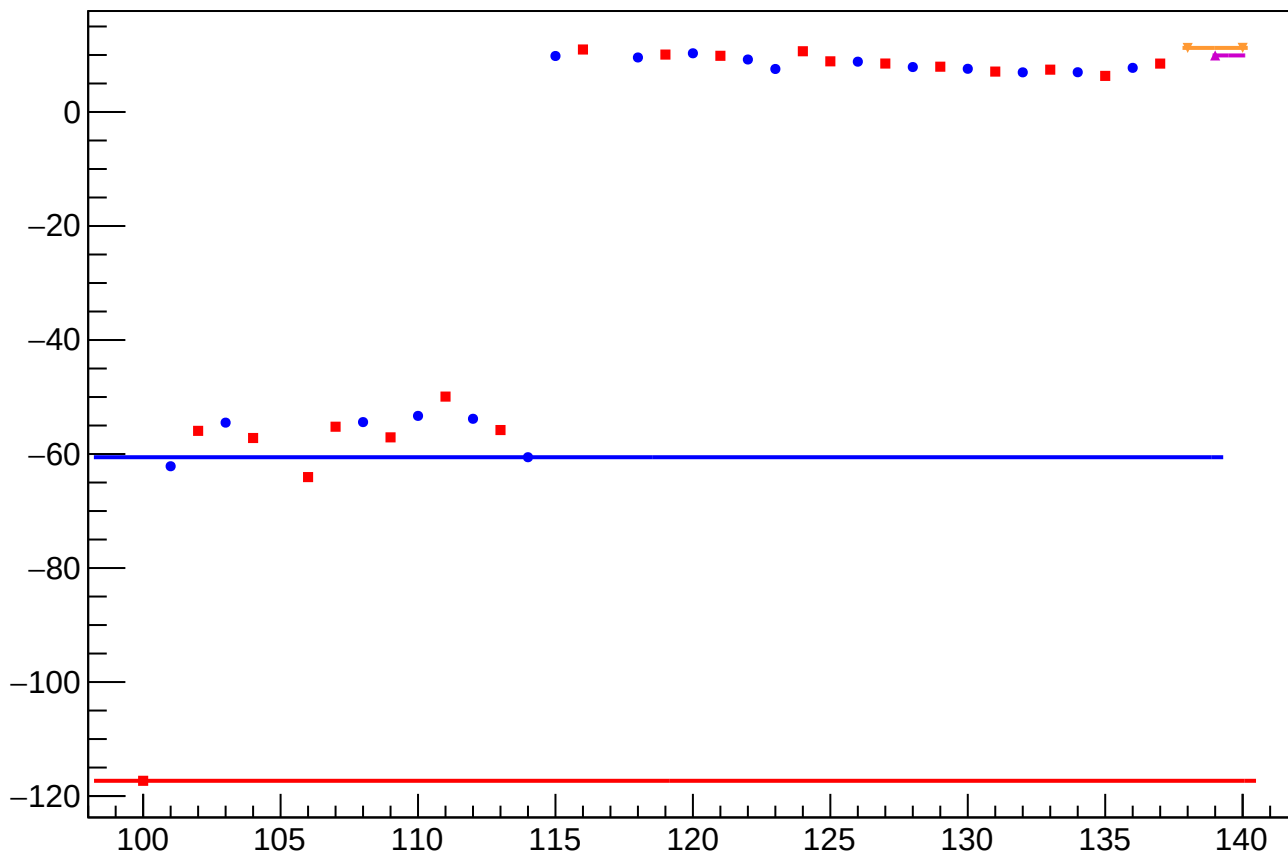
Right: -43.774+/-0.000  $\chi^2/\text{NDF}$ : 491816286535349

In: -38.570+/-0.000  $\chi^2/\text{NDF}$ : 13799300.9/17

Out: -81.941+/-0.000  $\chi^2/\text{NDF}$ : 135305081.3/20

All: -43.774+/-0.000  $\chi^2/\text{NDF}$ : 491816286535

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In: -60.561+/-0.000  $\chi^2/\text{NDF}$ : 179199478.6/16

Left Out: 11.240+/-0.020  $\chi^2/\text{NDF}$ : 0.1/1

Right Out: -117.324+/-0.000  $\chi^2/\text{NDF}$ : 218537776.8/18

Left In: 9.921+/-0.022  $\chi^2/\text{NDF}$ : 0.0/0

Left: 10.644+/-0.015  $\chi^2/\text{NDF}$ : 1893.8/2

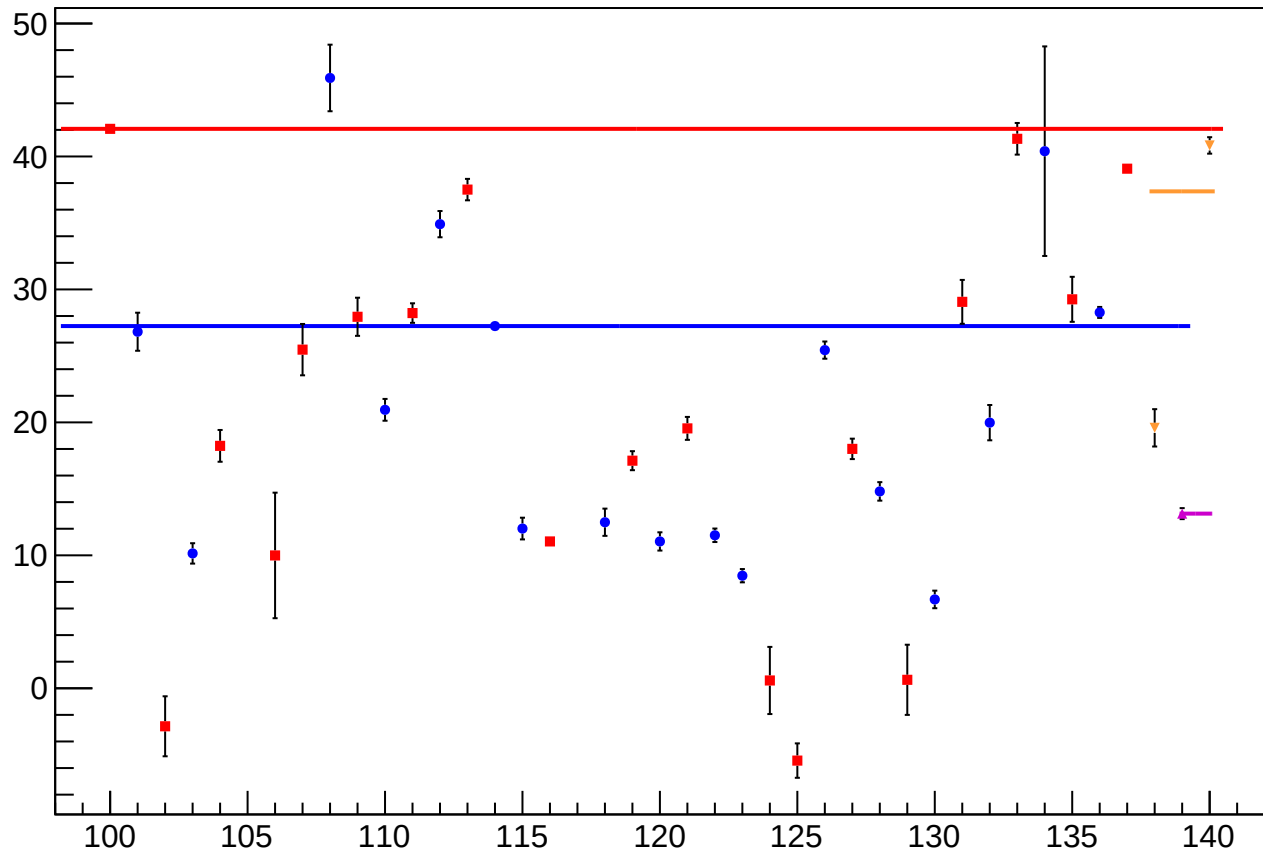
Right: -91.839+/-0.000  $\chi^2/\text{NDF}$ : 429805156128459

In: -60.561+/-0.000  $\chi^2/\text{NDF}$ : 189064761.0/17

Out: -117.324+/-0.000  $\chi^2/\text{NDF}$ : 258305491.4/20

All: -91.839+/-0.000  $\chi^2/\text{NDF}$ : 429805156128

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF: 5492.1/16

Left Out: 37.376 $\pm$ 0.566  $\chi^2$ /NDF:191.5/1

Right Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF: 38215.8/18

Left In: 13.137 $\pm$ 0.414  $\chi^2$ /NDF:0.0/0

Left: 21.584 $\pm$ 0.334  $\chi^2$ /NDF: 1384.6/2

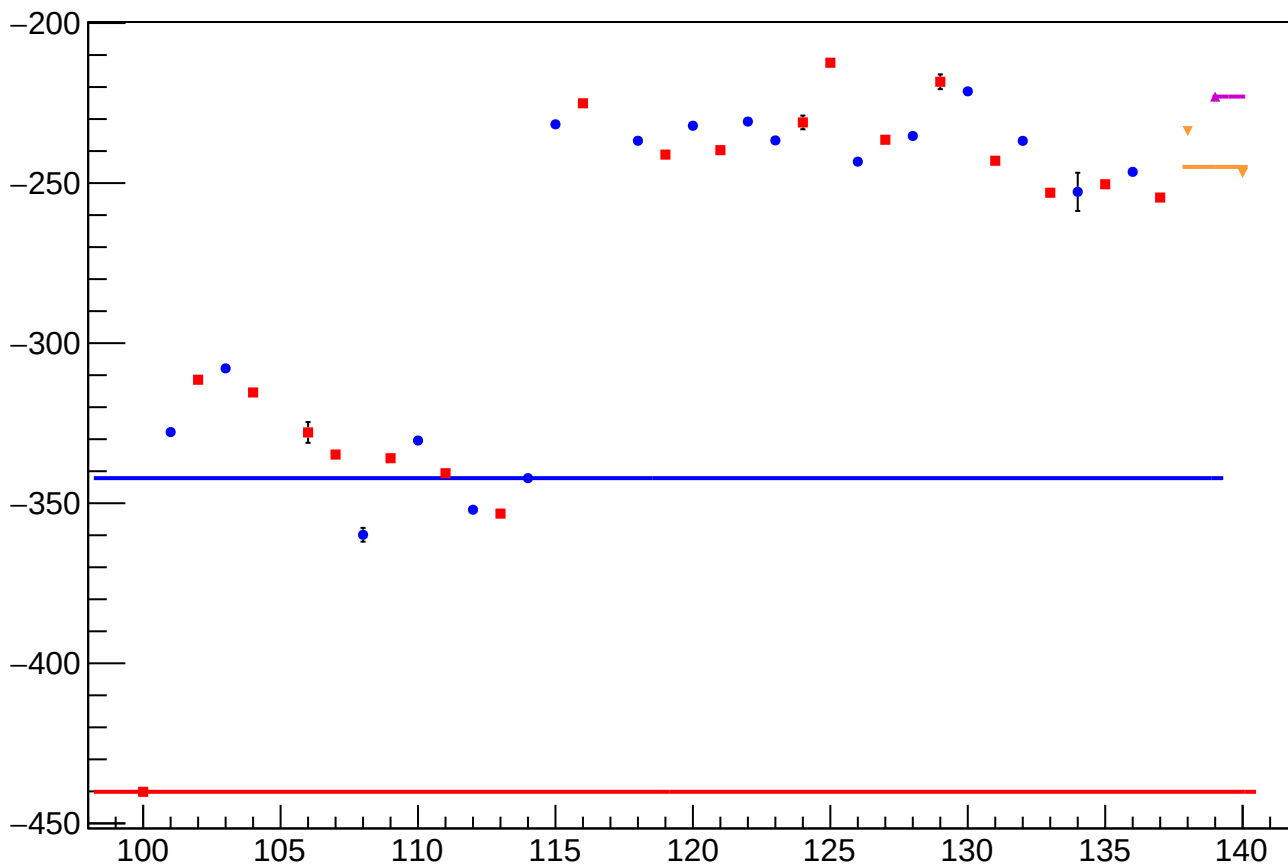
Right: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606931

In: 27.244 $\pm$ 0.000  $\chi^2$ /NDF:6651.7/17

Out: 42.078 $\pm$ 0.000  $\chi^2$ /NDF:38476.3/20

All: 35.418 $\pm$ 0.000  $\chi^2$ /NDF: 1174117197606931

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In: -342.165+/-0.000  $\chi^2/\text{NDF}$ : 307562.3/16

Left Out: -244.948+/-0.506  $\chi^2/\text{NDF}$ :85.2/1

Right Out: -440.136+/-0.000  $\chi^2/\text{NDF}$ : 6836158.8/18

Left In: -222.976+/-0.362  $\chi^2/\text{NDF}$ :0.0/0

Left: -230.423+/-0.294  $\chi^2/\text{NDF}$ : 1333.6/2

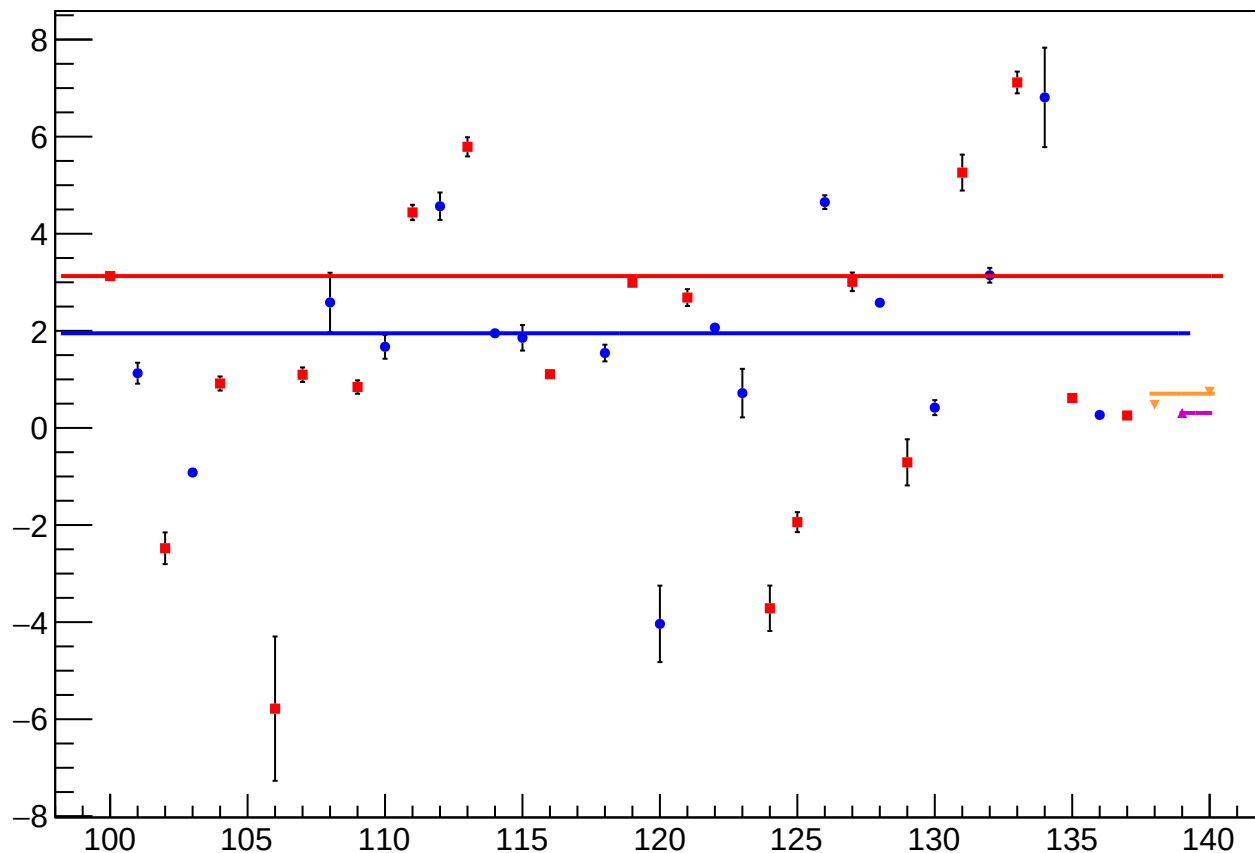
Right: -376.743+/-0.000  $\chi^2/\text{NDF}$ : 11532667116612

In: -342.165+/-0.000  $\chi^2/\text{NDF}$ :415948.4/17

Out: -440.136+/-0.000  $\chi^2/\text{NDF}$ :6985285.1/20

All: -376.743+/-0.000  $\chi^2/\text{NDF}$ : 11532667116

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In: 1.950+/-0.000  $\chi^2/\text{NDF}$ : 64103.9/16

Left Out: 0.706+/-0.008  $\chi^2/\text{NDF}$ :132.1/1

Right Out: 3.128+/-0.000  $\chi^2/\text{NDF}$ : 24965.4/18

Left In: 0.309+/-0.008  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.499+/-0.006  $\chi^2/\text{NDF}$ : 1384.0/2

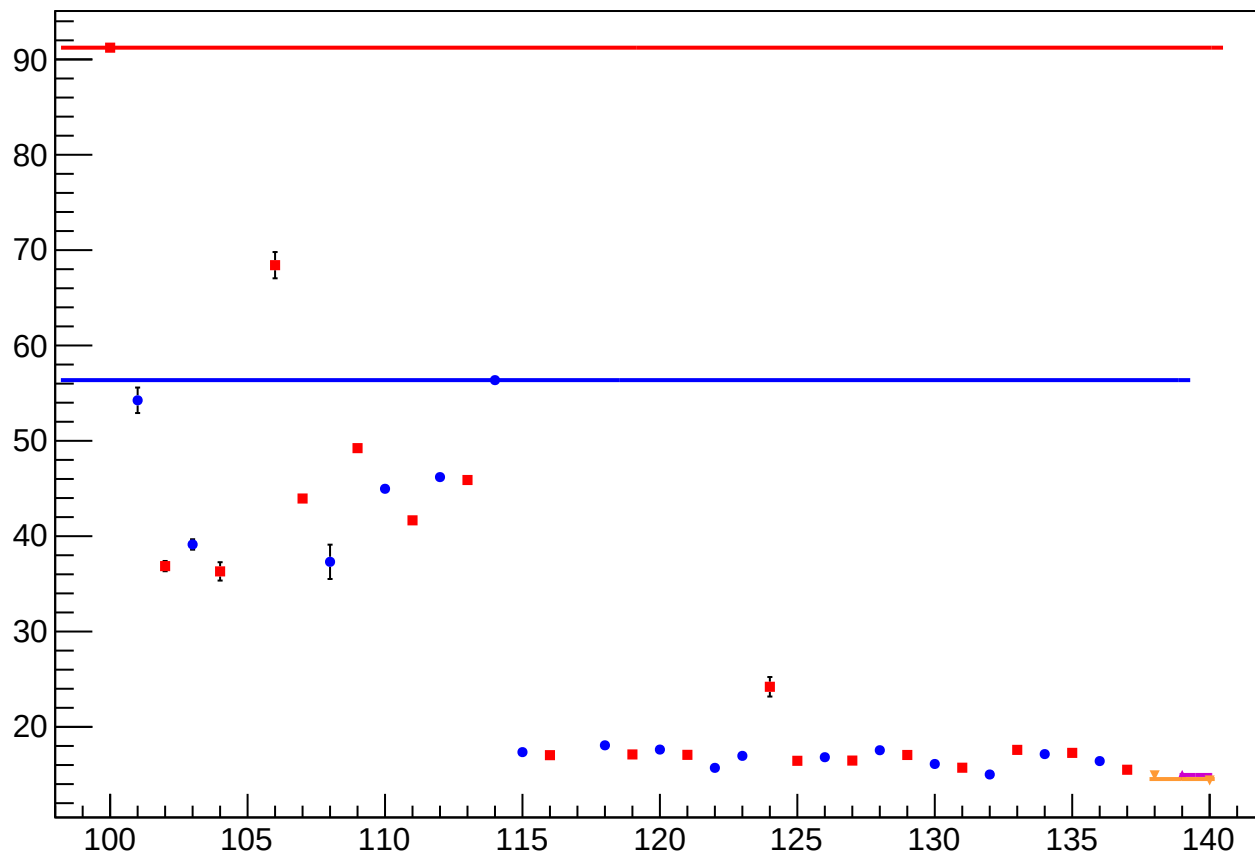
Right: 2.366+/-0.000  $\chi^2/\text{NDF}$ : 27324586822992261

In: 1.950+/-0.000  $\chi^2/\text{NDF}$ :108768.9/17

Out: 3.128+/-0.000  $\chi^2/\text{NDF}$ :113965.8/20

All: 2.366+/-0.000  $\chi^2/\text{NDF}$ : 27324586822992

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In: 56.366+/-0.000  $\chi^2/\text{NDF}$ : 8017656.1/16

Left Out: 14.530+/-0.031  $\chi^2/\text{NDF}$ : 60.4/1

Right Out: 91.232+/-0.000  $\chi^2/\text{NDF}$ : 17922403.4/18

Left In: 14.960+/-0.032  $\chi^2/\text{NDF}$ : 0.0/0

Left: 14.735+/-0.022  $\chi^2/\text{NDF}$ : 154.0/2

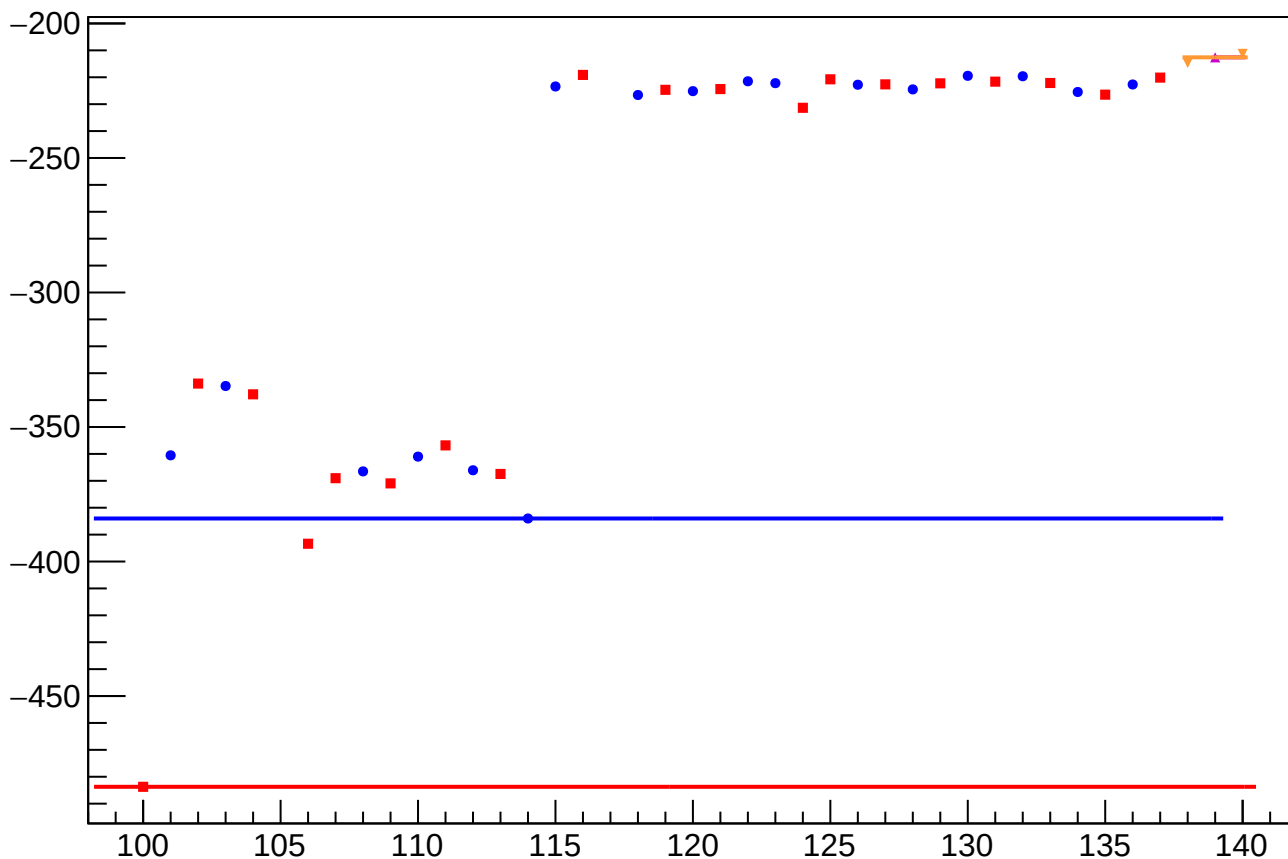
Right: 60.550+/-0.000  $\chi^2/\text{NDF}$ : 3178336126771154

In: 56.366+/-0.000  $\chi^2/\text{NDF}$ : 9674487.2/17

Out: 91.232+/-0.000  $\chi^2/\text{NDF}$ : 24145929.9/20

All: 60.550+/-0.000  $\chi^2/\text{NDF}$ : 3178336126771

dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In: -384.003+/-0.000  $\chi^2/\text{NDF}$ : 17098507.2/16

Left Out: -212.597+/-0.055  $\chi^2/\text{NDF}$ : 892.0/1

Right Out: -483.735+/-0.000  $\chi^2/\text{NDF}$ : 27646775.0/18

Left In: -212.597+/-0.094  $\chi^2/\text{NDF}$ : 0.0/0

Left: -212.597+/-0.048  $\chi^2/\text{NDF}$ : 892.0/2

Right: -452.390+/-0.000  $\chi^2/\text{NDF}$ : 58047820362383

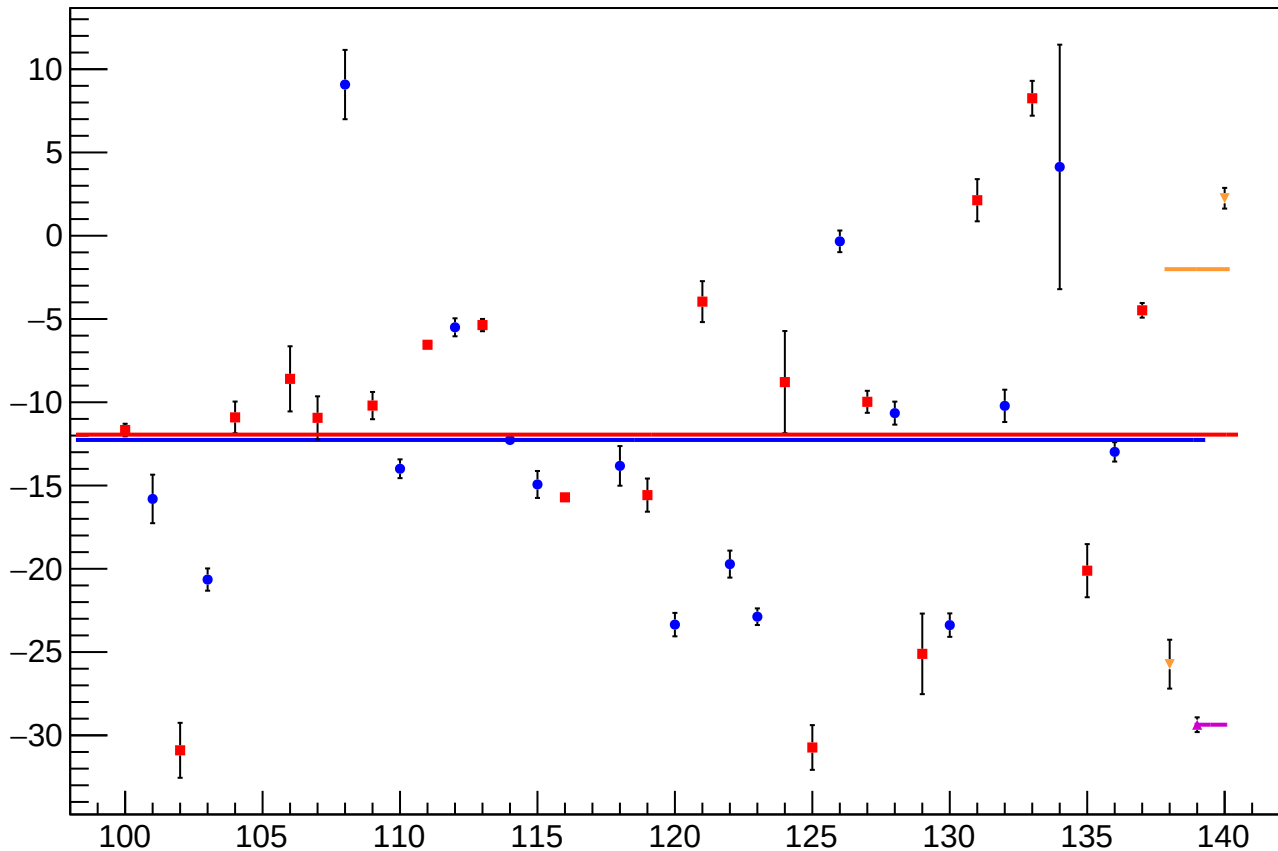
In: -384.003+/-0.000  $\chi^2/\text{NDF}$ : 20441084.2/17

Out: -483.735+/-0.000  $\chi^2/\text{NDF}$ : 51524437.4/20

All: -452.390+/-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:  $-2.008 \pm 0.573$   $\chi^2/\text{NDF}$ : 308.1/1

Right Out:  $-11.943 \pm 0.108$   $\chi^2/\text{NDF}$ : 2527.1/18

Left In:  $-29.363 \pm 0.444$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-19.104 \pm 0.351$   $\chi^2/\text{NDF}$ : 1734.1/2

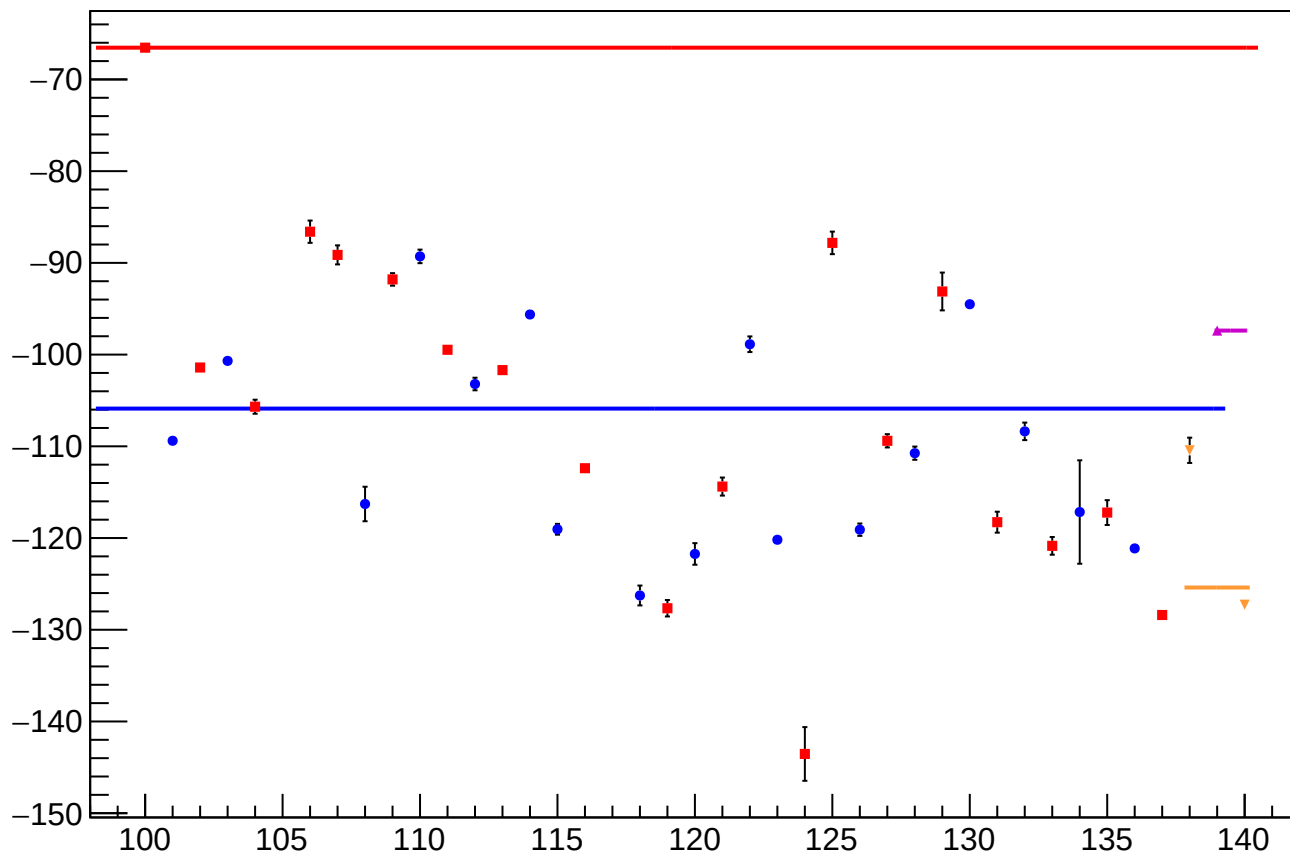
Right:  $-12.264 \pm 0.000$   $\chi^2/\text{NDF}$ : 4380.1/35

In:  $-12.264 \pm 0.000$   $\chi^2/\text{NDF}$ : 3329.9/17

Out:  $-11.603 \pm 0.106$   $\chi^2/\text{NDF}$ : 3125.9/20

All:  $-12.264 \pm 0.000$   $\chi^2/\text{NDF}$ : 6494.6/38

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-105.886 \pm 0.108$   $\chi^2/\text{NDF}$ : 6351.6/16

Left Out:  $-125.396 \pm 0.460$   $\chi^2/\text{NDF}$ : 132.5/1

Right Out:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 794335.4/18

Left In:  $-97.382 \pm 0.356$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-107.869 \pm 0.281$   $\chi^2/\text{NDF}$ : 2455.5/2

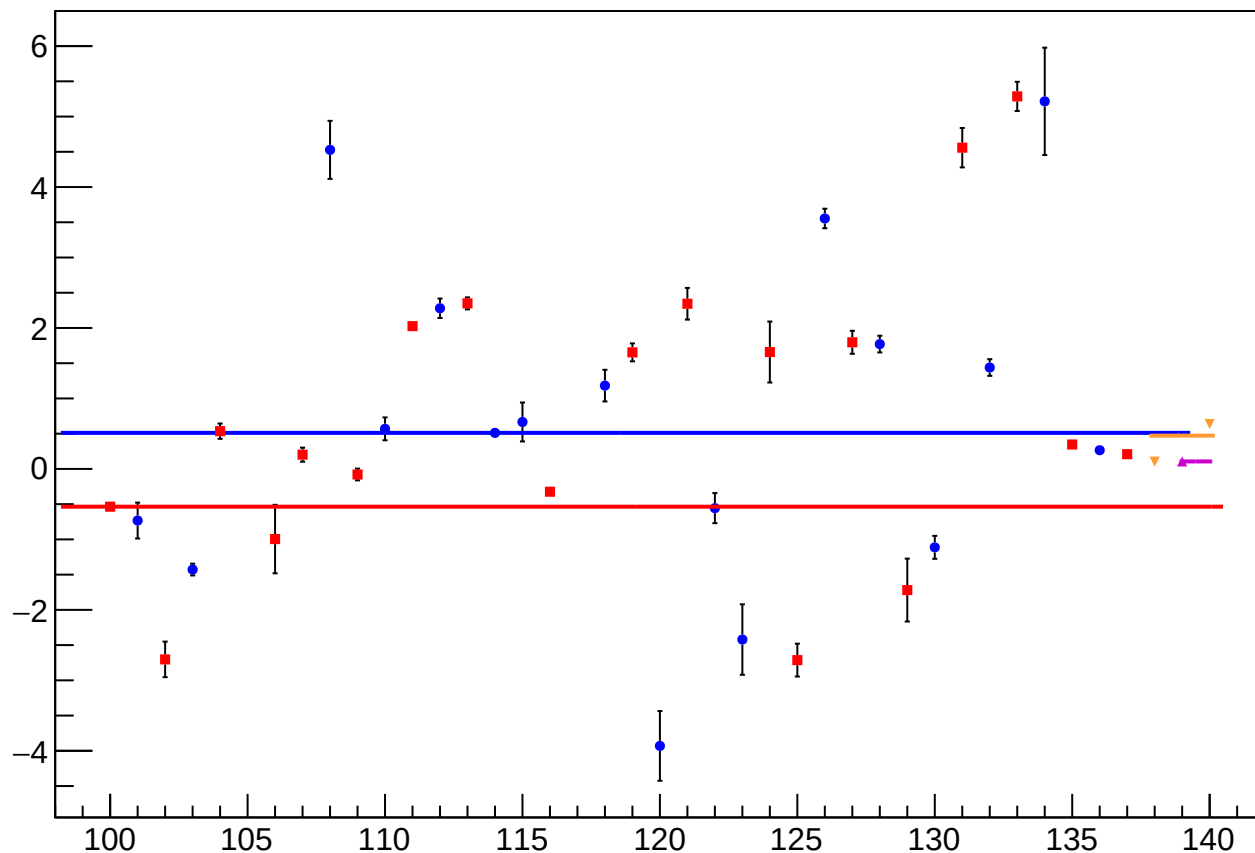
Right:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 934616.3/35

In:  $-105.174 \pm 0.103$   $\chi^2/\text{NDF}$ : 6875.6/17

Out:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 810858.4/20

All:  $-66.536 \pm 0.000$   $\chi^2/\text{NDF}$ : 958662.1/38

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.512 $\pm$ 0.000  $\chi^2$ /NDF: 3863.6/16

Left Out: 0.472 $\pm$ 0.010  $\chi^2$ /NDF:668.2/1

Right Out: -0.536 $\pm$ 0.000  $\chi^2$ /NDF: 33055.3/18

Left In: 0.106 $\pm$ 0.009  $\chi^2$ /NDF:0.0/0

Left: 0.276 $\pm$ 0.007  $\chi^2$ /NDF: 1451.7/2

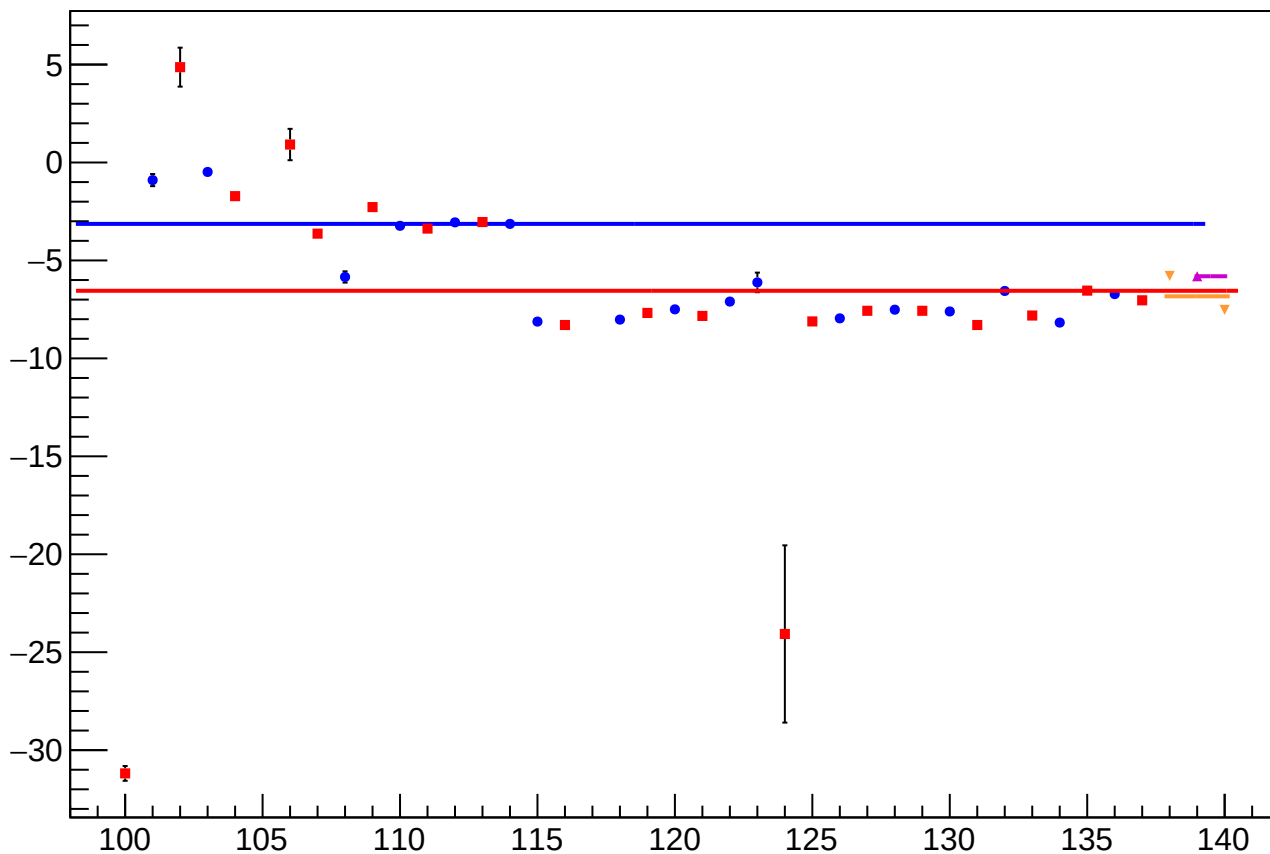
Right: 0.142 $\pm$ 0.000  $\chi^2$ /NDF: 34560328403056077

In: 0.512 $\pm$ 0.000  $\chi^2$ /NDF:5934.0/17

Out: -0.536 $\pm$ 0.000  $\chi^2$ /NDF:44815.1/20

All: 0.142 $\pm$ 0.000  $\chi^2$ /NDF: 34560328403056

# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 368547.6/16

Left Out:  $-6.833 \pm 0.037$   $\chi^2/\text{NDF}$ : 532.8/1

Right Out:  $-6.549 \pm 0.008$   $\chi^2/\text{NDF}$ : 92207.3/18

Left In:  $-5.808 \pm 0.020$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-6.049 \pm 0.018$   $\chi^2/\text{NDF}$ : 1126.3/2

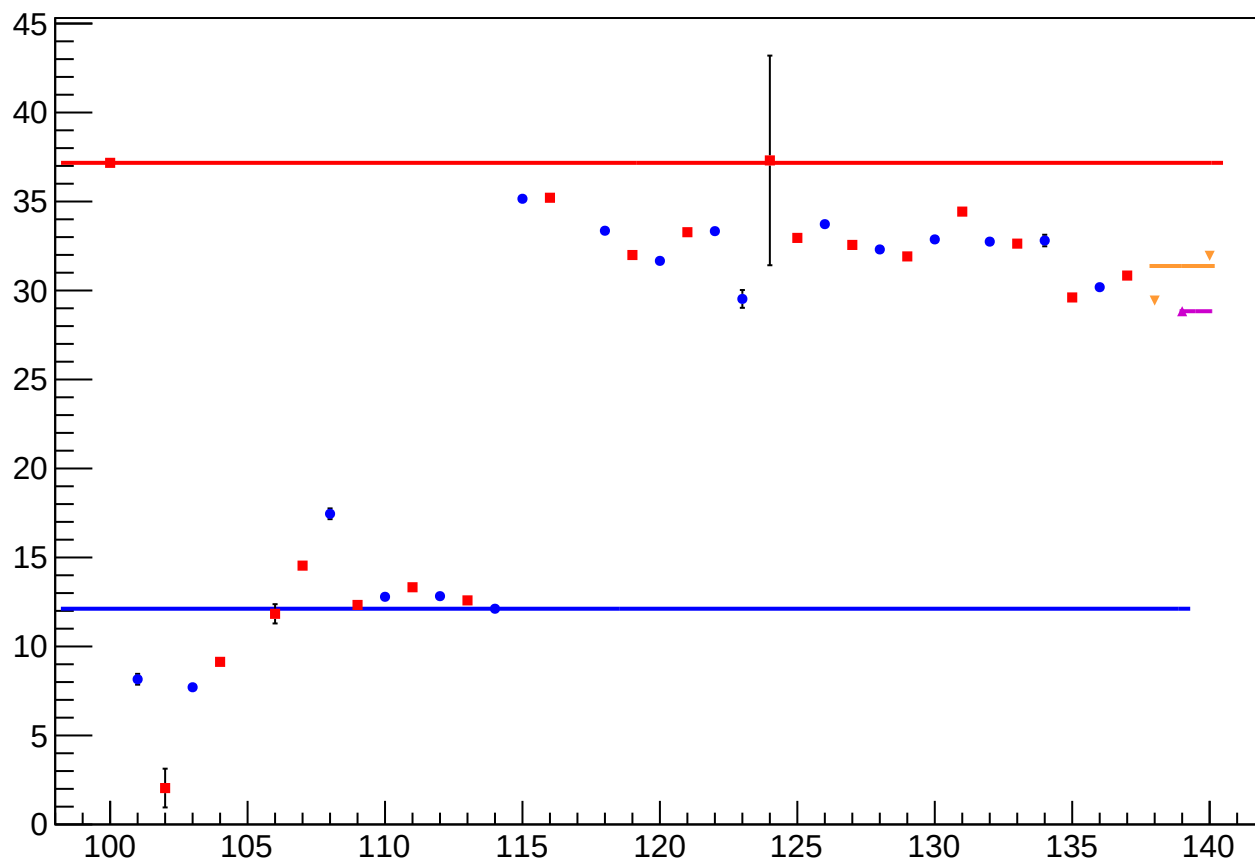
Right:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 667054.5/35

In:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 385701.7/17

Out:  $-6.561 \pm 0.007$   $\chi^2/\text{NDF}$ : 92797.0/20

All:  $-3.134 \pm 0.000$   $\chi^2/\text{NDF}$ : 694850.1/38

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 12.121+/-0.000  $\chi^2/\text{NDF}$ : 1993680.8/16

Left Out: 31.377+/-0.048  $\chi^2/\text{NDF}$ : 488.4/1

Right Out: 37.173+/-0.000  $\chi^2/\text{NDF}$ : 1531278.0/18

Left In: 28.836+/-0.043  $\chi^2/\text{NDF}$ : 0.0/0

Left: 29.986+/-0.032  $\chi^2/\text{NDF}$ : 2037.8/2

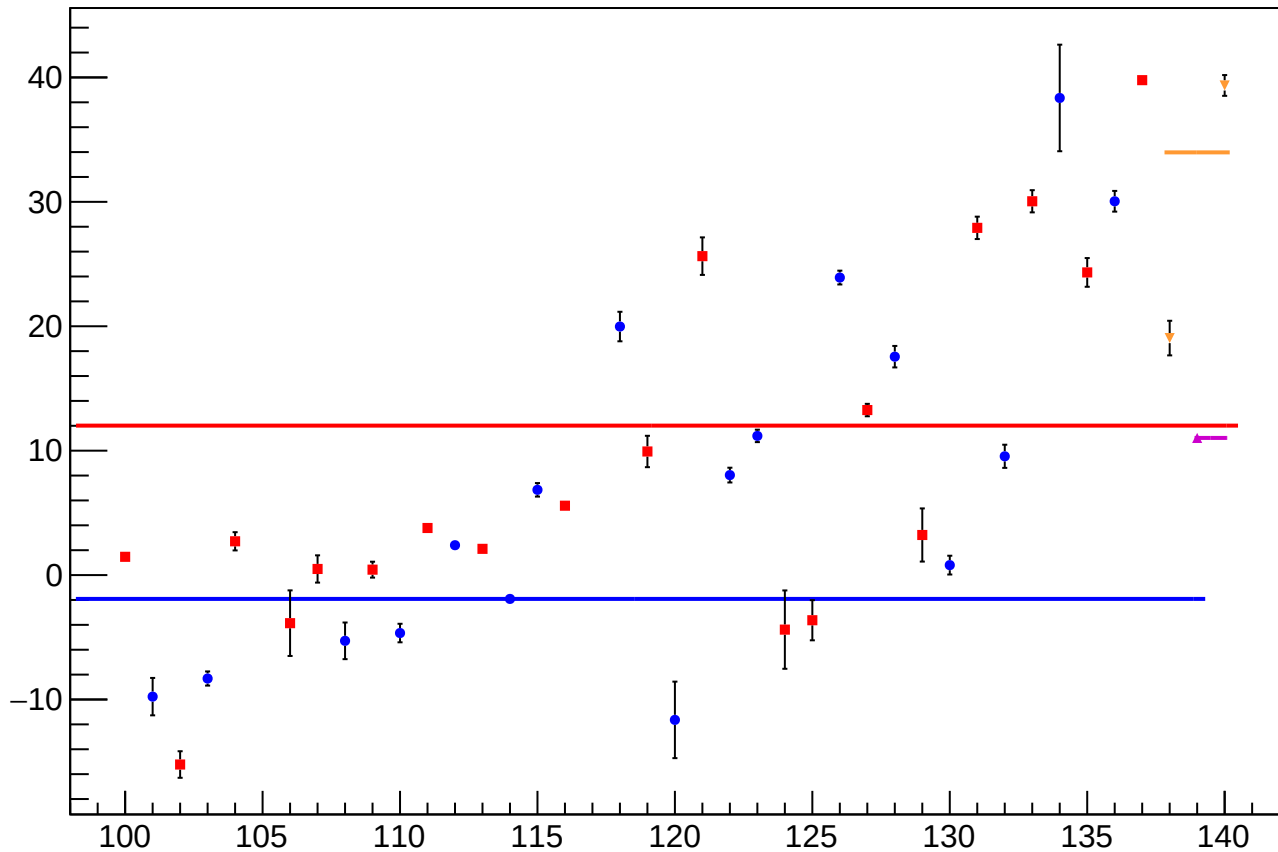
Right: 15.127+/-0.000  $\chi^2/\text{NDF}$ : 6563554116066231

In: 12.121+/-0.000  $\chi^2/\text{NDF}$ : 2141797.8/17

Out: 37.173+/-0.000  $\chi^2/\text{NDF}$ : 1546500.3/20

All: 15.127+/-0.000  $\chi^2/\text{NDF}$ : 6563554116066231

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 6338.8/16

Left Out:  $33.976 \pm 0.716$   $\chi^2/\text{NDF}$ : 156.6/1

Right Out:  $12.014 \pm 0.135$   $\chi^2/\text{NDF}$ : 12576.1/18

Left In:  $11.025 \pm 0.322$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $14.890 \pm 0.294$   $\chi^2/\text{NDF}$ : 1011.2/2

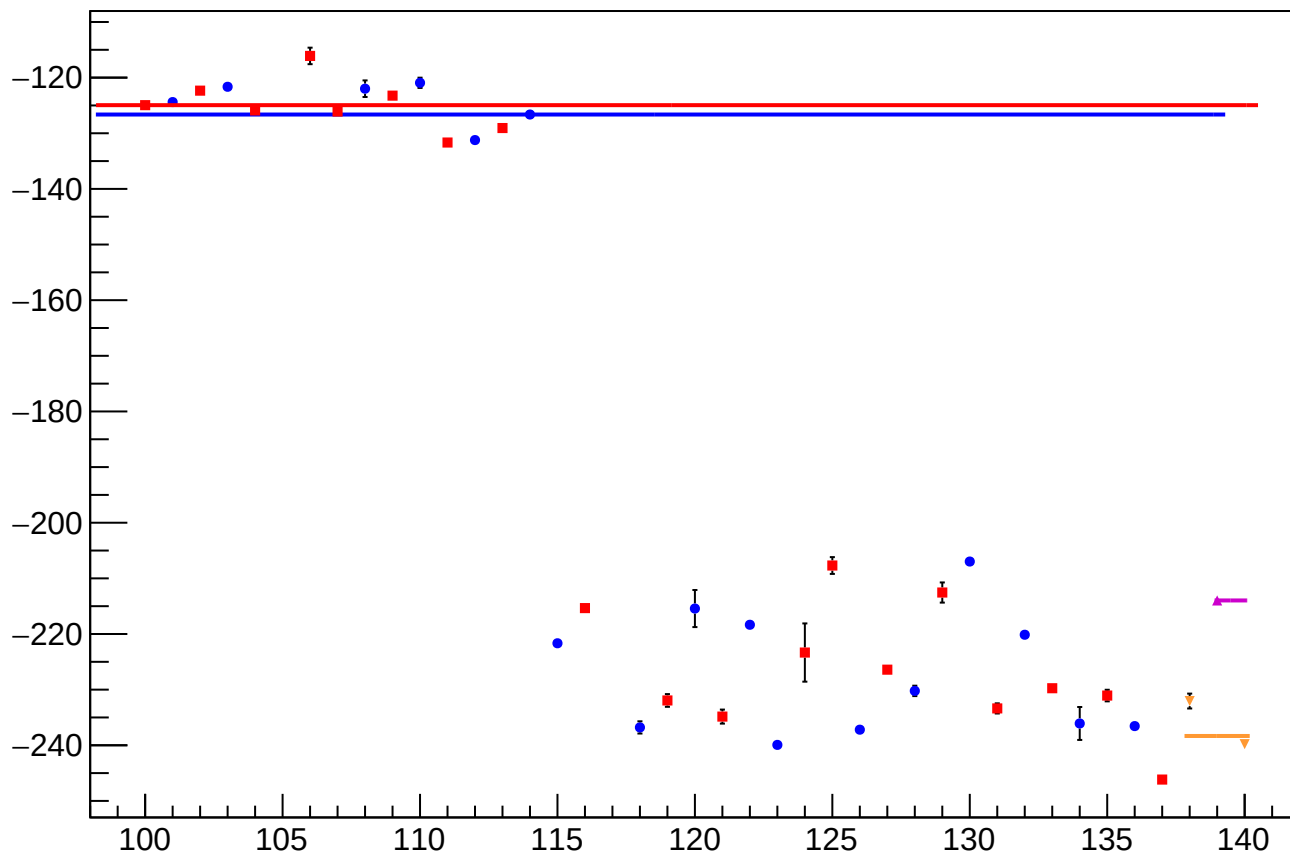
Right:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 29534.8/35

In:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 7951.4/17

Out:  $12.770 \pm 0.133$   $\chi^2/\text{NDF}$ : 13641.3/20

All:  $-1.915 \pm 0.000$   $\chi^2/\text{NDF}$ : 33817.0/38

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-126.632 \pm 0.000$   $\chi^2/\text{NDF}: 278525.1/16$

Left Out:  $-238.328 \pm 0.582$   $\chi^2/\text{NDF}: 27.2/1$

Right Out:  $-124.949 \pm 0.000$   $\chi^2/\text{NDF}: 470459.3/18$

Left In:  $-213.970 \pm 0.284$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-218.647 \pm 0.255$   $\chi^2/\text{NDF}: 1440.7/2$

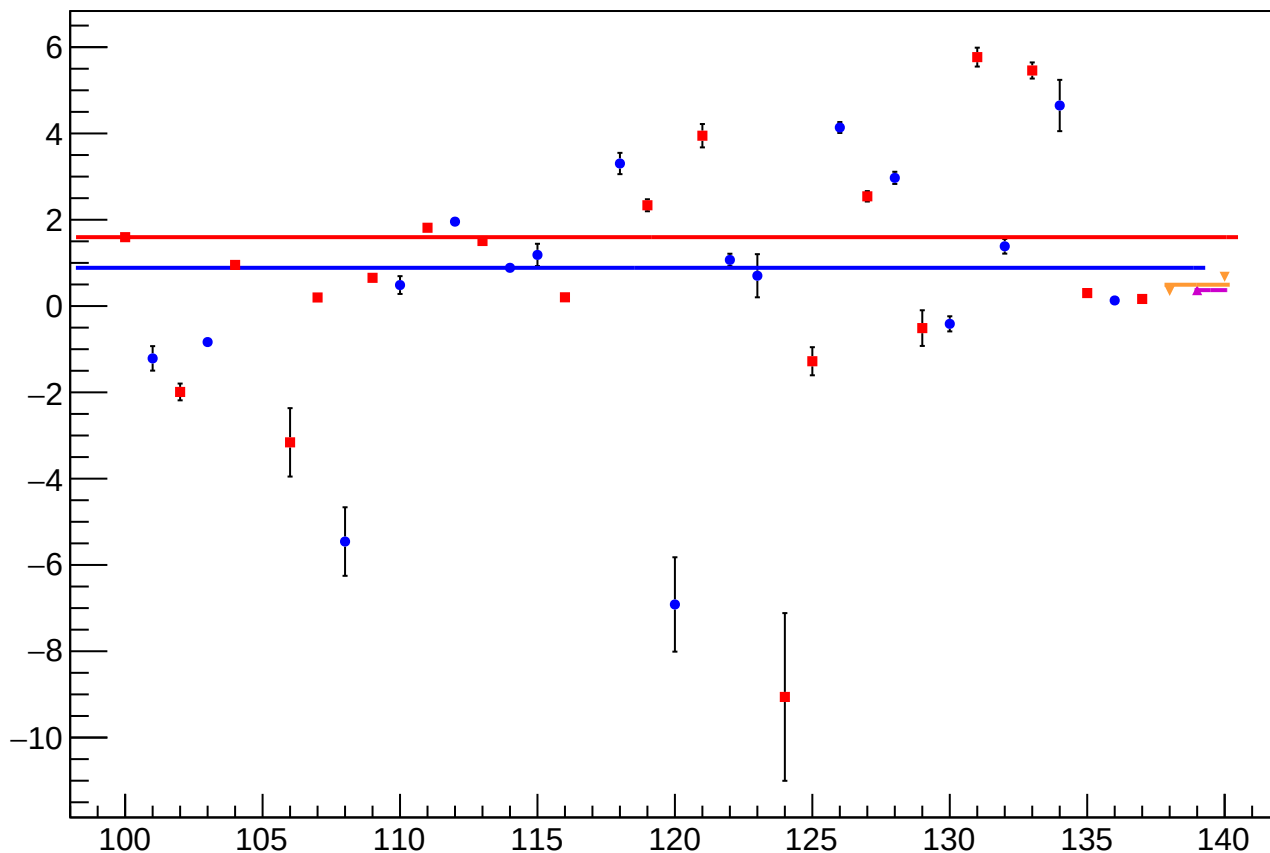
Right:  $-126.038 \pm 0.000$   $\chi^2/\text{NDF}: 60537895424820$

In:  $-126.632 \pm 0.000$   $\chi^2/\text{NDF}: 373153.1/17$

Out:  $-124.949 \pm 0.000$   $\chi^2/\text{NDF}: 508386.8/20$

All:  $-126.038 \pm 0.000$   $\chi^2/\text{NDF}: 60537895424$

# dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.886 \pm 0.000$   $\chi^2/\text{NDF}: 9294.4/16$

Left Out:  $0.494 \pm 0.011$   $\chi^2/\text{NDF}: 213.2/1$

Right Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 4615.5/18$

Left In:  $0.369 \pm 0.012$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.434 \pm 0.008$   $\chi^2/\text{NDF}: 274.0/2$

Right:  $1.137 \pm 0.000$   $\chi^2/\text{NDF}: 39737604737084083$

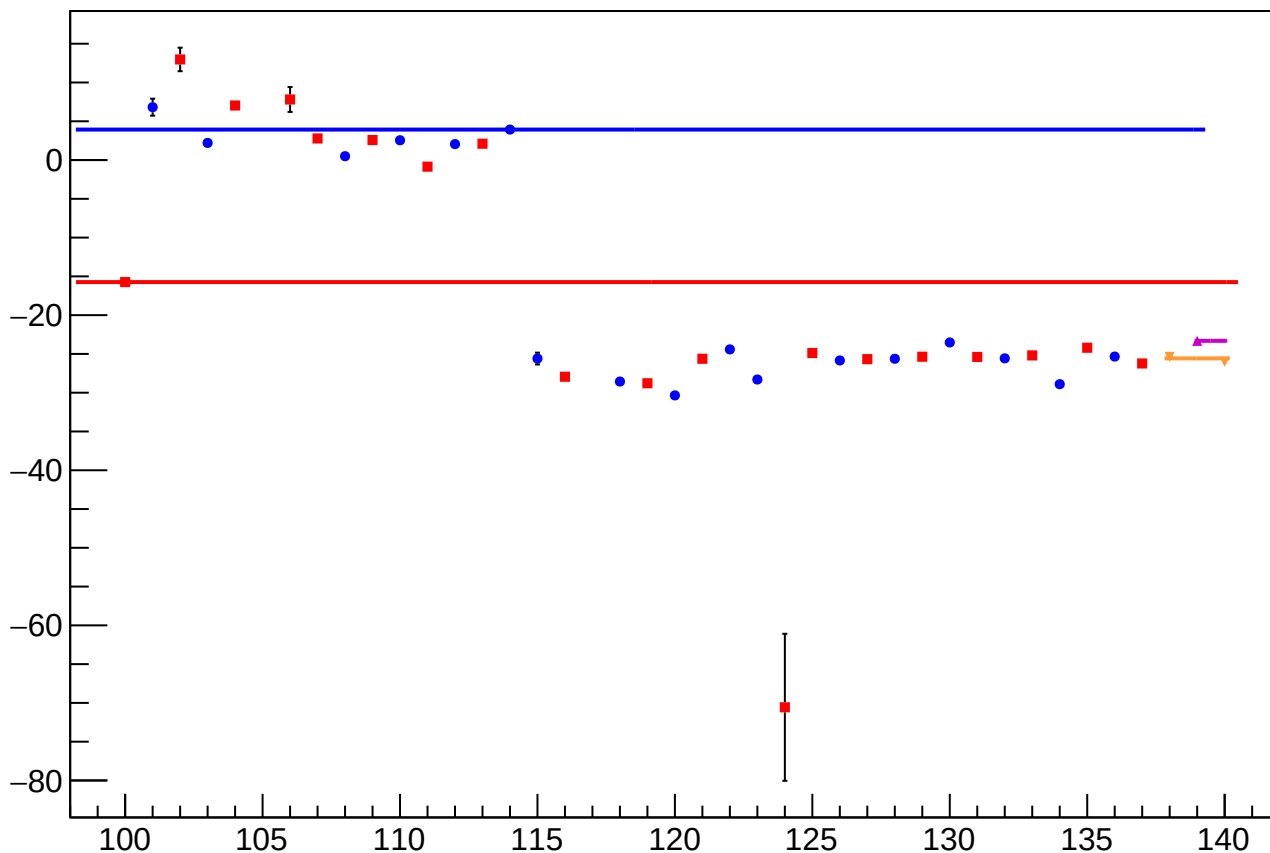
In:  $0.886 \pm 0.000$   $\chi^2/\text{NDF}: 11290.2/17$

Out:  $1.597 \pm 0.000$   $\chi^2/\text{NDF}: 14609.9/20$

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:  $-25.573 \pm 0.084$   $\chi^2/\text{NDF}: 12.3/1$

Right Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}: 267951.2/18$

Left In:  $-23.313 \pm 0.084$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-24.445 \pm 0.060$   $\chi^2/\text{NDF}: 370.7/2$

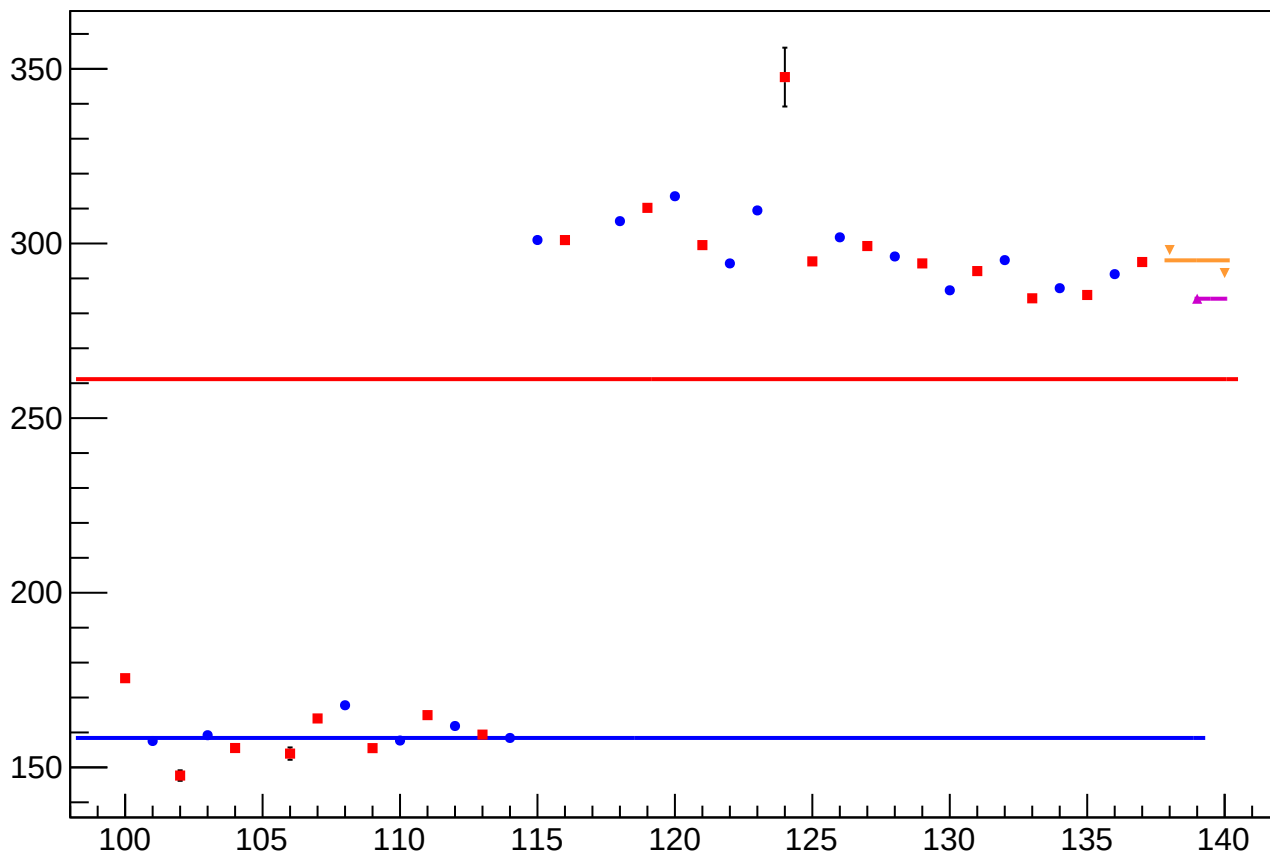
Right:  $3.282 \pm 0.000$   $\chi^2/\text{NDF}: 71120480173548026$

In:  $3.930 \pm 0.000$   $\chi^2/\text{NDF}: 6244814.0/17$

Out:  $-15.737 \pm 0.000$   $\chi^2/\text{NDF}: 281563.9/20$

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: 295.175+/-0.145  $\chi^2/\text{NDF}$ : 513.4/1

Right Out: 261.159+/-0.058  $\chi^2/\text{NDF}$ : 1071248.7/18

Left In: 284.190+/-0.271  $\chi^2/\text{NDF}$ : 0.0/0

Left: 292.746+/-0.128  $\chi^2/\text{NDF}$ : 1788.6/2

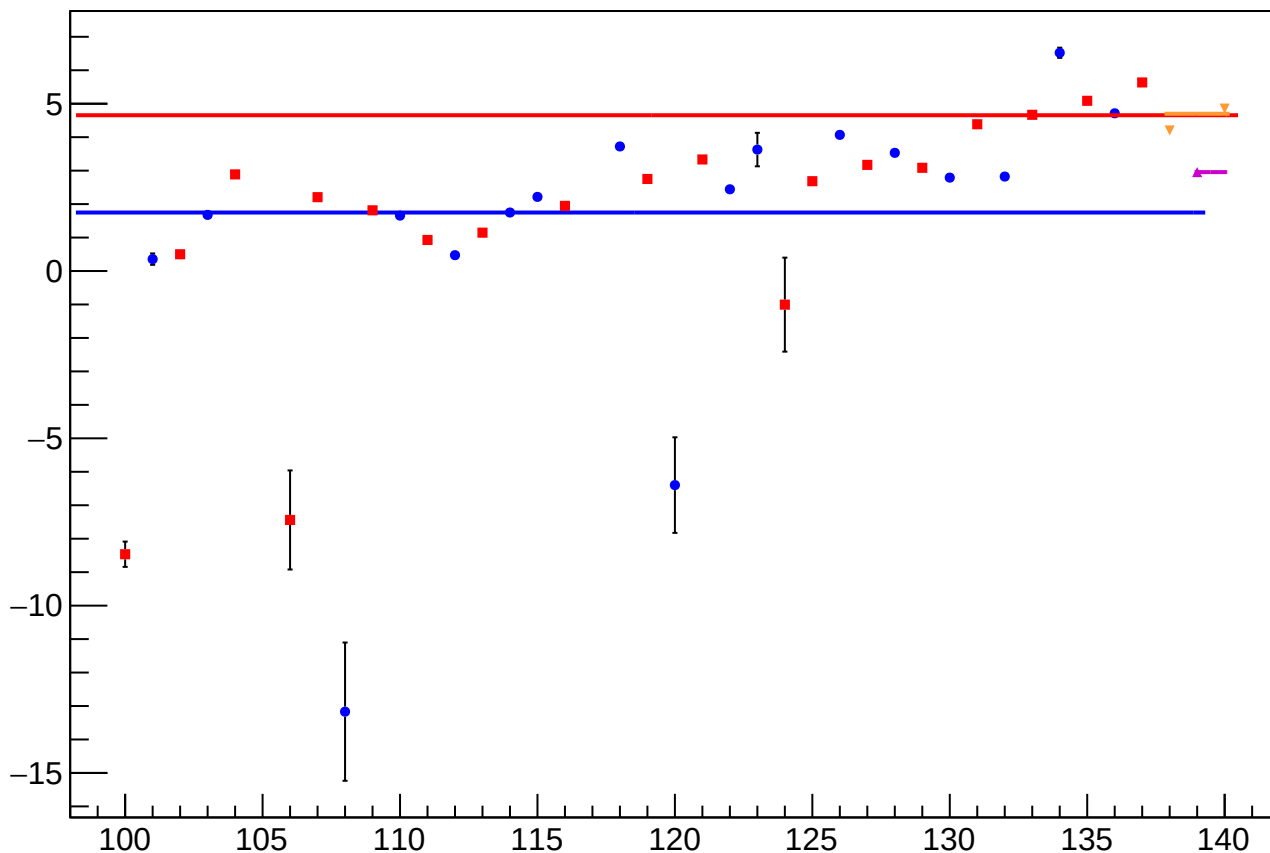
Right: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 7687009.8/35

In: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 3731285.0/17

Out: 265.920+/-0.054  $\chi^2/\text{NDF}$ : 1119325.0/20

All: 158.426+/-0.000  $\chi^2/\text{NDF}$ : 8795873.2/38

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 11344.3/16

Left Out: 4.700 $\pm$ 0.071  $\chi^2$ /NDF:15.1/1

Right Out: 4.656 $\pm$ 0.006  $\chi^2$ /NDF: 68303.7/18

Left In: 2.956 $\pm$ 0.038  $\chi^2$ /NDF:0.0/0

Left: 3.348 $\pm$ 0.034  $\chi^2$ /NDF: 480.5/2

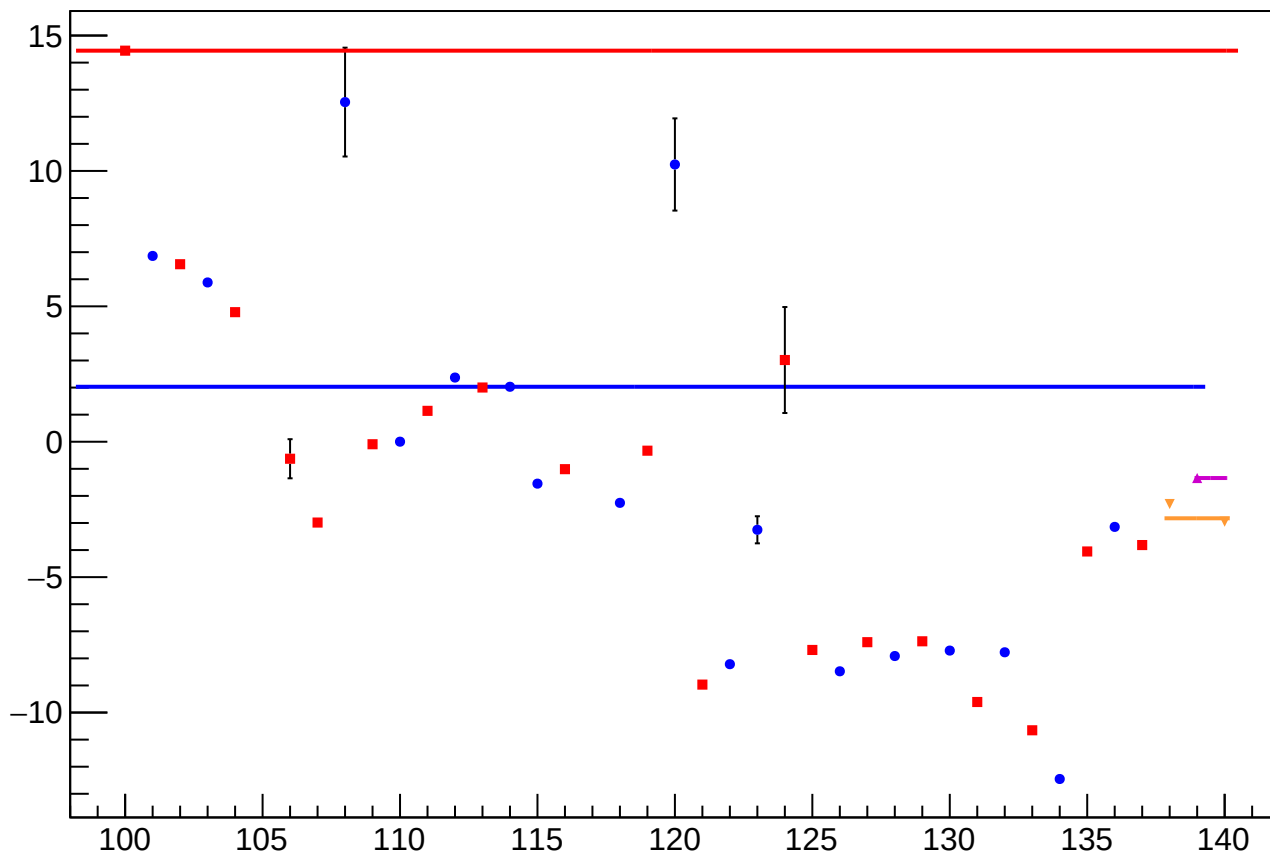
Right: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 288719.9/35

In: 1.748 $\pm$ 0.000  $\chi^2$ /NDF:12337.5/17

Out: 4.656 $\pm$ 0.006  $\chi^2$ /NDF:68319.2/20

All: 1.748 $\pm$ 0.000  $\chi^2$ /NDF: 291447.9/38

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In:  $2.030 \pm 0.000$   $\chi^2/\text{NDF}$ : 202792.6/16

Left Out:  $-2.827 \pm 0.061$   $\chi^2/\text{NDF}$ : 18.0/1

Right Out:  $14.441 \pm 0.000$   $\chi^2/\text{NDF}$ : 5836025.9/18

Left In:  $-1.340 \pm 0.048$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.907 \pm 0.038$   $\chi^2/\text{NDF}$ : 386.0/2

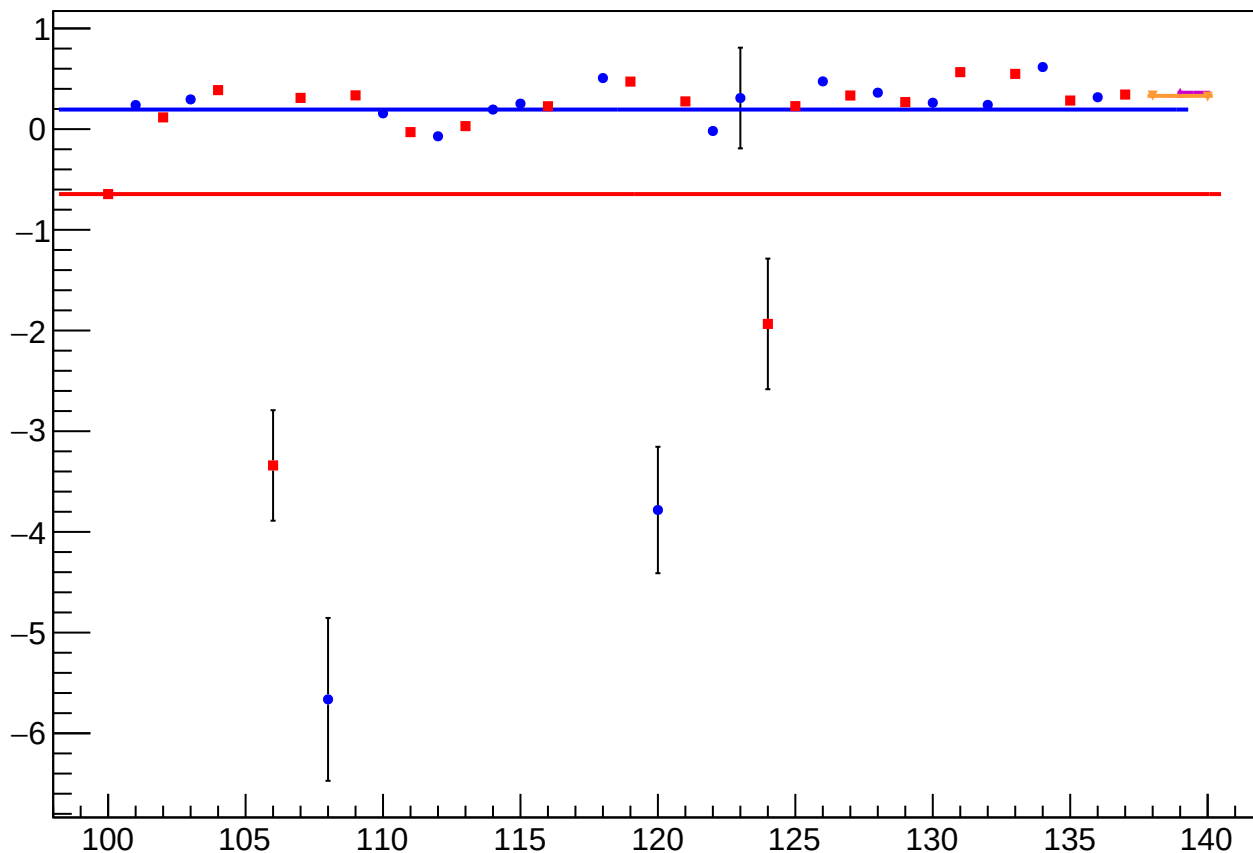
Right:  $2.439 \pm 0.000$   $\chi^2/\text{NDF}$ : 70811145349033114

In:  $2.030 \pm 0.000$   $\chi^2/\text{NDF}$ : 207749.6/17

Out:  $14.441 \pm 0.000$   $\chi^2/\text{NDF}$ : 5916259.7/20

All:  $2.439 \pm 0.000$   $\chi^2/\text{NDF}$ : 70811145349033

# dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.194+/-0.000  $\chi^2/\text{NDF}$ : 9617.3/16

Left Out: 0.330+/-0.002  $\chi^2/\text{NDF}$ :8.3/1

Right Out: -0.645+/-0.000  $\chi^2/\text{NDF}$ : 191963.2/18

Left In: 0.362+/-0.006  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.333+/-0.002  $\chi^2/\text{NDF}$ : 35.7/2

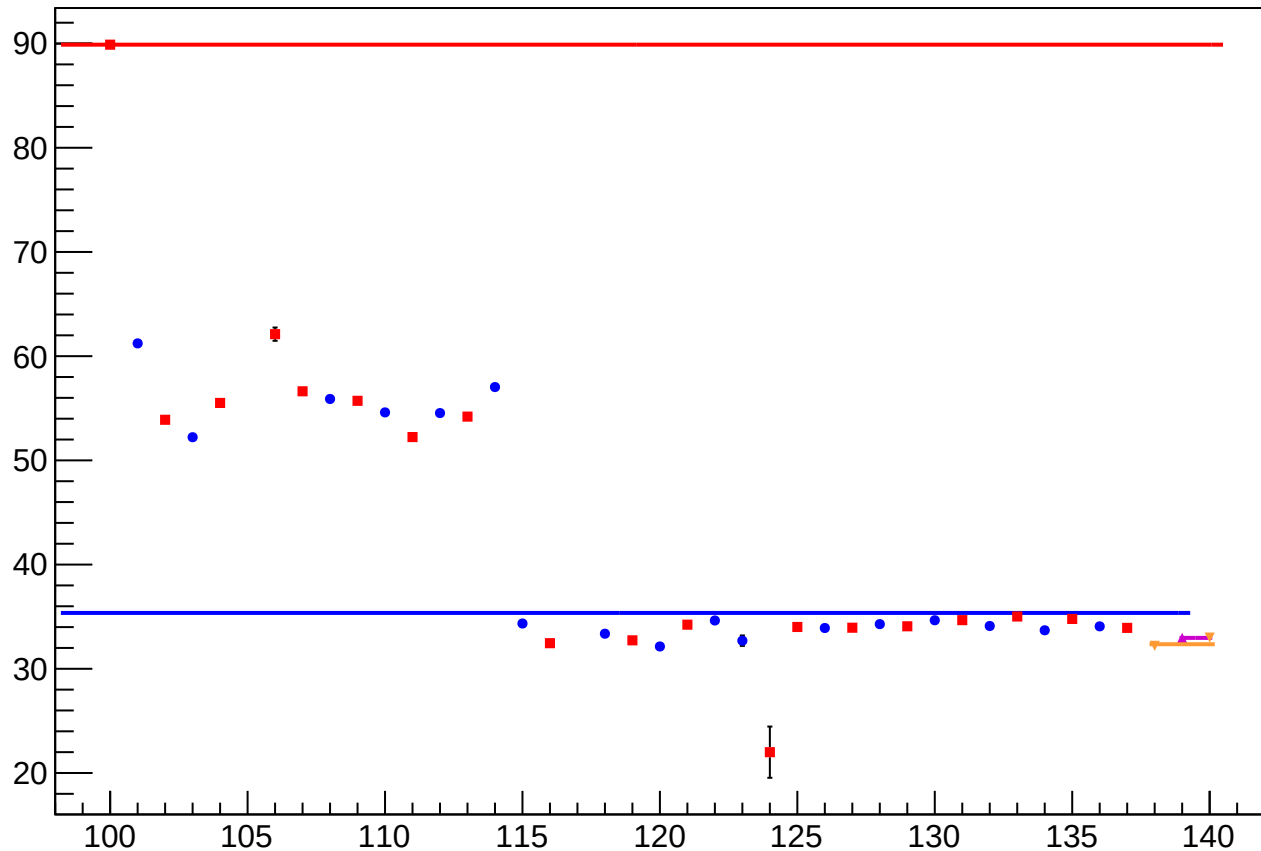
Right: 0.167+/-0.000  $\chi^2/\text{NDF}$ : 33165765284559017

In: 0.194+/-0.000  $\chi^2/\text{NDF}$ :10461.3/17

Out: -0.645+/-0.000  $\chi^2/\text{NDF}$ :550130.6/20

All: 0.167+/-0.000  $\chi^2/\text{NDF}$ : 33165765284559017

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 35.361+/-0.011  $\chi^2/\text{NDF}$ : 204481.2/16

Left Out: 32.356+/-0.022  $\chi^2/\text{NDF}$ : 204.6/1

Right Out: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 68670863.1/18

Left In: 32.966+/-0.029  $\chi^2/\text{NDF}$ : 0.0/0

Left: 32.579+/-0.017  $\chi^2/\text{NDF}$ : 487.6/2

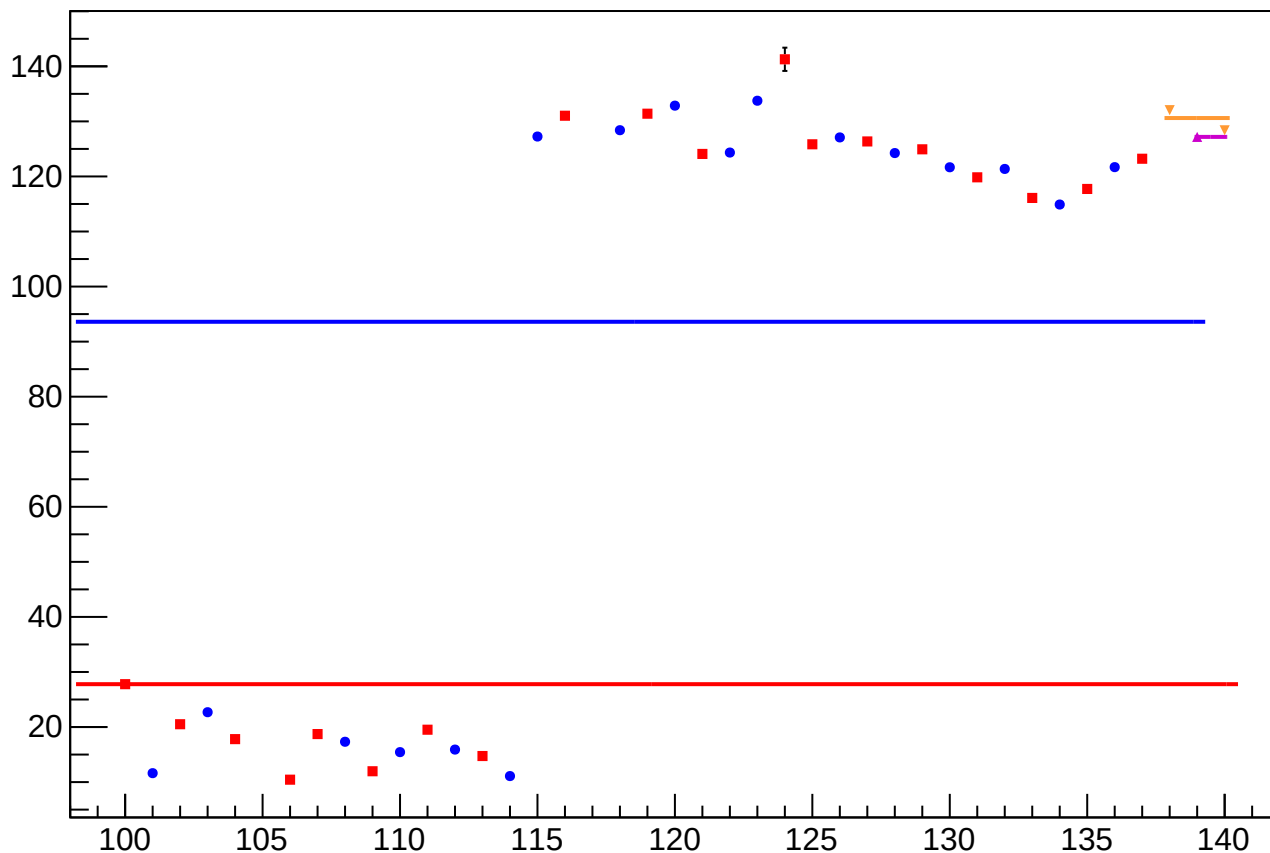
Right: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 93132320.2/35

In: 35.053+/-0.010  $\chi^2/\text{NDF}$ : 210491.6/17

Out: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 75566838.0/20

All: 89.893+/-0.000  $\chi^2/\text{NDF}$ : 103923675.6/38

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In: 93.605+/-0.027  $\chi^2/\text{NDF}$ : 2987877.5/16

Left Out: 130.609+/-0.057  $\chi^2/\text{NDF}$ :992.4/1

Right Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 7919263.8/18

Left In: 127.184+/-0.097  $\chi^2/\text{NDF}$ :0.0/0

Left: 129.734+/-0.049  $\chi^2/\text{NDF}$ : 1926.0/2

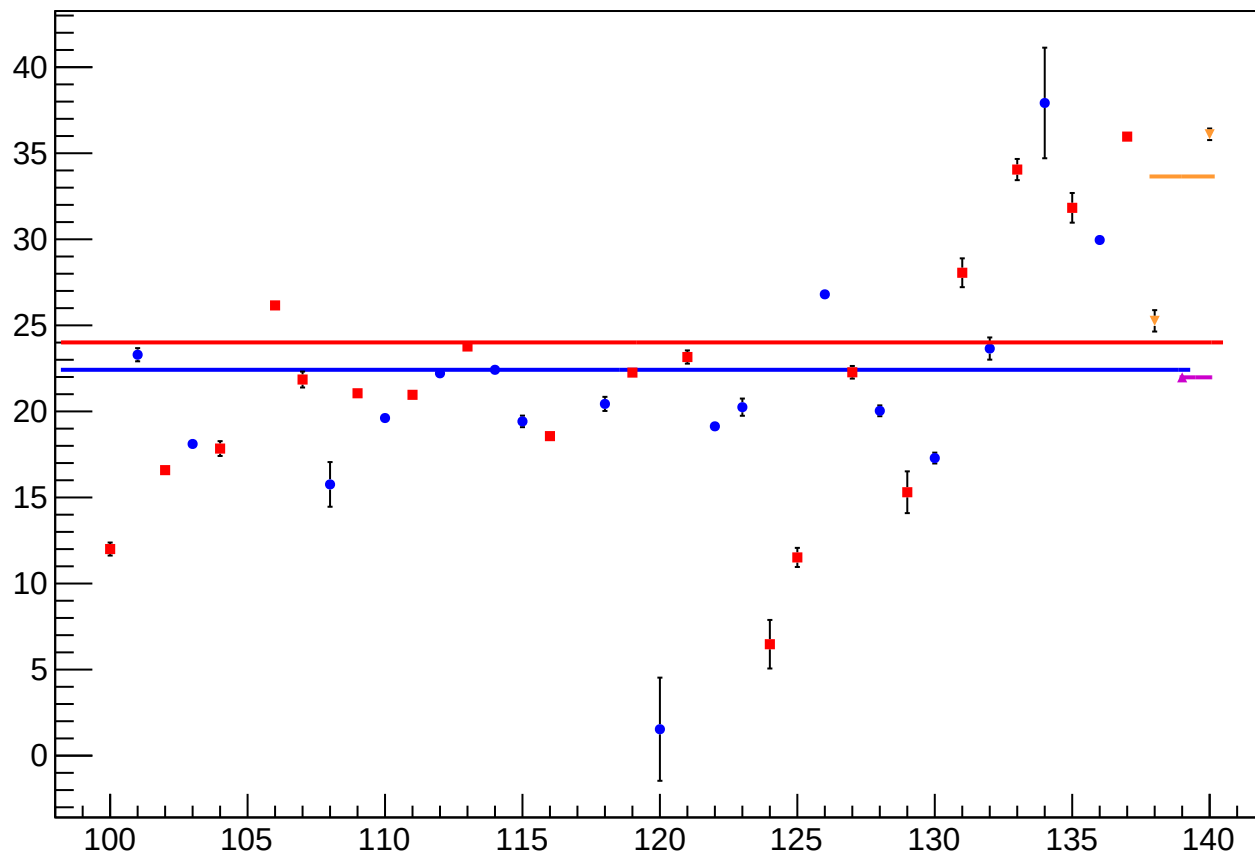
Right: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 16894092.4/35

In: 96.015+/-0.026  $\chi^2/\text{NDF}$ :3099702.3/17

Out: 27.785+/-0.000  $\chi^2/\text{NDF}$ :11213807.1/20

All: 27.785+/-0.000  $\chi^2/\text{NDF}$ : 21244272.4/38

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In:  $22.418 \pm 0.000$   $\chi^2/\text{NDF}: 3247.9/16$

Left Out:  $33.650 \pm 0.296$   $\chi^2/\text{NDF}: 235.2/1$

Right Out:  $24.008 \pm 0.058$   $\chi^2/\text{NDF}: 15408.9/18$

Left In:  $21.980 \pm 0.208$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $25.834 \pm 0.170$   $\chi^2/\text{NDF}: 1278.9/2$

Right:  $22.418 \pm 0.000$   $\chi^2/\text{NDF}: 19415.4/35$

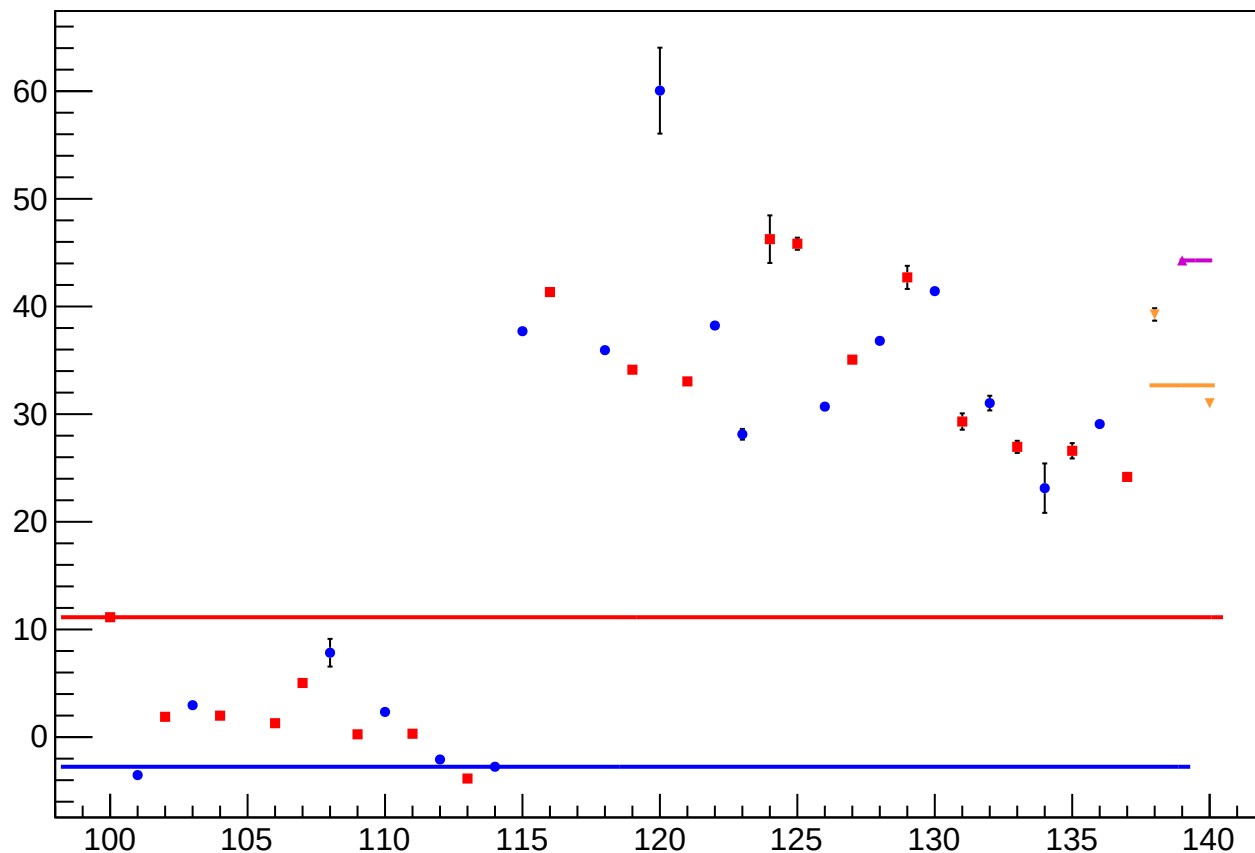
In:  $22.418 \pm 0.000$   $\chi^2/\text{NDF}: 3252.3/17$

Out:  $24.363 \pm 0.057$   $\chi^2/\text{NDF}: 16668.7/20$

All:  $22.418 \pm 0.000$   $\chi^2/\text{NDF}: 21098.7/38$



# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}$ : 149281.3/16

Left Out:  $32.676 \pm 0.261$   $\chi^2/\text{NDF}$ : 161.2/1

Right Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}$ : 2575367.3/18

Left In:  $44.279 \pm 0.173$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $40.715 \pm 0.144$   $\chi^2/\text{NDF}$ : 1534.8/2

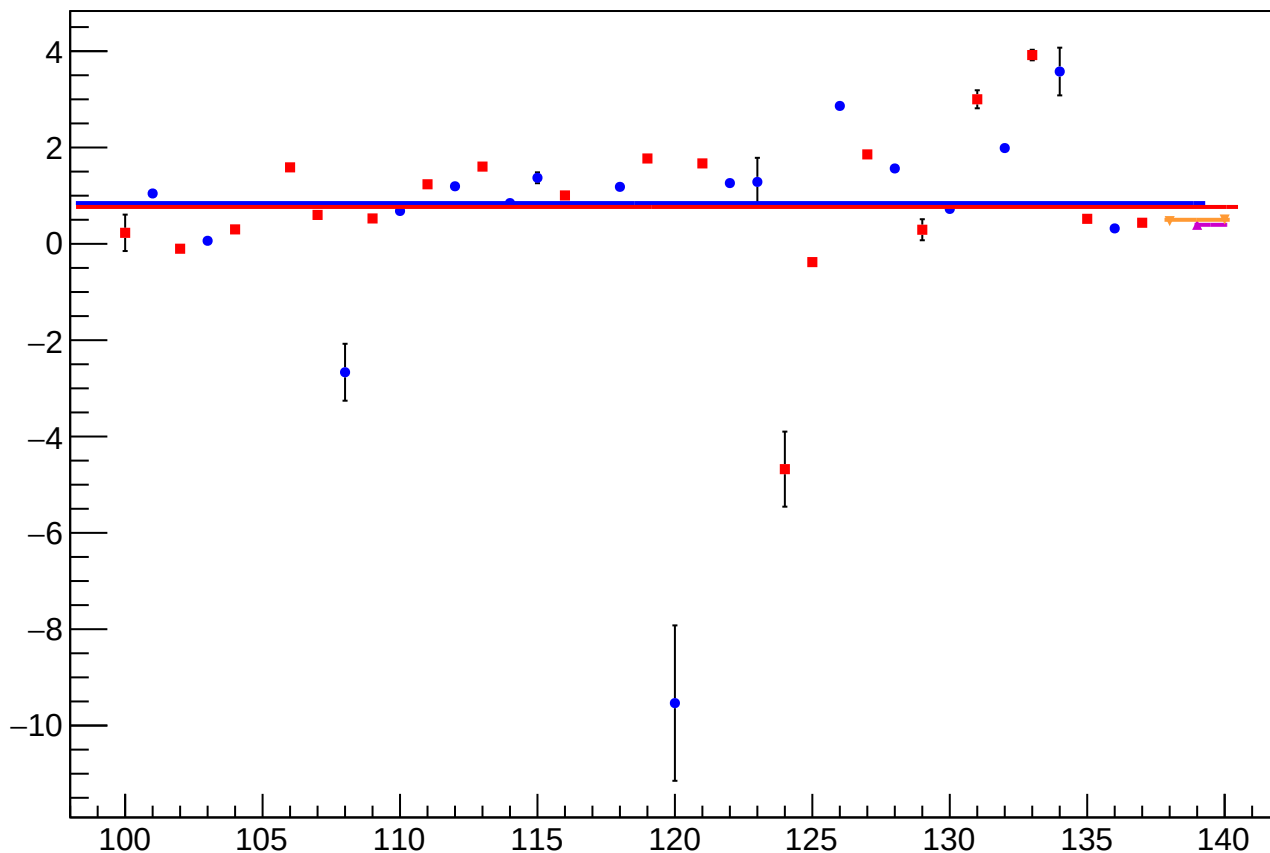
Right:  $-2.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 9095226728437180

In:  $-2.754 \pm 0.000$   $\chi^2/\text{NDF}$ : 222772.3/17

Out:  $11.137 \pm 0.000$   $\chi^2/\text{NDF}$ : 2582359.8/20

All:  $-2.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 9095226728437

# dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.846 \pm 0.000$   $\chi^2/\text{NDF}$ : 16305.8/16

Left Out:  $0.499 \pm 0.004$   $\chi^2/\text{NDF}$ : 8.6/1

Right Out:  $0.766 \pm 0.007$   $\chi^2/\text{NDF}$ : 4211.3/18

Left In:  $0.395 \pm 0.005$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.455 \pm 0.003$   $\chi^2/\text{NDF}$ : 262.4/2

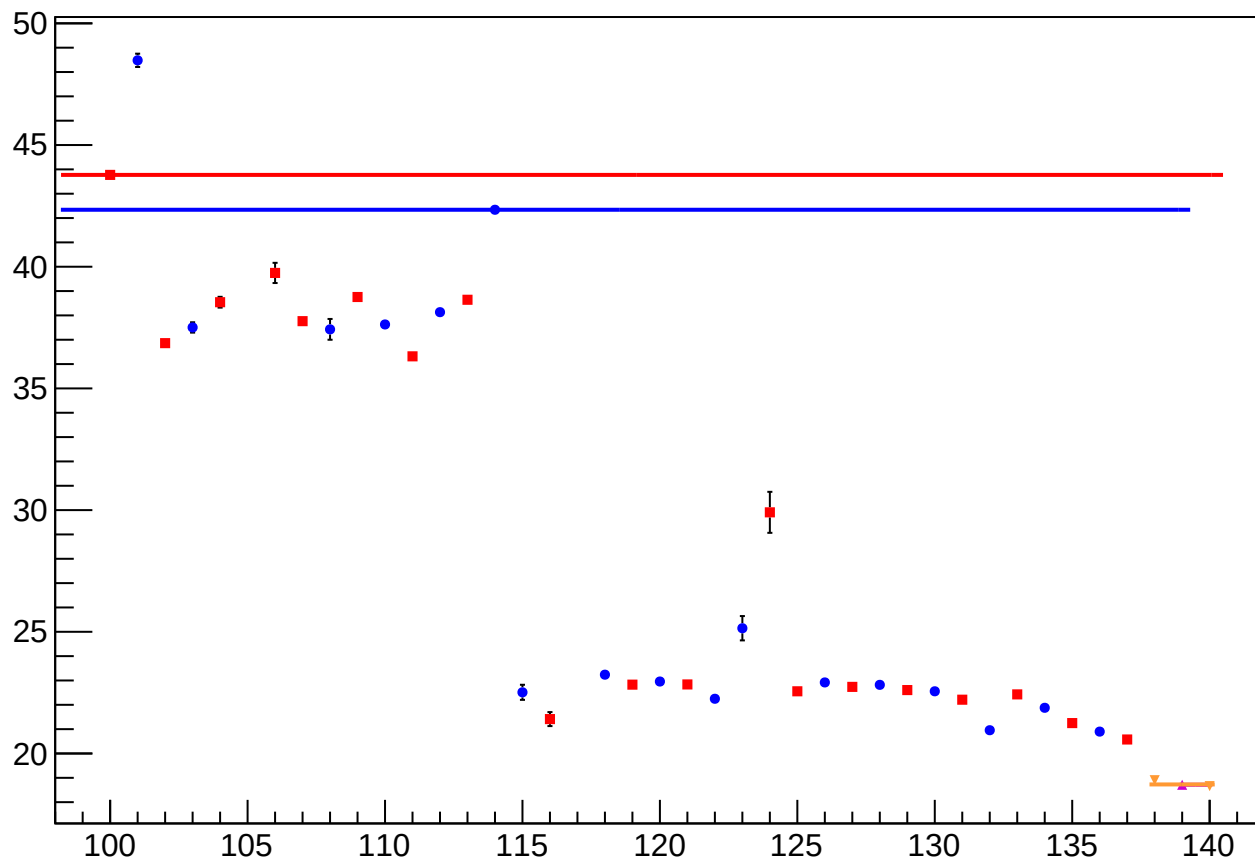
Right:  $0.846 \pm 0.000$   $\chi^2/\text{NDF}$ : 20651.7/35

In:  $0.846 \pm 0.000$   $\chi^2/\text{NDF}$ : 24672.3/17

Out:  $0.573 \pm 0.004$   $\chi^2/\text{NDF}$ : 5291.5/20

All:  $0.846 \pm 0.000$   $\chi^2/\text{NDF}$ : 35589.0/38

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 42.341+/-0.000  $\chi^2/\text{NDF}$ : 4058390.3/16

Left Out: 18.728+/-0.022  $\chi^2/\text{NDF}$ :24.4/1

Right Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ : 4579991.9/18

Left In: 18.715+/-0.030  $\chi^2/\text{NDF}$ :0.0/0

Left: 18.724+/-0.018  $\chi^2/\text{NDF}$ : 24.5/2

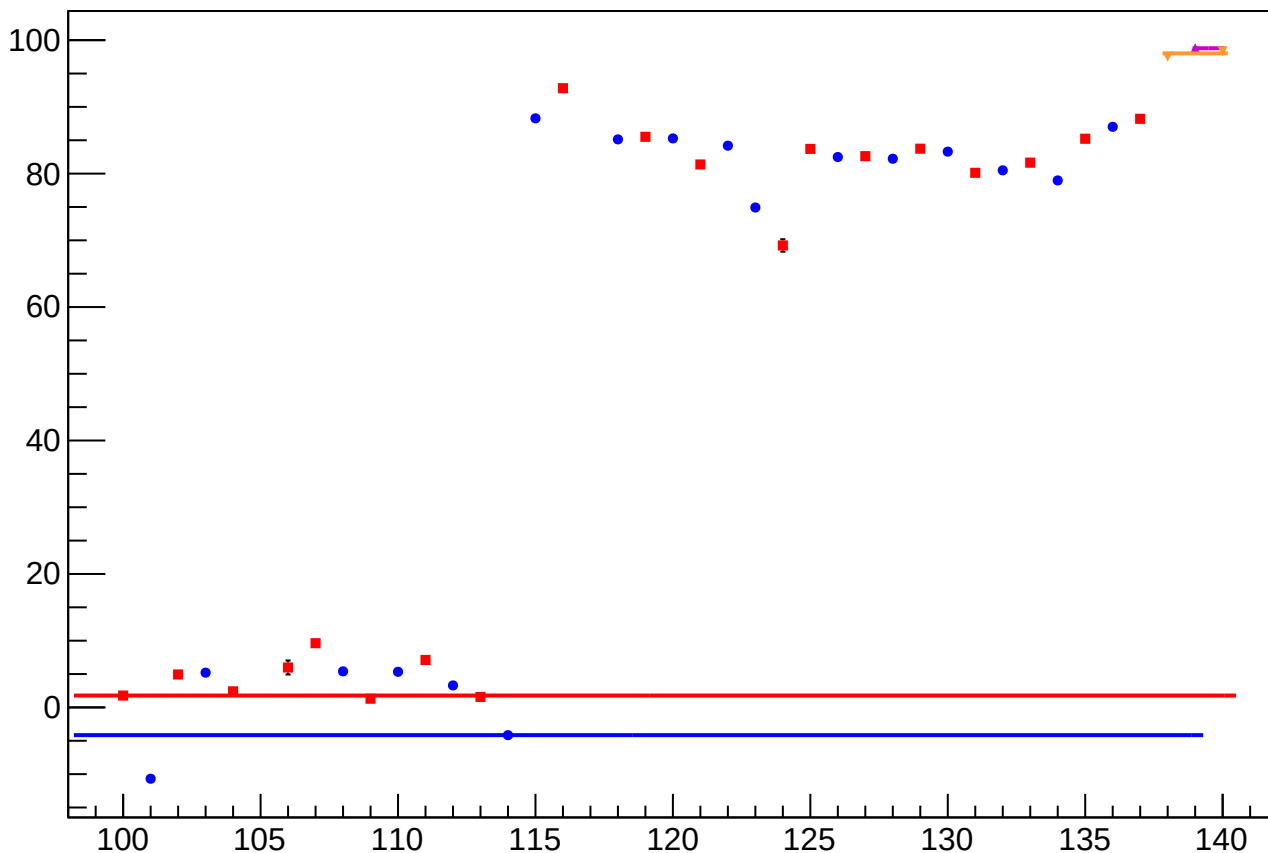
Right: 42.846+/-0.000  $\chi^2/\text{NDF}$ : 1577360390255068

In: 42.341+/-0.000  $\chi^2/\text{NDF}$ :4689954.5/17

Out: 43.773+/-0.000  $\chi^2/\text{NDF}$ :5830260.0/20

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: 98.021+/-0.043  $\chi^2/\text{NDF}$ :78.3/1

Right Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ : 5403608.1/18

Left In: 98.789+/-0.086  $\chi^2/\text{NDF}$ :0.0/0

Left: 98.177+/-0.039  $\chi^2/\text{NDF}$ : 142.2/2

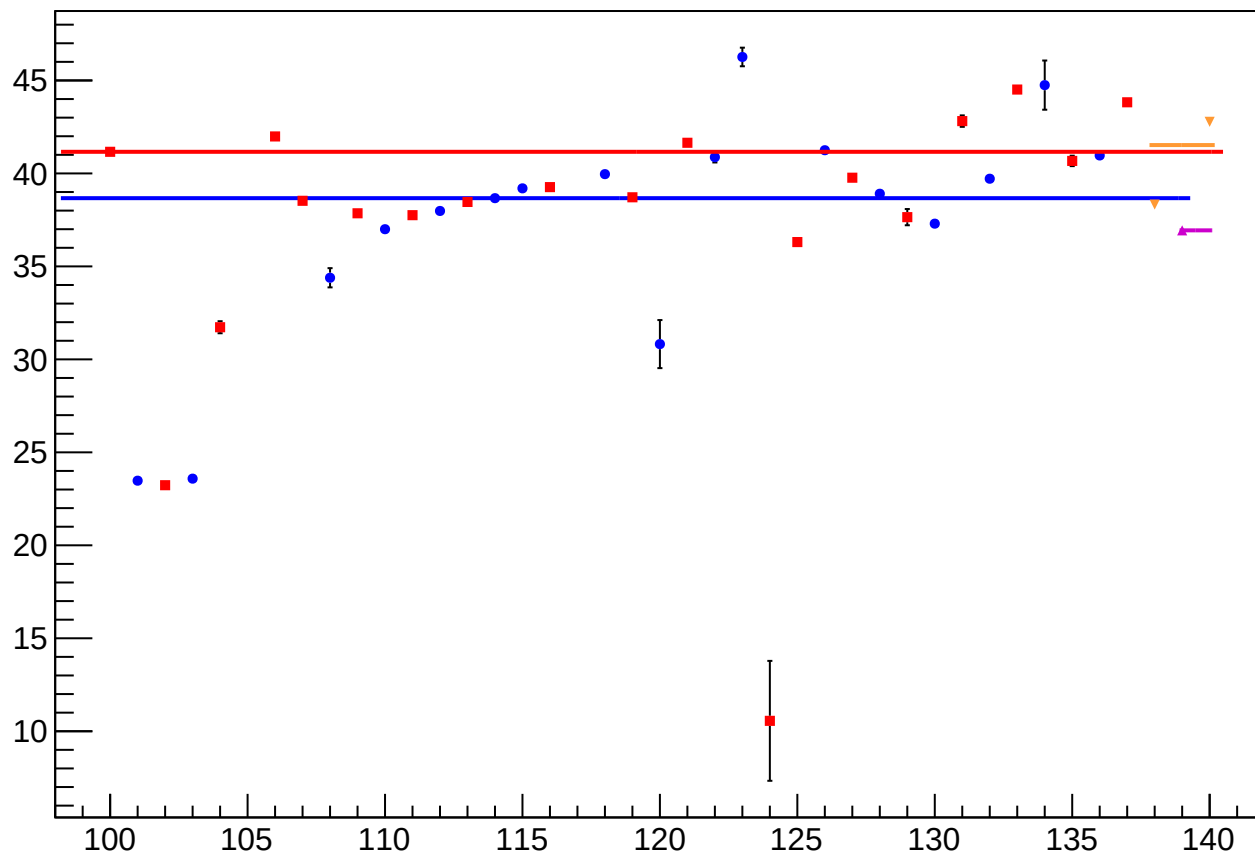
Right: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950686

In: -4.155+/-0.000  $\chi^2/\text{NDF}$ :9724208.9/17

Out: 1.777+/-0.000  $\chi^2/\text{NDF}$ :10340402.1/20

All: 1.167+/-0.000  $\chi^2/\text{NDF}$ : 44022261179950686

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In:  $38.669 \pm 0.000$   $\chi^2/\text{NDF}: 59984.0/16$

Left Out:  $41.525 \pm 0.127$   $\chi^2/\text{NDF}: 249.4/1$

Right Out:  $41.163 \pm 0.000$   $\chi^2/\text{NDF}: 38410.9/18$

Left In:  $36.938 \pm 0.069$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $37.988 \pm 0.061$   $\chi^2/\text{NDF}: 1260.8/2$

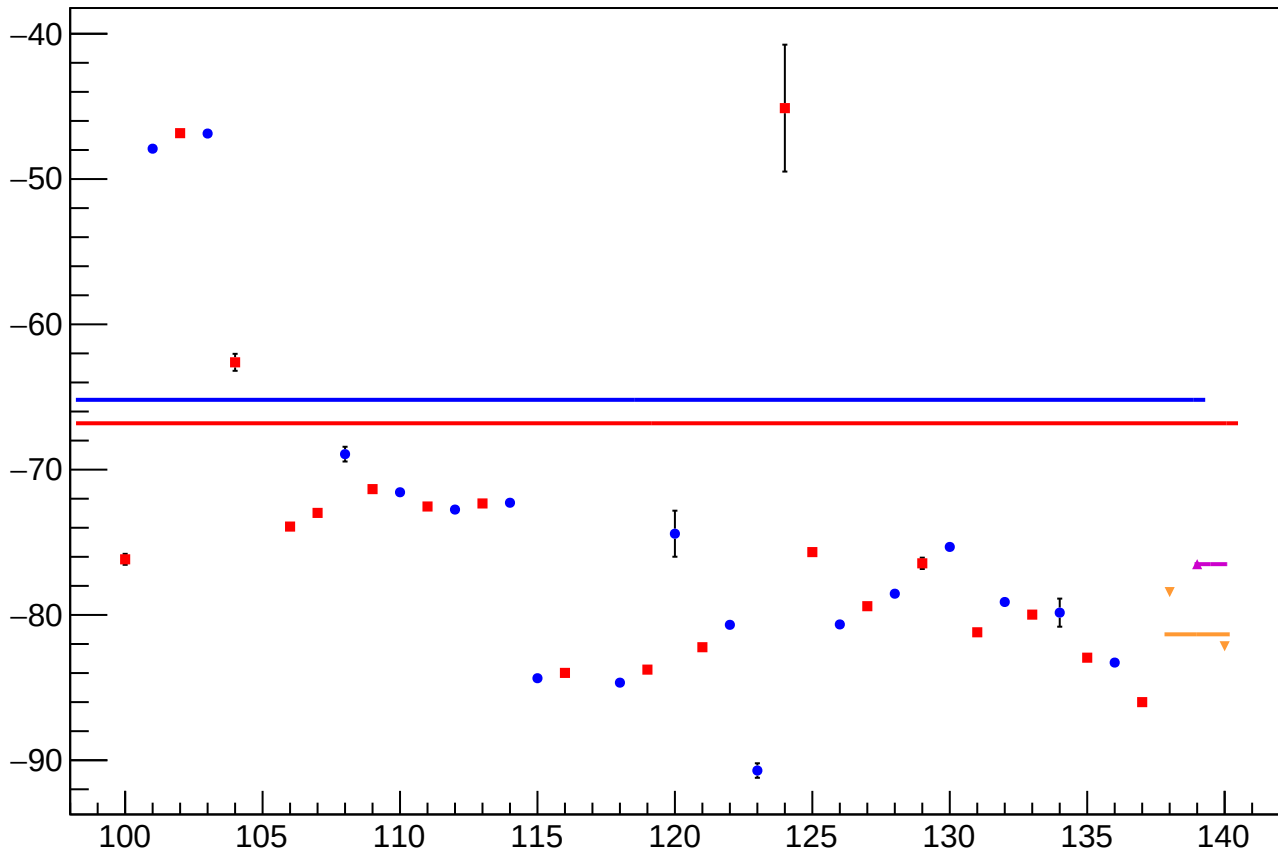
Right:  $39.550 \pm 0.000$   $\chi^2/\text{NDF}: 4780640080062069$

In:  $38.669 \pm 0.000$   $\chi^2/\text{NDF}: 60613.6/17$

Out:  $41.163 \pm 0.000$   $\chi^2/\text{NDF}: 38668.5/20$

All:  $39.550 \pm 0.000$   $\chi^2/\text{NDF}: 4780640080062069$

# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.195 \pm 0.019$   $\chi^2/\text{NDF}: 784258.8/16$

Left Out:  $-81.334 \pm 0.107$   $\chi^2/\text{NDF}: 208.9/1$

Right Out:  $-66.809 \pm 0.016$   $\chi^2/\text{NDF}: 809951.7/18$

Left In:  $-76.505 \pm 0.054$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-77.480 \pm 0.048$   $\chi^2/\text{NDF}: 1835.8/2$

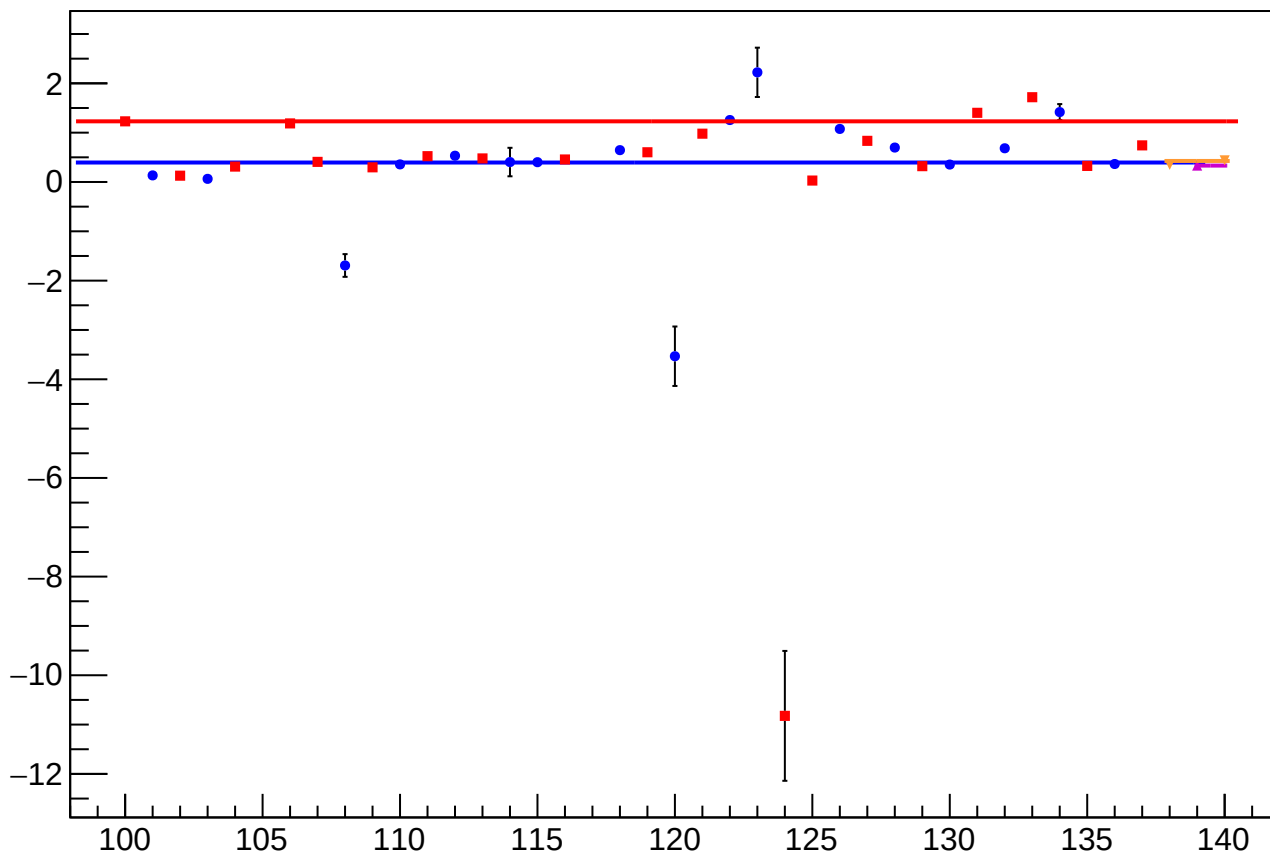
Right:  $-66.134 \pm 0.012$   $\chi^2/\text{NDF}: 1598578.1/35$

In:  $-66.406 \pm 0.018$   $\chi^2/\text{NDF}: 823709.1/17$

Out:  $-67.119 \pm 0.016$   $\chi^2/\text{NDF}: 828209.2/20$

All:  $-66.805 \pm 0.012$   $\chi^2/\text{NDF}: 1652834.6/38$

# dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 8730.5/16

Left Out: 0.426 $\pm$ 0.003  $\chi^2$ /NDF:143.0/1

Right Out: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 48941.9/18

Left In: 0.332 $\pm$ 0.002  $\chi^2$ /NDF:0.0/0

Left: 0.376 $\pm$ 0.002  $\chi^2$ /NDF: 861.7/2

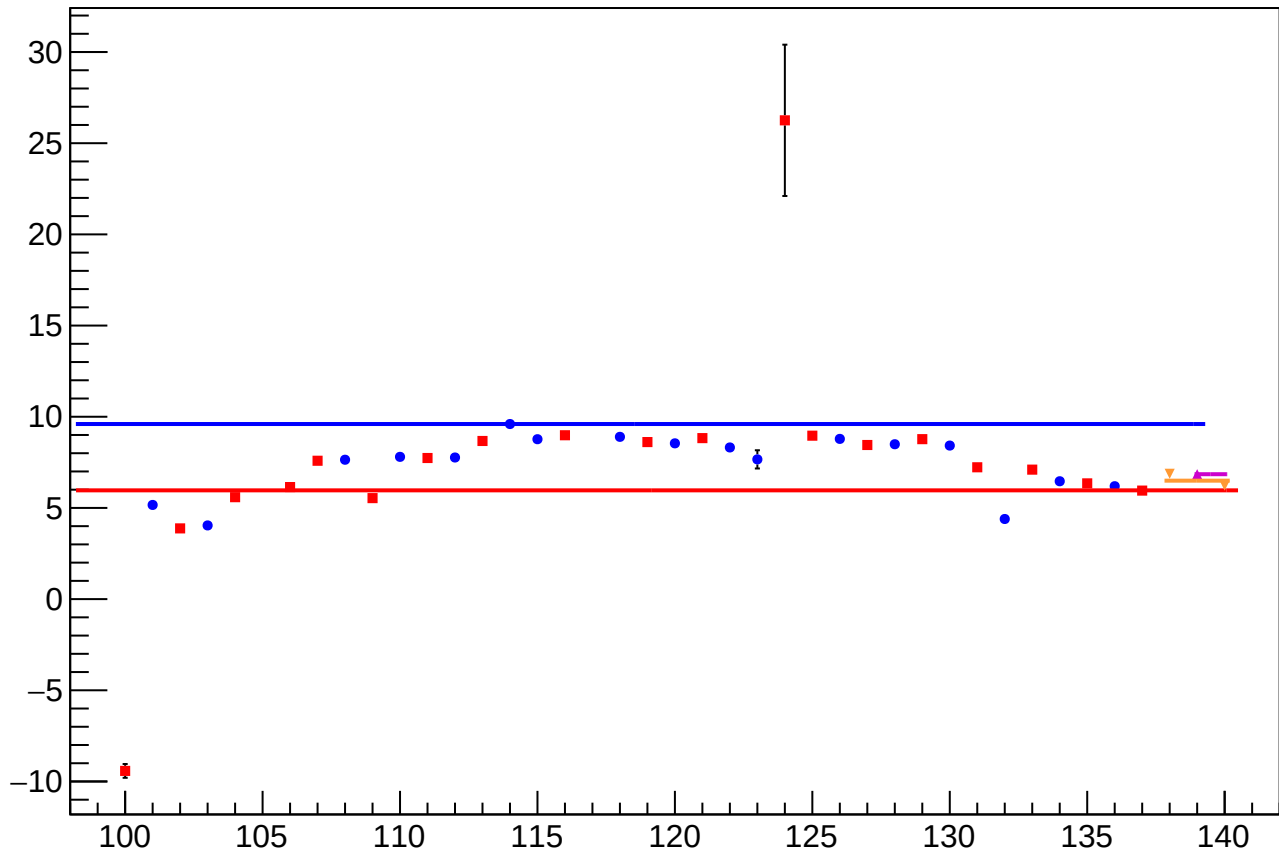
Right: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 231481.1/35

In: 0.369 $\pm$ 0.002  $\chi^2$ /NDF:9131.3/17

Out: 1.230 $\pm$ 0.000  $\chi^2$ /NDF:146634.3/20

All: 1.230 $\pm$ 0.000  $\chi^2$ /NDF: 471128.8/38

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 377404.1/16

Left Out: 6.495 $\pm$ 0.008  $\chi^2$ /NDF:1694.6/1

Right Out: 5.964 $\pm$ 0.000  $\chi^2$ /NDF: 206785.7/18

Left In: 6.849 $\pm$ 0.009  $\chi^2$ /NDF:0.0/0

Left: 6.640 $\pm$ 0.006  $\chi^2$ /NDF: 2544.1/2

Right: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 80252009.2/35

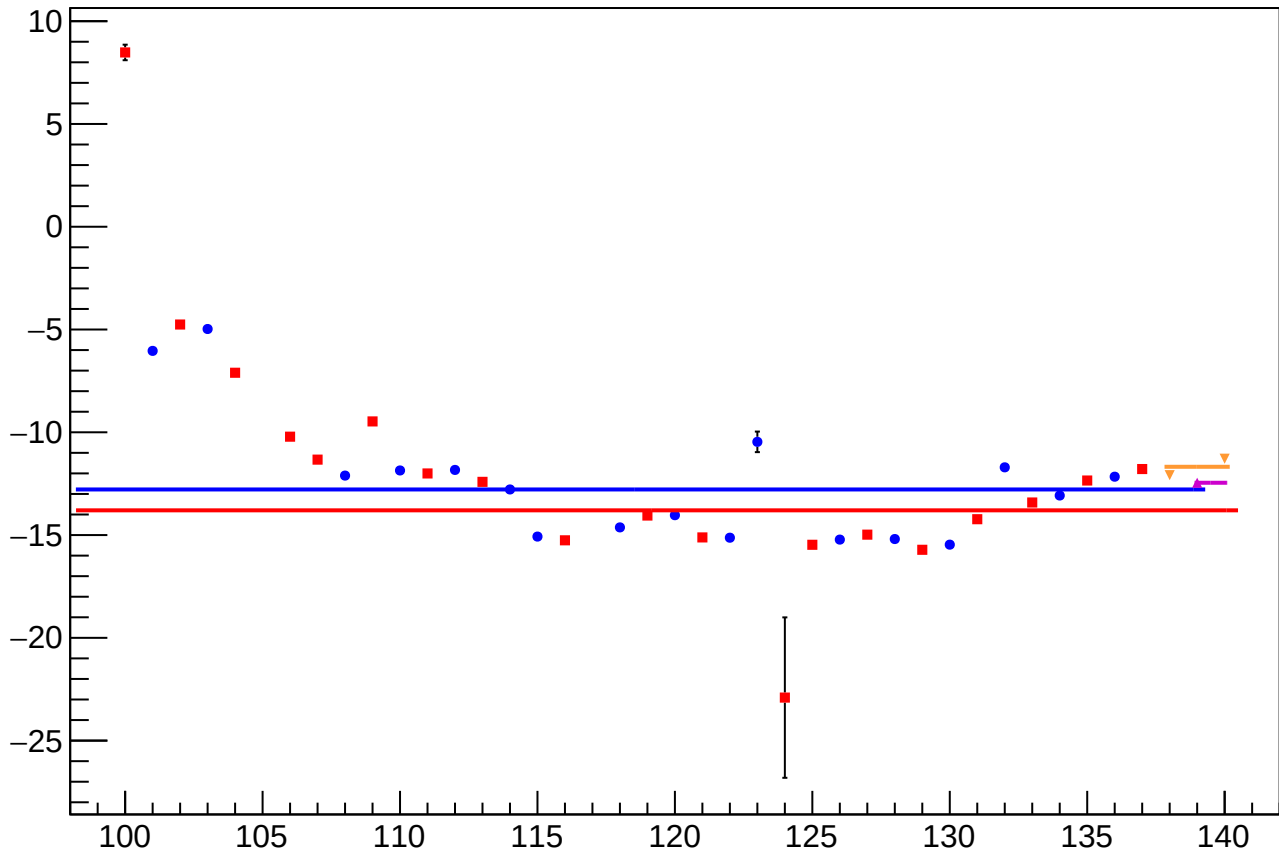
In: 9.601 $\pm$ 0.000  $\chi^2$ /NDF:464008.2/17

Out: 5.965 $\pm$ 0.000  $\chi^2$ /NDF:213142.6/20

All: 9.601 $\pm$ 0.000  $\chi^2$ /NDF: 80500247.3/38



# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In: -12.781+/-0.000  $\chi^2/\text{NDF}$ : 122716.4/16

Left Out: -11.678+/-0.009  $\chi^2/\text{NDF}$ : 1796.9/1

Right Out: -13.797+/-0.005  $\chi^2/\text{NDF}$ : 78174.8/18

Left In: -12.455+/-0.018  $\chi^2/\text{NDF}$ : 0.0/0

Left: -11.848+/-0.008  $\chi^2/\text{NDF}$ : 3276.9/2

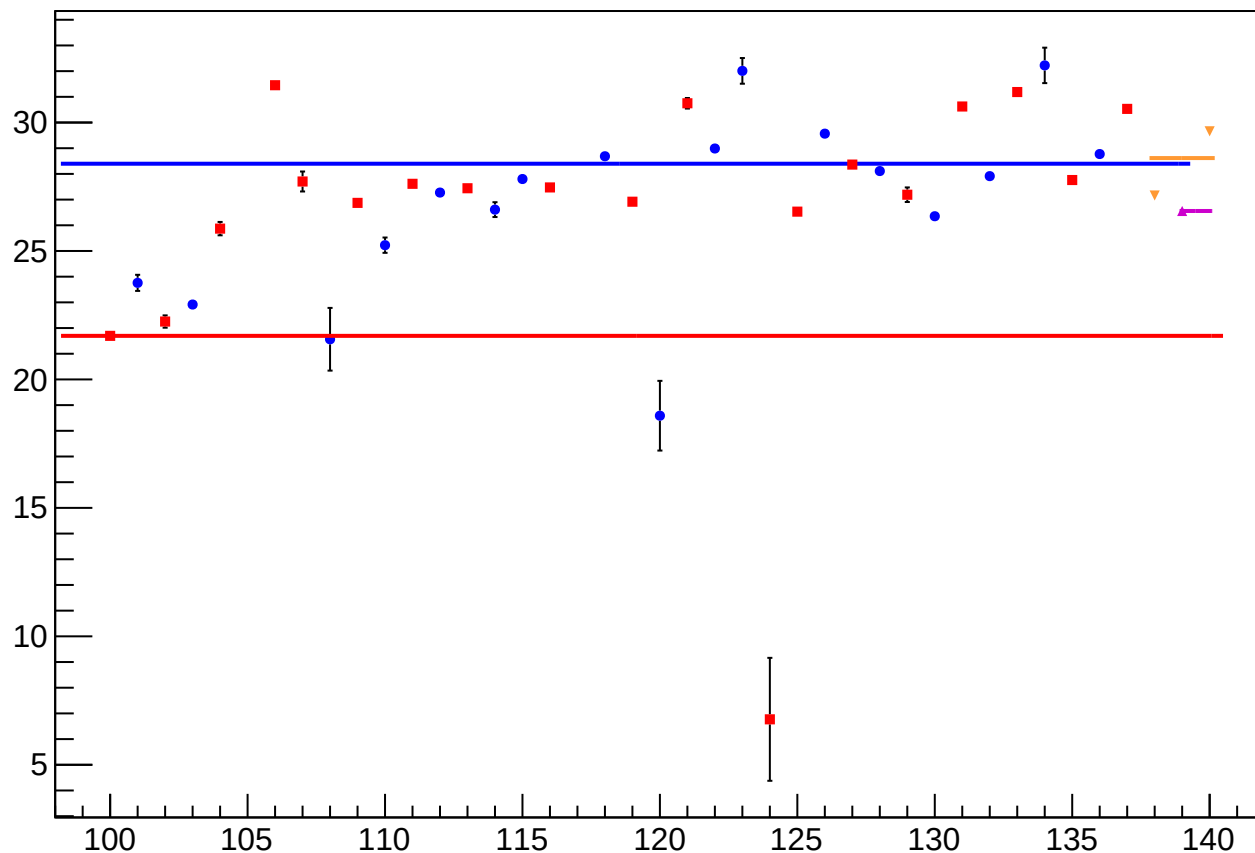
Right: -12.781+/-0.000  $\chi^2/\text{NDF}$ : 236656.7/35

In: -12.781+/-0.000  $\chi^2/\text{NDF}$ : 123049.5/17

Out: -13.279+/-0.005  $\chi^2/\text{NDF}$ : 118006.8/20

All: -12.781+/-0.000  $\chi^2/\text{NDF}$ : 252433.3/38

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In:  $28.396 \pm 0.024$   $\chi^2/\text{NDF}$ : 3440.8/16

Left Out:  $28.616 \pm 0.085$   $\chi^2/\text{NDF}$ : 210.9/1

Right Out:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}$ : 46617.3/18

Left In:  $26.557 \pm 0.054$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $27.143 \pm 0.045$   $\chi^2/\text{NDF}$ : 632.6/2

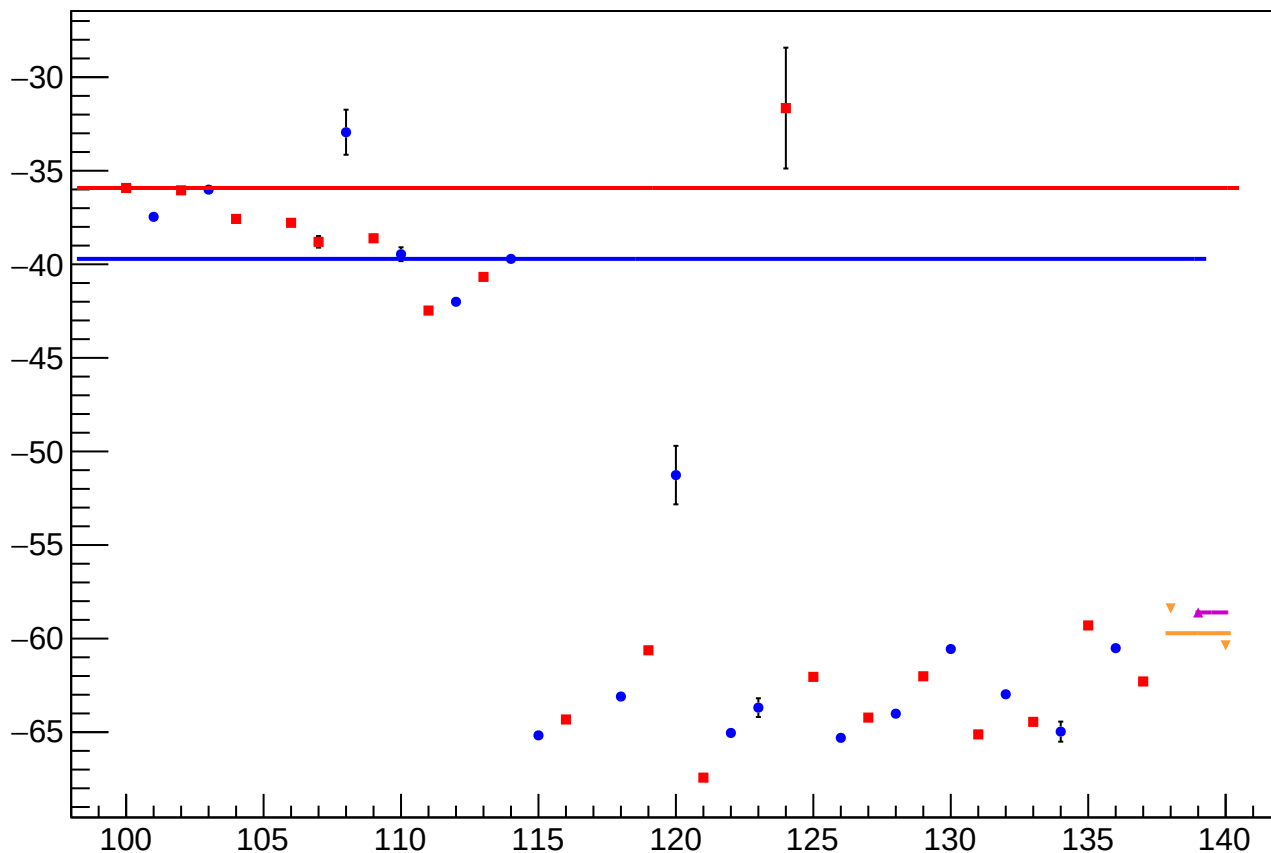
Right:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}$ : 125672.7/35

In:  $28.081 \pm 0.022$   $\chi^2/\text{NDF}$ : 4419.6/17

Out:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}$ : 53484.0/20

All:  $21.696 \pm 0.000$   $\chi^2/\text{NDF}$ : 140788.7/38

# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-39.710 \pm 0.000$   $\chi^2/\text{NDF}: 1354716.8/16$

Left Out:  $-59.710 \pm 0.073$   $\chi^2/\text{NDF}: 160.1/1$

Right Out:  $-35.921 \pm 0.000$   $\chi^2/\text{NDF}: 719212.9/18$

Left In:  $-58.603 \pm 0.088$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-59.257 \pm 0.056$   $\chi^2/\text{NDF}: 253.3/2$

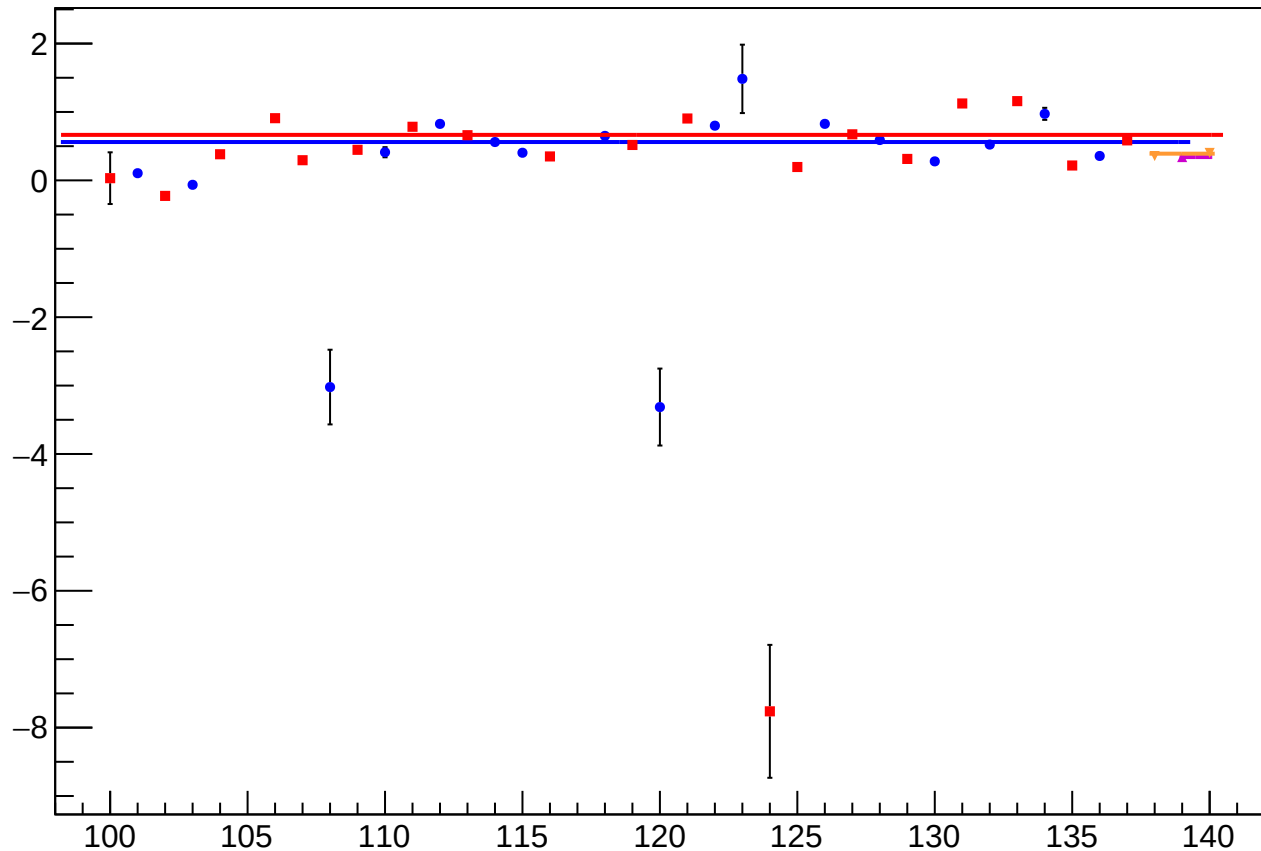
Right:  $-38.373 \pm 0.000$   $\chi^2/\text{NDF}: 110369434011630$

In:  $-39.710 \pm 0.000$   $\chi^2/\text{NDF}: 1400694.8/17$

Out:  $-35.921 \pm 0.000$   $\chi^2/\text{NDF}: 824490.4/20$

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: 0.390 $\pm$ 0.002  $\chi^2$ /NDF: 67.7/1

Right Out: 0.665 $\pm$ 0.005  $\chi^2$ /NDF: 3781.5/18

Left In: 0.341 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left: 0.369 $\pm$ 0.002  $\chi^2$ /NDF: 253.0/2

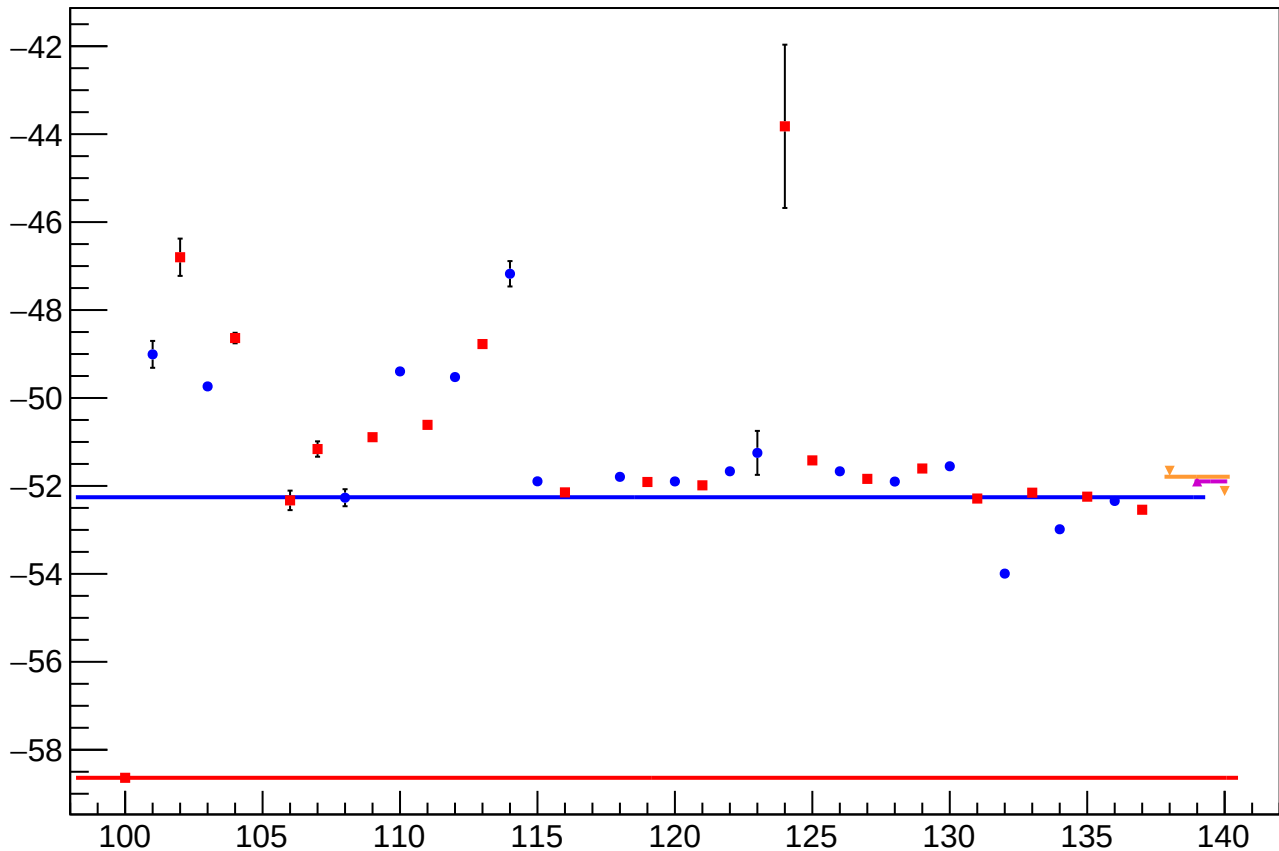
Right: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 21167.9/35

In: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 23171.3/17

Out: 0.448 $\pm$ 0.002  $\chi^2$ /NDF: 6673.2/20

All: 0.561 $\pm$ 0.000  $\chi^2$ /NDF: 32701.9/38

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.257 \pm 0.004$   $\chi^2/\text{NDF}$ : 24373.7/16

Left Out:  $-51.791 \pm 0.009$   $\chi^2/\text{NDF}$ : 579.2/1

Right Out:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 31280742.9/18

Left In:  $-51.897 \pm 0.012$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-51.828 \pm 0.007$   $\chi^2/\text{NDF}$ : 631.7/2

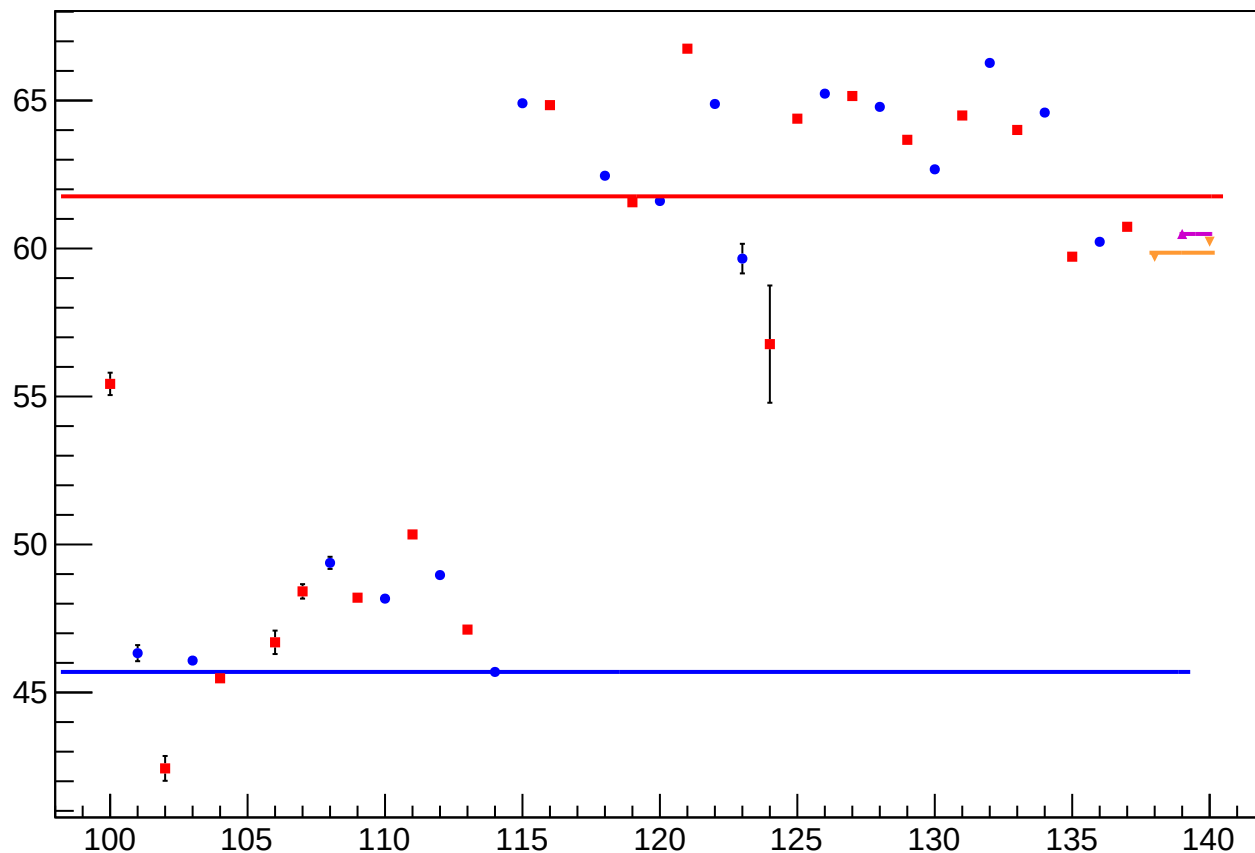
Right:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 34369113.8/35

In:  $-52.226 \pm 0.003$   $\chi^2/\text{NDF}$ : 25215.1/17

Out:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 31900551.4/20

All:  $-58.637 \pm 0.000$   $\chi^2/\text{NDF}$ : 35312202.5/38

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 3571709.5/16

Left Out: 59.858 $\pm$ 0.010  $\chi^2$ /NDF:500.9/1

Right Out: 61.762 $\pm$ 0.006  $\chi^2$ /NDF: 260089.5/18

Left In: 60.491 $\pm$ 0.061  $\chi^2$ /NDF:0.0/0

Left: 59.875 $\pm$ 0.010  $\chi^2$ /NDF: 606.7/2

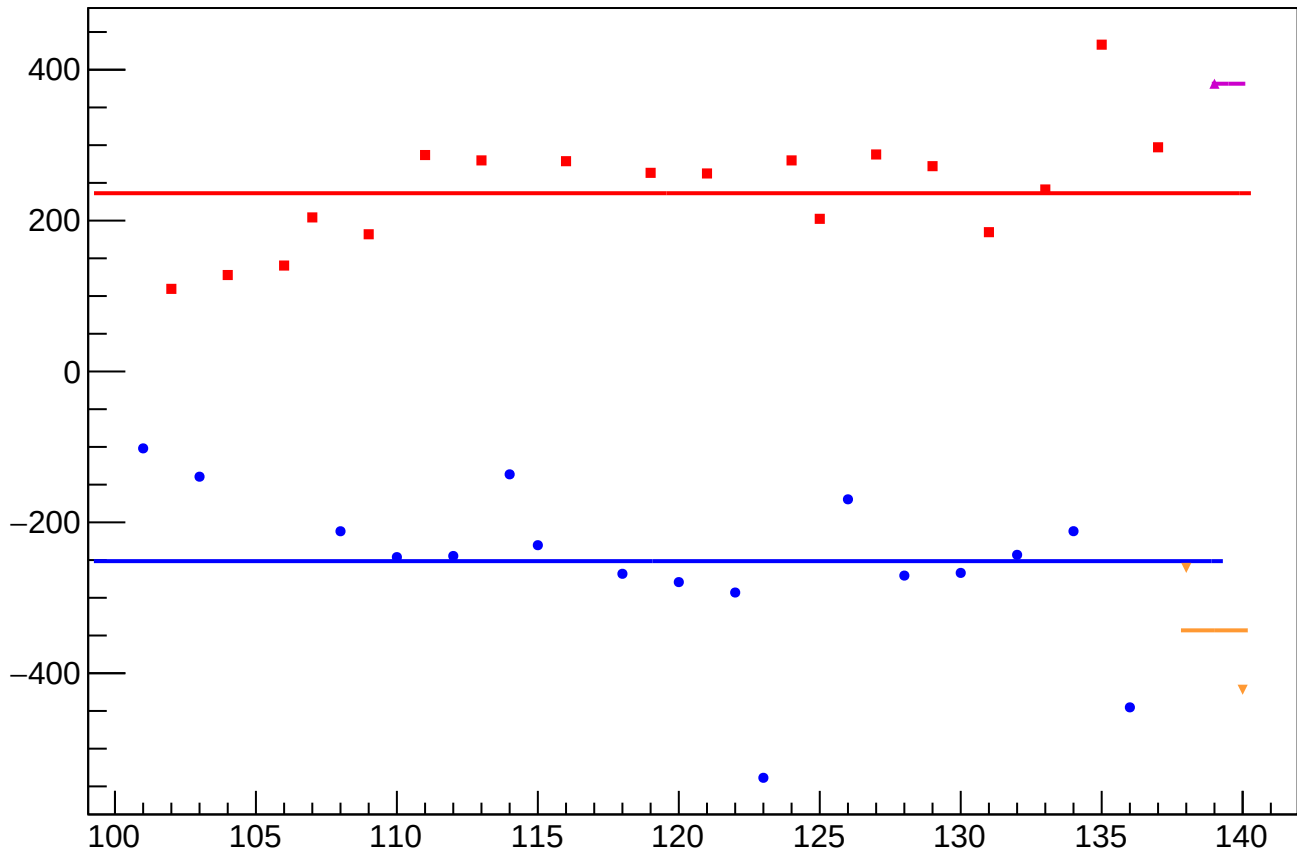
Right: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 10184097.2/35

In: 45.694 $\pm$ 0.000  $\chi^2$ /NDF:3631045.3/17

Out: 61.227 $\pm$ 0.005  $\chi^2$ /NDF:285665.3/20

All: 45.694 $\pm$ 0.000  $\chi^2$ /NDF: 12173805.3/38

# dit\_4aX\_coil1\_mean vs Slug, Sign Corrected



Right In: -251.407+/-0.000

Left Out: -343.168+/-0.000

Right Out: 236.305+/-0.000

Left In: 381.458+/-0.000

$\chi^2/\text{NDF}$ : 6377716677142803615785313646231420928.0/16

$\chi^2/\text{NDF}$ : 1042524898298776641182356120073666560.0/1

$\chi^2/\text{NDF}$ : 4583669398649017152985031455186878464.0/17

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

Left: -99.621+/-0.000  $\chi^2/\text{NDF}$ : 2927929743151626

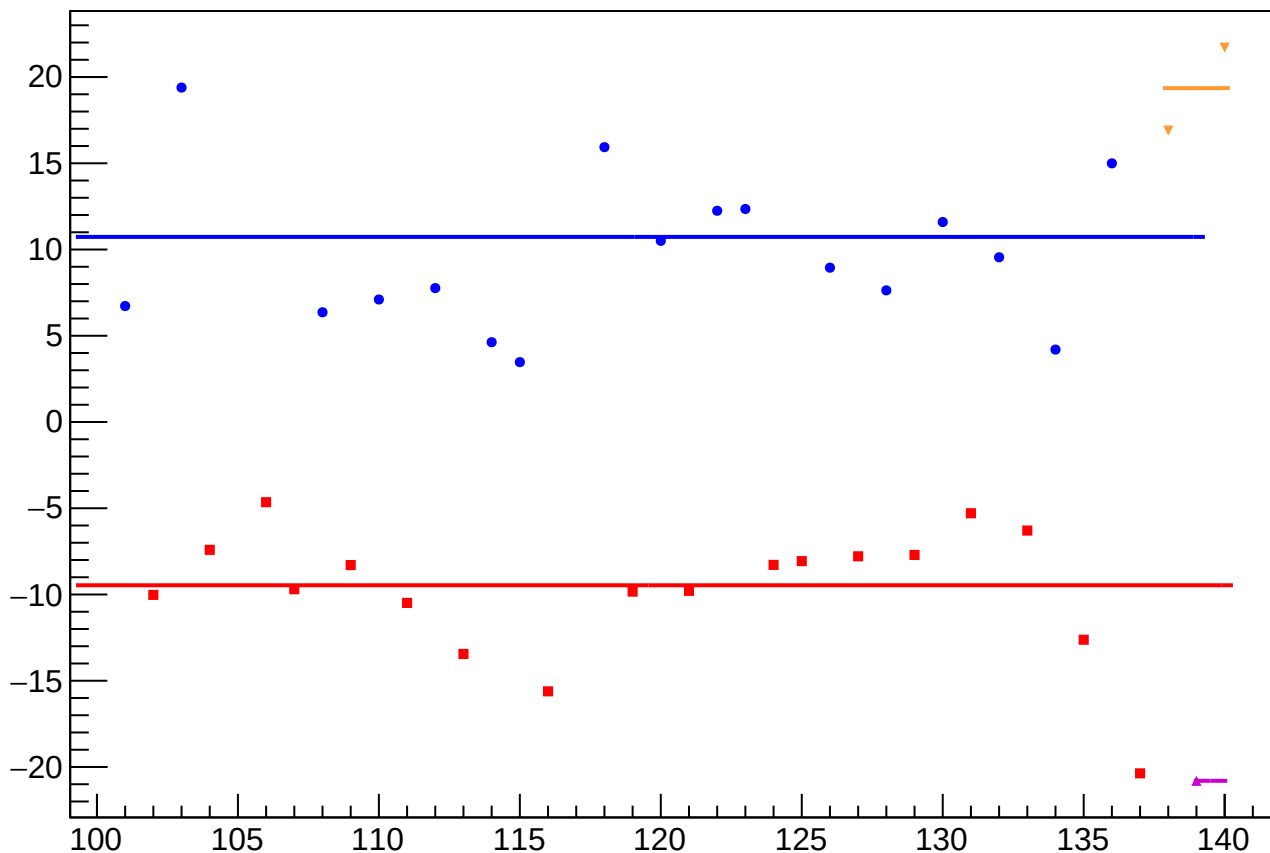
Right: -3.917+/-0.000  $\chi^2/\text{NDF}$ : 9473030910379414

In: -185.263+/-0.000  $\chi^2/\text{NDF}$ : 3542900207886805

Out: 130.345+/-0.000  $\chi^2/\text{NDF}$ : 4952819478498630

All: -17.895+/-0.000  $\chi^2/\text{NDF}$ : 125894603800

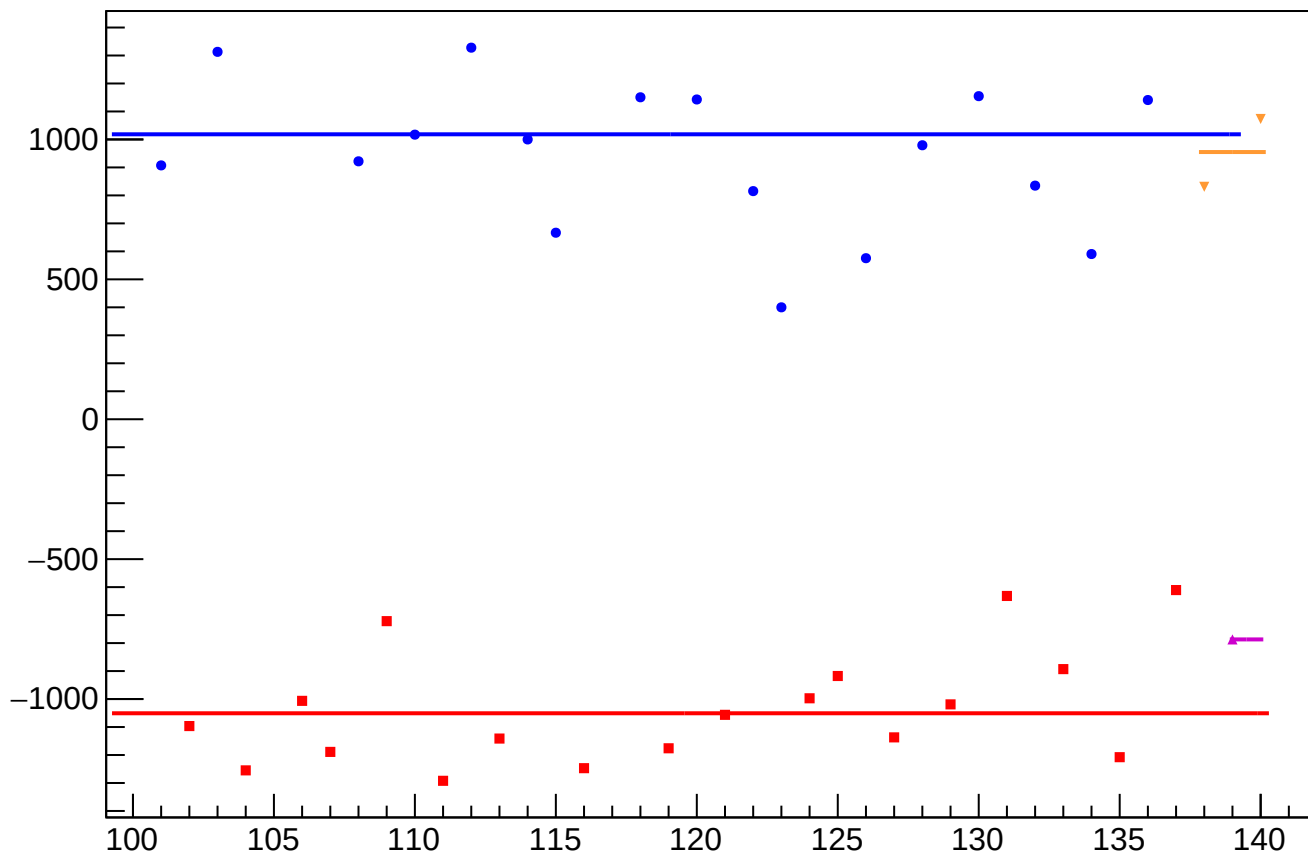
dit\_4aX\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 10.731 $\pm$ 0.000  $\chi^2$ /NDF: 12832156832660883988585211297267712.0/16  
 Left Out: 19.357 $\pm$ 0.000  $\chi^2$ /NDF: 925176933861821468356794413744128.0/1  
 Right Out: -9.465 $\pm$ 0.000  $\chi^2$ /NDF: 6964289429474711338503750841008128.0/17  
 Left In: -20.801 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.268 $\pm$ 0.000  $\chi^2$ /NDF: 25704253949920

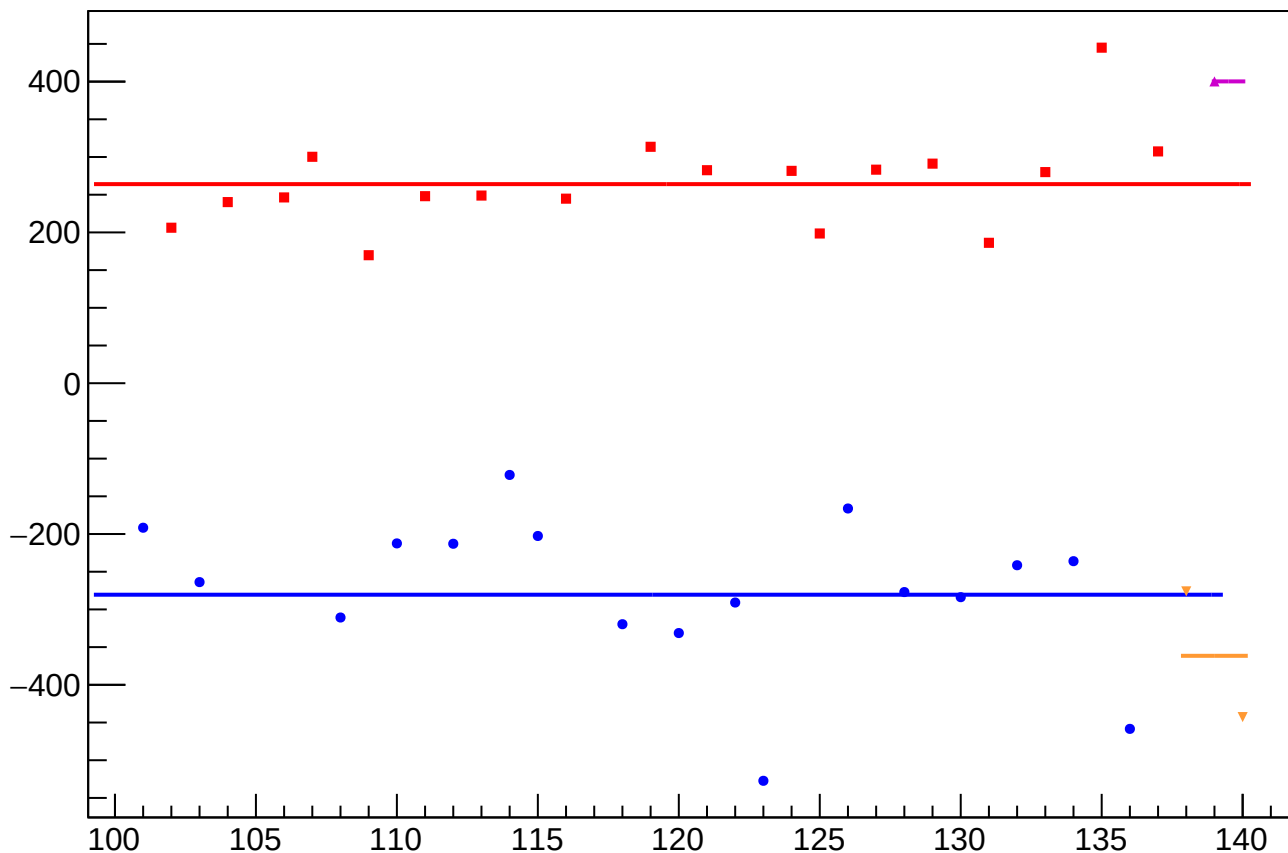


dit\_4aX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403 $\pm$ 0.000  $\chi^2$ /NDF: 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000 $\pm$ 0.000  $\chi^2$ /NDF: 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842 $\pm$ 0.000  $\chi^2$ /NDF: 26898078099677260392287731084448235520.0/17  
 Left In: -786.889 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 26.959 $\pm$ 0.000  $\chi^2$ /NDF: 1766236409525

# dit\_4eX\_coil1\_mean vs Slug, Sign Corrected



Right In: -280.488+/-0.000

$\chi^2/\text{NDF}$ : 5126630238526976320868749941319663616.0/16

Left Out: -361.520+/-0.000

$\chi^2/\text{NDF}$ : 1111195370868730375864507540149633024.0/1

Right Out: 264.038+/-0.000

$\chi^2/\text{NDF}$ : 2950904189133891581840816046652522496.0/17

Left In: 400.270+/-0.000

$\chi^2/\text{NDF}$ : 261725.1/0

Left: -105.483+/-0.000  $\chi^2/\text{NDF}$ : 323186920792979

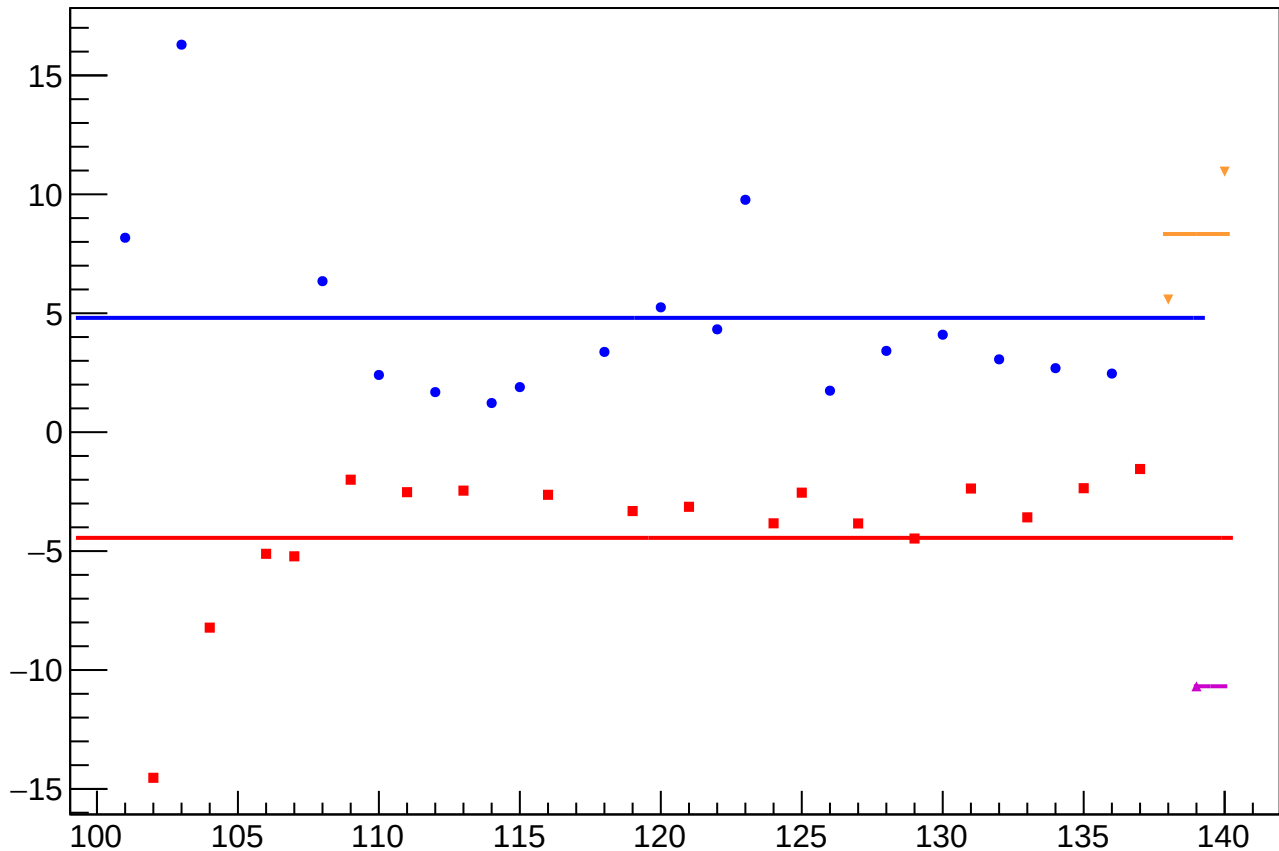
Right: -4.167+/-0.000  $\chi^2/\text{NDF}$ : 1124995033891218

In: -209.338+/-0.000  $\chi^2/\text{NDF}$ : 3874131665278631

Out: 149.650+/-0.000  $\chi^2/\text{NDF}$ : 5522473827184374

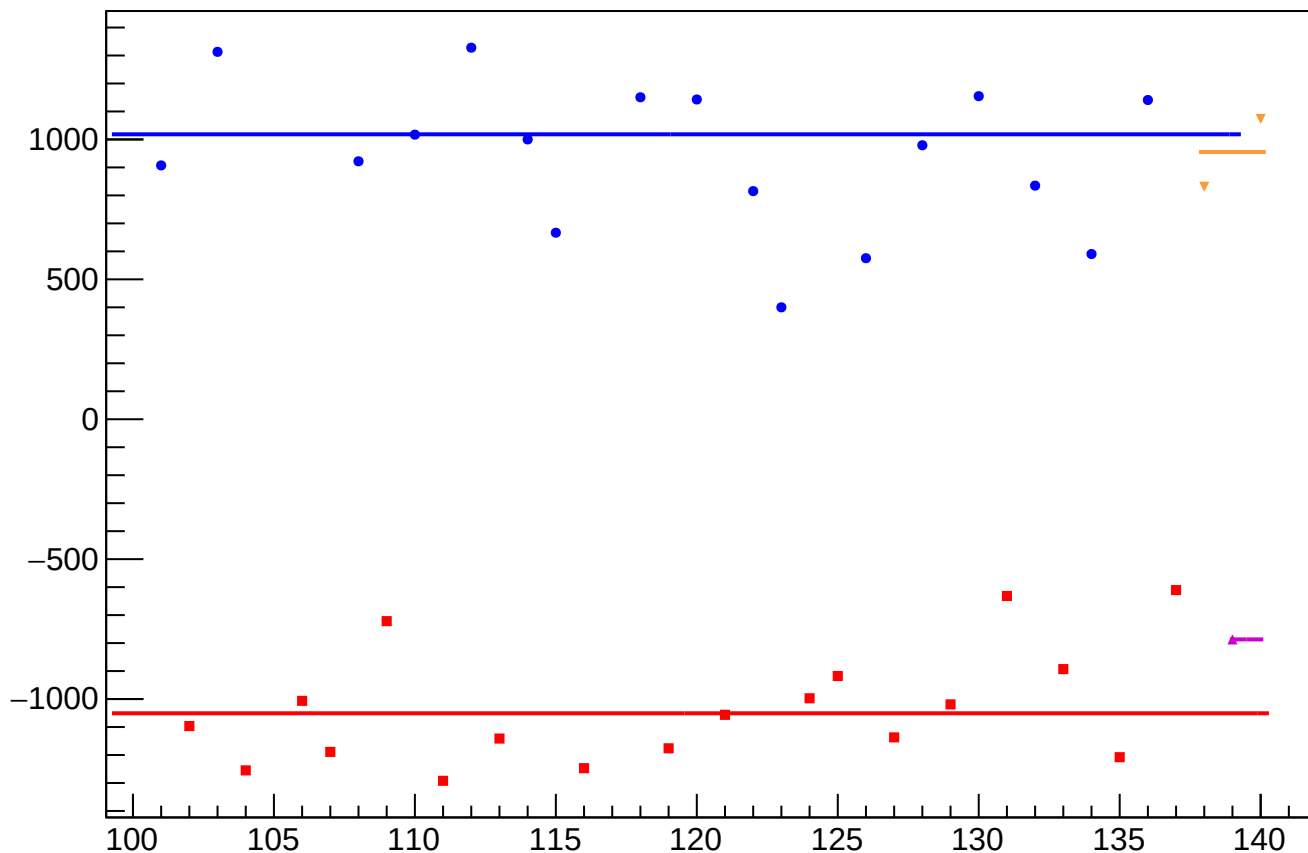
All: -18.966+/-0.000  $\chi^2/\text{NDF}$ : 146930680755

# dit\_4eX\_coil1\_err\_mean vs Slug, Sign Corrected



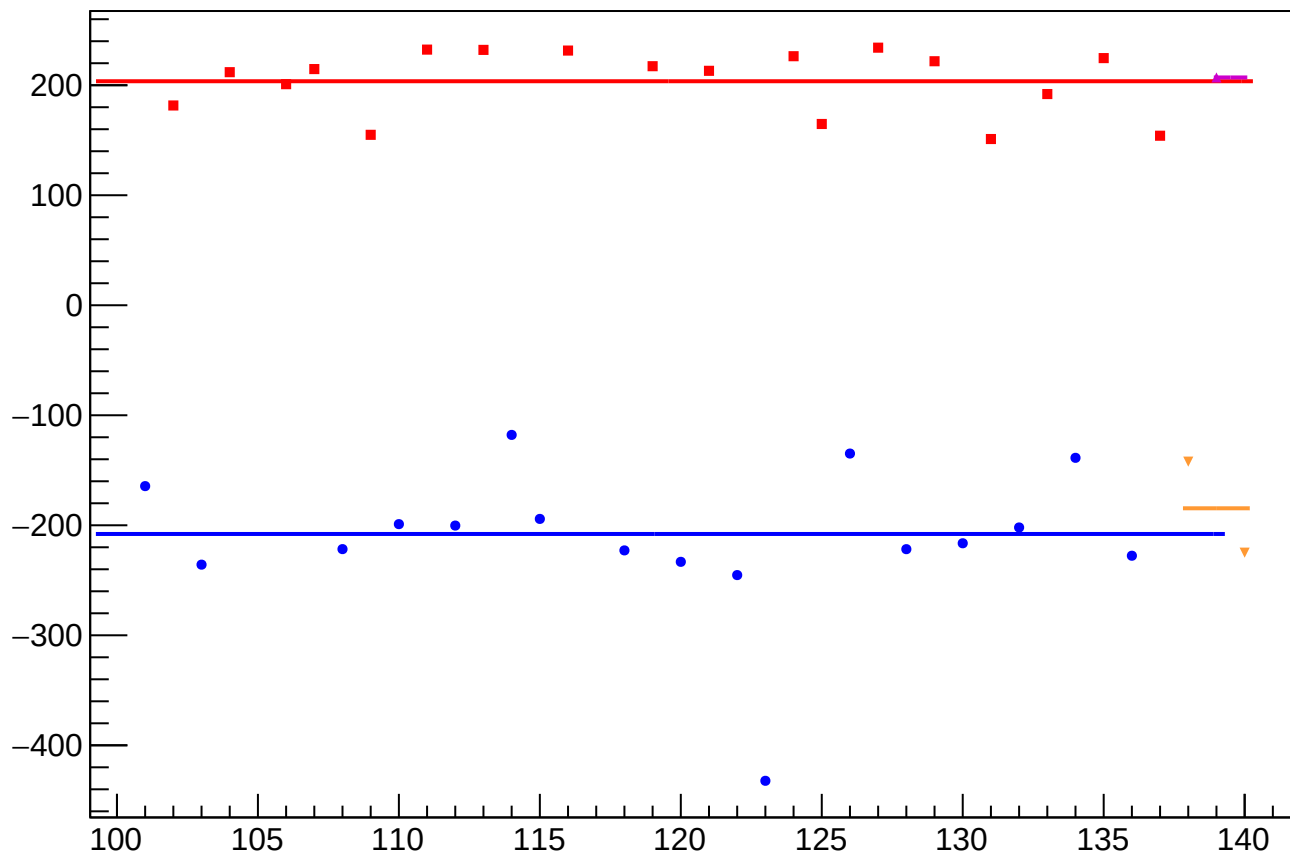
Right In: 4.806+/-0.000  $\chi^2/\text{NDF}$ : 10922956451109492621931429310234624.0/16  
 Left Out: 8.332+/-0.000  $\chi^2/\text{NDF}$ : 1156186898404841691078188507070464.0/1  
 Right Out: -4.443+/-0.000  $\chi^2/\text{NDF}$ : 8238698902114437843582467079929856.0/17  
 Left In: -10.683+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.379+/-0.000  $\chi^2/\text{NDF}$ : 70577475031093

dit\_4eX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_11X12X\_coil1\_mean vs Slug, Sign Corrected



Right In: -207.905+/-0.000  $\chi^2/\text{NDF}$ : 932229169633108948090208893374824448.0/16

Left Out: -184.563+/-0.000  $\chi^2/\text{NDF}$ : 273635269860302201259561184066011136.0/1

Right Out: 203.621+/-0.000  $\chi^2/\text{NDF}$ : 555366082114711816530063438779514880.0/17

Left In: 207.063+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: -52.938+/-0.000  $\chi^2/\text{NDF}$ : 8521327486692981

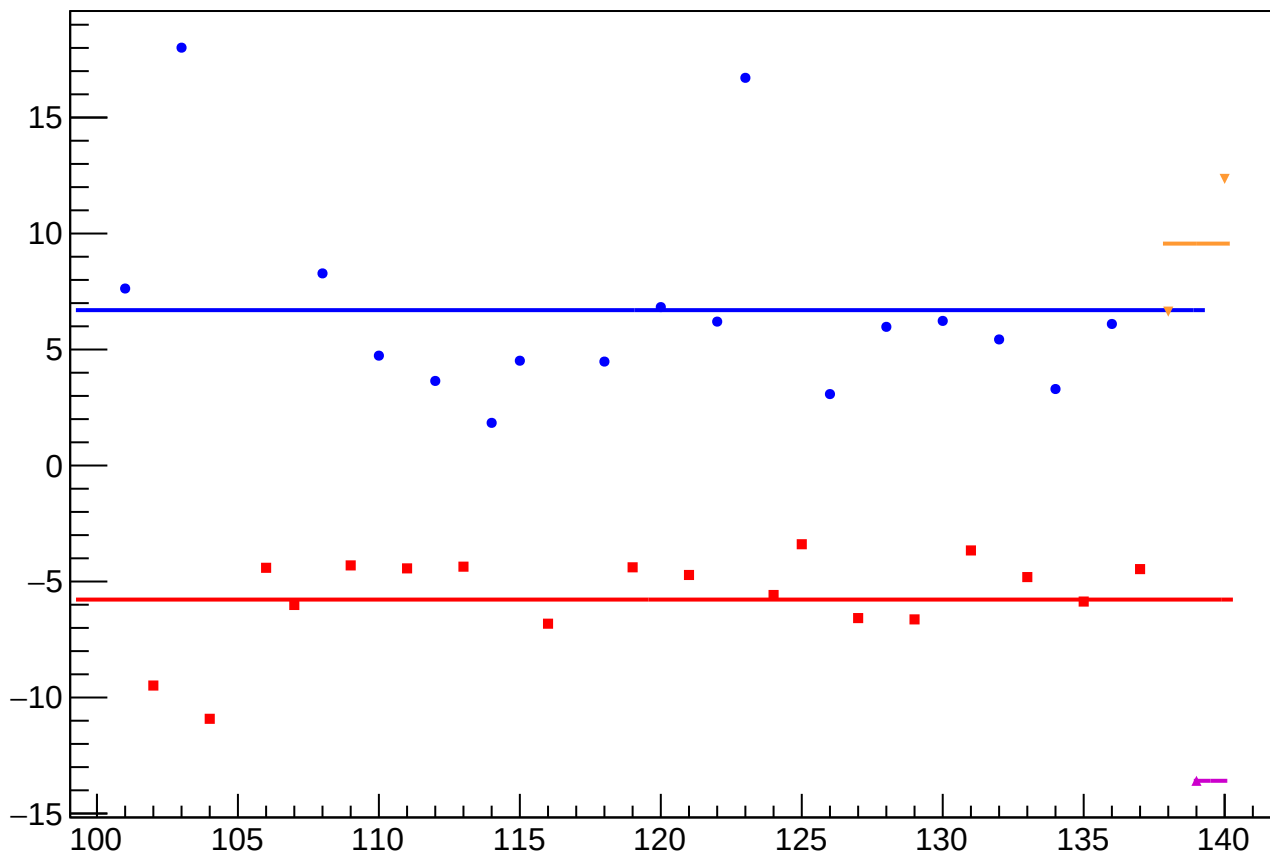
Right: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 61129354546867051

In: -164.534+/-0.000  $\chi^2/\text{NDF}$ : 1342253472762703

Out: 132.639+/-0.000  $\chi^2/\text{NDF}$ : 2053030733806134

All: -6.942+/-0.000  $\chi^2/\text{NDF}$ : 7024774419410

dit\_11X12X\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 6.697+/-0.000  $\chi^2/\text{NDF}$ : 10220265362684500644667484757032960.0/16

Left Out: 9.565+/-0.000  $\chi^2/\text{NDF}$ : 1308430512994023034341196403048448.0/1

Right Out: -5.778+/-0.000  $\chi^2/\text{NDF}$ : 3154580715579075896881670619398144.0/17

Left In: -13.590+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1.783+/-0.000  $\chi^2/\text{NDF}$ : 301416085701651918

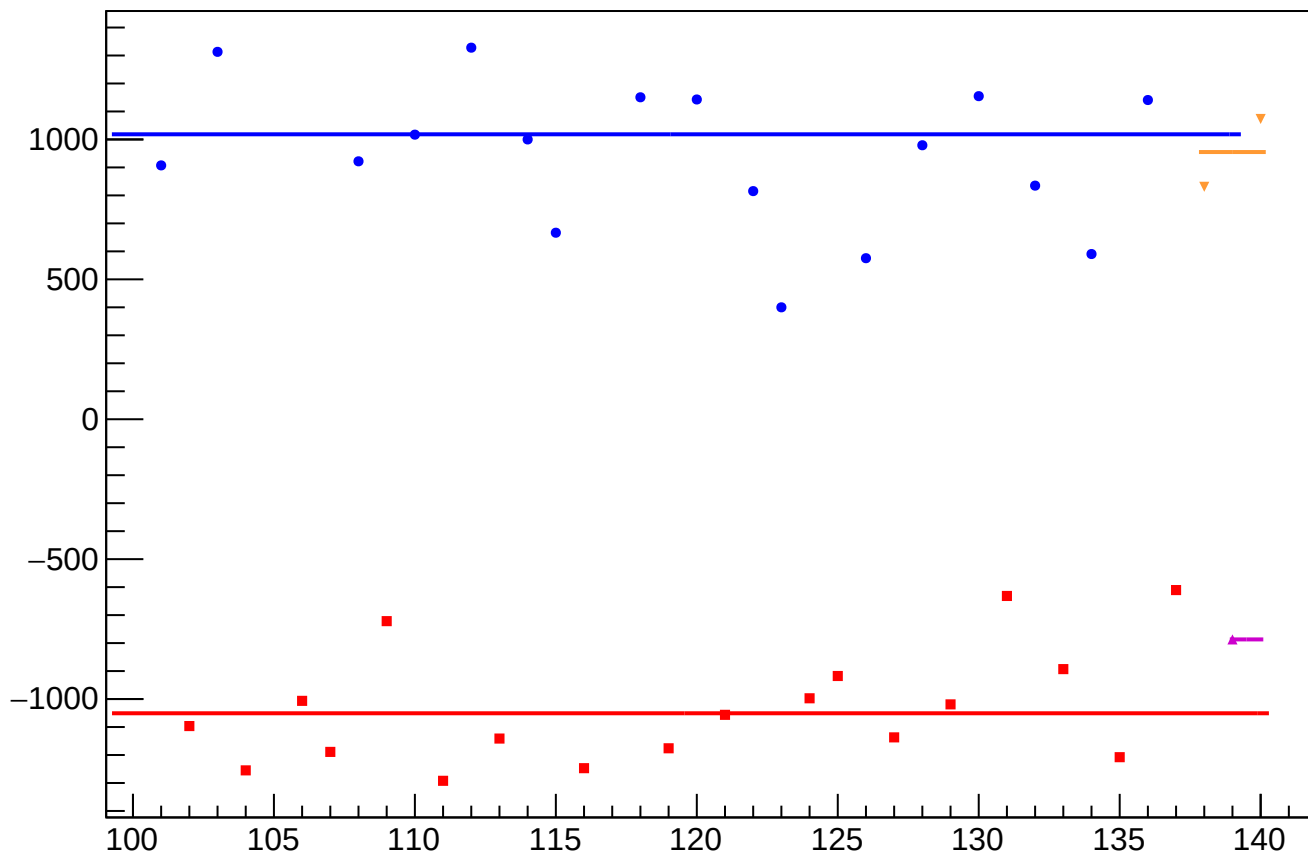
Right: 0.367+/-0.000  $\chi^2/\text{NDF}$ : 68189487523500599

In: 4.577+/-0.000  $\chi^2/\text{NDF}$ : 4007374877927906630

Out: -2.973+/-0.000  $\chi^2/\text{NDF}$ : 35244442174136284

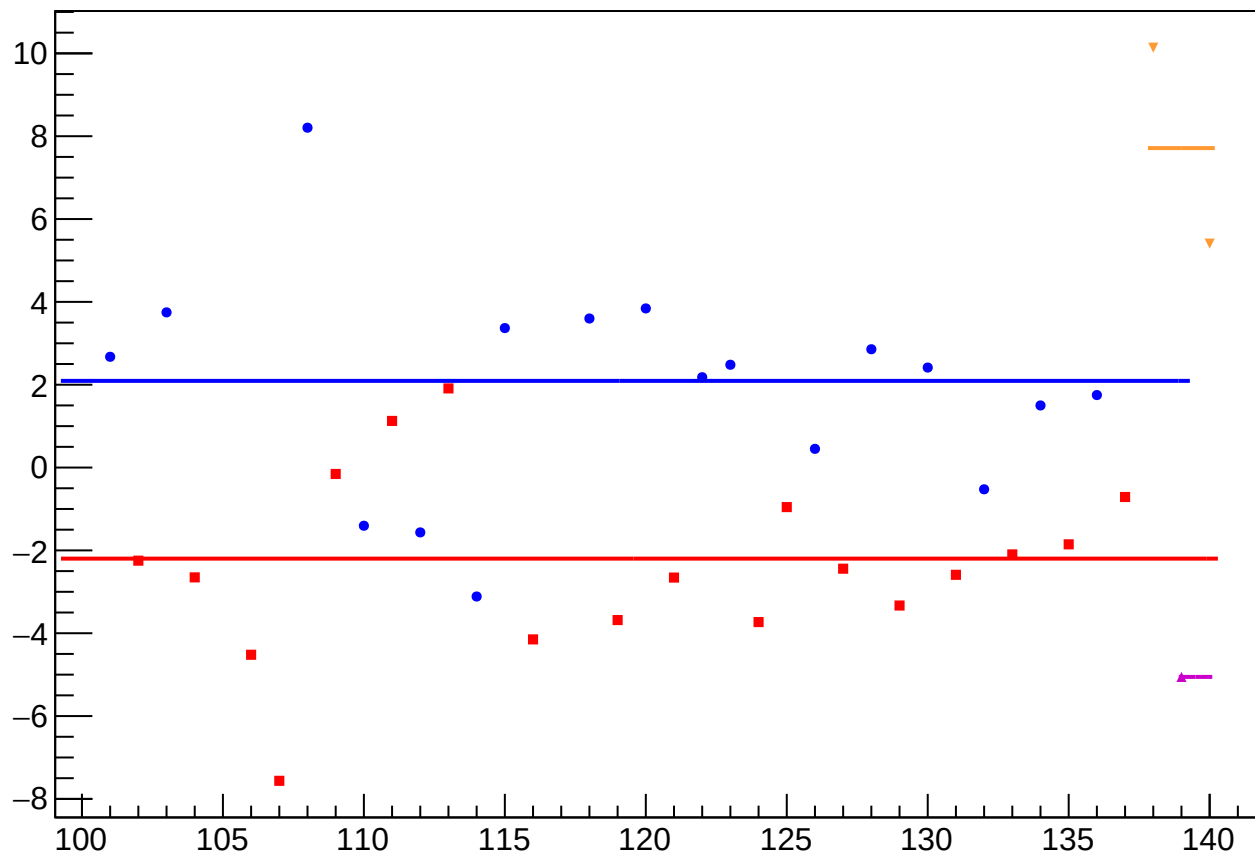
All: 0.573+/-0.000  $\chi^2/\text{NDF}$ : 98743969400103

dit\_11X12X\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

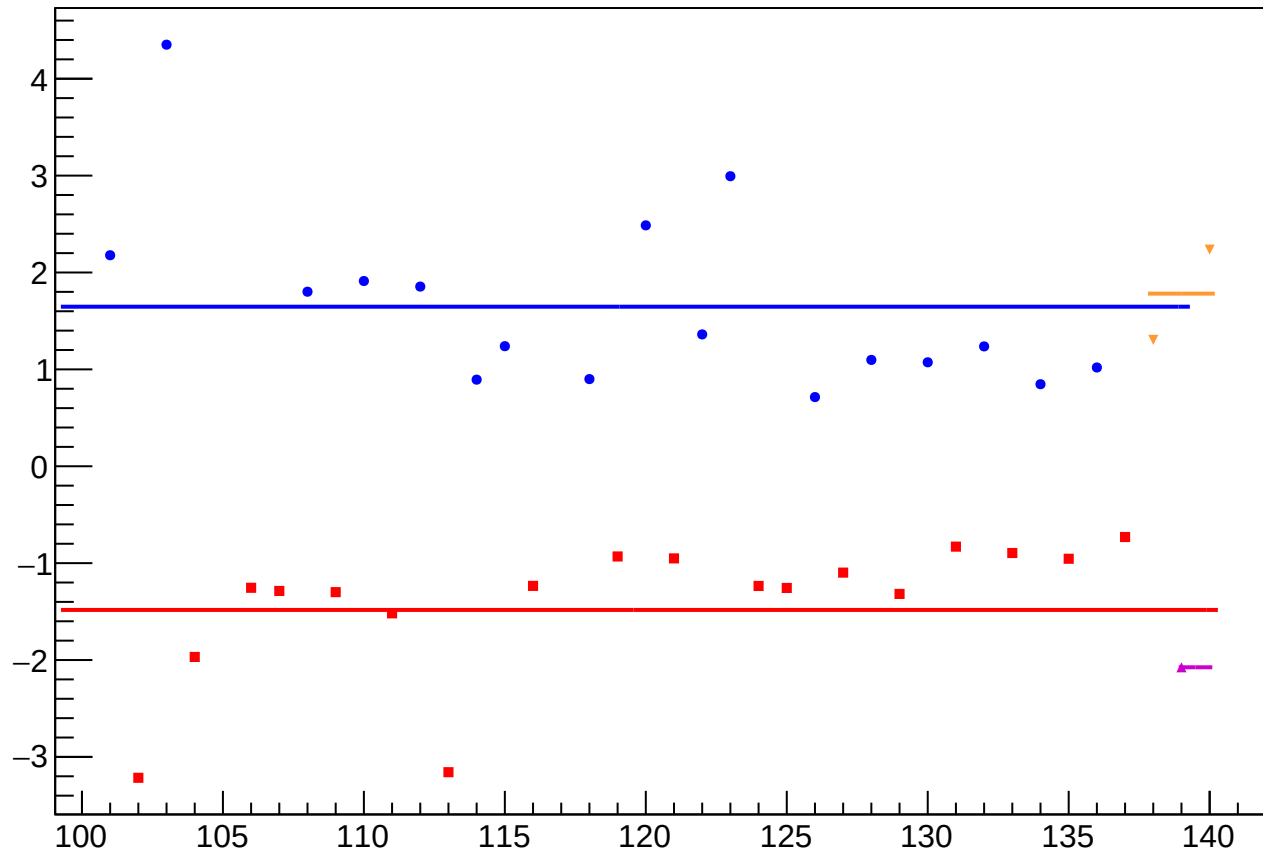
# dit\_4aY\_coil1\_mean vs Slug, Sign Corrected



Right In: 2.093+/-0.000  $\chi^2/\text{NDF}$ : 3708588340032367175525218060861440.0/16  
 Left Out: 7.713+/-0.000  $\chi^2/\text{NDF}$ : 894649202268046532439185068916736.0/1  
 Right Out: -2.199+/-0.000  $\chi^2/\text{NDF}$ : 3107113733134423203865144181391360.0/17  
 Left In: -5.055+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.427+/-0.000  $\chi^2/\text{NDF}$ : 25493390506714



dit\_4aY\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 1.647+/-0.000

$\chi^2/\text{NDF}$ : 651088572320131635658625105526784.0/16

Left Out: 1.782+/-0.000

$\chi^2/\text{NDF}$ : 34664896977705749625379655516160.0/1

Right Out: -1.483+/-0.000

$\chi^2/\text{NDF}$ : 413770473105203088009551048343552.0/17

Left In: -2.075+/-0.000

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

Left: 0.486+/-0.000  $\chi^2/\text{NDF}$ : 834566312856945516

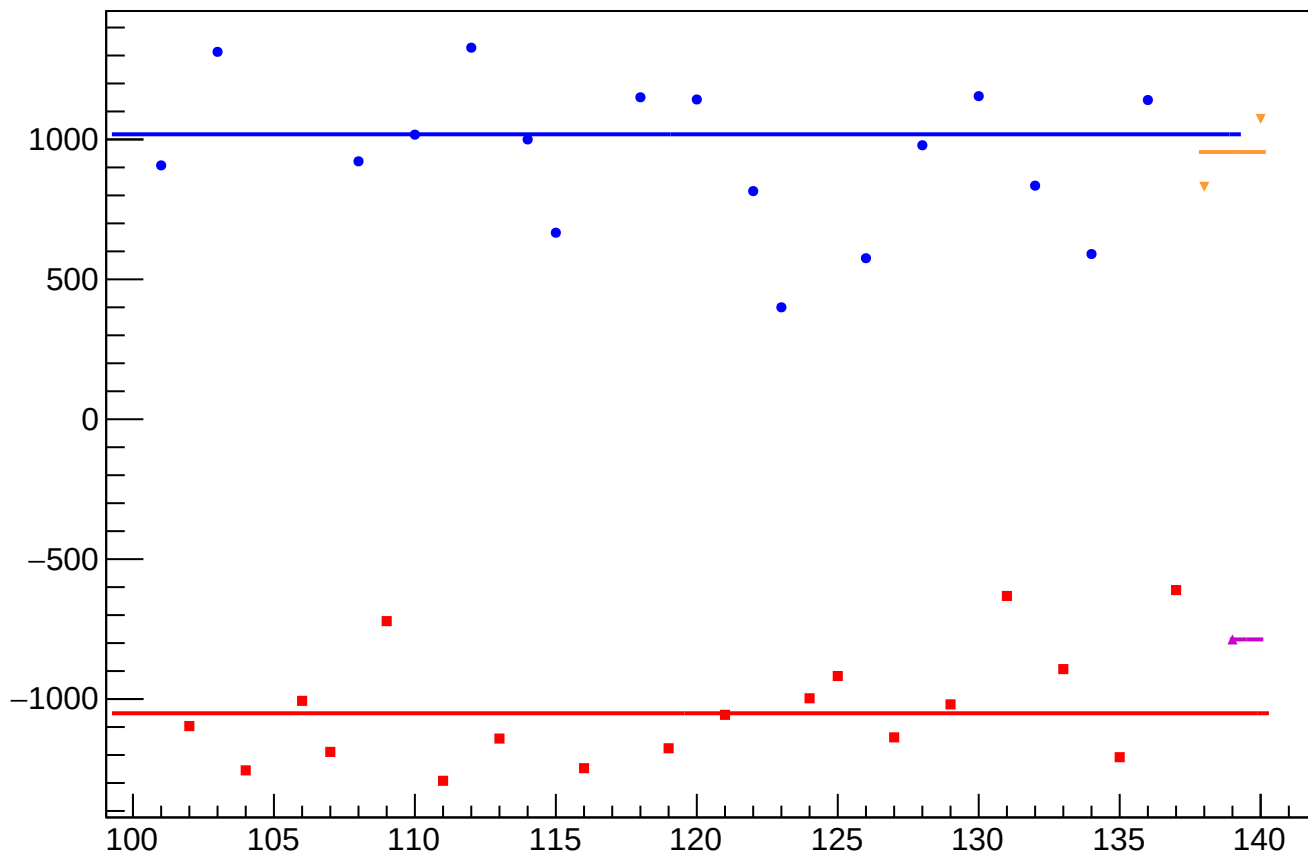
Right: 0.059+/-0.000  $\chi^2/\text{NDF}$ : 45148338302038918

In: 1.258+/-0.000  $\chi^2/\text{NDF}$ : 1655843832988883716

Out: -0.886+/-0.000  $\chi^2/\text{NDF}$ : 18420361730394816

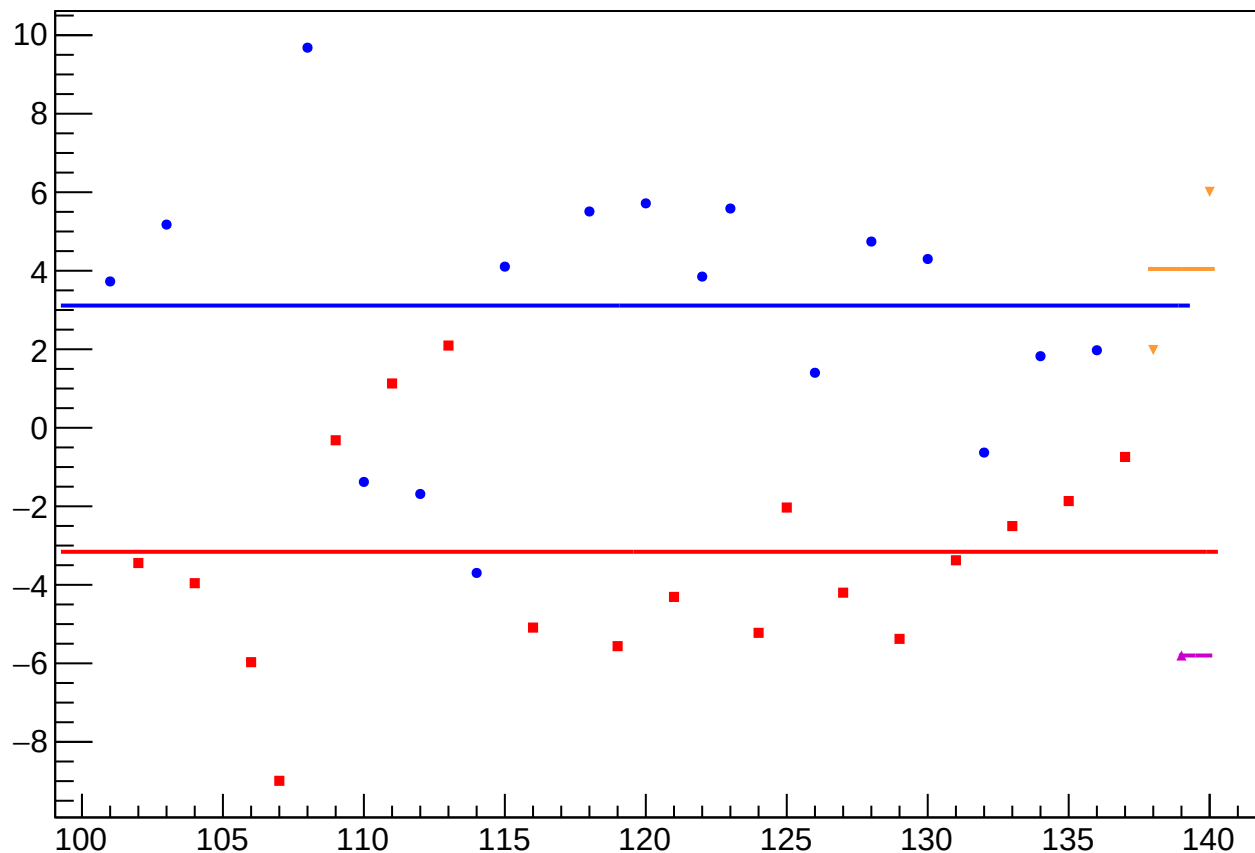
All: 0.121+/-0.000  $\chi^2/\text{NDF}$ : 53869128656900

dit\_4aY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



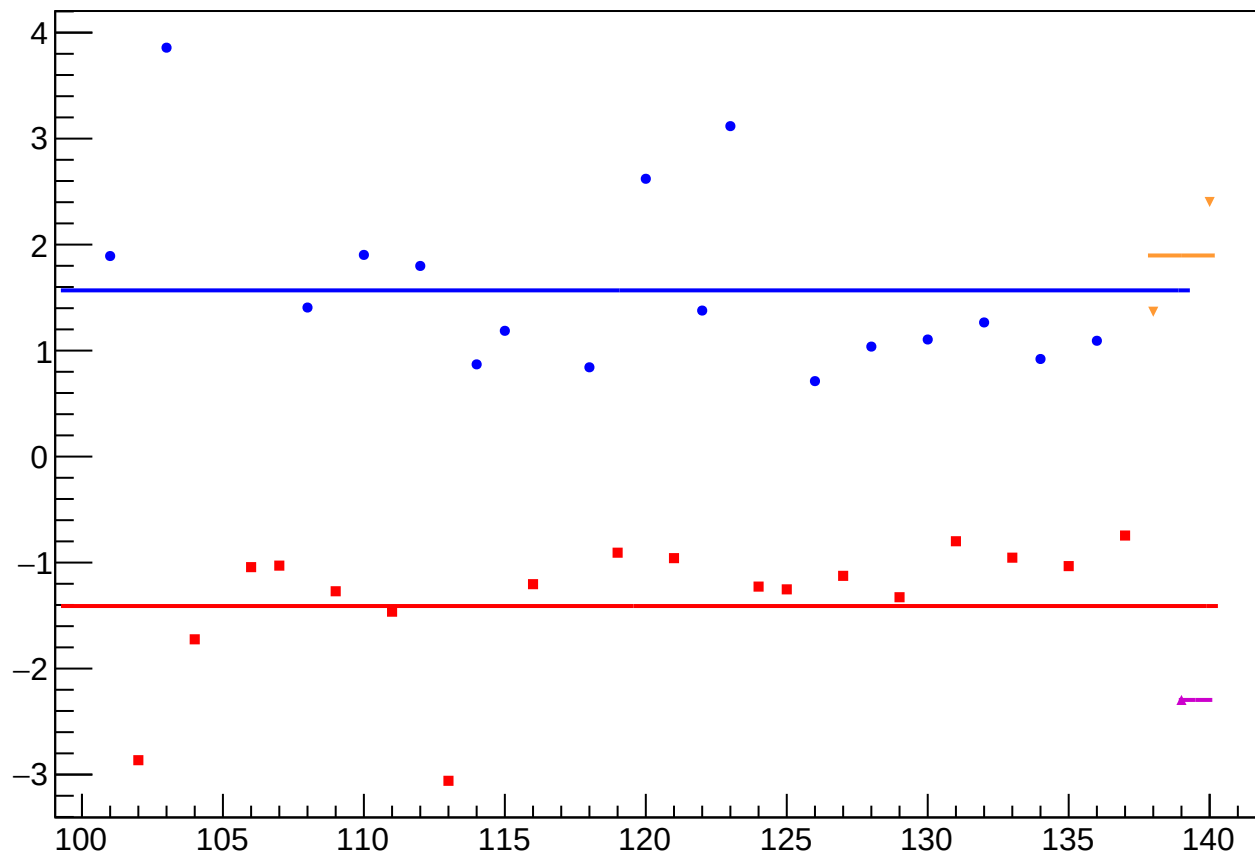
Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

dit\_4eY\_coil1\_mean vs Slug, Sign Corrected



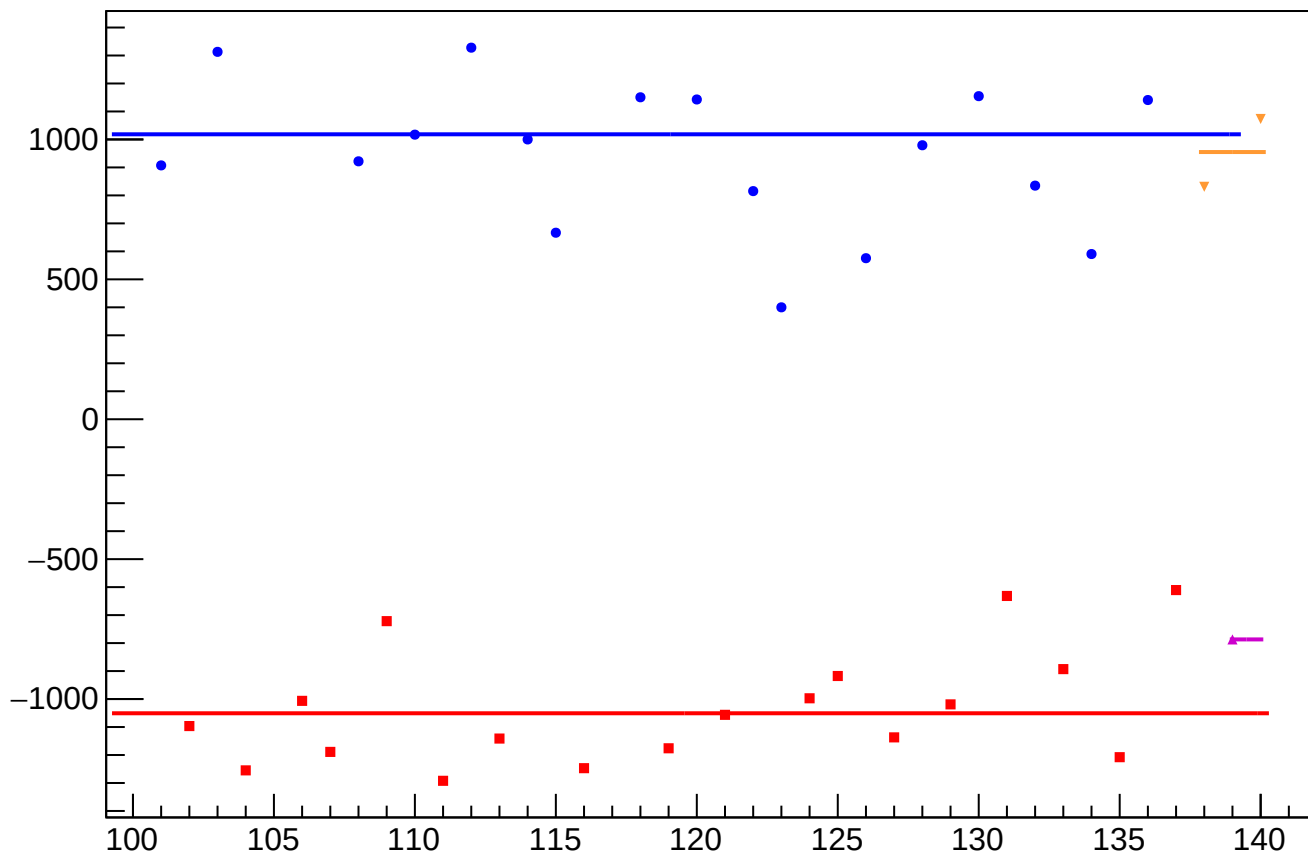
Right In: 3.113 $\pm$ 0.000  $\chi^2$ /NDF: 5969364473683453458180416326336512.0/16  
 Left Out: 4.046 $\pm$ 0.000  $\chi^2$ /NDF: 648822513341124262444315109752832.0/1  
 Right Out: -3.158 $\pm$ 0.000  $\chi^2$ /NDF: 5013186540103138237647291198472192.0/17  
 Left In: -5.800 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.048 $\pm$ 0.000  $\chi^2$ /NDF: 30831064609583

# dit\_4eY\_coil1\_err\_mean vs Slug, Sign Corrected



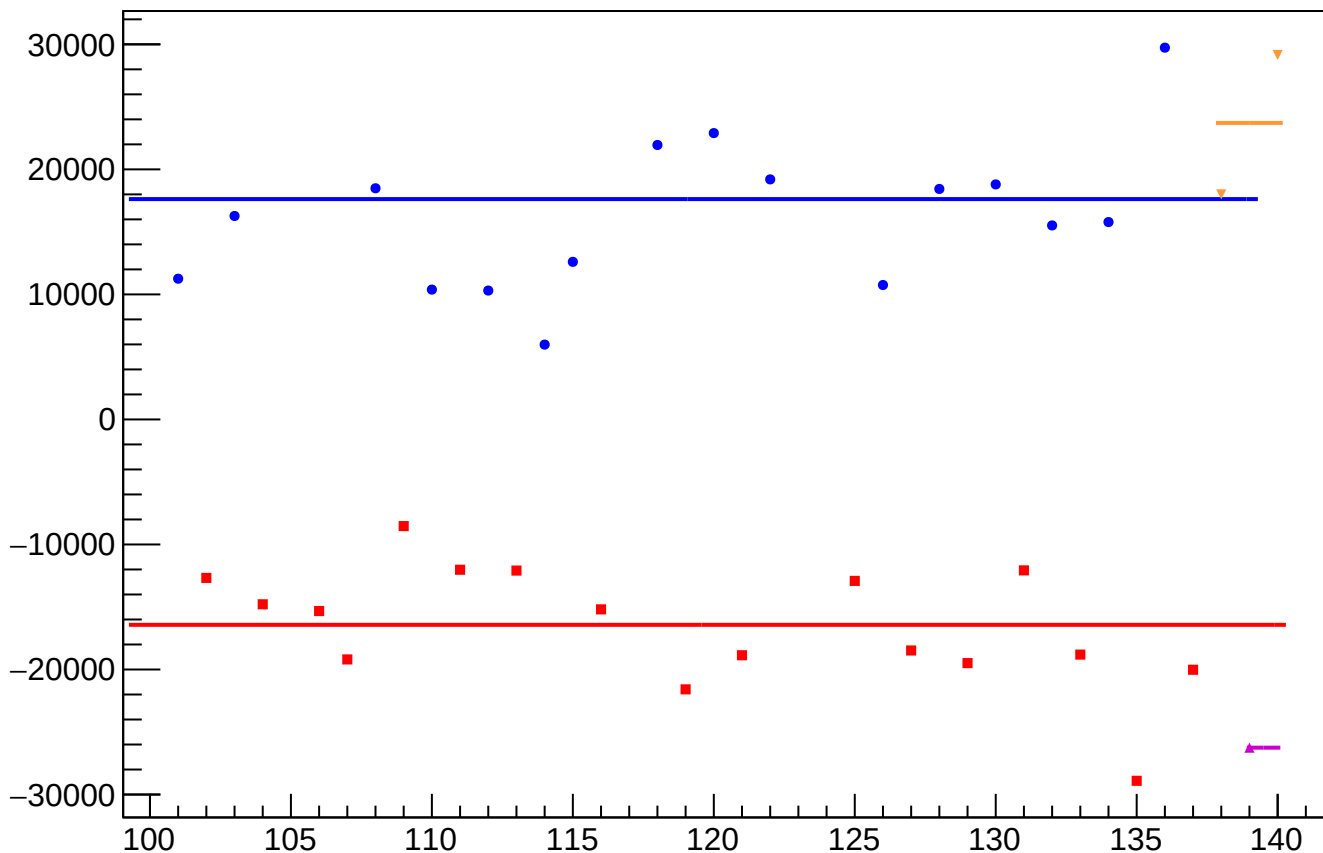
Right In: 1.568 +/- 0.000  $\chi^2/\text{NDF}$ : 496968559591870447992286312660992.0/16  
 Left Out: 1.897 +/- 0.000  $\chi^2/\text{NDF}$ : 42846133900577087257548664340480.0/1  
 Right Out: -1.410 +/- 0.000  $\chi^2/\text{NDF}$ : 328993477679498579442129623318528.0/17  
 Left In: -2.296 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.120 +/- 0.000  $\chi^2/\text{NDF}$ : 49760068803478

dit\_4eY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

dit\_usl\_coil1\_mean vs Slug, Sign Corrected



Right In: 17623.415+/-0.000

$\chi^2/\text{NDF}$ : 26214852160510248108396540611197117923328.0/15

Left Out: 23713.506+/-0.000

$\chi^2/\text{NDF}$ : 4967458665519424534321607128448633929728.0/1

Right Out: -16427.279+/-0.000

$\chi^2/\text{NDF}$ : 17497664990525804314439933995132913713152.0/16

Left In: -26251.741+/-0.000

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

Left: 6920.207+/-0.000  $\chi^2/\text{NDF}$ : 139220467466701

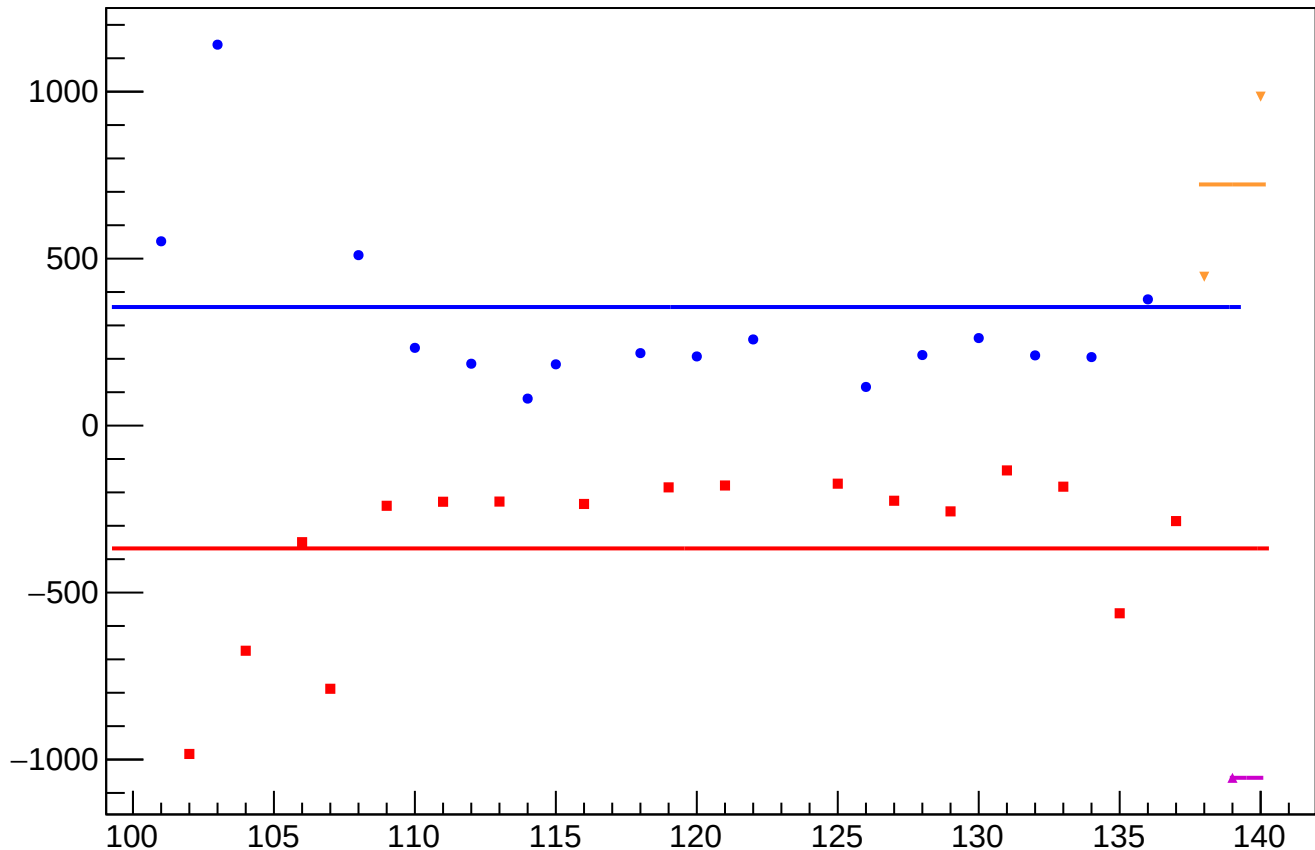
Right: 463.432+/-0.000  $\chi^2/\text{NDF}$ : 446885968438488

In: 13013.963+/-0.000  $\chi^2/\text{NDF}$ : 165760754103353

Out: -8967.900+/-0.000  $\chi^2/\text{NDF}$ : 23236228359216

All: 1416.914+/-0.000  $\chi^2/\text{NDF}$ : 59467001469

# dit\_usl\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 355.072+/-0.000

$\chi^2/\text{NDF}$ : 50262750162224494428361272812030132224.0/15

Left Out: 722.165+/-0.000

$\chi^2/\text{NDF}$ : 11623842899769483003725128340112146432.0/1

Right Out: -367.779+/-0.000

$\chi^2/\text{NDF}$ : 47461092327588428657122003339509235712.0/16

Left In: -1054.666+/-0.000

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

Left: 124.973+/-0.000  $\chi^2/\text{NDF}$ : 1814013271714487

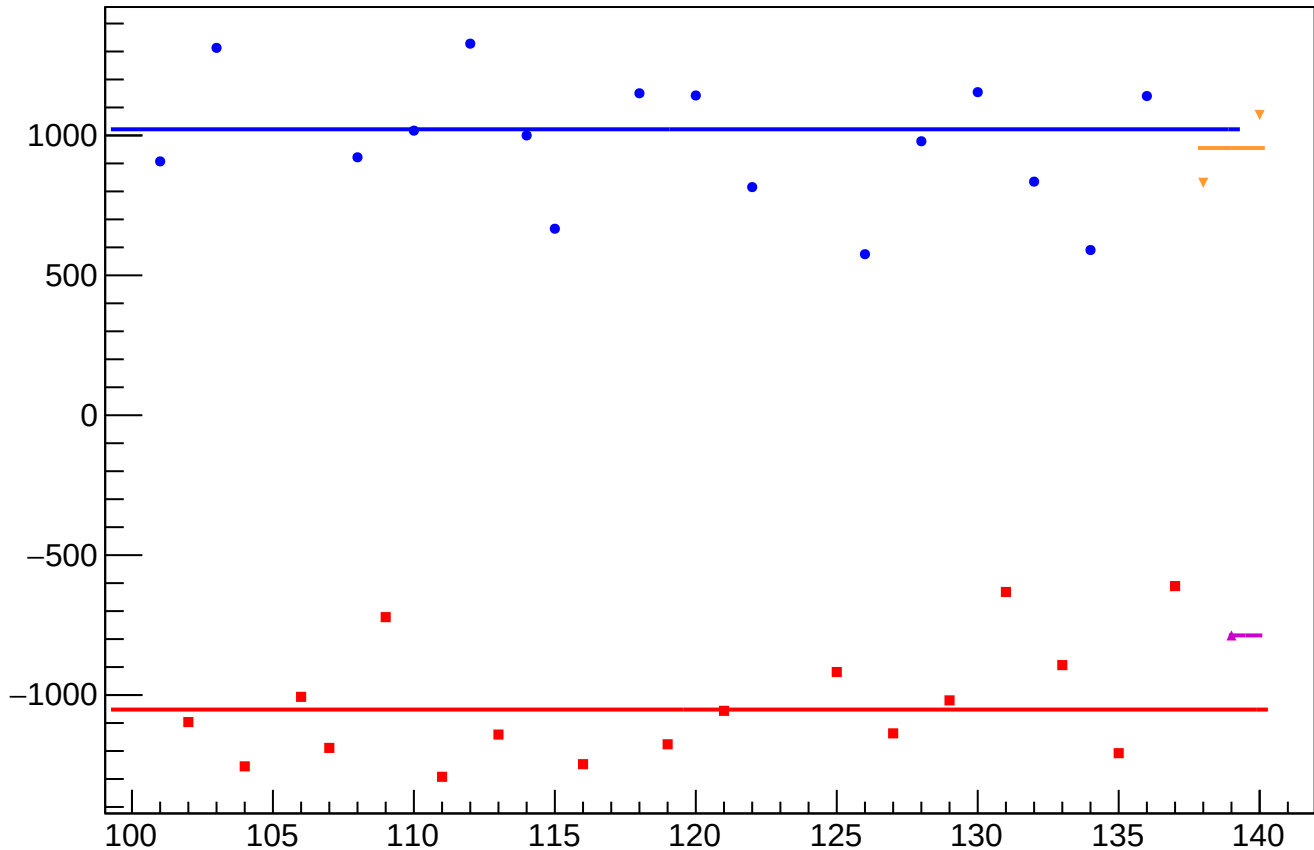
Right: -9.212+/-0.000  $\chi^2/\text{NDF}$ : 2794166429678019

In: 206.967+/-0.000  $\chi^2/\text{NDF}$ : 1943271061531178

Out: -165.234+/-0.000  $\chi^2/\text{NDF}$ : 213839387946277

All: 10.604+/-0.000  $\chi^2/\text{NDF}$ : 4645164914754

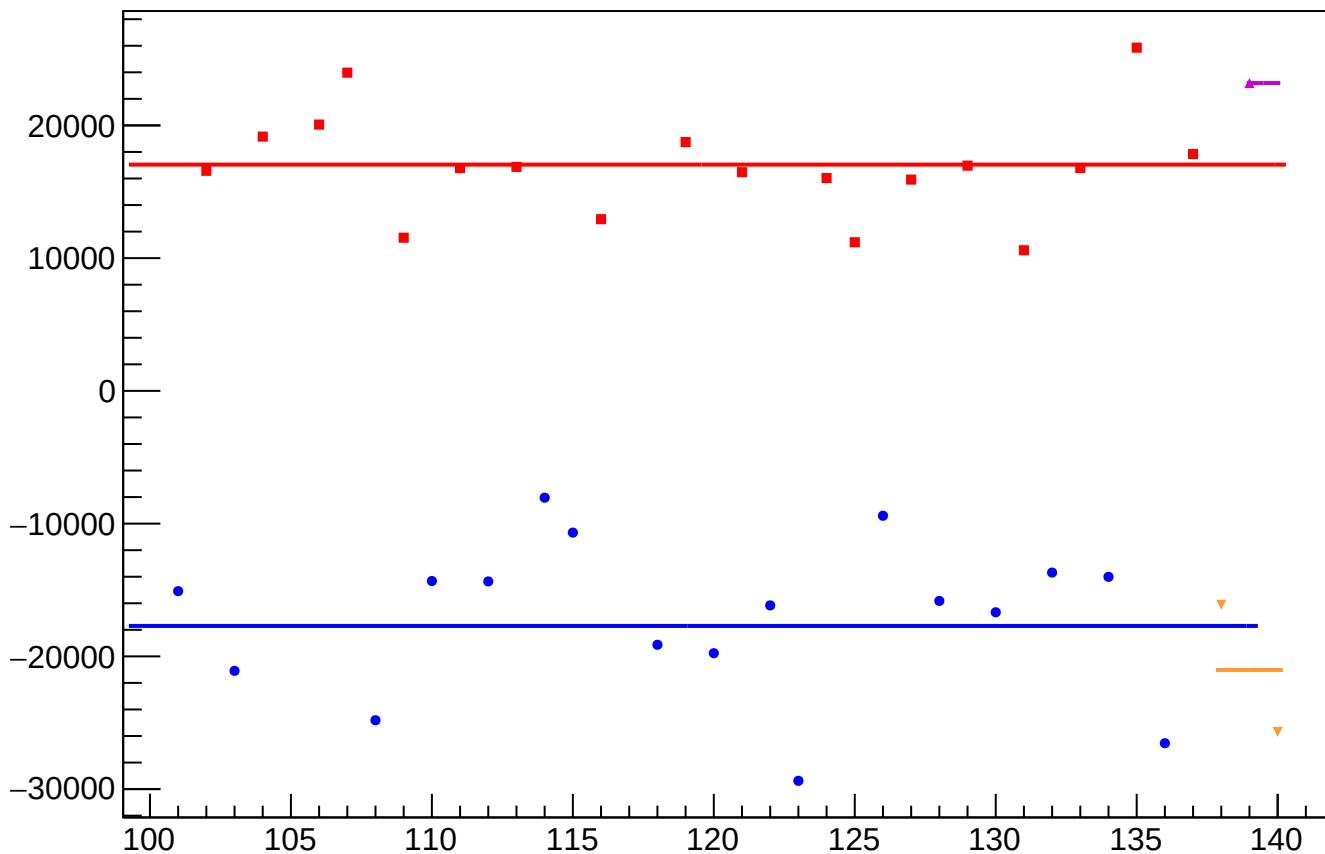
dit\_usl\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1021.988 $\pm$ 0.000  $\chi^2$ /NDF: 31240102732297466680062358937095110656.0/15  
 Left Out: 955.000 $\pm$ 0.000  $\chi^2$ /NDF: 2348870544090060553701581628463120384.0/1  
 Right Out: -1051.912 $\pm$ 0.000  $\chi^2$ /NDF: 26857120331966502825045576618889707520.0/16  
 Left In: -786.889 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 34.831 $\pm$ 0.000  $\chi^2$ /NDF: 1750891560508



# dit\_usr\_coil1\_mean vs Slug, Sign Corrected



Right In: -17706.432+/-0.000

Left Out: -21023.901+/-0.000

Right Out: 17045.413+/-0.000

Left In: 23192.279+/-0.000

$\chi^2/\text{NDF}$ : 17446583920719856354509663675734298722304.0/16

$\chi^2/\text{NDF}$ : 3665358374416913171830686301559719985152.0/1

$\chi^2/\text{NDF}$ : 10956517506901040130363493382016229965824.0/17

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

Left: -6162.861+/-0.000  $\chi^2/\text{NDF}$ : 10880110386540

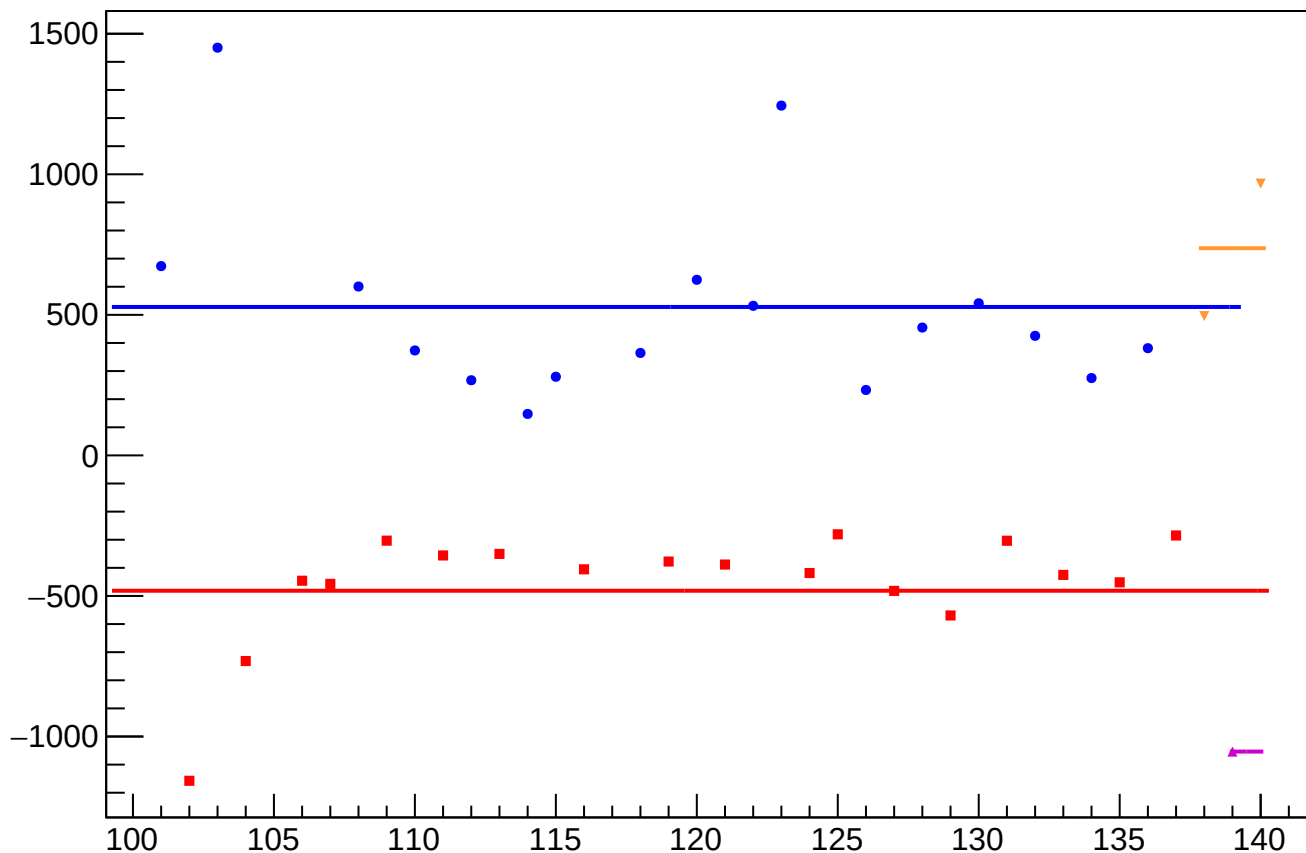
Right: -71.535+/-0.000  $\chi^2/\text{NDF}$ : 453717668983601

In: -13431.857+/-0.000  $\chi^2/\text{NDF}$ : 13877486294665

Out: 10084.167+/-0.000  $\chi^2/\text{NDF}$ : 20410392351607

All: -961.238+/-0.000  $\chi^2/\text{NDF}$ : 57015480412

dit\_usr\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 528.041+/-0.000  $\chi^2/\text{NDF}$ : 69659723827653646879006199384029265920.0/16

Left Out: 737.077+/-0.000  $\chi^2/\text{NDF}$ : 8878348978820065713830093157912543232.0/1

Right Out: -481.423+/-0.000  $\chi^2/\text{NDF}$ : 37781807344960782949995964438094544896.0/17

Left In: -1053.597+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 135.232+/-0.000  $\chi^2/\text{NDF}$ : 1813116999916530

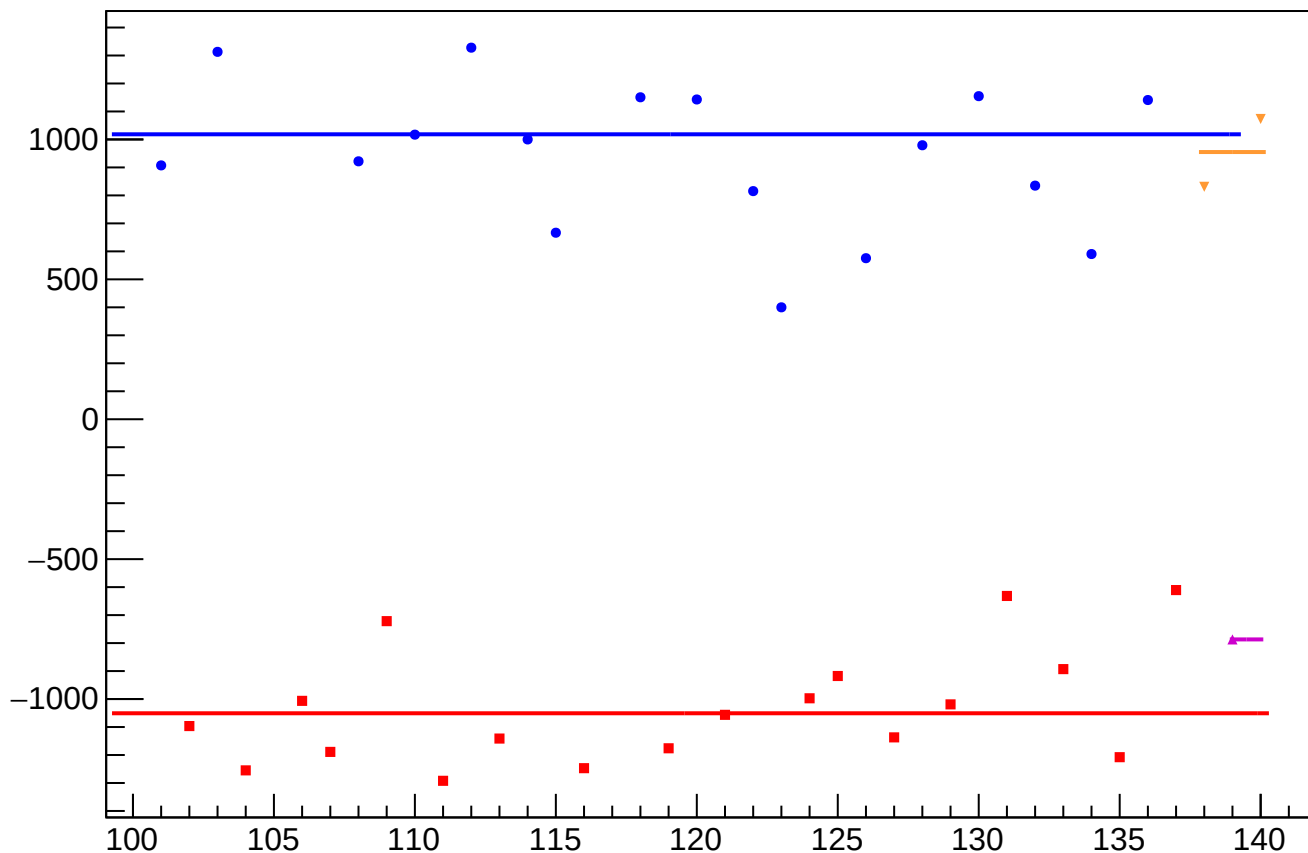
Right: 15.787+/-0.000  $\chi^2/\text{NDF}$ : 4663106171040753

In: 362.734+/-0.000  $\chi^2/\text{NDF}$ : 25110983759930990

Out: -258.611+/-0.000  $\chi^2/\text{NDF}$ : 240779553773527

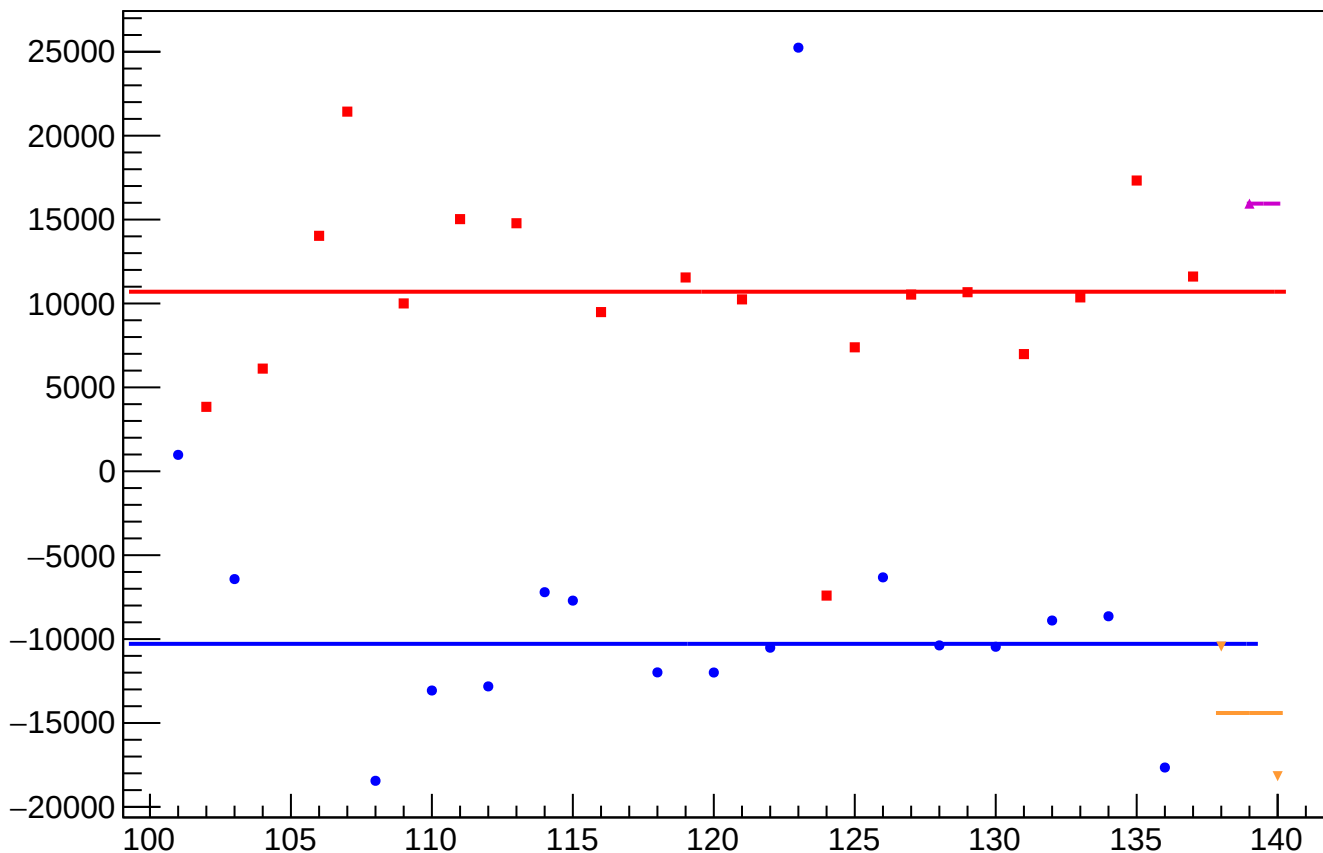
All: 33.233+/-0.000  $\chi^2/\text{NDF}$ : 6505585083654

dit\_usr\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left: 369.552+/-0.000  $\chi^2/\text{NDF}$ : 1655145661457498  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946  
 In: 829.721+/-0.000  $\chi^2/\text{NDF}$ : 26917343462376107  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Out: -684.059+/-0.000  $\chi^2/\text{NDF}$ : 555278016412223  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_atl1\_coil1\_mean vs Slug, Sign Corrected



Right In: -10283.660+/-0.000

Left Out: -14404.418+/-0.000

Right Out: 10700.860+/-0.000

Left In: 15950.843+/-0.000

$\chi^2/\text{NDF}$ : 22542685724167344155071704935611221671936.0/16

$\chi^2/\text{NDF}$ : 2387477237237535149919726762042004078592.0/1

$\chi^2/\text{NDF}$ : 17608009820774086602629870631925827239936.0/17

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

Left: -4202.027+/-0.000

Right: 364.979+/-0.000

In: -7541.731+/-0.000

Out: 6110.181+/-0.000

$\chi^2/\text{NDF}$ : 51938874065637

$\chi^2/\text{NDF}$ : 195229550865575

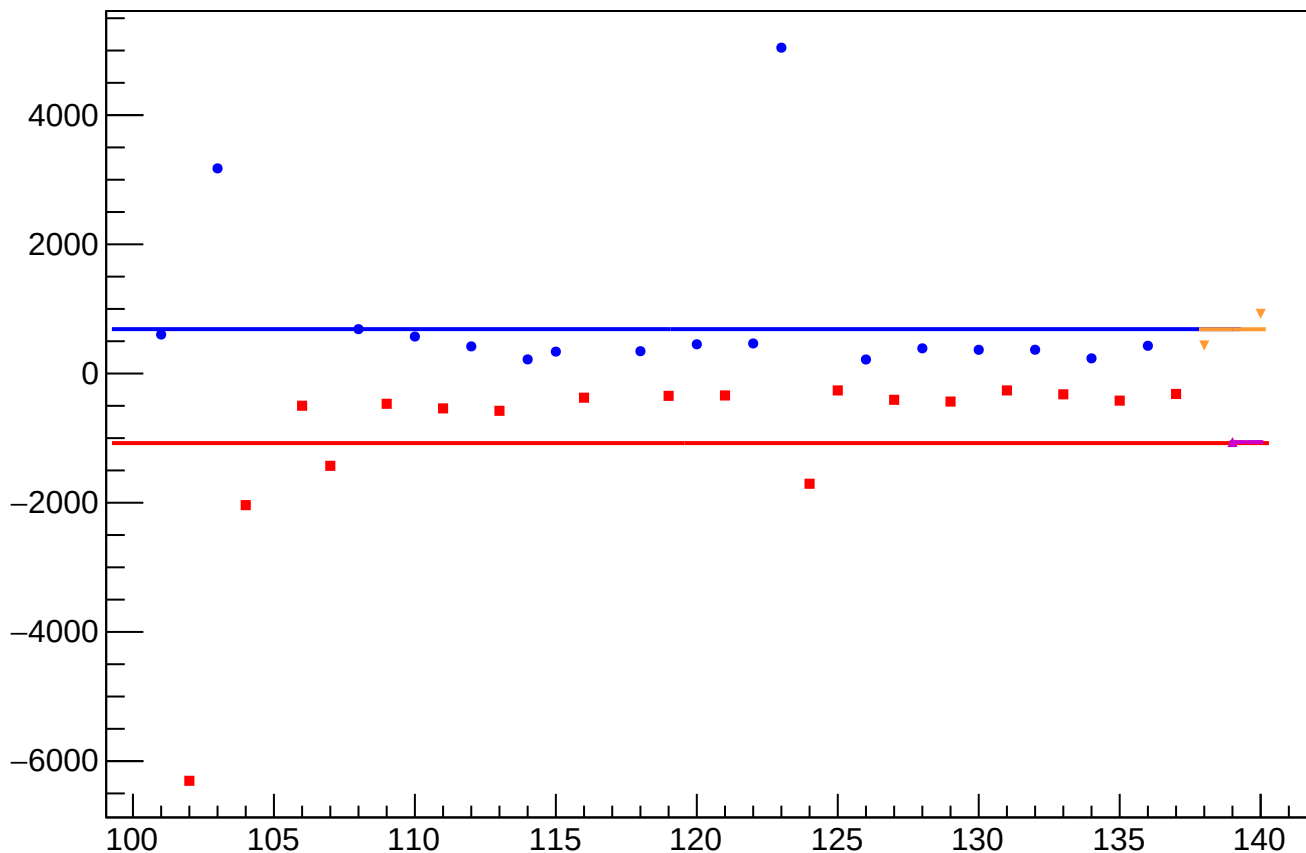
$\chi^2/\text{NDF}$ : 724642818575199

$\chi^2/\text{NDF}$ : 102399438592082

All: -302.081+/-0.000

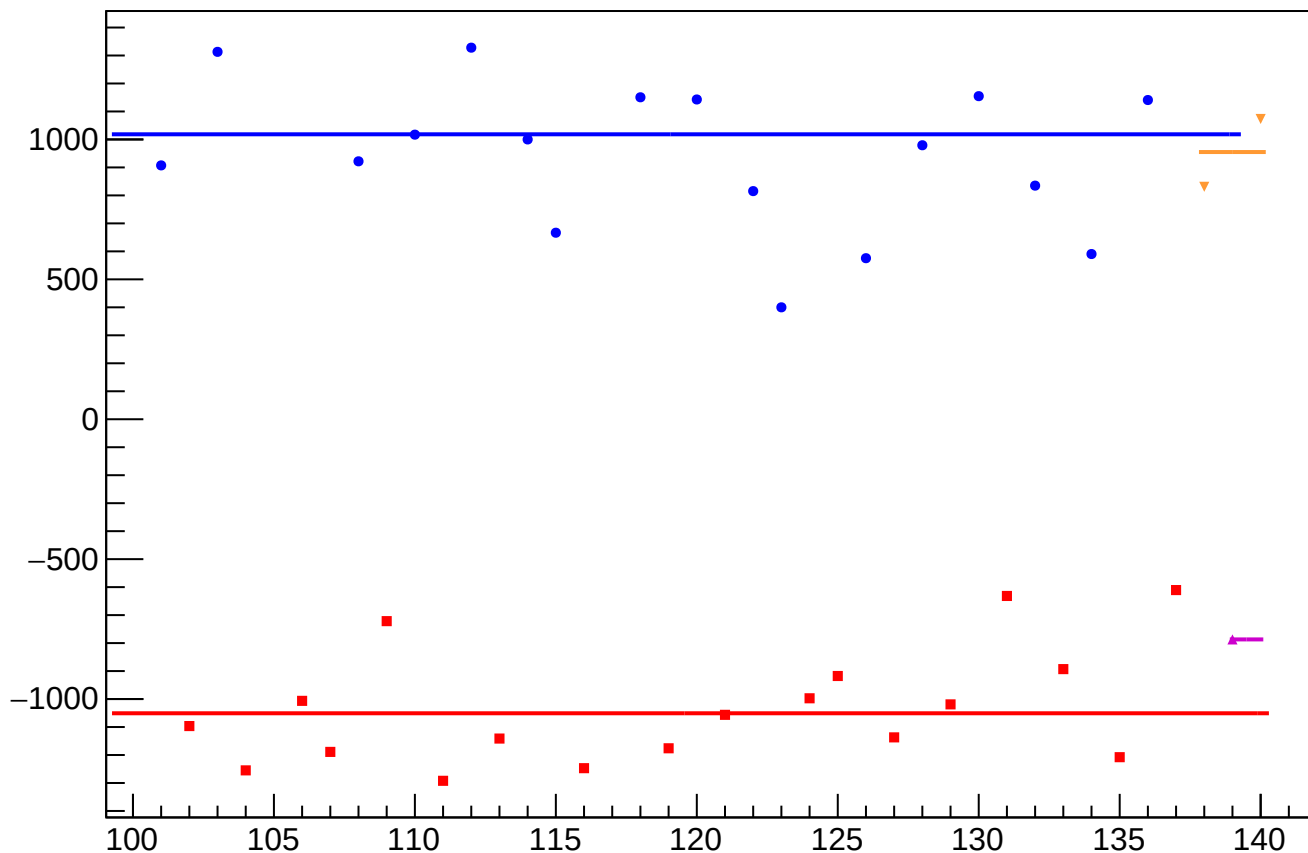
$\chi^2/\text{NDF}$ : 25146089486

dit\_atl1\_coil1\_err\_mean vs Slug, Sign Corrected



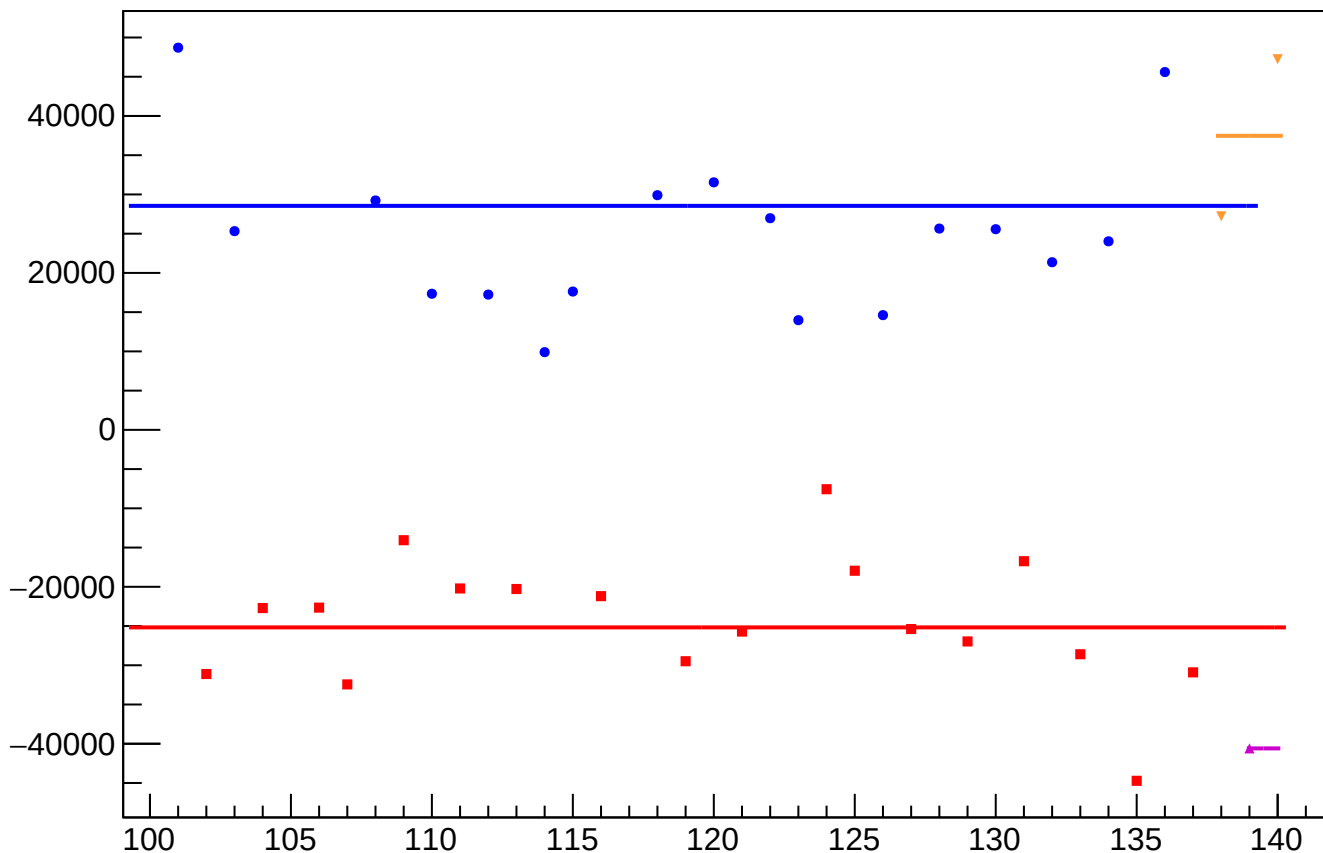
Right In: 686.989 +/- 0.000  $\chi^2/\text{NDF}$ : 493304193623954738914781428530632720384.0/16  
 Left Out: 685.314 +/- 0.000  $\chi^2/\text{NDF}$ : 9606023329079598376374422233040289792.0/1  
 Right Out: -1076.905 +/- 0.000  $\chi^2/\text{NDF}$ : 1898129082549914246384223466564869947392.0/17  
 Left In: -1060.619 +/- 0.000  $\chi^2/\text{NDF}$ : 4187601.9/0  
 All: -163.319 +/- 0.000  $\chi^2/\text{NDF}$ : 36800306847

dit\_atl1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

# dit\_atl2\_coil1\_mean vs Slug, Sign Corrected



Right In: 28545.088+/-0.000

$\chi^2/\text{NDF}$ : 79305503092498524397532941064889916456960.0/16

Left Out: 37473.636+/-0.000

$\chi^2/\text{NDF}$ : 16035091479332456407760237091827121913856.0/1

Right Out: -25173.072+/-0.000

$\chi^2/\text{NDF}$ : 42747079455180569490134671830323044548608.0/17

Left In: -40593.719+/-0.000

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

Left: 11235.230+/-0.000  $\chi^2/\text{NDF}$ : 34377315532259

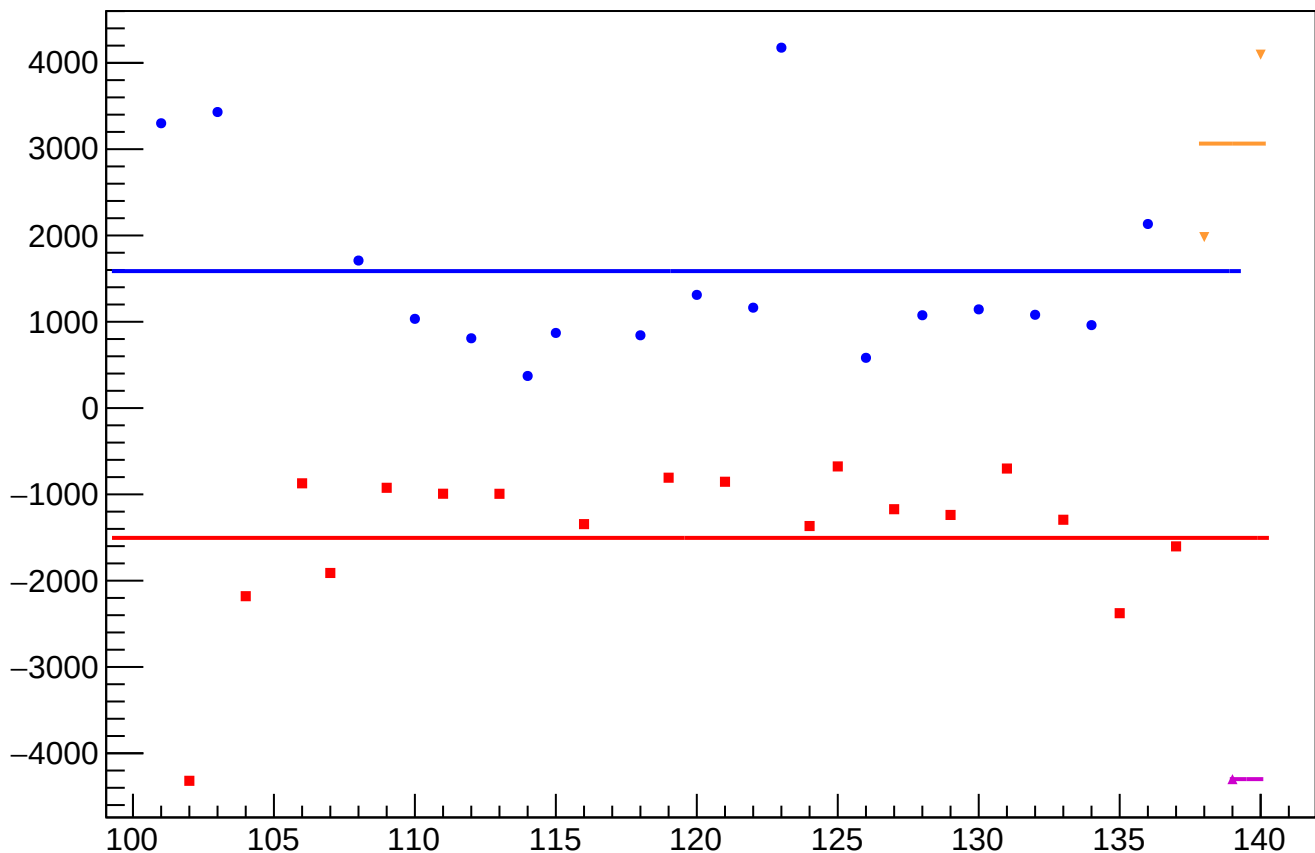
Right: 1285.695+/-0.000  $\chi^2/\text{NDF}$ : 11382937482845

In: 21318.968+/-0.000  $\chi^2/\text{NDF}$ : 426031616854272

Out: -13717.674+/-0.000  $\chi^2/\text{NDF}$ : 5718968945740

All: 2738.930+/-0.000  $\chi^2/\text{NDF}$ : 1502439653

dit\_atl2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 1587.187 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 615324434940076903003531567179686215680.0/16

Left Out: 3064.623 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 178621491707288706083763381973213511680.0/1

Right Out: -1504.230 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 678771439829187339393474850676239499264.0/17

Left In: -4299.604 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 67001629.6/0

Left: 589.509 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3094989599008901

Right: 18.441 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4659752157660291

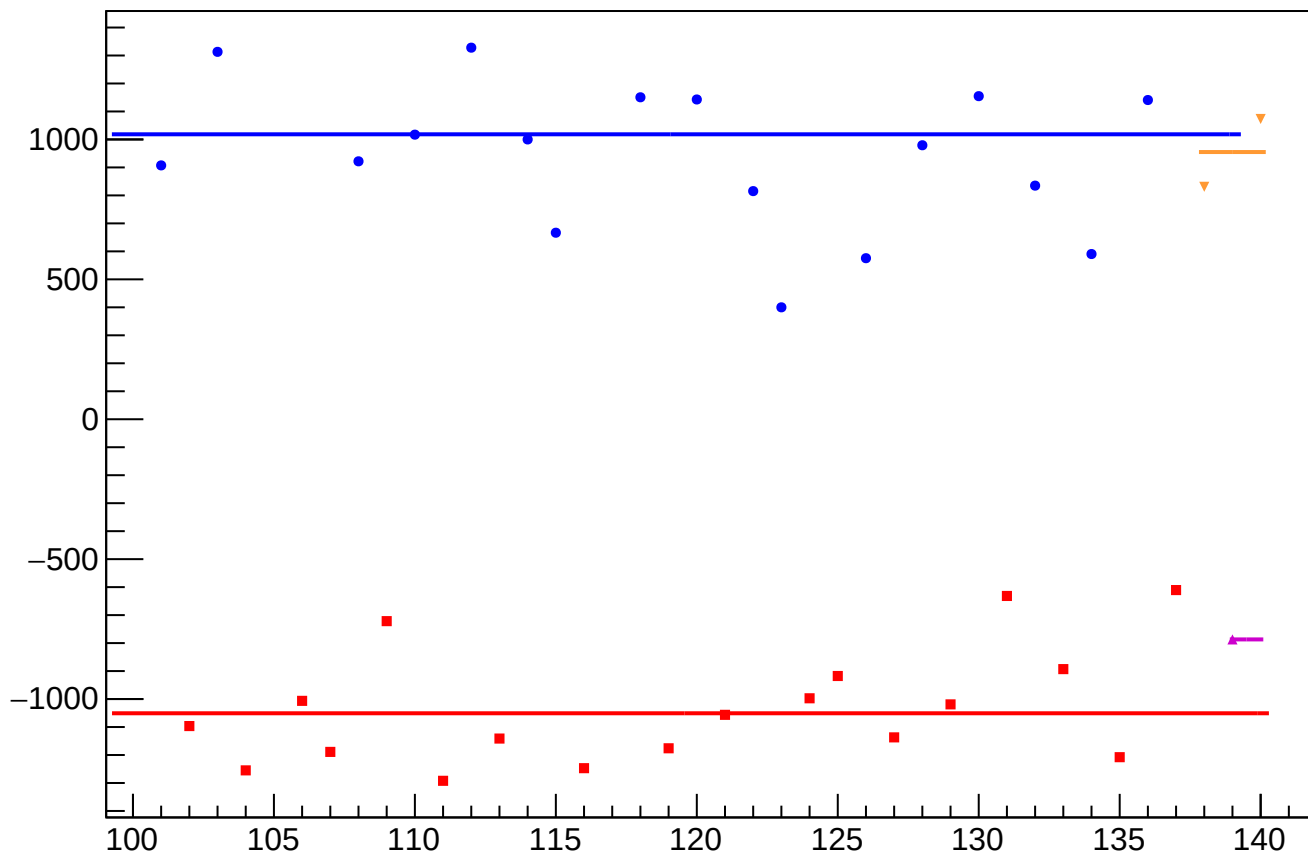
In: 971.923 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 3128947011478995

Out: -668.783 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 358657430322644

All: 101.852 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 782185688435

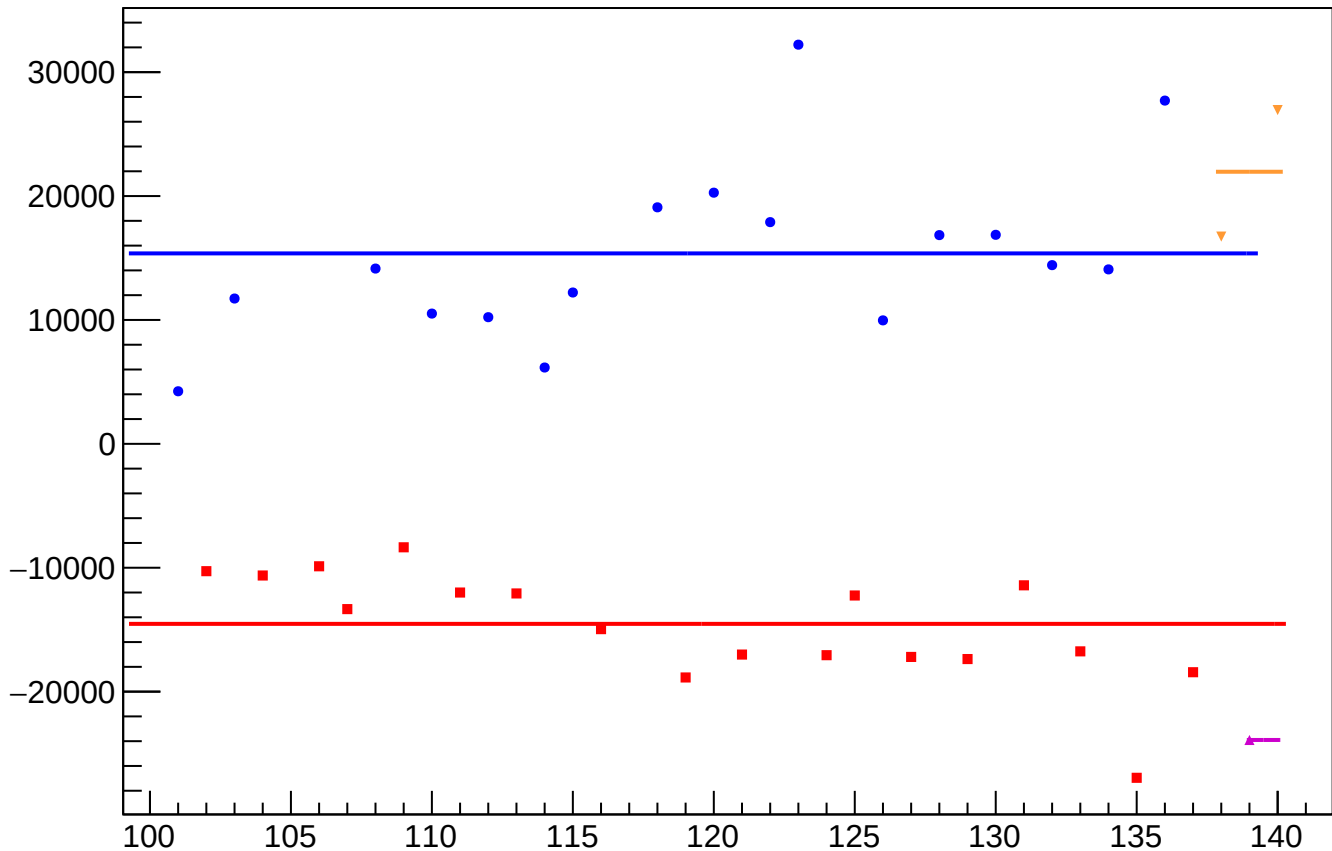


dit\_atl2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



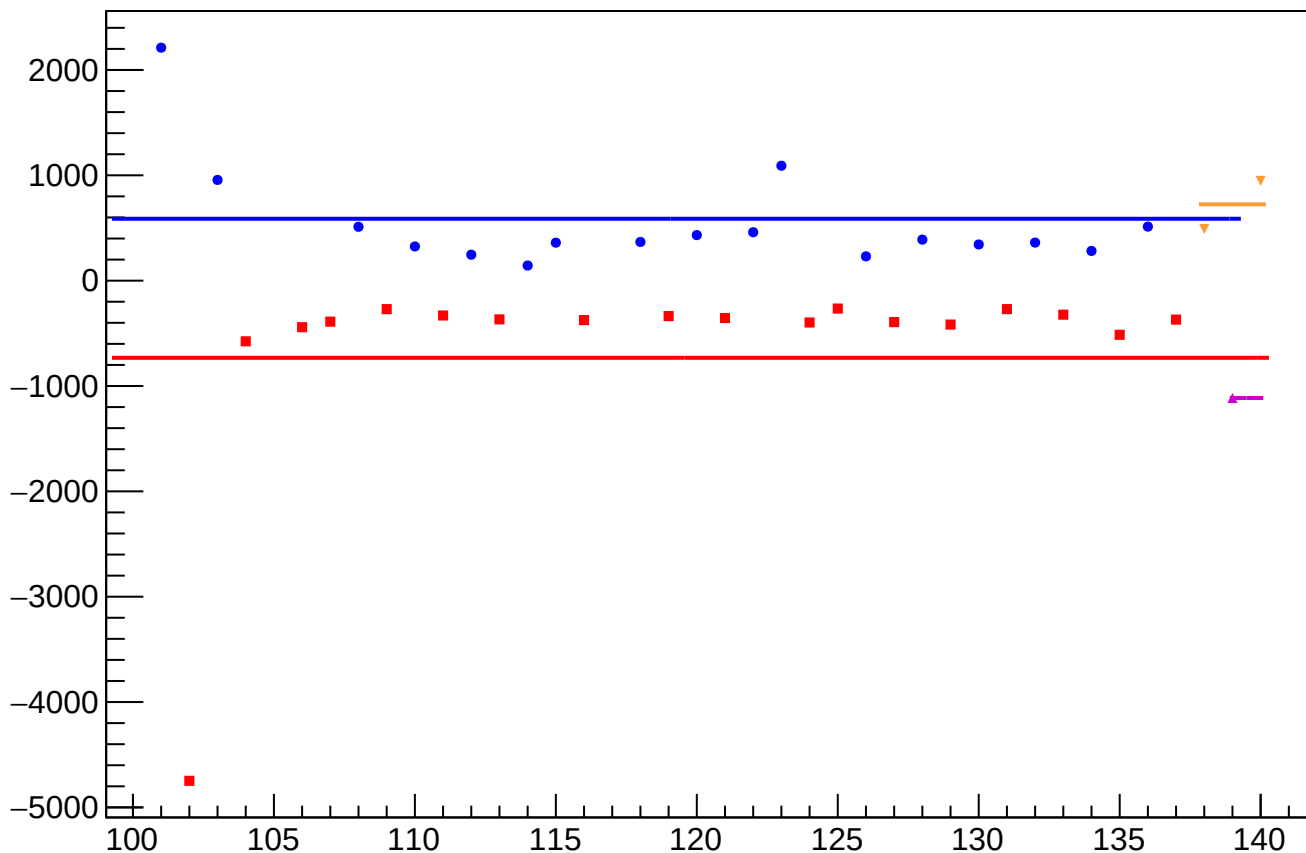
|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

# dit\_atr1\_coil1\_mean vs Slug, Sign Corrected



Right In: 15371.957+/-0.000  $\chi^2/\text{NDF}$ : 29284474571084462407736251938608521412608.0/16  
 Left Out: 21962.621+/-0.000  $\chi^2/\text{NDF}$ : 4169747356555460241617620361175185227776.0/1  
 Right Out: -14530.553+/-0.000  $\chi^2/\text{NDF}$ : 15462988113686651104588076983529515253760.0/17  
 Left In: -23902.112+/-0.000  $\chi^2/\text{NDF}$ : 1072026073.9/0  
 All: 1125.298+/-0.000  $\chi^2/\text{NDF}$ : 48523418927

dit\_atr1\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 587.577+/-0.000  $\chi^2/\text{NDF}$ : 195107984512310448986091727250308202496.0/16

Left Out: 724.498+/-0.000  $\chi^2/\text{NDF}$ : 8351682614851161485283211018495852544.0/1

Right Out: -732.166+/-0.000  $\chi^2/\text{NDF}$ : 1022613131551712750449458449642369843200.0/17

Left In: -1113.753+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 106.663+/-0.000  $\chi^2/\text{NDF}$ : 1900696140072399

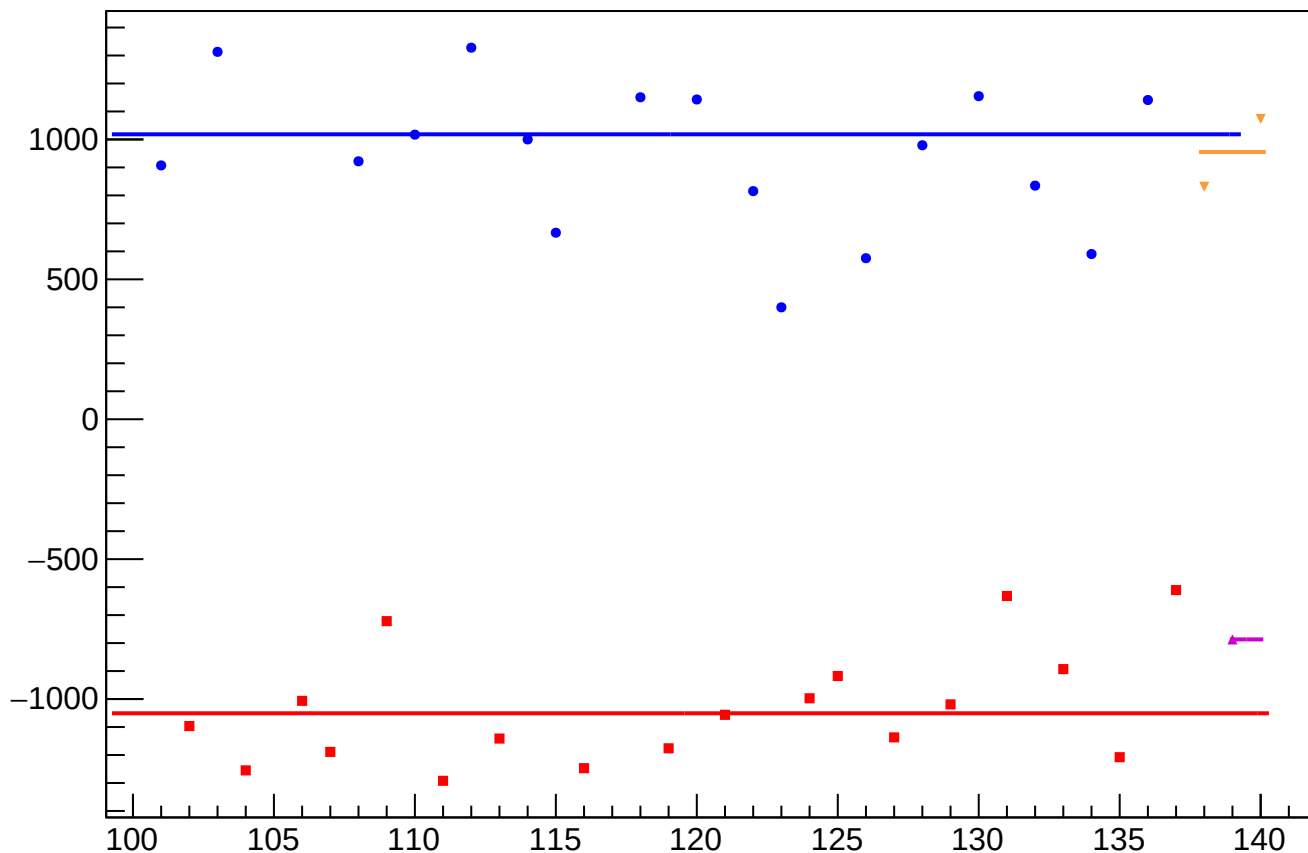
Right: -82.129+/-0.000  $\chi^2/\text{NDF}$ : 183110703543957

In: 409.761+/-0.000  $\chi^2/\text{NDF}$ : 40506010897692830

Out: -465.805+/-0.000  $\chi^2/\text{NDF}$ : 130838436990639

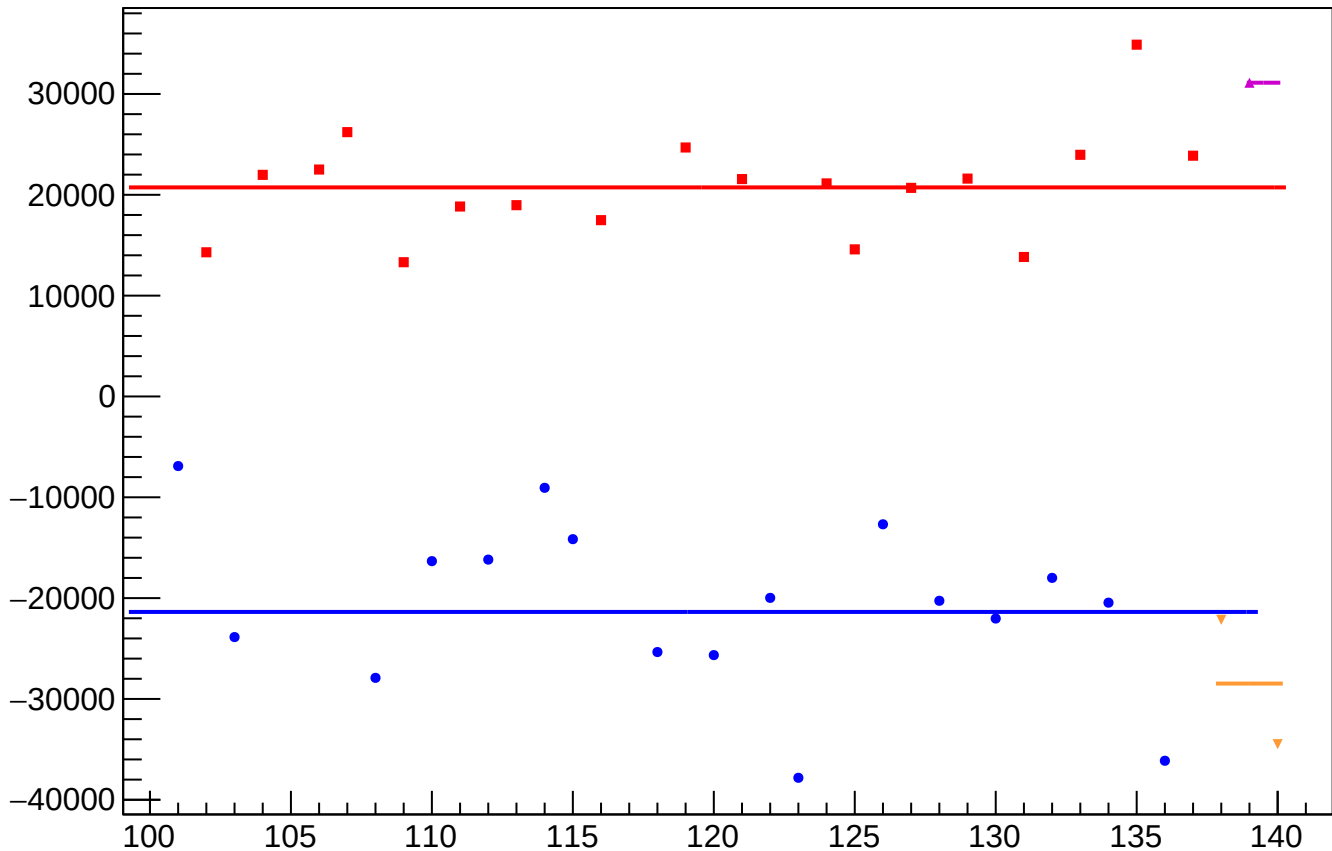
All: -54.554+/-0.000  $\chi^2/\text{NDF}$ : 202851183317

dit\_atr1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_atr2\_coil1\_mean vs Slug, Sign Corrected



Right In: -21370.339+/-0.000

Left Out: -28473.177+/-0.000

Right Out: 20735.001+/-0.000

Left In: 31117.594+/-0.000

$\chi^2/\text{NDF}$ : 44476087148423218769698830448172004802560.0/16

$\chi^2/\text{NDF}$ : 6081332737230928589764625859666205736960.0/1

$\chi^2/\text{NDF}$ : 21267884844776863671050573800564620001280.0/17

$\chi^2/\text{NDF}$ : 1072026073.9/0

Left: -8444.743+/-0.000  $\chi^2/\text{NDF}$ : 19704289666233

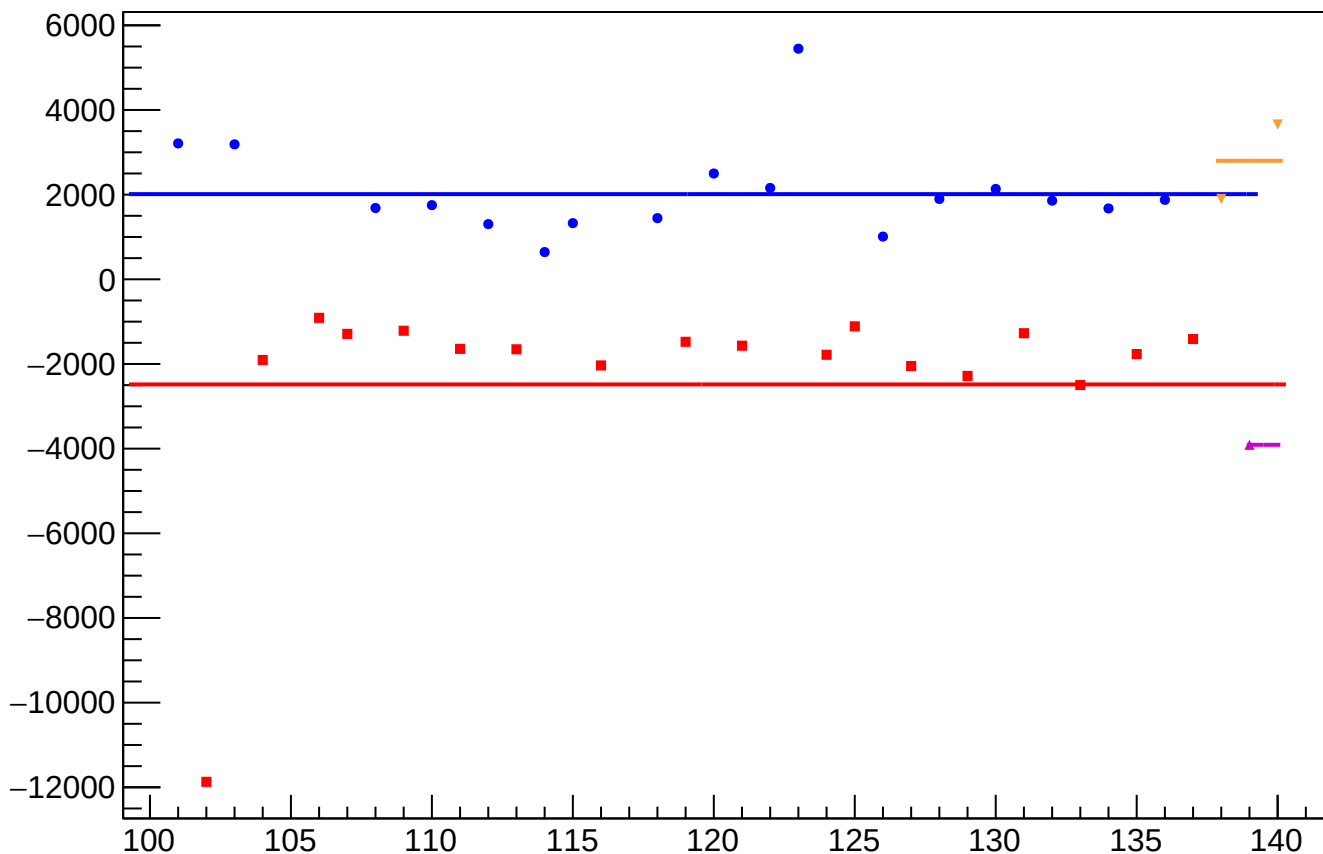
Right: -3.896+/-0.000  $\chi^2/\text{NDF}$ : 6900950472840911

In: -15884.503+/-0.000  $\chi^2/\text{NDF}$ : 24430656383225

Out: 11736.934+/-0.000  $\chi^2/\text{NDF}$ : 34393581706439

All: -1236.771+/-0.000  $\chi^2/\text{NDF}$ : 9018007188

# dit\_atr2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 2011.970+/-0.000

$\chi^2/\text{NDF}$ : 346652592308673178727003456260959895552.0/16

Left Out: 2800.024+/-0.000

$\chi^2/\text{NDF}$ : 123743128587433254166960629854286905344.0/1

Right Out: -2482.921+/-0.000

$\chi^2/\text{NDF}$ : 5673812113008855047349052904680066121728.0/17

Left In: -3909.627+/-0.000

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

Left: 544.913+/-0.000  $\chi^2/\text{NDF}$ : 2544704097135887

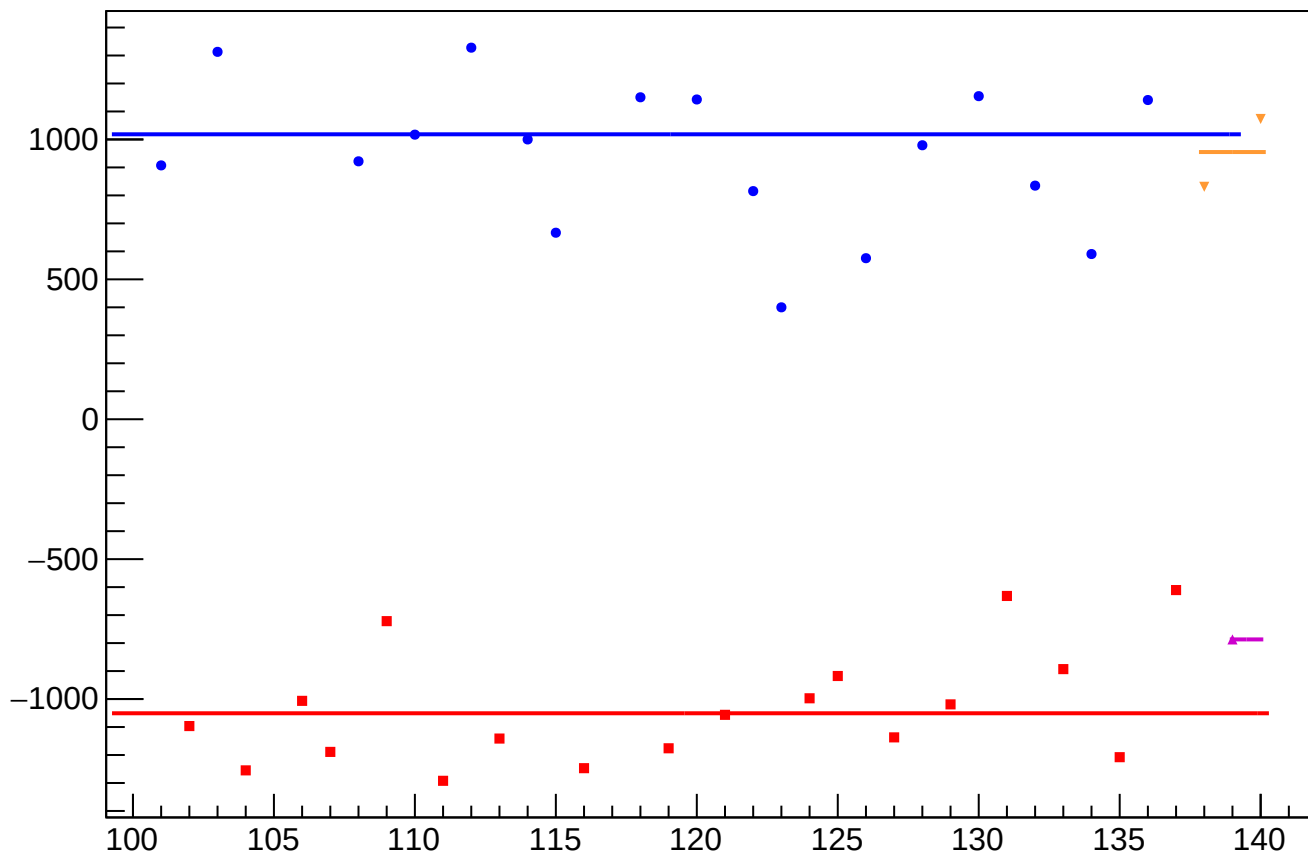
Right: -268.972+/-0.000  $\chi^2/\text{NDF}$ : 13135759279301

In: 1393.068+/-0.000  $\chi^2/\text{NDF}$ : 2890086771003376

Out: -1516.897+/-0.000  $\chi^2/\text{NDF}$ : 94465237482196

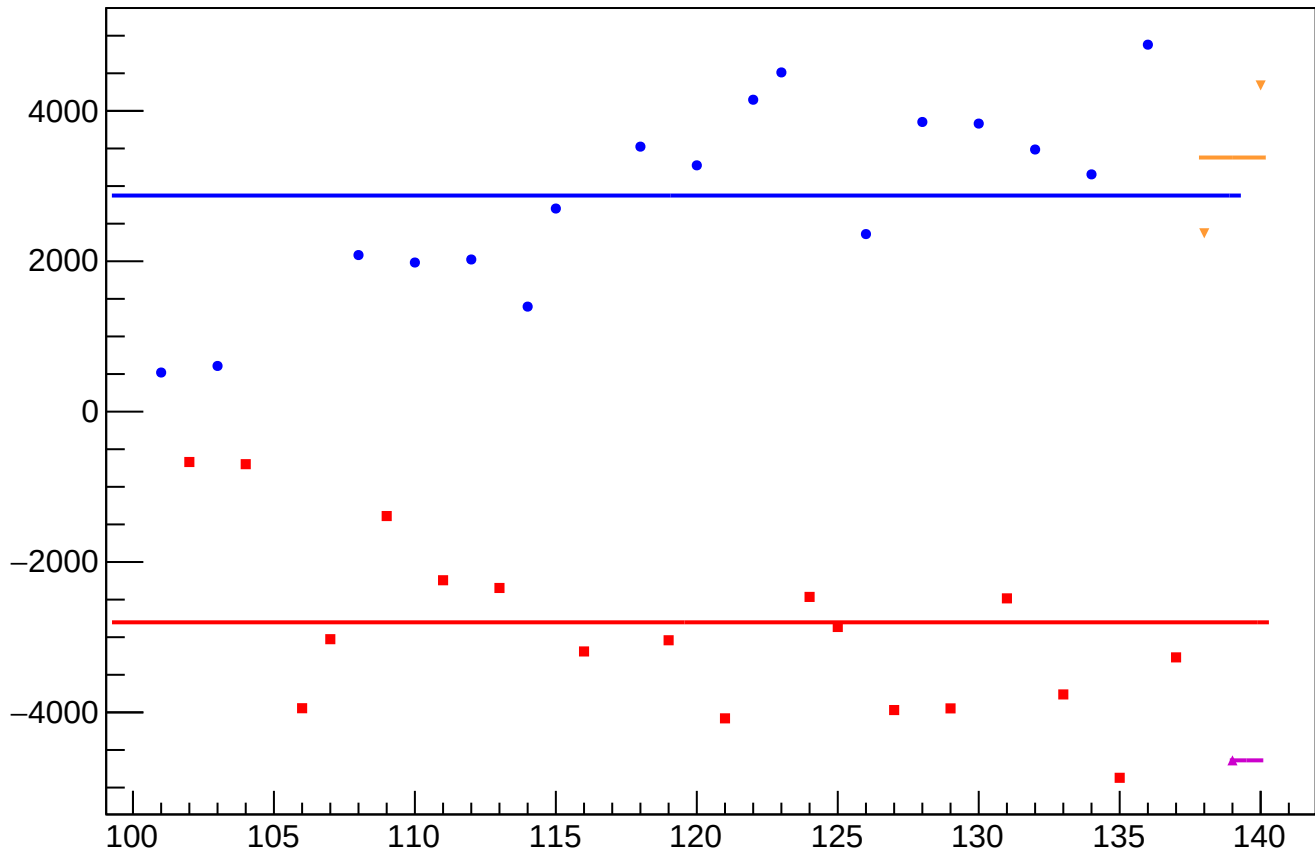
All: -150.095+/-0.000  $\chi^2/\text{NDF}$ : 15816786608

dit\_atr2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

dit\_sam1\_coil1\_mean vs Slug, Sign Corrected



Right In: 2874.142+/-0.000

$\chi^2/\text{NDF}$ : 1331222919424099285024540359740568371200.0/16

Left Out: 3379.780+/-0.000

$\chi^2/\text{NDF}$ : 154595201522742226737056315201449623552.0/1

Right Out: -2802.151+/-0.000

$\chi^2/\text{NDF}$ : 1095477572477657195402092119674444578816.0/17

Left In: -4638.015+/-0.000

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

Left: 685.002+/-0.000  $\chi^2/\text{NDF}$ : 3611582473119122

Right: -6.305+/-0.000  $\chi^2/\text{NDF}$ : 1377378424519610

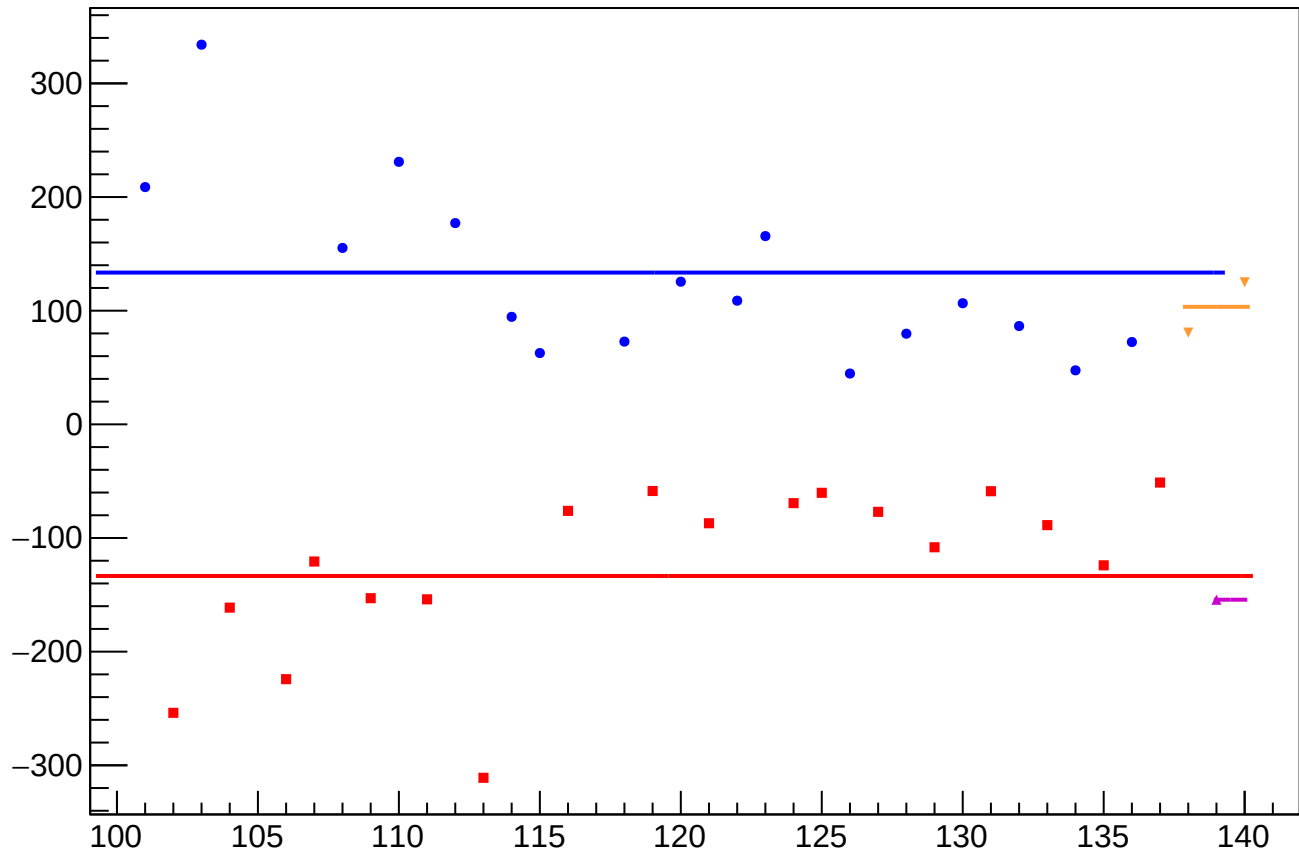
In: 2089.001+/-0.000  $\chi^2/\text{NDF}$ : 5424508954644309

Out: -1671.741+/-0.000  $\chi^2/\text{NDF}$ : 62465775655815

All: 94.668+/-0.000  $\chi^2/\text{NDF}$ : 1748371941495

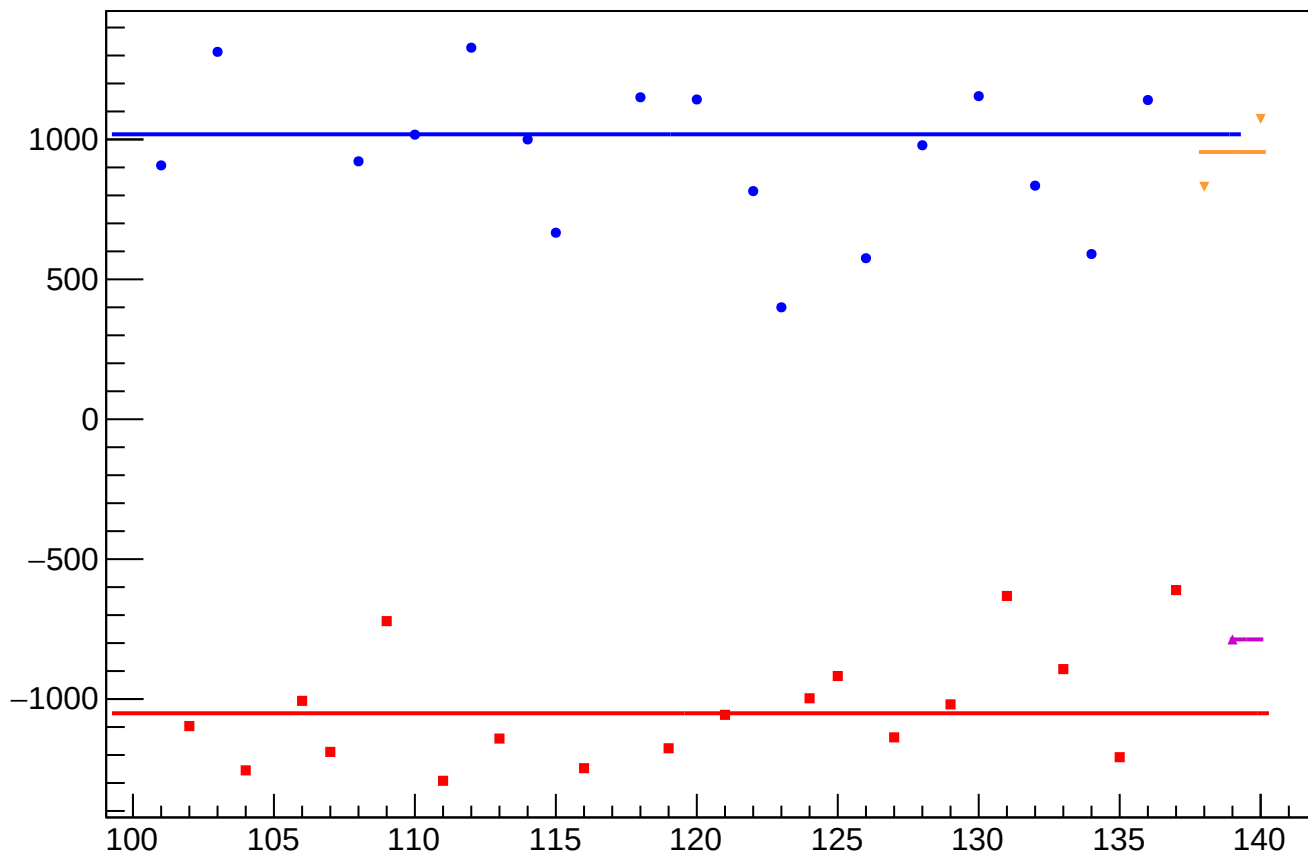


dit\_sam1\_coil1\_err\_mean vs Slug, Sign Corrected



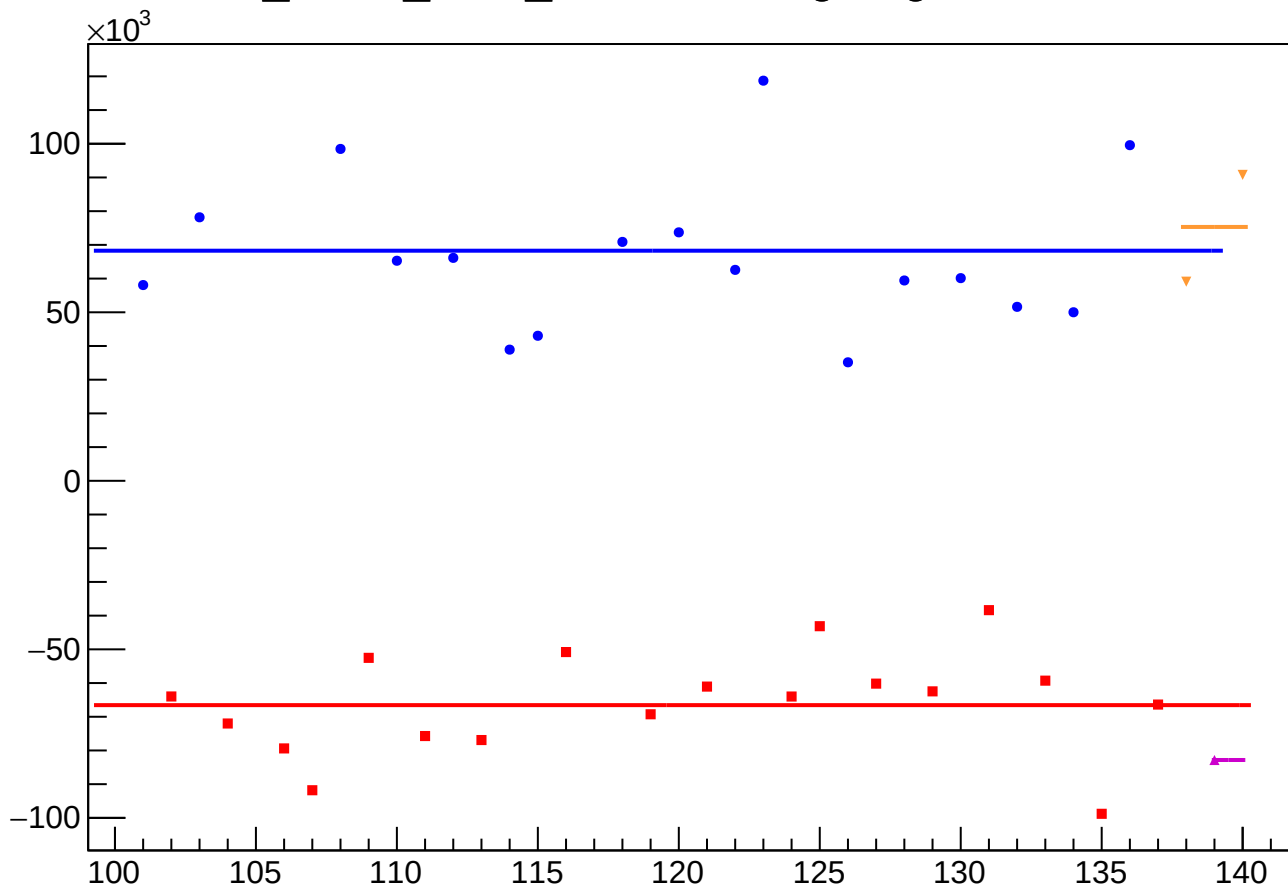
Right In: 133.542 +/- 0.000  $\chi^2/\text{NDF}: 4543635536863363524362136904007680000.0/16$   
 Left Out: 103.400 +/- 0.000  $\chi^2/\text{NDF}: 78348992875658061823961814452404224.0/1$   
 Right Out: -133.414 +/- 0.000  $\chi^2/\text{NDF}: 3923674220000100911612282920536899584.0/17$   
 Left In: -154.296 +/- 0.000  $\chi^2/\text{NDF}: 0.0/0$   
 All: 0.808 +/- 0.000  $\chi^2/\text{NDF}: 37286554771570$

dit\_sam1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



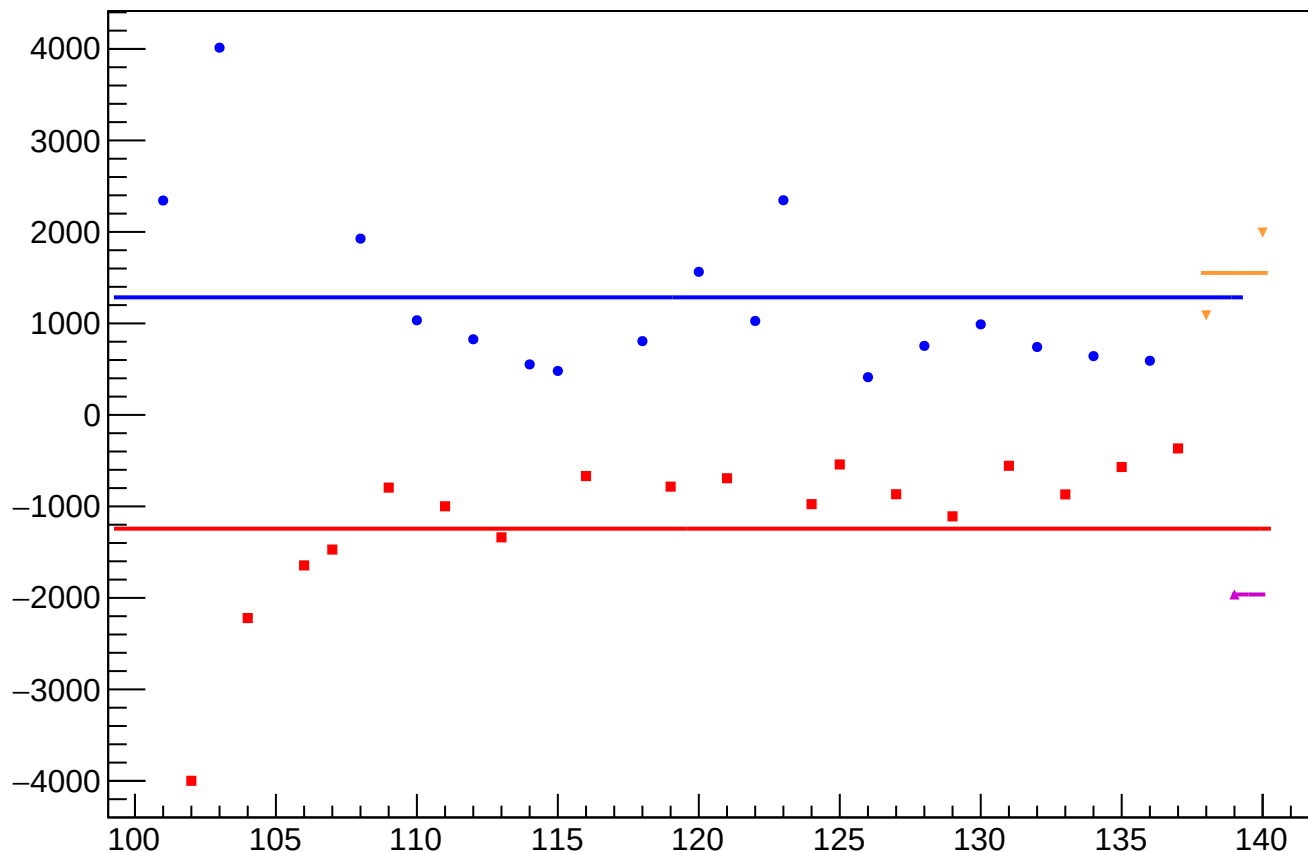
Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_sam2\_coil1\_mean vs Slug, Sign Corrected



Right In: 68271.144+/-0.000  $\chi^2/\text{NDF}$ : 235026660939690757848337831565145453625344.0/16  
 Left Out: 75319.117+/-0.000  $\chi^2/\text{NDF}$ : 40136737709435609048858165408260530634752.0/1  
 Right Out: -66552.333+/-0.000  $\chi^2/\text{NDF}$ : 160169834970936771160063883899631076114432.0/17  
 Left In: -82828.100+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 3113.478+/-0.000  $\chi^2/\text{NDF}$ : 82842997143

# dit\_sam2\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 1284.940+/-0.000

$\chi^2/\text{NDF}$ : 683539831030777721568567692799915327488.0/16

Left Out: 1551.724+/-0.000

$\chi^2/\text{NDF}$ : 32700206715745282980806811526268715008.0/1

Right Out: -1243.357+/-0.000

$\chi^2/\text{NDF}$ : 625737092307119238017872949095807582208.0/17

Left In: -1962.567+/-0.000

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

Left: 370.572+/-0.000  $\chi^2/\text{NDF}$ : 6968459977124403

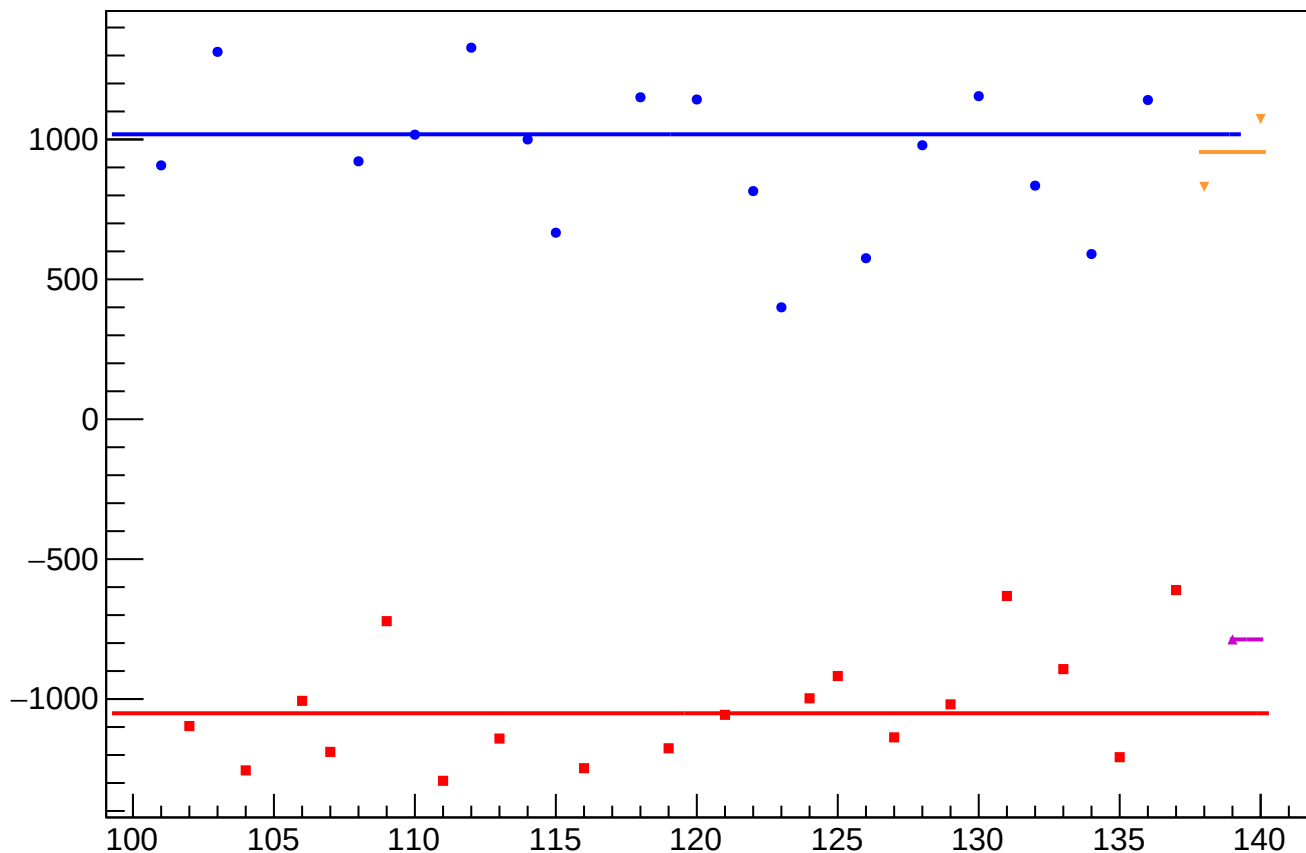
Right: 1.951+/-0.000  $\chi^2/\text{NDF}$ : 35604598921412433

In: 945.523+/-0.000  $\chi^2/\text{NDF}$ : 14485075047551217

Out: -732.257+/-0.000  $\chi^2/\text{NDF}$ : 167986296205307

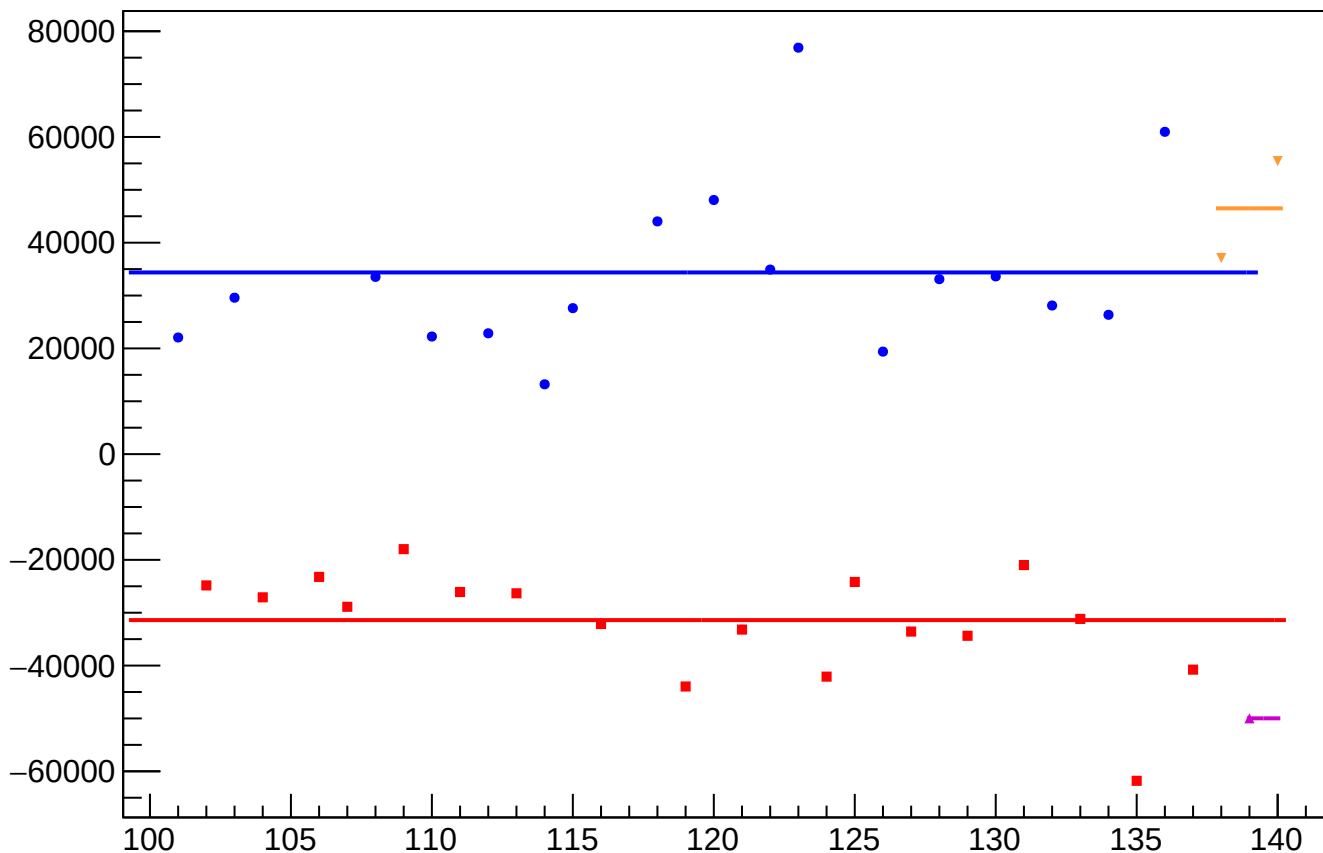
All: 55.792+/-0.000  $\chi^2/\text{NDF}$ : 4285270311218

dit\_sam2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_sam3\_coil1\_mean vs Slug, Sign Corrected



Right In: 34369.403+/-0.000

$\chi^2/\text{NDF}$ : 121175034584498762854553117020903178240000.0/16

Left Out: 46495.303+/-0.000

$\chi^2/\text{NDF}$ : 13430477206527856117184293409056607961088.0/1

Right Out: -31397.869+/-0.000

$\chi^2/\text{NDF}$ : 79791187049723357576303825736183029170176.0/17

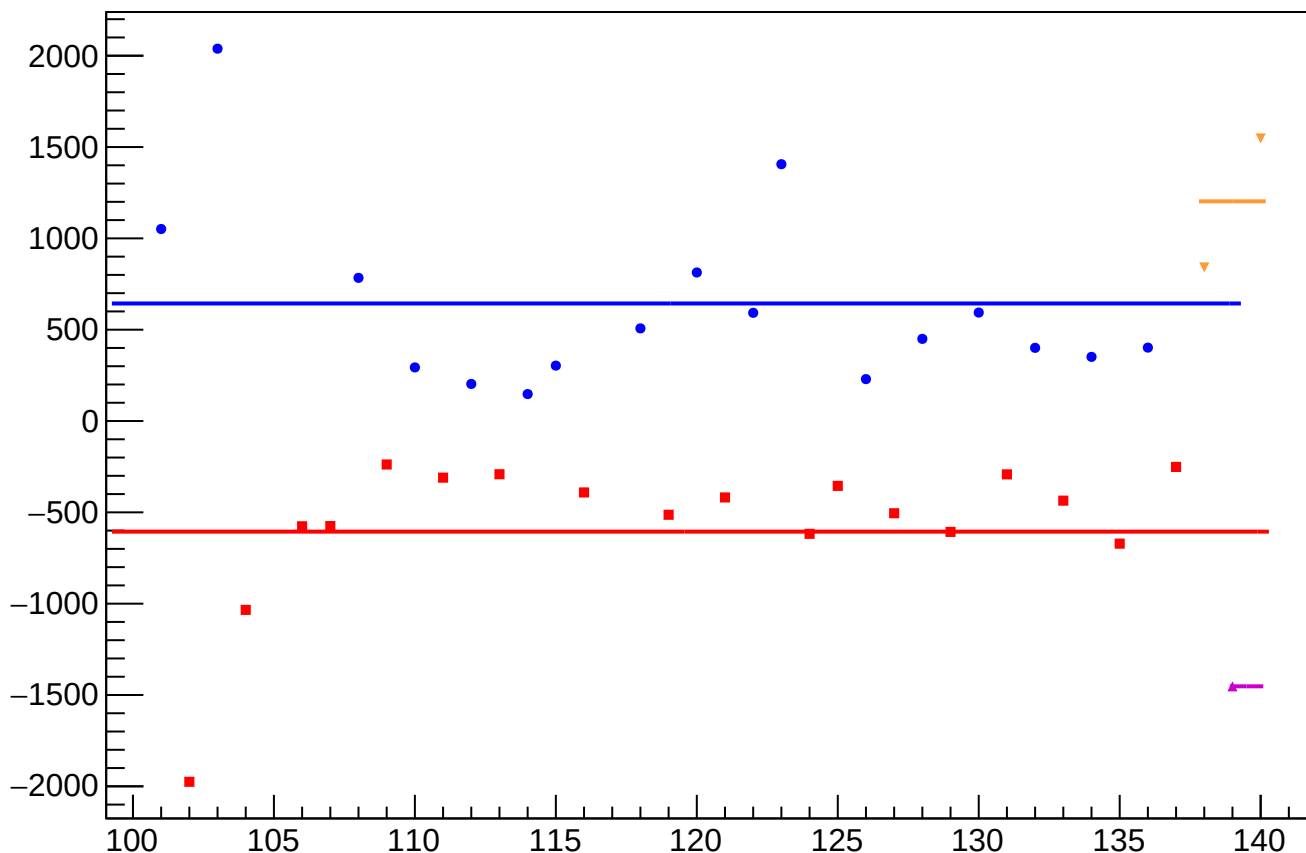
Left In: -49980.201+/-0.000

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

All: 2905.298+/-0.000

$\chi^2/\text{NDF}$ : 22733565064

# dit\_sam3\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 643.513+/-0.000

$\chi^2/\text{NDF}$ : 166606755510131009794947888972916850688.0/16

Left Out: 1202.810+/-0.000

$\chi^2/\text{NDF}$ : 19932242188883847575972643835433975808.0/1

Right Out: -605.599+/-0.000

$\chi^2/\text{NDF}$ : 146641318103644748879900892058773094400.0/17

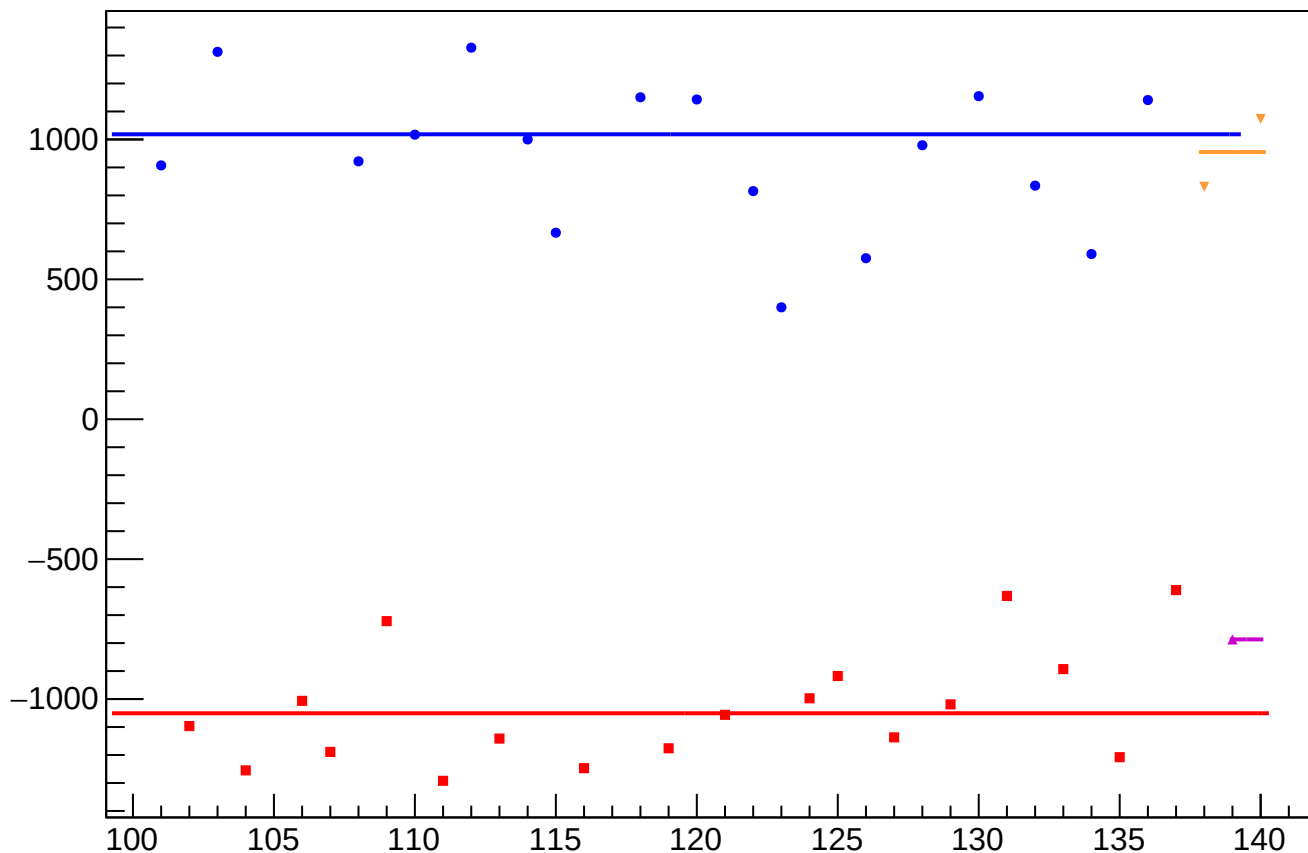
Left In: -1452.497+/-0.000

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

All: 53.571+/-0.000

$\chi^2/\text{NDF}$ : 1280433223996

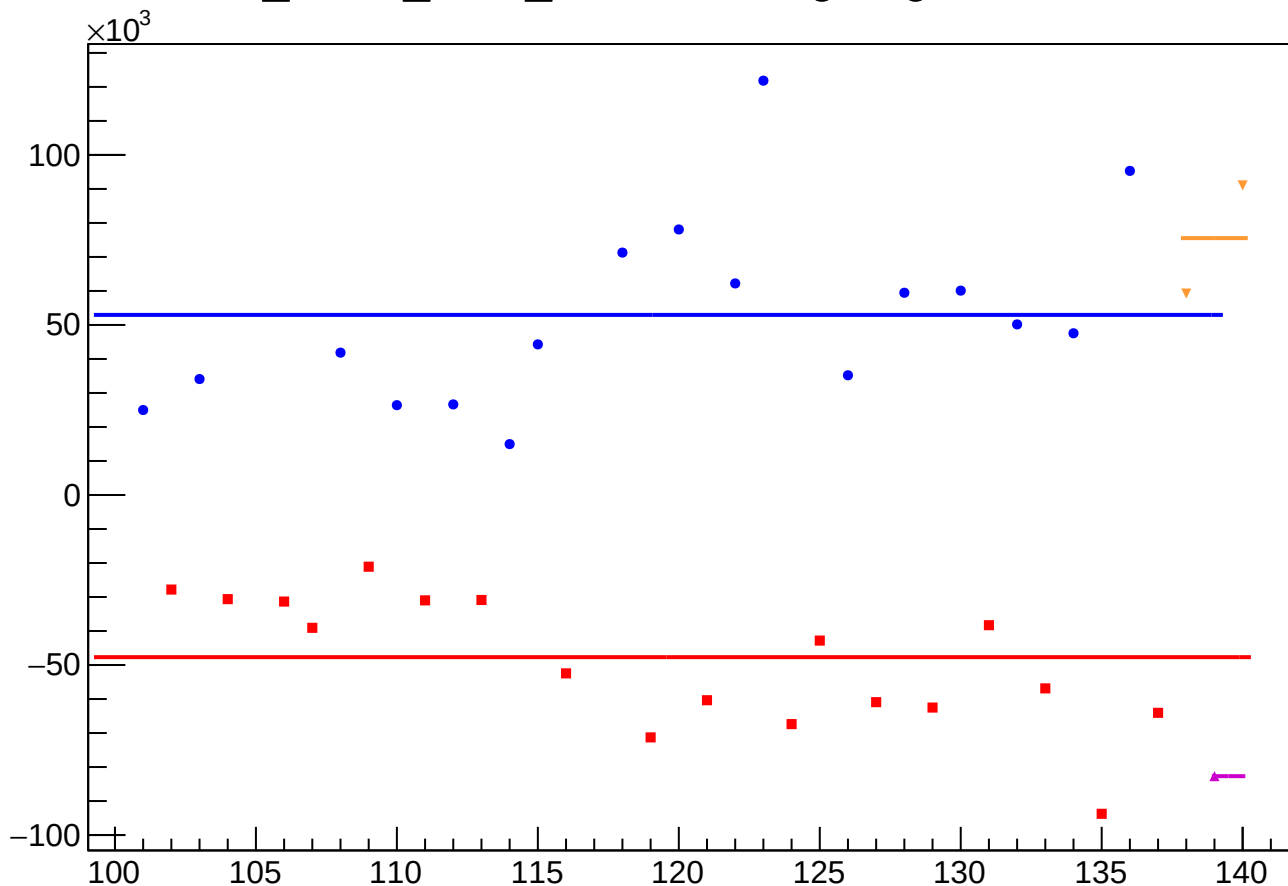
dit\_sam3\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |



# dit\_sam4\_coil1\_mean vs Slug, Sign Corrected



Right In: 52960.923+/-0.000

$\chi^2/\text{NDF}$ : 388091282862865702902242590456549457526784.0/16

Left Out: 75535.215+/-0.000

$\chi^2/\text{NDF}$ : 40433686360336342657972501917594147618816.0/1

Right Out: -47689.948+/-0.000

$\chi^2/\text{NDF}$ : 282811495062805394257124892434373518819328.0/17

Left In: -82683.627+/-0.000

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

Left: 22357.928+/-0.000  $\chi^2/\text{NDF}$ : 13866175066125

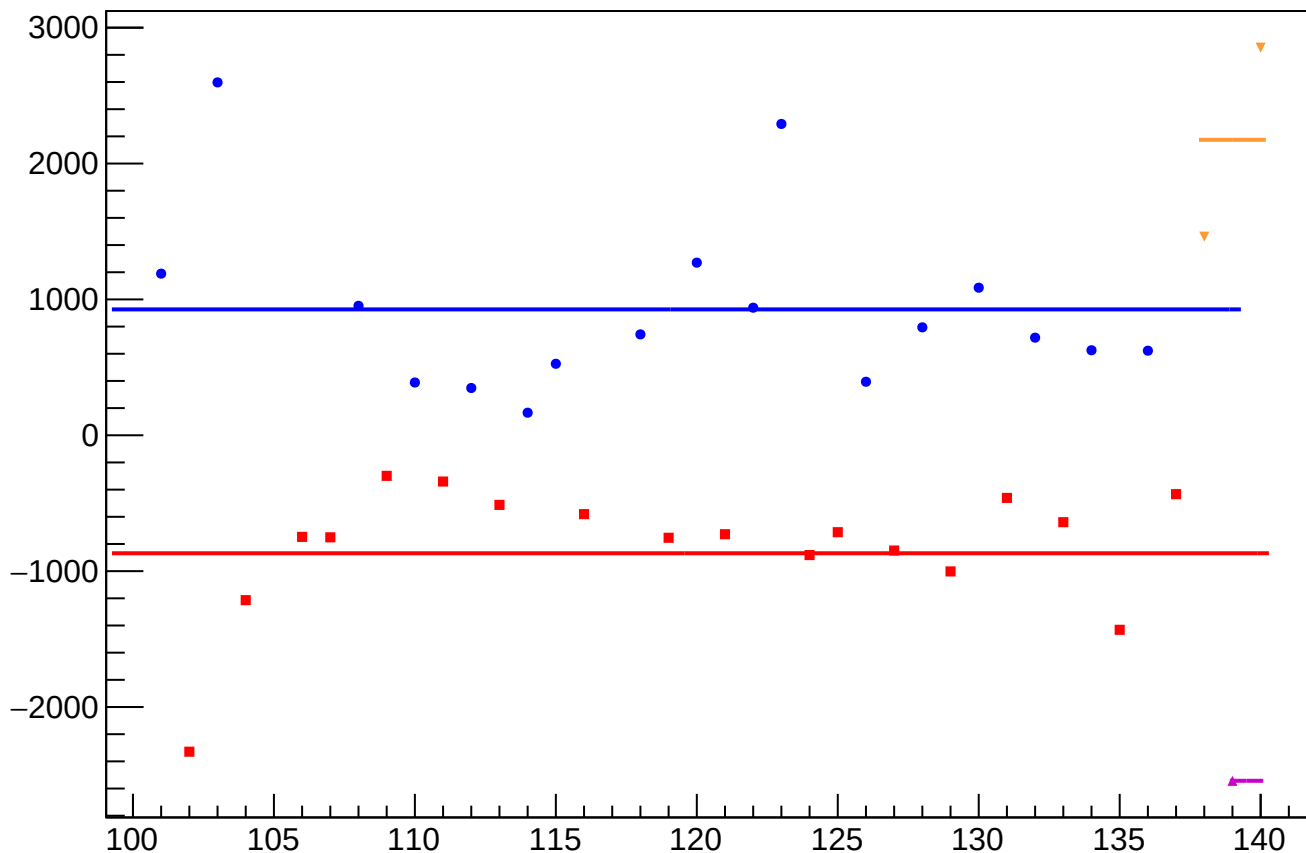
Right: 1885.428+/-0.000  $\chi^2/\text{NDF}$ : 42386131622338

In: 38783.880+/-0.000  $\chi^2/\text{NDF}$ : 172268011986704

Out: -25157.346+/-0.000  $\chi^2/\text{NDF}$ : 2308502360117

All: 4875.654+/-0.000  $\chi^2/\text{NDF}$ : 57114859814

dit\_sam4\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 926.486+/-0.000

$\chi^2/\text{NDF}$ : 243573676873909042150690872266806263808.0/16

Left Out: 2174.731+/-0.000

$\chi^2/\text{NDF}$ : 77338906813018409984323810741272444928.0/1

Right Out: -868.248+/-0.000

$\chi^2/\text{NDF}$ : 197961184826469333991871261895452262400.0/17

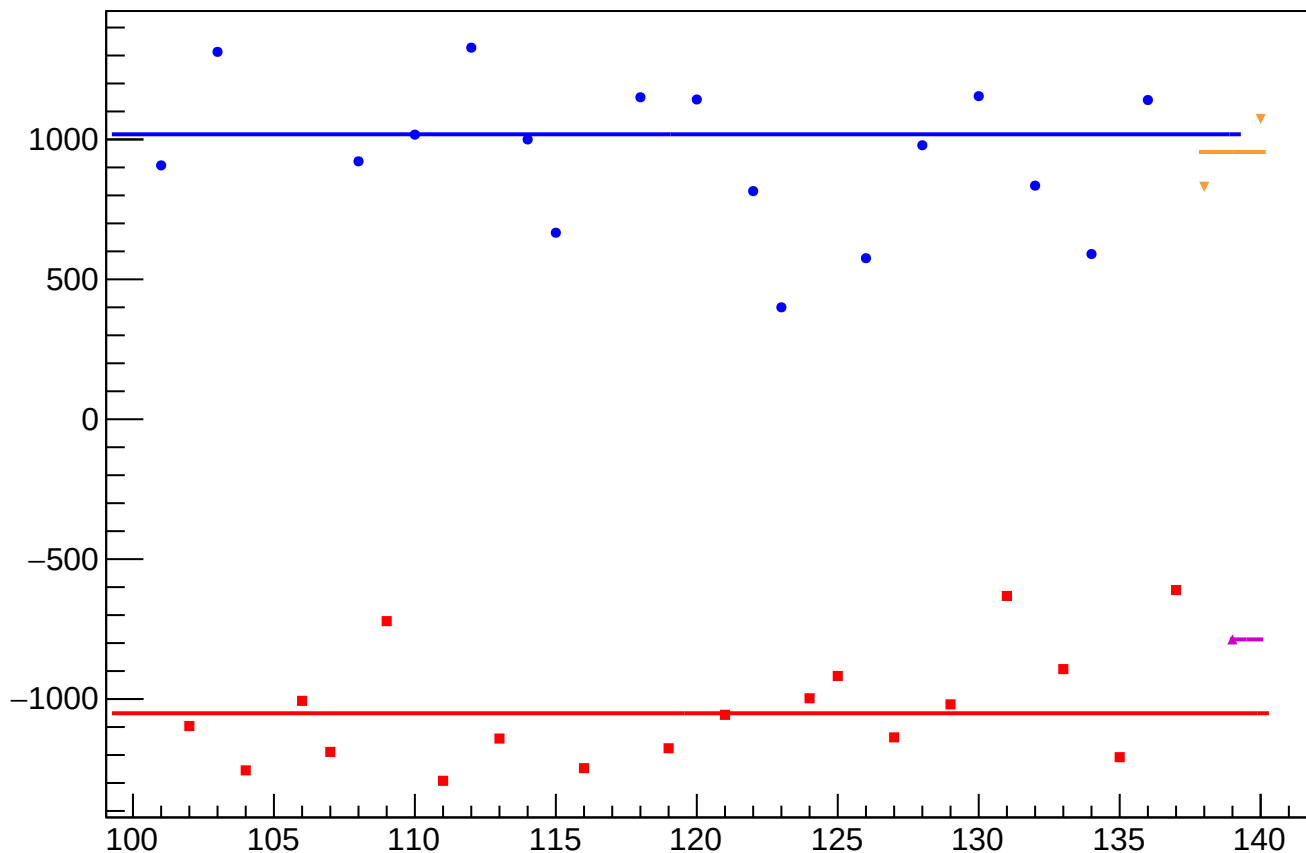
Left In: -2543.018+/-0.000

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

Out: -311.818+/-0.000  $\chi^2/\text{NDF}$ : 148594233196365

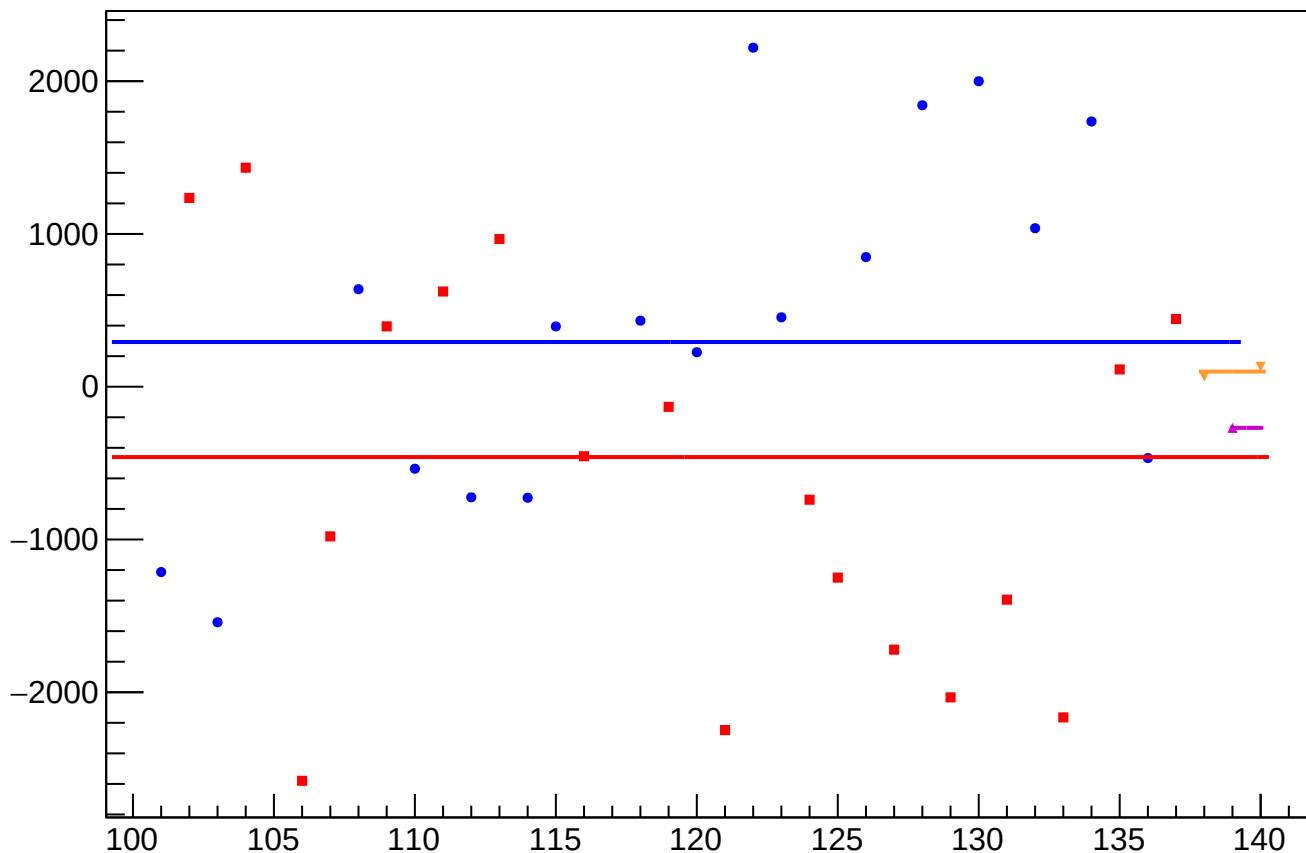
All: 99.489+/-0.000  $\chi^2/\text{NDF}$ : 2917795989293

dit\_sam4\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

# dit\_sam5\_coil1\_mean vs Slug, Sign Corrected



Right In: 292.624+/-0.000

$\chi^2/\text{NDF}$ : 992224758361668568621384832231814463488.0/16

Left Out: 99.216+/-0.000

$\chi^2/\text{NDF}$ : 162497799805291072298346017328201728.0/1

Right Out: -460.444+/-0.000

$\chi^2/\text{NDF}$ : 1195390620297922800798852366593102446592.0/17

Left In: -269.254+/-0.000

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

In: 233.898+/-0.000

$\chi^2/\text{NDF}$ : 10151242479860200

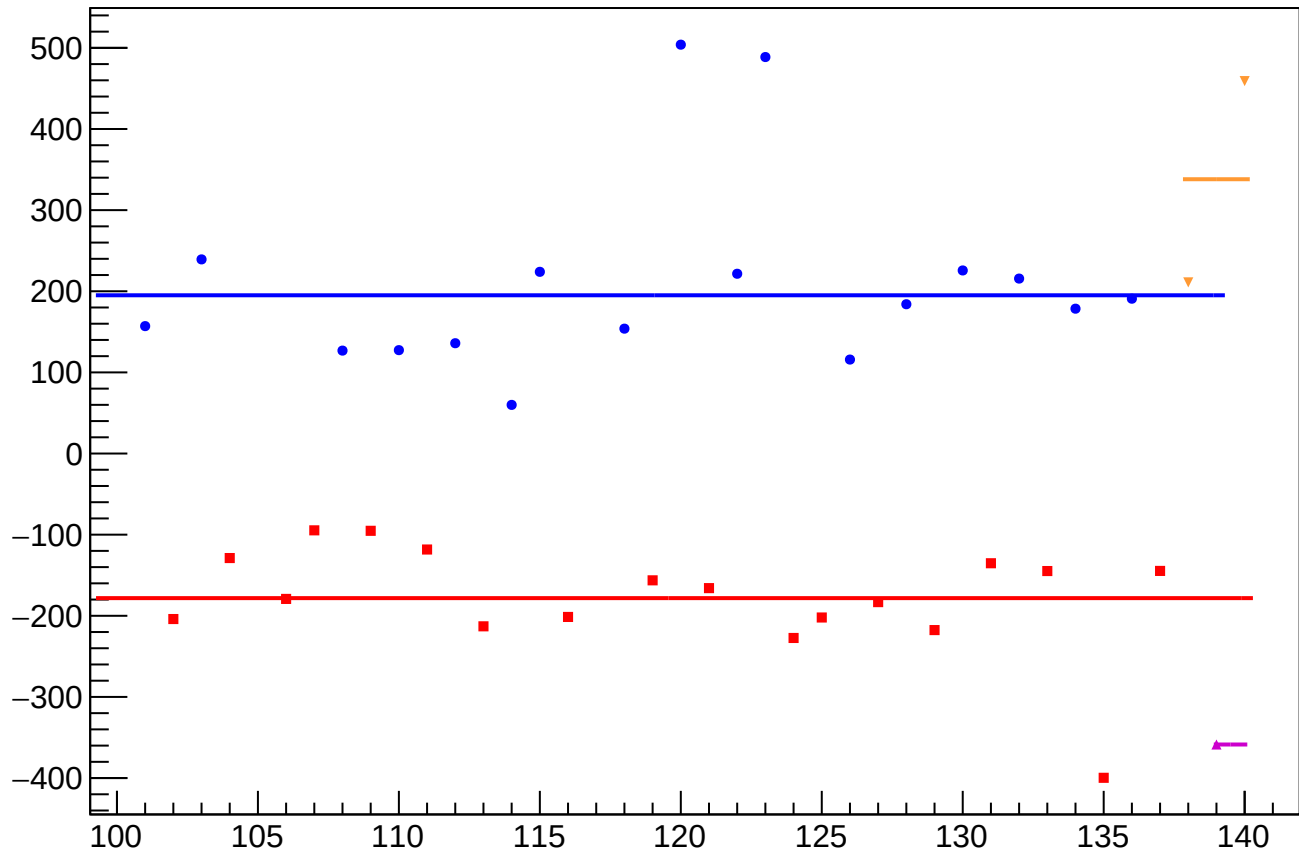
Out: -358.106+/-0.000

$\chi^2/\text{NDF}$ : 123650438563628

All: -80.043+/-0.000

$\chi^2/\text{NDF}$ : 239566631849

# dit\_sam5\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 195.049 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 5080024494184824251769530857650388992.0/16

Left Out: 338.086 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 2460203472966800573162920928323043328.0/1

Right Out: -178.222 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 3636798558444840391154572885518974976.0/17

Left In: -358.642 $\pm$ 0.000

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

Left: 103.916 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2856466653657100

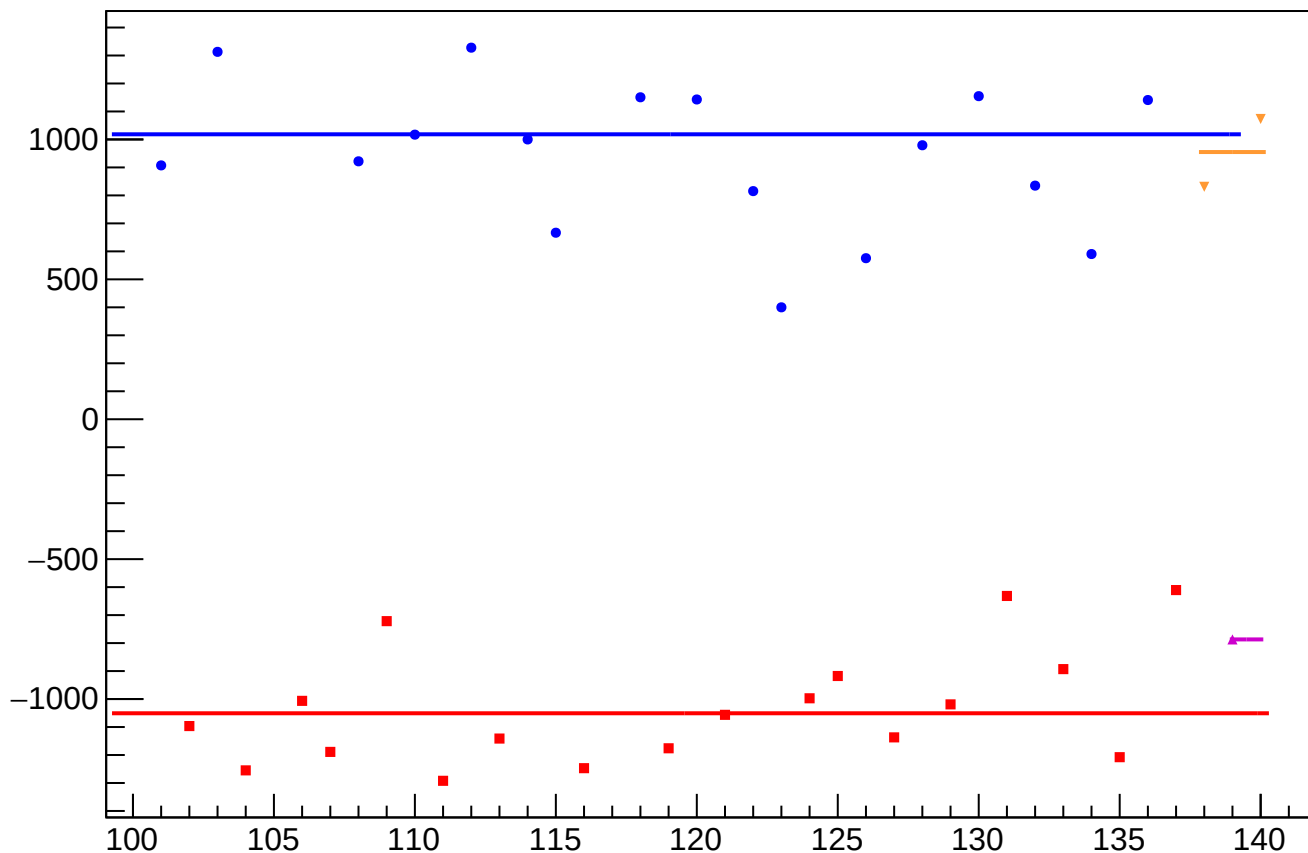
Right: 5.632 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 57785326932435193

In: 137.179 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 27317119834488019

Out: -83.811 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 4094963075484778

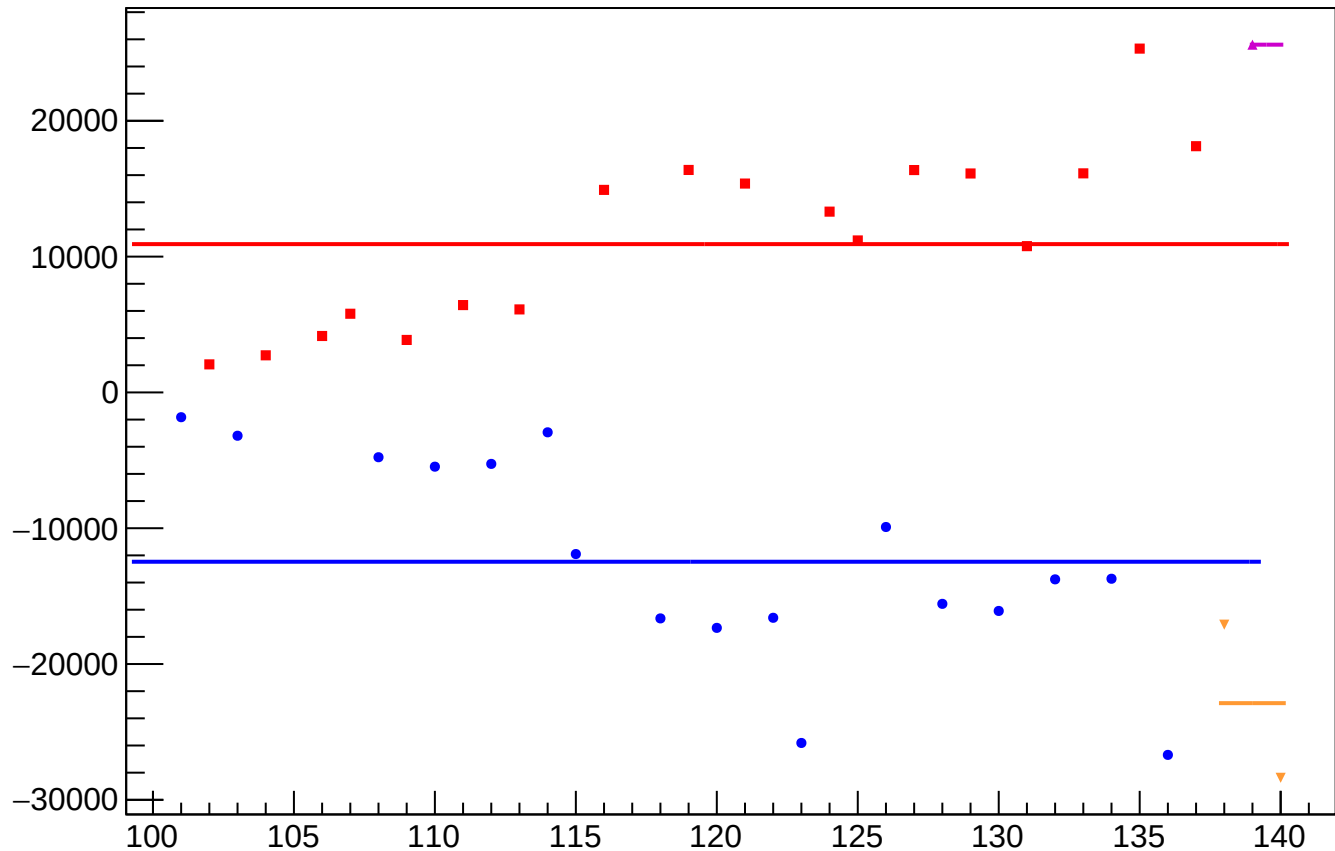
All: 19.987 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 8833796483179

dit\_sam5\_coil1\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                         |
|------------------------------|-------------------------------------------------------------------|------------------------|-----------------------------------------|
| Right In: 1018.403+/-0.000   | $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16 | Left: 369.552+/-0.000  | $\chi^2/\text{NDF}$ : 1655145661457498  |
| Left Out: 955.000+/-0.000    | $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1   | Right: -31.639+/-0.000 | $\chi^2/\text{NDF}$ : 156759750862946   |
| Right Out: -1050.842+/-0.000 | $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17 | In: 829.721+/-0.000    | $\chi^2/\text{NDF}$ : 26917343462376107 |
| Left In: -786.889+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -684.059+/-0.000  | $\chi^2/\text{NDF}$ : 555278016412223   |
|                              |                                                                   | All: 26.959+/-0.000    | $\chi^2/\text{NDF}$ : 1766236409525     |

# dit\_sam6\_coil1\_mean vs Slug, Sign Corrected



Right In: -12468.200+/-0.000

Left Out: -22880.928+/-0.000

Right Out: 10920.089+/-0.000

Left In: 25606.916+/-0.000

$\chi^2/\text{NDF}$ : 41947810781860597740124287766684235726848.0/16

$\chi^2/\text{NDF}$ : 5082728981967863397045856230077213179904.0/1

$\chi^2/\text{NDF}$ : 32165705228240657588124121675327793528832.0/17

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

Left: -6584.184+/-0.000  $\chi^2/\text{NDF}$ : 13151376620764

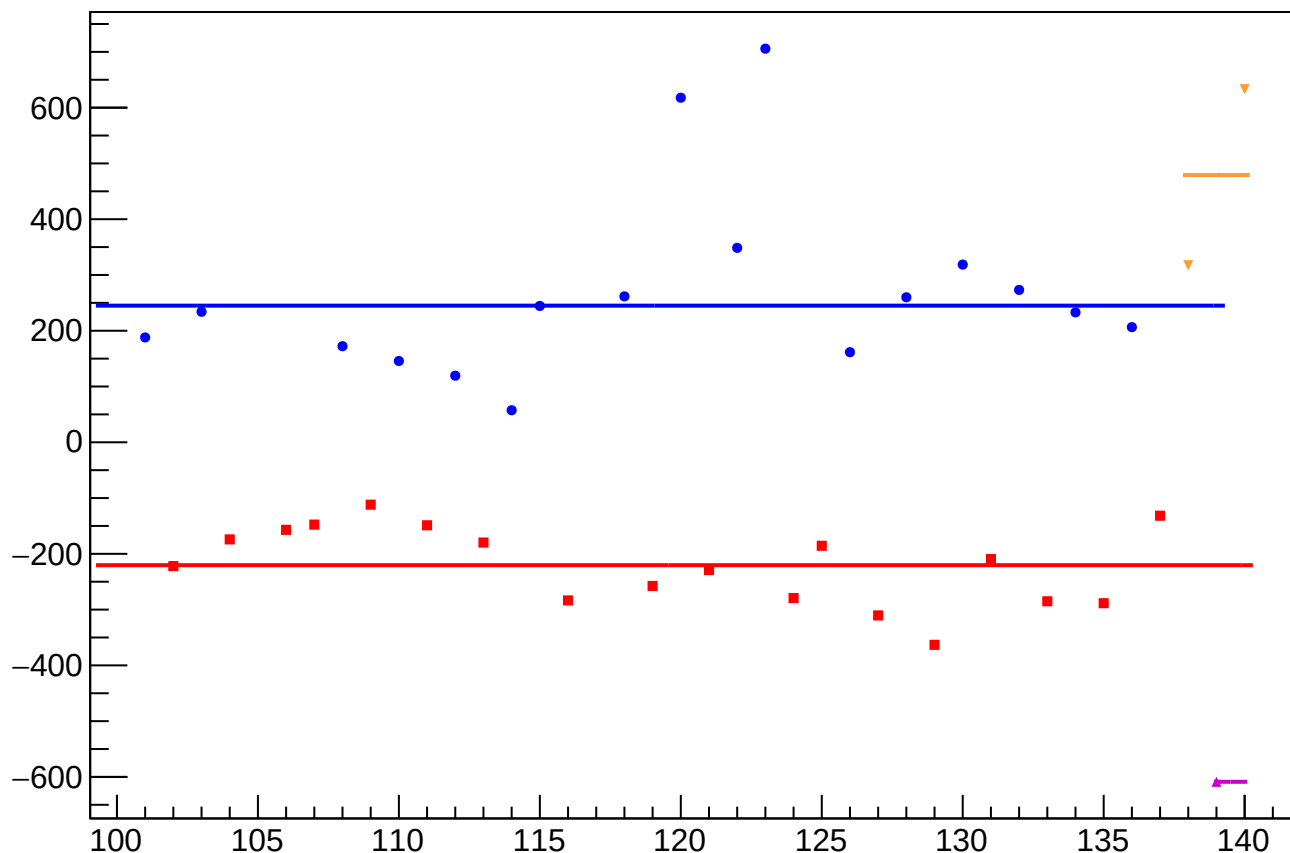
Right: -599.764+/-0.000  $\chi^2/\text{NDF}$ : 26675570352748

In: -8488.736+/-0.000  $\chi^2/\text{NDF}$ : 147101676784109

Out: 4739.331+/-0.000  $\chi^2/\text{NDF}$ : 186623289702507

All: -1473.852+/-0.000  $\chi^2/\text{NDF}$ : 4056398217

dit\_sam6\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 244.994+/-0.000  $\chi^2/\text{NDF}$ : 8873183370170999334634045001787506688.0/16

Left Out: 479.221+/-0.000  $\chi^2/\text{NDF}$ : 3980876285019858042110380926505582592.0/1

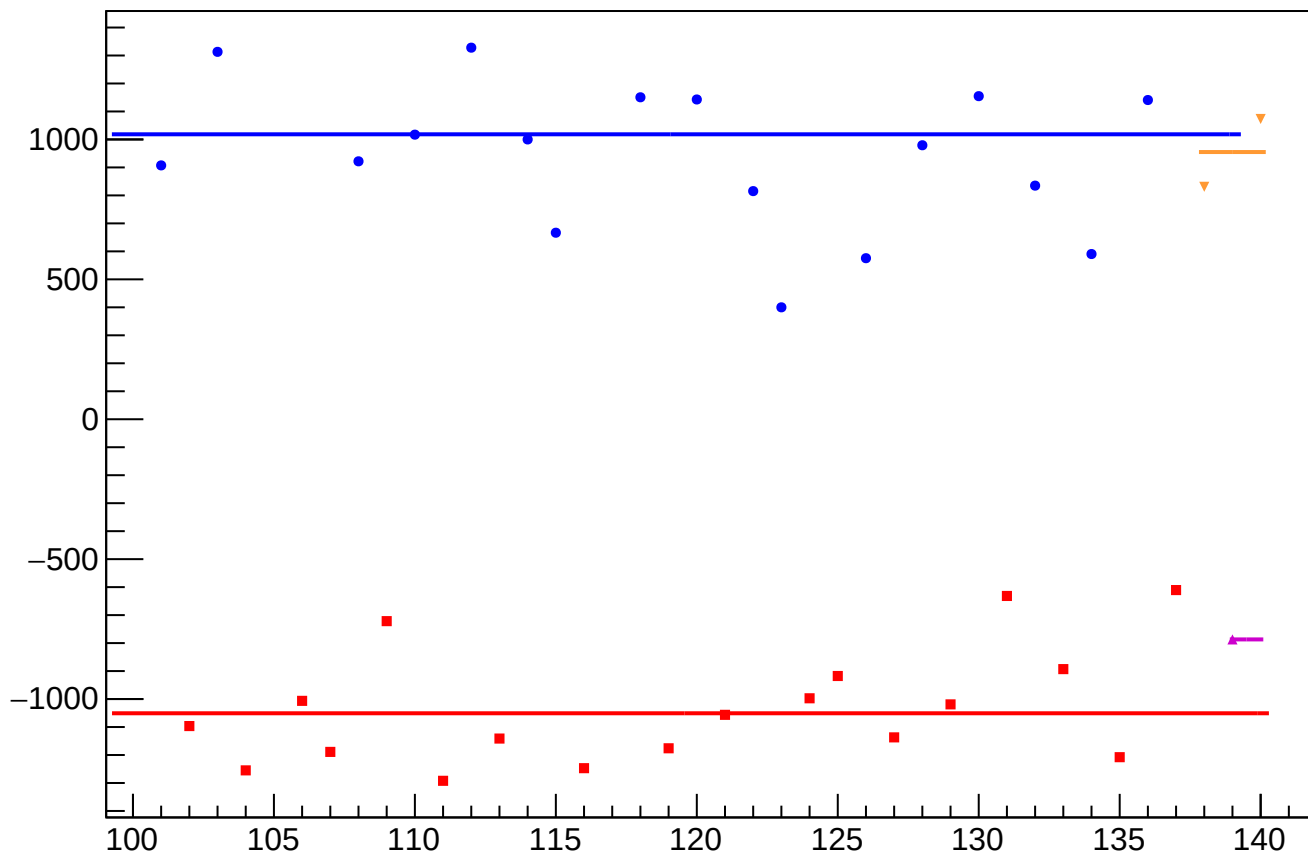
Right Out: -220.353+/-0.000  $\chi^2/\text{NDF}$ : 3356691284213126680510243475038404608.0/17

Left In: -608.749+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.146+/-0.000  $\chi^2/\text{NDF}$ : 1583825332172

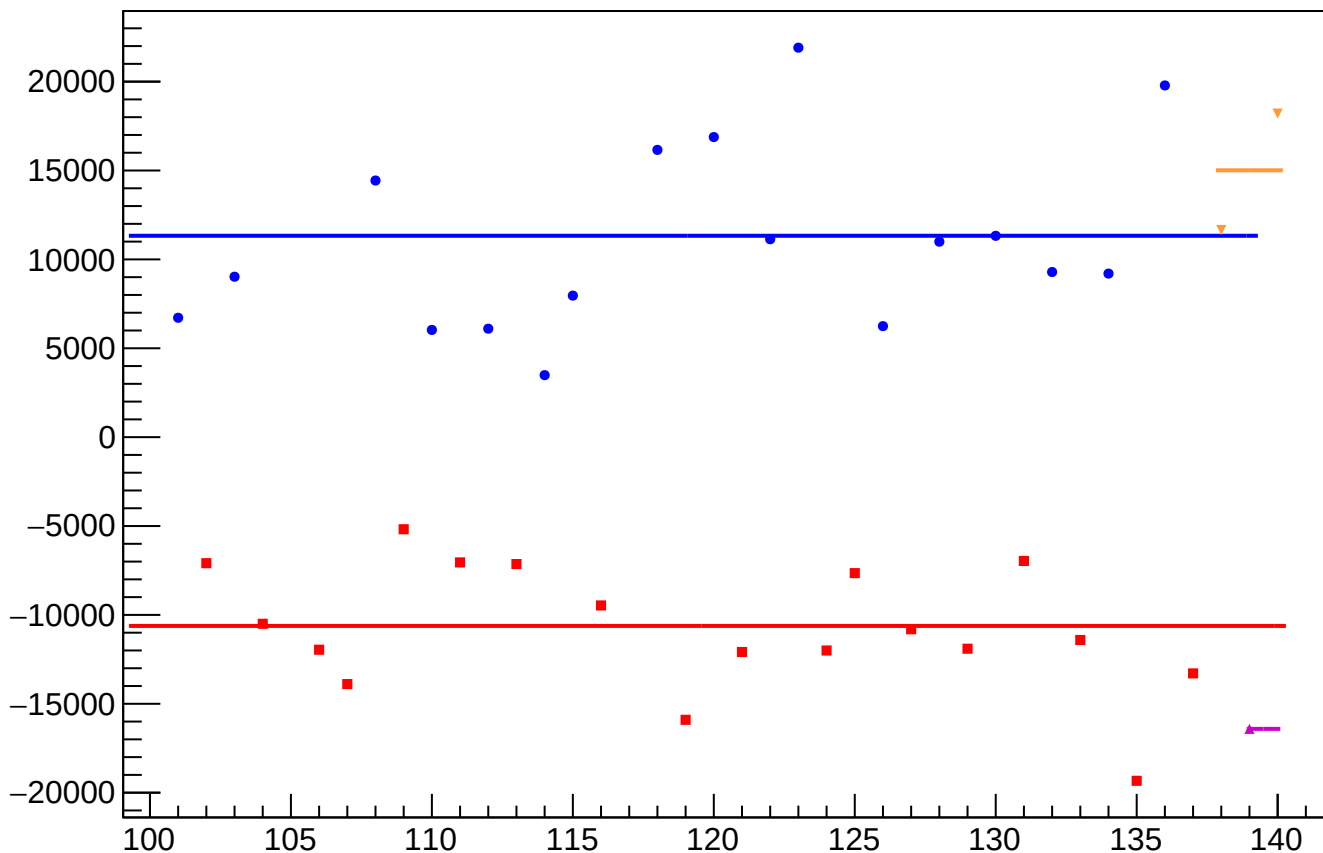


dit\_sam6\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403 $\pm$ 0.000  $\chi^2$ /NDF: 32778661856751386998435413517146259456.0/16  
 Left Out: 955.000 $\pm$ 0.000  $\chi^2$ /NDF: 2348870544090060553701581628463120384.0/1  
 Right Out: -1050.842 $\pm$ 0.000  $\chi^2$ /NDF: 26898078099677260392287731084448235520.0/17  
 Left In: -786.889 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 26.959 $\pm$ 0.000  $\chi^2$ /NDF: 1766236409525

# dit\_sam7\_coil1\_mean vs Slug, Sign Corrected



Right In: 11329.210+/-0.000

$\chi^2/\text{NDF}$ : 15521857033868622025770129635391850938368.0/16

Left Out: 15011.769+/-0.000

$\chi^2/\text{NDF}$ : 1713908587606332967163318391276123979776.0/1

Right Out: -10619.182+/-0.000

$\chi^2/\text{NDF}$ : 10071633014201515414626302207213810221056.0/17

Left In: -16410.195+/-0.000

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

Left: 4450.860+/-0.000  $\chi^2/\text{NDF}$ : 548090299364948

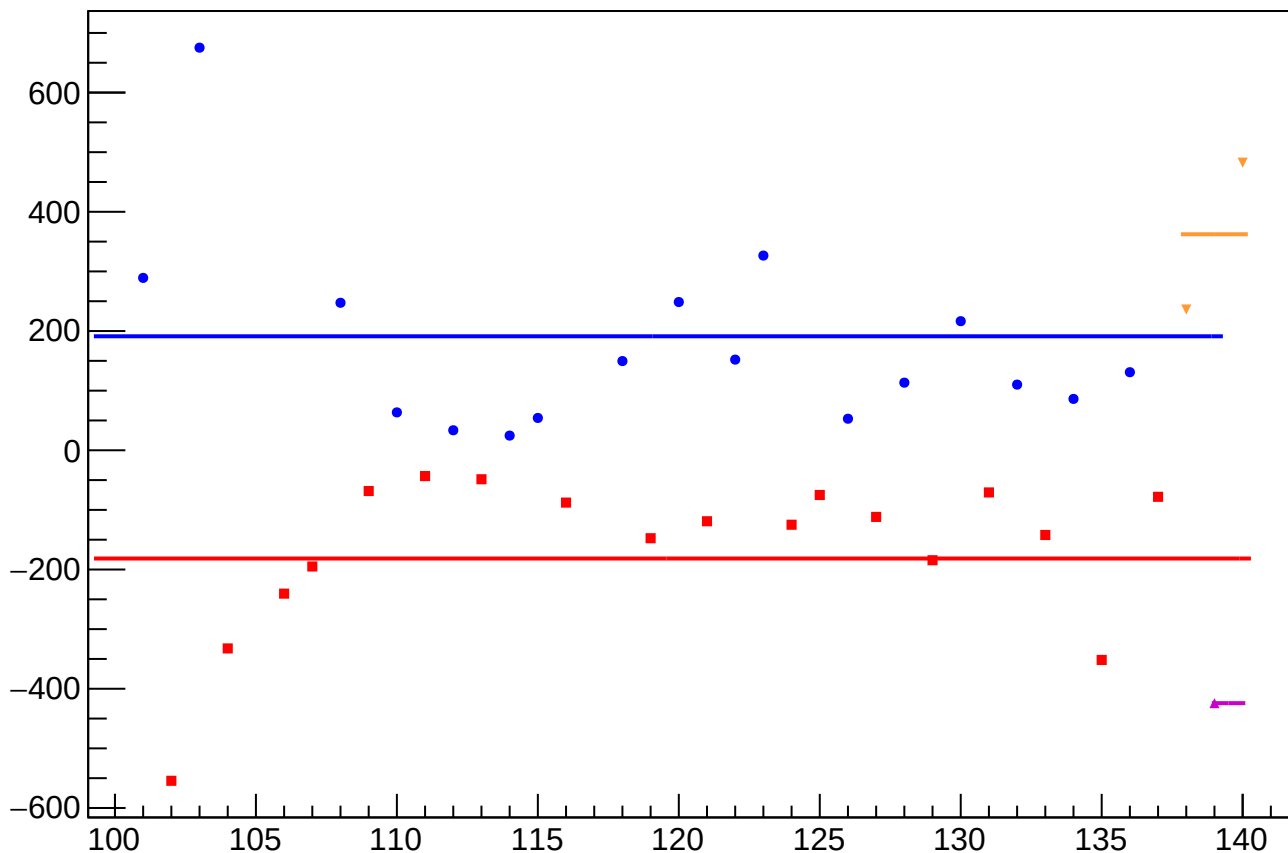
Right: 191.453+/-0.000  $\chi^2/\text{NDF}$ : 195245861840049

In: 8429.995+/-0.000  $\chi^2/\text{NDF}$ : 7133507977572325

Out: -5932.379+/-0.000  $\chi^2/\text{NDF}$ : 97676487559598

All: 813.585+/-0.000  $\chi^2/\text{NDF}$ : 253788616400

# dit\_sam7\_coil1\_err\_mean vs Slug, Sign Corrected



Right In: 191.191+/-0.000

$\chi^2/\text{NDF}$ : 19183697593820495387775377202474909696.0/16

Left Out: 362.325+/-0.000

$\chi^2/\text{NDF}$ : 2425357260993122946571322549635907584.0/1

Right Out: -181.551+/-0.000

$\chi^2/\text{NDF}$ : 14852803264995019247576775913608577024.0/17

Left In: -424.150+/-0.000

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

Left: 97.991+/-0.000  $\chi^2/\text{NDF}$ : 35688067160948987

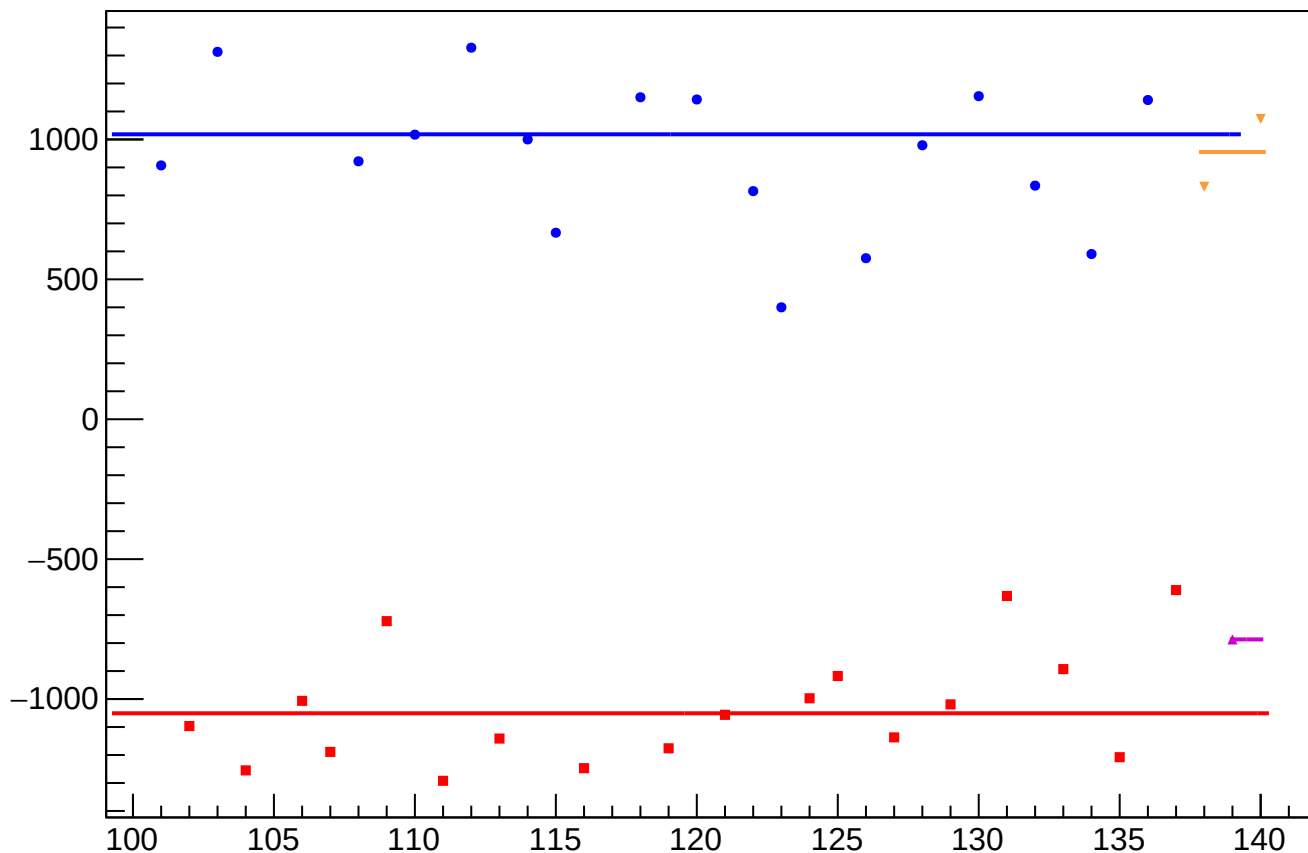
Right: 2.042+/-0.000  $\chi^2/\text{NDF}$ : 82966073462266070

In: 126.878+/-0.000  $\chi^2/\text{NDF}$ : 46648383496333712

Out: -82.099+/-0.000  $\chi^2/\text{NDF}$ : 5595201959576947

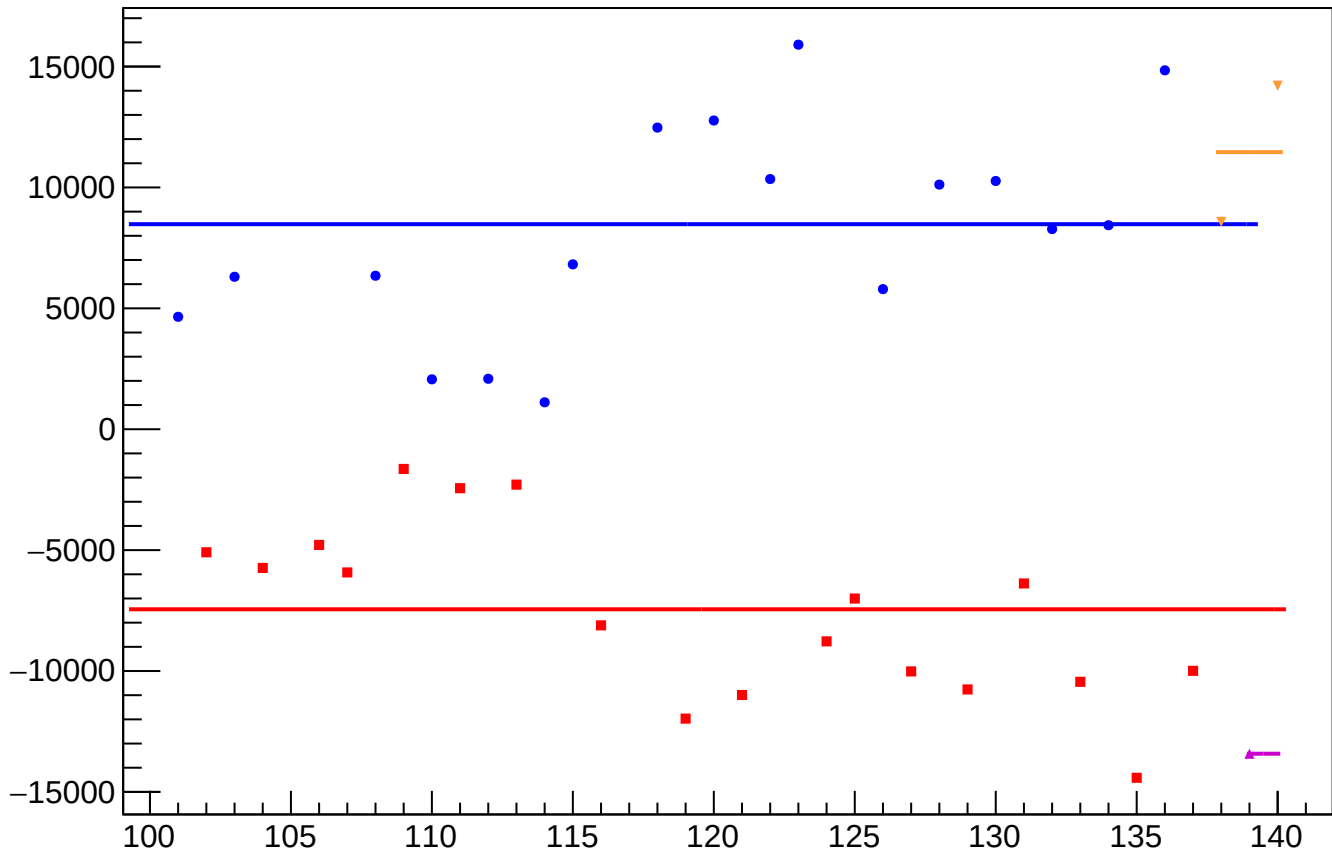
All: 16.057+/-0.000  $\chi^2/\text{NDF}$ : 1205487586709

dit\_sam7\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000  $\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16  
 Left: 369.552+/-0.000  $\chi^2/\text{NDF}$ : 1655145661457498  
 Left Out: 955.000+/-0.000  $\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1  
 Right: -31.639+/-0.000  $\chi^2/\text{NDF}$ : 156759750862946  
 In: 829.721+/-0.000  $\chi^2/\text{NDF}$ : 26917343462376107  
 Right Out: -1050.842+/-0.000  $\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17  
 Out: -684.059+/-0.000  $\chi^2/\text{NDF}$ : 555278016412223  
 Left In: -786.889+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.959+/-0.000  $\chi^2/\text{NDF}$ : 1766236409525

# dit\_sam8\_coil1\_mean vs Slug, Sign Corrected



Right In: 8480.889+/-0.000

$\chi^2/\text{NDF}$ : 11499484754166446401410720405854359650304.0/16

Left Out: 11461.562+/-0.000

$\chi^2/\text{NDF}$ : 1267755965689435629555609119485518151680.0/1

Right Out: -7447.217+/-0.000

$\chi^2/\text{NDF}$ : 10045808642952263494281474112188504342528.0/17

Left In: -13420.932+/-0.000

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

Left: 3098.566+/-0.000

$\chi^2/\text{NDF}$ : 345625064893848

Right: 398.138+/-0.000

$\chi^2/\text{NDF}$ : 110892866685720

In: 6191.795+/-0.000

$\chi^2/\text{NDF}$ : 4629339355737842

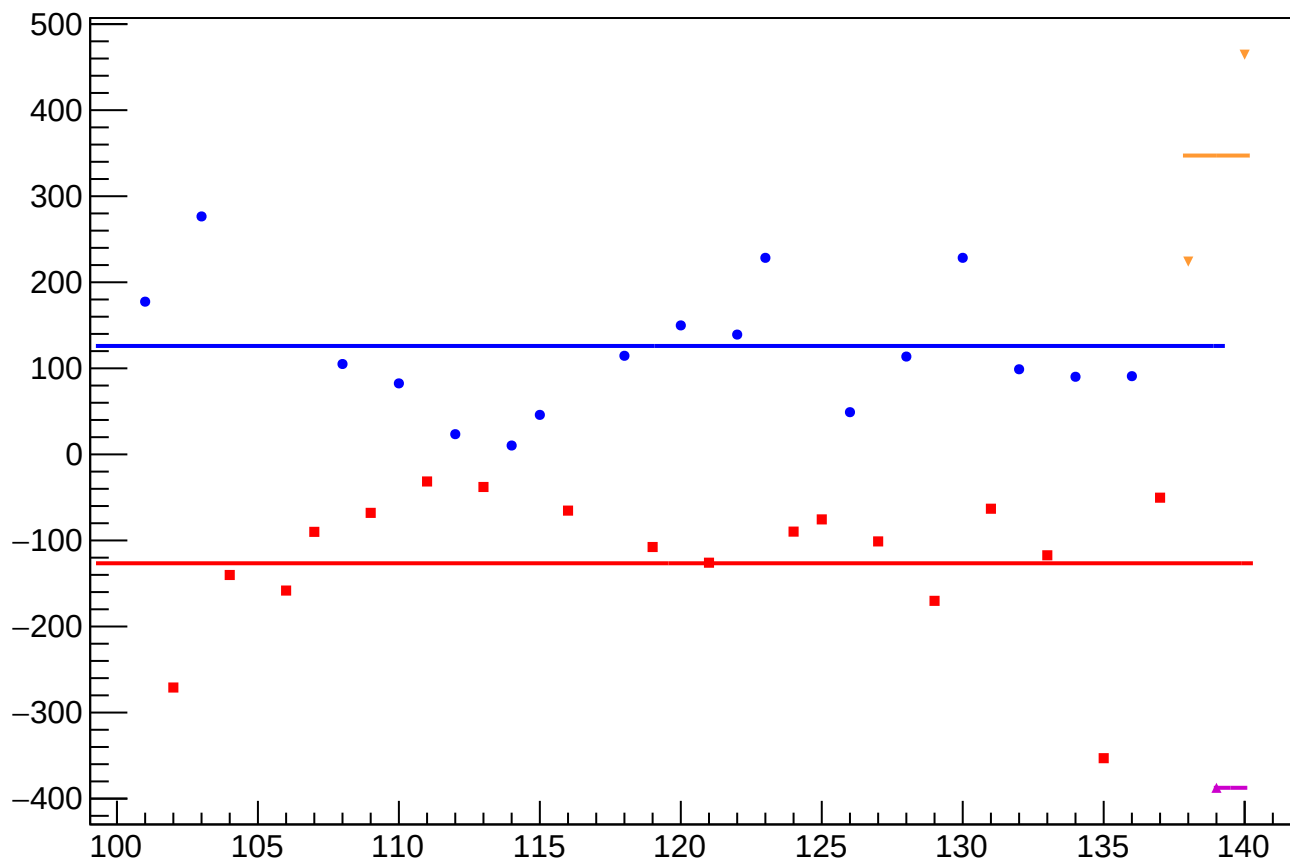
Out: -3989.611+/-0.000

$\chi^2/\text{NDF}$ : 58059614936103

All: 792.565+/-0.000

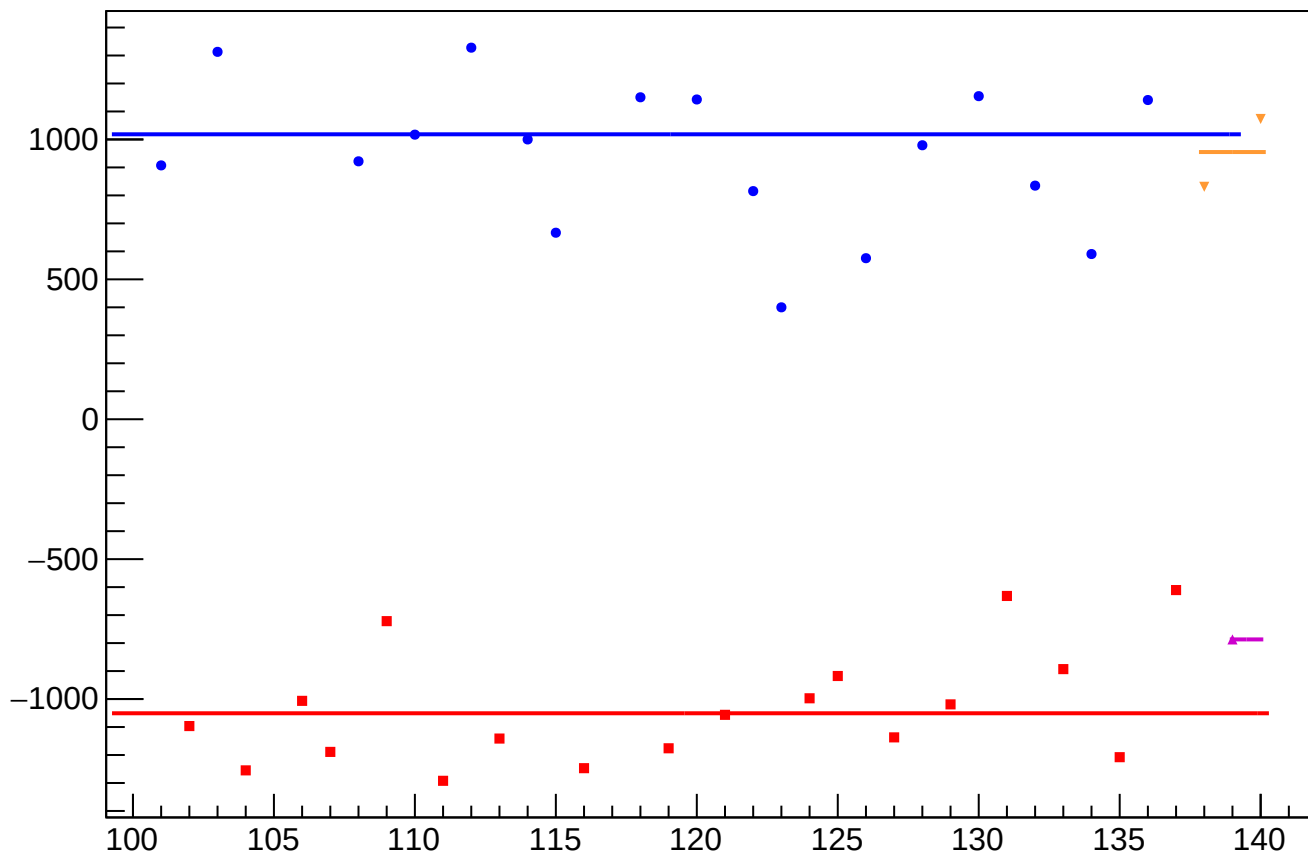
$\chi^2/\text{NDF}$ : 146956126167

dit\_sam8\_coil1\_err\_mean vs Slug, Sign Corrected



|                             |                                                                  |                       |                                          |
|-----------------------------|------------------------------------------------------------------|-----------------------|------------------------------------------|
| Right In: 126.005+/-0.000   | $\chi^2/\text{NDF}$ : 3386025781144831306970150054630785024.0/16 | Left: 100.337+/-0.000 | $\chi^2/\text{NDF}$ : 3133800874095071   |
| Left Out: 347.268+/-0.000   | $\chi^2/\text{NDF}$ : 2311088782527746041720615077526110208.0/1  | Right: -2.140+/-0.000 | $\chi^2/\text{NDF}$ : 3113547860834995   |
| Right Out: -126.521+/-0.000 | $\chi^2/\text{NDF}$ : 5291778643595712336156745298356469760.0/17 | In: 72.343+/-0.000    | $\chi^2/\text{NDF}$ : 225068567352721814 |
| Left In: -387.426+/-0.000   | $\chi^2/\text{NDF}$ : 0.0/0                                      | Out: -39.885+/-0.000  | $\chi^2/\text{NDF}$ : 3695144888675182   |
|                             |                                                                  | All: 12.828+/-0.000   | $\chi^2/\text{NDF}$ : 6463471115655      |

dit\_sam8\_coil1\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1018.403+/-0.000

$\chi^2/\text{NDF}$ : 32778661856751386998435413517146259456.0/16

Left Out: 955.000+/-0.000

$\chi^2/\text{NDF}$ : 2348870544090060553701581628463120384.0/1

Right Out: -1050.842+/-0.000

$\chi^2/\text{NDF}$ : 26898078099677260392287731084448235520.0/17

Left In: -786.889+/-0.000

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

In: 829.721+/-0.000

$\chi^2/\text{NDF}$ : 26917343462376107

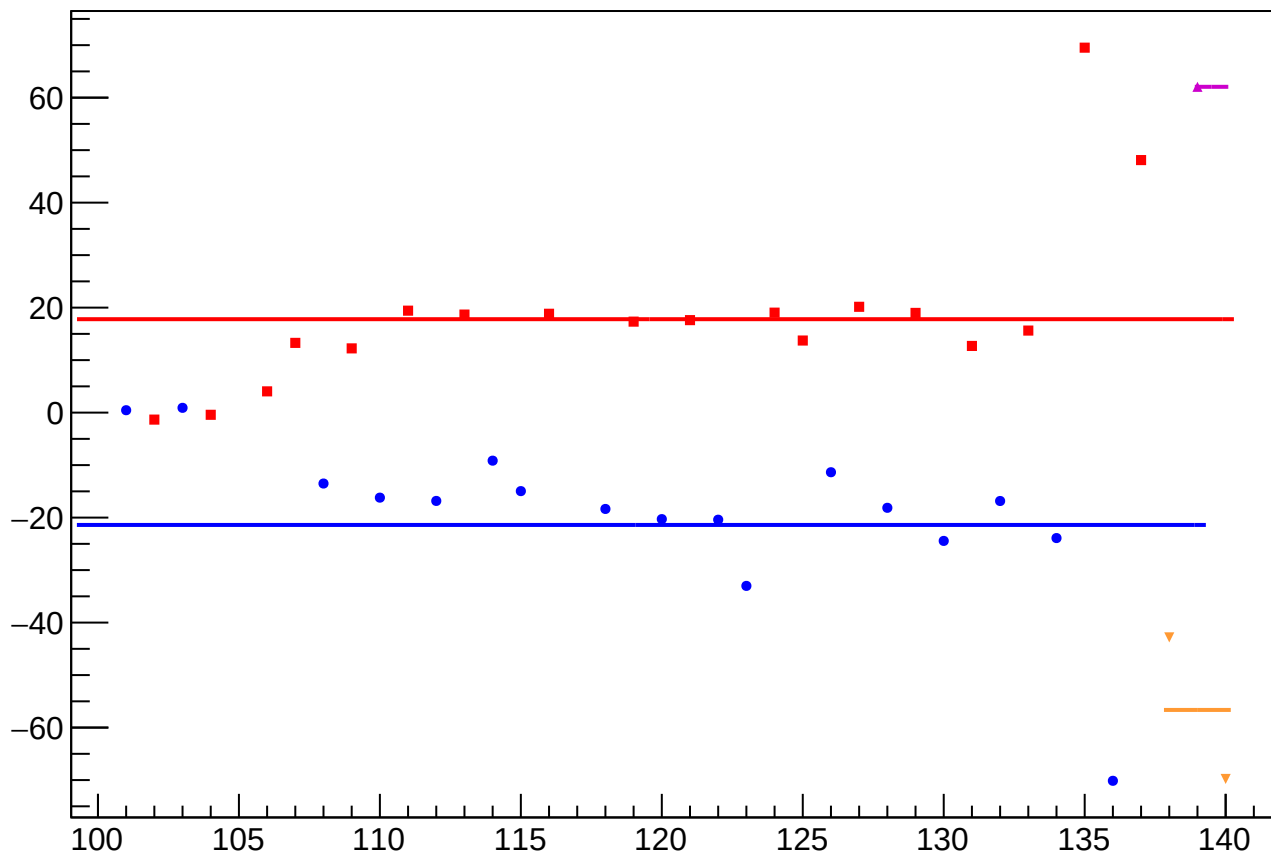
Out: -684.059+/-0.000

$\chi^2/\text{NDF}$ : 555278016412223

All: 26.959+/-0.000

$\chi^2/\text{NDF}$ : 1766236409525

# dit\_4aX\_coil3\_mean vs Slug, Sign Corrected



Right In: -21.398+/-0.000

Left Out: -56.639+/-0.000

Right Out: 17.797+/-0.000

Left In: 62.066+/-0.000

$\chi^2/\text{NDF}$ : 280536163120367747156314867523125248.0/16

$\chi^2/\text{NDF}$ : 29071837835175780136950814885281792.0/1

$\chi^2/\text{NDF}$ : 194445073804421906744756784211165184.0/17

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

Left: -16.743+/-0.000  $\chi^2/\text{NDF}$ : 7868198046446737

Right: -1.508+/-0.000  $\chi^2/\text{NDF}$ : 1016004524366776

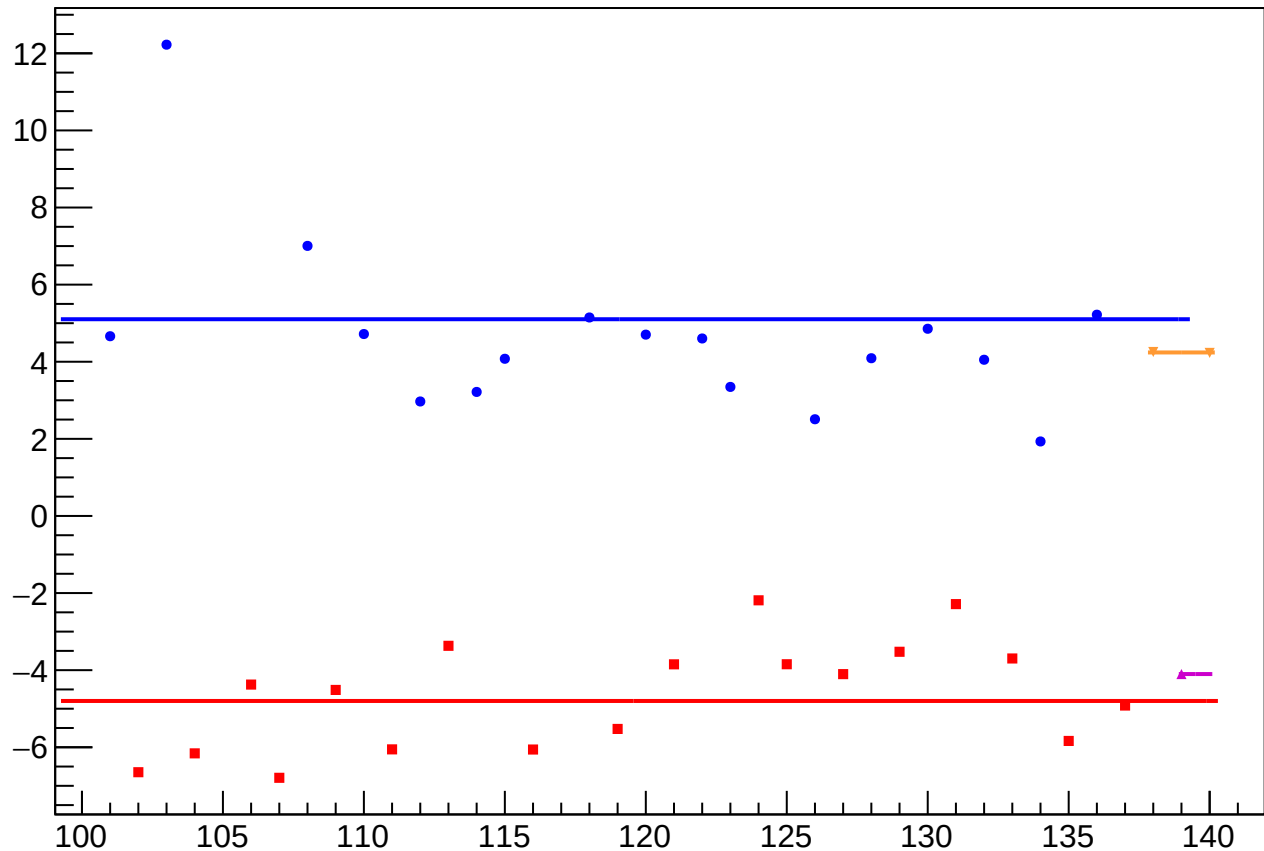
In: -12.675+/-0.000  $\chi^2/\text{NDF}$ : 78582024473706055

Out: 4.186+/-0.000  $\chi^2/\text{NDF}$ : 947933510690957735

All: -3.733+/-0.000  $\chi^2/\text{NDF}$ : 1850587122296



# dit\_4aX\_coil3\_err\_mean vs Slug, Sign Corrected



Left: 1.437 +/- 0.000  $\chi^2/\text{NDF}$ : 37418451563677318

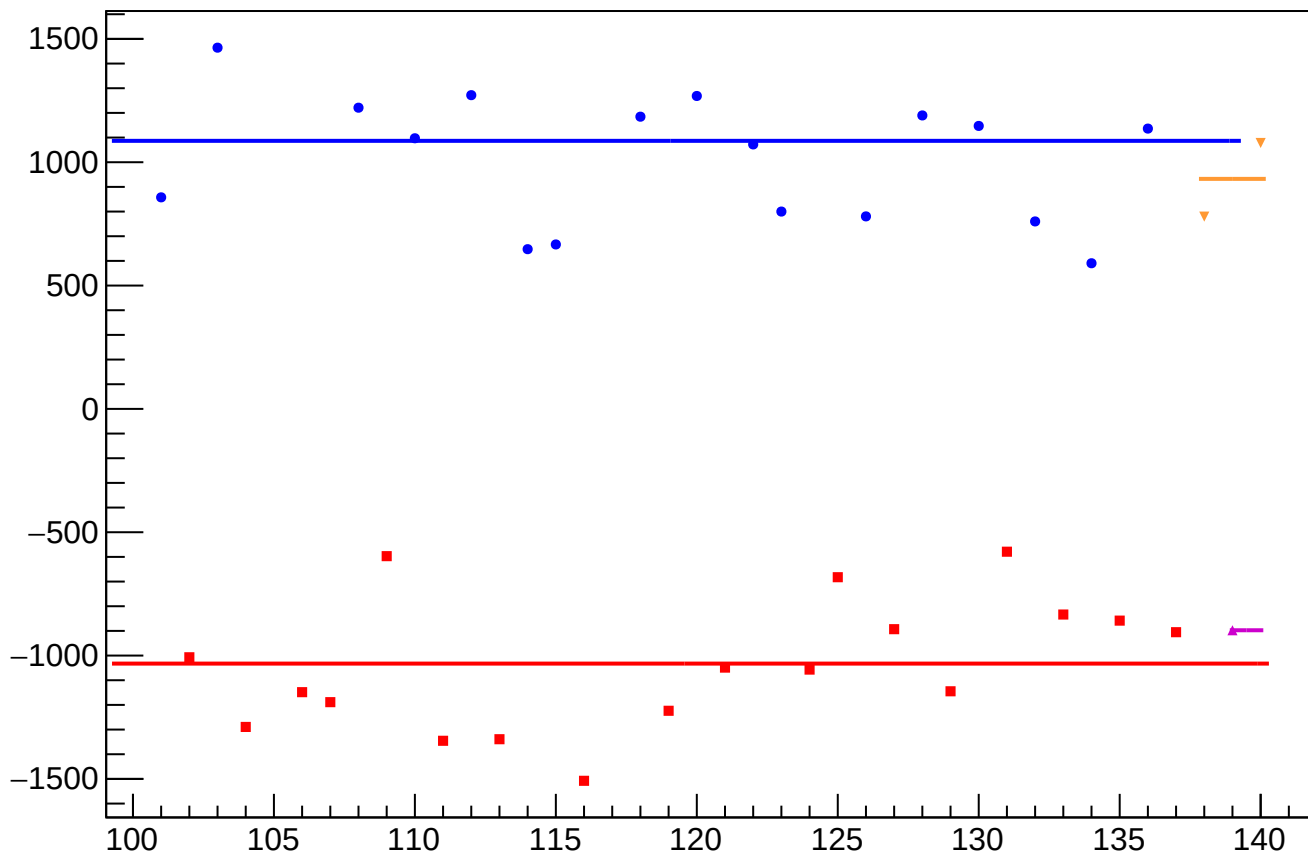
Right: 0.078 +/- 0.000  $\chi^2/\text{NDF}$ : 39847627667928998

In: 4.141 +/- 0.000  $\chi^2/\text{NDF}$ : 1019219025139573917

Out: -3.146 +/- 0.000  $\chi^2/\text{NDF}$ : 11955889388931158

All: 0.277 +/- 0.000  $\chi^2/\text{NDF}$ : 43969662040822

dit\_4aX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

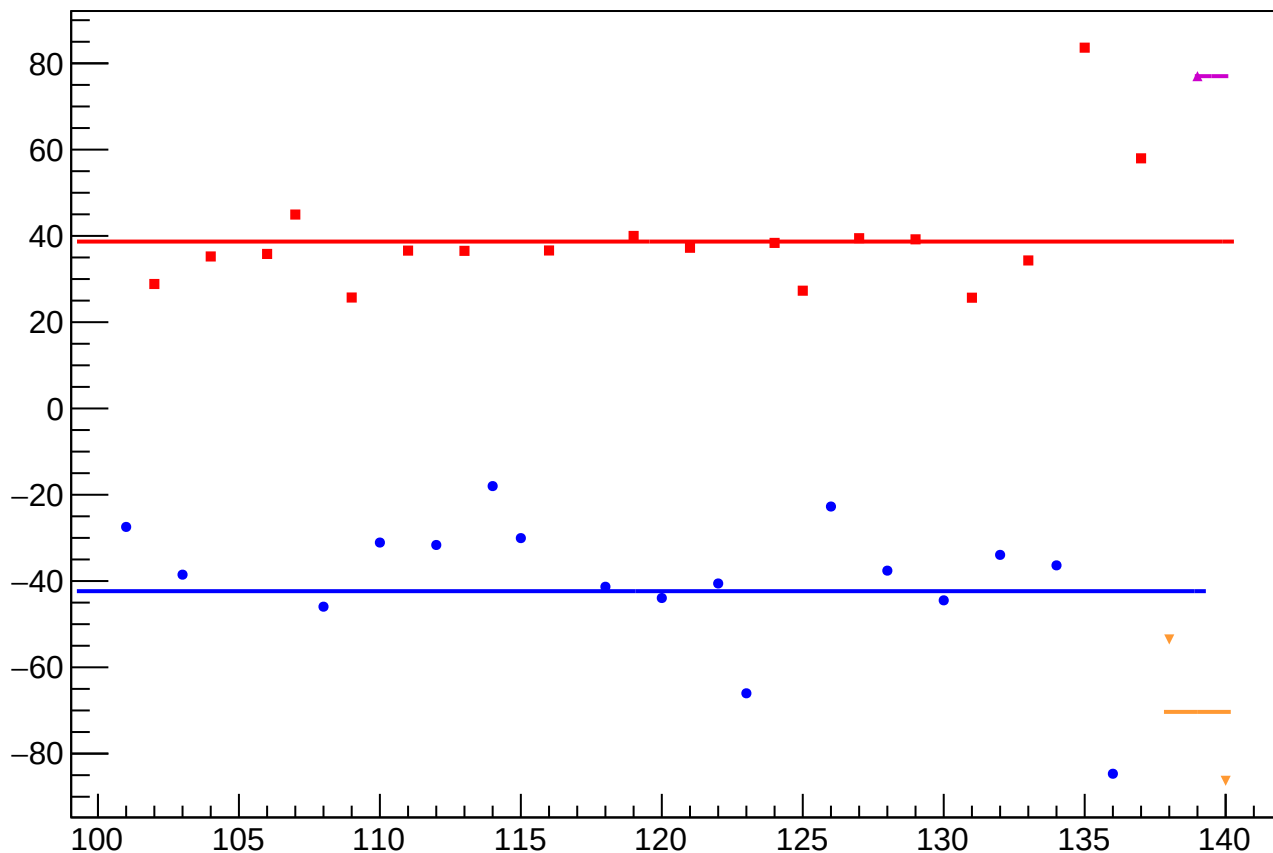
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_4eX\_coil3\_mean vs Slug, Sign Corrected



Right In: -42.348+/-0.000

Left Out: -70.331+/-0.000

Right Out: 38.687+/-0.000

Left In: 77.028+/-0.000

$\chi^2/\text{NDF}$ : 214487265312366042421757259213176832.0/16

$\chi^2/\text{NDF}$ : 42913923603672433714475113430122496.0/1

$\chi^2/\text{NDF}$ : 132884782523479402209438367825788928.0/17

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

Left: -20.804+/-0.000  $\chi^2/\text{NDF}$ : 1210636752814069

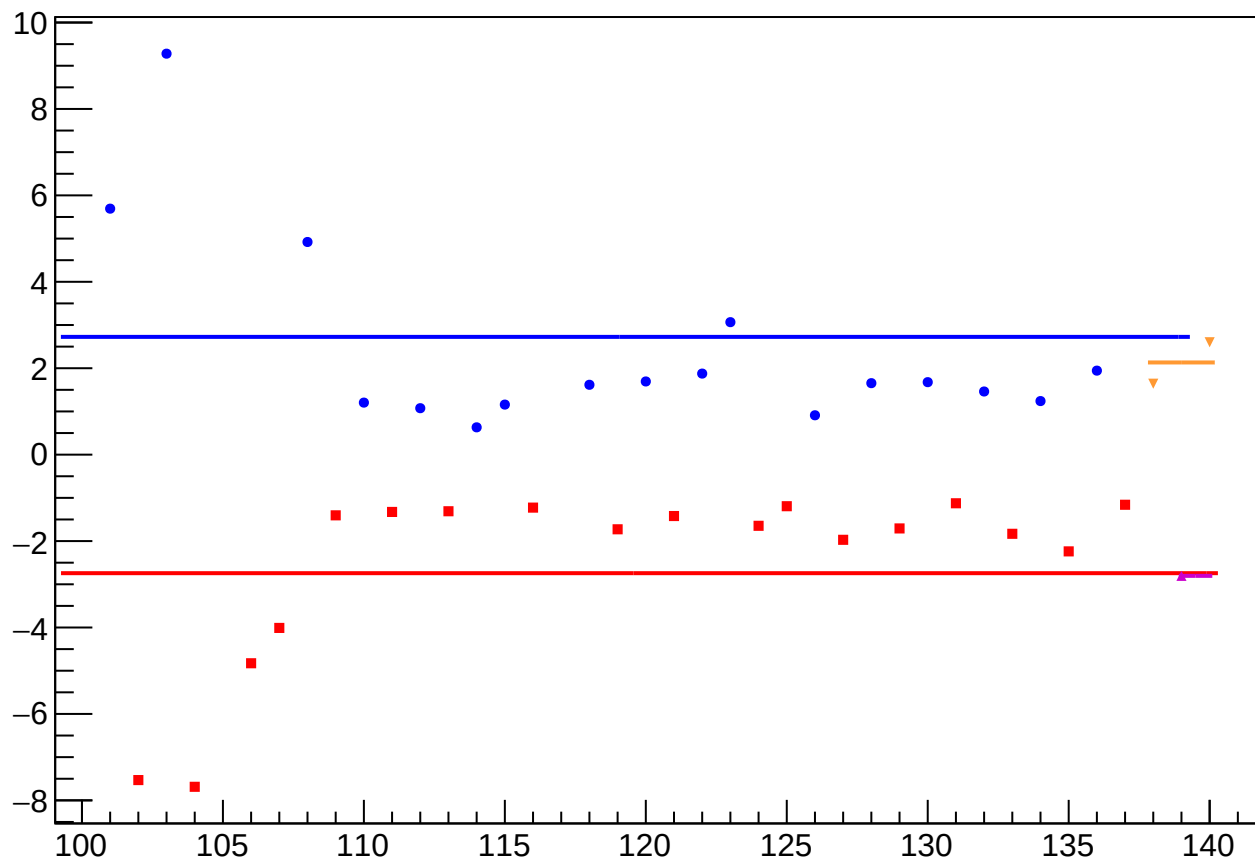
Right: -1.226+/-0.000  $\chi^2/\text{NDF}$ : 2659977091062519

In: -29.871+/-0.000  $\chi^2/\text{NDF}$ : 12481404688711128

Out: 18.753+/-0.000  $\chi^2/\text{NDF}$ : 17296725250901210

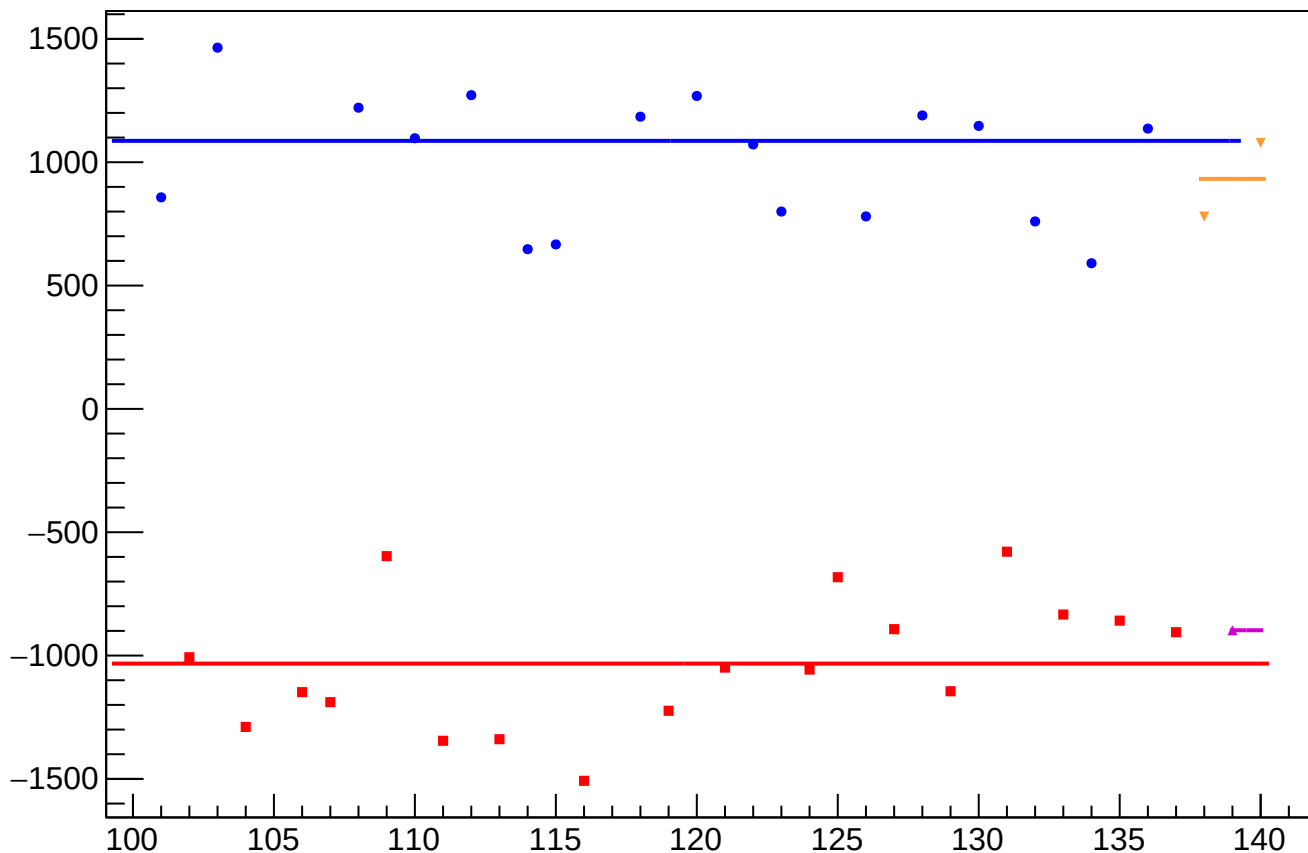
All: -4.086+/-0.000  $\chi^2/\text{NDF}$ : 3949490407213

dit\_4eX\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 2.726+/-0.000  $\chi^2/\text{NDF}$ : 4086214221048218627232910568062976.0/16  
 Left Out: 2.133+/-0.000  $\chi^2/\text{NDF}$ : 36785939748319608052650468179968.0/1  
 Right Out: -2.743+/-0.000  $\chi^2/\text{NDF}$ : 3588318821230369709737363581698048.0/17  
 Left In: -2.805+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 19609890235934

dit\_4eX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

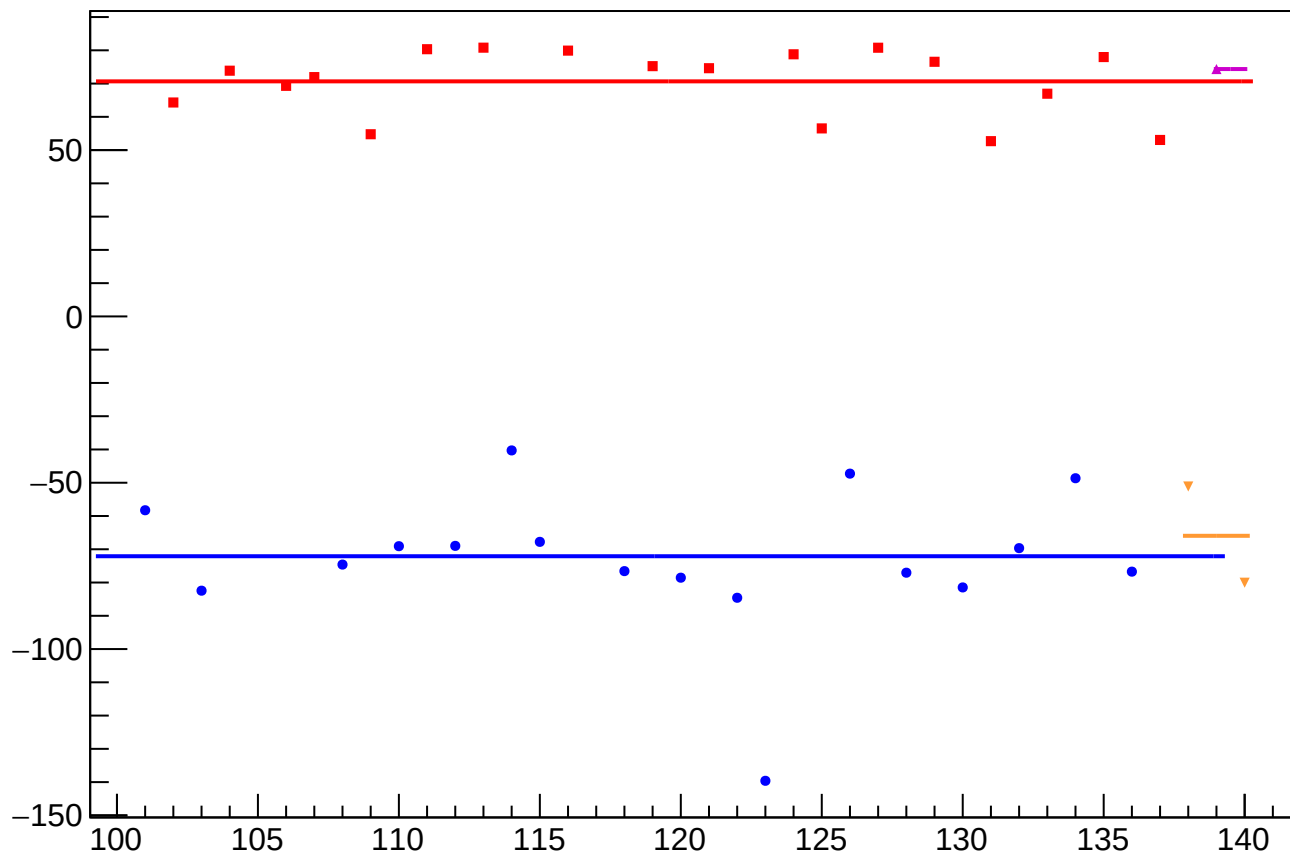
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

dit\_11X12X\_coil3\_mean vs Slug, Sign Corrected



Right In: -72.094+/-0.000

$\chi^2/\text{NDF}$ : 103075229118962583323813478911705088.0/16

Left Out: -65.952+/-0.000

$\chi^2/\text{NDF}$ : 33447153485957283876055458565324800.0/1

Right Out: 70.666+/-0.000

$\chi^2/\text{NDF}$ : 63521582322355548765057214851317760.0/17

Left In: 74.367+/-0.000

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

Left: -18.791+/-0.000  $\chi^2/\text{NDF}$ : 1092268546548971

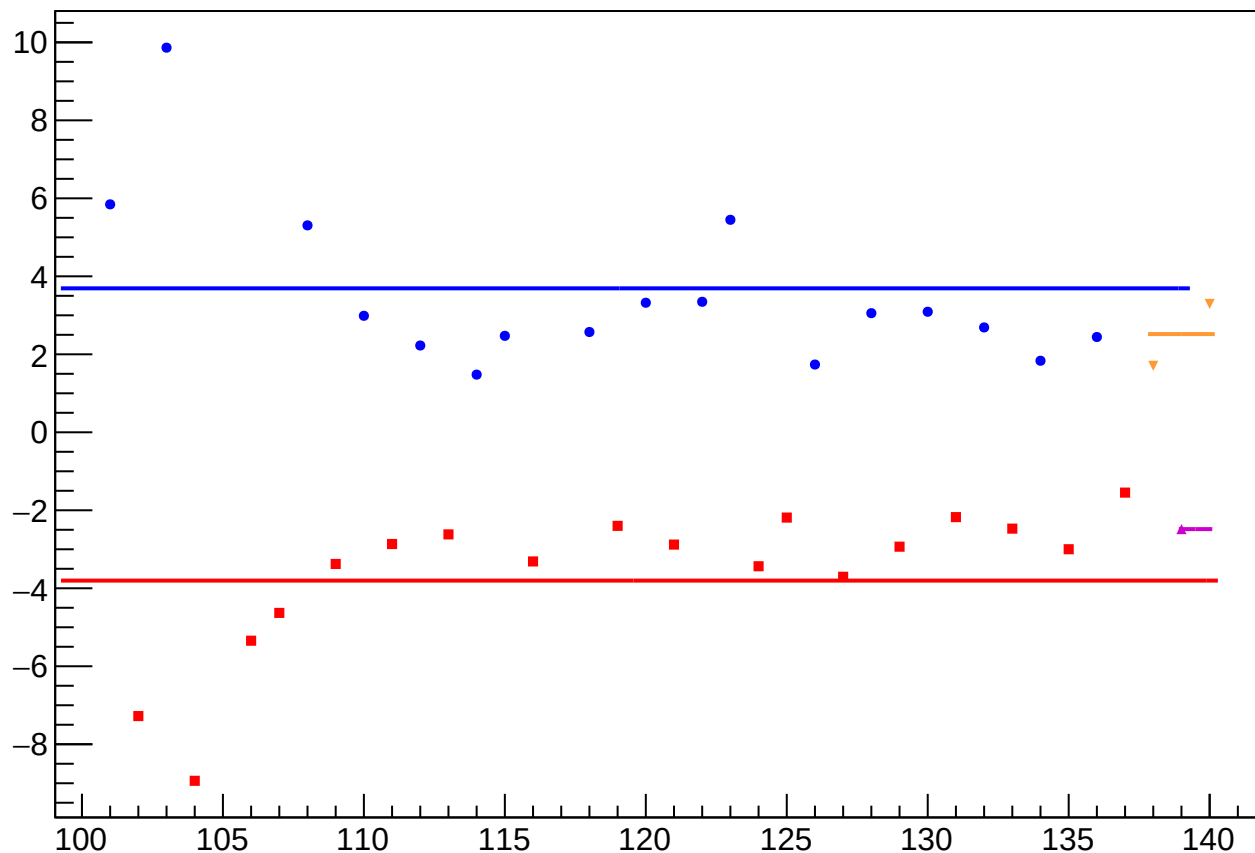
Right: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 73439703870243937

In: -56.786+/-0.000  $\chi^2/\text{NDF}$ : 16589944529631778

Out: 45.684+/-0.000  $\chi^2/\text{NDF}$ : 25372125776929276

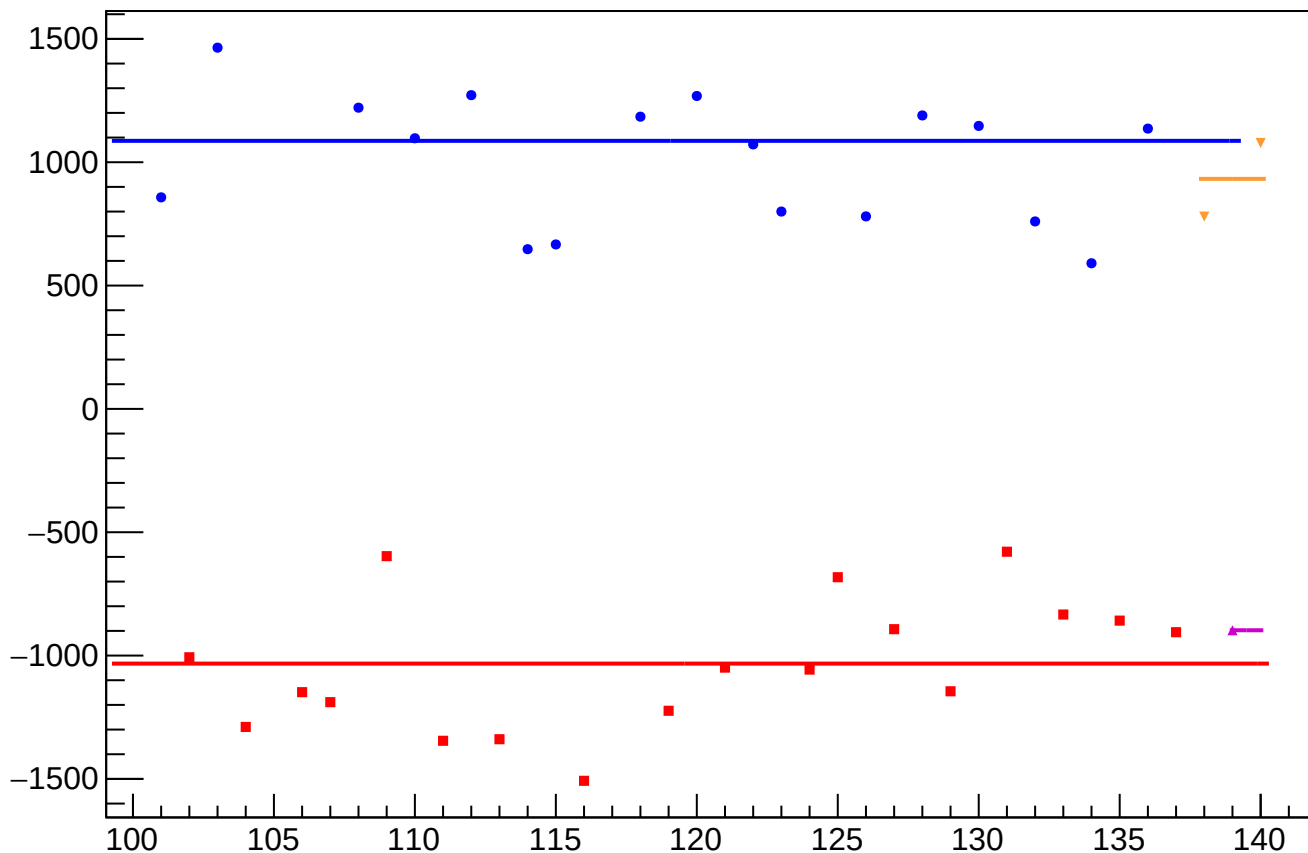
All: -2.446+/-0.000  $\chi^2/\text{NDF}$ : 8511636747988

dit\_11X12X\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 3.692+/-0.000  $\chi^2/\text{NDF}$ : 3355971788555014480502828790972416.0/16  
 Left Out: 2.519+/-0.000  $\chi^2/\text{NDF}$ : 100684132325522278269578880483328.0/1  
 Right Out: -3.803+/-0.000  $\chi^2/\text{NDF}$ : 2825063553426013260614294392799232.0/17  
 Left In: -2.483+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 27595969567690

dit\_11X12X\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

Out: -673.222+/-0.000

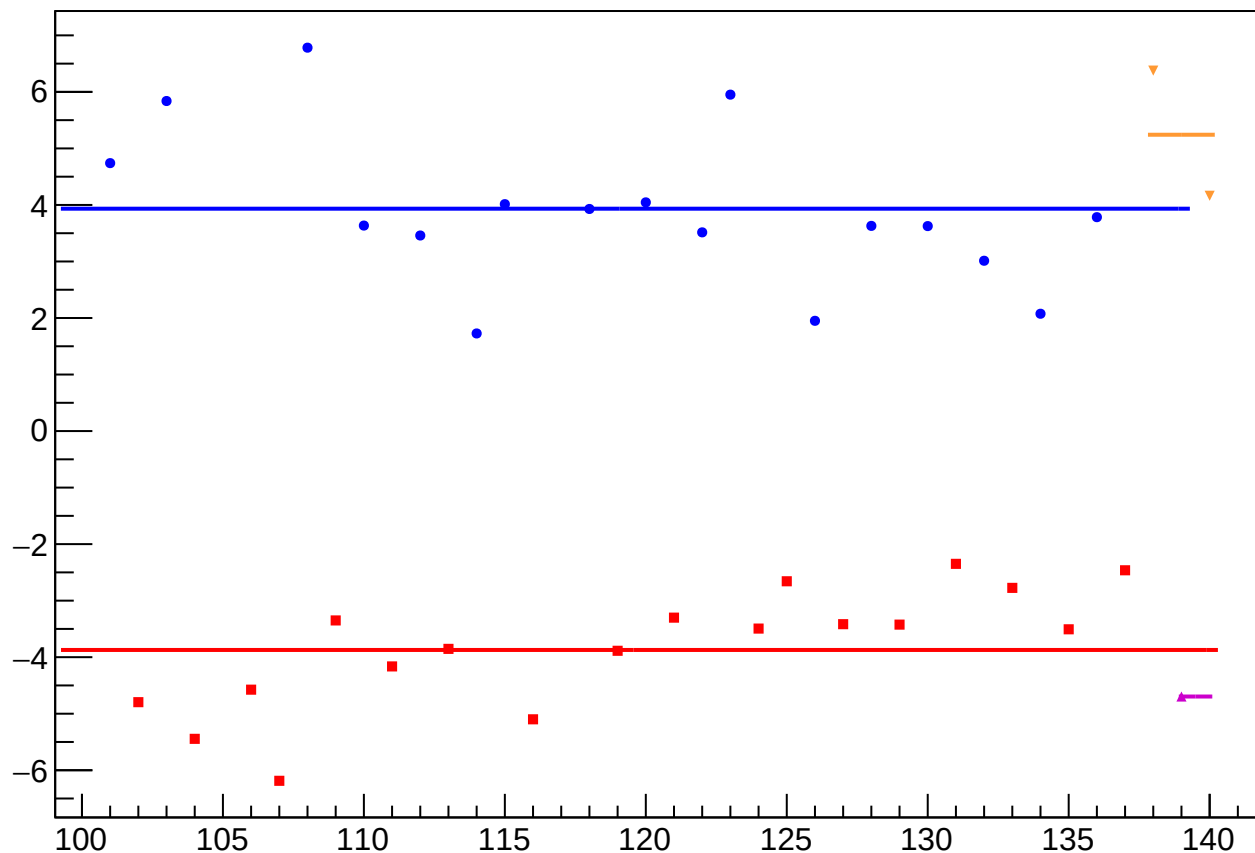
$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271



# dit\_4aY\_coil3\_mean vs Slug, Sign Corrected



Right In: 3.934 +/- 0.000  $\chi^2/\text{NDF}$ : 937288717449166058748009299050496.0/16

Left Out: 5.242 +/- 0.000  $\chi^2/\text{NDF}$ : 195914397919694009856298342940672.0/1

Right Out: -3.872 +/- 0.000  $\chi^2/\text{NDF}$ : 707048075514761321683781922324480.0/17

Left In: -4.696 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 1.902 +/- 0.000  $\chi^2/\text{NDF}$ : 550705697684441358

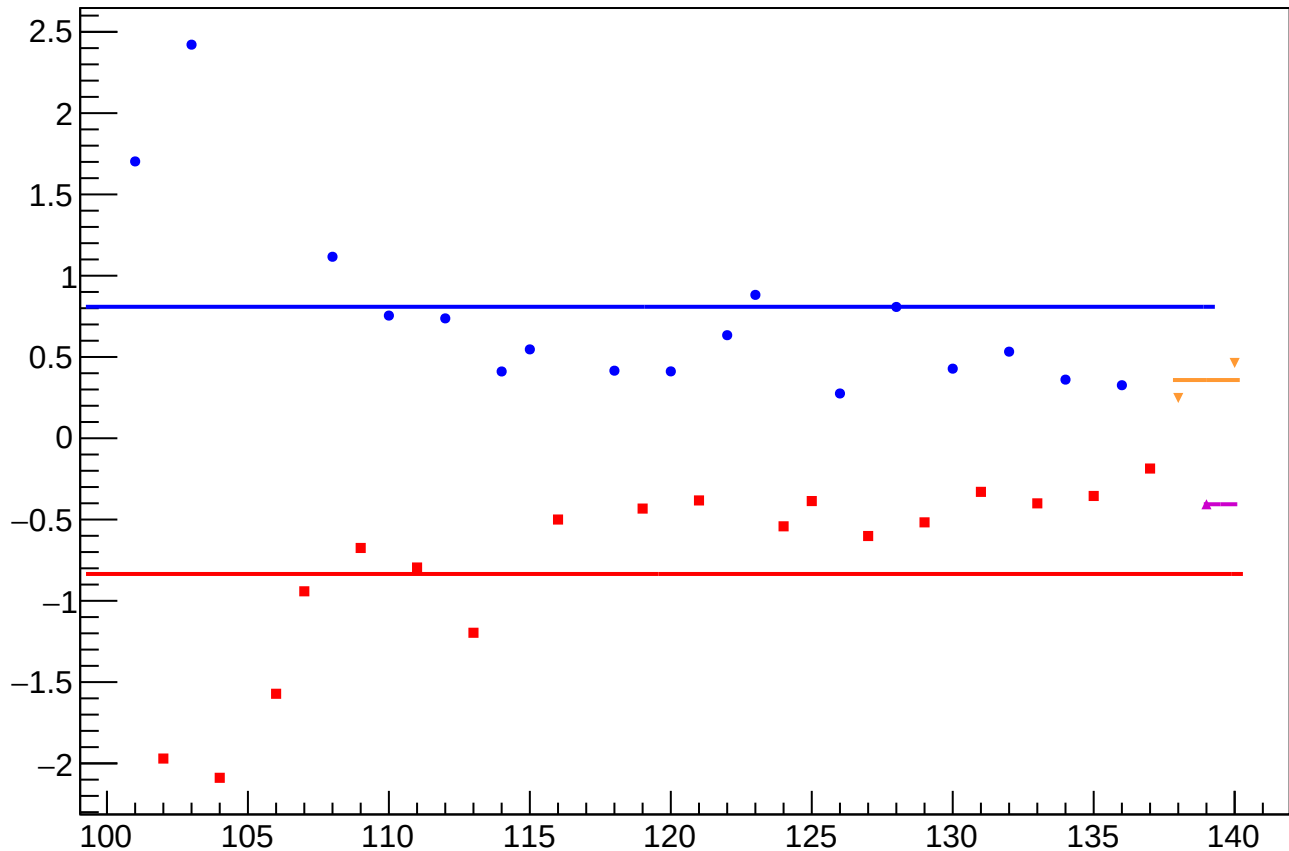
Right: -0.027 +/- 0.000  $\chi^2/\text{NDF}$ : 2310400987999599

In: 3.032 +/- 0.000  $\chi^2/\text{NDF}$ : 6339132119114218347

Out: -2.206 +/- 0.000  $\chi^2/\text{NDF}$ : 11763948556664972

All: 0.254 +/- 0.000  $\chi^2/\text{NDF}$ : 29377095844336

dit\_4aY\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 0.809+/-0.000

$\chi^2/\text{NDF}$ : 269169890346681229126320544284672.0/16

Left Out: 0.358+/-0.000

$\chi^2/\text{NDF}$ : 1855585538398803398311150616576.0/1

Right Out: -0.835+/-0.000

$\chi^2/\text{NDF}$ : 250373306610542576736300880101376.0/17

Left In: -0.406+/-0.000

$\chi^2/\text{NDF}$ : 0.2/0

Left: 0.101+/-0.000  $\chi^2/\text{NDF}$ : 33259478989958849

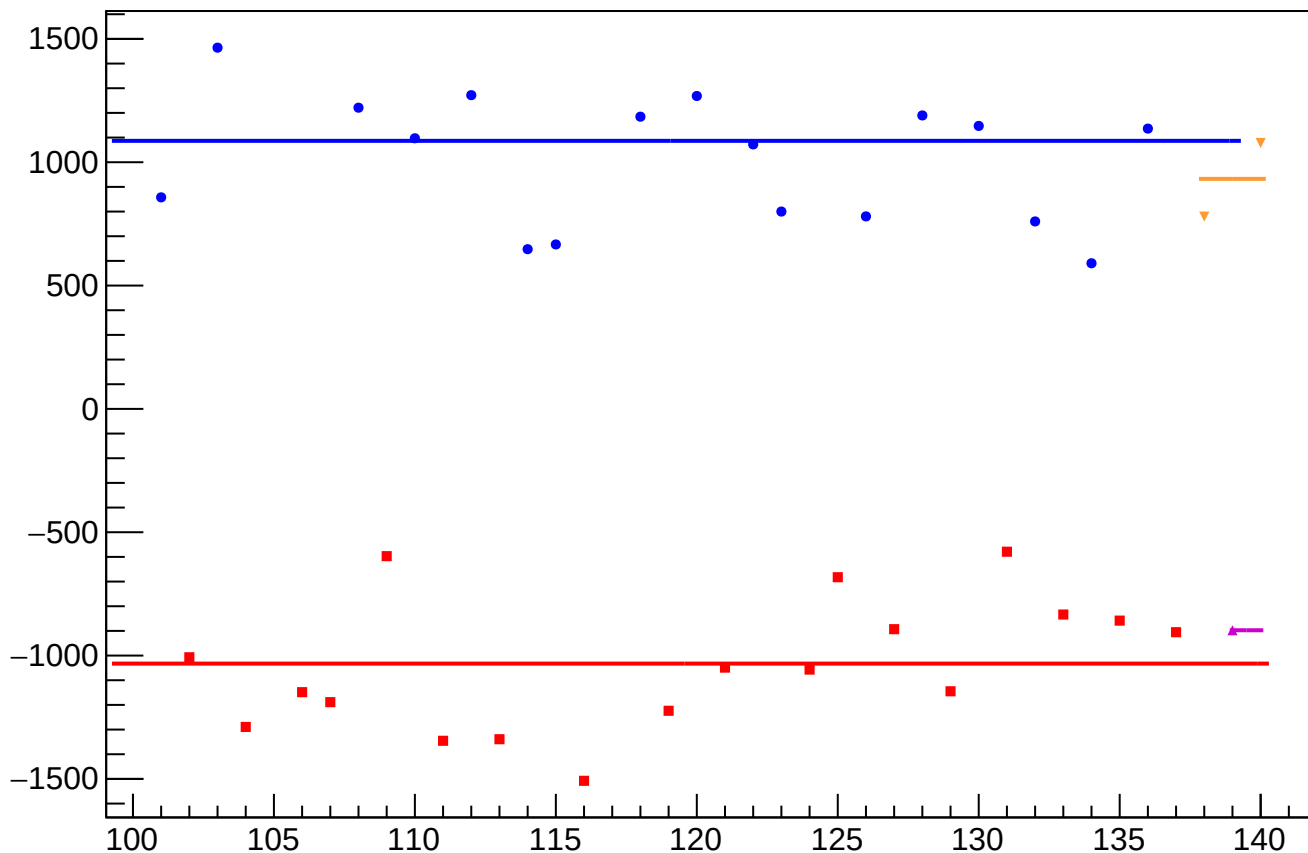
Right: -0.025+/-0.000  $\chi^2/\text{NDF}$ : 1470857188253285

In: 0.682+/-0.000  $\chi^2/\text{NDF}$ : 376198314236582832

Out: -0.617+/-0.000  $\chi^2/\text{NDF}$ : 43831314955904873

All: -0.007+/-0.000  $\chi^2/\text{NDF}$ : 1507417348556

dit\_4aY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407 $\pm$ 0.000

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

In: 879.324 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 32015532763453157

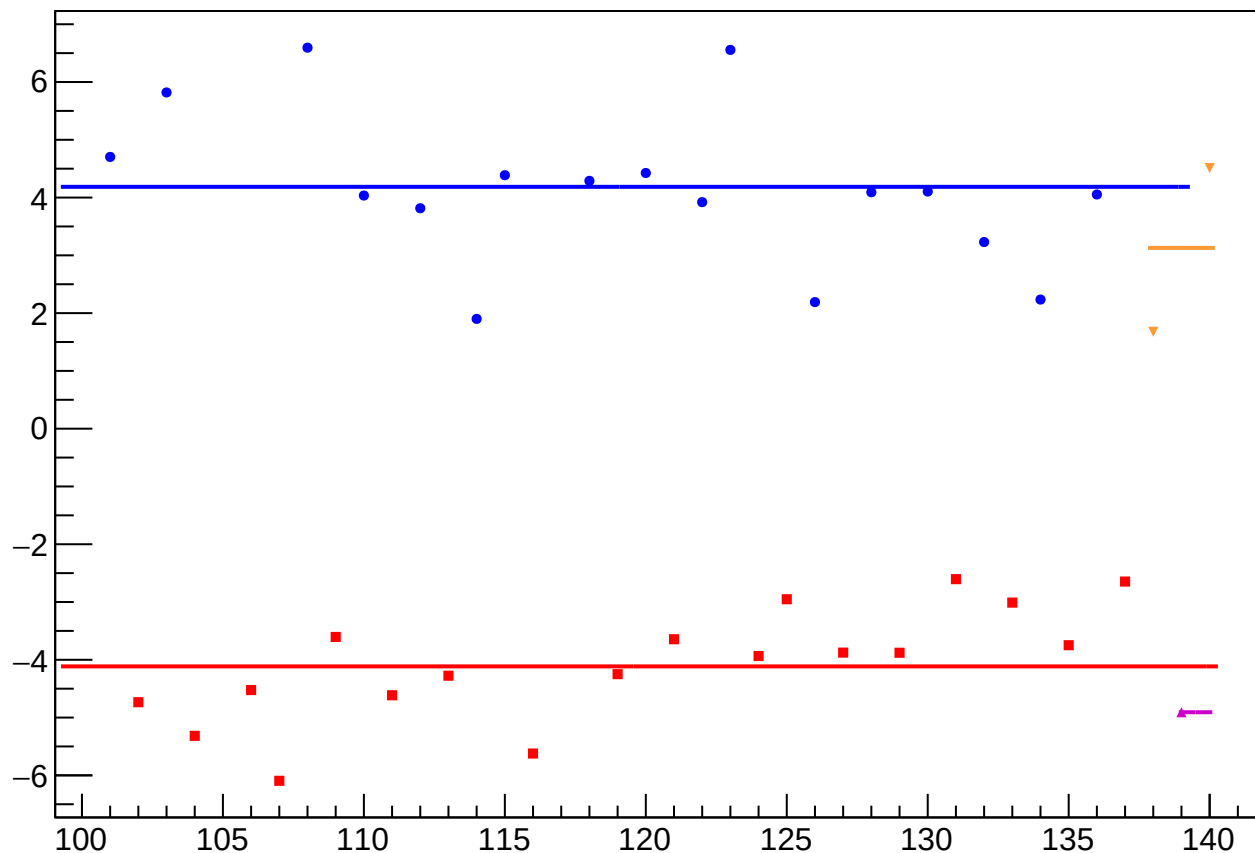
Out: -673.222 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_4eY\_coil3\_mean vs Slug, Sign Corrected



Right In: 4.186+/-0.000  $\chi^2/\text{NDF}$ : 774445398310846770950220892078080.0/16

Left Out: 3.129+/-0.000  $\chi^2/\text{NDF}$ : 320826747092810444824724868431872.0/1

Right Out: -4.114+/-0.000  $\chi^2/\text{NDF}$ : 573990867601521273238766982529024.0/17

Left In: -4.908+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.428+/-0.000  $\chi^2/\text{NDF}$ : 379405686728742650

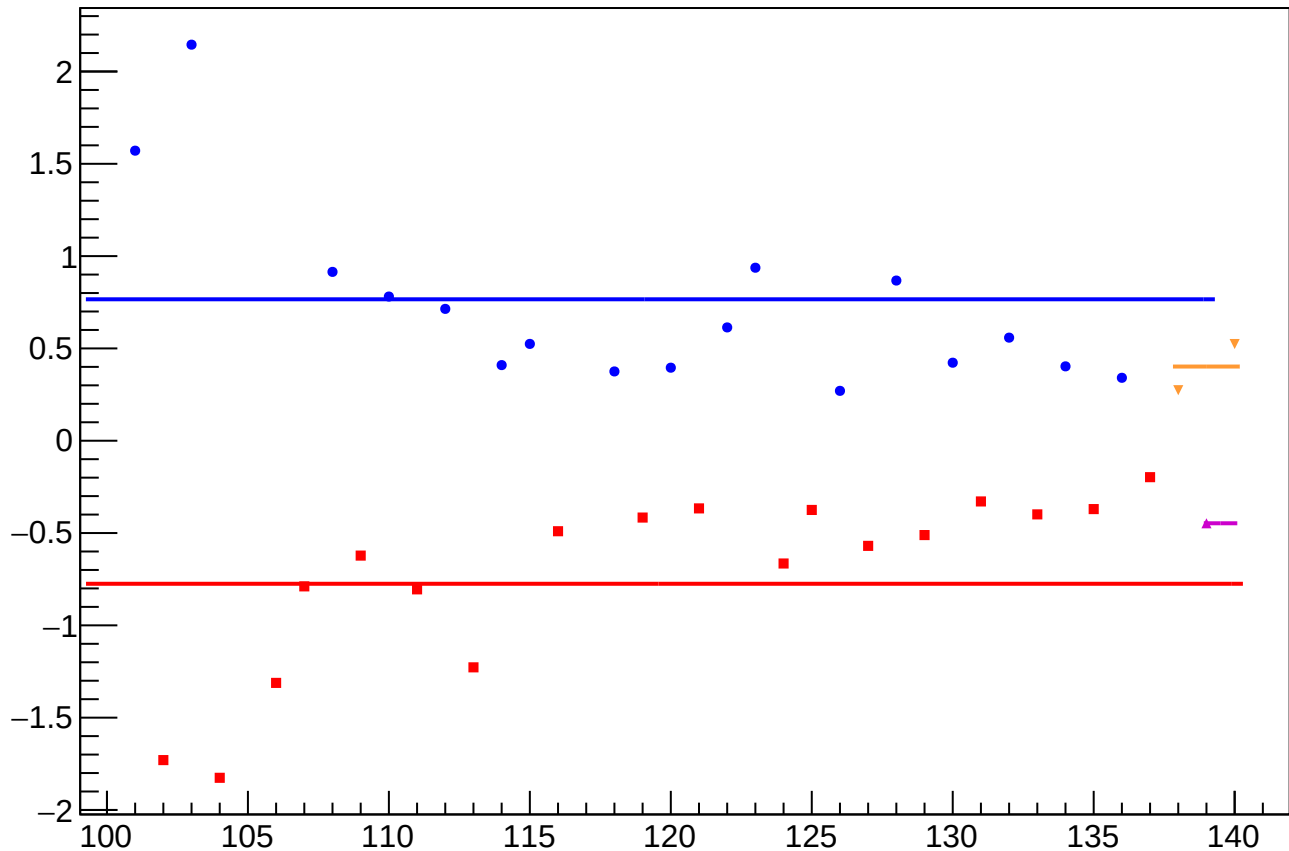
Right: -0.026+/-0.000  $\chi^2/\text{NDF}$ : 2561075955613807

In: 3.236+/-0.000  $\chi^2/\text{NDF}$ : 6772668900342410464

Out: -2.790+/-0.000  $\chi^2/\text{NDF}$ : 77539712388106293

All: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 29447193798283

dit\_4eY\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 0.766+/-0.000

$\chi^2/\text{NDF}$ : 204784790719097578994787197911040.0/16

Left Out: 0.402+/-0.000

$\chi^2/\text{NDF}$ : 2500128737441164438855646969856.0/1

Right Out: -0.775+/-0.000

$\chi^2/\text{NDF}$ : 182293178606852047340817164009472.0/17

Left In: -0.447+/-0.000

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

Left: 0.116+/-0.000  $\chi^2/\text{NDF}$ : 412597998718094280

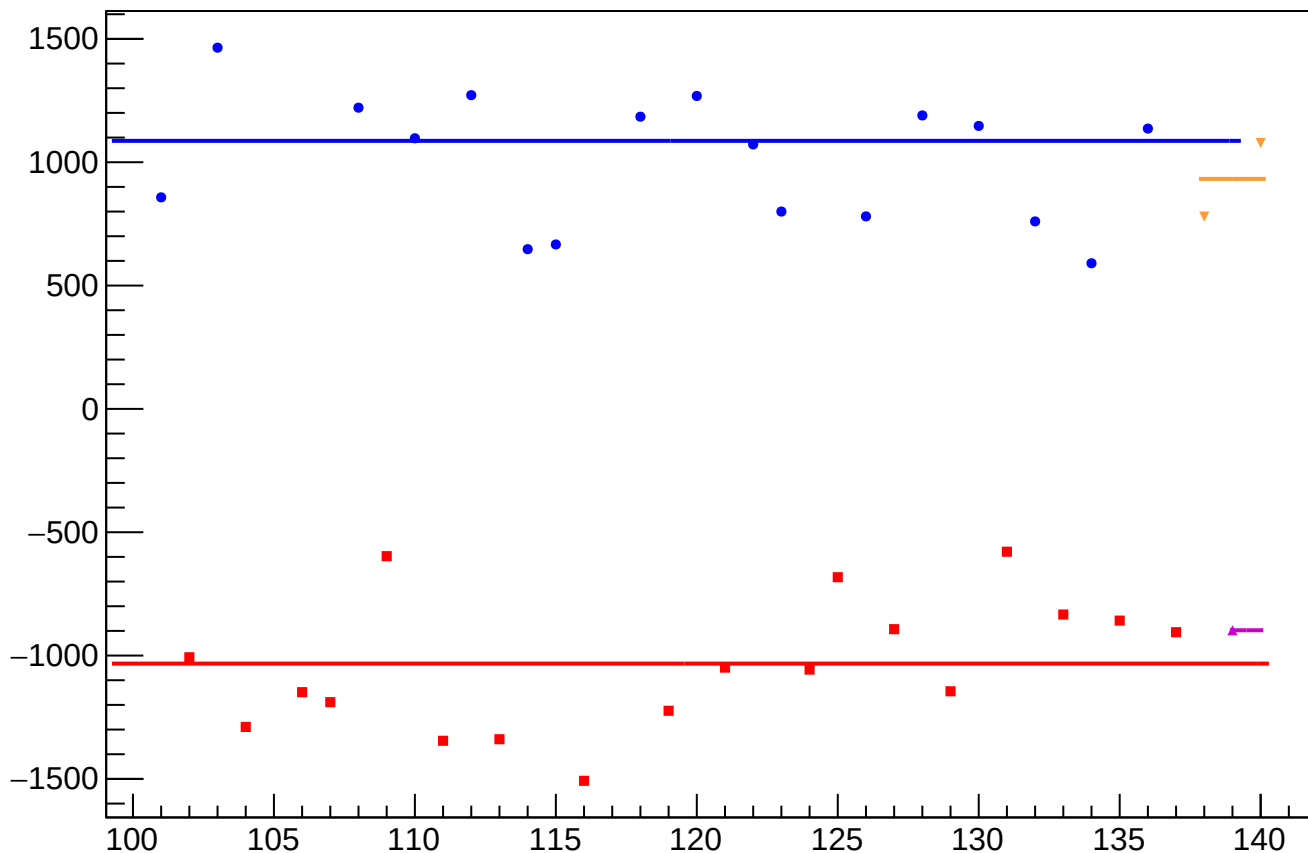
Right: -0.016+/-0.000  $\chi^2/\text{NDF}$ : 1223294668378502

In: 0.639+/-0.000  $\chi^2/\text{NDF}$ : 3115550047458340860

Out: -0.560+/-0.000  $\chi^2/\text{NDF}$ : 36580600060354437

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 12681579290195

dit\_4eY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

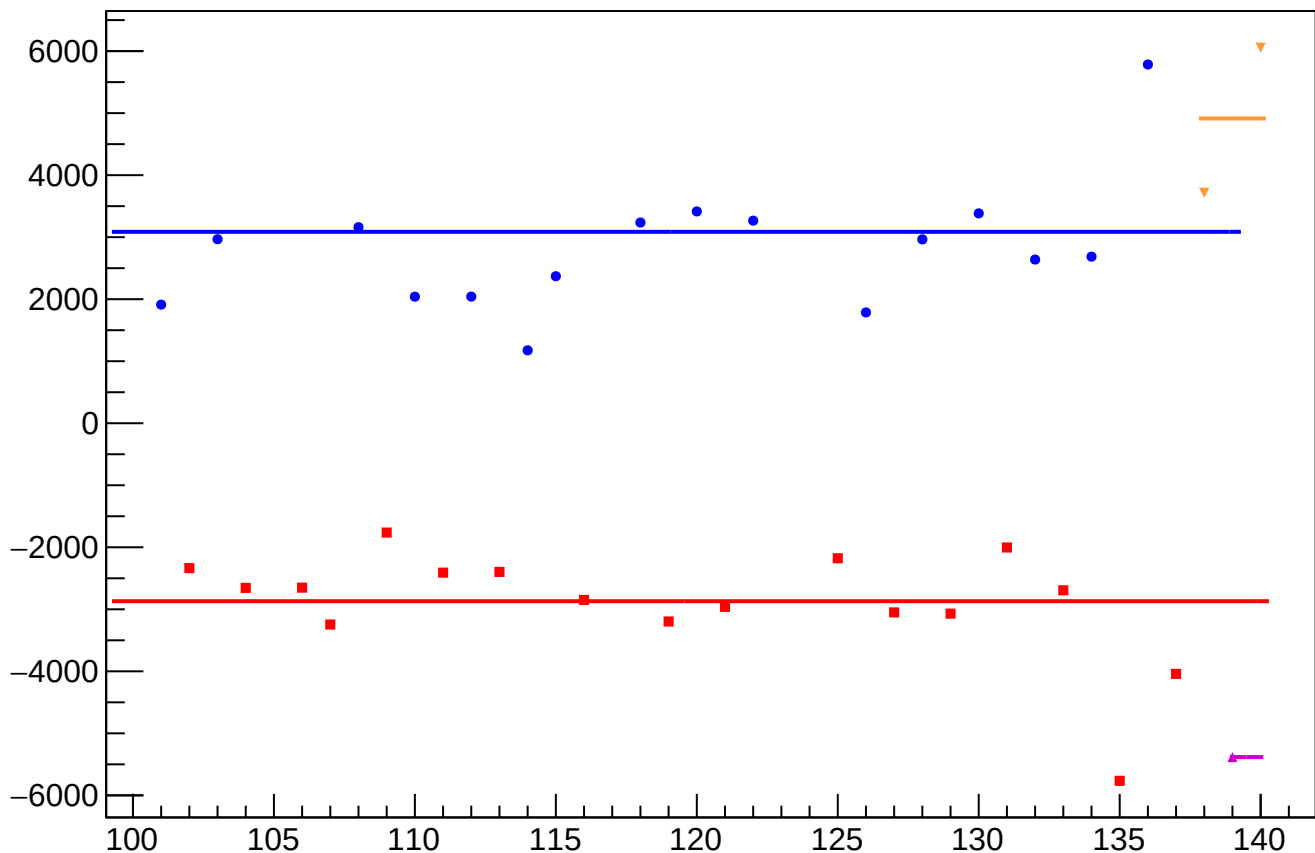
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_usl\_coil3\_mean vs Slug, Sign Corrected



Right In: 3086.294+/-0.000

$\chi^2/\text{NDF}$ : 957872647656521012418983150086021709824.0/15

Left Out: 4914.601+/-0.000

$\chi^2/\text{NDF}$ : 218976090586481937539085997759321341952.0/1

Right Out: -2869.332+/-0.000

$\chi^2/\text{NDF}$ : 591237562305543847323062569482235936768.0/16

Left In: -5382.902+/-0.000

$\chi^2/\text{NDF}$ : 67001629.6/0

Left: 1453.615+/-0.000  $\chi^2/\text{NDF}$ : 592129931929813

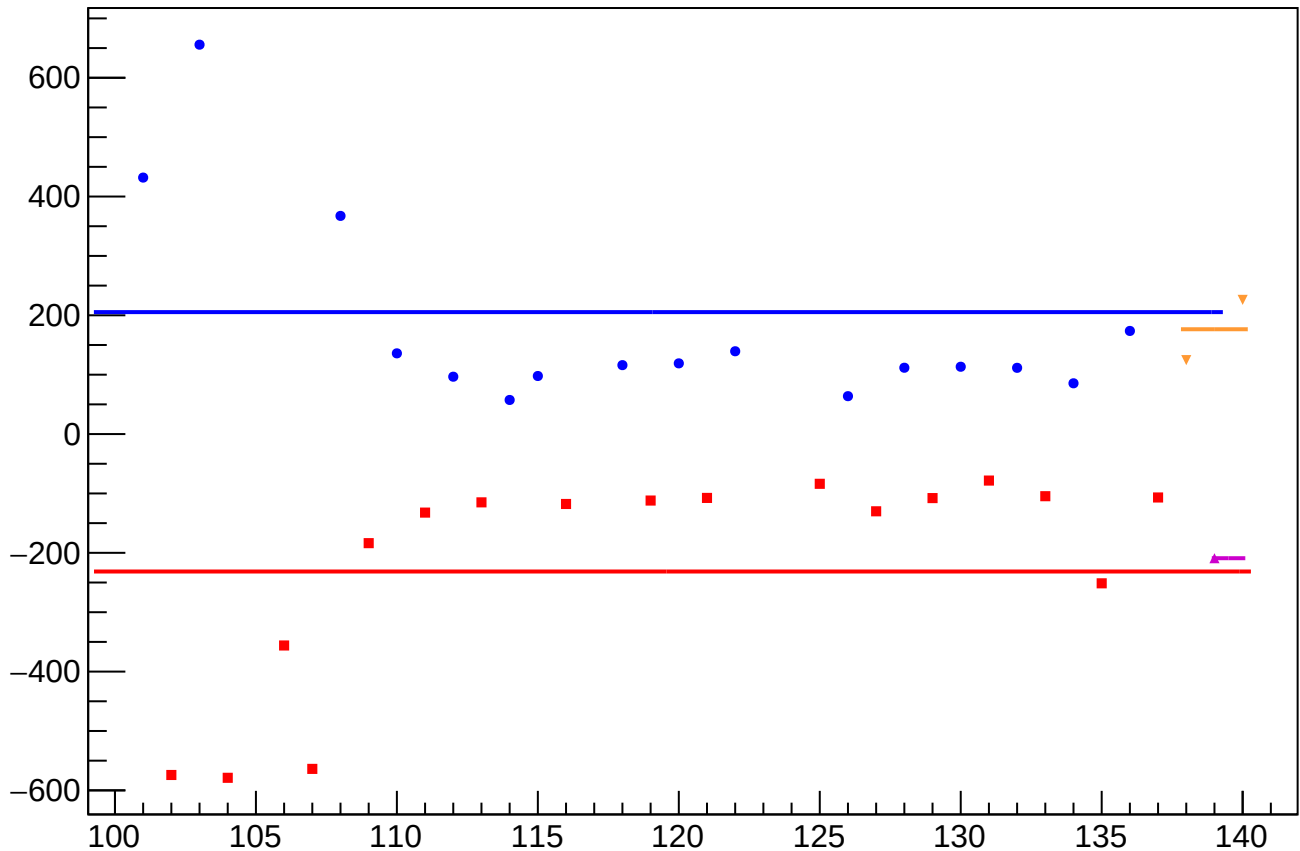
Right: 84.933+/-0.000  $\chi^2/\text{NDF}$ : 1388284788933610

In: 2196.534+/-0.000  $\chi^2/\text{NDF}$ : 6157402183171865

Out: -1422.840+/-0.000  $\chi^2/\text{NDF}$ : 87030486512602

All: 287.048+/-0.000  $\chi^2/\text{NDF}$ : 201889420957

# dit\_usl\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 205.364+/-0.000

$\chi^2/\text{NDF}$ : 20493668782682953984090808657754718208.0/15

Left Out: 176.510+/-0.000

$\chi^2/\text{NDF}$ : 411575491470032910026768009347989504.0/1

Right Out: -231.450+/-0.000

$\chi^2/\text{NDF}$ : 23996601891457376807935240829130506240.0/16

Left In: -209.062+/-0.000

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

Left: 46.919+/-0.000  $\chi^2/\text{NDF}$ : 84062086890197180

Right: -14.770+/-0.000  $\chi^2/\text{NDF}$ : 110839210771107

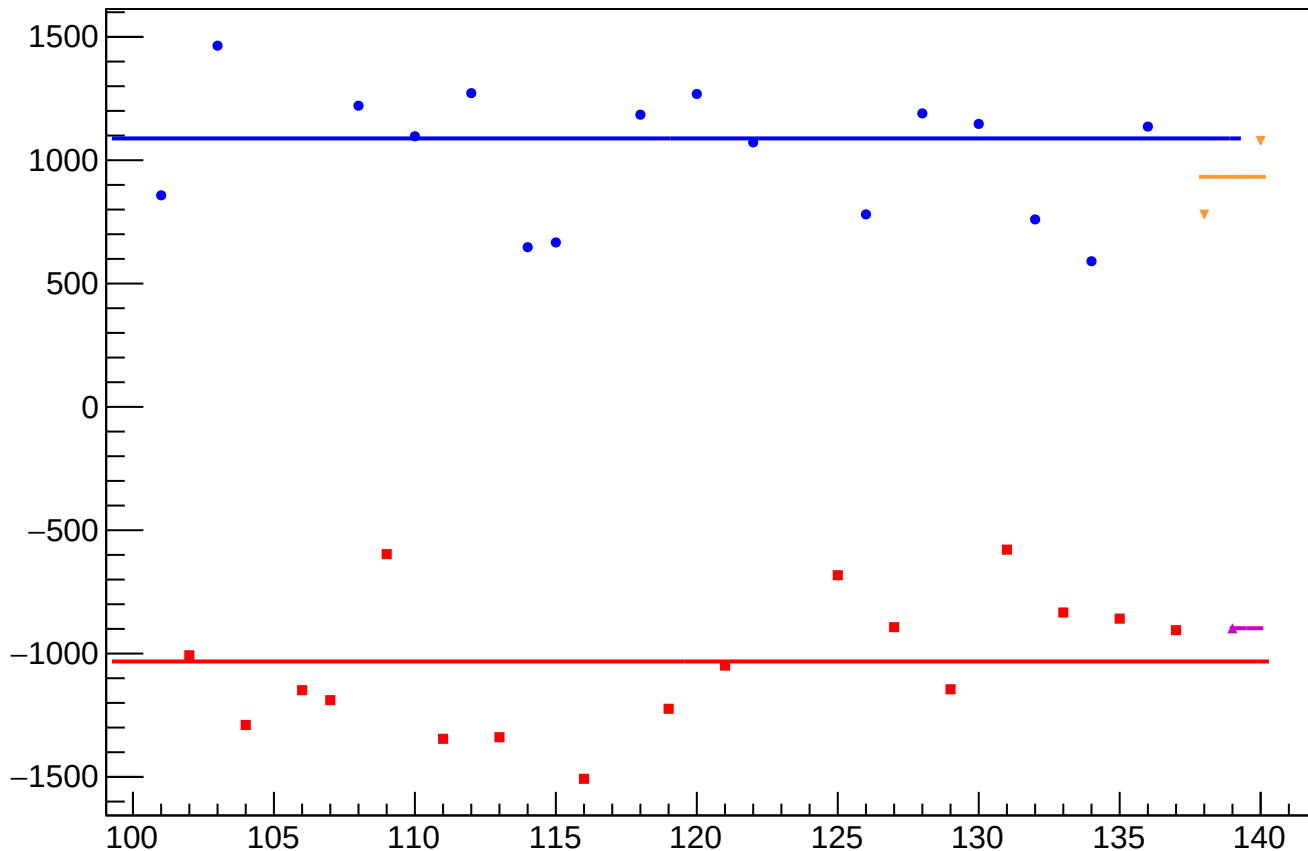
In: 161.825+/-0.000  $\chi^2/\text{NDF}$ : 3294383872928485

Out: -155.639+/-0.000  $\chi^2/\text{NDF}$ : 460886645475071

All: -5.660+/-0.000  $\chi^2/\text{NDF}$ : 1200271168048



dit\_usl\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1088.357+/-0.000

$\chi^2/\text{NDF}$ : 34282153777351983771685586546357960704.0/15

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.058+/-0.000

$\chi^2/\text{NDF}$ : 47606445983736508238206731798200713216.0/16

Left In: -897.407+/-0.000

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

In: 879.735+/-0.000

$\chi^2/\text{NDF}$ : 32013002794949074

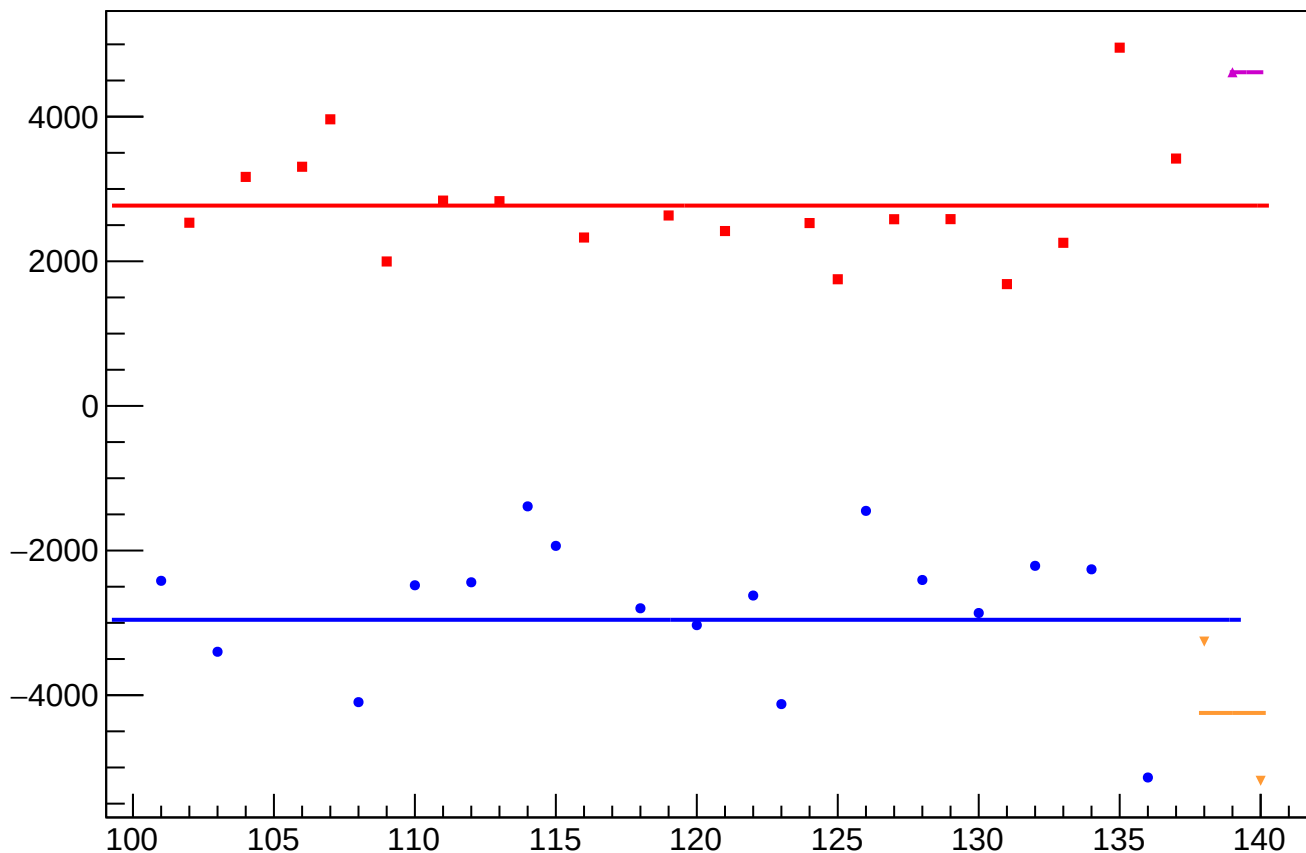
Out: -666.984+/-0.000

$\chi^2/\text{NDF}$ : 553934475862039

All: 63.727+/-0.000

$\chi^2/\text{NDF}$ : 1847170837676

# dit\_usr\_coil3\_mean vs Slug, Sign Corrected



Right In: -2957.567+/-0.000

Left Out: -4245.646+/-0.000

Right Out: 2770.253+/-0.000

Left In: 4614.299+/-0.000

$\chi^2/\text{NDF}$ : 713909426456610215881026852236843548672.0/16

$\chi^2/\text{NDF}$ : 148121332274327174406105998526917902336.0/1

$\chi^2/\text{NDF}$ : 445434357481765841936850386629712412672.0/17

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

Left: -1267.822+/-0.000  $\chi^2/\text{NDF}$ : 43694578960503

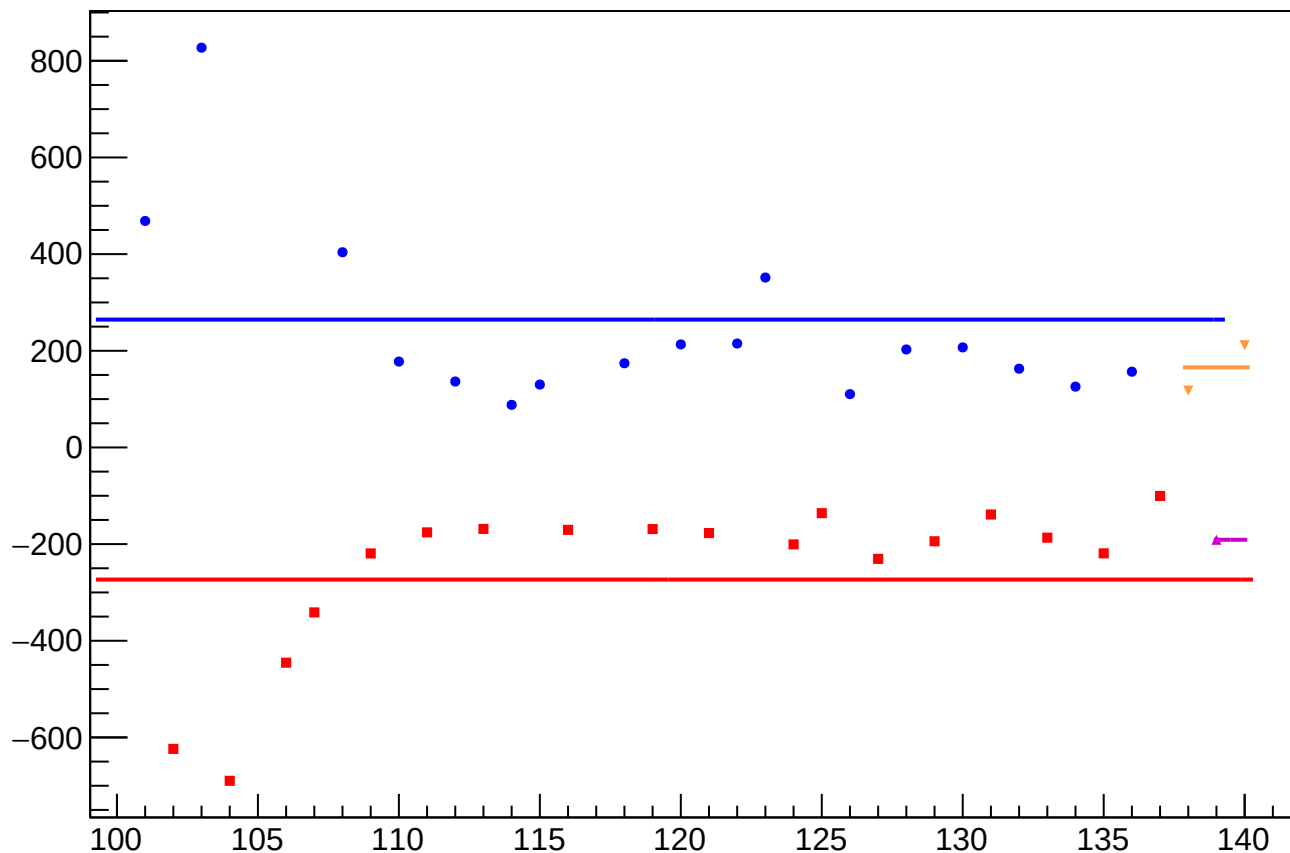
Right: -50.973+/-0.000  $\chi^2/\text{NDF}$ : 127133701983019

In: -2166.185+/-0.000  $\chi^2/\text{NDF}$ : 487252359581430

Out: 1487.346+/-0.000  $\chi^2/\text{NDF}$ : 702909101226424

All: -228.707+/-0.000  $\chi^2/\text{NDF}$ : 17387559957

dit\_usr\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 264.557+/-0.000  $\chi^2/\text{NDF}$ : 27392235444982313348552279916984401920.0/16

Left Out: 165.706+/-0.000  $\chi^2/\text{NDF}$ : 352397959695515780642290990319665152.0/1

Right Out: -273.375+/-0.000  $\chi^2/\text{NDF}$ : 22103440288407609769259099140296540160.0/17

Left In: -190.988+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 45.821+/-0.000  $\chi^2/\text{NDF}$ : 71943206194940570

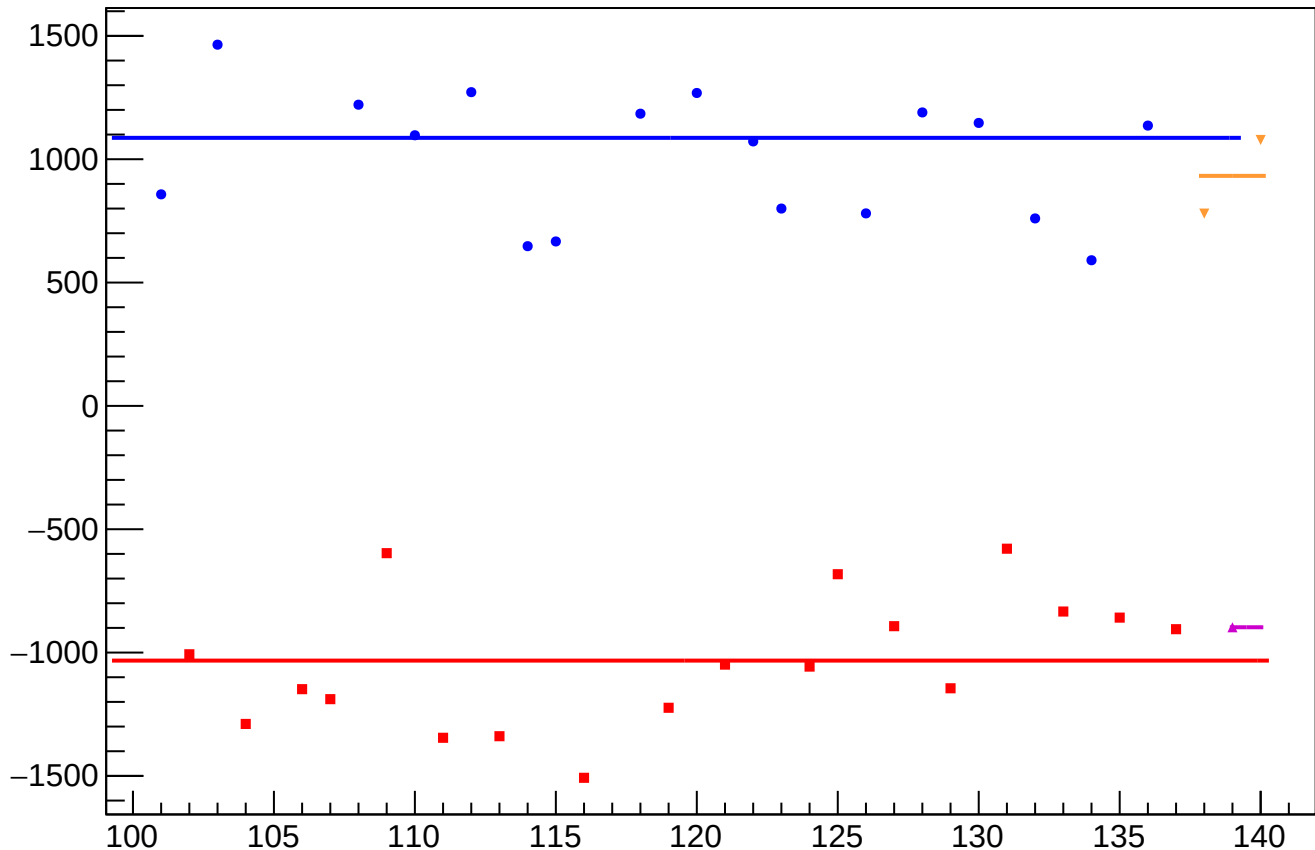
Right: -8.418+/-0.000  $\chi^2/\text{NDF}$ : 1514037633807586

In: 216.945+/-0.000  $\chi^2/\text{NDF}$ : 4244458407942663

Out: -193.086+/-0.000  $\chi^2/\text{NDF}$ : 476619859763182

All: -0.496+/-0.000  $\chi^2/\text{NDF}$ : 1592035189636

dit\_usr\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

Left: 317.469+/-0.000  $\chi^2/\text{NDF}$ : 1836353331689843

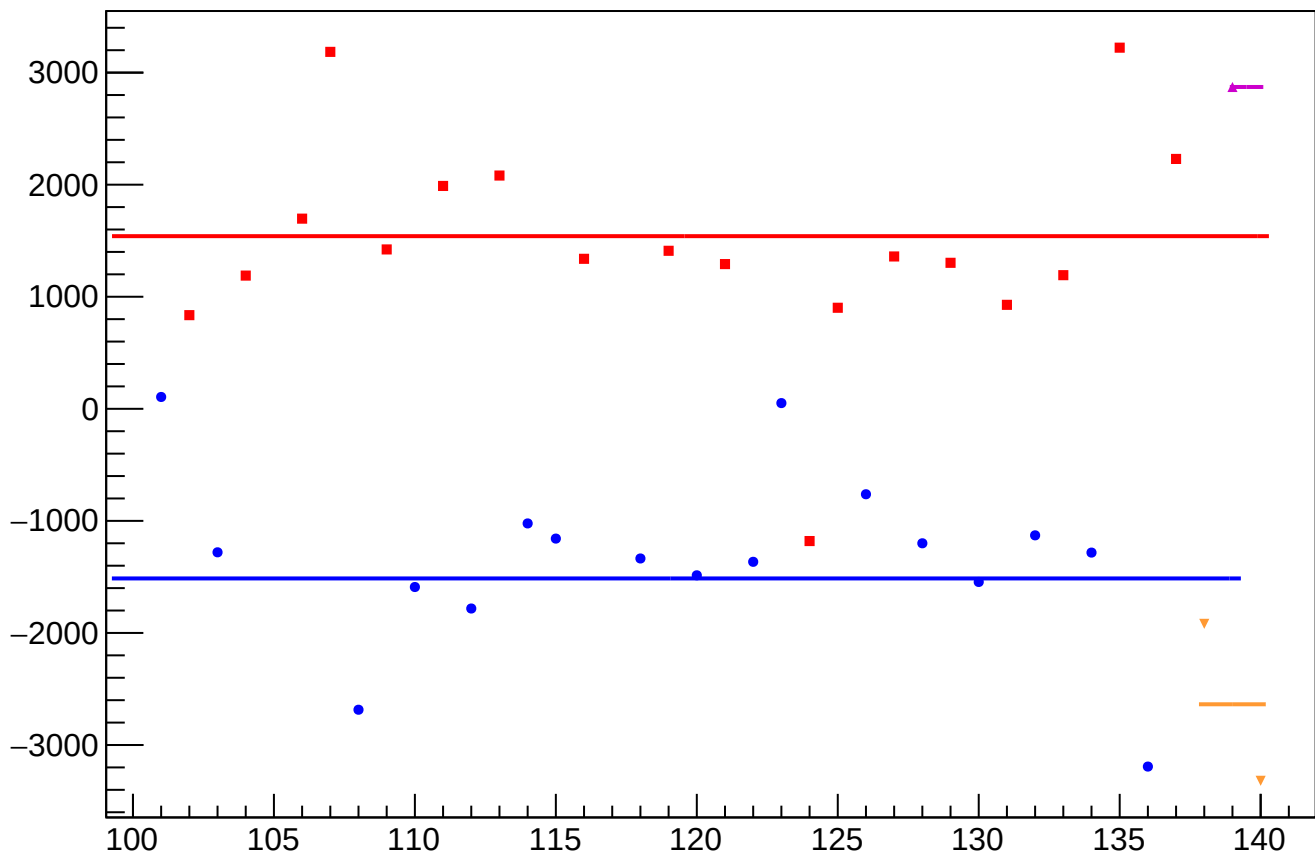
Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

In: 879.324+/-0.000  $\chi^2/\text{NDF}$ : 32015532763453157

Out: -673.222+/-0.000  $\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000  $\chi^2/\text{NDF}$ : 1866820745271

# dit\_atl1\_coil3\_mean vs Slug, Sign Corrected



Right In: -1513.653+/-0.000

Left Out: -2636.597+/-0.000

Right Out: 1540.621+/-0.000

Left In: 2871.822+/-0.000

$\chi^2/\text{NDF}$ : 514234912482757513557339366977389461504.0/16

$\chi^2/\text{NDF}$ : 78415547234327719427048924737272020992.0/1

$\chi^2/\text{NDF}$ : 446199417852057016559160819528574697472.0/17

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

Left: -785.220+/-0.000  $\chi^2/\text{NDF}$ : 171012104084395

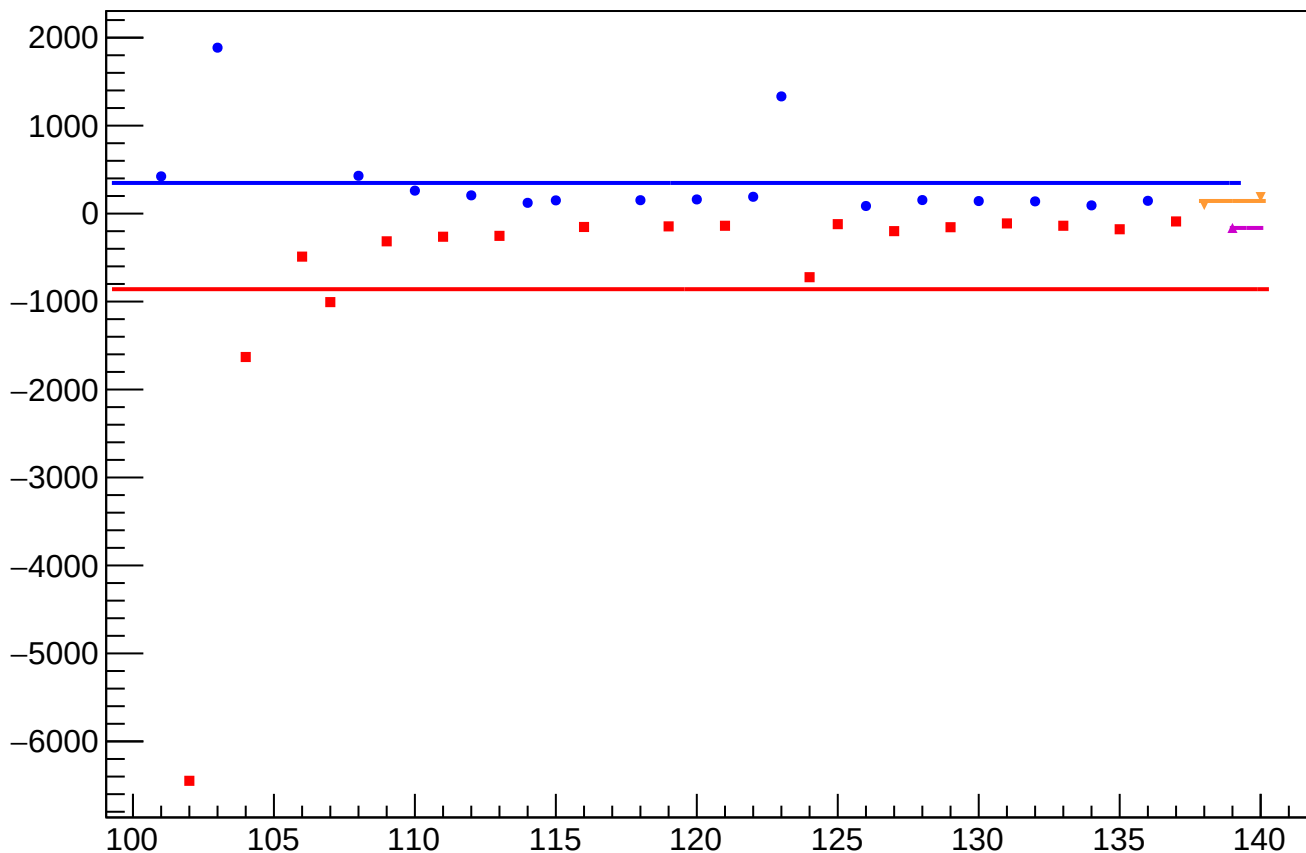
Right: 36.245+/-0.000  $\chi^2/\text{NDF}$ : 4245699622257131

In: -1055.300+/-0.000  $\chi^2/\text{NDF}$ : 190924056369832

Out: 776.787+/-0.000  $\chi^2/\text{NDF}$ : 2805966199227165

All: -83.739+/-0.000  $\chi^2/\text{NDF}$ : 609469482841

dit\_atl1\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 348.444+/-0.000

$\chi^2/\text{NDF}$ : 164421878122610355371654497383202422784.0/16

Left Out: 143.526+/-0.000

$\chi^2/\text{NDF}$ : 326903638508764686380673704440889344.0/1

Right Out: -859.360+/-0.000

$\chi^2/\text{NDF}$ : 2089894584846900651264019930845330538496.0/17

Left In: -163.170+/-0.000

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

Left: 40.446+/-0.000  $\chi^2/\text{NDF}$ : 53852058192610048

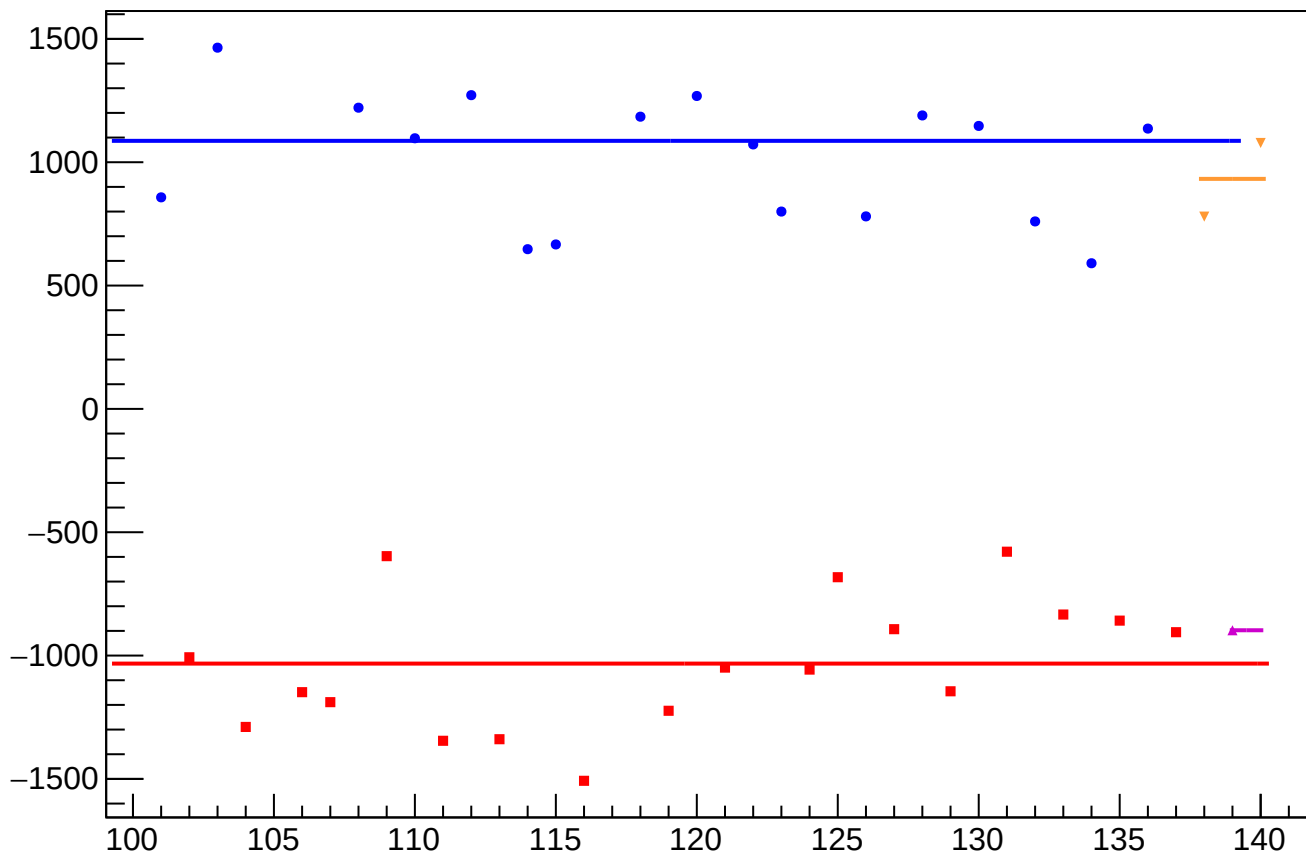
Right: -264.459+/-0.000  $\chi^2/\text{NDF}$ : 27680616166977

In: 294.972+/-0.000  $\chi^2/\text{NDF}$ : 1834076319142579

Out: -675.975+/-0.000  $\chi^2/\text{NDF}$ : 222172020959940

All: -219.924+/-0.000  $\chi^2/\text{NDF}$ : 27925793223

dit\_atl1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

Left: 317.469+/-0.000  $\chi^2/\text{NDF}$ : 1836353331689843

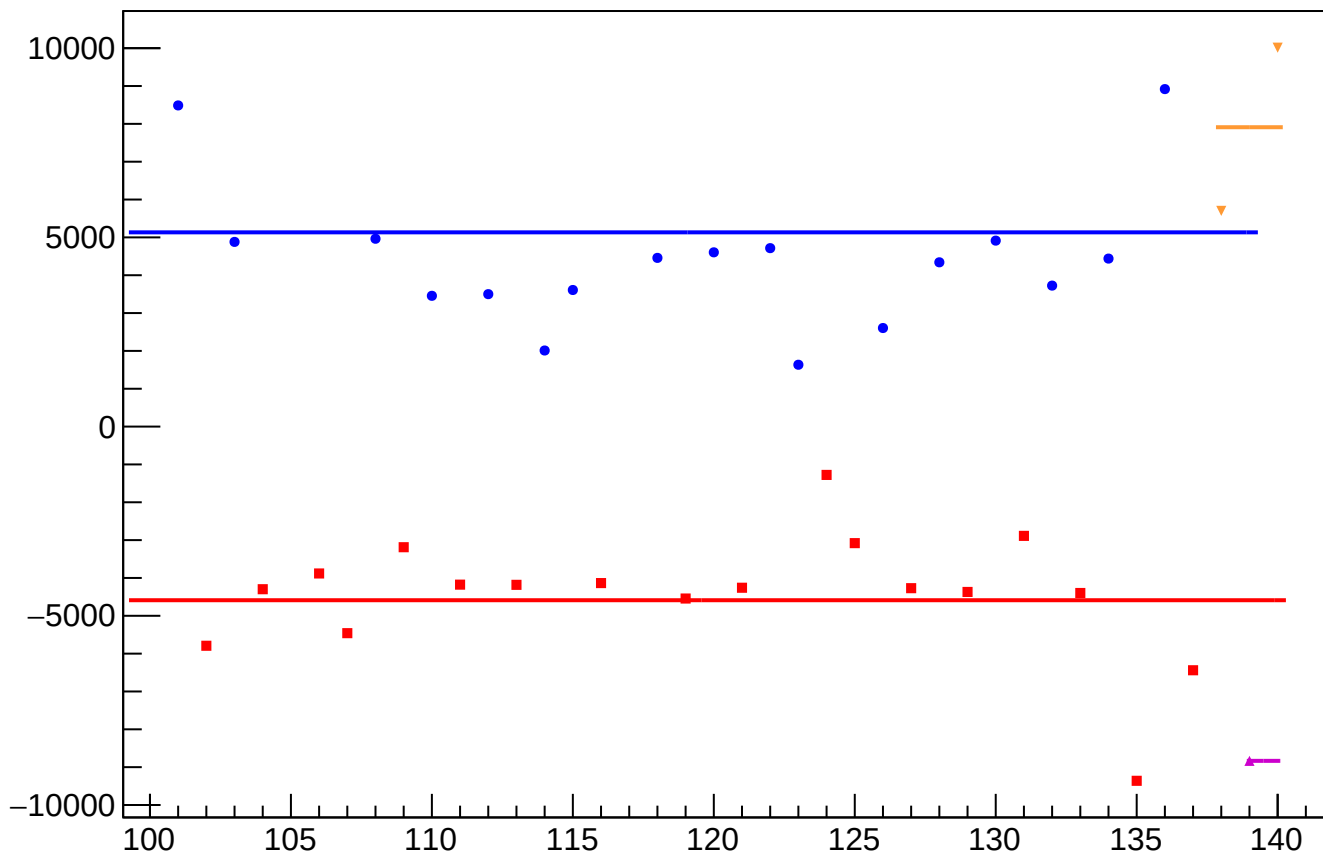
Right: 11.282+/-0.000  $\chi^2/\text{NDF}$ : 1663891694726158

In: 879.324+/-0.000  $\chi^2/\text{NDF}$ : 3201553276345315

Out: -673.222+/-0.000  $\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000  $\chi^2/\text{NDF}$ : 1866820745271

# dit\_atl2\_coil3\_mean vs Slug, Sign Corrected



Right In: 5133.097+/-0.000

$\chi^2/\text{NDF}$ : 2783606731789543492542627200033364115456.0/16

Left Out: 7910.856+/-0.000

$\chi^2/\text{NDF}$ : 743504777804571121252240714113656815616.0/1

Right Out: -4588.565+/-0.000

$\chi^2/\text{NDF}$ : 1762679658137517030098233744958039261184.0/17

Left In: -8833.430+/-0.000

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

Left: 2283.109+/-0.000  $\chi^2/\text{NDF}$ : 158207241557102

Right: 199.820+/-0.000  $\chi^2/\text{NDF}$ : 378302871911118

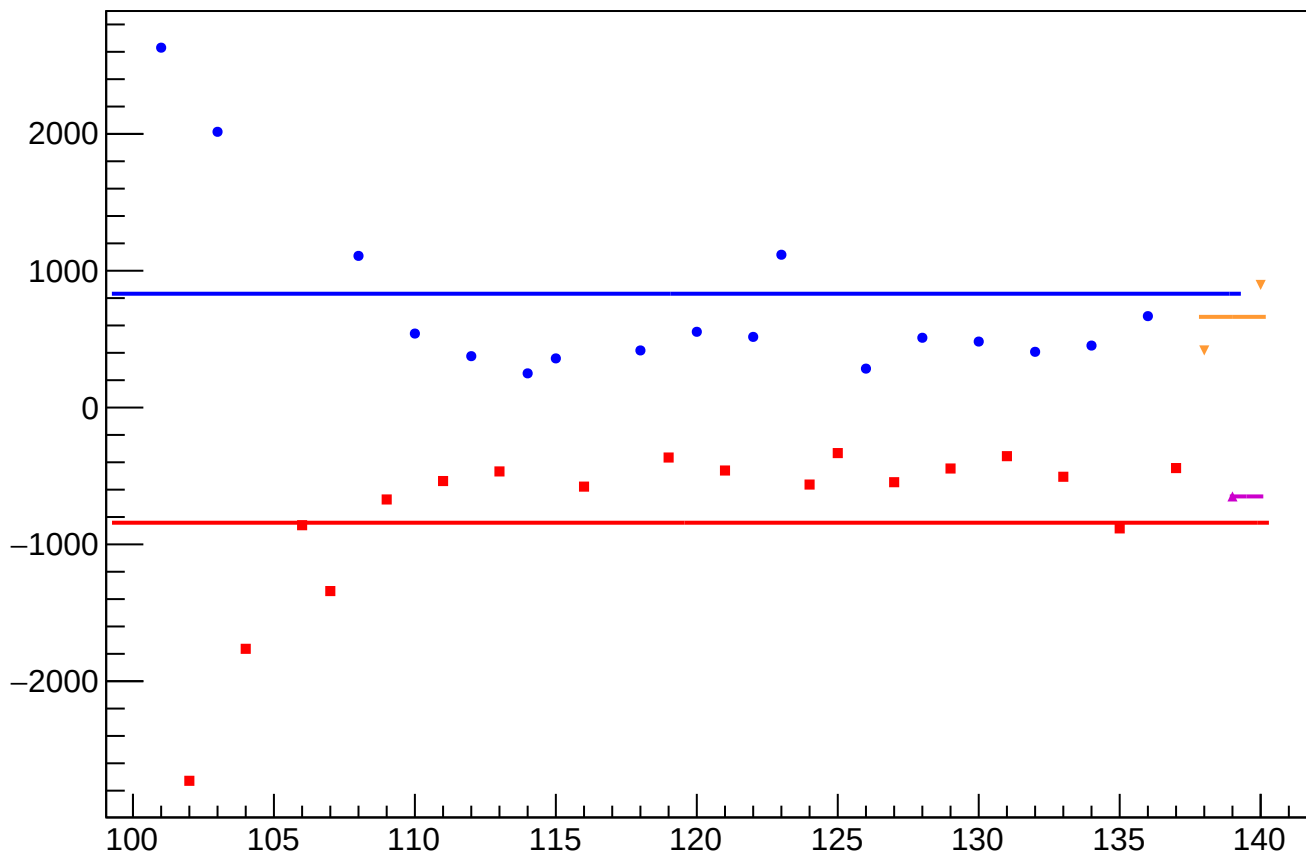
In: 3673.370+/-0.000  $\chi^2/\text{NDF}$ : 169324082787101

Out: -2302.956+/-0.000  $\chi^2/\text{NDF}$ : 22932863142115

All: 504.106+/-0.000  $\chi^2/\text{NDF}$ : 545441999218



dit\_atl2\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 831.957+/-0.000

$\chi^2/\text{NDF}$ : 349451729062960856481628082238677581824.0/16

Left Out: 662.890+/-0.000

$\chi^2/\text{NDF}$ : 9164860949561677148093788825638141952.0/1

Right Out: -841.697+/-0.000

$\chi^2/\text{NDF}$ : 327194571788790762884924618221350289408.0/17

Left In: -649.528+/-0.000

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

Left: 221.787+/-0.000  $\chi^2/\text{NDF}$ : 1017908025657842

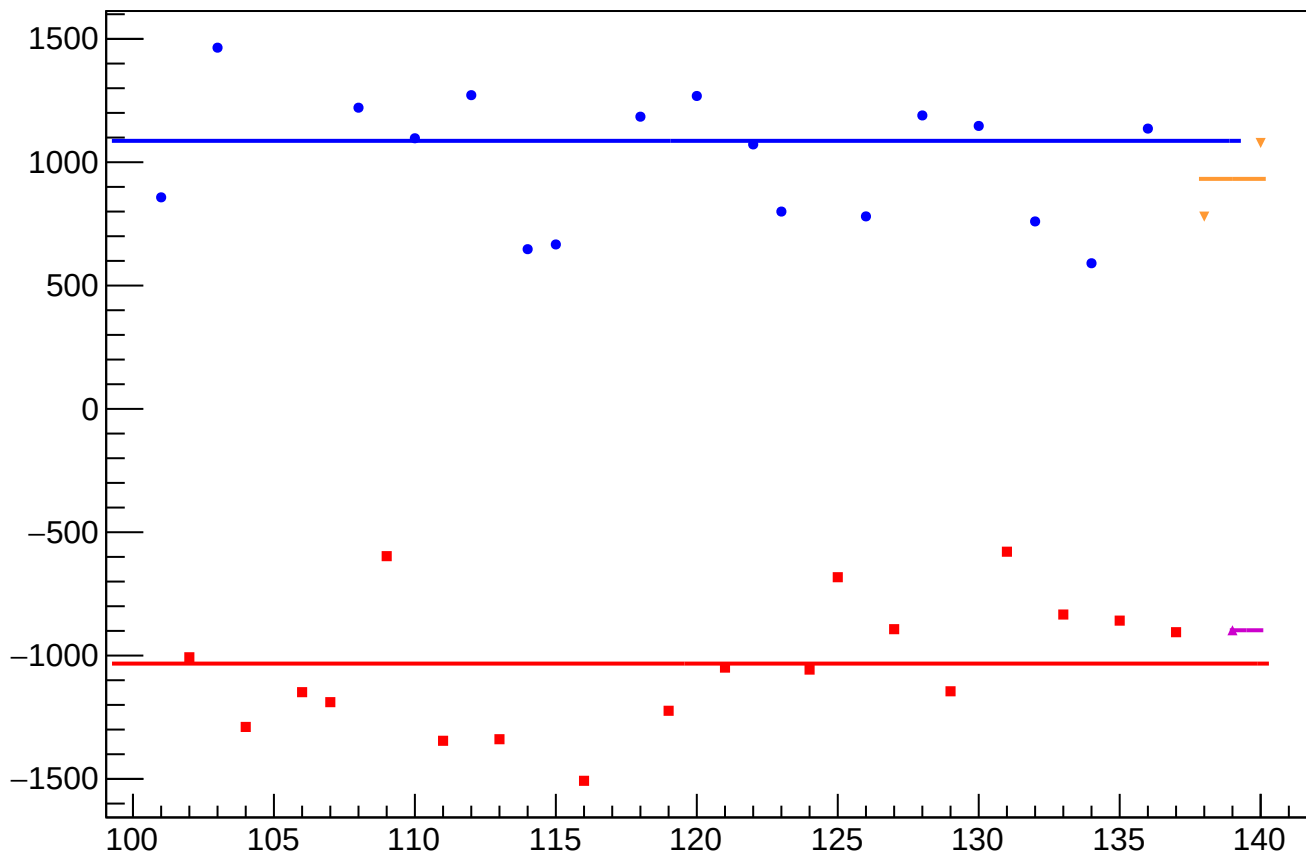
Right: -17.342+/-0.000  $\chi^2/\text{NDF}$ : 166312131031123

In: 677.118+/-0.000  $\chi^2/\text{NDF}$ : 5086497477944589

Out: -566.573+/-0.000  $\chi^2/\text{NDF}$ : 632332875816982

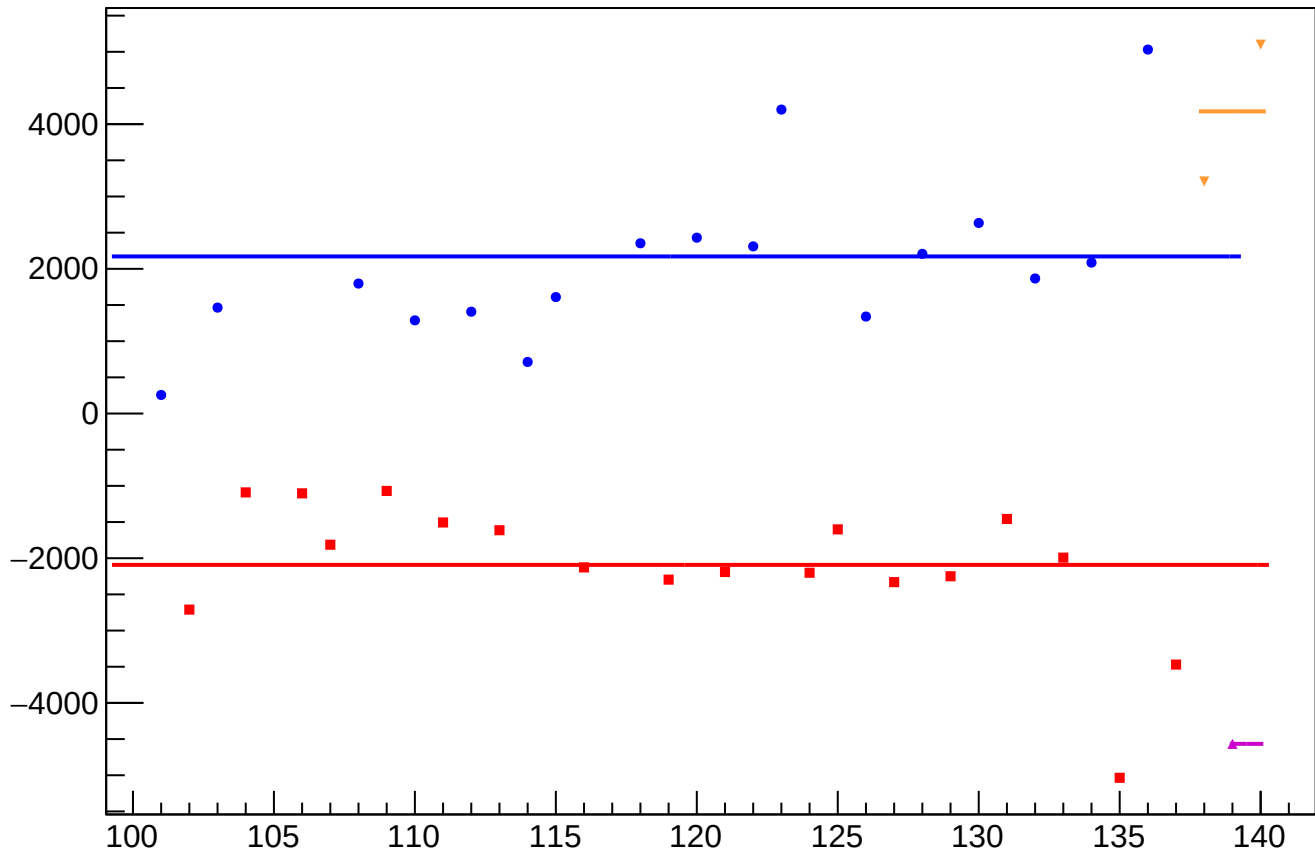
All: 17.585+/-0.000  $\chi^2/\text{NDF}$ : 177668027373

dit\_atl2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 932.500+/-0.000  $\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -897.407+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 56.004+/-0.000  $\chi^2/\text{NDF}$ : 1866820745271

# dit\_atr1\_coil3\_mean vs Slug, Sign Corrected



Right In: 2171.584+/-0.000

$\chi^2/\text{NDF}$ : 1121481436711992505747608002078061887488.0/16

Left: 1238.375+/-0.000  $\chi^2/\text{NDF}$ : 425341750196395

Right: 7.836+/-0.000  $\chi^2/\text{NDF}$ : 81918372938558384

Left Out: 4176.840+/-0.000

$\chi^2/\text{NDF}$ : 142932665077931121853685270151631470592.0/1

In: 1467.398+/-0.000  $\chi^2/\text{NDF}$ : 4414174356695942

Right Out: -2092.361+/-0.000

$\chi^2/\text{NDF}$ : 667441885377832140265043131761621467136.0/17

Out: -945.993+/-0.000  $\chi^2/\text{NDF}$ : 594894497196481

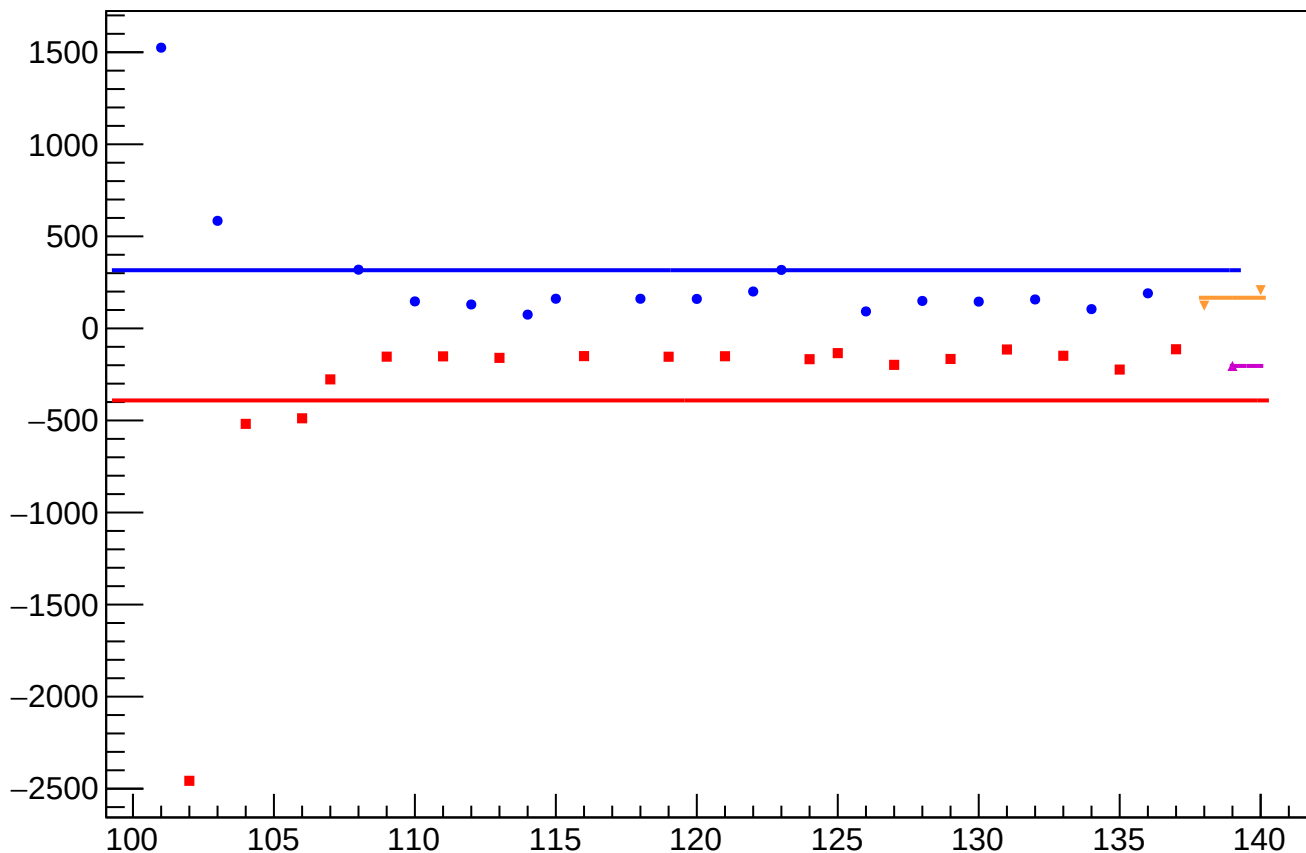
Left In: -4566.001+/-0.000

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

All: 187.569+/-0.000

$\chi^2/\text{NDF}$ : 127568814219

# dit\_atr1\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 315.988+/-0.000

$\chi^2/\text{NDF}$ : 105245970043528229052885068868464148480.0/16

Left Out: 166.569+/-0.000

$\chi^2/\text{NDF}$ : 283871651481759339730032870243172352.0/1

Right Out: -391.241+/-0.000

$\chi^2/\text{NDF}$ : 278615743451952201300141162839823876096.0/17

Left In: -203.838+/-0.000

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

Left: 42.075+/-0.000  $\chi^2/\text{NDF}$ : 7662008182545256

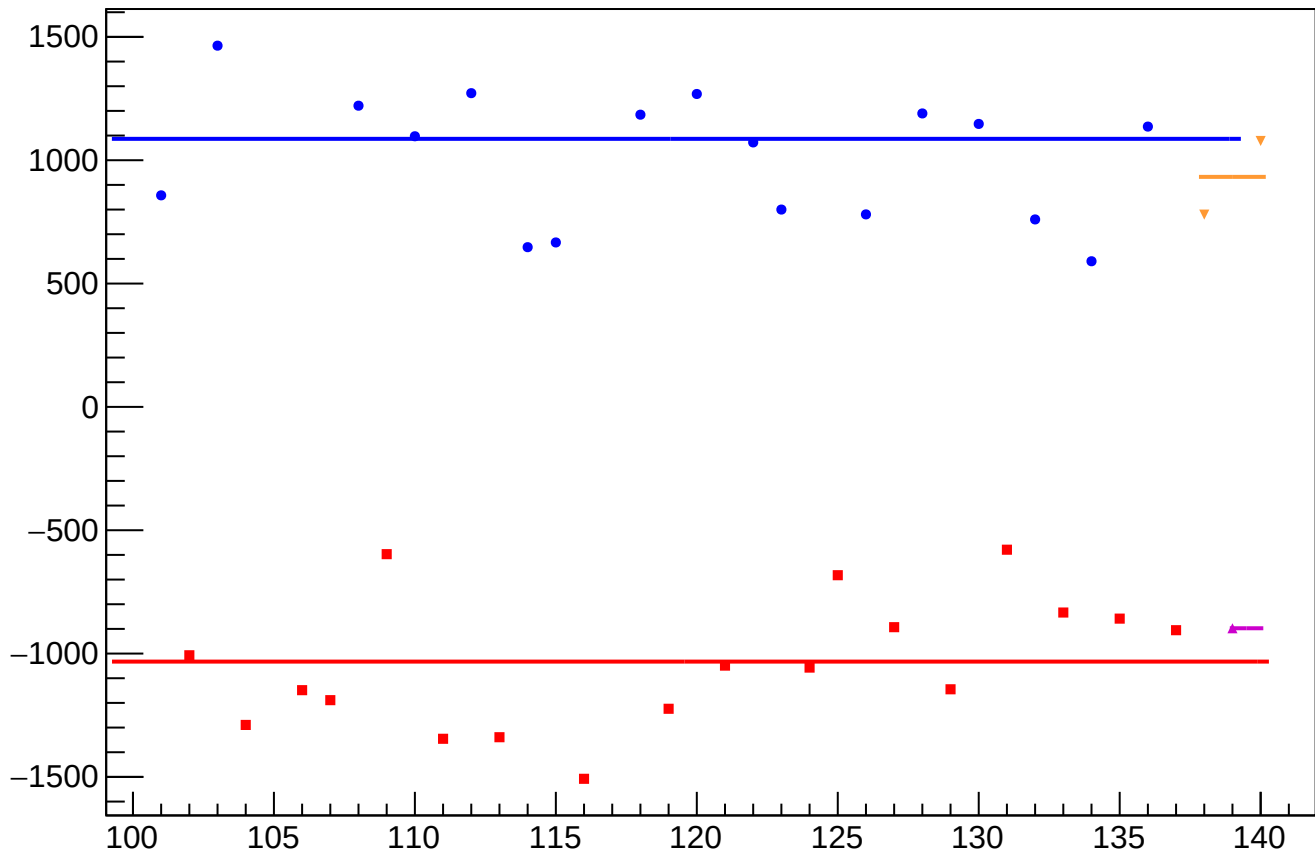
Right: -42.897+/-0.000  $\chi^2/\text{NDF}$ : 560008515925605

In: 261.658+/-0.000  $\chi^2/\text{NDF}$ : 1248461226322876

Out: -289.241+/-0.000  $\chi^2/\text{NDF}$ : 319580494485079

All: -30.486+/-0.000  $\chi^2/\text{NDF}$ : 569156443500

dit\_atr1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

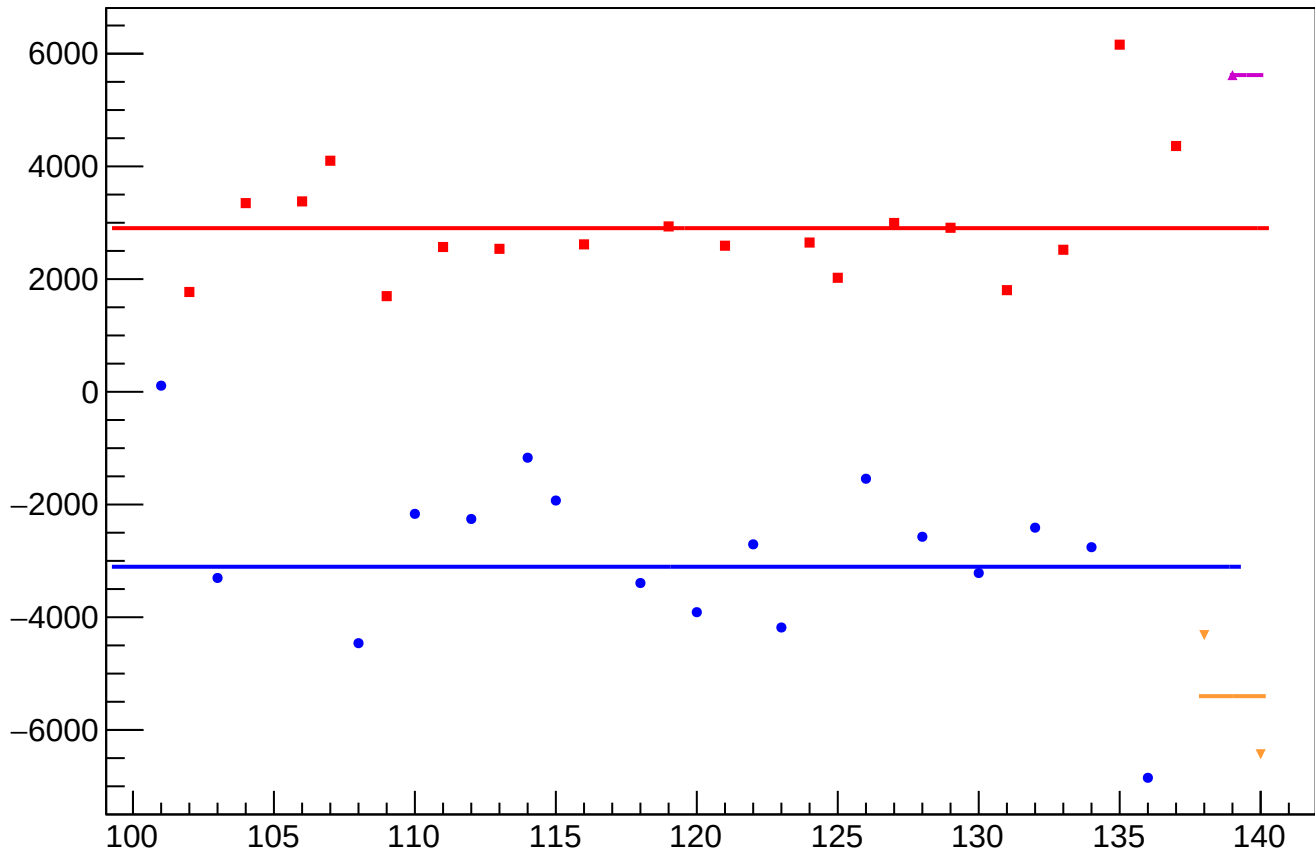
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_atr2\_coil3\_mean vs Slug, Sign Corrected



Right In: -3104.086+/-0.000

Left Out: -5400.529+/-0.000

Right Out: 2904.095+/-0.000

Left In: 5620.407+/-0.000

$\chi^2/\text{NDF}$ : 2219830093322908449503226232551283621888.0/16

$\chi^2/\text{NDF}$ : 178826788473558366858514798001795366912.0/1

$\chi^2/\text{NDF}$ : 863466592603439885705858083509569060864.0/17

$\chi^2/\text{NDF}$ : 67001629.6/0

Left: -1696.397+/-0.000  $\chi^2/\text{NDF}$ : 67105074676246

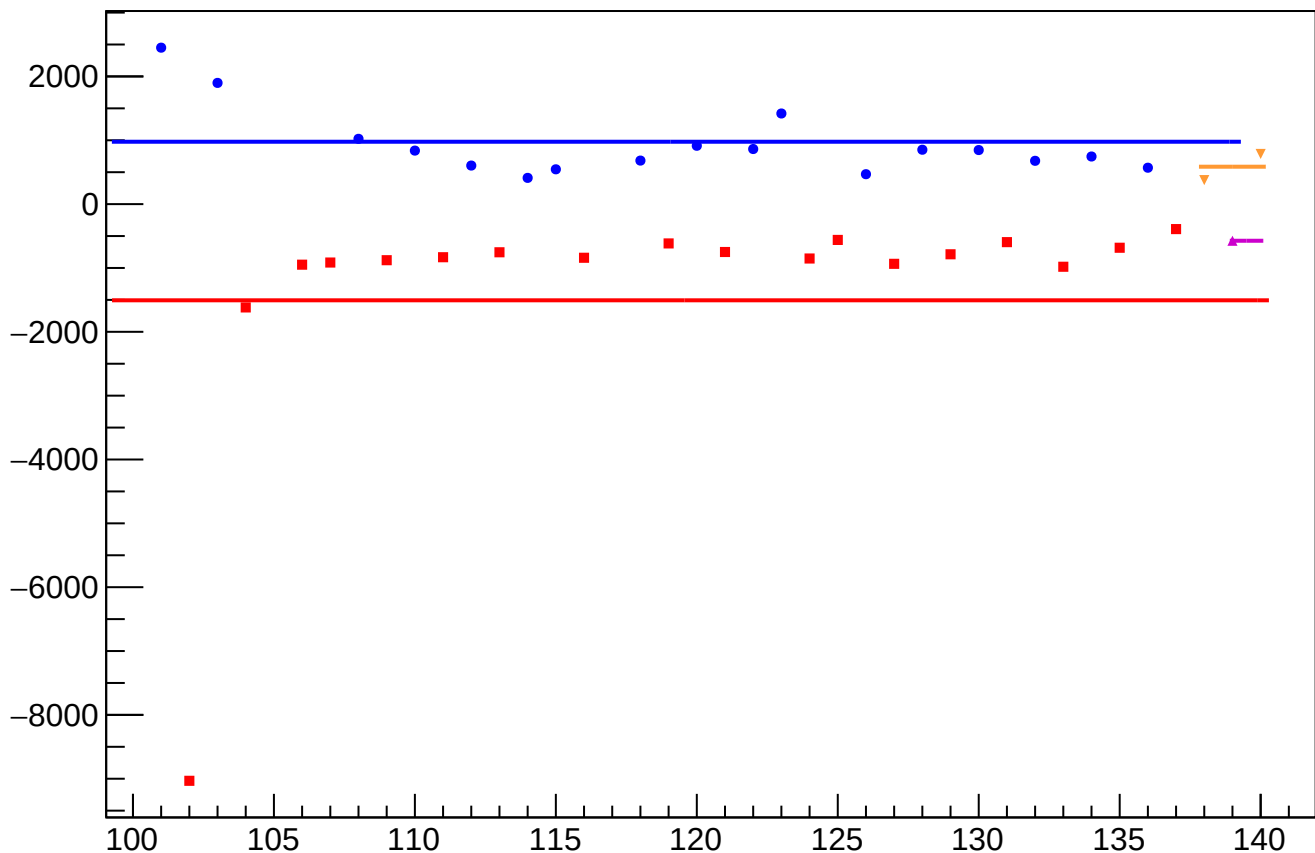
Right: -55.222+/-0.000  $\chi^2/\text{NDF}$ : 157960799748742

In: -2192.236+/-0.000  $\chi^2/\text{NDF}$ : 774089979747619

Out: 1385.535+/-0.000  $\chi^2/\text{NDF}$ : 100592085421529

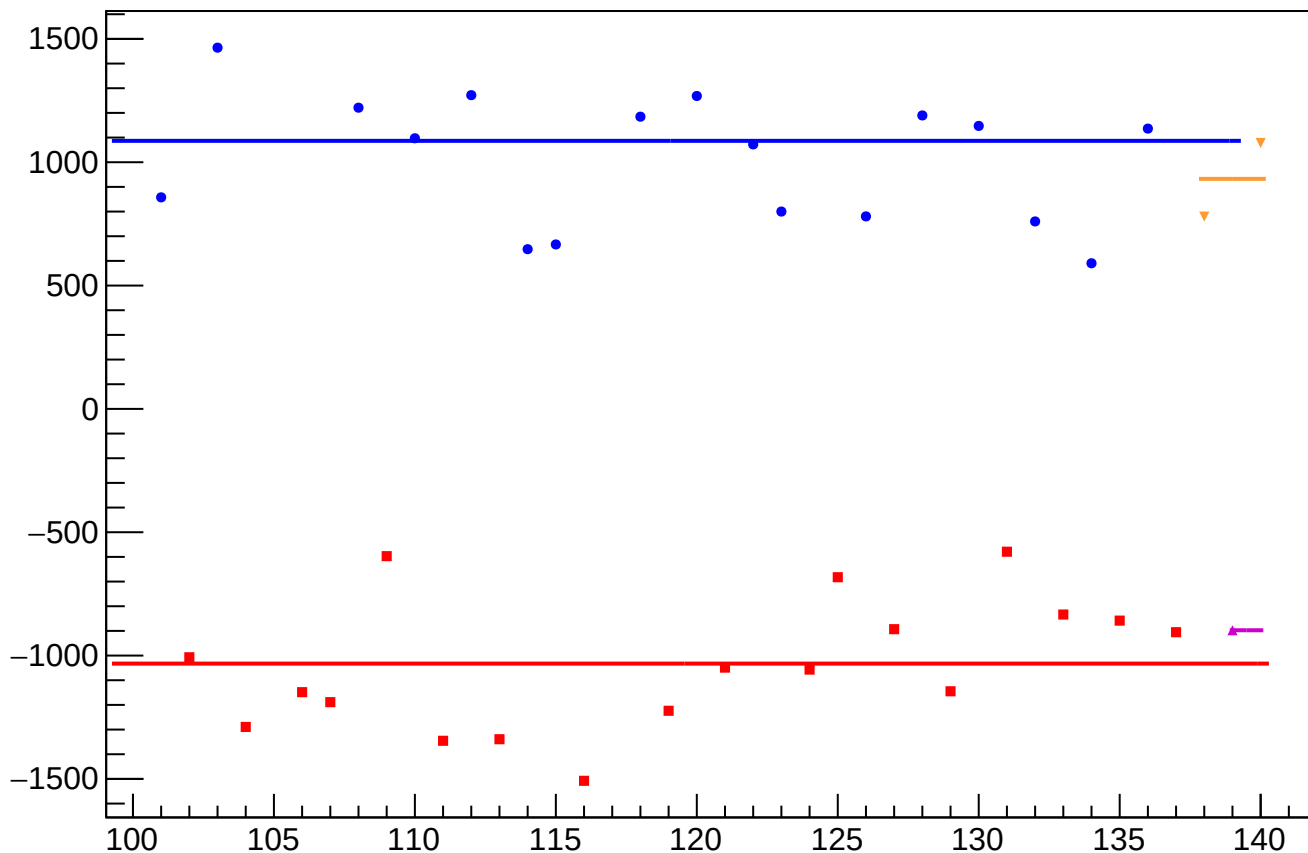
All: -294.933+/-0.000  $\chi^2/\text{NDF}$ : 23060899022

dit\_atr2\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 977.095+/-0.000  $\chi^2/\text{NDF}$ : 229572106069348964280530708212477853696.0/16  
 Left Out: 586.088+/-0.000  $\chi^2/\text{NDF}$ : 6710377454126823638347944960876085248.0/1  
 Right Out: -1506.543+/-0.000  $\chi^2/\text{NDF}$ : 3621204096431683433019783695973291655168.0/17  
 Left In: -573.757+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -213.197+/-0.000  $\chi^2/\text{NDF}$ : 61495010324

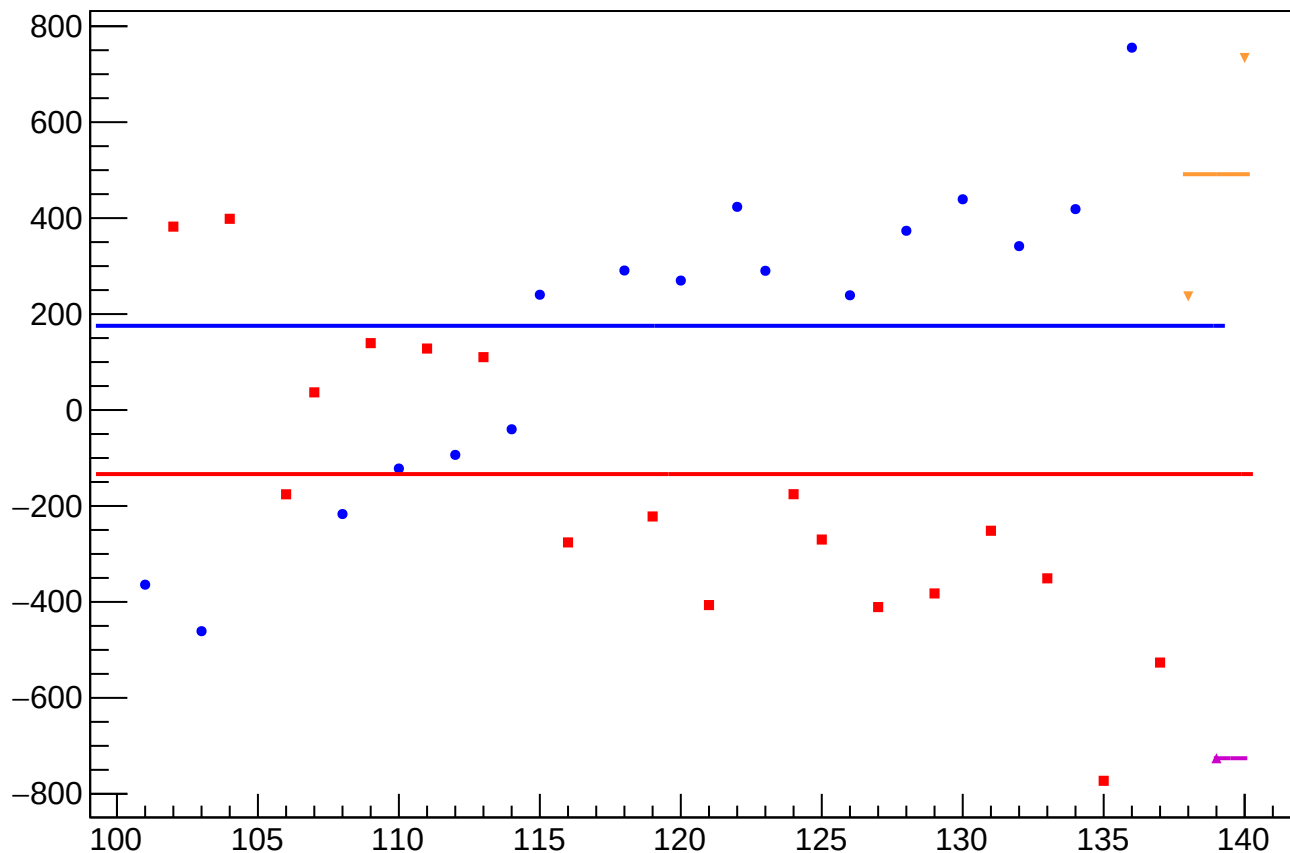
dit\_atr2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000  $\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16  
 Left Out: 932.500+/-0.000  $\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1  
 Right Out: -1032.544+/-0.000  $\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17  
 Left In: -897.407+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 56.004+/-0.000  $\chi^2/\text{NDF}$ : 1866820745271



# dit\_sam1\_coil3\_mean vs Slug, Sign Corrected



Right In: 175.537+/-0.000

$\chi^2/\text{NDF}$ : 95726276788203913105887314540463390720.0/16

Left Out: 491.516+/-0.000

$\chi^2/\text{NDF}$ : 9871902777330719080606534586752565248.0/1

Right Out: -133.524+/-0.000

$\chi^2/\text{NDF}$ : 76029583873433989388564211432616361984.0/17

Left In: -725.801+/-0.000

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

Left: 82.376+/-0.000  $\chi^2/\text{NDF}$ : 89560351075067709

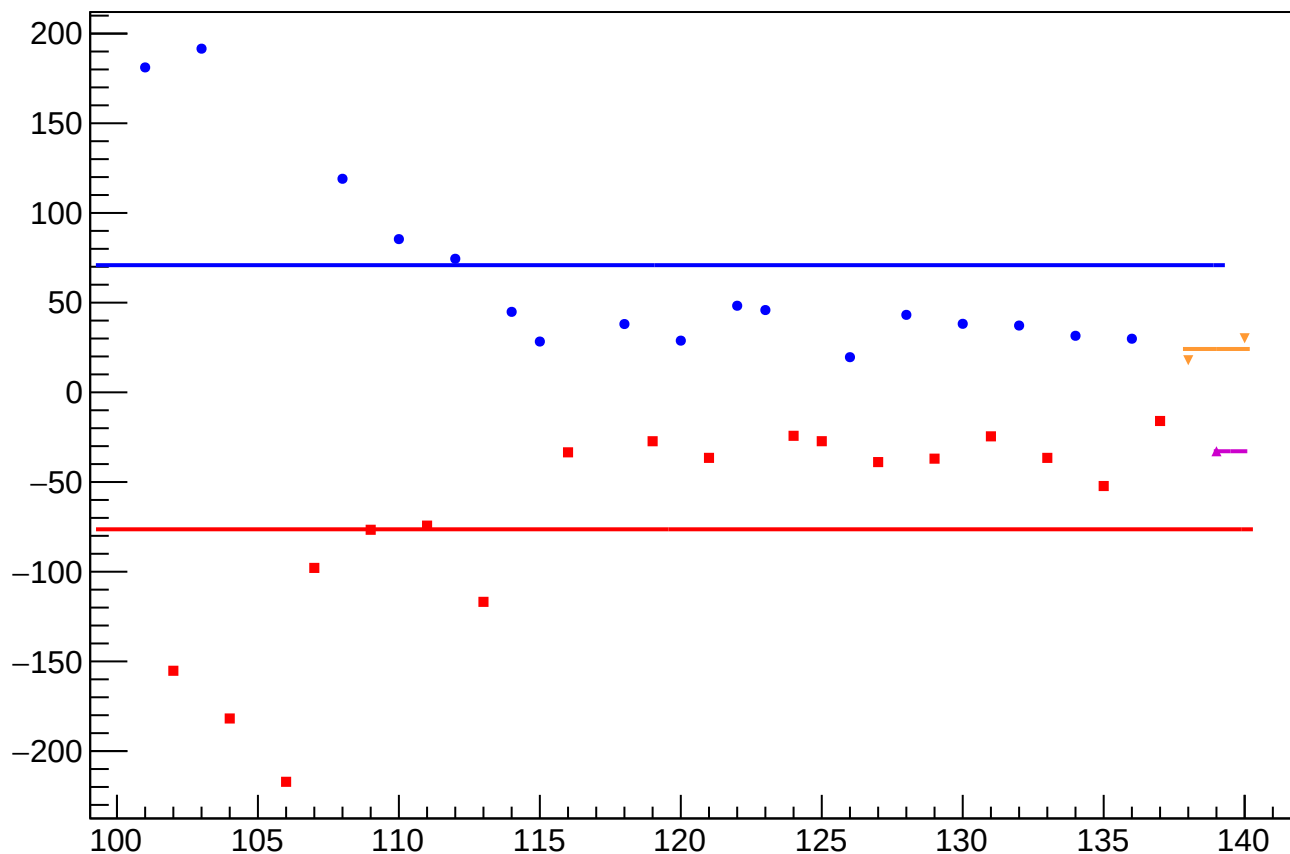
Right: 18.704+/-0.000  $\chi^2/\text{NDF}$ : 2053948365154779

In: 81.333+/-0.000  $\chi^2/\text{NDF}$ : 154653878270590343

Out: -19.231+/-0.000  $\chi^2/\text{NDF}$ : 1369793471353937

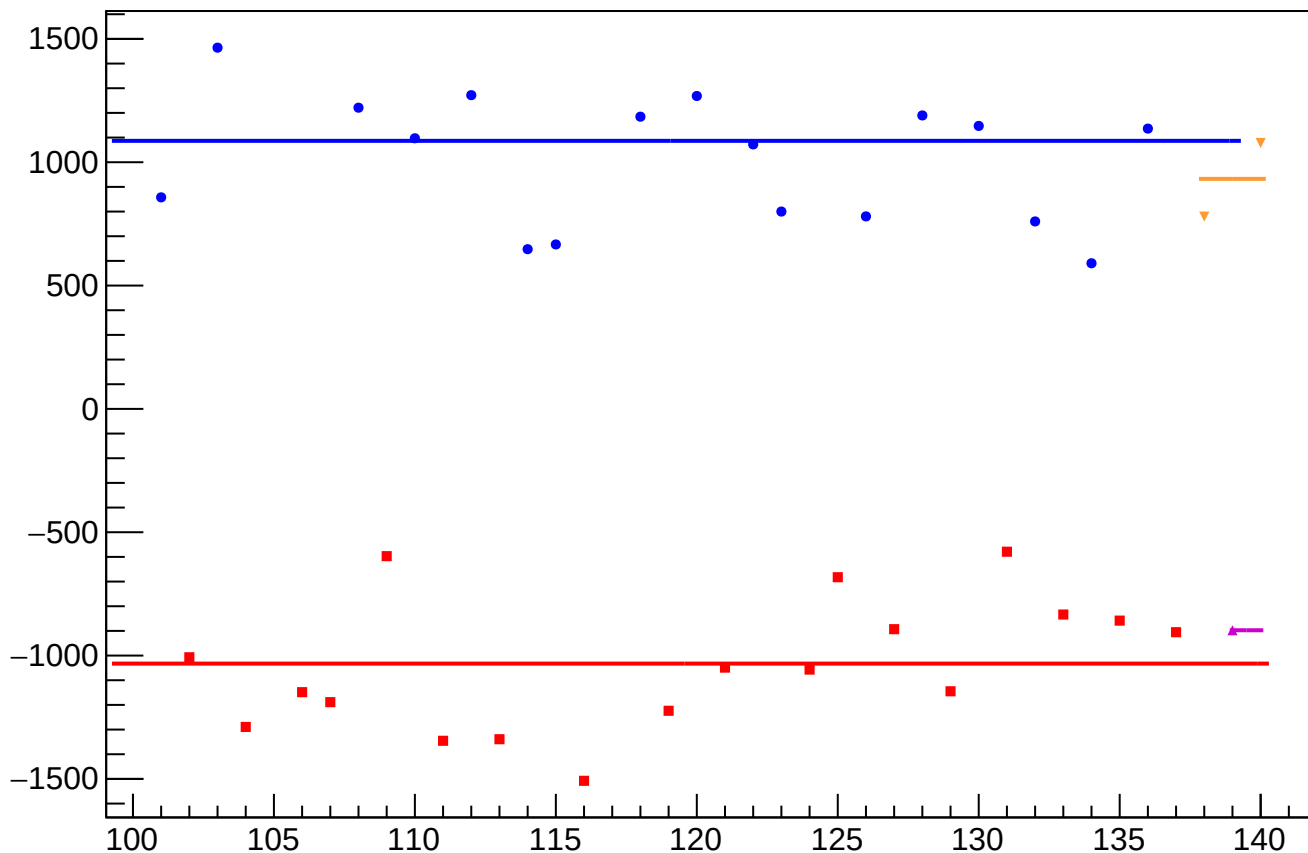
All: 28.004+/-0.000  $\chi^2/\text{NDF}$ : 2957895310836

dit\_sam1\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 70.892+/-0.000  $\chi^2/\text{NDF}$ : 2275734493854200628376973265629872128.0/16  
 Left Out: 24.171+/-0.000  $\chi^2/\text{NDF}$ : 6004196458786379369665537320681472.0/1  
 Right Out: -76.360+/-0.000  $\chi^2/\text{NDF}$ : 2382375226603203691068269213188620288.0/17  
 Left In: -32.845+/-0.000  $\chi^2/\text{NDF}$ : 4089.5/0  
 All: -2.540+/-0.000  $\chi^2/\text{NDF}$ : 1249121210732

dit\_sam1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

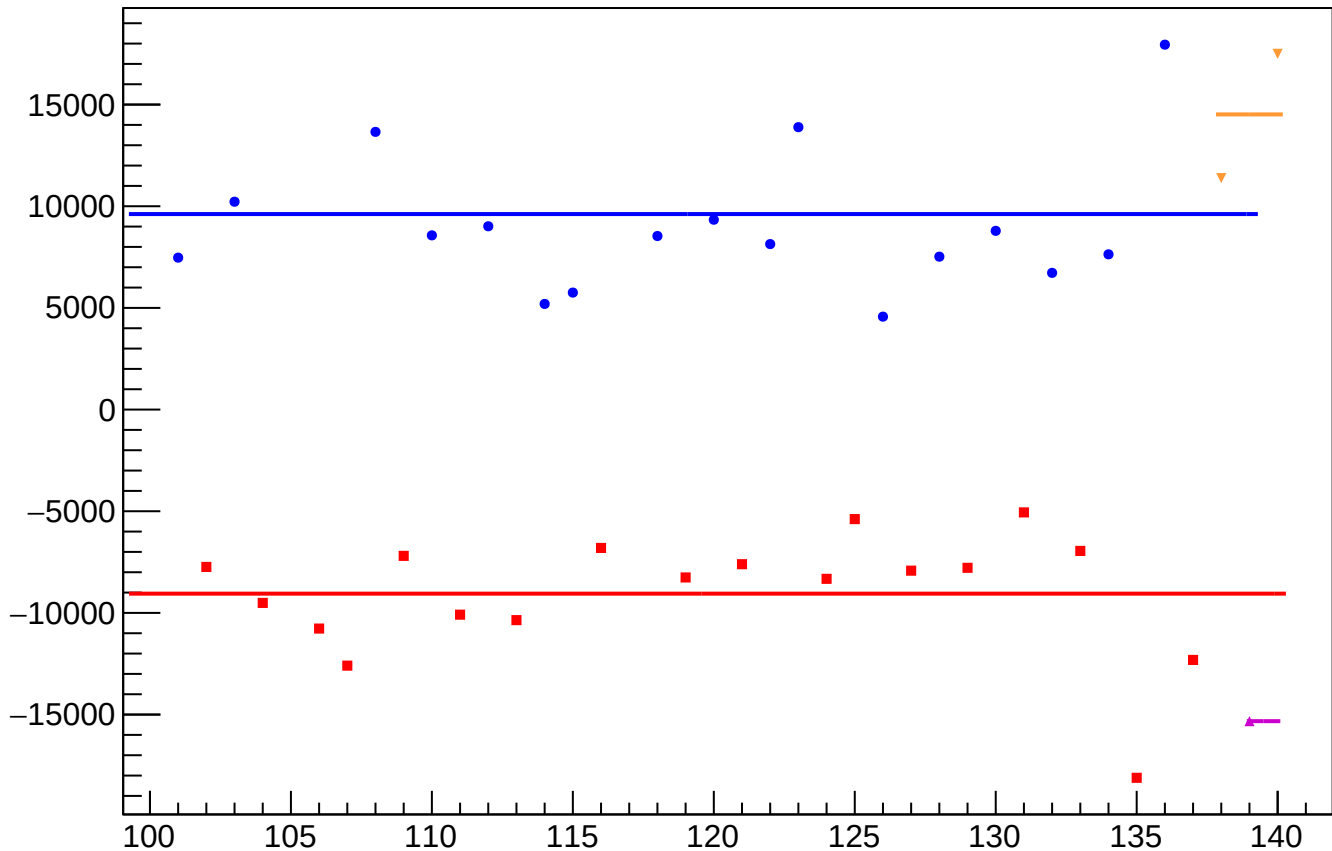
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_sam2\_coil3\_mean vs Slug, Sign Corrected



Right In: 9614.932+/-0.000

Left Out: 14515.798+/-0.000

Right Out: -9052.441+/-0.000

Left In: -15324.021+/-0.000

$\chi^2/\text{NDF}$ : 9450588438014082769578324832201526476800.0/16

$\chi^2/\text{NDF}$ : 1493264178543407498737863621735132168192.0/1

$\chi^2/\text{NDF}$ : 6723672544856808135538254172135519944704.0/17

$\chi^2/\text{NDF}$ : 268006518.5/0

Left: 4486.647+/-0.000  $\chi^2/\text{NDF}$ : 493761516889136

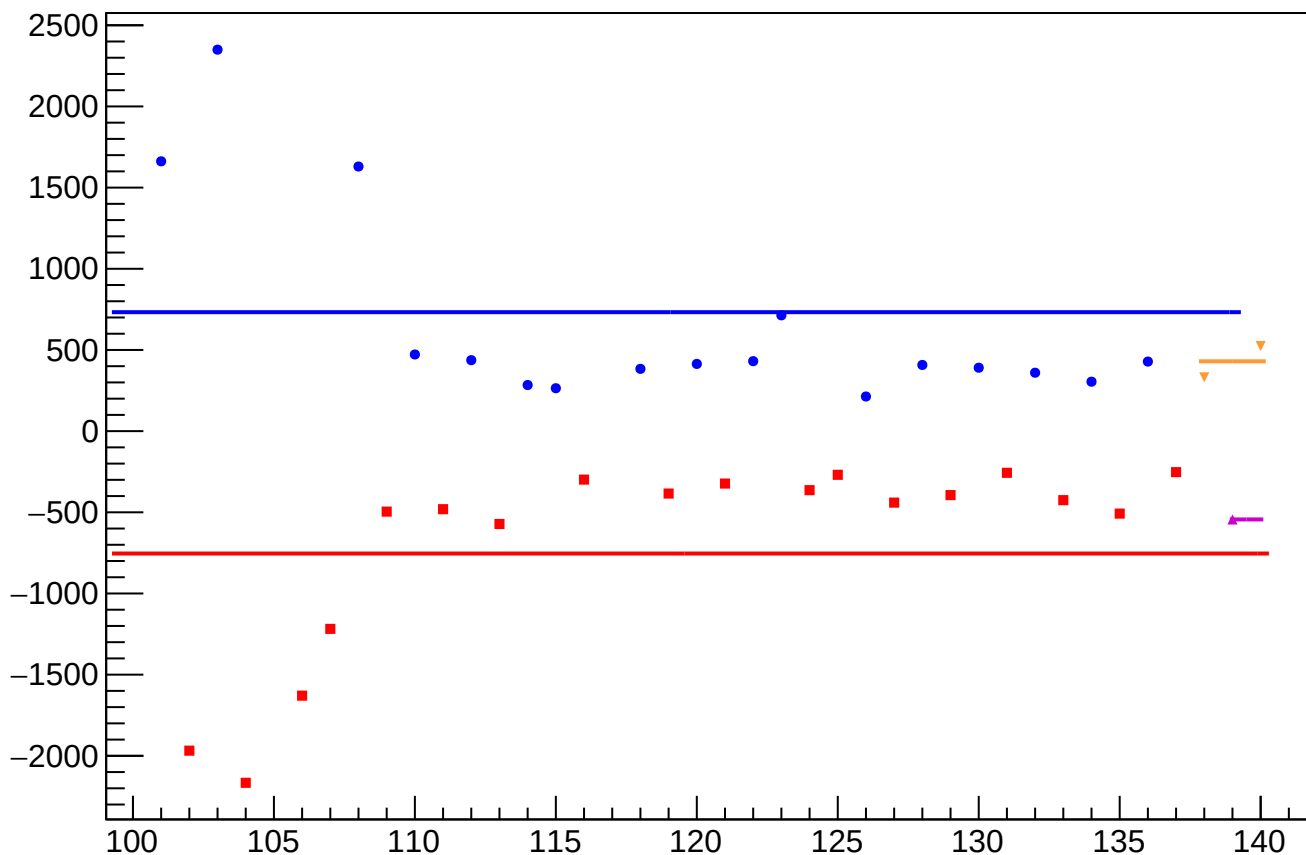
Right: 142.135+/-0.000  $\chi^2/\text{NDF}$ : 138895846085012

In: 7008.410+/-0.000  $\chi^2/\text{NDF}$ : 5456333239487696

Out: -4742.820+/-0.000  $\chi^2/\text{NDF}$ : 80839611414430

All: 776.697+/-0.000  $\chi^2/\text{NDF}$ : 192156417772

dit\_sam2\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 732.742+/-0.000

$\chi^2/\text{NDF}$ : 301740459340268060292037793871684435968.0/16

Left: 102.723+/-0.000  $\chi^2/\text{NDF}$ : 5250601069123136

Right: -21.652+/-0.000  $\chi^2/\text{NDF}$ : 136826335333085

Left Out: 430.104+/-0.000

$\chi^2/\text{NDF}$ : 1483868691598542315726028798162894848.0/1

In: 599.306+/-0.000  $\chi^2/\text{NDF}$ : 4199679621589632

Right Out: -753.888+/-0.000

$\chi^2/\text{NDF}$ : 288199108578840040054796930815893700608.0/17

Out: -537.387+/-0.000  $\chi^2/\text{NDF}$ : 472963203636200

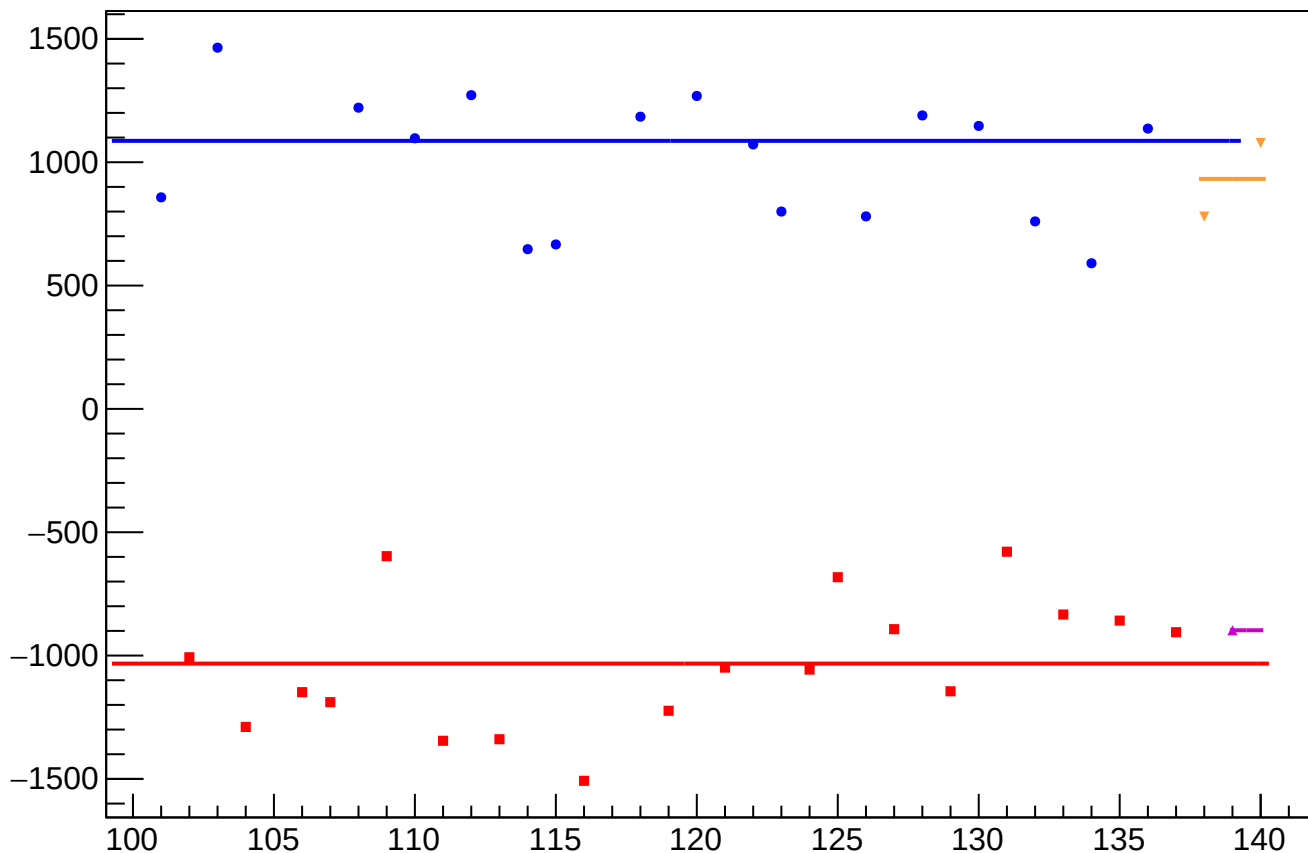
Left In: -543.955+/-0.000

$\chi^2/\text{NDF}$ : 1046900.5/0

All: -3.485+/-0.000

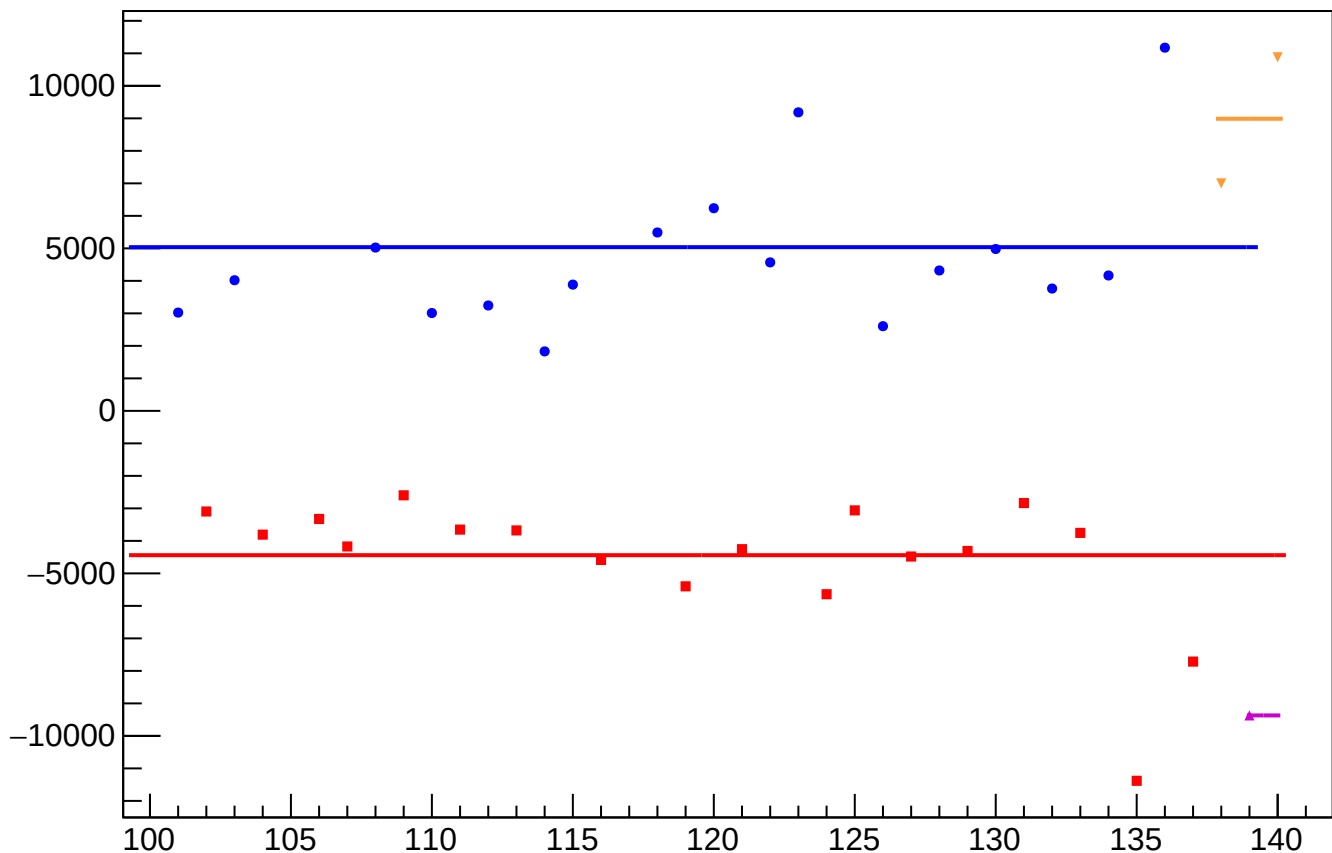
$\chi^2/\text{NDF}$ : 1423952890953

dit\_sam2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



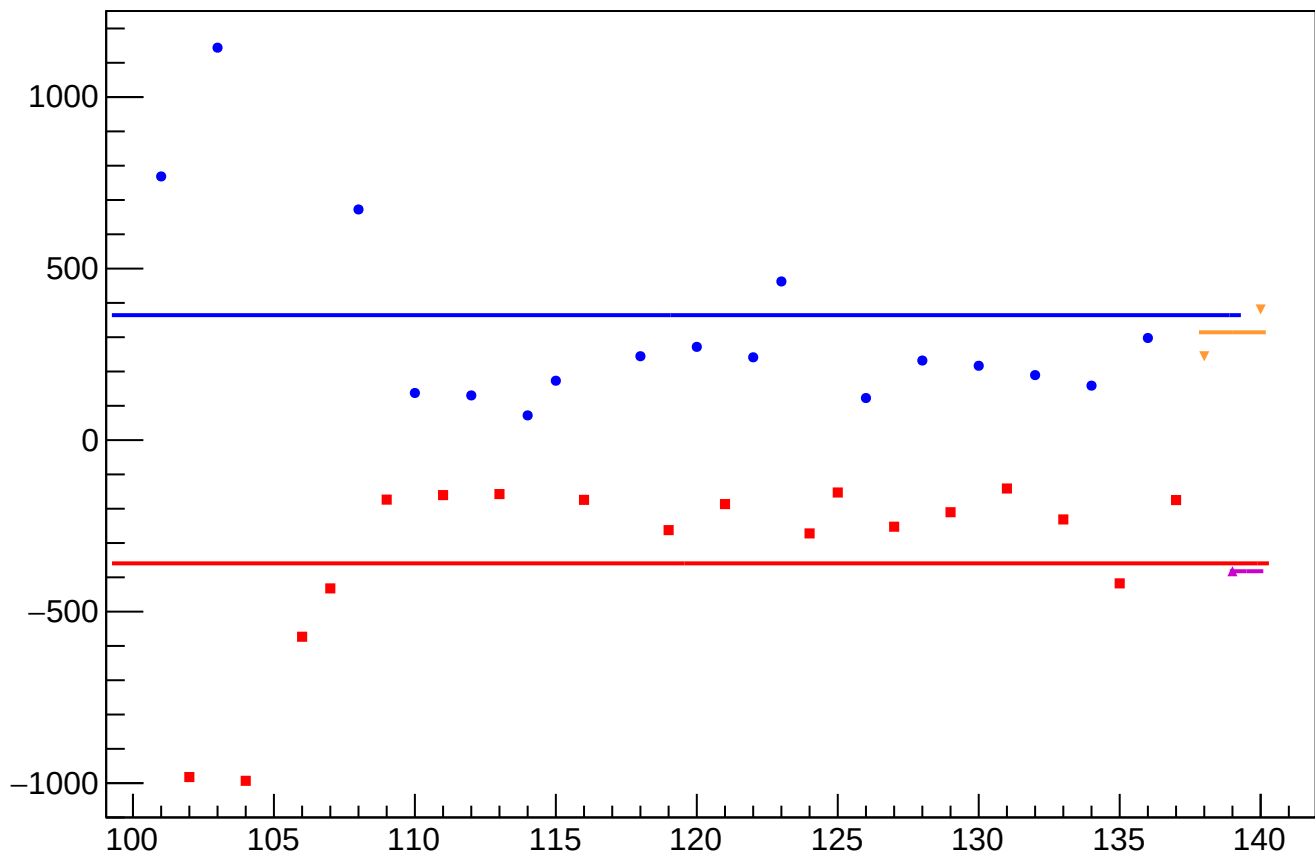
Right In: 1086.695 $\pm$ 0.000  $\chi^2$ /NDF: 34612834720892896264590202148866752512.0/16  
 Left Out: 932.500 $\pm$ 0.000  $\chi^2$ /NDF: 3563332707942458918492327433839050752.0/1  
 Right Out: -1032.544 $\pm$ 0.000  $\chi^2$ /NDF: 47614887029691398867923382029973979136.0/17  
 Left In: -897.407 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 56.004 $\pm$ 0.000  $\chi^2$ /NDF: 1866820745271

# dit\_sam3\_coil3\_mean vs Slug, Sign Corrected



Right In: 5037.073+/-0.000  $\chi^2/\text{NDF}$ : 4548828903802726251449084375770641465344.0/16  
 Left Out: 8988.140+/-0.000  $\chi^2/\text{NDF}$ : 601595433066775719397328968994302984192.0/1  
 Right Out: -4439.378+/-0.000  $\chi^2/\text{NDF}$ : 3162947435976288372848793793706623762432.0/17  
 Left In: -9369.597+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 606.508+/-0.000  $\chi^2/\text{NDF}$ : 594427370789

dit\_sam3\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 364.277+/-0.000

$\chi^2/\text{NDF}$ : 63824164232416453329464402315619336192.0/16

Left Out: 314.323+/-0.000

$\chi^2/\text{NDF}$ : 743886442061099868356755032836669440.0/1

Right Out: -359.283+/-0.000

$\chi^2/\text{NDF}$ : 58838911094170702852650084457083043840.0/17

Left In: -382.235+/-0.000

$\chi^2/\text{NDF}$ : 261725.1/0

Left: 80.210+/-0.000  $\chi^2/\text{NDF}$ : 26835612015581545

Right: -2.895+/-0.000  $\chi^2/\text{NDF}$ : 3070385632196005

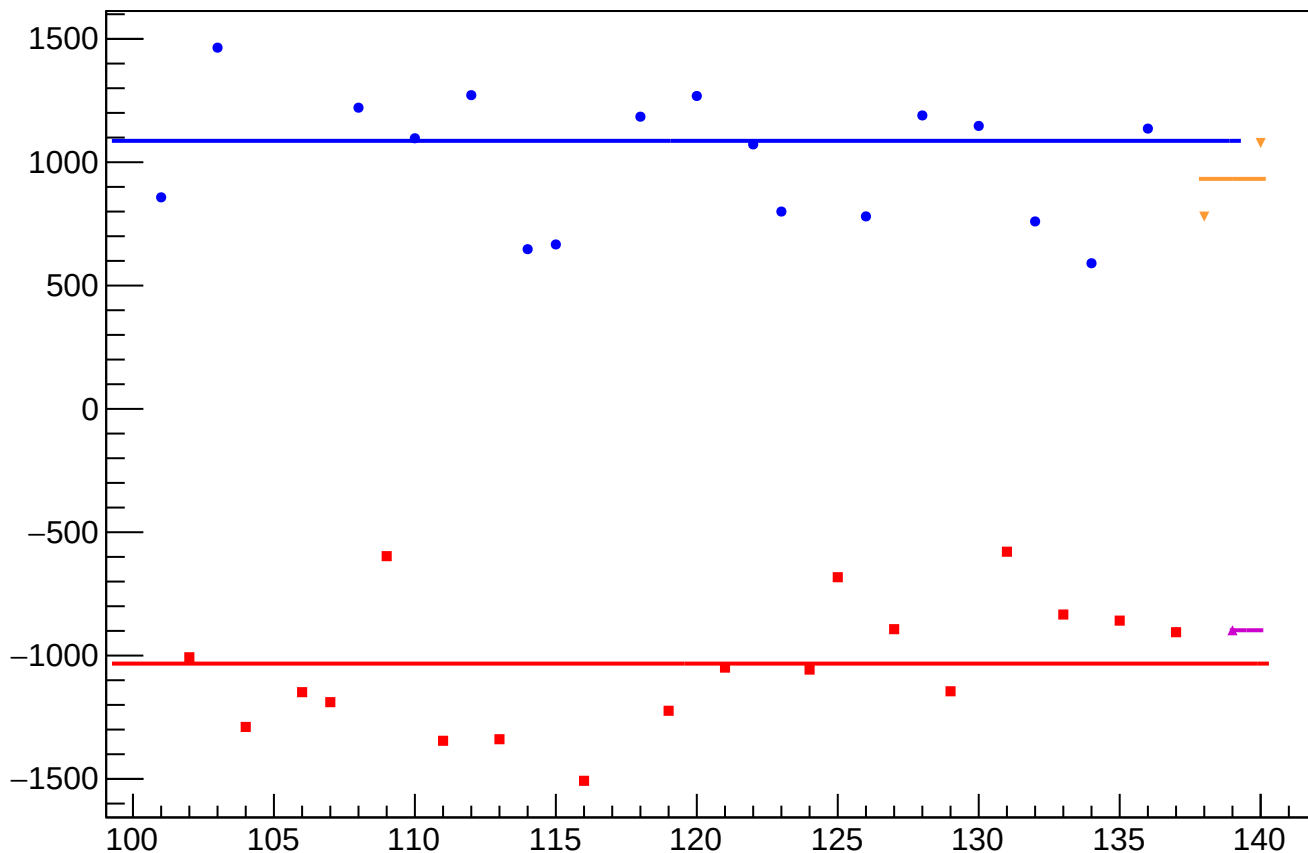
In: 286.255+/-0.000  $\chi^2/\text{NDF}$ : 10424607423130422

Out: -236.109+/-0.000  $\chi^2/\text{NDF}$ : 118906626306390

All: 9.244+/-0.000  $\chi^2/\text{NDF}$ : 33529550807439



dit\_sam3\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

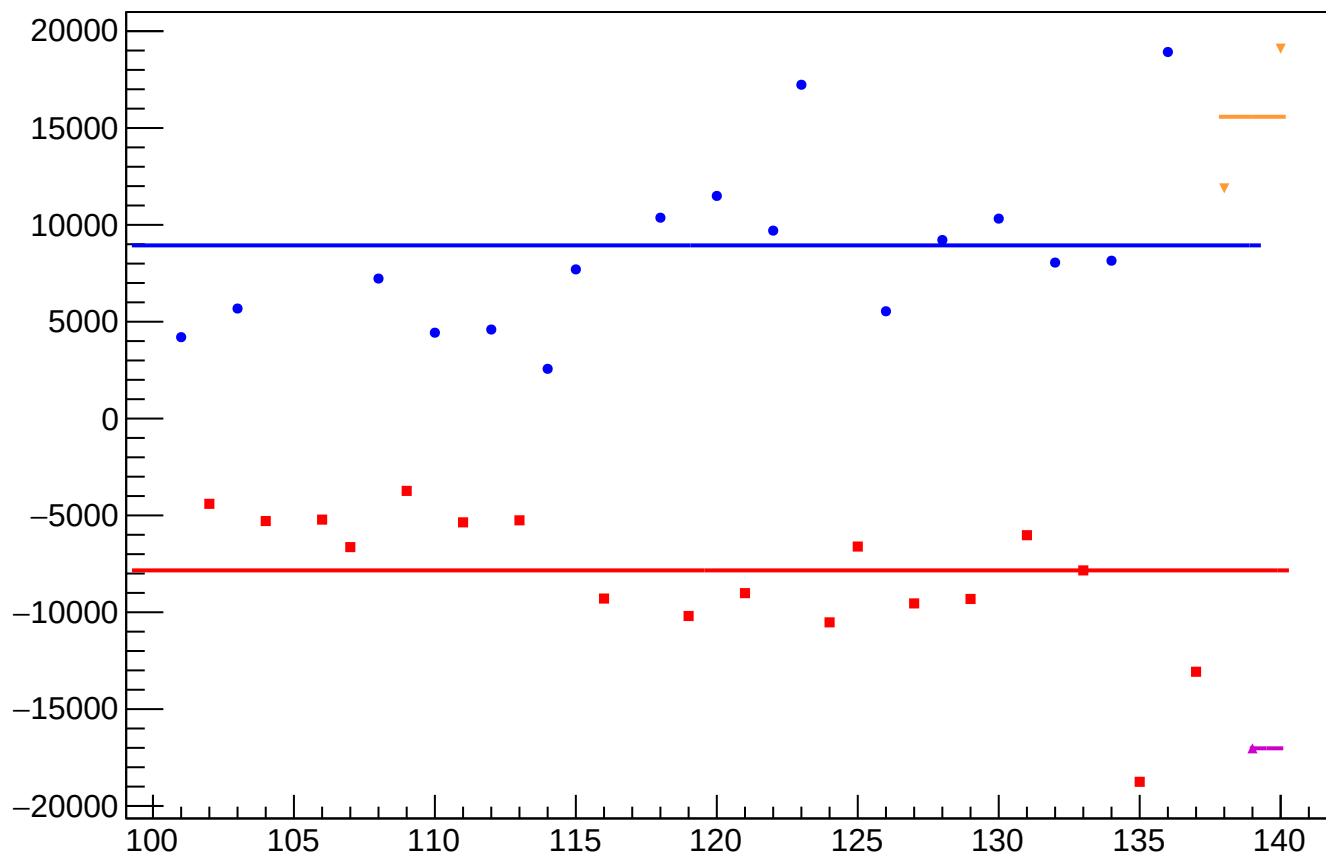
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_sam4\_coil3\_mean vs Slug, Sign Corrected



Right In: 8940.709+/-0.000

$\chi^2/\text{NDF}$ : 14252298982323079680975069701388839682048.0/16

Left Out: 15580.201+/-0.000

$\chi^2/\text{NDF}$ : 2079201073866639133134562014706198904832.0/1

Right Out: -7838.226+/-0.000

$\chi^2/\text{NDF}$ : 9846913896882704140251290027429415878656.0/17

Left In: -17023.628+/-0.000

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

Left: 4622.067+/-0.000  $\chi^2/\text{NDF}$ : 592435362367628

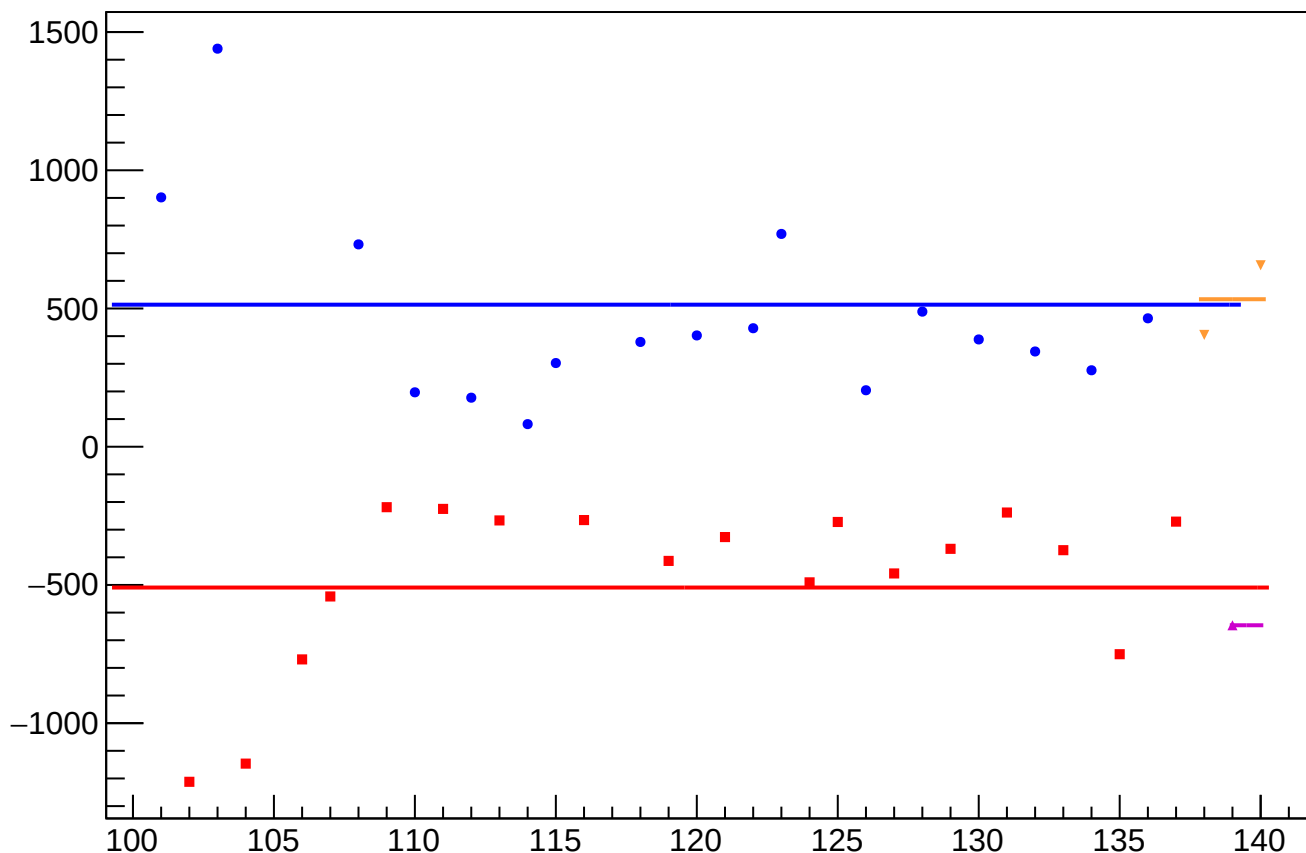
Right: 426.203+/-0.000  $\chi^2/\text{NDF}$ : 123247064678124

In: 6227.017+/-0.000  $\chi^2/\text{NDF}$ : 6315099221500519

Out: -3556.000+/-0.000  $\chi^2/\text{NDF}$ : 83628467462225

All: 1039.054+/-0.000  $\chi^2/\text{NDF}$ : 18611375616

dit\_sam4\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 513.843+/-0.000  $\chi^2/\text{NDF}$ : 82523650579604289792107532326249955328.0/16

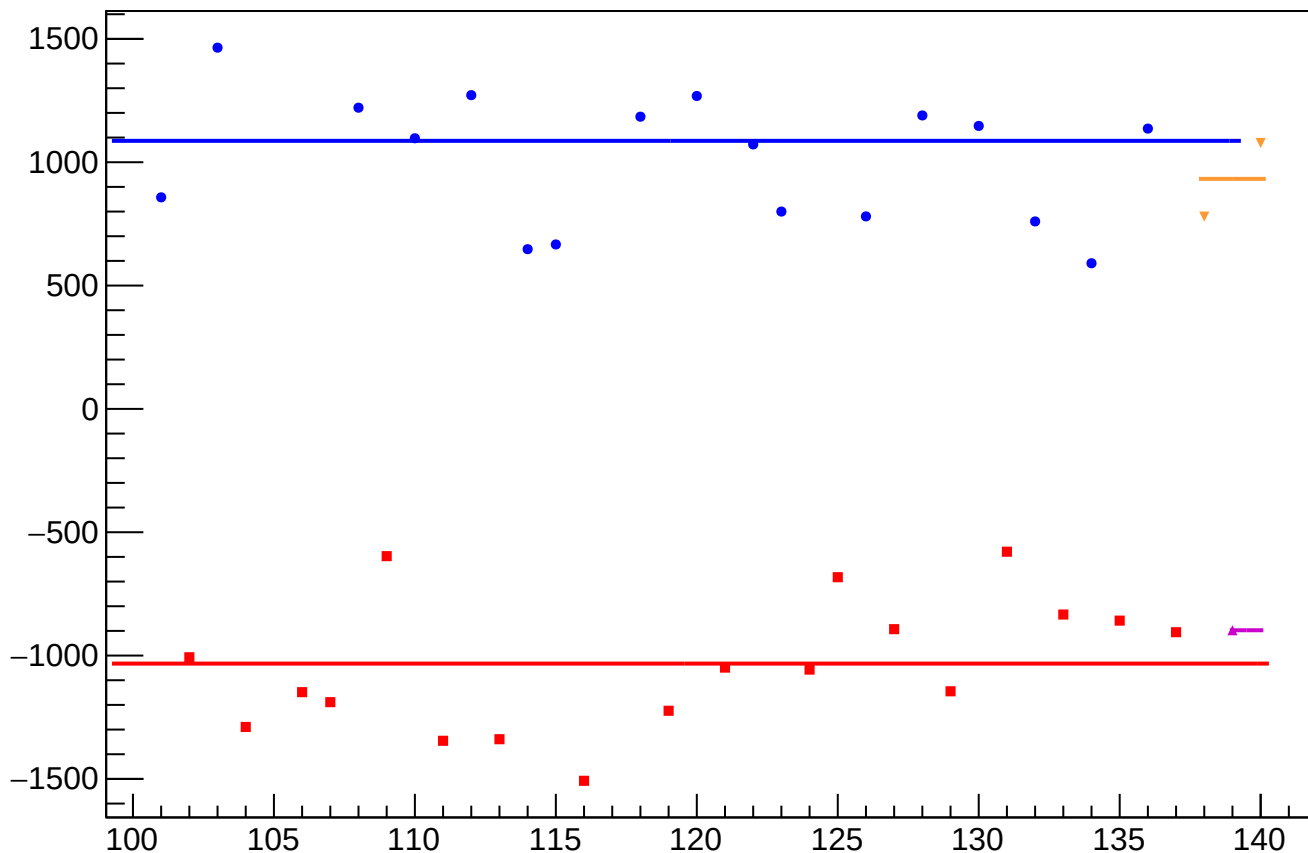
Left Out: 533.546+/-0.000  $\chi^2/\text{NDF}$ : 2536234433561893341072665107408879616.0/1

Right Out: -509.362+/-0.000  $\chi^2/\text{NDF}$ : 75678926781858707627162203023281750016.0/17

Left In: -645.820+/-0.000  $\chi^2/\text{NDF}$ : 1046900.5/0

All: 15.436+/-0.000  $\chi^2/\text{NDF}$ : 6084234093504

dit\_sam4\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

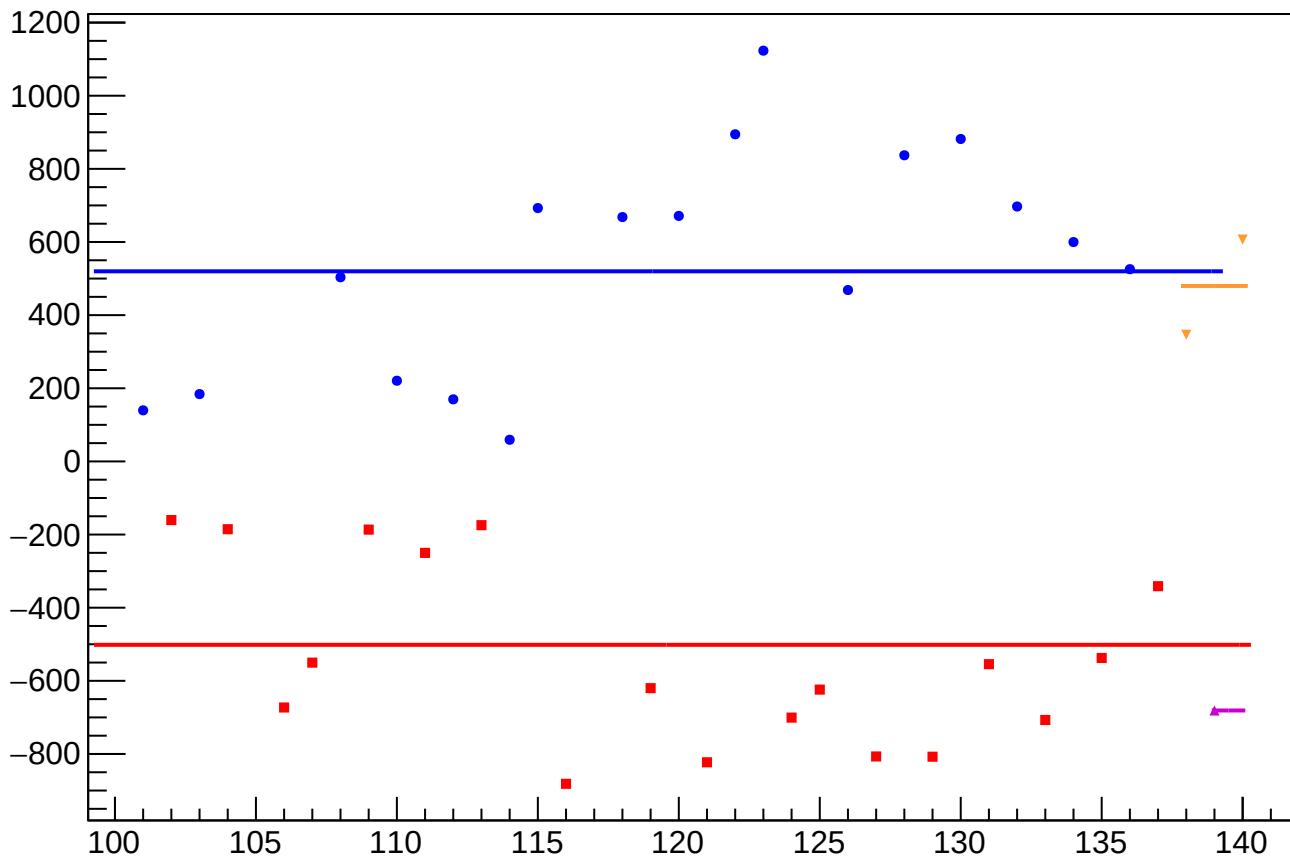
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_sam5\_coil3\_mean vs Slug, Sign Corrected



Right In: 519.845+/-0.000  $\chi^2/\text{NDF}$ : 50391712122122241983004017290687545344.0/16

Left Out: 479.770+/-0.000  $\chi^2/\text{NDF}$ : 2708783666555992768404175431223214080.0/1

Right Out: -501.527+/-0.000  $\chi^2/\text{NDF}$ : 45593938816418547057443342639695921152.0/17

Left In: -681.066+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 89.614+/-0.000  $\chi^2/\text{NDF}$ : 7517396121928164

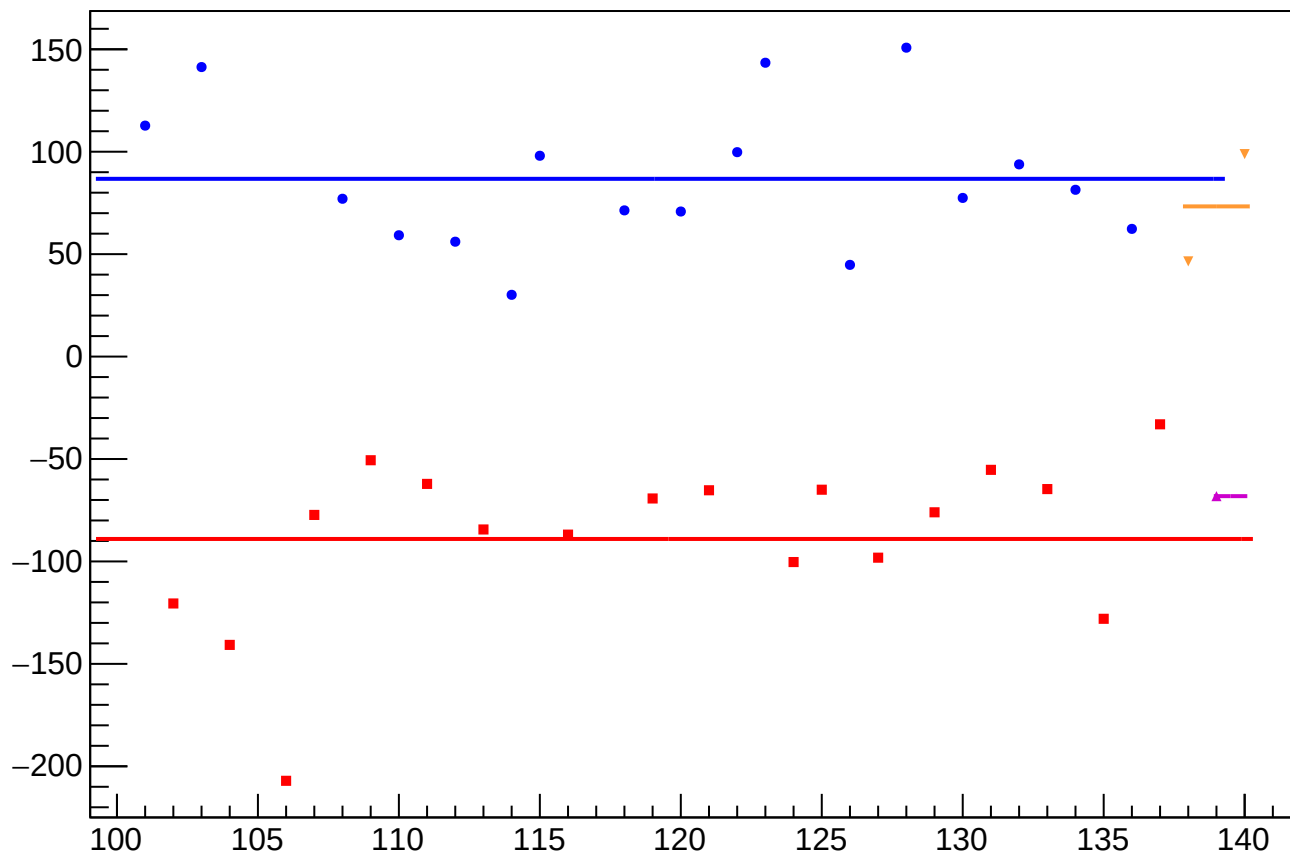
Right: 1.548+/-0.000  $\chi^2/\text{NDF}$ : 46337157544995128

In: 394.331+/-0.000  $\chi^2/\text{NDF}$ : 15499958720429980

Out: -322.090+/-0.000  $\chi^2/\text{NDF}$ : 174200680019600

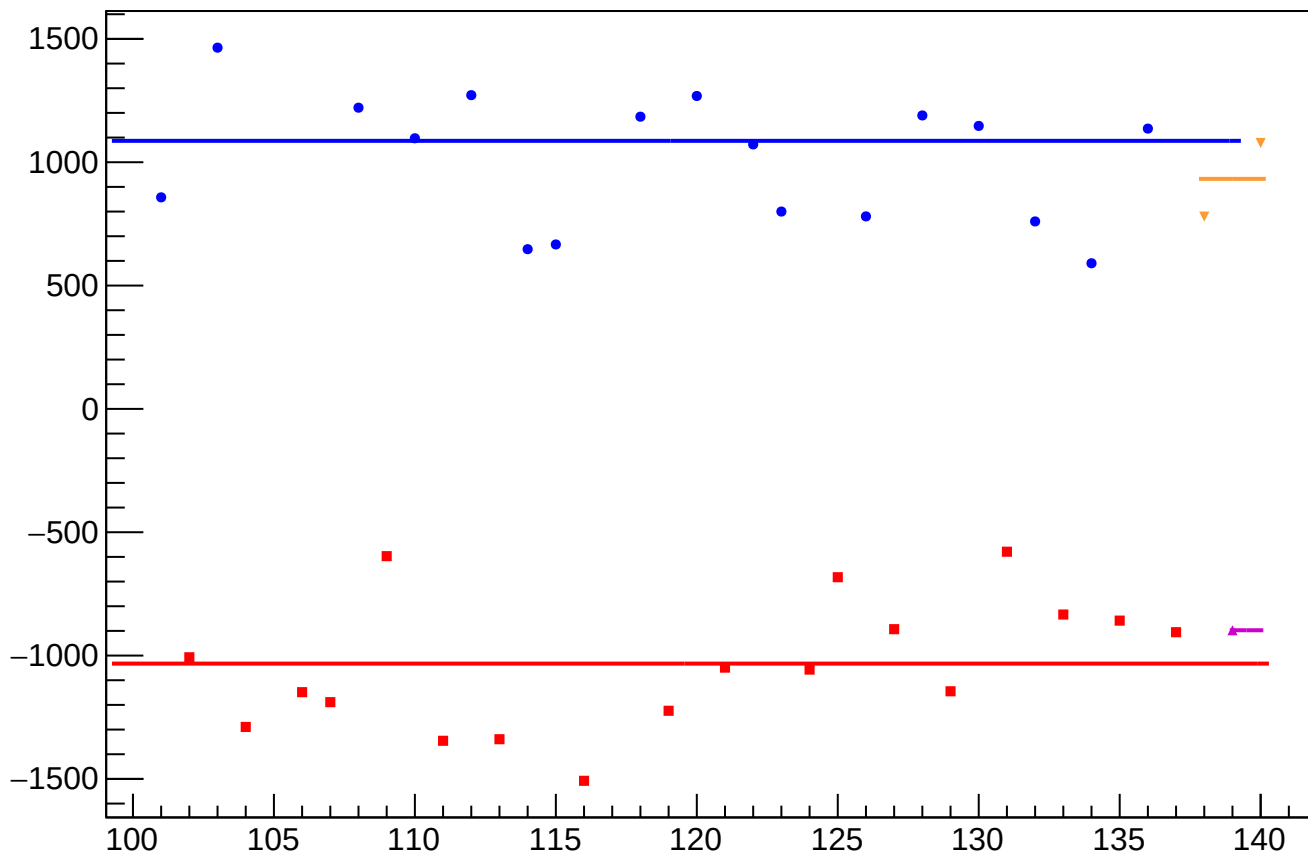
All: 14.411+/-0.000  $\chi^2/\text{NDF}$ : 5401416276257

# dit\_sam5\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 86.768 +/- 0.000  $\chi^2/\text{NDF}$ : 727044528904958232730586242846031872.0/16  
 Left Out: 73.309 +/- 0.000  $\chi^2/\text{NDF}$ : 109615196949367240196307217096376320.0/1  
 Right Out: -89.028 +/- 0.000  $\chi^2/\text{NDF}$ : 1014702057025769592460755223634247680.0/17  
 Left In: -68.128 +/- 0.000  $\chi^2/\text{NDF}$ : 16357.8/0  
 All: 1.681 +/- 0.000  $\chi^2/\text{NDF}$ : 13974539800824

dit\_sam5\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

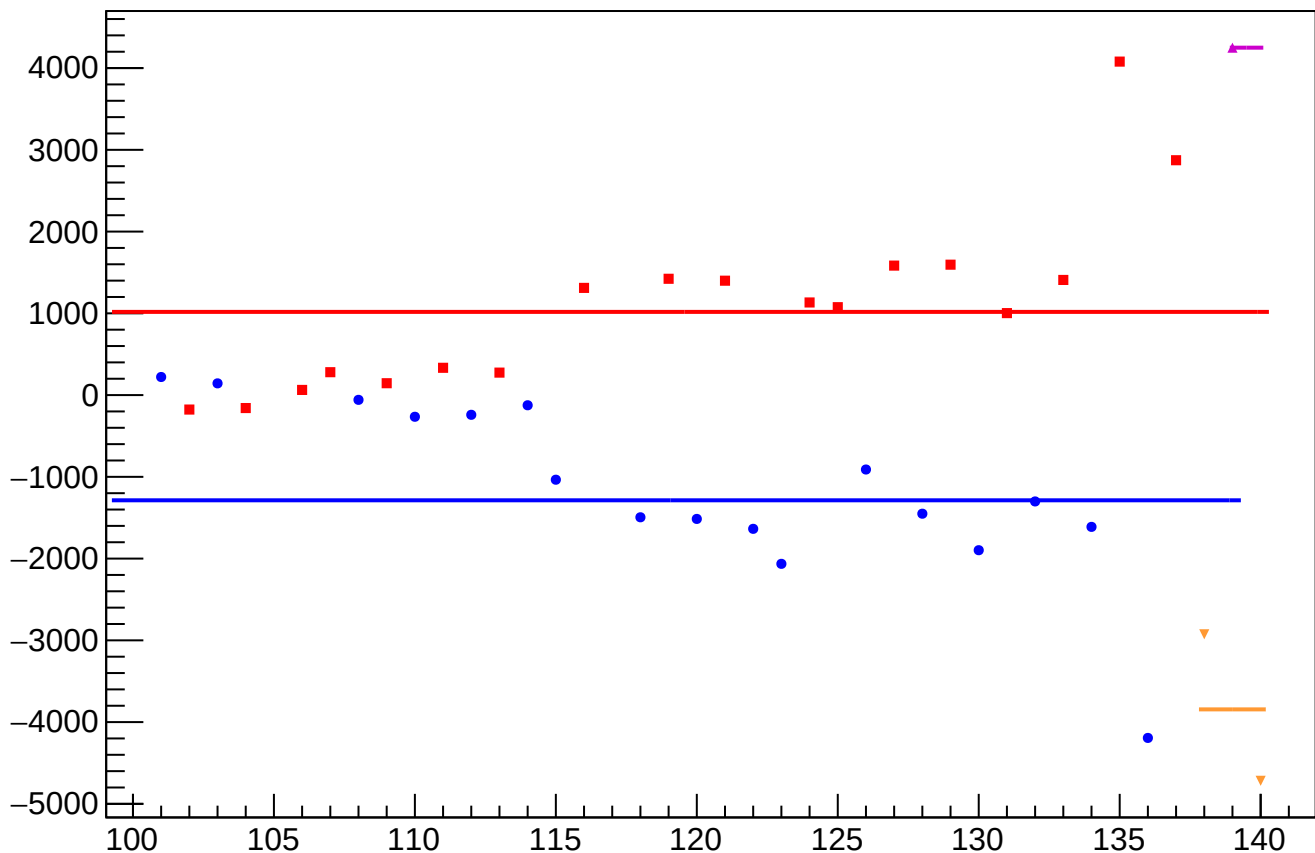
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

dit\_sam6\_coil3\_mean vs Slug, Sign Corrected



Right In: -1287.018+/-0.000

Left Out: -3844.476+/-0.000

Right Out: 1017.680+/-0.000

Left In: 4249.613+/-0.000

$\chi^2/\text{NDF}$ : 1204676715439313496734702006985495150592.0/16

$\chi^2/\text{NDF}$ : 128364657945073137704262952681010626560.0/1

$\chi^2/\text{NDF}$ : 852354346622995689266162288487263371264.0/17

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

Left: -1124.056+/-0.000  $\chi^2/\text{NDF}$ : 36514557497475

Right: -117.494+/-0.000  $\chi^2/\text{NDF}$ : 39276379731523

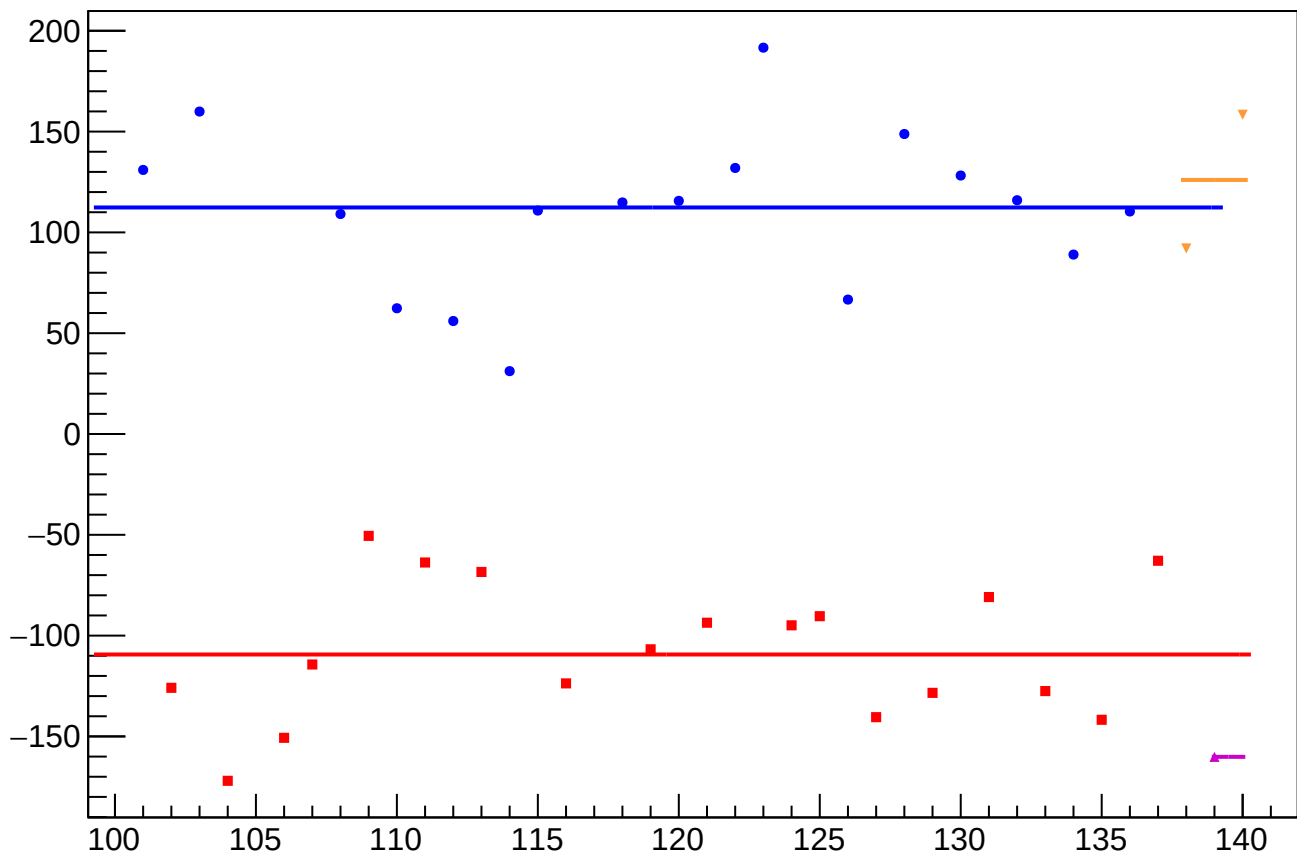
In: -708.351+/-0.000  $\chi^2/\text{NDF}$ : 3428160086561908

Out: 128.600+/-0.000  $\chi^2/\text{NDF}$ : 4071553423817783

All: -264.513+/-0.000  $\chi^2/\text{NDF}$ : 77876028821



dit\_sam6\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 112.364+/-0.000

$\chi^2/\text{NDF}$ : 704132882376699060399654305188020224.0/16

Left Out: 126.022+/-0.000

$\chi^2/\text{NDF}$ : 175745723052715773567054501633851392.0/1

Right Out: -109.364+/-0.000

$\chi^2/\text{NDF}$ : 838845293661778137888588246433136640.0/17

Left In: -160.128+/-0.000

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

Left: 29.847+/-0.000  $\chi^2/\text{NDF}$ : 45790223992470549

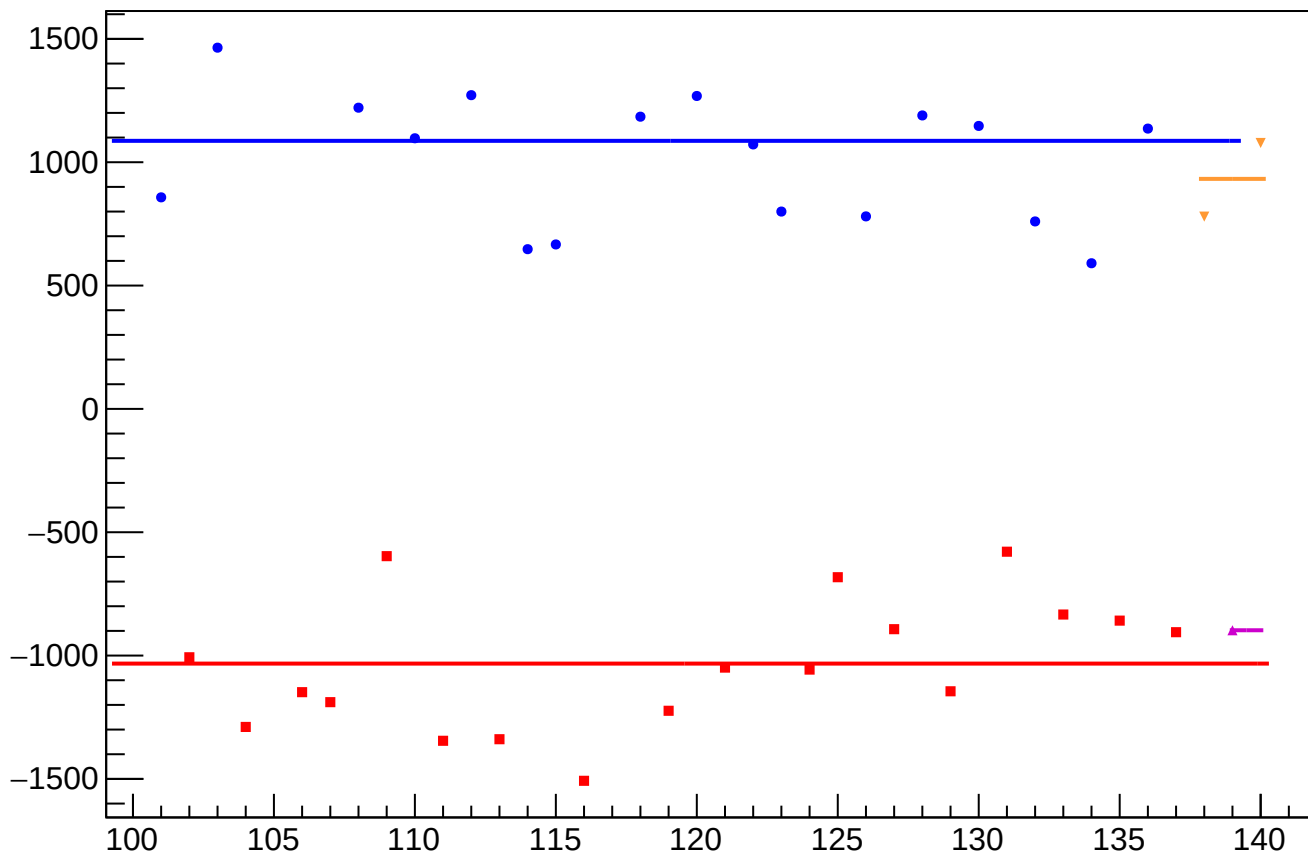
Right: -0.152+/-0.000  $\chi^2/\text{NDF}$ : 1885682581787099

In: 83.884+/-0.000  $\chi^2/\text{NDF}$ : 60899283018286385

Out: -66.322+/-0.000  $\chi^2/\text{NDF}$ : 8258591704152011

All: 4.229+/-0.000  $\chi^2/\text{NDF}$ : 23621060690229

dit\_sam6\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

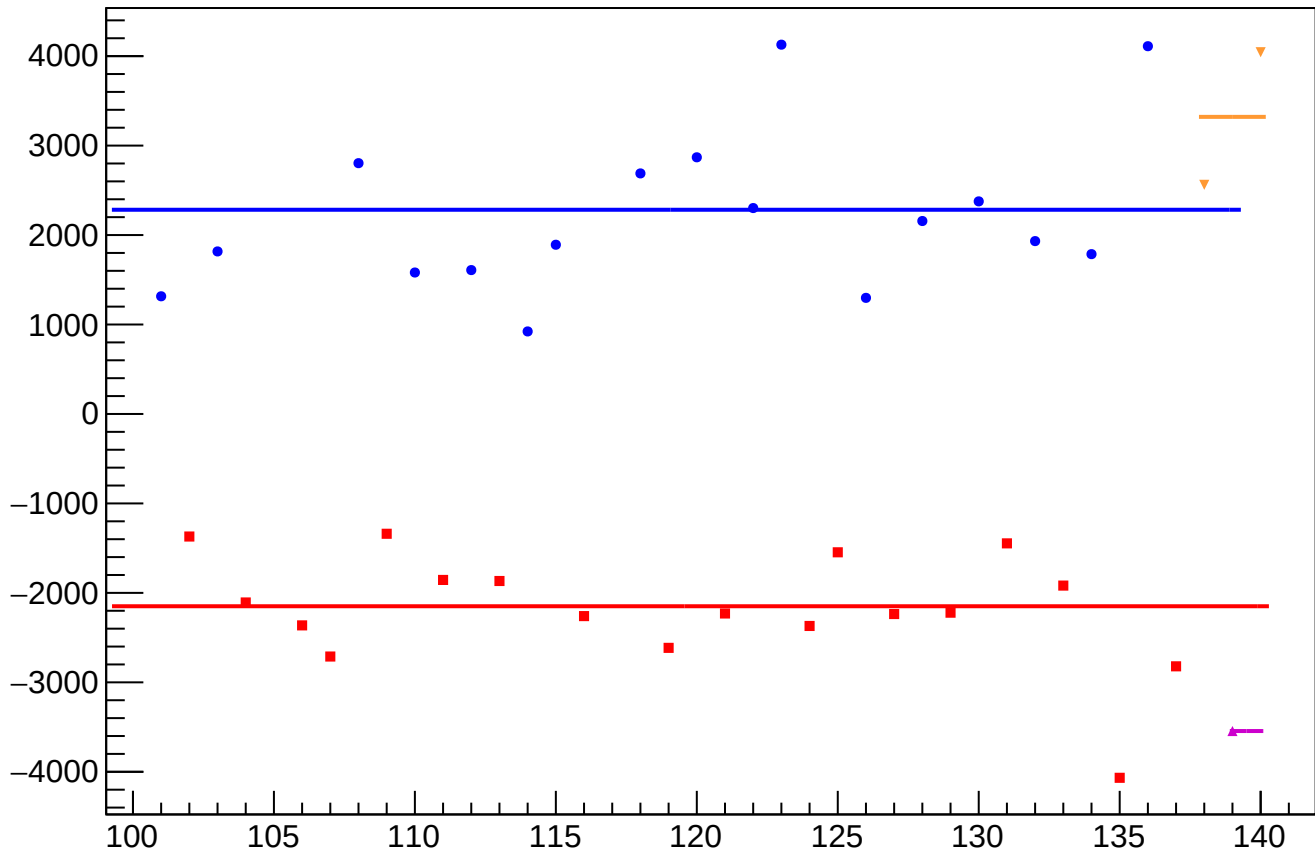
Out: -673.222+/-0.000

$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

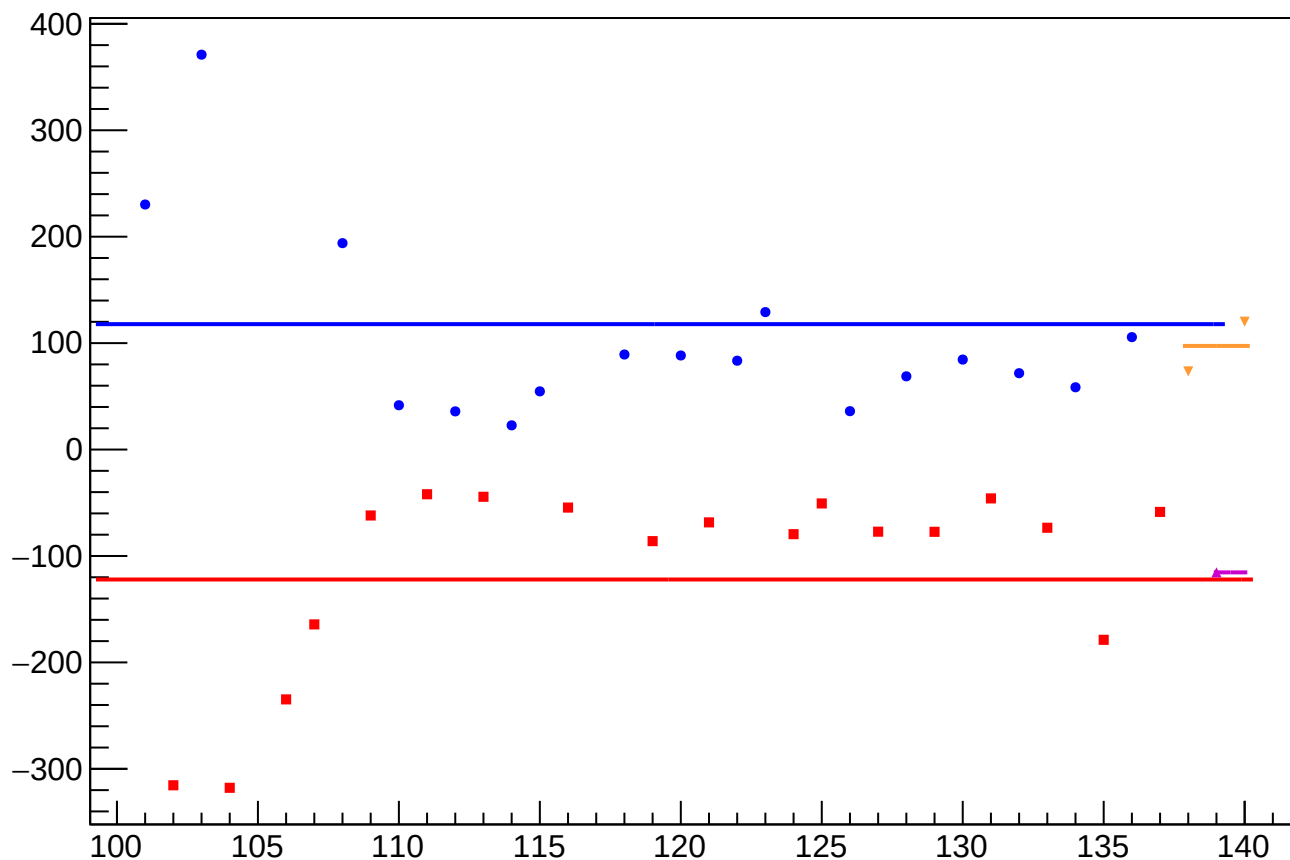
$\chi^2/\text{NDF}$ : 1866820745271

# dit\_sam7\_coil3\_mean vs Slug, Sign Corrected



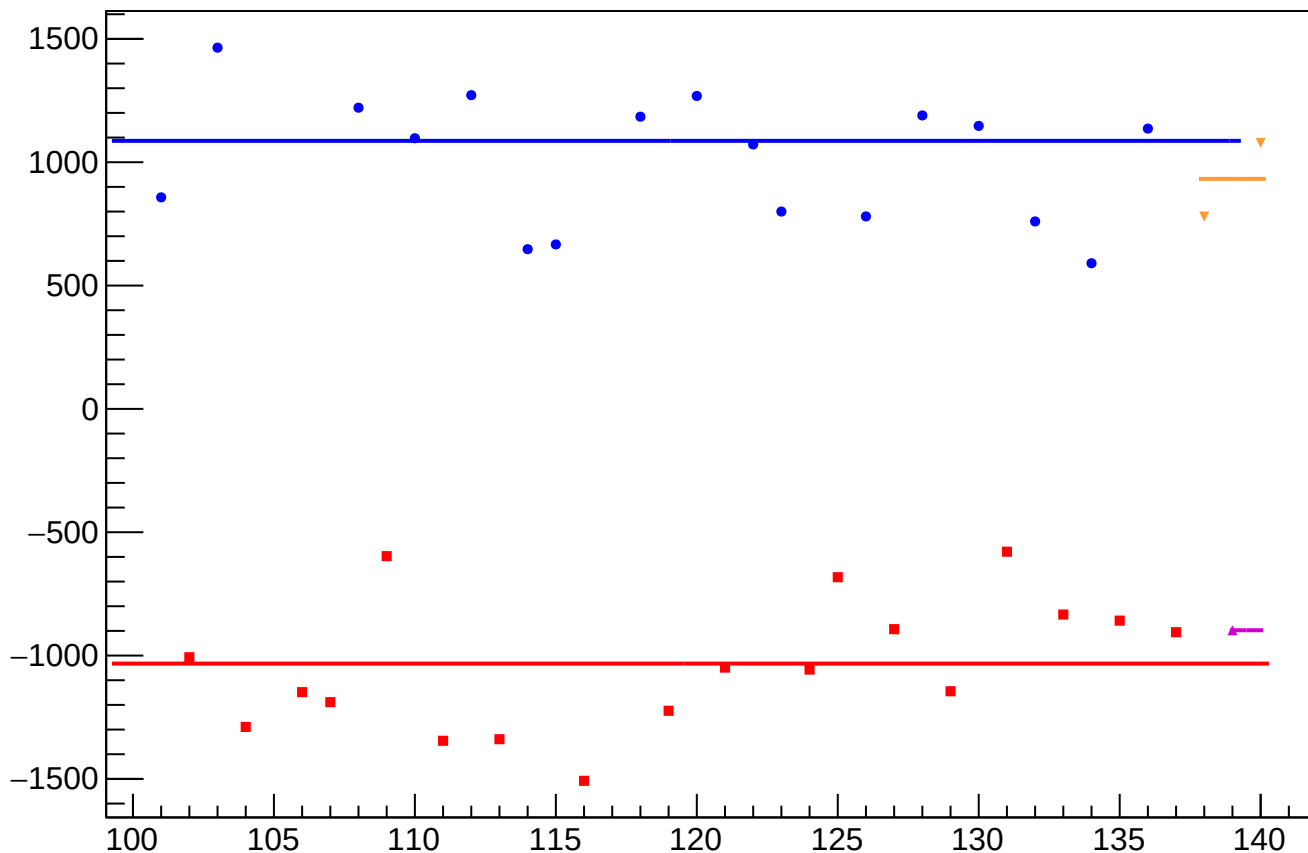
Right In: 2282.778+/-0.000  $\chi^2/\text{NDF}$ : 521869333583833068444115371437594771456.0/16  
 Left Out: 3321.102+/-0.000  $\chi^2/\text{NDF}$ : 87826002255158891531875485931731419136.0/1  
 Right Out: -2149.386+/-0.000  $\chi^2/\text{NDF}$ : 320631411360836158094549979591860027392.0/17  
 Left In: -3544.305+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 176.803+/-0.000  $\chi^2/\text{NDF}$ : 105807201107

dit\_sam7\_coil3\_err\_mean vs Slug, Sign Corrected



Left: 25.852 $\pm$ 0.000  $\chi^2$ /NDF: 2521351438847105  
 Right In: 117.825 $\pm$ 0.000  $\chi^2$ /NDF: 6199421197695716182570916449760575488.0/16  
 Left Out: 97.360 $\pm$ 0.000  $\chi^2$ /NDF: 87142638073036200138173355606933504.0/1  
 Right: -3.925 $\pm$ 0.000  $\chi^2$ /NDF: 3301778897697913  
 In: 93.450 $\pm$ 0.000  $\chi^2$ /NDF: 10144777350371293  
 Right Out: -122.099 $\pm$ 0.000  $\chi^2$ /NDF: 6546124684147045667679194482005245952.0/17  
 Out: -81.969 $\pm$ 0.000  $\chi^2$ /NDF: 1293009878528951  
 Left In: -115.398 $\pm$ 0.000  $\chi^2$ /NDF: 16357.8/0  
 All: 0.424 $\pm$ 0.000  $\chi^2$ /NDF: 35721611023249

dit\_sam7\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

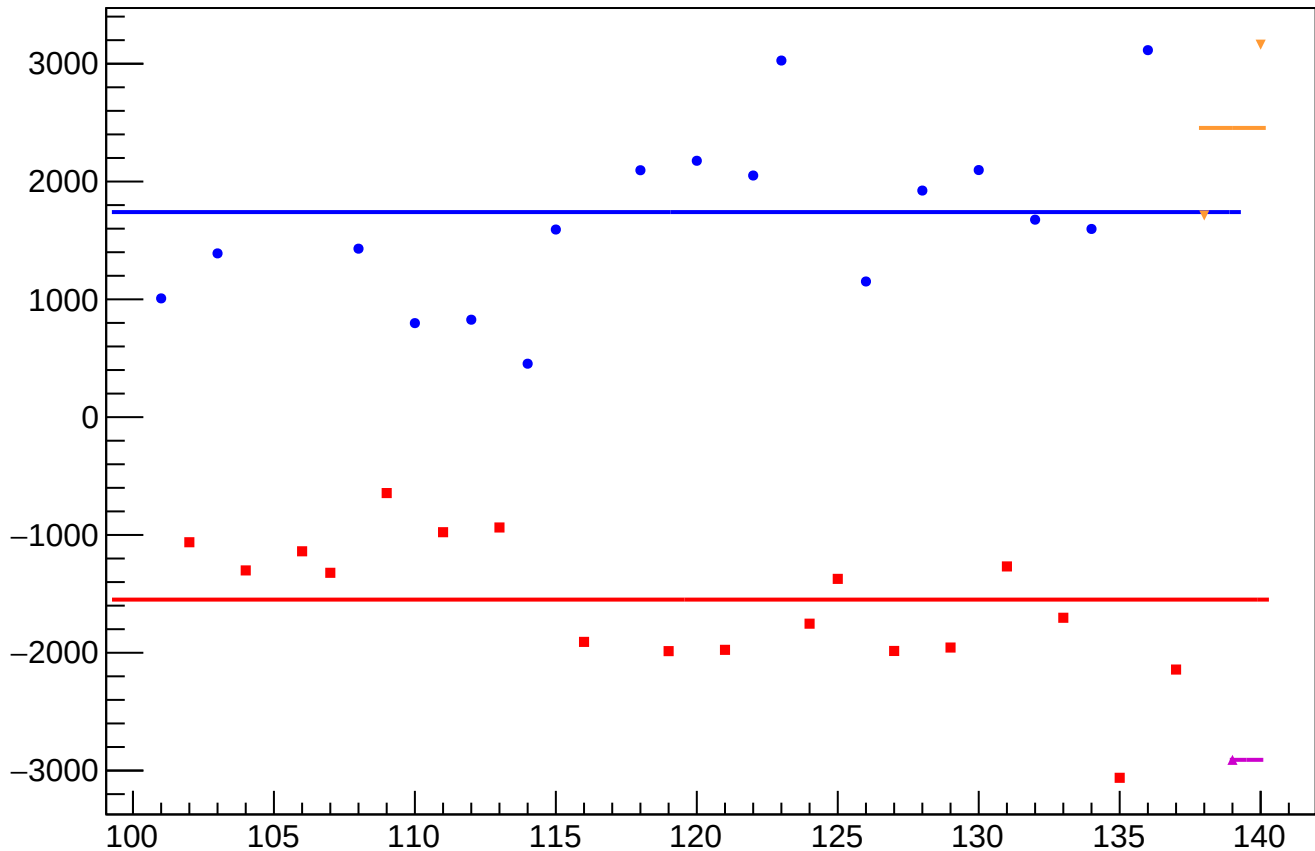
Left In: -897.407+/-0.000

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

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

# dit\_sam8\_coil3\_mean vs Slug, Sign Corrected



Right In: 1740.720+/-0.000

$\chi^2/\text{NDF}$ : 348962001897552007024222547428010622976.0/16

Left Out: 2455.065+/-0.000

$\chi^2/\text{NDF}$ : 84011286680049121290789014288254107648.0/1

Right Out: -1548.740+/-0.000

$\chi^2/\text{NDF}$ : 255013280564316736413287354207314116608.0/17

Left In: -2908.864+/-0.000

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

Left: 652.251+/-0.000  $\chi^2/\text{NDF}$ : 1631238098835261

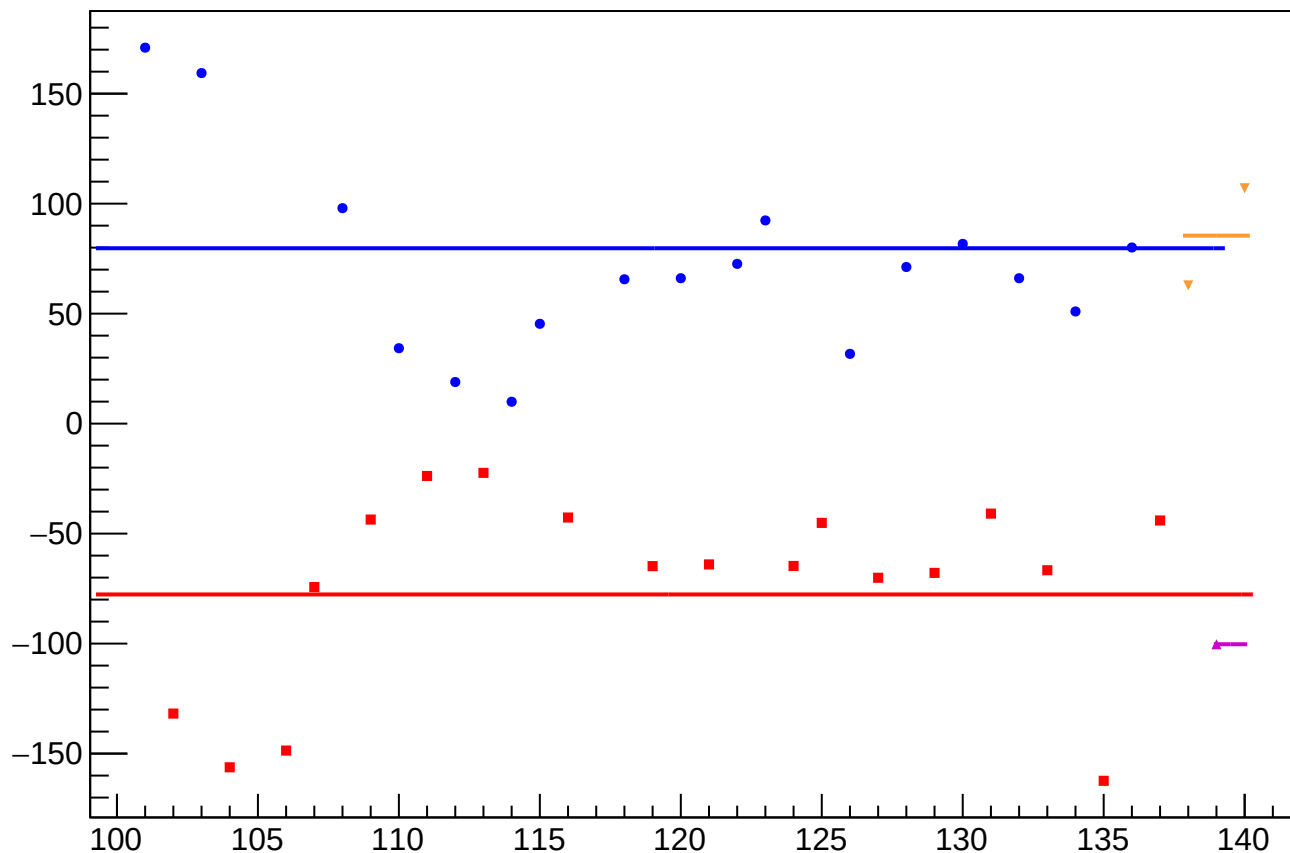
Right: 71.477+/-0.000  $\chi^2/\text{NDF}$ : 4414664584439319

In: 1254.763+/-0.000  $\chi^2/\text{NDF}$ : 1917051458106728

Out: -816.615+/-0.000  $\chi^2/\text{NDF}$ : 243489192155714

All: 156.305+/-0.000  $\chi^2/\text{NDF}$ : 611531859220

dit\_sam8\_coil3\_err\_mean vs Slug, Sign Corrected



Right In: 79.722+/-0.000

$\chi^2/\text{NDF}$ : 1349884201001122025991797772619087872.0/16

Left Out: 85.456+/-0.000

$\chi^2/\text{NDF}$ : 77958681571290556709716070450069504.0/1

Right Out: -77.658+/-0.000

$\chi^2/\text{NDF}$ : 1483793243606577649503828870787235840.0/17

Left In: -100.299+/-0.000

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

Left: 23.024+/-0.000  $\chi^2/\text{NDF}$ : 19334974641712776

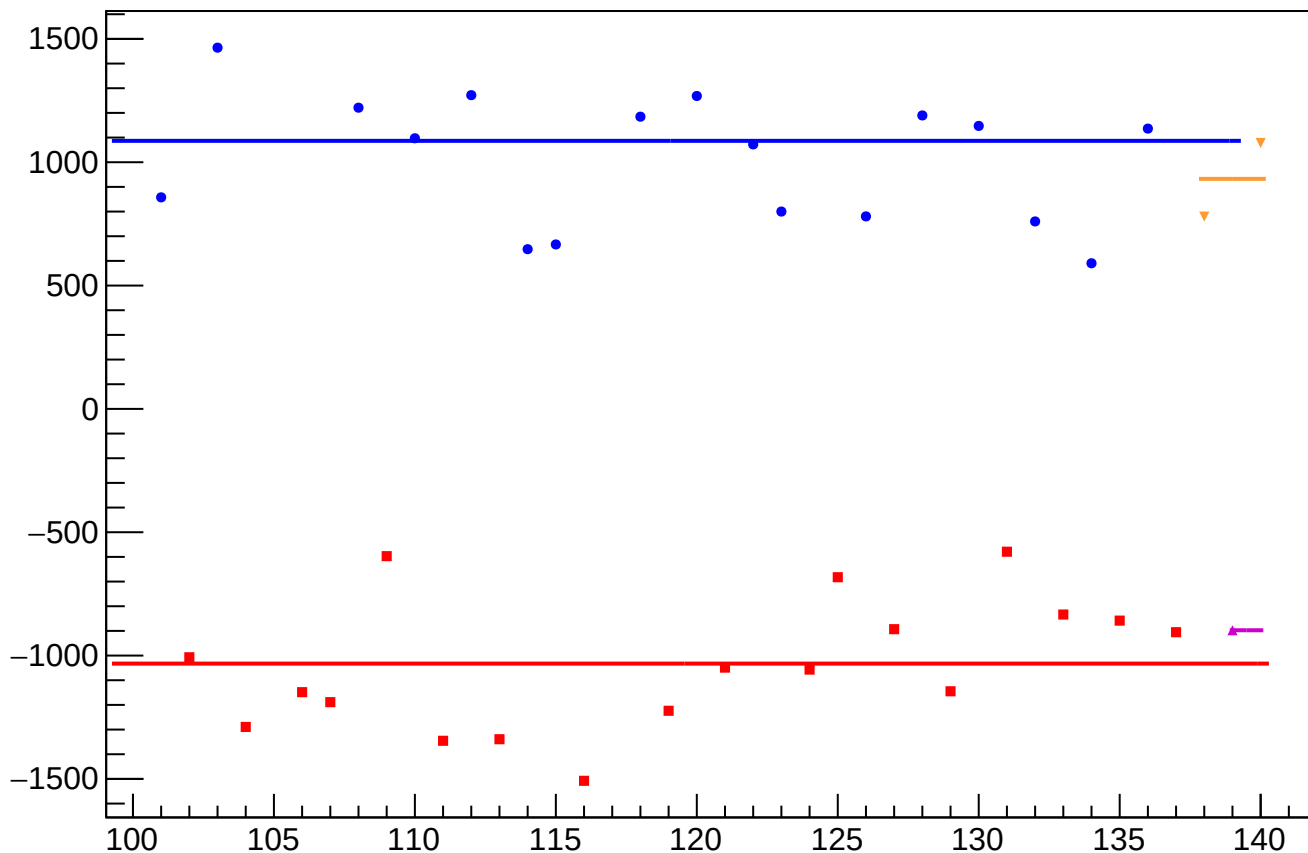
Right: -0.141+/-0.000  $\chi^2/\text{NDF}$ : 1155638622518713

In: 60.907+/-0.000  $\chi^2/\text{NDF}$ : 370052449980661184

Out: -47.831+/-0.000  $\chi^2/\text{NDF}$ : 5040337970986186

All: 3.243+/-0.000  $\chi^2/\text{NDF}$ : 13600320979840

dit\_sam8\_coil3\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1086.695+/-0.000

$\chi^2/\text{NDF}$ : 34612834720892896264590202148866752512.0/16

Left Out: 932.500+/-0.000

$\chi^2/\text{NDF}$ : 3563332707942458918492327433839050752.0/1

Right Out: -1032.544+/-0.000

$\chi^2/\text{NDF}$ : 47614887029691398867923382029973979136.0/17

Left In: -897.407+/-0.000

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

In: 879.324+/-0.000

$\chi^2/\text{NDF}$ : 32015532763453157

Out: -673.222+/-0.000

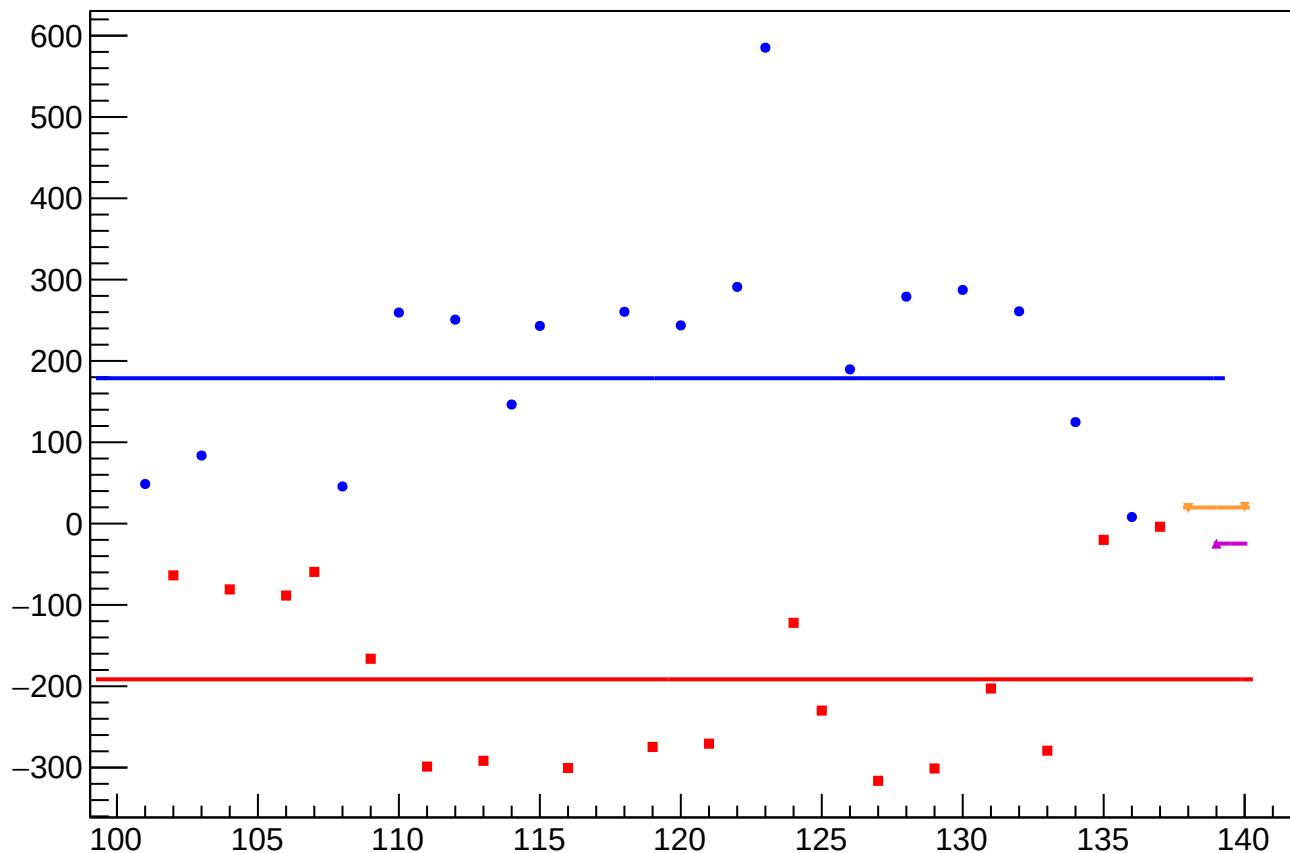
$\chi^2/\text{NDF}$ : 556028445362824

All: 56.004+/-0.000

$\chi^2/\text{NDF}$ : 1866820745271

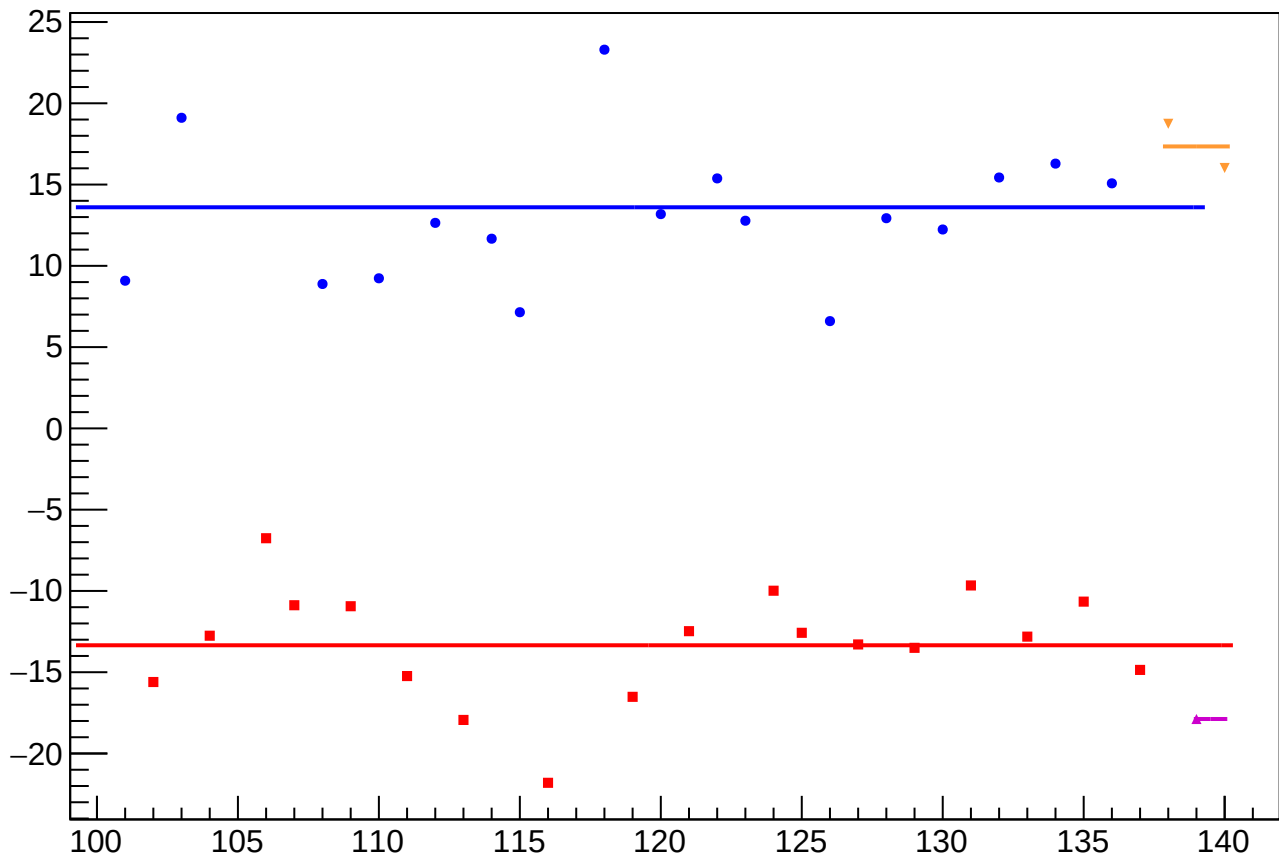


# dit\_4aX\_coil7\_mean vs Slug, Sign Corrected



Right In:  $178.734 \pm 0.000$   $\chi^2/\text{NDF}: 8494804765562228204327834177712947200.0/16$   
 Left Out:  $19.782 \pm 0.000$   $\chi^2/\text{NDF}: 79983019739482210636473217056768.0/1$   
 Right Out:  $-191.483 \pm 0.000$   $\chi^2/\text{NDF}: 8150461362250913614126902389436841984.0/17$   
 Left In:  $-24.593 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $-7.088 \pm 0.000$   $\chi^2/\text{NDF}: 6506052349686$

# dit\_4aX\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $13.603 \pm 0.000$   $\chi^2/\text{NDF}: 12735243270159378009596948914372608.0/16$

Left Out:  $17.345 \pm 0.000$   $\chi^2/\text{NDF}: 295525244614523559429386293739520.0/1$

Right Out:  $-13.343 \pm 0.000$   $\chi^2/\text{NDF}: 6808158047357444632184742387646464.0/17$

Left In:  $-17.878 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $5.507 \pm 0.000$   $\chi^2/\text{NDF}: 670137010099175036$

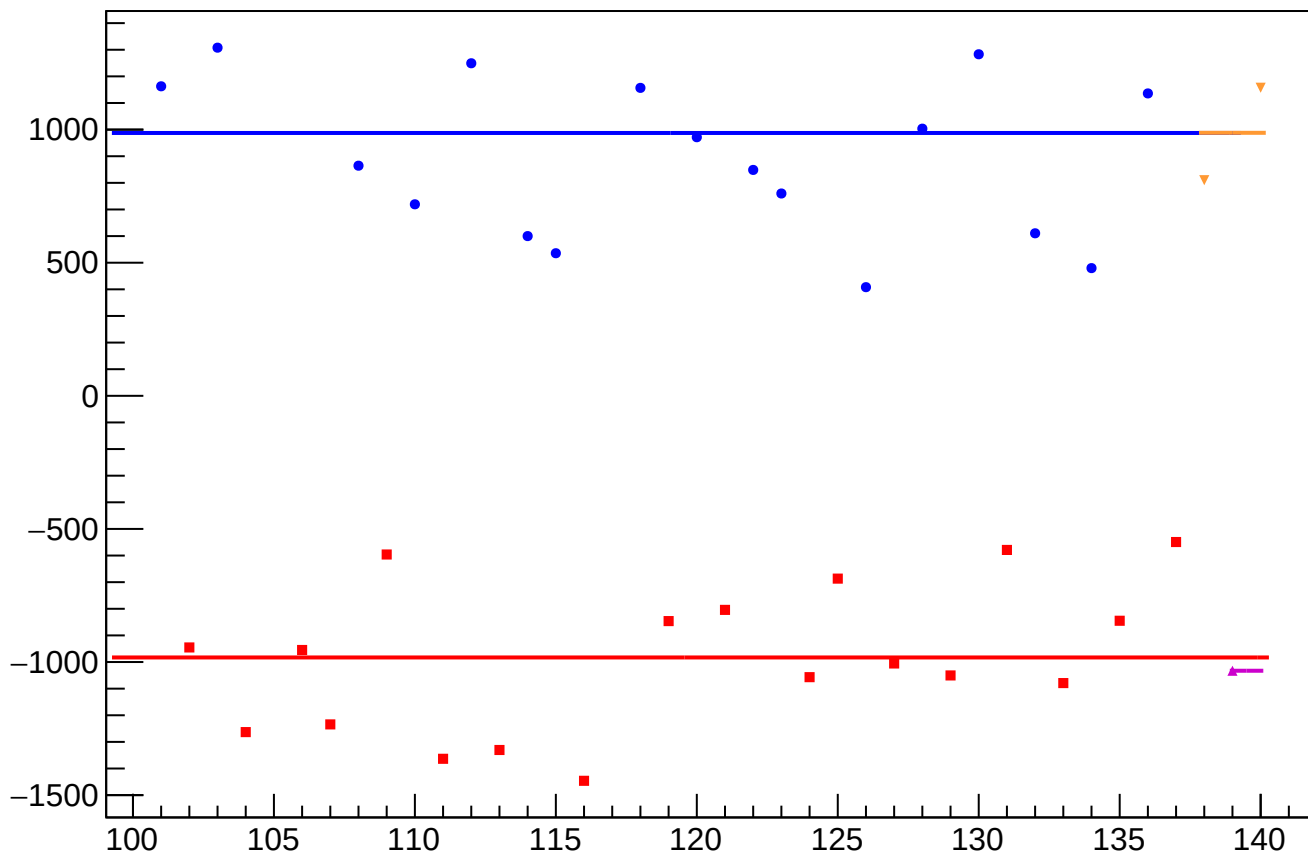
Right:  $-0.071 \pm 0.000$   $\chi^2/\text{NDF}: 2752368214719958$

In:  $10.312 \pm 0.000$   $\chi^2/\text{NDF}: 846171050894737003$

Out:  $-7.731 \pm 0.000$   $\chi^2/\text{NDF}: 13023244632929893$

All:  $0.744 \pm 0.000$   $\chi^2/\text{NDF}: 34865340394407$

dit\_4aX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

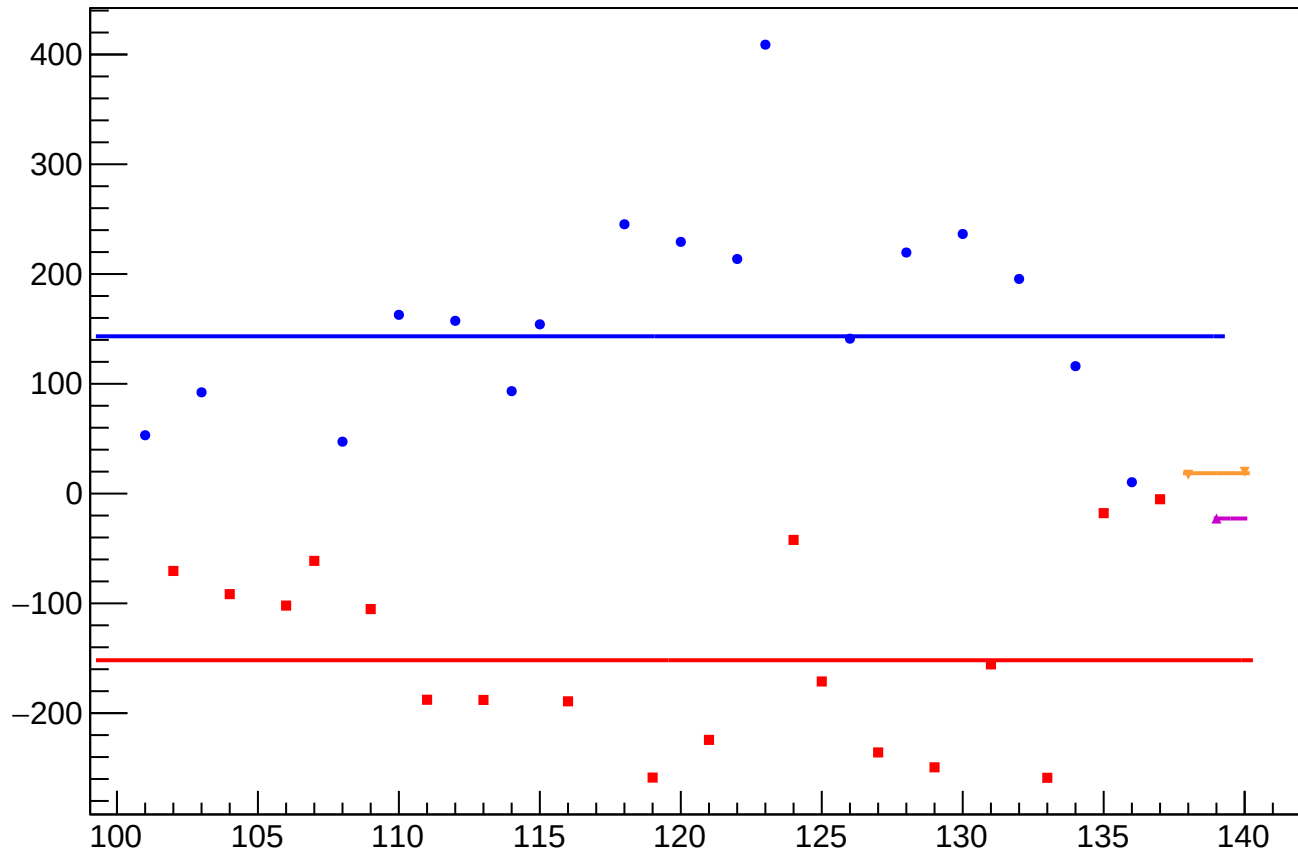
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

# dit\_4eX\_coil7\_mean vs Slug, Sign Corrected



Right In: 143.291+/-0.000  $\chi^2/\text{NDF}$ : 4778890435983165530583685149403119616.0/16

Left Out: 18.550+/-0.000  $\chi^2/\text{NDF}$ : 297677914164880177282434675507200.0/1

Right Out: -151.819+/-0.000  $\chi^2/\text{NDF}$ : 4652479354515348530637943017457057792.0/17

Left In: -22.702+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4.685+/-0.000  $\chi^2/\text{NDF}$ : 918117240086543750

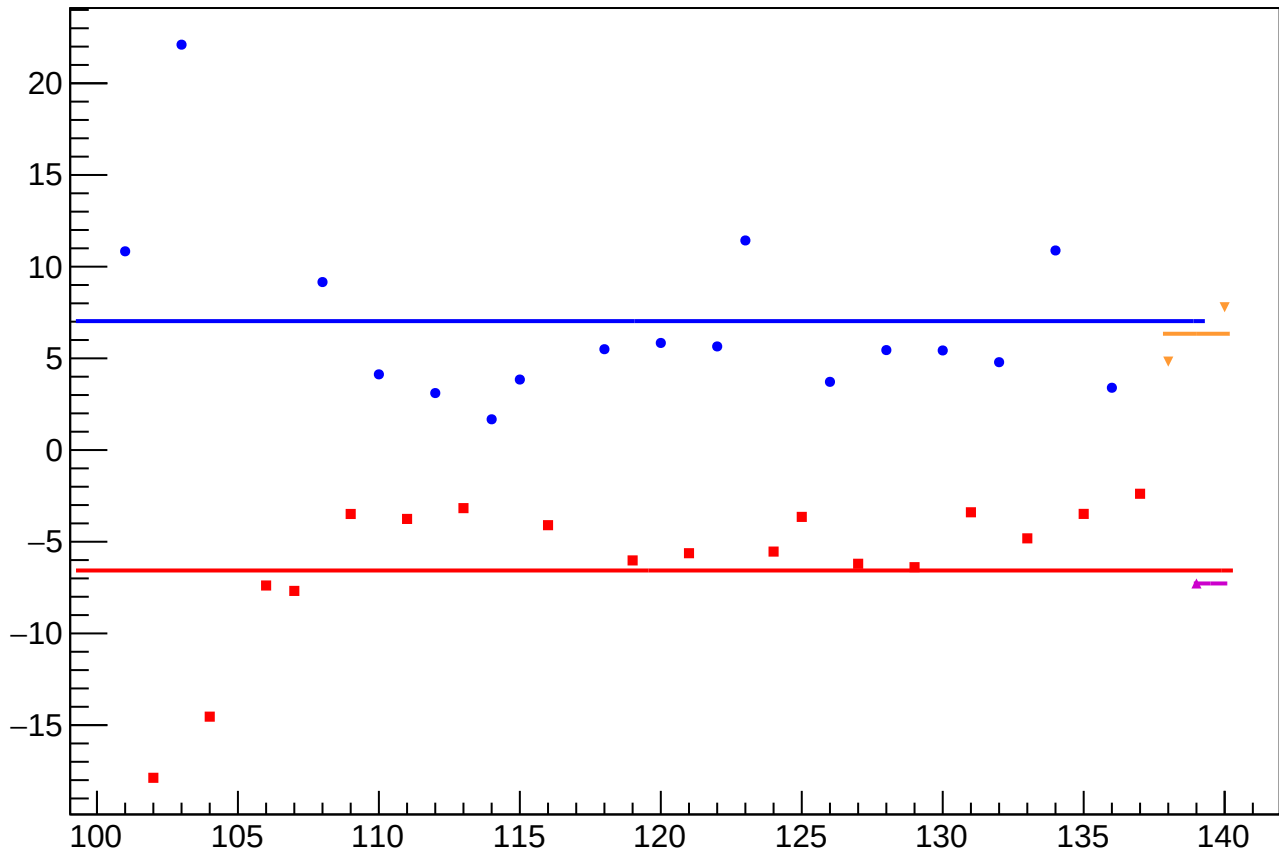
Right: -6.463+/-0.000  $\chi^2/\text{NDF}$ : 4010201428427812

In: 125.942+/-0.000  $\chi^2/\text{NDF}$ : 6777484726772484

Out: -120.666+/-0.000  $\chi^2/\text{NDF}$ : 844767548418134

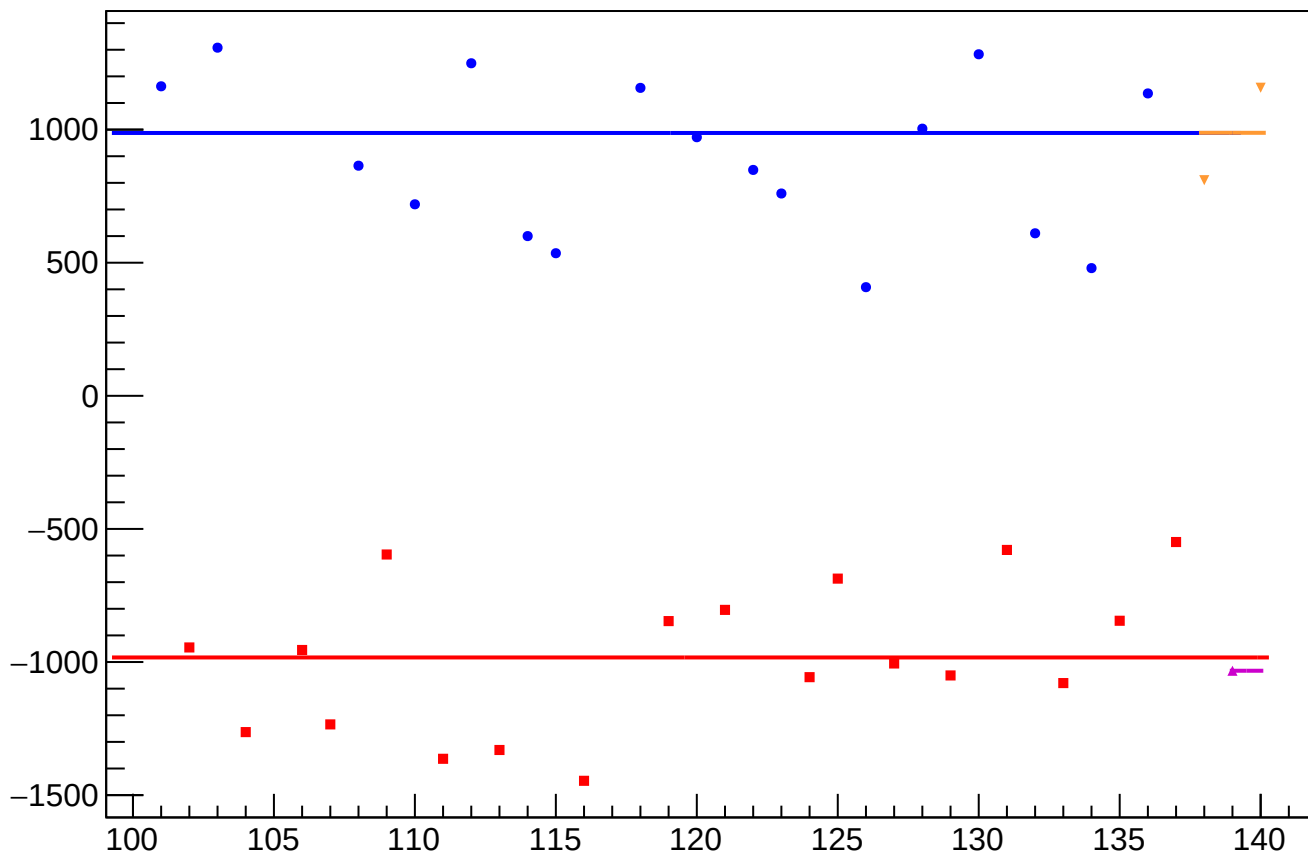
All: -4.835+/-0.000  $\chi^2/\text{NDF}$ : 4021940400578

dit\_4eX\_coil7\_err\_mean vs Slug, Sign Corrected



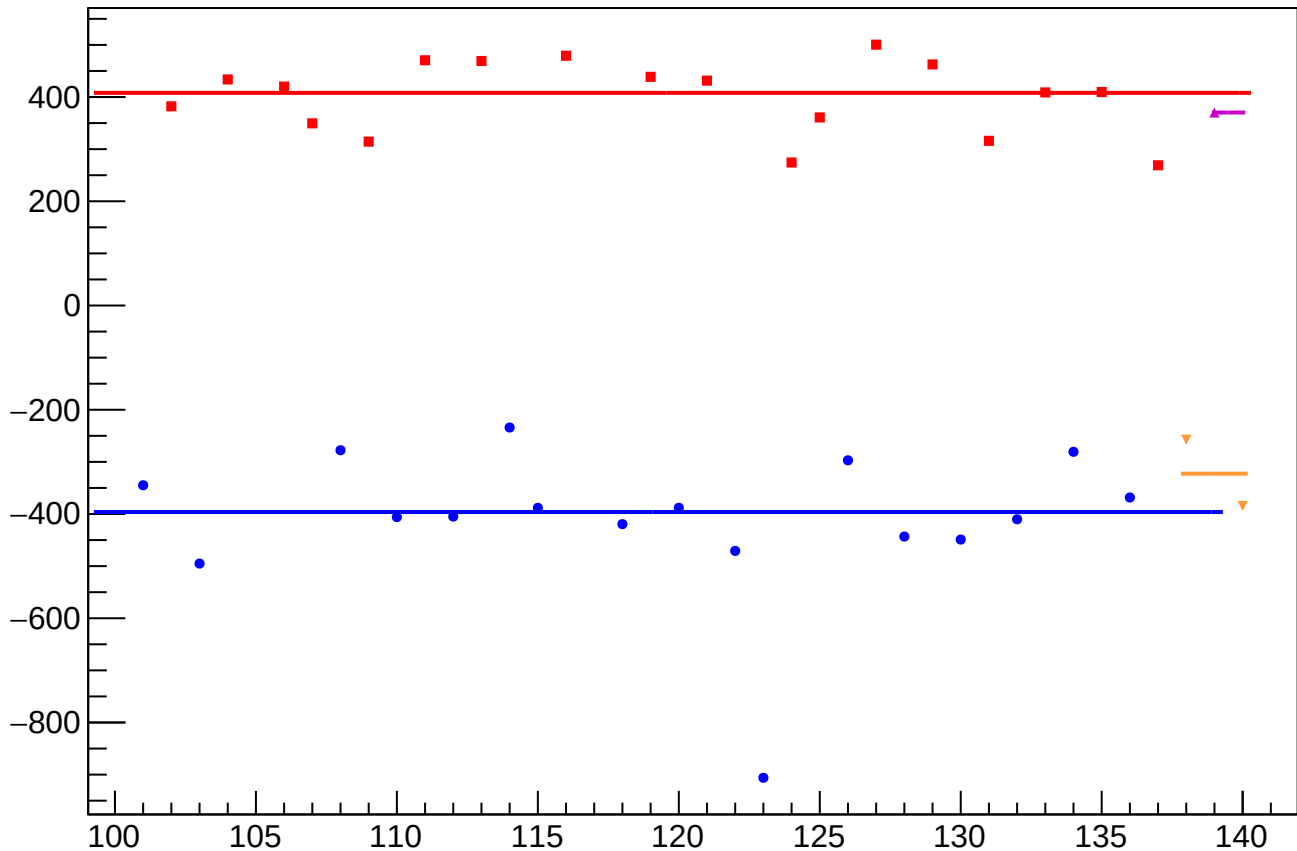
Right In: 7.031+/-0.000  $\chi^2/\text{NDF}$ : 18686972393169306014765519518826496.0/16  
 Left Out: 6.342+/-0.000  $\chi^2/\text{NDF}$ : 351263169643787113612634656604160.0/1  
 Right Out: -6.568+/-0.000  $\chi^2/\text{NDF}$ : 13908005278630821419370553666437120.0/17  
 Left In: -7.276+/-0.000  $\chi^2/\text{NDF}$ : 63.9/0  
 All: 0.369+/-0.000  $\chi^2/\text{NDF}$ : 10859408848704

dit\_4eX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_11X12X\_coil7\_mean vs Slug, Sign Corrected



Right In: -396.205+/-0.000

Left Out: -322.642+/-0.000

Right Out: 408.004+/-0.000

Left In: 370.269+/-0.000

$\chi^2/\text{NDF}$ : 3915339787327324310697642459645607936.0/16

$\chi^2/\text{NDF}$ : 647650969007475280041818029754941440.0/1

$\chi^2/\text{NDF}$ : 2700413725595197389596215208912617472.0/17

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

Left: -89.755+/-0.000  $\chi^2/\text{NDF}$ : 2646685257708265

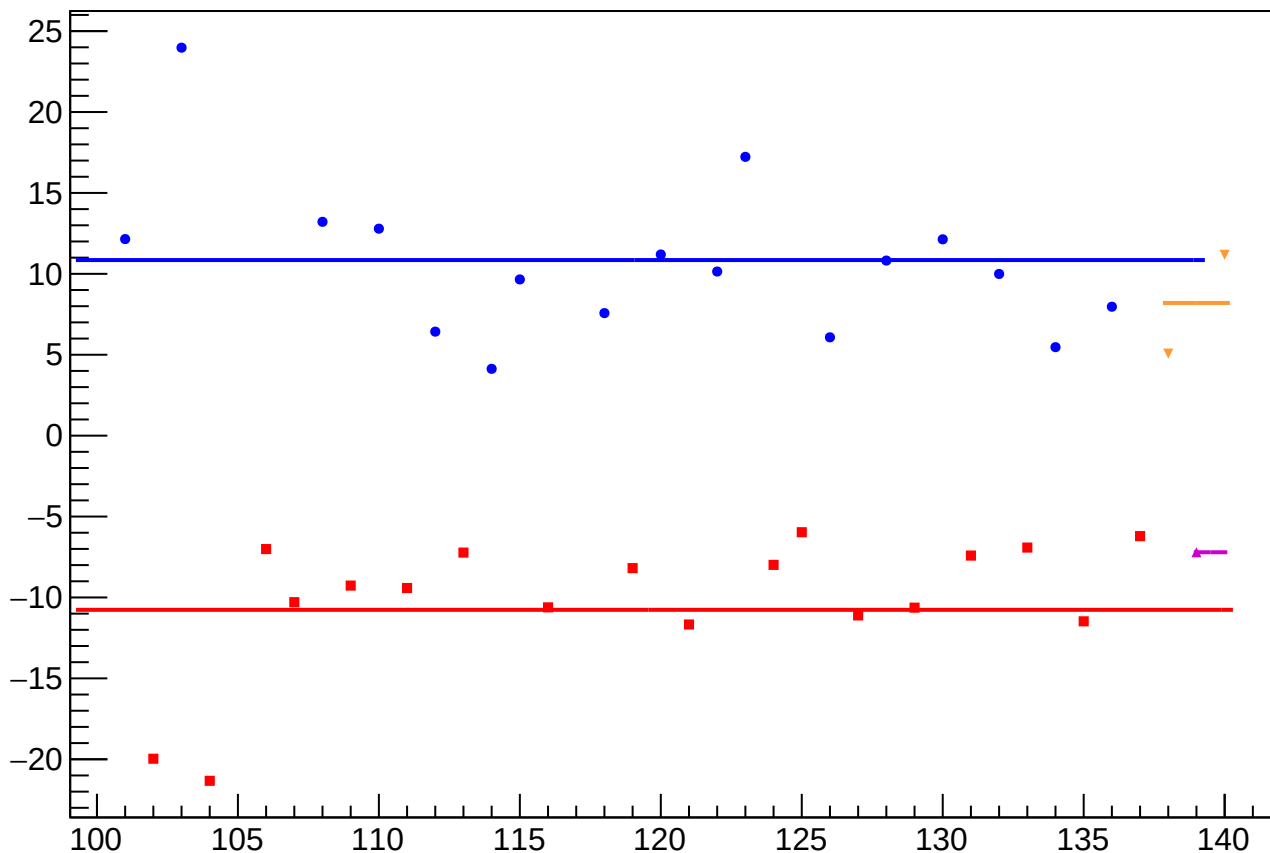
Right: 11.893+/-0.000  $\chi^2/\text{NDF}$ : 2343837724637462

In: -316.096+/-0.000  $\chi^2/\text{NDF}$ : 4652788125506056

Out: 274.400+/-0.000  $\chi^2/\text{NDF}$ : 7314438933712620

All: -2.954+/-0.000  $\chi^2/\text{NDF}$ : 2629769994269

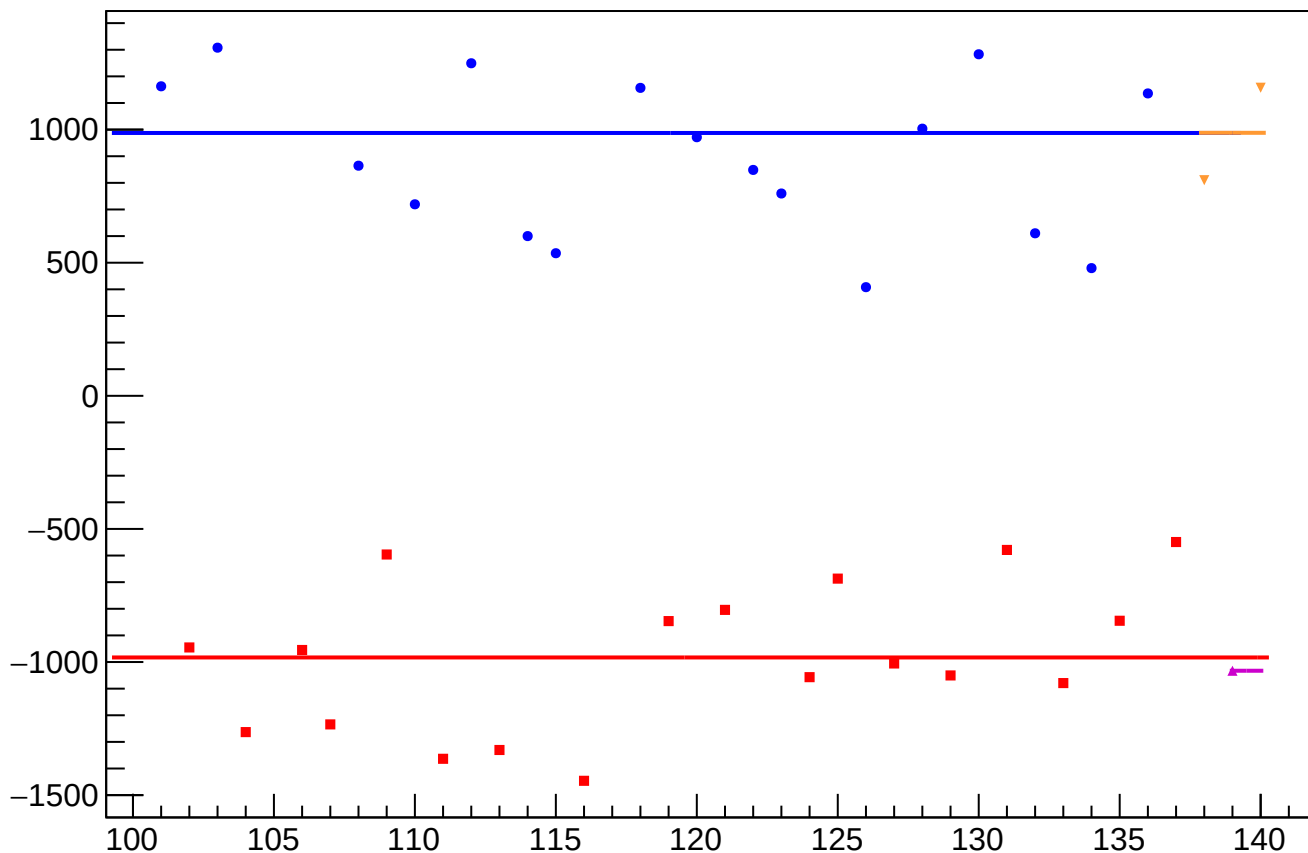
dit\_11X12X\_coil7\_err\_mean vs Slug, Sign Corrected



Right In:  $10.851 \pm 0.000$   $\chi^2/\text{NDF}: 15284459899452545966128799384862720.0/16$   
 Left Out:  $8.200 \pm 0.000$   $\chi^2/\text{NDF}: 1491193174886554715951008694927360.0/1$   
 Right Out:  $-10.764 \pm 0.000$   $\chi^2/\text{NDF}: 14575858748491423837639288498946048.0/17$   
 Left In:  $-7.206 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $0.341 \pm 0.000$   $\chi^2/\text{NDF}: 21069326697558$

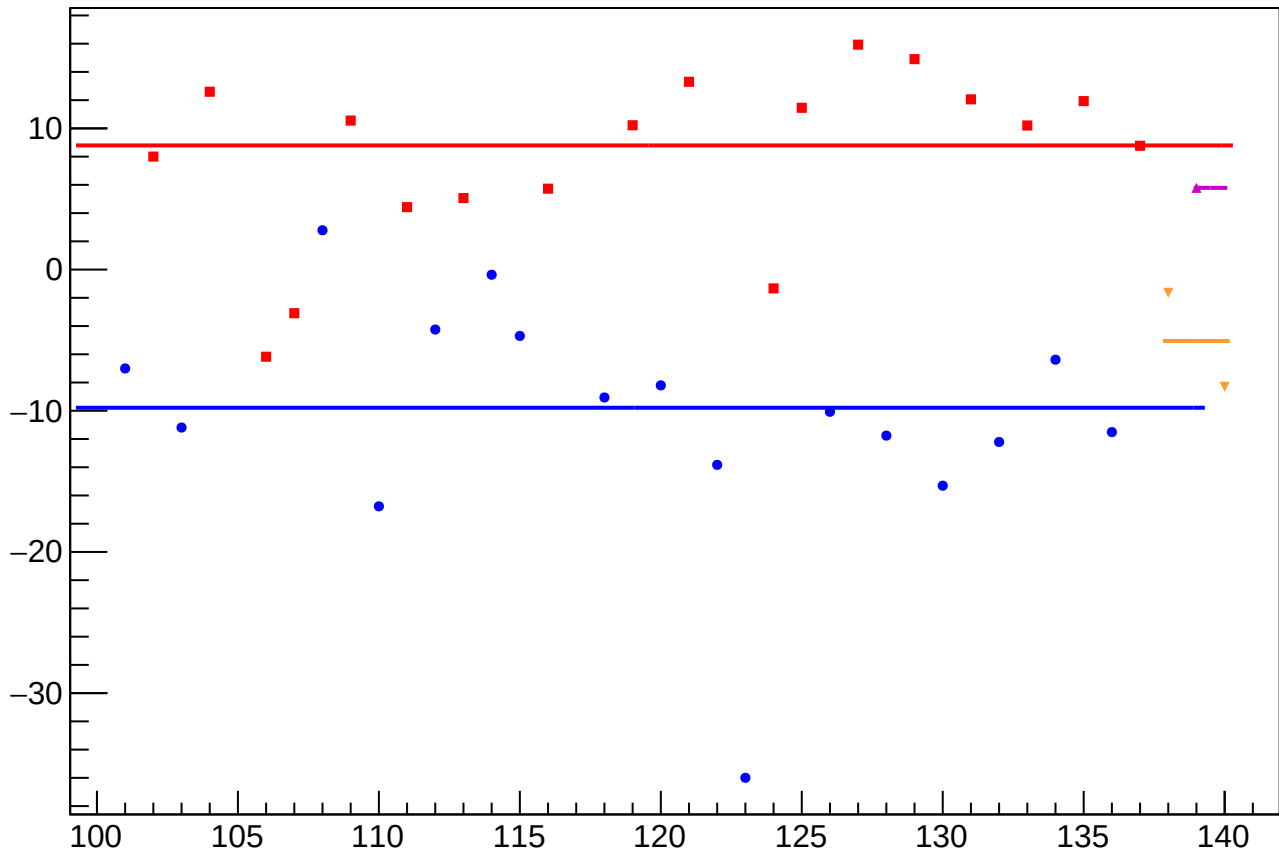


dit\_11X12X\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_4aY\_coil7\_mean vs Slug, Sign Corrected



Right In: -9.786+/-0.000

$\chi^2/\text{NDF}$ : 17296683010620060540445571791454208.0/16

Left Out: -5.058+/-0.000

$\chi^2/\text{NDF}$ : 1772335255895995958874320035381248.0/1

Right Out: 8.794+/-0.000

$\chi^2/\text{NDF}$ : 21979472889395409230974985175040000.0/17

Left In: 5.789+/-0.000

$\chi^2/\text{NDF}$ : 63.9/0

Left: -1.413+/-0.000  $\chi^2/\text{NDF}$ : 80997086570349104

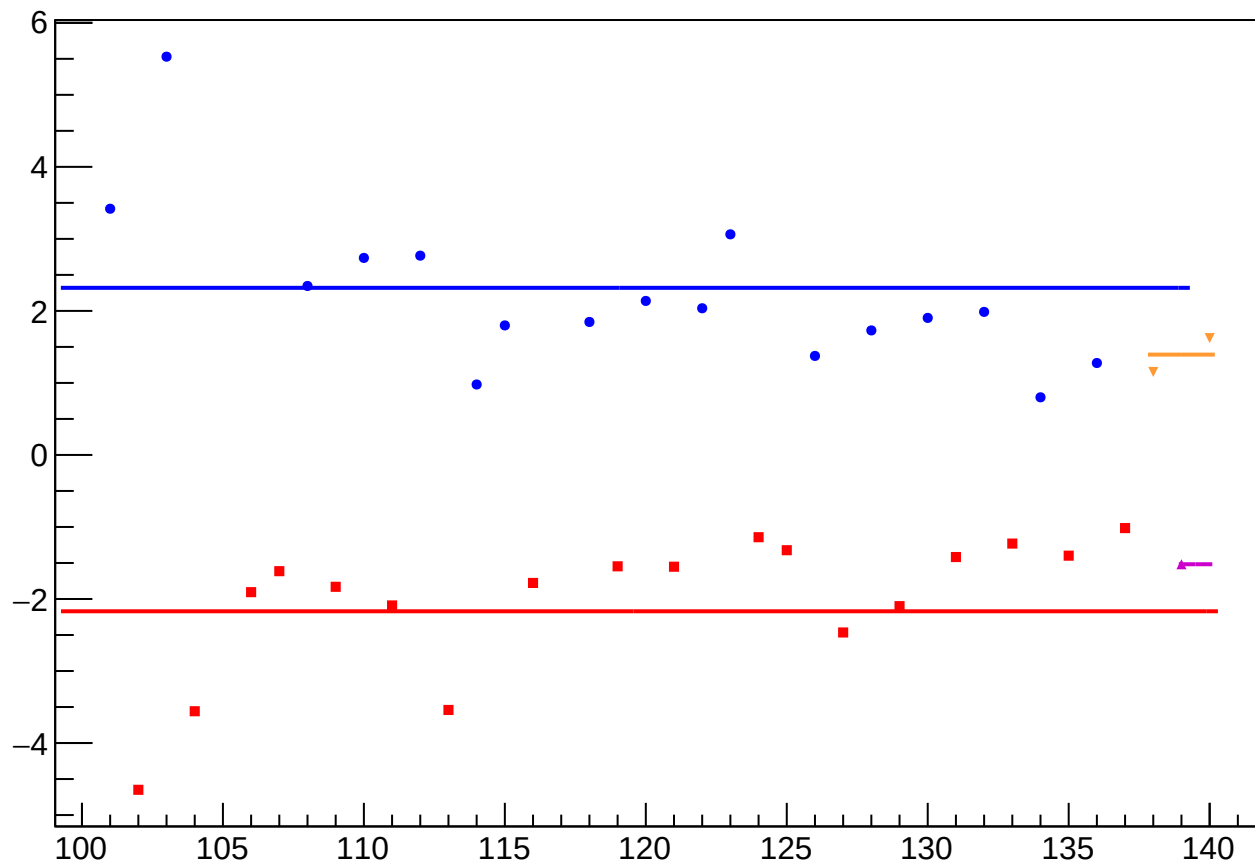
Right: -0.358+/-0.000  $\chi^2/\text{NDF}$ : 1608503325720223

In: -8.158+/-0.000  $\chi^2/\text{NDF}$ : 348916327235160276

Out: 6.261+/-0.000  $\chi^2/\text{NDF}$ : 488395567928227675

All: -0.512+/-0.000  $\chi^2/\text{NDF}$ : 1691791302573

dit\_4aY\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 2.320+/-0.000

$\chi^2/\text{NDF}$ : 951785069007432203128626661556224.0/16

Left Out: 1.393+/-0.000

$\chi^2/\text{NDF}$ : 8824859298248483262748170387456.0/1

Right Out: -2.171+/-0.000

$\chi^2/\text{NDF}$ : 756432905902484239494035607126016.0/17

Left In: -1.518+/-0.000

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

Left: 0.415+/-0.000  $\chi^2/\text{NDF}$ : 464431103709768009

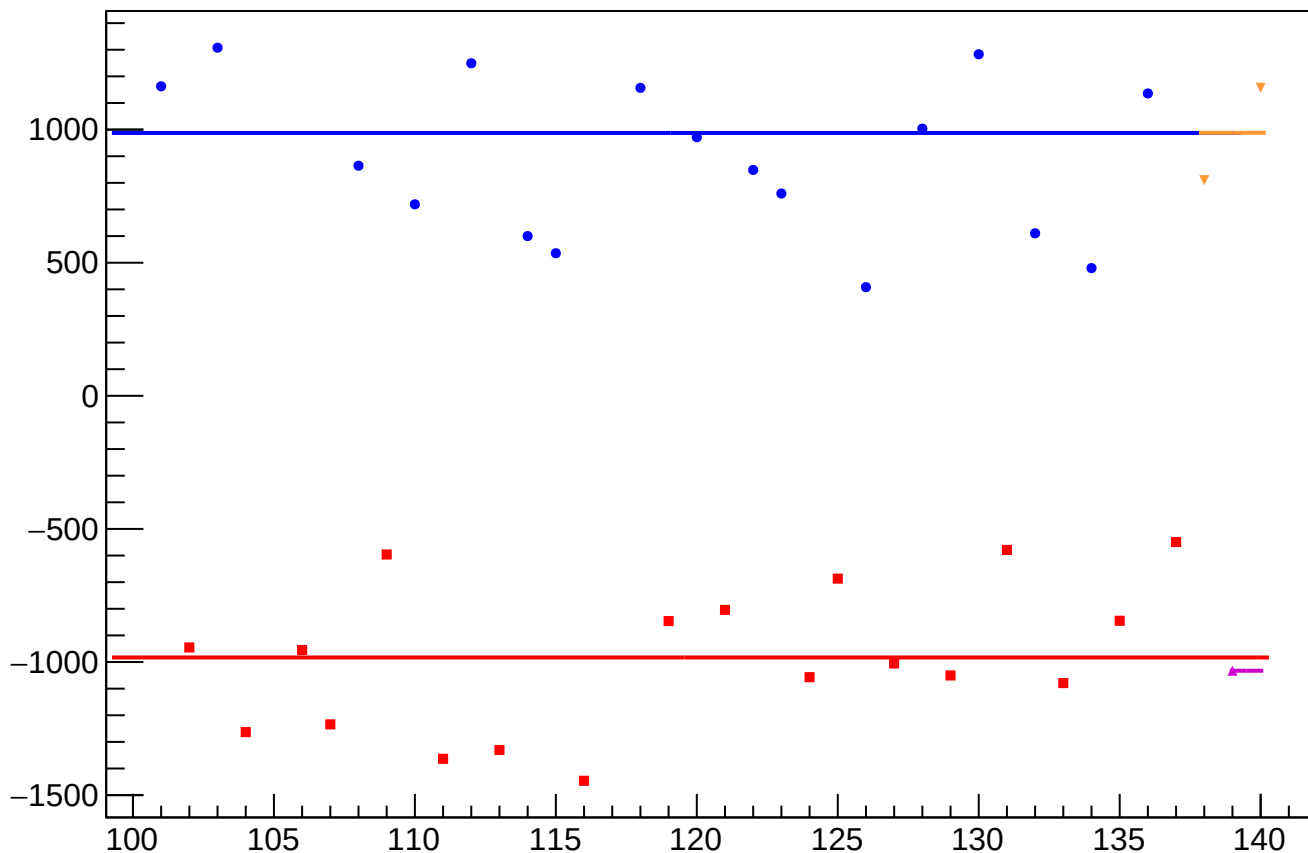
Right: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 88115576933846796

In: 1.919+/-0.000  $\chi^2/\text{NDF}$ : 2020248119918507648

Out: -1.519+/-0.000  $\chi^2/\text{NDF}$ : 24257856774715055

All: 0.096+/-0.000  $\chi^2/\text{NDF}$ : 93046867628332

dit\_4aY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

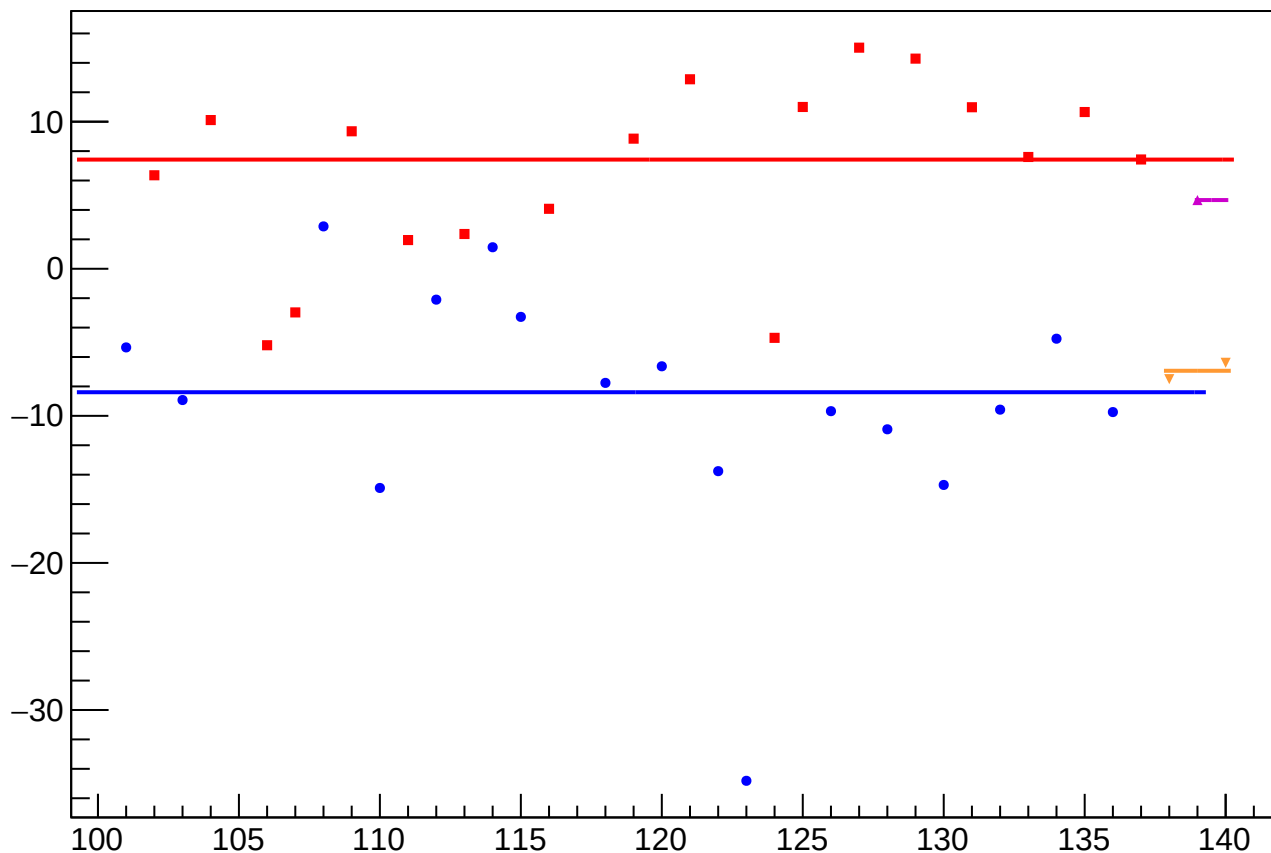
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

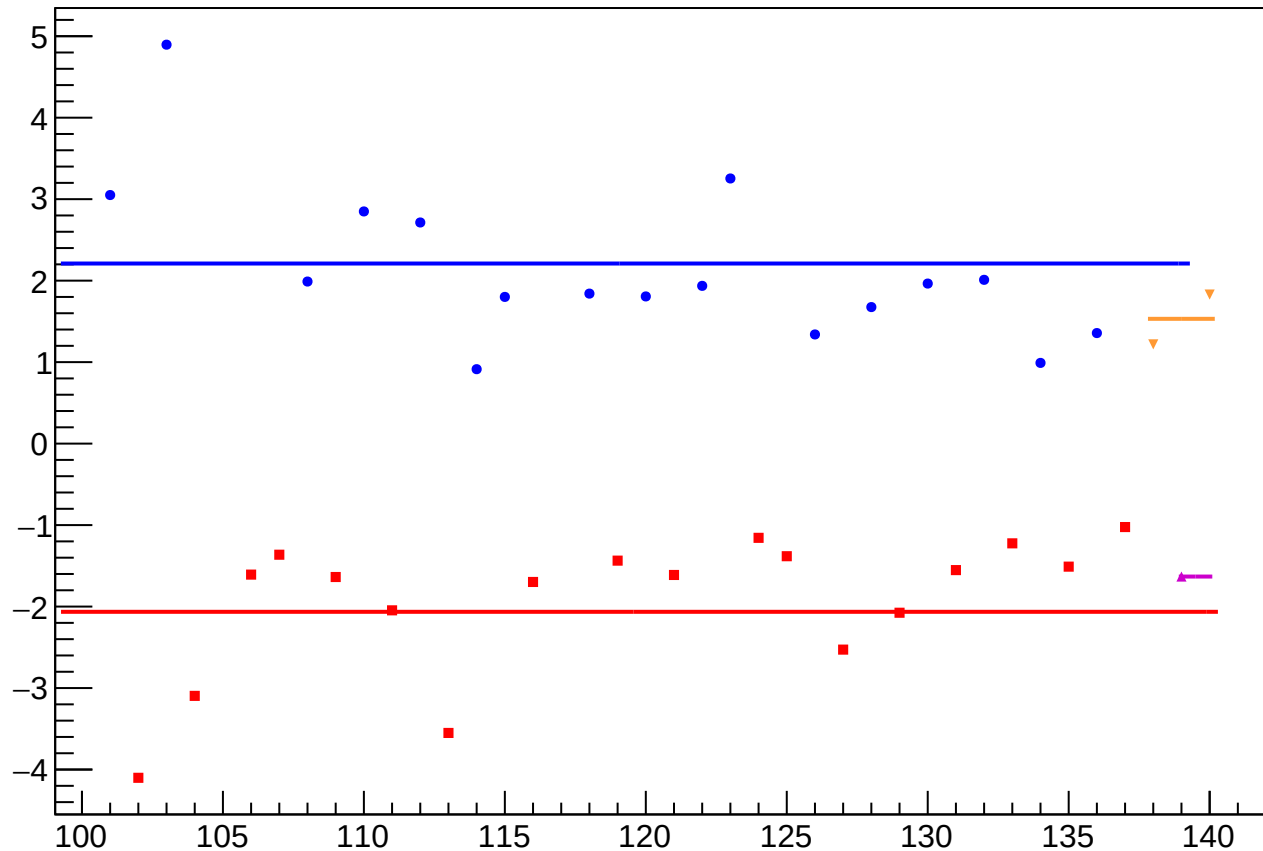
All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

dit\_4eY\_coil7\_mean vs Slug, Sign Corrected



Right In:  $-8.394 \pm 0.000$   $\chi^2/\text{NDF}: 17454293749905596935063382469378048.0/16$   
 Left Out:  $-6.936 \pm 0.000$   $\chi^2/\text{NDF}: 49506067189149950745437930520576.0/1$   
 Right Out:  $7.423 \pm 0.000$   $\chi^2/\text{NDF}: 21448737498509381182656193641840640.0/17$   
 Left In:  $4.672 \pm 0.000$   $\chi^2/\text{NDF}: 63.9/0$   
 All:  $-0.757 \pm 0.000$   $\chi^2/\text{NDF}: 1357742830226$

dit\_4eY\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 2.210 +/- 0.000

$\chi^2/\text{NDF}$ : 685219894303103753186103173054464.0/16

Left Out: 1.531 +/- 0.000

$\chi^2/\text{NDF}$ : 14945144093822238568683671650304.0/1

Right Out: -2.064 +/- 0.000

$\chi^2/\text{NDF}$ : 574315722841914805756407412948992.0/17

Left In: -1.632 +/- 0.000

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

Left: 0.468 +/- 0.000  $\chi^2/\text{NDF}$ : 552951062899956420.0/16

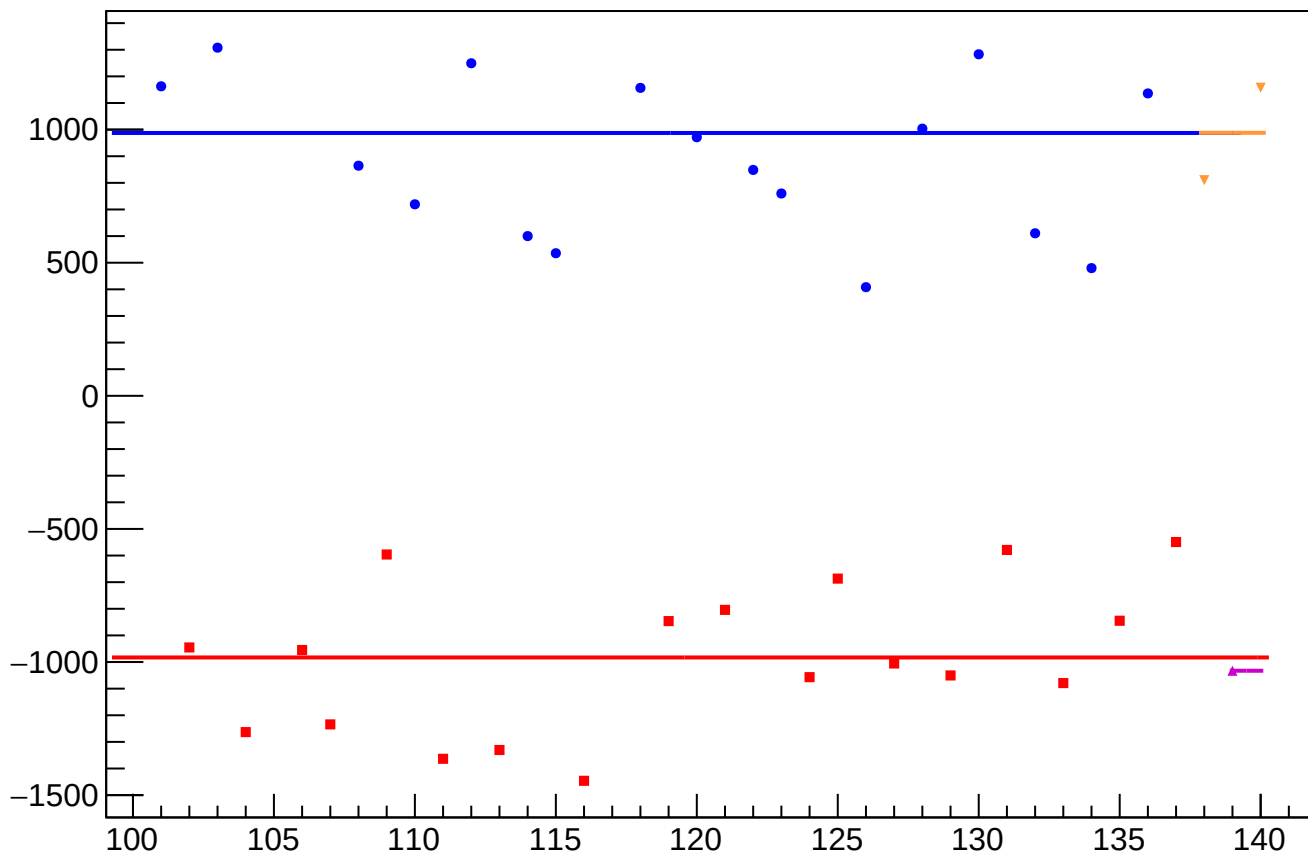
Right: 0.041 +/- 0.000  $\chi^2/\text{NDF}$ : 76938817270051941.0/1

In: 1.809 +/- 0.000  $\chi^2/\text{NDF}$ : 1755759297192754518.0/1

Out: -1.407 +/- 0.000  $\chi^2/\text{NDF}$ : 22795894335187718.0/1

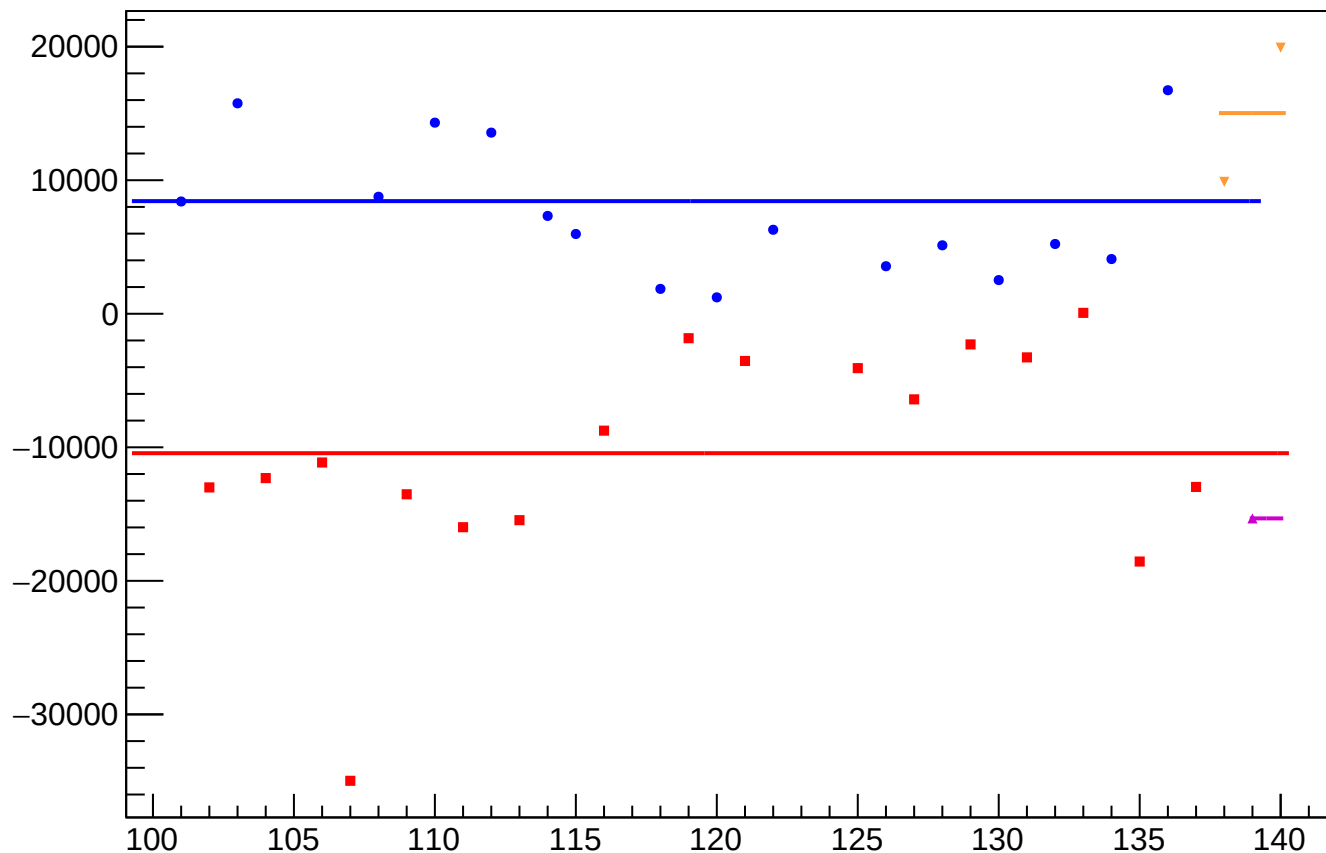
All: 0.104 +/- 0.000  $\chi^2/\text{NDF}$ : 82843935230664.0/1

dit\_4eY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

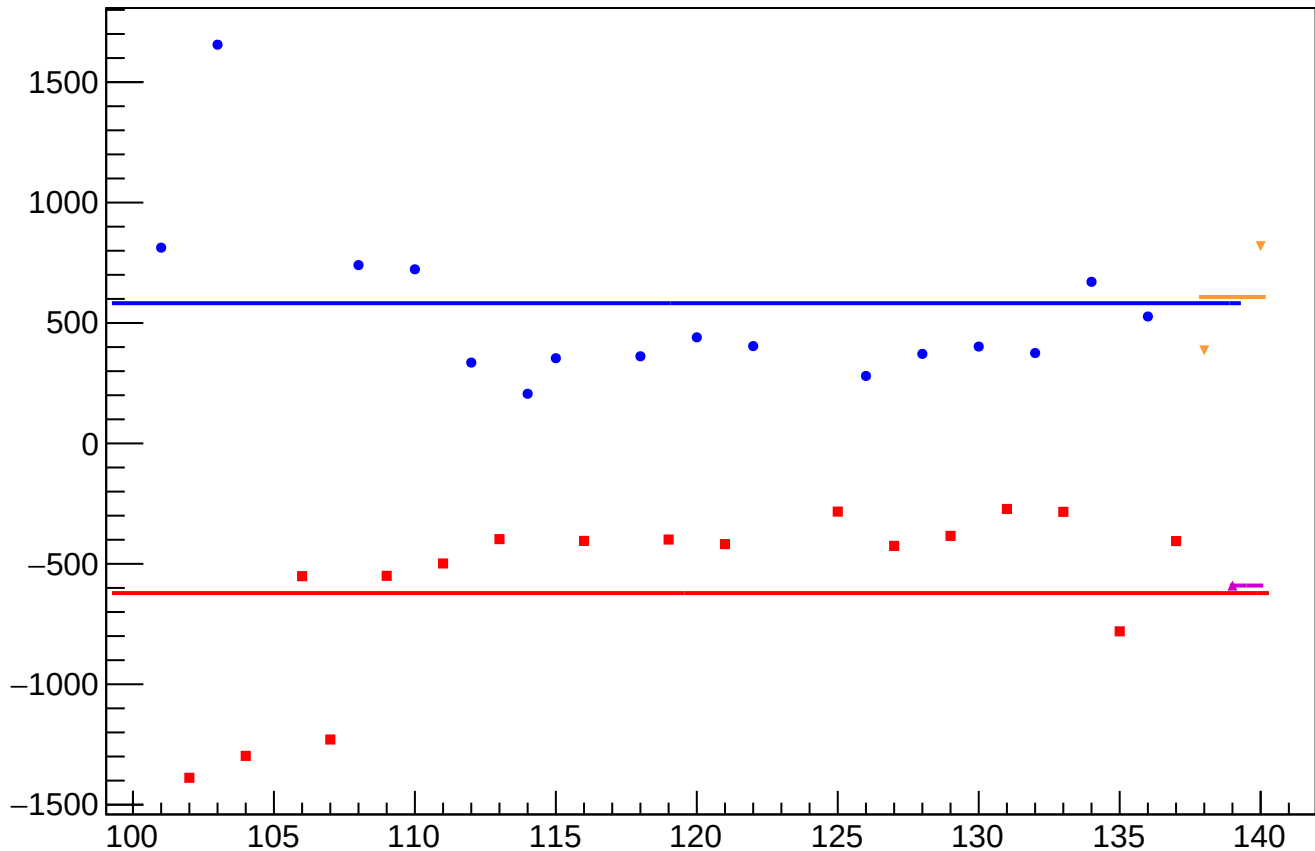
# dit\_usl\_coil7\_mean vs Slug, Sign Corrected



Right In: 8433.891+/-0.000  $\chi^2/\text{NDF}$ : 20327422028204985369763408215621299601408.0/15  
 Left Out: 15027.050+/-0.000  $\chi^2/\text{NDF}$ : 4035156664937944280356876556726725246976.0/1  
 Right Out: -10440.704+/-0.000  $\chi^2/\text{NDF}$ : 45868144044016746065453678570140629729280.0/16  
 Left In: -15323.787+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -206.157+/-0.000  $\chi^2/\text{NDF}$ : 25080648070



# dit\_usl\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 582.194+/-0.000

$\chi^2/\text{NDF}$ : 92652521491388929844313077938841976832.0/15

Left Out: 607.942+/-0.000

$\chi^2/\text{NDF}$ : 7484777139165442209958568680971304960.0/1

Right Out: -621.413+/-0.000

$\chi^2/\text{NDF}$ : 99044900314697449740386824149731901440.0/16

Left In: -590.074+/-0.000

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

Left: 205.289+/-0.000  $\chi^2/\text{NDF}$ : 8466627674390800

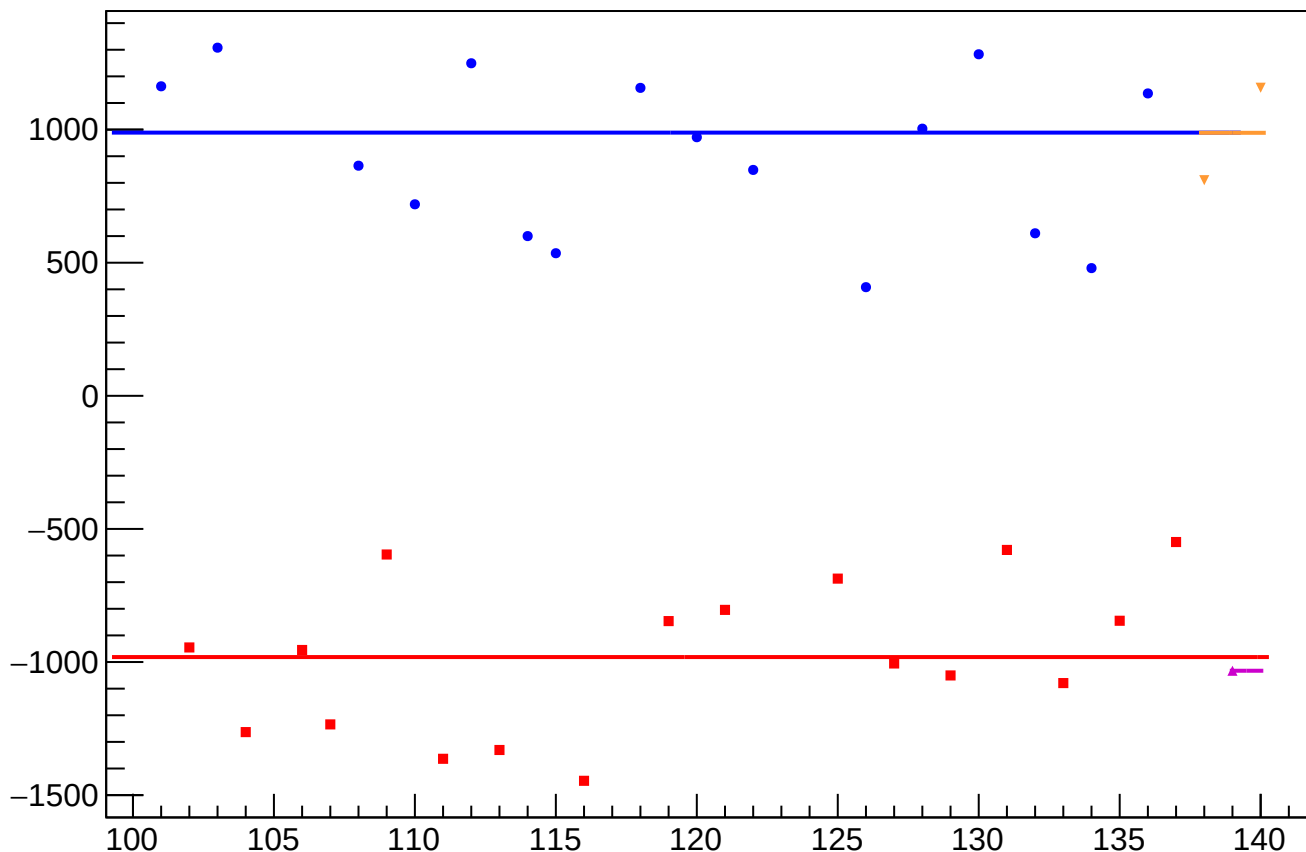
Right: -24.369+/-0.000  $\chi^2/\text{NDF}$ : 695441277498736

In: 459.038+/-0.000  $\chi^2/\text{NDF}$ : 19226960756350209

Out: -392.962+/-0.000  $\chi^2/\text{NDF}$ : 303404230864770

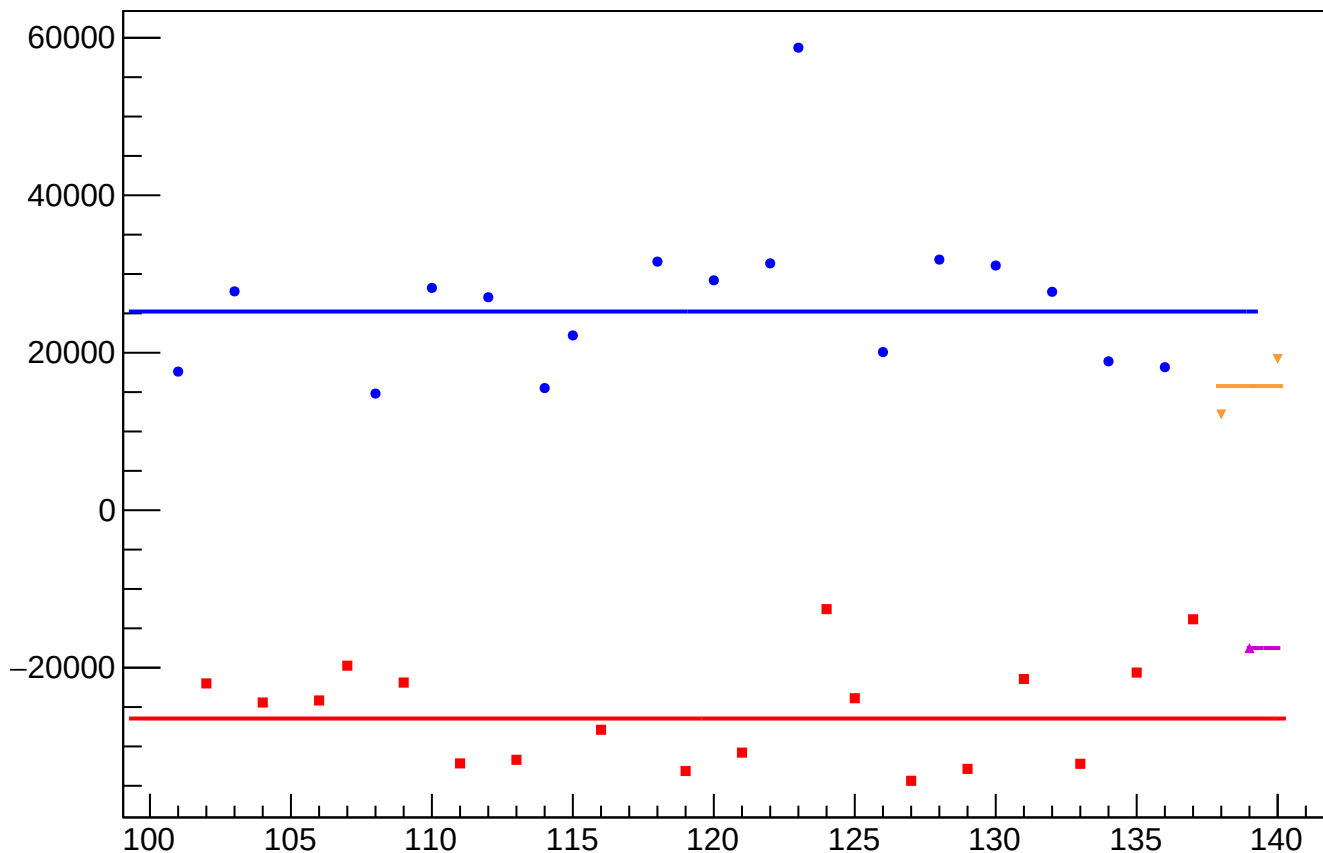
All: 9.545+/-0.000  $\chi^2/\text{NDF}$ : 79094149072993

dit\_usl\_coil7\_Ndata\_mean vs Slug, Sign Corrected



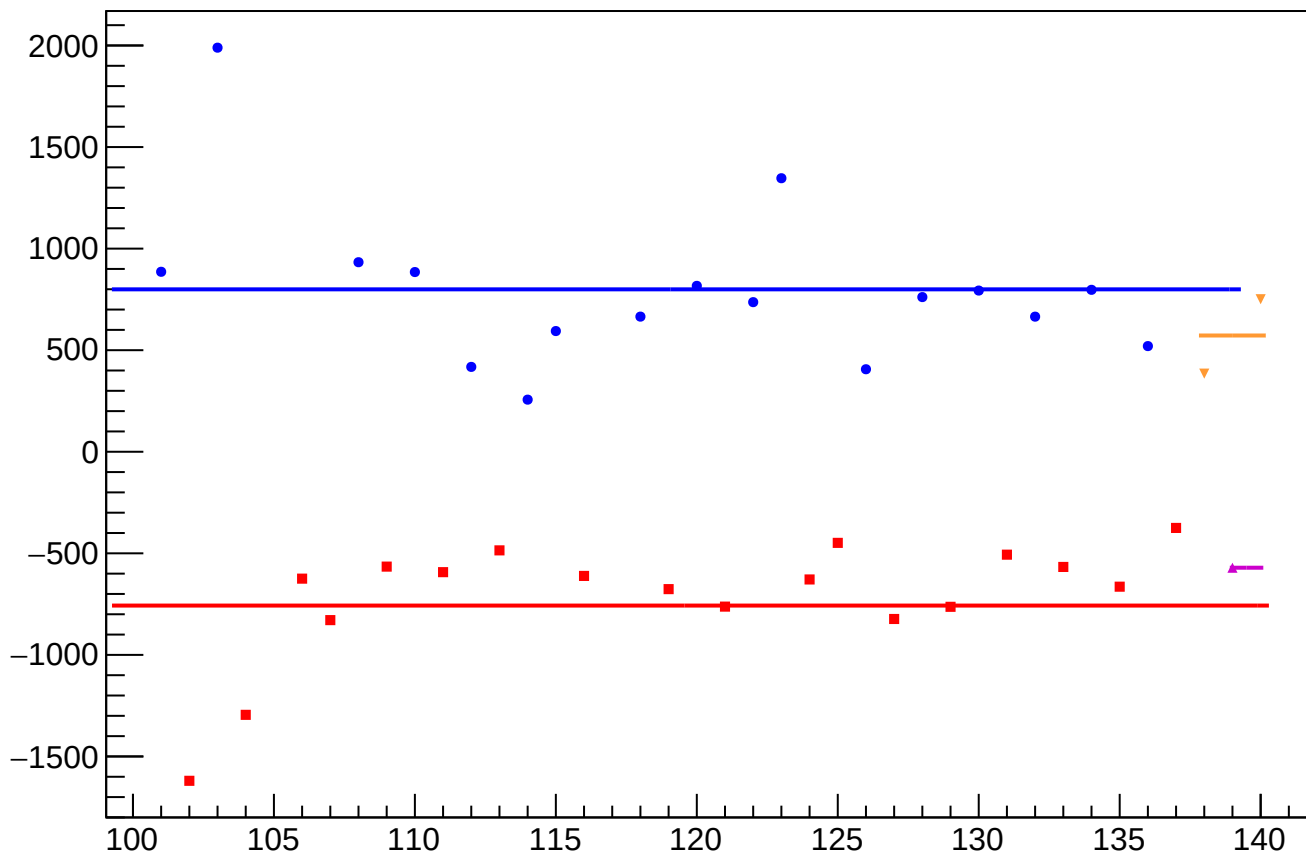
Right In: 988.706+/-0.000  $\chi^2/\text{NDF}$ : 52363367379197496459026096064200441856.0/15  
 Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1  
 Right Out: -981.352+/-0.000  $\chi^2/\text{NDF}$ : 48028000110939353209143459445919973376.0/16  
 Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0  
 Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272  
 Right: -4.113+/-0.000  $\chi^2/\text{NDF}$ : 1449969615524364  
 In: 776.336+/-0.000  $\chi^2/\text{NDF}$ : 34857646054164280  
 Out: -615.391+/-0.000  $\chi^2/\text{NDF}$ : 558058716314395  
 All: 42.097+/-0.000  $\chi^2/\text{NDF}$ : 1694489075274

# dit\_usr\_coil7\_mean vs Slug, Sign Corrected



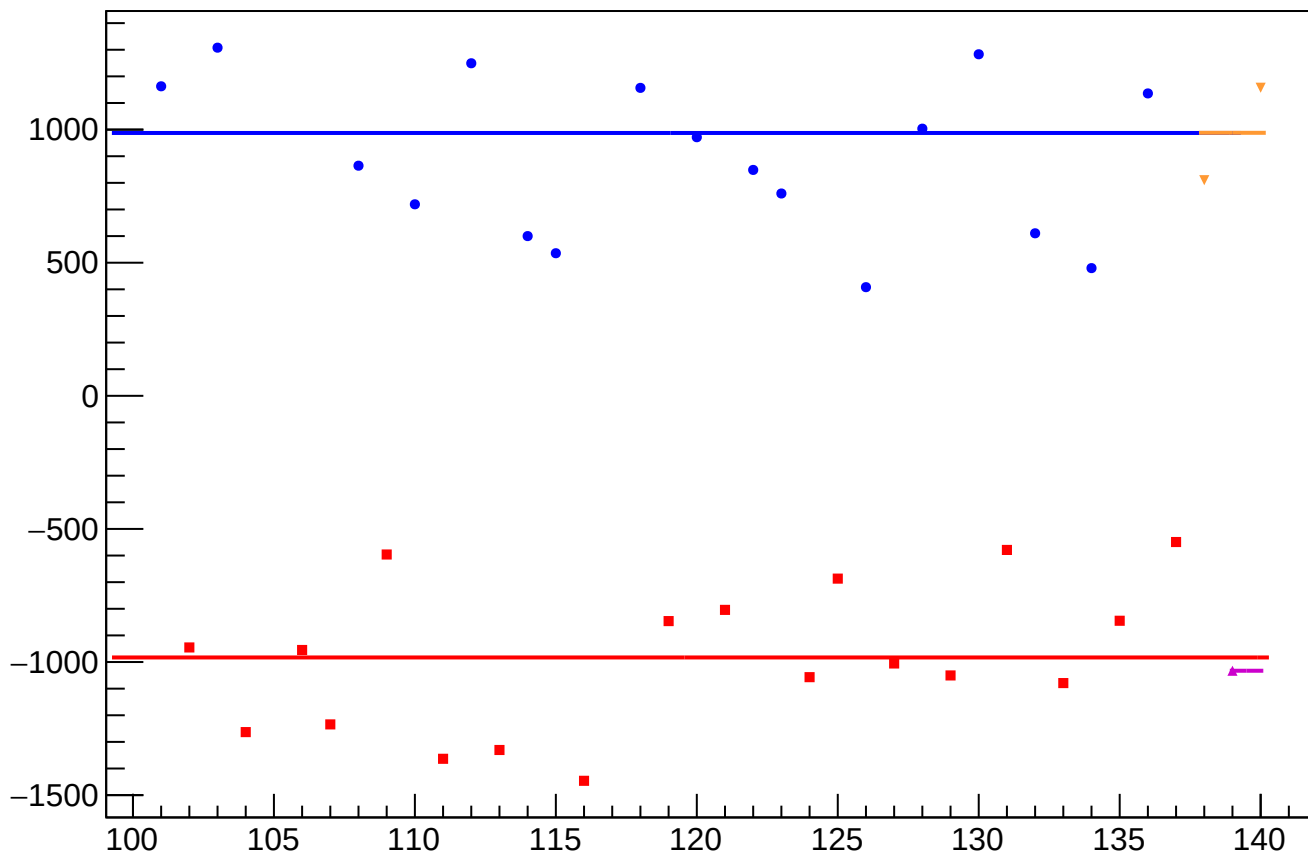
Right In: 25236.317+/-0.000  $\chi^2/\text{NDF}$ : 29071522213059582283269412071648973029376.0/16  
 Left Out: 15768.887+/-0.000  $\chi^2/\text{NDF}$ : 1979829163088487839575435518516968554496.0/1  
 Right Out: -26455.988+/-0.000  $\chi^2/\text{NDF}$ : 24365500126615965846523683173160051539968.0/17  
 Left In: -17505.390+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -179.965+/-0.000  $\chi^2/\text{NDF}$ : 10624014554

dit\_usr\_coil7\_err\_mean vs Slug, Sign Corrected



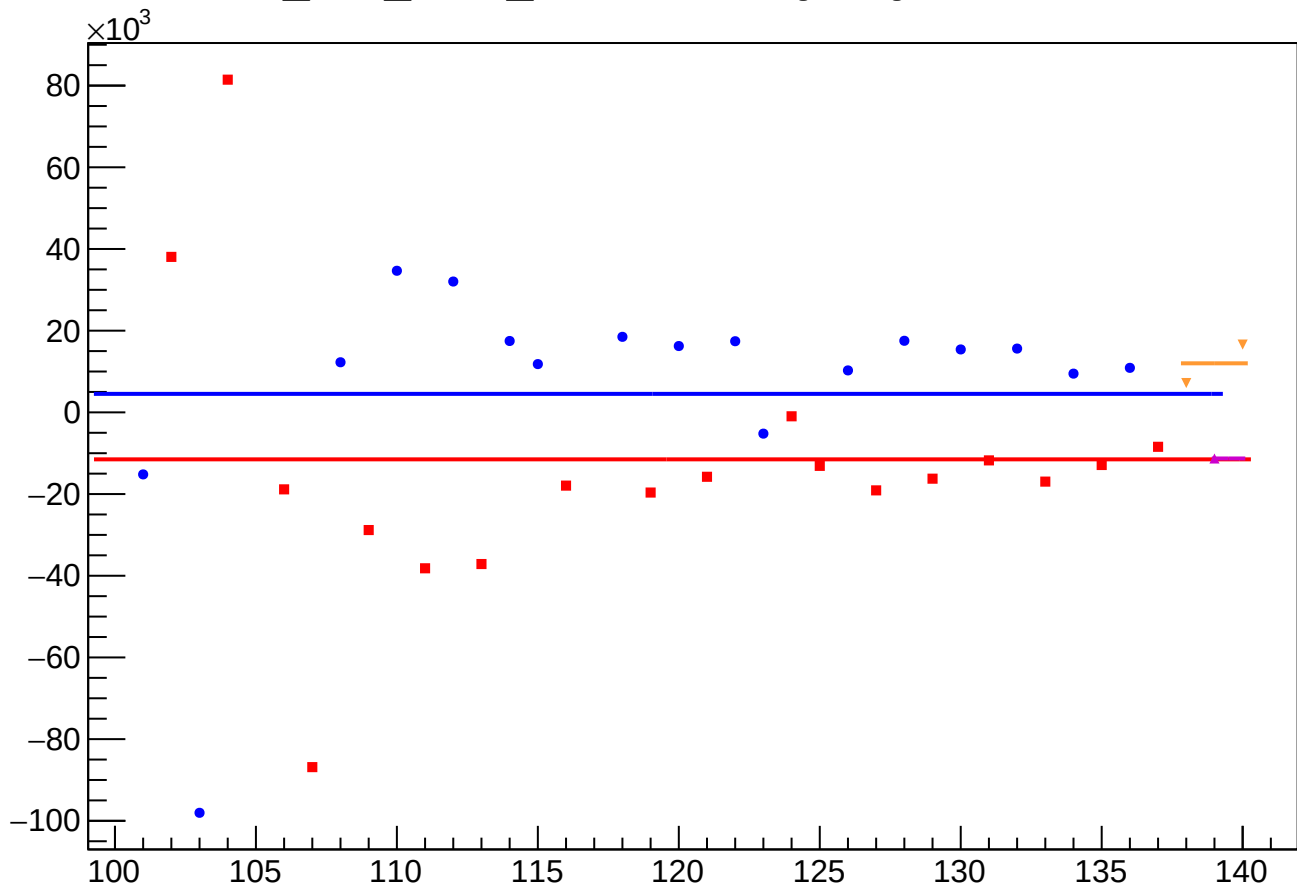
Right In: 799.524+/-0.000  $\chi^2/\text{NDF}$ : 112536154235498414231657645251770712064.0/16  
 Left Out: 572.308+/-0.000  $\chi^2/\text{NDF}$ : 5362352456829277211131272099983785984.0/1  
 Right Out: -757.193+/-0.000  $\chi^2/\text{NDF}$ : 76794158982285513543711222288246374400.0/17  
 Left In: -570.862+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 35.640+/-0.000  $\chi^2/\text{NDF}$ : 1124968991360

dit\_usr\_coil7\_Ndata\_mean vs Slug, Sign Corrected



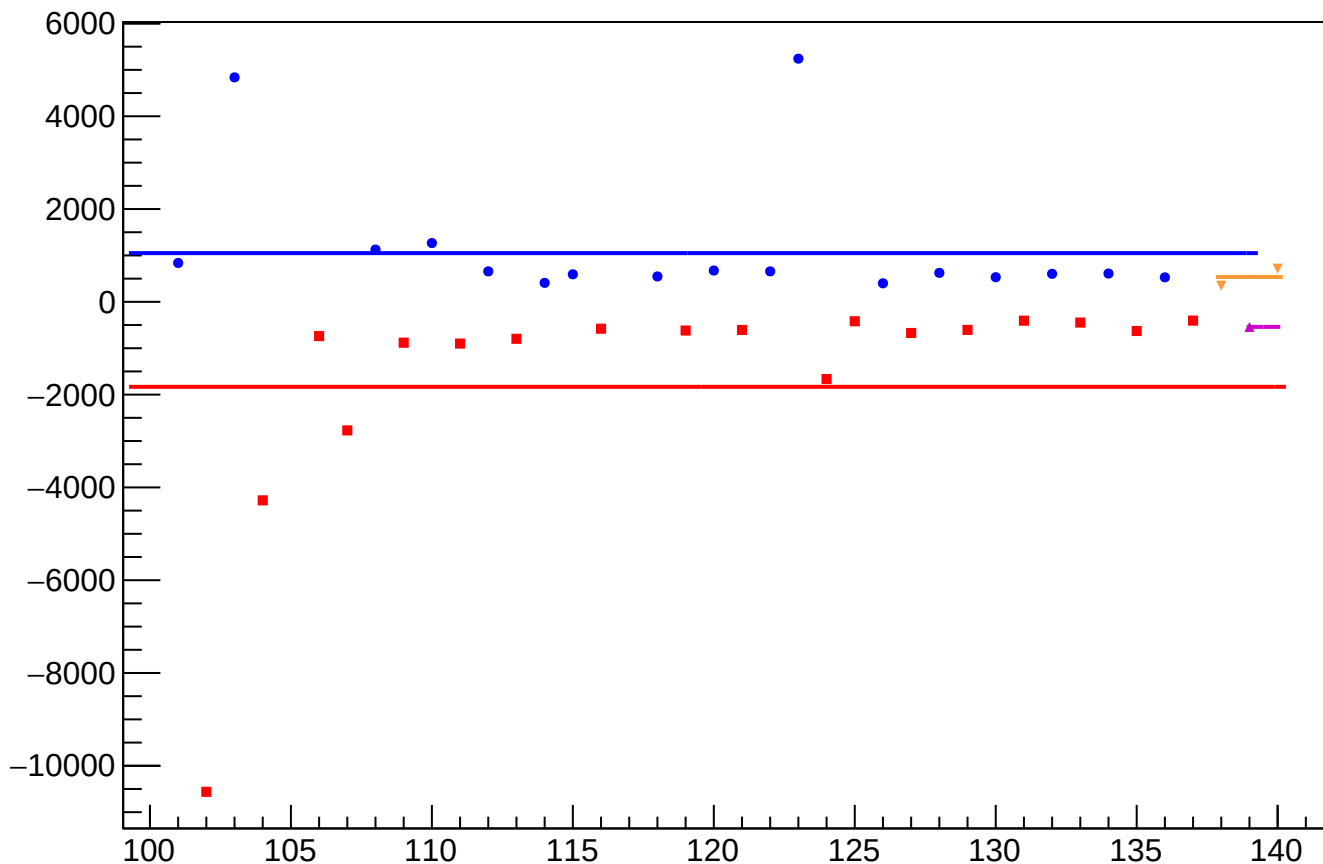
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_atl1\_coil7\_mean vs Slug, Sign Corrected



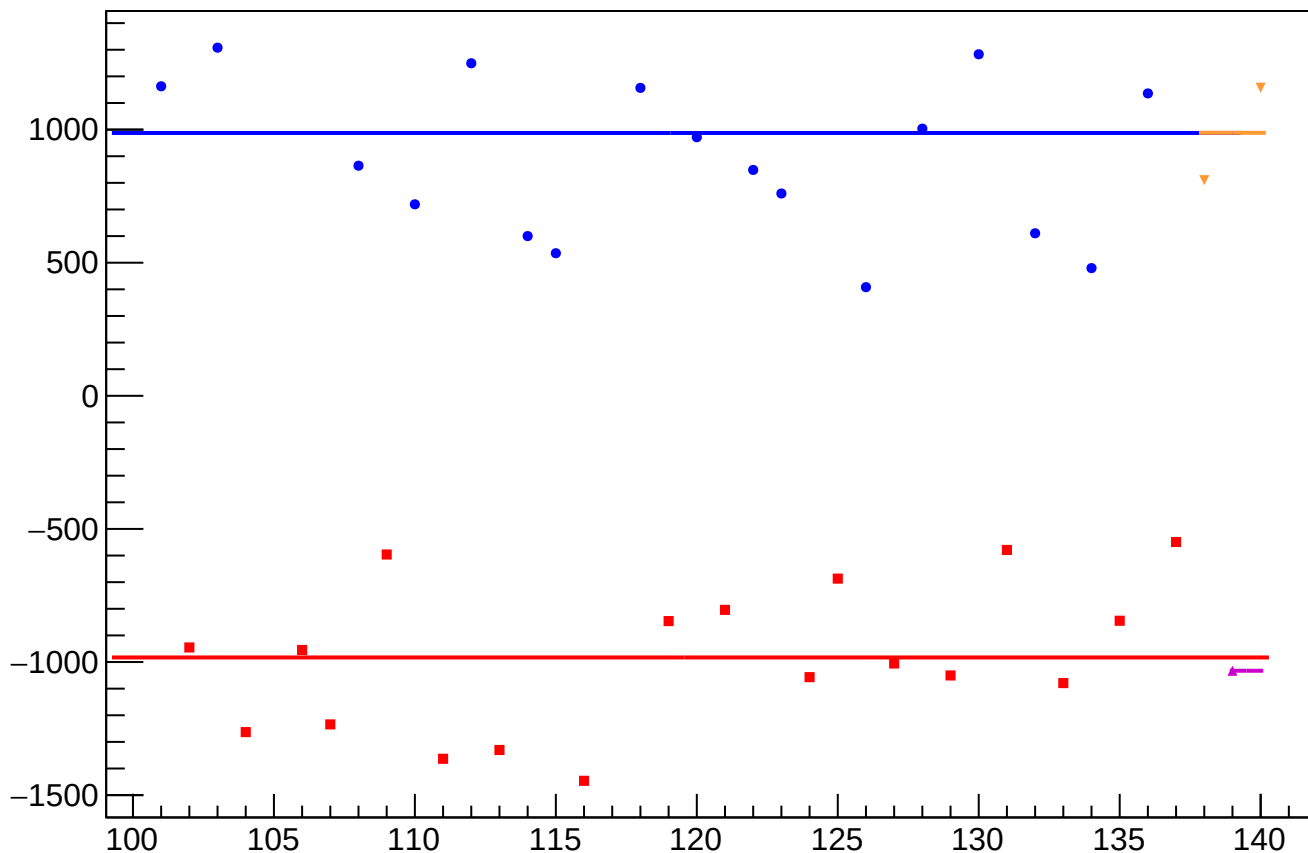
Right In: 4528.489+/-0.000  $\chi^2/\text{NDF}$ : 765984421186945141508299673026645807071232.0/16  
 Left Out: 12006.754+/-0.000  $\chi^2/\text{NDF}$ : 3544106008741359734006891081569868447744.0/1  
 Right Out: -11503.298+/-0.000  $\chi^2/\text{NDF}$ : 877839720750399952947204251622051720200192.0/17  
 Left In: -11290.477+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -2470.021+/-0.000  $\chi^2/\text{NDF}$ : 1779537994

dit\_atl1\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 1049.780+/-0.000  $\chi^2/\text{NDF}$ : 1038421858157169578640574748223478956032.0/16  
 Left Out: 535.909+/-0.000  $\chi^2/\text{NDF}$ : 5421314492387154907670829744764485632.0/1  
 Right Out: -1831.763+/-0.000  $\chi^2/\text{NDF}$ : 5560667897153995144780835972954558824448.0/17  
 Left In: -539.951+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -326.760+/-0.000  $\chi^2/\text{NDF}$ : 96617963834

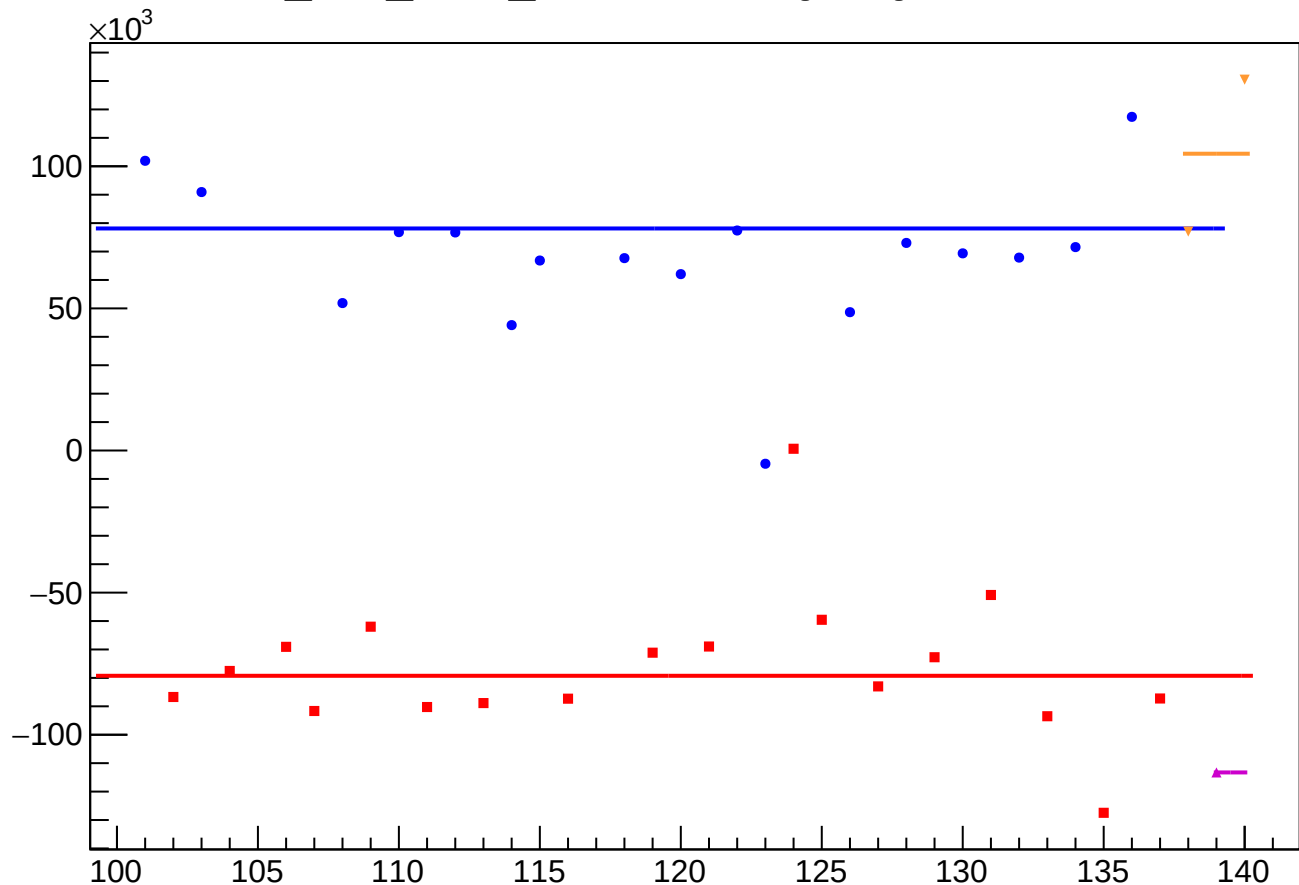
dit\_atl1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |



# dit\_atl2\_coil7\_mean vs Slug, Sign Corrected



Right In: 78120.227+/-0.000

Left Out: 104418.111+/-0.000

Right Out: -79260.499+/-0.000

Left In: -113260.534+/-0.000

$\chi^2/\text{NDF}$ : 308820964030920149649775995002991312633856.0/16

$\chi^2/\text{NDF}$ : 114157314324595264920818192101933508984832.0/1

$\chi^2/\text{NDF}$ : 303215964703866066986504542190112711114752.0/17

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

Left: 31256.408+/-0.000

Right: -1742.952+/-0.000

In: 58117.851+/-0.000

Out: -45673.553+/-0.000

$\chi^2/\text{NDF}$ : 26622757478719

$\chi^2/\text{NDF}$ : 9334870875198

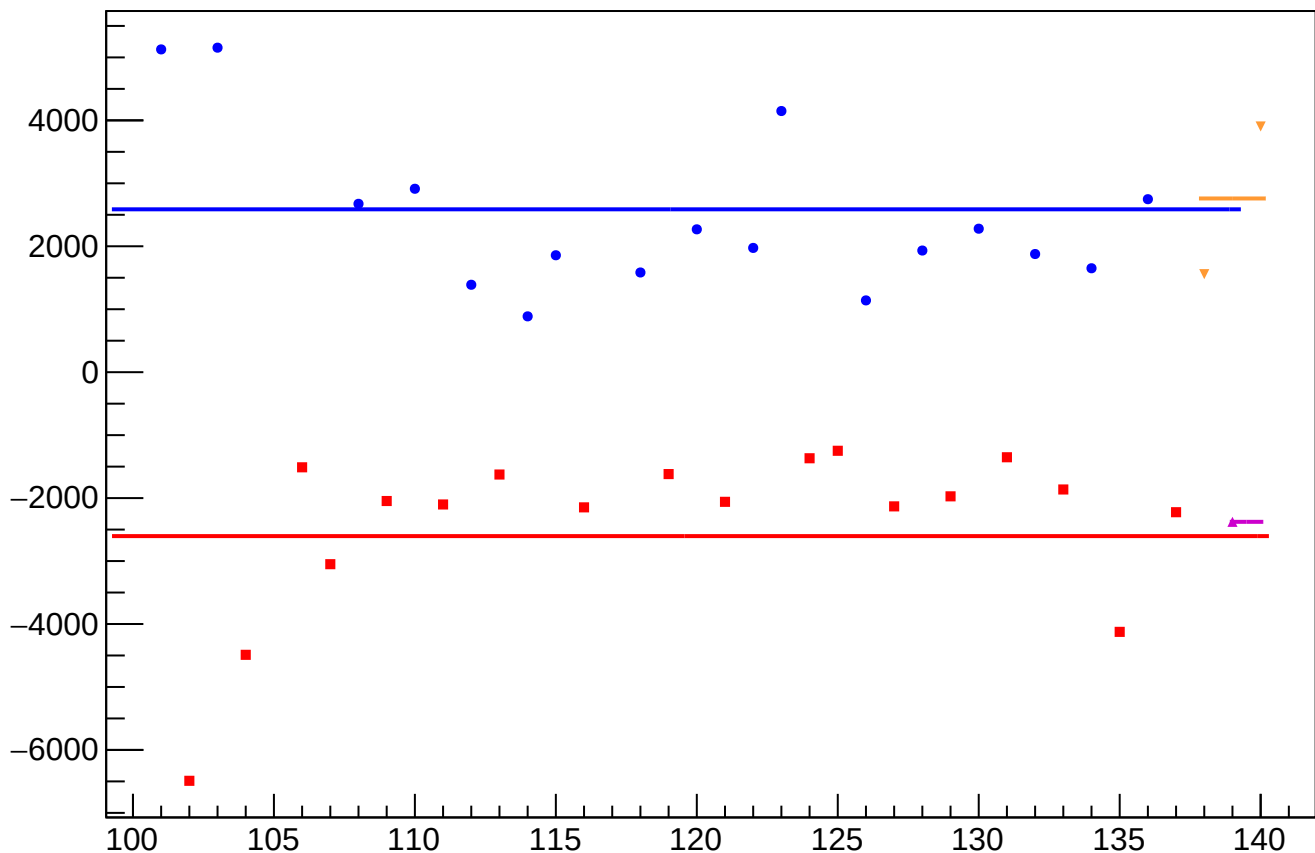
$\chi^2/\text{NDF}$ : 296550154749020

$\chi^2/\text{NDF}$ : 4828353766389

All: 3076.955+/-0.000

$\chi^2/\text{NDF}$ : 12221253473

dit\_atl2\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 2586.924+/-0.000

$\chi^2/\text{NDF}$ : 1122415737488478857695553804598689923072.0/16

Left Out: 2759.240+/-0.000

$\chi^2/\text{NDF}$ : 220017873210960126018996106589343055872.0/1

Right Out: -2603.762+/-0.000

$\chi^2/\text{NDF}$ : 1547340202870581842616287406625719844864.0/17

Left In: -2376.996+/-0.000

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

Left: 1032.953+/-0.000  $\chi^2/\text{NDF}$ : 16386762827621

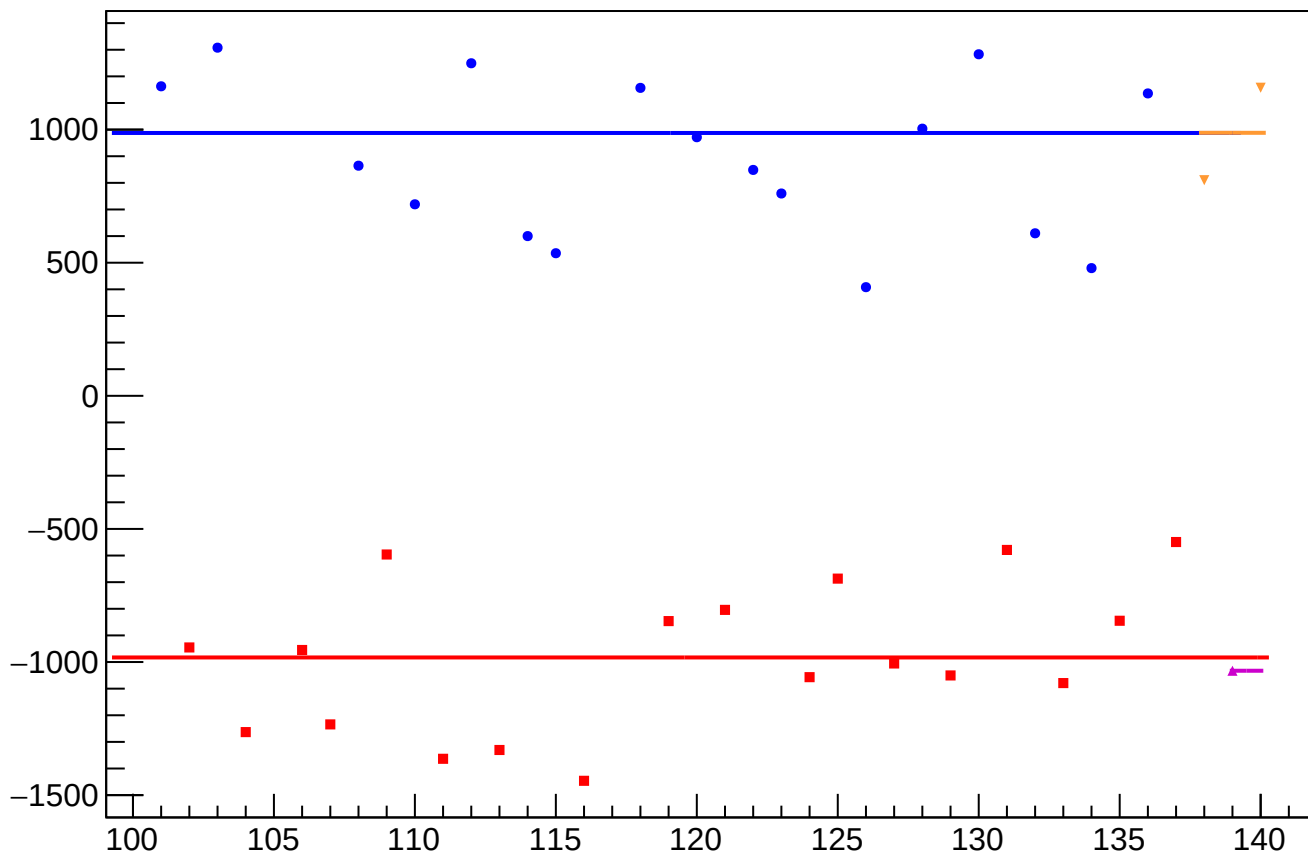
Right: -47.101+/-0.000  $\chi^2/\text{NDF}$ : 121583994305653

In: 2068.115+/-0.000  $\chi^2/\text{NDF}$ : 2909694727802429

Out: -1623.099+/-0.000  $\chi^2/\text{NDF}$ : 55277568764091

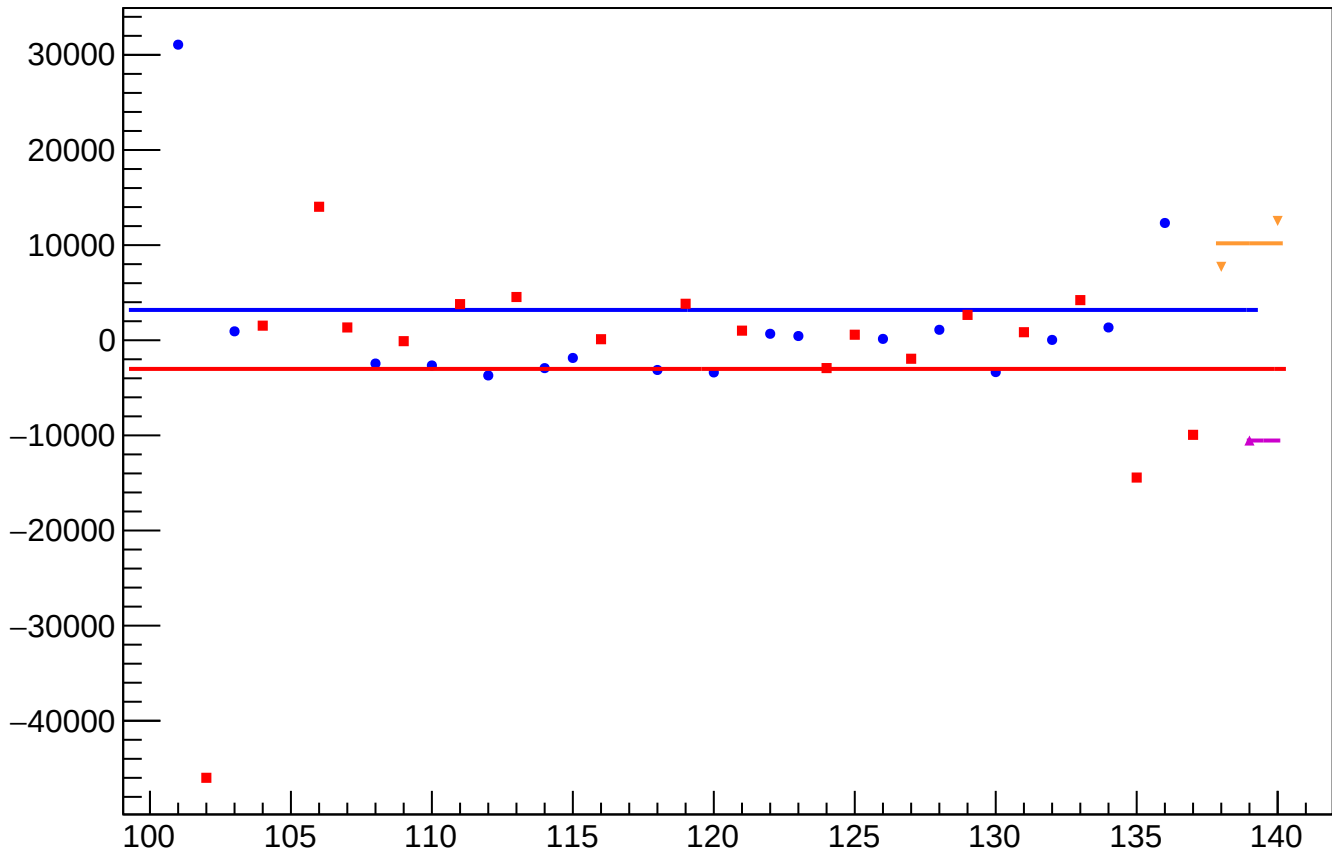
All: 110.653+/-0.000  $\chi^2/\text{NDF}$ : 14037143970

dit\_atl2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16  
 Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1  
 Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17  
 Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0  
 Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272  
 Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972  
 In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146  
 Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567  
 All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

# dit\_atr1\_coil7\_mean vs Slug, Sign Corrected



Right In: 3187.051+/-0.000

Left Out: 10190.095+/-0.000

Right Out: -3012.400+/-0.000

Left In: -10539.994+/-0.000

$\chi^2/\text{NDF}$ : 66270389171193911836791515591398561677312.0/16

$\chi^2/\text{NDF}$ : 930344331683802010363260706459832287232.0/1

$\chi^2/\text{NDF}$ : 138157018088298657463529912150565226283008.0/17

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

Left: 3222.721+/-0.000  $\chi^2/\text{NDF}$ : 240398305491977

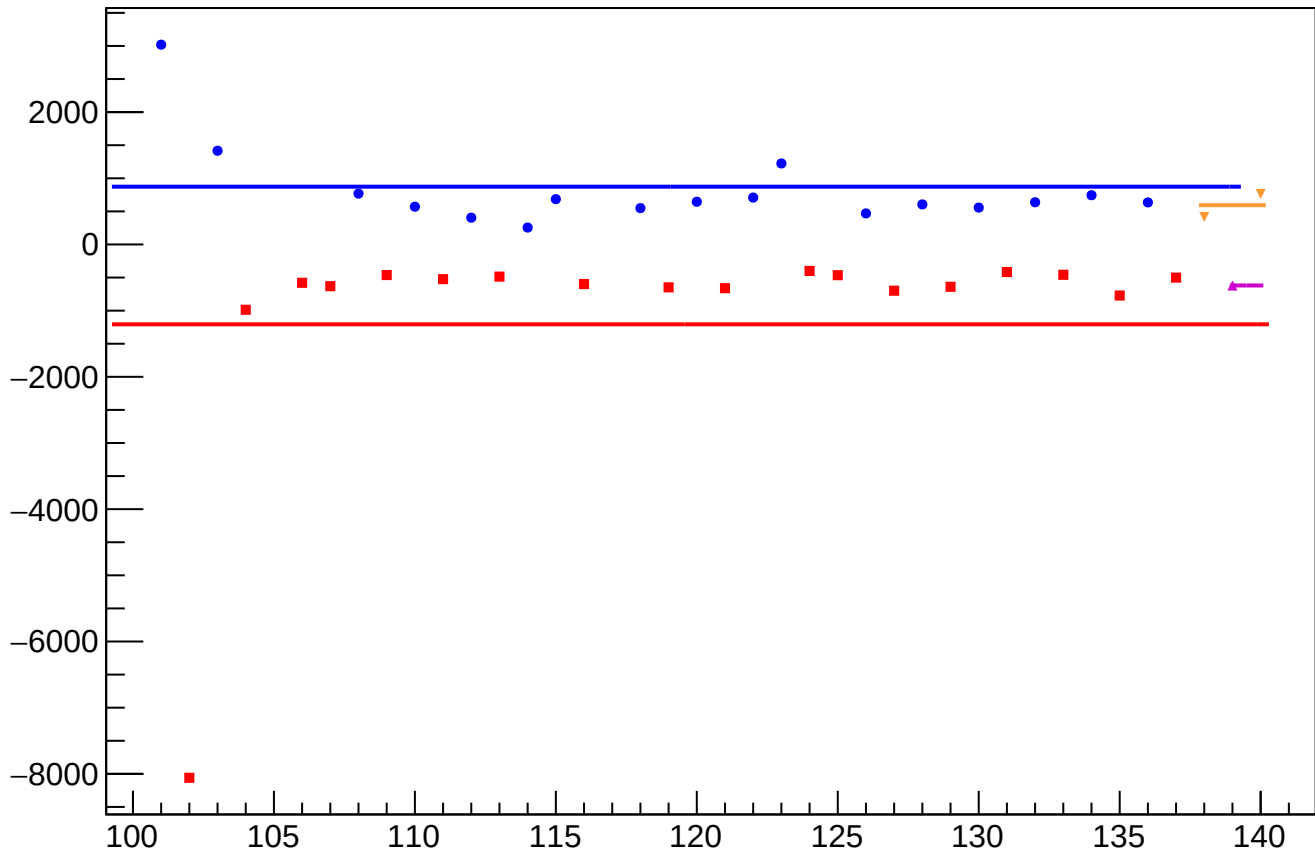
Right: 41.126+/-0.000  $\chi^2/\text{NDF}$ : 2179624925912222

In: 1752.353+/-0.000  $\chi^2/\text{NDF}$ : 7993813475851063

Out: -598.230+/-0.000  $\chi^2/\text{NDF}$ : 161876611480443

All: 505.832+/-0.000  $\chi^2/\text{NDF}$ : 244085536266

dit\_atr1\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 873.306+/-0.000

$\chi^2/\text{NDF}$ : 340993590653355605867273192516364533760.0/16

Left Out: 593.820+/-0.000

$\chi^2/\text{NDF}$ : 4828734643514911755709075815919517696.0/1

Right Out: -1206.661+/-0.000

$\chi^2/\text{NDF}$ : 2979483538609797767268010500388070359040.0/17

Left In: -619.748+/-0.000

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

Left: 185.940+/-0.000  $\chi^2/\text{NDF}$ : 8402699673351698

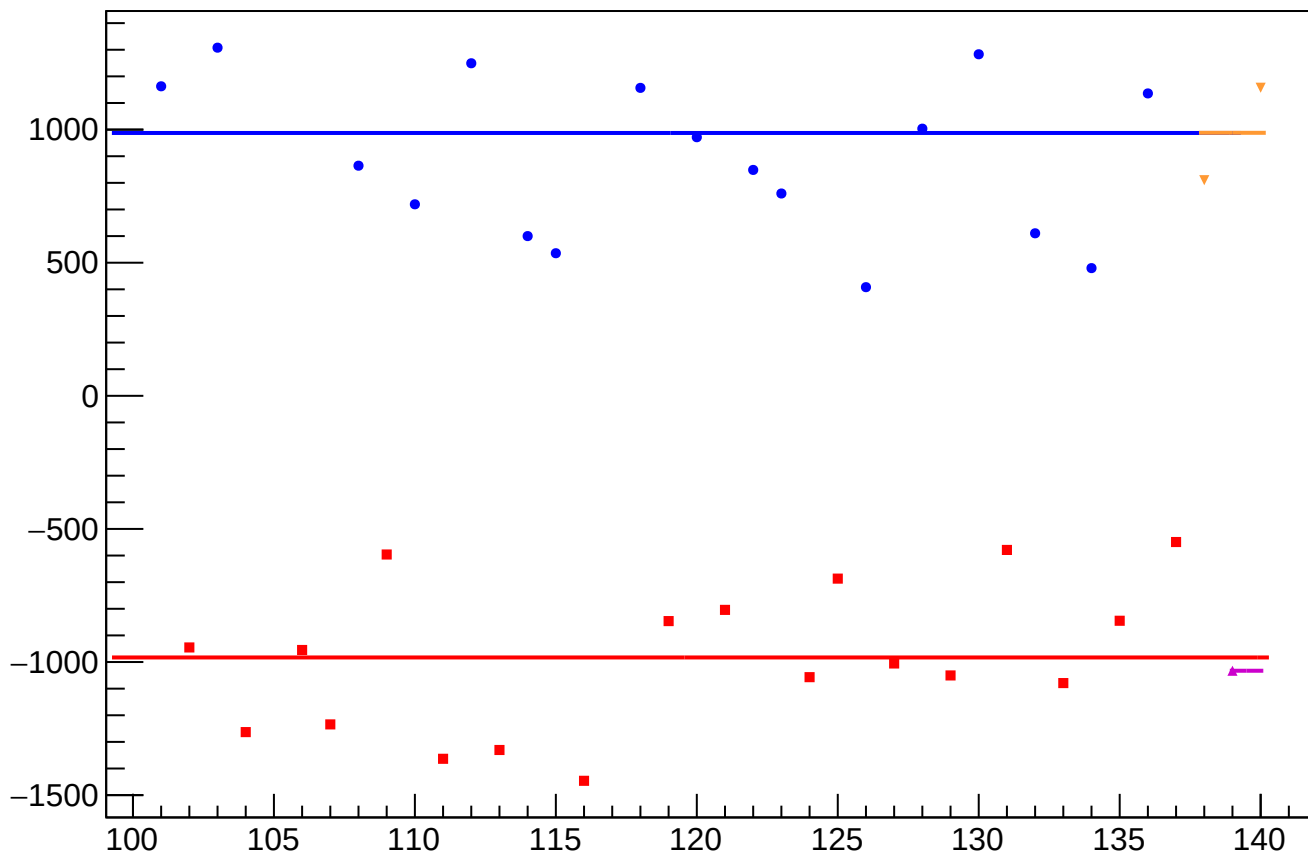
Right: -182.178+/-0.000  $\chi^2/\text{NDF}$ : 48440648254414

In: 717.258+/-0.000  $\chi^2/\text{NDF}$ : 5026874375598264

Out: -877.431+/-0.000  $\chi^2/\text{NDF}$ : 340814551659363

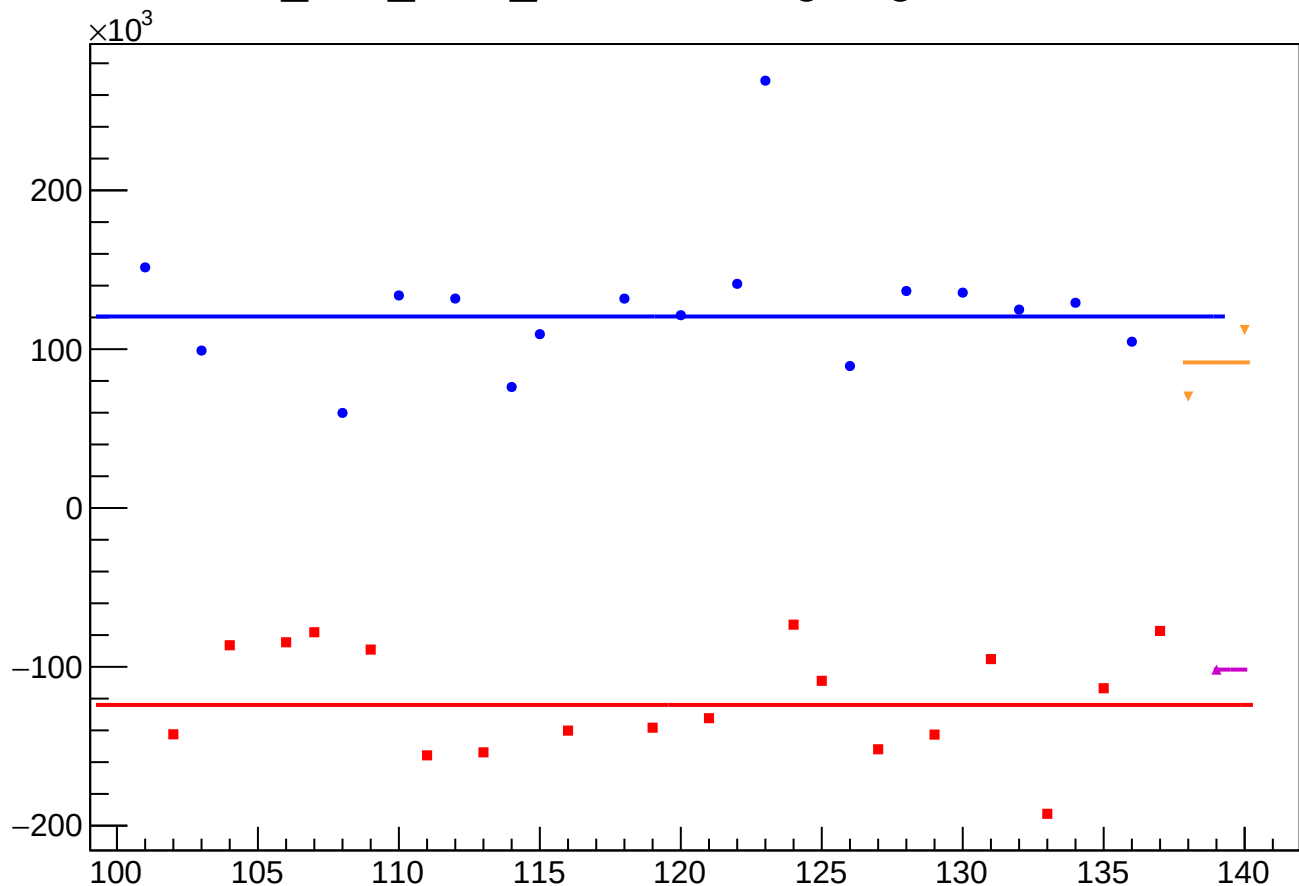
All: -128.410+/-0.000  $\chi^2/\text{NDF}$ : 49559798788

dit\_atr1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



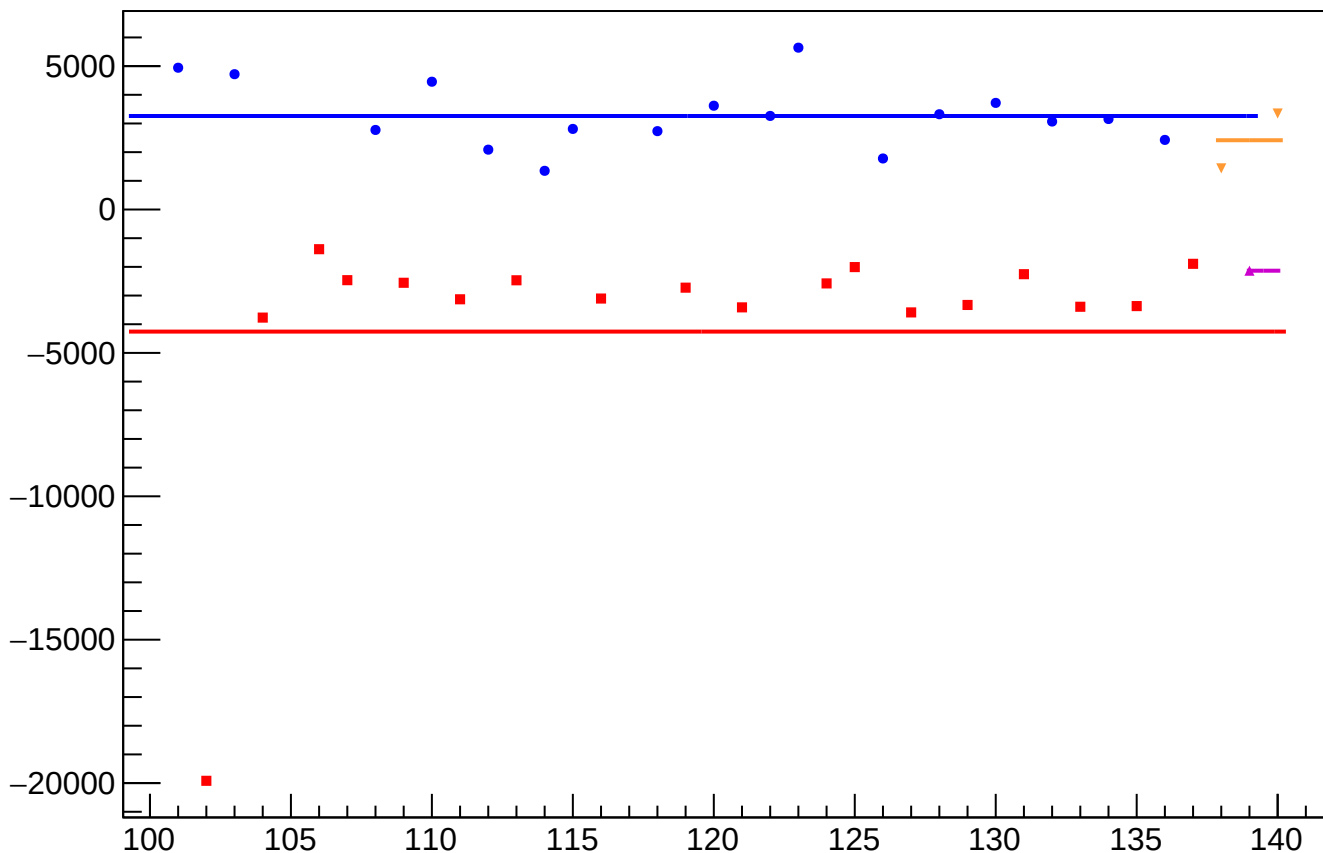
|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_atr2\_coil7\_mean vs Slug, Sign Corrected



Right In: 120586.708 $\pm$ 0.000  $\chi^2$ /NDF: 463702909226593065118055925390873188106240.0/16  
 Left Out: 91666.930 $\pm$ 0.000  $\chi^2$ /NDF: 70249867785114372287505115587932388851712.0/1  
 Right Out: -123970.573 $\pm$ 0.000  $\chi^2$ /NDF: 754871099831913254311543250015602251661312.0/17  
 Left In: -101737.472 $\pm$ 0.000  $\chi^2$ /NDF: 17152417181.9/0  
 All: 893.448 $\pm$ 0.000  $\chi^2$ /NDF: 245505341984

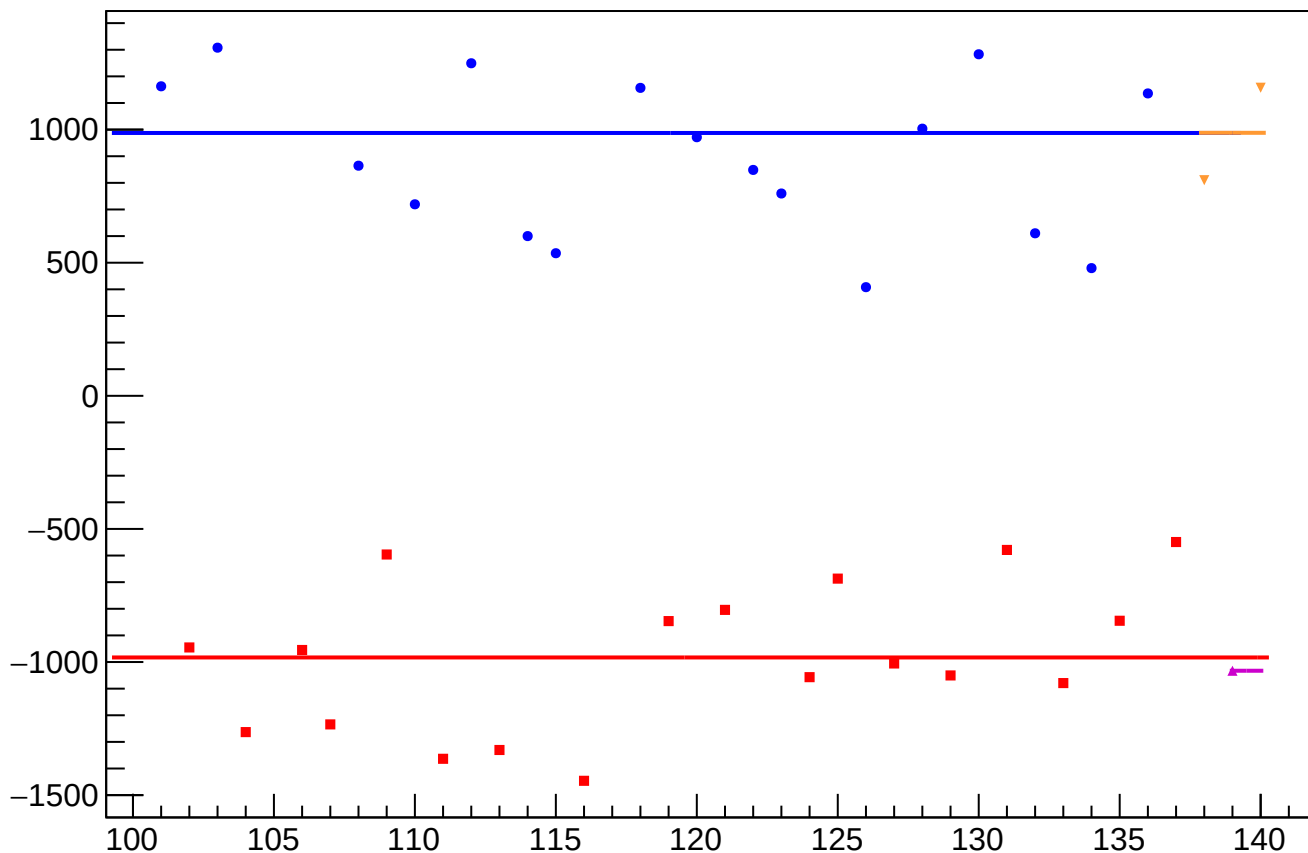
dit\_atr2\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 3260.820 +/- 0.000  $\chi^2/\text{NDF}$ : 672456168638567614426723356415113560064.0/16  
 Left Out: 2415.480 +/- 0.000  $\chi^2/\text{NDF}$ : 146254771977412928066166120799033884672.0/1  
 Right Out: -4256.861 +/- 0.000  $\chi^2/\text{NDF}$ : 15744364448860197338037677656678376407040.0/17  
 Left In: -2133.588 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -343.630 +/- 0.000  $\chi^2/\text{NDF}$ : 38006175191

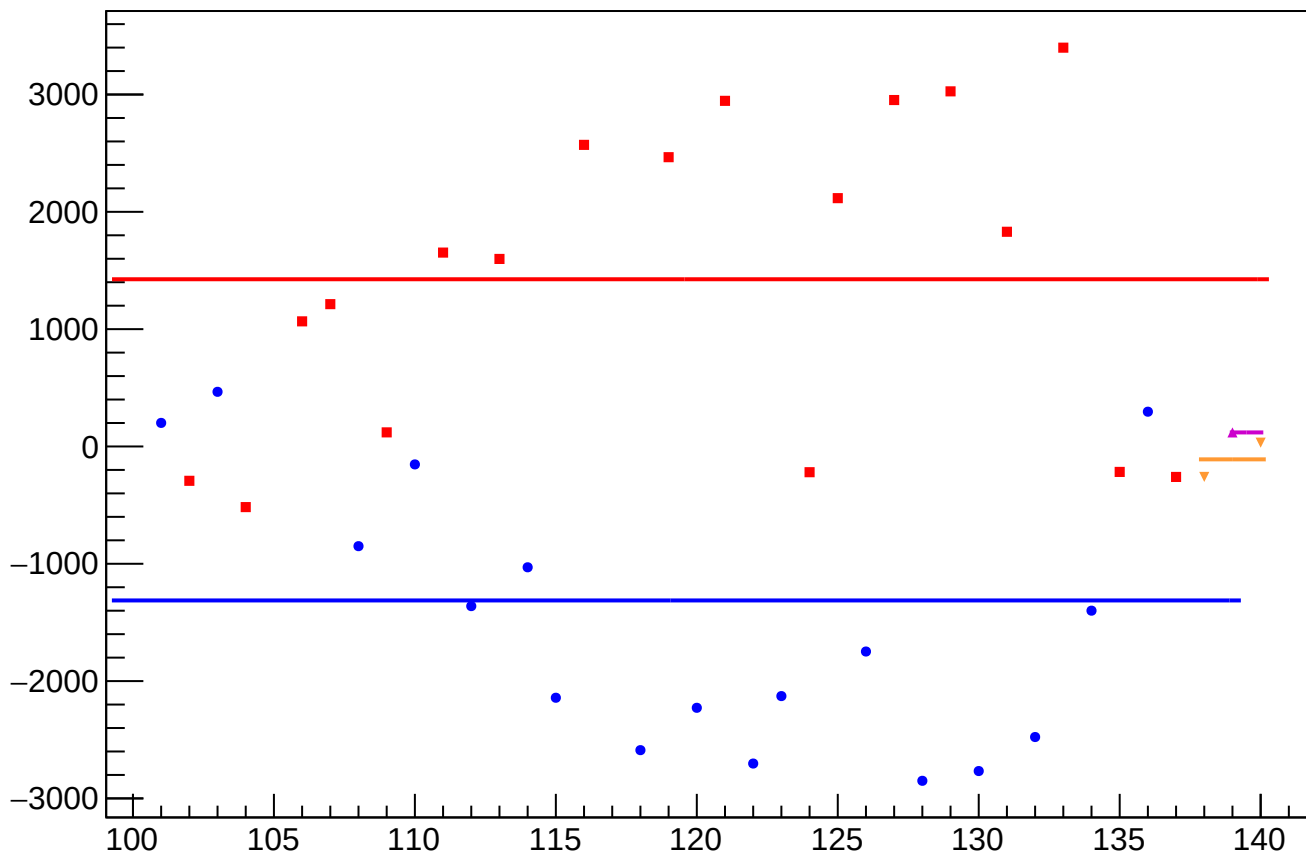


dit\_atr2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_sam1\_coil7\_mean vs Slug, Sign Corrected



Right In: -1312.539+/-0.000

$\chi^2/\text{NDF}$ : 1111791822009253468495433607153226612736.0/16

Left Out: -109.920+/-0.000

$\chi^2/\text{NDF}$ : 3407617529372018284508992472719818752.0/1

Right Out: 1425.319+/-0.000

$\chi^2/\text{NDF}$ : 1259772432394270570555753847649915109376.0/17

Left In: 119.652+/-0.000

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

Left: -32.761+/-0.000  $\chi^2/\text{NDF}$ : 6241771089926445

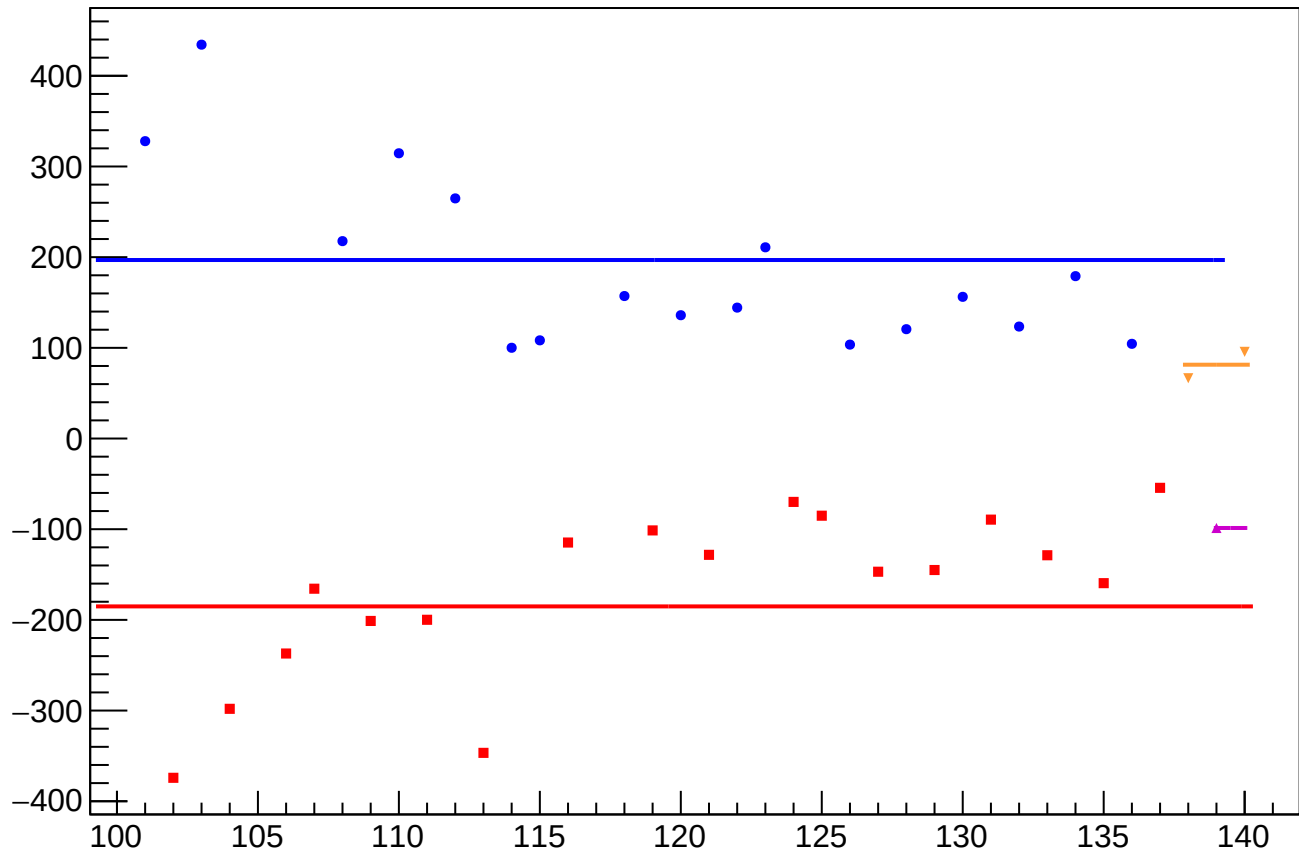
Right: 76.793+/-0.000  $\chi^2/\text{NDF}$ : 5011395418904363

In: -1162.852+/-0.000  $\chi^2/\text{NDF}$ : 126057175202374

Out: 1144.589+/-0.000  $\chi^2/\text{NDF}$ : 157133526804004

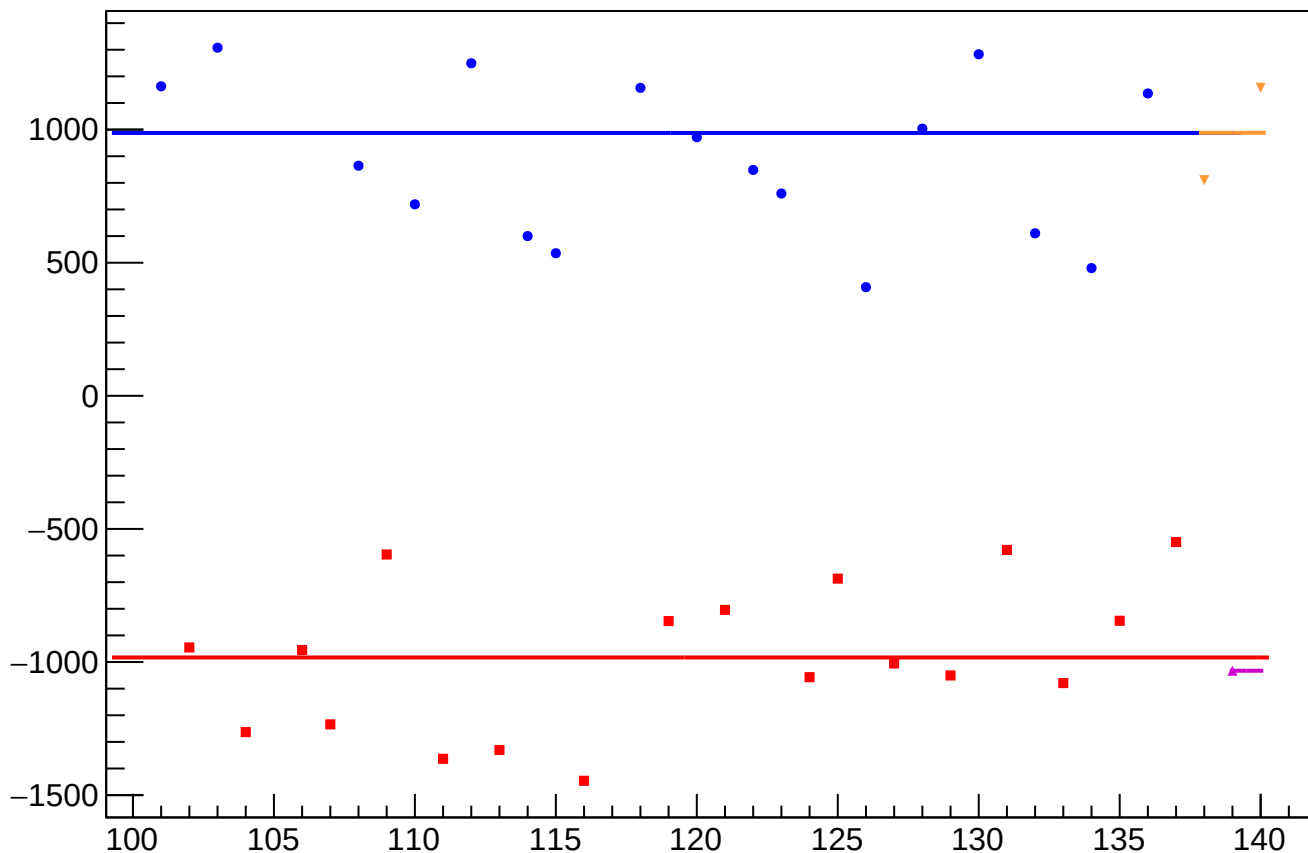
All: 60.791+/-0.000  $\chi^2/\text{NDF}$ : 5020107187515

# dit\_sam1\_coil7\_err\_mean vs Slug, Sign Corrected



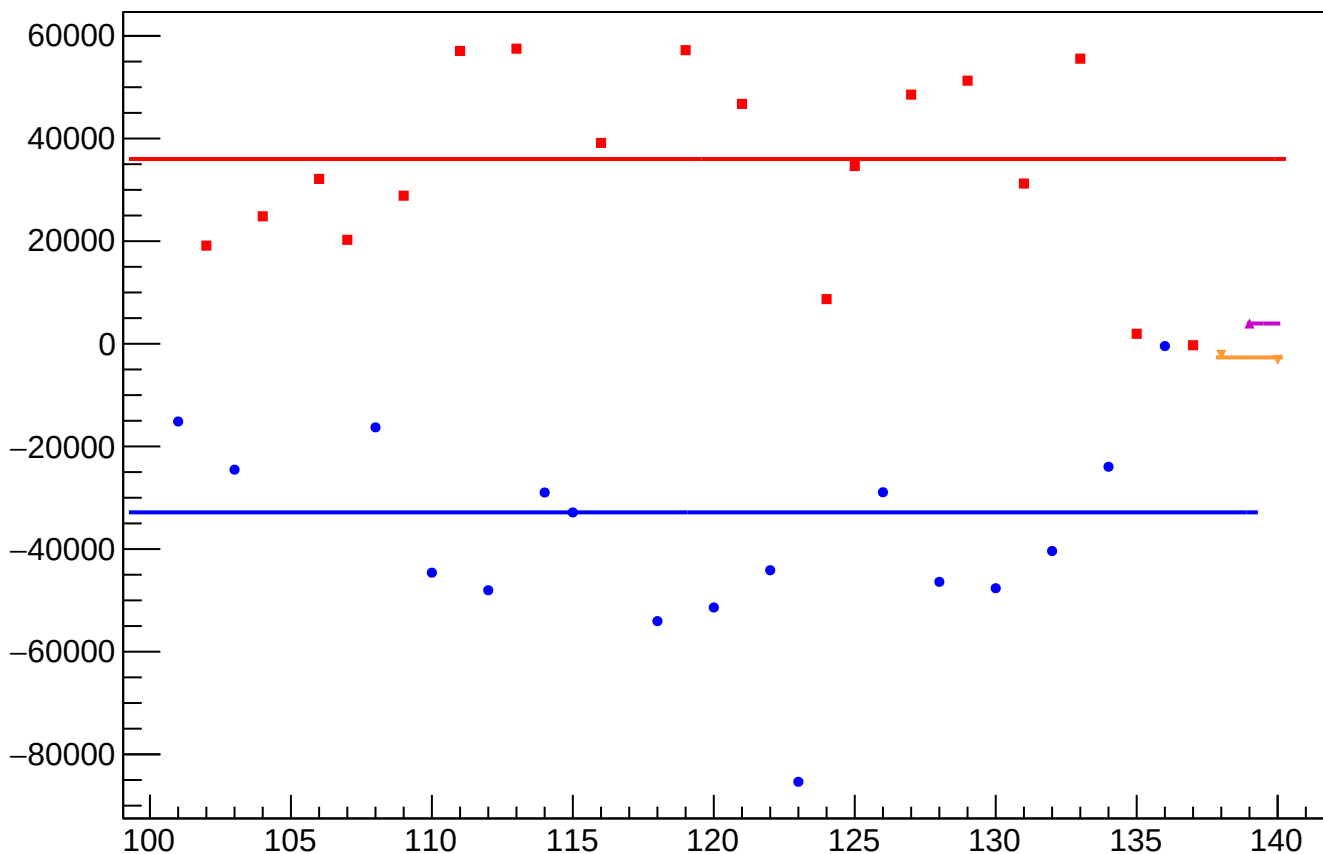
Right In: 196.858+/-0.000  $\chi^2/\text{NDF}$ : 7337666778319090402870822115647422464.0/16  
 Left: 20.885+/-0.000  $\chi^2/\text{NDF}$ : 17773526499451772  
 Right: 3.015+/-0.000  $\chi^2/\text{NDF}$ : 64886813076898683  
 Left Out: 81.404+/-0.000  $\chi^2/\text{NDF}$ : 33846769523147969970754994676170752.0/1  
 In: 165.972+/-0.000  $\chi^2/\text{NDF}$ : 13671981920098796  
 Right Out: -185.135+/-0.000  $\chi^2/\text{NDF}$ : 6160706554997434160213032977968398336.0/17  
 Out: -136.397+/-0.000  $\chi^2/\text{NDF}$ : 154829223008264  
 Left In: -98.657+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 5.625+/-0.000  $\chi^2/\text{NDF}$ : 6672989208639

dit\_sam1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16  
 Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1  
 Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17  
 Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0  
 Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272  
 Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972  
 In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146  
 Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567  
 All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

dit\_sam2\_coil7\_mean vs Slug, Sign Corrected



Right In: -32846.038+/-0.000

$\chi^2/\text{NDF}$ : 219637368732777746312600570455176987541504.0/16

Left: -432.808+/-0.000  $\chi^2/\text{NDF}$ : 238904799988409

Right: 2099.121+/-0.000  $\chi^2/\text{NDF}$ : 21185895144652

Left Out: -2655.177+/-0.000

$\chi^2/\text{NDF}$ : 37875575151153930729749789963288838144.0/1

Right Out: 36017.918+/-0.000

$\chi^2/\text{NDF}$ : 228867649175680979480074989628486510968832.0/17

Left In: 3957.057+/-0.000

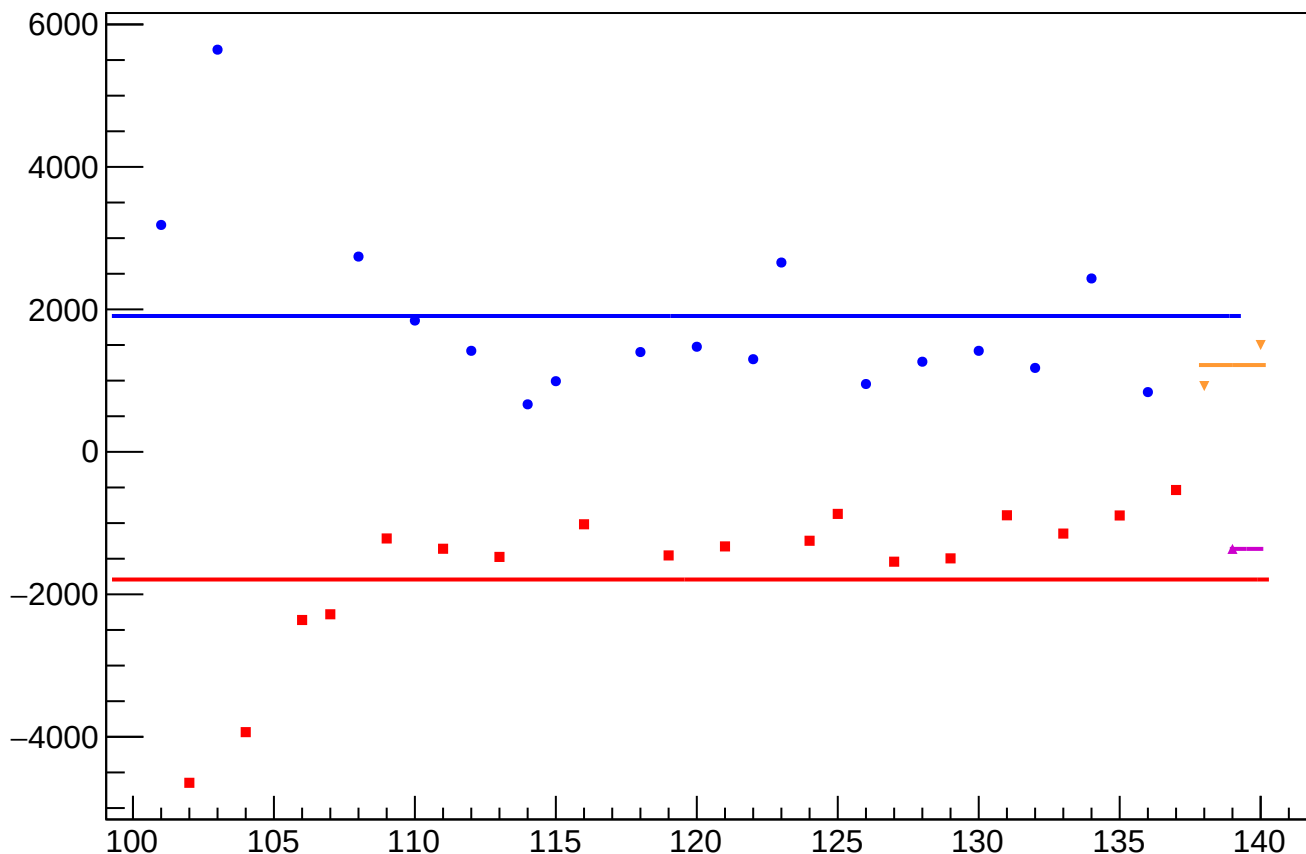
$\chi^2/\text{NDF}$ : 0.0/0

In: -28999.521+/-0.000  $\chi^2/\text{NDF}$ : 31788259789718

Out: 28946.266+/-0.000  $\chi^2/\text{NDF}$ : 42444562379555

All: 1729.306+/-0.000  $\chi^2/\text{NDF}$ : 21222978730

dit\_sam2\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 1907.271+/-0.000

$\chi^2/\text{NDF}$ : 1224904405299911350916968067746563620864.0/16

Left Out: 1218.702+/-0.000

$\chi^2/\text{NDF}$ : 13267654198070010892728053199659859968.0/1

Right Out: -1791.825+/-0.000

$\chi^2/\text{NDF}$ : 941640864566938486349149292441762791424.0/17

Left In: -1361.926+/-0.000

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

Left: 351.354+/-0.000  $\chi^2/\text{NDF}$ : 3713959751916525

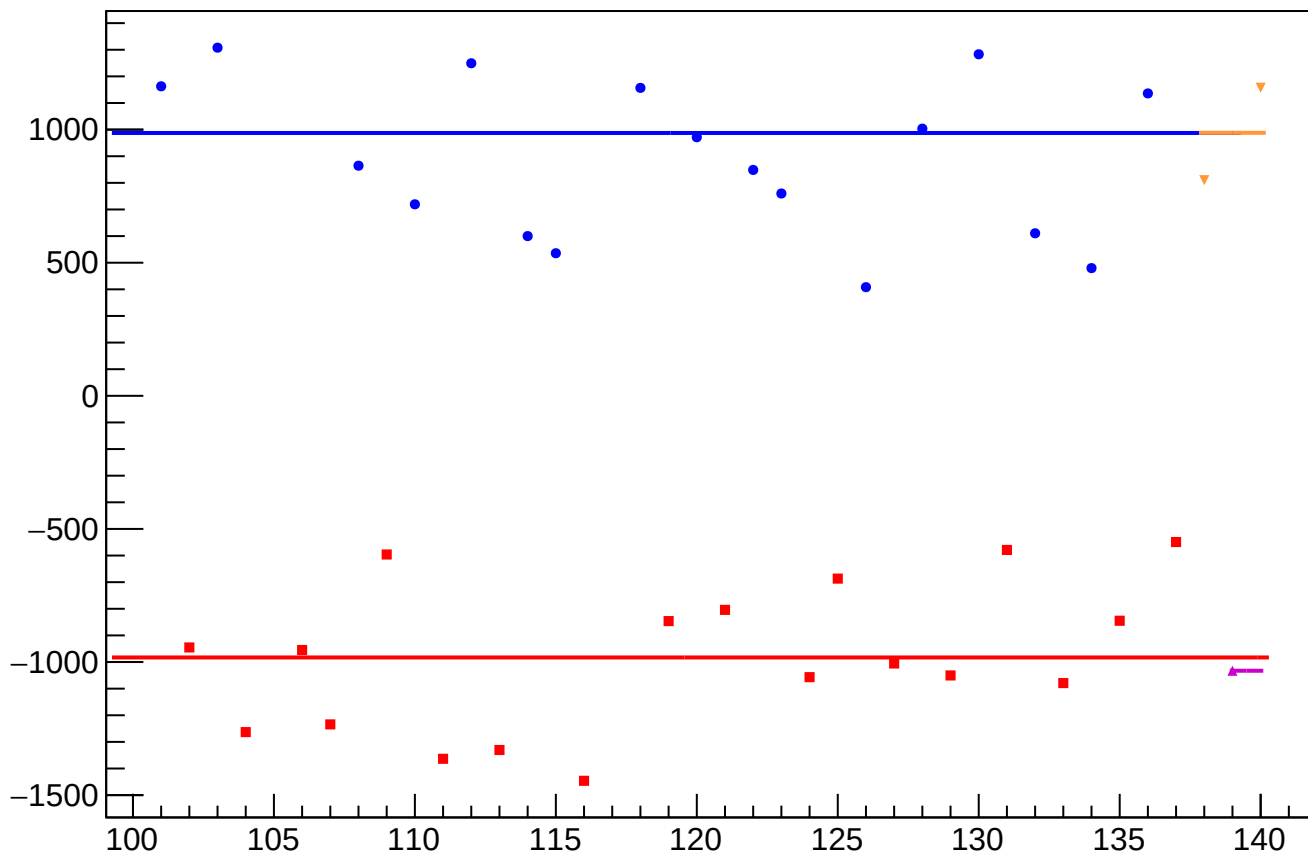
Right: 30.157+/-0.000  $\chi^2/\text{NDF}$ : 6985422461142234

In: 1565.587+/-0.000  $\chi^2/\text{NDF}$ : 2000124404261713

Out: -1241.329+/-0.000  $\chi^2/\text{NDF}$ : 21398669199175

All: 77.071+/-0.000  $\chi^2/\text{NDF}$ : 7378050262074

dit\_sam2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

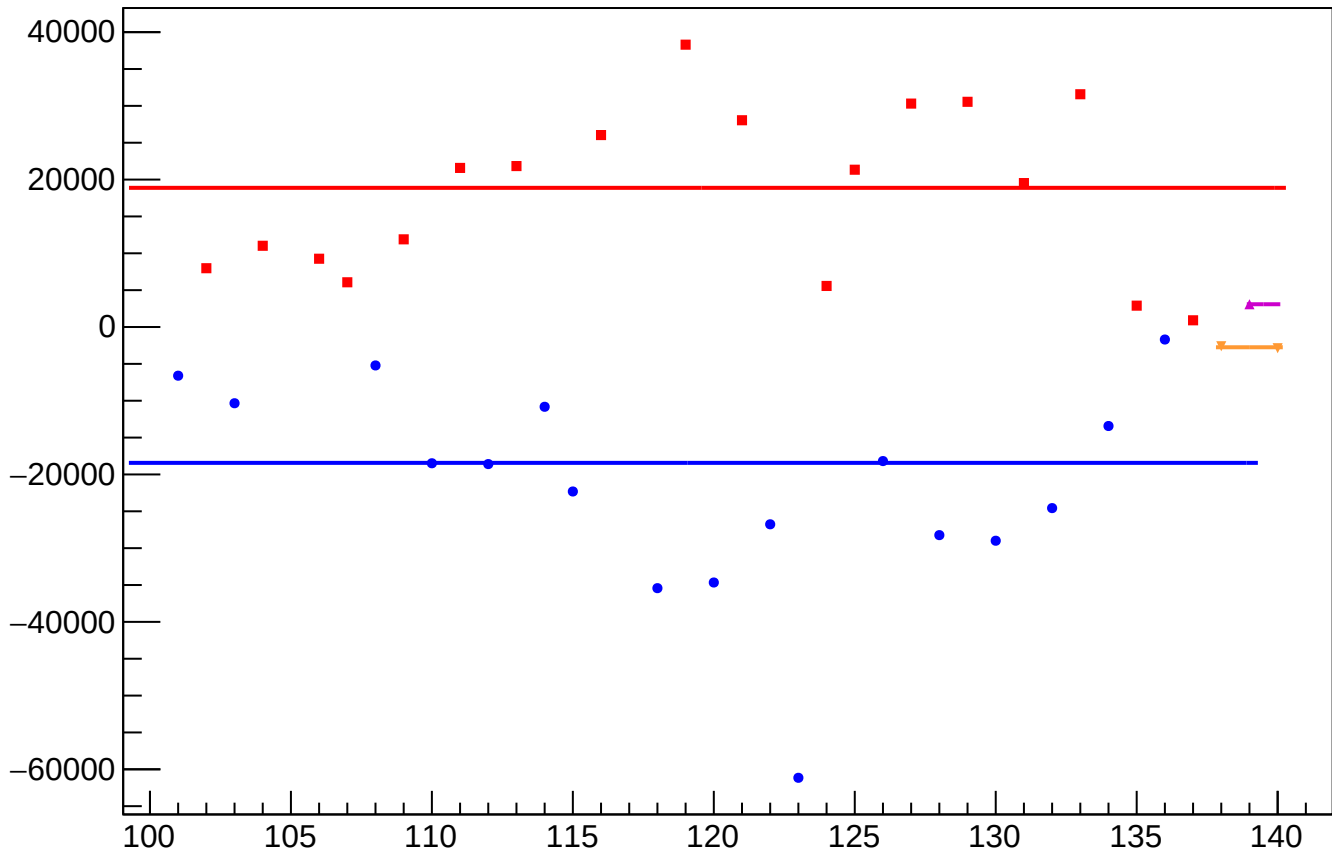
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

dit\_sam3\_coil7\_mean vs Slug, Sign Corrected



Right In: -18428.768+/-0.000

$\chi^2/\text{NDF}$ : 91790167940984507561863911678204862005248.0/16

Left Out: -2747.503+/-0.000

$\chi^2/\text{NDF}$ : 2833790139556923523852260978641076224.0/1

Right Out: 18880.571+/-0.000

$\chi^2/\text{NDF}$ : 85627666736634579824962235279591398703104.0/17

Left In: 3089.250+/-0.000

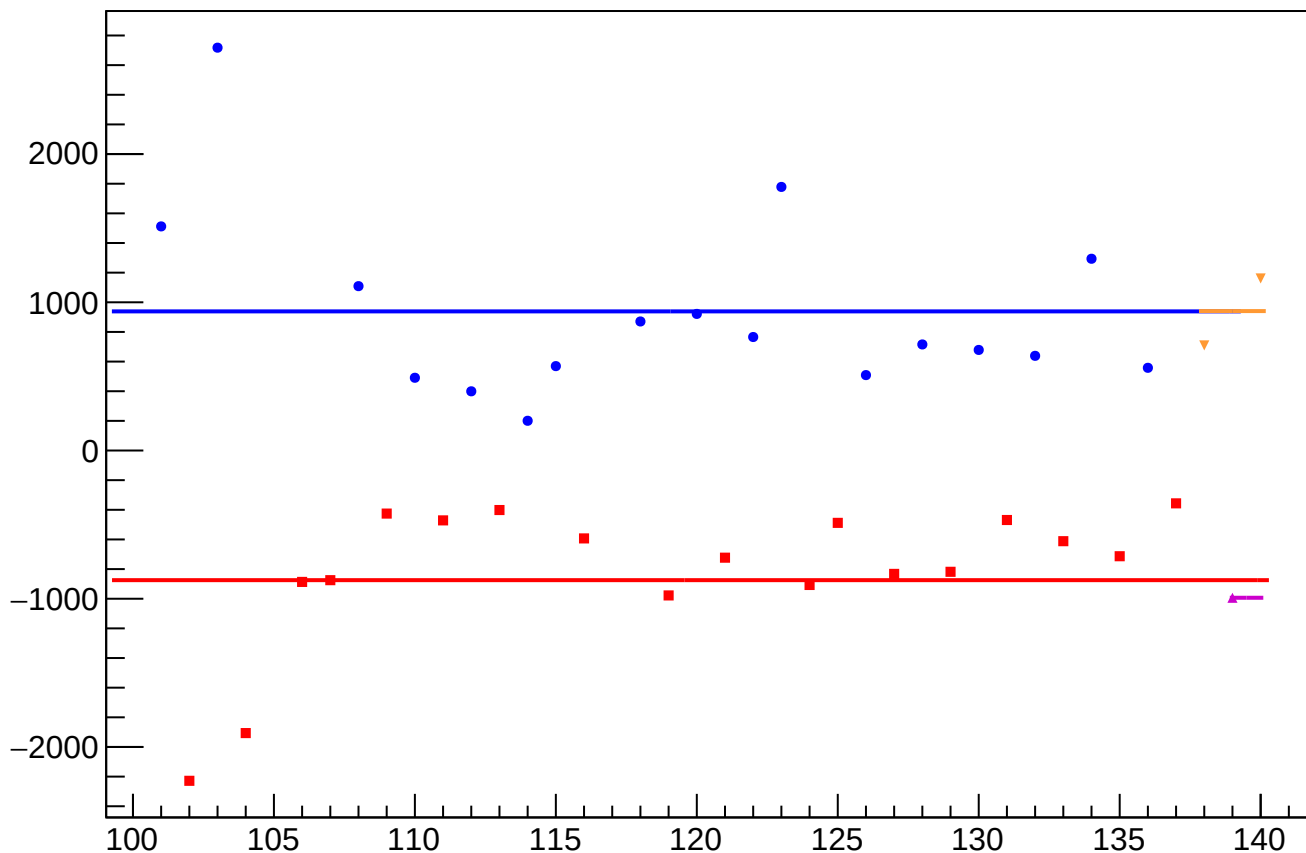
$\chi^2/\text{NDF}$ : 16750407.4/0

Out: 14925.724+/-0.000  $\chi^2/\text{NDF}$ : 14678855860763

All: 315.559+/-0.000  $\chi^2/\text{NDF}$ : 669813452537



# dit\_sam3\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 938.658+/-0.000

$\chi^2/\text{NDF}$ : 274123287156186942430302567816841134080.0/16

Left: 290.626+/-0.000  $\chi^2/\text{NDF}$ : 2093226186552187

Right: 18.480+/-0.000  $\chi^2/\text{NDF}$ : 1644825947456125

Left Out: 940.682+/-0.000

$\chi^2/\text{NDF}$ : 8157429582196158529499977683012943872.0/1

In: 736.723+/-0.000  $\chi^2/\text{NDF}$ : 5448917906309714

Right Out: -874.671+/-0.000

$\chi^2/\text{NDF}$ : 212705560210060381413787152265269739520.0/17

Out: -542.721+/-0.000  $\chi^2/\text{NDF}$ : 651726754629935

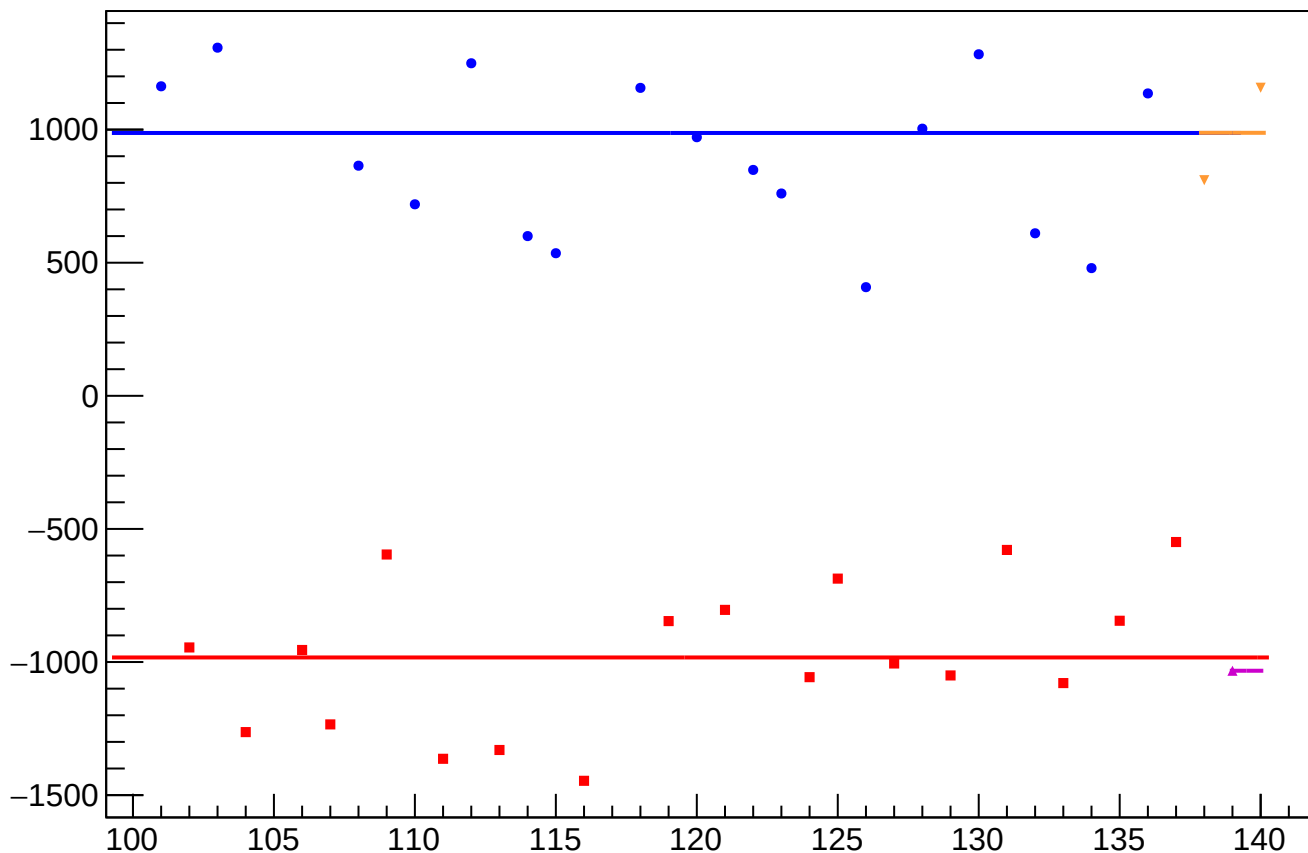
Left In: -993.434+/-0.000

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

All: 58.230+/-0.000

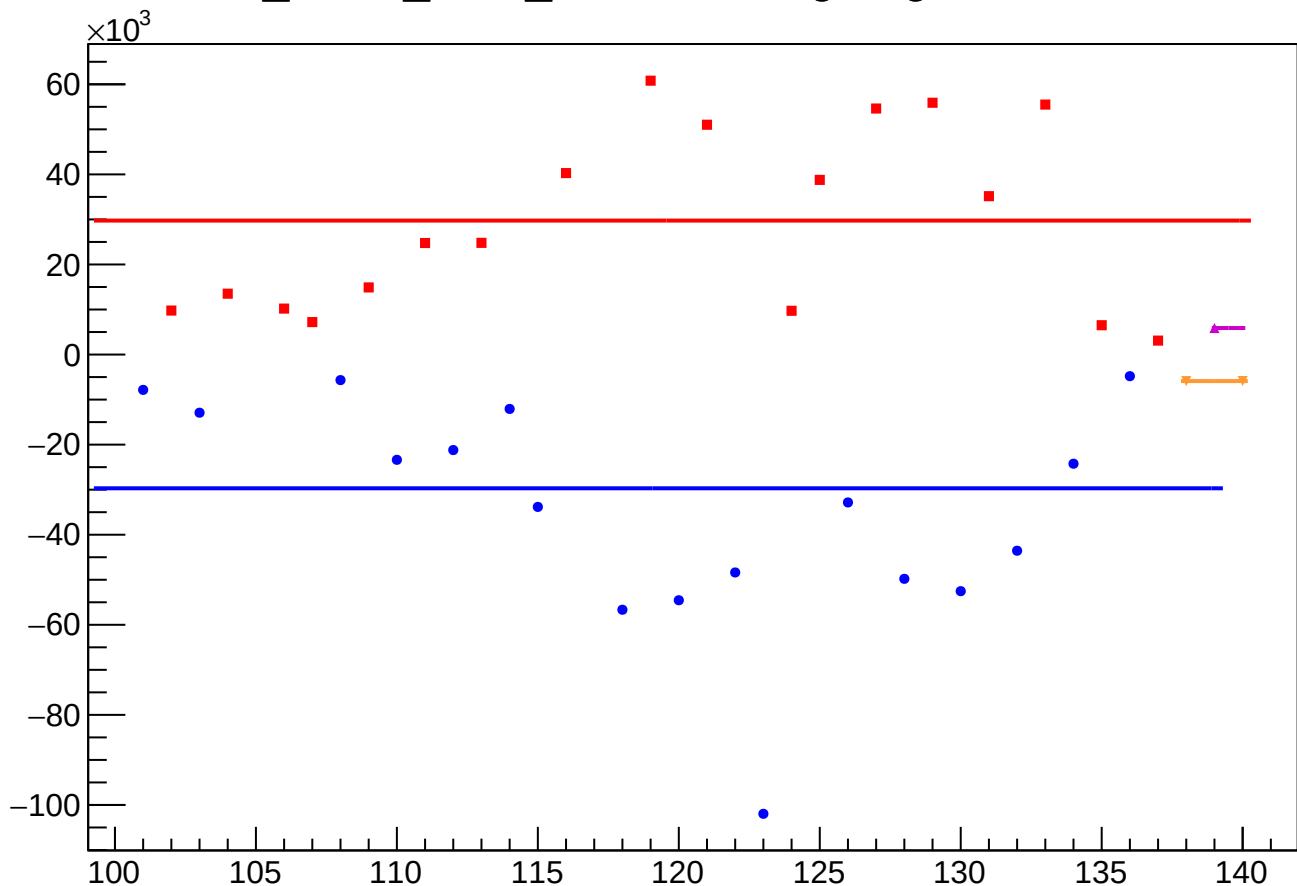
$\chi^2/\text{NDF}$ : 1869390782865

dit\_sam3\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $987.388 \pm 0.000$   $\chi^2/\text{NDF}: 52571386835815299758771040245189181440.0/16$   
 Left Out:  $987.975 \pm 0.000$   $\chi^2/\text{NDF}: 4822184975672300177523512052558069760.0/1$   
 Right Out:  $-982.831 \pm 0.000$   $\chi^2/\text{NDF}: 48106250951114292454819733992816771072.0/17$   
 Left In:  $-1032.741 \pm 0.000$   $\chi^2/\text{NDF}: 4187601.9/0$   
 All:  $34.513 \pm 0.000$   $\chi^2/\text{NDF}: 1713363522257$

# dit\_sam4\_coil7\_mean vs Slug, Sign Corrected



Right In: -29694.846 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 282999478252028644685471433230520510578688.0/16

Left Out: -5887.878 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 21287524392174301527370090923687936.0/1

Right Out: 29744.384 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 283667805670372144788905534129497910018048.0/17

Left In: 5891.968 $\pm$ 0.000

$\chi^2/\text{NDF}$ : 67001629.6/0

Left: -1928.677 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 74622262510709

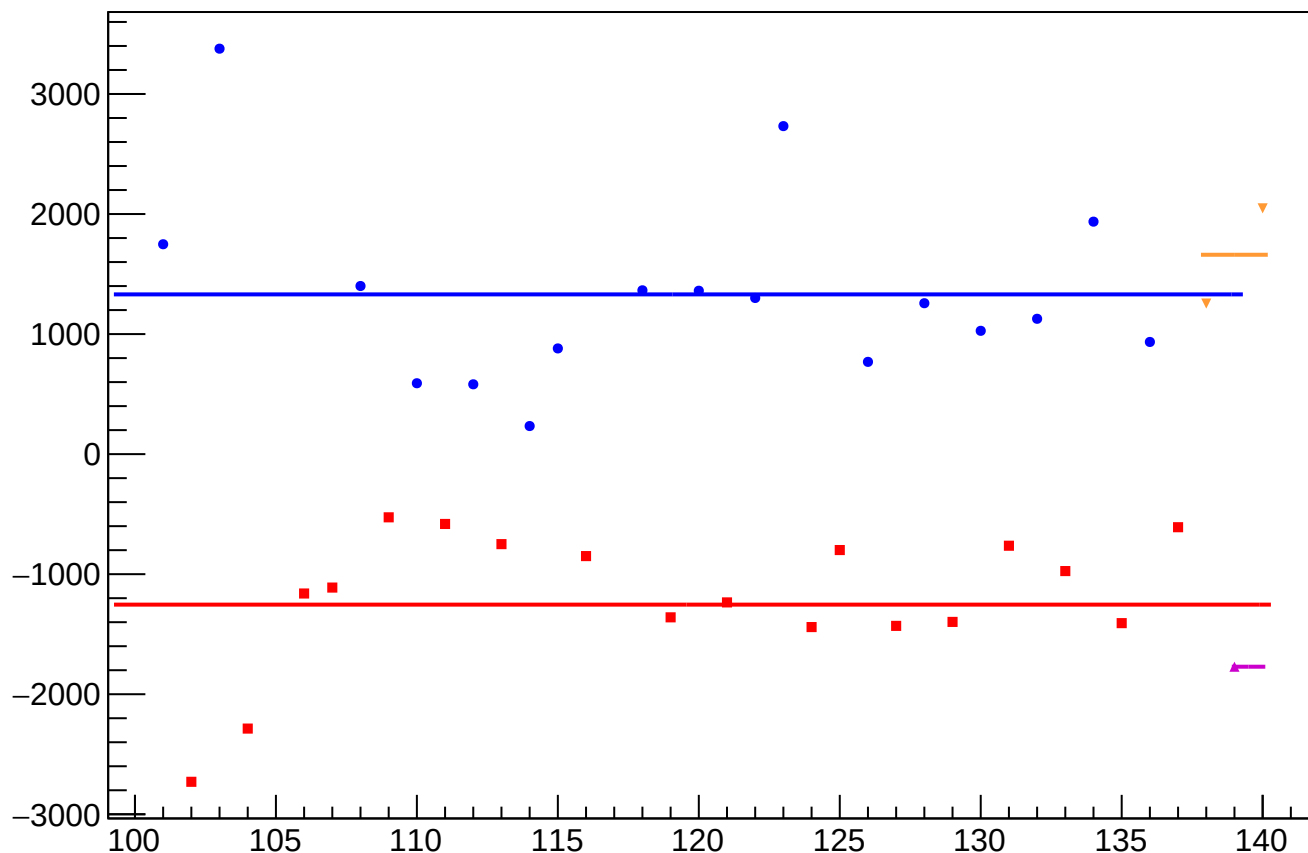
Right: 467.716 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 181089789808864

In: -25975.450 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 37485832990464

Out: 23228.771 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 44966655845603

All: 117.697 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 181954196782

dit\_sam4\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 1330.668+/-0.000

$\chi^2/\text{NDF}$ : 371034150705348959312326123153556242432.0/16

Left Out: 1660.780+/-0.000

$\chi^2/\text{NDF}$ : 25143045138173898088231319007559417856.0/1

Right Out: -1253.657+/-0.000

$\chi^2/\text{NDF}$ : 276351047411985398179849131600767877120.0/17

Left In: -1770.774+/-0.000

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

Left: 507.436+/-0.000  $\chi^2/\text{NDF}$ : 6583849826731476

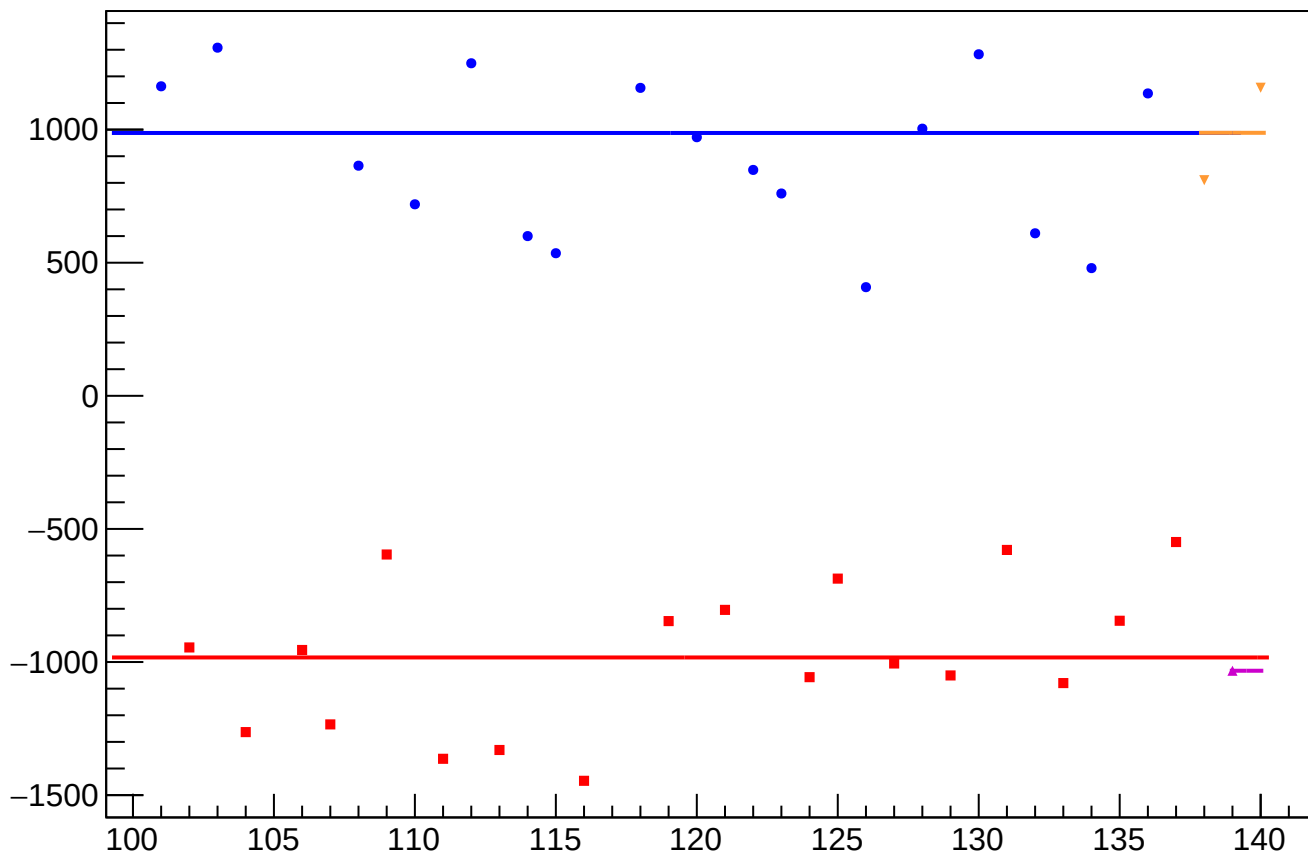
Right: 19.247+/-0.000  $\chi^2/\text{NDF}$ : 2999447438260348

In: 1006.518+/-0.000  $\chi^2/\text{NDF}$ : 1068736694015670

Out: -720.731+/-0.000  $\chi^2/\text{NDF}$ : 141201613160311

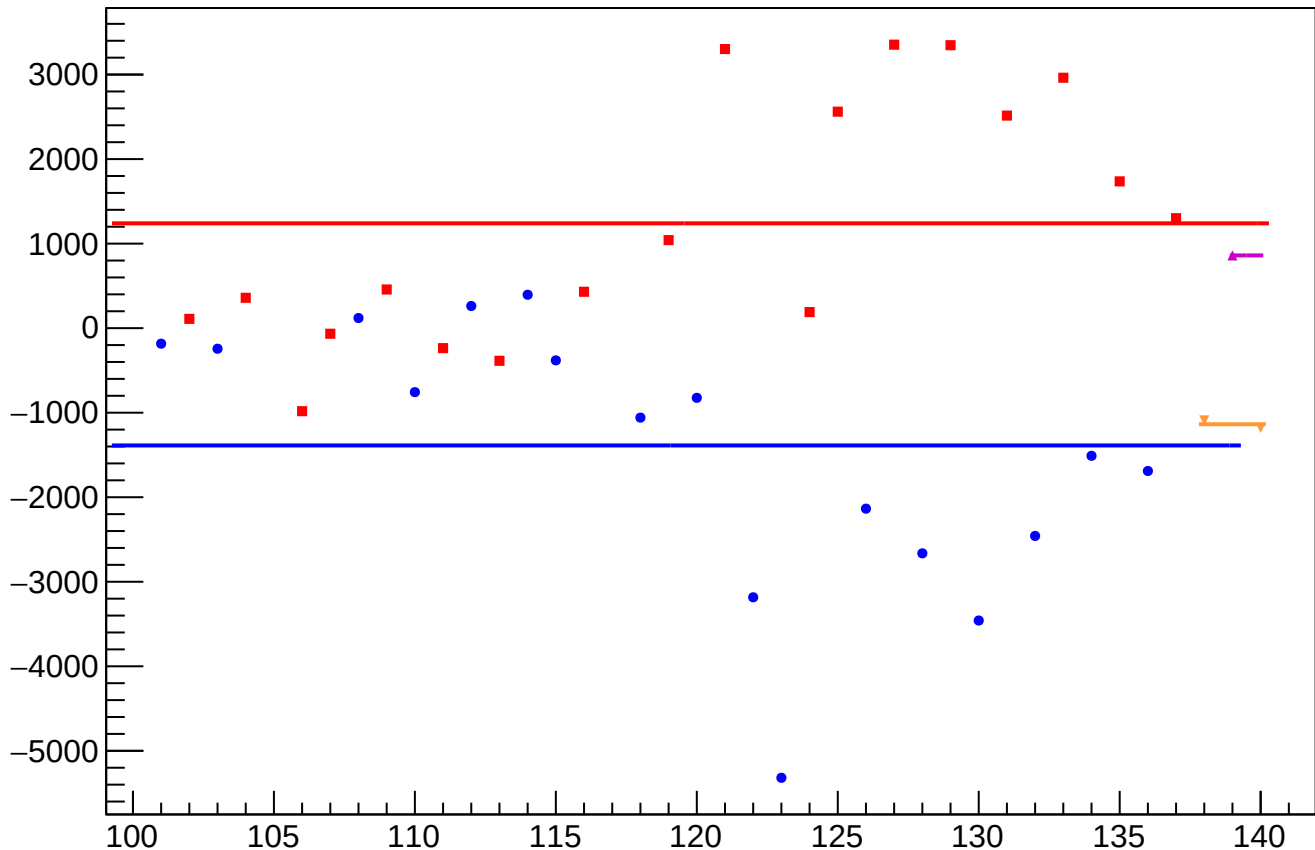
All: 90.552+/-0.000  $\chi^2/\text{NDF}$ : 3706880224346

dit\_sam4\_coil7\_Ndata\_mean vs Slug, Sign Corrected



|                             |                                                                   |                        |                                        |
|-----------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 987.388+/-0.000   | $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16 | Left: 308.813+/-0.000  | $\chi^2/\text{NDF}$ : 2244050301176272 |
| Left Out: 987.975+/-0.000   | $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1   | Right: -12.404+/-0.000 | $\chi^2/\text{NDF}$ : 146772402174972  |
| Right Out: -982.831+/-0.000 | $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17 | In: 776.252+/-0.000    | $\chi^2/\text{NDF}$ : 3485775224823146 |
| Left In: -1032.741+/-0.000  | $\chi^2/\text{NDF}$ : 4187601.9/0                                 | Out: -622.455+/-0.000  | $\chi^2/\text{NDF}$ : 560743548470567  |
|                             |                                                                   | All: 34.513+/-0.000    | $\chi^2/\text{NDF}$ : 1713363522257    |

# dit\_sam5\_coil7\_mean vs Slug, Sign Corrected



Right In: -1387.447+/-0.000

Left Out: -1136.457+/-0.000

Right Out: 1240.179+/-0.000

Left In: 860.420+/-0.000

$\chi^2/\text{NDF}$ : 1052649963447979198116034562243591929856.0/16

$\chi^2/\text{NDF}$ : 313237552833471301330049283913678848.0/1

$\chi^2/\text{NDF}$ : 1416369744921748520391717301088168181760.0/17

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

Left: -465.308+/-0.000  $\chi^2/\text{NDF}$ : 214745668557908

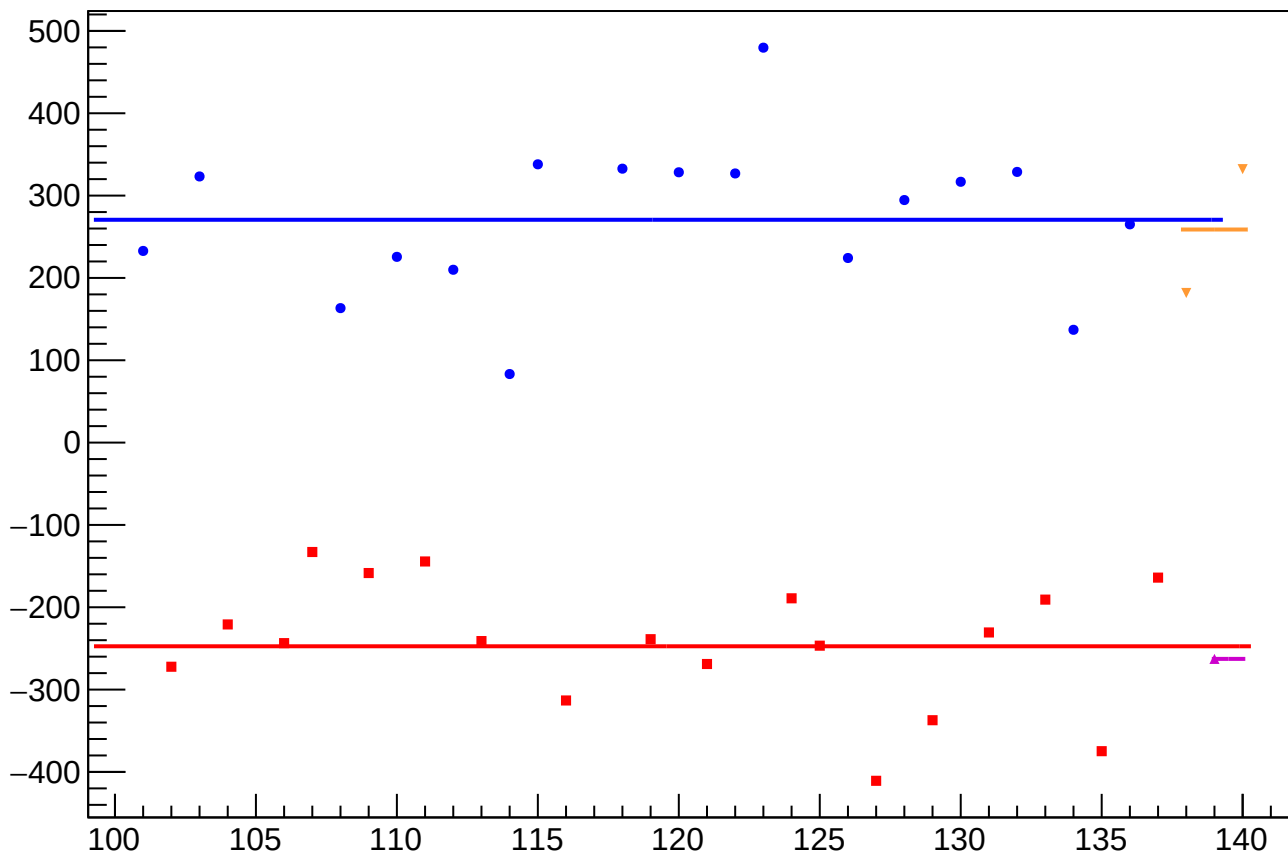
Right: -54.053+/-0.000  $\chi^2/\text{NDF}$ : 490056143046603

In: -1152.509+/-0.000  $\chi^2/\text{NDF}$ : 141915834168900

Out: 805.594+/-0.000  $\chi^2/\text{NDF}$ : 2155170958017081

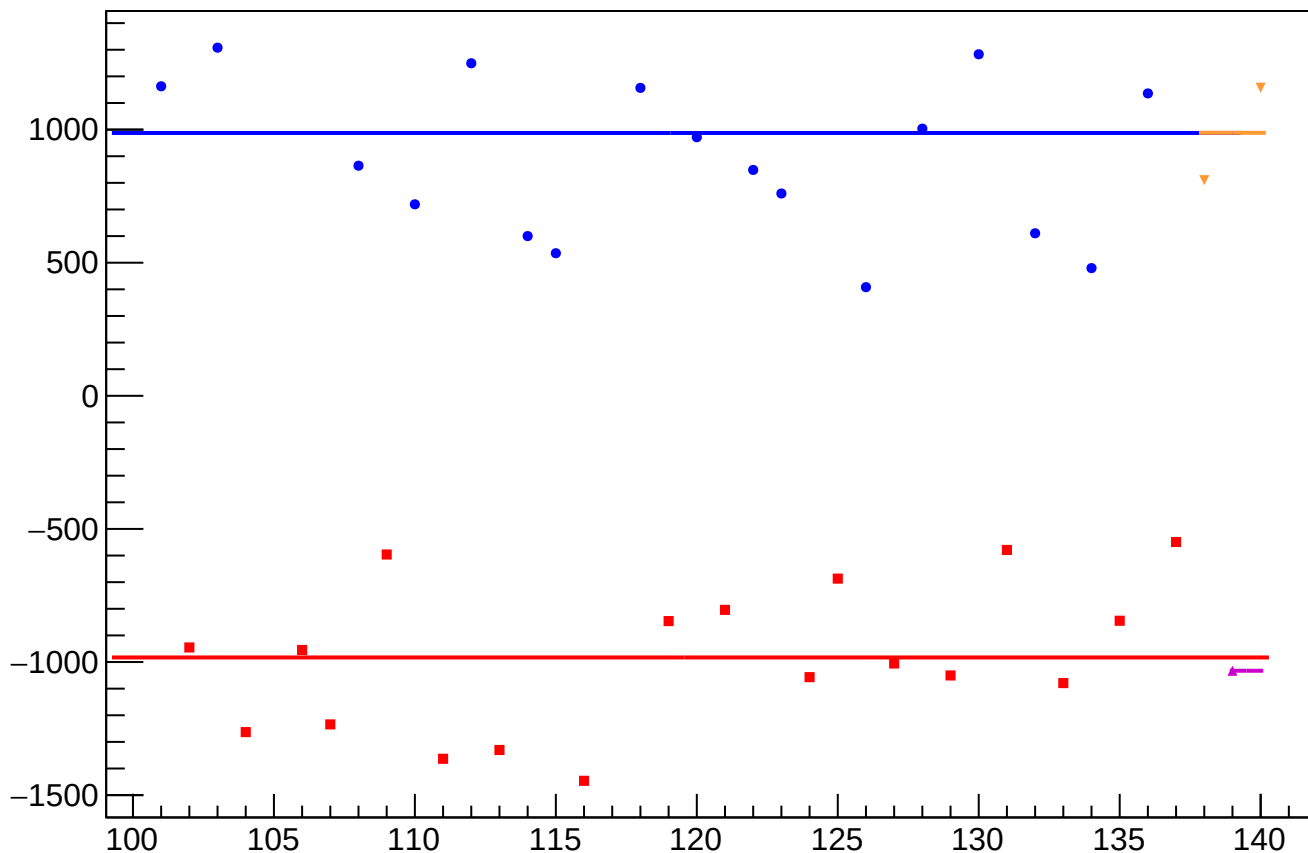
All: -114.121+/-0.000  $\chi^2/\text{NDF}$ : 51501140947

# dit\_sam5\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 270.634 +/- 0.000  $\chi^2/\text{NDF}$ : 2782961301444799640631413817001115648.0/16  
 Left Out: 258.805 +/- 0.000  $\chi^2/\text{NDF}$ : 904176962662109106621633787032764416.0/1  
 Right Out: -247.395 +/- 0.000  $\chi^2/\text{NDF}$ : 4145415912975495896207578940101885952.0/17  
 Left In: -262.706 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 18.825 +/- 0.000  $\chi^2/\text{NDF}$ : 1181462969135

dit\_sam5\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

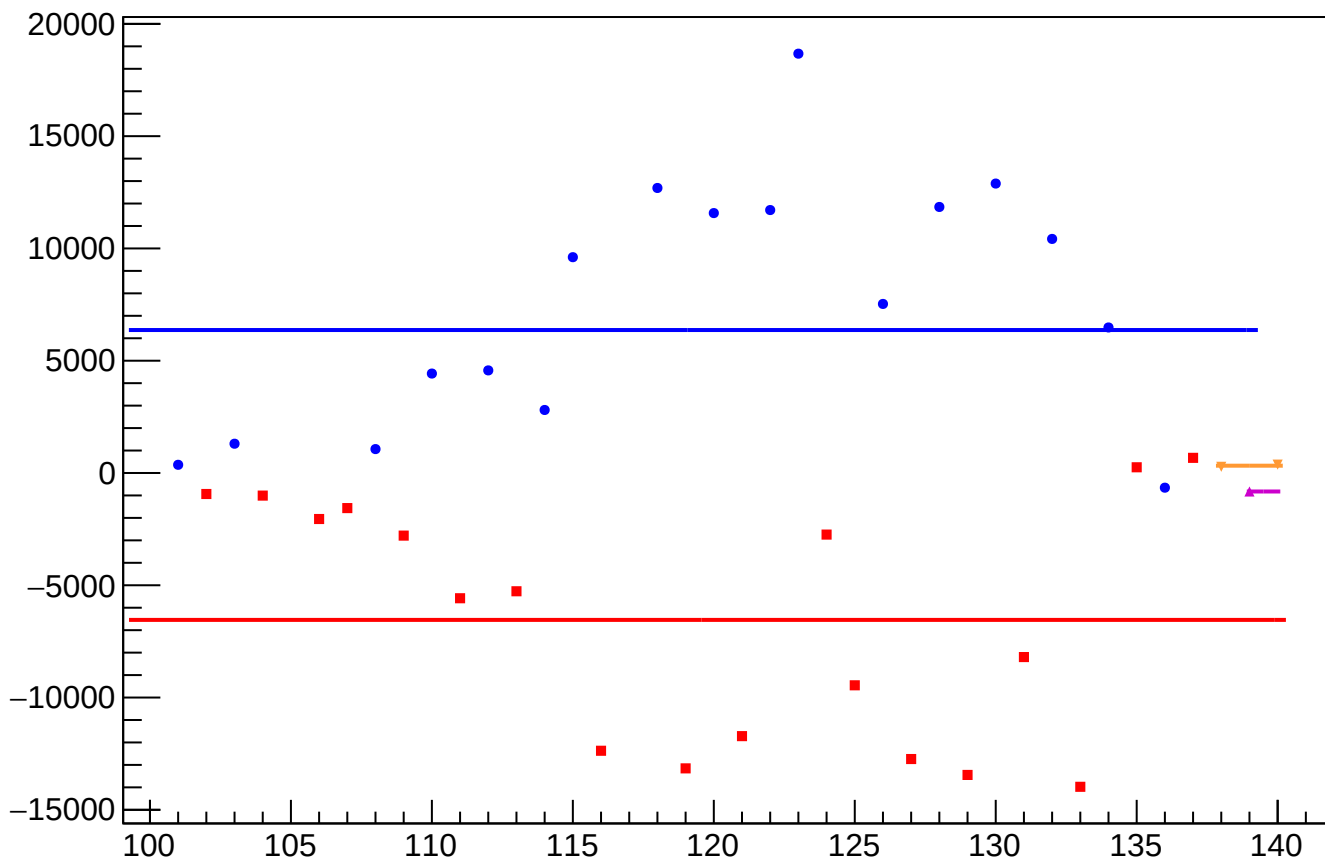
In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

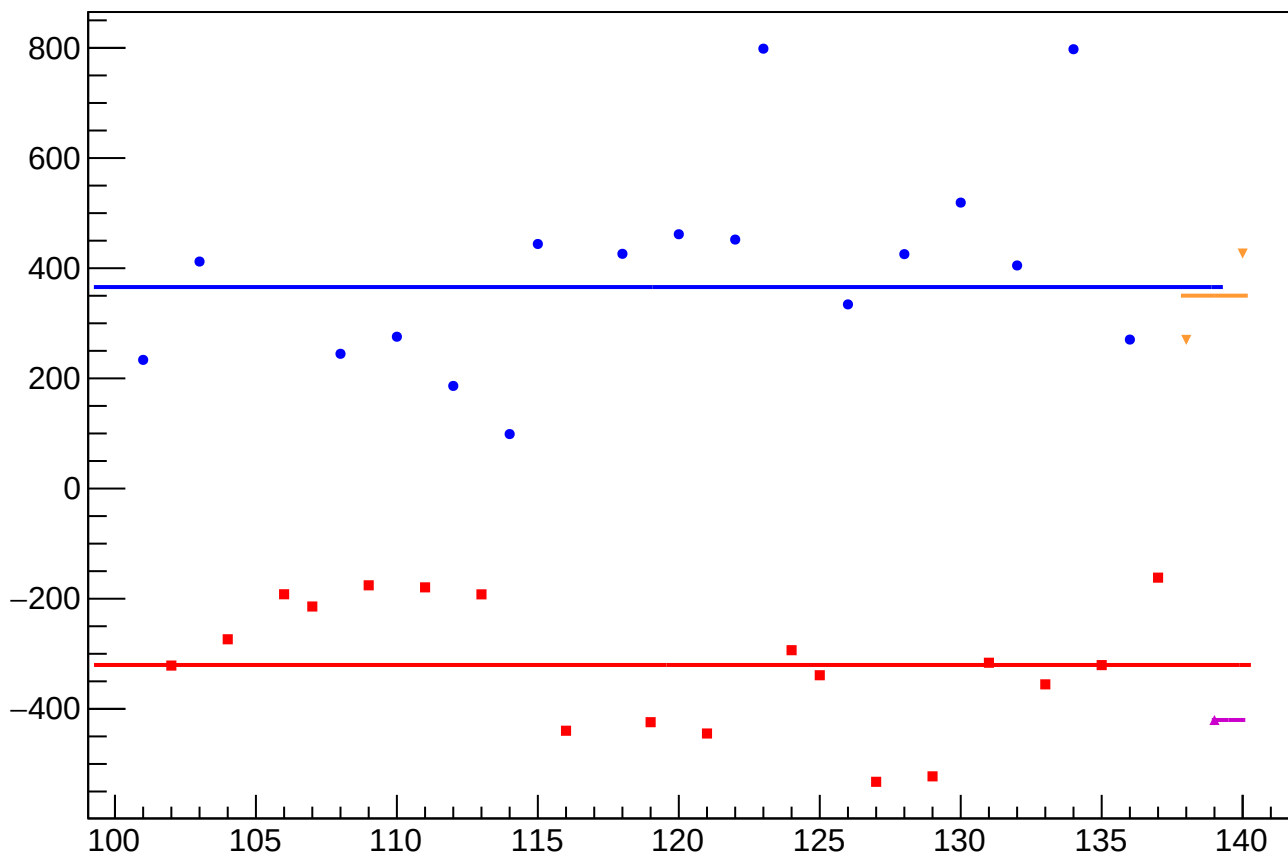


dit\_sam6\_coil7\_mean vs Slug, Sign Corrected



Left:  $-60.975 \pm 0.000$   $\chi^2/\text{NDF}: 7140559579277724$   
 Right In:  $6366.506 \pm 0.000$   $\chi^2/\text{NDF}: 19013791293174950781662205946475975802880.0/16$   
 Right:  $-184.187 \pm 0.000$   $\chi^2/\text{NDF}: 97470337985705$   
 Left Out:  $325.300 \pm 0.000$   $\chi^2/\text{NDF}: 375128294555469041867650828450398208.0/1$   
 In:  $5614.983 \pm 0.000$   $\chi^2/\text{NDF}: 2276403990711239$   
 Right Out:  $-6542.482 \pm 0.000$   $\chi^2/\text{NDF}: 19769956838076333850932350219813545574400.0/17$   
 Out:  $-5286.659 \pm 0.000$   $\chi^2/\text{NDF}: 25937004982318$   
 Left In:  $-823.987 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $-166.191 \pm 0.000$   $\chi^2/\text{NDF}: 97544867867$

dit\_sam6\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 365.806 $\pm$ 0.000  $\chi^2$ /NDF: 12360453443474503357525500563004850176.0/16

Left Out: 350.197 $\pm$ 0.000  $\chi^2$ /NDF: 982142893430467533144361591036182528.0/1

Right Out: -320.284 $\pm$ 0.000  $\chi^2$ /NDF: 9463966273350706118112483440542613504.0/17

Left In: -420.155 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 91.282 $\pm$ 0.000  $\chi^2$ /NDF: 32895047410213848

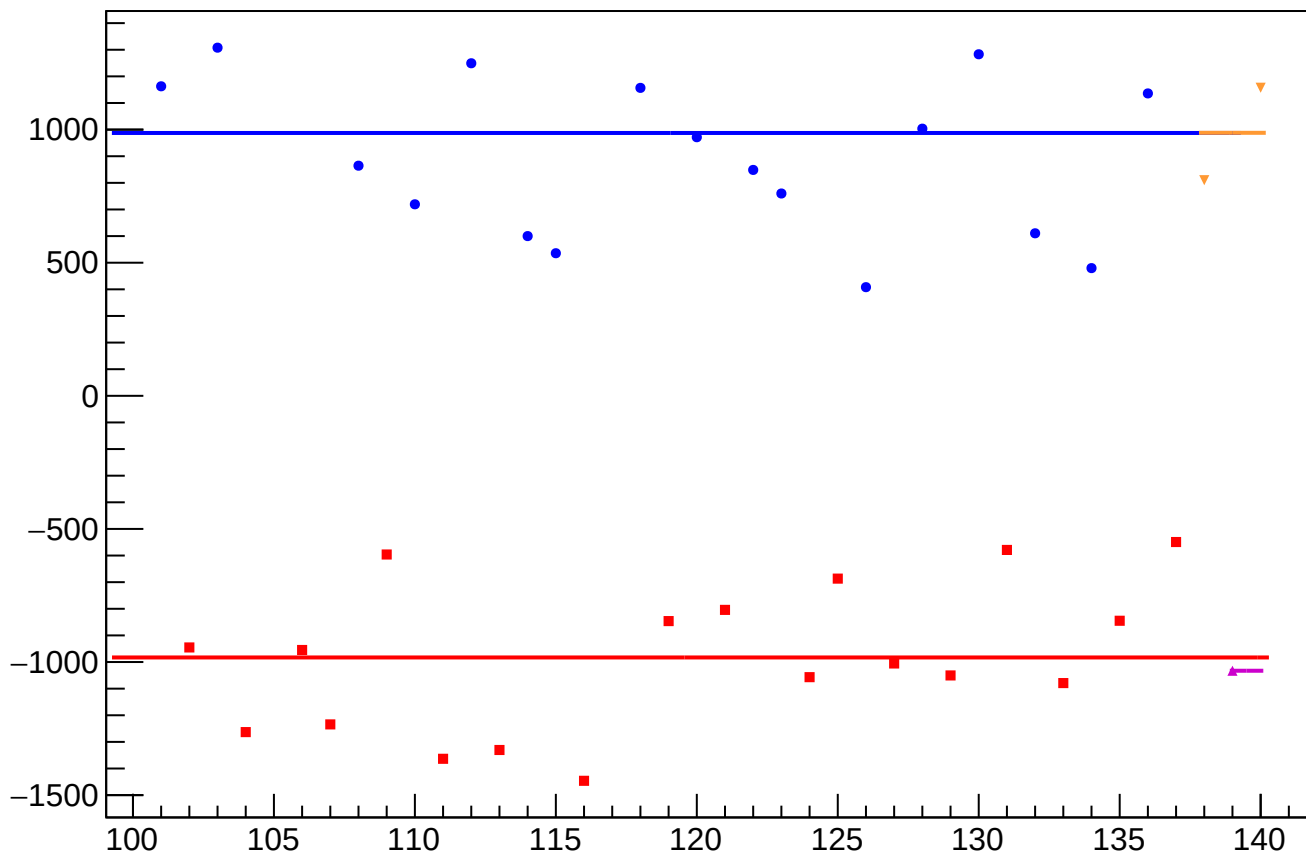
Right: 17.648 $\pm$ 0.000  $\chi^2$ /NDF: 1875984728574231

In: 283.660 $\pm$ 0.000  $\chi^2$ /NDF: 57167331289192983

Out: -197.682 $\pm$ 0.000  $\chi^2$ /NDF: 692208641246655

All: 28.403 $\pm$ 0.000  $\chi^2$ /NDF: 2216093520482

dit\_sam6\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000  $\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000  $\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000  $\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000  $\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

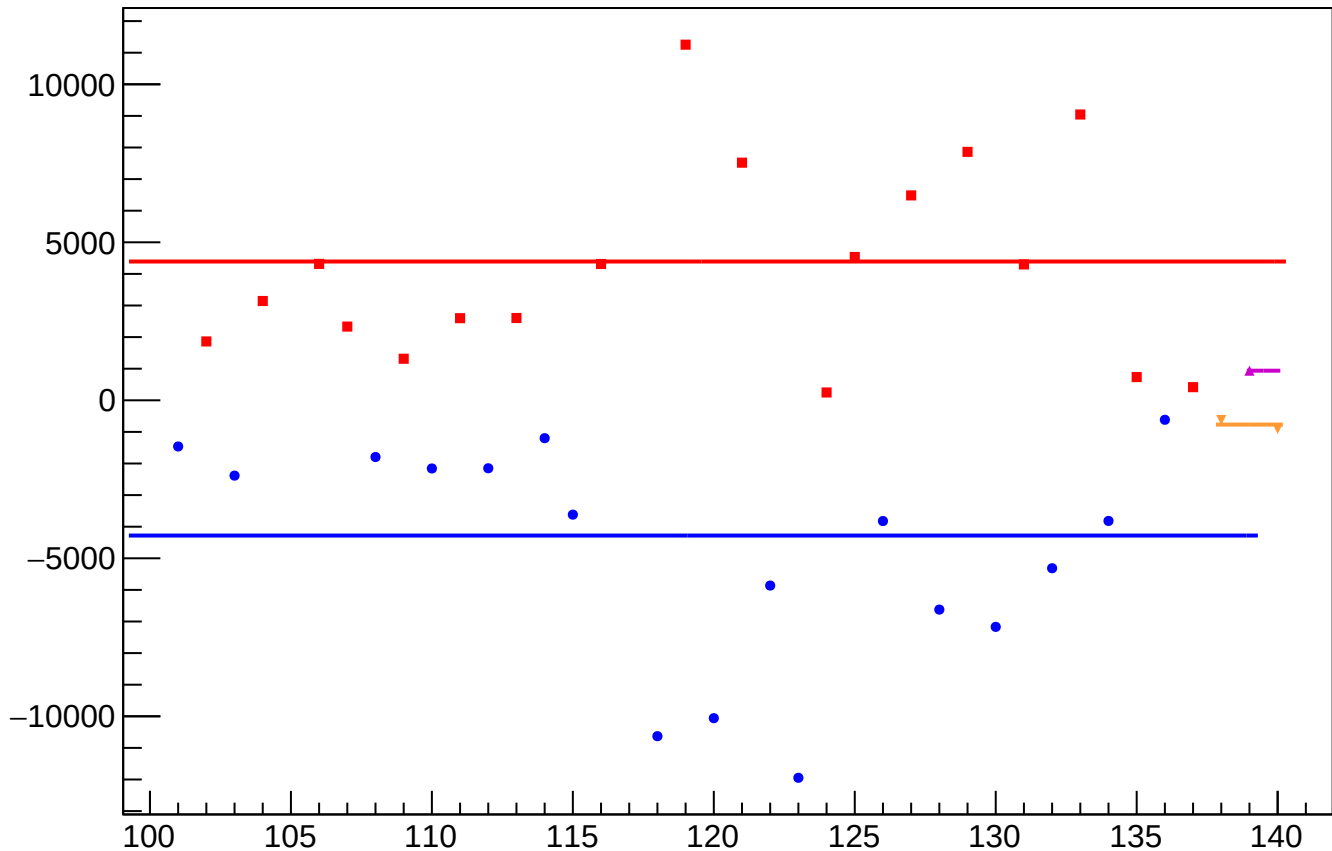
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

dit\_sam7\_coil7\_mean vs Slug, Sign Corrected



Right In: -4279.824+/-0.000

$\chi^2/\text{NDF}$ : 6998436131465727751461675089449726246912.0/16

Left Out: -768.183+/-0.000

$\chi^2/\text{NDF}$ : 3200011821495564456208853540546805760.0/1

Right Out: 4391.806+/-0.000

$\chi^2/\text{NDF}$ : 7013803733920665719163942153165454966784.0/17

Left In: 936.722+/-0.000

$\chi^2/\text{NDF}$ : 1046900.5/0

In: -3734.611+/-0.000

$\chi^2/\text{NDF}$ : 897226274719763

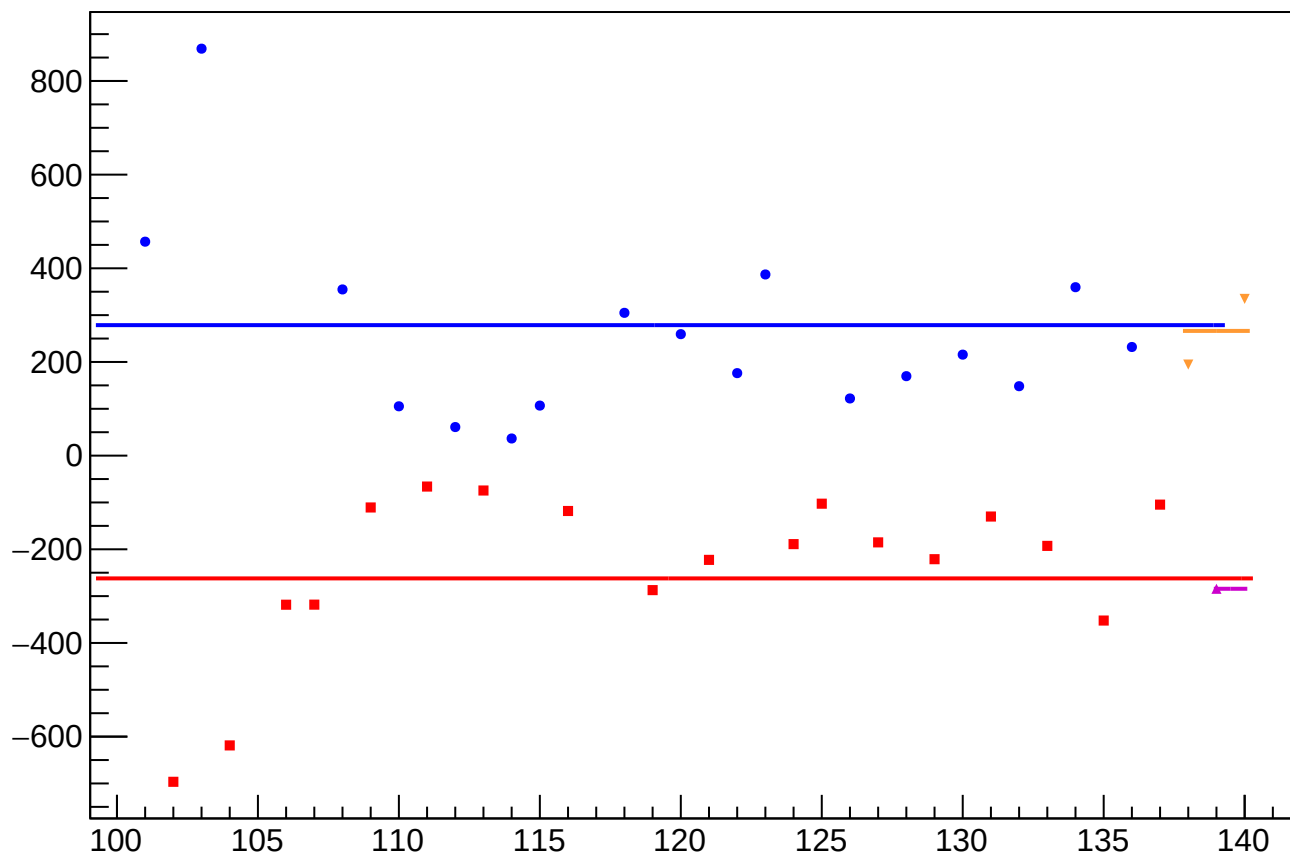
Out: 3448.266+/-0.000

$\chi^2/\text{NDF}$ : 104980964156341

All: 74.490+/-0.000

$\chi^2/\text{NDF}$ : 4067459521338

dit\_sam7\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 278.633+/-0.000  $\chi^2/\text{NDF}$ : 30524296265206738304048515708883042304.0/16

Left Out: 266.310+/-0.000  $\chi^2/\text{NDF}$ : 785965698524543232872779521395261440.0/1

Right Out: -262.162+/-0.000  $\chi^2/\text{NDF}$ : 25748645086335087770789028222868652032.0/17

Left In: -284.301+/-0.000  $\chi^2/\text{NDF}$ : 261725.1/0

Left: 81.250+/-0.000  $\chi^2/\text{NDF}$ : 1708932045924443

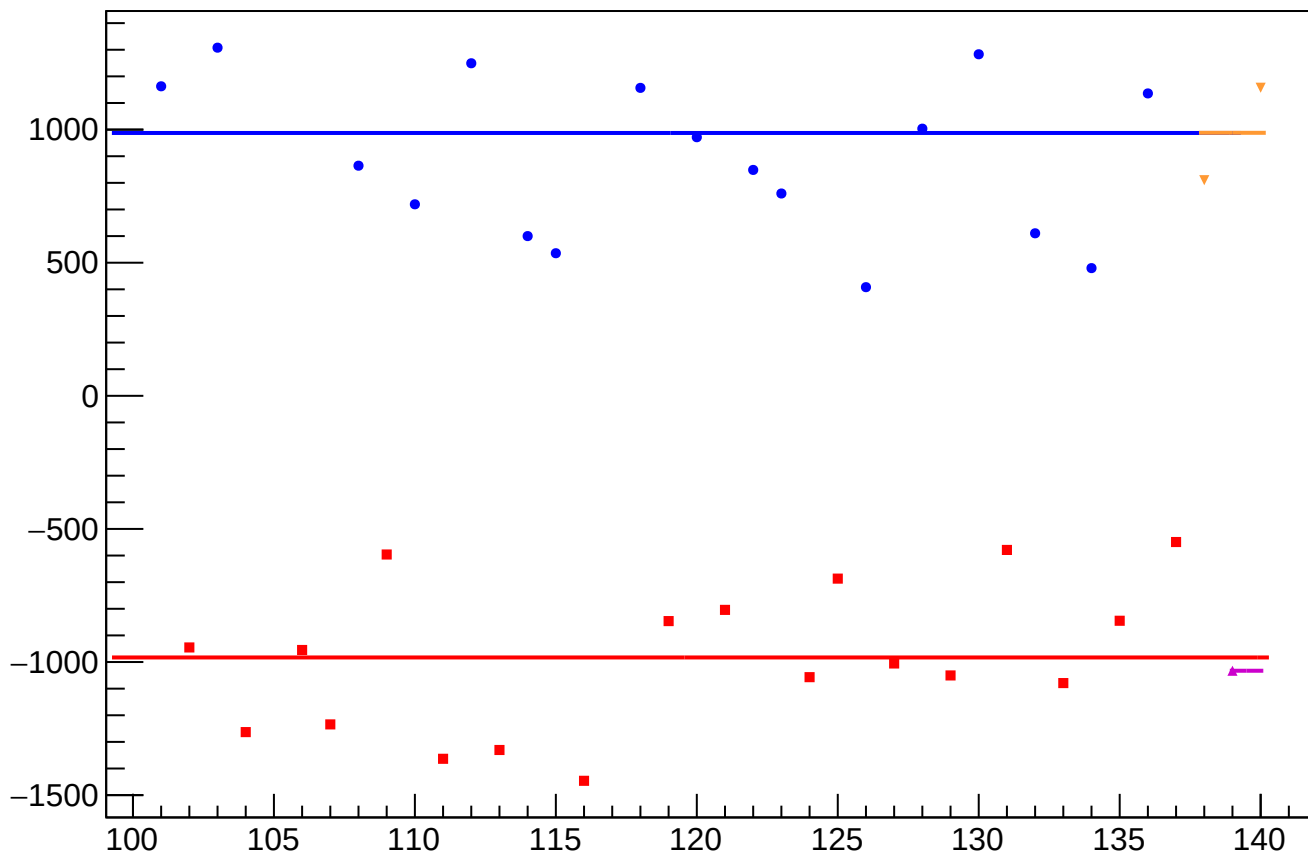
Right: 4.206+/-0.000  $\chi^2/\text{NDF}$ : 15926891041160523

In: 219.798+/-0.000  $\chi^2/\text{NDF}$ : 53509991540526480

Out: -165.527+/-0.000  $\chi^2/\text{NDF}$ : 630487988633614

All: 15.459+/-0.000  $\chi^2/\text{NDF}$ : 1775798197612

dit\_sam7\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000

$\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000

$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000

$\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

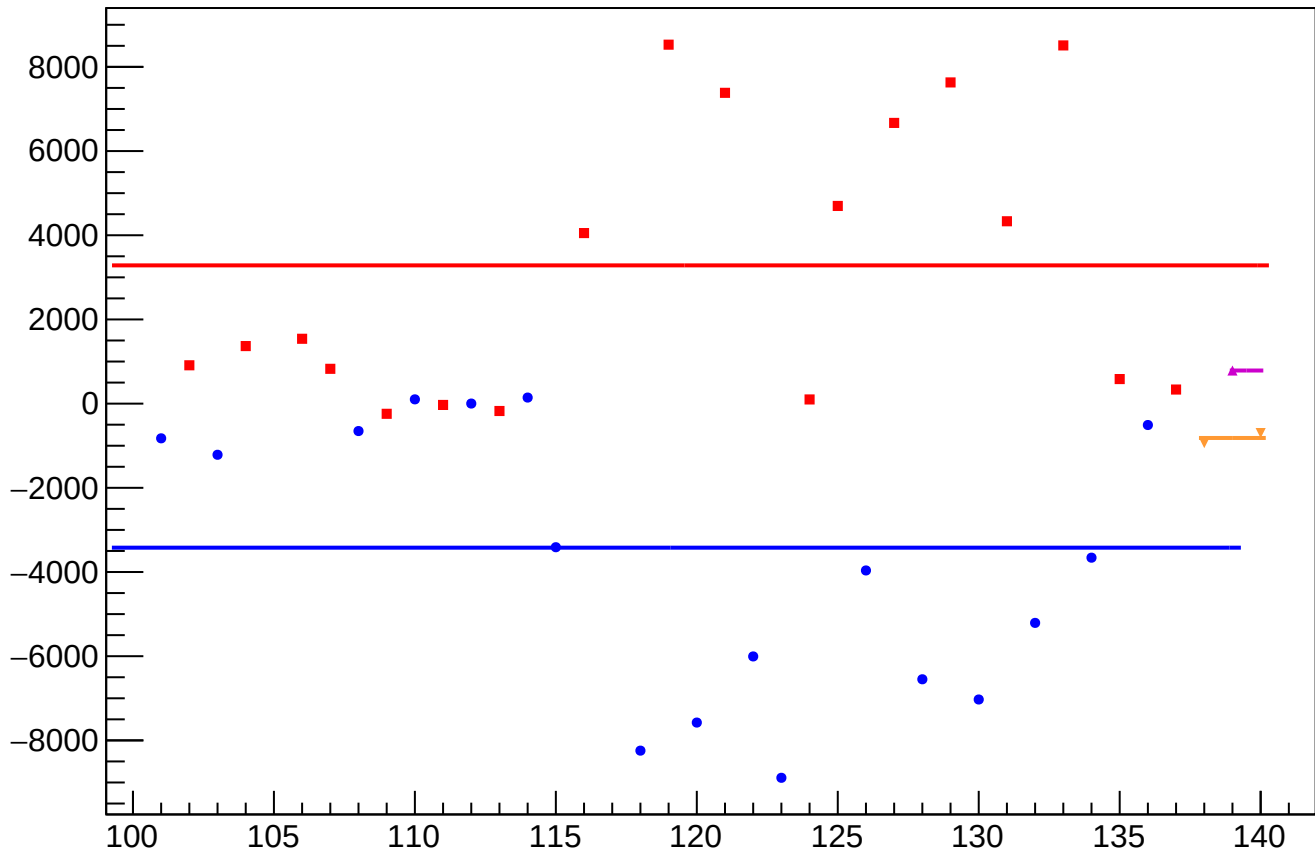
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

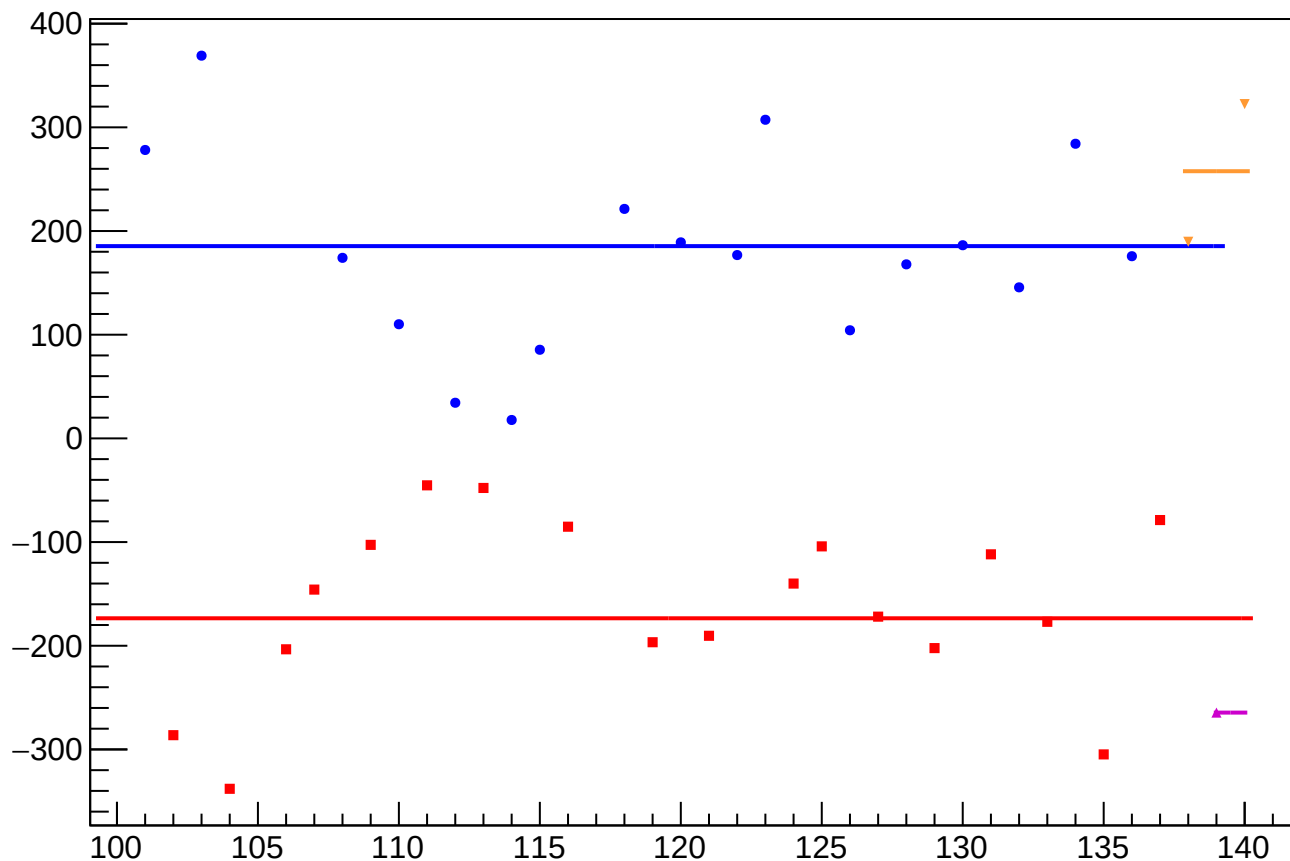
All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

# dit\_sam8\_coil7\_mean vs Slug, Sign Corrected



Right In:  $-3421.719 \pm 0.000$   $\chi^2/\text{NDF}: 6462112736004972779572658363986020925440.0/16$   
 Left Out:  $-815.764 \pm 0.000$   $\chi^2/\text{NDF}: 2283271438098368680228643473167745024.0/1$   
 Right Out:  $3284.376 \pm 0.000$   $\chi^2/\text{NDF}: 7820854185595313728450757047863572692992.0/17$   
 Left In:  $786.745 \pm 0.000$   $\chi^2/\text{NDF}: 1046900.5/0$   
 All:  $-56.449 \pm 0.000$   $\chi^2/\text{NDF}: 302748630517$

dit\_sam8\_coil7\_err\_mean vs Slug, Sign Corrected



Right In: 185.440+/-0.000

$\chi^2/\text{NDF}$ : 4992999881975997017558054599194050560.0/16

Left Out: 257.692+/-0.000

$\chi^2/\text{NDF}$ : 704790996878980801347003751059161088.0/1

Right Out: -173.513+/-0.000

$\chi^2/\text{NDF}$ : 5476704825855084602521292305195859968.0/17

Left In: -264.471+/-0.000

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

Left: 82.193+/-0.000  $\chi^2/\text{NDF}$ : 15367009589520711

Right: 3.289+/-0.000  $\chi^2/\text{NDF}$ : 55846136709123750

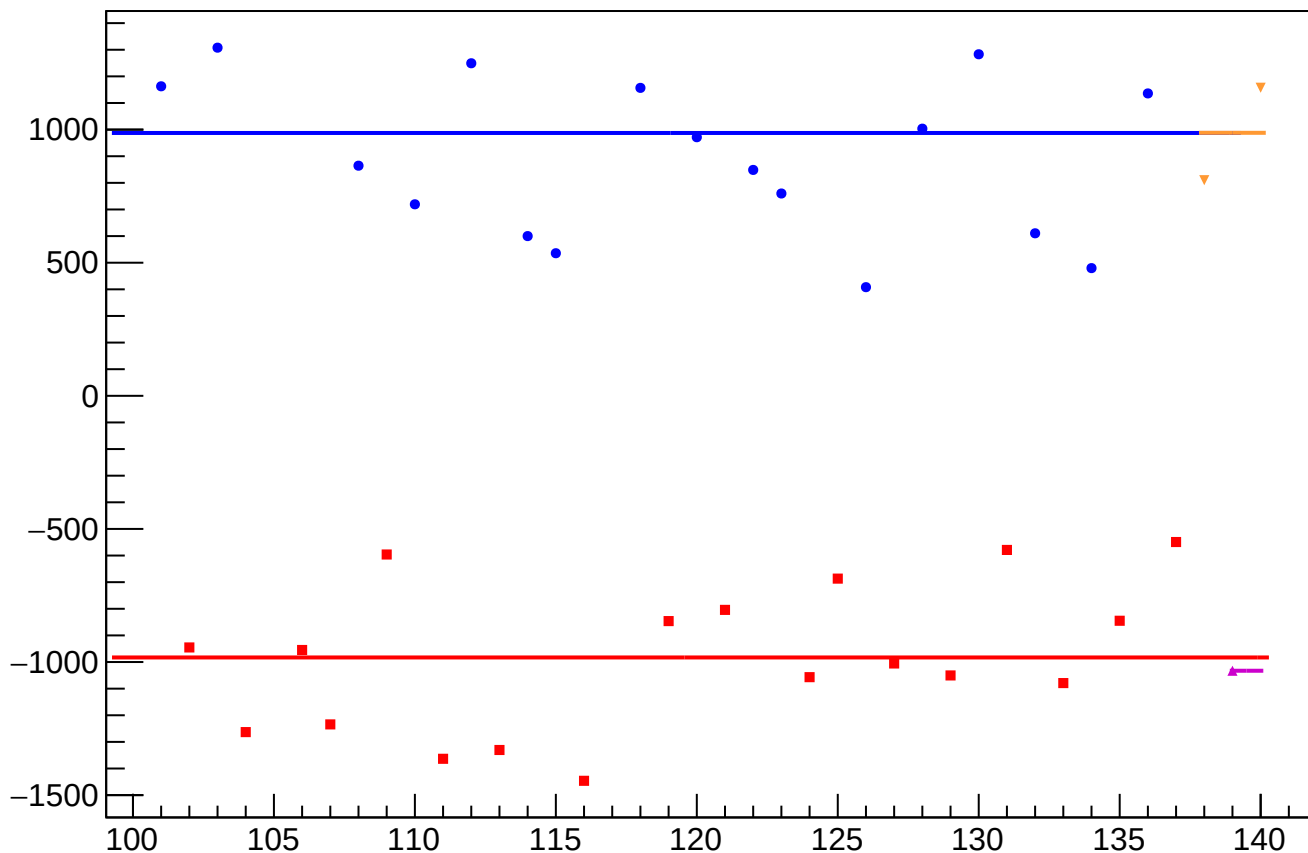
In: 138.417+/-0.000  $\chi^2/\text{NDF}$ : 19675386533379078

Out: -94.664+/-0.000  $\chi^2/\text{NDF}$ : 3049149017813066

All: 14.814+/-0.000  $\chi^2/\text{NDF}$ : 7249443045062



dit\_sam8\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 987.388+/-0.000

$\chi^2/\text{NDF}$ : 52571386835815299758771040245189181440.0/16

Left Out: 987.975+/-0.000

$\chi^2/\text{NDF}$ : 4822184975672300177523512052558069760.0/1

Right Out: -982.831+/-0.000

$\chi^2/\text{NDF}$ : 48106250951114292454819733992816771072.0/17

Left In: -1032.741+/-0.000

$\chi^2/\text{NDF}$ : 4187601.9/0

Left: 308.813+/-0.000  $\chi^2/\text{NDF}$ : 2244050301176272

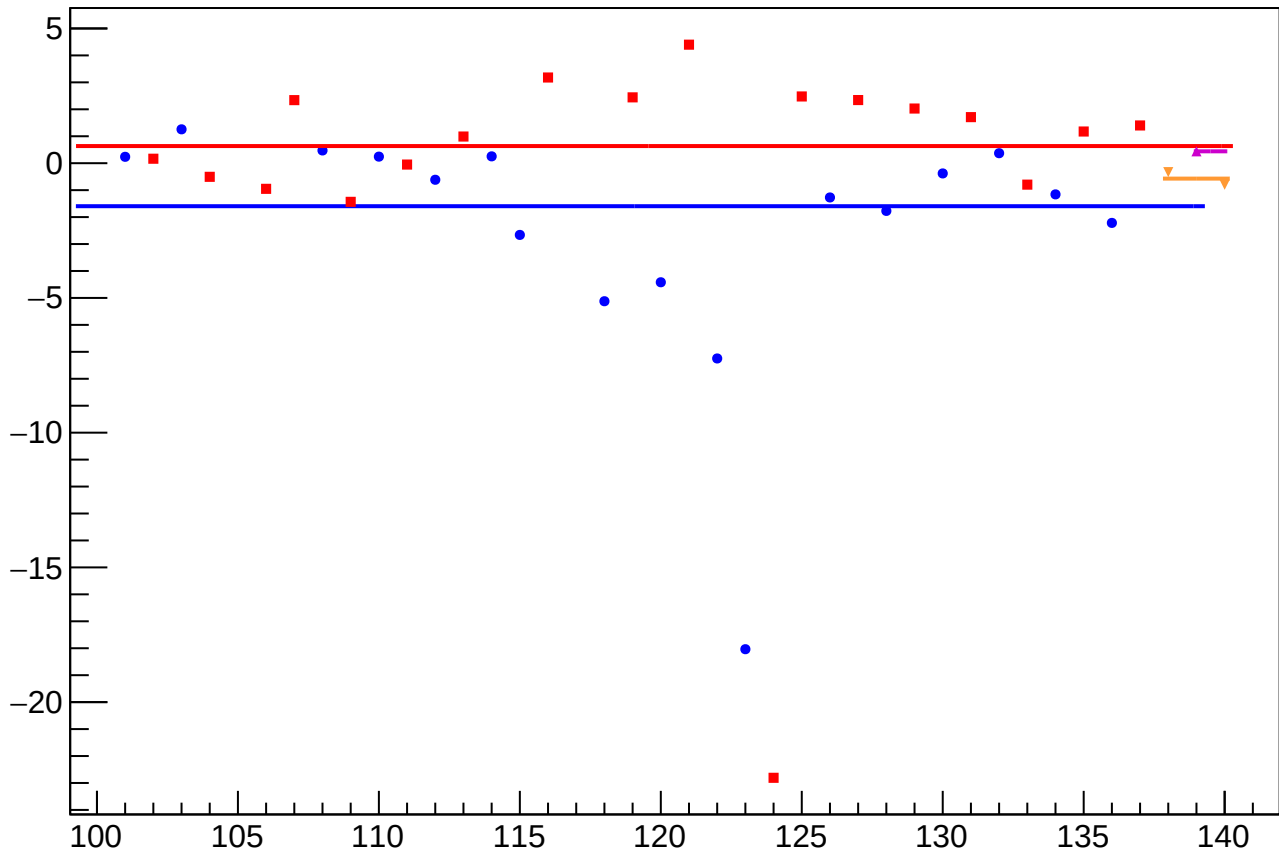
Right: -12.404+/-0.000  $\chi^2/\text{NDF}$ : 146772402174972

In: 776.252+/-0.000  $\chi^2/\text{NDF}$ : 3485775224823146

Out: -622.455+/-0.000  $\chi^2/\text{NDF}$ : 560743548470567

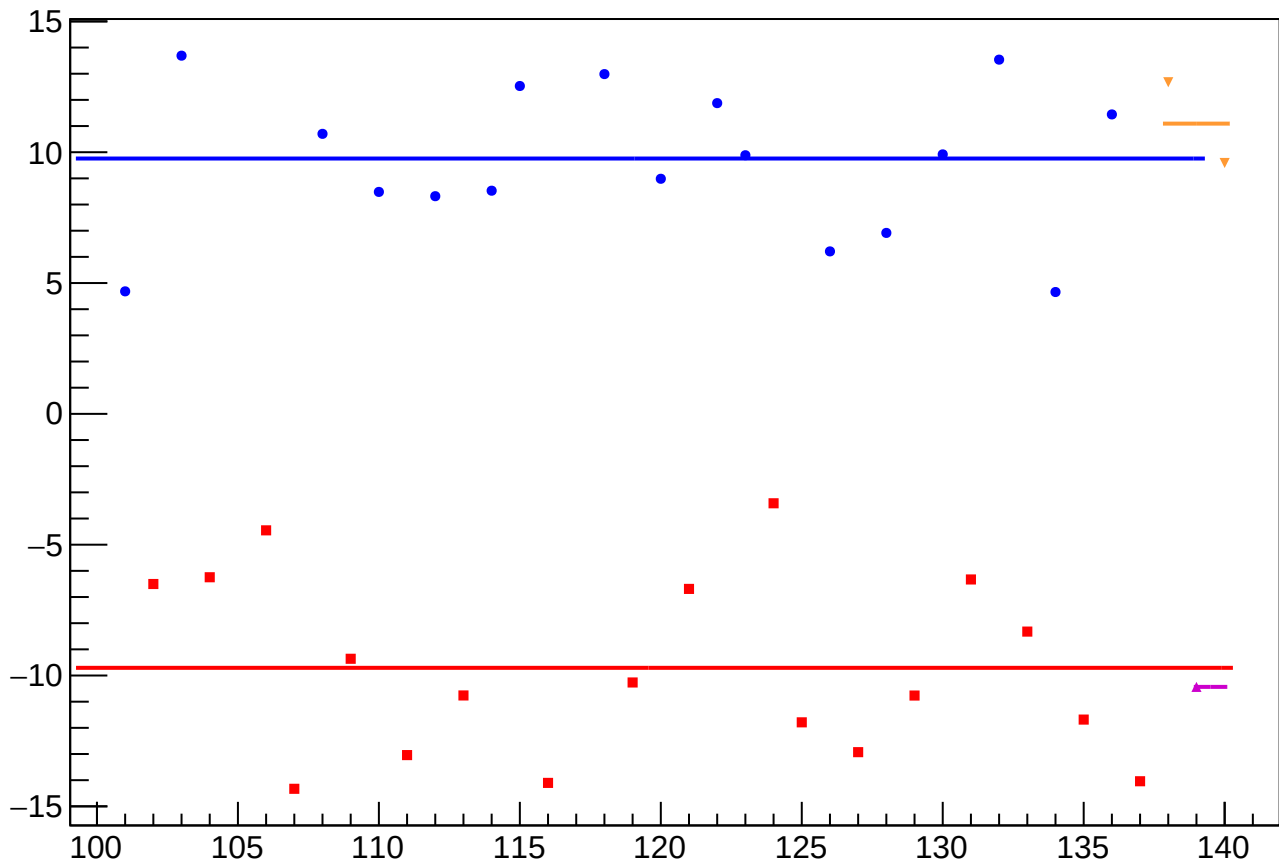
All: 34.513+/-0.000  $\chi^2/\text{NDF}$ : 1713363522257

# dit\_4aX\_coil4\_mean vs Slug, Sign Corrected



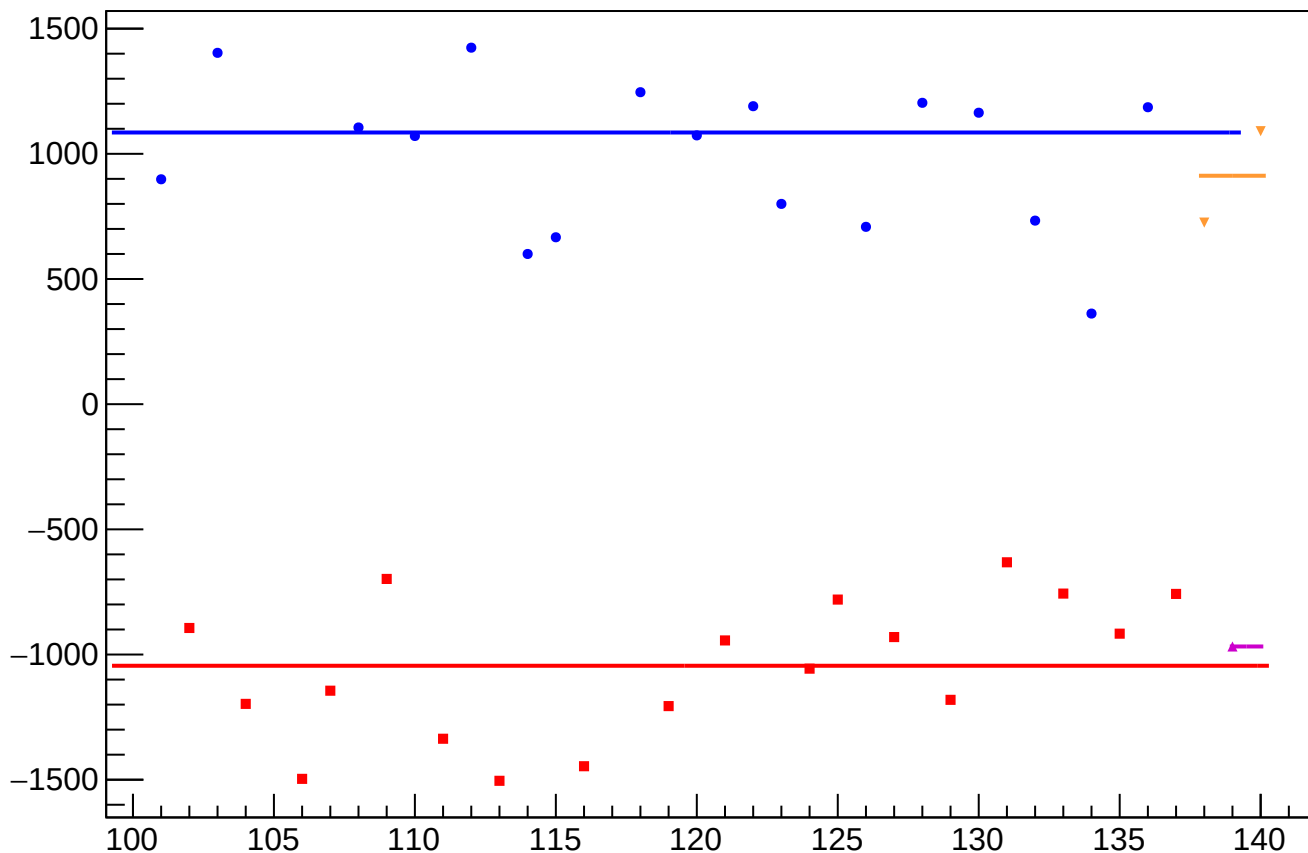
Right In:  $-1.596 \pm 0.000$   $\chi^2/\text{NDF}: 4654807928359892398673617982849024.0/16$   
 Left Out:  $-0.572 \pm 0.000$   $\chi^2/\text{NDF}: 8781378371449354510192374448128.0/1$   
 Right Out:  $0.636 \pm 0.000$   $\chi^2/\text{NDF}: 9571048295343482409580772007608320.0/17$   
 Left In:  $0.441 \pm 0.000$   $\chi^2/\text{NDF}: 0.2/0$   
 All:  $-0.429 \pm 0.000$   $\chi^2/\text{NDF}: 1605490421090$

# dit\_4aX\_coil4\_err\_mean vs Slug, Sign Corrected



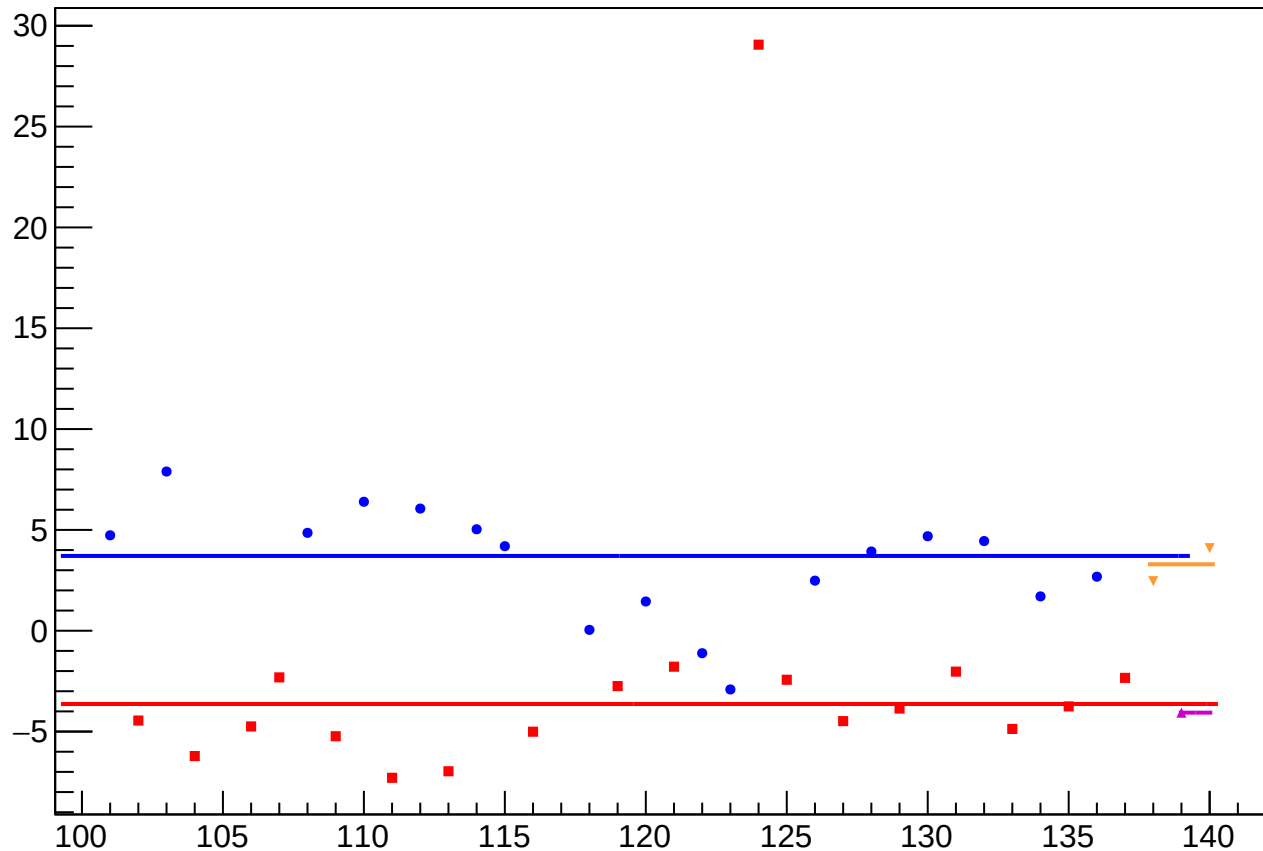
Right In: 9.759+/-0.000  $\chi^2/\text{NDF}$ : 5805218601264248923404355625811968.0/16  
 Left Out: 11.093+/-0.000  $\chi^2/\text{NDF}$ : 380711505573210335688714432282624.0/1  
 Right Out: -9.706+/-0.000  $\chi^2/\text{NDF}$ : 6508390621050403360774220706480128.0/17  
 Left In: -10.435+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 7.648+/-0.000  $\chi^2/\text{NDF}$ : 3538208210305091719  
 Out: -5.903+/-0.000  $\chi^2/\text{NDF}$ : 63448064065477341  
 All: 0.462+/-0.000  $\chi^2/\text{NDF}$ : 1742998185239

dit\_4aX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



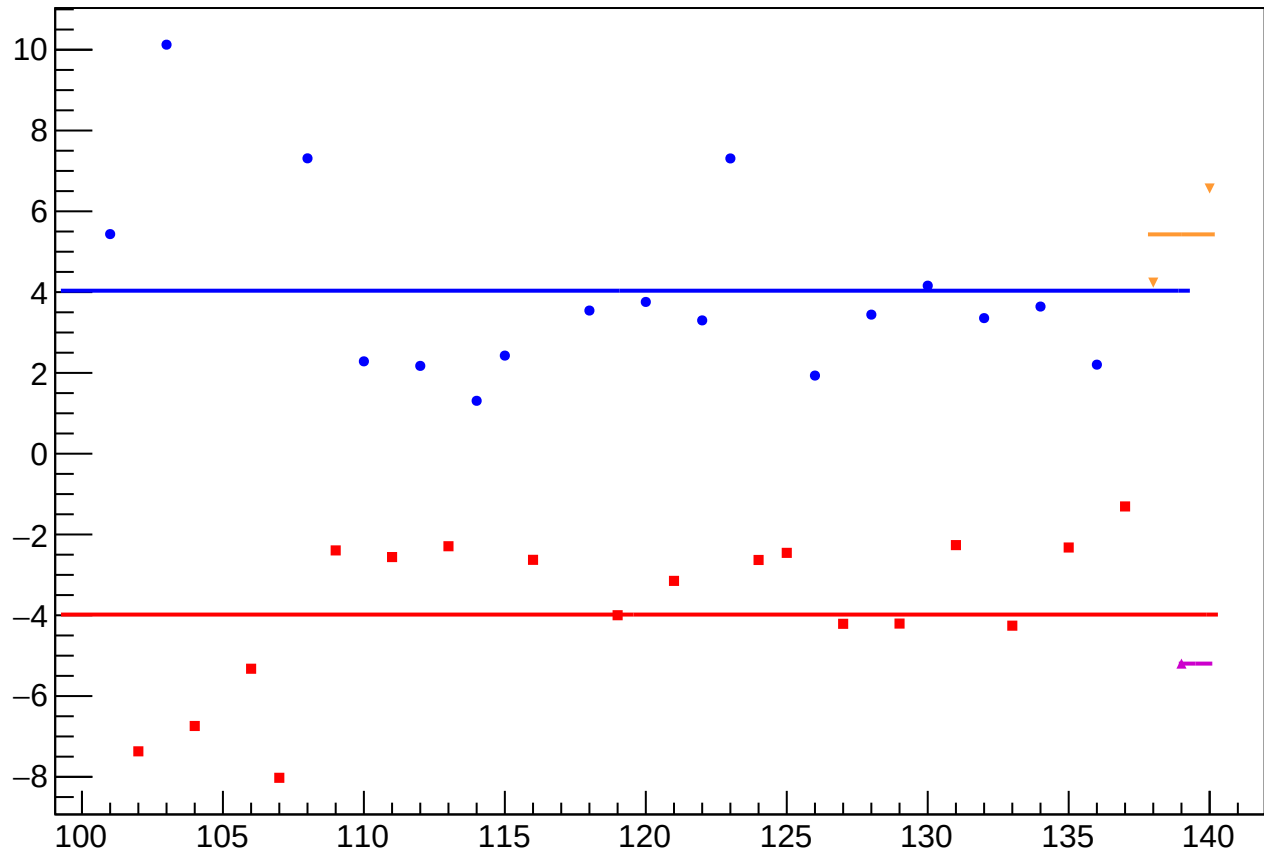
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left In: 280.477+/-0.000  $\chi^2/\text{NDF}$ : 1954444039122650  
 Right: 4.294+/-0.000  $\chi^2/\text{NDF}$ : 16932734928141311  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 In: 870.614+/-0.000  $\chi^2/\text{NDF}$ : 35032103777114884  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Out: -686.950+/-0.000  $\chi^2/\text{NDF}$ : 557043237905784  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

# dit\_4eX\_coil4\_mean vs Slug, Sign Corrected



Right In: 3.709+/-0.000  $\chi^2/\text{NDF}$ : 4018102777172229540031969661812736.0/16  
 Left Out: 3.295+/-0.000  $\chi^2/\text{NDF}$ : 107170605057989245327378548260864.0/1  
 Right Out: -3.634+/-0.000  $\chi^2/\text{NDF}$ : 17179706396424887783373227094441984.0/17  
 Left In: -4.062+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.106+/-0.000  $\chi^2/\text{NDF}$ : 43349518810729

dit\_4eX\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 4.035+/-0.000

$\chi^2/\text{NDF}$ : 3710399284586297338090254185267200.0/16

Left Out: 5.429+/-0.000

$\chi^2/\text{NDF}$ : 217036639397059779737879790485504.0/1

Right Out: -3.983+/-0.000

$\chi^2/\text{NDF}$ : 2613925353133608323825730446163968.0/17

Left In: -5.196+/-0.000

$\chi^2/\text{NDF}$ : 63.9/0

Left: 1.858+/-0.000  $\chi^2/\text{NDF}$ : 628871658293433368.0/1

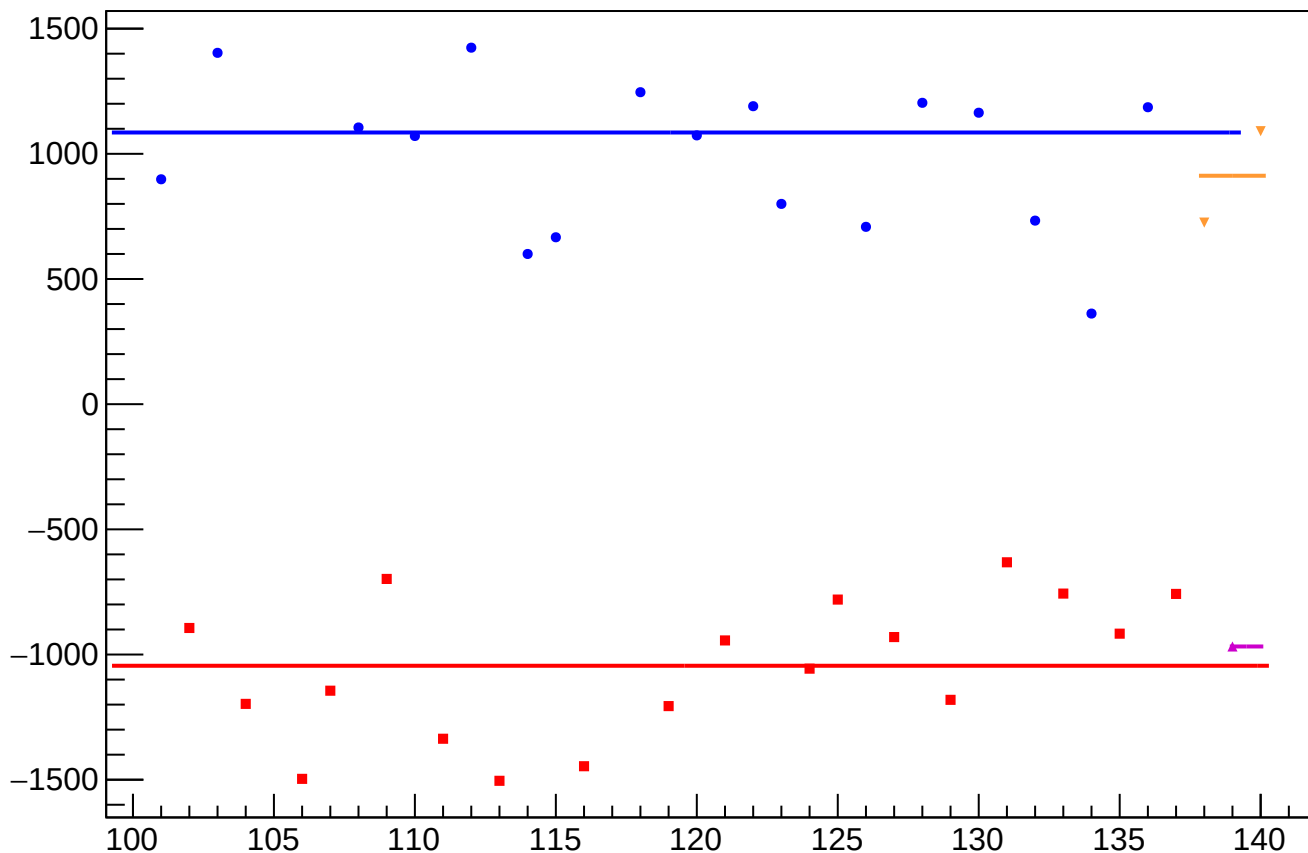
Right: -0.034+/-0.000  $\chi^2/\text{NDF}$ : 2896164909760269.0/1

In: 3.070+/-0.000  $\chi^2/\text{NDF}$ : 9891623850380863525.0/1

Out: -2.262+/-0.000  $\chi^2/\text{NDF}$ : 14412519833273962.0/1

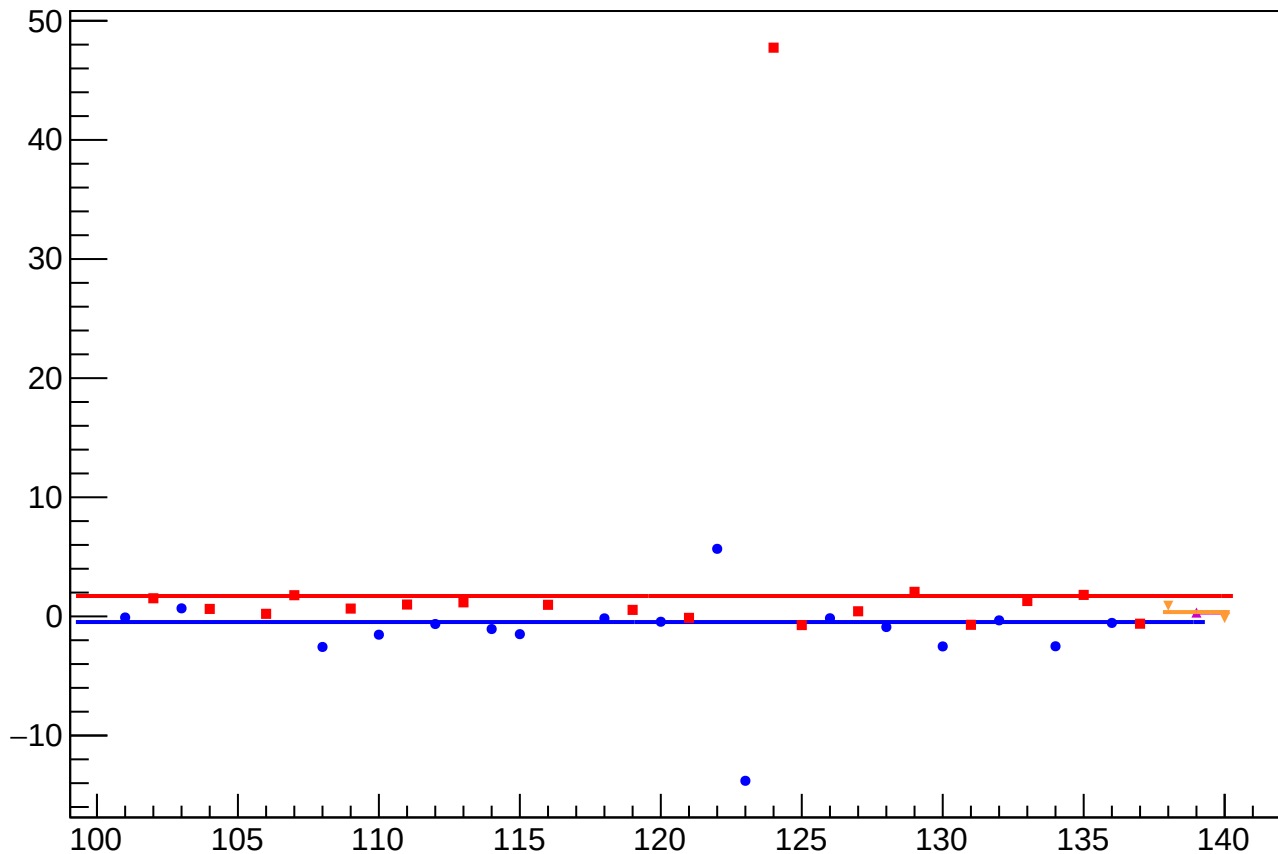
All: 0.243+/-0.000  $\chi^2/\text{NDF}$ : 35986710068717.0/1

dit\_4eX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1085.186 \pm 0.000$   $\chi^2/\text{NDF}: 44603059371113642027482174752630505472.0/16$   
 Left Out:  $912.425 \pm 0.000$   $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   
 Right Out:  $-1044.852 \pm 0.000$   $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$   
 Left In:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $44.633 \pm 0.000$   $\chi^2/\text{NDF}: 1904415707412$

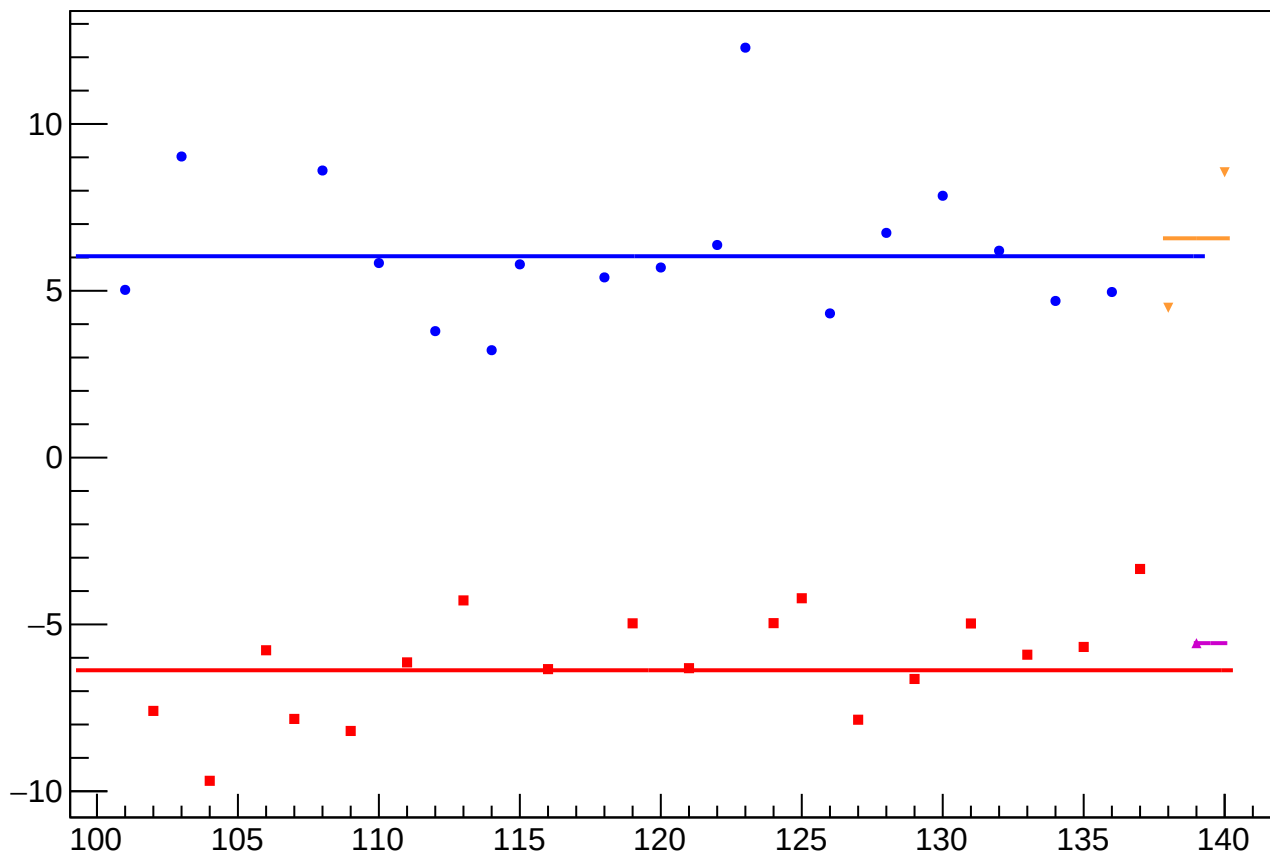
# dit\_11X12X\_coil4\_mean vs Slug, Sign Corrected



Left: 0.350+/-0.000  $\chi^2/\text{NDF}$ : 42978993045815956  
 Right In: -0.473+/-0.000  $\chi^2/\text{NDF}$ : 2898613024888316123890745518063616.0/16  
 Left Out: 0.364+/-0.000  $\chi^2/\text{NDF}$ : 42887484966301147679132135456768.0/1  
 Right Out: 1.712+/-0.000  $\chi^2/\text{NDF}$ : 30716645280339484063089556715470848.0/17  
 Left In: 0.323+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.390+/-0.000  $\chi^2/\text{NDF}$ : 294458250729916358  
 Out: 1.466+/-0.000  $\chi^2/\text{NDF}$ : 309970527016082416  
 All: 0.594+/-0.000  $\chi^2/\text{NDF}$ : 35356642840587

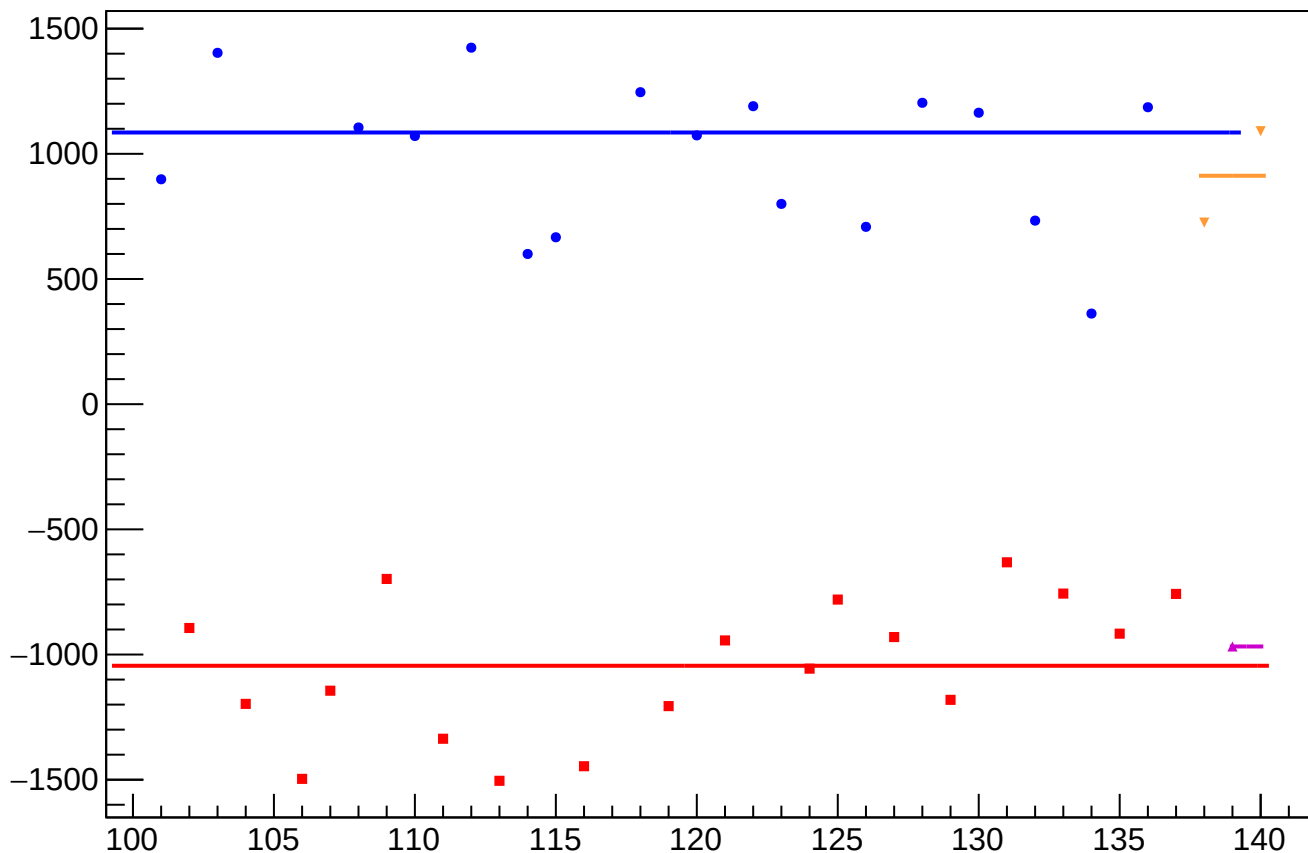


dit\_11X12X\_coil4\_err\_mean vs Slug, Sign Corrected



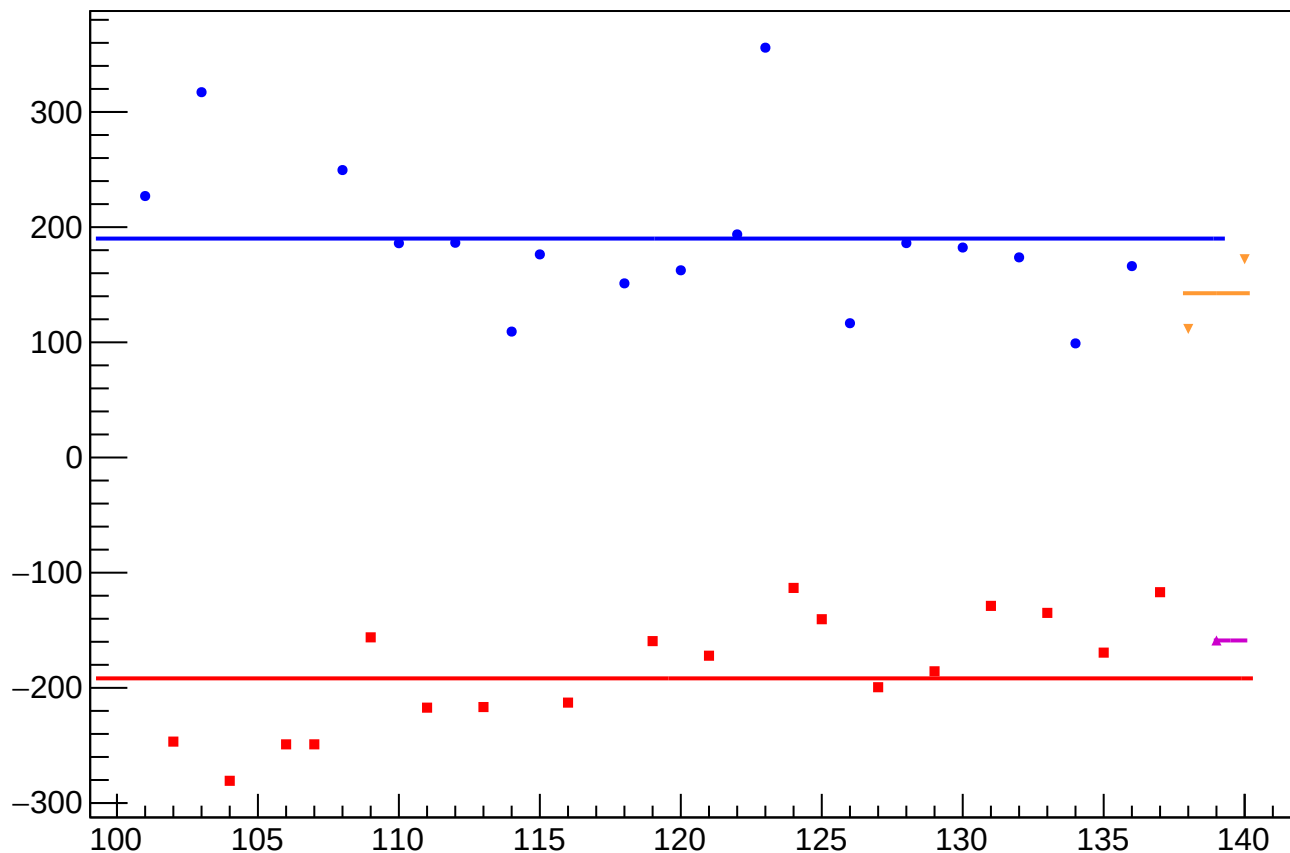
Right In: 6.036 +/- 0.000  $\chi^2/\text{NDF}$ : 1834282168572363767997793128415232.0/16  
 Left Out: 6.573 +/- 0.000  $\chi^2/\text{NDF}$ : 659043454830406429933113287114752.0/1  
 Right Out: -6.374 +/- 0.000  $\chi^2/\text{NDF}$ : 1775962730889931898255737308053504.0/17  
 Left In: -5.561 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.141 +/- 0.000  $\chi^2/\text{NDF}$ : 67989479917342

dit\_11X12X\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

# dit\_4aY\_coil4\_mean vs Slug, Sign Corrected



Right In: 190.085 +/- 0.000

$\chi^2/NDF$ : 1925698803891151227234396073587900416.0/16

Left Out: 142.632 +/- 0.000

$\chi^2/NDF$ : 146462683905193152064075307744755712.0/1

Right Out: -191.757 +/- 0.000

$\chi^2/NDF$ : 1600653754892471682568282524337831936.0/17

Left In: -158.845 +/- 0.000

$\chi^2/NDF$ : 0.0/0

Left: 41.306 +/- 0.000  $\chi^2/NDF$ : 50340682789210402

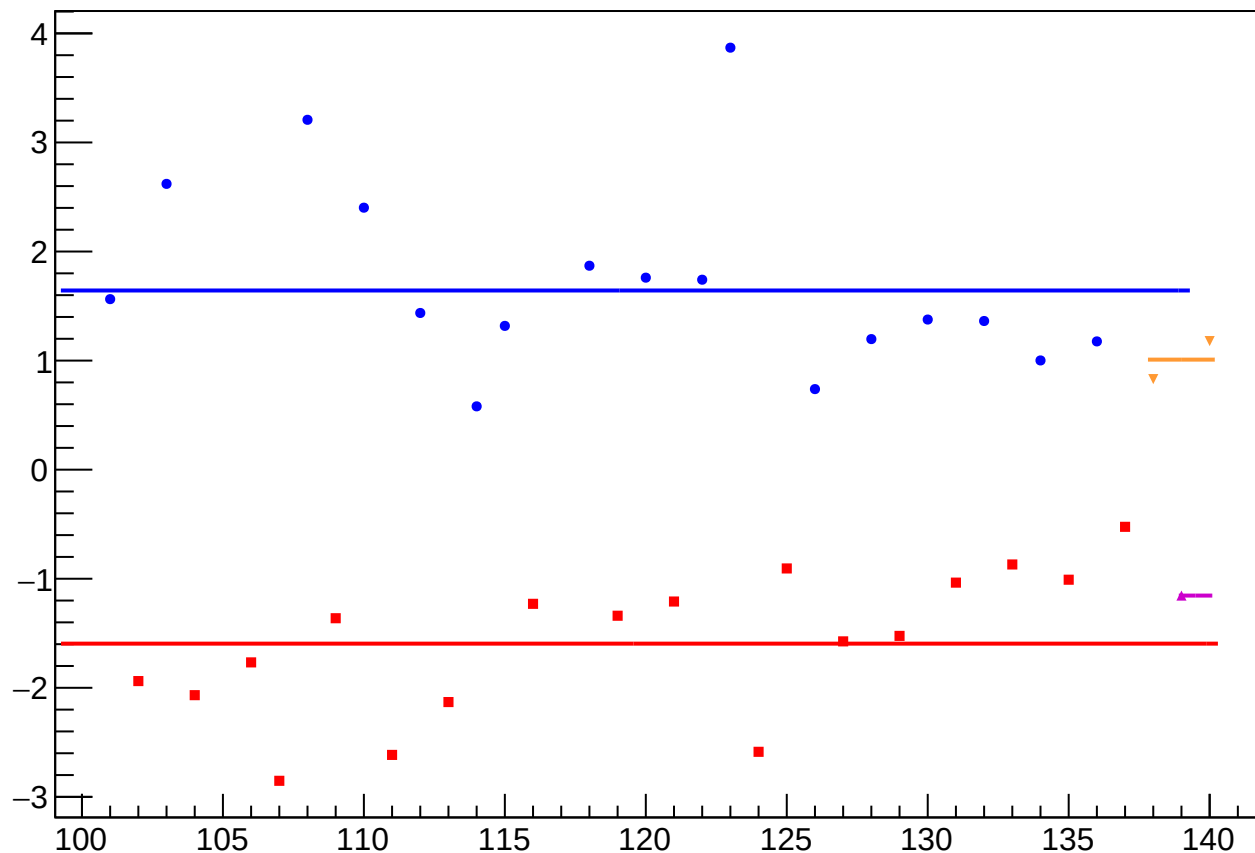
Right: -3.682 +/- 0.000  $\chi^2/NDF$ : 5487419432356628

In: 153.616 +/- 0.000  $\chi^2/NDF$ : 1075688138508953

Out: -130.612 +/- 0.000  $\chi^2/NDF$ : 163662848394064

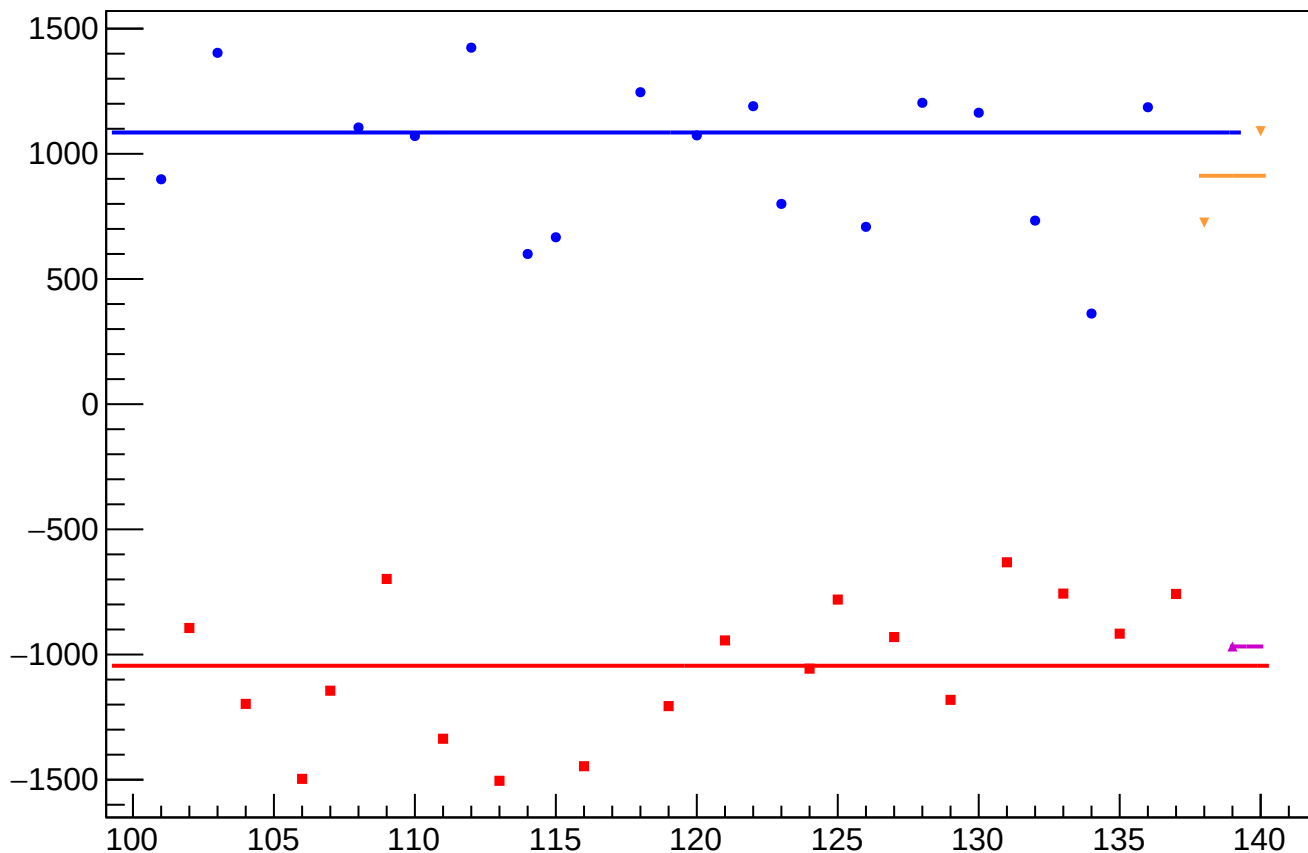
All: 2.889 +/- 0.000  $\chi^2/NDF$ : 60324774307642

dit\_4aY\_coil4\_err\_mean vs Slug, Sign Corrected



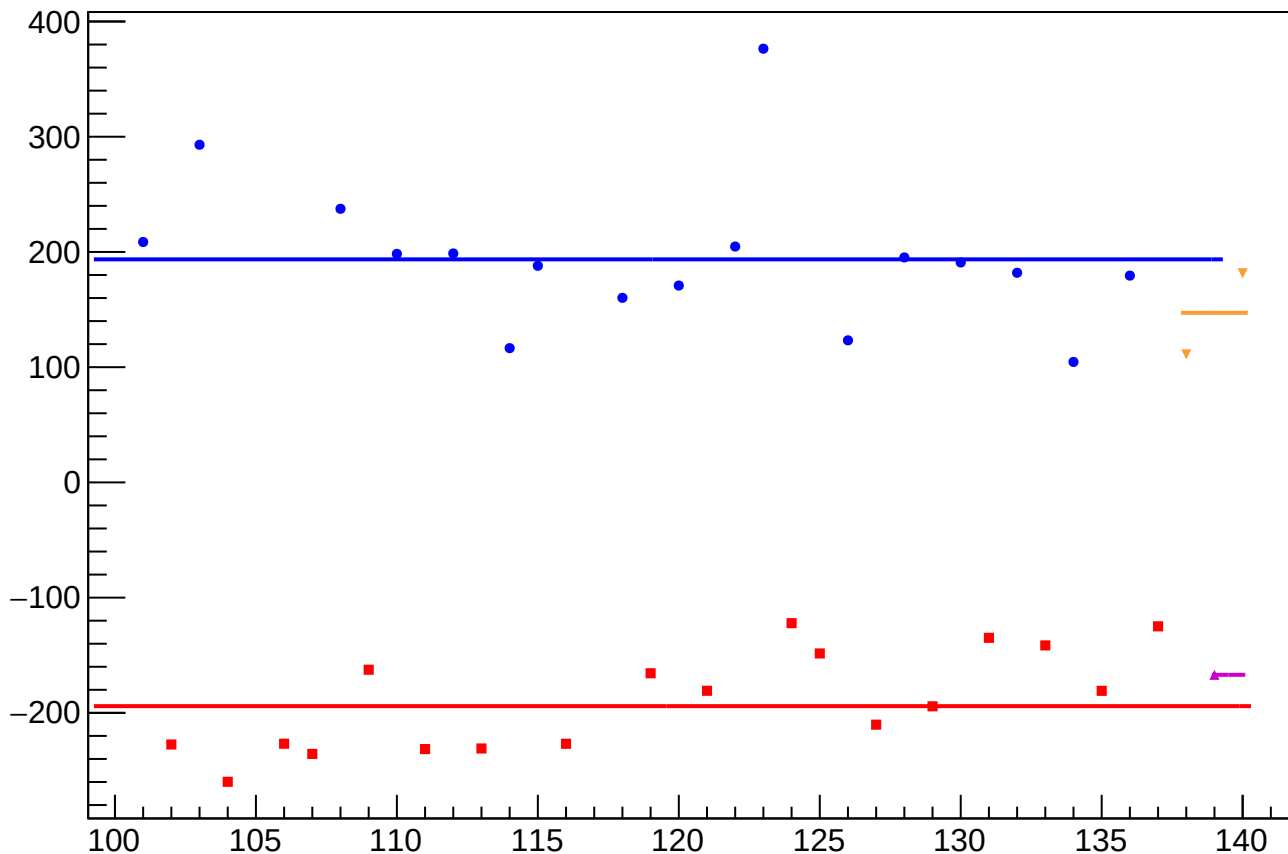
Right In: 1.643 $\pm$ 0.000  $\chi^2$ /NDF: 289253300871261454870716449030144.0/16  
 Left: 0.282 $\pm$ 0.000  $\chi^2$ /NDF: 256535472559507583  
 Left Out: 1.009 $\pm$ 0.000  $\chi^2$ /NDF: 4856780323227143225354108272640.0/1  
 Right: -0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4234795053533435  
 In: 1.350 $\pm$ 0.000  $\chi^2$ /NDF: 856786451364197925  
 Right Out: -1.595 $\pm$ 0.000  $\chi^2$ /NDF: 253487865182855947655895326916608.0/17  
 Out: -1.119 $\pm$ 0.000  $\chi^2$ /NDF: 11448933038139608  
 Left In: -1.154 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 4507708872814

dit\_4aY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                       |                                         |
|------------------------------|-------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: 280.477+/-0.000 | $\chi^2/\text{NDF}$ : 1954444039122650  |
| Left Out: 912.425+/-0.000    | $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1   | Right: 4.294+/-0.000  | $\chi^2/\text{NDF}$ : 16932734928141311 |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17 | In: 870.614+/-0.000   | $\chi^2/\text{NDF}$ : 35032103777114884 |
| Left In: -967.815+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -686.950+/-0.000 | $\chi^2/\text{NDF}$ : 557043237905784   |
|                              |                                                                   | All: 44.633+/-0.000   | $\chi^2/\text{NDF}$ : 1904415707412     |

# dit\_4eY\_coil4\_mean vs Slug, Sign Corrected



Right In: 193.573 +/- 0.000

$\chi^2/\text{NDF}$ : 1351064334288465855493252395600707584.0/16

Left Out: 147.190 +/- 0.000

$\chi^2/\text{NDF}$ : 197893574008879510303274859124228096.0/1

Right Out: -194.177 +/- 0.000

$\chi^2/\text{NDF}$ : 1137351144016205804609551236362928128.0/17

Left In: -166.980 +/- 0.000

$\chi^2/\text{NDF}$ : 65431.3/0

Left: 41.598 +/- 0.000  $\chi^2/\text{NDF}$ : 55057497346931405

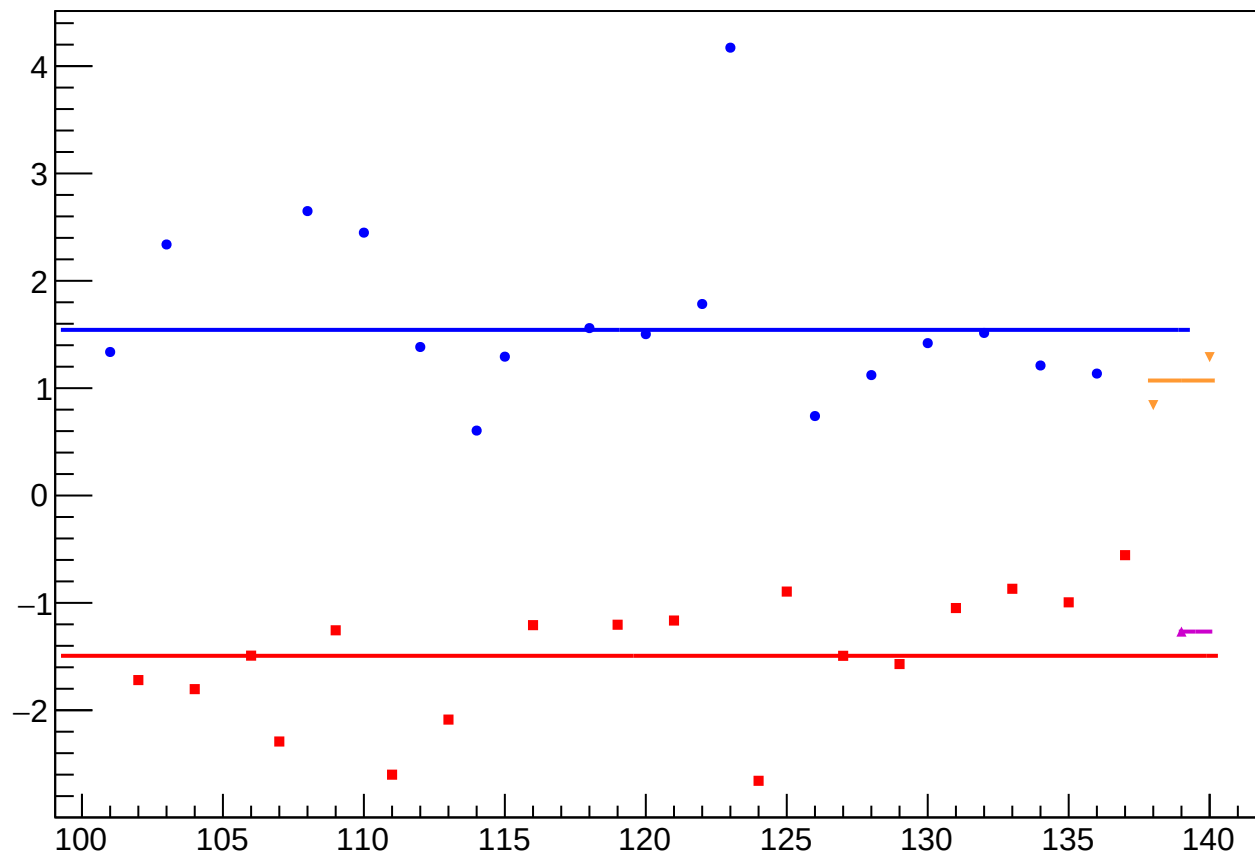
Right: -3.192 +/- 0.000  $\chi^2/\text{NDF}$ : 5543731806072889

In: 155.889 +/- 0.000  $\chi^2/\text{NDF}$ : 10780399372523542

Out: -131.755 +/- 0.000  $\chi^2/\text{NDF}$ : 165709049989246

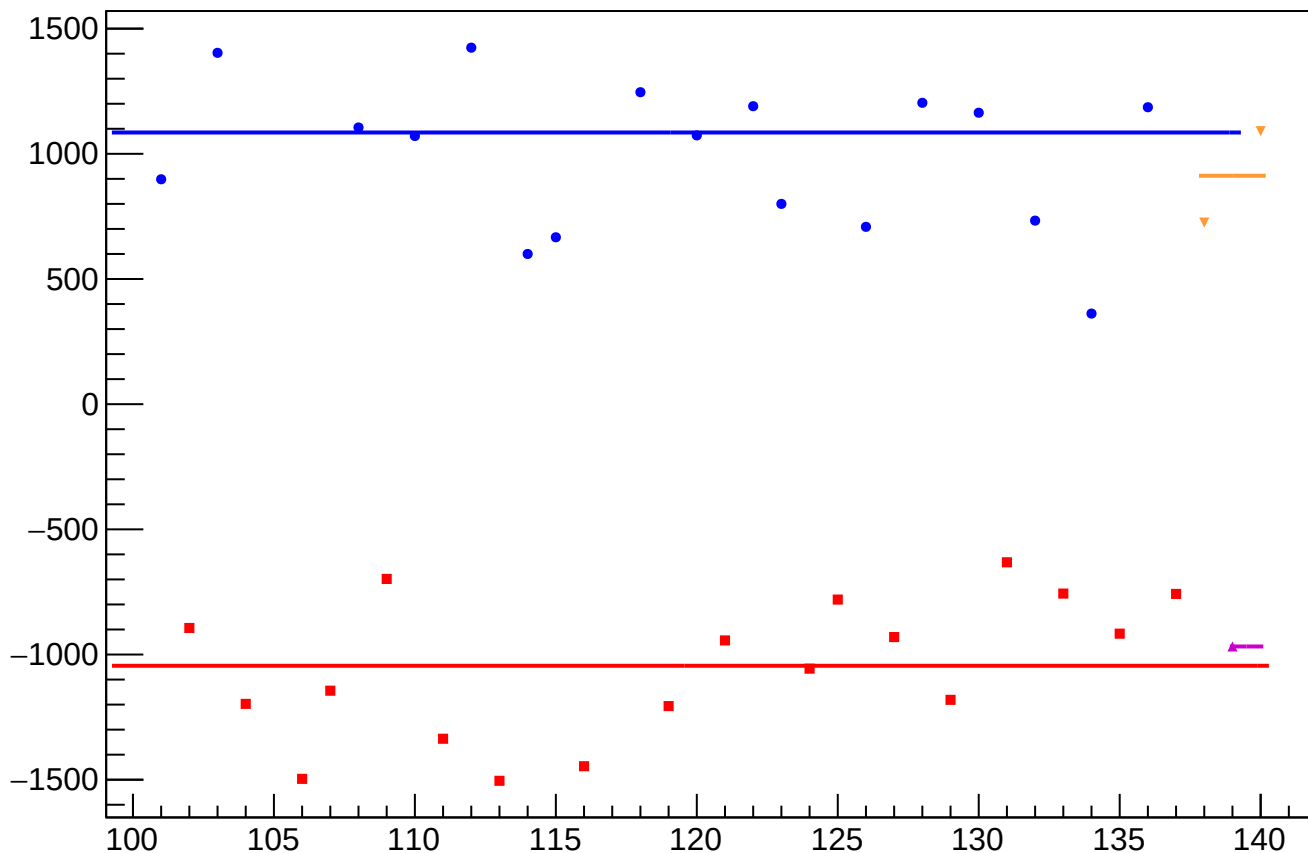
All: 3.350 +/- 0.000  $\chi^2/\text{NDF}$ : 61355917742608

dit\_4eY\_coil4\_err\_mean vs Slug, Sign Corrected



|                               |                                                             |                          |                                         |
|-------------------------------|-------------------------------------------------------------|--------------------------|-----------------------------------------|
| Right In: $1.543 \pm 0.000$   | $\chi^2/\text{NDF}: 211470615756148398389395258867712.0/16$ | Left: $0.285 \pm 0.000$  | $\chi^2/\text{NDF}: 302113008548616873$ |
| Left Out: $1.071 \pm 0.000$   | $\chi^2/\text{NDF}: 7981470448571418337724583641088.0/1$    | Right: $0.002 \pm 0.000$ | $\chi^2/\text{NDF}: 36565990241033160$  |
| Right Out: $-1.493 \pm 0.000$ | $\chi^2/\text{NDF}: 198853919603996729553220305682432.0/17$ | In: $1.249 \pm 0.000$    | $\chi^2/\text{NDF}: 784424094730172184$ |
| Left In: $-1.267 \pm 0.000$   | $\chi^2/\text{NDF}: 0.0/0$                                  | Out: $-1.024 \pm 0.000$  | $\chi^2/\text{NDF}: 10665372218939693$  |
|                               |                                                             | All: $0.044 \pm 0.000$   | $\chi^2/\text{NDF}: 39751727007215$     |

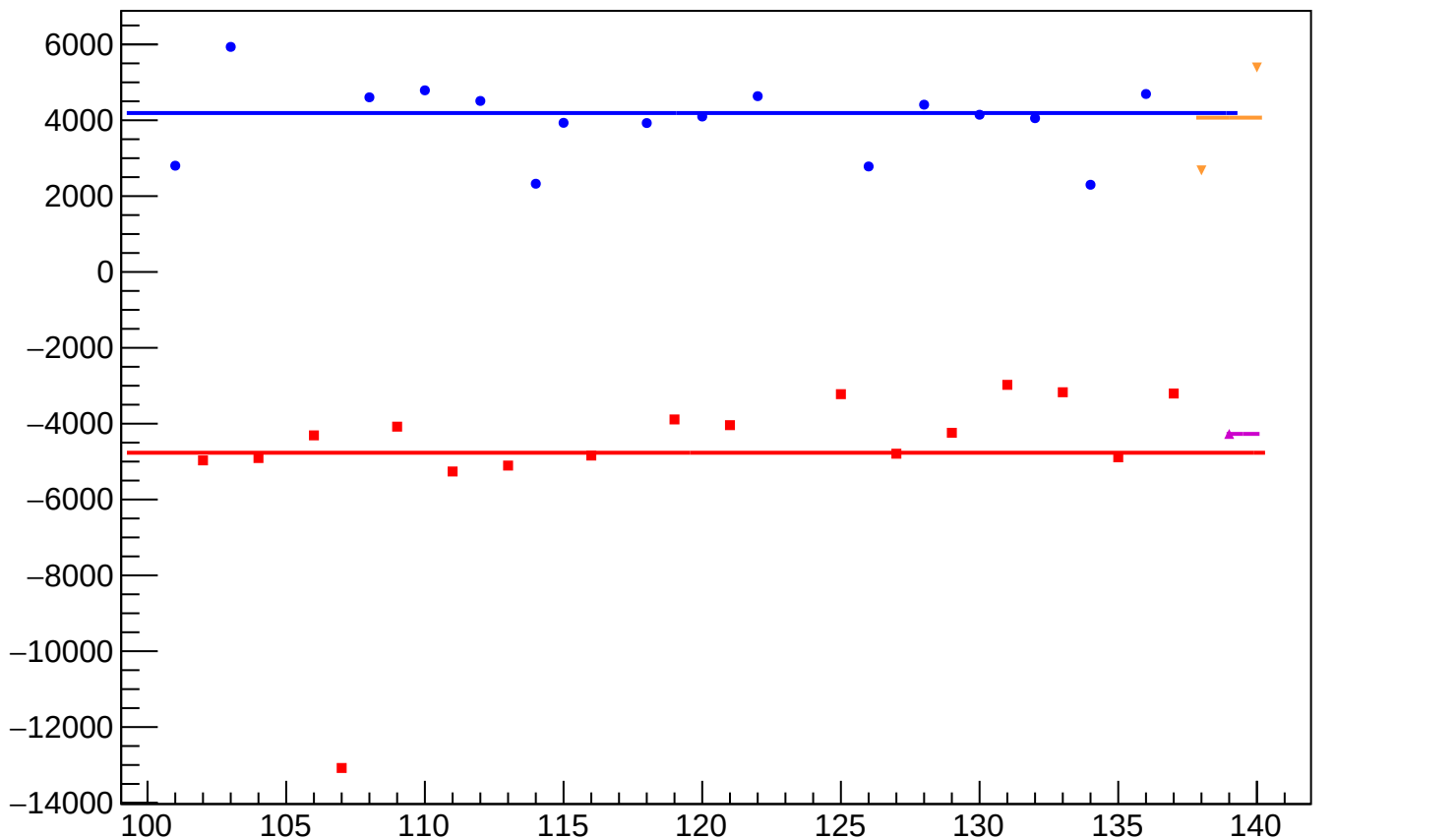
dit\_4eY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                       |                                         |
|------------------------------|-------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16 | Left: 280.477+/-0.000 | $\chi^2/\text{NDF}$ : 1954444039122650  |
| Left Out: 912.425+/-0.000    | $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1   | Right: 4.294+/-0.000  | $\chi^2/\text{NDF}$ : 16932734928141311 |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17 | In: 870.614+/-0.000   | $\chi^2/\text{NDF}$ : 35032103777114884 |
| Left In: -967.815+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -686.950+/-0.000 | $\chi^2/\text{NDF}$ : 557043237905784   |
|                              |                                                                   | All: 44.633+/-0.000   | $\chi^2/\text{NDF}$ : 1904415707412     |



dit\_usl\_coil4\_mean vs Slug, Sign Corrected



Right In: 4190.973+/-0.000

$\chi^2/\text{NDF}$ : 554038134535494230935556440305969397760.0/15

Left Out: 4069.076+/-0.000

$\chi^2/\text{NDF}$ : 294304217614317930033767126924590579712.0/1

Right Out: -4766.714+/-0.000

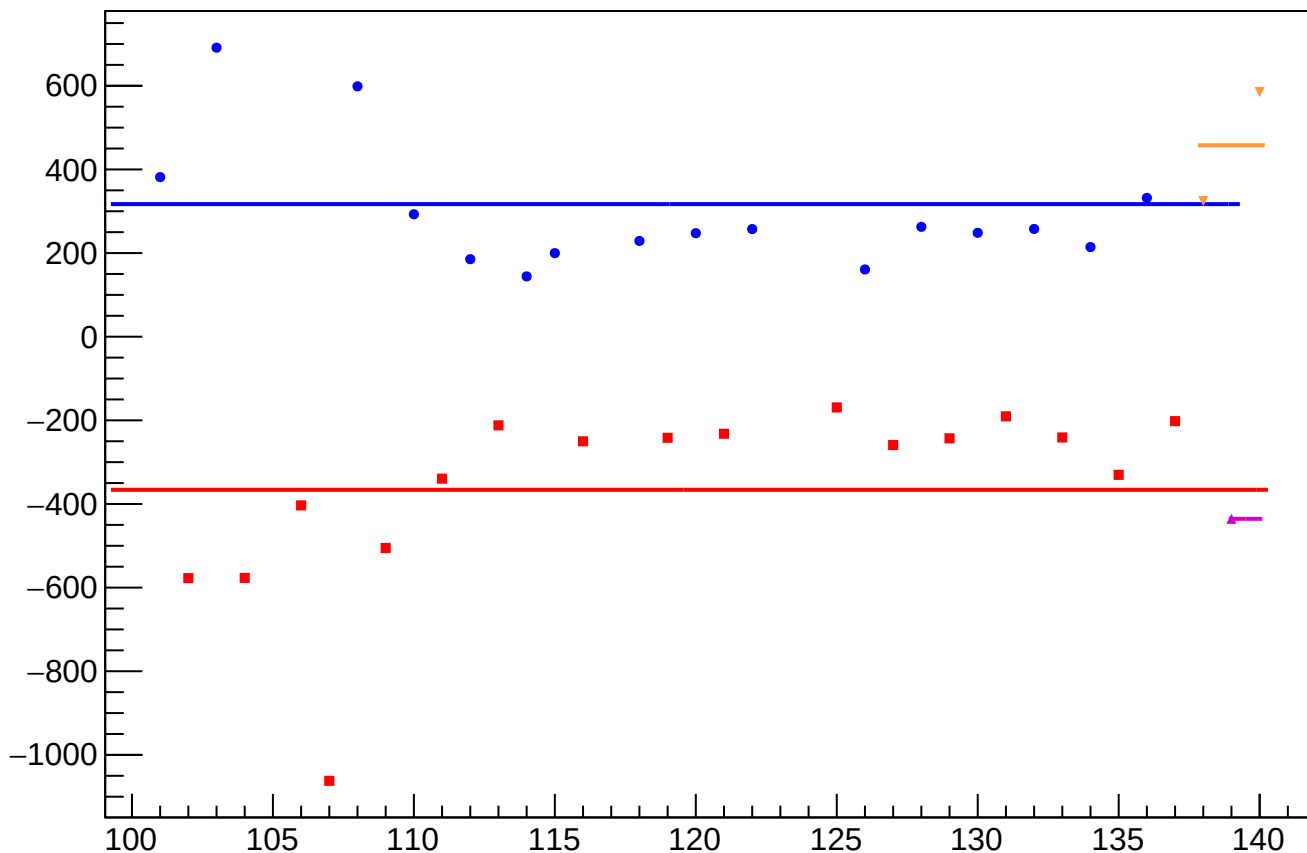
$\chi^2/\text{NDF}$ : 2969196242721495635889986773908602224640.0/16

Left In: -4270.163+/-0.000

$\chi^2/\text{NDF}$ : 67001629.6/0

All: -88.558+/-0.000  $\chi^2/\text{NDF}$ : 359780499812

dit\_usl\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 317.084+/-0.000

$\chi^2/\text{NDF}$ : 15440276359245580191741047920465543168.0/15

Left Out: 457.800+/-0.000

$\chi^2/\text{NDF}$ : 2716077835604505104887990681820200960.0/1

Right Out: -366.053+/-0.000

$\chi^2/\text{NDF}$ : 31157973605683459615642144815175434240.0/16

Left In: -435.465+/-0.000

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

Left: 157.574+/-0.000  $\chi^2/\text{NDF}$ : 4562507327096681

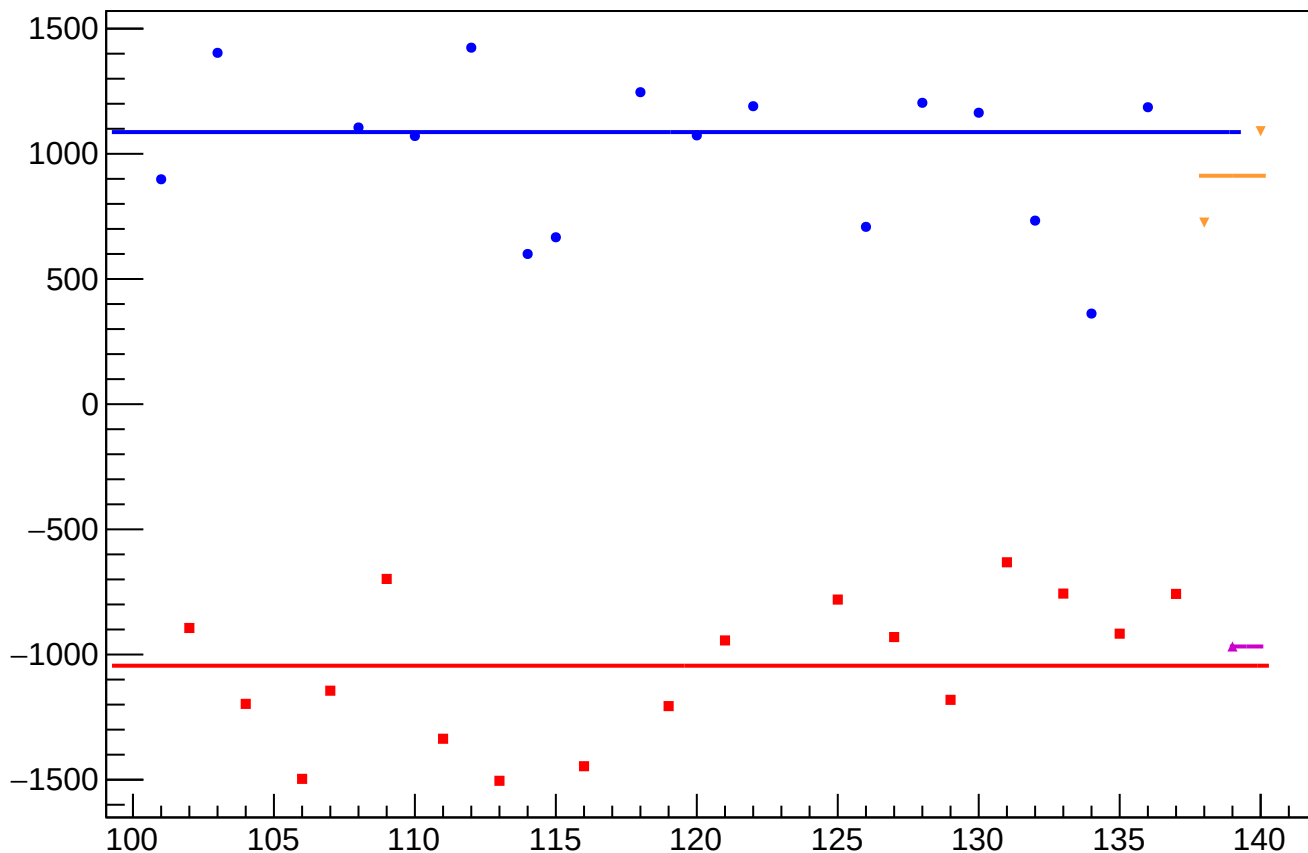
Right: -27.185+/-0.000  $\chi^2/\text{NDF}$ : 2088750005364701

In: 238.023+/-0.000  $\chi^2/\text{NDF}$ : 5649369260691684

Out: -212.956+/-0.000  $\chi^2/\text{NDF}$ : 122290815898793

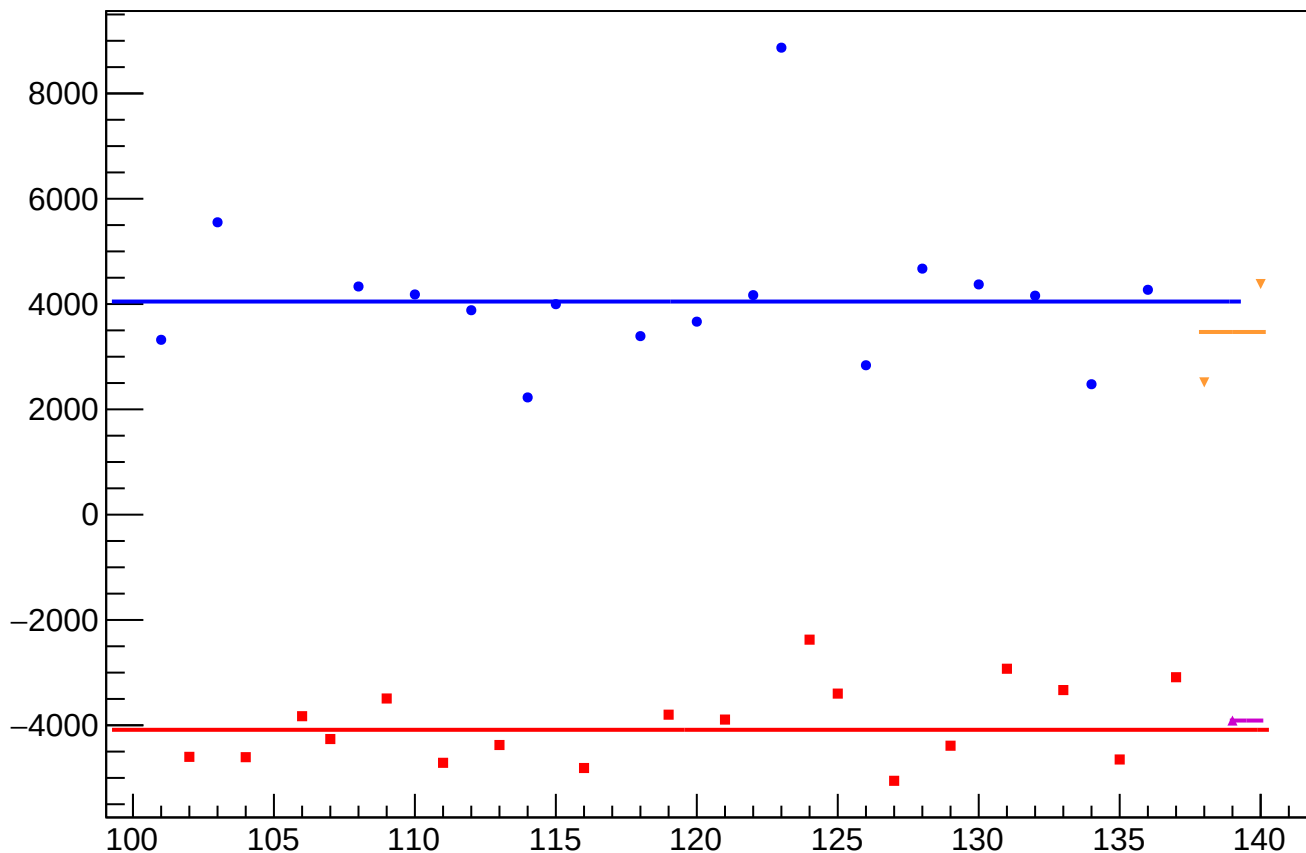
All: 0.098+/-0.000  $\chi^2/\text{NDF}$ : 26151202117468

dit\_usl\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Left:  $280.477 \pm 0.000$   $\chi^2/\text{NDF}: 1954444039122650$   
 Right:  $12.682 \pm 0.000$   $\chi^2/\text{NDF}: 1674891189801591$   
 Left In:  $912.425 \pm 0.000$   $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   
 Right In:  $1086.839 \pm 0.000$   $\chi^2/\text{NDF}: 44275849492978077110615226297834536960.0/15$   
 Left Out:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Right Out:  $-1044.621 \pm 0.000$   $\chi^2/\text{NDF}: 50844042601115178022623217176499191808.0/16$   
 In:  $870.981 \pm 0.000$   $\chi^2/\text{NDF}: 35030098883544898$   
 Out:  $-680.942 \pm 0.000$   $\chi^2/\text{NDF}: 555100956643326$   
 All:  $52.227 \pm 0.000$   $\chi^2/\text{NDF}: 1885066554335$

# dit\_usr\_coil4\_mean vs Slug, Sign Corrected



Right In: 4047.777+/-0.000

$\chi^2/\text{NDF}$ : 474277601546286209707812771687018004480.0/16

Left Out: 3469.670+/-0.000

$\chi^2/\text{NDF}$ : 139468020326717934788583772187462205440.0/1

Right Out: -4086.316+/-0.000

$\chi^2/\text{NDF}$ : 301982700213825275137563978140215148544.0/17

Left In: -3910.391+/-0.000

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

Left: 989.235+/-0.000  $\chi^2/\text{NDF}$ : 3068390073435299

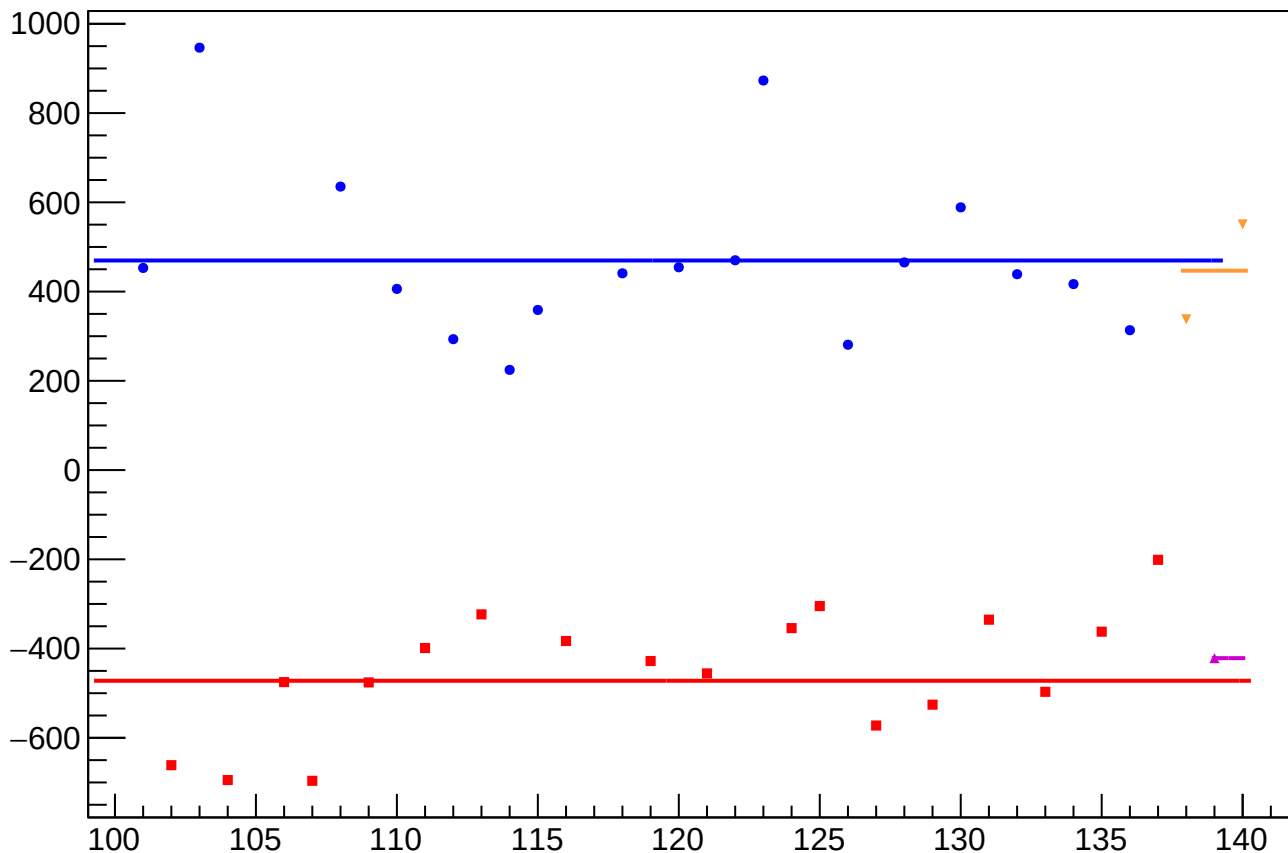
Right: -79.885+/-0.000  $\chi^2/\text{NDF}$ : 240771691026432

In: 3216.021+/-0.000  $\chi^2/\text{NDF}$ : 5068045002399770

Out: -2704.650+/-0.000  $\chi^2/\text{NDF}$ : 79059431887817

All: 76.271+/-0.000  $\chi^2/\text{NDF}$ : 2738079153743

dit\_usr\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 469.645+/-0.000  $\chi^2/\text{NDF}$ : 22201042961896219188176863921652629504.0/16

Left Out: 446.853+/-0.000  $\chi^2/\text{NDF}$ : 1808167659757001578630942327167778816.0/1

Right Out: -472.112+/-0.000  $\chi^2/\text{NDF}$ : 12398871924669384395849092219212398592.0/17

Left In: -421.440+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 155.020+/-0.000  $\chi^2/\text{NDF}$ : 4235165294476250

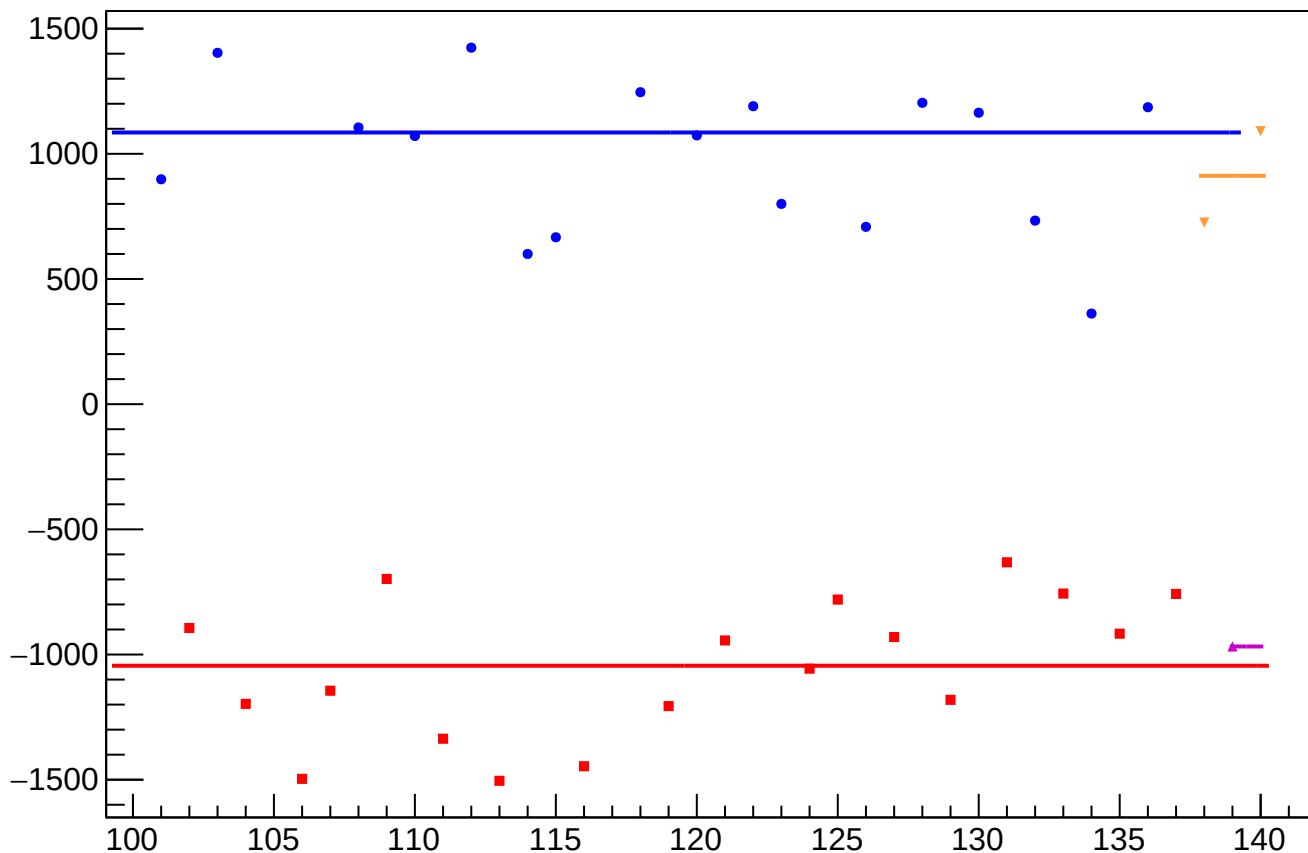
Right: -8.251+/-0.000  $\chi^2/\text{NDF}$ : 3469433429458218

In: 376.512+/-0.000  $\chi^2/\text{NDF}$ : 79795644411394510

Out: -304.073+/-0.000  $\chi^2/\text{NDF}$ : 124618930148720

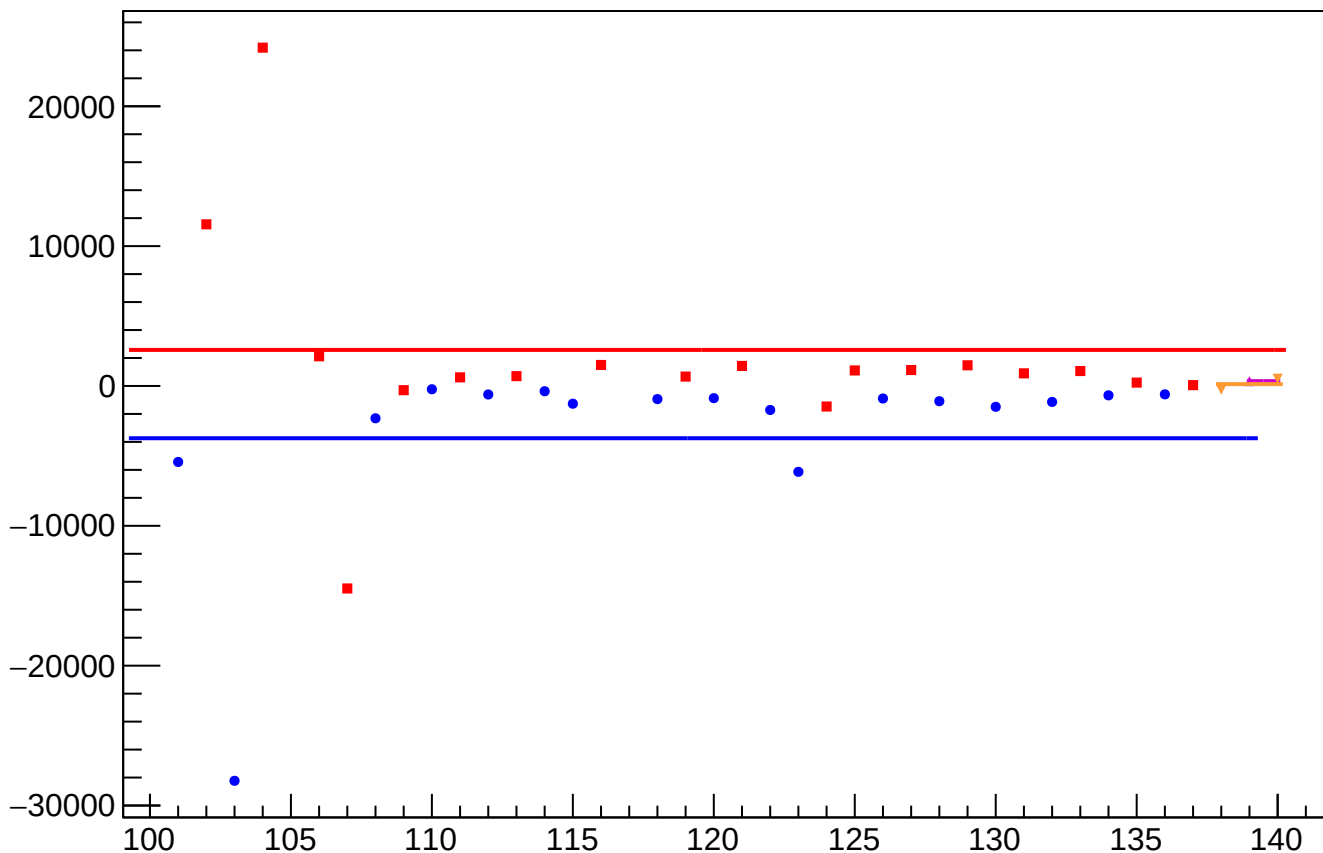
All: 15.596+/-0.000  $\chi^2/\text{NDF}$ : 3947810984140

dit\_usr\_coil4\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                  |                       |                                        |
|------------------------------|------------------------------------------------------------------|-----------------------|----------------------------------------|
| Right In: 1085.186+/-0.000   | $\chi^2/\text{NDF}: 44603059371113642027482174752630505472.0/16$ | Left: 280.477+/-0.000 | $\chi^2/\text{NDF}: 1954444039122650$  |
| Left Out: 912.425+/-0.000    | $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   | Right: 4.294+/-0.000  | $\chi^2/\text{NDF}: 16932734928141311$ |
| Right Out: -1044.852+/-0.000 | $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$ | In: 870.614+/-0.000   | $\chi^2/\text{NDF}: 35032103777114884$ |
| Left In: -967.815+/-0.000    | $\chi^2/\text{NDF}: 0.0/0$                                       | Out: -686.950+/-0.000 | $\chi^2/\text{NDF}: 557043237905784$   |
|                              |                                                                  | All: 44.633+/-0.000   | $\chi^2/\text{NDF}: 1904415707412$     |

# dit\_atl1\_coil4\_mean vs Slug, Sign Corrected



Right In: -3737.261+/-0.000

$\chi^2/\text{NDF}$ : 39970682954500817220133496875438988853248.0/16

Left Out: 132.729+/-0.000

$\chi^2/\text{NDF}$ : 24819707505358622095972275800409899008.0/1

Right Out: 2578.788+/-0.000

$\chi^2/\text{NDF}$ : 41033783209718443304558448411646302879744.0/17

Left In: 344.091+/-0.000

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

In: -3310.694+/-0.000

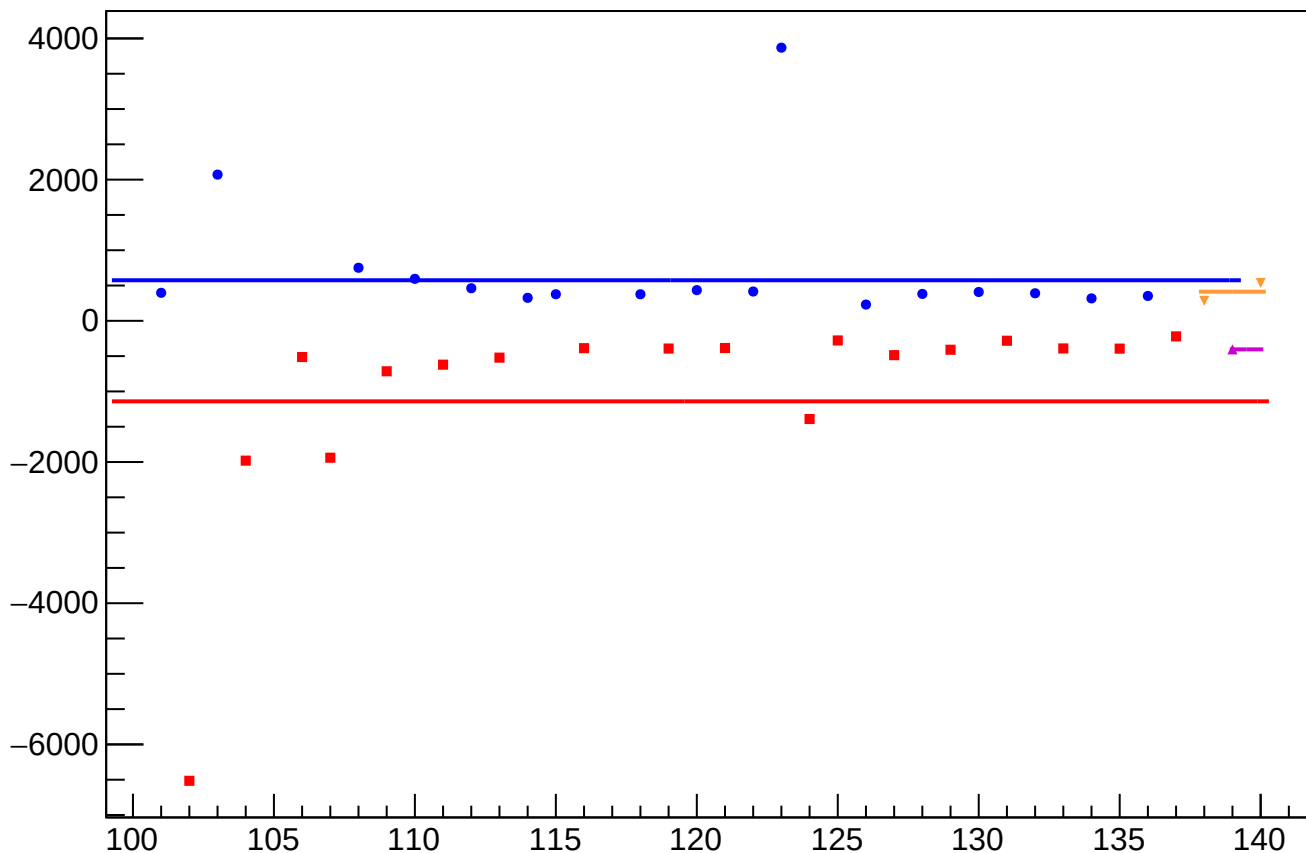
$\chi^2/\text{NDF}$ : 411789164366672

Out: 2131.508+/-0.000

$\chi^2/\text{NDF}$ : 418408640873460

All: -424.677+/-0.000  $\chi^2/\text{NDF}$ : 95192149595

dit\_atl1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 574.655+/-0.000

$\chi^2/\text{NDF}$ : 199698400452439530730016550179978608640.0/16

Left Out: 412.817+/-0.000

$\chi^2/\text{NDF}$ : 2575703242593588029662644088728453120.0/1

Right Out: -1140.608+/-0.000

$\chi^2/\text{NDF}$ : 2013558101221942862779211693423515926528.0/17

Left In: -404.411+/-0.000

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

Left: 138.147+/-0.000  $\chi^2/\text{NDF}$ : 3849061865084738

Right: -295.759+/-0.000  $\chi^2/\text{NDF}$ : 32493906900283

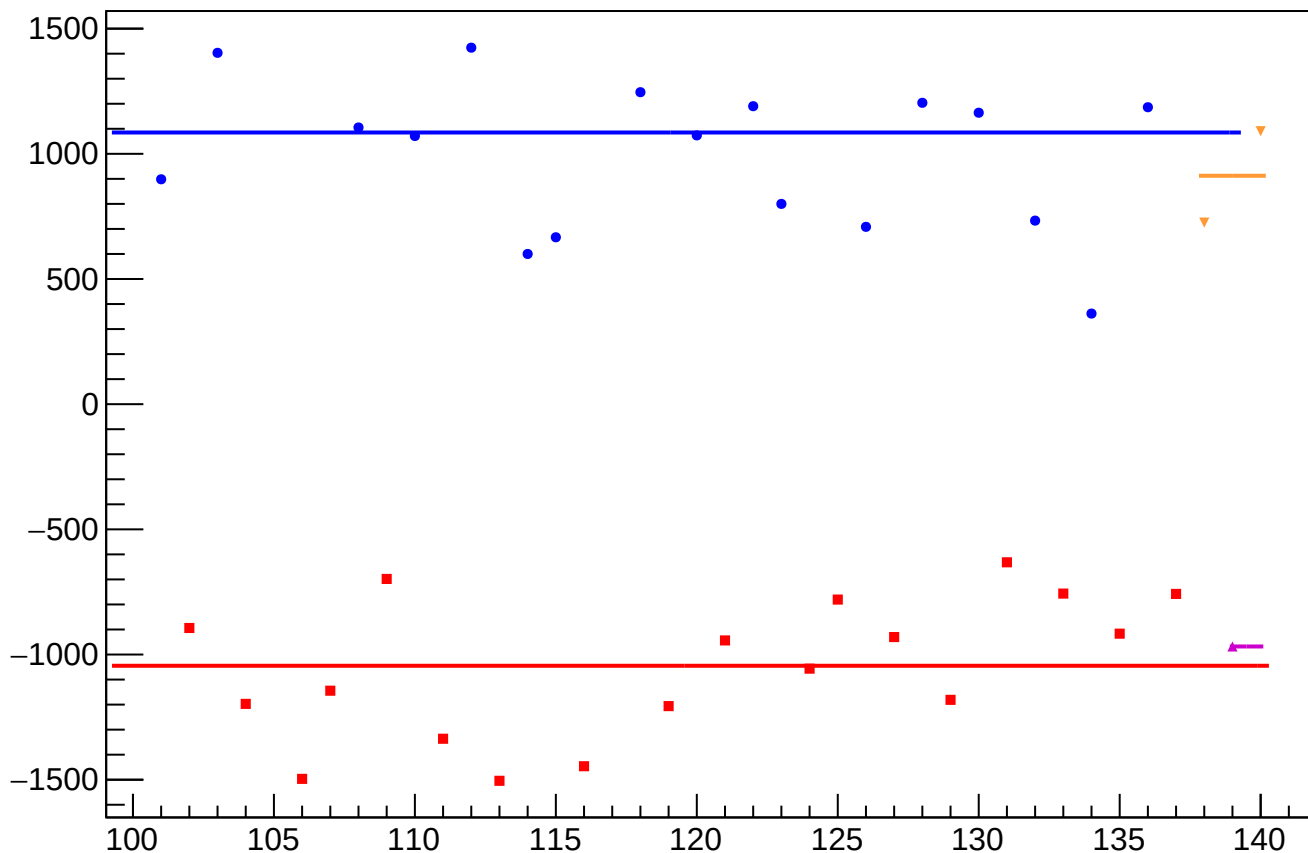
In: 472.327+/-0.000  $\chi^2/\text{NDF}$ : 2692275923743843

Out: -856.553+/-0.000  $\chi^2/\text{NDF}$ : 233163319992769

All: -232.382+/-0.000  $\chi^2/\text{NDF}$ : 33266279976

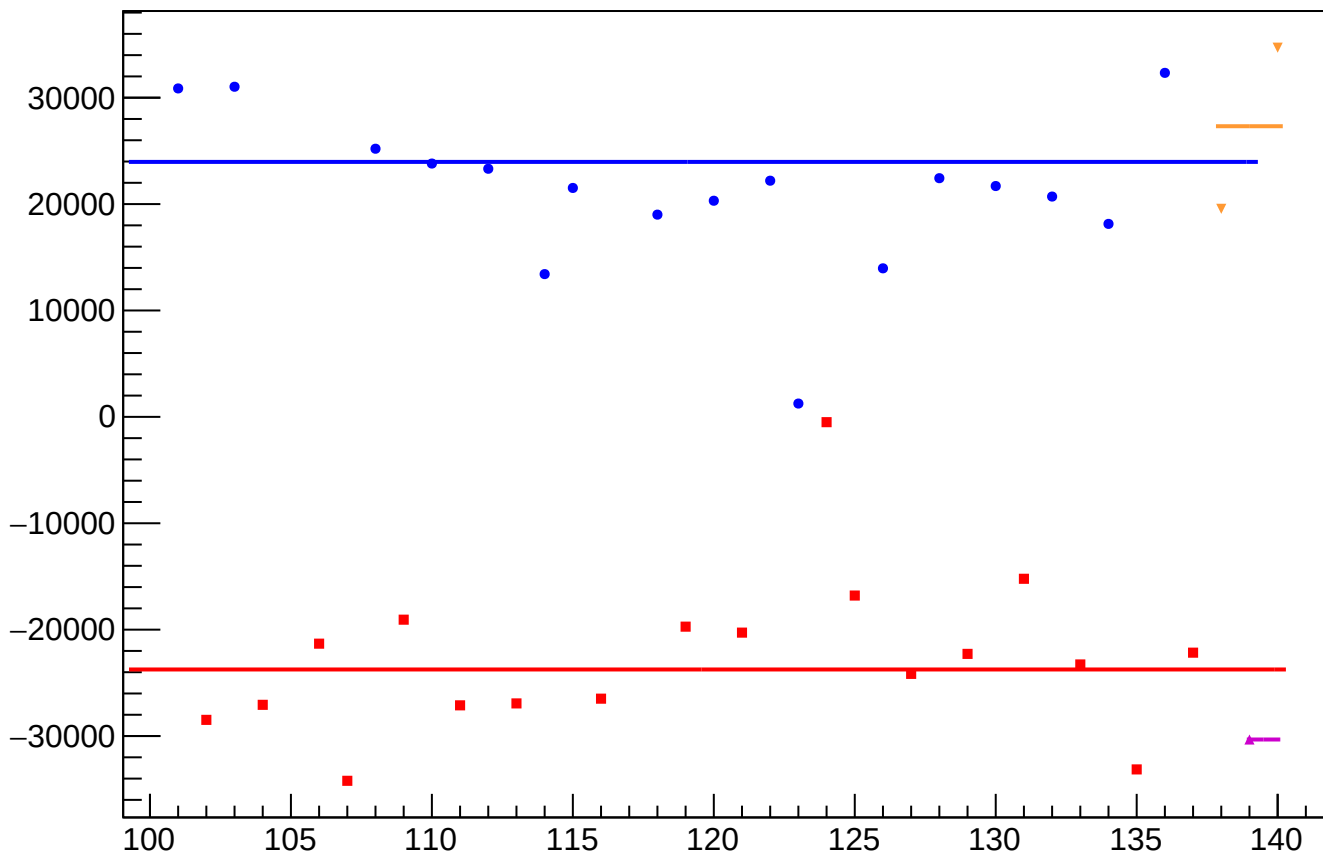


dit\_atl1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

# dit\_atl2\_coil4\_mean vs Slug, Sign Corrected



Right In: 23965.147+/-0.000

$\chi^2/\text{NDF}$ : 22982900561545593794269983567622080299008.0/16

Left Out: 27318.309+/-0.000

$\chi^2/\text{NDF}$ : 9170482983934765044936448458226009112576.0/1

Right Out: -23743.519+/-0.000

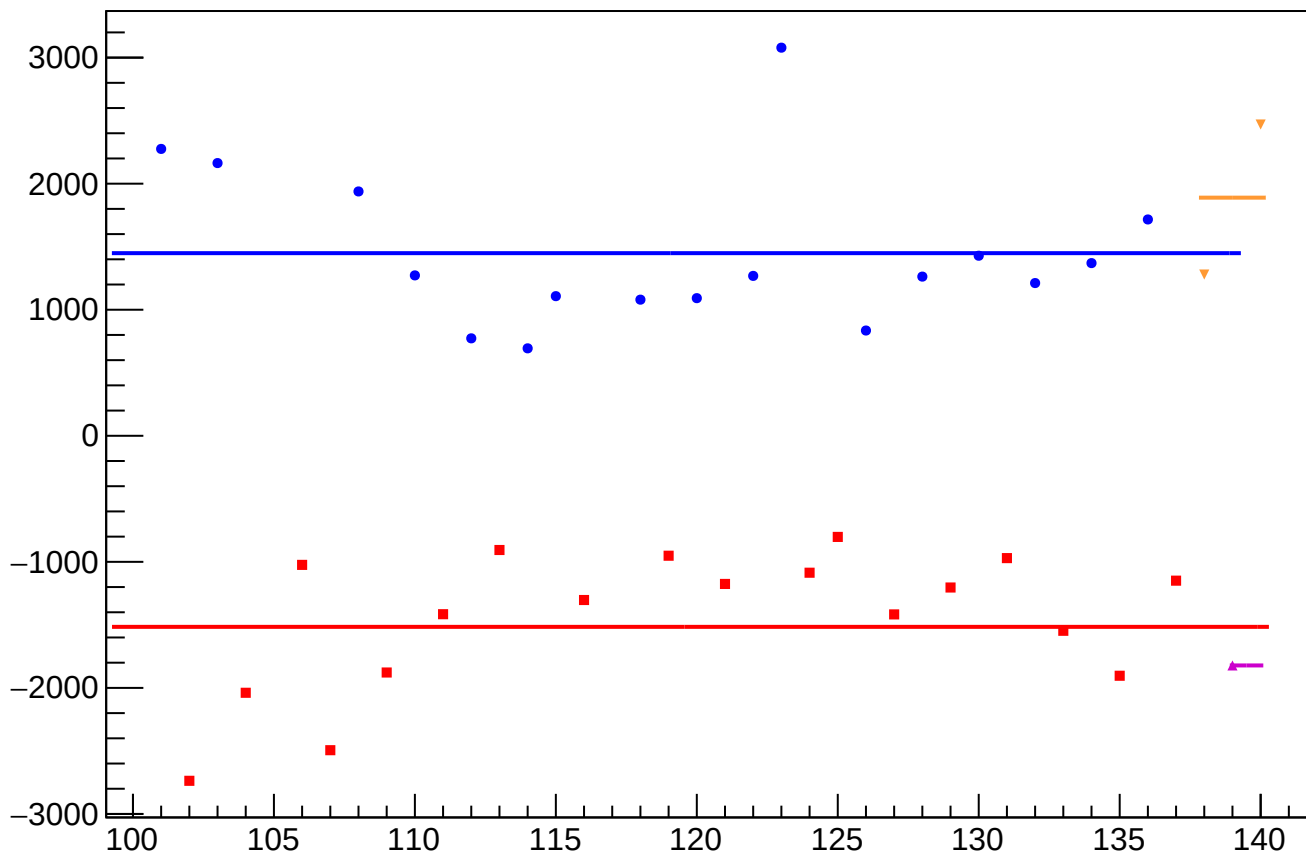
$\chi^2/\text{NDF}$ : 25937218131071515690144071247519476088832.0/17

Left In: -30325.777+/-0.000

$\chi^2/\text{NDF}$ : 1072026073.9/0

All: 951.356+/-0.000  $\chi^2/\text{NDF}$ : 105216390317

dit\_atl2\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 1448.784+/-0.000

$\chi^2/\text{NDF}$ : 161243667372586677805499102921584803840.0/16

Left Out: 1889.135+/-0.000

$\chi^2/\text{NDF}$ : 56631099609892577375024317062795231232.0/1

Right Out: -1515.702+/-0.000

$\chi^2/\text{NDF}$ : 234412516405982646618467253110689497088.0/17

Left In: -1821.845+/-0.000

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

Left: 641.876+/-0.000  $\chi^2/\text{NDF}$ : 7971992479072814

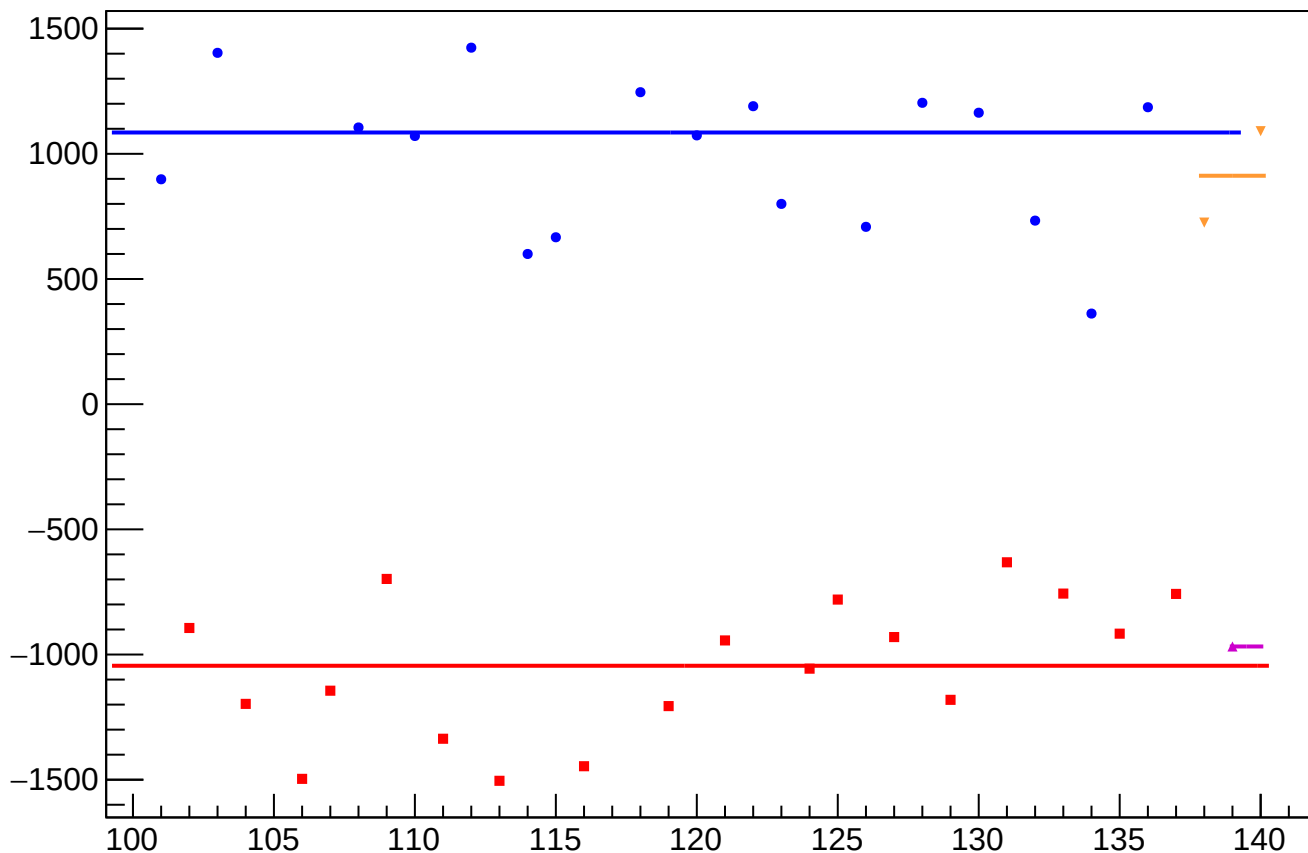
Right: -55.550+/-0.000  $\chi^2/\text{NDF}$ : 349060323301612

In: 1106.951+/-0.000  $\chi^2/\text{NDF}$ : 9371428360312414

Out: -893.103+/-0.000  $\chi^2/\text{NDF}$ : 180673375659307

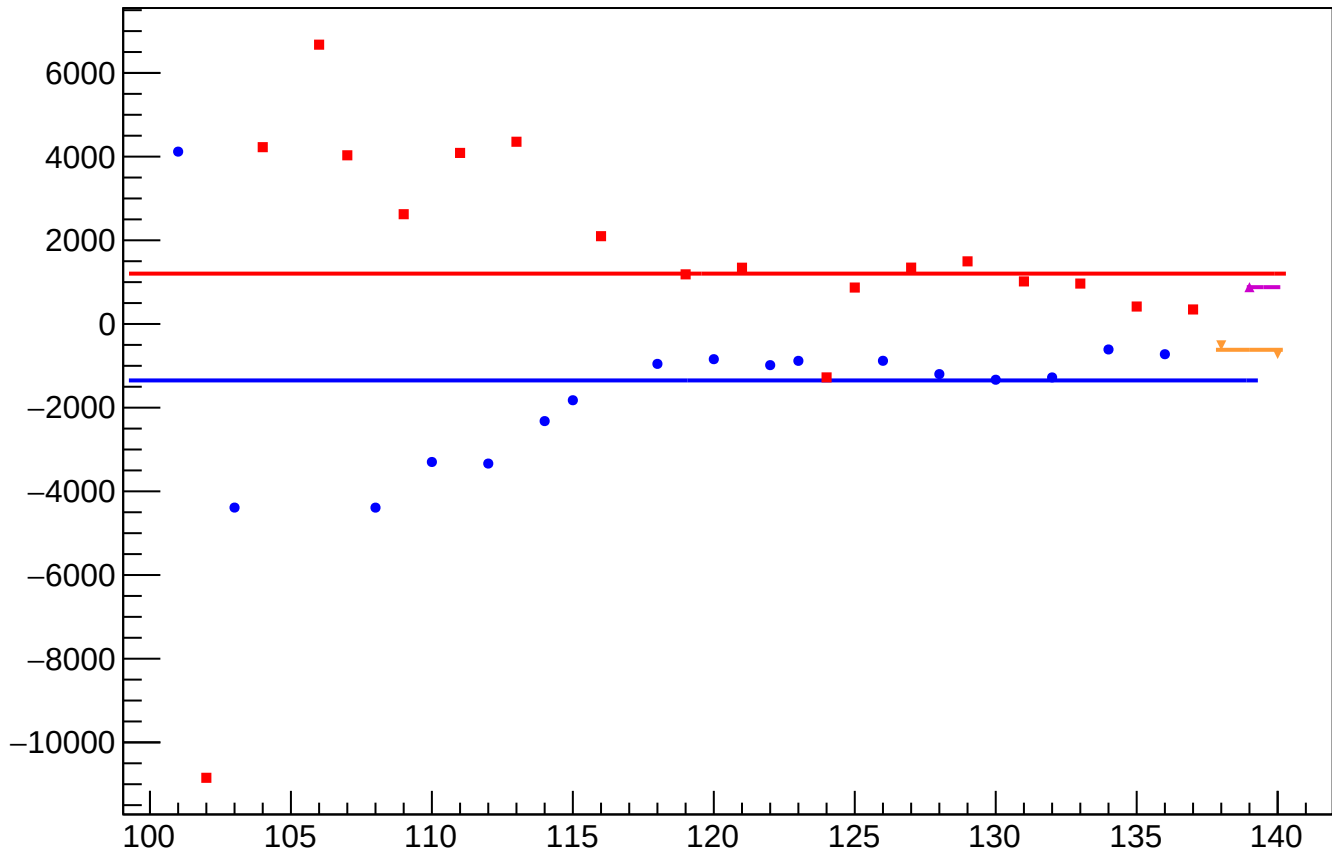
All: 46.316+/-0.000  $\chi^2/\text{NDF}$ : 4387904048003

dit\_atl2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



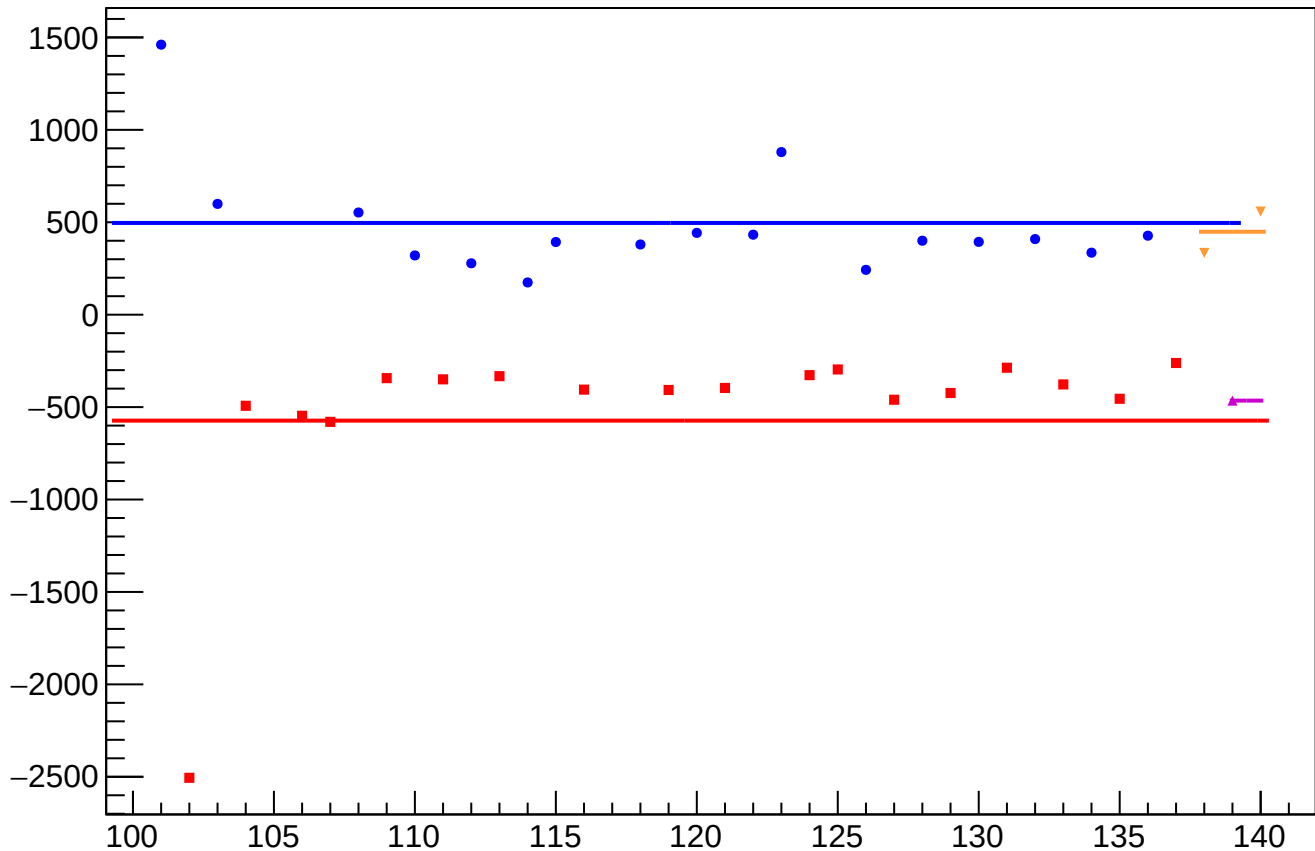
|                                  |                                                                  |                           |                                        |
|----------------------------------|------------------------------------------------------------------|---------------------------|----------------------------------------|
| Right In: $1085.186 \pm 0.000$   | $\chi^2/\text{NDF}: 44603059371113642027482174752630505472.0/16$ | Left: $280.477 \pm 0.000$ | $\chi^2/\text{NDF}: 1954444039122650$  |
| Left Out: $912.425 \pm 0.000$    | $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   | Right: $4.294 \pm 0.000$  | $\chi^2/\text{NDF}: 16932734928141311$ |
| Right Out: $-1044.852 \pm 0.000$ | $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$ | In: $870.614 \pm 0.000$   | $\chi^2/\text{NDF}: 35032103777114884$ |
| Left In: $-967.815 \pm 0.000$    | $\chi^2/\text{NDF}: 0.0/0$                                       | Out: $-686.950 \pm 0.000$ | $\chi^2/\text{NDF}: 557043237905784$   |
|                                  |                                                                  | All: $44.633 \pm 0.000$   | $\chi^2/\text{NDF}: 1904415707412$     |

# dit\_atr1\_coil4\_mean vs Slug, Sign Corrected



Left:  $-113.789 \pm 0.000$   $\chi^2/\text{NDF}: 122233386701833$   
 Right In:  $-1349.176 \pm 0.000$   $\chi^2/\text{NDF}: 3084941184045918680057306663363310256128.0/16$   
 Left Out:  $-616.954 \pm 0.000$   $\chi^2/\text{NDF}: 1709626380182628163859851400204779520.0/1$   
 Right Out:  $1203.612 \pm 0.000$   $\chi^2/\text{NDF}: 11193438968454164485978999260490441424896.0/17$   
 Left In:  $880.117 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $-62.526 \pm 0.000$   $\chi^2/\text{NDF}: 166963615102$

dit\_atr1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 496.351+/-0.000

$\chi^2/\text{NDF}$ : 66983748455015205041159290240142147584.0/16

Left Out: 448.689+/-0.000

$\chi^2/\text{NDF}$ : 2002580610171378105581258322120540160.0/1

Right Out: -573.168+/-0.000

$\chi^2/\text{NDF}$ : 240073229917698868720276393416726675456.0/17

Left In: -464.874+/-0.000

$\chi^2/\text{NDF}$ : 261725.1/0

Left: 141.641+/-0.000  $\chi^2/\text{NDF}$ : 4688383533825054

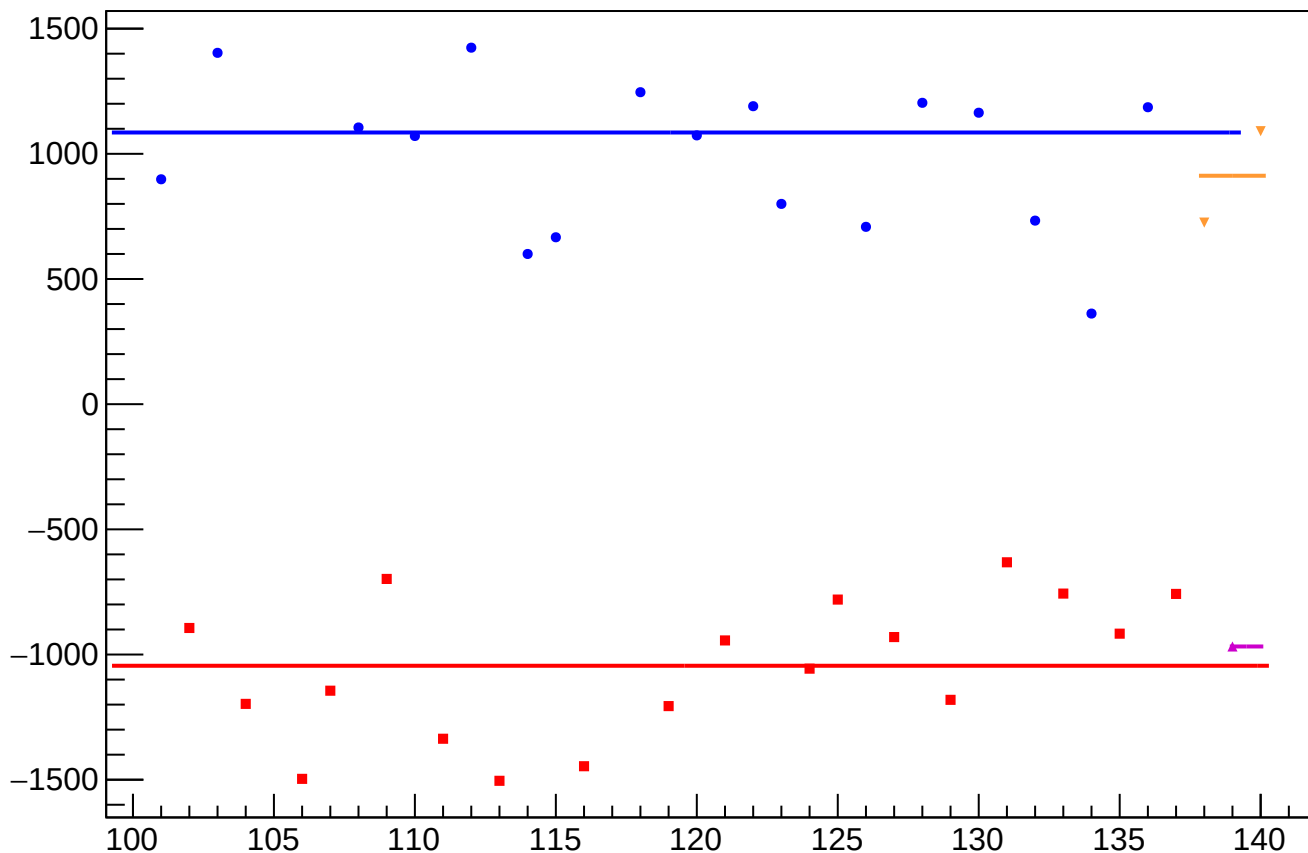
Right: -46.379+/-0.000  $\chi^2/\text{NDF}$ : 709896081786288

In: 395.888+/-0.000  $\chi^2/\text{NDF}$ : 1340019827035788

Out: -386.314+/-0.000  $\chi^2/\text{NDF}$ : 378596435312533

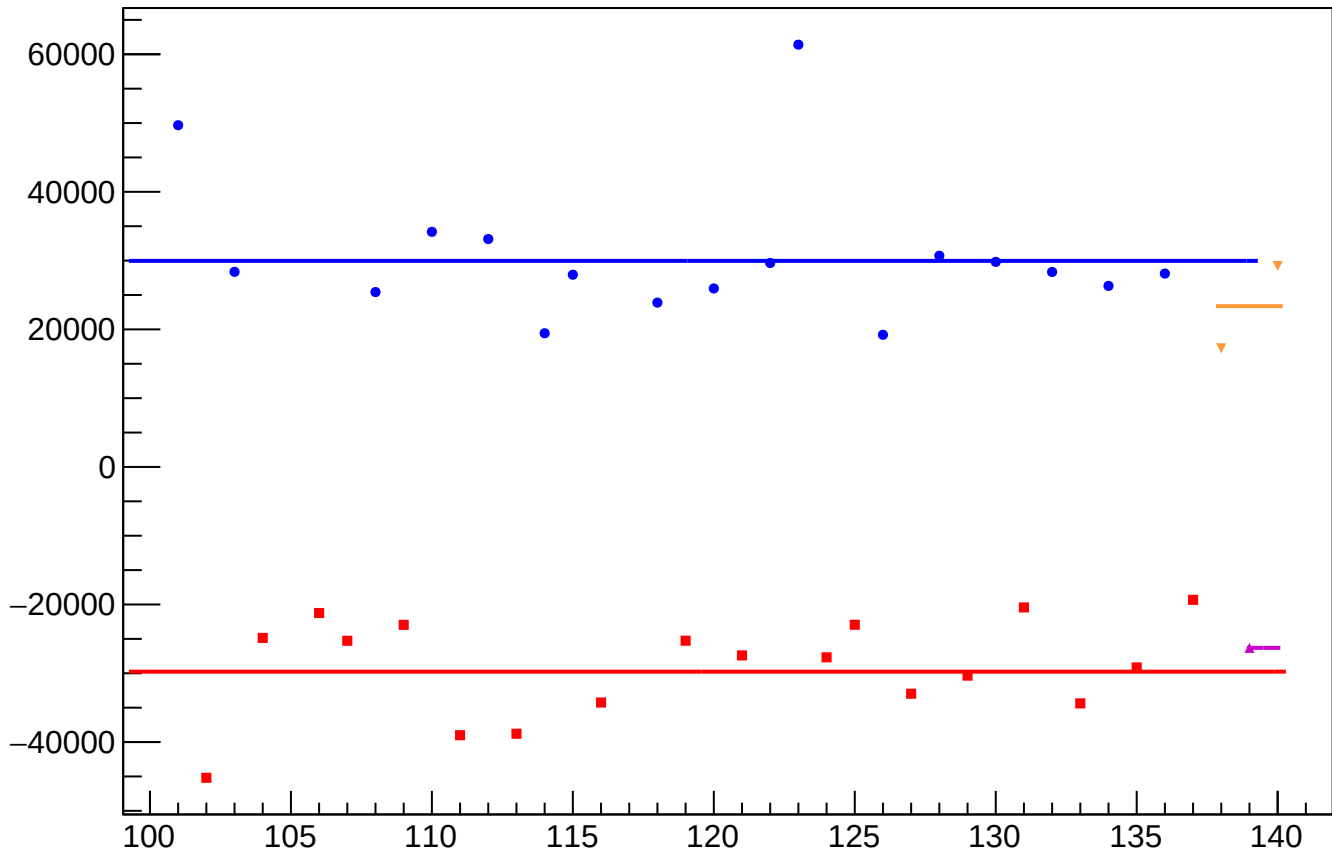
All: -18.916+/-0.000  $\chi^2/\text{NDF}$ : 764055199901

dit\_atr1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

# dit\_atr2\_coil4\_mean vs Slug, Sign Corrected



Right In: 29960.563+/-0.000

$\chi^2/\text{NDF}$ : 38272709086570322906485359352807285587968.0/16

Left Out: 23374.785+/-0.000

$\chi^2/\text{NDF}$ : 5726174345436402849145835057952971554816.0/1

Right Out: -29764.245+/-0.000

$\chi^2/\text{NDF}$ : 38095124017741211444799459233695721848832.0/17

Left In: -26302.813+/-0.000

$\chi^2/\text{NDF}$ : 1072026073.9/0

Left: 6678.165+/-0.000  $\chi^2/\text{NDF}$ : 138437854155007

Right: -346.916+/-0.000  $\chi^2/\text{NDF}$ : 13325830607857

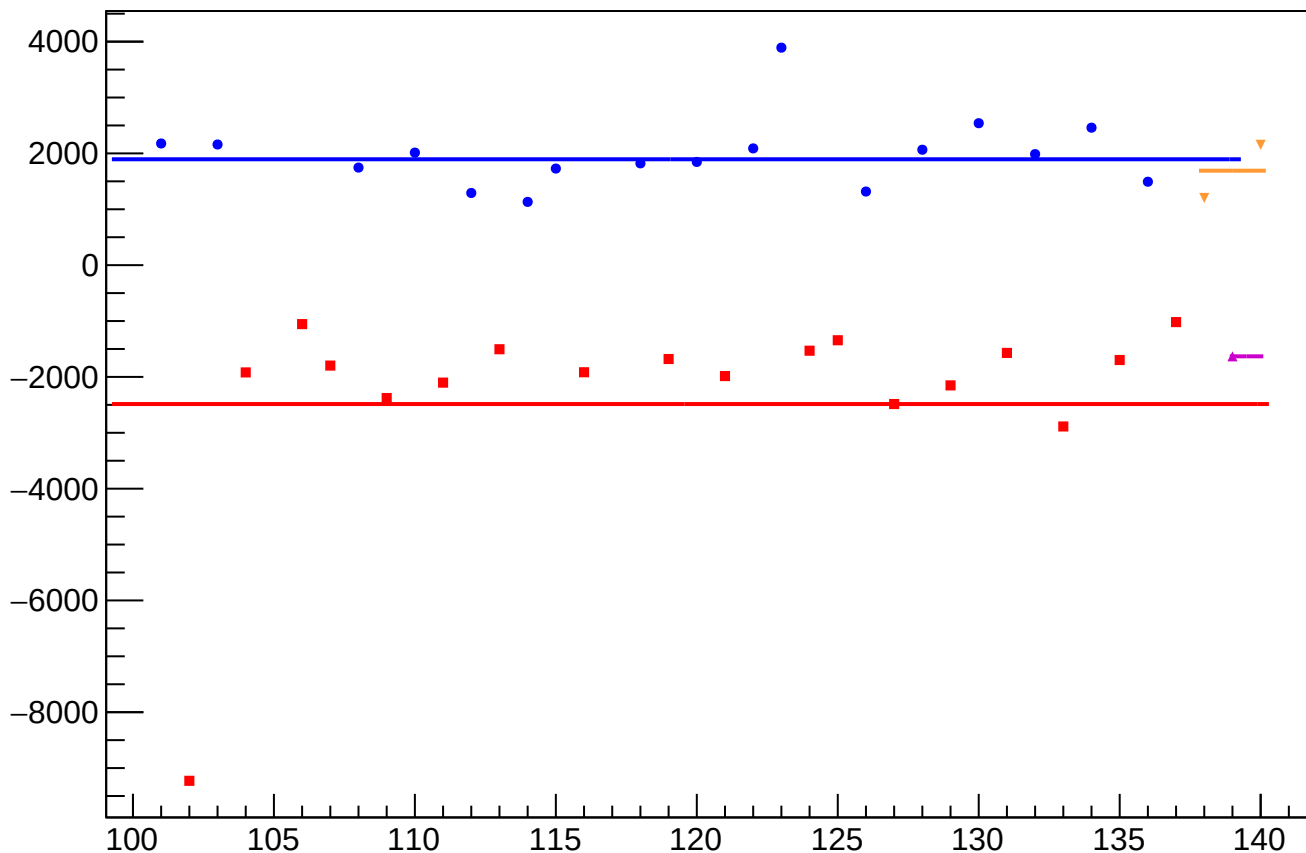
In: 24080.133+/-0.000  $\chi^2/\text{NDF}$ : 267884596436619

Out: -20047.394+/-0.000  $\chi^2/\text{NDF}$ : 4130073041528

All: 679.172+/-0.000  $\chi^2/\text{NDF}$ : 148117747822



dit\_atr2\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 1894.762+/-0.000  $\chi^2/\text{NDF}$ : 112136505207273757562412234872415322112.0/16

Left Out: 1690.297+/-0.000  $\chi^2/\text{NDF}$ : 36163888892827285492266547345304322048.0/1

Right Out: -2485.438+/-0.000  $\chi^2/\text{NDF}$ : 3007798896738182941908815432963258843136.0/17

Left In: -1631.576+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 573.817+/-0.000  $\chi^2/\text{NDF}$ : 6295725952616117

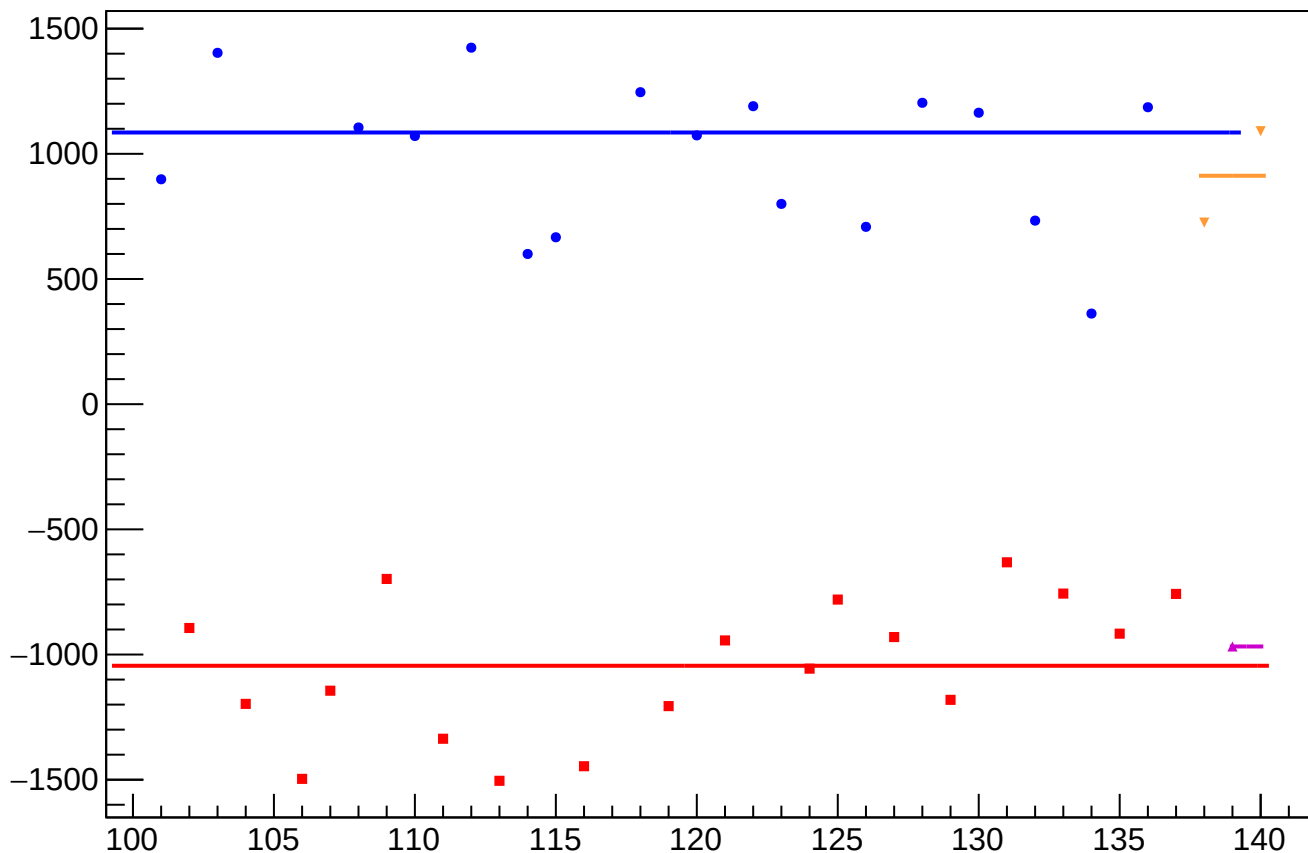
Right: -327.979+/-0.000  $\chi^2/\text{NDF}$ : 98767551538939

In: 1526.203+/-0.000  $\chi^2/\text{NDF}$ : 1014103336271648

Out: -1721.875+/-0.000  $\chi^2/\text{NDF}$ : 53236946242651

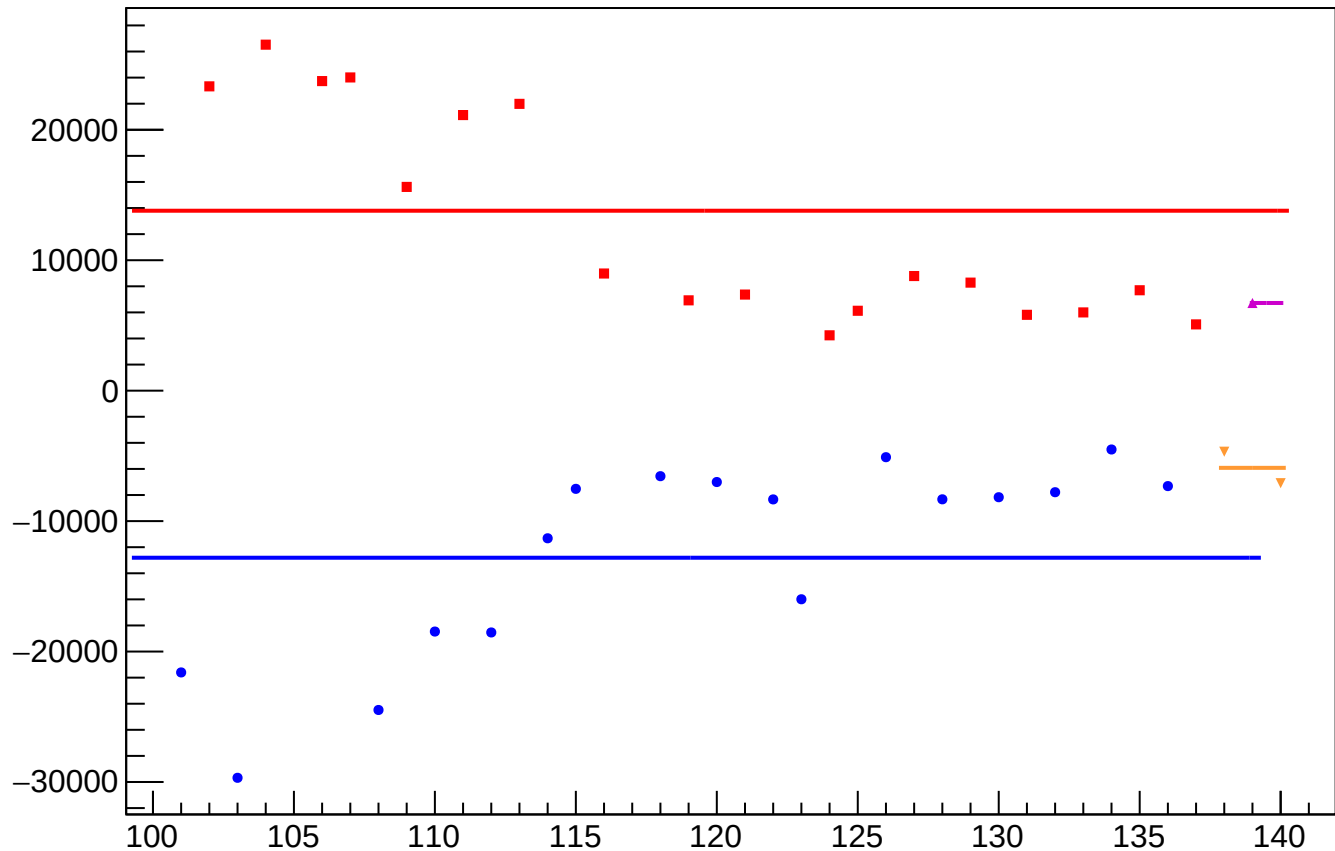
All: -196.263+/-0.000  $\chi^2/\text{NDF}$ : 10673691413

dit\_atr2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1085.186 \pm 0.000$   $\chi^2/\text{NDF}: 44603059371113642027482174752630505472.0/16$   
 Left Out:  $912.425 \pm 0.000$   $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   
 Right Out:  $-1044.852 \pm 0.000$   $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$   
 Left In:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $44.633 \pm 0.000$   $\chi^2/\text{NDF}: 1904415707412$

# dit\_sam1\_coil4\_mean vs Slug, Sign Corrected



Right In: -12807.543+/-0.000

$\chi^2/\text{NDF}$ : 43495419642384540327712467114015835815936.0/16

Left: -1668.837+/-0.000  $\chi^2/\text{NDF}$ : 88228615000232

Right: 691.705+/-0.000  $\chi^2/\text{NDF}$ : 337256561899080

Left Out: -5916.700+/-0.000

$\chi^2/\text{NDF}$ : 232867159130420378412100994601972662272.0/1

In: -10766.391+/-0.000  $\chi^2/\text{NDF}$ : 71160187245110

Right Out: 13794.471+/-0.000

$\chi^2/\text{NDF}$ : 44540762371856662603320518030739625738240.0/17

Out: 10190.143+/-0.000  $\chi^2/\text{NDF}$ : 95571185037286

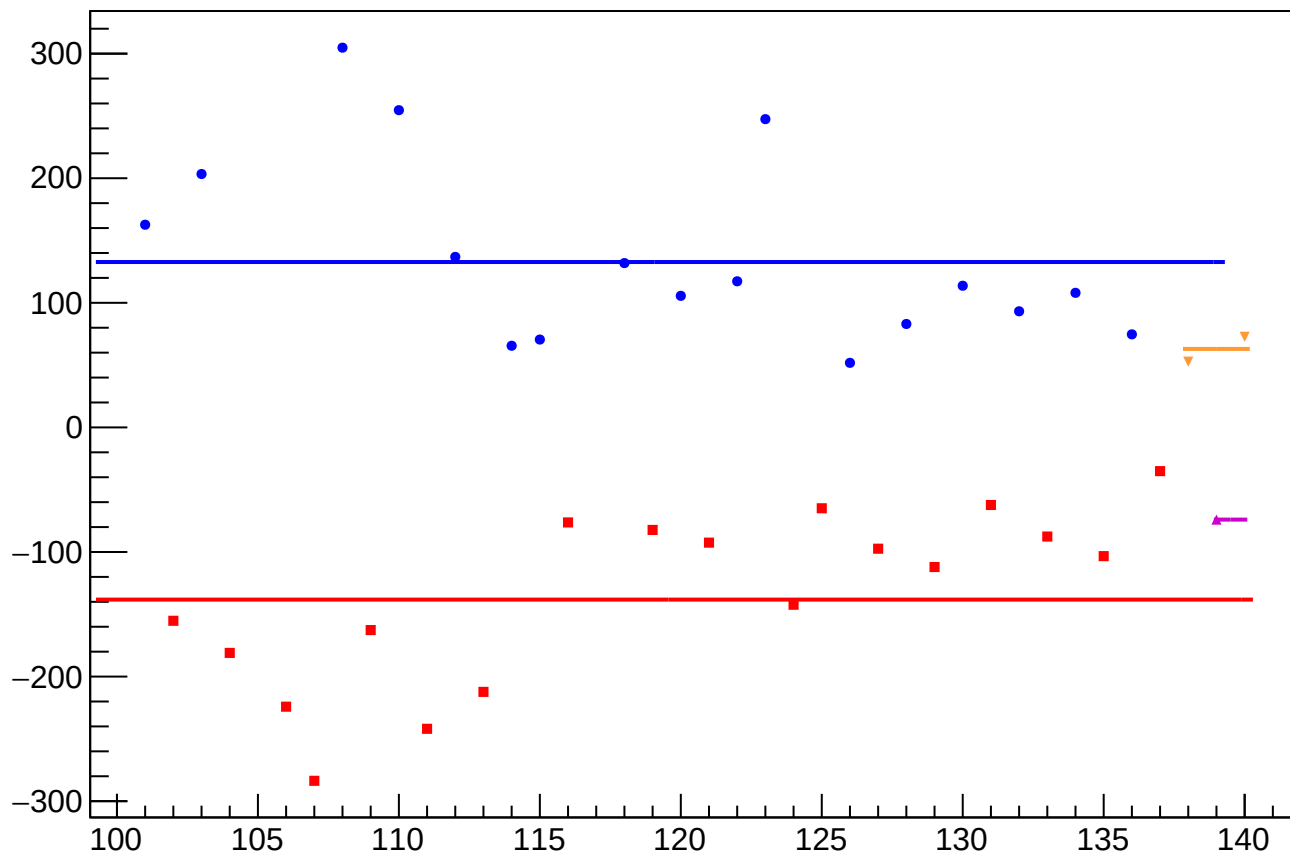
Left In: 6722.002+/-0.000

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

All: 346.923+/-0.000

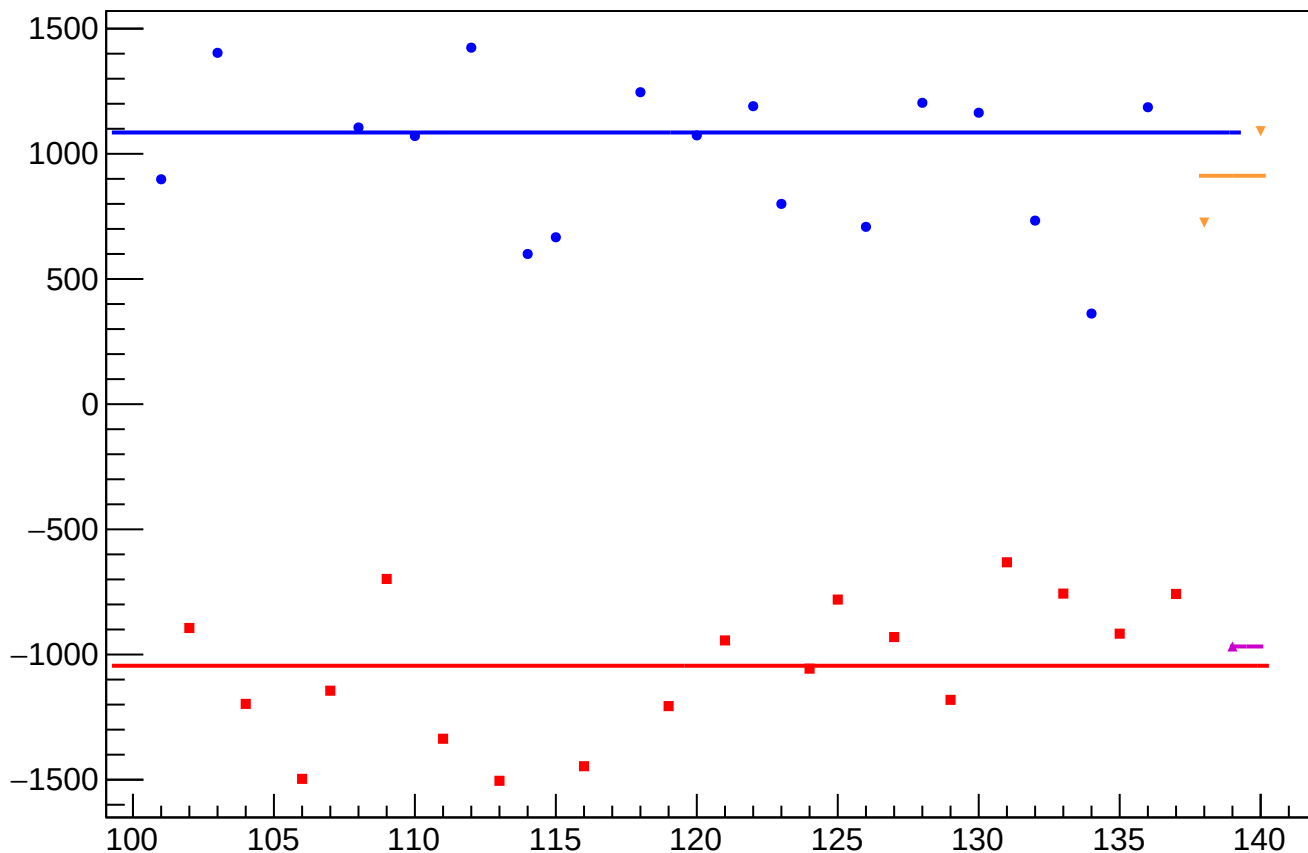
$\chi^2/\text{NDF}$ : 347226170396

dit\_sam1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In:  $132.743 \pm 0.000$   $\chi^2/\text{NDF}: 2974792347641490027349453247875121152.0/16$   
 Left Out:  $63.001 \pm 0.000$   $\chi^2/\text{NDF}: 15971797925542182725011395571613696.0/1$   
 Right Out:  $-138.207 \pm 0.000$   $\chi^2/\text{NDF}: 3073549318432471040798146297277186048.0/17$   
 Left In:  $-74.003 \pm 0.000$   $\chi^2/\text{NDF}: 16357.8/0$   
 All:  $-1.581 \pm 0.000$   $\chi^2/\text{NDF}: 3302485261129$

dit\_sam1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000

$\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16

Left Out: 912.425+/-0.000

$\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1

Right Out: -1044.852+/-0.000

$\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17

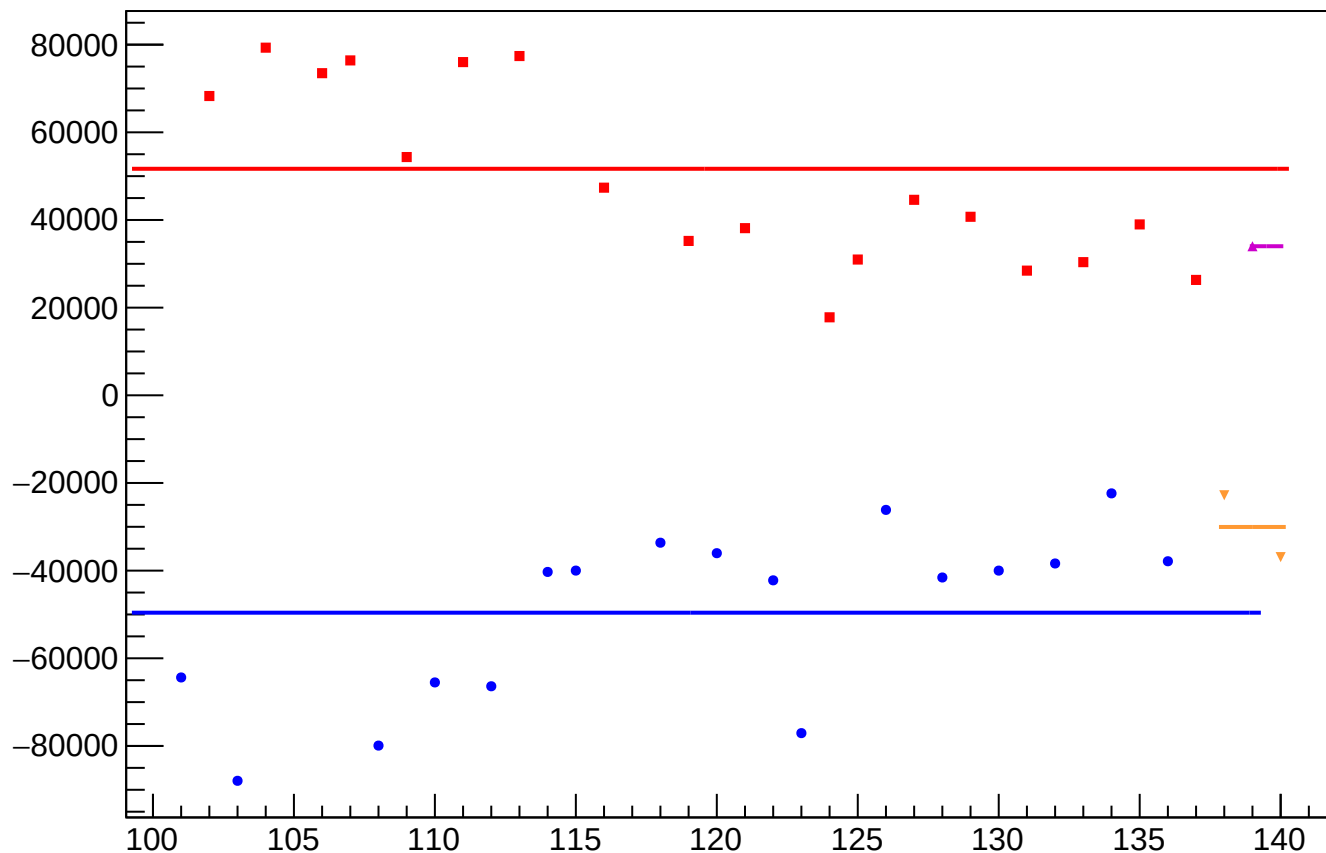
Left In: -967.815+/-0.000

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

All: 44.633+/-0.000

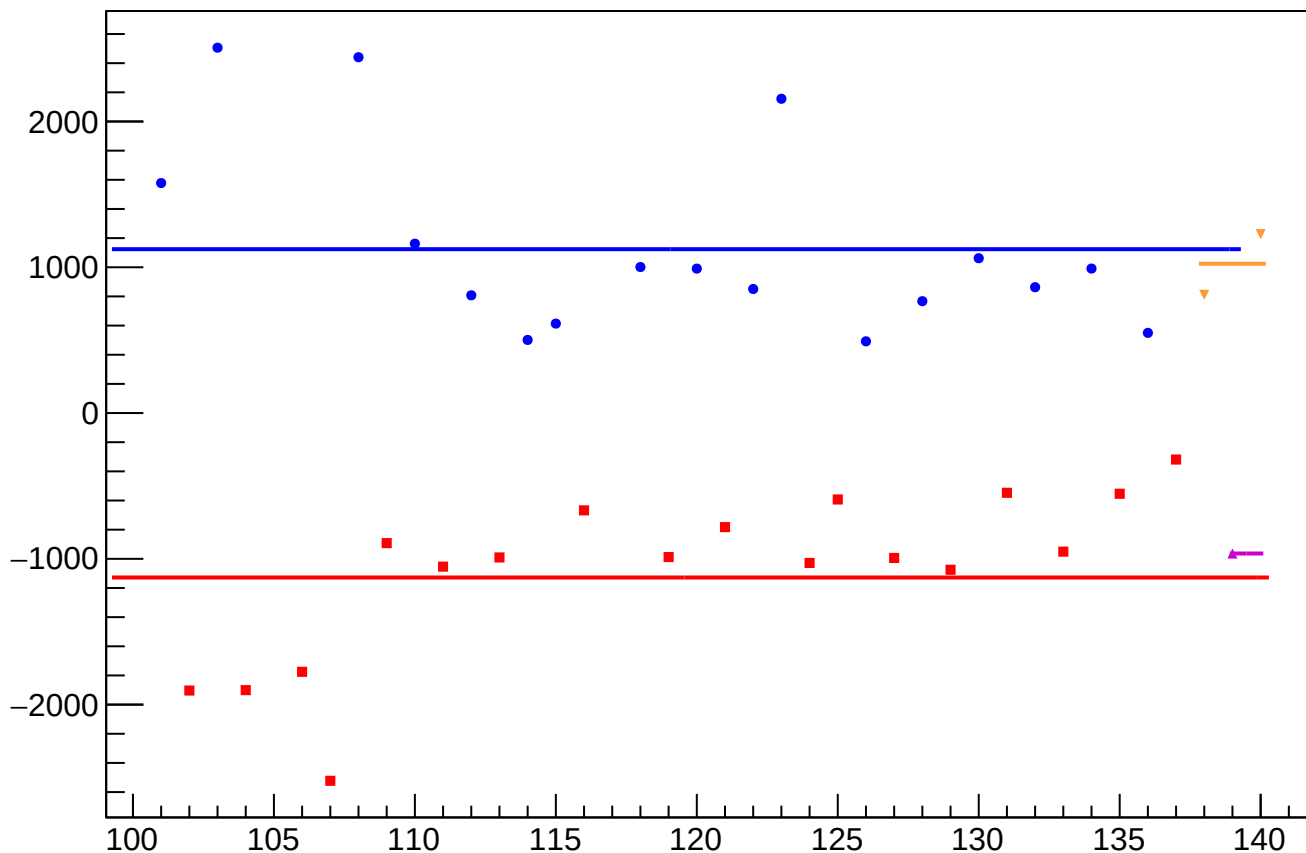
$\chi^2/\text{NDF}$ : 1904415707412

dit\_sam2\_coil4\_mean vs Slug, Sign Corrected



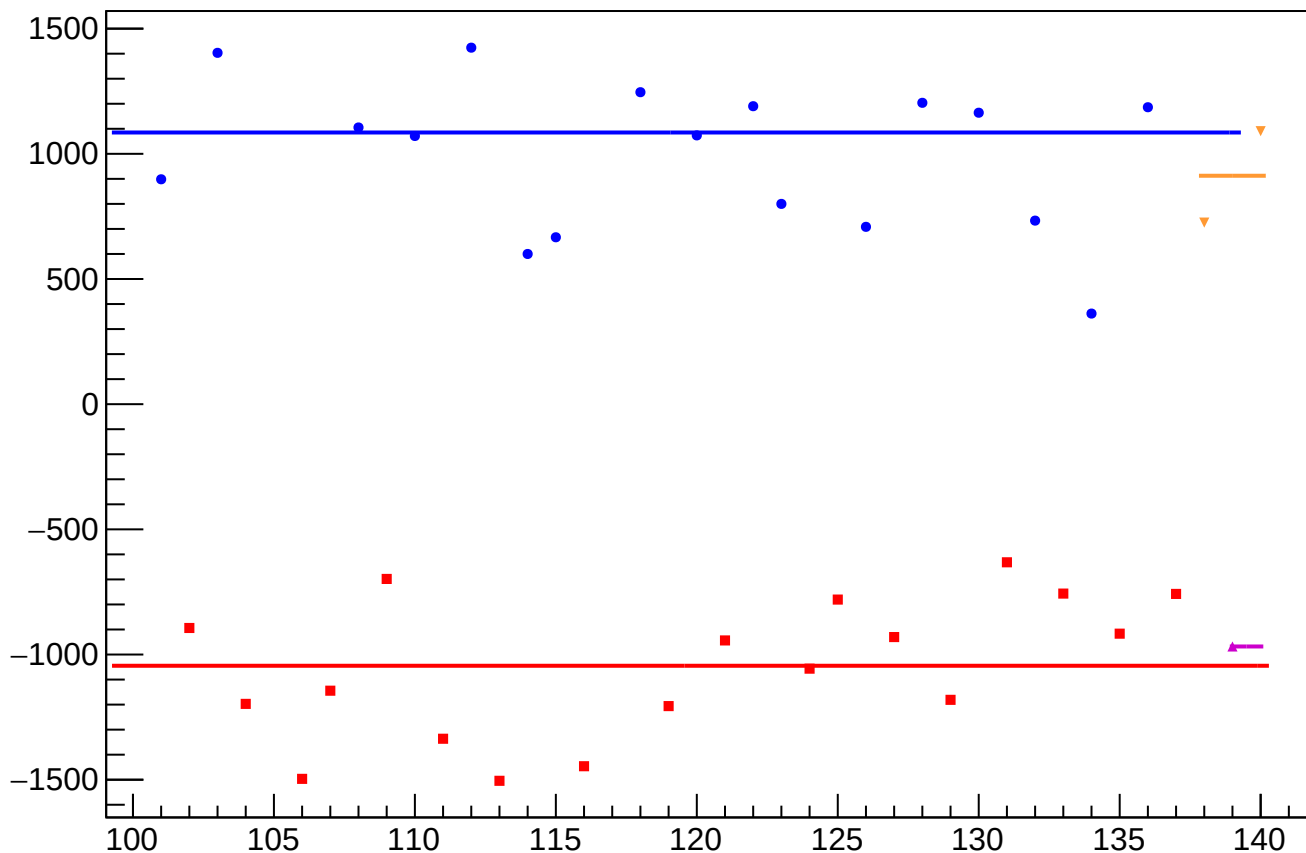
Right In: -49596.405+/-0.000  $\chi^2/\text{NDF}$ : 248313182325102448289525934605791330828288.0/16  
 Left Out: -30039.063+/-0.000  $\chi^2/\text{NDF}$ : 7966931351276522035967901601412136566784.0/1  
 Right Out: 51680.980+/-0.000  $\chi^2/\text{NDF}$ : 268094403741805330481600683125097153691648.0/17  
 Left In: 34011.430+/-0.000  $\chi^2/\text{NDF}$ : 4288104295.5/0  
 All: 291.316+/-0.000  $\chi^2/\text{NDF}$ : 437912271369

dit\_sam2\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 1124.063 +/- 0.000  $\chi^2/\text{NDF}$ : 267842110554403806997651522470490931200.0/16  
 Left Out: 1024.368 +/- 0.000  $\chi^2/\text{NDF}$ : 6918342981311527465367329339441414144.0/1  
 Right Out: -1128.051 +/- 0.000  $\chi^2/\text{NDF}$ : 216680110329654752465971394746324615168.0/17  
 Left In: -963.454 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 36.001 +/- 0.000  $\chi^2/\text{NDF}$ : 2519099730907

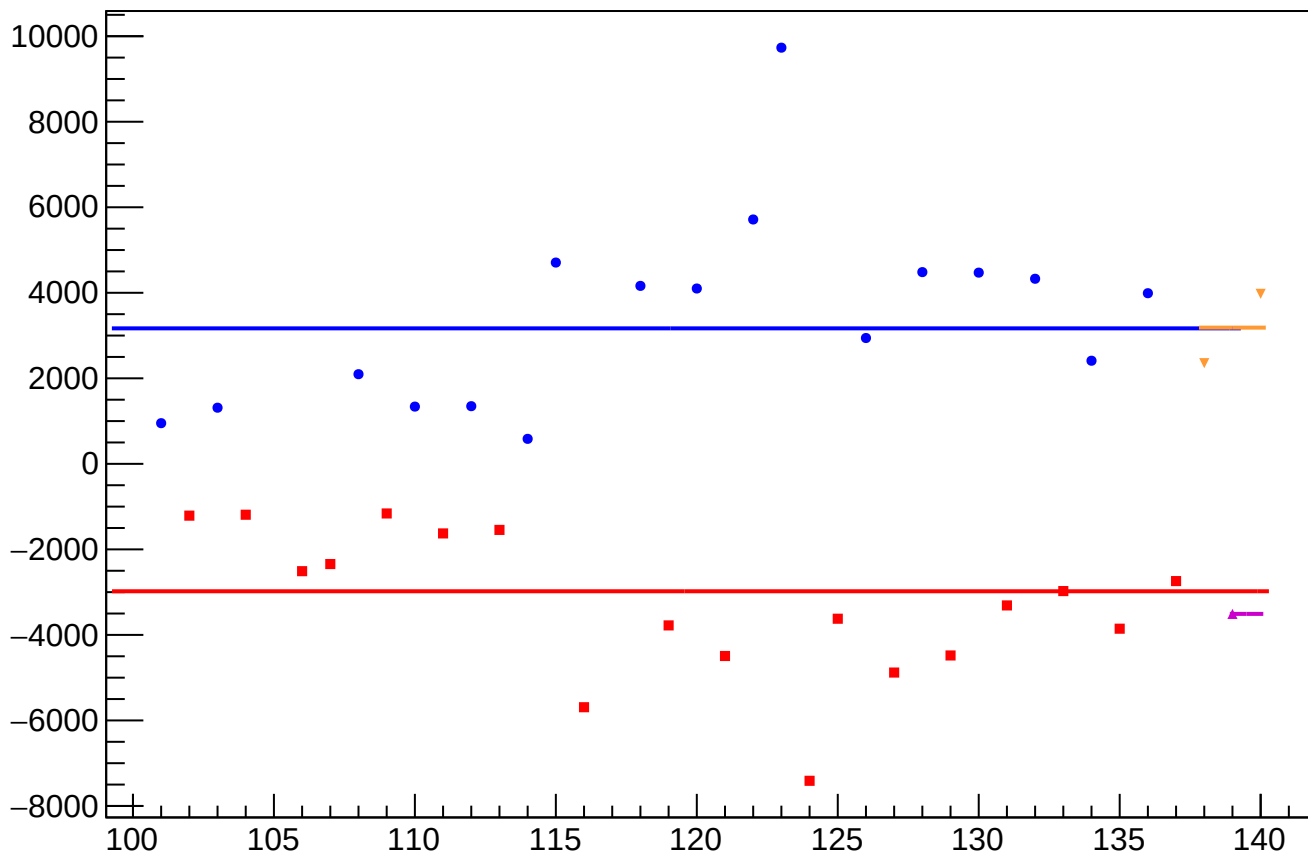
dit\_sam2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1085.186 \pm 0.000$   $\chi^2/\text{NDF}: 44603059371113642027482174752630505472.0/16$   
 Left Out:  $912.425 \pm 0.000$   $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   
 Right Out:  $-1044.852 \pm 0.000$   $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$   
 Left In:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $44.633 \pm 0.000$   $\chi^2/\text{NDF}: 1904415707412$



# dit\_sam3\_coil4\_mean vs Slug, Sign Corrected



Right In: 3168.399+/-0.000

$\chi^2/\text{NDF}$ : 1758554525431486031573031760874625302528.0/16

Left: 935.514+/-0.000  $\chi^2/\text{NDF}$ : 2515045442743634

Right: 48.632+/-0.000  $\chi^2/\text{NDF}$ : 1667438135452025

Left Out: 3185.462+/-0.000

$\chi^2/\text{NDF}$ : 105155359641111004373262090029068451840.0/1

In: 2470.521+/-0.000  $\chi^2/\text{NDF}$ : 4992518833396327

Right Out: -2979.505+/-0.000

$\chi^2/\text{NDF}$ : 1604891244832822830292138533265256480768.0/17

Out: -1852.196+/-0.000  $\chi^2/\text{NDF}$ : 66791665065436

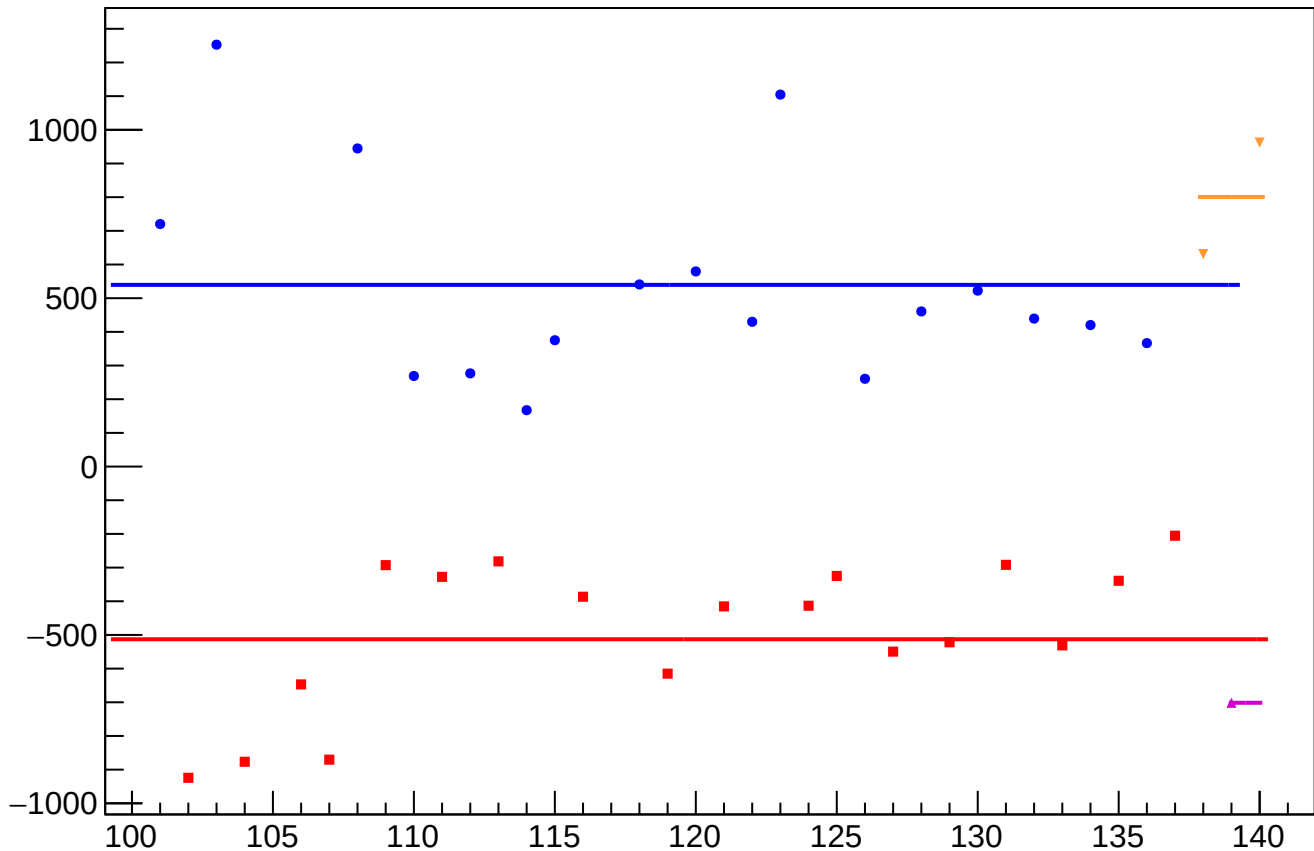
Left In: -3508.829+/-0.000

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

All: 178.171+/-0.000

$\chi^2/\text{NDF}$ : 193513000595

dit\_sam3\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 539.553+/-0.000

$\chi^2/\text{NDF}$ : 54885482787684067638945528690813960192.0/16

Left Out: 800.690+/-0.000

$\chi^2/\text{NDF}$ : 4382864615158460940332998137210732544.0/1

Right Out: -512.868+/-0.000

$\chi^2/\text{NDF}$ : 36013592539821220444279901122721742848.0/17

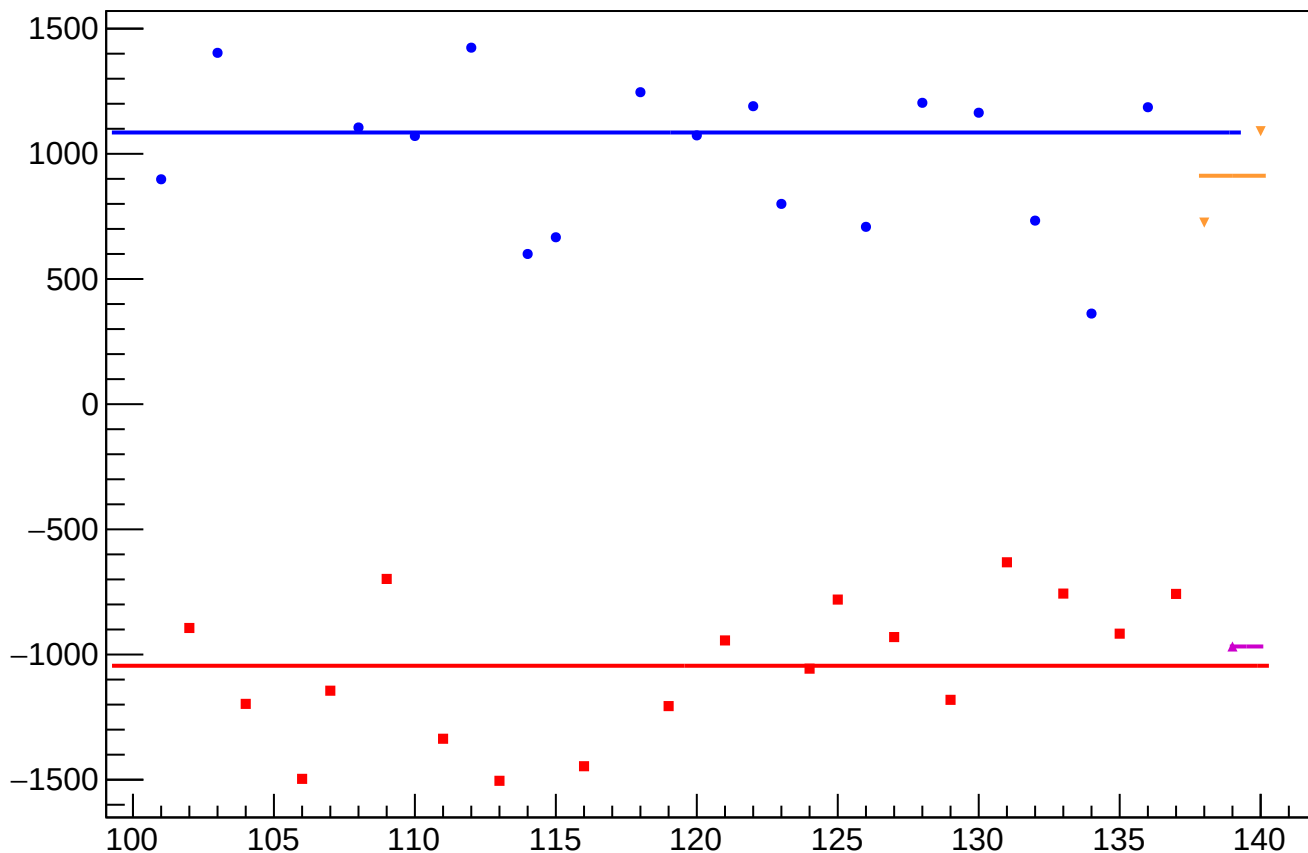
Left In: -701.419+/-0.000

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

All: 47.906+/-0.000

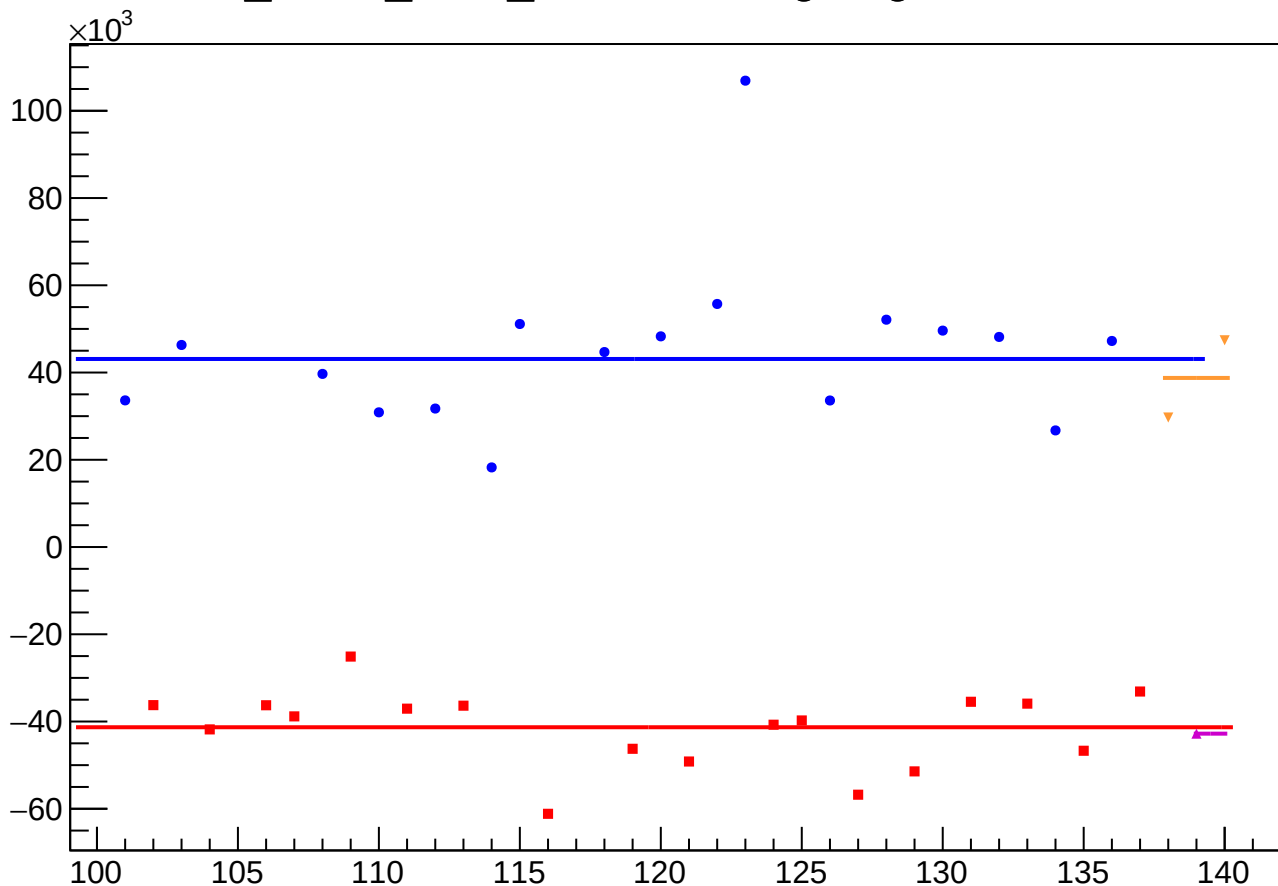
$\chi^2/\text{NDF}$ : 6240276321707

dit\_sam3\_coil4\_Ndata\_mean vs Slug, Sign Corrected



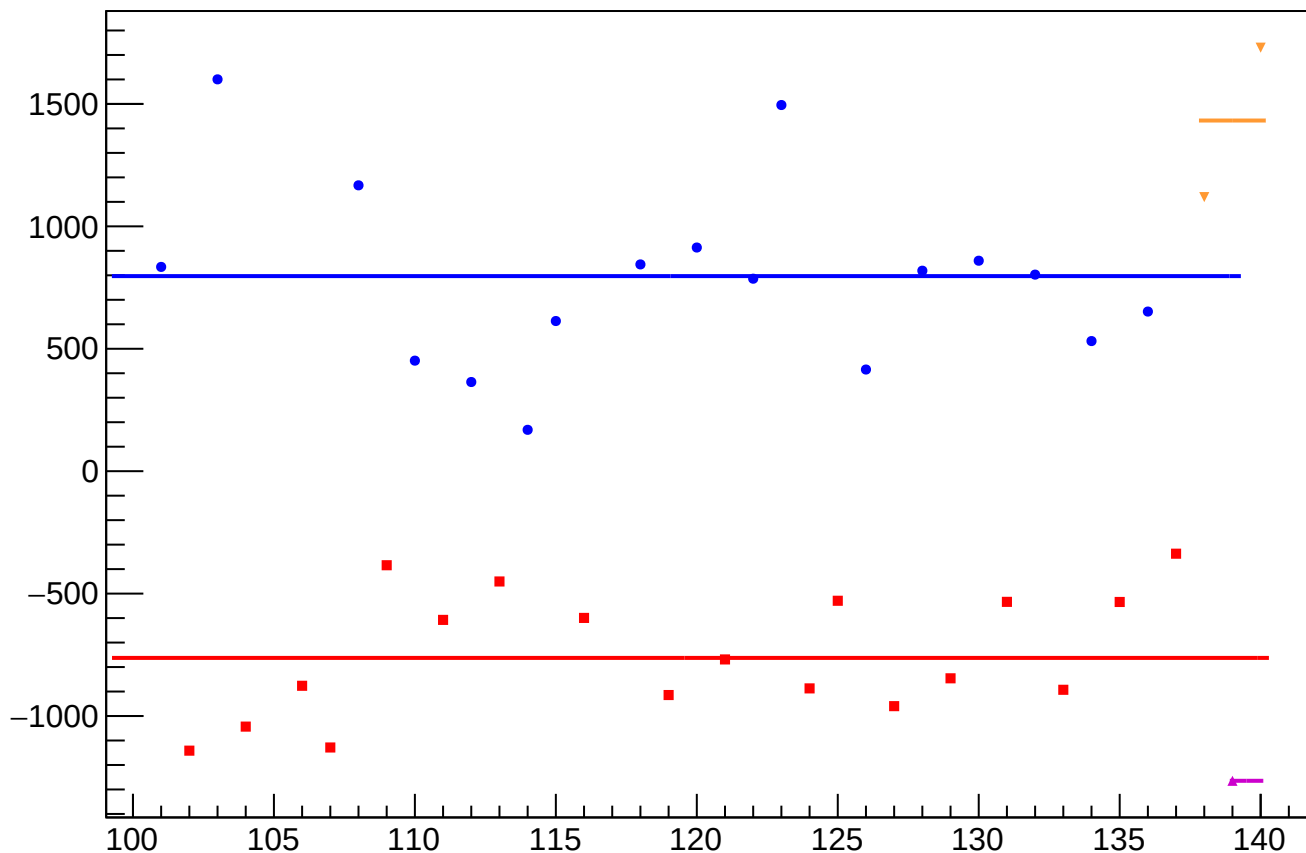
Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

dit\_sam4\_coil4\_mean vs Slug, Sign Corrected



Right In: 43108.031+/-0.000  $\chi^2/\text{NDF}$ : 68611682581967867390827070514847106990080.0/16  
 Left Out: 38761.781+/-0.000  $\chi^2/\text{NDF}$ : 12528170866014648316704256123331613294592.0/1  
 Right Out: -41313.091+/-0.000  $\chi^2/\text{NDF}$ : 51625009130500845485657820618169448923136.0/17  
 Left In: -42782.671+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 1887.637+/-0.000  $\chi^2/\text{NDF}$ : 30255440793

dit\_sam4\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 796.788+/-0.000

$\chi^2/\text{NDF}$ : 74155375401966789010322999397605965824.0/16

Left Out: 1432.231+/-0.000

$\chi^2/\text{NDF}$ : 14893567696709798331834763105752055808.0/1

Right Out: -762.642+/-0.000

$\chi^2/\text{NDF}$ : 44999366783777016136570300173215858688.0/17

Left In: -1264.589+/-0.000

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

In: 581.340+/-0.000

$\chi^2/\text{NDF}$ : 38237292188761159

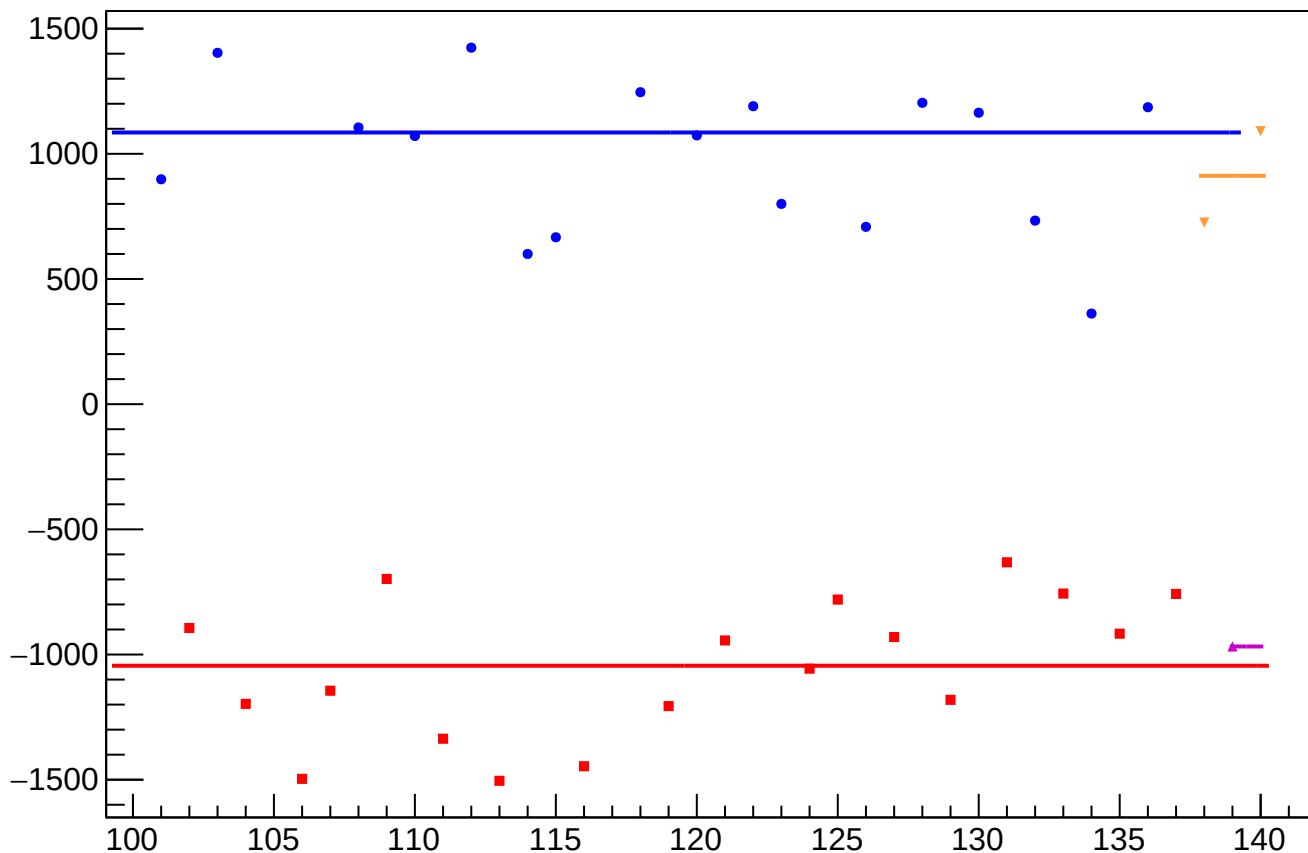
Out: -361.293+/-0.000

$\chi^2/\text{NDF}$ : 689742309791457

All: 81.459+/-0.000

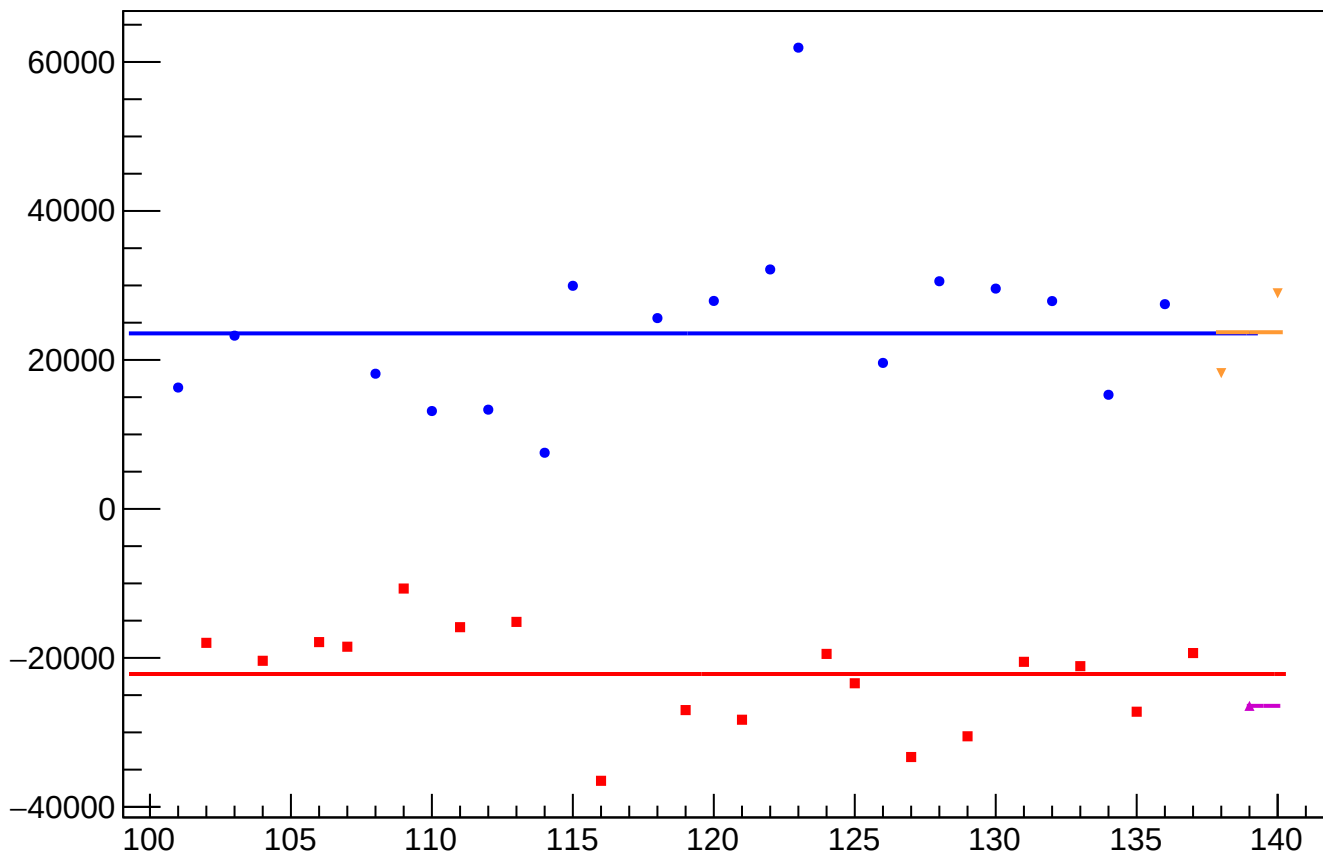
$\chi^2/\text{NDF}$ : 1437299357762

dit\_sam4\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

dit\_sam5\_coil4\_mean vs Slug, Sign Corrected



Right In: 23563.217+/-0.000

$\chi^2/\text{NDF}$ : 35385807137271018817625418232540839280640.0/16

Left Out: 23719.940+/-0.000

$\chi^2/\text{NDF}$ : 4591345674053099998610114216037200166912.0/1

Right Out: -22162.506+/-0.000

$\chi^2/\text{NDF}$ : 30926817479017578857864317291139006726144.0/17

Left In: -26438.000+/-0.000

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

Left: 6861.877+/-0.000

$\chi^2/\text{NDF}$ : 139881855844968

Right: 359.603+/-0.000

$\chi^2/\text{NDF}$ : 802648005424465

In: 18337.283+/-0.000

$\chi^2/\text{NDF}$ : 216730115756077

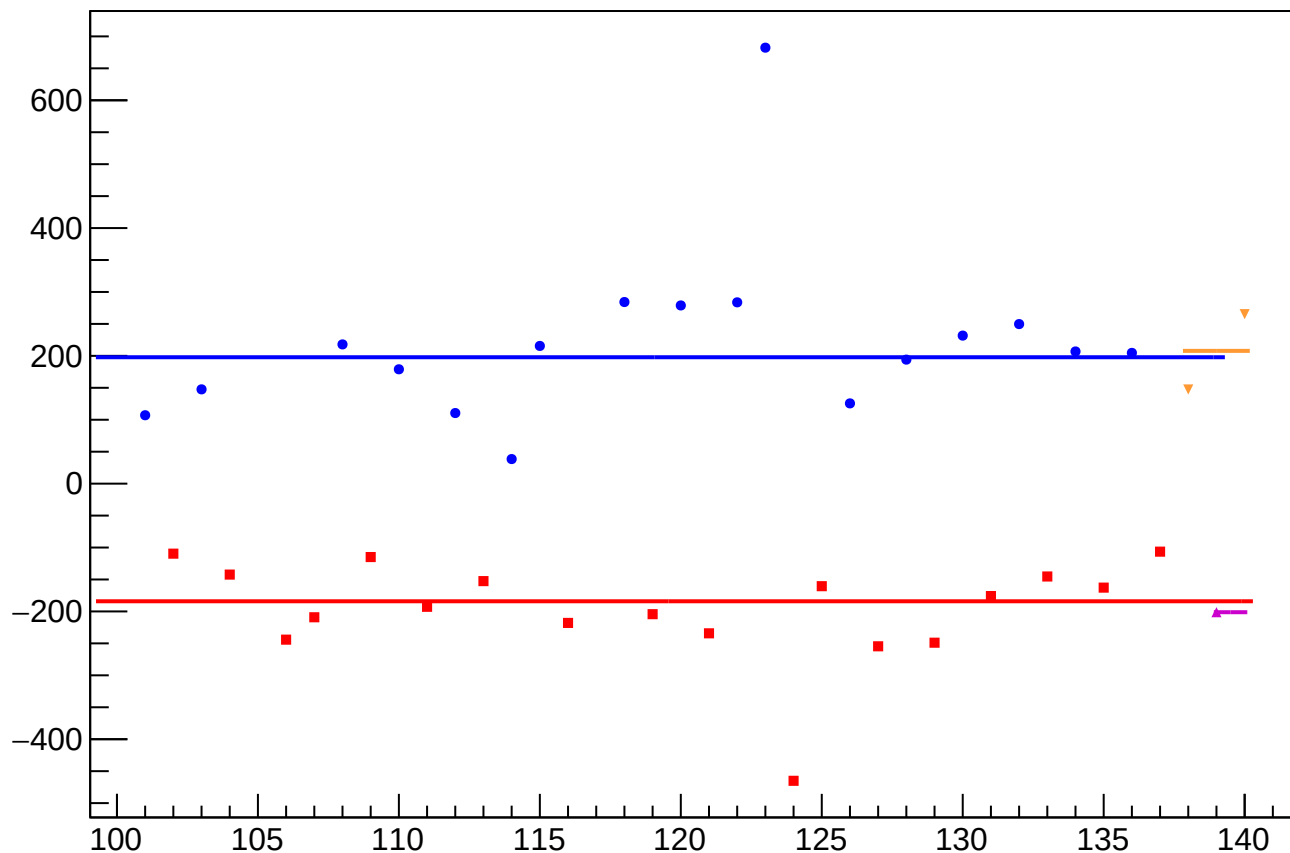
Out: -13772.573+/-0.000

$\chi^2/\text{NDF}$ : 3107578670655

All: 1309.329+/-0.000

$\chi^2/\text{NDF}$ : 95123097003

dit\_sam5\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 197.841 $\pm$ 0.000

$\chi^2/NDF$ : 3601849103427594359827693165900464128.0/16

Left Out: 207.805 $\pm$ 0.000

$\chi^2/NDF$ : 555386061848543432346670068679049216.0/1

Right Out: -184.108 $\pm$ 0.000

$\chi^2/NDF$ : 2706165724913072523706132651898306560.0/17

Left In: -201.229 $\pm$ 0.000

$\chi^2/NDF$ : 65431.3/0

Left: 70.329 $\pm$ 0.000

$\chi^2/NDF$ : 95526010390589025

Right: 4.020 $\pm$ 0.000

$\chi^2/NDF$ : 57684682342329380

In: 156.132 $\pm$ 0.000

$\chi^2/NDF$ : 1515343938331374

Out: -112.444 $\pm$ 0.000

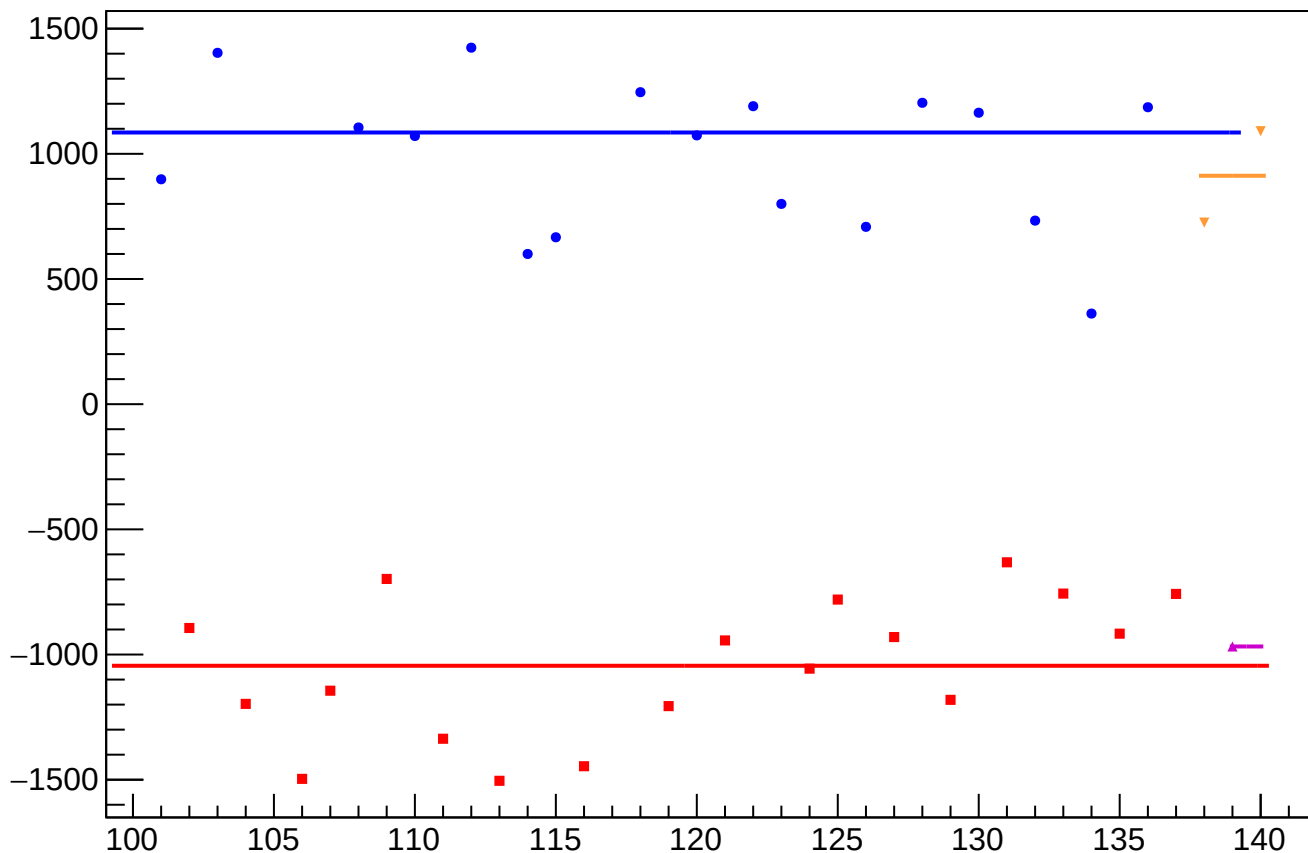
$\chi^2/NDF$ : 233431598114725

All: 13.705 $\pm$ 0.000

$\chi^2/NDF$ : 6814215499981



dit\_sam5\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000

$\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16

Left Out: 912.425+/-0.000

$\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1

Right Out: -1044.852+/-0.000

$\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17

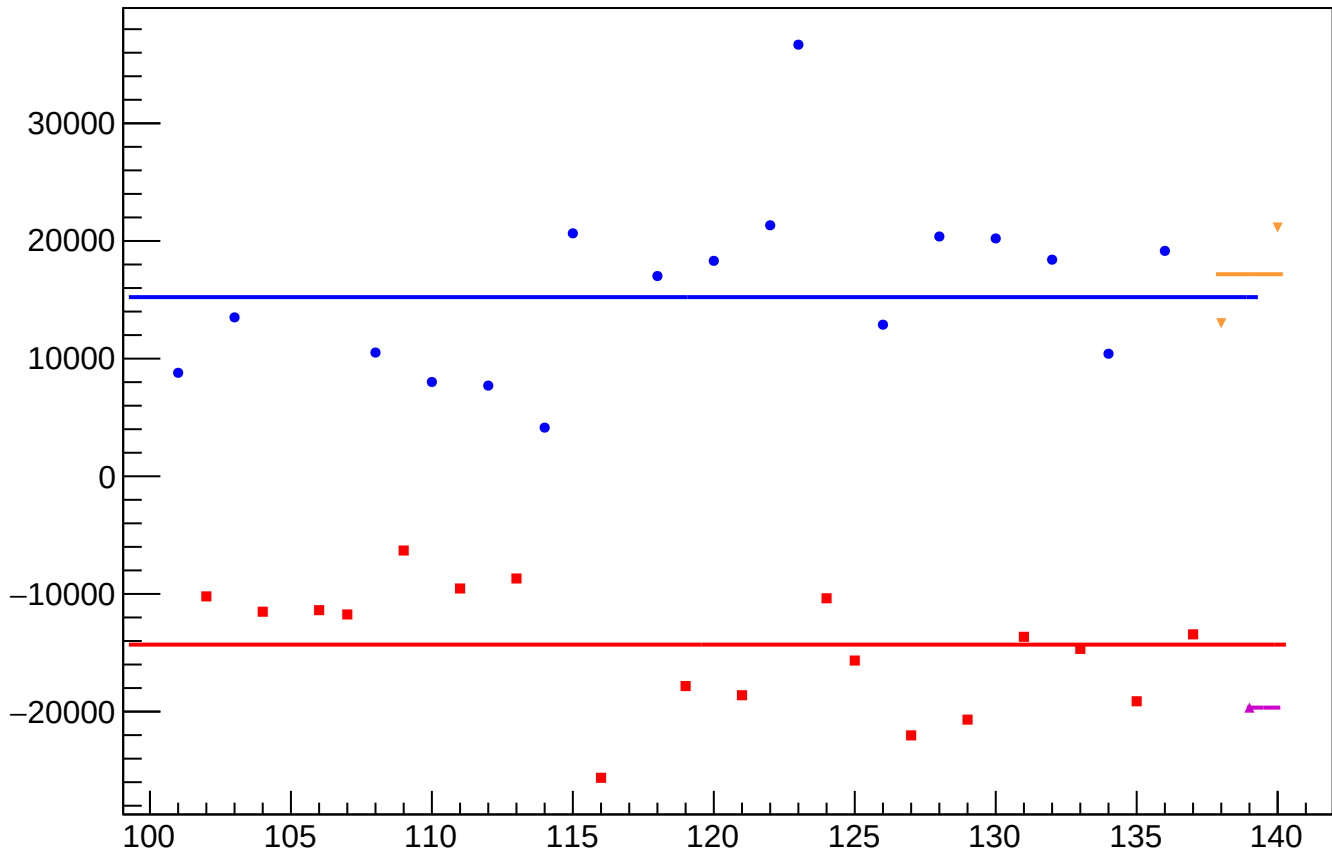
Left In: -967.815+/-0.000

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

All: 44.633+/-0.000

$\chi^2/\text{NDF}$ : 1904415707412

dit\_sam6\_coil4\_mean vs Slug, Sign Corrected



Right In: 15226.152+/-0.000

Left: 4794.858+/-0.000  $\chi^2/\text{NDF}$ : 19033981883616318675707973818231845552128.0/16

Left Out: 17175.304+/-0.000

Right: 238.671+/-0.000  $\chi^2/\text{NDF}$ : 3442209459916346886188014401987332888592384.0/1

Right Out: -14308.618+/-0.000

In: 11579.950+/-0.000  $\chi^2/\text{NDF}$ : 1073129923061092143727991108175714996656799744.0/17

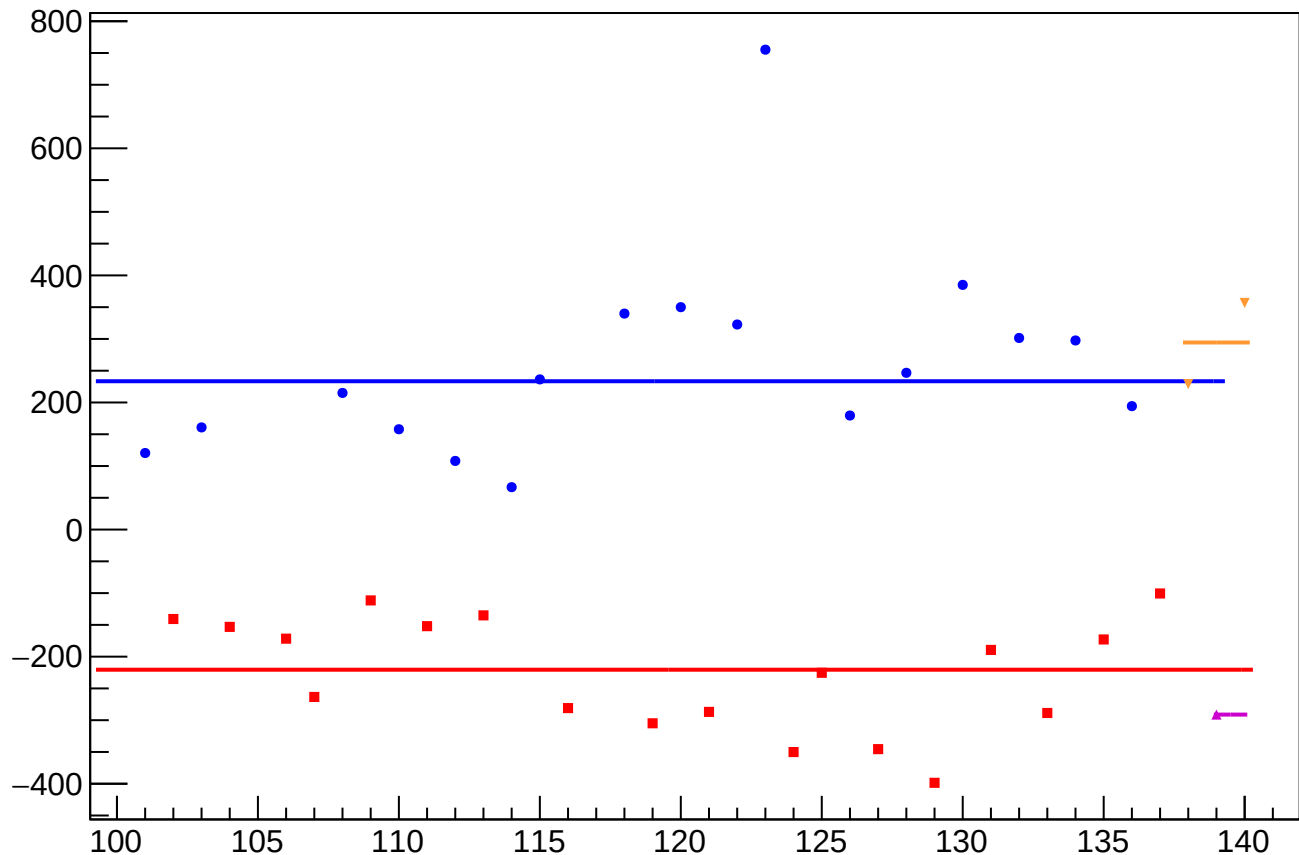
Left In: -19660.343+/-0.000

Out: -8551.558+/-0.000  $\chi^2/\text{NDF}$ : 15022823611285

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

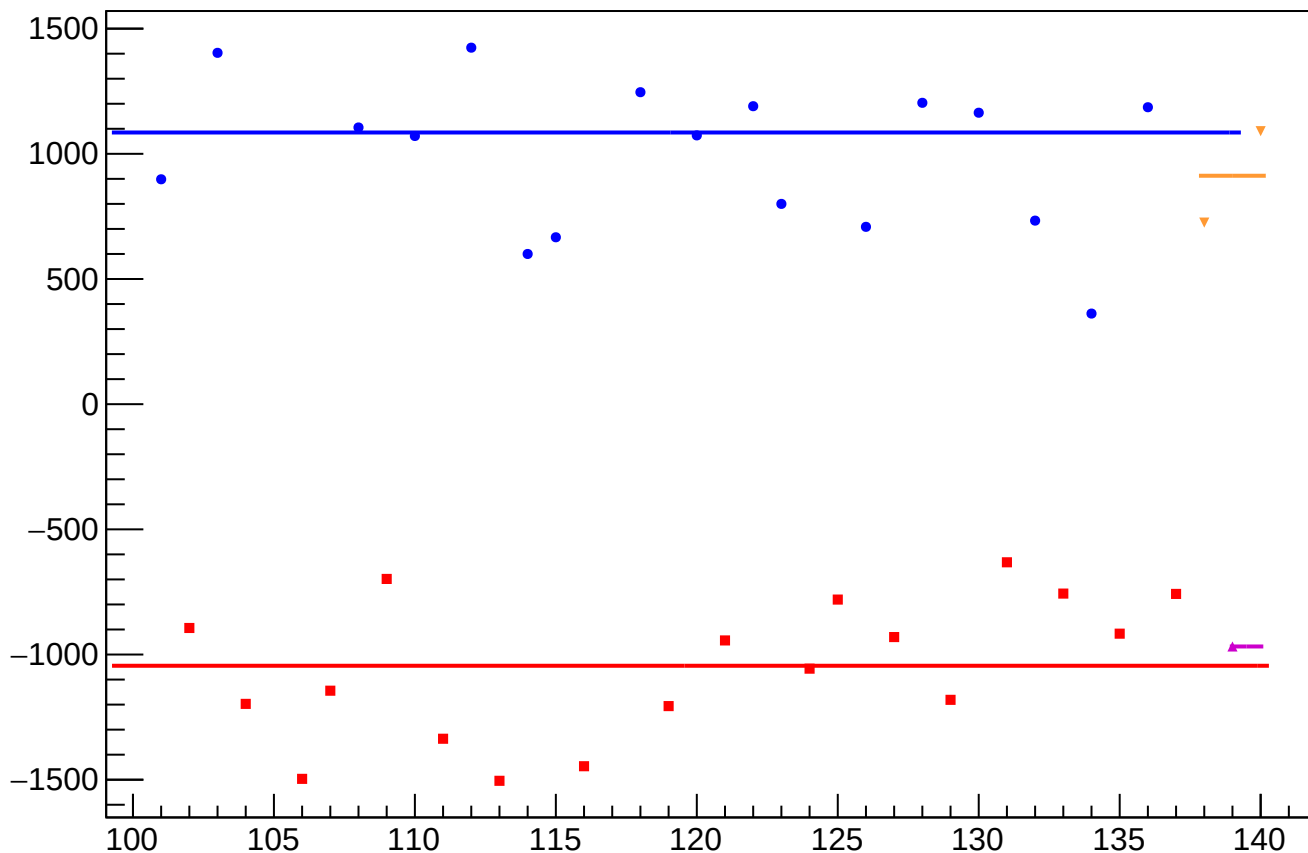
All: 904.150+/-0.000  $\chi^2/\text{NDF}$ : 424104192198

dit\_sam6\_coil4\_err\_mean vs Slug, Sign Corrected



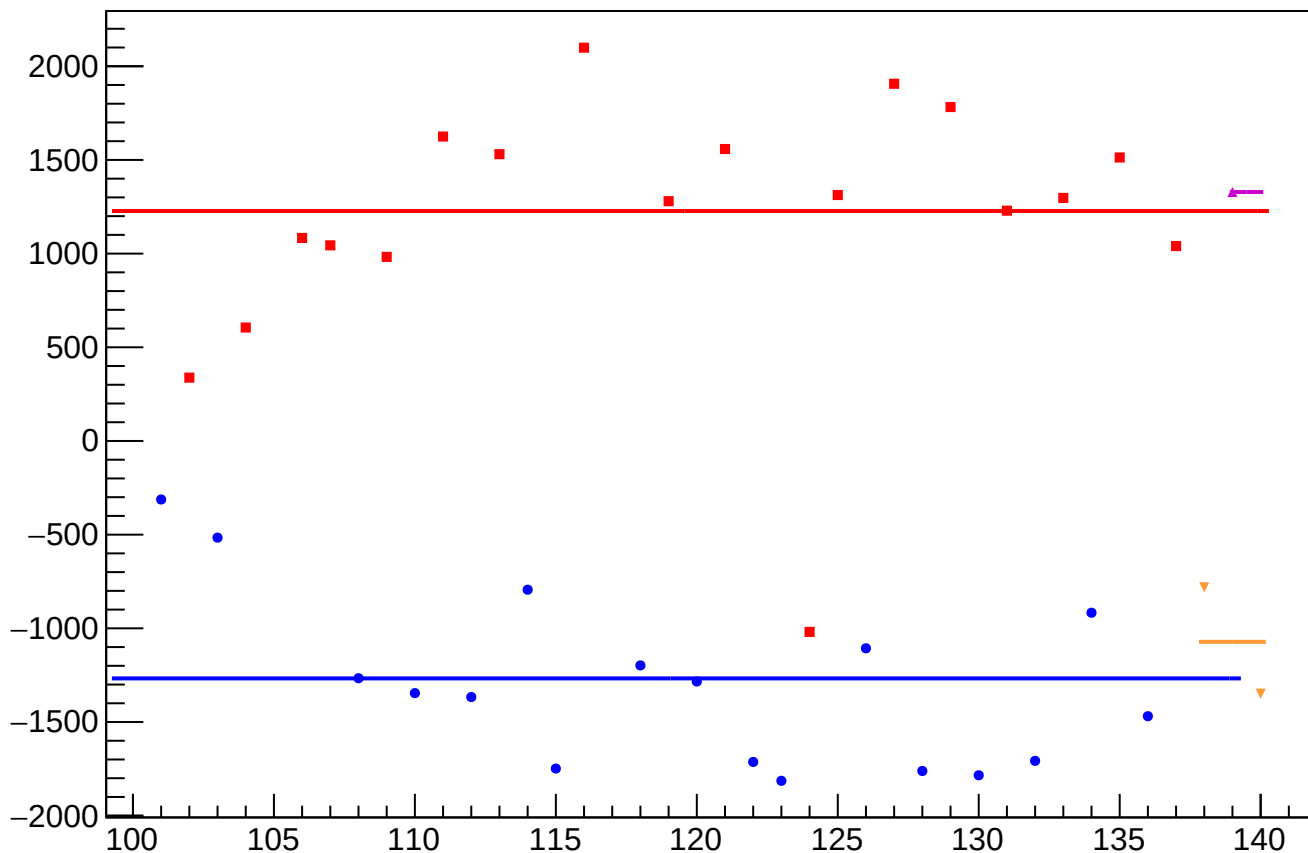
|                             |                                                                  |                       |                                         |
|-----------------------------|------------------------------------------------------------------|-----------------------|-----------------------------------------|
| Right In: 233.427+/-0.000   | $\chi^2/\text{NDF}$ : 6632421375389201944932770217893822464.0/16 | Left: 97.599+/-0.000  | $\chi^2/\text{NDF}$ : 19093409583355429 |
| Left Out: 294.417+/-0.000   | $\chi^2/\text{NDF}$ : 652379176572813411703595178435543040.0/1   | Right: 3.051+/-0.000  | $\chi^2/\text{NDF}$ : 84599787542179359 |
| Right Out: -220.559+/-0.000 | $\chi^2/\text{NDF}$ : 5383695019108554854360648047063465984.0/17 | In: 178.597+/-0.000   | $\chi^2/\text{NDF}$ : 2659470521438209  |
| Left In: -291.179+/-0.000   | $\chi^2/\text{NDF}$ : 0.0/0                                      | Out: -126.391+/-0.000 | $\chi^2/\text{NDF}$ : 407090976342783   |
|                             |                                                                  | All: 16.861+/-0.000   | $\chi^2/\text{NDF}$ : 1055328786700     |

dit\_sam6\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In:  $1085.186 \pm 0.000$   $\chi^2/\text{NDF} = 44603059371113642027482174752630505472.0/16$   
 Left Out:  $912.425 \pm 0.000$   $\chi^2/\text{NDF} = 5330251110006219551936881140879589376.0/1$   
 Right Out:  $-1044.852 \pm 0.000$   $\chi^2/\text{NDF} = 50845956393664427375382832394046275584.0/17$   
 Left In:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF} = 0.0/0$   
 All:  $44.633 \pm 0.000$   $\chi^2/\text{NDF} = 1904415707412$

# dit\_sam7\_coil4\_mean vs Slug, Sign Corrected



Right In: -1267.268+/-0.000

Left Out: -1071.968+/-0.000

Right Out: 1227.490+/-0.000

Left In: 1328.720+/-0.000

$\chi^2/\text{NDF}$ : 145198686124385842675248081831068696576.0/16

$\chi^2/\text{NDF}$ : 12885187801639470788004742831443804160.0/1

$\chi^2/\text{NDF}$ : 214319050187910672698323609340044378112.0/17

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

Left: -265.098+/-0.000  $\chi^2/\text{NDF}$ : 322812209527186

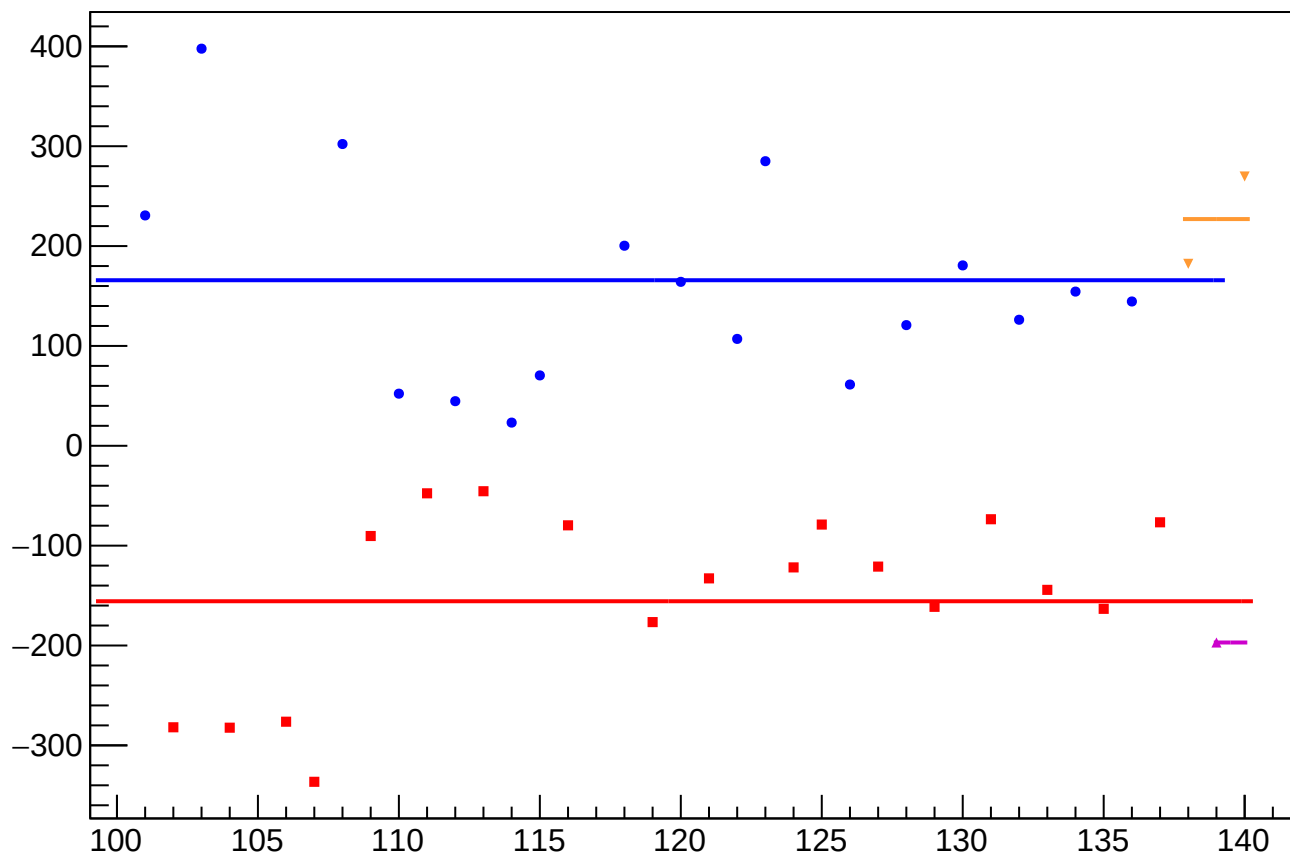
Right: -1.298+/-0.000  $\chi^2/\text{NDF}$ : 2551370593421750

In: -995.946+/-0.000  $\chi^2/\text{NDF}$ : 6340180084863460

Out: 807.017+/-0.000  $\chi^2/\text{NDF}$ : 9185077506262171

All: -39.829+/-0.000  $\chi^2/\text{NDF}$ : 288850440805

# dit\_sam7\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 165.791+/-0.000  $\chi^2/\text{NDF}$ : 6599926309722586861325010177468923904.0/16

Left Out: 227.039+/-0.000  $\chi^2/\text{NDF}$ : 305727920187534303472208368558407680.0/1

Right Out: -155.674+/-0.000  $\chi^2/\text{NDF}$ : 5506170000172026486696305926028132352.0/17

Left In: -196.987+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 84.524+/-0.000  $\chi^2/\text{NDF}$ : 99745414432428384

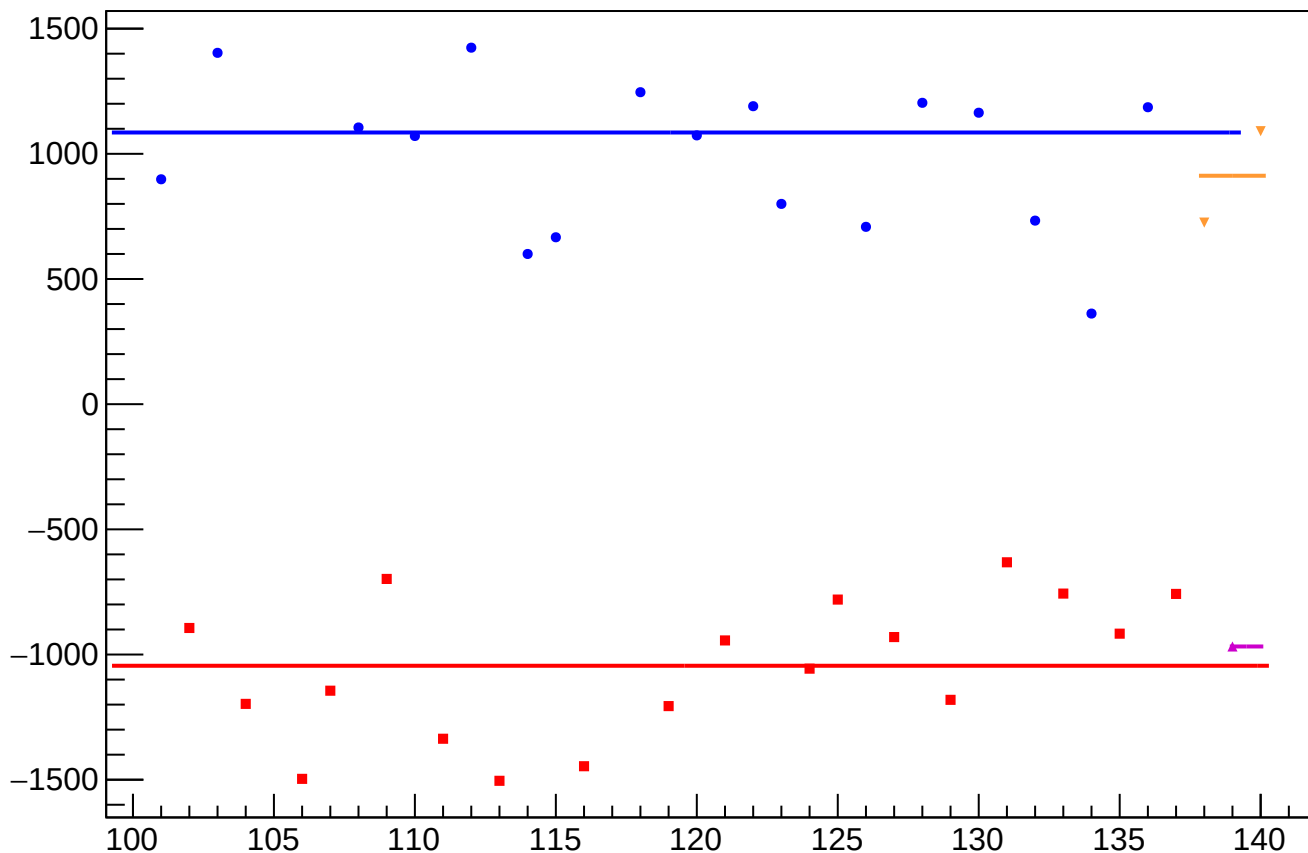
Right: 2.663+/-0.000  $\chi^2/\text{NDF}$ : 48499547621986974

In: 127.875+/-0.000  $\chi^2/\text{NDF}$ : 16146038981469698

Out: -85.692+/-0.000  $\chi^2/\text{NDF}$ : 2496168776916529

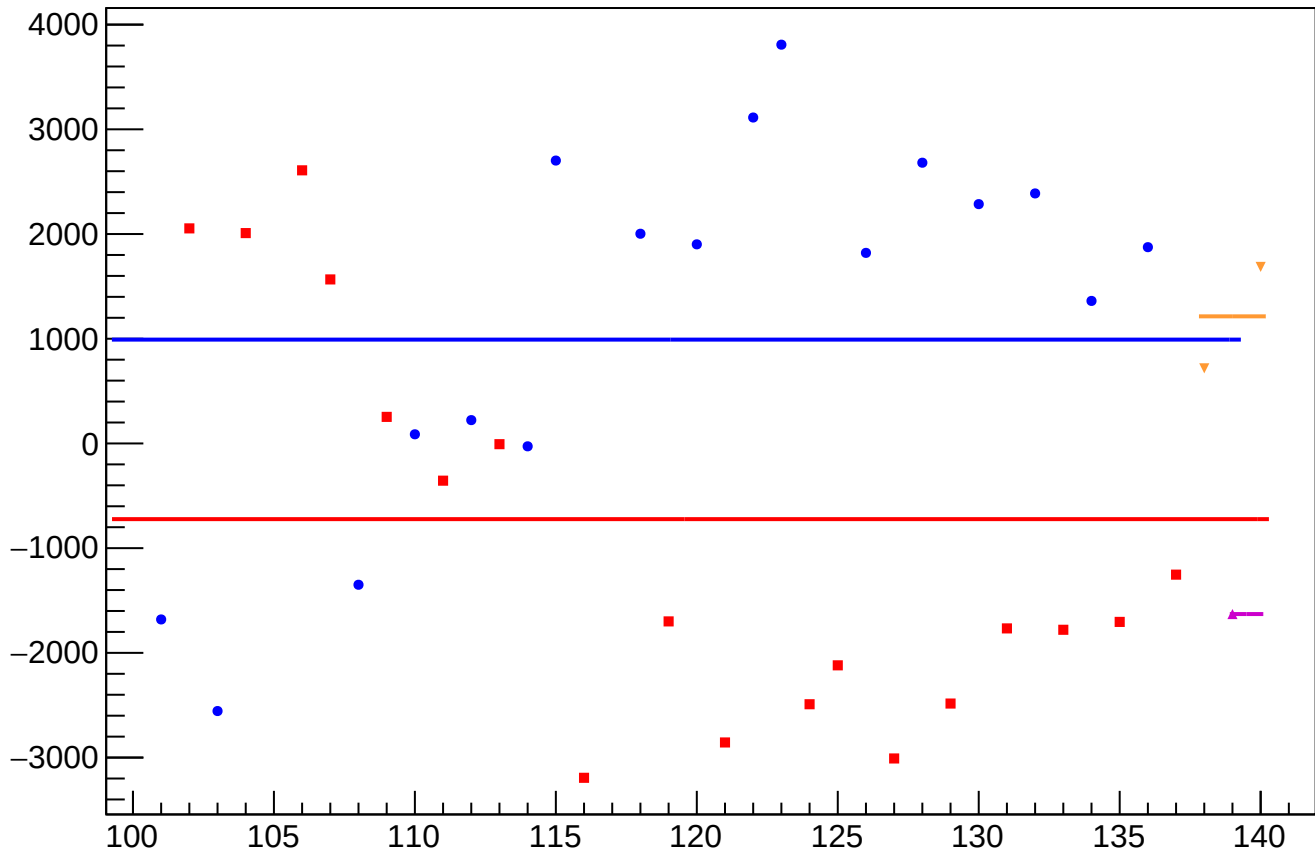
All: 14.620+/-0.000  $\chi^2/\text{NDF}$ : 5985318562028

dit\_sam7\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 1085.186+/-0.000  $\chi^2/\text{NDF}$ : 44603059371113642027482174752630505472.0/16  
 Left Out: 912.425+/-0.000  $\chi^2/\text{NDF}$ : 5330251110006219551936881140879589376.0/1  
 Right Out: -1044.852+/-0.000  $\chi^2/\text{NDF}$ : 50845956393664427375382832394046275584.0/17  
 Left In: -967.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 44.633+/-0.000  $\chi^2/\text{NDF}$ : 1904415707412

dit\_sam8\_coil4\_mean vs Slug, Sign Corrected



Right In: 991.656+/-0.000

$\chi^2/\text{NDF}$ : 2196543485135713219136059560633443549184.0/16

Left Out: 1213.816+/-0.000

$\chi^2/\text{NDF}$ : 37506283094530550169813393331609141248.0/1

Right Out: -722.834+/-0.000

$\chi^2/\text{NDF}$ : 2430230107927732709008698791969328988160.0/17

Left In: -1629.358+/-0.000

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

Left: 258.226+/-0.000

$\chi^2/\text{NDF}$ : 4722113390475409

Right: 121.634+/-0.000

$\chi^2/\text{NDF}$ : 566197373113021

In: 717.718+/-0.000

$\chi^2/\text{NDF}$ : 2694832580302724

Out: -368.704+/-0.000

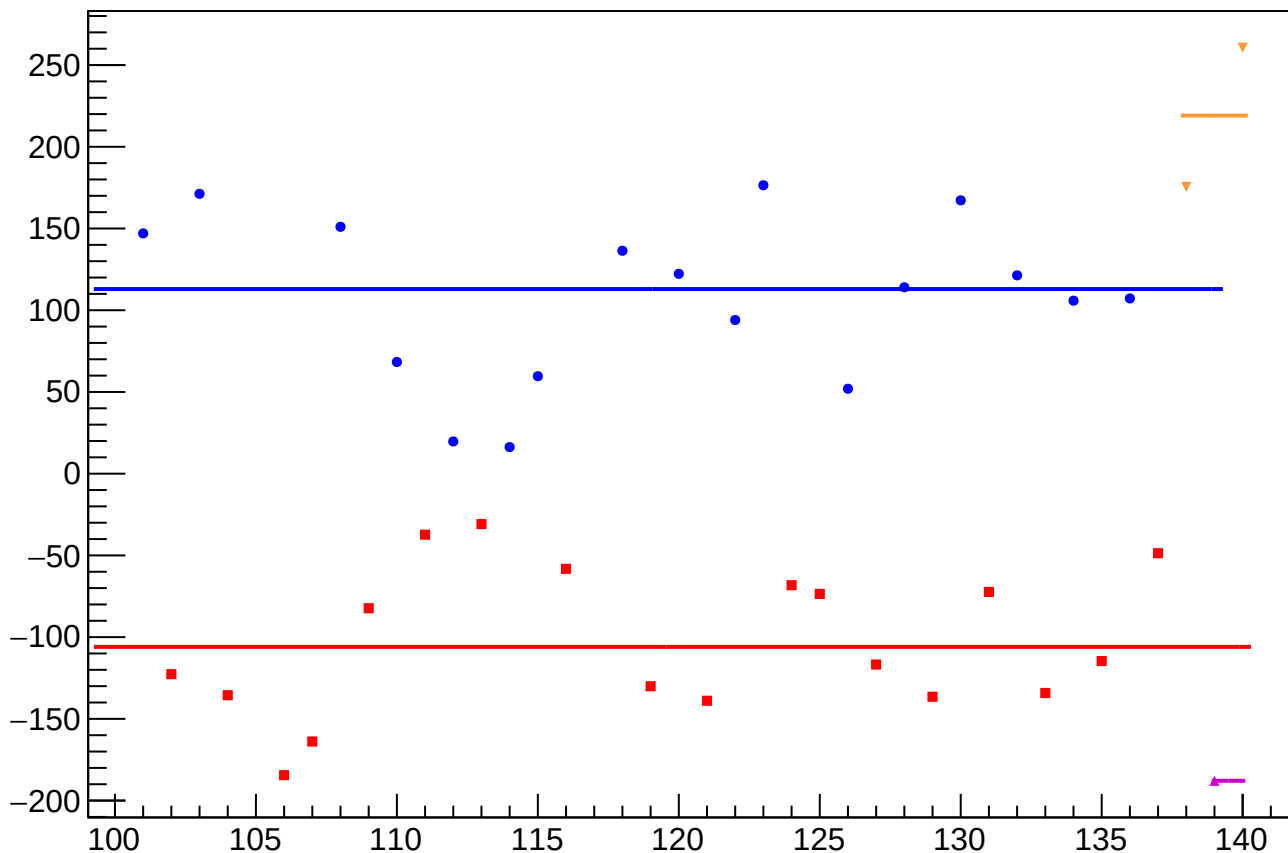
$\chi^2/\text{NDF}$ : 295810205830826

All: 141.585+/-0.000

$\chi^2/\text{NDF}$ : 613802473353



dit\_sam8\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 112.967+/-0.000

$\chi^2/\text{NDF}$ : 1352482381635393188272506664826961920.0/16

Left Out: 219.123+/-0.000

$\chi^2/\text{NDF}$ : 289913332537218853289018415988604928.0/1

Right Out: -105.949+/-0.000

$\chi^2/\text{NDF}$ : 1242528444706792757388488213889286144.0/17

Left In: -187.897+/-0.000

$\chi^2/\text{NDF}$ : 65431.3/0

Left: 82.324+/-0.000  $\chi^2/\text{NDF}$ : 91987179318407208

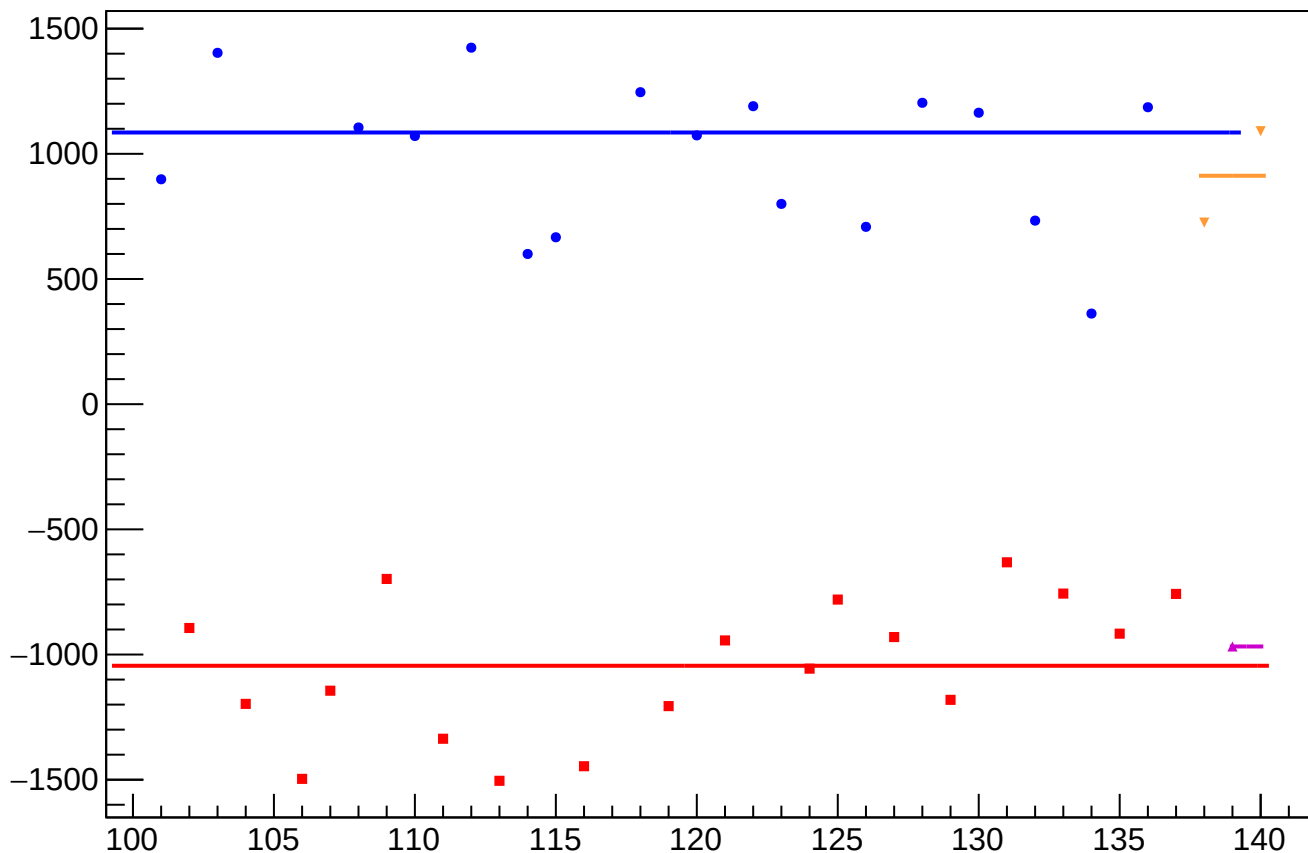
Right: 1.878+/-0.000  $\chi^2/\text{NDF}$ : 19472555799902353

In: 81.522+/-0.000  $\chi^2/\text{NDF}$ : 791822315448905928

Out: -46.507+/-0.000  $\chi^2/\text{NDF}$ : 1534825449265623

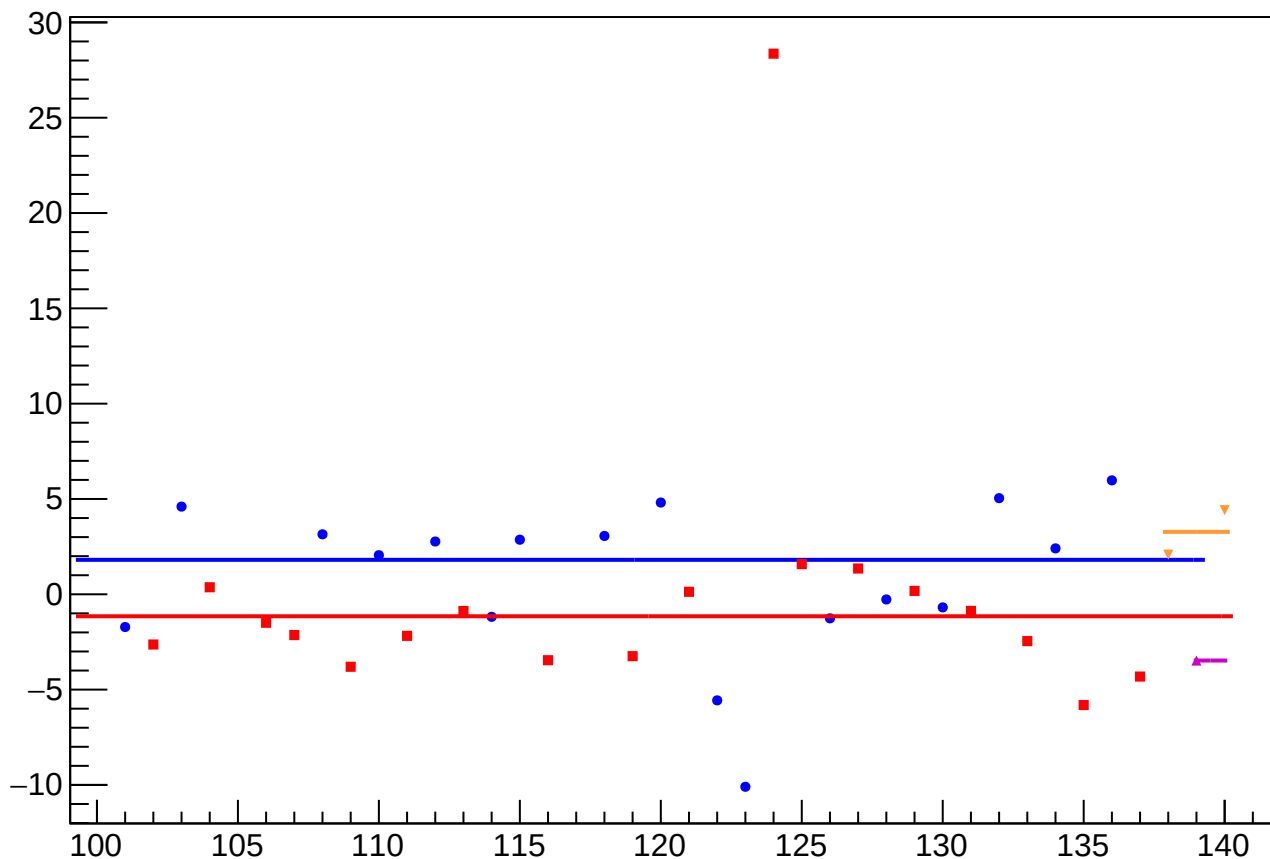
All: 13.628+/-0.000  $\chi^2/\text{NDF}$ : 3000311390915

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:  $912.425 \pm 0.000$   $\chi^2/\text{NDF}: 5330251110006219551936881140879589376.0/1$   
 Right Out:  $-1044.852 \pm 0.000$   $\chi^2/\text{NDF}: 50845956393664427375382832394046275584.0/17$   
 Left In:  $-967.815 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $44.633 \pm 0.000$   $\chi^2/\text{NDF}: 1904415707412$

# dit\_4aX\_coil6\_mean vs Slug, Sign Corrected



Right In: 1.808 +/- 0.000

$\chi^2/\text{NDF}$ : 7527409924358699638476786257362944.0/16

Left Out: 3.275 +/- 0.000

$\chi^2/\text{NDF}$ : 217498188550233367253181169401856.0/1

Right Out: -1.152 +/- 0.000

$\chi^2/\text{NDF}$ : 15220659080427743810069153064157184.0/17

Left In: -3.475 +/- 0.000

$\chi^2/\text{NDF}$ : 16.0/0

Left: 1.006 +/- 0.000  $\chi^2/\text{NDF}$ : 26676107064676598

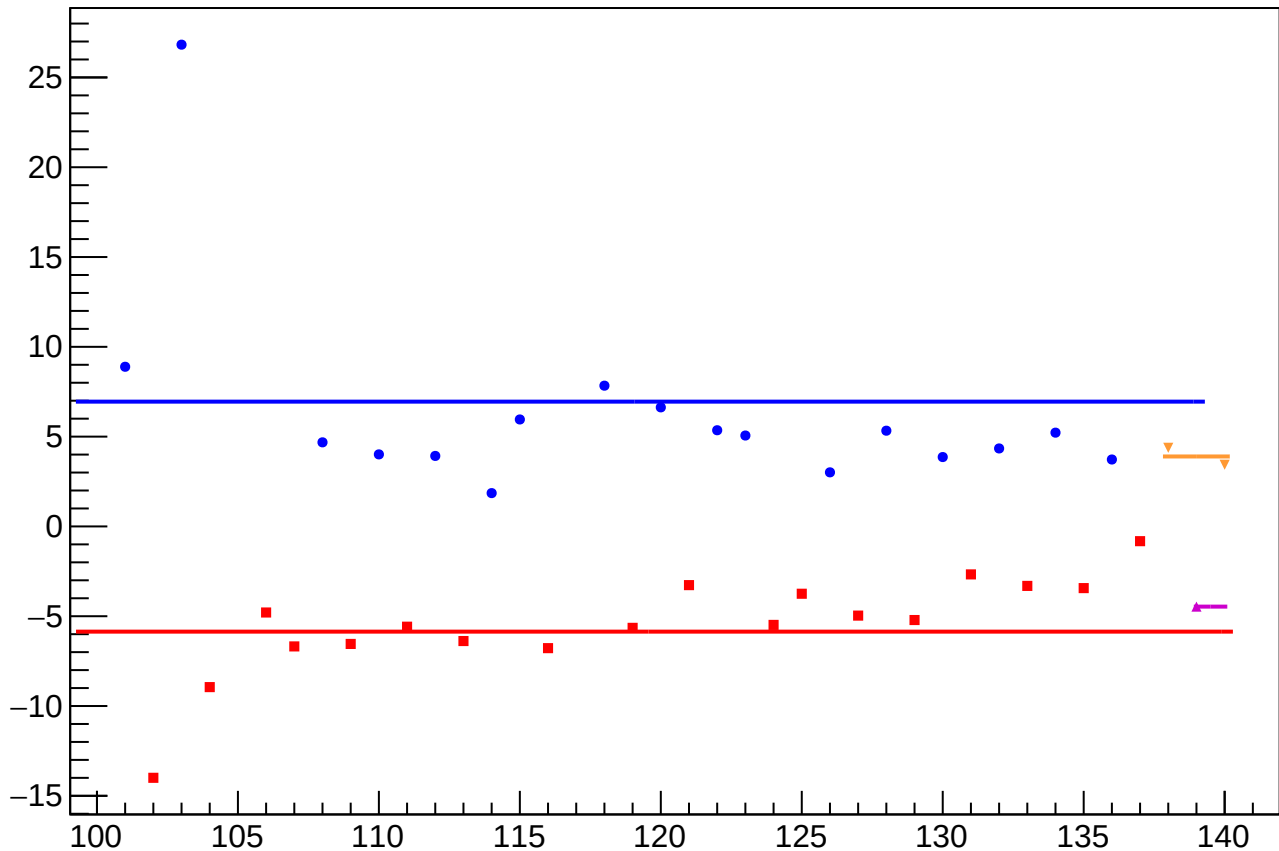
Right: 0.306 +/- 0.000  $\chi^2/\text{NDF}$ : 25834219652786474

In: 1.256 +/- 0.000  $\chi^2/\text{NDF}$ : 9551963155536301613

Out: -0.343 +/- 0.000  $\chi^2/\text{NDF}$ : 18000548556985199

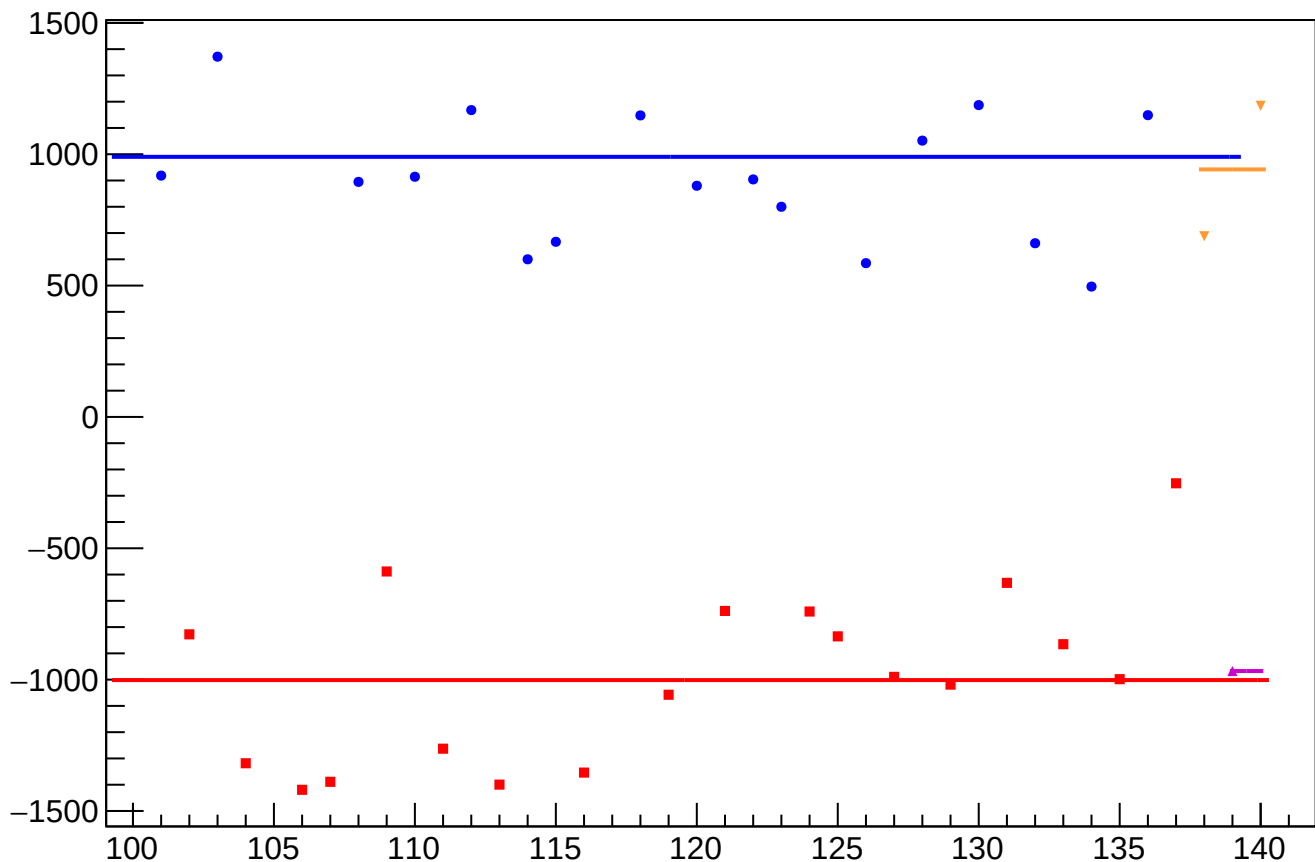
All: 0.408 +/- 0.000  $\chi^2/\text{NDF}$ : 28602764517700

dit\_4aX\_coil6\_err\_mean vs Slug, Sign Corrected



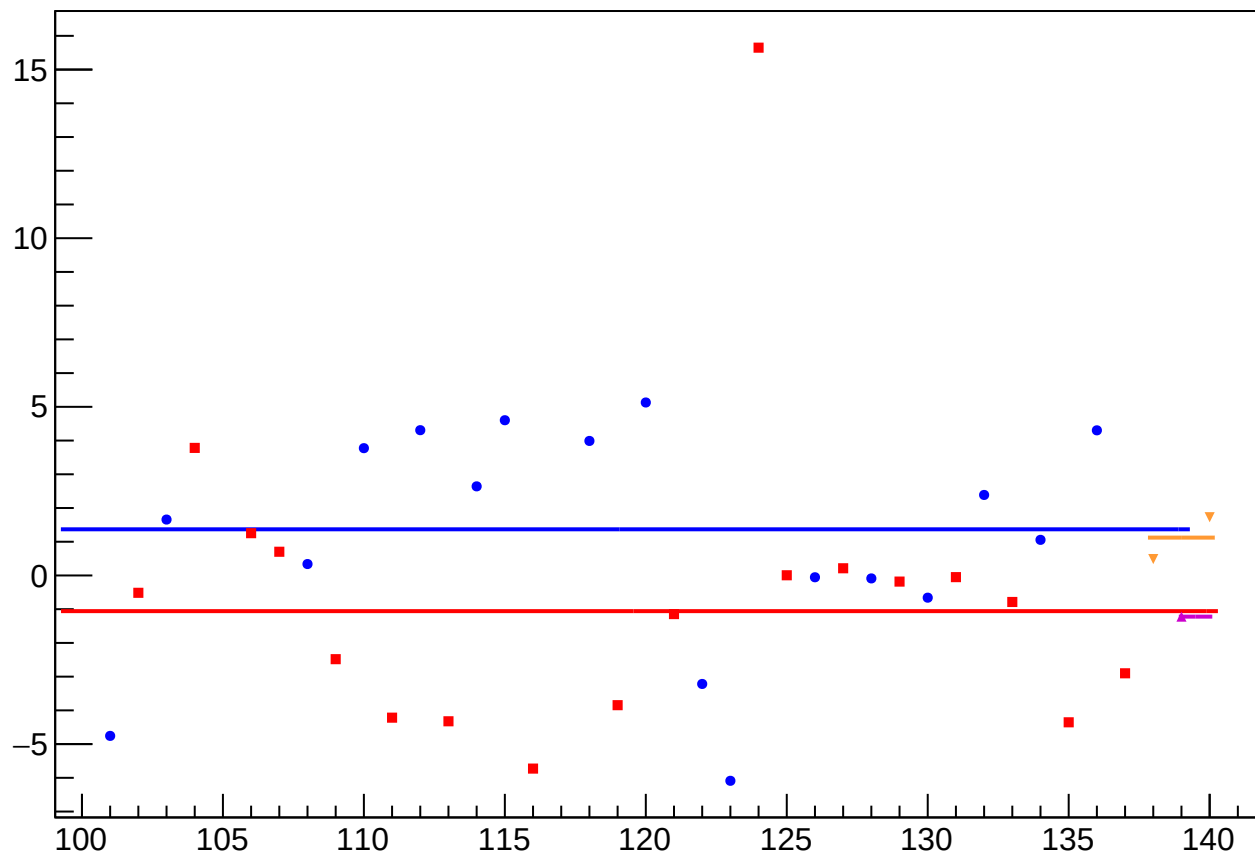
Right In:  $6.948 \pm 0.000$   $\chi^2/\text{NDF}$ : 27500472377838631302114625925939200.0/16  
 Left Out:  $3.895 \pm 0.000$   $\chi^2/\text{NDF}$ : 35640787979459240874821835292672.0/1  
 Right Out:  $-5.858 \pm 0.000$   $\chi^2/\text{NDF}$ : 6347530911749266996807271930920960.0/17  
 Left In:  $-4.465 \pm 0.000$   $\chi^2/\text{NDF}$ : 63.9/0  
 All:  $0.542 \pm 0.000$   $\chi^2/\text{NDF}$ : 95483165213400

dit\_4aX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



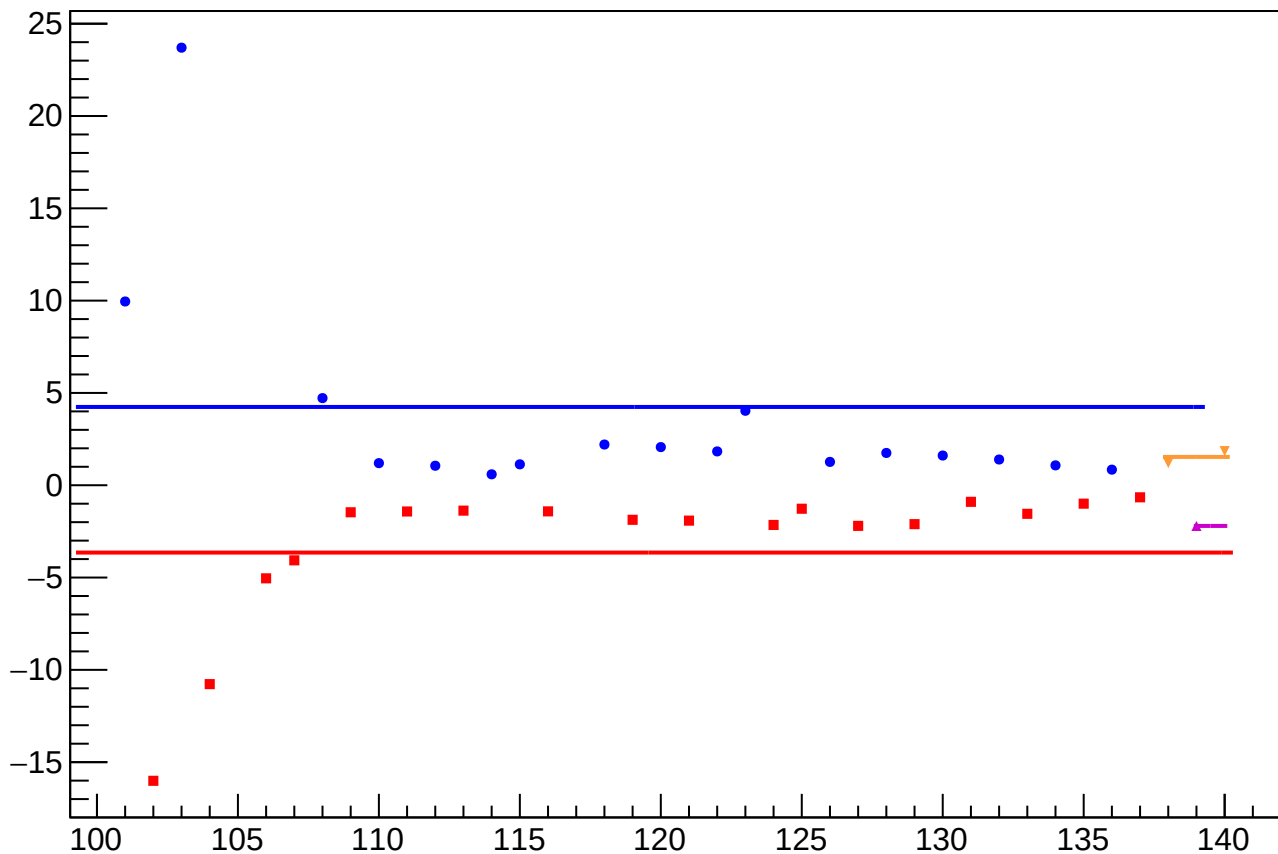
|                              |                                                                   |                        |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 990.104+/-0.000    | $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16 | Left: 300.485+/-0.000  | $\chi^2/\text{NDF}$ : 2059482247877670 |
| Left Out: 942.281+/-0.000    | $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1   | Right: -20.633+/-0.000 | $\chi^2/\text{NDF}$ : 149538797073234  |
| Right Out: -1001.684+/-0.000 | $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17 | In: 785.528+/-0.000    | $\chi^2/\text{NDF}$ : 3147923239013292 |
| Left In: -967.259+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -646.216+/-0.000  | $\chi^2/\text{NDF}$ : 565291523450371  |
|                              |                                                                   | All: 26.270+/-0.000    | $\chi^2/\text{NDF}$ : 1722557637007    |

# dit\_4eX\_coil6\_mean vs Slug, Sign Corrected



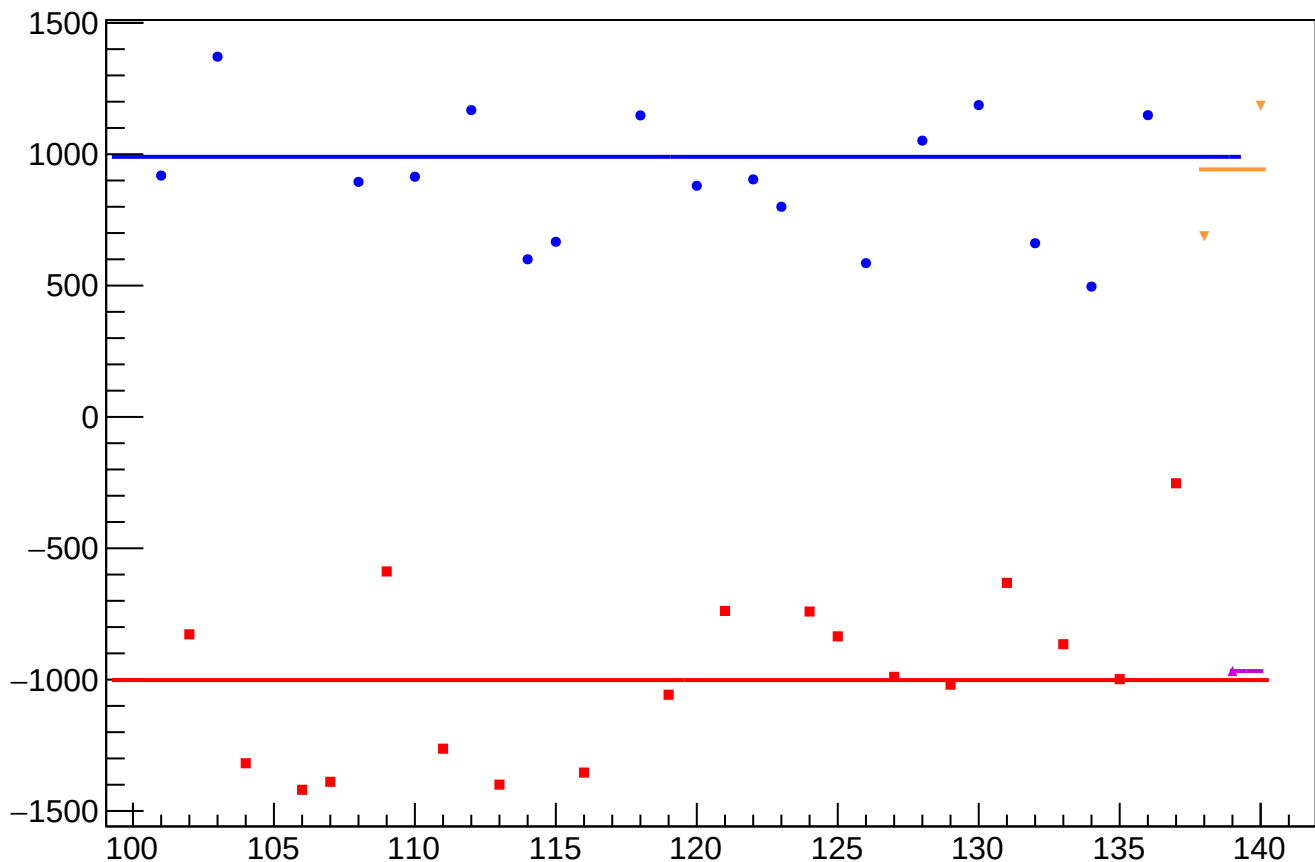
Right In: 1.369+/-0.000  $\chi^2/\text{NDF}$ : 6191636339009546001582067680280576.0/16  
 Left Out: 1.122+/-0.000  $\chi^2/\text{NDF}$ : 61500644950233701484729617874944.0/1  
 Right Out: -1.058+/-0.000  $\chi^2/\text{NDF}$ : 8169457084716591134016374239657984.0/17  
 Left In: -1.221+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.166+/-0.000  $\chi^2/\text{NDF}$ : 16798851195733

dit\_4eX\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 4.241+/-0.000  $\chi^2/\text{NDF}$ : 28619887598660619239245868781535232.0/16  
 Left Out: 1.534+/-0.000  $\chi^2/\text{NDF}$ : 16659213852199673893613478084608.0/1  
 Right Out: -3.647+/-0.000  $\chi^2/\text{NDF}$ : 14024721044013316870032890924105728.0/17  
 Left In: -2.204+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.244+/-0.000  $\chi^2/\text{NDF}$ : 65323067805522

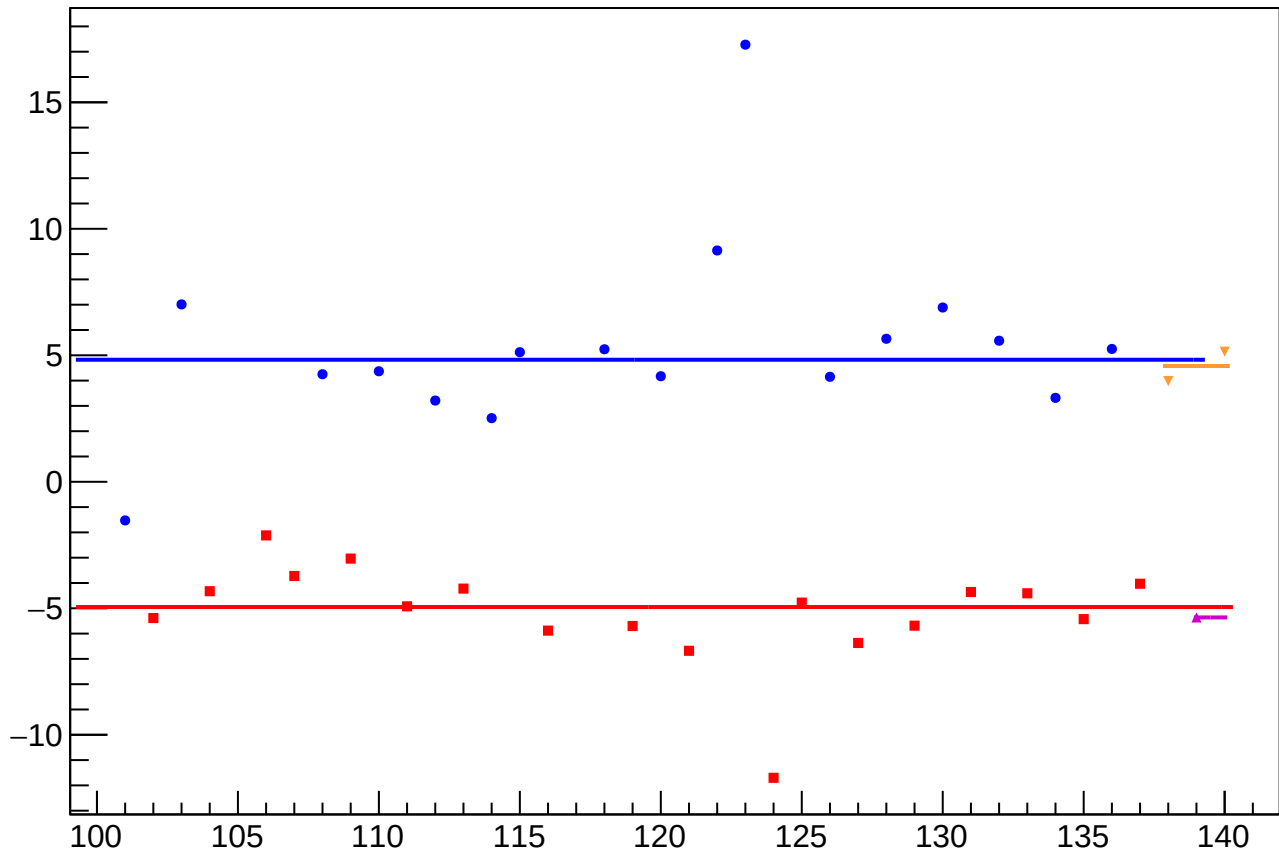
dit\_4eX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16  
 Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1  
 Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17  
 Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

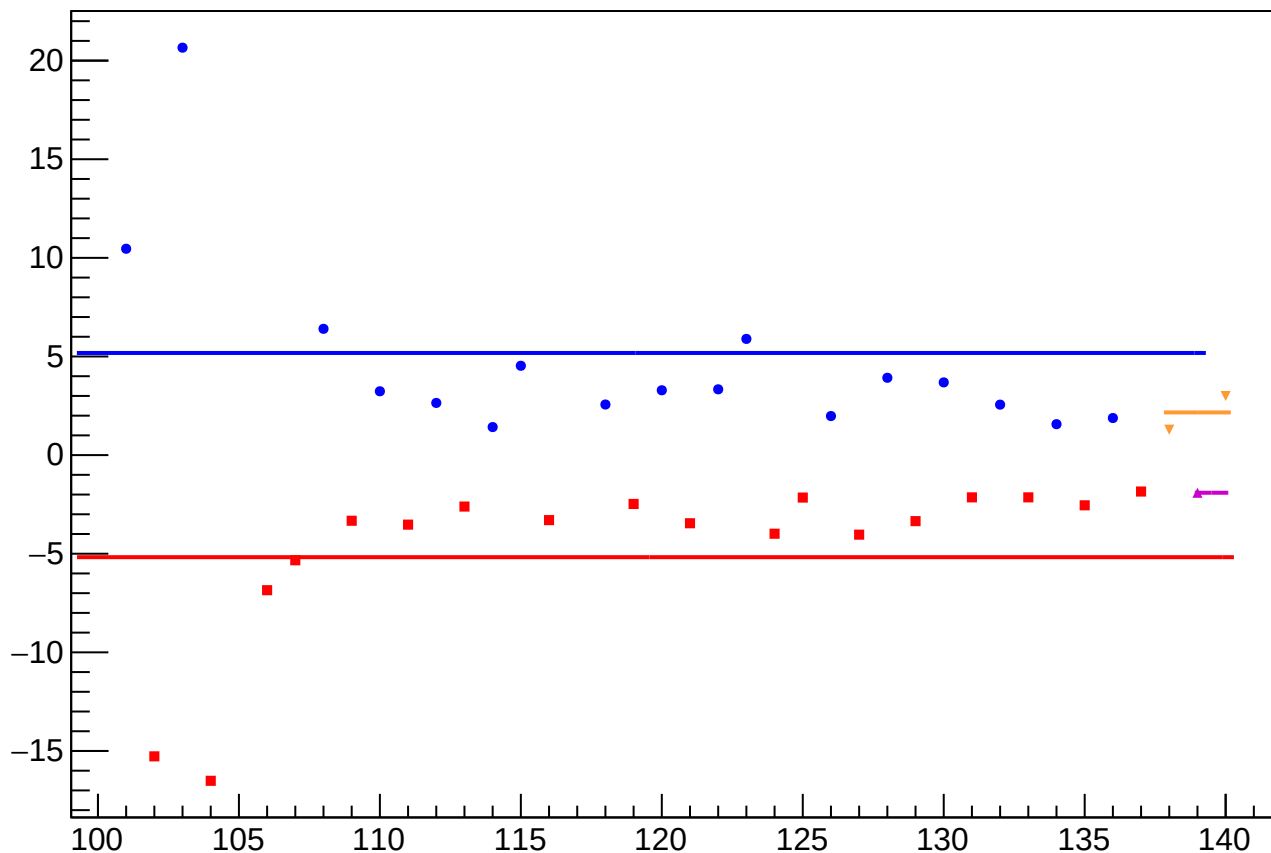


# dit\_11X12X\_coil6\_mean vs Slug, Sign Corrected



Right In:  $4.824 \pm 0.000$   $\chi^2/\text{NDF}$ : 4654072520475619864481183580553216.0/16  
 Left Out:  $4.577 \pm 0.000$   $\chi^2/\text{NDF}$ : 53887307948202447826698006167552.0/1  
 Right Out:  $-4.950 \pm 0.000$   $\chi^2/\text{NDF}$ : 1515007904318518564448163120283648.0/17  
 Left In:  $-5.362 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $0.065 \pm 0.000$   $\chi^2/\text{NDF}$ : 45567134961987

dit\_11X12X\_coil6\_err\_mean vs Slug, Sign Corrected



Left: 0.795+/-0.000  $\chi^2/\text{NDF}$ : 100802164929656745

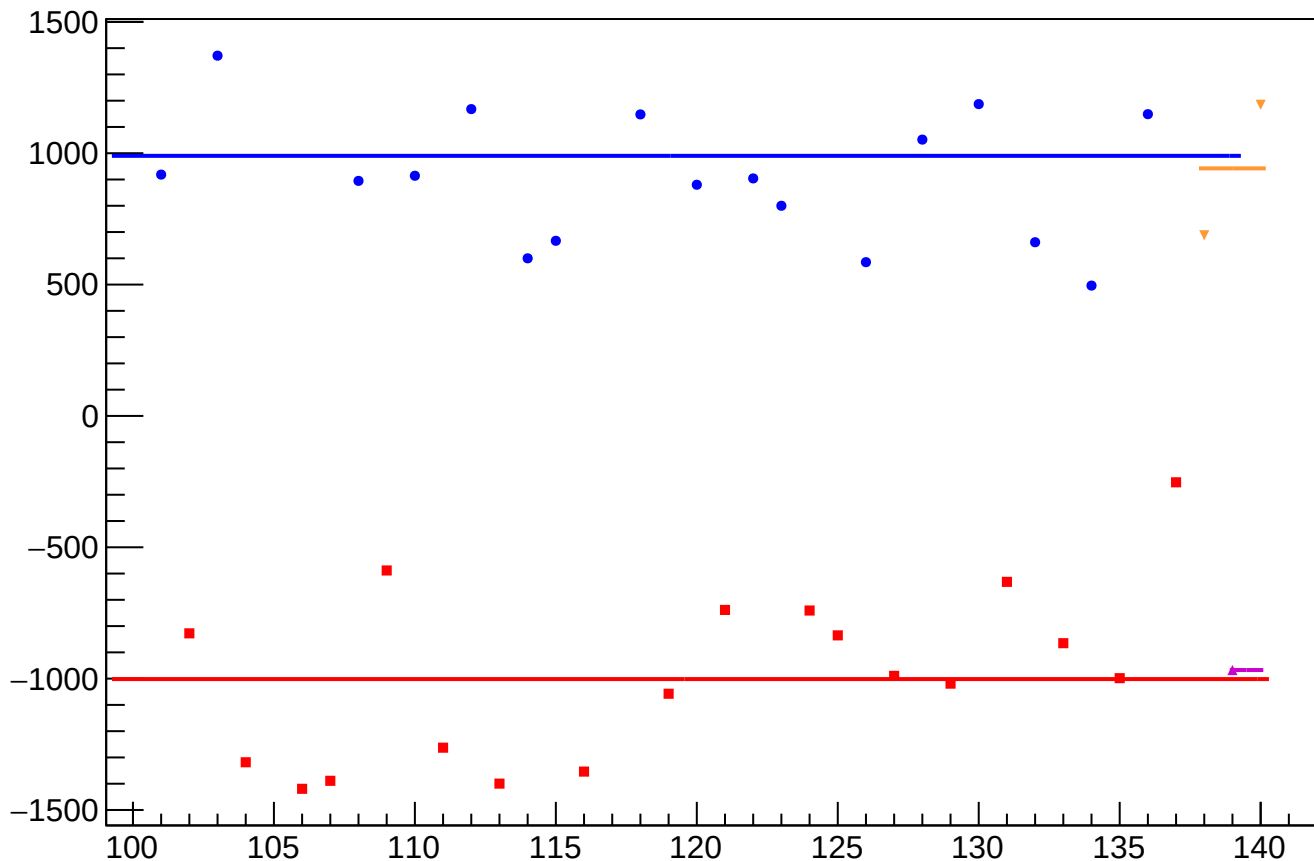
Right: -0.075+/-0.000  $\chi^2/\text{NDF}$ : 7252099107998548

In: 4.438+/-0.000  $\chi^2/\text{NDF}$ : 2285915552987426927

Out: -3.833+/-0.000  $\chi^2/\text{NDF}$ : 22710544150654689

All: 0.052+/-0.000  $\chi^2/\text{NDF}$ : 73684780891883

dit\_11X12X\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

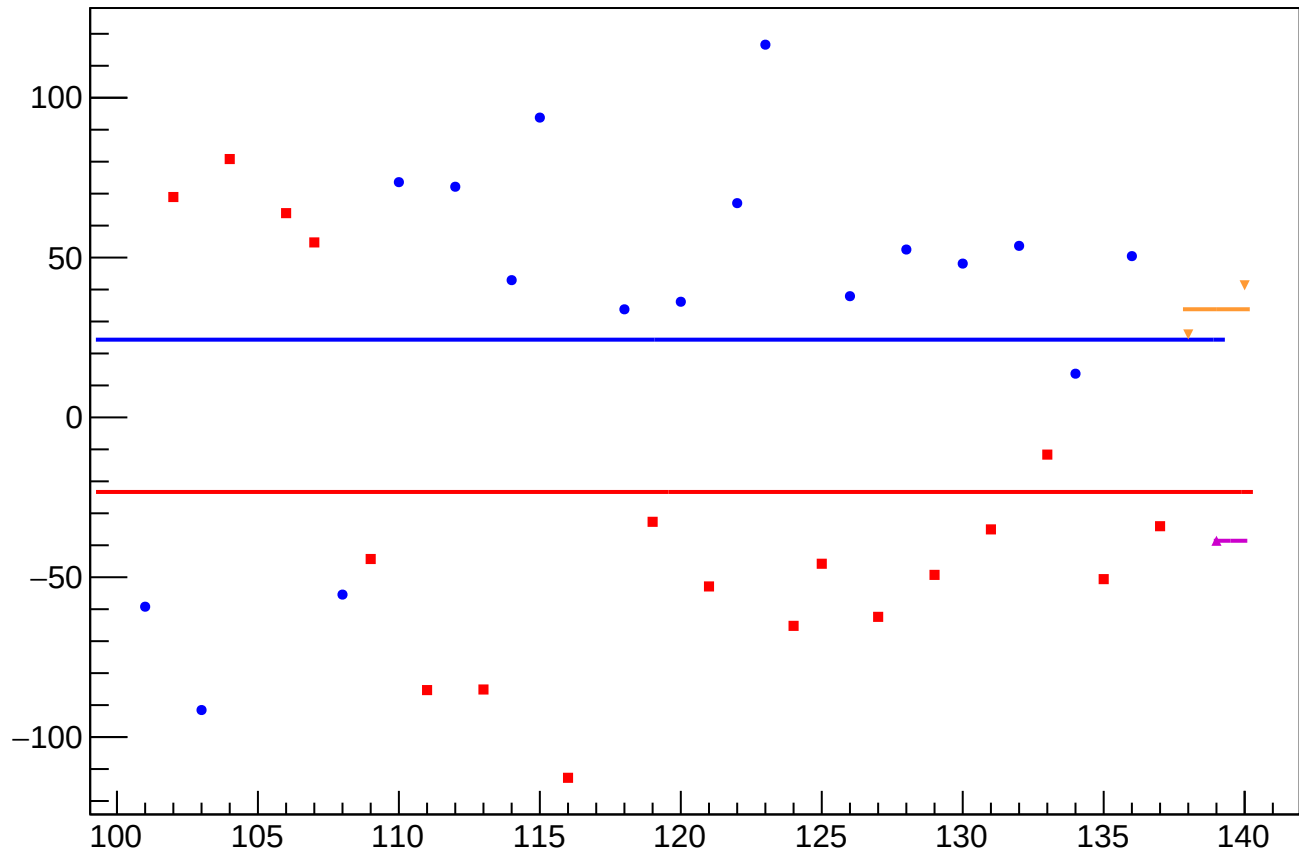
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_4aY\_coil6\_mean vs Slug, Sign Corrected



Right In: 24.318+/-0.000

$\chi^2/\text{NDF}$ : 2002814634195538334157710520710332416.0/16

Left Out: 33.833+/-0.000

$\chi^2/\text{NDF}$ : 9442235843133898353059555381870592.0/1

Right Out: -23.323+/-0.000

$\chi^2/\text{NDF}$ : 2300287491781415748029178925971144704.0/17

Left In: -38.589+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 9.492+/-0.000  $\chi^2/\text{NDF}$ : 29149715029683866.0/16

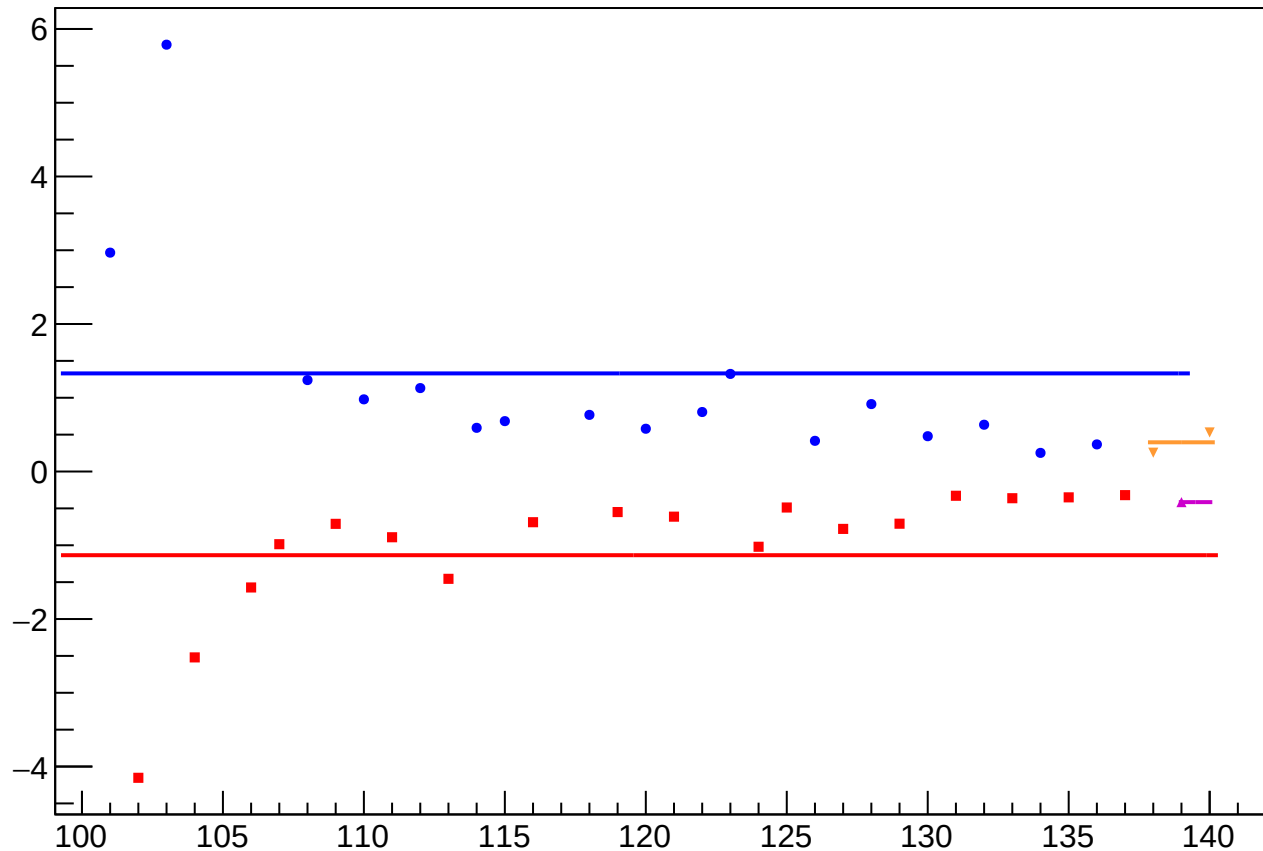
Right: 0.143+/-0.000  $\chi^2/\text{NDF}$ : 51024201837474036.0/16

In: 17.744+/-0.000  $\chi^2/\text{NDF}$ : 228986171928998458.0/16

Out: -12.871+/-0.000  $\chi^2/\text{NDF}$ : 2736836752774450.0/16

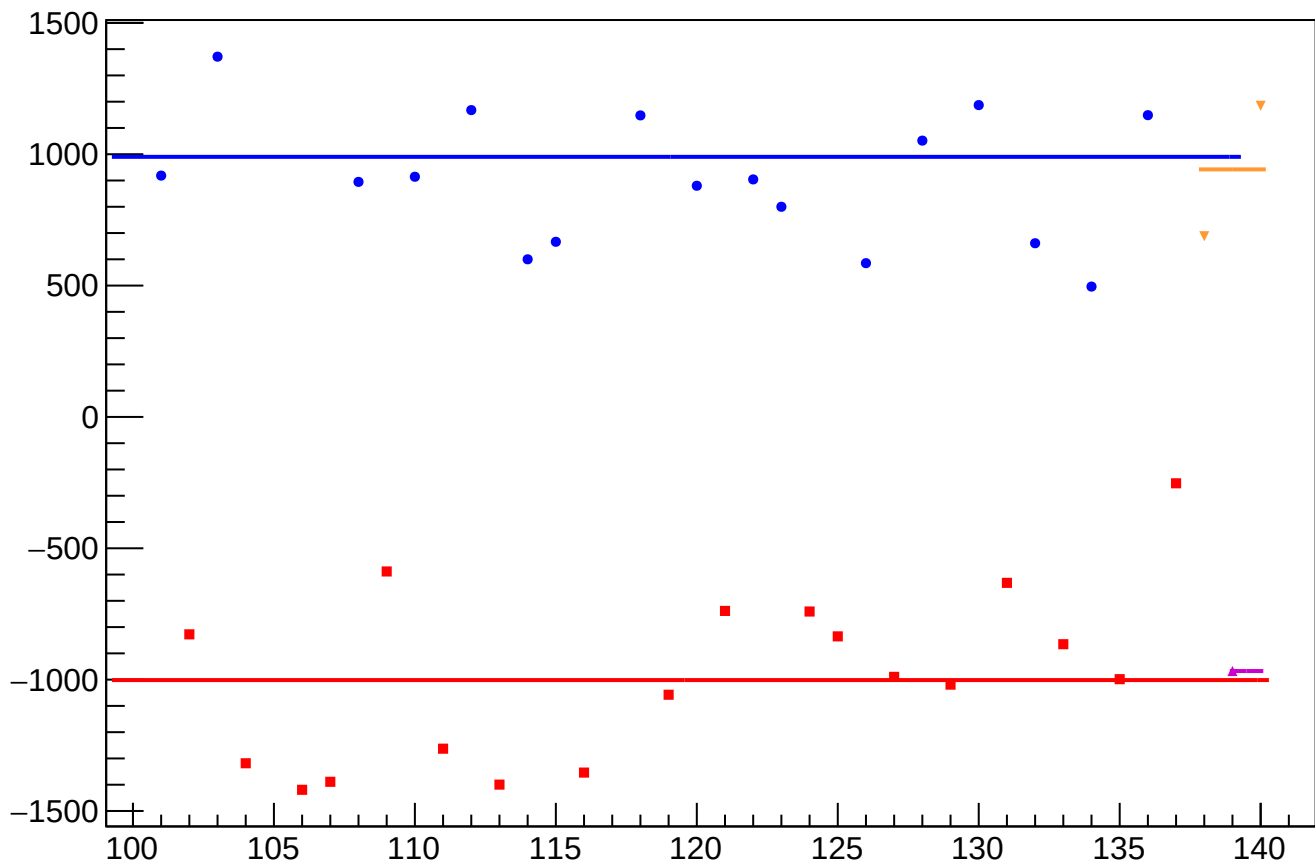
All: 1.508+/-0.000  $\chi^2/\text{NDF}$ : 54119048894321.0/16

dit\_4aY\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 1.330+/-0.000  $\chi^2/\text{NDF}$ : 1603106167275520107151234942631936.0/16  
 Left Out: 0.396+/-0.000  $\chi^2/\text{NDF}$ : 301152799743996398669695139840.0/1  
 Right Out: -1.135+/-0.000  $\chi^2/\text{NDF}$ : 803137408294494563054397652205568.0/17  
 Left In: -0.415+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 45847157307357

dit\_4aY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000

$\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000

$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

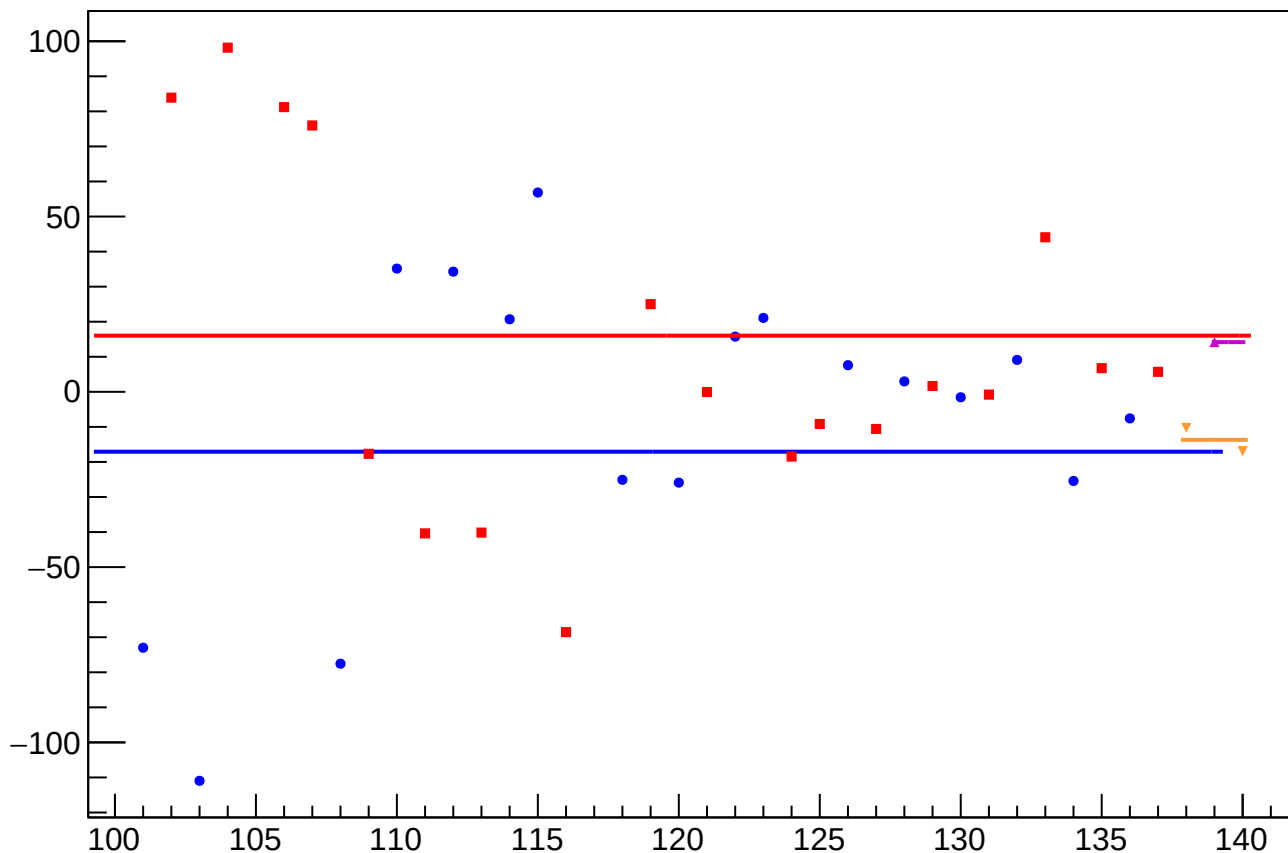
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_4eY\_coil6\_mean vs Slug, Sign Corrected



Right In: -17.080+/-0.000

Left Out: -13.697+/-0.000

Right Out: 16.026+/-0.000

Left In: 14.182+/-0.000

$\chi^2/\text{NDF}$ : 1305852396524110552444351569704517632.0/16

$\chi^2/\text{NDF}$ : 1758483451850184876772229996609536.0/1

$\chi^2/\text{NDF}$ : 1544075638091019901834252047429402624.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -4.327+/-0.000  $\chi^2/\text{NDF}$ : 43556193171769596

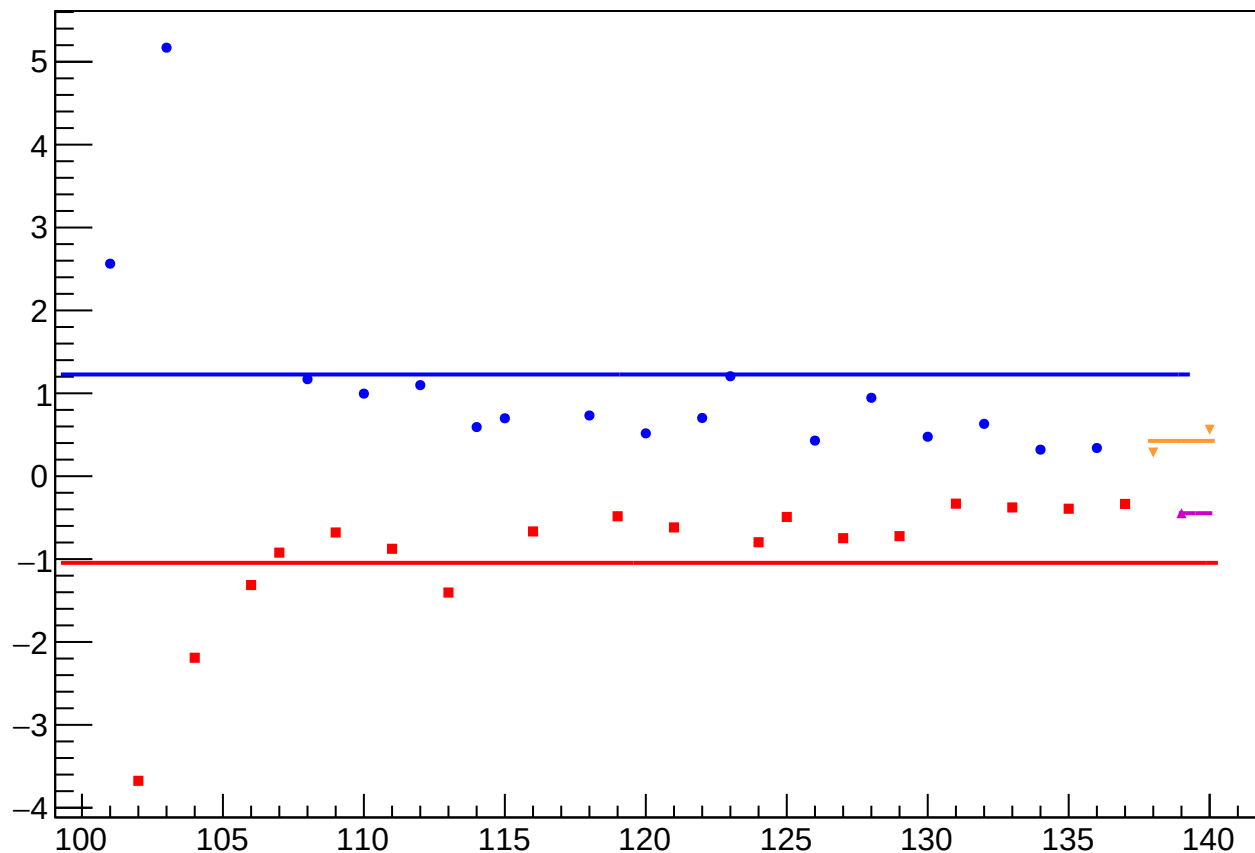
Right: -0.280+/-0.000  $\chi^2/\text{NDF}$ : 3235905793745171

In: -13.812+/-0.000  $\chi^2/\text{NDF}$ : 13767390480867366

Out: 10.591+/-0.000  $\chi^2/\text{NDF}$ : 16613439446111798

All: -0.871+/-0.000  $\chi^2/\text{NDF}$ : 3282832814884

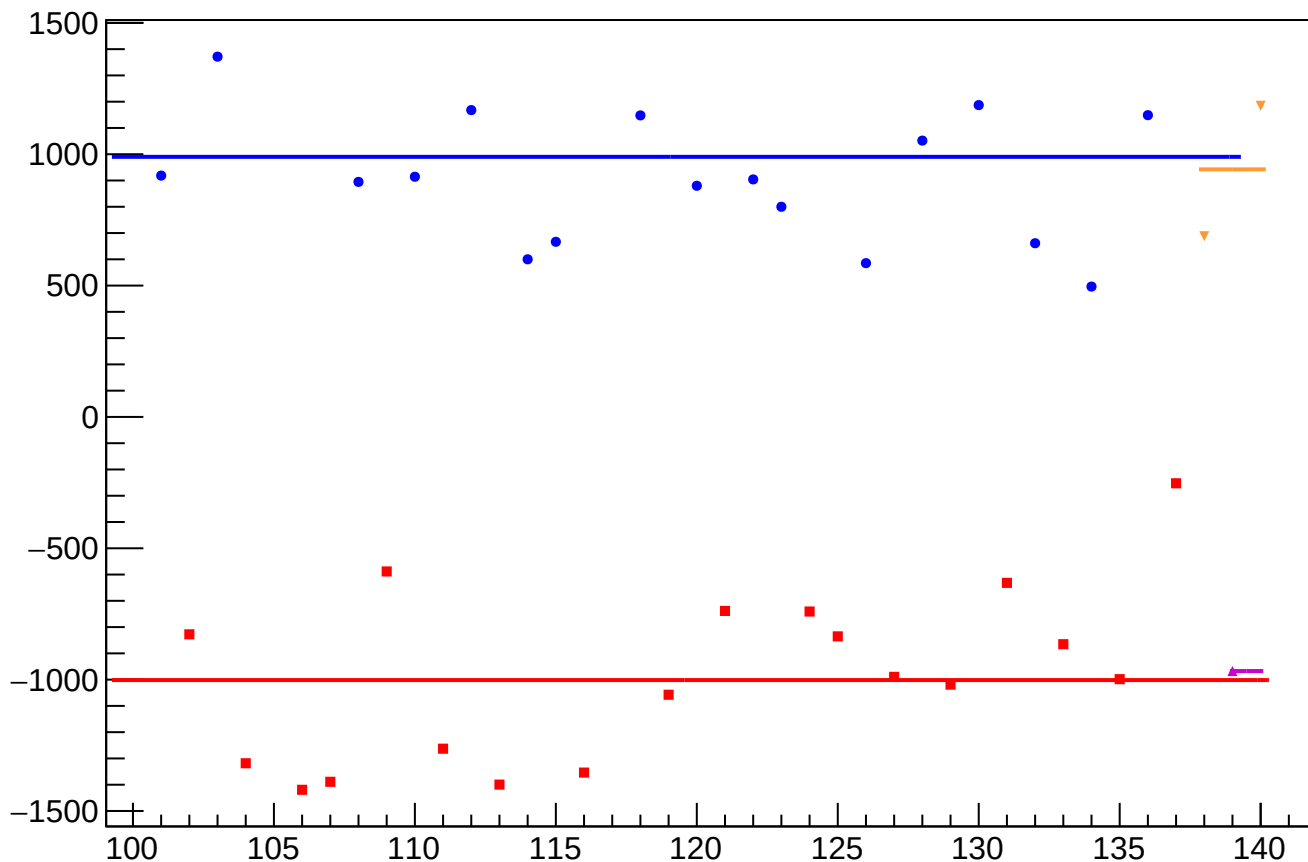
# dit\_4eY\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 1.227 $\pm$ 0.000  $\chi^2$ /NDF: 1236268785411842731770087408140288.0/16  
 Left Out: 0.426 $\pm$ 0.000  $\chi^2$ /NDF: 3024015000433412124175044182016.0/1  
 Right Out: -1.045 $\pm$ 0.000  $\chi^2$ /NDF: 600057841416365938926945245855744.0/17  
 Left In: -0.447 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.083 $\pm$ 0.000  $\chi^2$ /NDF: 36998873931384



dit\_4eY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

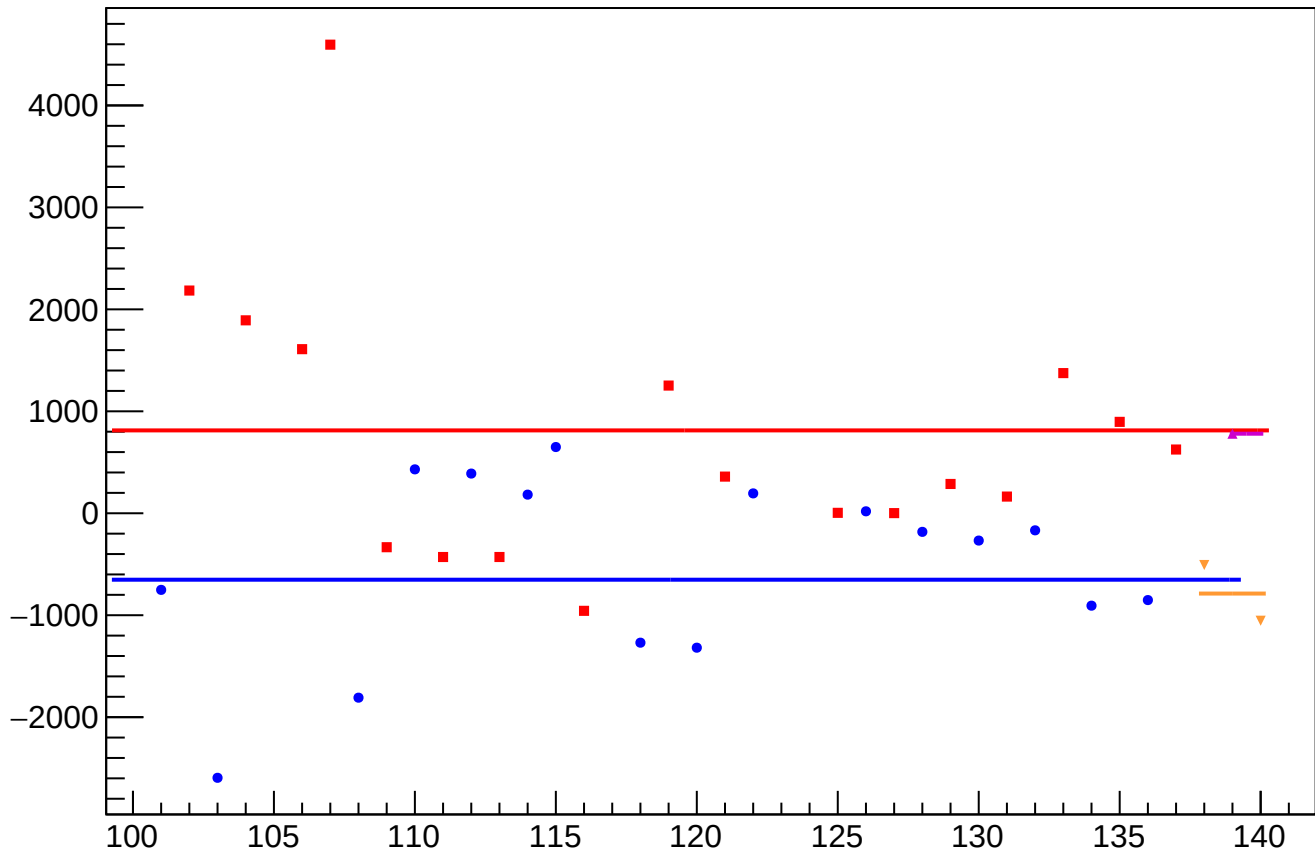
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_usl\_coil6\_mean vs Slug, Sign Corrected



Right In: -651.720+/-0.000

$\chi^2/\text{NDF}$ : 51525342951411170908240824492993019904.0/15

Left Out: -787.637+/-0.000

$\chi^2/\text{NDF}$ : 11938708076695241570170799599764111360.0/1

Right Out: 812.763+/-0.000

$\chi^2/\text{NDF}$ : 1101460876390641458322598423370785619968.0/16

Left In: 780.310+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: -260.651+/-0.000  $\chi^2/\text{NDF}$ : 144144578164290

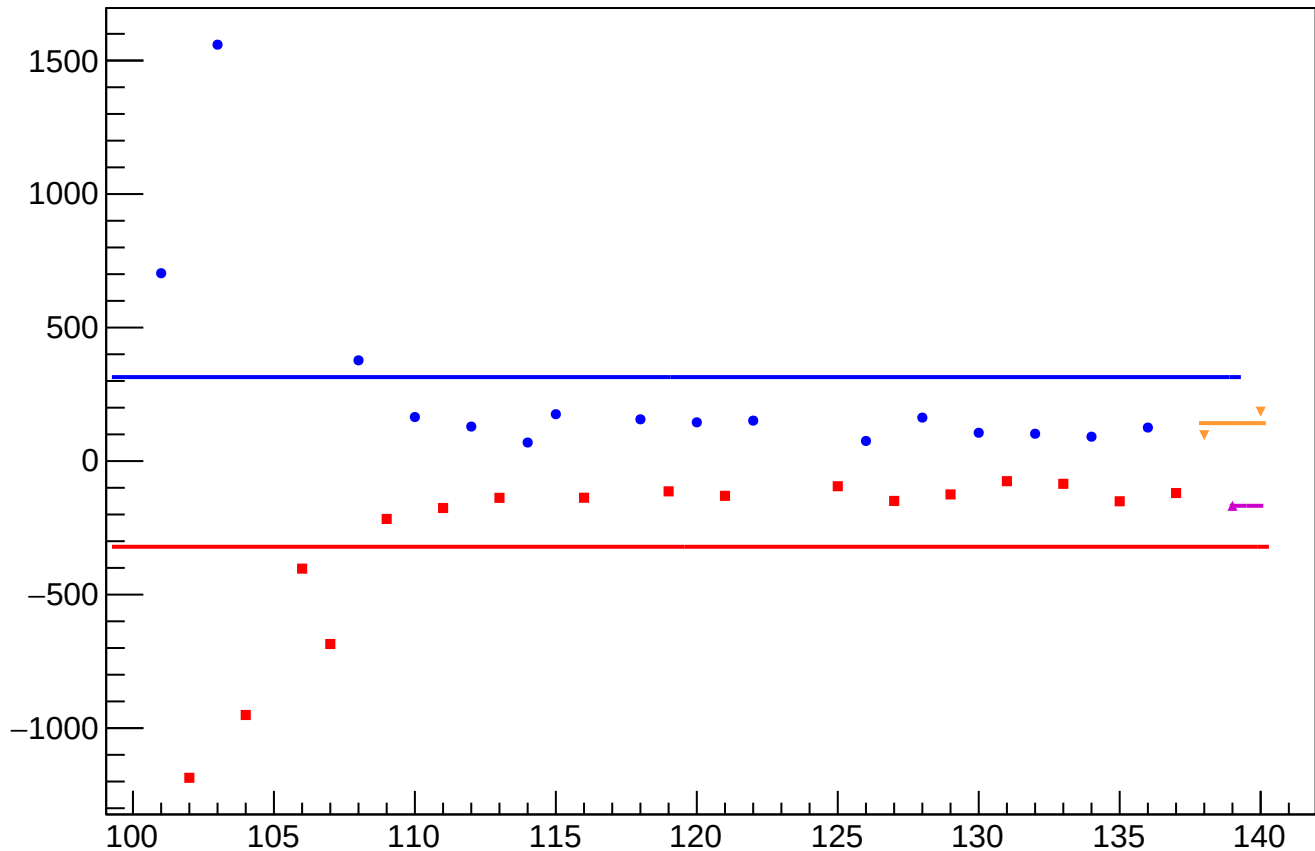
Right: 86.312+/-0.000  $\chi^2/\text{NDF}$ : 2362490834694491

In: -501.274+/-0.000  $\chi^2/\text{NDF}$ : 6639099941815674

Out: 515.360+/-0.000  $\chi^2/\text{NDF}$ : 1447050176389696

All: 35.075+/-0.000  $\chi^2/\text{NDF}$ : 2531363430706

# dit\_usl\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 314.545+/-0.000

$\chi^2/\text{NDF}$ : 119237374869722274381627978354572394496.0/15

Left Out: 142.063+/-0.000

$\chi^2/\text{NDF}$ : 310970000922338685103559155422068736.0/1

Right Out: -320.904+/-0.000

$\chi^2/\text{NDF}$ : 87674109079535670450798871539758399488.0/16

Left In: -167.388+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 38.057+/-0.000  $\chi^2/\text{NDF}$ : 54605404726474432

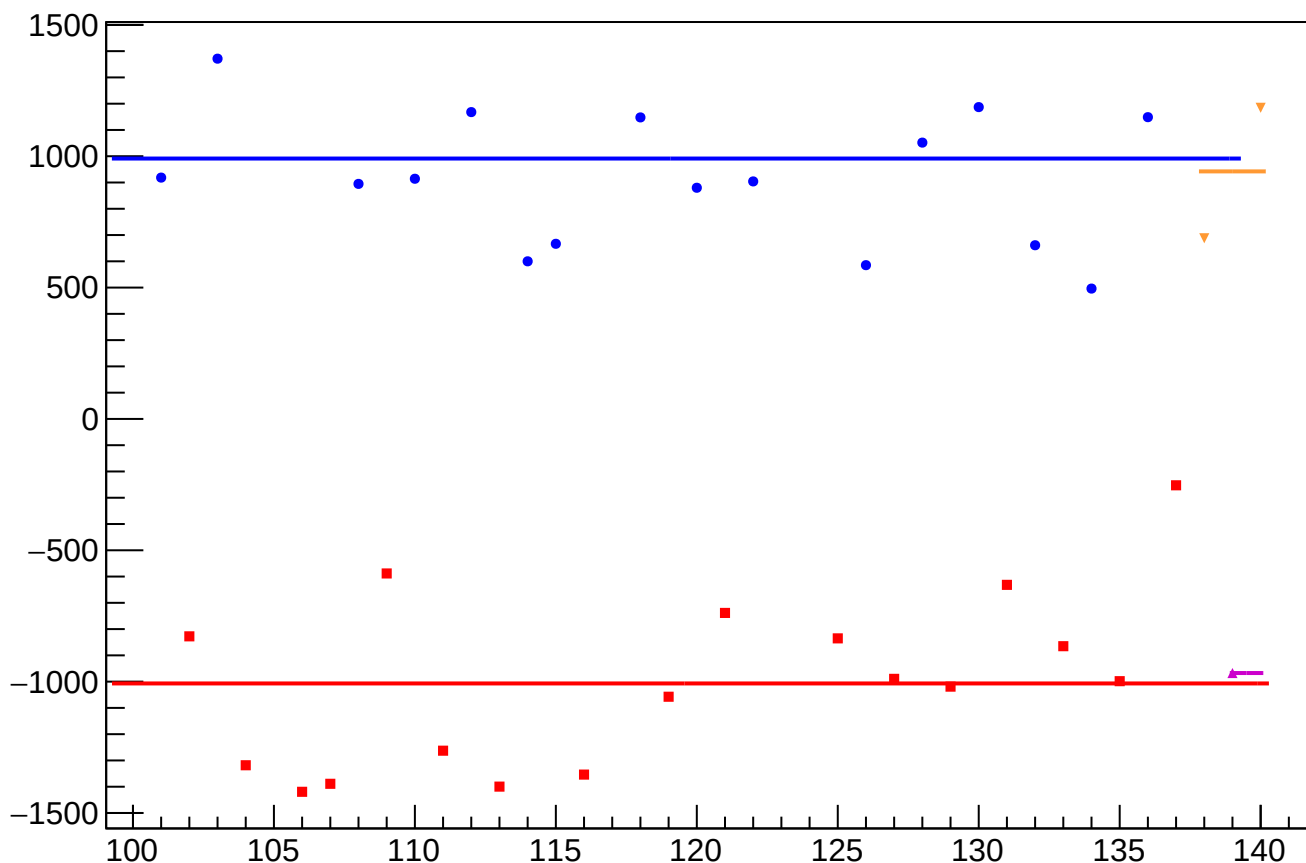
Right: -5.692+/-0.000  $\chi^2/\text{NDF}$ : 3473223749220098

In: 263.914+/-0.000  $\chi^2/\text{NDF}$ : 1360738964334584

Out: -234.871+/-0.000  $\chi^2/\text{NDF}$ : 115906296296354

All: 0.768+/-0.000  $\chi^2/\text{NDF}$ : 35317606182318

dit\_usl\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 991.206+/-0.000  $\chi^2/\text{NDF}$ : 36748853080147814133782972147039207424.0/15

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1006.896+/-0.000  $\chi^2/\text{NDF}$ : 60379057385364851969891575322776698880.0/16

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

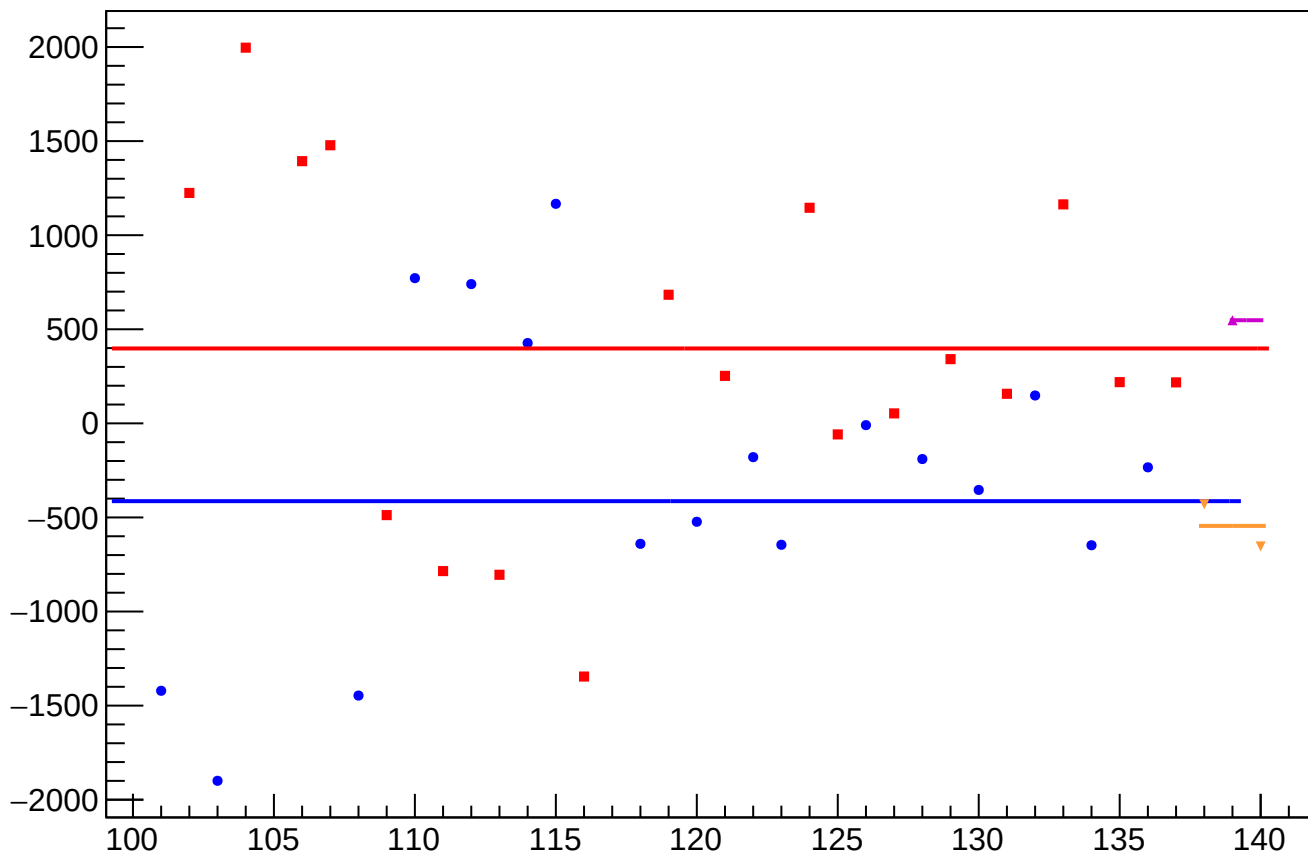
Right: -15.746+/-0.000  $\chi^2/\text{NDF}$ : 148540175020011

In: 785.453+/-0.000  $\chi^2/\text{NDF}$ : 3147914817698300

Out: -644.679+/-0.000  $\chi^2/\text{NDF}$ : 565164471657646

All: 30.953+/-0.000  $\chi^2/\text{NDF}$ : 1711891508246

# dit\_usr\_coil6\_mean vs Slug, Sign Corrected



Right In: -413.418+/-0.000

Left Out: -544.885+/-0.000

Right Out: 397.961+/-0.000

Left In: 548.063+/-0.000

$\chi^2/\text{NDF}$ : 416661262936725907024907175037323182080.0/16

$\chi^2/\text{NDF}$ : 2008114859039576662958423282408226816.0/1

$\chi^2/\text{NDF}$ : 544622124437292502497528454351499034624.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -177.545+/-0.000  $\chi^2/\text{NDF}$ : 662453639814969

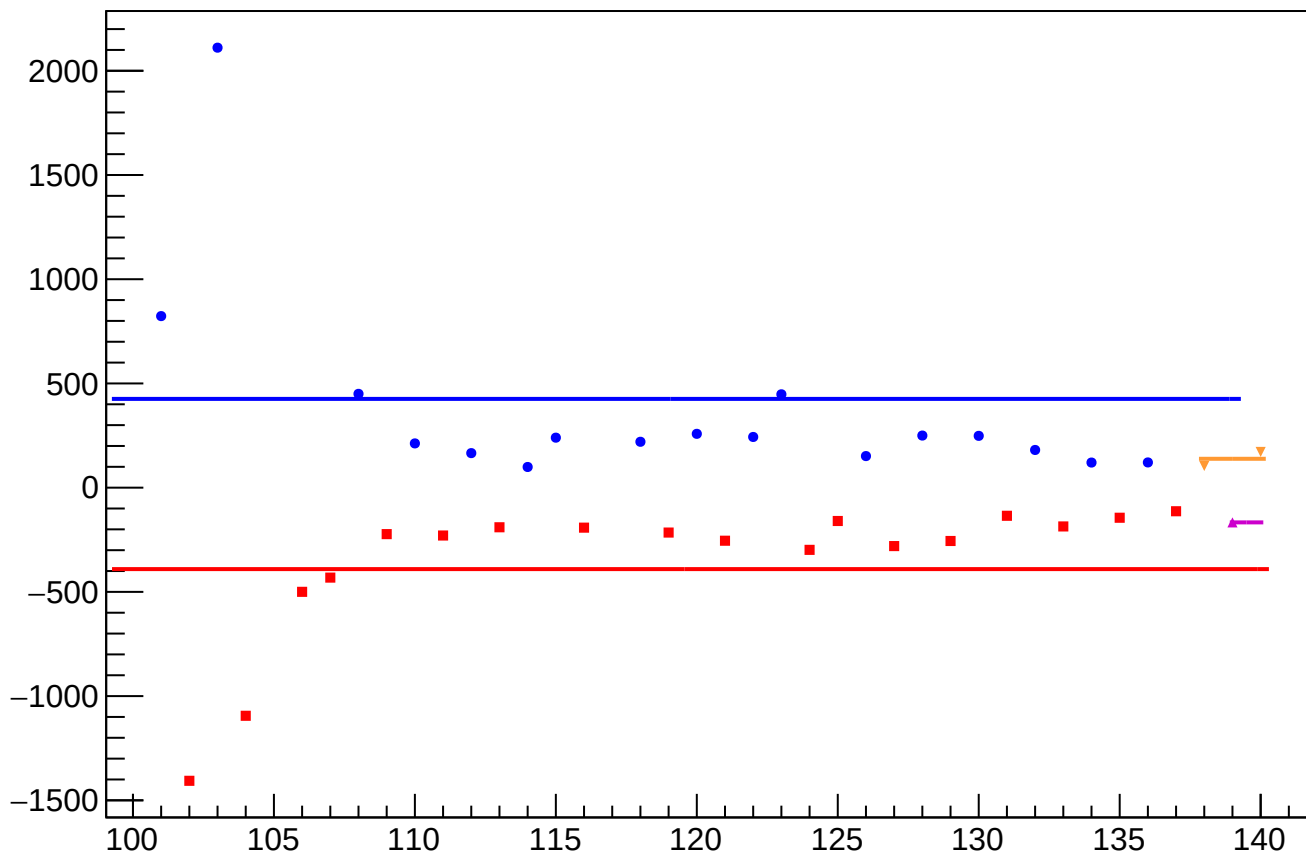
Right: -1.682+/-0.000  $\chi^2/\text{NDF}$ : 1193130523265405

In: -312.928+/-0.000  $\chi^2/\text{NDF}$ : 4837152149120615

Out: 225.555+/-0.000  $\chi^2/\text{NDF}$ : 6628550961452924

All: -27.369+/-0.000  $\chi^2/\text{NDF}$ : 126574082587

dit\_usr\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 425.847 +/- 0.000  $\chi^2/\text{NDF}$ : 207036344088227618256858466697210757120.0/16

Left Out: 138.508 +/- 0.000  $\chi^2/\text{NDF}$ : 181857196816073713408526711745675264.0/1

Right Out: -390.709 +/- 0.000  $\chi^2/\text{NDF}$ : 105177402148385851360915440950786916352.0/17

Left In: -166.620 +/- 0.000  $\chi^2/\text{NDF}$ : 65431.3/0

Left: 35.955 +/- 0.000  $\chi^2/\text{NDF}$ : 51885622781846157

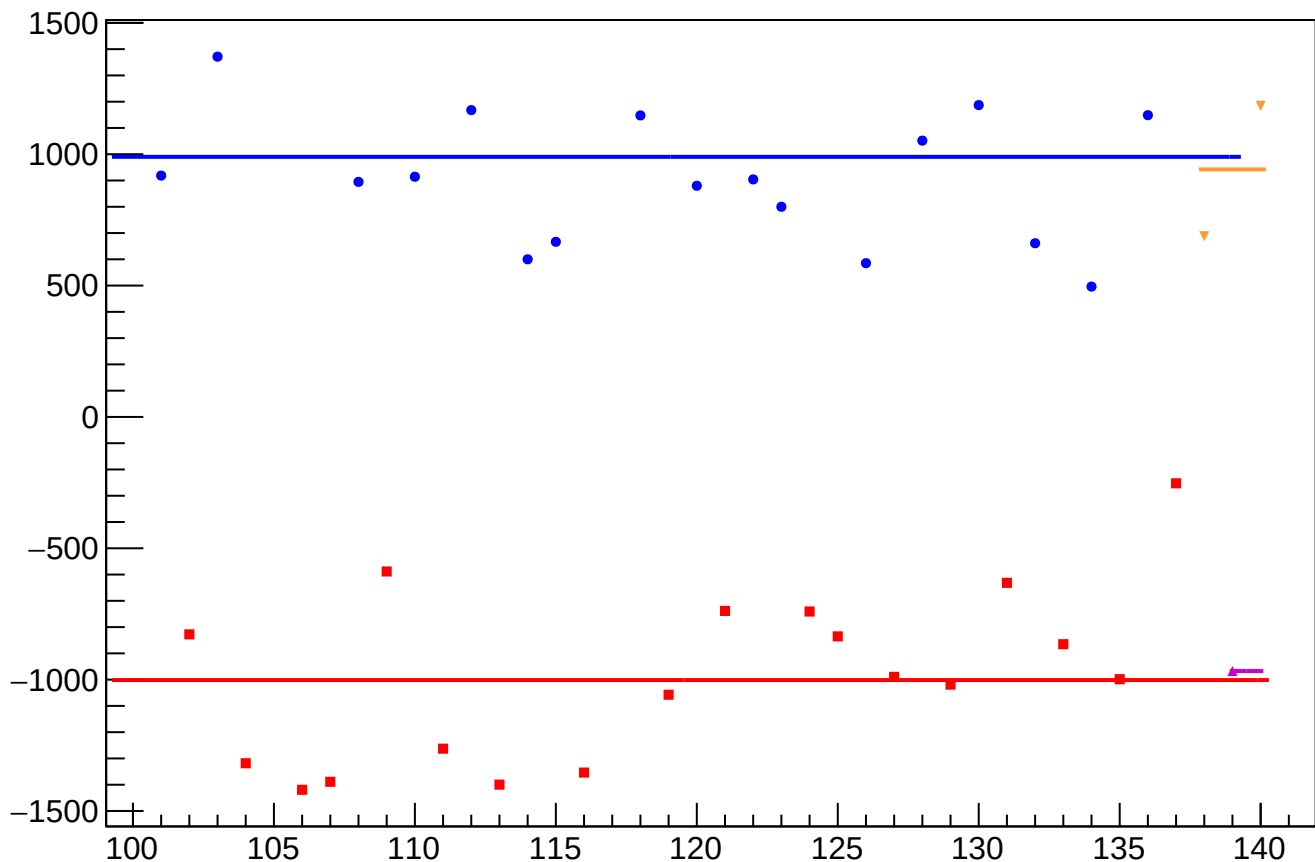
Right: 11.484 +/- 0.000  $\chi^2/\text{NDF}$ : 5470290295527024

In: 363.925 +/- 0.000  $\chi^2/\text{NDF}$ : 23249708994696960

Out: -293.938 +/- 0.000  $\chi^2/\text{NDF}$ : 141976476149197

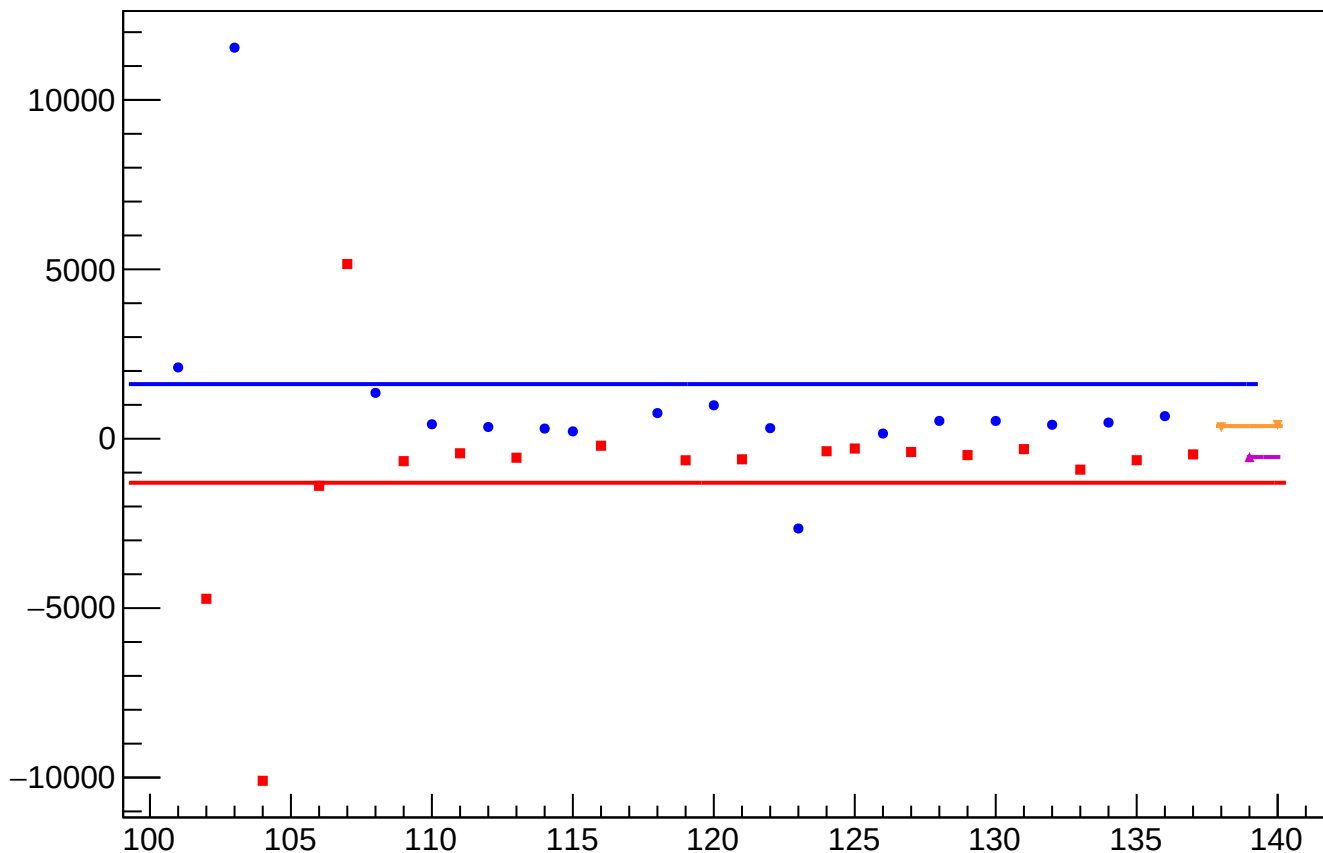
All: 15.058 +/- 0.000  $\chi^2/\text{NDF}$ : 5523408264821

dit\_usr\_coil6\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 990.104+/-0.000    | $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16 | Left: 300.485+/-0.000  | $\chi^2/\text{NDF}$ : 2059482247877670 |
| Left Out: 942.281+/-0.000    | $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1   | Right: -20.633+/-0.000 | $\chi^2/\text{NDF}$ : 149538797073234  |
| Right Out: -1001.684+/-0.000 | $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17 | In: 785.528+/-0.000    | $\chi^2/\text{NDF}$ : 3147923239013292 |
| Left In: -967.259+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -646.216+/-0.000  | $\chi^2/\text{NDF}$ : 565291523450371  |
|                              |                                                                   | All: 26.270+/-0.000    | $\chi^2/\text{NDF}$ : 1722557637007    |

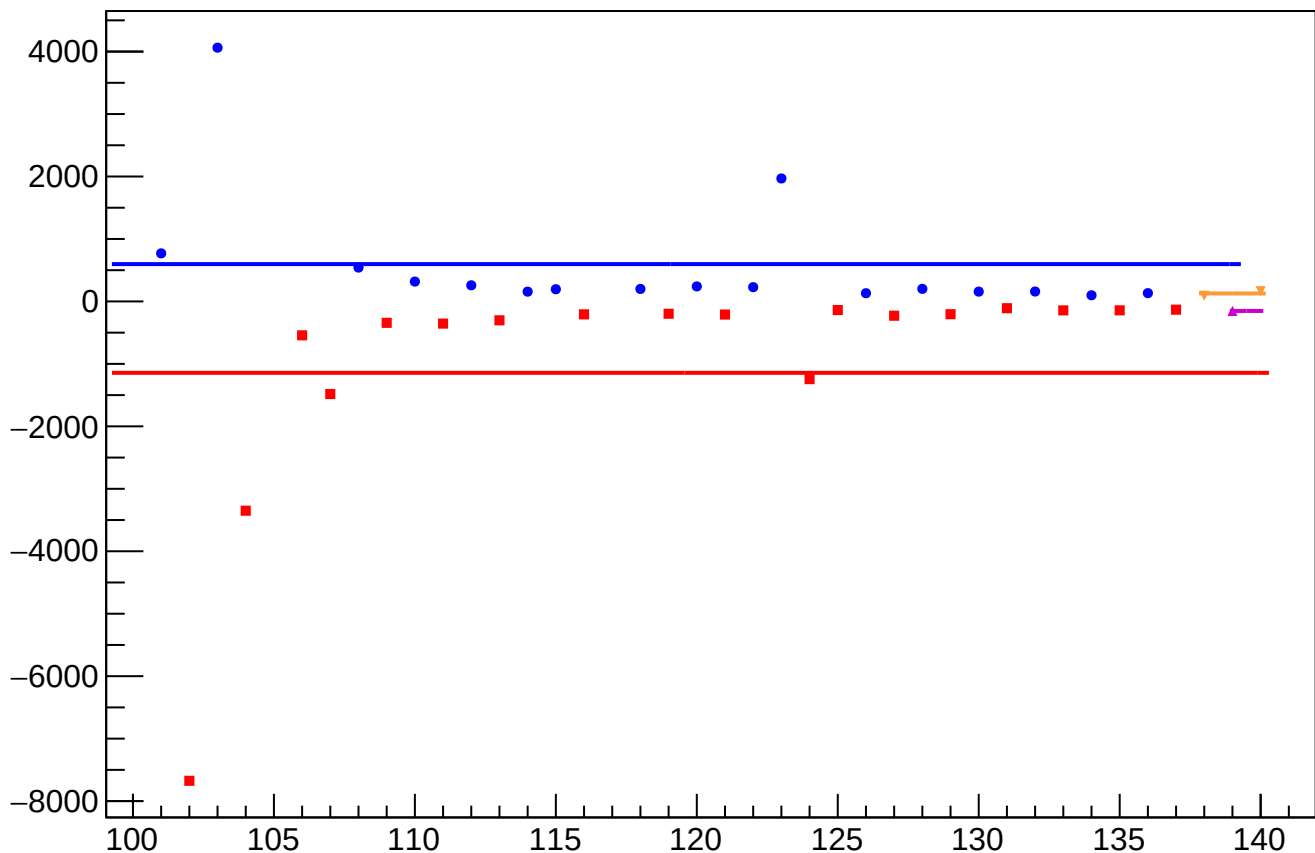
# dit\_atl1\_coil6\_mean vs Slug, Sign Corrected



Left: 66.668+/-0.000  $\chi^2/\text{NDF}$ : 45164479301665182  
 Right In: 1612.346+/-0.000  $\chi^2/\text{NDF}$ : 6578565632222822389389916952029424517120.0/16  
 Left Out: 374.031+/-0.000  $\chi^2/\text{NDF}$ : 191184265282072420984872109852327936.0/1  
 Right: 134.667+/-0.000  $\chi^2/\text{NDF}$ : 160329855718558  
 In: 1387.342+/-0.000  $\chi^2/\text{NDF}$ : 6914733416753145  
 Right Out: -1299.611+/-0.000  $\chi^2/\text{NDF}$ : 6468181068576271058681439598083982753792.0/17  
 Out: -993.574+/-0.000  $\chi^2/\text{NDF}$ : 683459311254916  
 Left In: -540.468+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 124.735+/-0.000  $\chi^2/\text{NDF}$ : 160791016504

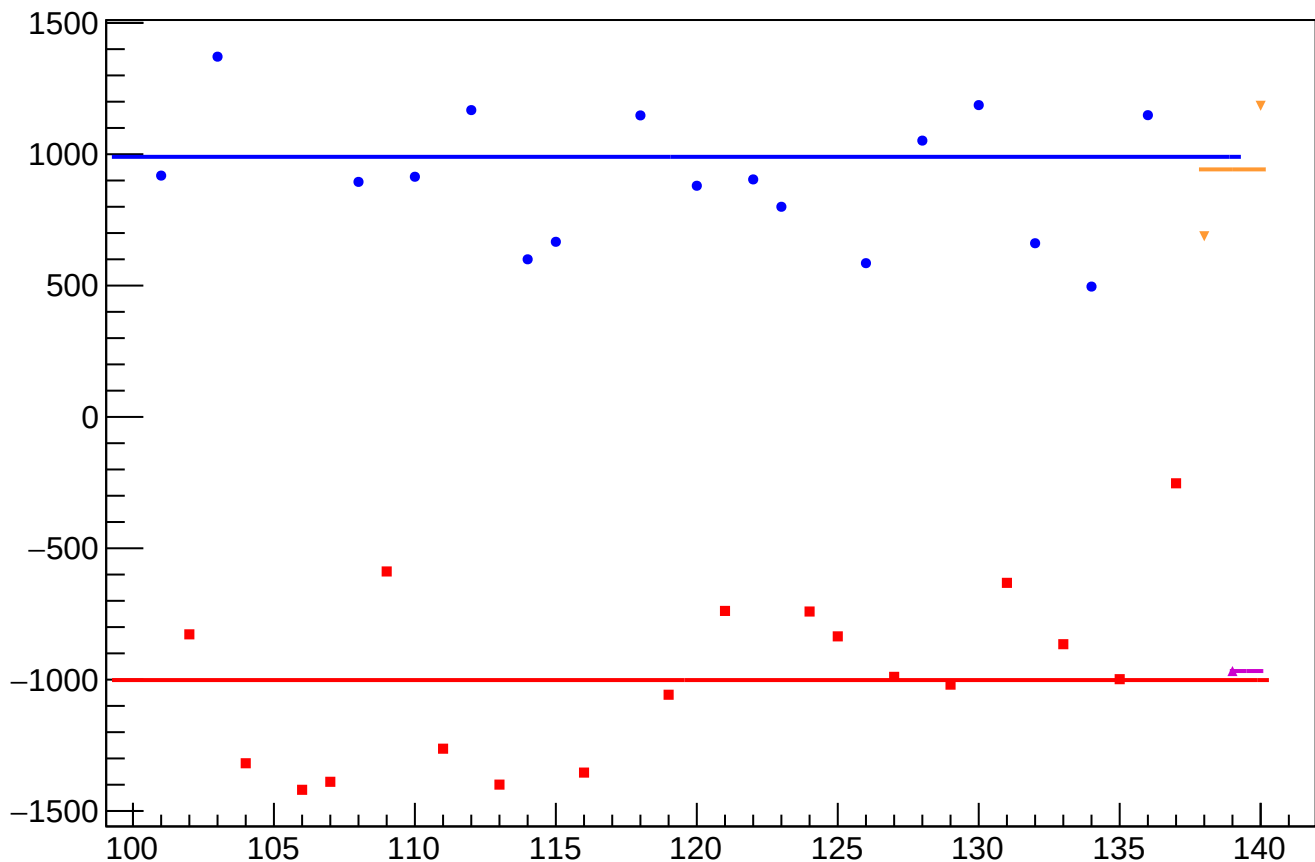


dit\_atl1\_coil6\_err\_mean vs Slug, Sign Corrected



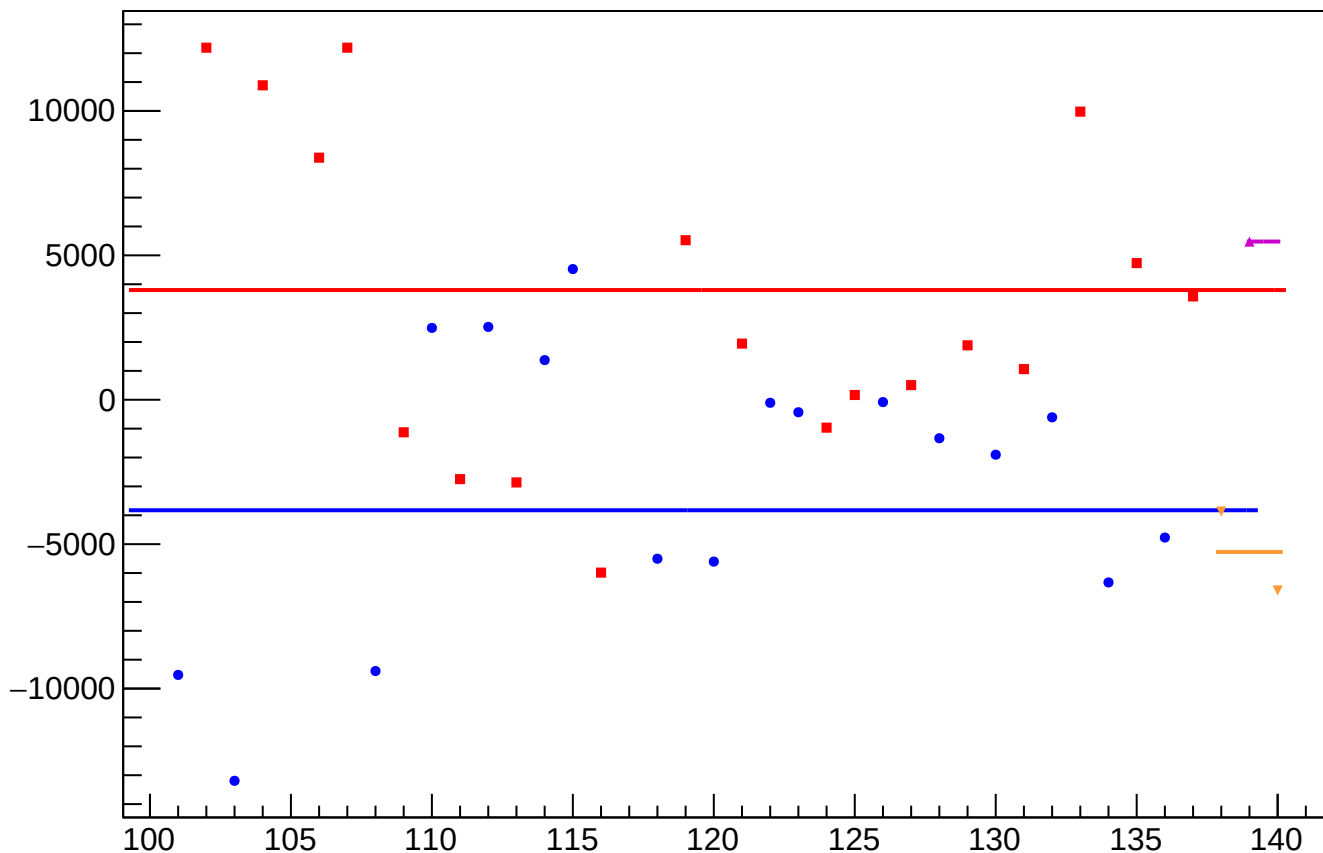
Right In: 597.382+/-0.000  $\chi^2/\text{NDF}$ : 808468639420281882930484113186400239616.0/16  
 Left Out: 127.947+/-0.000  $\chi^2/\text{NDF}$ : 214184125205029581437649718595289088.0/1  
 Right Out: -1143.180+/-0.000  $\chi^2/\text{NDF}$ : 3192644561132334907368616853810301632512.0/17  
 Left In: -152.688+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -239.204+/-0.000  $\chi^2/\text{NDF}$ : 50934939597

dit\_atl1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 990.104+/-0.000    | $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16 | Left: 300.485+/-0.000  | $\chi^2/\text{NDF}$ : 2059482247877670 |
| Left Out: 942.281+/-0.000    | $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1   | Right: -20.633+/-0.000 | $\chi^2/\text{NDF}$ : 149538797073234  |
| Right Out: -1001.684+/-0.000 | $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17 | In: 785.528+/-0.000    | $\chi^2/\text{NDF}$ : 3147923239013292 |
| Left In: -967.259+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -646.216+/-0.000  | $\chi^2/\text{NDF}$ : 565291523450371  |
|                              |                                                                   | All: 26.270+/-0.000    | $\chi^2/\text{NDF}$ : 1722557637007    |

# dit\_atl2\_coil6\_mean vs Slug, Sign Corrected



Right In: -3825.392+/-0.000

Left Out: -5270.297+/-0.000

Right Out: 3798.528+/-0.000

Left In: 5477.677+/-0.000

$\chi^2/\text{NDF}$ : 15445294605440071214640081166471362772992.0/16

$\chi^2/\text{NDF}$ : 298497144372698762301033245466769227776.0/1

$\chi^2/\text{NDF}$ : 21131316959829635023813459777790997954560.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -1657.908+/-0.000  $\chi^2/\text{NDF}$ : 65106367918963

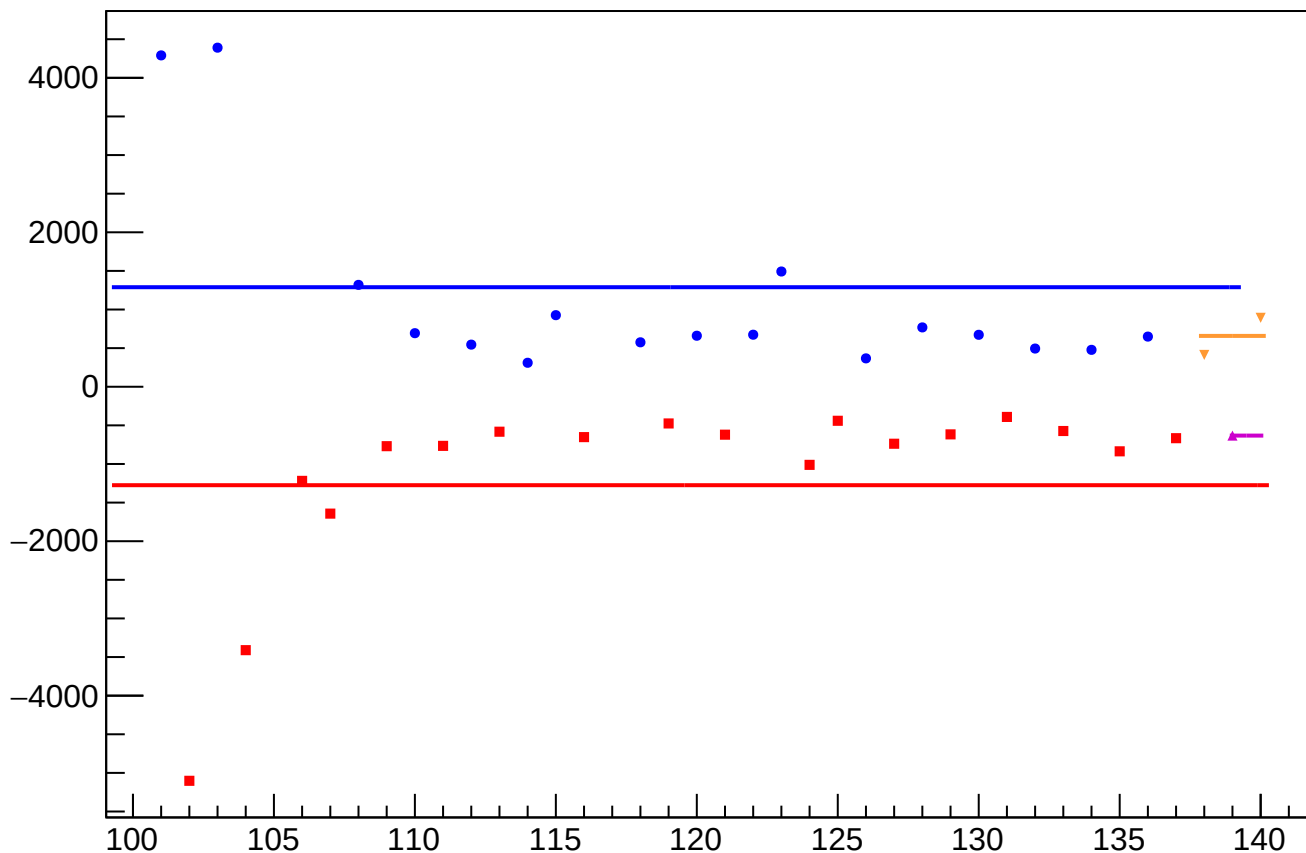
Right: 43.382+/-0.000  $\chi^2/\text{NDF}$ : 5704630071660789

In: -2853.071+/-0.000  $\chi^2/\text{NDF}$ : 217229185843087

Out: 2140.229+/-0.000  $\chi^2/\text{NDF}$ : 321825774183270

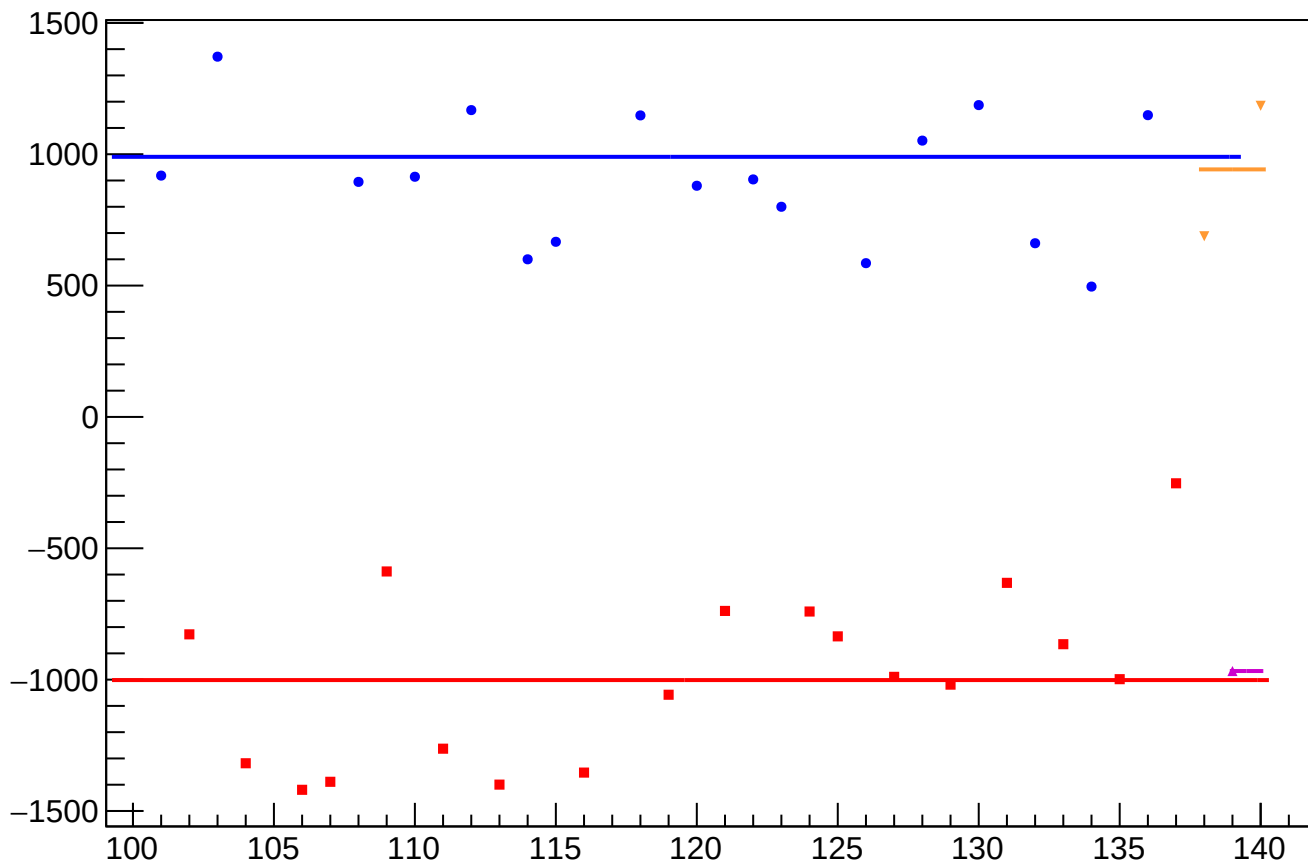
All: -205.109+/-0.000  $\chi^2/\text{NDF}$ : 64152600646

dit\_atl2\_coil6\_err\_mean vs Slug, Sign Corrected



Left: 224.558 +/- 0.000  $\chi^2/\text{NDF}$ : 9884339637996765  
 Right: -11.986 +/- 0.000  $\chi^2/\text{NDF}$ : 498385630578558  
 In: 1088.151 +/- 0.000  $\chi^2/\text{NDF}$ : 1620701138903512  
 Out: -921.242 +/- 0.000  $\chi^2/\text{NDF}$ : 181409661561454  
 All: 22.564 +/- 0.000  $\chi^2/\text{NDF}$ : 5094214779133  
 Right In: 1288.972 +/- 0.000  $\chi^2/\text{NDF}$ : 1352910763882575479104094227028785496064.0/16  
 Left Out: 658.426 +/- 0.000  $\chi^2/\text{NDF}$ : 9231337007610566851906268577061142528.0/1  
 Right Out: -1274.734 +/- 0.000  $\chi^2/\text{NDF}$ : 1316265489507064730168544372361657319424.0/17  
 Left In: -632.464 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

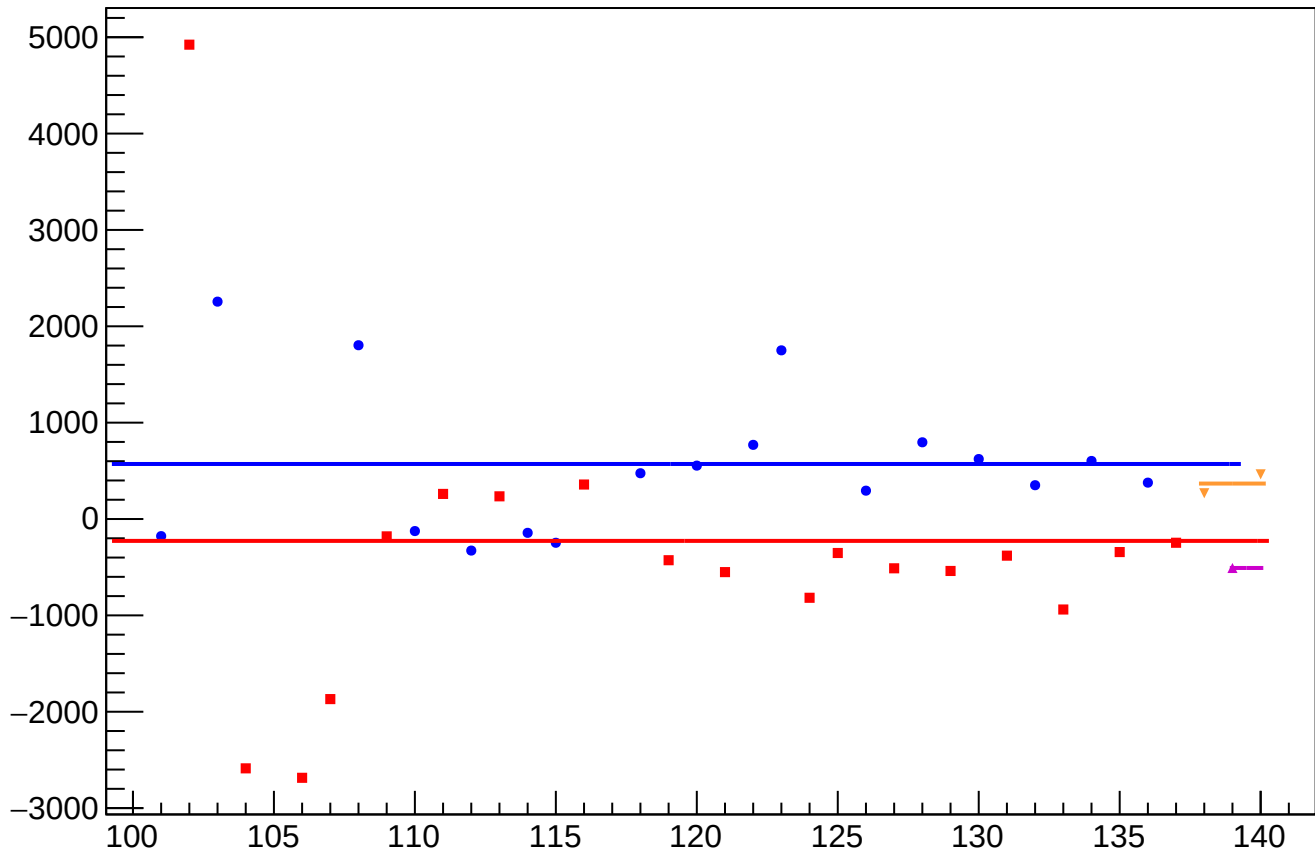
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

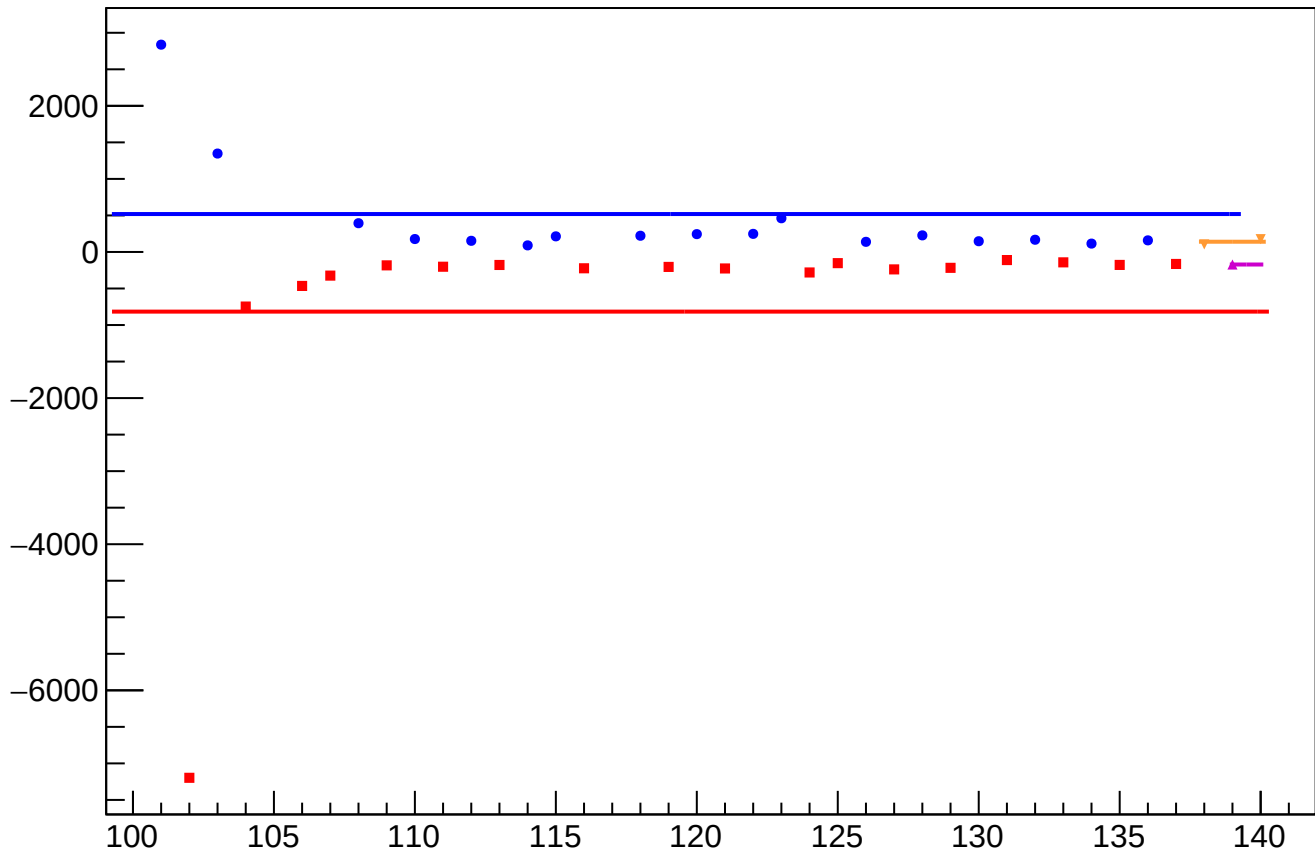
All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_atr1\_coil6\_mean vs Slug, Sign Corrected



Right In: 571.105 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 348676559810482432881112105158952615936.0/16  
 Left Out: 367.927 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 1543518086506704475620895429658411008.0/1  
 Right Out: -227.021 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 2178465037537899335461890002061994491904.0/17  
 Left In: -508.044 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 152.572 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 279604789179

dit\_atr1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 519.063+/-0.000

$\chi^2/\text{NDF}$ : 420187131793740379632134790837132328960.0/16

Left Out: 140.092+/-0.000

$\chi^2/\text{NDF}$ : 207845684733150523952962788688658432.0/1

Right Out: -816.445+/-0.000

$\chi^2/\text{NDF}$ : 2586841774338234136799977462346624794624.0/17

Left In: -171.695+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 35.301+/-0.000  $\chi^2/\text{NDF}$ : 5435492161375000.0/1

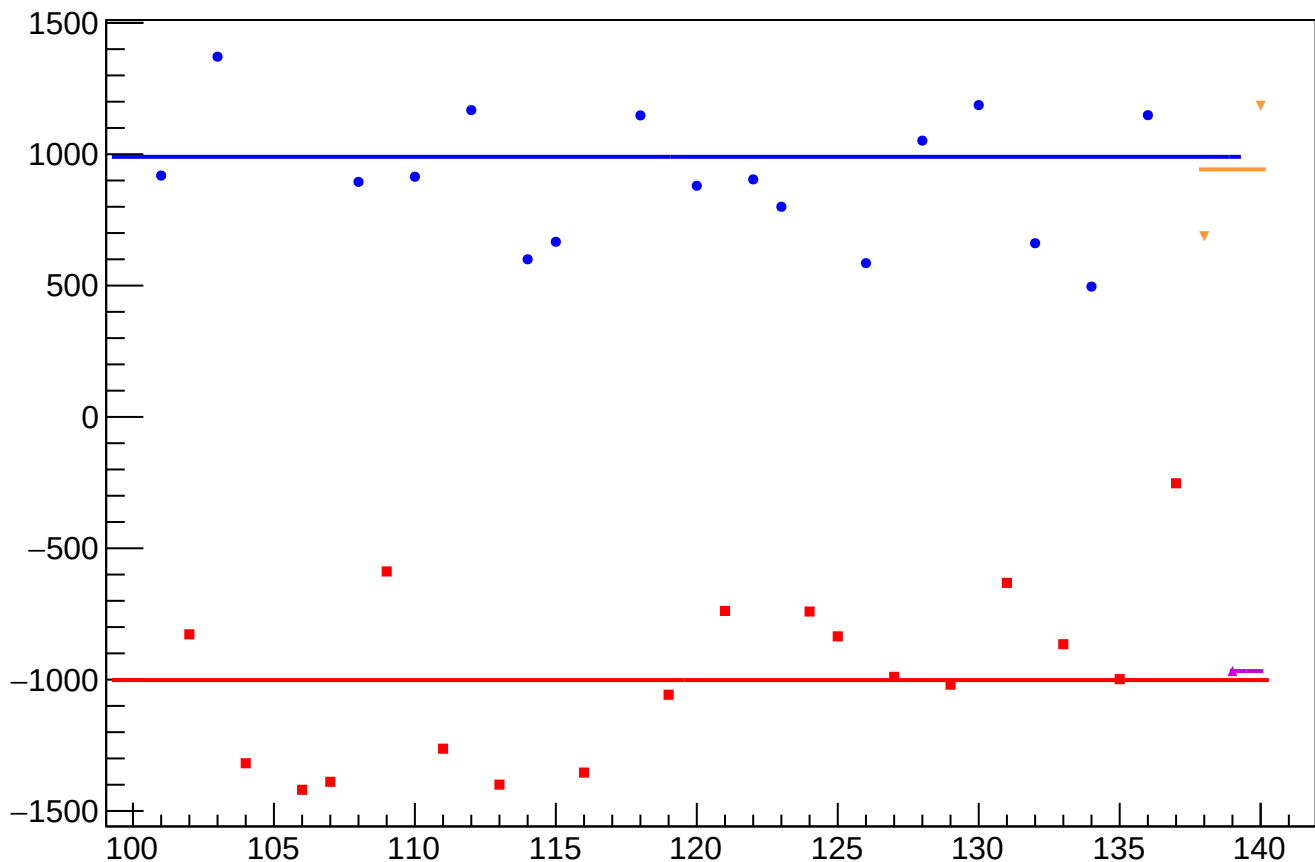
Right: -158.643+/-0.000  $\chi^2/\text{NDF}$ : 36351558307835.0/1

In: 446.868+/-0.000  $\chi^2/\text{NDF}$ : 45479662014484314.0/1

Out: -641.535+/-0.000  $\chi^2/\text{NDF}$ : 270667455679552.0/1

All: -130.316+/-0.000  $\chi^2/\text{NDF}$ : 36483323079.0/1

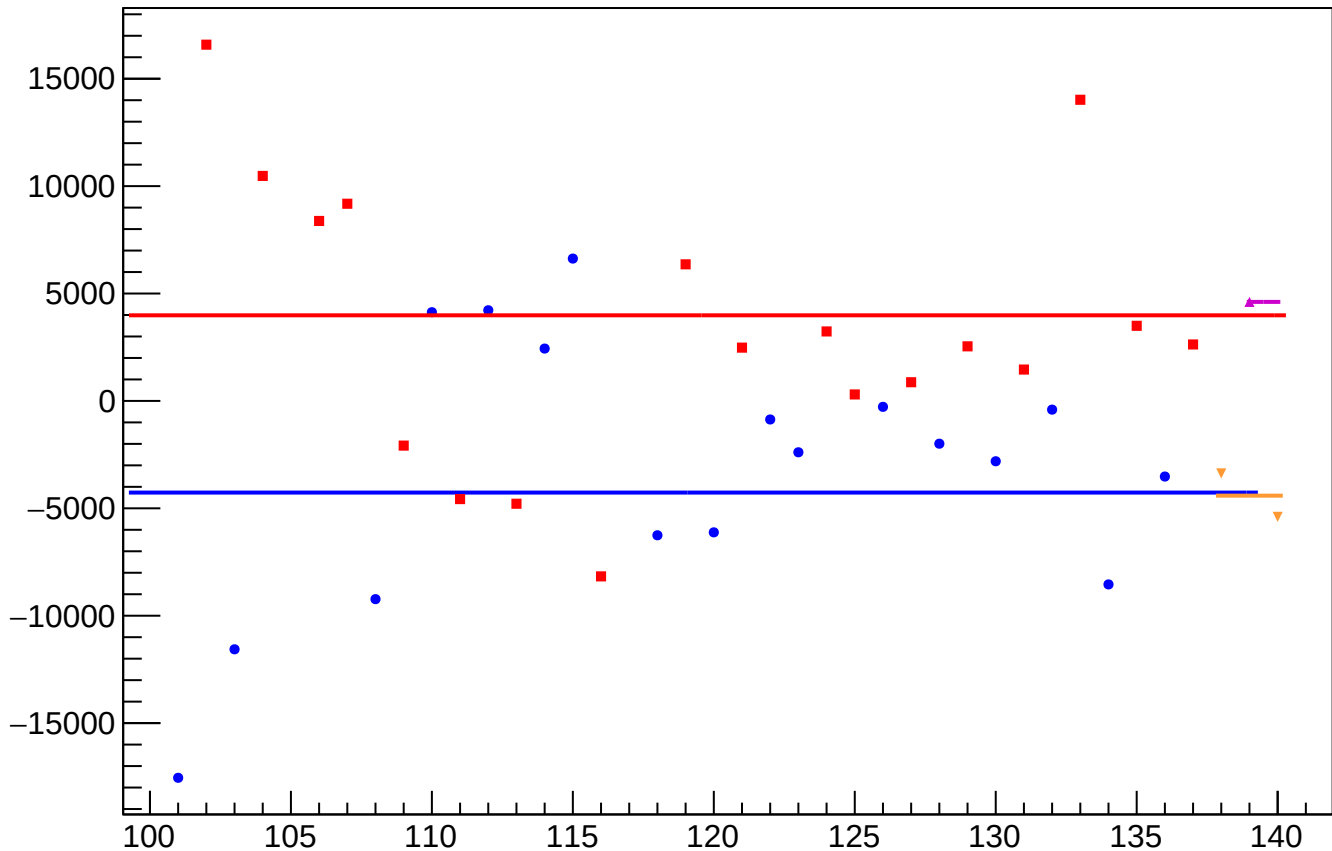
dit\_atr1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



|                              |                                                                   |                        |                                        |
|------------------------------|-------------------------------------------------------------------|------------------------|----------------------------------------|
| Right In: 990.104+/-0.000    | $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16 | Left: 300.485+/-0.000  | $\chi^2/\text{NDF}$ : 2059482247877670 |
| Left Out: 942.281+/-0.000    | $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1   | Right: -20.633+/-0.000 | $\chi^2/\text{NDF}$ : 149538797073234  |
| Right Out: -1001.684+/-0.000 | $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17 | In: 785.528+/-0.000    | $\chi^2/\text{NDF}$ : 3147923239013292 |
| Left In: -967.259+/-0.000    | $\chi^2/\text{NDF}$ : 0.0/0                                       | Out: -646.216+/-0.000  | $\chi^2/\text{NDF}$ : 565291523450371  |
|                              |                                                                   | All: 26.270+/-0.000    | $\chi^2/\text{NDF}$ : 1722557637007    |



# dit\_atr2\_coil6\_mean vs Slug, Sign Corrected



Right In: -4266.932+/-0.000

Left Out: -4410.408+/-0.000

Right Out: 3985.866+/-0.000

Left In: 4610.392+/-0.000

$\chi^2/\text{NDF}$ : 25403959108162984315551486343624496513024.0/16

$\chi^2/\text{NDF}$ : 163503924689319949808876171234021212160.0/1

$\chi^2/\text{NDF}$ : 31378292211366162940134938718336985333760.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -1378.521+/-0.000  $\chi^2/\text{NDF}$ : 45395115097165

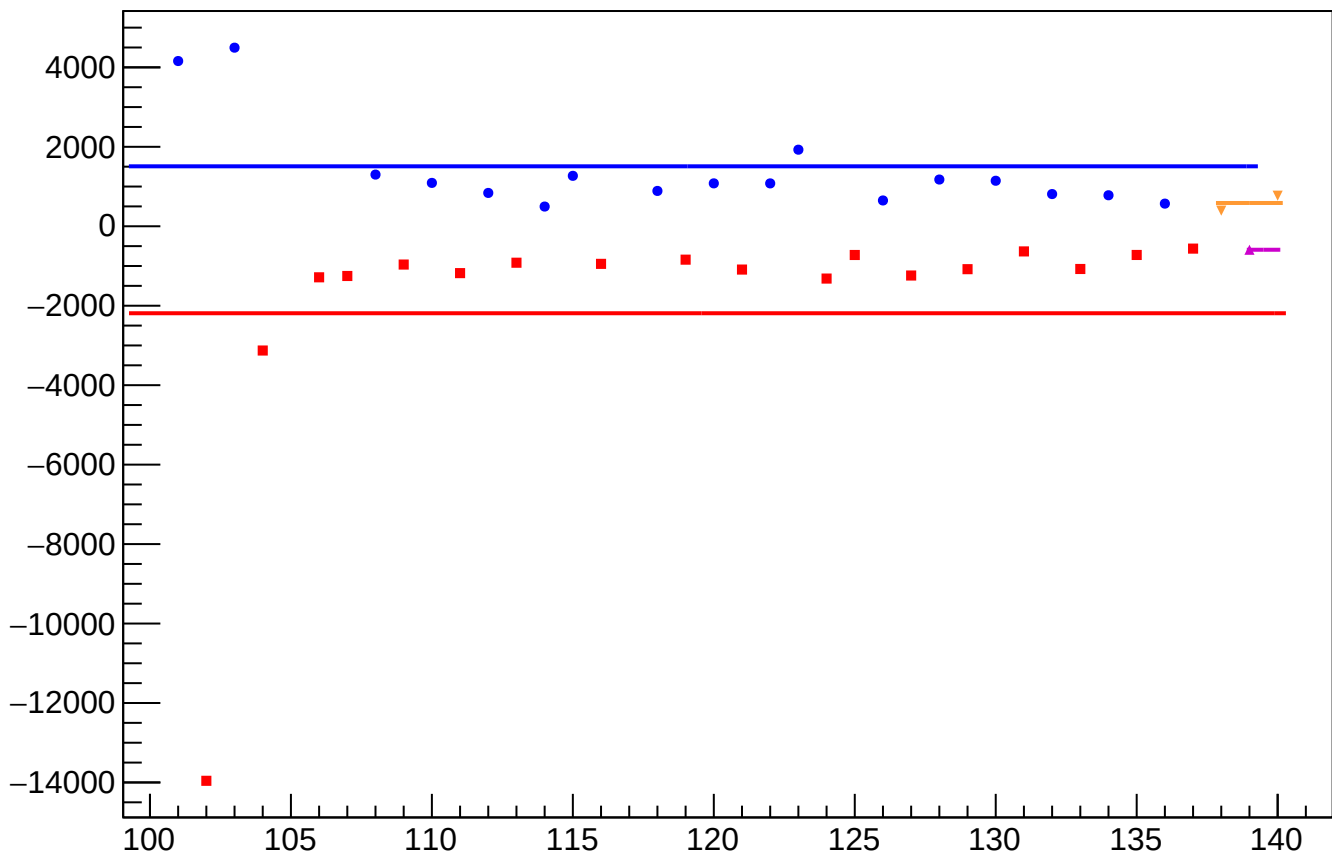
Right: -79.032+/-0.000  $\chi^2/\text{NDF}$ : 807682036229316

In: -3339.108+/-0.000  $\chi^2/\text{NDF}$ : 311201528518123

Out: 2450.548+/-0.000  $\chi^2/\text{NDF}$ : 407588299111835

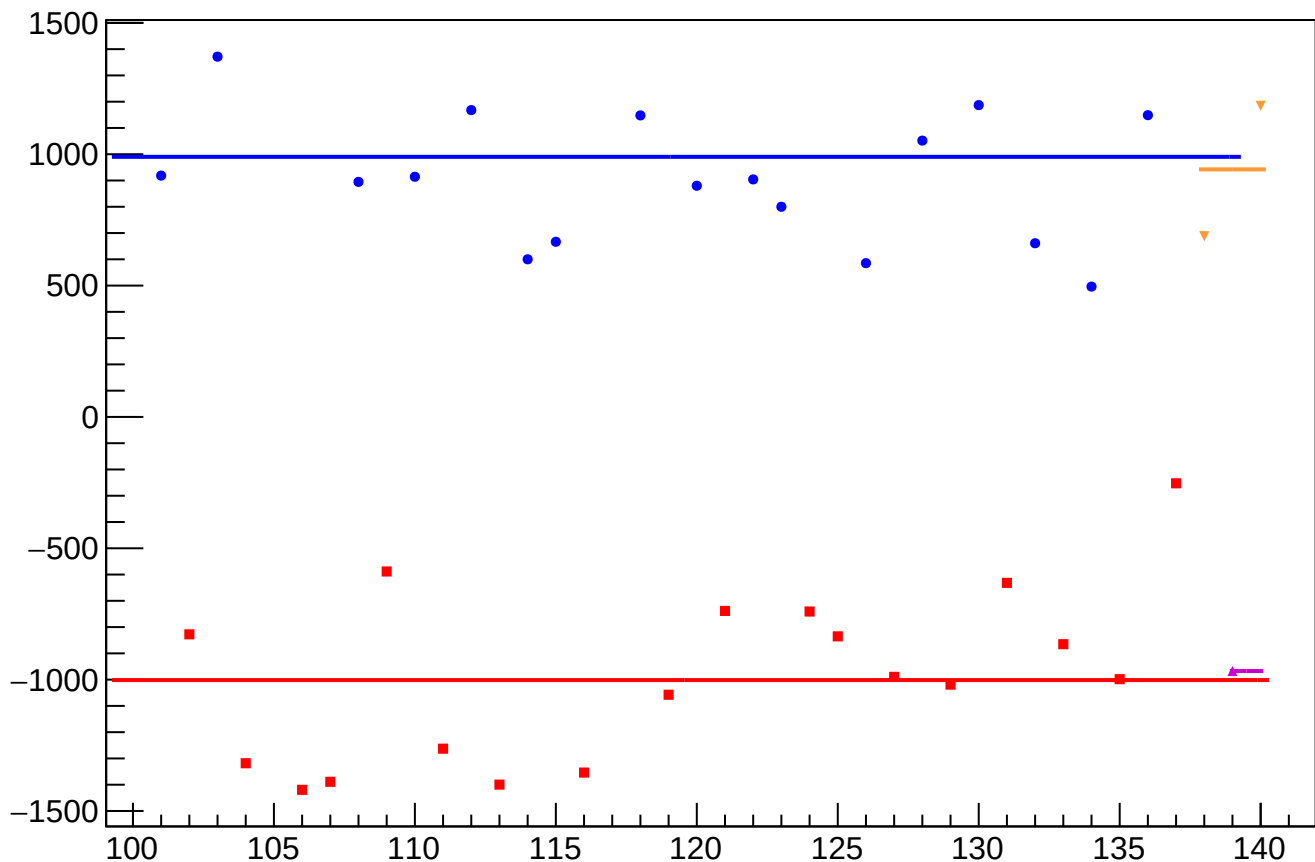
All: -268.836+/-0.000  $\chi^2/\text{NDF}$ : 85655242435

dit\_atr2\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 1509.121+/-0.000  $\chi^2/\text{NDF}$ : 1169972089698319936649693761541425332224.0/16  
 Left: 190.547+/-0.000  $\chi^2/\text{NDF}$ : 8019405949747093  
 Right: -367.651+/-0.000  $\chi^2/\text{NDF}$ : 14973630100099  
 Left Out: 586.250+/-0.000  $\chi^2/\text{NDF}$ : 5654000960482019642922816929026539520.0/1  
 In: 1289.615+/-0.000  $\chi^2/\text{NDF}$ : 1489911408427892  
 Right Out: -2189.301+/-0.000  $\chi^2/\text{NDF}$ : 8986539063289018670432989988372162281472.0/17  
 Out: -1681.772+/-0.000  $\chi^2/\text{NDF}$ : 99993942099905  
 Left In: -591.088+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -286.120+/-0.000  $\chi^2/\text{NDF}$ : 15117948164

dit\_atr2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000

$\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000

$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

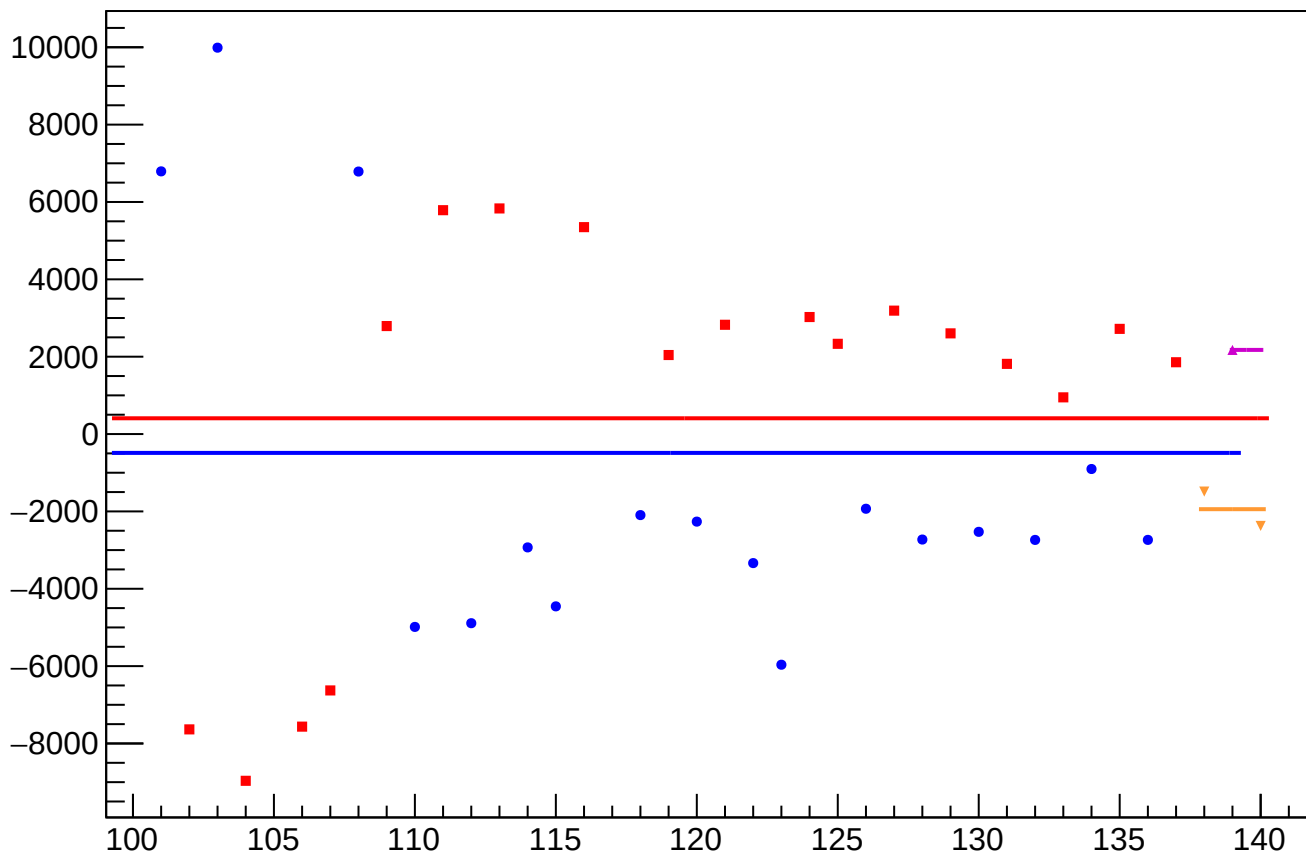
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

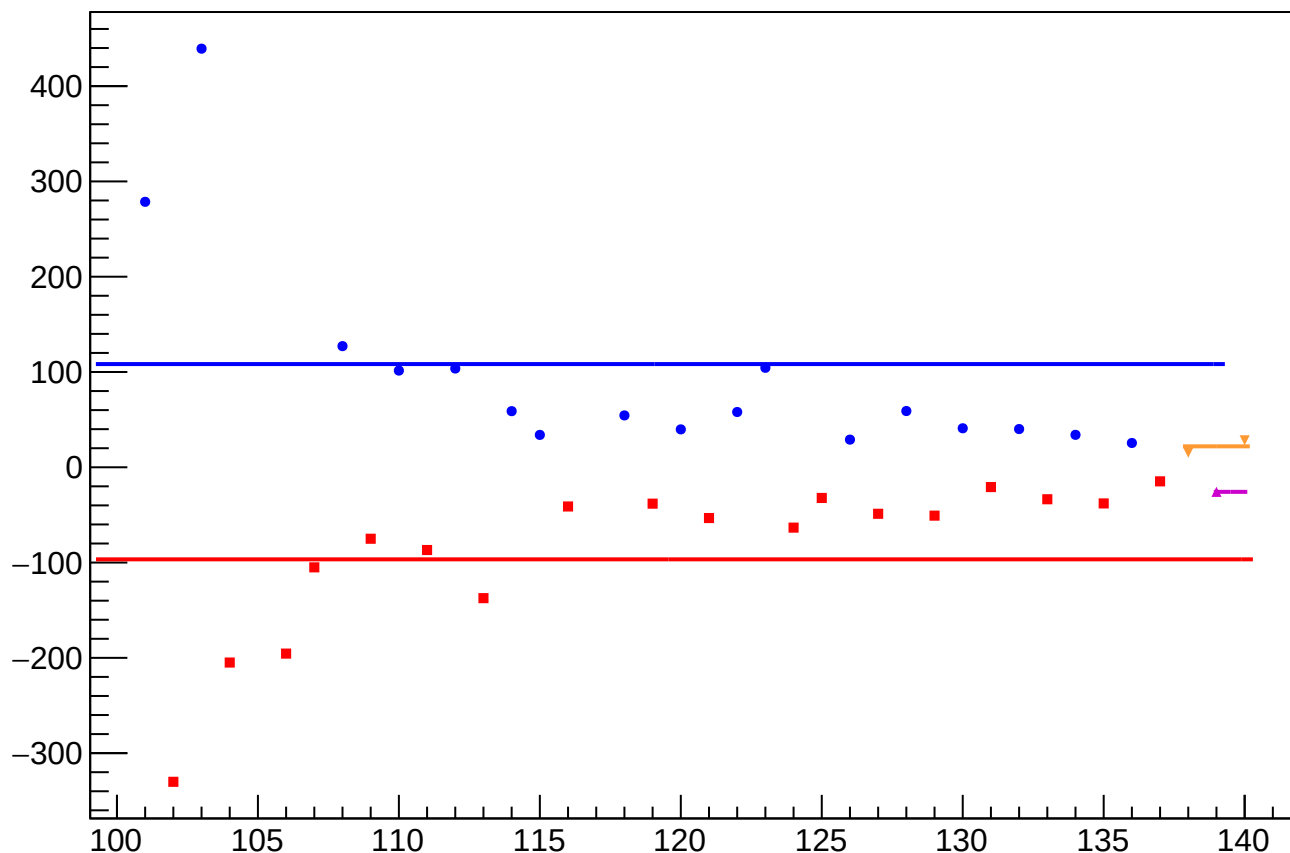
All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

dit\_sam1\_coil6\_mean vs Slug, Sign Corrected



Right In: -487.313+/-0.000  $\chi^2/\text{NDF}$ : 15477070218746492867636387900929916010496.0/16  
 Left Out: -1942.522+/-0.000  $\chi^2/\text{NDF}$ : 31536417593687219716761653727717228544.0/1  
 Right Out: 407.637+/-0.000  $\chi^2/\text{NDF}$ : 17046160329483633481850056075702270164992.0/17  
 Left In: 2175.498+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -109.893+/-0.000  $\chi^2/\text{NDF}$ : 33805556715

# dit\_sam1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 108.310+/-0.000  $\chi^2/\text{NDF}$ : 10240592139421231918957200369451532288.0/16

Left Out: 21.976+/-0.000  $\chi^2/\text{NDF}$ : 6704941412213938974298550176841728.0/1

Right Out: -96.612+/-0.000  $\chi^2/\text{NDF}$ : 5525873832888071130304914389362278400.0/17

Left In: -25.787+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 5.923+/-0.000  $\chi^2/\text{NDF}$ : 129385556074314190

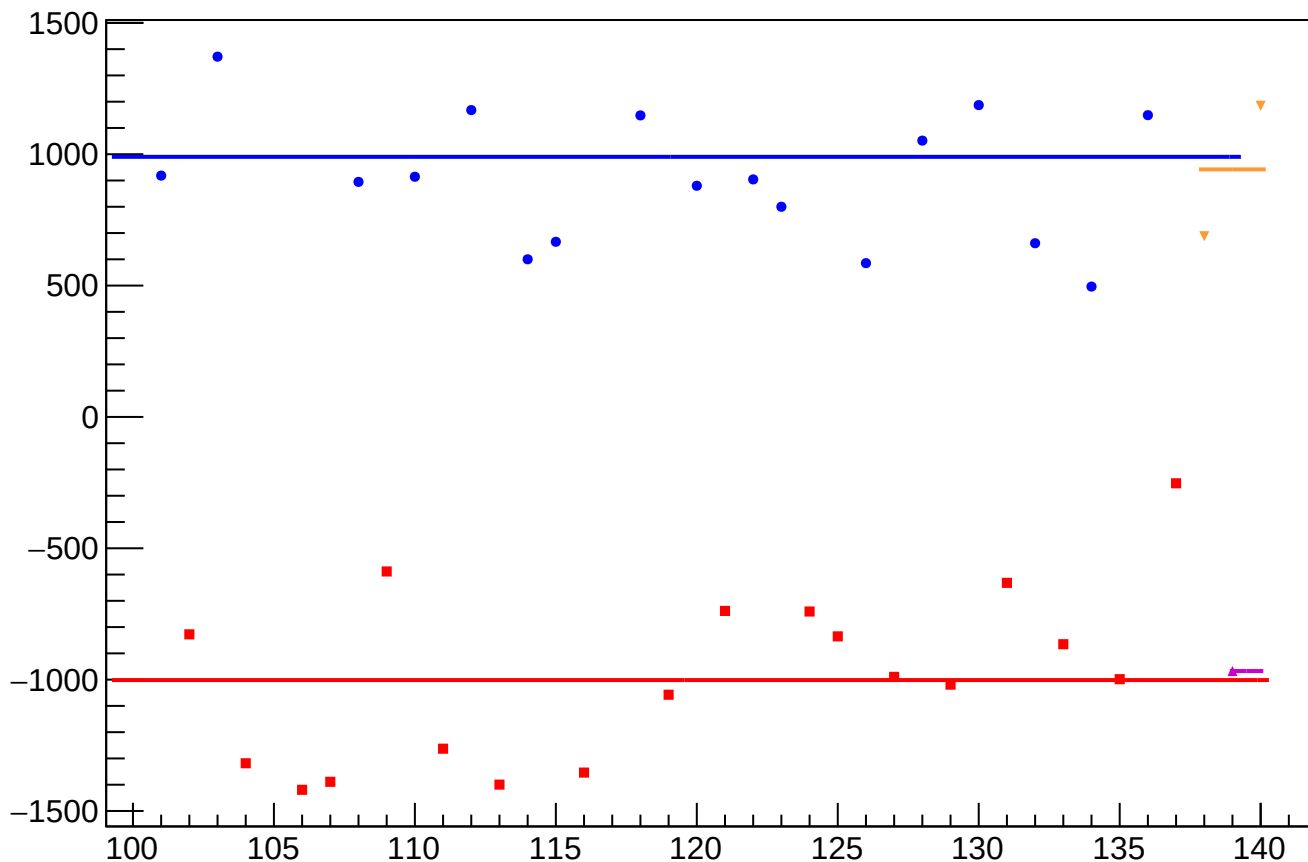
Right: 4.322+/-0.000  $\chi^2/\text{NDF}$ : 30555207658699099

In: 94.295+/-0.000  $\chi^2/\text{NDF}$ : 11544906583533323

Out: -74.927+/-0.000  $\chi^2/\text{NDF}$ : 7371228523946164

All: 4.556+/-0.000  $\chi^2/\text{NDF}$ : 30685120639135

dit\_sam1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000

$\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000

$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

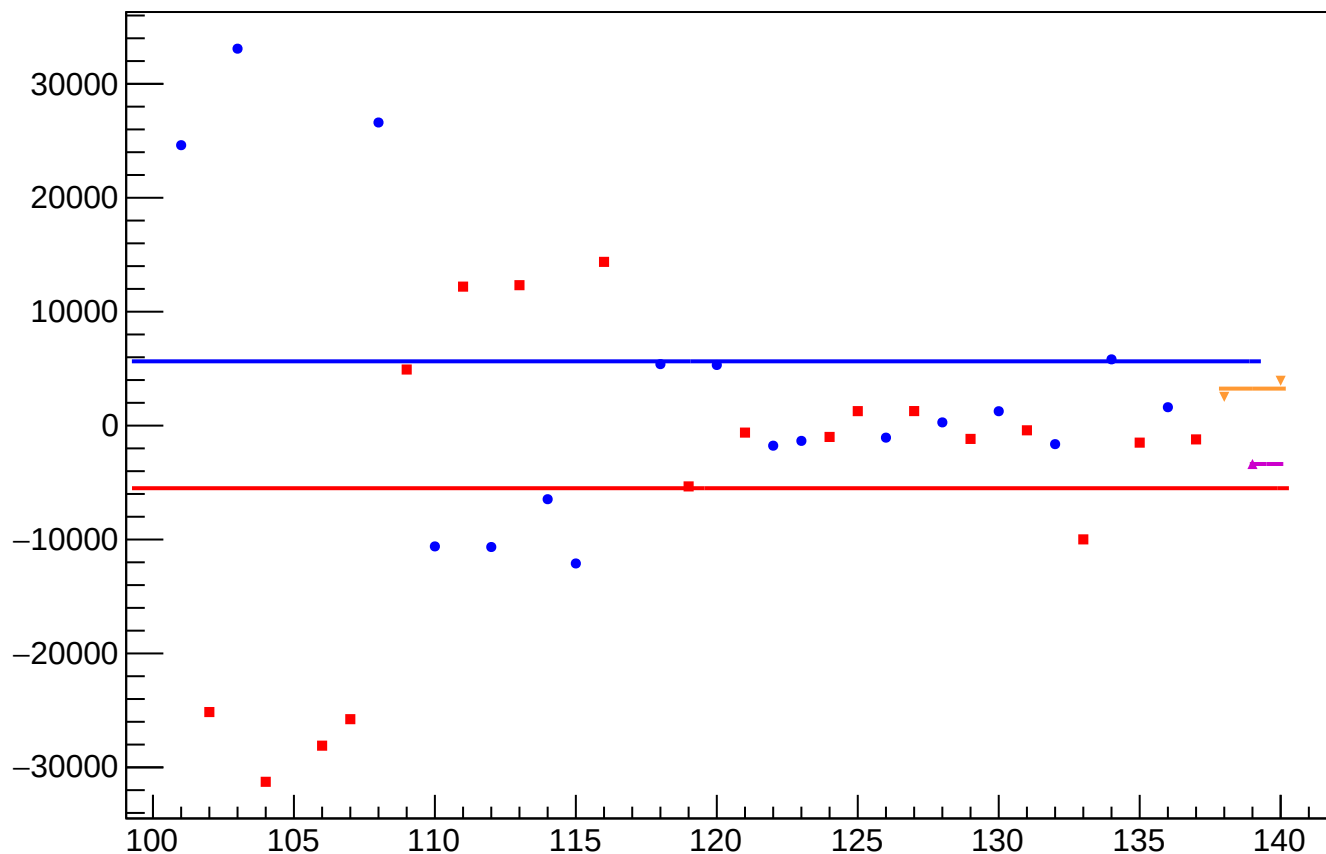
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

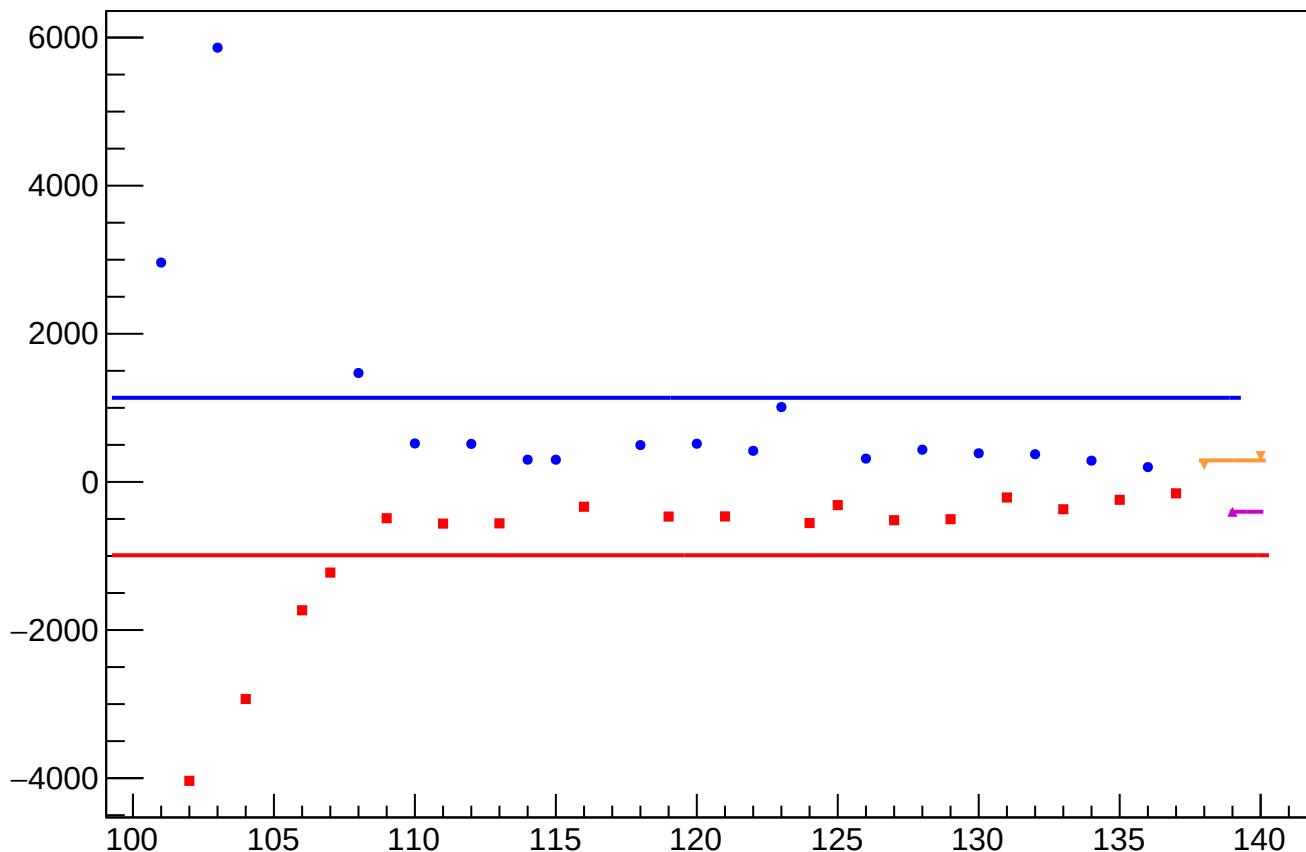
All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

dit\_sam2\_coil6\_mean vs Slug, Sign Corrected



Right In: 5643.213+/-0.000  $\chi^2/\text{NDF}$ : 120843746110128548402153277612724047577088.0/16  
 Left Out: 3247.695+/-0.000  $\chi^2/\text{NDF}$ : 79630993927878617977528254589493575680.0/1  
 Right Out: -5495.452+/-0.000  $\chi^2/\text{NDF}$ : 139584988563962510194230278268369577705472.0/17  
 Left In: -3369.557+/-0.000  $\chi^2/\text{NDF}$ : 16750407.4/0  
 All: 141.720+/-0.000  $\chi^2/\text{NDF}$ : 306776515134

# dit\_sam2\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 1135.811+/-0.000

$\chi^2/\text{NDF}$ : 1824005819812756990146951558918737756160.0/16

Left Out: 290.516+/-0.000

$\chi^2/\text{NDF}$ : 552594039177112461801472774713114624.0/1

Right Out: -990.520+/-0.000

$\chi^2/\text{NDF}$ : 932180516409120093653543317868461948928.0/17

Left In: -402.594+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 57.562+/-0.000  $\chi^2/\text{NDF}$ : 26386636817800785

Right: 56.800+/-0.000  $\chi^2/\text{NDF}$ : 4348454456558688

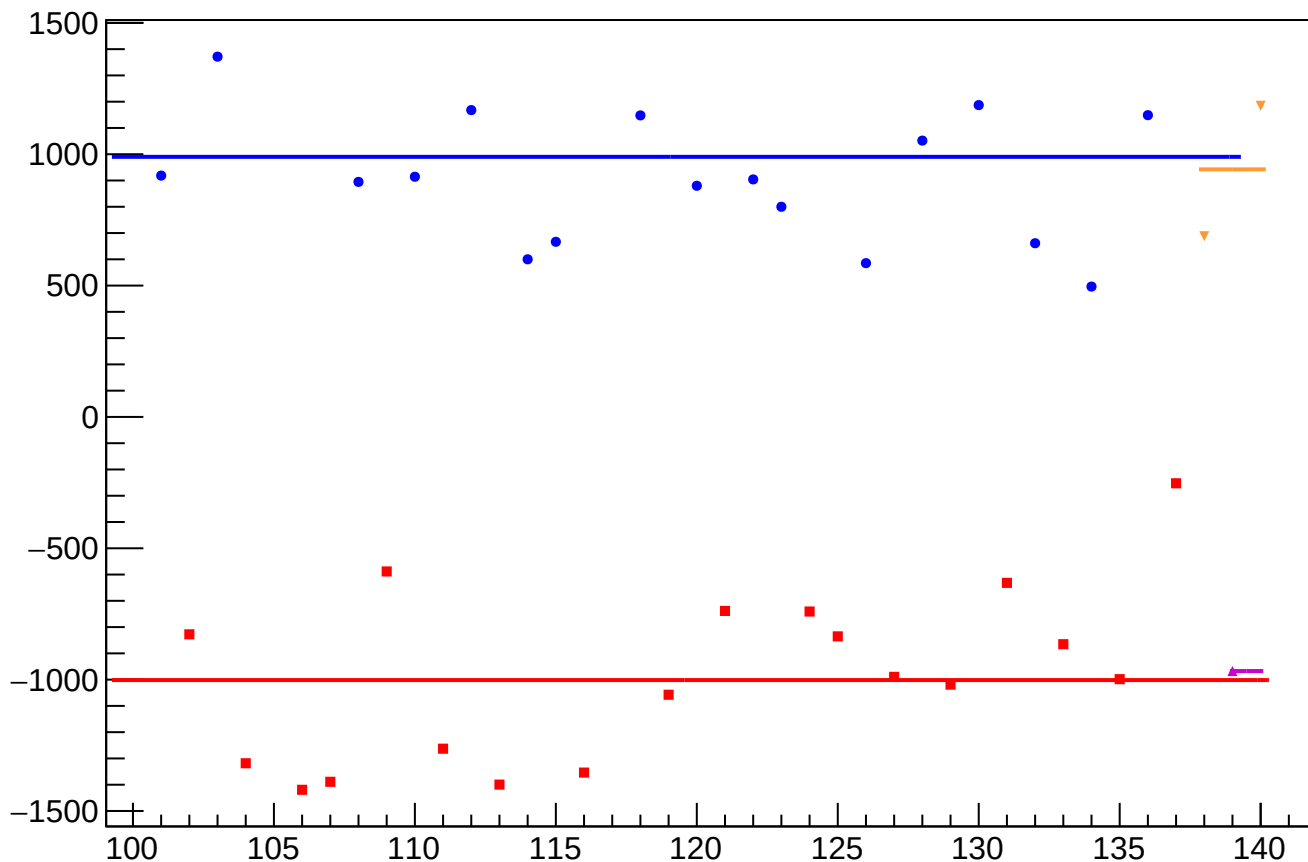
In: 975.023+/-0.000  $\chi^2/\text{NDF}$ : 19956717081938252

Out: -756.273+/-0.000  $\chi^2/\text{NDF}$ : 114728915908490

All: 56.911+/-0.000  $\chi^2/\text{NDF}$ : 4374841212987



dit\_sam2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000

$\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000

$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

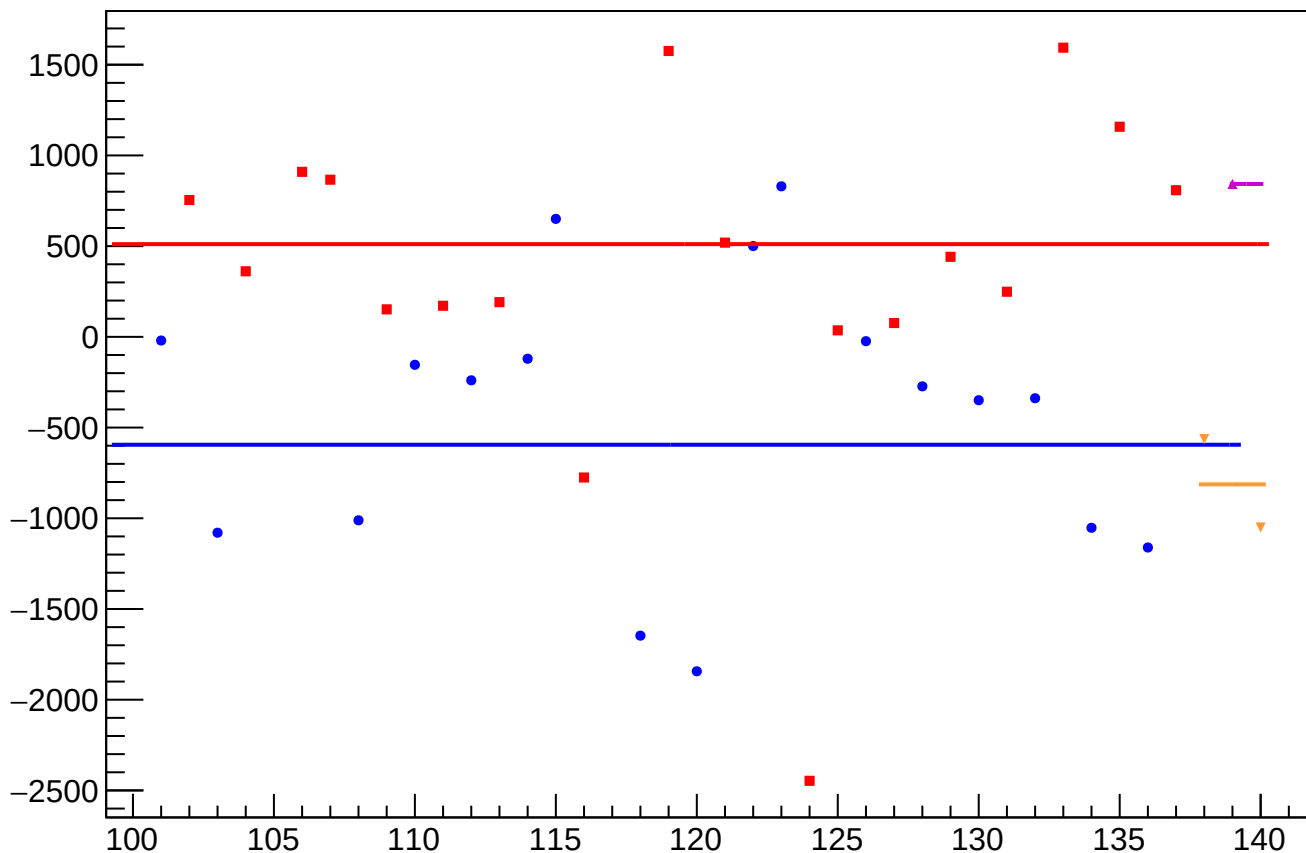
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_sam3\_coil6\_mean vs Slug, Sign Corrected



Right In: -594.642+/-0.000

Left Out: -813.191+/-0.000

Right Out: 510.991+/-0.000

Left In: 842.616+/-0.000

$\chi^2/\text{NDF}$ : 301185427986157798818990027839559958528.0/16

$\chi^2/\text{NDF}$ : 9494461877866020157522171447786602496.0/1

$\chi^2/\text{NDF}$ : 345692362052681149269006983787007967232.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -256.675+/-0.000

Right: -33.586+/-0.000

In: -444.425+/-0.000

Out: 268.855+/-0.000

$\chi^2/\text{NDF}$ : 156931702262985

$\chi^2/\text{NDF}$ : 107738109865378

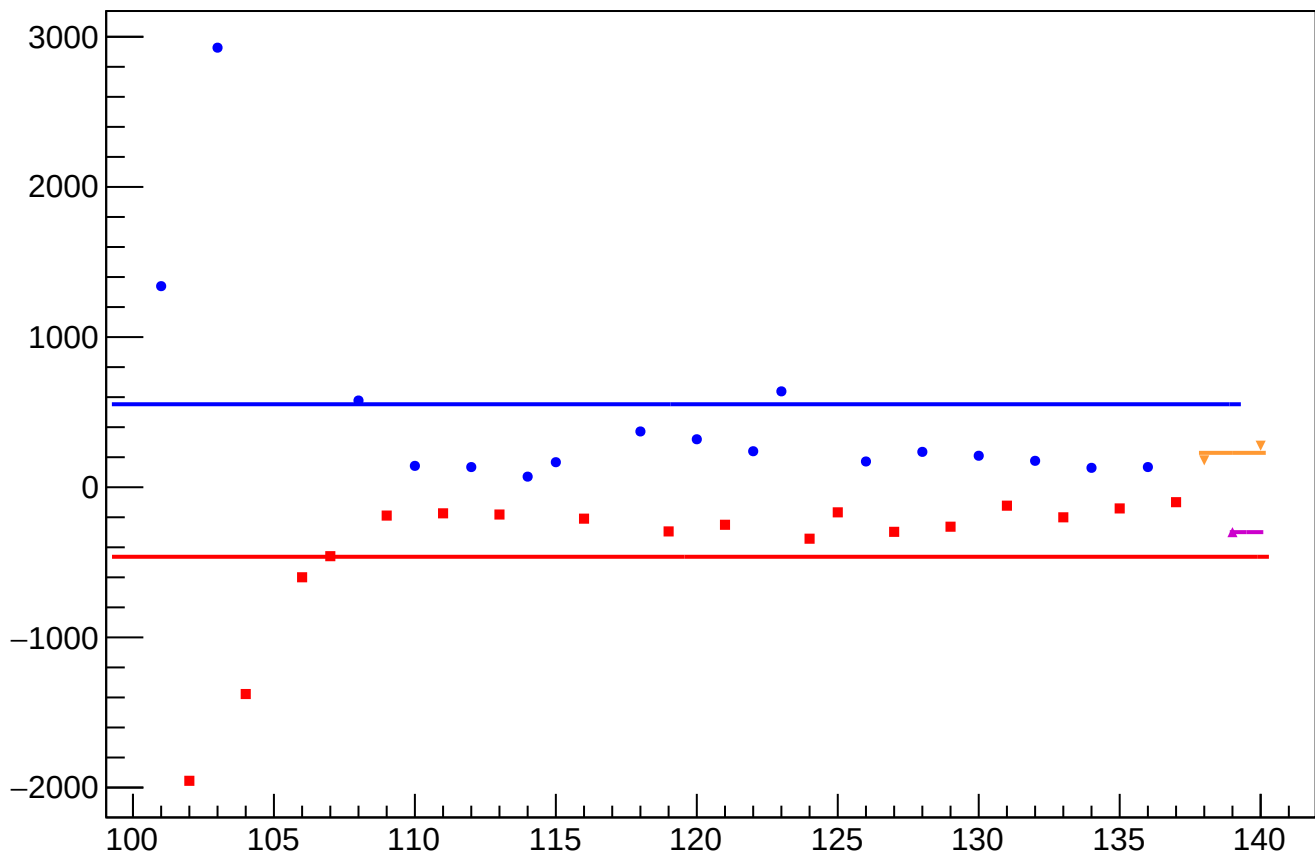
$\chi^2/\text{NDF}$ : 4510199630068975

$\chi^2/\text{NDF}$ : 5844389858927894

All: -66.171+/-0.000

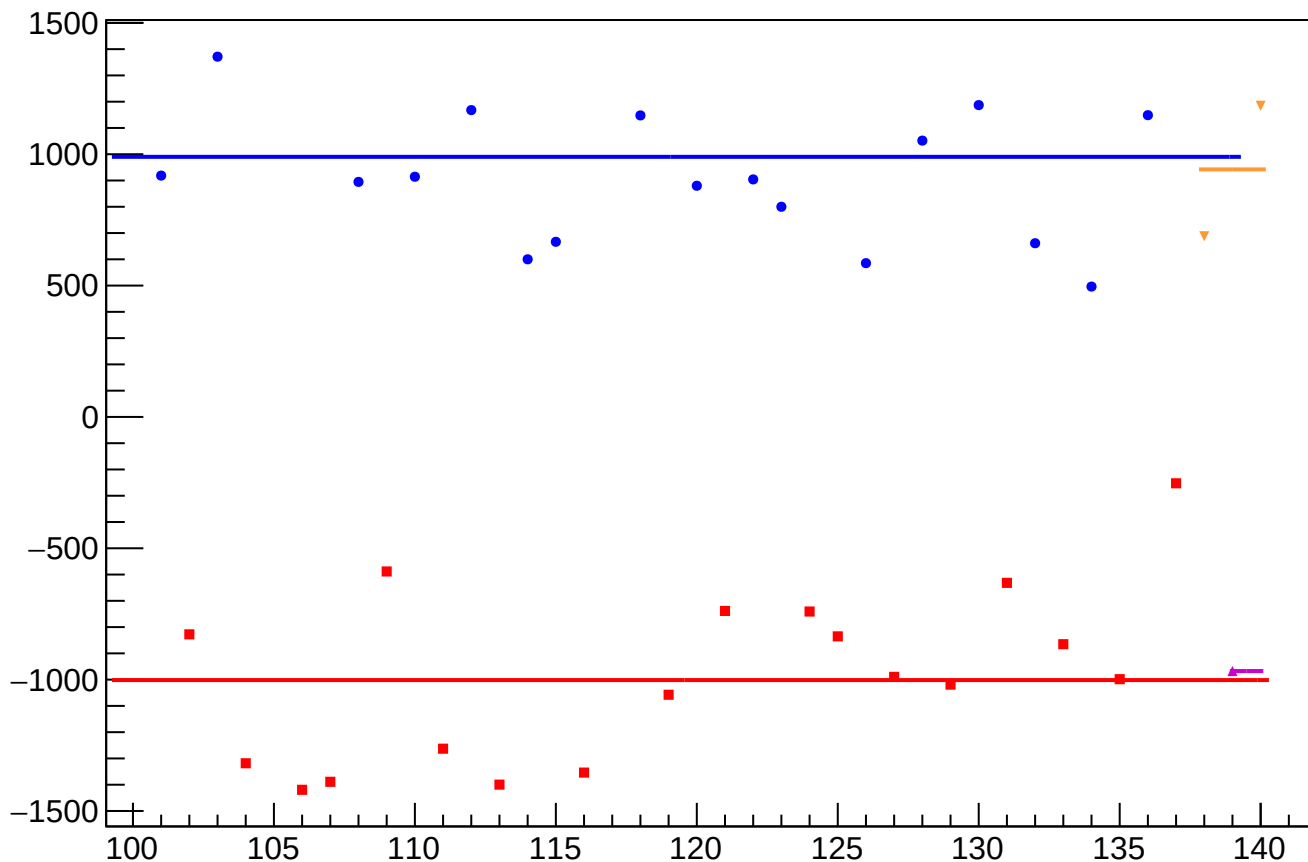
$\chi^2/\text{NDF}$ : 124455517249

dit\_sam3\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 552.756+/-0.000  $\chi^2/\text{NDF}$ : 438588904166490483585471990950715719680.0/16  
 Left Out: 229.109+/-0.000  $\chi^2/\text{NDF}$ : 380707970266539949685340929106378752.0/1  
 Right Out: -463.044+/-0.000  $\chi^2/\text{NDF}$ : 209305475229629435748794855521804877824.0/17  
 Left In: -298.989+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 39.379+/-0.000  $\chi^2/\text{NDF}$ : 1026703198813

dit\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

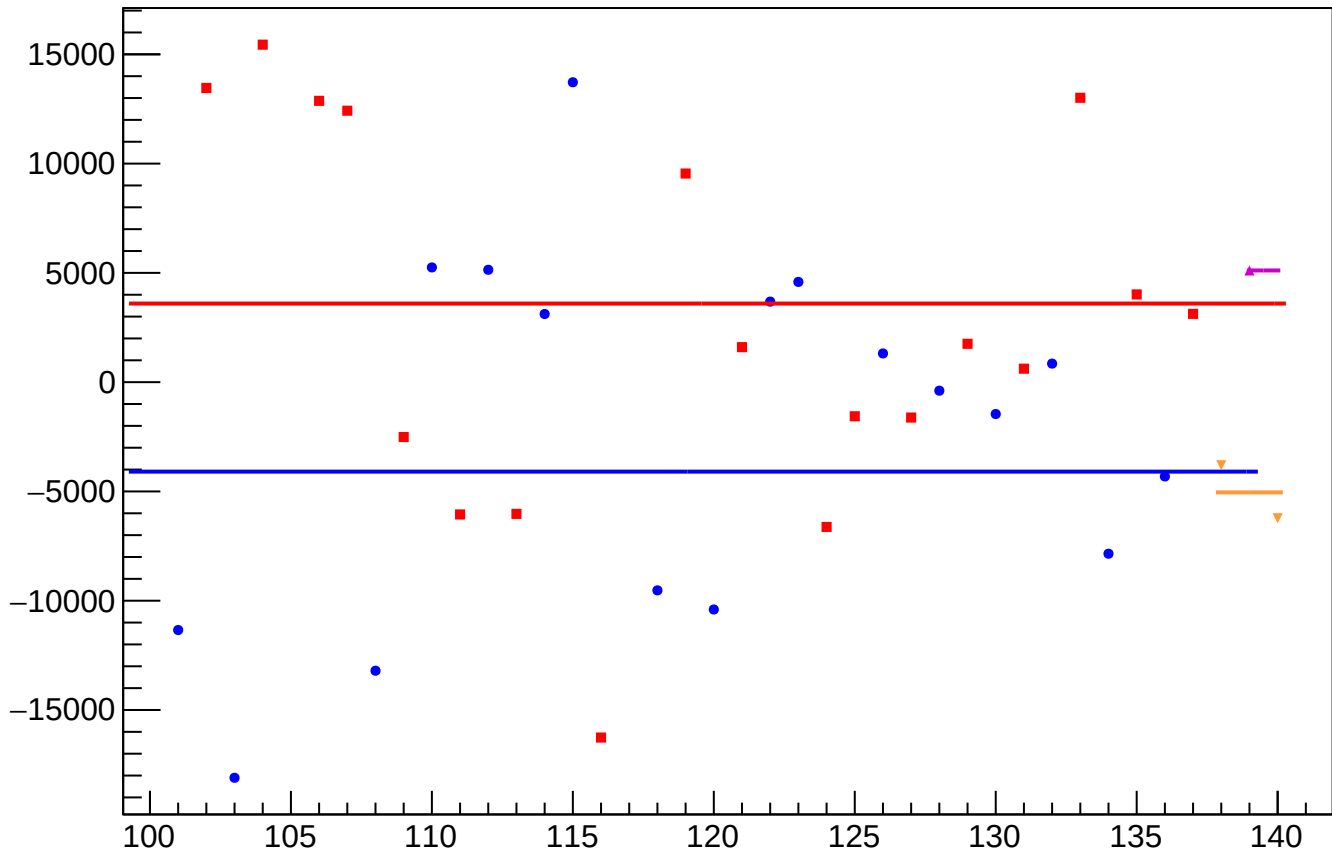
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

dit\_sam4\_coil6\_mean vs Slug, Sign Corrected



Right In: -4093.788+/-0.000

Left Out: -5043.743+/-0.000

Right Out: 3597.313+/-0.000

Left In: 5110.790+/-0.000

$\chi^2/\text{NDF}$ : 38878868284472308051396307871868318121984.0/16

$\chi^2/\text{NDF}$ : 234892926553985609172025377723948990464.0/1

$\chi^2/\text{NDF}$ : 48617231317968827835072936626093341802496.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -1630.809+/-0.000

Right: -190.923+/-0.000

In: -3131.761+/-0.000

Out: 2017.234+/-0.000

$\chi^2/\text{NDF}$ : 57799732462126

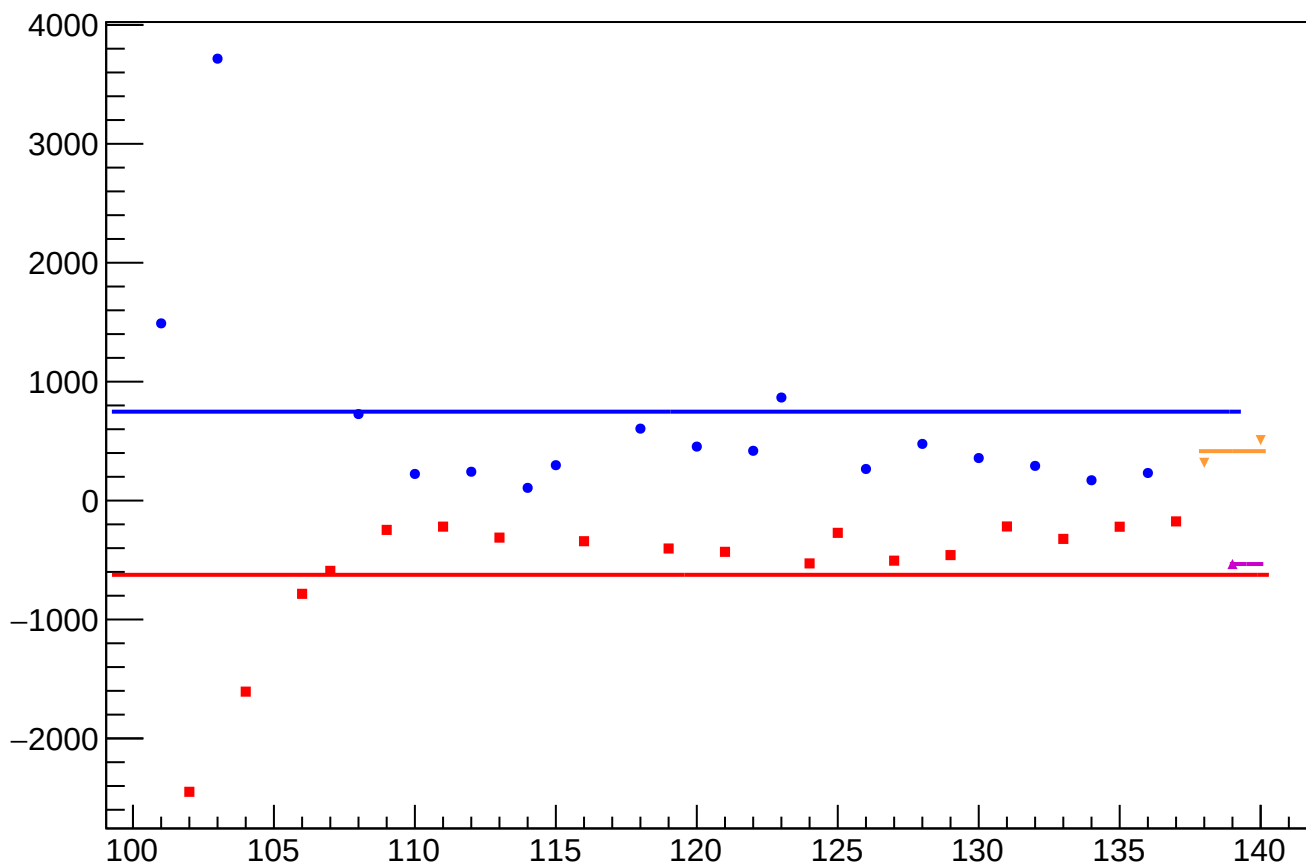
$\chi^2/\text{NDF}$ : 10832812445866

$\chi^2/\text{NDF}$ : 450242730810224

$\chi^2/\text{NDF}$ : 586144114696988

All: -401.233+/-0.000  $\chi^2/\text{NDF}$ : 11453477580

dit\_sam4\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 747.700+/-0.000  $\chi^2/\text{NDF}$ : 650932937994369219214435777270989717504.0/16

Left Out: 415.658+/-0.000  $\chi^2/\text{NDF}$ : 1459971262407781008003333837094387712.0/1

Right Out: -624.223+/-0.000  $\chi^2/\text{NDF}$ : 296243096292052743688943276873819881472.0/17

Left In: -533.427+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 96.671+/-0.000  $\chi^2/\text{NDF}$ : 4989929325076796

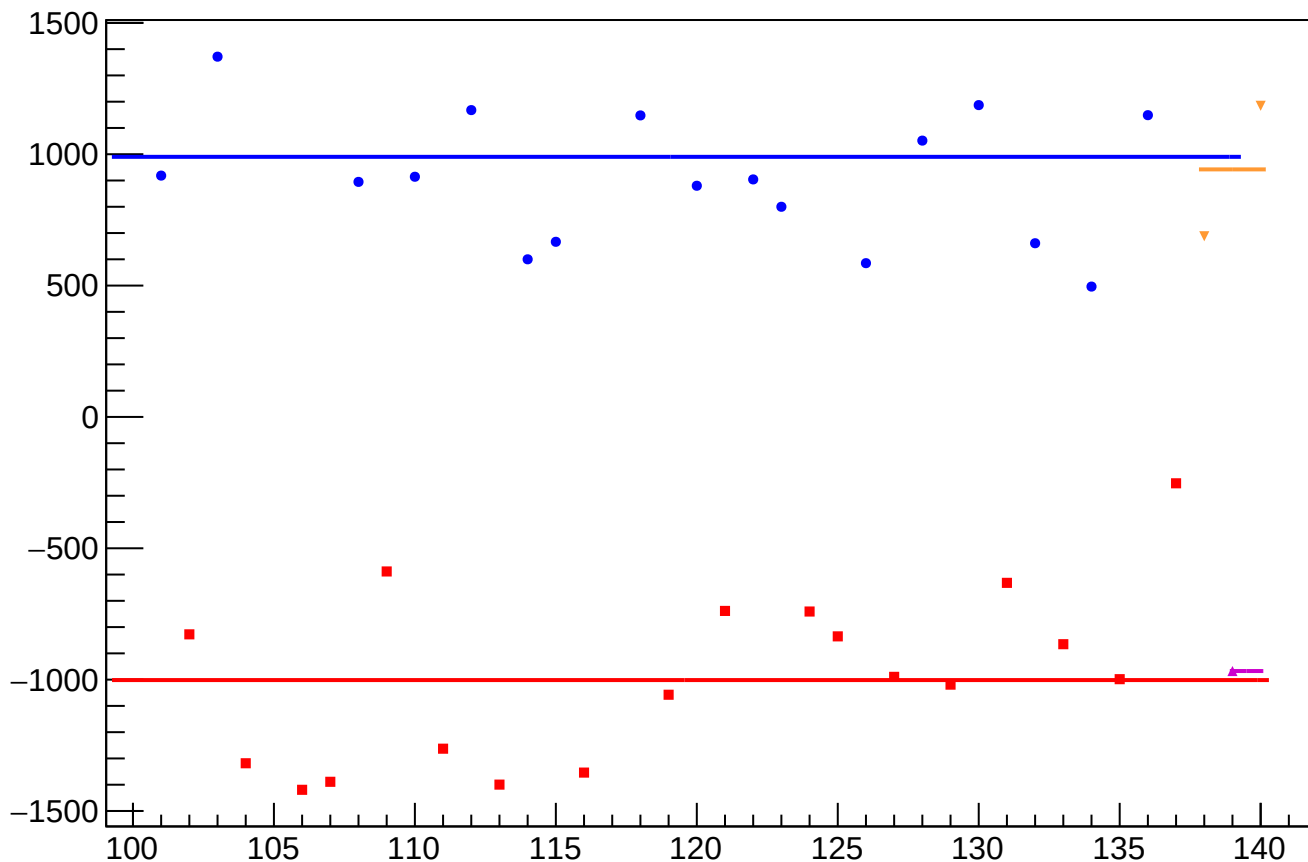
Right: 51.514+/-0.000  $\chi^2/\text{NDF}$ : 1610024298269764

In: 613.801+/-0.000  $\chi^2/\text{NDF}$ : 76998223224053683

Out: -434.074+/-0.000  $\chi^2/\text{NDF}$ : 439082334004256

All: 58.110+/-0.000  $\chi^2/\text{NDF}$ : 1660343241361

dit\_sam4\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

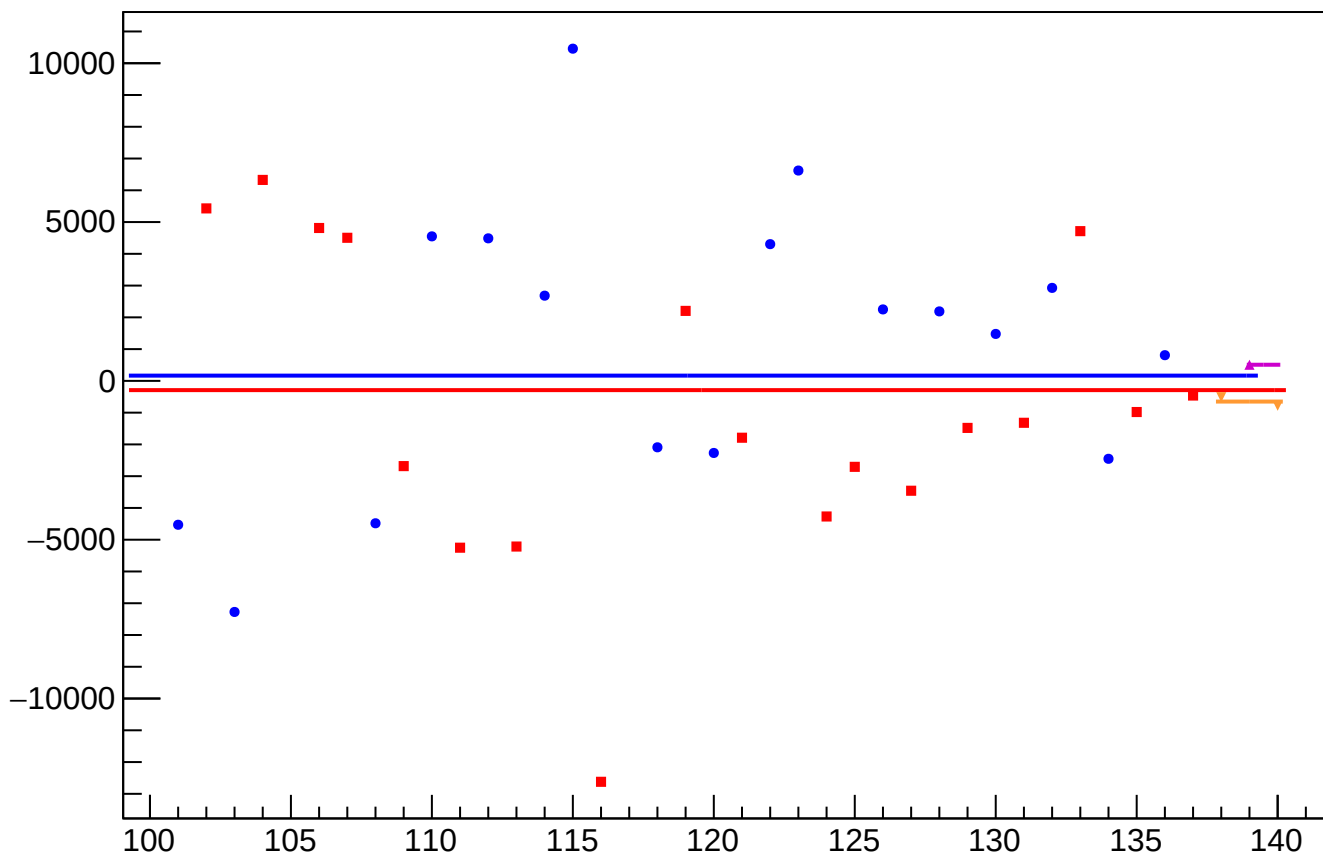
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

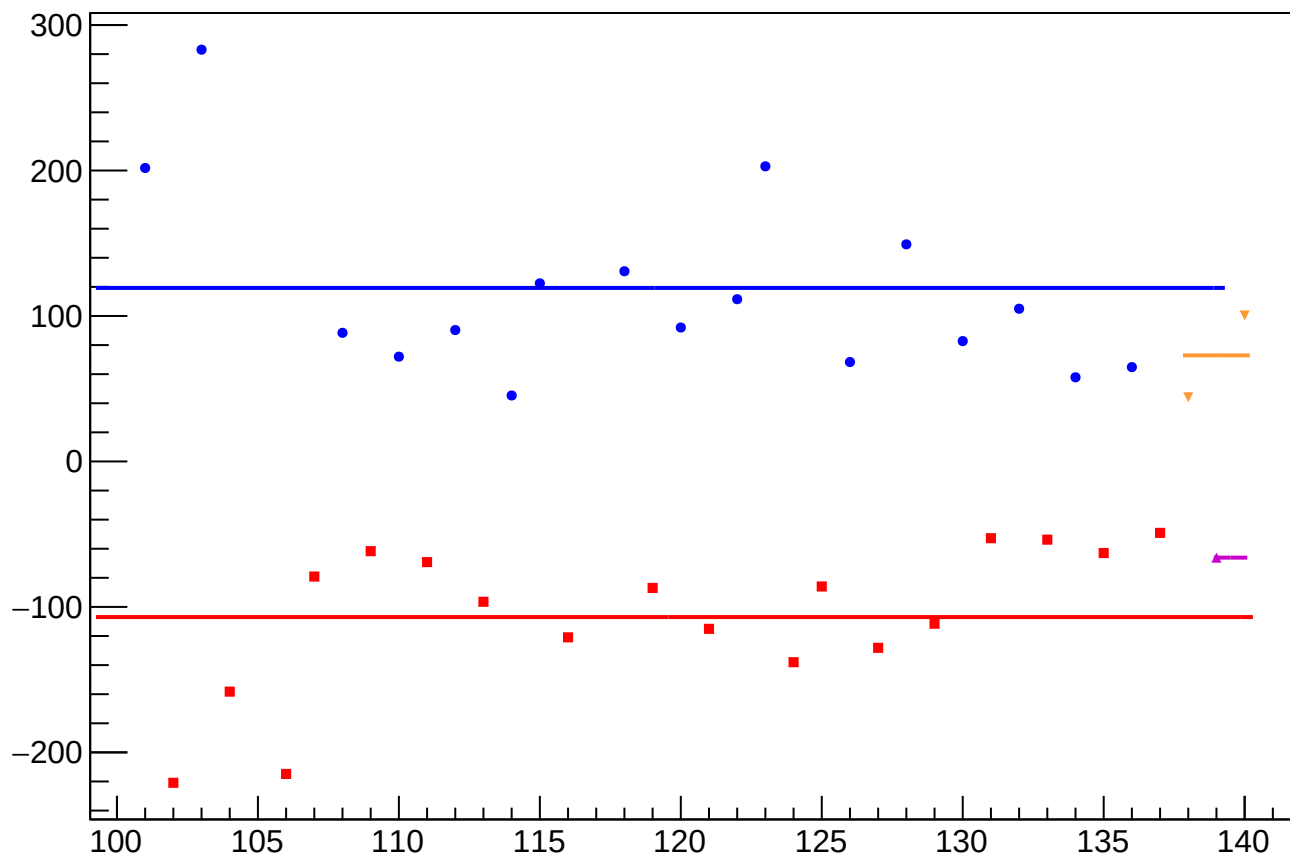
dit\_sam5\_coil6\_mean vs Slug, Sign Corrected



Right In: 165.547+/-0.000  $\chi^2/\text{NDF}$ : 10658450336306933403777351351390508679168.0/16  
 Left Out: -651.148+/-0.000  $\chi^2/\text{NDF}$ : 2940609024870255876726982542547222528.0/1  
 Right Out: -291.015+/-0.000  $\chi^2/\text{NDF}$ : 14672571981967891714112032575724497928192.0/17  
 Left In: 508.052+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -94.677+/-0.000  $\chi^2/\text{NDF}$ : 254874917841



dit\_sam5\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 119.288+/-0.000  $\chi^2/\text{NDF}$ : 2842654207411905514935251828991852544.0/16

Left Out: 72.920+/-0.000  $\chi^2/\text{NDF}$ : 126631691875149252245502329467437056.0/1

Right Out: -106.986+/-0.000  $\chi^2/\text{NDF}$ : 1915046958698396013008025410372370432.0/17

Left In: -66.113+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 26.191+/-0.000  $\chi^2/\text{NDF}$ : 11661353550166493

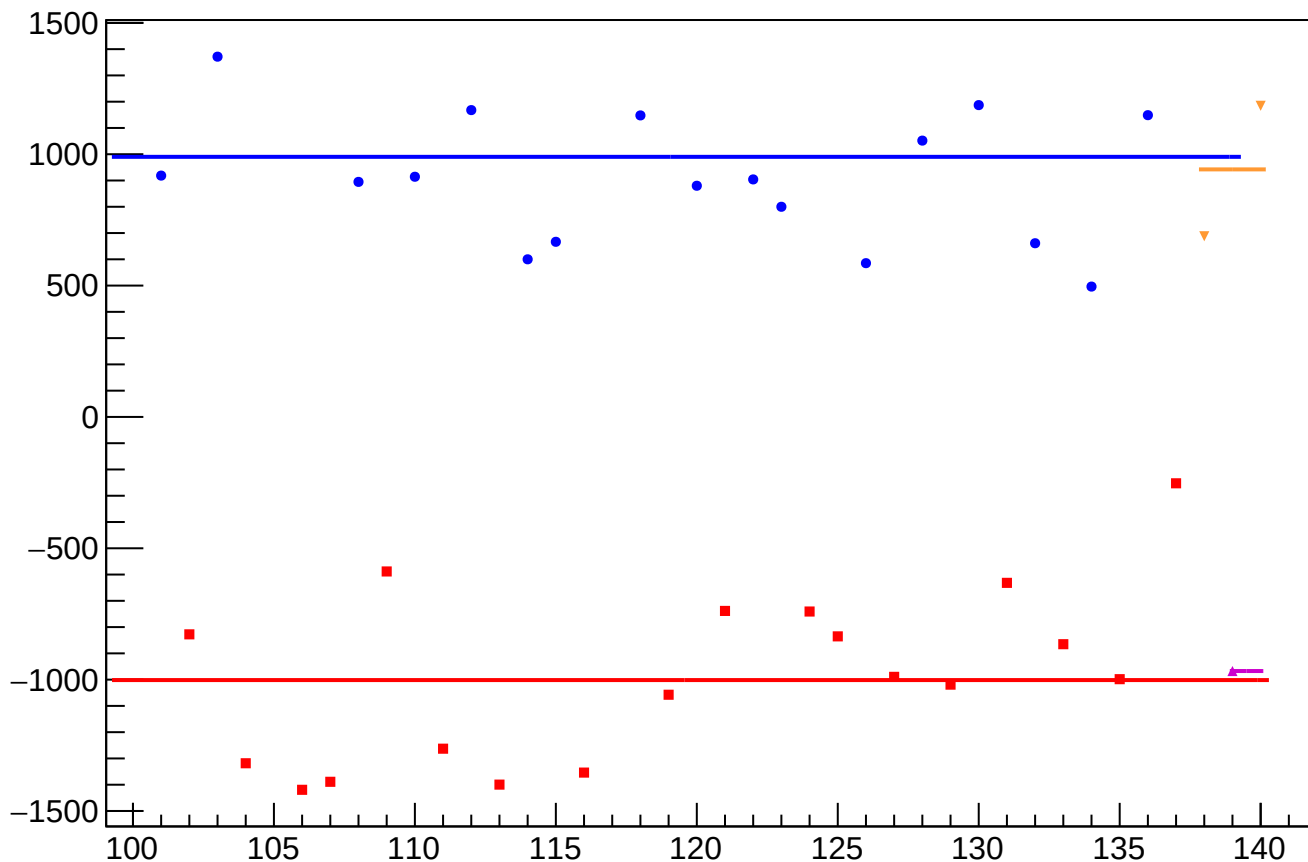
Right: 4.464+/-0.000  $\chi^2/\text{NDF}$ : 22788862370456128

In: 99.910+/-0.000  $\chi^2/\text{NDF}$ : 533590809053438125

Out: -74.089+/-0.000  $\chi^2/\text{NDF}$ : 6273343866263234

All: 7.638+/-0.000  $\chi^2/\text{NDF}$ : 24052144306288

dit\_sam5\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

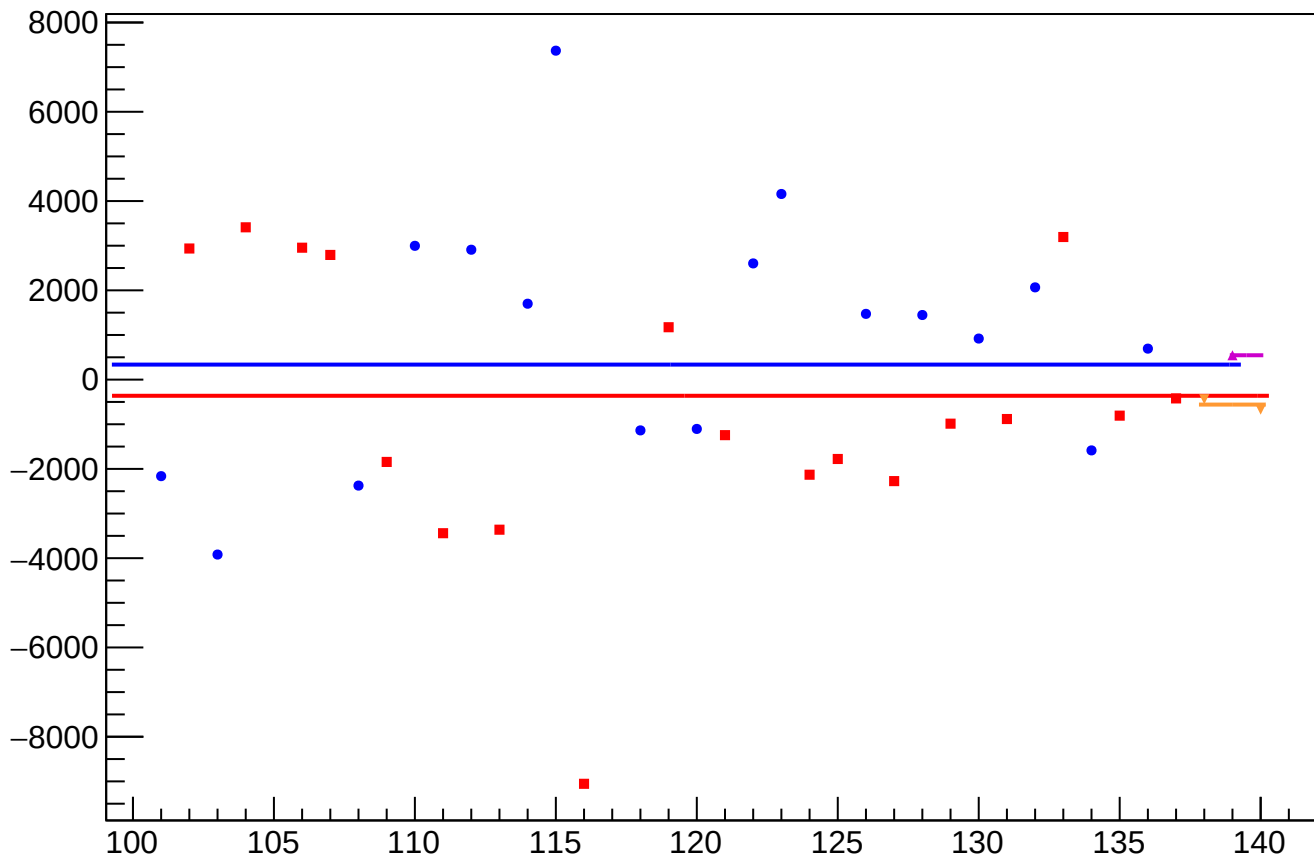
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

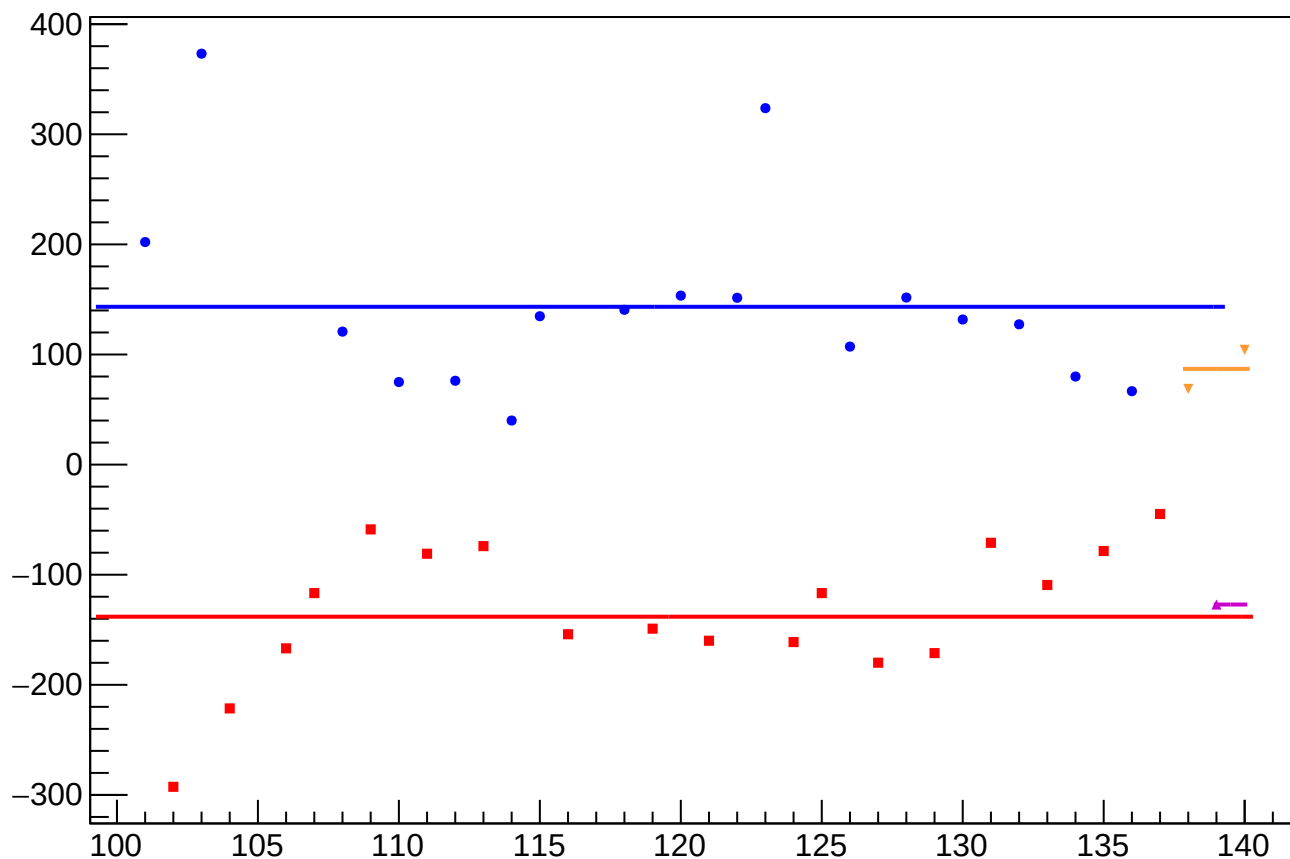
All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

dit\_sam6\_coil6\_mean vs Slug, Sign Corrected



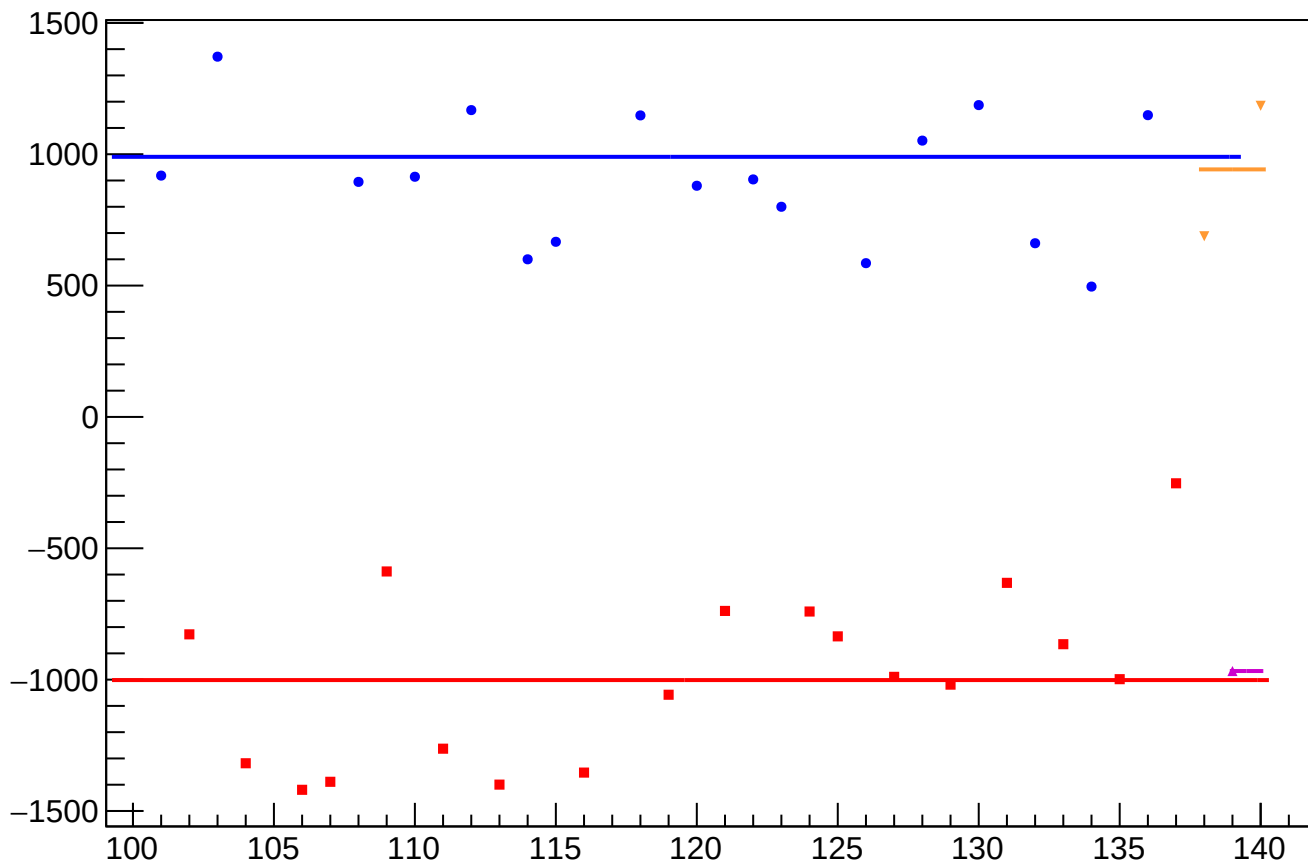
Right In: 336.537+/-0.000  $\chi^2/\text{NDF}$ : 3711385432707324073014239747985928880128.0/16  
 Left: -187.821+/-0.000  $\chi^2/\text{NDF}$ : 678186048749361  
 Right: -17.963+/-0.000  $\chi^2/\text{NDF}$ : 985003998805048  
 Left Out: -559.225+/-0.000  $\chi^2/\text{NDF}$ : 2152112542194815653146805946776813568.0/1  
 In: 358.410+/-0.000  $\chi^2/\text{NDF}$ : 37145622189407550  
 Right Out: -362.052+/-0.000  $\chi^2/\text{NDF}$ : 5966784958004941474881704867040847724544.0/17  
 Out: -398.107+/-0.000  $\chi^2/\text{NDF}$ : 597401995710360  
 Left In: 545.815+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -42.773+/-0.000  $\chi^2/\text{NDF}$ : 992379626258

dit\_sam6\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 143.327+/-0.000  $\chi^2/\text{NDF}$ : 4671526487507242419296658853814337536.0/16  
 Left Out: 86.956+/-0.000  $\chi^2/\text{NDF}$ : 50450666730784475502389838481457152.0/1  
 Right Out: -138.133+/-0.000  $\chi^2/\text{NDF}$ : 3152322250150098804756661412355375104.0/17  
 Left In: -127.070+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 2.621+/-0.000  $\chi^2/\text{NDF}$ : 38280008695075

dit\_sam6\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000

$\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000

$\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000

$\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

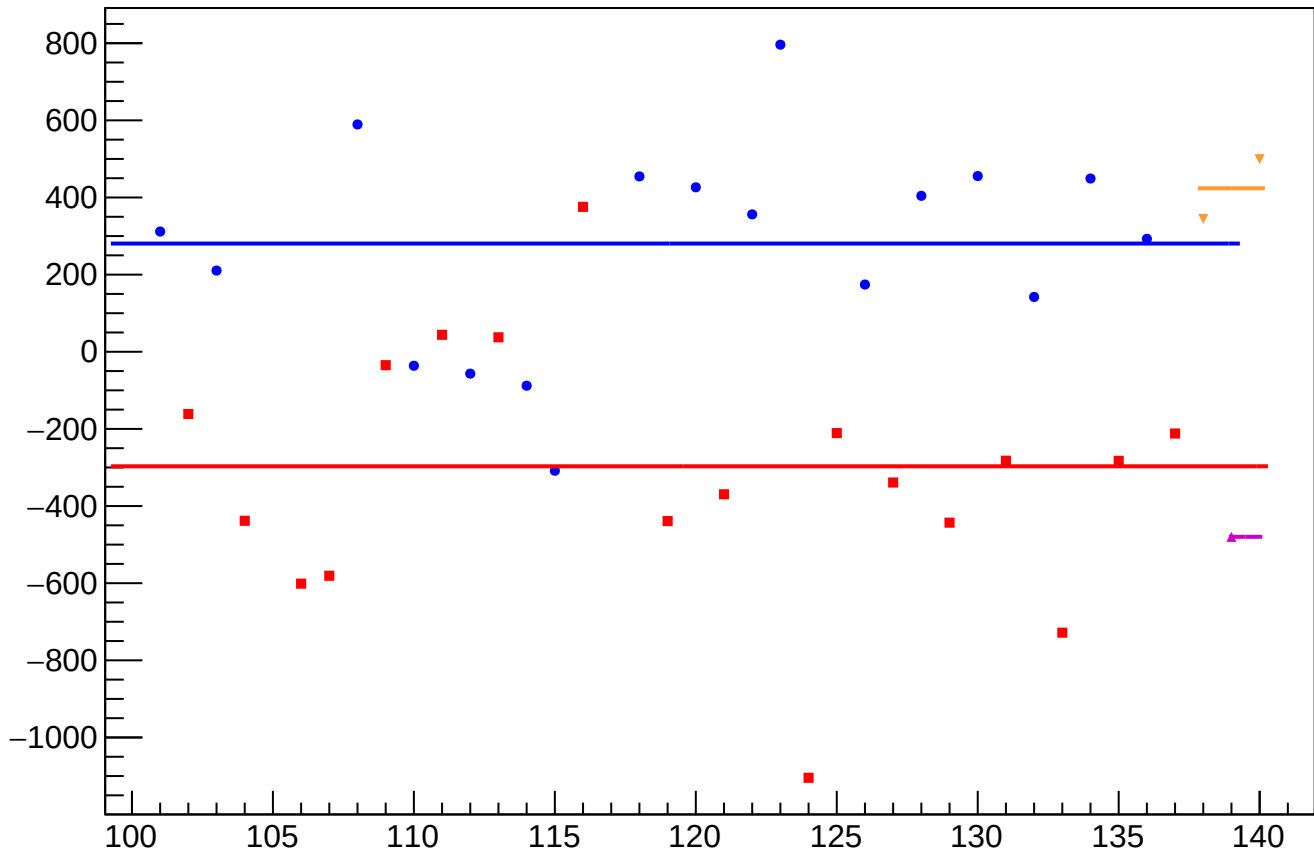
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

dit\_sam7\_coil6\_mean vs Slug, Sign Corrected



Right In: 280.587+/-0.000

$\chi^2/\text{NDF}$ : 26873653578381248944514799501999865856.0/16

Left Out: 423.861+/-0.000

$\chi^2/\text{NDF}$ : 958296305958385198996116173492322304.0/1

Right Out: -296.905+/-0.000

$\chi^2/\text{NDF}$ : 53152105752477344290303829793952497664.0/17

Left In: -479.766+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left: 120.153+/-0.000  $\chi^2/\text{NDF}$ : 4486862772275025

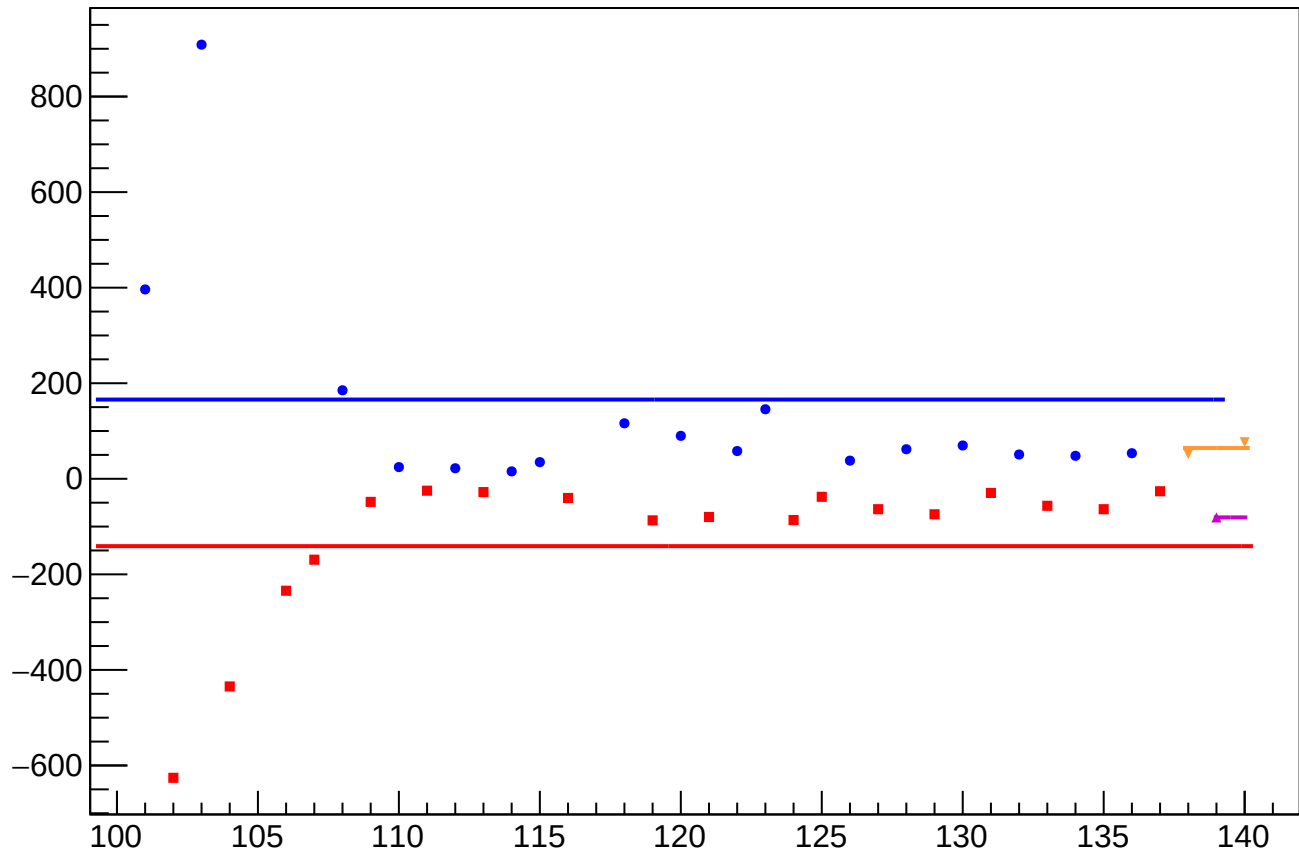
Right: -12.462+/-0.000  $\chi^2/\text{NDF}$ : 197474051054270

In: 201.118+/-0.000  $\chi^2/\text{NDF}$ : 6880834812598886

Out: -165.108+/-0.000  $\chi^2/\text{NDF}$ : 122031862902687

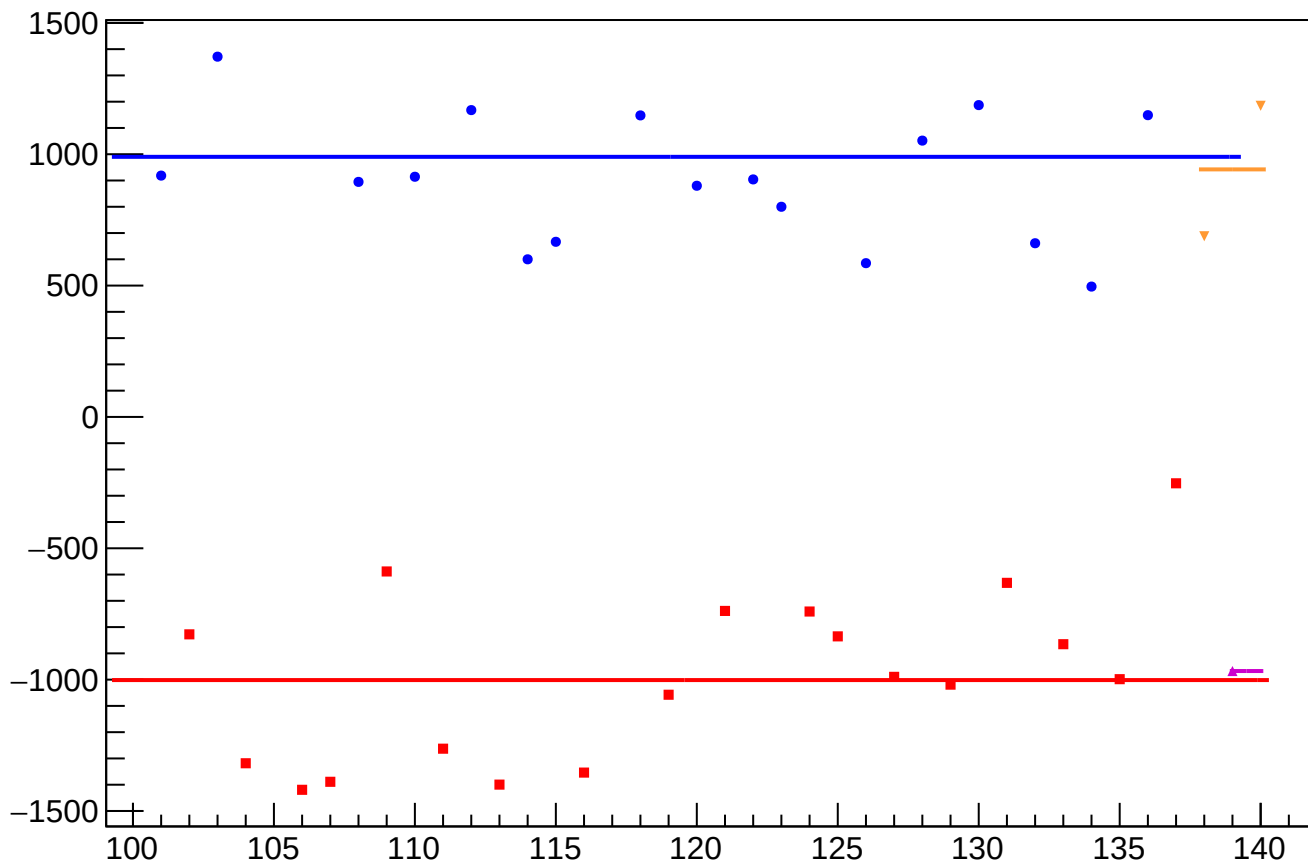
All: 6.907+/-0.000  $\chi^2/\text{NDF}$ : 24596202129147

dit\_sam7\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 165.841+/-0.000  $\chi^2/\text{NDF}$ : 42388910284637758892134233675562745856.0/16  
 Left Out: 64.505+/-0.000  $\chi^2/\text{NDF}$ : 24175205712374546353149951153799168.0/1  
 Right Out: -140.976+/-0.000  $\chi^2/\text{NDF}$ : 22674964646016742017185923250652184576.0/17  
 Left In: -80.795+/-0.000  $\chi^2/\text{NDF}$ : 16357.8/0  
 All: 10.953+/-0.000  $\chi^2/\text{NDF}$ : 9938196103851

dit\_sam7\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

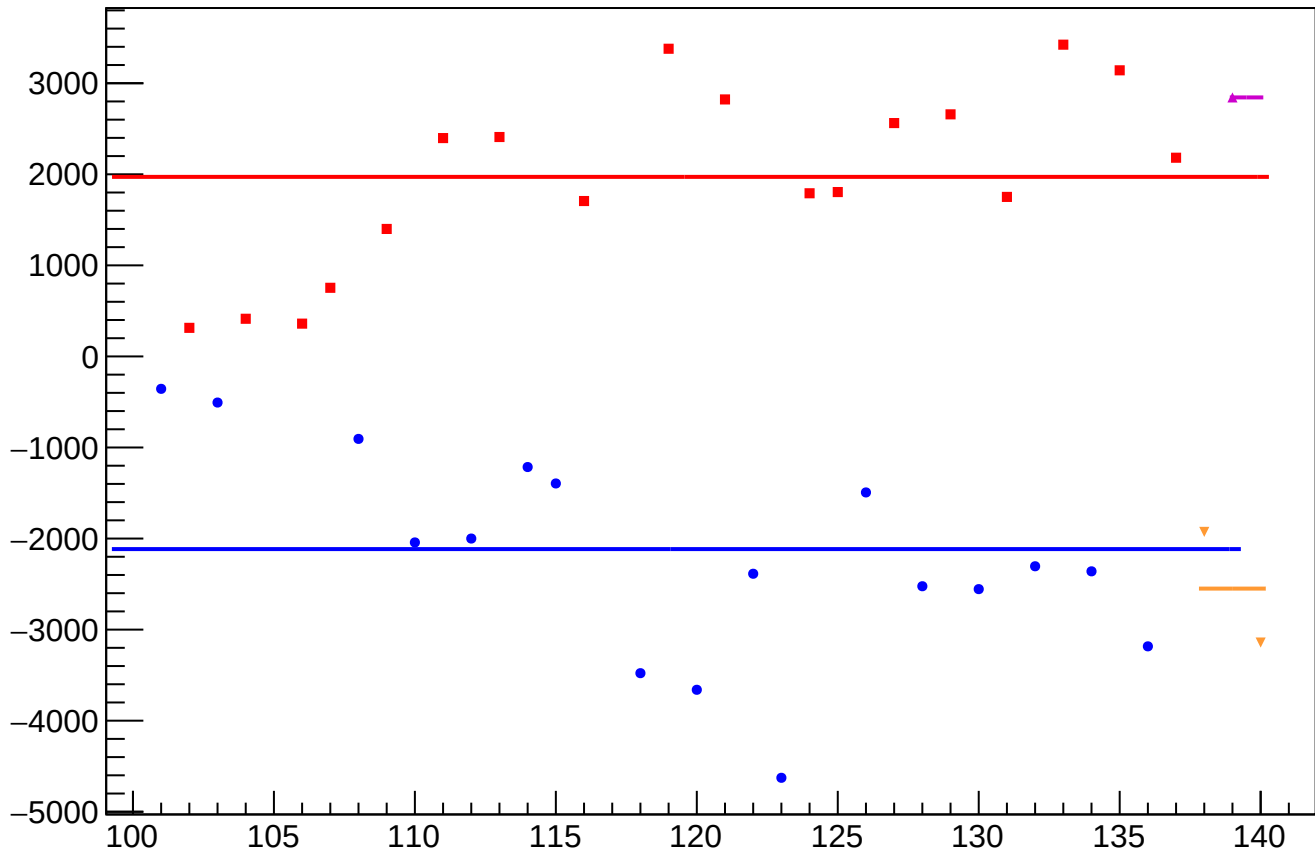
In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007



# dit\_sam8\_coil6\_mean vs Slug, Sign Corrected



Right In: -2115.686+/-0.000

Left Out: -2549.570+/-0.000

Right Out: 1971.716+/-0.000

Left In: 2844.170+/-0.000

$\chi^2/\text{NDF}$ : 754451931643030128758883529777223827456.0/16

$\chi^2/\text{NDF}$ : 59021559035779265295639461352395767808.0/1

$\chi^2/\text{NDF}$ : 778865201263461024769541360998730956800.0/17

$\chi^2/\text{NDF}$ : 0.0/0

Left: -736.736+/-0.000  $\chi^2/\text{NDF}$ : 162349434723814

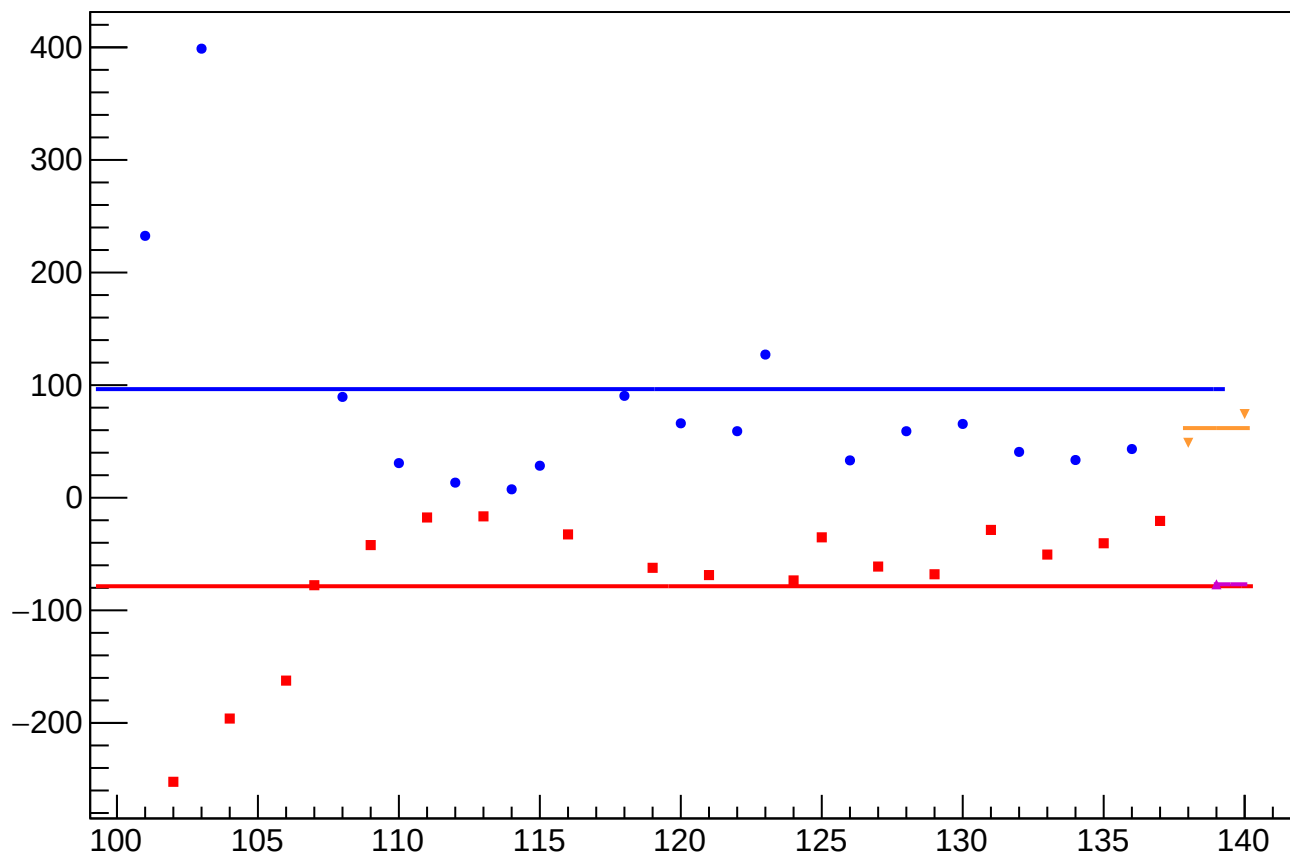
Right: -41.525+/-0.000  $\chi^2/\text{NDF}$ : 741699927533891

In: -1597.301+/-0.000  $\chi^2/\text{NDF}$ : 253880552664006

Out: 1144.967+/-0.000  $\chi^2/\text{NDF}$ : 351053596157517

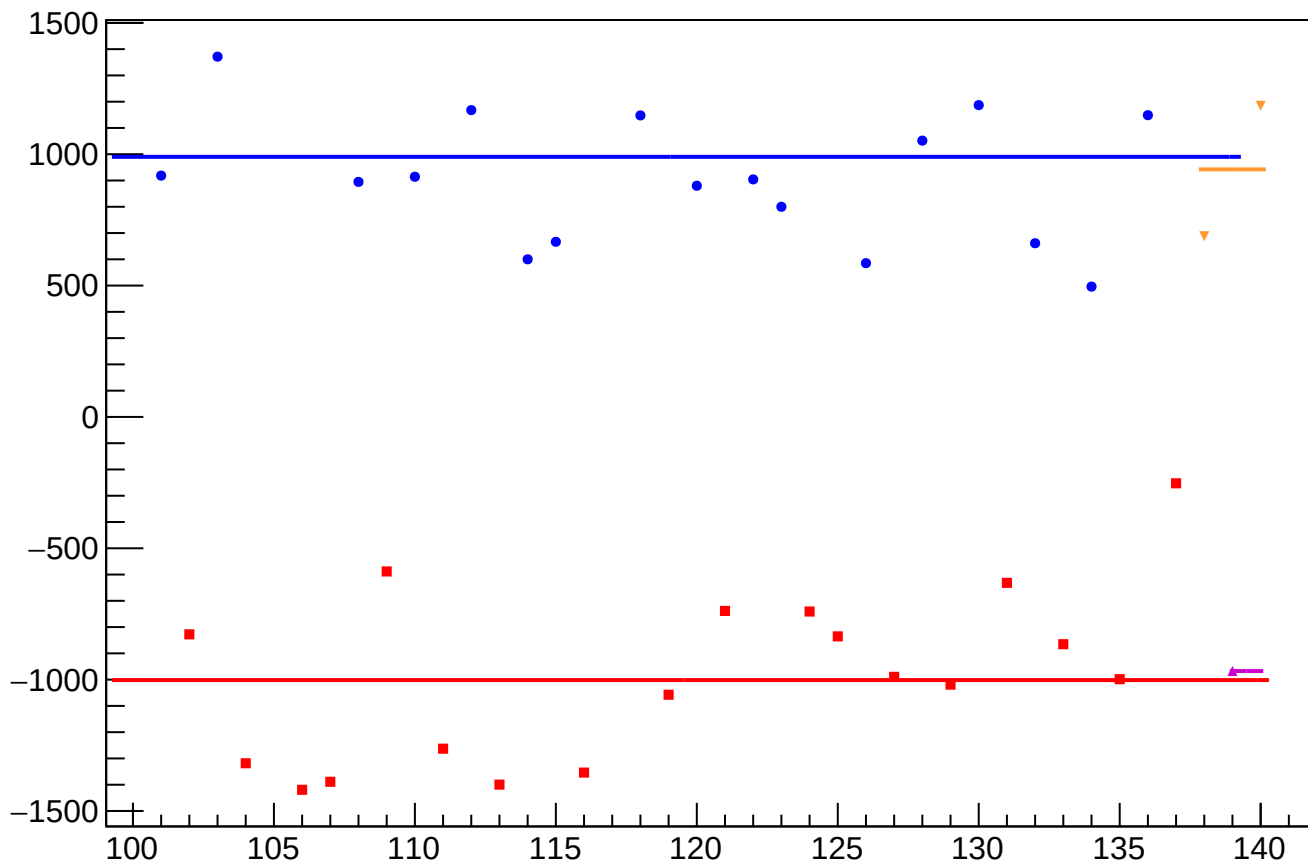
All: -143.068+/-0.000  $\chi^2/\text{NDF}$ : 91399602557

# dit\_sam8\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 96.465+/-0.000  $\chi^2/\text{NDF}$ : 7977727256930133620372701565161570304.0/16  
 Left Out: 61.854+/-0.000  $\chi^2/\text{NDF}$ : 26041638260118620345186212477140992.0/1  
 Right Out: -78.600+/-0.000  $\chi^2/\text{NDF}$ : 3499001556563234508710770672385654784.0/17  
 Left In: -76.868+/-0.000  $\chi^2/\text{NDF}$ : 16357.8/0  
 In: 78.349+/-0.000  $\chi^2/\text{NDF}$ : 101569587152875057  
 Out: -52.917+/-0.000  $\chi^2/\text{NDF}$ : 6104243408162088  
 All: 8.738+/-0.000  $\chi^2/\text{NDF}$ : 23342692199495

dit\_sam8\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 990.104+/-0.000  $\chi^2/\text{NDF}$ : 36894248833595574425684746704003268608.0/16

Left Out: 942.281+/-0.000  $\chi^2/\text{NDF}$ : 9862620487902604886305778237268033536.0/1

Right Out: -1001.684+/-0.000  $\chi^2/\text{NDF}$ : 61351571695254109773751672489010790400.0/17

Left In: -967.259+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 300.485+/-0.000  $\chi^2/\text{NDF}$ : 2059482247877670

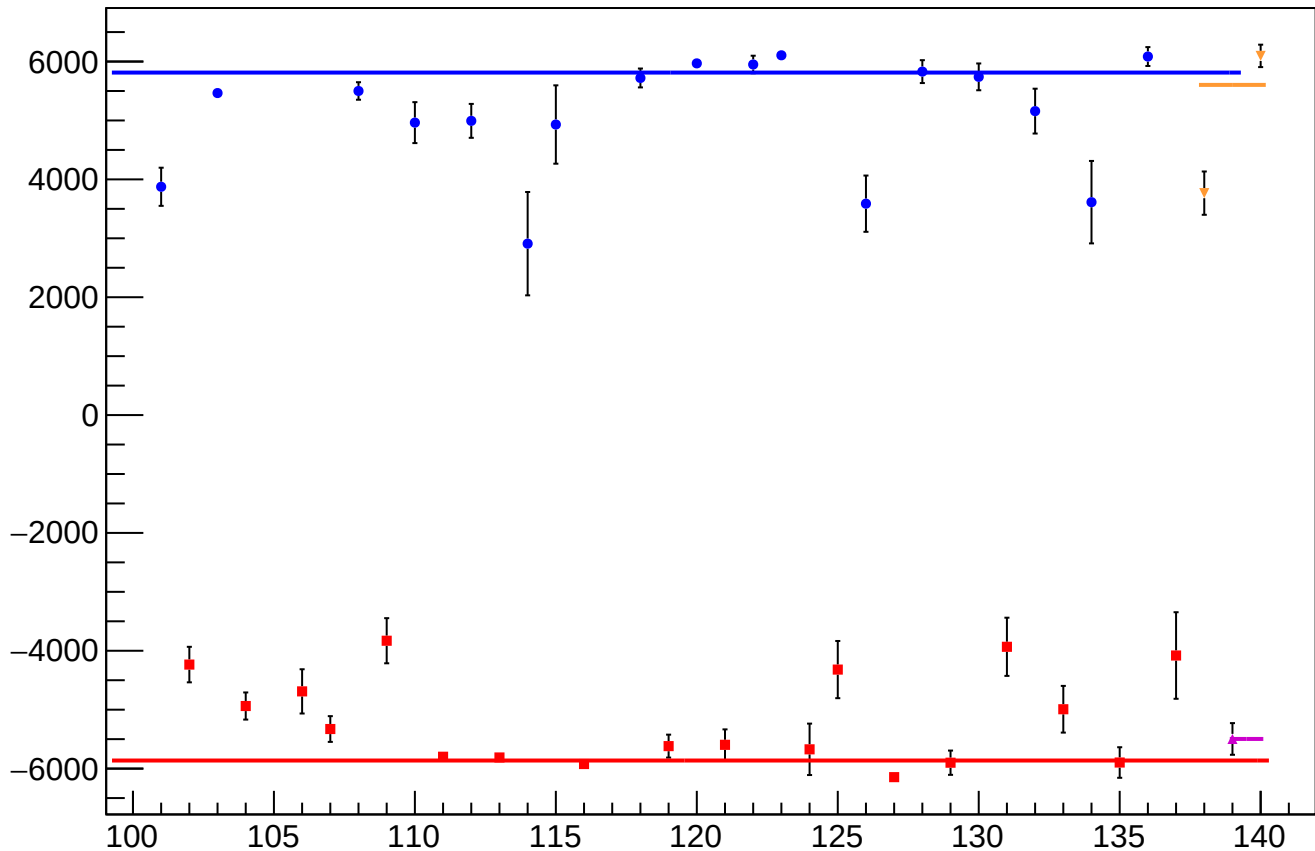
Right: -20.633+/-0.000  $\chi^2/\text{NDF}$ : 149538797073234

In: 785.528+/-0.000  $\chi^2/\text{NDF}$ : 3147923239013292

Out: -646.216+/-0.000  $\chi^2/\text{NDF}$ : 565291523450371

All: 26.270+/-0.000  $\chi^2/\text{NDF}$ : 1722557637007

# dit\_run\_mean vs Slug, Sign Corrected



Right In: 5812.740 $\pm$ 0.171  $\chi^2$ /NDF: 2217854.6/16

Left Out: 5603.535 $\pm$ 169.005  $\chi^2$ /NDF:31.7/1

Right Out: -5862.788 $\pm$ 0.139  $\chi^2$ /NDF: 199291.9/17

Left In: -5496.716 $\pm$ 268.708  $\chi^2$ /NDF:0.0/0

Left: 2457.142 $\pm$ 143.061  $\chi^2$ /NDF: 1254.4/2

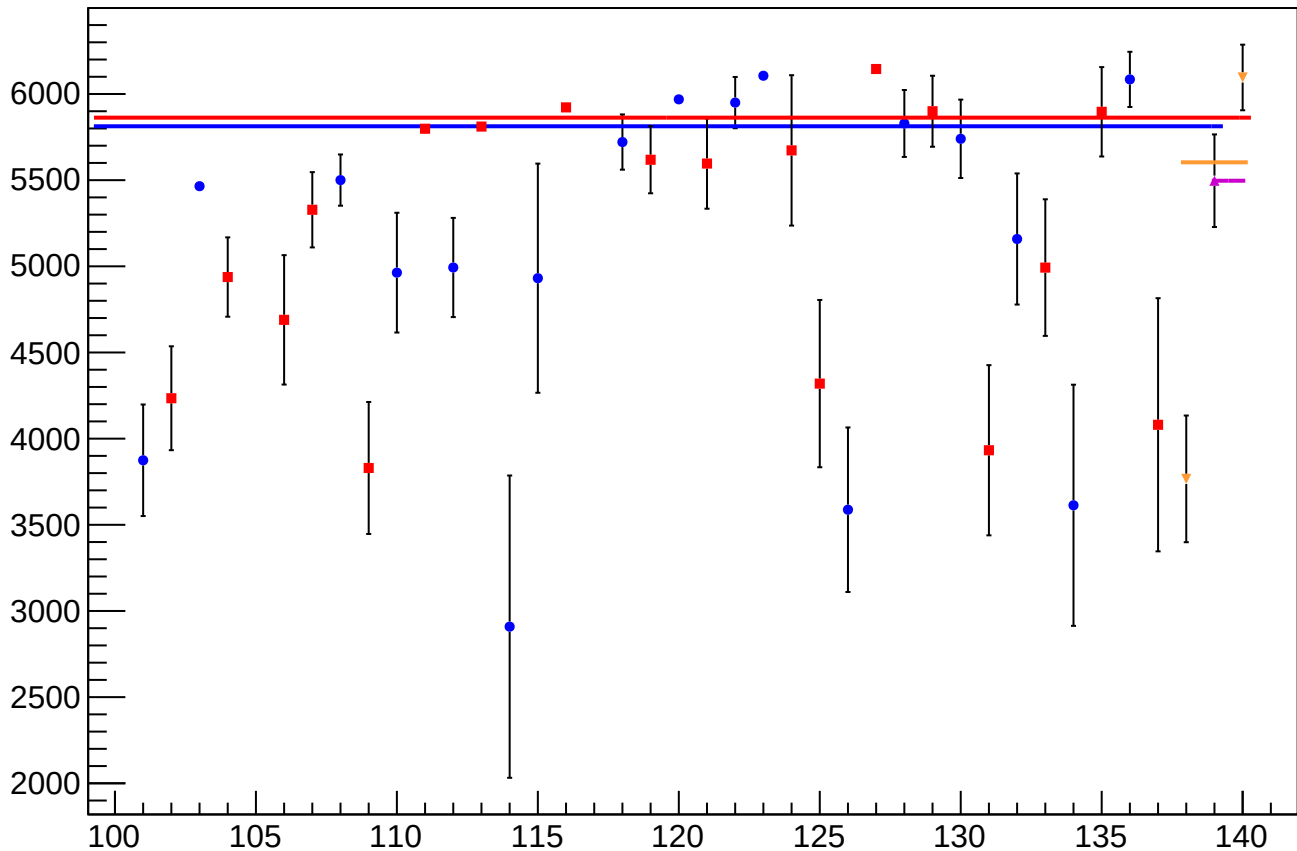
Right: -1193.446 $\pm$ 0.108  $\chi^2$ /NDF: 2813995894.0/3

In: 5812.736 $\pm$ 0.171  $\chi^2$ /NDF:2219626.0/17

Out: -5862.780 $\pm$ 0.139  $\chi^2$ /NDF:203926.7/19

All: -1193.444 $\pm$ 0.108  $\chi^2$ /NDF: 2813997799

# dit\_run\_rms vs Slug, Sign Corrected



Right In: 5812.740+/-0.171  $\chi^2/\text{NDF}$ : 2217854.6/16

Left Out: 5603.535+/-169.005  $\chi^2/\text{NDF}$ :31.7/1

Right Out: 5862.788+/-0.139  $\chi^2/\text{NDF}$ : 199291.9/17

Left In: 5496.716+/-268.708  $\chi^2/\text{NDF}$ :0.0/0

Left: 5573.257+/-143.061  $\chi^2/\text{NDF}$ : 31.8/2

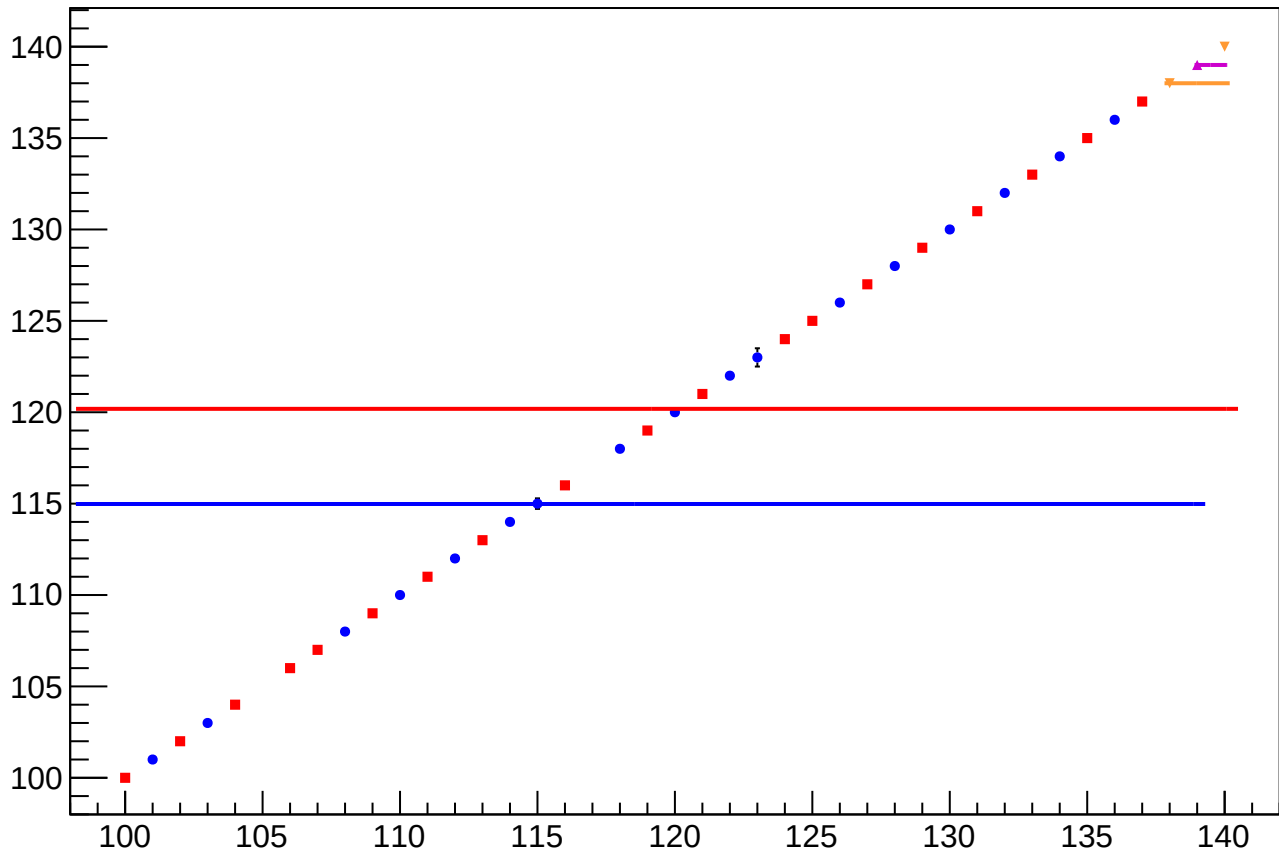
Right: 5842.773+/-0.108  $\chi^2/\text{NDF}$ : 2468807.9/34

In: 5812.740+/-0.171  $\chi^2/\text{NDF}$ :2217856.0/17

Out: 5862.788+/-0.139  $\chi^2/\text{NDF}$ :199325.9/19

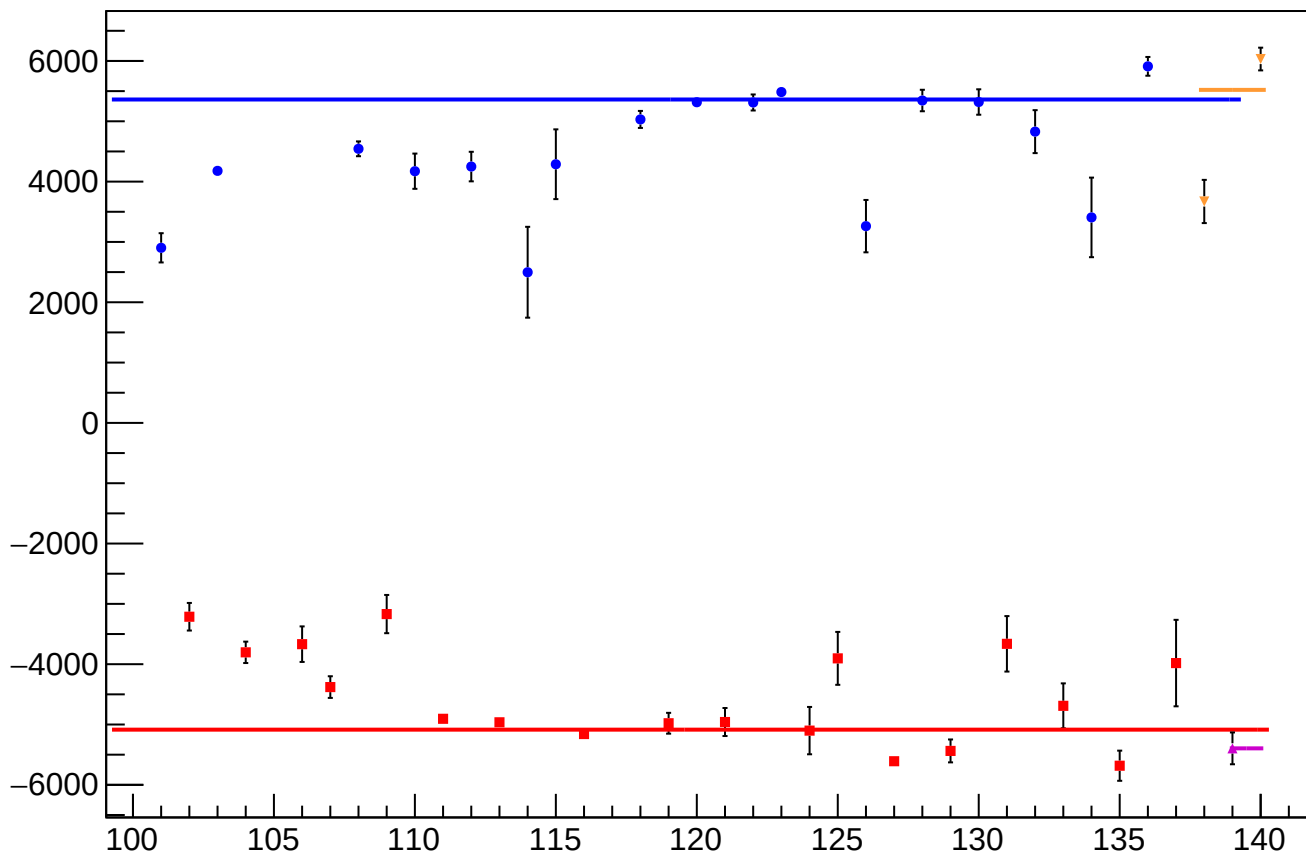
All: 5842.772+/-0.108  $\chi^2/\text{NDF}$ : 2468843.2/37

# dit\_slug\_slope vs Slug, Sign Corrected



Right In: 114.980+/-0.000  $\chi^2/\text{NDF}$ : 112344936246012934714934440230912.0/16  
 Left Out: 138.000+/-0.000  $\chi^2/\text{NDF}$ : 405.0/1  
 Right Out: 120.186+/-0.000  $\chi^2/\text{NDF}$ : 52233253644261695528198041763840.0/18  
 Left In: 139.000+/-0.111  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 117.868+/-0.000  $\chi^2/\text{NDF}$ : 220949351482

# dit\_cyclenum\_mean vs Slug, Sign Corrected



Right In: 5361.298+/-0.441  $\chi^2$ /NDF: 607948.2/16

Left Out: 5520.727+/-166.695  $\chi^2$ /NDF:34.0/1

Right Out: -5085.163+/-0.644  $\chi^2$ /NDF: 80603.0/17

Left In: -5395.309+/-263.770  $\chi^2$ /NDF:0.0/0

Left: 2405.275+/-140.914  $\chi^2$ /NDF: 1257.9/2

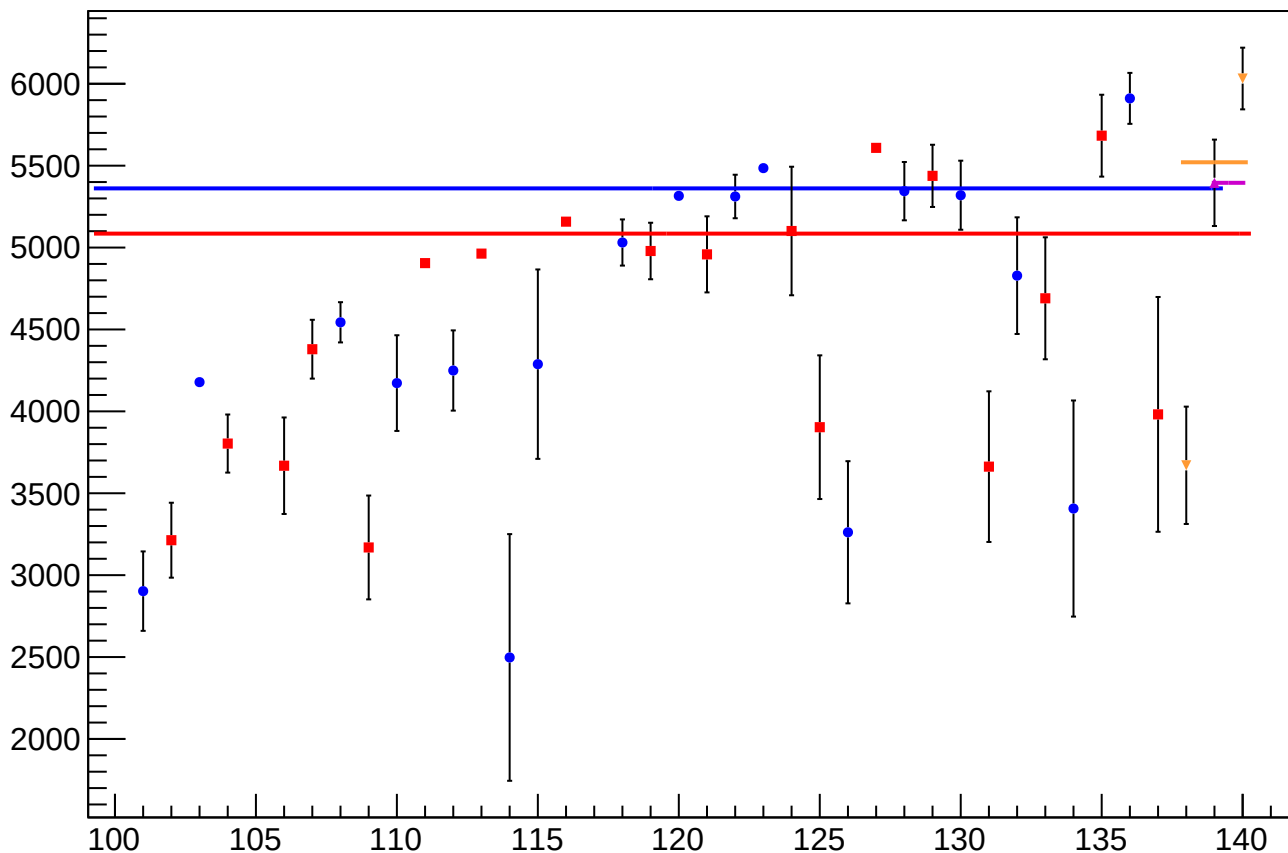
Right: 2021.502+/-0.364  $\chi^2$ /NDF: 179839669.6/34

In: 5361.268+/-0.441  $\chi^2$ /NDF:609611.2/17

Out: -5085.005+/-0.644  $\chi^2$ /NDF:84685.0/19

All: 2021.504+/-0.364  $\chi^2$ /NDF: 179840935.0

# dit\_cyclenum\_rms vs Slug, Sign Corrected



Right In: 5361.298 $\pm$ 0.441  $\chi^2$ /NDF: 607948.2/16

Left Out: 5520.727 $\pm$ 166.695  $\chi^2$ /NDF:34.0/1

Right Out: 5085.163 $\pm$ 0.644  $\chi^2$ /NDF: 80603.0/17

Left In: 5395.309 $\pm$ 263.770  $\chi^2$ /NDF:0.0/0

Left: 5484.932 $\pm$ 140.914  $\chi^2$ /NDF: 34.2/2

Right: 5273.016 $\pm$ 0.364  $\chi^2$ /NDF: 813728.5/34

In: 5361.298 $\pm$ 0.441  $\chi^2$ /NDF:607948.2/17

Out: 5085.169 $\pm$ 0.644  $\chi^2$ /NDF:80643.8/19

All: 5273.017 $\pm$ 0.364  $\chi^2$ /NDF: 813765.0/37



# 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

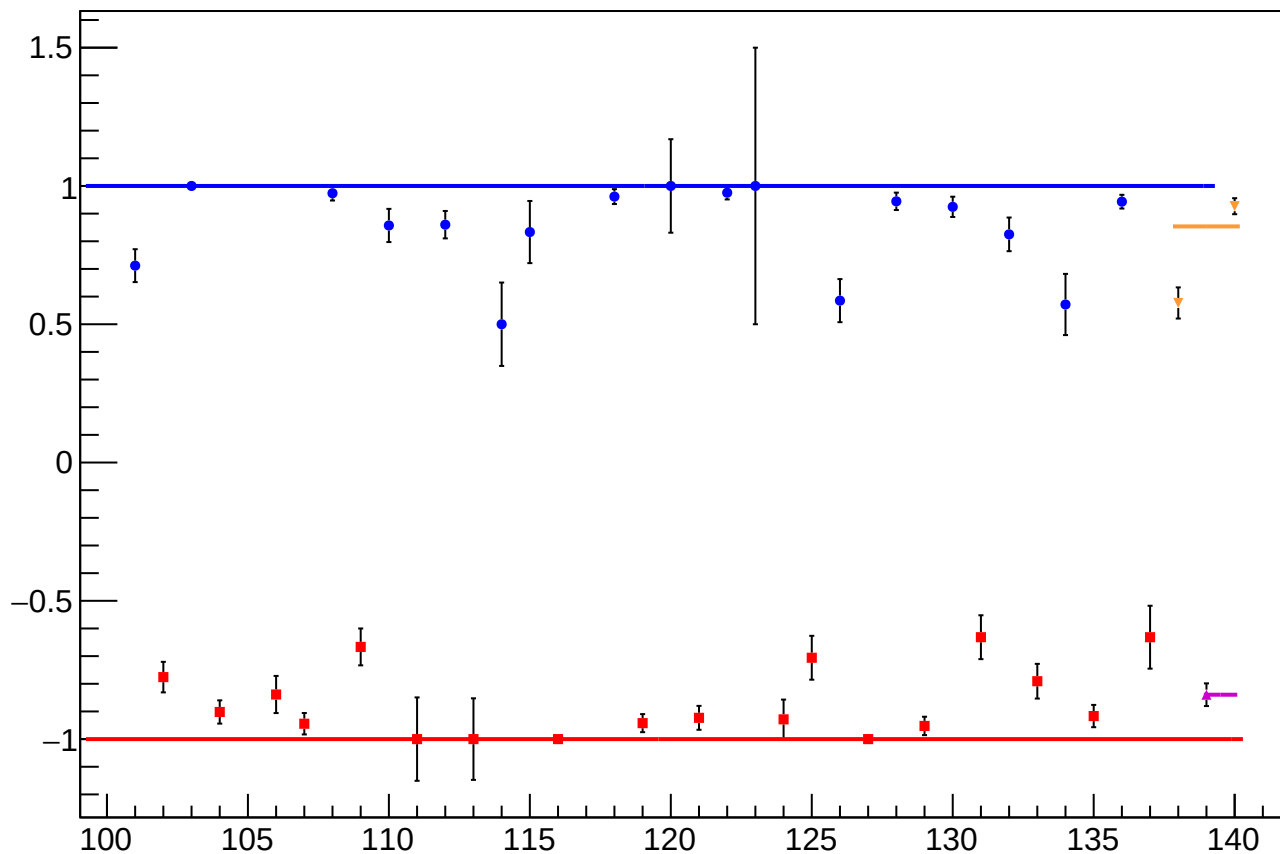
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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:  $0.854 \pm 0.026$   $\chi^2/\text{NDF}: 30.6/1$

Right Out:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 192.3/17$

Left In:  $-0.840 \pm 0.041$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.376 \pm 0.022$   $\chi^2/\text{NDF}: 1252.4/2$

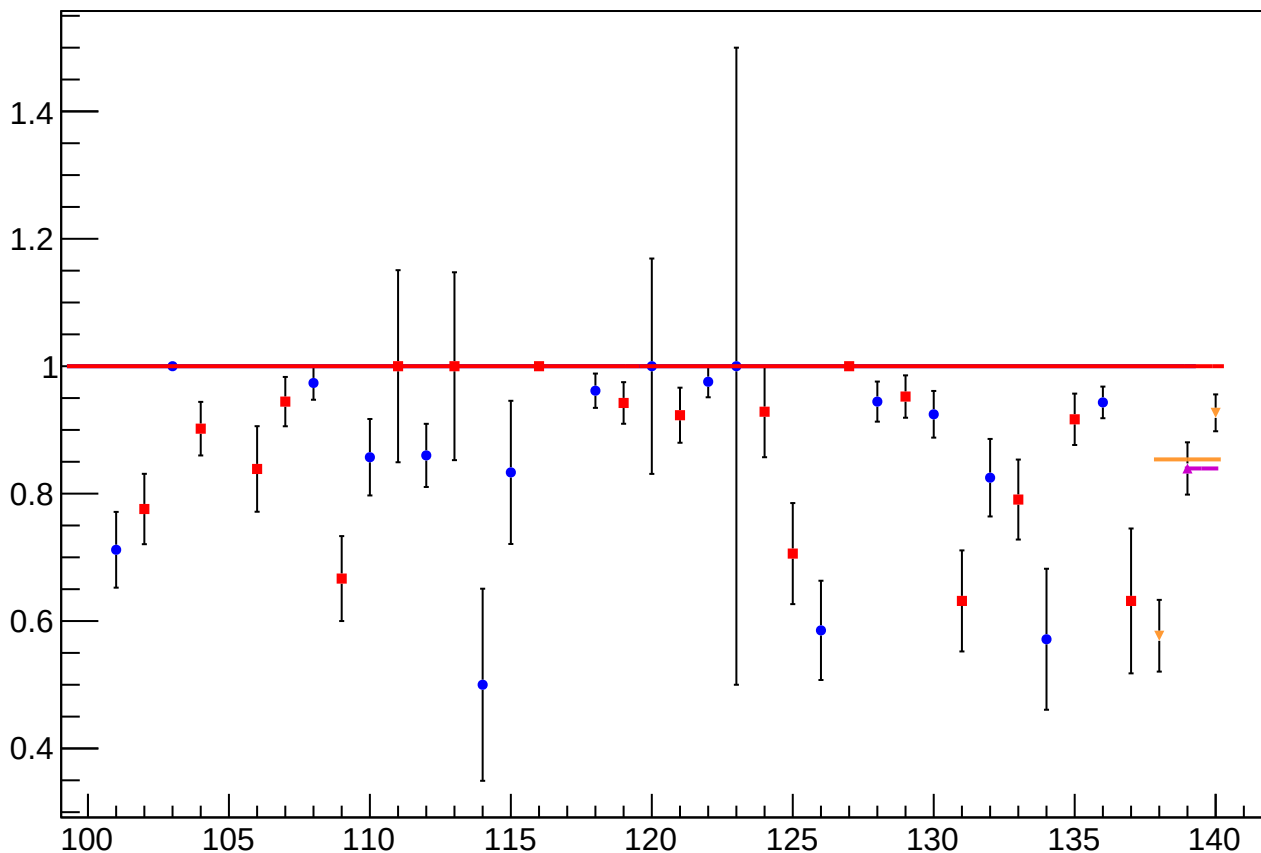
Right:  $-0.072 \pm 0.000$   $\chi^2/\text{NDF}: 2522158199033292$

In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}: 2127.7/17$

Out:  $-1.000 \pm 0.000$   $\chi^2/\text{NDF}: 5411.2/19$

All:  $-0.072 \pm 0.000$   $\chi^2/\text{NDF}: 2522158199033$

# dit\_flag\_rms vs Slug, Sign Corrected



Right In: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 118.6/16

Left Out: 0.854+/-0.026  $\chi^2/\text{NDF}$ :30.6/1

Right Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 192.3/17

Left In: 0.840+/-0.041  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.850+/-0.022  $\chi^2/\text{NDF}$ : 30.6/2

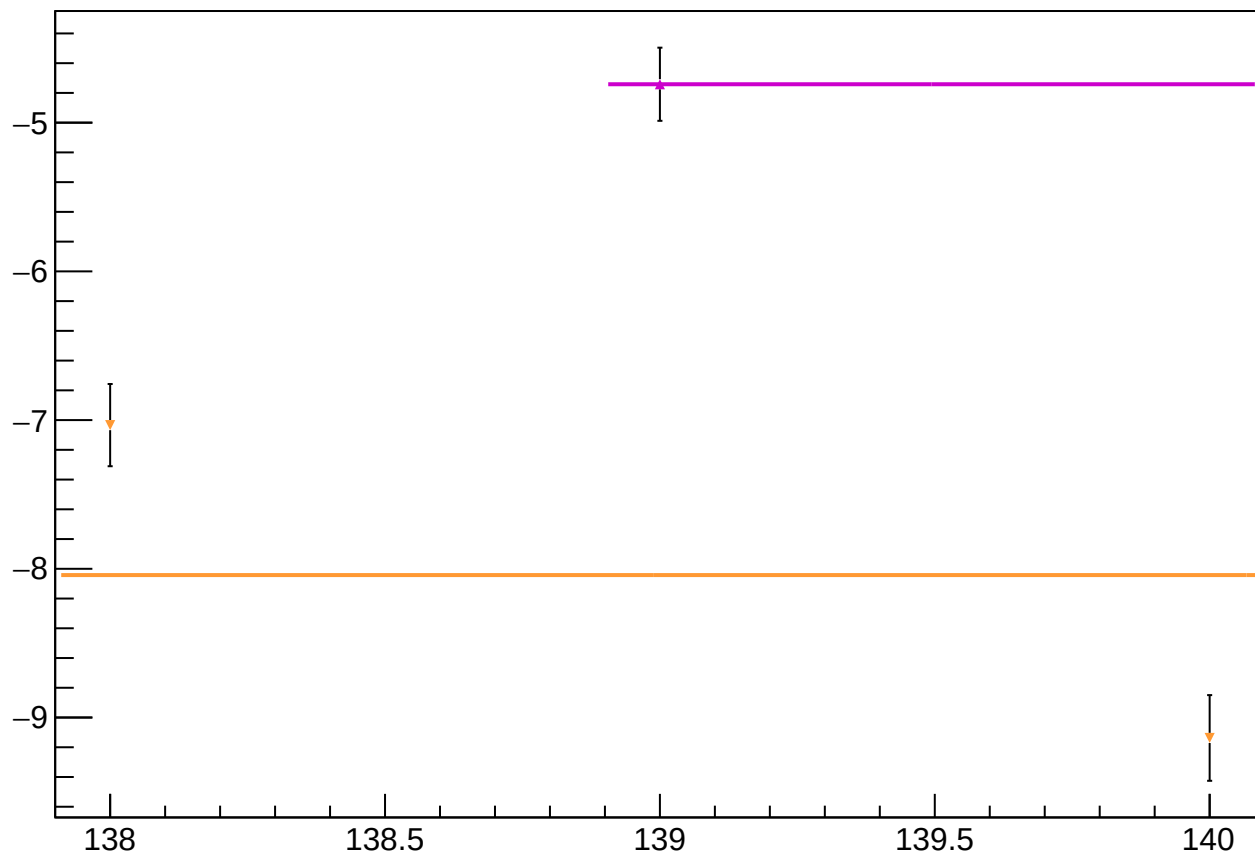
Right: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 243.9/34

In: 1.000+/-0.000  $\chi^2/\text{NDF}$ :133.9/17

Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ :255.2/19

All: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 322.0/37

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: -8.042+/-0.199  $\chi^2/\text{NDF}$ : 27.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.742+/-0.246  $\chi^2/\text{NDF}$ : 0.0/0

Left: -6.733+/-0.155  $\chi^2/\text{NDF}$ : 136.4/2

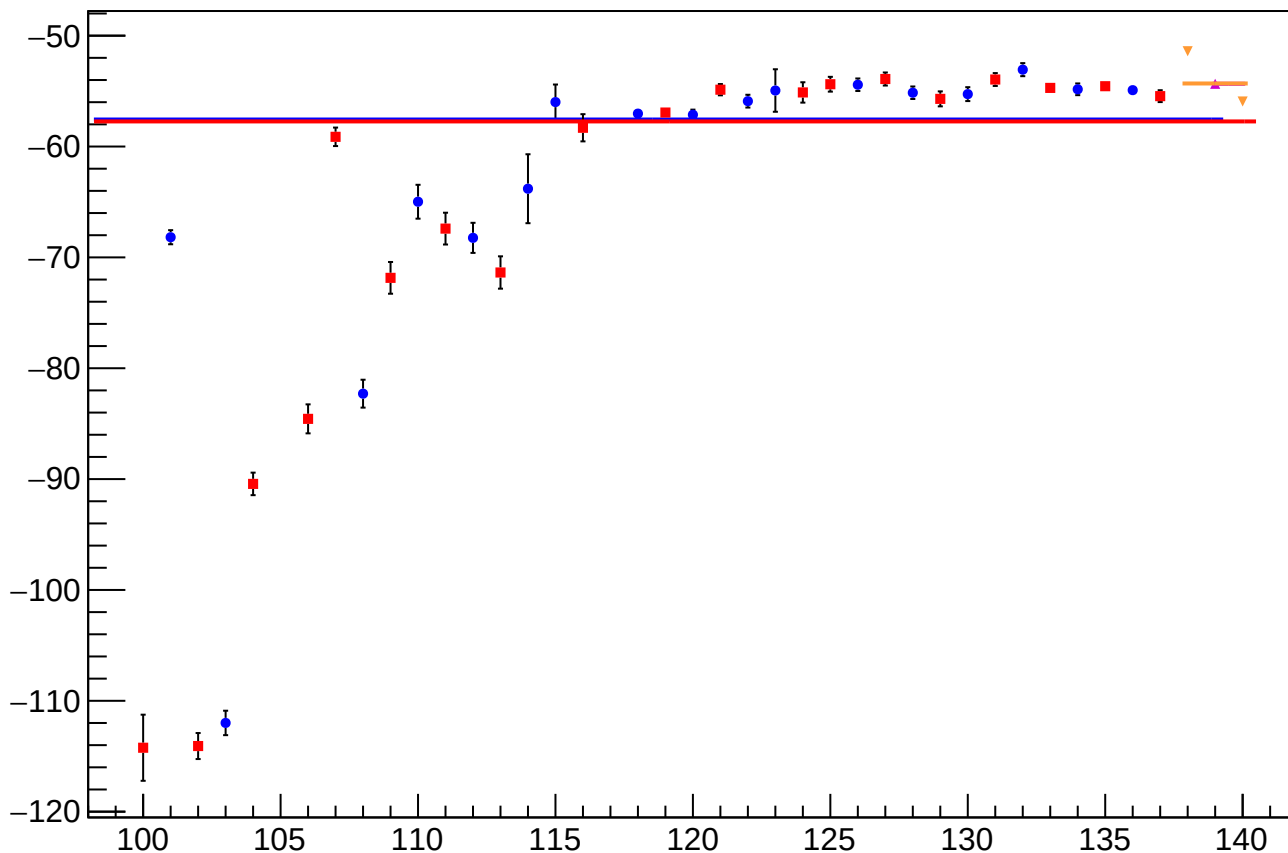
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.742+/-0.246  $\chi^2/\text{NDF}$ : 0.0/0

Out: -8.042+/-0.199  $\chi^2/\text{NDF}$ : 27.8/1

All: -6.733+/-0.155  $\chi^2/\text{NDF}$ : 136.4/2

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-57.563 \pm 0.141$   $\chi^2/\text{NDF}$ : 3455.9/16

Left Out:  $-54.312 \pm 0.193$   $\chi^2/\text{NDF}$ : 126.9/1

Right Out:  $-57.736 \pm 0.143$   $\chi^2/\text{NDF}$ : 4698.4/18

Left In:  $-54.340 \pm 0.445$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-54.317 \pm 0.177$   $\chi^2/\text{NDF}$ : 126.9/2

Right:  $-57.649 \pm 0.101$   $\chi^2/\text{NDF}$ : 8155.1/35

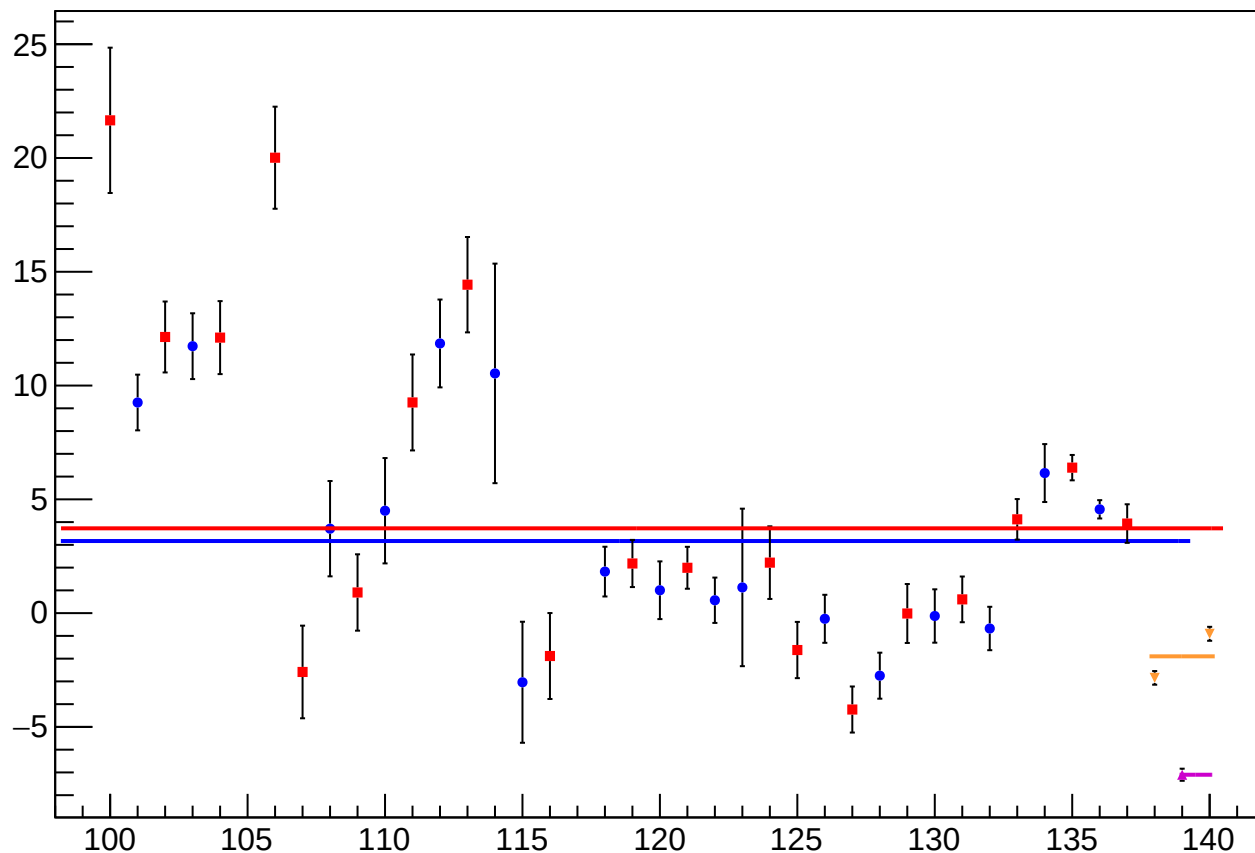
In:  $-57.267 \pm 0.135$   $\chi^2/\text{NDF}$ : 3503.6/17

Out:  $-56.522 \pm 0.115$   $\chi^2/\text{NDF}$ : 5028.5/20

All:  $-56.836 \pm 0.087$   $\chi^2/\text{NDF}$ : 8549.9/38



reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 3.168 $\pm$ 0.258  $\chi^2$ /NDF: 186.2/16

Left Out: -1.899 $\pm$ 0.215  $\chi^2$ /NDF: 20.3/1

Right Out: 3.726 $\pm$ 0.267  $\chi^2$ /NDF: 323.3/18

Left In: -7.102 $\pm$ 0.266  $\chi^2$ /NDF: 0.0/0

Left: -3.949 $\pm$ 0.167  $\chi^2$ /NDF: 251.9/2

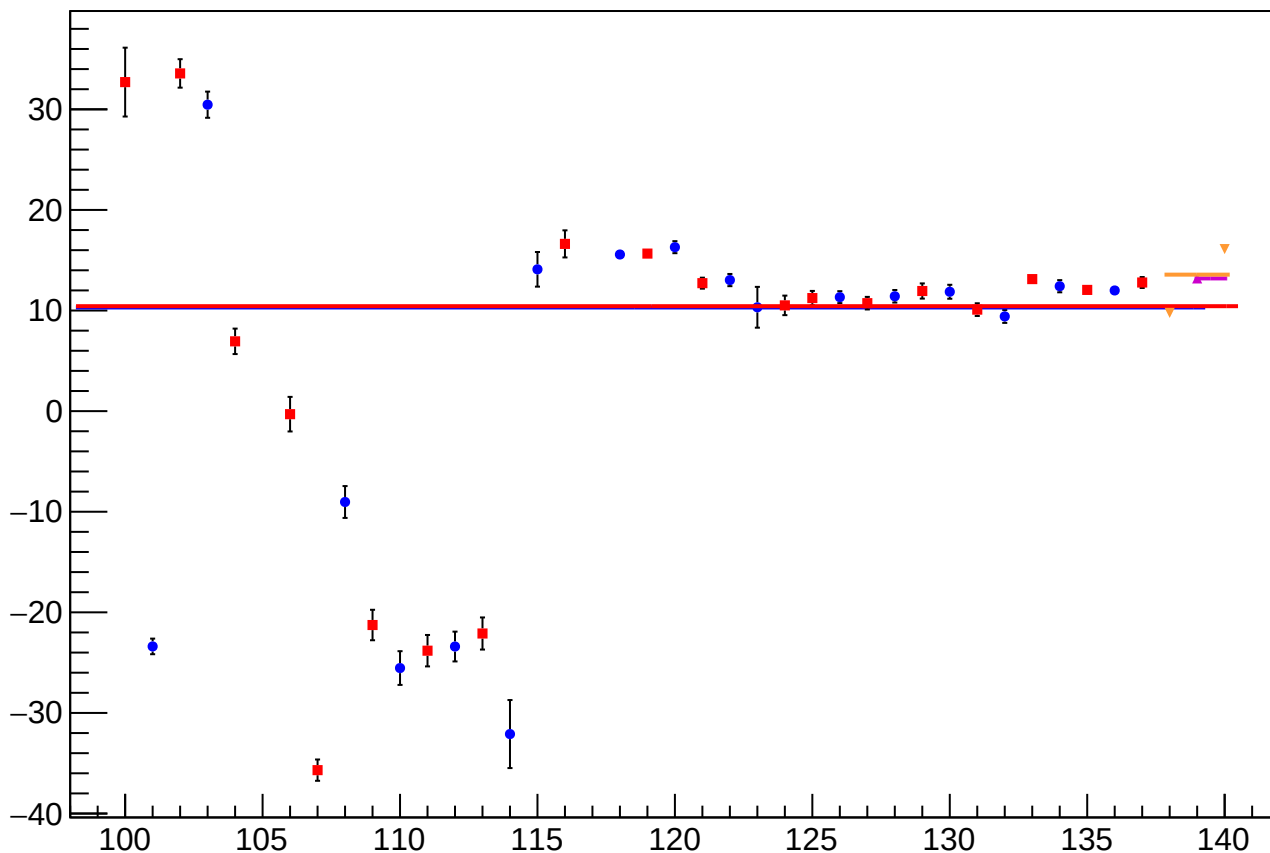
Right: 3.437 $\pm$ 0.185  $\chi^2$ /NDF: 511.7/35

In: -1.802 $\pm$ 0.185  $\chi^2$ /NDF: 954.6/17

Out: 0.308 $\pm$ 0.167  $\chi^2$ /NDF: 613.2/20

All: -0.640 $\pm$ 0.124  $\chi^2$ /NDF: 1639.2/38

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.306 $\pm$ 0.157  $\chi^2$ /NDF: 3712.3/16

Left Out: 13.569 $\pm$ 0.224  $\chi^2$ /NDF:192.8/1

Right Out: 10.433 $\pm$ 0.160  $\chi^2$ /NDF: 3828.5/18

Left In: 13.192 $\pm$ 0.428  $\chi^2$ /NDF:0.0/0

Left: 13.488 $\pm$ 0.198  $\chi^2$ /NDF: 193.4/2

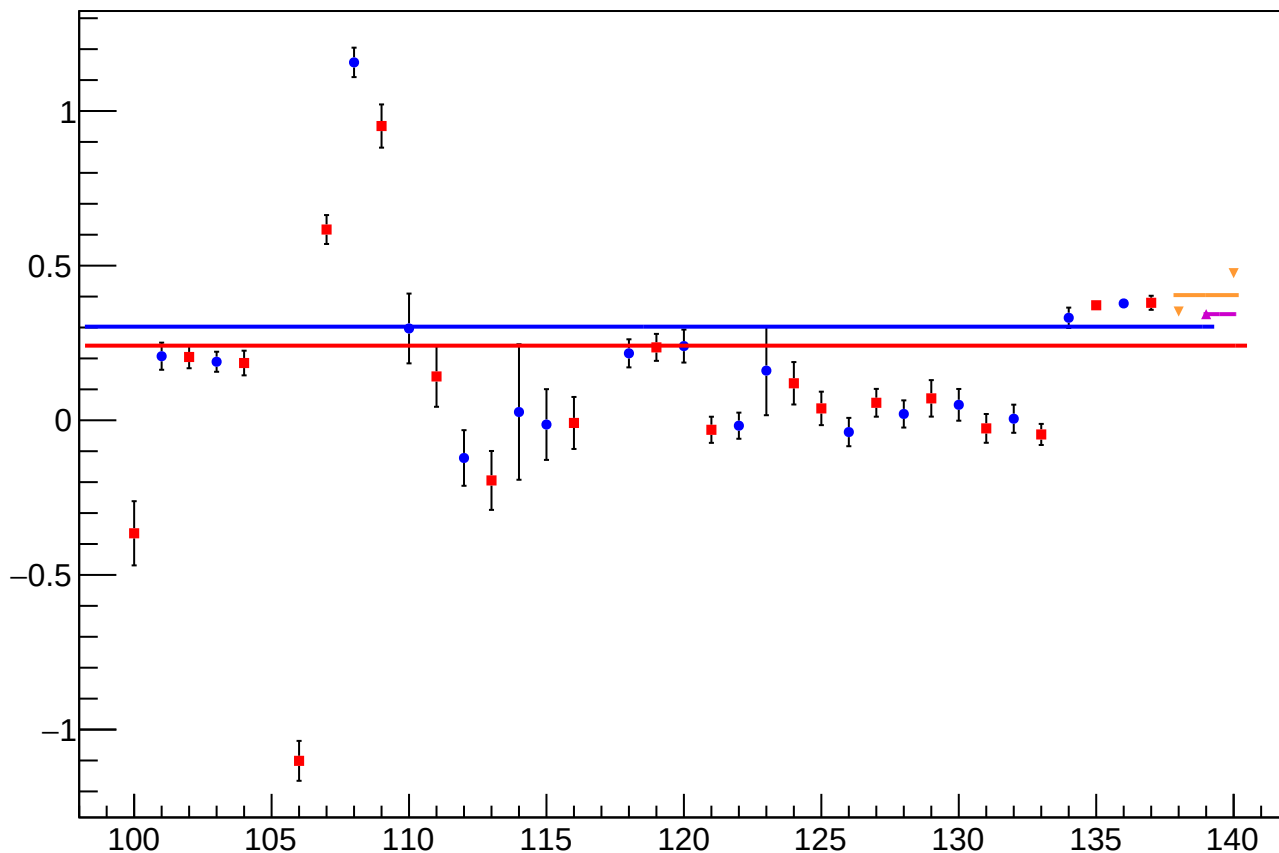
Right: 10.368 $\pm$ 0.112  $\chi^2$ /NDF: 7541.1/35

In: 10.647 $\pm$ 0.147  $\chi^2$ /NDF:3752.3/17

Out: 11.493 $\pm$ 0.130  $\chi^2$ /NDF:4151.3/20

All: 11.122 $\pm$ 0.097  $\chi^2$ /NDF: 7922.2/38

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.303 $\pm$ 0.008  $\chi^2$ /NDF: 646.6/16

Left Out: 0.405 $\pm$ 0.009  $\chi^2$ /NDF: 49.7/1

Right Out: 0.241 $\pm$ 0.008  $\chi^2$ /NDF: 986.7/18

Left In: 0.343 $\pm$ 0.009  $\chi^2$ /NDF: 0.0/0

Left: 0.376 $\pm$ 0.006  $\chi^2$ /NDF: 72.7/2

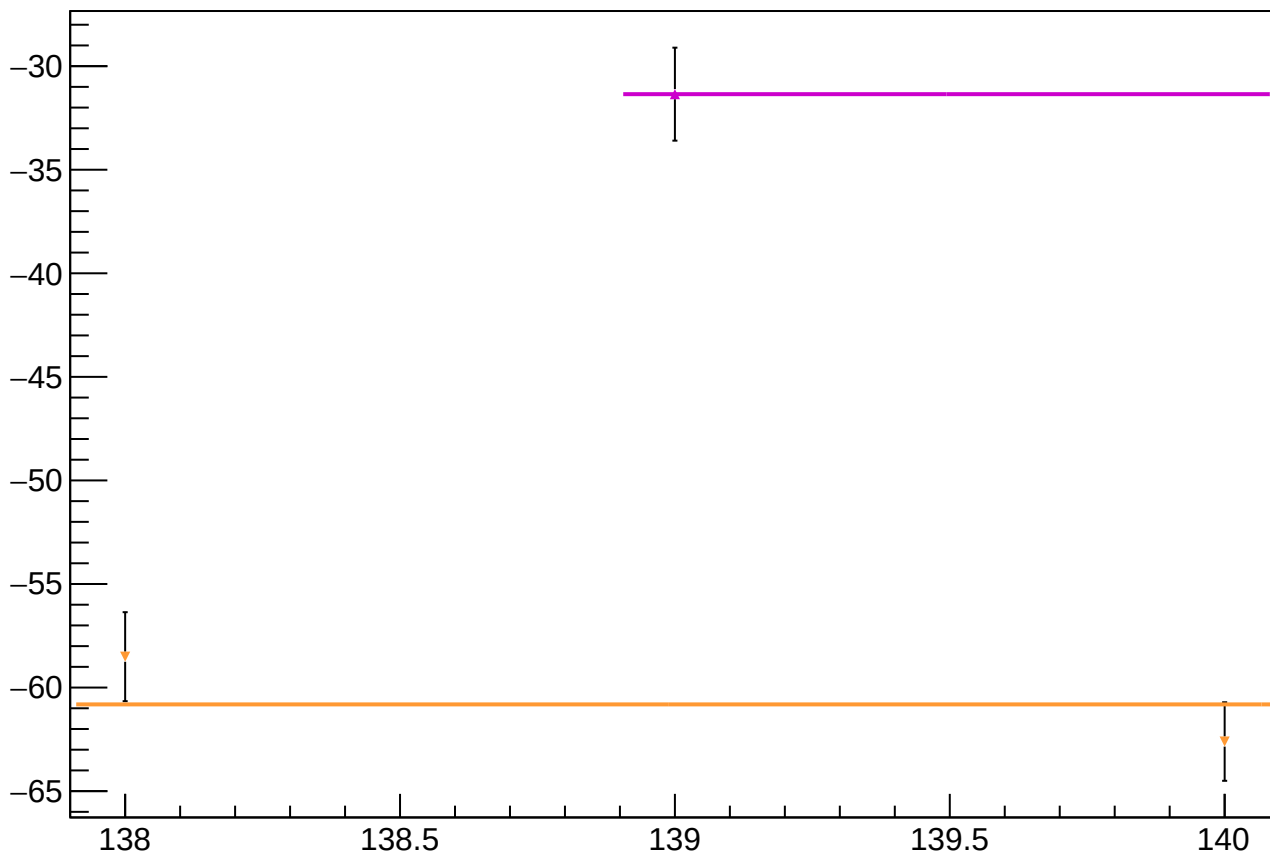
Right: 0.273 $\pm$ 0.006  $\chi^2$ /NDF: 1660.4/35

In: 0.320 $\pm$ 0.006  $\chi^2$ /NDF: 657.1/17

Out: 0.321 $\pm$ 0.006  $\chi^2$ /NDF: 1216.9/20

All: 0.321 $\pm$ 0.004  $\chi^2$ /NDF: 1874.0/38

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: -60.813+/-1.421  $\chi^2/\text{NDF}$ : 2.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -31.352+/-2.244  $\chi^2/\text{NDF}$ : 0.0/0

Left: -52.380+/-1.201  $\chi^2/\text{NDF}$ : 125.0/2

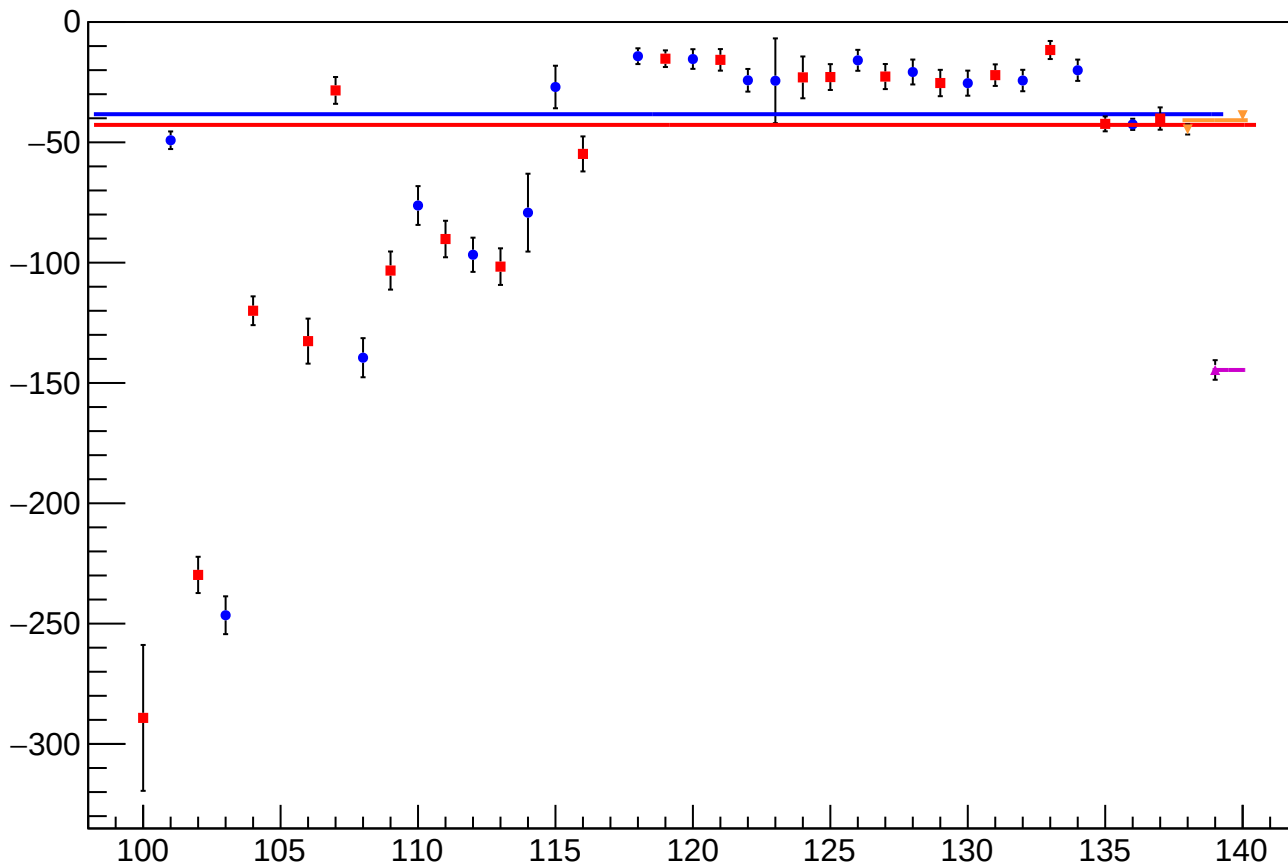
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.352+/-2.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: -60.813+/-1.421  $\chi^2/\text{NDF}$ : 2.0/1

All: -52.380+/-1.201  $\chi^2/\text{NDF}$ : 125.0/2

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -38.309+/-1.137  $\chi^2/\text{NDF}$ : 1132.7/16

Left Out: -40.816+/-1.247  $\chi^2/\text{NDF}$ : 5.1/1

Right Out: -42.756+/-1.211  $\chi^2/\text{NDF}$ : 1341.6/18

Left In: -144.594+/-4.071  $\chi^2/\text{NDF}$ : 0.0/0

Left: -49.721+/-1.193  $\chi^2/\text{NDF}$ : 599.1/2

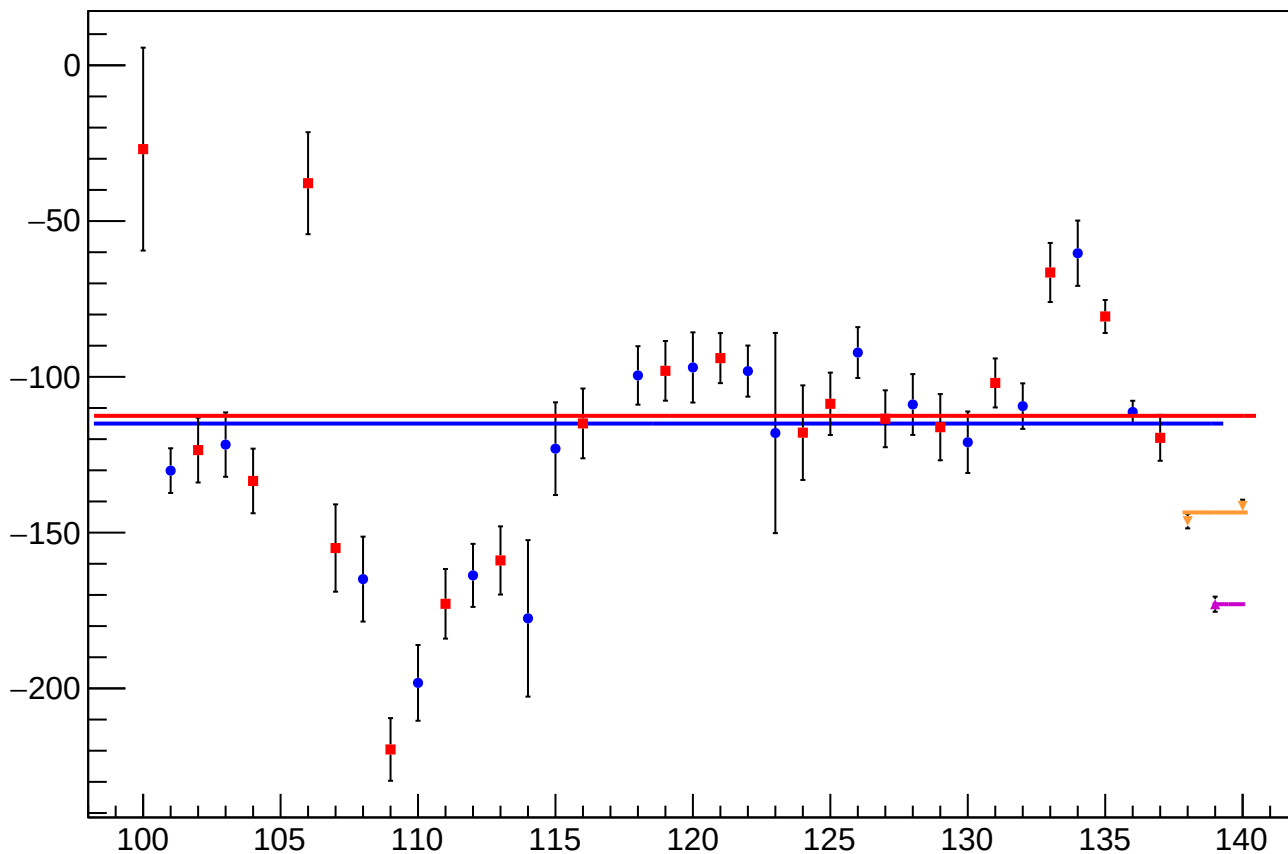
Right: -40.393+/-0.829  $\chi^2/\text{NDF}$ : 2481.4/35

In: -45.998+/-1.095  $\chi^2/\text{NDF}$ : 1764.9/17

Out: -41.815+/-0.869  $\chi^2/\text{NDF}$ : 1347.9/20

All: -43.431+/-0.681  $\chi^2/\text{NDF}$ : 3121.7/38

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:  $-143.529 \pm 1.525$   $\chi^2/\text{NDF}$ : 2.5/1

Right Out:  $-112.510 \pm 2.207$   $\chi^2/\text{NDF}$ : 273.1/18

Left In:  $-172.979 \pm 2.428$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-151.862 \pm 1.292$   $\chi^2/\text{NDF}$ : 108.0/2

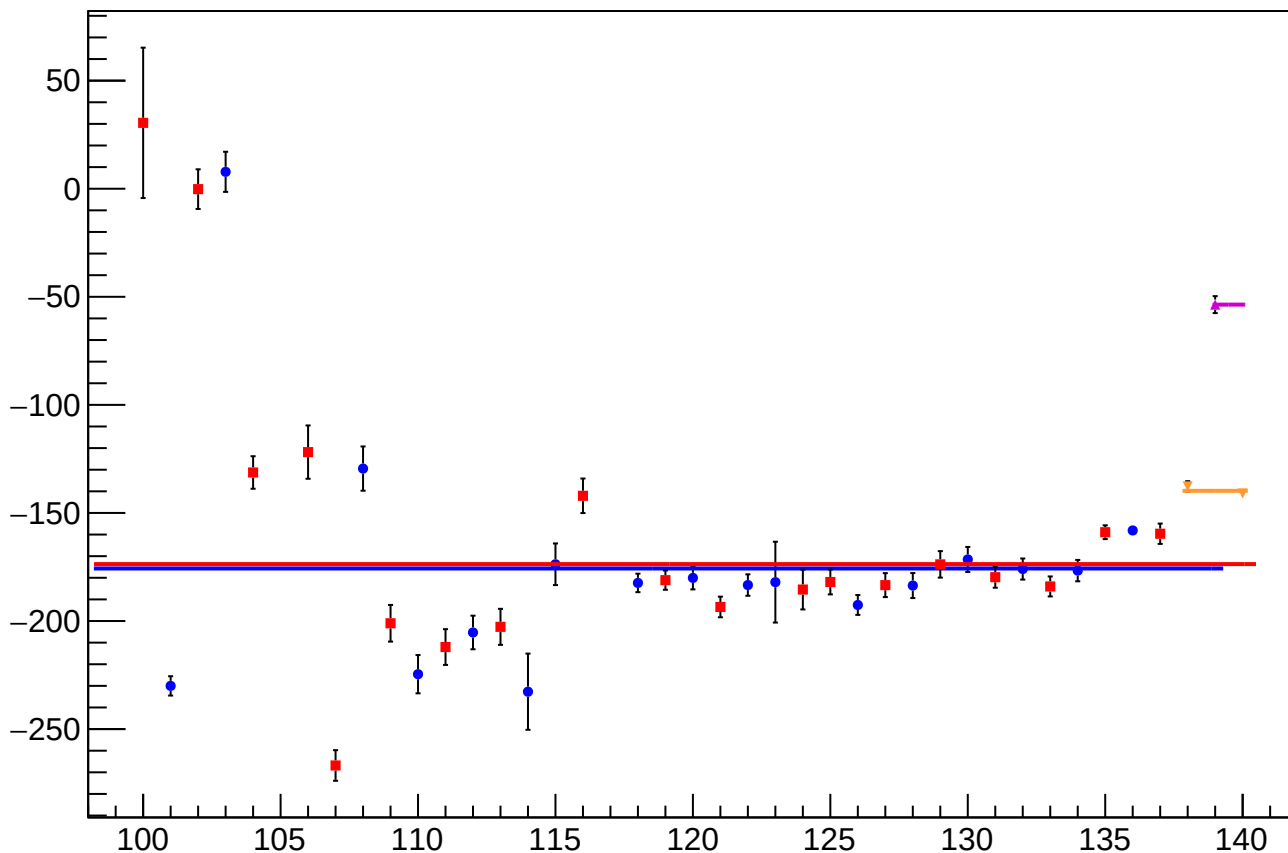
Right:  $-113.831 \pm 1.511$   $\chi^2/\text{NDF}$ : 415.6/35

In:  $-139.433 \pm 1.576$   $\chi^2/\text{NDF}$ : 471.7/17

Out:  $-133.500 \pm 1.255$   $\chi^2/\text{NDF}$ : 409.3/20

All:  $-135.802 \pm 0.982$   $\chi^2/\text{NDF}$ : 889.7/38

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:  $-139.772 \pm 1.481$   $\chi^2/\text{NDF}$ : 1.1/1

Right Out:  $-173.666 \pm 1.356$   $\chi^2/\text{NDF}$ : 737.7/18

Left In:  $-53.620 \pm 3.922$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-129.013 \pm 1.386$   $\chi^2/\text{NDF}$ : 423.5/2

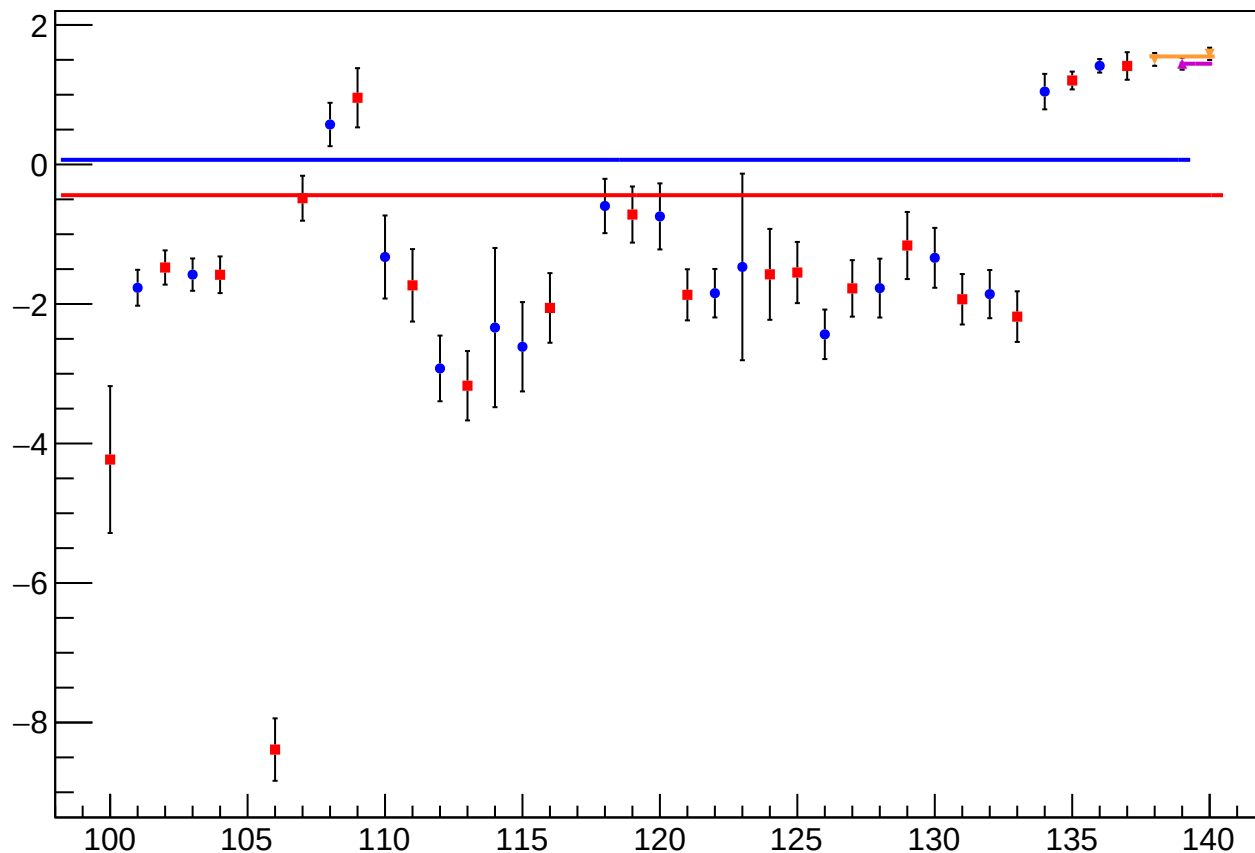
Right:  $-174.749 \pm 0.926$   $\chi^2/\text{NDF}$ : 1431.8/35

In:  $-164.148 \pm 1.206$   $\chi^2/\text{NDF}$ : 1570.3/17

Out:  $-158.217 \pm 1.000$   $\chi^2/\text{NDF}$ : 1023.7/20

All:  $-160.633 \pm 0.770$   $\chi^2/\text{NDF}$ : 2608.3/38

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.067 \pm 0.067$   $\chi^2/\text{NDF}$ : 526.1/16

Left Out:  $1.548 \pm 0.064$   $\chi^2/\text{NDF}$ : 0.4/1

Right Out:  $-0.440 \pm 0.071$   $\chi^2/\text{NDF}$ : 754.9/18

Left In:  $1.445 \pm 0.086$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.512 \pm 0.051$   $\chi^2/\text{NDF}$ : 1.3/2

Right:  $-0.172 \pm 0.049$   $\chi^2/\text{NDF}$ : 1308.0/35

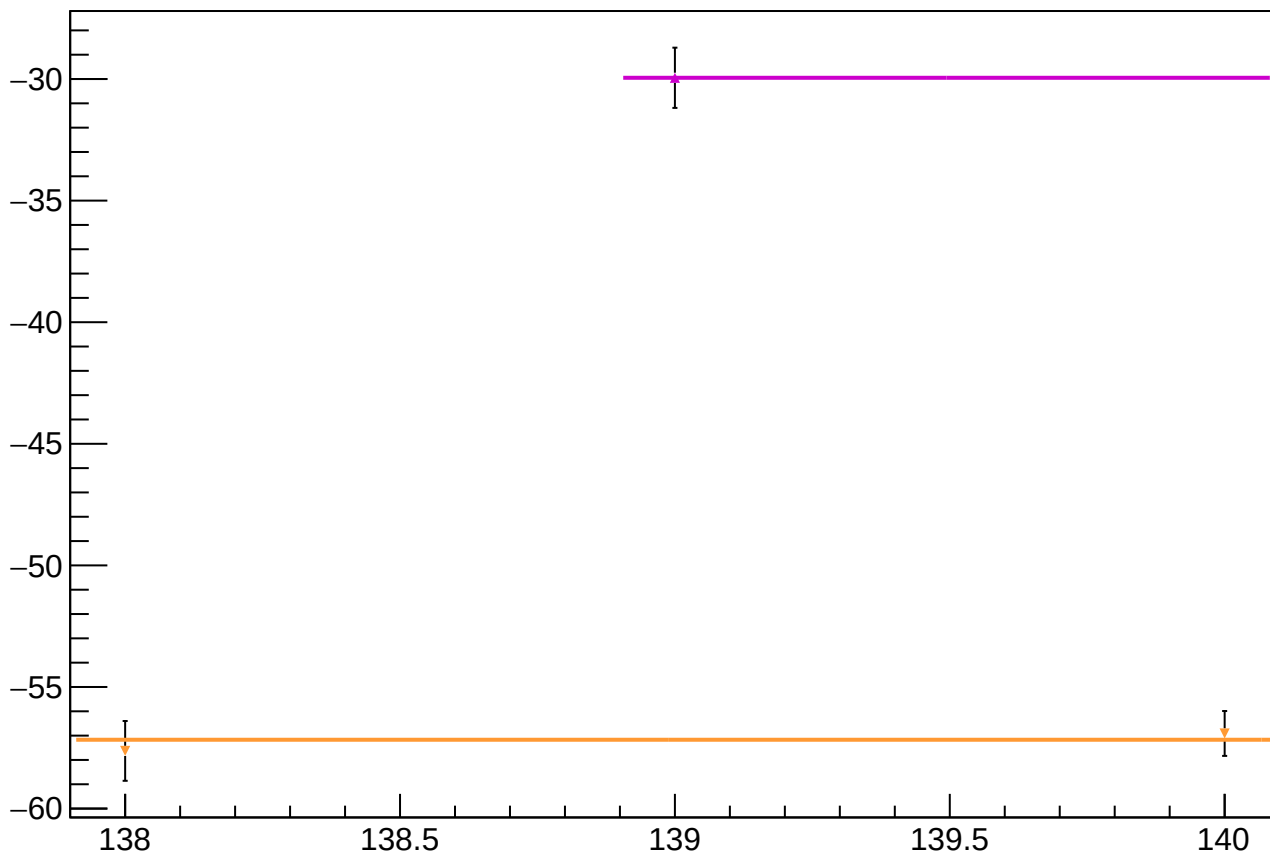
In:  $0.588 \pm 0.053$   $\chi^2/\text{NDF}$ : 686.2/17

Out:  $0.663 \pm 0.047$   $\chi^2/\text{NDF}$ : 1189.3/20

All:  $0.630 \pm 0.035$   $\chi^2/\text{NDF}$ : 1876.6/38



reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -57.169+/-0.738  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -29.949+/-1.238  $\chi^2/\text{NDF}$ : 0.0/0

Left: -50.036+/-0.634  $\chi^2/\text{NDF}$ : 356.8/2

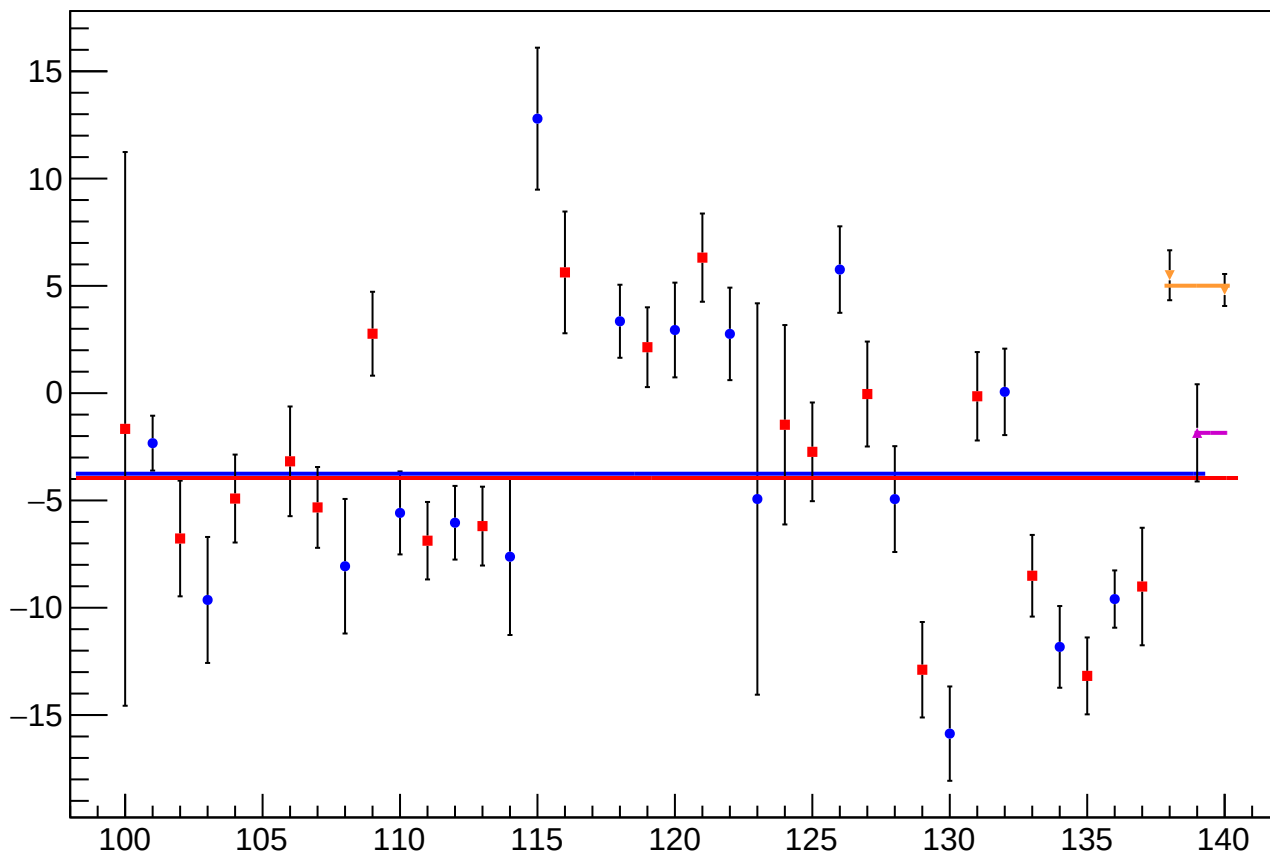
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -29.949+/-1.238  $\chi^2/\text{NDF}$ : 0.0/0

Out: -57.169+/-0.738  $\chi^2/\text{NDF}$ : 0.2/1

All: -50.036+/-0.634  $\chi^2/\text{NDF}$ : 356.8/2

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:  $5.008 \pm 0.628$   $\chi^2/\text{NDF}: 0.2/1$

Right Out:  $-3.954 \pm 0.507$   $\chi^2/\text{NDF}: 123.3/18$

Left In:  $-1.850 \pm 2.265$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $4.518 \pm 0.605$   $\chi^2/\text{NDF}: 8.8/2$

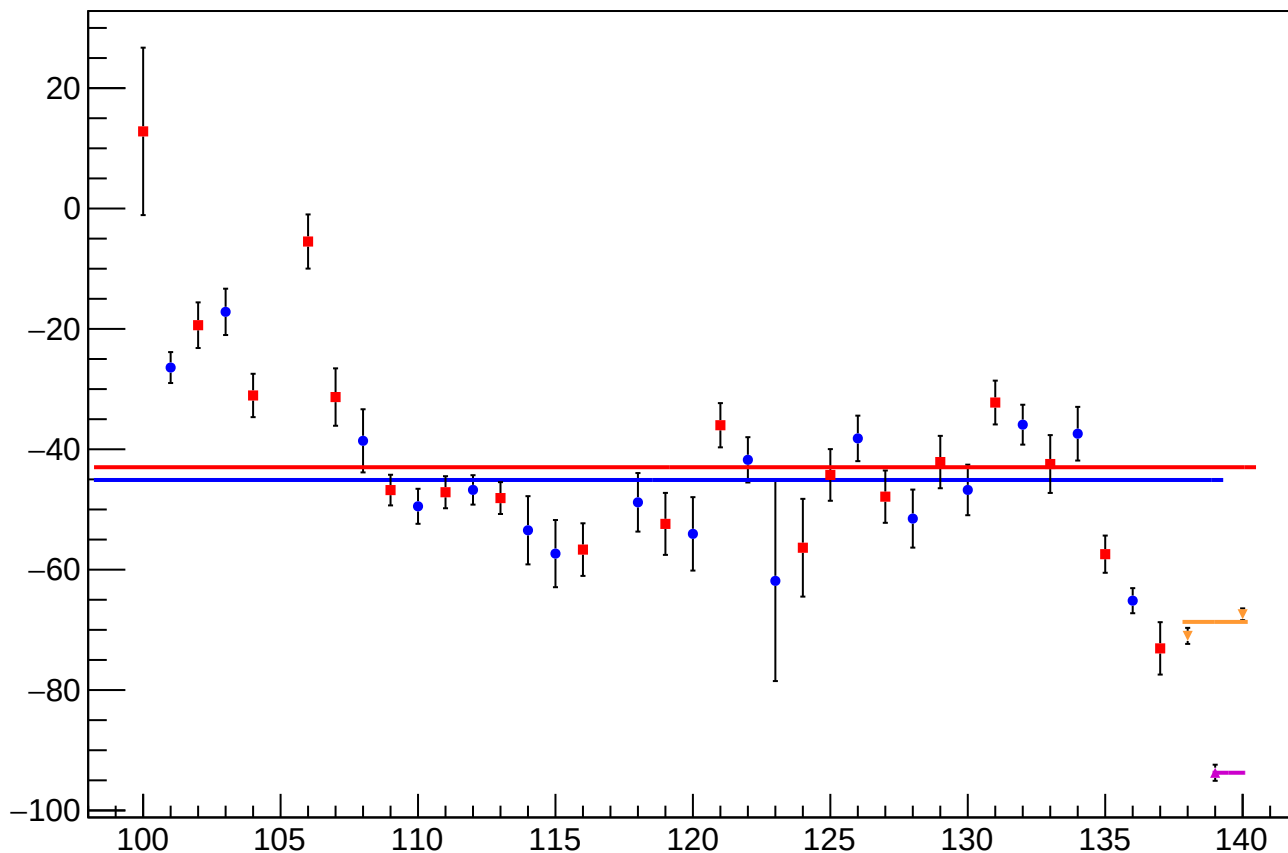
Right:  $-3.852 \pm 0.354$   $\chi^2/\text{NDF}: 288.7/35$

In:  $-3.667 \pm 0.484$   $\chi^2/\text{NDF}: 166.0/17$

Out:  $-0.417 \pm 0.394$   $\chi^2/\text{NDF}: 246.9/20$

All:  $-1.715 \pm 0.306$   $\chi^2/\text{NDF}: 440.0/38$

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:  $-68.678 \pm 0.791$   $\chi^2/\text{NDF}$ : 4.7/1

Right Out:  $-42.979 \pm 0.877$   $\chi^2/\text{NDF}$ : 248.9/18

Left In:  $-93.739 \pm 1.338$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-75.165 \pm 0.681$   $\chi^2/\text{NDF}$ : 264.8/2

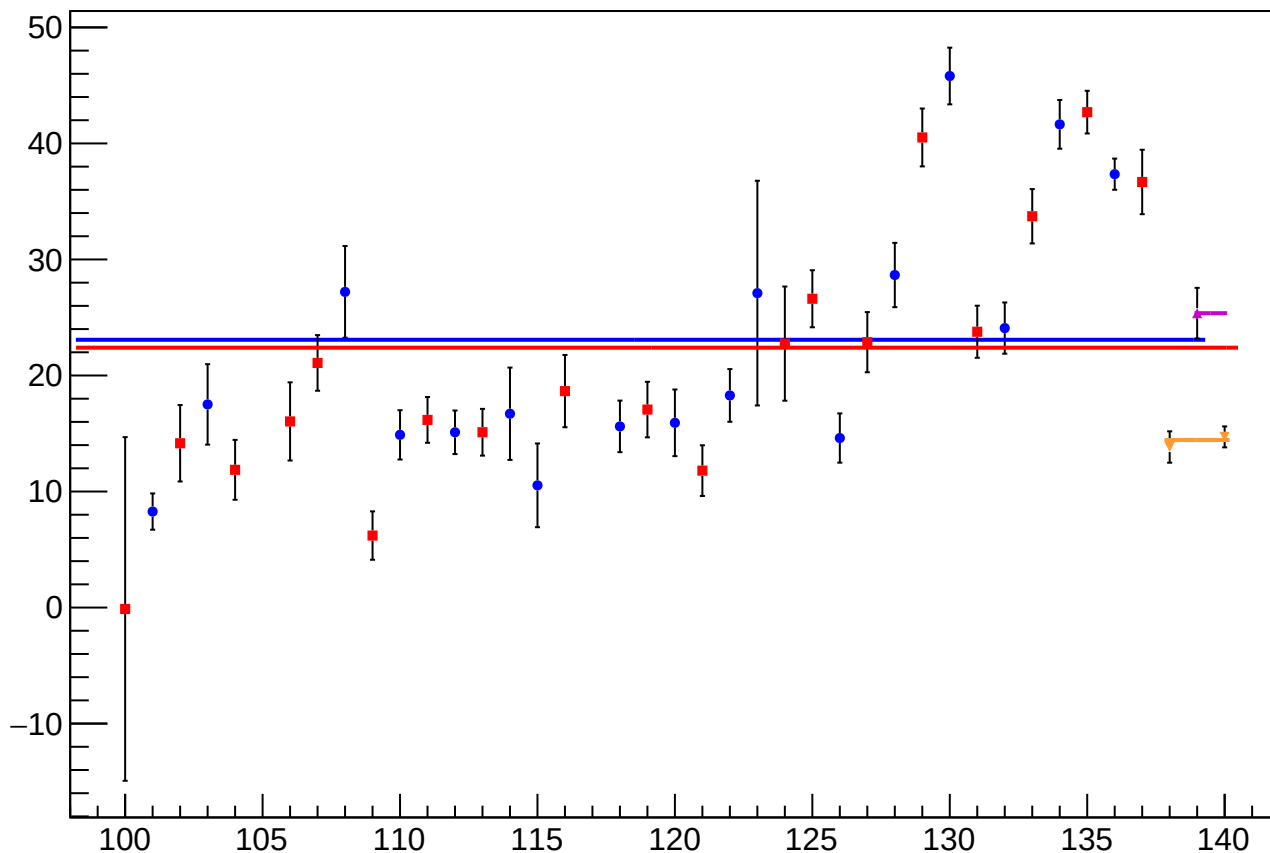
Right:  $-44.036 \pm 0.622$   $\chi^2/\text{NDF}$ : 481.6/35

In:  $-59.810 \pm 0.736$   $\chi^2/\text{NDF}$ : 1151.9/17

Out:  $-57.161 \pm 0.587$   $\chi^2/\text{NDF}$ : 727.0/20

All:  $-58.192 \pm 0.459$   $\chi^2/\text{NDF}$ : 1886.9/38

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: 14.439 $\pm$ 0.751  $\chi^2$ /NDF:0.3/1

Right Out: 22.397 $\pm$ 0.572  $\chi^2$ /NDF: 370.3/18

Left In: 25.370 $\pm$ 2.184  $\chi^2$ /NDF:0.0/0

Left: 15.594 $\pm$ 0.710  $\chi^2$ /NDF: 22.7/2

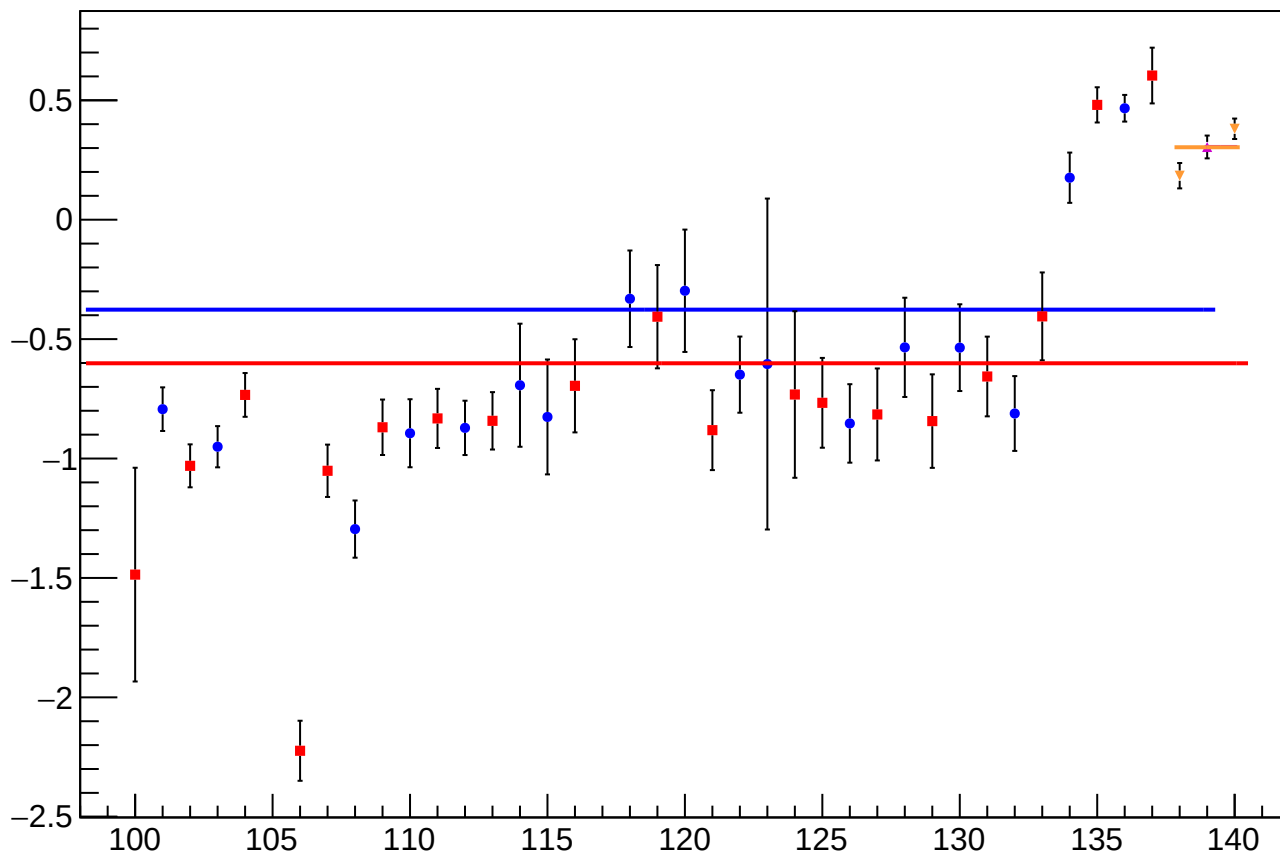
Right: 22.748 $\pm$ 0.399  $\chi^2$ /NDF: 832.1/35

In: 23.218 $\pm$ 0.539  $\chi^2$ /NDF:462.2/17

Out: 19.472 $\pm$ 0.455  $\chi^2$ /NDF:441.6/20

All: 21.033 $\pm$ 0.348  $\chi^2$ /NDF: 932.0/38

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:  $0.303 \pm 0.033$   $\chi^2/\text{NDF}$ : 8.3/1

Right Out:  $-0.601 \pm 0.030$   $\chi^2/\text{NDF}$ : 555.6/18

Left In:  $0.305 \pm 0.048$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.304 \pm 0.027$   $\chi^2/\text{NDF}$ : 8.3/2

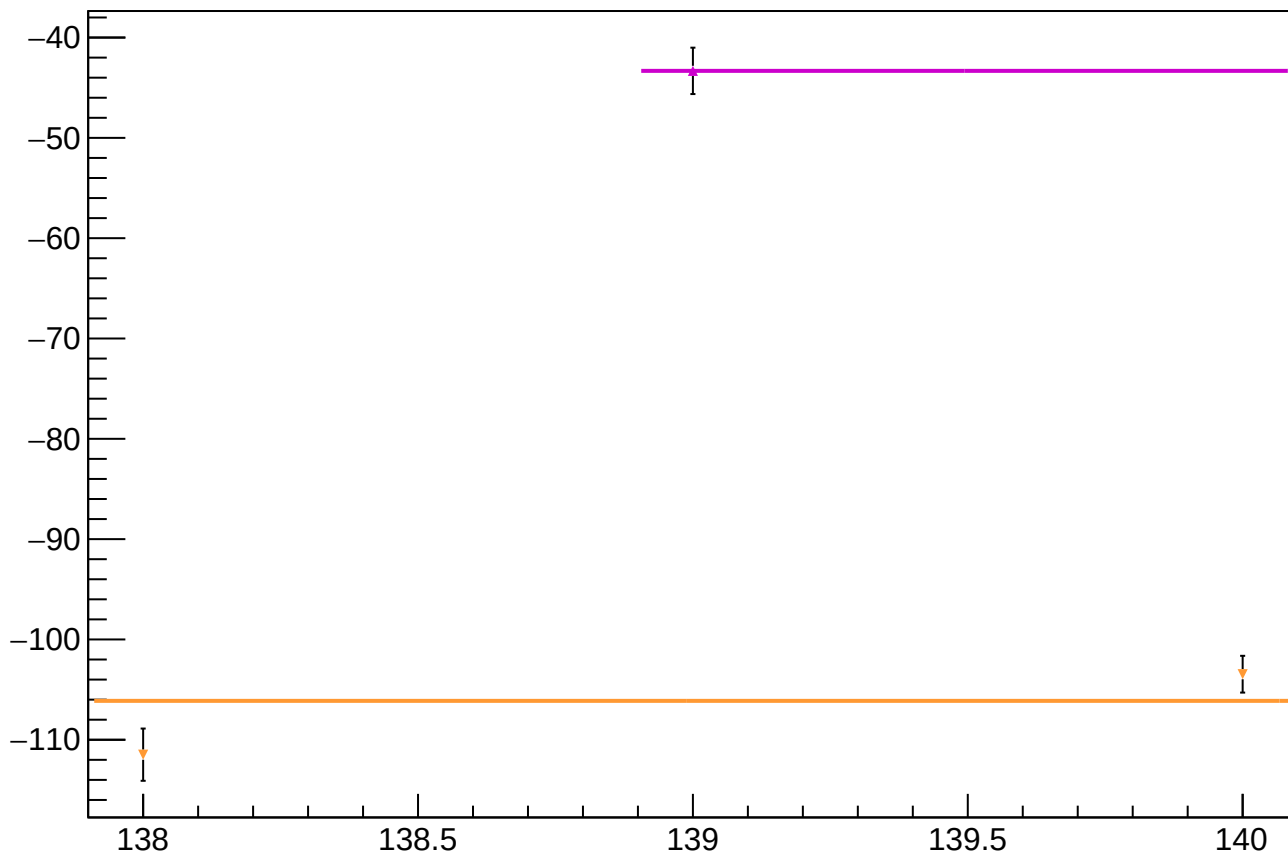
Right:  $-0.489 \pm 0.021$   $\chi^2/\text{NDF}$ : 1020.5/35

In:  $-0.183 \pm 0.025$   $\chi^2/\text{NDF}$ : 582.9/17

Out:  $-0.194 \pm 0.022$   $\chi^2/\text{NDF}$ : 968.7/20

All:  $-0.189 \pm 0.017$   $\chi^2/\text{NDF}$ : 1551.7/38

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: -106.121+/-1.499  $\chi^2/\text{NDF}$ : 6.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -43.321+/-2.312  $\chi^2/\text{NDF}$ : 0.0/0

Left: -87.539+/-1.258  $\chi^2/\text{NDF}$ : 525.9/2

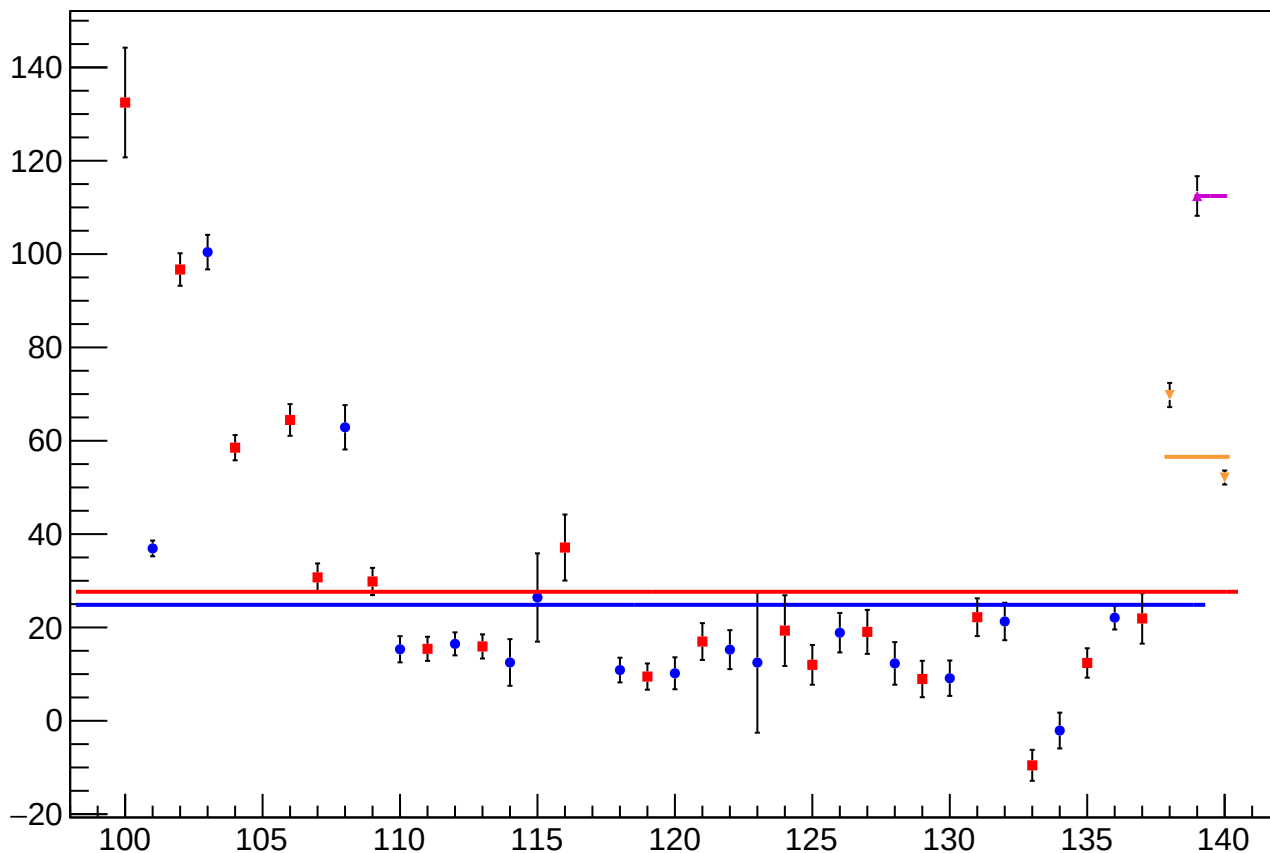
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -43.321+/-2.312  $\chi^2/\text{NDF}$ : 0.0/0

Out: -106.121+/-1.499  $\chi^2/\text{NDF}$ : 6.3/1

All: -87.539+/-1.258  $\chi^2/\text{NDF}$ : 525.9/2

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: 56.554 $\pm$ 1.298  $\chi^2$ /NDF:34.9/1

Right Out: 27.648 $\pm$ 0.810  $\chi^2$ /NDF: 1009.2/18

Left In: 112.445 $\pm$ 4.242  $\chi^2$ /NDF:0.0/0

Left: 61.337 $\pm$ 1.241  $\chi^2$ /NDF: 193.6/2

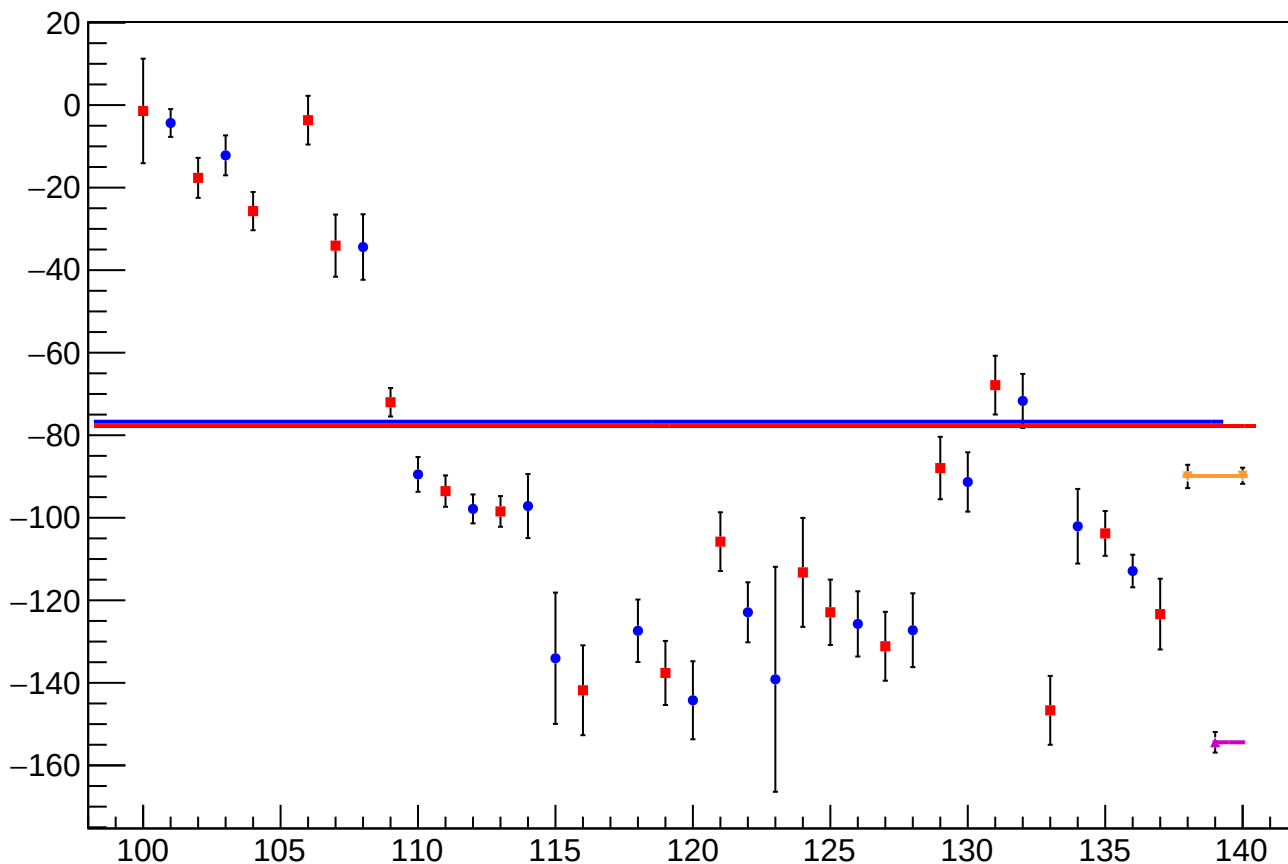
Right: 26.231 $\pm$ 0.570  $\chi^2$ /NDF: 1706.0/35

In: 27.862 $\pm$ 0.787  $\chi^2$ /NDF:1102.5/17

Out: 35.755 $\pm$ 0.687  $\chi^2$ /NDF:1400.9/20

All: 32.339 $\pm$ 0.518  $\chi^2$ /NDF: 2560.5/38

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:  $-89.868 \pm 1.606$   $\chi^2/\text{NDF}$ : 0.0/1

Right Out:  $-77.773 \pm 1.352$   $\chi^2/\text{NDF}$ : 871.8/18

Left In:  $-154.401 \pm 2.496$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-108.754 \pm 1.350$   $\chi^2/\text{NDF}$ : 472.7/2

Right:  $-77.273 \pm 0.977$   $\chi^2/\text{NDF}$ : 1914.1/35

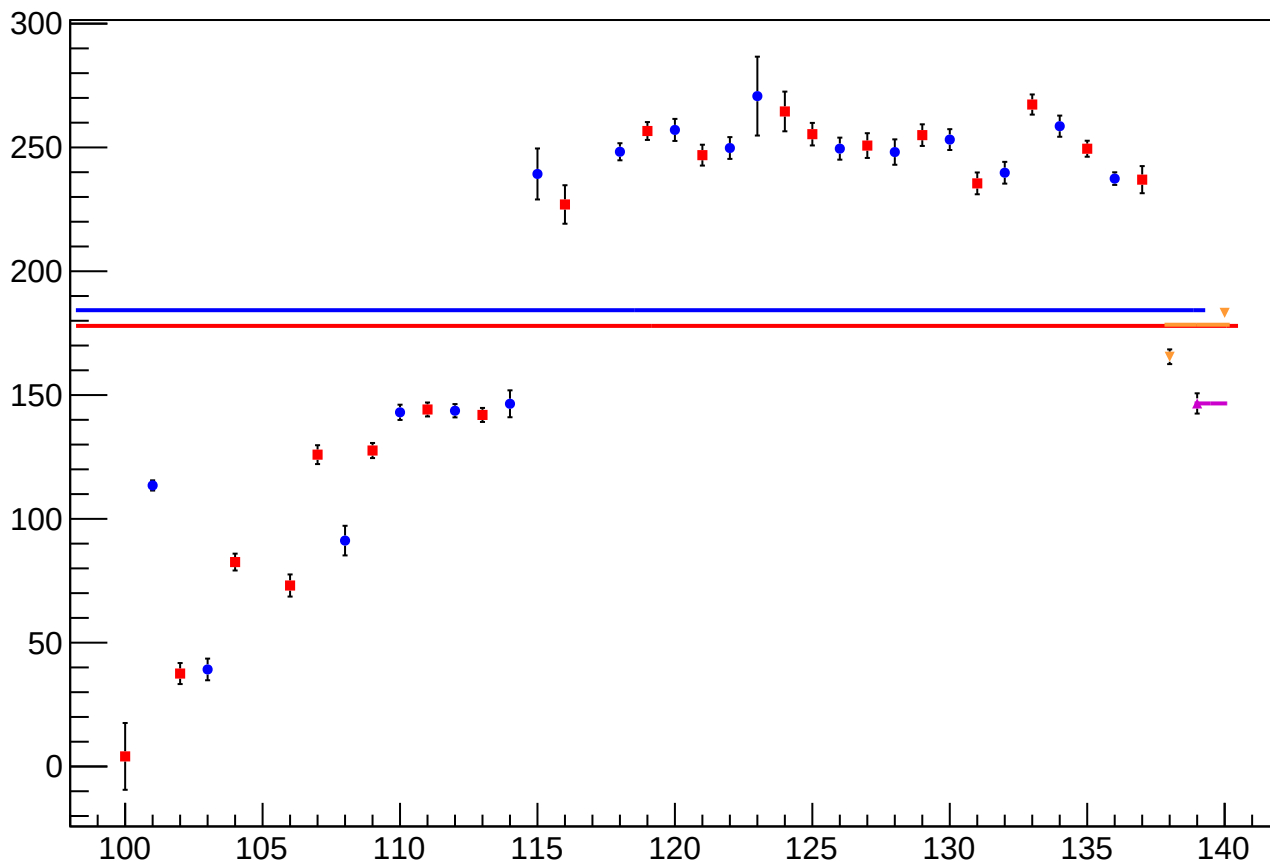
In:  $-95.560 \pm 1.229$   $\chi^2/\text{NDF}$ : 1775.5/17

Out:  $-82.792 \pm 1.034$   $\chi^2/\text{NDF}$ : 905.0/20

All:  $-88.085 \pm 0.791$   $\chi^2/\text{NDF}$ : 2743.7/38



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: 178.407 $\pm$ 1.546  $\chi^2$ /NDF:25.9/1

Right Out: 177.930 $\pm$ 0.924  $\chi^2$ /NDF: 6330.9/18

Left In: 146.616 $\pm$ 4.091  $\chi^2$ /NDF:0.0/0

Left: 174.435 $\pm$ 1.446  $\chi^2$ /NDF: 78.8/2

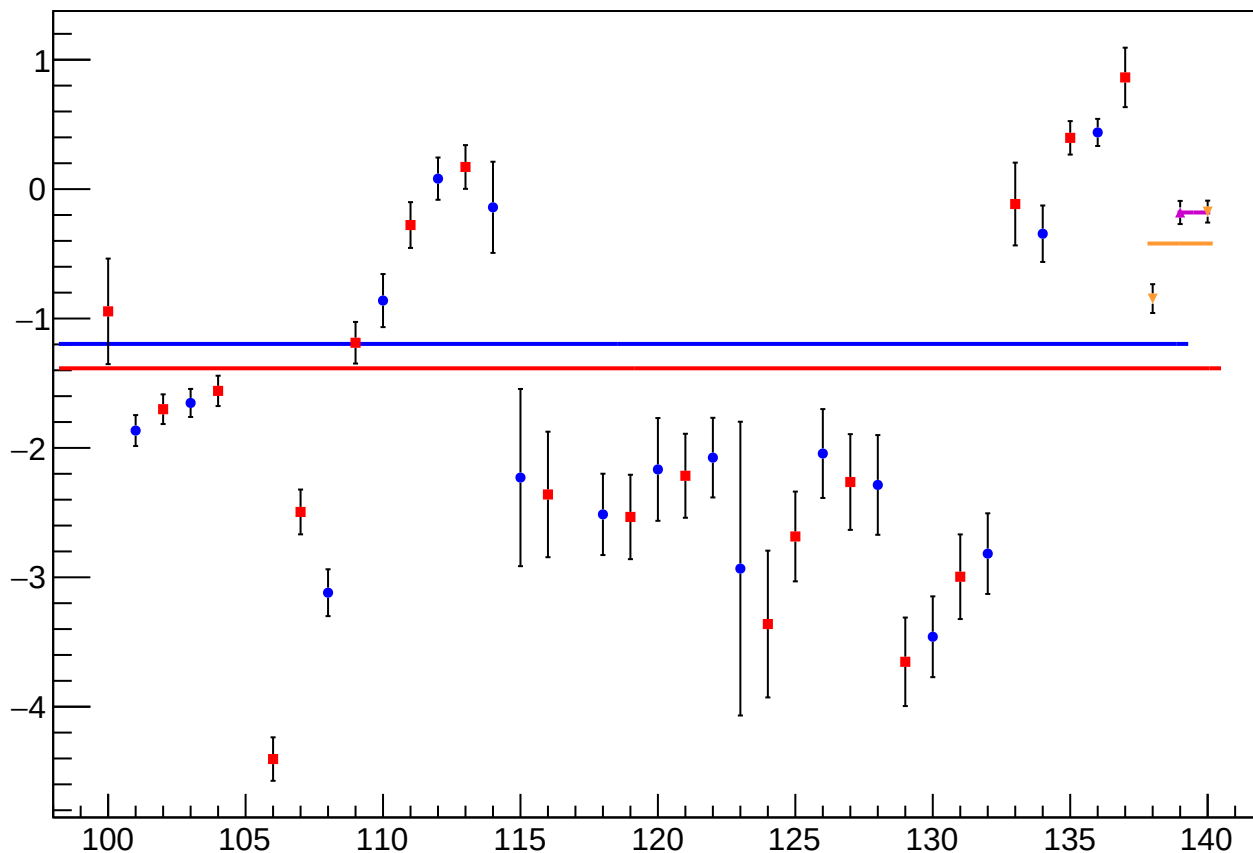
Right: 181.136 $\pm$ 0.650  $\chi^2$ /NDF: 11755.7/35

In: 182.482 $\pm$ 0.892  $\chi^2$ /NDF:5481.7/17

Out: 178.056 $\pm$ 0.793  $\chi^2$ /NDF:6357.0/20

All: 180.011 $\pm$ 0.593  $\chi^2$ /NDF: 11852.4/38

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:  $-0.420 \pm 0.067$   $\chi^2/\text{NDF}$ : 23.1/1

Right Out:  $-1.385 \pm 0.046$   $\chi^2/\text{NDF}$ : 924.4/18

Left In:  $-0.181 \pm 0.089$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.334 \pm 0.054$   $\chi^2/\text{NDF}$ : 27.7/2

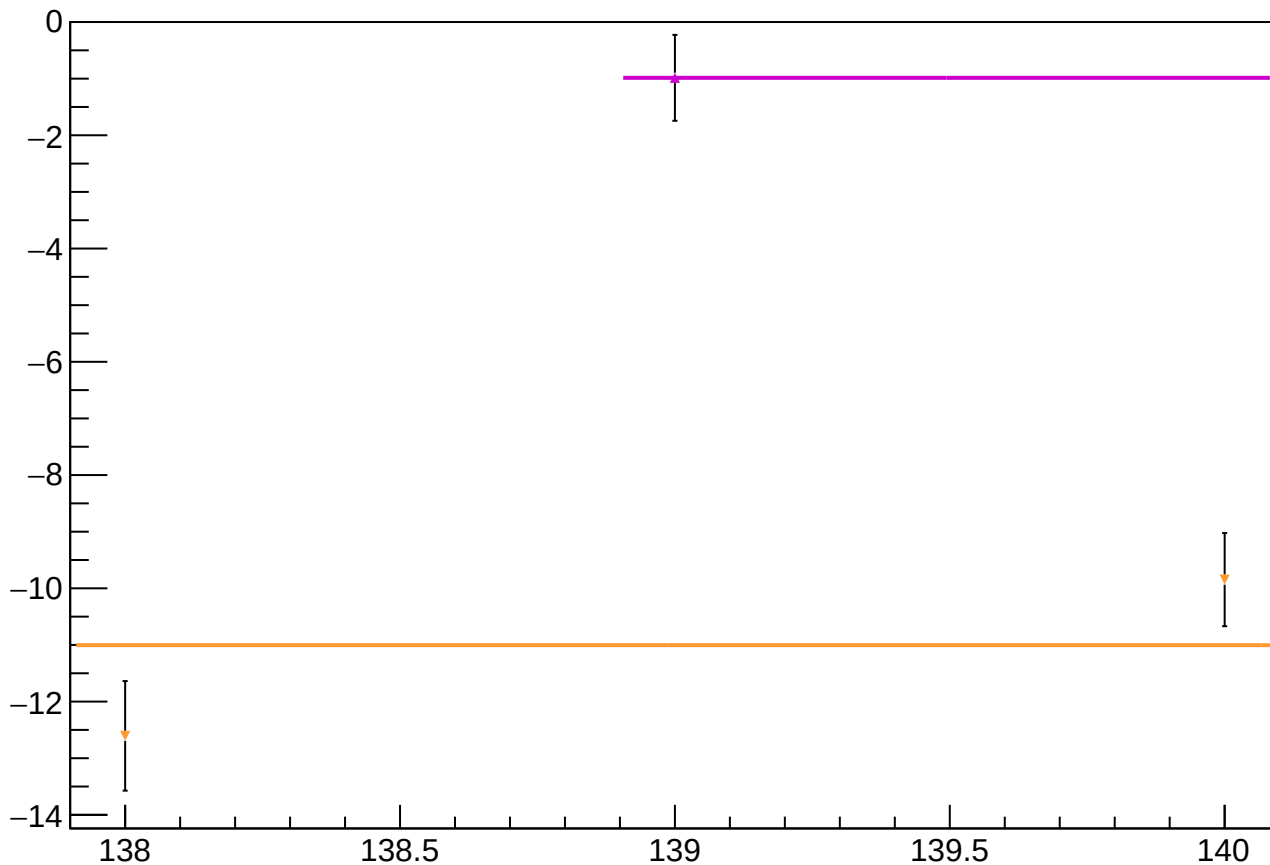
Right:  $-1.295 \pm 0.033$   $\chi^2/\text{NDF}$ : 1555.6/35

In:  $-0.969 \pm 0.042$   $\chi^2/\text{NDF}$ : 723.1/17

Out:  $-1.080 \pm 0.038$   $\chi^2/\text{NDF}$ : 1087.8/20

All:  $-1.031 \pm 0.028$   $\chi^2/\text{NDF}$ : 1814.7/38

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: -11.004+/-0.627  $\chi^2/\text{NDF}$ : 4.7/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.986+/-0.759  $\chi^2/\text{NDF}$ : 0.0/0

Left: -6.940+/-0.483  $\chi^2/\text{NDF}$ : 108.3/2

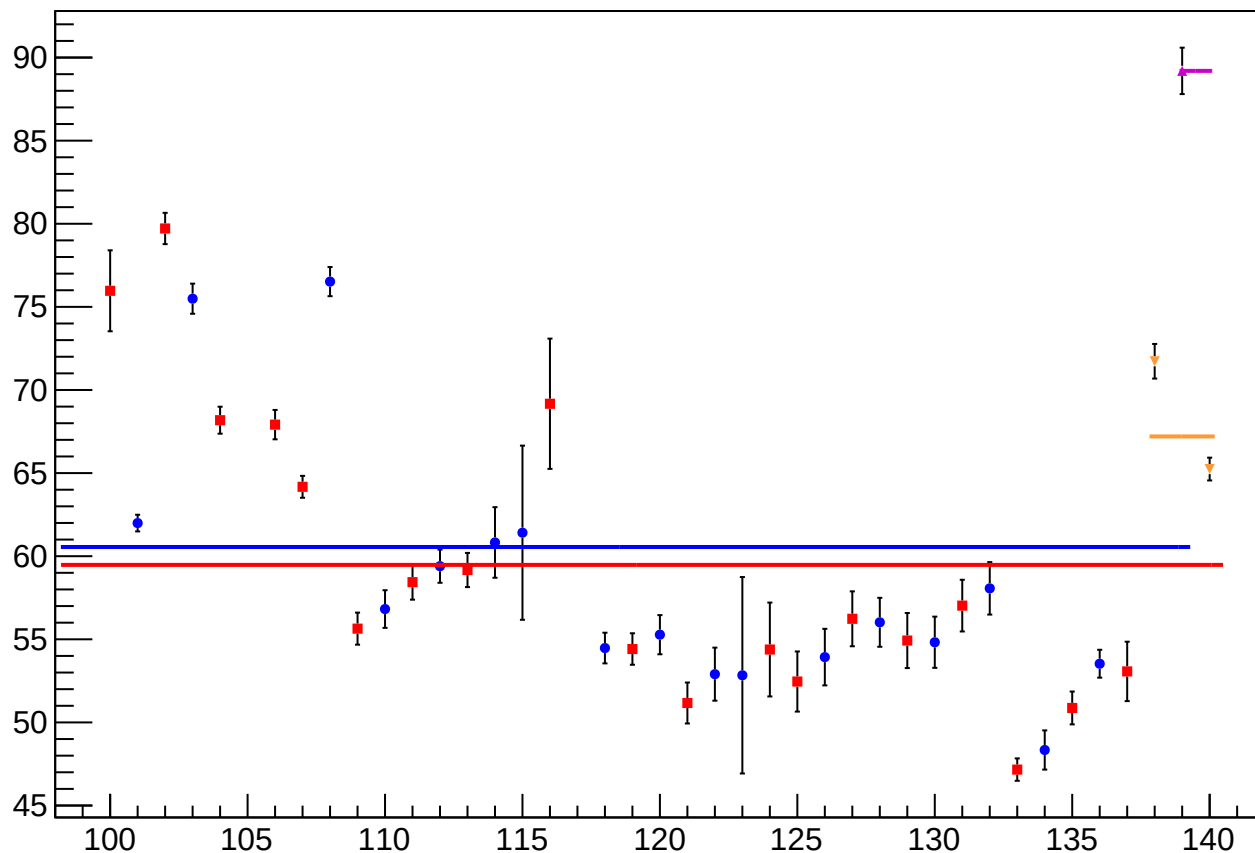
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.986+/-0.759  $\chi^2/\text{NDF}$ : 0.0/0

Out: -11.004+/-0.627  $\chi^2/\text{NDF}$ : 4.7/1

All: -6.940+/-0.483  $\chi^2/\text{NDF}$ : 108.3/2

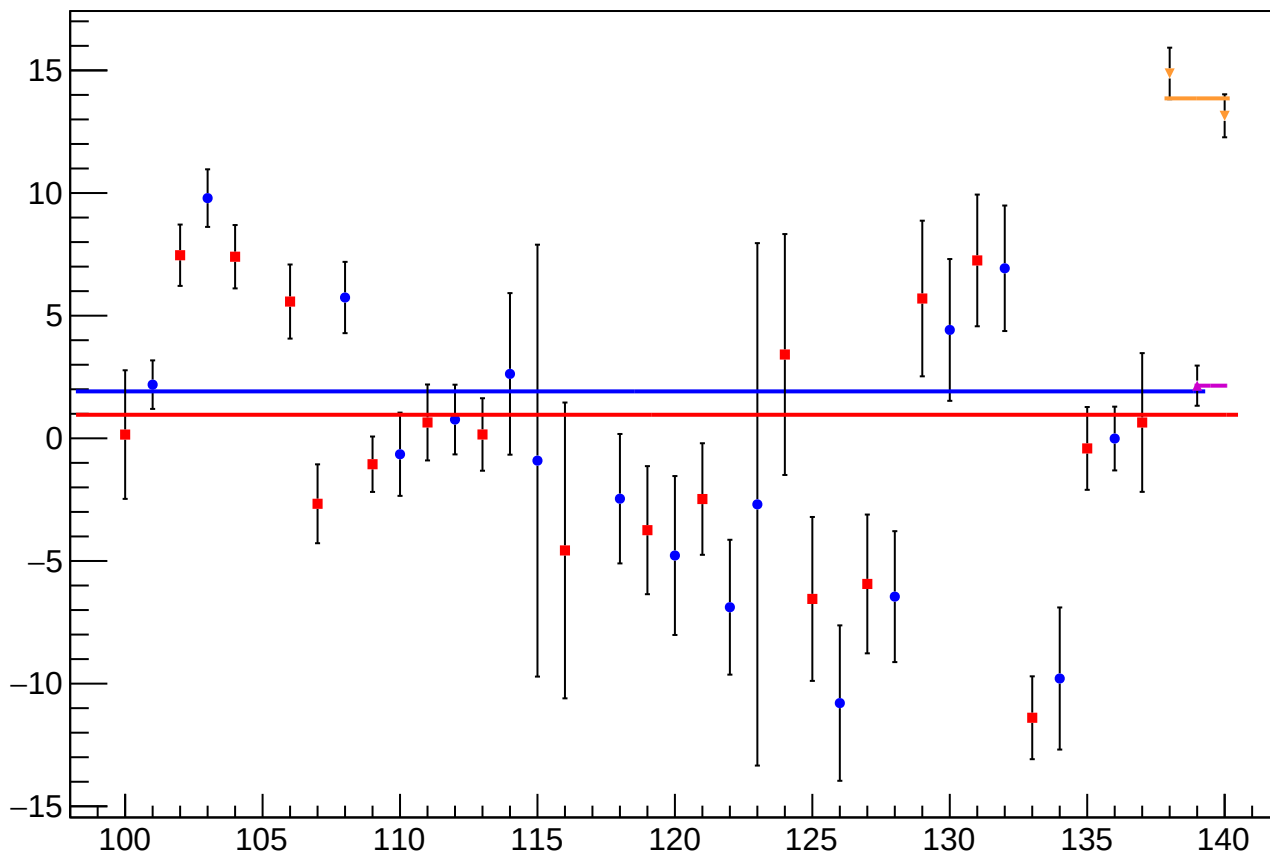
reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 60.554+/-0.262  $\chi^2/\text{NDF}$ : 930.8/16  
 Left Out: 67.205+/-0.573  $\chi^2/\text{NDF}$ : 27.0/1  
 Right Out: 59.477+/-0.248  $\chi^2/\text{NDF}$ : 1317.0/18  
 Left In: 89.198+/-1.396  $\chi^2/\text{NDF}$ : 0.0/0

Left: 70.376+/-0.530  $\chi^2/\text{NDF}$ : 239.4/2  
 Right: 59.987+/-0.180  $\chi^2/\text{NDF}$ : 2256.7/35  
 In: 61.525+/-0.257  $\chi^2/\text{NDF}$ : 1337.5/17  
 Out: 60.696+/-0.228  $\chi^2/\text{NDF}$ : 1497.3/20  
 All: 61.060+/-0.170  $\chi^2/\text{NDF}$ : 2840.6/38

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 1.914+/-0.458  $\chi^2/\text{NDF}$ : 121.6/16

Left Out: 13.858+/-0.673  $\chi^2/\text{NDF}$ : 1.6/1

Right Out: 0.960+/-0.424  $\chi^2/\text{NDF}$ : 149.5/18

Left In: 2.147+/-0.819  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9.136+/-0.520  $\chi^2/\text{NDF}$ : 123.7/2

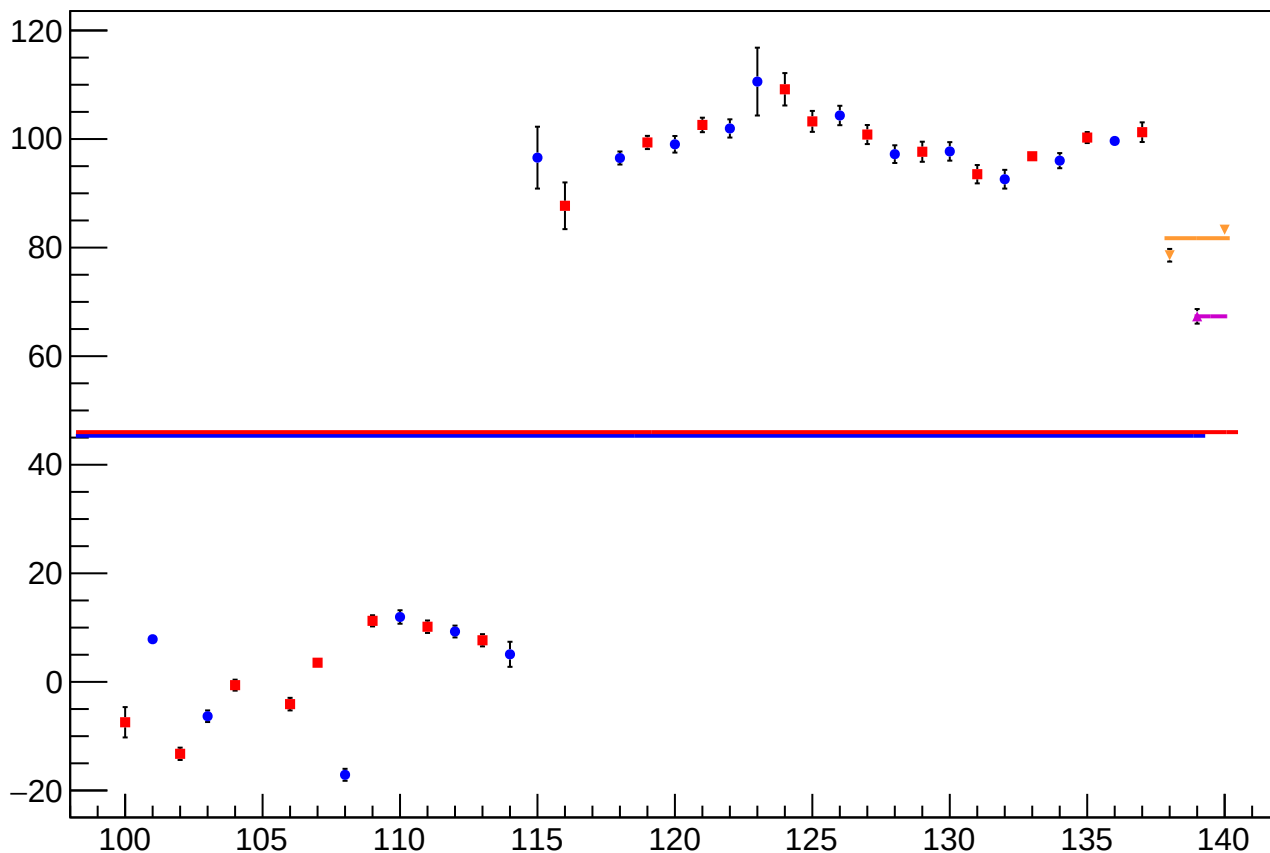
Right: 1.401+/-0.311  $\chi^2/\text{NDF}$ : 273.4/35

In: 1.969+/-0.400  $\chi^2/\text{NDF}$ : 121.7/17

Out: 4.628+/-0.359  $\chi^2/\text{NDF}$ : 414.0/20

All: 3.441+/-0.267  $\chi^2/\text{NDF}$ : 560.1/38

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 45.344+/-0.303  $\chi^2/\text{NDF}$ : 25071.0/16

Left Out: 81.733+/-0.674  $\chi^2/\text{NDF}$ :10.9/1

Right Out: 46.007+/-0.289  $\chi^2/\text{NDF}$ : 28219.9/18

Left In: 67.340+/-1.347  $\chi^2/\text{NDF}$ :0.0/0

Left: 78.849+/-0.603  $\chi^2/\text{NDF}$ : 102.2/2

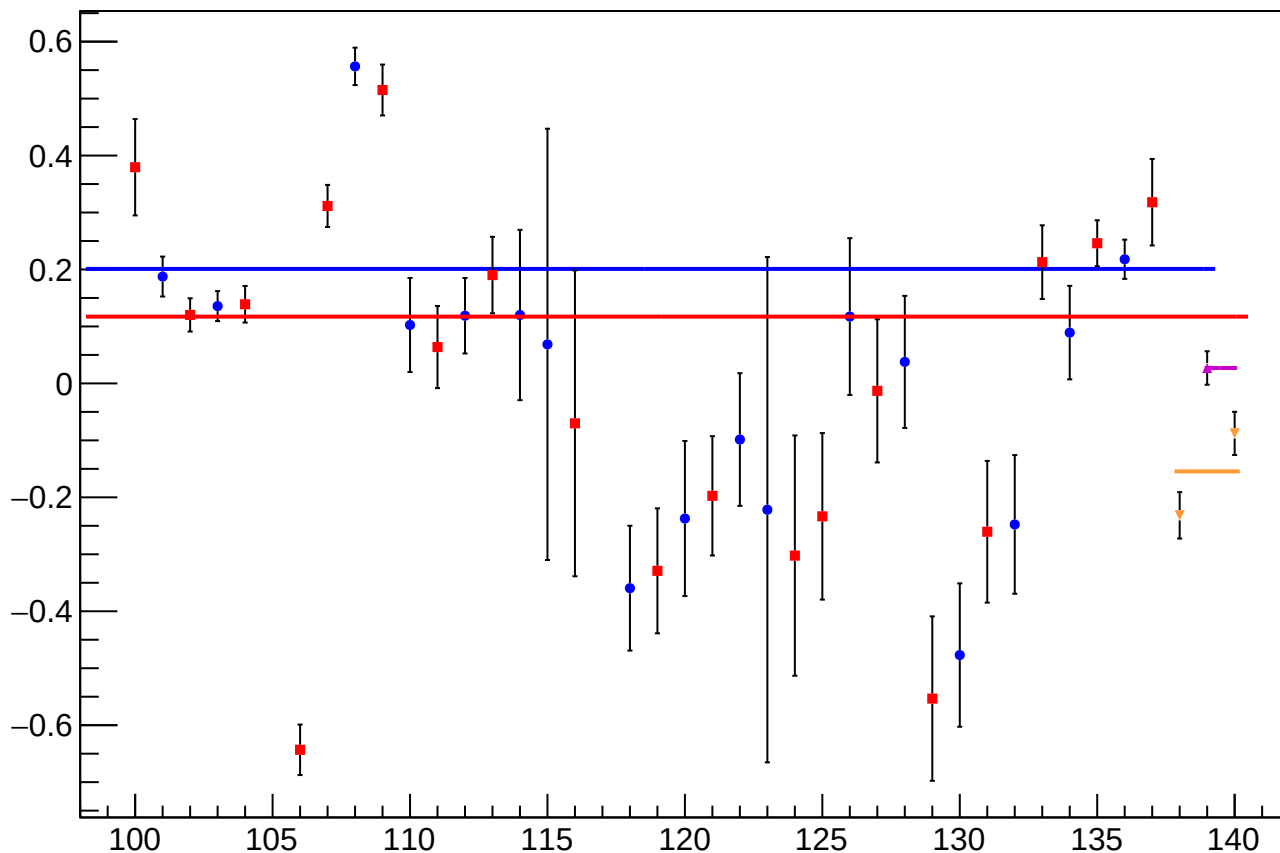
Right: 45.691+/-0.209  $\chi^2/\text{NDF}$ : 53293.4/35

In: 46.405+/-0.296  $\chi^2/\text{NDF}$ :25324.9/17

Out: 51.570+/-0.266  $\chi^2/\text{NDF}$ :30602.7/20

All: 49.261+/-0.198  $\chi^2/\text{NDF}$ : 56096.2/38

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:  $-0.154 \pm 0.028$   $\chi^2/\text{NDF}$ : 6.7/1

Right Out:  $0.117 \pm 0.013$   $\chi^2/\text{NDF}$ : 500.1/18

Left In:  $0.027 \pm 0.029$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.069 \pm 0.020$   $\chi^2/\text{NDF}$ : 26.8/2

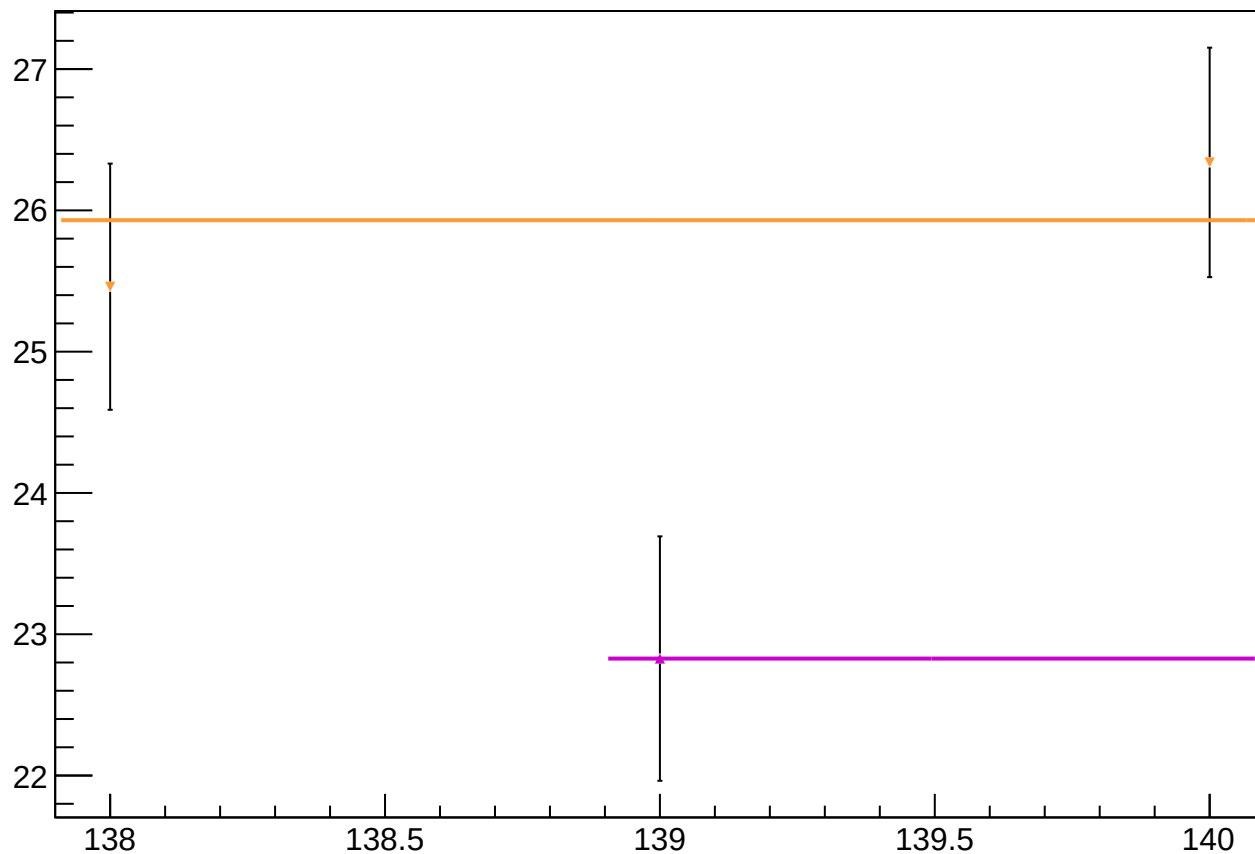
Right:  $0.156 \pm 0.010$   $\chi^2/\text{NDF}$ : 737.1/35

In:  $0.169 \pm 0.013$   $\chi^2/\text{NDF}$ : 246.3/17

Out:  $0.068 \pm 0.012$   $\chi^2/\text{NDF}$ : 585.4/20

All:  $0.115 \pm 0.009$   $\chi^2/\text{NDF}$ : 865.5/38

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: 25.931+/-0.594  $\chi^2/\text{NDF}$ : 0.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 22.828+/-0.865  $\chi^2/\text{NDF}$ : 0.0/0

Left: 24.936+/-0.490  $\chi^2/\text{NDF}$ : 9.3/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

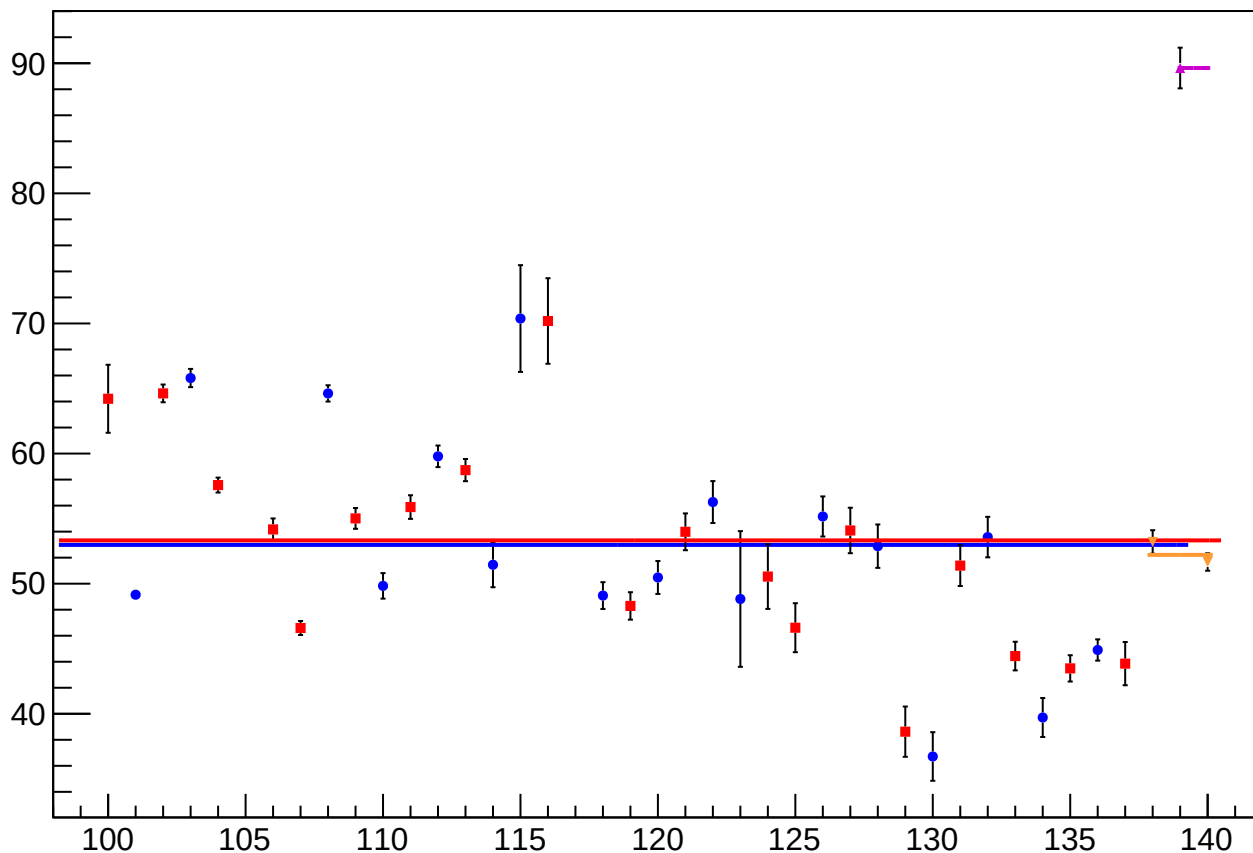
In: 22.828+/-0.865  $\chi^2/\text{NDF}$ : 0.0/0

Out: 25.931+/-0.594  $\chi^2/\text{NDF}$ : 0.5/1

All: 24.936+/-0.490  $\chi^2/\text{NDF}$ : 9.3/2



reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 52.981+/-0.210  $\chi^2/\text{NDF}$ : 1197.8/16

Left Out: 52.213+/-0.538  $\chi^2/\text{NDF}$ : 1.9/1

Right Out: 53.328+/-0.227  $\chi^2/\text{NDF}$ : 872.7/18

Left In: 89.634+/-1.563  $\chi^2/\text{NDF}$ : 0.0/0

Left: 56.178+/-0.509  $\chi^2/\text{NDF}$ : 514.2/2

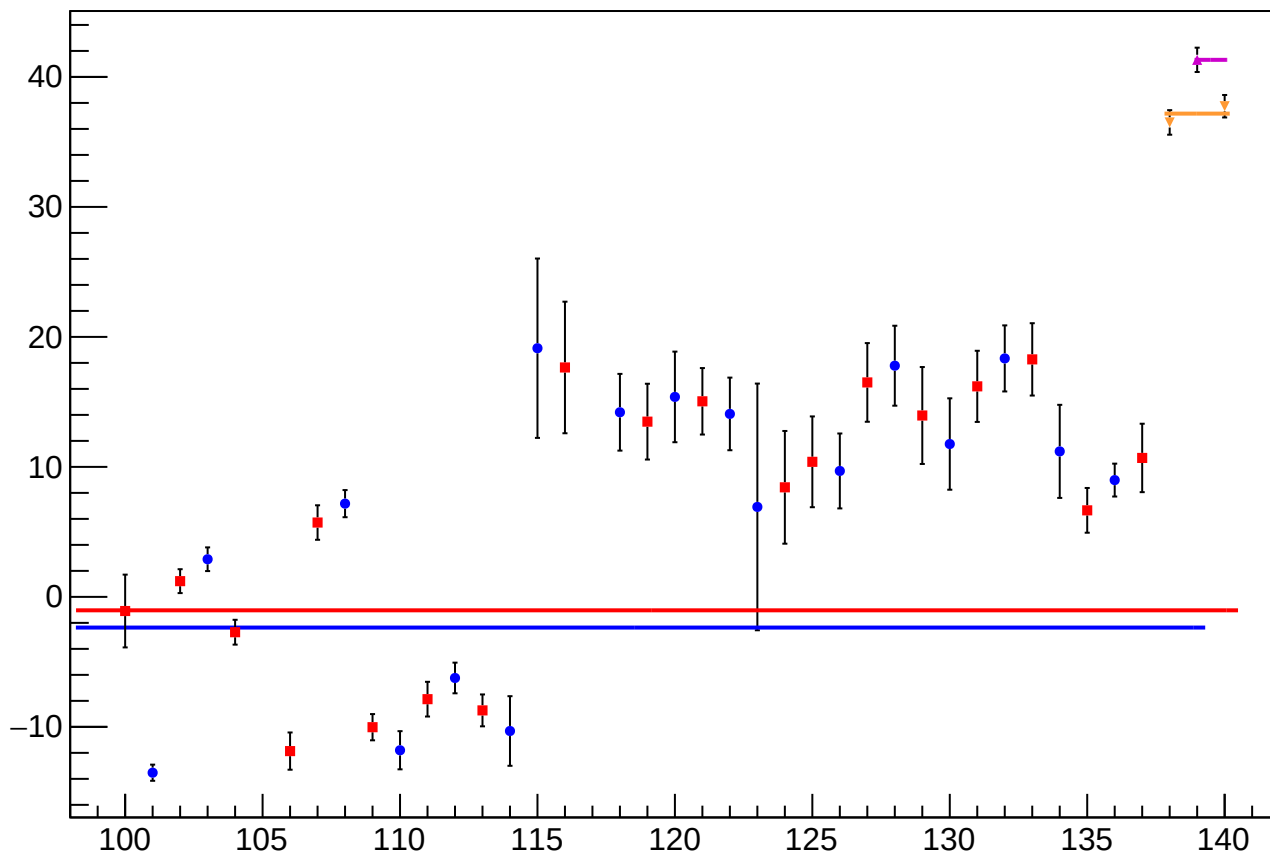
Right: 53.141+/-0.154  $\chi^2/\text{NDF}$ : 2071.7/35

In: 53.632+/-0.208  $\chi^2/\text{NDF}$ : 1737.8/17

Out: 53.160+/-0.209  $\chi^2/\text{NDF}$ : 878.2/20

All: 53.396+/-0.148  $\chi^2/\text{NDF}$ : 2618.6/38

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:  $37.178 \pm 0.638$   $\chi^2/\text{NDF}: 0.9/1$

Right Out:  $-1.035 \pm 0.377$   $\chi^2/\text{NDF}: 507.7/18$

Left In:  $41.315 \pm 0.936$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $38.490 \pm 0.527$   $\chi^2/\text{NDF}: 14.3/2$

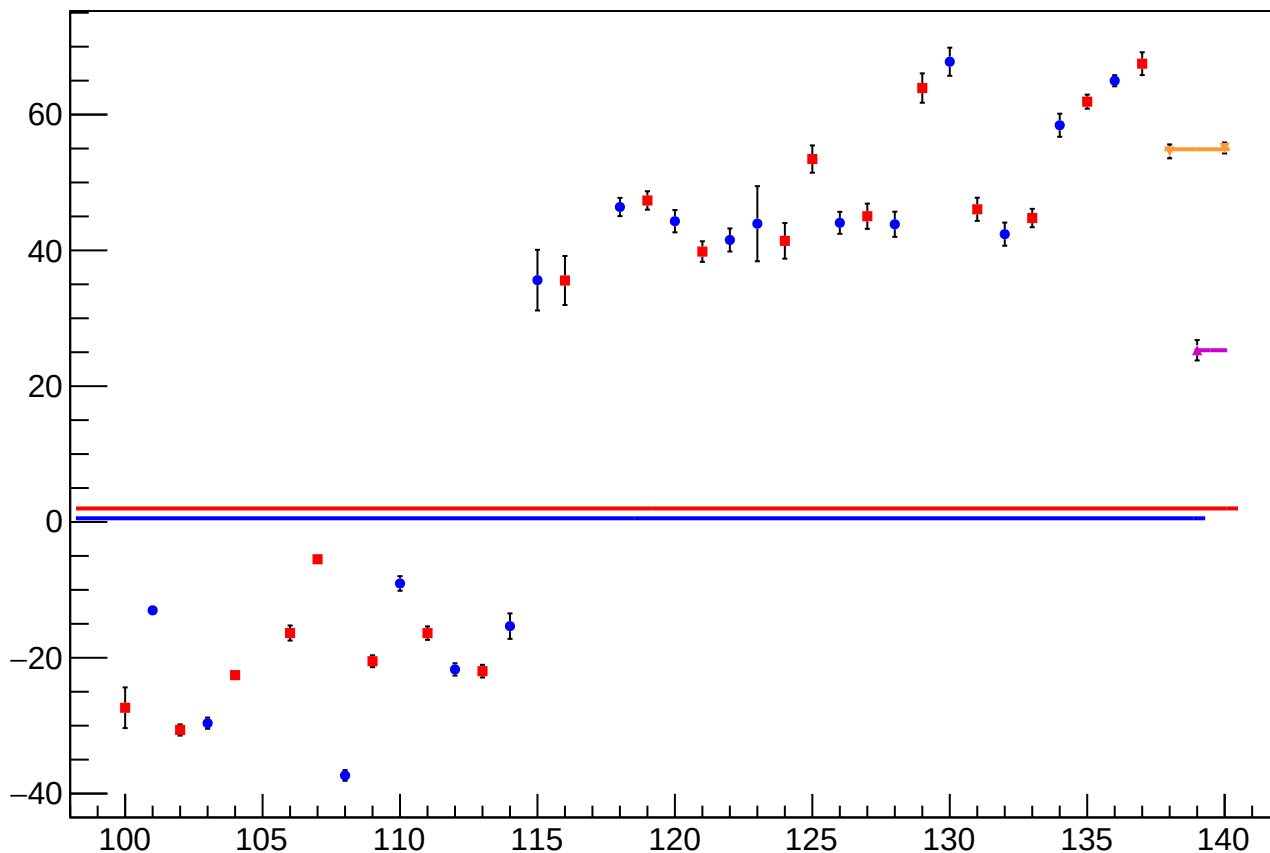
Right:  $-1.721 \pm 0.262$   $\chi^2/\text{NDF}: 1355.0/35$

In:  $3.370 \pm 0.339$   $\chi^2/\text{NDF}: 2731.7/17$

Out:  $8.851 \pm 0.325$   $\chi^2/\text{NDF}: 3167.8/20$

All:  $6.231 \pm 0.234$   $\chi^2/\text{NDF}: 6035.9/38$

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: 54.889+/-0.634  $\chi^2/\text{NDF}$ : 0.1/1

Right Out: 1.990+/-0.267  $\chi^2/\text{NDF}$ : 15476.7/18

Left In: 25.291+/-1.505  $\chi^2/\text{NDF}$ : 0.0/0

Left: 50.426+/-0.585  $\chi^2/\text{NDF}$ : 328.5/2

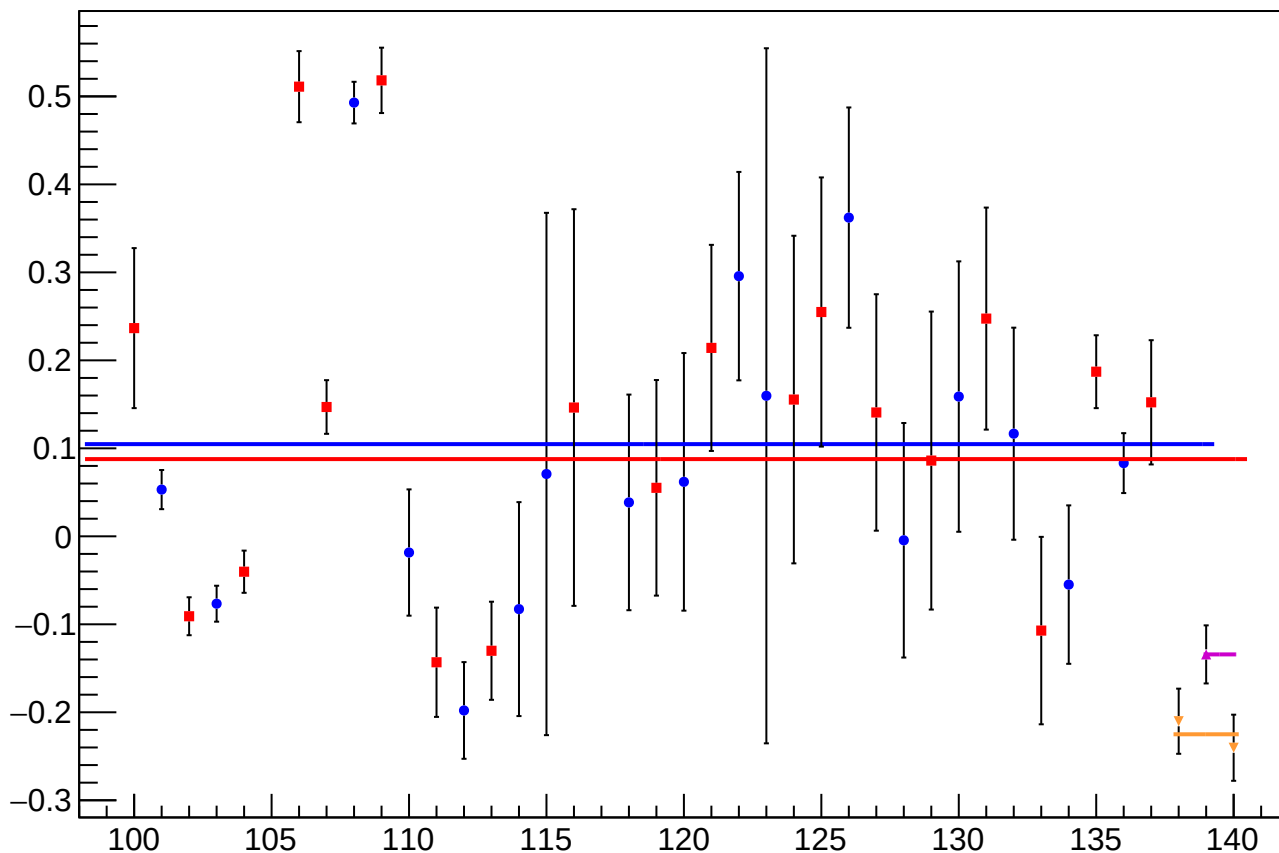
Right: 1.210+/-0.181  $\chi^2/\text{NDF}$ : 33916.4/35

In: 1.189+/-0.243  $\chi^2/\text{NDF}$ : 18687.1/17

Out: 9.927+/-0.246  $\chi^2/\text{NDF}$ : 21388.1/20

All: 5.518+/-0.173  $\chi^2/\text{NDF}$ : 40713.4/38

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:  $-0.225 \pm 0.026$   $\chi^2/\text{NDF}$ : 0.3/1

Right Out:  $0.088 \pm 0.011$   $\chi^2/\text{NDF}$ : 391.0/18

Left In:  $-0.134 \pm 0.033$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.190 \pm 0.021$   $\chi^2/\text{NDF}$ : 4.9/2

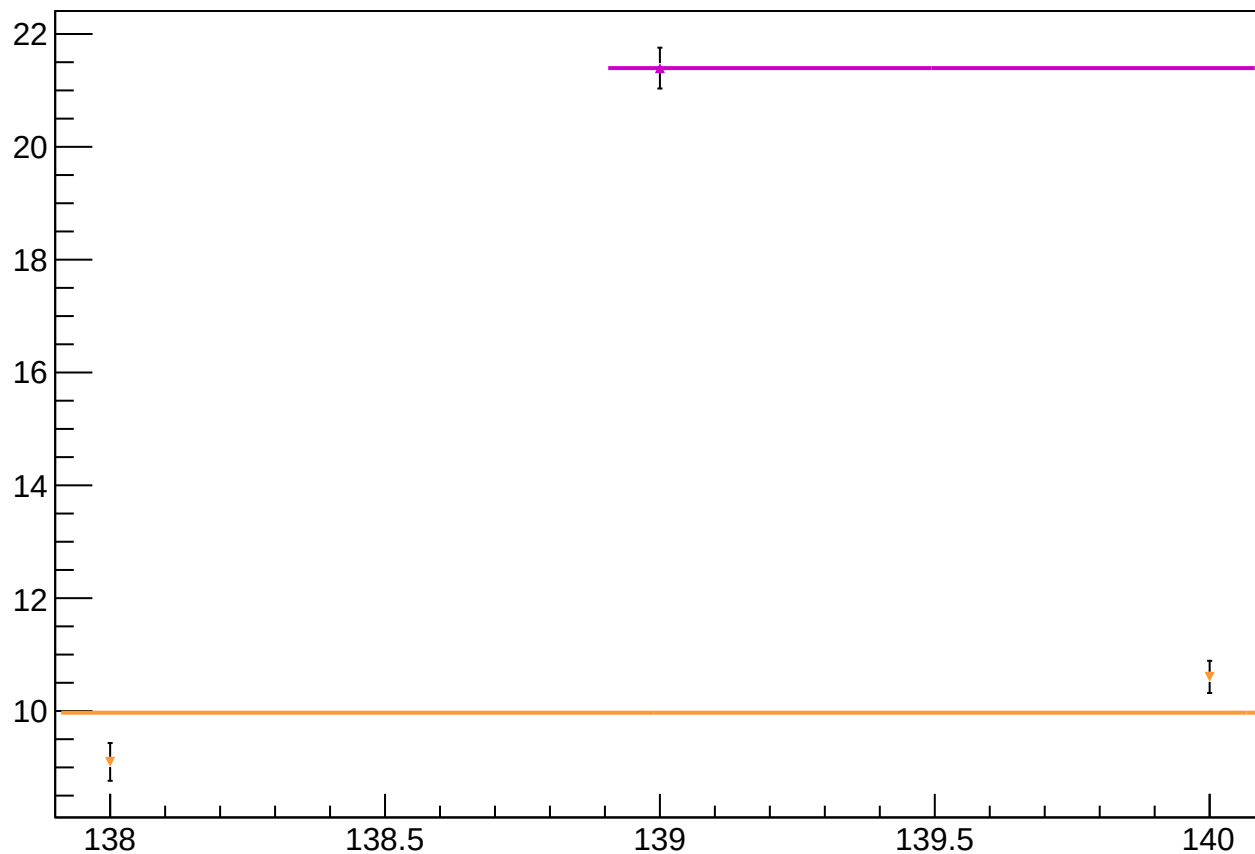
Right:  $0.096 \pm 0.008$   $\chi^2/\text{NDF}$ : 792.9/35

In:  $0.081 \pm 0.010$   $\chi^2/\text{NDF}$ : 447.9/17

Out:  $0.041 \pm 0.010$   $\chi^2/\text{NDF}$ : 511.1/20

All:  $0.060 \pm 0.007$   $\chi^2/\text{NDF}$ : 966.3/38

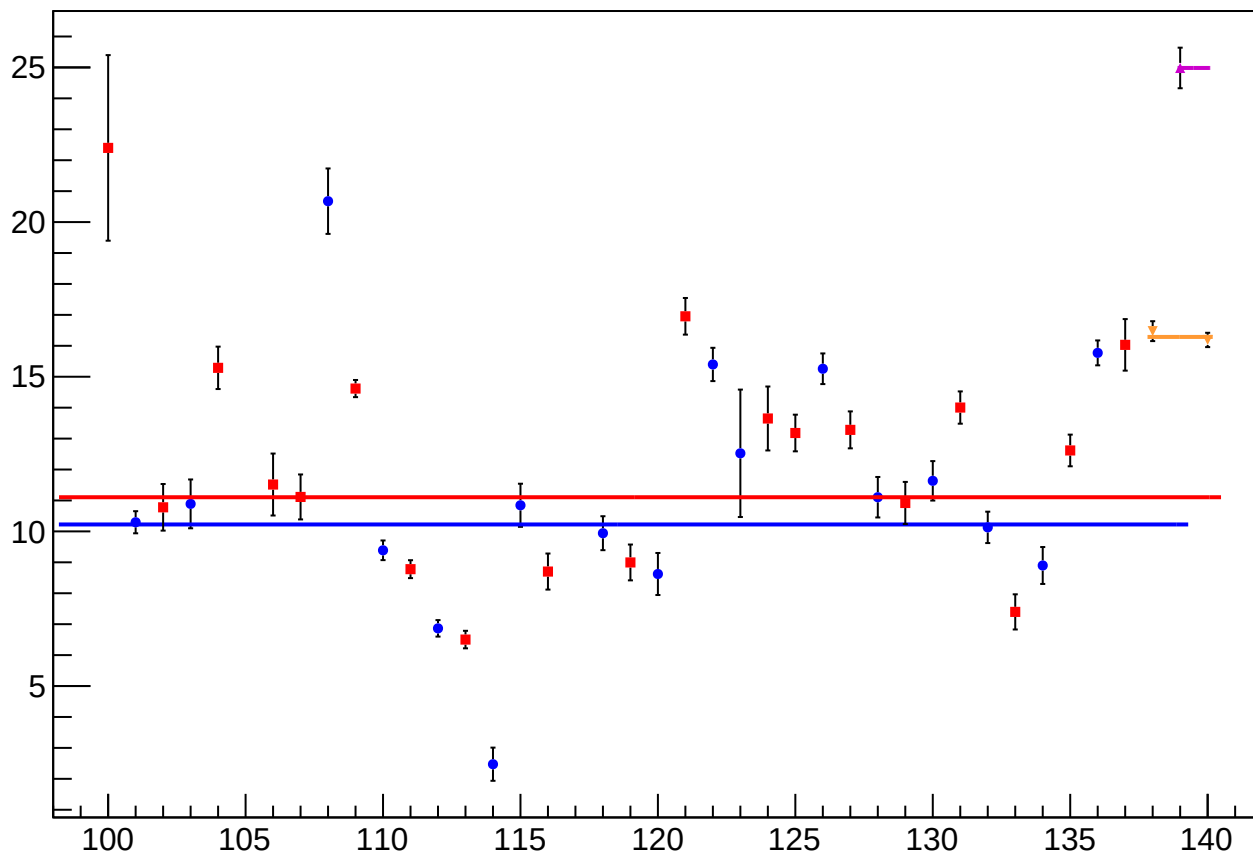
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 9.970+/-0.217  $\chi^2/\text{NDF}$ :11.7/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 21.396+/-0.362  $\chi^2/\text{NDF}$ :0.0/0

Left: 12.992+/-0.186  $\chi^2/\text{NDF}$ : 744.2/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 21.396+/-0.362  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 9.970+/-0.217  $\chi^2/\text{NDF}$ :11.7/1  
 All: 12.992+/-0.186  $\chi^2/\text{NDF}$ : 744.2/2

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 10.224 $\pm$ 0.119  $\chi^2/\text{NDF}$ : 877.6/16

Left Out: 16.287 $\pm$ 0.188  $\chi^2/\text{NDF}$ : 0.5/1

Right Out: 11.104 $\pm$ 0.116  $\chi^2/\text{NDF}$ : 817.2/18

Left In: 24.983 $\pm$ 0.656  $\chi^2/\text{NDF}$ : 0.0/0

Left: 16.946 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 163.0/2

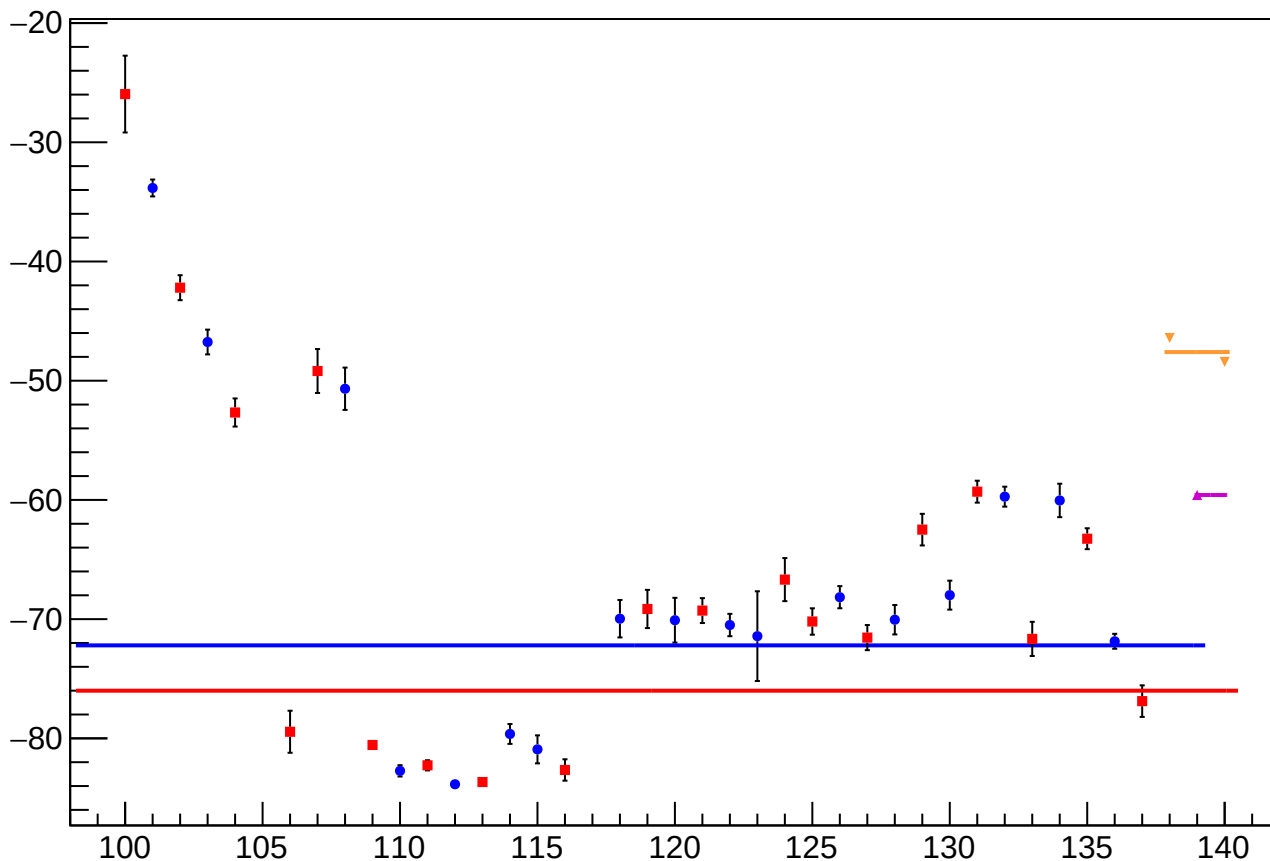
Right: 10.673 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 1722.7/35

In: 10.694 $\pm$ 0.117  $\chi^2/\text{NDF}$ : 1367.7/17

Out: 12.541 $\pm$ 0.099  $\chi^2/\text{NDF}$ : 1367.5/20

All: 11.771 $\pm$ 0.076  $\chi^2/\text{NDF}$ : 2880.7/38

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:  $-47.596 \pm 0.233$   $\chi^2/\text{NDF}: 17.9/1$

Right Out:  $-76.003 \pm 0.181$   $\chi^2/\text{NDF}: 3465.4/18$

Left In:  $-59.587 \pm 0.392$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-50.727 \pm 0.200$   $\chi^2/\text{NDF}: 710.1/2$

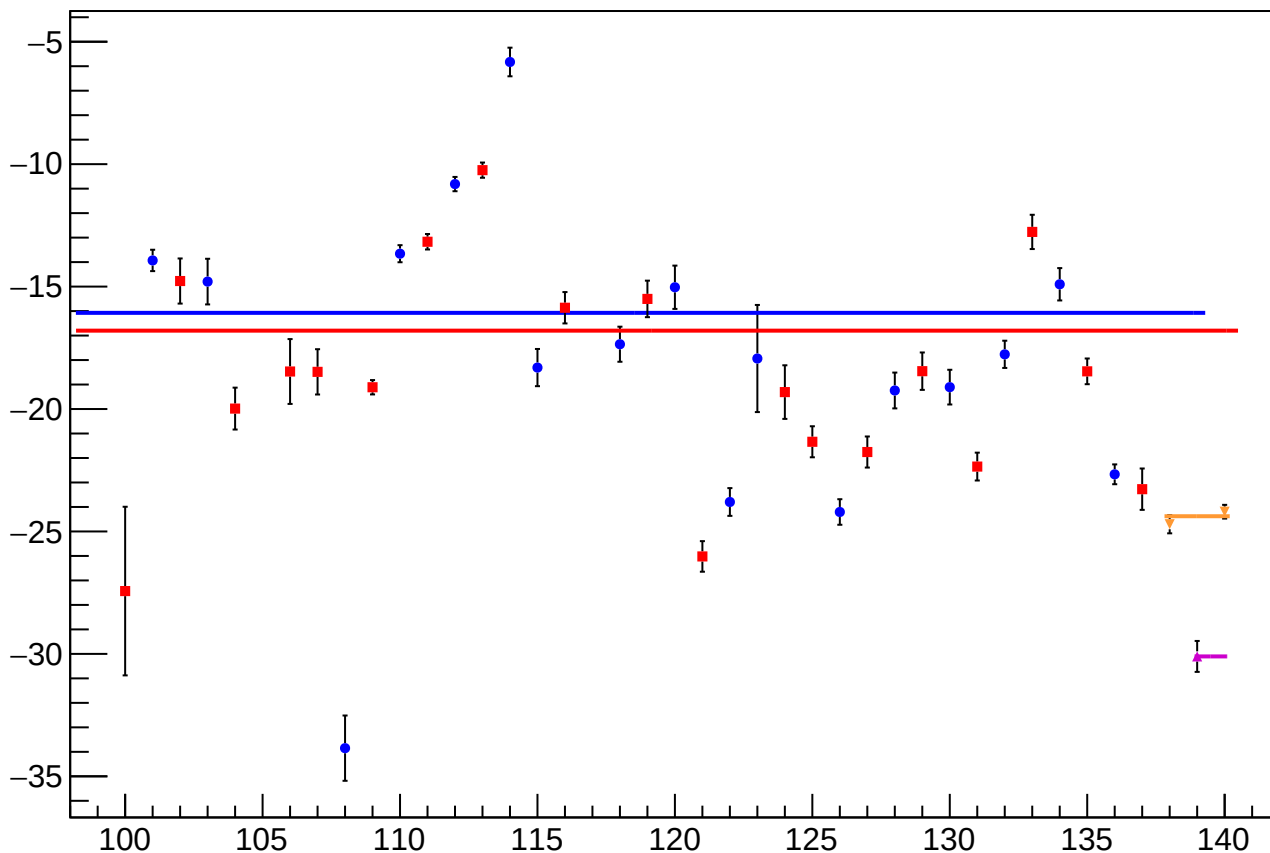
Right:  $-74.270 \pm 0.133$   $\chi^2/\text{NDF}: 9233.6/35$

In:  $-69.641 \pm 0.176$   $\chi^2/\text{NDF}: 6393.1/17$

Out:  $-65.309 \pm 0.143$   $\chi^2/\text{NDF}: 12762.2/20$

All:  $-67.024 \pm 0.111$   $\chi^2/\text{NDF}: 19519.2/38$

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -16.072 $\pm$ 0.132  $\chi^2$ /NDF: 1640.9/16

Left Out: -24.378 $\pm$ 0.224  $\chi^2$ /NDF: 1.2/1

Right Out: -16.799 $\pm$ 0.128  $\chi^2$ /NDF: 1215.8/18

Left In: -30.103 $\pm$ 0.632  $\chi^2$ /NDF: 0.0/0

Left: -25.016 $\pm$ 0.211  $\chi^2$ /NDF: 74.2/2

Right: -16.447 $\pm$ 0.092  $\chi^2$ /NDF: 2872.2/35

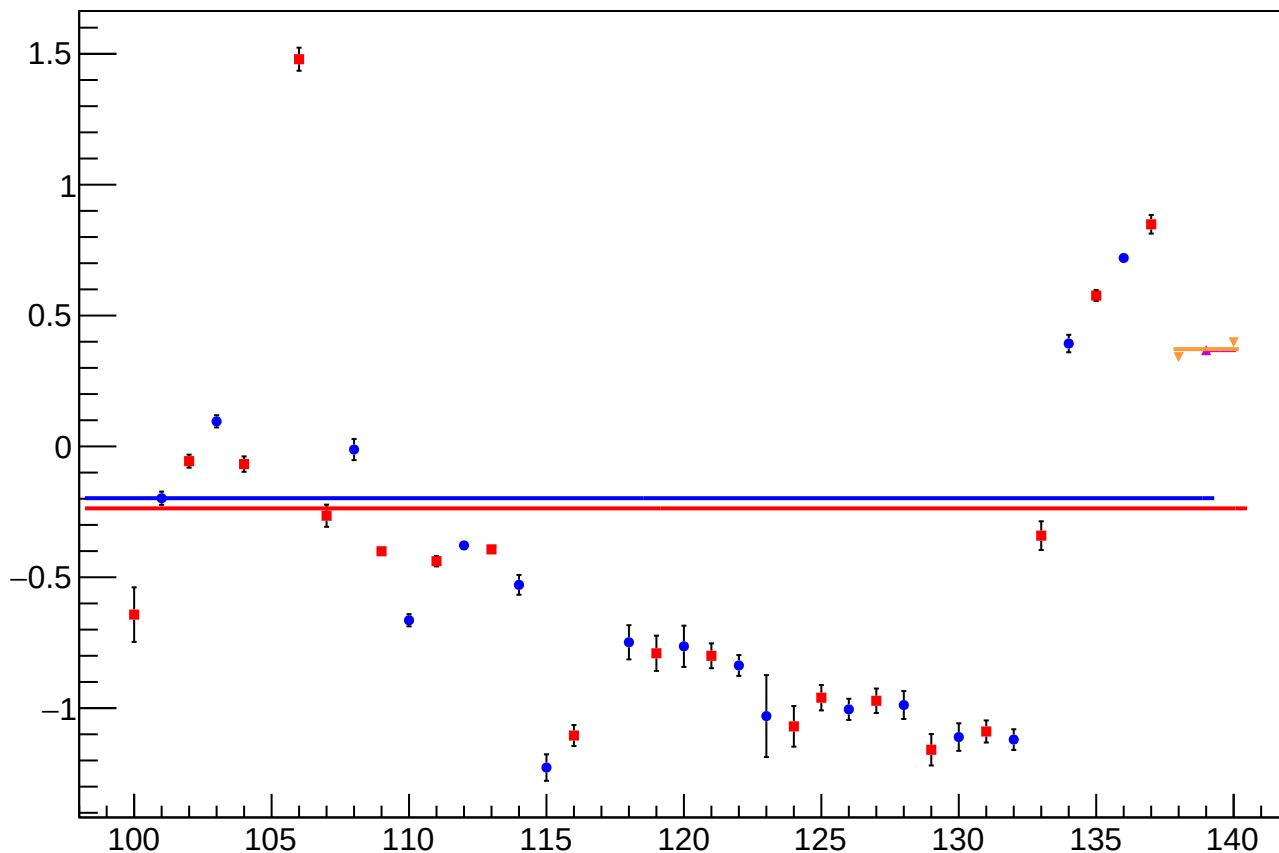
In: -16.660 $\pm$ 0.129  $\chi^2$ /NDF: 2113.5/17

Out: -18.671 $\pm$ 0.111  $\chi^2$ /NDF: 2080.7/20

All: -17.816 $\pm$ 0.084  $\chi^2$ /NDF: 4333.1/38



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:  $0.372 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.3/1

Right Out:  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 6221.9/18

Left In:  $0.368 \pm 0.014$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.371 \pm 0.008$   $\chi^2/\text{NDF}$ : 8.4/2

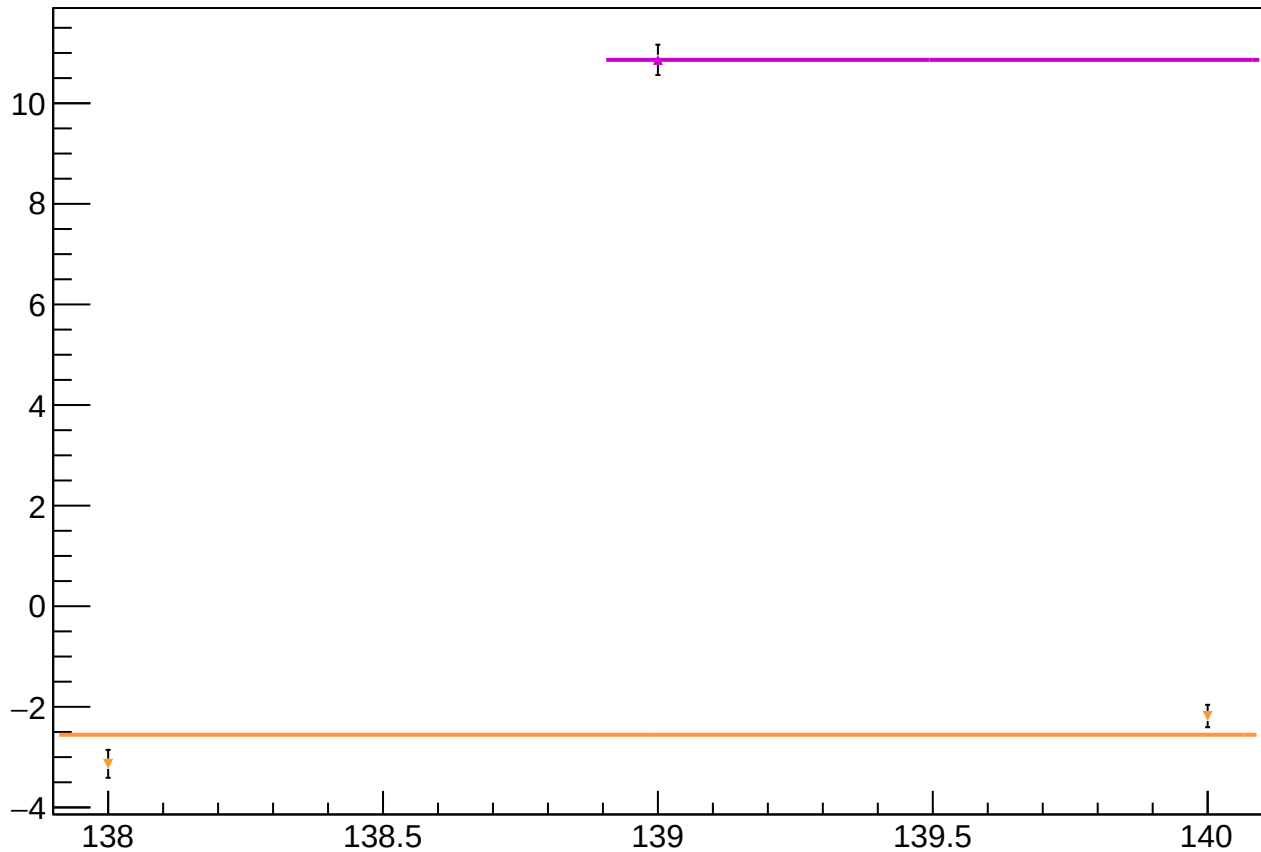
Right:  $-0.218 \pm 0.005$   $\chi^2/\text{NDF}$ : 12574.6/35

In:  $-0.068 \pm 0.007$   $\chi^2/\text{NDF}$ : 7628.8/17

Out:  $-0.023 \pm 0.006$   $\chi^2/\text{NDF}$ : 8755.1/20

All:  $-0.043 \pm 0.004$   $\chi^2/\text{NDF}$ : 16410.1/38

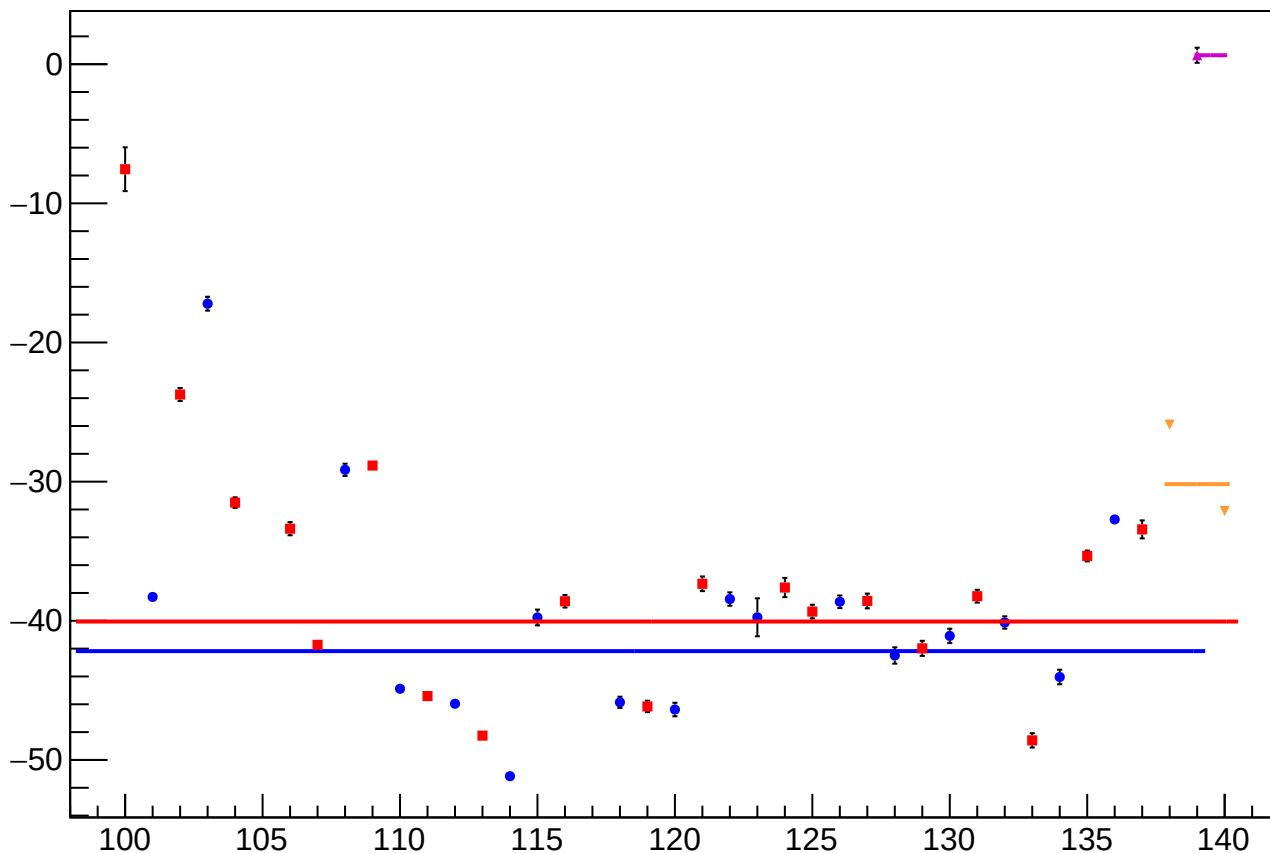
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.555 $\pm$ 0.174  $\chi^2$ /NDF:7.1/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 10.863 $\pm$ 0.302  $\chi^2$ /NDF:0.0/0

Left: 0.783 $\pm$ 0.151  $\chi^2$ /NDF: 1491.7/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 10.863 $\pm$ 0.302  $\chi^2$ /NDF:0.0/0  
 Out: -2.555 $\pm$ 0.174  $\chi^2$ /NDF:7.1/1  
 All: 0.783 $\pm$ 0.151  $\chi^2$ /NDF: 1491.7/2

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:  $-30.178 \pm 0.150$   $\chi^2/\text{NDF}: 365.5/1$

Right Out:  $-40.052 \pm 0.073$   $\chi^2/\text{NDF}: 11313.5/18$

Left In:  $0.642 \pm 0.545$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-27.999 \pm 0.145$   $\chi^2/\text{NDF}: 3341.7/2$

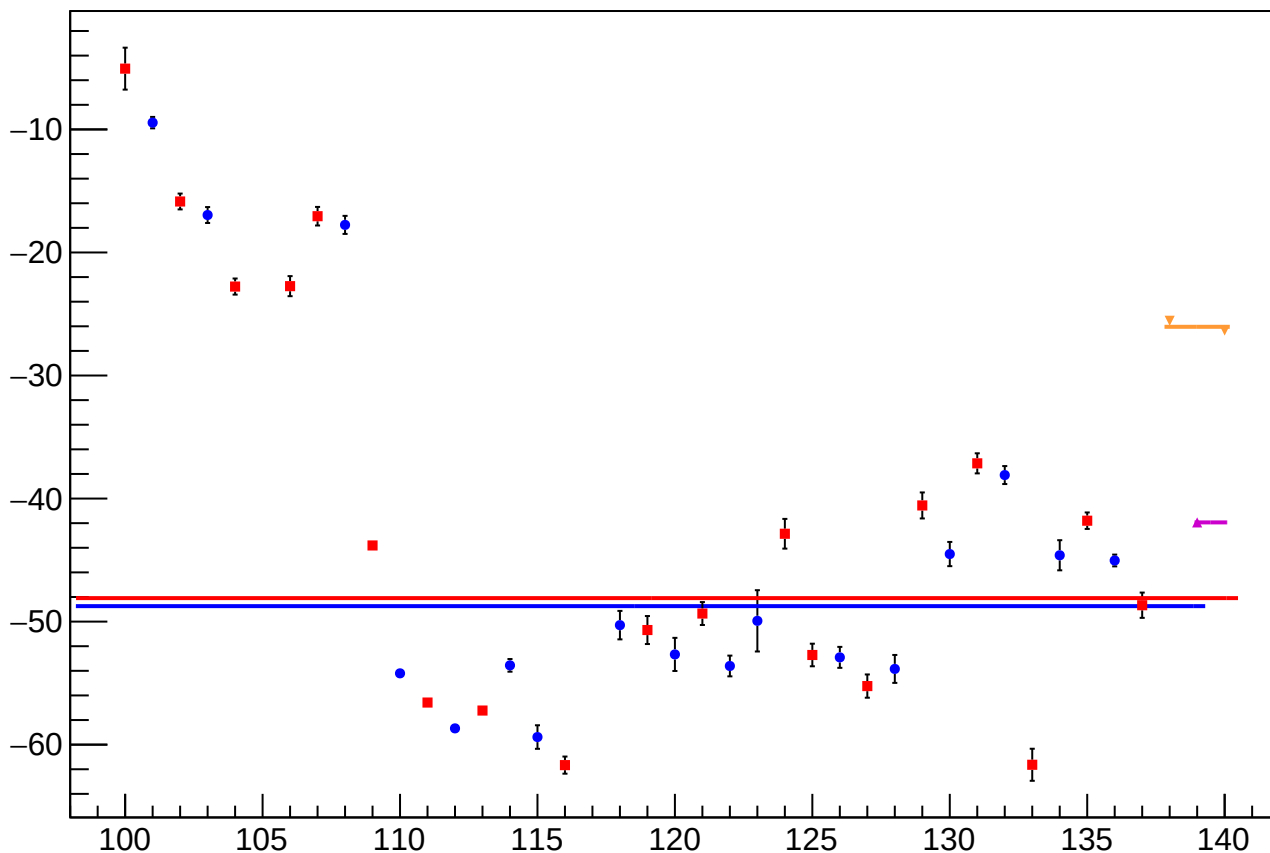
Right:  $-41.045 \pm 0.053$   $\chi^2/\text{NDF}: 18285.9/35$

In:  $-41.323 \pm 0.077$   $\chi^2/\text{NDF}: 12632.6/17$

Out:  $-38.175 \pm 0.066$   $\chi^2/\text{NDF}: 15178.3/20$

All:  $-39.497 \pm 0.050$   $\chi^2/\text{NDF}: 28781.1/38$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-48.743 \pm 0.124$   $\chi^2/\text{NDF}$ : 14658.5/16

Left Out:  $-26.041 \pm 0.186$   $\chi^2/\text{NDF}$ : 4.3/1

Right Out:  $-48.091 \pm 0.107$   $\chi^2/\text{NDF}$ : 11731.5/18

Left In:  $-41.937 \pm 0.327$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-29.937 \pm 0.162$   $\chi^2/\text{NDF}$ : 1790.1/2

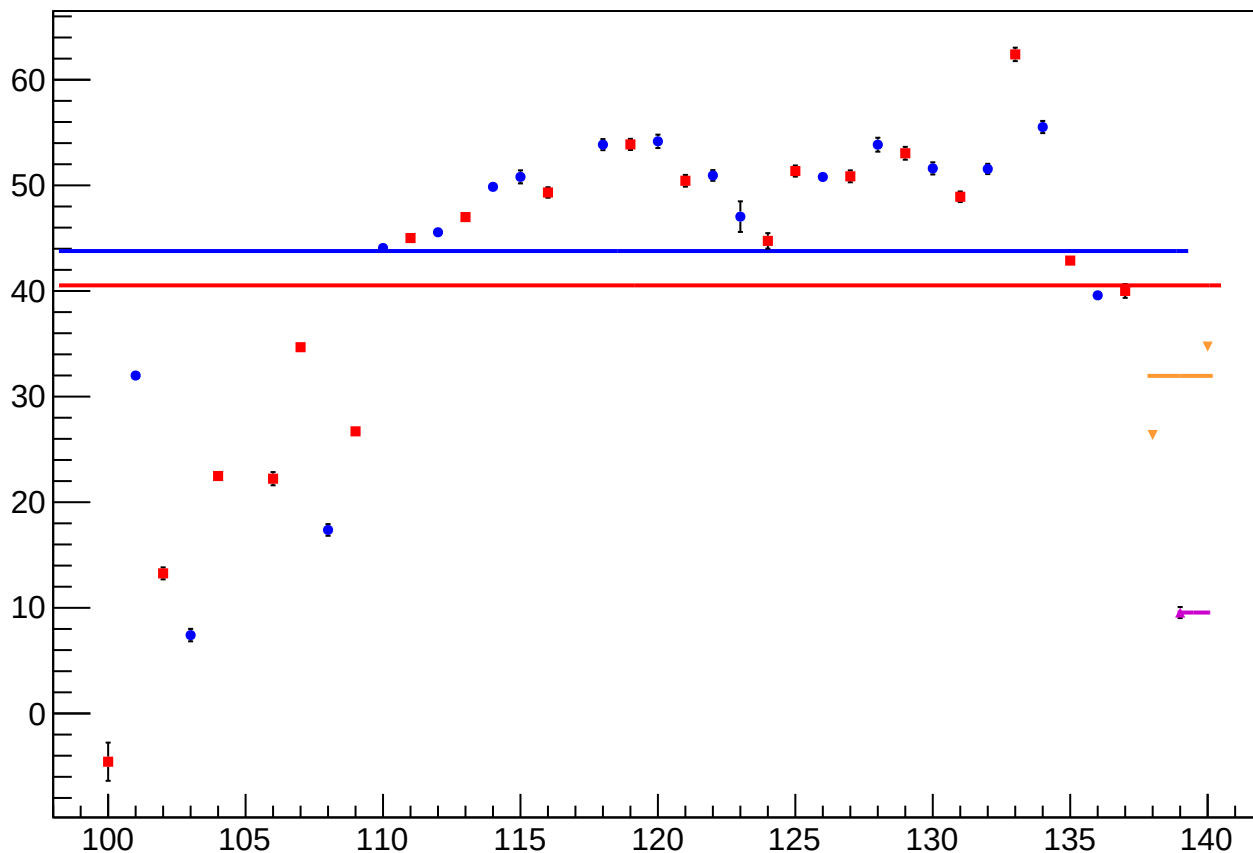
Right:  $-48.369 \pm 0.081$   $\chi^2/\text{NDF}$ : 26405.8/35

In:  $-47.882 \pm 0.116$   $\chi^2/\text{NDF}$ : 15037.2/17

Out:  $-42.602 \pm 0.093$   $\chi^2/\text{NDF}$ : 22264.5/20

All:  $-44.659 \pm 0.073$   $\chi^2/\text{NDF}$ : 38559.8/38

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 43.782 $\pm$ 0.087  $\chi^2$ /NDF: 10638.7/16

Left Out: 31.962 $\pm$ 0.179  $\chi^2$ /NDF:484.9/1

Right Out: 40.530 $\pm$ 0.080  $\chi^2$ /NDF: 17580.7/18

Left In: 9.554 $\pm$ 0.524  $\chi^2$ /NDF:0.0/0

Left: 29.627 $\pm$ 0.169  $\chi^2$ /NDF: 2121.2/2

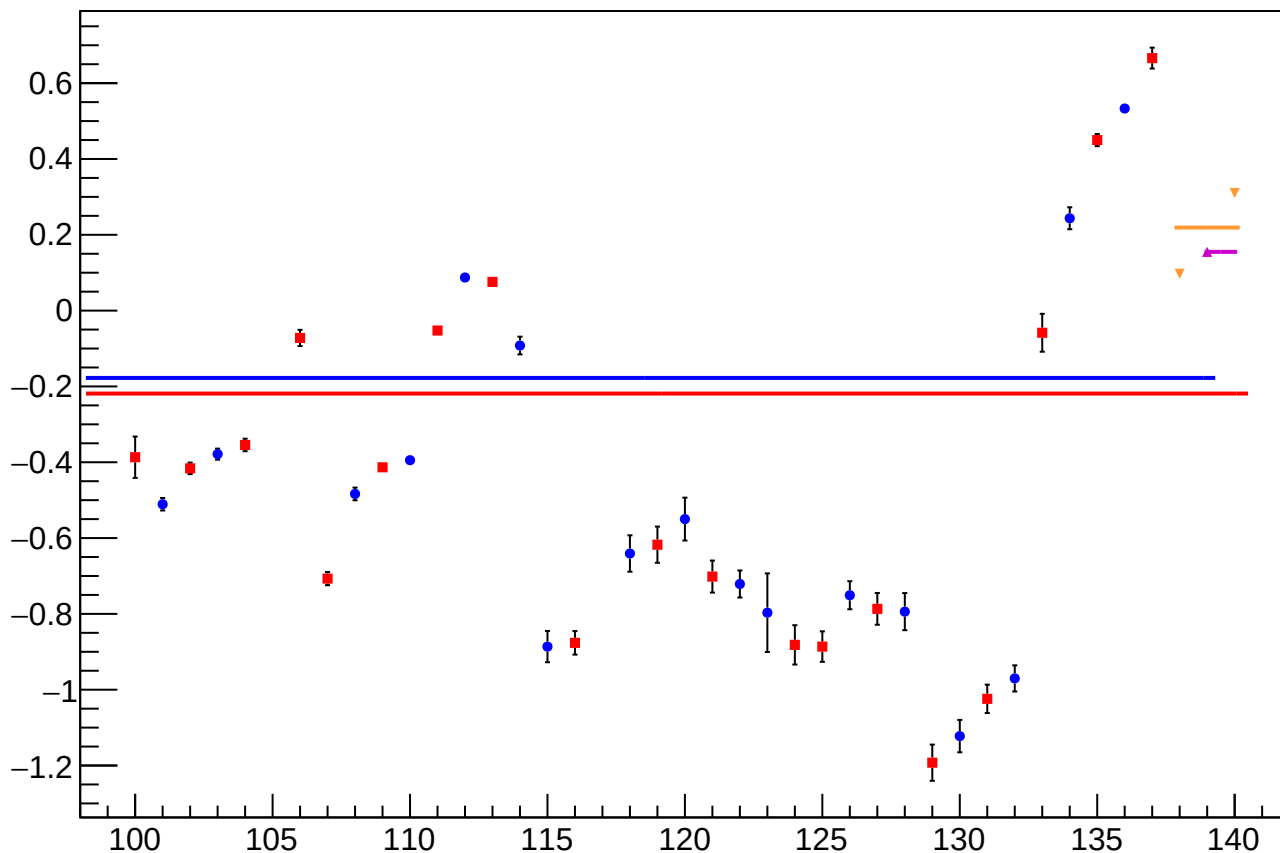
Right: 42.031 $\pm$ 0.059  $\chi^2$ /NDF: 28978.3/35

In: 42.873 $\pm$ 0.085  $\chi^2$ /NDF:14787.5/17

Out: 39.096 $\pm$ 0.073  $\chi^2$ /NDF:19977.2/20

All: 40.693 $\pm$ 0.056  $\chi^2$ /NDF: 35891.4/38

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7375.8/16

Left Out:  $0.219 \pm 0.008$   $\chi^2/\text{NDF}$ : 181.9/1

Right Out:  $-0.219 \pm 0.004$   $\chi^2/\text{NDF}$ : 7470.0/18

Left In:  $0.155 \pm 0.011$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.199 \pm 0.006$   $\chi^2/\text{NDF}$ : 203.3/2

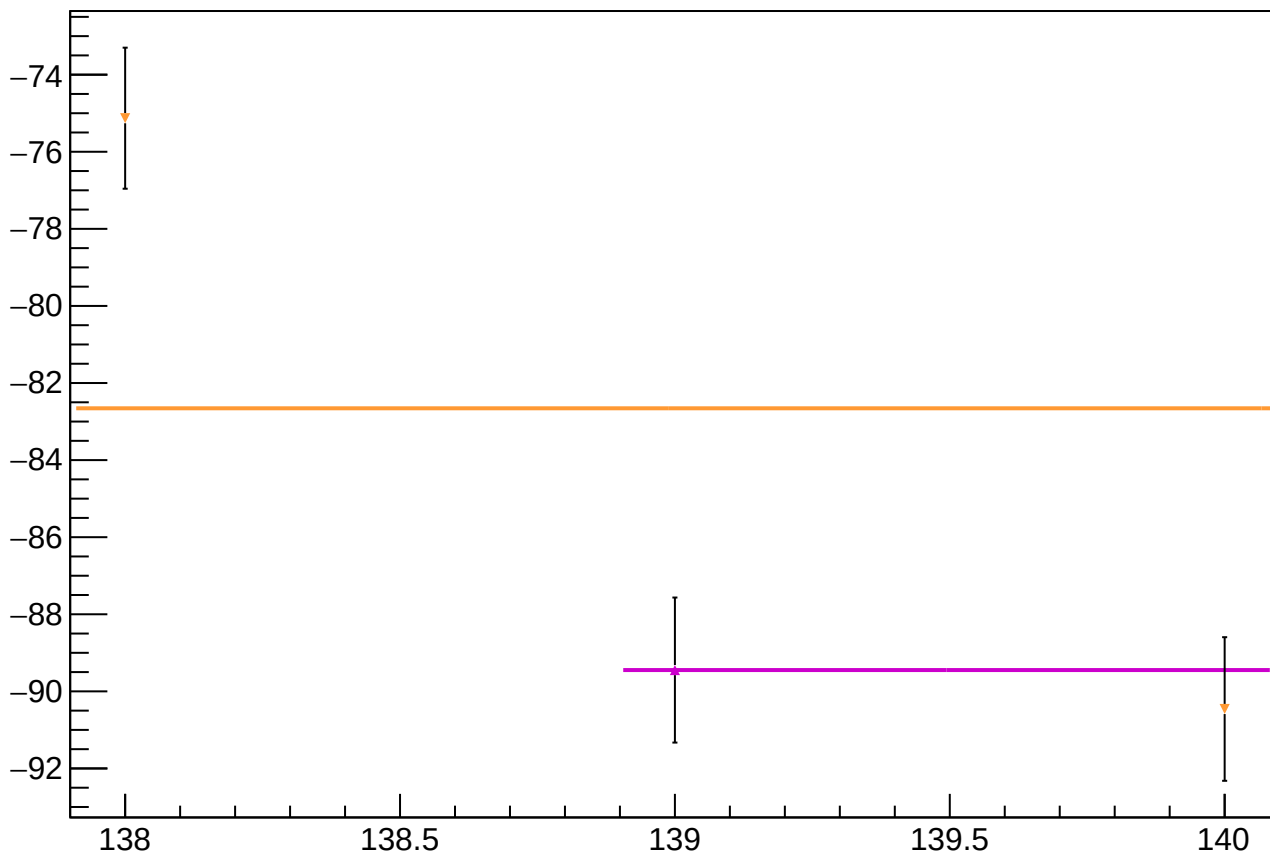
Right:  $-0.201 \pm 0.003$   $\chi^2/\text{NDF}$ : 14886.5/35

In:  $-0.127 \pm 0.004$   $\chi^2/\text{NDF}$ : 8087.9/17

Out:  $-0.117 \pm 0.004$   $\chi^2/\text{NDF}$ : 10062.9/20

All:  $-0.121 \pm 0.003$   $\chi^2/\text{NDF}$ : 18154.1/38

reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -82.656+/-1.305  $\chi^2/\text{NDF}$ :34.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -89.447+/-1.881  $\chi^2/\text{NDF}$ :0.0/0

Left: -84.863+/-1.073  $\chi^2/\text{NDF}$ : 43.3/2

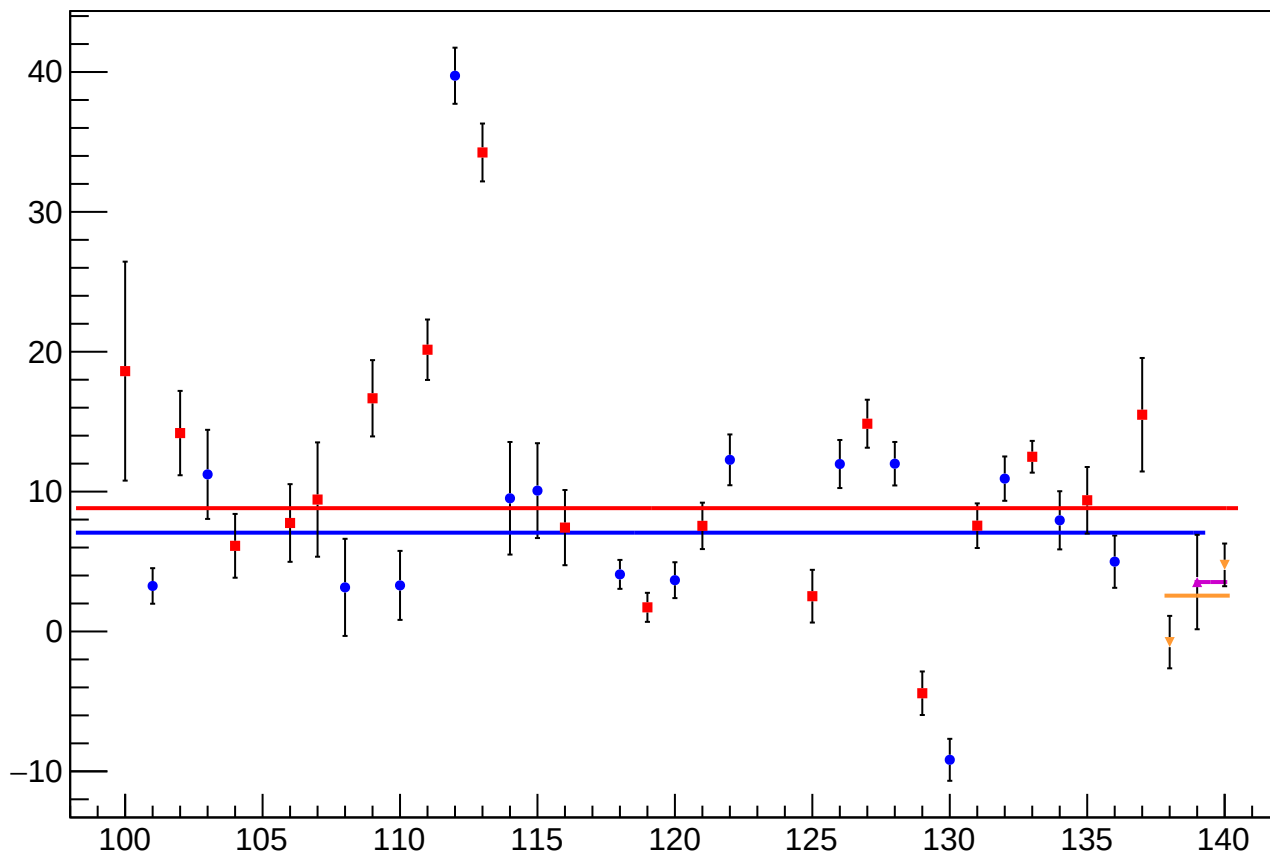
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -89.447+/-1.881  $\chi^2/\text{NDF}$ :0.0/0

Out: -82.656+/-1.305  $\chi^2/\text{NDF}$ :34.5/1

All: -84.863+/-1.073  $\chi^2/\text{NDF}$ : 43.3/2

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.063 $\pm$ 0.434  $\chi^2$ /NDF: 446.9/15

Left Out: 2.561 $\pm$ 1.183  $\chi^2$ /NDF:5.2/1

Right Out: 8.816 $\pm$ 0.449  $\chi^2$ /NDF: 350.4/17

Left In: 3.534 $\pm$ 3.376  $\chi^2$ /NDF:0.0/0

Left: 2.668 $\pm$ 1.117  $\chi^2$ /NDF: 5.3/2

Right: 7.909 $\pm$ 0.312  $\chi^2$ /NDF: 805.1/33

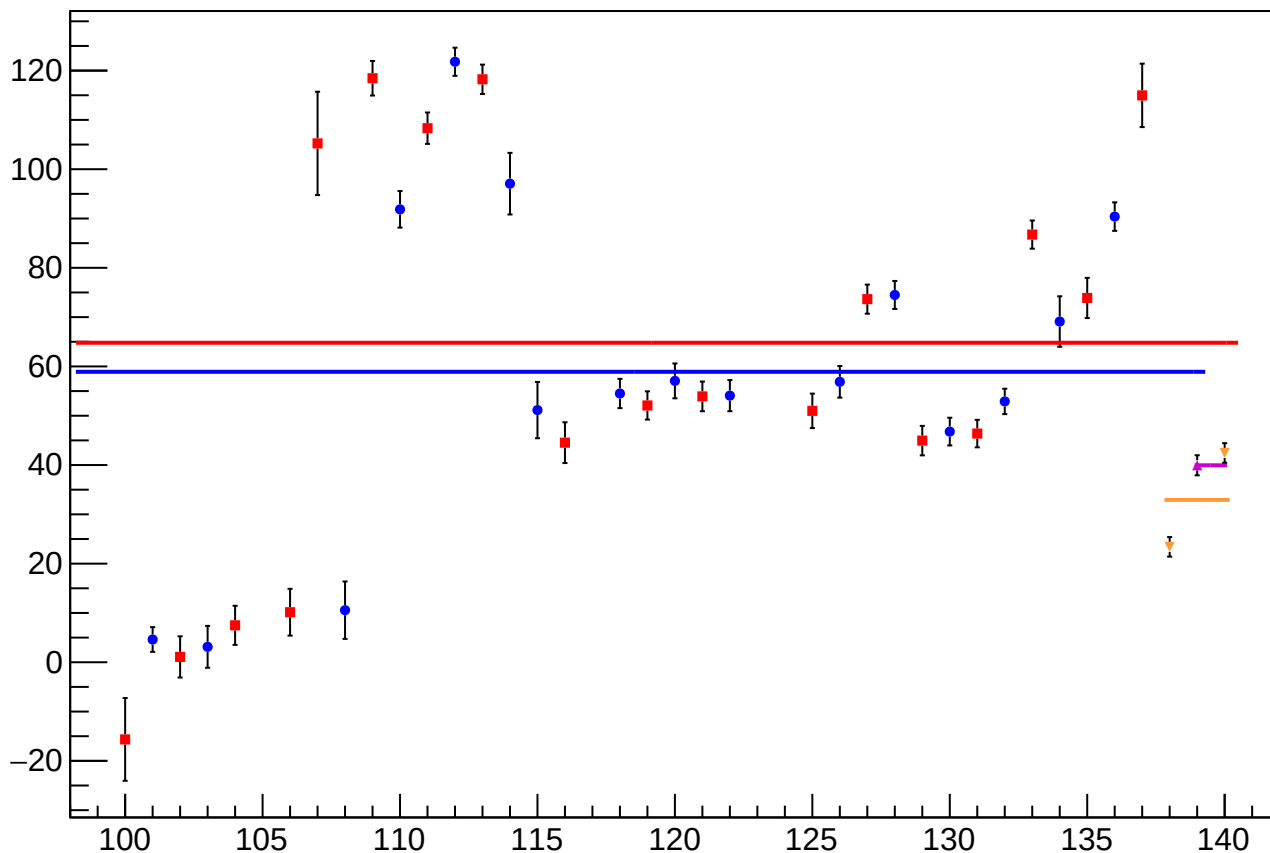
In: 7.006 $\pm$ 0.430  $\chi^2$ /NDF:447.9/16

Out: 8.029 $\pm$ 0.420  $\chi^2$ /NDF:380.0/19

All: 7.530 $\pm$ 0.300  $\chi^2$ /NDF: 830.8/36



# 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: 32.930 $\pm$ 1.403  $\chi^2$ /NDF:46.1/1

Right Out: 64.803 $\pm$ 0.840  $\chi^2$ /NDF: 1718.2/17

Left In: 39.949 $\pm$ 2.039  $\chi^2$ /NDF:0.0/0

Left: 35.185 $\pm$ 1.156  $\chi^2$ /NDF: 54.1/2

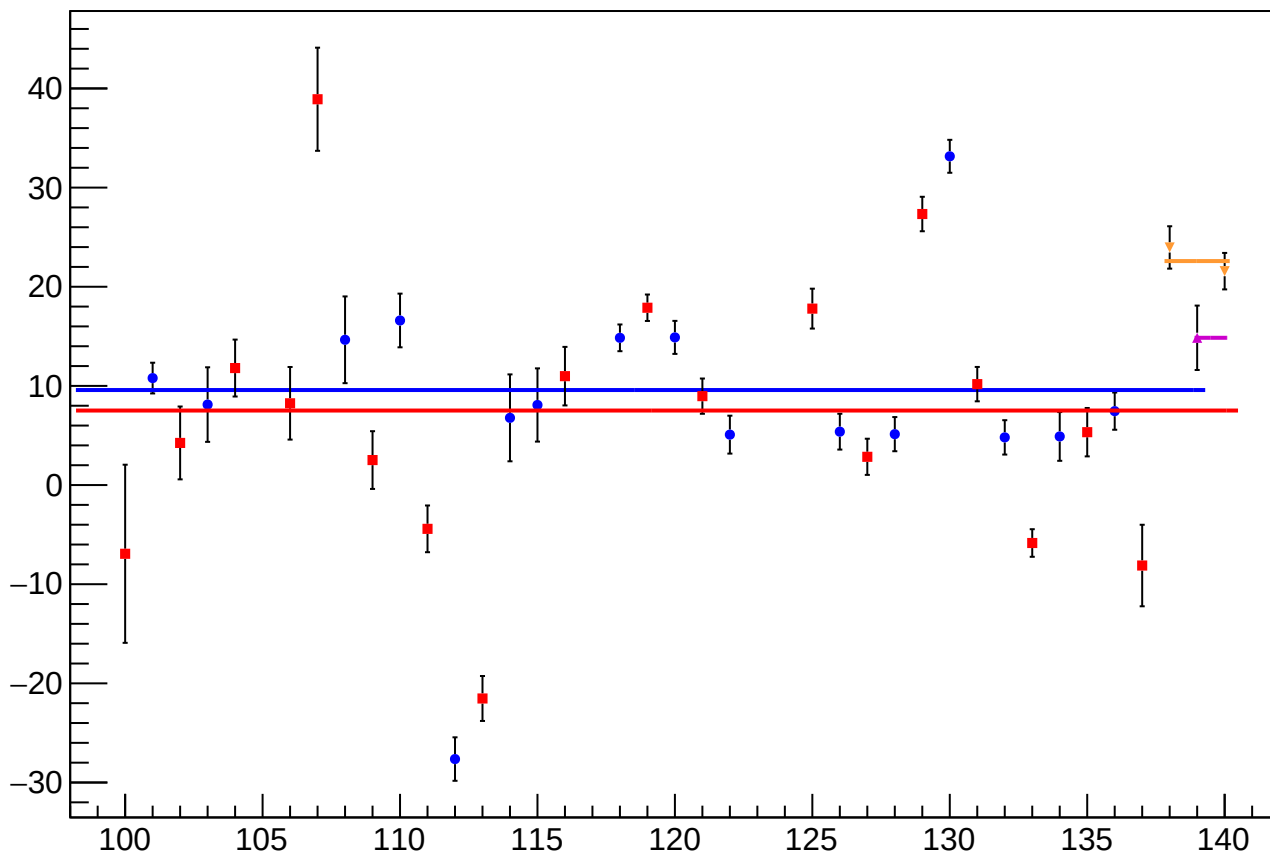
Right: 61.827 $\pm$ 0.591  $\chi^2$ /NDF: 3239.7/33

In: 56.209 $\pm$ 0.770  $\chi^2$ /NDF:1570.9/16

Out: 56.387 $\pm$ 0.721  $\chi^2$ /NDF:2144.2/19

All: 56.304 $\pm$ 0.526  $\chi^2$ /NDF: 3715.1/36

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:  $22.590 \pm 1.394$   $\chi^2/\text{NDF}: 0.7/1$

Right Out:  $7.516 \pm 0.516$   $\chi^2/\text{NDF}: 569.8/17$

Left In:  $14.852 \pm 3.248$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $21.386 \pm 1.281$   $\chi^2/\text{NDF}: 5.5/2$

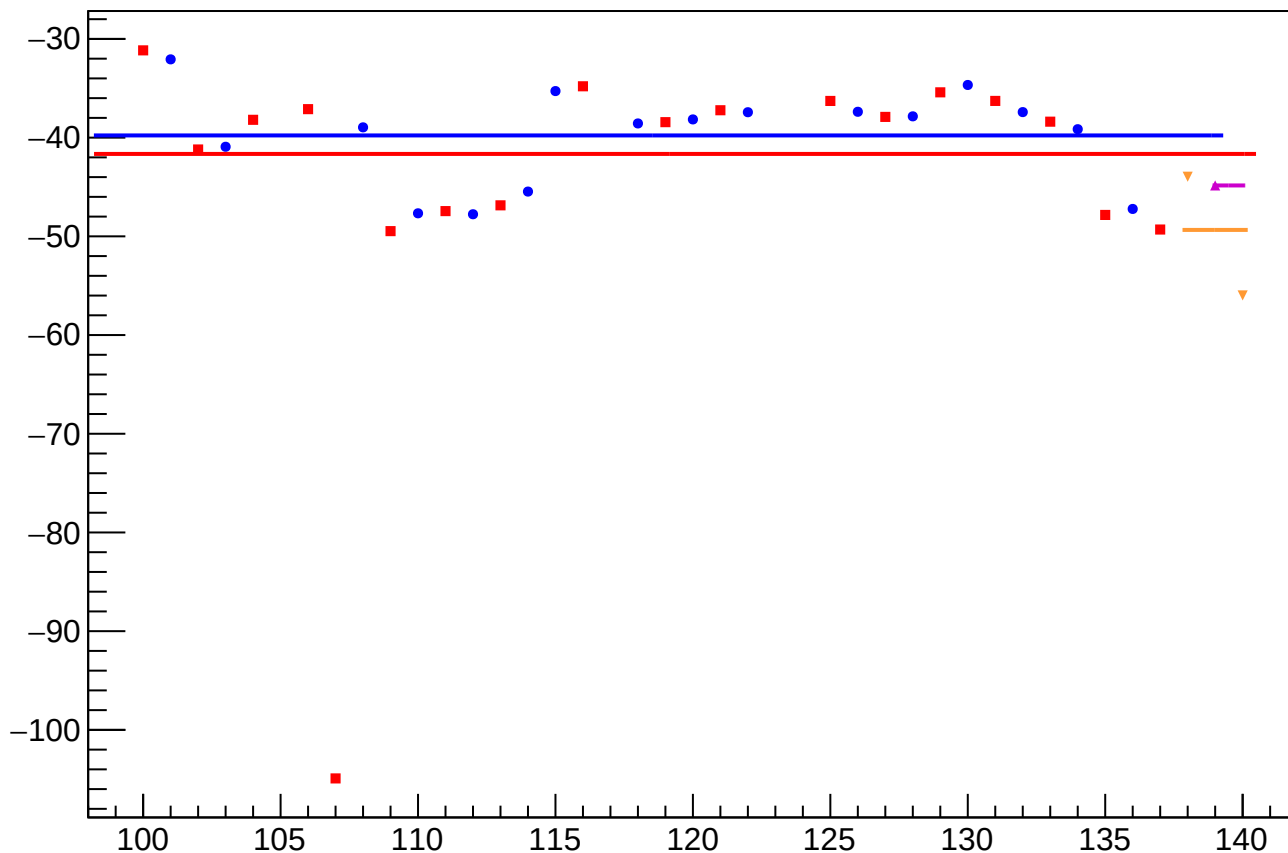
Right:  $8.579 \pm 0.359$   $\chi^2/\text{NDF}: 1132.5/33$

In:  $9.705 \pm 0.495$   $\chi^2/\text{NDF}: 557.0/16$

Out:  $9.330 \pm 0.484$   $\chi^2/\text{NDF}: 673.4/19$

All:  $9.513 \pm 0.346$   $\chi^2/\text{NDF}: 1230.6/36$

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -39.777 $\pm$ 0.031  $\chi^2$ /NDF: 26158.0/15

Left Out: -49.350 $\pm$ 0.058  $\chi^2$ /NDF:10634.7/1

Right Out: -41.651 $\pm$ 0.031  $\chi^2$ /NDF: 94457.5/17

Left In: -44.844 $\pm$ 0.071  $\chi^2$ /NDF:0.0/0

Left: -47.560 $\pm$ 0.045  $\chi^2$ /NDF: 13032.7/2

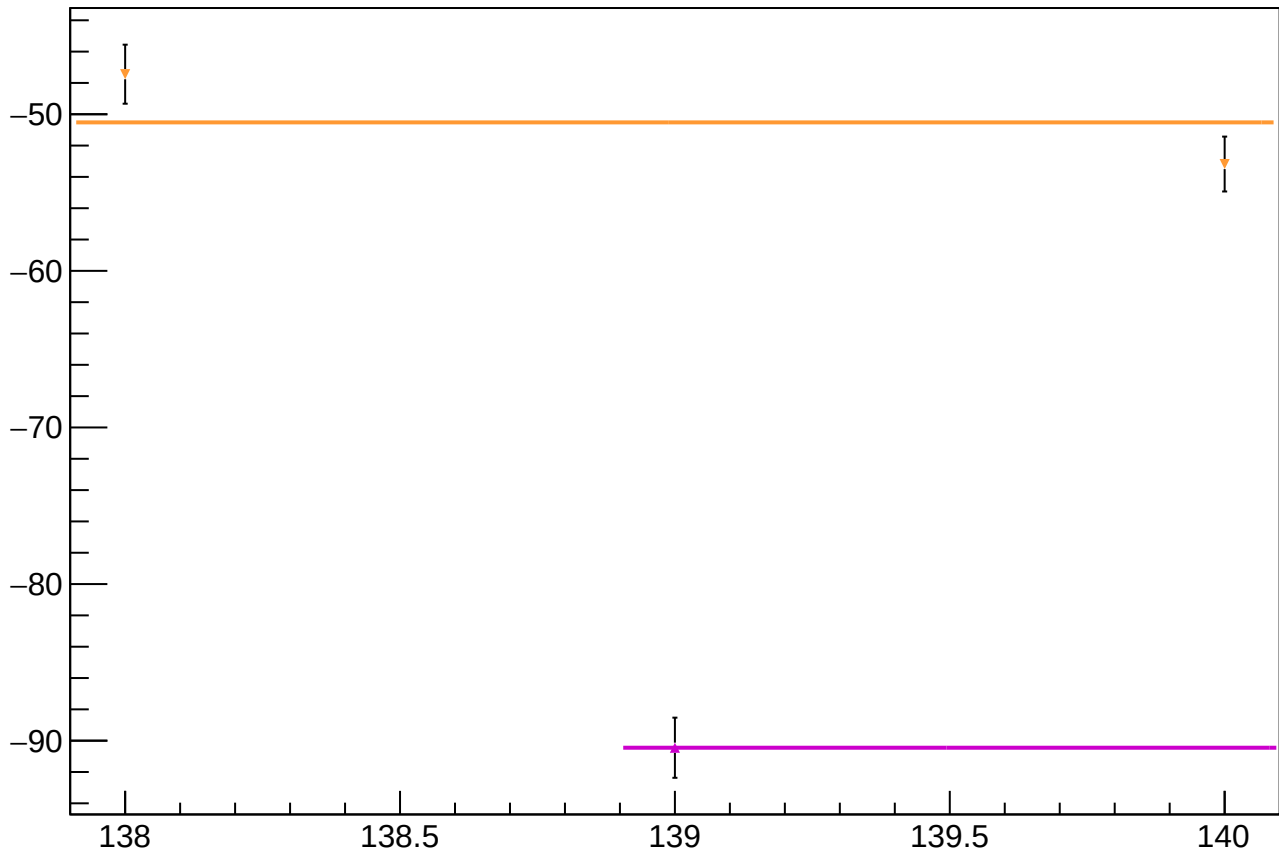
Right: -40.710 $\pm$ 0.022  $\chi^2$ /NDF: 122427.7/33

In: -40.583 $\pm$ 0.028  $\chi^2$ /NDF:30390.4/16

Out: -43.378 $\pm$ 0.027  $\chi^2$ /NDF:118763.5/19

All: -42.032 $\pm$ 0.020  $\chi^2$ /NDF: 154143.4/36

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: -50.520+/-1.283  $\chi^2/\text{NDF}$ : 5.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -90.450+/-1.920  $\chi^2/\text{NDF}$ : 0.0/0

Left: -62.848+/-1.067  $\chi^2/\text{NDF}$ : 303.9/2

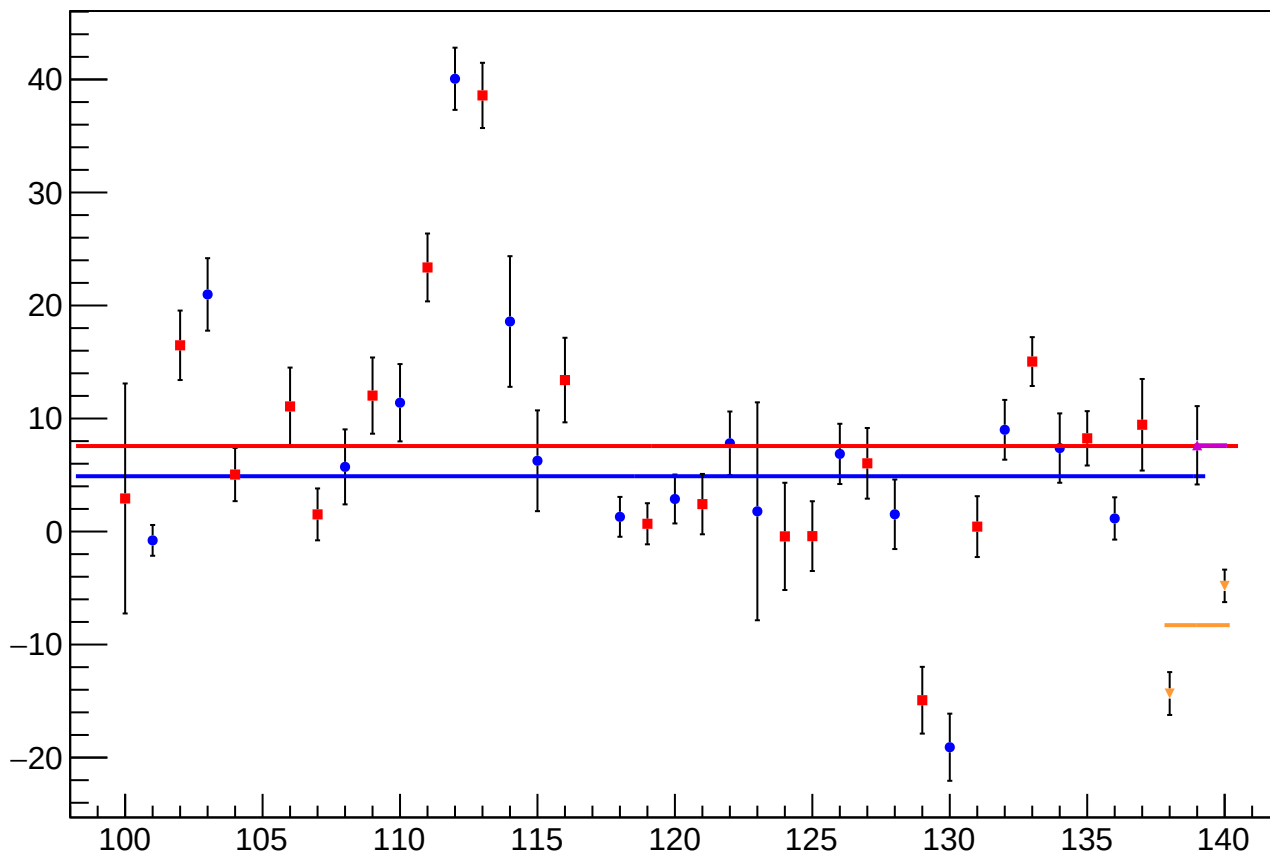
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -90.450+/-1.920  $\chi^2/\text{NDF}$ : 0.0/0

Out: -50.520+/-1.283  $\chi^2/\text{NDF}$ : 5.0/1

All: -62.848+/-1.067  $\chi^2/\text{NDF}$ : 303.9/2

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:  $-8.284 \pm 1.145$   $\chi^2/\text{NDF}$ : 16.0/1

Right Out:  $7.565 \pm 0.652$   $\chi^2/\text{NDF}$ : 270.2/18

Left In:  $7.631 \pm 3.466$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-6.717 \pm 1.088$   $\chi^2/\text{NDF}$ : 35.0/2

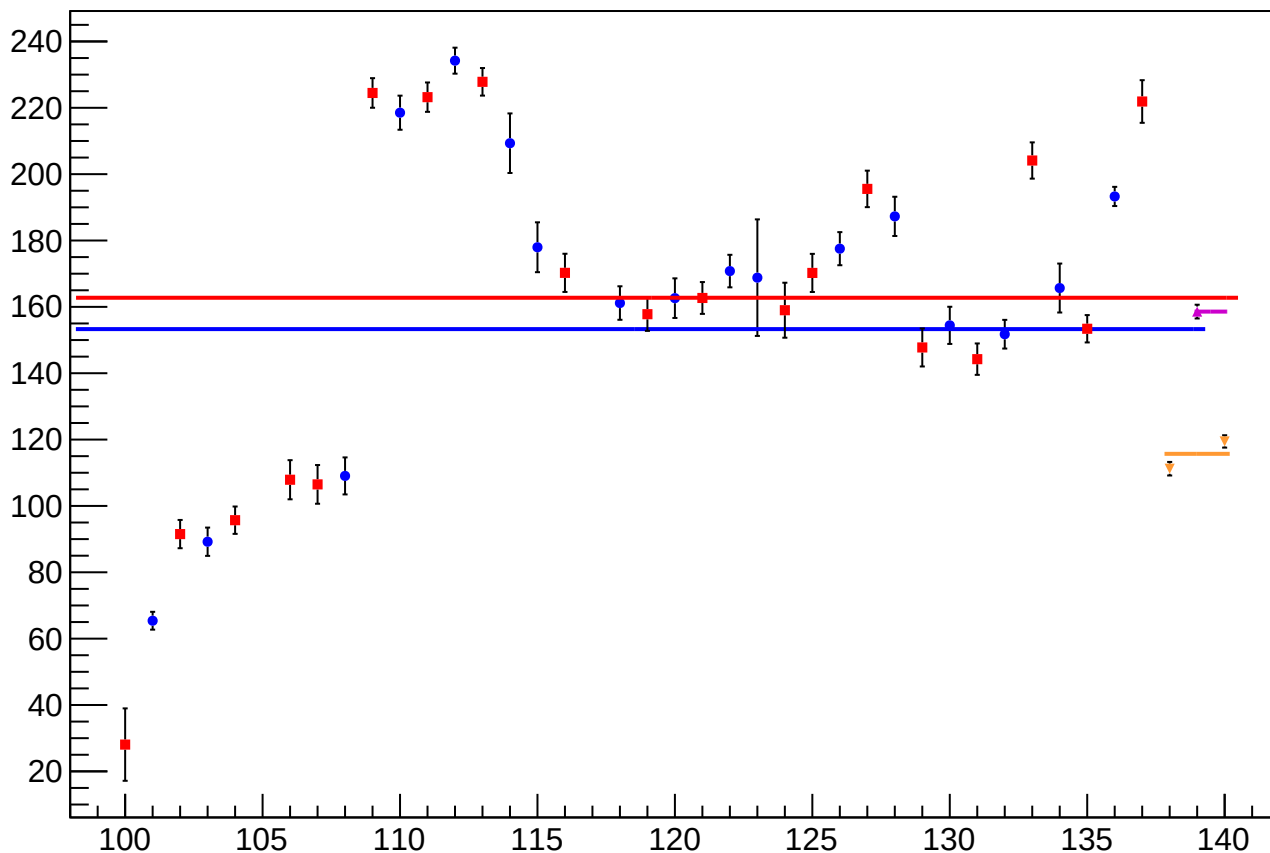
Right:  $6.165 \pm 0.450$   $\chi^2/\text{NDF}$ : 574.4/35

In:  $4.979 \pm 0.611$   $\chi^2/\text{NDF}$ : 296.0/17

Out:  $3.690 \pm 0.566$   $\chi^2/\text{NDF}$ : 430.9/20

All:  $4.285 \pm 0.415$   $\chi^2/\text{NDF}$ : 729.2/38

reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 153.298+/-1.145  $\chi^2/\text{NDF}$ : 2266.8/16

Left Out: 115.701+/-1.378  $\chi^2/\text{NDF}$ : 8.8/1

Right Out: 162.747+/-1.177  $\chi^2/\text{NDF}$ : 1708.7/18

Left In: 158.572+/-2.078  $\chi^2/\text{NDF}$ : 0.0/0

Left: 128.789+/-1.148  $\chi^2/\text{NDF}$ : 304.4/2

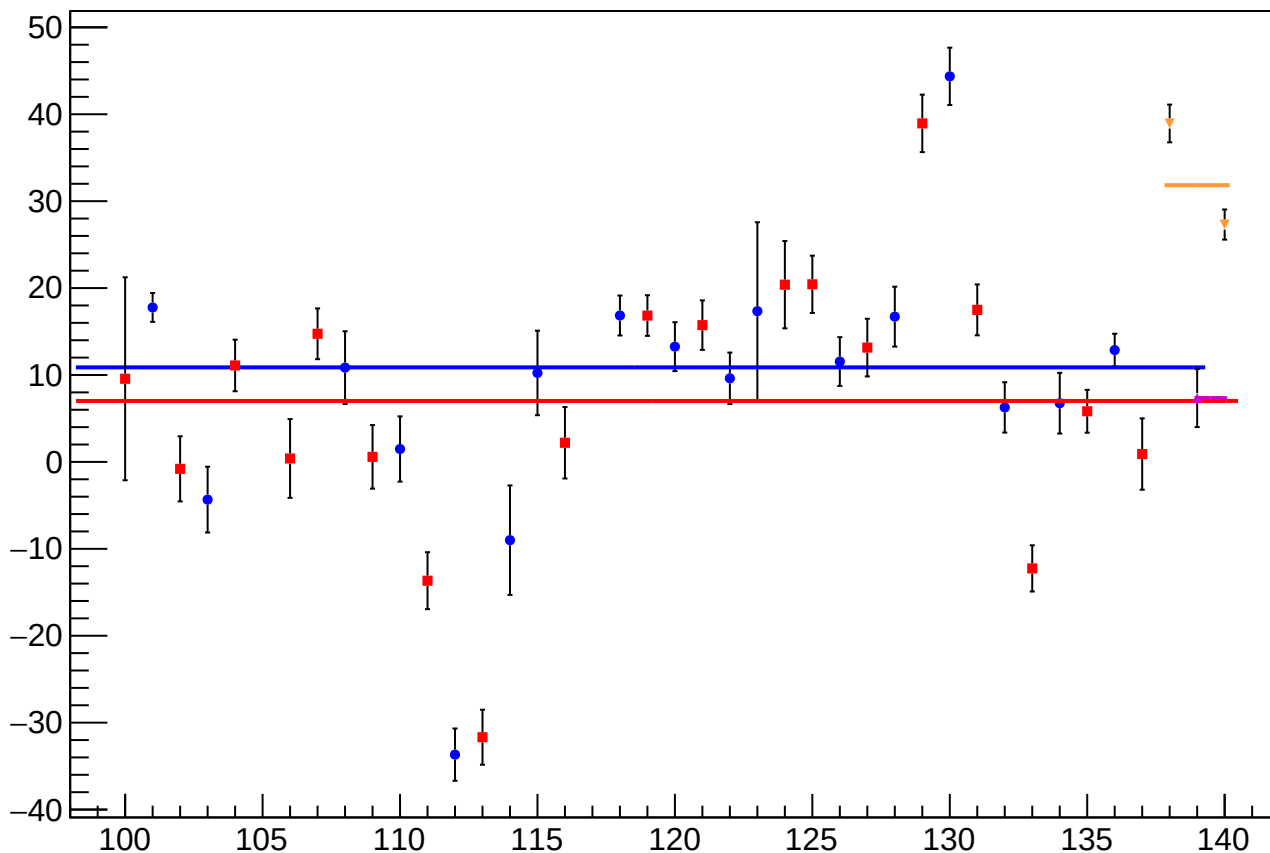
Right: 157.893+/-0.820  $\chi^2/\text{NDF}$ : 4008.6/35

In: 154.525+/-1.003  $\chi^2/\text{NDF}$ : 2271.7/17

Out: 142.907+/-0.895  $\chi^2/\text{NDF}$ : 2391.7/20

All: 148.057+/-0.668  $\chi^2/\text{NDF}$ : 4738.2/38

reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.878 $\pm$ 0.713  $\chi^2$ /NDF: 388.1/16

Left Out: 31.838 $\pm$ 1.355  $\chi^2$ /NDF:17.5/1

Right Out: 7.014 $\pm$ 0.748  $\chi^2$ /NDF: 424.5/18

Left In: 7.345 $\pm$ 3.337  $\chi^2$ /NDF:0.0/0

Left: 28.373 $\pm$ 1.255  $\chi^2$ /NDF: 63.8/2

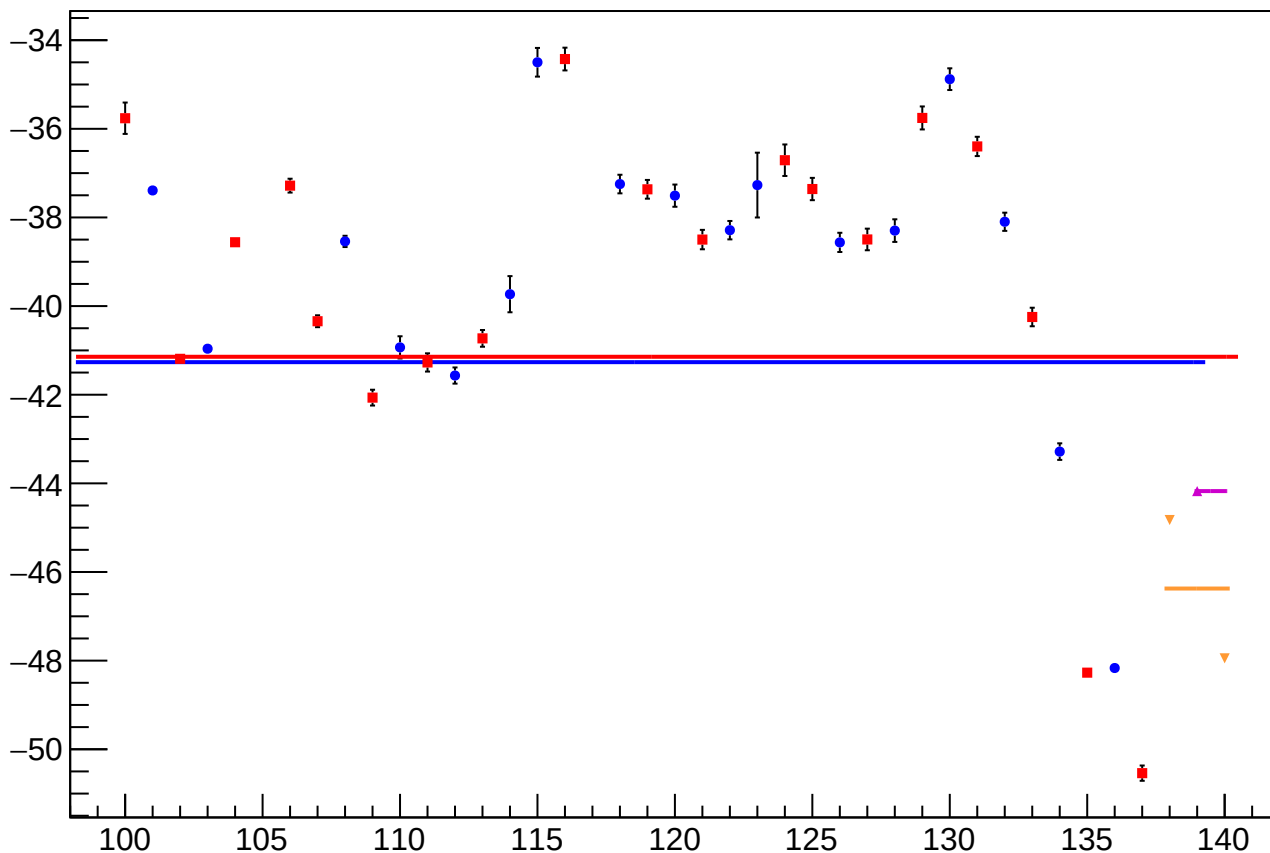
Right: 9.038 $\pm$ 0.516  $\chi^2$ /NDF: 826.6/35

In: 10.723 $\pm$ 0.698  $\chi^2$ /NDF:389.1/17

Out: 12.816 $\pm$ 0.655  $\chi^2$ /NDF:699.4/20

All: 11.836 $\pm$ 0.477  $\chi^2$ /NDF: 1093.3/38

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -41.265+/-0.038  $\chi^2/\text{NDF}$ : 12570.1/16

Left Out: -46.373+/-0.057  $\chi^2/\text{NDF}$ : 739.9/1

Right Out: -41.144+/-0.039  $\chi^2/\text{NDF}$ : 12218.7/18

Left In: -44.175+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left: -45.539+/-0.045  $\chi^2/\text{NDF}$ : 1297.8/2

Right: -41.205+/-0.027  $\chi^2/\text{NDF}$ : 24793.7/35

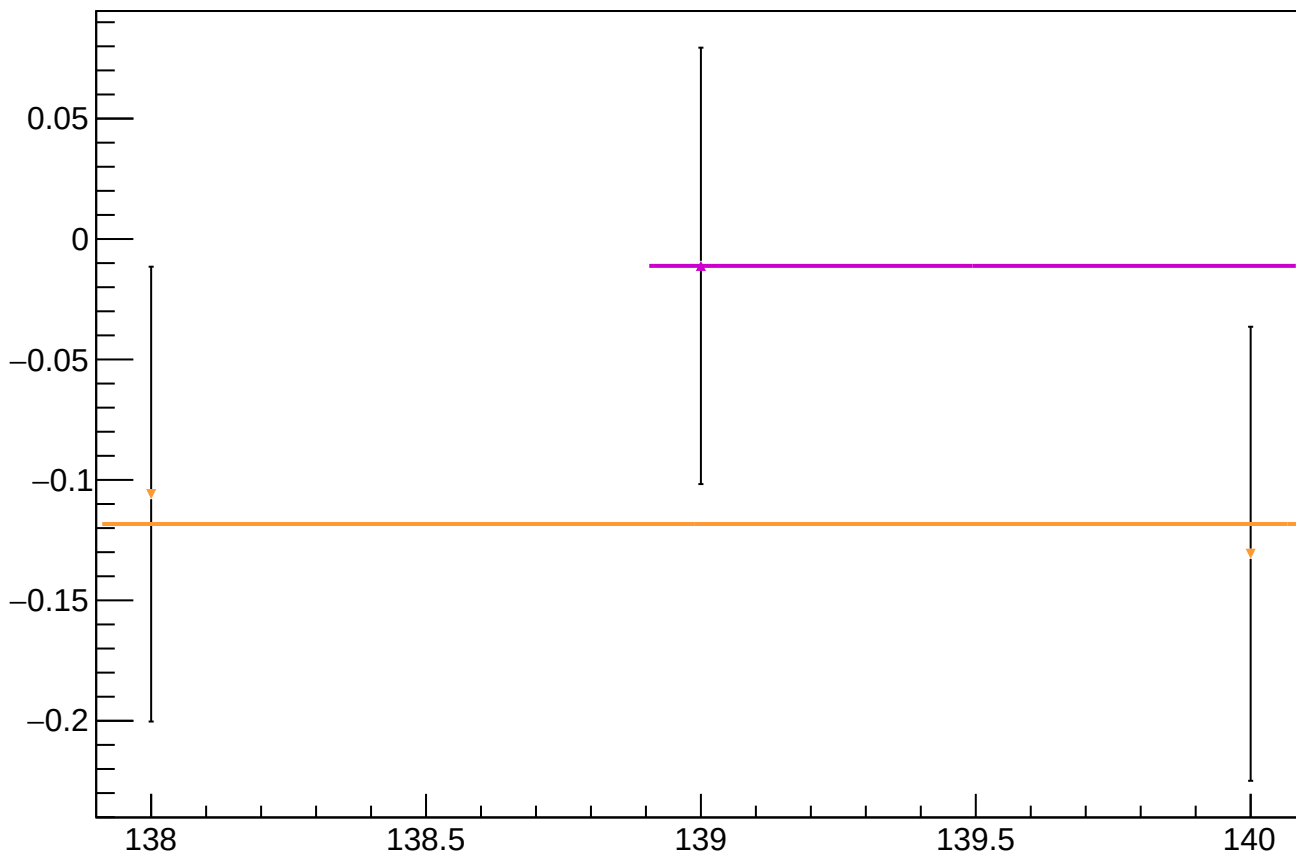
In: -41.894+/-0.034  $\chi^2/\text{NDF}$ : 13804.2/17

Out: -42.775+/-0.032  $\chi^2/\text{NDF}$ : 18678.1/20

All: -42.362+/-0.023  $\chi^2/\text{NDF}$ : 32837.0/38



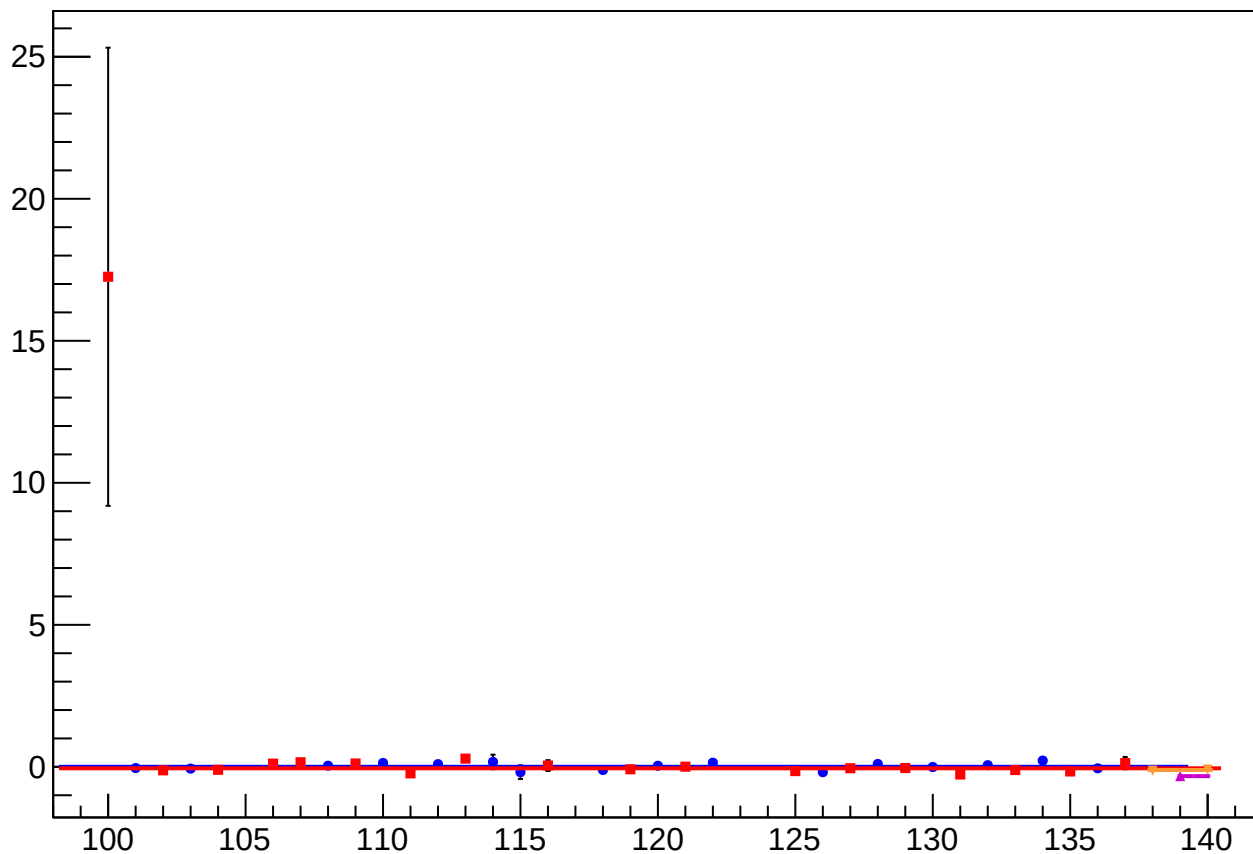
reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.118 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.011 $\pm$ 0.091  $\chi^2$ /NDF: 0.0/0

Left: -0.081 $\pm$ 0.054  $\chi^2$ /NDF: 0.9/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.011 $\pm$ 0.091  $\chi^2$ /NDF: 0.0/0  
 Out: -0.118 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/1  
 All: -0.081 $\pm$ 0.054  $\chi^2$ /NDF: 0.9/2

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:  $-0.111 \pm 0.062$   $\chi^2/\text{NDF}: 0.1/1$

Right Out:  $-0.051 \pm 0.029$   $\chi^2/\text{NDF}: 25.8/17$

Left In:  $-0.327 \pm 0.164$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-0.138 \pm 0.058$   $\chi^2/\text{NDF}: 1.6/2$

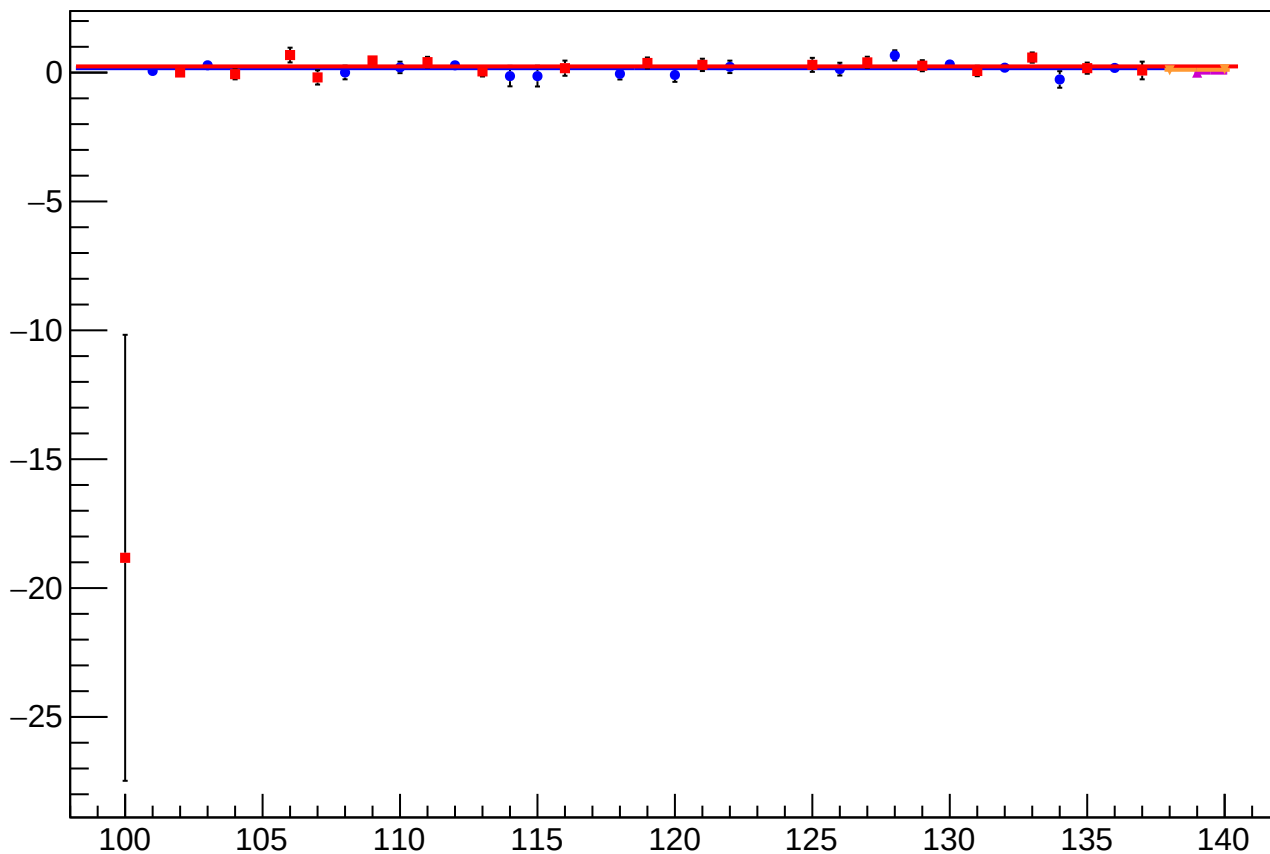
Right:  $-0.024 \pm 0.020$   $\chi^2/\text{NDF}: 40.0/33$

In:  $-0.008 \pm 0.028$   $\chi^2/\text{NDF}: 16.4/16$

Out:  $-0.062 \pm 0.027$   $\chi^2/\text{NDF}: 26.7/19$

All:  $-0.036 \pm 0.019$   $\chi^2/\text{NDF}: 45.1/36$

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: 0.109 $\pm$ 0.072  $\chi^2$ /NDF:0.1/1

Right Out: 0.239 $\pm$ 0.054  $\chi^2$ /NDF: 21.8/17

Left In: -0.002 $\pm$ 0.098  $\chi^2$ /NDF:0.0/0

Left: 0.070 $\pm$ 0.058  $\chi^2$ /NDF: 0.9/2

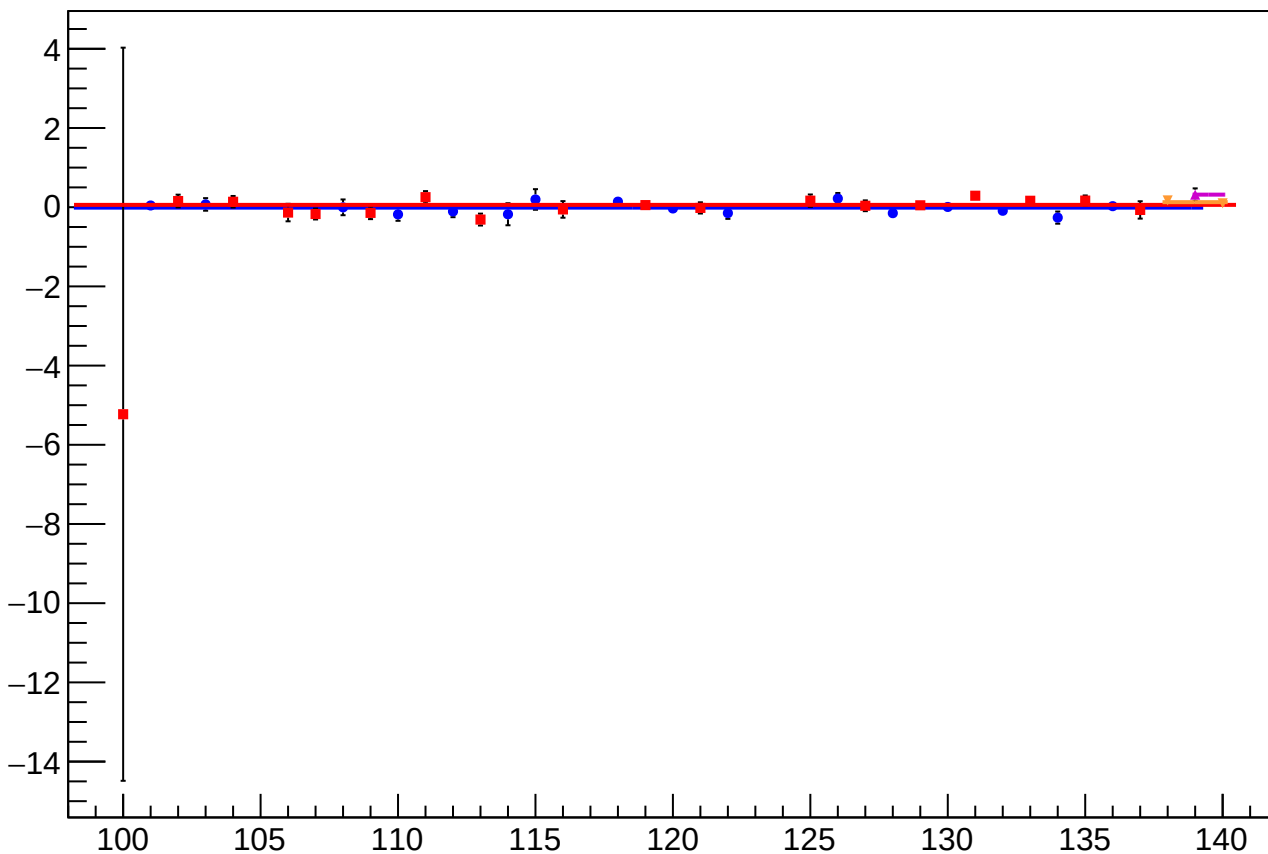
Right: 0.204 $\pm$ 0.038  $\chi^2$ /NDF: 36.3/33

In: 0.132 $\pm$ 0.046  $\chi^2$ /NDF:16.1/16

Out: 0.192 $\pm$ 0.043  $\chi^2$ /NDF:24.0/19

All: 0.164 $\pm$ 0.031  $\chi^2$ /NDF: 40.9/36

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:  $0.127 \pm 0.072$   $\chi^2/\text{NDF}$ : 0.2/1

Right Out:  $0.059 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.6/17

Left In:  $0.317 \pm 0.158$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.160 \pm 0.066$   $\chi^2/\text{NDF}$ : 1.4/2

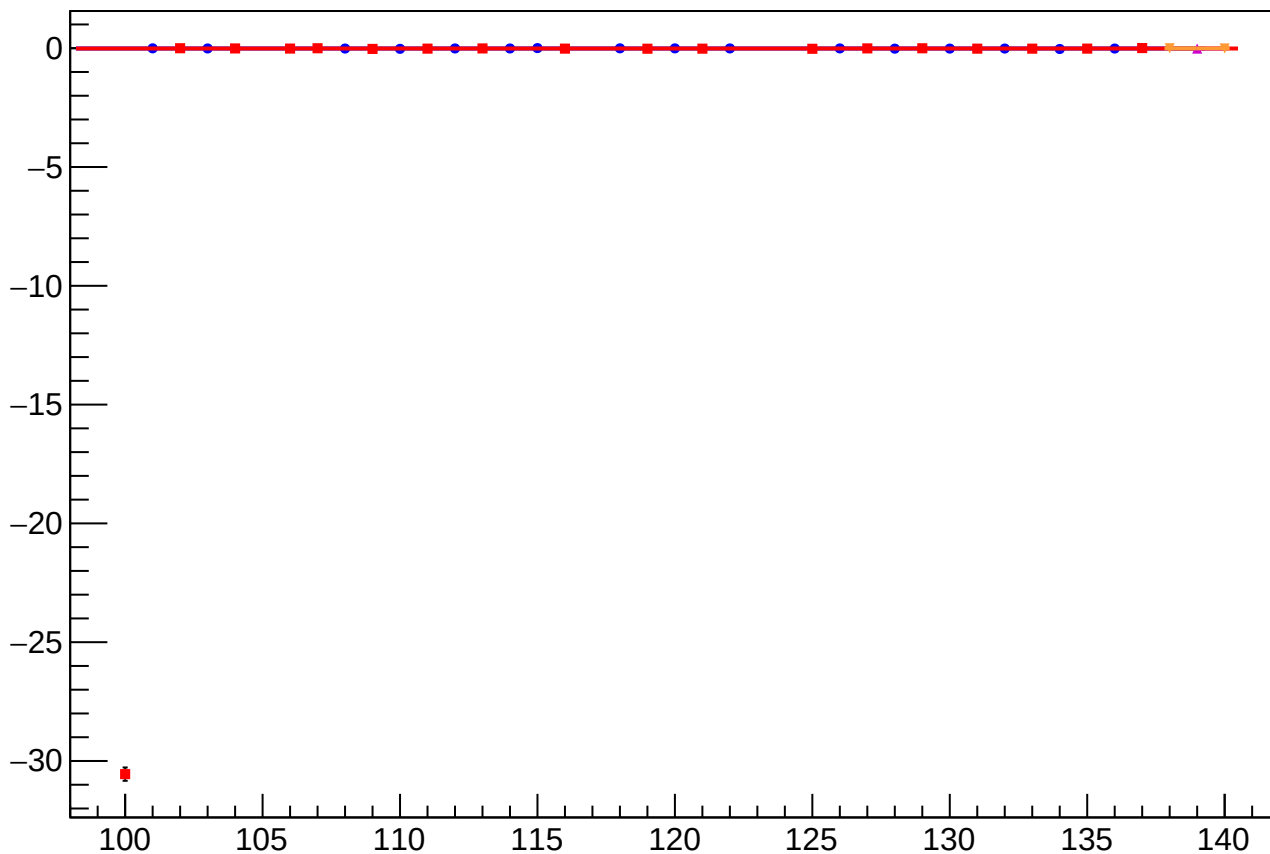
Right:  $0.022 \pm 0.023$   $\chi^2/\text{NDF}$ : 36.5/33

In:  $0.002 \pm 0.032$   $\chi^2/\text{NDF}$ : 17.9/16

Out:  $0.071 \pm 0.031$   $\chi^2/\text{NDF}$ : 21.6/19

All:  $0.038 \pm 0.022$   $\chi^2/\text{NDF}$ : 41.9/36

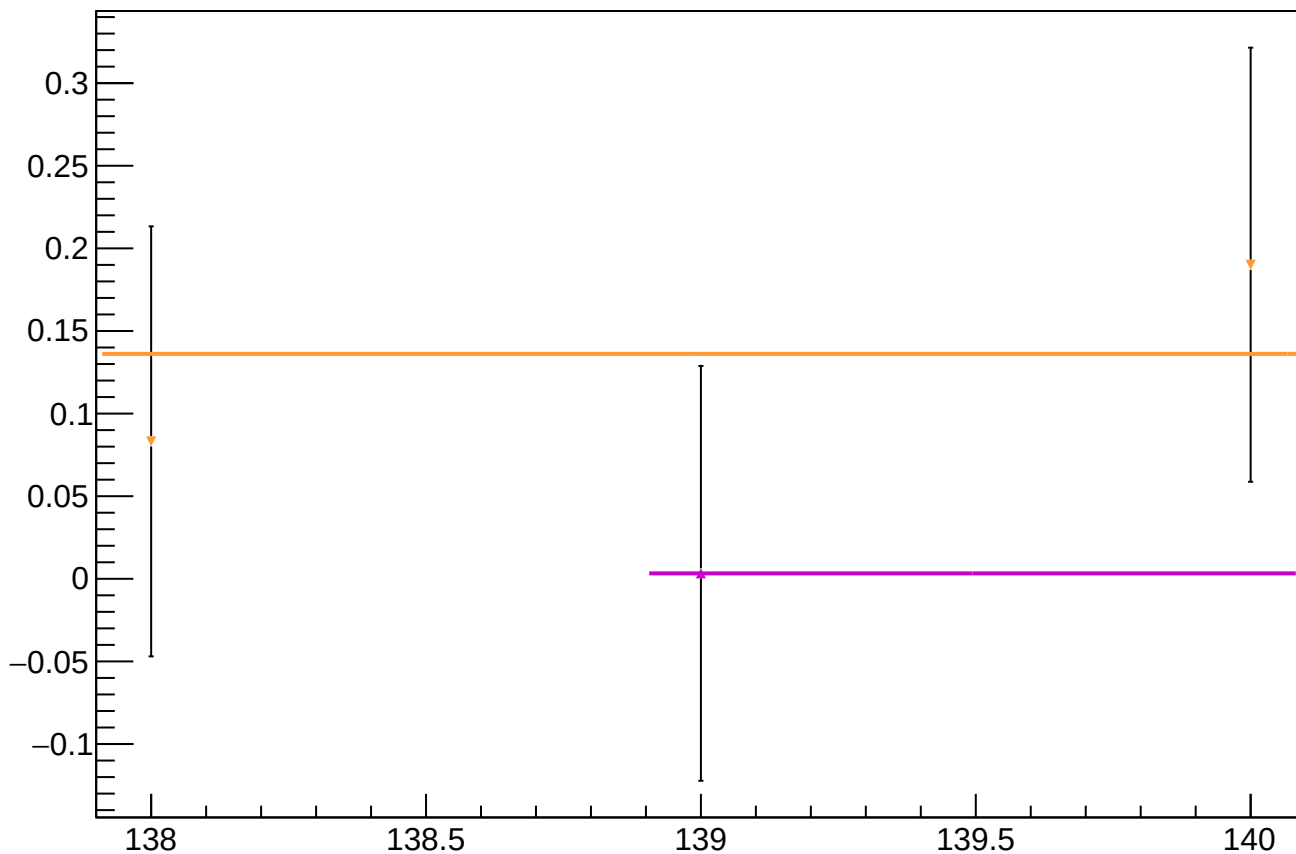
reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 12.9/15  
 Left Out: -0.005 $\pm$ 0.003  $\chi^2$ /NDF:2.1/1  
 Right Out: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 11891.5/17  
 Left In: -0.015 $\pm$ 0.003  $\chi^2$ /NDF:0.0/0

Left: -0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.9/2  
 Right: -0.012 $\pm$ 0.001  $\chi^2$ /NDF: 11904.4/33  
 In: -0.013 $\pm$ 0.002  $\chi^2$ /NDF:13.8/16  
 Out: -0.010 $\pm$ 0.002  $\chi^2$ /NDF:11897.4/19  
 All: -0.011 $\pm$ 0.001  $\chi^2$ /NDF: 11912.2/36

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.136+/-0.092  $\chi^2/\text{NDF}$ : 0.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.003+/-0.126  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.089+/-0.074  $\chi^2/\text{NDF}$ : 1.1/2

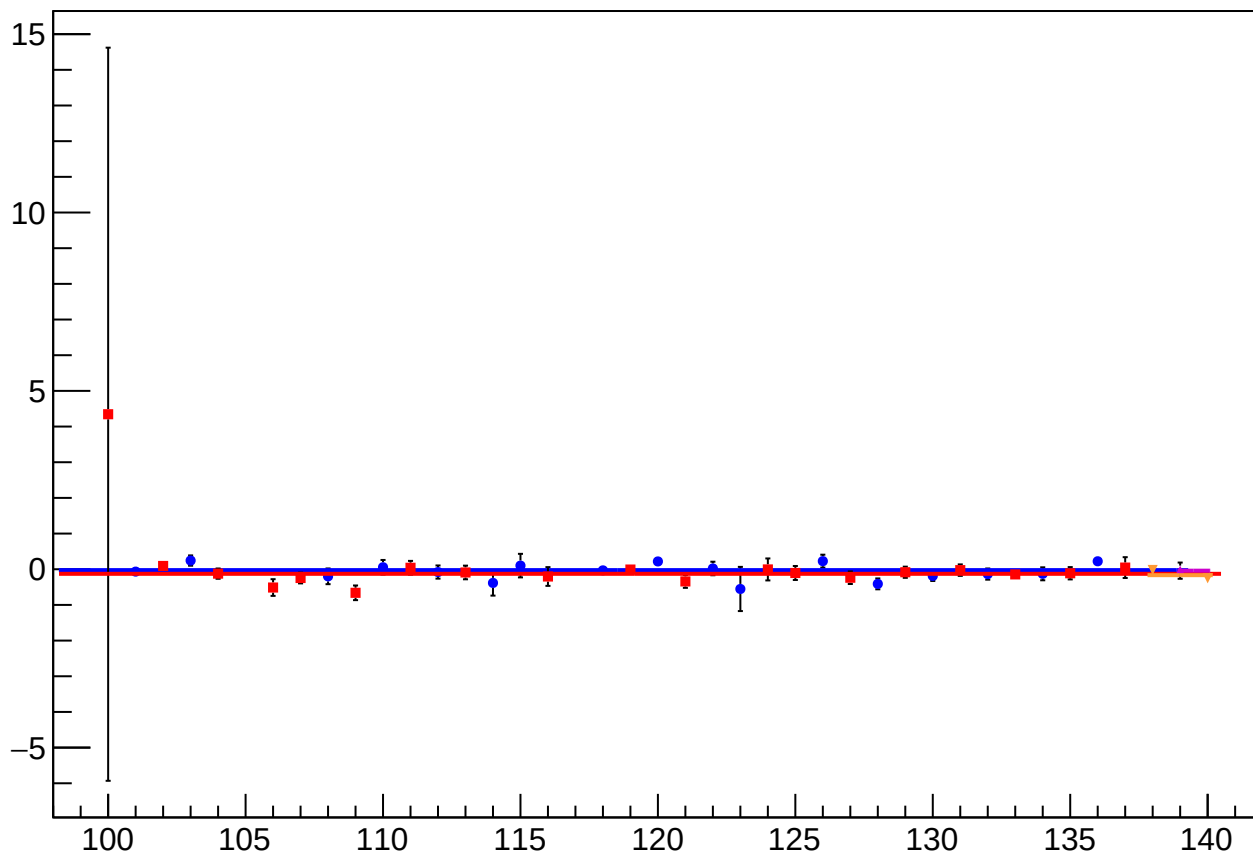
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.003+/-0.126  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.136+/-0.092  $\chi^2/\text{NDF}$ : 0.3/1

All: 0.089+/-0.074  $\chi^2/\text{NDF}$ : 1.1/2

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:  $-0.166 \pm 0.086$   $\chi^2/\text{NDF}$ : 1.7/1

Right Out:  $-0.128 \pm 0.039$   $\chi^2/\text{NDF}$ : 17.6/18

Left In:  $-0.040 \pm 0.227$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.151 \pm 0.080$   $\chi^2/\text{NDF}$ : 2.0/2

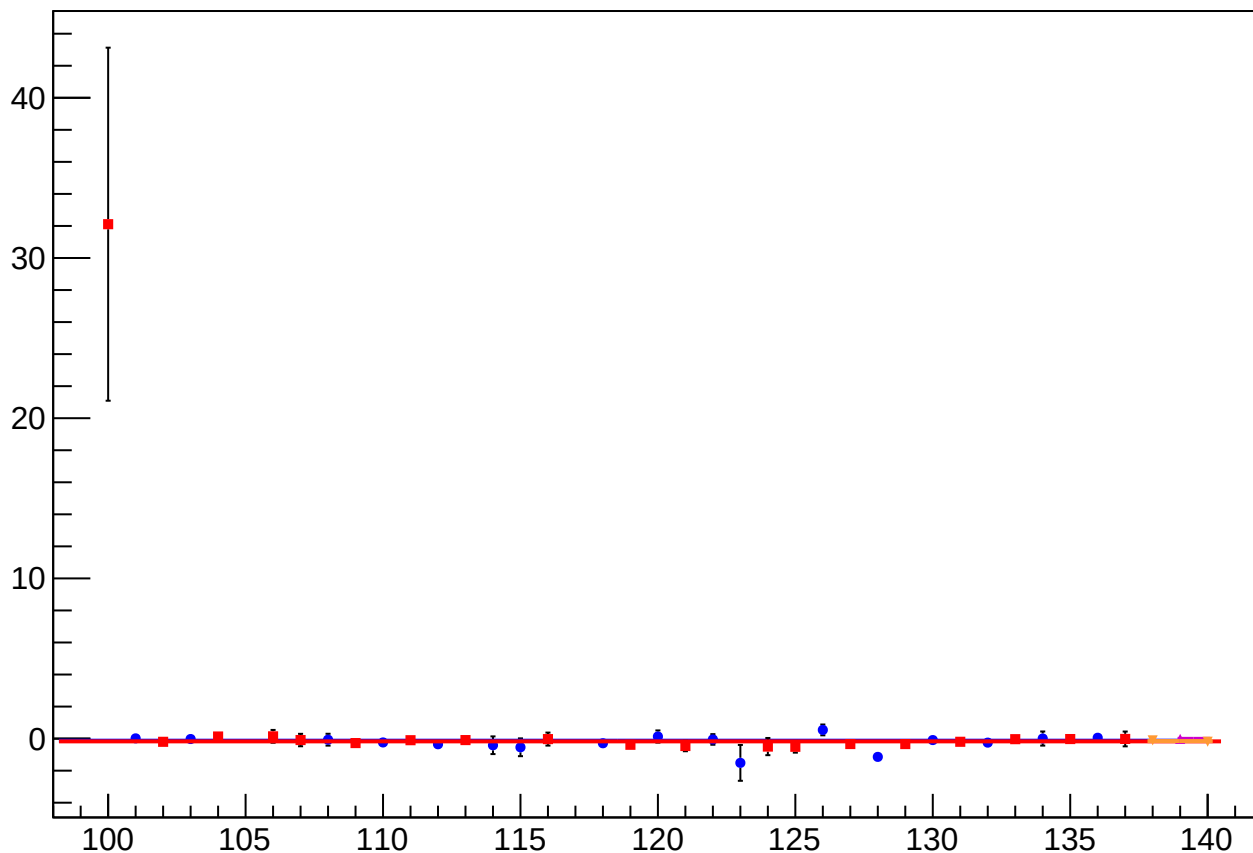
Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}$ : 44.7/35

In:  $-0.025 \pm 0.036$   $\chi^2/\text{NDF}$ : 23.4/17

Out:  $-0.135 \pm 0.036$   $\chi^2/\text{NDF}$ : 19.5/20

All:  $-0.080 \pm 0.025$   $\chi^2/\text{NDF}$ : 47.6/38

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:  $-0.152 \pm 0.099$   $\chi^2/\text{NDF}$ : 0.2/1

Right Out:  $-0.172 \pm 0.071$   $\chi^2/\text{NDF}$ : 15.0/18

Left In:  $-0.015 \pm 0.136$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.104 \pm 0.080$   $\chi^2/\text{NDF}$ : 0.8/2

Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}$ : 39.0/35

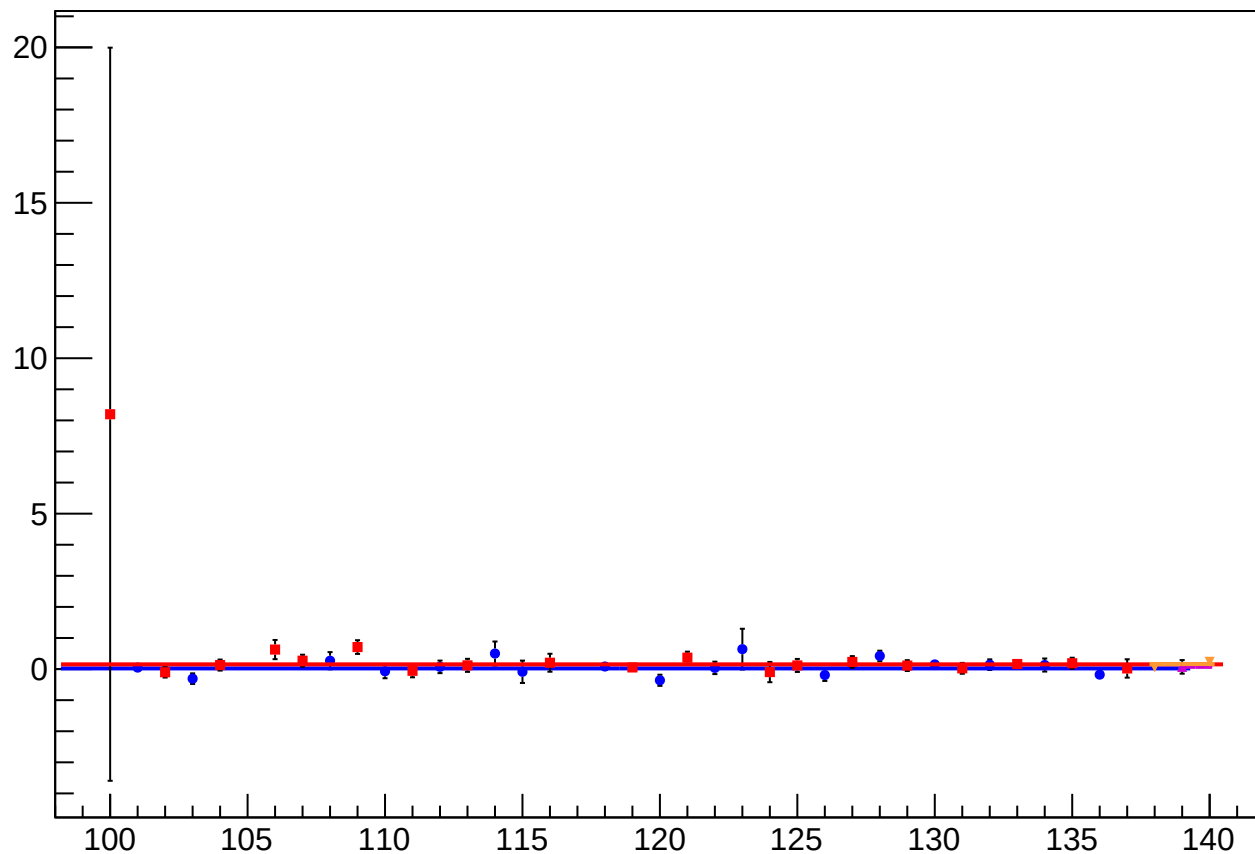
In:  $-0.107 \pm 0.060$   $\chi^2/\text{NDF}$ : 24.3/17

Out:  $-0.165 \pm 0.058$   $\chi^2/\text{NDF}$ : 15.2/20

All:  $-0.137 \pm 0.042$   $\chi^2/\text{NDF}$ : 40.0/38



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: 0.161+/-0.100  $\chi^2/\text{NDF}$ : 0.8/1

Right Out: 0.152+/-0.045  $\chi^2/\text{NDF}$ : 16.2/18

Left In: 0.071+/-0.219  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.146+/-0.091  $\chi^2/\text{NDF}$ : 0.9/2

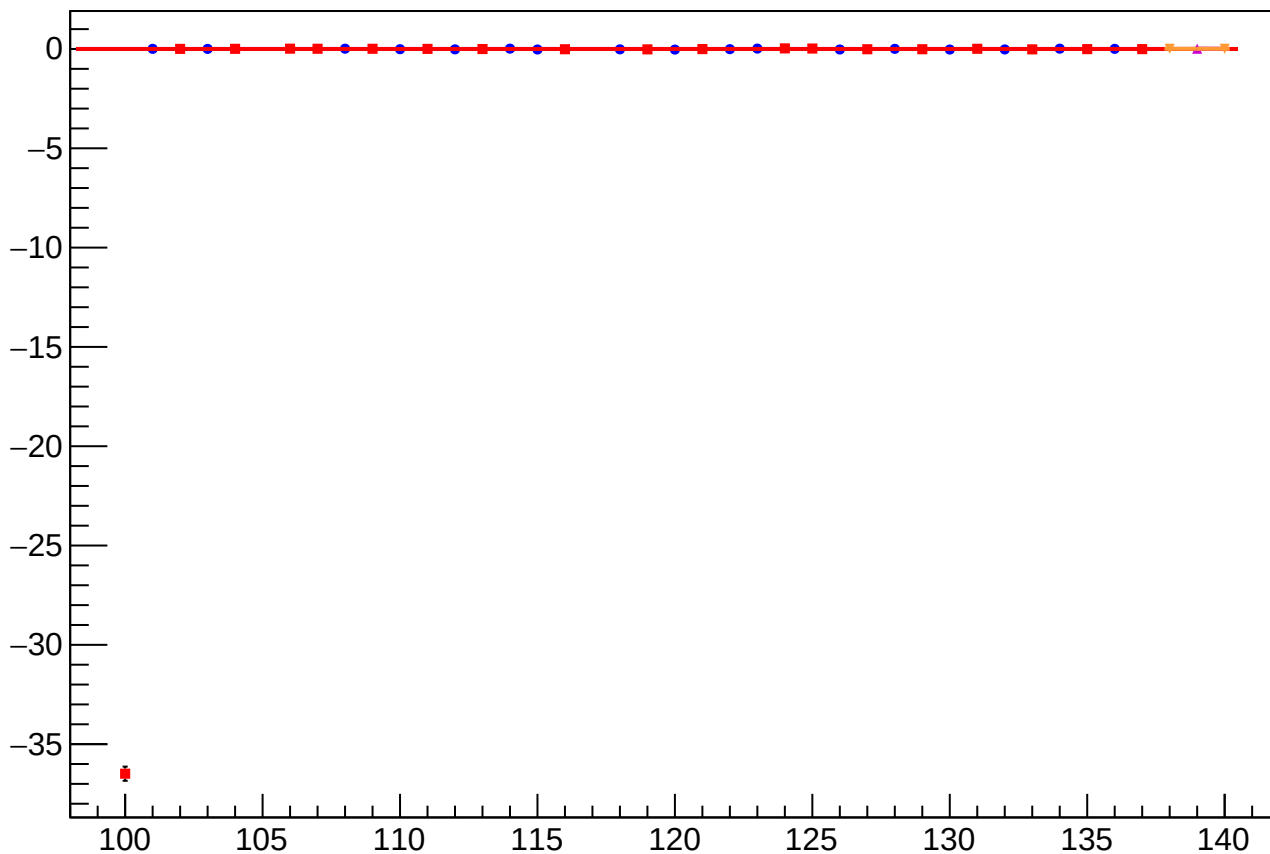
Right: 0.082+/-0.031  $\chi^2/\text{NDF}$ : 43.2/35

In: 0.023+/-0.042  $\chi^2/\text{NDF}$ : 22.6/17

Out: 0.154+/-0.041  $\chi^2/\text{NDF}$ : 17.0/20

All: 0.088+/-0.029  $\chi^2/\text{NDF}$ : 44.5/38

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: 0.012 $\pm$ 0.004  $\chi^2$ /NDF:0.0/1

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10449.1/18

Left In: 0.013 $\pm$ 0.005  $\chi^2$ /NDF:0.0/0

Left: 0.012 $\pm$ 0.003  $\chi^2$ /NDF: 0.1/2

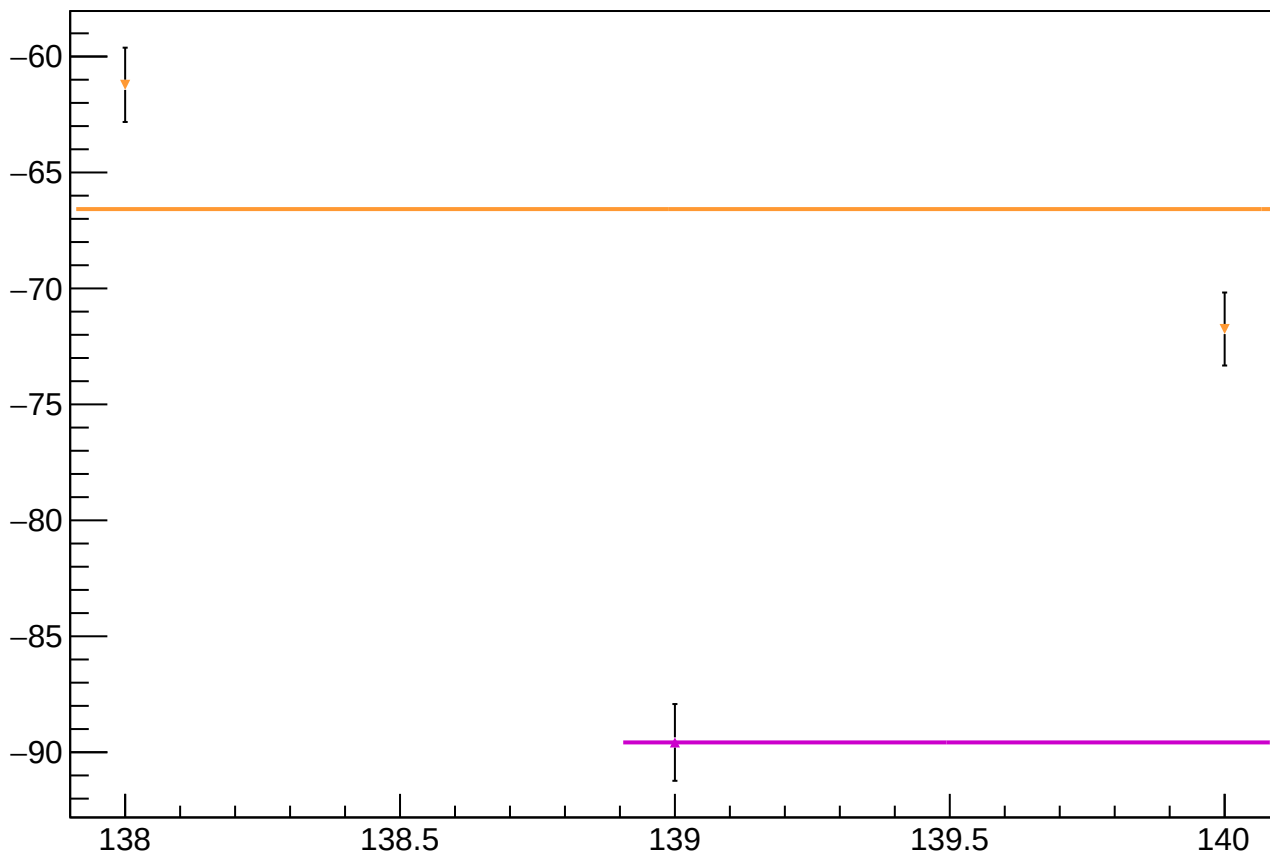
Right: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10481.5/35

In: 0.003 $\pm$ 0.002  $\chi^2$ /NDF:37.6/17

Out: 0.004 $\pm$ 0.002  $\chi^2$ /NDF:10454.5/20

All: 0.003 $\pm$ 0.001  $\chi^2$ /NDF: 10492.0/38

reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -66.579+/-1.123  $\chi^2/\text{NDF}$ :22.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -89.576+/-1.655  $\chi^2/\text{NDF}$ :0.0/0

Left: -73.827+/-0.929  $\chi^2/\text{NDF}$ : 154.2/2

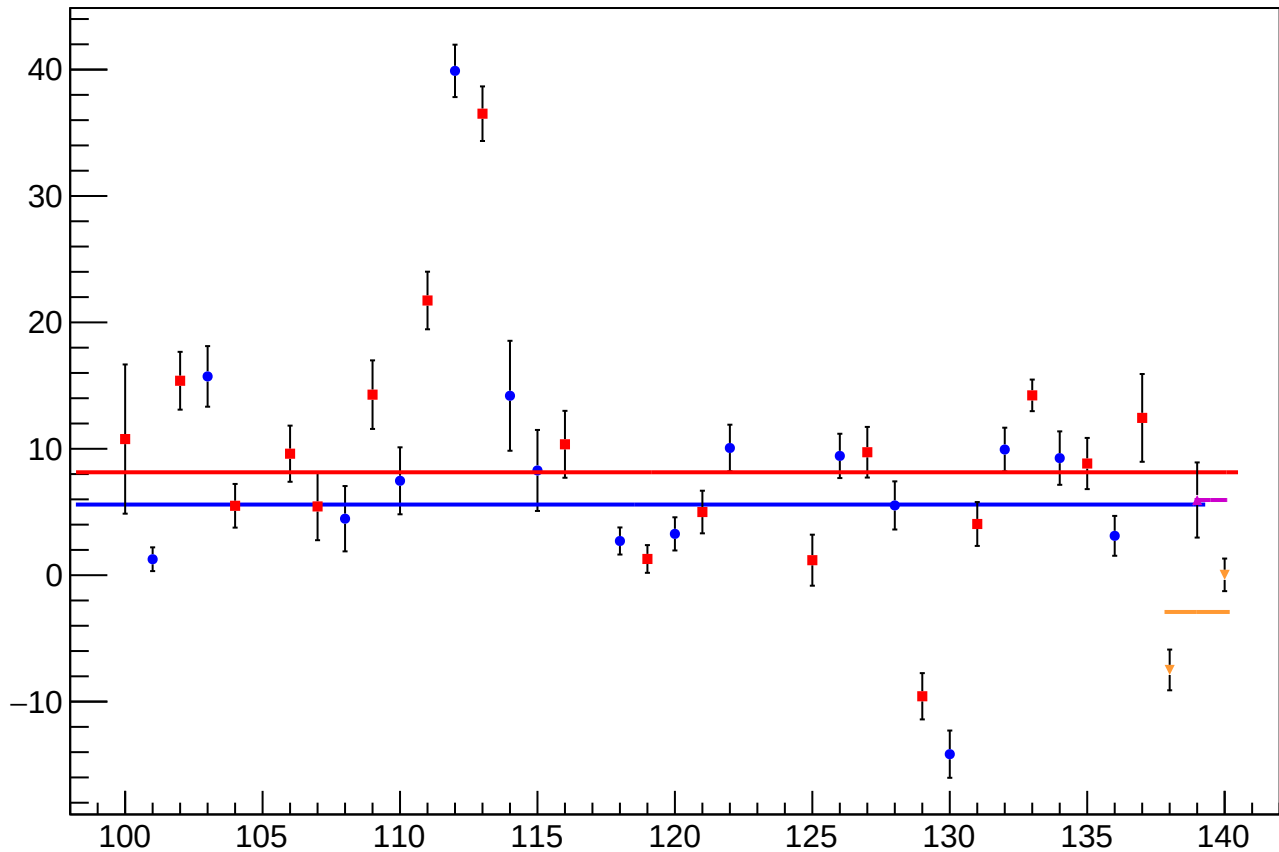
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -89.576+/-1.655  $\chi^2/\text{NDF}$ :0.0/0

Out: -66.579+/-1.123  $\chi^2/\text{NDF}$ :22.0/1

All: -73.827+/-0.929  $\chi^2/\text{NDF}$ : 154.2/2

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: -2.909 $\pm$ 1.006  $\chi^2$ /NDF:13.3/1

Right Out: 8.142 $\pm$ 0.454  $\chi^2$ /NDF: 407.7/17

Left In: 5.949 $\pm$ 2.973  $\chi^2$ /NDF:0.0/0

Left: -1.998 $\pm$ 0.953  $\chi^2$ /NDF: 21.3/2

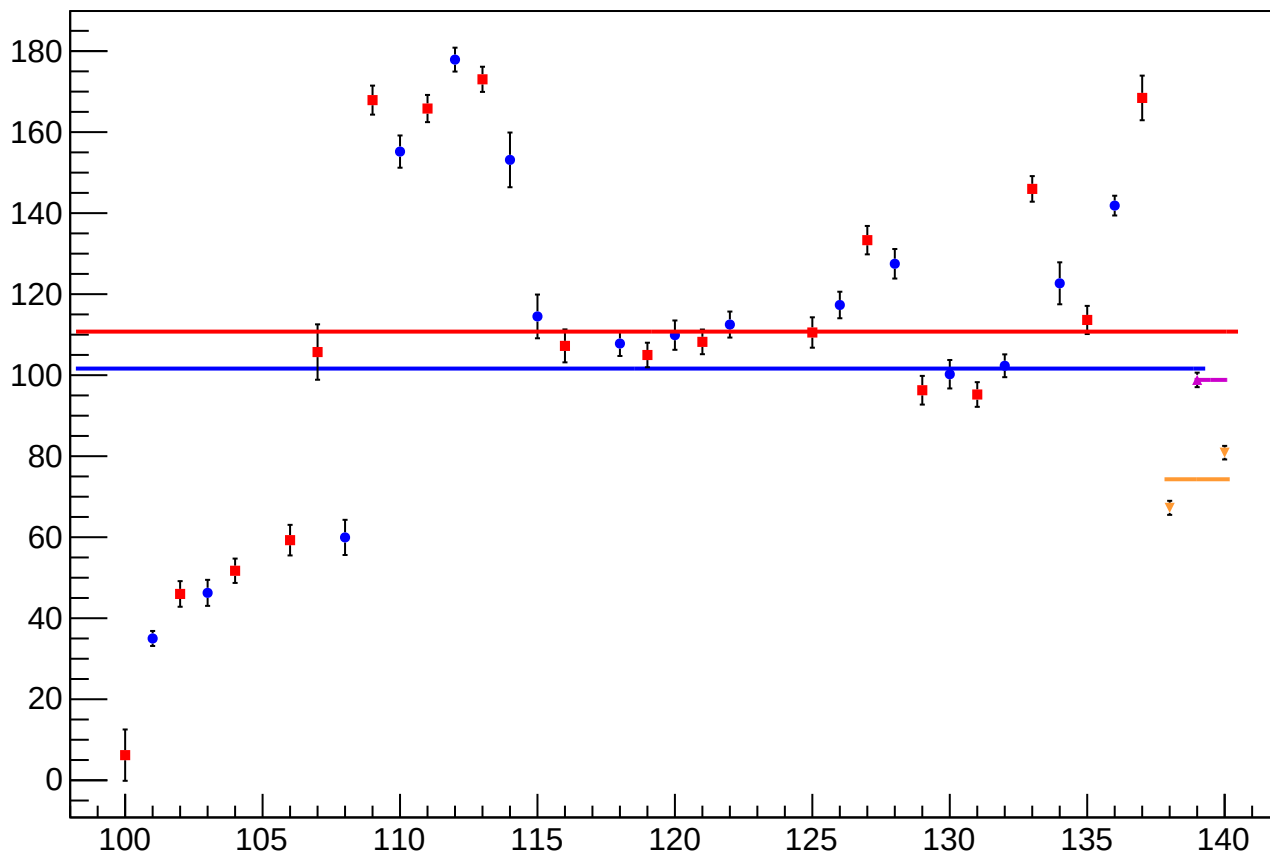
Right: 6.778 $\pm$ 0.310  $\chi^2$ /NDF: 887.4/33

In: 5.596 $\pm$ 0.419  $\chi^2$ /NDF:462.8/16

Out: 6.276 $\pm$ 0.414  $\chi^2$ /NDF:521.2/19

All: 5.941 $\pm$ 0.294  $\chi^2$ /NDF: 985.3/36

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 101.631+/-0.807  $\chi^2/\text{NDF}$ : 2978.9/15

Left Out: 74.305+/-1.206  $\chi^2/\text{NDF}$ :31.8/1

Right Out: 110.756+/-0.836  $\chi^2/\text{NDF}$ : 2513.0/17

Left In: 98.835+/-1.793  $\chi^2/\text{NDF}$ :0.0/0

Left: 81.946+/-1.001  $\chi^2/\text{NDF}$ : 160.8/2

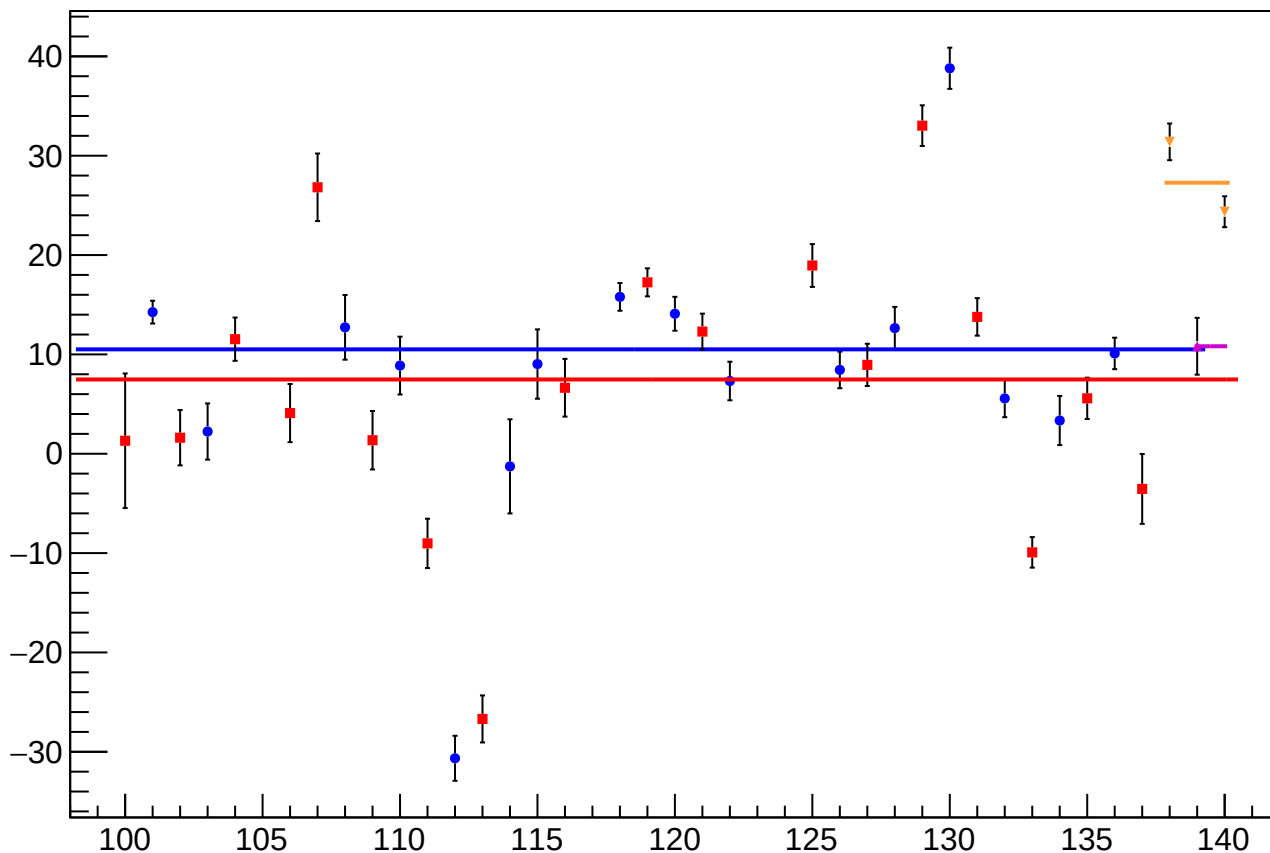
Right: 106.031+/-0.581  $\chi^2/\text{NDF}$ : 5553.5/33

In: 101.160+/-0.736  $\chi^2/\text{NDF}$ :2980.9/16

Out: 98.920+/-0.687  $\chi^2/\text{NDF}$ :3161.8/19

All: 99.964+/-0.502  $\chi^2/\text{NDF}$ : 6147.7/36

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: 27.282 $\pm$ 1.189  $\chi^2$ /NDF: 8.5/1

Right Out: 7.477 $\pm$ 0.524  $\chi^2$ /NDF: 689.3/17

Left In: 10.818 $\pm$ 2.861  $\chi^2$ /NDF: 0.0/0

Left: 24.856 $\pm$ 1.098  $\chi^2$ /NDF: 36.7/2

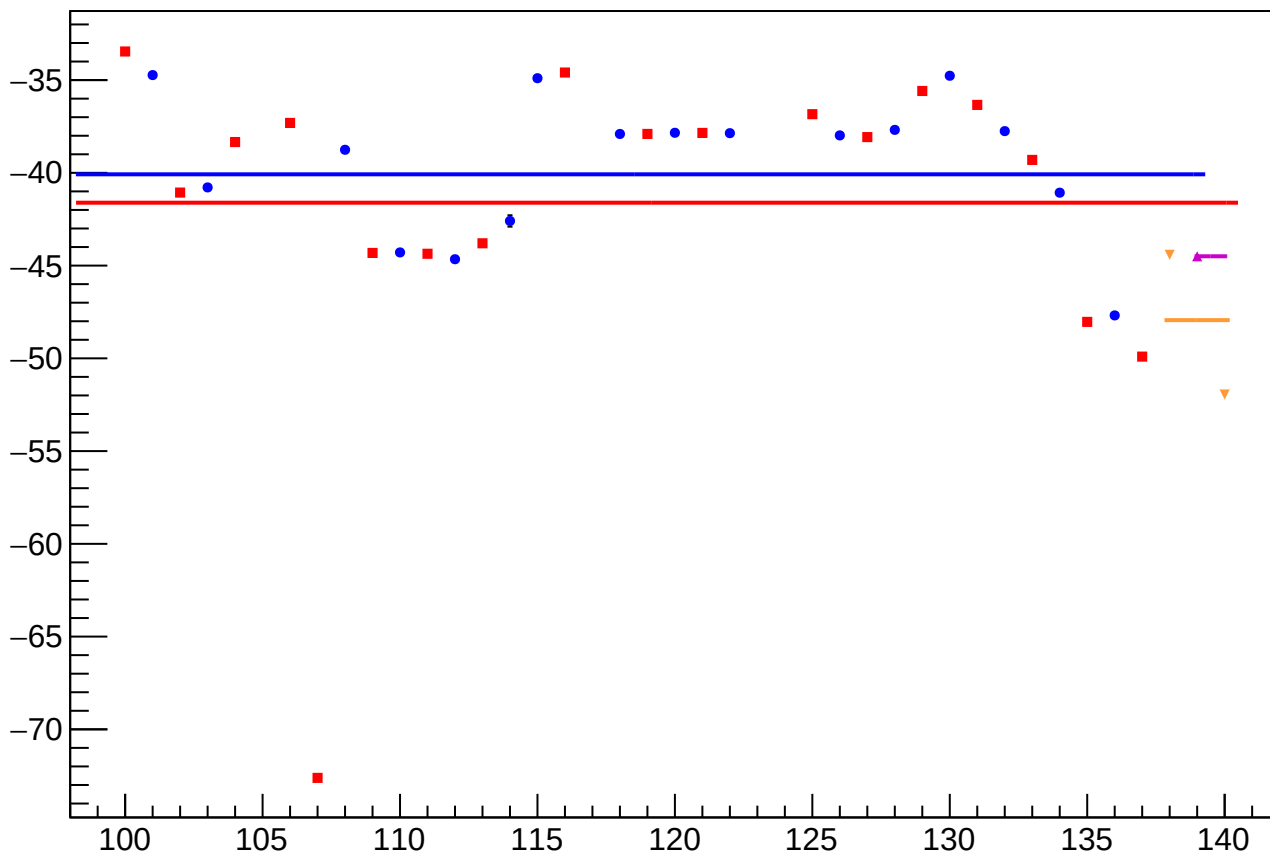
Right: 9.088 $\pm$ 0.359  $\chi^2$ /NDF: 1288.6/33

In: 10.517 $\pm$ 0.485  $\chi^2$ /NDF: 581.5/16

Out: 10.697 $\pm$ 0.480  $\chi^2$ /NDF: 930.1/19

All: 10.608 $\pm$ 0.341  $\chi^2$ /NDF: 1511.7/36

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:  $-47.940 \pm 0.050$   $\chi^2/\text{NDF}: 5625.7/1$

Right Out:  $-41.609 \pm 0.029$   $\chi^2/\text{NDF}: 61784.6/17$

Left In:  $-44.498 \pm 0.063$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-46.604 \pm 0.039$   $\chi^2/\text{NDF}: 7456.9/2$

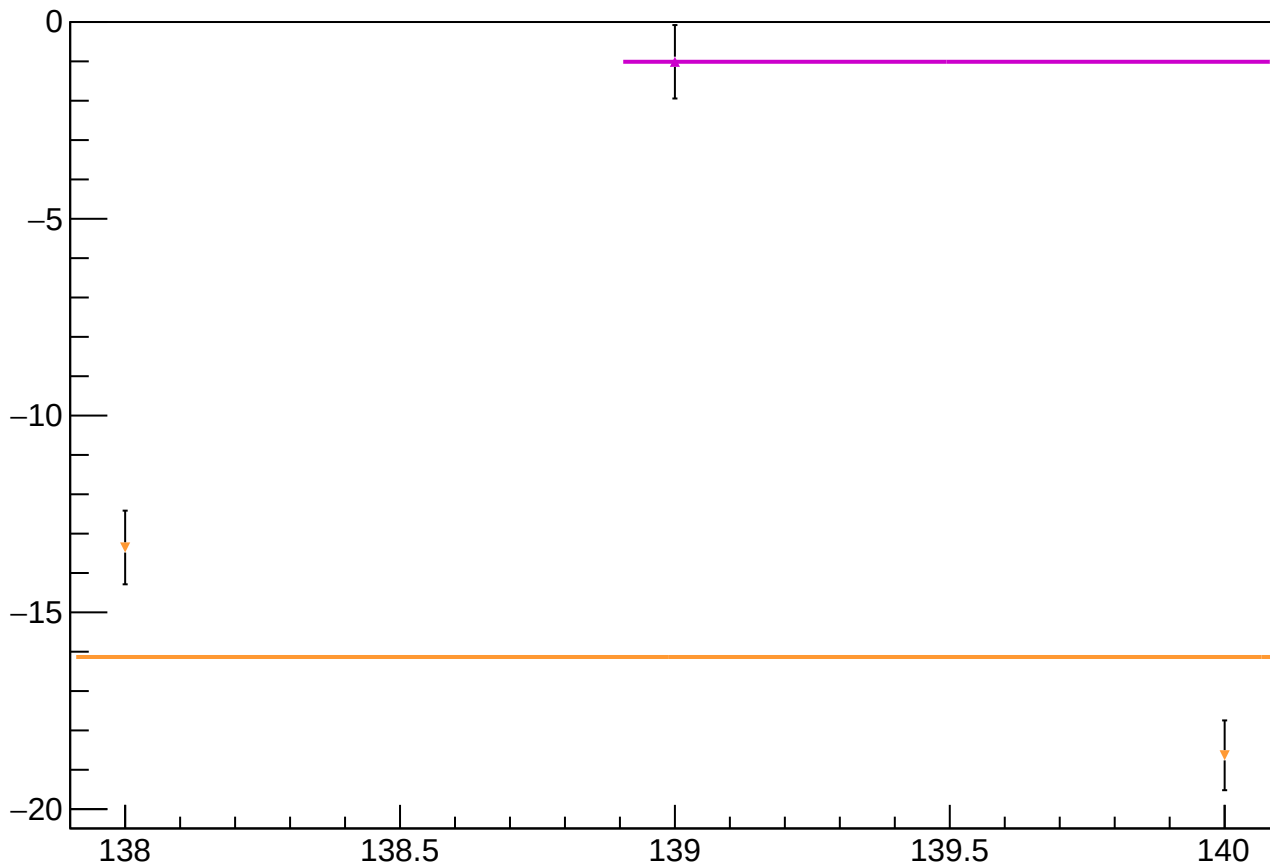
Right:  $-40.834 \pm 0.020$   $\chi^2/\text{NDF}: 88360.5/33$

In:  $-40.819 \pm 0.026$   $\chi^2/\text{NDF}: 29231.3/16$

Out:  $-43.163 \pm 0.025$   $\chi^2/\text{NDF}: 79455.8/19$

All:  $-42.033 \pm 0.018$   $\chi^2/\text{NDF}: 112986.6/36$

reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -16.134+/-0.644  $\chi^2/\text{NDF}$ : 16.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.010+/-0.933  $\chi^2/\text{NDF}$ : 0.0/0

Left: -11.258+/-0.530  $\chi^2/\text{NDF}$ : 194.8/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

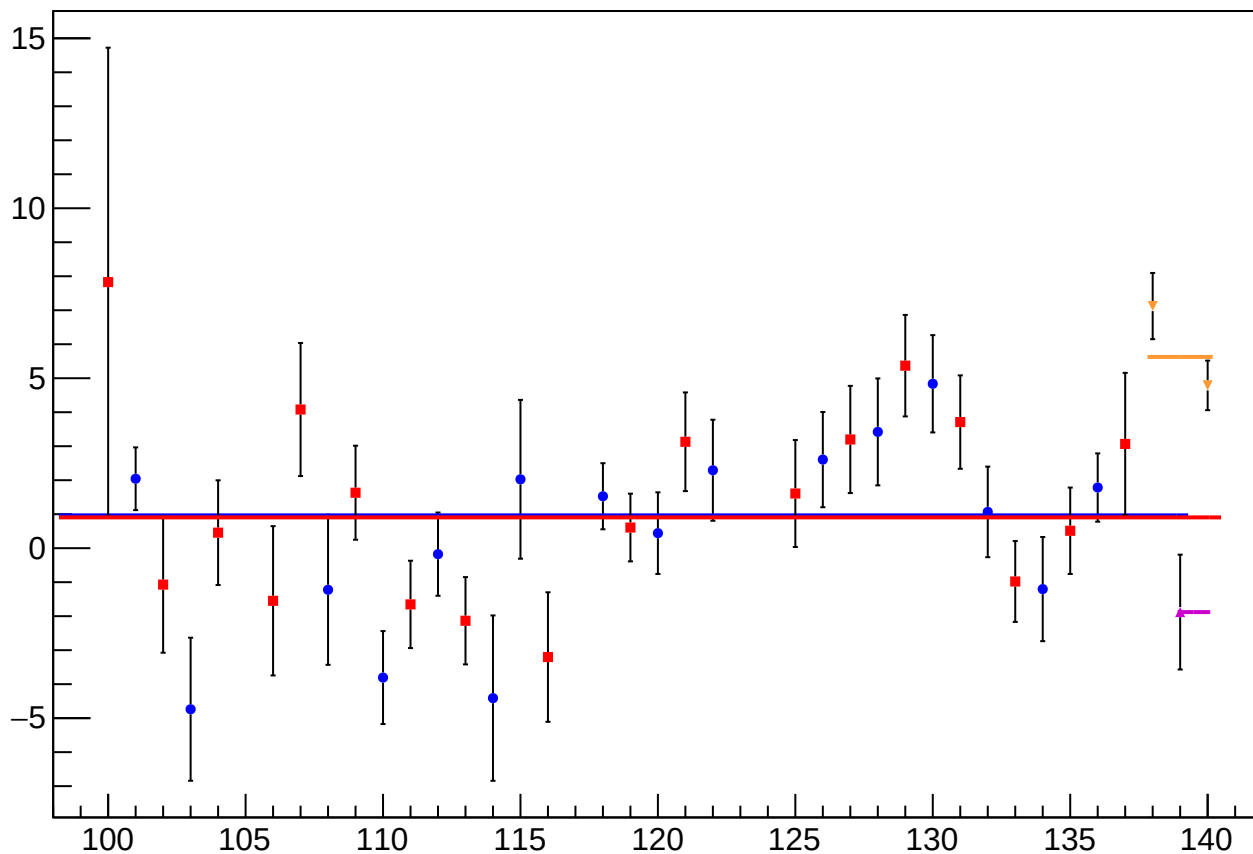
In: -1.010+/-0.933  $\chi^2/\text{NDF}$ : 0.0/0

Out: -16.134+/-0.644  $\chi^2/\text{NDF}$ : 16.8/1

All: -11.258+/-0.530  $\chi^2/\text{NDF}$ : 194.8/2



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:  $5.626 \pm 0.584$   $\chi^2/\text{NDF}$ : 3.7/1

Right Out:  $0.906 \pm 0.354$   $\chi^2/\text{NDF}$ : 42.0/17

Left In:  $-1.880 \pm 1.689$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $4.826 \pm 0.552$   $\chi^2/\text{NDF}$ : 21.3/2

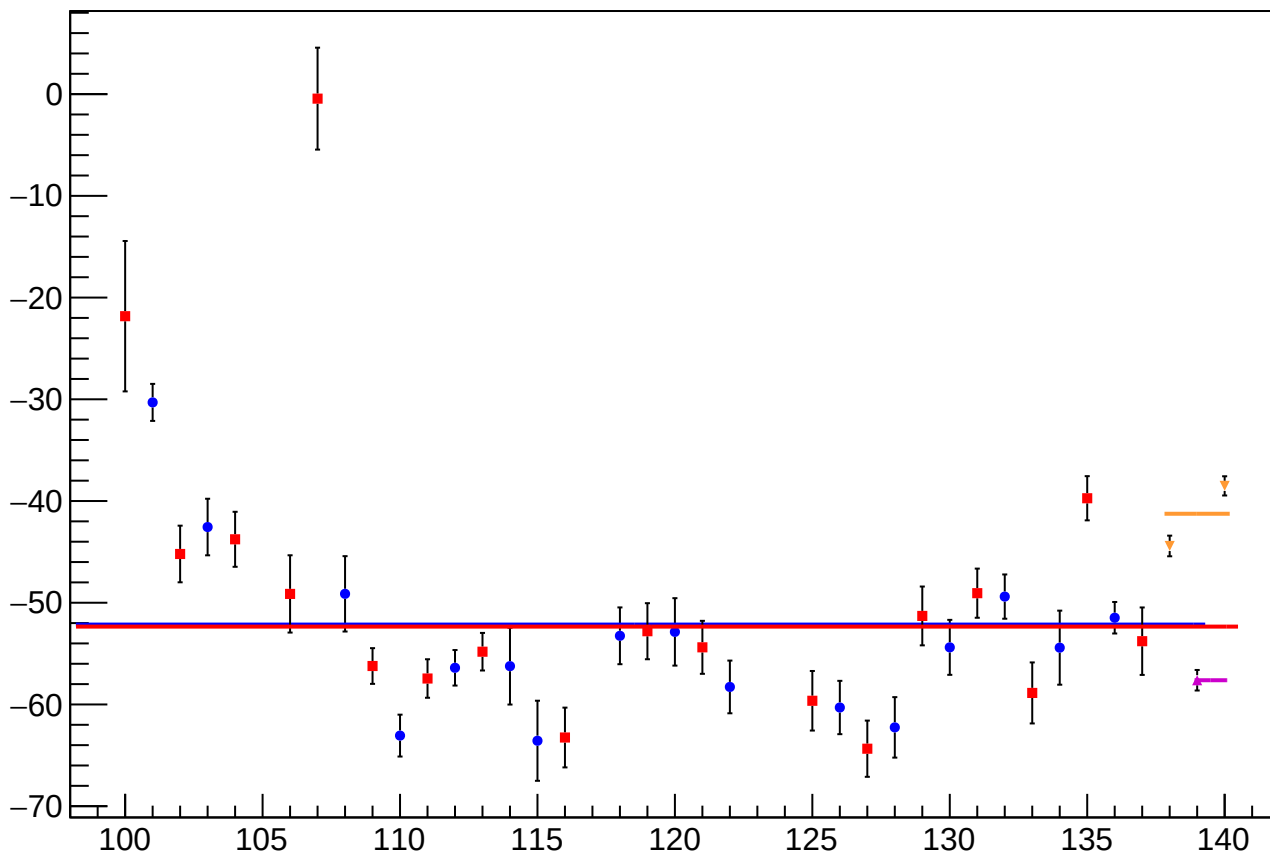
Right:  $0.937 \pm 0.244$   $\chi^2/\text{NDF}$ : 84.9/33

In:  $0.856 \pm 0.332$   $\chi^2/\text{NDF}$ : 45.7/16

Out:  $2.174 \pm 0.303$   $\chi^2/\text{NDF}$ : 93.5/19

All:  $1.575 \pm 0.223$   $\chi^2/\text{NDF}$ : 147.8/36

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:  $-41.253 \pm 0.691$   $\chi^2/\text{NDF}$ : 18.2/1

Right Out:  $-52.346 \pm 0.616$   $\chi^2/\text{NDF}$ : 235.7/17

Left In:  $-57.619 \pm 1.010$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-46.477 \pm 0.570$   $\chi^2/\text{NDF}$ : 197.0/2

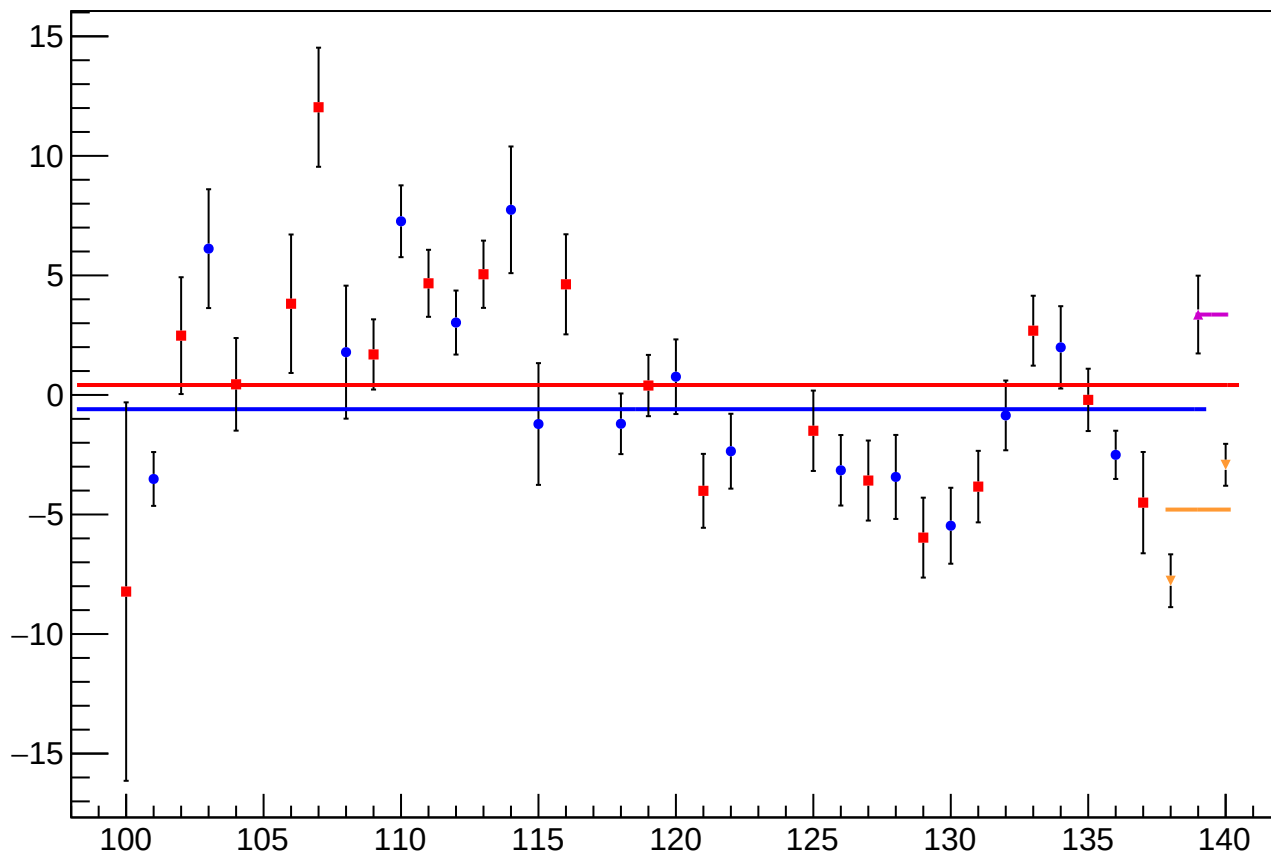
Right:  $-52.246 \pm 0.434$   $\chi^2/\text{NDF}$ : 466.0/33

In:  $-53.618 \pm 0.523$   $\chi^2/\text{NDF}$ : 251.7/16

Out:  $-47.439 \pm 0.460$   $\chi^2/\text{NDF}$ : 397.5/19

All:  $-50.131 \pm 0.345$   $\chi^2/\text{NDF}$ : 727.8/36

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:  $-4.795 \pm 0.687$   $\chi^2/\text{NDF}$ : 11.8/1

Right Out:  $0.416 \pm 0.400$   $\chi^2/\text{NDF}$ : 95.8/17

Left In:  $3.363 \pm 1.627$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-3.561 \pm 0.633$   $\chi^2/\text{NDF}$ : 33.2/2

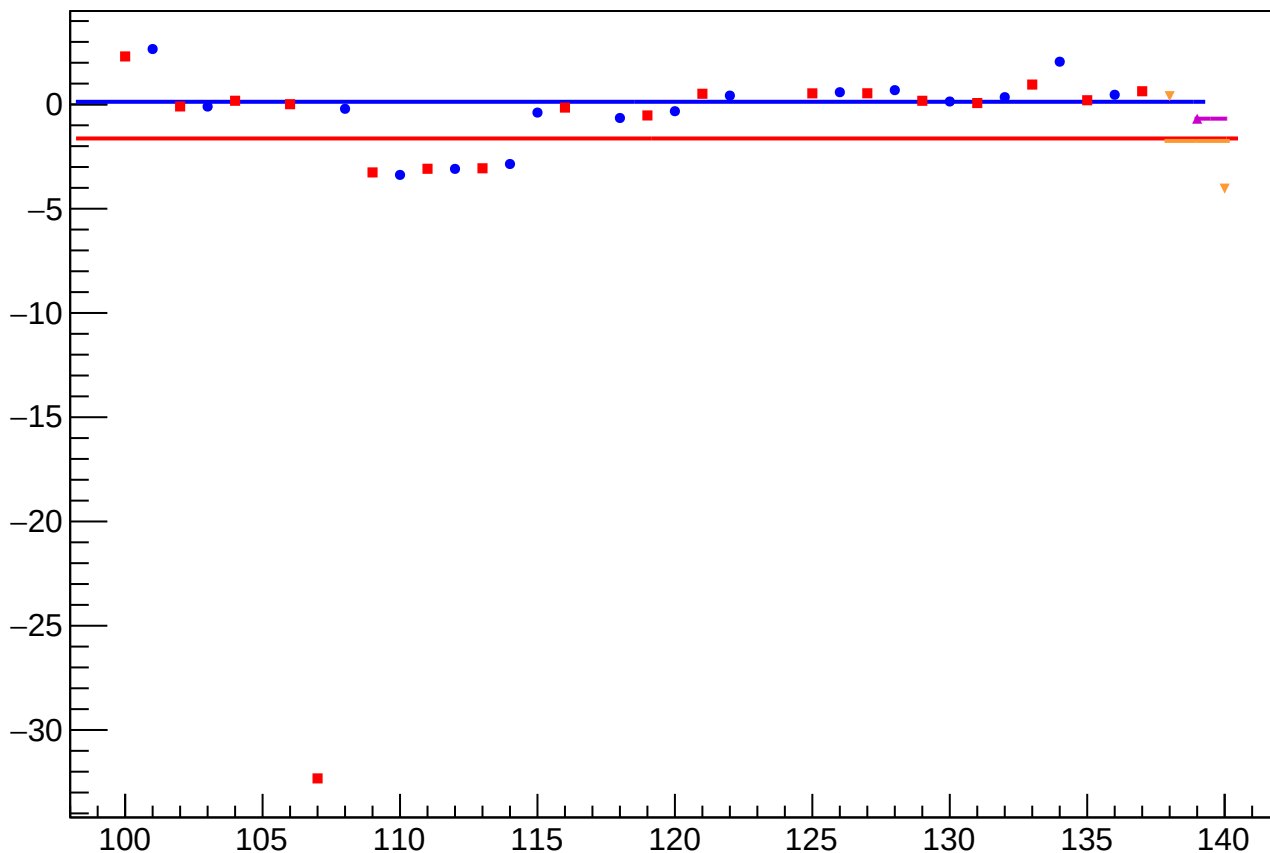
Right:  $-0.111 \pm 0.277$   $\chi^2/\text{NDF}$ : 181.7/33

In:  $-0.387 \pm 0.374$   $\chi^2/\text{NDF}$ : 88.2/16

Out:  $-0.903 \pm 0.345$   $\chi^2/\text{NDF}$ : 150.6/19

All:  $-0.665 \pm 0.254$   $\chi^2/\text{NDF}$ : 239.8/36

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:  $-1.749 \pm 0.029$   $\chi^2/\text{NDF}: 6030.7/1$

Right Out:  $-1.631 \pm 0.022$   $\chi^2/\text{NDF}: 77878.6/17$

Left In:  $-0.681 \pm 0.036$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-1.332 \pm 0.022$   $\chi^2/\text{NDF}: 6576.4/2$

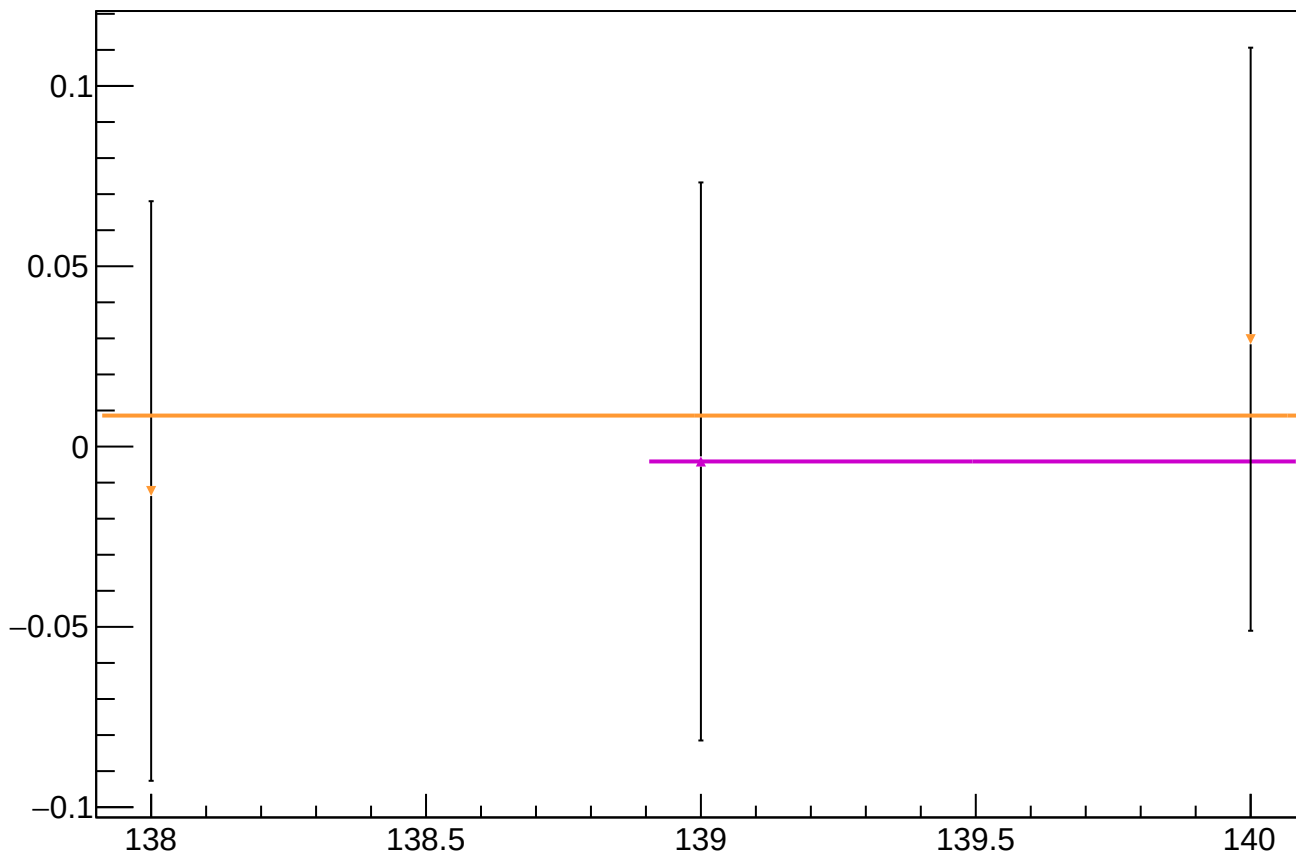
Right:  $-0.739 \pm 0.015$   $\chi^2/\text{NDF}: 86433.1/33$

In:  $-0.087 \pm 0.018$   $\chi^2/\text{NDF}: 5630.2/16$

Out:  $-1.674 \pm 0.017$   $\chi^2/\text{NDF}: 83920.0/19$

All:  $-0.929 \pm 0.013$   $\chi^2/\text{NDF}: 93491.3/36$

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: 0.009 $\pm$ 0.057  $\chi^2$ /NDF:0.1/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.004 $\pm$ 0.077  $\chi^2$ /NDF:0.0/0

Left: 0.004 $\pm$ 0.046  $\chi^2$ /NDF: 0.2/2

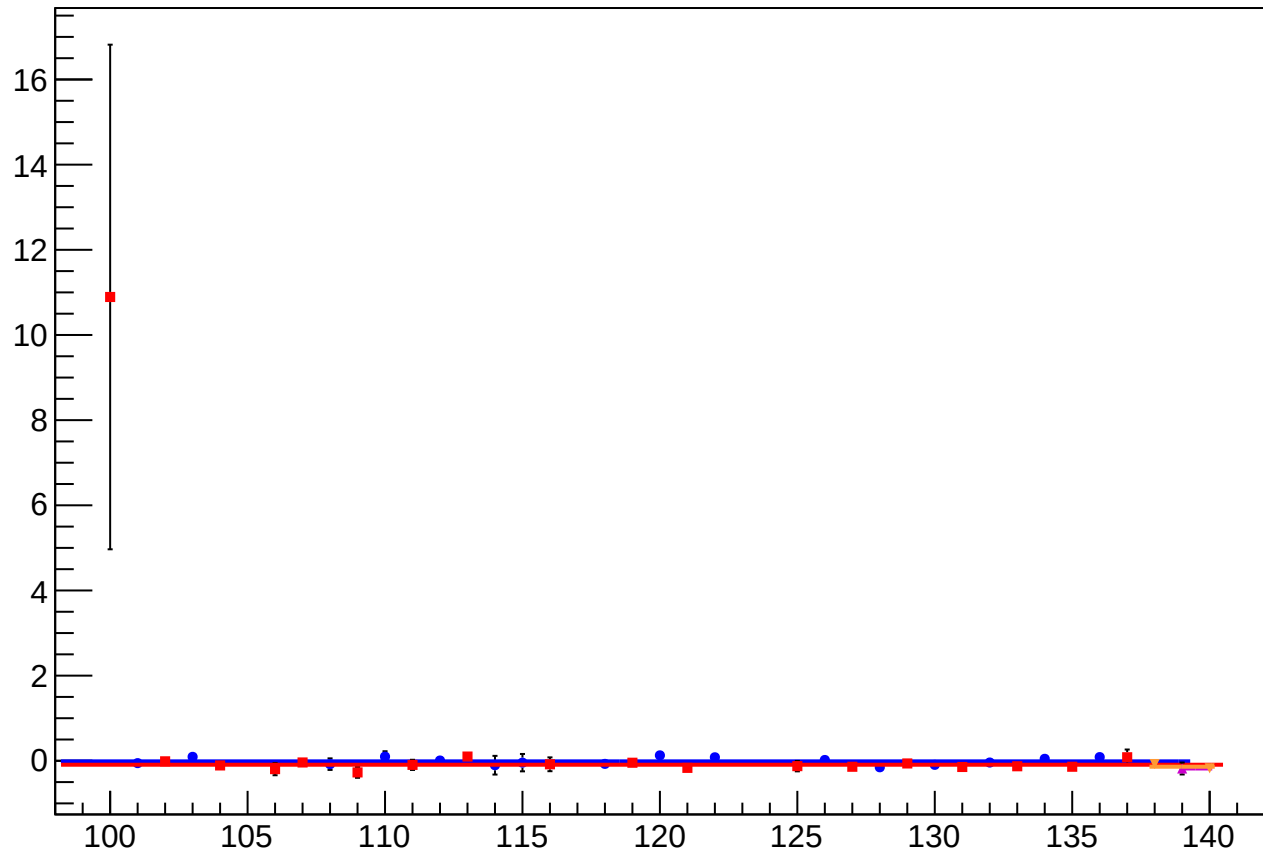
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.004 $\pm$ 0.077  $\chi^2$ /NDF:0.0/0

Out: 0.009 $\pm$ 0.057  $\chi^2$ /NDF:0.1/1

All: 0.004 $\pm$ 0.046  $\chi^2$ /NDF: 0.2/2

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: -0.139 $\pm$ 0.053  $\chi^2$ /NDF:0.9/1

Right Out: -0.092 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/17

Left In: -0.181 $\pm$ 0.140  $\chi^2$ /NDF:0.0/0

Left: -0.144 $\pm$ 0.049  $\chi^2$ /NDF: 0.9/2

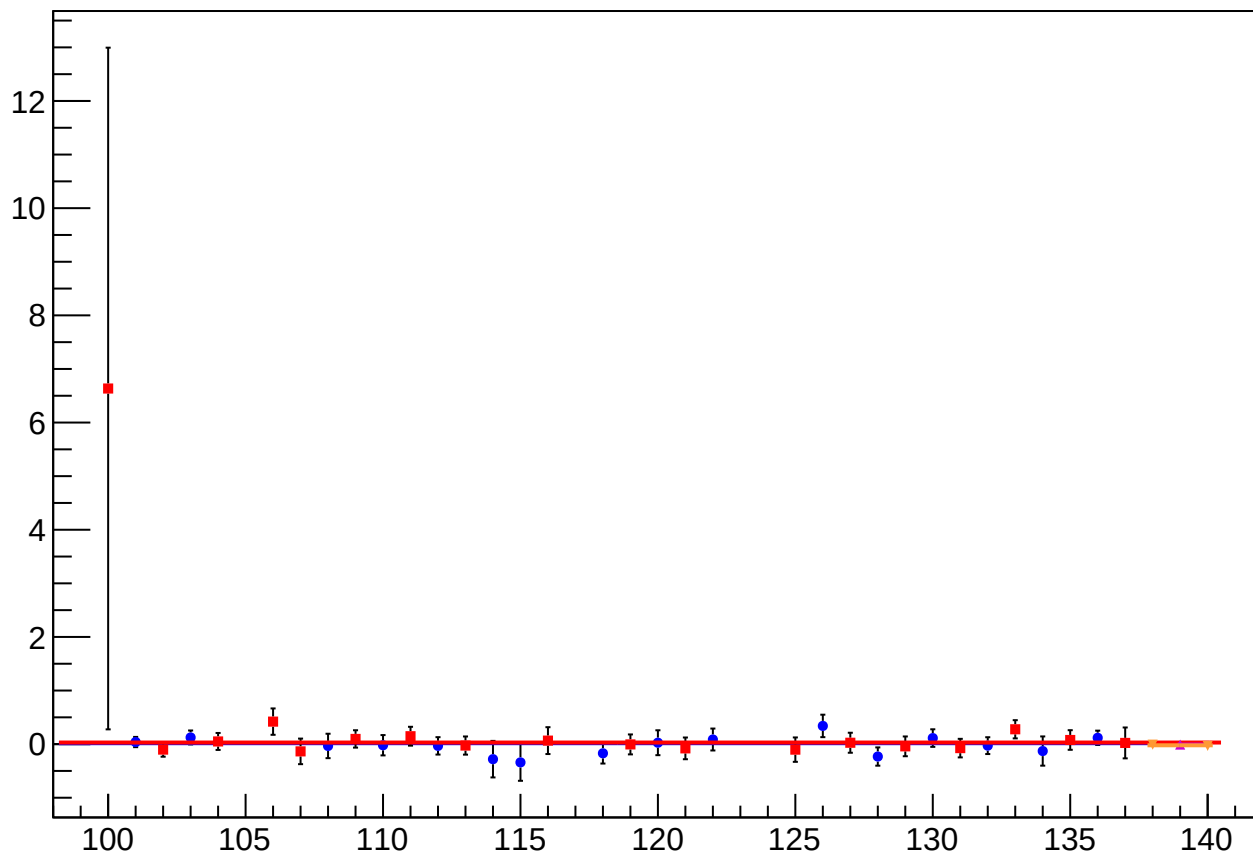
Right: -0.050 $\pm$ 0.017  $\chi^2$ /NDF: 30.3/33

In: -0.017 $\pm$ 0.023  $\chi^2$ /NDF:13.6/16

Out: -0.101 $\pm$ 0.022  $\chi^2$ /NDF:14.2/19

All: -0.060 $\pm$ 0.016  $\chi^2$ /NDF: 34.5/36

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.017+/-0.043  $\chi^2/\text{NDF}$ : 9.6/15

Left Out: -0.022+/-0.061  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.030+/-0.045  $\chi^2/\text{NDF}$ : 9.2/17

Left In: -0.008+/-0.084  $\chi^2/\text{NDF}$ : 0.0/0

Left: -0.017+/-0.049  $\chi^2/\text{NDF}$ : 0.1/2

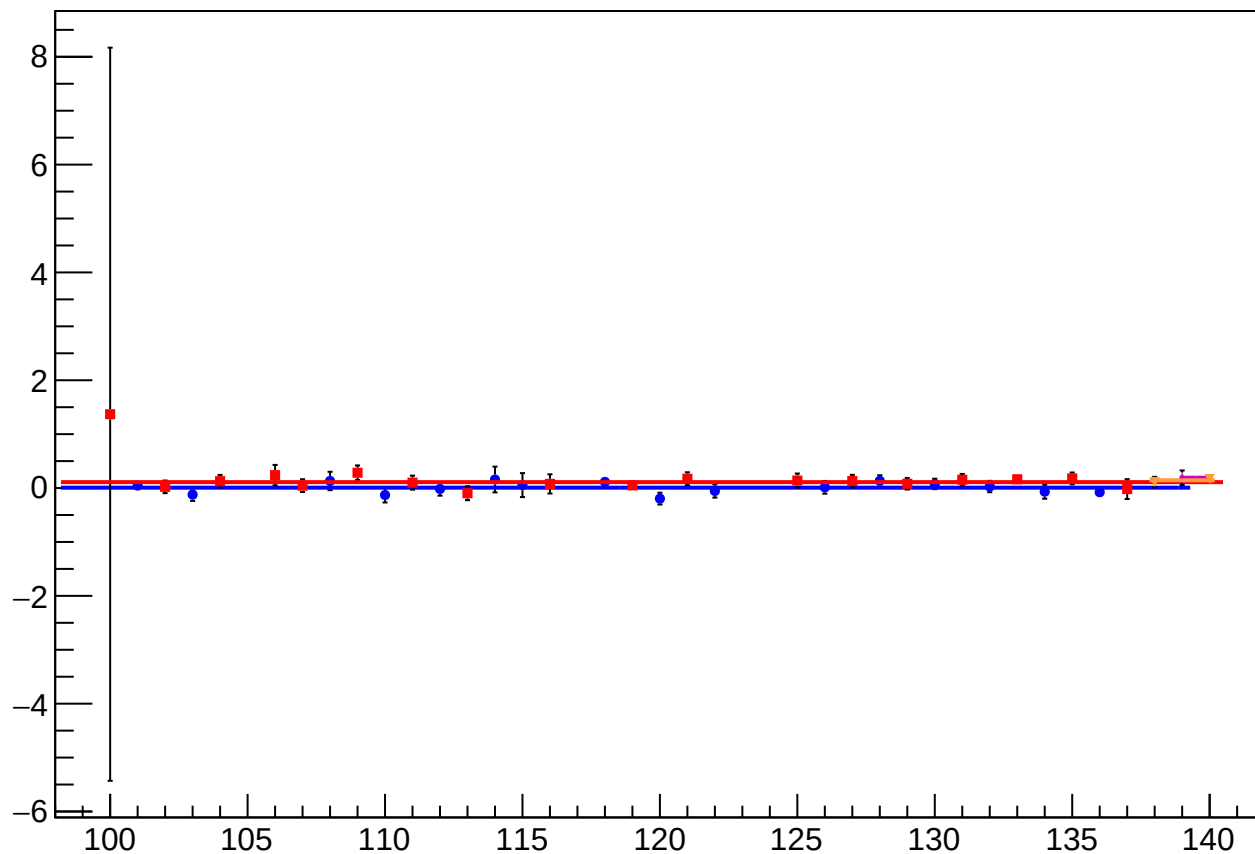
Right: 0.023+/-0.031  $\chi^2/\text{NDF}$ : 18.9/33

In: 0.012+/-0.038  $\chi^2/\text{NDF}$ : 9.7/16

Out: 0.012+/-0.036  $\chi^2/\text{NDF}$ : 9.7/19

All: 0.012+/-0.026  $\chi^2/\text{NDF}$ : 19.4/36

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.027  $\chi^2$ /NDF: 12.1/15

Left Out: 0.144 $\pm$ 0.062  $\chi^2$ /NDF: 0.2/1

Right Out: 0.110 $\pm$ 0.029  $\chi^2$ /NDF: 8.0/17

Left In: 0.191 $\pm$ 0.135  $\chi^2$ /NDF: 0.0/0

Left: 0.152 $\pm$ 0.056  $\chi^2$ /NDF: 0.3/2

Right: 0.055 $\pm$ 0.020  $\chi^2$ /NDF: 27.0/33

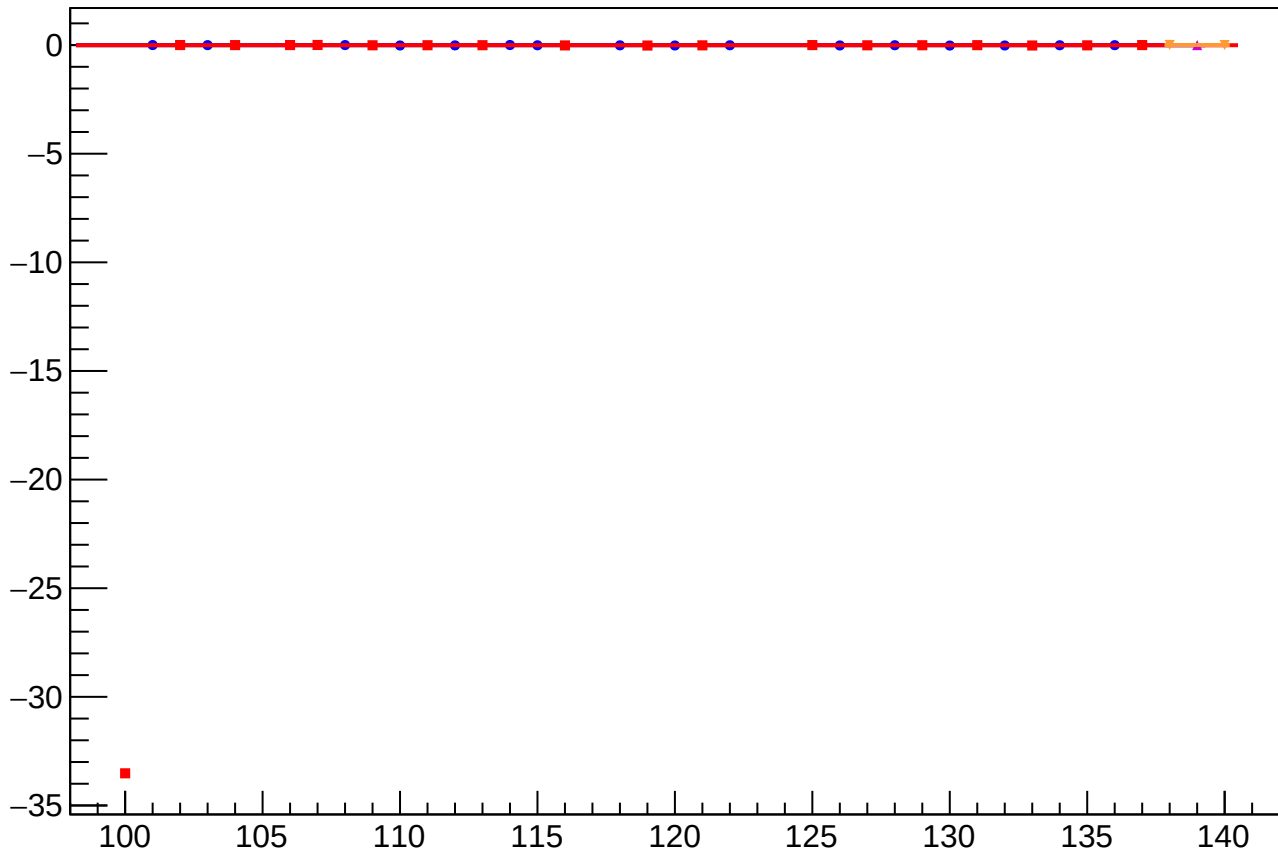
In: 0.014 $\pm$ 0.026  $\chi^2$ /NDF: 13.9/16

Out: 0.116 $\pm$ 0.026  $\chi^2$ /NDF: 8.4/19

All: 0.066 $\pm$ 0.019  $\chi^2$ /NDF: 29.9/36



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: 0.003 $\pm$ 0.003  $\chi^2$ /NDF:0.7/1

Right Out: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 26508.9/17

Left In: -0.001 $\pm$ 0.003  $\chi^2$ /NDF:0.0/0

Left: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.8/2

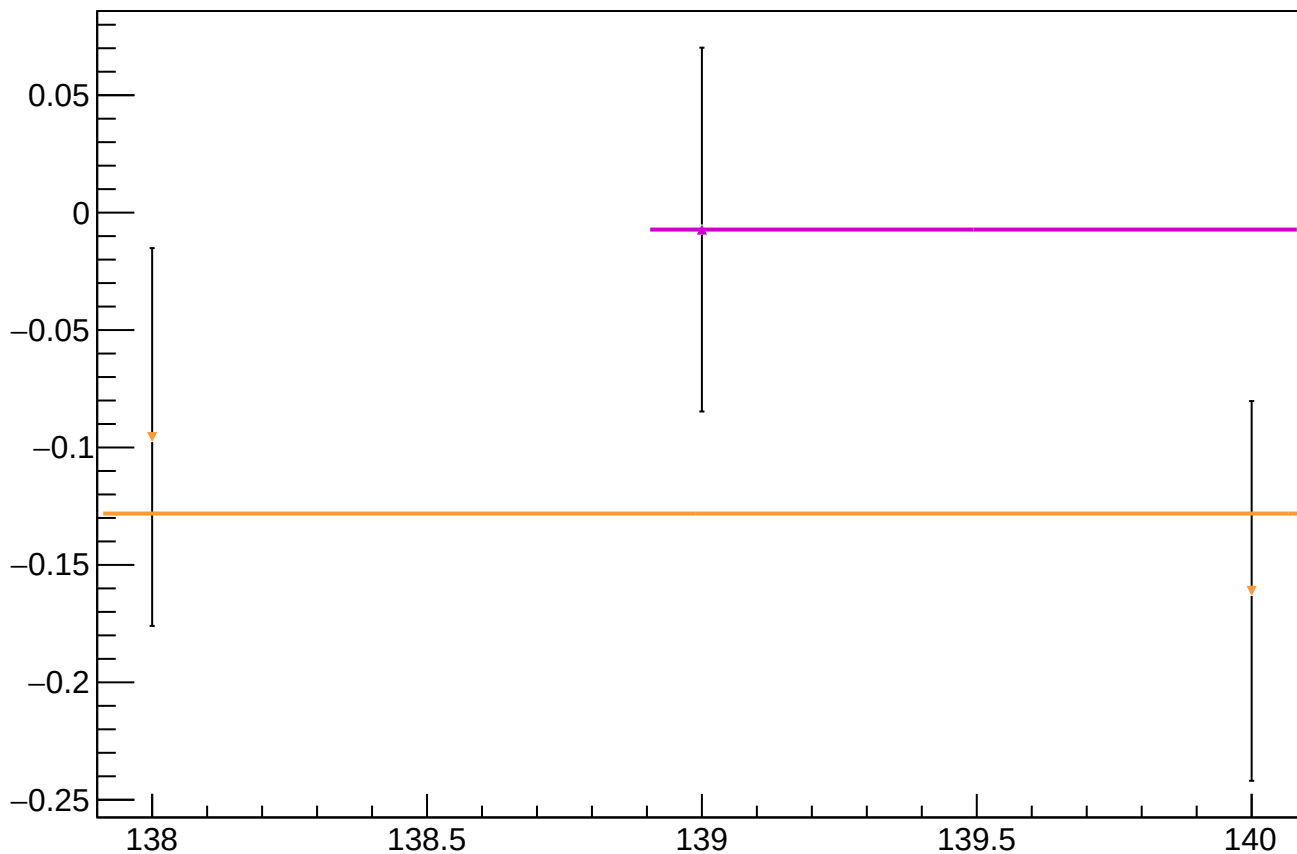
Right: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 26531.6/33

In: -0.005 $\pm$ 0.001  $\chi^2$ /NDF:24.4/16

Out: -0.004 $\pm$ 0.001  $\chi^2$ /NDF:26519.3/19

All: -0.004 $\pm$ 0.001  $\chi^2$ /NDF: 26544.0/36

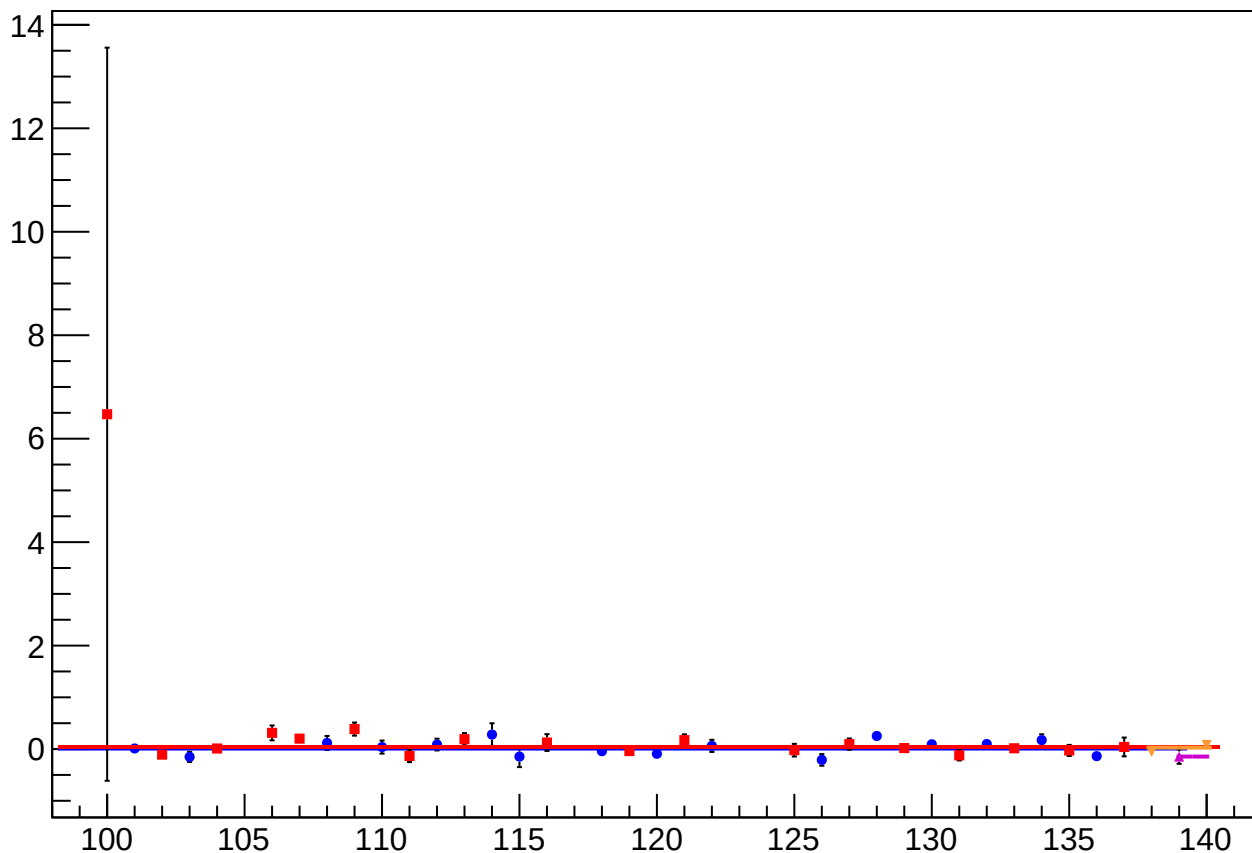
reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.128 $\pm$ 0.057  $\chi^2$ /NDF:0.3/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.007 $\pm$ 0.077  $\chi^2$ /NDF:0.0/0

Left: -0.086 $\pm$ 0.046  $\chi^2$ /NDF: 1.9/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.007 $\pm$ 0.077  $\chi^2$ /NDF:0.0/0  
 Out: -0.128 $\pm$ 0.057  $\chi^2$ /NDF:0.3/1  
 All: -0.086 $\pm$ 0.046  $\chi^2$ /NDF: 1.9/2

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.010+/-0.023  $\chi^2/\text{NDF}$ : 25.4/15

Left Out: 0.029+/-0.053  $\chi^2/\text{NDF}$ : 1.5/1

Right Out: 0.040+/-0.025  $\chi^2/\text{NDF}$ : 27.9/17

Left In: -0.145+/-0.140  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.007+/-0.049  $\chi^2/\text{NDF}$ : 2.9/2

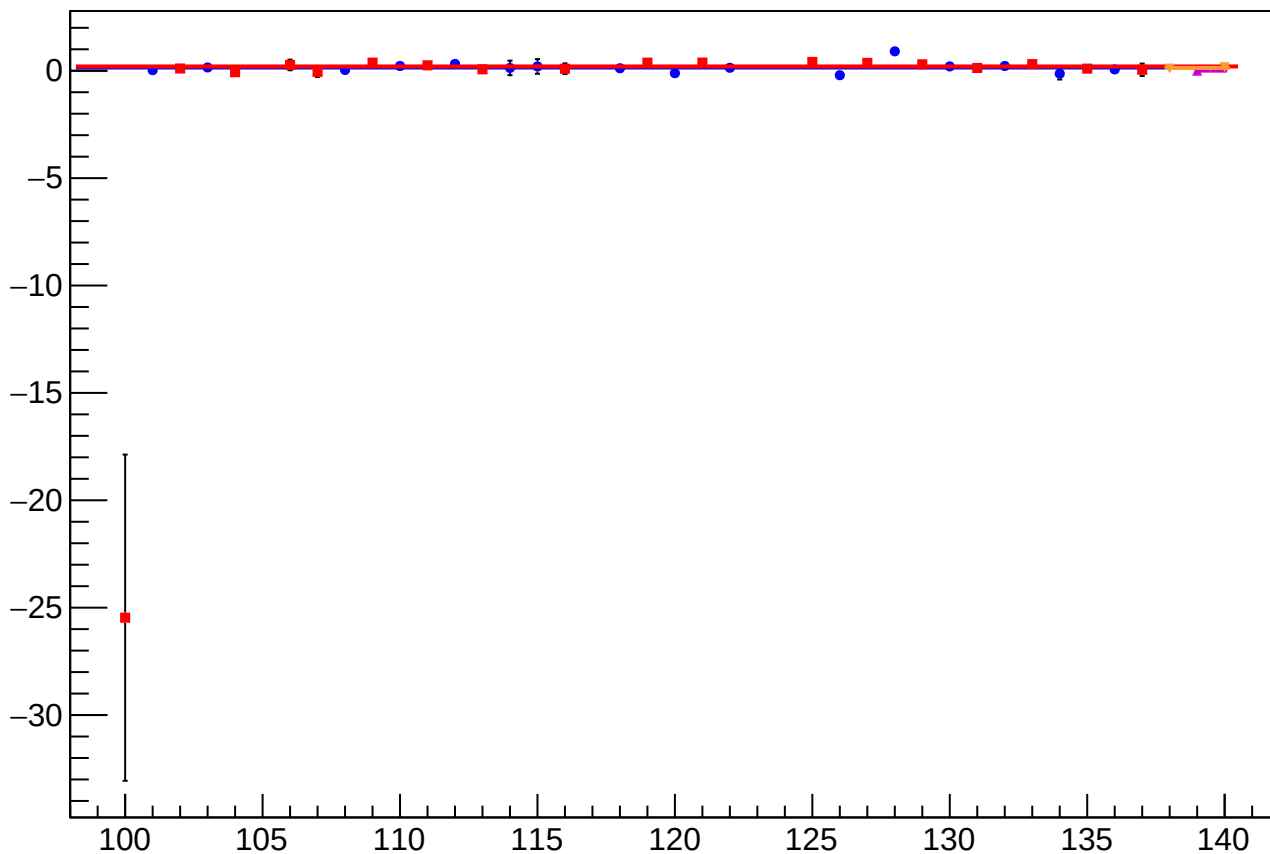
Right: 0.024+/-0.017  $\chi^2/\text{NDF}$ : 54.1/33

In: 0.006+/-0.023  $\chi^2/\text{NDF}$ : 26.6/16

Out: 0.038+/-0.022  $\chi^2/\text{NDF}$ : 29.5/19

All: 0.023+/-0.016  $\chi^2/\text{NDF}$ : 57.1/36

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: 0.131 $\pm$ 0.061  $\chi^2$ /NDF: 0.3/1

Right Out: 0.200 $\pm$ 0.045  $\chi^2$ /NDF: 22.9/17

Left In: 0.006 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Left: 0.088 $\pm$ 0.049  $\chi^2$ /NDF: 1.7/2

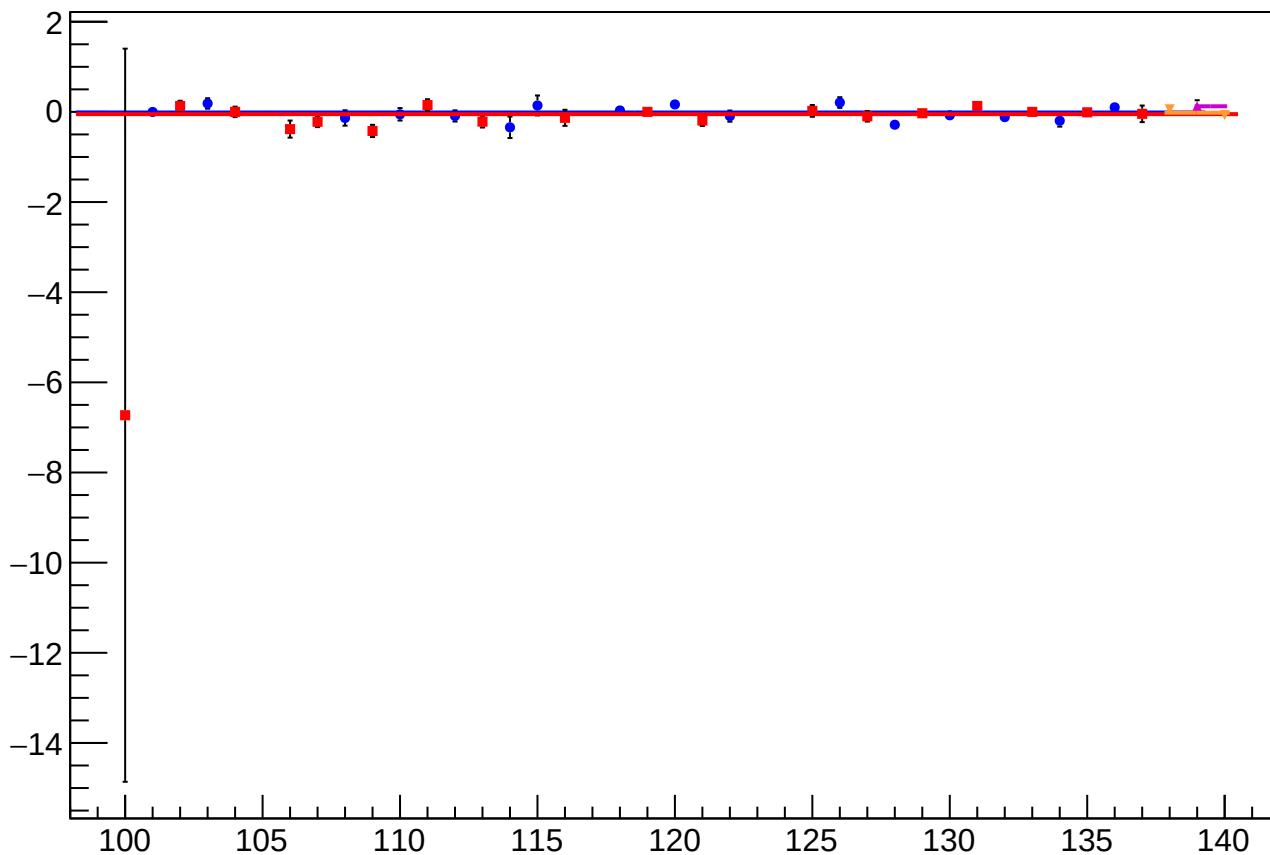
Right: 0.175 $\pm$ 0.031  $\chi^2$ /NDF: 52.2/33

In: 0.122 $\pm$ 0.038  $\chi^2$ /NDF: 31.1/16

Out: 0.176 $\pm$ 0.036  $\chi^2$ /NDF: 24.0/19

All: 0.150 $\pm$ 0.026  $\chi^2$ /NDF: 56.2/36

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:  $-0.018 \pm 0.062$   $\chi^2/\text{NDF}: 1.0/1$

Right Out:  $-0.050 \pm 0.029$   $\chi^2/\text{NDF}: 25.7/17$

Left In:  $0.124 \pm 0.135$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.006 \pm 0.056$   $\chi^2/\text{NDF}: 1.9/2$

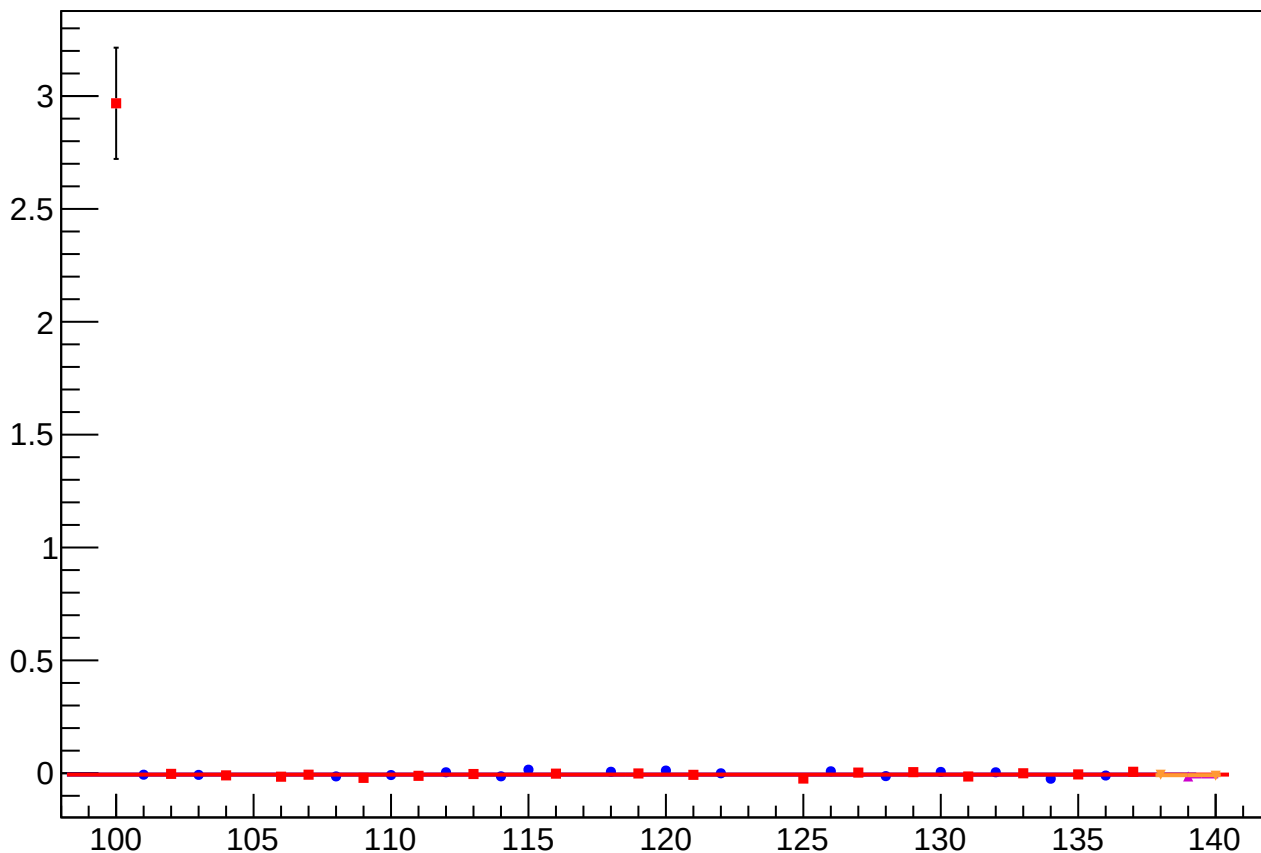
Right:  $-0.031 \pm 0.020$   $\chi^2/\text{NDF}: 51.8/33$

In:  $-0.008 \pm 0.026$   $\chi^2/\text{NDF}: 26.2/16$

Out:  $-0.044 \pm 0.026$   $\chi^2/\text{NDF}: 27.0/19$

All:  $-0.027 \pm 0.019$   $\chi^2/\text{NDF}: 54.1/36$

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.001  $\chi^2/\text{NDF}$ : 29.0/15

Left Out: -0.009+/-0.003  $\chi^2/\text{NDF}$ : 0.8/1

Right Out: -0.006+/-0.001  $\chi^2/\text{NDF}$ : 165.9/17

Left In: -0.014+/-0.003  $\chi^2/\text{NDF}$ : 0.0/0

Left: -0.011+/-0.002  $\chi^2/\text{NDF}$ : 2.9/2

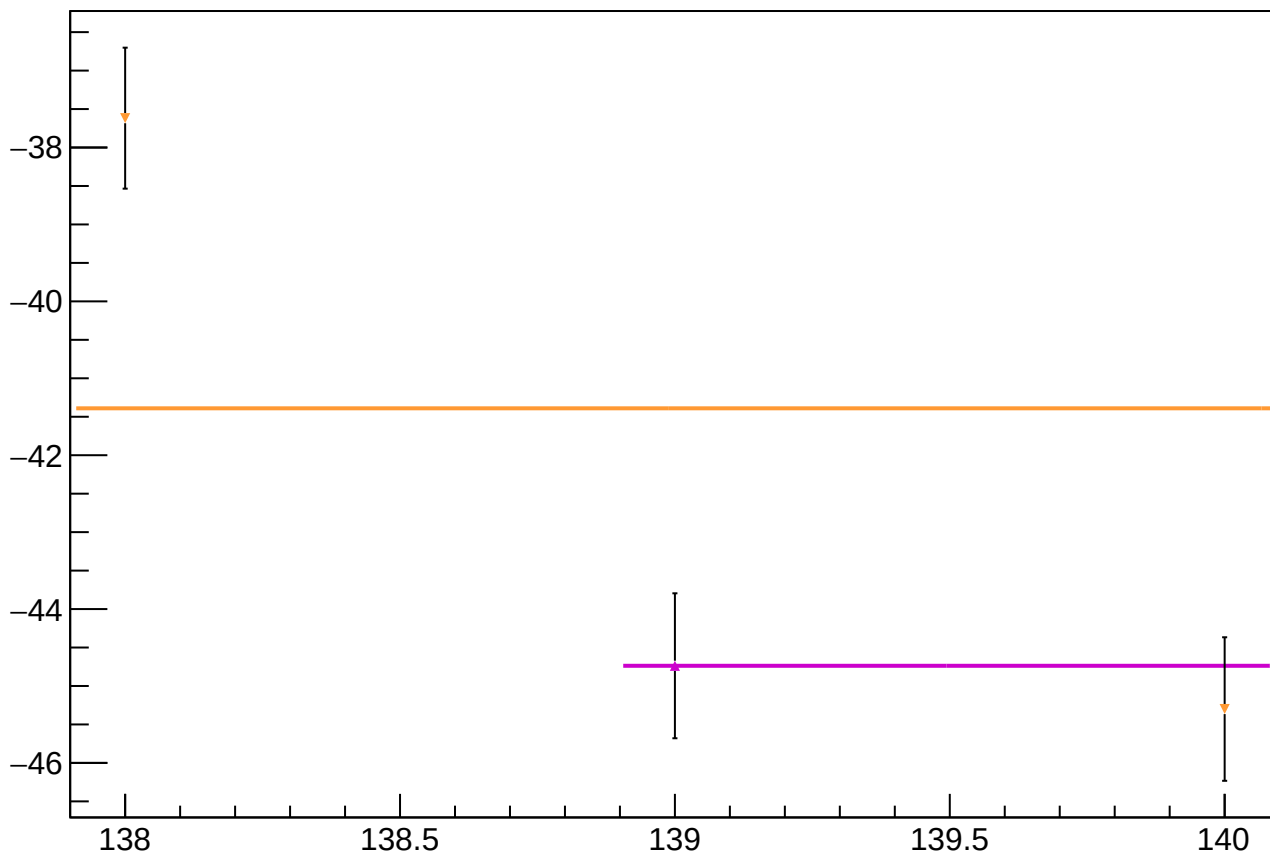
Right: -0.006+/-0.001  $\chi^2/\text{NDF}$ : 194.8/33

In: -0.008+/-0.001  $\chi^2/\text{NDF}$ : 35.3/16

Out: -0.007+/-0.001  $\chi^2/\text{NDF}$ : 167.5/19

All: -0.007+/-0.001  $\chi^2/\text{NDF}$ : 203.0/36

reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.390+/-0.654  $\chi^2/\text{NDF}$ : 34.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -44.737+/-0.942  $\chi^2/\text{NDF}$ : 0.0/0

Left: -42.478+/-0.537  $\chi^2/\text{NDF}$ : 43.0/2

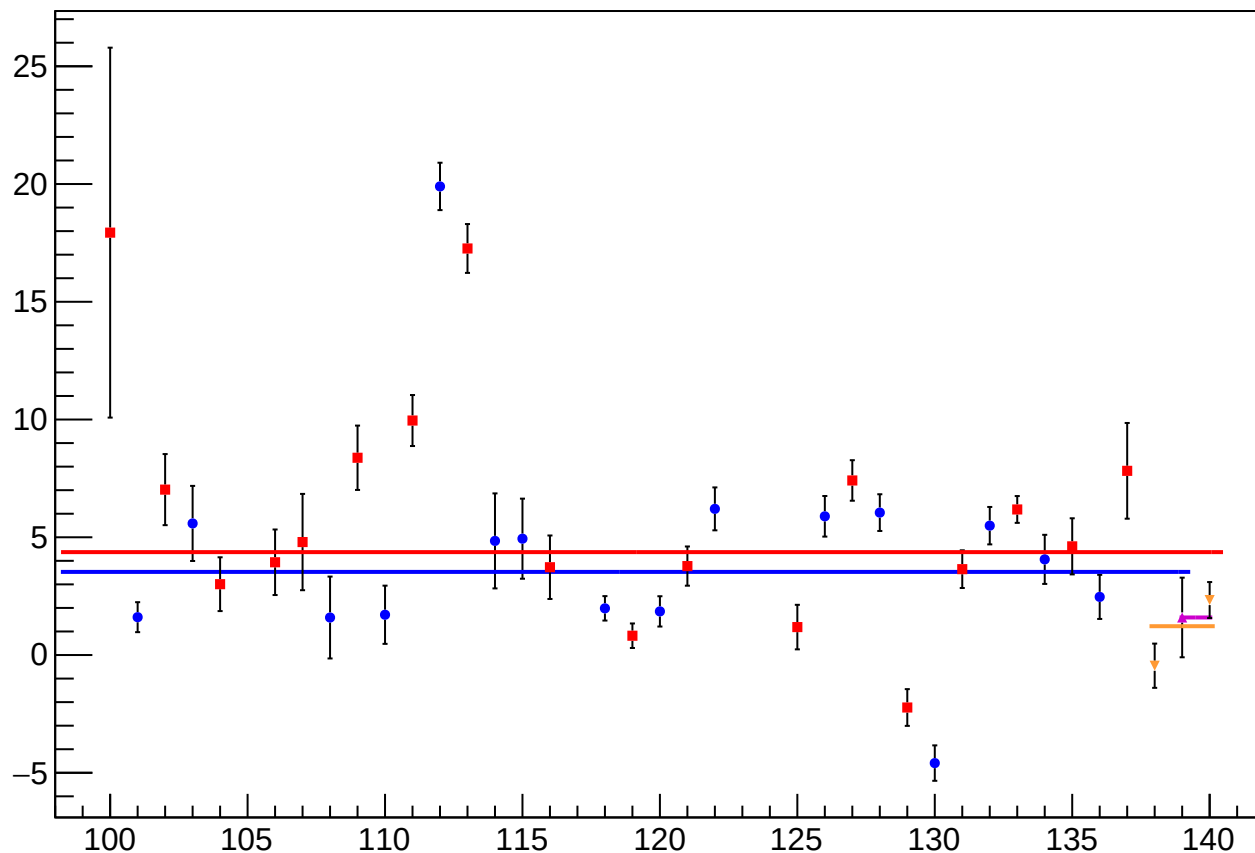
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -44.737+/-0.942  $\chi^2/\text{NDF}$ : 0.0/0

Out: -41.390+/-0.654  $\chi^2/\text{NDF}$ : 34.5/1

All: -42.478+/-0.537  $\chi^2/\text{NDF}$ : 43.0/2

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: 1.224 $\pm$ 0.593  $\chi^2$ /NDF:5.3/1

Right Out: 4.370 $\pm$ 0.225  $\chi^2$ /NDF: 353.8/17

Left In: 1.594 $\pm$ 1.690  $\chi^2$ /NDF:0.0/0

Left: 1.264 $\pm$ 0.559  $\chi^2$ /NDF: 5.3/2

Right: 3.934 $\pm$ 0.156  $\chi^2$ /NDF: 807.6/33

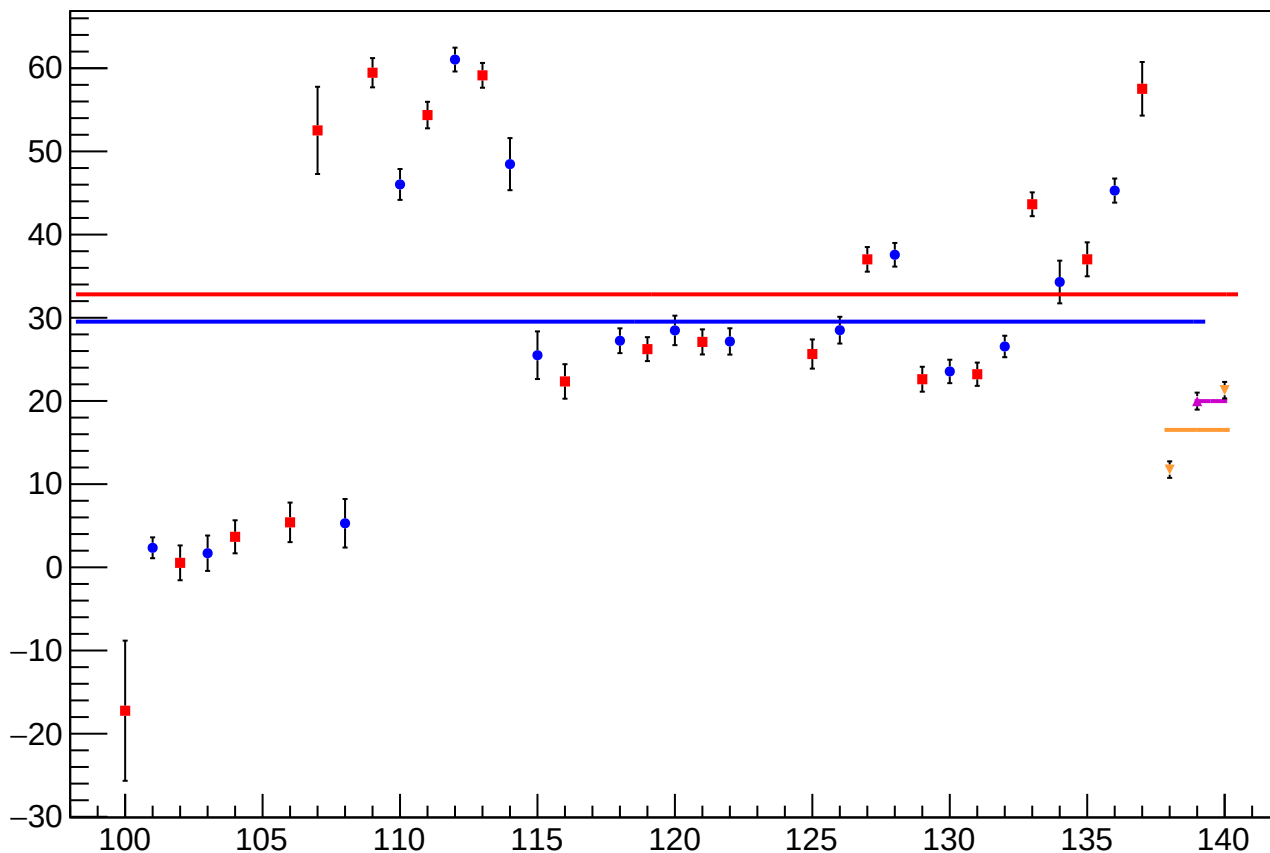
In: 3.498 $\pm$ 0.216  $\chi^2$ /NDF:447.9/16

Out: 3.972 $\pm$ 0.211  $\chi^2$ /NDF:383.7/19

All: 3.741 $\pm$ 0.151  $\chi^2$ /NDF: 834.1/36



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: 16.523+/-0.703  $\chi^2/\text{NDF}$ : 46.2/1

Right Out: 32.816+/-0.423  $\chi^2/\text{NDF}$ : 1659.3/17

Left In: 19.981+/-1.021  $\chi^2/\text{NDF}$ : 0.0/0

Left: 17.634+/-0.579  $\chi^2/\text{NDF}$ : 54.0/2

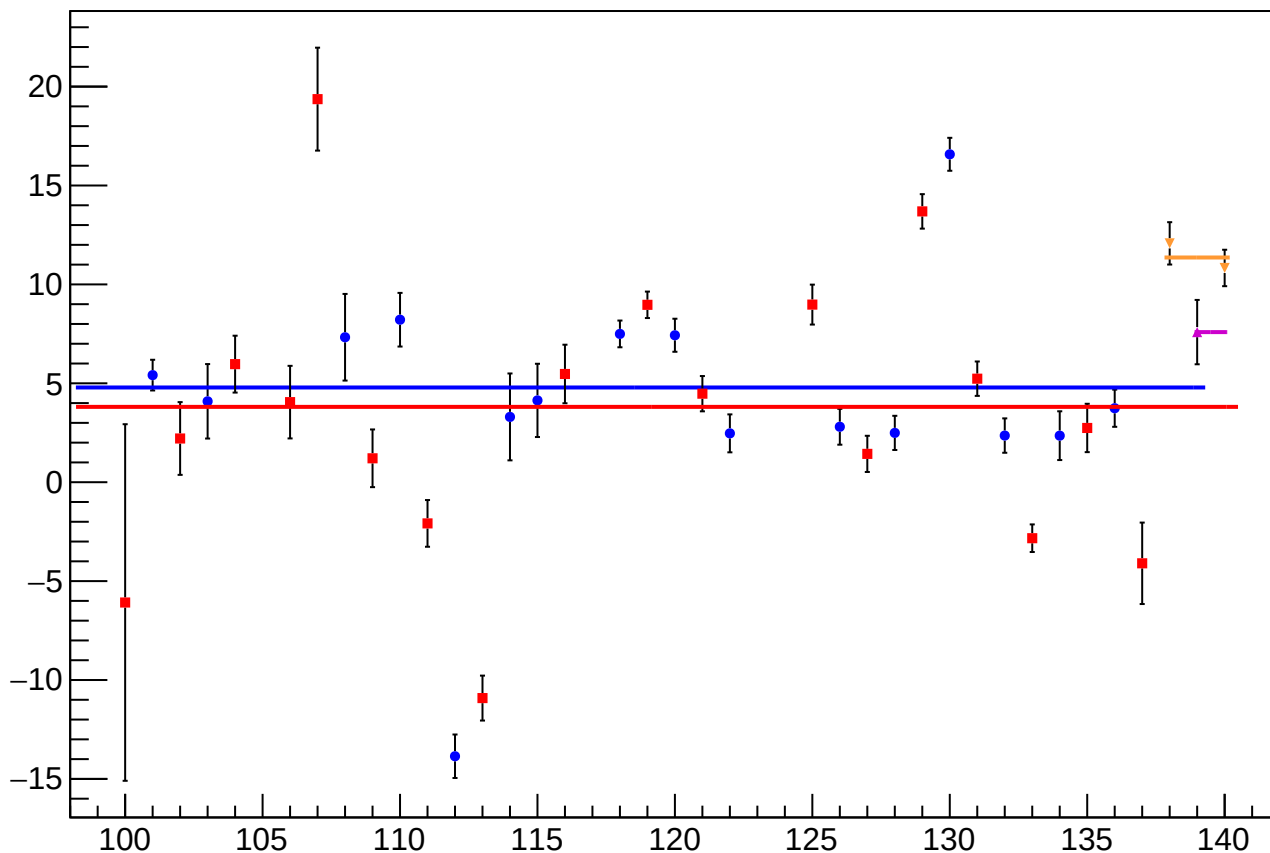
Right: 31.152+/-0.297  $\chi^2/\text{NDF}$ : 3184.7/33

In: 28.171+/-0.386  $\chi^2/\text{NDF}$ : 1569.9/16

Out: 28.483+/-0.362  $\chi^2/\text{NDF}$ : 2100.3/19

All: 28.337+/-0.264  $\chi^2/\text{NDF}$ : 3670.6/36

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.789 $\pm$ 0.251  $\chi^2$ /NDF: 553.9/15

Left Out: 11.360 $\pm$ 0.698  $\chi^2$ /NDF:0.8/1

Right Out: 3.809 $\pm$ 0.259  $\chi^2$ /NDF: 567.6/17

Left In: 7.588 $\pm$ 1.627  $\chi^2$ /NDF:0.0/0

Left: 10.773 $\pm$ 0.642  $\chi^2$ /NDF: 5.3/2

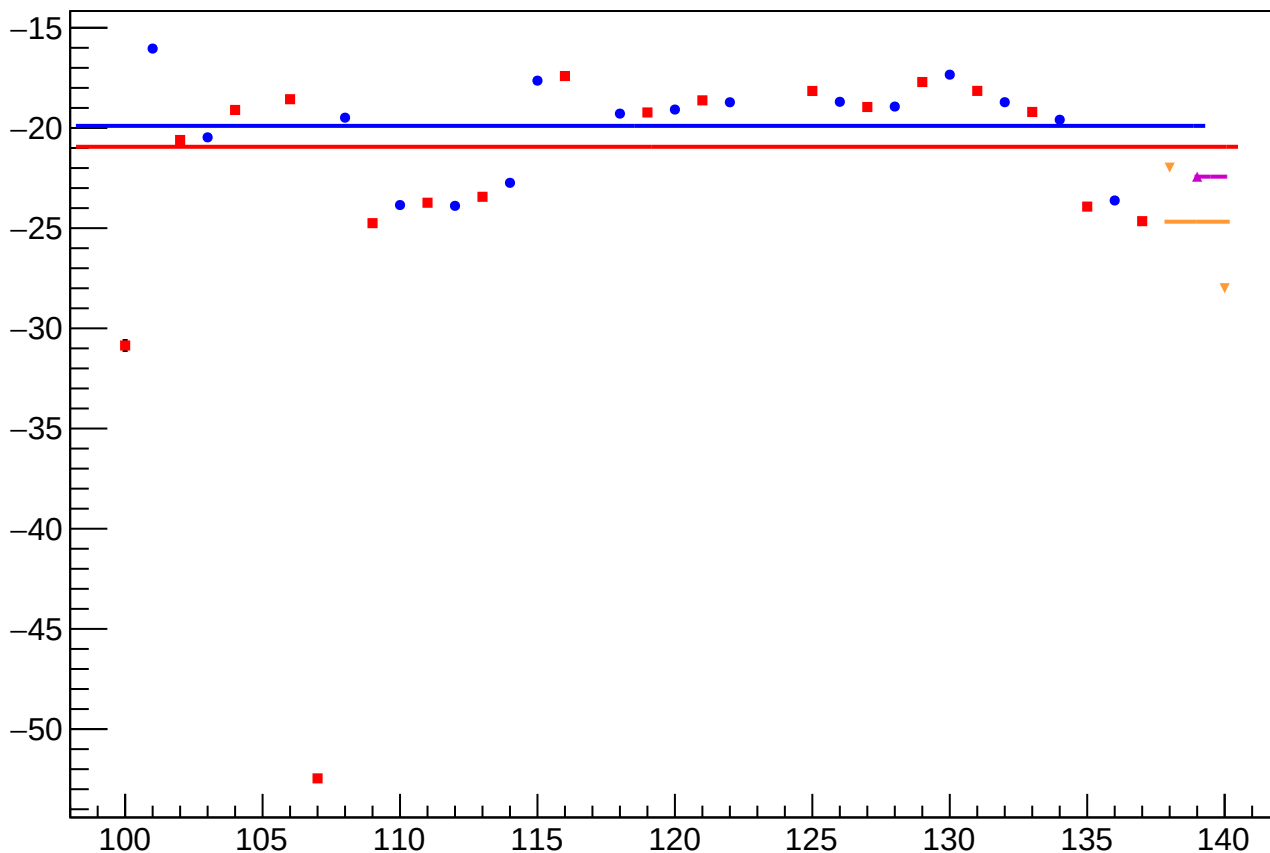
Right: 4.313 $\pm$ 0.180  $\chi^2$ /NDF: 1128.9/33

In: 4.854 $\pm$ 0.248  $\chi^2$ /NDF:556.8/16

Out: 4.721 $\pm$ 0.243  $\chi^2$ /NDF:671.2/19

All: 4.786 $\pm$ 0.174  $\chi^2$ /NDF: 1228.2/36

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -19.895+/-0.016  $\chi^2/\text{NDF}$ : 26073.6/15

Left Out: -24.677+/-0.029  $\chi^2/\text{NDF}$ : 10615.1/1

Right Out: -20.938+/-0.016  $\chi^2/\text{NDF}$ : 94065.2/17

Left In: -22.430+/-0.036  $\chi^2/\text{NDF}$ : 0.0/0

Left: -23.785+/-0.023  $\chi^2/\text{NDF}$ : 12993.8/2

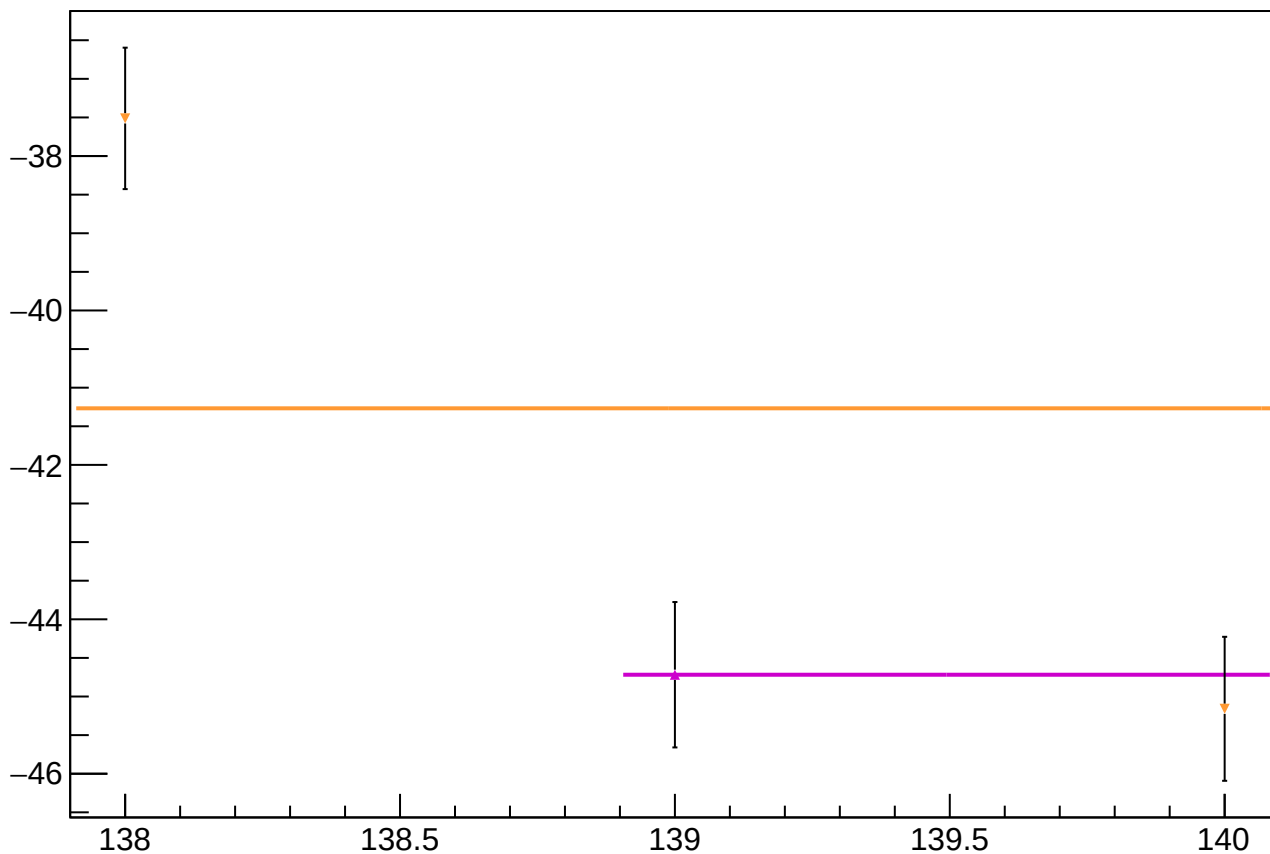
Right: -20.412+/-0.011  $\chi^2/\text{NDF}$ : 122364.1/33

In: -20.299+/-0.014  $\chi^2/\text{NDF}$ : 30295.8/16

Out: -21.785+/-0.014  $\chi^2/\text{NDF}$ : 117503.2/19

All: -21.066+/-0.010  $\chi^2/\text{NDF}$ : 153394.0/36

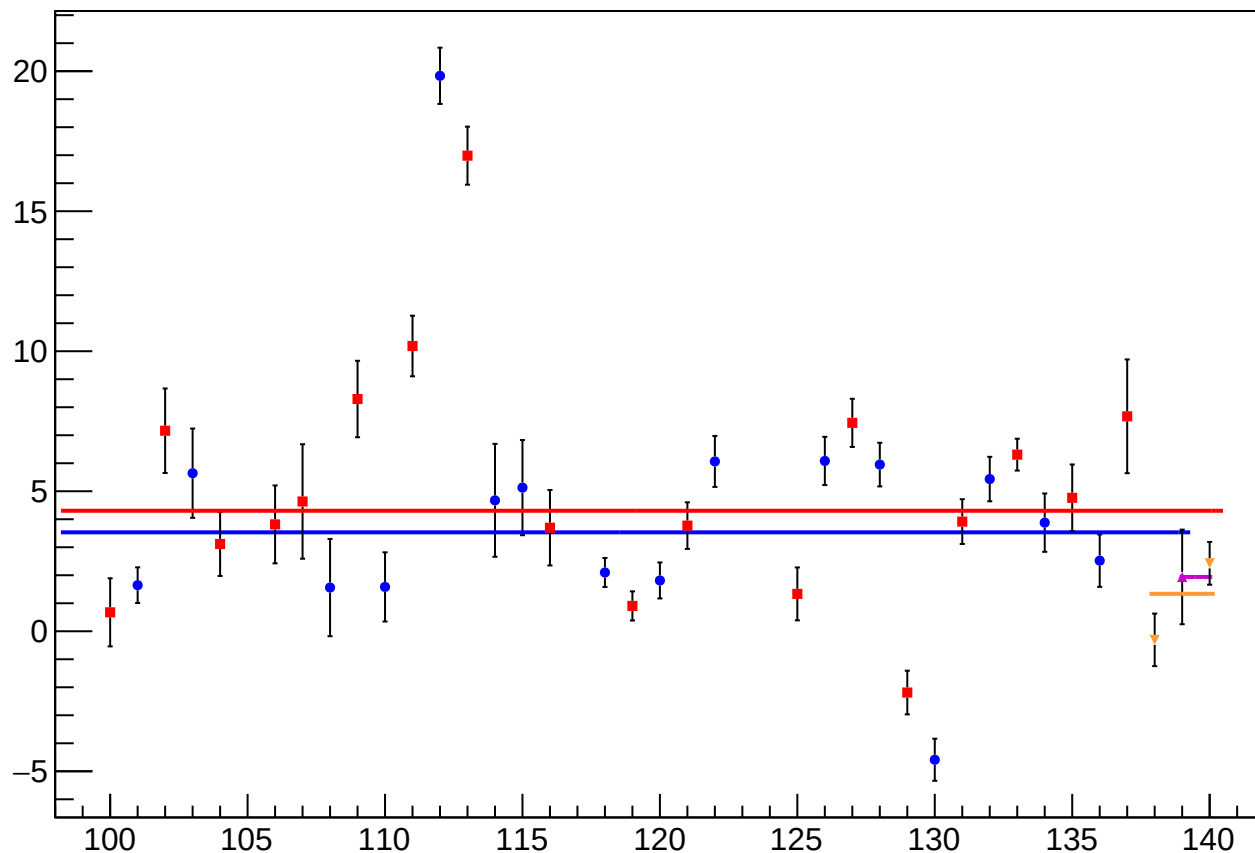
reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -41.267 $\pm$ 0.653  $\chi^2$ /NDF:34.2/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -44.718 $\pm$ 0.942  $\chi^2$ /NDF:0.0/0

Left: -42.389 $\pm$ 0.537  $\chi^2$ /NDF: 43.3/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -44.718 $\pm$ 0.942  $\chi^2$ /NDF:0.0/0  
 Out: -41.267 $\pm$ 0.653  $\chi^2$ /NDF:34.2/1  
 All: -42.389 $\pm$ 0.537  $\chi^2$ /NDF: 43.3/2

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:  $1.337 \pm 0.592$   $\chi^2/\text{NDF}: 5.1/1$

Right Out:  $4.303 \pm 0.222$   $\chi^2/\text{NDF}: 352.8/17$

Left In:  $1.940 \pm 1.689$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $1.403 \pm 0.559$   $\chi^2/\text{NDF}: 5.2/2$

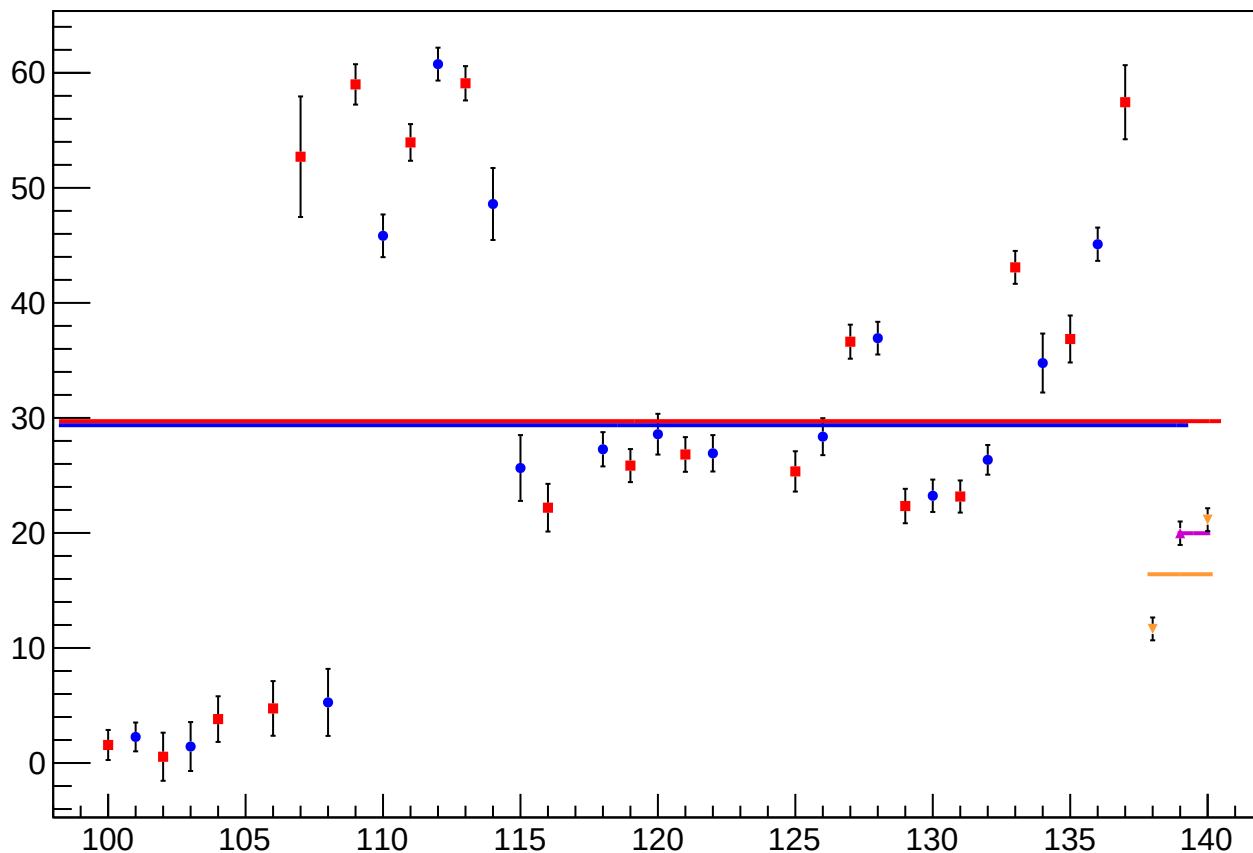
Right:  $3.910 \pm 0.155$   $\chi^2/\text{NDF}: 802.2/33$

In:  $3.507 \pm 0.215$   $\chi^2/\text{NDF}: 444.1/16$

Out:  $3.939 \pm 0.208$   $\chi^2/\text{NDF}: 379.9/19$

All:  $3.731 \pm 0.149$   $\chi^2/\text{NDF}: 826.1/36$

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: 16.409 $\pm$ 0.702  $\chi^2$ /NDF:45.7/1

Right Out: 29.719 $\pm$ 0.402  $\chi^2$ /NDF: 2129.5/17

Left In: 19.976 $\pm$ 1.020  $\chi^2$ /NDF:0.0/0

Left: 17.555 $\pm$ 0.578  $\chi^2$ /NDF: 54.0/2

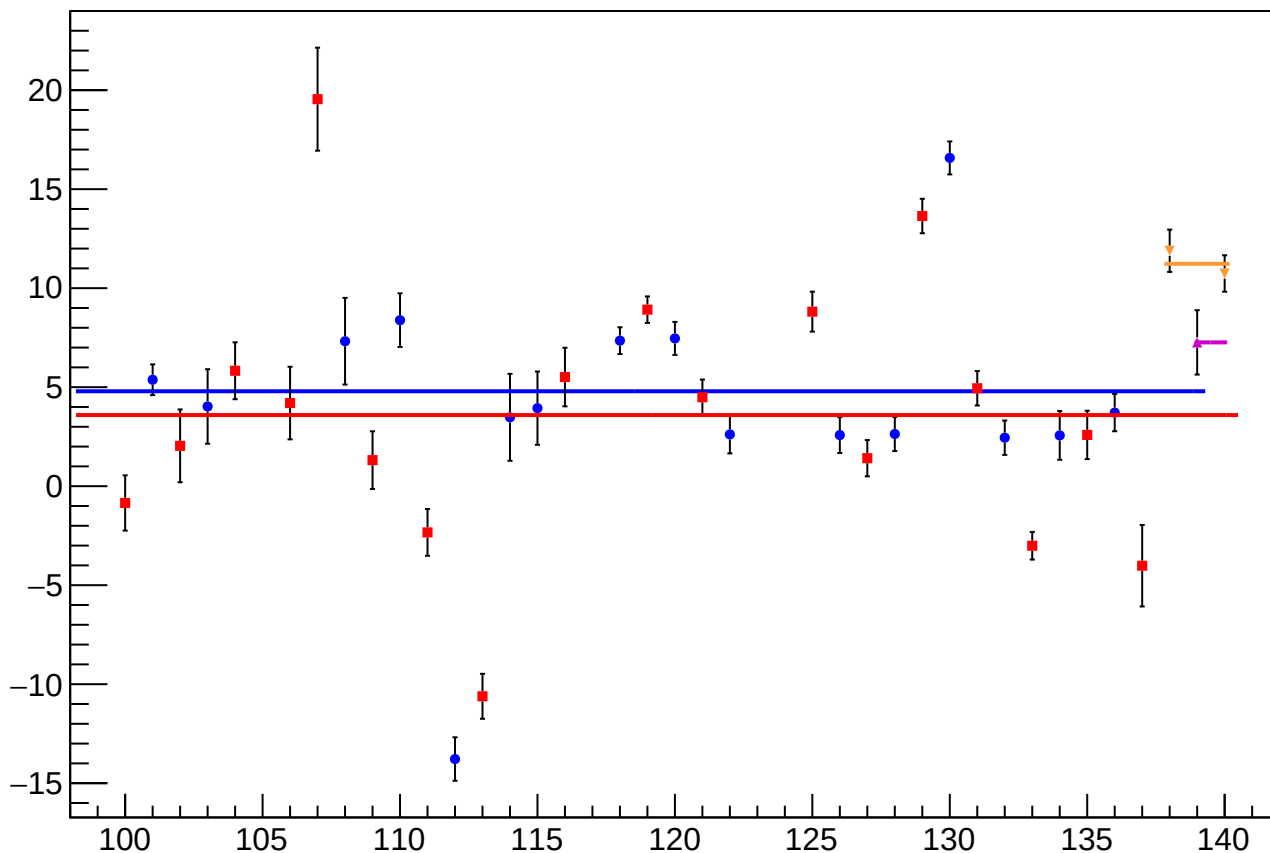
Right: 29.549 $\pm$ 0.289  $\chi^2$ /NDF: 3618.6/33

In: 28.026 $\pm$ 0.386  $\chi^2$ /NDF:1561.3/16

Out: 26.427 $\pm$ 0.349  $\chi^2$ /NDF:2445.7/19

All: 27.147 $\pm$ 0.259  $\chi^2$ /NDF: 4016.5/36

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.794 $\pm$ 0.251  $\chi^2$ /NDF: 550.0/15

Left Out: 11.230 $\pm$ 0.698  $\chi^2$ /NDF:0.7/1

Right Out: 3.591 $\pm$ 0.254  $\chi^2$ /NDF: 573.3/17

Left In: 7.262 $\pm$ 1.625  $\chi^2$ /NDF:0.0/0

Left: 10.612 $\pm$ 0.641  $\chi^2$ /NDF: 5.7/2

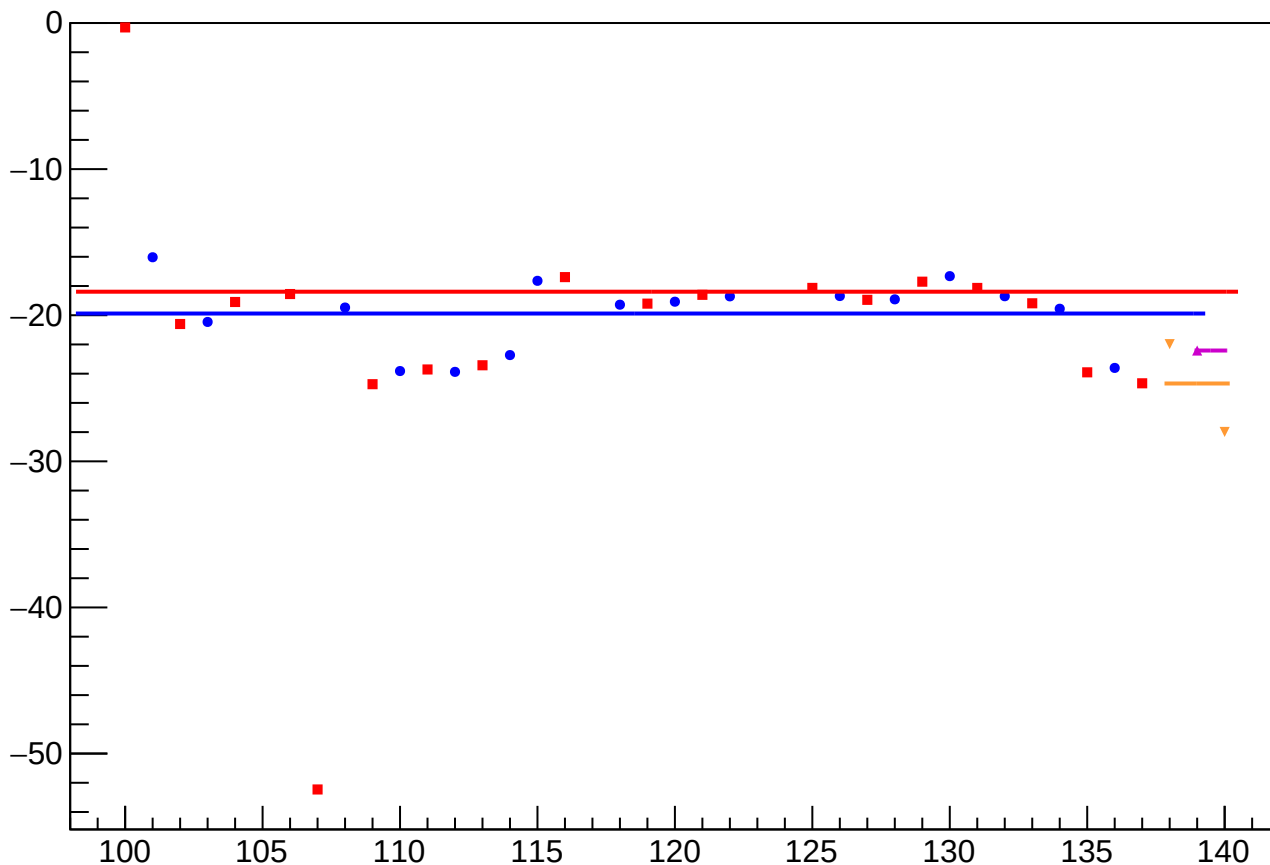
Right: 4.201 $\pm$ 0.179  $\chi^2$ /NDF: 1134.6/33

In: 4.851 $\pm$ 0.248  $\chi^2$ /NDF:552.2/16

Out: 4.488 $\pm$ 0.239  $\chi^2$ /NDF:679.8/19

All: 4.663 $\pm$ 0.172  $\chi^2$ /NDF: 1233.1/36

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:  $-24.673 \pm 0.029$   $\chi^2/\text{NDF}: 10600.7/1$

Right Out:  $-18.390 \pm 0.015$   $\chi^2/\text{NDF}: 301247.7/17$

Left In:  $-22.416 \pm 0.036$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-23.776 \pm 0.023$   $\chi^2/\text{NDF}: 13002.9/2$

Right:  $-19.096 \pm 0.011$   $\chi^2/\text{NDF}: 332167.8/33$

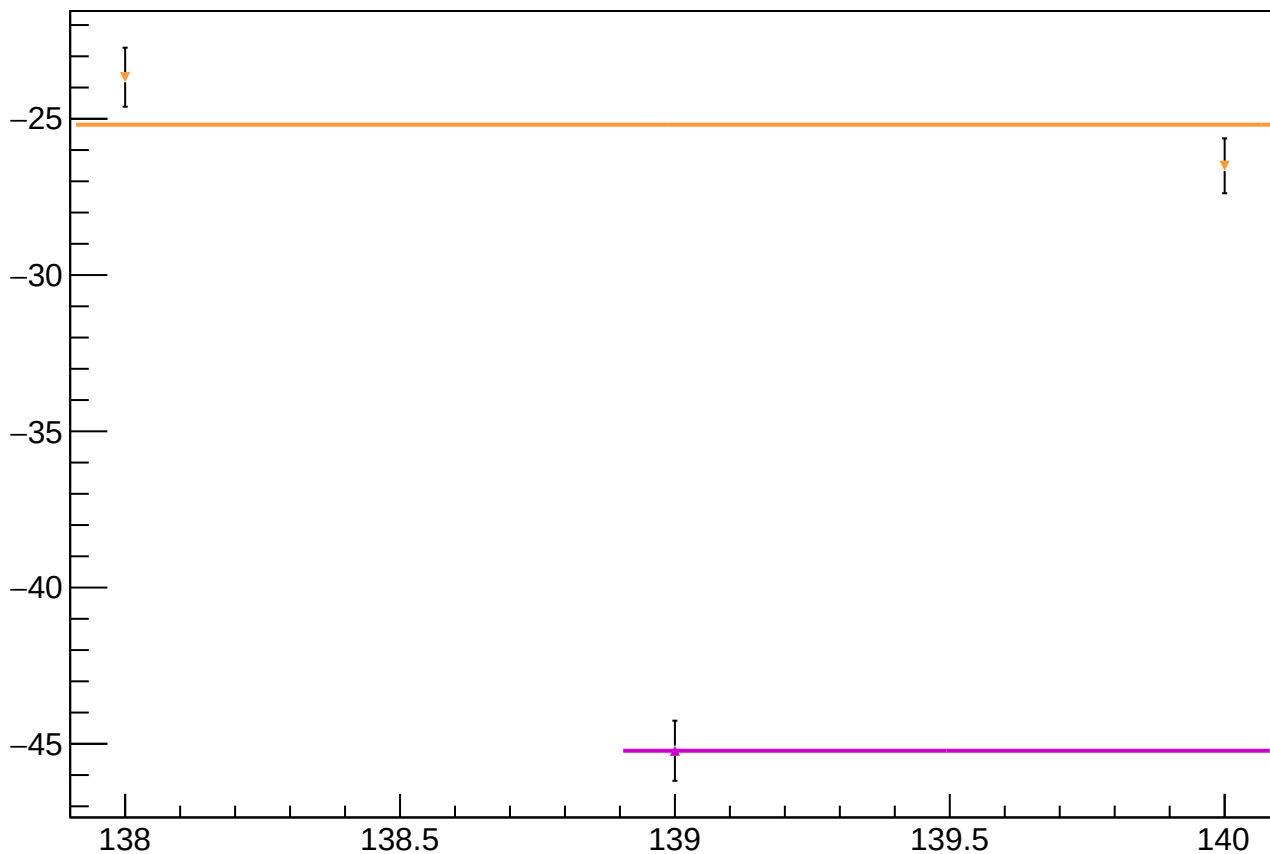
In:  $-20.287 \pm 0.014$   $\chi^2/\text{NDF}: 30283.5/16$

Out:  $-19.678 \pm 0.013$   $\chi^2/\text{NDF}: 349100.7/19$

All:  $-19.957 \pm 0.010$   $\chi^2/\text{NDF}: 380369.6/36$



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: -25.189+/-0.643  $\chi^2/\text{NDF}$ : 4.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -45.222+/-0.962  $\chi^2/\text{NDF}$ : 0.0/0

Left: -31.378+/-0.535  $\chi^2/\text{NDF}$ : 304.6/2

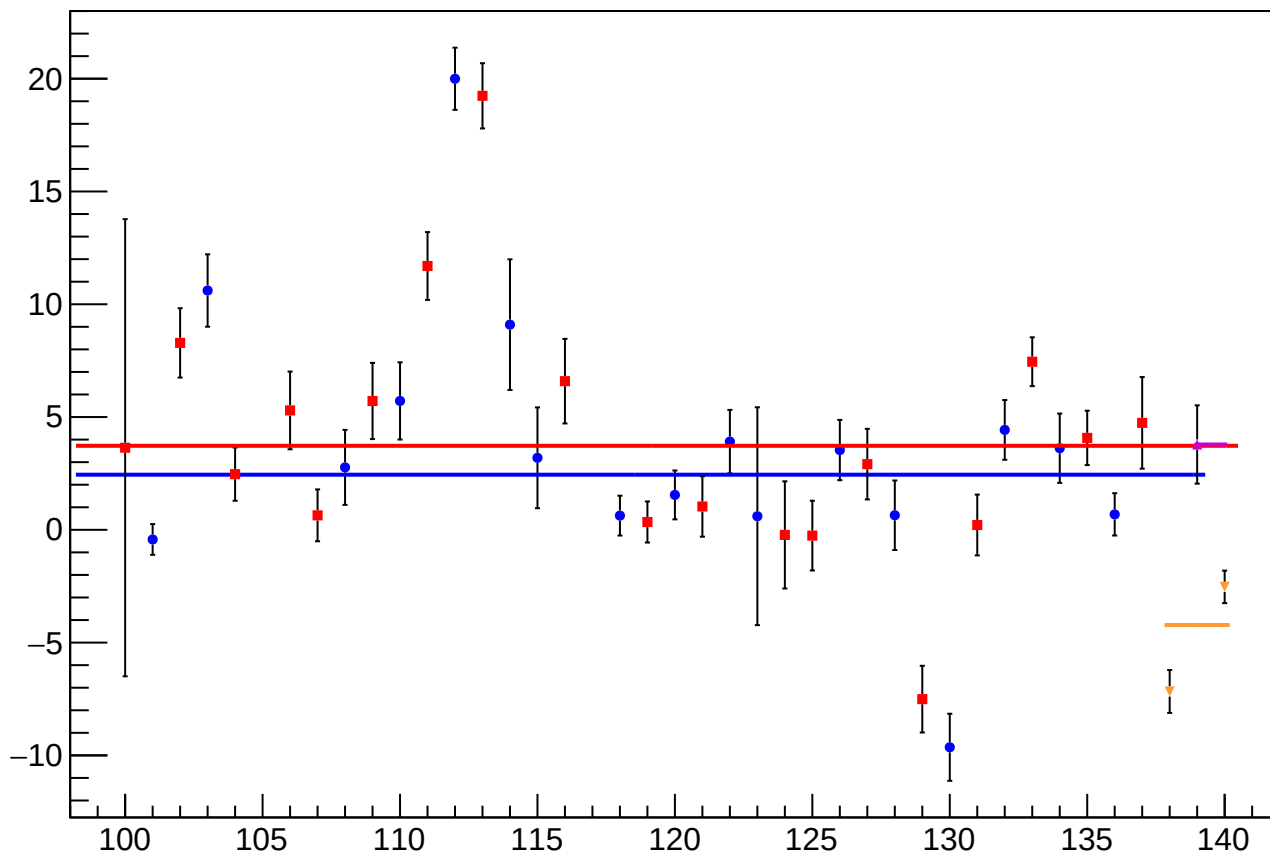
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -45.222+/-0.962  $\chi^2/\text{NDF}$ : 0.0/0

Out: -25.189+/-0.643  $\chi^2/\text{NDF}$ : 4.8/1

All: -31.378+/-0.535  $\chi^2/\text{NDF}$ : 304.6/2

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:  $-4.221 \pm 0.574$   $\chi^2/\text{NDF}: 15.1/1$

Right Out:  $3.726 \pm 0.327$   $\chi^2/\text{NDF}: 269.1/18$

Left In:  $3.783 \pm 1.736$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-3.432 \pm 0.545$   $\chi^2/\text{NDF}: 34.3/2$

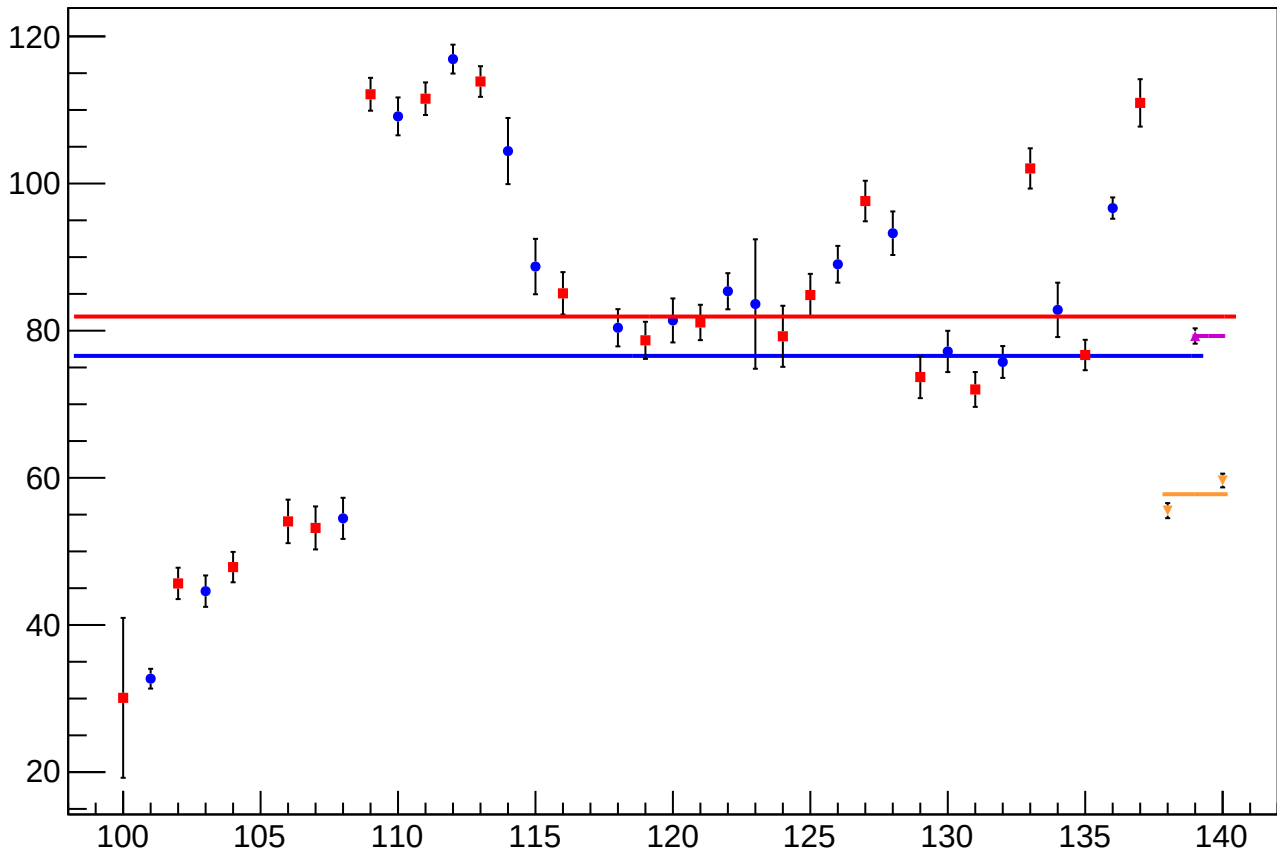
Right:  $3.053 \pm 0.225$   $\chi^2/\text{NDF}: 572.5/35$

In:  $2.485 \pm 0.306$   $\chi^2/\text{NDF}: 295.9/17$

Out:  $1.781 \pm 0.284$   $\chi^2/\text{NDF}: 428.9/20$

All:  $2.107 \pm 0.208$   $\chi^2/\text{NDF}: 727.7/38$

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: 57.773 $\pm$ 0.691  $\chi^2$ /NDF:8.7/1

Right Out: 81.923 $\pm$ 0.592  $\chi^2$ /NDF: 1570.6/18

Left In: 79.277 $\pm$ 1.041  $\chi^2$ /NDF:0.0/0

Left: 64.342 $\pm$ 0.575  $\chi^2$ /NDF: 305.0/2

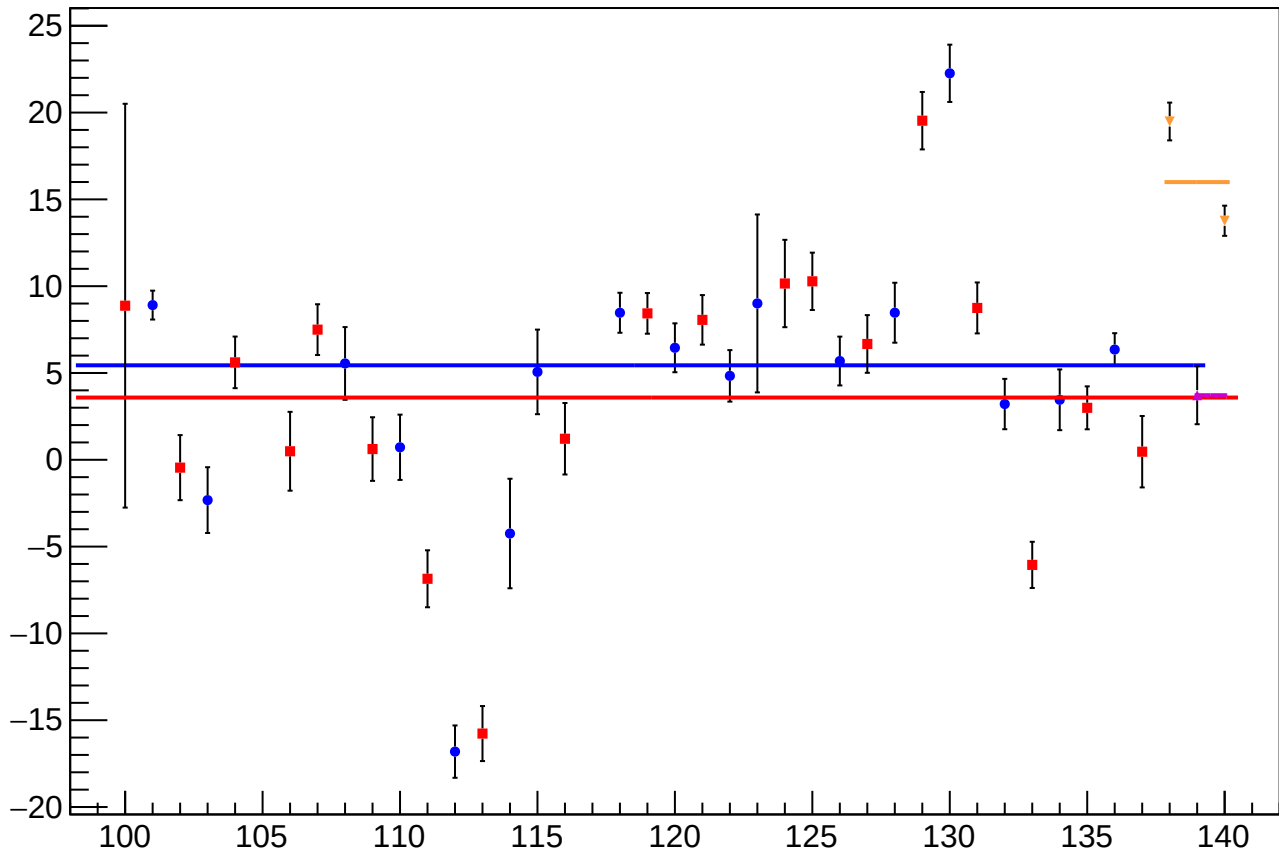
Right: 79.162 $\pm$ 0.412  $\chi^2$ /NDF: 3866.3/35

In: 77.202 $\pm$ 0.502  $\chi^2$ /NDF:2258.8/17

Out: 71.694 $\pm$ 0.449  $\chi^2$ /NDF:2284.4/20

All: 74.143 $\pm$ 0.335  $\chi^2$ /NDF: 4610.0/38

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.442+/-0.357  $\chi^2/\text{NDF}$ : 387.5/16

Left Out: 15.995+/-0.679  $\chi^2/\text{NDF}$ :16.9/1

Right Out: 3.585+/-0.375  $\chi^2/\text{NDF}$ : 423.2/18

Left In: 3.720+/-1.672  $\chi^2/\text{NDF}$ :0.0/0

Left: 14.257+/-0.629  $\chi^2/\text{NDF}$ : 63.1/2

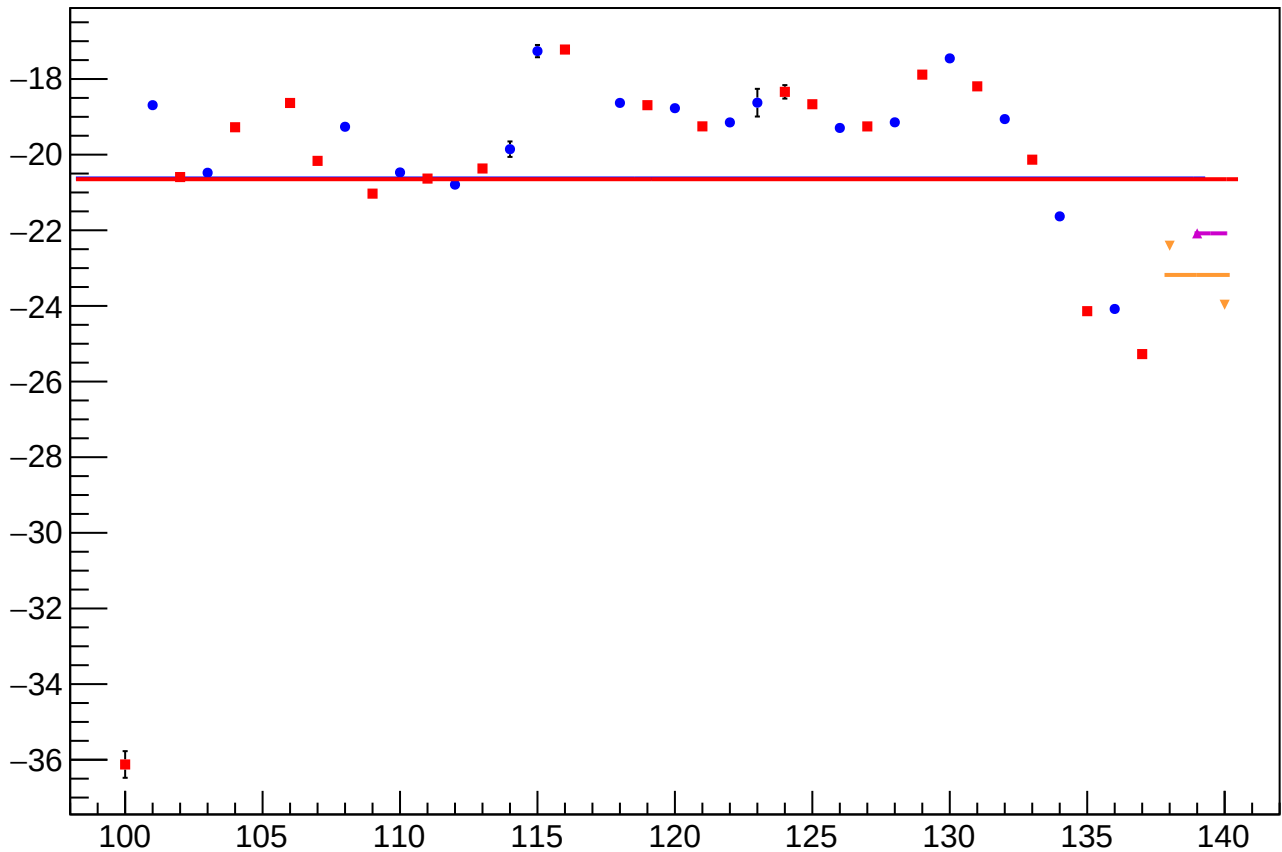
Right: 4.559+/-0.259  $\chi^2/\text{NDF}$ : 823.5/35

In: 5.367+/-0.349  $\chi^2/\text{NDF}$ :388.5/17

Out: 6.489+/-0.328  $\chi^2/\text{NDF}$ :696.0/20

All: 5.963+/-0.239  $\chi^2/\text{NDF}$ : 1090.0/38

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.630+/-0.019  $\chi^2/\text{NDF}$ : 12490.5/16

Left Out: -23.181+/-0.029  $\chi^2/\text{NDF}$ : 736.8/1

Right Out: -20.650+/-0.019  $\chi^2/\text{NDF}$ : 13885.7/18

Left In: -22.081+/-0.037  $\chi^2/\text{NDF}$ : 0.0/0

Left: -22.763+/-0.023  $\chi^2/\text{NDF}$ : 1292.3/2

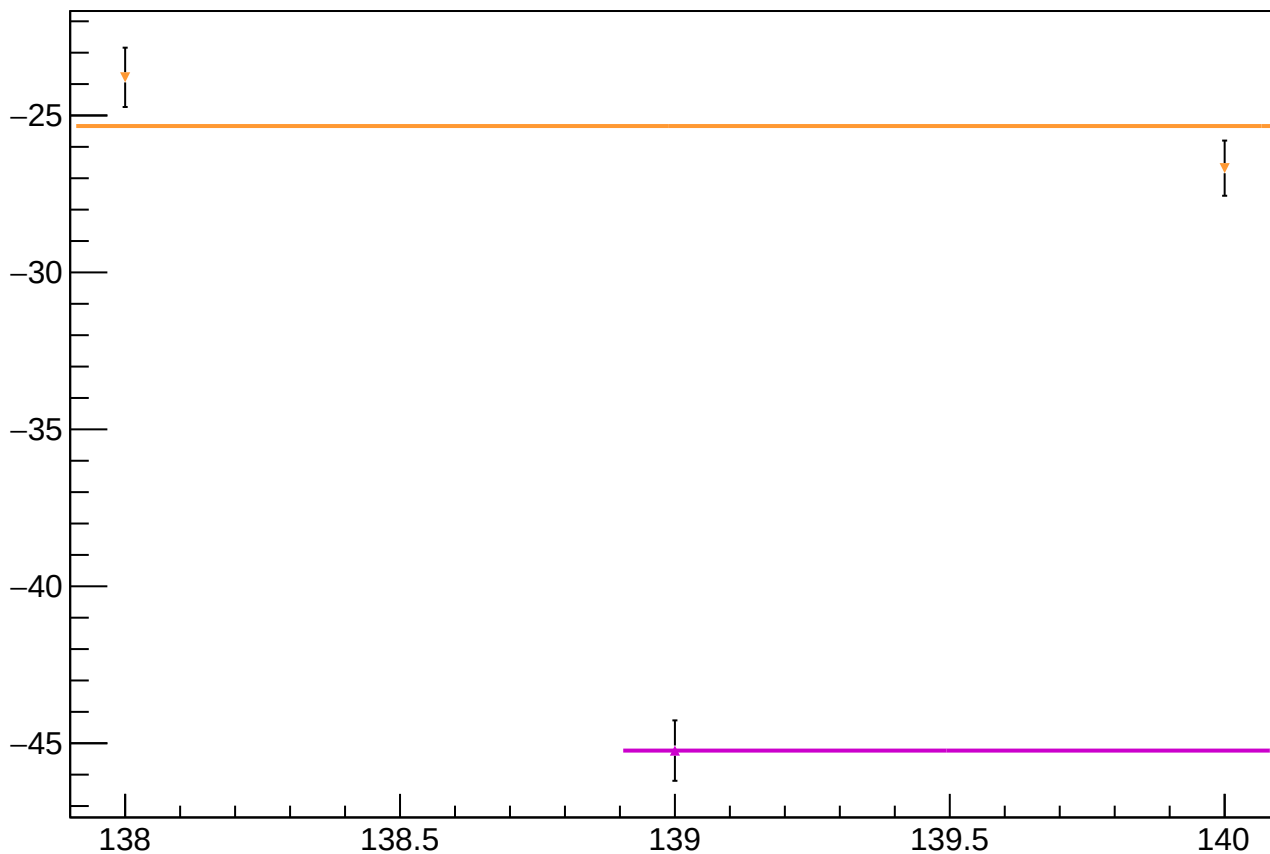
Right: -20.640+/-0.014  $\chi^2/\text{NDF}$ : 26376.6/35

In: -20.944+/-0.017  $\chi^2/\text{NDF}$ : 13713.7/17

Out: -21.443+/-0.016  $\chi^2/\text{NDF}$ : 19943.7/20

All: -21.208+/-0.012  $\chi^2/\text{NDF}$ : 34110.7/38

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: -25.337+/-0.644  $\chi^2/\text{NDF}$ : 5.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -45.234+/-0.962  $\chi^2/\text{NDF}$ : 0.0/0

Left: -31.485+/-0.535  $\chi^2/\text{NDF}$ : 300.3/2

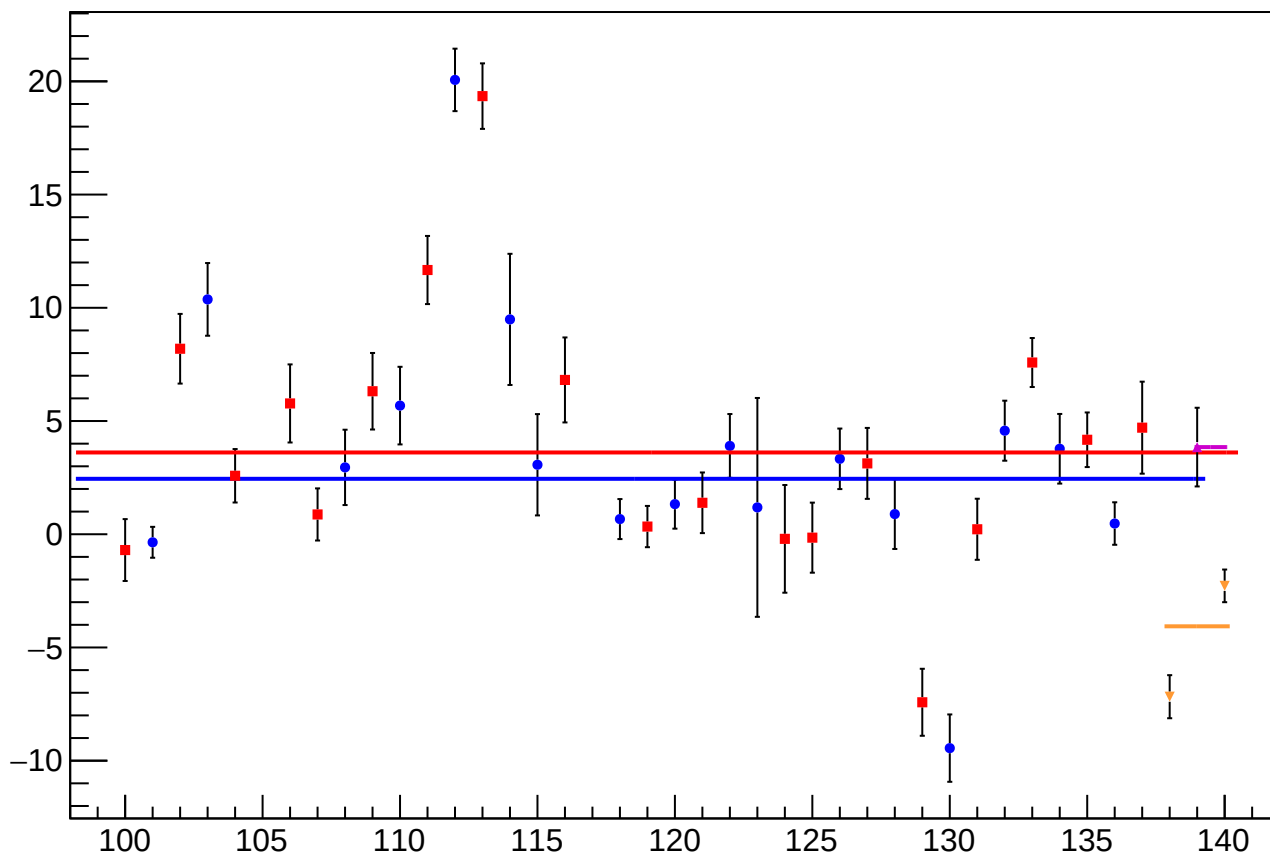
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -45.234+/-0.962  $\chi^2/\text{NDF}$ : 0.0/0

Out: -25.337+/-0.644  $\chi^2/\text{NDF}$ : 5.0/1

All: -31.485+/-0.535  $\chi^2/\text{NDF}$ : 300.3/2

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.448+/-0.311  $\chi^2/\text{NDF}$ : 293.4/16

Left Out: -4.066+/-0.575  $\chi^2/\text{NDF}$ : 16.8/1

Right Out: 3.611+/-0.318  $\chi^2/\text{NDF}$ : 279.4/18

Left In: 3.848+/-1.737  $\chi^2/\text{NDF}$ : 0.0/0

Left: -3.286+/-0.545  $\chi^2/\text{NDF}$ : 35.5/2

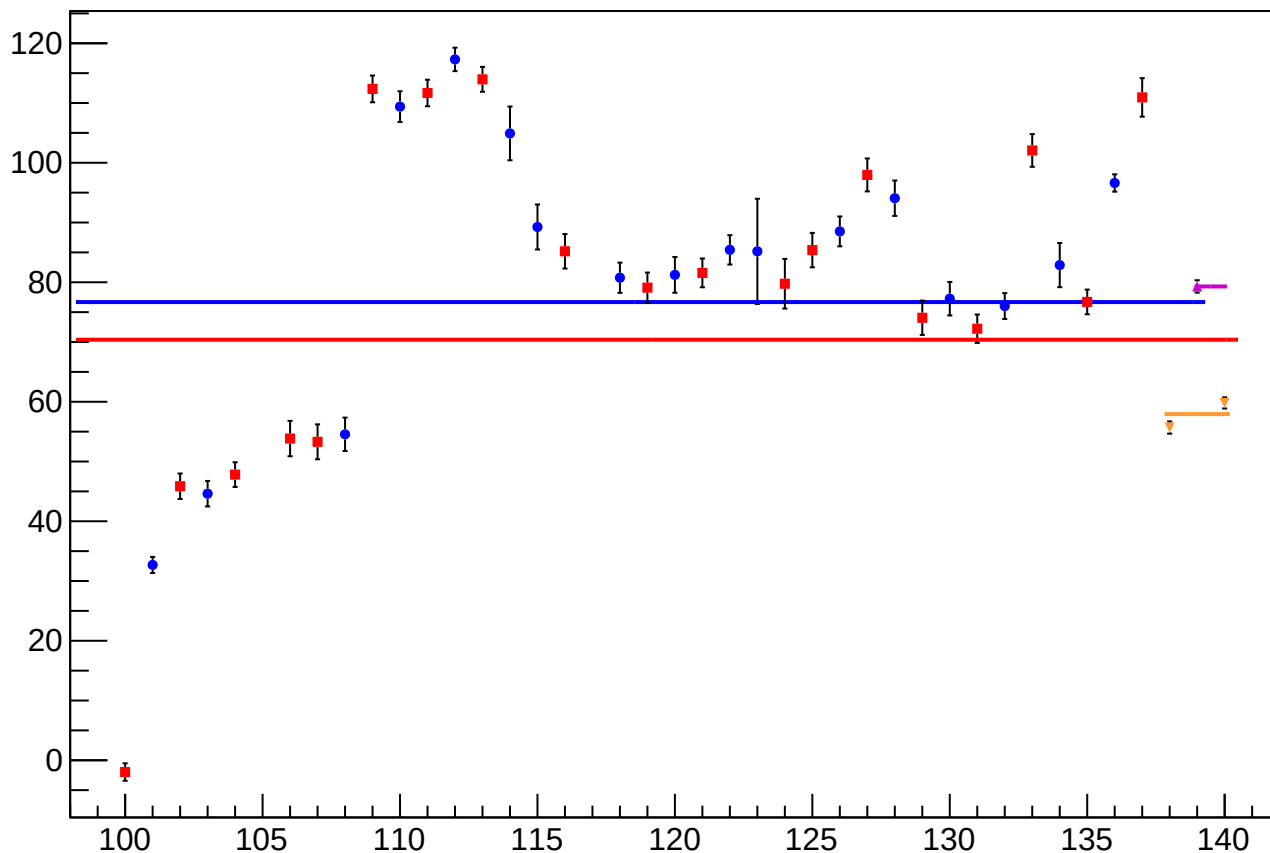
Right: 3.017+/-0.223  $\chi^2/\text{NDF}$ : 579.6/35

In: 2.491+/-0.306  $\chi^2/\text{NDF}$ : 294.0/17

Out: 1.809+/-0.278  $\chi^2/\text{NDF}$ : 432.8/20

All: 2.118+/-0.206  $\chi^2/\text{NDF}$ : 729.6/38

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: 57.934 $\pm$ 0.691  $\chi^2$ /NDF:8.8/1

Right Out: 70.386 $\pm$ 0.550  $\chi^2$ /NDF: 4391.1/18

Left In: 79.300 $\pm$ 1.042  $\chi^2$ /NDF:0.0/0

Left: 64.462 $\pm$ 0.576  $\chi^2$ /NDF: 300.9/2

Right: 73.402 $\pm$ 0.397  $\chi^2$ /NDF: 6719.1/35

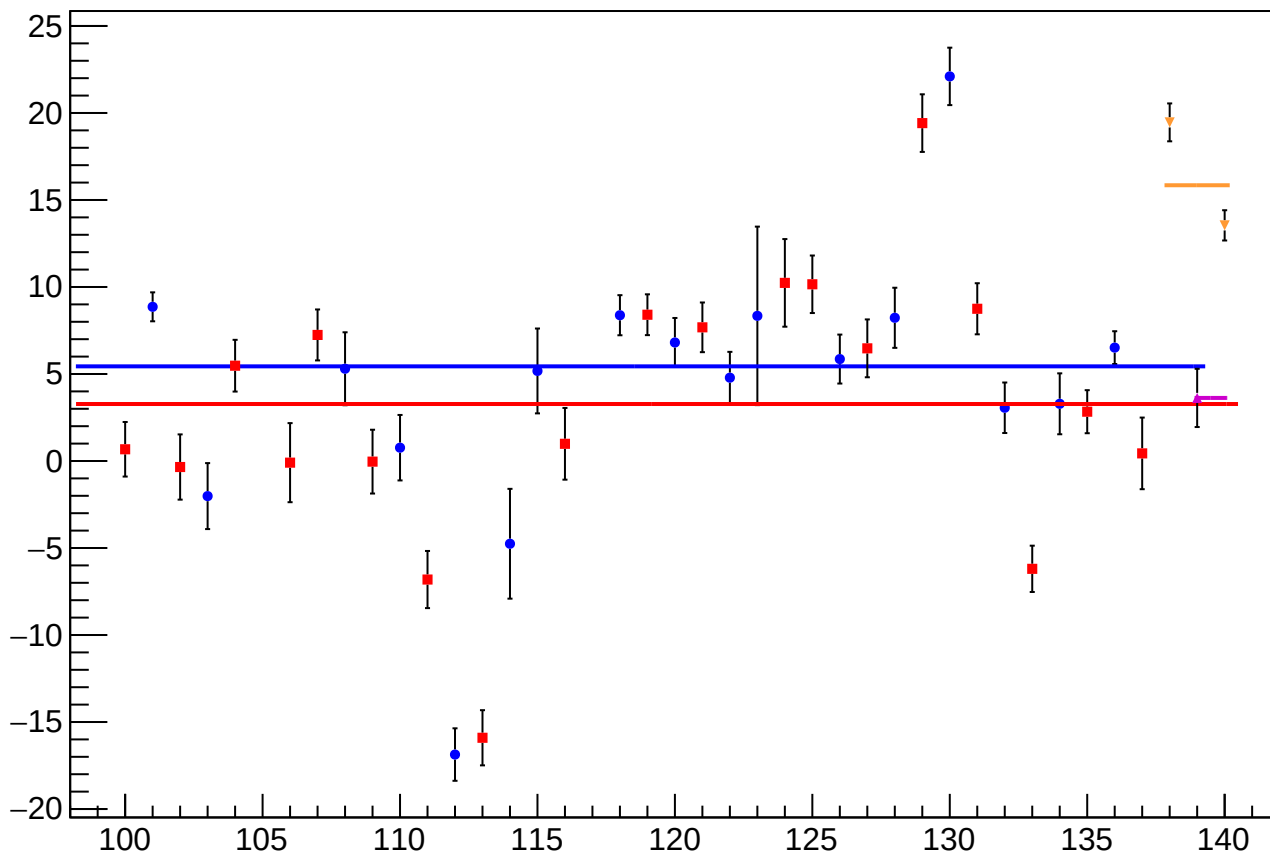
In: 77.295 $\pm$ 0.502  $\chi^2$ /NDF:2269.9/17

Out: 65.559 $\pm$ 0.430  $\chi^2$ /NDF:4598.8/20

All: 70.523 $\pm$ 0.327  $\chi^2$ /NDF: 7183.5/38



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: 15.847 $\pm$ 0.679  $\chi^2$ /NDF:18.0/1

Right Out: 3.275 $\pm$ 0.365  $\chi^2$ /NDF: 425.8/18

Left In: 3.625 $\pm$ 1.673  $\chi^2$ /NDF:0.0/0

Left: 14.116 $\pm$ 0.629  $\chi^2$ /NDF: 63.9/2

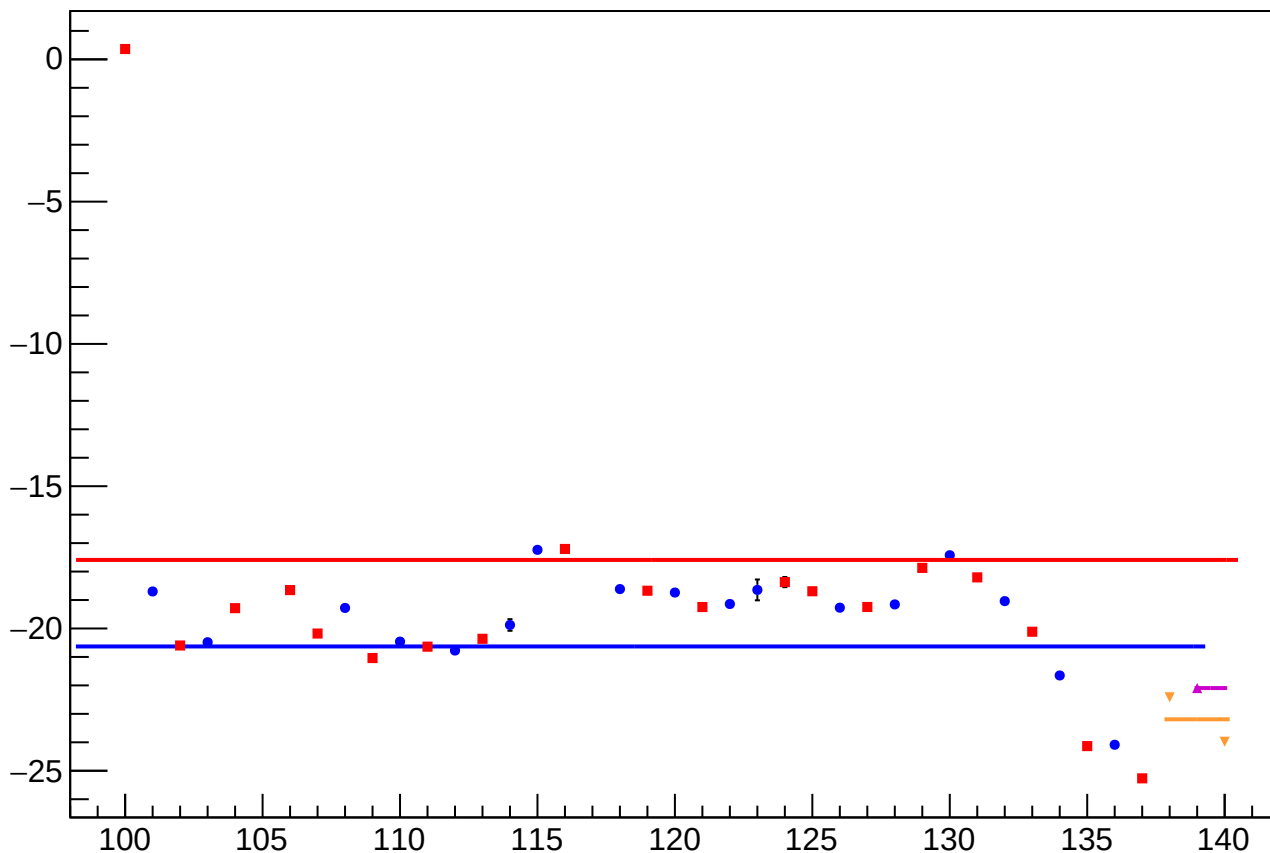
Right: 4.381 $\pm$ 0.256  $\chi^2$ /NDF: 829.6/35

In: 5.360 $\pm$ 0.350  $\chi^2$ /NDF:387.1/17

Out: 6.095 $\pm$ 0.322  $\chi^2$ /NDF:709.4/20

All: 5.758 $\pm$ 0.237  $\chi^2$ /NDF: 1098.9/38

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:  $-23.192 \pm 0.029$   $\chi^2/\text{NDF}: 736.6/1$

Right Out:  $-17.591 \pm 0.018$   $\chi^2/\text{NDF}: 178680.7/18$

Left In:  $-22.094 \pm 0.037$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-22.775 \pm 0.023$   $\chi^2/\text{NDF}: 1289.9/2$

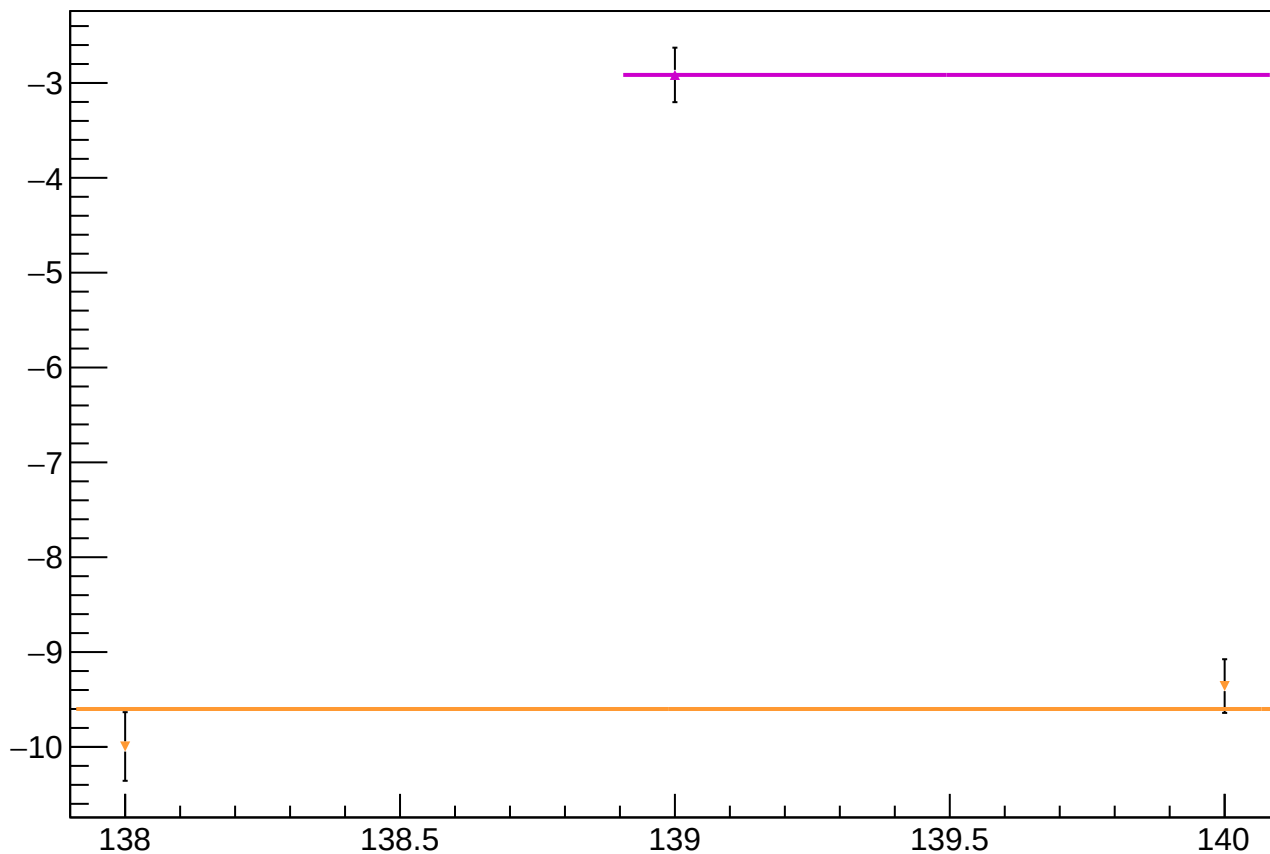
Right:  $-19.007 \pm 0.013$   $\chi^2/\text{NDF}: 204486.4/35$

In:  $-20.947 \pm 0.017$   $\chi^2/\text{NDF}: 13772.1/17$

Out:  $-19.169 \pm 0.015$   $\chi^2/\text{NDF}: 206650.3/20$

All:  $-19.959 \pm 0.011$   $\chi^2/\text{NDF}: 226451.2/38$

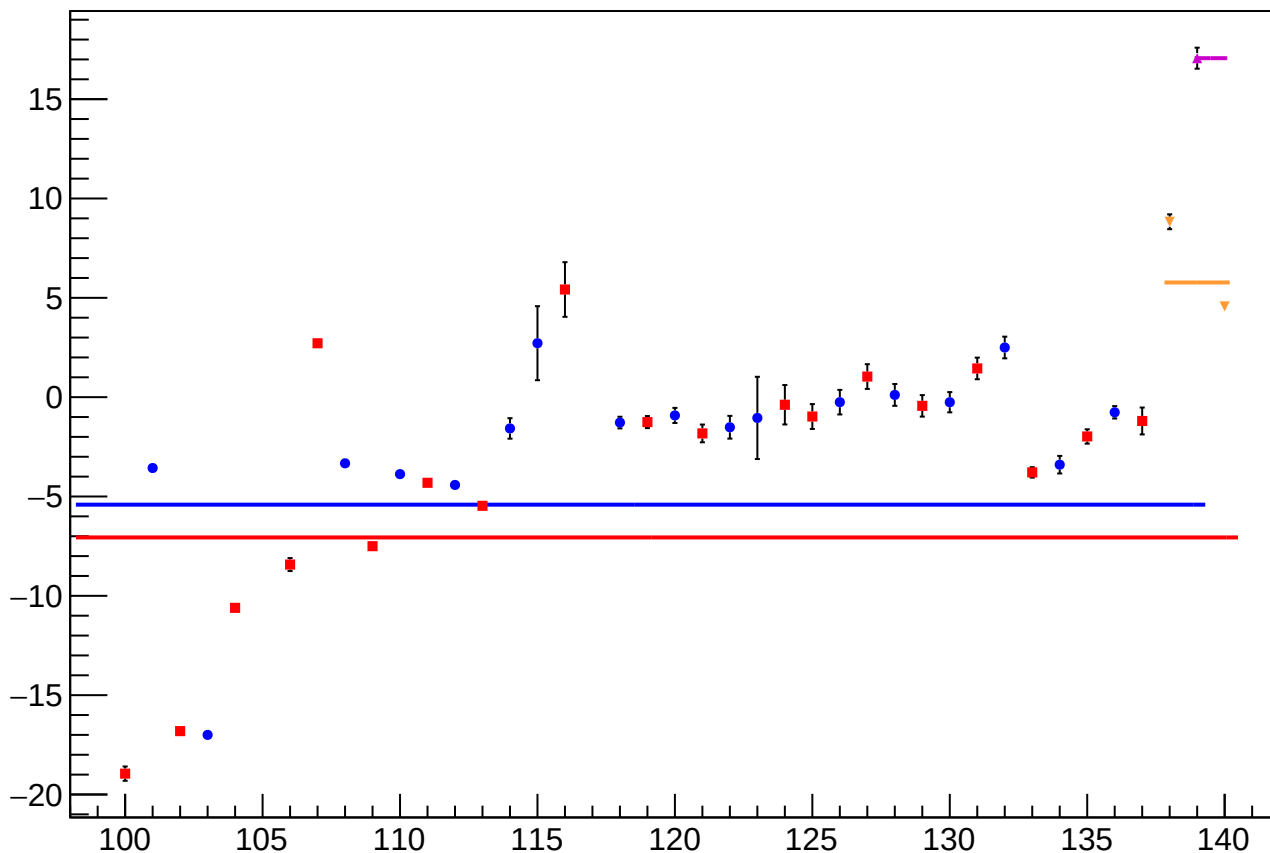
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.600 $\pm$ 0.223  $\chi^2$ /NDF: 1.9/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.915 $\pm$ 0.287  $\chi^2$ /NDF: 0.0/0

Left: -7.088 $\pm$ 0.176  $\chi^2$ /NDF: 340.0/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -2.915 $\pm$ 0.287  $\chi^2$ /NDF: 0.0/0  
 Out: -9.600 $\pm$ 0.223  $\chi^2$ /NDF: 1.9/1  
 All: -7.088 $\pm$ 0.176  $\chi^2$ /NDF: 340.0/2

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:  $5.773 \pm 0.199$   $\chi^2/\text{NDF}$ : 92.9/1

Right Out:  $-7.060 \pm 0.059$   $\chi^2/\text{NDF}$ : 12329.4/18

Left In:  $17.063 \pm 0.529$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $7.173 \pm 0.186$   $\chi^2/\text{NDF}$ : 491.7/2

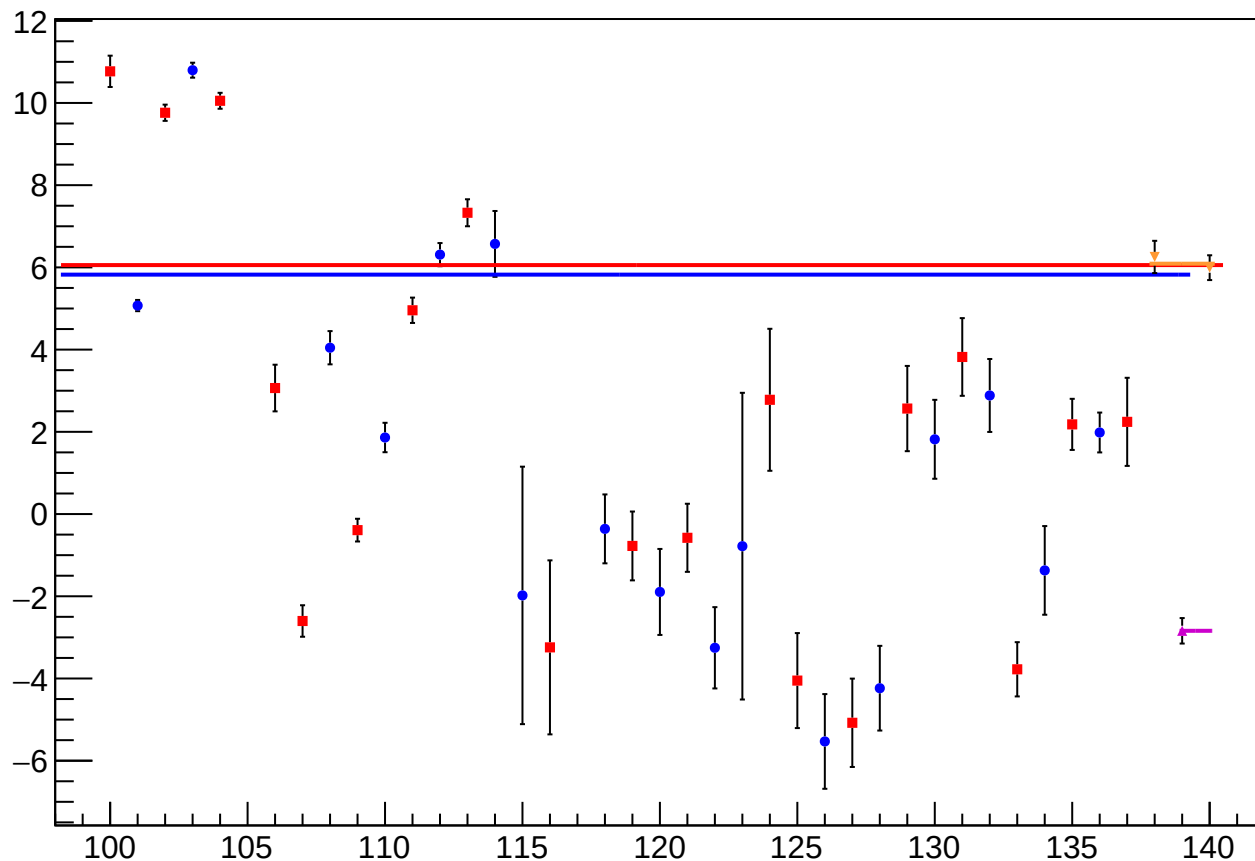
Right:  $-6.173 \pm 0.040$   $\chi^2/\text{NDF}$ : 22010.3/35

In:  $-5.173 \pm 0.054$   $\chi^2/\text{NDF}$ : 11046.0/17

Out:  $-6.023 \pm 0.057$   $\chi^2/\text{NDF}$ : 16241.1/20

All:  $-5.582 \pm 0.039$   $\chi^2/\text{NDF}$ : 27404.2/38

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 5.824 $\pm$ 0.090  $\chi^2$ /NDF: 1452.6/16

Left Out: 6.090 $\pm$ 0.239  $\chi^2$ /NDF:0.3/1

Right Out: 6.056 $\pm$ 0.093  $\chi^2$ /NDF: 2668.9/18

Left In: -2.840 $\pm$ 0.310  $\chi^2$ /NDF:0.0/0

Left: 2.758 $\pm$ 0.189  $\chi^2$ /NDF: 520.9/2

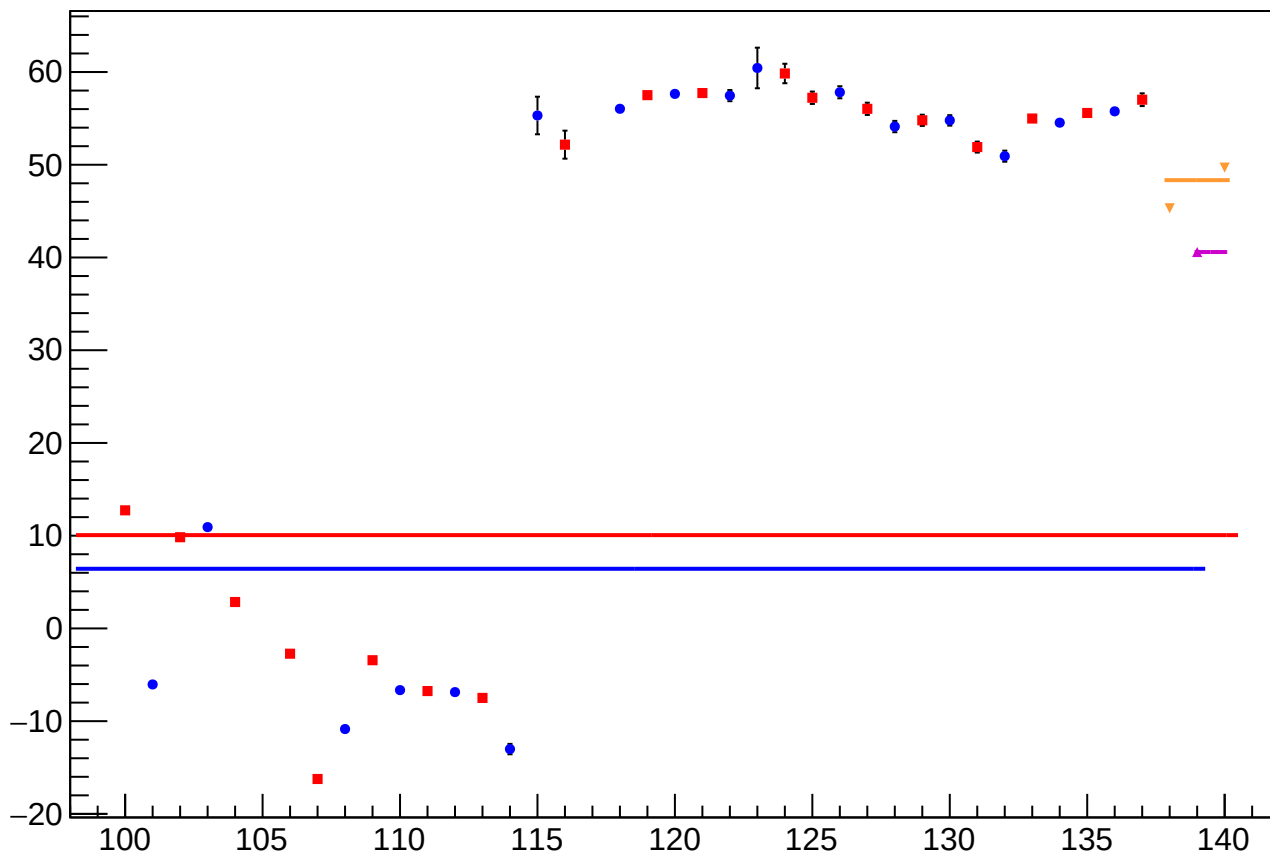
Right: 5.935 $\pm$ 0.065  $\chi^2$ /NDF: 4124.7/35

In: 5.156 $\pm$ 0.086  $\chi^2$ /NDF:2174.0/17

Out: 6.061 $\pm$ 0.087  $\chi^2$ /NDF:2669.2/20

All: 5.603 $\pm$ 0.061  $\chi^2$ /NDF: 4897.9/38

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 6.432+/-0.065  $\chi^2/\text{NDF}$ : 123486.3/16

Left Out: 48.341+/-0.236  $\chi^2/\text{NDF}$ : 73.8/1

Right Out: 10.060+/-0.070  $\chi^2/\text{NDF}$ : 121816.0/18

Left In: 40.588+/-0.510  $\chi^2/\text{NDF}$ : 0.0/0

Left: 46.979+/-0.214  $\chi^2/\text{NDF}$ : 264.0/2

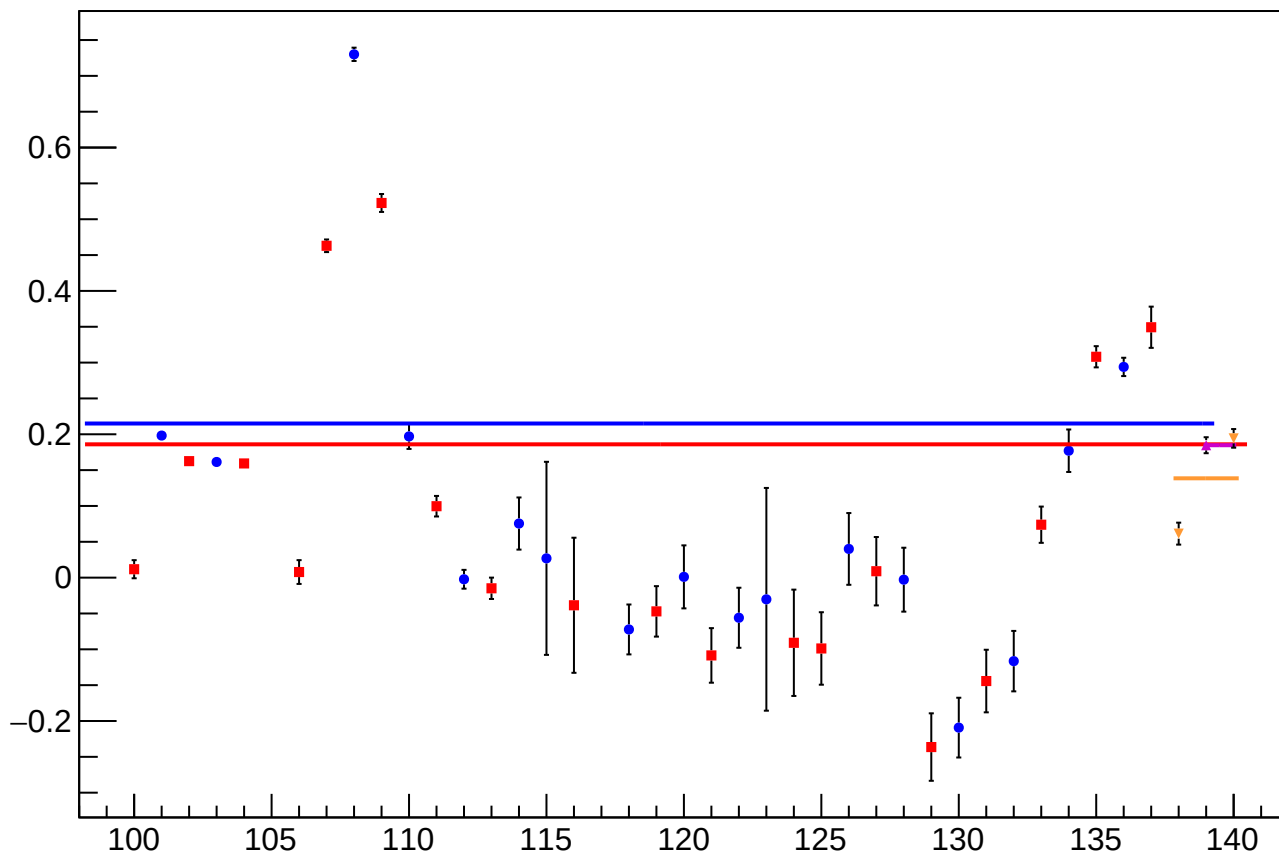
Right: 8.110+/-0.047  $\chi^2/\text{NDF}$ : 246756.9/35

In: 6.972+/-0.064  $\chi^2/\text{NDF}$ : 127893.5/17

Out: 13.144+/-0.067  $\chi^2/\text{NDF}$ : 146164.0/20

All: 9.932+/-0.046  $\chi^2/\text{NDF}$ : 278491.7/38

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 3930.1/16

Left Out: 0.139 $\pm$ 0.010  $\chi^2$ /NDF:43.7/1

Right Out: 0.186 $\pm$ 0.003  $\chi^2$ /NDF: 2720.3/18

Left In: 0.185 $\pm$ 0.011  $\chi^2$ /NDF:0.0/0

Left: 0.159 $\pm$ 0.007  $\chi^2$ /NDF: 53.3/2

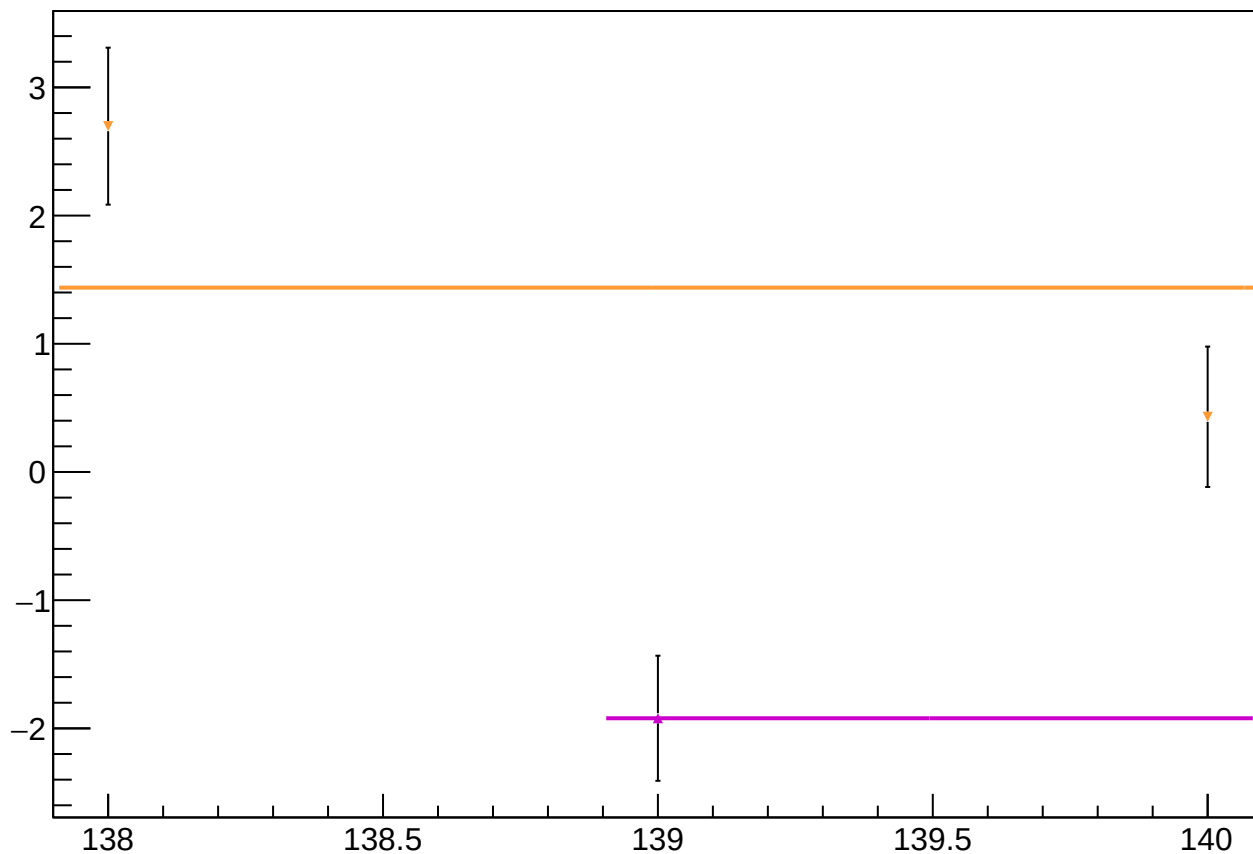
Right: 0.200 $\pm$ 0.002  $\chi^2$ /NDF: 6707.1/35

In: 0.213 $\pm$ 0.003  $\chi^2$ /NDF:3937.1/17

Out: 0.183 $\pm$ 0.003  $\chi^2$ /NDF:2785.3/20

All: 0.197 $\pm$ 0.002  $\chi^2$ /NDF: 6789.2/38

reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1.438+/-0.408  $\chi^2/\text{NDF}$ : 7.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.921+/-0.488  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.055+/-0.313  $\chi^2/\text{NDF}$ : 35.5/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

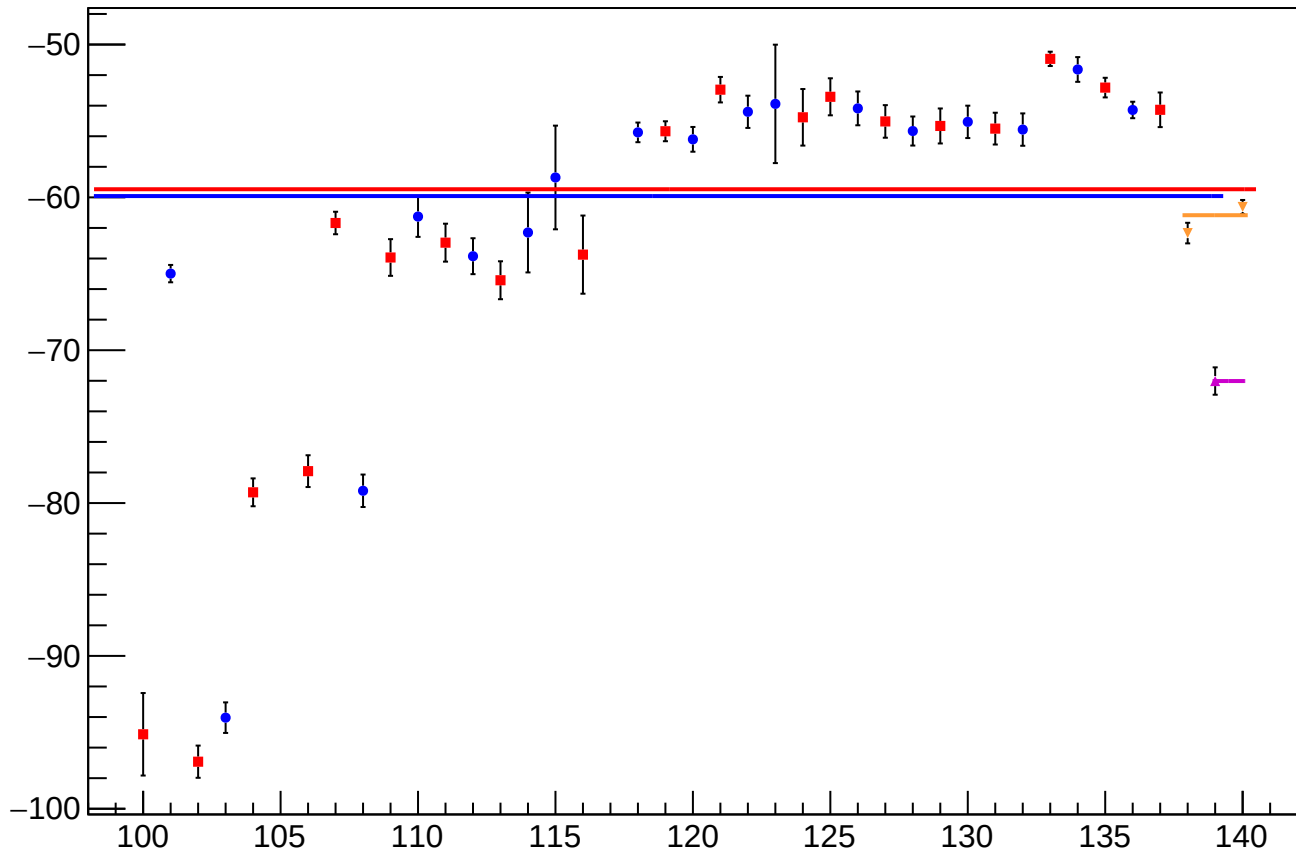
In: -1.921+/-0.488  $\chi^2/\text{NDF}$ : 0.0/0

Out: 1.438+/-0.408  $\chi^2/\text{NDF}$ : 7.6/1

All: 0.055+/-0.313  $\chi^2/\text{NDF}$ : 35.5/2



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:  $-61.167 \pm 0.378$   $\chi^2/\text{NDF}$ : 4.4/1

Right Out:  $-59.468 \pm 0.212$   $\chi^2/\text{NDF}$ : 2912.7/18

Left In:  $-72.017 \pm 0.895$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-62.811 \pm 0.348$   $\chi^2/\text{NDF}$ : 129.1/2

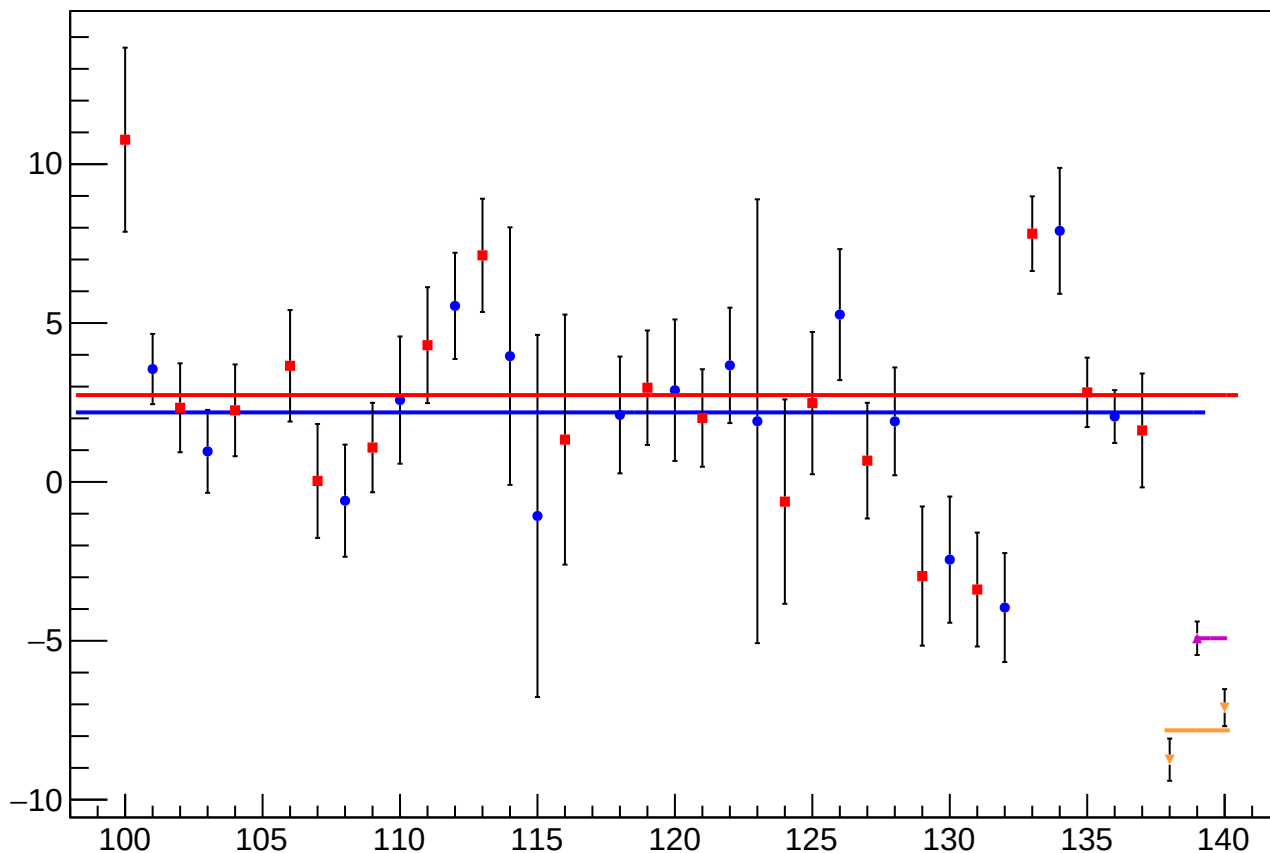
Right:  $-59.680 \pm 0.154$   $\chi^2/\text{NDF}$ : 4894.3/35

In:  $-60.622 \pm 0.216$   $\chi^2/\text{NDF}$ : 2151.6/17

Out:  $-59.874 \pm 0.185$   $\chi^2/\text{NDF}$ : 2932.4/20

All:  $-60.190 \pm 0.141$   $\chi^2/\text{NDF}$ : 5090.9/38

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:  $-7.817 \pm 0.438$   $\chi^2/\text{NDF}$ : 3.4/1

Right Out:  $2.733 \pm 0.388$   $\chi^2/\text{NDF}$ : 58.9/18

Left In:  $-4.920 \pm 0.527$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-6.631 \pm 0.337$   $\chi^2/\text{NDF}$ : 21.3/2

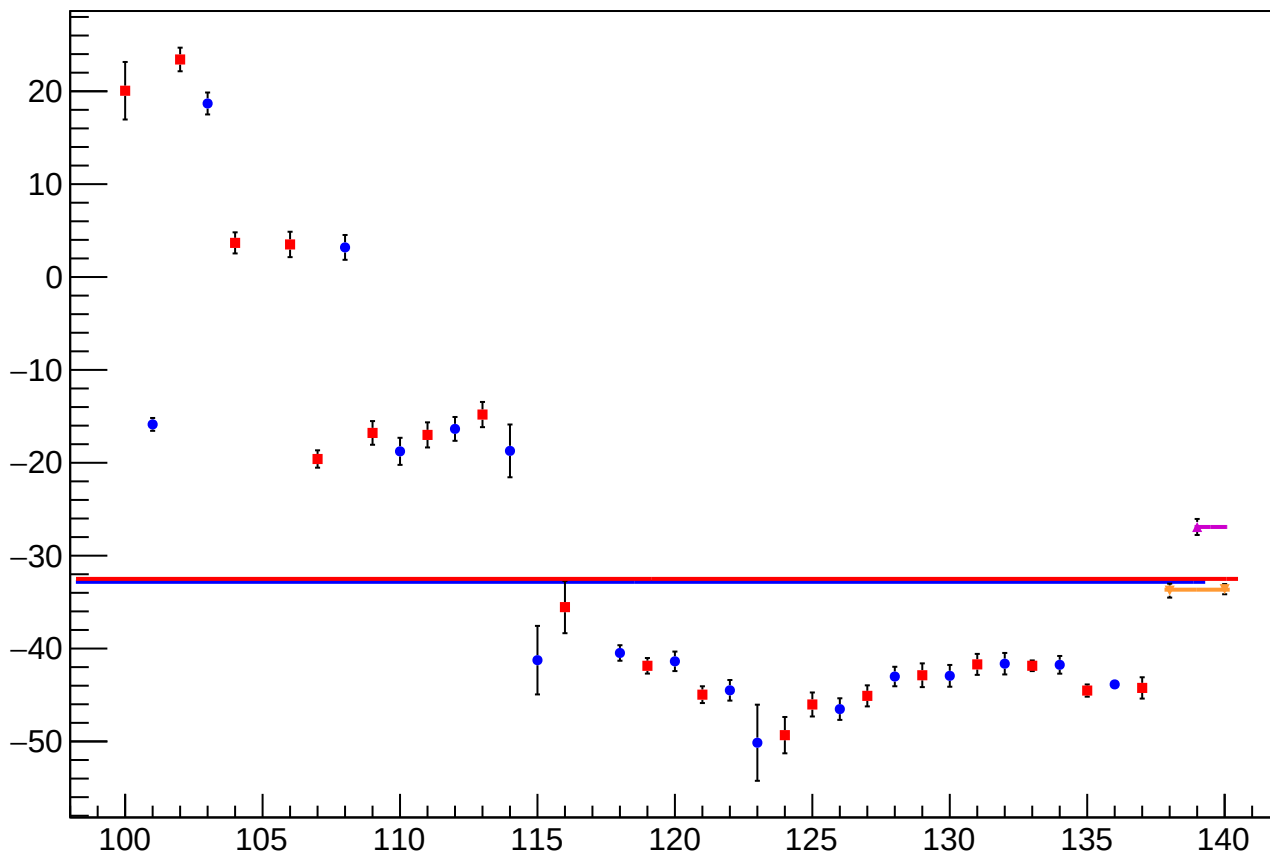
Right:  $2.472 \pm 0.280$   $\chi^2/\text{NDF}$ : 98.9/35

In:  $-0.446 \pm 0.321$   $\chi^2/\text{NDF}$ : 153.8/17

Out:  $-1.897 \pm 0.290$   $\chi^2/\text{NDF}$ : 387.4/20

All:  $-1.243 \pm 0.215$   $\chi^2/\text{NDF}$ : 552.4/38

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:  $-33.662 \pm 0.443$   $\chi^2/\text{NDF}: 0.0/1$

Right Out:  $-32.501 \pm 0.244$   $\chi^2/\text{NDF}: 6037.9/18$

Left In:  $-26.910 \pm 0.863$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-32.252 \pm 0.394$   $\chi^2/\text{NDF}: 48.4/2$

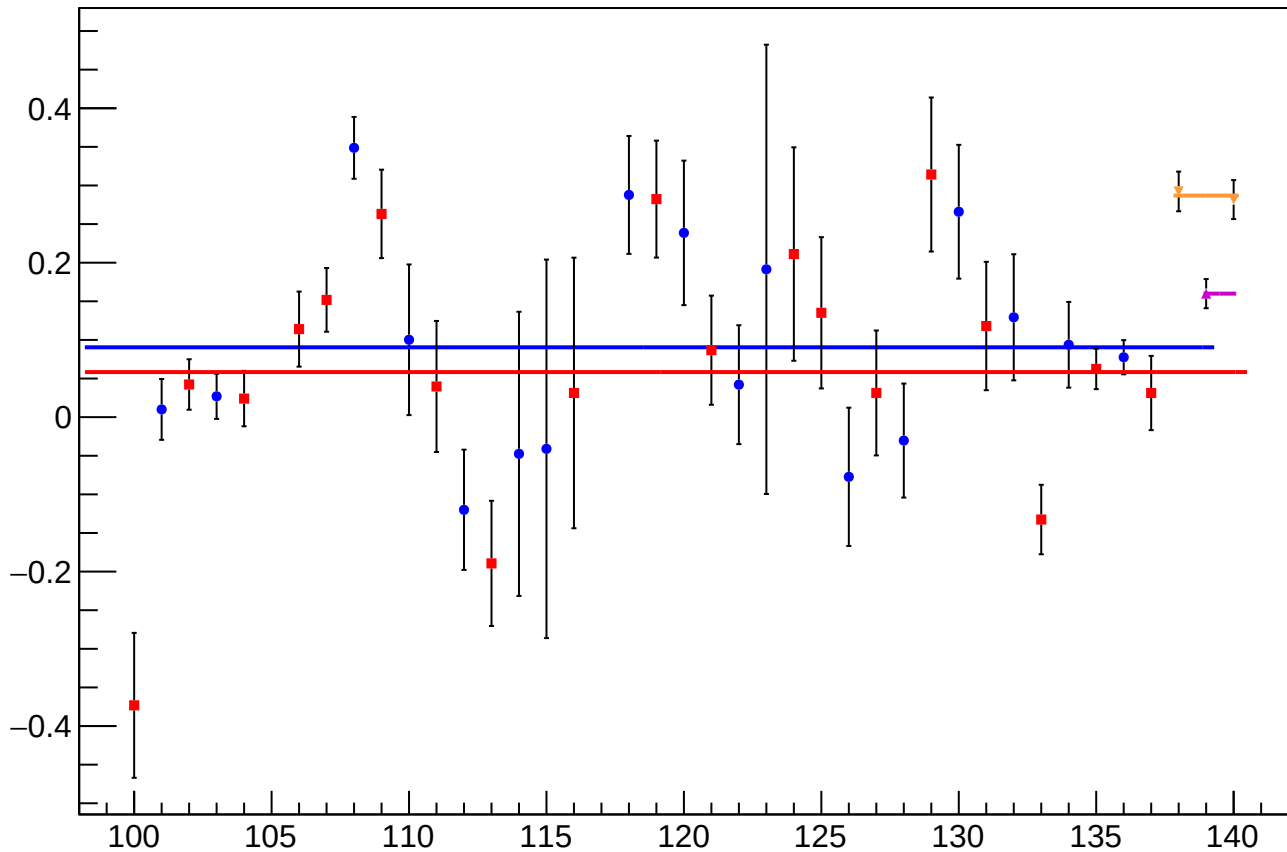
Right:  $-32.652 \pm 0.176$   $\chi^2/\text{NDF}: 10705.2/35$

In:  $-32.346 \pm 0.244$   $\chi^2/\text{NDF}: 4709.7/17$

Out:  $-32.771 \pm 0.214$   $\chi^2/\text{NDF}: 6043.1/20$

All:  $-32.586 \pm 0.161$   $\chi^2/\text{NDF}: 10754.5/38$

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: 0.287 $\pm$ 0.018  $\chi^2$ /NDF: 0.1/1

Right Out: 0.058 $\pm$ 0.012  $\chi^2$ /NDF: 87.3/18

Left In: 0.160 $\pm$ 0.019  $\chi^2$ /NDF: 0.0/0

Left: 0.226 $\pm$ 0.013  $\chi^2$ /NDF: 23.8/2

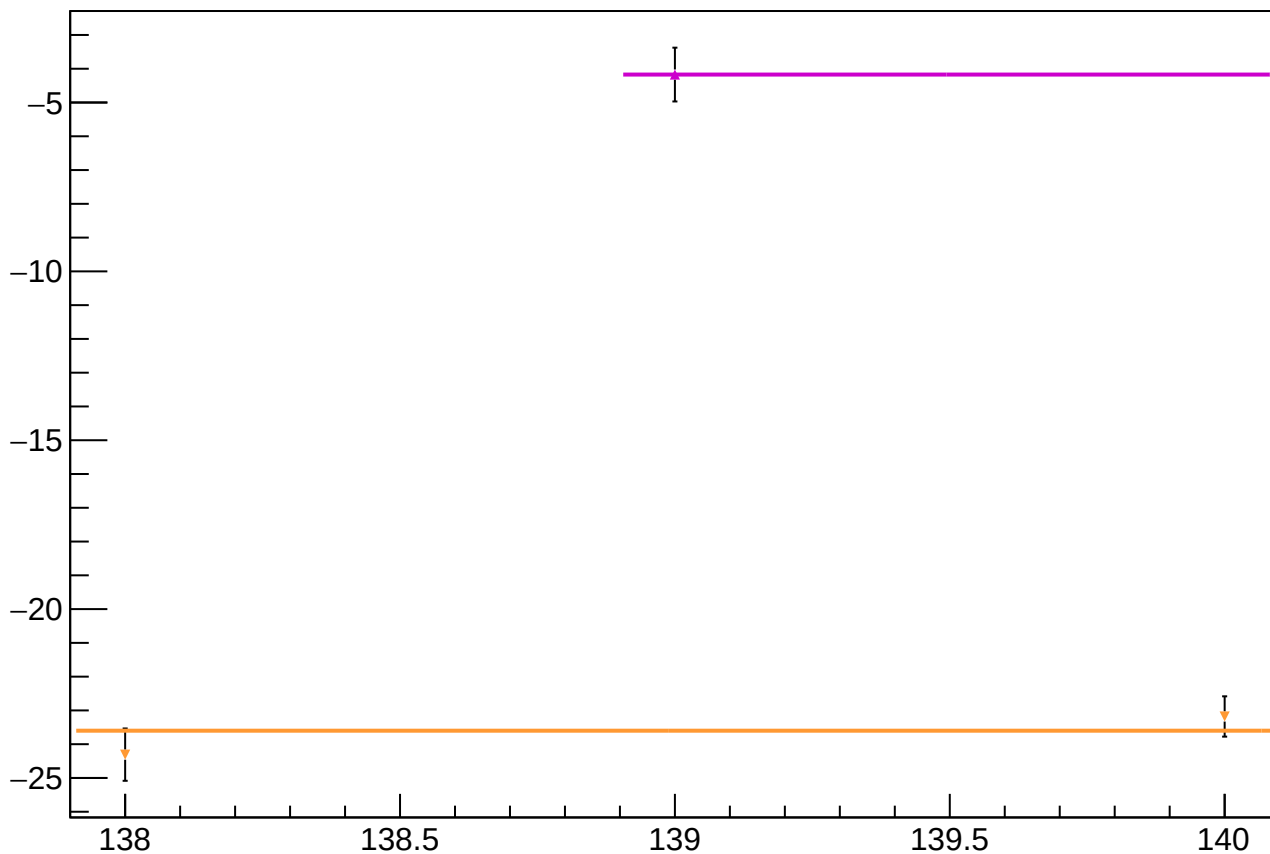
Right: 0.074 $\pm$ 0.009  $\chi^2$ /NDF: 169.9/35

In: 0.112 $\pm$ 0.011  $\chi^2$ /NDF: 88.6/17

Out: 0.130 $\pm$ 0.010  $\chi^2$ /NDF: 198.2/20

All: 0.121 $\pm$ 0.007  $\chi^2$ /NDF: 288.2/38

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: -23.600 $\pm$ 0.473  $\chi^2/\text{NDF}$ : 1.3/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.173 $\pm$ 0.796  $\chi^2/\text{NDF}$ : 0.0/0

Left: -18.537 $\pm$ 0.407  $\chi^2/\text{NDF}$ : 441.4/2

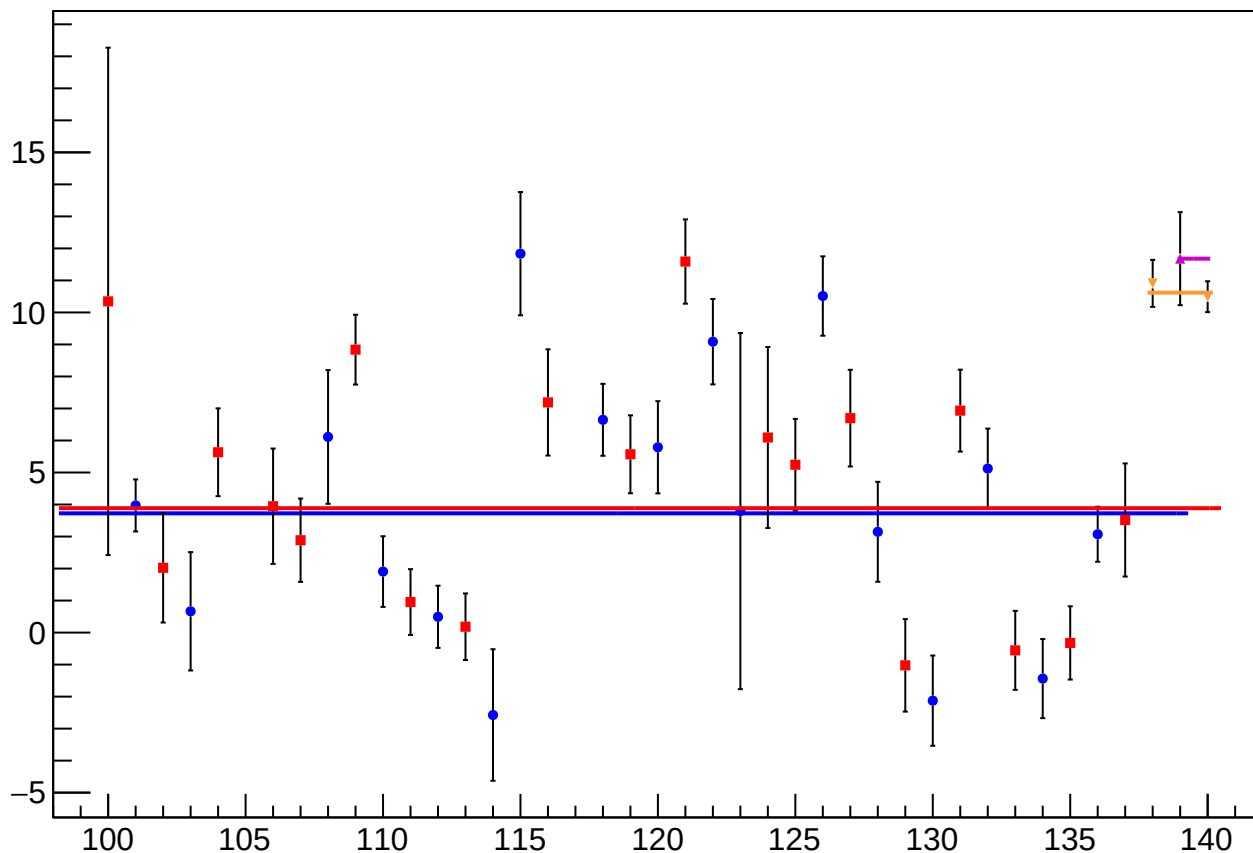
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.173 $\pm$ 0.796  $\chi^2/\text{NDF}$ : 0.0/0

Out: -23.600 $\pm$ 0.473  $\chi^2/\text{NDF}$ : 1.3/1

All: -18.537 $\pm$ 0.407  $\chi^2/\text{NDF}$ : 441.4/2

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: 10.617 $\pm$ 0.403  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 3.885 $\pm$ 0.316  $\chi^2/\text{NDF}$ : 134.4/18

Left In: 11.680 $\pm$ 1.453  $\chi^2/\text{NDF}$ : 0.0/0

Left: 10.693 $\pm$ 0.389  $\chi^2/\text{NDF}$ : 0.7/2

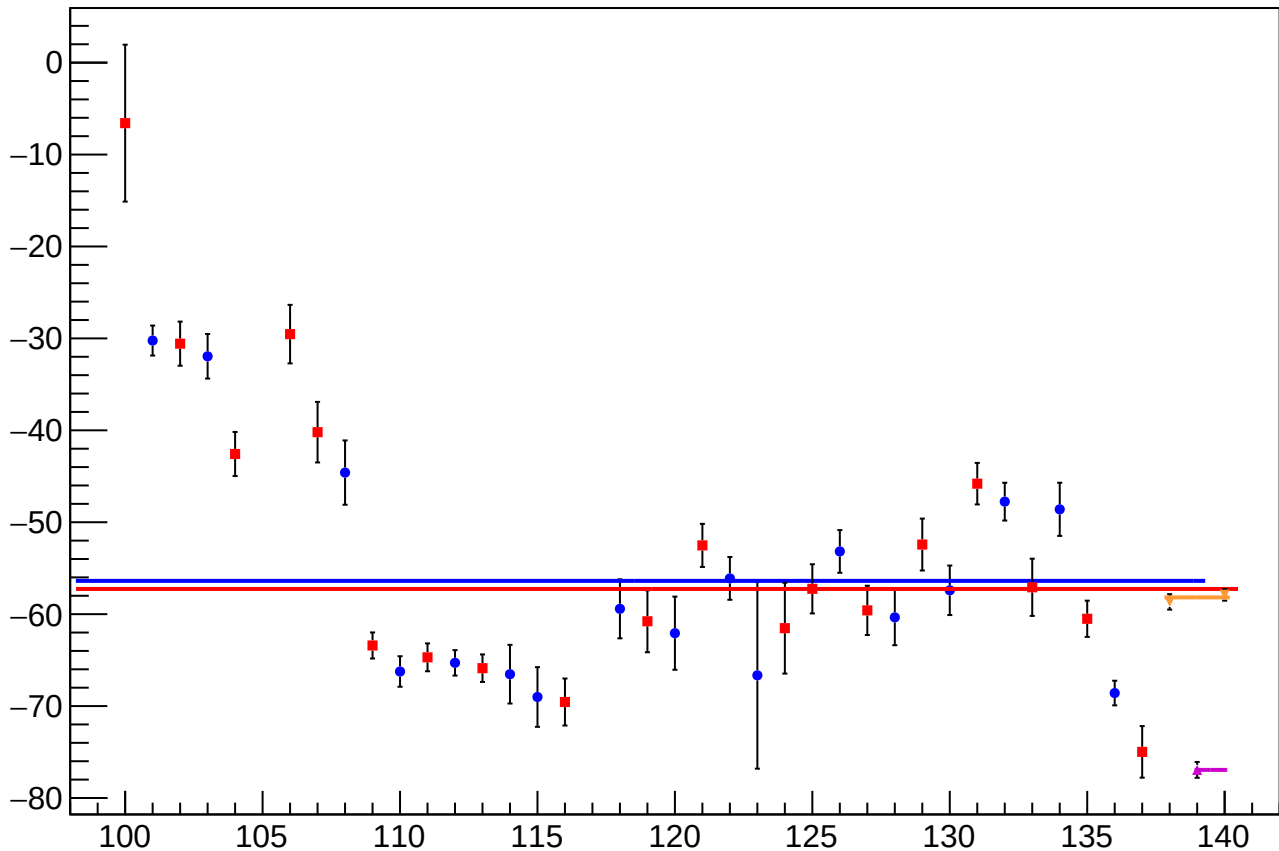
Right: 3.803 $\pm$ 0.221  $\chi^2/\text{NDF}$ : 271.3/35

In: 4.067 $\pm$ 0.302  $\chi^2/\text{NDF}$ : 165.4/17

Out: 6.449 $\pm$ 0.249  $\chi^2/\text{NDF}$ : 307.2/20

All: 5.485 $\pm$ 0.192  $\chi^2/\text{NDF}$ : 509.7/38

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:  $-58.177 \pm 0.507$   $\chi^2/\text{NDF}$ : 0.5/1

Right Out:  $-57.258 \pm 0.536$   $\chi^2/\text{NDF}$ : 476.1/18

Left In:  $-76.942 \pm 0.861$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-63.006 \pm 0.437$   $\chi^2/\text{NDF}$ : 353.6/2

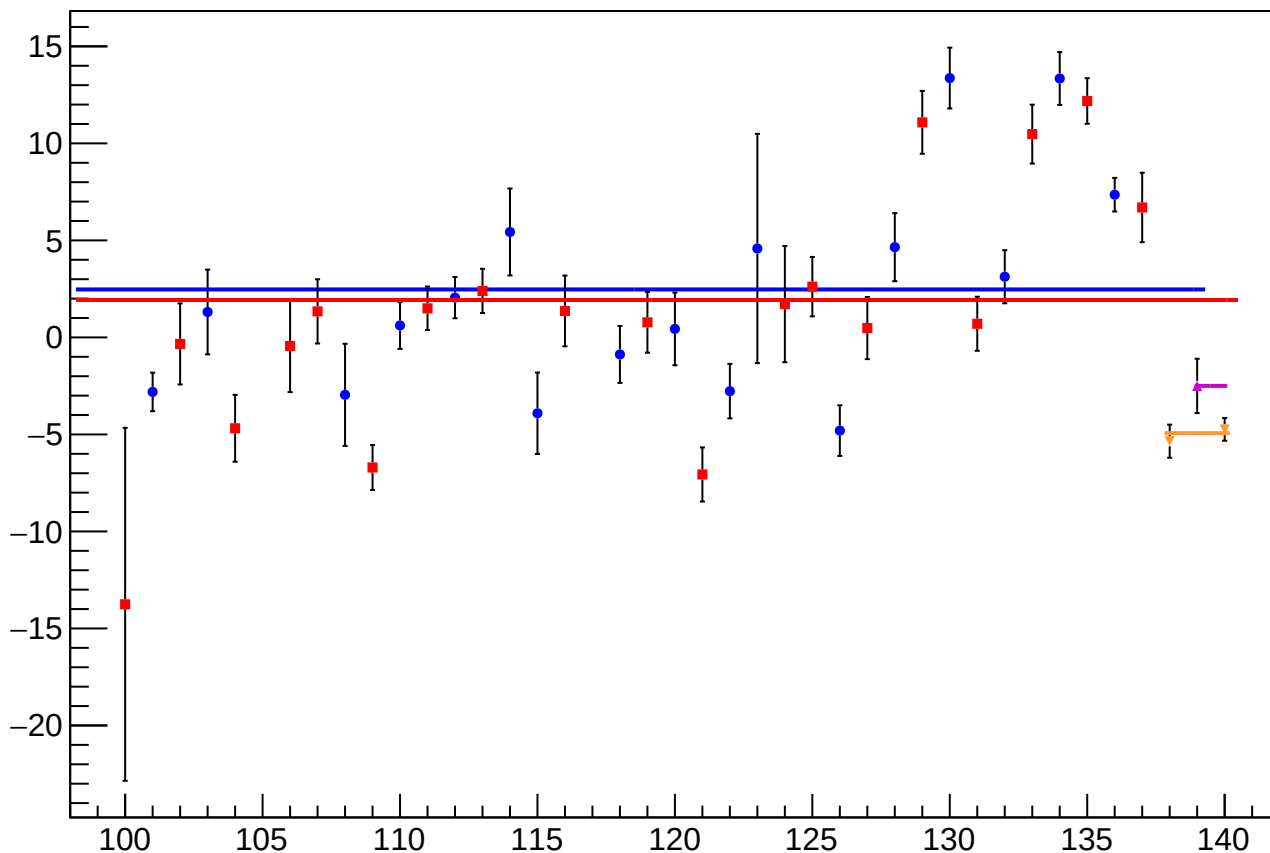
Right:  $-56.823 \pm 0.381$   $\chi^2/\text{NDF}$ : 1064.8/35

In:  $-62.217 \pm 0.459$   $\chi^2/\text{NDF}$ : 996.2/17

Out:  $-57.743 \pm 0.368$   $\chi^2/\text{NDF}$ : 478.2/20

All:  $-59.496 \pm 0.287$   $\chi^2/\text{NDF}$ : 1532.2/38

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:  $-4.934 \pm 0.482$   $\chi^2/\text{NDF}$ : 0.3/1

Right Out:  $1.928 \pm 0.355$   $\chi^2/\text{NDF}$ : 266.6/18

Left In:  $-2.500 \pm 1.401$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-4.676 \pm 0.456$   $\chi^2/\text{NDF}$ : 3.0/2

Right:  $2.208 \pm 0.248$   $\chi^2/\text{NDF}$ : 511.4/35

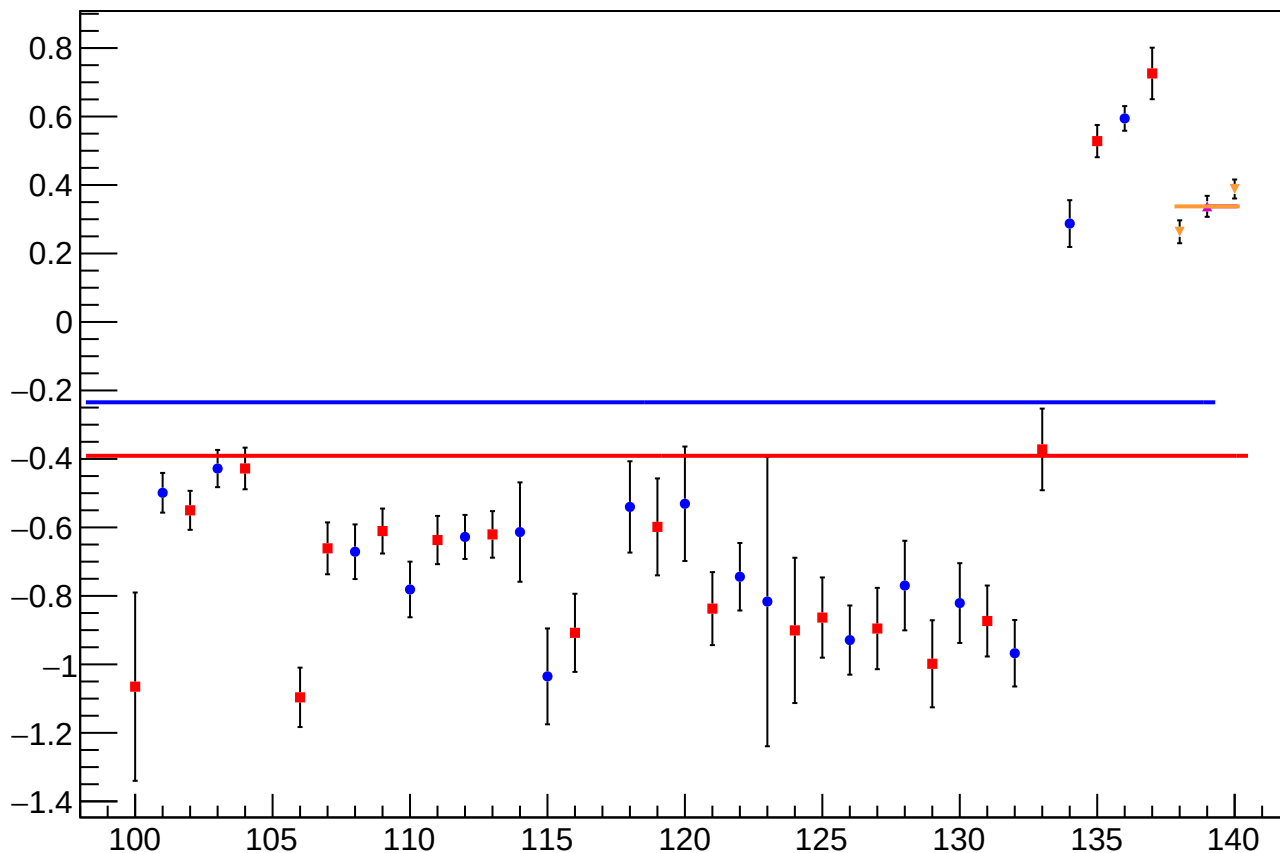
In:  $2.187 \pm 0.335$   $\chi^2/\text{NDF}$ : 255.5/17

Out:  $-0.484 \pm 0.286$   $\chi^2/\text{NDF}$ : 398.5/20

All:  $0.639 \pm 0.218$   $\chi^2/\text{NDF}$ : 690.7/38



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:  $0.338 \pm 0.021$   $\chi^2/\text{NDF}$ : 8.3/1

Right Out:  $-0.391 \pm 0.019$   $\chi^2/\text{NDF}$ : 853.3/18

Left In:  $0.338 \pm 0.031$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.338 \pm 0.018$   $\chi^2/\text{NDF}$ : 8.3/2

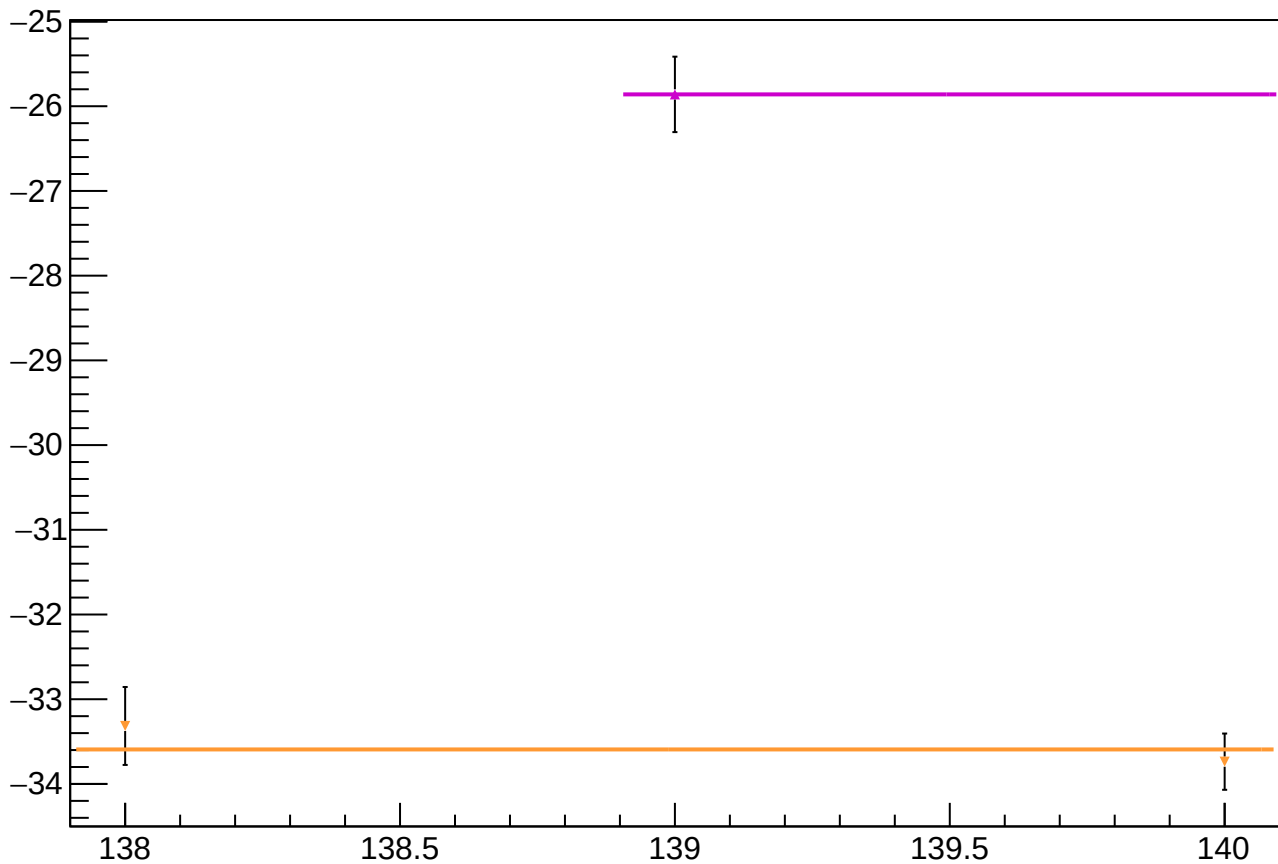
Right:  $-0.312 \pm 0.013$   $\chi^2/\text{NDF}$ : 1845.8/35

In:  $-0.077 \pm 0.016$   $\chi^2/\text{NDF}$ : 1211.4/17

Out:  $-0.070 \pm 0.014$   $\chi^2/\text{NDF}$ : 1513.0/20

All:  $-0.073 \pm 0.011$   $\chi^2/\text{NDF}$ : 2724.5/38

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: -33.593 $\pm$ 0.269  $\chi^2/\text{NDF}$ : 0.6/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -25.860 $\pm$ 0.445  $\chi^2/\text{NDF}$ : 0.0/0

Left: -31.522 $\pm$ 0.230  $\chi^2/\text{NDF}$ : 221.4/2

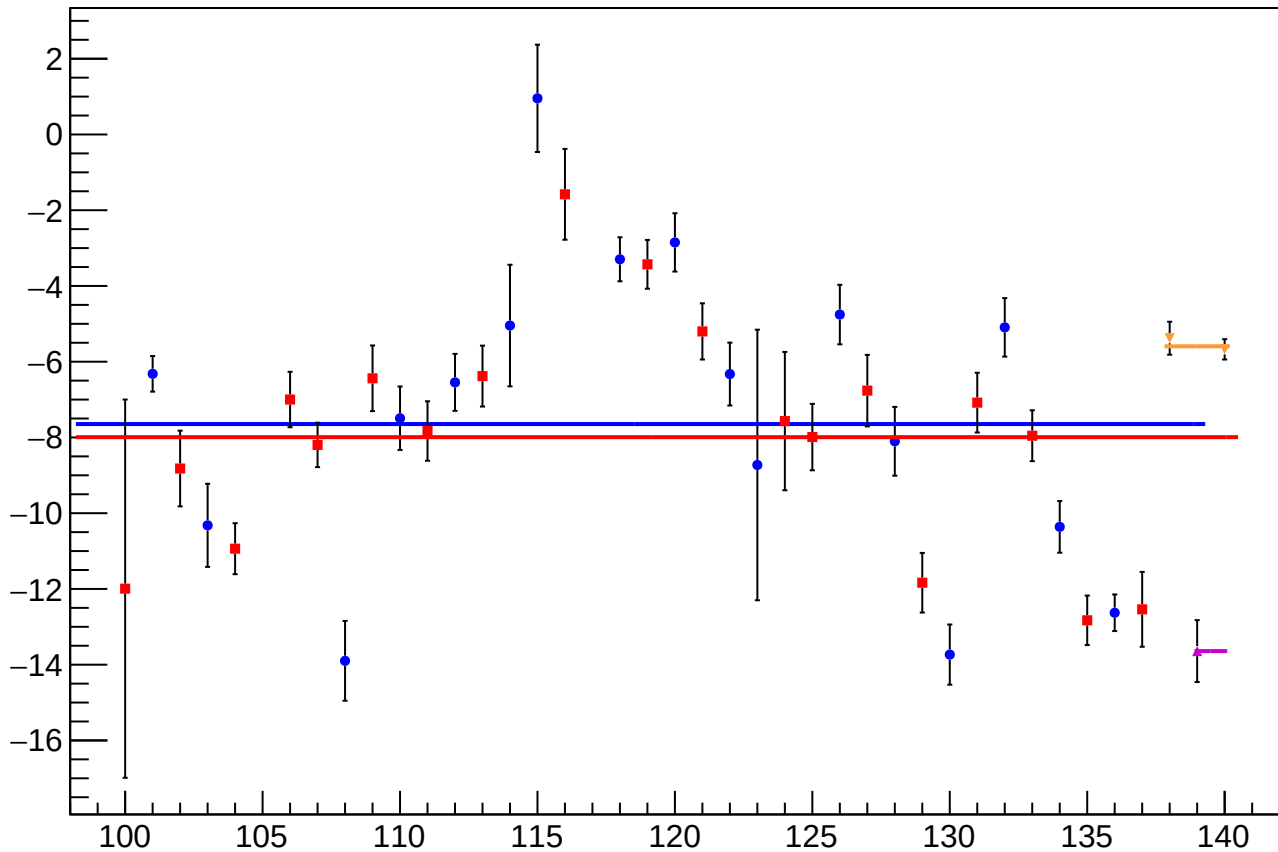
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -25.860 $\pm$ 0.445  $\chi^2/\text{NDF}$ : 0.0/0

Out: -33.593 $\pm$ 0.269  $\chi^2/\text{NDF}$ : 0.6/1

All: -31.522 $\pm$ 0.230  $\chi^2/\text{NDF}$ : 221.4/2

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:  $-5.593 \pm 0.228$   $\chi^2/\text{NDF}$ : 0.3/1

Right Out:  $-7.992 \pm 0.186$   $\chi^2/\text{NDF}$ : 225.5/18

Left In:  $-13.641 \pm 0.818$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-6.175 \pm 0.220$   $\chi^2/\text{NDF}$ : 90.2/2

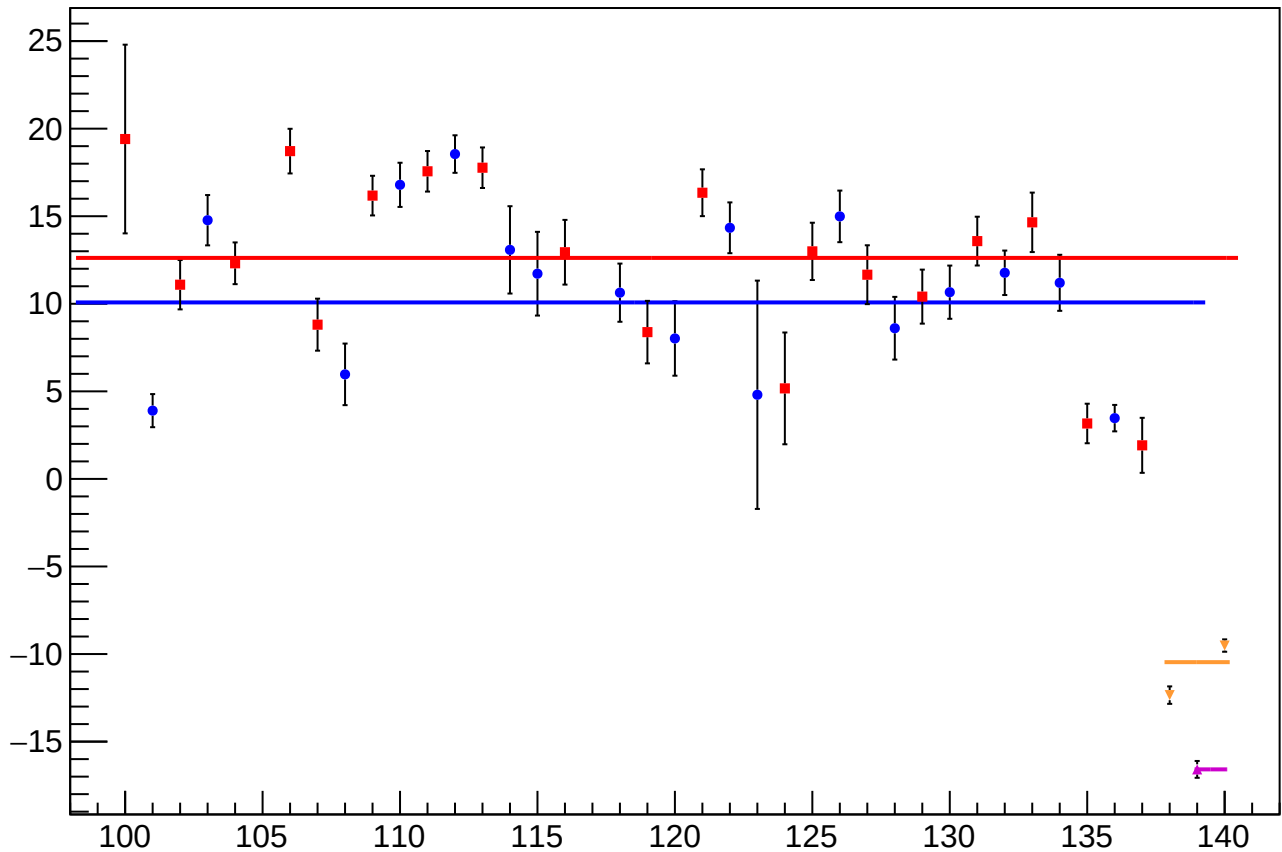
Right:  $-7.819 \pm 0.131$   $\chi^2/\text{NDF}$ : 620.8/35

In:  $-7.940 \pm 0.181$   $\chi^2/\text{NDF}$ : 444.7/17

Out:  $-7.036 \pm 0.144$   $\chi^2/\text{NDF}$ : 292.2/20

All:  $-7.387 \pm 0.113$   $\chi^2/\text{NDF}$ : 752.2/38

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:  $-10.463 \pm 0.288$   $\chi^2/\text{NDF}$ : 21.5/1

Right Out:  $12.620 \pm 0.332$   $\chi^2/\text{NDF}$ : 220.0/18

Left In:  $-16.586 \pm 0.481$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-12.083 \pm 0.247$   $\chi^2/\text{NDF}$ : 140.8/2

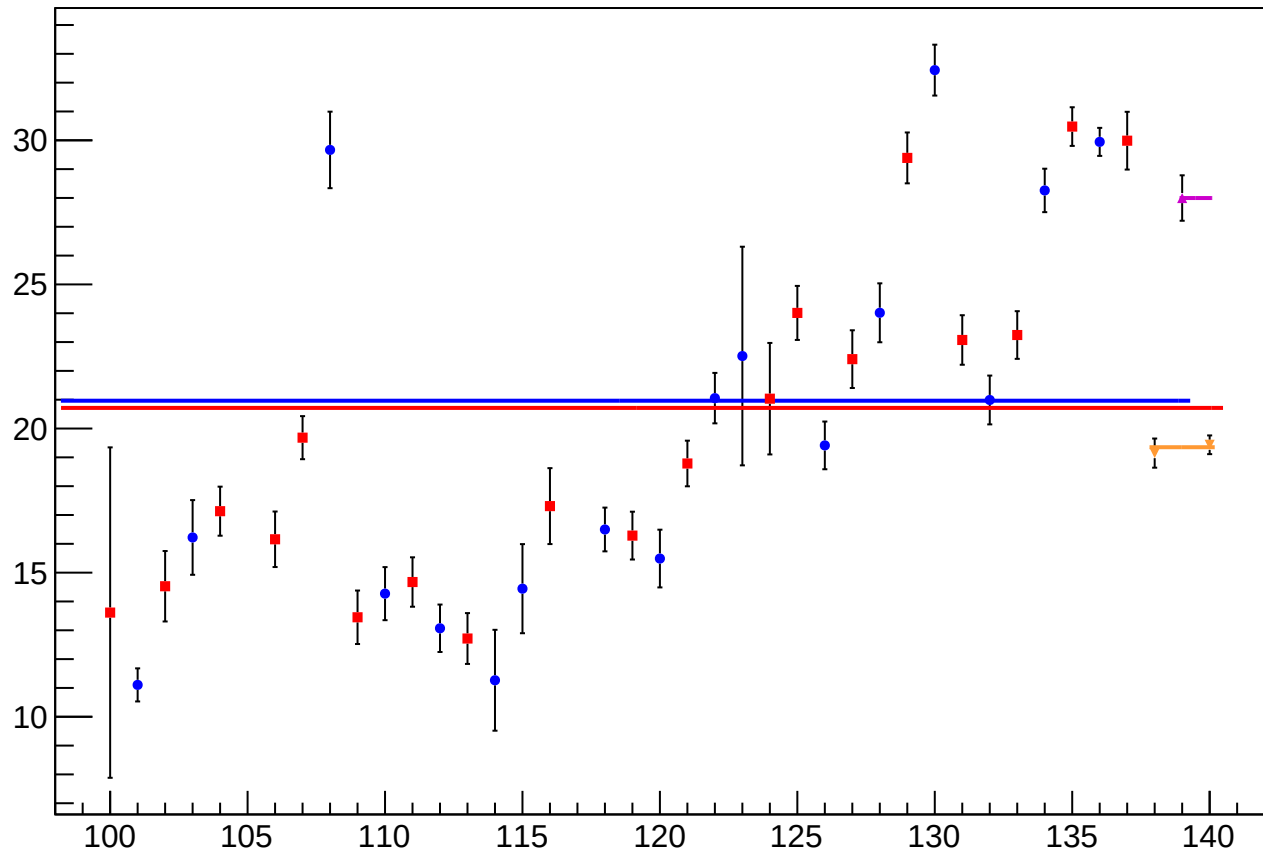
Right:  $11.365 \pm 0.237$   $\chi^2/\text{NDF}$ : 501.6/35

In:  $1.298 \pm 0.276$   $\chi^2/\text{NDF}$ : 2316.8/17

Out:  $-0.553 \pm 0.218$   $\chi^2/\text{NDF}$ : 2992.8/20

All:  $0.158 \pm 0.171$   $\chi^2/\text{NDF}$ : 5337.3/38

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: 19.352 $\pm$ 0.273  $\chi^2$ /NDF: 0.2/1

Right Out: 20.716 $\pm$ 0.213  $\chi^2$ /NDF: 729.9/18

Left In: 27.997 $\pm$ 0.788  $\chi^2$ /NDF: 0.0/0

Left: 20.279 $\pm$ 0.258  $\chi^2$ /NDF: 107.6/2

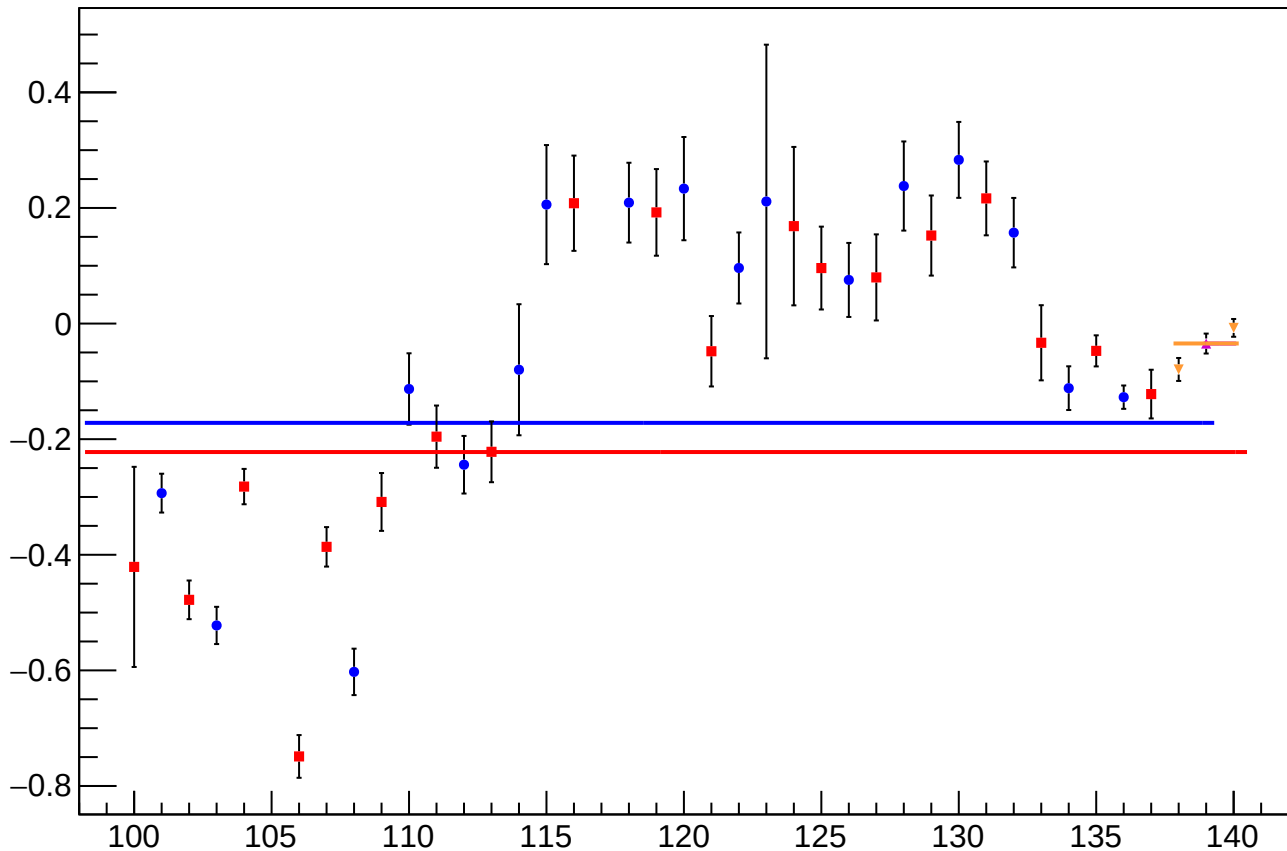
Right: 20.842 $\pm$ 0.149  $\chi^2$ /NDF: 1956.1/35

In: 21.429 $\pm$ 0.202  $\chi^2$ /NDF: 1299.8/17

Out: 20.201 $\pm$ 0.168  $\chi^2$ /NDF: 745.6/20

All: 20.701 $\pm$ 0.129  $\chi^2$ /NDF: 2067.2/38

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:  $-0.034 \pm 0.012$   $\chi^2/\text{NDF}$ : 8.2/1

Right Out:  $-0.222 \pm 0.011$   $\chi^2/\text{NDF}$ : 536.1/18

Left In:  $-0.035 \pm 0.017$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.034 \pm 0.010$   $\chi^2/\text{NDF}$ : 8.2/2

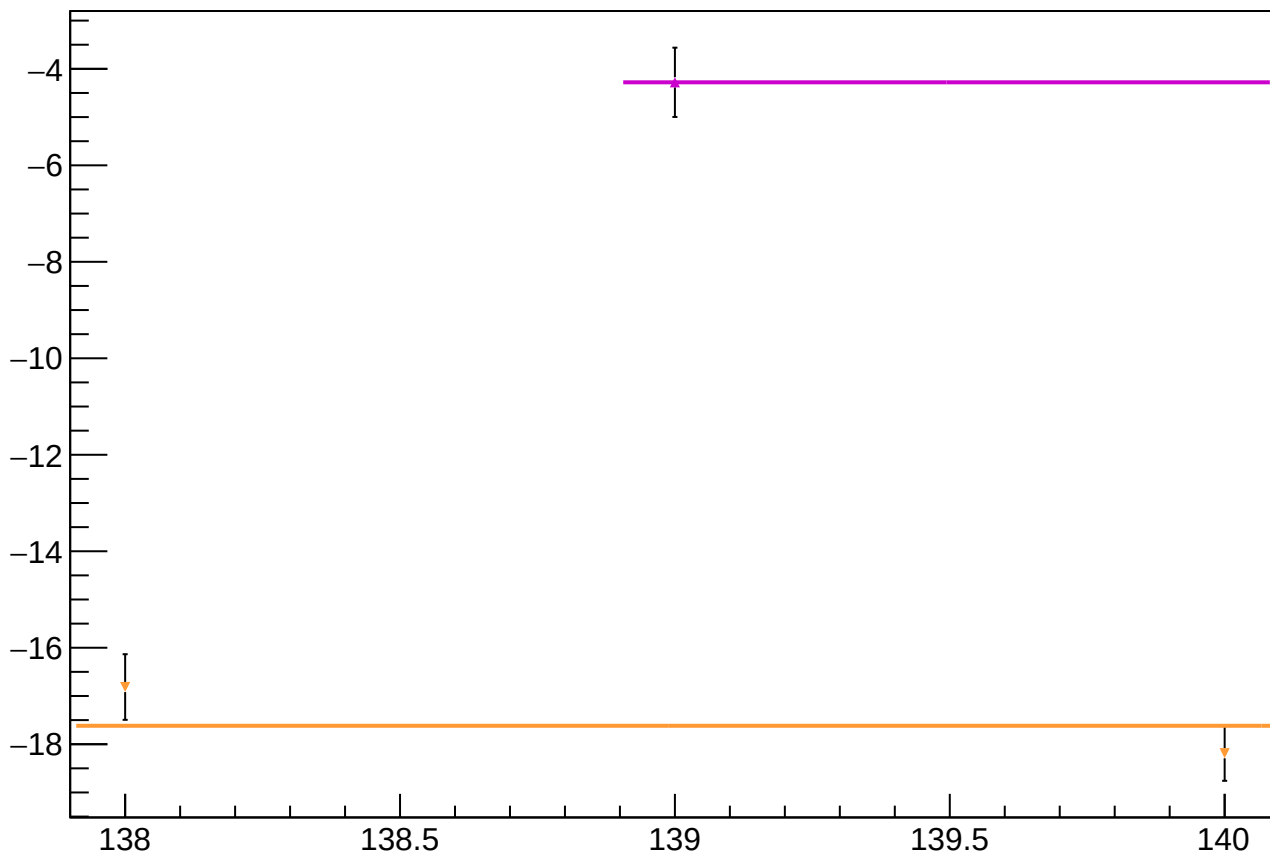
Right:  $-0.198 \pm 0.008$   $\chi^2/\text{NDF}$ : 1010.7/35

In:  $-0.131 \pm 0.009$   $\chi^2/\text{NDF}$ : 508.8/17

Out:  $-0.138 \pm 0.008$   $\chi^2/\text{NDF}$ : 676.0/20

All:  $-0.135 \pm 0.006$   $\chi^2/\text{NDF}$ : 1185.1/38

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -17.618+/-0.438  $\chi^2/\text{NDF}$ : 2.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.279+/-0.718  $\chi^2/\text{NDF}$ : 0.0/0

Left: -14.004+/-0.374  $\chi^2/\text{NDF}$ : 253.9/2

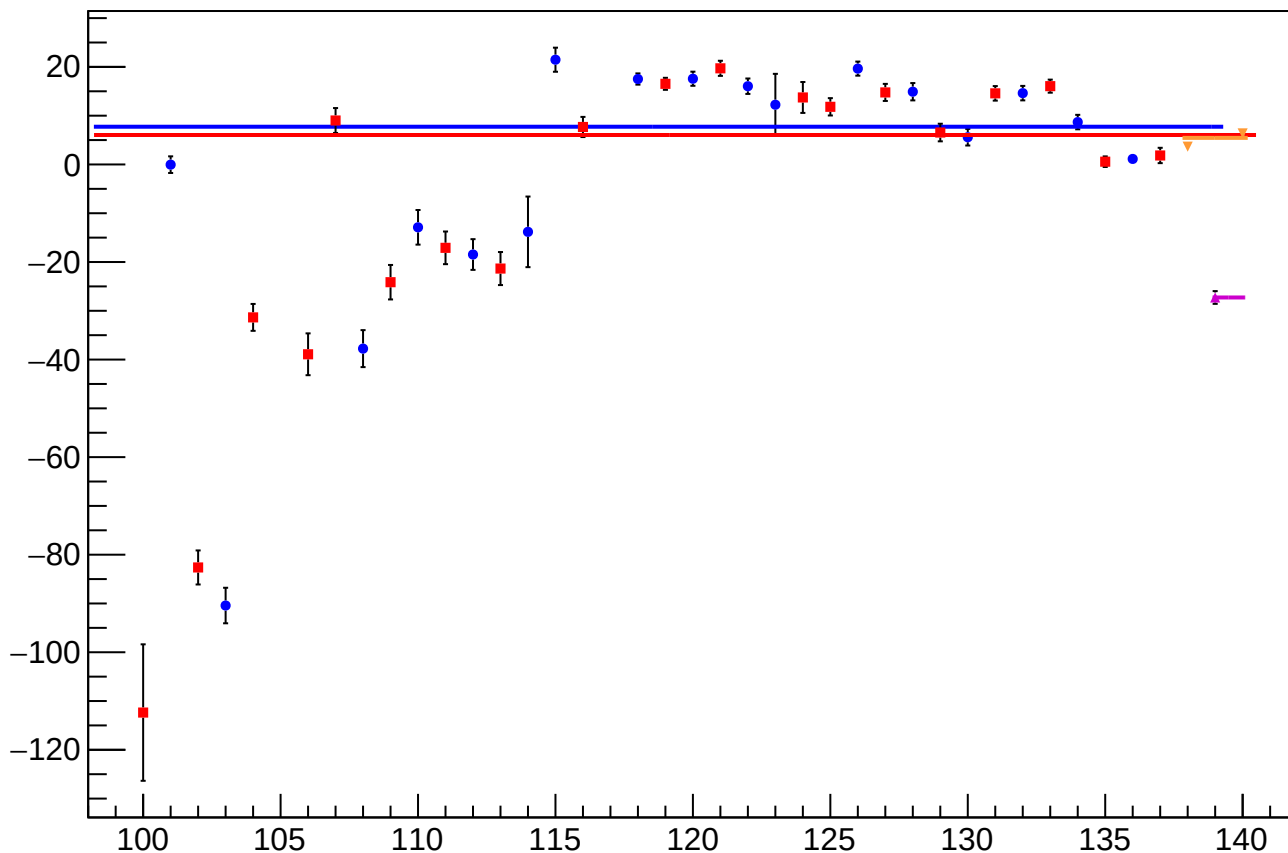
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.279+/-0.718  $\chi^2/\text{NDF}$ : 0.0/0

Out: -17.618+/-0.438  $\chi^2/\text{NDF}$ : 2.4/1

All: -14.004+/-0.374  $\chi^2/\text{NDF}$ : 253.9/2

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.736 \pm 0.403$   $\chi^2/\text{NDF}$ : 1358.4/16

Left Out:  $5.449 \pm 0.378$   $\chi^2/\text{NDF}$ : 11.6/1

Right Out:  $6.040 \pm 0.434$   $\chi^2/\text{NDF}$ : 1512.1/18

Left In:  $-27.271 \pm 1.307$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $2.928 \pm 0.363$   $\chi^2/\text{NDF}$ : 589.9/2

Right:  $6.952 \pm 0.295$   $\chi^2/\text{NDF}$ : 2878.8/35

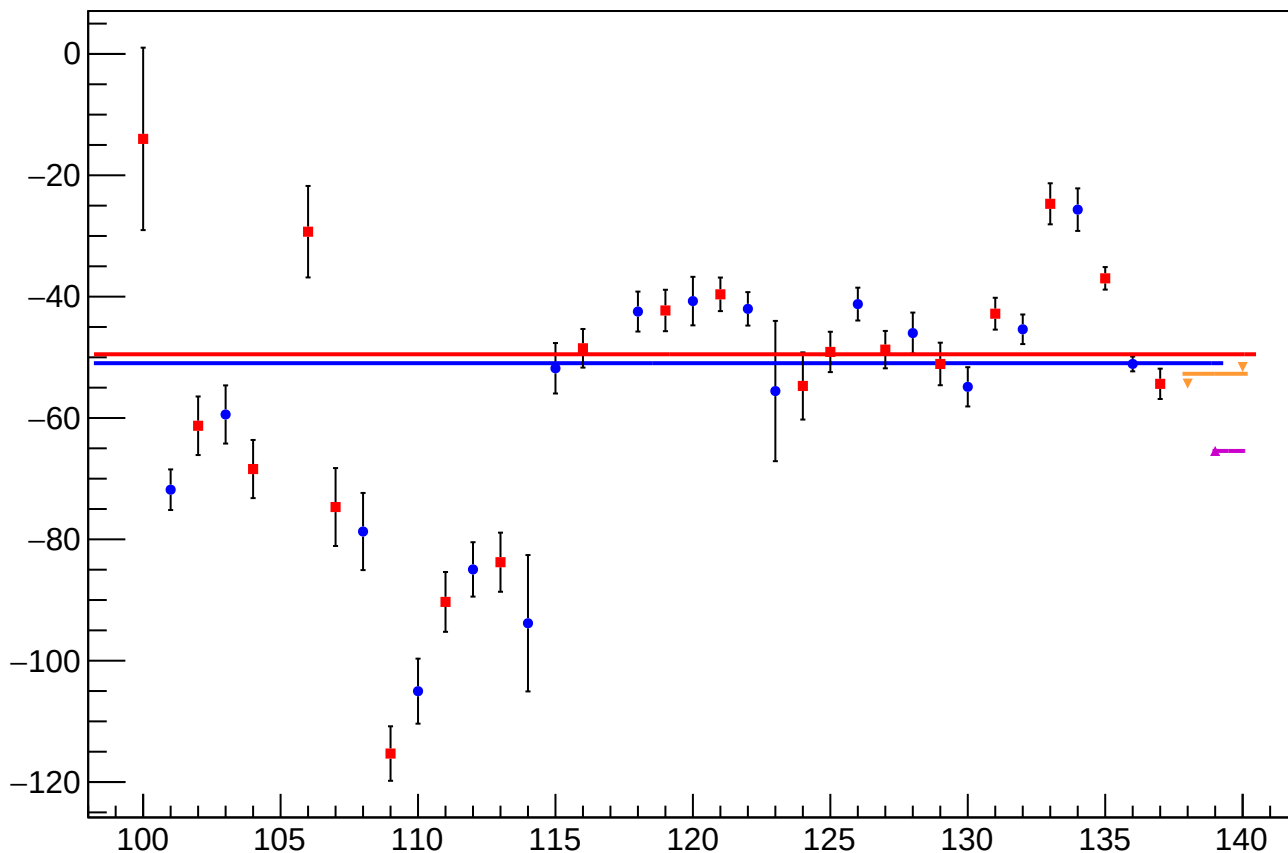
In:  $4.703 \pm 0.385$   $\chi^2/\text{NDF}$ : 2013.5/17

Out:  $5.704 \pm 0.285$   $\chi^2/\text{NDF}$ : 1524.8/20

All:  $5.349 \pm 0.229$   $\chi^2/\text{NDF}$ : 3542.7/38



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:  $-52.712 \pm 0.469$   $\chi^2/\text{NDF}$ : 8.2/1

Right Out:  $-49.497 \pm 0.797$   $\chi^2/\text{NDF}$ : 510.4/18

Left In:  $-65.430 \pm 0.776$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-56.117 \pm 0.402$   $\chi^2/\text{NDF}$ : 204.6/2

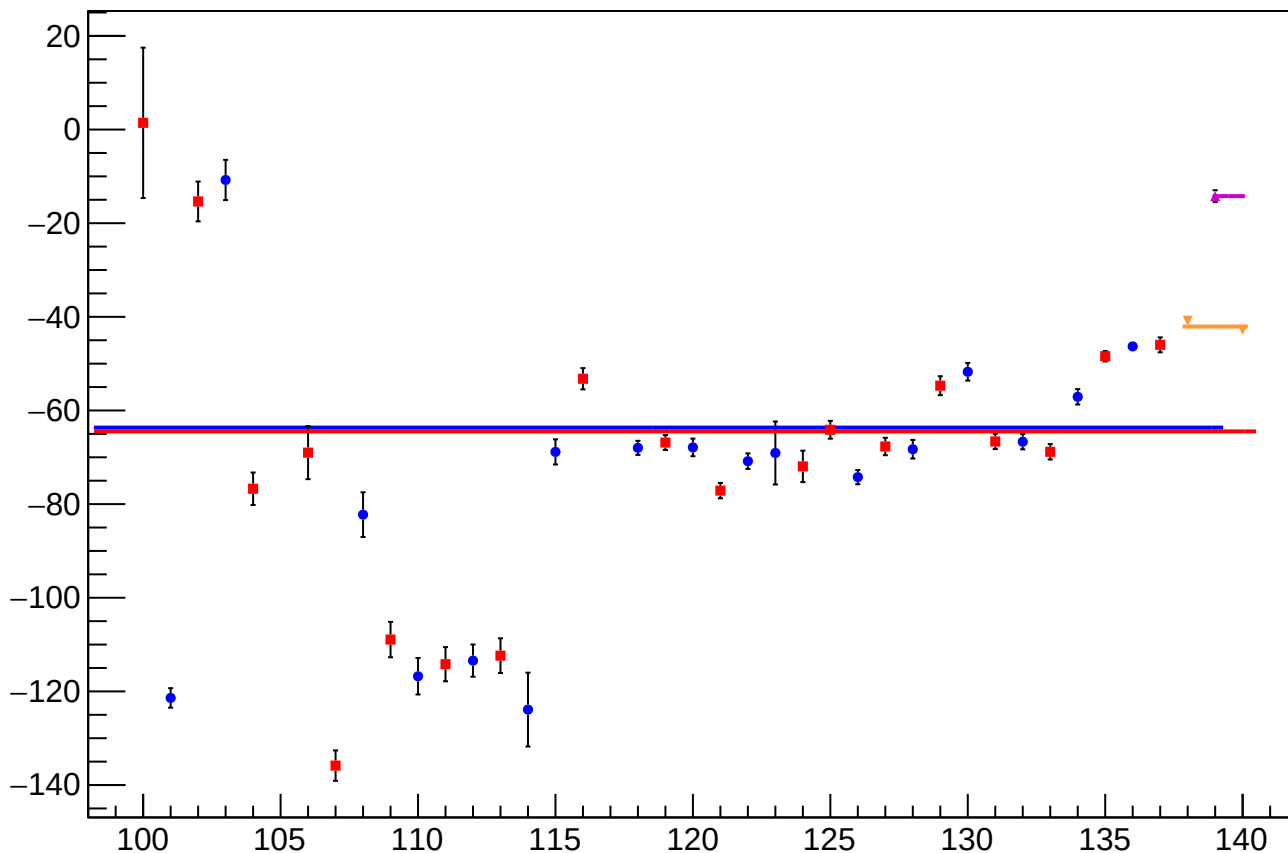
Right:  $-50.288 \pm 0.541$   $\chi^2/\text{NDF}$ : 844.9/35

In:  $-57.828 \pm 0.535$   $\chi^2/\text{NDF}$ : 515.0/17

Out:  $-51.884 \pm 0.405$   $\chi^2/\text{NDF}$ : 530.6/20

All:  $-54.048 \pm 0.323$   $\chi^2/\text{NDF}$ : 1124.2/38

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:  $-42.077 \pm 0.450$   $\chi^2/\text{NDF}$ : 4.3/1

Right Out:  $-64.470 \pm 0.483$   $\chi^2/\text{NDF}$ : 1606.8/18

Left In:  $-14.219 \pm 1.260$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-38.918 \pm 0.424$   $\chi^2/\text{NDF}$ : 438.0/2

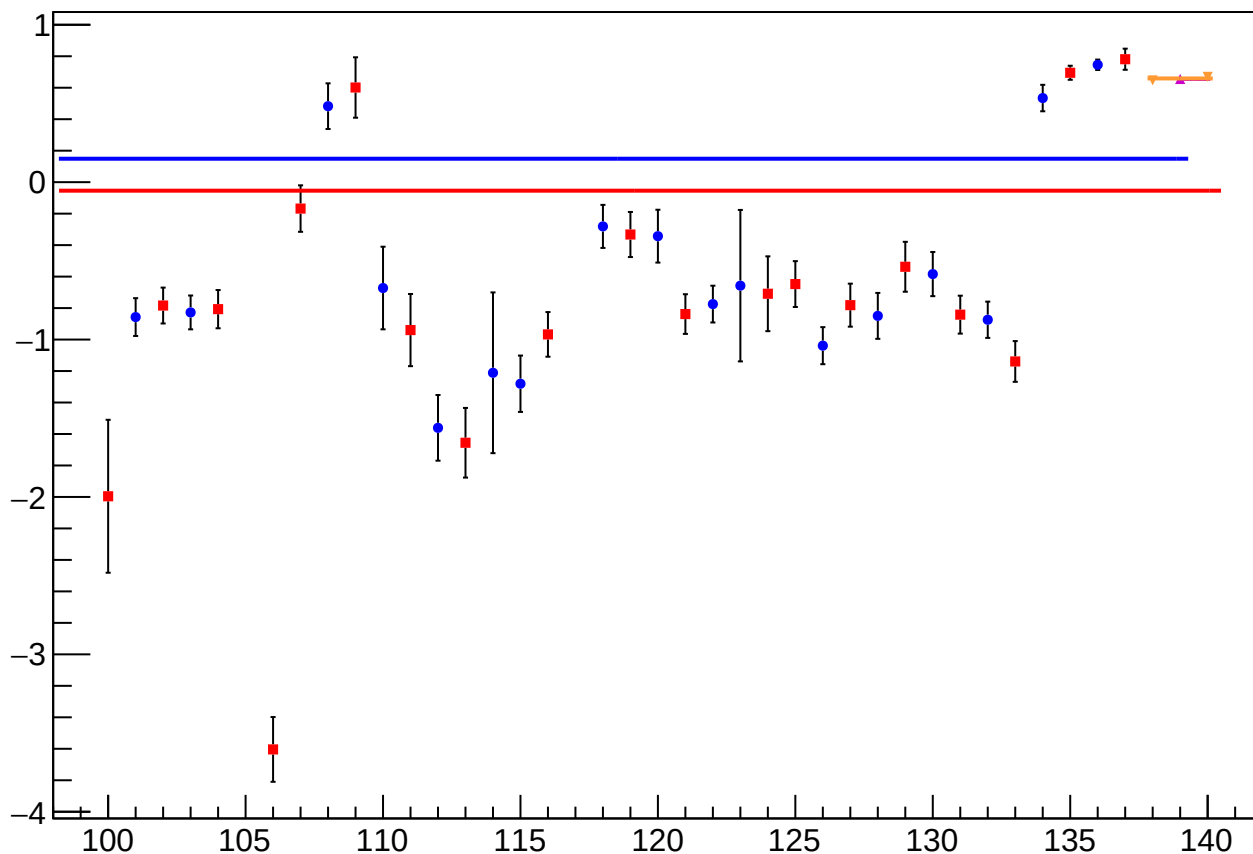
Right:  $-64.030 \pm 0.327$   $\chi^2/\text{NDF}$ : 3623.1/35

In:  $-58.162 \pm 0.420$   $\chi^2/\text{NDF}$ : 3384.1/17

Out:  $-52.505 \pm 0.329$   $\chi^2/\text{NDF}$ : 2761.9/20

All:  $-54.659 \pm 0.259$   $\chi^2/\text{NDF}$ : 6258.4/38

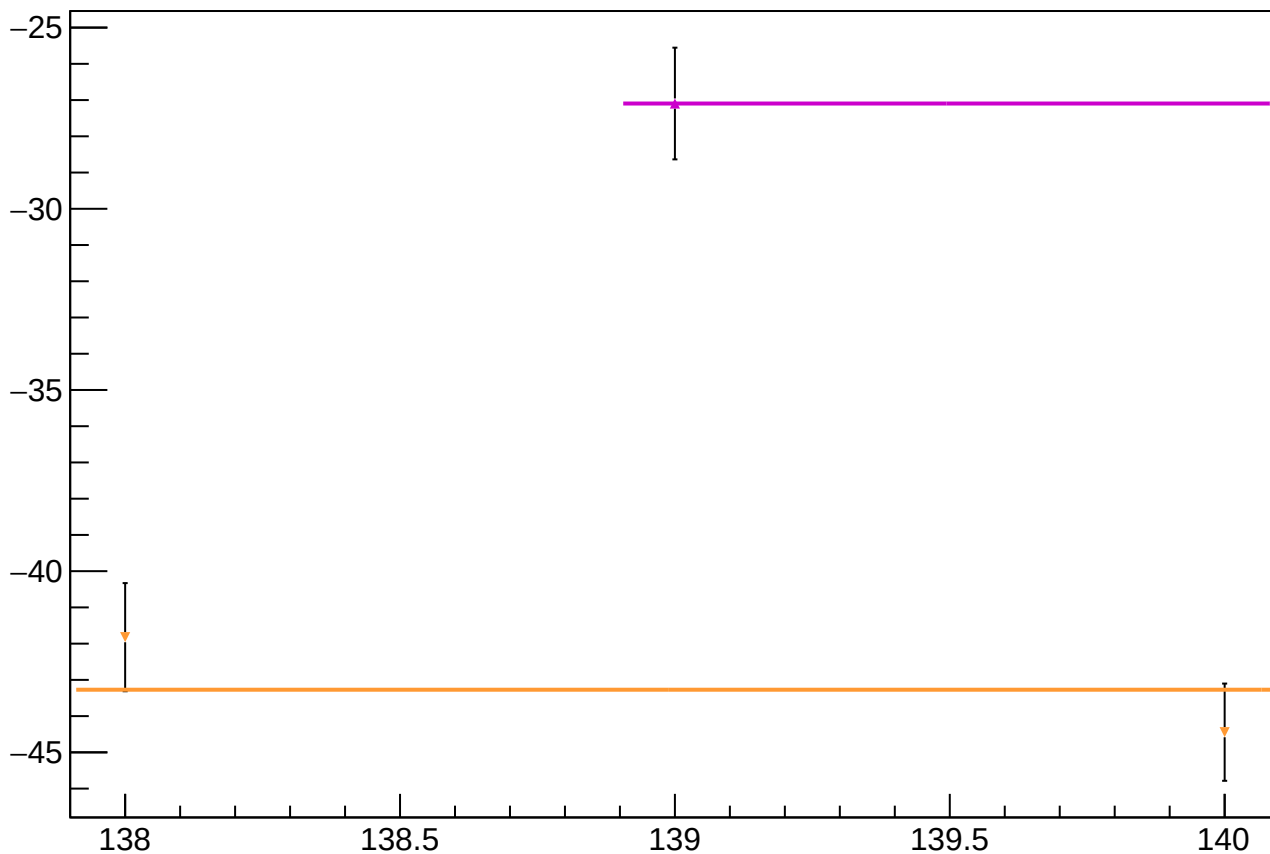
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.149 \pm 0.024$   $\chi^2/\text{NDF}: 989.9/16$   
 Left Out:  $0.659 \pm 0.020$   $\chi^2/\text{NDF}: 0.3/1$   
 Right Out:  $-0.054 \pm 0.026$   $\chi^2/\text{NDF}: 1167.9/18$   
 Left In:  $0.655 \pm 0.028$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.658 \pm 0.016$   $\chi^2/\text{NDF}: 0.3/2$   
 Right:  $0.056 \pm 0.018$   $\chi^2/\text{NDF}: 2190.5/35$   
 In:  $0.367 \pm 0.018$   $\chi^2/\text{NDF}: 1182.3/17$   
 Out:  $0.401 \pm 0.016$   $\chi^2/\text{NDF}: 1641.1/20$   
 All:  $0.387 \pm 0.012$   $\chi^2/\text{NDF}: 2825.4/38$

reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-43.272 \pm 0.998$   $\chi^2/\text{NDF}$ : 1.7/1

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-27.095 \pm 1.541$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-38.495 \pm 0.838$   $\chi^2/\text{NDF}$ : 79.3/2

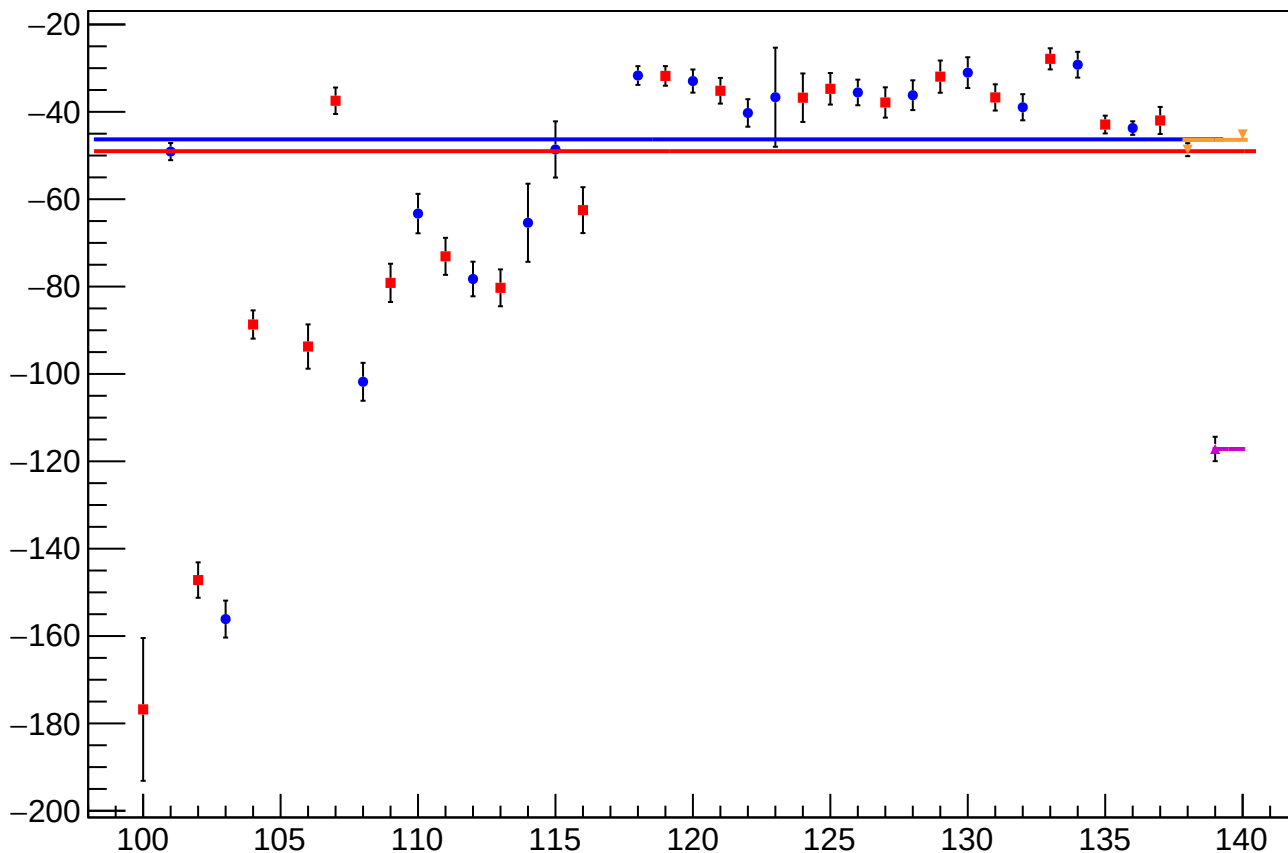
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-27.095 \pm 1.541$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $-43.272 \pm 0.998$   $\chi^2/\text{NDF}$ : 1.7/1

All:  $-38.495 \pm 0.838$   $\chi^2/\text{NDF}$ : 79.3/2

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:  $-46.406 \pm 0.883$   $\chi^2/\text{NDF}: 3.6/1$

Right Out:  $-49.008 \pm 0.764$   $\chi^2/\text{NDF}: 1271.7/18$

Left In:  $-117.175 \pm 2.792$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-52.846 \pm 0.842$   $\chi^2/\text{NDF}: 587.6/2$

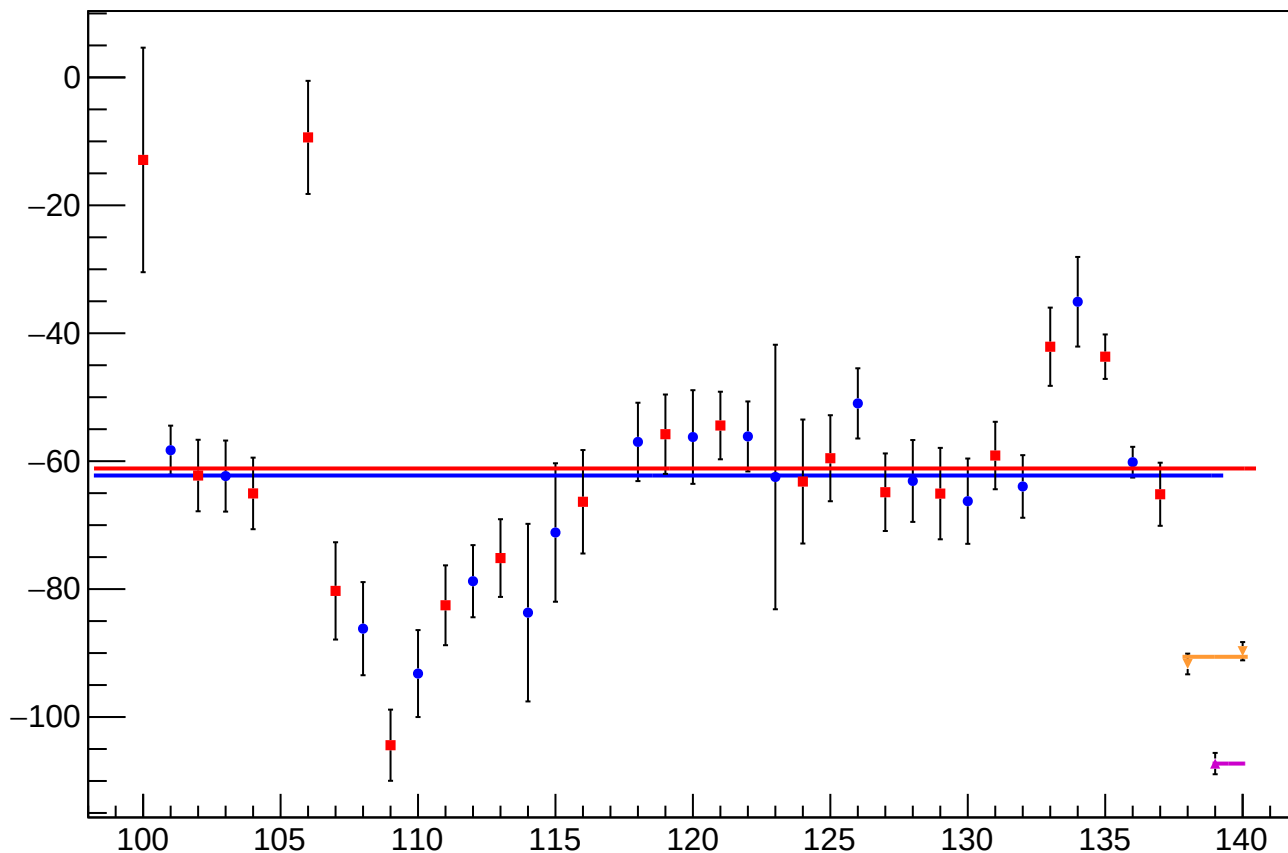
Right:  $-47.580 \pm 0.525$   $\chi^2/\text{NDF}: 2362.3/35$

In:  $-50.751 \pm 0.700$   $\chi^2/\text{NDF}: 1688.0/17$

Out:  $-47.895 \pm 0.578$   $\chi^2/\text{NDF}: 1280.2/20$

All:  $-49.053 \pm 0.446$   $\chi^2/\text{NDF}: 2978.0/38$

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:  $-90.585 \pm 1.071$   $\chi^2/\text{NDF}$ : 0.9/1

Right Out:  $-61.142 \pm 1.379$   $\chi^2/\text{NDF}$ : 165.6/18

Left In:  $-107.280 \pm 1.668$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-95.460 \pm 0.901$   $\chi^2/\text{NDF}$ : 71.8/2

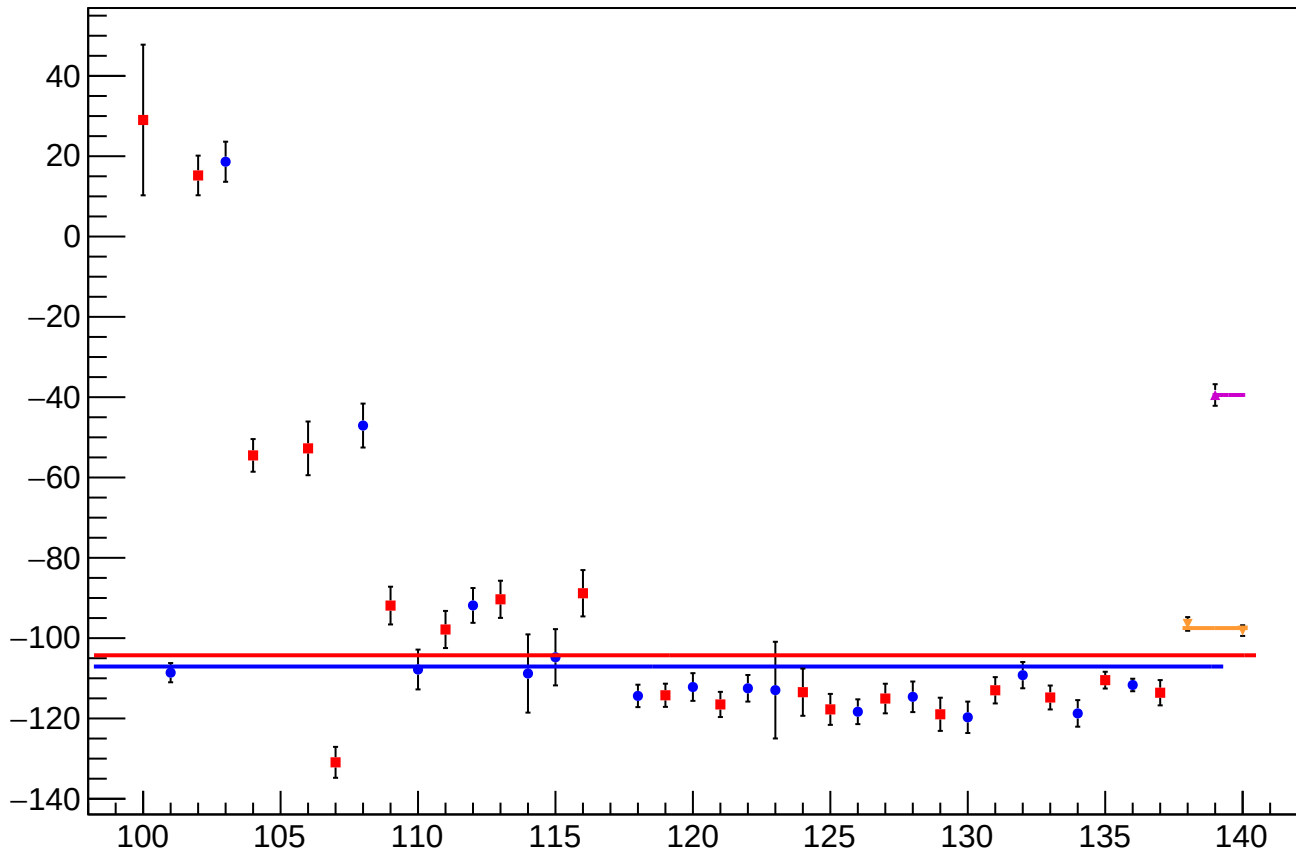
Right:  $-61.720 \pm 0.950$   $\chi^2/\text{NDF}$ : 233.3/35

In:  $-79.432 \pm 1.030$   $\chi^2/\text{NDF}$ : 518.4/17

Out:  $-79.513 \pm 0.846$   $\chi^2/\text{NDF}$ : 450.7/20

All:  $-79.480 \pm 0.654$   $\chi^2/\text{NDF}$ : 969.1/38

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -107.066+/-0.811  $\chi^2/\text{NDF}$ : 828.4/16

Left Out: -97.494+/-1.047  $\chi^2/\text{NDF}$ : 0.6/1

Right Out: -104.269+/-0.861  $\chi^2/\text{NDF}$ : 1018.6/18

Left In: -39.455+/-2.689  $\chi^2/\text{NDF}$ : 0.0/0

Left: -89.854+/-0.976  $\chi^2/\text{NDF}$ : 405.1/2

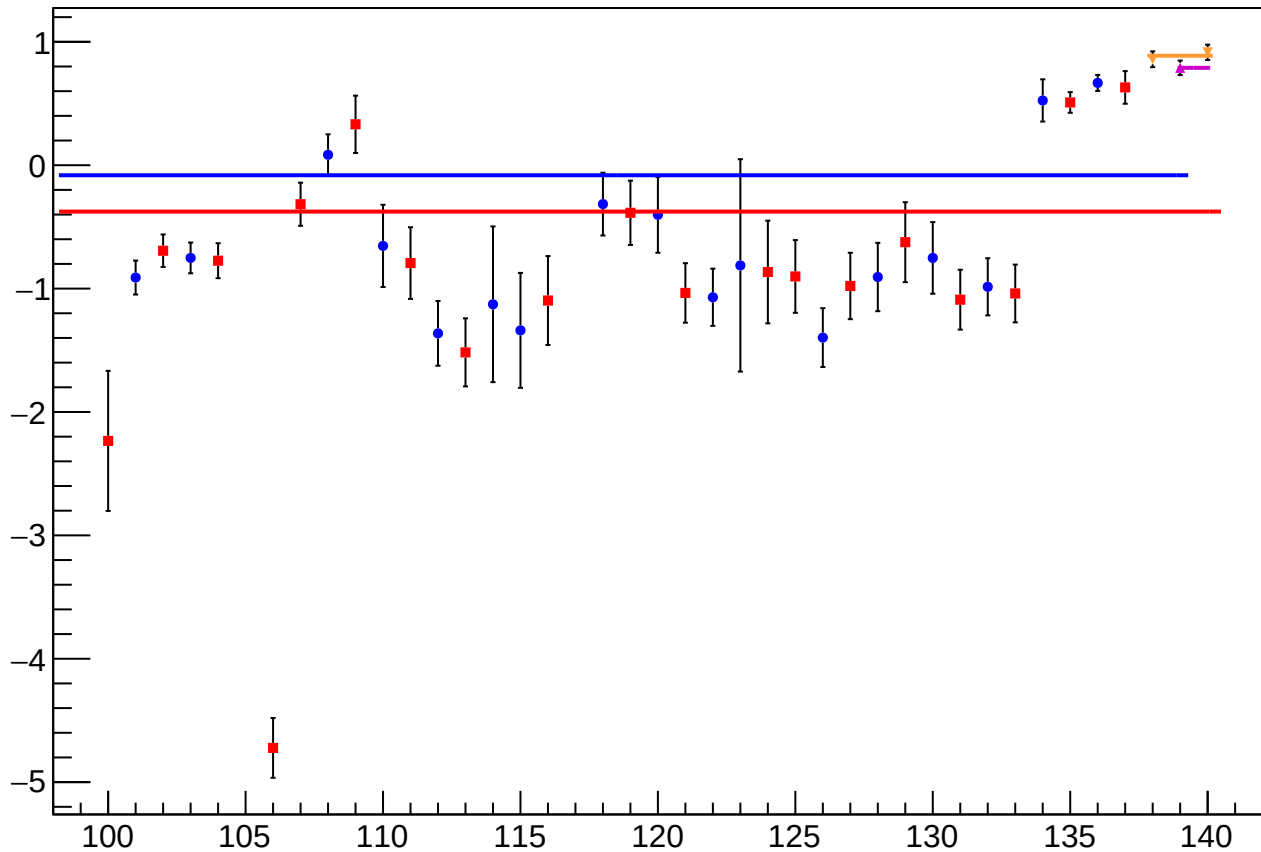
Right: -105.751+/-0.590  $\chi^2/\text{NDF}$ : 1852.6/35

In: -101.426+/-0.777  $\chi^2/\text{NDF}$ : 1407.8/17

Out: -101.536+/-0.665  $\chi^2/\text{NDF}$ : 1044.2/20

All: -101.489+/-0.505  $\chi^2/\text{NDF}$ : 2452.0/38

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:  $0.887 \pm 0.045$   $\chi^2/\text{NDF}$ : 0.4/1

Right Out:  $-0.376 \pm 0.044$   $\chi^2/\text{NDF}$ : 583.0/18

Left In:  $0.789 \pm 0.059$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.852 \pm 0.036$   $\chi^2/\text{NDF}$ : 2.2/2

Right:  $-0.223 \pm 0.030$   $\chi^2/\text{NDF}$ : 935.4/35

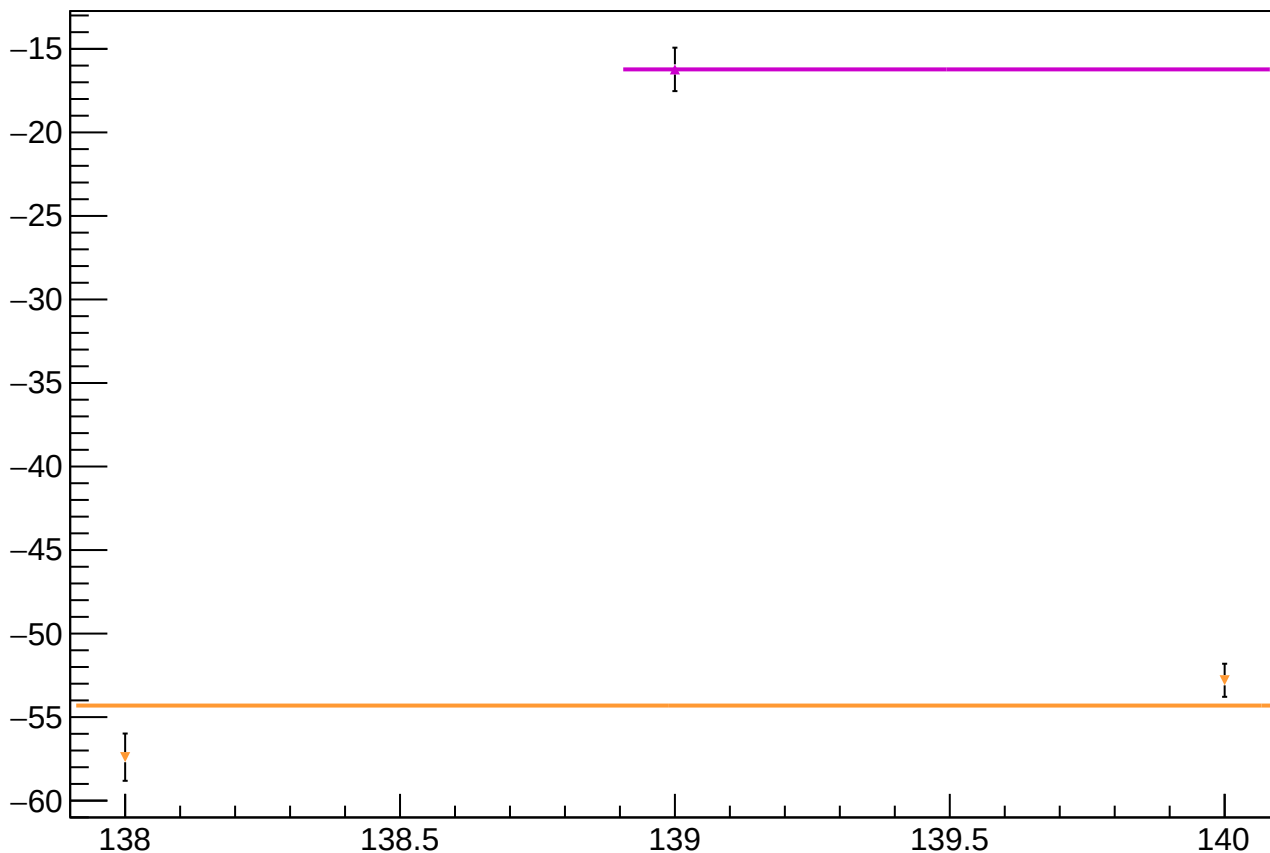
In:  $0.214 \pm 0.034$   $\chi^2/\text{NDF}$ : 473.5/17

Out:  $0.246 \pm 0.031$   $\chi^2/\text{NDF}$ : 991.1/20

All:  $0.231 \pm 0.023$   $\chi^2/\text{NDF}$ : 1465.0/38



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: -54.309+/-0.811  $\chi^2/\text{NDF}$ : 7.1/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -16.228+/-1.300  $\chi^2/\text{NDF}$ : 0.0/0

Left: -43.638+/-0.688  $\chi^2/\text{NDF}$ : 624.6/2

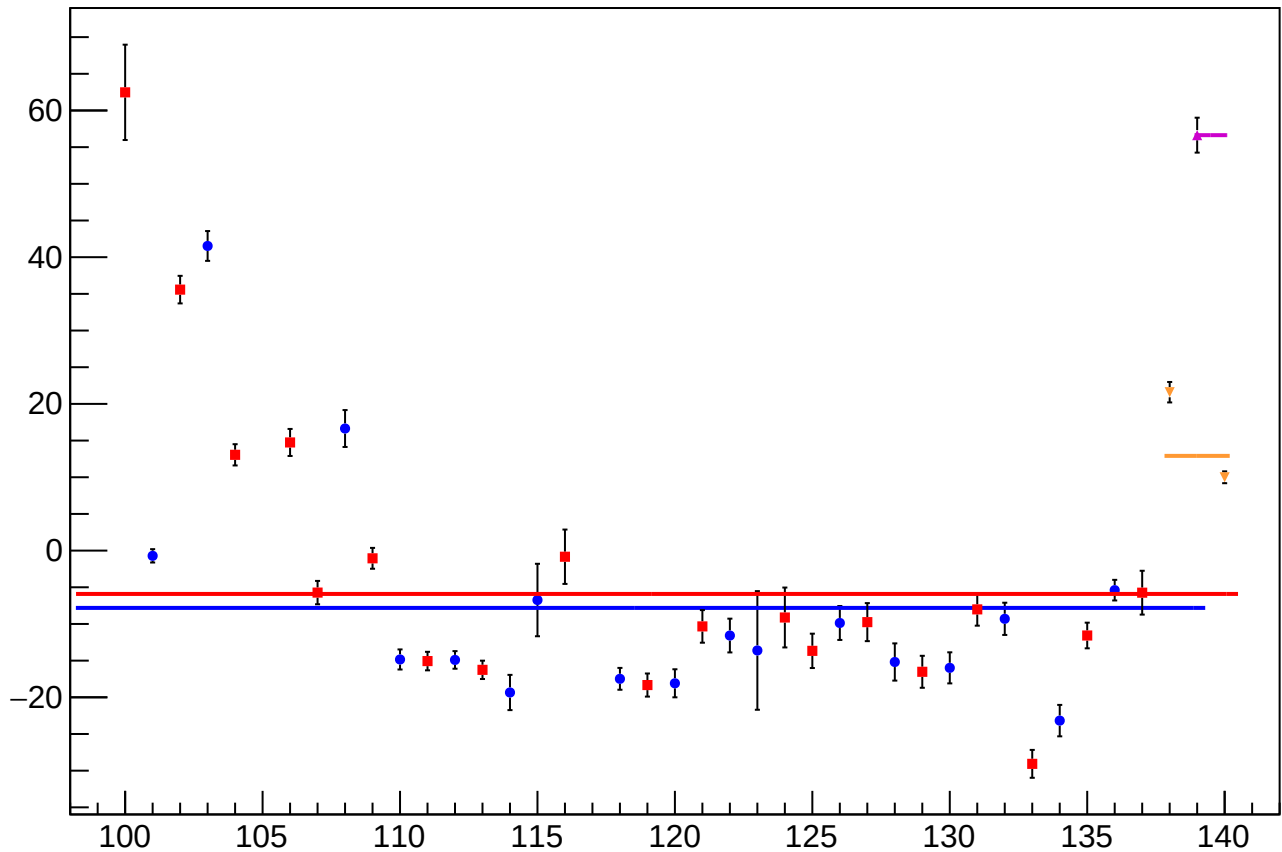
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.228+/-1.300  $\chi^2/\text{NDF}$ : 0.0/0

Out: -54.309+/-0.811  $\chi^2/\text{NDF}$ : 7.1/1

All: -43.638+/-0.688  $\chi^2/\text{NDF}$ : 624.6/2

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:  $12.913 \pm 0.699$   $\chi^2/\text{NDF}$ : 51.8/1

Right Out:  $-5.908 \pm 0.429$   $\chi^2/\text{NDF}$ : 1293.1/18

Left In:  $56.635 \pm 2.381$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $16.385 \pm 0.671$   $\chi^2/\text{NDF}$ : 362.3/2

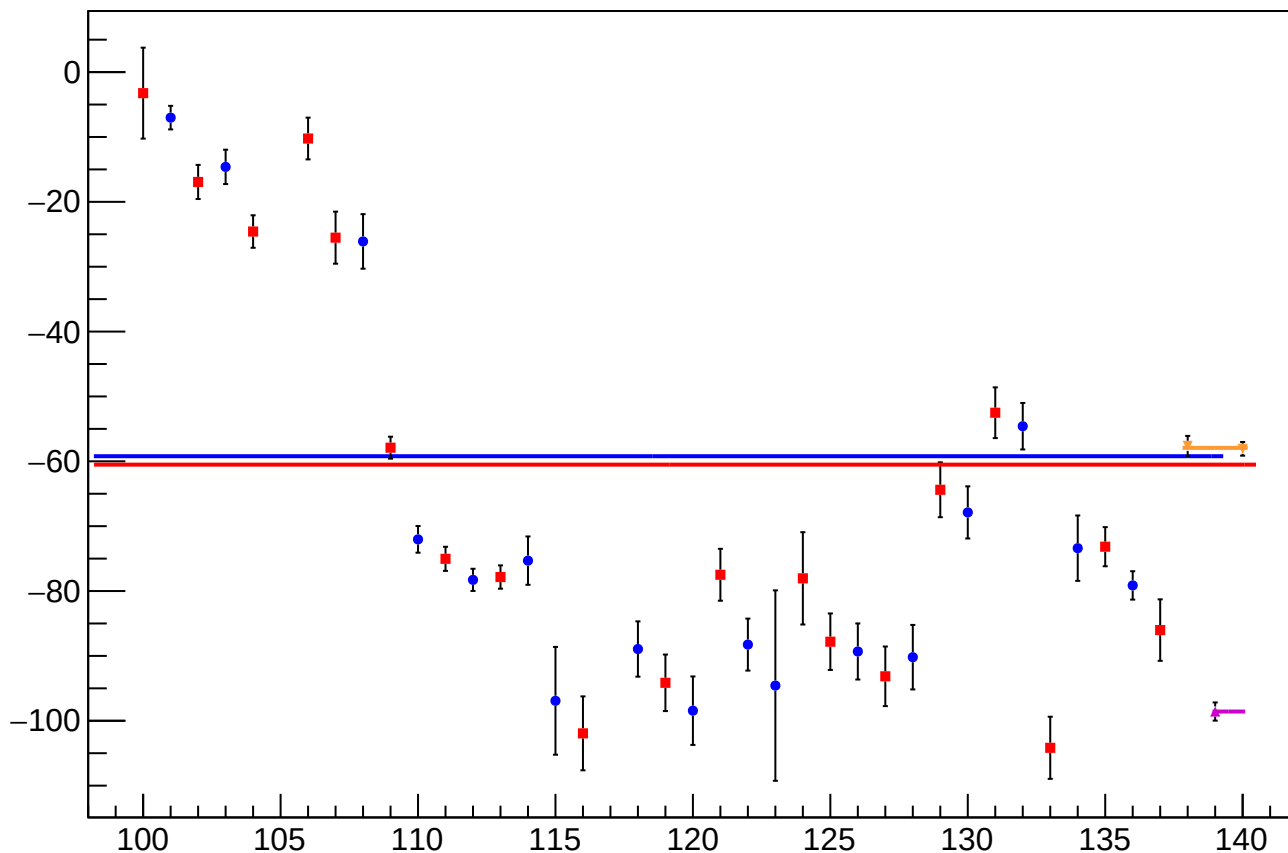
Right:  $-6.864 \pm 0.303$   $\chi^2/\text{NDF}$ : 2285.7/35

In:  $-5.801 \pm 0.421$   $\chi^2/\text{NDF}$ : 1692.8/17

Out:  $-0.758 \pm 0.366$   $\chi^2/\text{NDF}$ : 1871.3/20

All:  $-2.930 \pm 0.276$   $\chi^2/\text{NDF}$ : 3645.9/38

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:  $-57.929 \pm 0.869$   $\chi^2/\text{NDF}$ : 0.1/1

Right Out:  $-60.513 \pm 0.704$   $\chi^2/\text{NDF}$ : 1383.9/18

Left In:  $-98.575 \pm 1.404$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-69.183 \pm 0.739$   $\chi^2/\text{NDF}$ : 605.9/2

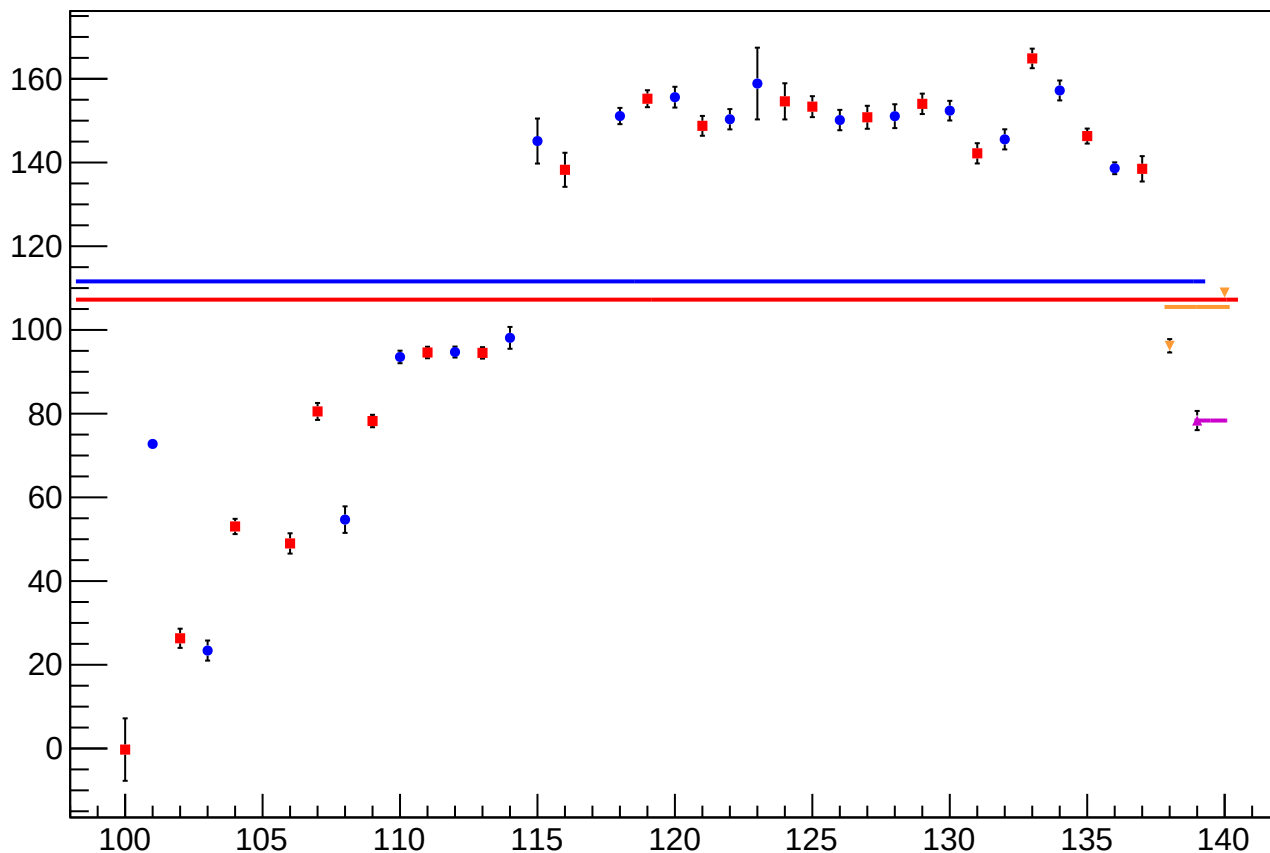
Right:  $-59.899 \pm 0.511$   $\chi^2/\text{NDF}$ : 3105.9/35

In:  $-67.837 \pm 0.657$   $\chi^2/\text{NDF}$ : 2334.0/17

Out:  $-59.488 \pm 0.547$   $\chi^2/\text{NDF}$ : 1389.3/20

All:  $-62.905 \pm 0.420$   $\chi^2/\text{NDF}$ : 3818.6/38

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 111.599±0.487  $\chi^2/\text{NDF}$ : 5959.5/16

Left Out: 105.491±0.834  $\chi^2/\text{NDF}$ :46.0/1

Right Out: 107.238±0.488  $\chi^2/\text{NDF}$ : 7037.4/18

Left In: 78.355±2.295  $\chi^2/\text{NDF}$ :0.0/0

Left: 102.328±0.784  $\chi^2/\text{NDF}$ : 169.5/2

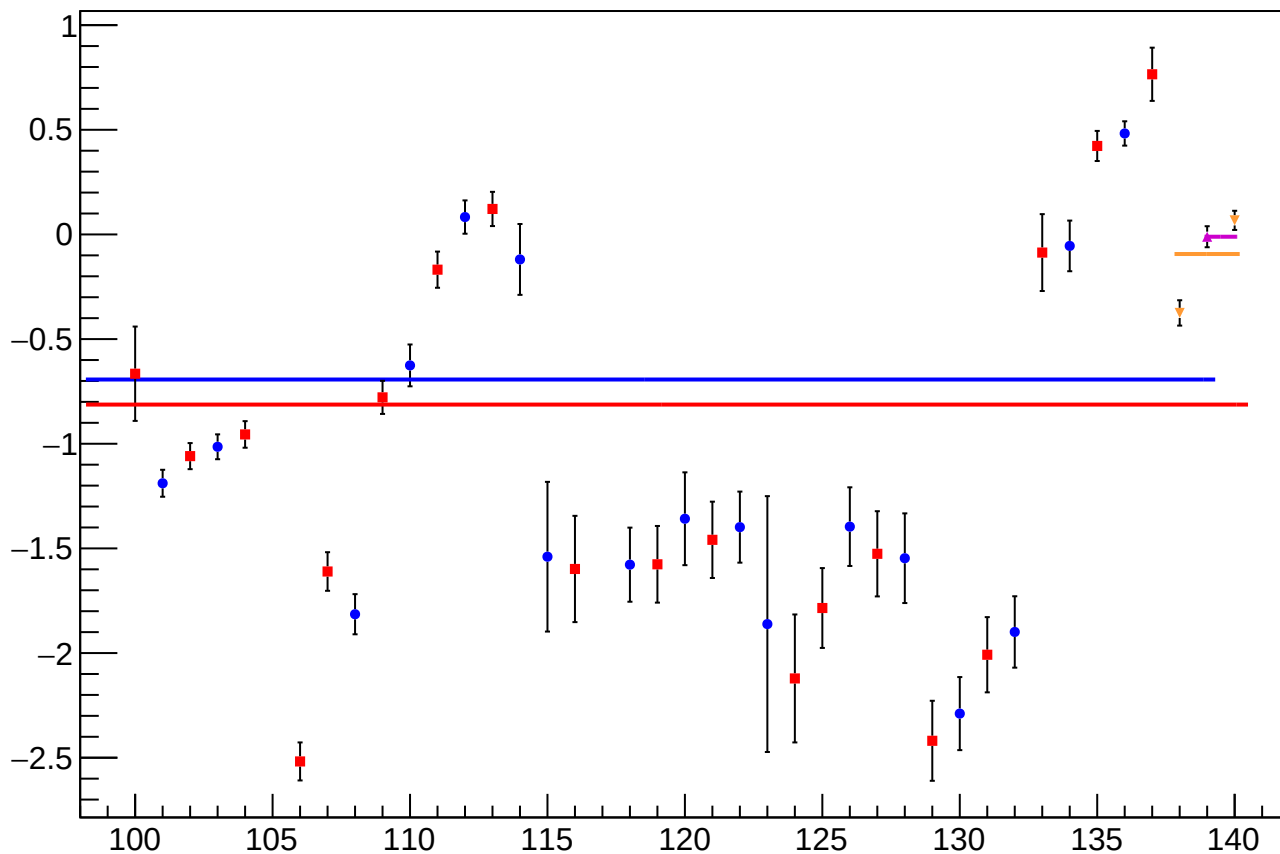
Right: 109.423±0.344  $\chi^2/\text{NDF}$ : 13037.0/35

In: 110.169±0.476  $\chi^2/\text{NDF}$ :6160.3/17

Out: 106.792±0.421  $\chi^2/\text{NDF}$ :7086.7/20

All: 108.274±0.315  $\chi^2/\text{NDF}$ : 13275.2/38

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:  $-0.094 \pm 0.037$   $\chi^2/\text{NDF}$ : 33.9/1

Right Out:  $-0.813 \pm 0.024$   $\chi^2/\text{NDF}$ : 1310.7/18

Left In:  $-0.011 \pm 0.050$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.065 \pm 0.030$   $\chi^2/\text{NDF}$ : 35.7/2

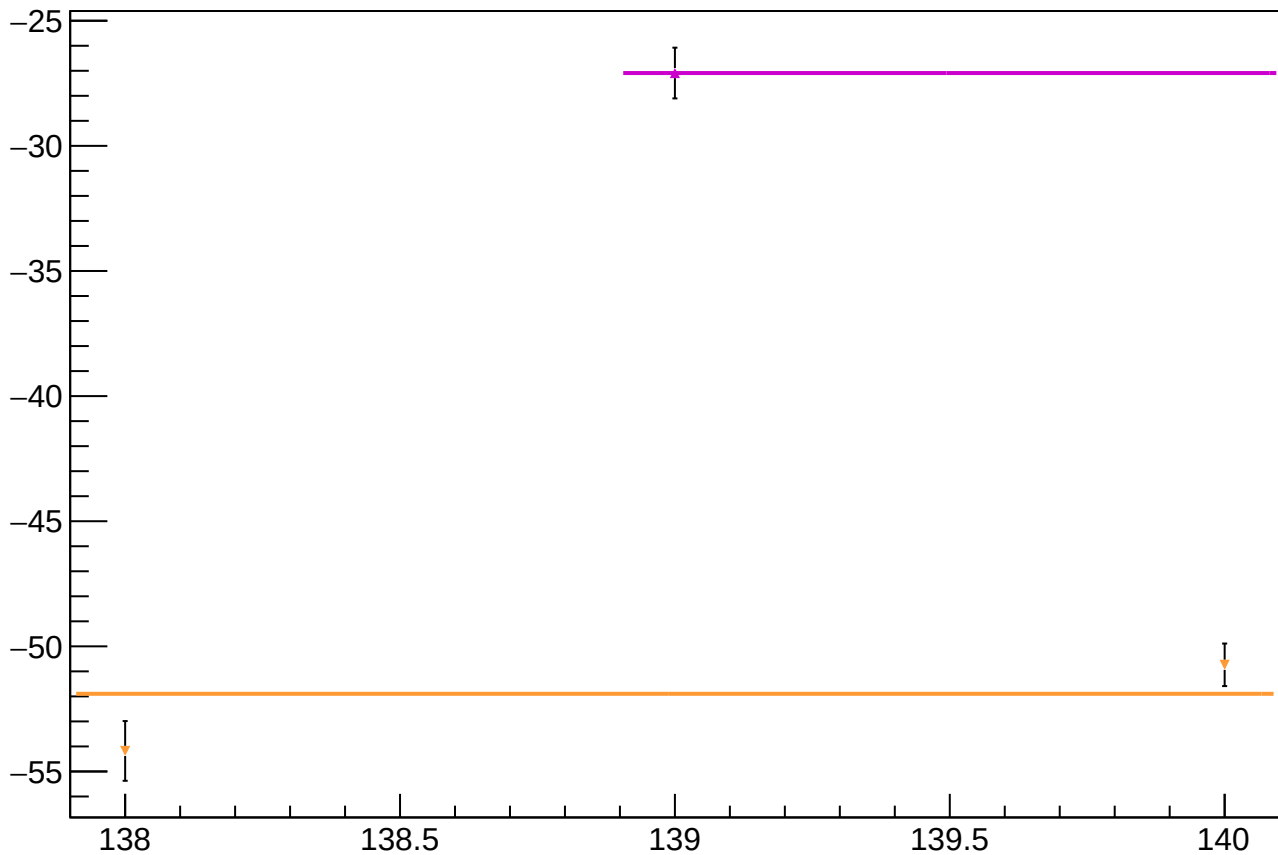
Right:  $-0.756 \pm 0.018$   $\chi^2/\text{NDF}$ : 2315.2/35

In:  $-0.551 \pm 0.023$   $\chi^2/\text{NDF}$ : 1139.2/17

Out:  $-0.592 \pm 0.020$   $\chi^2/\text{NDF}$ : 1613.2/20

All:  $-0.574 \pm 0.015$   $\chi^2/\text{NDF}$ : 2754.2/38

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: -51.896+/-0.692  $\chi^2/\text{NDF}$ : 5.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -27.090+/-1.014  $\chi^2/\text{NDF}$ : 0.0/0

Left: -44.005+/-0.572  $\chi^2/\text{NDF}$ : 413.9/2

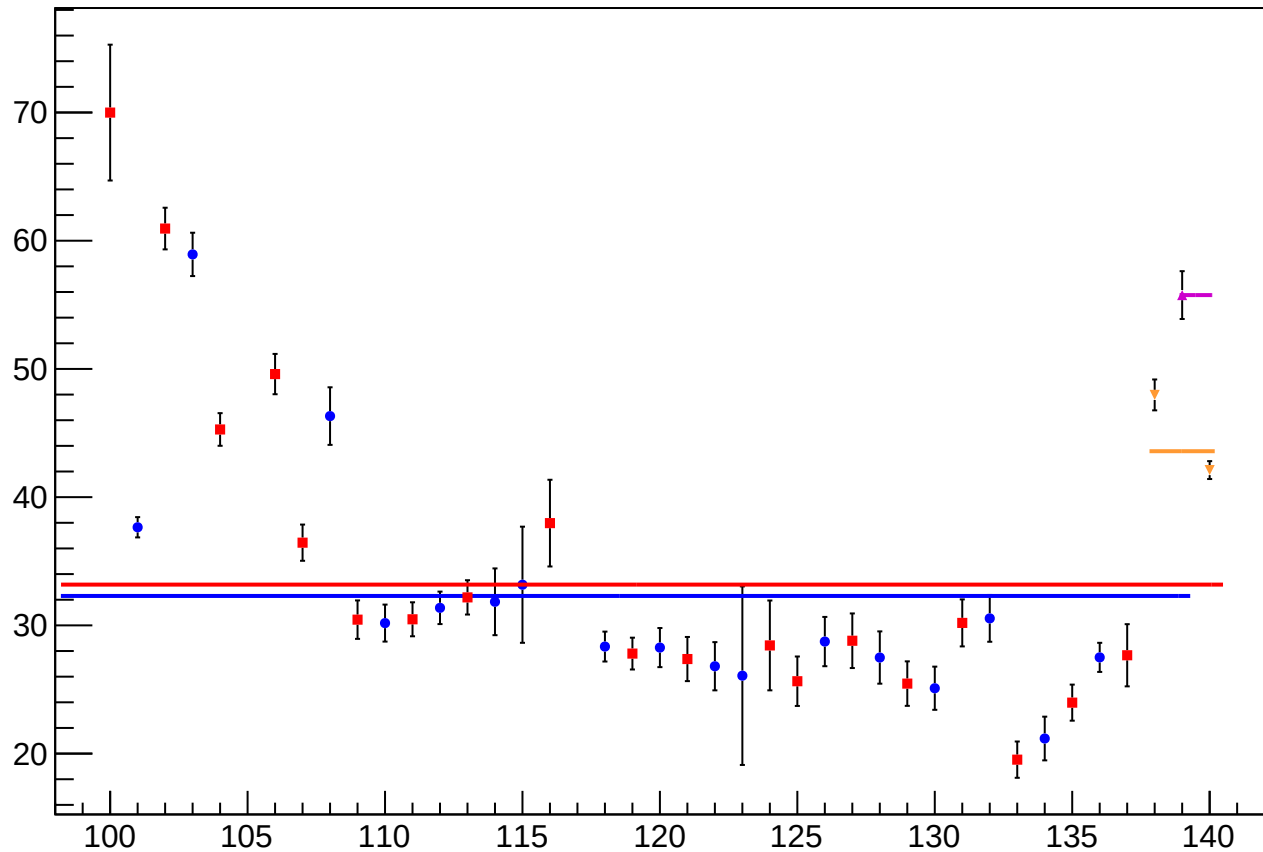
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -27.090+/-1.014  $\chi^2/\text{NDF}$ : 0.0/0

Out: -51.896+/-0.692  $\chi^2/\text{NDF}$ : 5.5/1

All: -44.005+/-0.572  $\chi^2/\text{NDF}$ : 413.9/2

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 32.295 $\pm$ 0.373  $\chi^2$ /NDF: 452.2/16

Left Out: 43.583 $\pm$ 0.604  $\chi^2$ /NDF:17.7/1

Right Out: 33.180 $\pm$ 0.379  $\chi^2$ /NDF: 770.3/18

Left In: 55.759 $\pm$ 1.865  $\chi^2$ /NDF:0.0/0

Left: 44.738 $\pm$ 0.574  $\chi^2$ /NDF: 56.3/2

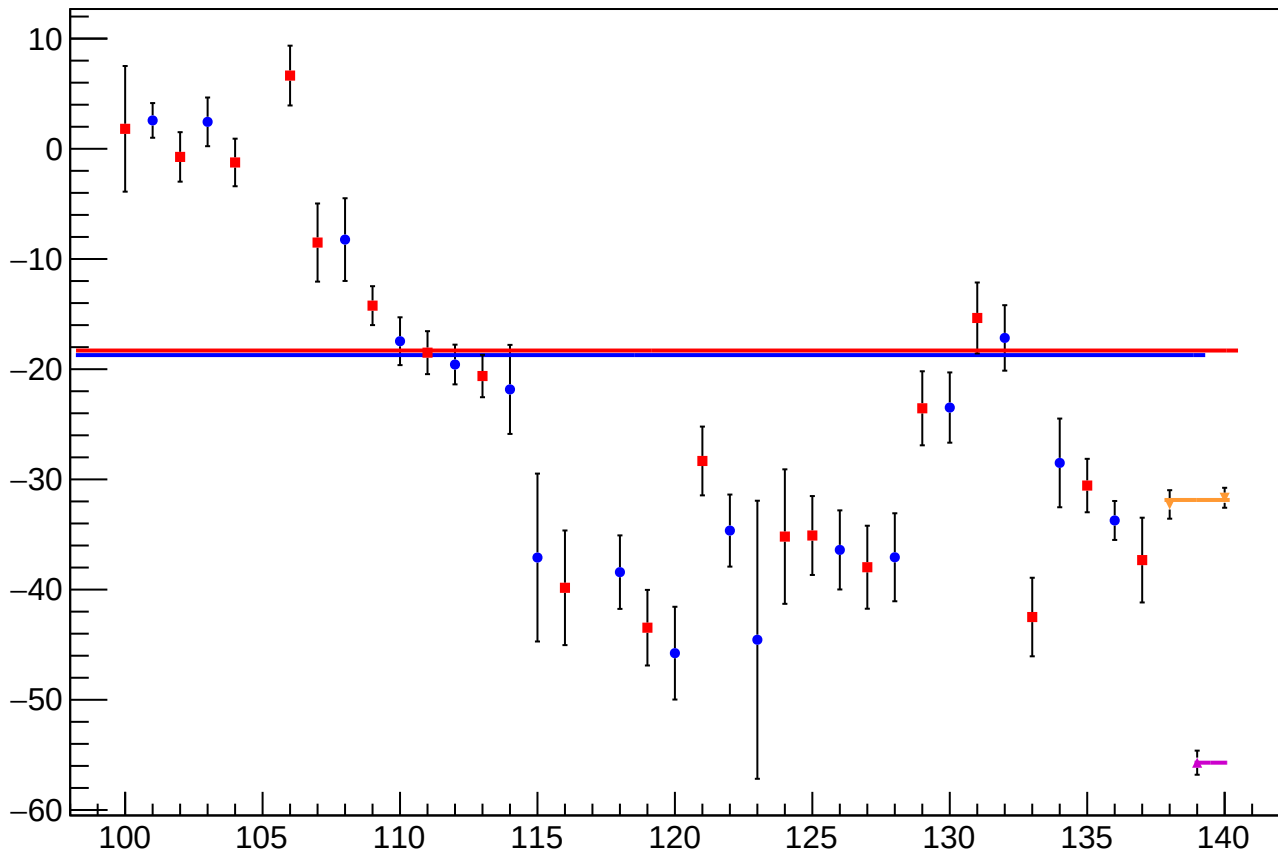
Right: 32.730 $\pm$ 0.266  $\chi^2$ /NDF: 1225.3/35

In: 33.196 $\pm$ 0.365  $\chi^2$ /NDF:604.4/17

Out: 36.123 $\pm$ 0.321  $\chi^2$ /NDF:1001.1/20

All: 34.848 $\pm$ 0.241  $\chi^2$ /NDF: 1641.7/38

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:  $-31.867 \pm 0.742$   $\chi^2/\text{NDF}$ : 0.1/1

Right Out:  $-18.306 \pm 0.644$   $\chi^2/\text{NDF}$ : 472.6/18

Left In:  $-55.707 \pm 1.094$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-39.376 \pm 0.614$   $\chi^2/\text{NDF}$ : 325.4/2

Right:  $-18.506 \pm 0.463$   $\chi^2/\text{NDF}$ : 992.4/35

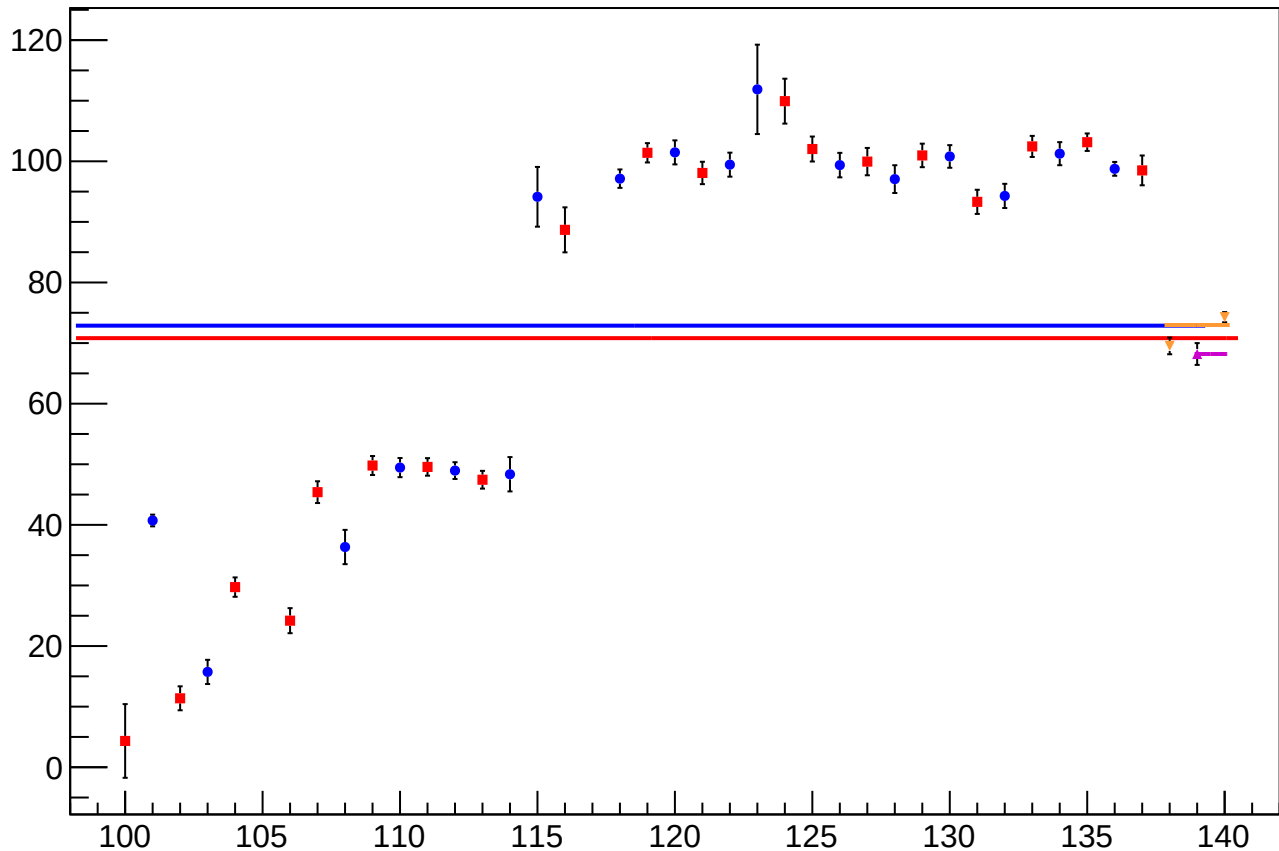
In:  $-28.708 \pm 0.568$   $\chi^2/\text{NDF}$ : 1354.0/17

Out:  $-24.128 \pm 0.486$   $\chi^2/\text{NDF}$ : 663.4/20

All:  $-26.063 \pm 0.369$   $\chi^2/\text{NDF}$ : 2054.8/38



reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.875+/-0.426  $\chi^2/\text{NDF}$ : 4737.9/16

Left Out: 72.984+/-0.718  $\chi^2/\text{NDF}$ : 8.7/1

Right Out: 70.815+/-0.433  $\chi^2/\text{NDF}$ : 5489.3/18

Left In: 68.198+/-1.799  $\chi^2/\text{NDF}$ : 0.0/0

Left: 72.327+/-0.667  $\chi^2/\text{NDF}$ : 14.8/2

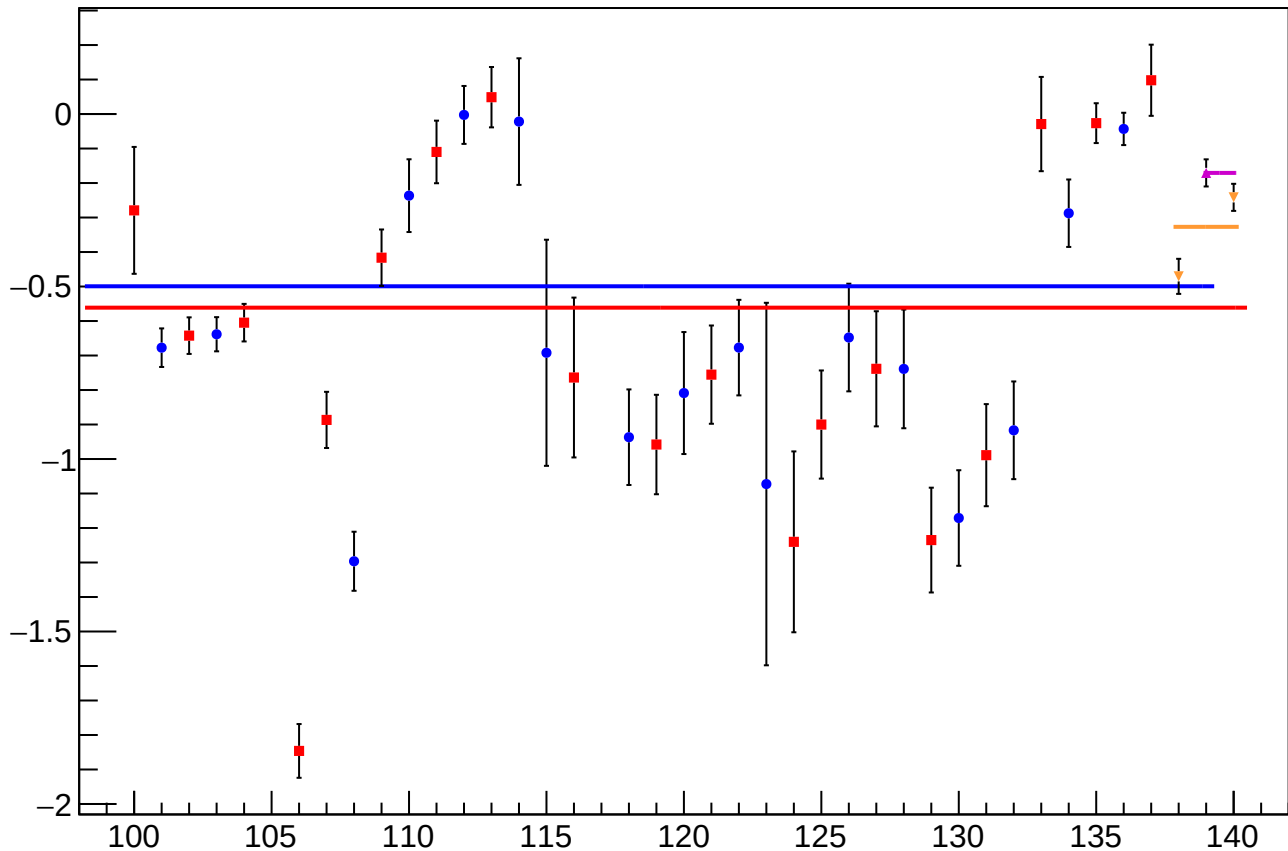
Right: 71.863+/-0.304  $\chi^2/\text{NDF}$ : 10238.7/35

In: 72.627+/-0.414  $\chi^2/\text{NDF}$ : 4744.3/17

Out: 71.395+/-0.371  $\chi^2/\text{NDF}$ : 5504.6/20

All: 71.943+/-0.276  $\chi^2/\text{NDF}$ : 10253.9/38

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:  $-0.327 \pm 0.031$   $\chi^2/\text{NDF}$ : 12.7/1

Right Out:  $-0.561 \pm 0.021$   $\chi^2/\text{NDF}$ : 562.3/18

Left In:  $-0.171 \pm 0.039$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.267 \pm 0.024$   $\chi^2/\text{NDF}$ : 22.5/2

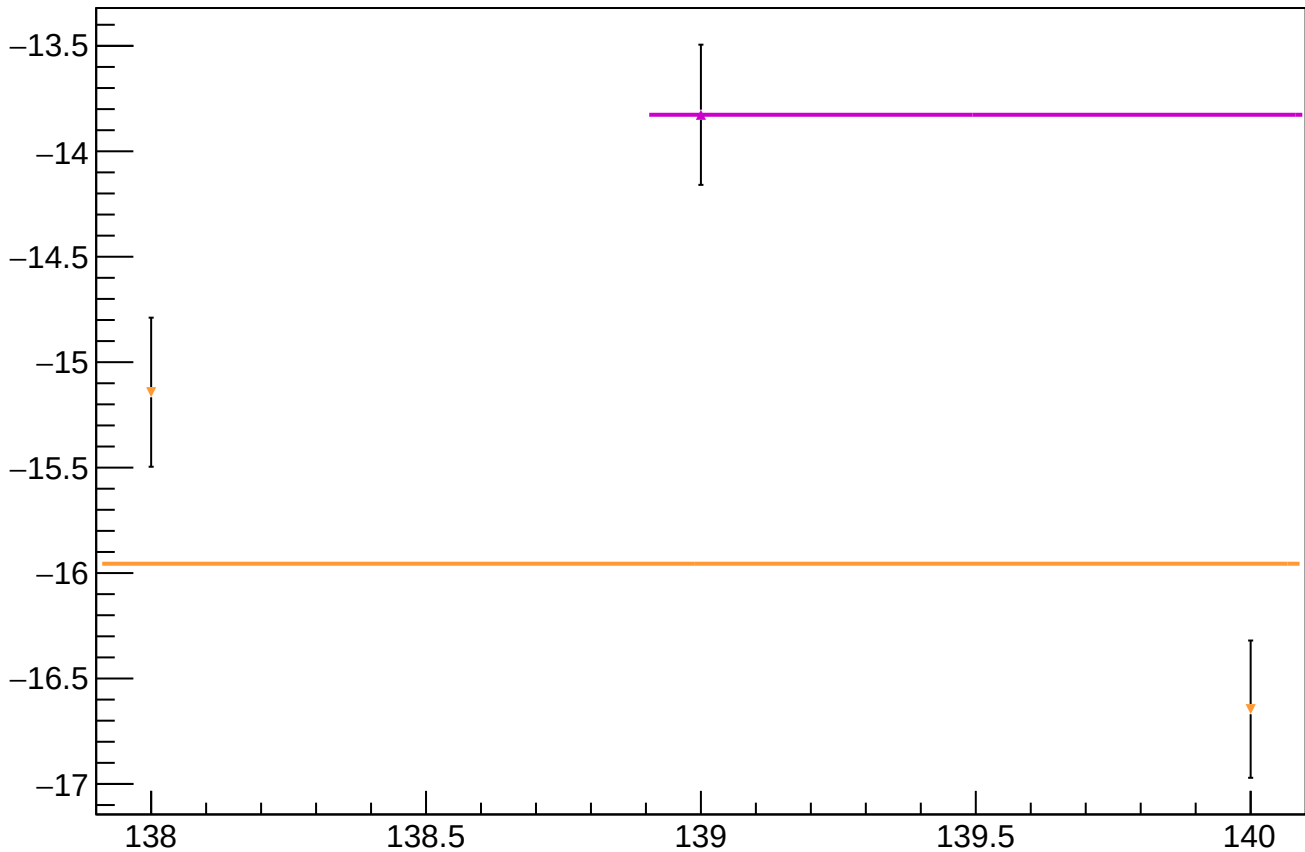
Right:  $-0.532 \pm 0.015$   $\chi^2/\text{NDF}$ : 869.9/35

In:  $-0.419 \pm 0.019$   $\chi^2/\text{NDF}$ : 356.3/17

Out:  $-0.486 \pm 0.018$   $\chi^2/\text{NDF}$ : 613.7/20

All:  $-0.456 \pm 0.013$   $\chi^2/\text{NDF}$ : 976.4/38

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -15.956+/-0.239  $\chi^2/\text{NDF}$ : 9.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -13.827+/-0.332  $\chi^2/\text{NDF}$ : 0.0/0

Left: -15.229+/-0.194  $\chi^2/\text{NDF}$ : 36.8/2

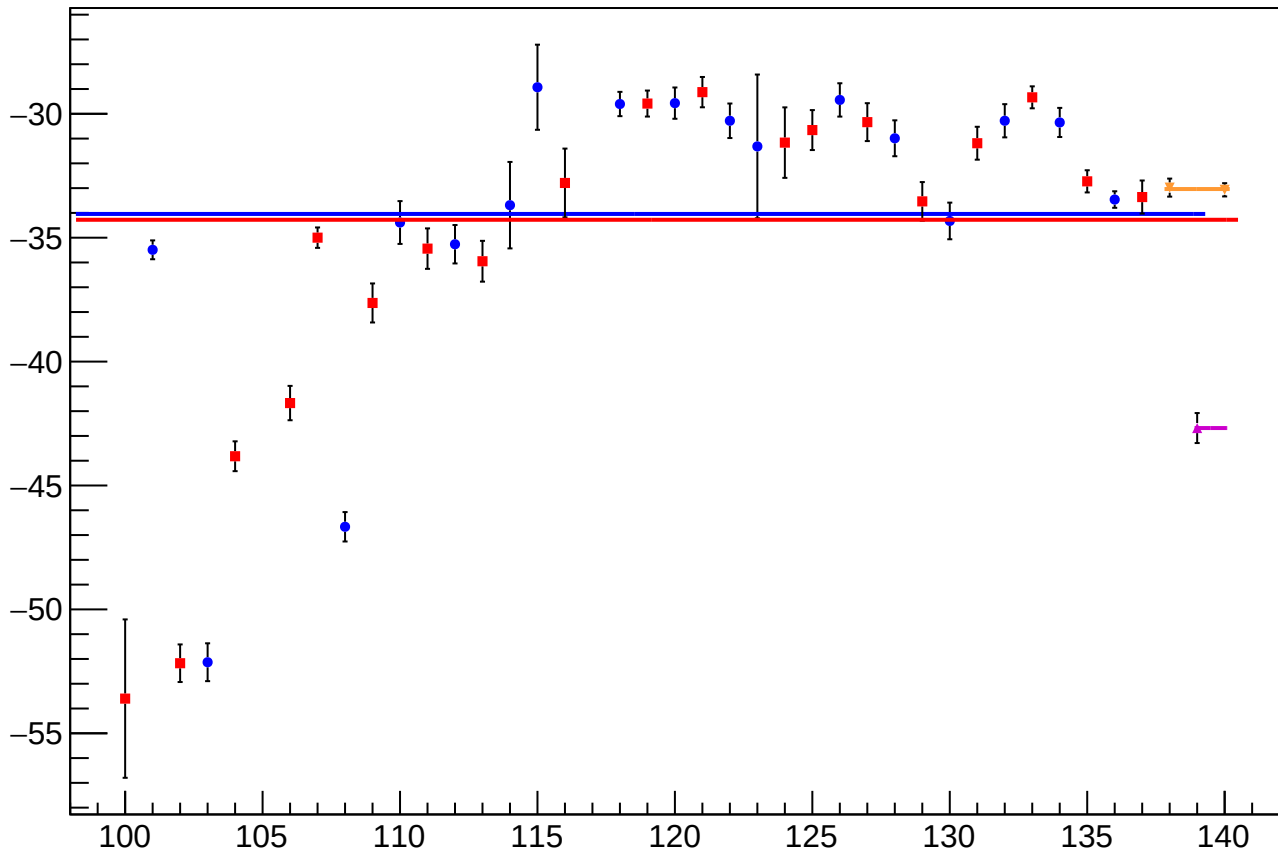
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -13.827+/-0.332  $\chi^2/\text{NDF}$ : 0.0/0

Out: -15.956+/-0.239  $\chi^2/\text{NDF}$ : 9.8/1

All: -15.229+/-0.194  $\chi^2/\text{NDF}$ : 36.8/2

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:  $-33.036 \pm 0.216$   $\chi^2/\text{NDF}$ : 0.0/1

Right Out:  $-34.277 \pm 0.151$   $\chi^2/\text{NDF}$ : 1349.5/18

Left In:  $-42.682 \pm 0.605$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-34.122 \pm 0.203$   $\chi^2/\text{NDF}$ : 225.3/2

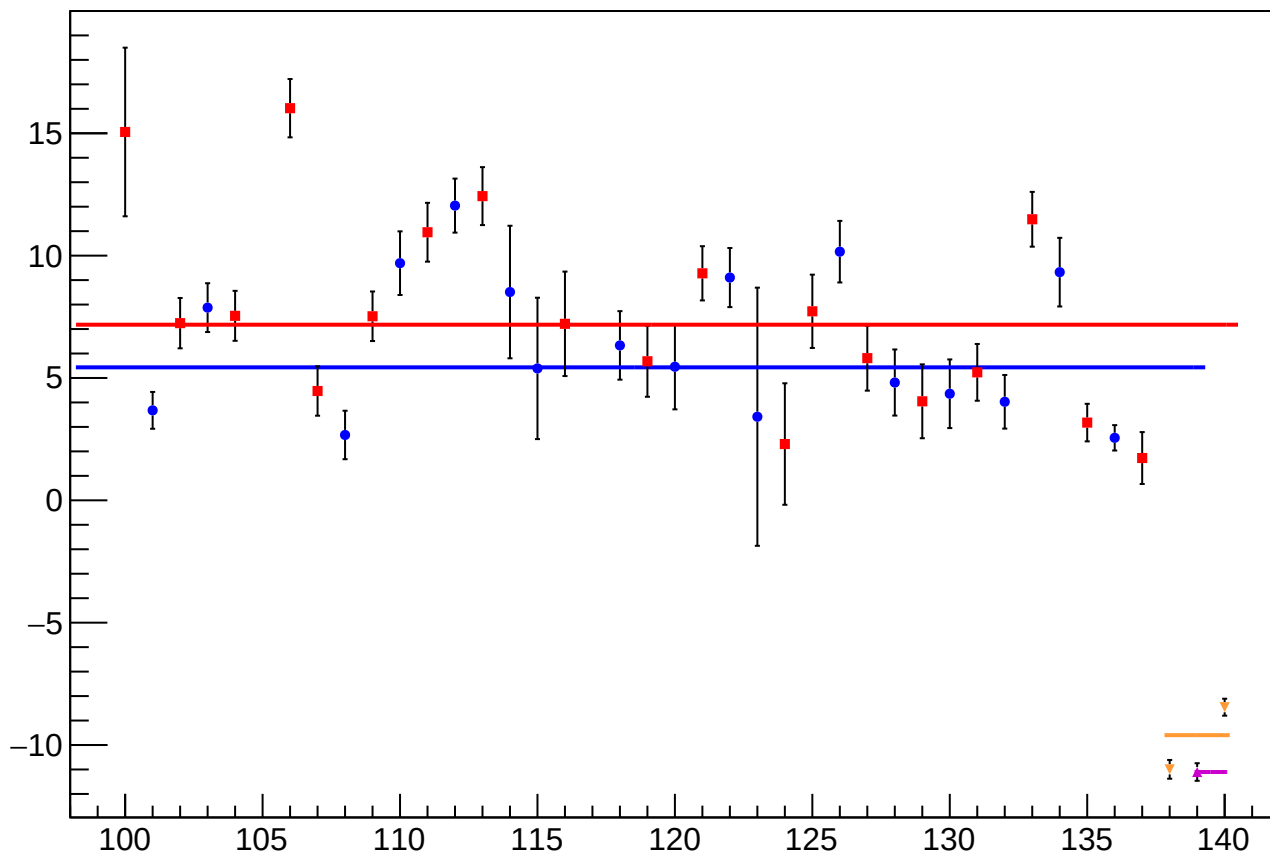
Right:  $-34.159 \pm 0.107$   $\chi^2/\text{NDF}$ : 2691.4/35

In:  $-34.546 \pm 0.146$   $\chi^2/\text{NDF}$ : 1532.5/17

Out:  $-33.869 \pm 0.124$   $\chi^2/\text{NDF}$ : 1371.7/20

All:  $-34.151 \pm 0.094$   $\chi^2/\text{NDF}$ : 2916.7/38

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:  $-9.597 \pm 0.257$   $\chi^2/\text{NDF}$ : 24.1/1

Right Out:  $7.177 \pm 0.274$   $\chi^2/\text{NDF}$ : 182.6/18

Left In:  $-11.103 \pm 0.359$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-10.107 \pm 0.209$   $\chi^2/\text{NDF}$ : 35.8/2

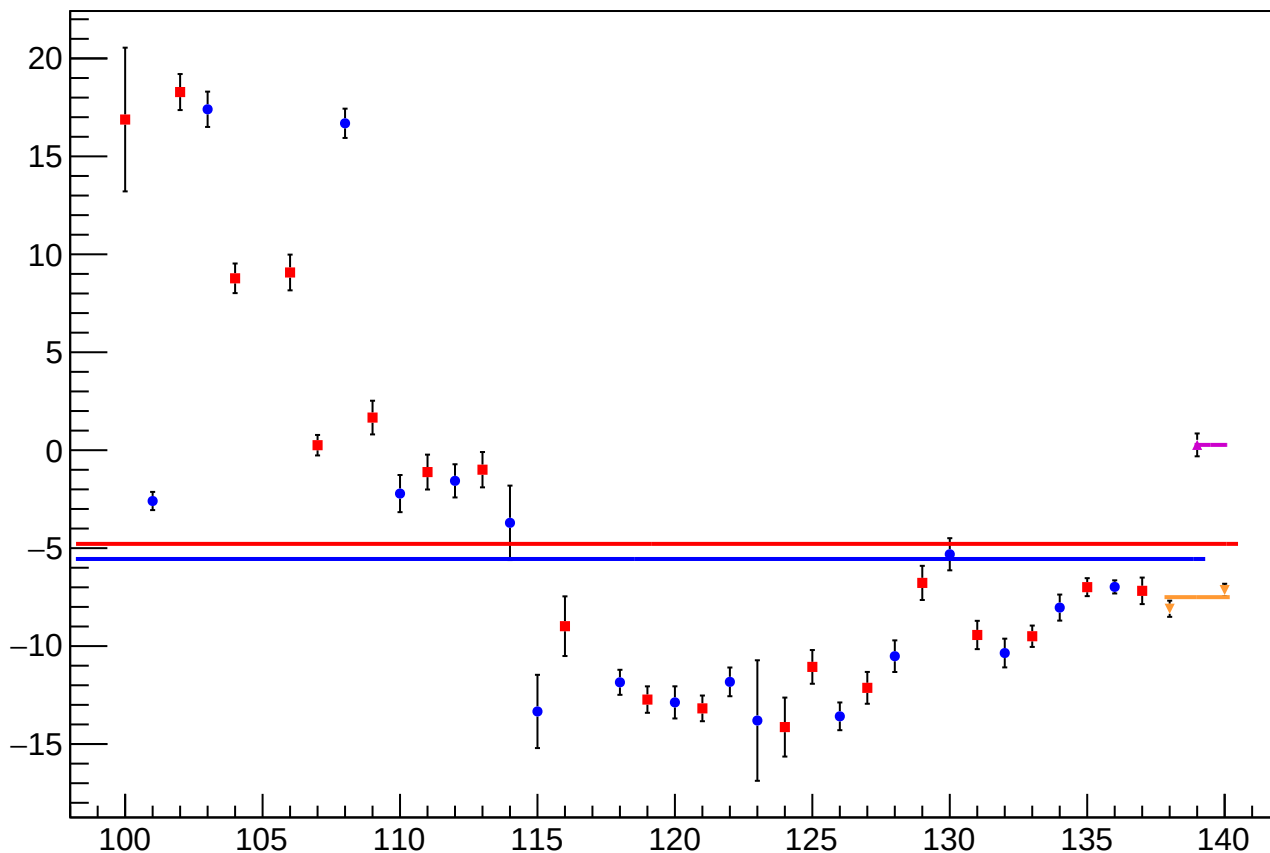
Right:  $6.291 \pm 0.192$   $\chi^2/\text{NDF}$ : 335.1/35

In:  $-0.521 \pm 0.216$   $\chi^2/\text{NDF}$ : 1487.6/17

Out:  $-1.748 \pm 0.188$   $\chi^2/\text{NDF}$ : 2198.4/20

All:  $-1.220 \pm 0.142$   $\chi^2/\text{NDF}$ : 3704.4/38

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:  $-7.502 \pm 0.254$   $\chi^2/\text{NDF}$ : 3.3/1

Right Out:  $-4.782 \pm 0.173$   $\chi^2/\text{NDF}$ : 2040.4/18

Left In:  $0.271 \pm 0.583$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-6.260 \pm 0.233$   $\chi^2/\text{NDF}$ : 152.5/2

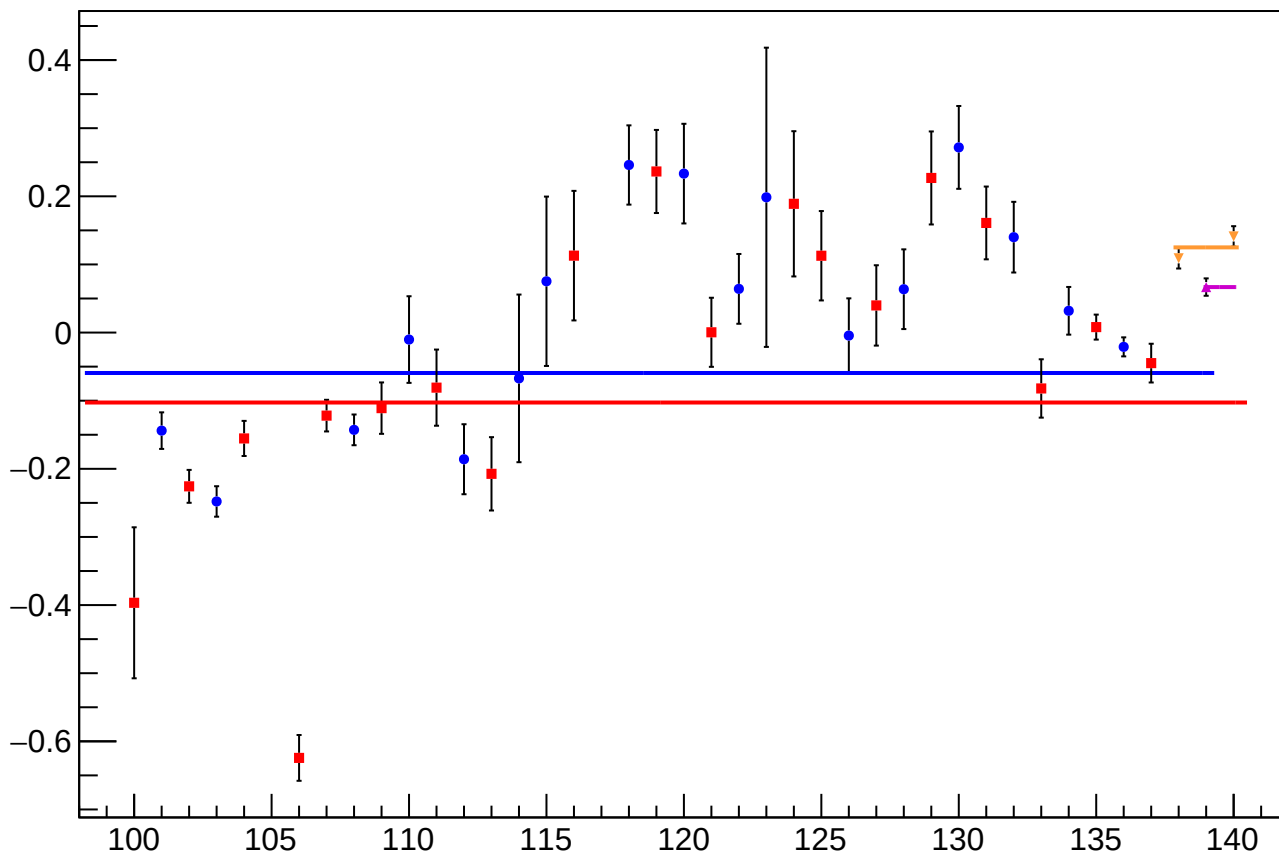
Right:  $-5.174 \pm 0.121$   $\chi^2/\text{NDF}$ : 4175.8/35

In:  $-5.098 \pm 0.163$   $\chi^2/\text{NDF}$ : 2217.2/17

Out:  $-5.641 \pm 0.143$   $\chi^2/\text{NDF}$ : 2121.9/20

All:  $-5.405 \pm 0.107$   $\chi^2/\text{NDF}$ : 4345.4/38

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:  $0.125 \pm 0.011$   $\chi^2/\text{NDF}$ : 2.3/1

Right Out:  $-0.103 \pm 0.008$   $\chi^2/\text{NDF}$ : 435.5/18

Left In:  $0.067 \pm 0.013$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 14.6/2

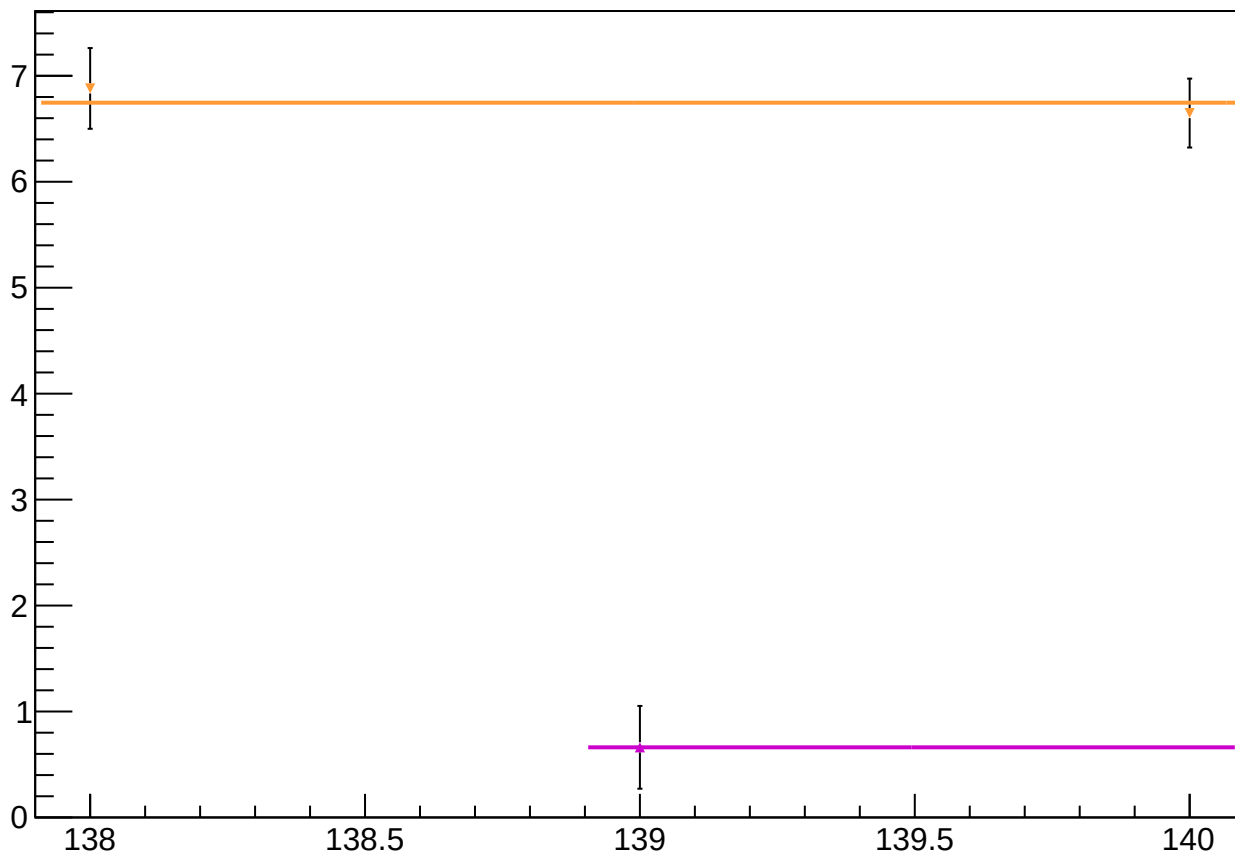
Right:  $-0.081 \pm 0.006$   $\chi^2/\text{NDF}$ : 666.4/35

In:  $-0.021 \pm 0.007$   $\chi^2/\text{NDF}$ : 285.8/17

Out:  $-0.015 \pm 0.007$   $\chi^2/\text{NDF}$ : 720.2/20

All:  $-0.018 \pm 0.005$   $\chi^2/\text{NDF}$ : 1006.4/38

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected

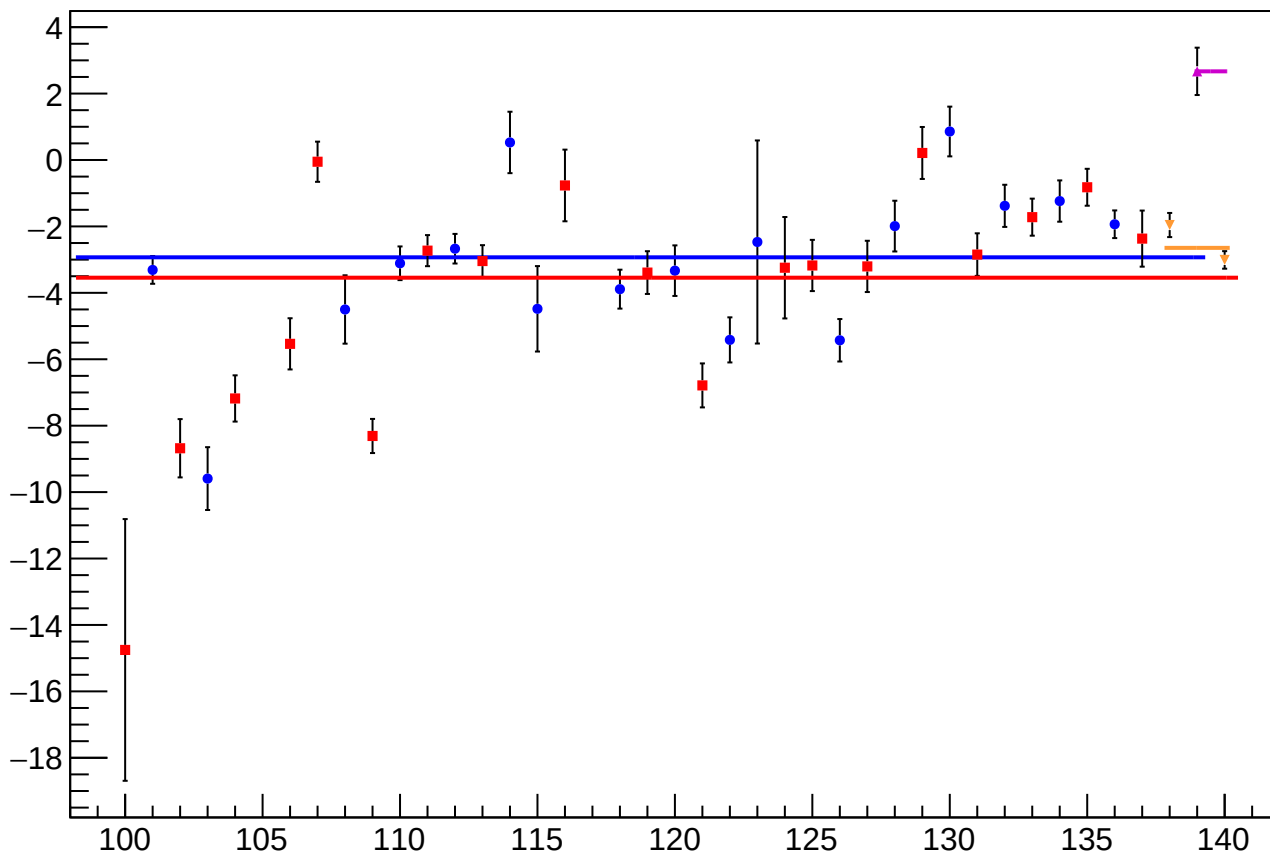


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 6.746 $\pm$ 0.247  $\chi^2$ /NDF:0.2/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.662 $\pm$ 0.391  $\chi^2$ /NDF:0.0/0

Left: 5.005 $\pm$ 0.209  $\chi^2$ /NDF: 173.4/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.662 $\pm$ 0.391  $\chi^2$ /NDF:0.0/0  
 Out: 6.746 $\pm$ 0.247  $\chi^2$ /NDF:0.2/1  
 All: 5.005 $\pm$ 0.209  $\chi^2$ /NDF: 173.4/2



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:  $-2.646 \pm 0.214$   $\chi^2/\text{NDF}$ : 5.5/1

Right Out:  $-3.544 \pm 0.155$   $\chi^2/\text{NDF}$ : 291.7/18

Left In:  $2.669 \pm 0.713$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-2.208 \pm 0.205$   $\chi^2/\text{NDF}$ : 56.5/2

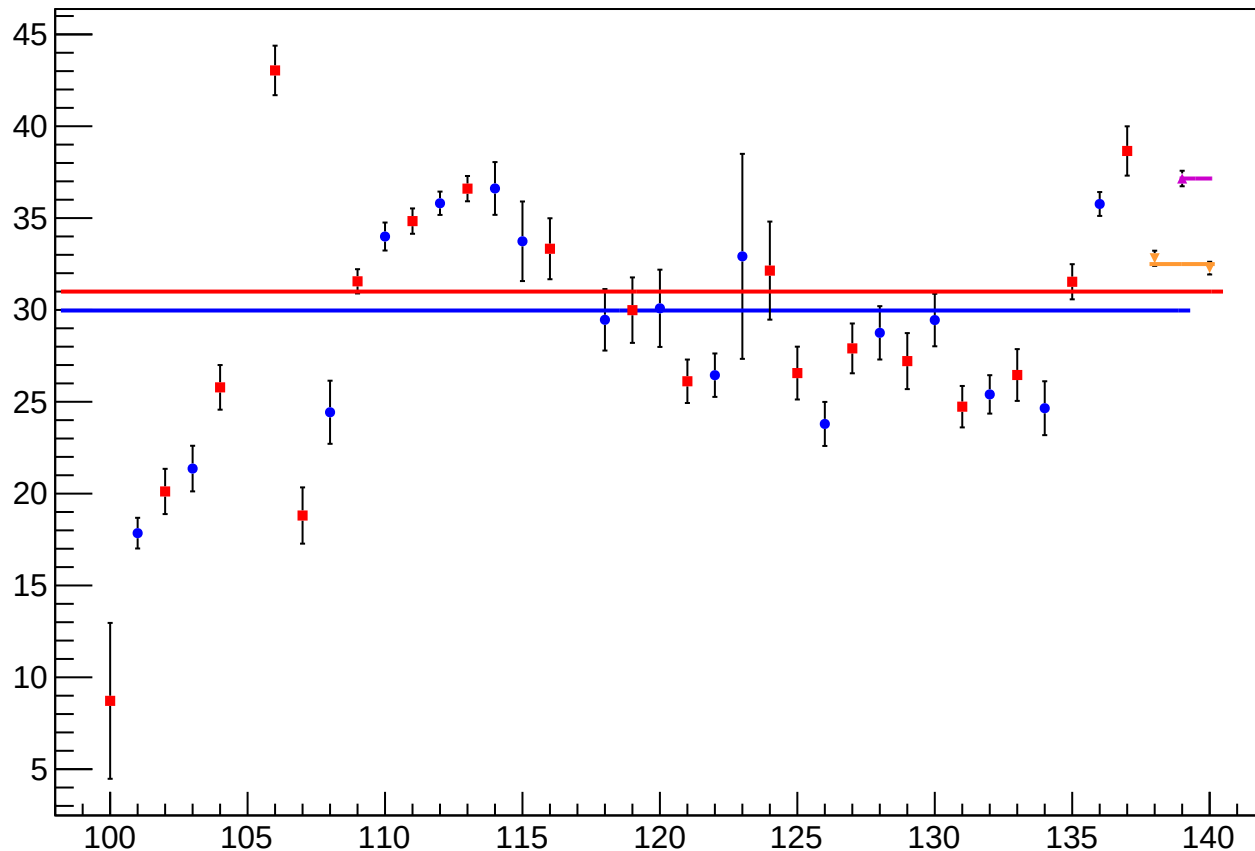
Right:  $-3.236 \pm 0.109$   $\chi^2/\text{NDF}$ : 446.1/35

In:  $-2.681 \pm 0.150$   $\chi^2/\text{NDF}$ : 205.5/17

Out:  $-3.235 \pm 0.125$   $\chi^2/\text{NDF}$ : 308.7/20

All:  $-3.008 \pm 0.096$   $\chi^2/\text{NDF}$ : 522.3/38

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.969 $\pm$ 0.267  $\chi^2$ /NDF: 554.3/16

Left Out: 32.497 $\pm$ 0.265  $\chi^2$ /NDF:1.0/1

Right Out: 31.000 $\pm$ 0.260  $\chi^2$ /NDF: 479.5/18

Left In: 37.154 $\pm$ 0.422  $\chi^2$ /NDF:0.0/0

Left: 33.816 $\pm$ 0.225  $\chi^2$ /NDF: 88.2/2

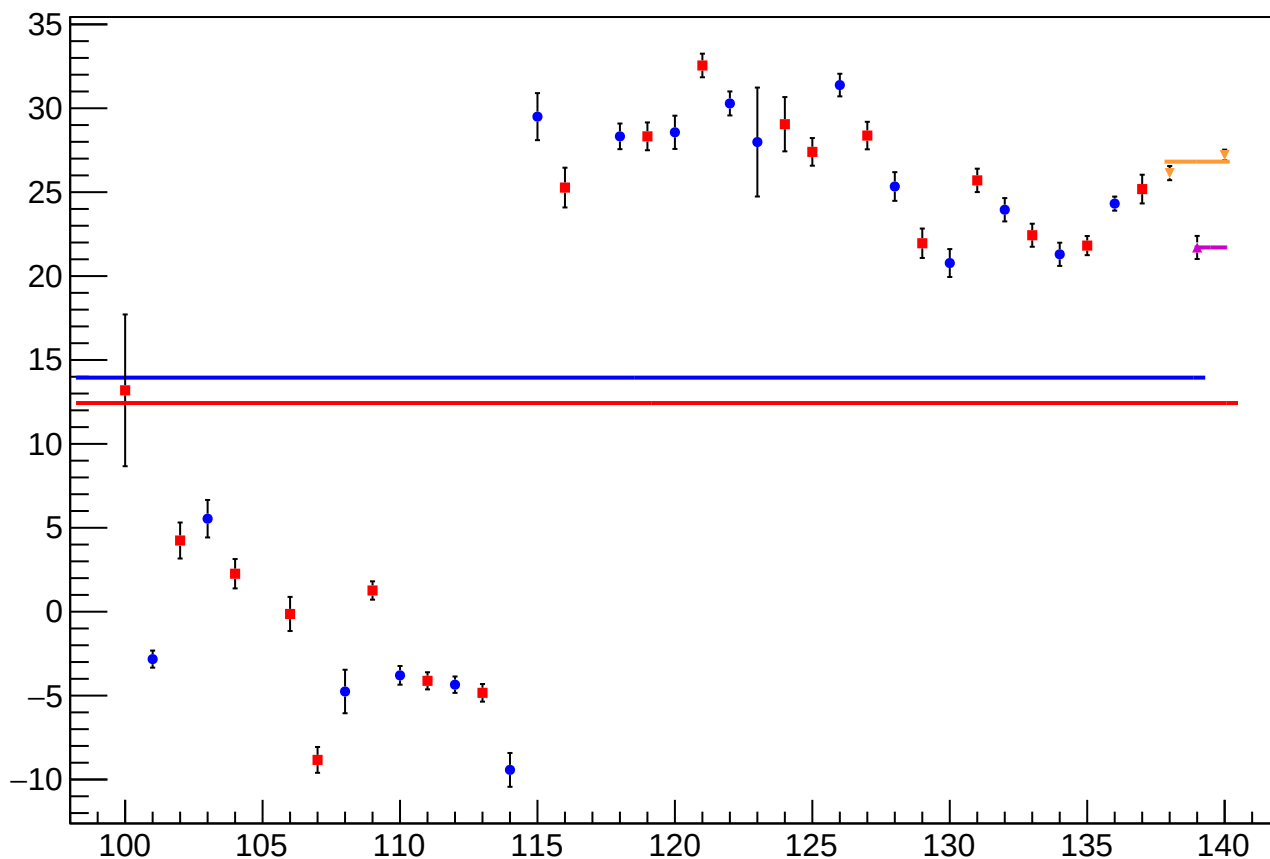
Right: 30.497 $\pm$ 0.186  $\chi^2$ /NDF: 1041.5/35

In: 32.018 $\pm$ 0.225  $\chi^2$ /NDF:761.4/17

Out: 31.733 $\pm$ 0.186  $\chi^2$ /NDF:496.7/20

All: 31.848 $\pm$ 0.143  $\chi^2$ /NDF: 1259.1/38

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: 26.820 $\pm$ 0.255  $\chi^2$ /NDF:4.2/1

Right Out: 12.435 $\pm$ 0.174  $\chi^2$ /NDF: 6962.9/18

Left In: 21.706 $\pm$ 0.687  $\chi^2$ /NDF:0.0/0

Left: 26.202 $\pm$ 0.239  $\chi^2$ /NDF: 52.9/2

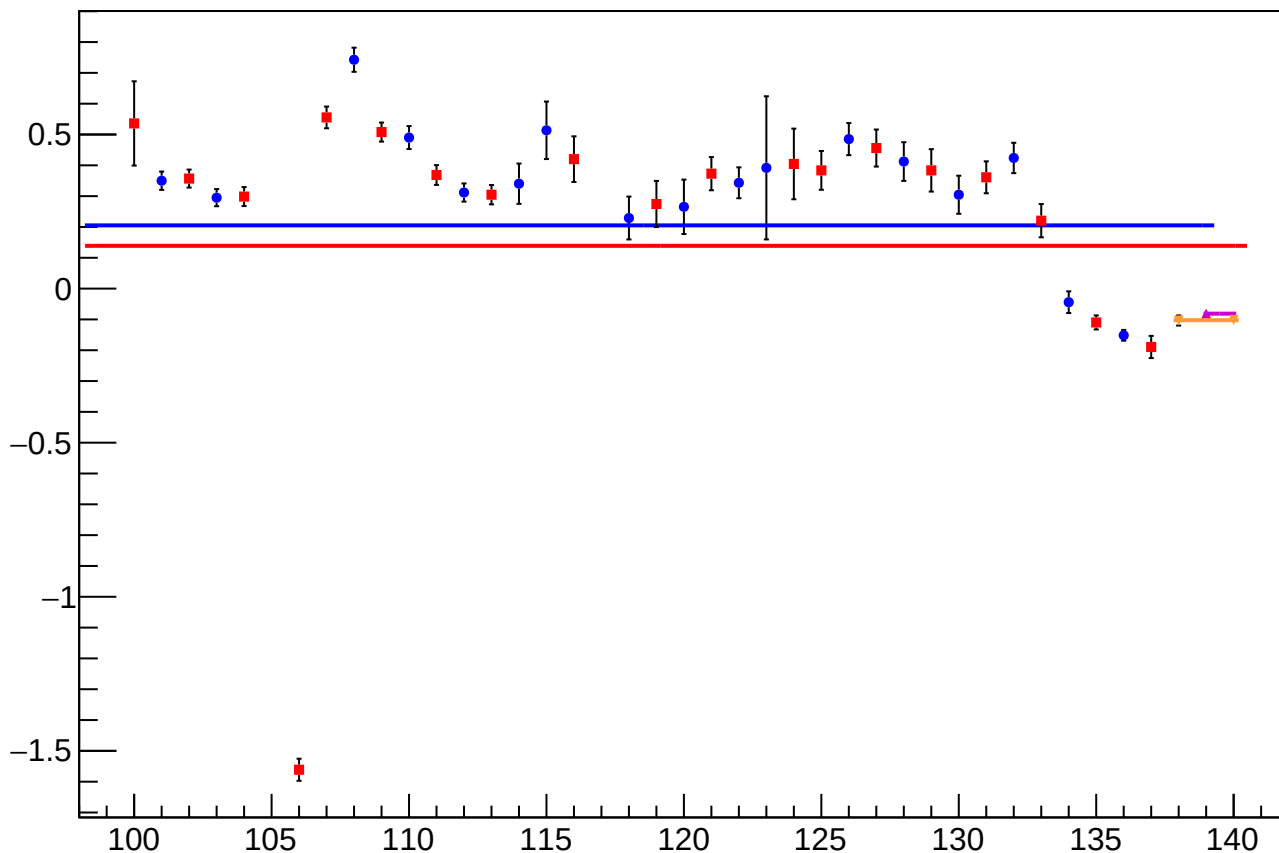
Right: 13.199 $\pm$ 0.122  $\chi^2$ /NDF: 14393.1/35

In: 14.405 $\pm$ 0.167  $\chi^2$ /NDF:7511.9/17

Out: 17.003 $\pm$ 0.143  $\chi^2$ /NDF:9145.5/20

All: 15.898 $\pm$ 0.109  $\chi^2$ /NDF: 16796.7/38

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.205 $\pm$ 0.009  $\chi^2$ /NDF: 846.2/16

Left Out: -0.103 $\pm$ 0.011  $\chi^2$ /NDF: 0.0/1

Right Out: 0.139 $\pm$ 0.009  $\chi^2$ /NDF: 3016.8/18

Left In: -0.081 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left: -0.095 $\pm$ 0.009  $\chi^2$ /NDF: 1.3/2

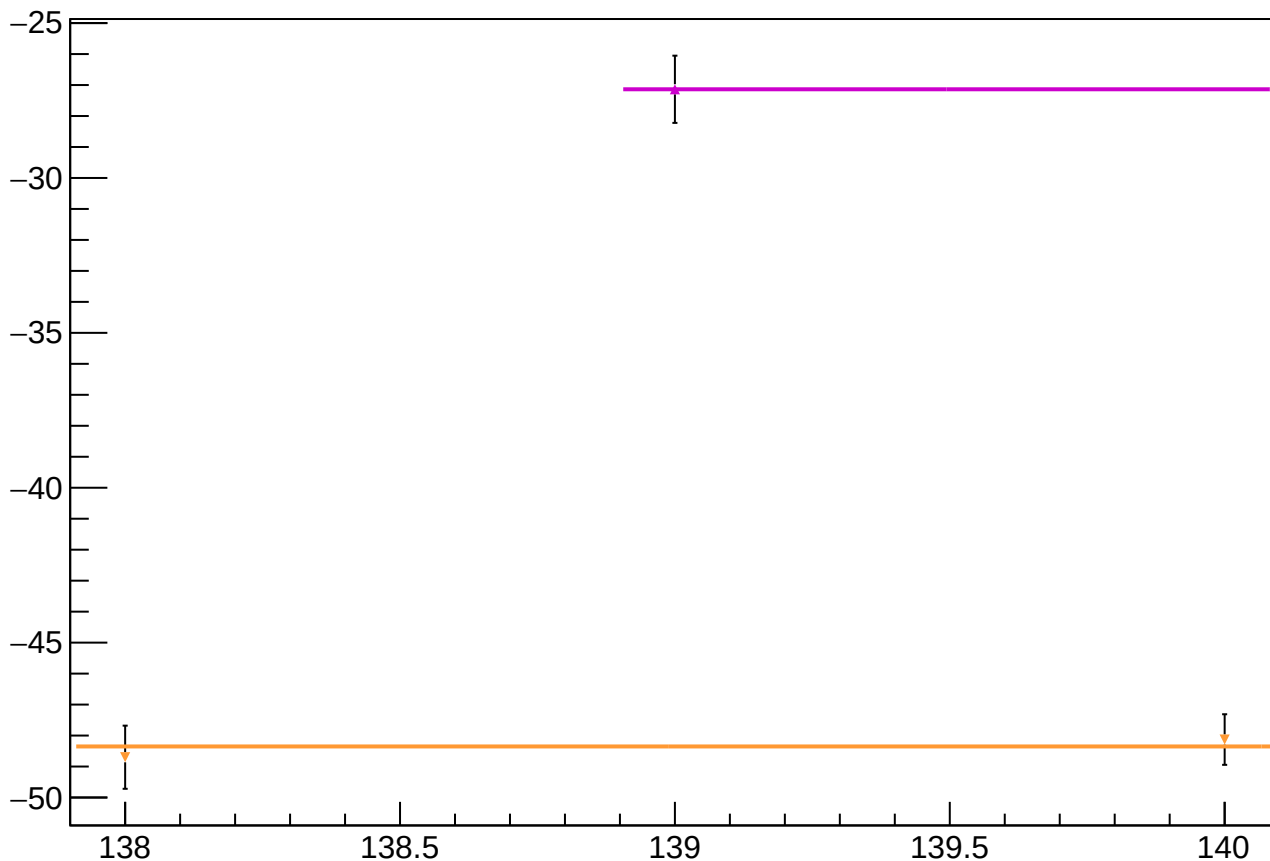
Right: 0.171 $\pm$ 0.007  $\chi^2$ /NDF: 3888.5/35

In: 0.125 $\pm$ 0.008  $\chi^2$ /NDF: 1108.2/17

Out: 0.041 $\pm$ 0.007  $\chi^2$ /NDF: 3296.9/20

All: 0.078 $\pm$ 0.005  $\chi^2$ /NDF: 4467.8/38

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -48.352+/-0.637  $\chi^2/\text{NDF}$ : 0.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -27.137+/-1.085  $\chi^2/\text{NDF}$ : 0.0/0

Left: -42.911+/-0.549  $\chi^2/\text{NDF}$ : 284.4/2

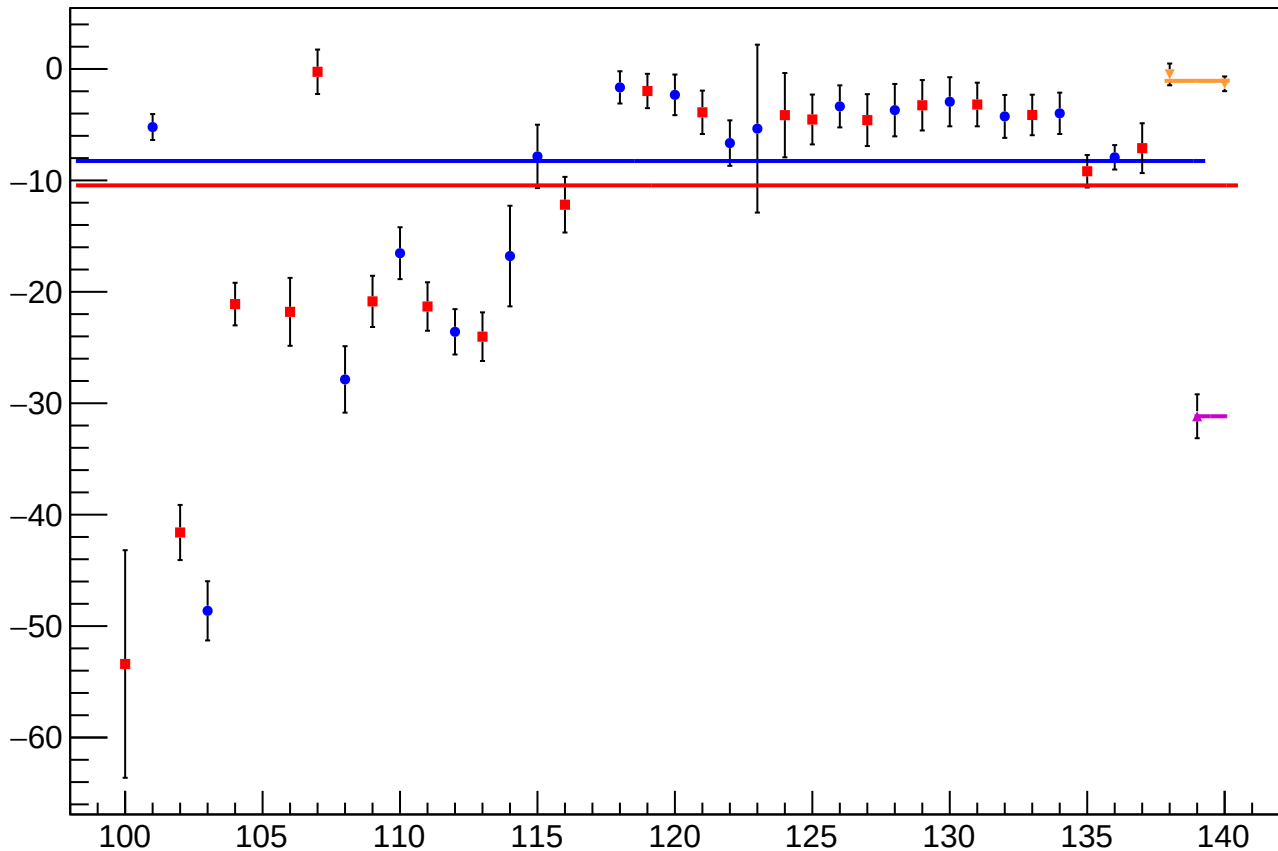
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -27.137+/-1.085  $\chi^2/\text{NDF}$ : 0.0/0

Out: -48.352+/-0.637  $\chi^2/\text{NDF}$ : 0.2/1

All: -42.911+/-0.549  $\chi^2/\text{NDF}$ : 284.4/2

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:  $-1.064 \pm 0.548$   $\chi^2/\text{NDF}: 0.5/1$

Right Out:  $-10.446 \pm 0.491$   $\chi^2/\text{NDF}: 428.4/18$

Left In:  $-31.167 \pm 1.970$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-3.225 \pm 0.528$   $\chi^2/\text{NDF}: 217.2/2$

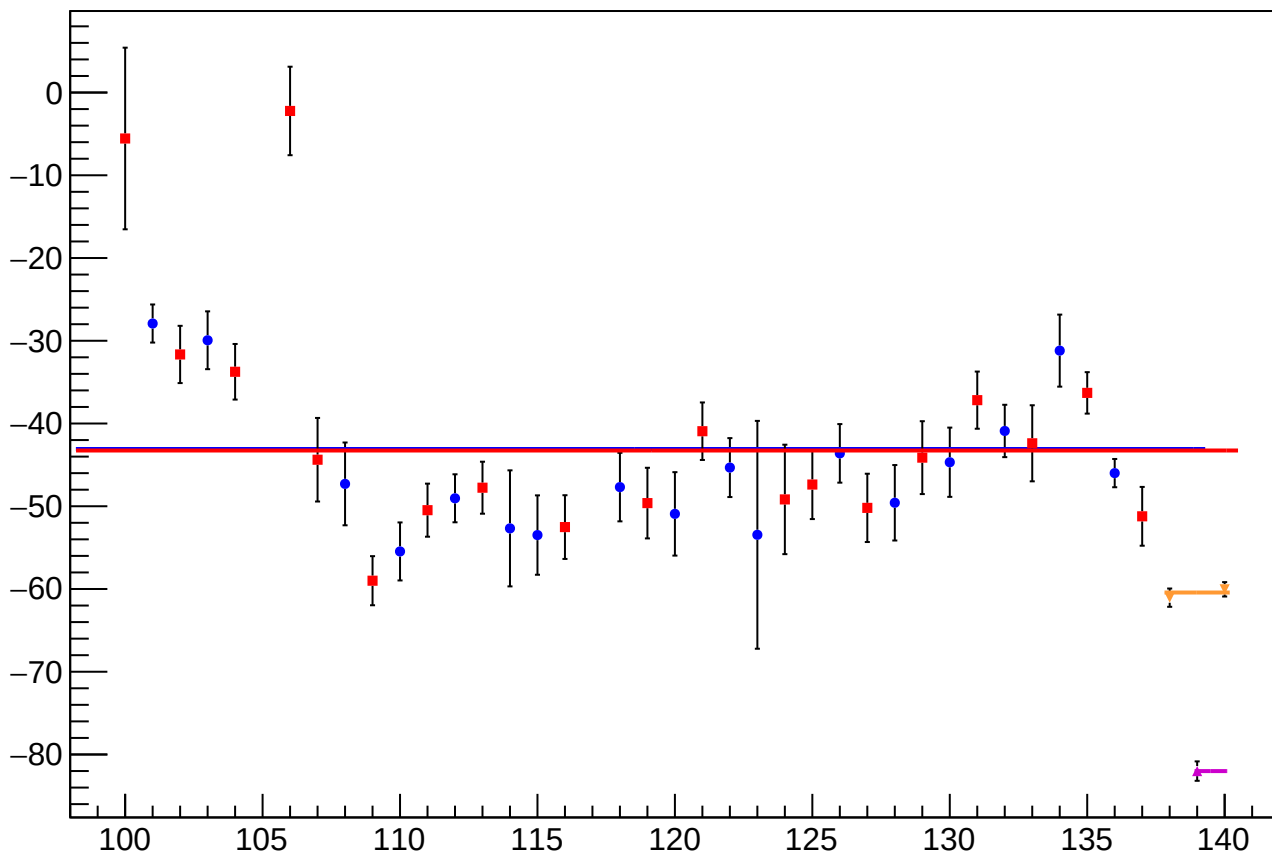
Right:  $-9.285 \pm 0.337$   $\chi^2/\text{NDF}: 851.1/35$

In:  $-9.451 \pm 0.450$   $\chi^2/\text{NDF}: 540.3/17$

Out:  $-6.266 \pm 0.366$   $\chi^2/\text{NDF}: 591.5/20$

All:  $-7.533 \pm 0.284$   $\chi^2/\text{NDF}: 1161.9/38$

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:  $-60.425 \pm 0.683$   $\chi^2/\text{NDF}$ : 0.5/1

Right Out:  $-43.262 \pm 0.866$   $\chi^2/\text{NDF}$ : 154.2/18

Left In:  $-82.007 \pm 1.174$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-65.887 \pm 0.590$   $\chi^2/\text{NDF}$ : 253.1/2

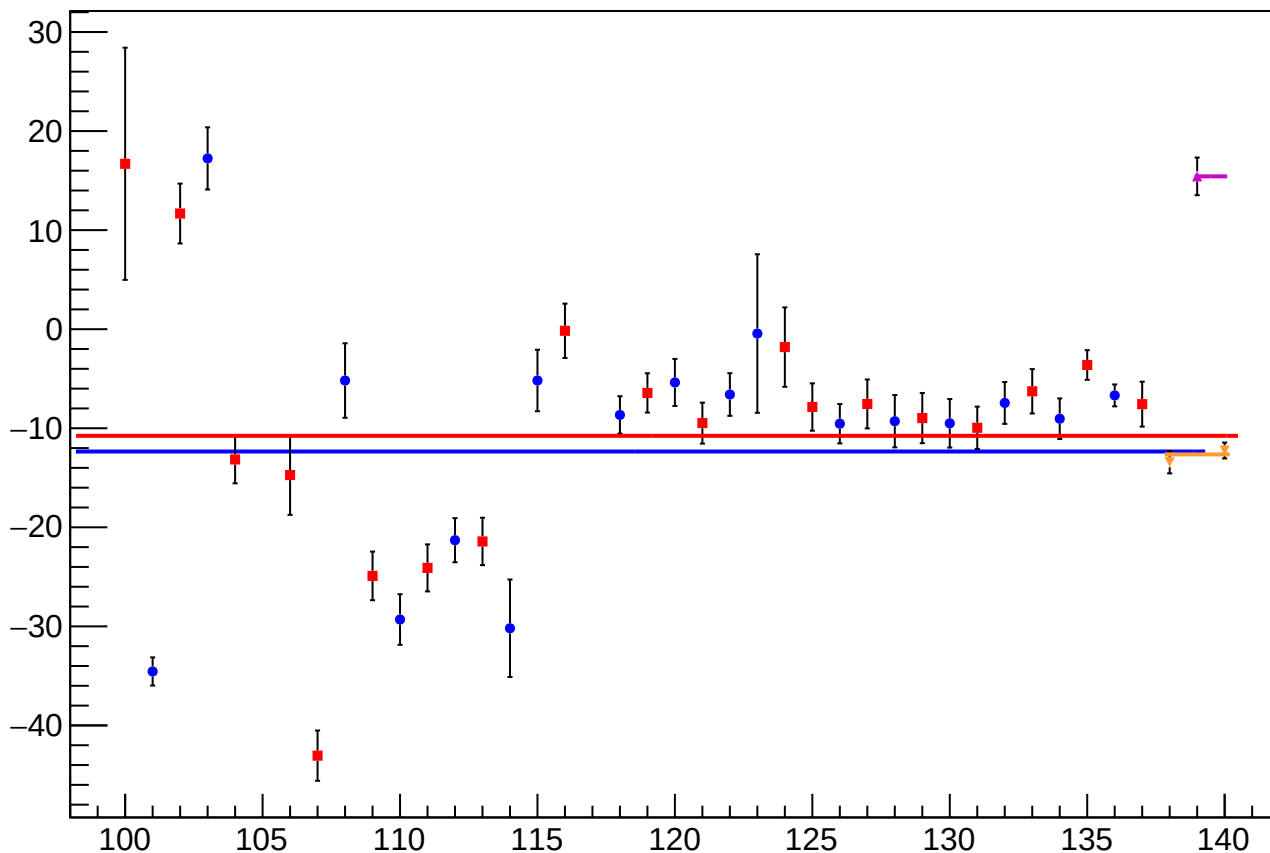
Right:  $-43.169 \pm 0.601$   $\chi^2/\text{NDF}$ : 253.4/35

In:  $-56.149 \pm 0.680$   $\chi^2/\text{NDF}$ : 830.0/17

Out:  $-53.846 \pm 0.536$   $\chi^2/\text{NDF}$ : 396.7/20

All:  $-54.730 \pm 0.421$   $\chi^2/\text{NDF}$ : 1233.8/38

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:  $-12.640 \pm 0.654$   $\chi^2/\text{NDF}$ : 0.7/1

Right Out:  $-10.765 \pm 0.554$   $\chi^2/\text{NDF}$ : 366.6/18

Left In:  $15.428 \pm 1.898$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-9.664 \pm 0.618$   $\chi^2/\text{NDF}$ : 196.2/2

Right:  $-11.606 \pm 0.379$   $\chi^2/\text{NDF}$ : 846.9/35

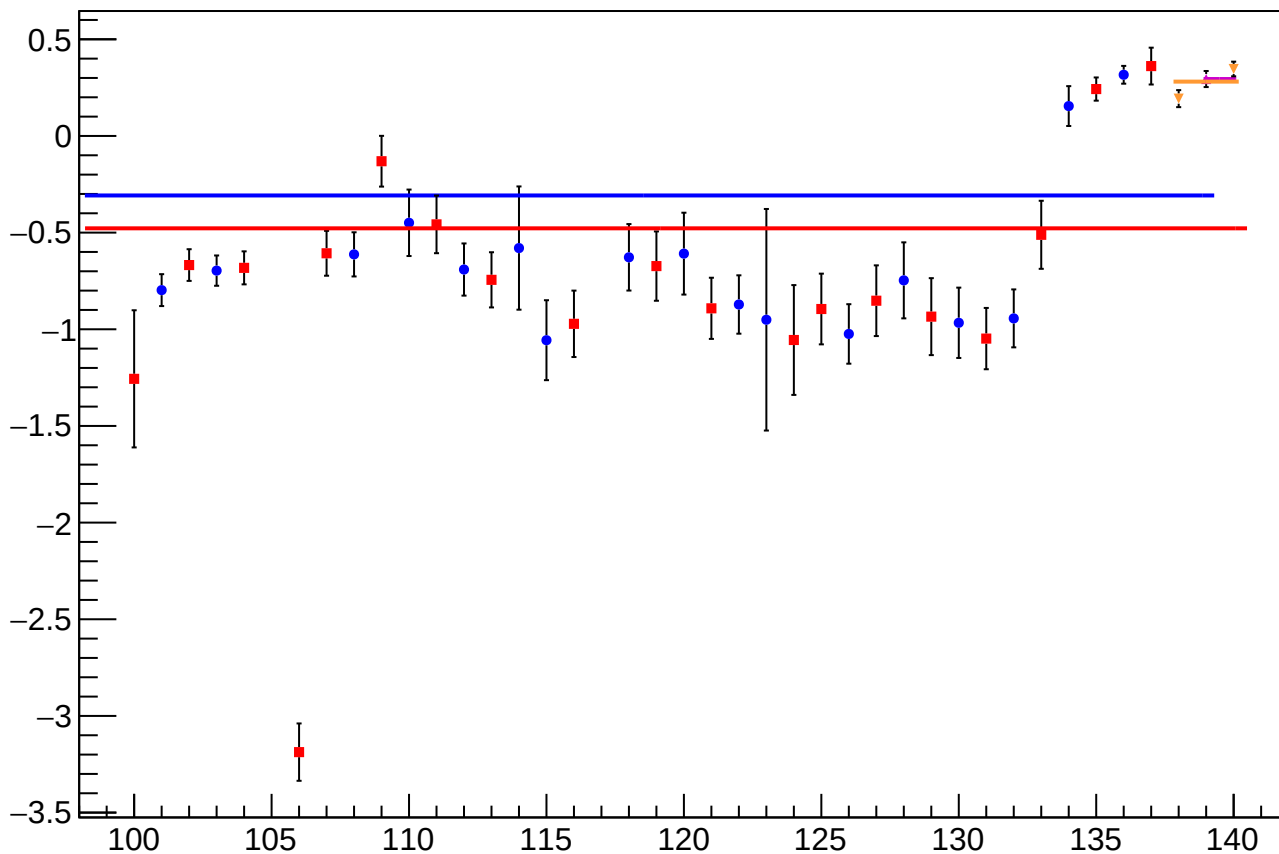
In:  $-10.411 \pm 0.501$   $\chi^2/\text{NDF}$ : 675.1/17

Out:  $-11.548 \pm 0.422$   $\chi^2/\text{NDF}$ : 372.2/20

All:  $-11.076 \pm 0.323$   $\chi^2/\text{NDF}$ : 1050.3/38



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:  $0.281 \pm 0.029$   $\chi^2/\text{NDF}$ : 7.0/1

Right Out:  $-0.478 \pm 0.029$   $\chi^2/\text{NDF}$ : 631.2/18

Left In:  $0.294 \pm 0.042$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.285 \pm 0.024$   $\chi^2/\text{NDF}$ : 7.0/2

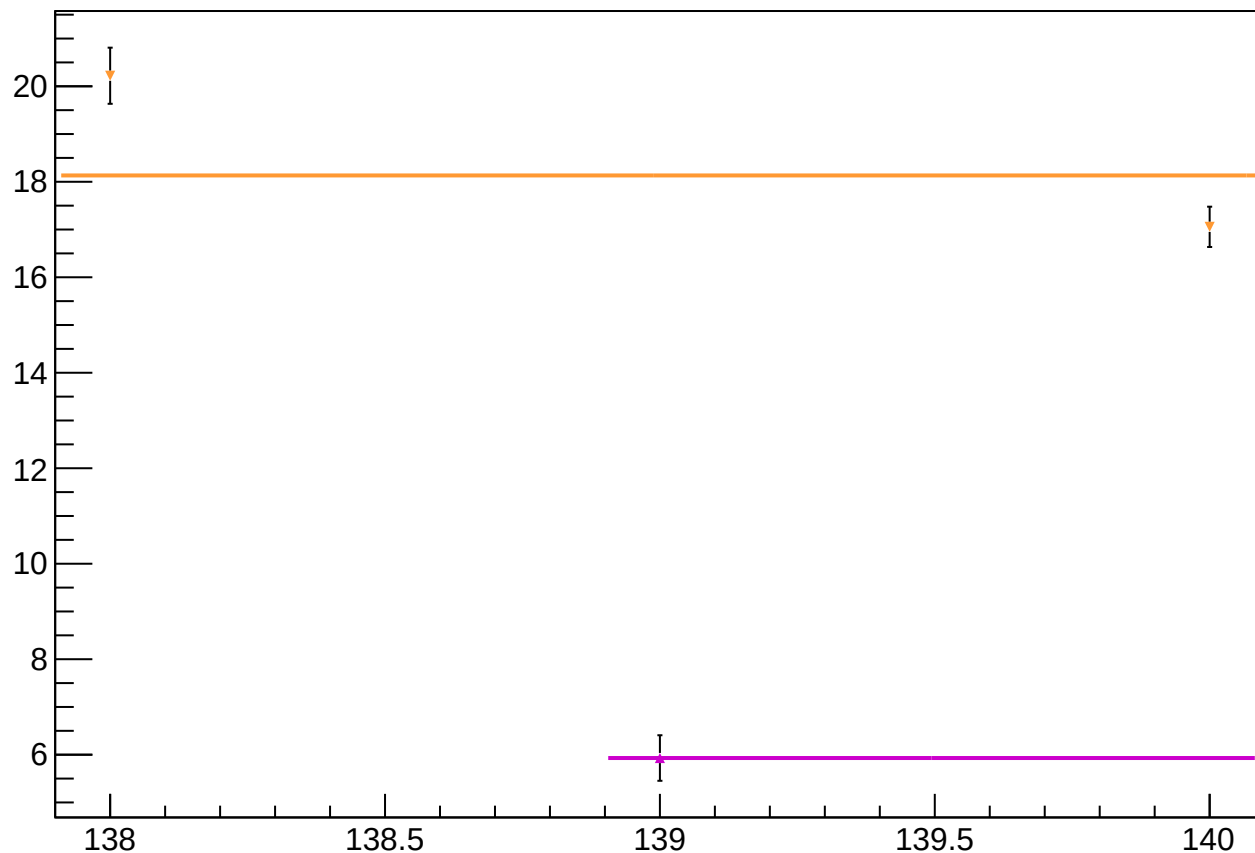
Right:  $-0.390 \pm 0.020$   $\chi^2/\text{NDF}$ : 1022.0/35

In:  $-0.124 \pm 0.023$   $\chi^2/\text{NDF}$ : 518.4/17

Out:  $-0.101 \pm 0.020$   $\chi^2/\text{NDF}$ : 989.5/20

All:  $-0.111 \pm 0.015$   $\chi^2/\text{NDF}$ : 1508.5/38

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: 18.133+/-0.343  $\chi^2/\text{NDF}$ :19.1/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.931+/-0.477  $\chi^2/\text{NDF}$ :0.0/0

Left: 13.978+/-0.278  $\chi^2/\text{NDF}$ : 450.6/2

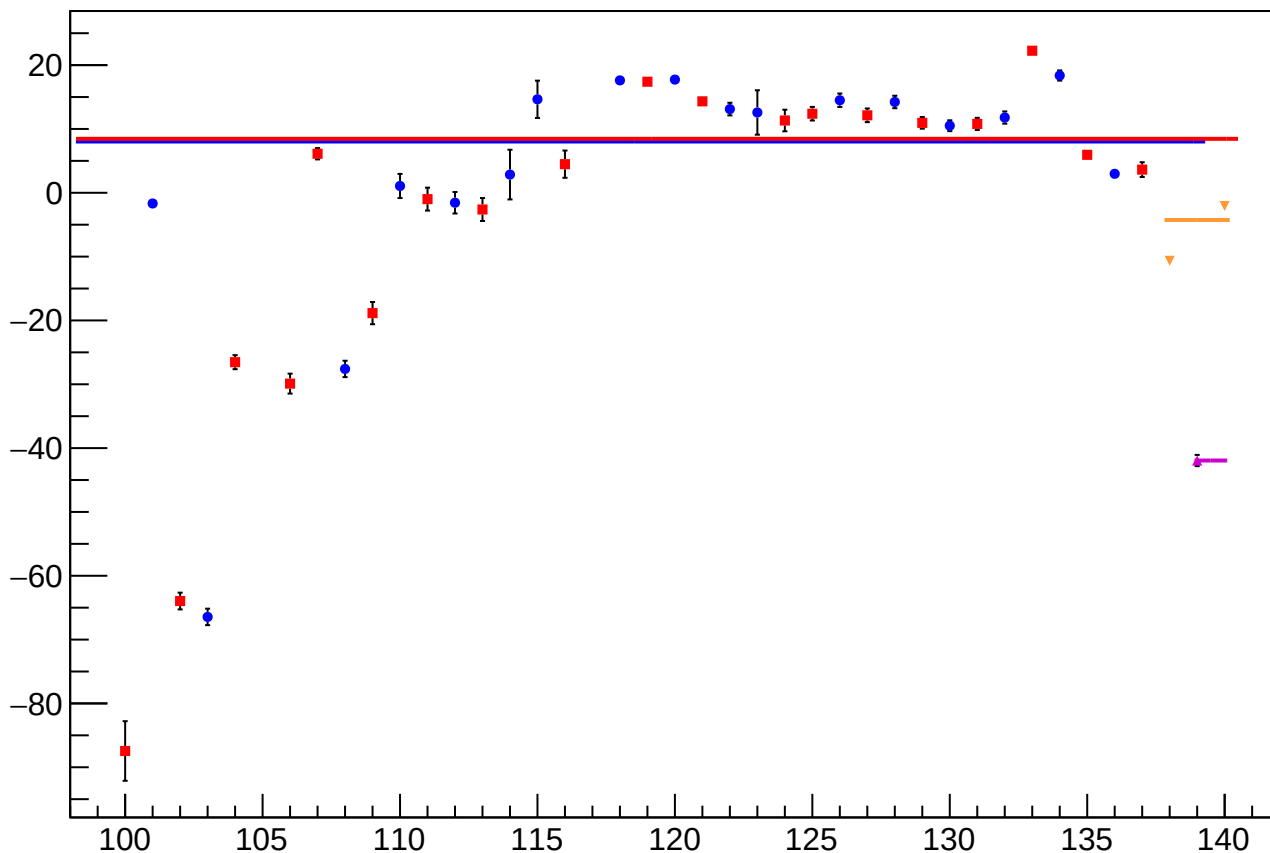
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5.931+/-0.477  $\chi^2/\text{NDF}$ :0.0/0

Out: 18.133+/-0.343  $\chi^2/\text{NDF}$ :19.1/1

All: 13.978+/-0.278  $\chi^2/\text{NDF}$ : 450.6/2

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: -4.259 $\pm$ 0.302  $\chi^2$ /NDF:154.3/1

Right Out: 8.454 $\pm$ 0.213  $\chi^2$ /NDF: 6704.4/18

Left In: -41.945 $\pm$ 0.880  $\chi^2$ /NDF:0.0/0

Left: -8.222 $\pm$ 0.285  $\chi^2$ /NDF: 1797.0/2

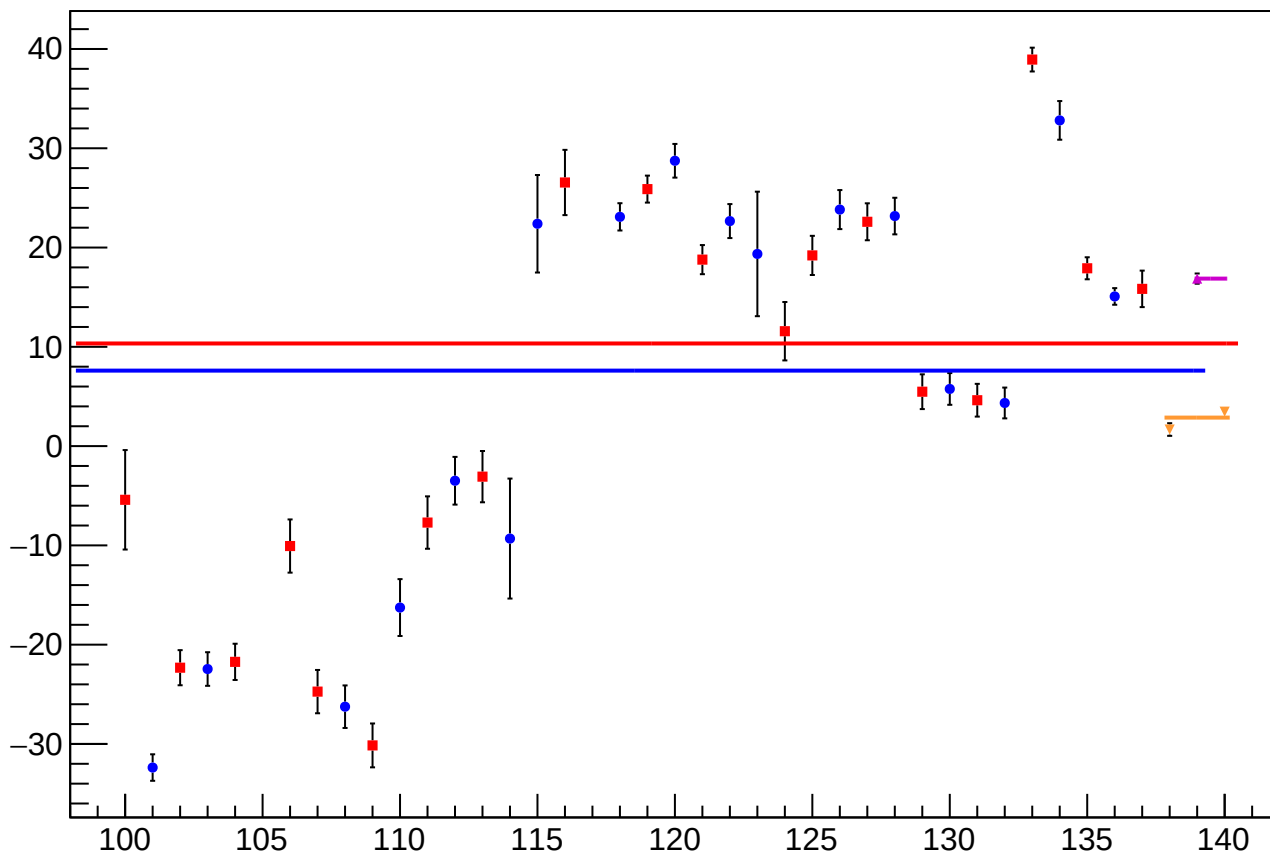
Right: 8.247 $\pm$ 0.151  $\chi^2$ /NDF: 12075.7/35

In: 5.214 $\pm$ 0.209  $\chi^2$ /NDF:8416.0/17

Out: 4.213 $\pm$ 0.174  $\chi^2$ /NDF:8043.2/20

All: 4.623 $\pm$ 0.134  $\chi^2$ /NDF: 16472.8/38

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:  $2.871 \pm 0.367$   $\chi^2/\text{NDF}: 5.3/1$

Right Out:  $10.337 \pm 0.416$   $\chi^2/\text{NDF}: 2281.8/18$

Left In:  $16.871 \pm 0.515$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $7.598 \pm 0.299$   $\chi^2/\text{NDF}: 495.5/2$

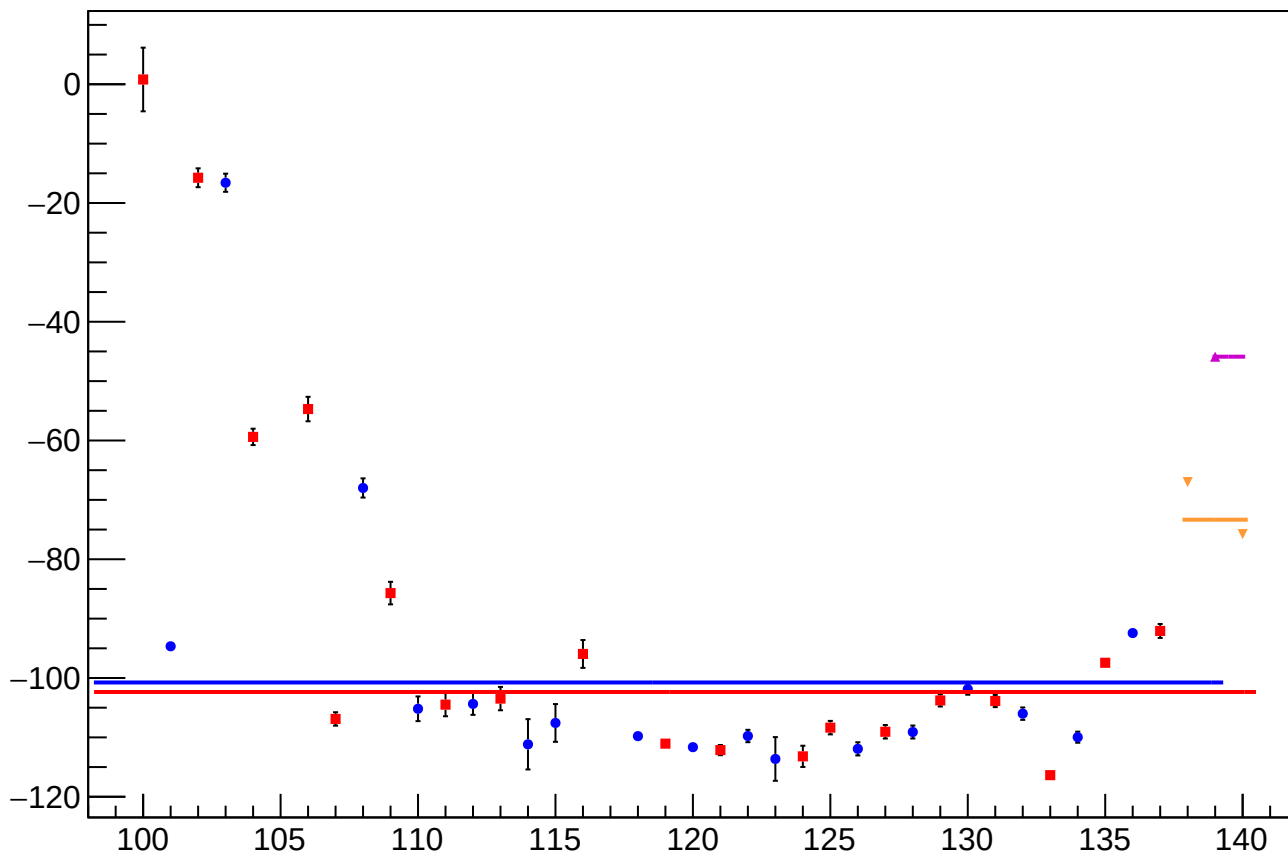
Right:  $8.969 \pm 0.294$   $\chi^2/\text{NDF}: 4628.4/35$

In:  $11.264 \pm 0.323$   $\chi^2/\text{NDF}: 2521.2/17$

Out:  $6.139 \pm 0.276$   $\chi^2/\text{NDF}: 2467.9/20$

All:  $8.294 \pm 0.210$   $\chi^2/\text{NDF}: 5134.6/38$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -100.753+/-0.248  $\chi^2/\text{NDF}$ : 4522.6/16

Left Out: -73.339+/-0.358  $\chi^2/\text{NDF}$ :119.9/1

Right Out: -102.354+/-0.246  $\chi^2/\text{NDF}$ : 6078.9/18

Left In: -45.881+/-0.849  $\chi^2/\text{NDF}$ :0.0/0

Left: -69.184+/-0.330  $\chi^2/\text{NDF}$ : 1008.6/2

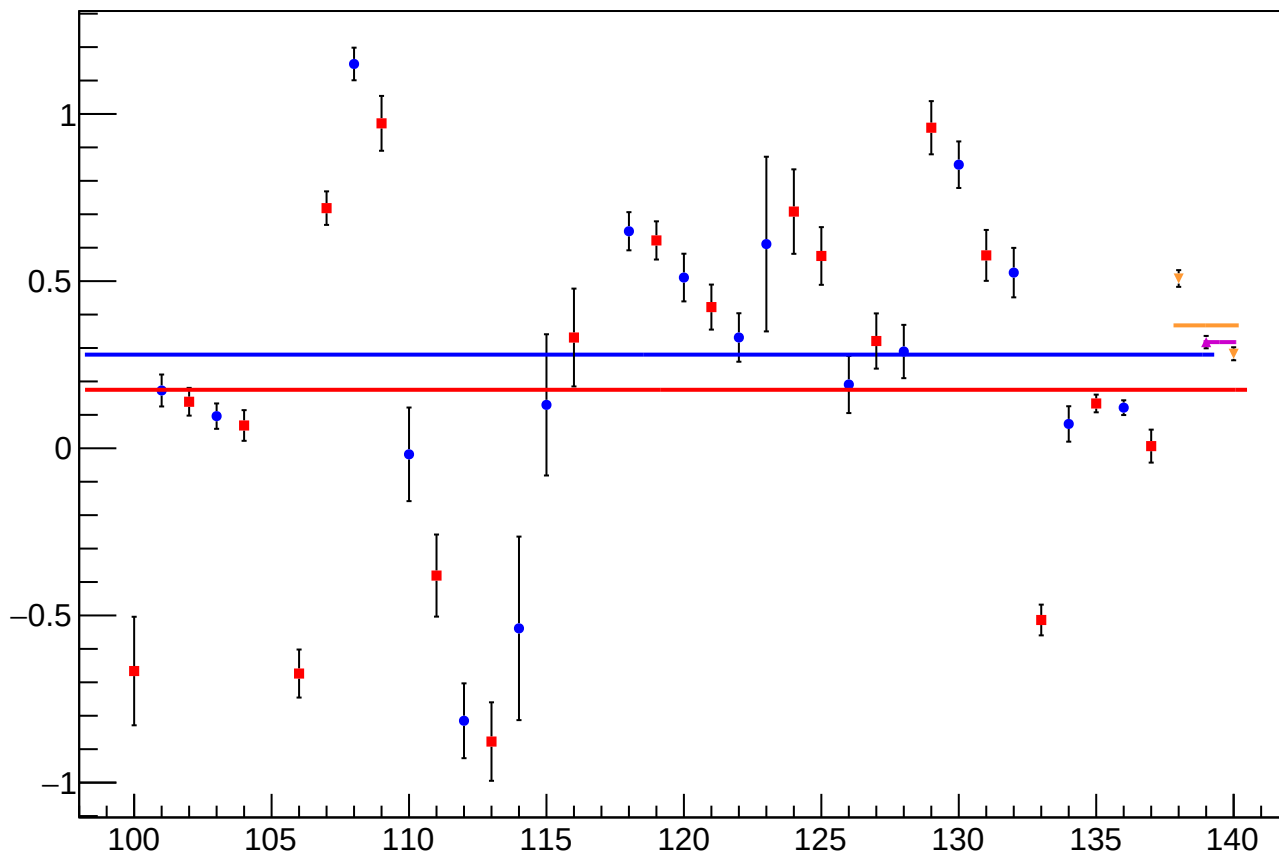
Right: -101.559+/-0.175  $\chi^2/\text{NDF}$ : 10622.5/35

In: -96.434+/-0.238  $\chi^2/\text{NDF}$ :8375.4/17

Out: -93.047+/-0.203  $\chi^2/\text{NDF}$ :10652.9/20

All: -94.472+/-0.154  $\chi^2/\text{NDF}$ : 19145.6/38

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:  $0.368 \pm 0.015$   $\chi^2/\text{NDF}$ : 50.4/1

Right Out:  $0.175 \pm 0.013$   $\chi^2/\text{NDF}$ : 966.7/18

Left In:  $0.318 \pm 0.019$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.347 \pm 0.012$   $\chi^2/\text{NDF}$ : 54.8/2

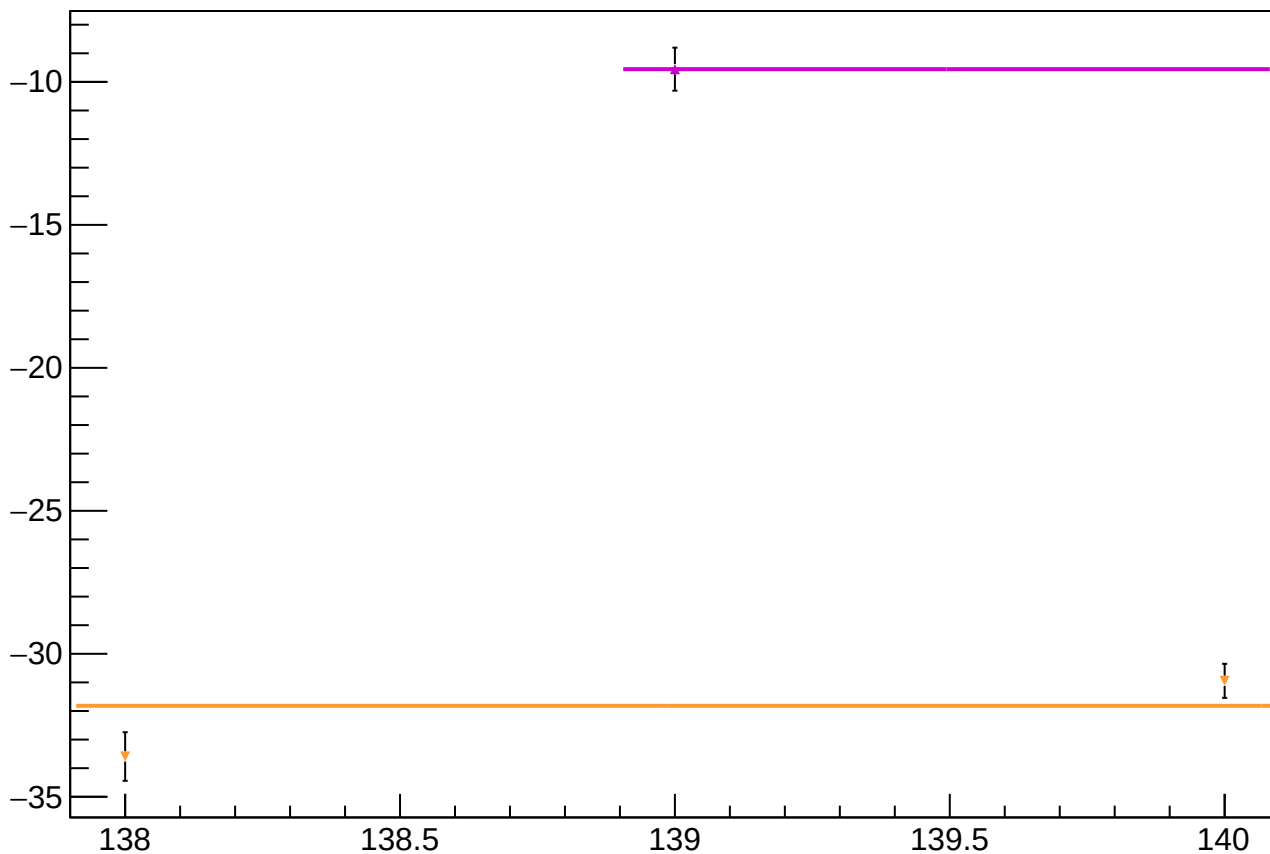
Right:  $0.227 \pm 0.010$   $\chi^2/\text{NDF}$ : 1653.2/35

In:  $0.293 \pm 0.011$   $\chi^2/\text{NDF}$ : 658.7/17

Out:  $0.259 \pm 0.010$   $\chi^2/\text{NDF}$ : 1106.2/20

All:  $0.275 \pm 0.007$   $\chi^2/\text{NDF}$ : 1770.3/38

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-31.818 \pm 0.488$   $\chi^2/\text{NDF}$ : 6.5/1

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-9.555 \pm 0.752$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-25.225 \pm 0.409$   $\chi^2/\text{NDF}$ : 623.2/2

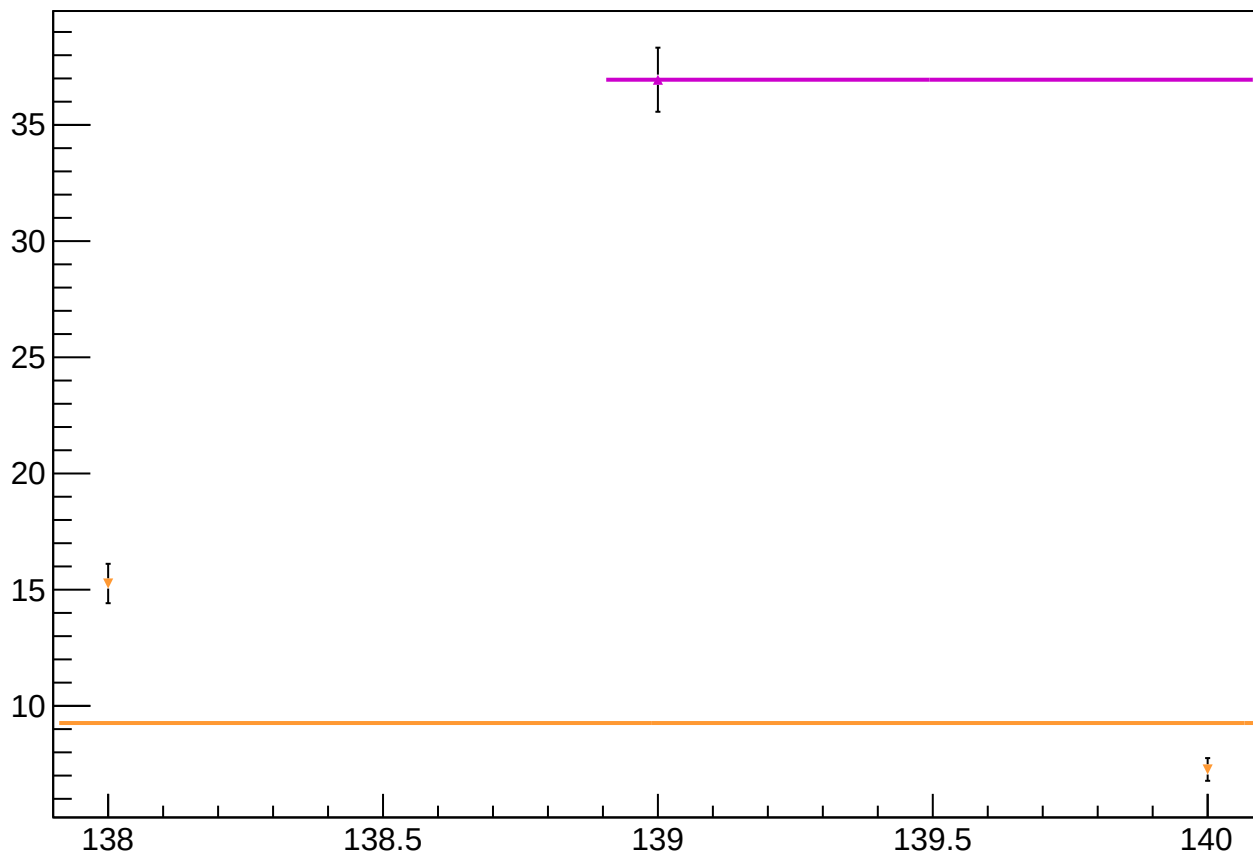
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-9.555 \pm 0.752$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $-31.818 \pm 0.488$   $\chi^2/\text{NDF}$ : 6.5/1

All:  $-25.225 \pm 0.409$   $\chi^2/\text{NDF}$ : 623.2/2

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

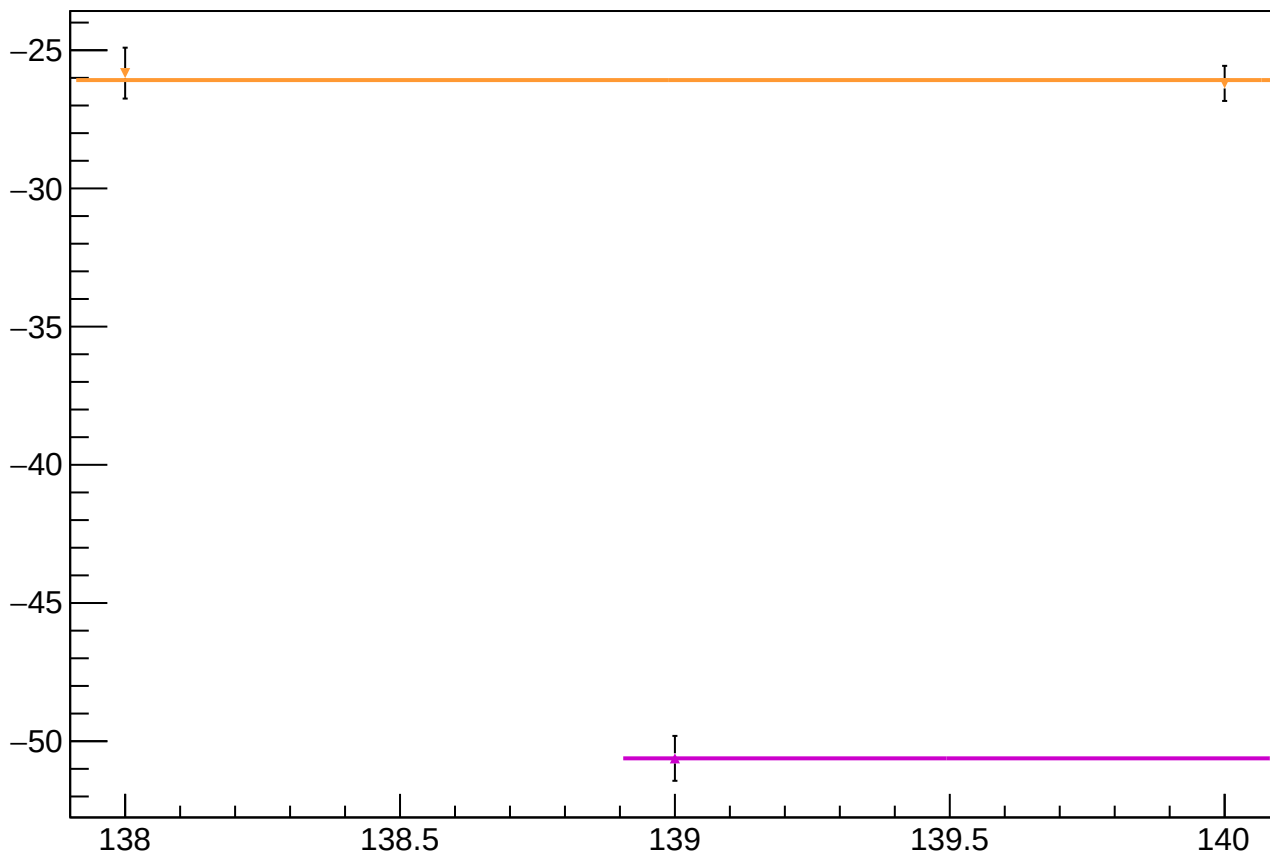


Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 9.262 $\pm$ 0.423  $\chi^2/\text{NDF}$ :66.9/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 36.945 $\pm$ 1.379  $\chi^2/\text{NDF}$ :0.0/0

Left: 11.645 $\pm$ 0.405  $\chi^2/\text{NDF}$ : 435.2/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 36.945 $\pm$ 1.379  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 9.262 $\pm$ 0.423  $\chi^2/\text{NDF}$ :66.9/1  
 All: 11.645 $\pm$ 0.405  $\chi^2/\text{NDF}$ : 435.2/2



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: -26.080±/-0.523  $\chi^2/\text{NDF}$ : 0.1/1

Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -50.620±/-0.812  $\chi^2/\text{NDF}$ : 0.0/0

Left: -33.268±/-0.440  $\chi^2/\text{NDF}$ : 645.7/2

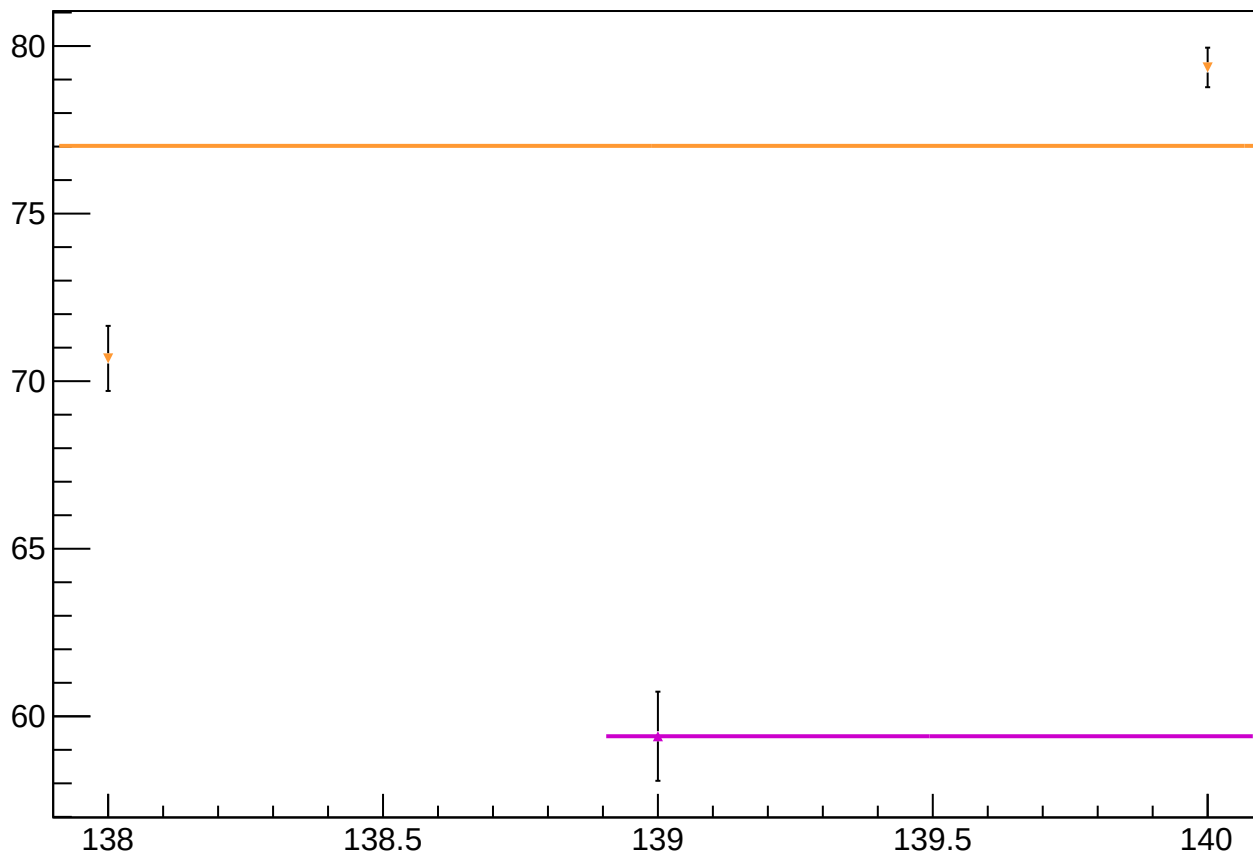
Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -50.620±/-0.812  $\chi^2/\text{NDF}$ : 0.0/0

Out: -26.080±/-0.523  $\chi^2/\text{NDF}$ : 0.1/1

All: -33.268±/-0.440  $\chi^2/\text{NDF}$ : 645.7/2

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: 77.021+/-0.504  $\chi^2/\text{NDF}$ :58.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 59.406+/-1.330  $\chi^2/\text{NDF}$ :0.0/0

Left: 74.808+/-0.471  $\chi^2/\text{NDF}$ : 211.9/2

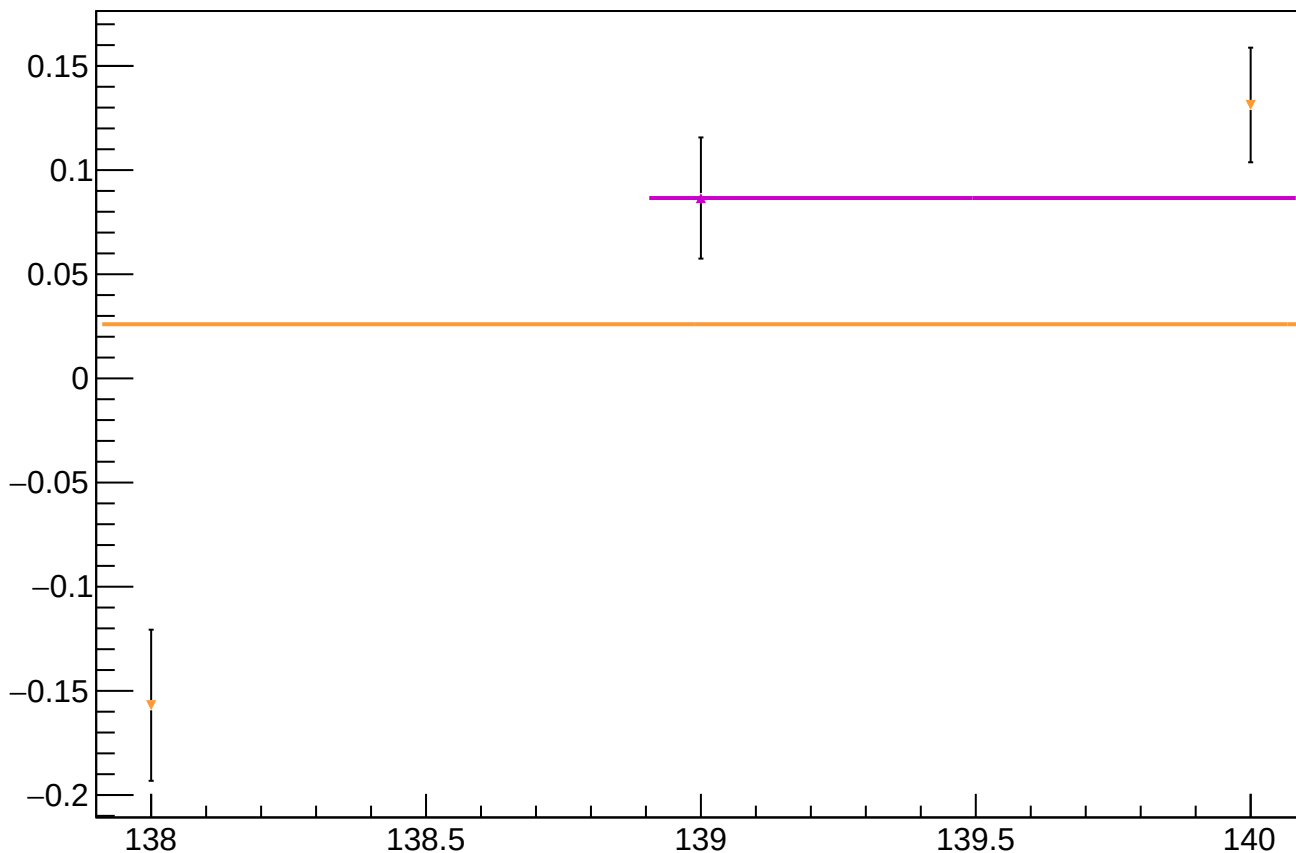
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 59.406+/-1.330  $\chi^2/\text{NDF}$ :0.0/0

Out: 77.021+/-0.504  $\chi^2/\text{NDF}$ :58.4/1

All: 74.808+/-0.471  $\chi^2/\text{NDF}$ : 211.9/2

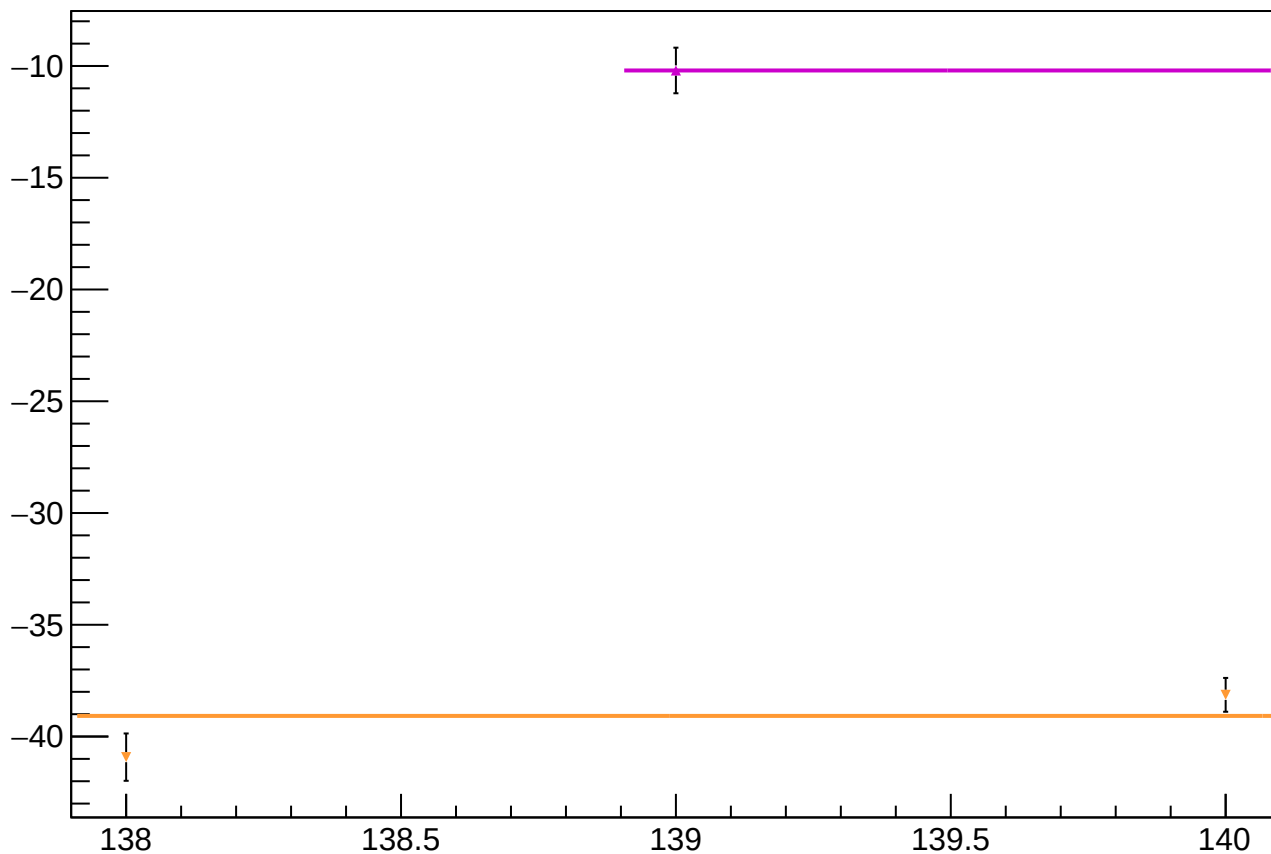
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.026+/-0.022  $\chi^2/\text{NDF}$ :40.1/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.087+/-0.029  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.048+/-0.018  $\chi^2/\text{NDF}$ : 42.8/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.087+/-0.029  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 0.026+/-0.022  $\chi^2/\text{NDF}$ :40.1/1  
 All: 0.048+/-0.018  $\chi^2/\text{NDF}$ : 42.8/2

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -39.077+/-0.616  $\chi^2/\text{NDF}$ : 4.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -10.201+/-1.020  $\chi^2/\text{NDF}$ : 0.0/0

Left: -31.367+/-0.527  $\chi^2/\text{NDF}$ : 592.0/2

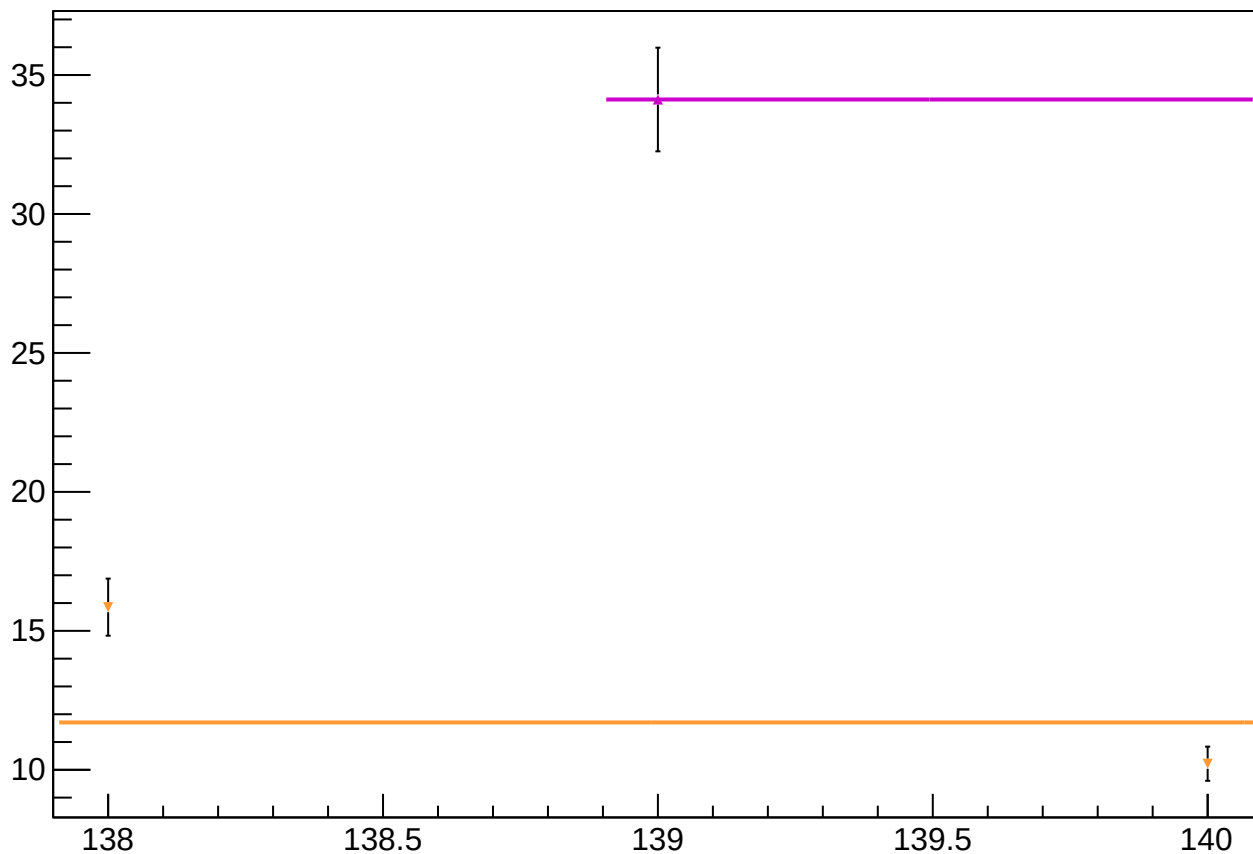
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -10.201+/-1.020  $\chi^2/\text{NDF}$ : 0.0/0

Out: -39.077+/-0.616  $\chi^2/\text{NDF}$ : 4.6/1

All: -31.367+/-0.527  $\chi^2/\text{NDF}$ : 592.0/2

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: 11.705+/-0.527  $\chi^2/\text{NDF}$ :22.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 34.119+/-1.865  $\chi^2/\text{NDF}$ :0.0/0

Left: 13.364+/-0.507  $\chi^2/\text{NDF}$ : 155.9/2

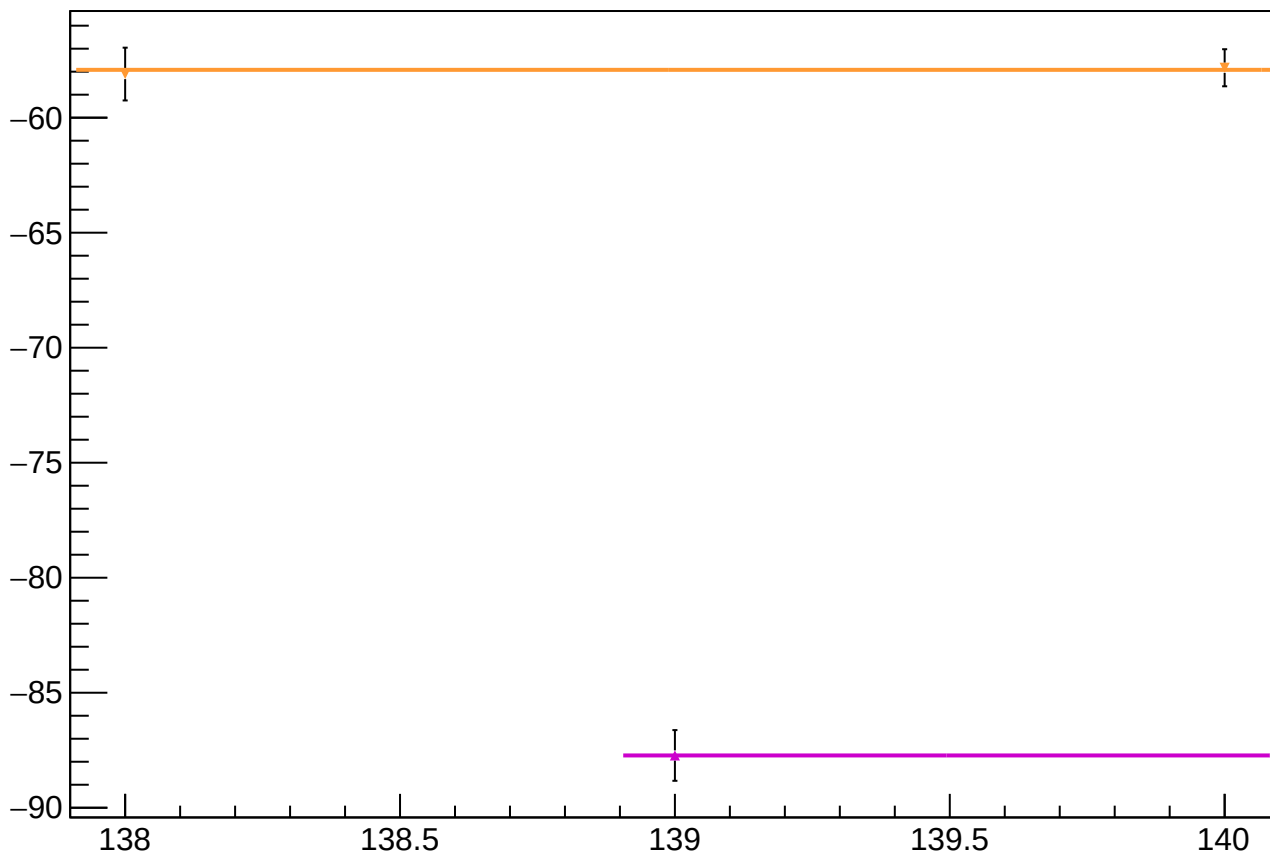
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 34.119+/-1.865  $\chi^2/\text{NDF}$ :0.0/0

Out: 11.705+/-0.527  $\chi^2/\text{NDF}$ :22.2/1

All: 13.364+/-0.507  $\chi^2/\text{NDF}$ : 155.9/2

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: -57.920+/-0.659  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -87.727+/-1.102  $\chi^2/\text{NDF}$ : 0.0/0

Left: -65.779+/-0.566  $\chi^2/\text{NDF}$ : 538.6/2

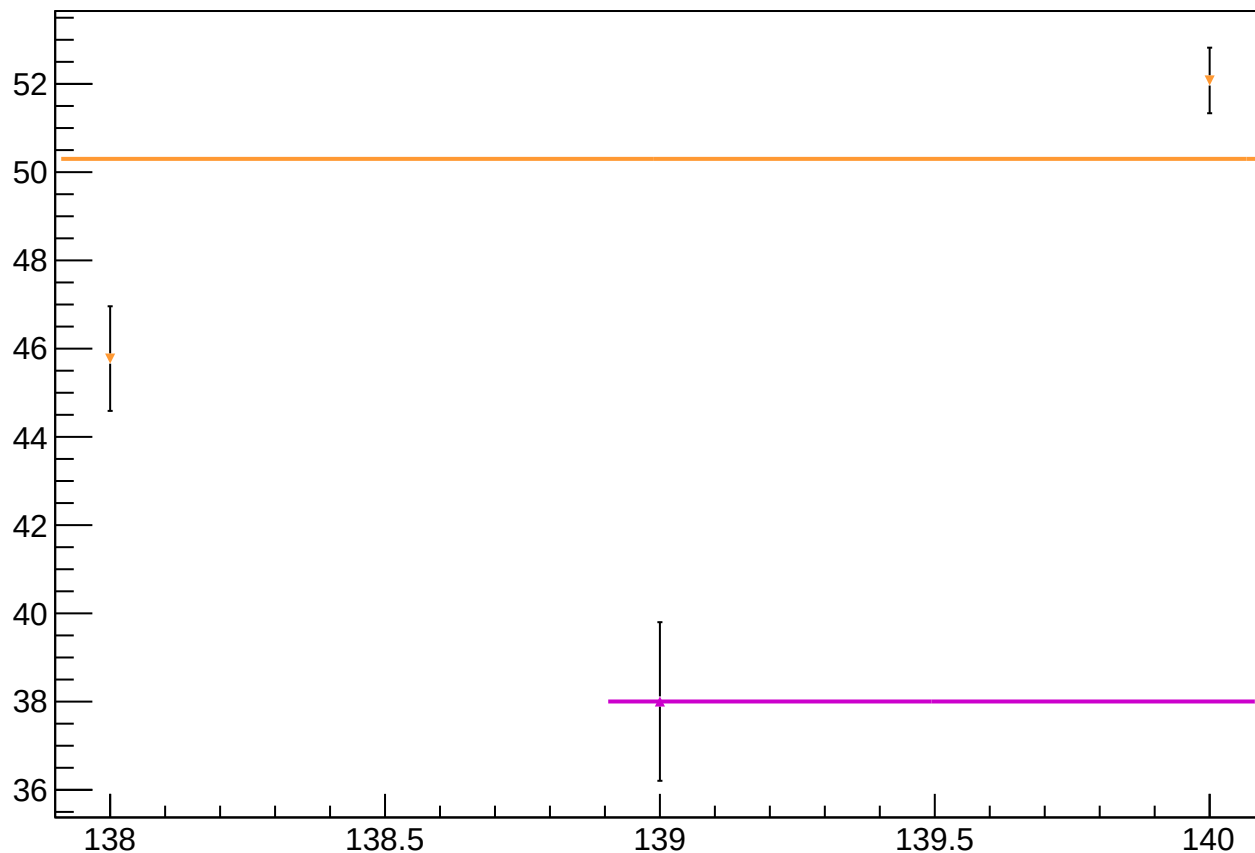
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -87.727+/-1.102  $\chi^2/\text{NDF}$ : 0.0/0

Out: -57.920+/-0.659  $\chi^2/\text{NDF}$ : 0.0/1

All: -65.779+/-0.566  $\chi^2/\text{NDF}$ : 538.6/2

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: 50.301+/-0.630  $\chi^2/\text{NDF}$ :20.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 38.003+/-1.798  $\chi^2/\text{NDF}$ :0.0/0

Left: 48.957+/-0.594  $\chi^2/\text{NDF}$ : 62.0/2

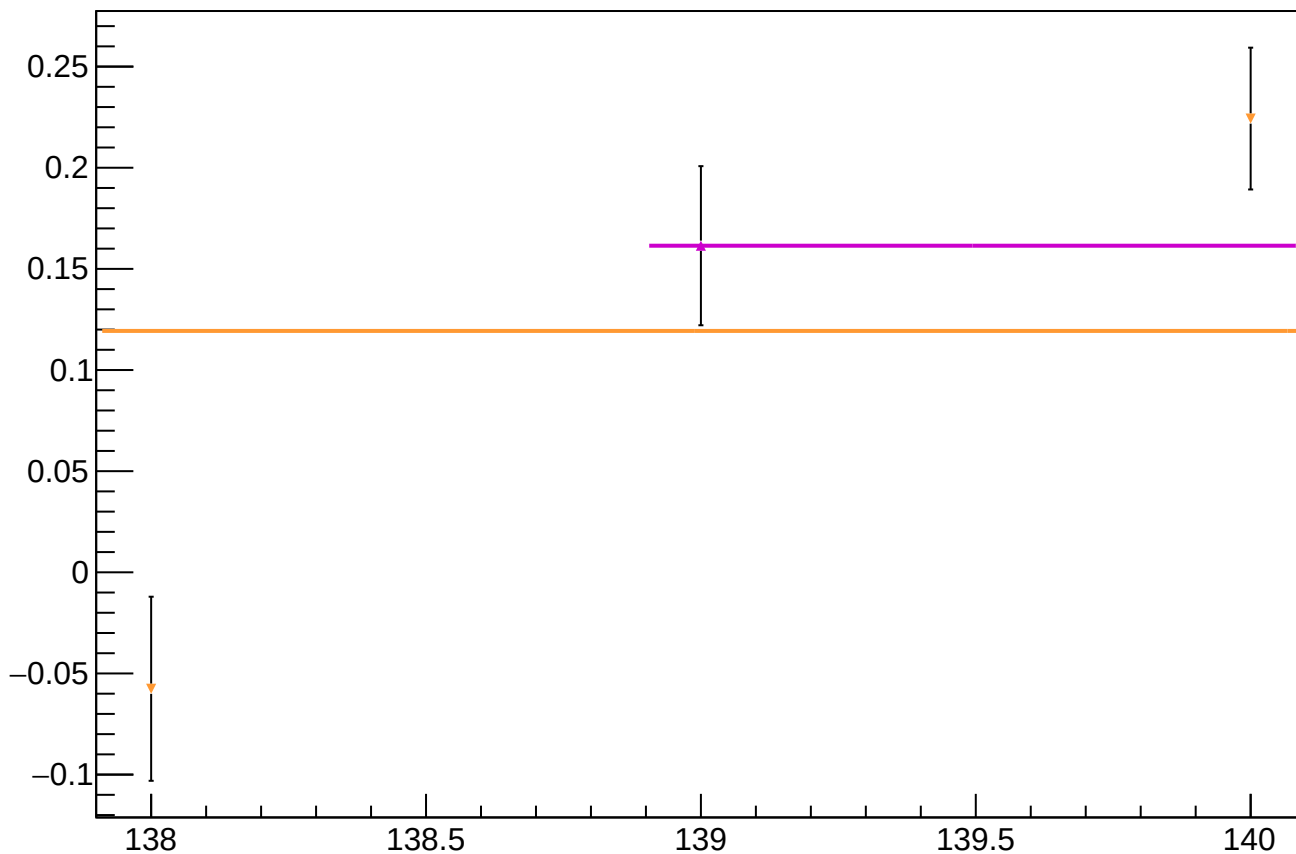
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 38.003+/-1.798  $\chi^2/\text{NDF}$ :0.0/0

Out: 50.301+/-0.630  $\chi^2/\text{NDF}$ :20.3/1

All: 48.957+/-0.594  $\chi^2/\text{NDF}$ : 62.0/2

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected

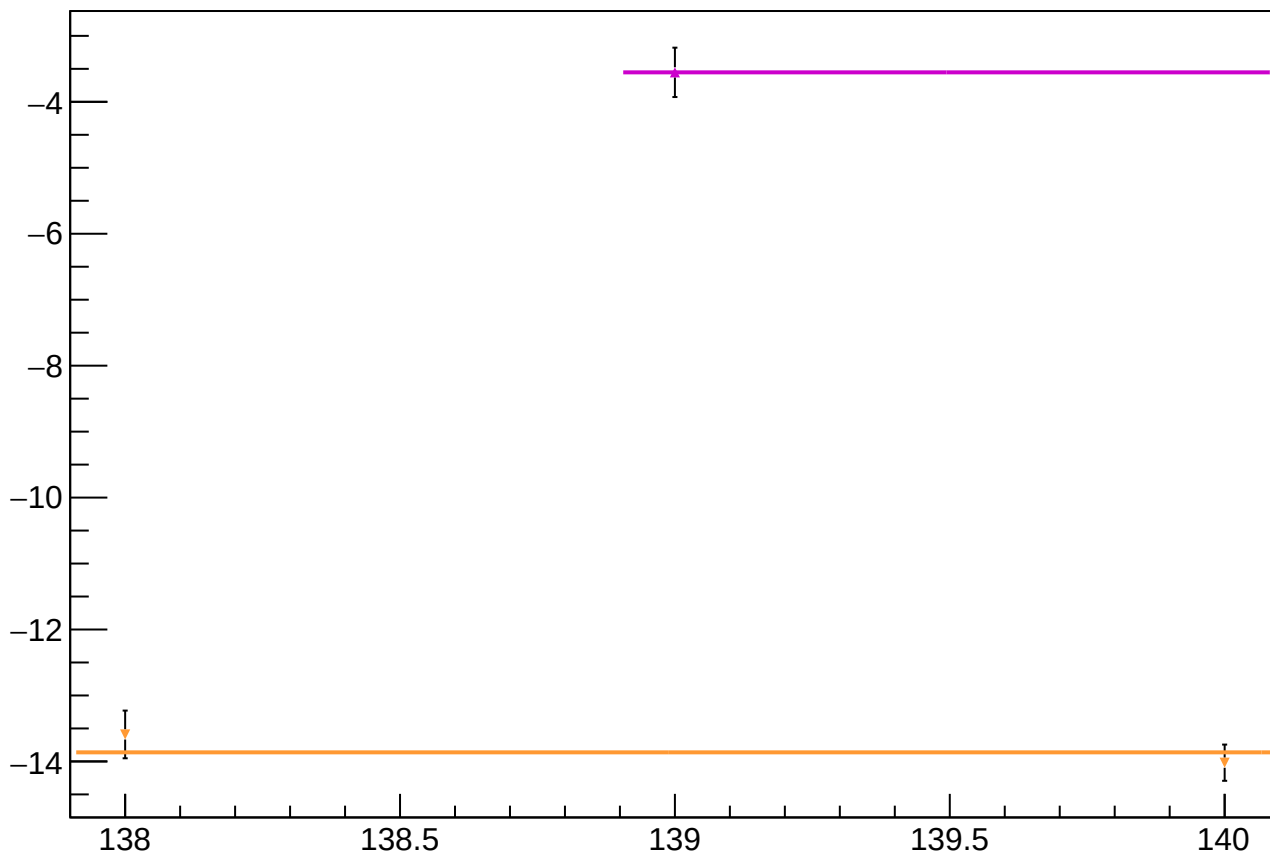


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.119+/-0.028  $\chi^2/\text{NDF}$ :24.1/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.161+/-0.039  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.133+/-0.023  $\chi^2/\text{NDF}$ : 24.9/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.161+/-0.039  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 0.119+/-0.028  $\chi^2/\text{NDF}$ :24.1/1  
 All: 0.133+/-0.023  $\chi^2/\text{NDF}$ : 24.9/2



reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-13.862 \pm 0.219$   $\chi^2/\text{NDF}$ : 0.9/1

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-3.553 \pm 0.374$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-11.238 \pm 0.189$   $\chi^2/\text{NDF}$ : 566.7/2

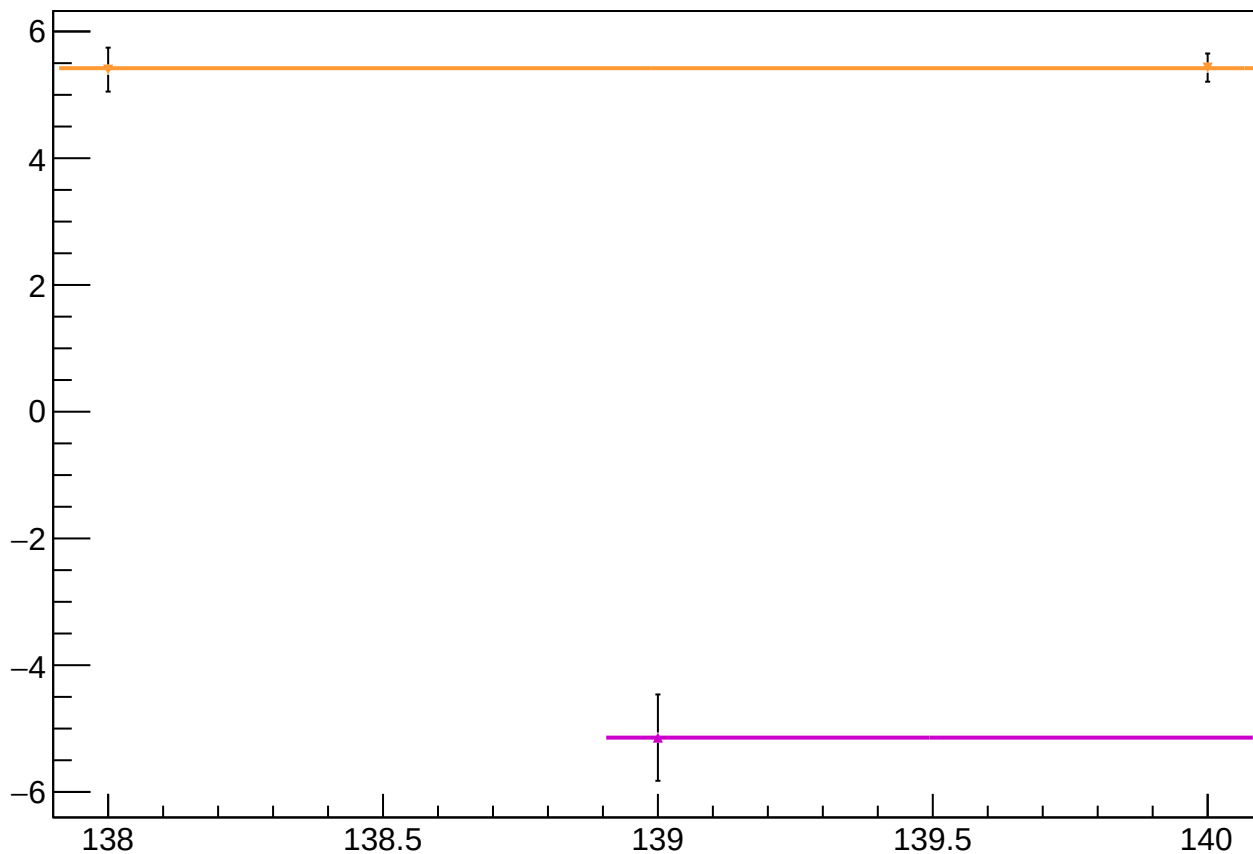
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-3.553 \pm 0.374$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $-13.862 \pm 0.219$   $\chi^2/\text{NDF}$ : 0.9/1

All:  $-11.238 \pm 0.189$   $\chi^2/\text{NDF}$ : 566.7/2

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: 5.420+/-0.187  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.143+/-0.681  $\chi^2/\text{NDF}$ : 0.0/0

Left: 4.679+/-0.180  $\chi^2/\text{NDF}$ : 223.6/2

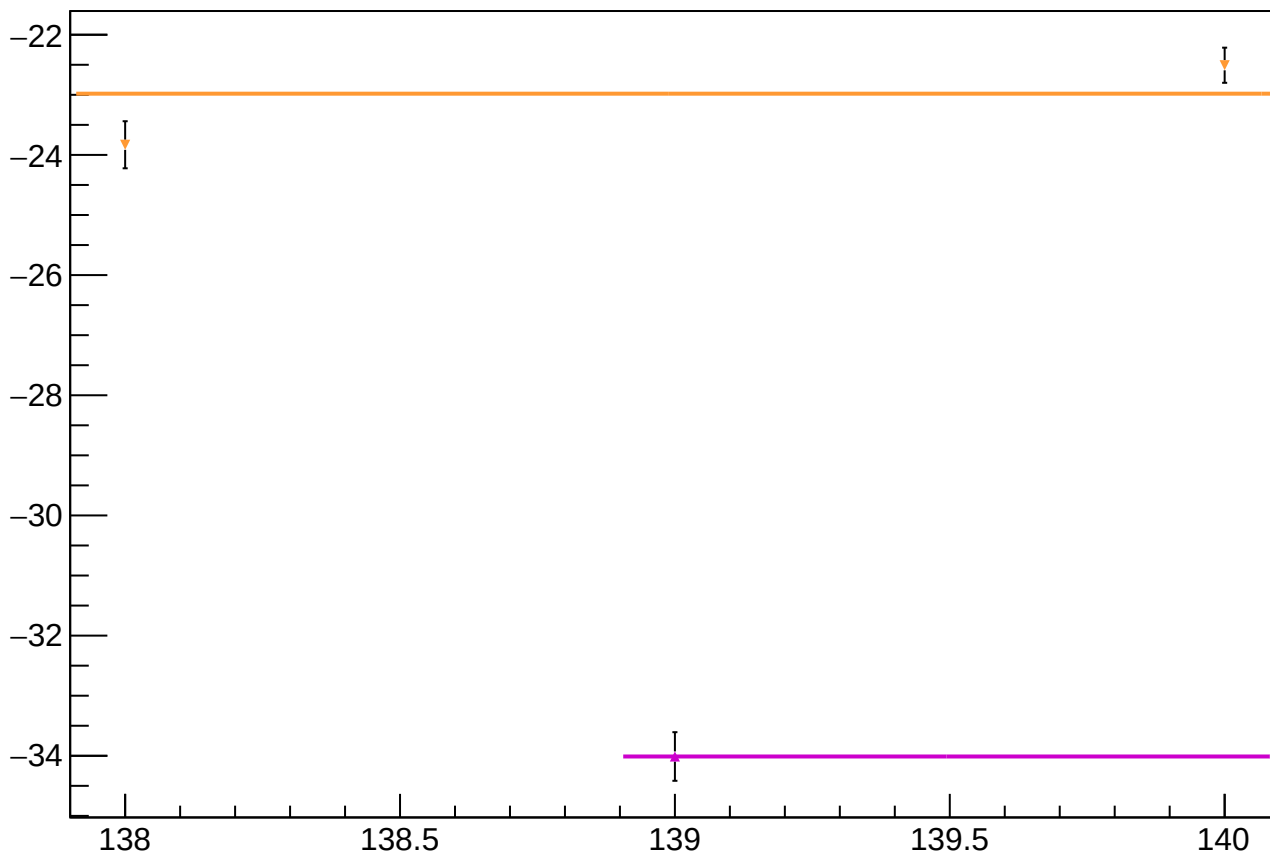
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.143+/-0.681  $\chi^2/\text{NDF}$ : 0.0/0

Out: 5.420+/-0.187  $\chi^2/\text{NDF}$ : 0.0/1

All: 4.679+/-0.180  $\chi^2/\text{NDF}$ : 223.6/2

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: -22.981+/-0.234  $\chi^2/\text{NDF}$ : 7.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -34.012+/-0.405  $\chi^2/\text{NDF}$ : 0.0/0

Left: -25.751+/-0.203  $\chi^2/\text{NDF}$ : 564.0/2

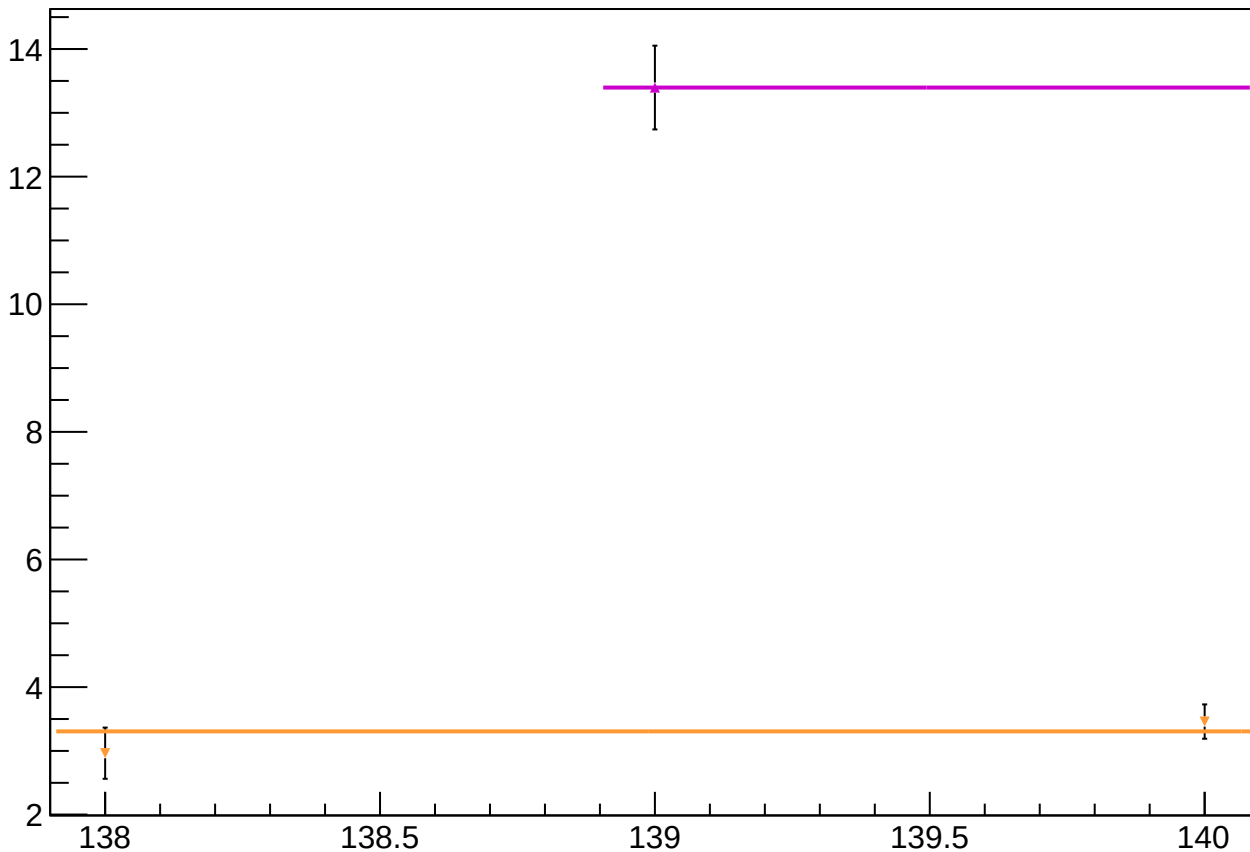
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.012+/-0.405  $\chi^2/\text{NDF}$ : 0.0/0

Out: -22.981+/-0.234  $\chi^2/\text{NDF}$ : 7.3/1

All: -25.751+/-0.203  $\chi^2/\text{NDF}$ : 564.0/2

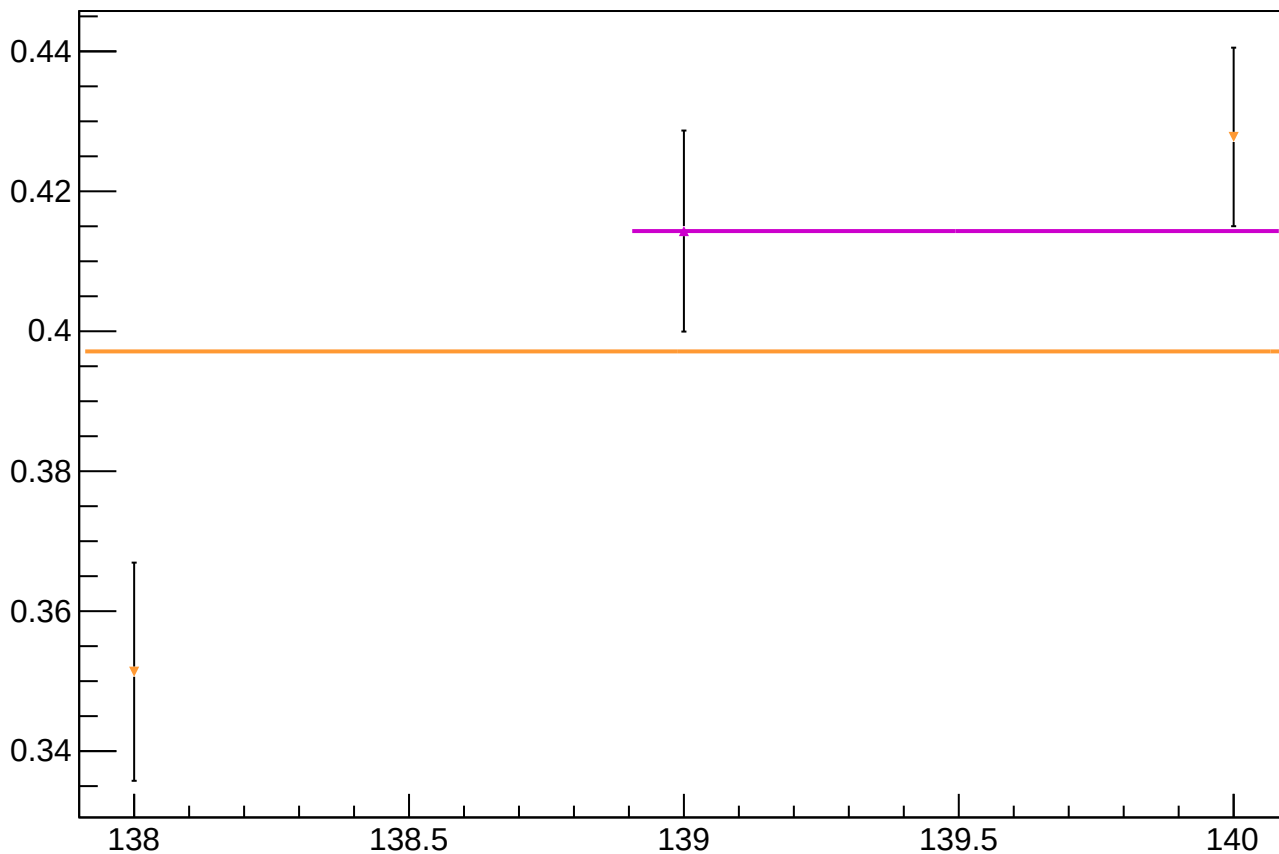
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $3.306 \pm 0.223$   $\chi^2/\text{NDF}$ : 1.1/1  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $13.396 \pm 0.656$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $4.354 \pm 0.212$   $\chi^2/\text{NDF}$ : 212.8/2  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $13.396 \pm 0.656$   $\chi^2/\text{NDF}$ : 0.0/0  
 Out:  $3.306 \pm 0.223$   $\chi^2/\text{NDF}$ : 1.1/1  
 All:  $4.354 \pm 0.212$   $\chi^2/\text{NDF}$ : 212.8/2

reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.397+/-0.010  $\chi^2/\text{NDF}$ :14.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.414+/-0.014  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.403+/-0.008  $\chi^2/\text{NDF}$ : 15.4/2

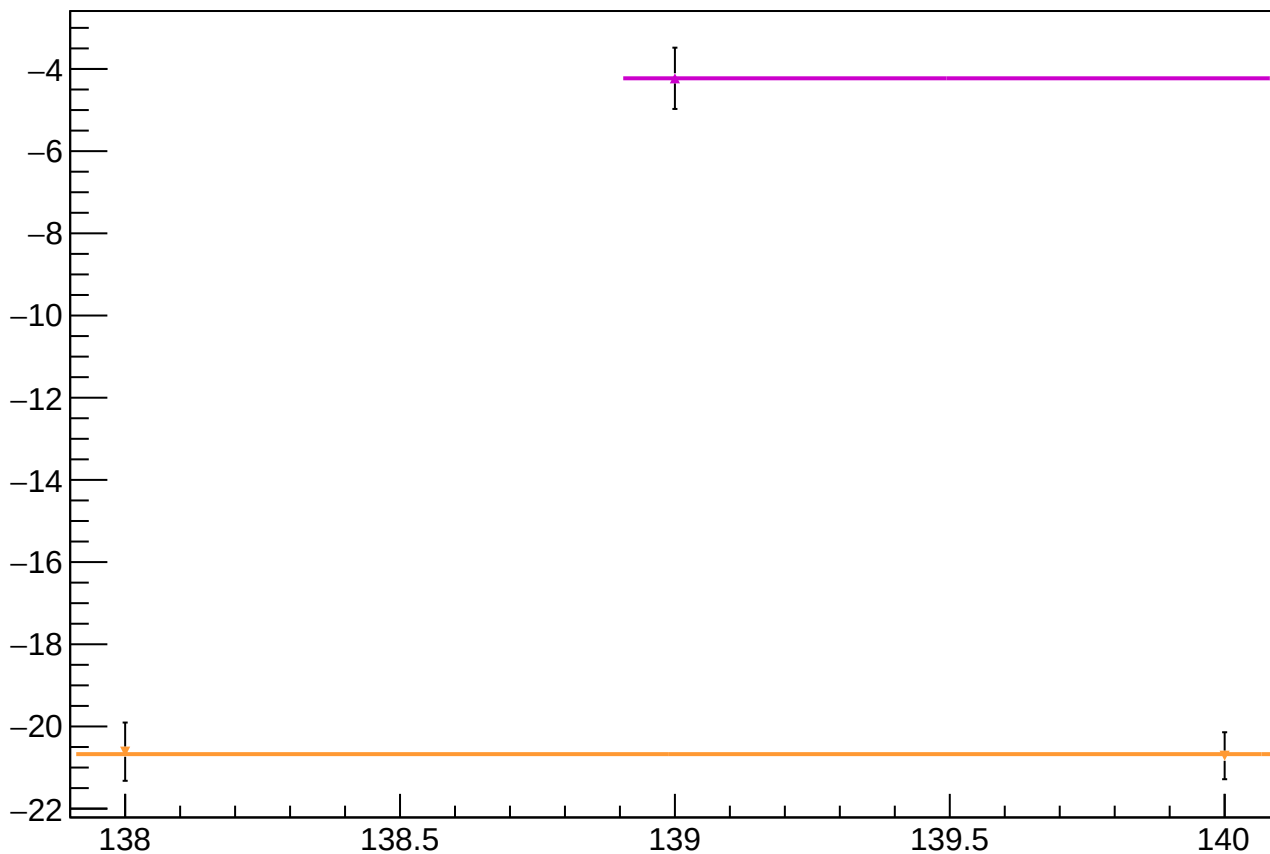
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.414+/-0.014  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.397+/-0.010  $\chi^2/\text{NDF}$ :14.4/1

All: 0.403+/-0.008  $\chi^2/\text{NDF}$ : 15.4/2

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -20.673+/-0.445  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.227+/-0.746  $\chi^2/\text{NDF}$ : 0.0/0

Left: -16.356+/-0.382  $\chi^2/\text{NDF}$ : 358.8/2

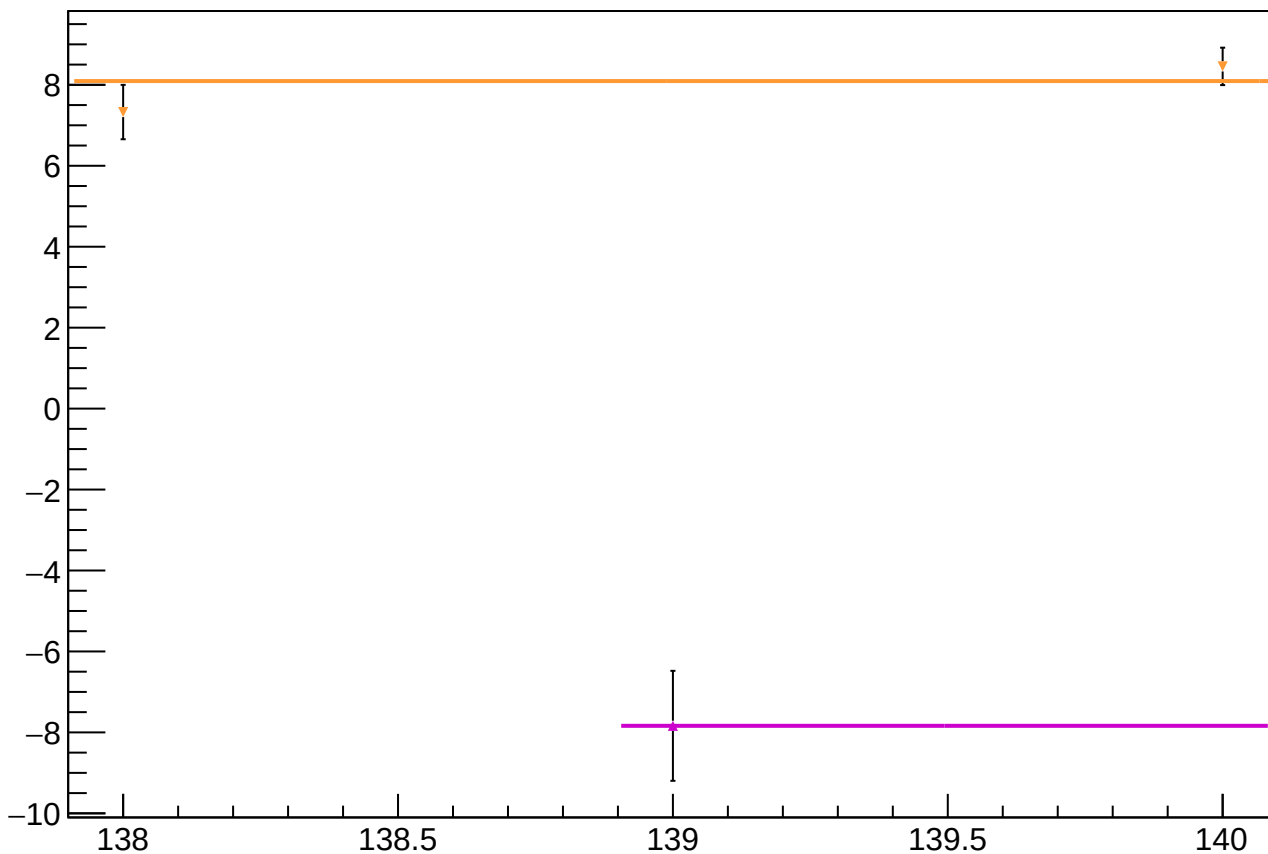
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.227+/-0.746  $\chi^2/\text{NDF}$ : 0.0/0

Out: -20.673+/-0.445  $\chi^2/\text{NDF}$ : 0.0/1

All: -16.356+/-0.382  $\chi^2/\text{NDF}$ : 358.8/2

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: 8.093+/-0.381  $\chi^2/\text{NDF}$ : 1.9/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -7.837+/-1.359  $\chi^2/\text{NDF}$ : 0.0/0

Left: 6.932+/-0.367  $\chi^2/\text{NDF}$ : 129.4/2

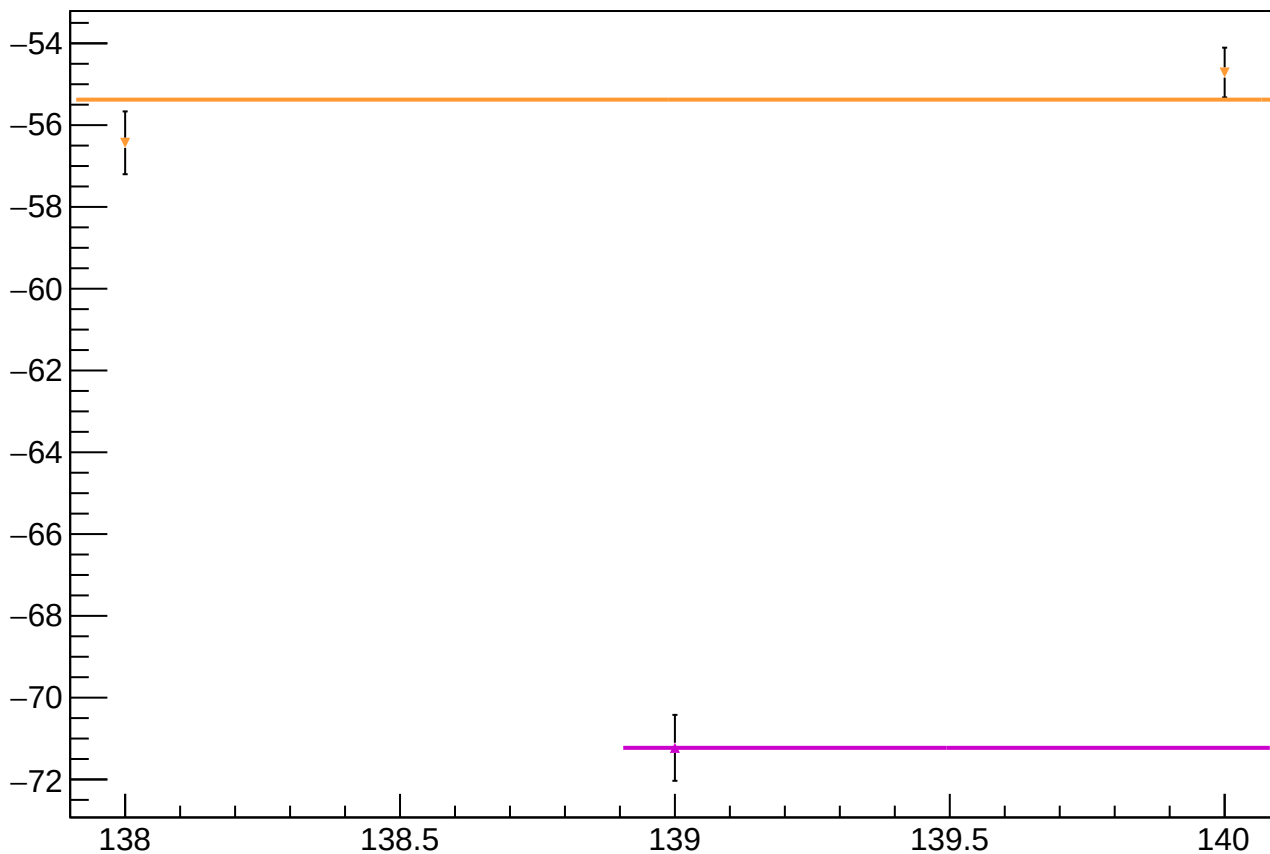
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -7.837+/-1.359  $\chi^2/\text{NDF}$ : 0.0/0

Out: 8.093+/-0.381  $\chi^2/\text{NDF}$ : 1.9/1

All: 6.932+/-0.367  $\chi^2/\text{NDF}$ : 129.4/2

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: -55.377+/-0.477  $\chi^2/\text{NDF}$ : 3.1/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -71.227+/-0.806  $\chi^2/\text{NDF}$ : 0.0/0

Left: -59.486+/-0.410  $\chi^2/\text{NDF}$ : 289.6/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

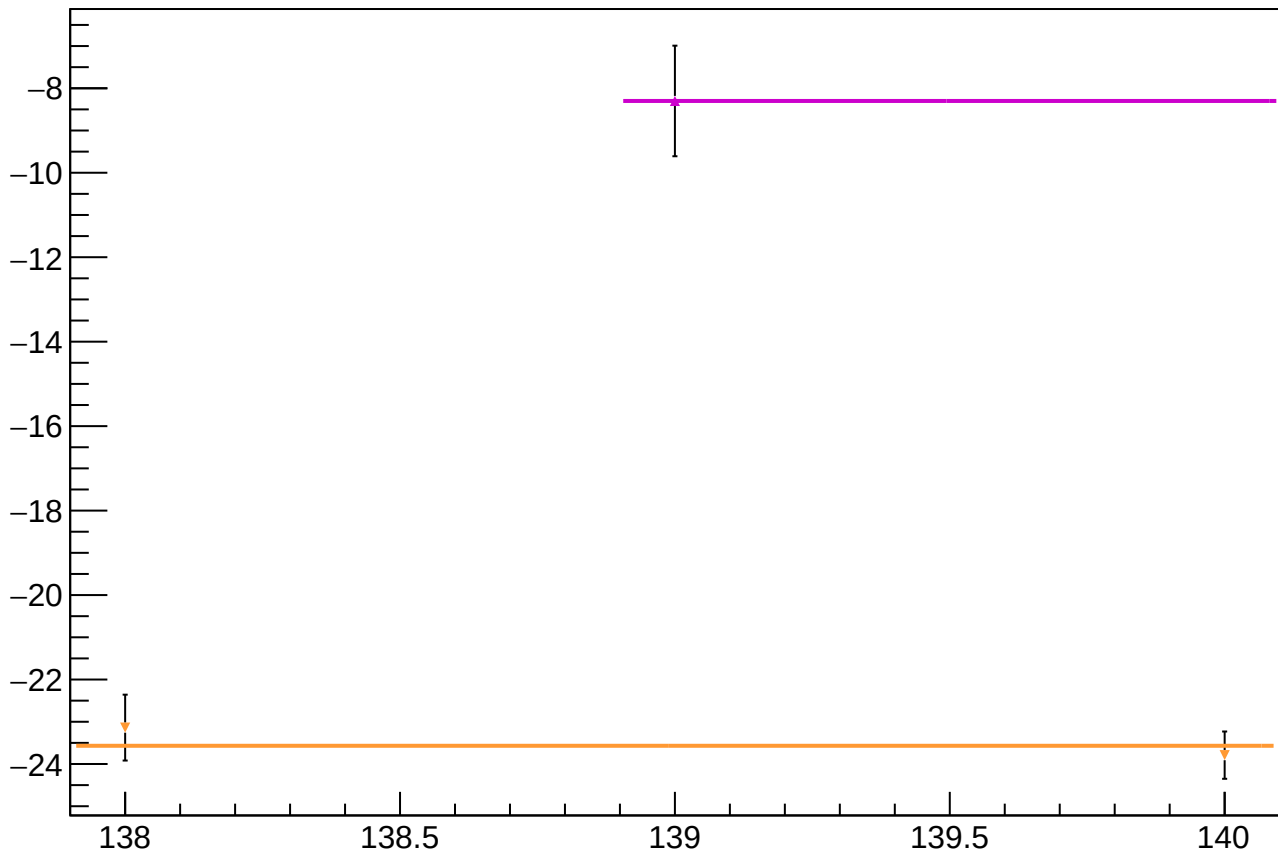
In: -71.227+/-0.806  $\chi^2/\text{NDF}$ : 0.0/0

Out: -55.377+/-0.477  $\chi^2/\text{NDF}$ : 3.1/1

All: -59.486+/-0.410  $\chi^2/\text{NDF}$ : 289.6/2



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: -23.569+/-0.455  $\chi^2/\text{NDF}$ : 0.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -8.300+/-1.309  $\chi^2/\text{NDF}$ : 0.0/0

Left: -21.924+/-0.430  $\chi^2/\text{NDF}$ : 121.8/2

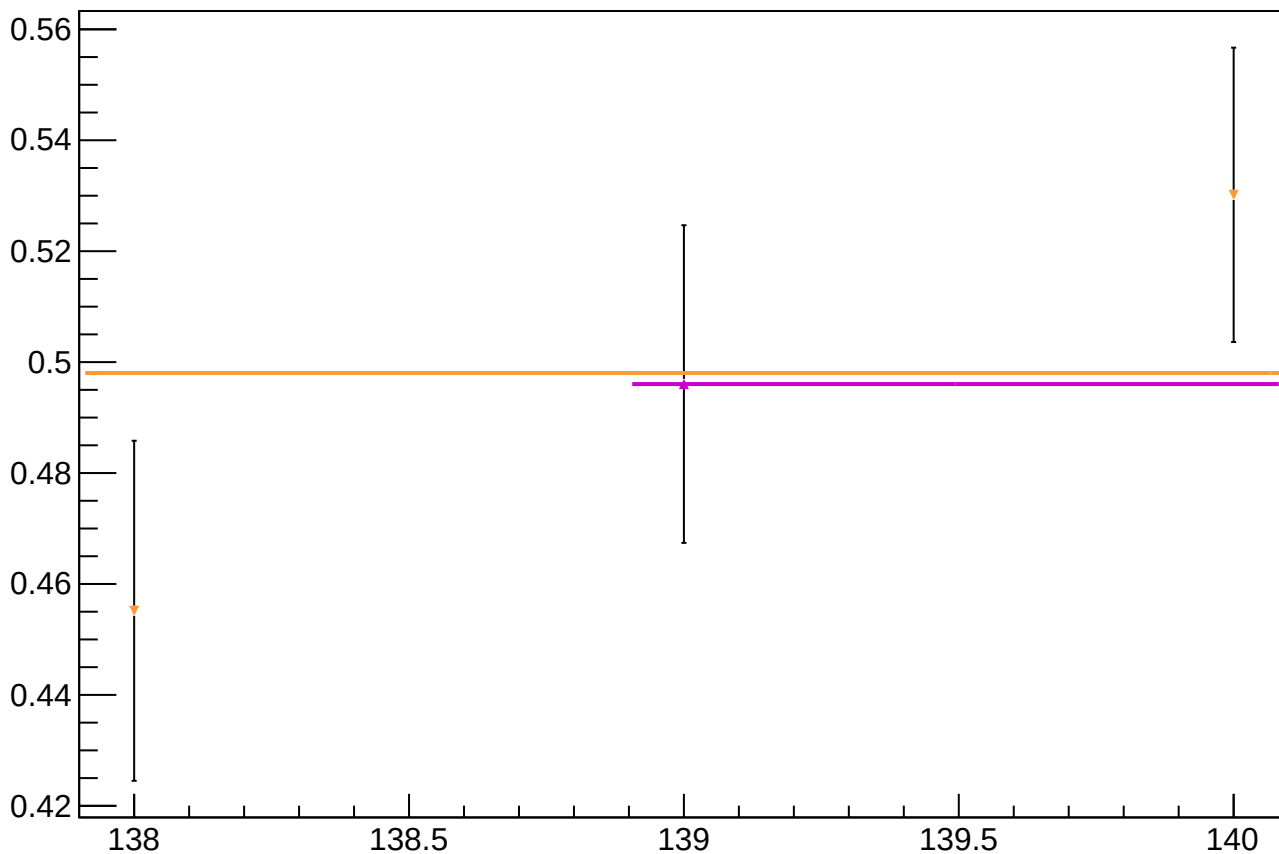
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.300+/-1.309  $\chi^2/\text{NDF}$ : 0.0/0

Out: -23.569+/-0.455  $\chi^2/\text{NDF}$ : 0.5/1

All: -21.924+/-0.430  $\chi^2/\text{NDF}$ : 121.8/2

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.498+/-0.020  $\chi^2/\text{NDF}$ : 3.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.496+/-0.029  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.497+/-0.016  $\chi^2/\text{NDF}$ : 3.4/2

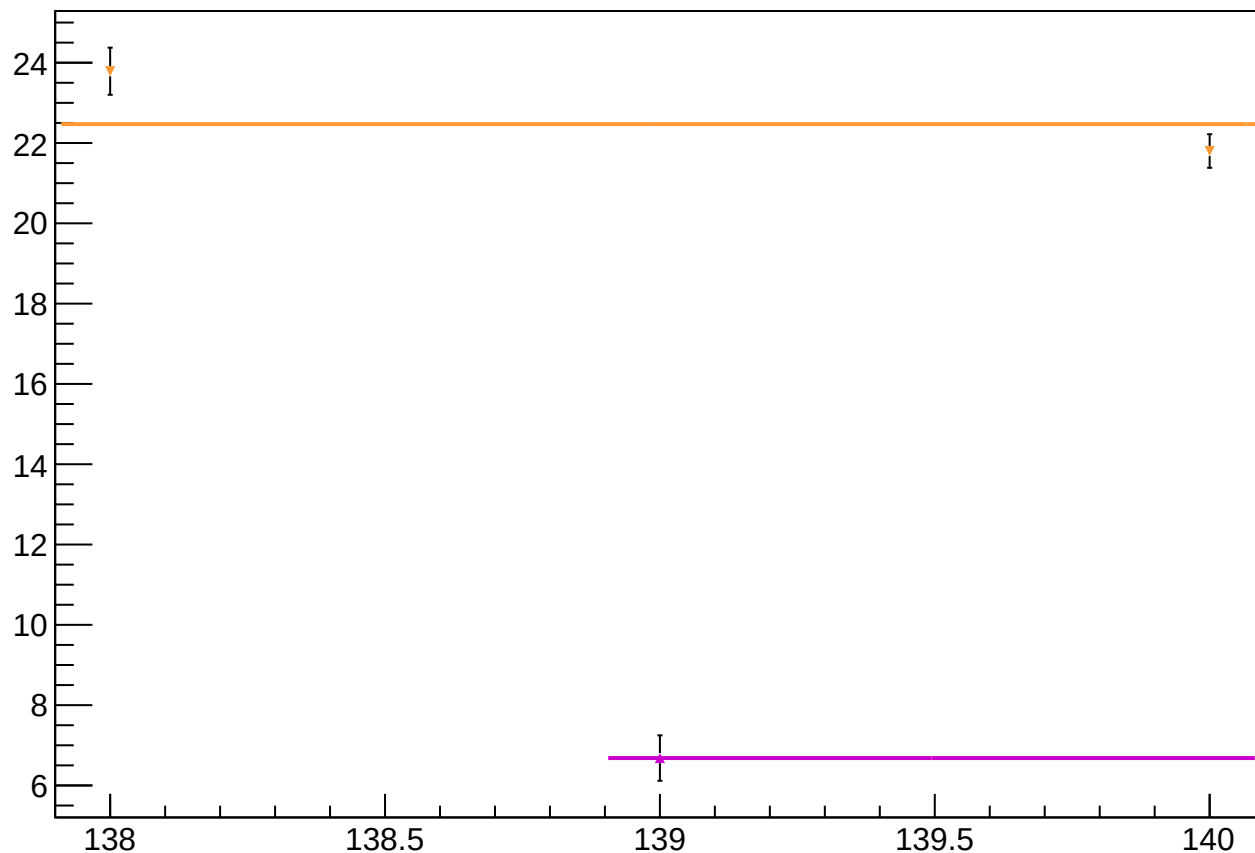
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.496+/-0.029  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.498+/-0.020  $\chi^2/\text{NDF}$ : 3.4/1

All: 0.497+/-0.016  $\chi^2/\text{NDF}$ : 3.4/2

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 22.471+/-0.341  $\chi^2/\text{NDF}$ : 7.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6.682+/-0.566  $\chi^2/\text{NDF}$ : 0.0/0

Left: 18.277+/-0.292  $\chi^2/\text{NDF}$ : 578.3/2

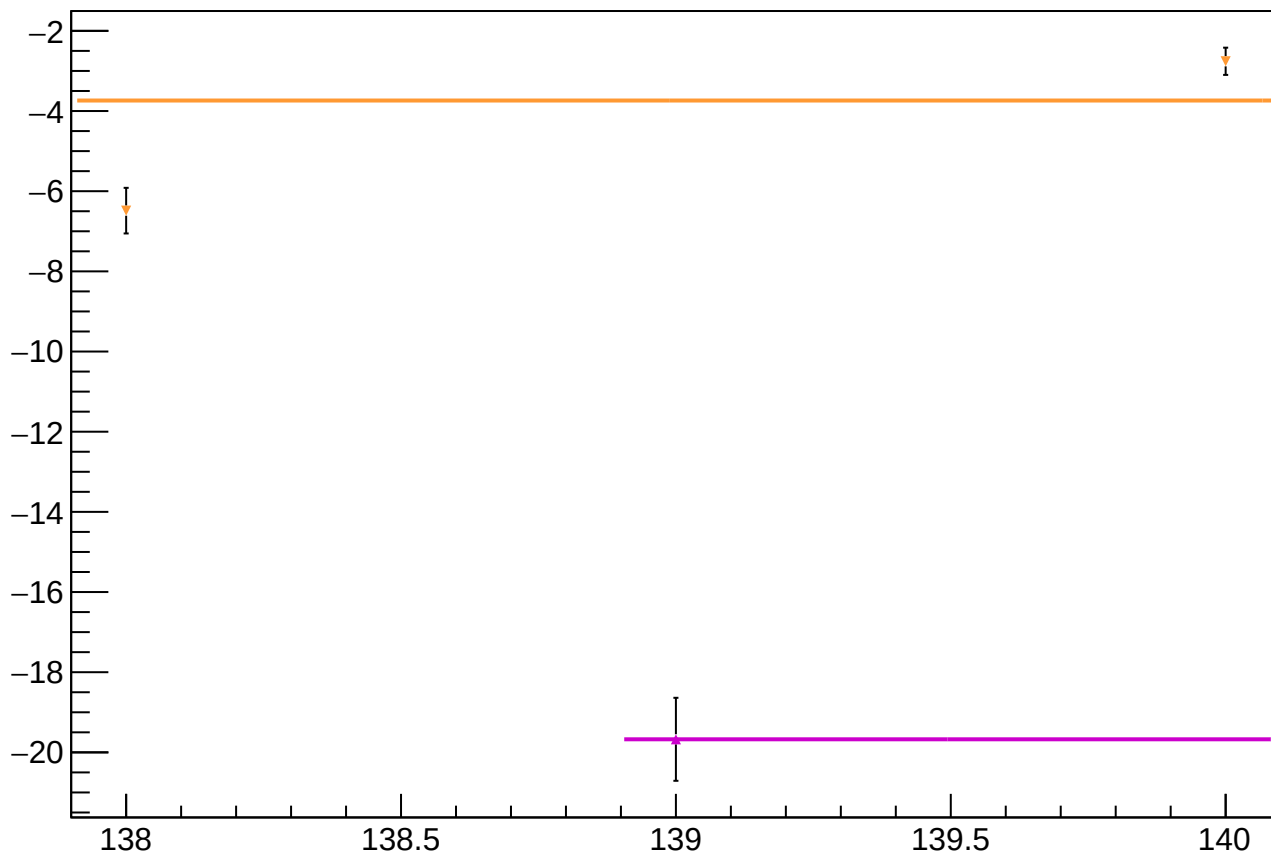
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6.682+/-0.566  $\chi^2/\text{NDF}$ : 0.0/0

Out: 22.471+/-0.341  $\chi^2/\text{NDF}$ : 7.6/1

All: 18.277+/-0.292  $\chi^2/\text{NDF}$ : 578.3/2

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: -3.738+/-0.292  $\chi^2/\text{NDF}$ :31.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.674+/-1.035  $\chi^2/\text{NDF}$ :0.0/0

Left: -4.909+/-0.281  $\chi^2/\text{NDF}$ : 251.1/2

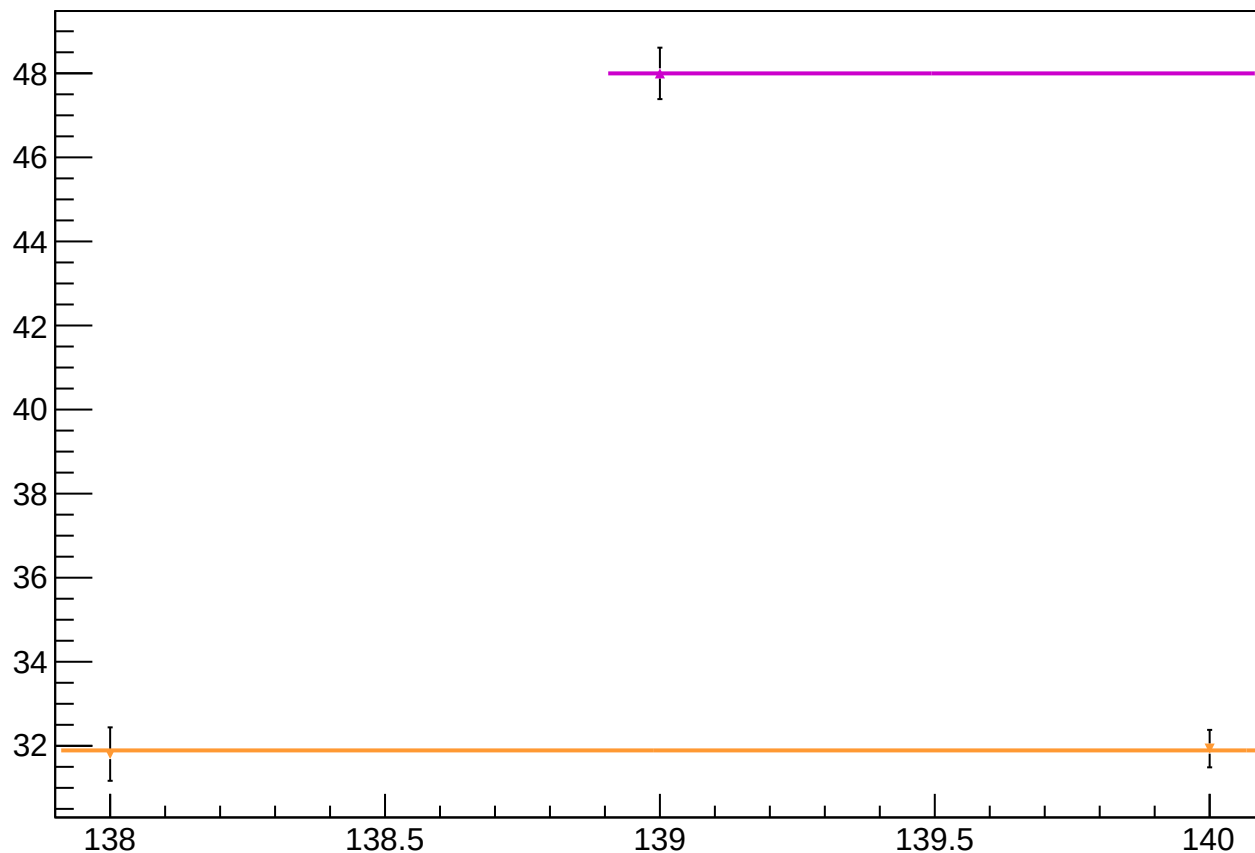
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.674+/-1.035  $\chi^2/\text{NDF}$ :0.0/0

Out: -3.738+/-0.292  $\chi^2/\text{NDF}$ :31.6/1

All: -4.909+/-0.281  $\chi^2/\text{NDF}$ : 251.1/2

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: 31.891+/-0.365  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 47.998+/-0.612  $\chi^2/\text{NDF}$ : 0.0/0

Left: 36.115+/-0.313  $\chi^2/\text{NDF}$ : 511.2/2

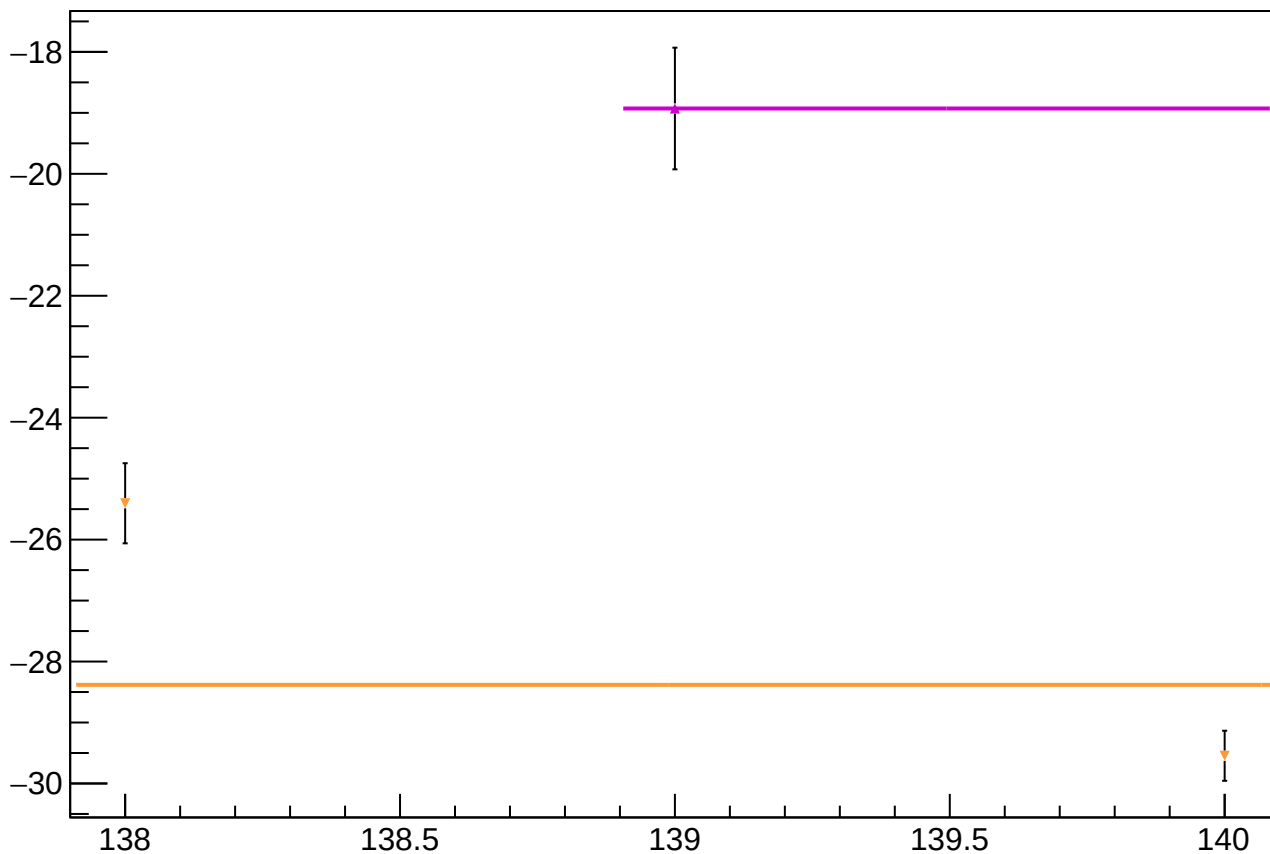
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 47.998+/-0.612  $\chi^2/\text{NDF}$ : 0.0/0

Out: 31.891+/-0.365  $\chi^2/\text{NDF}$ : 0.0/1

All: 36.115+/-0.313  $\chi^2/\text{NDF}$ : 511.2/2

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: -28.382+/-0.348  $\chi^2/\text{NDF}$ : 28.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.929+/-0.998  $\chi^2/\text{NDF}$ : 0.0/0

Left: -27.356+/-0.329  $\chi^2/\text{NDF}$ : 108.6/2

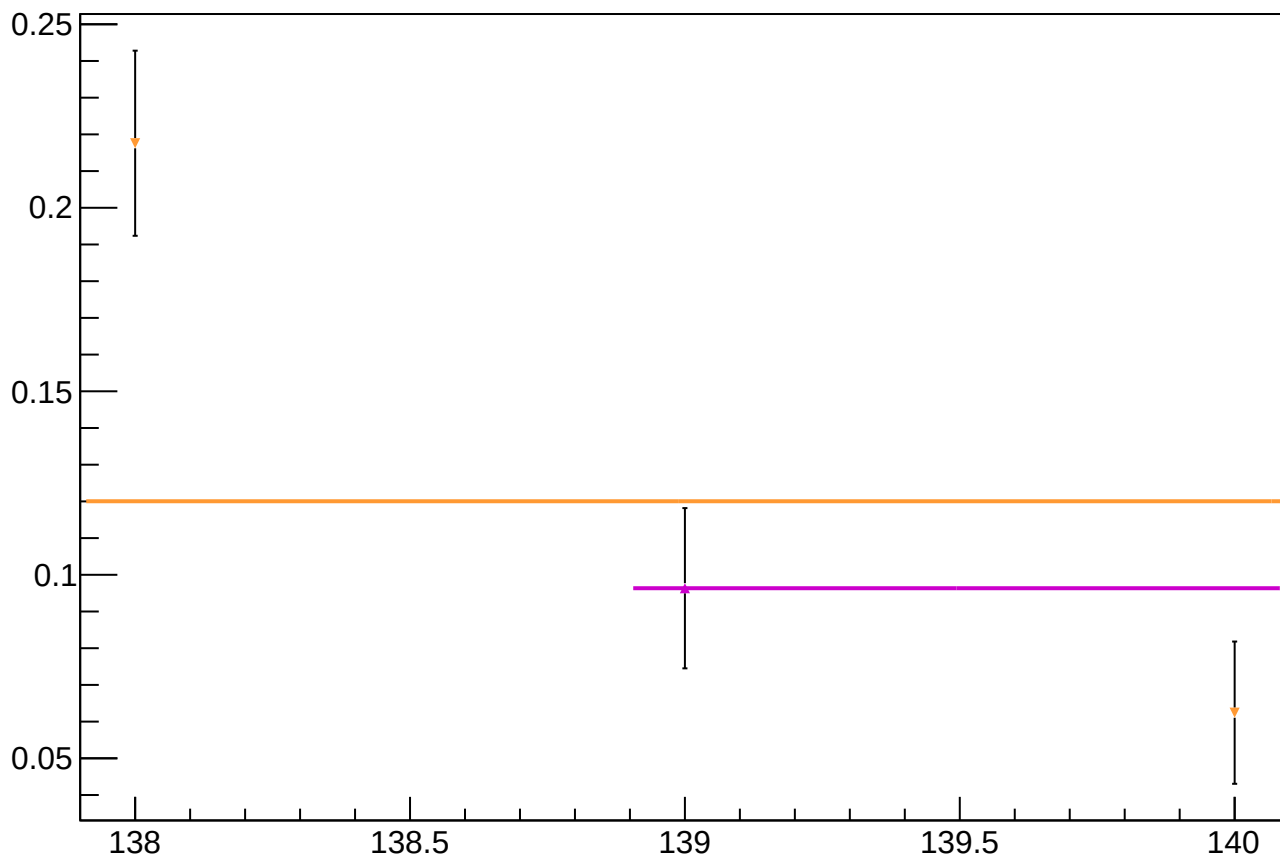
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.929+/-0.998  $\chi^2/\text{NDF}$ : 0.0/0

Out: -28.382+/-0.348  $\chi^2/\text{NDF}$ : 28.6/1

All: -27.356+/-0.329  $\chi^2/\text{NDF}$ : 108.6/2

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: 0.120 $\pm$ 0.015  $\chi^2$ /NDF:23.8/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.096 $\pm$ 0.022  $\chi^2$ /NDF:0.0/0

Left: 0.112 $\pm$ 0.013  $\chi^2$ /NDF: 24.6/2

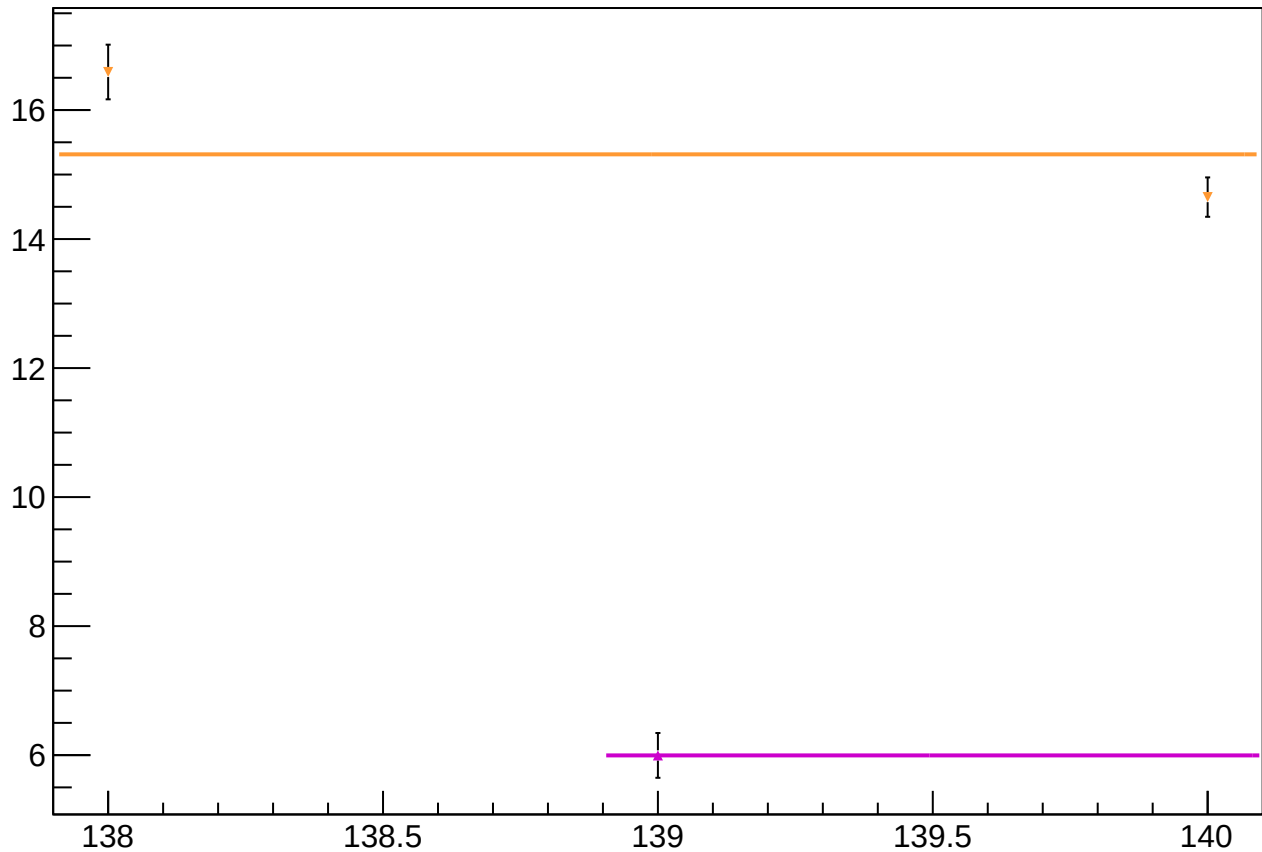
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.096 $\pm$ 0.022  $\chi^2$ /NDF:0.0/0

Out: 0.120 $\pm$ 0.015  $\chi^2$ /NDF:23.8/1

All: 0.112 $\pm$ 0.013  $\chi^2$ /NDF: 24.6/2

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 ± 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.313 ± 0.248  $\chi^2/\text{NDF}$ : 13.8/1

Right Out: 0.000 ± 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.996 ± 0.347  $\chi^2/\text{NDF}$ : 0.0/0

Left: 12.170 ± 0.202  $\chi^2/\text{NDF}$ : 491.1/2

Right: 0.000 ± 0.000  $\chi^2/\text{NDF}$ : 0.0/0

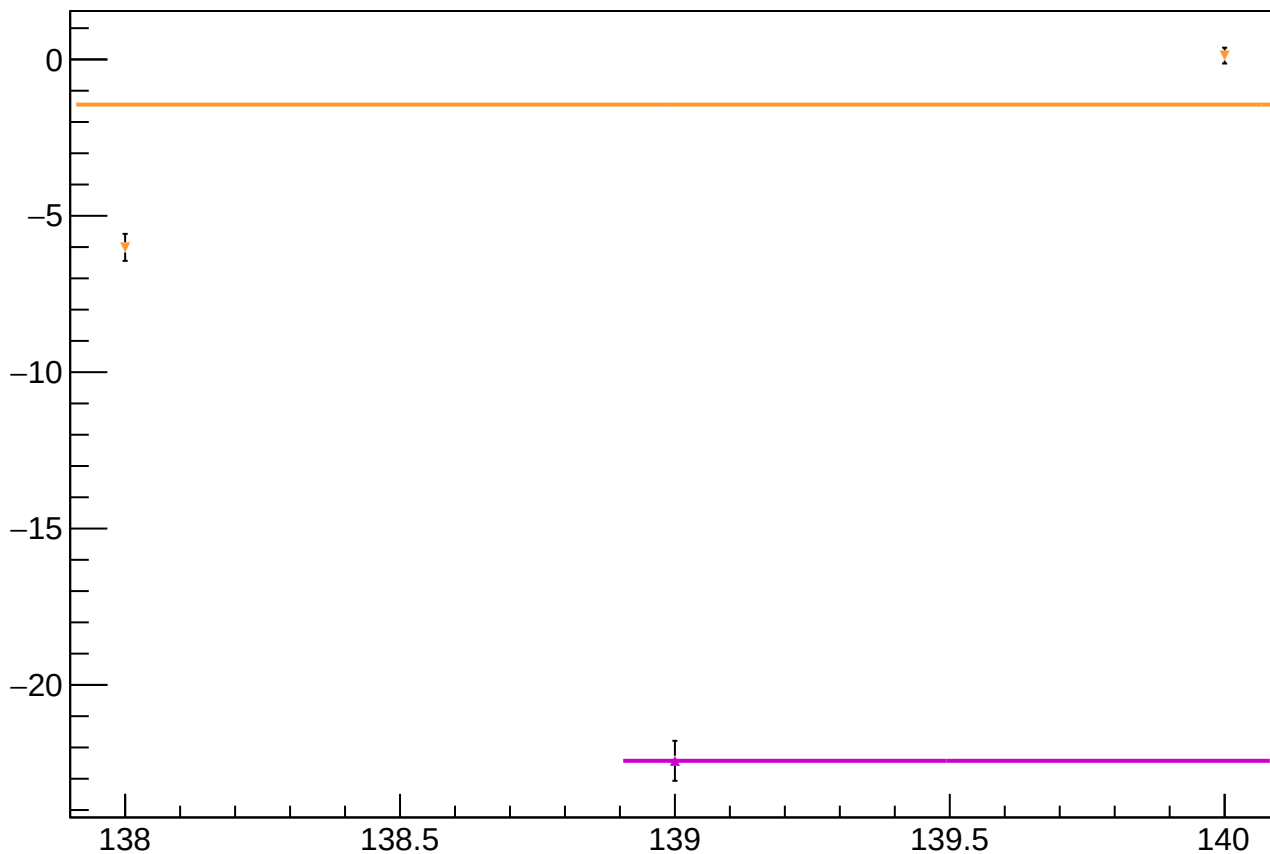
In: 5.996 ± 0.347  $\chi^2/\text{NDF}$ : 0.0/0

Out: 15.313 ± 0.248  $\chi^2/\text{NDF}$ : 13.8/1

All: 12.170 ± 0.202  $\chi^2/\text{NDF}$ : 491.1/2



reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

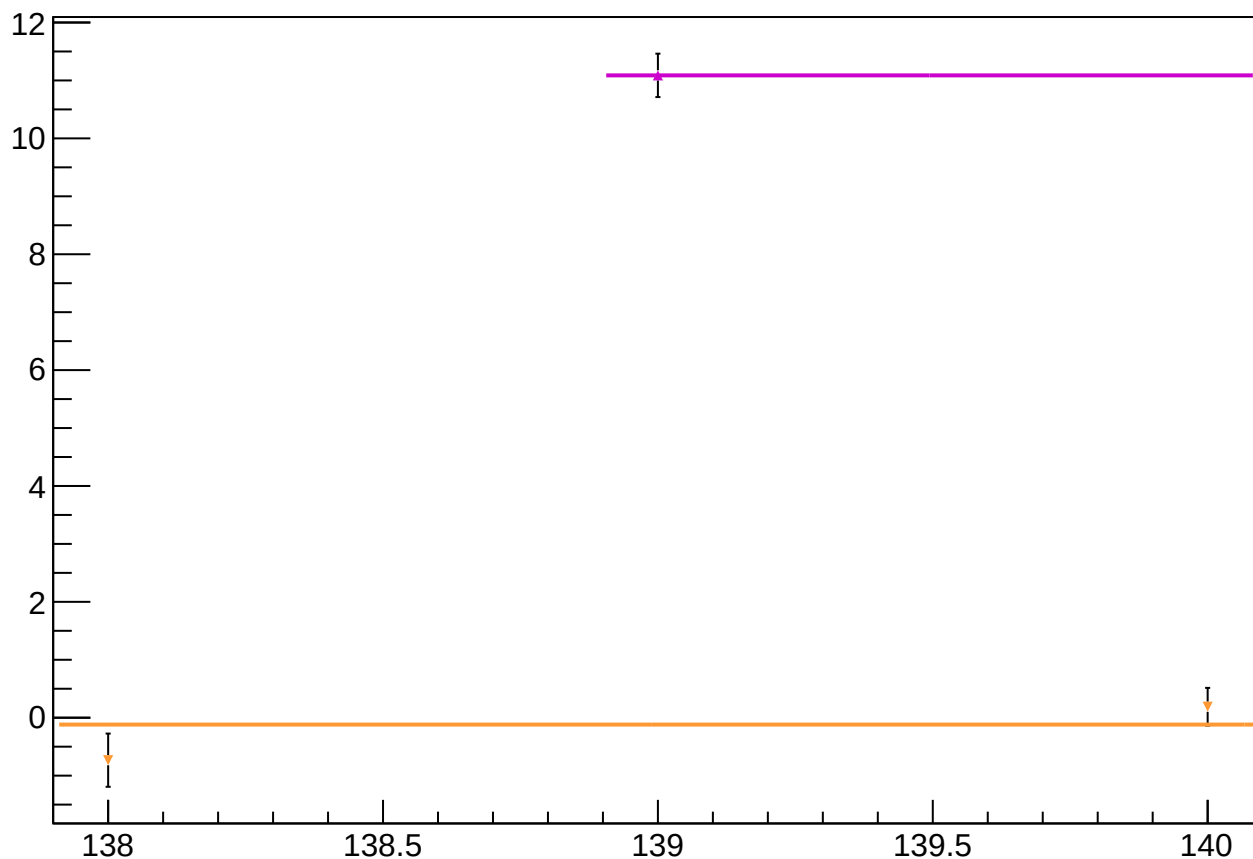


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.443+/-0.218  $\chi^2/\text{NDF}$ :150.4/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.427+/-0.639  $\chi^2/\text{NDF}$ :0.0/0

Left: -3.633+/-0.206  $\chi^2/\text{NDF}$ : 1116.3/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -22.427+/-0.639  $\chi^2/\text{NDF}$ :0.0/0  
 Out: -1.443+/-0.218  $\chi^2/\text{NDF}$ :150.4/1

All: -3.633+/-0.206  $\chi^2/\text{NDF}$ : 1116.3/2

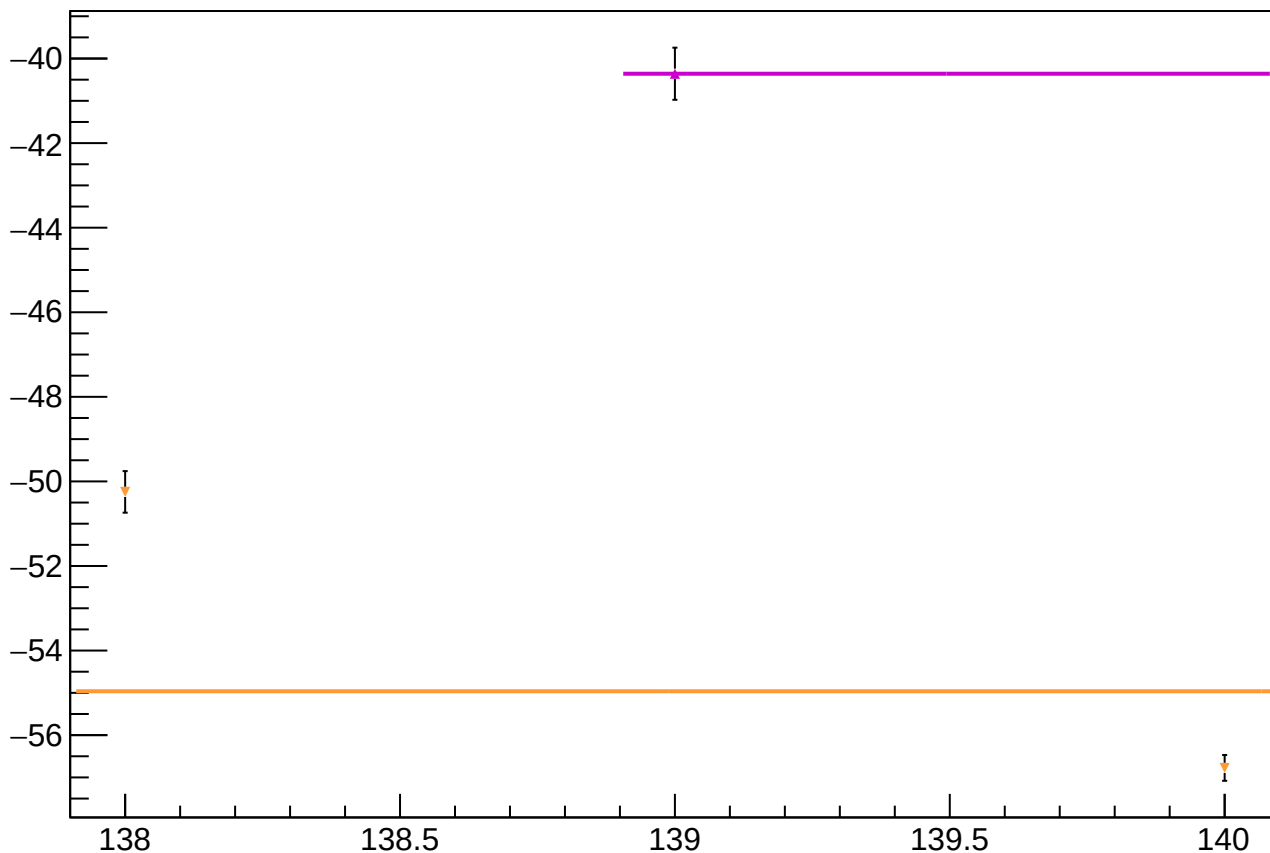
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.119±/-0.265  $\chi^2/\text{NDF}$ : 2.7/1  
 Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.088±/-0.375  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3.628±/-0.217  $\chi^2/\text{NDF}$ : 598.4/2  
 Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.088±/-0.375  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: -0.119±/-0.265  $\chi^2/\text{NDF}$ : 2.7/1  
 All: 3.628±/-0.217  $\chi^2/\text{NDF}$ : 598.4/2

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -54.963+/-0.259  $\chi^2/\text{NDF}$ :127.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -40.359+/-0.616  $\chi^2/\text{NDF}$ :0.0/0

Left: -52.770+/-0.239  $\chi^2/\text{NDF}$ : 604.5/2

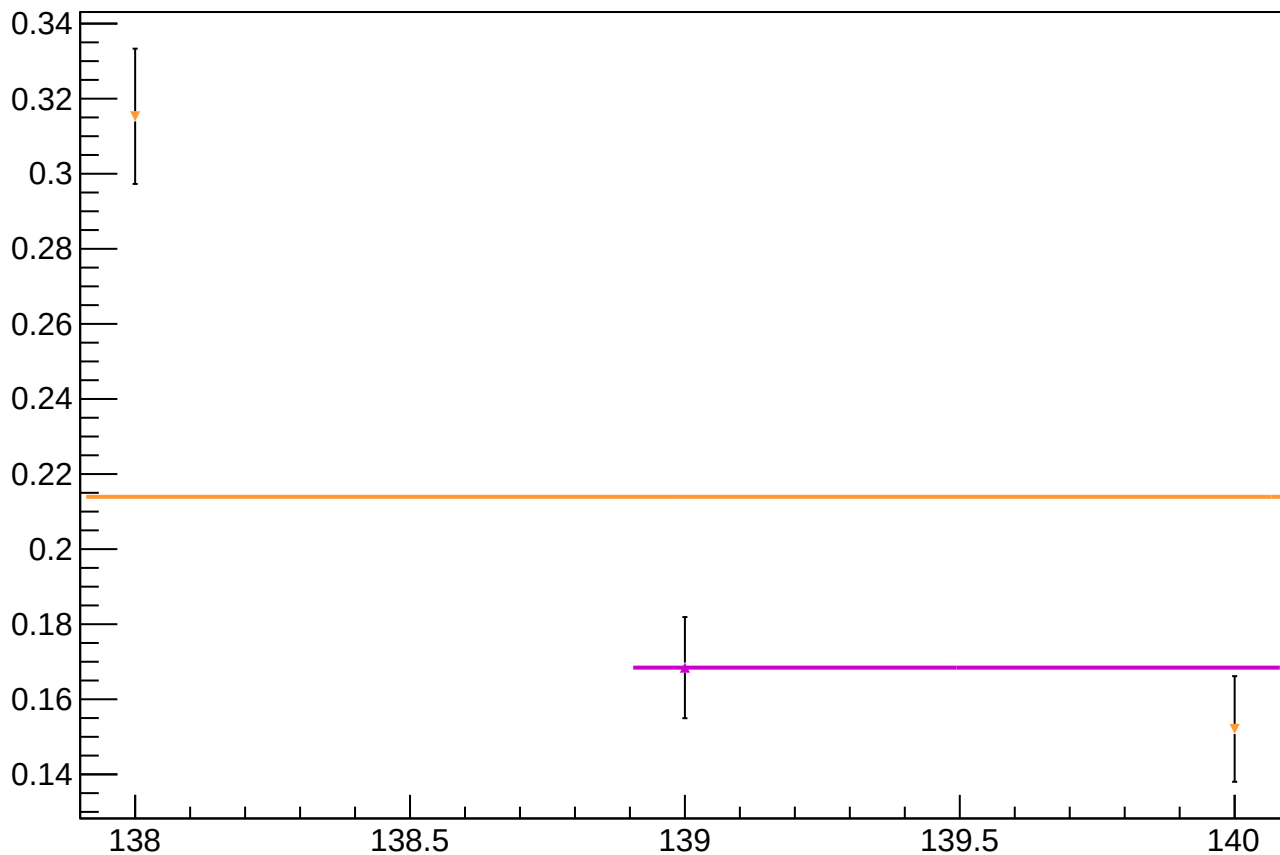
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.359+/-0.616  $\chi^2/\text{NDF}$ :0.0/0

Out: -54.963+/-0.259  $\chi^2/\text{NDF}$ :127.3/1

All: -52.770+/-0.239  $\chi^2/\text{NDF}$ : 604.5/2

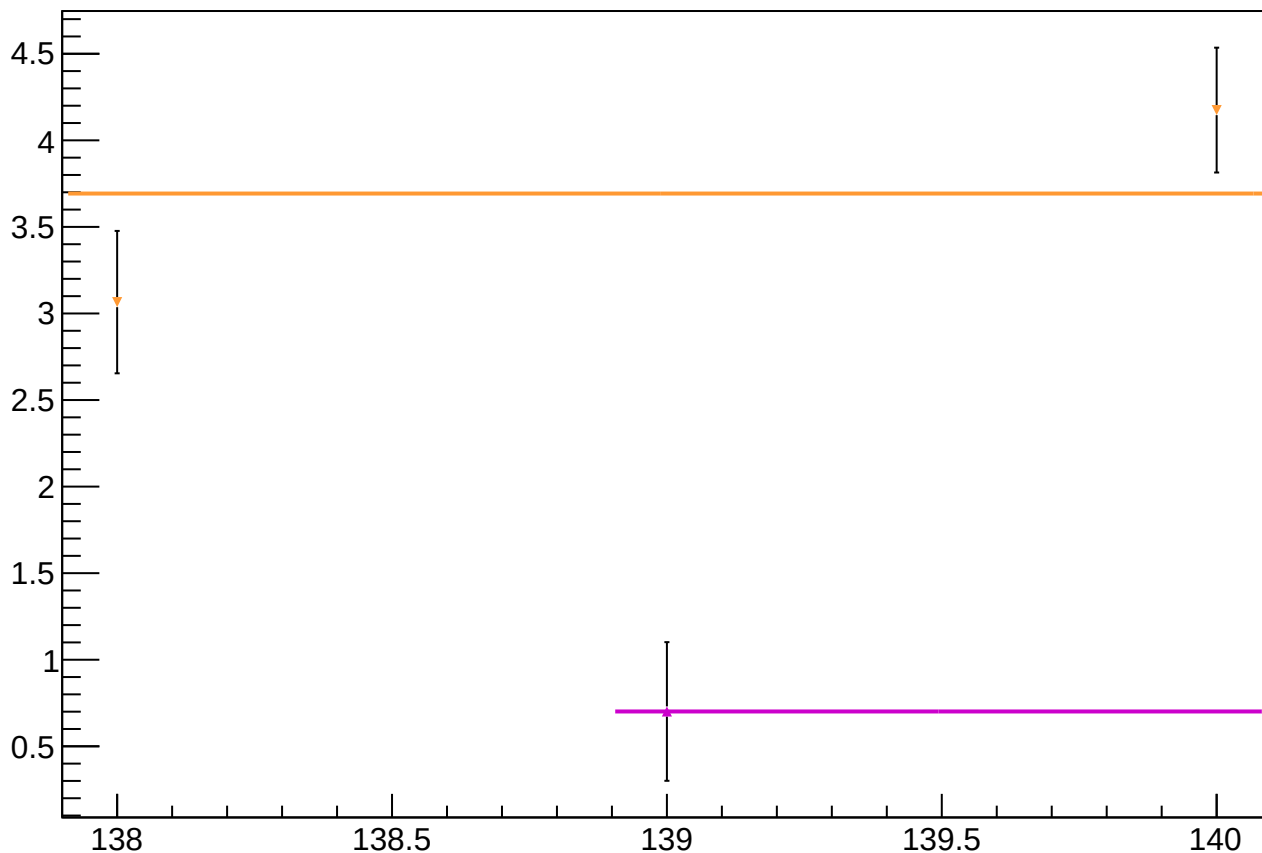
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.214 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 51.0/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.168 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.196 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 57.8/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.168 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.214 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 51.0/1  
 All: 0.196 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 57.8/2

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: 3.693+/-0.271  $\chi^2/\text{NDF}$ : 4.1/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.701+/-0.400  $\chi^2/\text{NDF}$ : 0.0/0

Left: 2.753+/-0.224  $\chi^2/\text{NDF}$ : 42.4/2

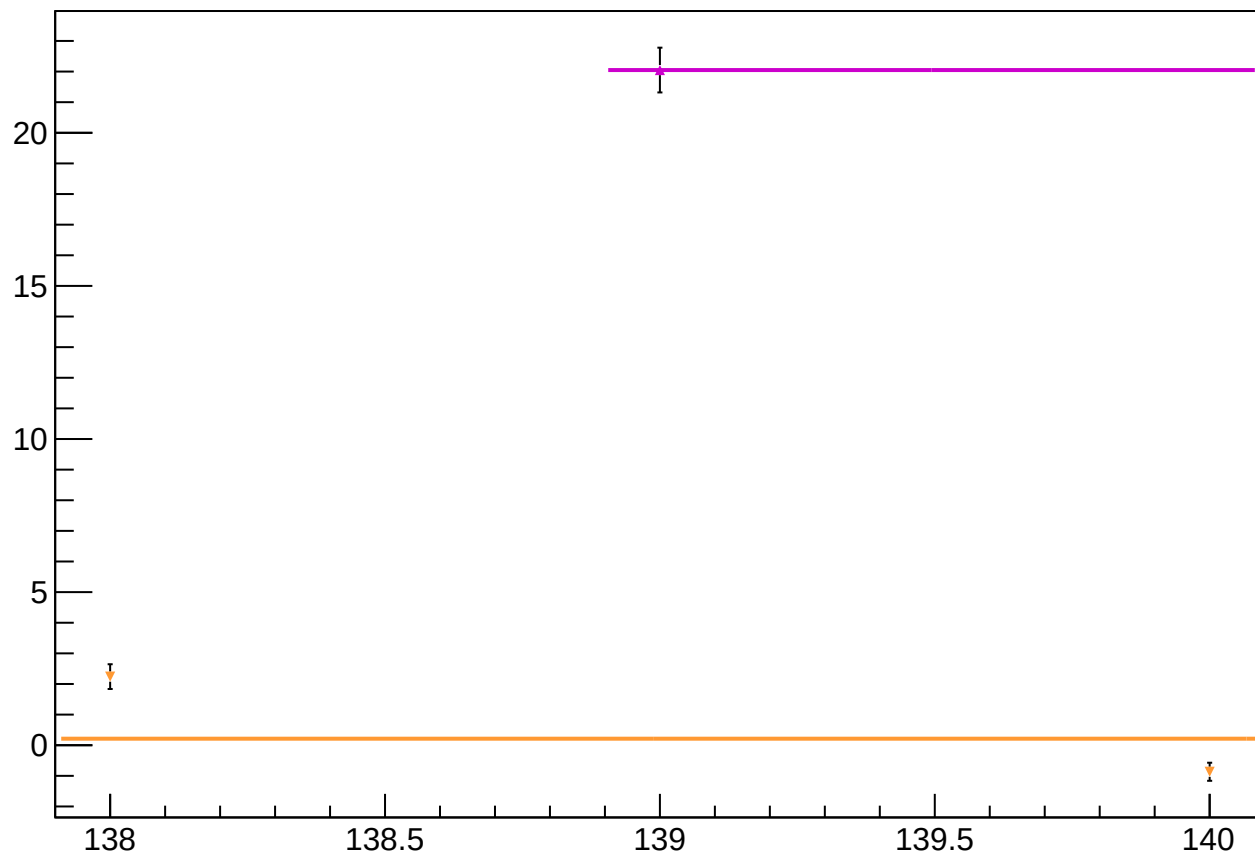
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.701+/-0.400  $\chi^2/\text{NDF}$ : 0.0/0

Out: 3.693+/-0.271  $\chi^2/\text{NDF}$ : 4.1/1

All: 2.753+/-0.224  $\chi^2/\text{NDF}$ : 42.4/2

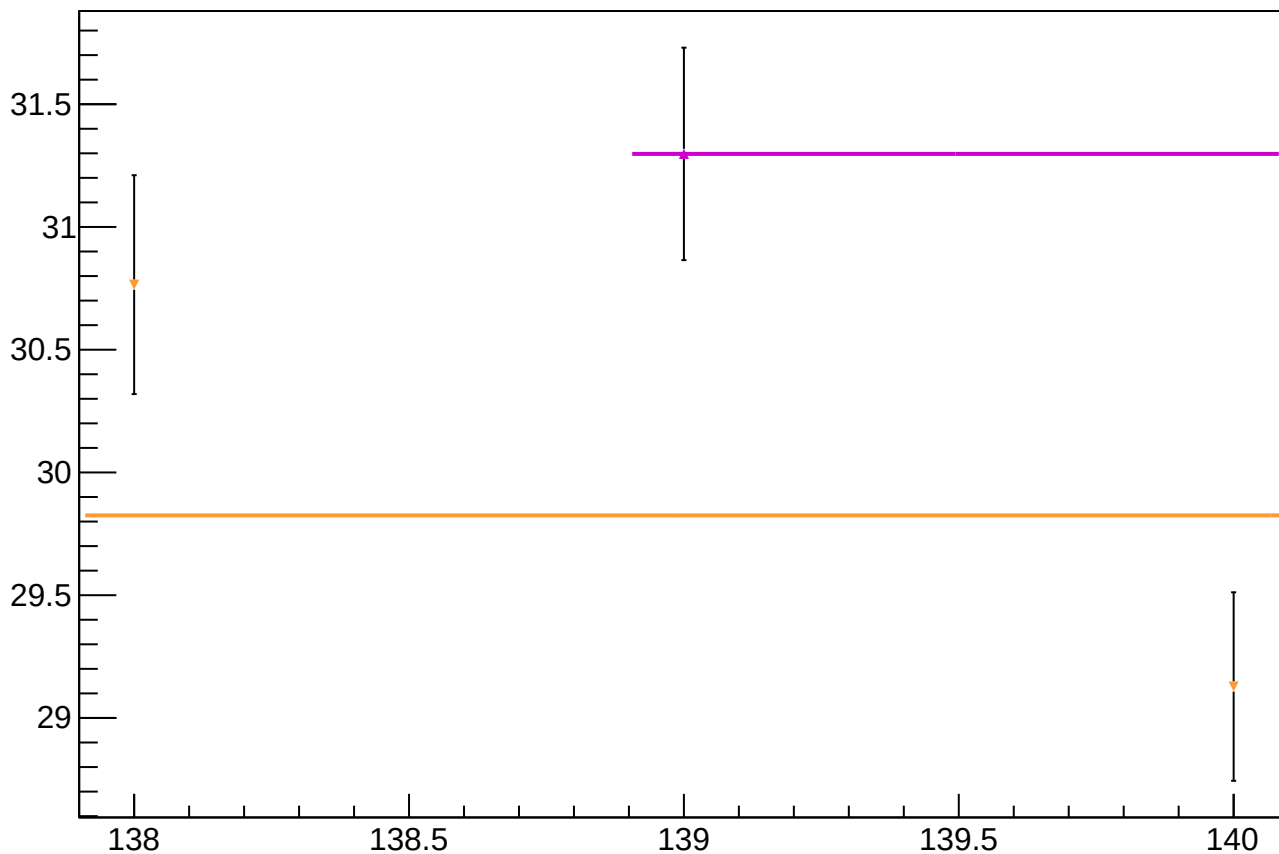
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.214 $\pm$ 0.238  $\chi^2$ /NDF:38.6/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 22.049 $\pm$ 0.731  $\chi^2$ /NDF:0.0/0

Left: 2.311 $\pm$ 0.227  $\chi^2$ /NDF: 845.0/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 22.049 $\pm$ 0.731  $\chi^2$ /NDF:0.0/0  
 Out: 0.214 $\pm$ 0.238  $\chi^2$ /NDF:38.6/1  
 All: 2.311 $\pm$ 0.227  $\chi^2$ /NDF: 845.0/2

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 29.825 $\pm$ 0.291  $\chi^2$ /NDF:7.7/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 31.298 $\pm$ 0.433  $\chi^2$ /NDF:0.0/0

Left: 30.284 $\pm$ 0.241  $\chi^2$ /NDF: 15.7/2

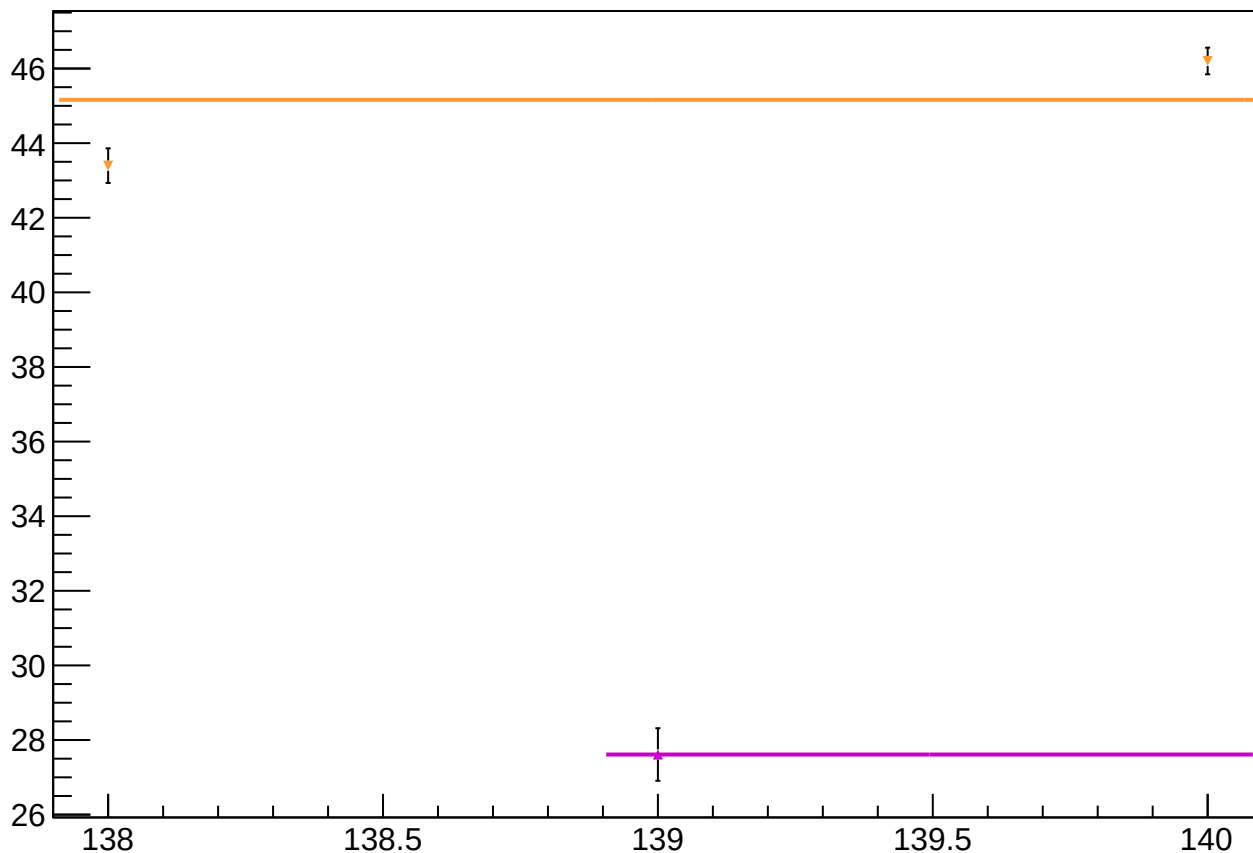
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 31.298 $\pm$ 0.433  $\chi^2$ /NDF:0.0/0

Out: 29.825 $\pm$ 0.291  $\chi^2$ /NDF:7.7/1

All: 30.284 $\pm$ 0.241  $\chi^2$ /NDF: 15.7/2

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: 45.161+/-0.283  $\chi^2/\text{NDF}$ :22.9/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 27.612+/-0.705  $\chi^2/\text{NDF}$ :0.0/0

Left: 42.723+/-0.263  $\chi^2/\text{NDF}$ : 557.1/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

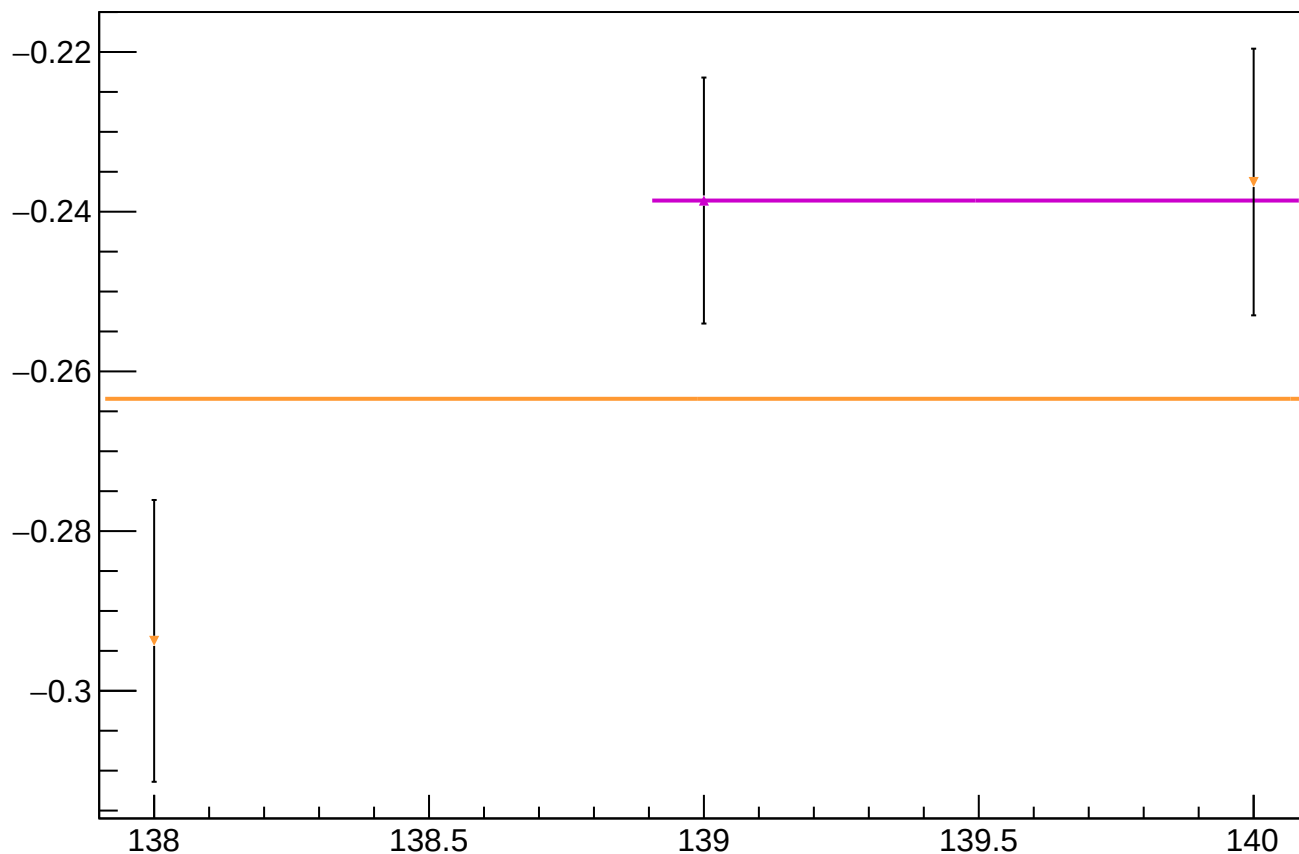
In: 27.612+/-0.705  $\chi^2/\text{NDF}$ :0.0/0

Out: 45.161+/-0.283  $\chi^2/\text{NDF}$ :22.9/1

All: 42.723+/-0.263  $\chi^2/\text{NDF}$ : 557.1/2



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: -0.263+/-0.012  $\chi^2/\text{NDF}$ : 5.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.239+/-0.015  $\chi^2/\text{NDF}$ : 0.0/0

Left: -0.254+/-0.010  $\chi^2/\text{NDF}$ : 7.2/2

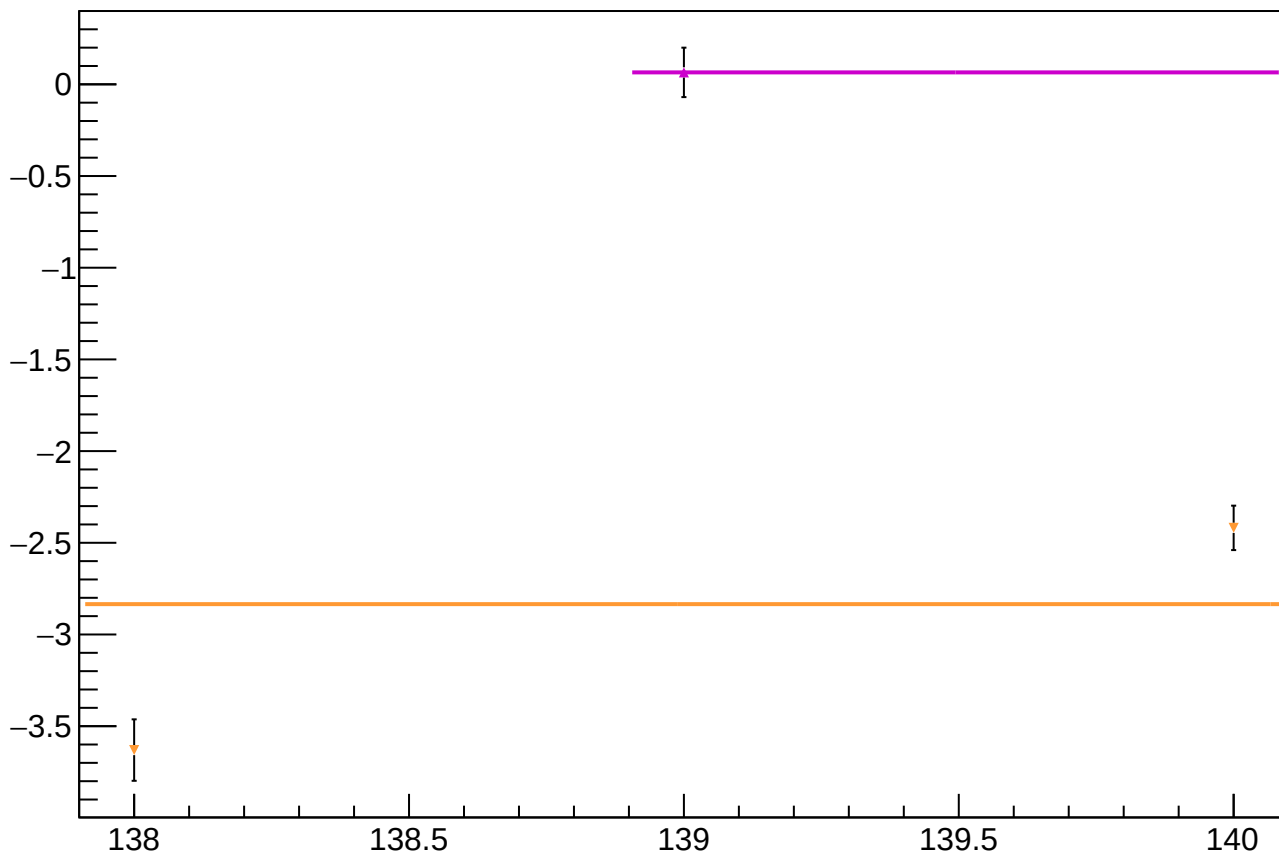
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.239+/-0.015  $\chi^2/\text{NDF}$ : 0.0/0

Out: -0.263+/-0.012  $\chi^2/\text{NDF}$ : 5.6/1

All: -0.254+/-0.010  $\chi^2/\text{NDF}$ : 7.2/2

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2.835+/-0.098  $\chi^2/\text{NDF}$ : 34.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.065+/-0.135  $\chi^2/\text{NDF}$ : 0.0/0

Left: -1.830+/-0.079  $\chi^2/\text{NDF}$ : 336.8/2

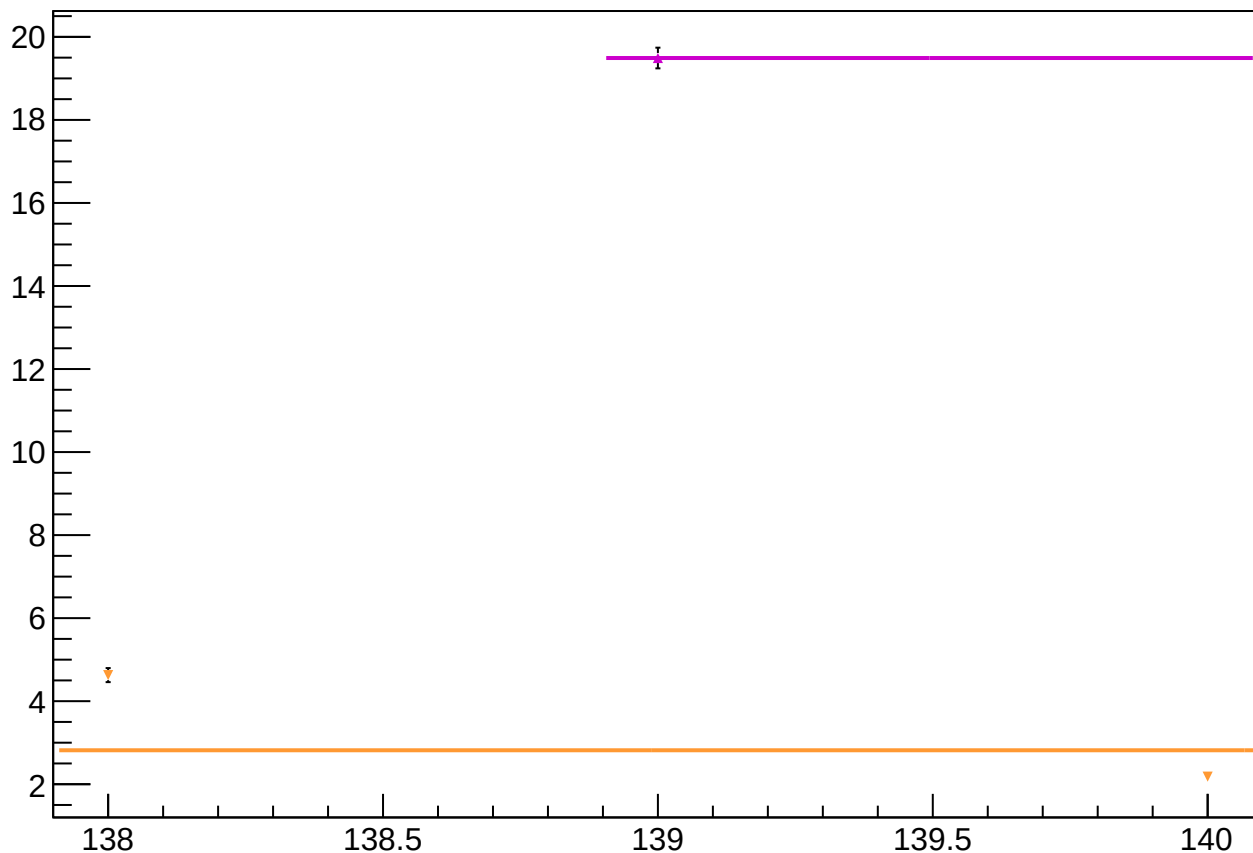
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.065+/-0.135  $\chi^2/\text{NDF}$ : 0.0/0

Out: -2.835+/-0.098  $\chi^2/\text{NDF}$ : 34.4/1

All: -1.830+/-0.079  $\chi^2/\text{NDF}$ : 336.8/2

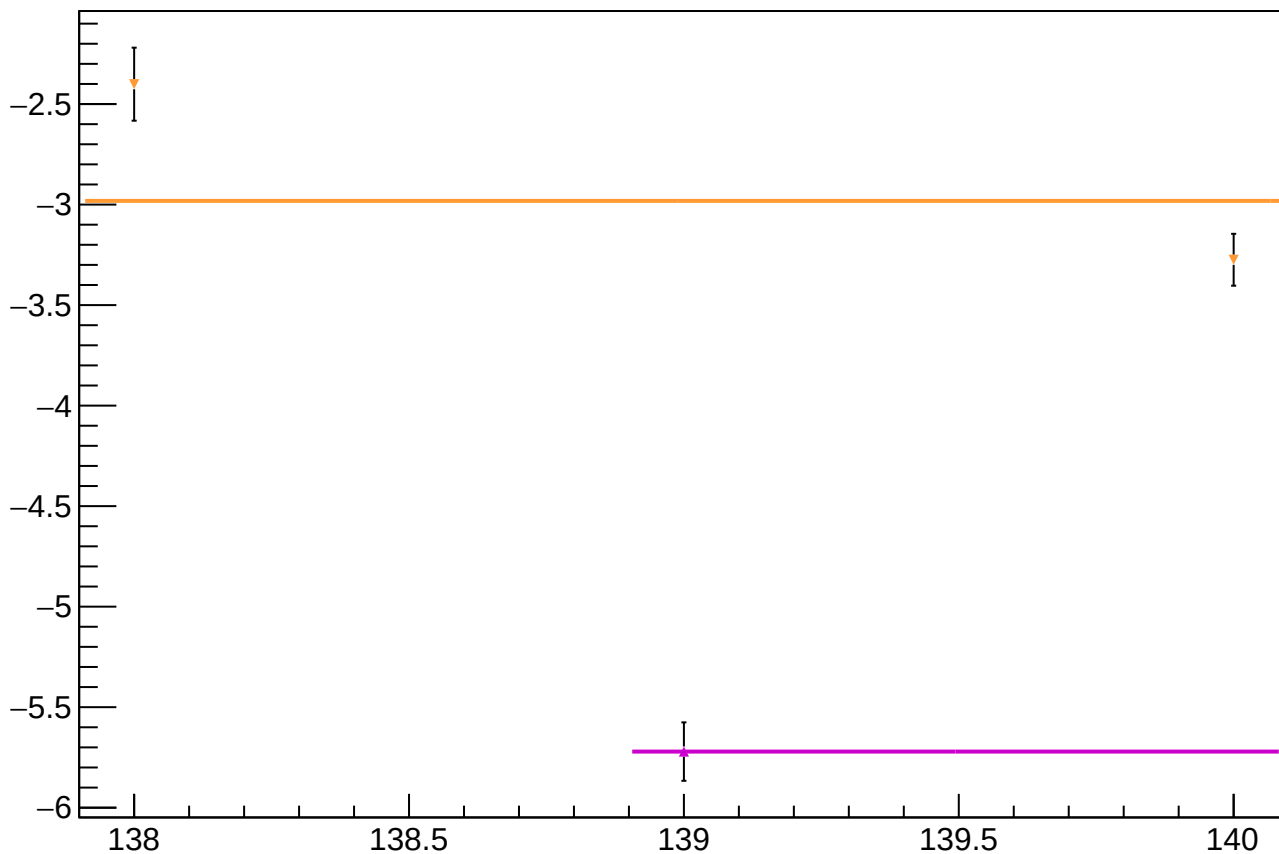
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.817+/-0.086  $\chi^2/\text{NDF}$ :154.8/1  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 19.491+/-0.249  $\chi^2/\text{NDF}$ :0.0/0

Left: 4.599+/-0.081  $\chi^2/\text{NDF}$ : 4153.4/2  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 19.491+/-0.249  $\chi^2/\text{NDF}$ :0.0/0  
 Out: 2.817+/-0.086  $\chi^2/\text{NDF}$ :154.8/1  
 All: 4.599+/-0.081  $\chi^2/\text{NDF}$ : 4153.4/2

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: -2.982+/-0.105  $\chi^2/\text{NDF}$ :15.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.721+/-0.145  $\chi^2/\text{NDF}$ :0.0/0

Left: -3.923+/-0.085  $\chi^2/\text{NDF}$ : 248.5/2

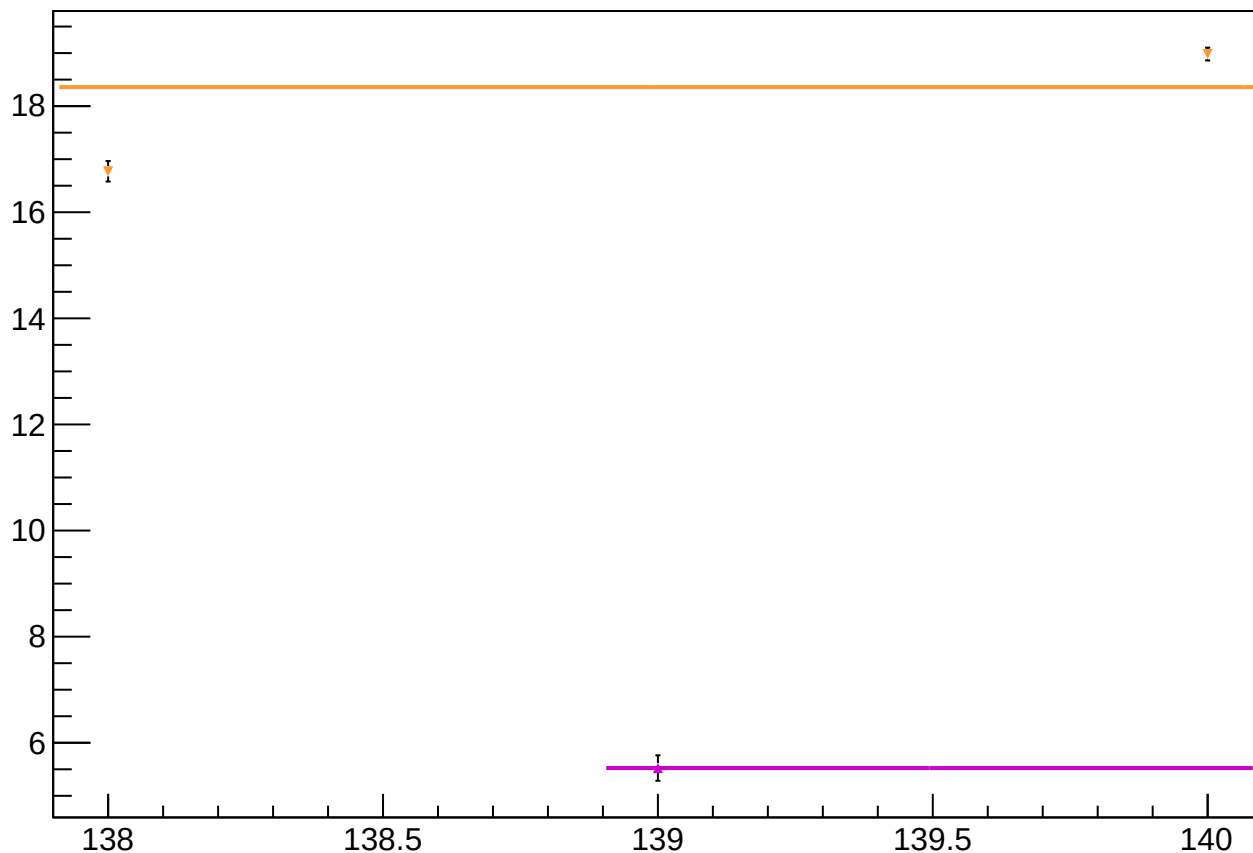
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.721+/-0.145  $\chi^2/\text{NDF}$ :0.0/0

Out: -2.982+/-0.105  $\chi^2/\text{NDF}$ :15.4/1

All: -3.923+/-0.085  $\chi^2/\text{NDF}$ : 248.5/2

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: 18.359+/-0.102  $\chi^2/\text{NDF}$ :94.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.524+/-0.240  $\chi^2/\text{NDF}$ :0.0/0

Left: 16.386+/-0.094  $\chi^2/\text{NDF}$ : 2505.2/2

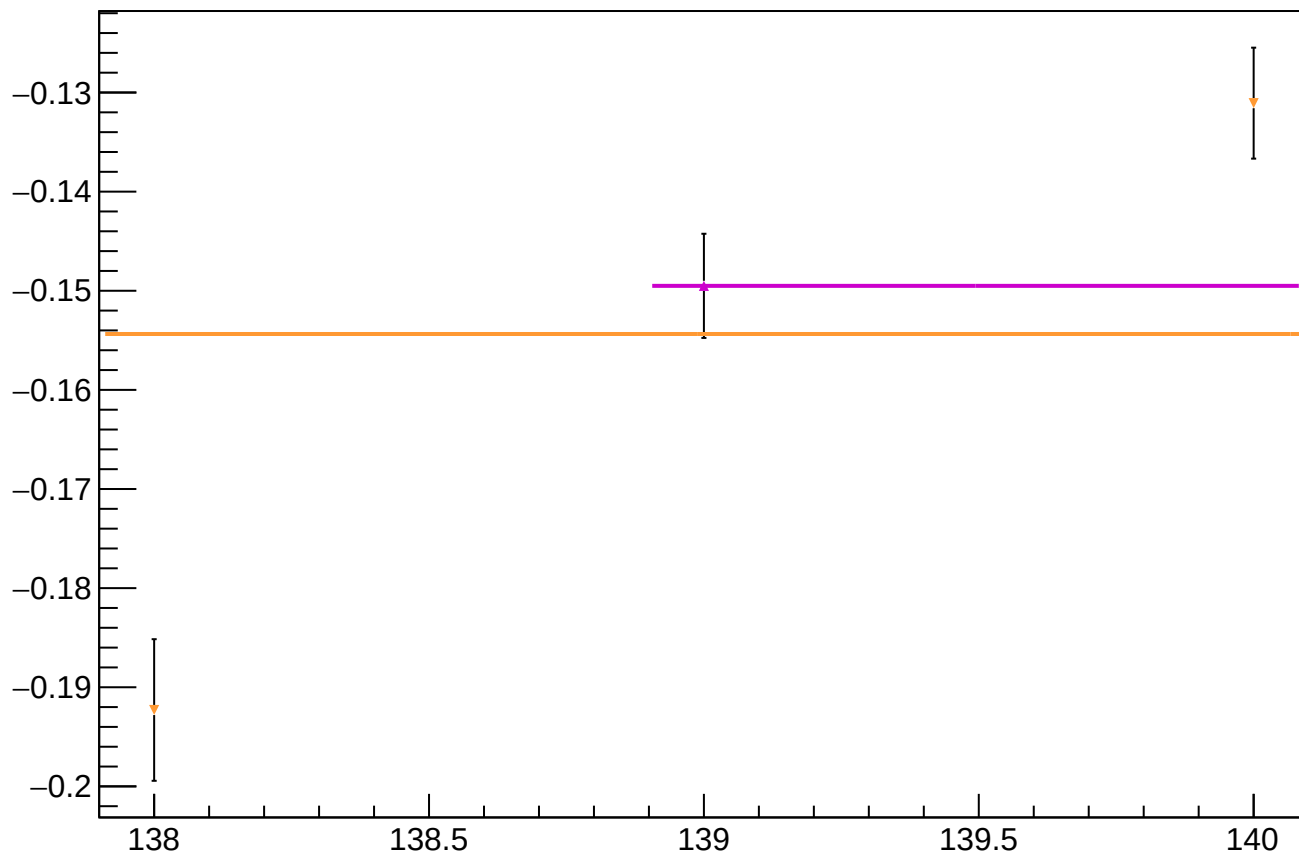
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5.524+/-0.240  $\chi^2/\text{NDF}$ :0.0/0

Out: 18.359+/-0.102  $\chi^2/\text{NDF}$ :94.0/1

All: 16.386+/-0.094  $\chi^2/\text{NDF}$ : 2505.2/2

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-0.154 \pm 0.004$   $\chi^2/\text{NDF}$ : 45.5/1

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-0.150 \pm 0.005$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.152 \pm 0.003$   $\chi^2/\text{NDF}$ : 46.0/2

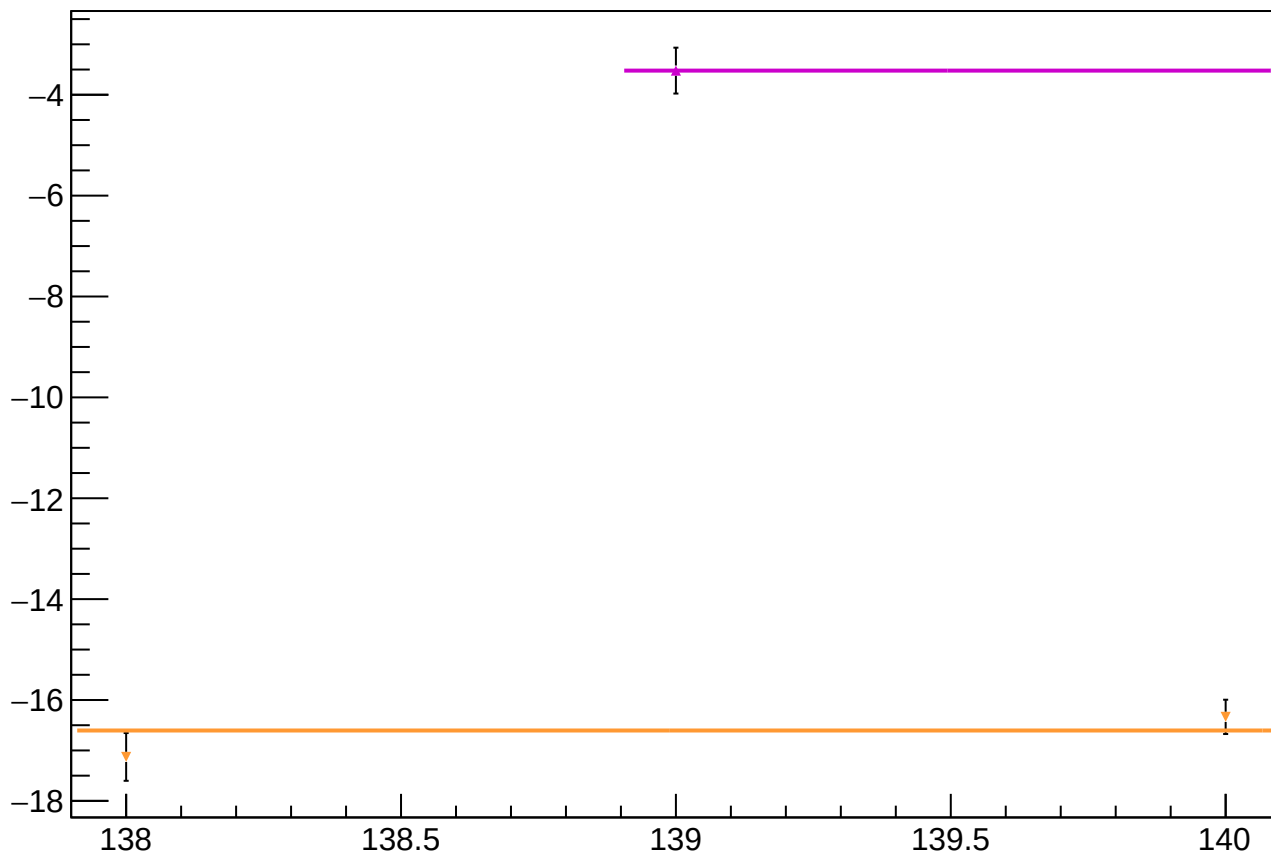
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-0.150 \pm 0.005$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $-0.154 \pm 0.004$   $\chi^2/\text{NDF}$ : 45.5/1

All:  $-0.152 \pm 0.003$   $\chi^2/\text{NDF}$ : 46.0/2

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: -16.605+/-0.276  $\chi^2/\text{NDF}$ : 1.9/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.521+/-0.455  $\chi^2/\text{NDF}$ : 0.0/0

Left: -13.079+/-0.236  $\chi^2/\text{NDF}$ : 606.4/2

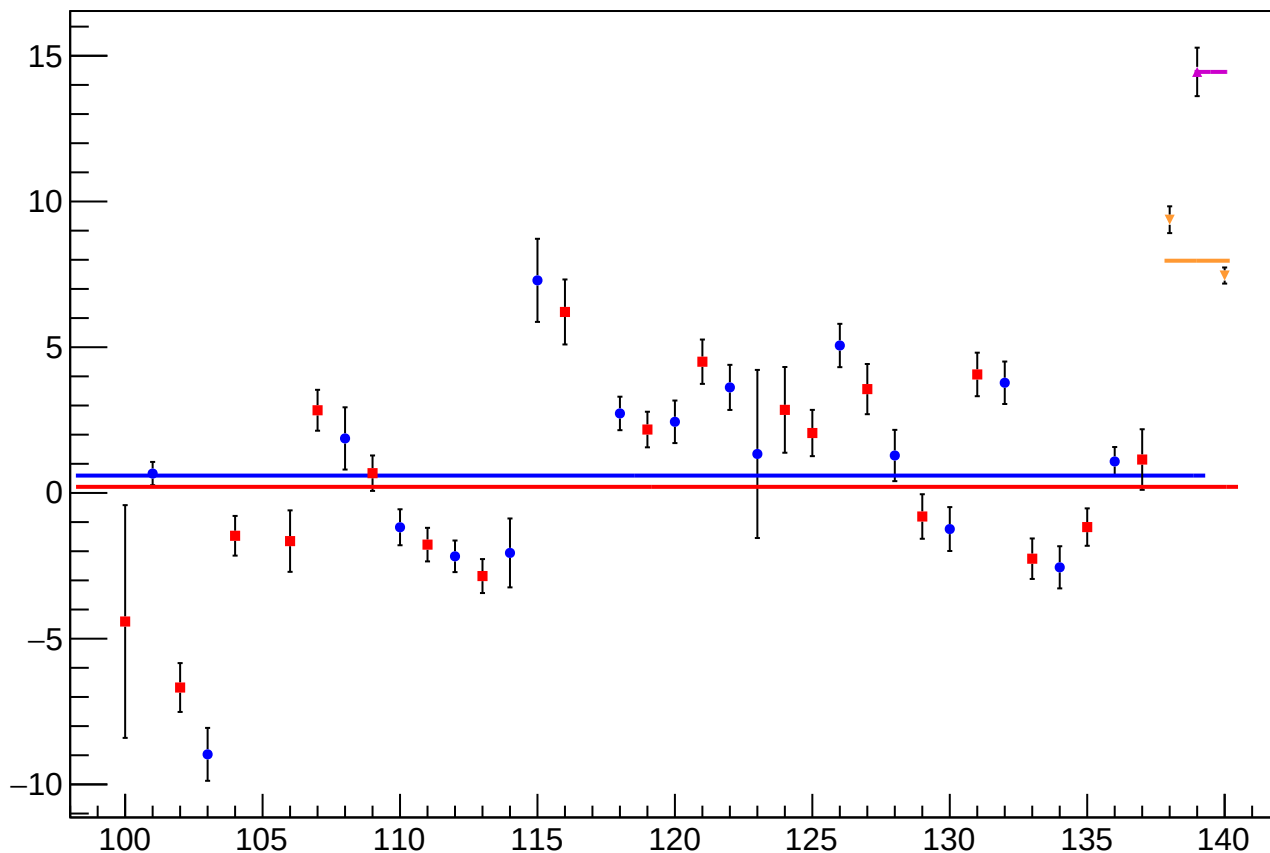
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.521+/-0.455  $\chi^2/\text{NDF}$ : 0.0/0

Out: -16.605+/-0.276  $\chi^2/\text{NDF}$ : 1.9/1

All: -13.079+/-0.236  $\chi^2/\text{NDF}$ : 606.4/2

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.596 $\pm$ 0.169  $\chi^2$ /NDF: 291.2/16

Left Out: 7.968 $\pm$ 0.237  $\chi^2$ /NDF:12.8/1

Right Out: 0.209 $\pm$ 0.175  $\chi^2$ /NDF: 273.5/18

Left In: 14.446 $\pm$ 0.832  $\chi^2$ /NDF:0.0/0

Left: 8.454 $\pm$ 0.228  $\chi^2$ /NDF: 68.9/2

Right: 0.409 $\pm$ 0.121  $\chi^2$ /NDF: 567.2/35

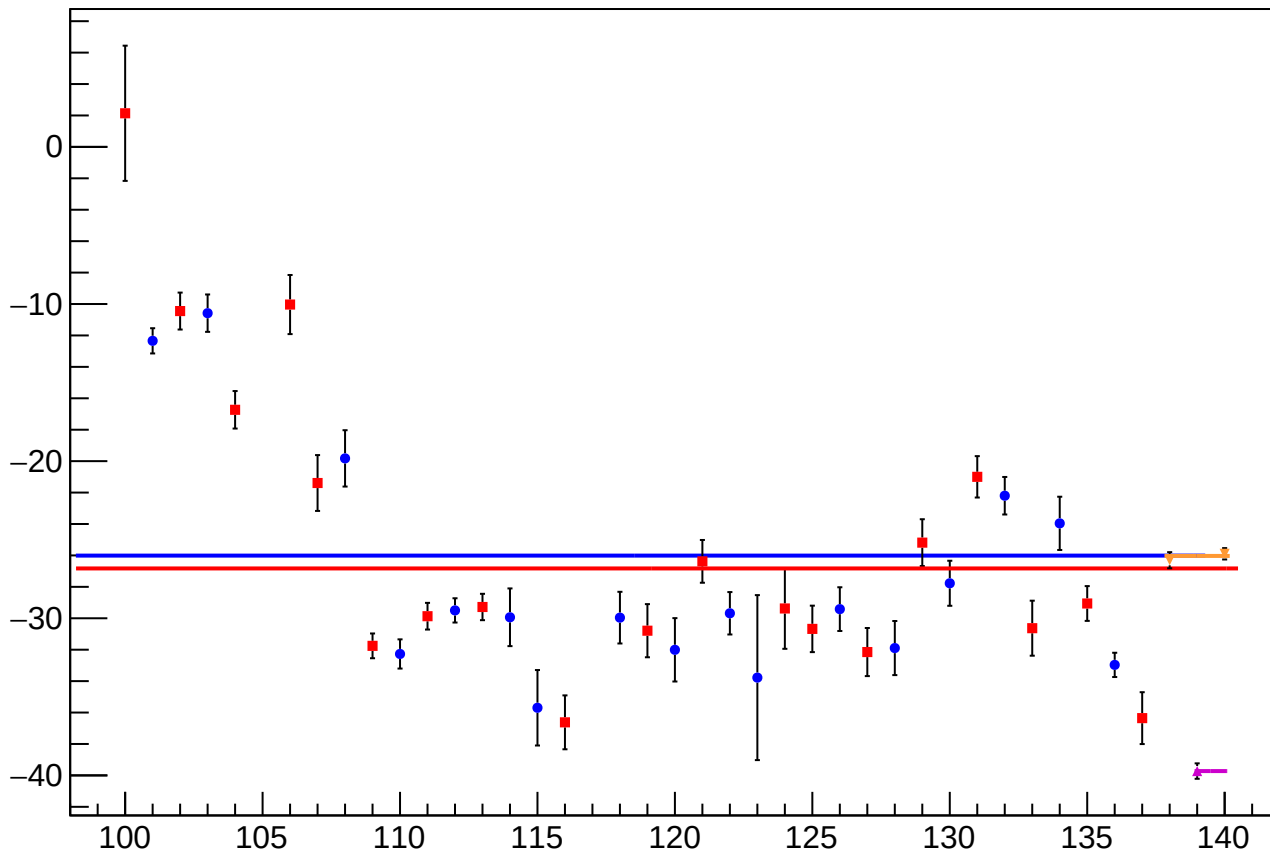
In: 1.145 $\pm$ 0.166  $\chi^2$ /NDF:557.6/17

Out: 2.944 $\pm$ 0.141  $\chi^2$ /NDF:981.8/20

All: 2.191 $\pm$ 0.107  $\chi^2$ /NDF: 1608.0/38



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:  $-26.033 \pm 0.296$   $\chi^2/\text{NDF}$ : 0.4/1

Right Out:  $-26.829 \pm 0.297$   $\chi^2/\text{NDF}$ : 581.6/18

Left In:  $-39.725 \pm 0.491$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-29.676 \pm 0.253$   $\chi^2/\text{NDF}$ : 570.4/2

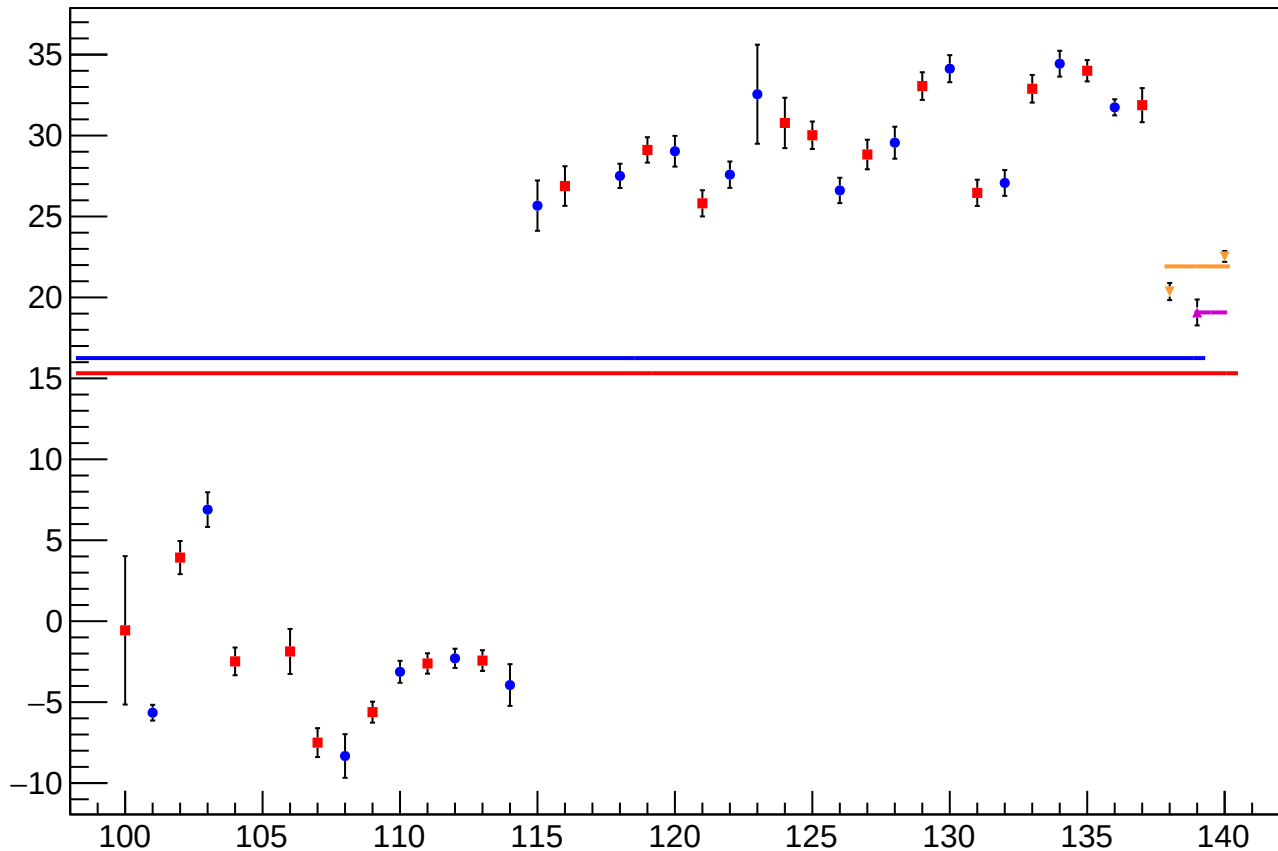
Right:  $-26.423 \pm 0.211$   $\chi^2/\text{NDF}$ : 1278.3/35

In:  $-29.728 \pm 0.256$   $\chi^2/\text{NDF}$ : 1260.8/17

Out:  $-26.429 \pm 0.210$   $\chi^2/\text{NDF}$ : 585.6/20

All:  $-27.755 \pm 0.162$   $\chi^2/\text{NDF}$ : 1945.9/38

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: 21.917 $\pm$ 0.283  $\chi^2$ /NDF:12.0/1

Right Out: 15.318 $\pm$ 0.197  $\chi^2$ /NDF: 7280.1/18

Left In: 19.073 $\pm$ 0.802  $\chi^2$ /NDF:0.0/0

Left: 21.603 $\pm$ 0.267  $\chi^2$ /NDF: 23.2/2

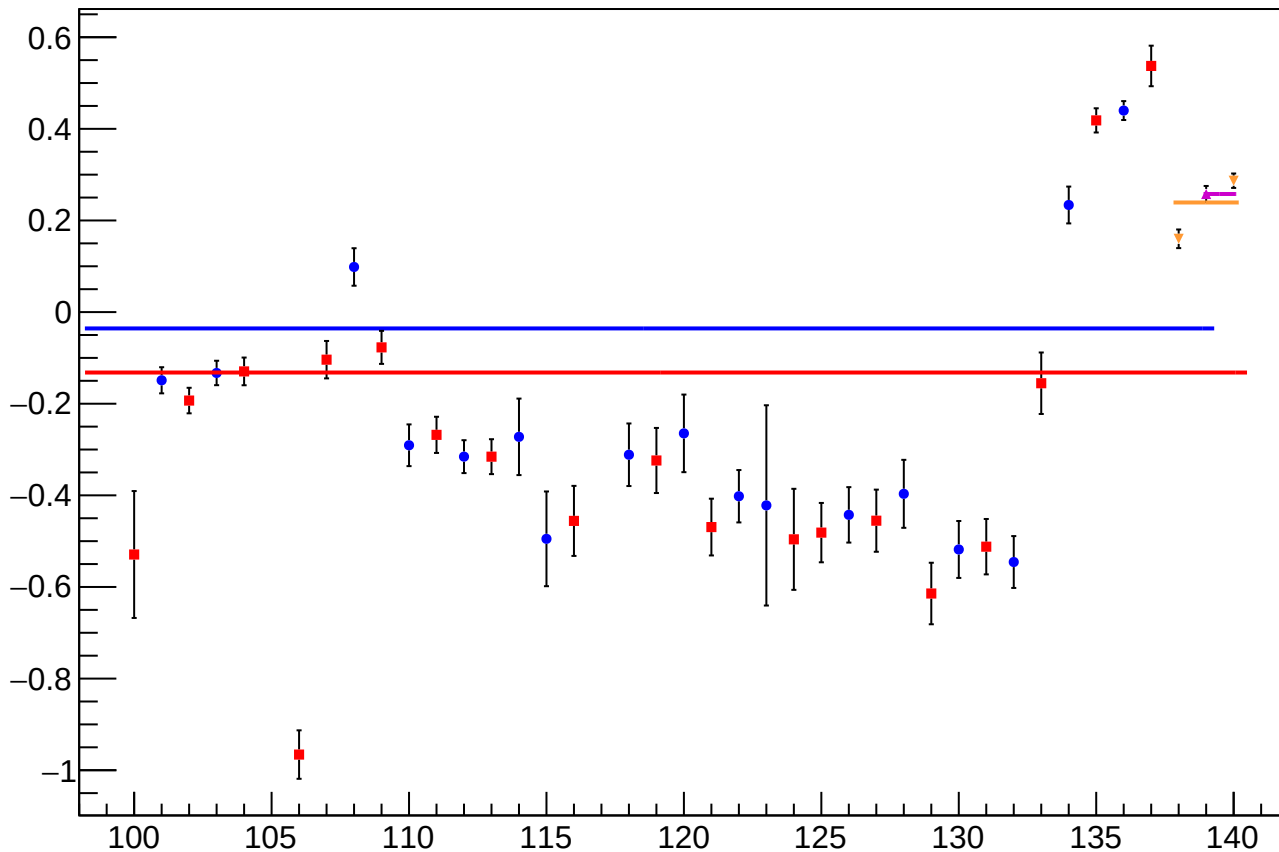
Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14903.0/35

In: 16.405 $\pm$ 0.186  $\chi^2$ /NDF:7623.0/17

Out: 17.476 $\pm$ 0.162  $\chi^2$ /NDF:7659.1/20

All: 17.015 $\pm$ 0.122  $\chi^2$ /NDF: 15301.0/38

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:  $0.239 \pm 0.012$   $\chi^2/\text{NDF}$ : 24.3/1

Right Out:  $-0.132 \pm 0.010$   $\chi^2/\text{NDF}$ : 1171.3/18

Left In:  $0.258 \pm 0.018$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.245 \pm 0.010$   $\chi^2/\text{NDF}$ : 25.0/2

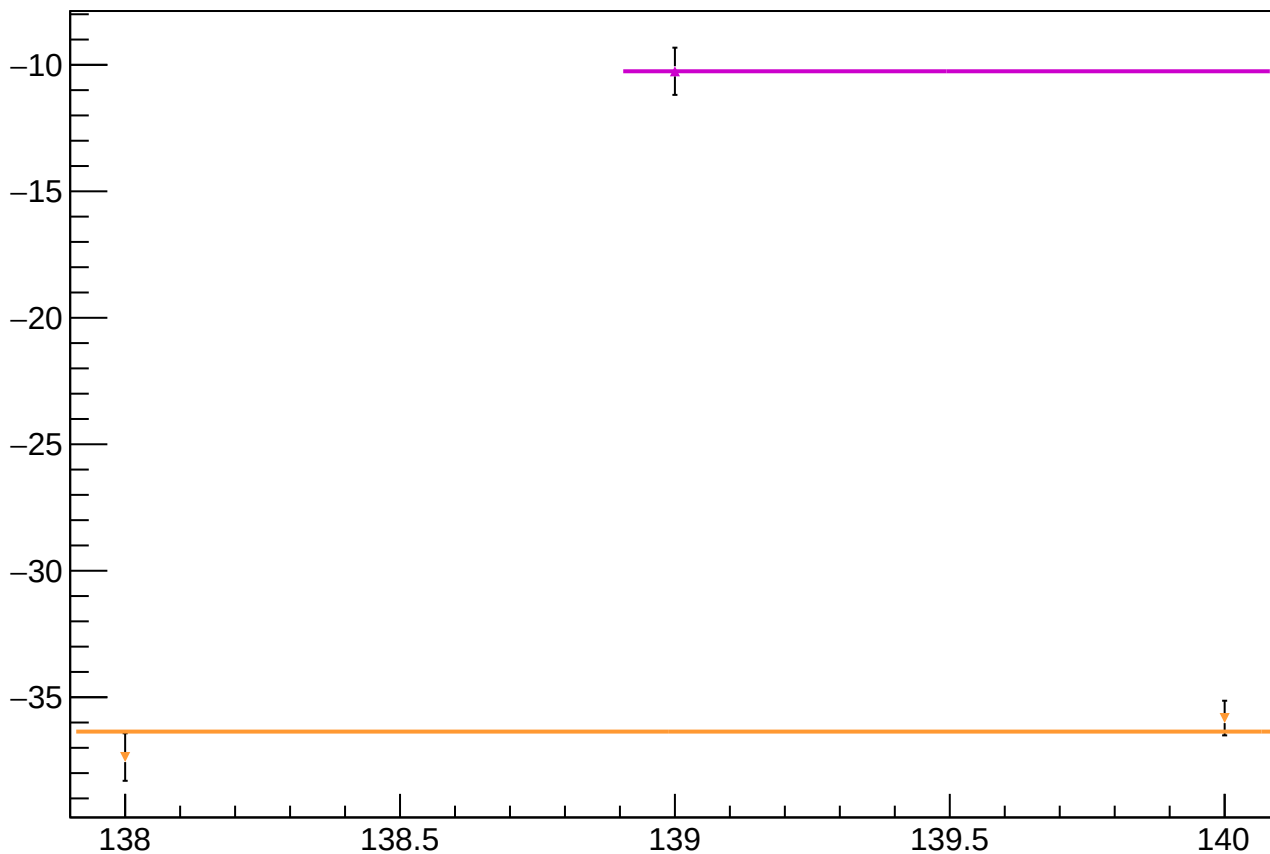
Right:  $-0.084 \pm 0.007$   $\chi^2/\text{NDF}$ : 2229.1/35

In:  $0.040 \pm 0.009$   $\chi^2/\text{NDF}$ : 1222.5/17

Out:  $0.020 \pm 0.008$   $\chi^2/\text{NDF}$ : 1720.8/20

All:  $0.029 \pm 0.006$   $\chi^2/\text{NDF}$ : 2946.1/38

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -36.358+/-0.553  $\chi^2/\text{NDF}$ : 1.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -10.254+/-0.933  $\chi^2/\text{NDF}$ : 0.0/0

Left: -29.566+/-0.476  $\chi^2/\text{NDF}$ : 580.7/2

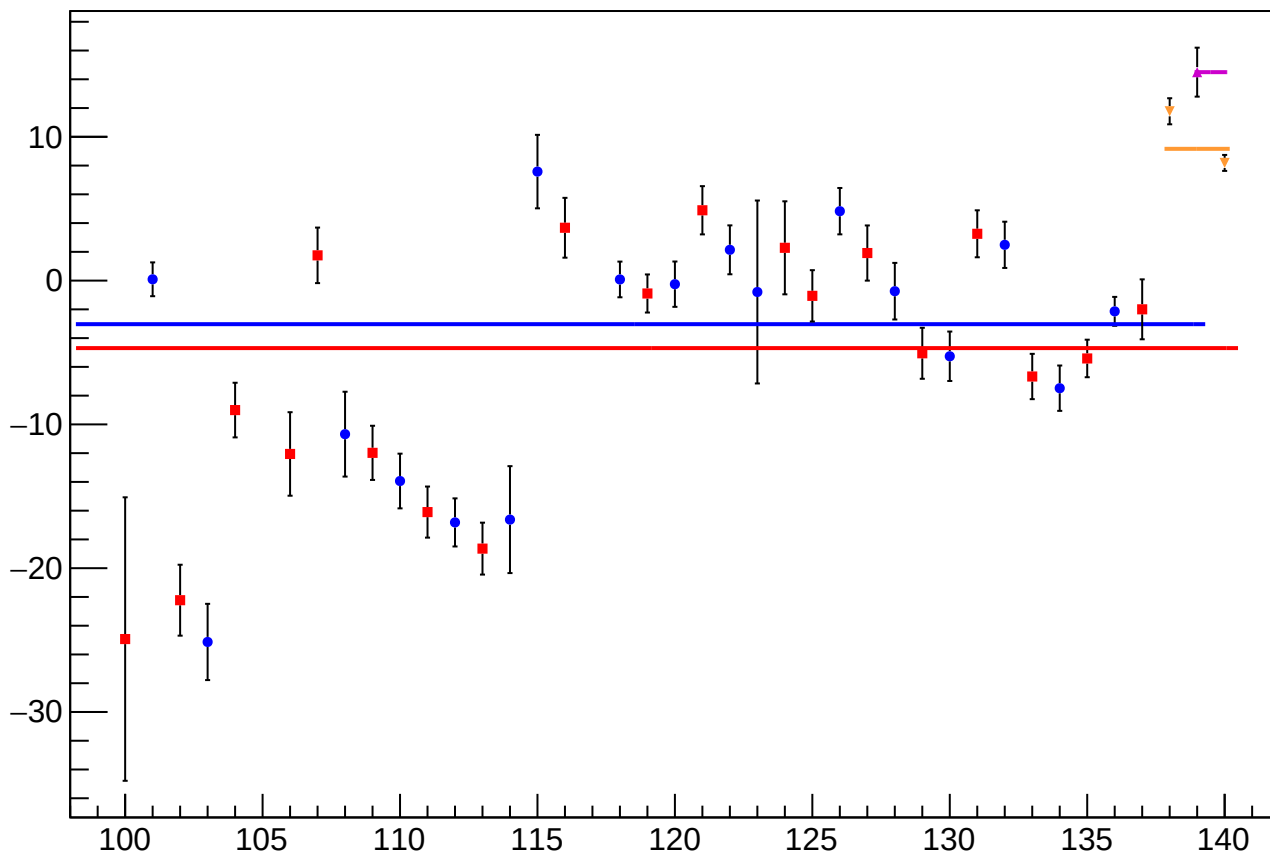
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -10.254+/-0.933  $\chi^2/\text{NDF}$ : 0.0/0

Out: -36.358+/-0.553  $\chi^2/\text{NDF}$ : 1.8/1

All: -29.566+/-0.476  $\chi^2/\text{NDF}$ : 580.7/2

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:  $9.164 \pm 0.473$   $\chi^2/\text{NDF}$ : 11.4/1

Right Out:  $-4.694 \pm 0.427$   $\chi^2/\text{NDF}$ : 298.3/18

Left In:  $14.497 \pm 1.703$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $9.547 \pm 0.456$   $\chi^2/\text{NDF}$ : 20.5/2

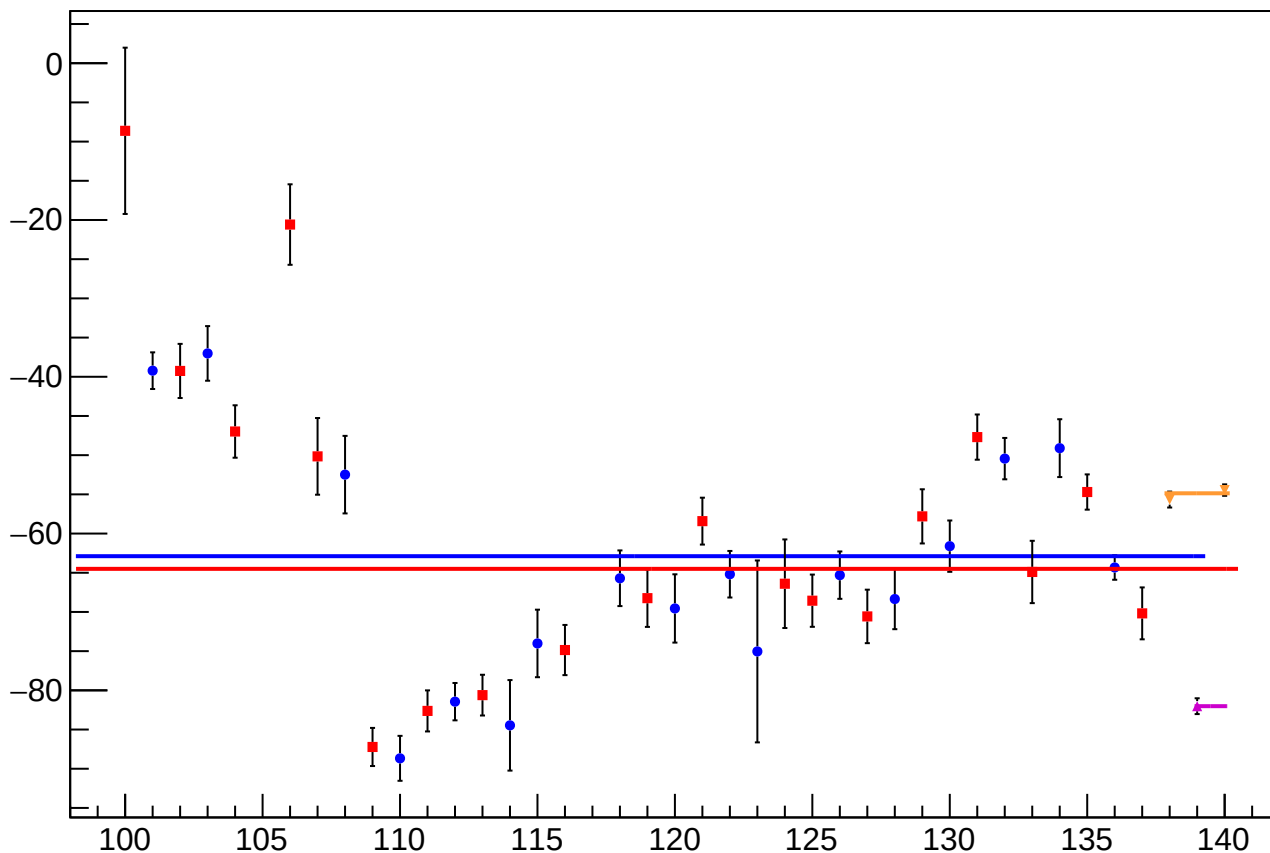
Right:  $-3.824 \pm 0.295$   $\chi^2/\text{NDF}$ : 587.0/35

In:  $-2.080 \pm 0.396$   $\chi^2/\text{NDF}$ : 381.0/17

Out:  $1.516 \pm 0.317$   $\chi^2/\text{NDF}$ : 782.5/20

All:  $0.113 \pm 0.248$   $\chi^2/\text{NDF}$ : 1213.7/38

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:  $-54.864 \pm 0.593$   $\chi^2/\text{NDF}$ : 0.9/1

Right Out:  $-64.502 \pm 0.751$   $\chi^2/\text{NDF}$ : 444.1/18

Left In:  $-82.020 \pm 1.008$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-61.838 \pm 0.511$   $\chi^2/\text{NDF}$ : 539.8/2

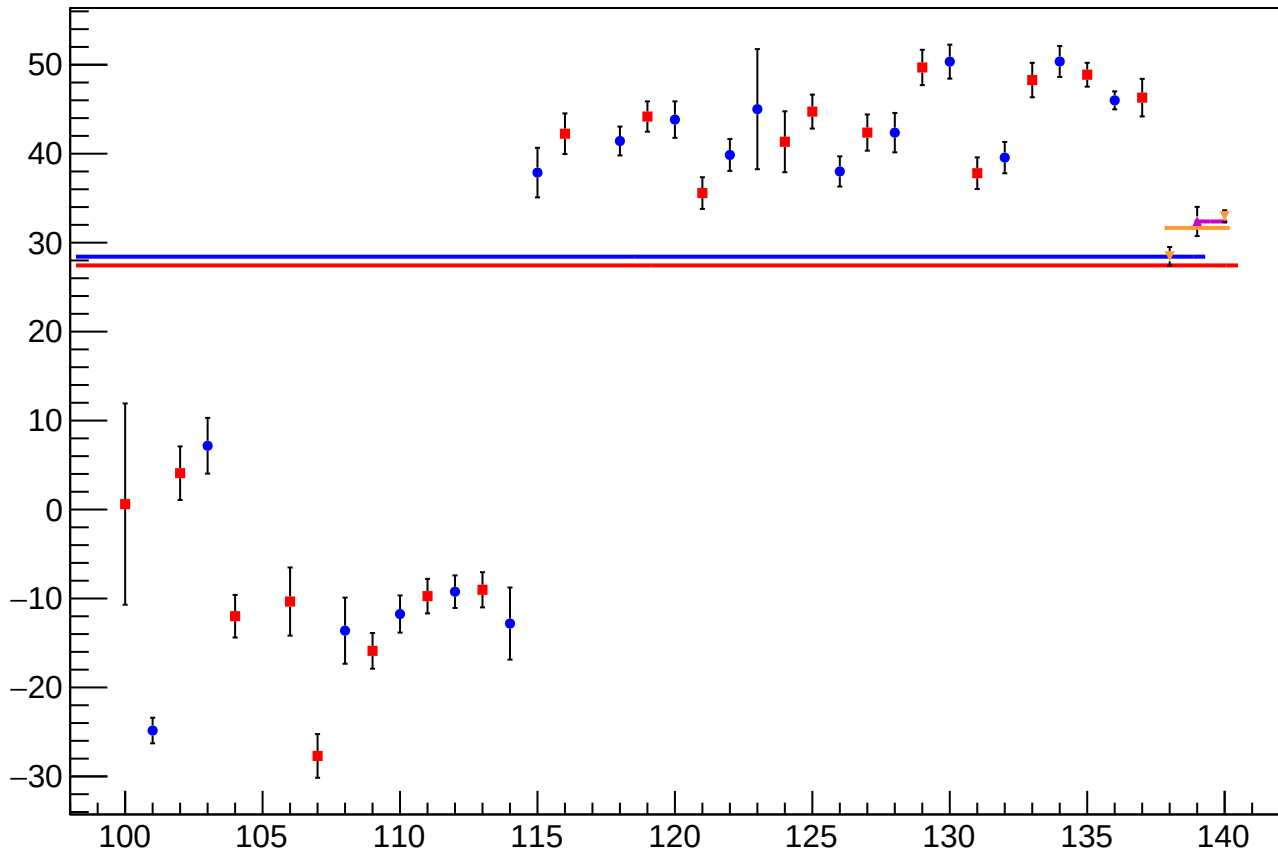
Right:  $-63.680 \pm 0.526$   $\chi^2/\text{NDF}$ : 815.2/35

In:  $-69.558 \pm 0.596$   $\chi^2/\text{NDF}$ : 603.2/17

Out:  $-58.562 \pm 0.465$   $\chi^2/\text{NDF}$ : 546.5/20

All:  $-62.731 \pm 0.367$   $\chi^2/\text{NDF}$ : 1361.3/38

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: 31.657 $\pm$ 0.565  $\chi^2$ /NDF:13.1/1

Right Out: 27.441 $\pm$ 0.479  $\chi^2$ /NDF: 3033.0/18

Left In: 32.380 $\pm$ 1.641  $\chi^2$ /NDF:0.0/0

Left: 31.734 $\pm$ 0.535  $\chi^2$ /NDF: 13.3/2

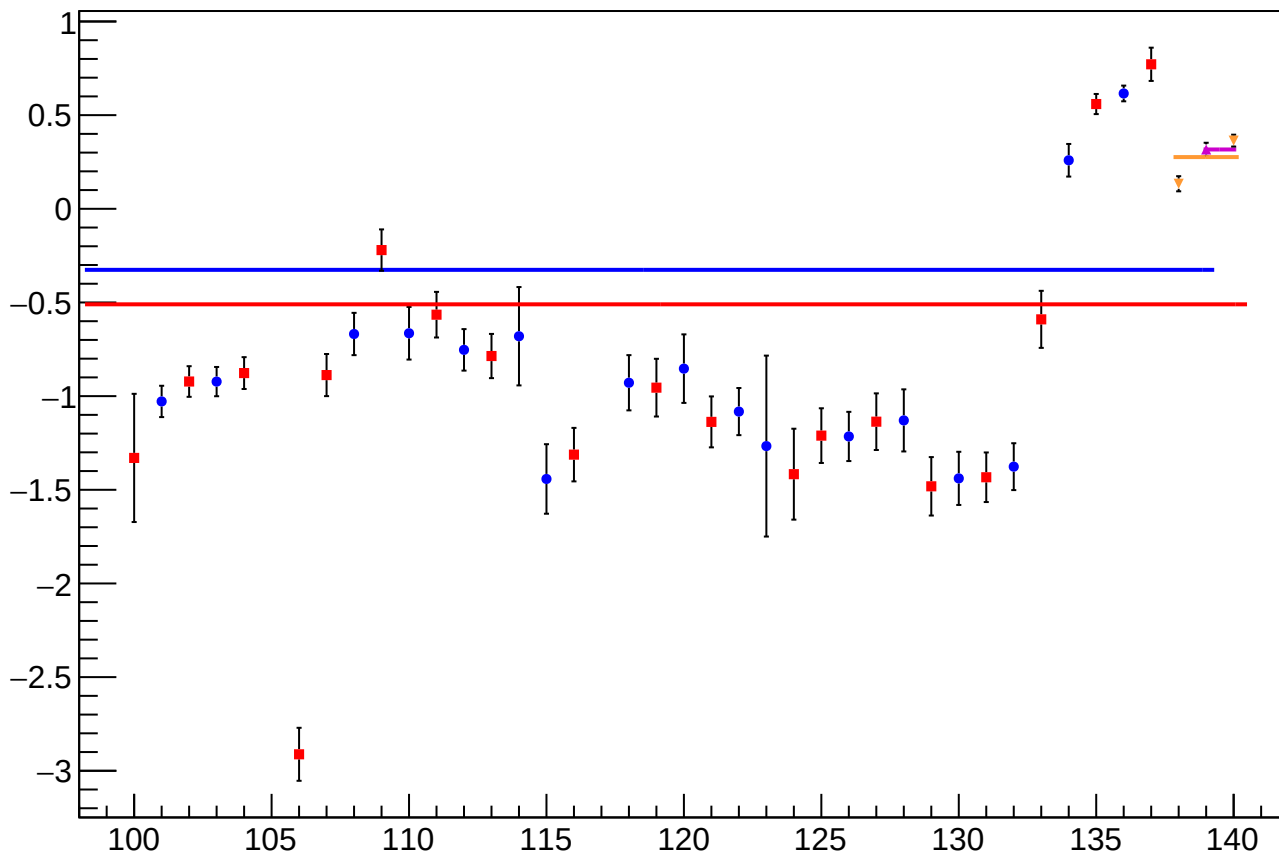
Right: 27.956 $\pm$ 0.331  $\chi^2$ /NDF: 6365.5/35

In: 28.710 $\pm$ 0.440  $\chi^2$ /NDF:3335.7/17

Out: 29.201 $\pm$ 0.365  $\chi^2$ /NDF:3078.5/20

All: 29.001 $\pm$ 0.281  $\chi^2$ /NDF: 6414.9/38

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:  $0.276 \pm 0.025$   $\chi^2/\text{NDF}$ : 20.1/1

Right Out:  $-0.510 \pm 0.026$   $\chi^2/\text{NDF}$ : 1169.4/18

Left In:  $0.317 \pm 0.036$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.289 \pm 0.021$   $\chi^2/\text{NDF}$ : 20.9/2

Right:  $-0.415 \pm 0.018$   $\chi^2/\text{NDF}$ : 2208.8/35

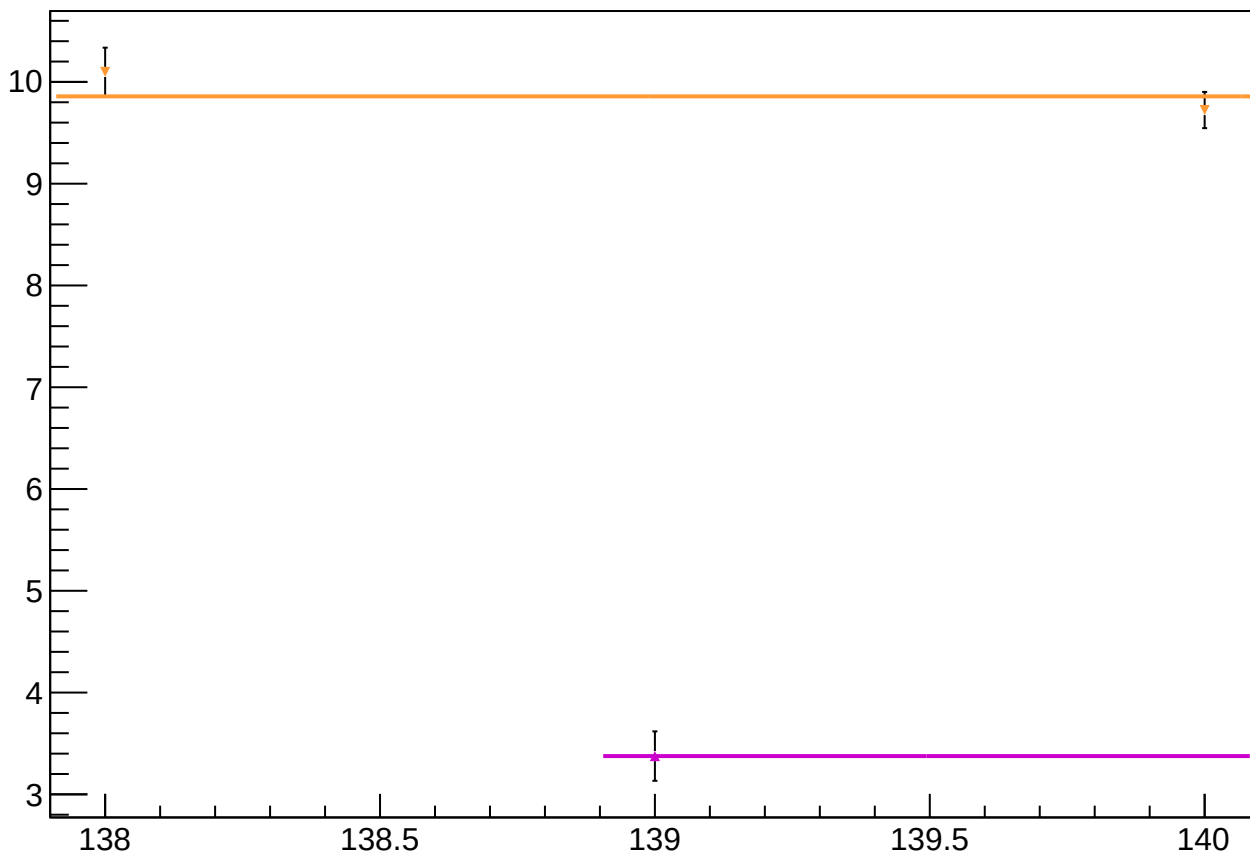
In:  $-0.117 \pm 0.020$   $\chi^2/\text{NDF}$ : 1229.3/17

Out:  $-0.106 \pm 0.018$   $\chi^2/\text{NDF}$ : 1670.5/20

All:  $-0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 2900.0/38



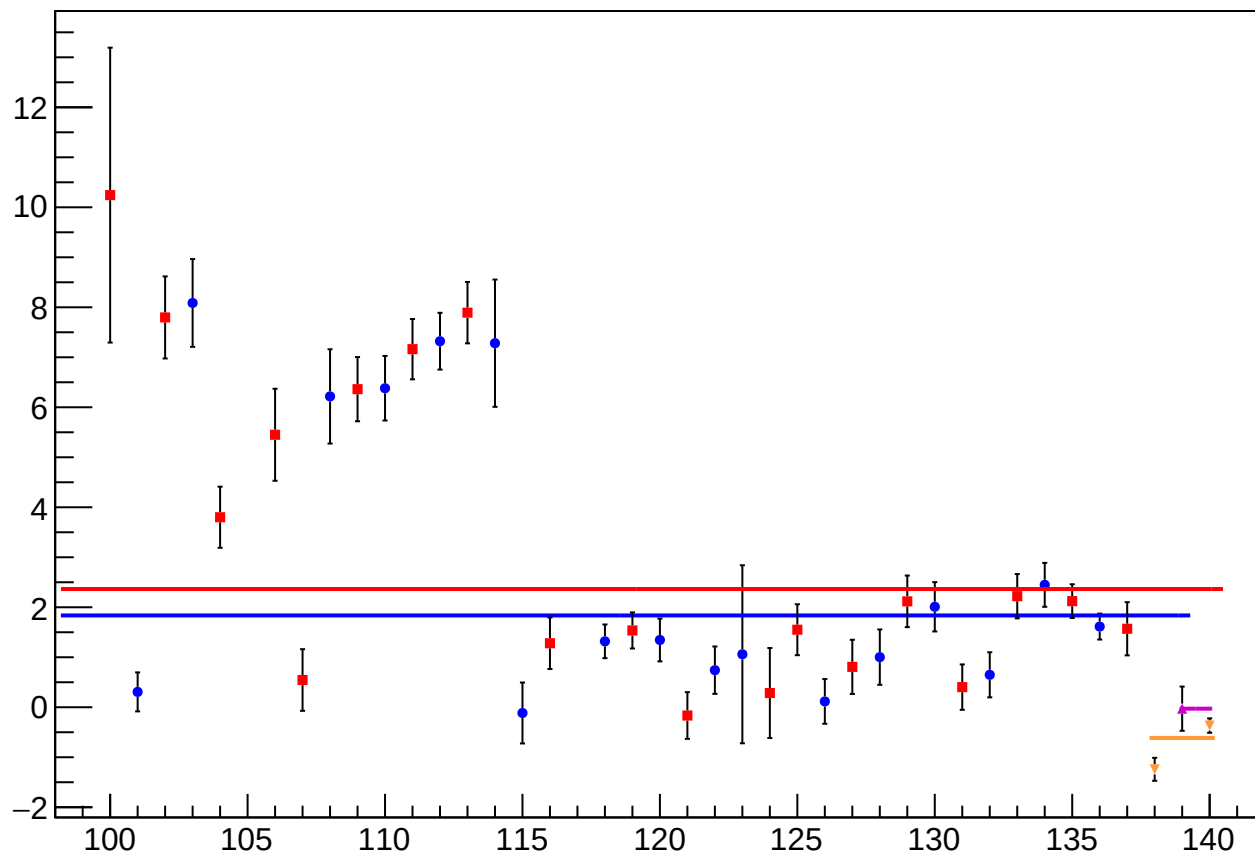
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 9.858 $\pm$ 0.143  $\chi^2/\text{NDF}$ : 1.6/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 3.376 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 0.0/0

Left: 8.195 $\pm$ 0.123  $\chi^2/\text{NDF}$ : 531.3/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 3.376 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 9.858 $\pm$ 0.143  $\chi^2/\text{NDF}$ : 1.6/1  
 All: 8.195 $\pm$ 0.123  $\chi^2/\text{NDF}$ : 531.3/2

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.836 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.9/16

Left Out:  $-0.614 \pm 0.122$   $\chi^2/\text{NDF}$ : 10.4/1

Right Out:  $2.365 \pm 0.123$   $\chi^2/\text{NDF}$ : 336.4/18

Left In:  $-0.028 \pm 0.442$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-0.572 \pm 0.118$   $\chi^2/\text{NDF}$ : 12.0/2

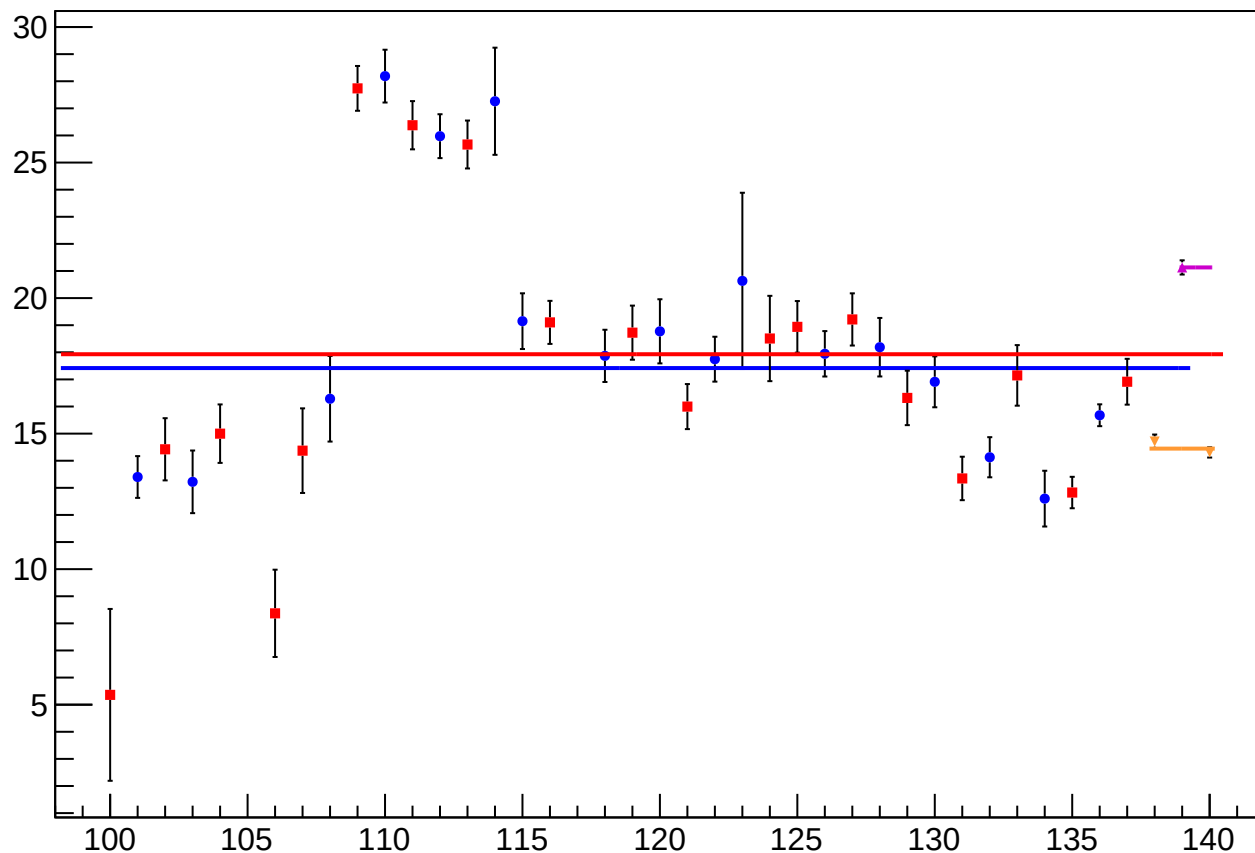
Right:  $2.086 \pm 0.084$   $\chi^2/\text{NDF}$ : 641.1/35

In:  $1.716 \pm 0.112$   $\chi^2/\text{NDF}$ : 311.5/17

Out:  $0.869 \pm 0.087$   $\chi^2/\text{NDF}$ : 643.0/20

All:  $1.185 \pm 0.069$   $\chi^2/\text{NDF}$ : 990.2/38

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: 14.447 $\pm$ 0.153  $\chi^2$ /NDF: 1.6/1

Right Out: 17.929 $\pm$ 0.219  $\chi^2$ /NDF: 506.3/18

Left In: 21.131 $\pm$ 0.263  $\chi^2$ /NDF: 0.0/0

Left: 16.138 $\pm$ 0.132  $\chi^2$ /NDF: 485.8/2

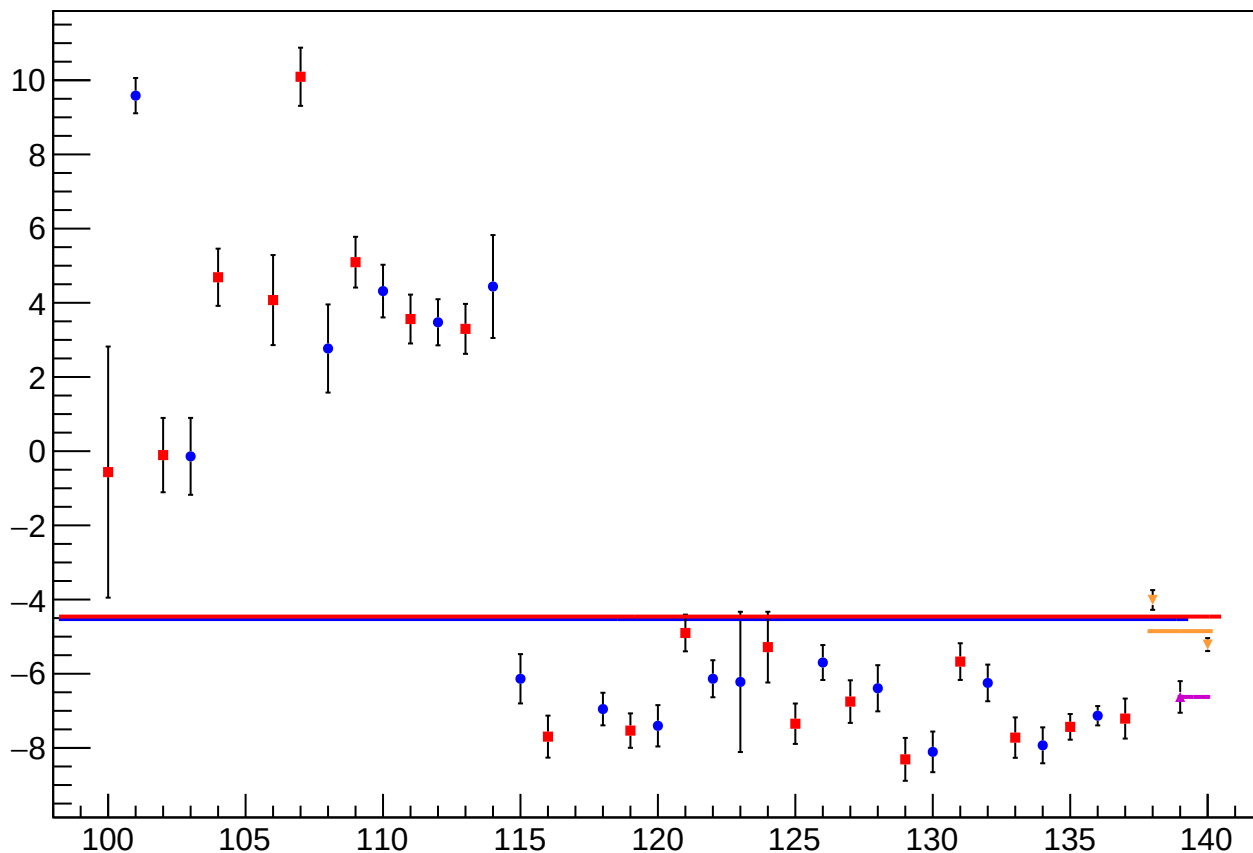
Right: 17.665 $\pm$ 0.152  $\chi^2$ /NDF: 876.0/35

In: 18.882 $\pm$ 0.165  $\chi^2$ /NDF: 488.0/17

Out: 15.588 $\pm$ 0.125  $\chi^2$ /NDF: 678.0/20

All: 16.794 $\pm$ 0.100  $\chi^2$ /NDF: 1419.2/38

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:  $-4.852 \pm 0.146$   $\chi^2/\text{NDF}$ : 14.3/1

Right Out:  $-4.459 \pm 0.137$   $\chi^2/\text{NDF}$ : 1338.9/18

Left In:  $-6.625 \pm 0.426$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-5.038 \pm 0.138$   $\chi^2/\text{NDF}$ : 29.8/2

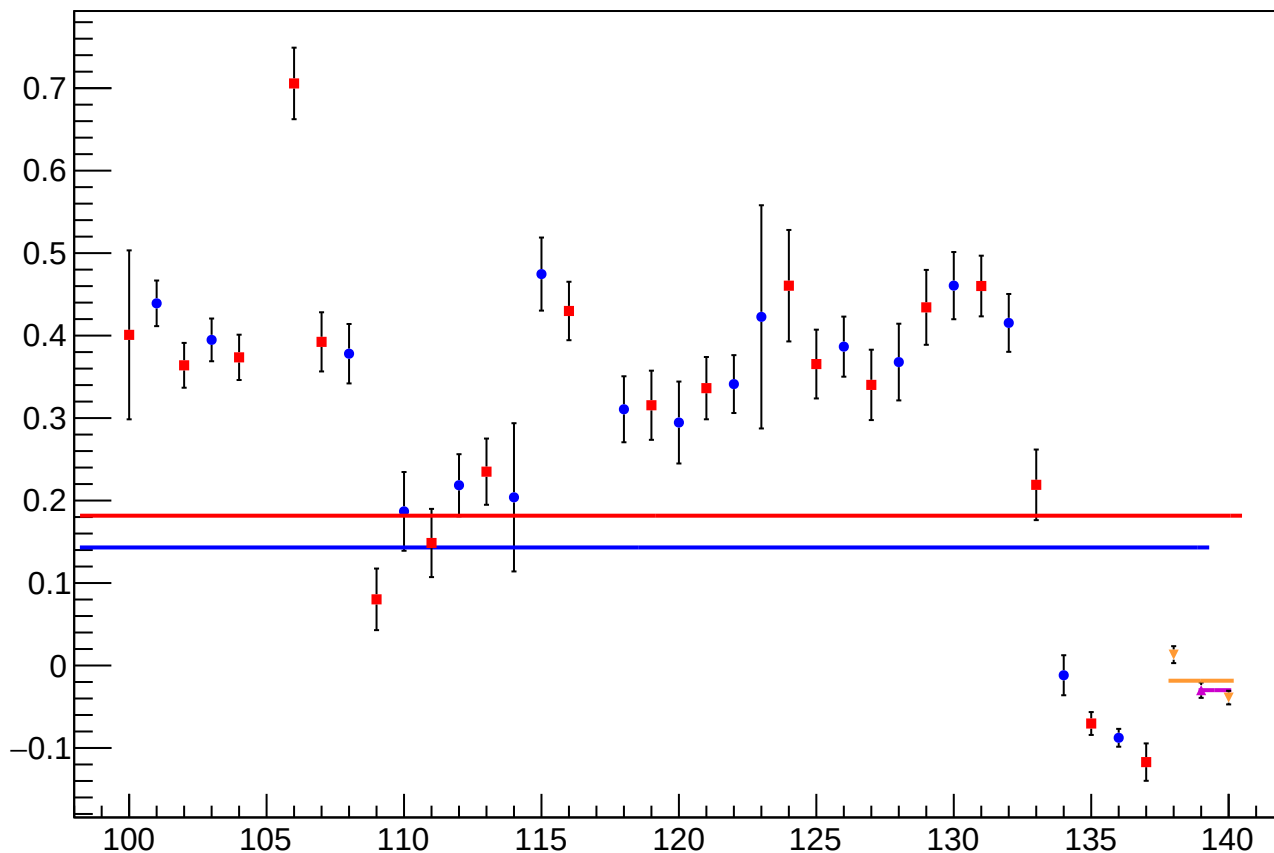
Right:  $-4.494 \pm 0.094$   $\chi^2/\text{NDF}$ : 2929.2/35

In:  $-4.704 \pm 0.124$   $\chi^2/\text{NDF}$ : 1612.4/17

Out:  $-4.643 \pm 0.100$   $\chi^2/\text{NDF}$ : 1357.1/20

All:  $-4.667 \pm 0.078$   $\chi^2/\text{NDF}$ : 2969.6/38

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.143 \pm 0.007$   $\chi^2/\text{NDF}: 1060.4/16$

Left Out:  $-0.018 \pm 0.006$   $\chi^2/\text{NDF}: 15.6/1$

Right Out:  $0.182 \pm 0.007$   $\chi^2/\text{NDF}: 1007.8/18$

Left In:  $-0.030 \pm 0.009$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-0.022 \pm 0.005$   $\chi^2/\text{NDF}: 16.6/2$

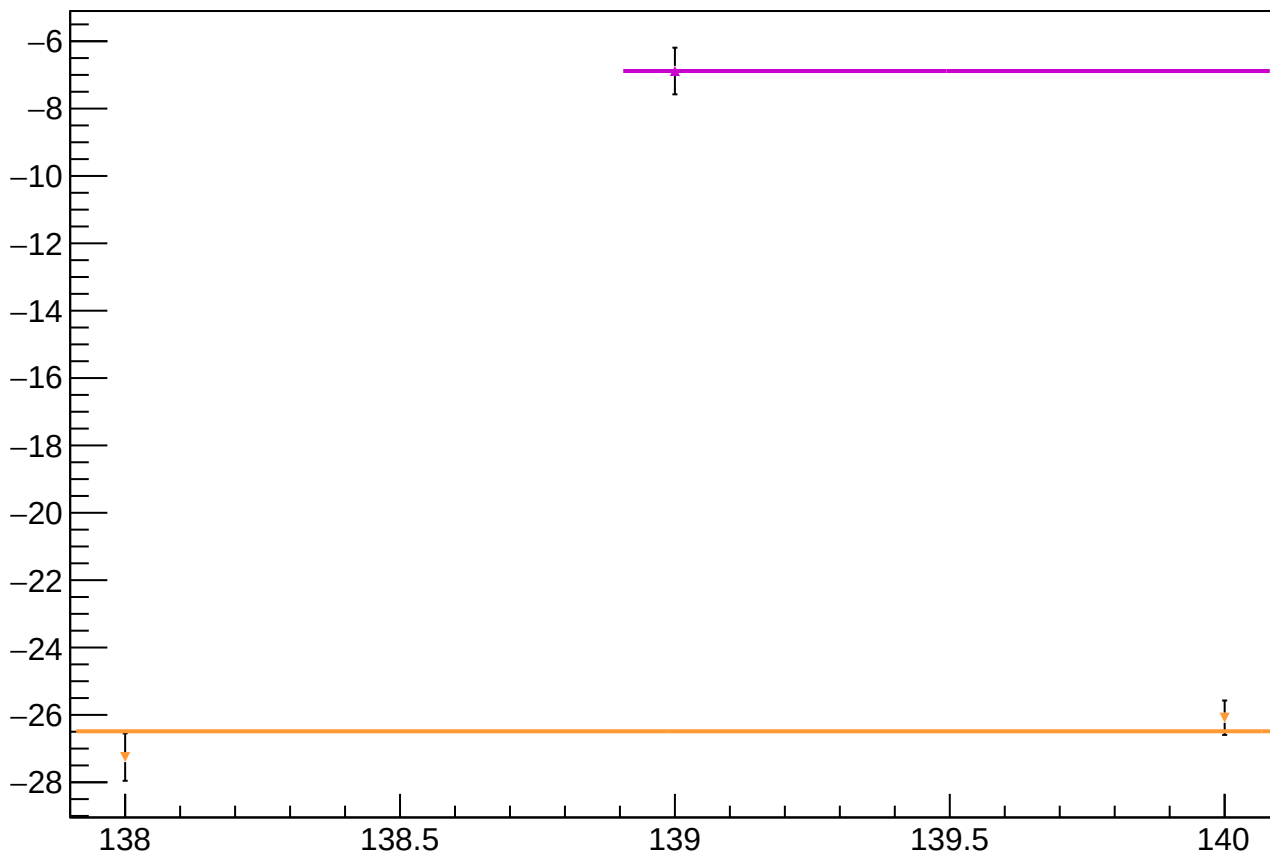
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}: 2082.4/35$

In:  $0.080 \pm 0.006$   $\chi^2/\text{NDF}: 1279.3/17$

Out:  $0.068 \pm 0.005$   $\chi^2/\text{NDF}: 1440.4/20$

All:  $0.073 \pm 0.004$   $\chi^2/\text{NDF}: 2722.5/38$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -26.486+/-0.413  $\chi^2$ /NDF:1.8/1

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -6.884+/-0.693  $\chi^2$ /NDF:0.0/0

Left: -21.337+/-0.355  $\chi^2$ /NDF: 592.2/2

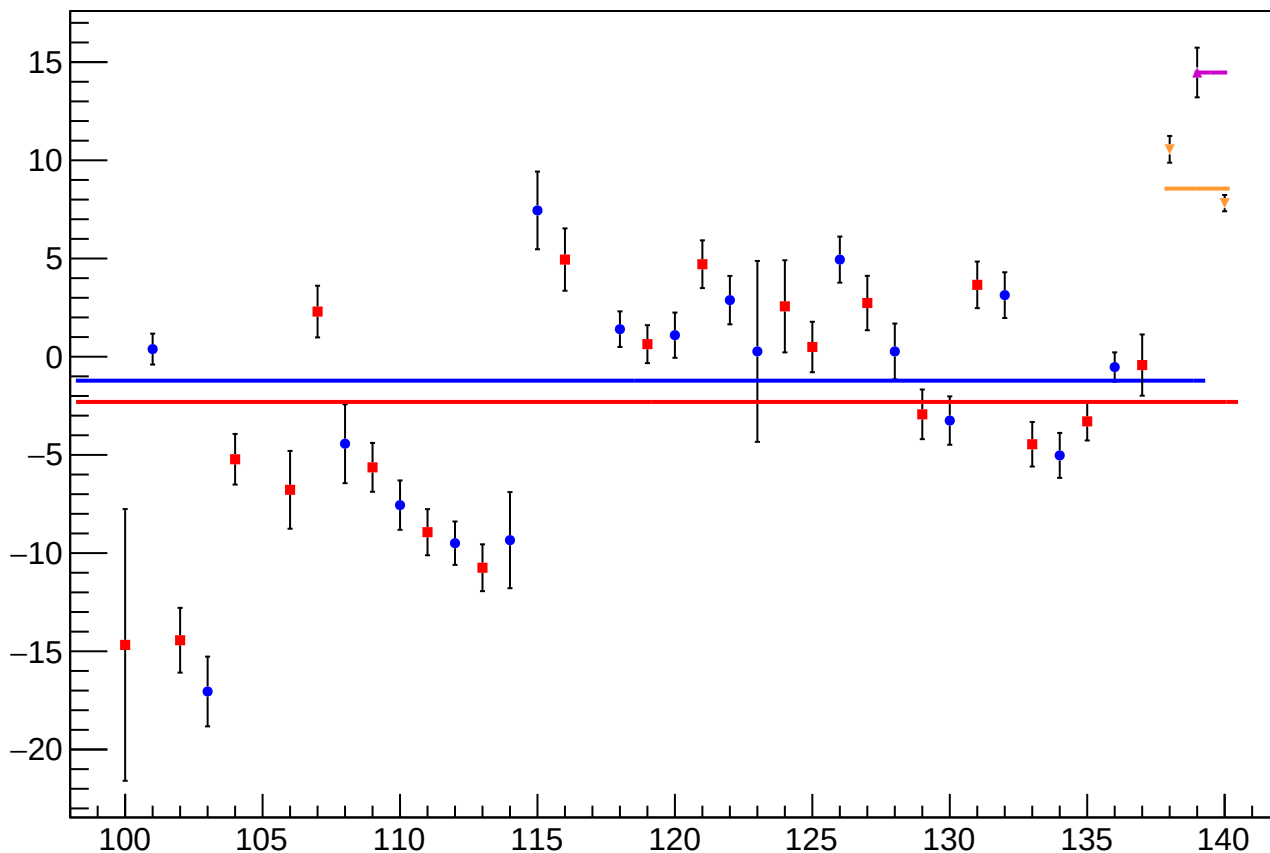
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -6.884+/-0.693  $\chi^2$ /NDF:0.0/0

Out: -26.486+/-0.413  $\chi^2$ /NDF:1.8/1

All: -21.337+/-0.355  $\chi^2$ /NDF: 592.2/2

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:  $8.559 \pm 0.354$   $\chi^2/\text{NDF}$ : 11.8/1

Right Out:  $-2.302 \pm 0.302$   $\chi^2/\text{NDF}$ : 286.2/18

Left In:  $14.471 \pm 1.265$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $8.988 \pm 0.341$   $\chi^2/\text{NDF}$ : 32.1/2

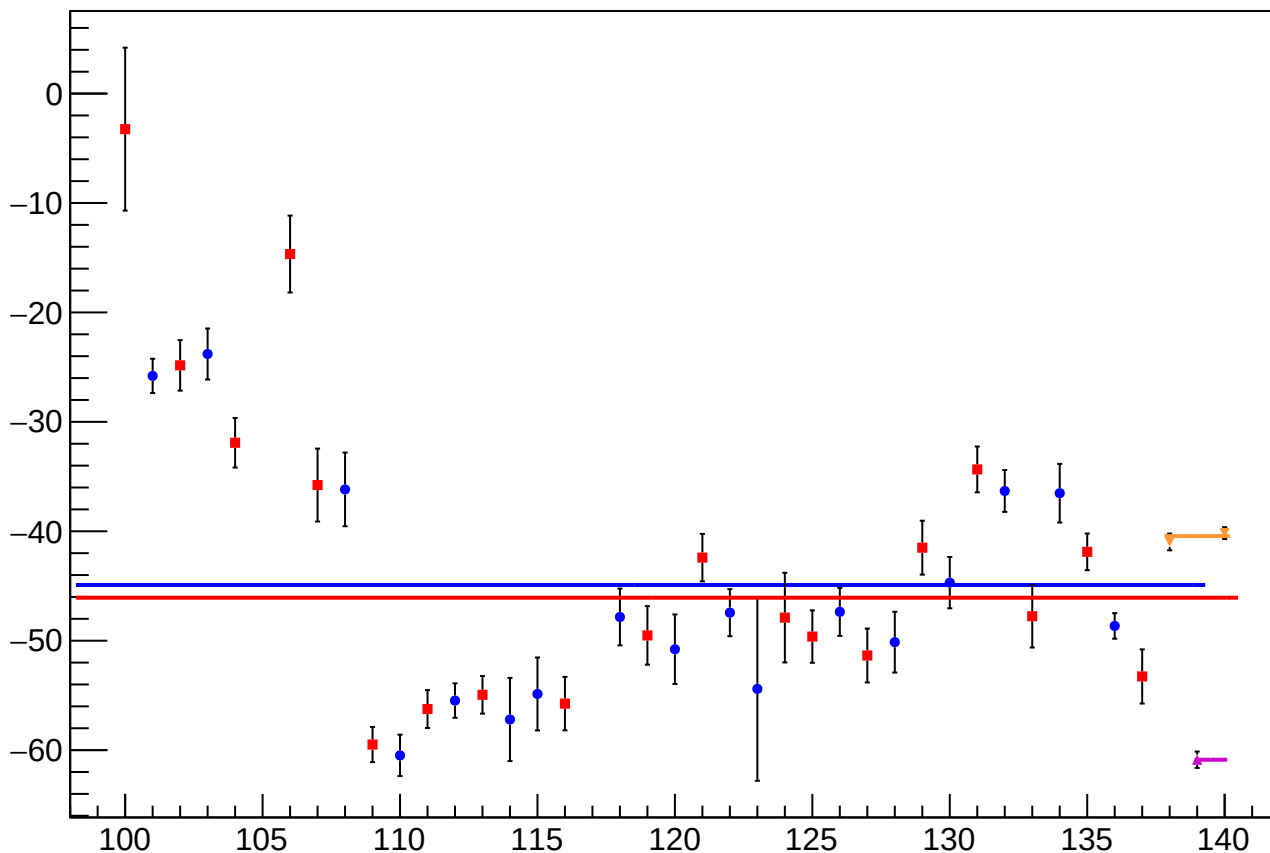
Right:  $-1.738 \pm 0.209$   $\chi^2/\text{NDF}$ : 571.5/35

In:  $-0.436 \pm 0.283$   $\chi^2/\text{NDF}$ : 424.8/17

Out:  $2.283 \pm 0.230$   $\chi^2/\text{NDF}$ : 842.5/20

All:  $1.200 \pm 0.178$   $\chi^2/\text{NDF}$ : 1323.0/38

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:  $-40.439 \pm 0.443$   $\chi^2/\text{NDF}$ : 0.7/1

Right Out:  $-46.071 \pm 0.528$   $\chi^2/\text{NDF}$ : 454.0/18

Left In:  $-60.878 \pm 0.749$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-45.739 \pm 0.381$   $\chi^2/\text{NDF}$ : 553.0/2

Right:  $-45.483 \pm 0.371$   $\chi^2/\text{NDF}$ : 877.6/35

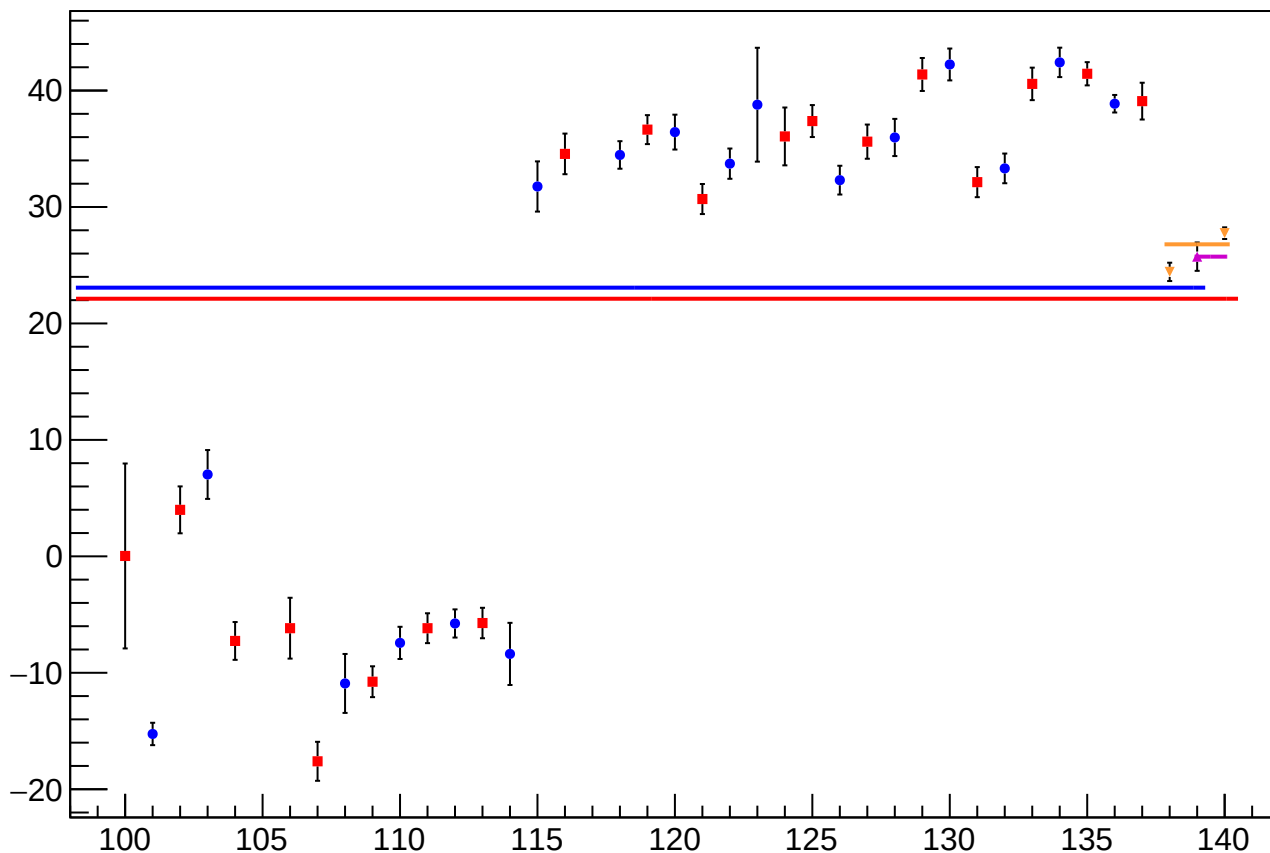
In:  $-50.140 \pm 0.428$   $\chi^2/\text{NDF}$ : 727.2/17

Out:  $-42.764 \pm 0.339$   $\chi^2/\text{NDF}$ : 521.5/20

All:  $-45.608 \pm 0.266$   $\chi^2/\text{NDF}$ : 1430.8/38



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.073+/-0.326  $\chi^2/\text{NDF}$ : 4346.0/16

Left Out: 26.795+/-0.423  $\chi^2/\text{NDF}$ :12.7/1

Right Out: 22.122+/-0.340  $\chi^2/\text{NDF}$ : 4034.4/18

Left In: 25.736+/-1.219  $\chi^2/\text{NDF}$ :0.0/0

Left: 26.681+/-0.399  $\chi^2/\text{NDF}$ : 13.4/2

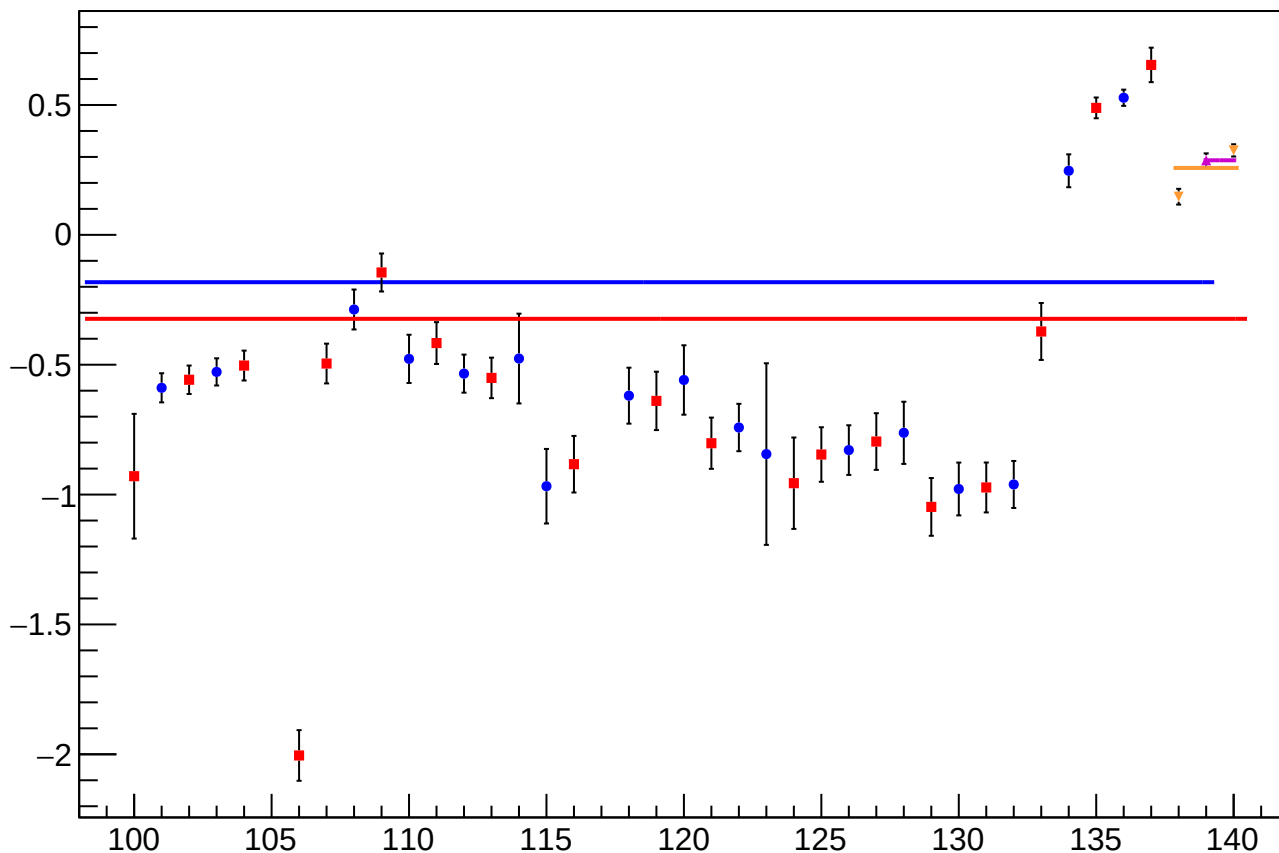
Right: 22.617+/-0.235  $\chi^2/\text{NDF}$ : 8384.4/35

In: 23.251+/-0.315  $\chi^2/\text{NDF}$ :4350.4/17

Out: 23.958+/-0.265  $\chi^2/\text{NDF}$ :4121.3/20

All: 23.665+/-0.203  $\chi^2/\text{NDF}$ : 8474.7/38

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:  $0.258 \pm 0.019$   $\chi^2/\text{NDF}$ : 21.5/1

Right Out:  $-0.323 \pm 0.018$   $\chi^2/\text{NDF}$ : 1184.5/18

Left In:  $0.287 \pm 0.027$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.267 \pm 0.015$   $\chi^2/\text{NDF}$ : 22.3/2

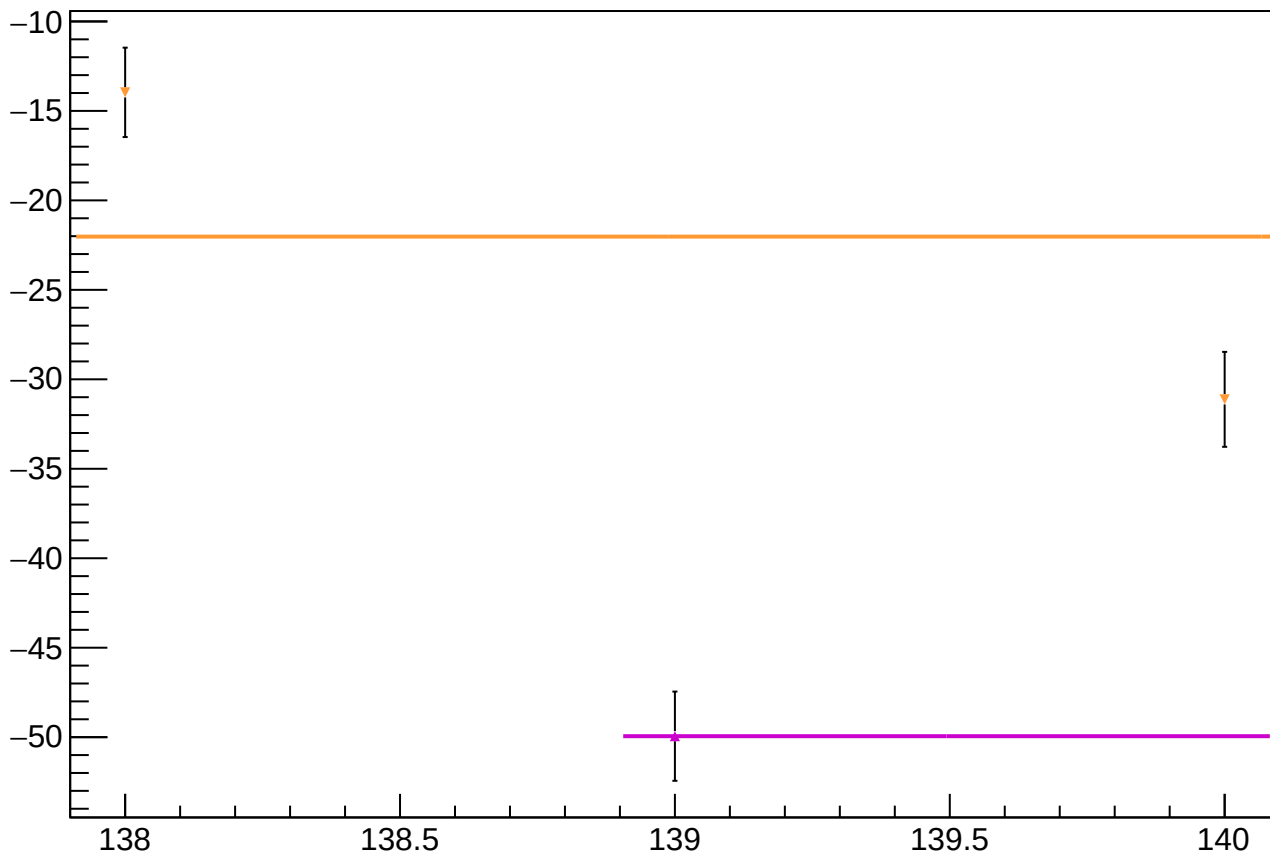
Right:  $-0.251 \pm 0.013$   $\chi^2/\text{NDF}$ : 2213.4/35

In:  $-0.038 \pm 0.015$   $\chi^2/\text{NDF}$ : 1212.9/17

Out:  $-0.041 \pm 0.013$   $\chi^2/\text{NDF}$ : 1704.0/20

All:  $-0.040 \pm 0.010$   $\chi^2/\text{NDF}$ : 2916.9/38

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: -22.025+/-1.819  $\chi^2/\text{NDF}$ : 22.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -49.945+/-2.493  $\chi^2/\text{NDF}$ : 0.0/0

Left: -31.722+/-1.469  $\chi^2/\text{NDF}$ : 104.0/2

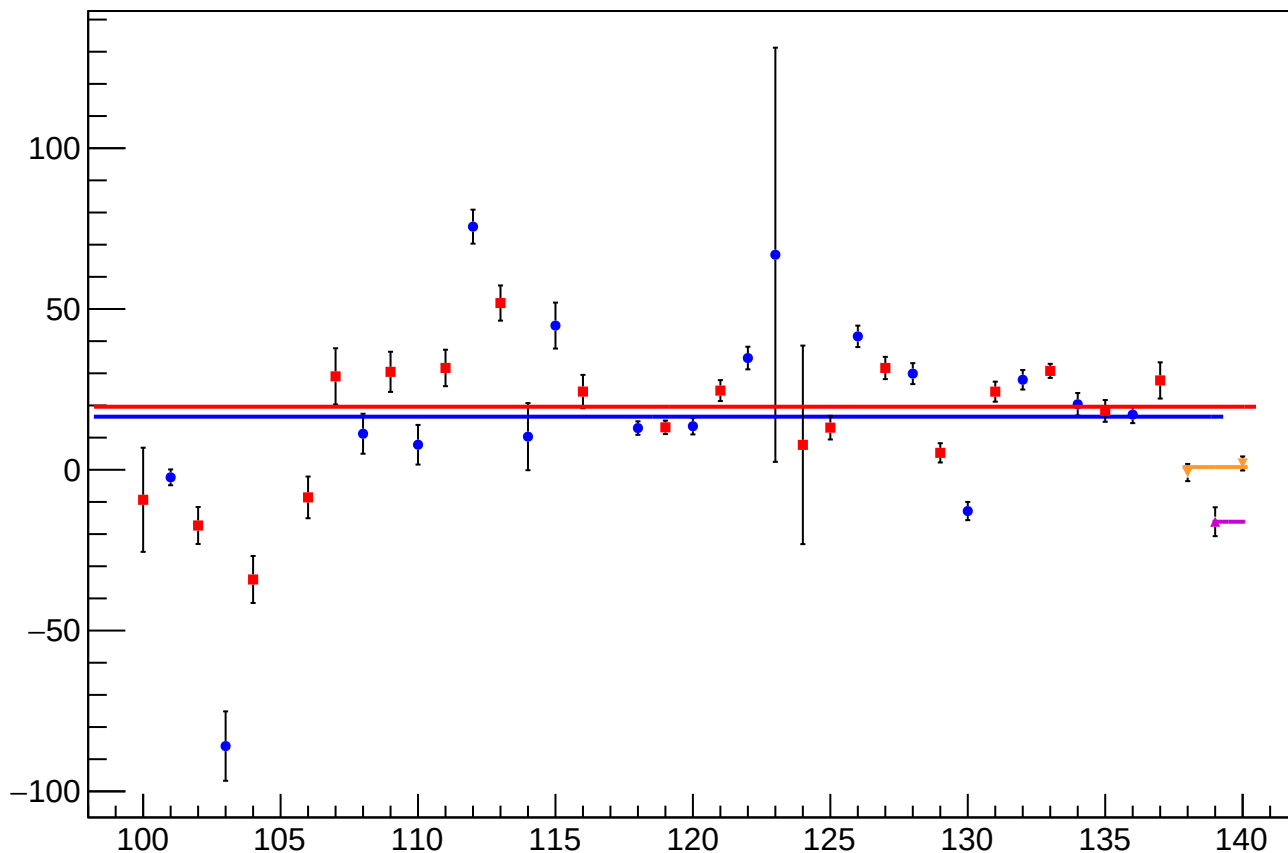
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -49.945+/-2.493  $\chi^2/\text{NDF}$ : 0.0/0

Out: -22.025+/-1.819  $\chi^2/\text{NDF}$ : 22.2/1

All: -31.722+/-1.469  $\chi^2/\text{NDF}$ : 104.0/2

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: 0.836 $\pm$ 1.692  $\chi^2$ /NDF: 0.7/1

Right Out: 19.604 $\pm$ 0.898  $\chi^2$ /NDF: 242.0/18

Left In: -16.151 $\pm$ 4.498  $\chi^2$ /NDF: 0.0/0

Left: -1.270 $\pm$ 1.584  $\chi^2$ /NDF: 13.2/2

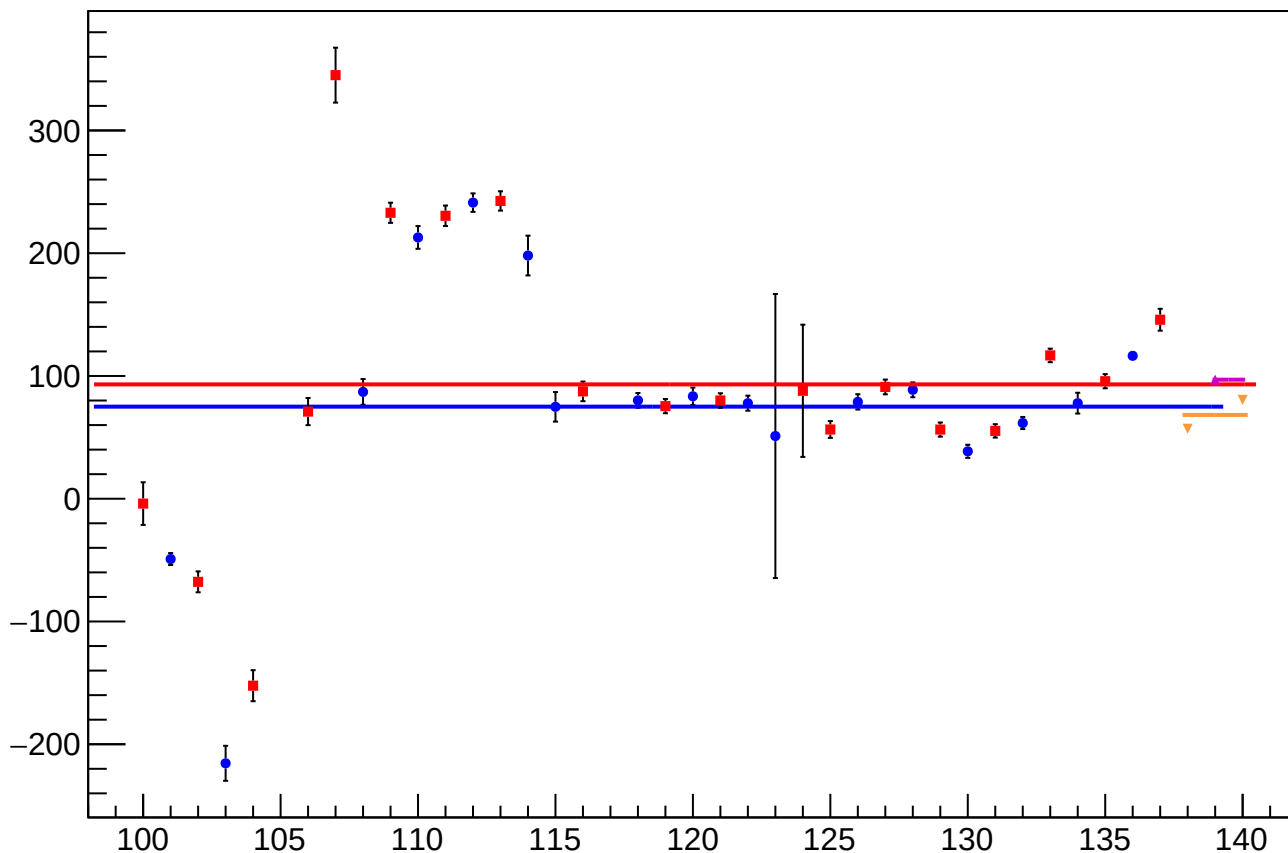
Right: 17.968 $\pm$ 0.616  $\chi^2$ /NDF: 767.9/35

In: 15.392 $\pm$ 0.833  $\chi^2$ /NDF: 570.6/17

Out: 15.478 $\pm$ 0.793  $\chi^2$ /NDF: 338.6/20

All: 15.437 $\pm$ 0.574  $\chi^2$ /NDF: 909.2/38

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: 68.260+/-1.956  $\chi^2/\text{NDF}$ : 36.0/1

Right Out: 93.140+/-1.711  $\chi^2/\text{NDF}$ : 2002.3/18

Left In: 96.985+/-2.699  $\chi^2/\text{NDF}$ : 0.0/0

Left: 78.151+/-1.584  $\chi^2/\text{NDF}$ : 110.3/2

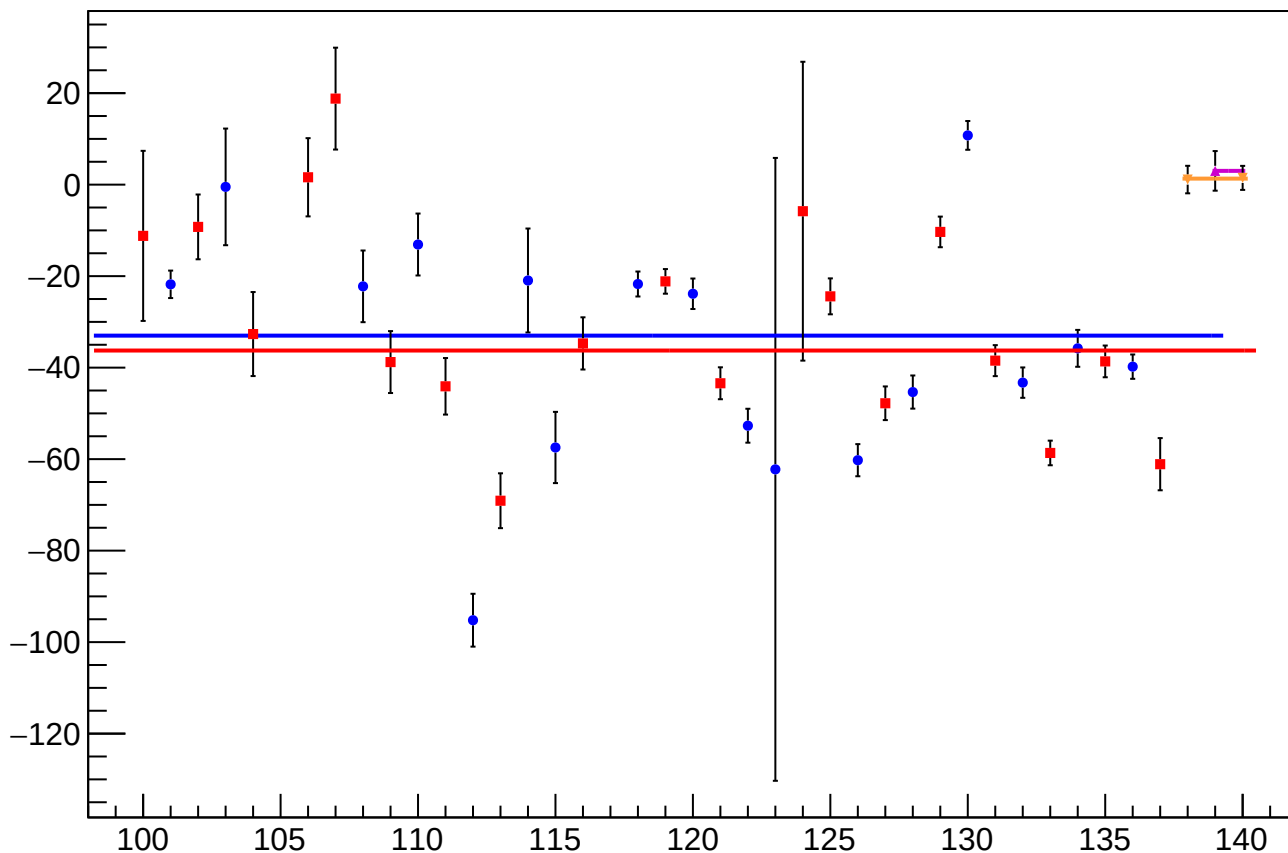
Right: 83.668+/-1.183  $\chi^2/\text{NDF}$ : 4060.3/35

In: 80.915+/-1.399  $\chi^2/\text{NDF}$ : 2047.8/17

Out: 82.352+/-1.288  $\chi^2/\text{NDF}$ : 2130.0/20

All: 81.693+/-0.947  $\chi^2/\text{NDF}$ : 4178.4/38

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:  $1.318 \pm 1.978$   $\chi^2/\text{NDF}: 0.0/1$

Right Out:  $-36.260 \pm 1.025$   $\chi^2/\text{NDF}: 297.1/18$

Left In:  $3.010 \pm 4.330$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $1.610 \pm 1.799$   $\chi^2/\text{NDF}: 0.1/2$

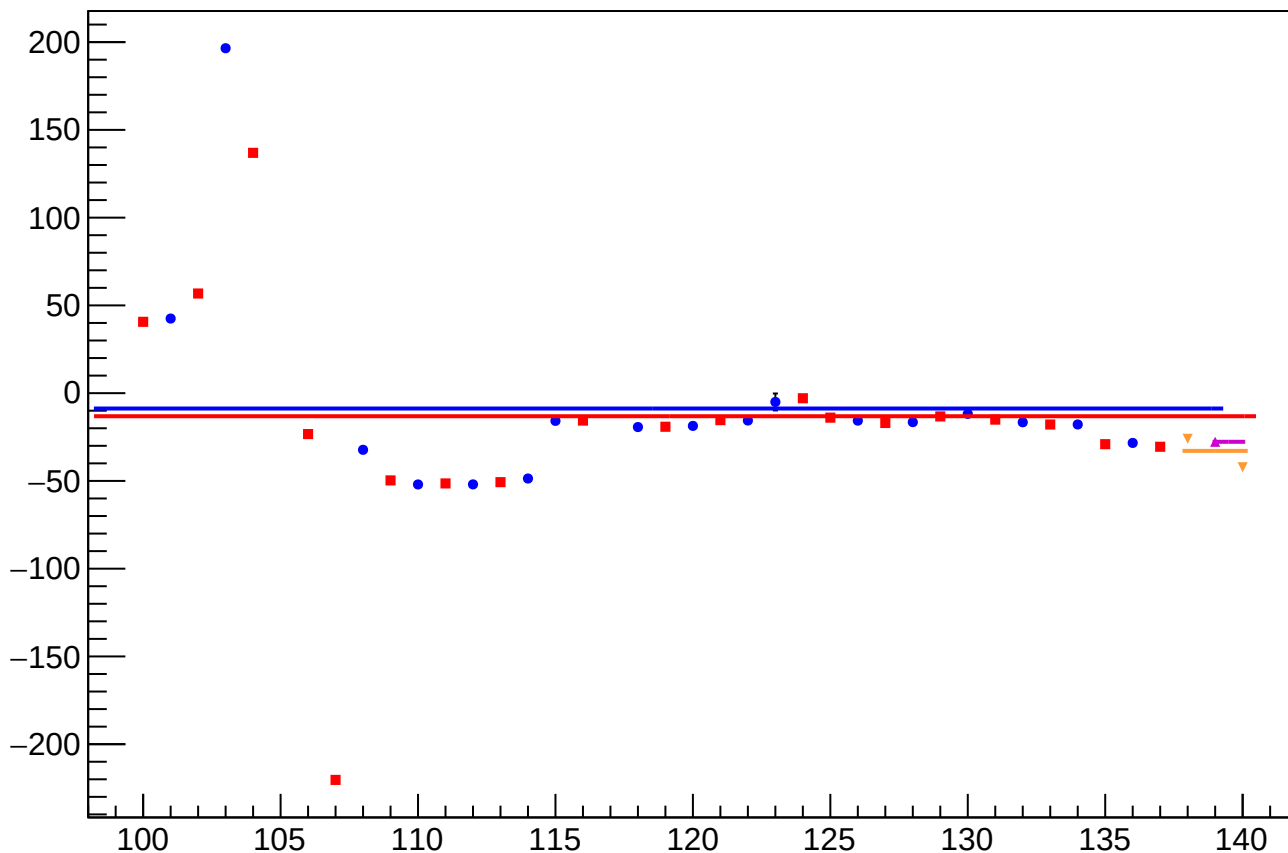
Right:  $-34.545 \pm 0.705$   $\chi^2/\text{NDF}: 795.4/35$

In:  $-31.278 \pm 0.948$   $\chi^2/\text{NDF}: 558.9/17$

Out:  $-28.302 \pm 0.910$   $\chi^2/\text{NDF}: 581.6/20$

All:  $-29.729 \pm 0.657$   $\chi^2/\text{NDF}: 1145.6/38$

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:  $-32.877 \pm 0.080$   $\chi^2/\text{NDF}$ : 10047.9/1

Right Out:  $-13.143 \pm 0.062$   $\chi^2/\text{NDF}$ : 558628.0/18

Left In:  $-27.705 \pm 0.095$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-30.735 \pm 0.061$   $\chi^2/\text{NDF}$ : 11779.6/2

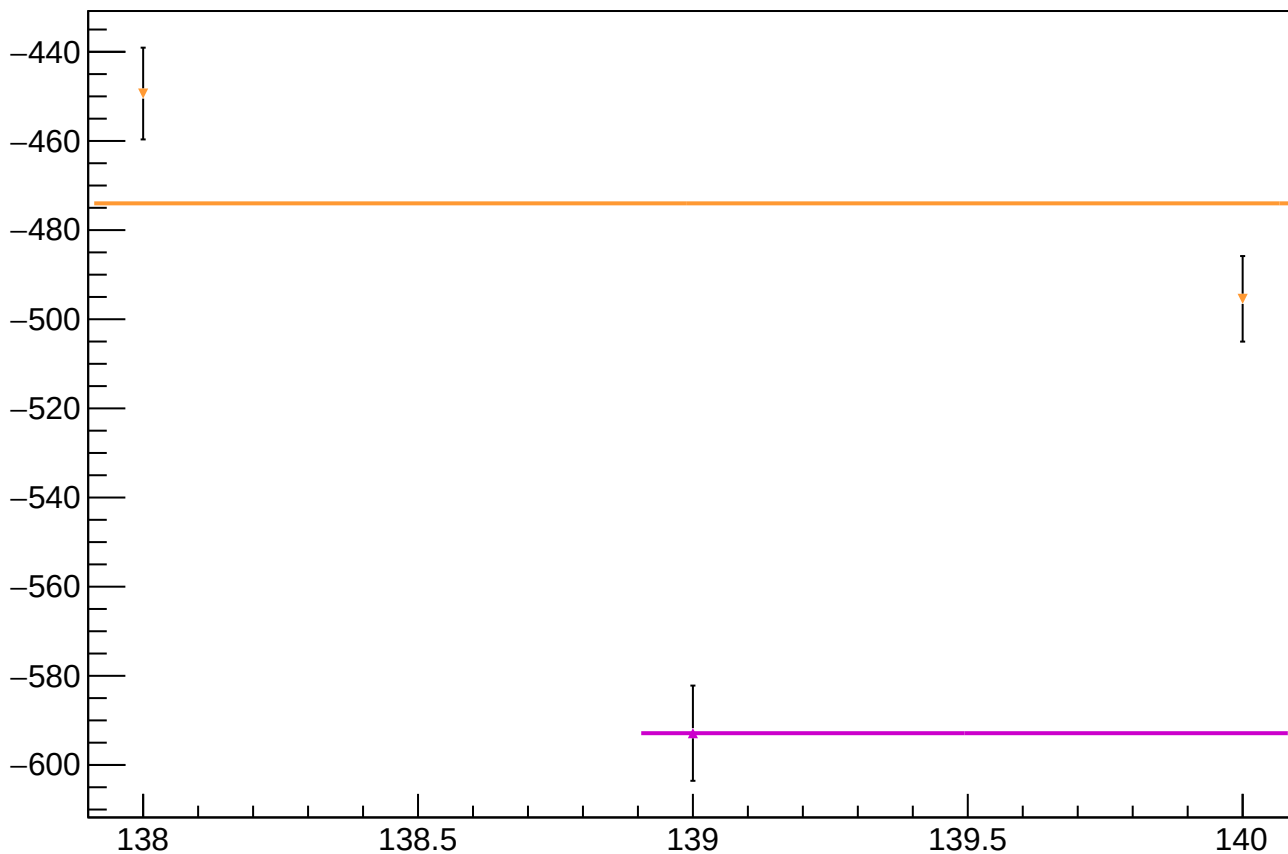
Right:  $-10.840 \pm 0.043$   $\chi^2/\text{NDF}$ : 1137294.9/35

In:  $-13.991 \pm 0.050$   $\chi^2/\text{NDF}$ : 604733.1/17

Out:  $-20.509 \pm 0.049$   $\chi^2/\text{NDF}$ : 606820.5/20

All:  $-17.326 \pm 0.035$   $\chi^2/\text{NDF}$ : 1220240.2/38

reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -473.999+/-7.019  $\chi^2/\text{NDF}$ : 10.7/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -592.872+/-10.680  $\chi^2/\text{NDF}$ : 0.0/0

Left: -509.859+/-5.866  $\chi^2/\text{NDF}$ : 97.2/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

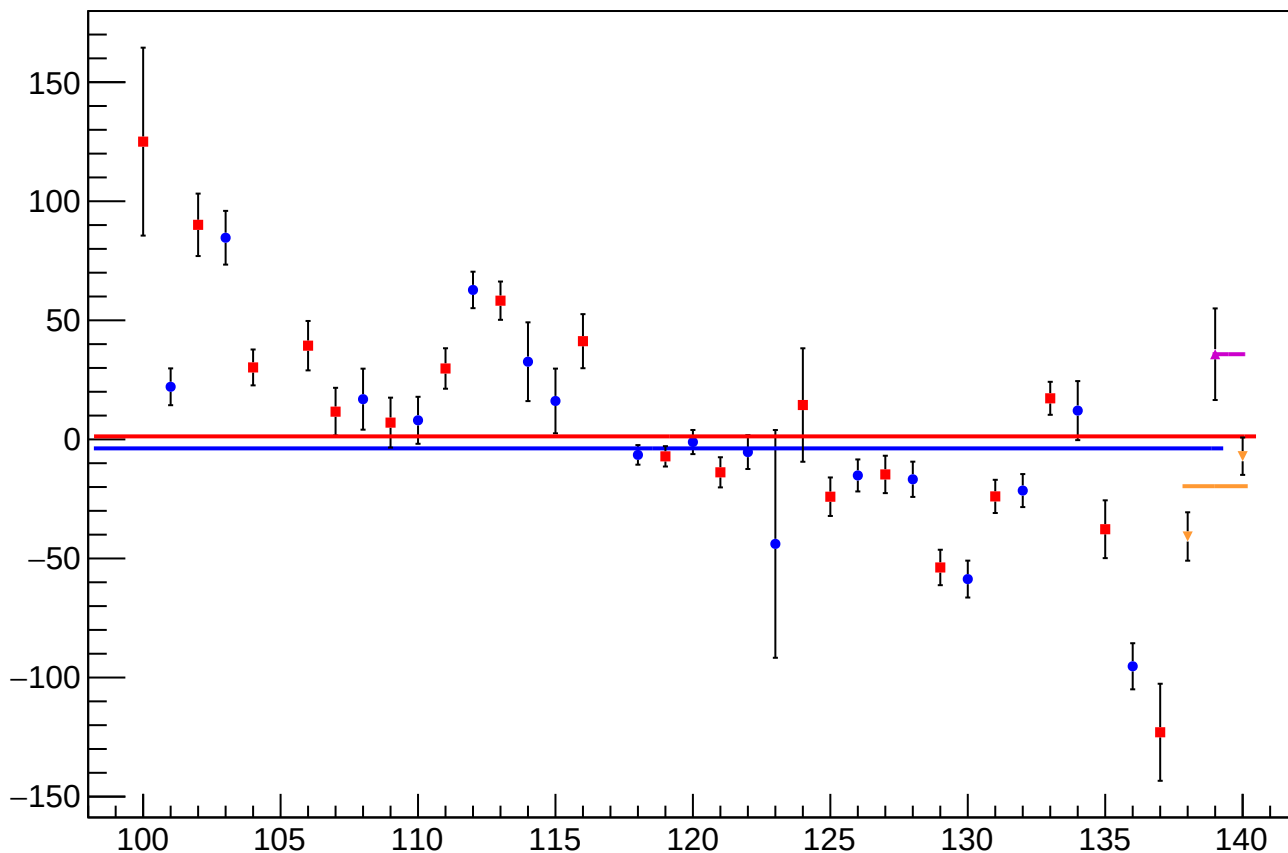
In: -592.872+/-10.680  $\chi^2/\text{NDF}$ : 0.0/0

Out: -473.999+/-7.019  $\chi^2/\text{NDF}$ : 10.7/1

All: -509.859+/-5.866  $\chi^2/\text{NDF}$ : 97.2/2



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:  $-19.653 \pm 6.213$   $\chi^2/\text{NDF}$ : 6.9/1

Right Out:  $1.265 \pm 1.920$   $\chi^2/\text{NDF}$ : 303.7/18

Left In:  $35.770 \pm 19.233$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-14.416 \pm 5.912$   $\chi^2/\text{NDF}$ : 14.4/2

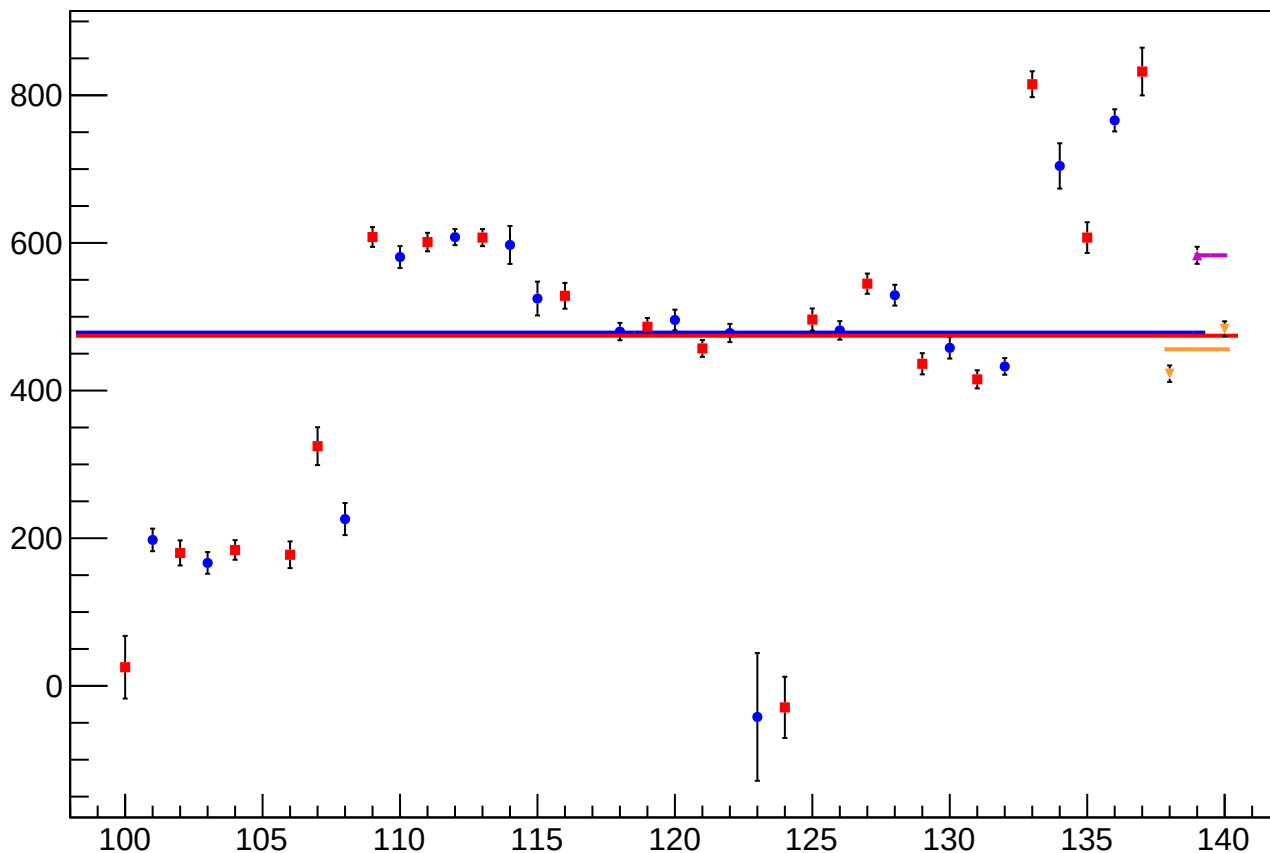
Right:  $-1.296 \pm 1.346$   $\chi^2/\text{NDF}$ : 621.6/35

In:  $-3.396 \pm 1.879$   $\chi^2/\text{NDF}$ : 318.5/17

Out:  $-0.558 \pm 1.835$   $\chi^2/\text{NDF}$ : 321.0/20

All:  $-1.943 \pm 1.313$   $\chi^2/\text{NDF}$ : 640.7/38

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.526+/-3.630  $\chi^2/\text{NDF}$ : 1629.0/16

Left Out: 455.926+/-7.535  $\chi^2/\text{NDF}$ :16.1/1

Right Out: 474.328+/-3.533  $\chi^2/\text{NDF}$ : 2287.1/18

Left In: 583.230+/-11.565  $\chi^2/\text{NDF}$ :0.0/0

Left: 493.863+/-6.314  $\chi^2/\text{NDF}$ : 101.1/2

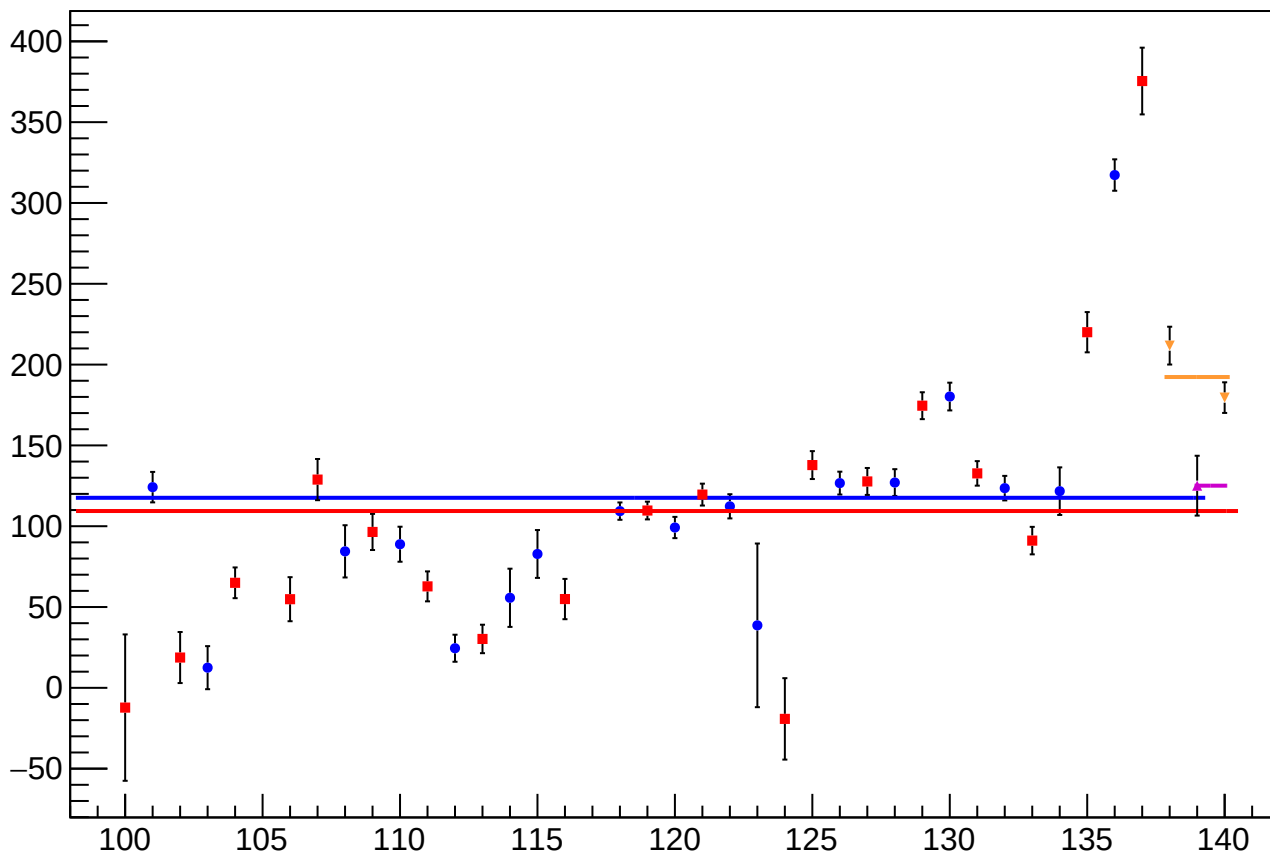
Right: 476.370+/-2.532  $\chi^2/\text{NDF}$ : 3916.8/35

In: 487.916+/-3.463  $\chi^2/\text{NDF}$ :1703.6/17

Out: 471.013+/-3.199  $\chi^2/\text{NDF}$ :2308.1/20

All: 478.793+/-2.350  $\chi^2/\text{NDF}$ : 4024.6/38

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 117.585 $\pm$ 2.193  $\chi^2$ /NDF: 706.9/16

Left Out: 192.310 $\pm$ 7.364  $\chi^2$ /NDF:4.6/1

Right Out: 109.400 $\pm$ 2.210  $\chi^2$ /NDF: 571.2/18

Left In: 125.086 $\pm$ 18.513  $\chi^2$ /NDF:0.0/0

Left: 183.127 $\pm$ 6.842  $\chi^2$ /NDF: 15.9/2

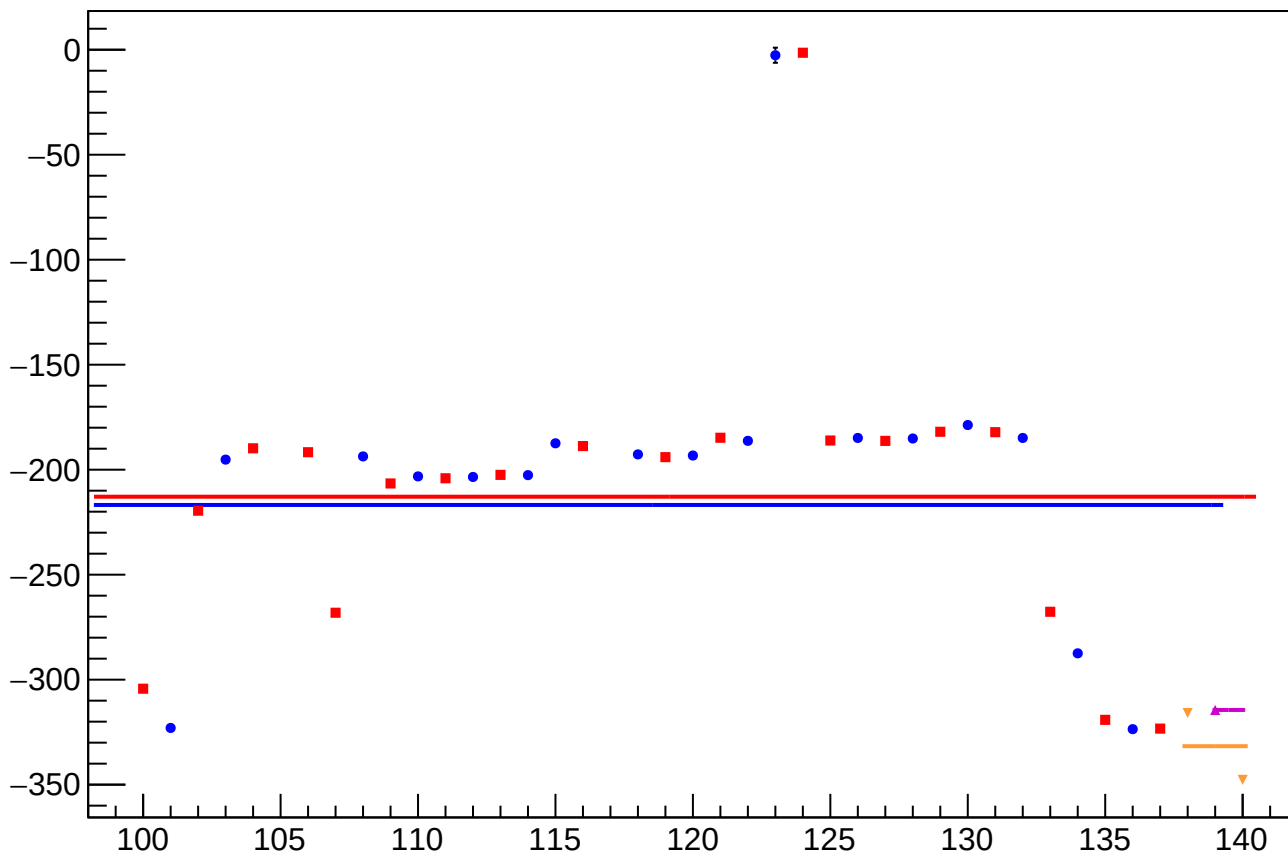
Right: 113.524 $\pm$ 1.557  $\chi^2$ /NDF: 1285.0/35

In: 117.689 $\pm$ 2.178  $\chi^2$ /NDF:707.1/17

Out: 116.249 $\pm$ 2.117  $\chi^2$ /NDF:692.0/20

All: 116.949 $\pm$ 1.518  $\chi^2$ /NDF: 1399.3/38

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -216.796+/-0.136  $\chi^2/\text{NDF}$ : 146976.1/16

Left Out: -331.678+/-0.315  $\chi^2/\text{NDF}$ : 2555.5/1

Right Out: -212.869+/-0.130  $\chi^2/\text{NDF}$ : 116393.6/18

Left In: -314.423+/-0.407  $\chi^2/\text{NDF}$ : 0.0/0

Left: -325.220+/-0.249  $\chi^2/\text{NDF}$ : 3680.1/2

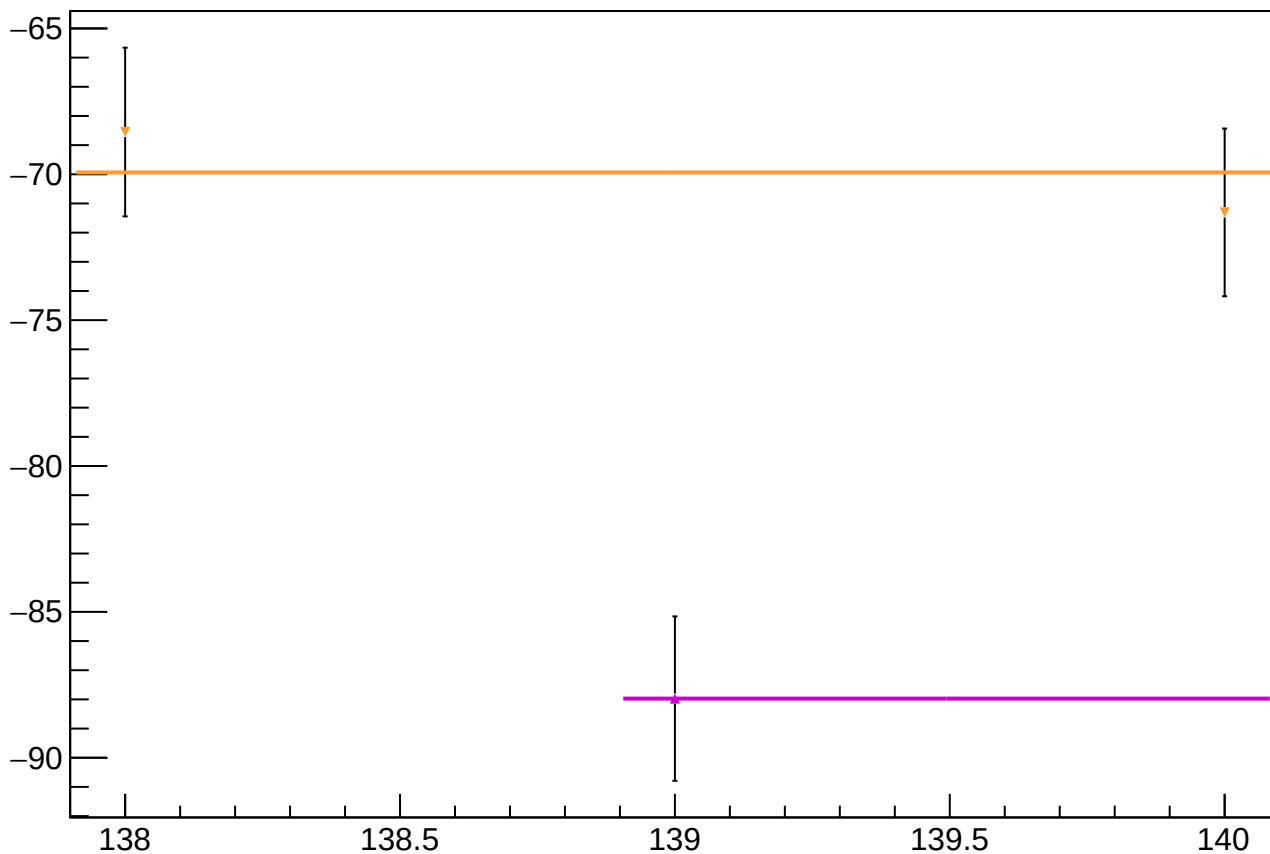
Right: -214.751+/-0.094  $\chi^2/\text{NDF}$ : 263806.1/35

In: -226.556+/-0.129  $\chi^2/\text{NDF}$ : 198757.6/17

Out: -230.215+/-0.120  $\chi^2/\text{NDF}$ : 240611.7/20

All: -228.509+/-0.088  $\chi^2/\text{NDF}$ : 439800.9/38

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: -69.937+/-2.039  $\chi^2/\text{NDF}$ : 0.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -87.973+/-2.818  $\chi^2/\text{NDF}$ : 0.0/0

Left: -76.134+/-1.652  $\chi^2/\text{NDF}$ : 27.4/2

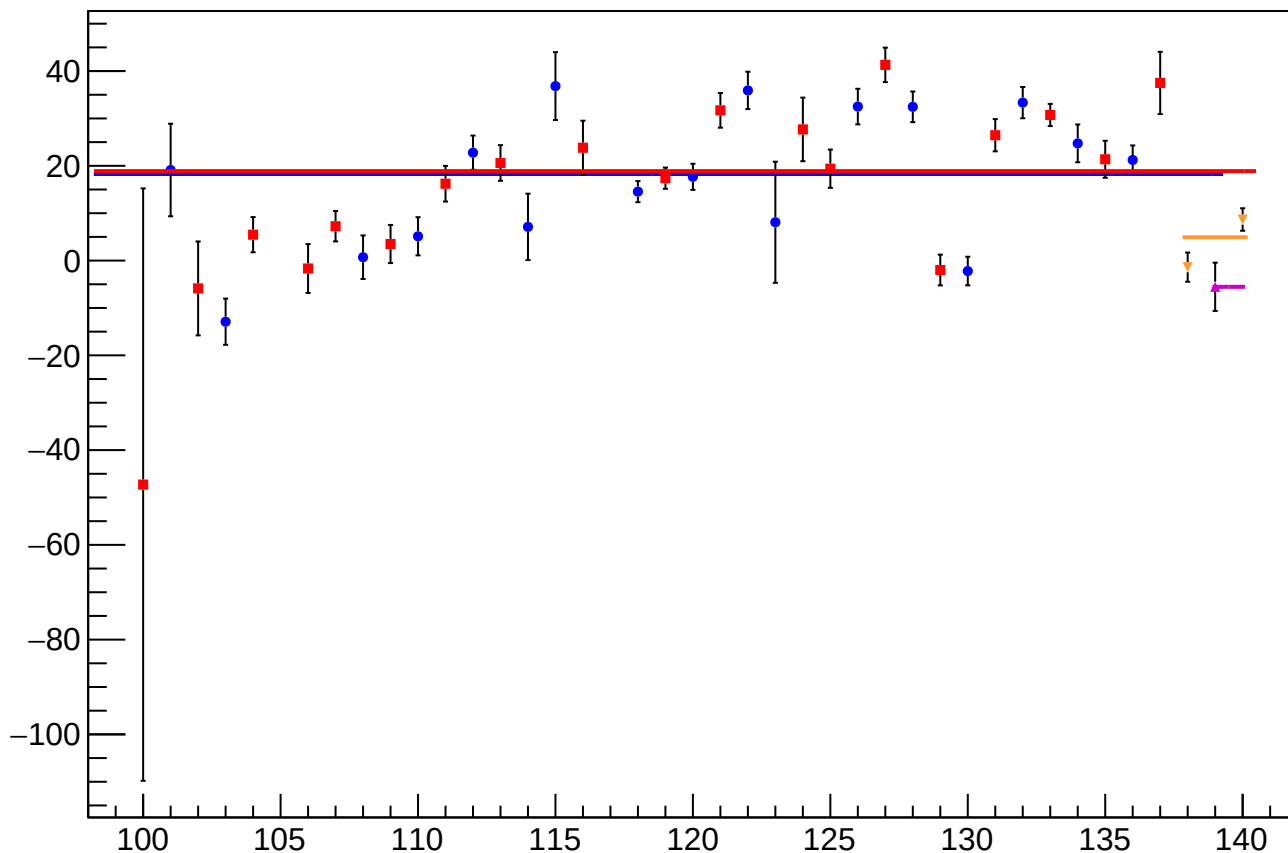
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -87.973+/-2.818  $\chi^2/\text{NDF}$ : 0.0/0

Out: -69.937+/-2.039  $\chi^2/\text{NDF}$ : 0.5/1

All: -76.134+/-1.652  $\chi^2/\text{NDF}$ : 27.4/2

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.279+/-0.906  $\chi^2/\text{NDF}$ : 204.6/16

Left Out: 4.917+/-1.880  $\chi^2/\text{NDF}$ : 6.7/1

Right Out: 18.882+/-0.864  $\chi^2/\text{NDF}$ : 198.4/18

Left In: -5.538+/-5.092  $\chi^2/\text{NDF}$ : 0.0/0

Left: 3.662+/-1.764  $\chi^2/\text{NDF}$ : 10.4/2

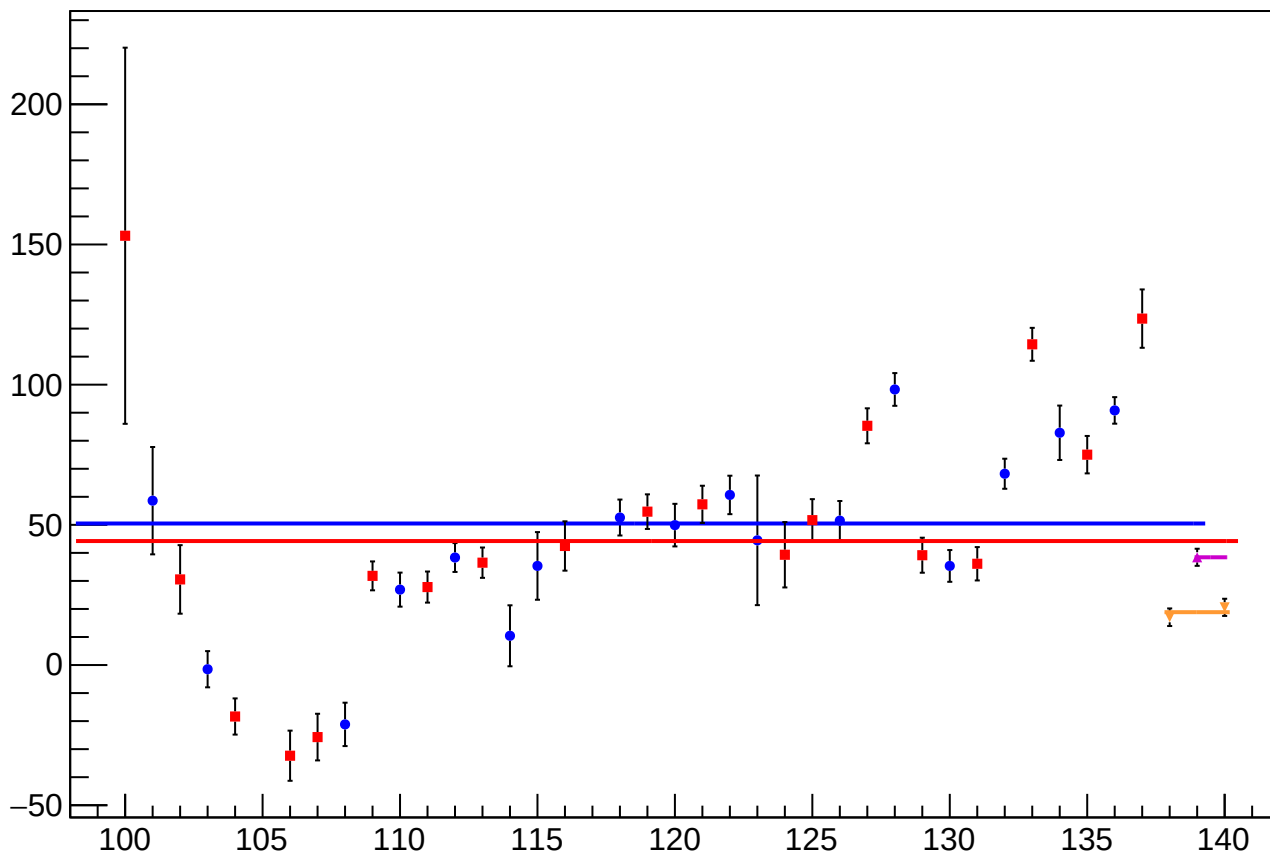
Right: 18.595+/-0.625  $\chi^2/\text{NDF}$ : 403.2/35

In: 17.549+/-0.892  $\chi^2/\text{NDF}$ : 225.8/17

Out: 16.446+/-0.785  $\chi^2/\text{NDF}$ : 250.7/20

All: 16.928+/-0.589  $\chi^2/\text{NDF}$ : 477.3/38

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 50.482 $\pm$ 1.668  $\chi^2$ /NDF: 357.9/16

Left Out: 18.854 $\pm$ 2.191  $\chi^2$ /NDF:0.6/1

Right Out: 44.222 $\pm$ 1.602  $\chi^2$ /NDF: 534.4/18

Left In: 38.430 $\pm$ 3.049  $\chi^2$ /NDF:0.0/0

Left: 25.519 $\pm$ 1.779  $\chi^2$ /NDF: 27.8/2

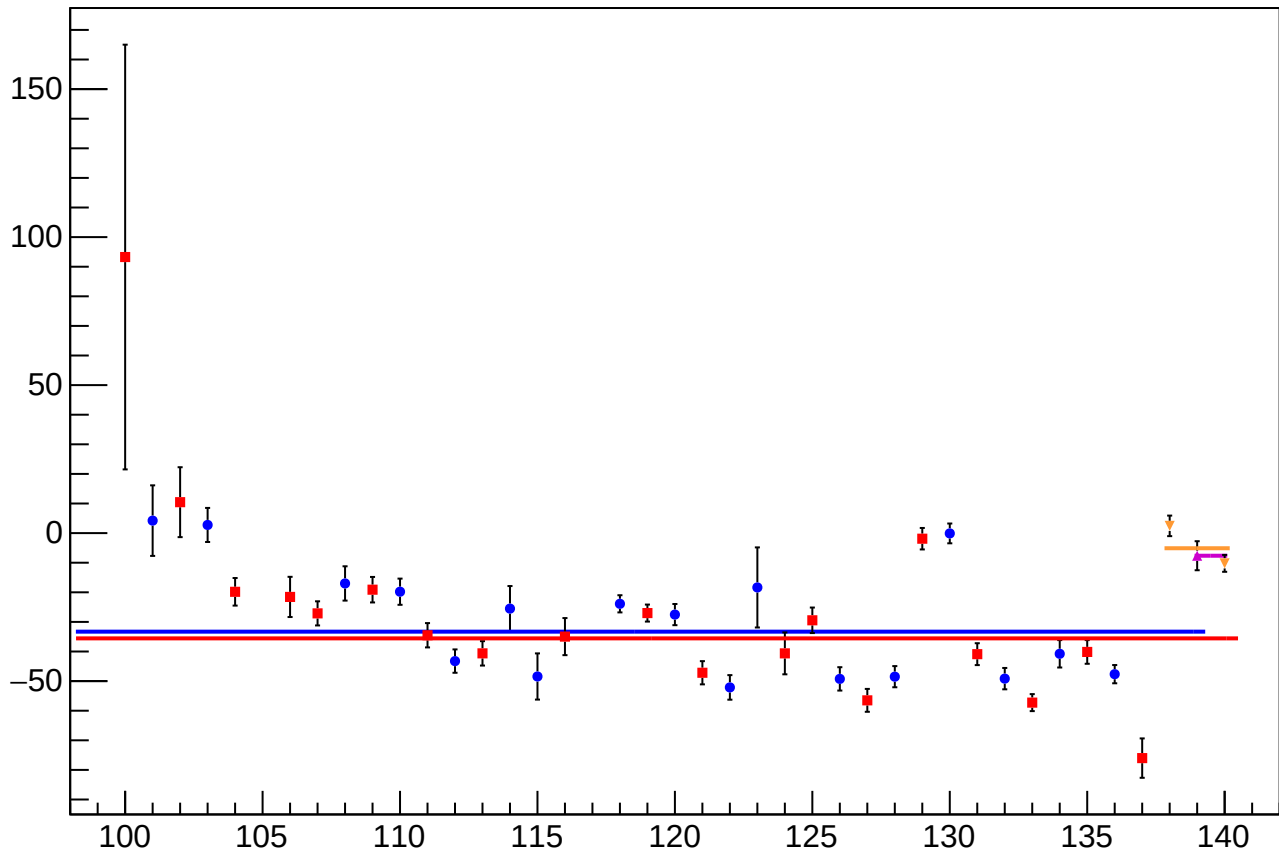
Right: 47.226 $\pm$ 1.156  $\chi^2$ /NDF: 899.6/35

In: 47.706 $\pm$ 1.463  $\chi^2$ /NDF:369.9/17

Out: 35.380 $\pm$ 1.293  $\chi^2$ /NDF:622.4/20

All: 40.786 $\pm$ 0.969  $\chi^2$ /NDF: 1032.1/38

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:  $-5.113 \pm 2.204$   $\chi^2/\text{NDF}$ : 7.9/1

Right Out:  $-35.566 \pm 0.992$   $\chi^2/\text{NDF}$ : 287.6/18

Left In:  $-7.641 \pm 4.904$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-5.538 \pm 2.010$   $\chi^2/\text{NDF}$ : 8.2/2

Right:  $-34.474 \pm 0.716$   $\chi^2/\text{NDF}$ : 579.3/35

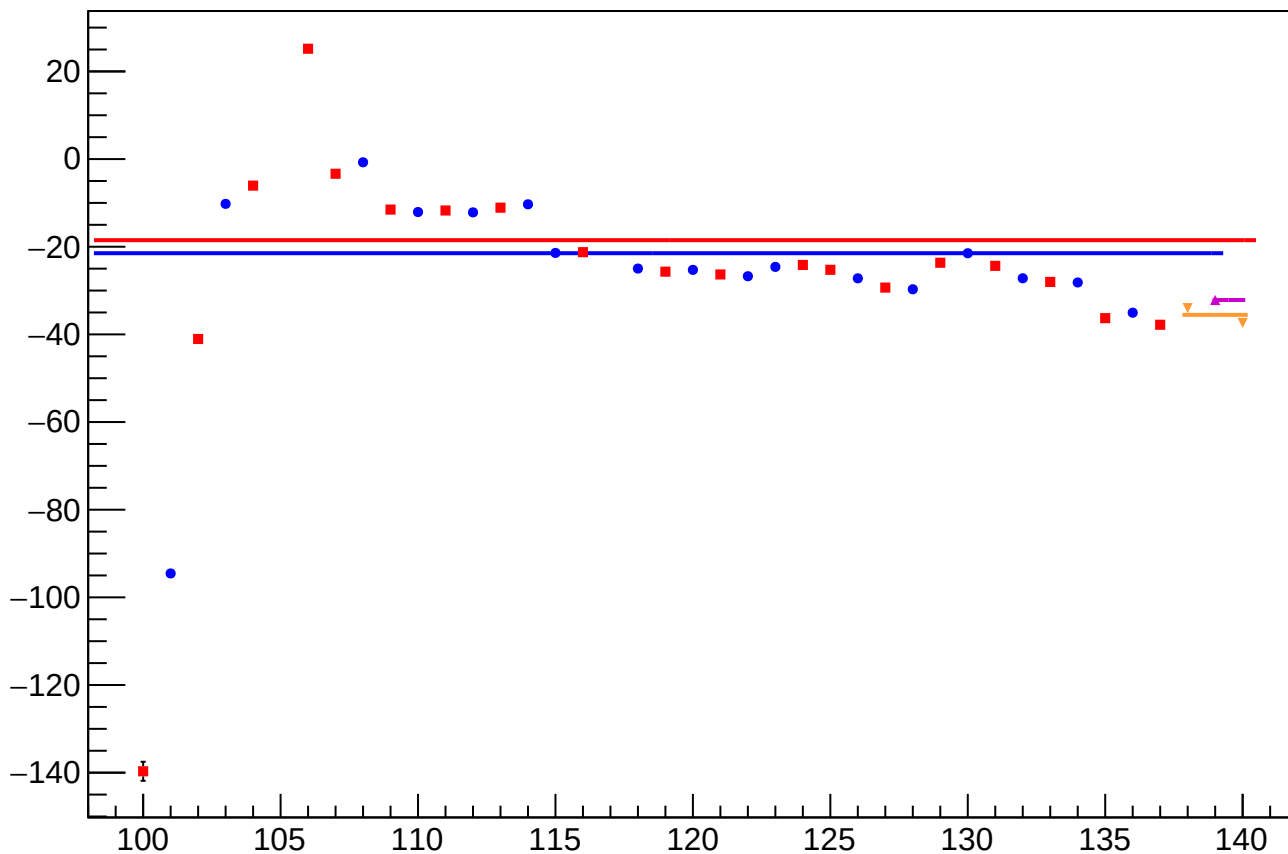
In:  $-32.202 \pm 1.011$   $\chi^2/\text{NDF}$ : 315.3/17

Out:  $-30.431 \pm 0.905$   $\chi^2/\text{NDF}$ : 454.3/20

All:  $-31.219 \pm 0.674$   $\chi^2/\text{NDF}$ : 771.3/38



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:  $-35.547 \pm 0.090$   $\chi^2/\text{NDF}: 350.1/1$

Right Out:  $-18.506 \pm 0.057$   $\chi^2/\text{NDF}: 80734.5/18$

Left In:  $-32.155 \pm 0.108$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-34.150 \pm 0.069$   $\chi^2/\text{NDF}: 934.1/2$

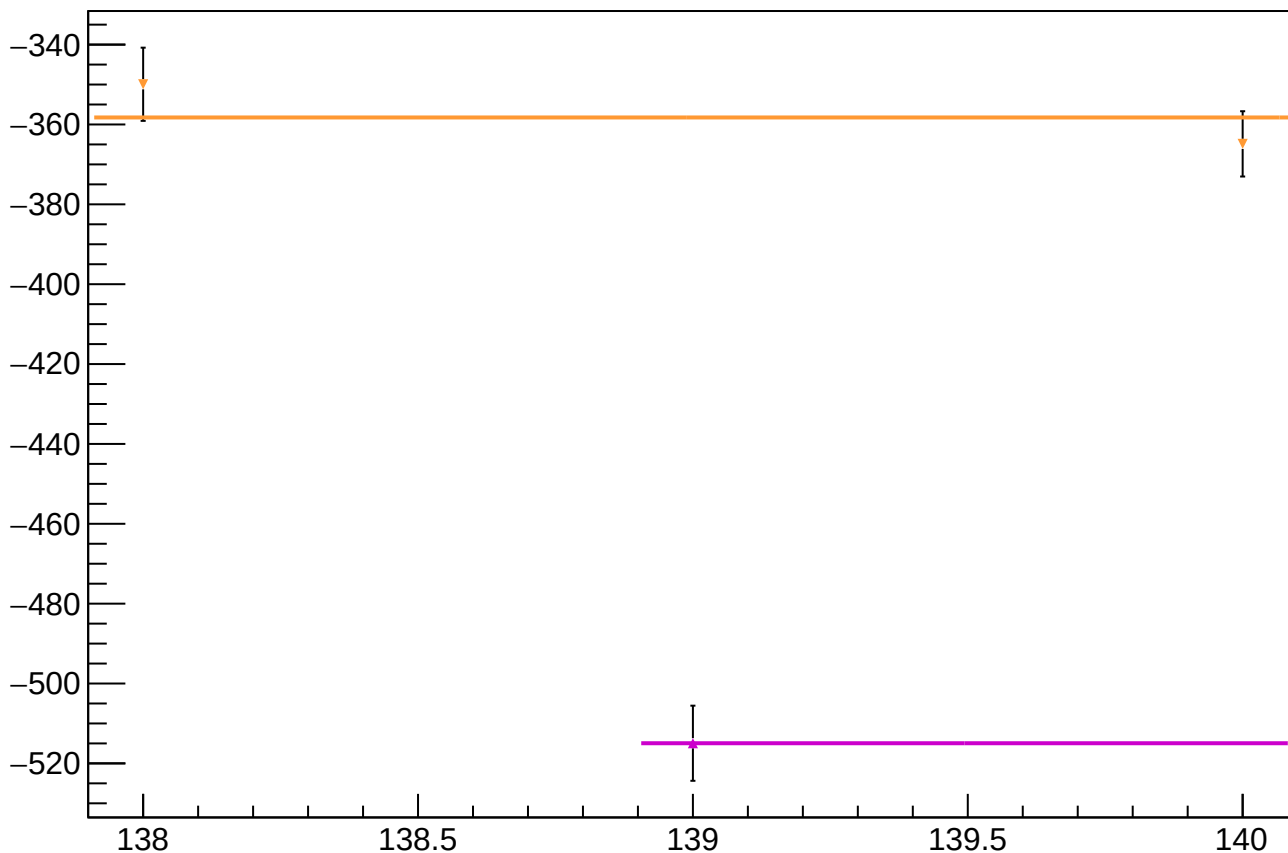
Right:  $-19.957 \pm 0.041$   $\chi^2/\text{NDF}: 131054.3/35$

In:  $-23.924 \pm 0.052$   $\chi^2/\text{NDF}: 56600.2/17$

Out:  $-23.420 \pm 0.048$   $\chi^2/\text{NDF}: 106548.4/20$

All:  $-23.656 \pm 0.035$   $\chi^2/\text{NDF}: 163199.3/38$

reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -358.246 $\pm$ 6.101  $\chi^2/\text{NDF}$ : 1.5/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -514.954 $\pm$ 9.407  $\chi^2/\text{NDF}$ : 0.0/0

Left: -404.645 $\pm$ 5.119  $\chi^2/\text{NDF}$ : 196.8/2

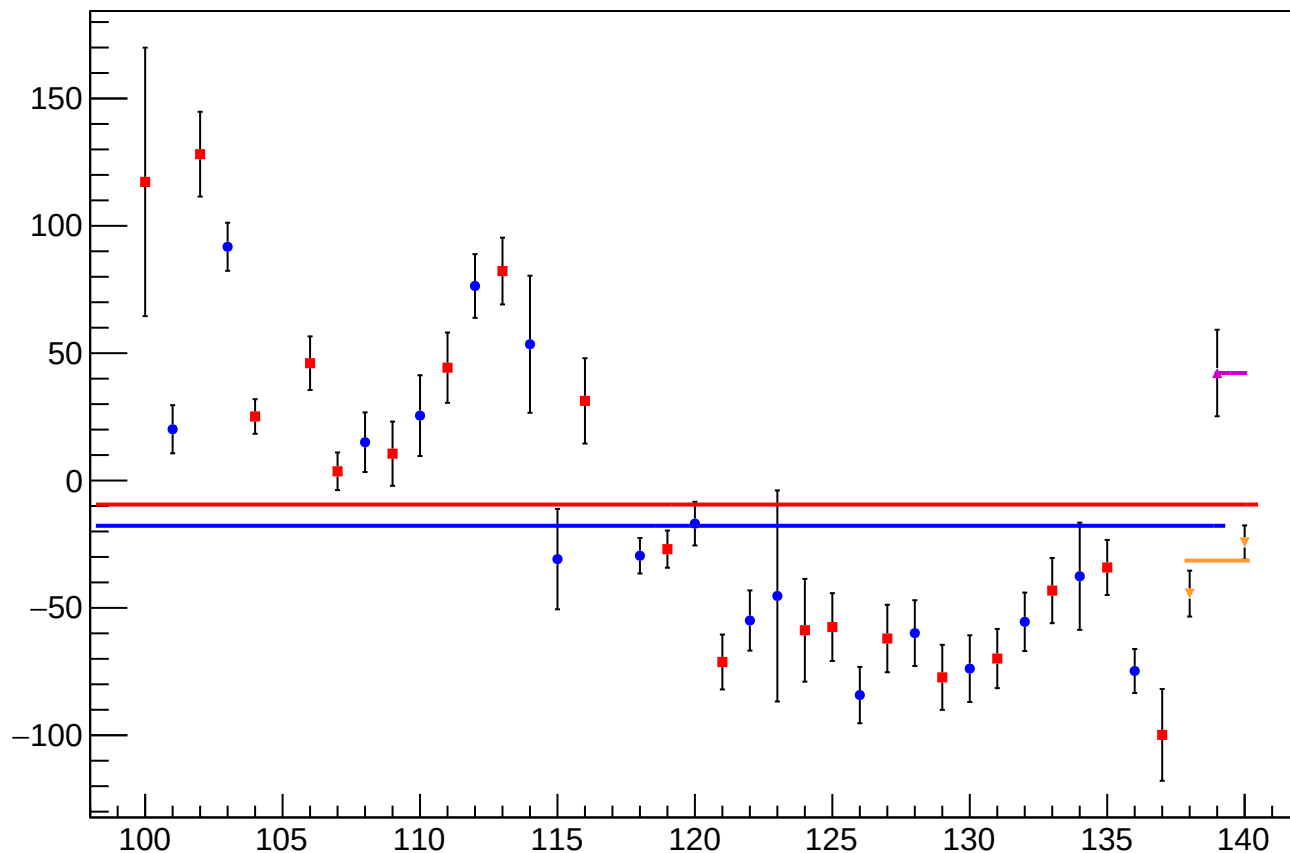
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -514.954 $\pm$ 9.407  $\chi^2/\text{NDF}$ : 0.0/0

Out: -358.246 $\pm$ 6.101  $\chi^2/\text{NDF}$ : 1.5/1

All: -404.645 $\pm$ 5.119  $\chi^2/\text{NDF}$ : 196.8/2

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:  $-31.433 \pm 5.369$   $\chi^2/\text{NDF}$ : 3.2/1

Right Out:  $-9.417 \pm 2.613$   $\chi^2/\text{NDF}$ : 369.6/18

Left In:  $42.212 \pm 16.982$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-24.740 \pm 5.119$   $\chi^2/\text{NDF}$ : 20.3/2

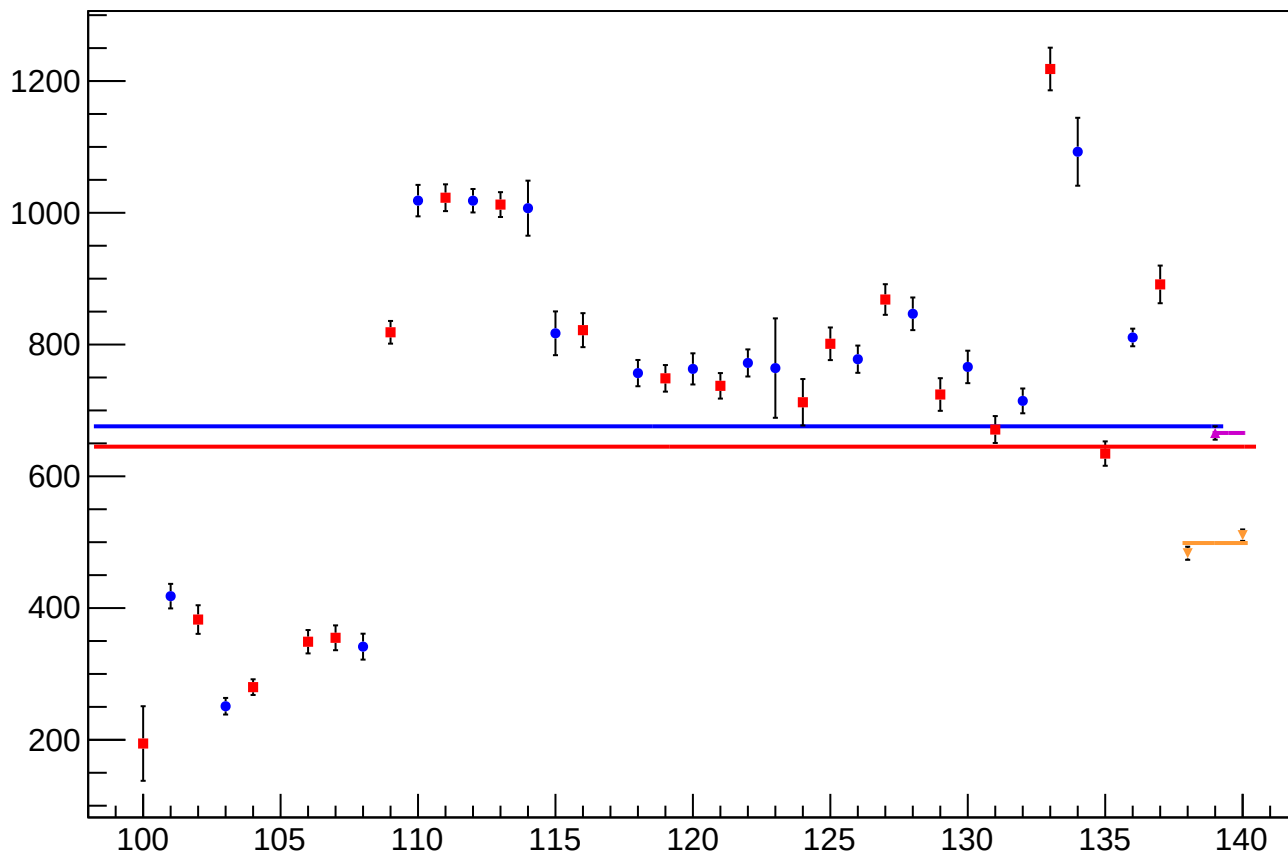
Right:  $-13.331 \pm 1.905$   $\chi^2/\text{NDF}$ : 738.2/35

In:  $-16.198 \pm 2.745$   $\chi^2/\text{NDF}$ : 376.0/17

Out:  $-13.633 \pm 2.350$   $\chi^2/\text{NDF}$ : 386.4/20

All:  $-14.718 \pm 1.785$   $\chi^2/\text{NDF}$ : 762.9/38

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 675.871+/-5.037  $\chi^2/\text{NDF}$ : 2586.4/16

Left Out: 498.739+/-6.547  $\chi^2/\text{NDF}$ : 4.3/1

Right Out: 645.014+/-4.761  $\chi^2/\text{NDF}$ : 3123.3/18

Left In: 665.799+/-10.182  $\chi^2/\text{NDF}$ : 0.0/0

Left: 547.602+/-5.507  $\chi^2/\text{NDF}$ : 194.8/2

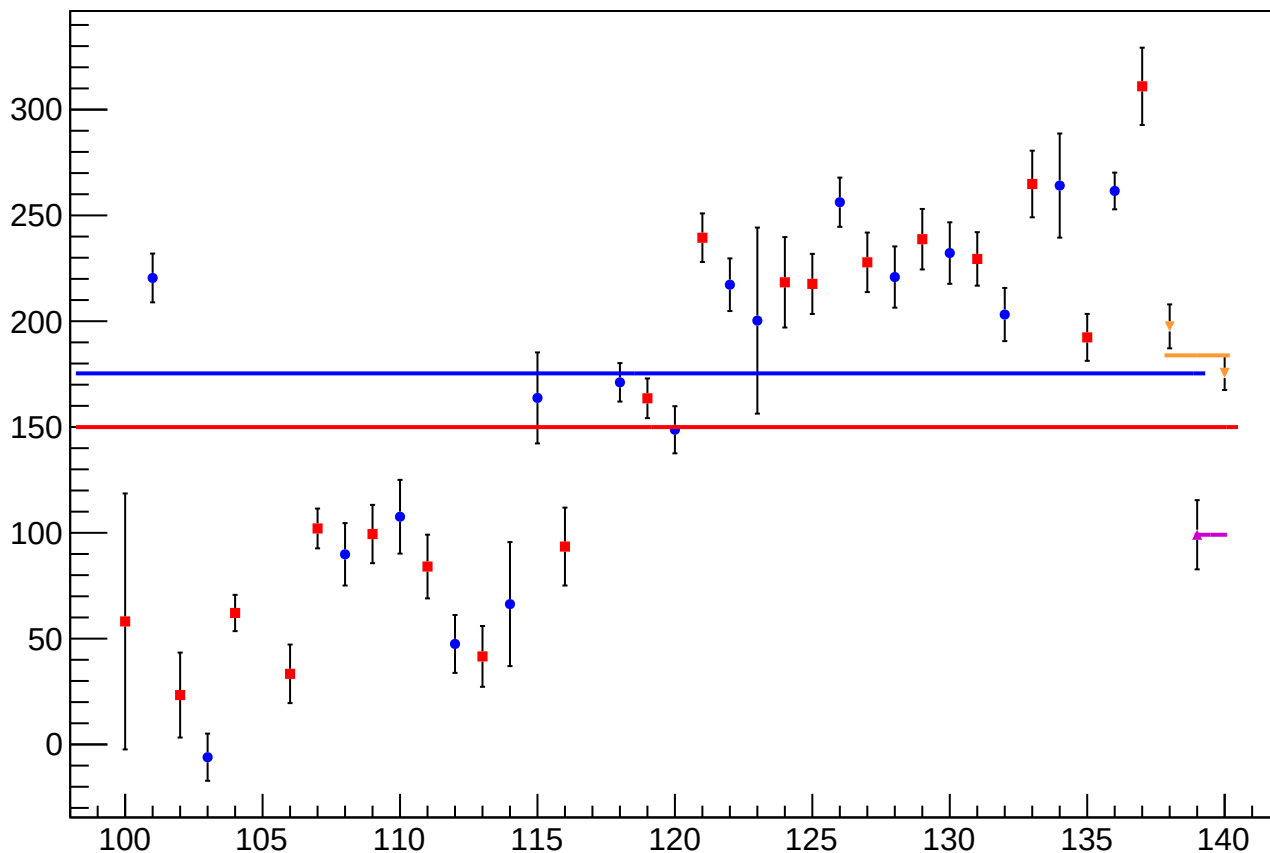
Right: 659.573+/-3.460  $\chi^2/\text{NDF}$ : 5729.5/35

In: 673.891+/-4.515  $\chi^2/\text{NDF}$ : 2587.2/17

Out: 594.414+/-3.850  $\chi^2/\text{NDF}$ : 3454.1/20

All: 627.879+/-2.930  $\chi^2/\text{NDF}$ : 6220.7/38

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 175.341+/-3.203  $\chi^2/\text{NDF}$ : 638.5/16

Left Out: 183.867+/-6.376  $\chi^2/\text{NDF}$ : 2.8/1

Right Out: 149.966+/-3.045  $\chi^2/\text{NDF}$ : 693.2/18

Left In: 99.088+/-16.350  $\chi^2/\text{NDF}$ : 0.0/0

Left: 172.677+/-5.940  $\chi^2/\text{NDF}$ : 26.1/2

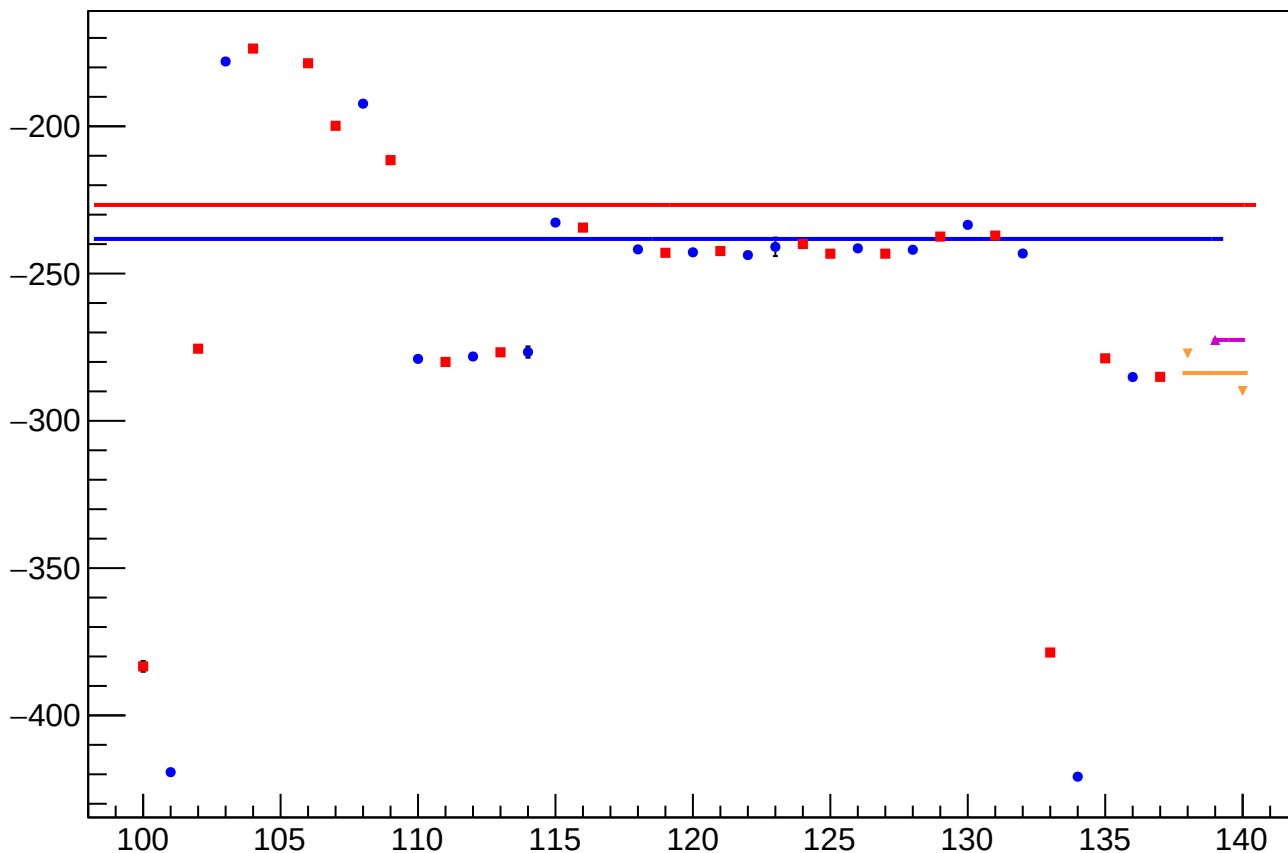
Right: 162.013+/-2.207  $\chi^2/\text{NDF}$ : 1364.6/35

In: 172.523+/-3.143  $\chi^2/\text{NDF}$ : 659.4/17

Out: 156.263+/-2.748  $\chi^2/\text{NDF}$ : 719.0/20

All: 163.307+/-2.069  $\chi^2/\text{NDF}$ : 1393.5/38

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -238.248+/-0.160  $\chi^2/\text{NDF}$ : 167125.9/16

Left Out: -283.763+/-0.274  $\chi^2/\text{NDF}$ : 537.4/1

Right Out: -226.706+/-0.151  $\chi^2/\text{NDF}$ : 102831.3/18

Left In: -272.527+/-0.359  $\chi^2/\text{NDF}$ : 0.0/0

Left: -279.629+/-0.218  $\chi^2/\text{NDF}$ : 1154.9/2

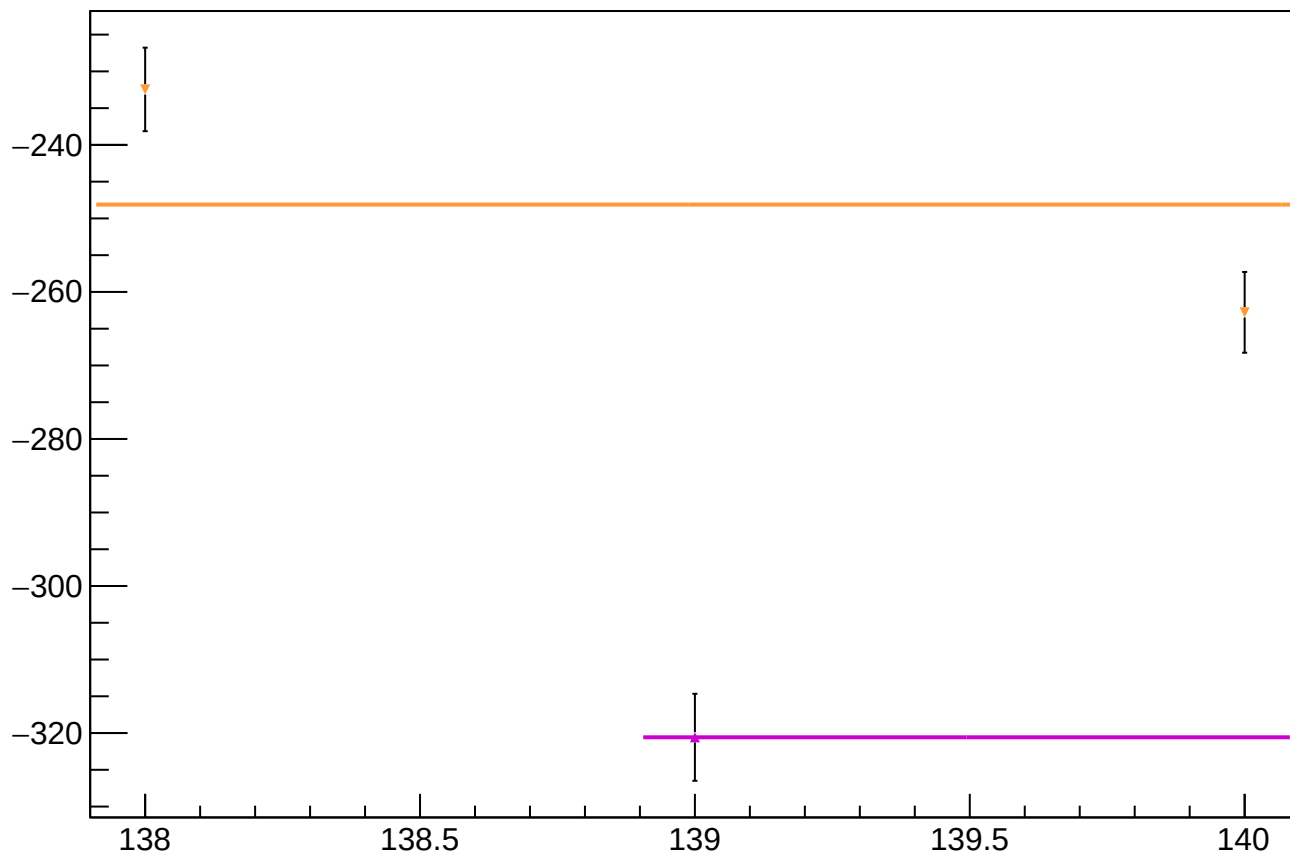
Right: -232.150+/-0.110  $\chi^2/\text{NDF}$ : 272709.4/35

In: -243.912+/-0.146  $\chi^2/\text{NDF}$ : 174717.3/17

Out: -239.992+/-0.132  $\chi^2/\text{NDF}$ : 136571.8/20

All: -241.759+/-0.098  $\chi^2/\text{NDF}$ : 311684.5/38

reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -248.121+/-3.949  $\chi^2/\text{NDF}$ :14.7/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -320.579+/-5.916  $\chi^2/\text{NDF}$ :0.0/0

Left: -270.454+/-3.285  $\chi^2/\text{NDF}$ : 118.5/2

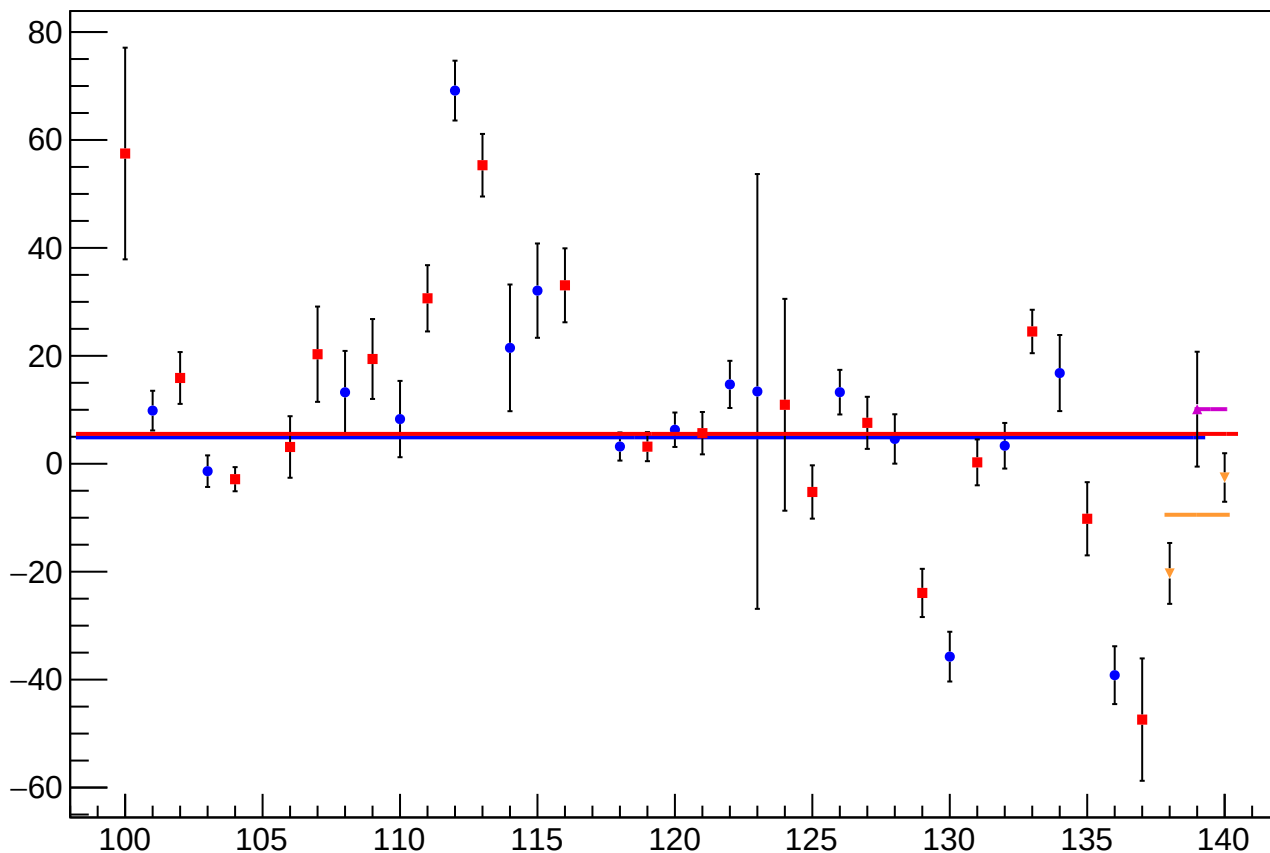
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -320.579+/-5.916  $\chi^2/\text{NDF}$ :0.0/0

Out: -248.121+/-3.949  $\chi^2/\text{NDF}$ :14.7/1

All: -270.454+/-3.285  $\chi^2/\text{NDF}$ : 118.5/2

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.896 \pm 1.089$   $\chi^2/\text{NDF}$ : 312.0/16

Left Out:  $-9.452 \pm 3.517$   $\chi^2/\text{NDF}$ : 6.1/1

Right Out:  $5.534 \pm 1.071$   $\chi^2/\text{NDF}$ : 239.1/18

Left In:  $10.116 \pm 10.644$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-7.527 \pm 3.339$   $\chi^2/\text{NDF}$ : 9.1/2

Right:  $5.220 \pm 0.764$   $\chi^2/\text{NDF}$ : 551.3/35

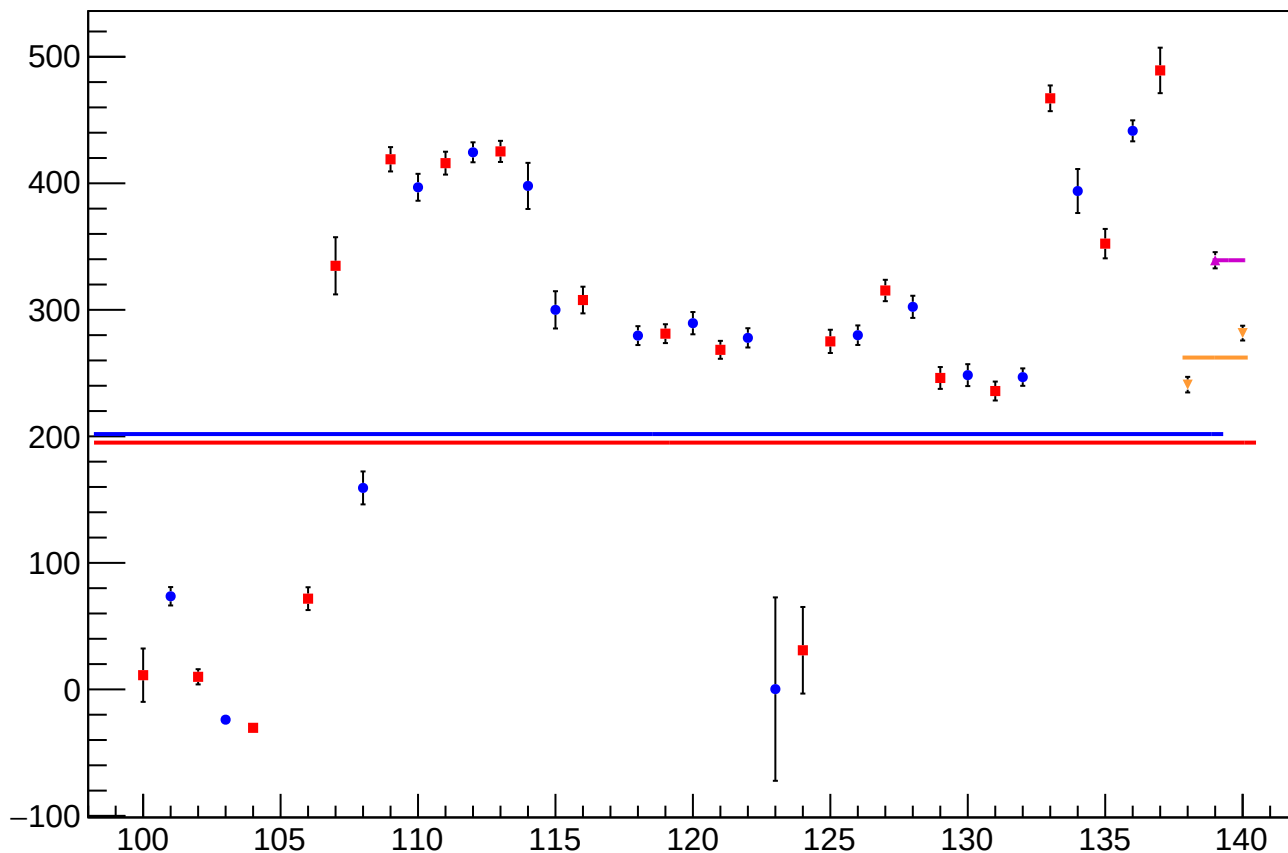
In:  $4.950 \pm 1.083$   $\chi^2/\text{NDF}$ : 312.2/17

Out:  $4.261 \pm 1.025$   $\chi^2/\text{NDF}$ : 261.8/20

All:  $4.587 \pm 0.744$   $\chi^2/\text{NDF}$ : 574.2/38



reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 201.807 $\pm$ 1.970  $\chi^2$ /NDF: 6754.2/16

Left Out: 262.286 $\pm$ 4.241  $\chi^2$ /NDF:23.0/1

Right Out: 195.053 $\pm$ 1.924  $\chi^2$ /NDF: 8257.1/18

Left In: 339.193 $\pm$ 6.408  $\chi^2$ /NDF:0.0/0

Left: 285.715 $\pm$ 3.537  $\chi^2$ /NDF: 123.2/2

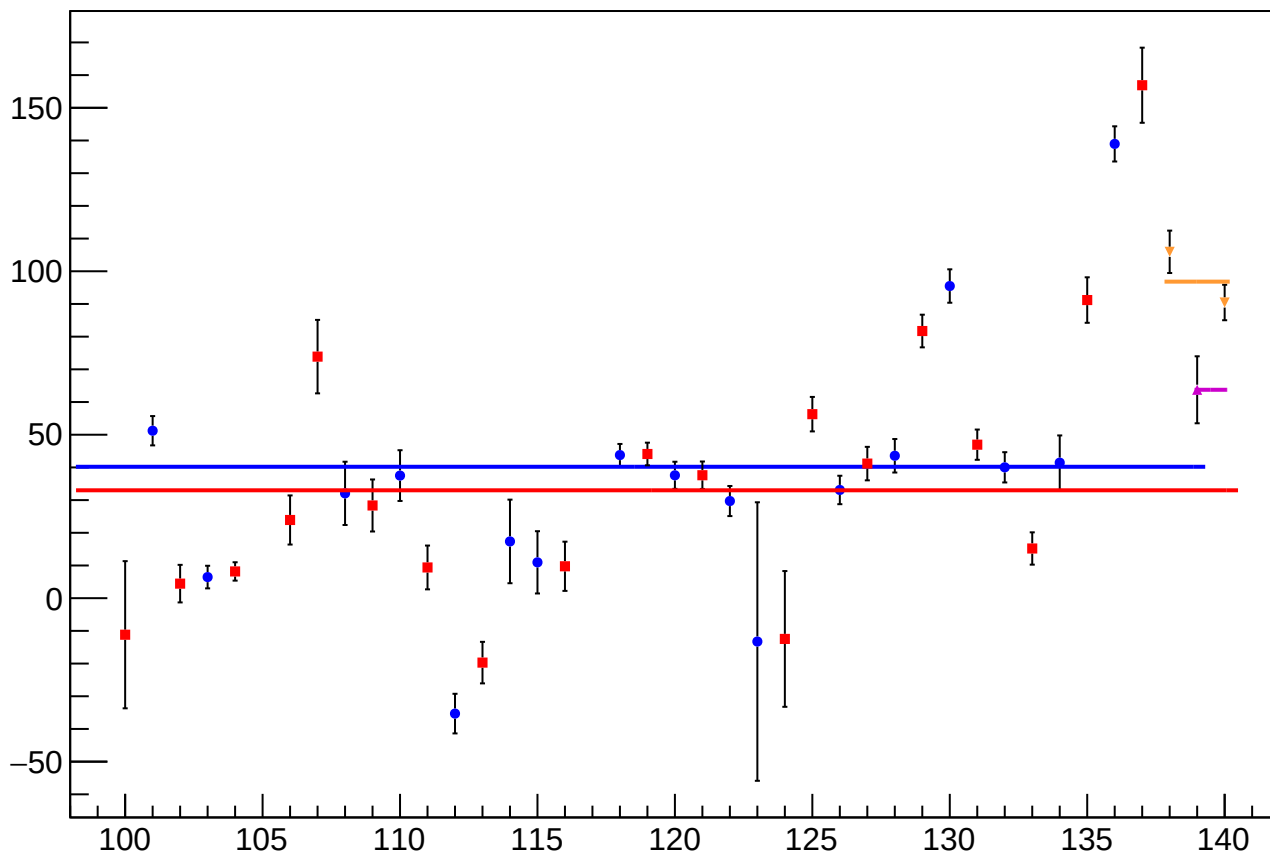
Right: 198.351 $\pm$ 1.377  $\chi^2$ /NDF: 15017.4/35

In: 213.676 $\pm$ 1.883  $\chi^2$ /NDF:7174.2/17

Out: 206.532 $\pm$ 1.752  $\chi^2$ /NDF:8488.5/20

All: 209.847 $\pm$ 1.283  $\chi^2$ /NDF: 15670.4/38

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 40.196 $\pm$ 1.268  $\chi^2$ /NDF: 735.0/16

Left Out: 96.828 $\pm$ 4.160  $\chi^2$ /NDF: 3.4/1

Right Out: 32.999 $\pm$ 1.253  $\chi^2$ /NDF: 554.1/18

Left In: 63.747 $\pm$ 10.245  $\chi^2$ /NDF: 0.0/0

Left: 92.145 $\pm$ 3.855  $\chi^2$ /NDF: 12.3/2

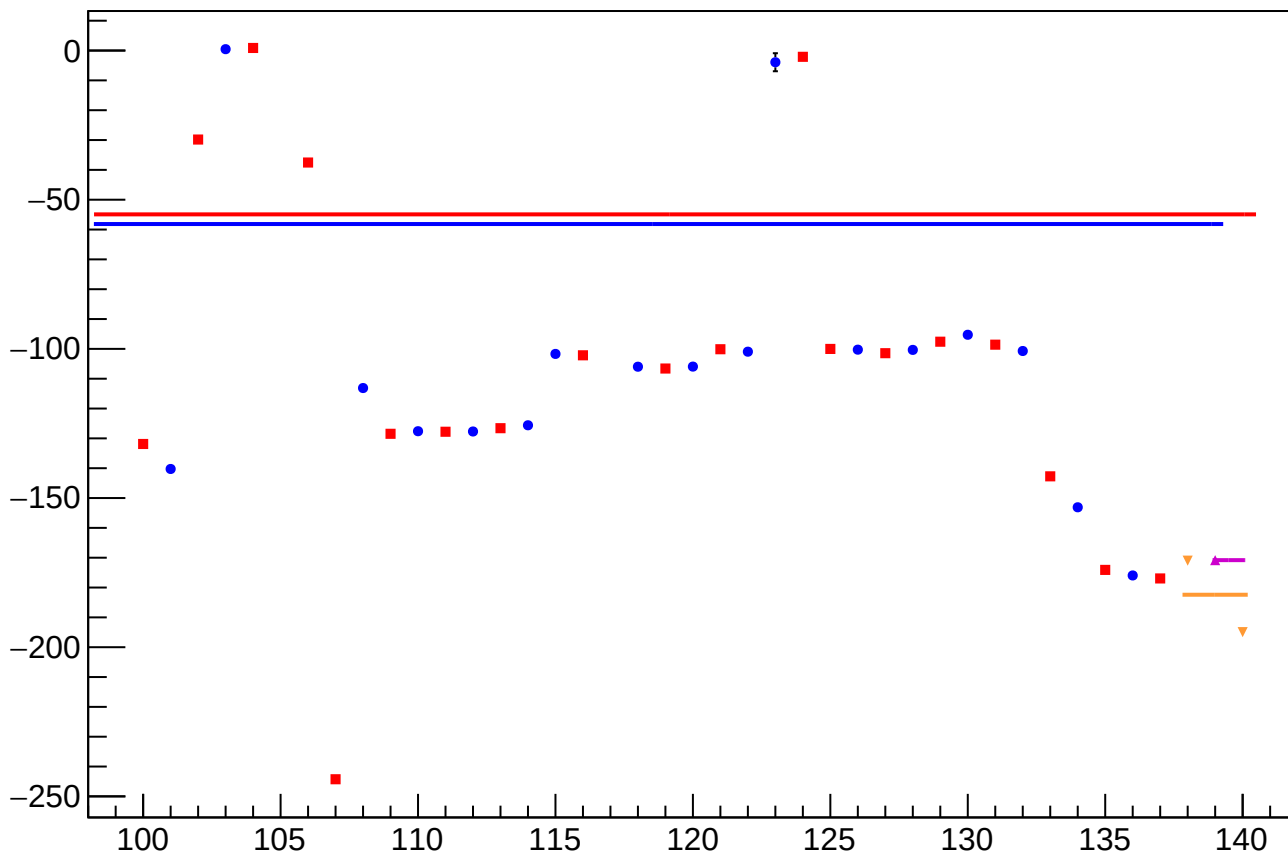
Right: 36.555 $\pm$ 0.891  $\chi^2$ /NDF: 1305.3/35

In: 40.551 $\pm$ 1.258  $\chi^2$ /NDF: 740.2/17

Out: 38.304 $\pm$ 1.199  $\chi^2$ /NDF: 773.3/20

All: 39.374 $\pm$ 0.868  $\chi^2$ /NDF: 1515.1/38

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -58.155+/-0.062  $\chi^2/\text{NDF}$ : 1105509.3/16

Left Out: -182.414+/-0.177  $\chi^2/\text{NDF}$ : 4592.5/1

Right Out: -54.914+/-0.060  $\chi^2/\text{NDF}$ : 1003885.5/18

Left In: -170.817+/-0.225  $\chi^2/\text{NDF}$ : 0.0/0

Left: -178.001+/-0.139  $\chi^2/\text{NDF}$ : 6233.4/2

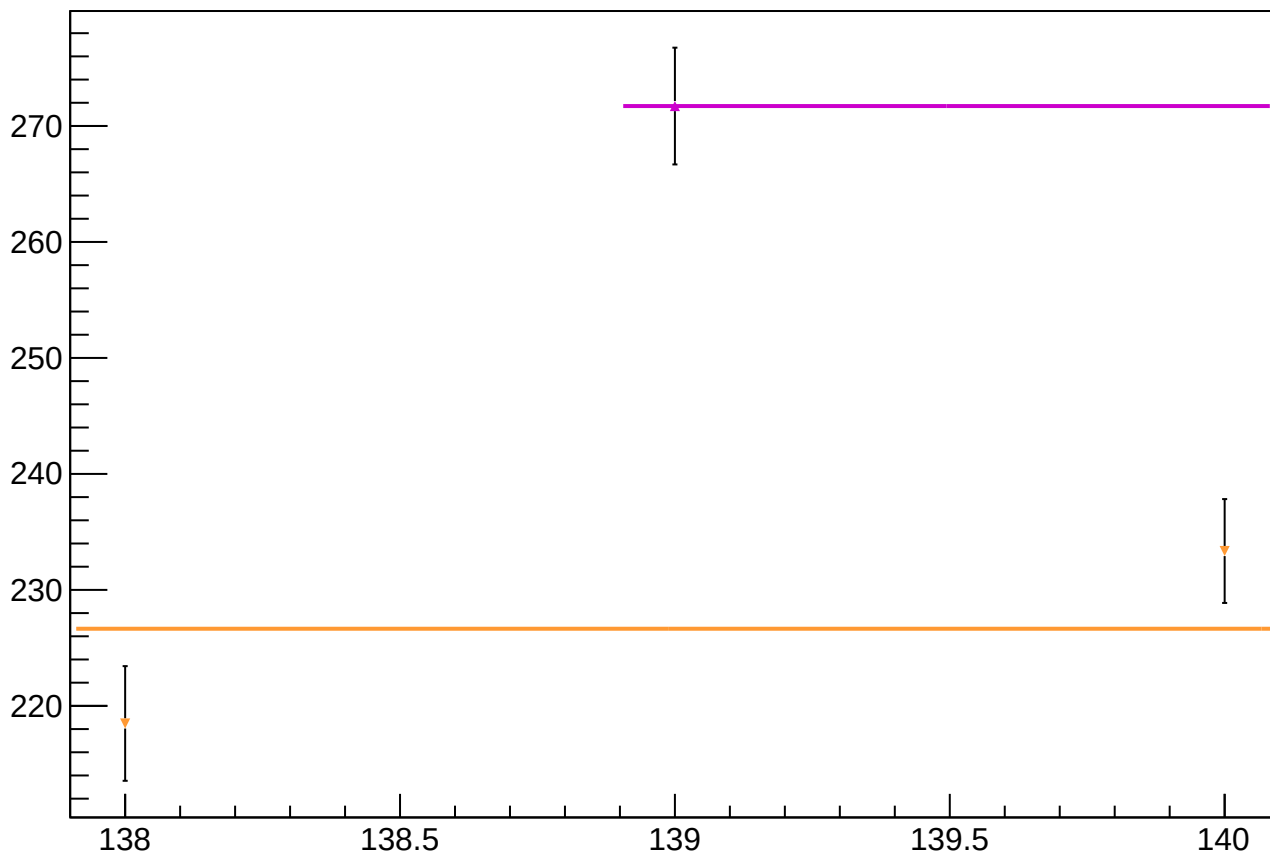
Right: -56.499+/-0.043  $\chi^2/\text{NDF}$ : 2110811.0/35

In: -65.984+/-0.059  $\chi^2/\text{NDF}$ : 1338142.5/17

Out: -68.195+/-0.057  $\chi^2/\text{NDF}$ : 1475408.5/20

All: -67.135+/-0.041  $\chi^2/\text{NDF}$ : 2814272.7/38

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: 226.651+/-3.319  $\chi^2/\text{NDF}$ : 5.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 271.718+/-5.034  $\chi^2/\text{NDF}$ : 0.0/0

Left: 240.305+/-2.771  $\chi^2/\text{NDF}$ : 60.8/2

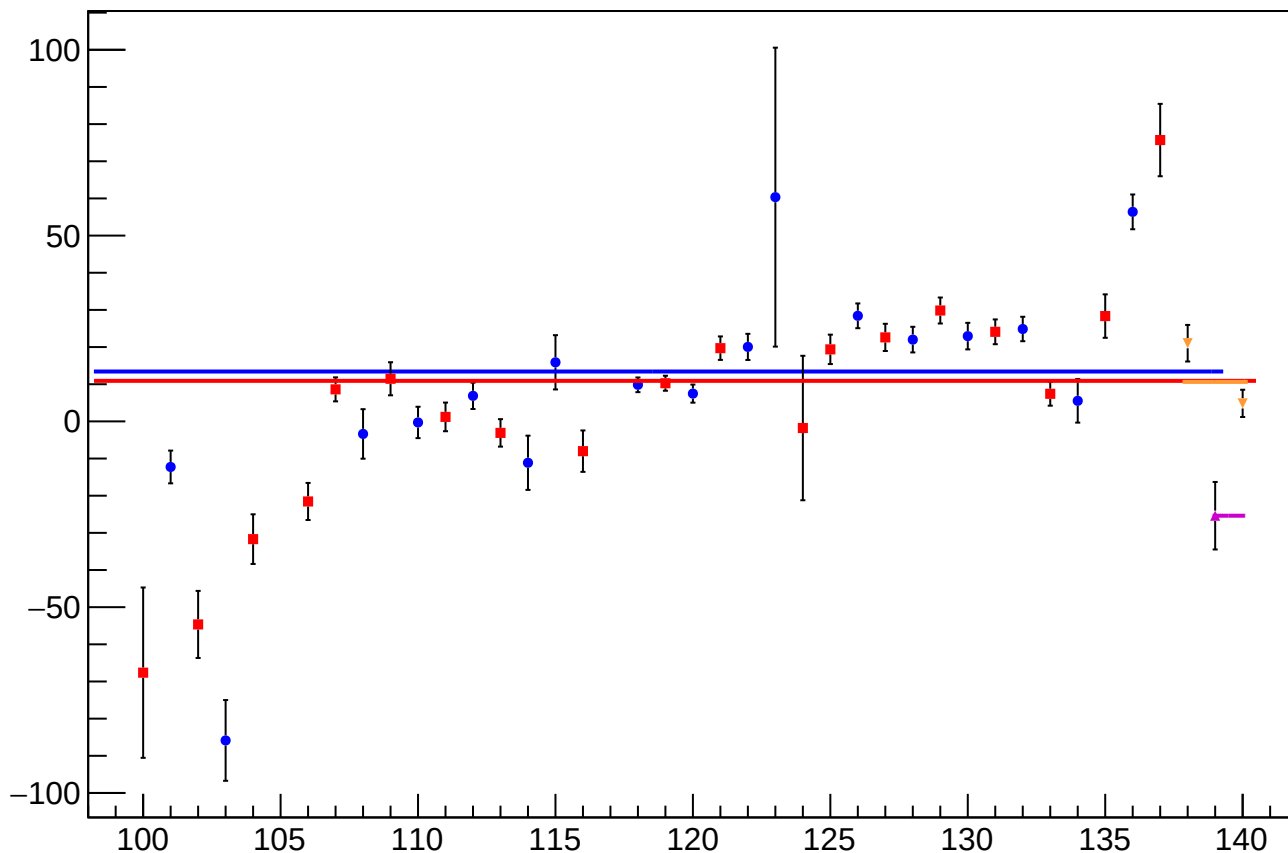
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 271.718+/-5.034  $\chi^2/\text{NDF}$ : 0.0/0

Out: 226.651+/-3.319  $\chi^2/\text{NDF}$ : 5.0/1

All: 240.305+/-2.771  $\chi^2/\text{NDF}$ : 60.8/2

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 13.423+/-0.920  $\chi^2/\text{NDF}$ : 295.2/16

Left Out: 10.625+/-2.941  $\chi^2/\text{NDF}$ : 7.0/1

Right Out: 10.908+/-0.916  $\chi^2/\text{NDF}$ : 302.6/18

Left In: -25.386+/-9.084  $\chi^2/\text{NDF}$ : 0.0/0

Left: 7.208+/-2.798  $\chi^2/\text{NDF}$ : 21.2/2

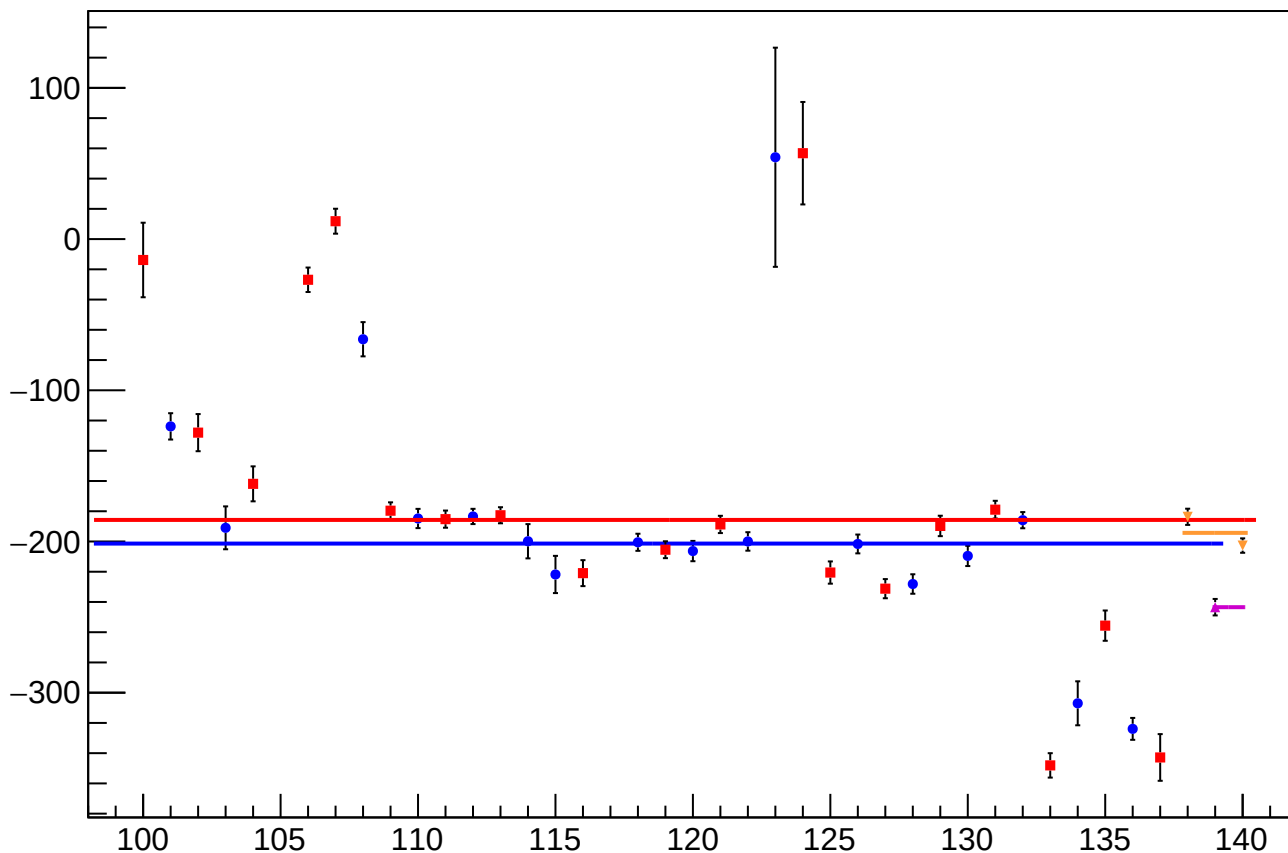
Right: 12.160+/-0.649  $\chi^2/\text{NDF}$ : 601.6/35

In: 13.029+/-0.915  $\chi^2/\text{NDF}$ : 313.3/17

Out: 10.883+/-0.875  $\chi^2/\text{NDF}$ : 309.6/20

All: 11.908+/-0.632  $\chi^2/\text{NDF}$ : 625.7/38

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:  $-194.295 \pm 3.562$   $\chi^2/\text{NDF}$ : 7.0/1

Right Out:  $-185.739 \pm 1.700$   $\chi^2/\text{NDF}$ : 1749.3/18

Left In:  $-243.446 \pm 5.449$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-209.013 \pm 2.982$   $\chi^2/\text{NDF}$ : 64.0/2

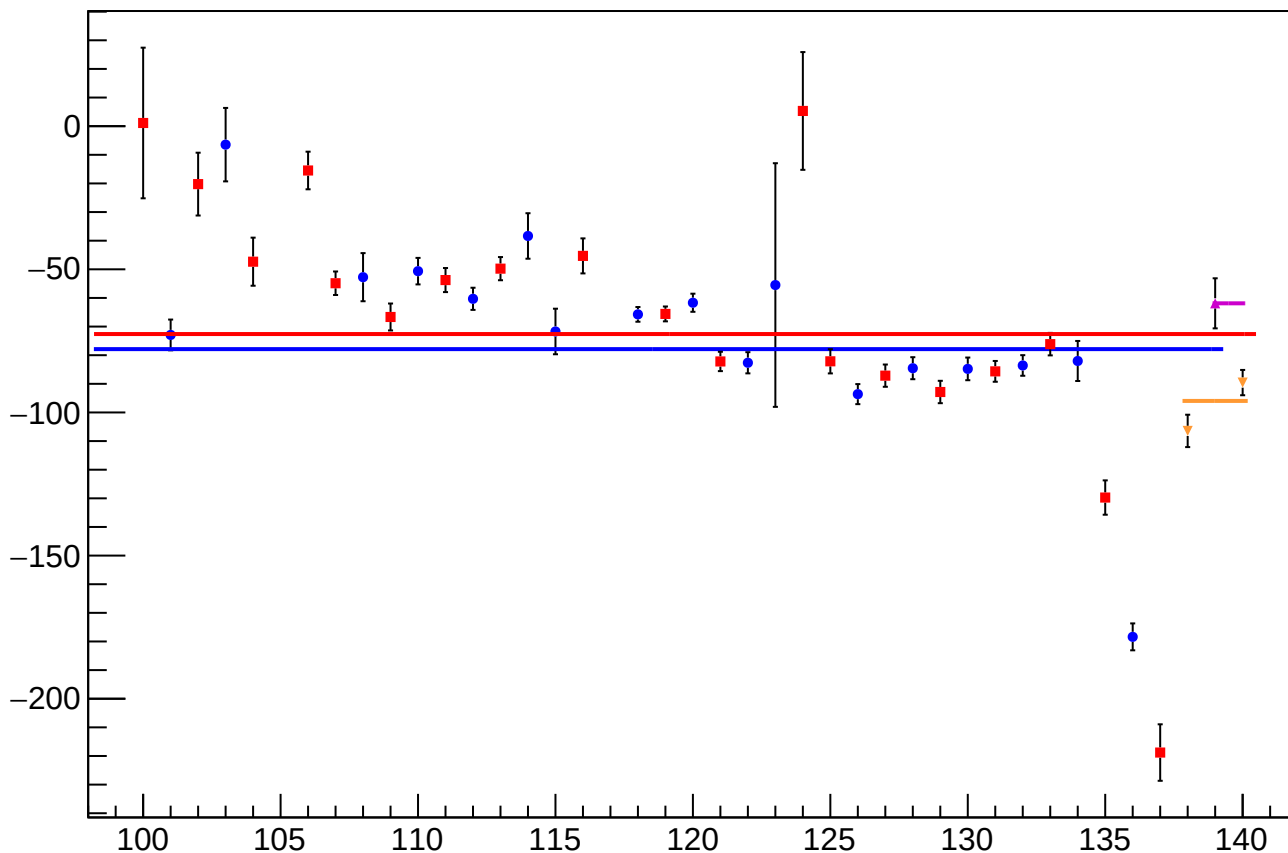
Right:  $-193.204 \pm 1.229$   $\chi^2/\text{NDF}$ : 2413.2/35

In:  $-205.437 \pm 1.692$   $\chi^2/\text{NDF}$ : 677.3/17

Out:  $-187.326 \pm 1.534$   $\chi^2/\text{NDF}$ : 1761.0/20

All:  $-195.501 \pm 1.136$   $\chi^2/\text{NDF}$ : 2501.3/38

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:  $-95.972 \pm 3.482$   $\chi^2/\text{NDF}$ : 5.5/1

Right Out:  $-72.612 \pm 1.054$   $\chi^2/\text{NDF}$ : 606.9/18

Left In:  $-61.881 \pm 8.746$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-91.307 \pm 3.235$   $\chi^2/\text{NDF}$ : 18.6/2

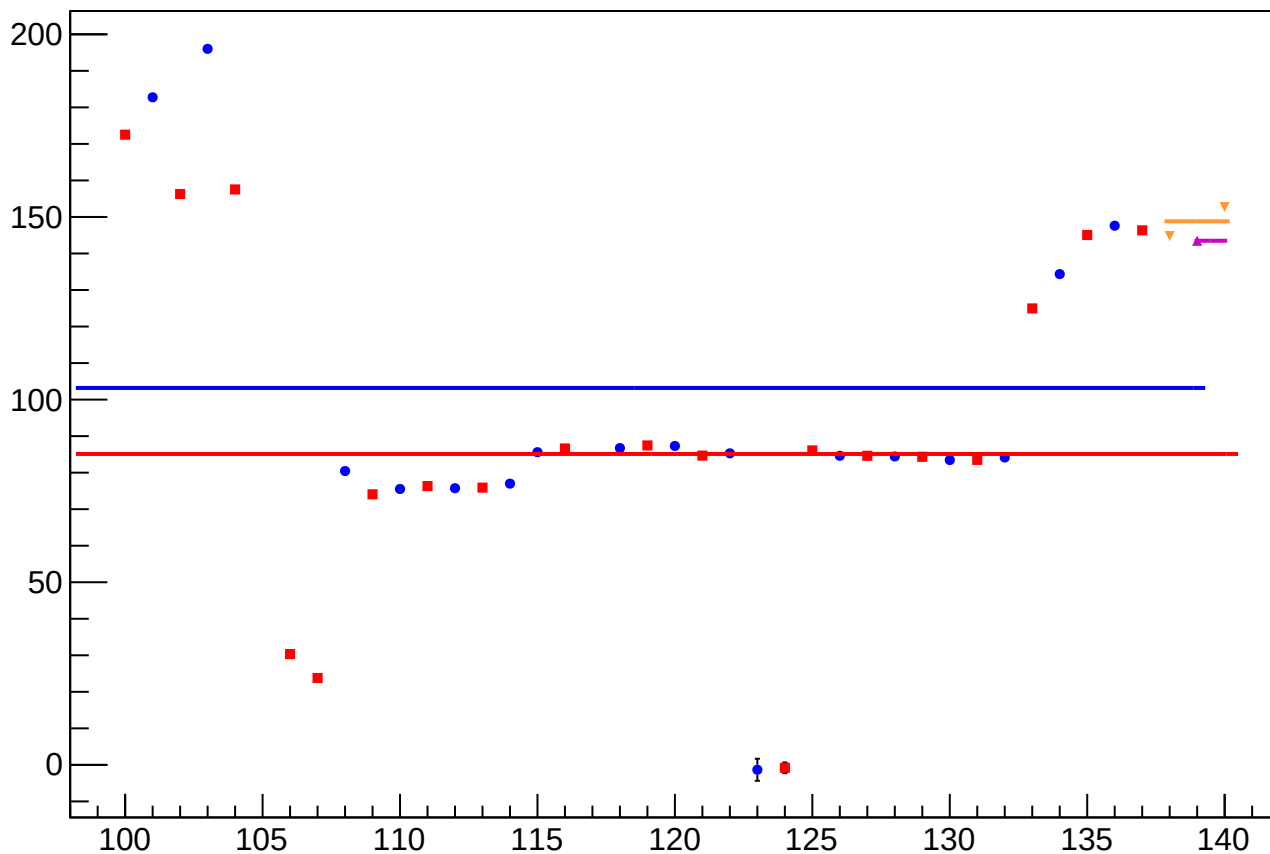
Right:  $-75.215 \pm 0.749$   $\chi^2/\text{NDF}$ : 1277.4/35

In:  $-77.643 \pm 1.058$   $\chi^2/\text{NDF}$ : 661.5/17

Out:  $-74.571 \pm 1.009$   $\chi^2/\text{NDF}$ : 653.6/20

All:  $-76.034 \pm 0.730$   $\chi^2/\text{NDF}$ : 1319.5/38

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: 148.809 $\pm$ 0.149  $\chi^2$ /NDF: 714.1/1

Right Out: 85.121 $\pm$ 0.064  $\chi^2$ /NDF: 423521.4/18

Left In: 143.488 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left: 146.819 $\pm$ 0.118  $\chi^2$ /NDF: 1193.2/2

Right: 93.266 $\pm$ 0.047  $\chi^2$ /NDF: 733347.5/35

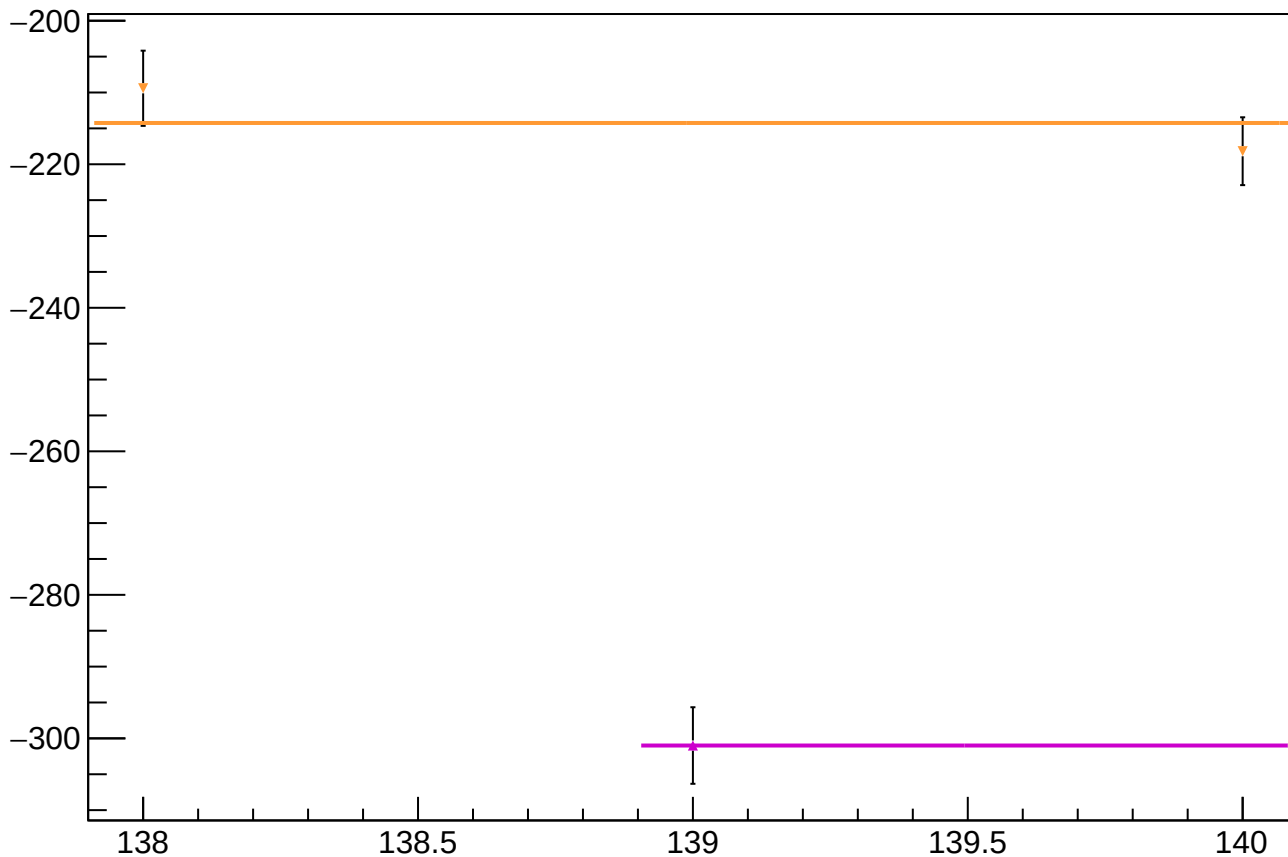
In: 107.943 $\pm$ 0.066  $\chi^2$ /NDF: 312324.8/17

Out: 95.008 $\pm$ 0.059  $\chi^2$ /NDF: 579299.2/20

All: 100.702 $\pm$ 0.044  $\chi^2$ /NDF: 913091.3/38



reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -214.247+/-3.509  $\chi^2/\text{NDF}$ : 1.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -300.996+/-5.334  $\chi^2/\text{NDF}$ : 0.0/0

Left: -240.453+/-2.932  $\chi^2/\text{NDF}$ : 186.2/2

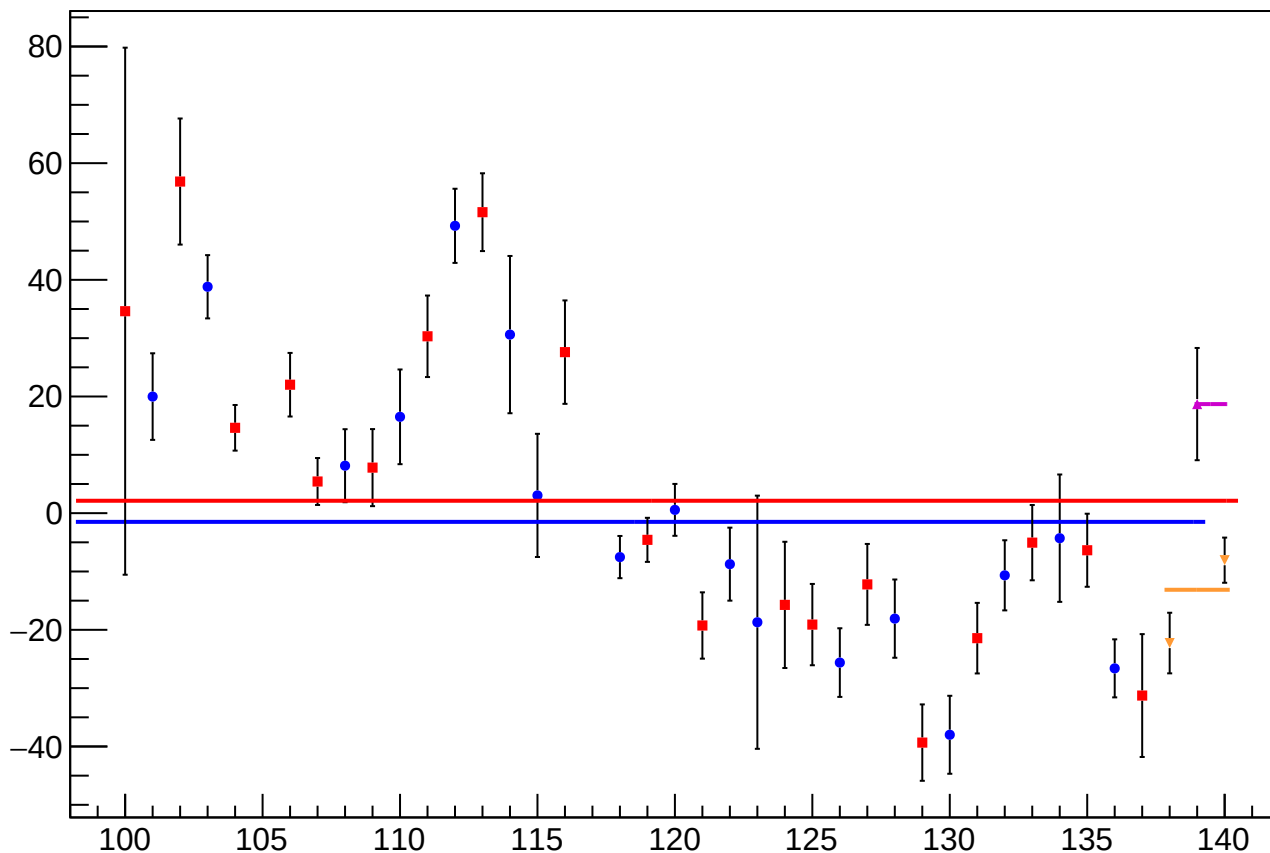
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -300.996+/-5.334  $\chi^2/\text{NDF}$ : 0.0/0

Out: -214.247+/-3.509  $\chi^2/\text{NDF}$ : 1.5/1

All: -240.453+/-2.932  $\chi^2/\text{NDF}$ : 186.2/2

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:  $-13.134 \pm 3.104$   $\chi^2/\text{NDF}$ : 4.8/1

Right Out:  $2.127 \pm 1.402$   $\chi^2/\text{NDF}$ : 232.6/18

Left In:  $18.698 \pm 9.622$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-10.133 \pm 2.954$   $\chi^2/\text{NDF}$ : 14.7/2

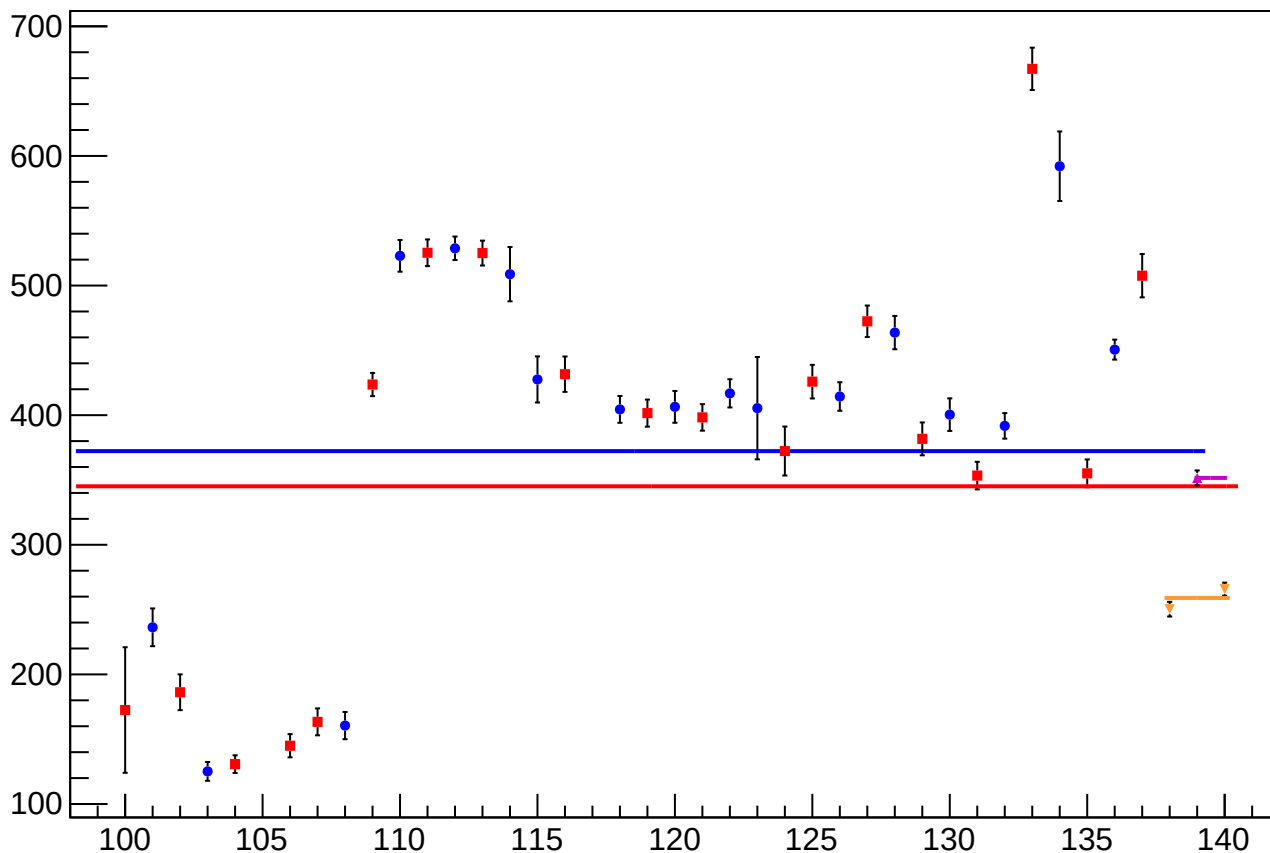
Right:  $0.455 \pm 1.029$   $\chi^2/\text{NDF}$ : 461.8/35

In:  $-1.005 \pm 1.495$   $\chi^2/\text{NDF}$ : 230.4/17

Out:  $-0.460 \pm 1.278$   $\chi^2/\text{NDF}$ : 257.5/20

All:  $-0.690 \pm 0.971$   $\chi^2/\text{NDF}$ : 488.0/38

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: 258.973+/-3.766  $\chi^2/\text{NDF}$ : 4.1/1

Right Out: 345.135+/-2.562  $\chi^2/\text{NDF}$ : 3416.5/18

Left In: 351.585+/-5.774  $\chi^2/\text{NDF}$ : 0.0/0

Left: 286.612+/-3.154  $\chi^2/\text{NDF}$ : 184.6/2

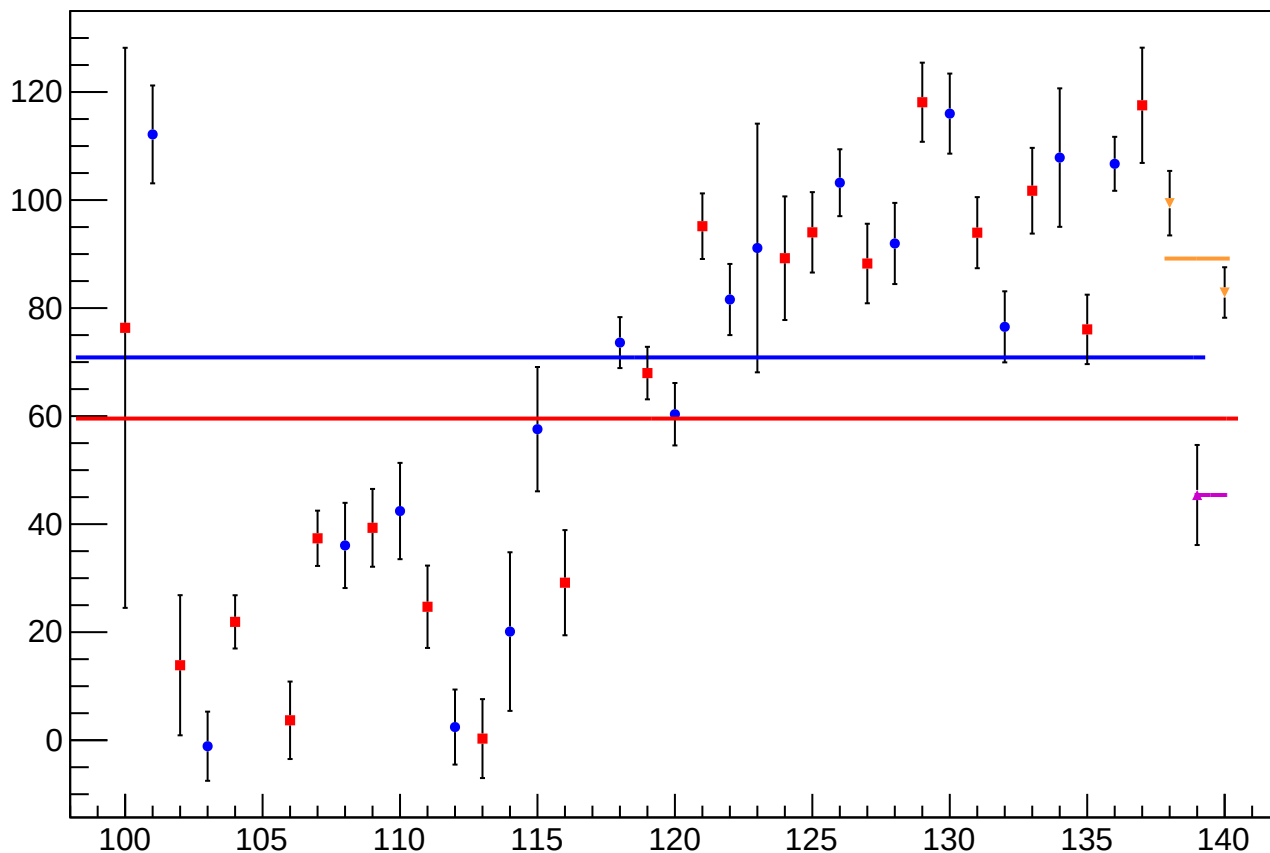
Right: 357.695+/-1.878  $\chi^2/\text{NDF}$ : 5901.5/35

In: 368.418+/-2.490  $\chi^2/\text{NDF}$ : 2443.6/17

Out: 317.874+/-2.118  $\chi^2/\text{NDF}$ : 3778.4/20

All: 339.099+/-1.613  $\chi^2/\text{NDF}$ : 6461.1/38

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: 89.167 $\pm$ 3.681  $\chi^2$ /NDF:4.8/1

Right Out: 59.546 $\pm$ 1.633  $\chi^2$ /NDF: 490.9/18

Left In: 45.396 $\pm$ 9.263  $\chi^2$ /NDF:0.0/0

Left: 83.197 $\pm$ 3.421  $\chi^2$ /NDF: 24.0/2

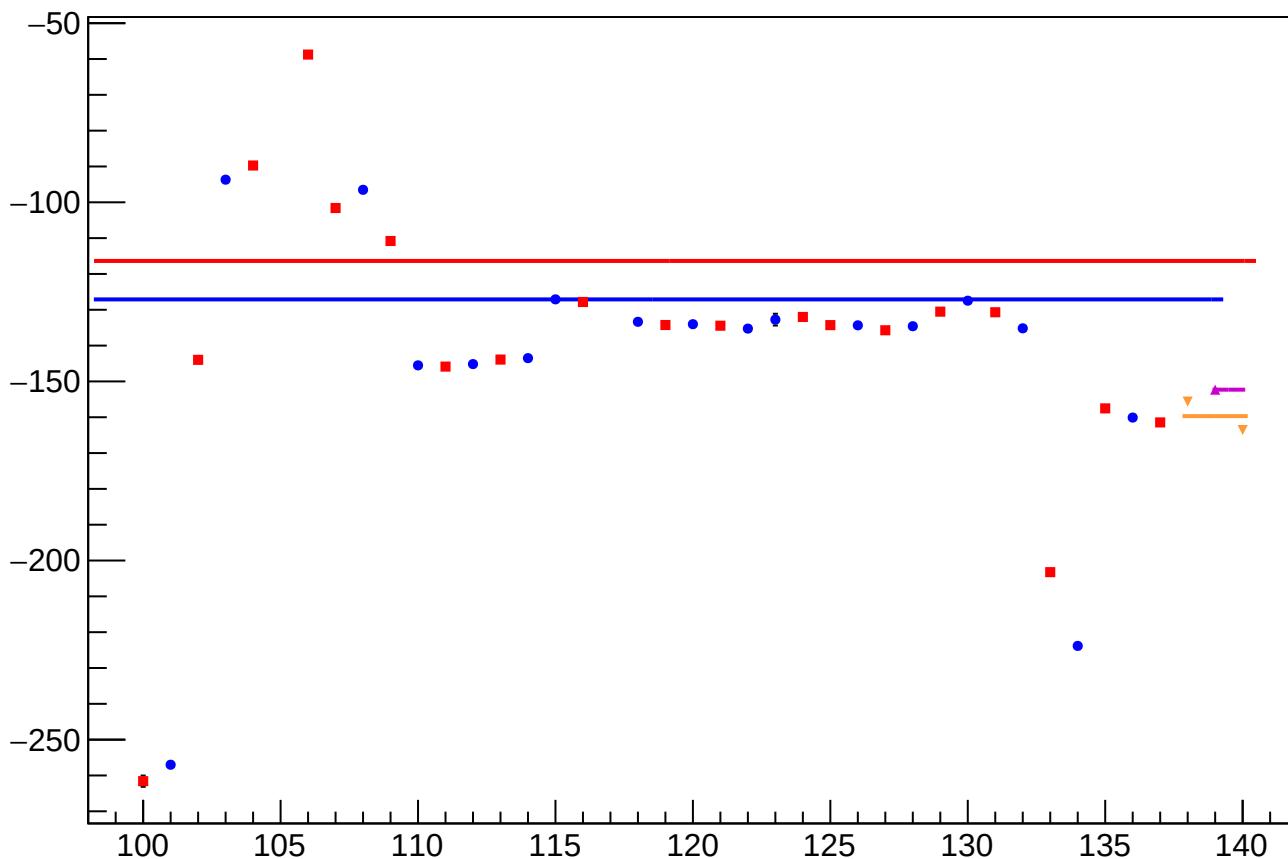
Right: 64.838 $\pm$ 1.192  $\chi^2$ /NDF: 940.3/35

In: 69.996 $\pm$ 1.713  $\chi^2$ /NDF:434.3/17

Out: 64.417 $\pm$ 1.493  $\chi^2$ /NDF:549.7/20

All: 66.825 $\pm$ 1.125  $\chi^2$ /NDF: 990.0/38

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: -159.696+/-0.158  $\chi^2/\text{NDF}$ : 635.0/1

Right Out: -116.369+/-0.083  $\chi^2/\text{NDF}$ : 167595.6/18

Left In: -152.302+/-0.204  $\chi^2/\text{NDF}$ : 0.0/0

Left: -156.927+/-0.125  $\chi^2/\text{NDF}$ : 1459.7/2

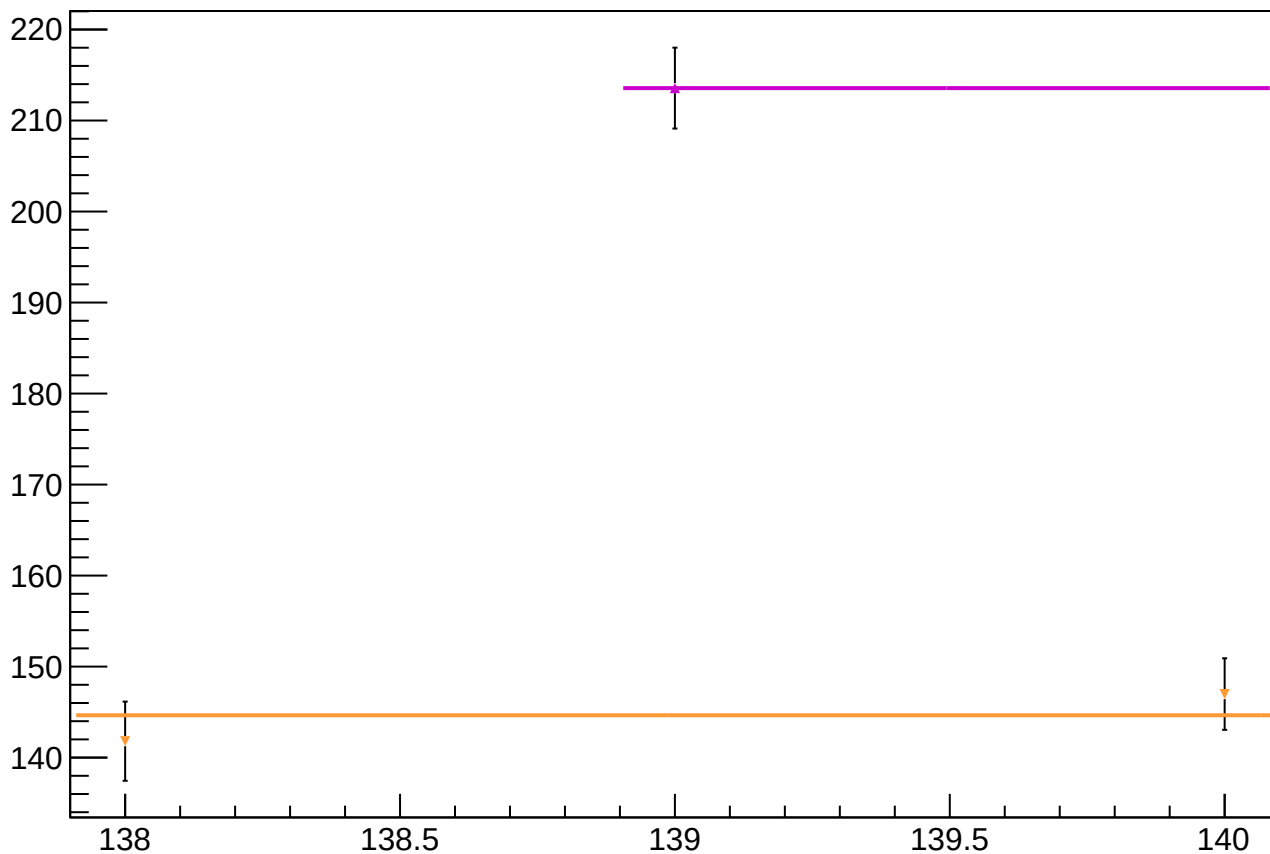
Right: -121.332+/-0.061  $\chi^2/\text{NDF}$ : 342408.2/35

In: -131.179+/-0.082  $\chi^2/\text{NDF}$ : 179899.2/17

Out: -125.767+/-0.073  $\chi^2/\text{NDF}$ : 227447.9/20

All: -128.177+/-0.055  $\chi^2/\text{NDF}$ : 409769.4/38

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 144.655 $\pm$ 2.917  $\chi^2/\text{NDF}$ : 0.8/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 213.562 $\pm$ 4.443  $\chi^2/\text{NDF}$ : 0.0/0

Left: 165.407 $\pm$ 2.438  $\chi^2/\text{NDF}$ : 168.9/2

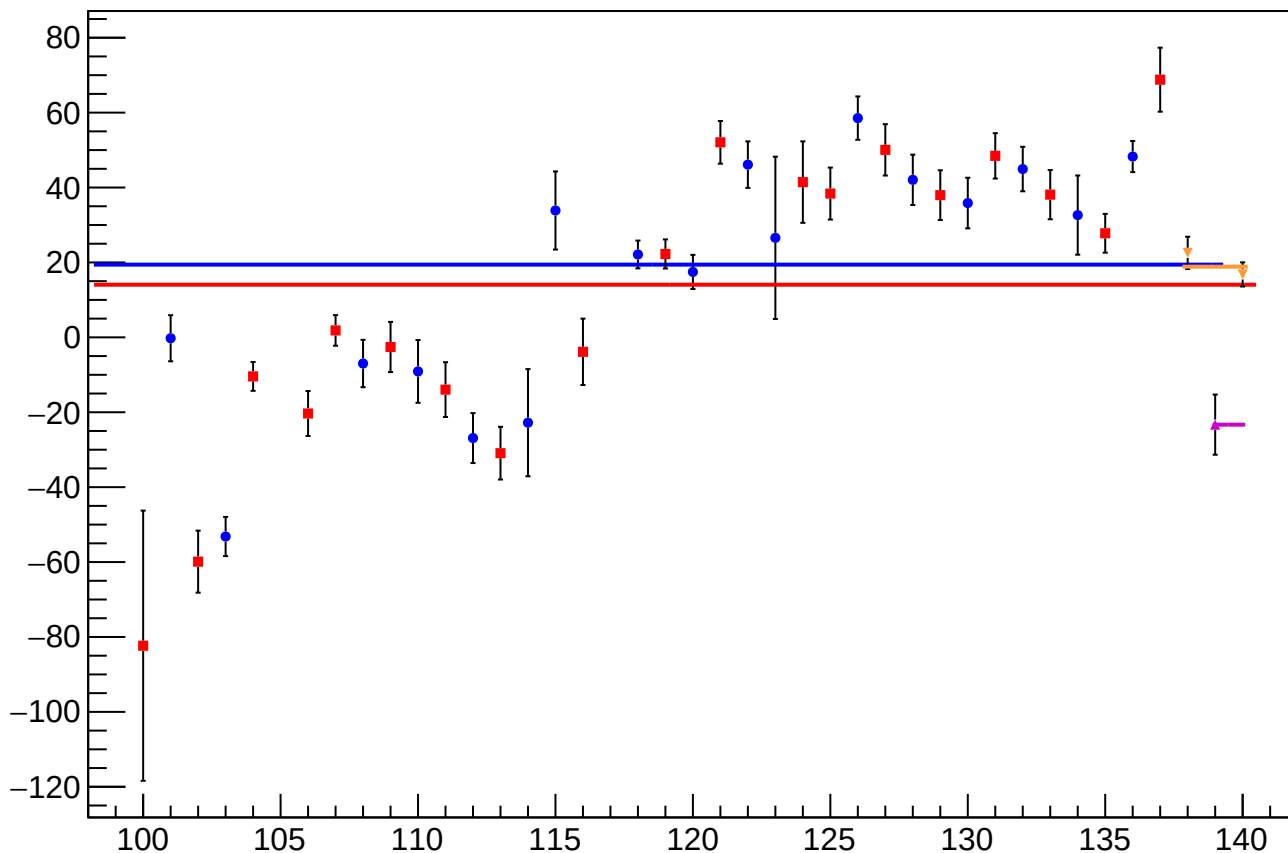
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 213.562 $\pm$ 4.443  $\chi^2/\text{NDF}$ : 0.0/0

Out: 144.655 $\pm$ 2.917  $\chi^2/\text{NDF}$ : 0.8/1

All: 165.407 $\pm$ 2.438  $\chi^2/\text{NDF}$ : 168.9/2

reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 19.416 +/- 1.480  $\chi^2/\text{NDF}$ : 441.1/16

Left Out: 18.867 +/- 2.580  $\chi^2/\text{NDF}$ : 1.1/1

Right Out: 14.055 +/- 1.392  $\chi^2/\text{NDF}$ : 436.5/18

Left In: -23.313 +/- 8.033  $\chi^2/\text{NDF}$ : 0.0/0

Left: 14.922 +/- 2.457  $\chi^2/\text{NDF}$ : 26.1/2

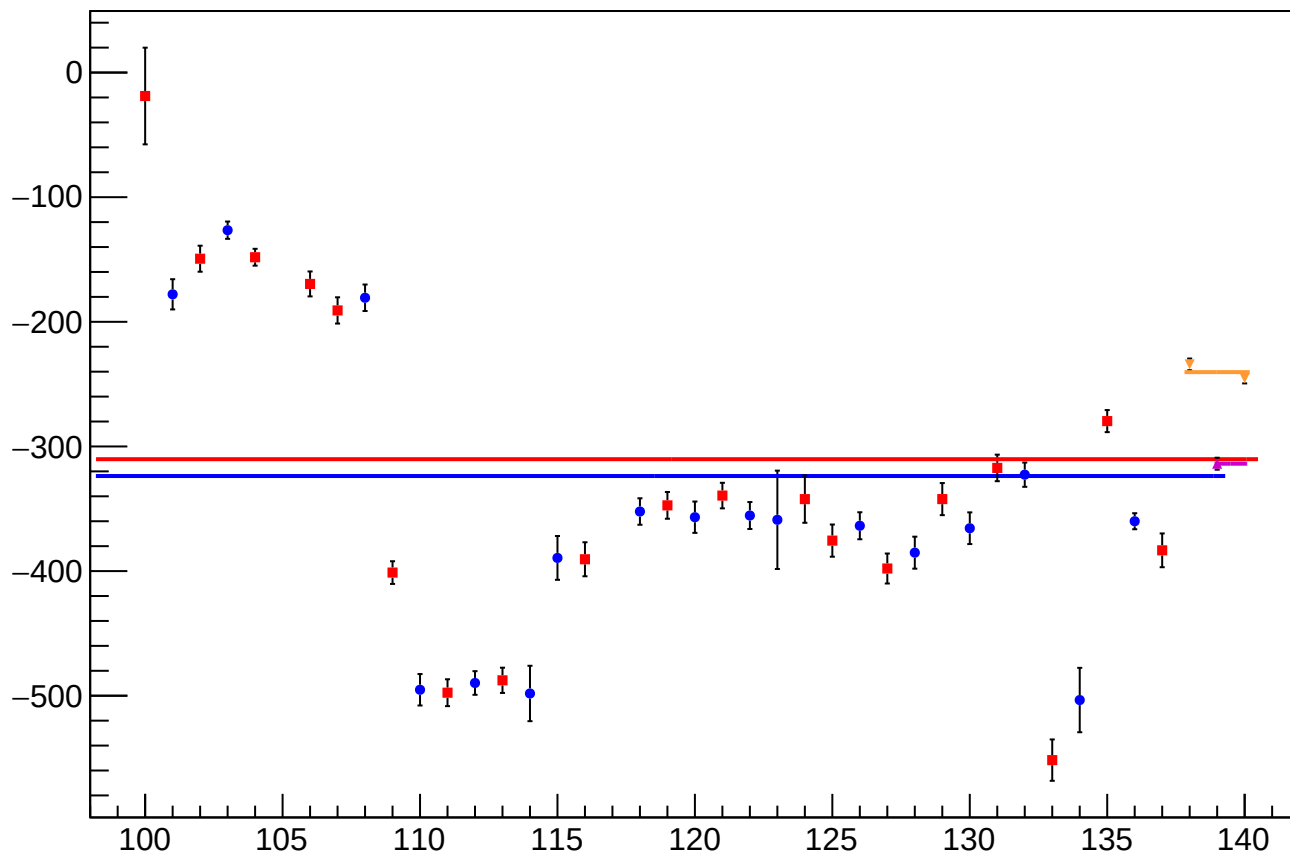
Right: 16.572 +/- 1.014  $\chi^2/\text{NDF}$ : 884.6/35

In: 18.014 +/- 1.455  $\chi^2/\text{NDF}$ : 468.4/17

Out: 15.140 +/- 1.225  $\chi^2/\text{NDF}$ : 440.4/20

All: 16.332 +/- 0.937  $\chi^2/\text{NDF}$ : 911.1/38

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: -240.365+/-3.131  $\chi^2/\text{NDF}$ : 3.1/1

Right Out: -310.223+/-2.523  $\chi^2/\text{NDF}$ : 2300.0/18

Left In: -313.839+/-4.808  $\chi^2/\text{NDF}$ : 0.0/0

Left: -262.238+/-2.624  $\chi^2/\text{NDF}$ : 167.1/2

Right: -316.595+/-1.833  $\chi^2/\text{NDF}$ : 4164.2/35

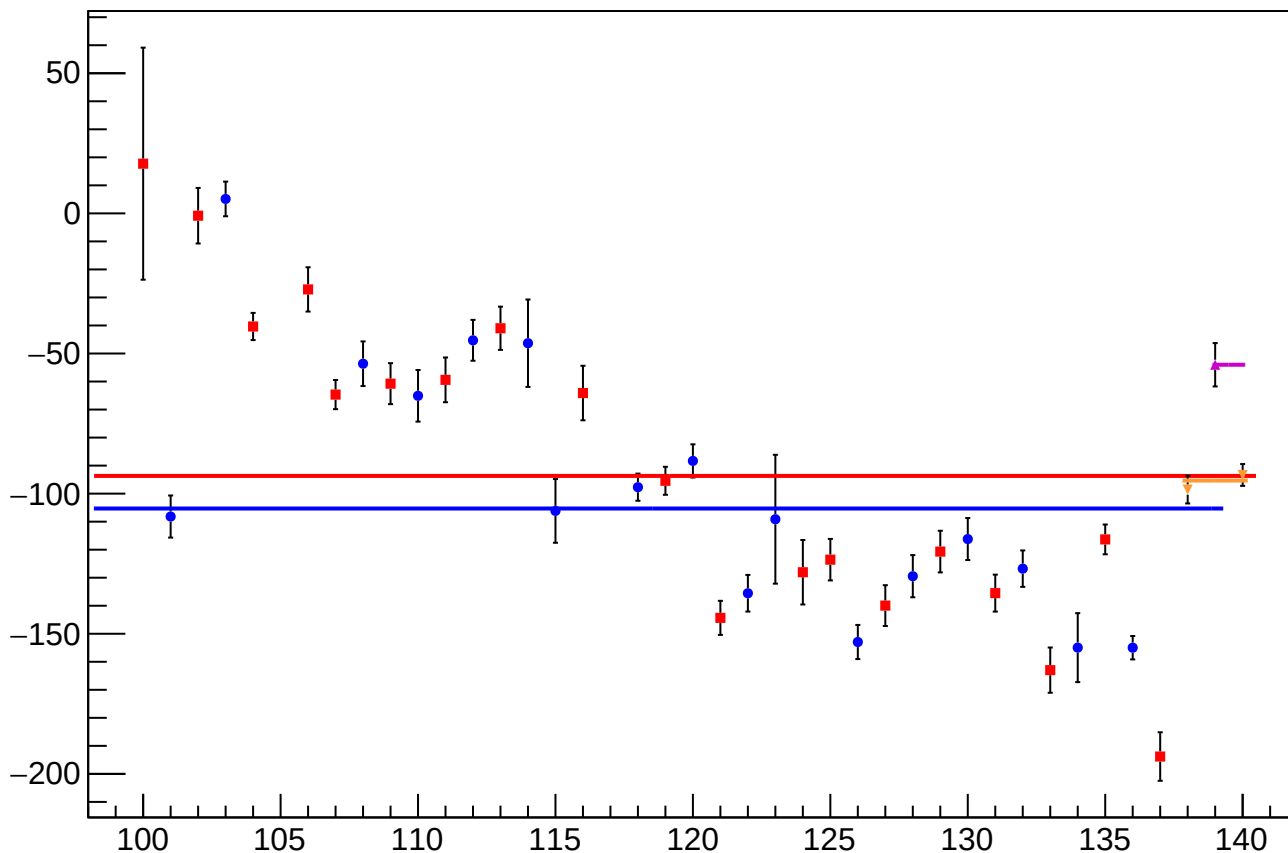
In: -321.395+/-2.333  $\chi^2/\text{NDF}$ : 1854.0/17

Out: -282.718+/-1.964  $\chi^2/\text{NDF}$ : 2604.9/20

All: -298.763+/-1.503  $\chi^2/\text{NDF}$ : 4619.8/38



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:  $-95.333 \pm 3.059$   $\chi^2/\text{NDF}$ : 0.7/1

Right Out:  $-93.680 \pm 1.612$   $\chi^2/\text{NDF}$ : 826.5/18

Left In:  $-54.015 \pm 7.735$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-89.744 \pm 2.845$   $\chi^2/\text{NDF}$ : 25.4/2

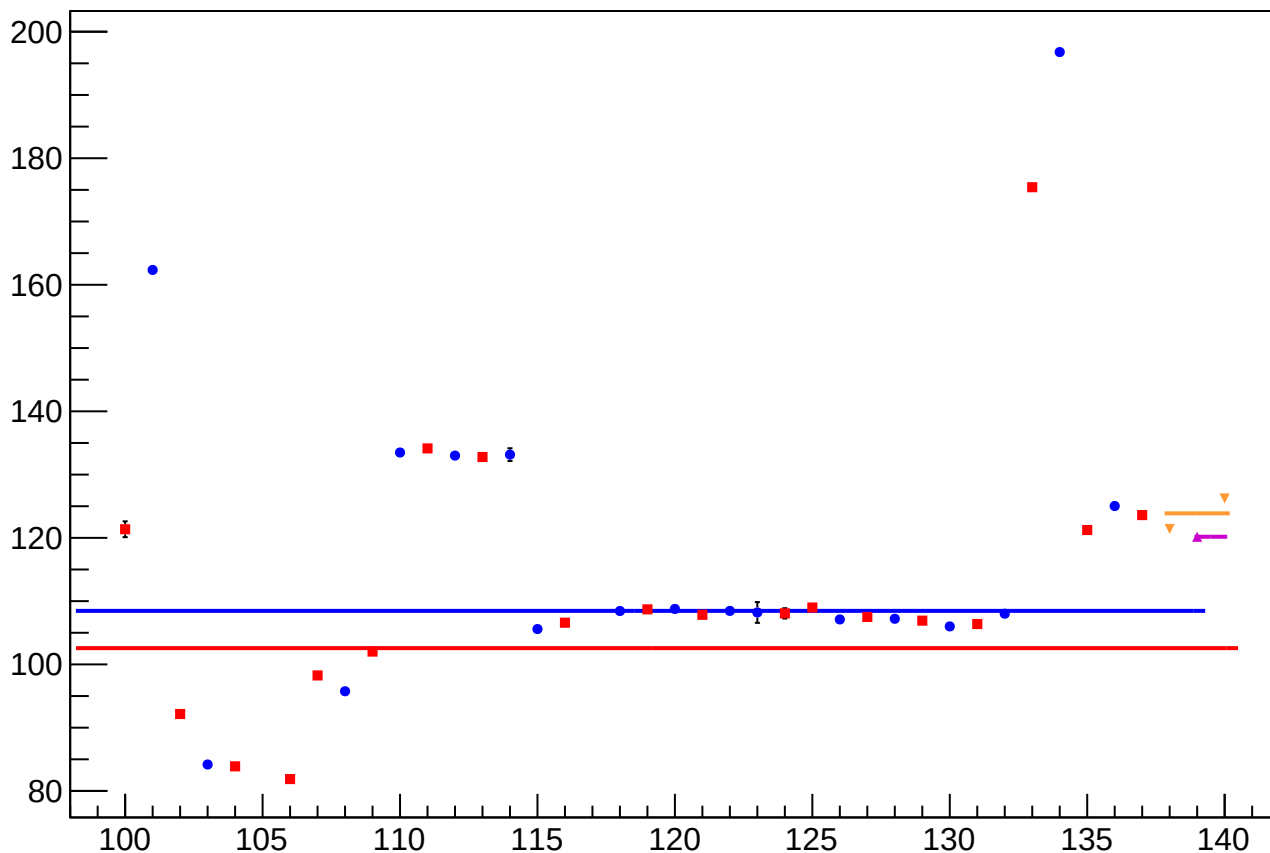
Right:  $-99.207 \pm 1.167$   $\chi^2/\text{NDF}$ : 1588.8/35

In:  $-102.963 \pm 1.654$   $\chi^2/\text{NDF}$ : 779.5/17

Out:  $-94.039 \pm 1.426$   $\chi^2/\text{NDF}$ : 827.4/20

All:  $-97.843 \pm 1.080$   $\chi^2/\text{NDF}$ : 1623.6/38

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 108.461+/-0.085  $\chi^2/\text{NDF}$ : 73302.1/16

Left Out: 123.873+/-0.131  $\chi^2/\text{NDF}$ : 339.9/1

Right Out: 102.570+/-0.079  $\chi^2/\text{NDF}$ : 53143.8/18

Left In: 120.176+/-0.170  $\chi^2/\text{NDF}$ : 0.0/0

Left: 122.497+/-0.104  $\chi^2/\text{NDF}$ : 636.8/2

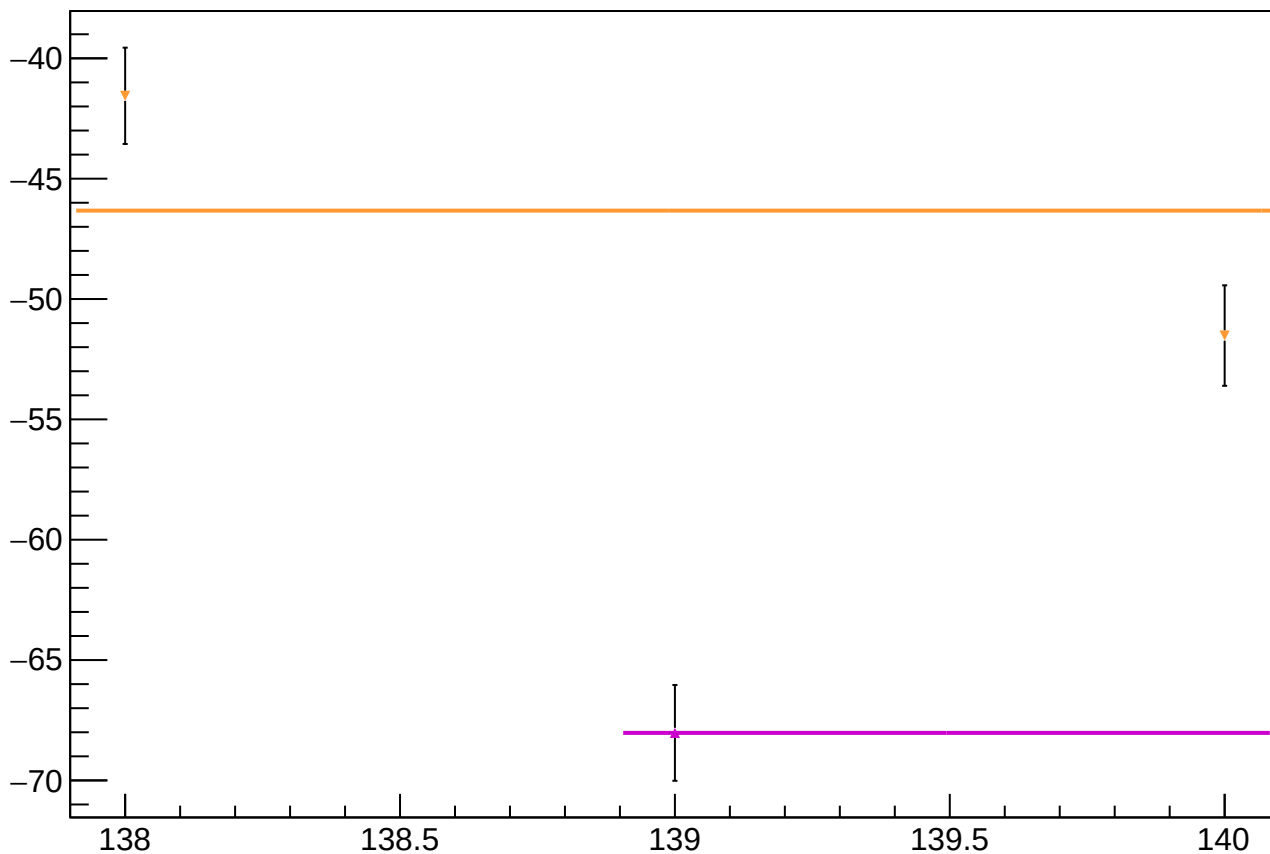
Right: 105.327+/-0.058  $\chi^2/\text{NDF}$ : 129018.0/35

In: 110.791+/-0.076  $\chi^2/\text{NDF}$ : 77105.8/17

Out: 108.305+/-0.068  $\chi^2/\text{NDF}$ : 72832.6/20

All: 109.412+/-0.051  $\chi^2/\text{NDF}$ : 150534.9/38

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-46.327 \pm 1.444$   $\chi^2/\text{NDF}: 11.9/1$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-68.026 \pm 1.991$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-53.811 \pm 1.169$   $\chi^2/\text{NDF}: 89.7/2$

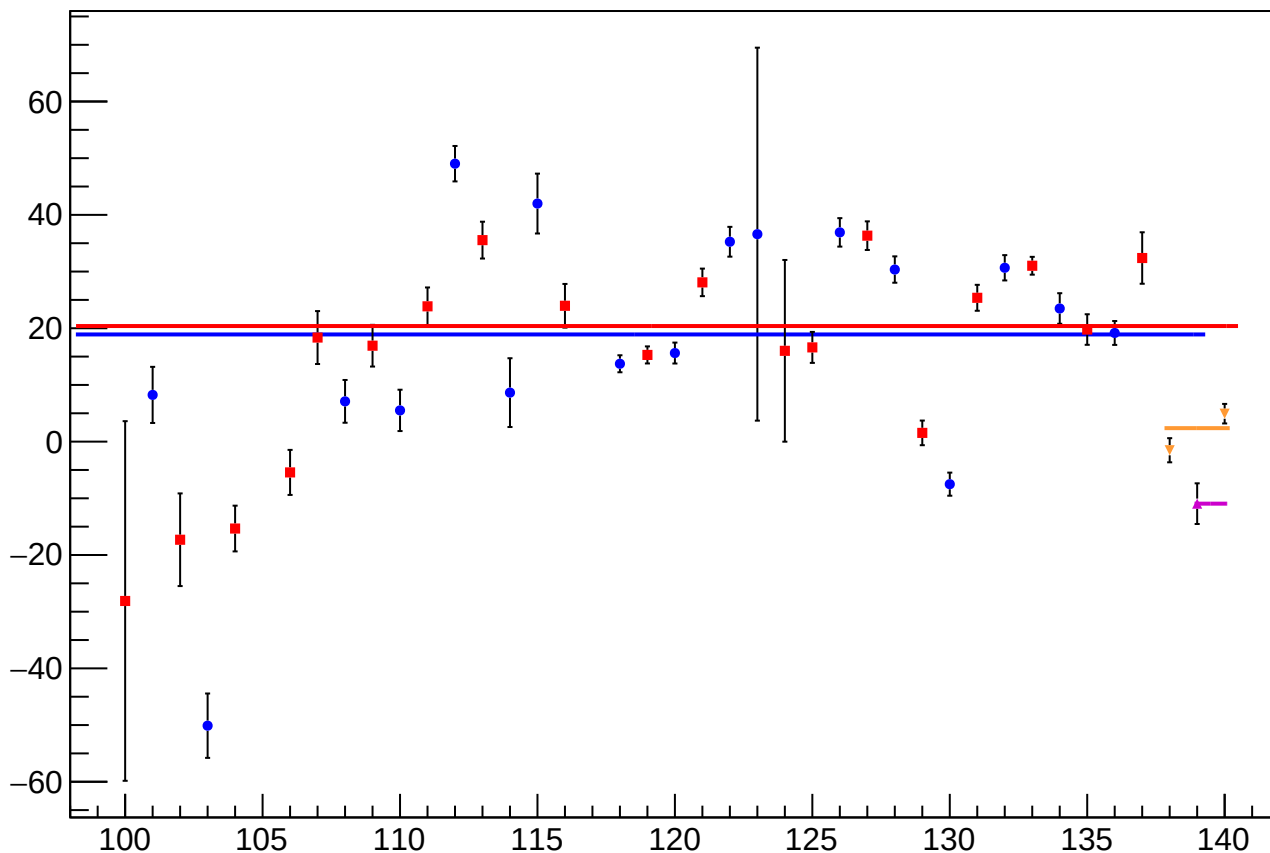
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-68.026 \pm 1.991$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $-46.327 \pm 1.444$   $\chi^2/\text{NDF}: 11.9/1$

All:  $-53.811 \pm 1.169$   $\chi^2/\text{NDF}: 89.7/2$

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.906+/-0.644  $\chi^2/\text{NDF}$ : 618.9/16

Left Out: 2.377+/-1.340  $\chi^2/\text{NDF}$ : 5.5/1

Right Out: 20.390+/-0.644  $\chi^2/\text{NDF}$ : 365.3/18

Left In: -10.944+/-3.588  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.747+/-1.255  $\chi^2/\text{NDF}$ : 17.6/2

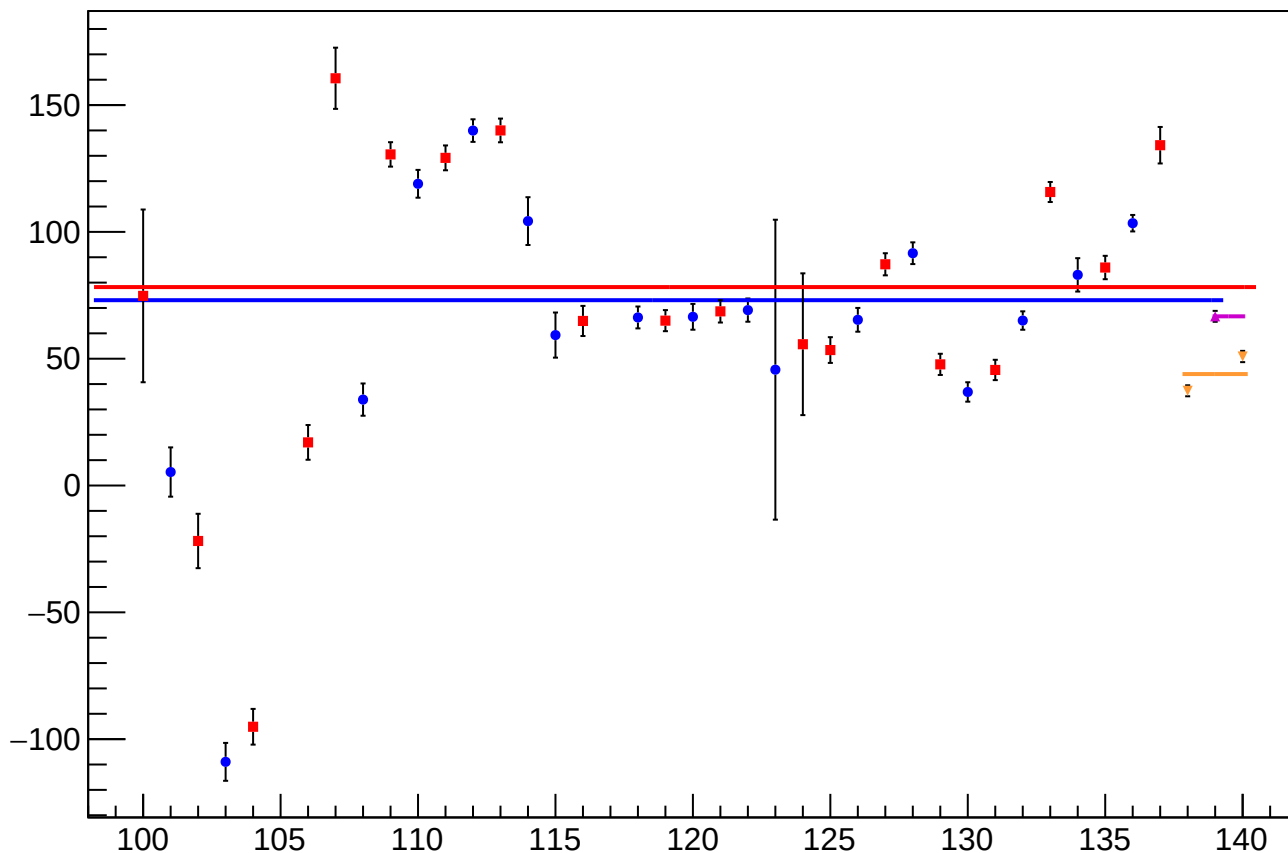
Right: 19.648+/-0.455  $\chi^2/\text{NDF}$ : 986.9/35

In: 17.976+/-0.633  $\chi^2/\text{NDF}$ : 686.0/17

Out: 17.010+/-0.580  $\chi^2/\text{NDF}$ : 517.7/20

All: 17.451+/-0.428  $\chi^2/\text{NDF}$ : 1204.9/38

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 73.071+/-1.228     $\chi^2/\text{NDF}$ : 1200.0/16

Left Out: 43.946+/-1.553     $\chi^2/\text{NDF}$ :18.9/1

Right Out: 78.241+/-1.223     $\chi^2/\text{NDF}$ : 1542.7/18

Left In: 66.706+/-2.155     $\chi^2/\text{NDF}$ :0.0/0

Left: 51.725+/-1.260     $\chi^2/\text{NDF}$ : 92.3/2

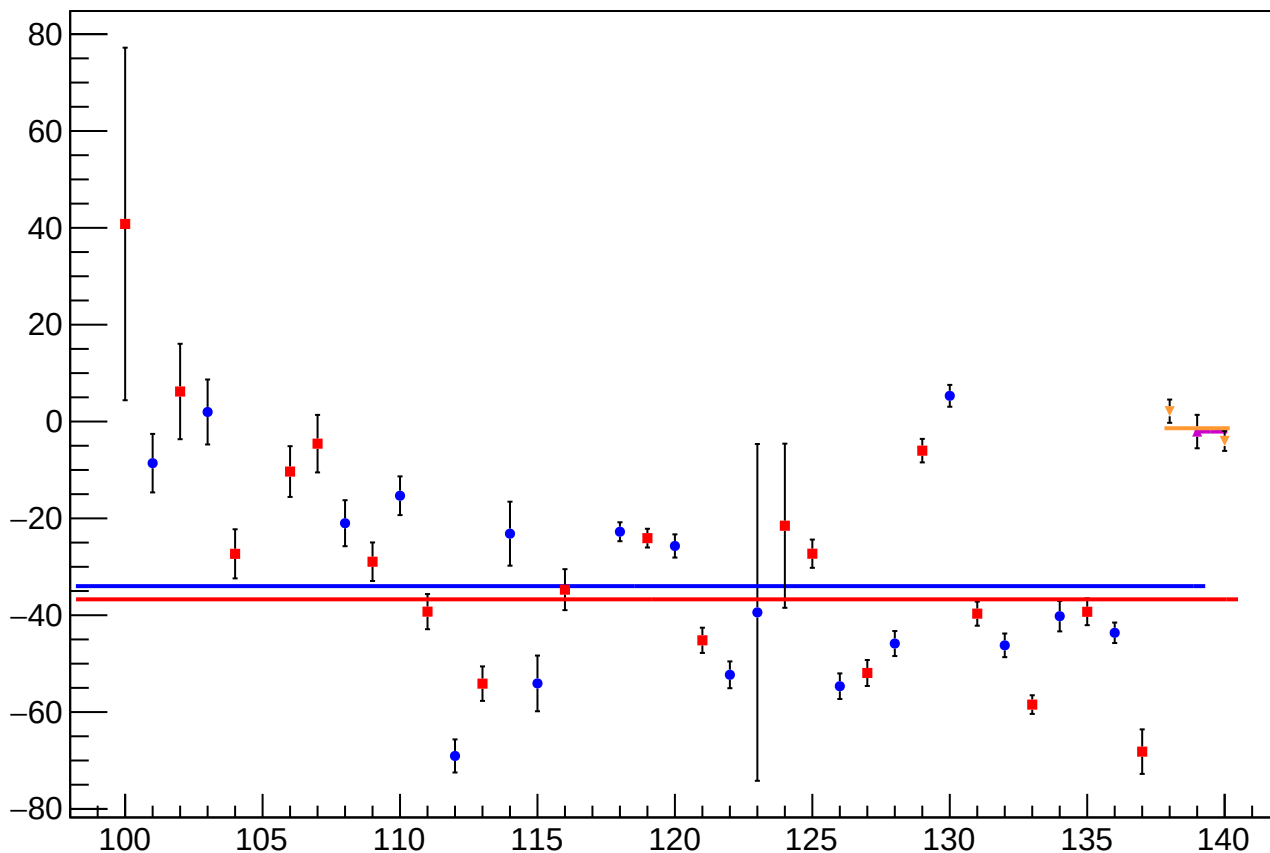
Right: 75.667+/-0.866     $\chi^2/\text{NDF}$ : 2751.5/35

In: 71.511+/-1.067     $\chi^2/\text{NDF}$ :1206.6/17

Out: 65.119+/-0.961     $\chi^2/\text{NDF}$ :1862.7/20

All: 67.981+/-0.714     $\chi^2/\text{NDF}$ : 3089.1/38

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:  $-1.382 \pm 1.568$   $\chi^2/\text{NDF}$ : 3.7/1

Right Out:  $-36.719 \pm 0.737$   $\chi^2/\text{NDF}$ : 542.9/18

Left In:  $-2.069 \pm 3.454$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.499 \pm 1.427$   $\chi^2/\text{NDF}$ : 3.8/2

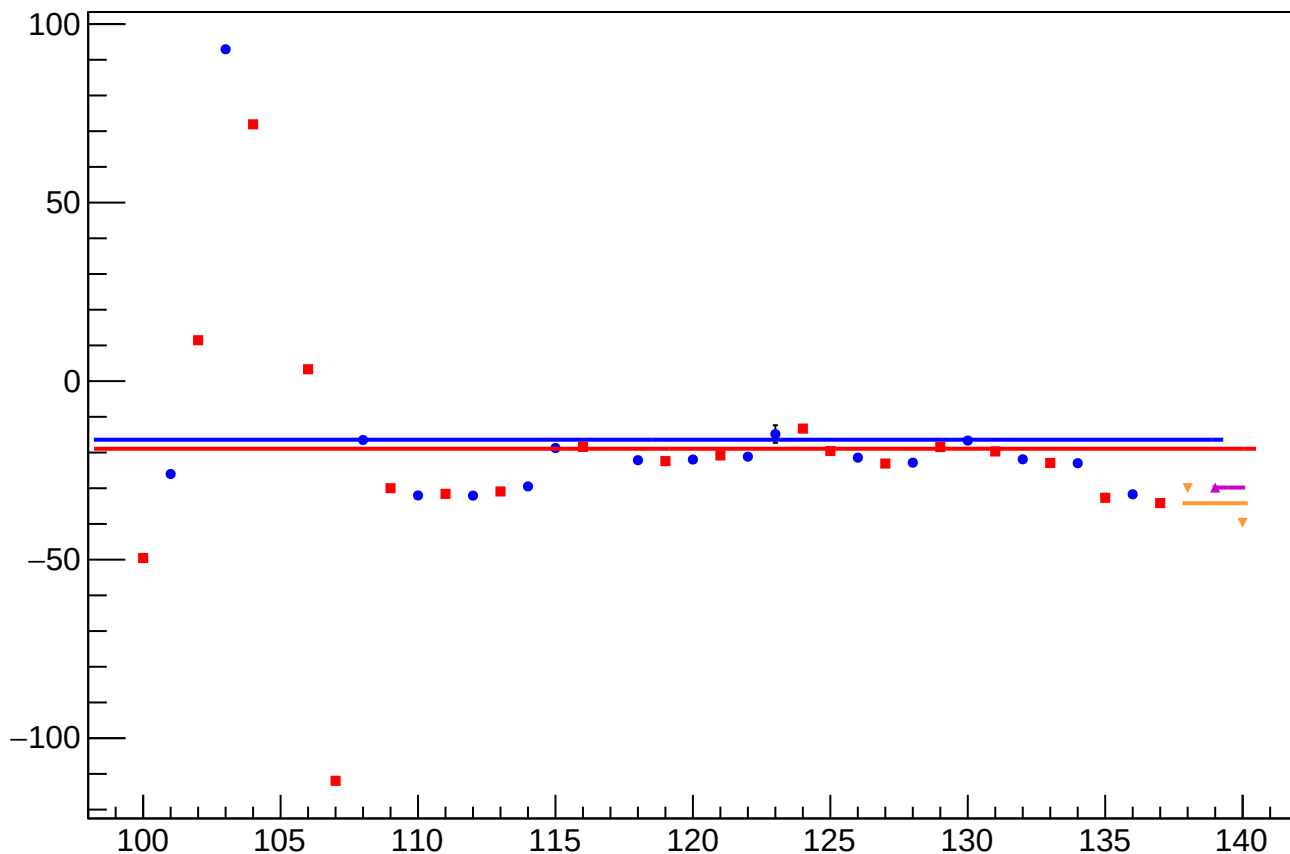
Right:  $-35.354 \pm 0.521$   $\chi^2/\text{NDF}$ : 1269.6/35

In:  $-32.603 \pm 0.720$   $\chi^2/\text{NDF}$ : 801.5/17

Out:  $-30.325 \pm 0.667$   $\chi^2/\text{NDF}$ : 962.9/20

All:  $-31.377 \pm 0.489$   $\chi^2/\text{NDF}$ : 1769.8/38

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -16.408 $\pm$ 0.044  $\chi^2$ /NDF: 474368.4/16

Left Out: -34.188 $\pm$ 0.064  $\chi^2$ /NDF: 5722.6/1

Right Out: -18.934 $\pm$ 0.045  $\chi^2$ /NDF: 434152.2/18

Left In: -29.811 $\pm$ 0.076  $\chi^2$ /NDF: 0.0/0

Left: -32.379 $\pm$ 0.049  $\chi^2$ /NDF: 7674.6/2

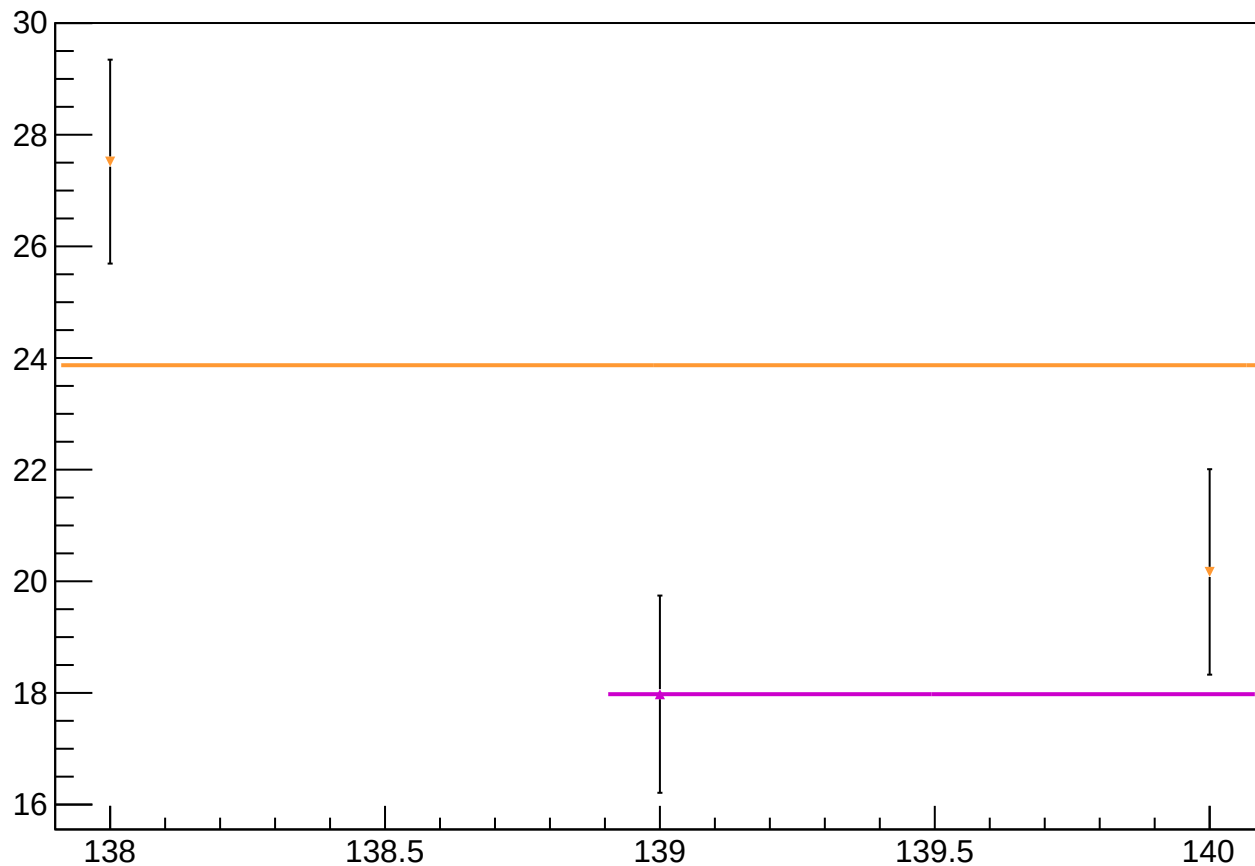
Right: -17.648 $\pm$ 0.032  $\chi^2$ /NDF: 910108.0/35

In: -19.829 $\pm$ 0.038  $\chi^2$ /NDF: 497602.4/17

Out: -24.049 $\pm$ 0.037  $\chi^2$ /NDF: 478001.7/20

All: -22.020 $\pm$ 0.027  $\chi^2$ /NDF: 981899.8/38

reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 23.871+/-1.296  $\chi^2$ /NDF:8.0/1

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 17.977+/-1.767  $\chi^2$ /NDF:0.0/0

Left: 21.808+/-1.045  $\chi^2$ /NDF: 15.3/2

Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

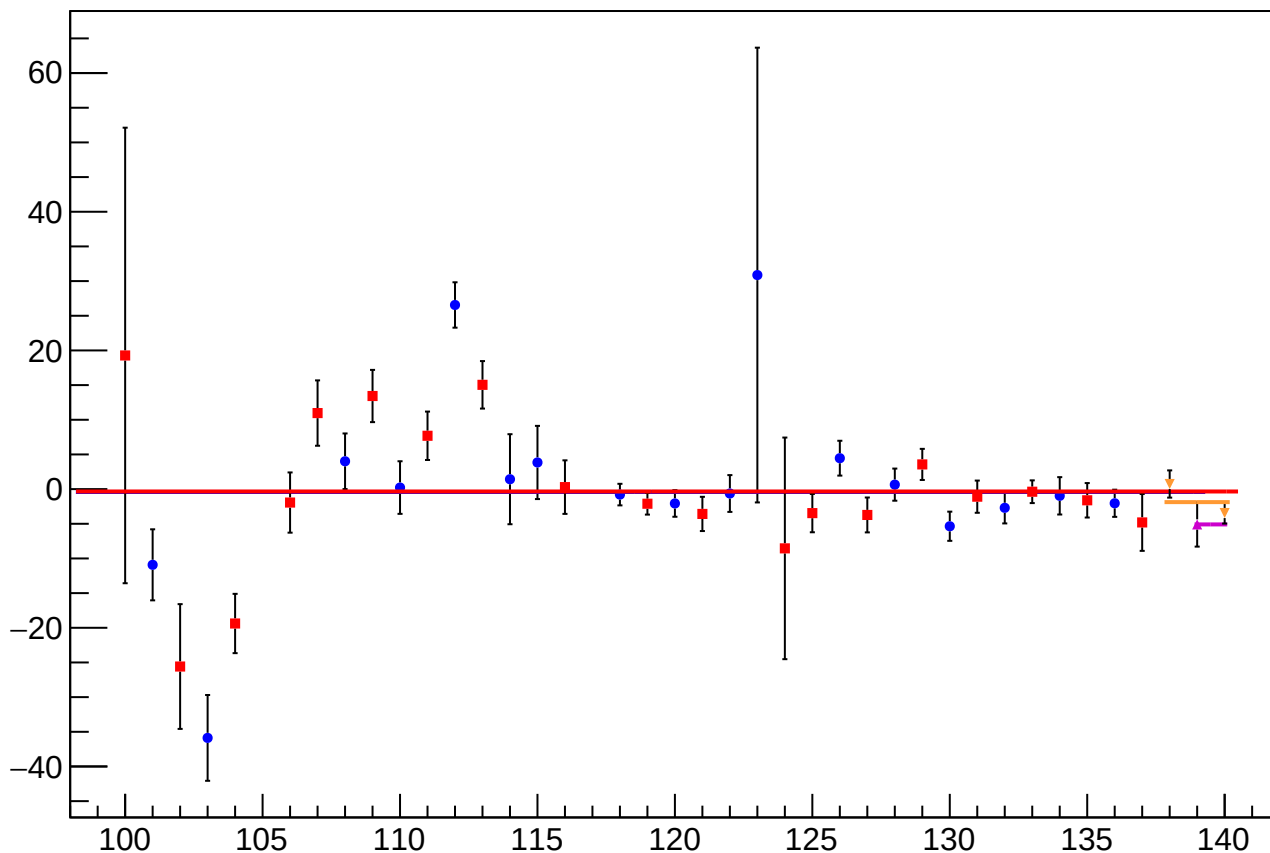
In: 17.977+/-1.767  $\chi^2$ /NDF:0.0/0

Out: 23.871+/-1.296  $\chi^2$ /NDF:8.0/1

All: 21.808+/-1.045  $\chi^2$ /NDF: 15.3/2



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:  $-1.875 \pm 1.204$   $\chi^2/\text{NDF}$ : 2.8/1

Right Out:  $-0.342 \pm 0.658$   $\chi^2/\text{NDF}$ : 83.7/18

Left In:  $-5.092 \pm 3.202$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-2.274 \pm 1.127$   $\chi^2/\text{NDF}$ : 3.7/2

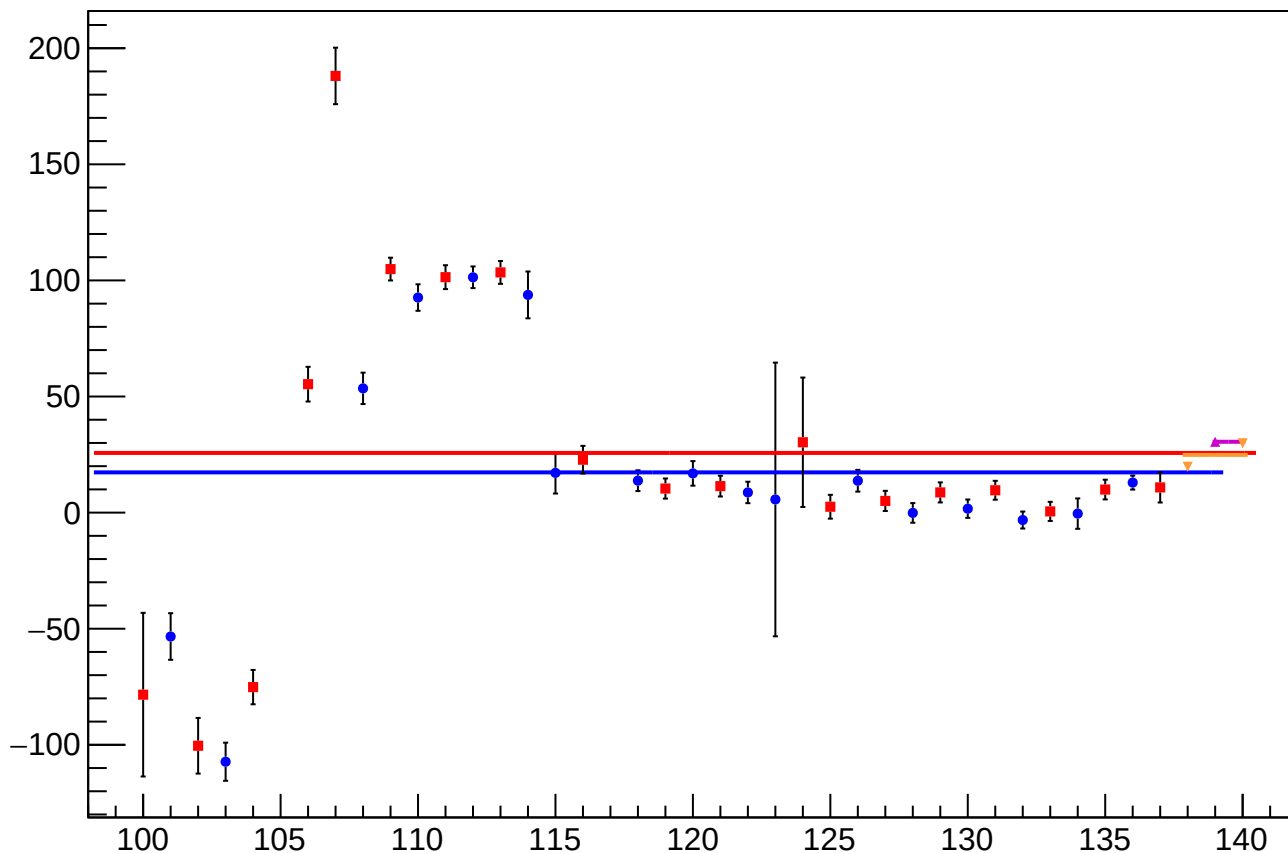
Right:  $-0.378 \pm 0.463$   $\chi^2/\text{NDF}$ : 203.7/35

In:  $-0.601 \pm 0.640$   $\chi^2/\text{NDF}$ : 122.0/17

Out:  $-0.695 \pm 0.577$   $\chi^2/\text{NDF}$ : 87.8/20

All:  $-0.652 \pm 0.429$   $\chi^2/\text{NDF}$ : 209.8/38

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.328 $\pm$ 1.239  $\chi^2$ /NDF: 943.2/16

Left Out: 24.860 $\pm$ 1.394  $\chi^2$ /NDF:13.1/1

Right Out: 25.701 $\pm$ 1.243  $\chi^2$ /NDF: 1379.1/18

Left In: 30.511 $\pm$ 1.911  $\chi^2$ /NDF:0.0/0

Left: 26.822 $\pm$ 1.126  $\chi^2$ /NDF: 18.8/2

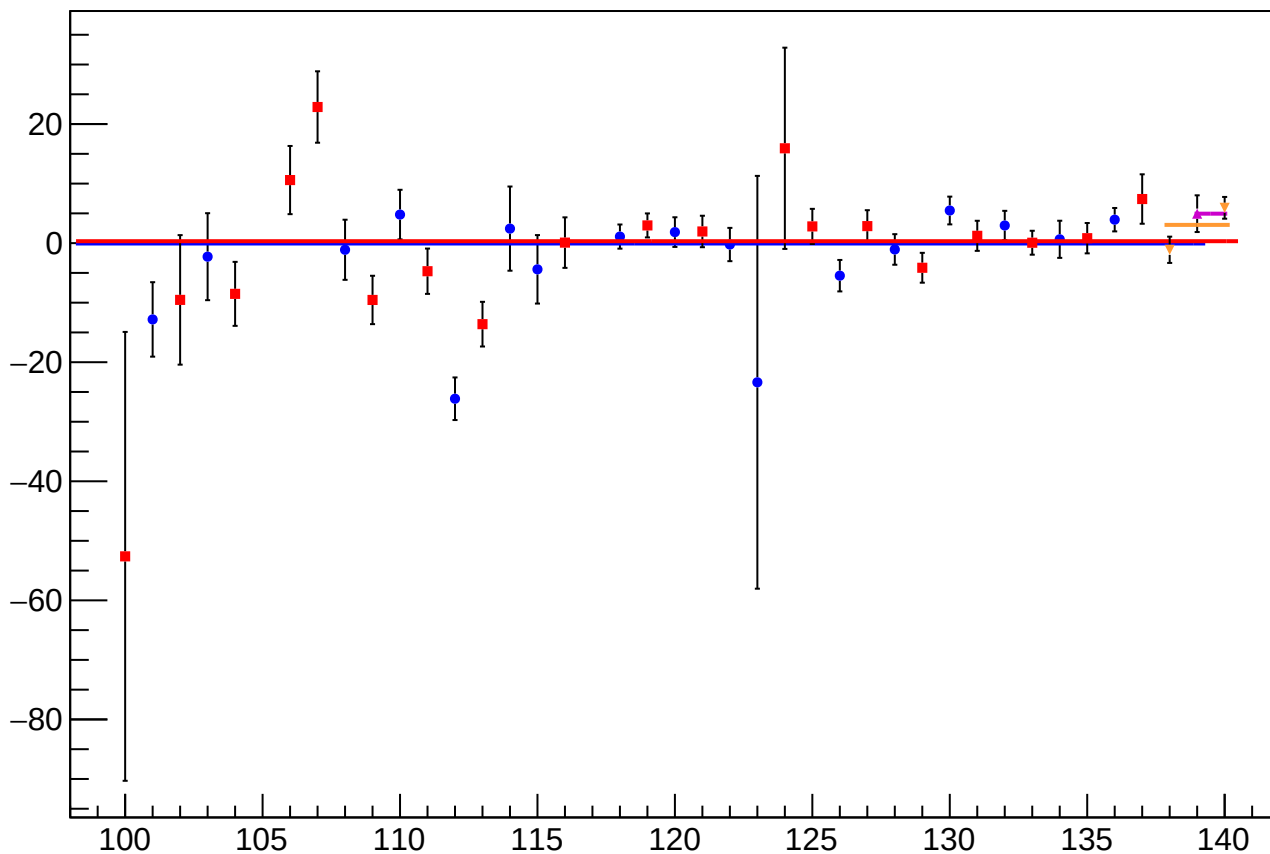
Right: 21.501 $\pm$ 0.877  $\chi^2$ /NDF: 2345.0/35

In: 21.228 $\pm$ 1.039  $\chi^2$ /NDF:976.7/17

Out: 25.329 $\pm$ 0.928  $\chi^2$ /NDF:1392.4/20

All: 23.511 $\pm$ 0.692  $\chi^2$ /NDF: 2377.8/38

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:  $3.064 \pm 1.407$   $\chi^2/\text{NDF}$ : 6.1/1

Right Out:  $0.326 \pm 0.749$   $\chi^2/\text{NDF}$ : 55.1/18

Left In:  $4.948 \pm 3.084$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $3.389 \pm 1.280$   $\chi^2/\text{NDF}$ : 6.4/2

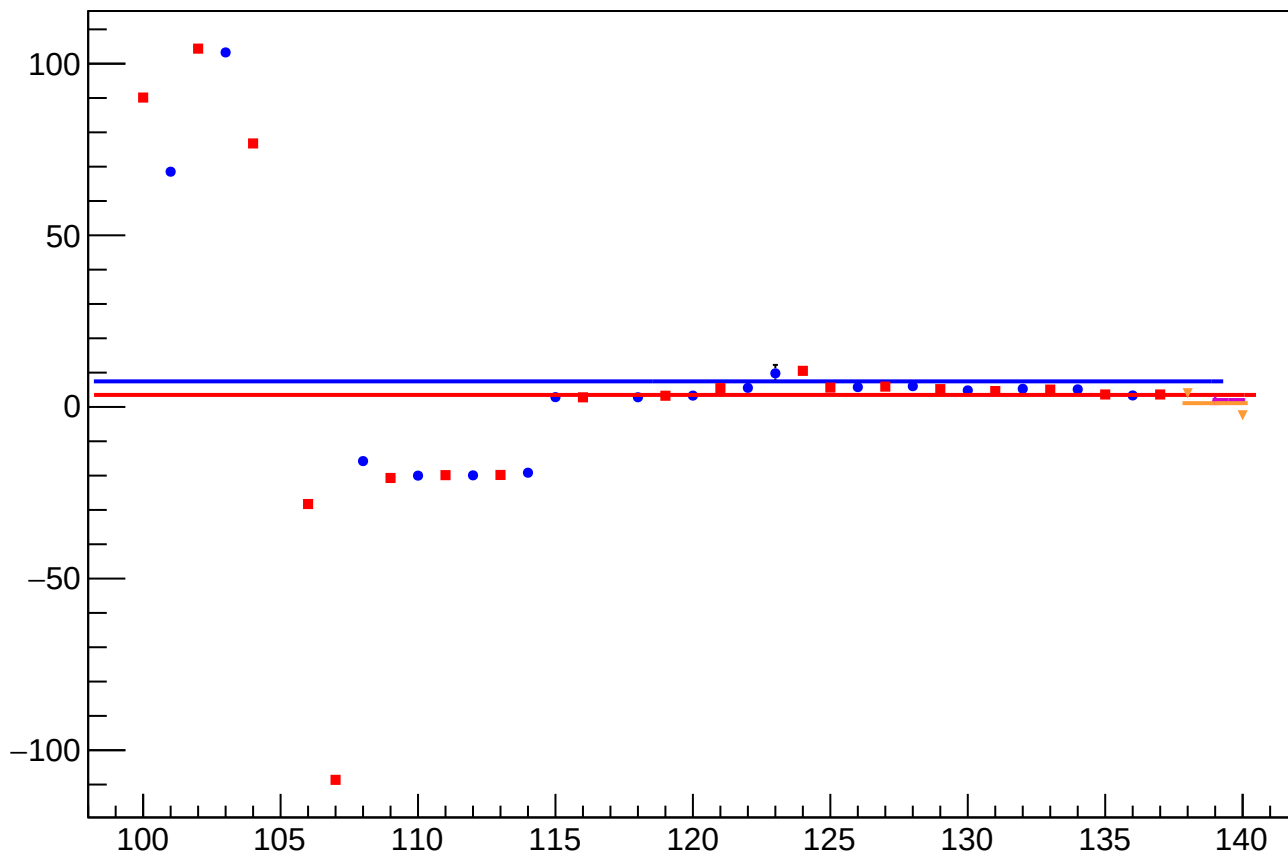
Right:  $0.132 \pm 0.528$   $\chi^2/\text{NDF}$ : 131.8/35

In:  $0.216 \pm 0.723$   $\chi^2/\text{NDF}$ : 79.0/17

Out:  $0.931 \pm 0.661$   $\chi^2/\text{NDF}$ : 64.1/20

All:  $0.605 \pm 0.488$   $\chi^2/\text{NDF}$ : 143.7/38

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: 1.104+/-0.057  $\chi^2/\text{NDF}$ :3135.5/1

Right Out: 3.502+/-0.046  $\chi^2/\text{NDF}$ : 510579.7/18

Left In: 2.016+/-0.068  $\chi^2/\text{NDF}$ :0.0/0

Left: 1.483+/-0.044  $\chi^2/\text{NDF}$ : 3241.6/2

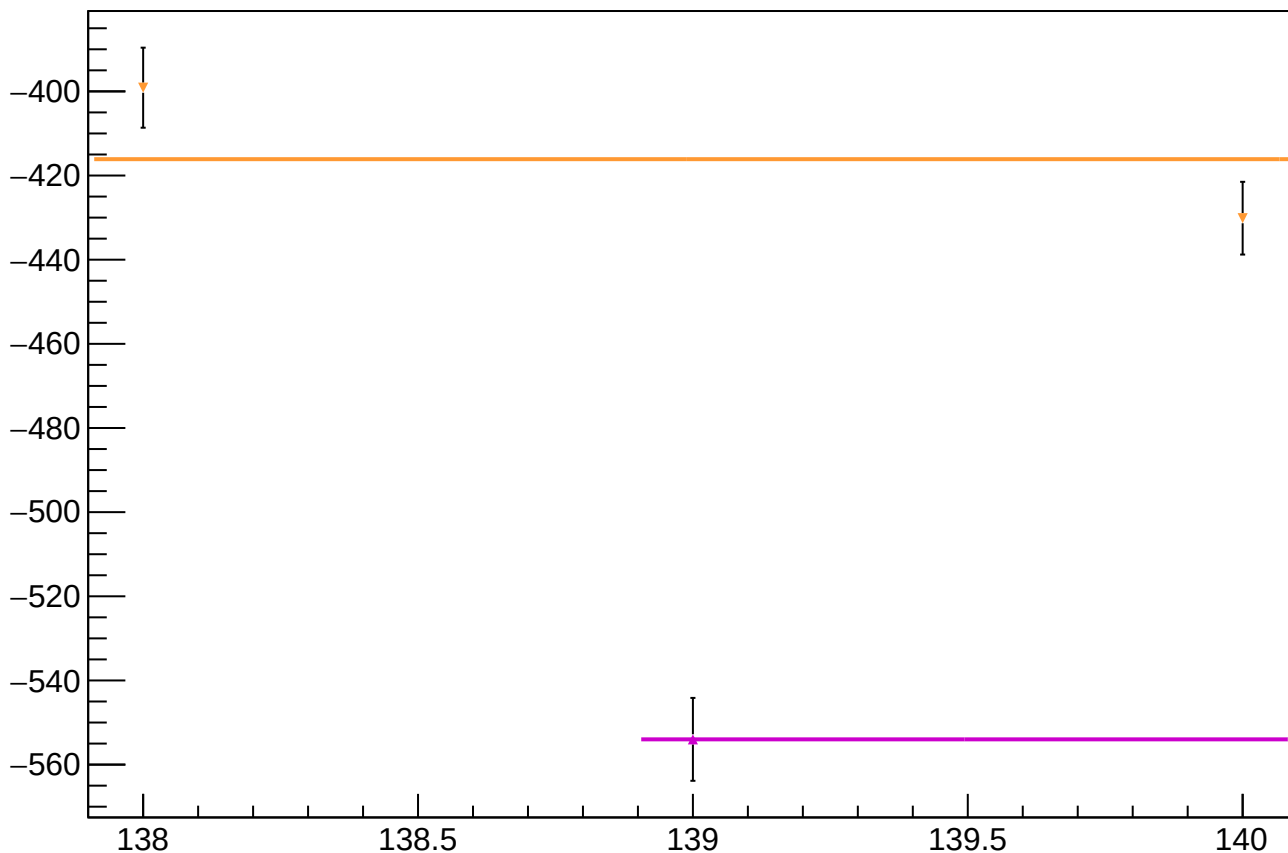
Right: 5.528+/-0.032  $\chi^2/\text{NDF}$ : 870492.1/35

In: 5.817+/-0.037  $\chi^2/\text{NDF}$ :360566.4/17

Out: 2.569+/-0.036  $\chi^2/\text{NDF}$ :514794.0/20

All: 4.124+/-0.026  $\chi^2/\text{NDF}$ : 879346.3/38

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -416.111+/-6.397  $\chi^2/\text{NDF}$ : 5.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -553.998+/-9.849  $\chi^2/\text{NDF}$ : 0.0/0

Left: -457.018+/-5.365  $\chi^2/\text{NDF}$ : 143.7/2

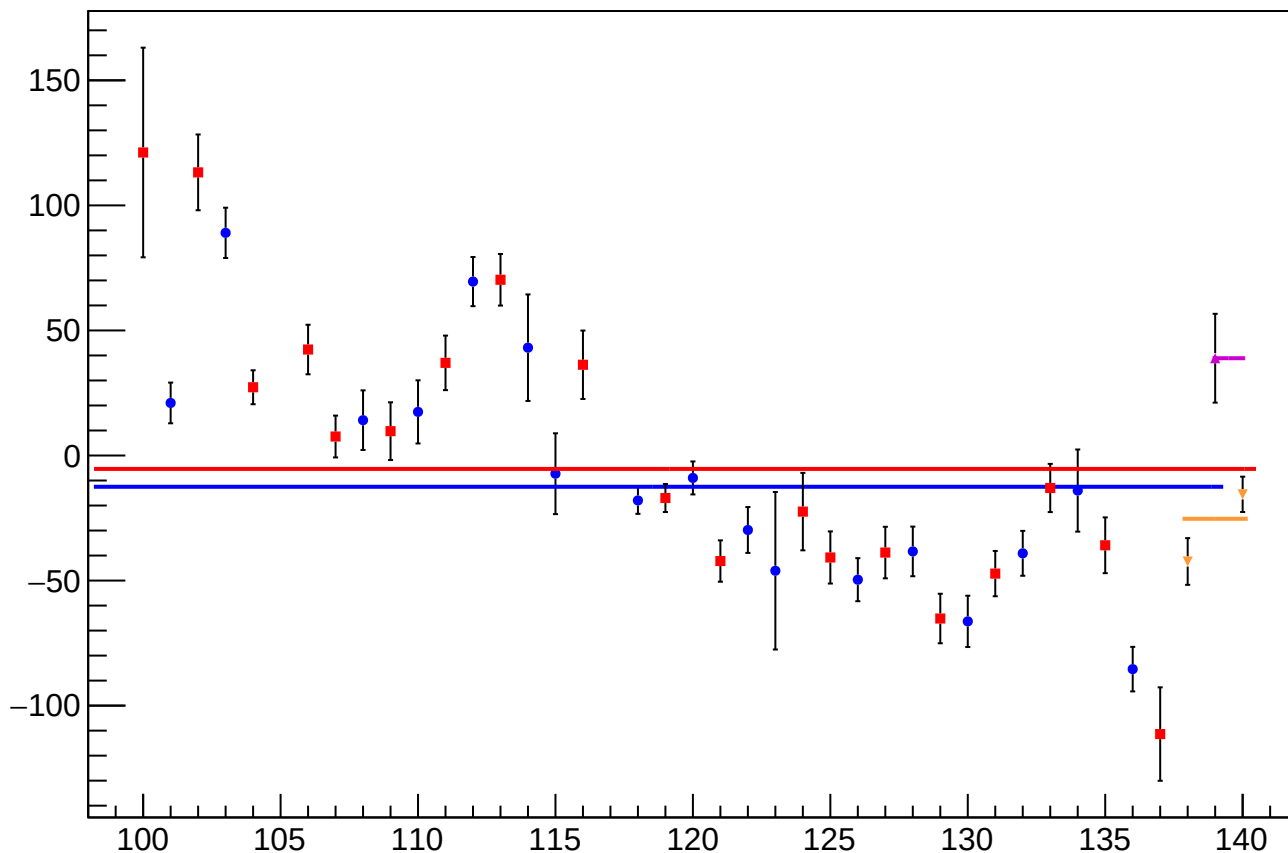
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -553.998+/-9.849  $\chi^2/\text{NDF}$ : 0.0/0

Out: -416.111+/-6.397  $\chi^2/\text{NDF}$ : 5.8/1

All: -457.018+/-5.365  $\chi^2/\text{NDF}$ : 143.7/2

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-12.500 \pm 2.311$   $\chi^2/\text{NDF}$ : 341.1/16

Left Out:  $-25.300 \pm 5.635$   $\chi^2/\text{NDF}$ : 5.3/1

Right Out:  $-5.363 \pm 2.264$   $\chi^2/\text{NDF}$ : 344.6/18

Left In:  $38.893 \pm 17.755$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-19.424 \pm 5.371$   $\chi^2/\text{NDF}$ : 17.1/2

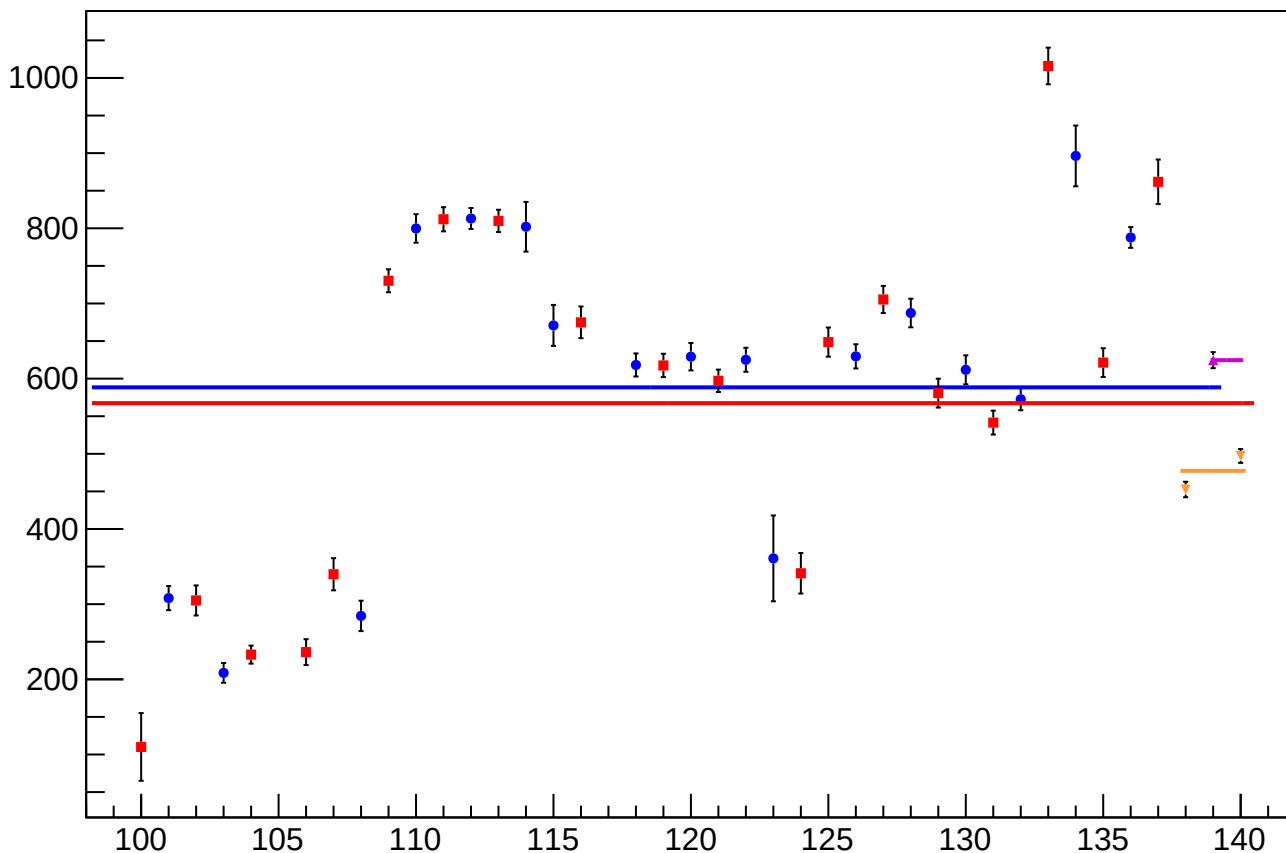
Right:  $-8.858 \pm 1.617$   $\chi^2/\text{NDF}$ : 690.5/35

In:  $-11.644 \pm 2.292$   $\chi^2/\text{NDF}$ : 349.3/17

Out:  $-8.134 \pm 2.101$   $\chi^2/\text{NDF}$ : 360.6/20

All:  $-9.737 \pm 1.549$   $\chi^2/\text{NDF}$ : 711.2/38

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 588.421+/-4.320  $\chi^2/\text{NDF}$ : 2130.2/16

Left Out: 477.371+/-6.865  $\chi^2/\text{NDF}$ :10.4/1

Right Out: 567.451+/-4.137  $\chi^2/\text{NDF}$ : 2784.8/18

Left In: 624.607+/-10.664  $\chi^2/\text{NDF}$ :0.0/0

Left: 520.514+/-5.772  $\chi^2/\text{NDF}$ : 145.2/2

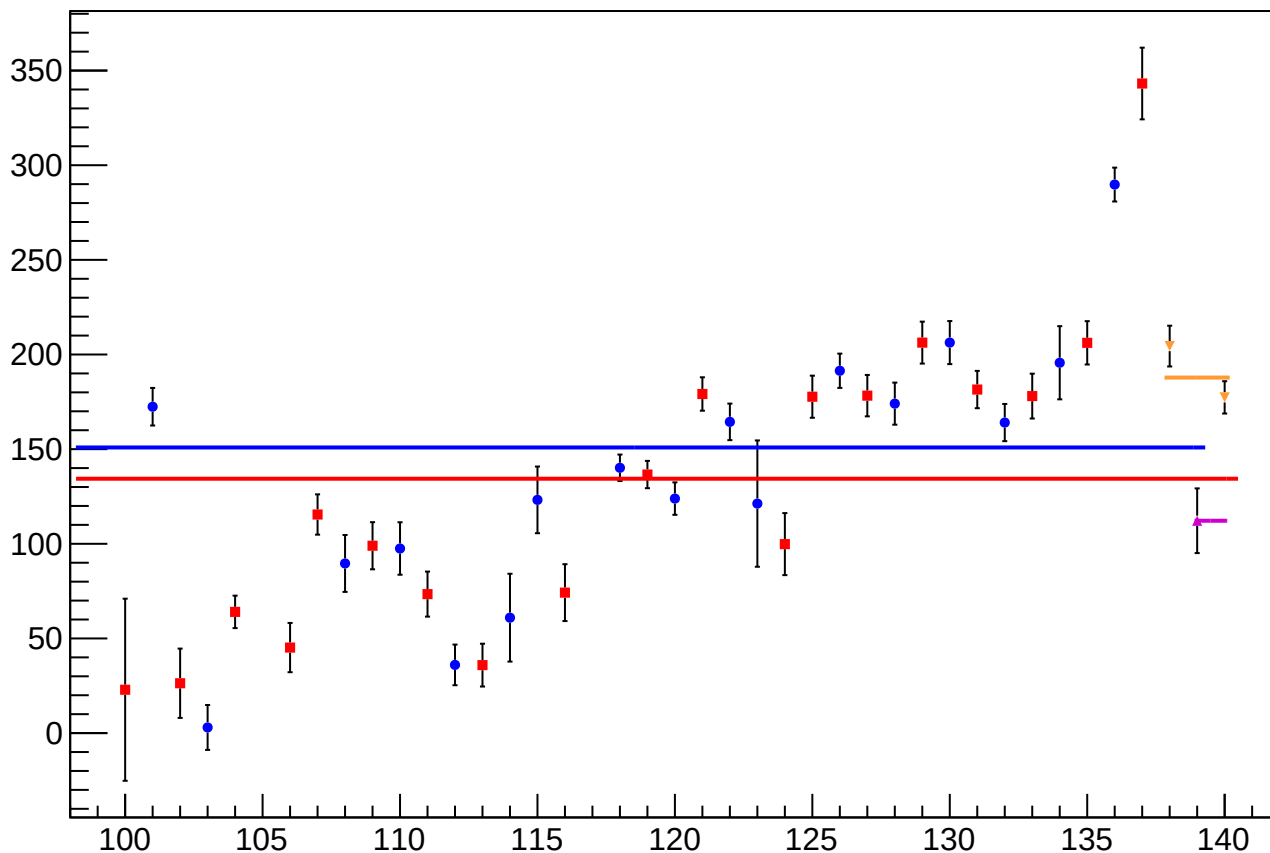
Right: 577.481+/-2.988  $\chi^2/\text{NDF}$ : 4927.3/35

In: 593.524+/-4.004  $\chi^2/\text{NDF}$ :2140.1/17

Out: 543.455+/-3.543  $\chi^2/\text{NDF}$ :2921.6/20

All: 565.443+/-2.654  $\chi^2/\text{NDF}$ : 5149.3/38

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 150.891+/-2.674  $\chi^2/\text{NDF}$ : 634.8/16

Left Out: 187.813+/-6.689  $\chi^2/\text{NDF}$ : 3.9/1

Right Out: 134.381+/-2.620  $\chi^2/\text{NDF}$ : 584.9/18

Left In: 112.184+/-17.092  $\chi^2/\text{NDF}$ : 0.0/0

Left: 177.769+/-6.229  $\chi^2/\text{NDF}$ : 20.9/2

Right: 142.467+/-1.871  $\chi^2/\text{NDF}$ : 1239.2/35

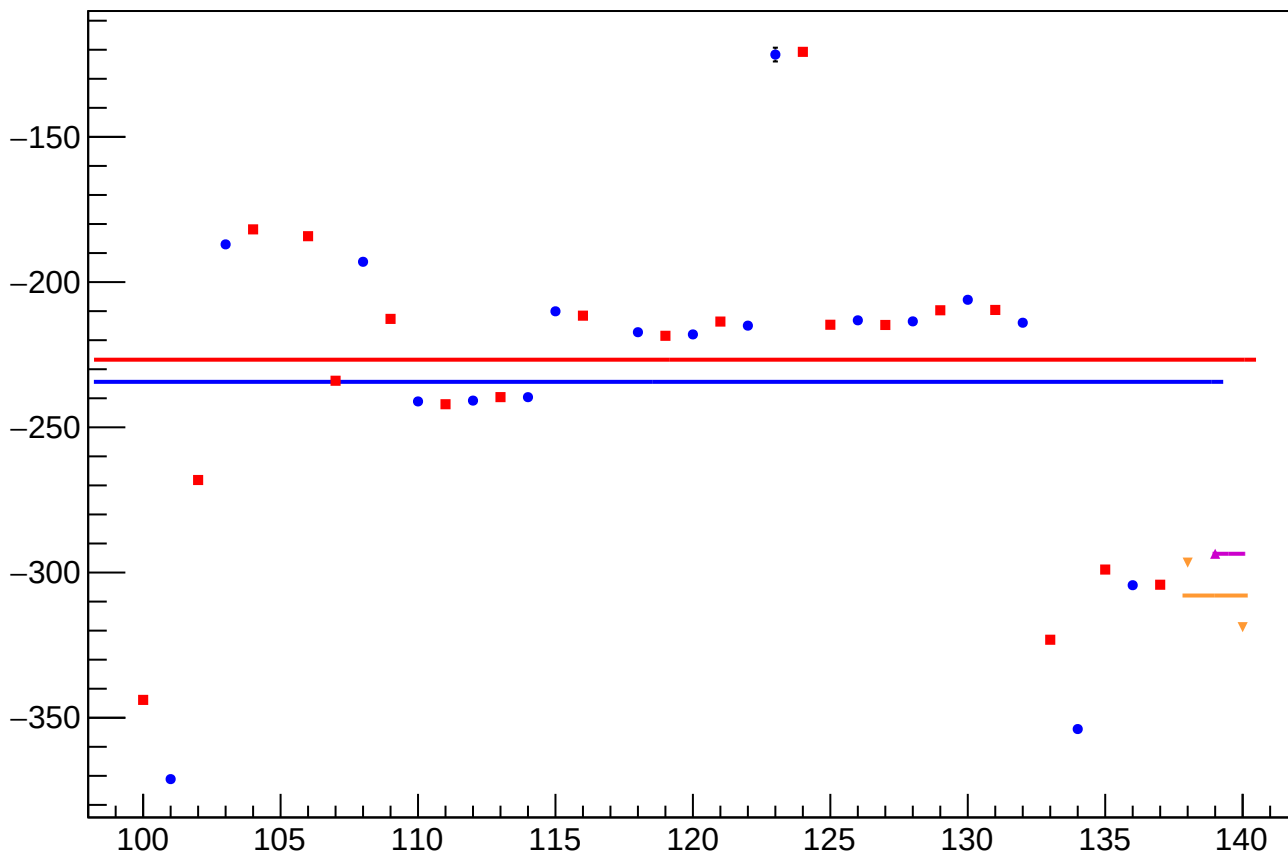
In: 149.966+/-2.642  $\chi^2/\text{NDF}$ : 639.8/17

Out: 141.487+/-2.439  $\chi^2/\text{NDF}$ : 644.1/20

All: 145.389+/-1.792  $\chi^2/\text{NDF}$ : 1289.5/38



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: -307.912+/-0.287  $\chi^2/\text{NDF}$ : 1494.8/1

Right Out: -226.716+/-0.141  $\chi^2/\text{NDF}$ : 99440.4/18

Left In: -293.537+/-0.376  $\chi^2/\text{NDF}$ : 0.0/0

Left: -302.606+/-0.228  $\chi^2/\text{NDF}$ : 2417.9/2

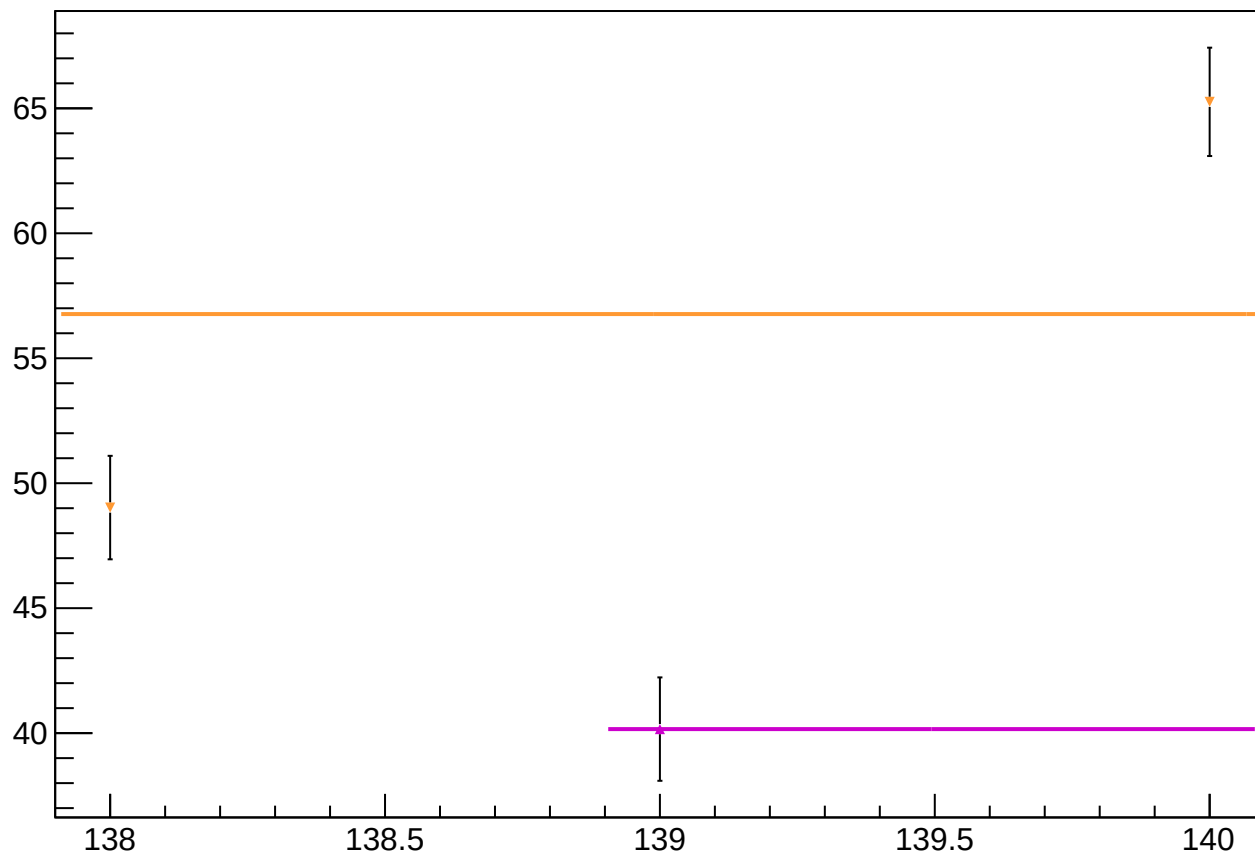
Right: -230.345+/-0.102  $\chi^2/\text{NDF}$ : 245990.9/35

In: -242.318+/-0.138  $\chi^2/\text{NDF}$ : 166633.2/17

Out: -242.523+/-0.127  $\chi^2/\text{NDF}$ : 165196.6/20

All: -242.429+/-0.093  $\chi^2/\text{NDF}$ : 331830.9/38

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: 56.768+/-1.497  $\chi^2/\text{NDF}$ :29.3/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 40.161+/-2.069  $\chi^2/\text{NDF}$ :0.0/0

Left: 51.059+/-1.213  $\chi^2/\text{NDF}$ : 71.6/2

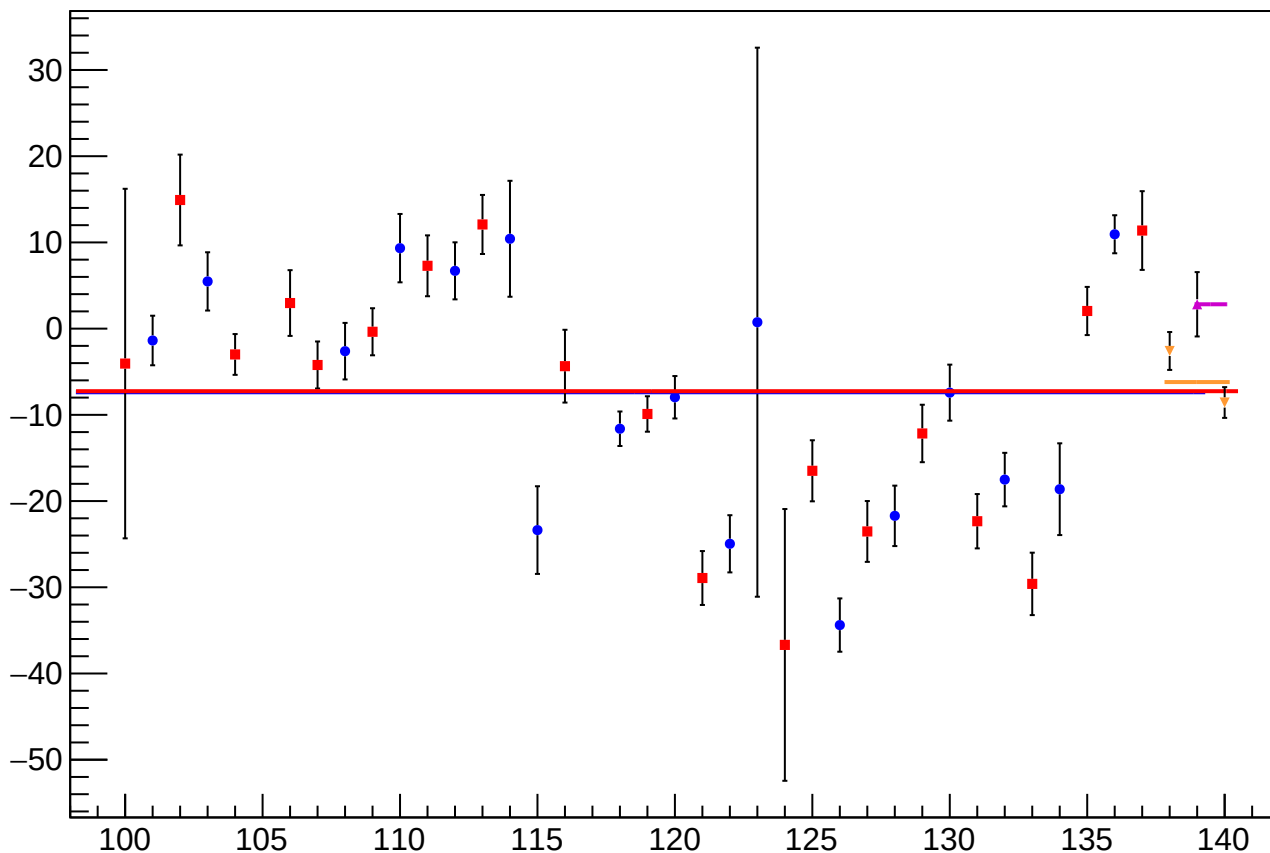
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 40.161+/-2.069  $\chi^2/\text{NDF}$ :0.0/0

Out: 56.768+/-1.497  $\chi^2/\text{NDF}$ :29.3/1

All: 51.059+/-1.213  $\chi^2/\text{NDF}$ : 71.6/2

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:  $-6.196 \pm 1.385$   $\chi^2/\text{NDF}: 4.5/1$

Right Out:  $-7.256 \pm 0.762$   $\chi^2/\text{NDF}: 257.3/18$

Left In:  $2.825 \pm 3.732$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-5.105 \pm 1.298$   $\chi^2/\text{NDF}: 9.6/2$

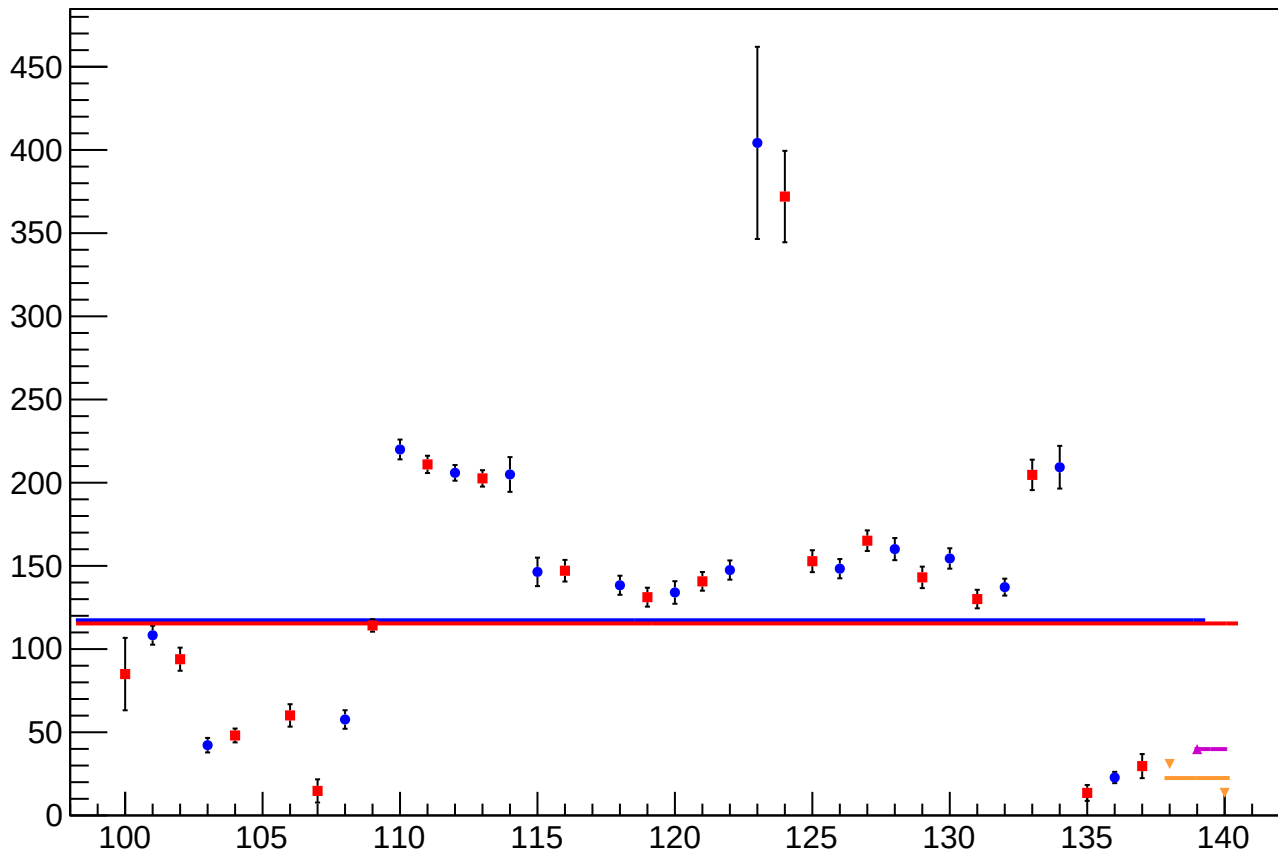
Right:  $-7.317 \pm 0.545$   $\chi^2/\text{NDF}: 540.9/35$

In:  $-6.956 \pm 0.762$   $\chi^2/\text{NDF}: 290.7/17$

Out:  $-7.010 \pm 0.668$   $\chi^2/\text{NDF}: 262.2/20$

All:  $-6.986 \pm 0.502$   $\chi^2/\text{NDF}: 553.0/38$

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: 22.482 $\pm$ 1.610  $\chi^2$ /NDF:28.9/1

Right Out: 115.405 $\pm$ 1.361  $\chi^2$ /NDF: 2150.5/18

Left In: 39.889 $\pm$ 2.240  $\chi^2$ /NDF:0.0/0

Left: 28.411 $\pm$ 1.307  $\chi^2$ /NDF: 68.7/2

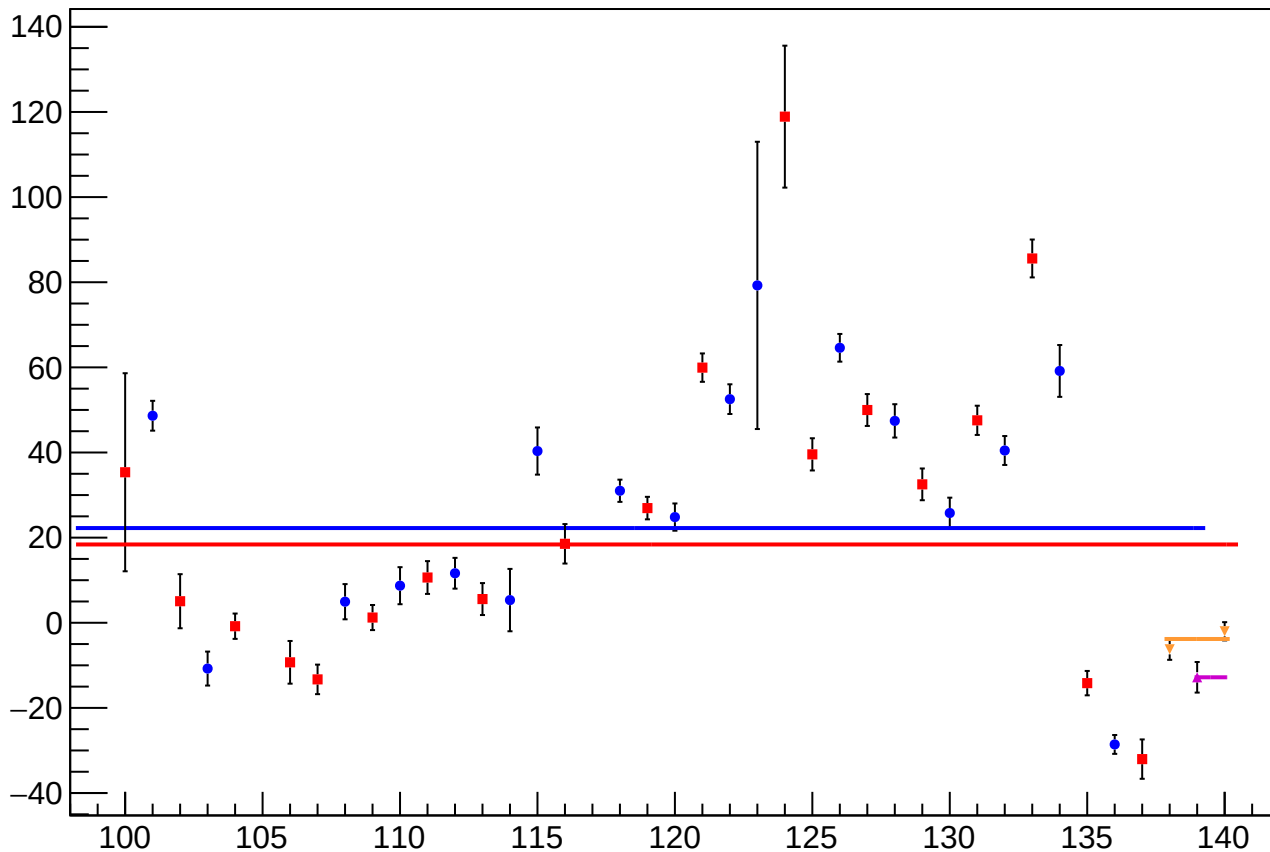
Right: 116.321 $\pm$ 0.979  $\chi^2$ /NDF: 4312.7/35

In: 95.359 $\pm$ 1.192  $\chi^2$ /NDF:3017.4/17

Out: 76.680 $\pm$ 1.039  $\chi^2$ /NDF:4123.2/20

All: 84.743 $\pm$ 0.783  $\chi^2$ /NDF: 7280.1/38

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: -3.810 $\pm$ 1.622  $\chi^2$ /NDF:1.7/1

Right Out: 18.395 $\pm$ 0.872  $\chi^2$ /NDF: 1077.1/18

Left In: -12.810 $\pm$ 3.593  $\chi^2$ /NDF:0.0/0

Left: -5.333 $\pm$ 1.478  $\chi^2$ /NDF: 6.9/2

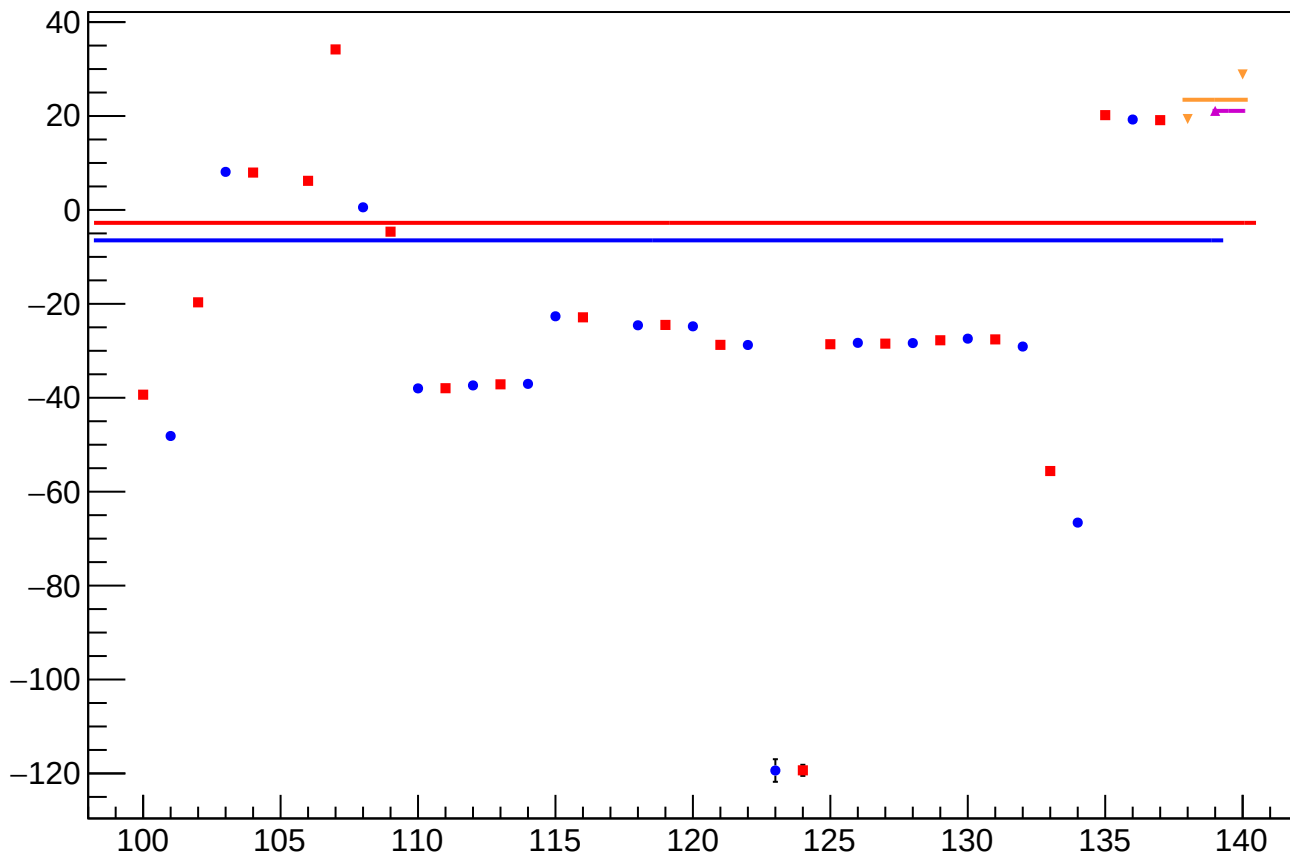
Right: 20.284 $\pm$ 0.622  $\chi^2$ /NDF: 2158.2/35

In: 20.227 $\pm$ 0.863  $\chi^2$ /NDF:1161.2/17

Out: 13.416 $\pm$ 0.768  $\chi^2$ /NDF:1224.2/20

All: 16.425 $\pm$ 0.574  $\chi^2$ /NDF: 2420.2/38

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-6.482 \pm 0.046$   $\chi^2/\text{NDF}$ : 265804.1/16

Left Out:  $23.463 \pm 0.066$   $\chi^2/\text{NDF}$ : 5093.8/1

Right Out:  $-2.751 \pm 0.046$   $\chi^2/\text{NDF}$ : 266291.4/18

Left In:  $21.093 \pm 0.079$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $22.488 \pm 0.051$   $\chi^2/\text{NDF}$ : 5625.2/2

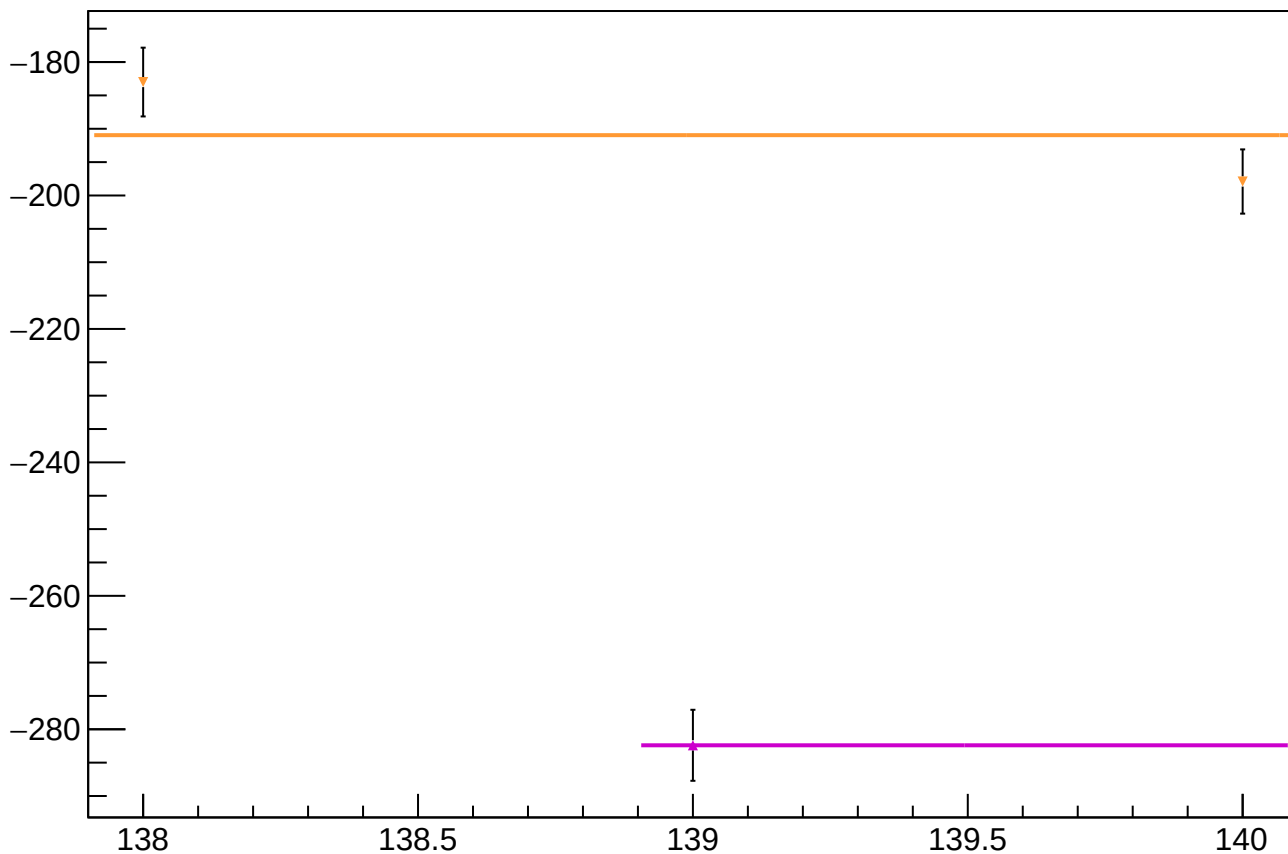
Right:  $-4.597 \pm 0.032$   $\chi^2/\text{NDF}$ : 535394.7/35

In:  $0.557 \pm 0.040$   $\chi^2/\text{NDF}$ : 356884.6/17

Out:  $5.754 \pm 0.038$   $\chi^2/\text{NDF}$ : 378241.0/20

All:  $3.309 \pm 0.027$   $\chi^2/\text{NDF}$ : 744140.8/38

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: -190.958+/-3.518  $\chi^2/\text{NDF}$ : 4.5/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -282.401+/-5.321  $\chi^2/\text{NDF}$ : 0.0/0

Left: -218.769+/-2.935  $\chi^2/\text{NDF}$ : 210.0/2

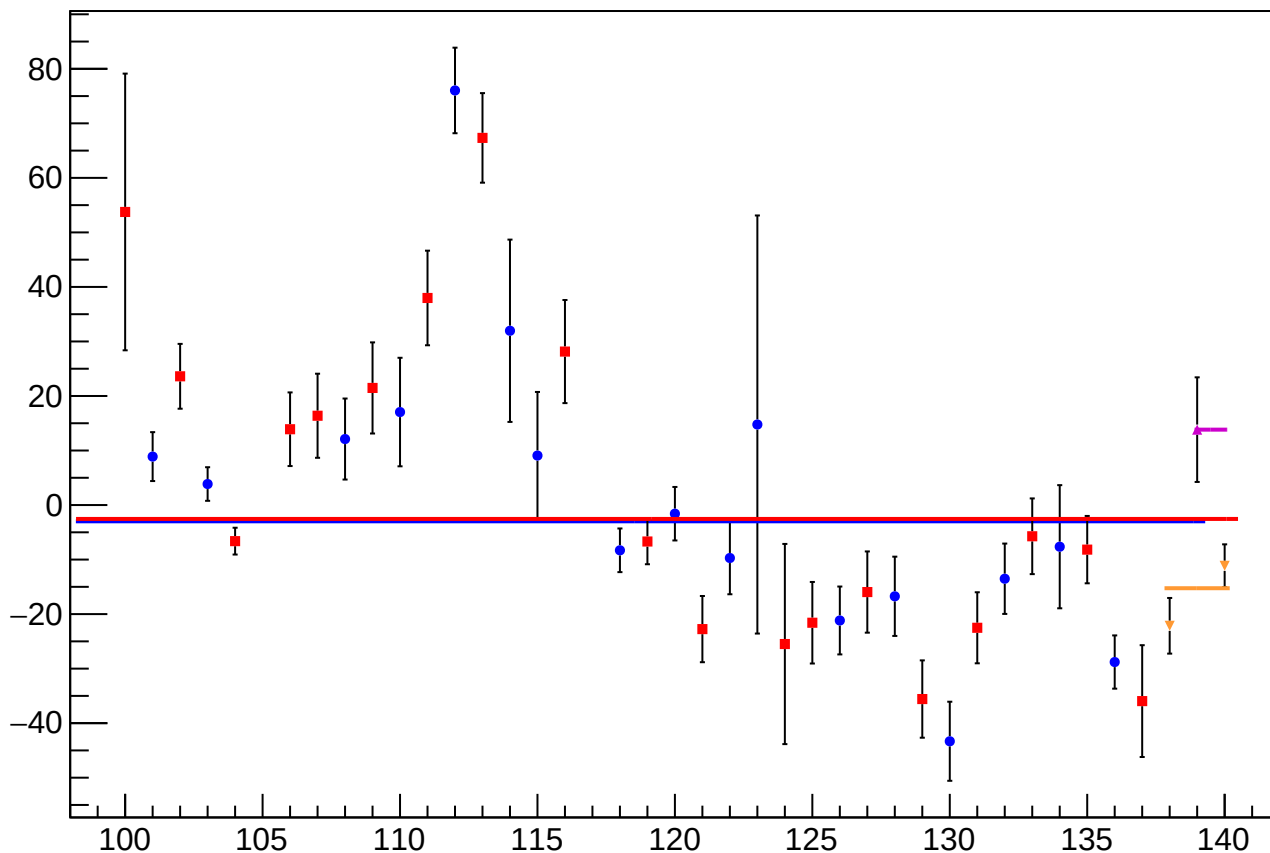
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -282.401+/-5.321  $\chi^2/\text{NDF}$ : 0.0/0

Out: -190.958+/-3.518  $\chi^2/\text{NDF}$ : 4.5/1

All: -218.769+/-2.935  $\chi^2/\text{NDF}$ : 210.0/2

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:  $-15.254 \pm 3.119$   $\chi^2/\text{NDF}$ : 2.9/1

Right Out:  $-2.548 \pm 1.399$   $\chi^2/\text{NDF}$ : 218.1/18

Left In:  $13.828 \pm 9.594$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-12.475 \pm 2.966$   $\chi^2/\text{NDF}$ : 11.2/2

Right:  $-2.757 \pm 1.007$   $\chi^2/\text{NDF}$ : 422.1/35

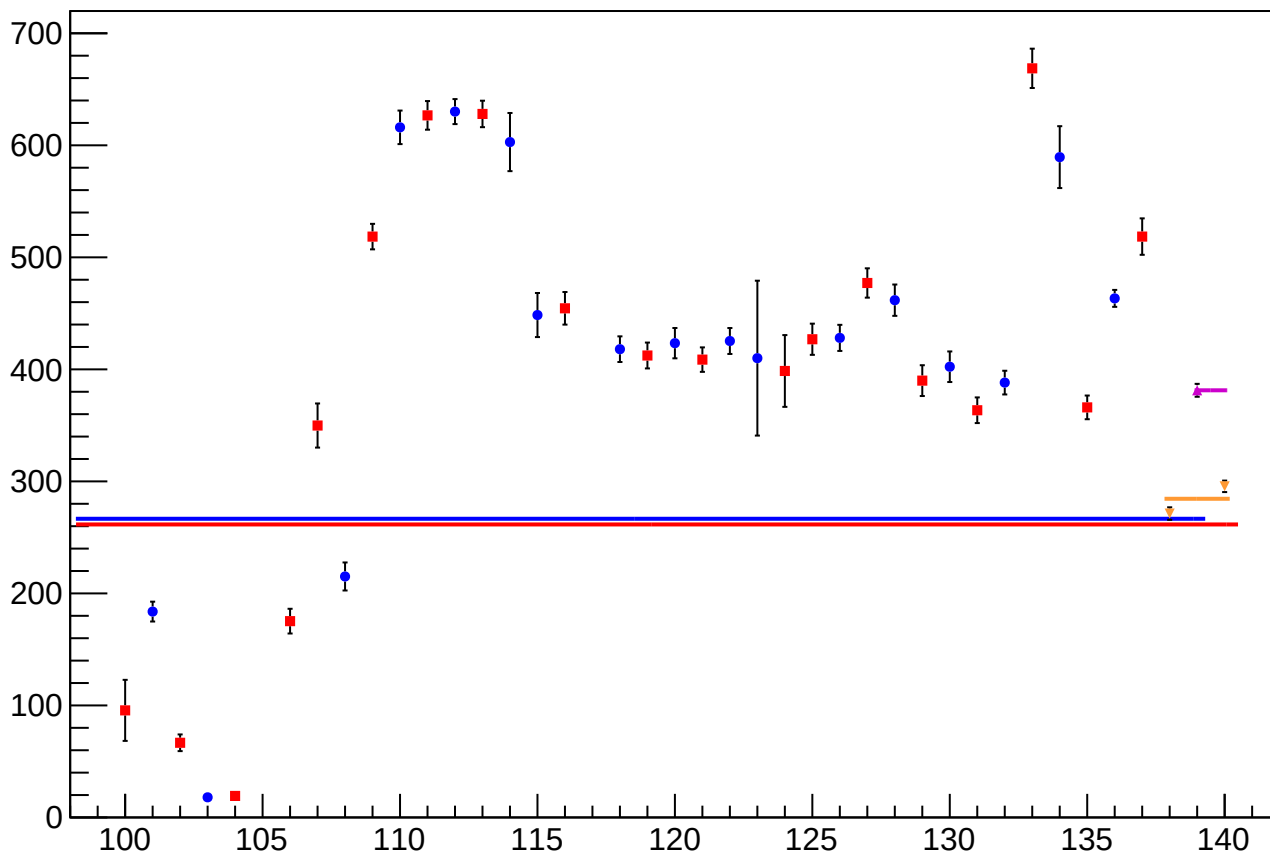
In:  $-2.606 \pm 1.434$   $\chi^2/\text{NDF}$ : 206.9/17

Out:  $-4.675 \pm 1.276$   $\chi^2/\text{NDF}$ : 234.8/20

All:  $-3.761 \pm 0.953$   $\chi^2/\text{NDF}$ : 442.9/38



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: 284.473 $\pm$ 3.777  $\chi^2$ /NDF:10.3/1

Right Out: 261.551 $\pm$ 2.458  $\chi^2$ /NDF: 8208.2/18

Left In: 381.306 $\pm$ 5.761  $\chi^2$ /NDF:0.0/0

Left: 313.582 $\pm$ 3.159  $\chi^2$ /NDF: 207.9/2

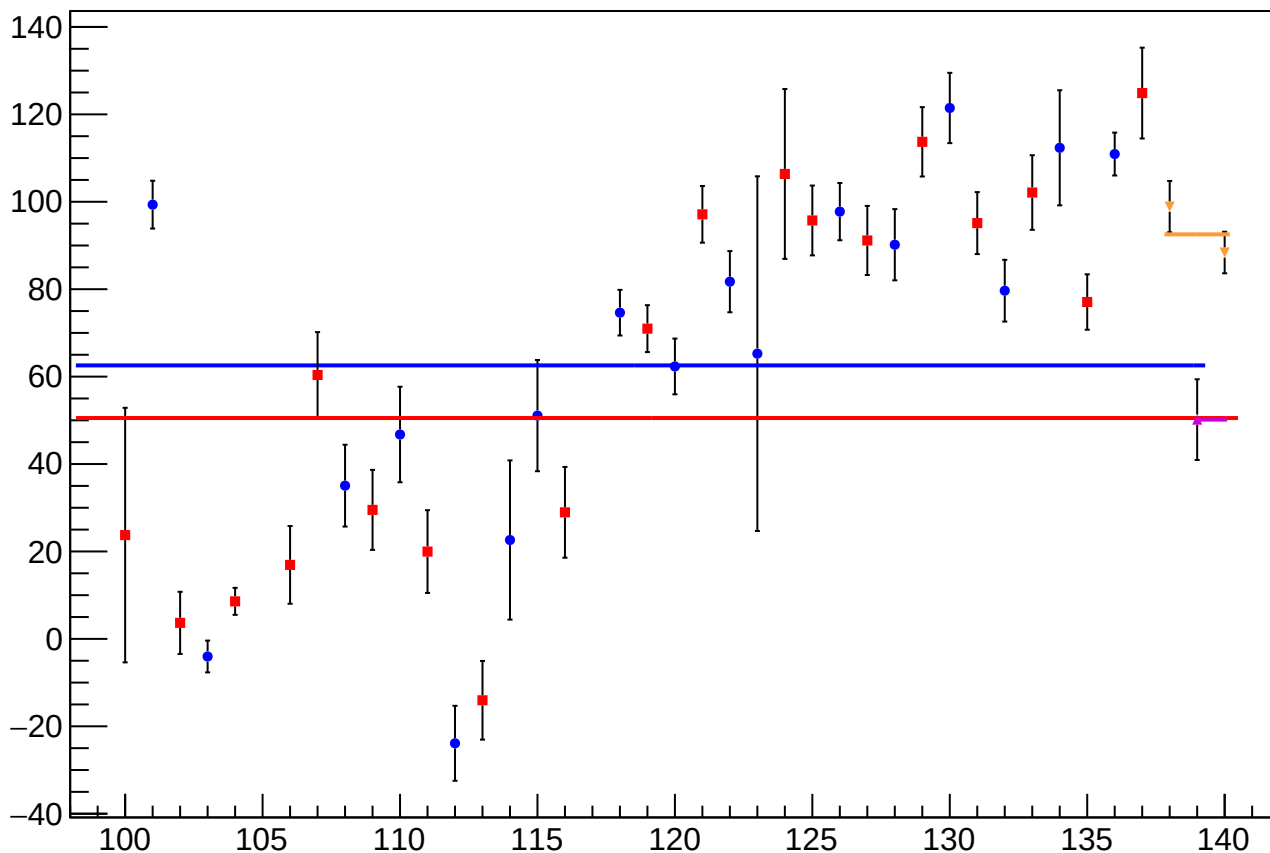
Right: 264.068 $\pm$ 1.745  $\chi^2$ /NDF: 15873.0/35

In: 284.519 $\pm$ 2.276  $\chi^2$ /NDF:7997.1/17

Out: 268.369 $\pm$ 2.060  $\chi^2$ /NDF:8244.4/20

All: 275.643 $\pm$ 1.527  $\chi^2$ /NDF: 16269.2/38

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 62.566 $\pm$ 1.678  $\chi^2$ /NDF: 722.4/16

Left Out: 92.554 $\pm$ 3.695  $\chi^2$ /NDF:1.9/1

Right Out: 50.526 $\pm$ 1.643  $\chi^2$ /NDF: 657.0/18

Left In: 50.165 $\pm$ 9.235  $\chi^2$ /NDF:0.0/0

Left: 86.705 $\pm$ 3.431  $\chi^2$ /NDF: 20.1/2

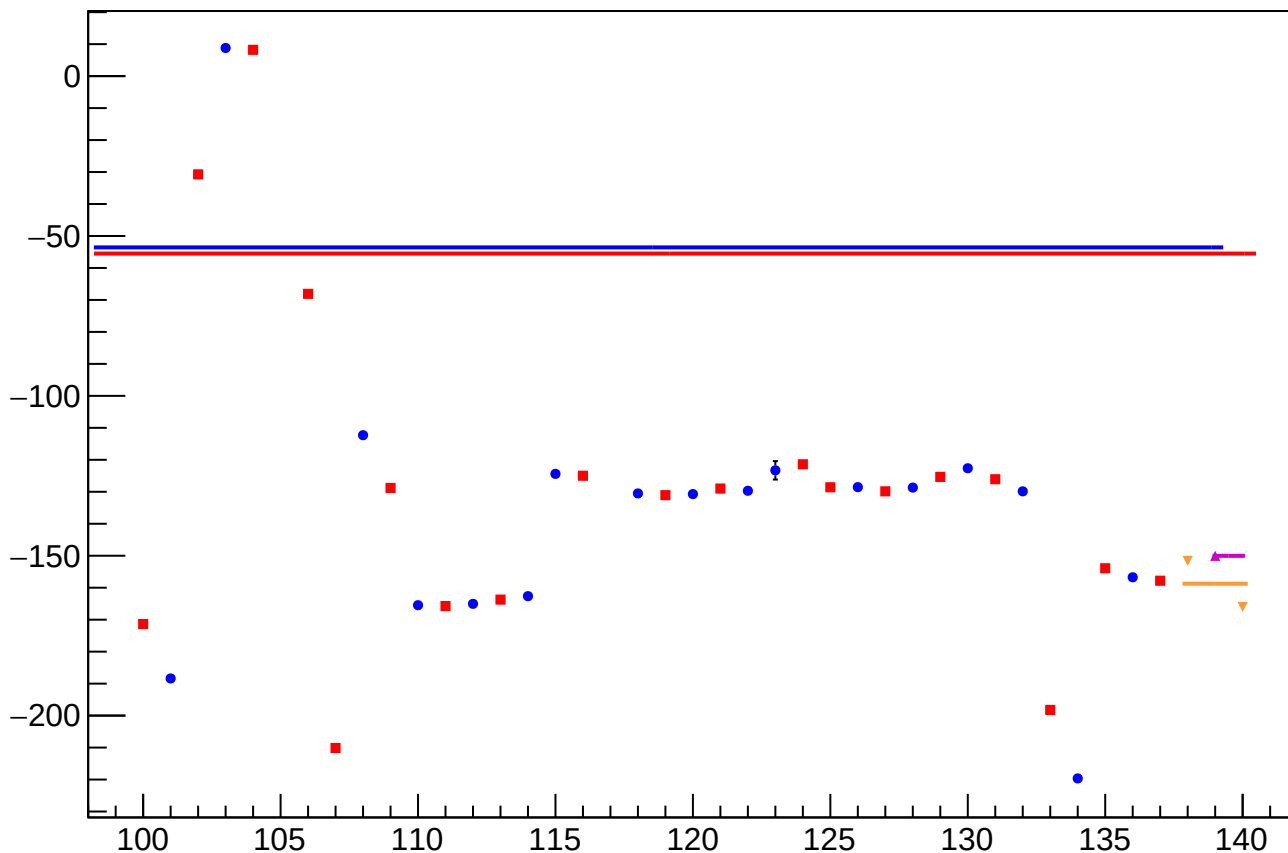
Right: 56.420 $\pm$ 1.174  $\chi^2$ /NDF: 1405.7/35

In: 62.170 $\pm$ 1.651  $\chi^2$ /NDF:724.1/17

Out: 57.467 $\pm$ 1.502  $\chi^2$ /NDF:766.9/20

All: 59.596 $\pm$ 1.111  $\chi^2$ /NDF: 1495.5/38

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: -158.754 $\pm$ 0.158  $\chi^2$ /NDF: 2086.4/1

Right Out: -55.502 $\pm$ 0.072  $\chi^2$ /NDF: 969632.0/18

Left In: -150.034 $\pm$ 0.203  $\chi^2$ /NDF: 0.0/0

Left: -155.477 $\pm$ 0.125  $\chi^2$ /NDF: 3236.9/2

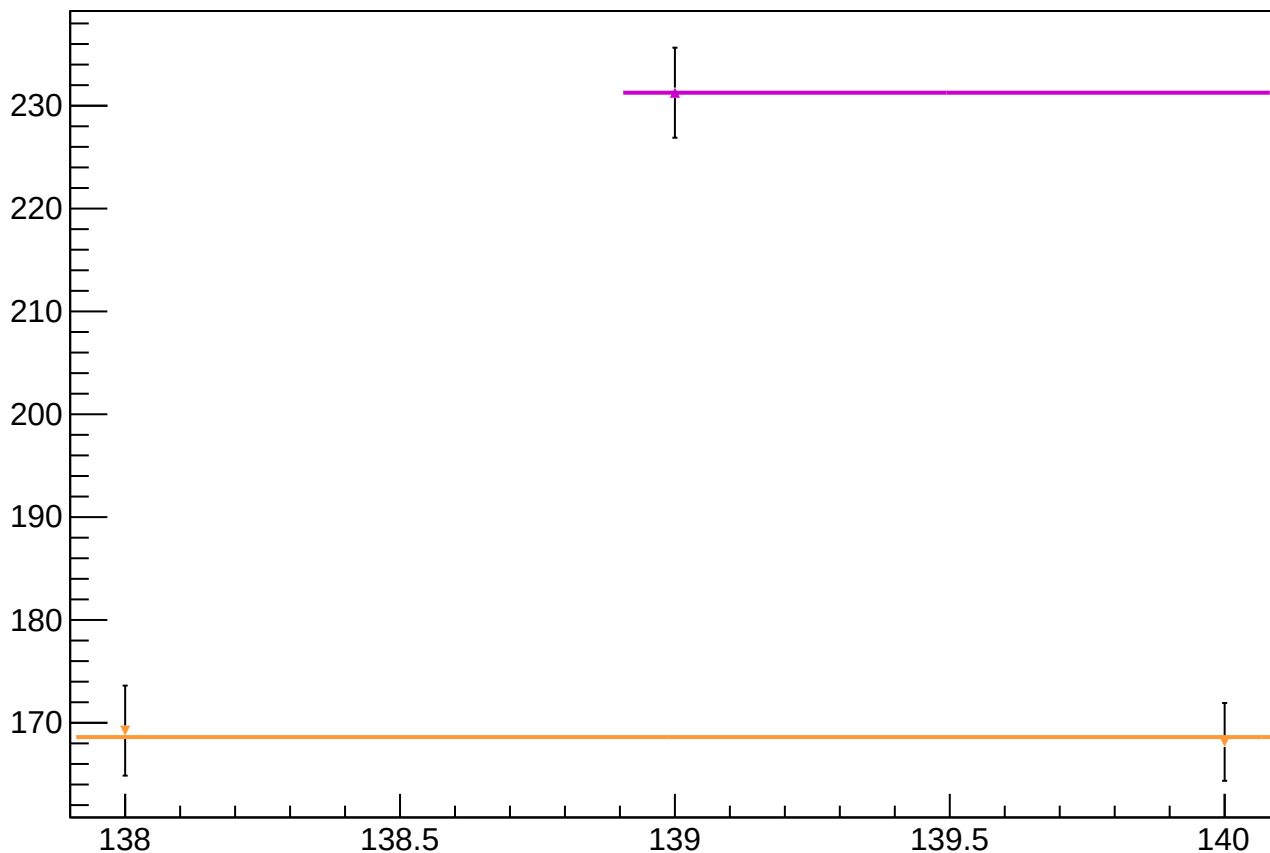
Right: -54.512 $\pm$ 0.050  $\chi^2$ /NDF: 2200235.7/35

In: -63.880 $\pm$ 0.066  $\chi^2$ /NDF: 1431686.1/17

Out: -73.292 $\pm$ 0.065  $\chi^2$ /NDF: 1326970.2/20

All: -68.657 $\pm$ 0.047  $\chi^2$ /NDF: 2768850.5/38

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 168.614 $\pm$ 2.862  $\chi^2/\text{NDF}$ : 0.0/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 231.267 $\pm$ 4.378  $\chi^2/\text{NDF}$ : 0.0/0

Left: 187.368 $\pm$ 2.395  $\chi^2/\text{NDF}$ : 143.5/2

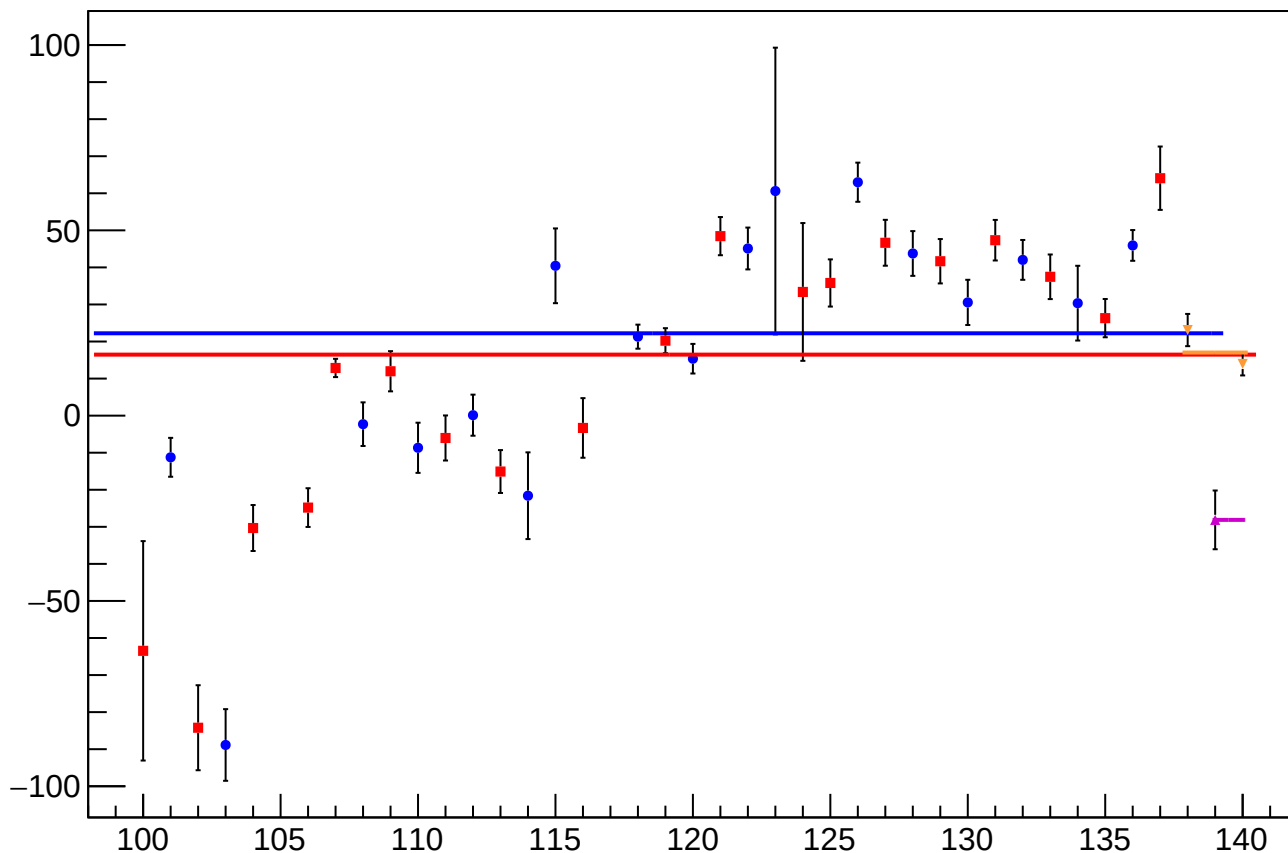
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 231.267 $\pm$ 4.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 168.614 $\pm$ 2.862  $\chi^2/\text{NDF}$ : 0.0/1

All: 187.368 $\pm$ 2.395  $\chi^2/\text{NDF}$ : 143.5/2

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: 17.029 $\pm$ 2.524  $\chi^2$ /NDF: 2.9/1

Right Out: 16.466 $\pm$ 1.230  $\chi^2$ /NDF: 425.9/18

Left In: -28.128 $\pm$ 7.924  $\chi^2$ /NDF: 0.0/0

Left: 12.872 $\pm$ 2.405  $\chi^2$ /NDF: 32.4/2

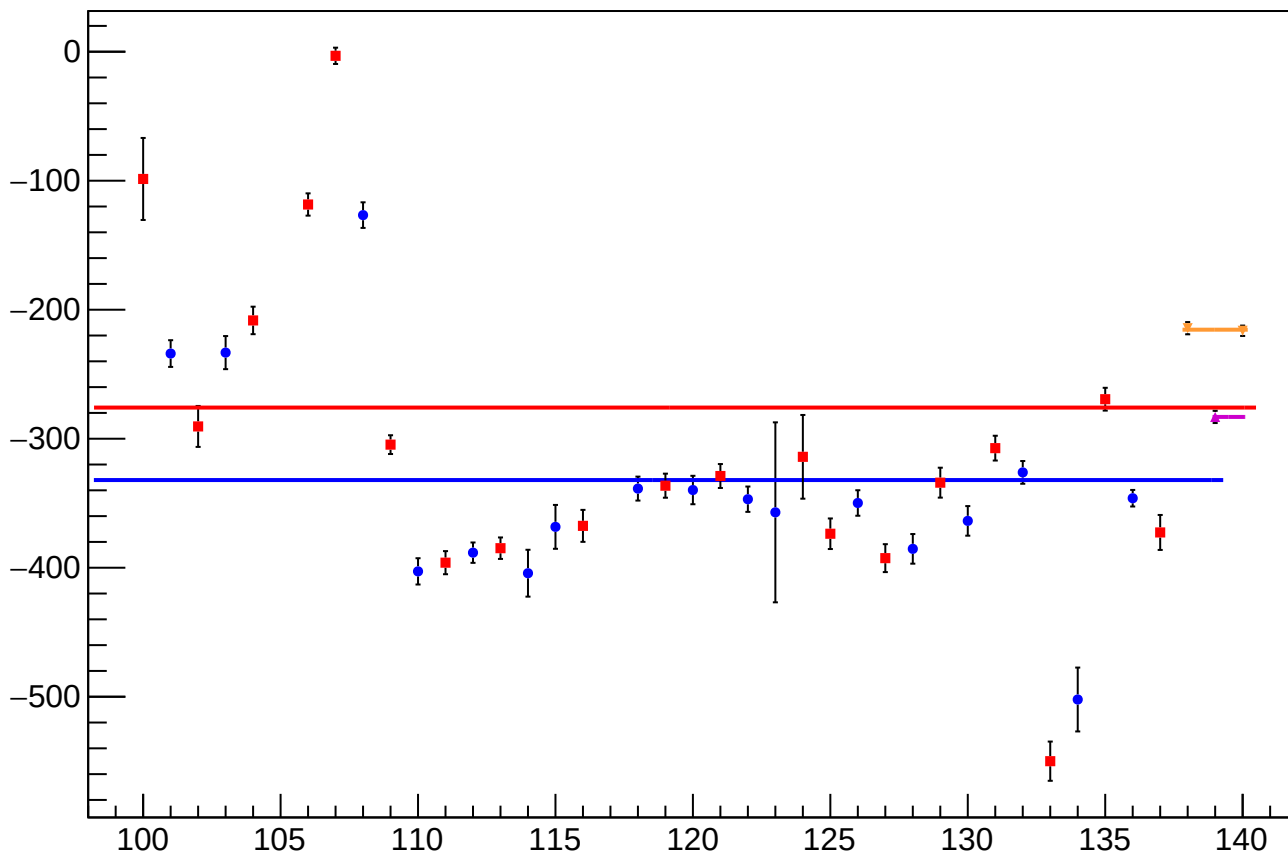
Right: 19.025 $\pm$ 0.916  $\chi^2$ /NDF: 821.2/35

In: 20.752 $\pm$ 1.354  $\chi^2$ /NDF: 424.8/17

Out: 16.574 $\pm$ 1.105  $\chi^2$ /NDF: 428.9/20

All: 18.245 $\pm$ 0.856  $\chi^2$ /NDF: 859.4/38

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -332.037 $\pm$ 2.562  $\chi^2$ /NDF: 784.9/16

Left Out: -215.479 $\pm$ 3.070  $\chi^2$ /NDF:0.1/1

Right Out: -275.853 $\pm$ 2.324  $\chi^2$ /NDF: 3362.8/18

Left In: -283.108 $\pm$ 4.737  $\chi^2$ /NDF:0.0/0

Left: -235.489 $\pm$ 2.576  $\chi^2$ /NDF: 143.6/2

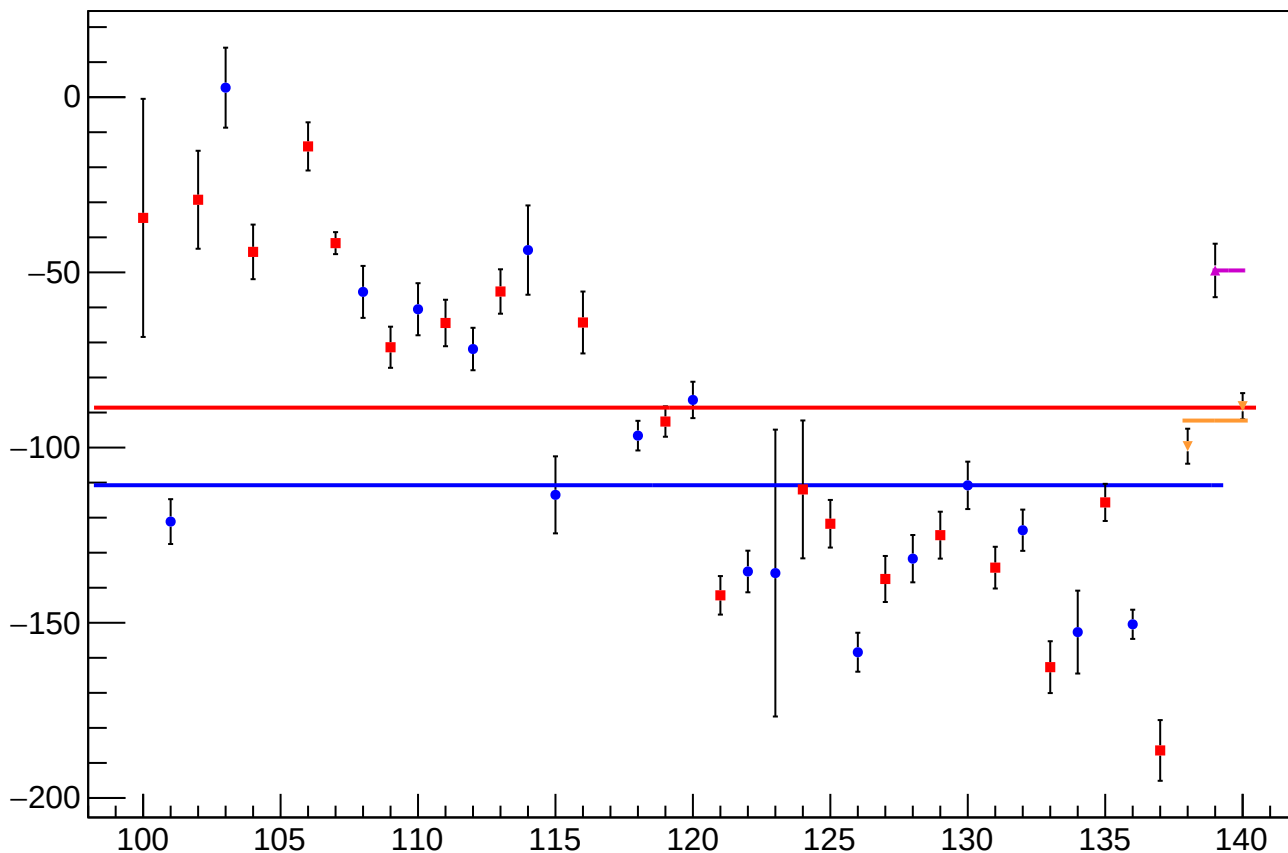
Right: -301.220 $\pm$ 1.721  $\chi^2$ /NDF: 4411.6/35

In: -320.963 $\pm$ 2.253  $\chi^2$ /NDF:867.5/17

Out: -253.858 $\pm$ 1.853  $\chi^2$ /NDF:3608.7/20

All: -280.932 $\pm$ 1.431  $\chi^2$ /NDF: 5005.2/38

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:  $-92.291 \pm 2.993$   $\chi^2/\text{NDF}$ : 3.3/1

Right Out:  $-88.600 \pm 1.435$   $\chi^2/\text{NDF}$ : 969.7/18

Left In:  $-49.448 \pm 7.631$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-86.581 \pm 2.786$   $\chi^2/\text{NDF}$ : 30.7/2

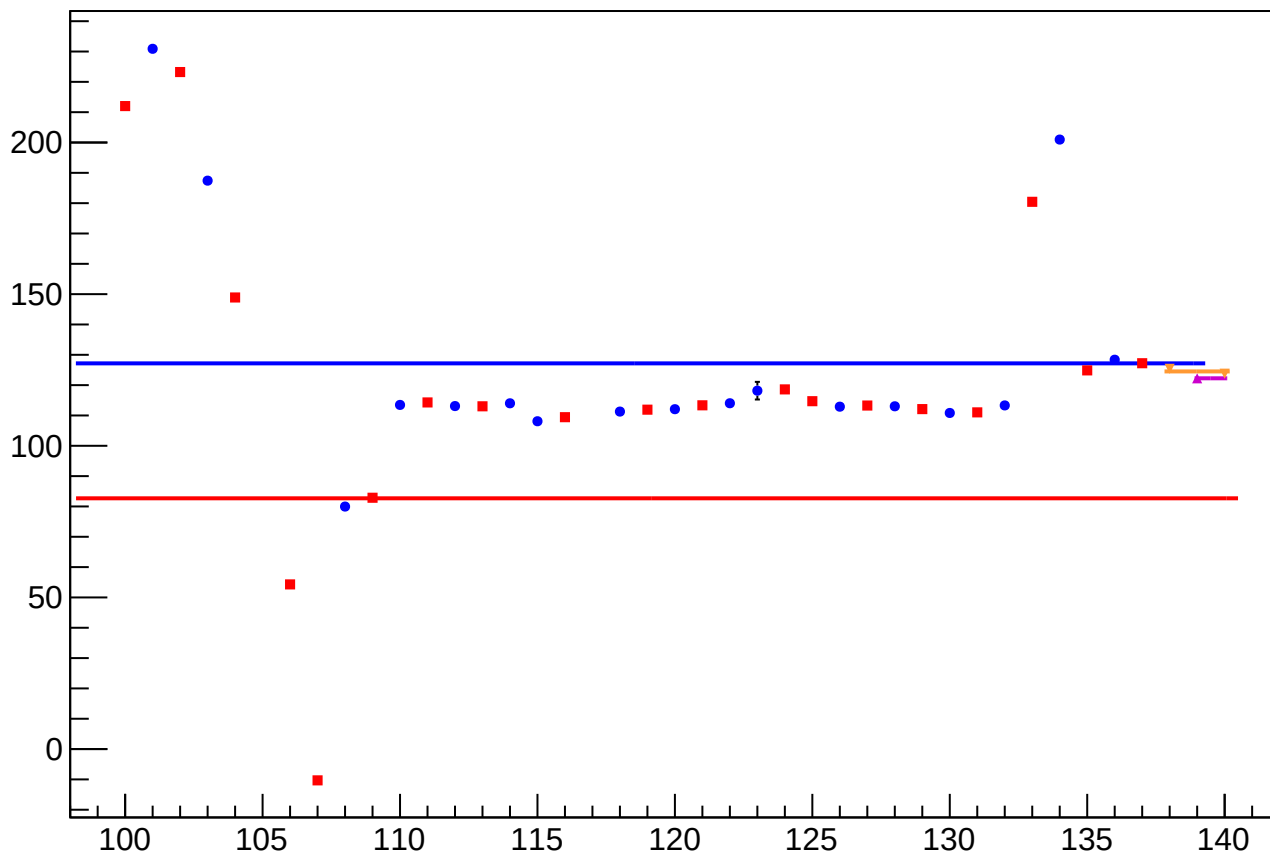
Right:  $-98.623 \pm 1.061$   $\chi^2/\text{NDF}$ : 1591.0/35

In:  $-108.232 \pm 1.545$   $\chi^2/\text{NDF}$ : 575.3/17

Out:  $-89.289 \pm 1.294$   $\chi^2/\text{NDF}$ : 974.3/20

All:  $-97.097 \pm 0.992$   $\chi^2/\text{NDF}$ : 1638.0/38

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: 124.521 $\pm$ 0.128  $\chi^2$ /NDF:38.9/1

Right Out: 82.684 $\pm$ 0.075  $\chi^2$ /NDF: 765716.0/18

Left In: 122.254 $\pm$ 0.168  $\chi^2$ /NDF:0.0/0

Left: 123.684 $\pm$ 0.102  $\chi^2$ /NDF: 154.1/2

Right: 101.242 $\pm$ 0.057  $\chi^2$ /NDF: 1099401.9/35

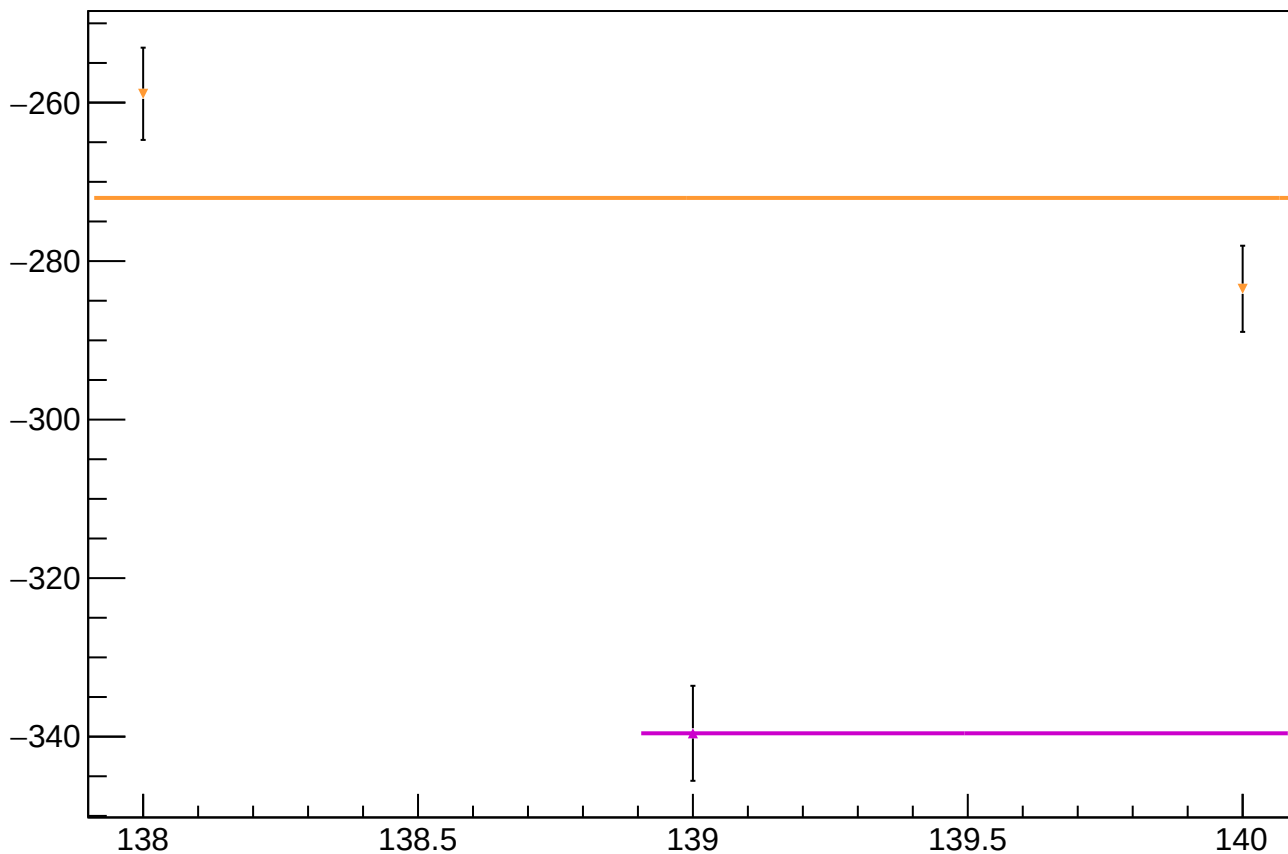
In: 126.097 $\pm$ 0.079  $\chi^2$ /NDF:188723.3/17

Out: 93.385 $\pm$ 0.065  $\chi^2$ /NDF:844719.3/20

All: 106.654 $\pm$ 0.050  $\chi^2$ /NDF: 1136297.1/38



reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -272.030 $\pm$ 3.973  $\chi^2/\text{NDF}$ : 9.5/1

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -339.578 $\pm$ 5.993  $\chi^2/\text{NDF}$ : 0.0/0

Left: -292.651 $\pm$ 3.311  $\chi^2/\text{NDF}$ : 97.8/2

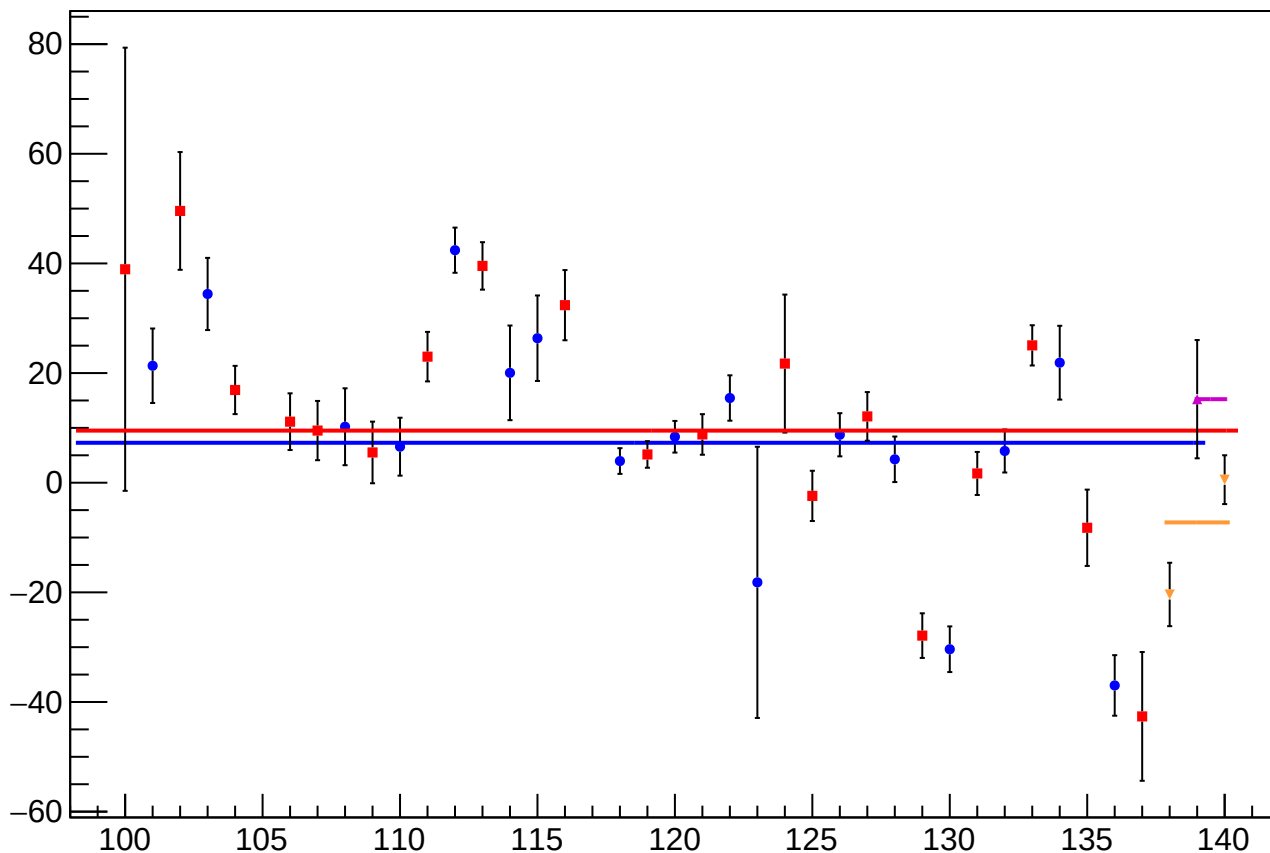
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -339.578 $\pm$ 5.993  $\chi^2/\text{NDF}$ : 0.0/0

Out: -272.030 $\pm$ 3.973  $\chi^2/\text{NDF}$ : 9.5/1

All: -292.651 $\pm$ 3.311  $\chi^2/\text{NDF}$ : 97.8/2

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:  $-7.242 \pm 3.528$   $\chi^2/\text{NDF}$ : 8.2/1

Right Out:  $9.505 \pm 1.074$   $\chi^2/\text{NDF}$ : 231.5/18

Left In:  $15.238 \pm 10.788$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-5.071 \pm 3.353$   $\chi^2/\text{NDF}$ : 12.2/2

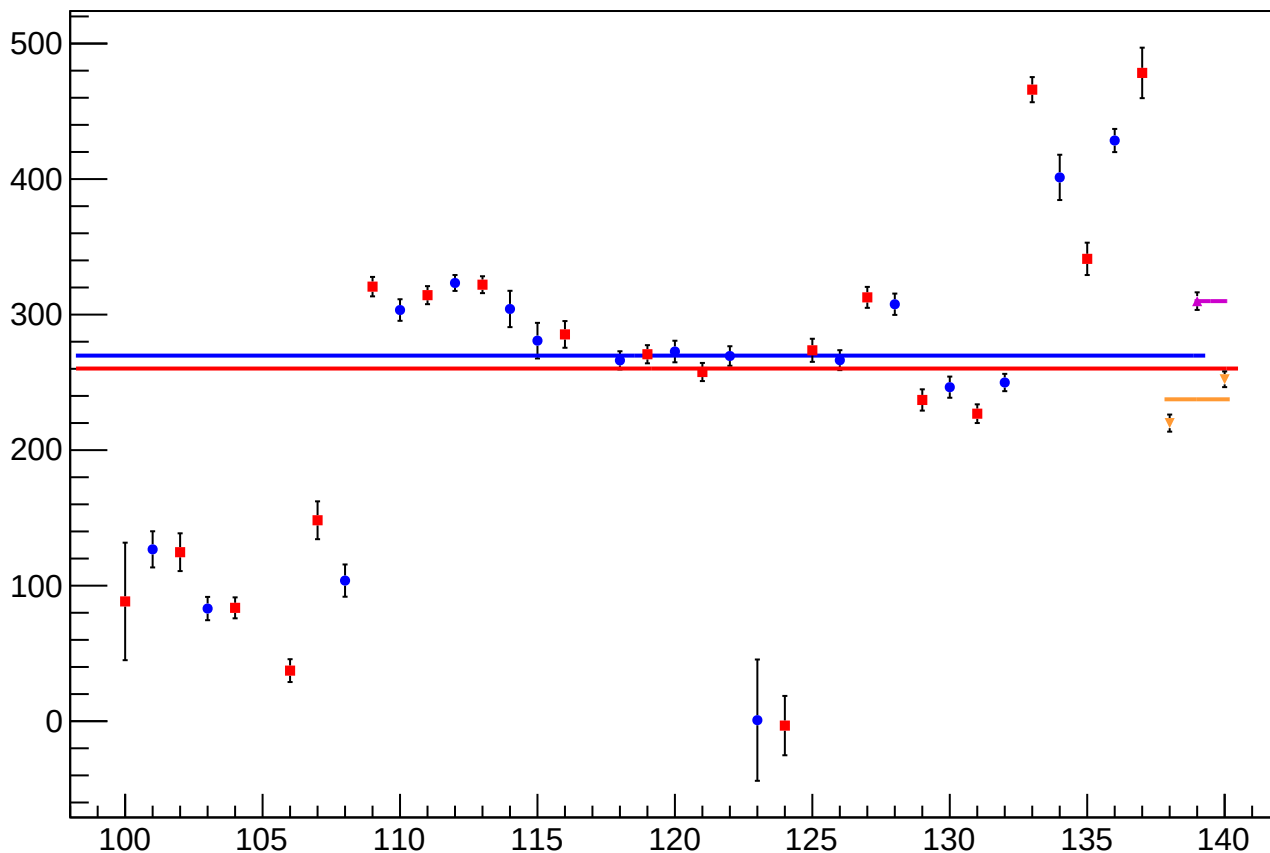
Right:  $8.404 \pm 0.763$   $\chi^2/\text{NDF}$ : 494.7/35

In:  $7.364 \pm 1.078$   $\chi^2/\text{NDF}$ : 261.6/17

Out:  $8.083 \pm 1.028$   $\chi^2/\text{NDF}$ : 260.4/20

All:  $7.741 \pm 0.744$   $\chi^2/\text{NDF}$ : 522.2/38

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: 237.498 $\pm$ 4.265  $\chi^2$ /NDF:14.3/1

Right Out: 260.206 $\pm$ 1.978  $\chi^2$ /NDF: 2541.6/18

Left In: 309.944 $\pm$ 6.490  $\chi^2$ /NDF:0.0/0

Left: 259.347 $\pm$ 3.564  $\chi^2$ /NDF: 101.3/2

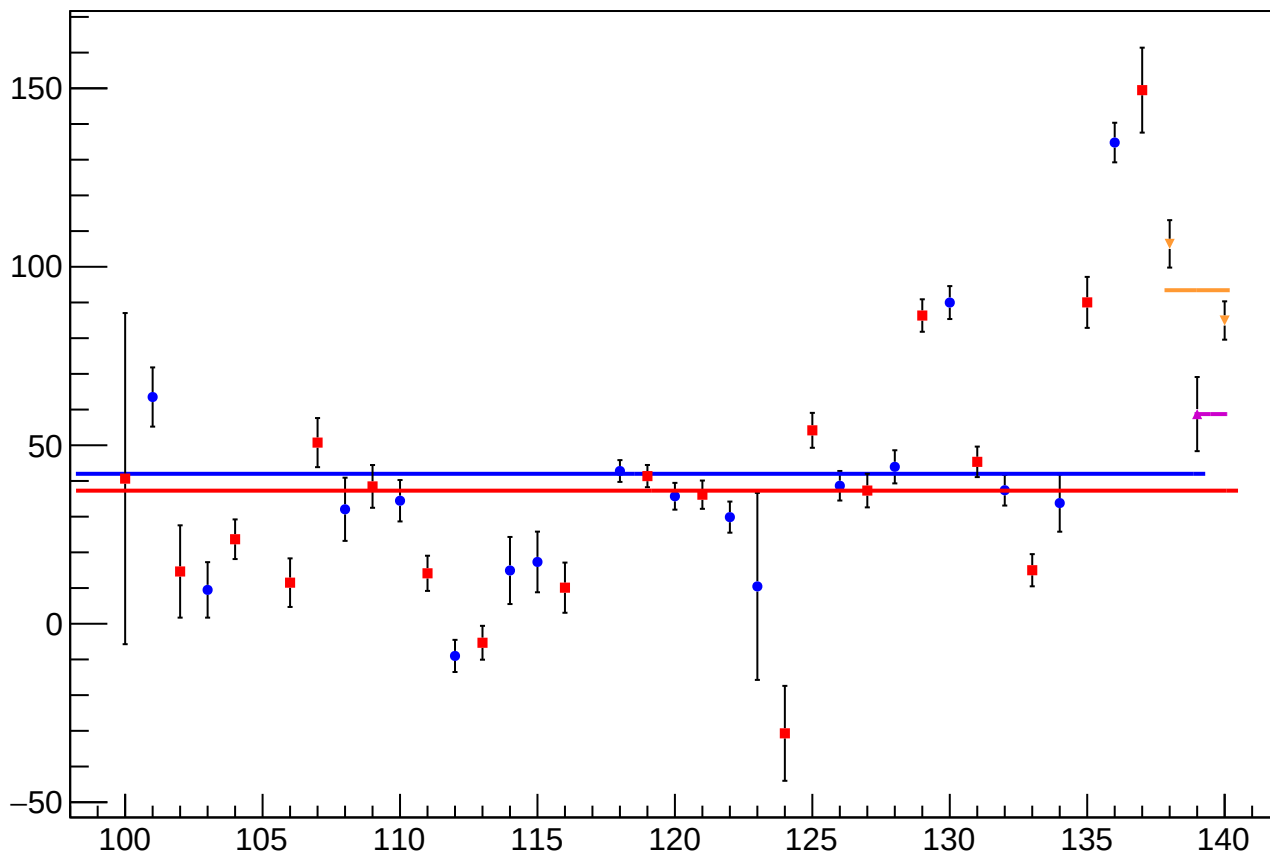
Right: 264.757 $\pm$ 1.430  $\chi^2$ /NDF: 3926.7/35

In: 273.464 $\pm$ 1.973  $\chi^2$ /NDF:1408.9/17

Out: 256.187 $\pm$ 1.794  $\chi^2$ /NDF:2579.2/20

All: 264.006 $\pm$ 1.328  $\chi^2$ /NDF: 4030.0/38

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: 93.437 $\pm$ 4.178  $\chi^2$ /NDF: 6.3/1

Right Out: 37.284 $\pm$ 1.237  $\chi^2$ /NDF: 472.6/18

Left In: 58.735 $\pm$ 10.384  $\chi^2$ /NDF: 0.0/0

Left: 88.602 $\pm$ 3.876  $\chi^2$ /NDF: 15.9/2

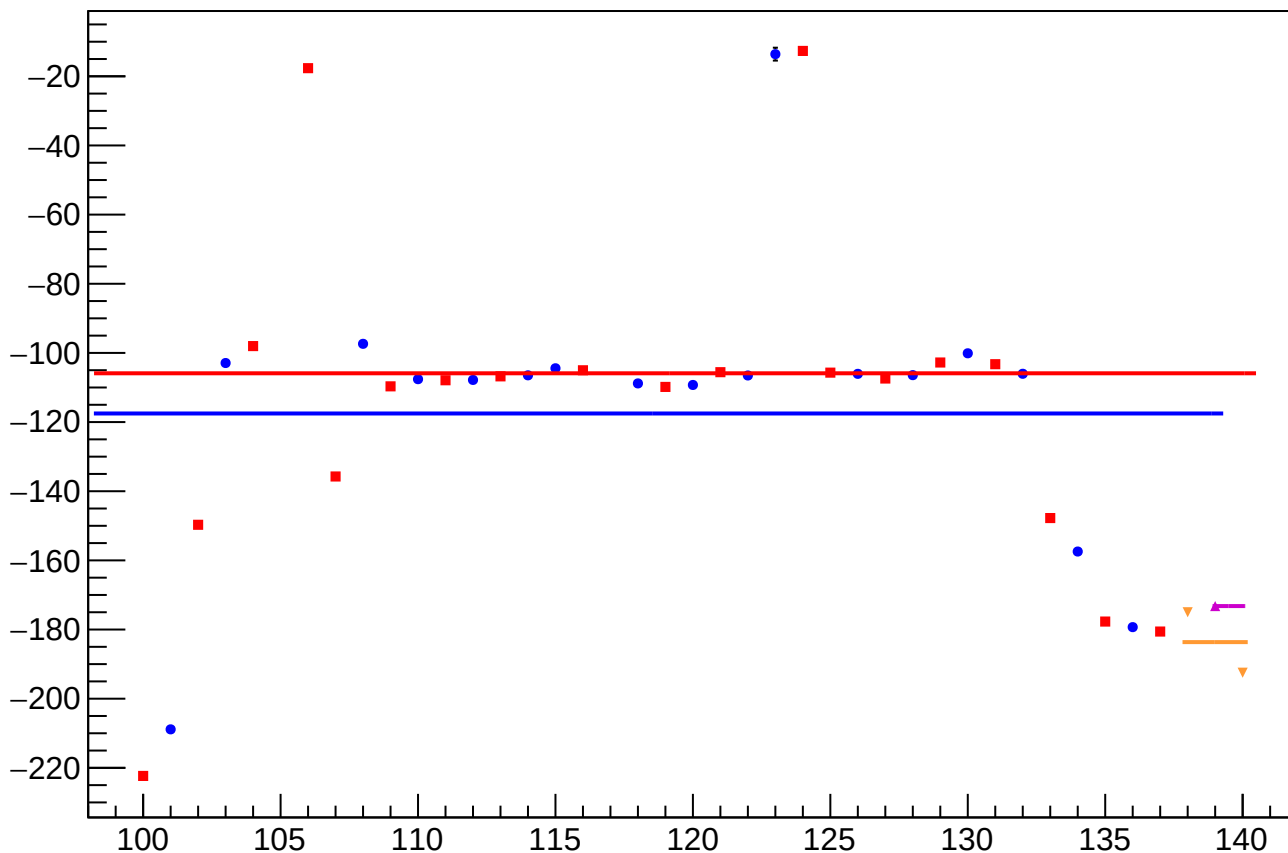
Right: 39.611 $\pm$ 0.881  $\chi^2$ /NDF: 1055.4/35

In: 42.247 $\pm$ 1.246  $\chi^2$ /NDF: 578.1/17

Out: 41.811 $\pm$ 1.186  $\chi^2$ /NDF: 645.0/20

All: 42.018 $\pm$ 0.859  $\chi^2$ /NDF: 1223.2/38

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: -183.636+/-0.178  $\chi^2/\text{NDF}$ : 2410.2/1

Right Out: -105.892+/-0.073  $\chi^2/\text{NDF}$ : 324304.4/18

Left In: -173.214+/-0.228  $\chi^2/\text{NDF}$ : 0.0/0

Left: -179.695+/-0.140  $\chi^2/\text{NDF}$ : 3706.3/2

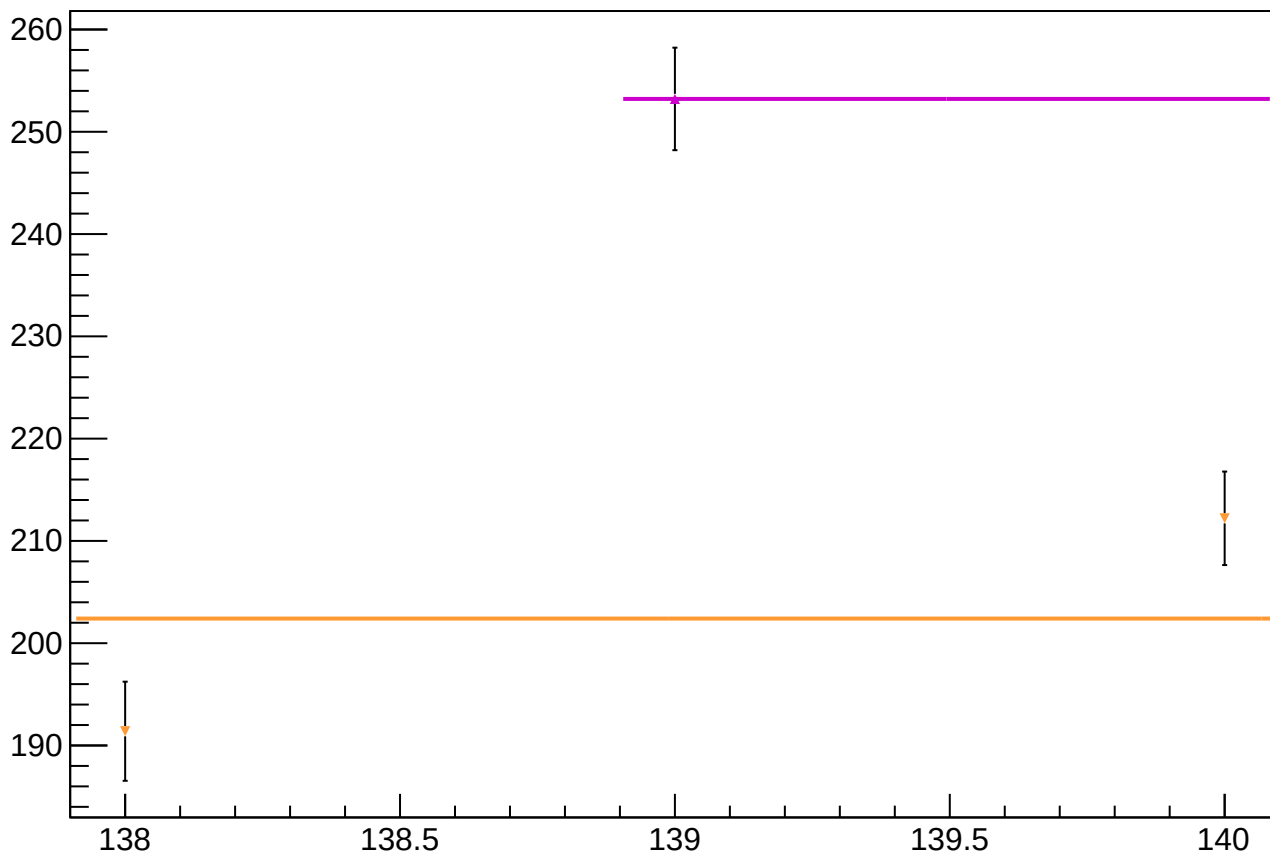
Right: -111.303+/-0.053  $\chi^2/\text{NDF}$ : 478188.8/35

In: -123.339+/-0.074  $\chi^2/\text{NDF}$ : 195324.2/17

Out: -117.030+/-0.067  $\chi^2/\text{NDF}$ : 490103.2/20

All: -119.898+/-0.050  $\chi^2/\text{NDF}$ : 689411.8/38

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: 202.408+/-3.325  $\chi^2/\text{NDF}$ : 9.8/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 253.213+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Left: 217.938+/-2.770  $\chi^2/\text{NDF}$ : 81.1/2

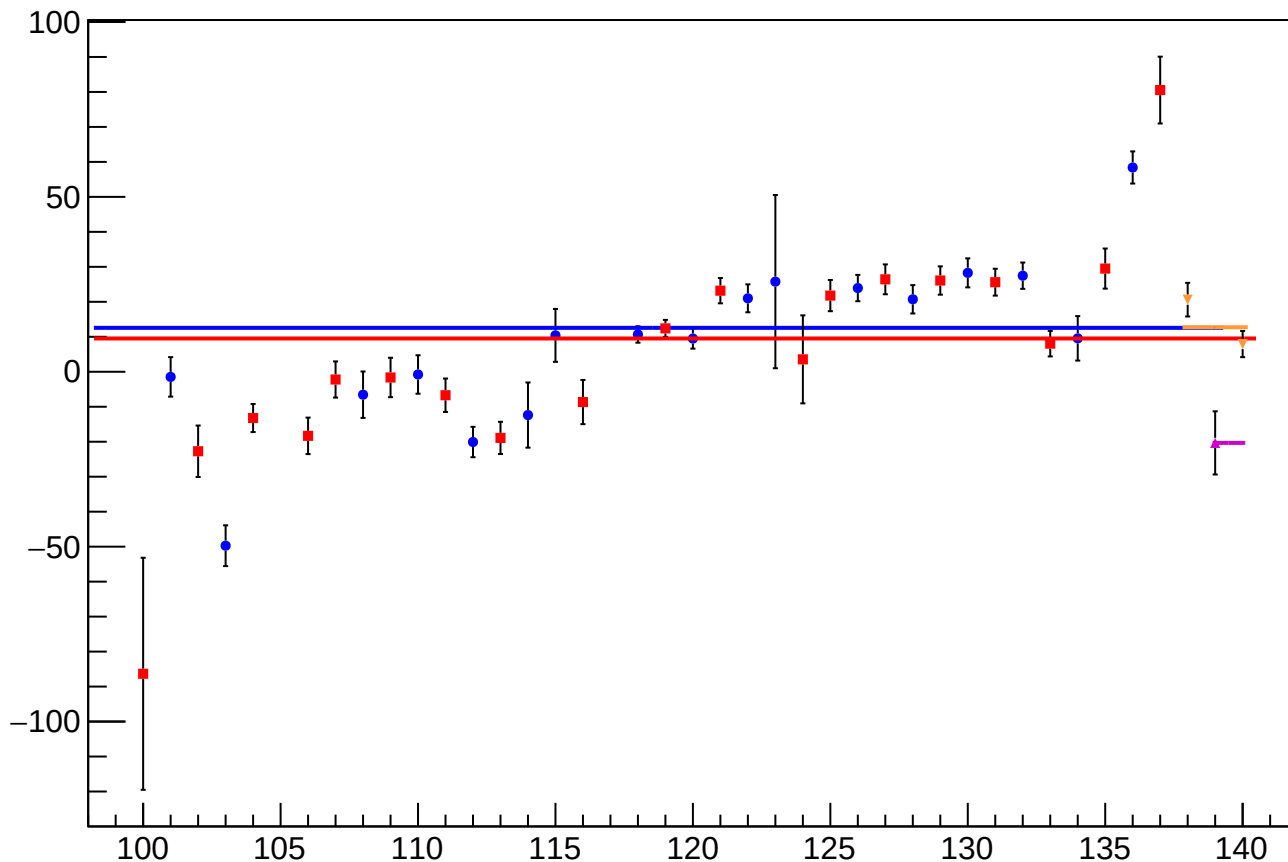
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 253.213+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Out: 202.408+/-3.325  $\chi^2/\text{NDF}$ : 9.8/1

All: 217.938+/-2.770  $\chi^2/\text{NDF}$ : 81.1/2

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.561+/-1.056  $\chi^2$ /NDF: 347.7/16

Left Out: 12.718+/-2.956  $\chi^2$ /NDF: 4.3/1

Right Out: 9.519+/-1.051  $\chi^2$ /NDF: 296.2/18

Left In: -20.332+/-9.033  $\chi^2$ /NDF: 0.0/0

Left: 9.521+/-2.809  $\chi^2$ /NDF: 16.4/2

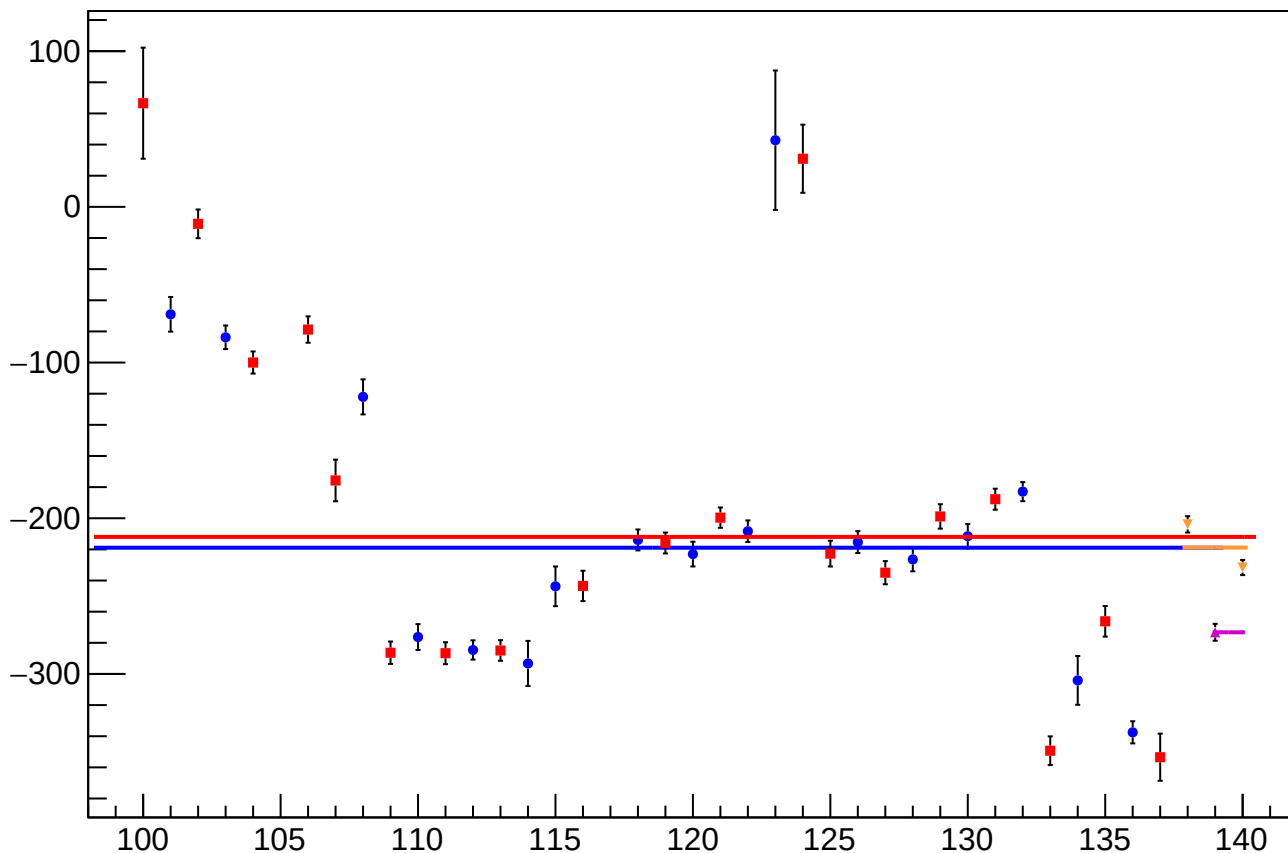
Right: 11.033+/-0.745  $\chi^2$ /NDF: 648.2/35

In: 12.118+/-1.048  $\chi^2$ /NDF: 360.8/17

Out: 9.878+/-0.990  $\chi^2$ /NDF: 301.6/20

All: 10.934+/-0.720  $\chi^2$ /NDF: 664.9/38

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:  $-218.834 \pm 3.570$   $\chi^2/\text{NDF}$ : 15.0/1

Right Out:  $-211.968 \pm 1.924$   $\chi^2/\text{NDF}$ : 1886.2/18

Left In:  $-273.248 \pm 5.425$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-235.274 \pm 2.982$   $\chi^2/\text{NDF}$ : 85.2/2

Right:  $-215.302 \pm 1.389$   $\chi^2/\text{NDF}$ : 3039.1/35

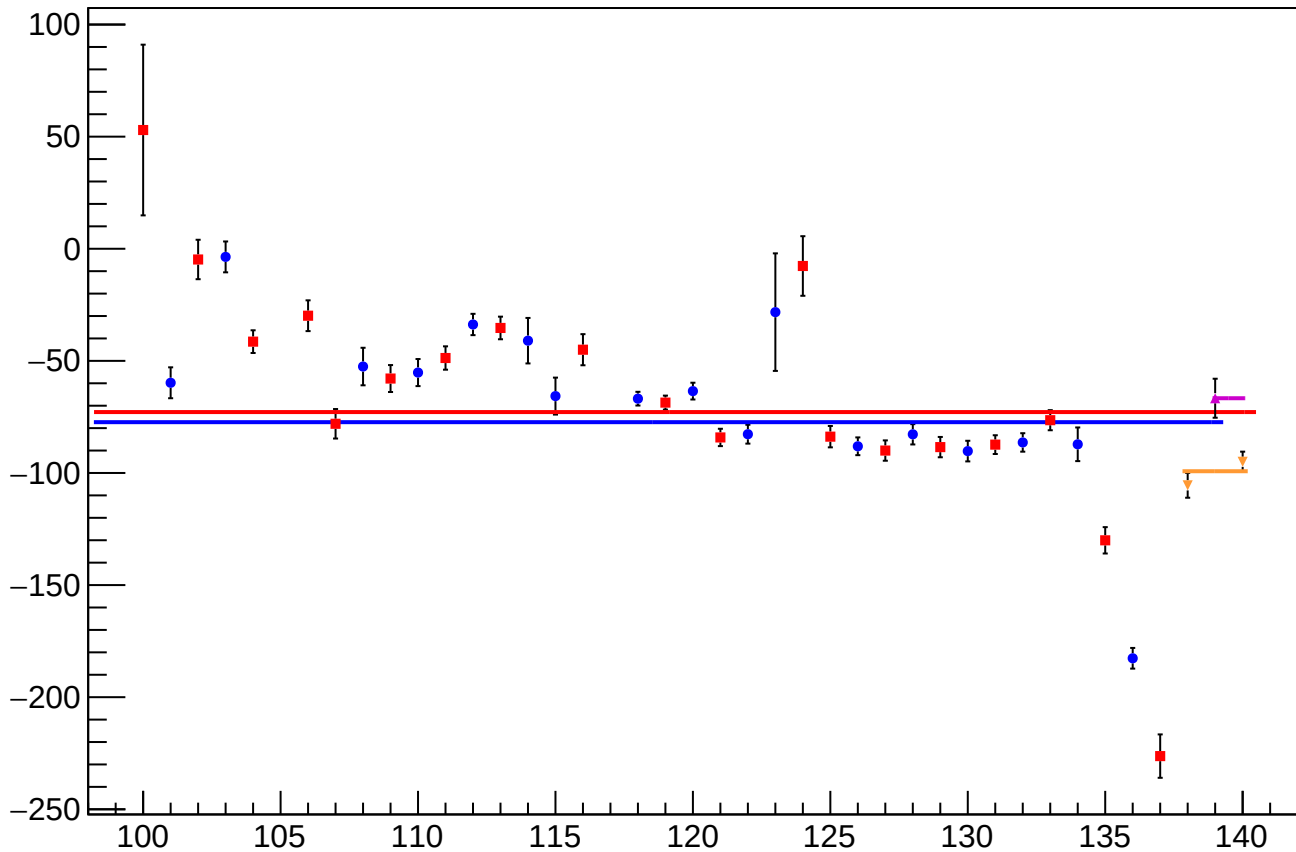
In:  $-225.458 \pm 1.881$   $\chi^2/\text{NDF}$ : 1234.8/17

Out:  $-213.514 \pm 1.694$   $\chi^2/\text{NDF}$ : 1904.1/20

All:  $-218.861 \pm 1.259$   $\chi^2/\text{NDF}$ : 3161.1/38



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:  $-99.223 \pm 3.499$   $\chi^2/\text{NDF}: 2.2/1$

Right Out:  $-72.836 \pm 1.209$   $\chi^2/\text{NDF}: 672.9/18$

Left In:  $-66.666 \pm 8.696$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-94.686 \pm 3.246$   $\chi^2/\text{NDF}: 14.2/2$

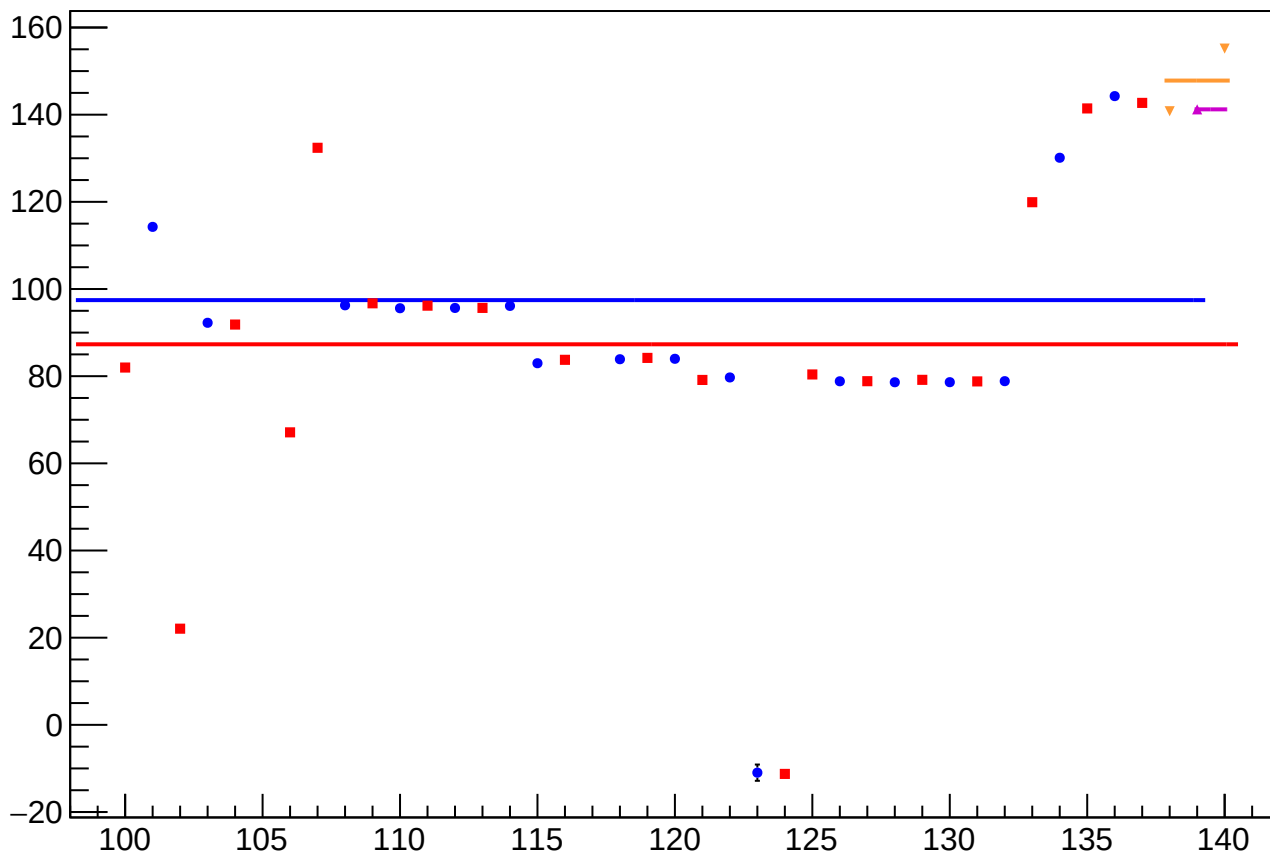
Right:  $-75.069 \pm 0.858$   $\chi^2/\text{NDF}: 1497.0/35$

In:  $-77.136 \pm 1.208$   $\chi^2/\text{NDF}: 818.7/17$

Out:  $-75.648 \pm 1.142$   $\chi^2/\text{NDF}: 725.8/20$

All:  $-76.351 \pm 0.830$   $\chi^2/\text{NDF}: 1545.4/38$

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 97.452+/-0.073  $\chi^2/\text{NDF}$ : 94476.4/16

Left Out: 147.826+/-0.149  $\chi^2/\text{NDF}$ : 2328.5/1

Right Out: 87.315+/-0.068  $\chi^2/\text{NDF}$ : 221837.7/18

Left In: 141.220+/-0.191  $\chi^2/\text{NDF}$ : 0.0/0

Left: 145.332+/-0.117  $\chi^2/\text{NDF}$ : 3071.7/2

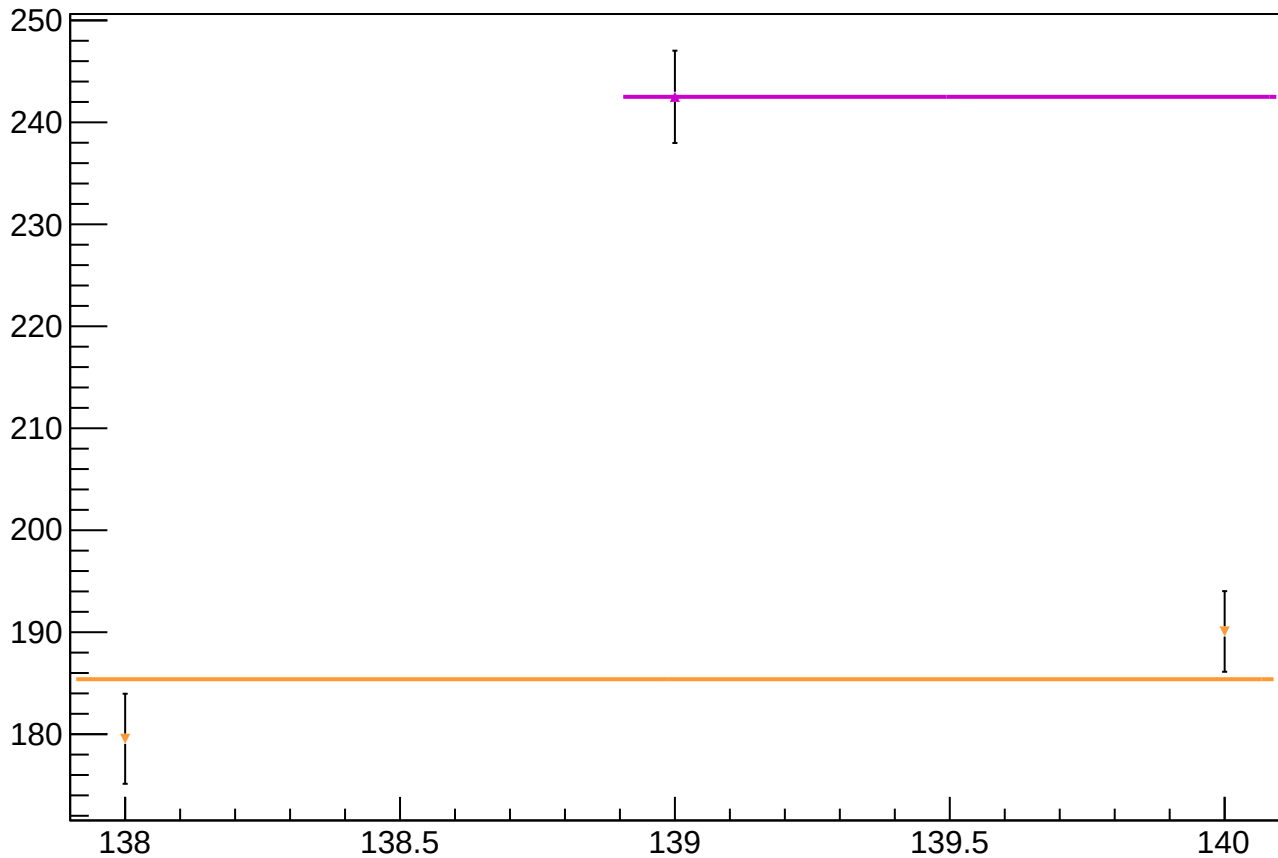
Right: 92.024+/-0.050  $\chi^2/\text{NDF}$ : 326563.7/35

In: 103.058+/-0.068  $\chi^2/\text{NDF}$ : 140188.3/17

Out: 97.818+/-0.062  $\chi^2/\text{NDF}$ : 360645.7/20

All: 100.182+/-0.046  $\chi^2/\text{NDF}$ : 504052.9/38

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: 185.393+/-2.946  $\chi^2/\text{NDF}$ : 3.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 242.503+/-4.526  $\chi^2/\text{NDF}$ : 0.0/0

Left: 202.384+/-2.469  $\chi^2/\text{NDF}$ : 115.0/2

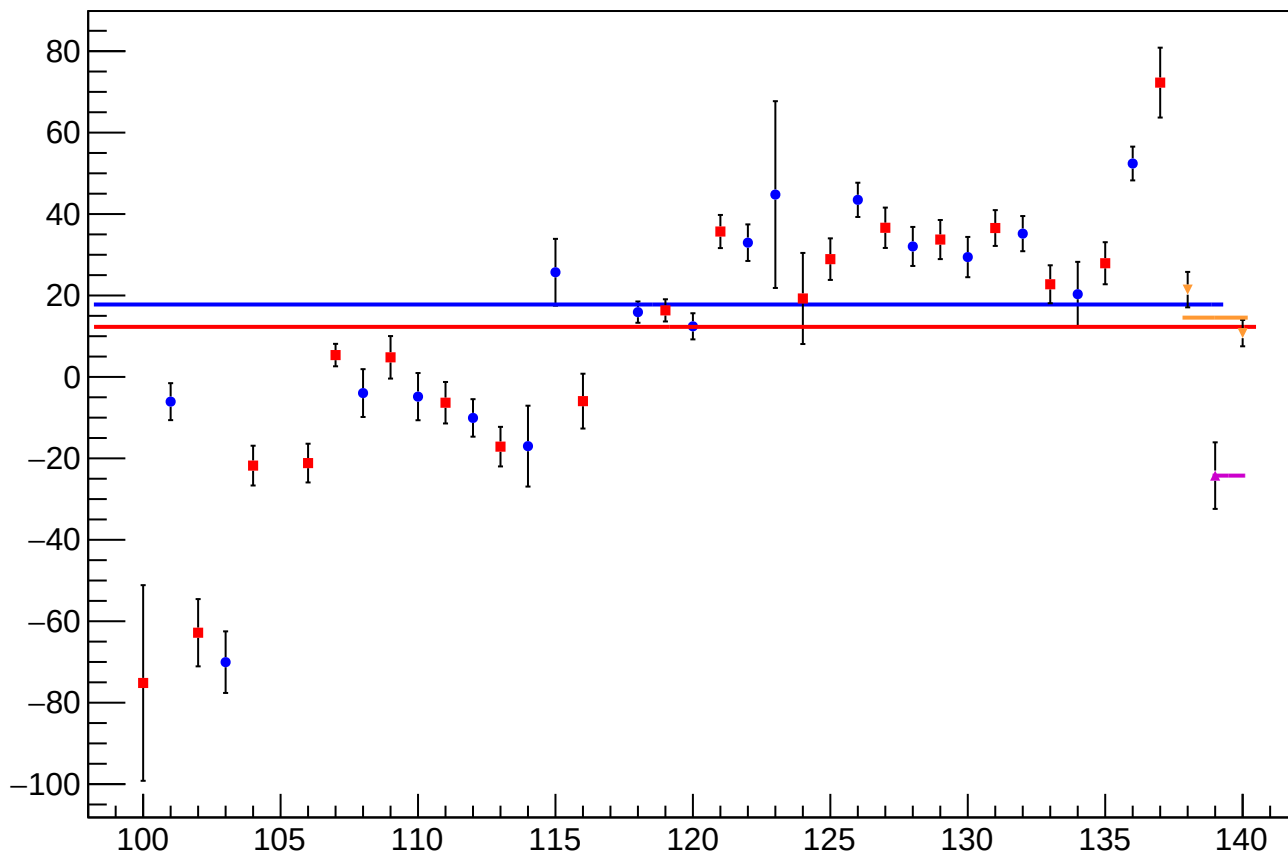
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.503+/-4.526  $\chi^2/\text{NDF}$ : 0.0/0

Out: 185.393+/-2.946  $\chi^2/\text{NDF}$ : 3.2/1

All: 202.384+/-2.469  $\chi^2/\text{NDF}$ : 115.0/2

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: 14.563 $\pm$ 2.598  $\chi^2$ /NDF:3.9/1

Right Out: 12.294 $\pm$ 1.086  $\chi^2$ /NDF: 443.7/18

Left In: -24.236 $\pm$ 8.174  $\chi^2$ /NDF:0.0/0

Left: 11.002 $\pm$ 2.476  $\chi^2$ /NDF: 24.3/2

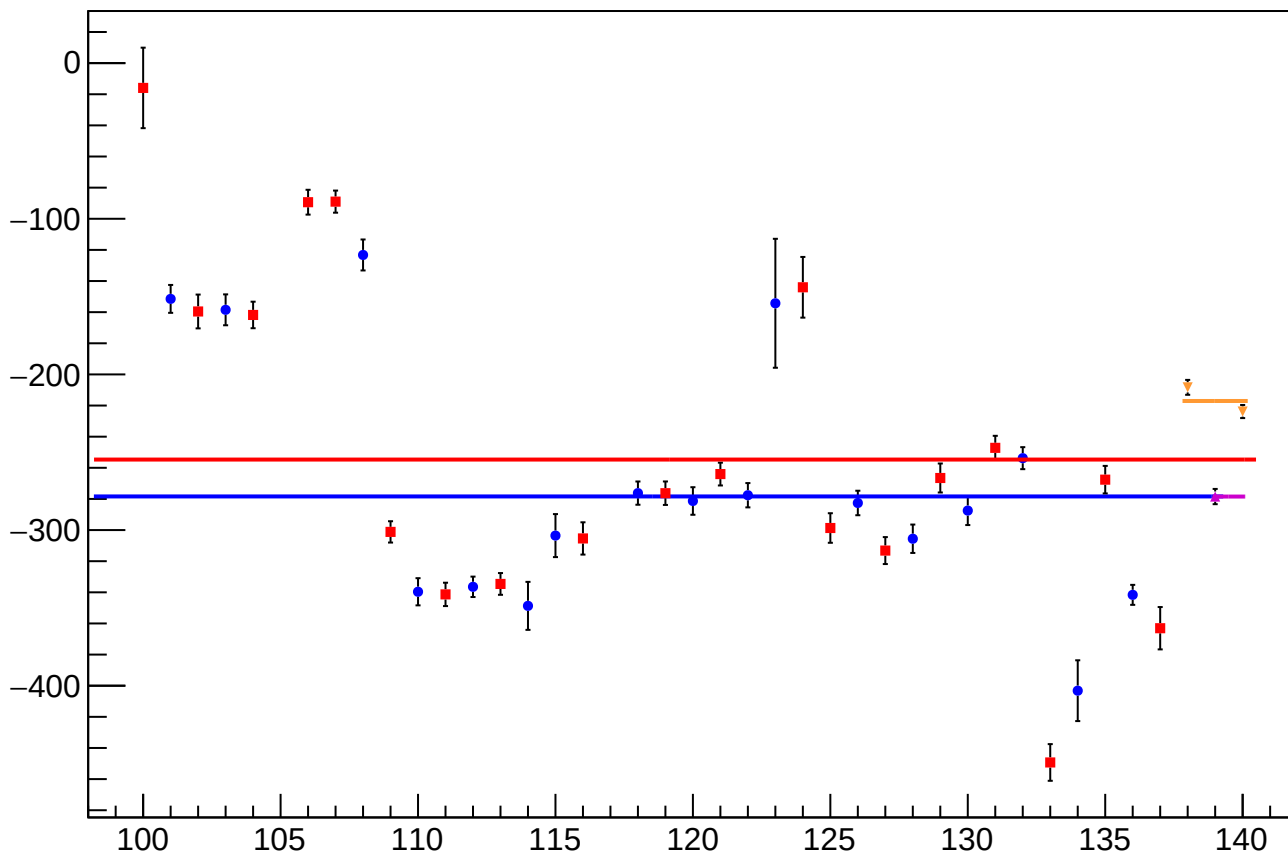
Right: 14.891 $\pm$ 0.788  $\chi^2$ /NDF: 850.9/35

In: 16.976 $\pm$ 1.135  $\chi^2$ /NDF:421.0/17

Out: 12.631 $\pm$ 1.002  $\chi^2$ /NDF:448.2/20

All: 14.533 $\pm$ 0.751  $\chi^2$ /NDF: 877.5/38

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -278.393+/-2.168  $\chi^2/\text{NDF}$ : 910.5/16

Left Out: -217.067+/-3.161  $\chi^2/\text{NDF}$ :5.9/1

Right Out: -254.703+/-2.020  $\chi^2/\text{NDF}$ : 2038.5/18

Left In: -278.471+/-4.899  $\chi^2/\text{NDF}$ :0.0/0

Left: -235.118+/-2.656  $\chi^2/\text{NDF}$ : 116.8/2

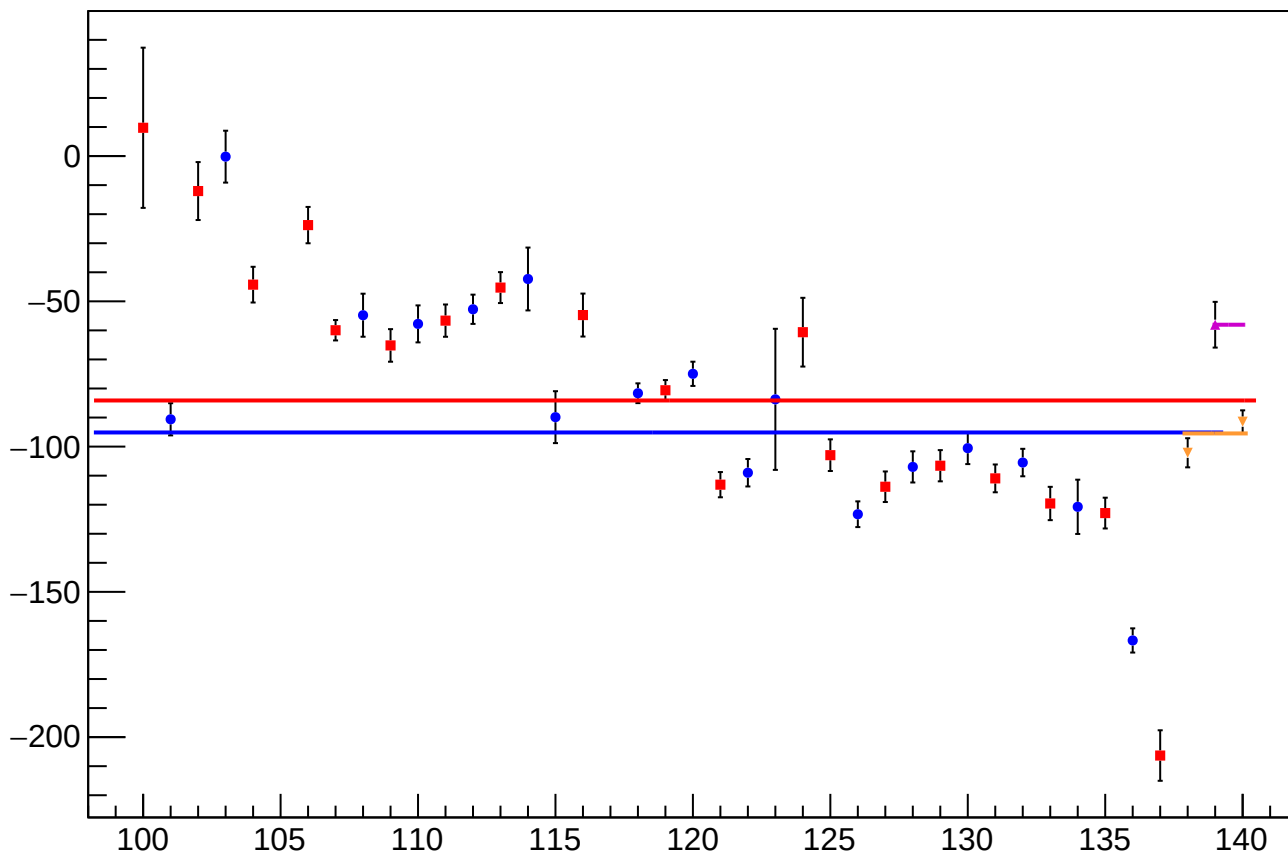
Right: -265.715+/-1.478  $\chi^2/\text{NDF}$ : 3013.0/35

In: -278.406+/-1.982  $\chi^2/\text{NDF}$ :910.5/17

Out: -243.791+/-1.702  $\chi^2/\text{NDF}$ :2145.1/20

All: -258.483+/-1.291  $\chi^2/\text{NDF}$ : 3231.1/38

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:  $-95.472 \pm 3.082$   $\chi^2/\text{NDF}: 2.8/1$

Right Out:  $-84.124 \pm 1.259$   $\chi^2/\text{NDF}: 782.9/18$

Left In:  $-58.051 \pm 7.870$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-90.497 \pm 2.869$   $\chi^2/\text{NDF}: 22.4/2$

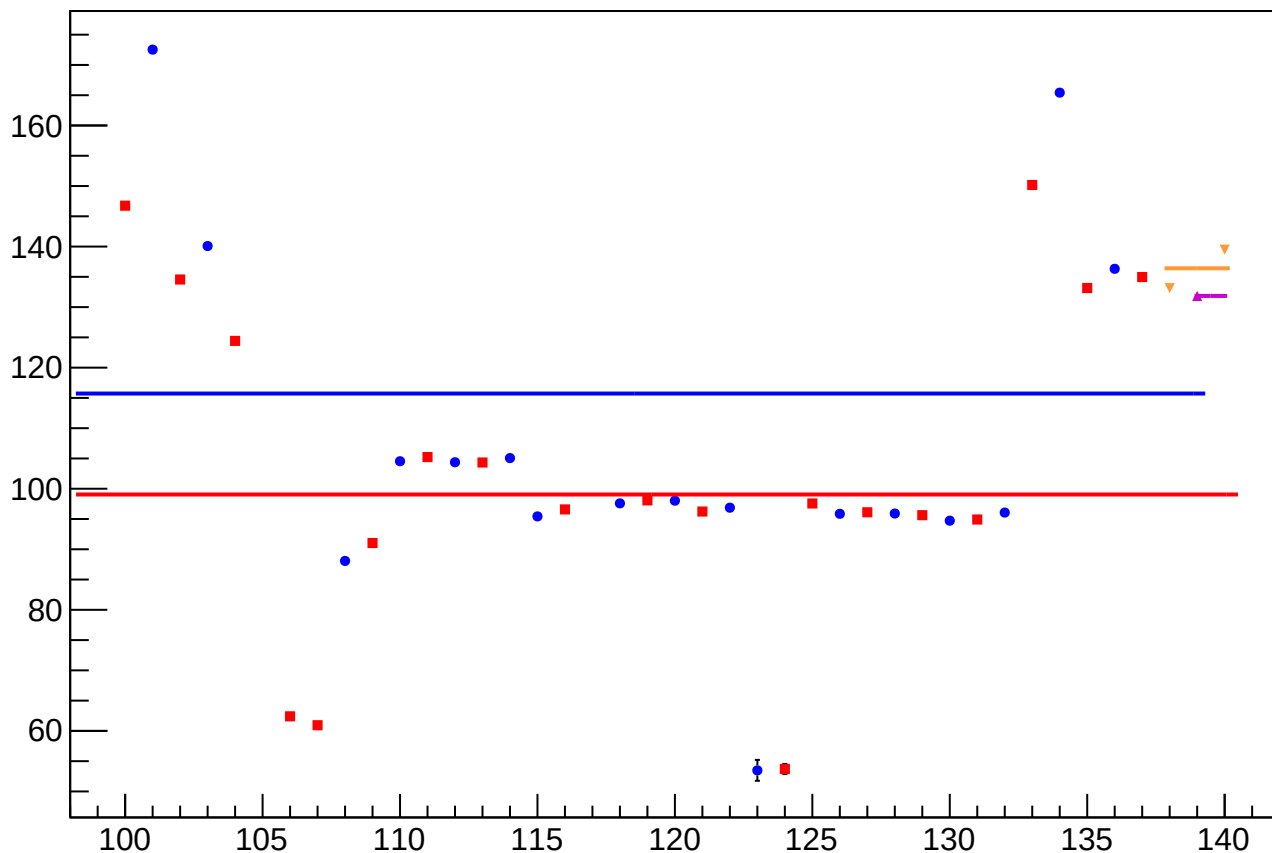
Right:  $-89.357 \pm 0.912$   $\chi^2/\text{NDF}: 1494.2/35$

In:  $-94.116 \pm 1.304$   $\chi^2/\text{NDF}: 696.5/17$

Out:  $-85.746 \pm 1.165$   $\chi^2/\text{NDF}: 797.3/20$

All:  $-89.462 \pm 0.869$   $\chi^2/\text{NDF}: 1516.7/38$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 115.724+/-0.078  $\chi^2/\text{NDF}$ : 106388.1/16

Left Out: 136.414+/-0.132  $\chi^2/\text{NDF}$ : 576.6/1

Right Out: 99.049+/-0.069  $\chi^2/\text{NDF}$ : 173463.3/18

Left In: 131.848+/-0.173  $\chi^2/\text{NDF}$ : 0.0/0

Left: 134.729+/-0.105  $\chi^2/\text{NDF}$ : 1015.9/2

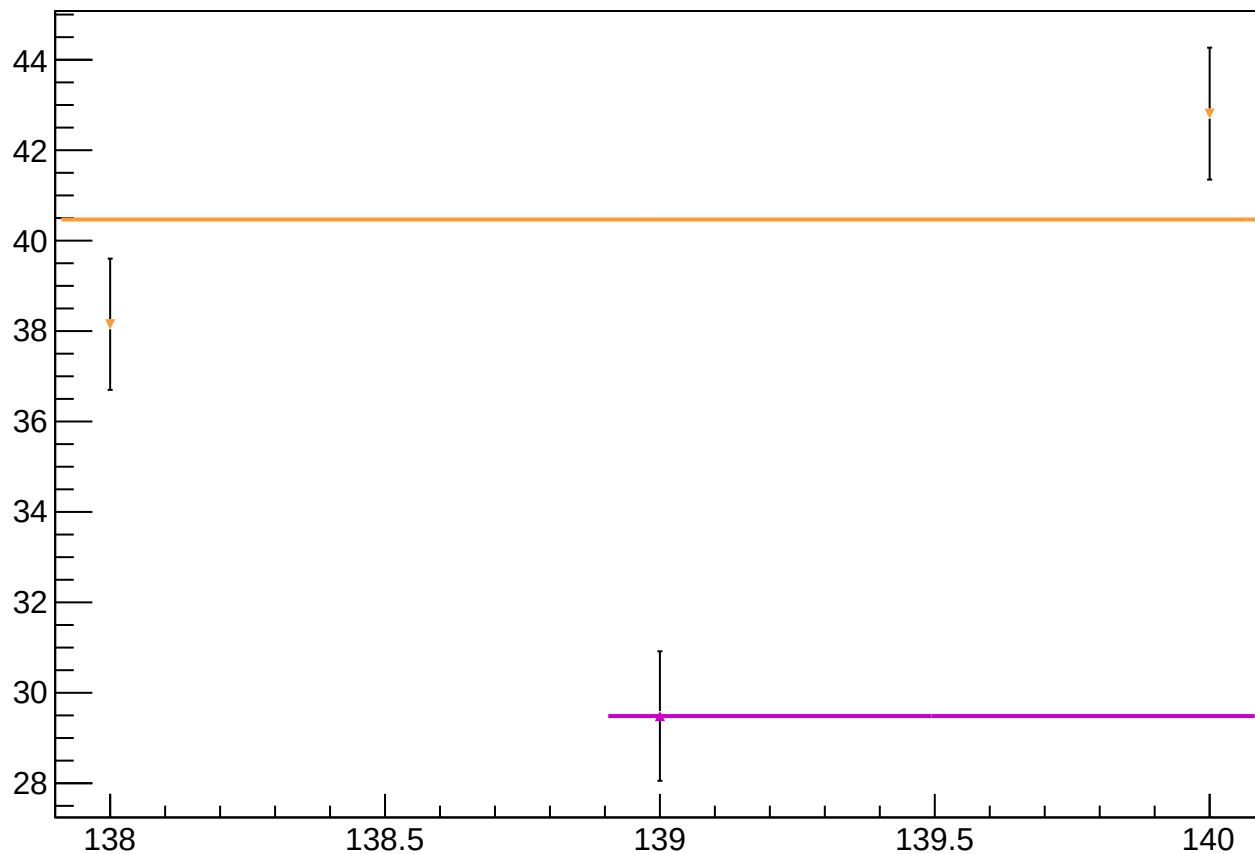
Right: 106.312+/-0.051  $\chi^2/\text{NDF}$ : 305658.4/35

In: 118.446+/-0.071  $\chi^2/\text{NDF}$ : 113605.8/17

Out: 106.949+/-0.061  $\chi^2/\text{NDF}$ : 236938.0/20

All: 111.808+/-0.046  $\chi^2/\text{NDF}$ : 365641.0/38

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: 40.468+/-1.029  $\chi^2/\text{NDF}$ : 5.1/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 29.486+/-1.432  $\chi^2/\text{NDF}$ : 0.0/0

Left: 36.729+/-0.836  $\chi^2/\text{NDF}$ : 43.9/2

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

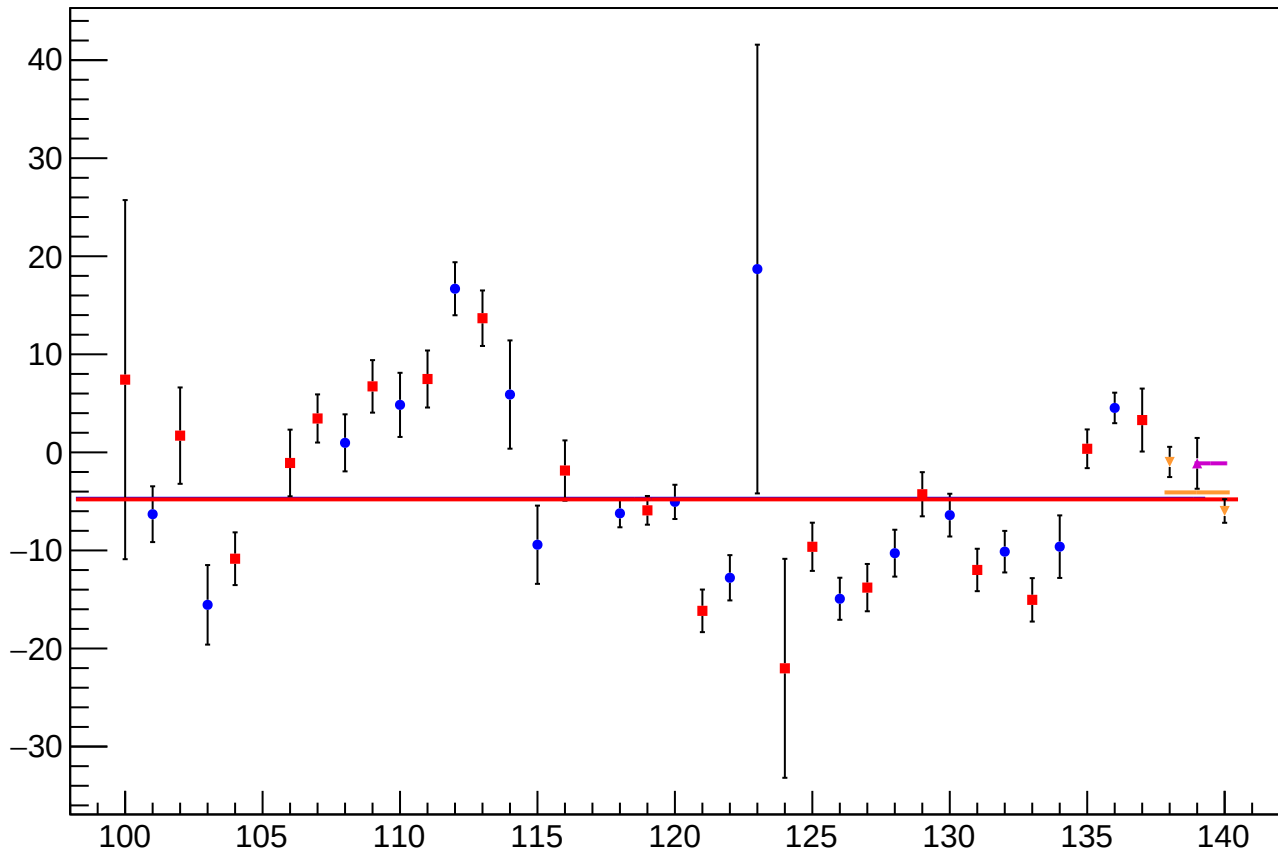
In: 29.486+/-1.432  $\chi^2/\text{NDF}$ : 0.0/0

Out: 40.468+/-1.029  $\chi^2/\text{NDF}$ : 5.1/1

All: 36.729+/-0.836  $\chi^2/\text{NDF}$ : 43.9/2



reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-4.730 \pm 0.580$   $\chi^2/\text{NDF}$ : 174.8/16

Left Out:  $-4.082 \pm 0.949$   $\chi^2/\text{NDF}$ : 6.5/1

Right Out:  $-4.793 \pm 0.586$   $\chi^2/\text{NDF}$ : 193.5/18

Left In:  $-1.119 \pm 2.590$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-3.731 \pm 0.891$   $\chi^2/\text{NDF}$ : 7.7/2

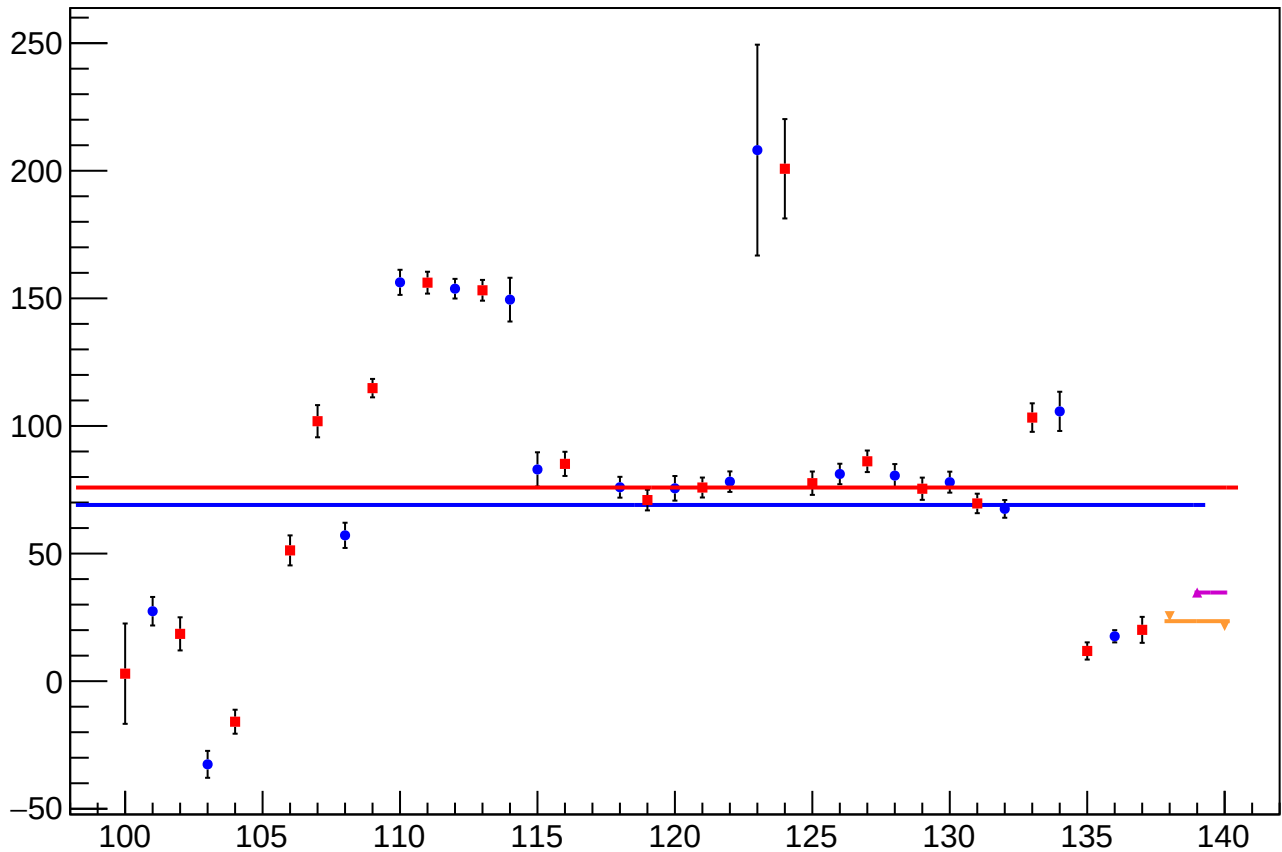
Right:  $-4.761 \pm 0.412$   $\chi^2/\text{NDF}$ : 368.3/35

In:  $-4.558 \pm 0.566$   $\chi^2/\text{NDF}$ : 176.7/17

Out:  $-4.597 \pm 0.498$   $\chi^2/\text{NDF}$ : 200.4/20

All:  $-4.580 \pm 0.374$   $\chi^2/\text{NDF}$ : 377.1/38

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 69.048 $\pm$ 1.077  $\chi^2$ /NDF: 1847.9/16

Left Out: 23.516 $\pm$ 1.106  $\chi^2$ /NDF:3.0/1

Right Out: 75.878 $\pm$ 1.069  $\chi^2$ /NDF: 1895.0/18

Left In: 34.736 $\pm$ 1.550  $\chi^2$ /NDF:0.0/0

Left: 27.303 $\pm$ 0.900  $\chi^2$ /NDF: 37.7/2

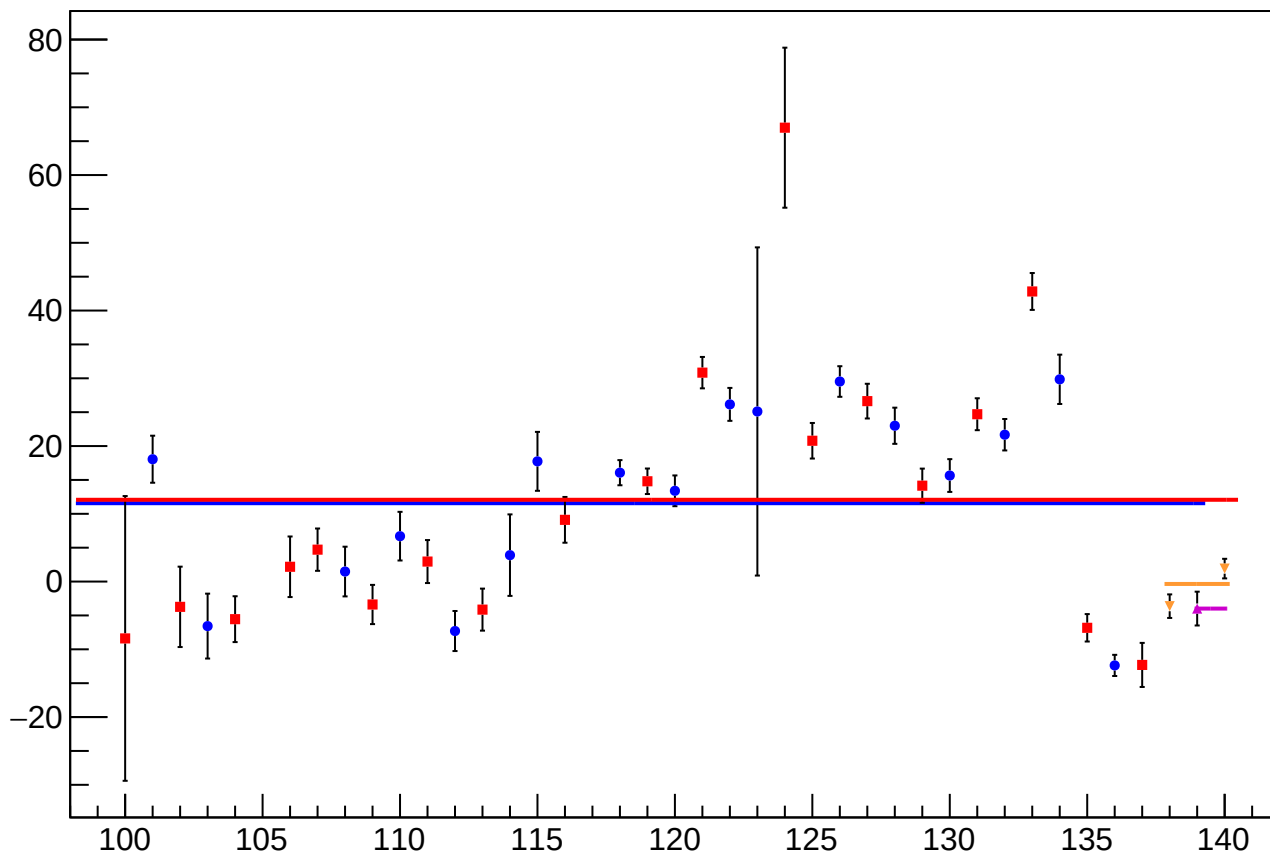
Right: 72.486 $\pm$ 0.759  $\chi^2$ /NDF: 3763.1/35

In: 57.878 $\pm$ 0.884  $\chi^2$ /NDF:2178.5/17

Out: 50.576 $\pm$ 0.769  $\chi^2$ /NDF:3056.3/20

All: 53.720 $\pm$ 0.580  $\chi^2$ /NDF: 5273.6/38

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.565 $\pm$ 0.658  $\chi^2$ /NDF: 478.2/16

Left Out: -0.353 $\pm$ 1.111  $\chi^2$ /NDF:6.0/1

Right Out: 12.071 $\pm$ 0.665  $\chi^2$ /NDF: 543.3/18

Left In: -3.988 $\pm$ 2.495  $\chi^2$ /NDF:0.0/0

Left: -0.955 $\pm$ 1.015  $\chi^2$ /NDF: 7.8/2

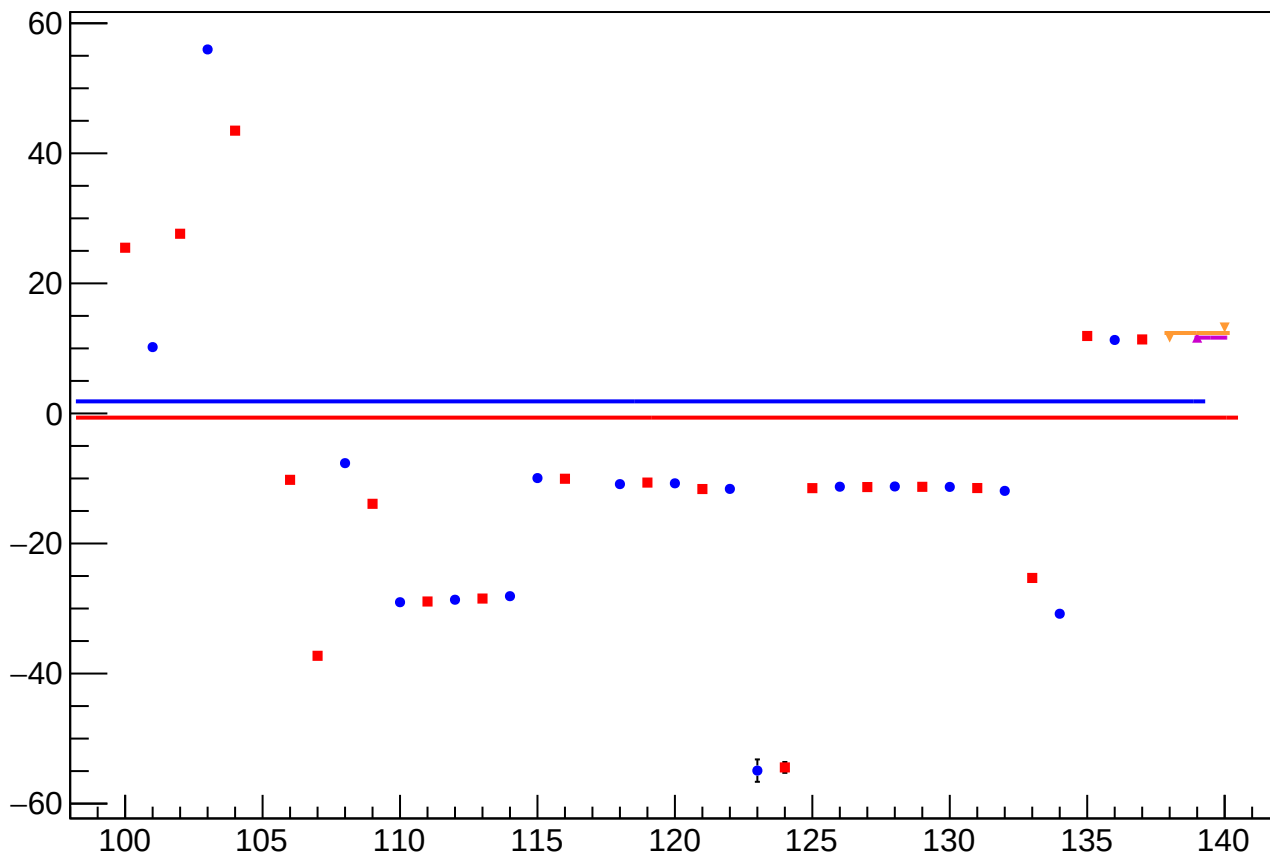
Right: 11.816 $\pm$ 0.468  $\chi^2$ /NDF: 1021.8/35

In: 10.553 $\pm$ 0.636  $\chi^2$ /NDF:514.6/17

Out: 8.799 $\pm$ 0.570  $\chi^2$ /NDF:641.4/20

All: 9.580 $\pm$ 0.425  $\chi^2$ /NDF: 1160.2/38

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.855 $\pm$ 0.037  $\chi^2$ /NDF: 359414.1/16

Left Out: 12.369 $\pm$ 0.045  $\chi^2$ /NDF:285.1/1

Right Out: -0.644 $\pm$ 0.037  $\chi^2$ /NDF: 361625.7/18

Left In: 11.656 $\pm$ 0.055  $\chi^2$ /NDF:0.0/0

Left: 12.079 $\pm$ 0.035  $\chi^2$ /NDF: 385.8/2

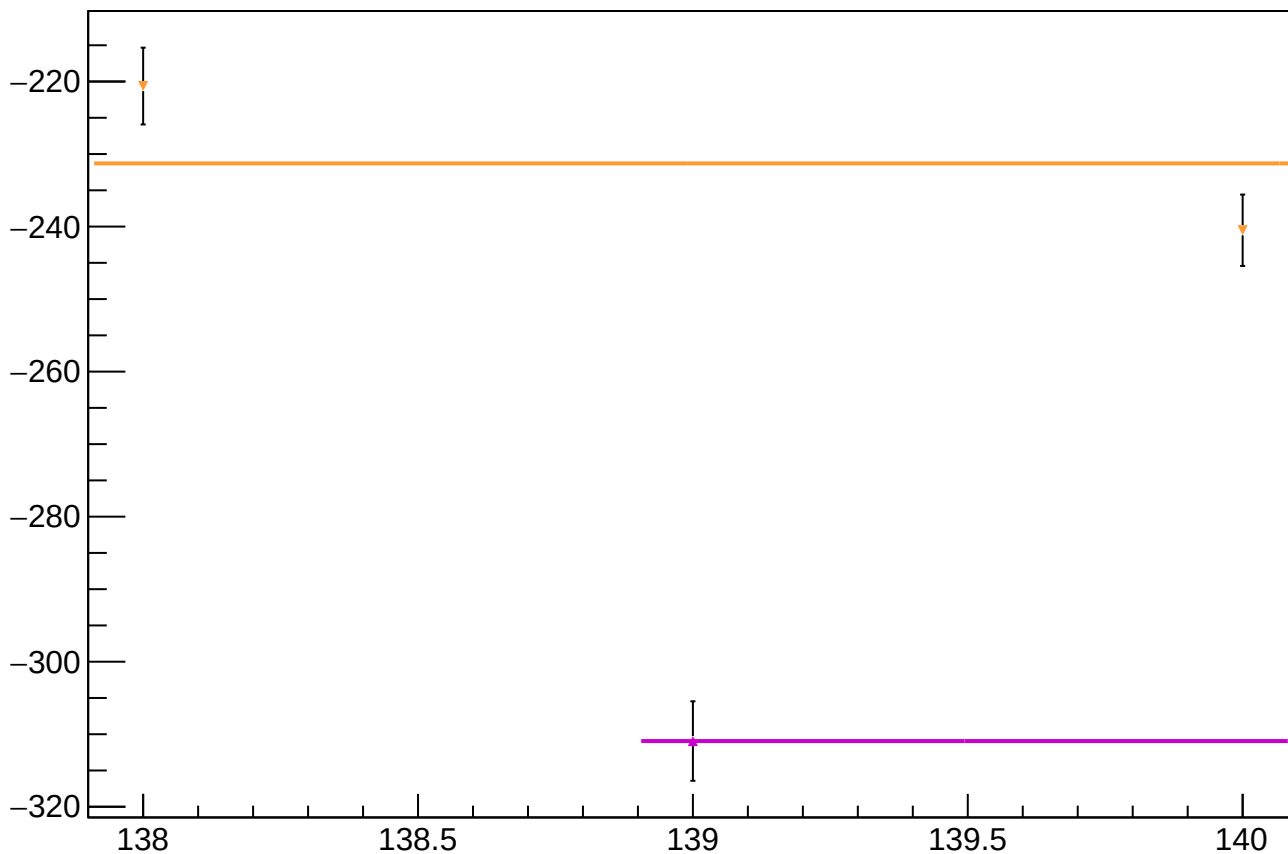
Right: 0.608 $\pm$ 0.026  $\chi^2$ /NDF: 723318.4/35

In: 4.928 $\pm$ 0.031  $\chi^2$ /NDF:381411.3/17

Out: 4.562 $\pm$ 0.029  $\chi^2$ /NDF:411260.2/20

All: 4.733 $\pm$ 0.021  $\chi^2$ /NDF: 792747.4/38

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: -231.291+/-3.604  $\chi^2/\text{NDF}$ : 7.6/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -310.941+/-5.481  $\chi^2/\text{NDF}$ : 0.0/0

Left: -255.339+/-3.011  $\chi^2/\text{NDF}$ : 155.0/2

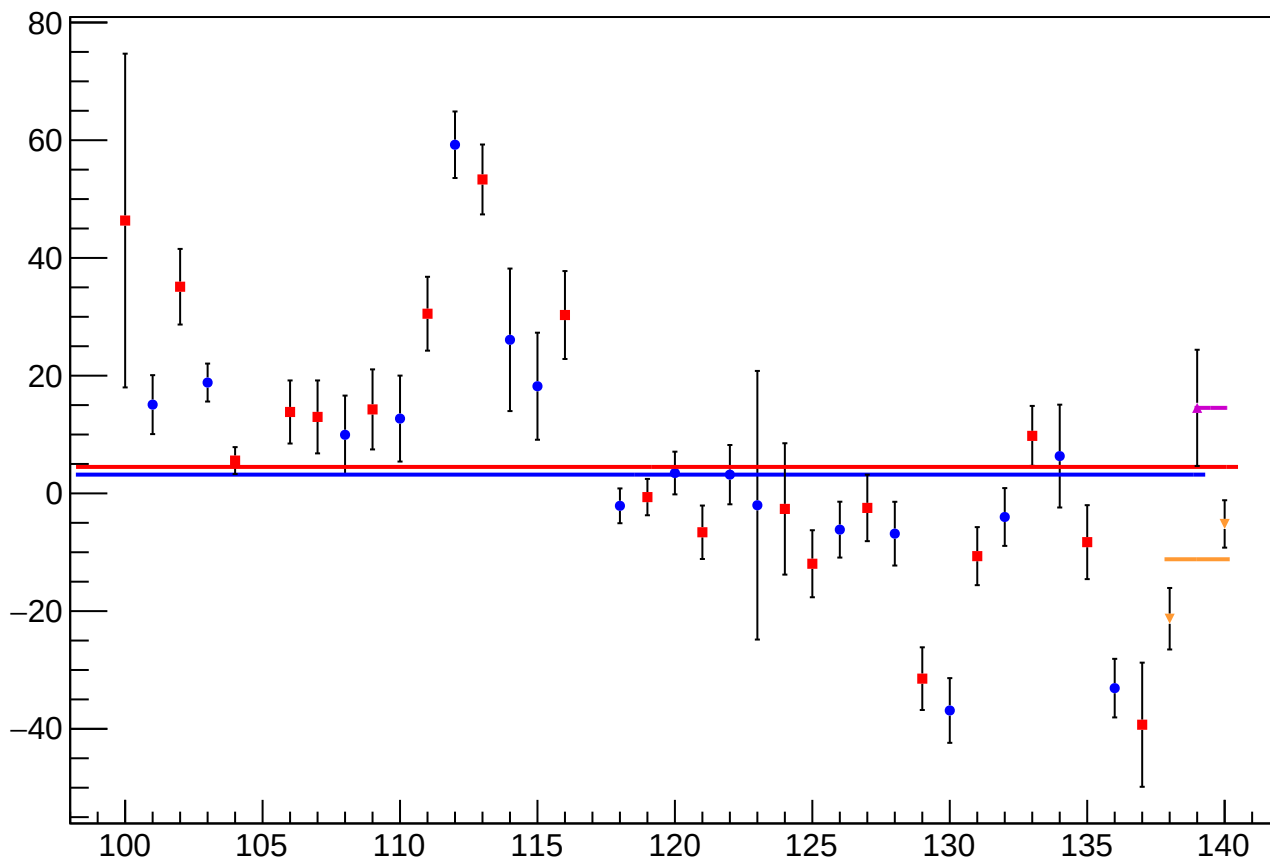
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -310.941+/-5.481  $\chi^2/\text{NDF}$ : 0.0/0

Out: -231.291+/-3.604  $\chi^2/\text{NDF}$ : 7.6/1

All: -255.339+/-3.011  $\chi^2/\text{NDF}$ : 155.0/2

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:  $-11.190 \pm 3.189$   $\chi^2/\text{NDF}$ : 6.0/1

Right Out:  $4.497 \pm 1.160$   $\chi^2/\text{NDF}$ : 225.4/18

Left In:  $14.531 \pm 9.870$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-8.758 \pm 3.035$   $\chi^2/\text{NDF}$ : 12.1/2

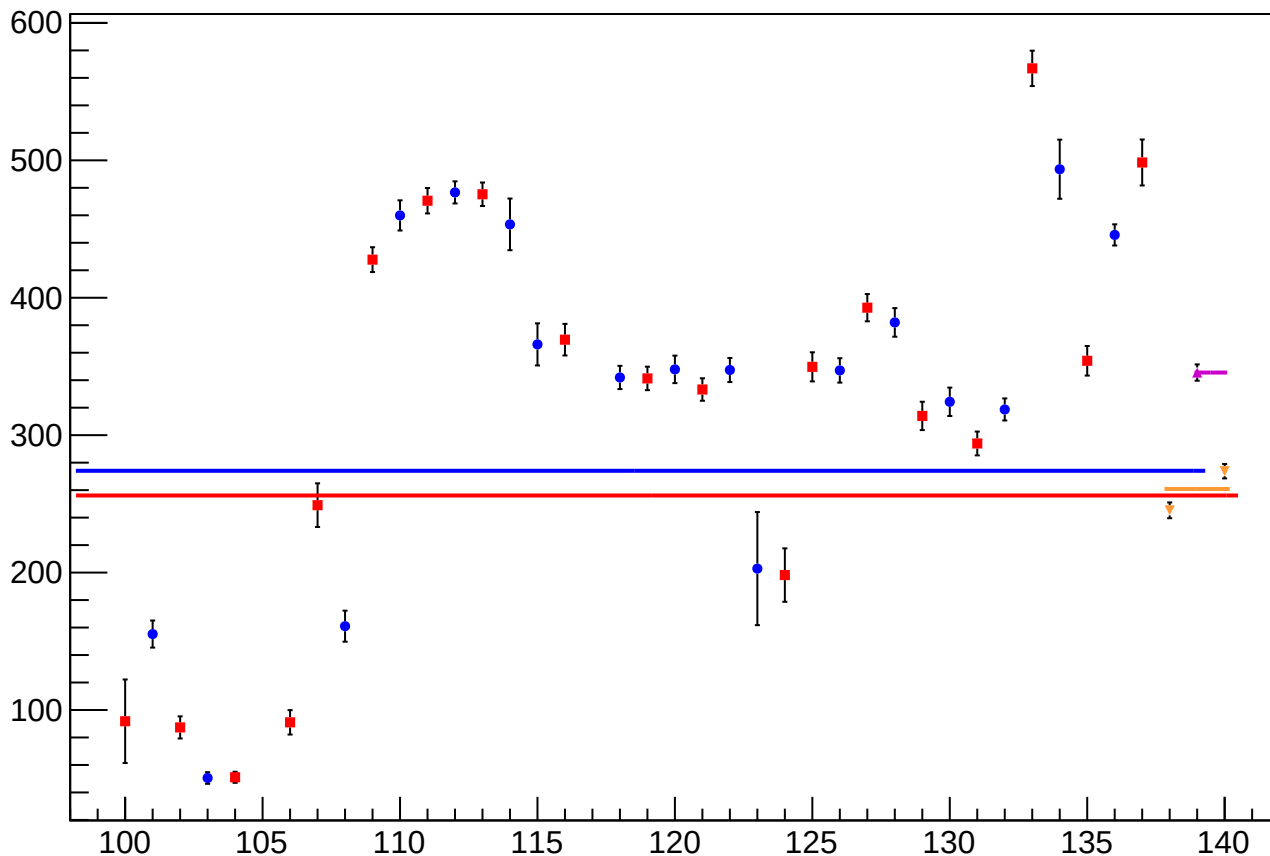
Right:  $3.879 \pm 0.842$   $\chi^2/\text{NDF}$ : 481.7/35

In:  $3.360 \pm 1.216$   $\chi^2/\text{NDF}$ : 256.9/17

Out:  $2.666 \pm 1.090$   $\chi^2/\text{NDF}$ : 252.8/20

All:  $2.975 \pm 0.812$   $\chi^2/\text{NDF}$ : 509.9/38

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 274.079+/-2.191  $\chi^2/\text{NDF}$ : 5112.0/16

Left Out: 260.834+/-3.869  $\chi^2/\text{NDF}$ :13.4/1

Right Out: 256.109+/-2.080  $\chi^2/\text{NDF}$ : 6444.1/18

Left In: 345.568+/-5.935  $\chi^2/\text{NDF}$ :0.0/0

Left: 286.107+/-3.241  $\chi^2/\text{NDF}$ : 156.5/2

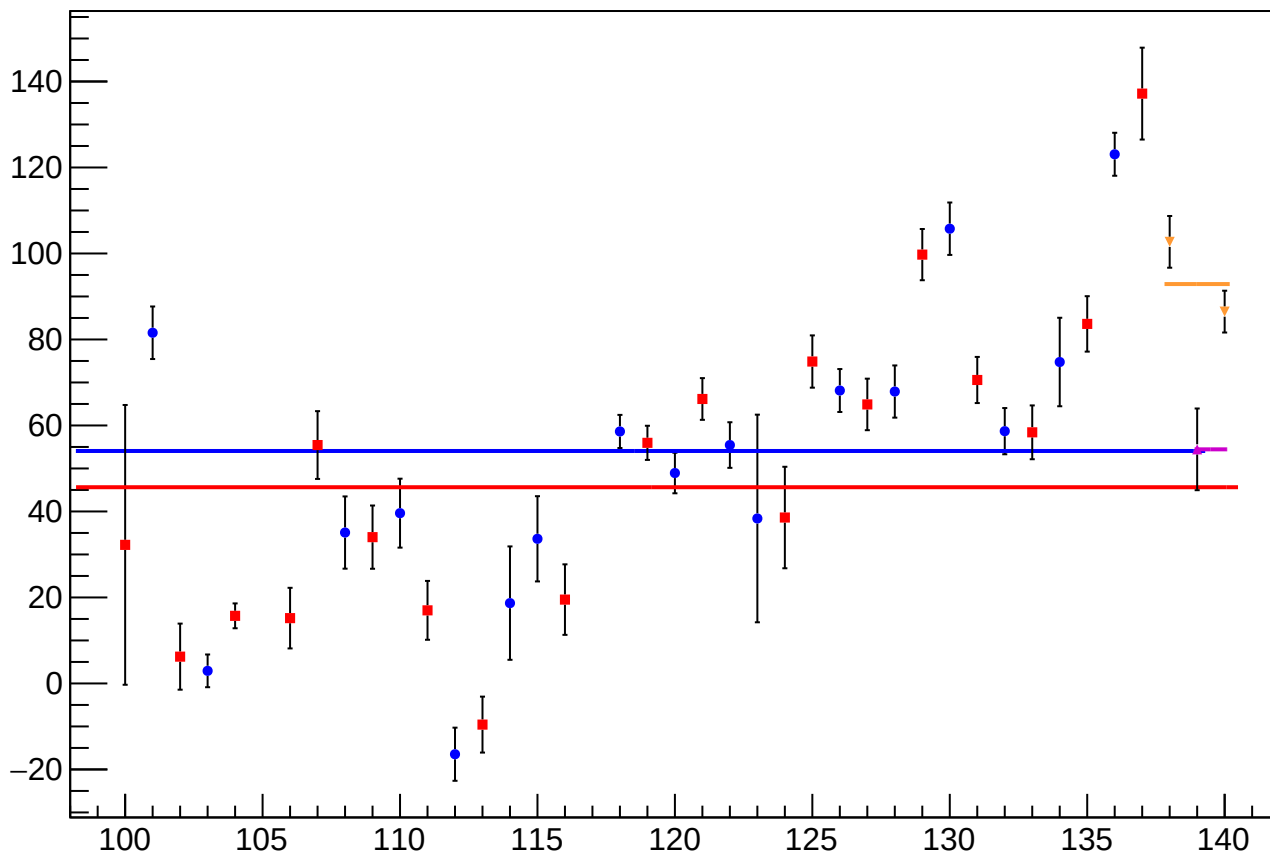
Right: 264.628+/-1.509  $\chi^2/\text{NDF}$ : 11591.4/35

In: 282.653+/-2.055  $\chi^2/\text{NDF}$ :5239.7/17

Out: 257.168+/-1.832  $\chi^2/\text{NDF}$ :6458.6/20

All: 268.453+/-1.368  $\chi^2/\text{NDF}$ : 11784.0/38

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: 92.888 $\pm$ 3.781  $\chi^2$ /NDF:4.4/1

Right Out: 45.637 $\pm$ 1.359  $\chi^2$ /NDF: 530.8/18

Left In: 54.446 $\pm$ 9.501  $\chi^2$ /NDF:0.0/0

Left: 87.632 $\pm$ 3.513  $\chi^2$ /NDF: 18.5/2

Right: 49.665 $\pm$ 0.982  $\chi^2$ /NDF: 1183.6/35

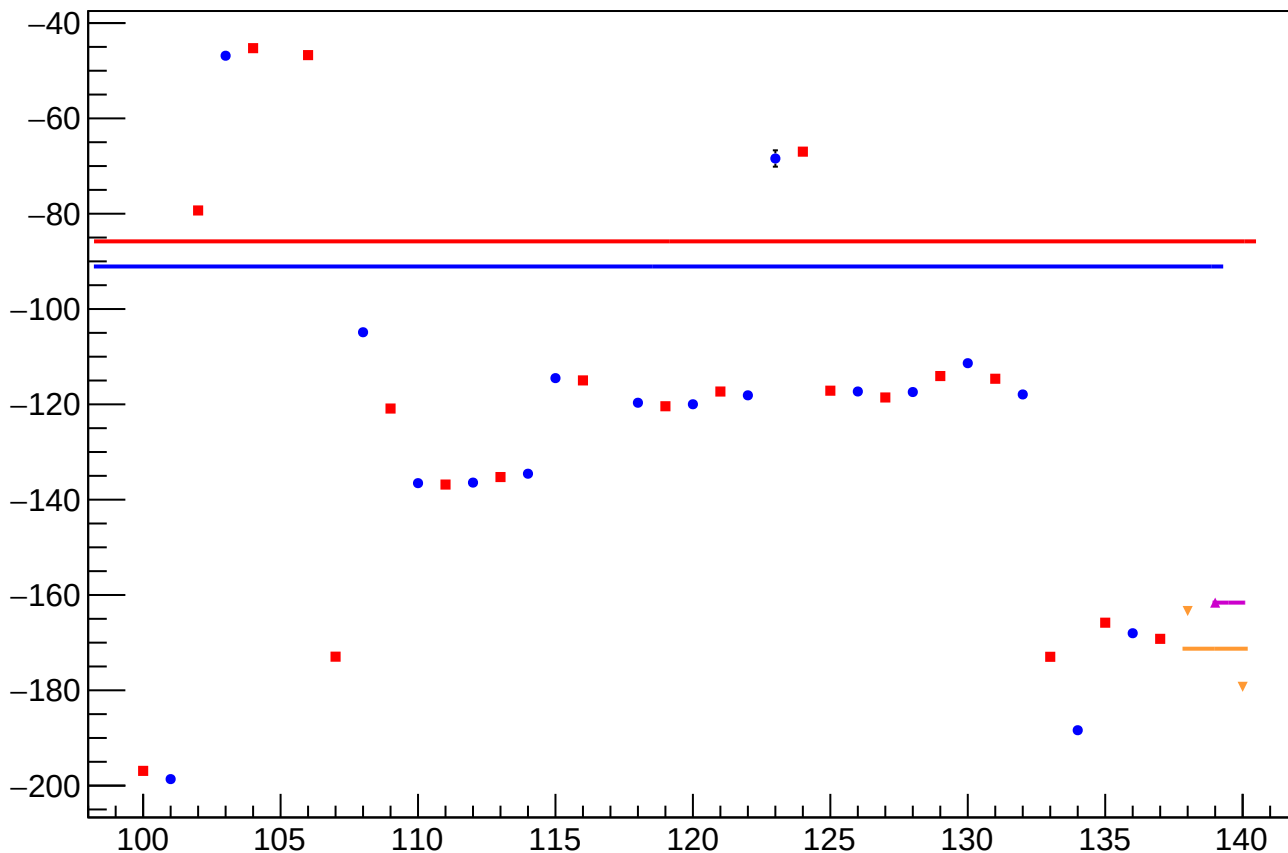
In: 54.073 $\pm$ 1.405  $\chi^2$ /NDF:634.4/17

Out: 51.043 $\pm$ 1.279  $\chi^2$ /NDF:673.5/20

All: 52.417 $\pm$ 0.946  $\chi^2$ /NDF: 1310.4/38



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:  $-171.270 \pm 0.162$   $\chi^2/\text{NDF}: 2418.6/1$

Right Out:  $-85.803 \pm 0.065$   $\chi^2/\text{NDF}: 495895.1/18$

Left In:  $-161.601 \pm 0.209$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-167.648 \pm 0.128$   $\chi^2/\text{NDF}: 3757.9/2$

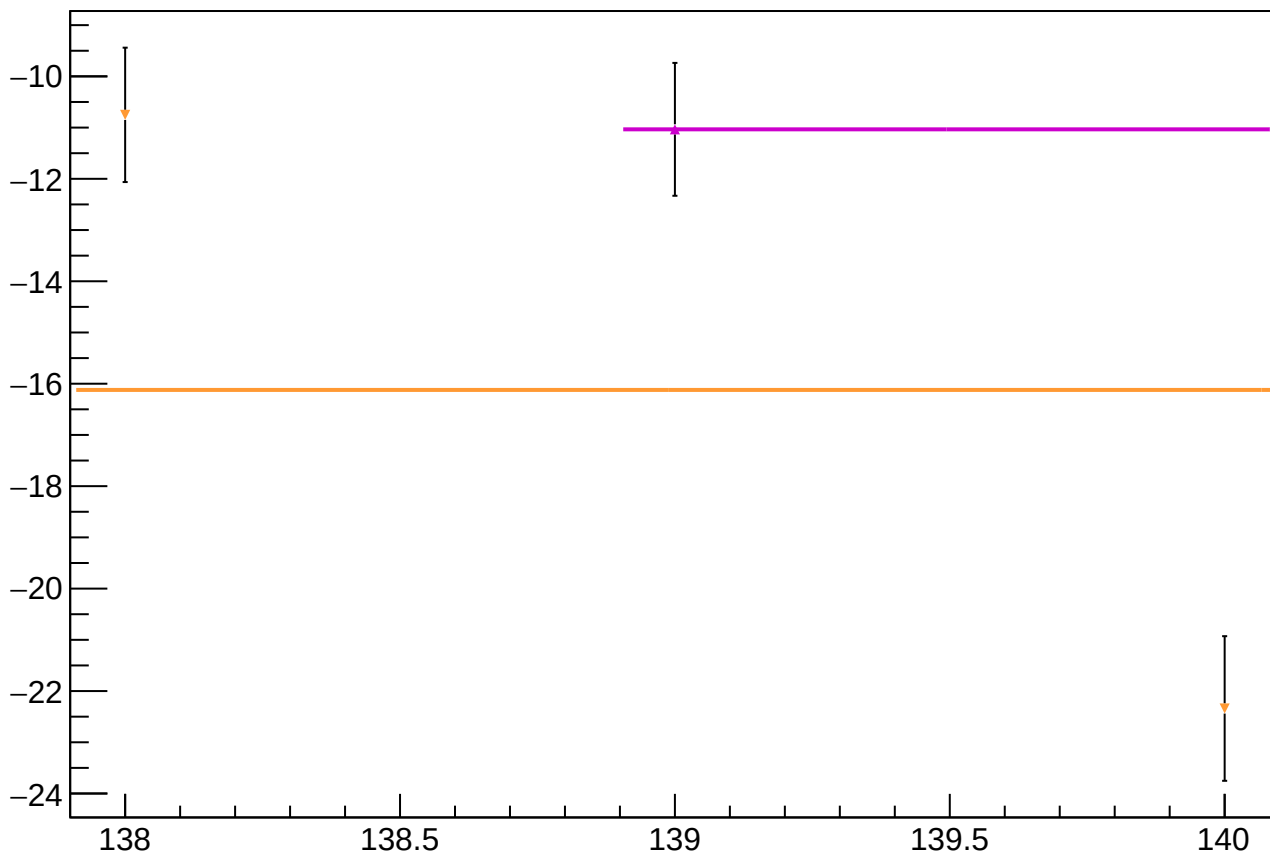
Right:  $-88.339 \pm 0.047$   $\chi^2/\text{NDF}: 1033703.0/35$

In:  $-97.745 \pm 0.064$   $\chi^2/\text{NDF}: 637824.1/17$

Out:  $-97.707 \pm 0.060$   $\chi^2/\text{NDF}: 738808.8/20$

All:  $-97.725 \pm 0.044$   $\chi^2/\text{NDF}: 1376633.2/38$

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: -16.121+/-0.961  $\chi^2/\text{NDF}$ : 36.2/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -11.034+/-1.297  $\chi^2/\text{NDF}$ : 0.0/0

Left: -14.318+/-0.772  $\chi^2/\text{NDF}$ : 46.1/2

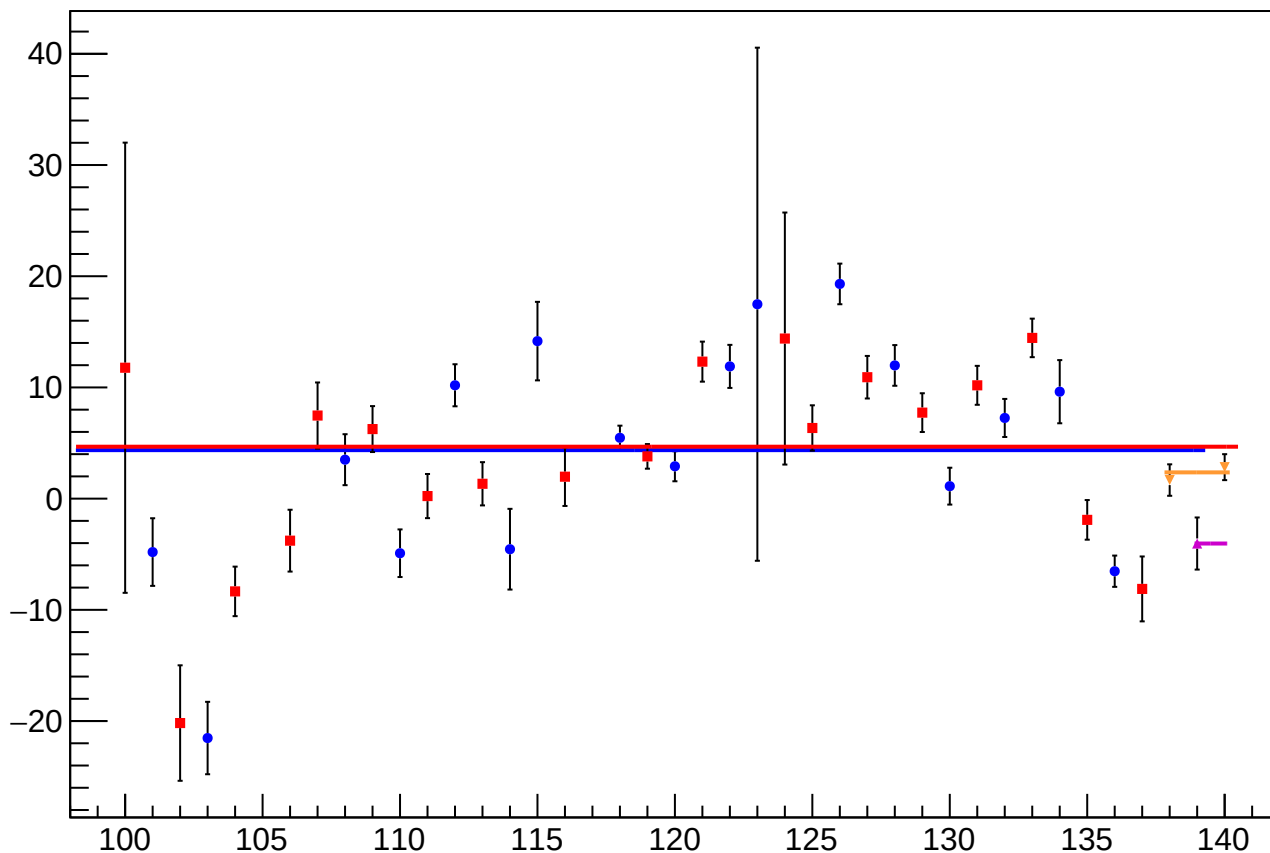
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.034+/-1.297  $\chi^2/\text{NDF}$ : 0.0/0

Out: -16.121+/-0.961  $\chi^2/\text{NDF}$ : 36.2/1

All: -14.318+/-0.772  $\chi^2/\text{NDF}$ : 46.1/2

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: 2.361 $\pm$ 0.900  $\chi^2$ /NDF:0.4/1

Right Out: 4.670 $\pm$ 0.474  $\chi^2$ /NDF: 185.4/18

Left In: -4.037 $\pm$ 2.343  $\chi^2$ /NDF:0.0/0

Left: 1.538 $\pm$ 0.840  $\chi^2$ /NDF: 6.9/2

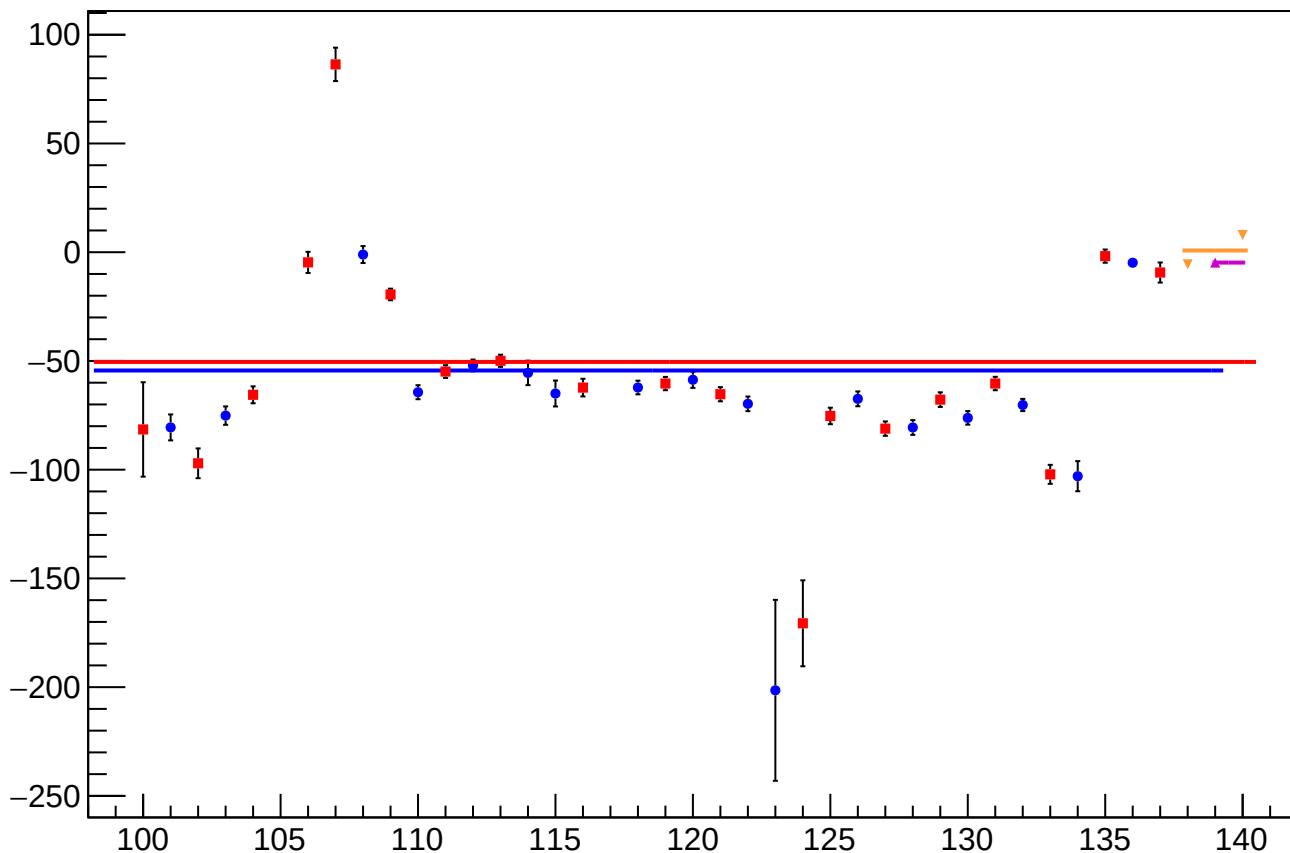
Right: 4.512 $\pm$ 0.332  $\chi^2$ /NDF: 472.1/35

In: 4.044 $\pm$ 0.455  $\chi^2$ /NDF:298.9/17

Out: 4.169 $\pm$ 0.420  $\chi^2$ /NDF:190.9/20

All: 4.111 $\pm$ 0.309  $\chi^2$ /NDF: 489.8/38

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:  $0.800 \pm 1.034$   $\chi^2/\text{NDF}$ : 42.4/1

Right Out:  $-50.441 \pm 0.857$   $\chi^2/\text{NDF}$ : 1324.7/18

Left In:  $-4.767 \pm 1.404$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.157 \pm 0.832$   $\chi^2/\text{NDF}$ : 52.6/2

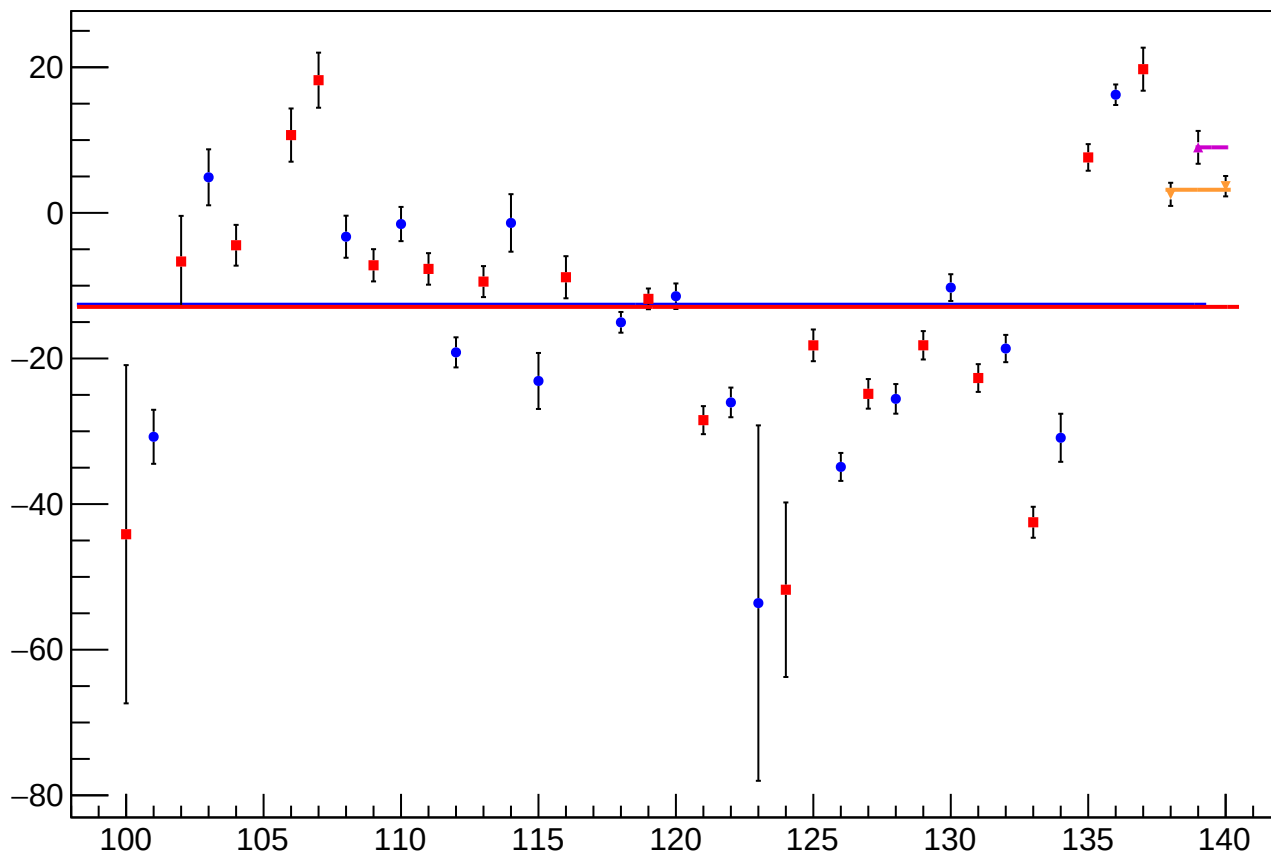
Right:  $-52.405 \pm 0.608$   $\chi^2/\text{NDF}$ : 2348.7/35

In:  $-40.791 \pm 0.735$   $\chi^2/\text{NDF}$ : 1920.7/17

Out:  $-29.553 \pm 0.660$   $\chi^2/\text{NDF}$ : 2823.1/20

All:  $-34.569 \pm 0.491$   $\chi^2/\text{NDF}$ : 4873.3/38

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:  $3.176 \pm 1.050$   $\chi^2/\text{NDF}$ : 0.3/1

Right Out:  $-12.912 \pm 0.538$   $\chi^2/\text{NDF}$ : 730.2/18

Left In:  $9.002 \pm 2.256$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $4.214 \pm 0.952$   $\chi^2/\text{NDF}$ : 5.8/2

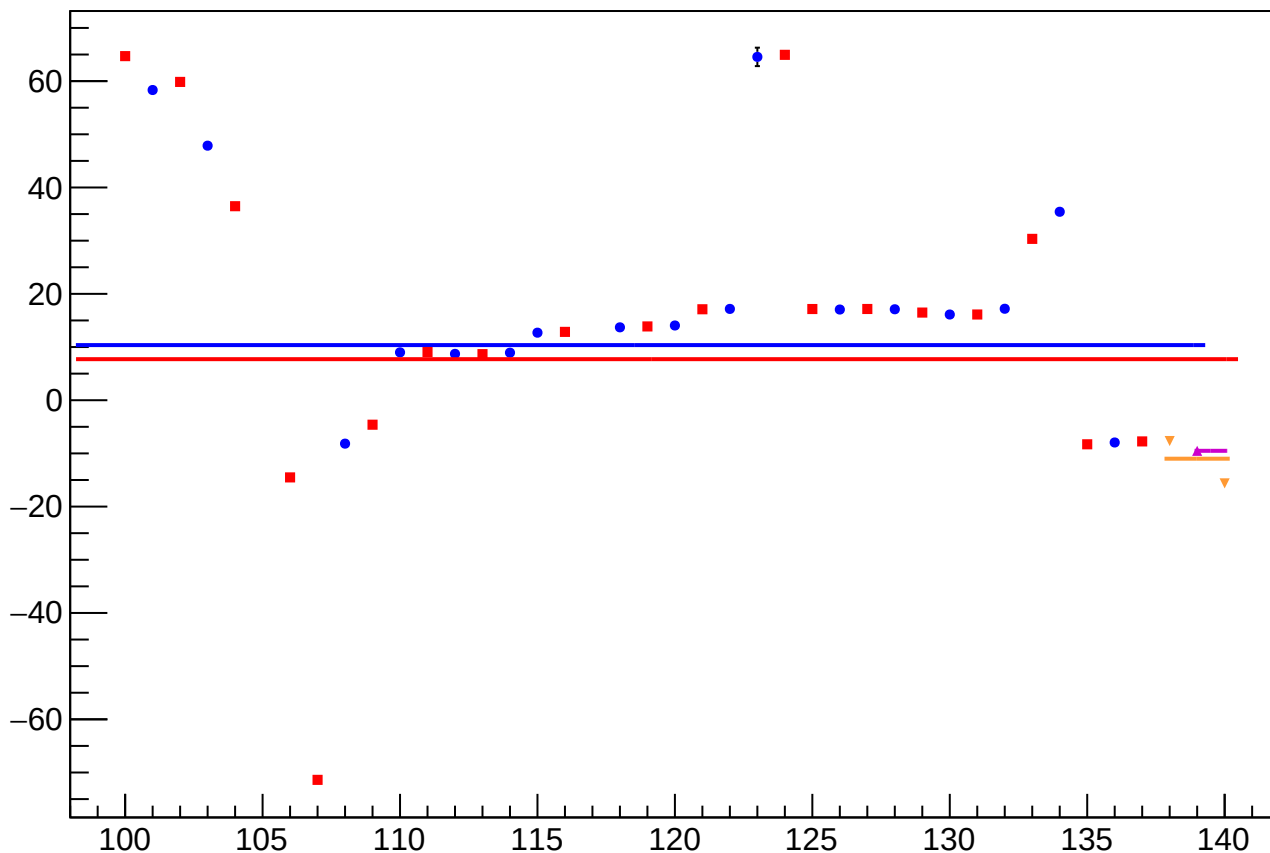
Right:  $-12.762 \pm 0.378$   $\chi^2/\text{NDF}$ : 1518.6/35

In:  $-11.484 \pm 0.516$   $\chi^2/\text{NDF}$ : 875.3/17

Out:  $-9.567 \pm 0.479$   $\chi^2/\text{NDF}$ : 916.3/20

All:  $-10.454 \pm 0.351$   $\chi^2/\text{NDF}$ : 1799.0/38

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 10.366+/-0.031  $\chi^2/\text{NDF}$ : 381003.5/16

Left Out: -10.995+/-0.042  $\chi^2/\text{NDF}$ : 8669.3/1

Right Out: 7.719+/-0.031  $\chi^2/\text{NDF}$ : 545085.7/18

Left In: -9.513+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left: -10.372+/-0.032  $\chi^2/\text{NDF}$ : 9188.7/2

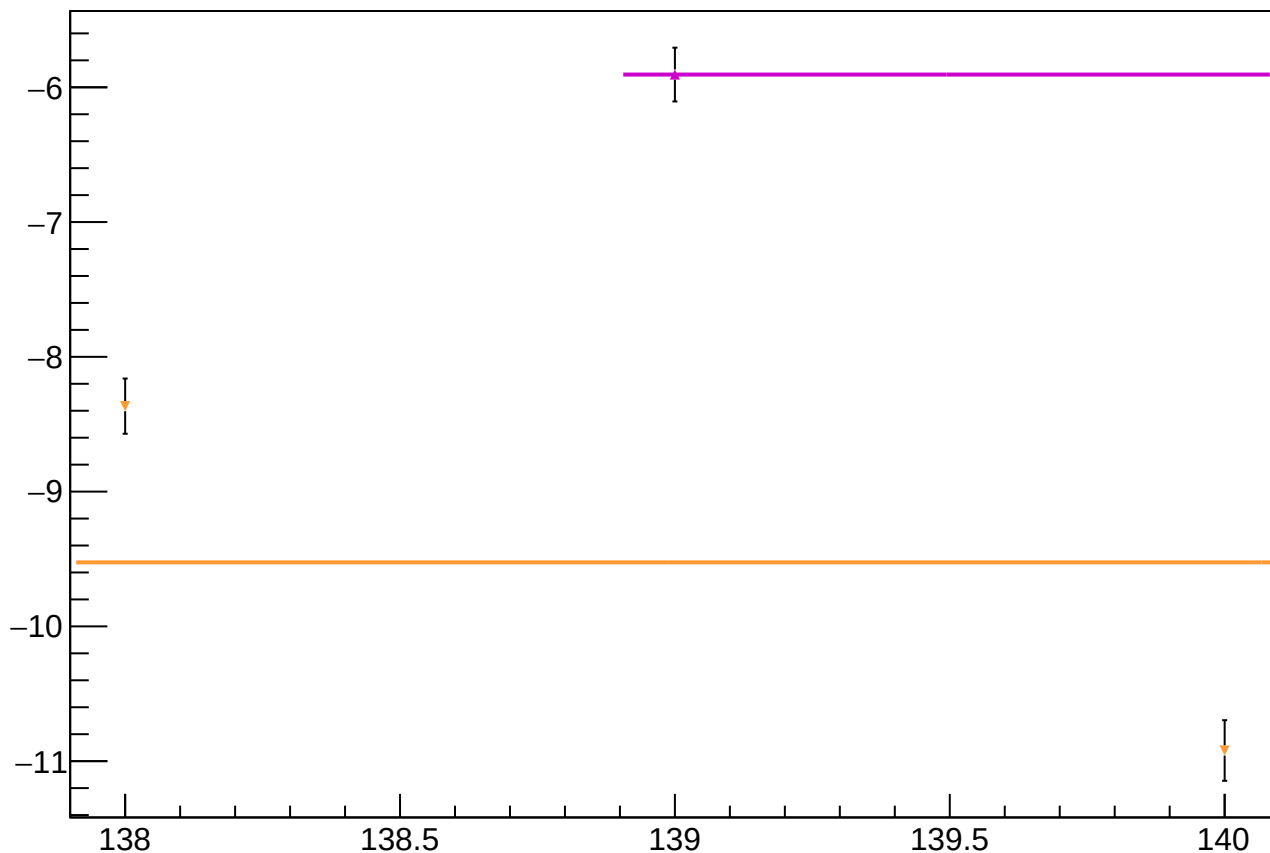
Right: 9.073+/-0.022  $\chi^2/\text{NDF}$ : 929756.2/35

In: 4.892+/-0.026  $\chi^2/\text{NDF}$ : 497701.0/17

Out: 1.082+/-0.025  $\chi^2/\text{NDF}$ : 680911.7/20

All: 2.921+/-0.018  $\chi^2/\text{NDF}$ : 1189725.5/38

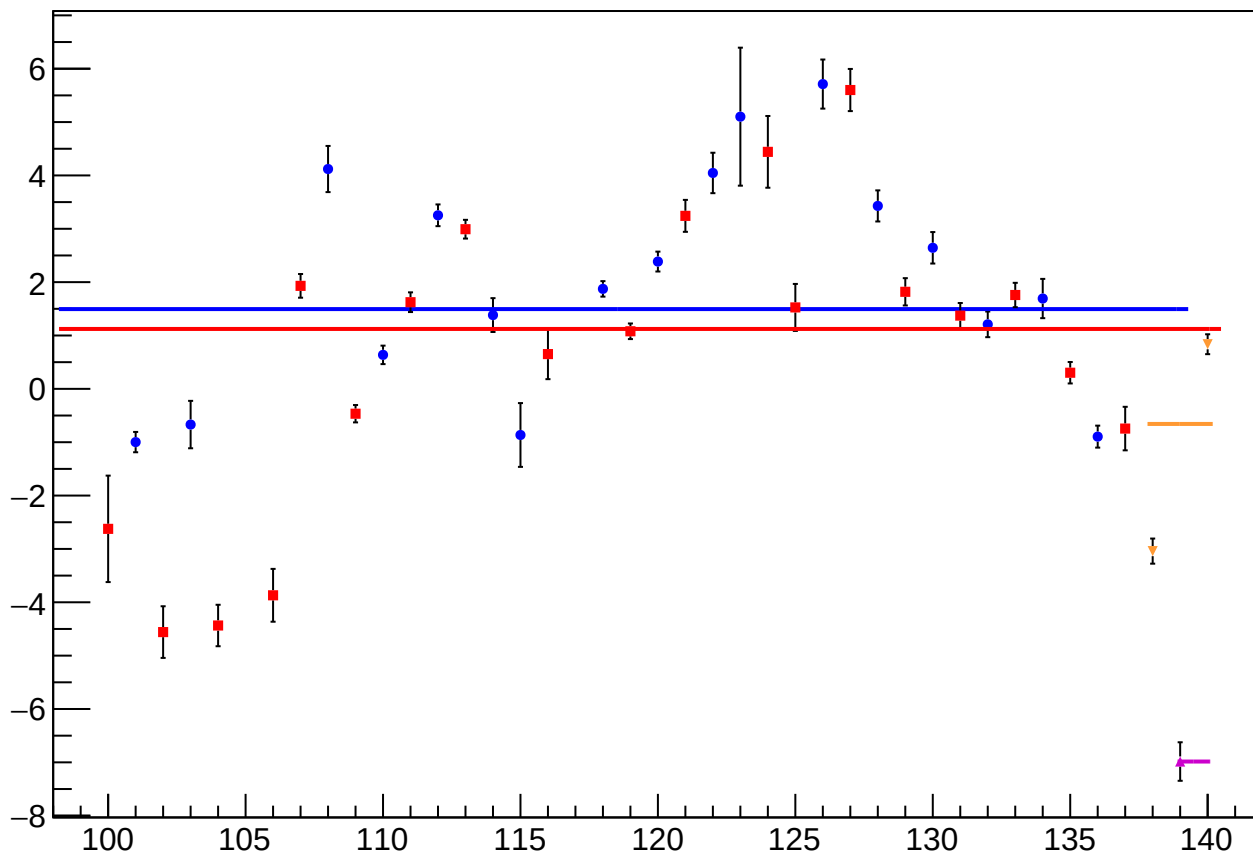
reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.525 $\pm$ 0.151  $\chi^2$ /NDF: 70.6/1  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.906 $\pm$ 0.200  $\chi^2$ /NDF: 0.0/0

Left: -8.203 $\pm$ 0.121  $\chi^2$ /NDF: 279.3/2  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -5.906 $\pm$ 0.200  $\chi^2$ /NDF: 0.0/0  
 Out: -9.525 $\pm$ 0.151  $\chi^2$ /NDF: 70.6/1  
 All: -8.203 $\pm$ 0.121  $\chi^2$ /NDF: 279.3/2

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:  $-0.658 \pm 0.146$   $\chi^2/\text{NDF}$ : 166.7/1

Right Out:  $1.123 \pm 0.058$   $\chi^2/\text{NDF}$ : 946.5/18

Left In:  $-6.985 \pm 0.361$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.548 \pm 0.135$   $\chi^2/\text{NDF}$ : 430.6/2

Right:  $1.300 \pm 0.042$   $\chi^2/\text{NDF}$ : 1674.8/35

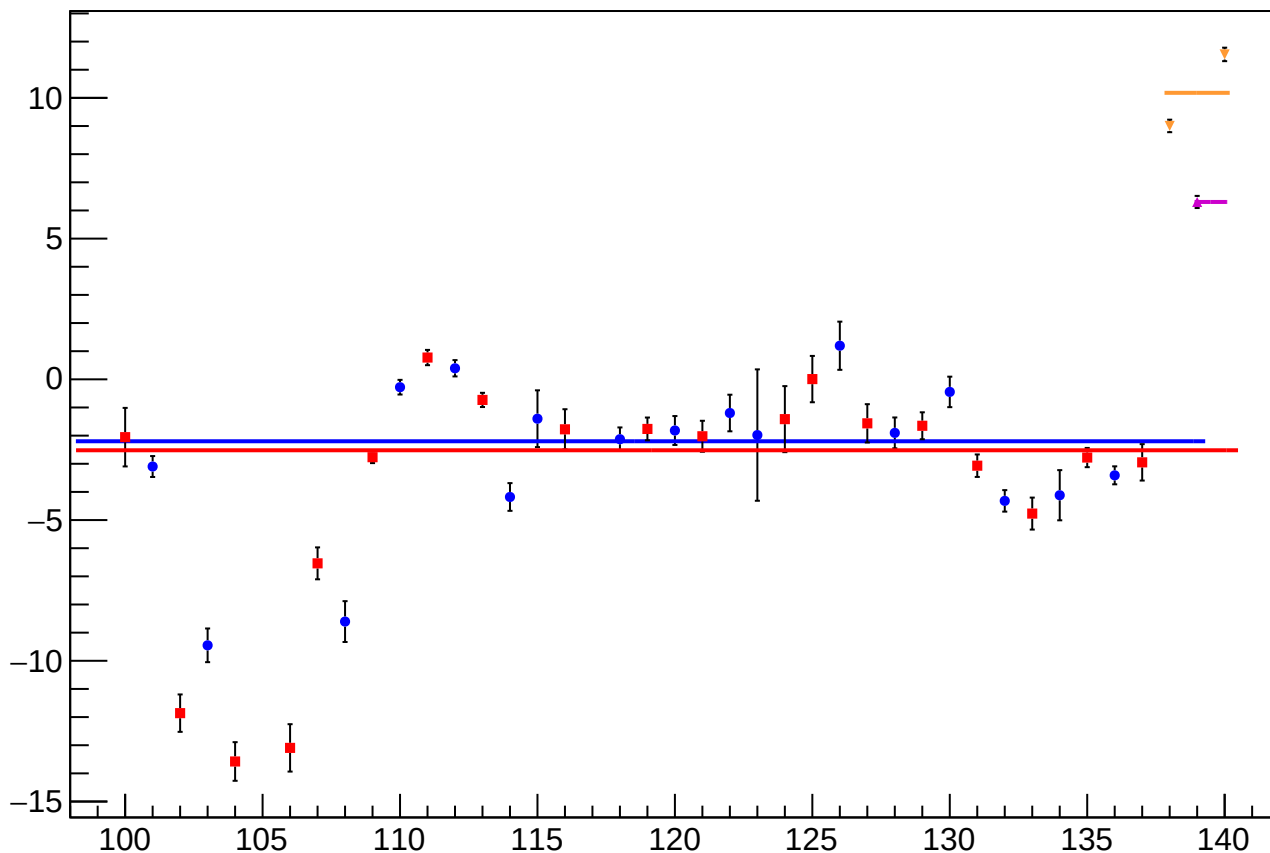
In:  $1.259 \pm 0.060$   $\chi^2/\text{NDF}$ : 1245.1/17

Out:  $0.879 \pm 0.054$   $\chi^2/\text{NDF}$ : 1241.3/20

All:  $1.049 \pm 0.040$   $\chi^2/\text{NDF}$ : 2508.4/38



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:  $10.180 \pm 0.163$   $\chi^2/\text{NDF}$ : 60.4/1

Right Out:  $-2.520 \pm 0.099$   $\chi^2/\text{NDF}$ : 903.3/18

Left In:  $6.302 \pm 0.216$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $8.772 \pm 0.130$   $\chi^2/\text{NDF}$ : 265.9/2

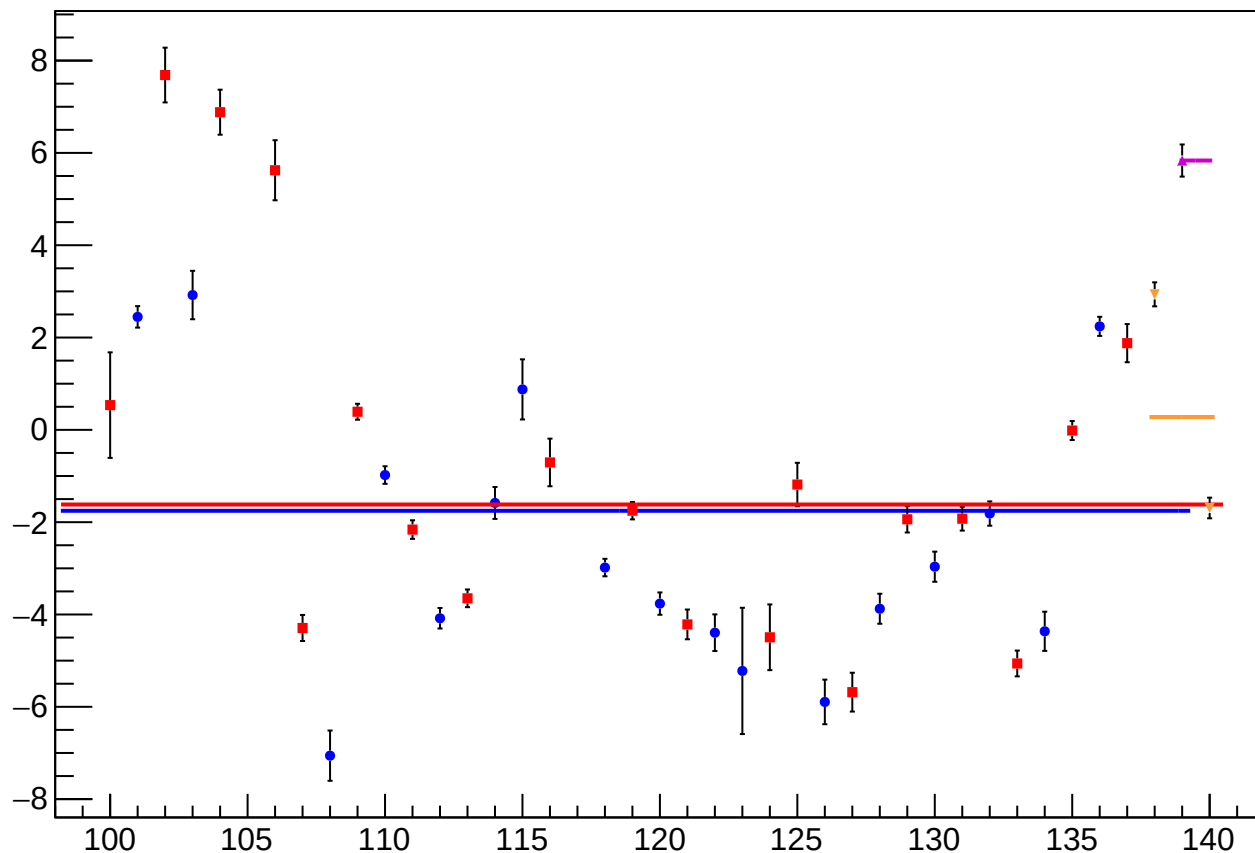
Right:  $-2.378 \pm 0.074$   $\chi^2/\text{NDF}$ : 1368.9/35

In:  $-0.433 \pm 0.098$   $\chi^2/\text{NDF}$ : 1689.4/17

Out:  $0.899 \pm 0.085$   $\chi^2/\text{NDF}$ : 5399.1/20

All:  $0.333 \pm 0.064$   $\chi^2/\text{NDF}$ : 7193.9/38

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:  $0.278 \pm 0.169$   $\chi^2/\text{NDF}$ : 182.3/1

Right Out:  $-1.617 \pm 0.066$   $\chi^2/\text{NDF}$ : 1487.5/18

Left In:  $5.835 \pm 0.348$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.344 \pm 0.152$   $\chi^2/\text{NDF}$ : 388.5/2

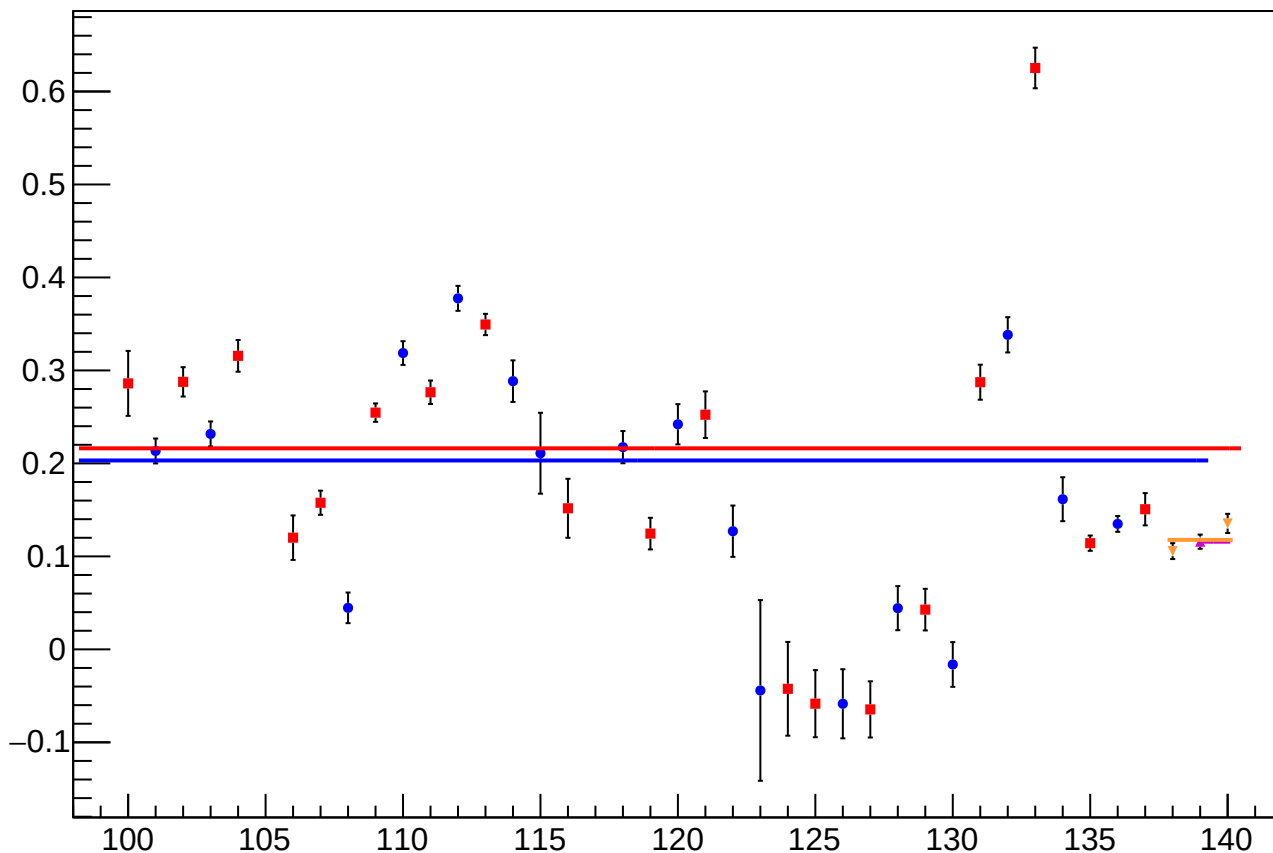
Right:  $-1.681 \pm 0.048$   $\chi^2/\text{NDF}$ : 2834.6/35

In:  $-1.455 \pm 0.069$   $\chi^2/\text{NDF}$ : 1802.1/17

Out:  $-1.370 \pm 0.061$   $\chi^2/\text{NDF}$ : 1778.6/20

All:  $-1.407 \pm 0.046$   $\chi^2/\text{NDF}$ : 3581.6/38

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004  $\chi^2$ /NDF: 677.2/16

Left Out: 0.118 $\pm$ 0.007  $\chi^2$ /NDF: 4.9/1

Right Out: 0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1067.3/18

Left In: 0.116 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left: 0.117 $\pm$ 0.005  $\chi^2$ /NDF: 5.0/2

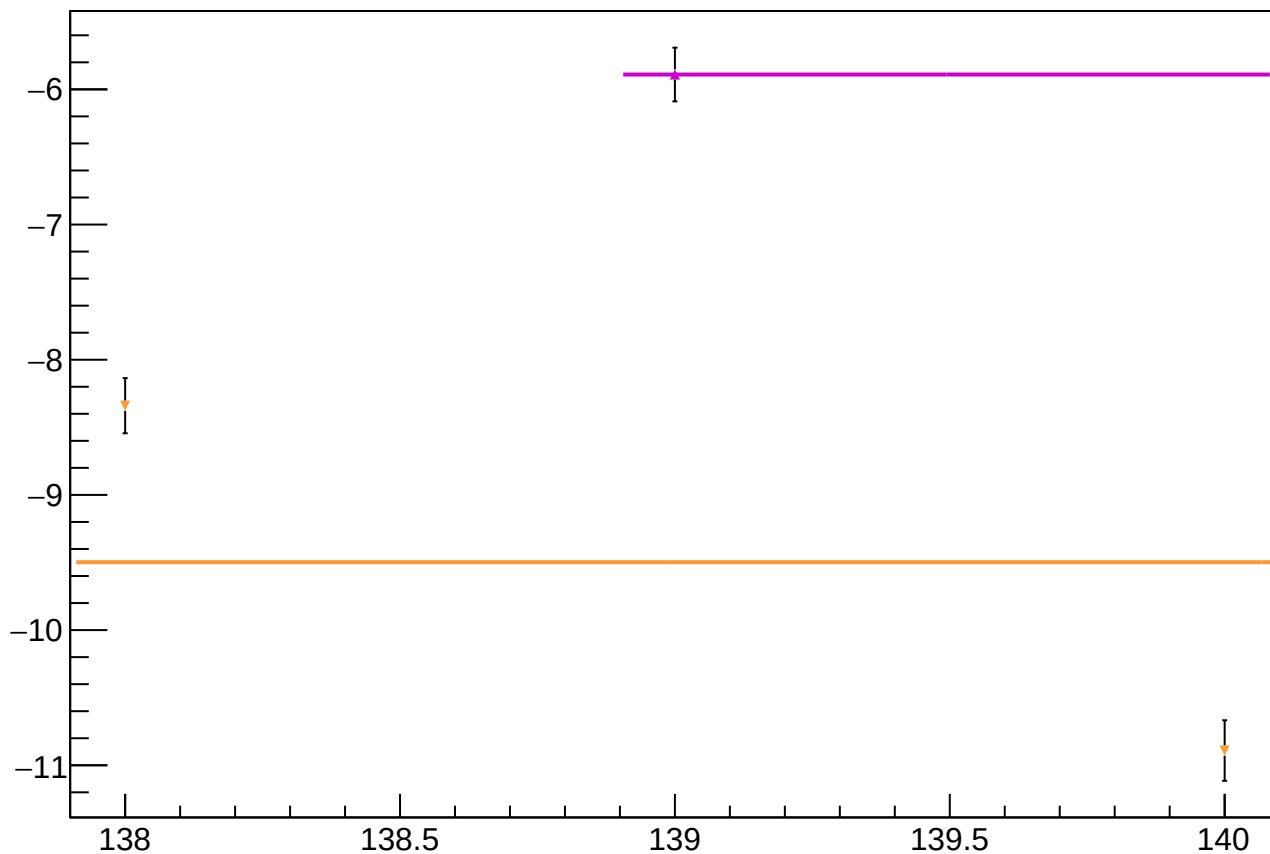
Right: 0.210 $\pm$ 0.003  $\chi^2$ /NDF: 1750.0/35

In: 0.183 $\pm$ 0.004  $\chi^2$ /NDF: 778.5/17

Out: 0.193 $\pm$ 0.003  $\chi^2$ /NDF: 1242.3/20

All: 0.189 $\pm$ 0.002  $\chi^2$ /NDF: 2024.5/38

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: -9.498+/-0.151  $\chi^2/\text{NDF}$ : 71.0/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.890+/-0.199  $\chi^2/\text{NDF}$ : 0.0/0

Left: -8.180+/-0.120  $\chi^2/\text{NDF}$ : 280.1/2

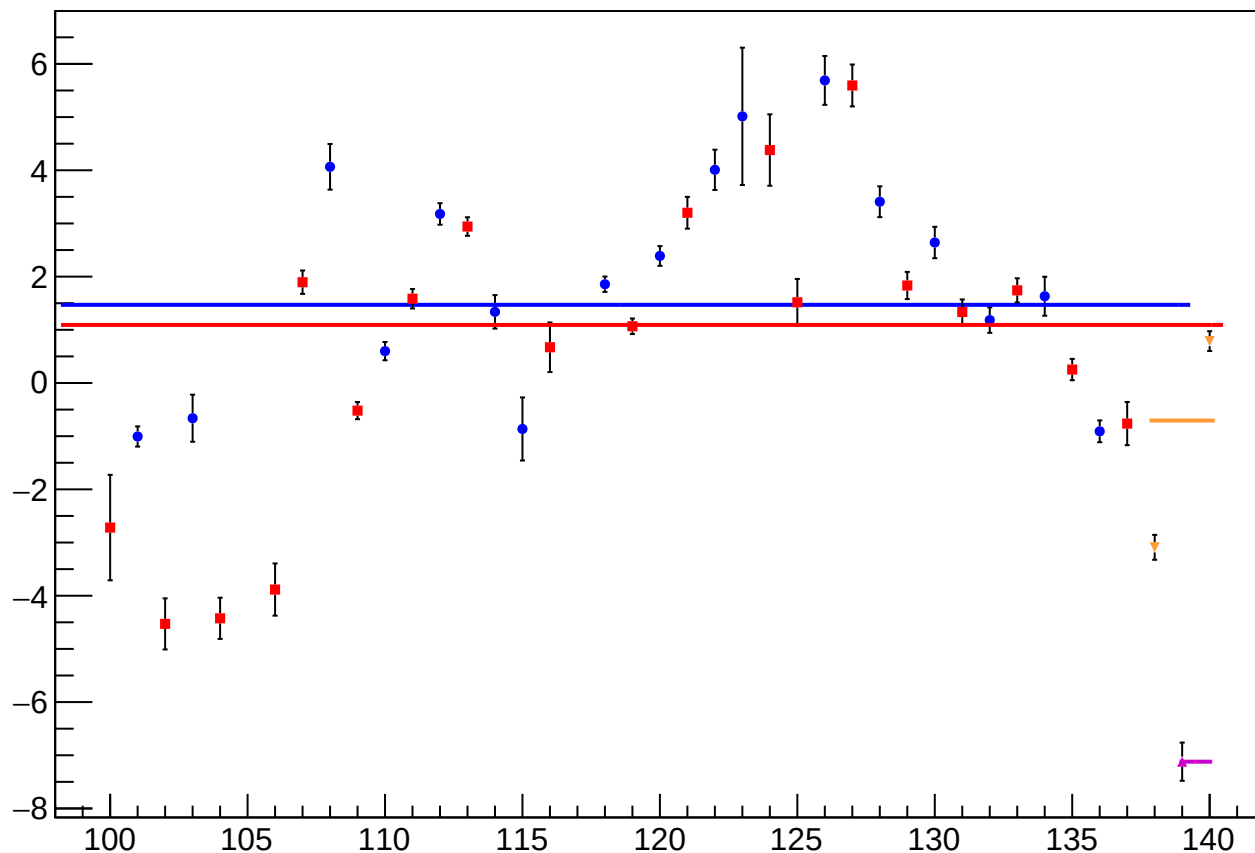
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.890+/-0.199  $\chi^2/\text{NDF}$ : 0.0/0

Out: -9.498+/-0.151  $\chi^2/\text{NDF}$ : 71.0/1

All: -8.180+/-0.120  $\chi^2/\text{NDF}$ : 280.1/2

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.470 \pm 0.061$   $\chi^2/\text{NDF}: 707.9/16$

Left Out:  $-0.706 \pm 0.145$   $\chi^2/\text{NDF}: 168.3/1$

Right Out:  $1.092 \pm 0.058$   $\chi^2/\text{NDF}: 952.1/18$

Left In:  $-7.121 \pm 0.360$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $-1.609 \pm 0.135$   $\chi^2/\text{NDF}: 441.8/2$

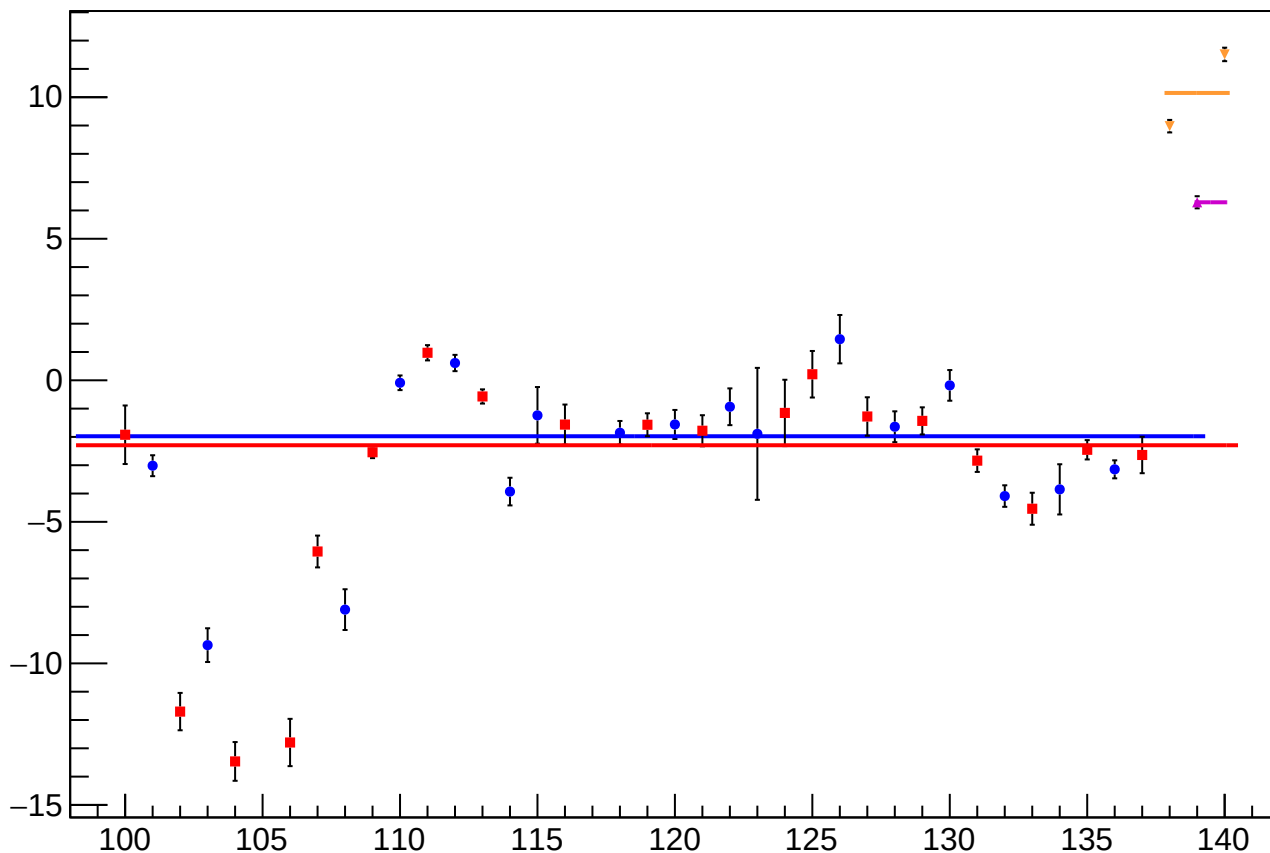
Right:  $1.272 \pm 0.042$   $\chi^2/\text{NDF}: 1680.2/35$

In:  $1.231 \pm 0.060$   $\chi^2/\text{NDF}: 1262.9/17$

Out:  $0.846 \pm 0.054$   $\chi^2/\text{NDF}: 1252.2/20$

All:  $1.018 \pm 0.040$   $\chi^2/\text{NDF}: 2537.9/38$

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:  $10.151 \pm 0.162$   $\chi^2/\text{NDF}$ : 60.7/1

Right Out:  $-2.294 \pm 0.098$   $\chi^2/\text{NDF}$ : 906.6/18

Left In:  $6.288 \pm 0.215$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $8.749 \pm 0.130$   $\chi^2/\text{NDF}$ : 266.3/2

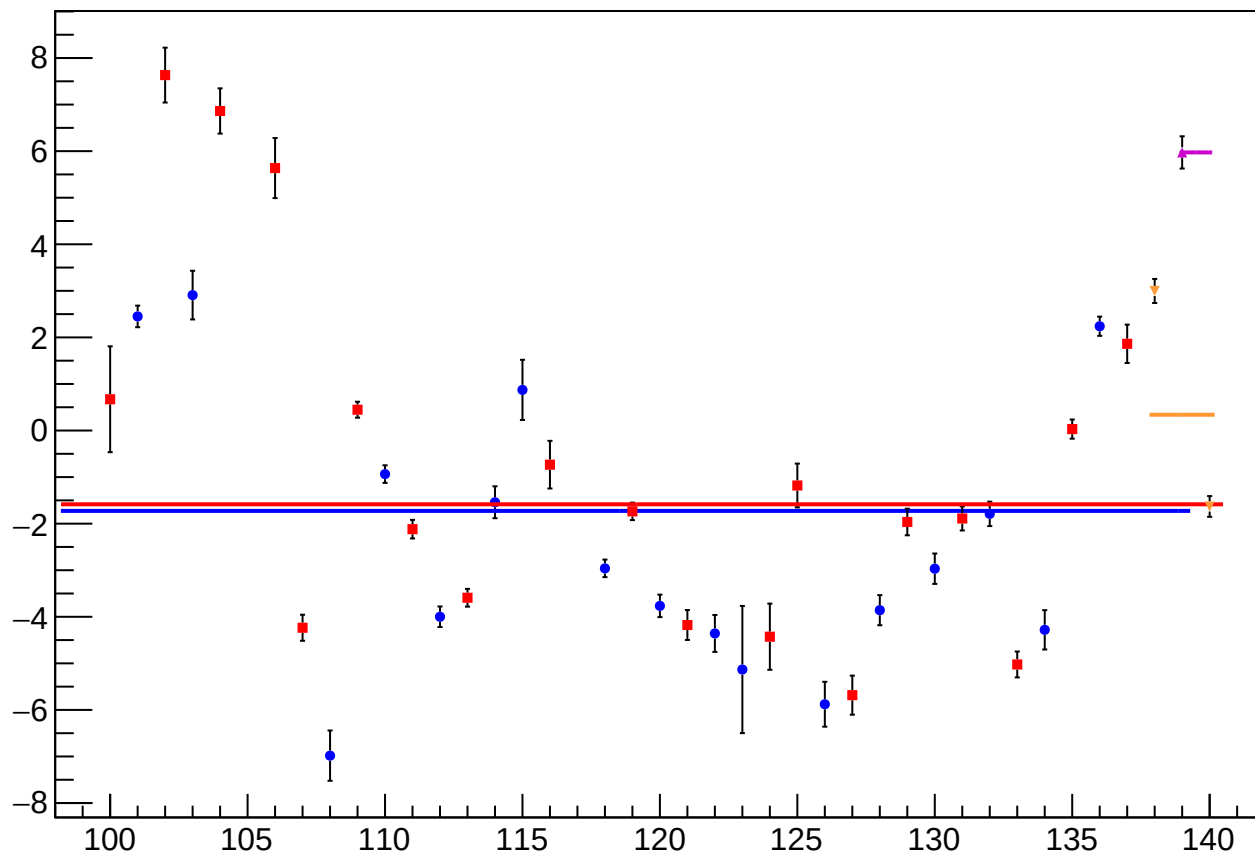
Right:  $-2.153 \pm 0.073$   $\chi^2/\text{NDF}$ : 1375.0/35

In:  $-0.261 \pm 0.098$   $\chi^2/\text{NDF}$ : 1634.9/17

Out:  $1.052 \pm 0.084$   $\chi^2/\text{NDF}$ : 5266.2/20

All:  $0.495 \pm 0.064$   $\chi^2/\text{NDF}$ : 7004.5/38

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:  $0.339 \pm 0.169$   $\chi^2/\text{NDF}$ : 183.9/1

Right Out:  $-1.584 \pm 0.065$   $\chi^2/\text{NDF}$ : 1492.8/18

Left In:  $5.973 \pm 0.346$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.420 \pm 0.152$   $\chi^2/\text{NDF}$ : 397.7/2

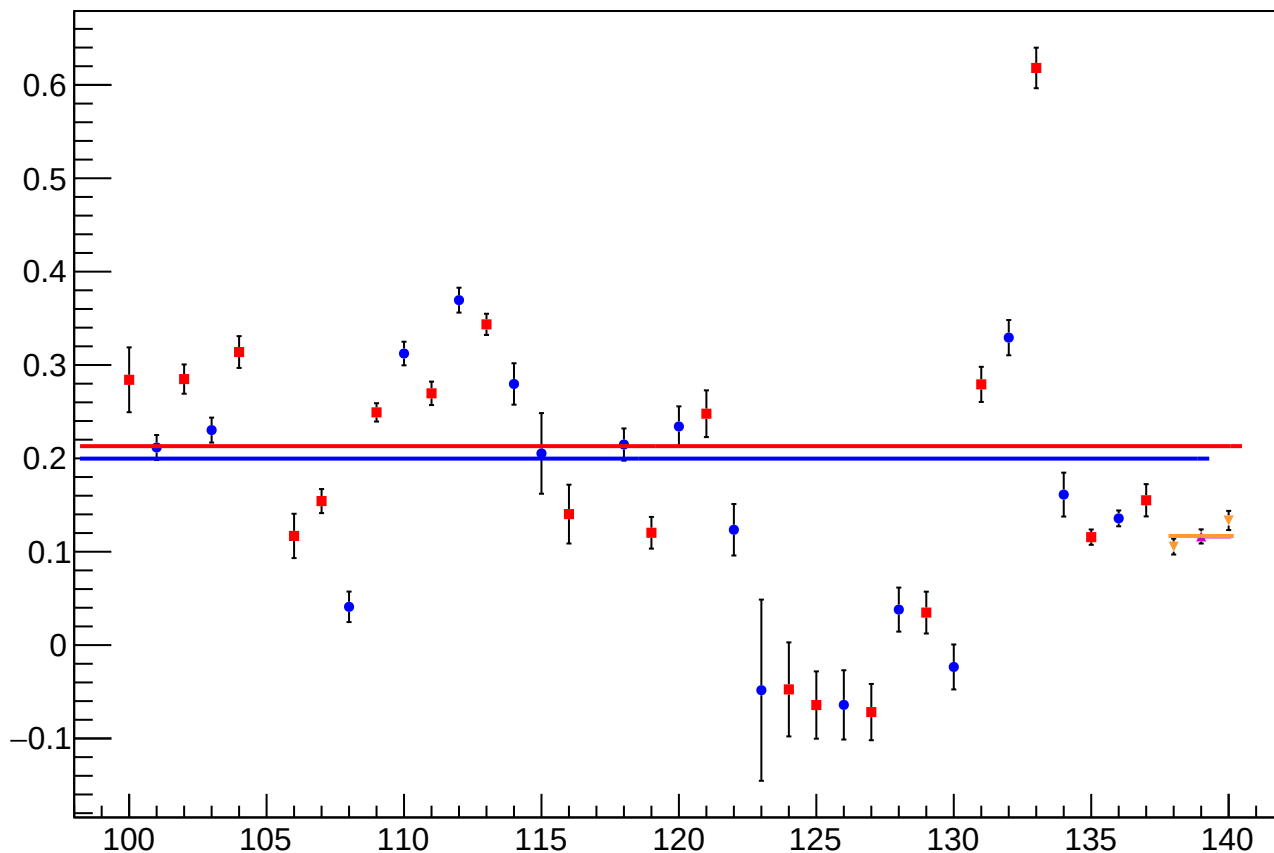
Right:  $-1.650 \pm 0.048$   $\chi^2/\text{NDF}$ : 2836.5/35

In:  $-1.424 \pm 0.069$   $\chi^2/\text{NDF}$ : 1816.1/17

Out:  $-1.333 \pm 0.061$   $\chi^2/\text{NDF}$ : 1789.7/20

All:  $-1.373 \pm 0.046$   $\chi^2/\text{NDF}$ : 3606.8/38

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.200 $\pm$ 0.004  $\chi^2$ /NDF: 662.5/16

Left Out: 0.117 $\pm$ 0.007  $\chi^2$ /NDF: 4.4/1

Right Out: 0.213 $\pm$ 0.004  $\chi^2$ /NDF: 1050.9/18

Left In: 0.116 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left: 0.117 $\pm$ 0.005  $\chi^2$ /NDF: 4.4/2

Right: 0.207 $\pm$ 0.003  $\chi^2$ /NDF: 1719.2/35

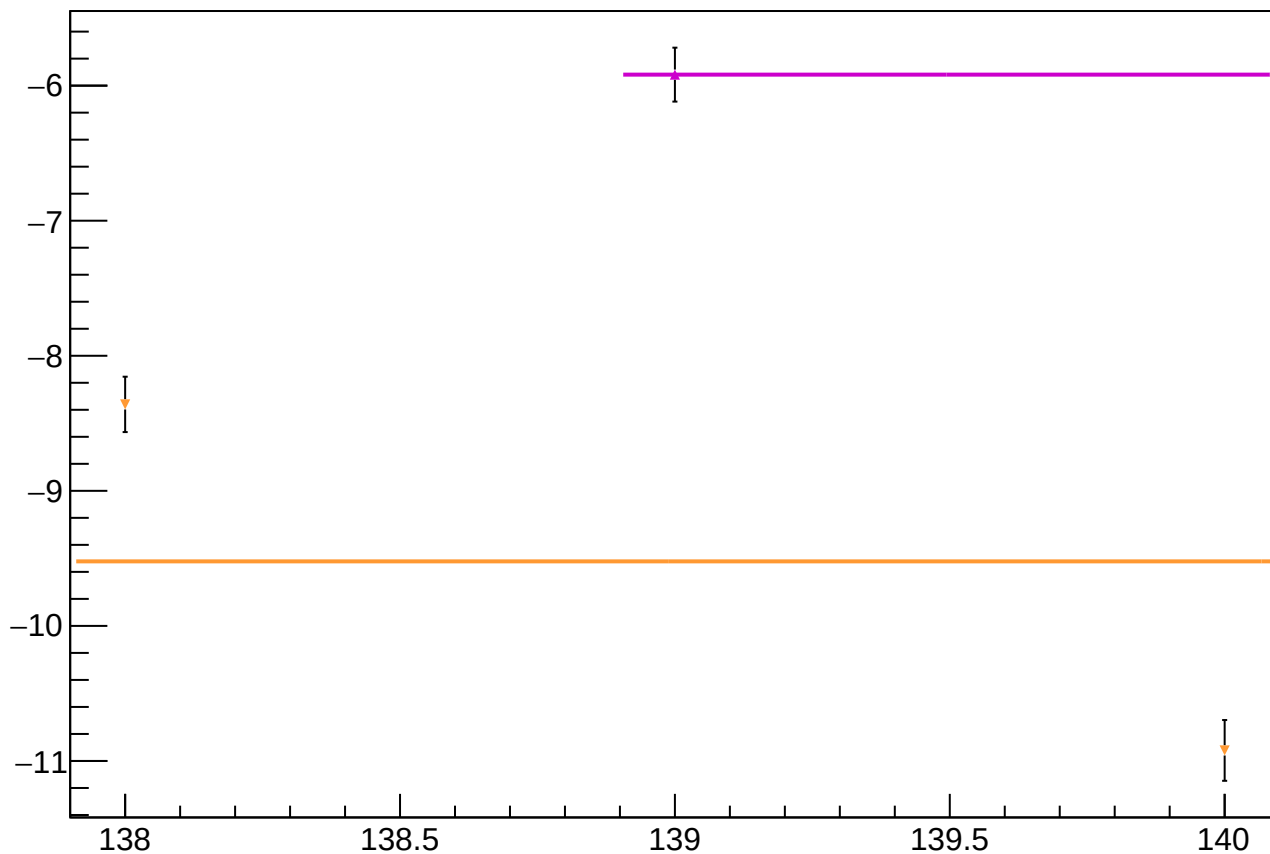
In: 0.181 $\pm$ 0.004  $\chi^2$ /NDF: 755.6/17

Out: 0.190 $\pm$ 0.003  $\chi^2$ /NDF: 1219.1/20

All: 0.186 $\pm$ 0.002  $\chi^2$ /NDF: 1978.4/38



reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-9.522 \pm 0.152$   $\chi^2/\text{NDF}$ : 70.9/1

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-5.919 \pm 0.200$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-8.205 \pm 0.121$   $\chi^2/\text{NDF}$ : 277.6/2

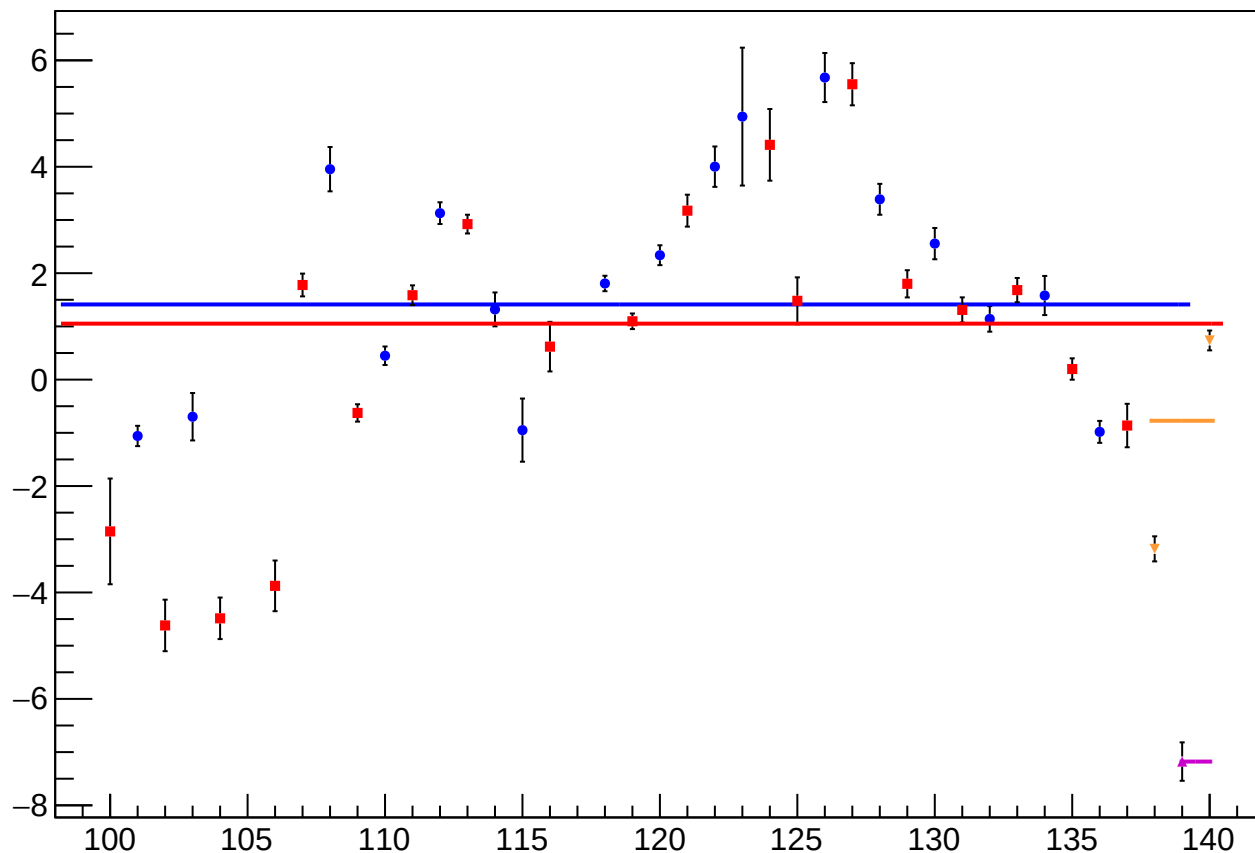
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-5.919 \pm 0.200$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $-9.522 \pm 0.152$   $\chi^2/\text{NDF}$ : 70.9/1

All:  $-8.205 \pm 0.121$   $\chi^2/\text{NDF}$ : 277.6/2

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.413 $\pm$ 0.061  $\chi^2$ /NDF: 713.9/16

Left Out: -0.773 $\pm$ 0.146  $\chi^2$ /NDF:169.9/1

Right Out: 1.052 $\pm$ 0.058  $\chi^2$ /NDF: 963.3/18

Left In: -7.178 $\pm$ 0.361  $\chi^2$ /NDF:0.0/0

Left: -1.675 $\pm$ 0.136  $\chi^2$ /NDF: 440.2/2

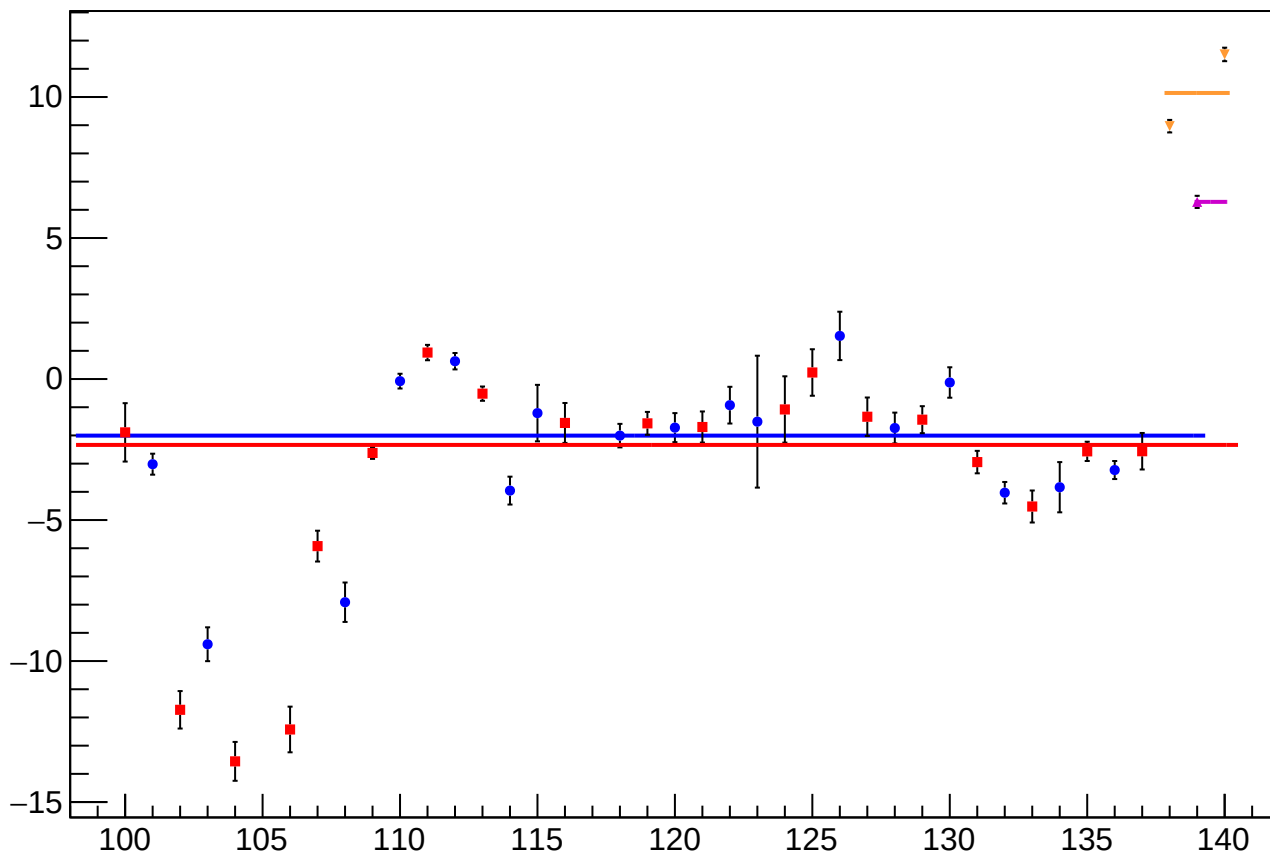
Right: 1.223 $\pm$ 0.042  $\chi^2$ /NDF: 1695.5/35

In: 1.174 $\pm$ 0.060  $\chi^2$ /NDF:1264.0/17

Out: 0.803 $\pm$ 0.054  $\chi^2$ /NDF:1267.8/20

All: 0.968 $\pm$ 0.040  $\chi^2$ /NDF: 2552.9/38

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:  $10.144 \pm 0.163$   $\chi^2/\text{NDF}$ : 60.5/1

Right Out:  $-2.336 \pm 0.099$   $\chi^2/\text{NDF}$ : 901.2/18

Left In:  $6.282 \pm 0.216$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $8.741 \pm 0.130$   $\chi^2/\text{NDF}$ : 264.1/2

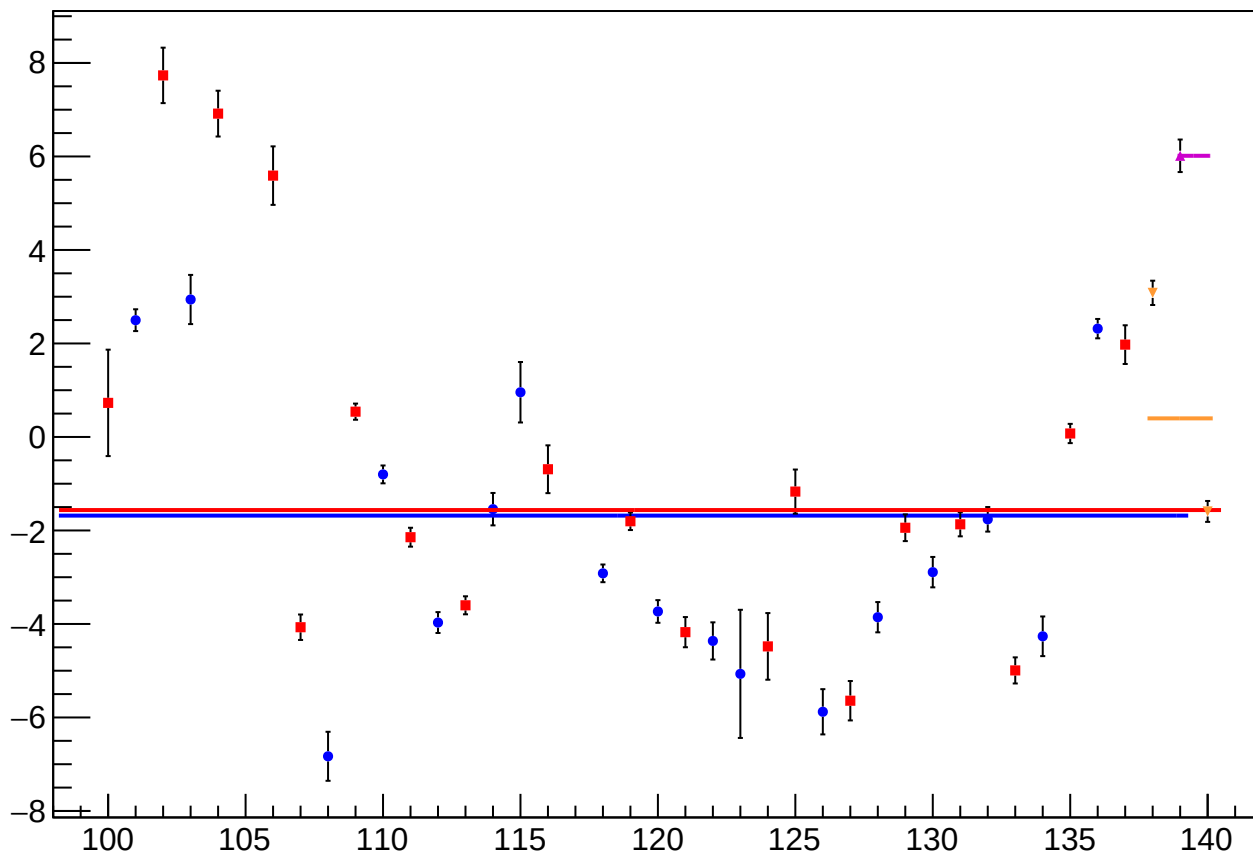
Right:  $-2.190 \pm 0.074$   $\chi^2/\text{NDF}$ : 1369.4/35

In:  $-0.284 \pm 0.098$   $\chi^2/\text{NDF}$ : 1629.9/17

Out:  $1.019 \pm 0.085$   $\chi^2/\text{NDF}$ : 5242.0/20

All:  $0.466 \pm 0.064$   $\chi^2/\text{NDF}$ : 6972.8/38

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:  $0.397 \pm 0.170$   $\chi^2/\text{NDF}$ : 185.8/1

Right Out:  $-1.563 \pm 0.066$   $\chi^2/\text{NDF}$ : 1504.7/18

Left In:  $6.014 \pm 0.348$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.476 \pm 0.152$   $\chi^2/\text{NDF}$ : 396.4/2

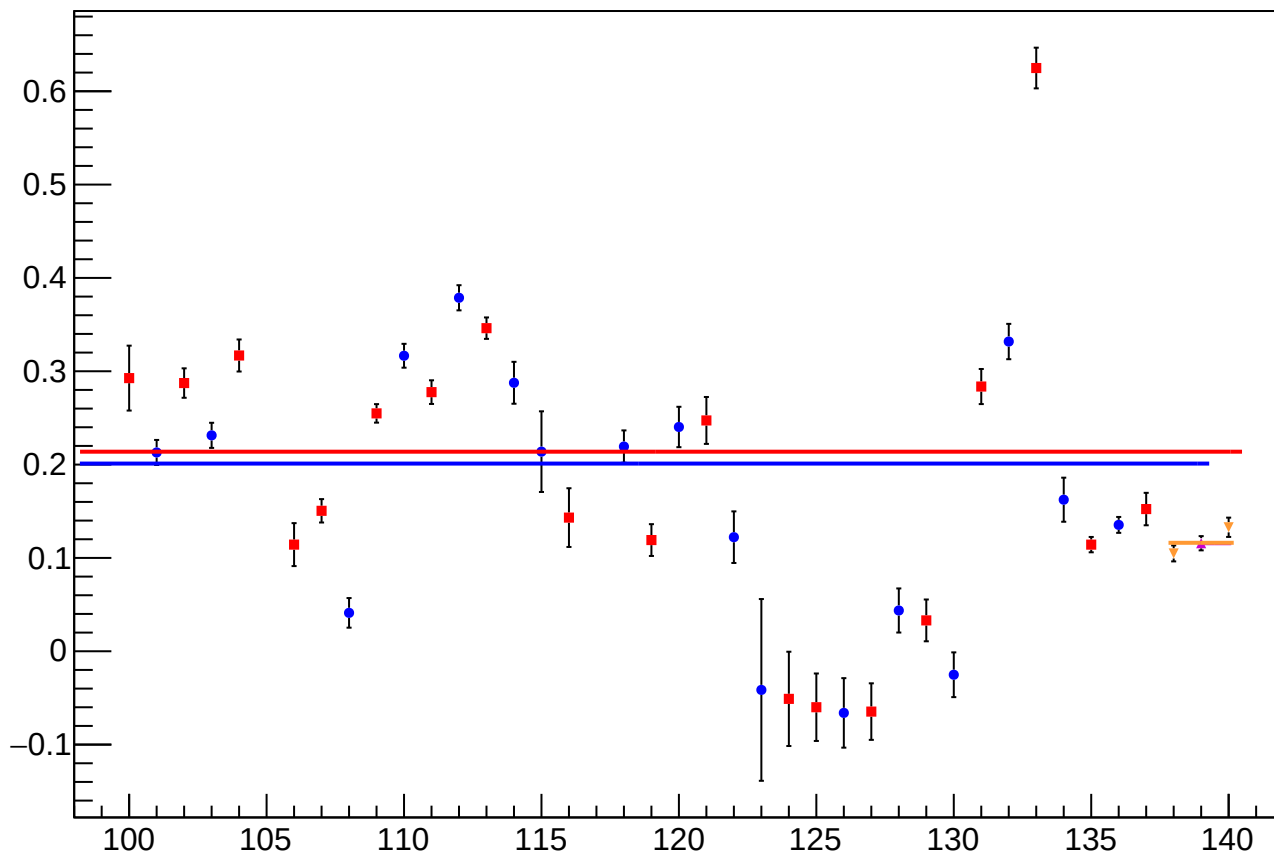
Right:  $-1.619 \pm 0.048$   $\chi^2/\text{NDF}$ : 2854.1/35

In:  $-1.380 \pm 0.069$   $\chi^2/\text{NDF}$ : 1818.0/17

Out:  $-1.308 \pm 0.061$   $\chi^2/\text{NDF}$ : 1806.9/20

All:  $-1.340 \pm 0.046$   $\chi^2/\text{NDF}$ : 3625.4/38

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.201 $\pm$ 0.004  $\chi^2$ /NDF: 691.3/16

Left Out: 0.116 $\pm$ 0.007  $\chi^2$ /NDF: 4.4/1

Right Out: 0.214 $\pm$ 0.004  $\chi^2$ /NDF: 1083.1/18

Left In: 0.116 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left: 0.116 $\pm$ 0.005  $\chi^2$ /NDF: 4.4/2

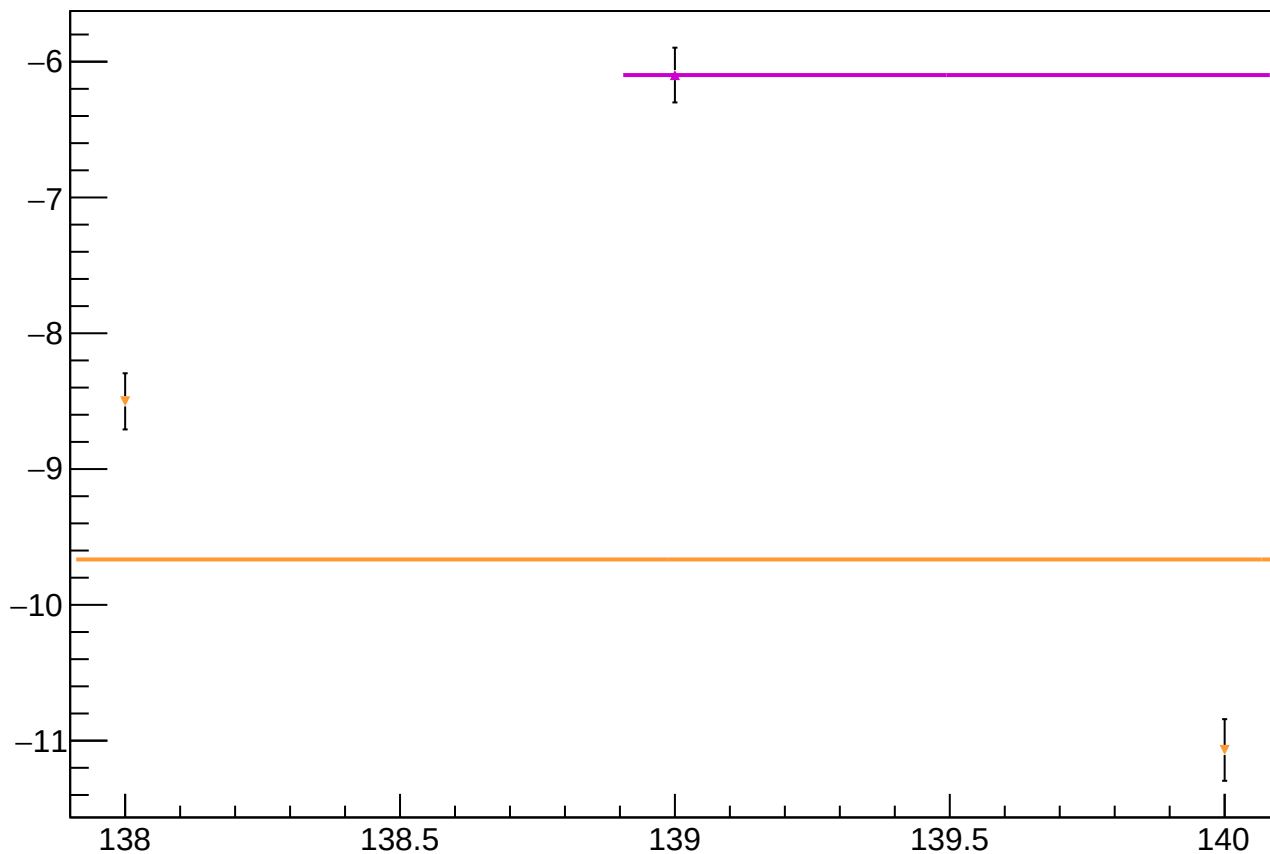
Right: 0.208 $\pm$ 0.003  $\chi^2$ /NDF: 1779.7/35

In: 0.182 $\pm$ 0.004  $\chi^2$ /NDF: 788.1/17

Out: 0.191 $\pm$ 0.003  $\chi^2$ /NDF: 1254.8/20

All: 0.187 $\pm$ 0.002  $\chi^2$ /NDF: 2046.2/38

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: -9.666+/-0.153  $\chi^2/\text{NDF}$ : 69.9/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.099+/-0.202  $\chi^2/\text{NDF}$ : 0.0/0

Left: -8.364+/-0.122  $\chi^2/\text{NDF}$ : 268.6/2

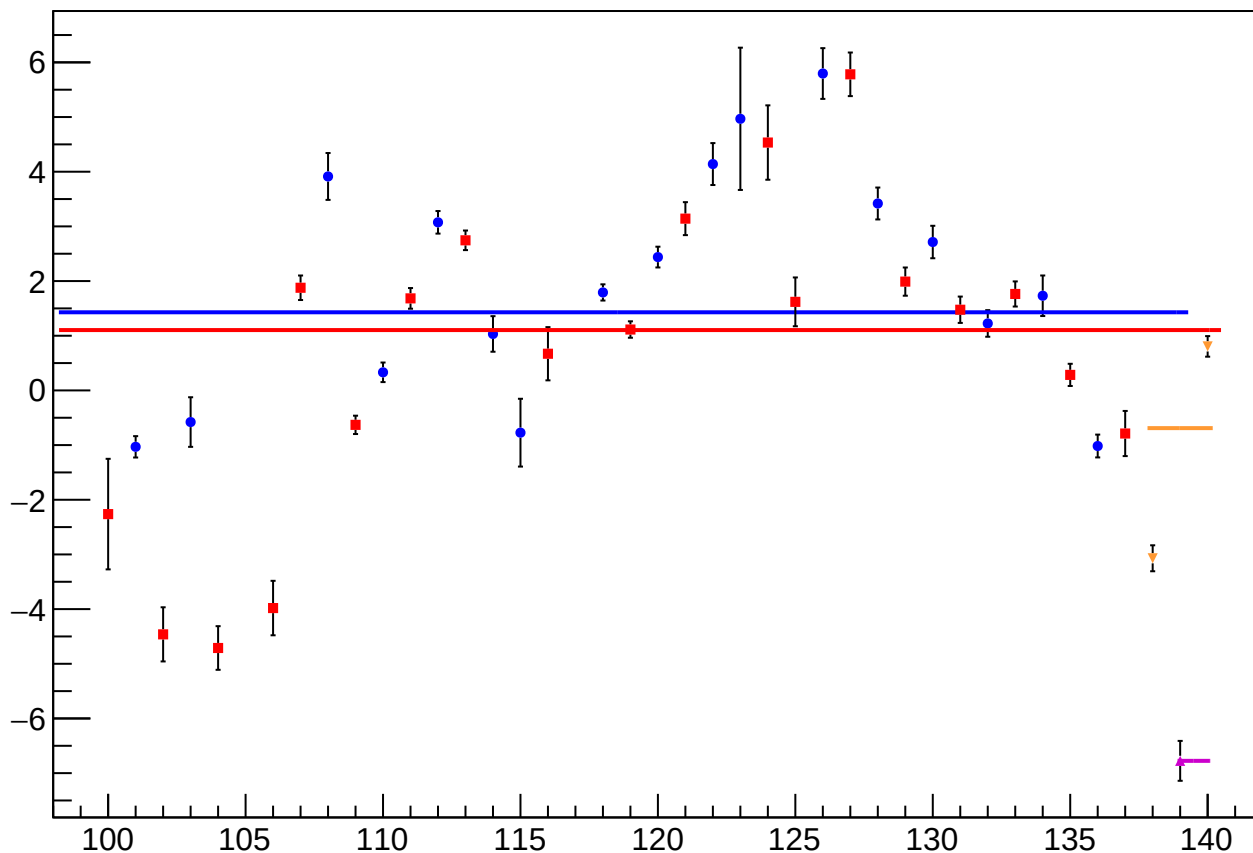
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.099+/-0.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: -9.666+/-0.153  $\chi^2/\text{NDF}$ : 69.9/1

All: -8.364+/-0.122  $\chi^2/\text{NDF}$ : 268.6/2

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:  $-0.690 \pm 0.147$   $\chi^2/\text{NDF}$ : 163.6/1

Right Out:  $1.104 \pm 0.059$   $\chi^2/\text{NDF}$ : 936.5/18

Left In:  $-6.775 \pm 0.365$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.545 \pm 0.137$   $\chi^2/\text{NDF}$ : 402.7/2

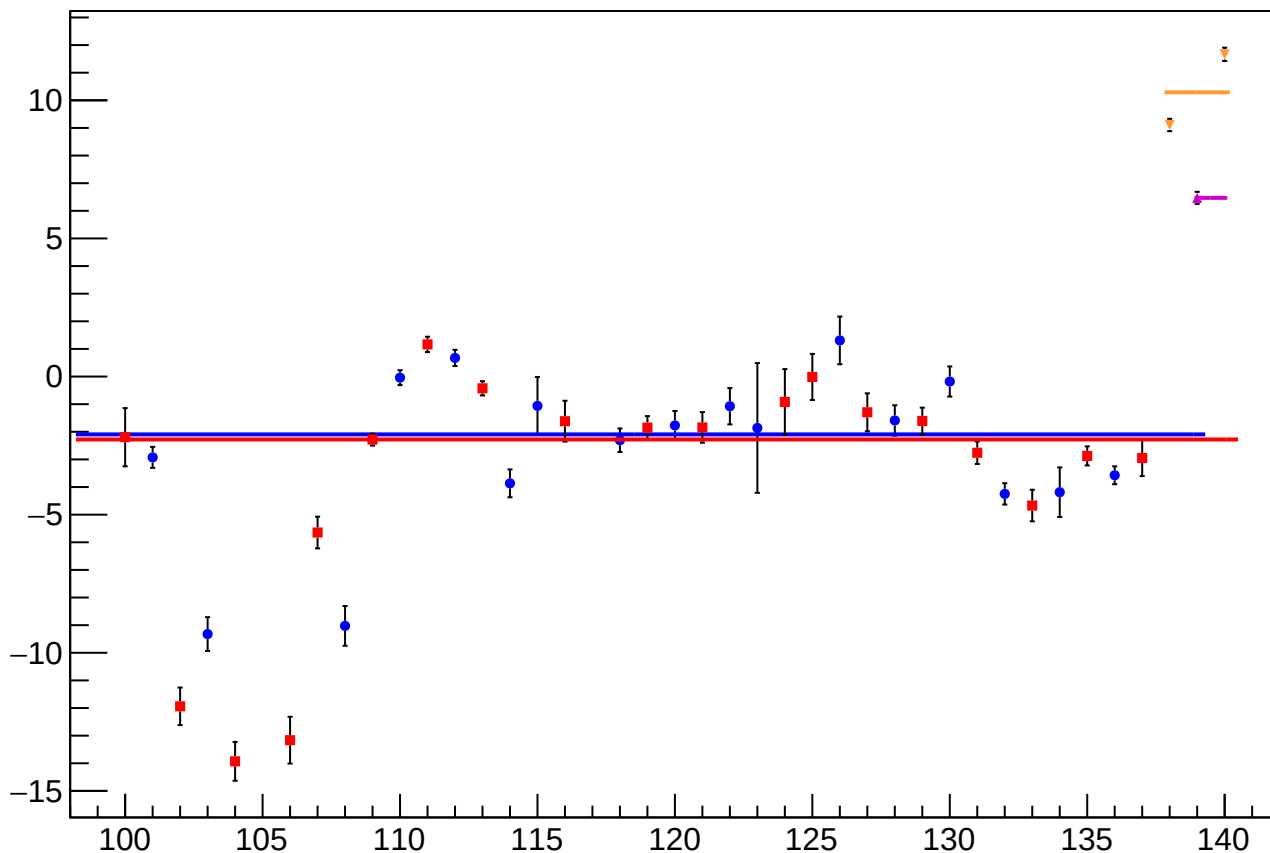
Right:  $1.259 \pm 0.043$   $\chi^2/\text{NDF}$ : 1662.3/35

In:  $1.197 \pm 0.061$   $\chi^2/\text{NDF}$ : 1202.8/17

Out:  $0.854 \pm 0.055$   $\chi^2/\text{NDF}$ : 1227.3/20

All:  $1.007 \pm 0.041$   $\chi^2/\text{NDF}$ : 2447.6/38

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:  $10.291 \pm 0.165$   $\chi^2/\text{NDF}$ : 60.0/1

Right Out:  $-2.278 \pm 0.101$   $\chi^2/\text{NDF}$ : 918.6/18

Left In:  $6.469 \pm 0.218$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $8.905 \pm 0.131$   $\chi^2/\text{NDF}$ : 255.6/2

Right:  $-2.196 \pm 0.075$   $\chi^2/\text{NDF}$ : 1406.6/35

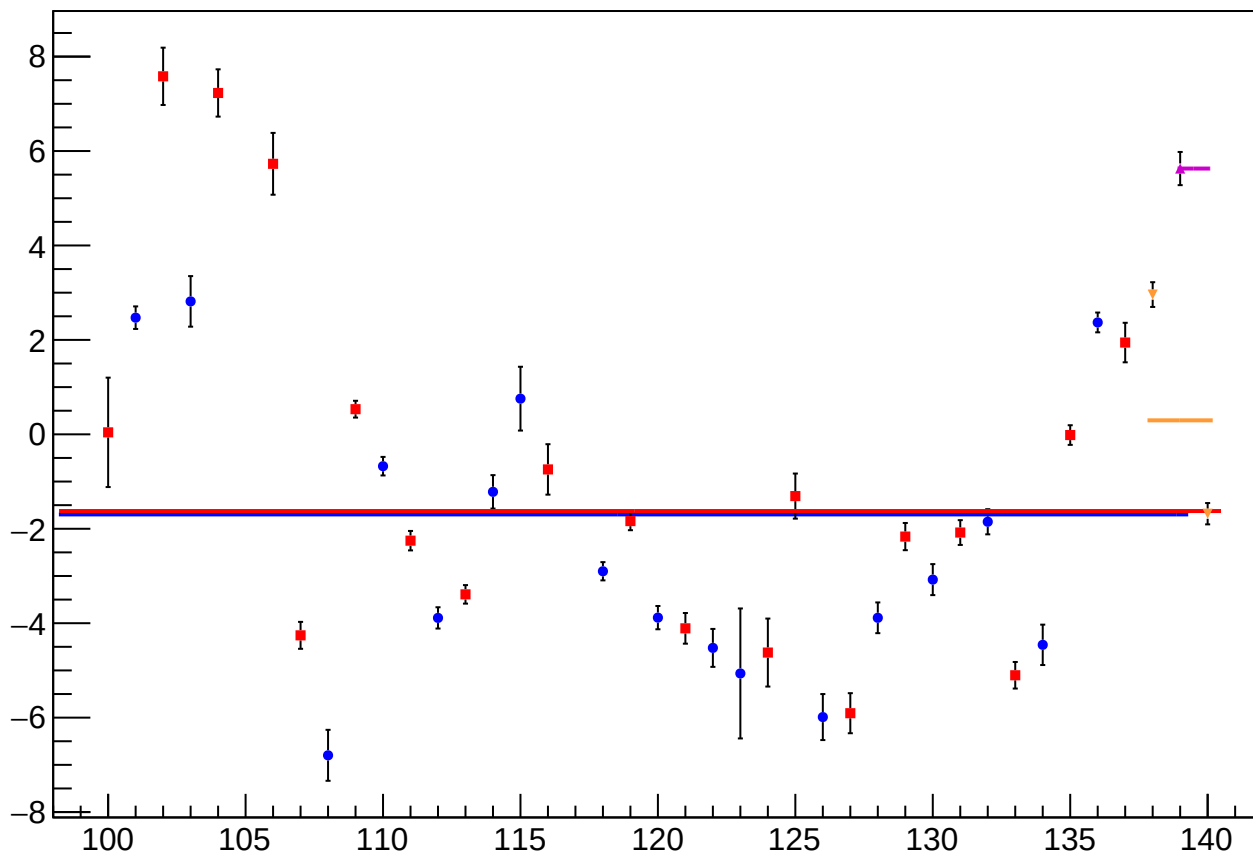
In:  $-0.293 \pm 0.100$   $\chi^2/\text{NDF}$ : 1703.1/17

Out:  $1.162 \pm 0.086$   $\chi^2/\text{NDF}$ : 5215.5/20

All:  $0.543 \pm 0.065$   $\chi^2/\text{NDF}$ : 7040.0/38



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:  $0.296 \pm 0.171$   $\chi^2/\text{NDF}$ : 180.0/1

Right Out:  $-1.624 \pm 0.067$   $\chi^2/\text{NDF}$ : 1467.3/18

Left In:  $5.629 \pm 0.352$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.317 \pm 0.154$   $\chi^2/\text{NDF}$ : 366.0/2

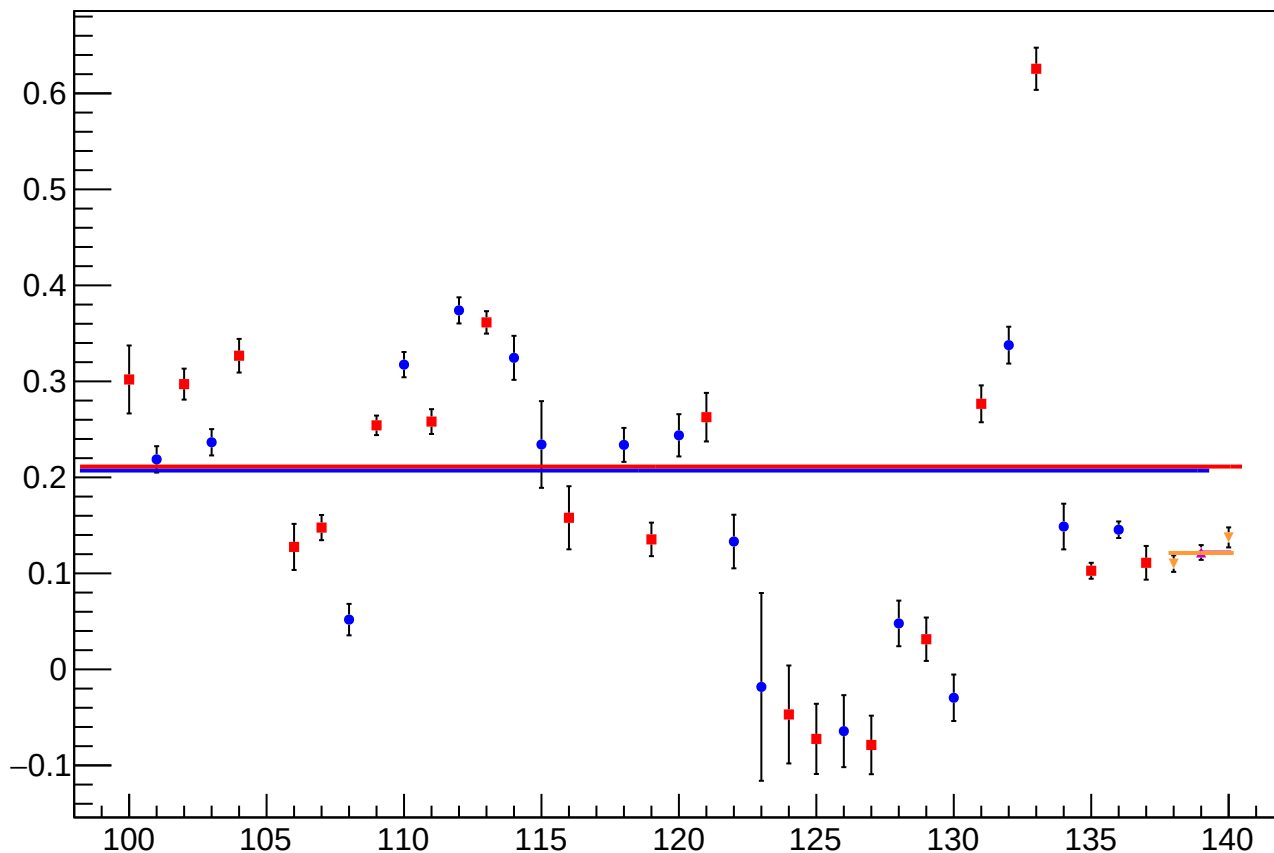
Right:  $-1.658 \pm 0.049$   $\chi^2/\text{NDF}$ : 2801.2/35

In:  $-1.405 \pm 0.070$   $\chi^2/\text{NDF}$ : 1750.2/17

Out:  $-1.369 \pm 0.062$   $\chi^2/\text{NDF}$ : 1756.6/20

All:  $-1.385 \pm 0.047$   $\chi^2/\text{NDF}$ : 3507.0/38

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.207 $\pm$ 0.004  $\chi^2$ /NDF: 656.3/16

Left Out: 0.121 $\pm$ 0.007  $\chi^2$ /NDF: 4.1/1

Right Out: 0.211 $\pm$ 0.004  $\chi^2$ /NDF: 1145.7/18

Left In: 0.122 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left: 0.121 $\pm$ 0.005  $\chi^2$ /NDF: 4.1/2

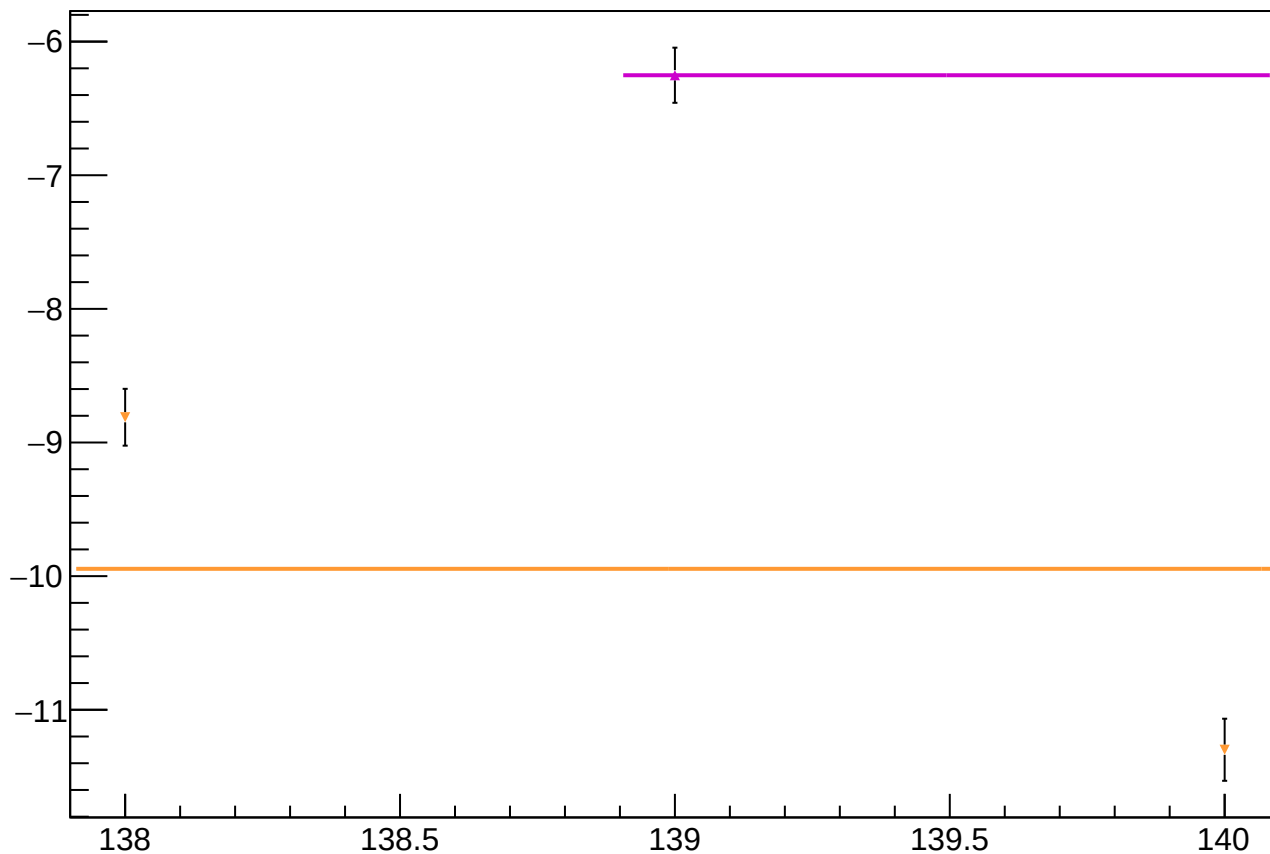
Right: 0.209 $\pm$ 0.003  $\chi^2$ /NDF: 1802.5/35

In: 0.188 $\pm$ 0.004  $\chi^2$ /NDF: 750.9/17

Out: 0.189 $\pm$ 0.003  $\chi^2$ /NDF: 1288.6/20

All: 0.189 $\pm$ 0.002  $\chi^2$ /NDF: 2039.7/38

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: -9.945+/-0.157  $\chi^2/\text{NDF}$ : 62.4/1

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.252+/-0.206  $\chi^2/\text{NDF}$ : 0.0/0

Left: -8.592+/-0.125  $\chi^2/\text{NDF}$ : 265.6/2

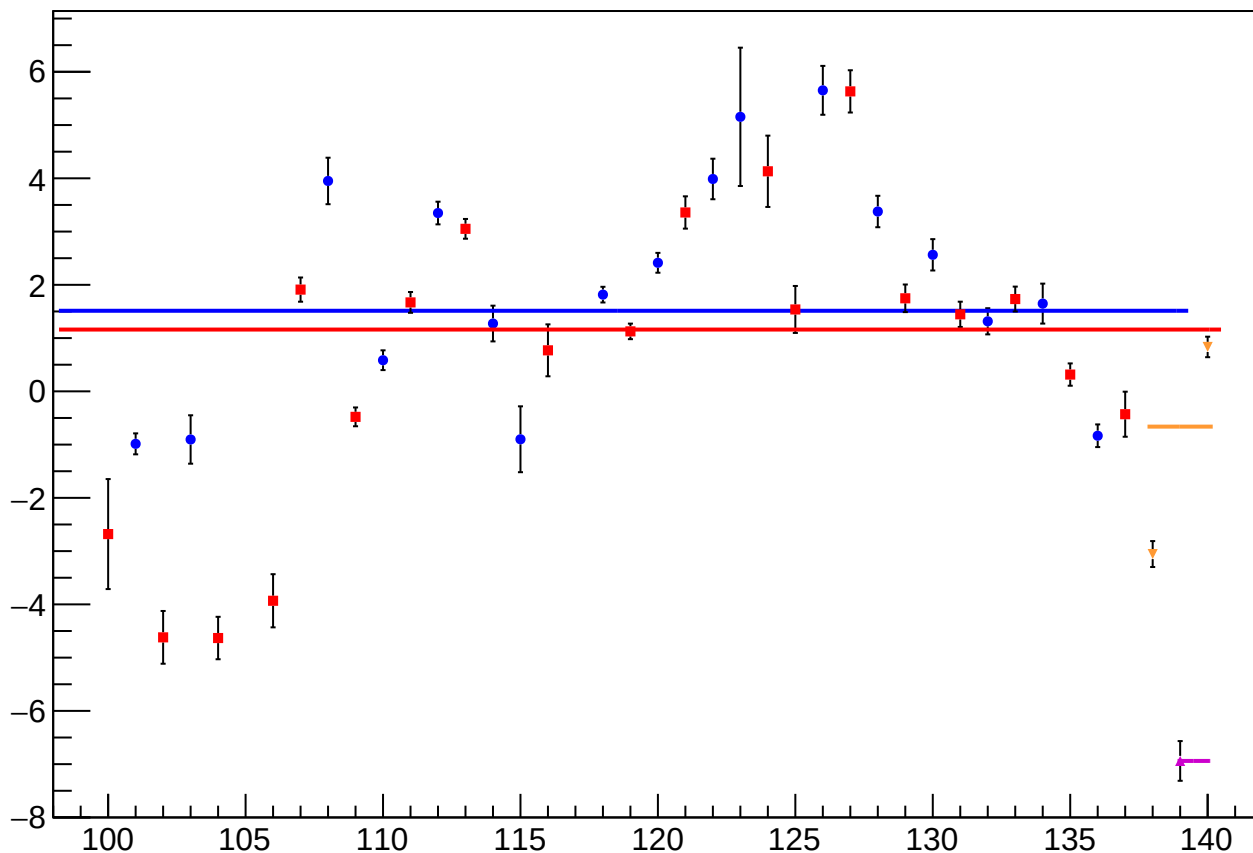
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.252+/-0.206  $\chi^2/\text{NDF}$ : 0.0/0

Out: -9.945+/-0.157  $\chi^2/\text{NDF}$ : 62.4/1

All: -8.592+/-0.125  $\chi^2/\text{NDF}$ : 265.6/2

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:  $-0.662 \pm 0.151$   $\chi^2/\text{NDF}$ : 156.9/1

Right Out:  $1.160 \pm 0.060$   $\chi^2/\text{NDF}$ : 917.0/18

Left In:  $-6.940 \pm 0.373$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $-1.547 \pm 0.140$   $\chi^2/\text{NDF}$ : 400.3/2

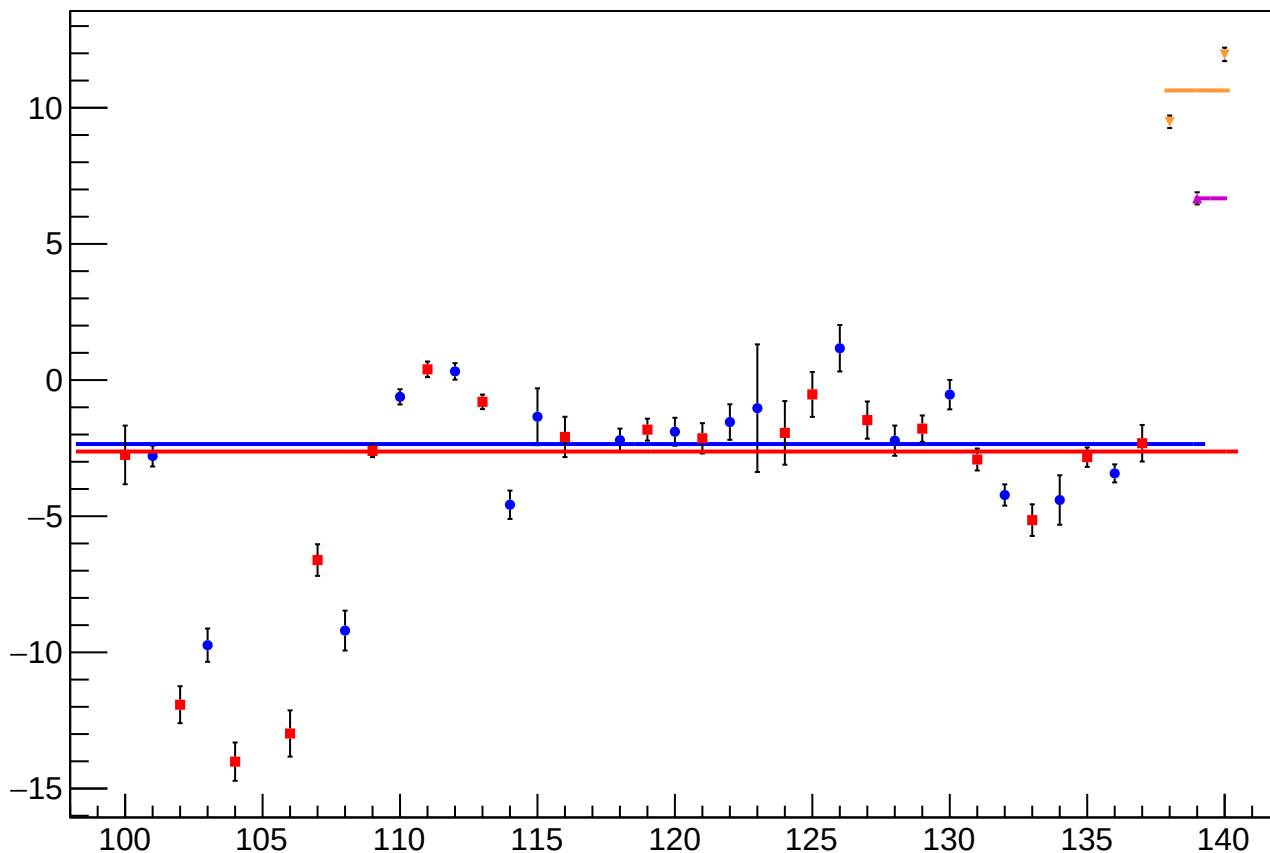
Right:  $1.329 \pm 0.043$   $\chi^2/\text{NDF}$ : 1603.3/35

In:  $1.281 \pm 0.062$   $\chi^2/\text{NDF}$ : 1169.3/17

Out:  $0.911 \pm 0.056$   $\chi^2/\text{NDF}$ : 1199.7/20

All:  $1.077 \pm 0.041$   $\chi^2/\text{NDF}$ : 2388.6/38

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:  $10.636 \pm 0.169$   $\chi^2/\text{NDF}$ : 53.5/1

Right Out:  $-2.624 \pm 0.103$   $\chi^2/\text{NDF}$ : 840.4/18

Left In:  $6.674 \pm 0.223$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $9.194 \pm 0.135$   $\chi^2/\text{NDF}$ : 254.0/2

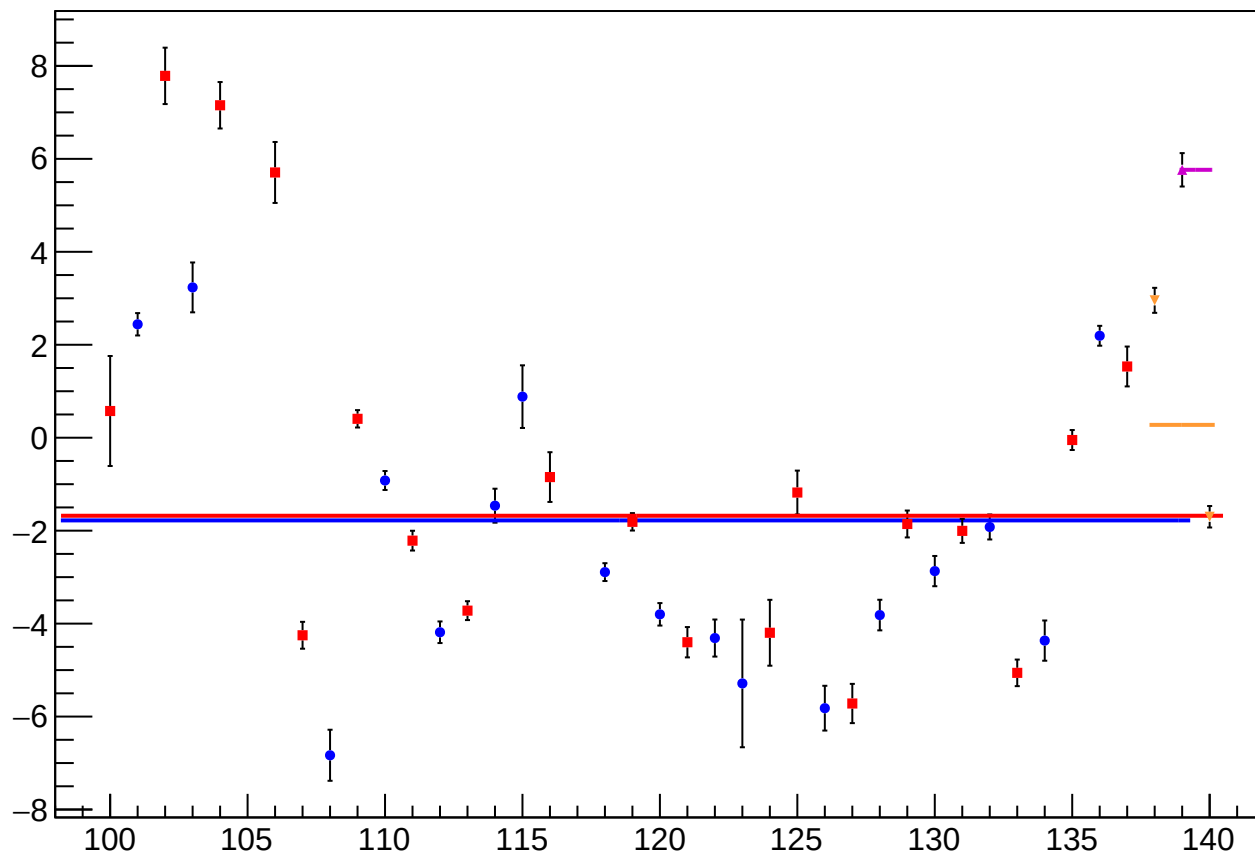
Right:  $-2.501 \pm 0.077$   $\chi^2/\text{NDF}$ : 1283.3/35

In:  $-0.475 \pm 0.102$   $\chi^2/\text{NDF}$ : 1734.8/17

Out:  $0.985 \pm 0.088$   $\chi^2/\text{NDF}$ : 5384.5/20

All:  $0.360 \pm 0.067$   $\chi^2/\text{NDF}$ : 7236.9/38

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:  $0.276 \pm 0.175$   $\chi^2/\text{NDF}$ : 172.5/1

Right Out:  $-1.679 \pm 0.068$   $\chi^2/\text{NDF}$ : 1429.6/18

Left In:  $5.764 \pm 0.359$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $1.331 \pm 0.158$   $\chi^2/\text{NDF}$ : 361.0/2

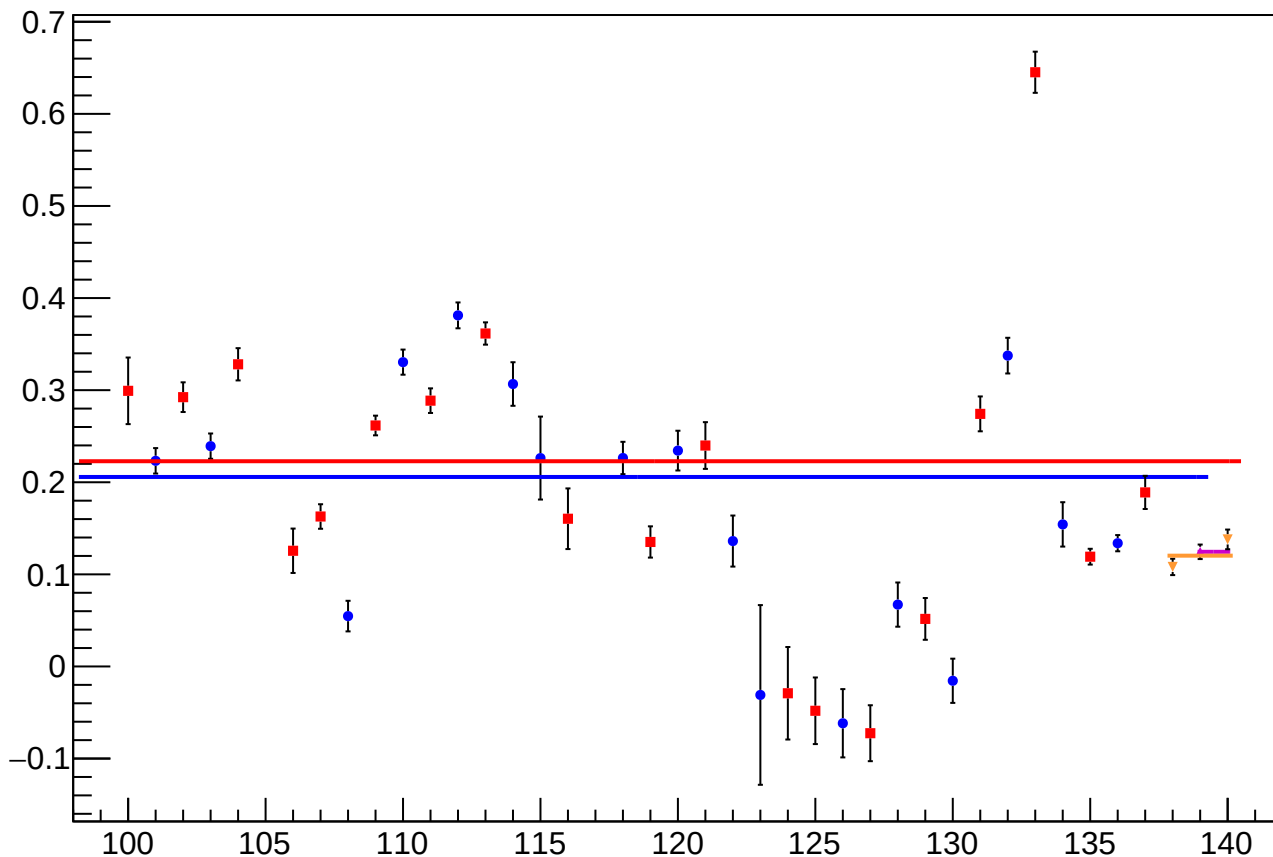
Right:  $-1.726 \pm 0.050$   $\chi^2/\text{NDF}$ : 2702.6/35

In:  $-1.486 \pm 0.071$   $\chi^2/\text{NDF}$ : 1695.7/17

Out:  $-1.423 \pm 0.063$   $\chi^2/\text{NDF}$ : 1710.3/20

All:  $-1.451 \pm 0.047$   $\chi^2/\text{NDF}$ : 3406.4/38

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.206 $\pm$ 0.004  $\chi^2$ /NDF: 651.8/16

Left Out: 0.120 $\pm$ 0.007  $\chi^2$ /NDF: 4.6/1

Right Out: 0.223 $\pm$ 0.004  $\chi^2$ /NDF: 1042.2/18

Left In: 0.124 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left: 0.122 $\pm$ 0.005  $\chi^2$ /NDF: 4.8/2

Right: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 1702.9/35

In: 0.187 $\pm$ 0.004  $\chi^2$ /NDF: 734.2/17

Out: 0.198 $\pm$ 0.003  $\chi^2$ /NDF: 1218.3/20

All: 0.193 $\pm$ 0.002  $\chi^2$ /NDF: 1957.1/38