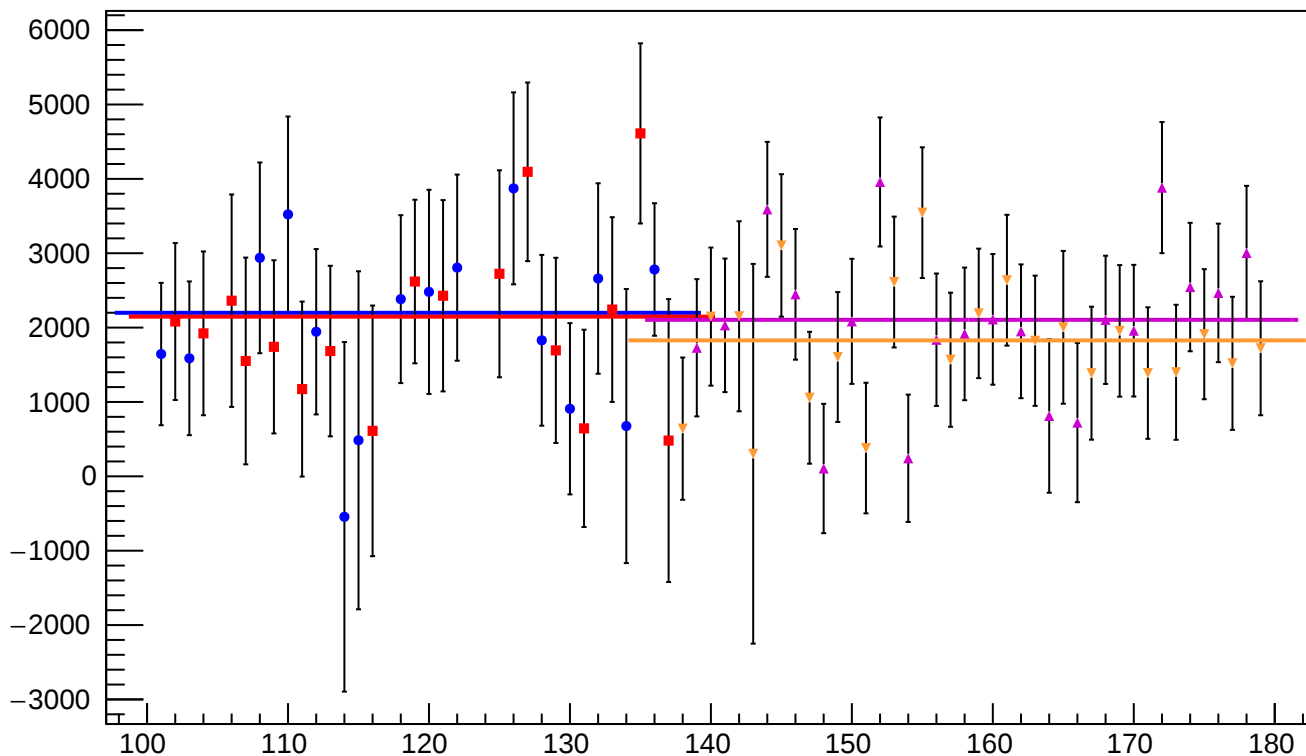


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2198.880±/306.767

Left Out: 1828.059±/198.127

Right Out: 2147.149±/304.804

Left In: 2104.498±/200.634

$\chi^2/\text{NDF}$ : 8.6/15

$\chi^2/\text{NDF}$ :14.0/21

$\chi^2/\text{NDF}$ : 11.4/16

$\chi^2/\text{NDF}$ :26.5/19

Left: 1964.541±/140.975

Right: 2172.848±/216.219

In: 2132.775±/167.911

Out: 1922.836±/166.117

All: 2026.678±/118.092

$\chi^2/\text{NDF}$ : 41.5/41

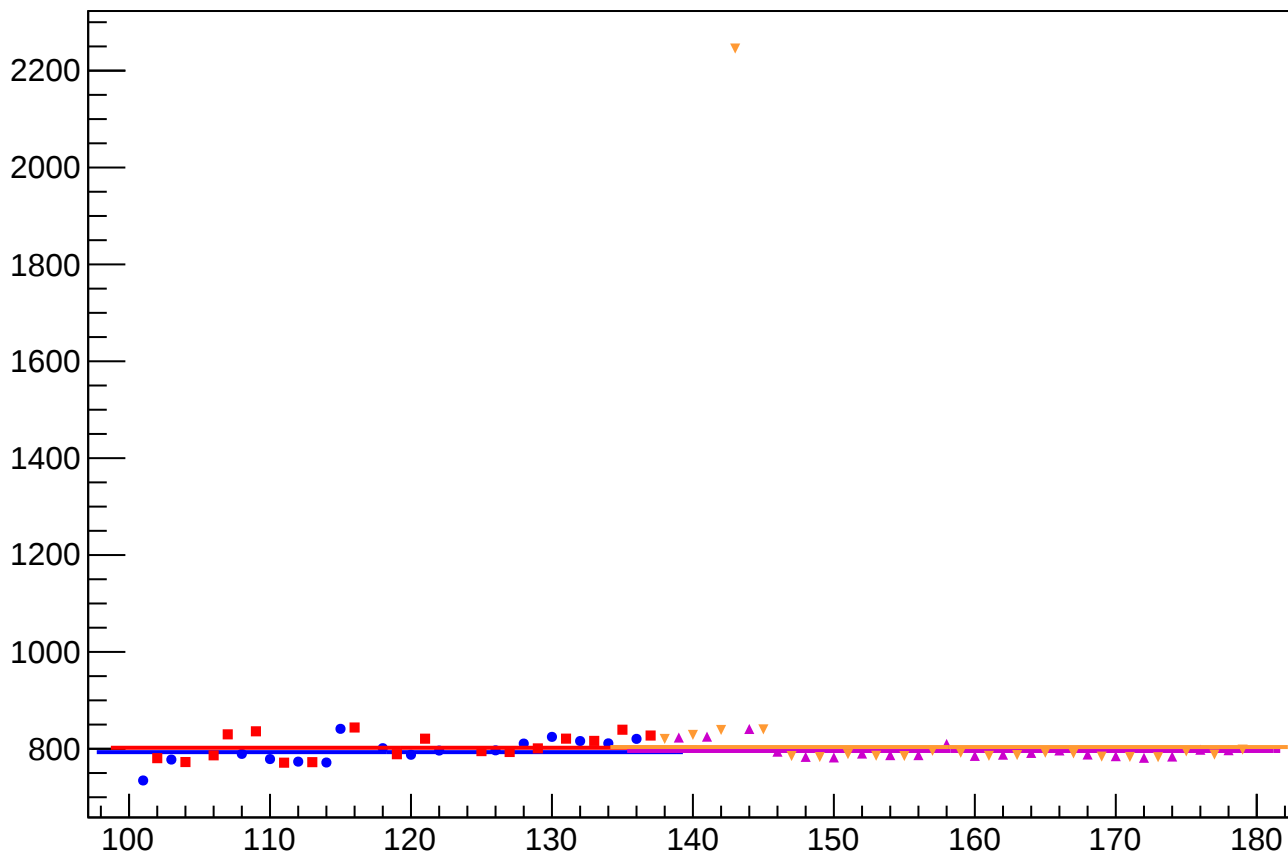
$\chi^2/\text{NDF}$ : 20.0/32

$\chi^2/\text{NDF}$ :35.1/35

$\chi^2/\text{NDF}$ :26.2/38

$\chi^2/\text{NDF}$ : 62.1/74

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



Right In: 793.091+/-0.217  $\chi^2/\text{NDF}$ : 14703.0/15

Left Out: 803.601+/-0.140  $\chi^2/\text{NDF}$ : 655652.8/21

Right Out: 802.148+/-0.216  $\chi^2/\text{NDF}$ : 12723.5/16

Left In: 795.488+/-0.142  $\chi^2/\text{NDF}$ : 12647.0/19

Left: 799.595+/-0.100  $\chi^2/\text{NDF}$ : 669955.4/41

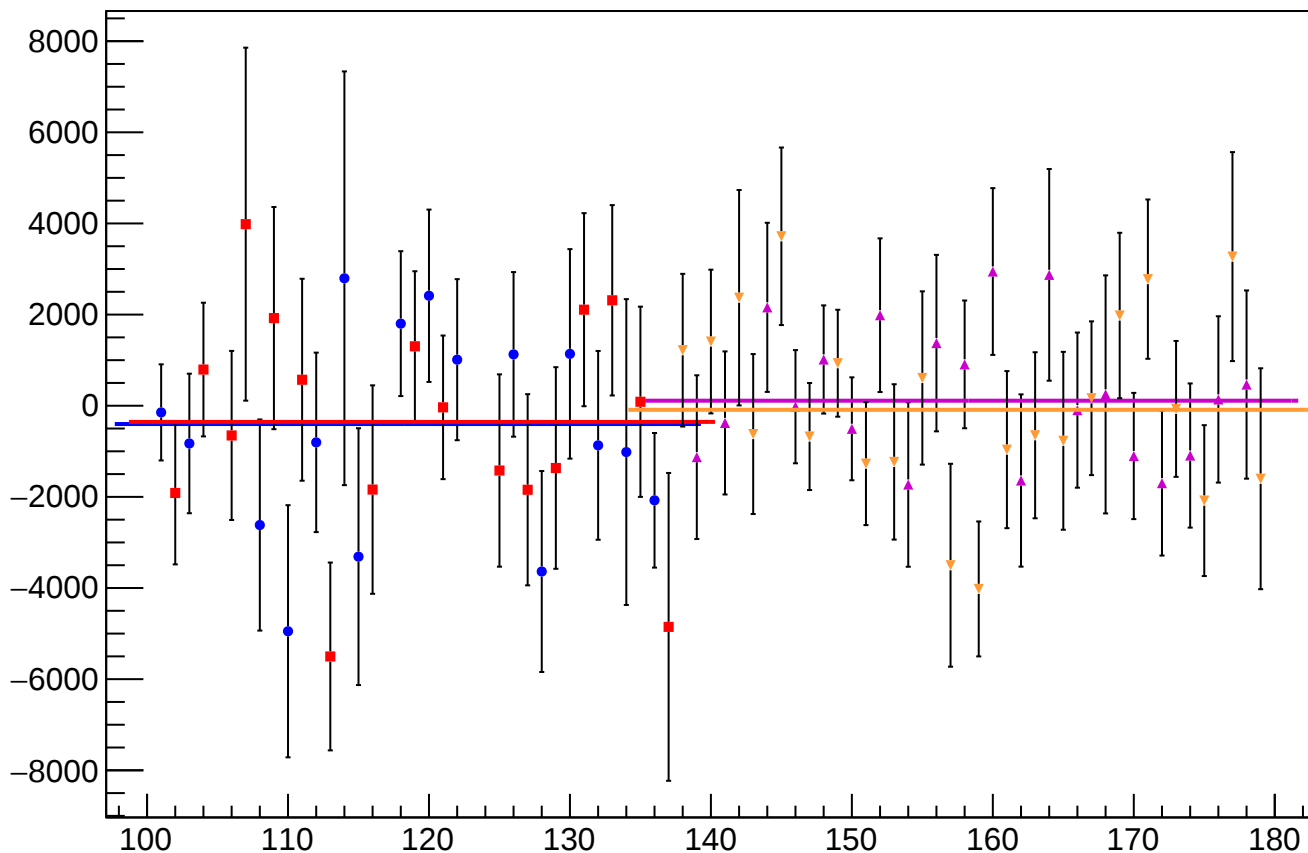
Right: 797.648+/-0.153  $\chi^2/\text{NDF}$ : 28303.8/32

In: 794.770+/-0.119  $\chi^2/\text{NDF}$ : 27435.6/35

Out: 803.169+/-0.117  $\chi^2/\text{NDF}$ : 668408.2/38

All: 799.014+/-0.084  $\chi^2/\text{NDF}$ : 698373.0/74

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



Right In: -401.464+/-468.669  $\chi^2/\text{NDF}$ : 14.8/15

Left Out: -88.814+/-356.608  $\chi^2/\text{NDF}$ : 26.7/21

Right Out: -354.462+/-486.525  $\chi^2/\text{NDF}$ : 17.4/16

Left In: 110.704+/-360.613  $\chi^2/\text{NDF}$ : 13.1/19

Left: 9.831+/-253.564  $\chi^2/\text{NDF}$ : 40.0/41

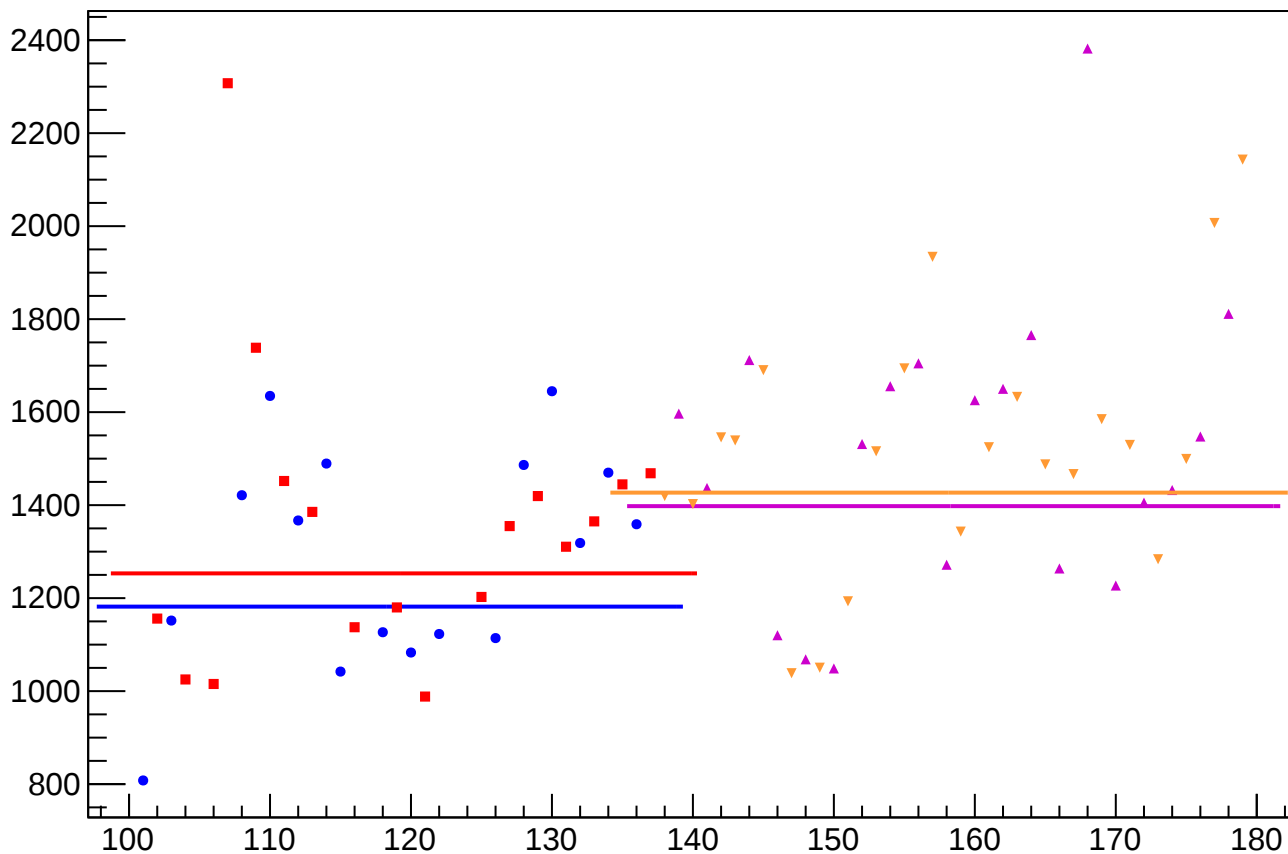
Right: -378.842+/-337.535  $\chi^2/\text{NDF}$ : 32.2/32

In: -79.758+/-285.801  $\chi^2/\text{NDF}$ : 28.6/35

Out: -181.654+/-287.620  $\chi^2/\text{NDF}$ : 44.3/38

All: -130.383+/-202.732  $\chi^2/\text{NDF}$ : 73.1/74

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



Right In: 1181.767 $\pm$ 0.331  $\chi^2$ /NDF: 543493.3/15

Left Out: 1426.925 $\pm$ 0.252  $\chi^2$ /NDF:1072188.1/21

Right Out: 1253.221 $\pm$ 0.344  $\chi^2$ /NDF: 455640.3/16

Left In: 1397.854 $\pm$ 0.255  $\chi^2$ /NDF:1186271.5/19

Left: 1412.552 $\pm$ 0.179  $\chi^2$ /NDF: 2265031.1/41

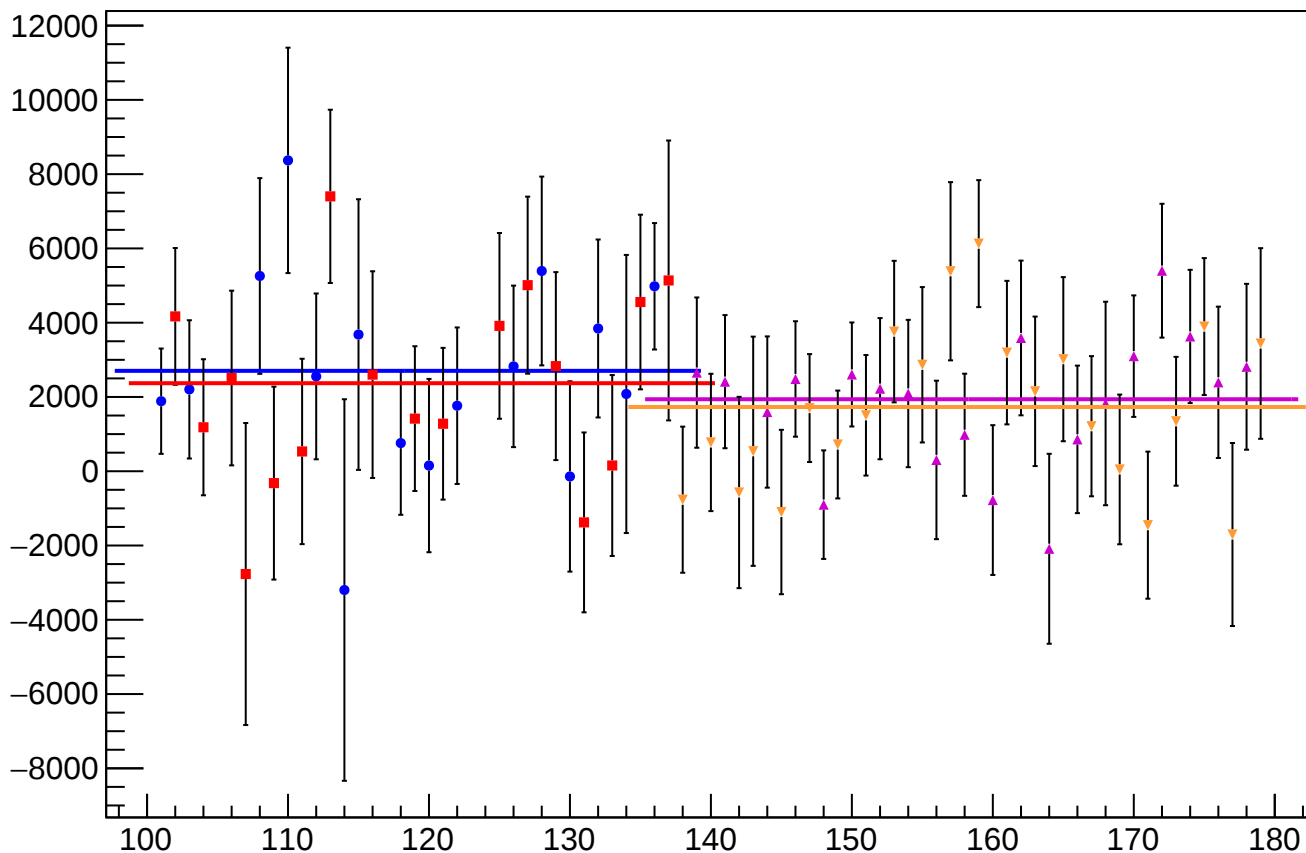
Right: 1216.159 $\pm$ 0.239  $\chi^2$ /NDF: 1021509.6/32

In: 1317.497 $\pm$ 0.202  $\chi^2$ /NDF:1996821.5/35

Out: 1366.218 $\pm$ 0.203  $\chi^2$ /NDF:1693671.4/38

All: 1341.703 $\pm$ 0.143  $\chi^2$ /NDF: 3719369.5/74

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



Right In: 2703.689+/-564.506  $\chi^2/\text{NDF}$ : 13.0/15

Left Out: 1729.931+/-415.138  $\chi^2/\text{NDF}$ : 23.5/21

Right Out: 2370.617+/-573.481  $\chi^2/\text{NDF}$ : 16.0/16

Left In: 1938.556+/-416.730  $\chi^2/\text{NDF}$ : 15.8/19

Left: 1833.844+/-294.108  $\chi^2/\text{NDF}$ : 39.4/41

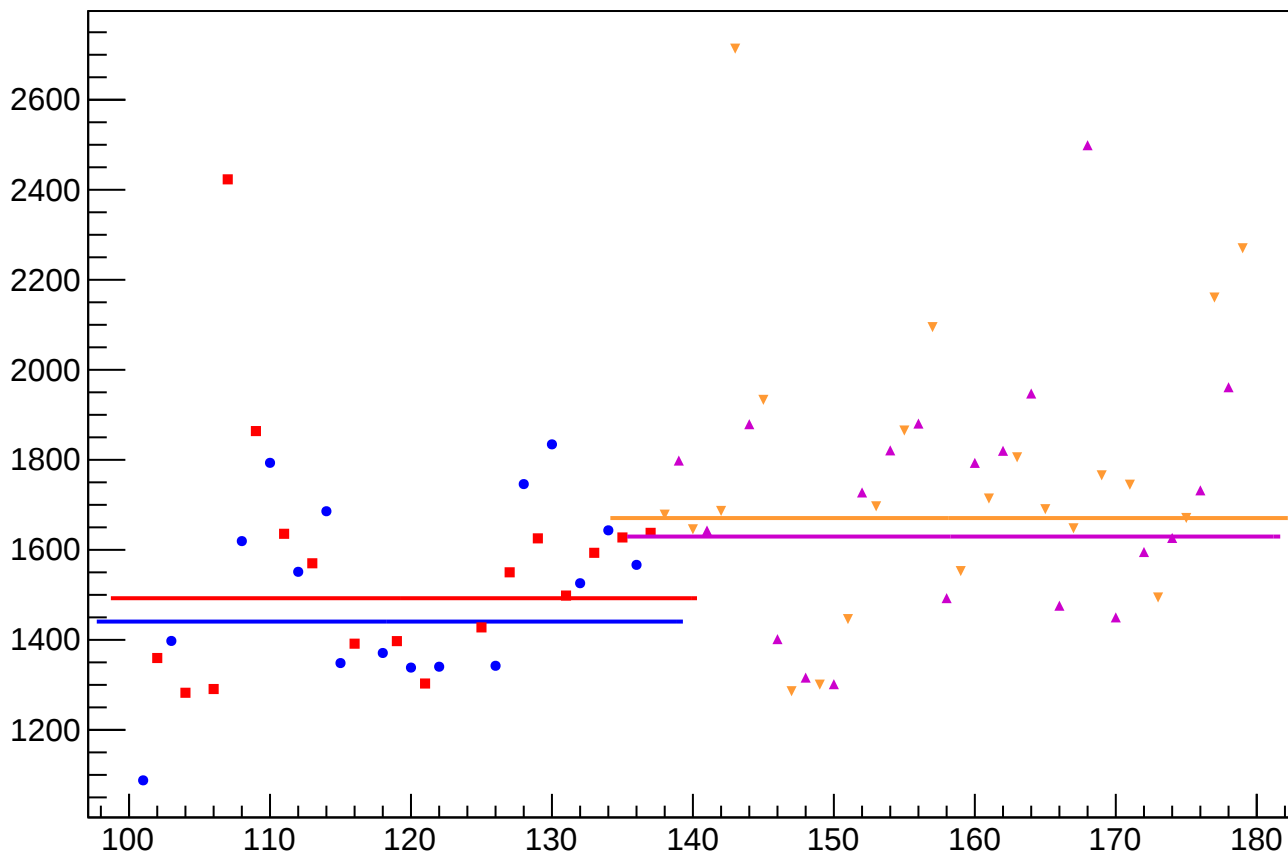
Right: 2539.780+/-402.301  $\chi^2/\text{NDF}$ : 29.2/32

In: 2208.448+/-335.270  $\chi^2/\text{NDF}$ : 30.0/35

Out: 1950.225+/-336.277  $\chi^2/\text{NDF}$ : 40.3/38

All: 2079.724+/-237.427  $\chi^2/\text{NDF}$ : 70.6/74

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



Right In: 1440.653 $\pm$ 0.399  $\chi^2$ /NDF: 282262.6/15

Left Out: 1670.638 $\pm$ 0.294  $\chi^2$ /NDF: 881599.5/21

Right Out: 1492.529 $\pm$ 0.406  $\chi^2$ /NDF: 251506.2/16

Left In: 1629.558 $\pm$ 0.295  $\chi^2$ /NDF: 702408.4/19

Left: 1650.177 $\pm$ 0.208  $\chi^2$ /NDF: 1593762.7/41

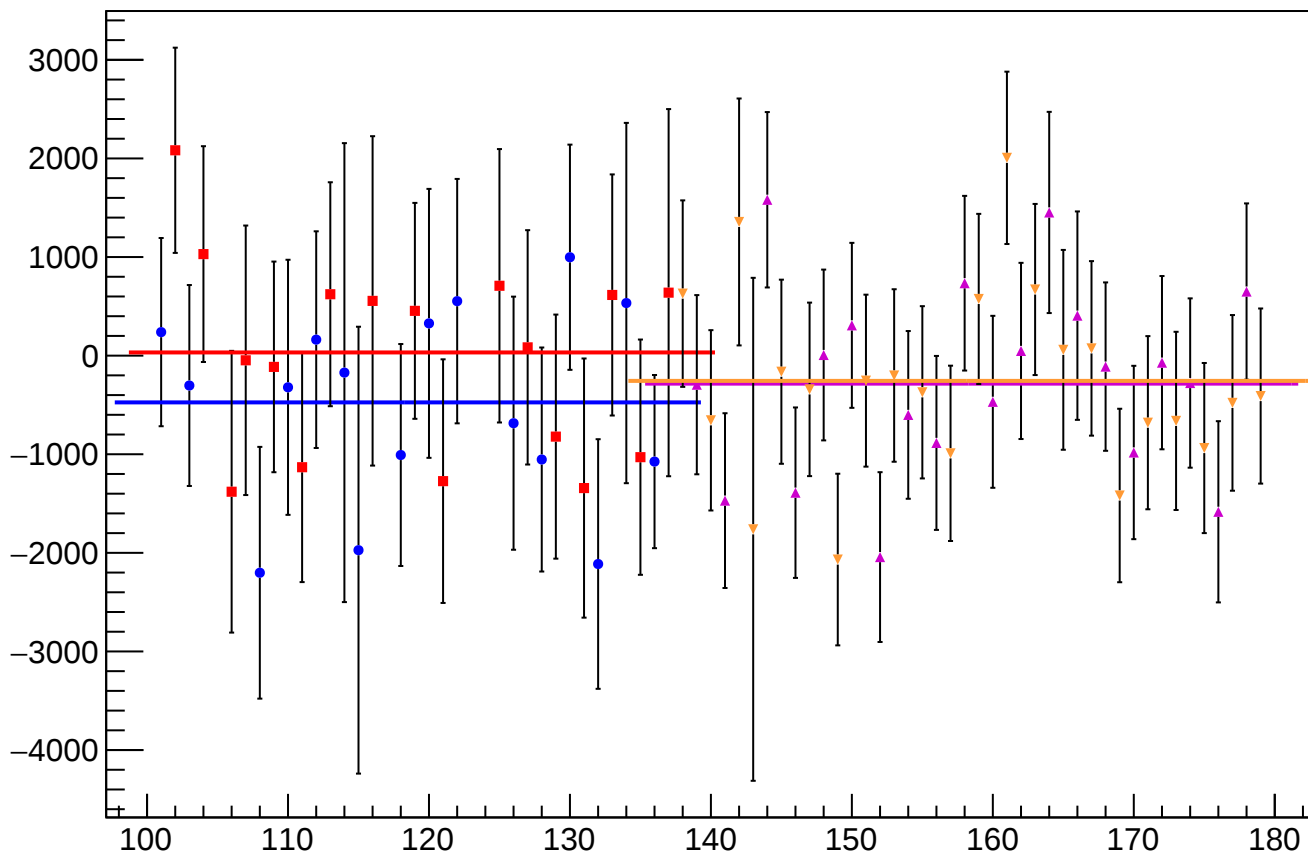
Right: 1466.182 $\pm$ 0.284  $\chi^2$ /NDF: 542080.9/32

In: 1562.924 $\pm$ 0.237  $\chi^2$ /NDF: 1129635.6/35

Out: 1609.397 $\pm$ 0.238  $\chi^2$ /NDF: 1259687.9/38

All: 1586.091 $\pm$ 0.168  $\chi^2$ /NDF: 2408480.2/74

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



Right In: -474.136+/-303.914  $\chi^2/\text{NDF}$ : 8.9/15

Left Out: -256.020+/-196.199  $\chi^2/\text{NDF}$ : 20.0/21

Right Out: 32.454+/-299.611  $\chi^2/\text{NDF}$ : 11.3/16

Left In: -283.746+/-198.751  $\chi^2/\text{NDF}$ : 21.9/19

Left: -269.704+/-139.627  $\chi^2/\text{NDF}$ : 41.9/41

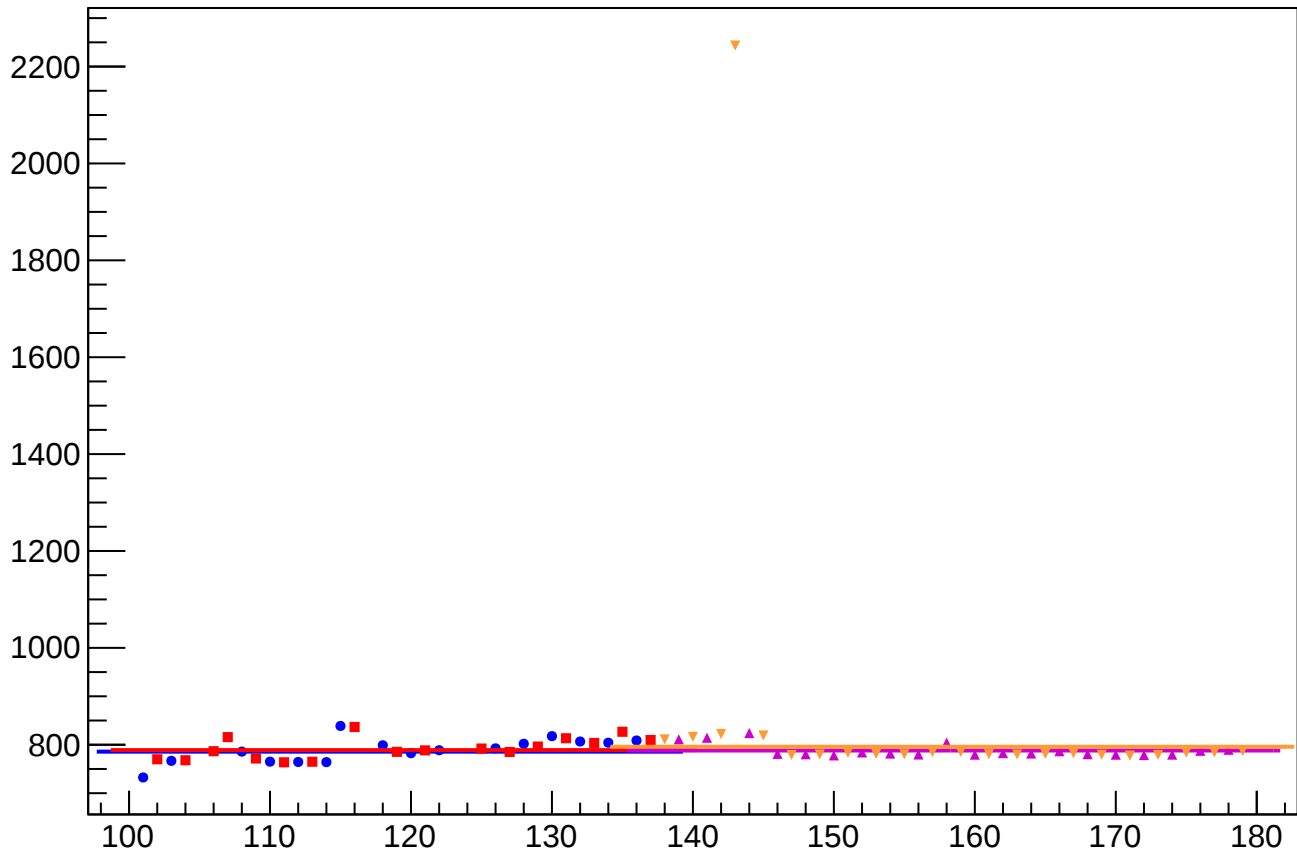
Right: -217.229+/-213.362  $\chi^2/\text{NDF}$ : 21.6/32

In: -340.779+/-166.339  $\chi^2/\text{NDF}$ : 31.0/35

Out: -169.442+/-164.137  $\chi^2/\text{NDF}$ : 32.0/38

All: -253.969+/-116.833  $\chi^2/\text{NDF}$ : 63.5/74

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



Right In: 785.746 $\pm$ 0.215  $\chi^2$ /NDF: 13921.5/15

Left Out: 795.844 $\pm$ 0.139  $\chi^2$ /NDF: 656854.2/21

Right Out: 788.940 $\pm$ 0.212  $\chi^2$ /NDF: 9525.0/16

Left In: 788.109 $\pm$ 0.141  $\chi^2$ /NDF: 9063.2/19

Left: 792.026 $\pm$ 0.099  $\chi^2$ /NDF: 667451.6/41

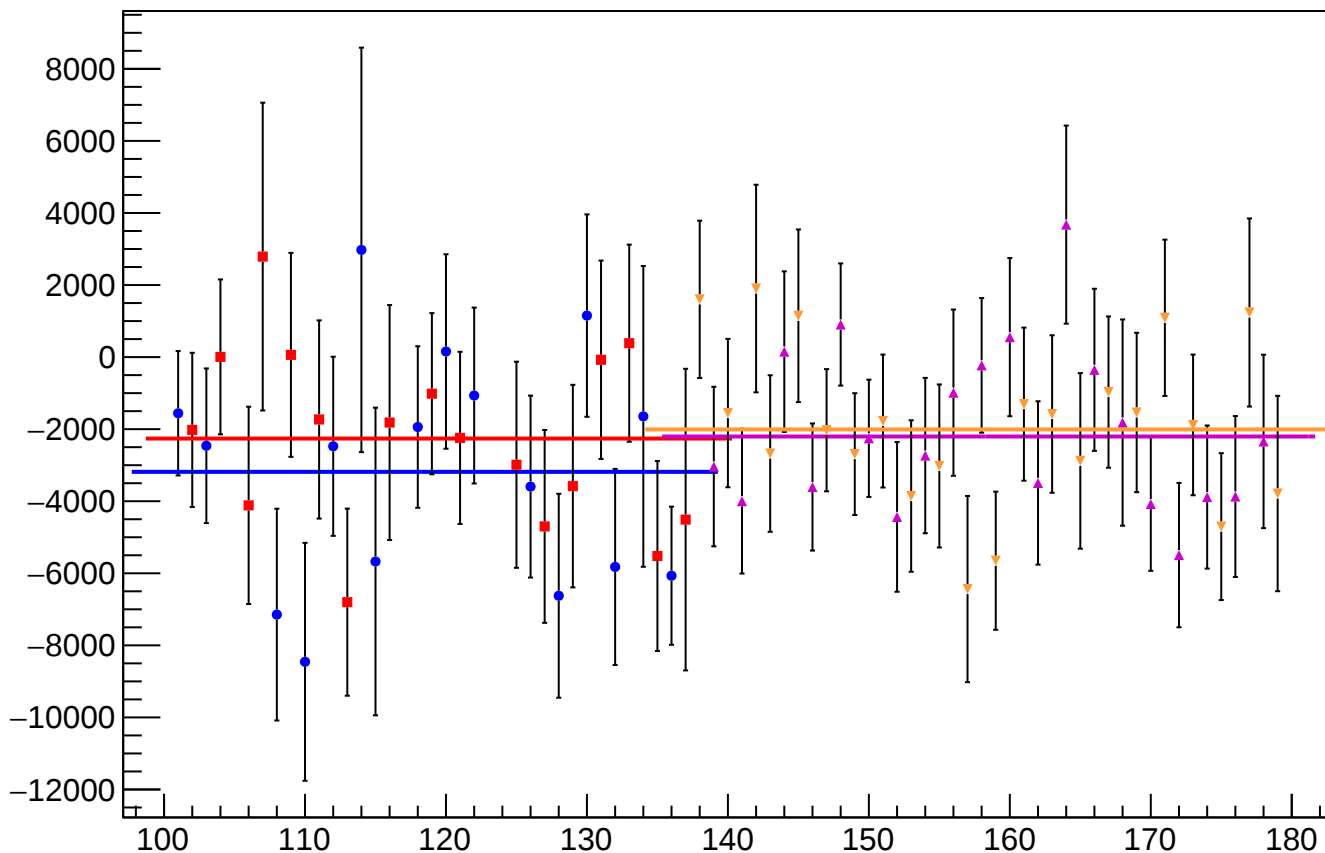
Right: 787.366 $\pm$ 0.151  $\chi^2$ /NDF: 23558.6/32

In: 787.401 $\pm$ 0.118  $\chi^2$ /NDF: 23069.3/35

Out: 793.772 $\pm$ 0.116  $\chi^2$ /NDF: 667122.3/38

All: 790.629 $\pm$ 0.083  $\chi^2$ /NDF: 691678.2/74

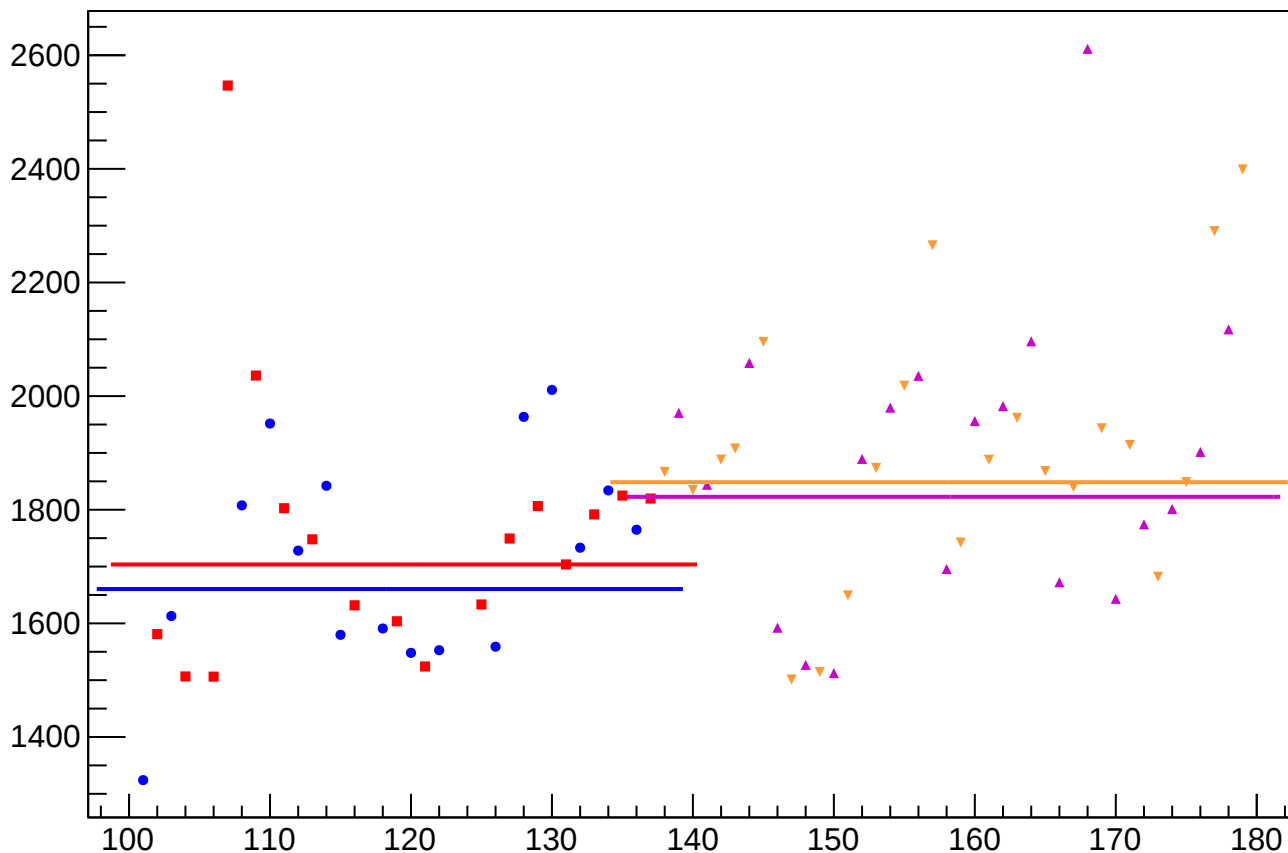
asym\_us\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-3184.522 \pm 647.361$   $\chi^2/\text{NDF}$ : 16.8/15  
 Left Out:  $-2007.652 \pm 455.654$   $\chi^2/\text{NDF}$ : 20.5/21  
 Right Out:  $-2260.241 \pm 651.957$   $\chi^2/\text{NDF}$ : 11.6/16  
 Left In:  $-2203.556 \pm 464.096$   $\chi^2/\text{NDF}$ : 20.8/19

Left:  $-2103.806 \pm 325.140$   $\chi^2/\text{NDF}$ : 41.4/41  
 Right:  $-2725.651 \pm 459.370$   $\chi^2/\text{NDF}$ : 29.4/32  
 In:  $-2536.571 \pm 377.183$   $\chi^2/\text{NDF}$ : 39.2/35  
 Out:  $-2090.543 \pm 373.479$   $\chi^2/\text{NDF}$ : 32.2/38  
 All:  $-2311.357 \pm 265.389$   $\chi^2/\text{NDF}$ : 72.0/74

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



Right In: 1660.462 $\pm$ 0.458  $\chi^2$ /NDF: 179206.0/15

Left Out: 1848.490 $\pm$ 0.322  $\chi^2$ /NDF: 444559.6/21

Right Out: 1703.679 $\pm$ 0.461  $\chi^2$ /NDF: 171025.5/16

Left In: 1822.754 $\pm$ 0.328  $\chi^2$ /NDF: 488853.3/19

Left: 1835.858 $\pm$ 0.230  $\chi^2$ /NDF: 936544.7/41

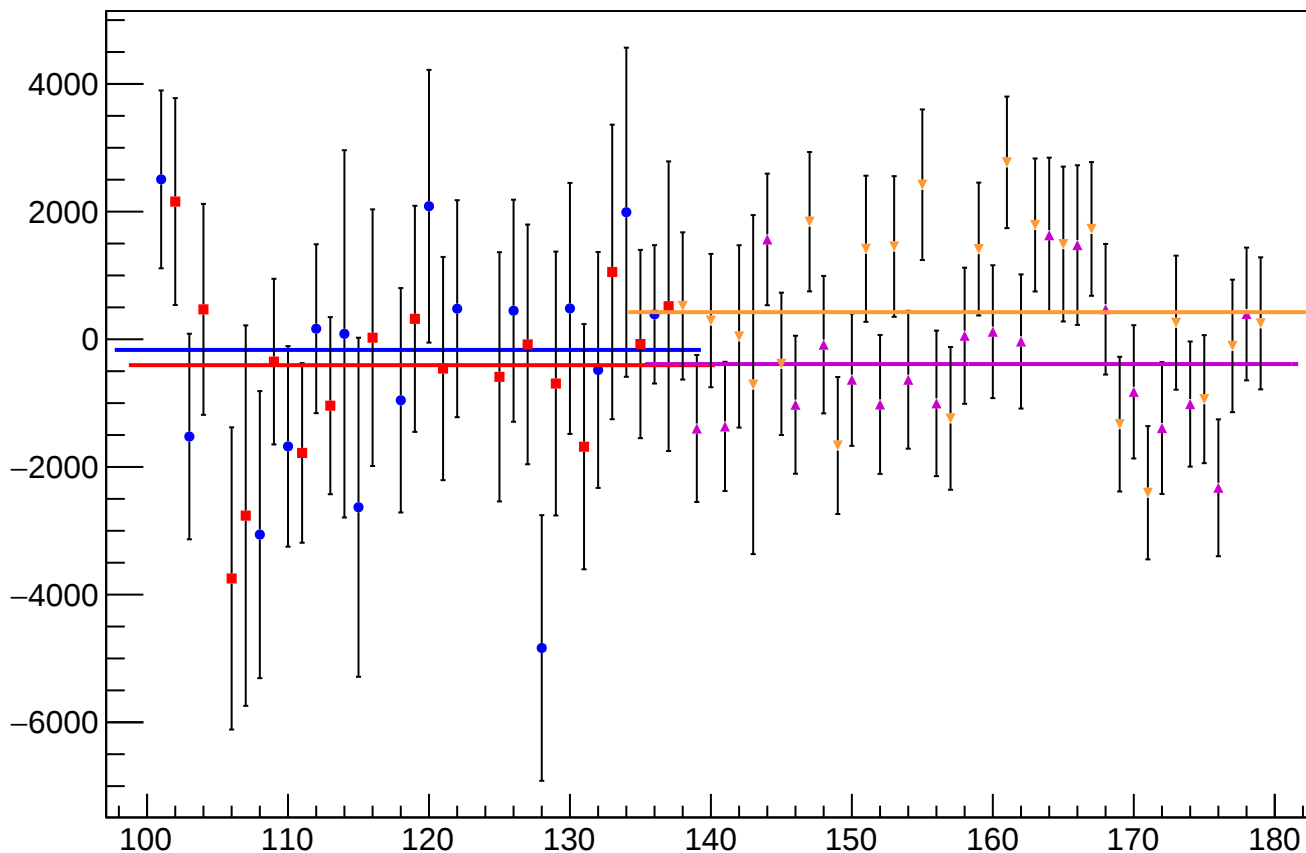
Right: 1681.918 $\pm$ 0.325  $\chi^2$ /NDF: 354656.9/32

In: 1767.659 $\pm$ 0.267  $\chi^2$ /NDF: 751086.3/35

Out: 1800.968 $\pm$ 0.264  $\chi^2$ /NDF: 681876.3/38

All: 1784.478 $\pm$ 0.188  $\chi^2$ /NDF: 1440838.3/74

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



Right In: -166.359+/-432.680  $\chi^2/\text{NDF}$ : 15.6/15

Left Out: 425.059+/-236.529  $\chi^2/\text{NDF}$ : 35.4/21

Right Out: -405.286+/-428.618  $\chi^2/\text{NDF}$ : 7.9/16

Left In: -388.084+/-239.312  $\chi^2/\text{NDF}$ : 18.0/19

Left: 23.244+/-168.227  $\chi^2/\text{NDF}$ : 59.2/41

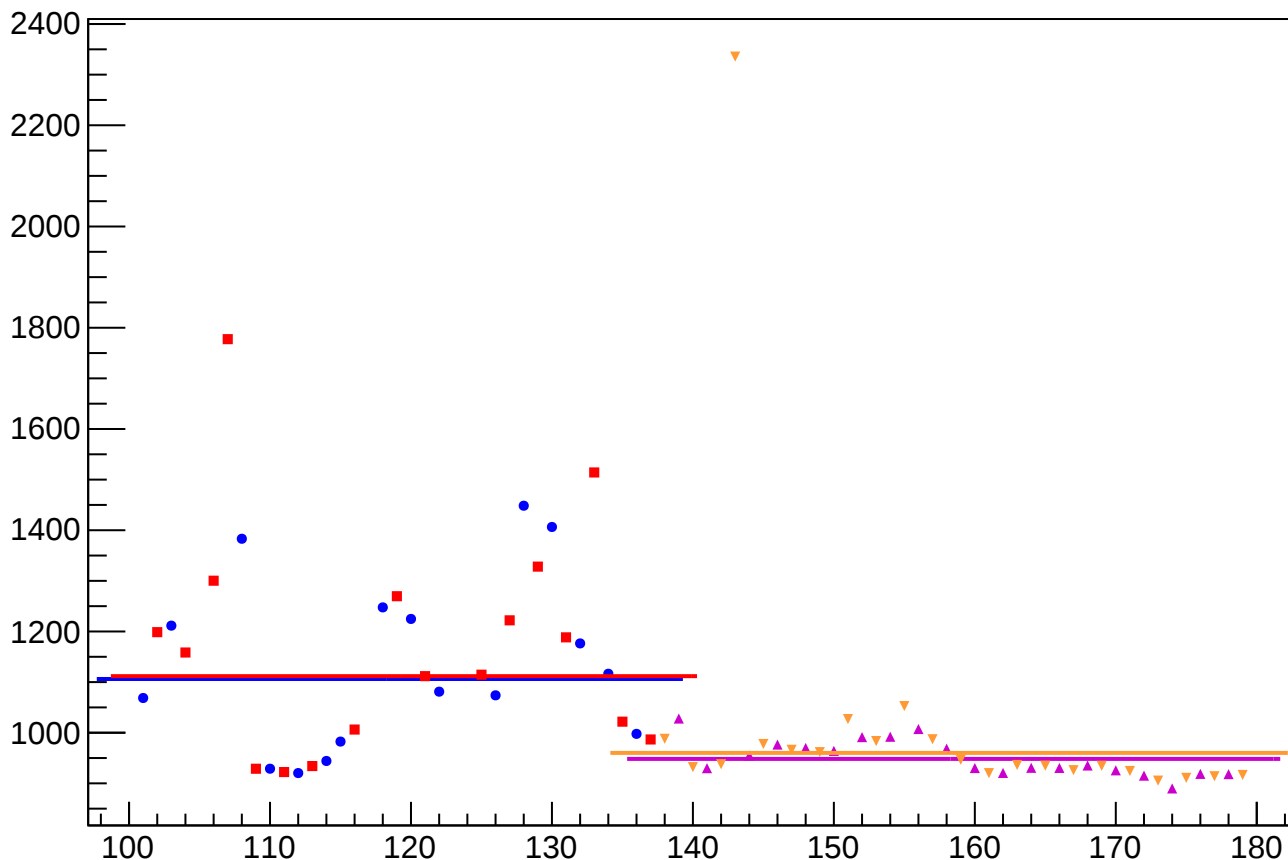
Right: -286.949+/-304.505  $\chi^2/\text{NDF}$ : 23.7/32

In: -336.144+/-209.415  $\chi^2/\text{NDF}$ : 33.8/35

Out: 231.224+/-207.089  $\chi^2/\text{NDF}$ : 46.2/38

All: -49.292+/-147.250  $\chi^2/\text{NDF}$ : 83.7/74

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



Right In:  $1106.159 \pm 0.306$   $\chi^2/\text{NDF}: 259917.7/15$

Left Out:  $960.148 \pm 0.167$   $\chi^2/\text{NDF}: 590123.6/21$

Right Out:  $1111.726 \pm 0.303$   $\chi^2/\text{NDF}: 356388.5/16$

Left In:  $948.270 \pm 0.169$   $\chi^2/\text{NDF}: 41884.0/19$

Left:  $954.279 \pm 0.119$   $\chi^2/\text{NDF}: 634499.9/41$

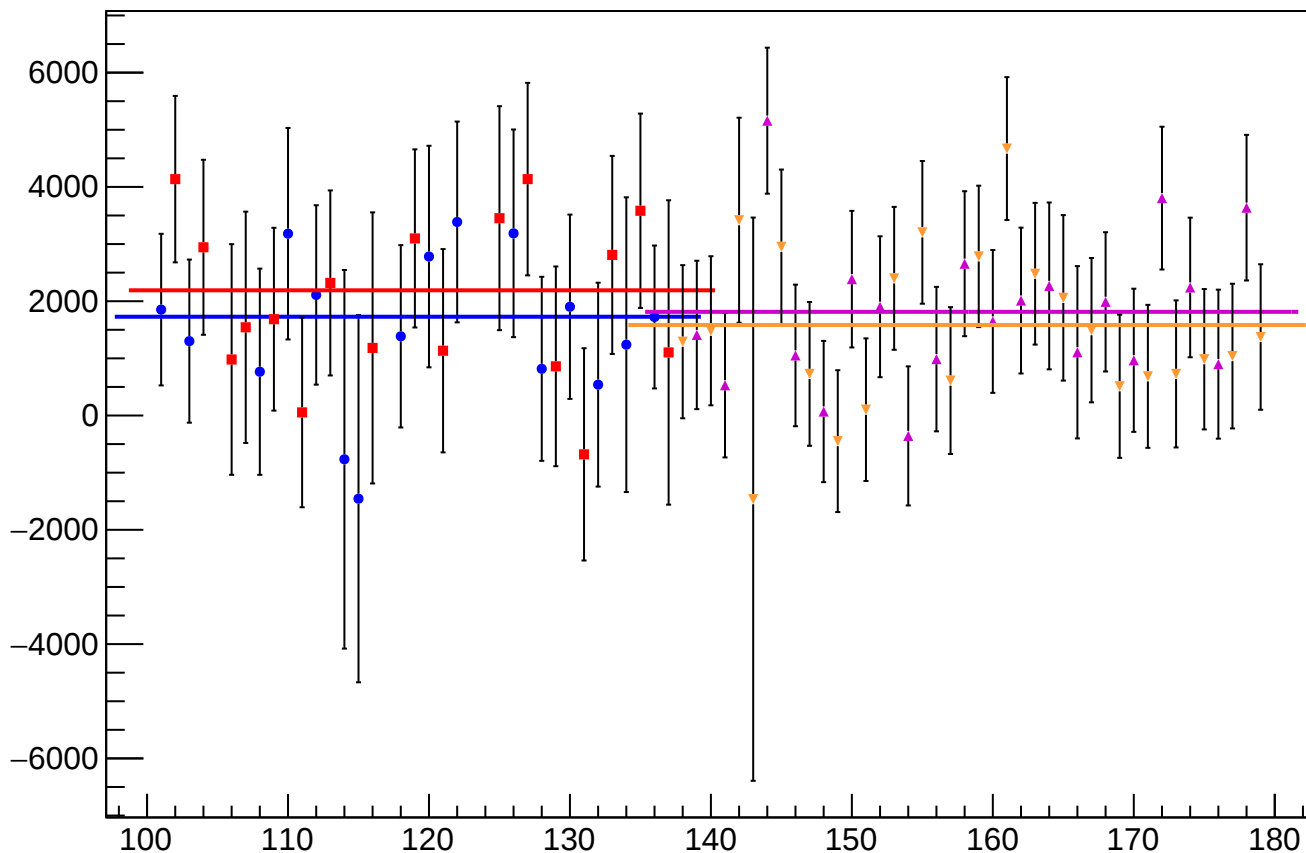
Right:  $1108.969 \pm 0.215$   $\chi^2/\text{NDF}: 616473.4/32$

In:  $985.256 \pm 0.148$   $\chi^2/\text{NDF}: 505733.7/35$

Out:  $995.532 \pm 0.146$   $\chi^2/\text{NDF}: 1138249.6/38$

All:  $990.451 \pm 0.104$   $\chi^2/\text{NDF}: 1646418.2/74$

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



Right In: 1728.463 $\pm$ 429.803  $\chi^2/\text{NDF}$ : 5.3/15

Left Out: 1584.167 $\pm$ 280.757  $\chi^2/\text{NDF}$ : 19.6/21

Right Out: 2190.971 $\pm$ 427.222  $\chi^2/\text{NDF}$ : 10.8/16

Left In: 1814.235 $\pm$ 283.862  $\chi^2/\text{NDF}$ : 20.7/19

Left: 1697.936 $\pm$ 199.614  $\chi^2/\text{NDF}$ : 40.6/41

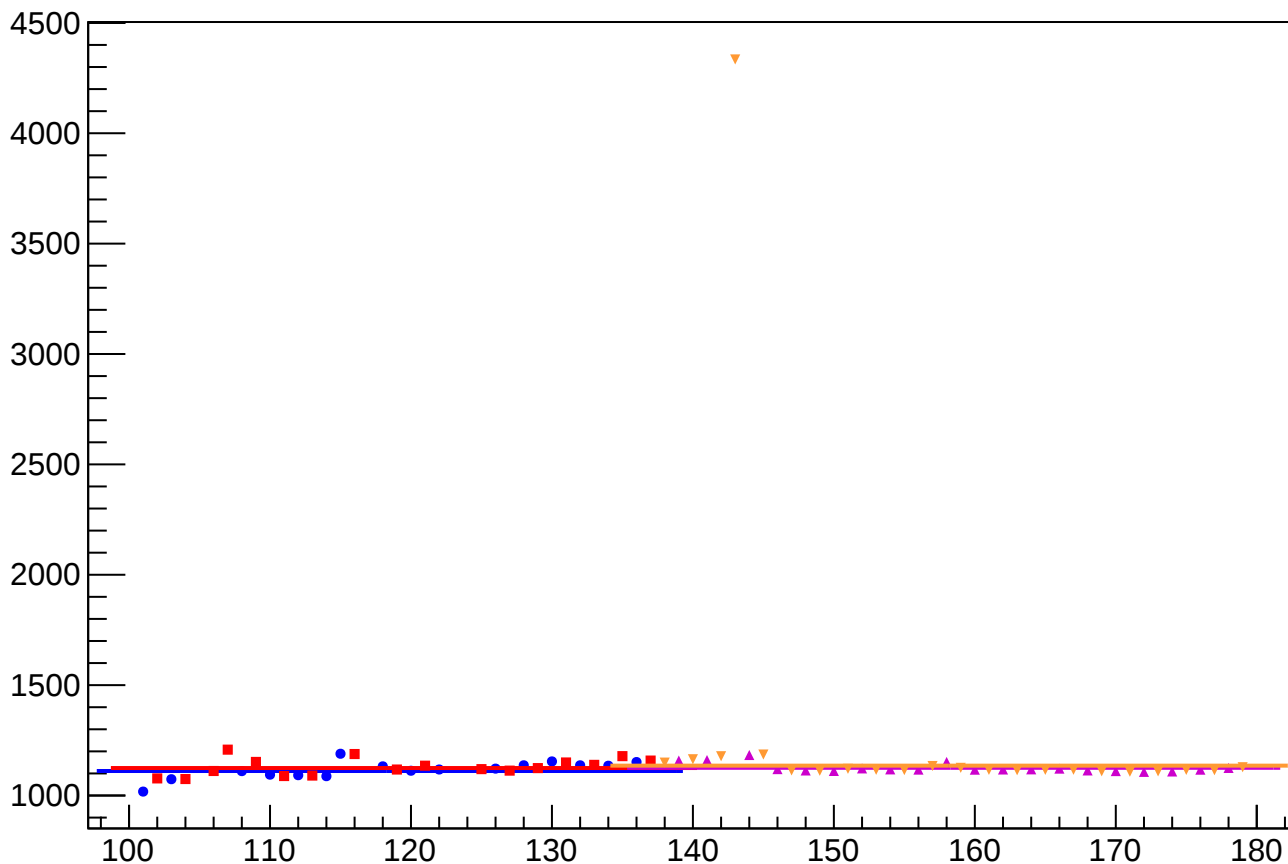
Right: 1961.110 $\pm$ 303.000  $\chi^2/\text{NDF}$ : 16.7/32

In: 1788.185 $\pm$ 236.865  $\chi^2/\text{NDF}$ : 26.0/35

Out: 1767.187 $\pm$ 234.627  $\chi^2/\text{NDF}$ : 31.8/38

All: 1777.586 $\pm$ 166.692  $\chi^2/\text{NDF}$ : 57.8/74

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



Right In:  $1111.042 \pm 0.304$   $\chi^2/\text{NDF}: 18091.1/15$

Left Out:  $1135.333 \pm 0.199$   $\chi^2/\text{NDF}: 856187.8/21$

Right Out:  $1124.514 \pm 0.302$   $\chi^2/\text{NDF}: 14600.7/16$

Left In:  $1125.537 \pm 0.201$   $\chi^2/\text{NDF}: 10069.6/19$

Left:  $1130.489 \pm 0.141$   $\chi^2/\text{NDF}: 867461.5/41$

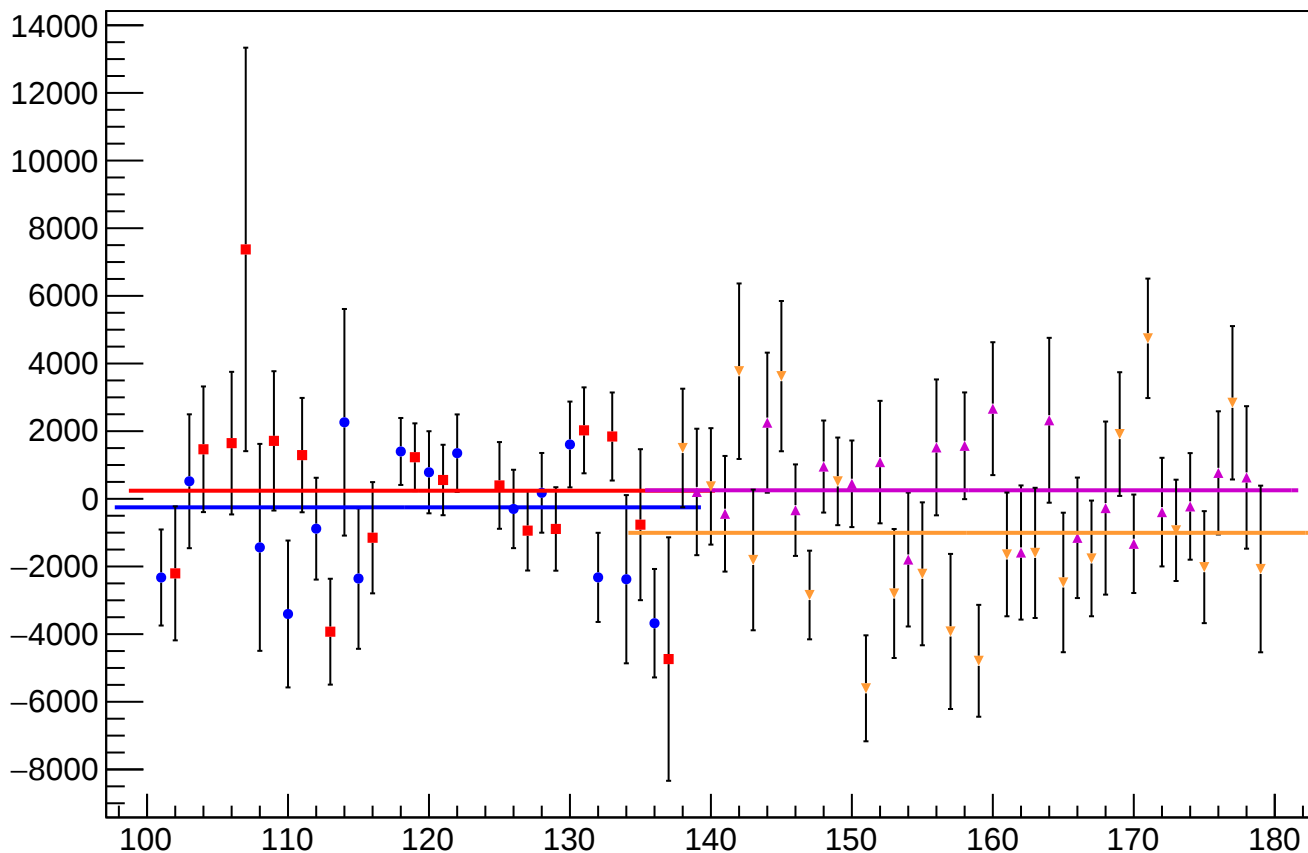
Right:  $1117.819 \pm 0.214$   $\chi^2/\text{NDF}: 33680.2/32$

In:  $1121.135 \pm 0.167$   $\chi^2/\text{NDF}: 29744.5/35$

Out:  $1132.070 \pm 0.166$   $\chi^2/\text{NDF}: 871684.2/38$

All:  $1126.654 \pm 0.118$   $\chi^2/\text{NDF}: 903580.3/74$

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



Right In: -251.327+/-364.951  $\chi^2/\text{NDF}$ : 21.8/15

Left Out: -1005.035+/-382.852  $\chi^2/\text{NDF}$ : 48.1/21

Right Out: 239.863+/-363.842  $\chi^2/\text{NDF}$ : 21.1/16

Left In: 252.405+/-386.098  $\chi^2/\text{NDF}$ : 9.3/19

Left: -381.622+/-271.858  $\chi^2/\text{NDF}$ : 62.7/41

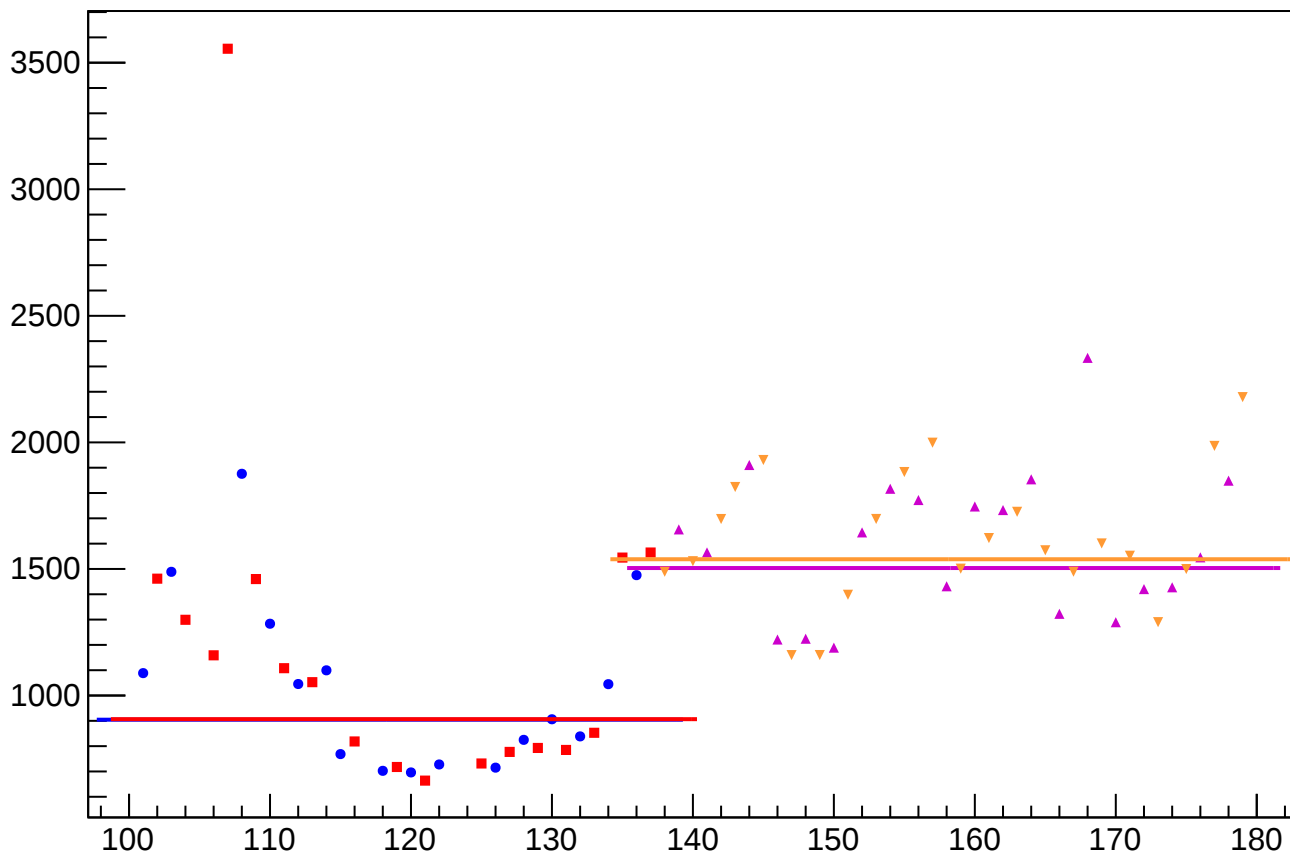
Right: -4.984+/-257.666  $\chi^2/\text{NDF}$ : 43.8/32

In: -13.633+/-265.220  $\chi^2/\text{NDF}$ : 32.0/35

Out: -350.911+/-263.740  $\chi^2/\text{NDF}$ : 74.7/38

All: -183.216+/-187.013  $\chi^2/\text{NDF}$ : 107.5/74

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



Right In: 904.488+/-0.258  $\chi^2/\text{NDF}$ : 1021094.8/15

Left Out: 1538.383+/-0.271  $\chi^2/\text{NDF}$ : 908931.5/21

Right Out: 906.594+/-0.257  $\chi^2/\text{NDF}$ : 1376076.4/16

Left In: 1503.631+/-0.273  $\chi^2/\text{NDF}$ : 925483.6/19

Left: 1521.154+/-0.192  $\chi^2/\text{NDF}$ : 1842585.1/41

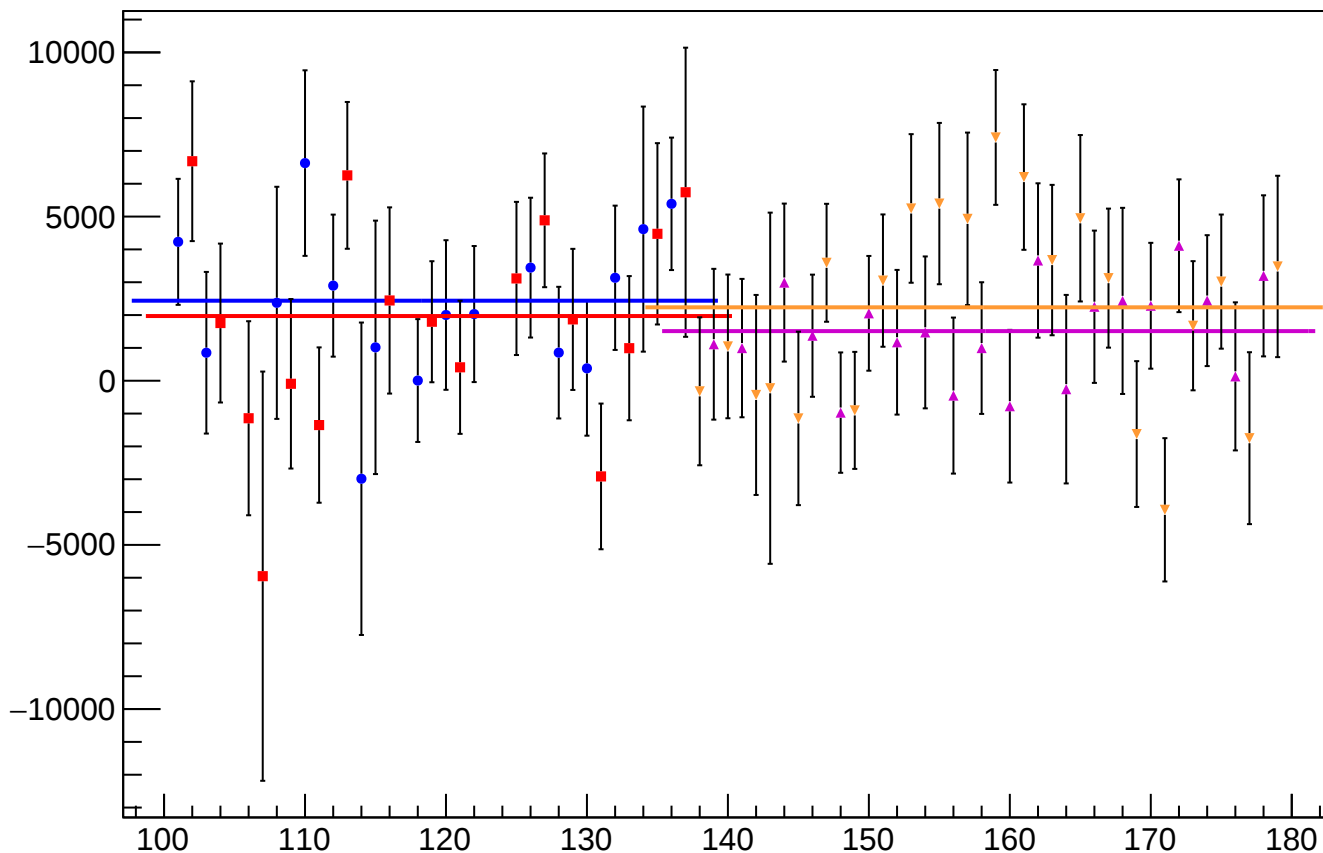
Right: 905.545+/-0.182  $\chi^2/\text{NDF}$ : 2397204.6/32

In: 1187.203+/-0.188  $\chi^2/\text{NDF}$ : 4490124.3/35

Out: 1206.414+/-0.186  $\chi^2/\text{NDF}$ : 5146794.6/38

All: 1196.862+/-0.132  $\chi^2/\text{NDF}$ : 9642194.9/74

# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2437.510+/-586.231  $\chi^2/\text{NDF}$ : 11.2/15

Left Out: 2236.000+/-484.110  $\chi^2/\text{NDF}$ : 37.6/21

Right Out: 1970.445+/-586.663  $\chi^2/\text{NDF}$ : 22.3/16

Left In: 1511.390+/-485.124  $\chi^2/\text{NDF}$ : 8.4/19

Left: 1874.453+/-342.676  $\chi^2/\text{NDF}$ : 47.1/41

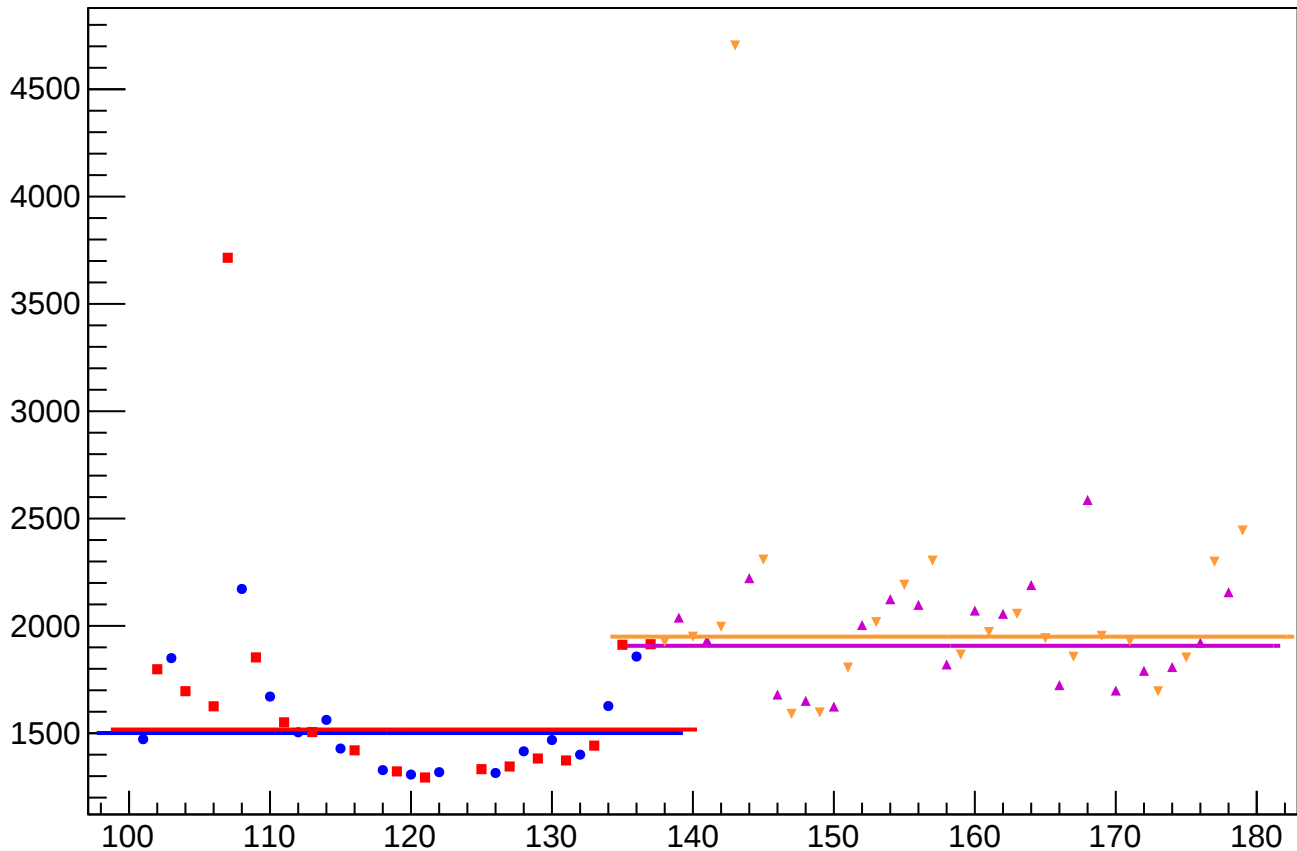
Right: 2204.149+/-414.681  $\chi^2/\text{NDF}$ : 33.8/32

In: 1887.821+/-373.747  $\chi^2/\text{NDF}$ : 21.1/35

Out: 2128.425+/-373.394  $\chi^2/\text{NDF}$ : 60.0/38

All: 2008.237+/-264.154  $\chi^2/\text{NDF}$ : 81.3/74

# asym\_usl\_rms vs Slug, Sign Corrected



Right In:  $1500.830 \pm 0.415$   $\chi^2/\text{NDF}: 256227.7/15$

Left Out:  $1949.815 \pm 0.342$   $\chi^2/\text{NDF}: 944174.5/21$

Right Out:  $1517.120 \pm 0.415$   $\chi^2/\text{NDF}: 475046.3/16$

Left In:  $1907.212 \pm 0.343$   $\chi^2/\text{NDF}: 421437.4/19$

Left:  $1928.558 \pm 0.242$   $\chi^2/\text{NDF}: 1373340.0/41$

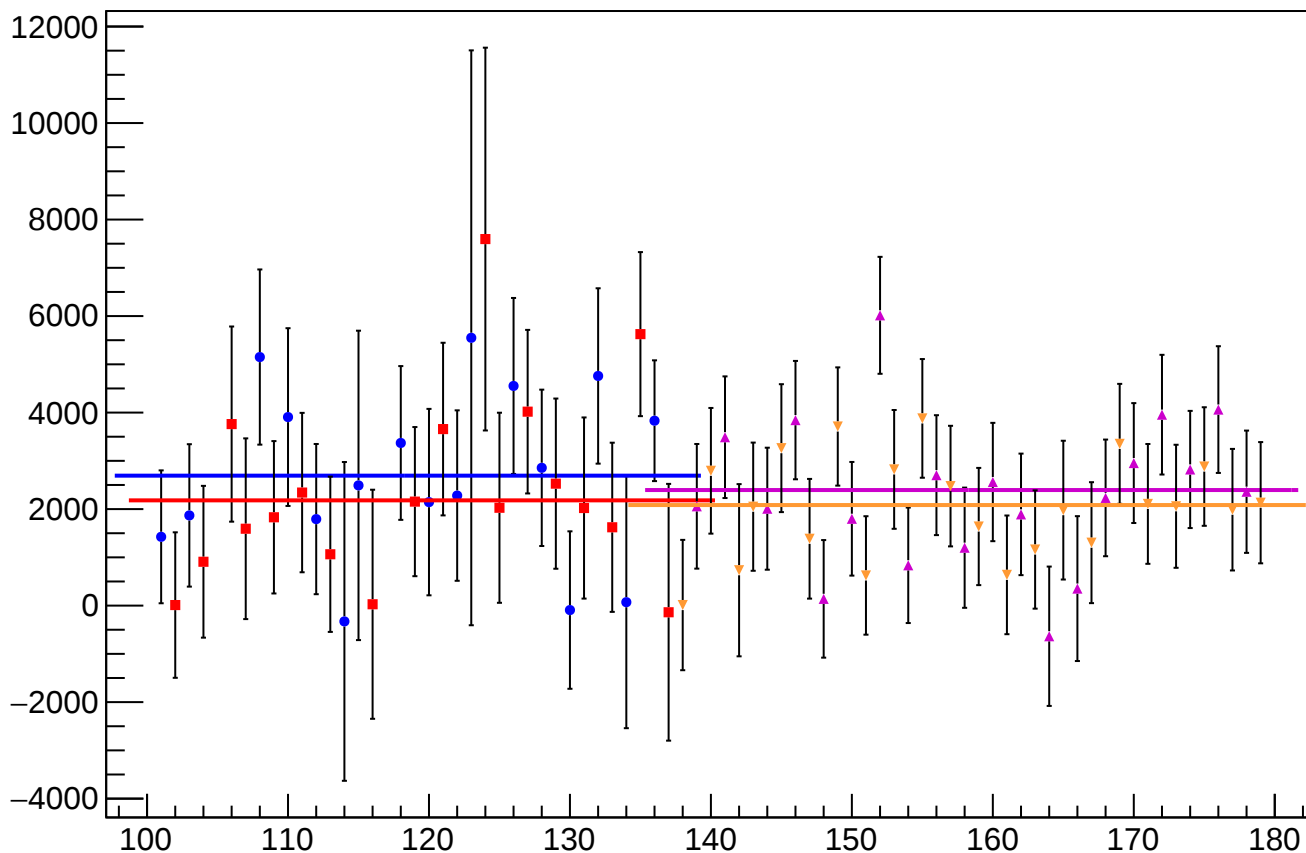
Right:  $1508.969 \pm 0.293$   $\chi^2/\text{NDF}: 732045.6/32$

In:  $1742.034 \pm 0.264$   $\chi^2/\text{NDF}: 1248108.2/35$

Out:  $1774.532 \pm 0.264$   $\chi^2/\text{NDF}: 2066457.2/38$

All:  $1758.298 \pm 0.187$   $\chi^2/\text{NDF}: 3322133.3/74$

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



Right In: 2692.998 $\pm$ 432.616  $\chi^2$ /NDF: 12.2/16

Left Out: 2083.853 $\pm$ 272.232  $\chi^2$ /NDF:14.1/21

Right Out: 2180.980 $\pm$ 425.451  $\chi^2$ /NDF: 13.5/17

Left In: 2394.866 $\pm$ 280.945  $\chi^2$ /NDF:27.6/19

Left: 2234.462 $\pm$ 195.505  $\chi^2$ /NDF: 42.3/41

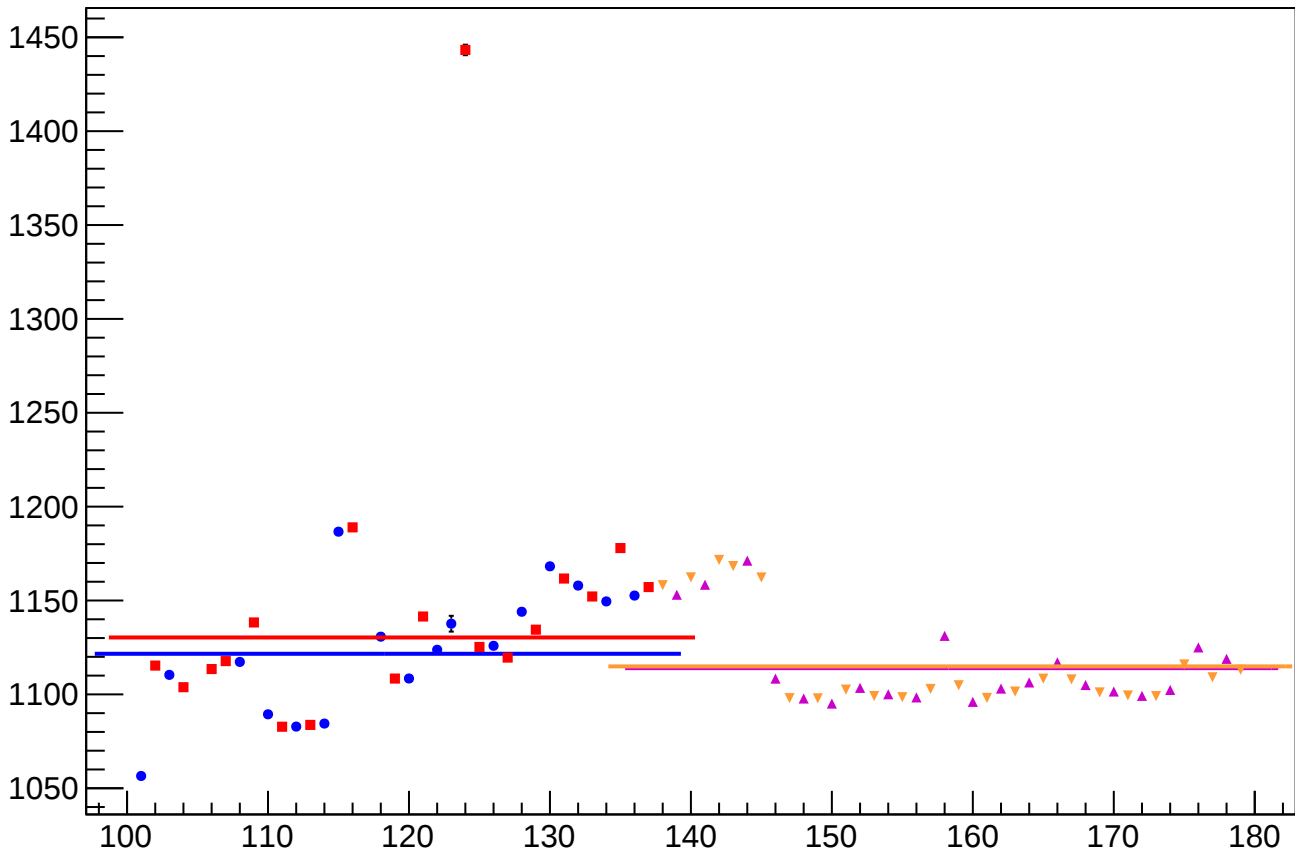
Right: 2432.714 $\pm$ 303.341  $\chi^2$ /NDF: 26.5/34

In: 2483.302 $\pm$ 235.620  $\chi^2$ /NDF:40.2/36

Out: 2112.068 $\pm$ 229.307  $\chi^2$ /NDF:27.6/39

All: 2292.645 $\pm$ 164.331  $\chi^2$ /NDF: 69.1/76

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



Right In: 1121.626 $\pm$ 0.306  $\chi^2$ /NDF: 11980.2/16

Left Out: 1114.906 $\pm$ 0.192  $\chi^2$ /NDF: 16114.9/21

Right Out: 1130.316 $\pm$ 0.301  $\chi^2$ /NDF: 21276.1/17

Left In: 1113.964 $\pm$ 0.199  $\chi^2$ /NDF: 12040.0/19

Left: 1114.450 $\pm$ 0.138  $\chi^2$ /NDF: 28166.5/41

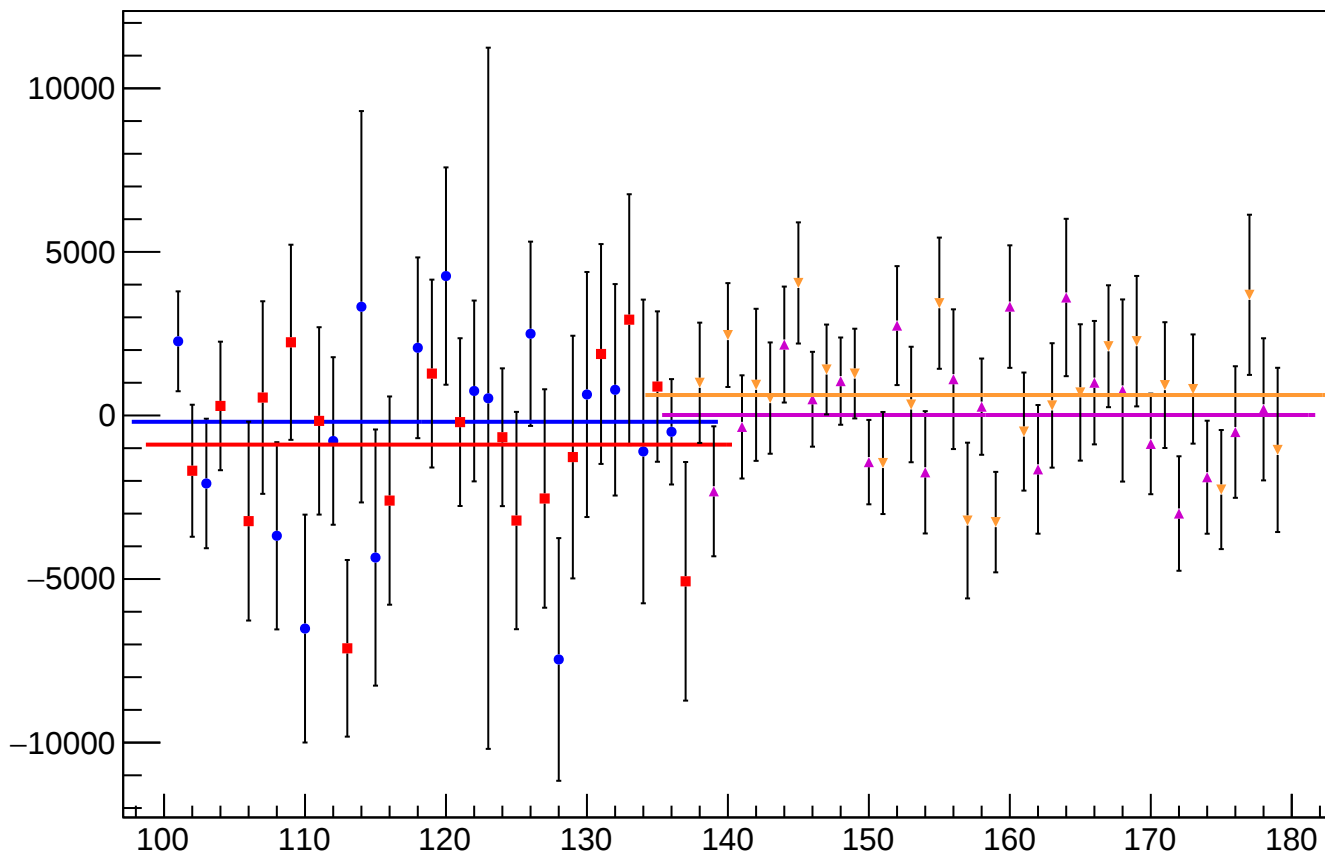
Right: 1126.044 $\pm$ 0.214  $\chi^2$ /NDF: 33666.6/34

In: 1116.237 $\pm$ 0.167  $\chi^2$ /NDF: 24461.6/36

Out: 1119.382 $\pm$ 0.162  $\chi^2$ /NDF: 39252.7/39

All: 1117.852 $\pm$ 0.116  $\chi^2$ /NDF: 63897.4/76

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



Right In: -193.332+/-660.359  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 625.272+/-384.408  $\chi^2/\text{NDF}$ : 24.4/21

Right Out: -891.057+/-649.405  $\chi^2/\text{NDF}$ : 13.1/17

Left In: 14.598+/-390.671  $\chi^2/\text{NDF}$ : 19.3/19

Left: 324.870+/-274.005  $\chi^2/\text{NDF}$ : 45.0/41

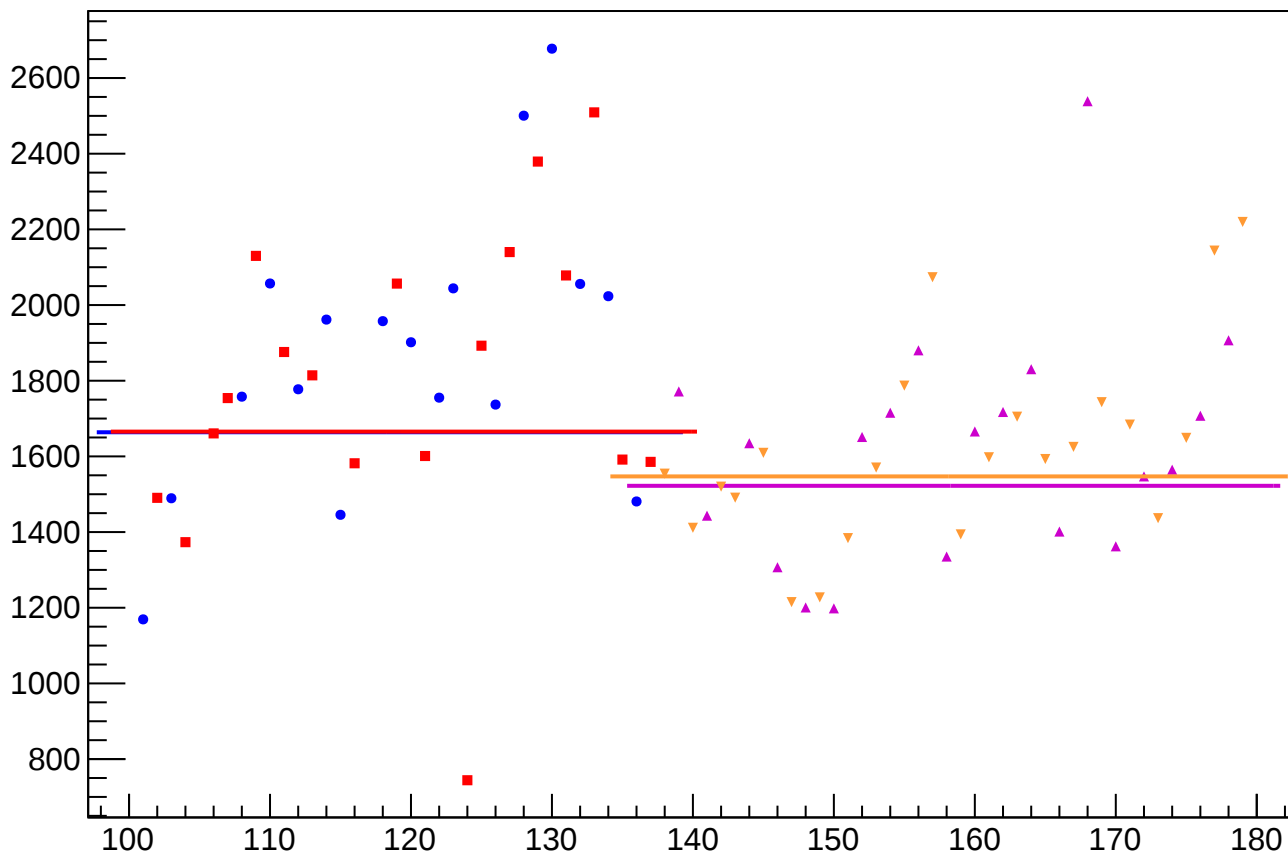
Right: -548.030+/-463.023  $\chi^2/\text{NDF}$ : 31.0/34

In: -39.310+/-336.237  $\chi^2/\text{NDF}$ : 36.7/36

Out: 231.824+/-330.797  $\chi^2/\text{NDF}$ : 41.6/39

All: 98.468+/-235.809  $\chi^2/\text{NDF}$ : 78.6/76

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



Right In: 1663.779 $\pm$ 0.467  $\chi^2$ /NDF: 622477.6/16

Left Out: 1547.108 $\pm$ 0.272  $\chi^2$ /NDF: 740369.1/21

Right Out: 1665.466 $\pm$ 0.459  $\chi^2$ /NDF: 802791.6/17

Left In: 1522.263 $\pm$ 0.276  $\chi^2$ /NDF: 892858.1/19

Left: 1534.886 $\pm$ 0.194  $\chi^2$ /NDF: 1637336.7/41

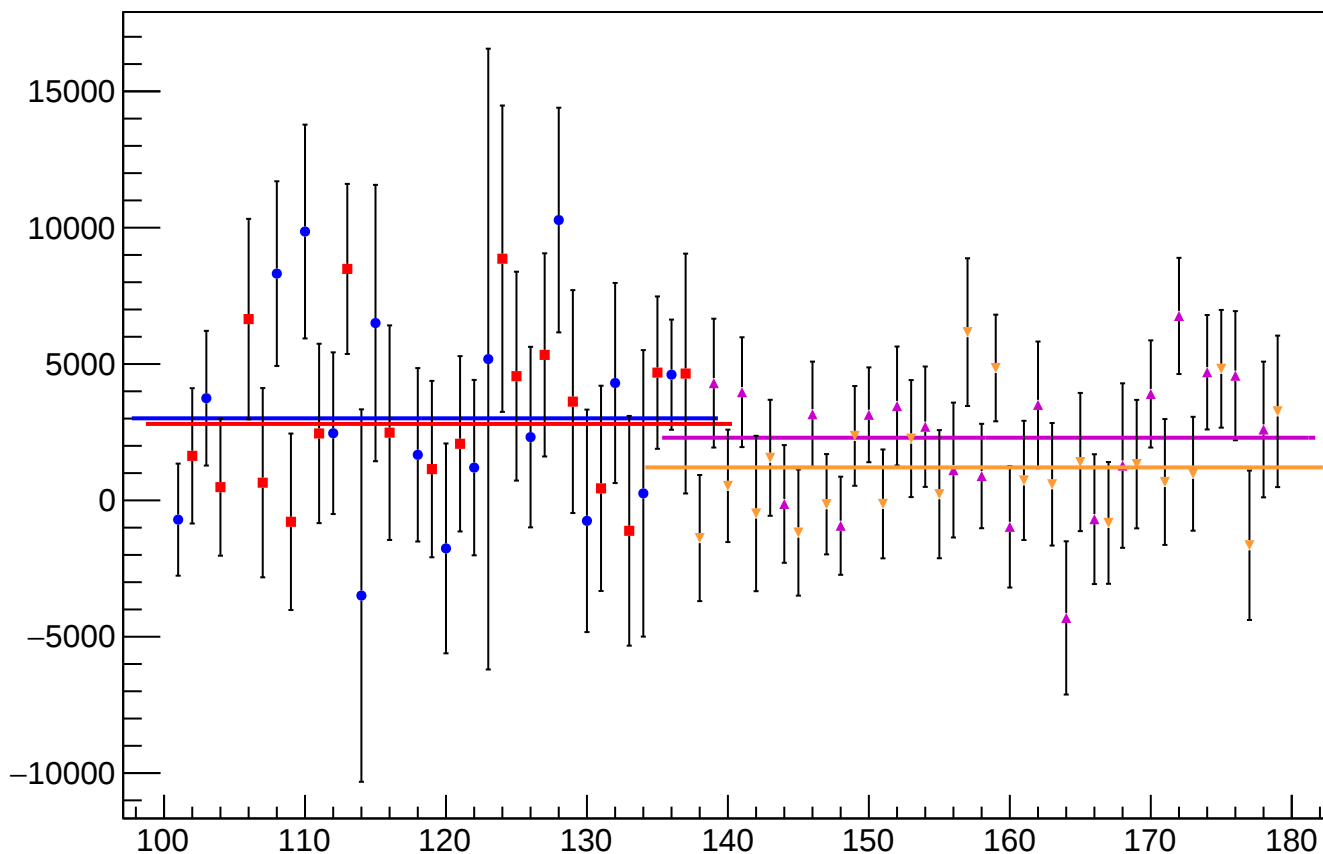
Right: 1664.637 $\pm$ 0.327  $\chi^2$ /NDF: 1425275.8/34

In: 1558.952 $\pm$ 0.238  $\chi^2$ /NDF: 1583373.0/36

Out: 1577.819 $\pm$ 0.234  $\chi^2$ /NDF: 1592357.9/39

All: 1568.539 $\pm$ 0.167  $\chi^2$ /NDF: 3178930.6/76

# asym\_usr\_mean vs Slug, Sign Corrected



Right In: 3009.190 $\pm$ 799.647  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1209.423 $\pm$ 474.915  $\chi^2/\text{NDF}$ : 16.9/21

Right Out: 2803.971 $\pm$ 799.589  $\chi^2/\text{NDF}$ : 11.2/17

Left In: 2297.301 $\pm$ 485.258  $\chi^2/\text{NDF}$ : 24.4/19

Left: 1741.645 $\pm$ 339.413  $\chi^2/\text{NDF}$ : 43.8/41

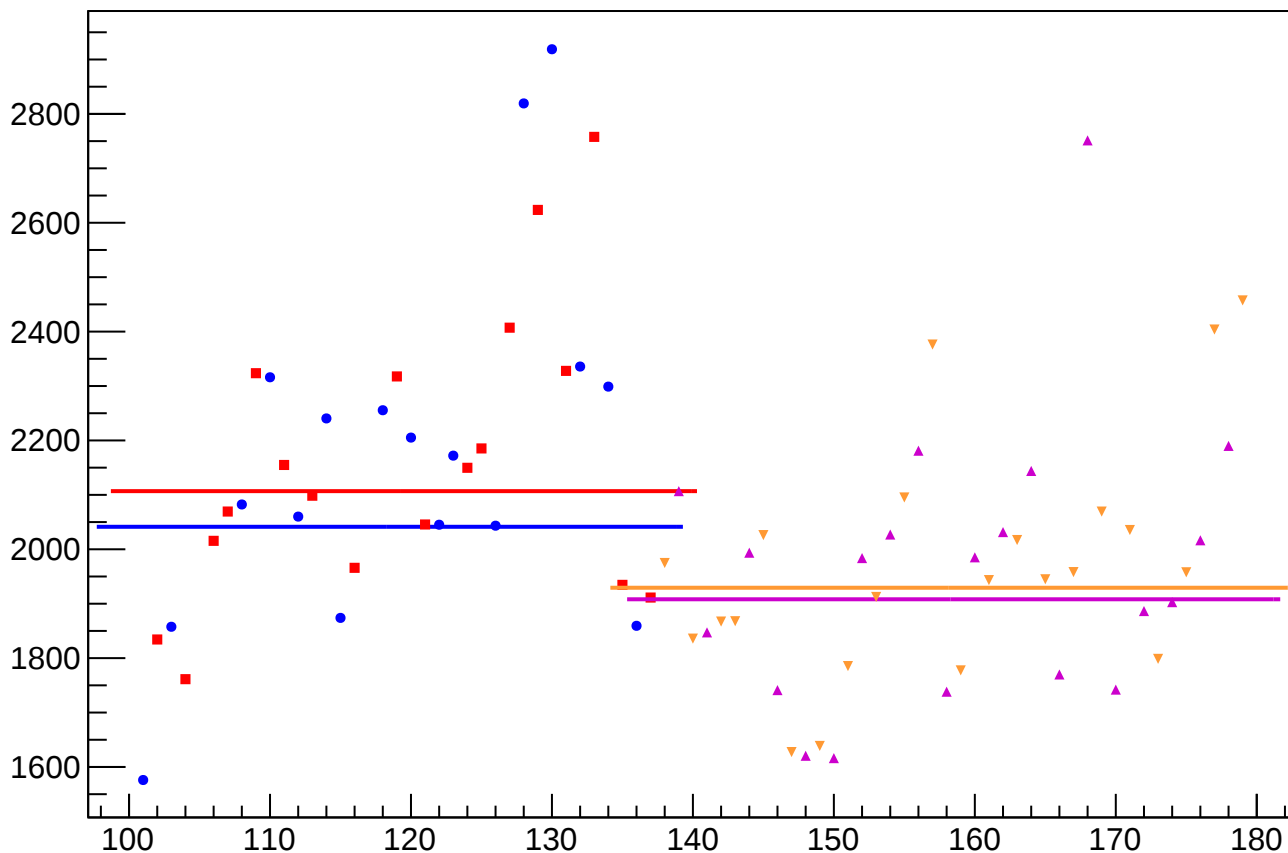
Right: 2906.573 $\pm$ 565.416  $\chi^2/\text{NDF}$ : 28.6/34

In: 2488.900 $\pm$ 414.848  $\chi^2/\text{NDF}$ : 42.3/36

Out: 1625.247 $\pm$ 408.322  $\chi^2/\text{NDF}$ : 31.1/39

All: 2050.227 $\pm$ 291.007  $\chi^2/\text{NDF}$ : 75.6/76

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 2041.348 $\pm$ 0.565  $\chi^2$ /NDF: 338436.8/16

Left Out: 1929.340 $\pm$ 0.336  $\chi^2$ /NDF: 357653.2/21

Right Out: 2106.845 $\pm$ 0.565  $\chi^2$ /NDF: 196720.6/17

Left In: 1908.136 $\pm$ 0.343  $\chi^2$ /NDF: 419400.8/19

Left: 1918.967 $\pm$ 0.240  $\chi^2$ /NDF: 779004.4/41

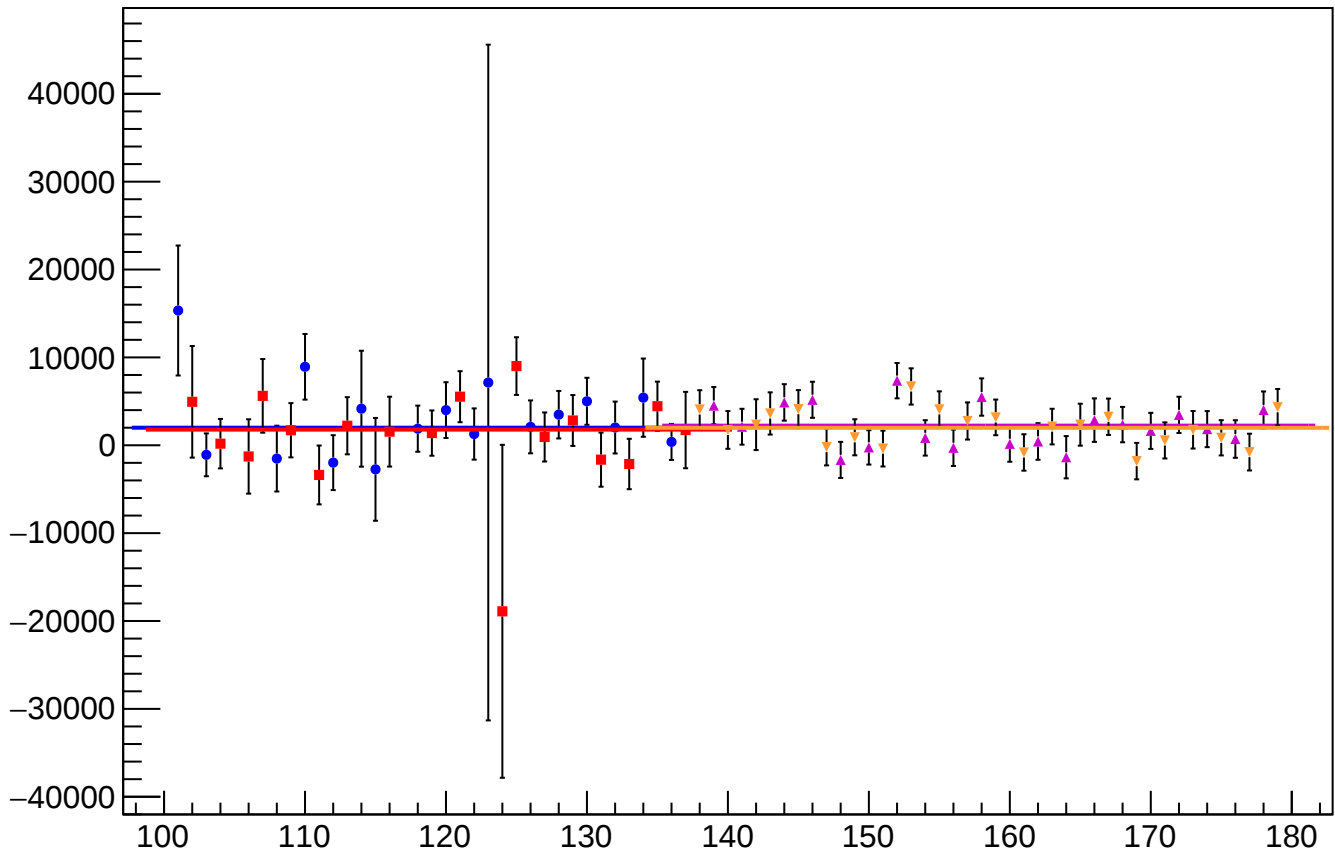
Right: 2074.099 $\pm$ 0.400  $\chi^2$ /NDF: 541866.5/34

In: 1943.989 $\pm$ 0.293  $\chi^2$ /NDF: 798402.8/36

Out: 1975.629 $\pm$ 0.289  $\chi^2$ /NDF: 627234.1/39

All: 1960.060 $\pm$ 0.206  $\chi^2$ /NDF: 1431546.1/76

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



Right In: 1999.899+/-781.612  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: 1987.669+/-453.630  $\chi^2/\text{NDF}$ : 21.2/21

Right Out: 1781.823+/-781.836  $\chi^2/\text{NDF}$ : 16.3/17

Left In: 2233.794+/-466.883  $\chi^2/\text{NDF}$ : 26.6/19

Left: 2107.189+/-325.349  $\chi^2/\text{NDF}$ : 48.0/41

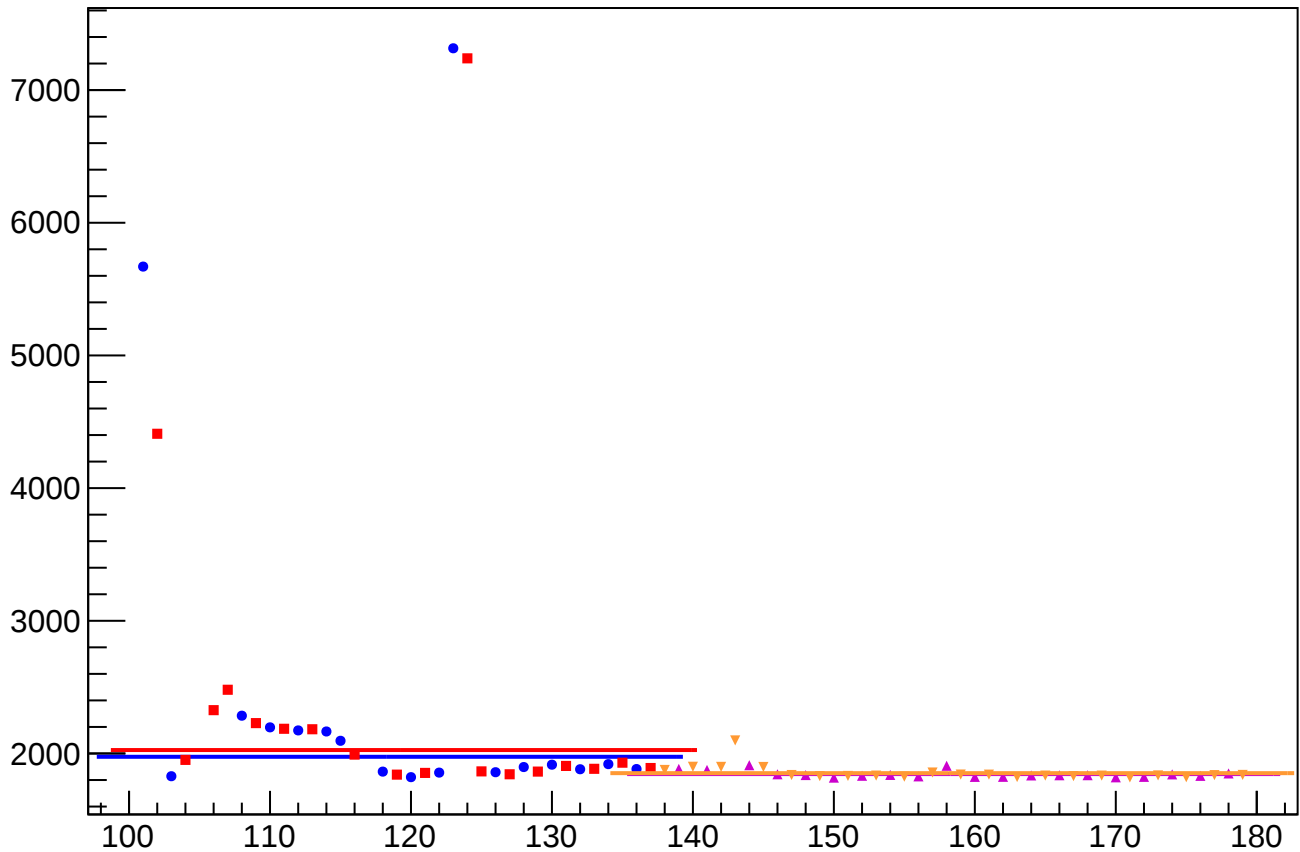
Right: 1890.892+/-552.762  $\chi^2/\text{NDF}$ : 31.1/34

In: 2172.285+/-400.819  $\chi^2/\text{NDF}$ : 41.5/36

Out: 1935.825+/-392.368  $\chi^2/\text{NDF}$ : 37.5/39

All: 2051.536+/-280.386  $\chi^2/\text{NDF}$ : 79.2/76

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



Right In: 1975.109+/-0.553  $\chi^2/\text{NDF}$ : 599831.6/16

Left Out: 1851.756+/-0.321  $\chi^2/\text{NDF}$ : 27161.3/21

Right Out: 2025.871+/-0.553  $\chi^2/\text{NDF}$ : 535385.1/17

Left In: 1844.763+/-0.330  $\chi^2/\text{NDF}$ : 6687.2/19

Left: 1848.361+/-0.230  $\chi^2/\text{NDF}$ : 34079.3/41

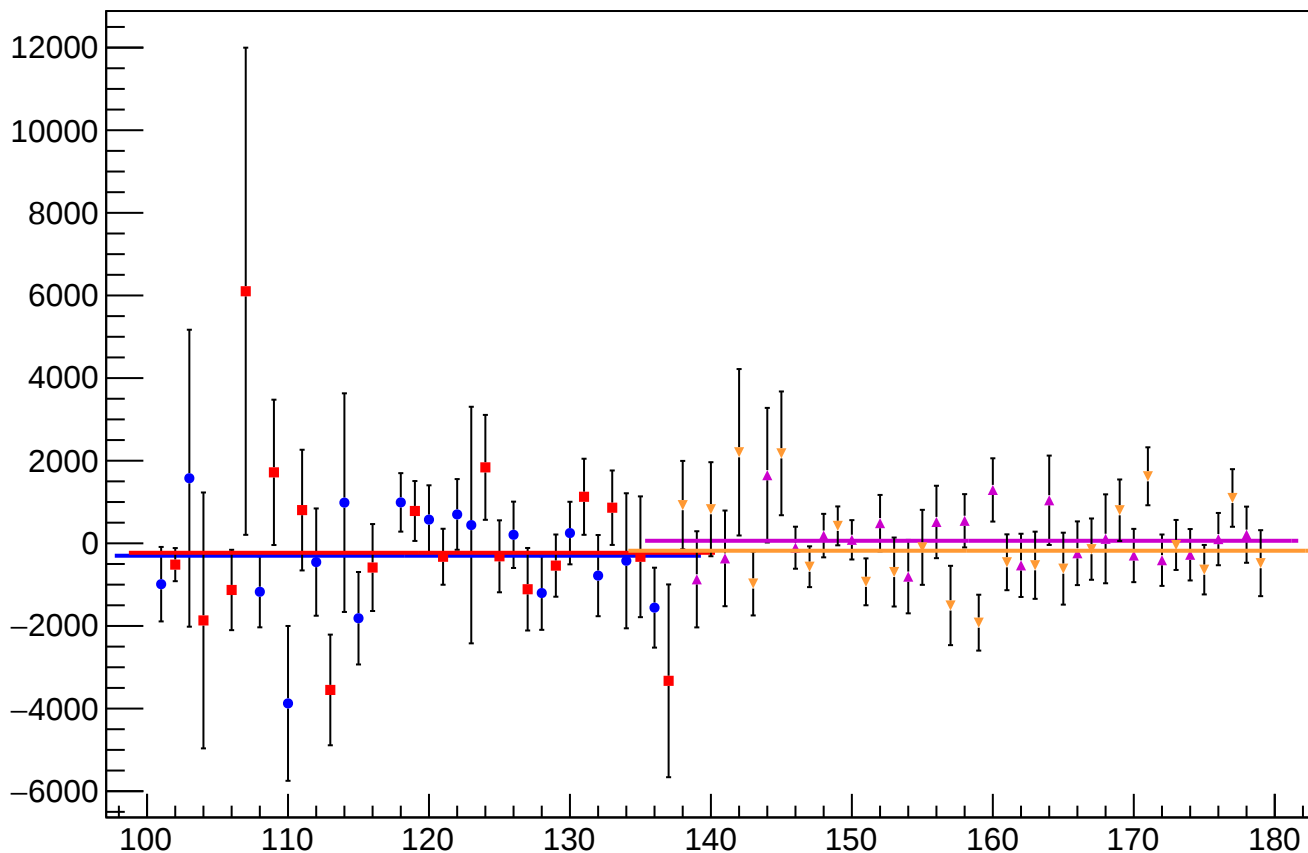
Right: 2000.483+/-0.391  $\chi^2/\text{NDF}$ : 1139433.4/34

In: 1879.041+/-0.283  $\chi^2/\text{NDF}$ : 647513.0/36

Out: 1895.609+/-0.277  $\chi^2/\text{NDF}$ : 636755.0/39

All: 1887.501+/-0.198  $\chi^2/\text{NDF}$ : 1286012.9/76

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



Right In:  $-299.990 \pm 246.615$   $\chi^2/\text{NDF}: 17.3/16$

Left Out:  $-179.303 \pm 155.314$   $\chi^2/\text{NDF}: 32.8/21$

Right Out:  $-228.794 \pm 215.624$   $\chi^2/\text{NDF}: 21.8/17$

Left In:  $61.786 \pm 158.310$   $\chi^2/\text{NDF}: 9.5/19$

Left:  $-61.061 \pm 110.868$   $\chi^2/\text{NDF}: 43.4/41$

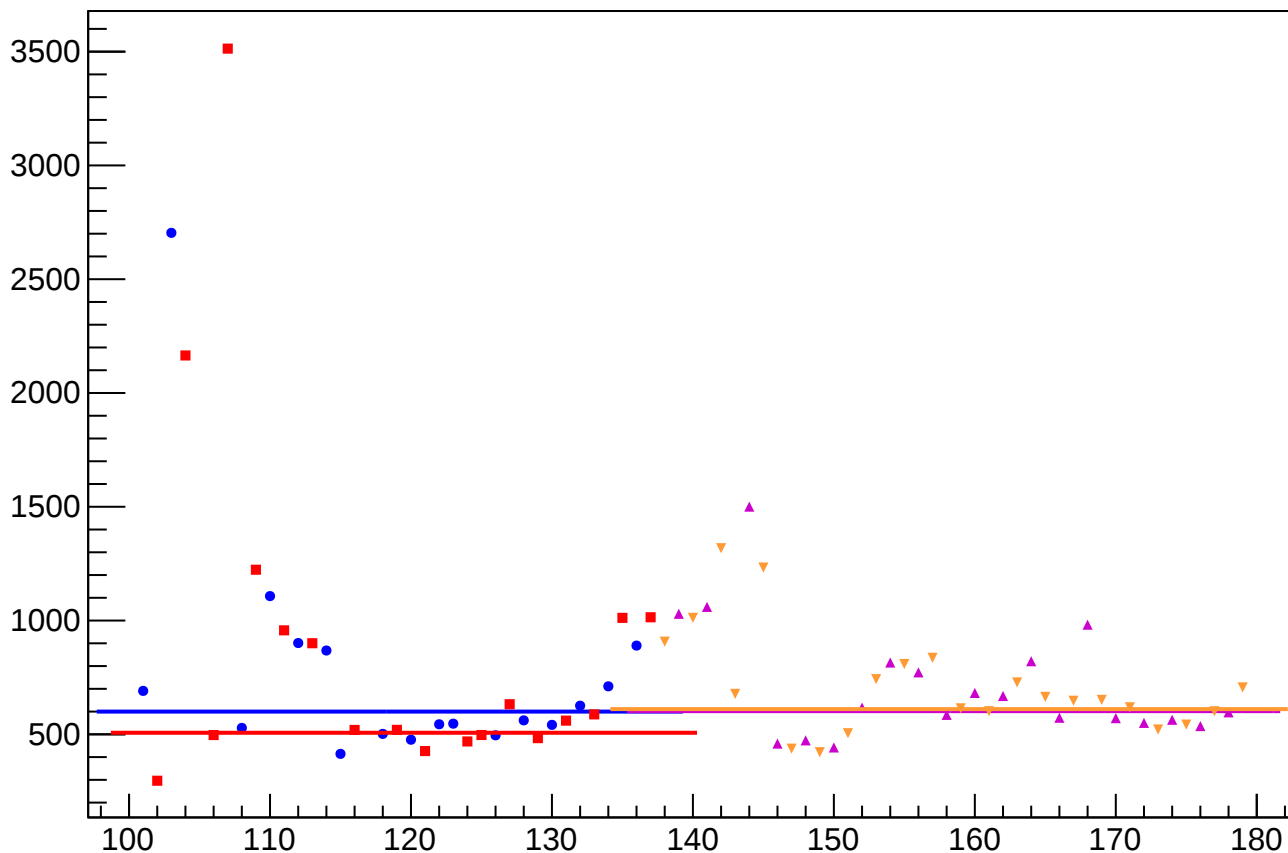
Right:  $-259.640 \pm 162.327$   $\chi^2/\text{NDF}: 39.2/34$

In:  $-43.788 \pm 133.223$   $\chi^2/\text{NDF}: 28.3/36$

Out:  $-196.209 \pm 126.025$   $\chi^2/\text{NDF}: 54.6/39$

All:  $-124.227 \pm 91.552$   $\chi^2/\text{NDF}: 83.6/76$

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



Right In: 599.953 $\pm$ 0.174  $\chi^2/\text{NDF}$ : 1381049.4/16

Left Out: 610.829 $\pm$ 0.110  $\chi^2/\text{NDF}$ : 2063101.4/21

Right Out: 506.876 $\pm$ 0.152  $\chi^2/\text{NDF}$ : 2760863.3/17

Left In: 601.935 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 2305010.3/19

Left: 606.467 $\pm$ 0.078  $\chi^2/\text{NDF}$ : 4371328.0/41

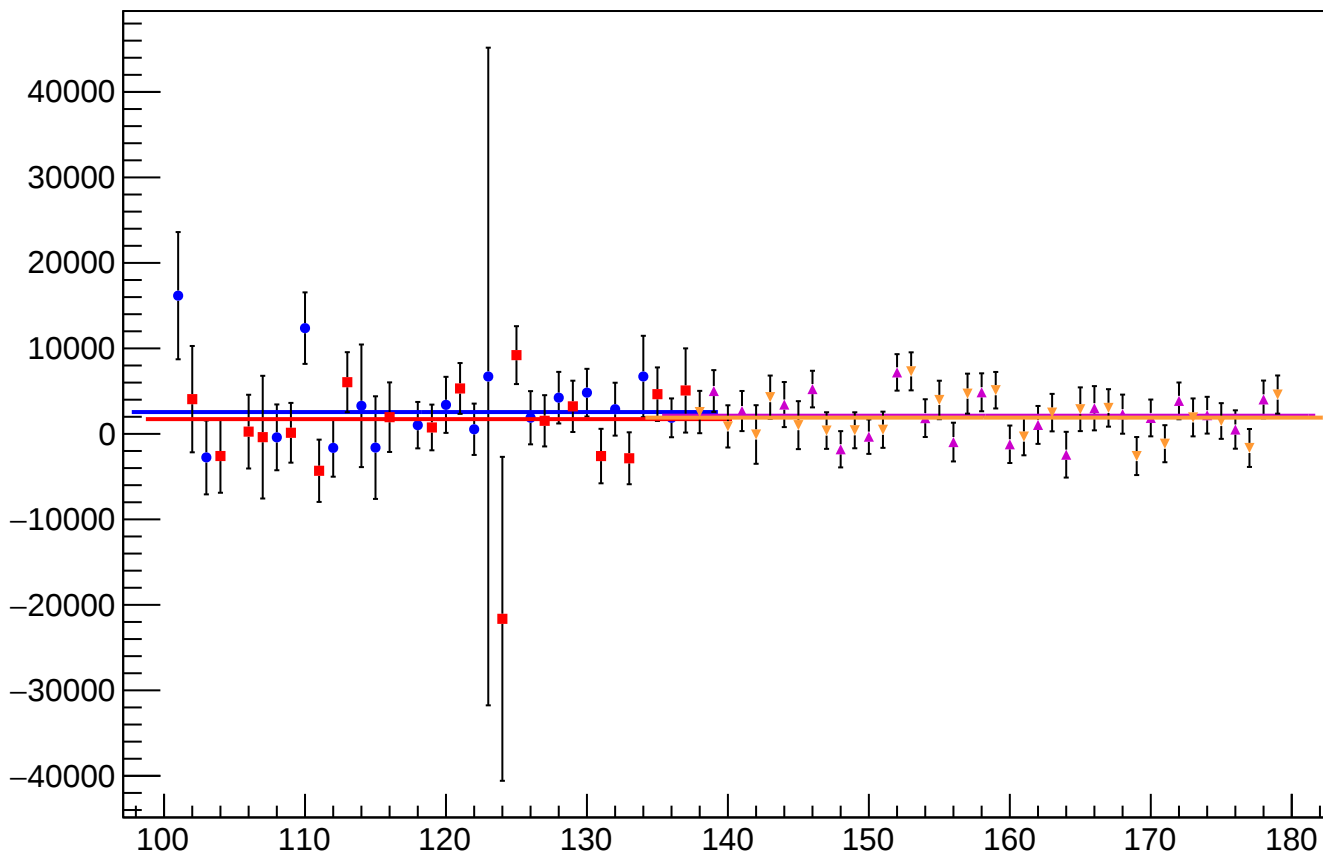
Right: 547.202 $\pm$ 0.115  $\chi^2/\text{NDF}$ : 4303374.7/34

In: 601.357 $\pm$ 0.094  $\chi^2/\text{NDF}$ : 3686151.2/36

Out: 575.318 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 5130019.7/39

All: 587.615 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 8856491.6/76

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



Right In: 2553.597 $\pm$ 858.906  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 1901.146 $\pm$ 488.388  $\chi^2/\text{NDF}$ : 25.1/21

Right Out: 1727.074 $\pm$ 855.162  $\chi^2/\text{NDF}$ : 19.5/17

Left In: 2125.920 $\pm$ 503.423  $\chi^2/\text{NDF}$ : 25.3/19

Left: 2010.126 $\pm$ 350.537  $\chi^2/\text{NDF}$ : 50.5/41

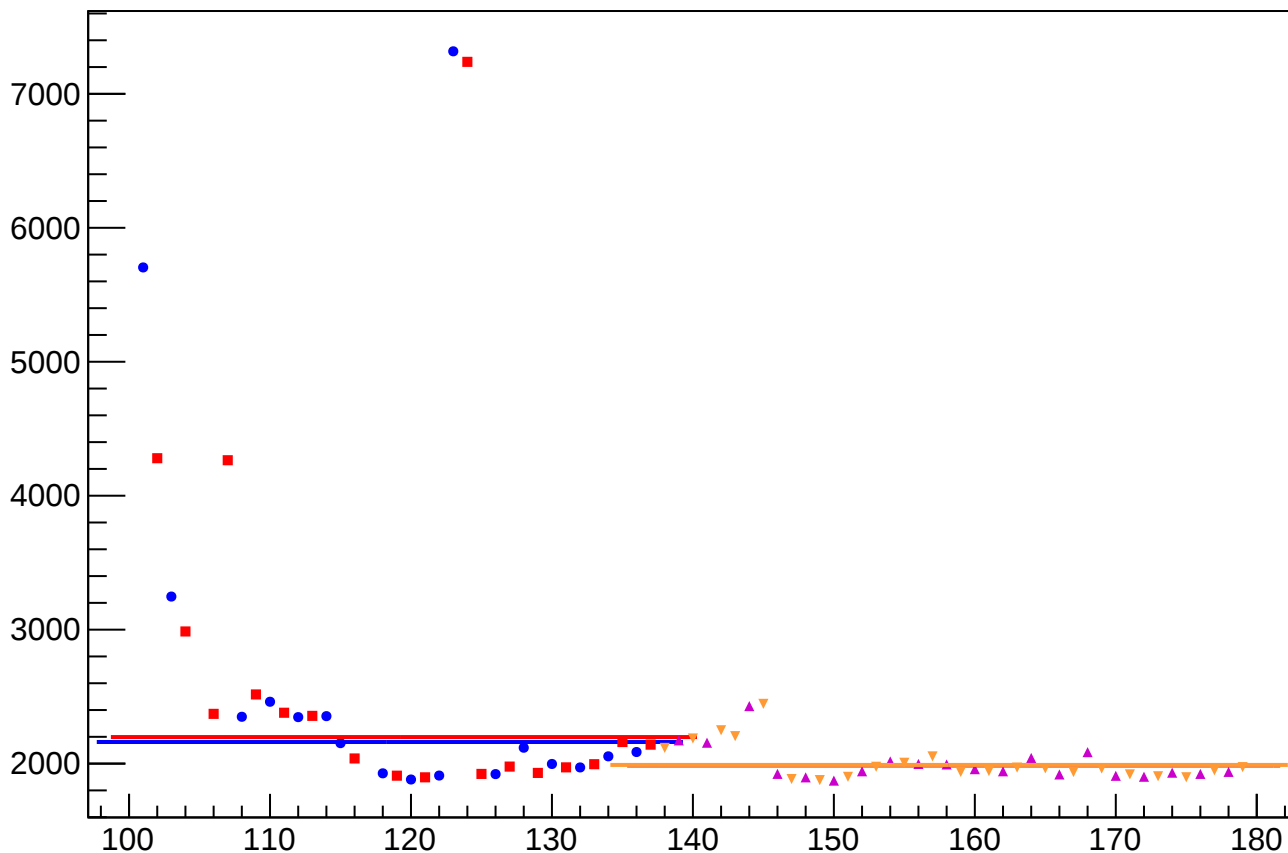
Right: 2138.530 $\pm$ 606.010  $\chi^2/\text{NDF}$ : 35.7/34

In: 2235.276 $\pm$ 434.318  $\chi^2/\text{NDF}$ : 41.2/36

Out: 1858.334 $\pm$ 424.098  $\chi^2/\text{NDF}$ : 44.7/39

All: 2042.318 $\pm$ 303.432  $\chi^2/\text{NDF}$ : 86.2/76

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



Right In: 2161.418+/-0.607  $\chi^2/\text{NDF}$ : 711253.3/16

Left Out: 1990.170+/-0.345  $\chi^2/\text{NDF}$ : 126199.6/21

Right Out: 2198.187+/-0.605  $\chi^2/\text{NDF}$ : 733873.5/17

Left In: 1985.820+/-0.356  $\chi^2/\text{NDF}$ : 108016.7/19

Left: 1988.061+/-0.248  $\chi^2/\text{NDF}$ : 234293.1/41

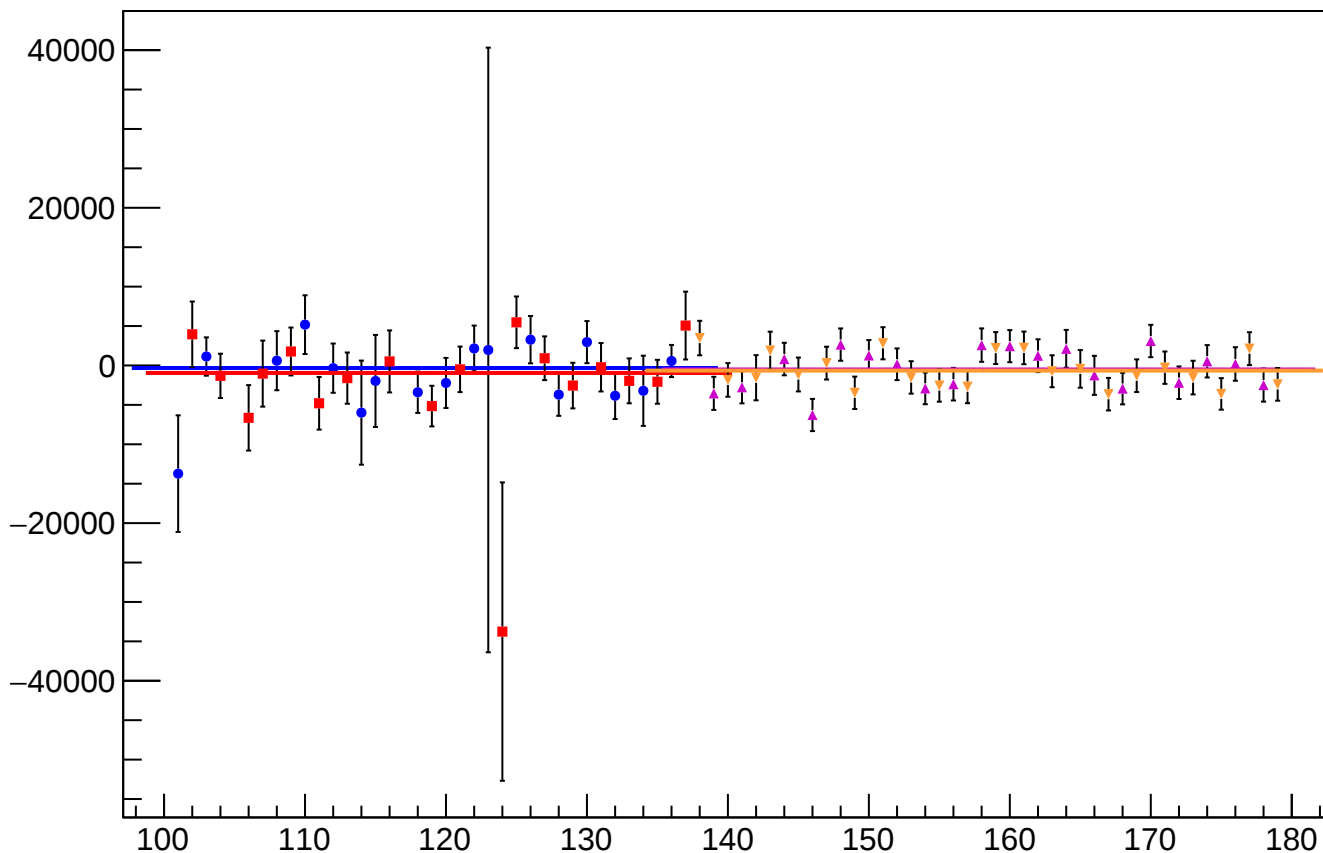
Right: 2179.883+/-0.429  $\chi^2/\text{NDF}$ : 1446967.4/34

In: 2030.720+/-0.307  $\chi^2/\text{NDF}$ : 881489.8/36

Out: 2041.331+/-0.300  $\chi^2/\text{NDF}$ : 949308.6/39

All: 2036.152+/-0.215  $\chi^2/\text{NDF}$ : 1831409.4/76

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



Right In:  $-323.738 \pm 779.509$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $-650.394 \pm 452.411$   $\chi^2/\text{NDF}$ : 23.1/21

Right Out:  $-951.303 \pm 770.284$   $\chi^2/\text{NDF}$ : 18.2/17

Left In:  $-509.908 \pm 465.834$   $\chi^2/\text{NDF}$ : 29.9/19

Left:  $-582.204 \pm 324.545$   $\chi^2/\text{NDF}$ : 53.1/41

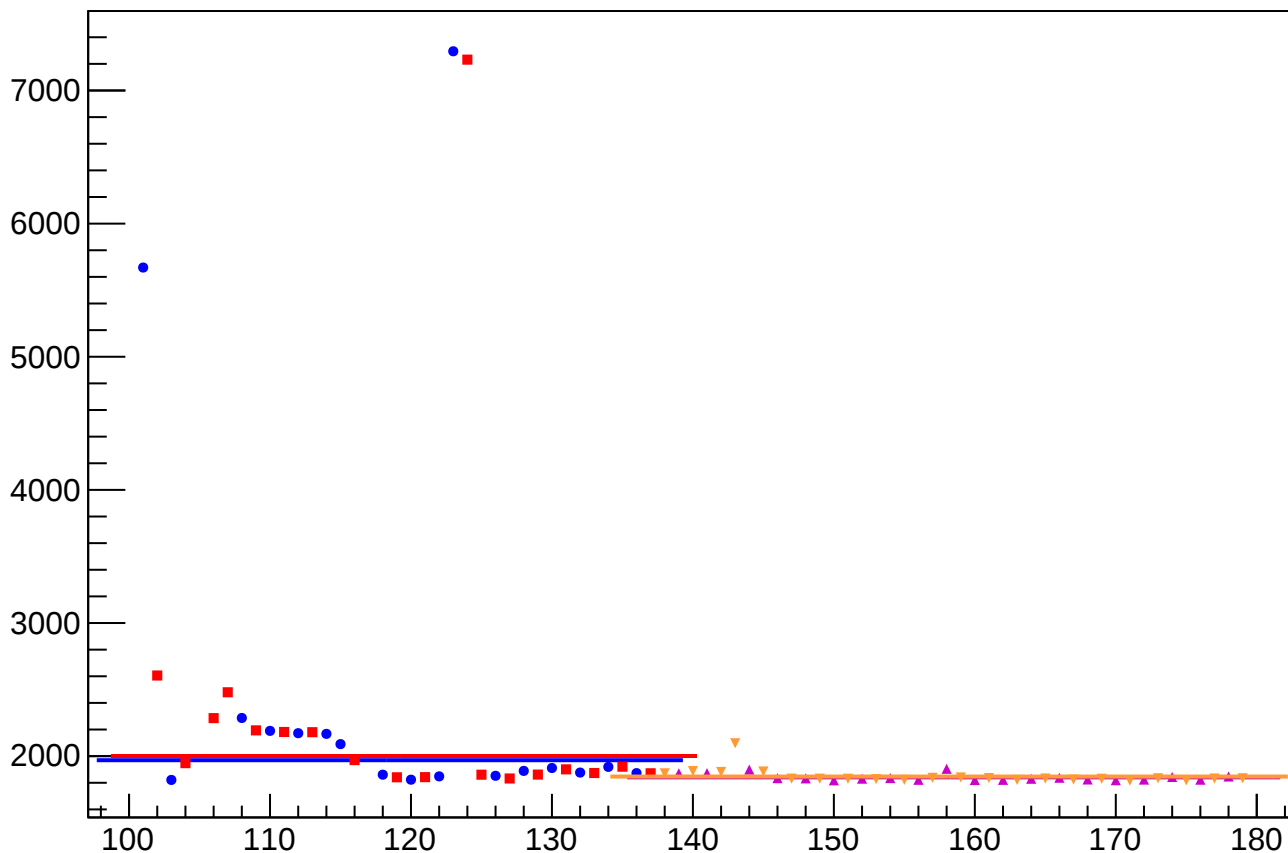
Right:  $-641.256 \pm 547.905$   $\chi^2/\text{NDF}$ : 34.3/34

In:  $-460.918 \pm 399.872$   $\chi^2/\text{NDF}$ : 45.7/36

Out:  $-727.571 \pm 390.103$   $\chi^2/\text{NDF}$ : 41.4/39

All:  $-597.542 \pm 279.234$   $\chi^2/\text{NDF}$ : 87.4/76

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



Right In: 1969.494+/-0.551  $\chi^2/\text{NDF}$ : 602810.5/16

Left Out: 1846.854+/-0.320  $\chi^2/\text{NDF}$ : 26362.5/21

Right Out: 2001.177+/-0.545  $\chi^2/\text{NDF}$ : 290624.5/17

Left In: 1840.665+/-0.329  $\chi^2/\text{NDF}$ : 5902.2/19

Left: 1843.850+/-0.229  $\chi^2/\text{NDF}$ : 32446.3/41

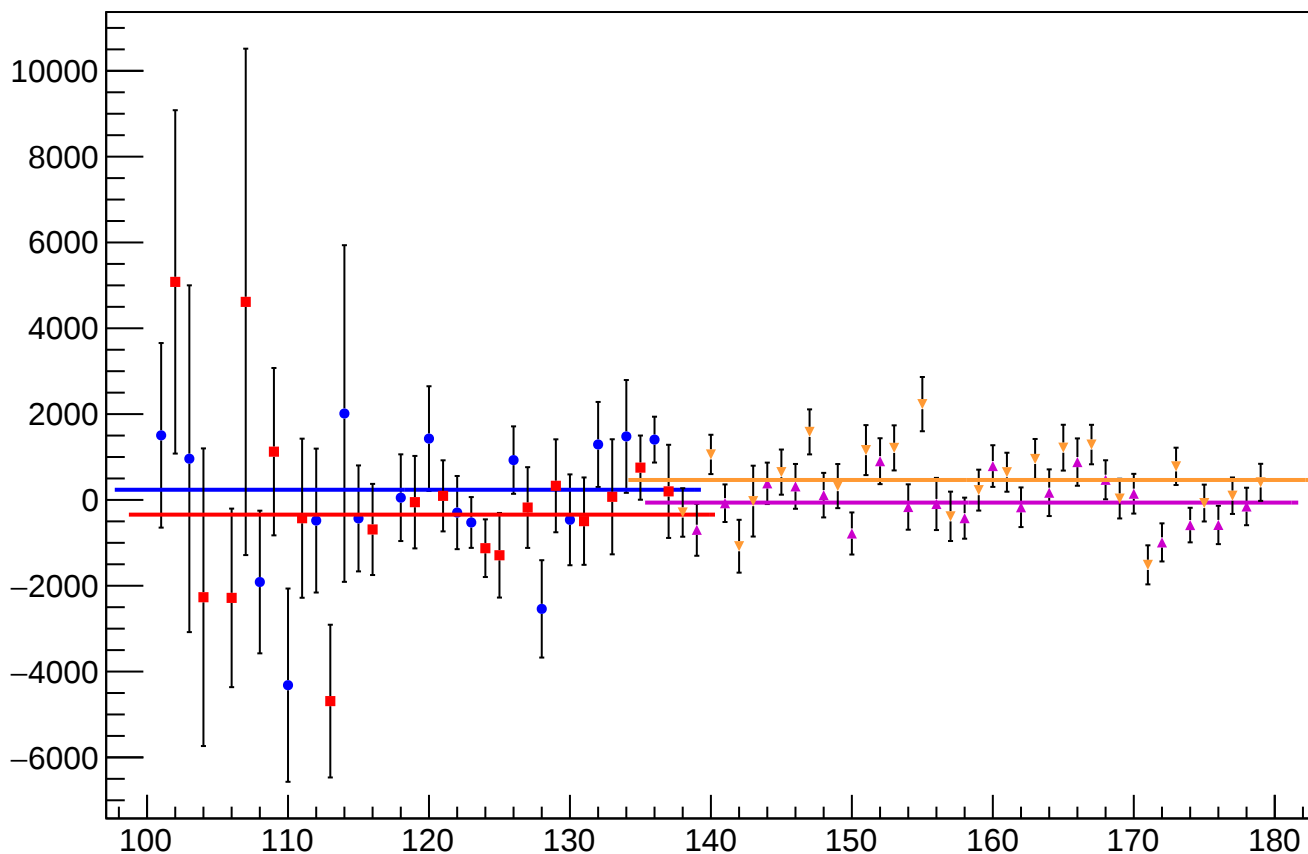
Right: 1985.524+/-0.387  $\chi^2/\text{NDF}$ : 895106.7/34

In: 1874.566+/-0.283  $\chi^2/\text{NDF}$ : 648965.5/36

Out: 1886.435+/-0.276  $\chi^2/\text{NDF}$ : 376674.9/39

All: 1880.647+/-0.197  $\chi^2/\text{NDF}$ : 1026543.2/76

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



Right In: 236.864 $\pm$ 248.604  $\chi^2$ /NDF: 23.9/16

Left Out: 464.796 $\pm$ 106.416  $\chi^2$ /NDF:57.7/21

Right Out: -342.796 $\pm$ 268.580  $\chi^2$ /NDF: 15.9/17

Left In: -62.514 $\pm$ 108.797  $\chi^2$ /NDF:23.9/19

Left: 206.975 $\pm$ 76.075  $\chi^2$ /NDF: 93.6/41

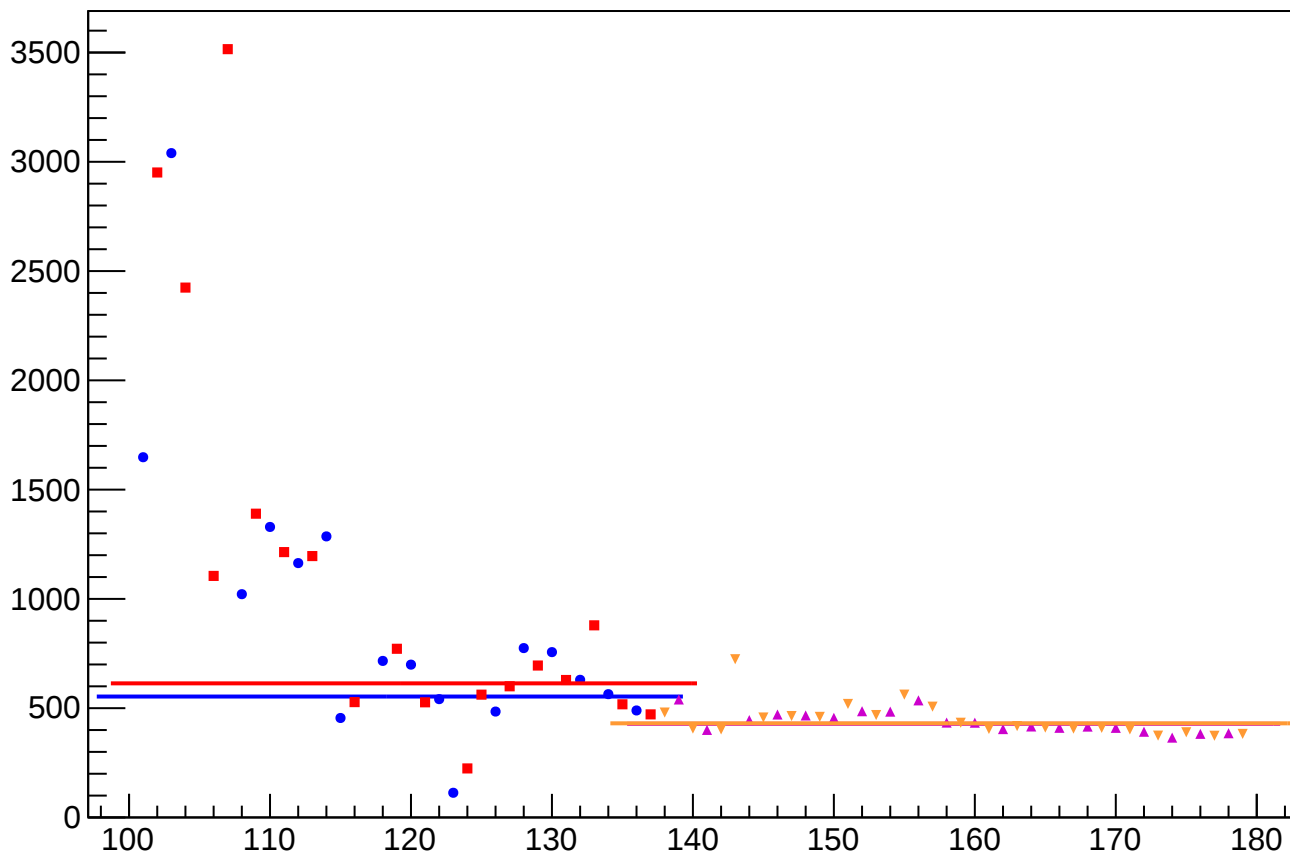
Right: -30.610 $\pm$ 182.443  $\chi^2$ /NDF: 42.3/34

In: -14.393 $\pm$ 99.671  $\chi^2$ /NDF:49.0/36

Out: 355.216 $\pm$ 98.933  $\chi^2$ /NDF:81.4/39

All: 171.784 $\pm$ 70.215  $\chi^2$ /NDF: 137.3/76

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



Right In:  $553.280 \pm 0.176$   $\chi^2/\text{NDF}$ : 3412747.4/16

Left Out:  $430.701 \pm 0.075$   $\chi^2/\text{NDF}$ : 615762.2/21

Right Out:  $613.577 \pm 0.190$   $\chi^2/\text{NDF}$ : 3476374.3/17

Left In:  $428.404 \pm 0.077$   $\chi^2/\text{NDF}$ : 333343.5/19

Left:  $429.577 \pm 0.054$   $\chi^2/\text{NDF}$ : 949561.3/41

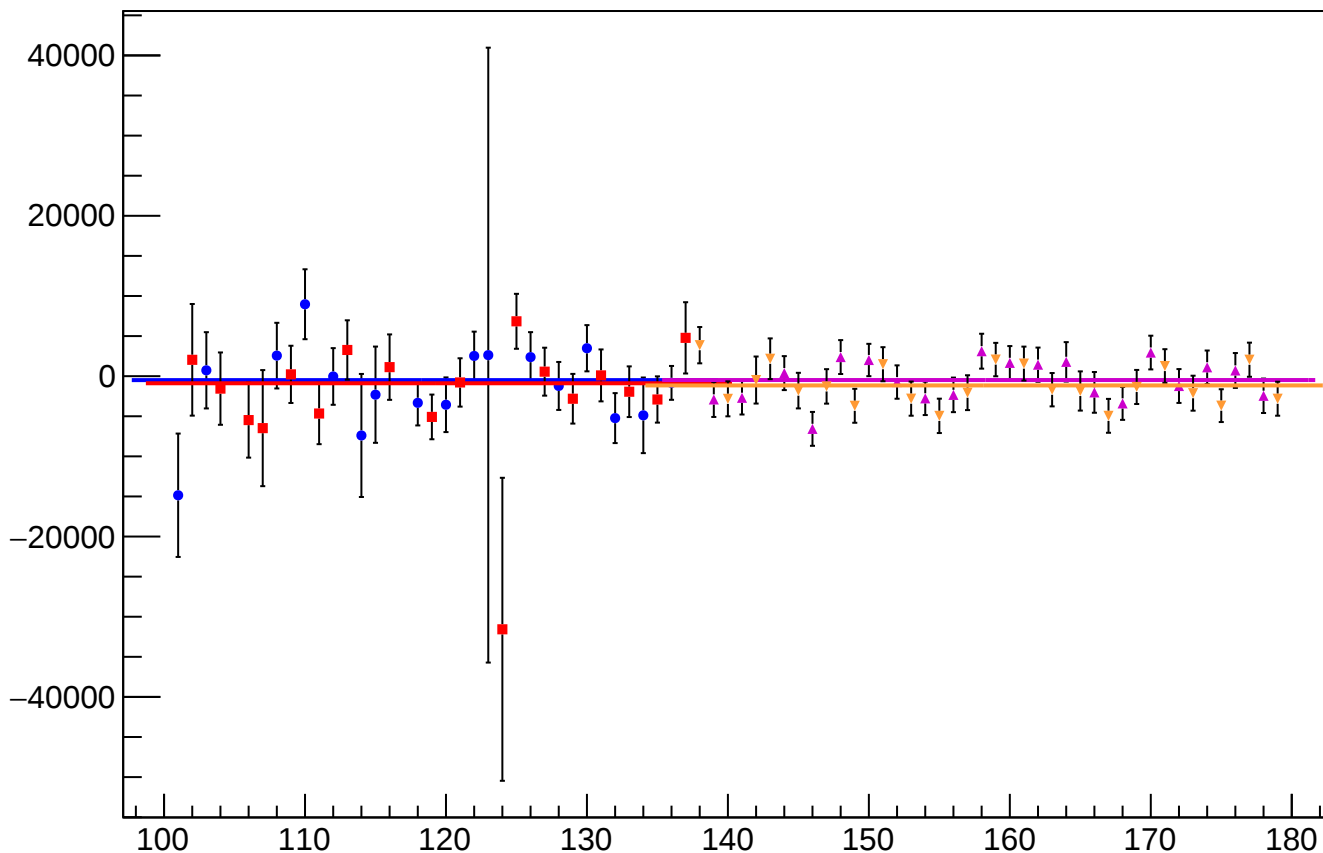
Right:  $581.103 \pm 0.129$   $\chi^2/\text{NDF}$ : 6943410.9/34

In:  $448.476 \pm 0.070$   $\chi^2/\text{NDF}$ : 4169609.5/36

Out:  $455.514 \pm 0.070$   $\chi^2/\text{NDF}$ : 4893573.5/39

All:  $452.021 \pm 0.050$   $\chi^2/\text{NDF}$ : 9068207.0/76

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



Right In:  $-491.940 \pm 867.988$   $\chi^2/\text{NDF}$ : 18.6/16

Left Out:  $-1153.508 \pm 465.836$   $\chi^2/\text{NDF}$ : 27.6/21

Right Out:  $-884.654 \pm 869.140$   $\chi^2/\text{NDF}$ : 17.3/17

Left In:  $-481.599 \pm 479.028$   $\chi^2/\text{NDF}$ : 28.5/19

Left:  $-826.933 \pm 333.962$   $\chi^2/\text{NDF}$ : 57.1/41

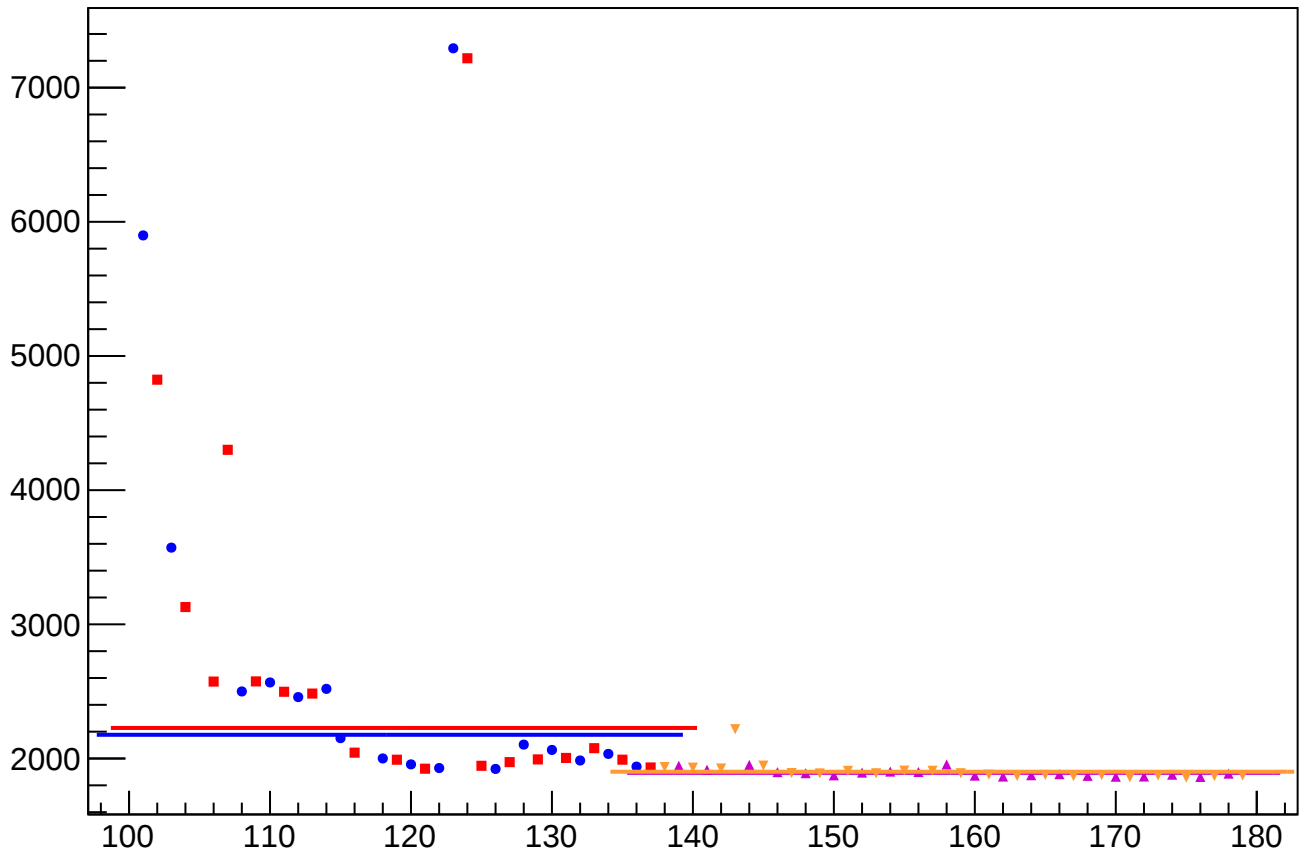
Right:  $-688.036 \pm 614.167$   $\chi^2/\text{NDF}$ : 35.9/34

In:  $-484.013 \pm 419.398$   $\chi^2/\text{NDF}$ : 47.0/36

Out:  $-1093.511 \pm 410.581$   $\chi^2/\text{NDF}$ : 44.9/39

All:  $-795.236 \pm 293.392$   $\chi^2/\text{NDF}$ : 93.1/76

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



Right In: 2176.746 $\pm$ 0.614  $\chi^2$ /NDF: 802677.9/16

Left Out: 1901.514 $\pm$ 0.329  $\chi^2$ /NDF: 37795.6/21

Right Out: 2227.688 $\pm$ 0.615  $\chi^2$ /NDF: 825665.5/17

Left In: 1892.937 $\pm$ 0.339  $\chi^2$ /NDF: 6925.9/19

Left: 1897.346 $\pm$ 0.236  $\chi^2$ /NDF: 45051.1/41

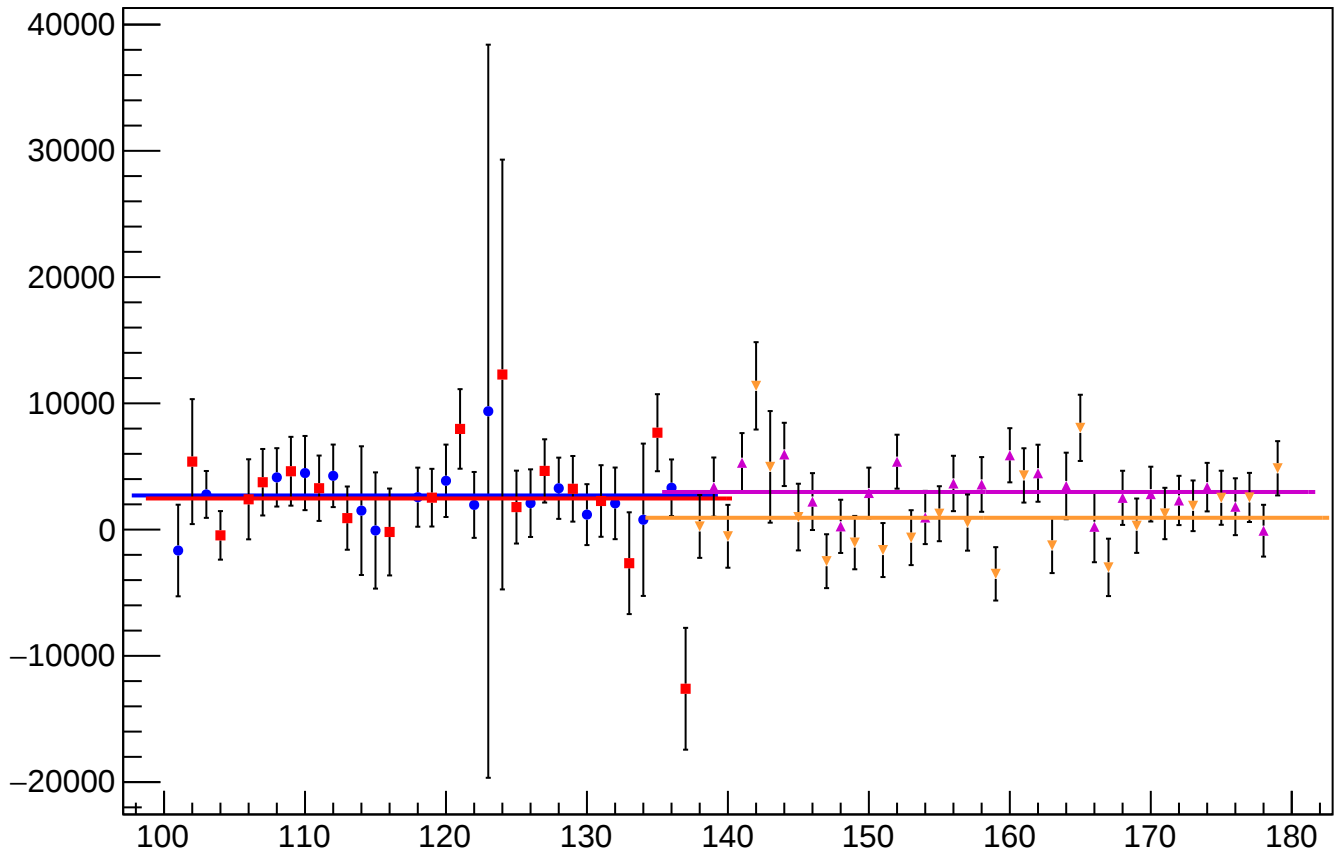
Right: 2202.183 $\pm$ 0.434  $\chi^2$ /NDF: 1631783.3/34

In: 1959.197 $\pm$ 0.297  $\chi^2$ /NDF: 973506.1/36

Out: 1974.304 $\pm$ 0.290  $\chi^2$ /NDF: 1082278.2/39

All: 1966.911 $\pm$ 0.207  $\chi^2$ /NDF: 2057109.3/76

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



Right In: 2703.508+/-673.898  $\chi^2/\text{NDF}$ : 4.0/16

Left Out: 935.177+/-483.434  $\chi^2/\text{NDF}$ : 38.9/21

Right Out: 2464.583+/-683.276  $\chi^2/\text{NDF}$ : 23.2/17

Left In: 2978.493+/-491.494  $\chi^2/\text{NDF}$ : 12.5/19

Left: 1939.944+/-344.654  $\chi^2/\text{NDF}$ : 60.2/41

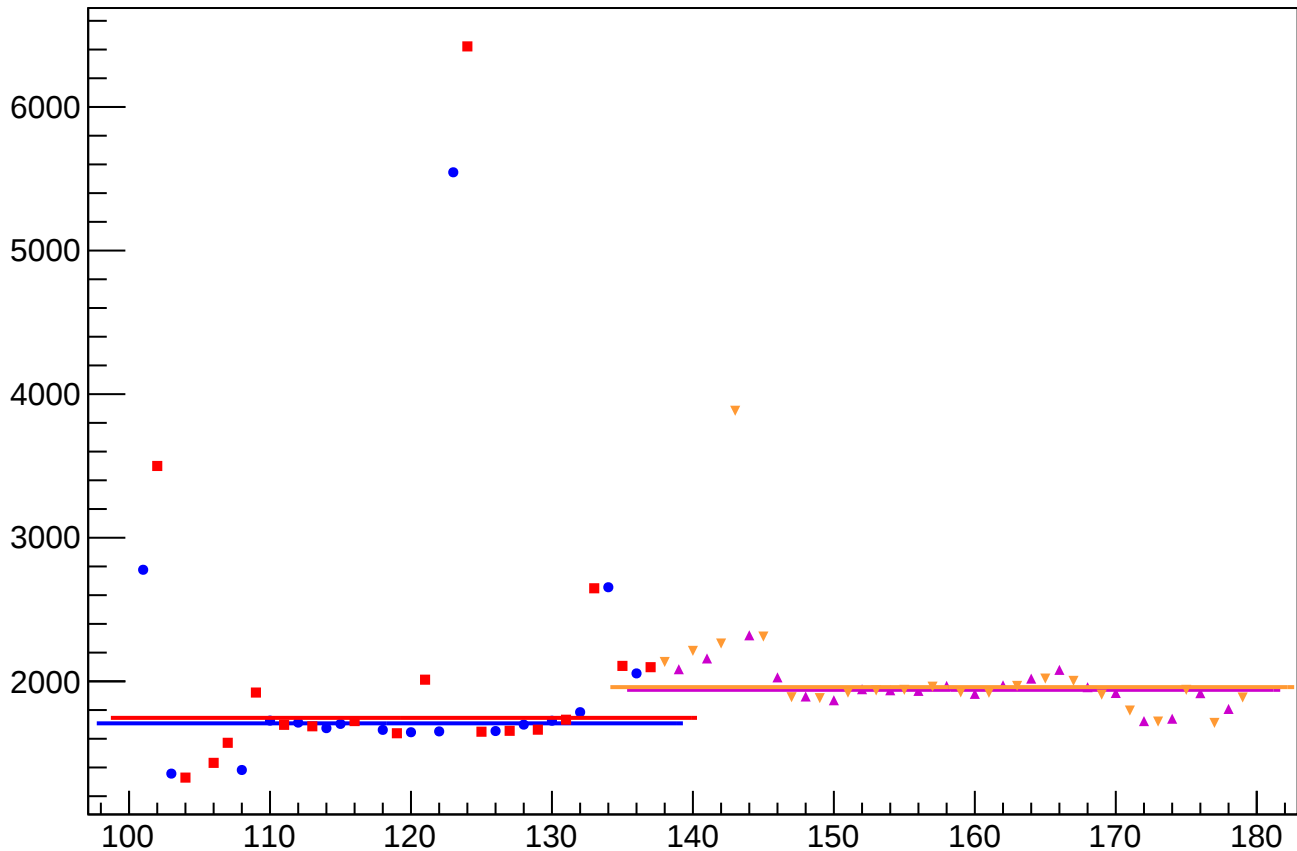
Right: 2585.697+/-479.799  $\chi^2/\text{NDF}$ : 27.3/34

In: 2883.011+/-397.100  $\chi^2/\text{NDF}$ : 16.7/36

Out: 1445.380+/-394.645  $\chi^2/\text{NDF}$ : 65.5/39

All: 2159.737+/-279.920  $\chi^2/\text{NDF}$ : 88.7/76

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



Right In:  $1707.386 \pm 0.477$   $\chi^2/\text{NDF}: 422166.4/16$

Left Out:  $1959.620 \pm 0.342$   $\chi^2/\text{NDF}: 547358.7/21$

Right Out:  $1745.551 \pm 0.483$   $\chi^2/\text{NDF}: 699240.7/17$

Left In:  $1940.836 \pm 0.348$   $\chi^2/\text{NDF}: 140835.6/19$

Left:  $1950.383 \pm 0.244$   $\chi^2/\text{NDF}: 689679.0/41$

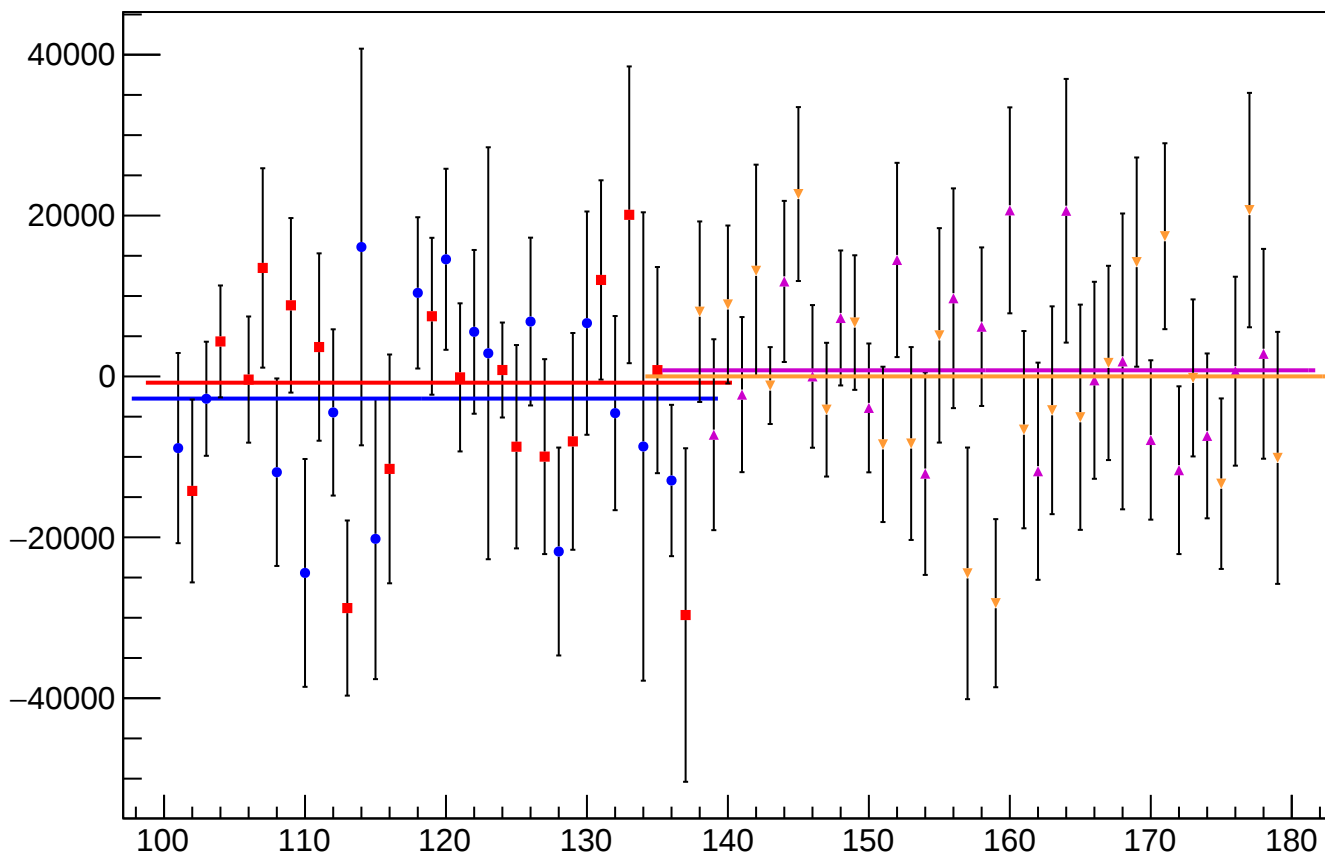
Right:  $1726.210 \pm 0.339$   $\chi^2/\text{NDF}: 1124571.0/34$

In:  $1859.776 \pm 0.281$   $\chi^2/\text{NDF}: 719674.9/36$

Out:  $1888.181 \pm 0.279$   $\chi^2/\text{NDF}: 1377469.8/39$

All:  $1874.068 \pm 0.198$   $\chi^2/\text{NDF}: 2102293.5/76$

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



Right In: -2750.725 $\pm$ 2842.399  $\chi^2$ /NDF: 14.6/16

Left Out: 6.749 $\pm$ 2193.238  $\chi^2$ /NDF:26.8/21

Right Out: -774.921 $\pm$ 2440.788  $\chi^2$ /NDF: 17.7/17

Left In: 764.942 $\pm$ 2453.408  $\chi^2$ /NDF:13.4/19

Left: 343.526 $\pm$ 1635.126  $\chi^2$ /NDF: 40.3/41

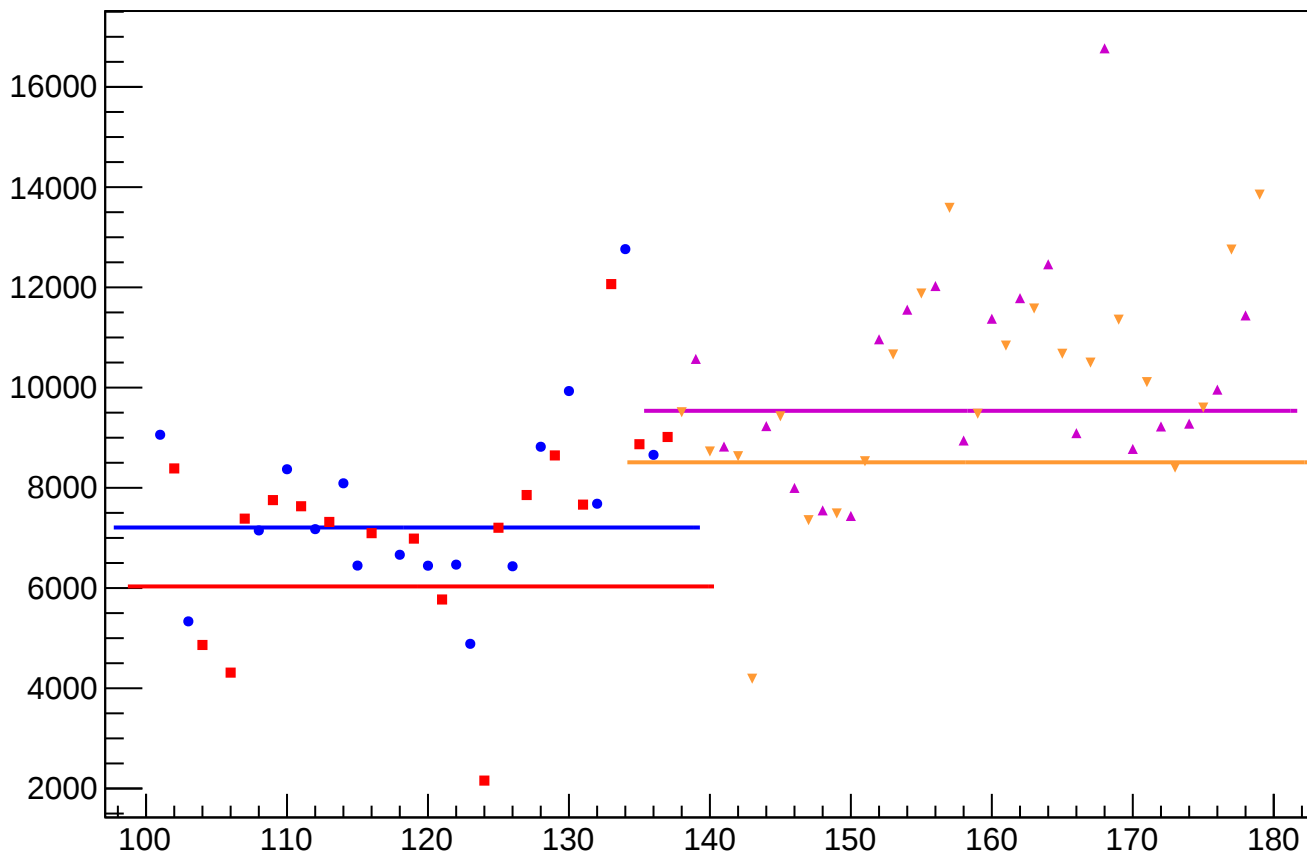
Right: -1613.491 $\pm$ 1851.753  $\chi^2$ /NDF: 32.6/34

In: -736.043 $\pm$ 1857.245  $\chi^2$ /NDF:28.8/36

Out: -342.448 $\pm$ 1631.374  $\chi^2$ /NDF:44.6/39

All: -513.868 $\pm$ 1225.677  $\chi^2$ /NDF: 73.5/76

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



Right In: 7208.346+/-2.010  $\chi^2/\text{NDF}$ : 493749.9/16

Left Out: 8509.106+/-1.551  $\chi^2/\text{NDF}$ : 2997192.6/21

Right Out: 6032.193+/-1.726  $\chi^2/\text{NDF}$ : 1797562.8/17

Left In: 9536.635+/-1.735  $\chi^2/\text{NDF}$ : 1023080.1/19

Left: 8965.518+/-1.156  $\chi^2/\text{NDF}$ : 4215261.3/41

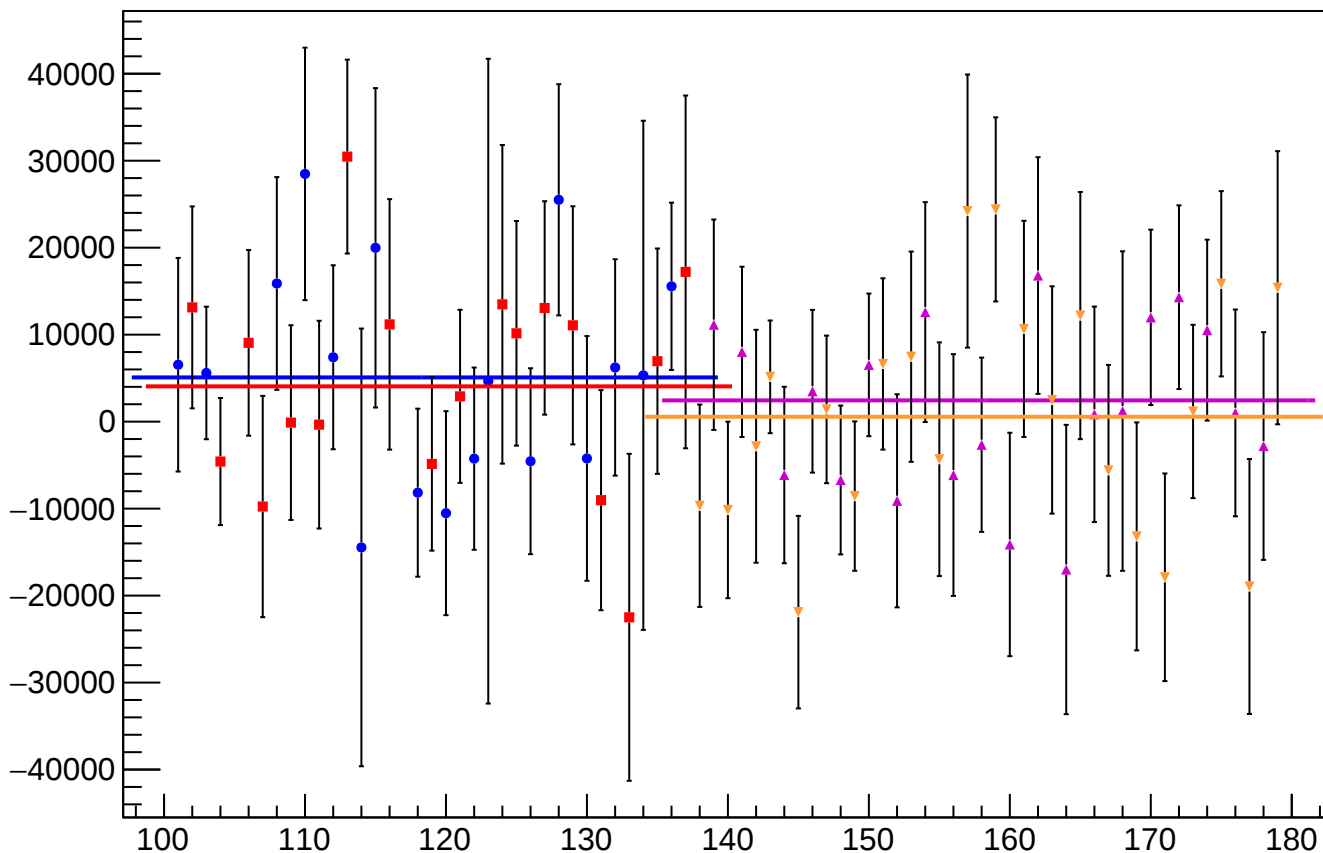
Right: 6531.375+/-1.309  $\chi^2/\text{NDF}$ : 2488415.8/34

In: 8542.592+/-1.313  $\chi^2/\text{NDF}$ : 2285840.9/36

Out: 7402.590+/-1.154  $\chi^2/\text{NDF}$ : 5934289.5/39

All: 7899.089+/-0.867  $\chi^2/\text{NDF}$ : 8645481.1/76

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



Right In: 5084.628 $\pm$ 2955.245  $\chi^2$ /NDF: 14.0/16

Left Out: 561.461 $\pm$ 2341.893  $\chi^2$ /NDF:25.7/21

Right Out: 4055.589 $\pm$ 2800.076  $\chi^2$ /NDF: 15.2/17

Left In: 2444.933 $\pm$ 2495.998  $\chi^2$ /NDF:12.2/19

Left: 1443.262 $\pm$ 1707.851  $\chi^2$ /NDF: 38.3/41

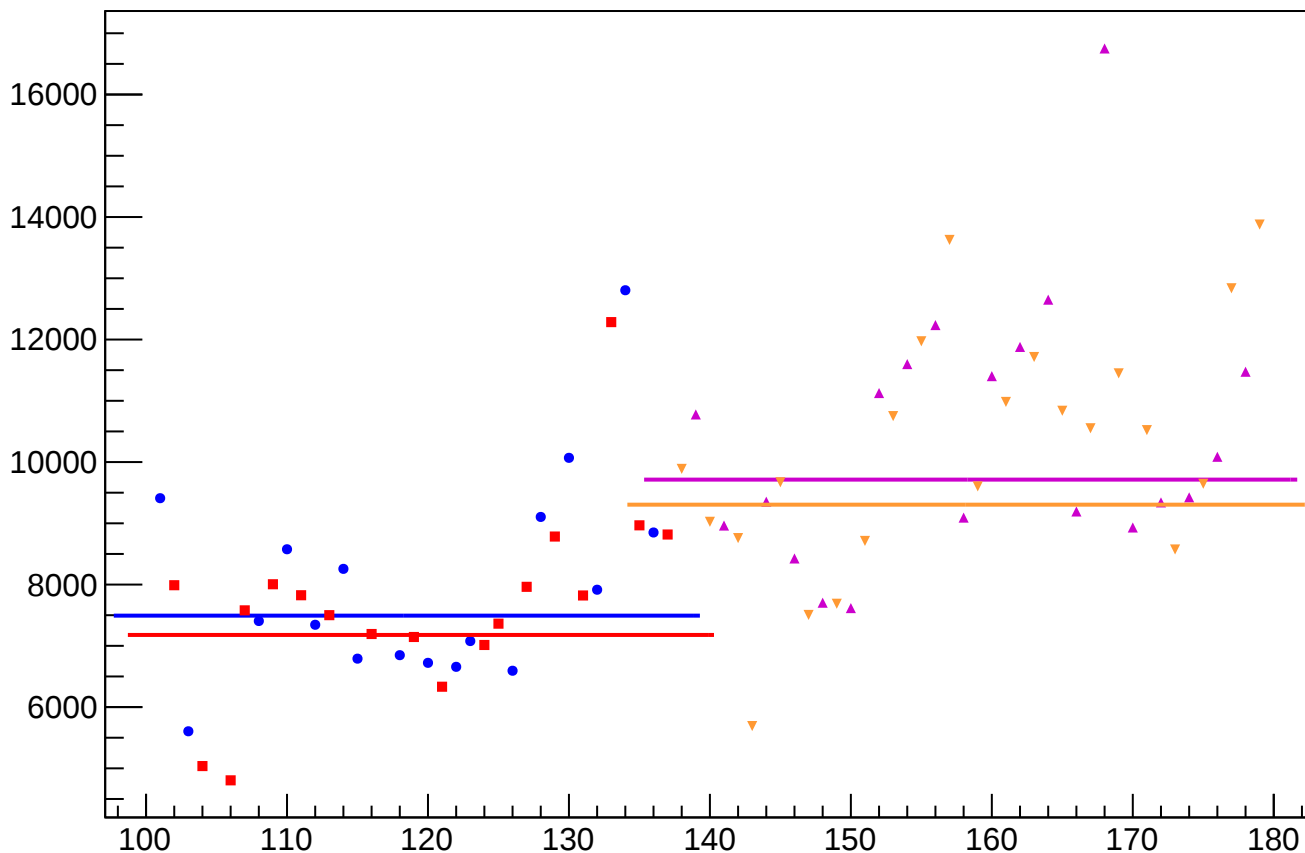
Right: 4542.385 $\pm$ 2032.595  $\chi^2$ /NDF: 29.2/34

In: 3543.963 $\pm$ 1906.871  $\chi^2$ /NDF:26.7/36

Out: 1999.628 $\pm$ 1796.408  $\chi^2$ /NDF:41.8/39

All: 2725.771 $\pm$ 1307.561  $\chi^2$ /NDF: 68.8/76

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



Right In: 7492.918 +/- 2.090  $\chi^2/\text{NDF}$ : 437084.4/16

Left Out: 9304.487 +/- 1.656  $\chi^2/\text{NDF}$ : 1585158.8/21

Right Out: 7177.811 +/- 1.980  $\chi^2/\text{NDF}$ : 555902.2/17

Left In: 9713.412 +/- 1.765  $\chi^2/\text{NDF}$ : 952440.7/19

Left: 9495.937 +/- 1.208  $\chi^2/\text{NDF}$ : 2566148.6/41

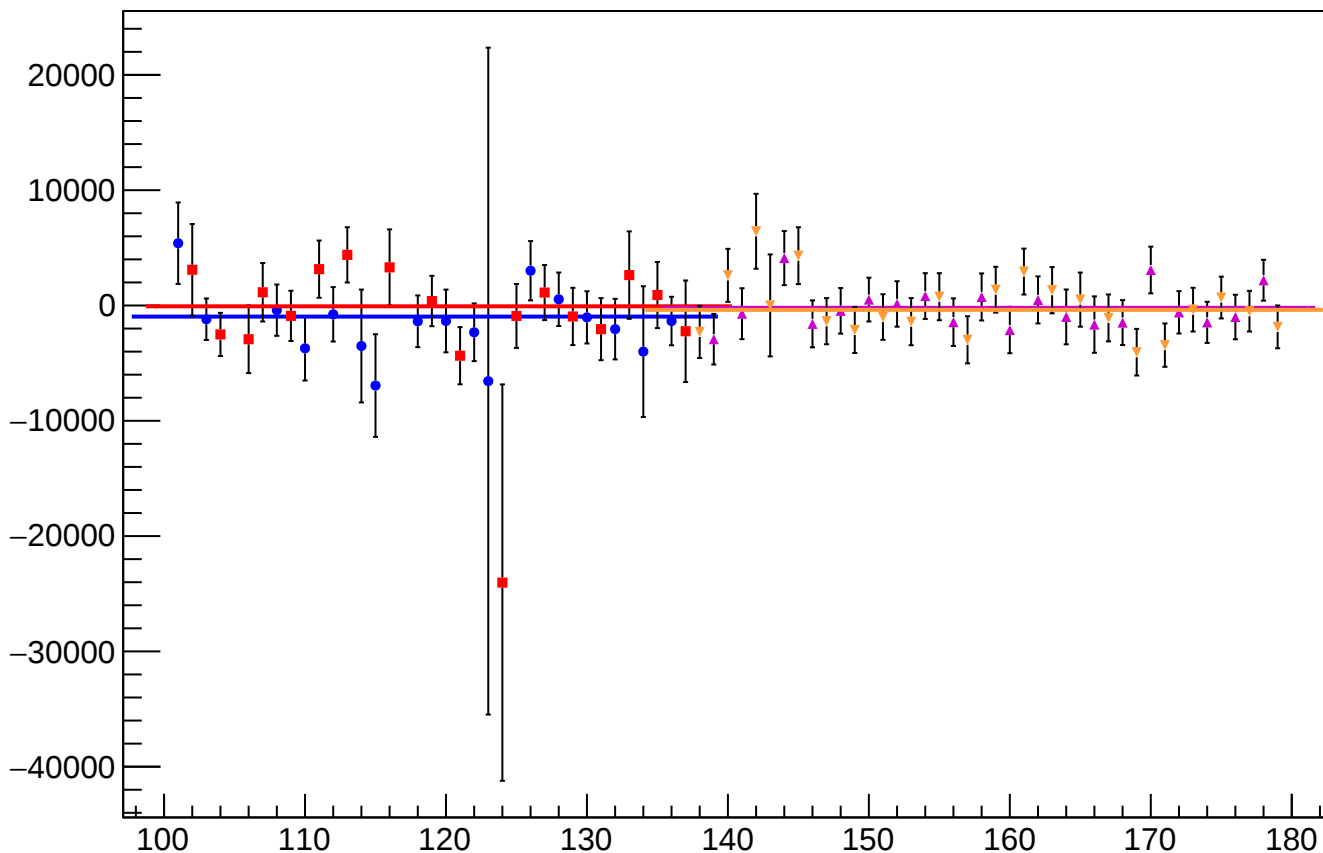
Right: 7326.859 +/- 1.437  $\chi^2/\text{NDF}$ : 1004970.1/34

In: 8788.887 +/- 1.348  $\chi^2/\text{NDF}$ : 2048561.8/36

Out: 8429.024 +/- 1.270  $\chi^2/\text{NDF}$ : 2820007.0/39

All: 8598.223 +/- 0.925  $\chi^2/\text{NDF}$ : 4906309.0/76

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



Right In: -962.541 $\pm$ 643.025  $\chi^2$ /NDF: 10.1/16

Left Out: -379.345 $\pm$ 444.217  $\chi^2$ /NDF:25.2/21

Right Out: -71.322 $\pm$ 634.426  $\chi^2$ /NDF: 16.7/17

Left In: -203.059 $\pm$ 452.190  $\chi^2$ /NDF:13.5/19

Left: -292.770 $\pm$ 316.890  $\chi^2$ /NDF: 38.8/41

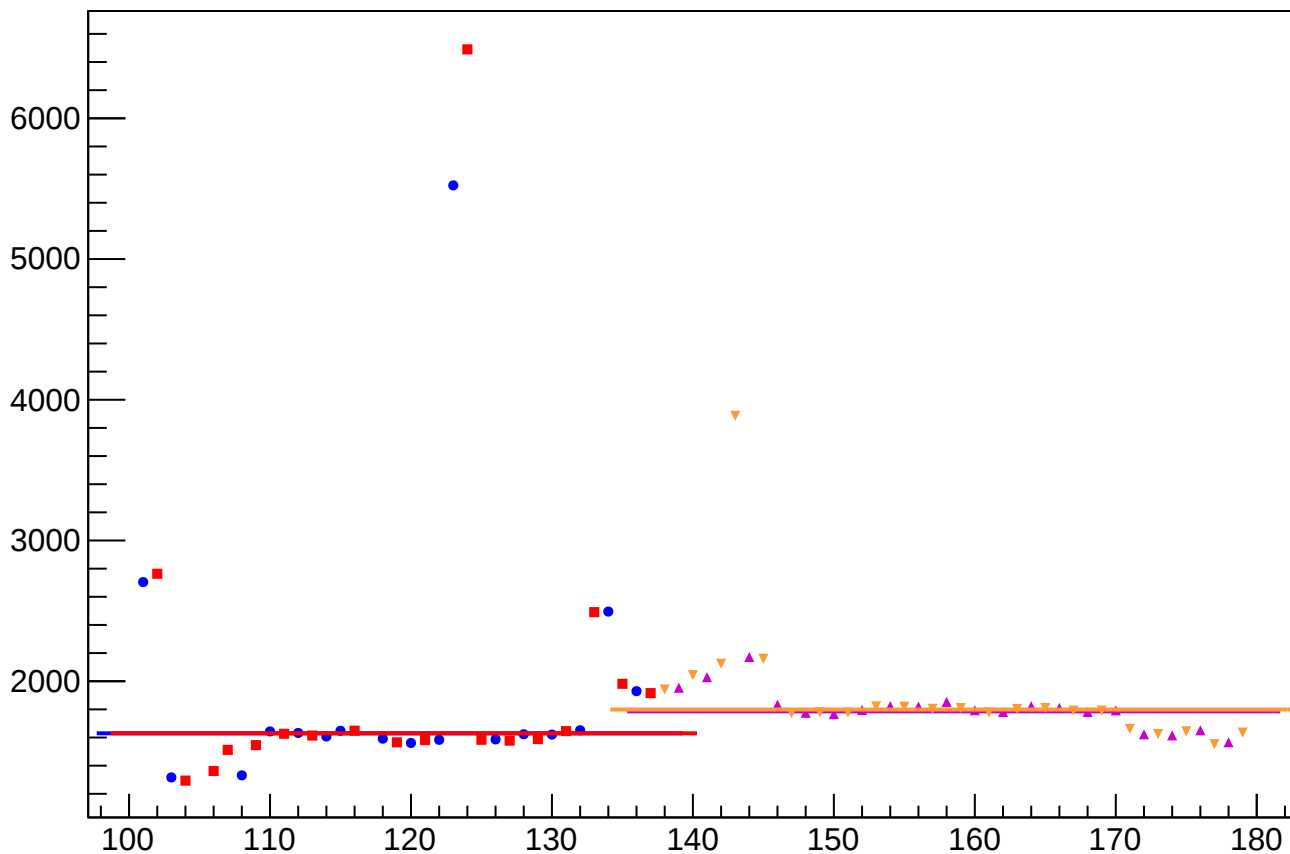
Right: -510.933 $\pm$ 451.616  $\chi^2$ /NDF: 27.8/34

In: -454.364 $\pm$ 369.887  $\chi^2$ /NDF:24.5/36

Out: -278.013 $\pm$ 363.885  $\chi^2$ /NDF:42.1/39

All: -364.746 $\pm$ 259.402  $\chi^2$ /NDF: 66.7/76

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



Right In: 1629.954+/-0.455  $\chi^2/\text{NDF}$ : 408151.7/16

Left Out: 1798.991+/-0.314  $\chi^2/\text{NDF}$ : 637051.4/21

Right Out: 1629.941+/-0.449  $\chi^2/\text{NDF}$ : 557457.4/17

Left In: 1785.708+/-0.320  $\chi^2/\text{NDF}$ : 170310.7/19

Left: 1792.468+/-0.224  $\chi^2/\text{NDF}$ : 808240.3/41

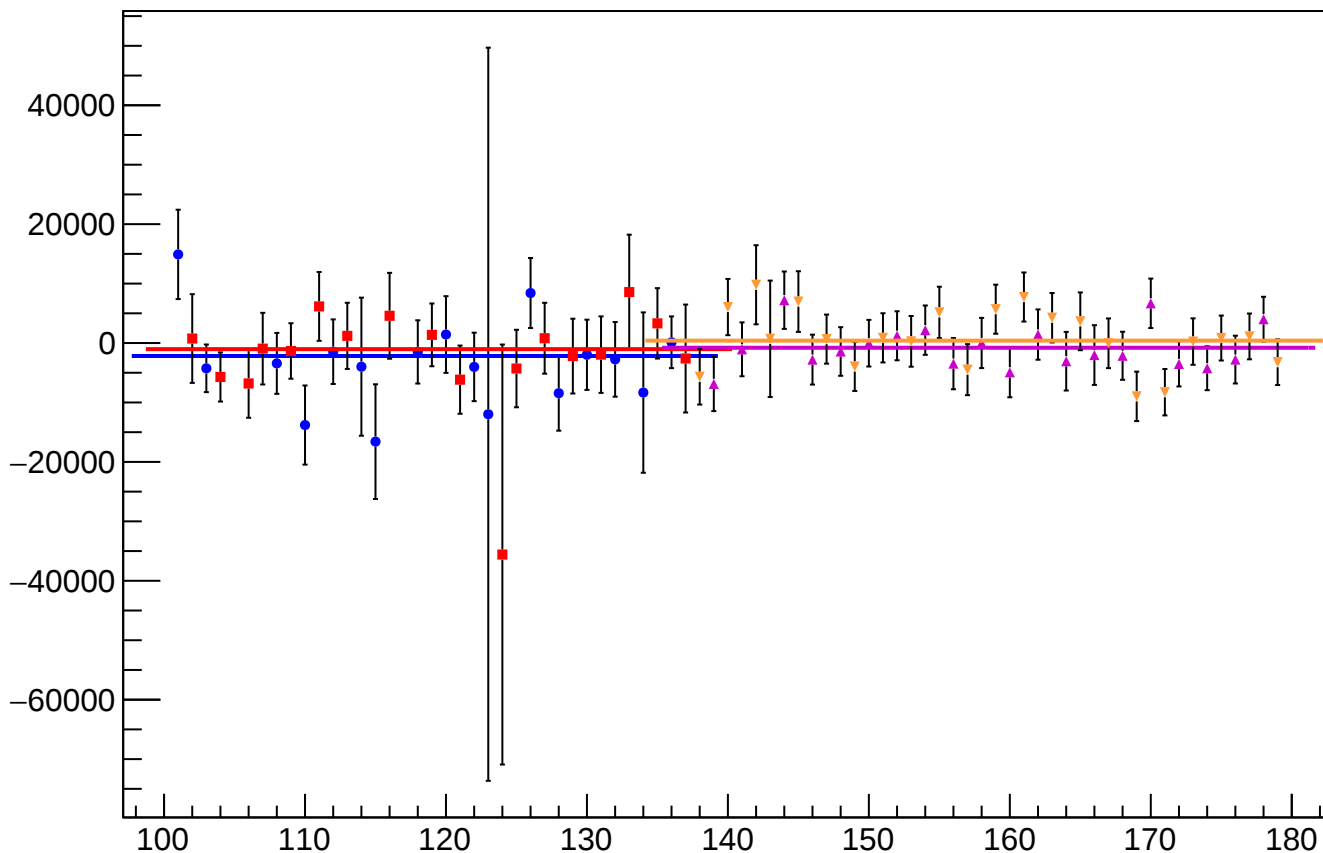
Right: 1629.948+/-0.319  $\chi^2/\text{NDF}$ : 965609.1/34

In: 1734.170+/-0.262  $\chi^2/\text{NDF}$ : 656976.7/36

Out: 1743.377+/-0.257  $\chi^2/\text{NDF}$ : 1289796.3/39

All: 1738.849+/-0.183  $\chi^2/\text{NDF}$ : 1947402.8/76

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



Right In:  $-2179.244 \pm 1493.026$   $\chi^2/\text{NDF}$ : 16.0/16

Left Out:  $401.093 \pm 924.693$   $\chi^2/\text{NDF}$ : 27.5/21

Right Out:  $-1026.991 \pm 1442.331$   $\chi^2/\text{NDF}$ : 8.6/17

Left In:  $-792.774 \pm 938.762$   $\chi^2/\text{NDF}$ : 14.1/19

Left:  $-186.827 \pm 658.774$   $\chi^2/\text{NDF}$ : 42.4/41

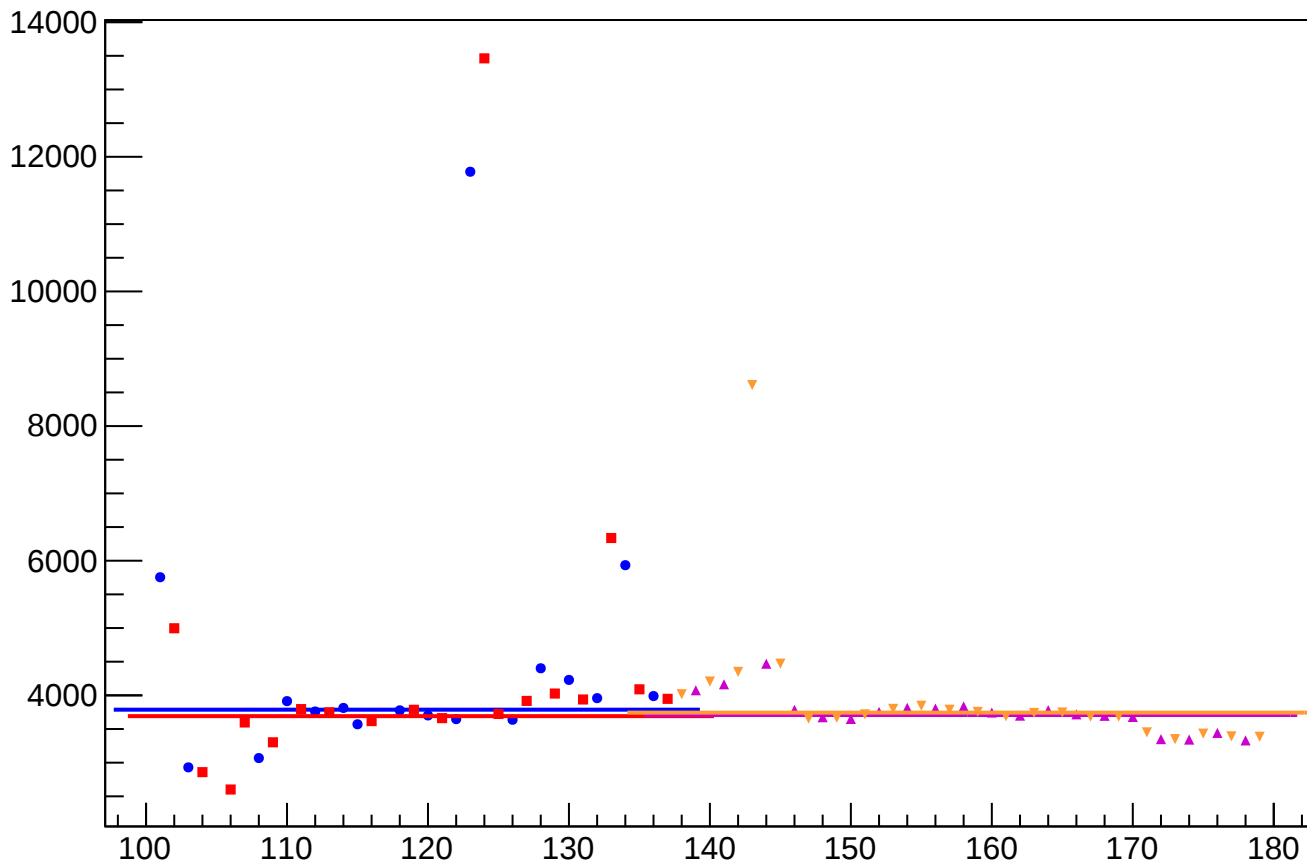
Right:  $-1583.224 \pm 1037.341$   $\chi^2/\text{NDF}$ : 24.9/34

In:  $-1185.604 \pm 794.721$   $\chi^2/\text{NDF}$ : 30.7/36

Out:  $-14.899 \pm 778.450$   $\chi^2/\text{NDF}$ : 36.8/39

All:  $-588.145 \pm 556.110$   $\chi^2/\text{NDF}$ : 68.5/76

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



Right In: 3787.301+/-1.056  $\chi^2/\text{NDF}$ : 392650.8/16

Left Out: 3743.788+/-0.654  $\chi^2/\text{NDF}$ : 660257.4/21

Right Out: 3691.246+/-1.020  $\chi^2/\text{NDF}$ : 555157.1/17

Left In: 3708.229+/-0.664  $\chi^2/\text{NDF}$ : 155508.0/19

Left: 3726.277+/-0.466  $\chi^2/\text{NDF}$ : 817221.9/41

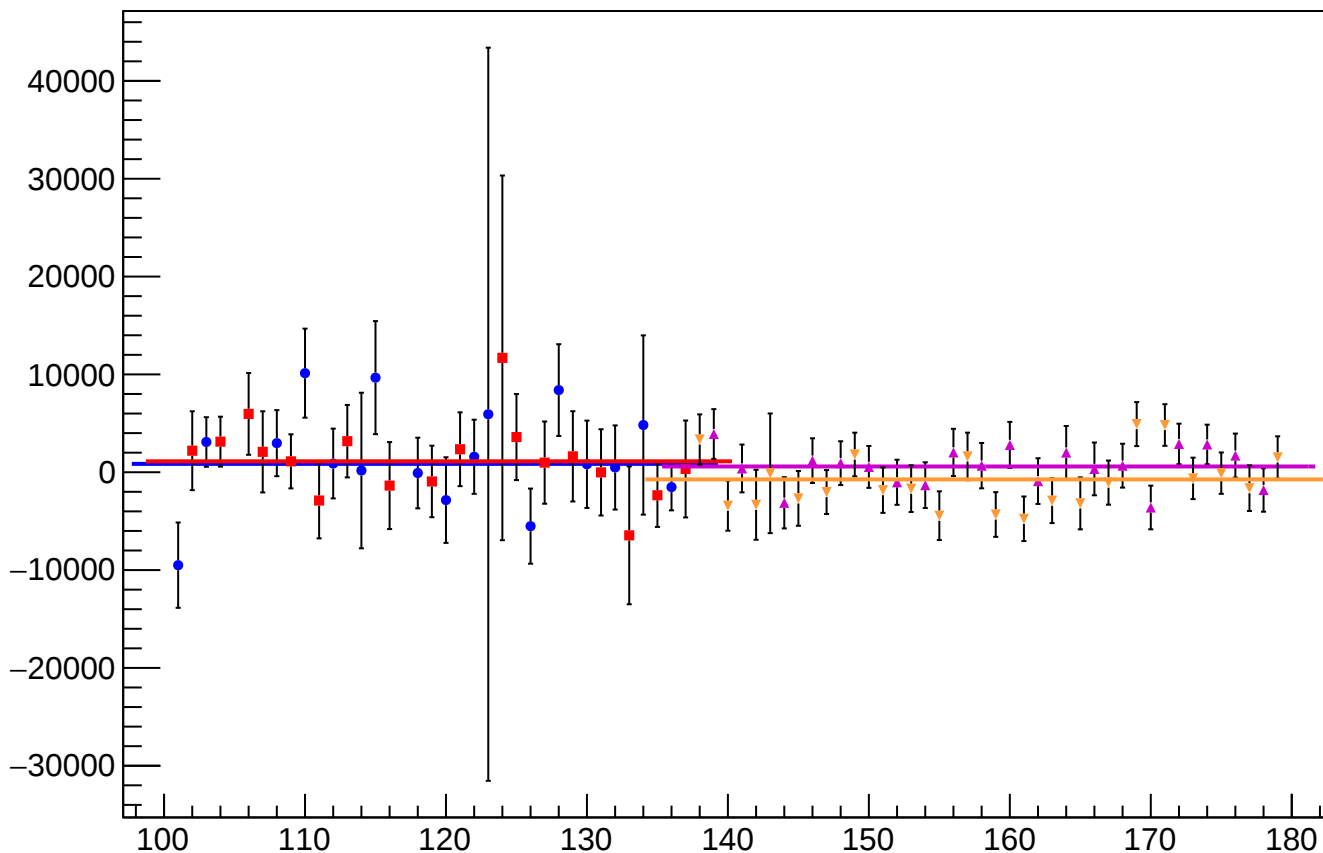
Right: 3737.614+/-0.734  $\chi^2/\text{NDF}$ : 952090.1/34

In: 3730.632+/-0.562  $\chi^2/\text{NDF}$ : 552179.2/36

Out: 3728.482+/-0.550  $\chi^2/\text{NDF}$ : 1217295.5/39

All: 3729.535+/-0.393  $\chi^2/\text{NDF}$ : 1769482.2/76

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



Right In: 856.187 $\pm$ 964.743  $\chi^2$ /NDF: 20.7/16

Left Out: -731.581 $\pm$ 512.593  $\chi^2$ /NDF:31.7/21

Right Out: 1117.553 $\pm$ 927.195  $\chi^2$ /NDF: 7.3/17

Left In: 588.754 $\pm$ 518.276  $\chi^2$ /NDF:14.3/19

Left: -78.693 $\pm$ 364.451  $\chi^2$ /NDF: 49.3/41

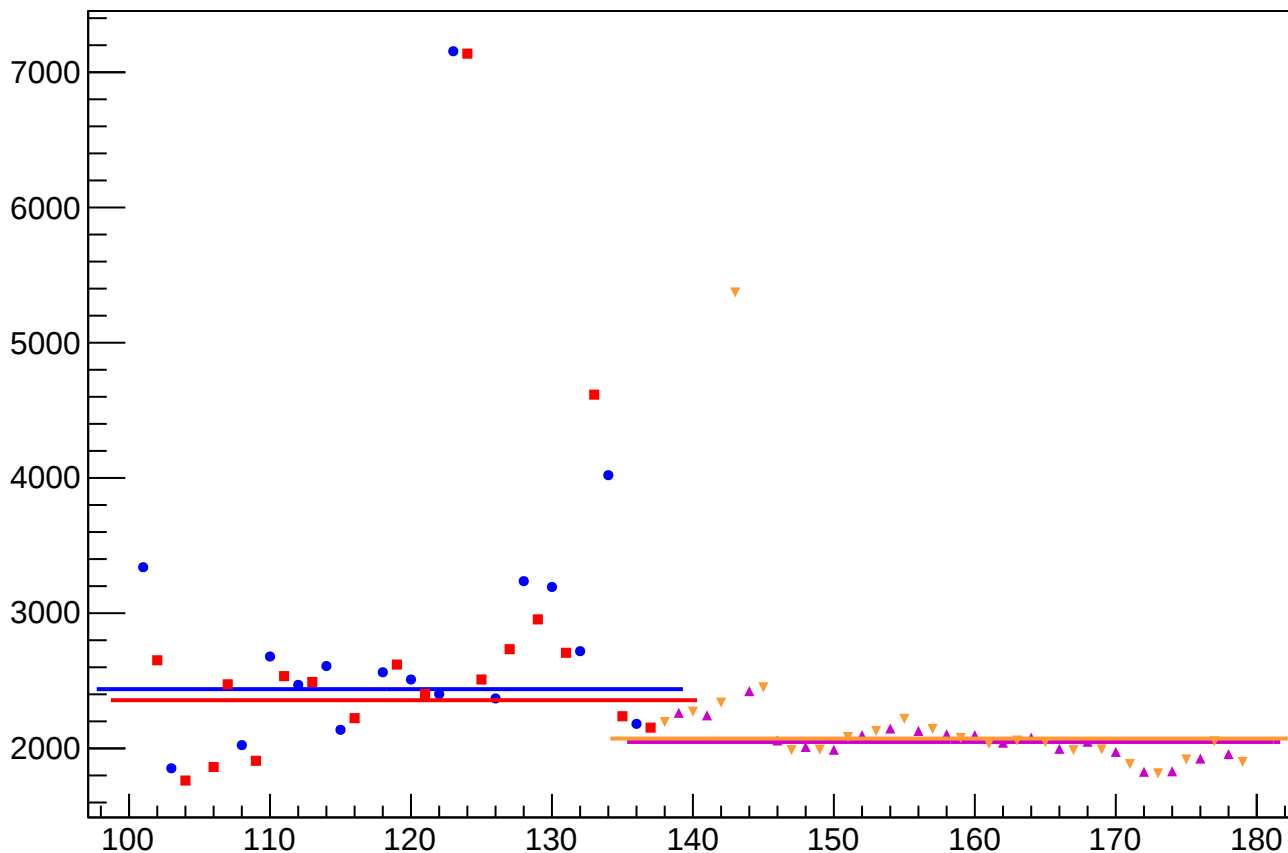
Right: 992.055 $\pm$ 668.506  $\chi^2$ /NDF: 28.0/34

In: 648.649 $\pm$ 456.564  $\chi^2$ /NDF:35.0/36

Out: -298.719 $\pm$ 448.603  $\chi^2$ /NDF:42.0/39

All: 166.633 $\pm$ 319.988  $\chi^2$ /NDF: 79.2/76

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



Right In:  $2438.275 \pm 0.682$   $\chi^2/\text{NDF}: 476723.4/16$

Left Out:  $2072.914 \pm 0.362$   $\chi^2/\text{NDF}: 736722.0/21$

Right Out:  $2356.405 \pm 0.656$   $\chi^2/\text{NDF}: 629132.8/17$

Left In:  $2047.808 \pm 0.366$   $\chi^2/\text{NDF}: 137797.5/19$

Left:  $2060.499 \pm 0.258$   $\chi^2/\text{NDF}: 876892.0/41$

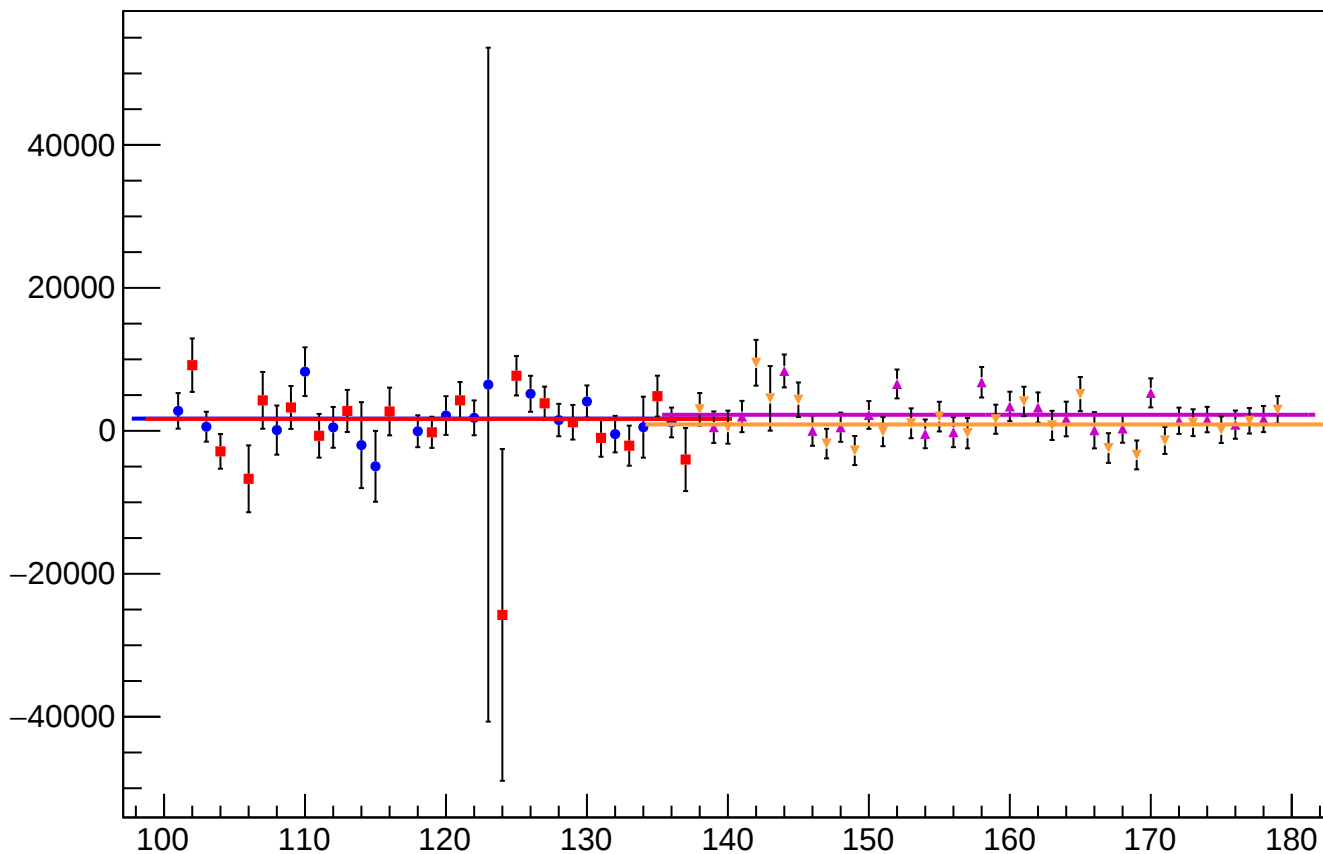
Right:  $2395.716 \pm 0.473$   $\chi^2/\text{NDF}: 1113343.5/34$

In:  $2135.259 \pm 0.323$   $\chi^2/\text{NDF}: 868769.8/36$

Out:  $2139.277 \pm 0.317$   $\chi^2/\text{NDF}: 1509055.7/39$

All:  $2137.303 \pm 0.226$   $\chi^2/\text{NDF}: 2377904.3/76$

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



Right In: 1712.566 $\pm$ 667.149  $\chi^2/\text{NDF}$ : 11.4/16

Left Out: 895.219 $\pm$ 451.578  $\chi^2/\text{NDF}$ : 32.1/21

Right Out: 1665.369 $\pm$ 695.701  $\chi^2/\text{NDF}$ : 26.8/17

Left In: 2246.539 $\pm$ 460.022  $\chi^2/\text{NDF}$ : 27.3/19

Left: 1558.364 $\pm$ 322.258  $\chi^2/\text{NDF}$ : 63.8/41

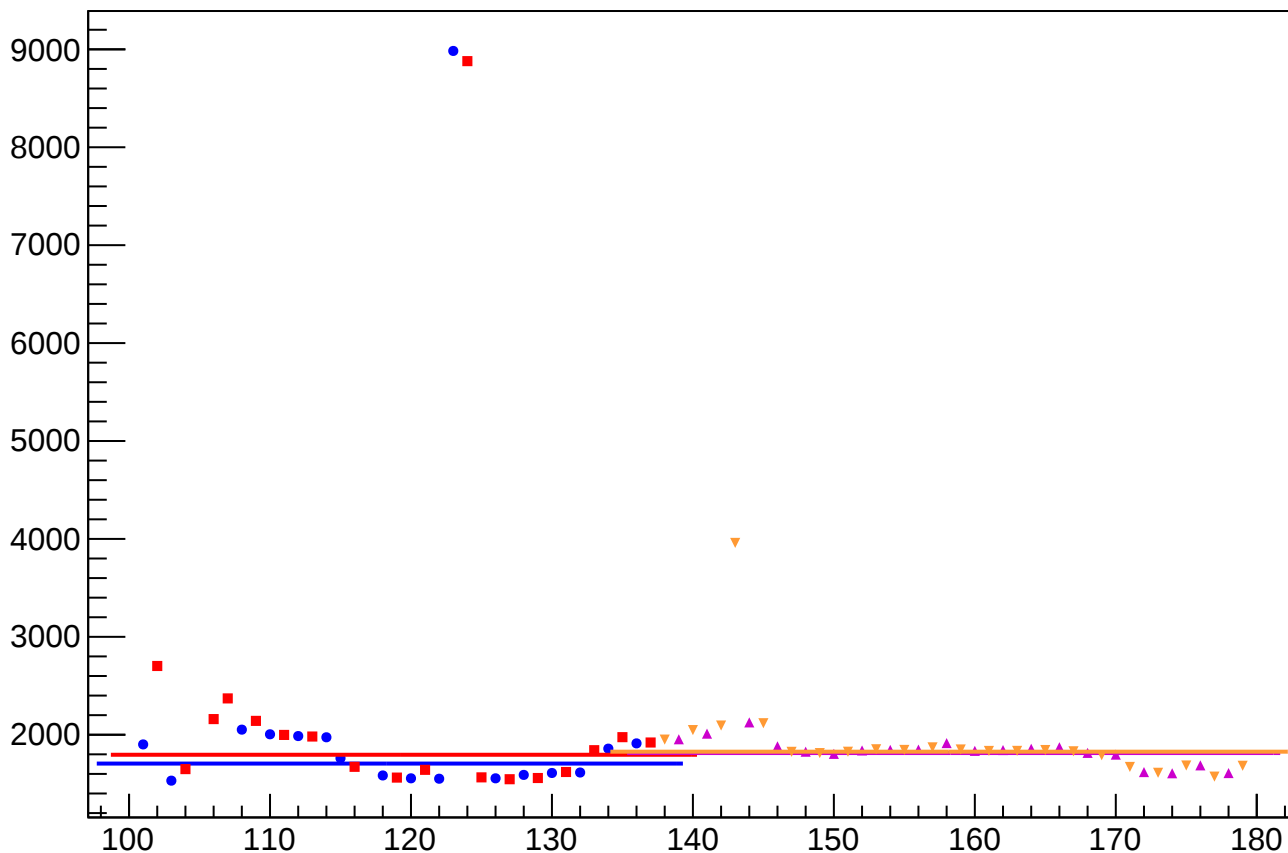
Right: 1689.956 $\pm$ 481.523  $\chi^2/\text{NDF}$ : 38.2/34

In: 2074.469 $\pm$ 378.717  $\chi^2/\text{NDF}$ : 39.1/36

Out: 1123.517 $\pm$ 378.779  $\chi^2/\text{NDF}$ : 59.8/39

All: 1599.071 $\pm$ 267.815  $\chi^2/\text{NDF}$ : 102.0/76

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



Right In: 1705.624+/-0.472  $\chi^2/\text{NDF}$ : 194174.2/16

Left Out: 1827.057+/-0.319  $\chi^2/\text{NDF}$ : 618332.3/21

Right Out: 1795.574+/-0.491  $\chi^2/\text{NDF}$ : 518805.1/17

Left In: 1813.143+/-0.325  $\chi^2/\text{NDF}$ : 155024.2/19

Left: 1820.229+/-0.228  $\chi^2/\text{NDF}$ : 774288.4/41

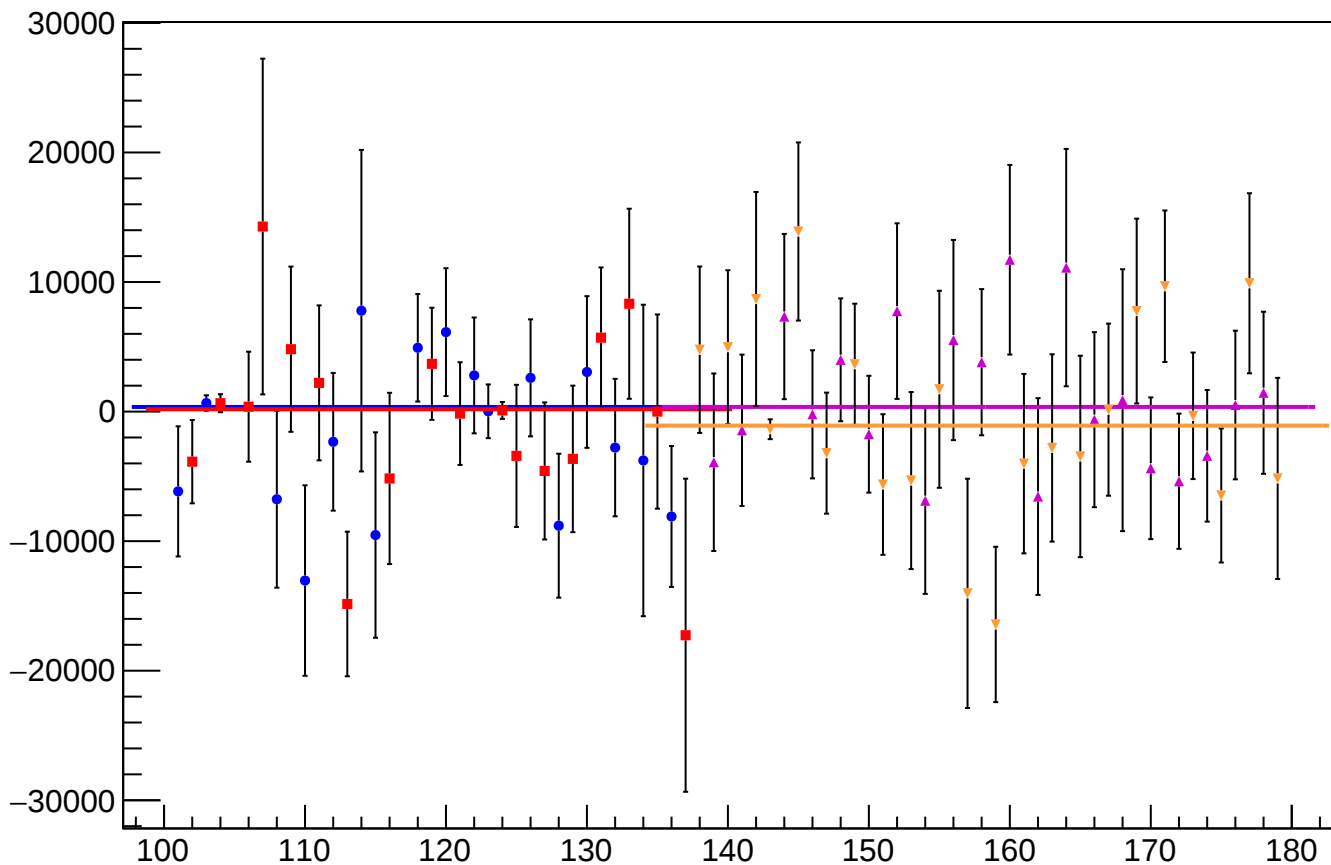
Right: 1748.814+/-0.340  $\chi^2/\text{NDF}$ : 730436.4/34

In: 1778.495+/-0.268  $\chi^2/\text{NDF}$ : 384405.1/36

Out: 1817.696+/-0.268  $\chi^2/\text{NDF}$ : 1140027.9/39

All: 1798.105+/-0.189  $\chi^2/\text{NDF}$ : 1535152.2/76

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



Right In: 357.025+/-533.209  $\chi^2/\text{NDF}$ : 17.5/16

Left Out: -1082.708+/-667.898  $\chi^2/\text{NDF}$ :28.5/21

Right Out: 179.185+/-446.995  $\chi^2/\text{NDF}$ : 18.5/17

Left In: 359.491+/-1356.392  $\chi^2/\text{NDF}$ :12.7/19

Left: -801.265+/-599.194  $\chi^2/\text{NDF}$ : 42.1/41

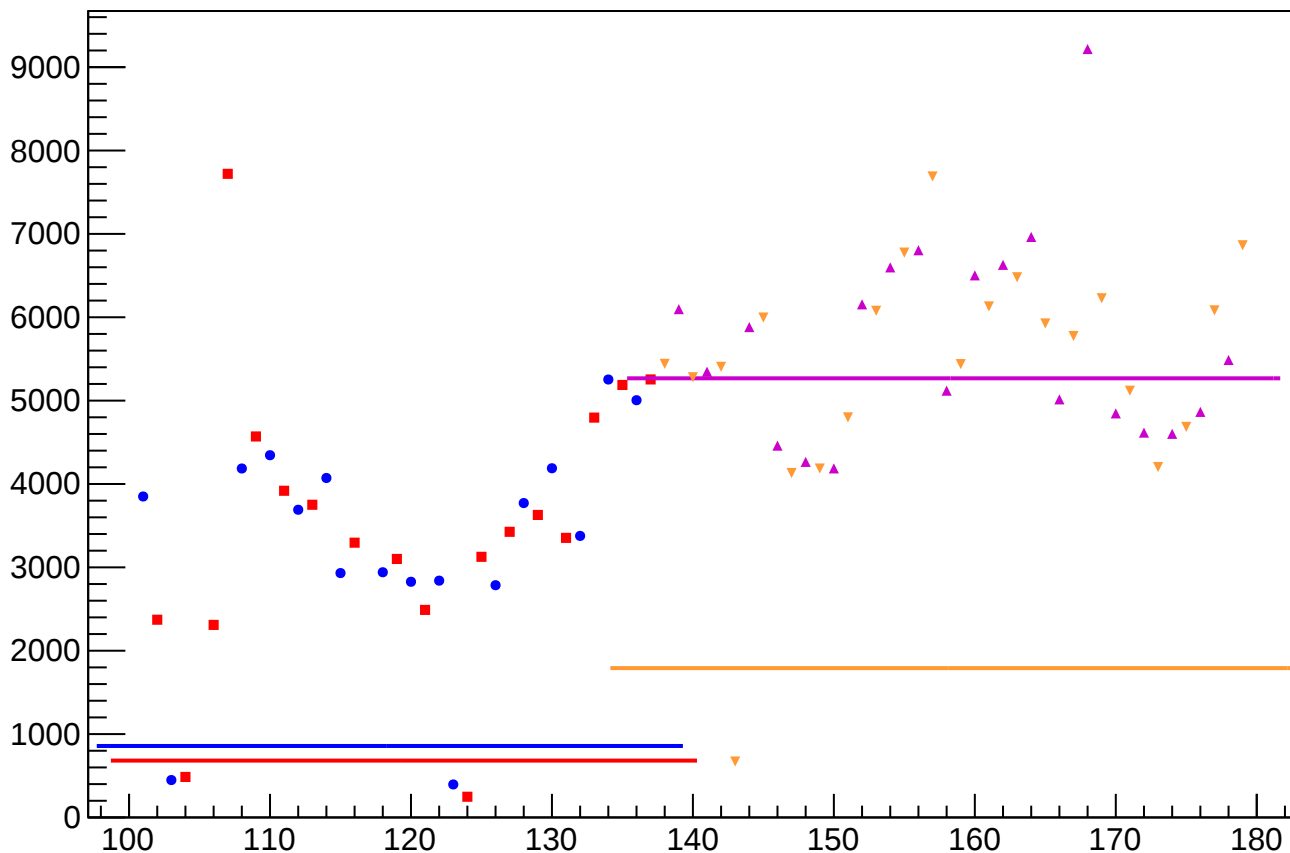
Right: 252.583+/-342.551  $\chi^2/\text{NDF}$ : 36.1/34

In: 357.355+/-496.243  $\chi^2/\text{NDF}$ :30.2/36

Out: -211.178+/-371.478  $\chi^2/\text{NDF}$ :49.5/39

All: -7.002+/-297.385  $\chi^2/\text{NDF}$ : 80.5/76

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



Right In: 857.472 $\pm$ 0.377  $\chi^2$ /NDF: 8175260.6/16

Left Out: 1791.438 $\pm$ 0.472  $\chi^2$ /NDF:18722585.7/21

Right Out: 682.114 $\pm$ 0.316  $\chi^2$ /NDF: 9378570.8/17

Left In: 5267.709 $\pm$ 0.959  $\chi^2$ /NDF:1076895.9/19

Left: 2469.826 $\pm$ 0.424  $\chi^2$ /NDF: 30372586.4/41

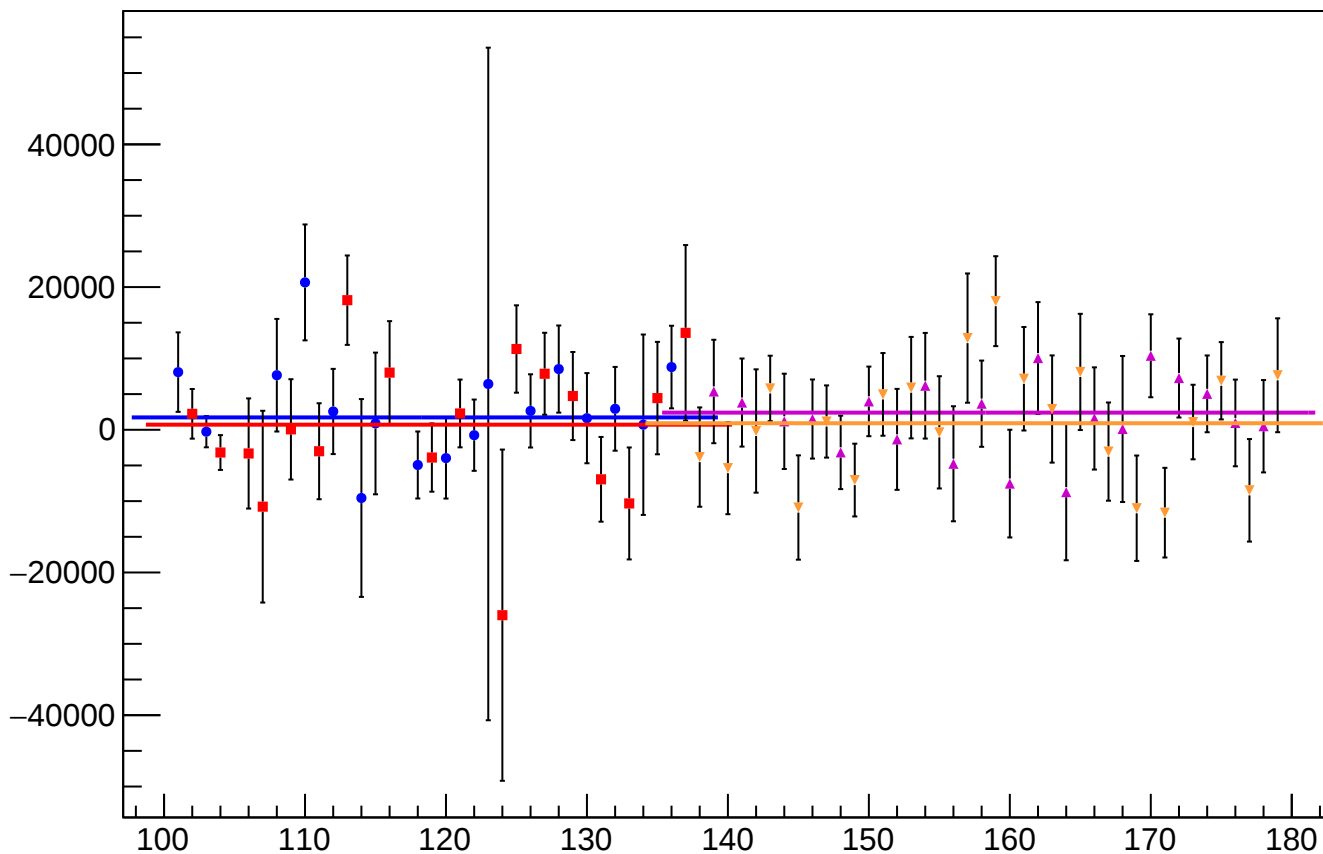
Right: 754.488 $\pm$ 0.242  $\chi^2$ /NDF: 17680867.8/34

In: 1447.781 $\pm$ 0.351  $\chi^2$ /NDF:27565874.6/36

Out: 1025.280 $\pm$ 0.263  $\chi^2$ /NDF:31911697.9/39

All: 1177.012 $\pm$ 0.210  $\chi^2$ /NDF: 60406686.1/79

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



Right In: 1733.273+/-1304.606  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 919.323+/-1377.170  $\chi^2/\text{NDF}$ : 29.9/21

Right Out: 715.502+/-1290.698  $\chi^2/\text{NDF}$ : 25.1/17

Left In: 2405.239+/-1439.434  $\chi^2/\text{NDF}$ : 10.1/19

Left: 1629.449+/-995.090  $\chi^2/\text{NDF}$ : 40.5/41

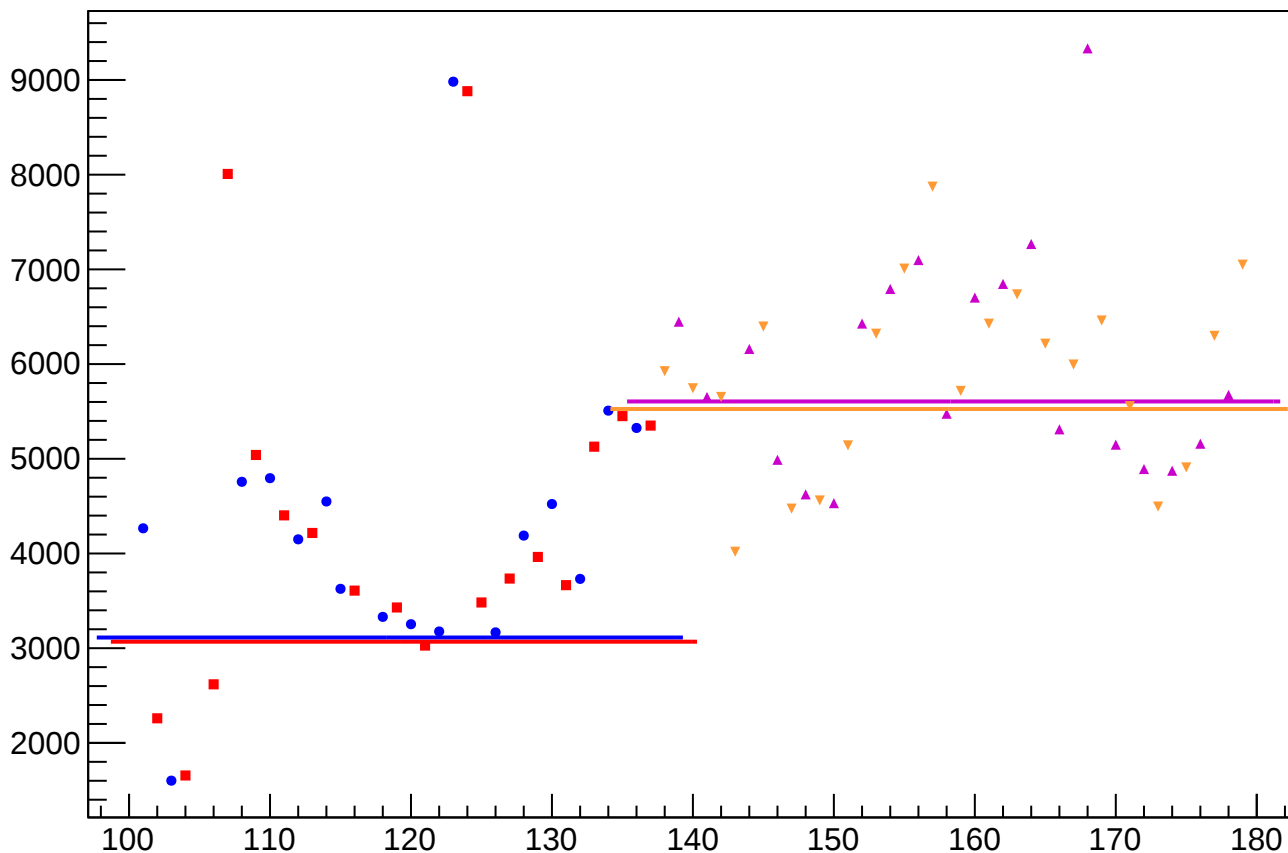
Right: 1218.933+/-917.539  $\chi^2/\text{NDF}$ : 40.3/34

In: 2036.318+/-966.657  $\chi^2/\text{NDF}$ : 25.1/36

Out: 810.813+/-941.748  $\chi^2/\text{NDF}$ : 55.0/39

All: 1407.574+/-674.551  $\chi^2/\text{NDF}$ : 80.9/76

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



Right In: 3112.686+/-0.922  $\chi^2/\text{NDF}$ : 1884511.8/16

Left Out: 5525.876+/-0.974  $\chi^2/\text{NDF}$ : 991389.1/21

Right Out: 3068.634+/-0.899  $\chi^2/\text{NDF}$ : 2001632.3/17

Left In: 5605.400+/-1.018  $\chi^2/\text{NDF}$ : 898566.4/19

Left: 5563.881+/-0.704  $\chi^2/\text{NDF}$ : 1893142.5/41

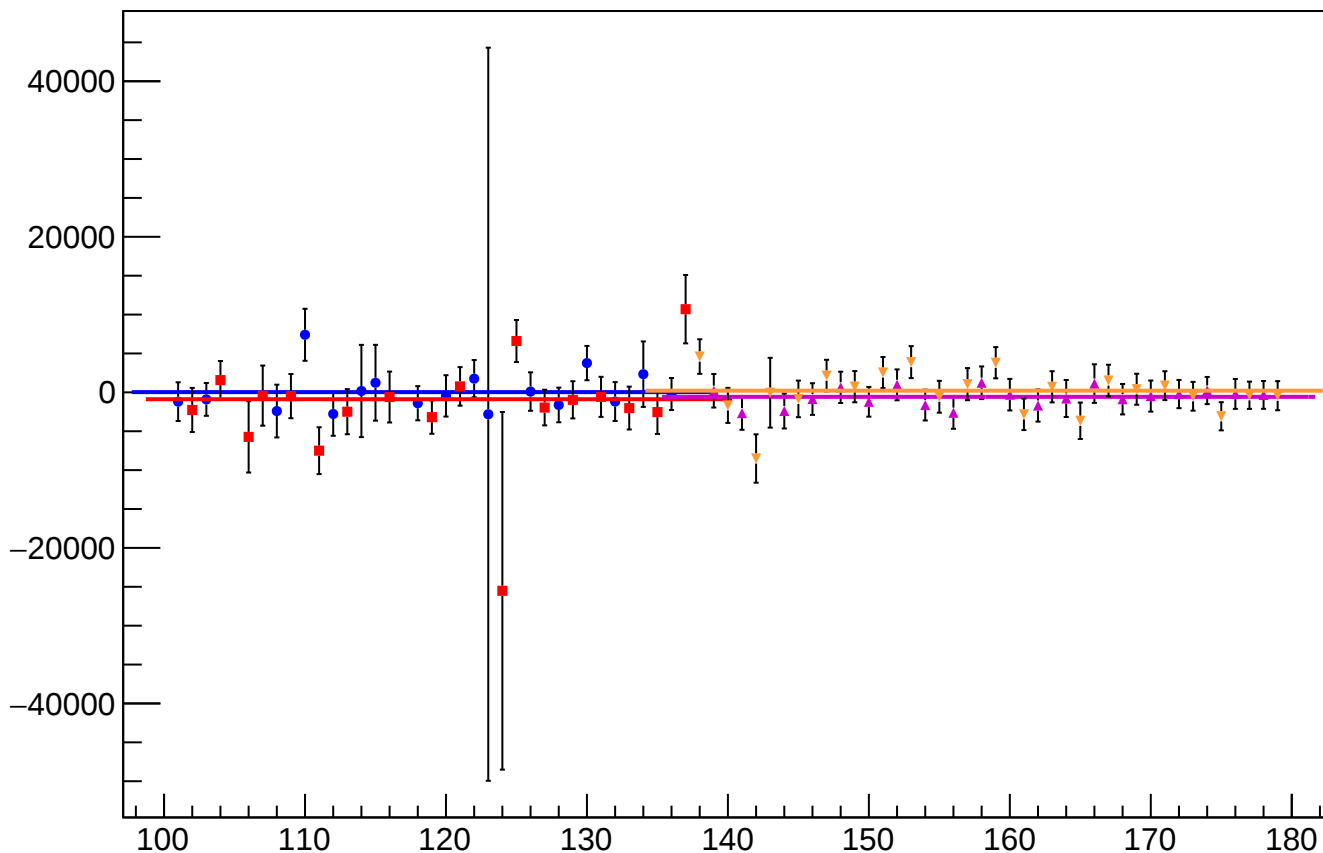
Right: 3090.101+/-0.644  $\chi^2/\text{NDF}$ : 3887313.2/34

In: 4236.853+/-0.684  $\chi^2/\text{NDF}$ : 6075978.1/36

Out: 4199.747+/-0.661  $\chi^2/\text{NDF}$ : 6429300.0/39

All: 4217.670+/-0.475  $\chi^2/\text{NDF}$ : 12506801.6/74

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



Right In:  $29.102 \pm 658.403$   $\chi^2/\text{NDF}$ : 11.8/16

Left Out:  $213.296 \pm 442.987$   $\chi^2/\text{NDF}$ : 31.0/21

Right Out:  $-882.685 \pm 674.623$   $\chi^2/\text{NDF}$ : 25.6/17

Left In:  $-576.290 \pm 451.492$   $\chi^2/\text{NDF}$ : 6.0/19

Left:  $-173.990 \pm 316.203$   $\chi^2/\text{NDF}$ : 38.5/41

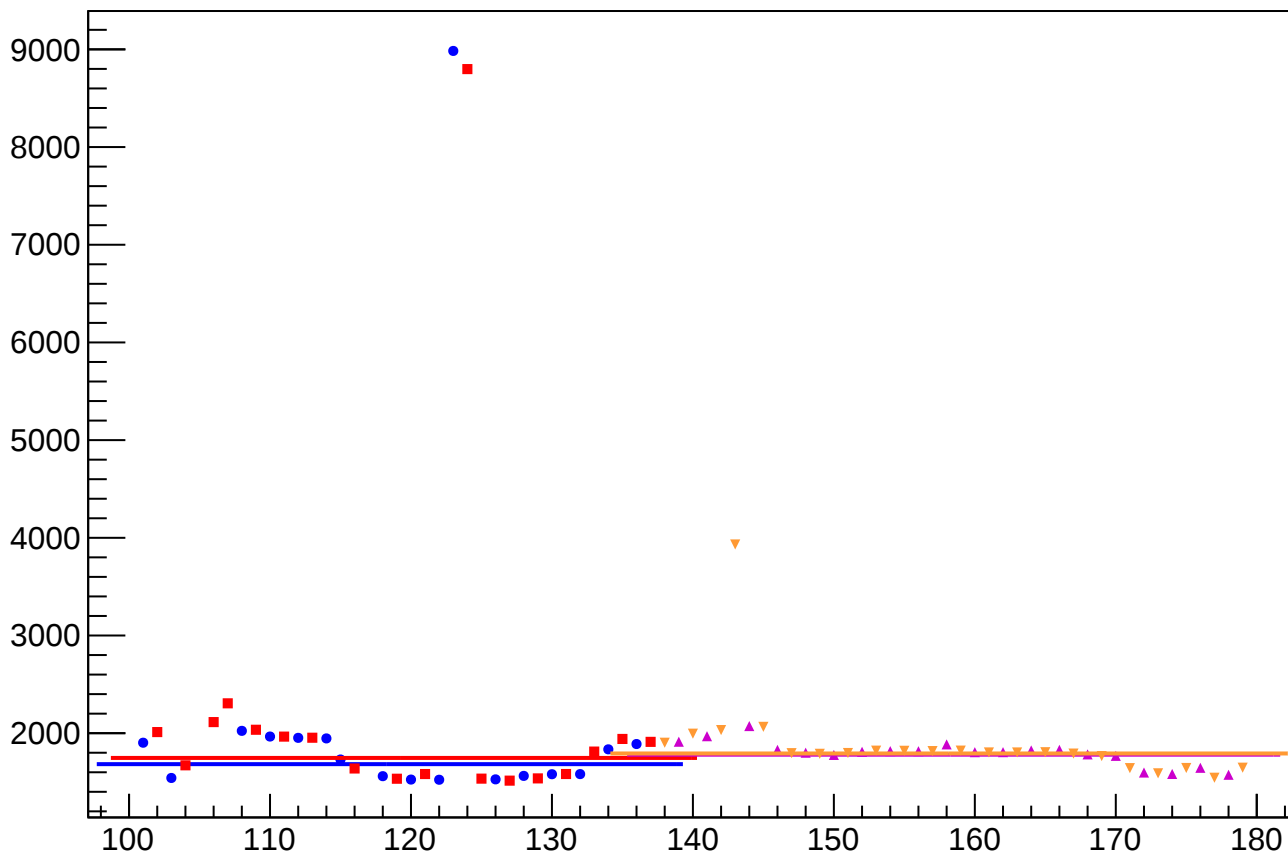
Right:  $-415.699 \pm 471.191$   $\chi^2/\text{NDF}$ : 38.4/34

In:  $-382.663 \pm 372.355$   $\chi^2/\text{NDF}$ : 18.4/36

Out:  $-116.897 \pm 370.292$   $\chi^2/\text{NDF}$ : 58.4/39

All:  $-249.042 \pm 262.562$   $\chi^2/\text{NDF}$ : 77.1/76

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



Right In: 1683.124+/-0.466  $\chi^2/\text{NDF}$ : 195857.2/16

Left Out: 1792.400+/-0.313  $\chi^2/\text{NDF}$ : 619319.6/21

Right Out: 1746.802+/-0.476  $\chi^2/\text{NDF}$ : 406724.0/17

Left In: 1779.796+/-0.319  $\chi^2/\text{NDF}$ : 149477.0/19

Left: 1786.218+/-0.224  $\chi^2/\text{NDF}$ : 769590.7/41

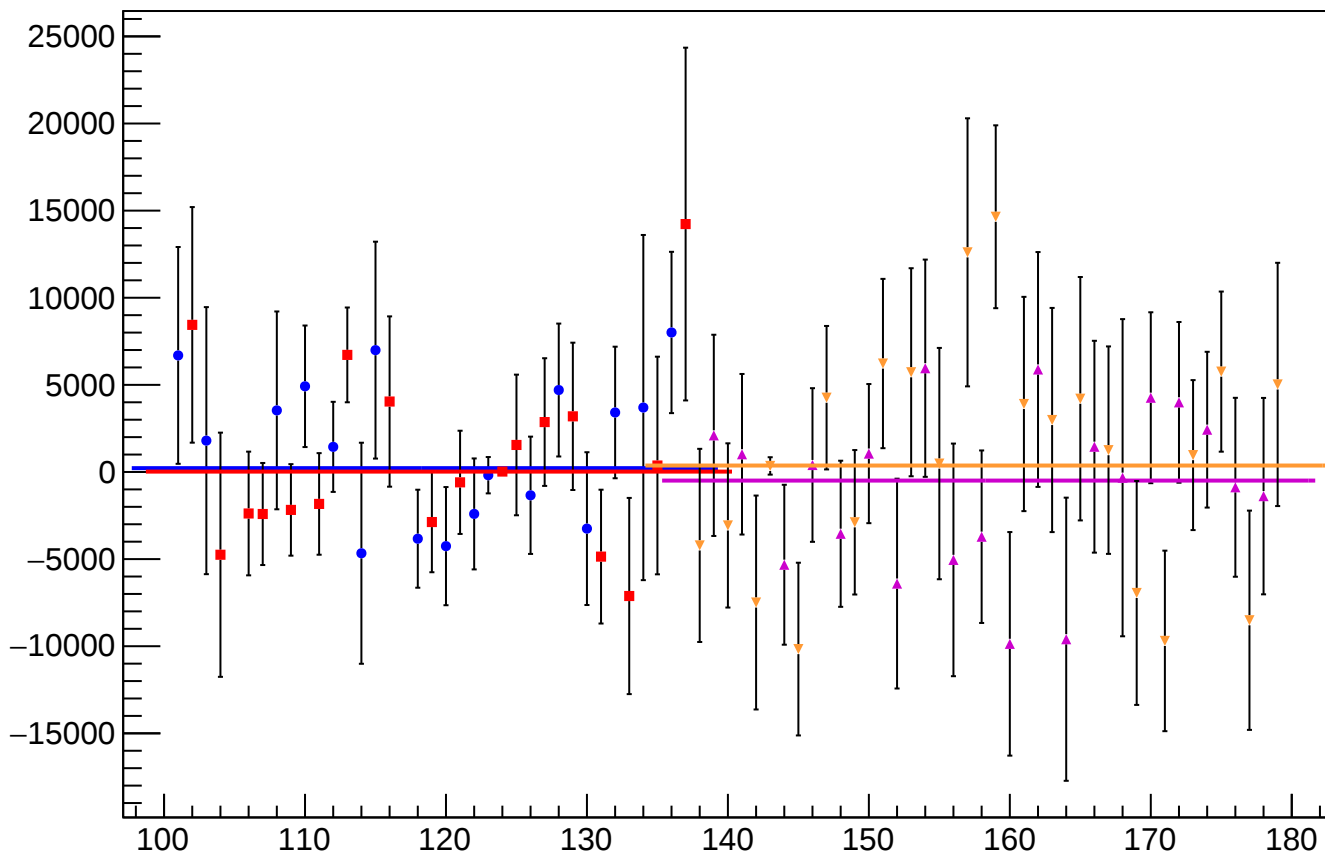
Right: 1714.259+/-0.333  $\chi^2/\text{NDF}$ : 611728.2/34

In: 1748.877+/-0.263  $\chi^2/\text{NDF}$ : 374660.7/36

Out: 1778.620+/-0.262  $\chi^2/\text{NDF}$ : 1032447.4/39

All: 1763.841+/-0.186  $\chi^2/\text{NDF}$ : 1413528.4/76

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



Right In: 219.808 $\pm$ 720.915  $\chi^2$ /NDF: 15.8/16

Left Out: 370.385 $\pm$ 459.911  $\chi^2$ /NDF:30.8/21

Right Out: 21.945 $\pm$ 114.135  $\chi^2$ /NDF: 18.6/17

Left In: -493.542 $\pm$ 1177.883  $\chi^2$ /NDF:11.8/19

Left: 256.098 $\pm$ 428.412  $\chi^2$ /NDF: 43.1/41

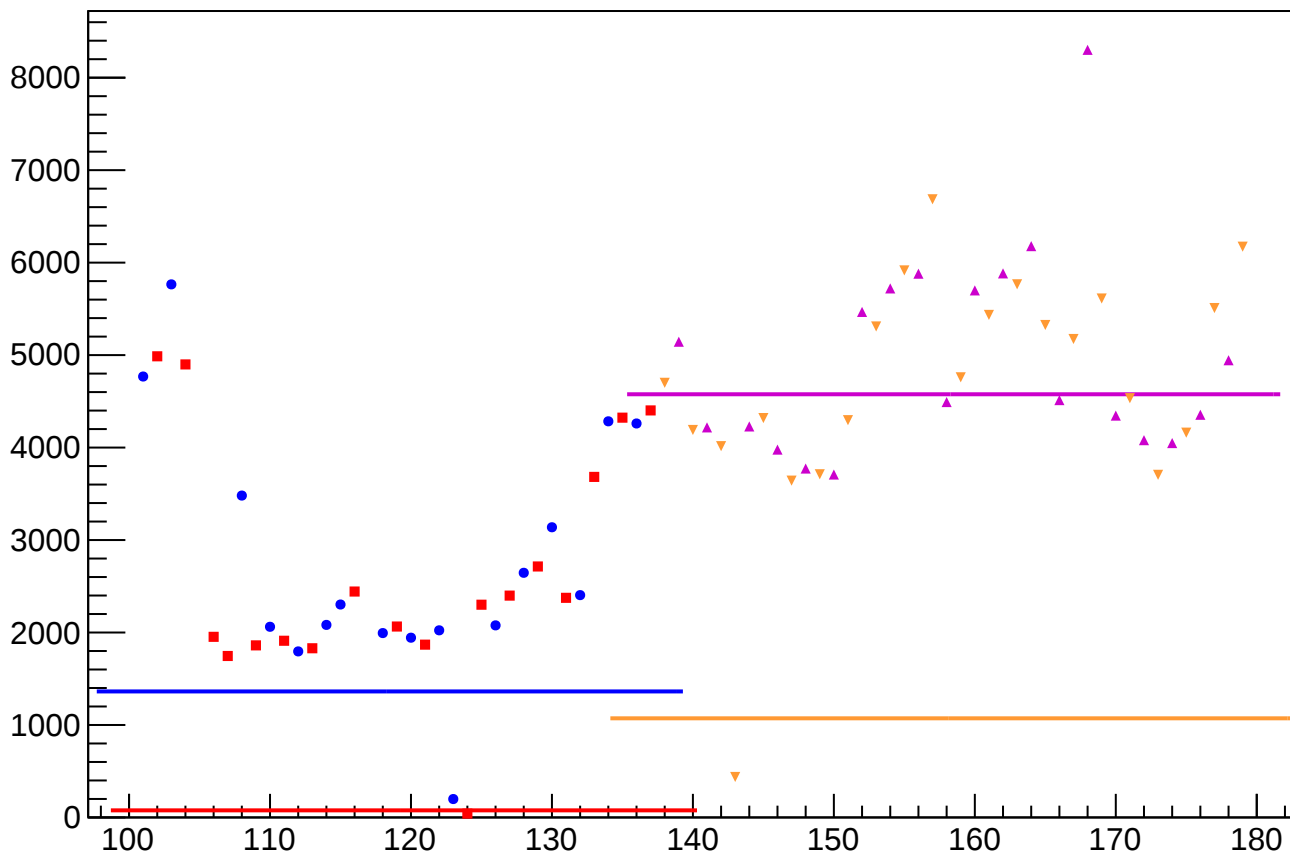
Right: 26.783 $\pm$ 112.731  $\chi^2$ /NDF: 34.5/34

In: 25.411 $\pm$ 614.889  $\chi^2$ /NDF:27.9/36

Out: 42.159 $\pm$ 110.775  $\chi^2$ /NDF:49.9/39

All: 41.633 $\pm$ 109.020  $\chi^2$ /NDF: 77.8/76

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



Right In: 1362.842 $\pm$ 0.510  $\chi^2$ /NDF: 6235846.3/16

Left Out: 1072.096 $\pm$ 0.325  $\chi^2$ /NDF: 22241847.9/21

Right Out: 76.832 $\pm$ 0.081  $\chi^2$ /NDF: 13114372.5/17

Left In: 4576.474 $\pm$ 0.833  $\chi^2$ /NDF: 1052886.6/19

Left: 1535.681 $\pm$ 0.303  $\chi^2$ /NDF: 38655883.4/41

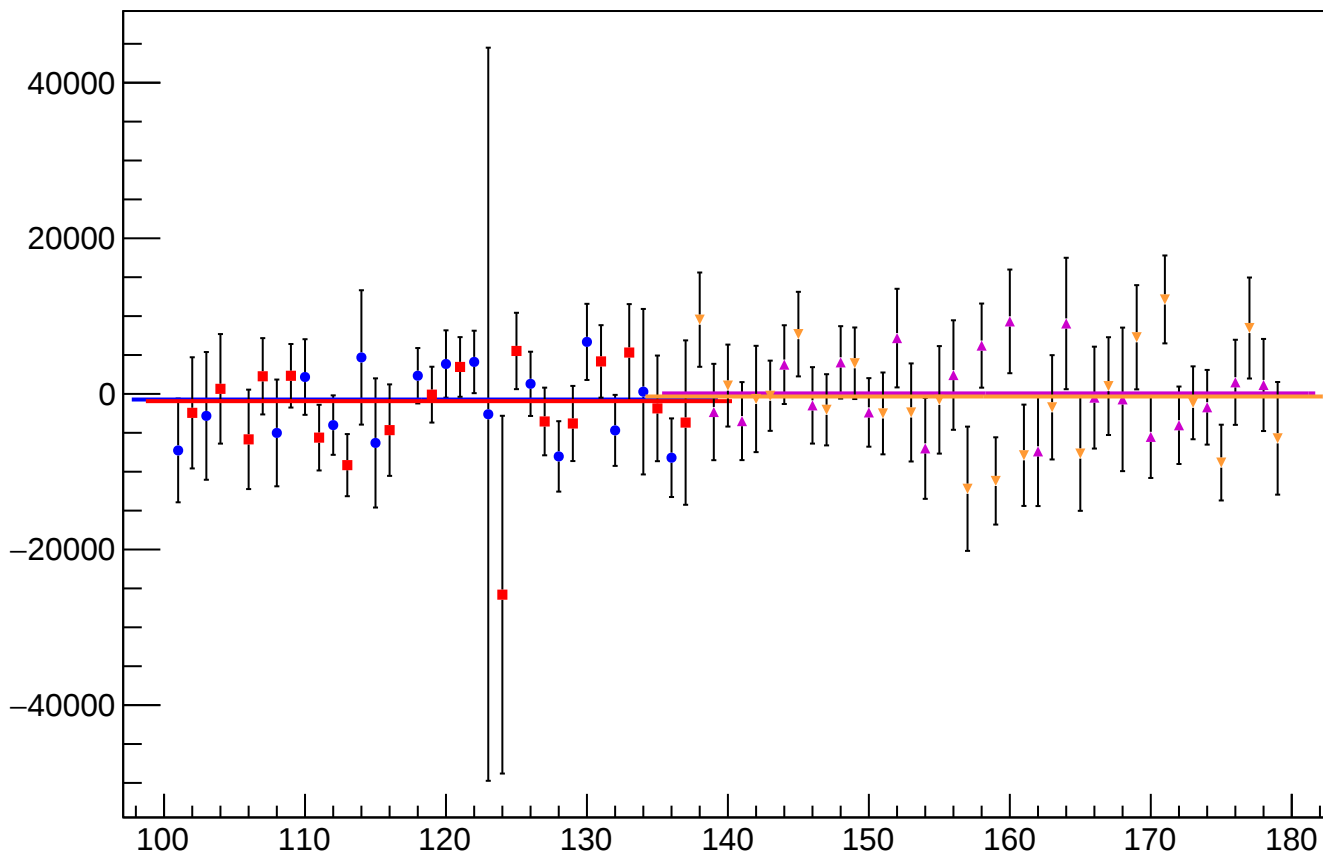
Right: 108.278 $\pm$ 0.080  $\chi^2$ /NDF: 25558892.3/34

In: 2238.602 $\pm$ 0.435  $\chi^2$ /NDF: 18119090.6/36

Out: 134.572 $\pm$ 0.078  $\chi^2$ /NDF: 44178963.4/39

All: 200.713 $\pm$ 0.077  $\chi^2$ /NDF: 84979430.1/76

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



Right In: -721.483+/-1252.519  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -332.084+/-1225.217  $\chi^2/\text{NDF}$ : 26.2/21

Right Out: -931.712+/-1194.458  $\chi^2/\text{NDF}$ : 14.9/17

Left In: 64.498+/-1269.457  $\chi^2/\text{NDF}$ : 12.4/19

Left: -140.824+/-881.585  $\chi^2/\text{NDF}$ : 38.7/41

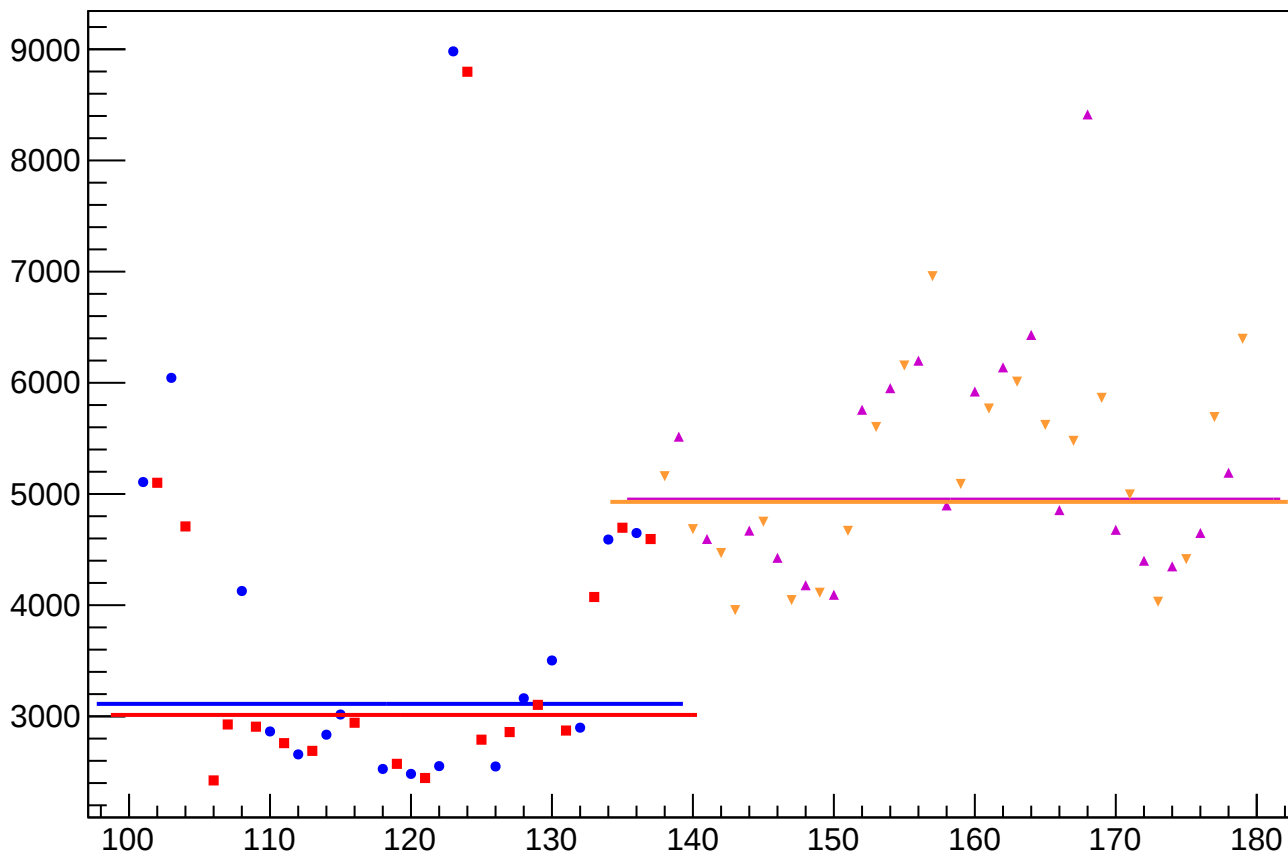
Right: -831.583+/-864.407  $\chi^2/\text{NDF}$ : 29.7/34

In: -333.771+/-891.593  $\chi^2/\text{NDF}$ : 27.4/36

Out: -639.520+/-855.277  $\chi^2/\text{NDF}$ : 41.2/39

All: -492.999+/-617.211  $\chi^2/\text{NDF}$ : 68.6/76

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



Right In: 3112.232 $\pm$ 0.886  $\chi^2$ /NDF: 958497.7/16

Left Out: 4929.125 $\pm$ 0.866  $\chi^2$ /NDF: 833923.7/21

Right Out: 3012.763 $\pm$ 0.834  $\chi^2$ /NDF: 774261.7/17

Left In: 4949.517 $\pm$ 0.898  $\chi^2$ /NDF: 843434.5/19

Left: 4938.959 $\pm$ 0.623  $\chi^2$ /NDF: 1677625.4/41

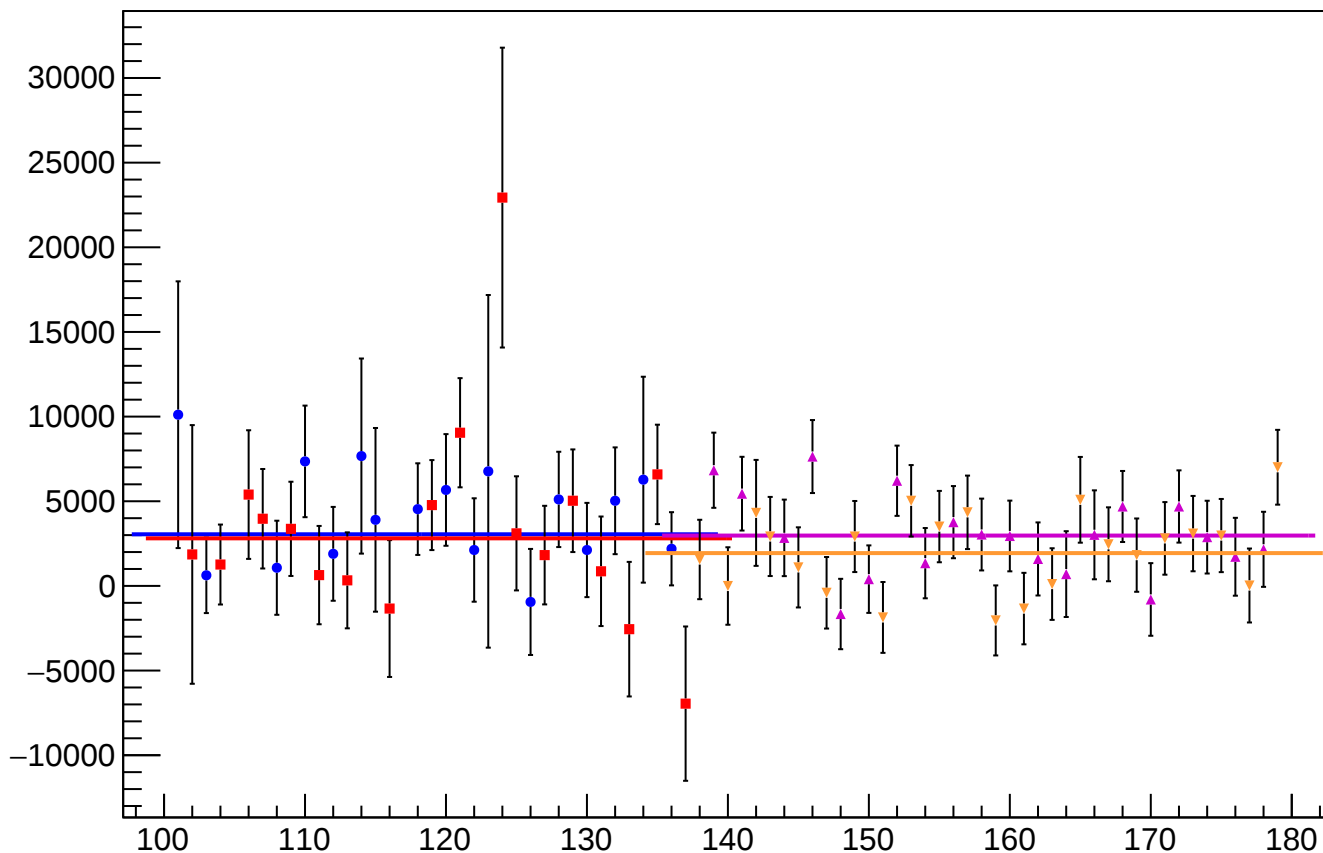
Right: 3059.514 $\pm$ 0.607  $\chi^2$ /NDF: 1739444.6/34

In: 4018.531 $\pm$ 0.630  $\chi^2$ /NDF: 3924754.1/36

Out: 3934.524 $\pm$ 0.601  $\chi^2$ /NDF: 4147578.7/39

All: 3974.509 $\pm$ 0.435  $\chi^2$ /NDF: 8081637.1/76

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



Right In: 3049.083 $\pm$ 772.320  $\chi^2/\text{NDF}$ : 9.3/16

Left Out: 1937.918 $\pm$ 472.091  $\chi^2/\text{NDF}$ : 25.5/21

Right Out: 2809.116 $\pm$ 766.213  $\chi^2/\text{NDF}$ : 22.0/17

Left In: 2973.297 $\pm$ 486.048  $\chi^2/\text{NDF}$ : 24.9/19

Left: 2440.529 $\pm$ 338.645  $\chi^2/\text{NDF}$ : 52.7/41

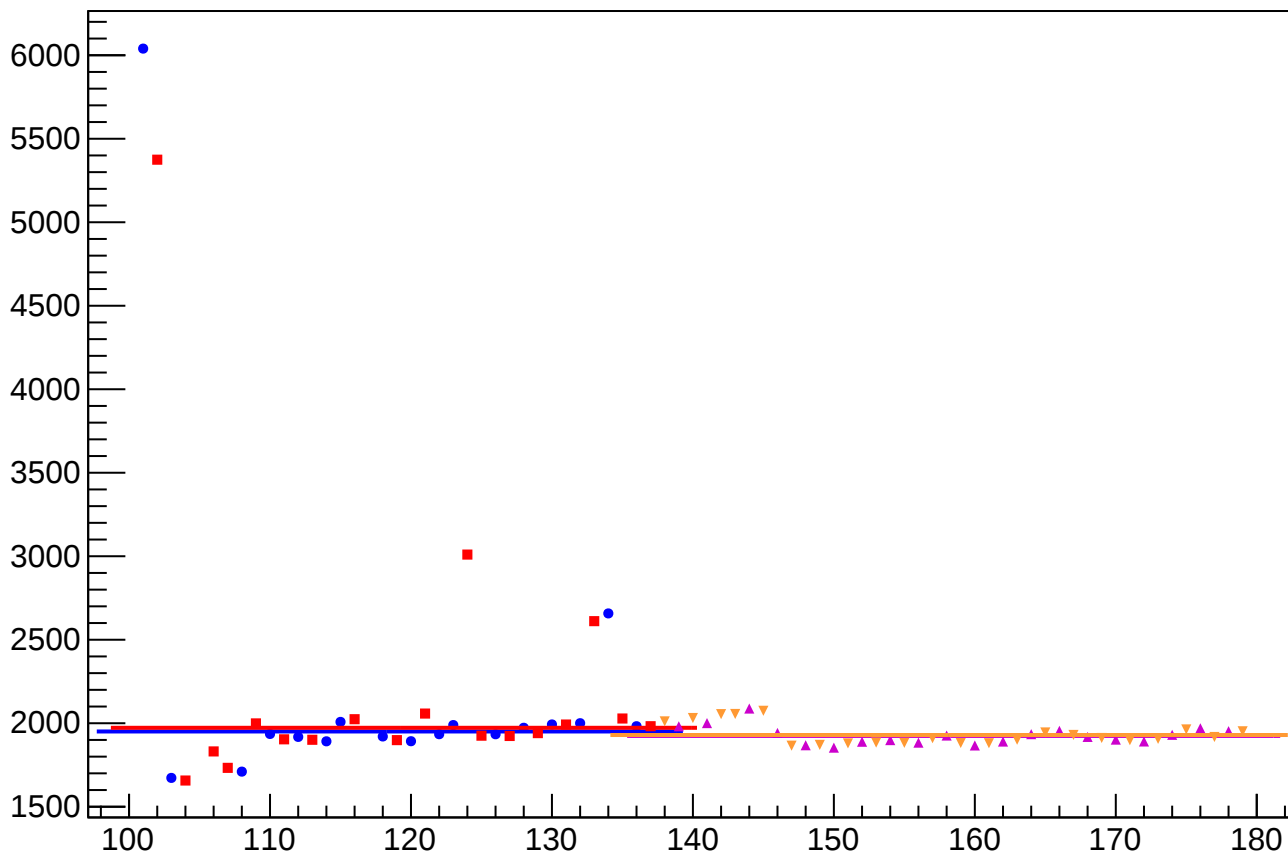
Right: 2928.147 $\pm$ 543.941  $\chi^2/\text{NDF}$ : 31.4/34

In: 2994.798 $\pm$ 411.364  $\chi^2/\text{NDF}$ : 34.2/36

Out: 2177.640 $\pm$ 401.925  $\chi^2/\text{NDF}$ : 48.4/39

All: 2576.736 $\pm$ 287.483  $\chi^2/\text{NDF}$ : 84.6/76

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



Right In: 1950.692+/-0.546  $\chi^2/\text{NDF}$ : 615165.3/16

Left Out: 1929.520+/-0.334  $\chi^2/\text{NDF}$ : 33631.3/21

Right Out: 1972.726+/-0.541  $\chi^2/\text{NDF}$ : 535670.1/17

Left In: 1923.868+/-0.344  $\chi^2/\text{NDF}$ : 24145.4/19

Left: 1926.776+/-0.239  $\chi^2/\text{NDF}$ : 57915.8/41

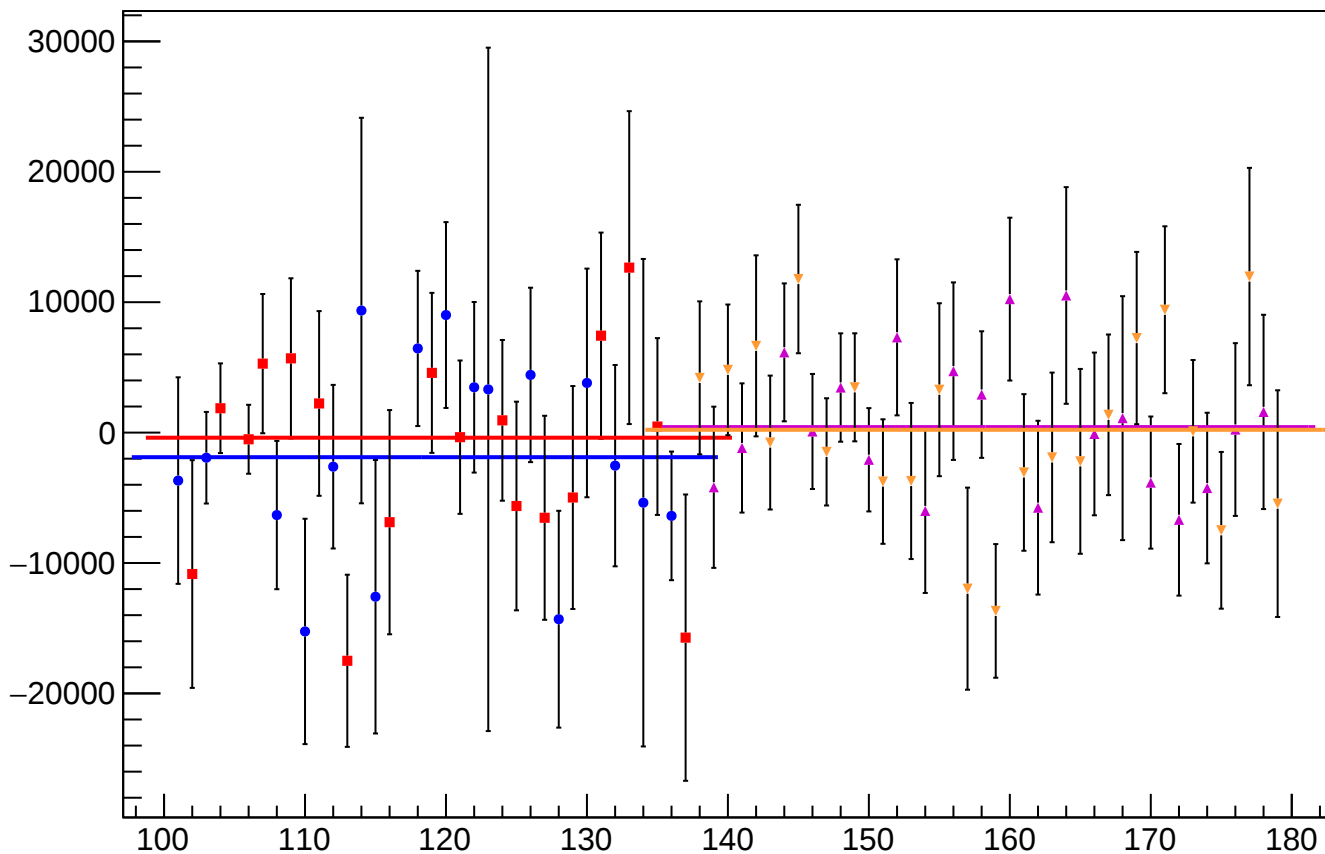
Right: 1961.803+/-0.385  $\chi^2/\text{NDF}$ : 1151656.3/34

In: 1931.478+/-0.291  $\chi^2/\text{NDF}$ : 641038.7/36

Out: 1941.419+/-0.284  $\chi^2/\text{NDF}$ : 573914.9/39

All: 1936.565+/-0.203  $\chi^2/\text{NDF}$ : 1215551.4/76

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



Right In: -1885.285 $\pm$ 1657.979  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 215.354 $\pm$ 1231.951  $\chi^2/\text{NDF}$ : 26.1/21

Right Out: -391.453 $\pm$ 1361.685  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 421.467 $\pm$ 1257.778  $\chi^2/\text{NDF}$ : 13.5/19

Left: 316.273 $\pm$ 880.110  $\chi^2/\text{NDF}$ : 39.6/41

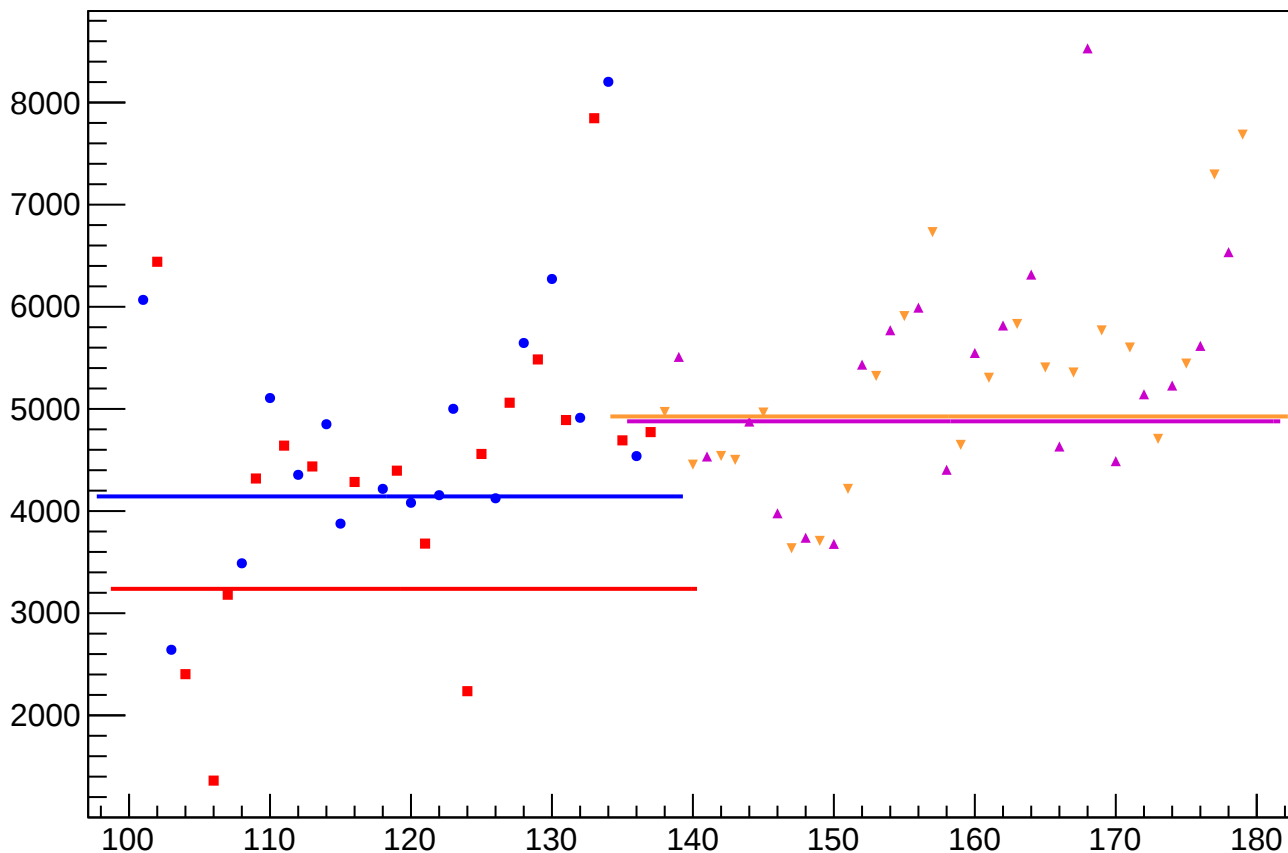
Right: -993.190 $\pm$ 1052.280  $\chi^2/\text{NDF}$ : 32.2/34

In: -421.150 $\pm$ 1002.060  $\chi^2/\text{NDF}$ : 28.9/36

Out: -57.773 $\pm$ 913.552  $\chi^2/\text{NDF}$ : 43.8/39

All: -222.708 $\pm$ 675.105  $\chi^2/\text{NDF}$ : 72.7/76

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



Right In: 4143.478+/-1.172  $\chi^2/\text{NDF}$ : 855972.6/16

Left Out: 4926.426+/-0.871  $\chi^2/\text{NDF}$ : 1120649.8/21

Right Out: 3238.590+/-0.963  $\chi^2/\text{NDF}$ : 2581960.1/17

Left In: 4878.667+/-0.889  $\chi^2/\text{NDF}$ : 1155188.2/19

Left: 4903.042+/-0.622  $\chi^2/\text{NDF}$ : 2277309.7/41

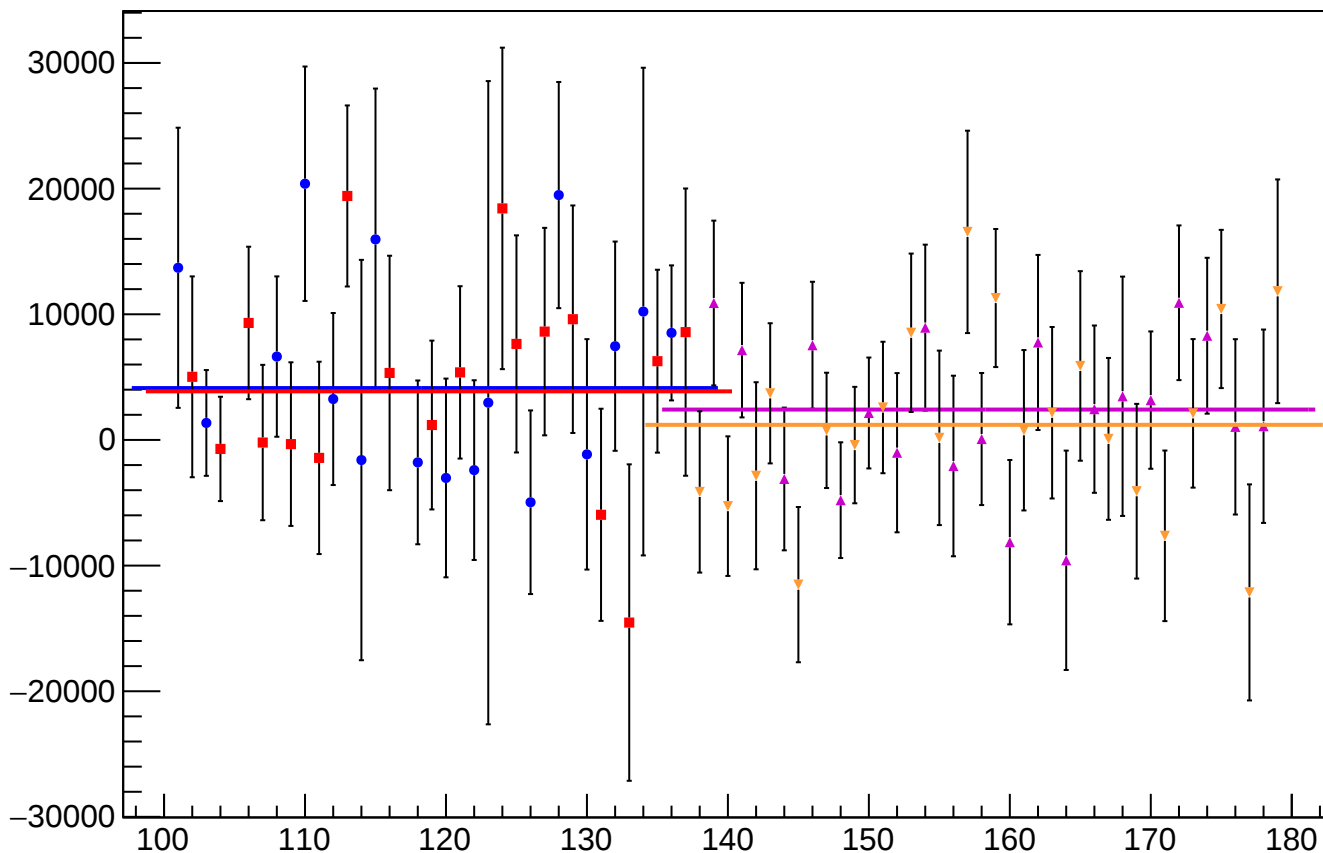
Right: 3603.092+/-0.744  $\chi^2/\text{NDF}$ : 3793704.0/34

In: 4610.115+/-0.709  $\chi^2/\text{NDF}$ : 2260763.6/36

Out: 4166.724+/-0.646  $\chi^2/\text{NDF}$ : 5392338.6/39

All: 4367.977+/-0.477  $\chi^2/\text{NDF}$ : 7866944.0/76

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



Right In: 4126.632 $\pm$ 1863.062  $\chi^2$ /NDF: 13.7/16

Left Out: 1202.496 $\pm$ 1326.495  $\chi^2$ /NDF:24.1/21

Right Out: 3866.479 $\pm$ 1727.484  $\chi^2$ /NDF: 14.3/17

Left In: 2416.601 $\pm$ 1355.479  $\chi^2$ /NDF:16.7/19

Left: 1796.429 $\pm$ 948.055  $\chi^2$ /NDF: 41.2/41

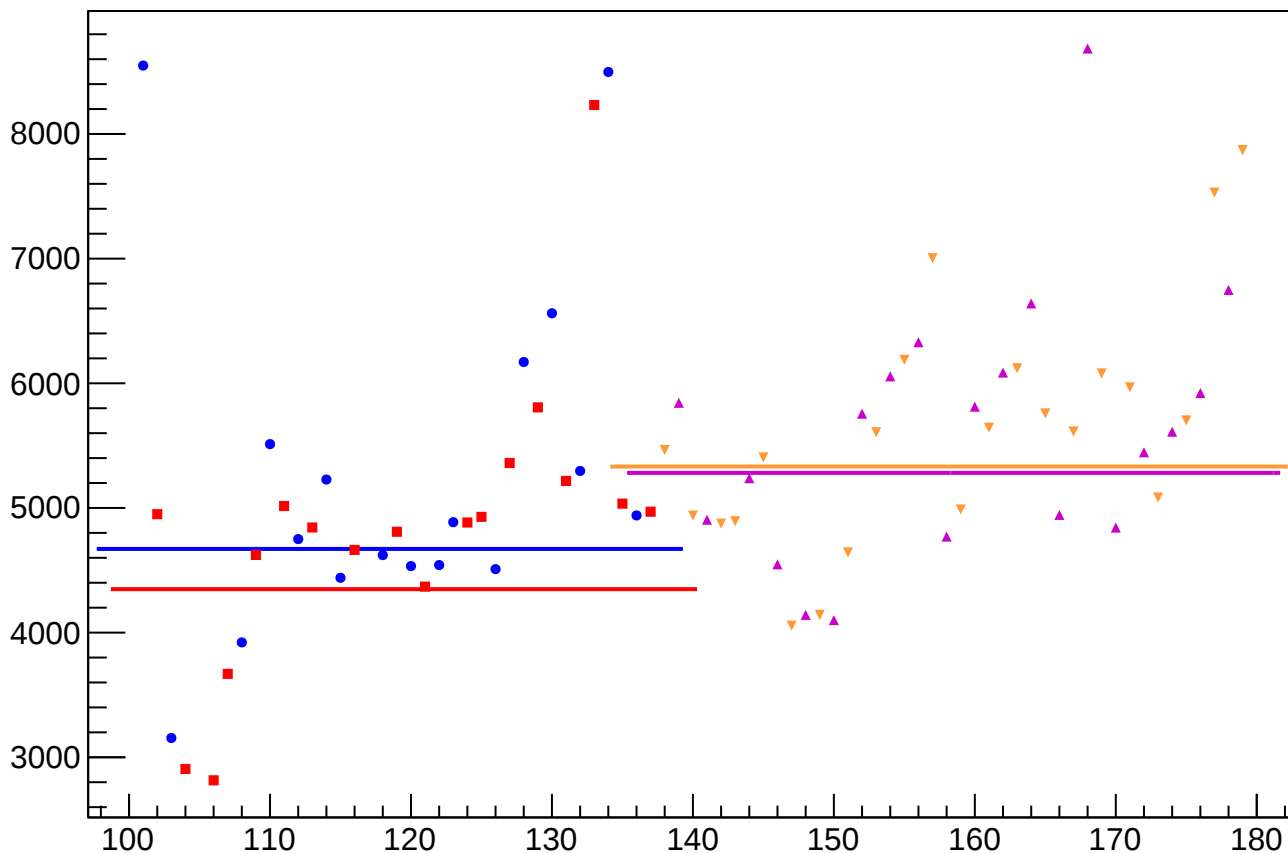
Right: 3986.746 $\pm$ 1266.737  $\chi^2$ /NDF: 27.9/34

In: 3008.479 $\pm$ 1096.078  $\chi^2$ /NDF:31.0/36

Out: 2190.633 $\pm$ 1052.100  $\chi^2$ /NDF:39.8/39

All: 2582.820 $\pm$ 759.018  $\chi^2$ /NDF: 71.1/76

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



Right In: 4671.319+/-1.317  $\chi^2/\text{NDF}$ : 786112.0/16

Left Out: 5332.273+/-0.938  $\chi^2/\text{NDF}$ : 866636.8/21

Right Out: 4348.716+/-1.214  $\chi^2/\text{NDF}$ : 792425.3/17

Left In: 5281.373+/-0.958  $\chi^2/\text{NDF}$ : 891219.6/19

Left: 5307.373+/-0.670  $\chi^2/\text{NDF}$ : 1759296.9/41

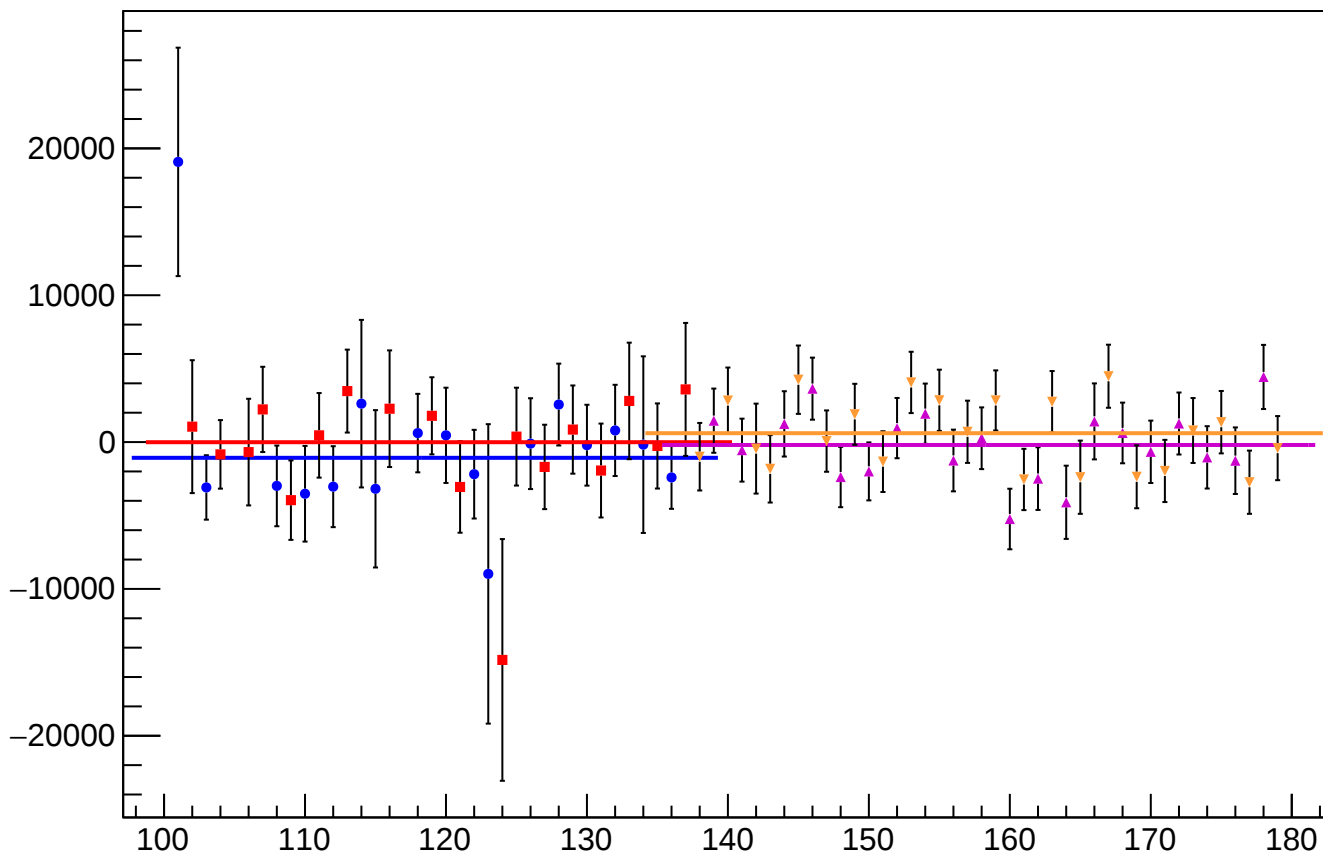
Right: 4496.923+/-0.893  $\chi^2/\text{NDF}$ : 1610954.9/34

In: 5070.221+/-0.775  $\chi^2/\text{NDF}$ : 1817551.3/36

Out: 4964.779+/-0.742  $\chi^2/\text{NDF}$ : 2069898.6/39

All: 5015.228+/-0.536  $\chi^2/\text{NDF}$ : 3897102.9/76

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



Right In:  $-1071.254 \pm 762.970$   $\chi^2/\text{NDF}$ : 13.7/16

Left Out:  $604.840 \pm 465.653$   $\chi^2/\text{NDF}$ : 25.7/21

Right Out:  $-8.910 \pm 748.092$   $\chi^2/\text{NDF}$ : 11.4/17

Left In:  $-197.699 \pm 479.666$   $\chi^2/\text{NDF}$ : 23.5/19

Left:  $215.464 \pm 334.111$   $\chi^2/\text{NDF}$ : 50.7/41

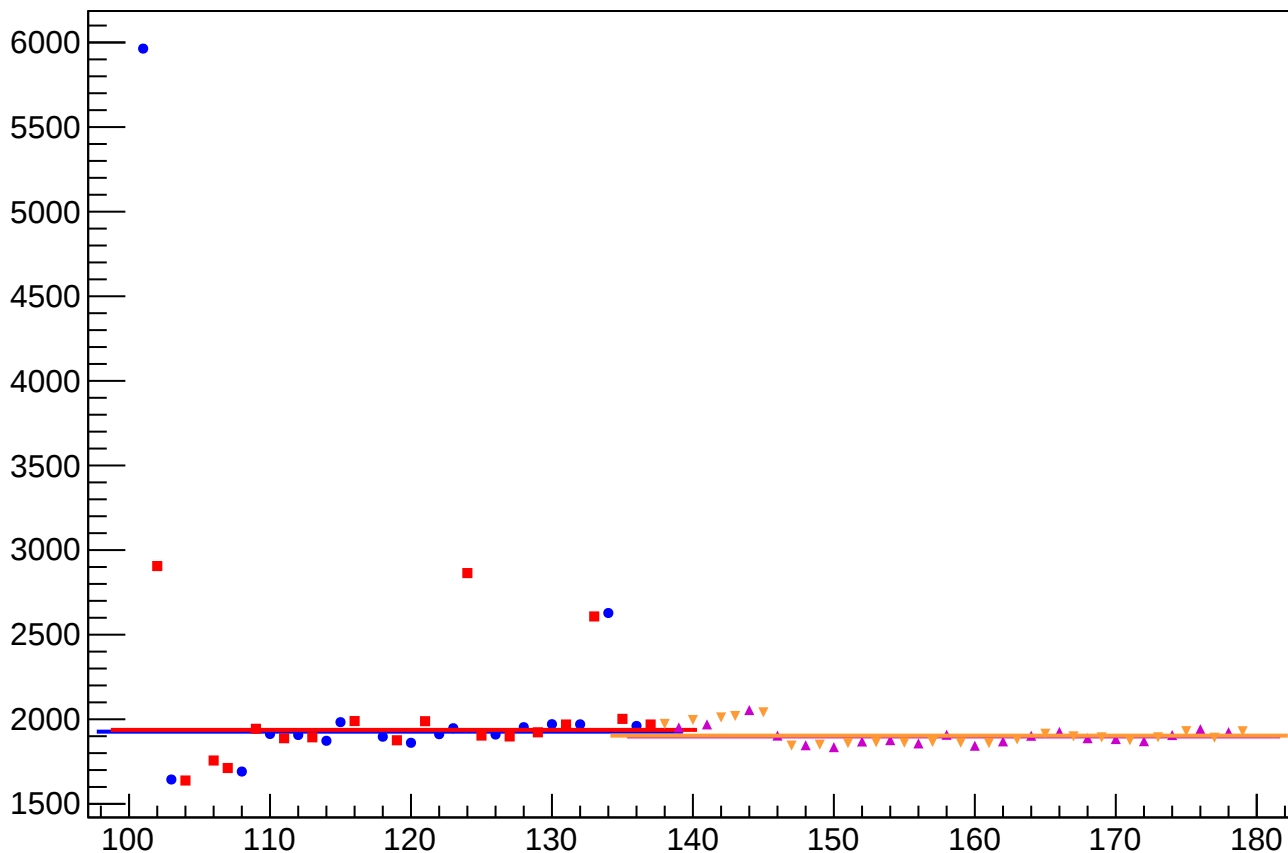
Right:  $-529.623 \pm 534.164$   $\chi^2/\text{NDF}$ : 26.1/34

In:  $-445.158 \pm 406.082$   $\chi^2/\text{NDF}$ : 38.1/36

Out:  $433.448 \pm 395.325$   $\chi^2/\text{NDF}$ : 37.6/39

All:  $5.937 \pm 283.264$   $\chi^2/\text{NDF}$ : 78.2/76

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



Right In: 1926.890+/-0.540  $\chi^2/\text{NDF}$ : 617116.3/16

Left Out: 1903.404+/-0.329  $\chi^2/\text{NDF}$ : 28869.3/21

Right Out: 1937.280+/-0.529  $\chi^2/\text{NDF}$ : 229079.5/17

Left In: 1898.726+/-0.339  $\chi^2/\text{NDF}$ : 21583.9/19

Left: 1901.134+/-0.236  $\chi^2/\text{NDF}$ : 50551.1/41

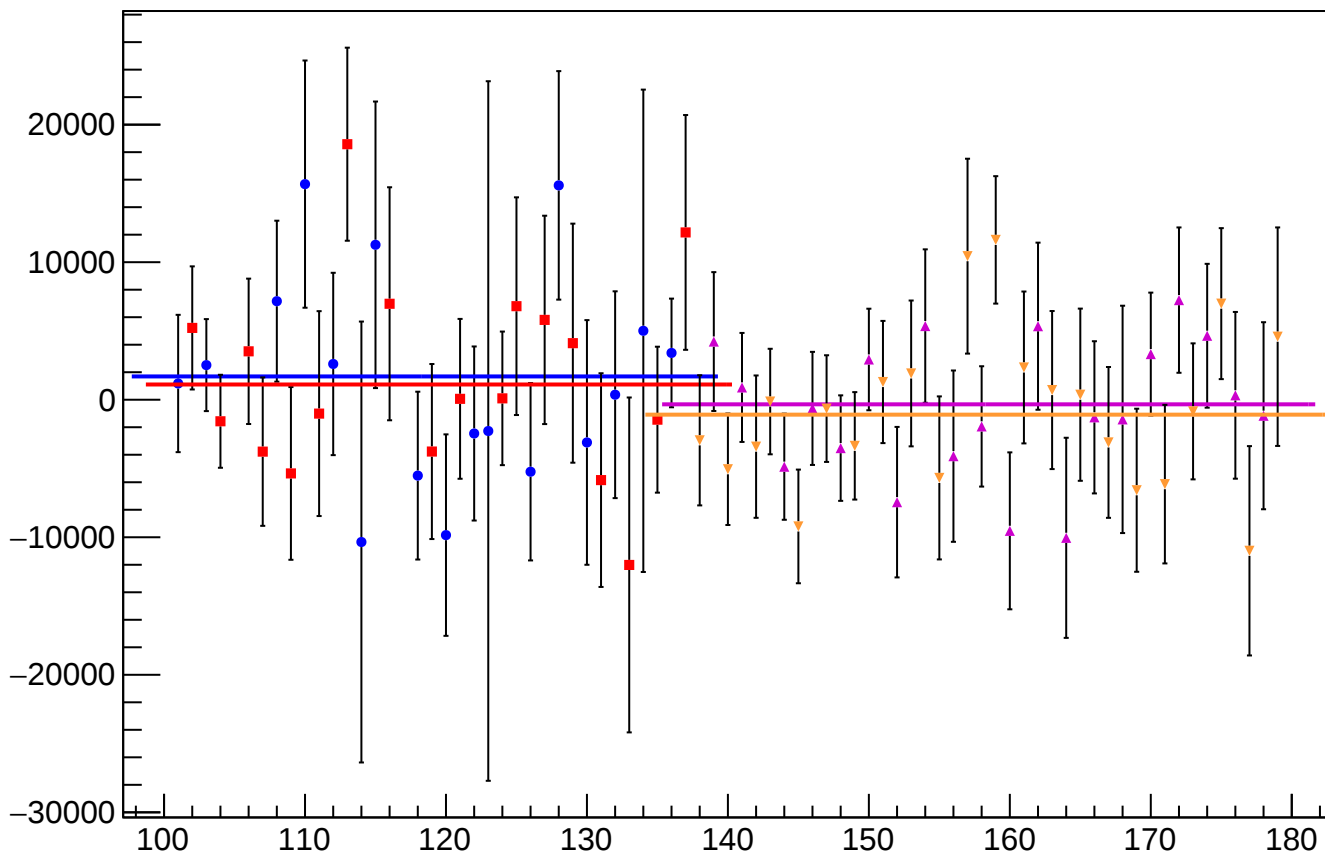
Right: 1932.191+/-0.378  $\chi^2/\text{NDF}$ : 846384.9/34

In: 1906.705+/-0.287  $\chi^2/\text{NDF}$ : 640653.4/36

Out: 1912.874+/-0.279  $\chi^2/\text{NDF}$ : 260907.9/39

All: 1909.873+/-0.200  $\chi^2/\text{NDF}$ : 901798.3/76

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



Right In: 1693.966 $\pm$ 1551.941  $\chi^2/\text{NDF}$ : 13.6/16

Left Out: -1085.087 $\pm$ 1071.977  $\chi^2/\text{NDF}$ : 23.6/21

Right Out: 1107.921 $\pm$ 1412.697  $\chi^2/\text{NDF}$ : 15.9/17

Left In: -334.213 $\pm$ 1111.468  $\chi^2/\text{NDF}$ : 16.0/19

Left: -723.226 $\pm$ 771.586  $\chi^2/\text{NDF}$ : 39.8/41

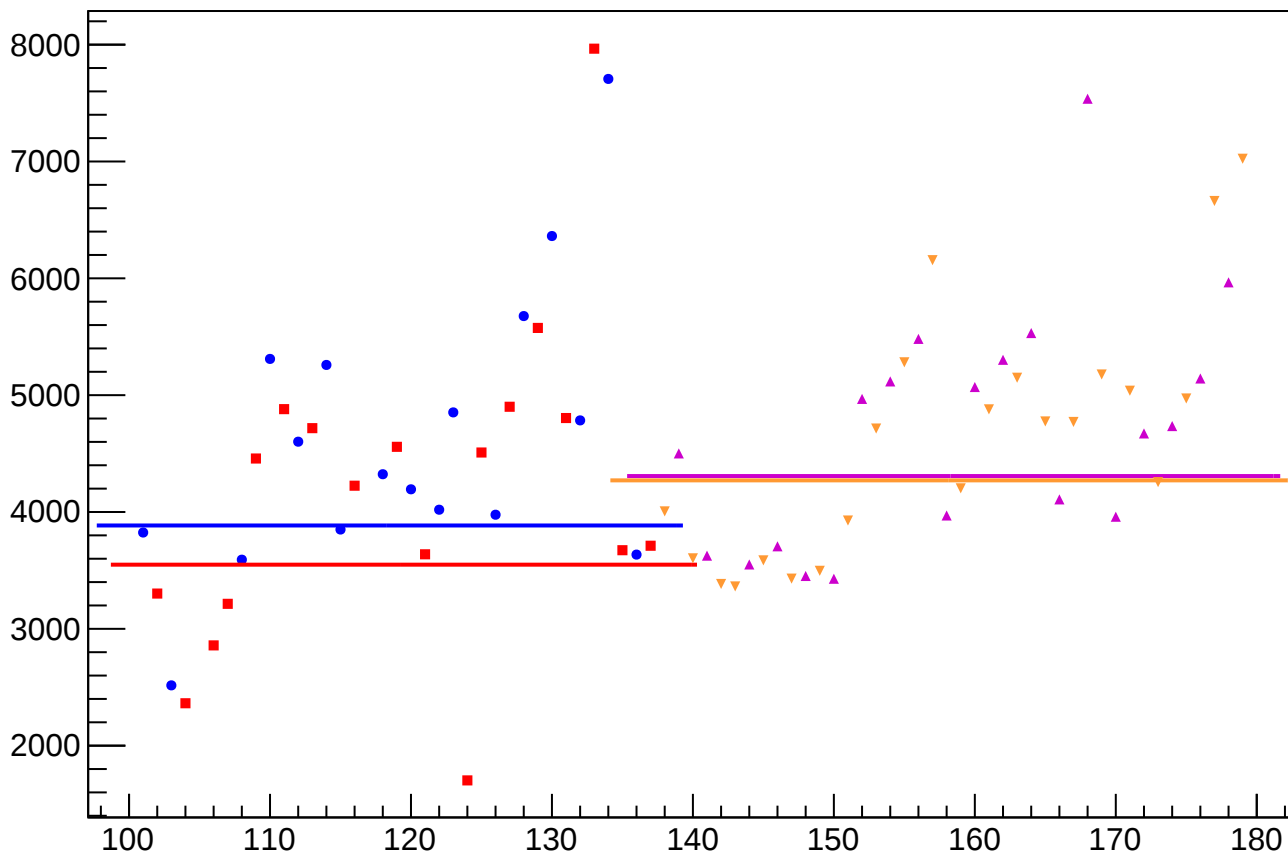
Right: 1373.479 $\pm$ 1044.694  $\chi^2/\text{NDF}$ : 29.6/34

In: 353.387 $\pm$ 903.629  $\chi^2/\text{NDF}$ : 30.7/36

Out: -283.757 $\pm$ 853.954  $\chi^2/\text{NDF}$ : 41.0/39

All: 16.822 $\pm$ 620.655  $\chi^2/\text{NDF}$ : 72.0/76

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



Right In: 3884.603 $\pm$ 1.097  $\chi^2$ /NDF: 826563.8/16

Left Out: 4270.738 $\pm$ 0.758  $\chi^2$ /NDF:1337789.4/21

Right Out: 3549.133 $\pm$ 0.999  $\chi^2$ /NDF: 1326947.7/17

Left In: 4307.733 $\pm$ 0.786  $\chi^2$ /NDF:1194688.2/19

Left: 4288.567 $\pm$ 0.546  $\chi^2$ /NDF: 2533625.6/41

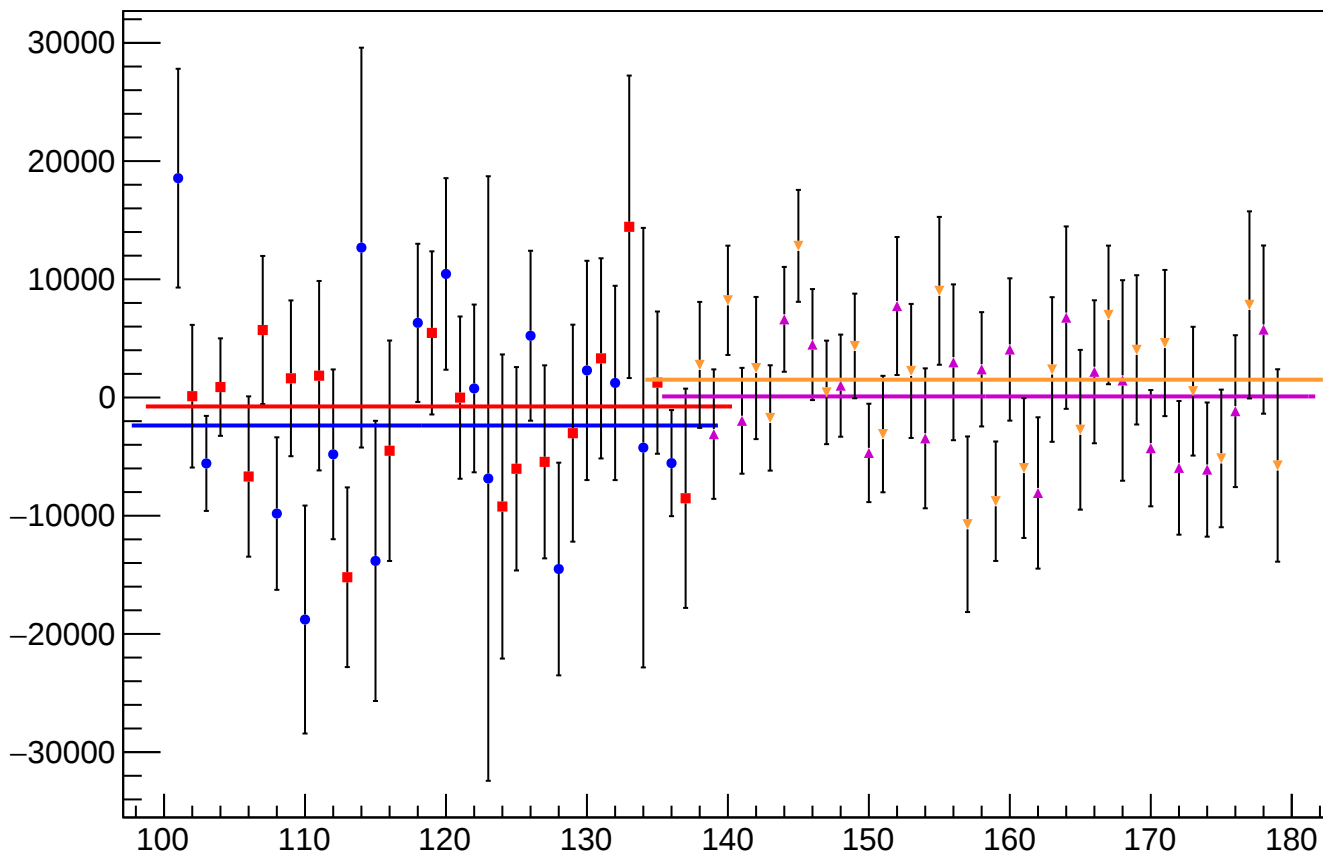
Right: 3701.146 $\pm$ 0.739  $\chi^2$ /NDF: 2204616.7/34

In: 4164.282 $\pm$ 0.639  $\chi^2$ /NDF:2119520.4/36

Out: 4007.062 $\pm$ 0.604  $\chi^2$ /NDF:2995890.6/39

All: 4081.232 $\pm$ 0.439  $\chi^2$ /NDF: 5147392.5/76

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



Right In: -2367.526 $\pm$ 1801.942  $\chi^2$ /NDF: 20.1/16

Left Out: 1509.055 $\pm$ 1182.790  $\chi^2$ /NDF:24.2/21

Right Out: -755.757 $\pm$ 1693.103  $\chi^2$ /NDF: 10.5/17

Left In: 91.720 $\pm$ 1219.806  $\chi^2$ /NDF:14.2/19

Left: 822.219 $\pm$ 849.143  $\chi^2$ /NDF: 39.0/41

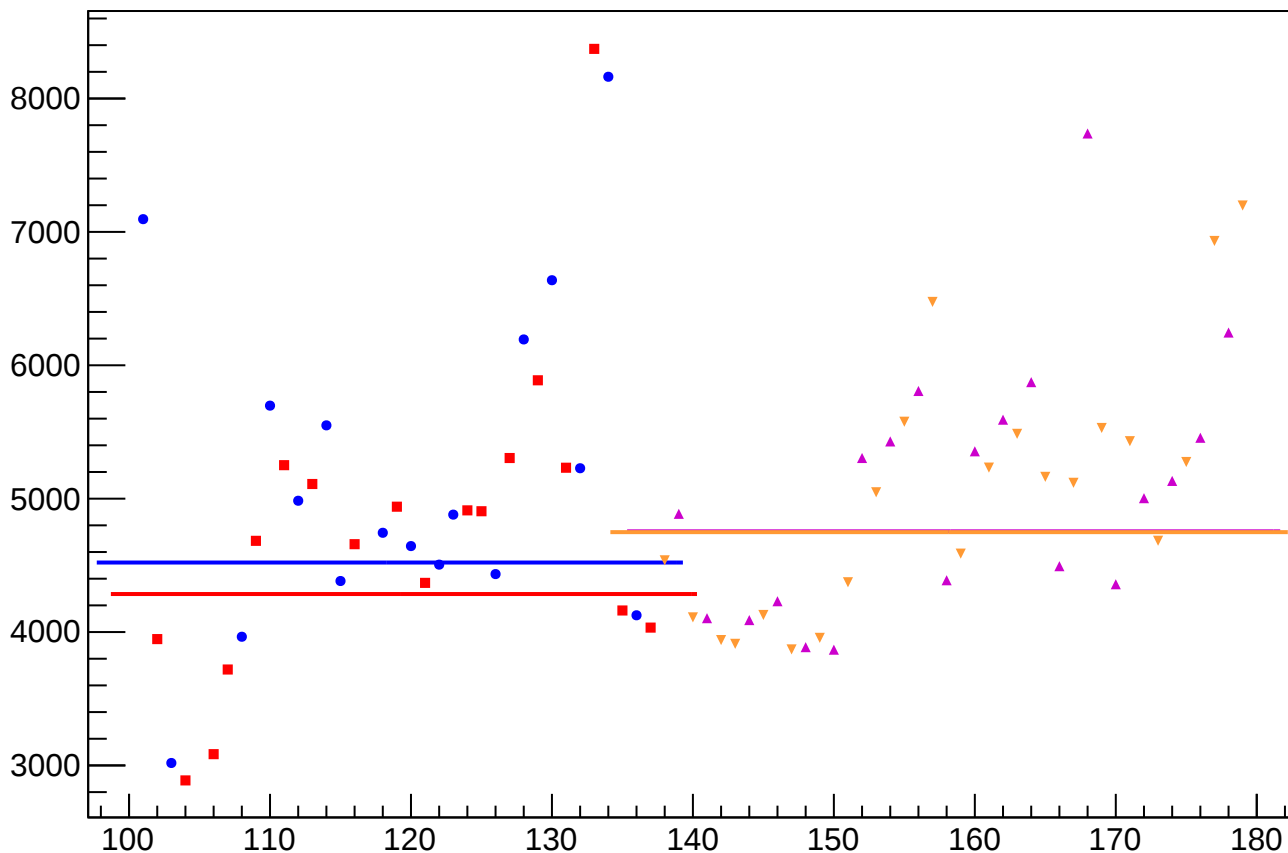
Right: -1511.498 $\pm$ 1233.889  $\chi^2$ /NDF: 31.1/34

In: -681.086 $\pm$ 1010.125  $\chi^2$ /NDF:35.6/36

Out: 766.261 $\pm$ 969.619  $\chi^2$ /NDF:35.9/39

All: 72.188 $\pm$ 699.506  $\chi^2$ /NDF: 72.5/76

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



Right In: 4521.230+/-1.274  $\chi^2/\text{NDF}$ : 778675.0/16

Left Out: 4749.050+/-0.836  $\chi^2/\text{NDF}$ : 952233.6/21

Right Out: 4285.069+/-1.191  $\chi^2/\text{NDF}$ : 746400.9/17

Left In: 4755.268+/-0.863  $\chi^2/\text{NDF}$ : 875661.7/19

Left: 4752.063+/-0.600  $\chi^2/\text{NDF}$ : 1827922.1/41

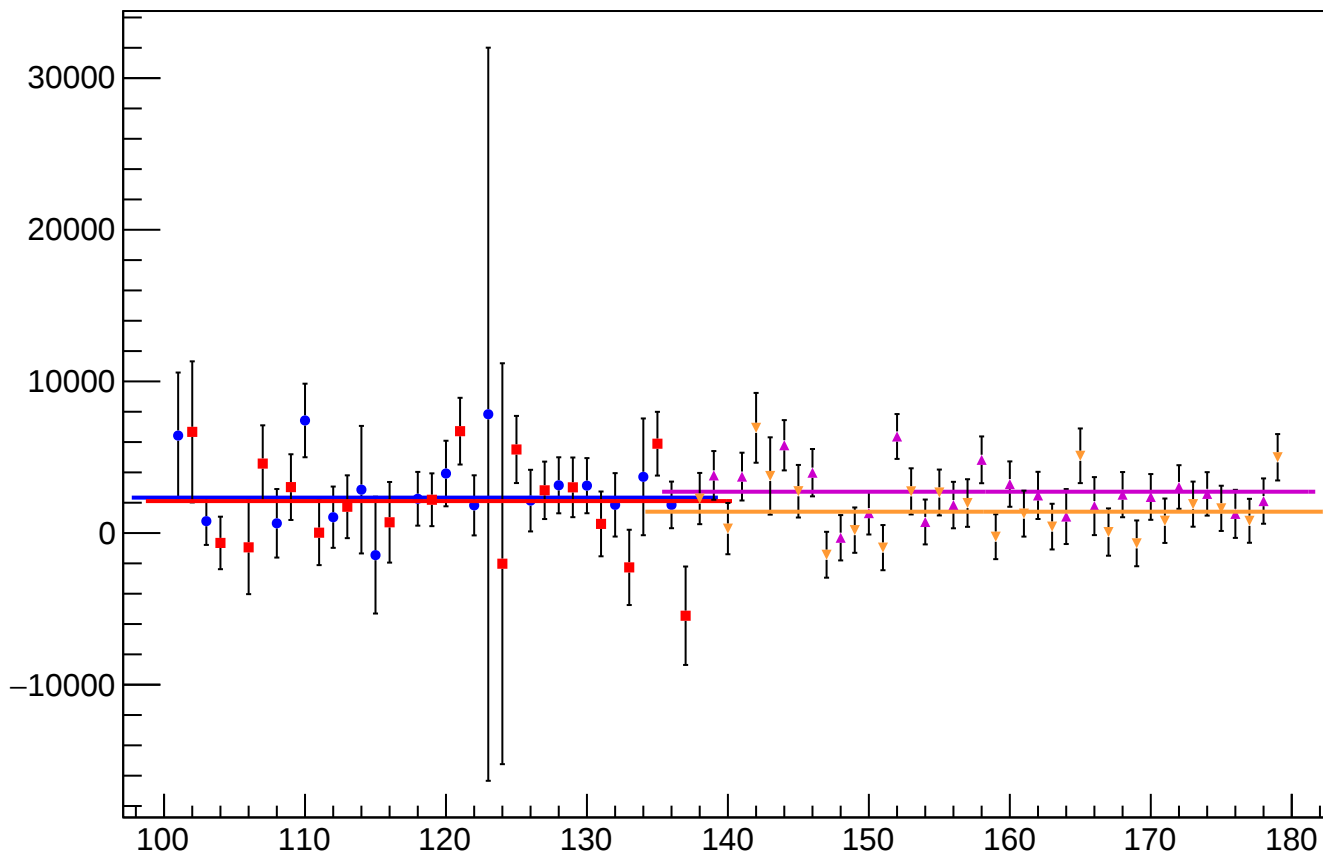
Right: 4395.146+/-0.870  $\chi^2/\text{NDF}$ : 1543416.6/34

In: 4681.723+/-0.714  $\chi^2/\text{NDF}$ : 1677472.8/36

Out: 4595.734+/-0.684  $\chi^2/\text{NDF}$ : 1800330.3/39

All: 4636.891+/-0.494  $\chi^2/\text{NDF}$ : 3485359.4/76

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



Right In: 2336.975 $\pm$ 531.132  $\chi^2$ /NDF: 9.6/16

Left Out: 1408.308 $\pm$ 338.115  $\chi^2$ /NDF:30.8/21

Right Out: 2107.117 $\pm$ 539.611  $\chi^2$ /NDF: 26.4/17

Left In: 2725.233 $\pm$ 344.647  $\chi^2$ /NDF:22.5/19

Left: 2054.173 $\pm$ 241.360  $\chi^2$ /NDF: 60.6/41

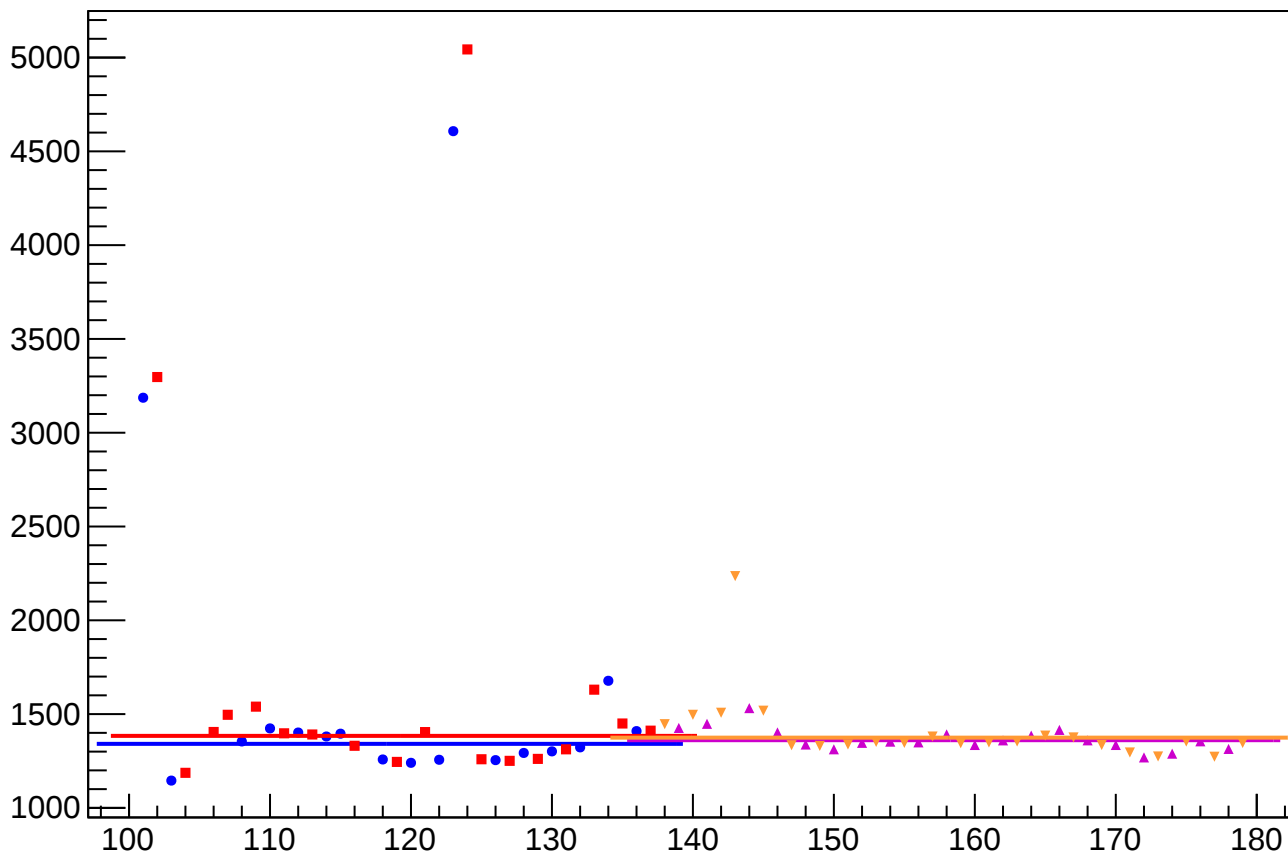
Right: 2223.866 $\pm$ 378.529  $\chi^2$ /NDF: 36.1/34

In: 2610.192 $\pm$ 289.113  $\chi^2$ /NDF:32.5/36

Out: 1605.321 $\pm$ 286.516  $\chi^2$ /NDF:58.3/39

All: 2103.223 $\pm$ 203.510  $\chi^2$ /NDF: 96.9/76

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



Right In: 1341.374+/-0.376  $\chi^2/\text{NDF}$ : 504272.1/16

Left Out: 1374.491+/-0.239  $\chi^2/\text{NDF}$ : 297288.3/21

Right Out: 1383.916+/-0.381  $\chi^2/\text{NDF}$ : 593846.2/17

Left In: 1360.892+/-0.244  $\chi^2/\text{NDF}$ : 54456.6/19

Left: 1367.822+/-0.171  $\chi^2/\text{NDF}$ : 353331.6/41

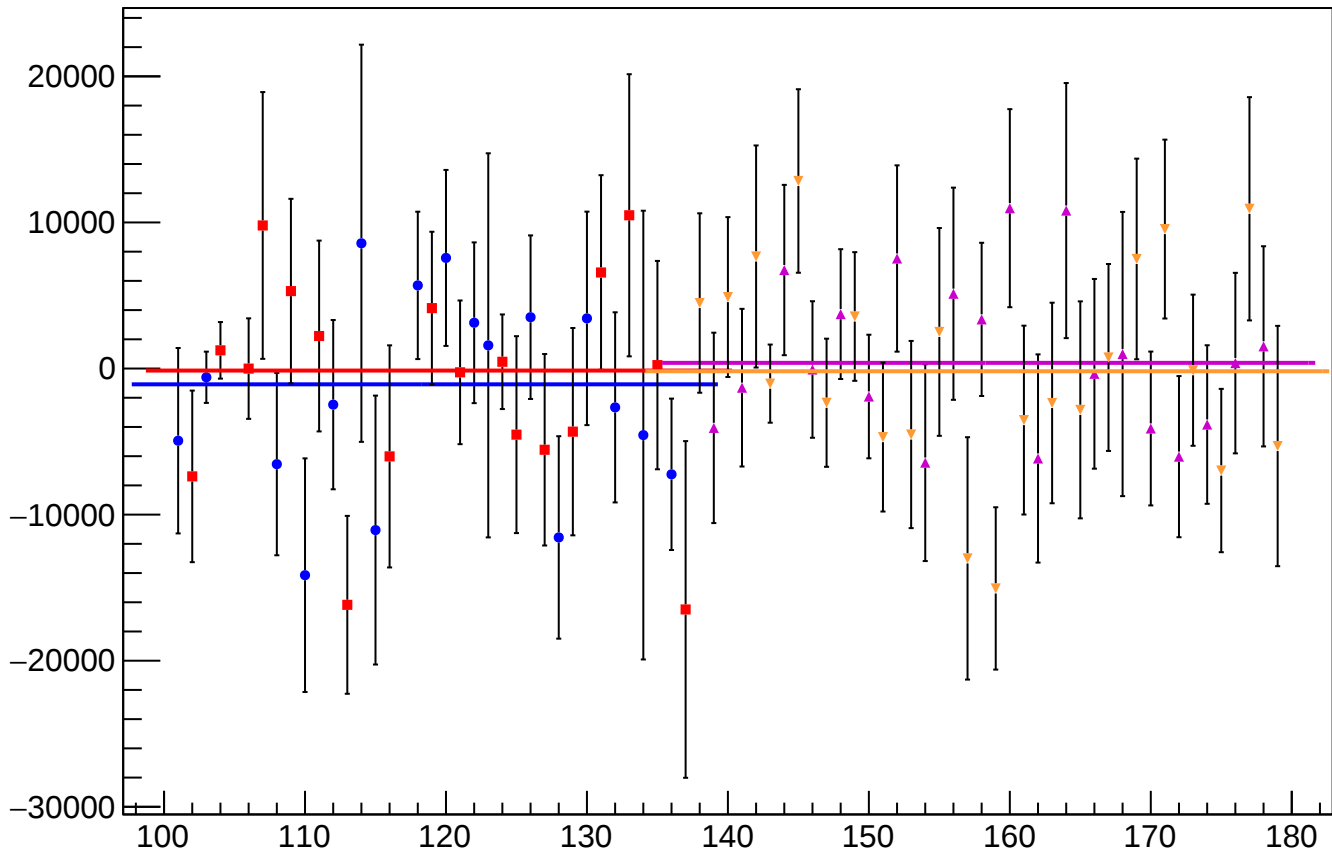
Right: 1362.318+/-0.268  $\chi^2/\text{NDF}$ : 1104435.3/34

In: 1355.109+/-0.204  $\chi^2/\text{NDF}$ : 560629.3/36

Out: 1377.150+/-0.203  $\chi^2/\text{NDF}$ : 891572.9/39

All: 1366.230+/-0.144  $\chi^2/\text{NDF}$ : 1458067.5/76

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



Right In: -1081.040+/-1212.382  $\chi^2/\text{NDF}$ : 15.0/16

Left Out: -185.763+/-1184.777  $\chi^2/\text{NDF}$ : 27.1/21

Right Out: -138.838+/-1129.319  $\chi^2/\text{NDF}$ : 18.0/17

Left In: 388.999+/-1312.061  $\chi^2/\text{NDF}$ : 13.1/19

Left: 72.394+/-879.330  $\chi^2/\text{NDF}$ : 40.3/41

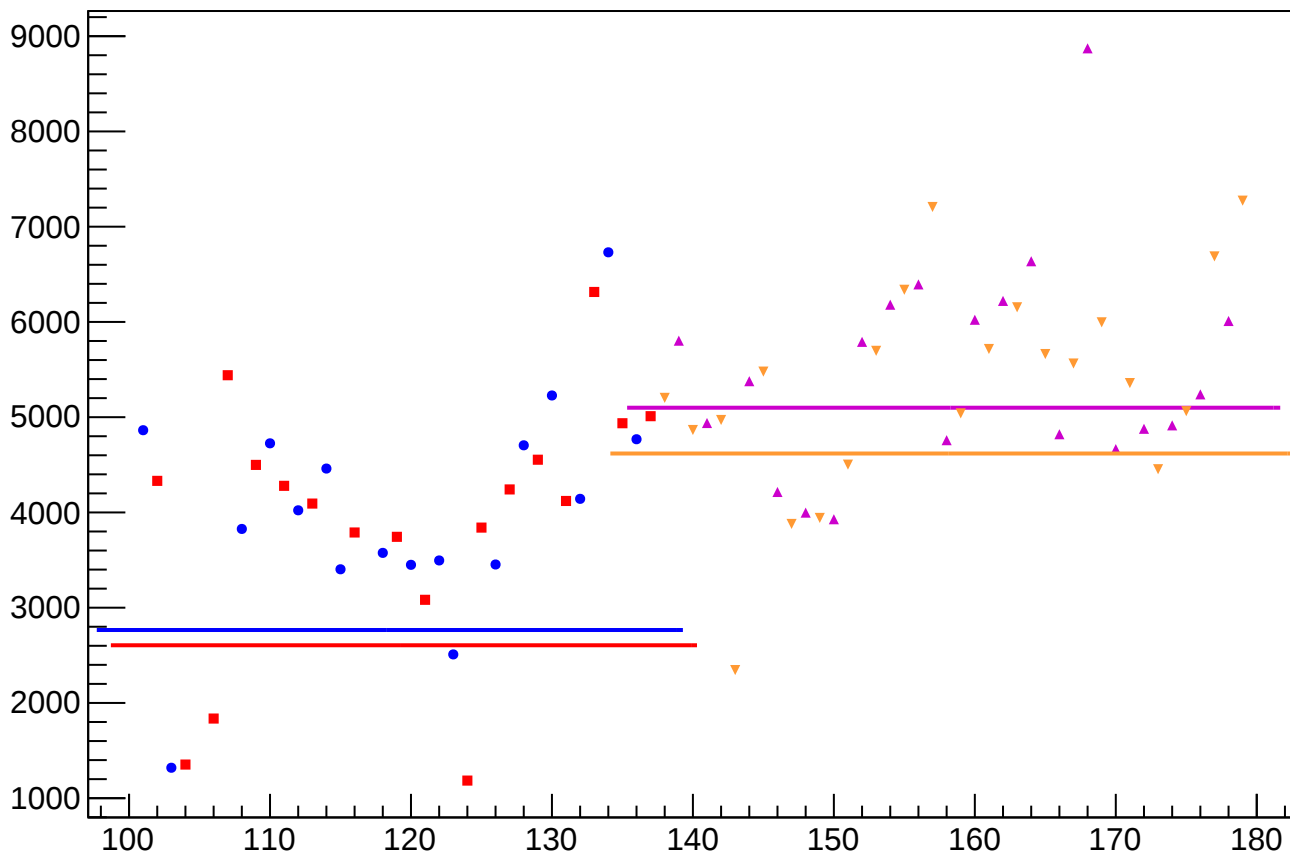
Right: -576.559+/-826.355  $\chi^2/\text{NDF}$ : 33.3/34

In: -403.975+/-890.440  $\chi^2/\text{NDF}$ : 28.8/36

Out: -161.176+/-817.452  $\chi^2/\text{NDF}$ : 45.1/39

All: -272.218+/-602.178  $\chi^2/\text{NDF}$ : 73.9/76

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



Right In: 2765.736+/-0.857  $\chi^2/\text{NDF}$ : 2939083.2/16

Left Out: 4618.703+/-0.838  $\chi^2/\text{NDF}$ : 2713983.6/21

Right Out: 2605.528+/-0.799  $\chi^2/\text{NDF}$ : 3322334.9/17

Left In: 5099.390+/-0.928  $\chi^2/\text{NDF}$ : 1033254.7/19

Left: 4834.605+/-0.622  $\chi^2/\text{NDF}$ : 3895106.8/41

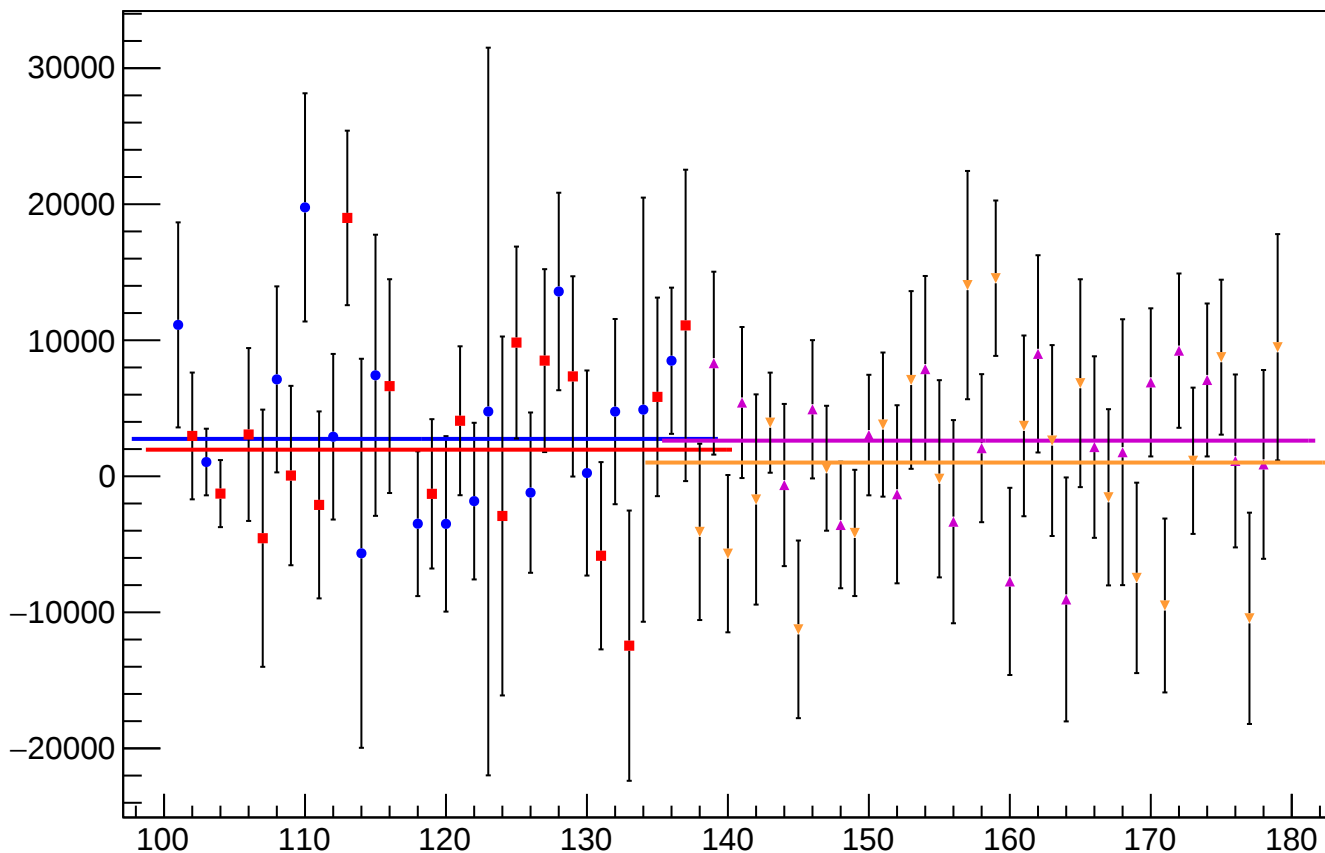
Right: 2679.956+/-0.584  $\chi^2/\text{NDF}$ : 6280117.2/34

In: 3840.561+/-0.630  $\chi^2/\text{NDF}$ : 7385246.7/36

Out: 3563.897+/-0.578  $\chi^2/\text{NDF}$ : 9061917.4/39

All: 3690.427+/-0.426  $\chi^2/\text{NDF}$ : 16551938.0/74

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



Right In: 2748.280+/-1446.638  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 1010.060+/-1280.426  $\chi^2/\text{NDF}$ : 26.9/21

Right Out: 1955.923+/-1384.301  $\chi^2/\text{NDF}$ : 17.8/17

Left In: 2620.108+/-1357.749  $\chi^2/\text{NDF}$ : 12.3/19

Left: 1767.935+/-931.535  $\chi^2/\text{NDF}$ : 40.0/41

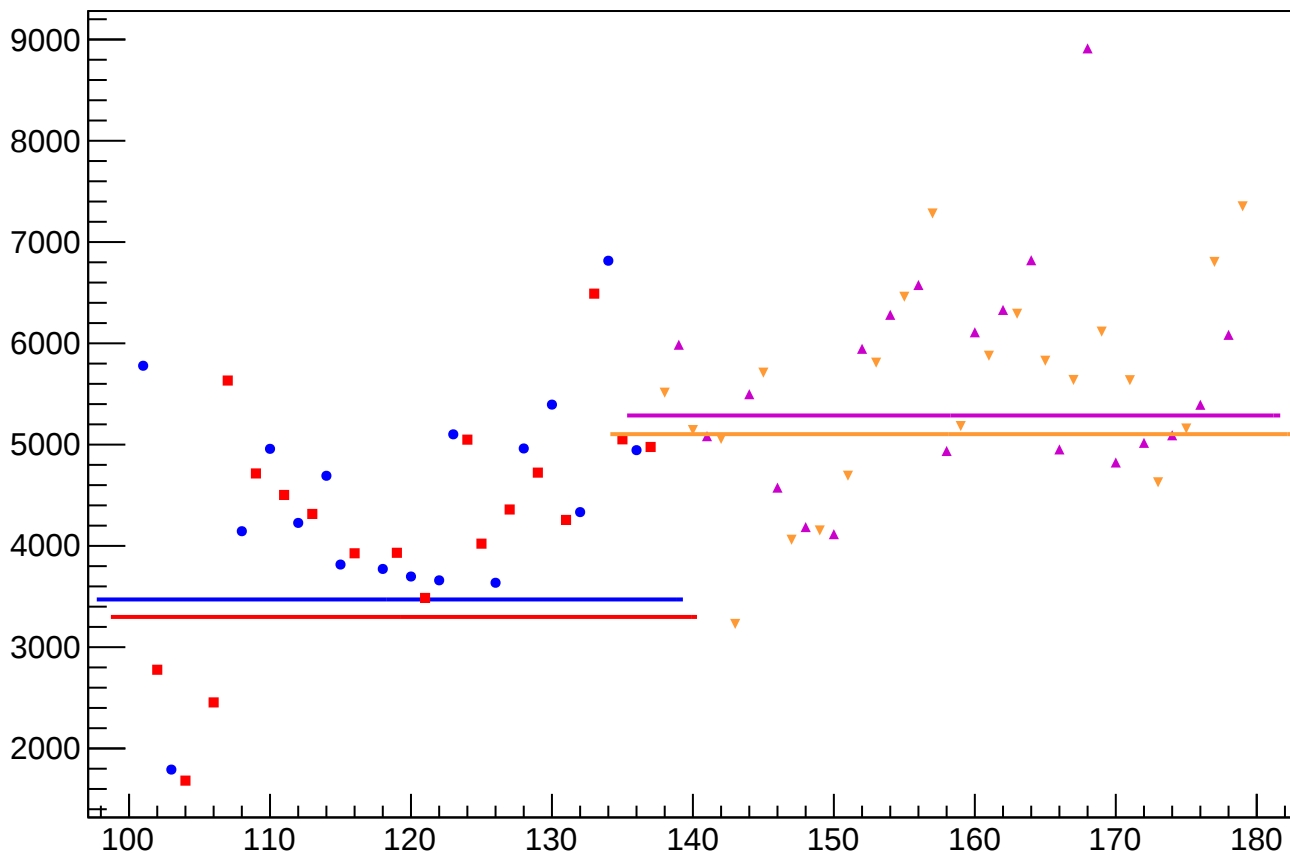
Right: 2334.662+/-1000.160  $\chi^2/\text{NDF}$ : 31.7/34

In: 2680.135+/-990.007  $\chi^2/\text{NDF}$ : 26.1/36

Out: 1446.176+/-939.978  $\chi^2/\text{NDF}$ : 44.9/39

All: 2031.190+/-681.665  $\chi^2/\text{NDF}$ : 71.9/76

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



Right In: 3471.154+/-1.023  $\chi^2/\text{NDF}$ : 1767892.8/16

Left Out: 5103.308+/-0.905  $\chi^2/\text{NDF}$ : 1401903.2/21

Right Out: 3298.657+/-0.970  $\chi^2/\text{NDF}$ : 1886021.8/17

Left In: 5287.656+/-0.960  $\chi^2/\text{NDF}$ : 905213.0/19

Left: 5190.084+/-0.659  $\chi^2/\text{NDF}$ : 2326630.7/41

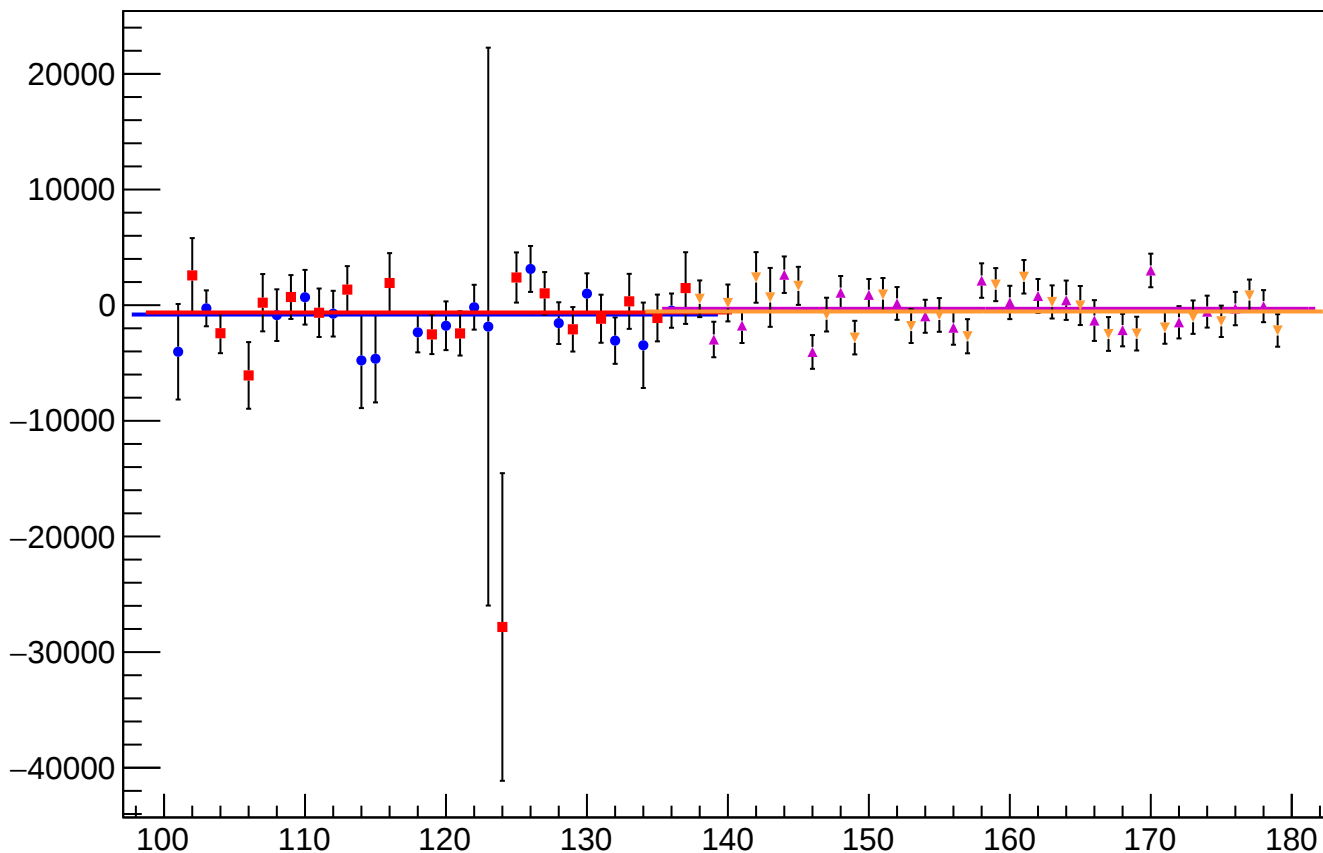
Right: 3380.318+/-0.704  $\chi^2/\text{NDF}$ : 3668889.8/34

In: 4436.902+/-0.700  $\chi^2/\text{NDF}$ : 4349711.7/36

Out: 4262.954+/-0.662  $\chi^2/\text{NDF}$ : 5137946.7/39

All: 4345.052+/-0.481  $\chi^2/\text{NDF}$ : 9520261.5/76

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



Right In: -809.017+/-518.190  $\chi^2/\text{NDF}$ : 11.2/16

Left Out: -544.919+/-321.754  $\chi^2/\text{NDF}$ : 25.6/21

Right Out: -630.651+/-514.931  $\chi^2/\text{NDF}$ : 18.6/17

Left In: -313.203+/-328.316  $\chi^2/\text{NDF}$ : 28.8/19

Left: -431.399+/-229.799  $\chi^2/\text{NDF}$ : 54.7/41

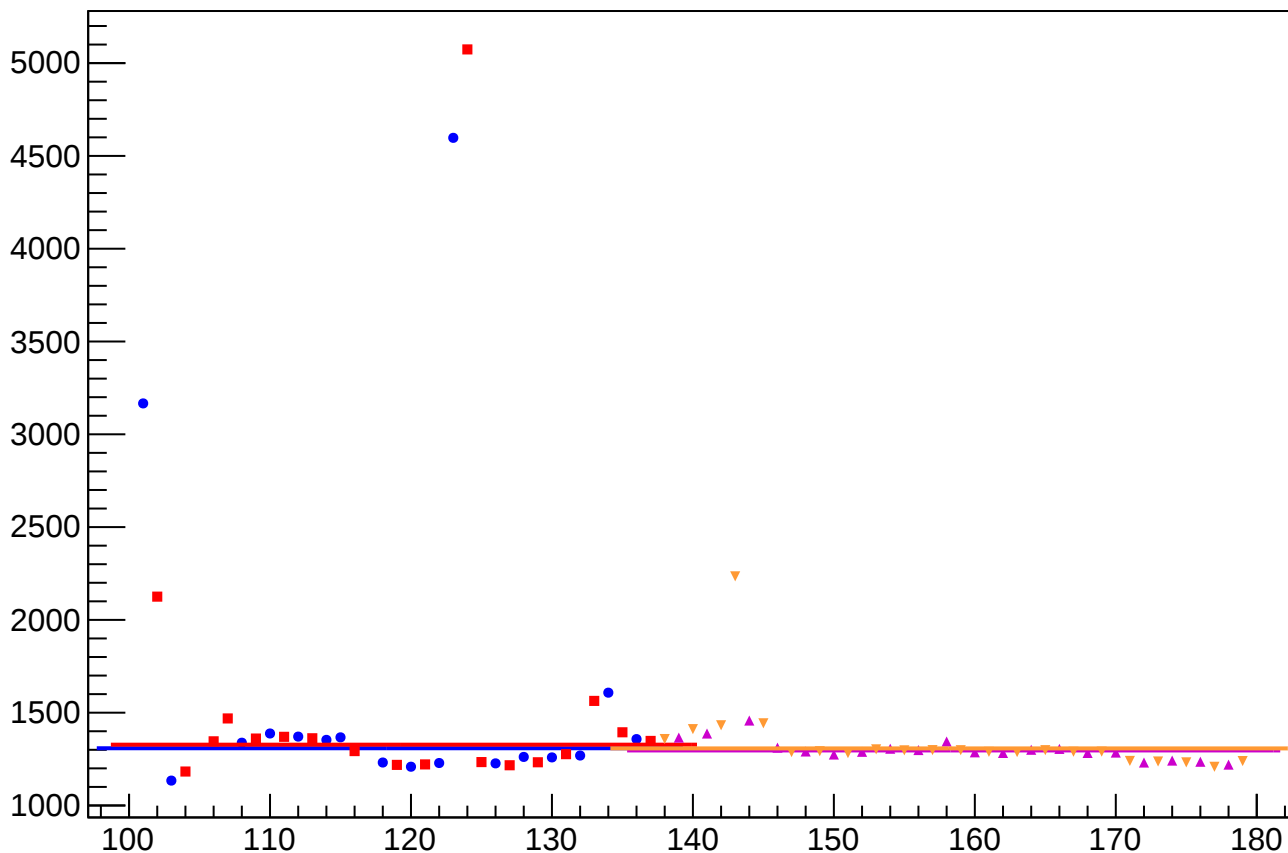
Right: -719.271+/-365.258  $\chi^2/\text{NDF}$ : 29.8/34

In: -455.224+/-277.336  $\chi^2/\text{NDF}$ : 40.6/36

Out: -568.992+/-272.866  $\chi^2/\text{NDF}$ : 44.2/39

All: -513.033+/-194.507  $\chi^2/\text{NDF}$ : 84.9/76

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



Right In: 1308.367+/-0.366  $\chi^2/\text{NDF}$ : 506545.0/16

Left Out: 1307.557+/-0.228  $\chi^2/\text{NDF}$ : 328836.7/21

Right Out: 1327.647+/-0.364  $\chi^2/\text{NDF}$ : 357330.6/17

Left In: 1296.579+/-0.232  $\chi^2/\text{NDF}$ : 52915.5/19

Left: 1302.179+/-0.162  $\chi^2/\text{NDF}$ : 382892.8/41

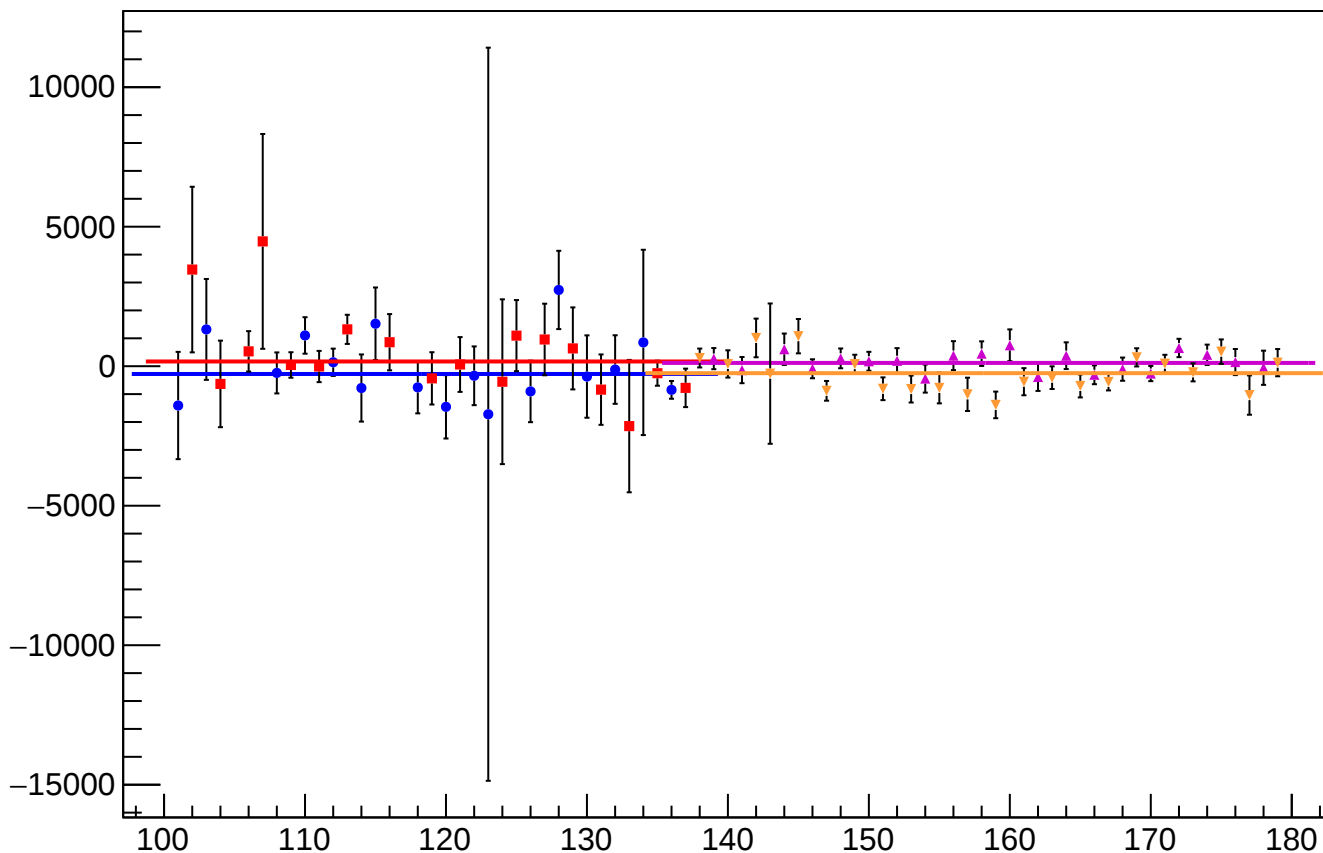
Right: 1318.067+/-0.258  $\chi^2/\text{NDF}$ : 865268.7/34

In: 1299.955+/-0.196  $\chi^2/\text{NDF}$ : 560199.0/36

Out: 1313.198+/-0.193  $\chi^2/\text{NDF}$ : 688356.7/39

All: 1306.684+/-0.138  $\chi^2/\text{NDF}$ : 1250872.8/76

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



Right In: -278.710+/-198.123  $\chi^2/\text{NDF}$ : 18.0/16

Left Out: -249.225+/-90.280  $\chi^2/\text{NDF}$ :38.6/21

Right Out: 169.608+/-192.488  $\chi^2/\text{NDF}$ : 14.4/17

Left In: 118.099+/-90.805  $\chi^2/\text{NDF}$ :13.7/19

Left: -66.628+/-64.022  $\chi^2/\text{NDF}$ : 60.5/41

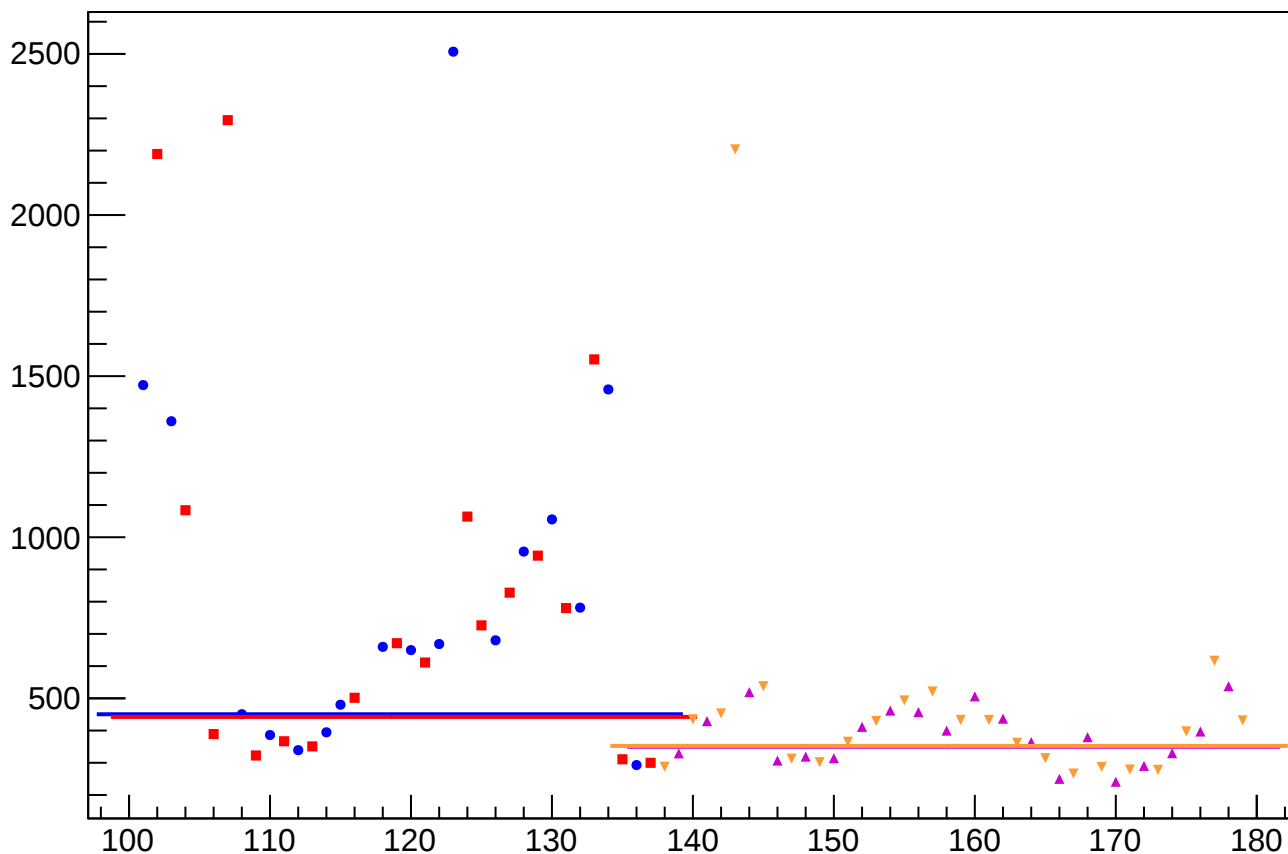
Right: -48.085+/-138.058  $\chi^2/\text{NDF}$ : 35.0/34

In: 49.215+/-82.548  $\chi^2/\text{NDF}$ :35.1/36

Out: -173.704+/-81.736  $\chi^2/\text{NDF}$ :56.8/39

All: -63.346+/-58.081  $\chi^2/\text{NDF}$ : 95.6/76

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



Right In: 450.595 $\pm$ 0.140  $\chi^2$ /NDF: 2997735.1/16

Left Out: 352.341 $\pm$ 0.064  $\chi^2$ /NDF: 2789988.6/21

Right Out: 442.368 $\pm$ 0.136  $\chi^2$ /NDF: 3368329.0/17

Left In: 349.576 $\pm$ 0.064  $\chi^2$ /NDF: 1559065.2/19

Left: 350.966 $\pm$ 0.045  $\chi^2$ /NDF: 4349986.1/41

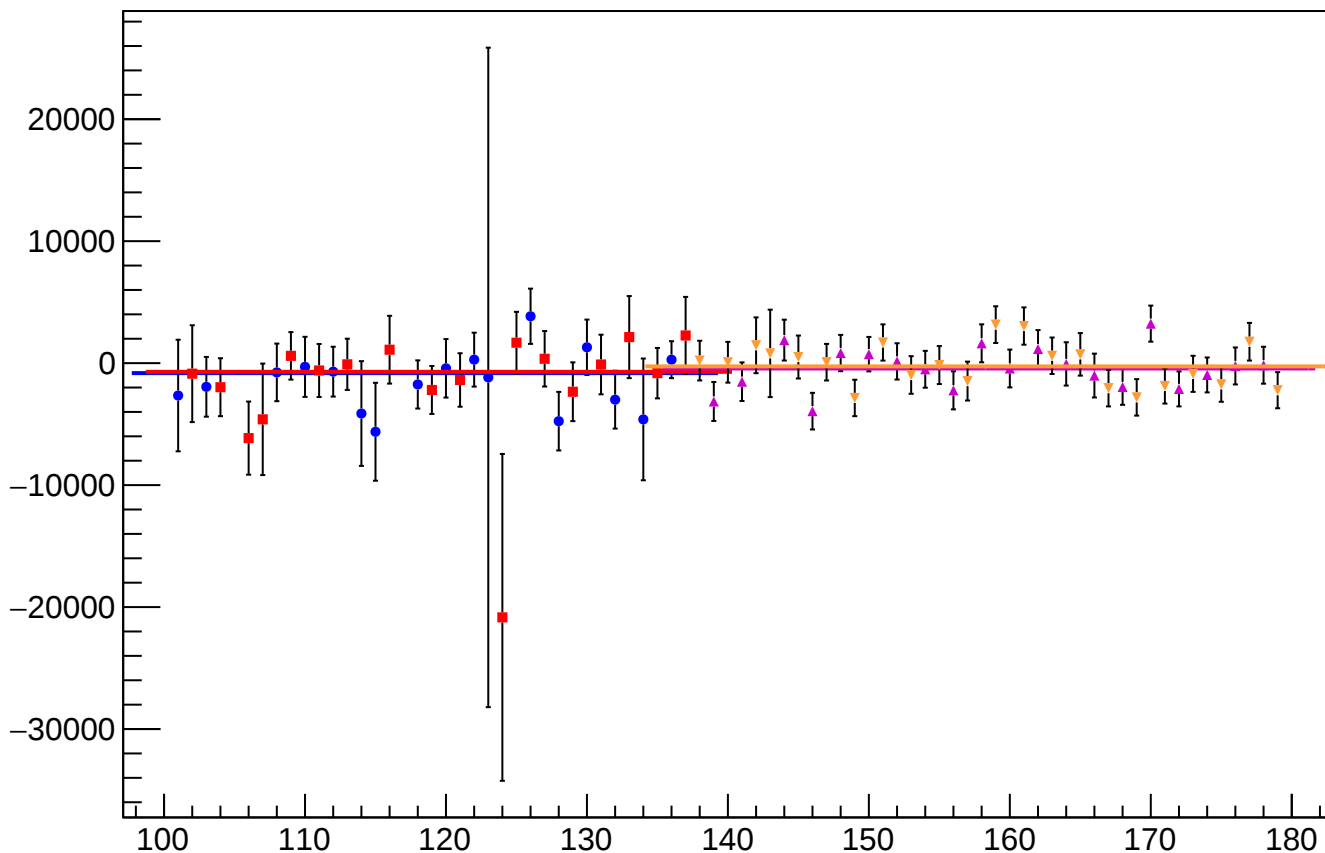
Right: 446.363 $\pm$ 0.098  $\chi^2$ /NDF: 6367838.5/34

In: 367.113 $\pm$ 0.058  $\chi^2$ /NDF: 4986498.6/36

Out: 368.573 $\pm$ 0.058  $\chi^2$ /NDF: 6516924.7/39

All: 367.850 $\pm$ 0.041  $\chi^2$ /NDF: 11503739.6/76

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



Right In: -817.110+/-601.150  $\chi^2/\text{NDF}$ : 12.7/16

Left Out: -266.221+/-338.221  $\chi^2/\text{NDF}$ : 27.3/21

Right Out: -710.618+/-596.065  $\chi^2/\text{NDF}$ : 11.4/17

Left In: -436.182+/-343.272  $\chi^2/\text{NDF}$ : 25.4/19

Left: -349.942+/-240.925  $\chi^2/\text{NDF}$ : 52.8/41

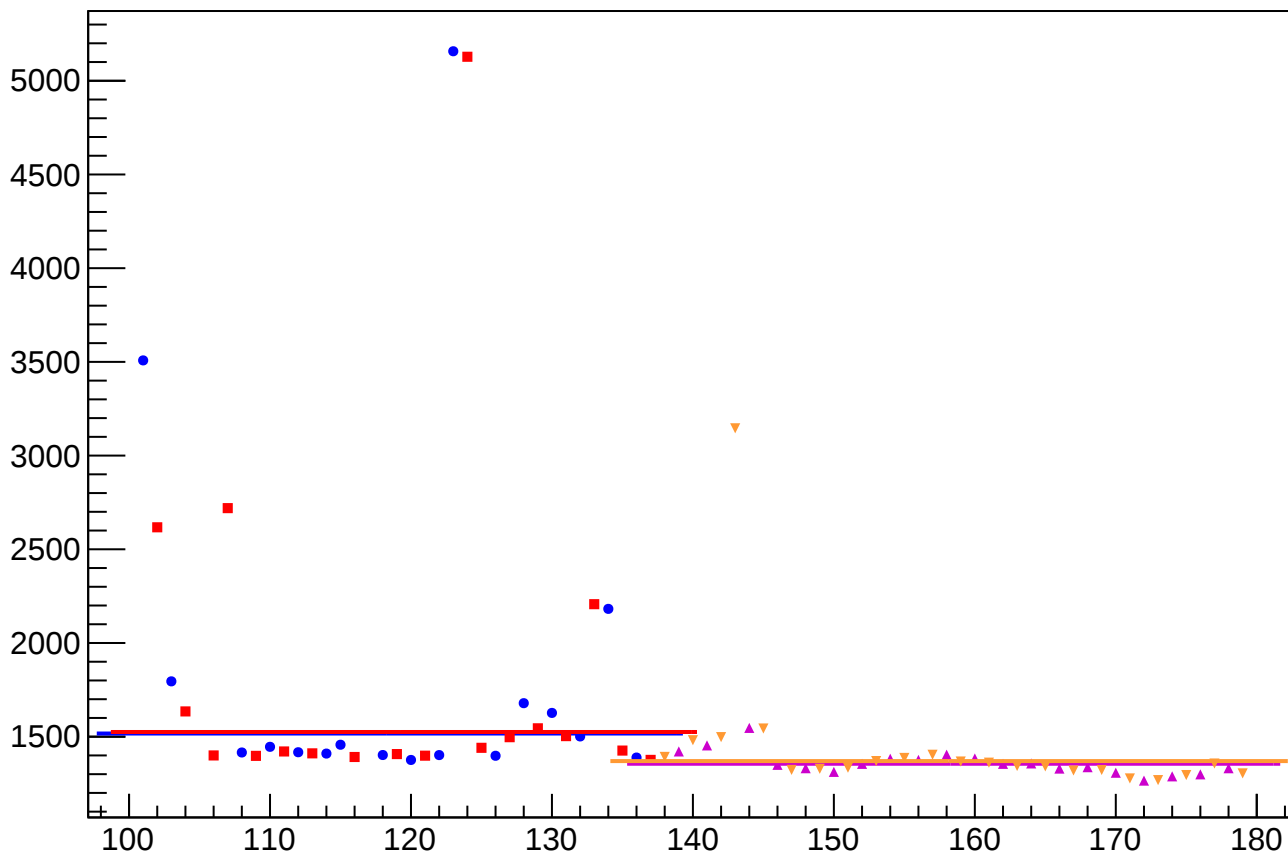
Right: -763.412+/-423.268  $\chi^2/\text{NDF}$ : 24.1/34

In: -529.849+/-298.095  $\chi^2/\text{NDF}$ : 38.4/36

Out: -374.455+/-294.165  $\chi^2/\text{NDF}$ : 39.2/39

All: -451.121+/-209.382  $\chi^2/\text{NDF}$ : 77.6/76

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



Right In: 1516.935+/-0.425  $\chi^2/\text{NDF}$ : 541039.6/16

Left Out: 1369.814+/-0.239  $\chi^2/\text{NDF}$ : 564470.1/21

Right Out: 1525.099+/-0.421  $\chi^2/\text{NDF}$ : 571929.2/17

Left In: 1355.637+/-0.243  $\chi^2/\text{NDF}$ : 61556.0/19

Left: 1362.831+/-0.170  $\chi^2/\text{NDF}$ : 627757.2/41

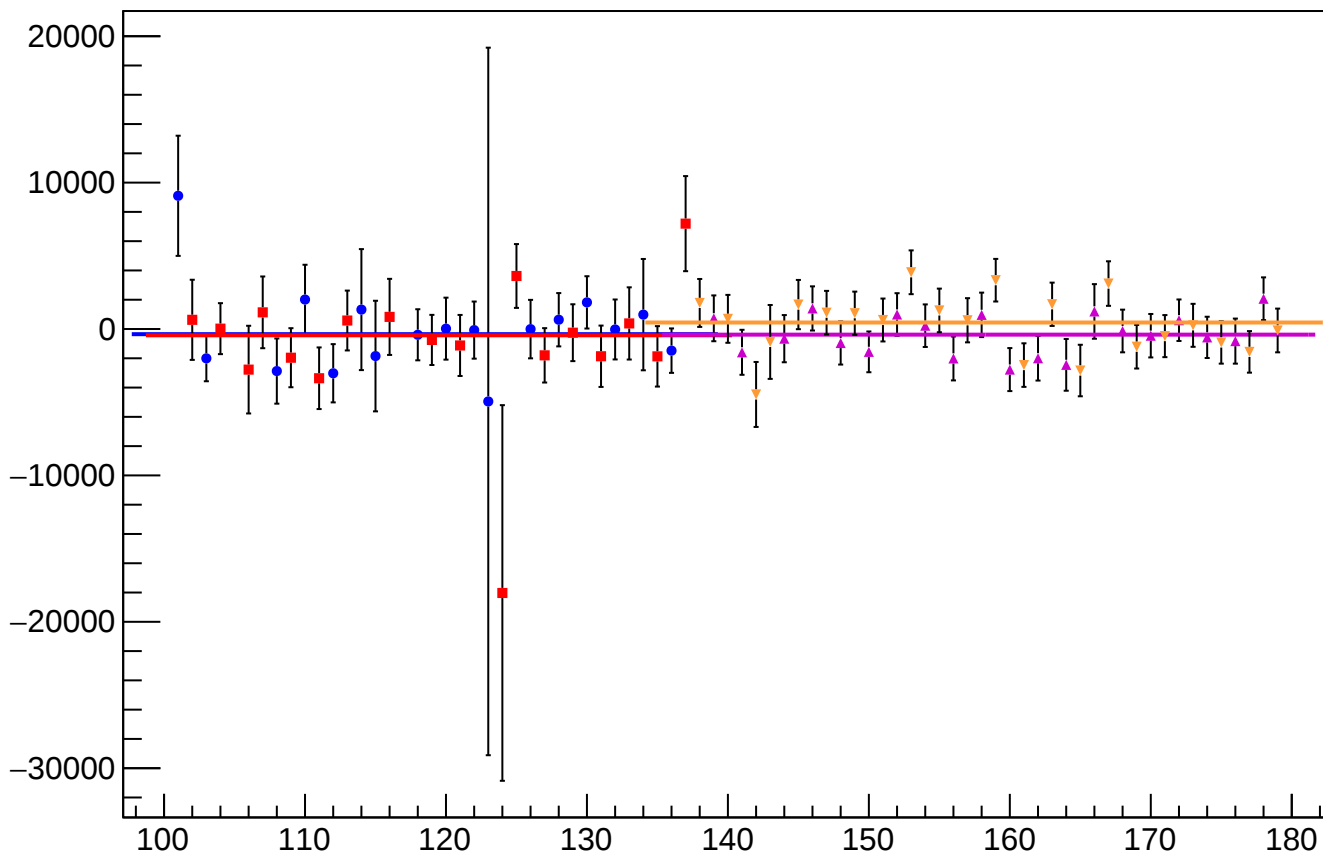
Right: 1521.052+/-0.299  $\chi^2/\text{NDF}$ : 1113154.8/34

In: 1395.299+/-0.211  $\chi^2/\text{NDF}$ : 711177.6/36

Out: 1407.635+/-0.208  $\chi^2/\text{NDF}$ : 1239079.1/39

All: 1401.549+/-0.148  $\chi^2/\text{NDF}$ : 1951991.8/76

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



Right In: -353.131+/-523.324  $\chi^2/\text{NDF}$ : 13.4/16

Left Out: 444.187+/-330.932  $\chi^2/\text{NDF}$ : 32.1/21

Right Out: -429.167+/-522.342  $\chi^2/\text{NDF}$ : 16.8/17

Left In: -384.827+/-337.567  $\chi^2/\text{NDF}$ : 15.7/19

Left: 37.908+/-236.315  $\chi^2/\text{NDF}$ : 50.9/41

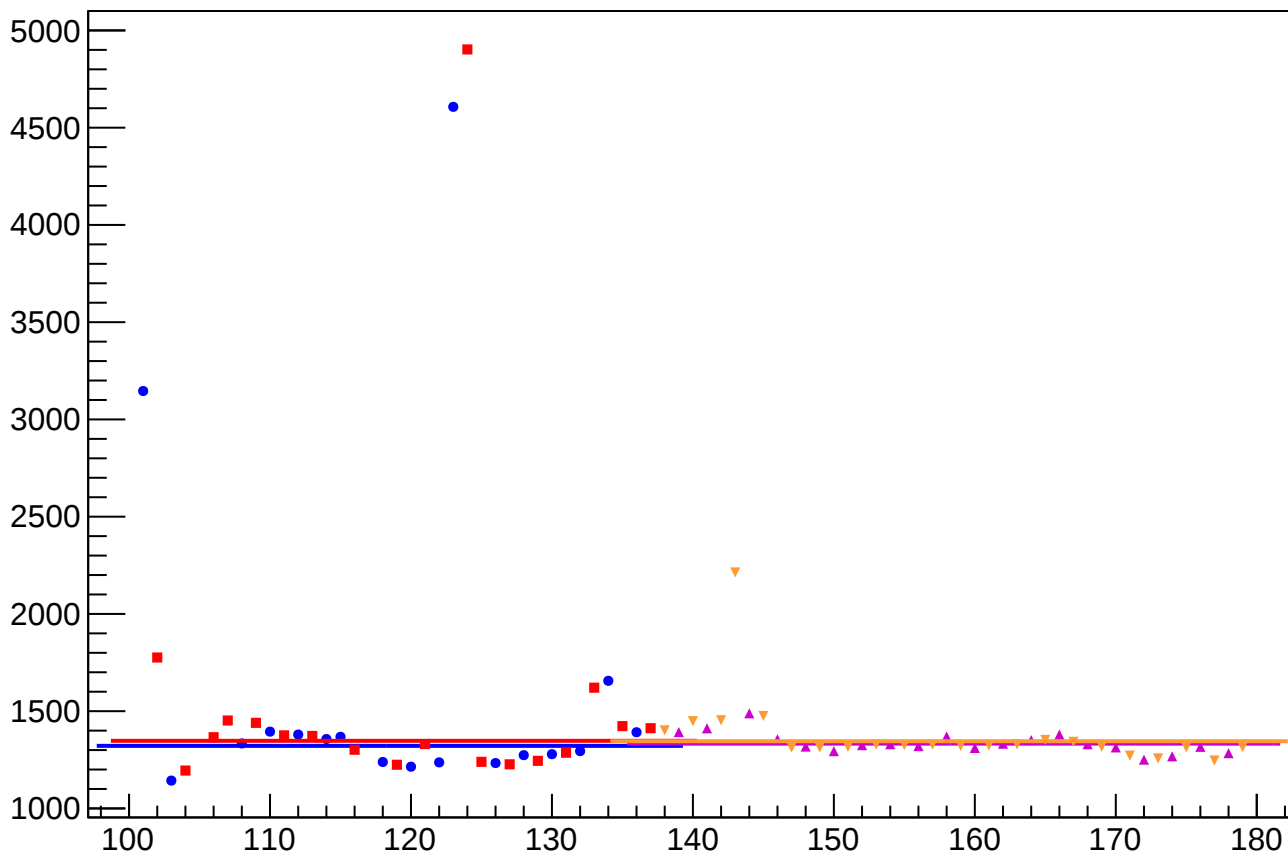
Right: -391.220+/-369.698  $\chi^2/\text{NDF}$ : 30.3/34

In: -375.514+/-283.672  $\chi^2/\text{NDF}$ : 29.1/36

Out: 194.038+/-279.550  $\chi^2/\text{NDF}$ : 50.9/39

All: -86.569+/-199.113  $\chi^2/\text{NDF}$ : 82.1/76

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



Right In: 1321.703 $\pm$ 0.370  $\chi^2$ /NDF: 502245.7/16

Left Out: 1345.536 $\pm$ 0.234  $\chi^2$ /NDF: 293059.2/21

Right Out: 1347.646 $\pm$ 0.369  $\chi^2$ /NDF: 286301.2/17

Left In: 1333.255 $\pm$ 0.239  $\chi^2$ /NDF: 46231.9/19

Left: 1339.517 $\pm$ 0.167  $\chi^2$ /NDF: 340640.9/41

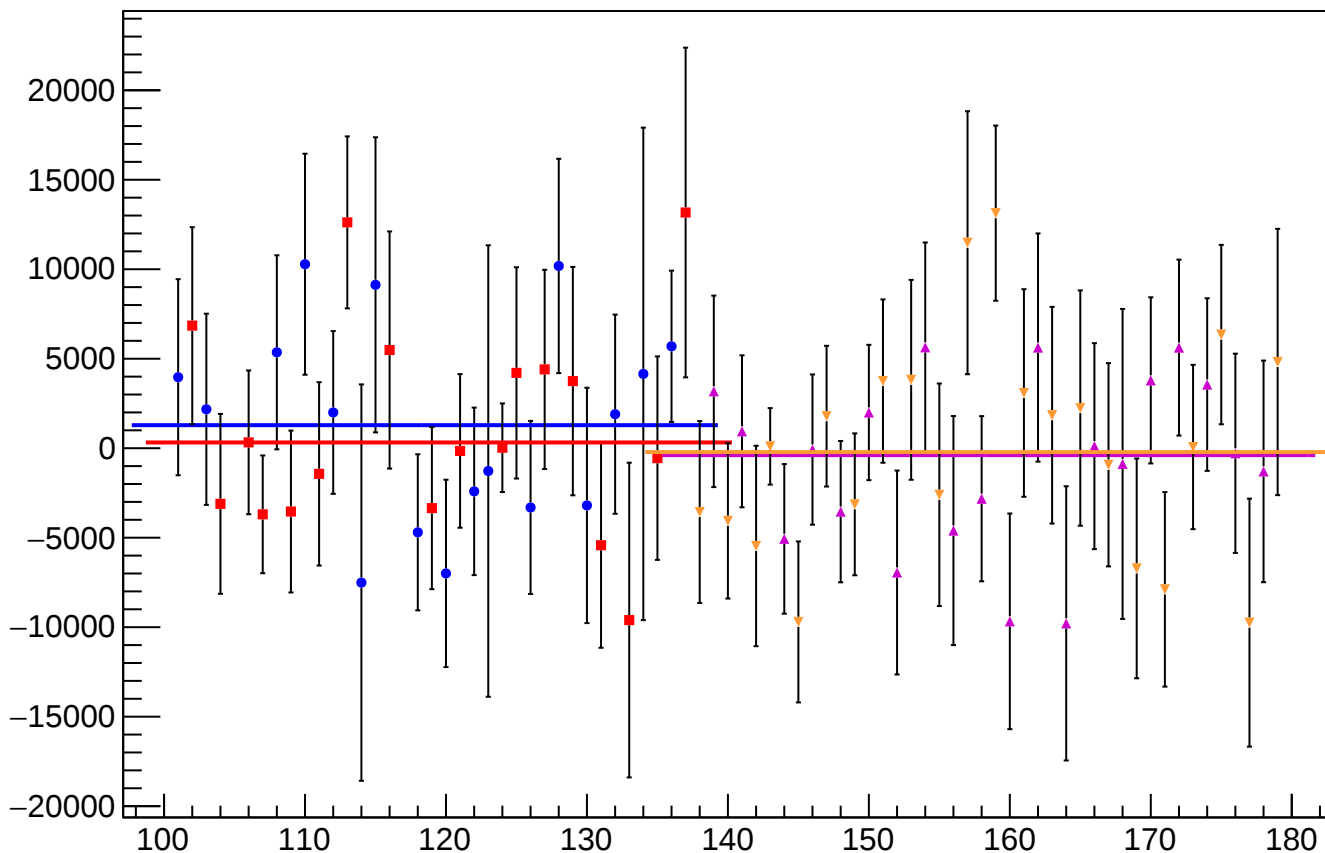
Right: 1334.706 $\pm$ 0.261  $\chi^2$ /NDF: 791010.5/34

In: 1329.861 $\pm$ 0.201  $\chi^2$ /NDF: 549165.9/36

Out: 1346.141 $\pm$ 0.198  $\chi^2$ /NDF: 579383.6/39

All: 1338.121 $\pm$ 0.141  $\chi^2$ /NDF: 1131892.0/76

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



Right In: 1287.495+/-1375.853  $\chi^2/\text{NDF}$ : 14.3/16

Left Out: -215.535+/-1007.968  $\chi^2/\text{NDF}$ : 26.6/21

Right Out: 321.508+/-1105.580  $\chi^2/\text{NDF}$ : 17.6/17

Left In: -385.254+/-1138.318  $\chi^2/\text{NDF}$ : 13.7/19

Left: -290.125+/-754.637  $\chi^2/\text{NDF}$ : 40.3/41

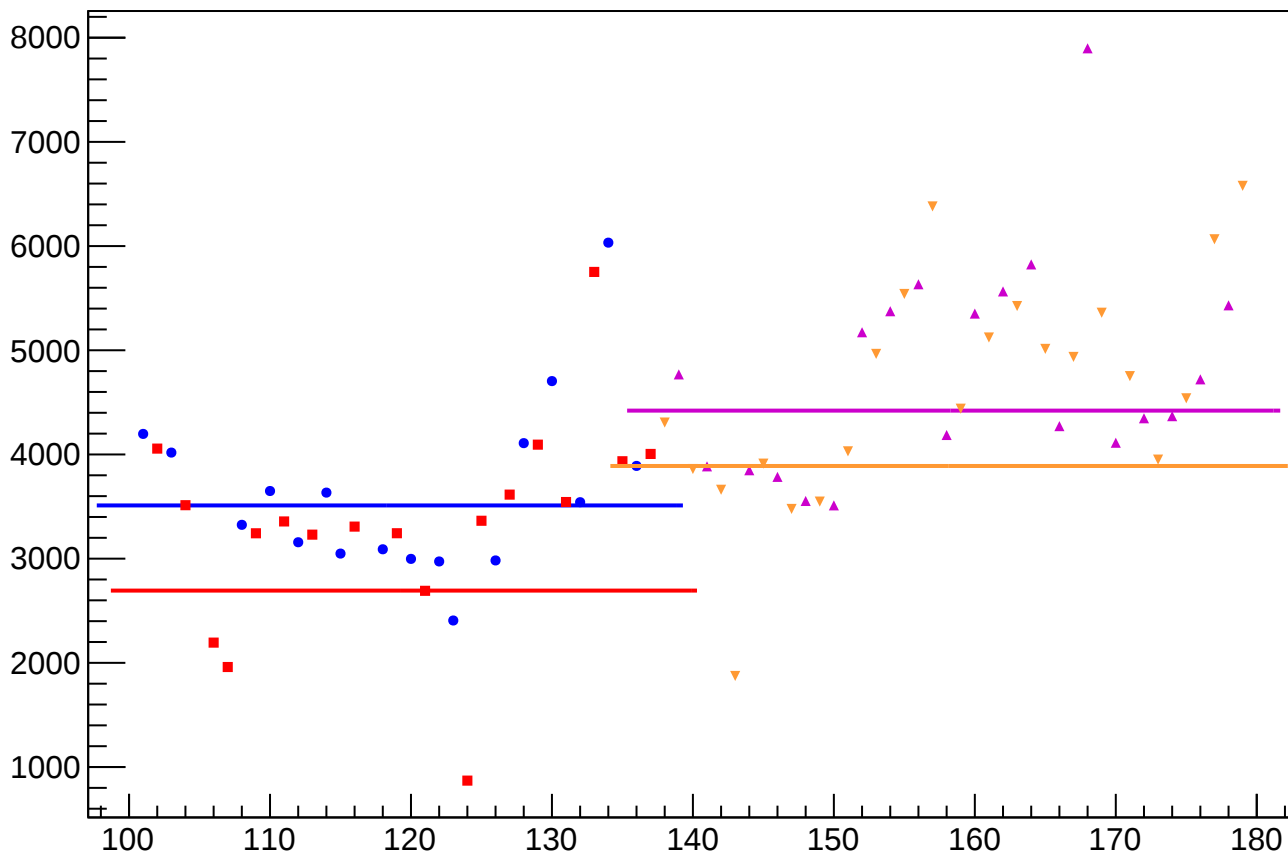
Right: 700.521+/-861.814  $\chi^2/\text{NDF}$ : 32.1/34

In: 294.480+/-877.054  $\chi^2/\text{NDF}$ : 28.9/36

Out: 28.236+/-744.864  $\chi^2/\text{NDF}$ : 44.2/39

All: 139.802+/-567.743  $\chi^2/\text{NDF}$ : 73.2/76

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



Right In: 3510.799+/-0.973  $\chi^2/\text{NDF}$ : 344054.4/16

Left Out: 3889.465+/-0.713  $\chi^2/\text{NDF}$ : 3306410.0/21

Right Out: 2693.503+/-0.782  $\chi^2/\text{NDF}$ : 2125842.2/17

Left In: 4420.848+/-0.805  $\chi^2/\text{NDF}$ : 1072252.3/19

Left: 4123.003+/-0.534  $\chi^2/\text{NDF}$ : 4622949.5/41

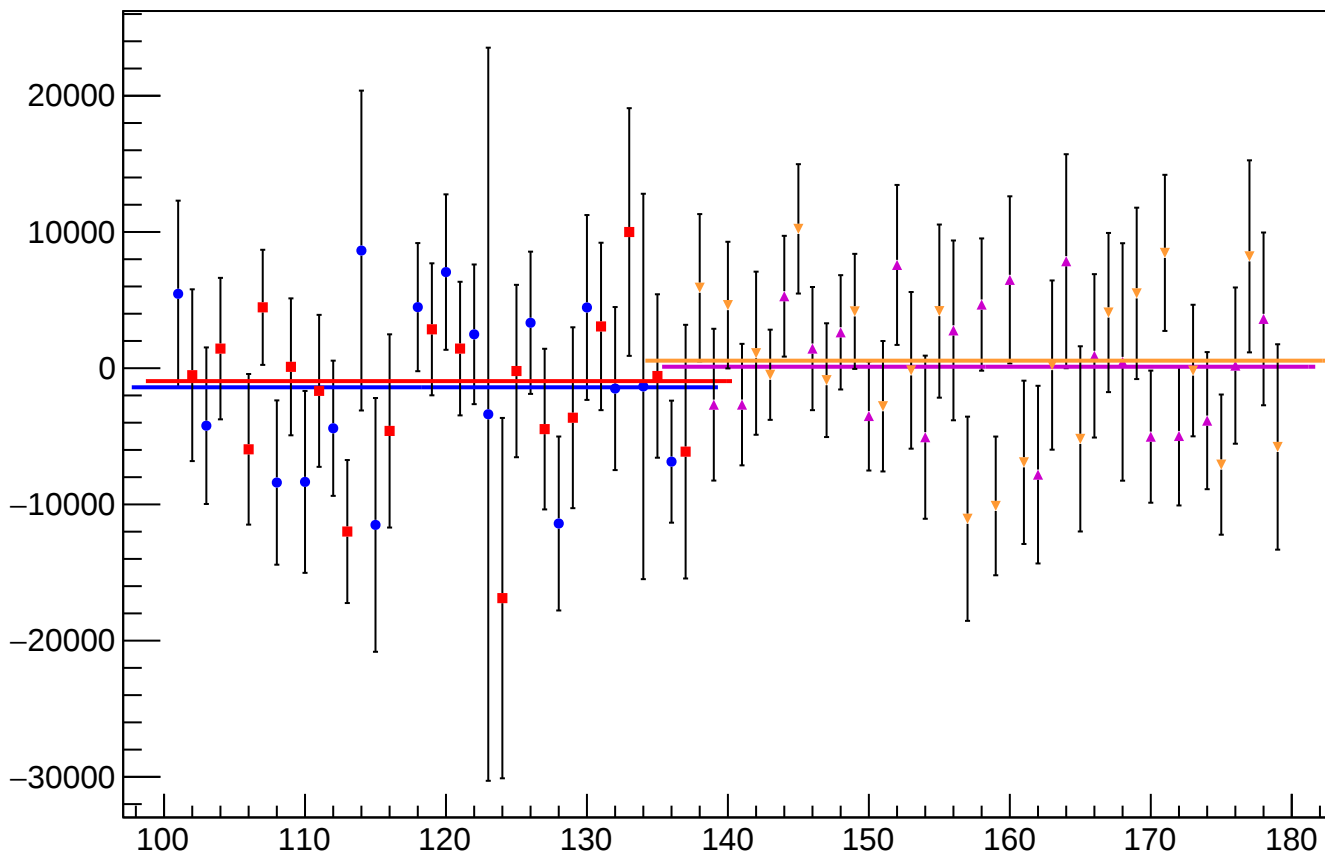
Right: 3014.176+/-0.609  $\chi^2/\text{NDF}$ : 2898733.2/34

In: 4051.043+/-0.620  $\chi^2/\text{NDF}$ : 1935753.0/36

Out: 3346.601+/-0.527  $\chi^2/\text{NDF}$ : 6710295.4/39

All: 3641.787+/-0.401  $\chi^2/\text{NDF}$ : 9395627.6/76

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



Right In: -1401.442 $\pm$ 1504.149  $\chi^2$ /NDF: 15.8/16

Left Out: 553.124 $\pm$ 1124.286  $\chi^2$ /NDF: 23.7/21

Right Out: -947.960 $\pm$ 1382.709  $\chi^2$ /NDF: 12.5/17

Left In: 107.634 $\pm$ 1189.528  $\chi^2$ /NDF: 13.3/19

Left: 342.930 $\pm$ 817.082  $\chi^2$ /NDF: 37.1/41

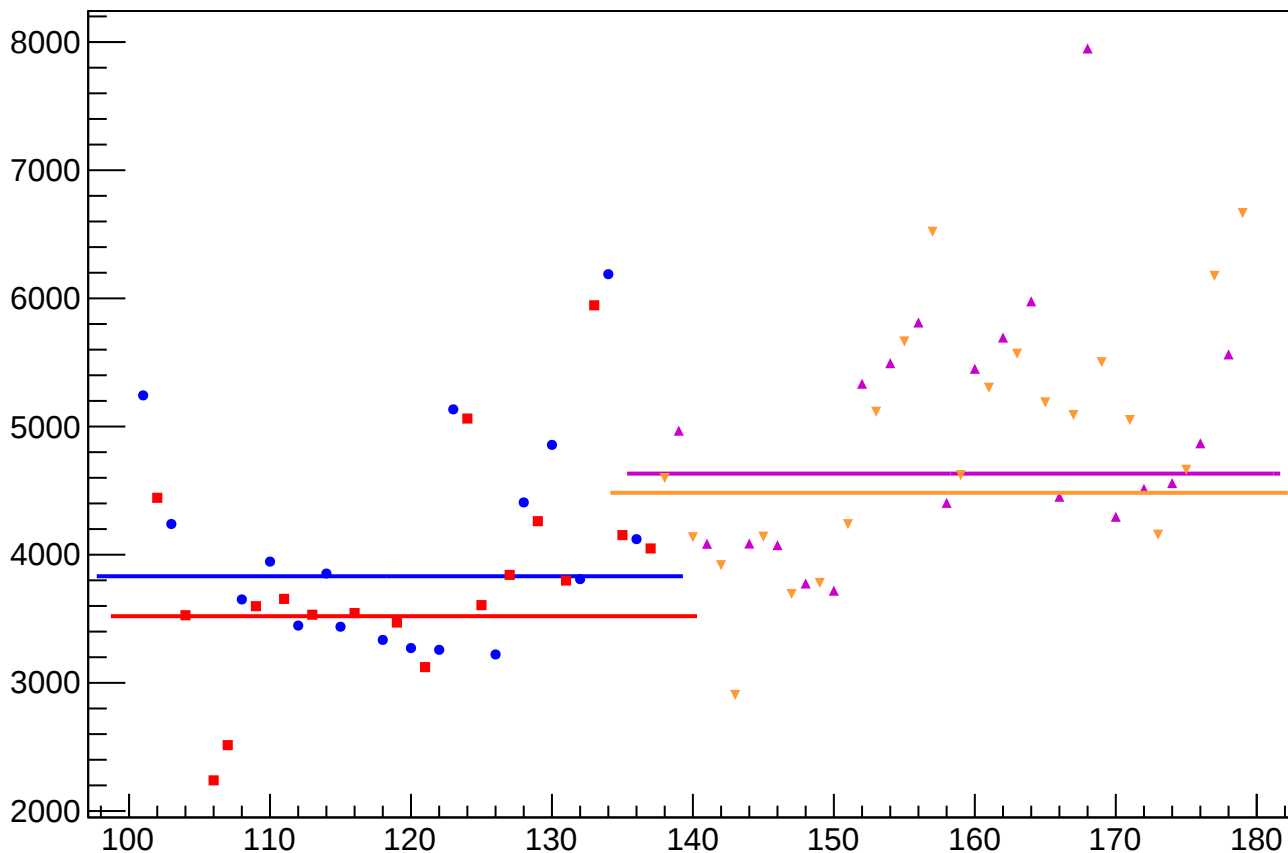
Right: -1155.658 $\pm$ 1017.952  $\chi^2$ /NDF: 28.3/34

In: -473.016 $\pm$ 933.024  $\chi^2$ /NDF: 29.7/36

Out: -44.312 $\pm$ 872.316  $\chi^2$ /NDF: 36.9/39

All: -244.264 $\pm$ 637.202  $\chi^2$ /NDF: 66.7/76

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



Right In: 3831.818+/-1.064  $\chi^2/\text{NDF}$ : 337707.1/16

Left Out: 4482.749+/-0.795  $\chi^2/\text{NDF}$ : 1377008.8/21

Right Out: 3520.188+/-0.969  $\chi^2/\text{NDF}$ : 544143.8/17

Left In: 4632.691+/-0.841  $\chi^2/\text{NDF}$ : 920244.9/19

Left: 4553.496+/-0.578  $\chi^2/\text{NDF}$ : 2314038.1/41

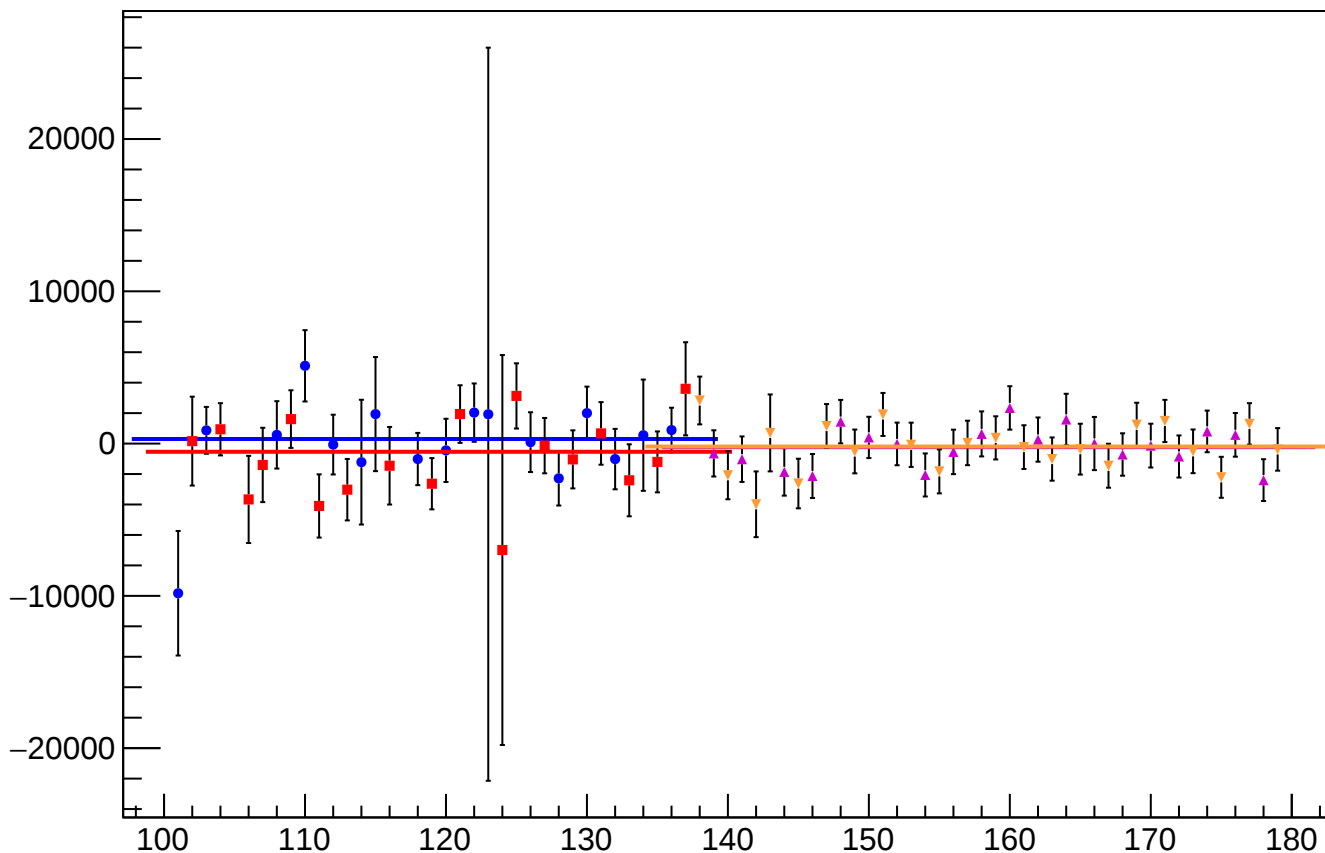
Right: 3661.502+/-0.716  $\chi^2/\text{NDF}$ : 928771.8/34

In: 4324.528+/-0.660  $\chi^2/\text{NDF}$ : 1606791.3/36

Out: 4095.405+/-0.615  $\chi^2/\text{NDF}$ : 2511084.7/39

All: 4201.853+/-0.450  $\chi^2/\text{NDF}$ : 4182453.2/76

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



Right In:  $301.968 \pm 512.834$   $\chi^2/\text{NDF}: 16.1/16$

Left Out:  $-194.536 \pm 318.631$   $\chi^2/\text{NDF}: 22.3/21$

Right Out:  $-537.727 \pm 508.684$   $\chi^2/\text{NDF}: 17.5/17$

Left In:  $-234.315 \pm 325.073$   $\chi^2/\text{NDF}: 15.1/19$

Left:  $-214.028 \pm 227.549$   $\chi^2/\text{NDF}: 37.4/41$

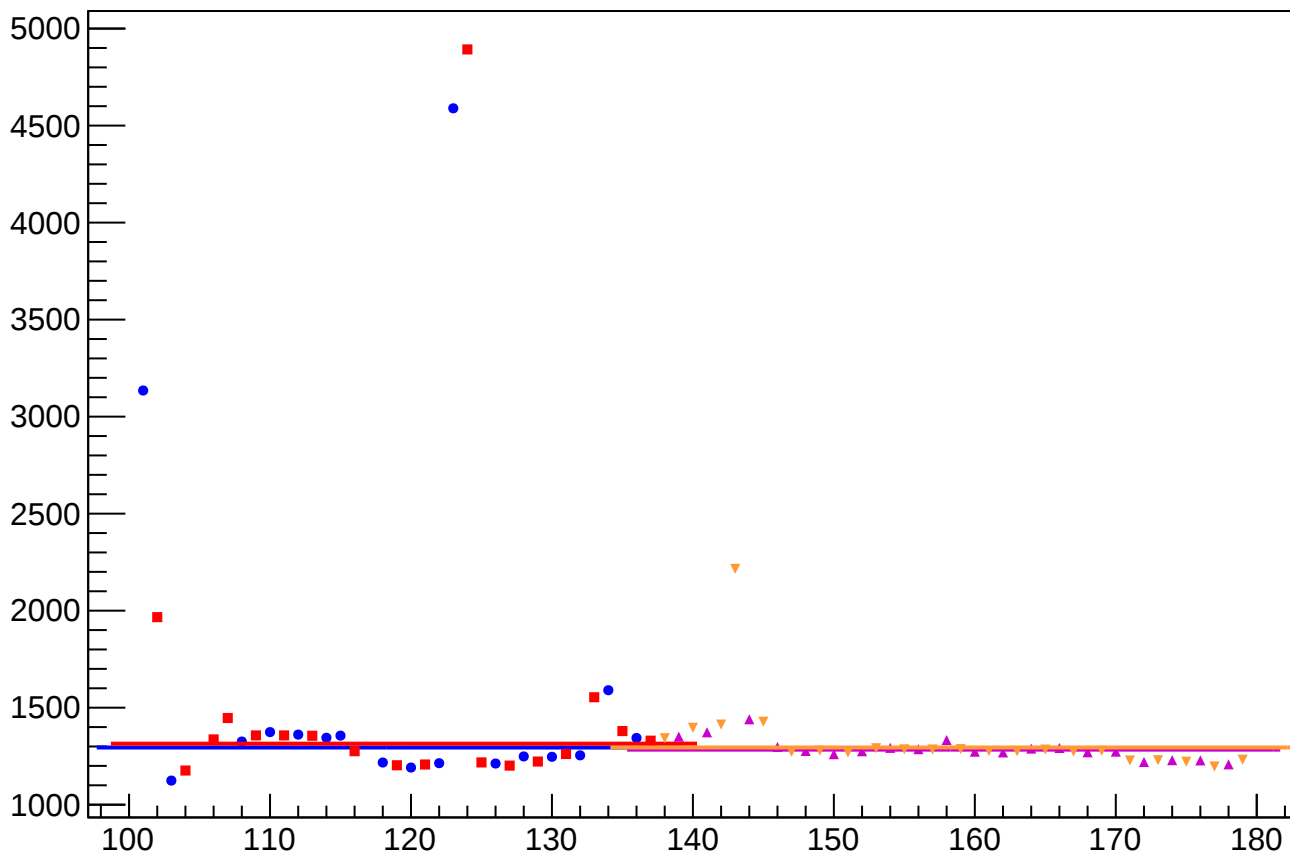
Right:  $-121.291 \pm 361.152$   $\chi^2/\text{NDF}: 34.9/34$

In:  $-80.600 \pm 274.560$   $\chi^2/\text{NDF}: 31.9/36$

Out:  $-291.245 \pm 270.030$   $\chi^2/\text{NDF}: 40.1/39$

All:  $-187.675 \pm 192.522$   $\chi^2/\text{NDF}: 72.3/76$

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



Right In: 1294.729 $\pm$ 0.363  $\chi^2$ /NDF: 507803.9/16

Left Out: 1294.832 $\pm$ 0.225  $\chi^2$ /NDF: 327384.5/21

Right Out: 1314.588 $\pm$ 0.360  $\chi^2$ /NDF: 333838.6/17

Left In: 1283.755 $\pm$ 0.230  $\chi^2$ /NDF: 51520.6/19

Left: 1289.404 $\pm$ 0.161  $\chi^2$ /NDF: 380089.5/41

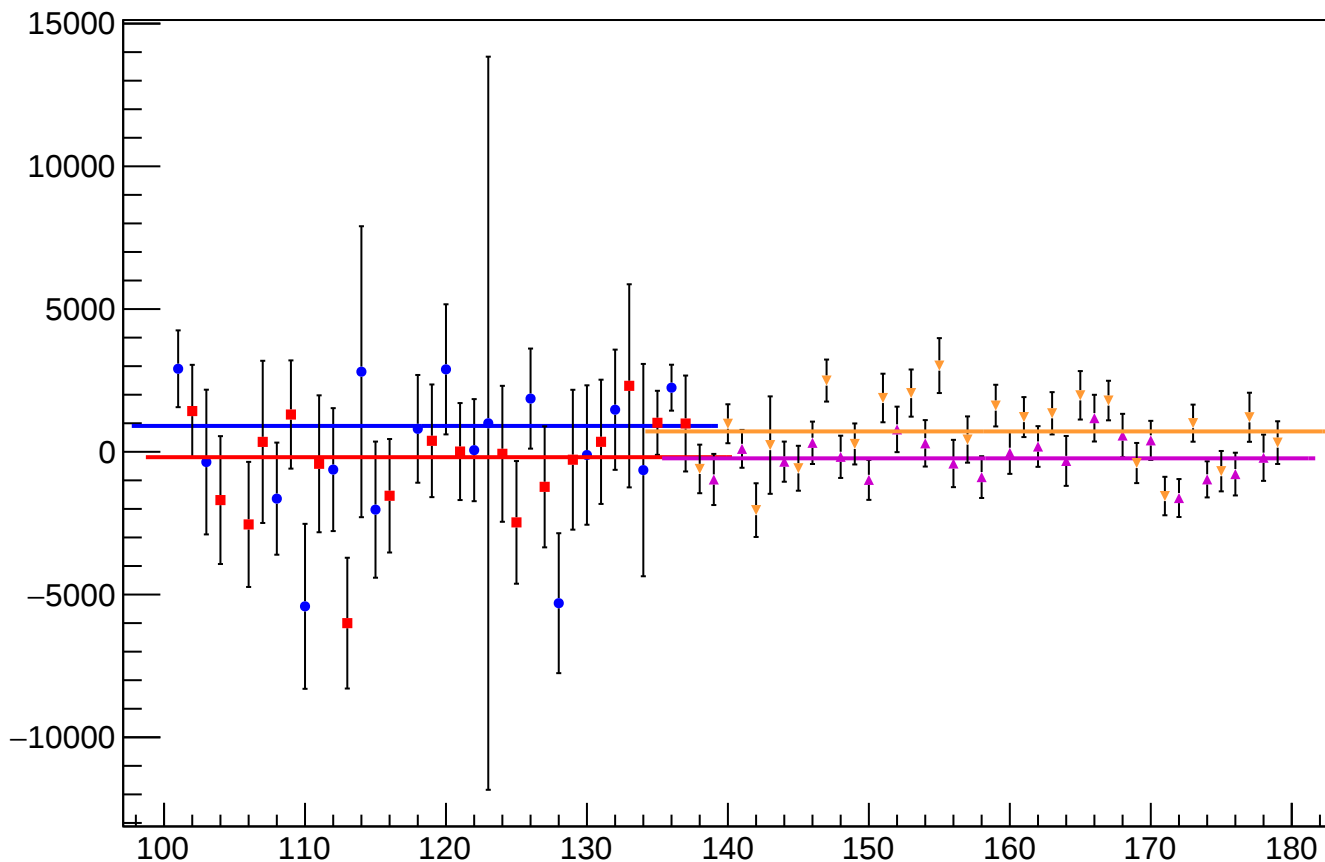
Right: 1304.740 $\pm$ 0.255  $\chi^2$ /NDF: 843154.3/34

In: 1286.900 $\pm$ 0.194  $\chi^2$ /NDF: 559977.9/36

Out: 1300.399 $\pm$ 0.191  $\chi^2$ /NDF: 663389.8/39

All: 1293.762 $\pm$ 0.136  $\chi^2$ /NDF: 1225825.2/76

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



Right In: 906.688 $\pm$ 455.840  $\chi^2/\text{NDF}$ : 22.0/16

Left Out: 714.483 $\pm$ 164.847  $\chi^2/\text{NDF}$ : 56.4/21

Right Out: -188.170 $\pm$ 464.537  $\chi^2/\text{NDF}$ : 13.8/17

Left In: -228.635 $\pm$ 166.245  $\chi^2/\text{NDF}$ : 17.2/19

Left: 246.905 $\pm$ 117.056  $\chi^2/\text{NDF}$ : 89.8/41

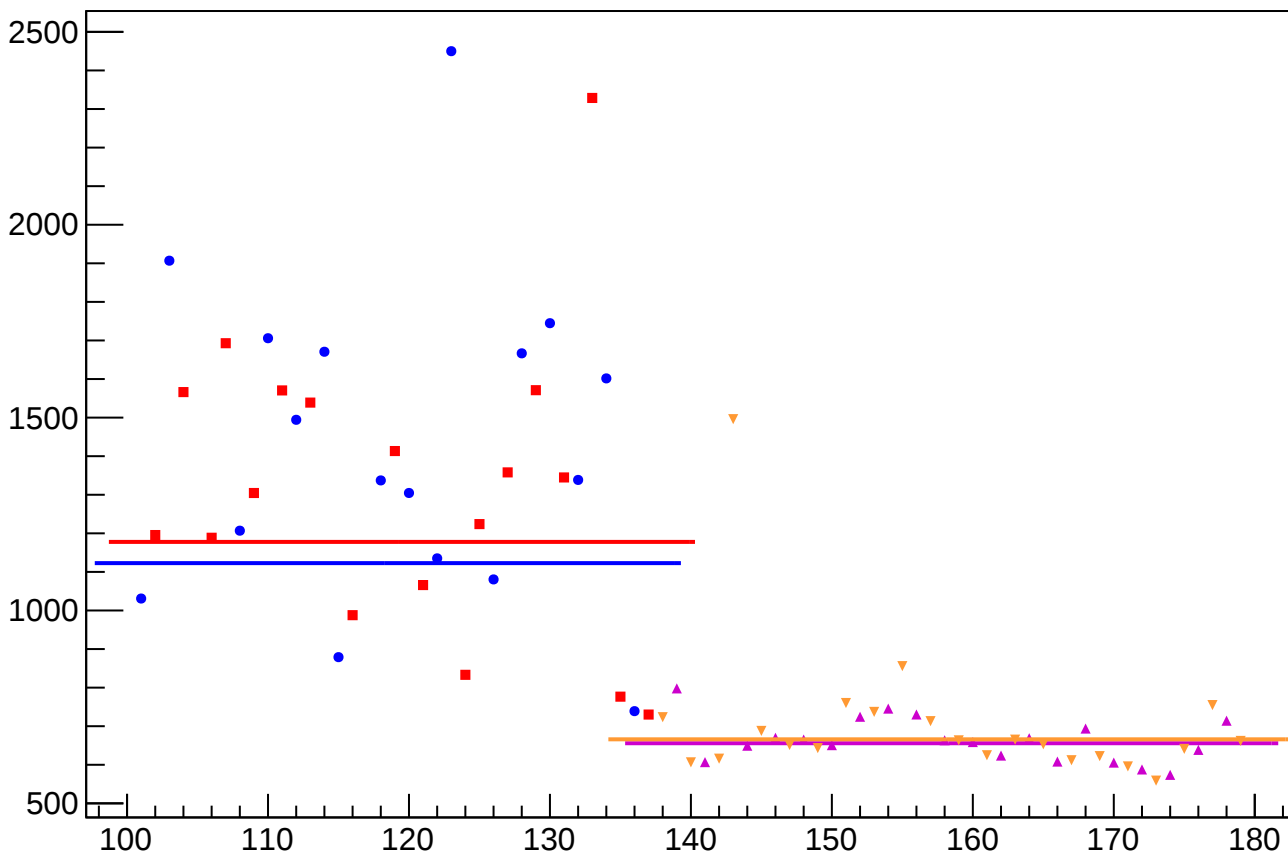
Right: 369.604 $\pm$ 325.359  $\chi^2/\text{NDF}$ : 38.7/34

In: -95.357 $\pm$ 156.182  $\chi^2/\text{NDF}$ : 44.6/36

Out: 613.527 $\pm$ 155.355  $\chi^2/\text{NDF}$ : 73.6/39

All: 260.967 $\pm$ 110.144  $\chi^2/\text{NDF}$ : 128.6/76

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



Right In: 1122.773+/-0.322  $\chi^2/\text{NDF}$ : 1187996.4/16

Left Out: 665.984+/-0.117  $\chi^2/\text{NDF}$ : 758569.7/21

Right Out: 1177.797+/-0.328  $\chi^2/\text{NDF}$ : 1021710.1/17

Left In: 655.861+/-0.118  $\chi^2/\text{NDF}$ : 211229.5/19

Left: 660.965+/-0.083  $\chi^2/\text{NDF}$ : 973538.0/41

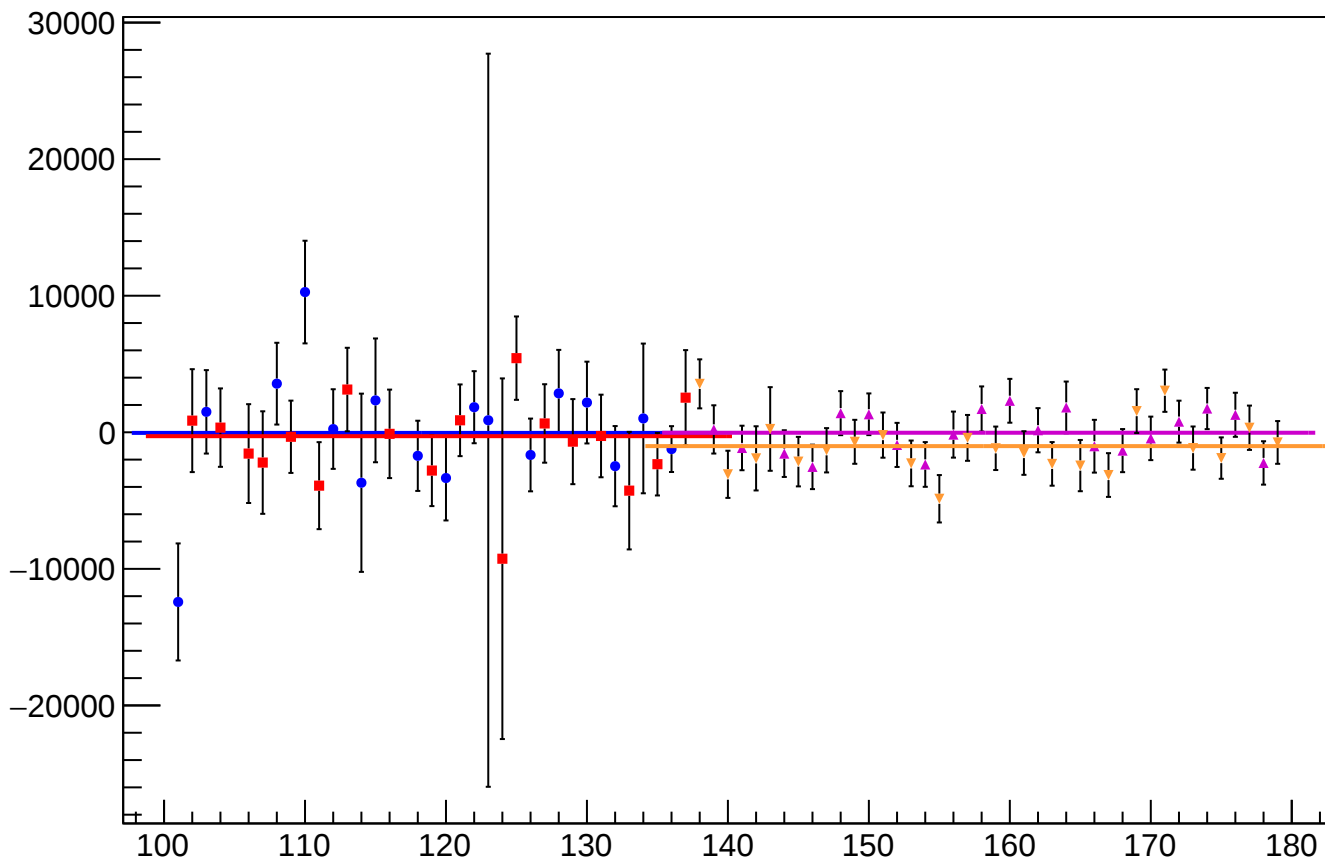
Right: 1149.765+/-0.230  $\chi^2/\text{NDF}$ : 2224002.1/34

In: 710.673+/-0.110  $\chi^2/\text{NDF}$ : 3251232.5/36

Out: 723.227+/-0.110  $\chi^2/\text{NDF}$ : 3936545.9/39

All: 716.984+/-0.078  $\chi^2/\text{NDF}$ : 7194273.7/76

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



Right In: -44.367 $\pm$ 747.588  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -1012.458 $\pm$ 360.478  $\chi^2/\text{NDF}$ : 28.1/21

Right Out: -285.373 $\pm$ 735.391  $\chi^2/\text{NDF}$ : 10.6/17

Left In: -33.019 $\pm$ 366.079  $\chi^2/\text{NDF}$ : 17.0/19

Left: -530.289 $\pm$ 256.854  $\chi^2/\text{NDF}$ : 48.8/41

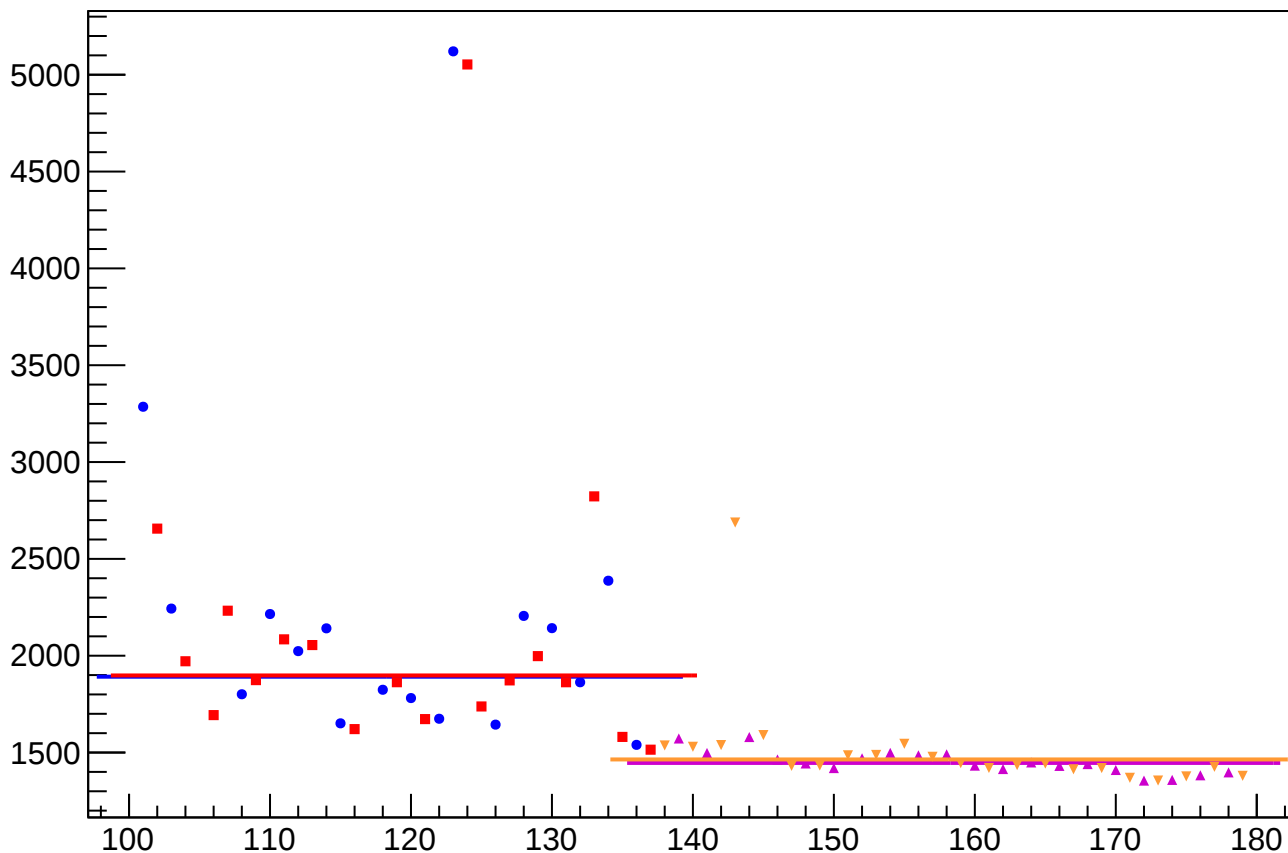
Right: -166.852 $\pm$ 524.259  $\chi^2/\text{NDF}$ : 33.9/34

In: -35.214 $\pm$ 328.777  $\chi^2/\text{NDF}$ : 40.2/36

Out: -871.598 $\pm$ 323.682  $\chi^2/\text{NDF}$ : 39.5/39

All: -459.937 $\pm$ 230.658  $\chi^2/\text{NDF}$ : 83.0/76

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



Right In: 1891.668 $\pm$ 0.529  $\chi^2$ /NDF: 469088.3/16

Left Out: 1464.313 $\pm$ 0.255  $\chi^2$ /NDF: 380629.1/21

Right Out: 1898.010 $\pm$ 0.520  $\chi^2$ /NDF: 423694.9/17

Left In: 1446.343 $\pm$ 0.259  $\chi^2$ /NDF: 51209.2/19

Left: 1455.466 $\pm$ 0.182  $\chi^2$ /NDF: 434285.0/41

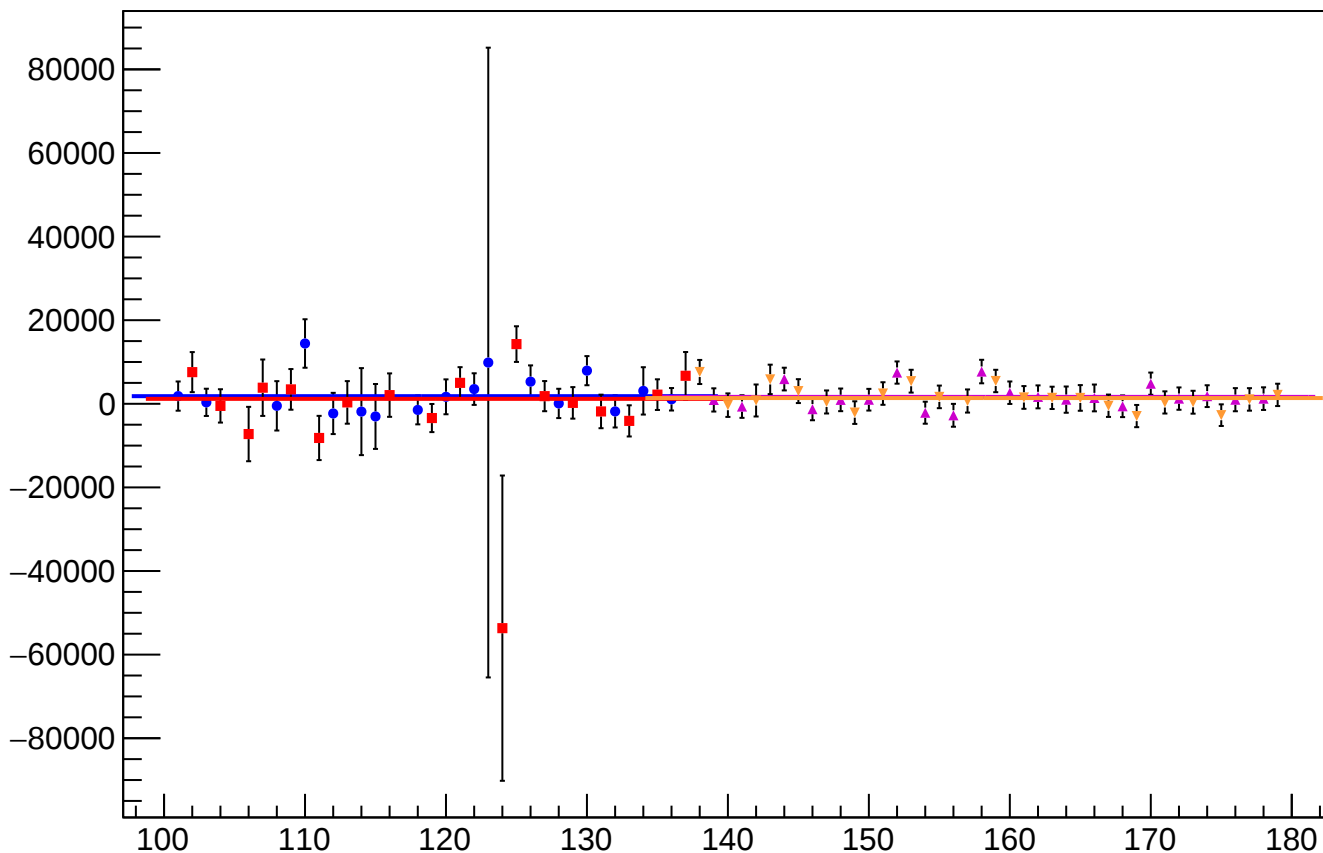
Right: 1894.891 $\pm$ 0.371  $\chi^2$ /NDF: 892856.4/34

In: 1532.474 $\pm$ 0.232  $\chi^2$ /NDF: 1092719.6/36

Out: 1548.336 $\pm$ 0.229  $\chi^2$ /NDF: 1365186.8/39

All: 1540.529 $\pm$ 0.163  $\chi^2$ /NDF: 2460270.3/76

# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1825.042 $\pm$ 1010.167  $\chi^2$ /NDF: 12.6/16

Left Out: 1373.482 $\pm$ 594.253  $\chi^2$ /NDF:19.5/21

Right Out: 1182.804 $\pm$ 1049.924  $\chi^2$ /NDF: 25.5/17

Left In: 1653.194 $\pm$ 609.909  $\chi^2$ /NDF:21.2/19

Left: 1509.702 $\pm$ 425.628  $\chi^2$ /NDF: 40.8/41

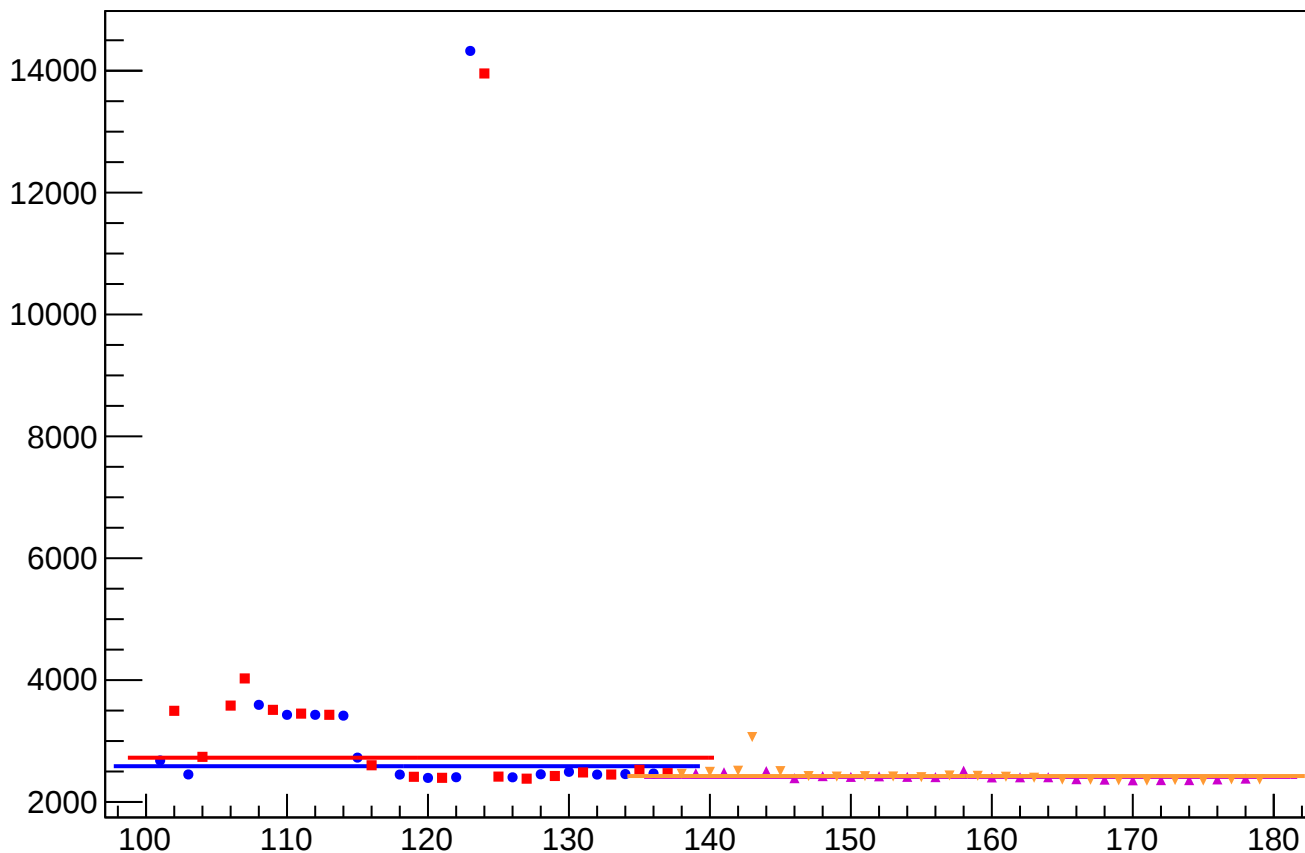
Right: 1516.312 $\pm$ 727.946  $\chi^2$ /NDF: 38.2/34

In: 1699.103 $\pm$ 522.122  $\chi^2$ /NDF:33.8/36

Out: 1327.218 $\pm$ 517.162  $\chi^2$ /NDF:45.0/39

All: 1511.386 $\pm$ 367.430  $\chi^2$ /NDF: 79.0/76

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2586.978 $\pm$ 0.714  $\chi^2$ /NDF: 254112.7/16

Left Out: 2425.588 $\pm$ 0.420  $\chi^2$ /NDF: 80078.4/21

Right Out: 2726.457 $\pm$ 0.742  $\chi^2$ /NDF: 580850.1/17

Left In: 2411.136 $\pm$ 0.431  $\chi^2$ /NDF: 11851.6/19

Left: 2418.550 $\pm$ 0.301  $\chi^2$ /NDF: 92506.0/41

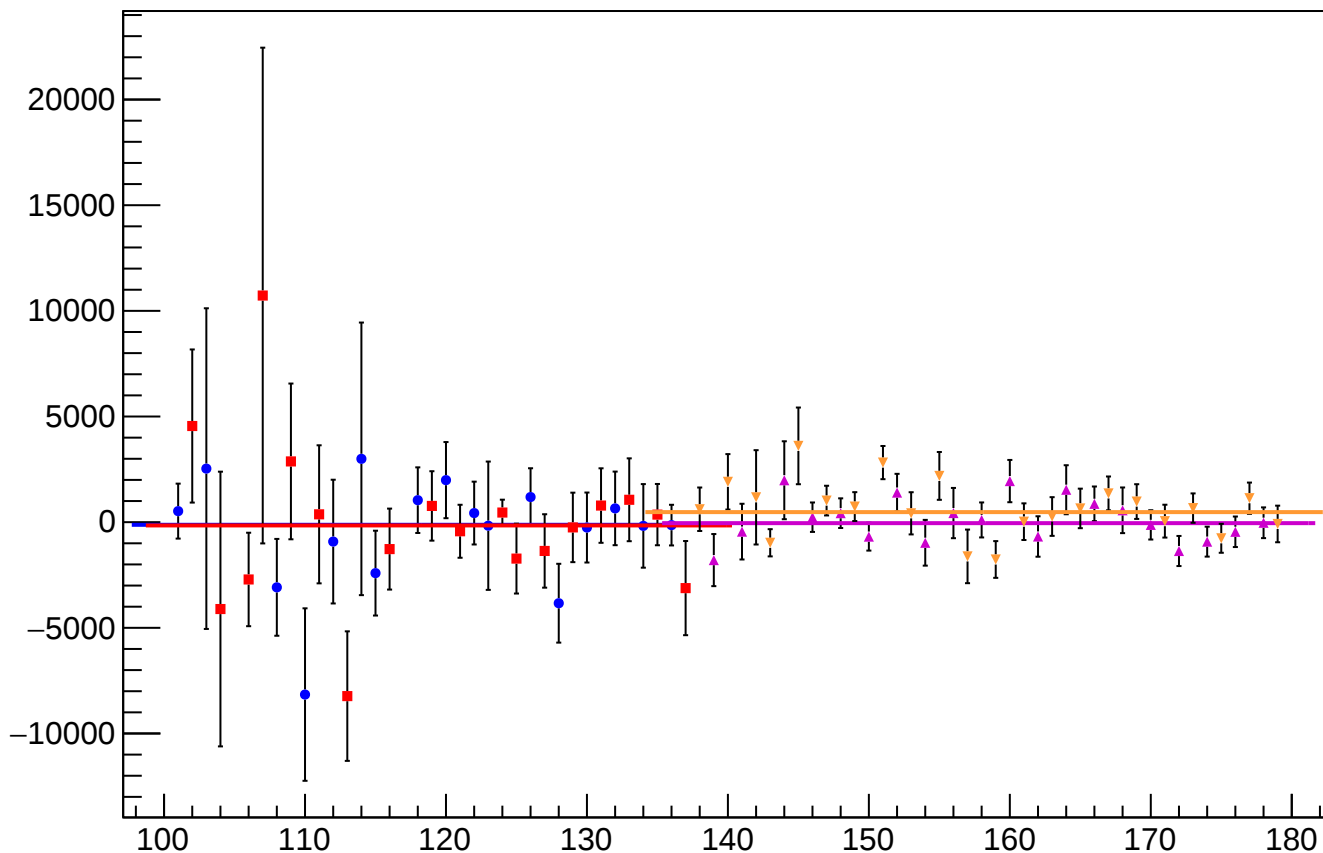
Right: 2654.027 $\pm$ 0.515  $\chi^2$ /NDF: 853292.0/34

In: 2458.113 $\pm$ 0.369  $\chi^2$ /NDF: 310376.5/36

Out: 2498.586 $\pm$ 0.366  $\chi^2$ /NDF: 785316.9/39

All: 2478.543 $\pm$ 0.260  $\chi^2$ /NDF: 1101759.7/76

asym\_atl1\_correction\_mean vs Slug, Sign Corrected



Right In:  $-124.472 \pm 430.760$   $\chi^2/\text{NDF}$ : 14.7/16

Left Out:  $476.197 \pm 183.546$   $\chi^2/\text{NDF}$ : 37.5/21

Right Out:  $-154.579 \pm 380.922$   $\chi^2/\text{NDF}$ : 17.6/17

Left In:  $-46.126 \pm 191.661$   $\chi^2/\text{NDF}$ : 21.6/19

Left:  $226.327 \pm 132.563$   $\chi^2/\text{NDF}$ : 62.9/41

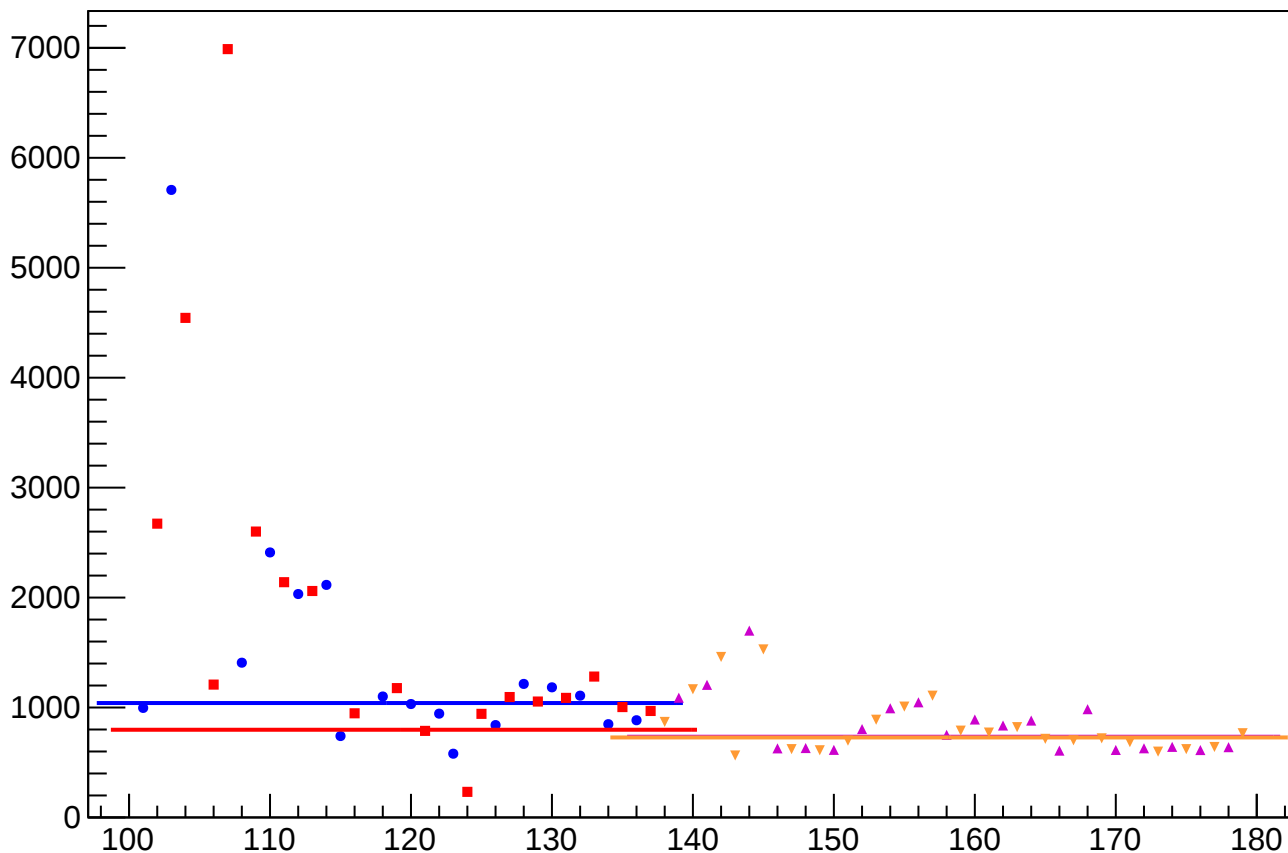
Right:  $-141.367 \pm 285.354$   $\chi^2/\text{NDF}$ : 32.3/34

In:  $-59.073 \pm 175.110$   $\chi^2/\text{NDF}$ : 36.3/36

Out:  $357.341 \pm 165.352$   $\chi^2/\text{NDF}$ : 57.3/39

All:  $161.059 \pm 120.223$   $\chi^2/\text{NDF}$ : 96.6/76

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



Right In: 1040.760+/-0.305  $\chi^2/\text{NDF}$ : 1573034.8/16

Left Out: 727.704+/-0.130  $\chi^2/\text{NDF}$ : 1650312.9/21

Right Out: 797.732+/-0.269  $\chi^2/\text{NDF}$ : 5174332.0/17

Left In: 734.200+/-0.136  $\chi^2/\text{NDF}$ : 1877457.2/19

Left: 730.812+/-0.094  $\chi^2/\text{NDF}$ : 3528968.1/41

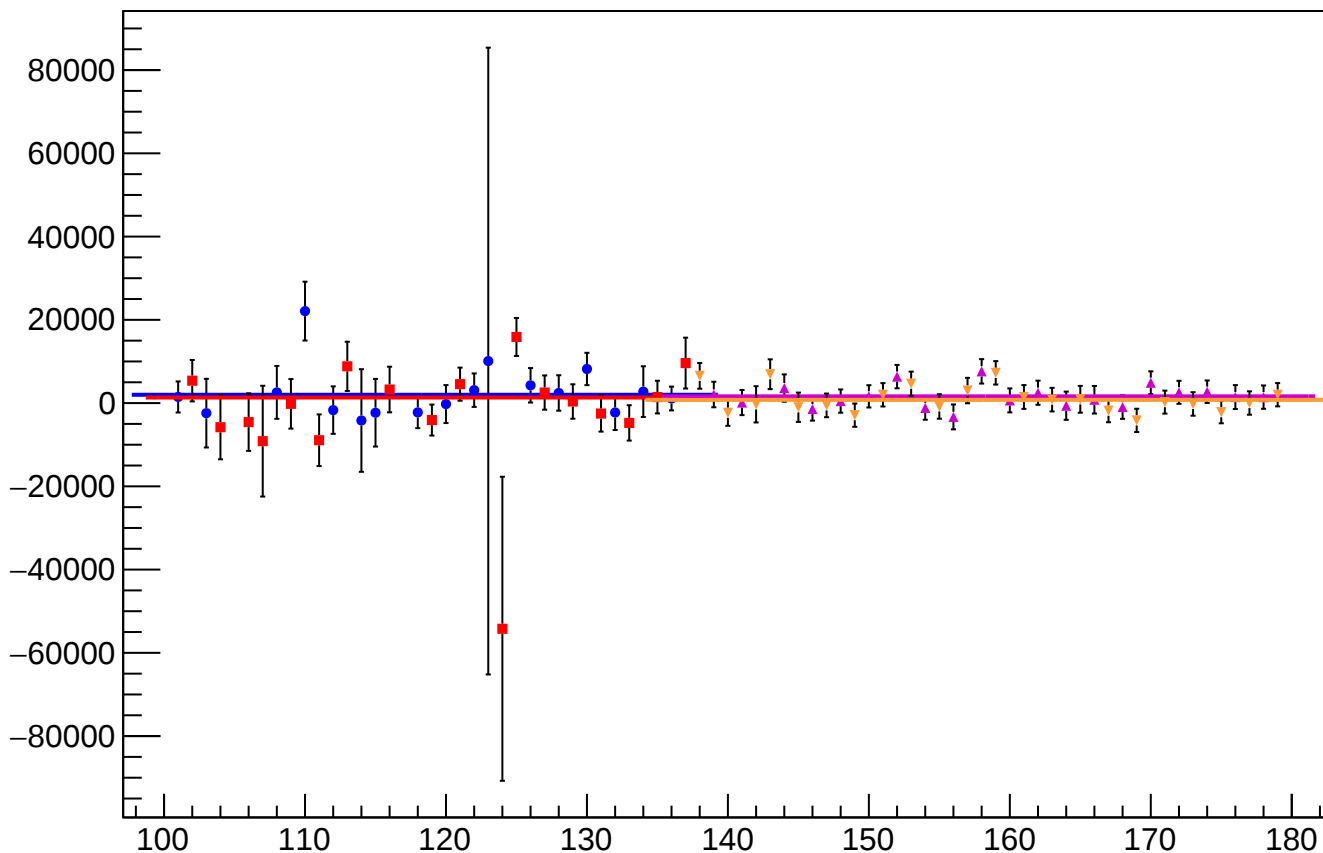
Right: 904.380+/-0.202  $\chi^2/\text{NDF}$ : 7104613.1/34

In: 784.860+/-0.124  $\chi^2/\text{NDF}$ : 4296054.5/36

Out: 740.900+/-0.117  $\chi^2/\text{NDF}$ : 6879500.1/39

All: 761.621+/-0.085  $\chi^2/\text{NDF}$ : 11242187.1/76

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1996.263+/-1155.054  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 781.304+/-630.649  $\chi^2/\text{NDF}$ : 23.5/21

Right Out: 1336.627+/-1193.730  $\chi^2/\text{NDF}$ : 27.5/17

Left In: 1618.898+/-648.660  $\chi^2/\text{NDF}$ : 16.0/19

Left: 1188.311+/-452.169  $\chi^2/\text{NDF}$ : 40.3/41

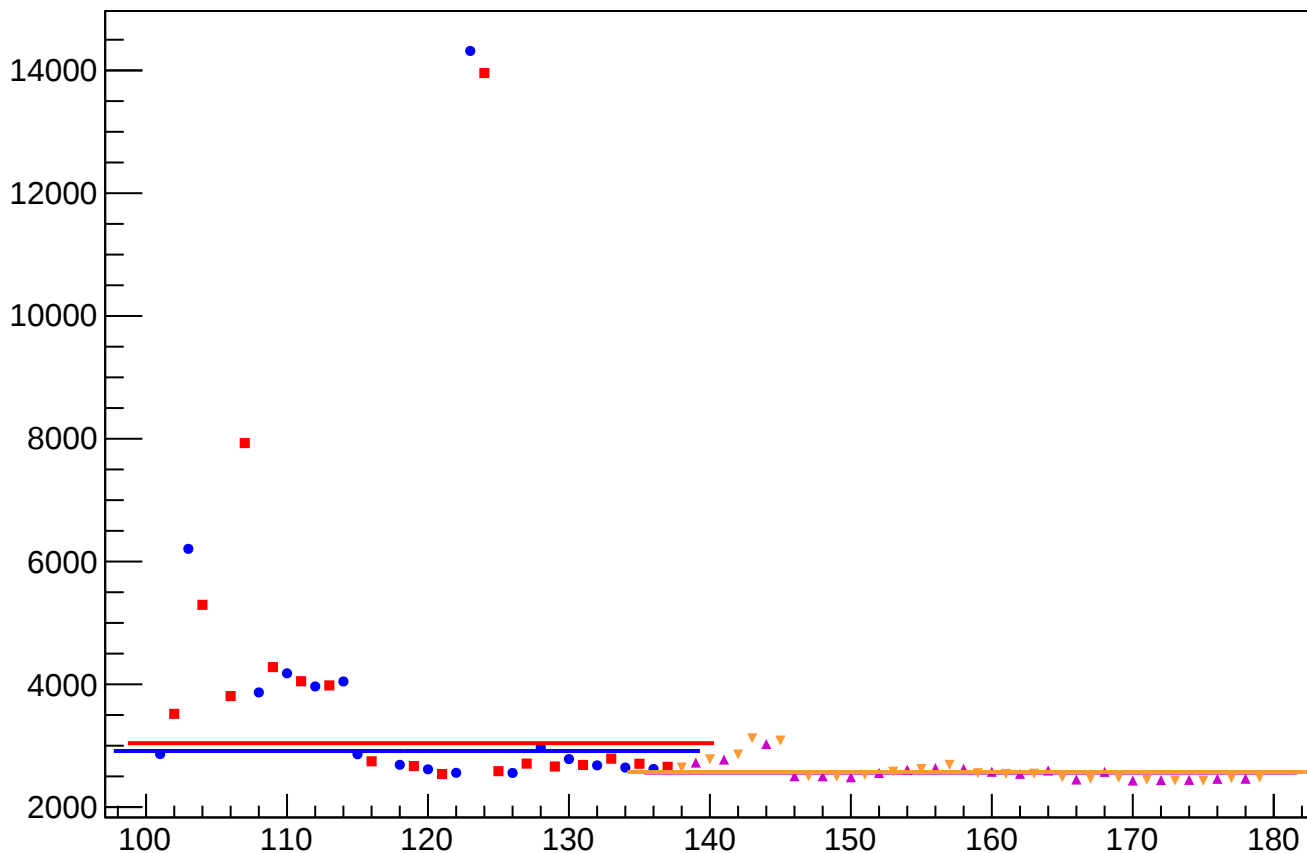
Right: 1677.304+/-830.083  $\chi^2/\text{NDF}$ : 42.6/34

In: 1709.375+/-565.577  $\chi^2/\text{NDF}$ : 31.0/36

Out: 902.477+/-557.616  $\chi^2/\text{NDF}$ : 51.1/39

All: 1300.207+/-397.079  $\chi^2/\text{NDF}$ : 83.1/76

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2913.875+/-0.817  $\chi^2/\text{NDF}$ : 638984.6/16

Left Out: 2571.465+/-0.446  $\chi^2/\text{NDF}$ : 140756.0/21

Right Out: 3041.227+/-0.844  $\chi^2/\text{NDF}$ : 1003583.4/17

Left In: 2561.238+/-0.459  $\chi^2/\text{NDF}$ : 81715.1/19

Left: 2566.496+/-0.320  $\chi^2/\text{NDF}$ : 222726.7/41

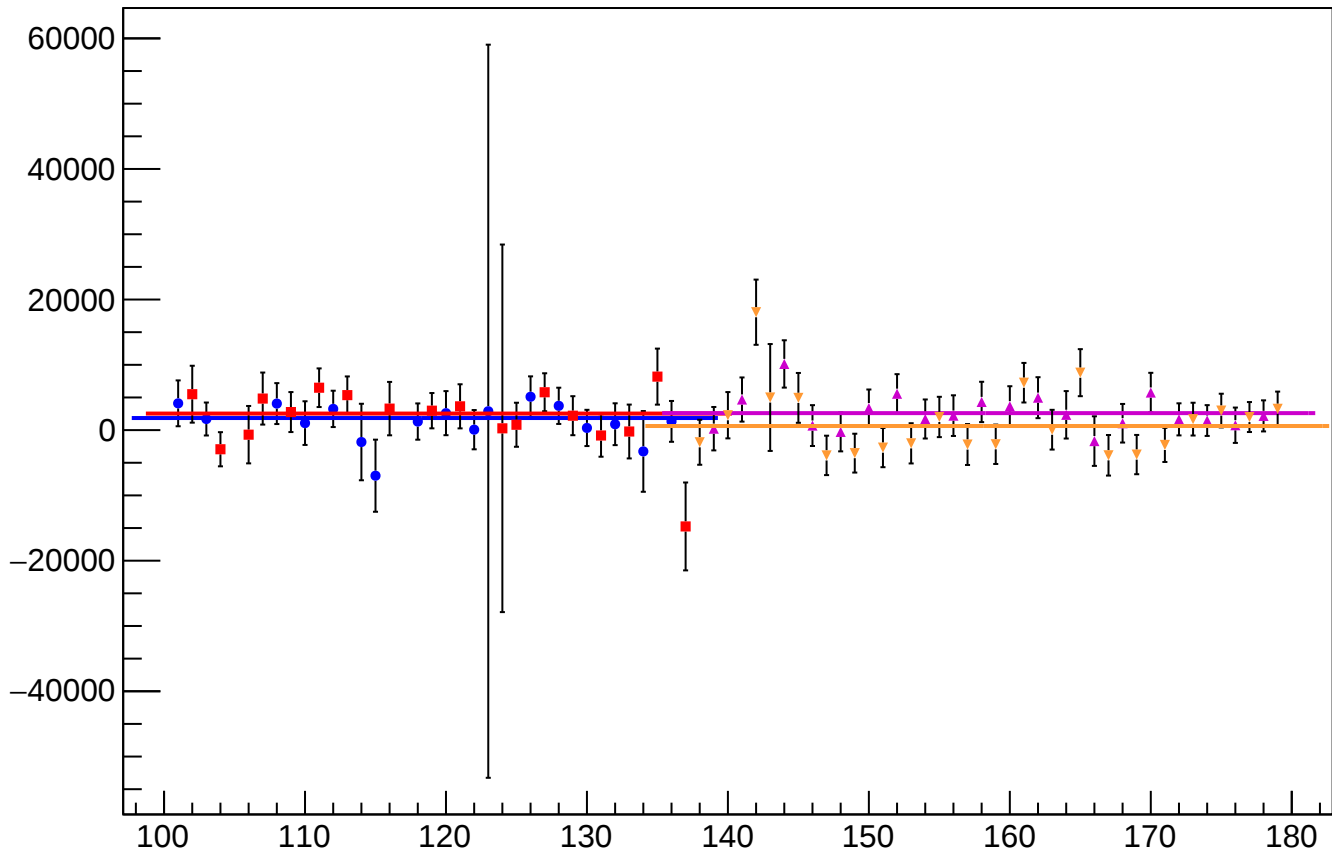
Right: 2975.455+/-0.587  $\chi^2/\text{NDF}$ : 1654324.2/34

In: 2645.787+/-0.400  $\chi^2/\text{NDF}$ : 862419.8/36

Out: 2673.968+/-0.394  $\chi^2/\text{NDF}$ : 1386480.6/39

All: 2660.077+/-0.281  $\chi^2/\text{NDF}$ : 2251418.4/76

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In:  $1850.093 \pm 806.760$   $\chi^2/\text{NDF}$ : 7.3/16

Left Out:  $628.320 \pm 653.672$   $\chi^2/\text{NDF}$ : 40.3/21

Right Out:  $2535.163 \pm 819.322$   $\chi^2/\text{NDF}$ : 20.0/17

Left In:  $2602.251 \pm 665.383$   $\chi^2/\text{NDF}$ : 12.2/19

Left:  $1597.762 \pm 466.301$   $\chi^2/\text{NDF}$ : 56.9/41

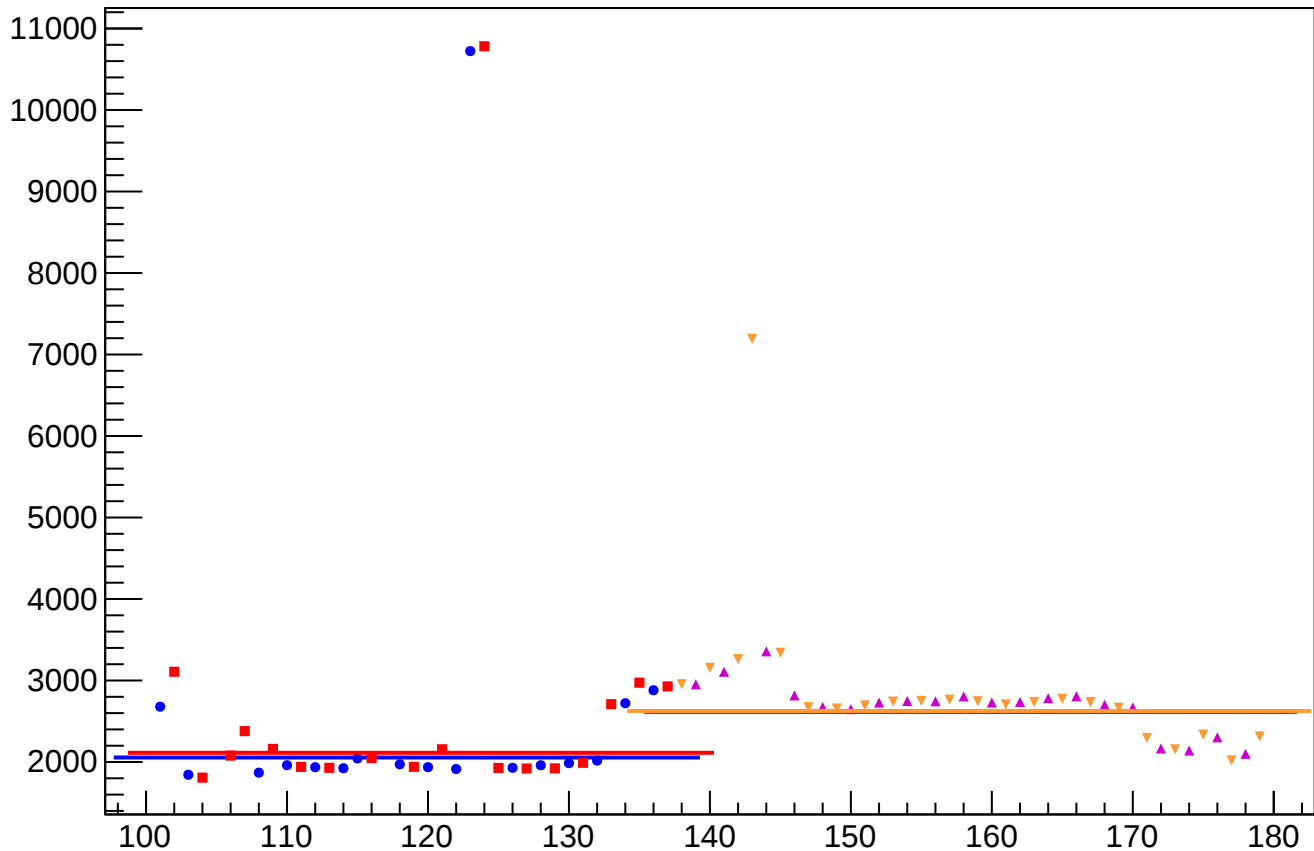
Right:  $2187.336 \pm 574.855$   $\chi^2/\text{NDF}$ : 27.6/34

In:  $2297.745 \pm 513.319$   $\chi^2/\text{NDF}$ : 20.0/36

Out:  $1369.979 \pm 510.975$   $\chi^2/\text{NDF}$ : 63.6/39

All:  $1831.739 \pm 362.140$   $\chi^2/\text{NDF}$ : 85.2/76

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2055.447 $\pm$ 0.570  $\chi^2/\text{NDF}$ : 316383.7/16

Left Out: 2626.729 $\pm$ 0.462  $\chi^2/\text{NDF}$ : 1107791.1/21

Right Out: 2113.304 $\pm$ 0.578  $\chi^2/\text{NDF}$ : 532006.4/17

Left In: 2613.637 $\pm$ 0.470  $\chi^2/\text{NDF}$ : 460020.3/19

Left: 2620.299 $\pm$ 0.330  $\chi^2/\text{NDF}$ : 1568205.4/41

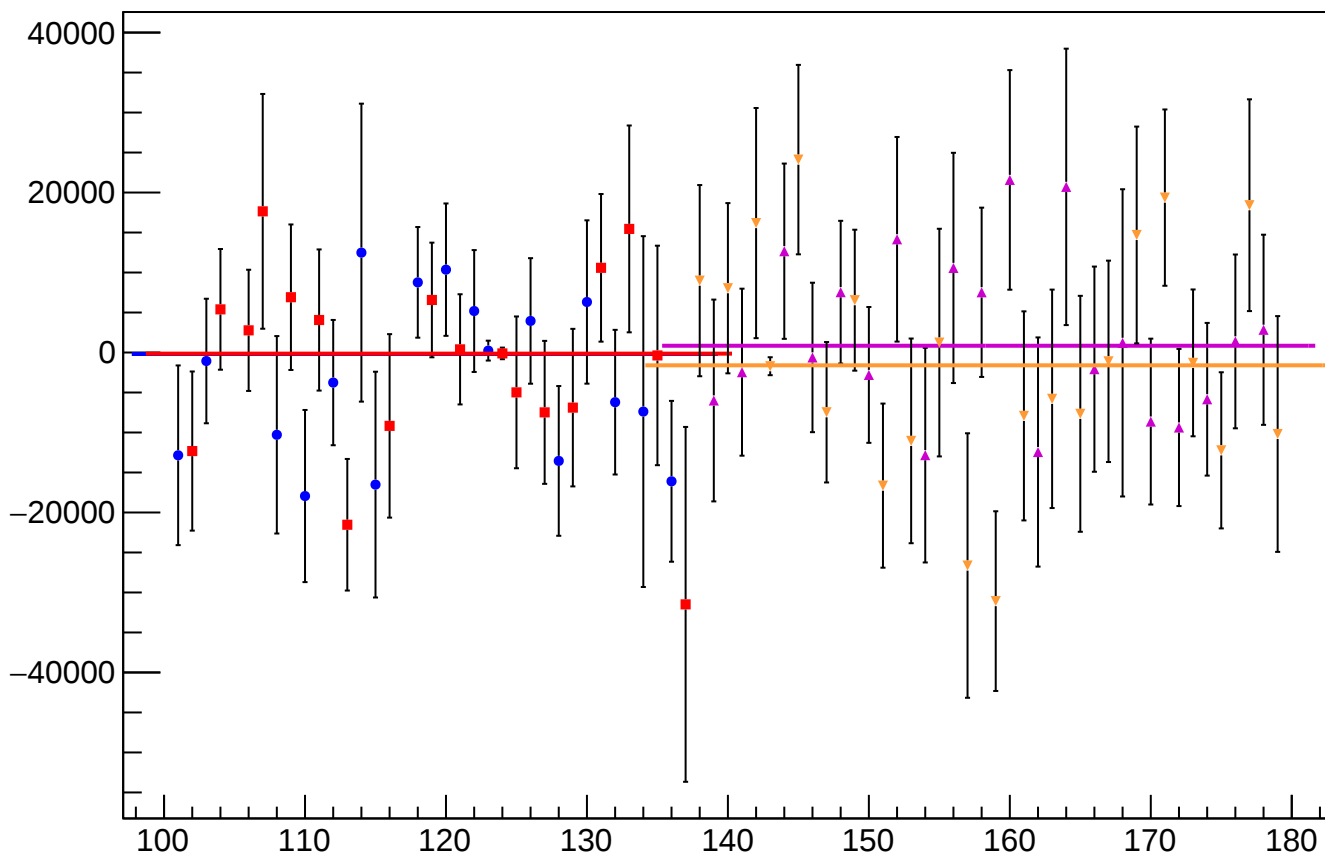
Right: 2083.972 $\pm$ 0.406  $\chi^2/\text{NDF}$ : 853461.4/34

In: 2387.658 $\pm$ 0.363  $\chi^2/\text{NDF}$ : 1346224.9/36

Out: 2426.667 $\pm$ 0.361  $\chi^2/\text{NDF}$ : 2120582.3/39

All: 2407.263 $\pm$ 0.256  $\chi^2/\text{NDF}$ : 3472612.3/76

asym\_atl2\_correction\_mean vs Slug, Sign Corrected



Right In: -185.246+/-1100.780  $\chi^2/\text{NDF}$ : 16.4/16

Left Out: -1600.533+/-1026.934  $\chi^2/\text{NDF}$ : 30.4/21

Right Out: -141.935+/-690.979  $\chi^2/\text{NDF}$ : 19.0/17

Left In: 846.138+/-2534.948  $\chi^2/\text{NDF}$ : 12.3/19

Left: -1255.606+/-951.798  $\chi^2/\text{NDF}$ : 43.5/41

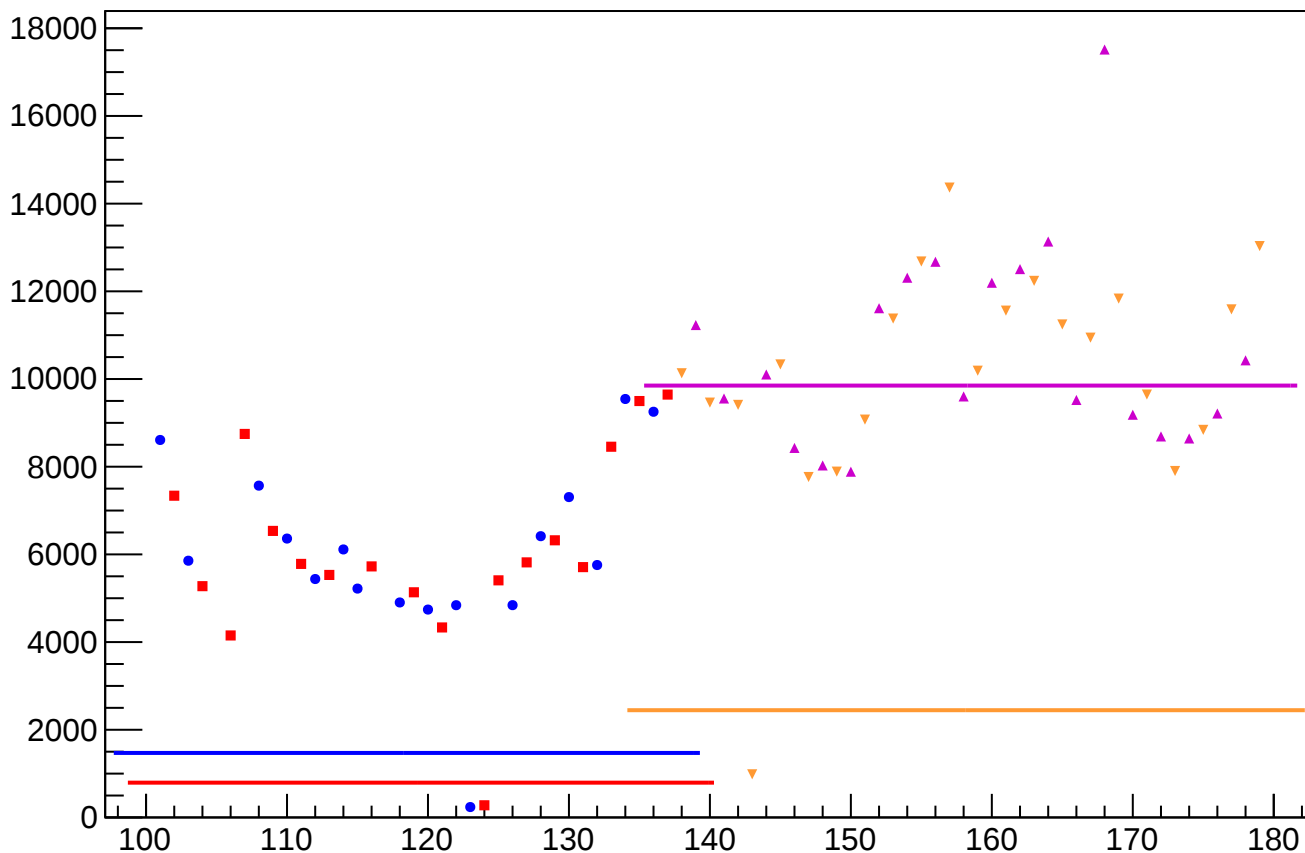
Right: -154.177+/-585.233  $\chi^2/\text{NDF}$ : 35.3/34

In: -21.617+/-1009.692  $\chi^2/\text{NDF}$ : 28.8/36

Out: -596.497+/-573.287  $\chi^2/\text{NDF}$ : 50.8/39

All: -456.349+/-498.533  $\chi^2/\text{NDF}$ : 79.8/76

asym\_atl2\_correction\_rms vs Slug, Sign Corrected



Right In: 1471.609 $\pm$ 0.778  $\chi^2$ /NDF: 9788255.4/16

Left Out: 2446.167 $\pm$ 0.726  $\chi^2$ /NDF: 21766001.3/21

Right Out: 793.659 $\pm$ 0.489  $\chi^2$ /NDF: 11422584.5/17

Left In: 9850.152 $\pm$ 1.792  $\chi^2$ /NDF: 1045775.5/19

Left: 3489.966 $\pm$ 0.673  $\chi^2$ /NDF: 37468174.6/41

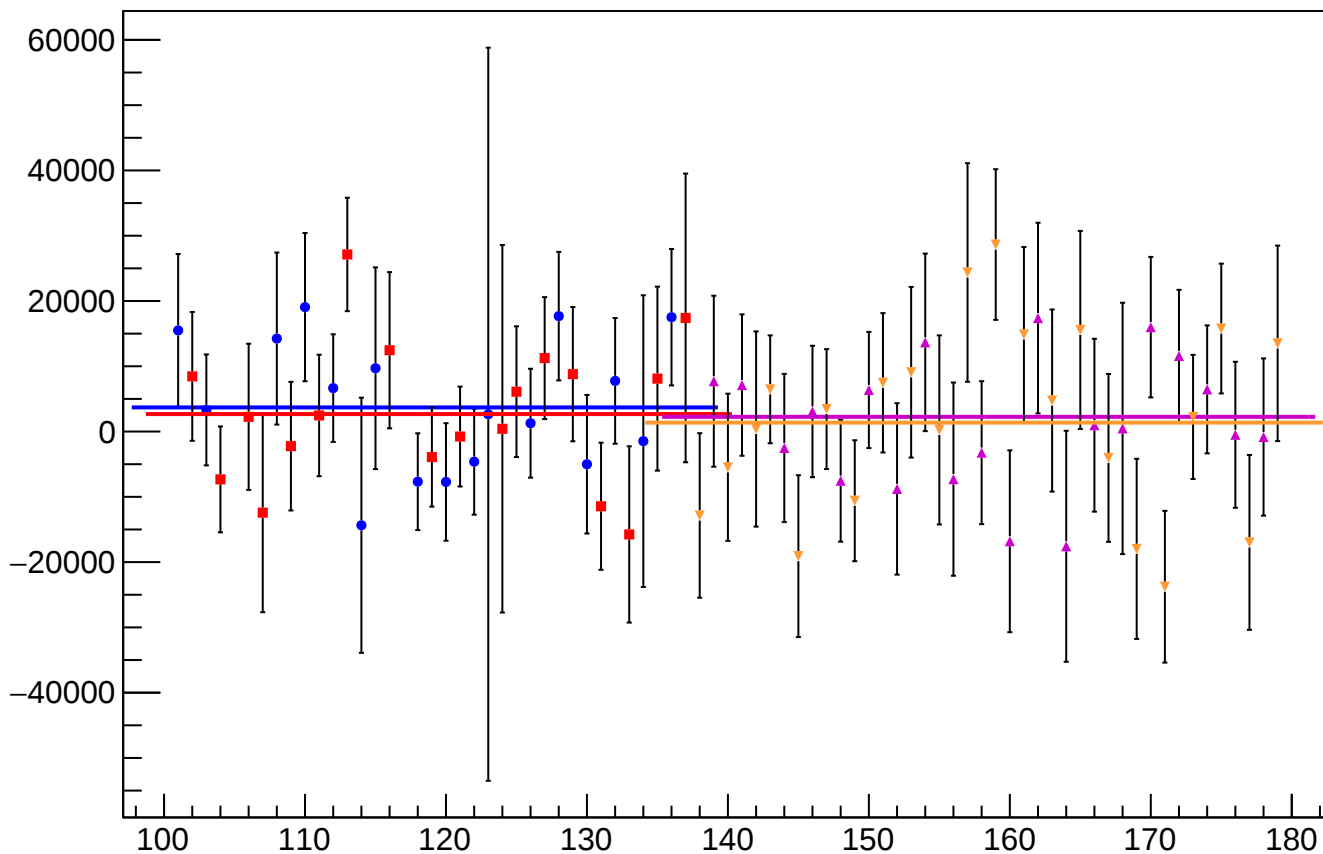
Right: 985.285 $\pm$ 0.414  $\chi^2$ /NDF: 21755031.4/34

In: 2800.863 $\pm$ 0.714  $\chi^2$ /NDF: 29216581.3/36

Out: 1308.653 $\pm$ 0.405  $\chi^2$ /NDF: 36753466.6/39

All: 1672.434 $\pm$ 0.353  $\chi^2$ /NDF: 69273413.7/77

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3698.440+/-2517.949  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 1373.794+/-2509.726  $\chi^2/\text{NDF}$ : 28.0/21

Right Out: 2679.483+/-2428.648  $\chi^2/\text{NDF}$ : 18.5/17

Left In: 2253.701+/-2623.149  $\chi^2/\text{NDF}$ : 11.0/19

Left: 1794.313+/-1813.417  $\chi^2/\text{NDF}$ : 39.1/41

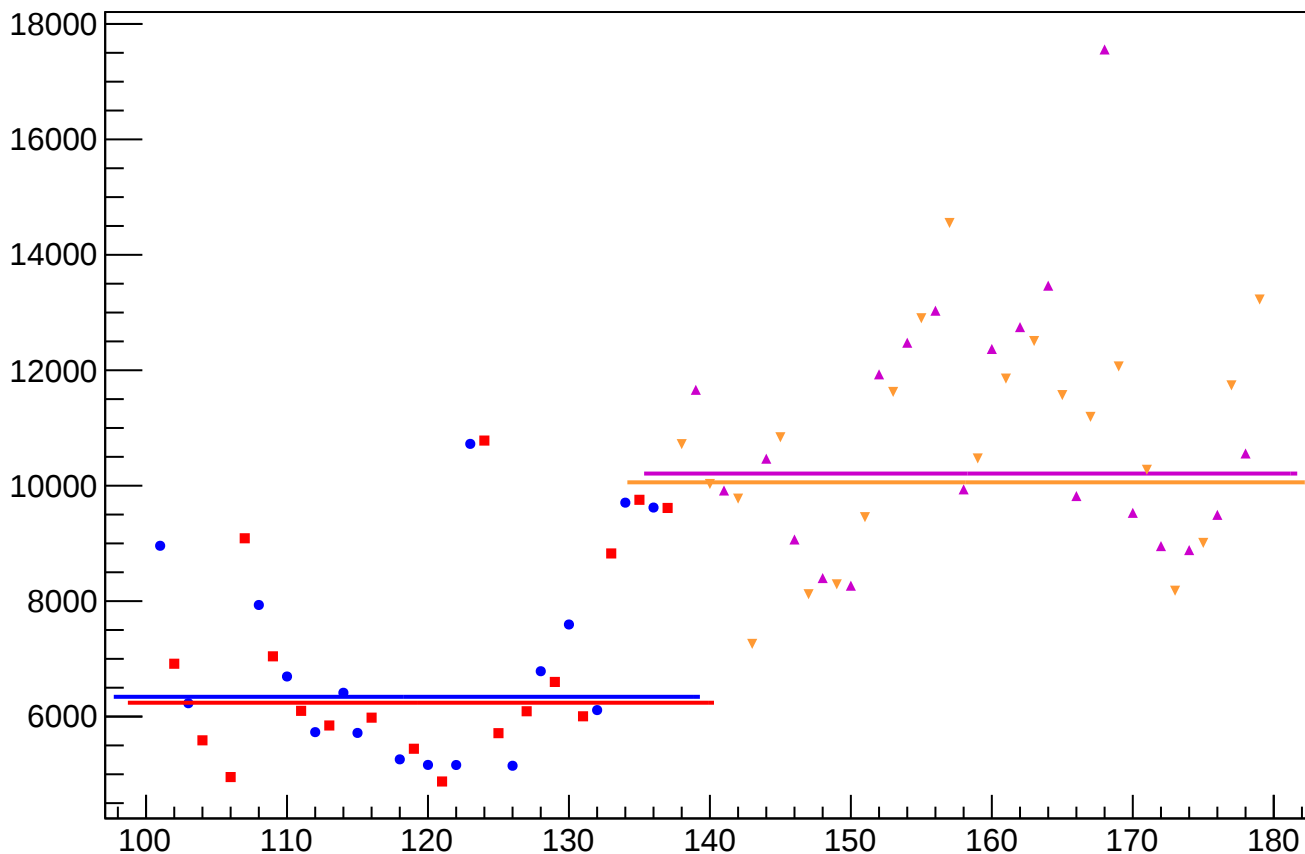
Right: 3170.572+/-1748.031  $\chi^2/\text{NDF}$ : 33.0/34

In: 3005.621+/-1816.511  $\chi^2/\text{NDF}$ : 25.5/36

Out: 2048.069+/-1745.273  $\chi^2/\text{NDF}$ : 46.7/39

All: 2507.701+/-1258.525  $\chi^2/\text{NDF}$ : 72.4/76

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6342.327+/-1.780  $\chi^2/\text{NDF}$ : 593668.9/16

Left Out: 10058.296+/-1.775  $\chi^2/\text{NDF}$ : 1061855.5/21

Right Out: 6239.726+/-1.717  $\chi^2/\text{NDF}$ : 529243.7/17

Left In: 10210.313+/-1.855  $\chi^2/\text{NDF}$ : 941554.5/19

Left: 10130.947+/-1.282  $\chi^2/\text{NDF}$ : 2006916.8/41

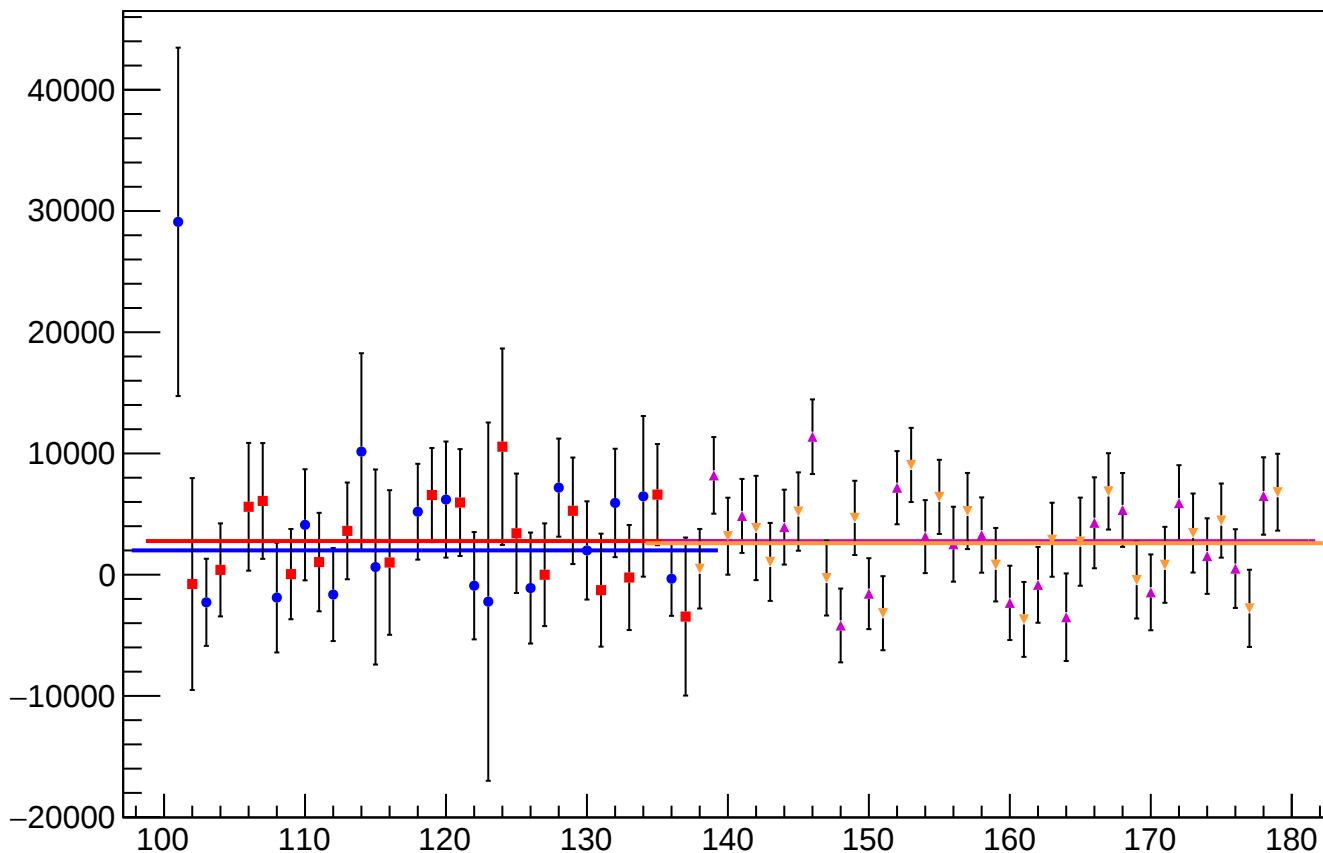
Right: 6289.173+/-1.236  $\chi^2/\text{NDF}$ : 1124633.0/34

In: 8197.195+/-1.284  $\chi^2/\text{NDF}$ : 3798503.0/36

Out: 8086.246+/-1.234  $\chi^2/\text{NDF}$ : 3982190.2/39

All: 8139.501+/-0.890  $\chi^2/\text{NDF}$ : 7784573.1/76

# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2004.589 $\pm$ 1125.432  $\chi^2$ /NDF: 13.7/16

Left Out: 2598.438 $\pm$ 678.912  $\chi^2$ /NDF: 25.7/21

Right Out: 2776.042 $\pm$ 1086.812  $\chi^2$ /NDF: 8.3/17

Left In: 2765.182 $\pm$ 701.010  $\chi^2$ /NDF: 33.8/19

Left: 2679.140 $\pm$ 487.688  $\chi^2$ /NDF: 59.5/41

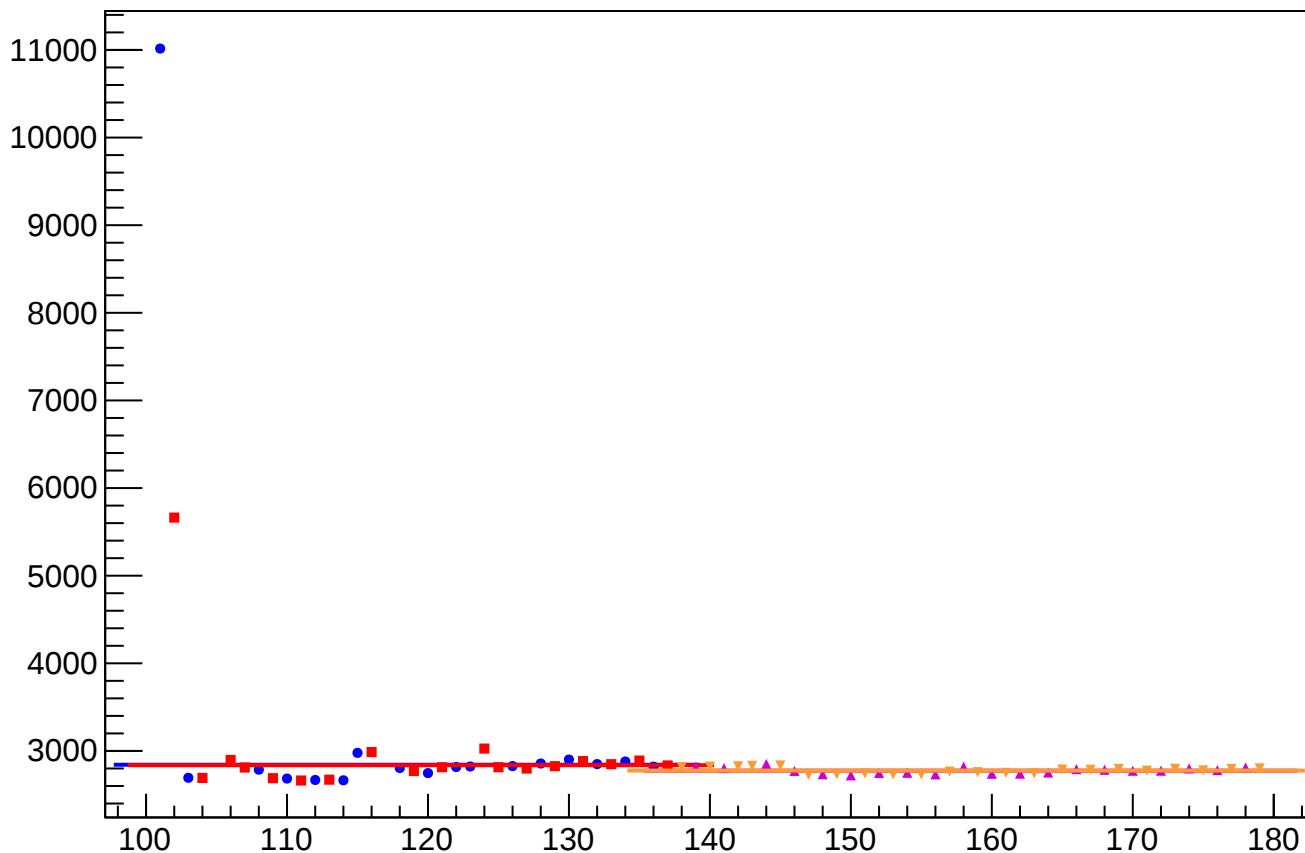
Right: 2403.779 $\pm$ 781.789  $\chi^2$ /NDF: 22.3/34

In: 2552.574 $\pm$ 595.021  $\chi^2$ /NDF: 47.8/36

Out: 2648.290 $\pm$ 575.798  $\chi^2$ /NDF: 34.0/39

All: 2602.003 $\pm$ 413.780  $\chi^2$ /NDF: 81.8/76

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2842.628+/-0.796  $\chi^2/\text{NDF}$ : 660305.1/16

Left Out: 2776.201+/-0.480  $\chi^2/\text{NDF}$ : 4878.6/21

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

Left In: 2774.900+/-0.496  $\chi^2/\text{NDF}$ : 4959.2/19

Left: 2775.571+/-0.345  $\chi^2/\text{NDF}$ : 9841.4/41

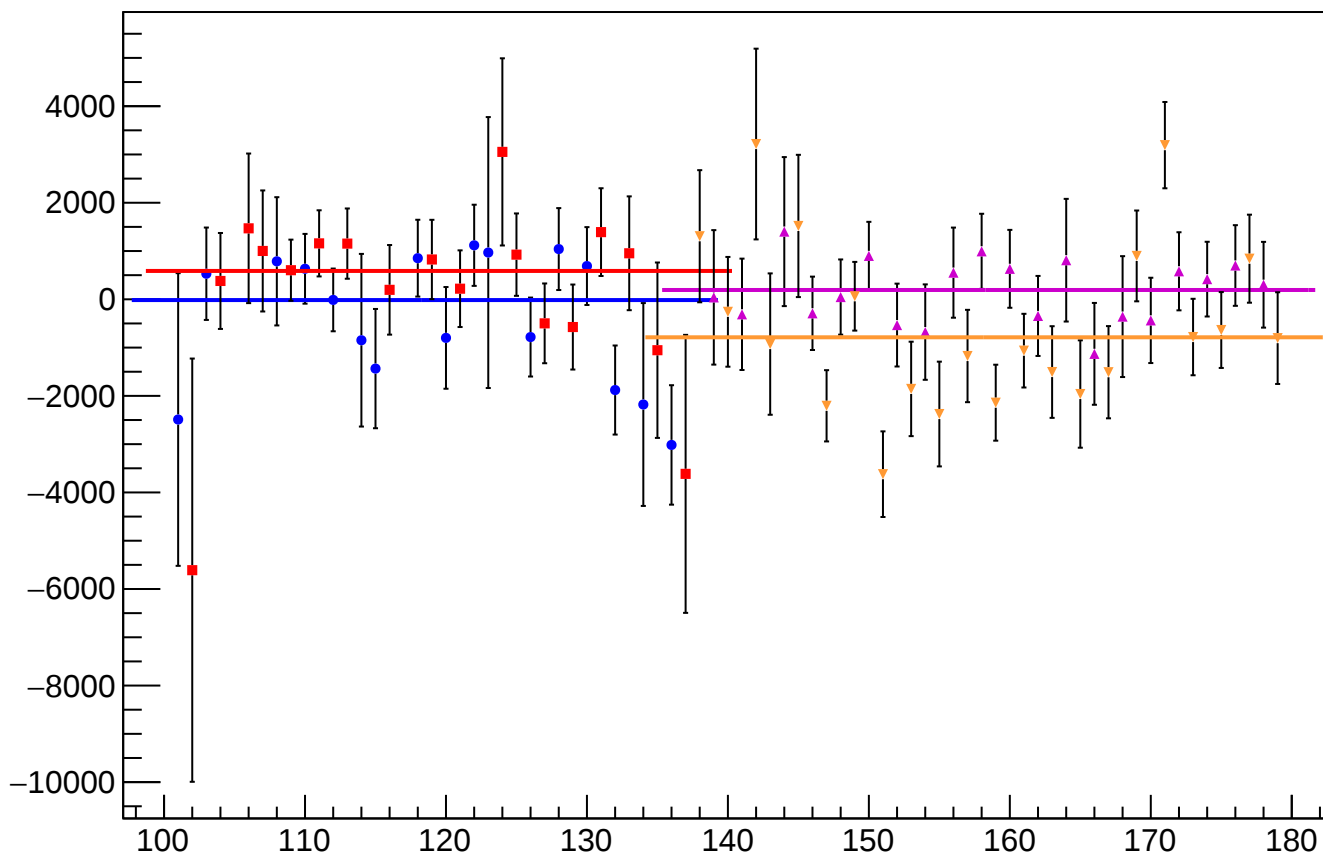
Right: 2839.943+/-0.553  $\chi^2/\text{NDF}$ : 886749.0/34

In: 2793.832+/-0.421  $\chi^2/\text{NDF}$ : 670482.9/36

Out: 2793.390+/-0.407  $\chi^2/\text{NDF}$ : 235868.1/39

All: 2793.604+/-0.293  $\chi^2/\text{NDF}$ : 906351.5/76

# asym\_atr1\_correction\_mean vs Slug, Sign Corrected



Right In: -15.631 $\pm$ 238.862  $\chi^2/\text{NDF}$ : 21.6/16

Left Out: -786.709 $\pm$ 200.715  $\chi^2/\text{NDF}$ : 59.6/21

Right Out: 587.609 $\pm$ 225.811  $\chi^2/\text{NDF}$ : 13.3/17

Left In: 193.234 $\pm$ 201.662  $\chi^2/\text{NDF}$ : 8.9/19

Left: -299.043 $\pm$ 142.261  $\chi^2/\text{NDF}$ : 80.3/41

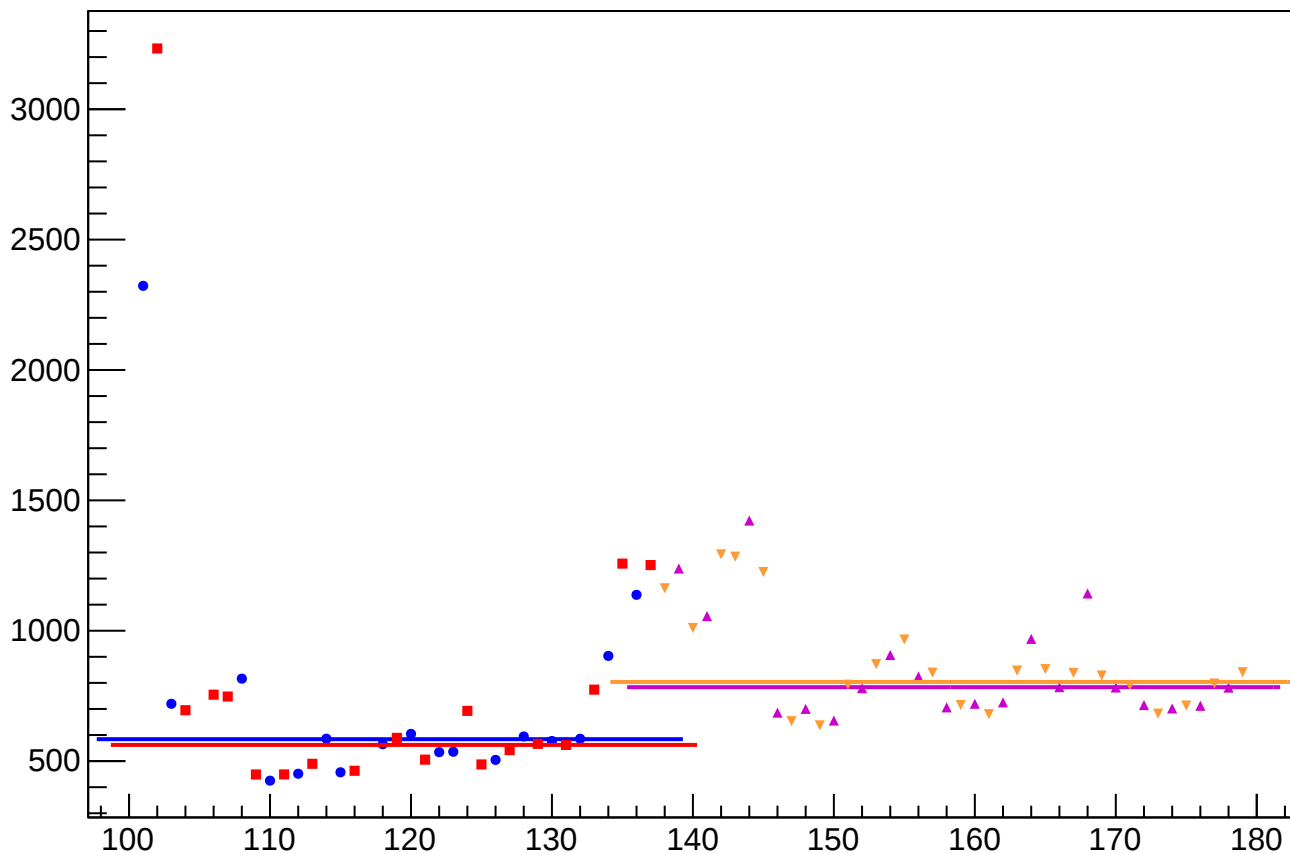
Right: 302.919 $\pm$ 164.093  $\chi^2/\text{NDF}$ : 38.3/34

In: 106.315 $\pm$ 154.090  $\chi^2/\text{NDF}$ : 30.9/36

Out: -180.133 $\pm$ 150.018  $\chi^2/\text{NDF}$ : 93.6/39

All: -40.744 $\pm$ 107.490  $\chi^2/\text{NDF}$ : 126.3/76

# asym\_atr1\_correction\_rms vs Slug, Sign Corrected



Right In: 584.055 $\pm$ 0.169  $\chi^2$ /NDF: 1436613.4/16

Left Out: 803.632 $\pm$ 0.142  $\chi^2$ /NDF:1123689.1/21

Right Out: 562.122 $\pm$ 0.160  $\chi^2$ /NDF: 1525298.9/17

Left In: 783.534 $\pm$ 0.143  $\chi^2$ /NDF:1125404.3/19

Left: 793.630 $\pm$ 0.101  $\chi^2$ /NDF: 2259072.6/41

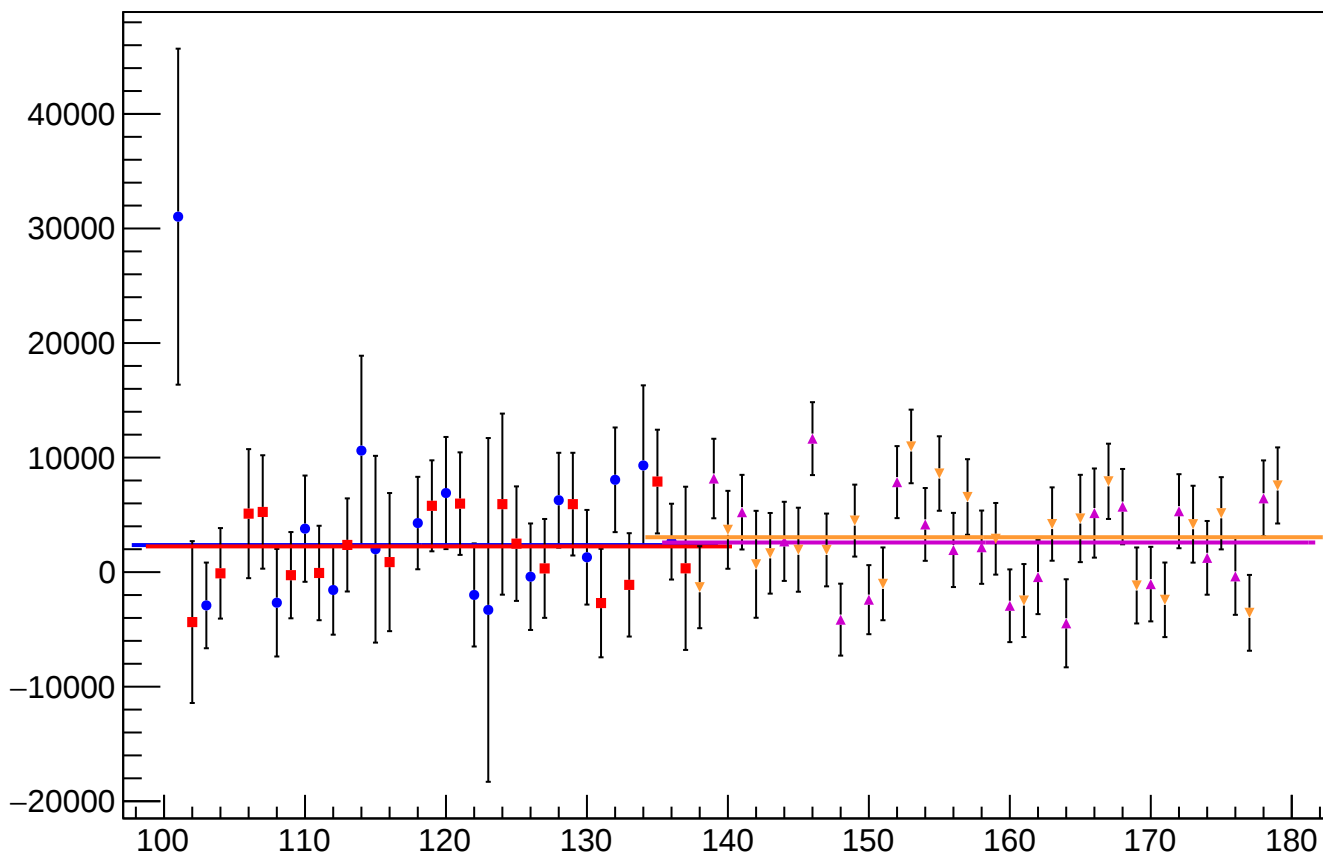
Right: 572.473 $\pm$ 0.116  $\chi^2$ /NDF: 2970817.1/34

In: 700.520 $\pm$ 0.109  $\chi^2$ /NDF:3376396.8/36

Out: 697.038 $\pm$ 0.106  $\chi^2$ /NDF:3927004.7/39

All: 698.732 $\pm$ 0.076  $\chi^2$ /NDF: 7303926.0/76

# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 3048.173 $\pm$ 713.443  $\chi^2$ /NDF:30.5/21

Right Out: 2245.410 $\pm$ 1111.935  $\chi^2$ /NDF: 8.5/17

Left In: 2586.277 $\pm$ 734.825  $\chi^2$ /NDF:34.7/19

Left: 2824.043 $\pm$ 511.873  $\chi^2$ /NDF: 65.4/41

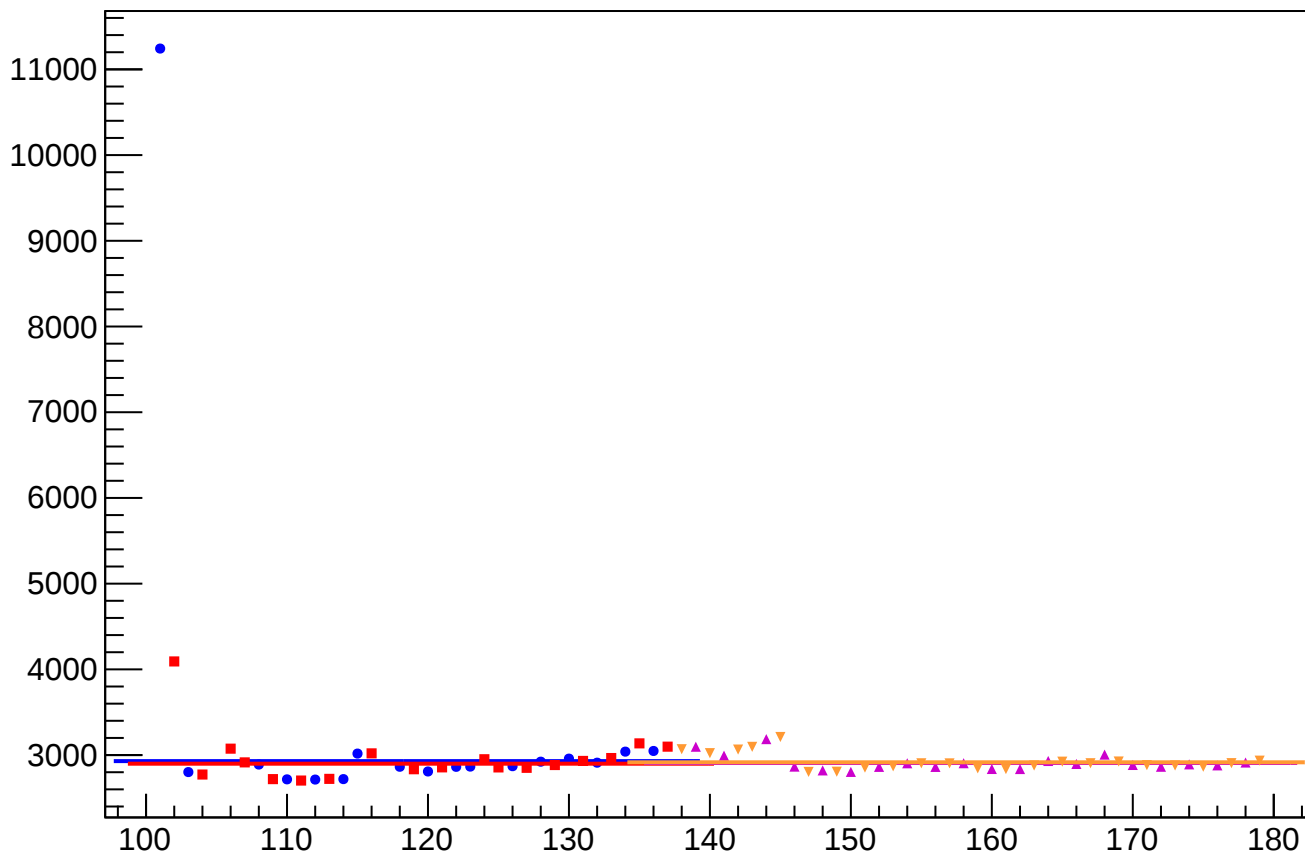
Right: 2301.625 $\pm$ 802.692  $\chi^2$ /NDF: 23.6/34

In: 2522.275 $\pm$ 620.747  $\chi^2$ /NDF:49.8/36

Out: 2814.068 $\pm$ 600.470  $\chi^2$ /NDF:39.4/39

All: 2673.015 $\pm$ 431.587  $\chi^2$ /NDF: 89.3/76

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2915.789+/-0.504  $\chi^2/\text{NDF}$ : 35673.1/21

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

Left In: 2907.565+/-0.520  $\chi^2/\text{NDF}$ : 29858.7/19

Left: 2911.798+/-0.362  $\chi^2/\text{NDF}$ : 65660.7/41

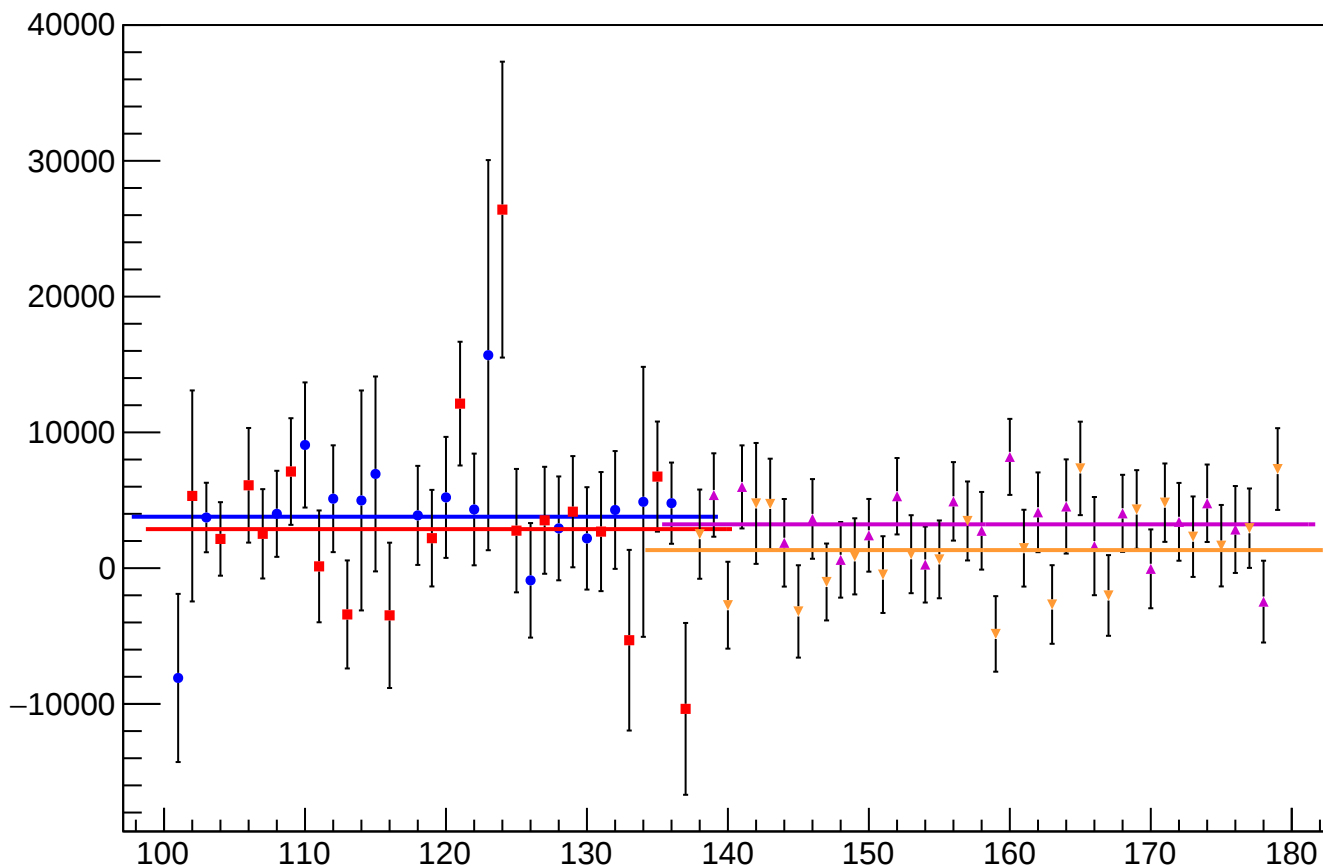
Right: 2913.904+/-0.568  $\chi^2/\text{NDF}$ : 746879.7/34

In: 2913.891+/-0.439  $\chi^2/\text{NDF}$ : 693005.2/36

Out: 2911.018+/-0.425  $\chi^2/\text{NDF}$ : 119522.8/39

All: 2912.407+/-0.305  $\chi^2/\text{NDF}$ : 812550.1/76

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3787.840 $\pm$ 1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 1329.915 $\pm$ 643.091  $\chi^2/\text{NDF}$ : 24.9/21

Right Out: 2874.691 $\pm$ 1004.077  $\chi^2/\text{NDF}$ : 22.0/17

Left In: 3227.509 $\pm$ 661.135  $\chi^2/\text{NDF}$ : 13.3/19

Left: 2252.463 $\pm$ 460.981  $\chi^2/\text{NDF}$ : 42.5/41

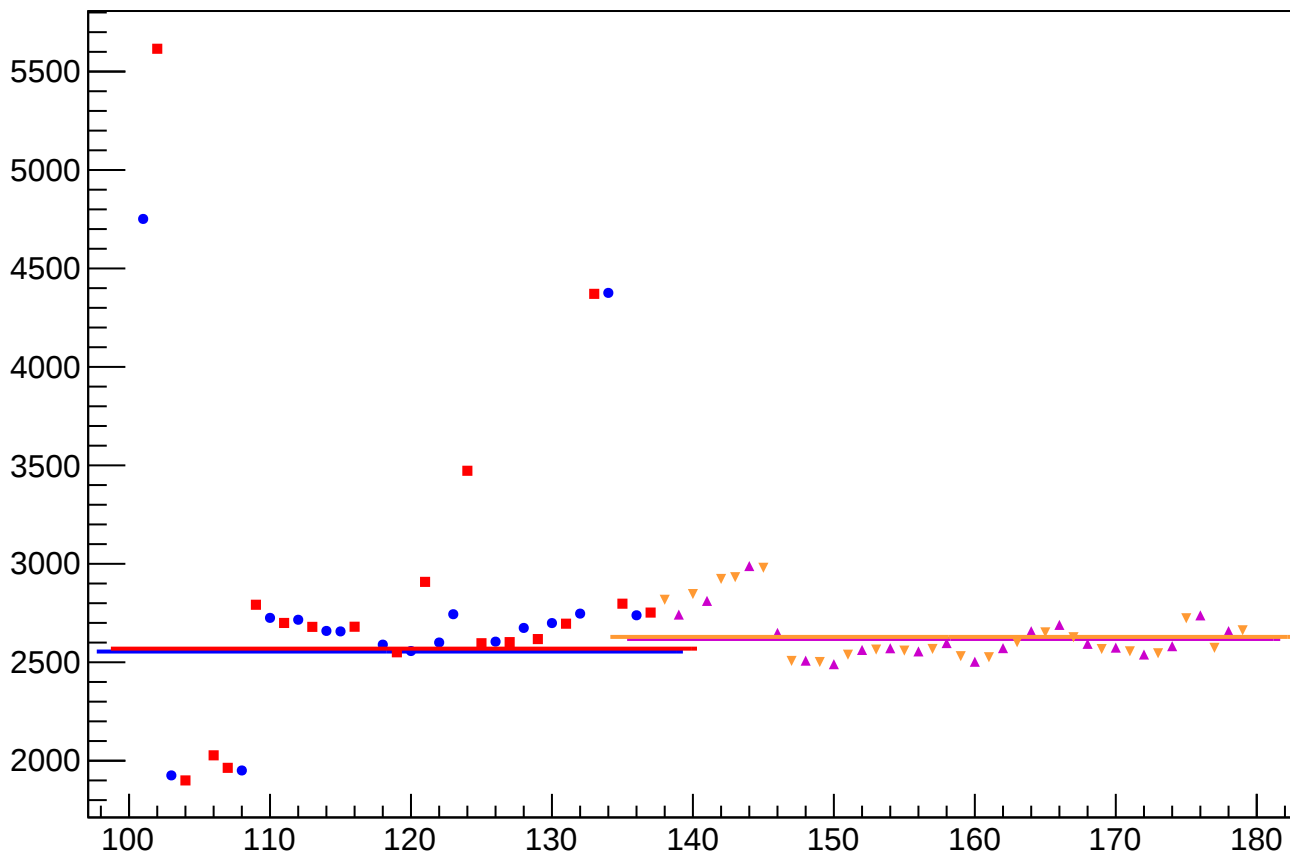
Right: 3329.431 $\pm$ 711.415  $\chi^2/\text{NDF}$ : 30.2/34

In: 3396.024 $\pm$ 552.852  $\chi^2/\text{NDF}$ : 21.3/36

Out: 1779.272 $\pm$ 541.539  $\chi^2/\text{NDF}$ : 48.6/39

All: 2570.937 $\pm$ 386.864  $\chi^2/\text{NDF}$ : 74.3/76

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2554.537 $\pm$ 0.713  $\chi^2$ /NDF: 536626.0/16

Left Out: 2628.848 $\pm$ 0.455  $\chi^2$ /NDF: 87540.5/21

Right Out: 2569.256 $\pm$ 0.710  $\chi^2$ /NDF: 723332.1/17

Left In: 2618.403 $\pm$ 0.467  $\chi^2$ /NDF: 58497.0/19

Left: 2623.770 $\pm$ 0.326  $\chi^2$ /NDF: 146294.0/41

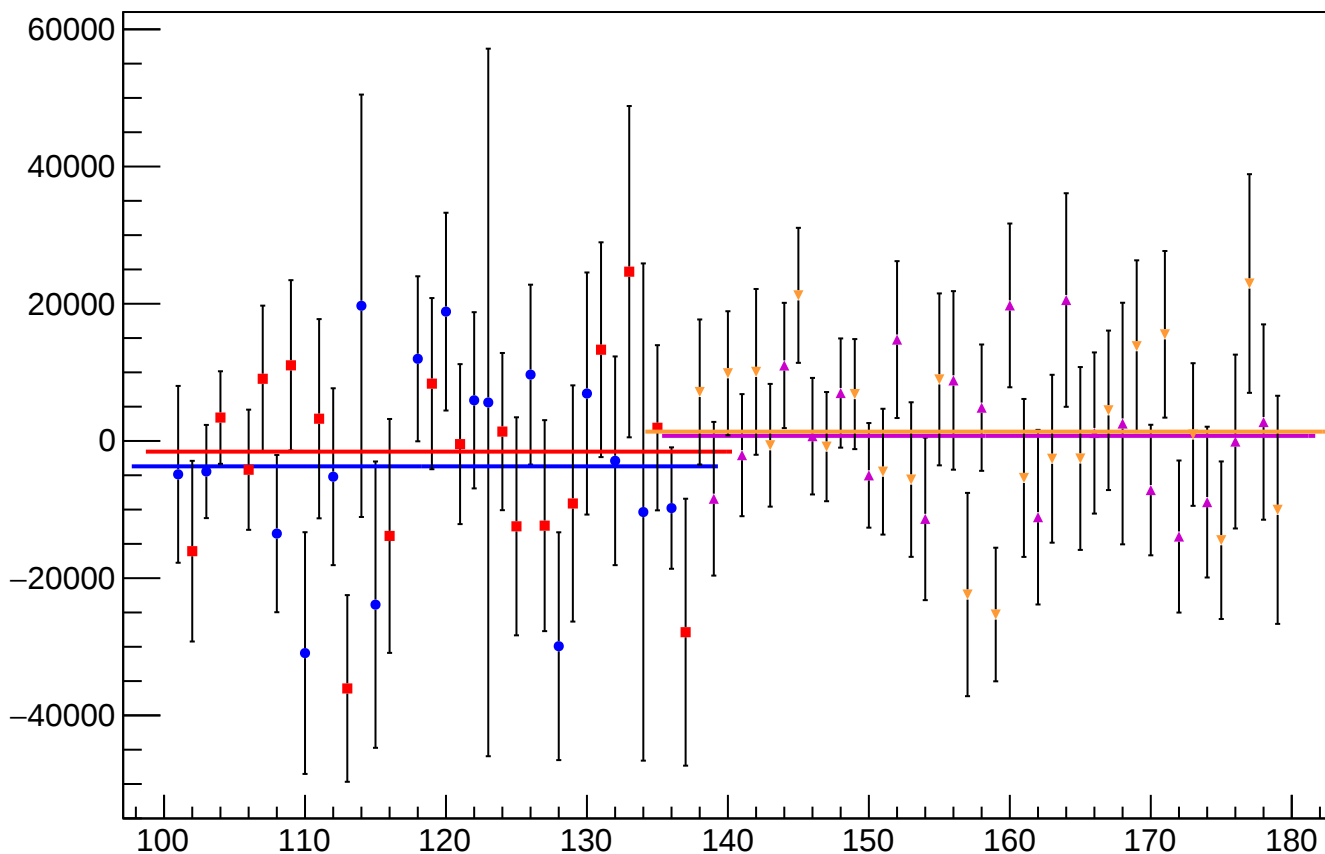
Right: 2561.929 $\pm$ 0.503  $\chi^2$ /NDF: 1260172.2/34

In: 2599.196 $\pm$ 0.391  $\chi^2$ /NDF: 600735.9/36

Out: 2611.504 $\pm$ 0.383  $\chi^2$ /NDF: 815871.0/39

All: 2605.478 $\pm$ 0.274  $\chi^2$ /NDF: 1417112.8/76

asym\_atr2\_correction\_mean vs Slug, Sign Corrected



Right In: -3699.522 $\pm$ 3217.843  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 1360.527 $\pm$ 2304.828  $\chi^2/\text{NDF}$ : 24.8/21

Right Out: -1555.707 $\pm$ 2911.769  $\chi^2/\text{NDF}$ : 16.8/17

Left In: 741.480 $\pm$ 2367.817  $\chi^2/\text{NDF}$ : 14.6/19

Left: 1059.347 $\pm$ 1651.579  $\chi^2/\text{NDF}$ : 39.4/41

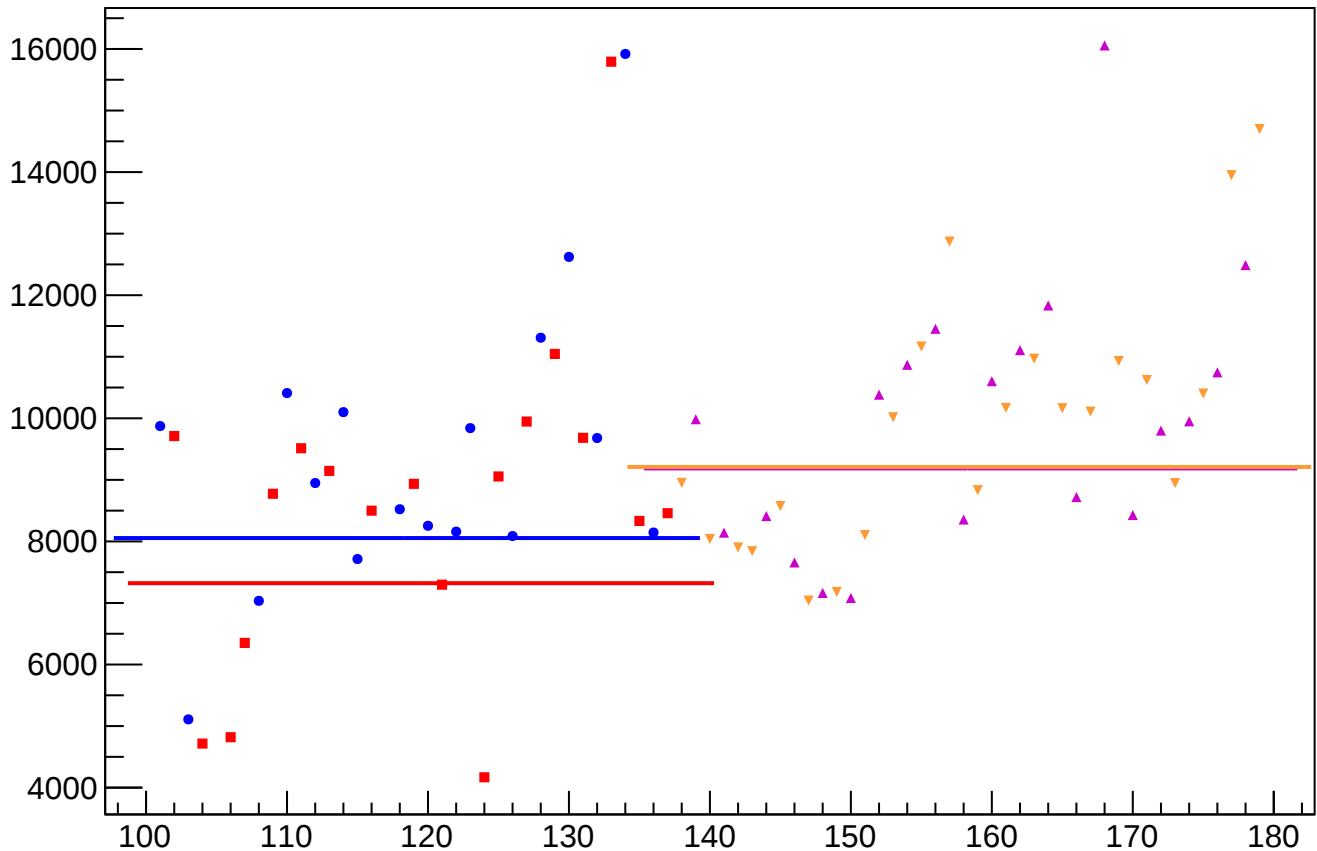
Right: -2520.832 $\pm$ 2159.052  $\chi^2/\text{NDF}$ : 30.8/34

In: -818.486 $\pm$ 1907.137  $\chi^2/\text{NDF}$ : 29.7/36

Out: 237.177 $\pm$ 1807.188  $\chi^2/\text{NDF}$ : 42.2/39

All: -262.268 $\pm$ 1311.787  $\chi^2/\text{NDF}$ : 72.0/76

# asym\_atr2\_correction\_rms vs Slug, Sign Corrected



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 9209.644+/-1.630  $\chi^2/\text{NDF}$ :1163573.6/21

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

Left In: 9185.542+/-1.674  $\chi^2/\text{NDF}$ :1143564.3/19

Left: 9197.918+/-1.168  $\chi^2/\text{NDF}$ : 2307244.2/41

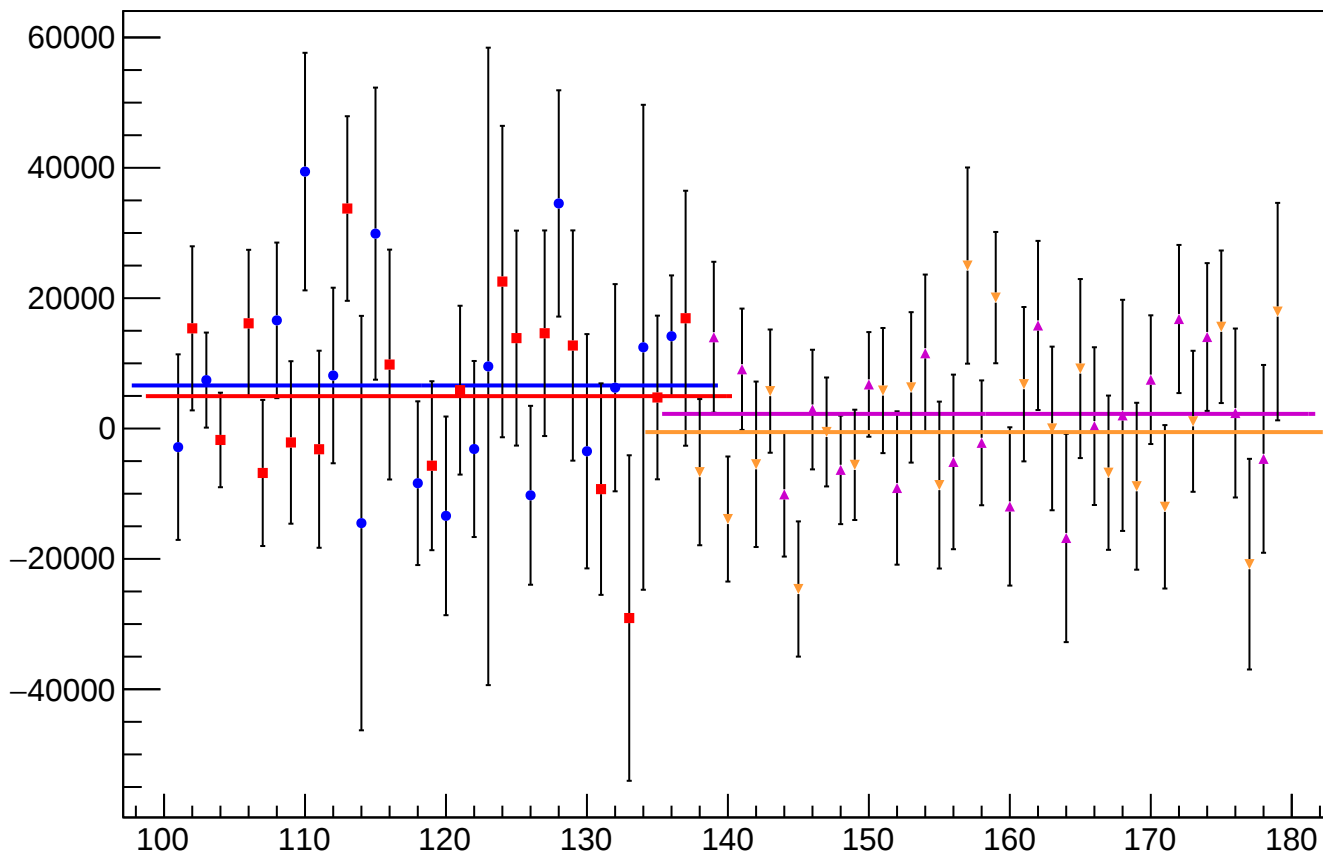
Right: 7651.572+/-1.527  $\chi^2/\text{NDF}$ : 2213832.0/34

In: 8788.343+/-1.349  $\chi^2/\text{NDF}$ :2124547.4/36

Out: 8482.292+/-1.278  $\chi^2/\text{NDF}$ :3016600.1/39

All: 8627.088+/-0.928  $\chi^2/\text{NDF}$ : 5168285.1/76

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -547.117+/-2396.123  $\chi^2/\text{NDF}$ : 24.0/21

Right Out: 4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 2246.697+/-2457.859  $\chi^2/\text{NDF}$ : 13.8/19

Left: 814.262+/-1715.725  $\chi^2/\text{NDF}$ : 38.5/41

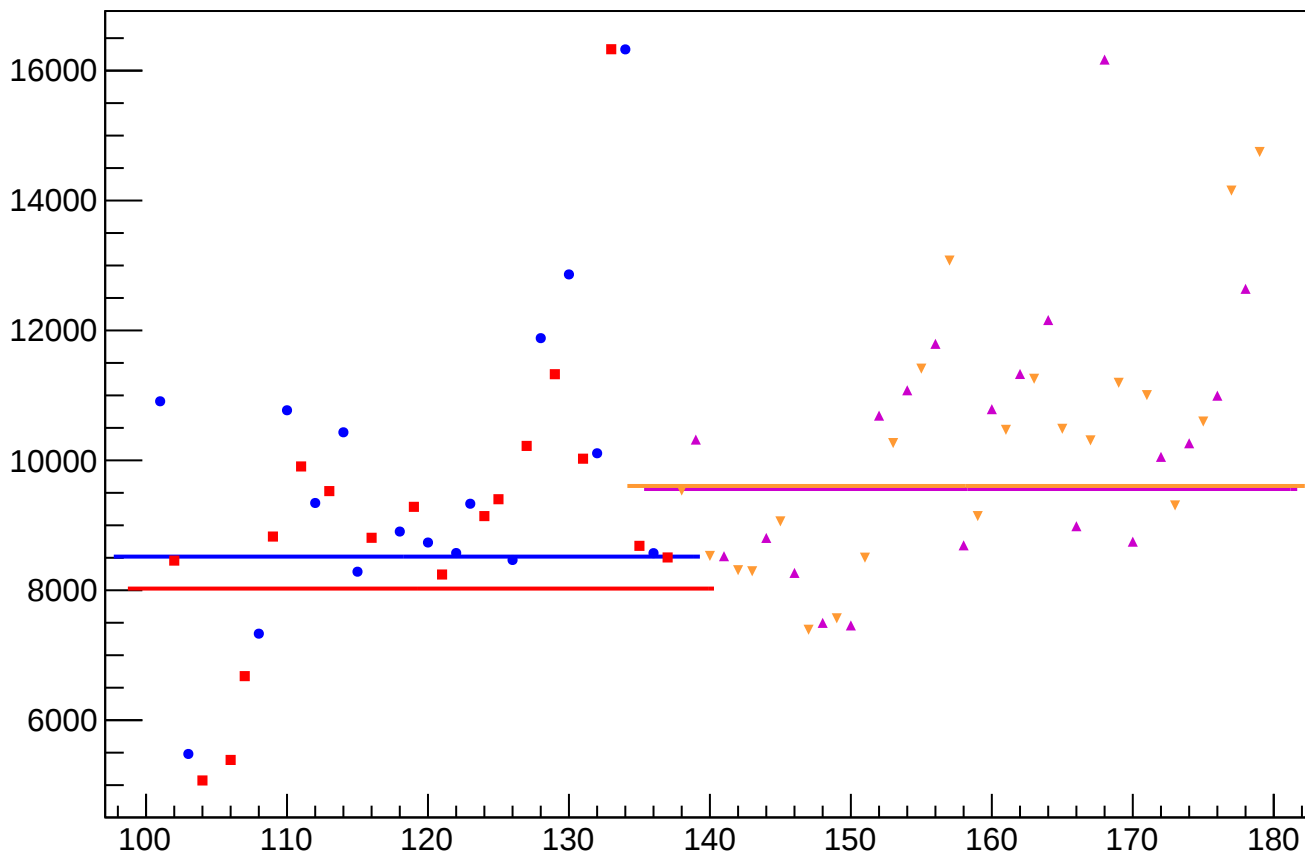
Right: 5732.997+/-2319.944  $\chi^2/\text{NDF}$ : 28.4/34

In: 3745.754+/-1991.062  $\chi^2/\text{NDF}$ : 29.6/36

Out: 1452.605+/-1912.997  $\chi^2/\text{NDF}$ : 39.5/39

All: 2553.344+/-1379.466  $\chi^2/\text{NDF}$ : 69.7/76

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8518.273 $\pm$ 2.401  $\chi^2$ /NDF: 771995.0/16

Left Out: 9605.708 $\pm$ 1.694  $\chi^2$ /NDF:1010379.2/21

Right Out: 8026.045 $\pm$ 2.246  $\chi^2$ /NDF: 942657.8/17

Left In: 9559.097 $\pm$ 1.738  $\chi^2$ /NDF:1001259.9/19

Left: 9582.995 $\pm$ 1.213  $\chi^2$ /NDF: 2012007.8/41

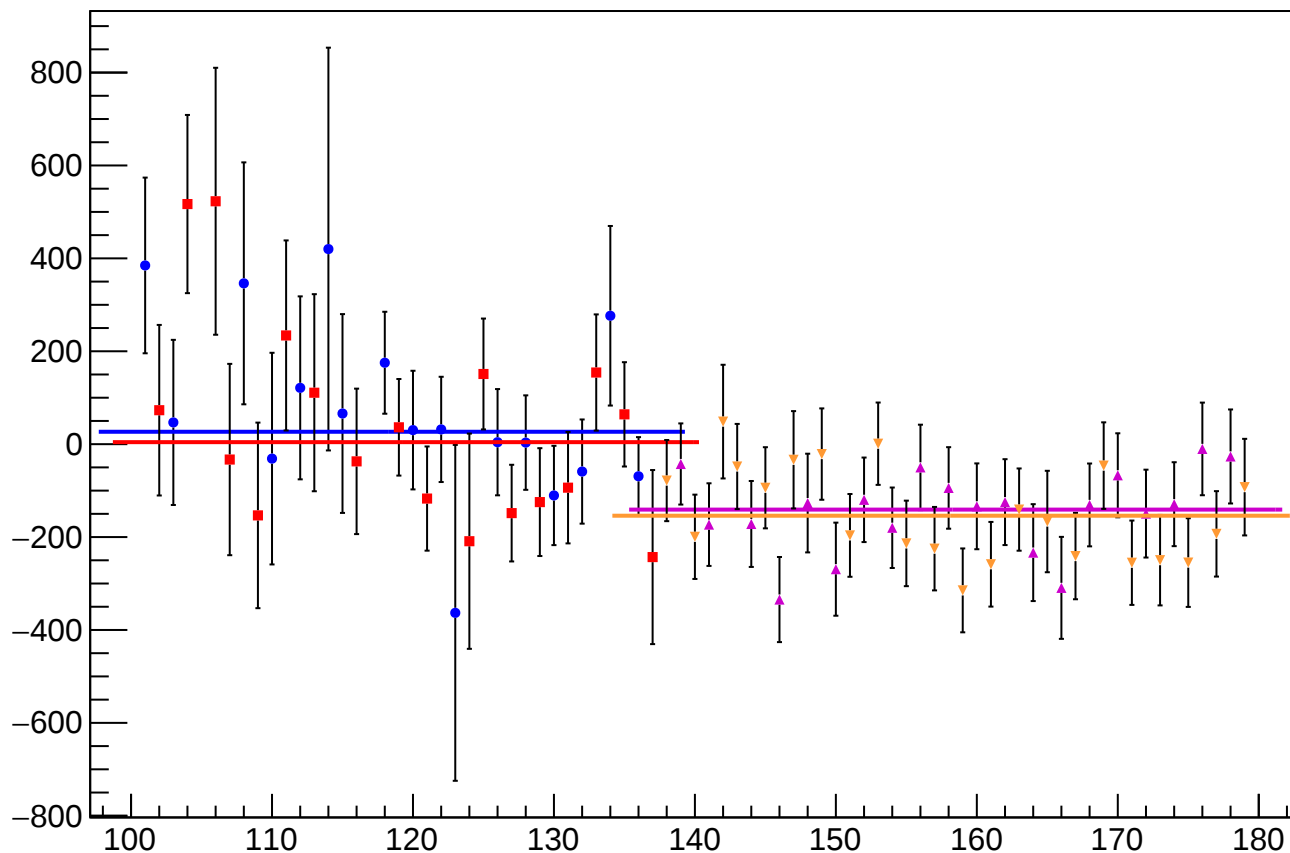
Right: 8255.767 $\pm$ 1.640  $\chi^2$ /NDF: 1737062.4/34

In: 9201.293 $\pm$ 1.408  $\chi^2$ /NDF:1896548.2/36

Out: 9032.892 $\pm$ 1.353  $\chi^2$ /NDF:2268240.8/39

All: 9113.725 $\pm$ 0.975  $\chi^2$ /NDF: 4172228.6/76

# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 26.713 $\pm$ 33.626  $\chi^2$ /NDF: 14.5/16

Left Out: -154.018 $\pm$ 20.034  $\chi^2$ /NDF:23.6/21

Right Out: 4.338 $\pm$ 33.842  $\chi^2$ /NDF: 23.9/17

Left In: -140.864 $\pm$ 20.973  $\chi^2$ /NDF:16.0/19

Left: -147.742 $\pm$ 14.487  $\chi^2$ /NDF: 39.8/41

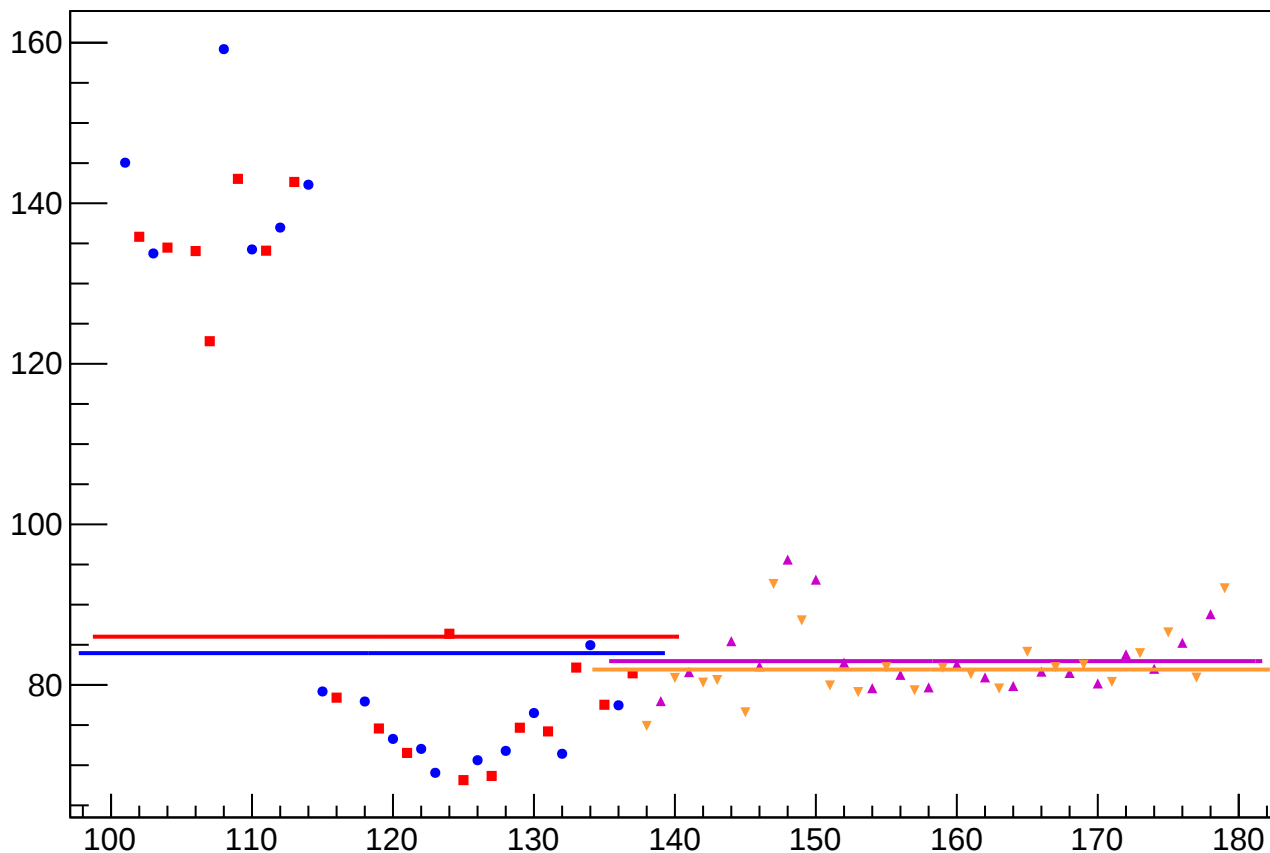
Right: 15.597 $\pm$ 23.853  $\chi^2$ /NDF: 38.7/34

In: -93.932 $\pm$ 17.795  $\chi^2$ /NDF:48.4/36

Out: -112.925 $\pm$ 17.239  $\chi^2$ /NDF:63.7/39

All: -103.730 $\pm$ 12.382  $\chi^2$ /NDF: 112.8/76

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In:  $83.961 \pm 0.024$   $\chi^2/\text{NDF}: 960253.6/16$

Left Out:  $81.915 \pm 0.014$   $\chi^2/\text{NDF}: 82296.5/21$

Right Out:  $86.012 \pm 0.024$   $\chi^2/\text{NDF}: 1026404.0/17$

Left In:  $82.965 \pm 0.015$   $\chi^2/\text{NDF}: 77487.4/19$

Left:  $82.416 \pm 0.010$   $\chi^2/\text{NDF}: 162408.1/41$

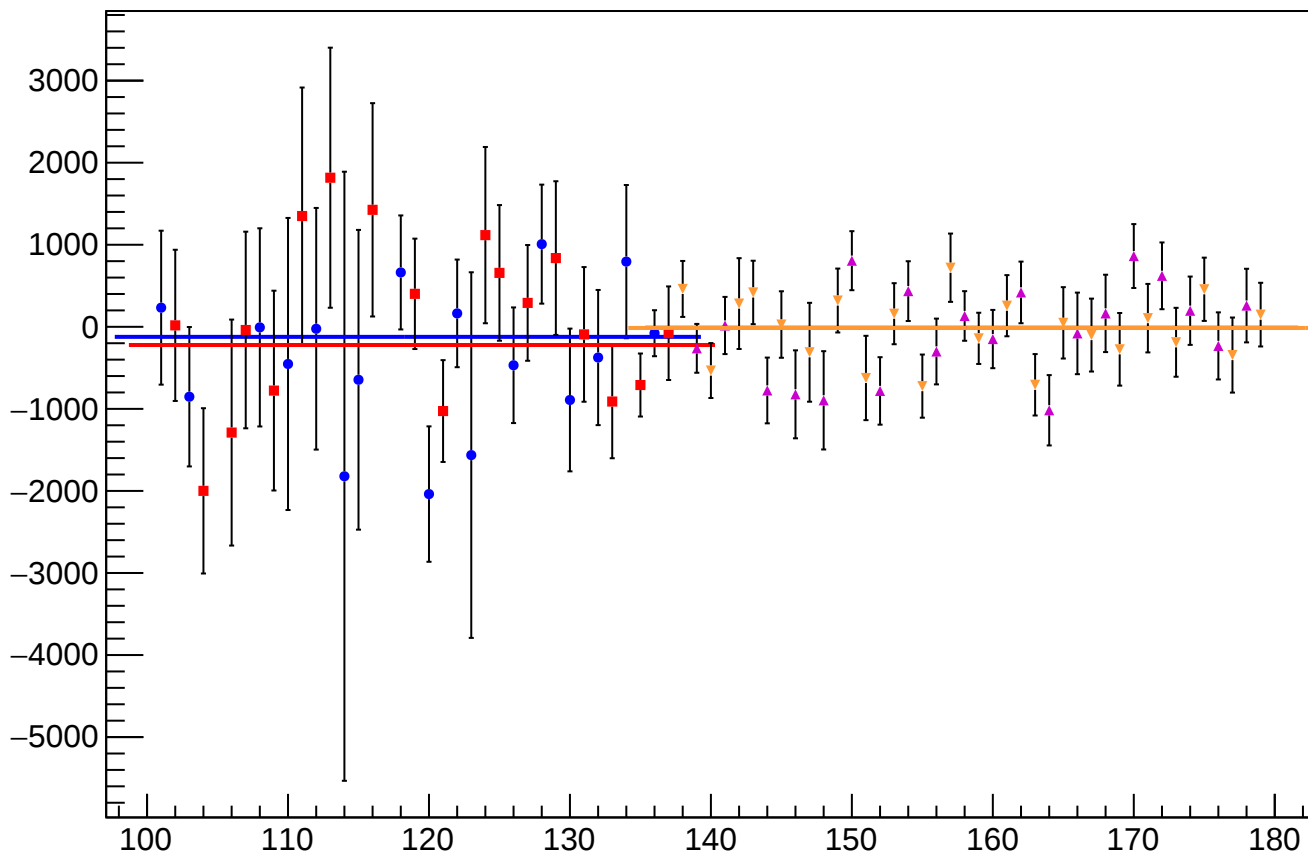
Right:  $84.980 \pm 0.017$   $\chi^2/\text{NDF}: 1990355.7/34$

In:  $83.244 \pm 0.013$   $\chi^2/\text{NDF}: 1039002.4/36$

Out:  $82.978 \pm 0.012$   $\chi^2/\text{NDF}: 1130409.7/39$

All:  $83.107 \pm 0.009$   $\chi^2/\text{NDF}: 2169642.7/76$

# asym\_sam1\_correction\_mean vs Slug, Sign Corrected



Right In: -122.410 $\pm$ 179.587  $\chi^2$ /NDF: 13.0/16

Left Out: -13.993 $\pm$ 85.716  $\chi^2$ /NDF:22.0/21

Right Out: -221.525 $\pm$ 185.098  $\chi^2$ /NDF: 18.0/17

Left In: -11.150 $\pm$ 88.130  $\chi^2$ /NDF:35.2/19

Left: -12.611 $\pm$ 61.446  $\chi^2$ /NDF: 57.2/41

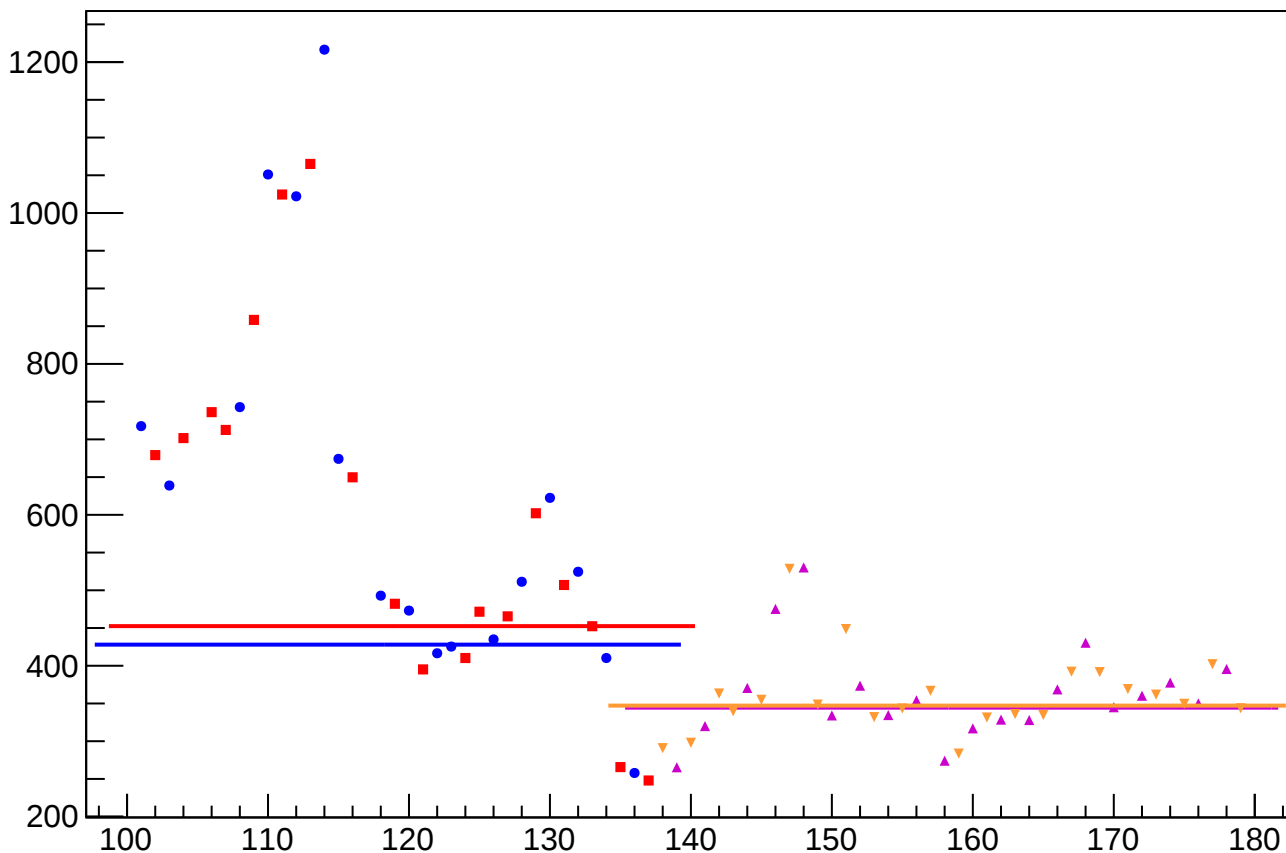
Right: -170.470 $\pm$ 128.892  $\chi^2$ /NDF: 31.2/34

In: -32.744 $\pm$ 79.117  $\chi^2$ /NDF:48.6/36

Out: -50.639 $\pm$ 77.781  $\chi^2$ /NDF:41.0/39

All: -41.844 $\pm$ 55.466  $\chi^2$ /NDF: 89.6/76

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 347.181+/-0.061  $\chi^2/\text{NDF}$ : 535779.1/21

Right Out: 452.508+/-0.131  $\chi^2/\text{NDF}$ : 2073032.9/17

Left In: 344.447+/-0.062  $\chi^2/\text{NDF}$ : 725764.1/19

Left: 345.852+/-0.043  $\chi^2/\text{NDF}$ : 1262532.4/41

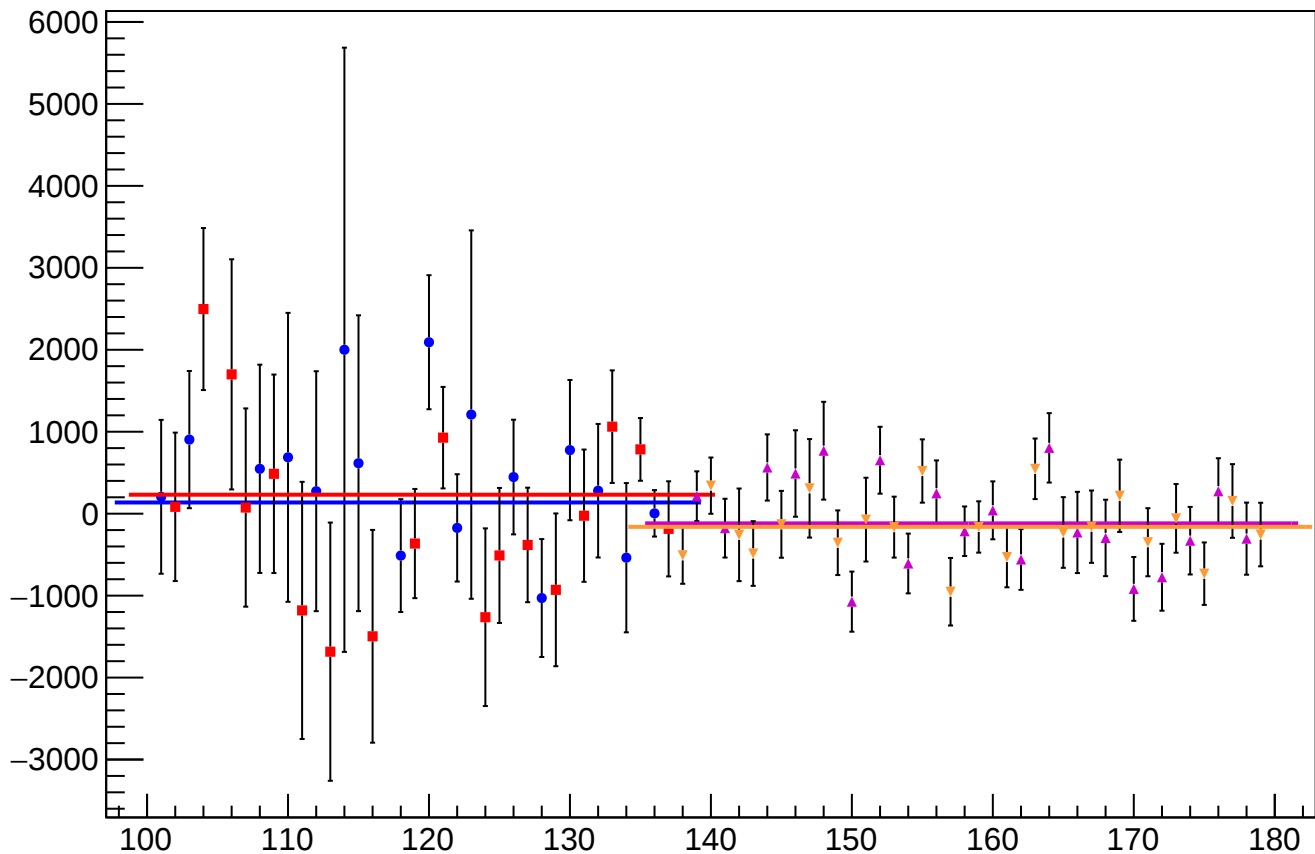
Right: 439.876+/-0.091  $\chi^2/\text{NDF}$ : 4153360.2/34

In: 360.660+/-0.056  $\chi^2/\text{NDF}$ : 3136782.5/36

Out: 365.780+/-0.055  $\chi^2/\text{NDF}$ : 3142048.3/39

All: 363.264+/-0.039  $\chi^2/\text{NDF}$ : 6283089.0/76

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 136.810 $\pm$ 179.609  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: -160.642 $\pm$ 85.849  $\chi^2/\text{NDF}$ : 20.0/21

Right Out: 231.586 $\pm$ 184.578  $\chi^2/\text{NDF}$ : 21.8/17

Left In: -118.362 $\pm$ 88.176  $\chi^2/\text{NDF}$ : 35.4/19

Left: -140.068 $\pm$ 61.511  $\chi^2/\text{NDF}$ : 55.6/41

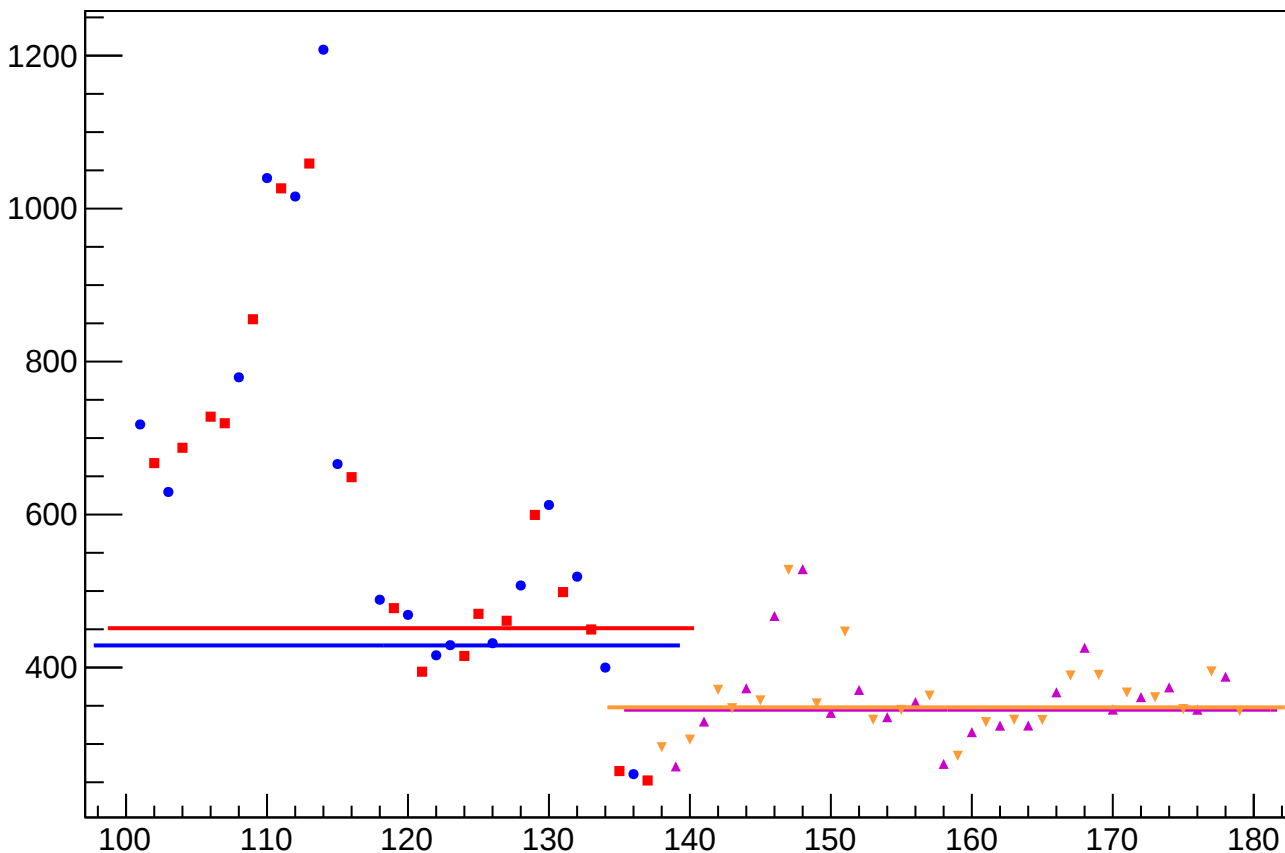
Right: 182.905 $\pm$ 128.724  $\chi^2/\text{NDF}$ : 34.5/34

In: -68.805 $\pm$ 79.152  $\chi^2/\text{NDF}$ : 49.7/36

Out: -90.884 $\pm$ 77.841  $\chi^2/\text{NDF}$ : 45.5/39

All: -80.029 $\pm$ 55.500  $\chi^2/\text{NDF}$ : 95.2/76

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 347.930+/-0.061  $\chi^2/\text{NDF}$ : 499473.9/21

Right Out: 451.411+/-0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

Left In: 344.863+/-0.062  $\chi^2/\text{NDF}$ : 673107.5/19

Left: 346.437+/-0.043  $\chi^2/\text{NDF}$ : 1173823.2/41

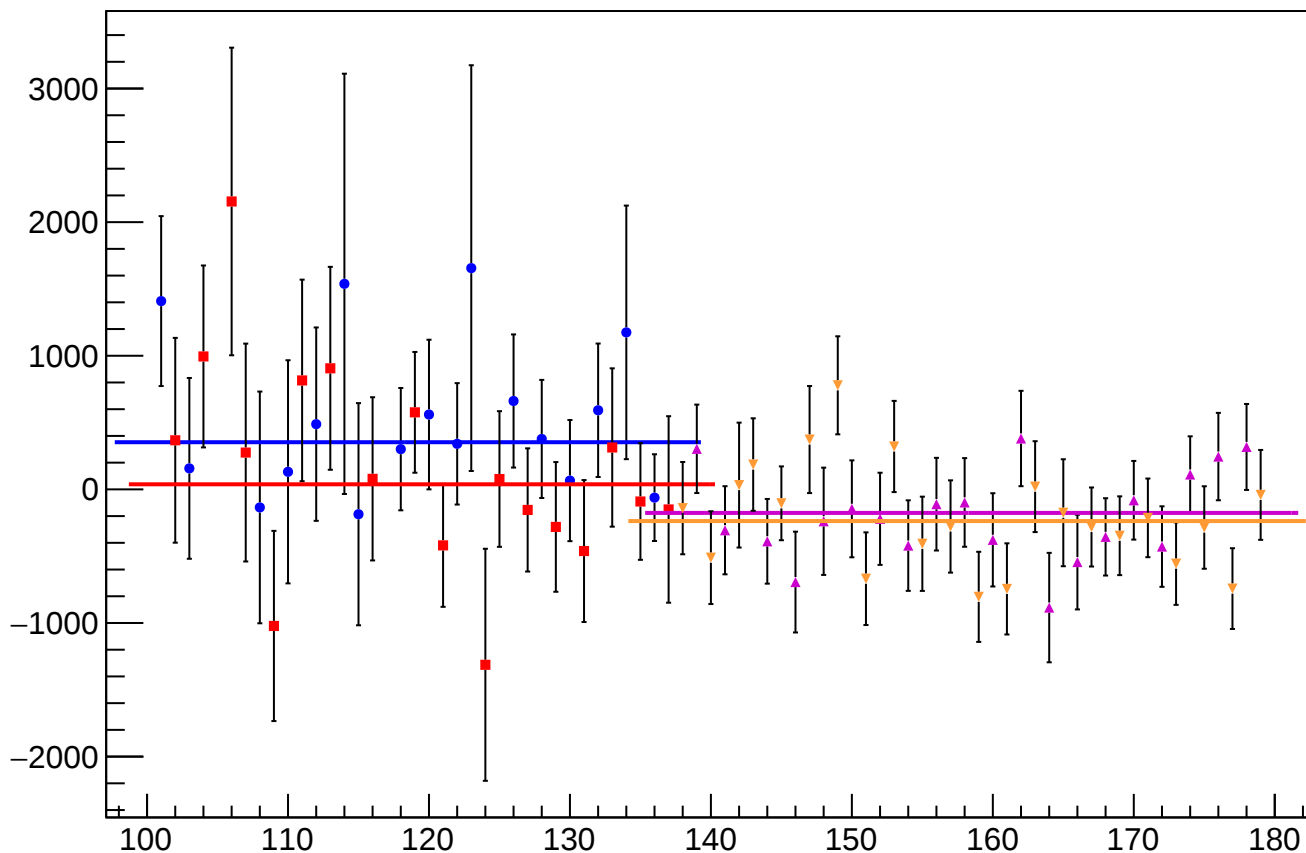
Right: 439.843+/-0.091  $\chi^2/\text{NDF}$ : 4056629.4/34

In: 361.182+/-0.056  $\chi^2/\text{NDF}$ : 3036417.2/36

Out: 366.334+/-0.055  $\chi^2/\text{NDF}$ : 3047040.5/39

All: 363.801+/-0.039  $\chi^2/\text{NDF}$ : 6087765.5/76

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 352.927 $\pm$ 137.298  $\chi^2$ /NDF: 8.5/16

Left Out: -237.186 $\pm$ 71.206  $\chi^2$ /NDF:27.2/21

Right Out: 37.982 $\pm$ 139.023  $\chi^2$ /NDF: 16.9/17

Left In: -176.198 $\pm$ 74.668  $\chi^2$ /NDF:18.3/19

Left: -208.138 $\pm$ 51.531  $\chi^2$ /NDF: 45.9/41

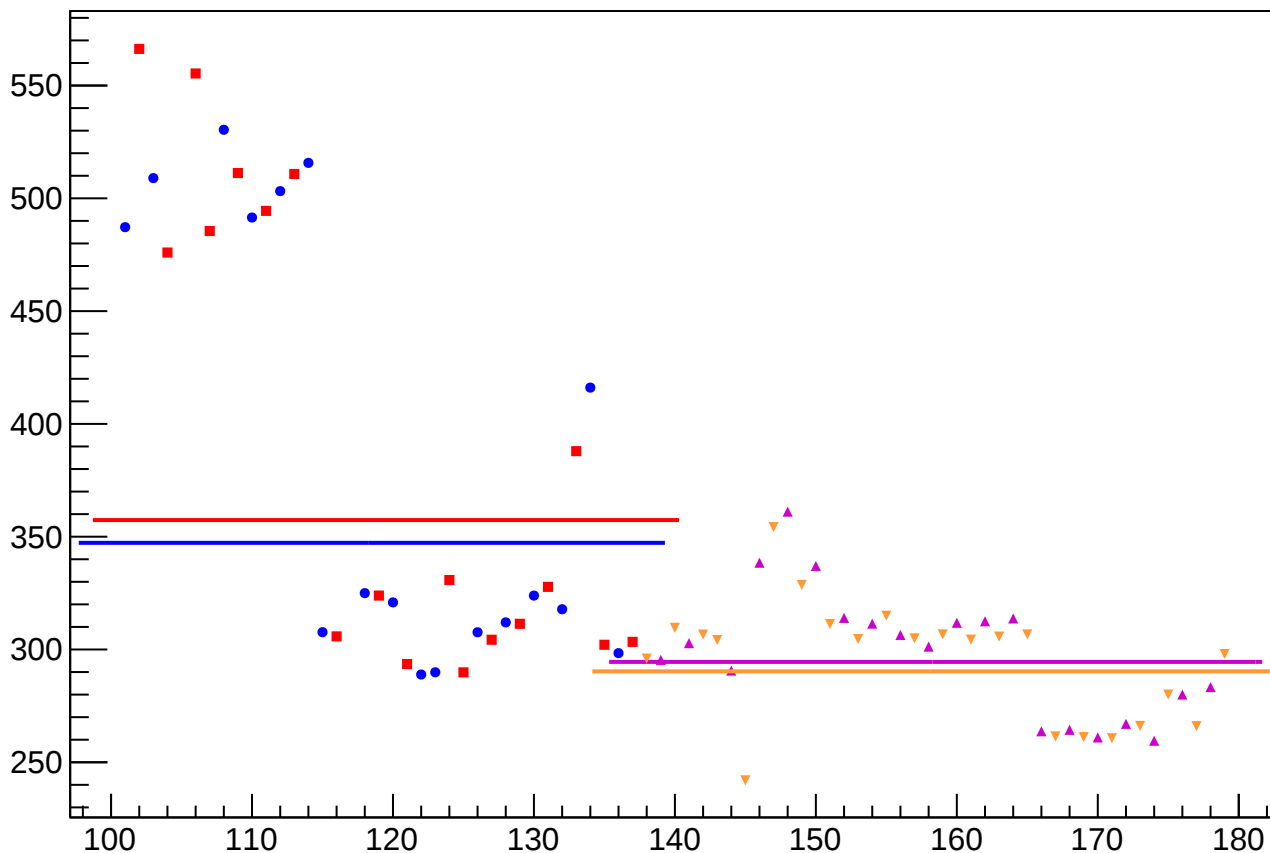
Right: 197.421 $\pm$ 97.689  $\chi^2$ /NDF: 28.1/34

In: -55.425 $\pm$ 65.595  $\chi^2$ /NDF:38.3/36

Out: -180.001 $\pm$ 63.377  $\chi^2$ /NDF:47.3/39

All: -119.855 $\pm$ 45.578  $\chi^2$ /NDF: 87.4/76

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 347.280 $\pm$ 0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 290.302 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 273374.3/21

Right Out: 357.365 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 759938.5/17

Left In: 294.498 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 255747.9/19

Left: 292.300 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 532430.0/41

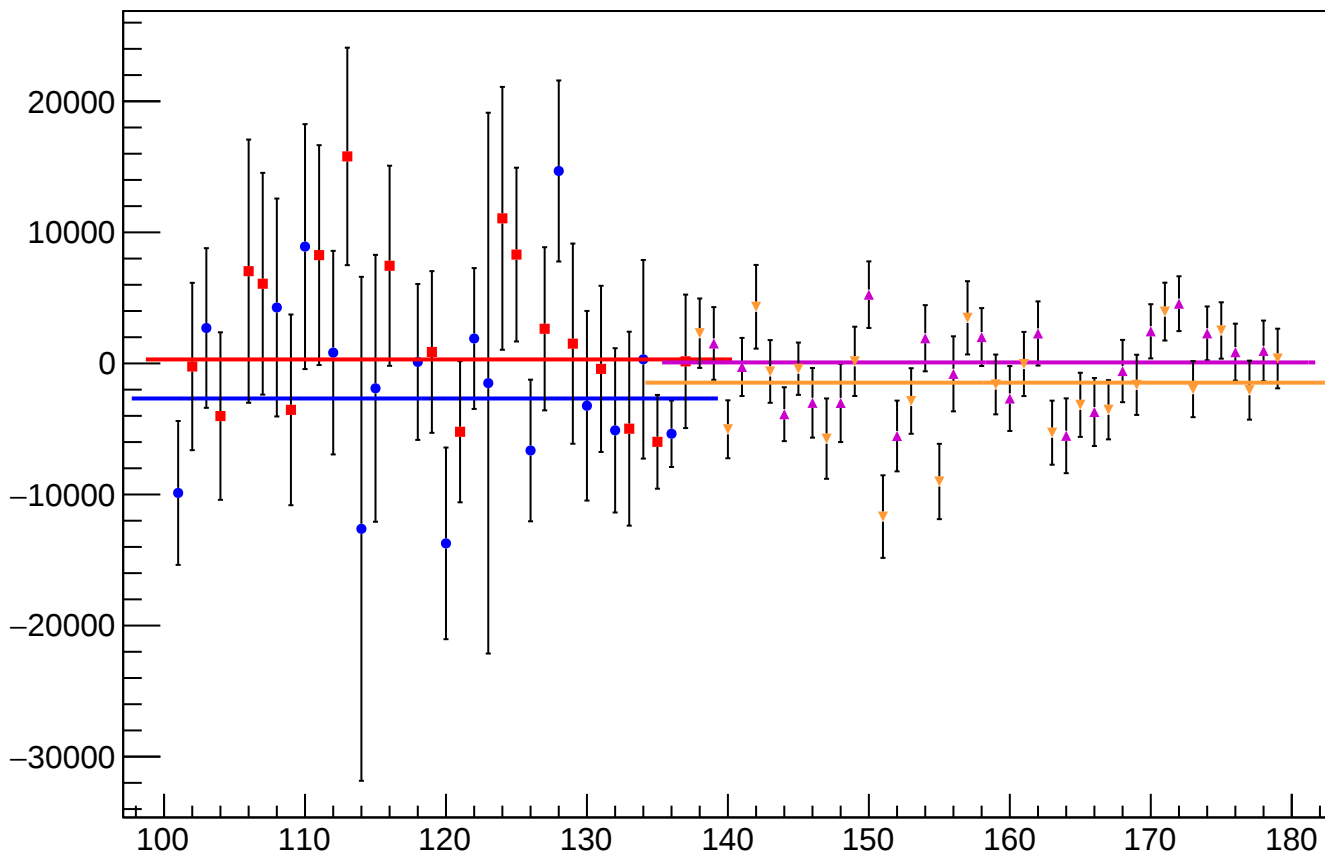
Right: 352.259 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 1384173.3/34

In: 306.545 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 1102765.7/36

Out: 304.239 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 1401987.1/39

All: 305.352 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 2506031.7/76

asym\_sam2\_correction\_mean vs Slug, Sign Corrected



Right In: -2674.025 $\pm$ 1456.188  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -1466.777 $\pm$ 517.017  $\chi^2/\text{NDF}$ : 45.8/21

Right Out: 304.817 $\pm$ 1517.834  $\chi^2/\text{NDF}$ : 14.4/17

Left In: 76.666 $\pm$ 536.250  $\chi^2/\text{NDF}$ : 31.7/19

Left: -723.230 $\pm$ 372.200  $\chi^2/\text{NDF}$ : 81.8/41

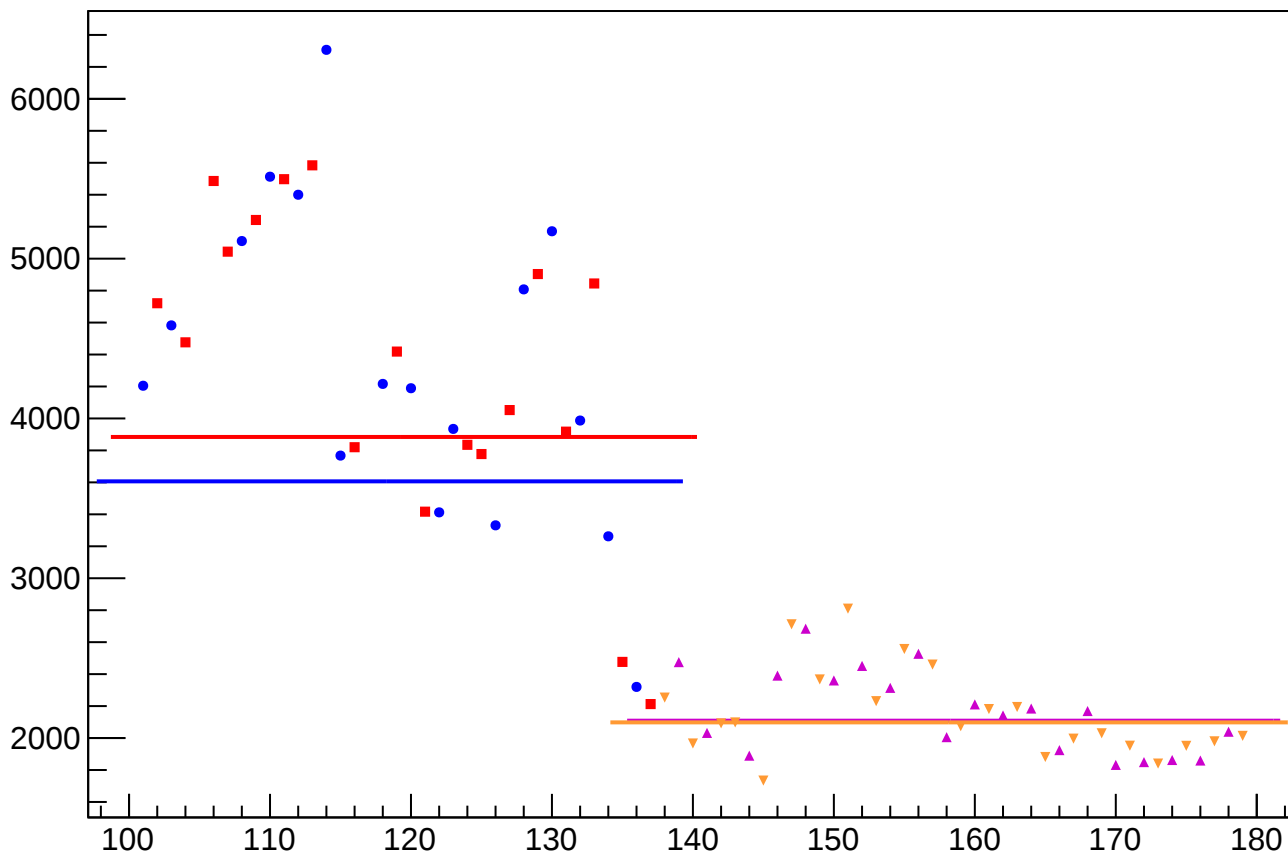
Right: -1246.323 $\pm$ 1050.798  $\chi^2/\text{NDF}$ : 33.1/34

In: -251.816 $\pm$ 503.213  $\chi^2/\text{NDF}$ : 51.6/36

Out: -1282.594 $\pm$ 489.404  $\chi^2/\text{NDF}$ : 61.4/39

All: -781.542 $\pm$ 350.841  $\chi^2/\text{NDF}$ : 115.2/76

asym\_sam2\_correction\_rms vs Slug, Sign Corrected



Right In: 3606.359 $\pm$ 1.030  $\chi^2$ /NDF: 1092516.6/16

Left Out: 2098.038 $\pm$ 0.366  $\chi^2$ /NDF: 456461.4/21

Right Out: 3884.203 $\pm$ 1.073  $\chi^2$ /NDF: 994574.5/17

Left In: 2108.624 $\pm$ 0.379  $\chi^2$ /NDF: 409179.8/19

Left: 2103.137 $\pm$ 0.263  $\chi^2$ /NDF: 866045.2/41

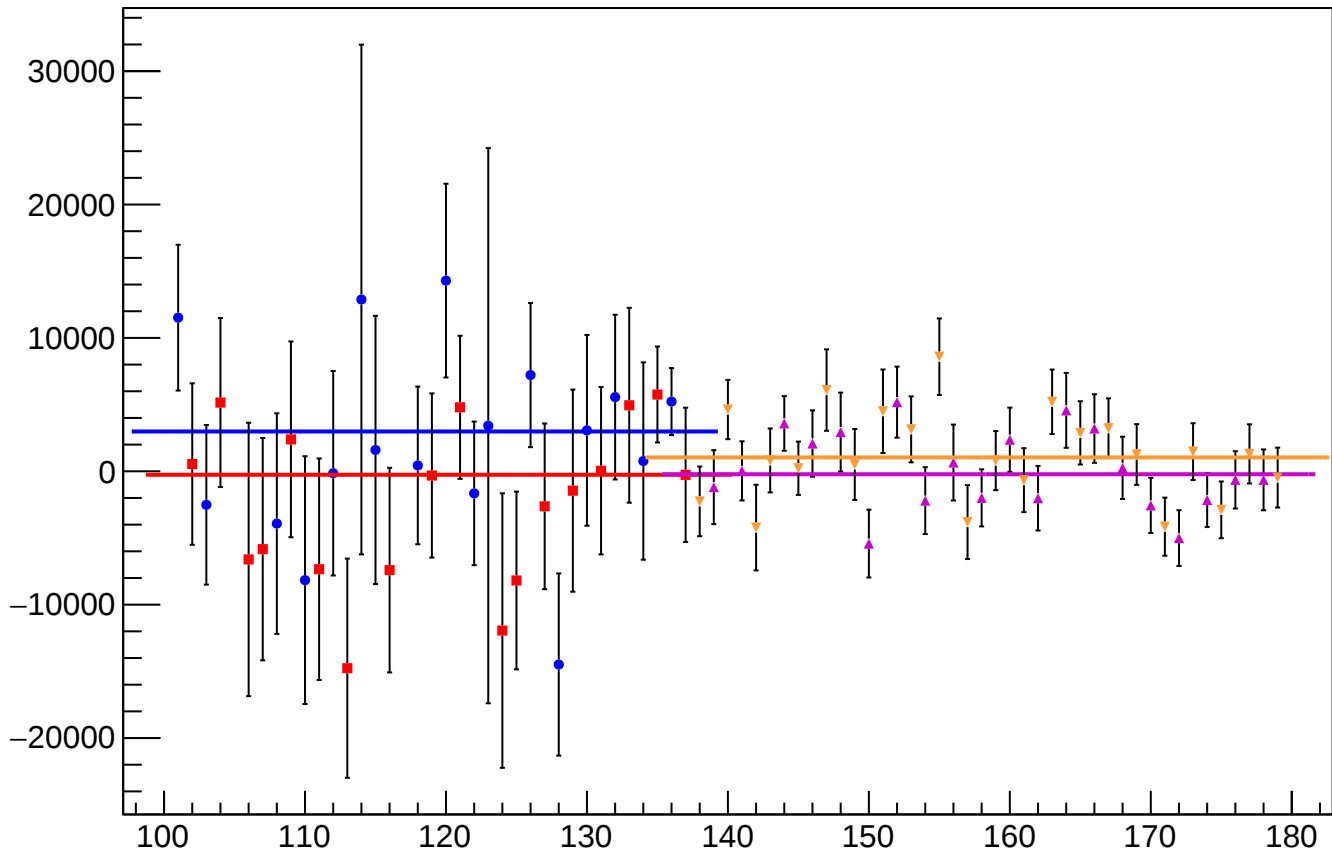
Right: 3739.524 $\pm$ 0.743  $\chi^2$ /NDF: 2121988.0/34

In: 2287.480 $\pm$ 0.356  $\chi^2$ /NDF: 3364792.9/36

Out: 2283.736 $\pm$ 0.346  $\chi^2$ /NDF: 3932740.3/39

All: 2285.556 $\pm$ 0.248  $\chi^2$ /NDF: 7297590.1/76

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2983.609 $\pm$ 1443.630  $\chi^2$ /NDF: 17.4/16

Left Out: 1039.519 $\pm$ 512.303  $\chi^2$ /NDF: 36.4/21

Right Out: -259.721 $\pm$ 1510.344  $\chi^2$ /NDF: 13.5/17

Left In: -220.917 $\pm$ 529.697  $\chi^2$ /NDF: 29.2/19

Left: 430.336 $\pm$ 368.249  $\chi^2$ /NDF: 68.6/41

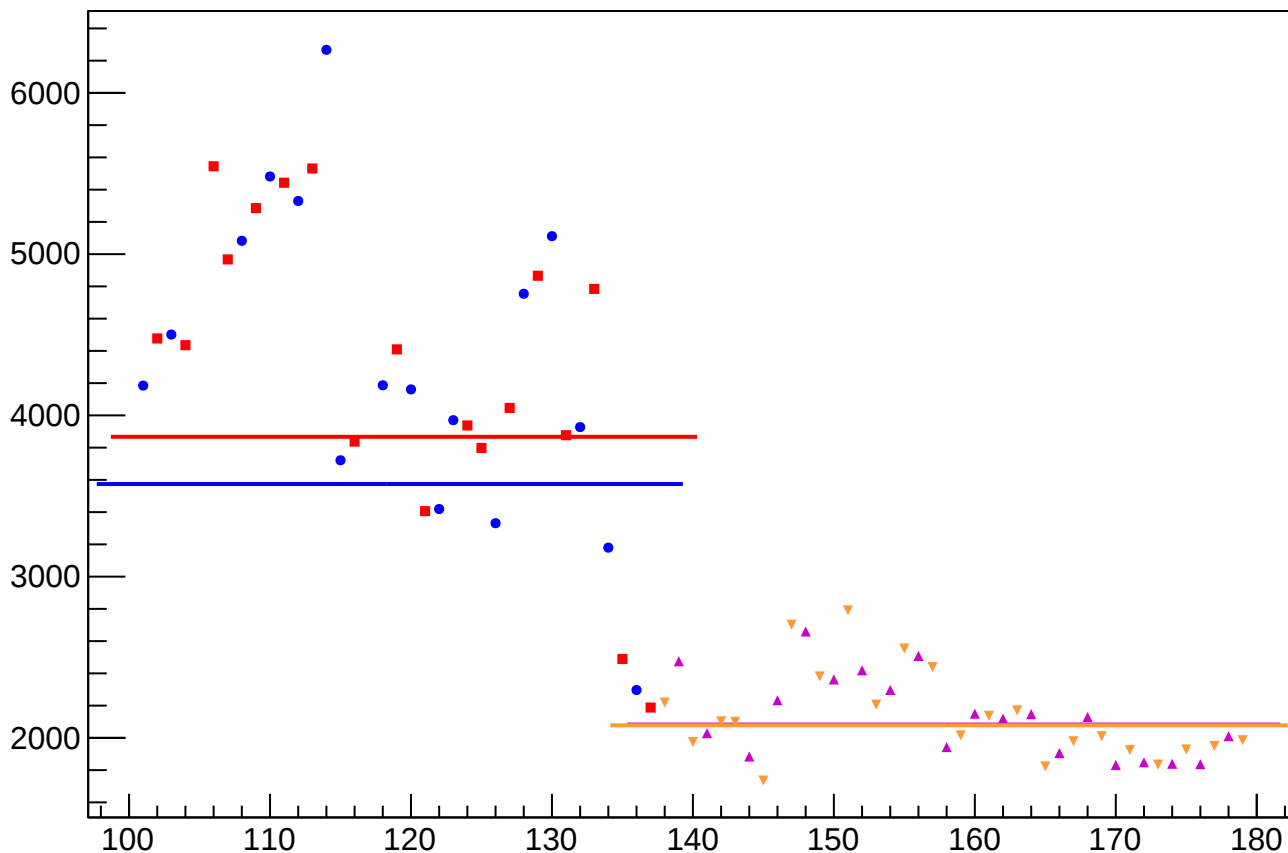
Right: 1435.156 $\pm$ 1043.589  $\chi^2$ /NDF: 33.3/34

In: 159.319 $\pm$ 497.279  $\chi^2$ /NDF: 51.0/36

Out: 905.460 $\pm$ 485.153  $\chi^2$ /NDF: 50.6/39

All: 541.598 $\pm$ 347.263  $\chi^2$ /NDF: 102.8/76

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3574.362+/-1.021  $\chi^2/\text{NDF}$ : 1091350.4/16

Left Out: 2077.746+/-0.362  $\chi^2/\text{NDF}$ : 467457.8/21

Right Out: 3867.232+/-1.068  $\chi^2/\text{NDF}$ : 968137.9/17

Left In: 2082.677+/-0.375  $\chi^2/\text{NDF}$ : 392056.8/19

Left: 2080.129+/-0.260  $\chi^2/\text{NDF}$ : 859604.2/41

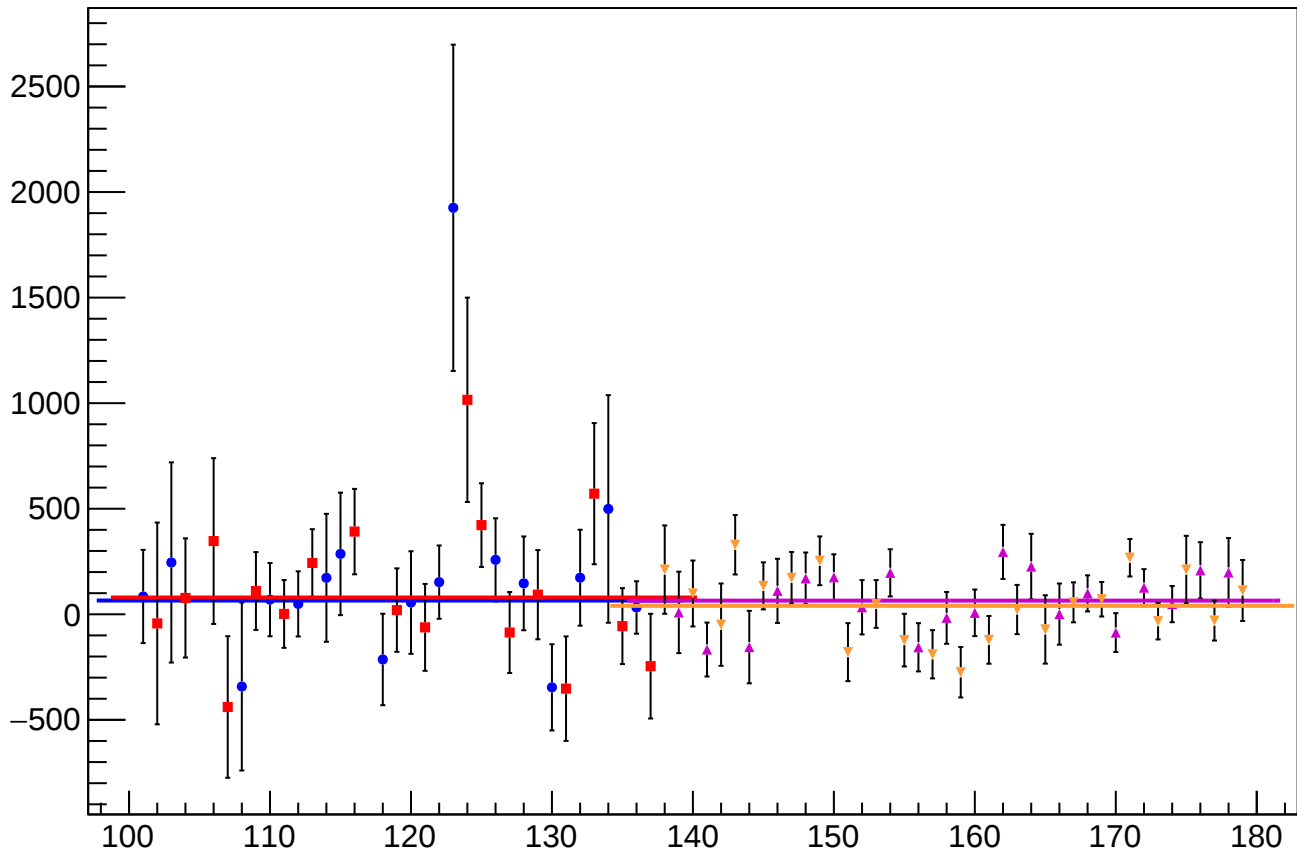
Right: 3714.186+/-0.738  $\chi^2/\text{NDF}$ : 2098786.6/34

In: 2259.674+/-0.352  $\chi^2/\text{NDF}$ : 3365400.8/36

Out: 2262.389+/-0.343  $\chi^2/\text{NDF}$ : 3953497.9/39

All: 2261.065+/-0.246  $\chi^2/\text{NDF}$ : 7318929.2/76

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 65.225 $\pm$ 52.700  $\chi^2$ /NDF: 15.7/16

Left Out: 40.000 $\pm$ 24.876  $\chi^2$ /NDF: 37.7/21

Right Out: 79.473 $\pm$ 52.344  $\chi^2$ /NDF: 22.2/17

Left In: 64.793 $\pm$ 26.292  $\chi^2$ /NDF: 22.5/19

Left: 51.711 $\pm$ 18.070  $\chi^2$ /NDF: 60.7/41

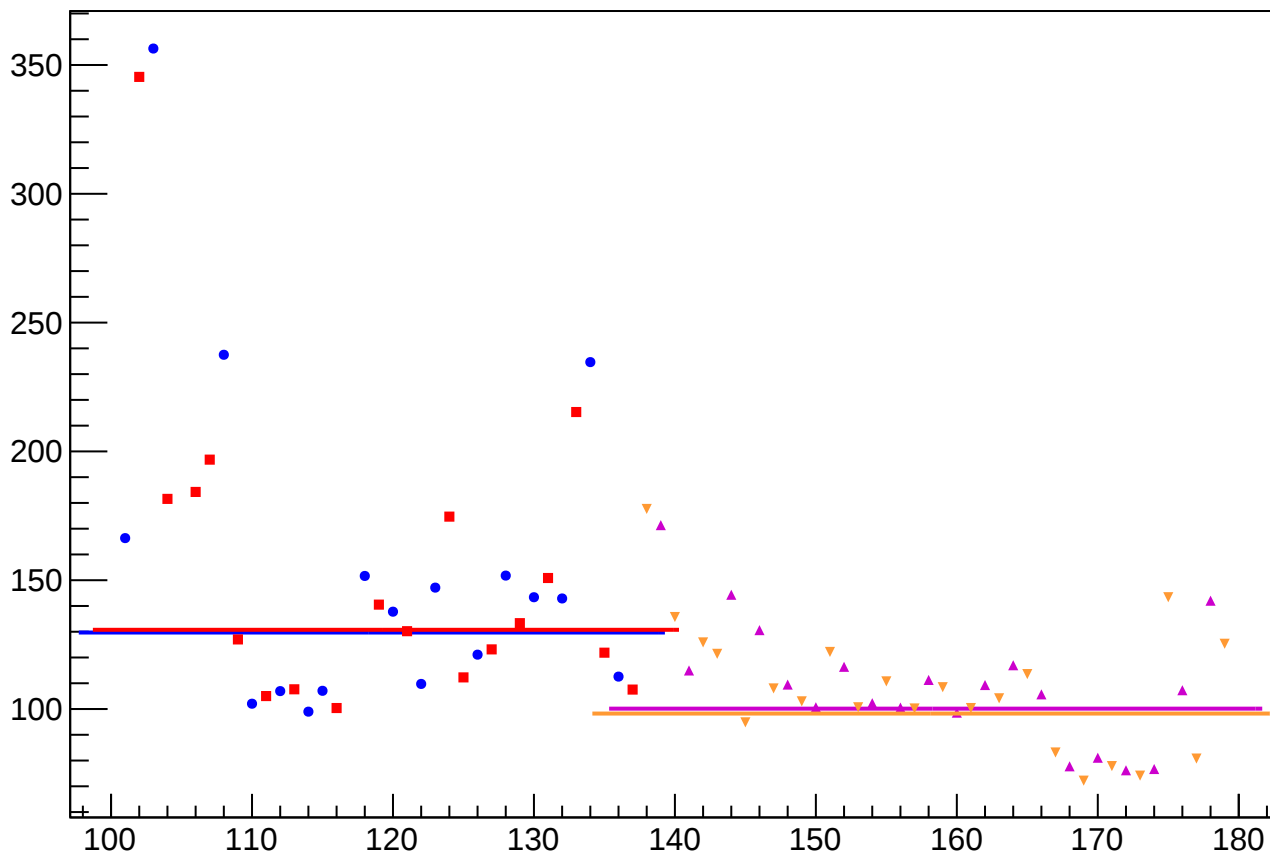
Right: 72.397 $\pm$ 37.138  $\chi^2$ /NDF: 37.9/34

In: 64.879 $\pm$ 23.527  $\chi^2$ /NDF: 38.2/36

Out: 47.273 $\pm$ 22.468  $\chi^2$ /NDF: 60.4/39

All: 55.671 $\pm$ 16.249  $\chi^2$ /NDF: 98.9/76

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 98.239 $\pm$ 0.018  $\chi^2$ /NDF:1449485.9/21

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

Left In: 100.143 $\pm$ 0.019  $\chi^2$ /NDF:1269474.5/19

Left: 99.138 $\pm$ 0.013  $\chi^2$ /NDF: 2724494.8/41

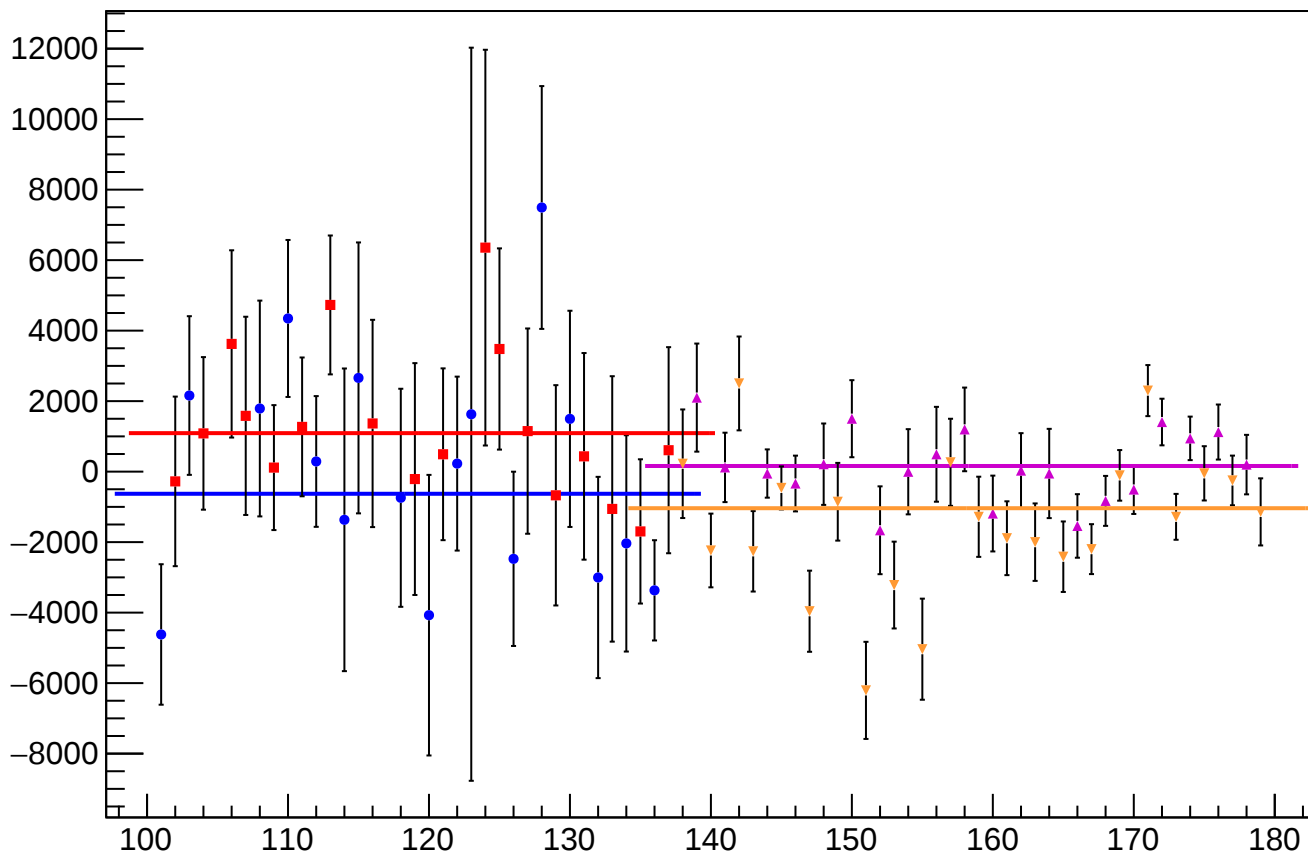
Right: 130.228 $\pm$ 0.026  $\chi^2$ /NDF: 1917619.9/34

In: 106.033 $\pm$ 0.017  $\chi^2$ /NDF:2762773.4/36

Out: 104.229 $\pm$ 0.016  $\chi^2$ /NDF:3006469.1/39

All: 105.090 $\pm$ 0.011  $\chi^2$ /NDF: 5775390.1/76

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



Right In: -628.175 $\pm$ 621.486  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: -1037.753 $\pm$ 196.982  $\chi^2/\text{NDF}$ : 75.7/21

Right Out: 1091.945 $\pm$ 599.483  $\chi^2/\text{NDF}$ : 9.4/17

Left In: 160.044 $\pm$ 199.994  $\chi^2/\text{NDF}$ : 21.3/19

Left: -447.944 $\pm$ 140.340  $\chi^2/\text{NDF}$ : 115.2/41

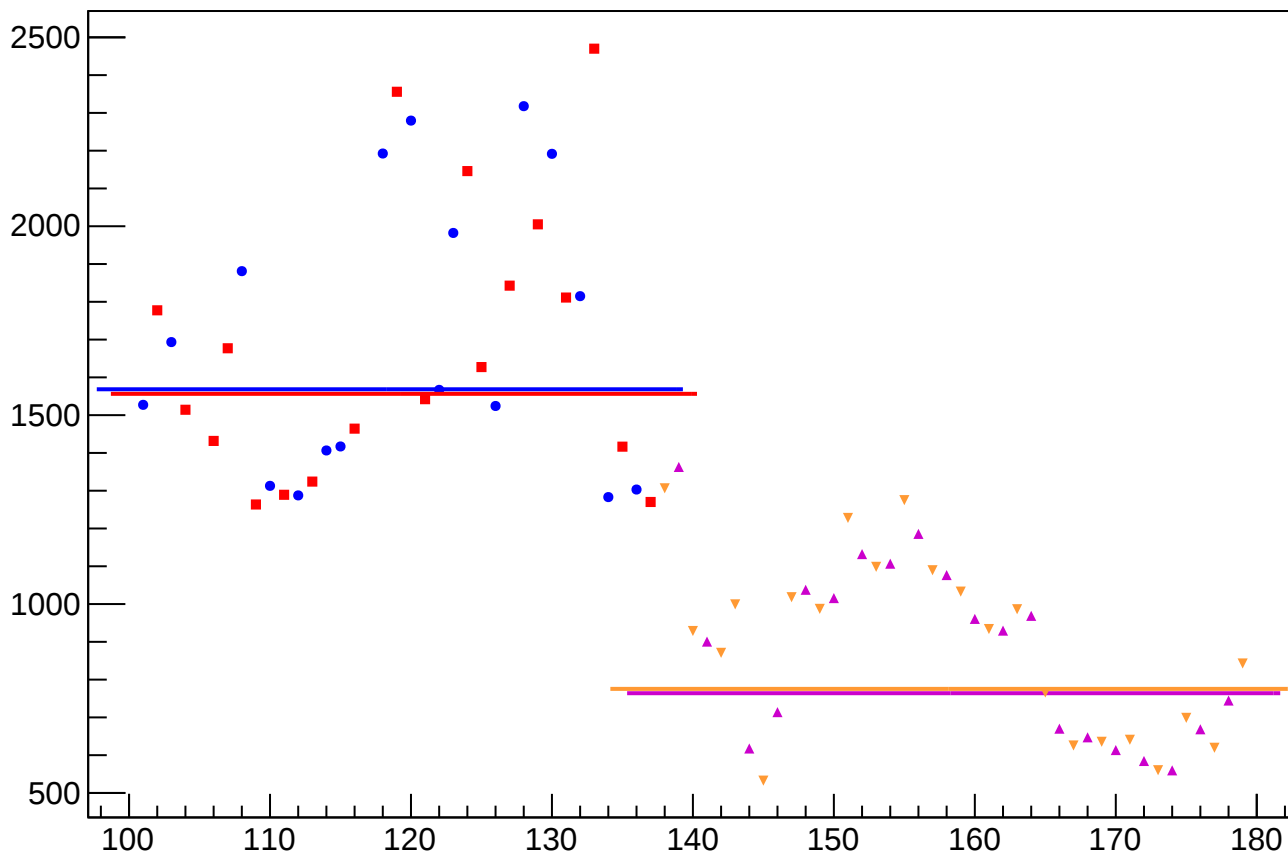
Right: 262.874 $\pm$ 431.468  $\chi^2/\text{NDF}$ : 37.6/34

In: 86.079 $\pm$ 190.380  $\chi^2/\text{NDF}$ : 47.1/36

Out: -830.218 $\pm$ 187.138  $\chi^2/\text{NDF}$ : 96.4/39

All: -379.937 $\pm$ 133.458  $\chi^2/\text{NDF}$ : 155.3/76

asym\_sam3\_correction\_rms vs Slug, Sign Corrected



Right In: 1568.480+/-0.439  $\chi^2/\text{NDF}$ : 534197.6/16

Left Out: 775.487+/-0.139  $\chi^2/\text{NDF}$ : 2375086.4/21

Right Out: 1556.423+/-0.424  $\chi^2/\text{NDF}$ : 510453.6/17

Left In: 764.016+/-0.141  $\chi^2/\text{NDF}$ : 2067757.6/19

Left: 769.838+/-0.099  $\chi^2/\text{NDF}$ : 4446183.9/41

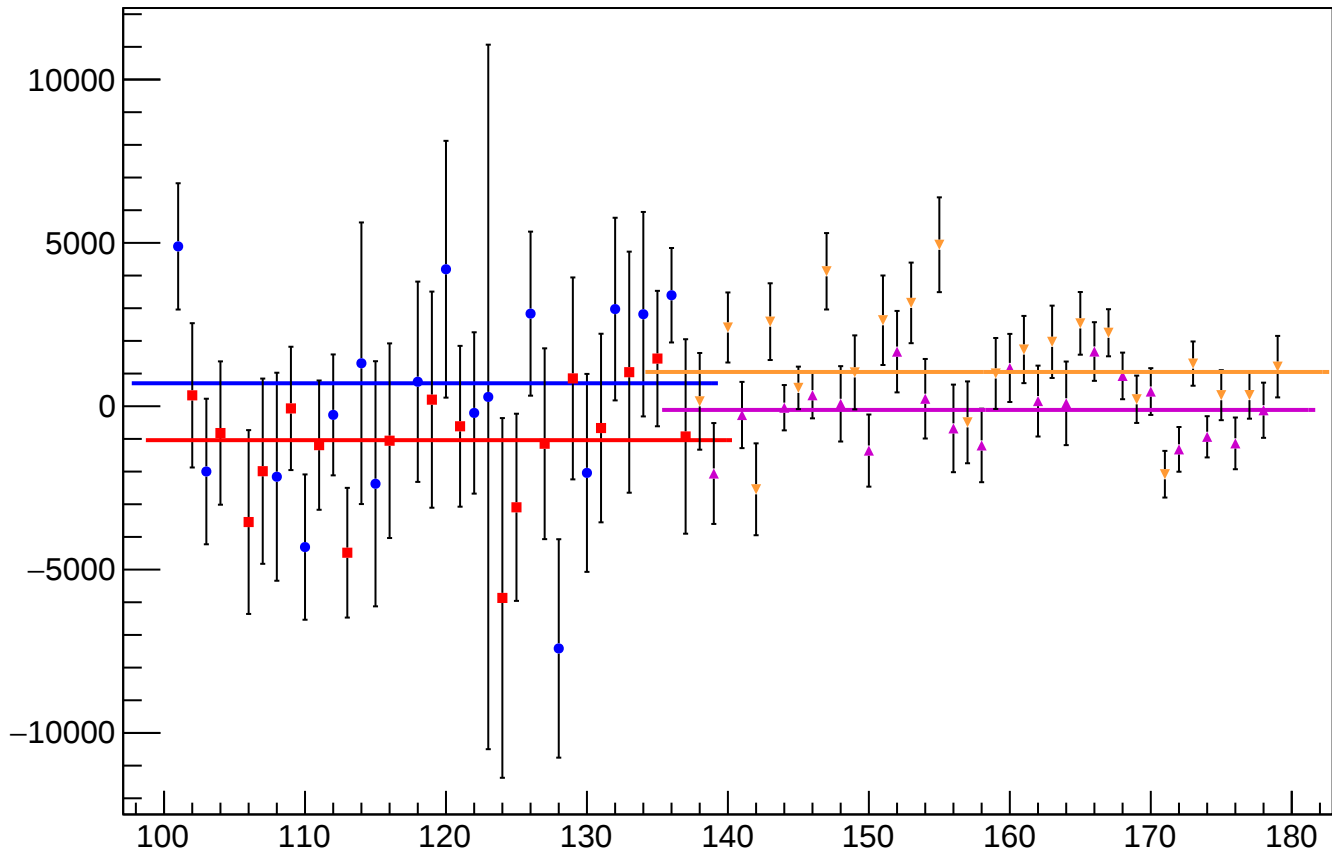
Right: 1562.235+/-0.305  $\chi^2/\text{NDF}$ : 1045041.2/34

In: 839.505+/-0.135  $\chi^2/\text{NDF}$ : 5638547.4/36

Out: 851.587+/-0.132  $\chi^2/\text{NDF}$ : 5948774.9/39

All: 845.650+/-0.094  $\chi^2/\text{NDF}$ : 11591419.4/76

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 703.057+/-620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1049.113+/-199.397  $\chi^2/\text{NDF}$ : 59.6/21

Right Out: -1038.423+/-604.250  $\chi^2/\text{NDF}$ : 8.2/17

Left In: -112.804+/-200.440  $\chi^2/\text{NDF}$ : 21.4/19

Left: 471.188+/-141.362  $\chi^2/\text{NDF}$ : 97.8/41

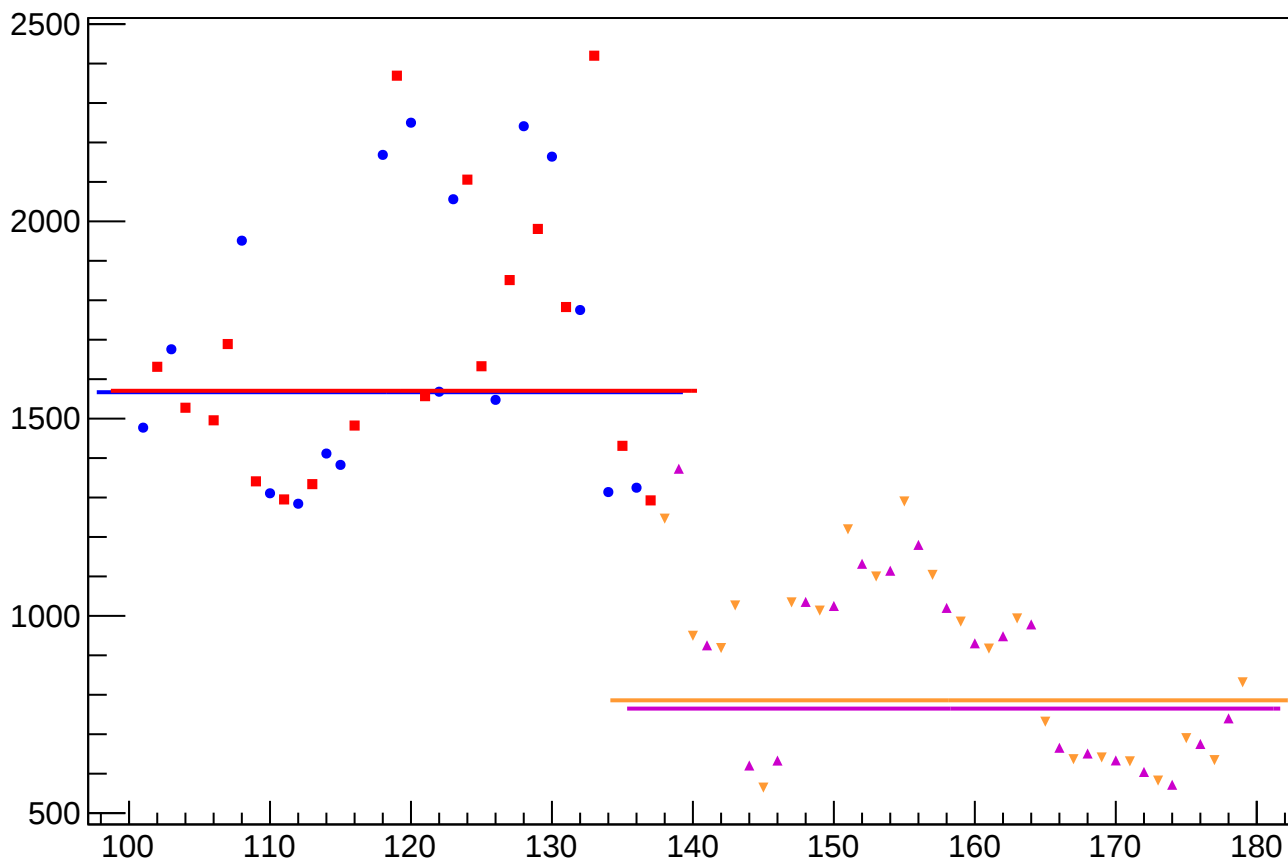
Right: -190.951+/-432.940  $\chi^2/\text{NDF}$ : 38.2/34

In: -35.740+/-190.739  $\chi^2/\text{NDF}$ : 48.9/36

Out: 844.116+/-189.353  $\chi^2/\text{NDF}$ : 78.5/39

All: 407.396+/-134.380  $\chi^2/\text{NDF}$ : 138.2/76

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 785.939 $\pm$ 0.141  $\chi^2$ /NDF: 2184962.2/21

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

Left In: 764.962 $\pm$ 0.142  $\chi^2$ /NDF: 2000650.0/19

Left: 775.505 $\pm$ 0.100  $\chi^2$ /NDF: 4196621.7/41

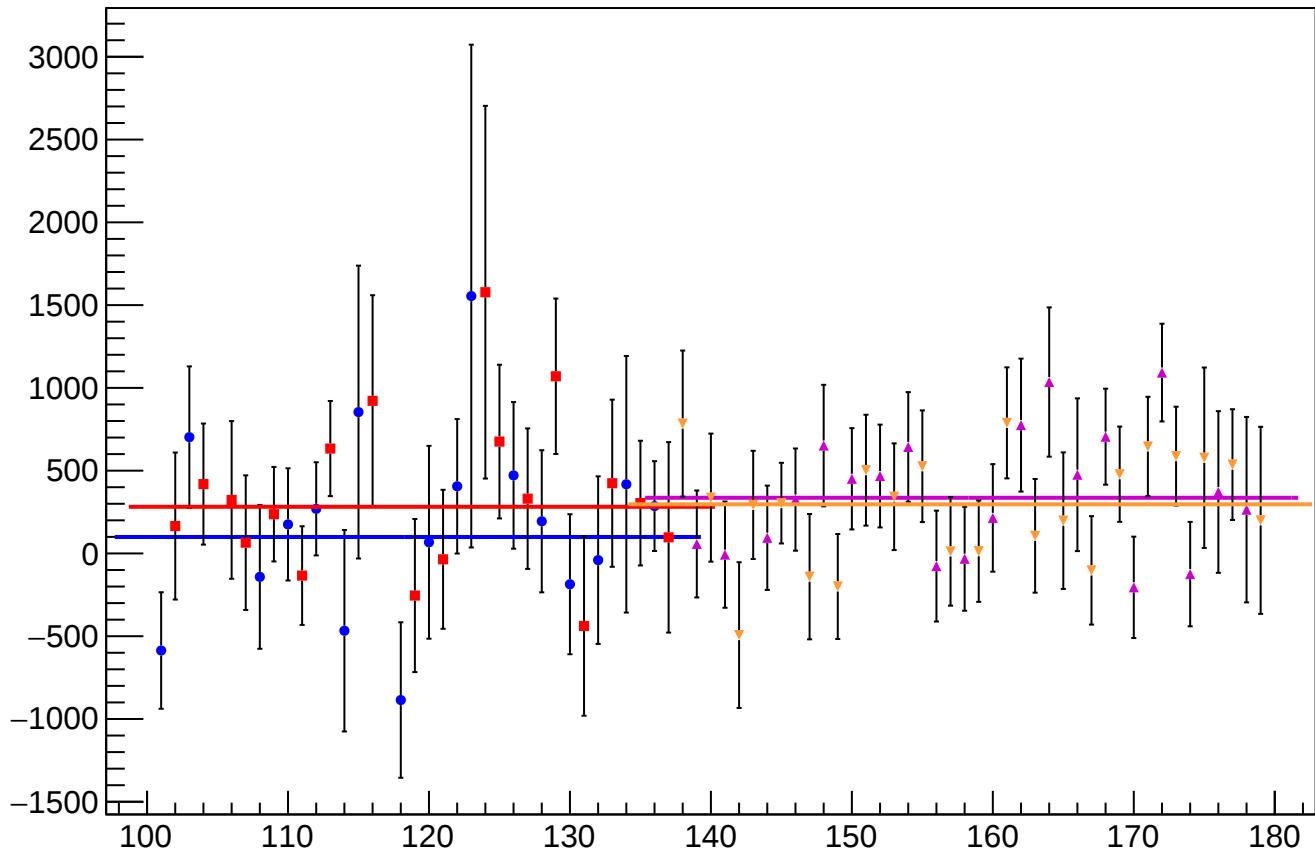
Right: 1568.791 $\pm$ 0.306  $\chi^2$ /NDF: 939142.0/34

In: 840.714 $\pm$ 0.135  $\chi^2$ /NDF: 5524700.9/36

Out: 862.988 $\pm$ 0.134  $\chi^2$ /NDF: 5665208.9/39

All: 851.932 $\pm$ 0.095  $\chi^2$ /NDF: 11203646.5/76

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $296.824 \pm 72.573$   $\chi^2/\text{NDF}$ : 18.2/21

Right Out:  $281.830 \pm 97.880$   $\chi^2/\text{NDF}$ : 13.7/17

Left In:  $336.219 \pm 75.963$   $\chi^2/\text{NDF}$ : 24.6/19

Left:  $315.623 \pm 52.474$   $\chi^2/\text{NDF}$ : 43.0/41

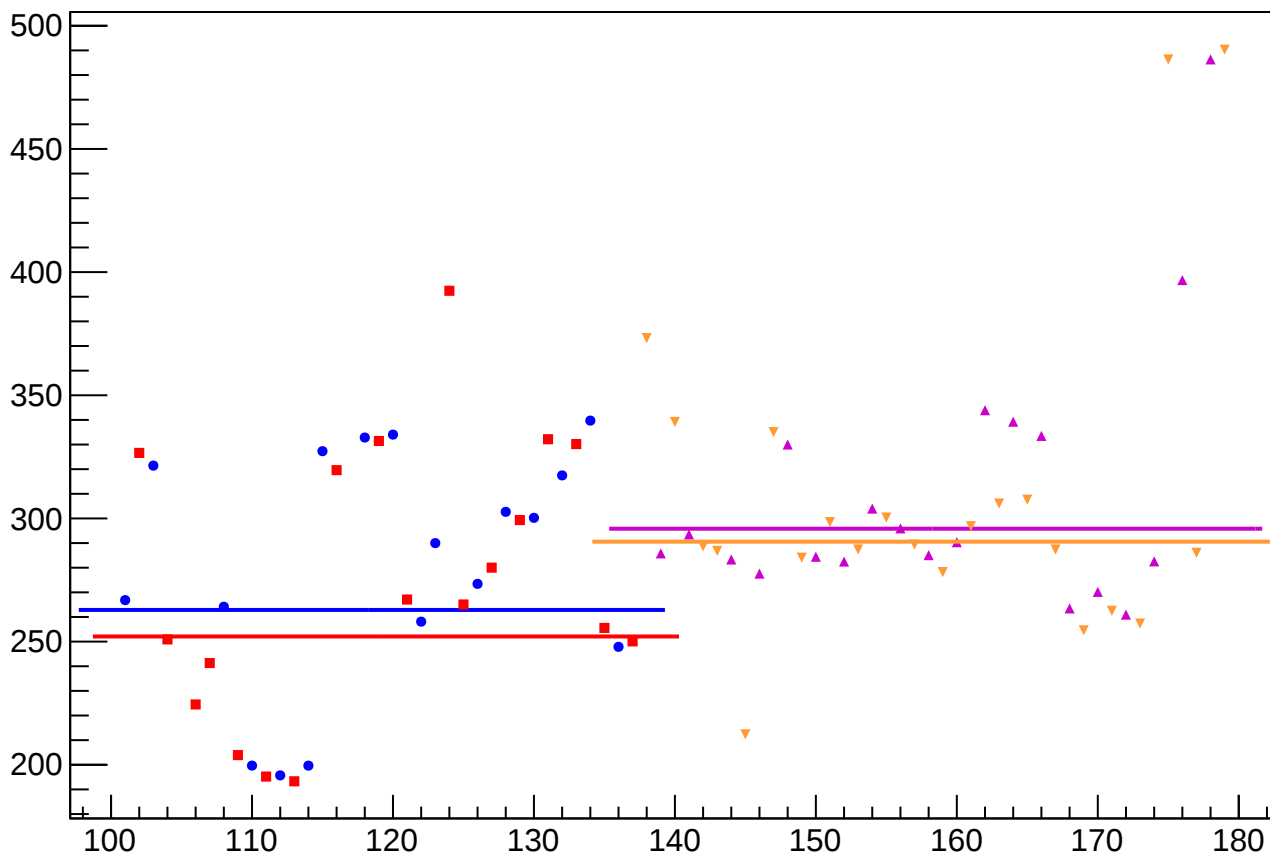
Right:  $195.664 \pm 71.104$   $\chi^2/\text{NDF}$ : 31.3/34

In:  $253.270 \pm 61.231$   $\chi^2/\text{NDF}$ : 43.9/36

Out:  $291.505 \pm 58.297$   $\chi^2/\text{NDF}$ : 32.0/39

All:  $273.325 \pm 42.221$   $\chi^2/\text{NDF}$ : 76.1/76

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 262.856 $\pm$ 0.073  $\chi^2$ /NDF: 411698.3/16

Left Out: 290.569 $\pm$ 0.051  $\chi^2$ /NDF:933367.9/21

Right Out: 252.079 $\pm$ 0.069  $\chi^2$ /NDF: 515150.4/17

Left In: 295.840 $\pm$ 0.054  $\chi^2$ /NDF:487975.6/19

Left: 293.084 $\pm$ 0.037  $\chi^2$ /NDF: 1426377.0/41

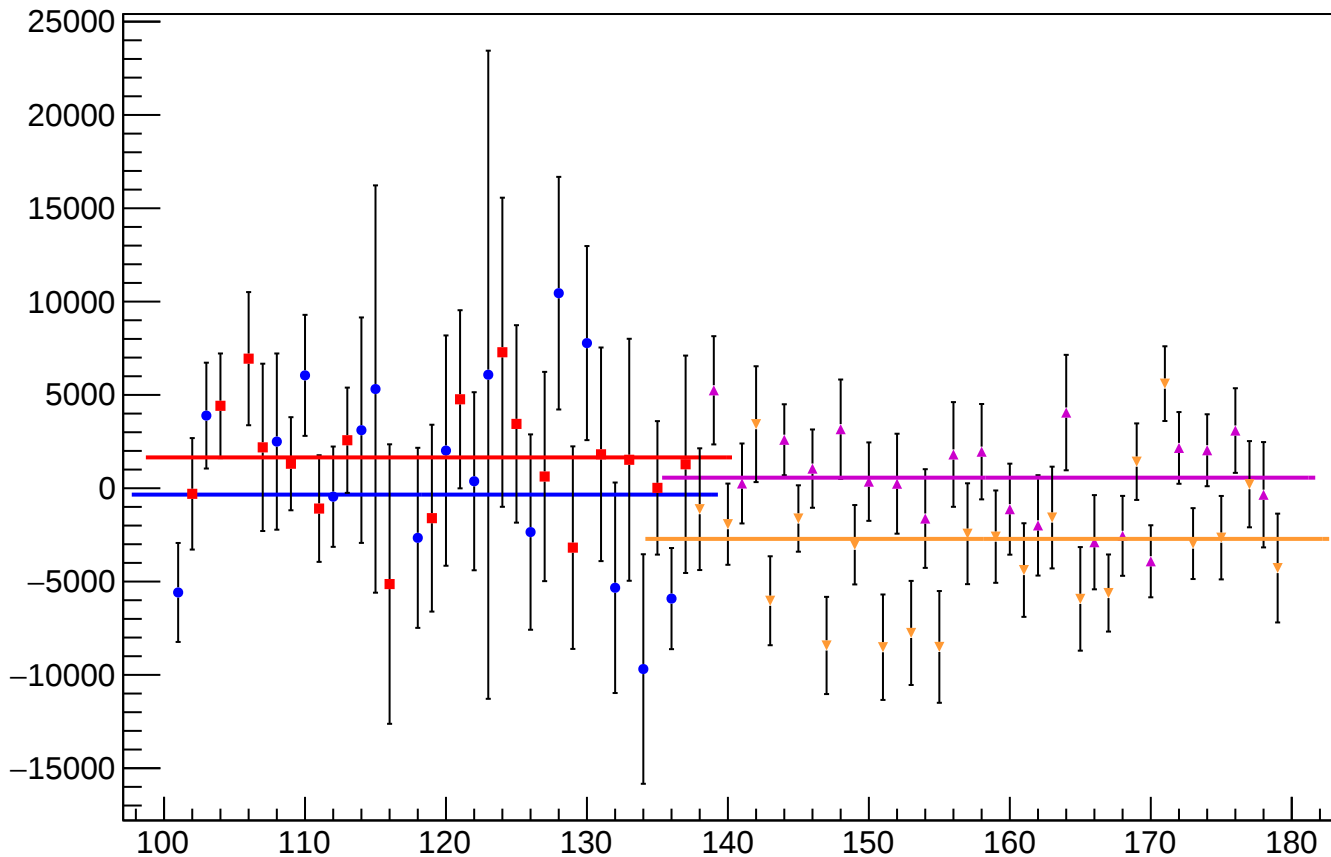
Right: 257.169 $\pm$ 0.050  $\chi^2$ /NDF: 938300.0/34

In: 284.288 $\pm$ 0.043  $\chi^2$ /NDF:1031742.0/36

Out: 276.916 $\pm$ 0.041  $\chi^2$ /NDF:1648080.8/39

All: 280.421 $\pm$ 0.030  $\chi^2$ /NDF: 2695028.5/76

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



Right In: -341.538+/-1004.635  $\chi^2/\text{NDF}$ : 24.4/16

Left Out: -2713.765+/-508.772  $\chi^2/\text{NDF}$ : 49.8/21

Right Out: 1651.954+/-929.858  $\chi^2/\text{NDF}$ : 7.9/17

Left In: 565.738+/-520.871  $\chi^2/\text{NDF}$ : 20.6/19

Left: -1112.545+/-363.959  $\chi^2/\text{NDF}$ : 90.8/41

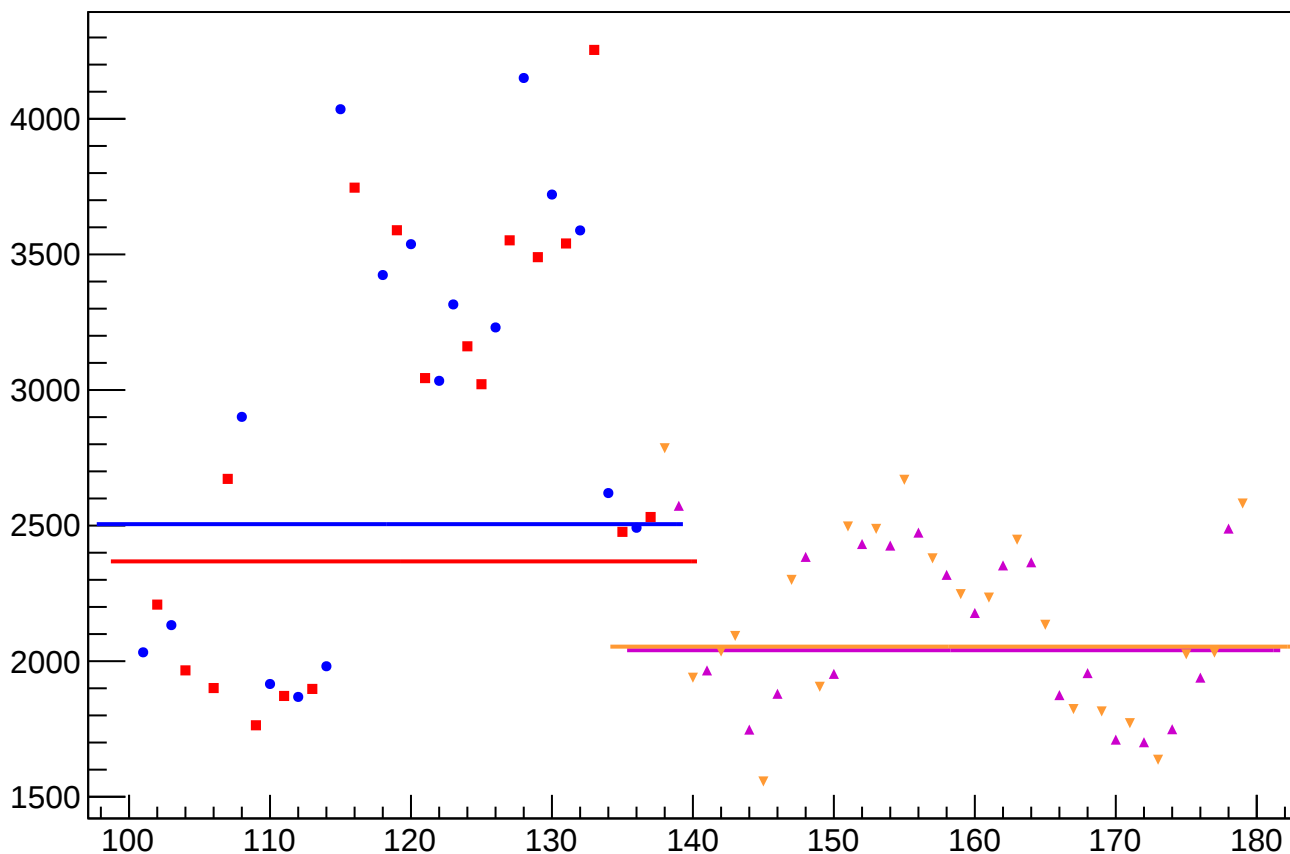
Right: 732.150+/-682.415  $\chi^2/\text{NDF}$ : 34.5/34

In: 373.523+/-462.415  $\chi^2/\text{NDF}$ : 45.7/36

Out: -1707.909+/-446.330  $\chi^2/\text{NDF}$ : 74.8/39

All: -704.024+/-321.139  $\chi^2/\text{NDF}$ : 130.9/76

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2053.654+/-0.360  $\chi^2/\text{NDF}$ : 822290.4/21

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

Left In: 2040.446+/-0.368  $\chi^2/\text{NDF}$ : 610817.9/19

Left: 2047.205+/-0.257  $\chi^2/\text{NDF}$ : 1433766.4/41

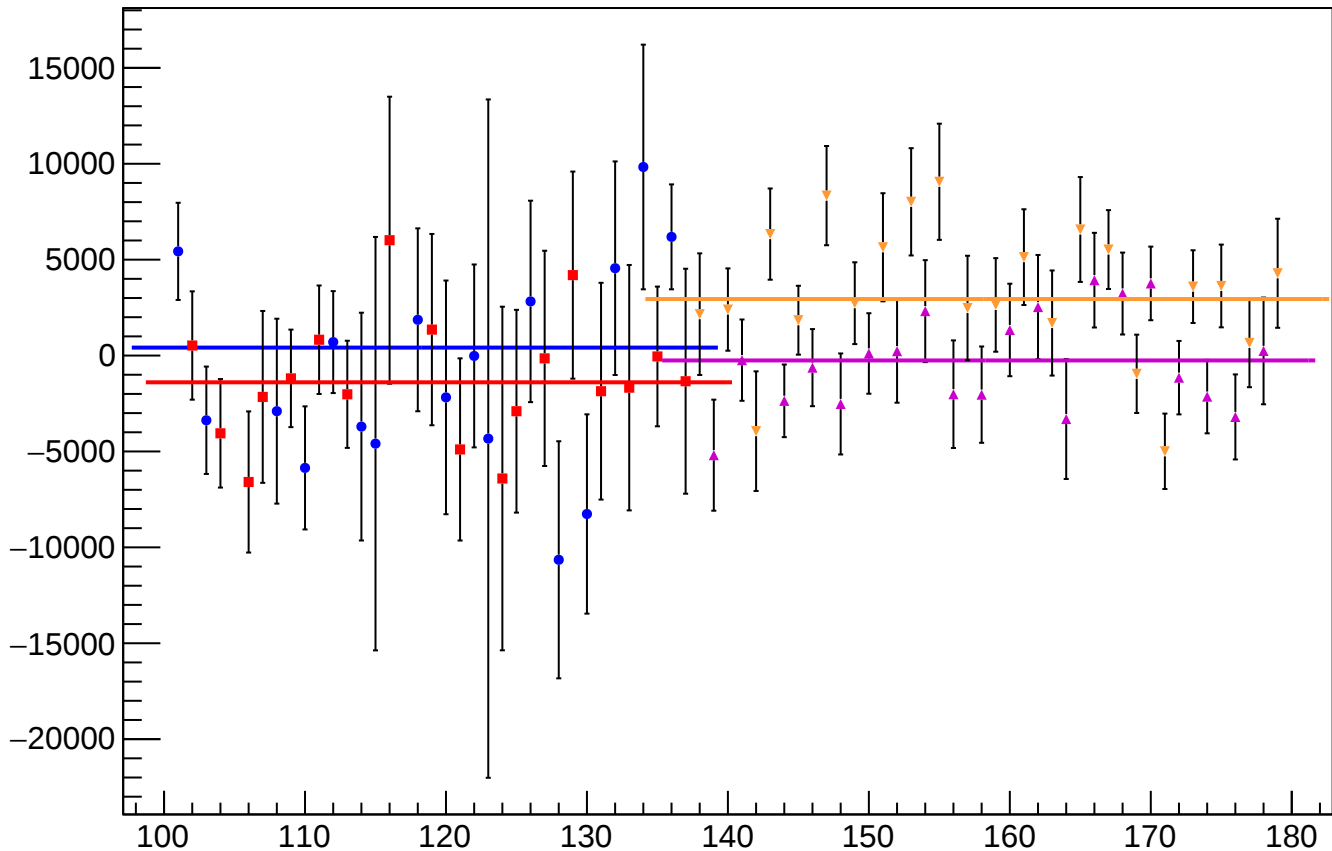
Right: 2431.366+/-0.483  $\chi^2/\text{NDF}$ : 1915141.0/34

In: 2138.936+/-0.327  $\chi^2/\text{NDF}$ : 1812475.9/36

Out: 2126.079+/-0.316  $\chi^2/\text{NDF}$ : 2029079.1/39

All: 2132.280+/-0.227  $\chi^2/\text{NDF}$ : 3842355.4/76

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 415.549 $\pm$ 994.913  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: 2947.285 $\pm$ 505.788  $\chi^2/\text{NDF}$ : 45.8/21

Right Out: -1394.660 $\pm$ 928.996  $\chi^2/\text{NDF}$ : 7.5/17

Left In: -254.387 $\pm$ 516.507  $\chi^2/\text{NDF}$ : 22.2/19

Left: 1380.015 $\pm$ 361.376  $\chi^2/\text{NDF}$ : 87.6/41

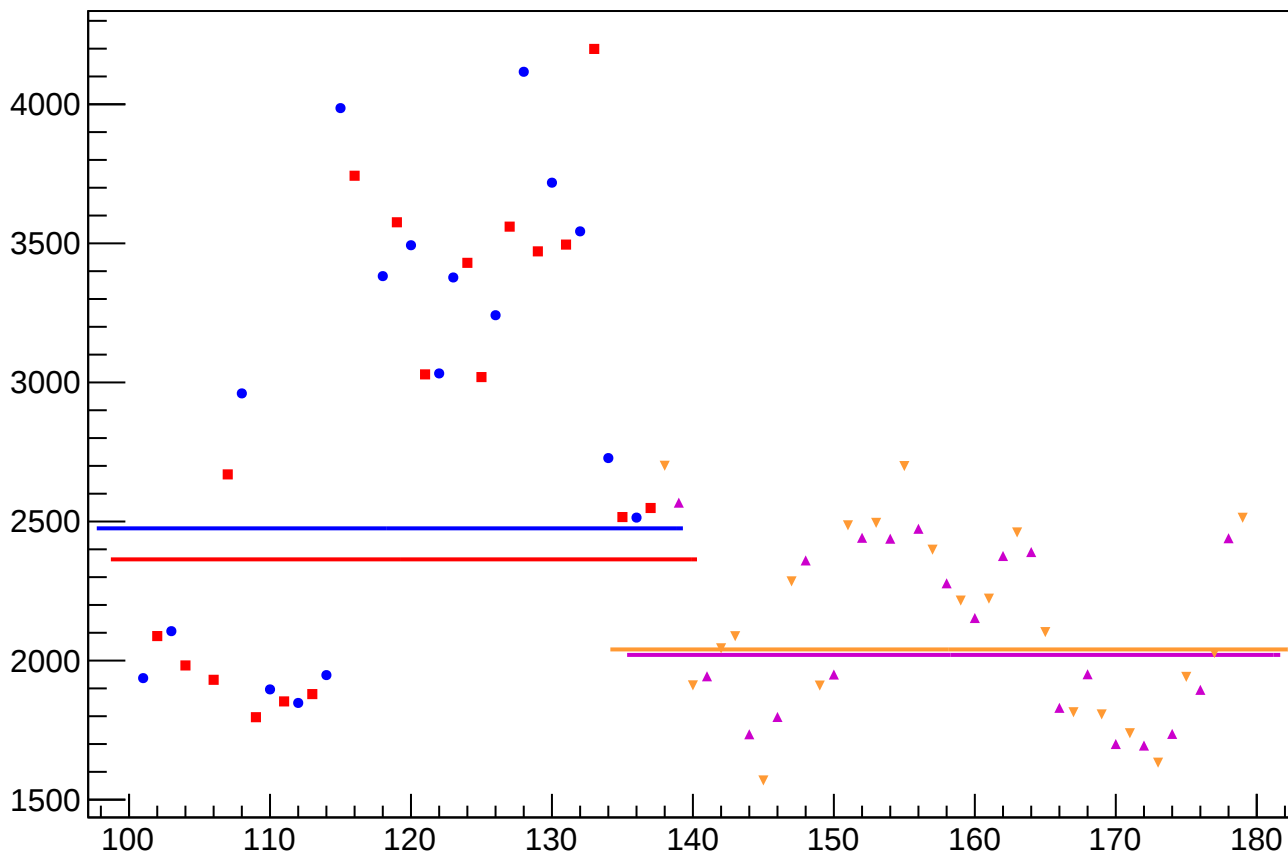
Right: -551.504 $\pm$ 679.008  $\chi^2/\text{NDF}$ : 33.8/34

In: -112.162 $\pm$ 458.413  $\chi^2/\text{NDF}$ : 47.0/36

Out: 1954.517 $\pm$ 444.218  $\chi^2/\text{NDF}$ : 70.2/39

All: 953.673 $\pm$ 319.010  $\chi^2/\text{NDF}$ : 127.7/76

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2475.435 $\pm$ 0.704  $\chi^2$ /NDF: 913073.5/16

Left Out: 2040.118 $\pm$ 0.358  $\chi^2$ /NDF: 808740.8/21

Right Out: 2363.907 $\pm$ 0.657  $\chi^2$ /NDF: 1026875.6/17

Left In: 2020.427 $\pm$ 0.365  $\chi^2$ /NDF: 643420.2/19

Left: 2030.479 $\pm$ 0.256  $\chi^2$ /NDF: 1453644.9/41

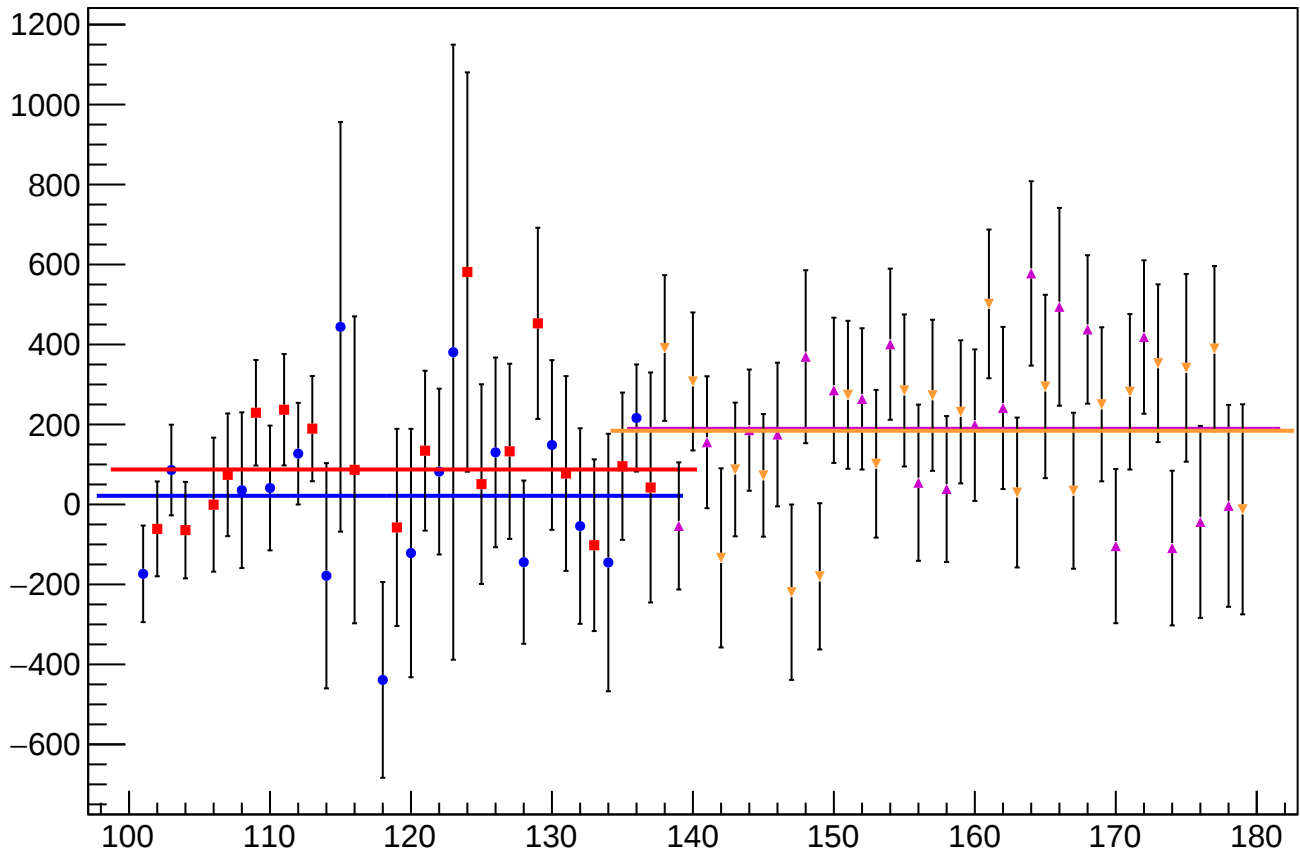
Right: 2415.854 $\pm$ 0.480  $\chi^2$ /NDF: 1953375.1/34

In: 2117.024 $\pm$ 0.324  $\chi^2$ /NDF: 1885996.5/36

Out: 2114.151 $\pm$ 0.314  $\chi^2$ /NDF: 2023020.9/39

All: 2115.542 $\pm$ 0.226  $\chi^2$ /NDF: 3909058.0/76

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 21.649 $\pm$ 45.157  $\chi^2$ /NDF: 12.6/16

Left Out: 184.240 $\pm$ 40.958  $\chi^2$ /NDF:20.6/21

Right Out: 87.439 $\pm$ 41.826  $\chi^2$ /NDF: 10.9/17

Left In: 189.068 $\pm$ 42.678  $\chi^2$ /NDF:19.8/19

Left: 186.554 $\pm$ 29.551  $\chi^2$ /NDF: 40.4/41

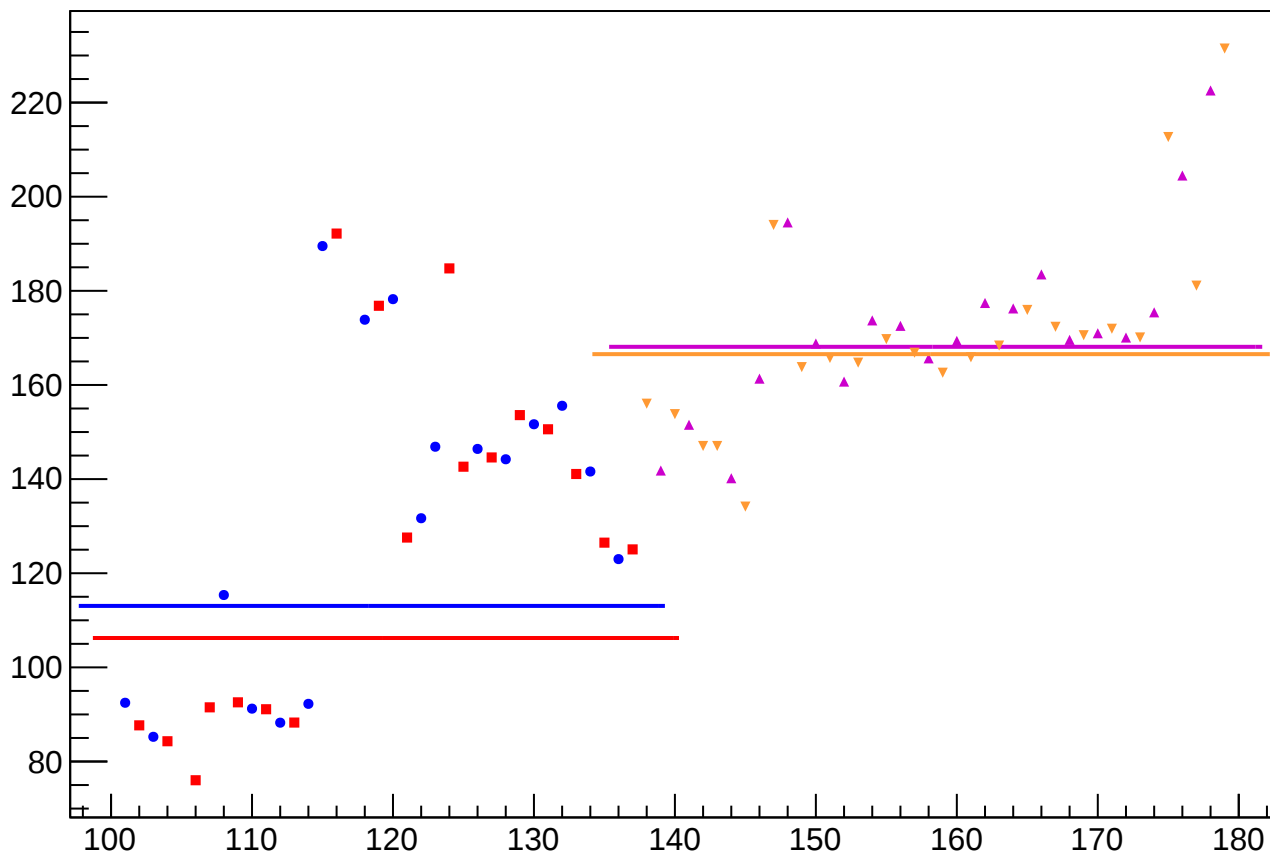
Right: 57.059 $\pm$ 30.686  $\chi^2$ /NDF: 24.7/34

In: 110.078 $\pm$ 31.017  $\chi^2$ /NDF:39.7/36

Out: 136.855 $\pm$ 29.264  $\chi^2$ /NDF:34.2/39

All: 124.245 $\pm$ 21.286  $\chi^2$ /NDF: 74.3/76

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 113.059+/-0.032  $\chi^2/\text{NDF}$ : 820795.9/16

Left Out: 166.549+/-0.029  $\chi^2/\text{NDF}$ : 400650.4/21

Right Out: 106.240+/-0.030  $\chi^2/\text{NDF}$ : 951702.9/17

Left In: 168.107+/-0.030  $\chi^2/\text{NDF}$ : 339330.3/19

Left: 167.296+/-0.021  $\chi^2/\text{NDF}$ : 741367.5/41

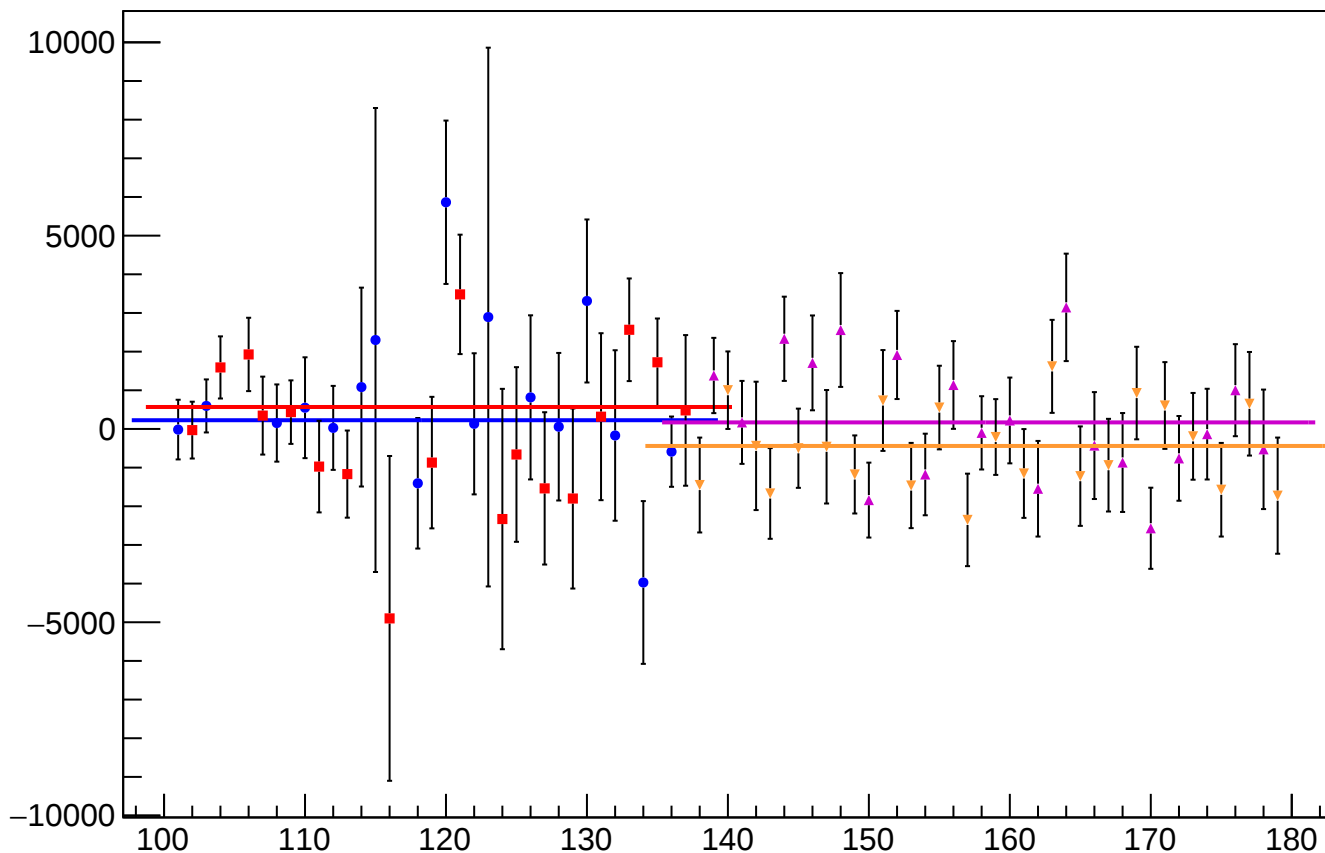
Right: 109.389+/-0.022  $\chi^2/\text{NDF}$ : 1797042.6/34

In: 142.135+/-0.022  $\chi^2/\text{NDF}$ : 2729982.2/36

Out: 137.027+/-0.021  $\chi^2/\text{NDF}$ : 3475015.2/39

All: 139.433+/-0.015  $\chi^2/\text{NDF}$ : 6233687.4/76

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



Right In: 225.635 $\pm$ 321.412  $\chi^2$ /NDF: 16.0/16

Left Out: -439.864 $\pm$ 251.014  $\chi^2$ /NDF:17.9/21

Right Out: 568.109 $\pm$ 290.500  $\chi^2$ /NDF: 21.0/17

Left In: 169.334 $\pm$ 256.284  $\chi^2$ /NDF:34.4/19

Left: -141.593 $\pm$ 179.328  $\chi^2$ /NDF: 55.2/41

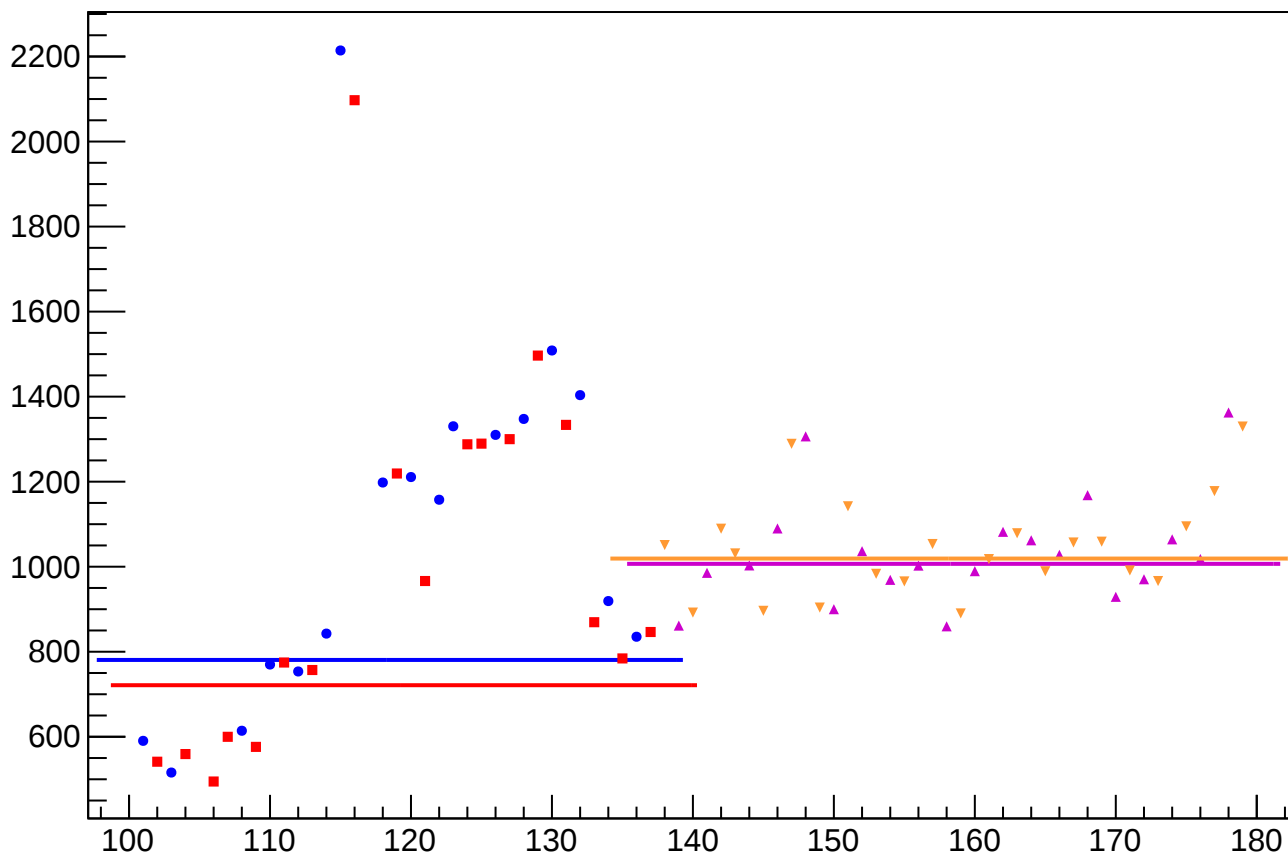
Right: 414.129 $\pm$ 215.517  $\chi^2$ /NDF: 37.6/34

In: 191.217 $\pm$ 200.381  $\chi^2$ /NDF:50.4/36

Out: -8.988 $\pm$ 189.932  $\chi^2$ /NDF:45.7/39

All: 85.759 $\pm$ 137.848  $\chi^2$ /NDF: 96.7/76

asym\_sam5\_correction\_rms vs Slug, Sign Corrected



Right In: 780.700 $\pm$ 0.227  $\chi^2$ /NDF: 1609510.2/16

Left Out: 1019.149 $\pm$ 0.177  $\chi^2$ /NDF: 358049.8/21

Right Out: 721.264 $\pm$ 0.205  $\chi^2$ /NDF: 1626627.9/17

Left In: 1006.720 $\pm$ 0.181  $\chi^2$ /NDF: 381456.6/19

Left: 1013.064 $\pm$ 0.127  $\chi^2$ /NDF: 741907.1/41

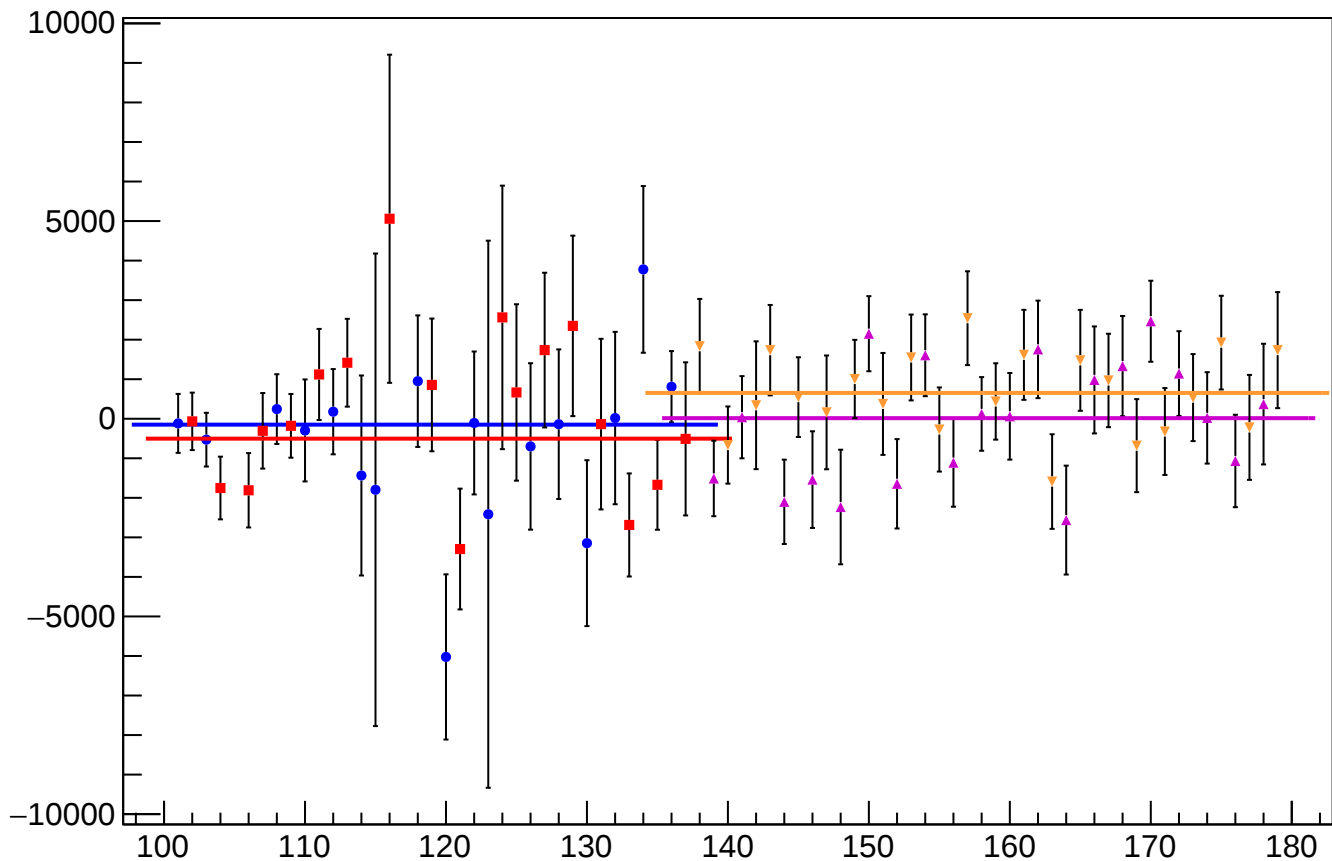
Right: 747.987 $\pm$ 0.152  $\chi^2$ /NDF: 3273780.9/34

In: 918.871 $\pm$ 0.142  $\chi^2$ /NDF: 2595570.0/36

Out: 891.812 $\pm$ 0.134  $\chi^2$ /NDF: 3188701.5/39

All: 904.618 $\pm$ 0.097  $\chi^2$ /NDF: 5803481.9/76

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $653.754 \pm 246.764$   $\chi^2/\text{NDF}$ : 17.0/21

Right Out:  $-503.162 \pm 285.781$   $\chi^2/\text{NDF}$ : 23.6/17

Left In:  $14.893 \pm 251.964$   $\chi^2/\text{NDF}$ : 36.0/19

Left:  $340.983 \pm 176.298$   $\chi^2/\text{NDF}$ : 56.2/41

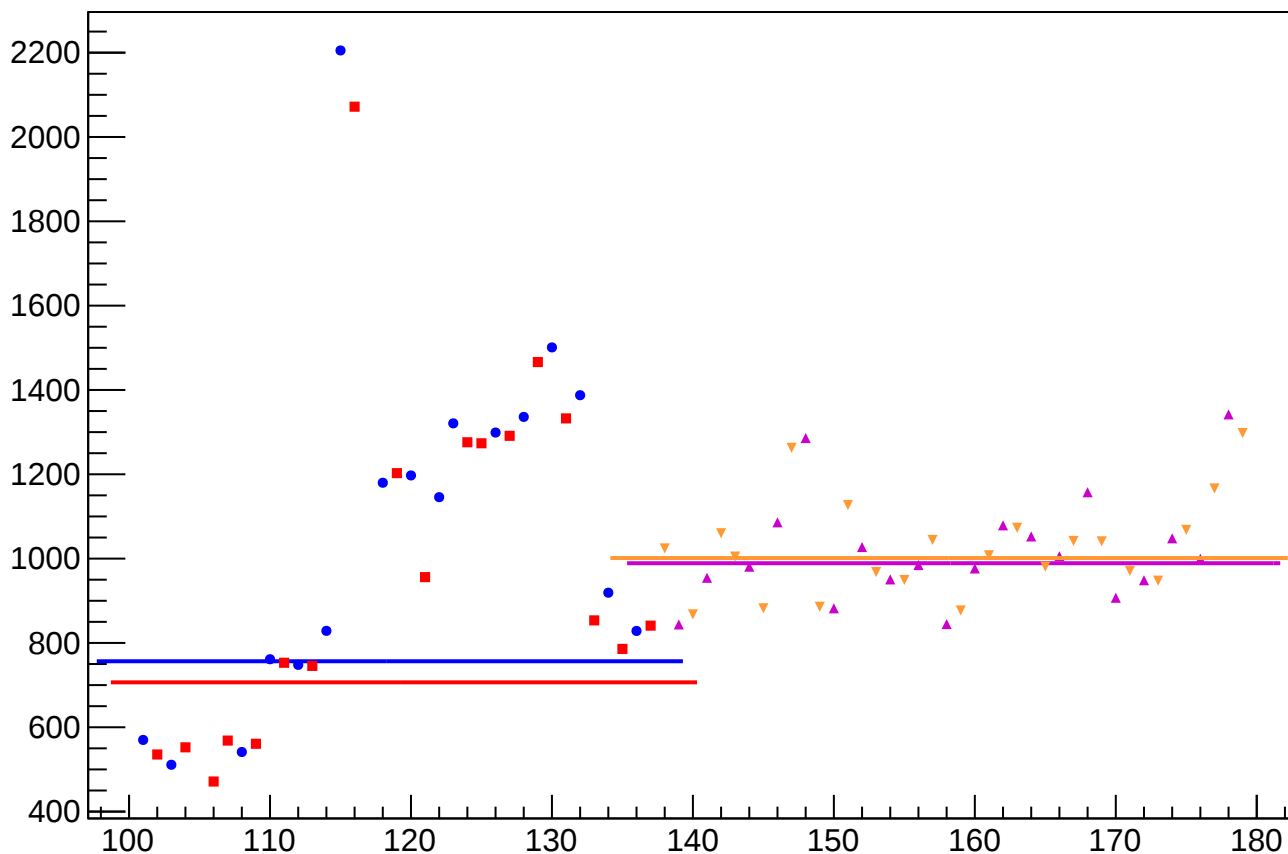
Right:  $-342.200 \pm 211.034$   $\chi^2/\text{NDF}$ : 40.4/34

In:  $-49.625 \pm 196.262$   $\chi^2/\text{NDF}$ : 52.2/36

Out:  $159.605 \pm 186.772$   $\chi^2/\text{NDF}$ : 50.0/39

All:  $60.171 \pm 135.298$   $\chi^2/\text{NDF}$ : 102.8/76

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.539 $\pm$ 0.221  $\chi^2$ /NDF: 1713642.0/16

Left Out: 1001.367 $\pm$ 0.174  $\chi^2$ /NDF: 361068.5/21

Right Out: 706.550 $\pm$ 0.202  $\chi^2$ /NDF: 1670007.9/17

Left In: 989.078 $\pm$ 0.178  $\chi^2$ /NDF: 402370.5/19

Left: 995.350 $\pm$ 0.125  $\chi^2$ /NDF: 765867.3/41

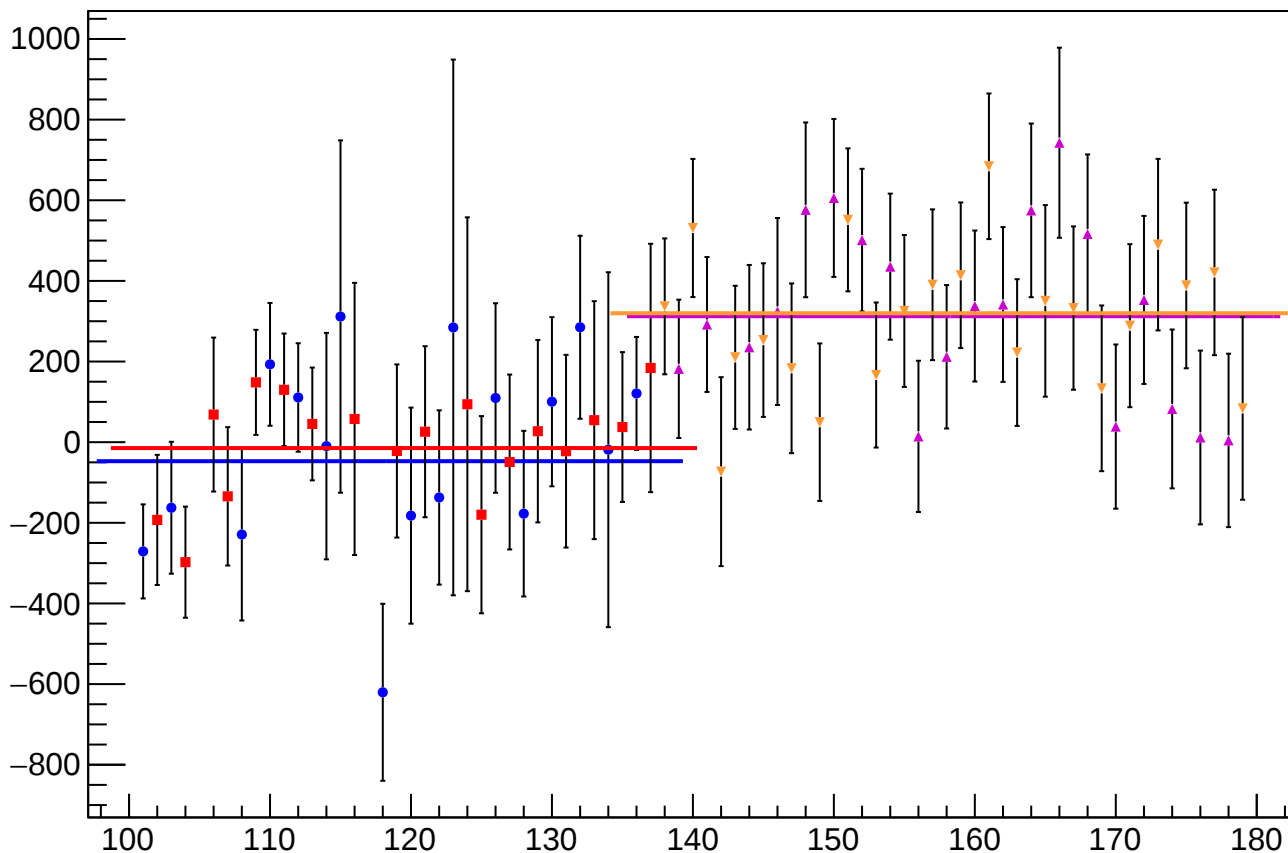
Right: 729.280 $\pm$ 0.149  $\chi^2$ /NDF: 3411474.4/34

In: 897.628 $\pm$ 0.139  $\chi^2$ /NDF: 2785948.6/36

Out: 875.443 $\pm$ 0.132  $\chi^2$ /NDF: 3250422.1/39

All: 885.986 $\pm$ 0.096  $\chi^2$ /NDF: 6049781.1/76

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $319.802 \pm 41.312$   $\chi^2/\text{NDF}: 17.3/21$

Right Out:  $-14.620 \pm 44.849$   $\chi^2/\text{NDF}: 10.1/17$

Left In:  $312.433 \pm 43.890$   $\chi^2/\text{NDF}: 22.0/19$

Left:  $316.340 \pm 30.082$   $\chi^2/\text{NDF}: 39.4/41$

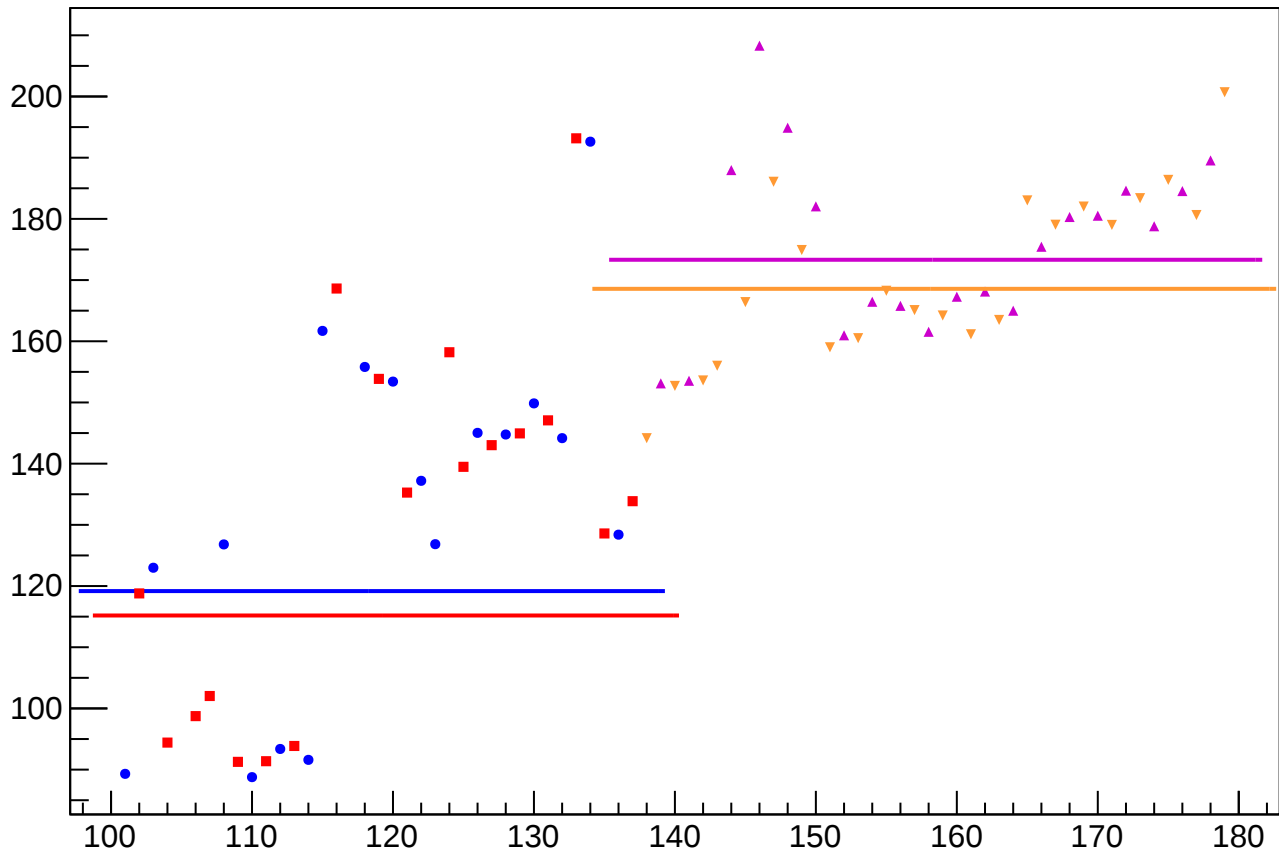
Right:  $-30.035 \pm 32.535$   $\chi^2/\text{NDF}: 32.3/34$

In:  $145.946 \pm 32.163$   $\chi^2/\text{NDF}: 75.0/36$

Out:  $166.296 \pm 30.386$   $\chi^2/\text{NDF}: 57.6/39$

All:  $156.699 \pm 22.088$   $\chi^2/\text{NDF}: 132.8/76$

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 119.175+/-0.033  $\chi^2/\text{NDF}$ : 615304.2/16

Left Out: 168.570+/-0.029  $\chi^2/\text{NDF}$ :208666.6/21

Right Out: 115.188+/-0.032  $\chi^2/\text{NDF}$ : 675564.7/17

Left In: 173.318+/-0.031  $\chi^2/\text{NDF}$ :195846.1/19

Left: 170.801+/-0.021  $\chi^2/\text{NDF}$ : 416925.1/41

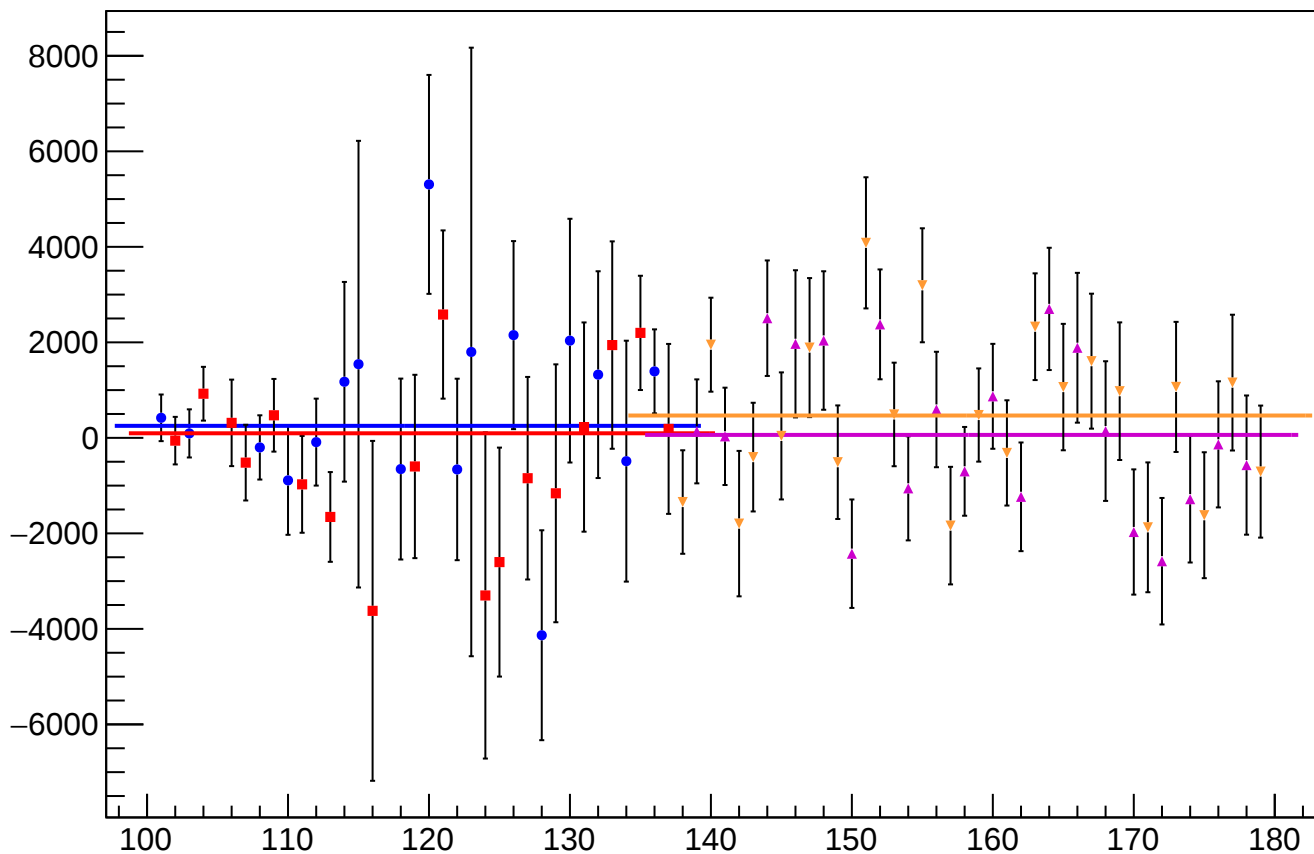
Right: 117.077+/-0.023  $\chi^2/\text{NDF}$ : 1298359.0/34

In: 148.251+/-0.023  $\chi^2/\text{NDF}$ :2220288.5/36

Out: 144.067+/-0.021  $\chi^2/\text{NDF}$ :2417078.5/39

All: 146.040+/-0.016  $\chi^2/\text{NDF}$ : 4655250.6/76

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



Right In: 251.733+/-252.819  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 467.932+/-262.837  $\chi^2/\text{NDF}$ : 36.1/21

Right Out: 95.805+/-245.748  $\chi^2/\text{NDF}$ : 17.5/17

Left In: 61.750+/-272.658  $\chi^2/\text{NDF}$ : 33.3/19

Left: 272.287+/-189.231  $\chi^2/\text{NDF}$ : 70.6/41

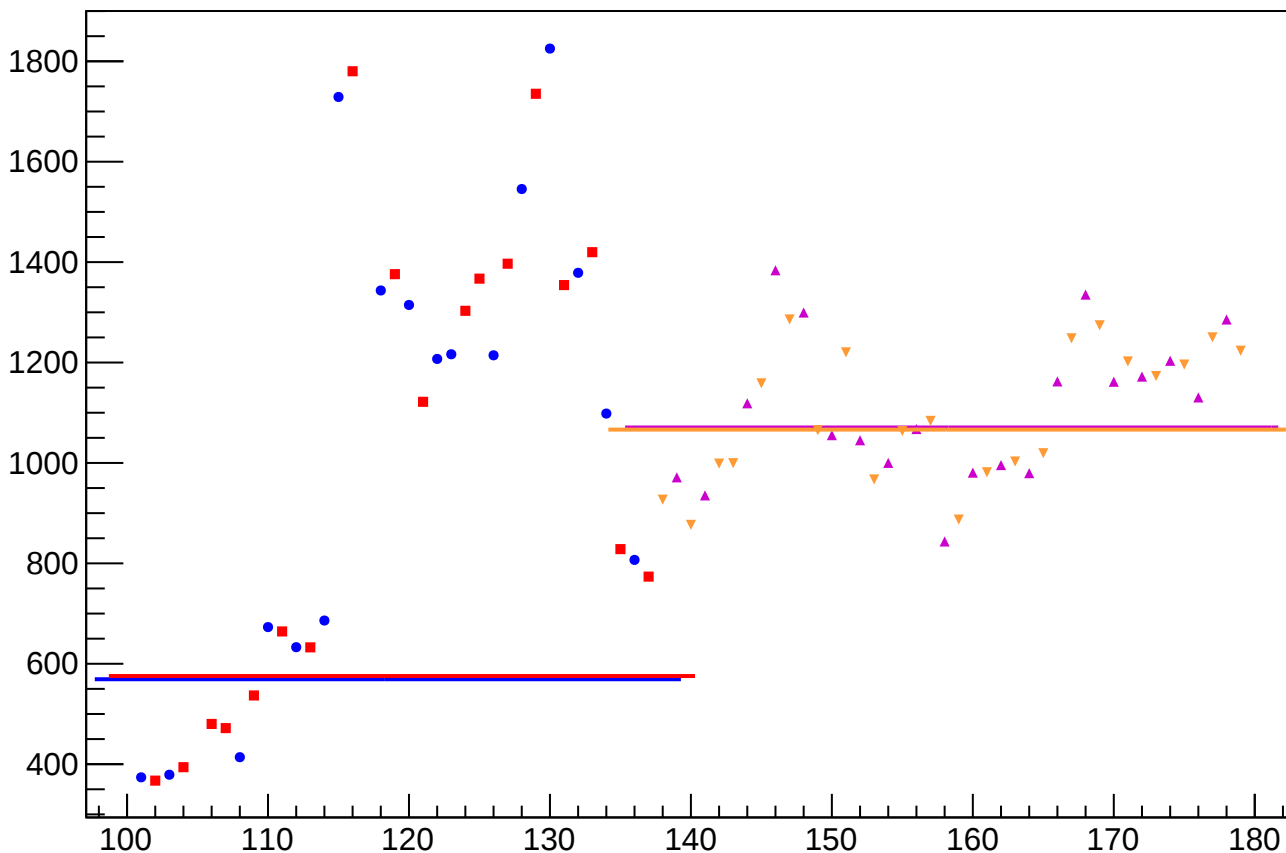
Right: 171.557+/-176.217  $\chi^2/\text{NDF}$ : 32.5/34

In: 163.903+/-185.387  $\chi^2/\text{NDF}$ : 48.5/36

Out: 269.378+/-179.508  $\chi^2/\text{NDF}$ : 54.7/39

All: 218.340+/-128.960  $\chi^2/\text{NDF}$ : 103.3/76

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



Right In: 569.200 $\pm$ 0.179  $\chi^2$ /NDF: 3267047.1/16

Left Out: 1066.397 $\pm$ 0.186  $\chi^2$ /NDF: 489501.4/21

Right Out: 575.584 $\pm$ 0.174  $\chi^2$ /NDF: 3058273.5/17

Left In: 1070.581 $\pm$ 0.193  $\chi^2$ /NDF: 510165.7/19

Left: 1068.412 $\pm$ 0.134  $\chi^2$ /NDF: 999911.2/41

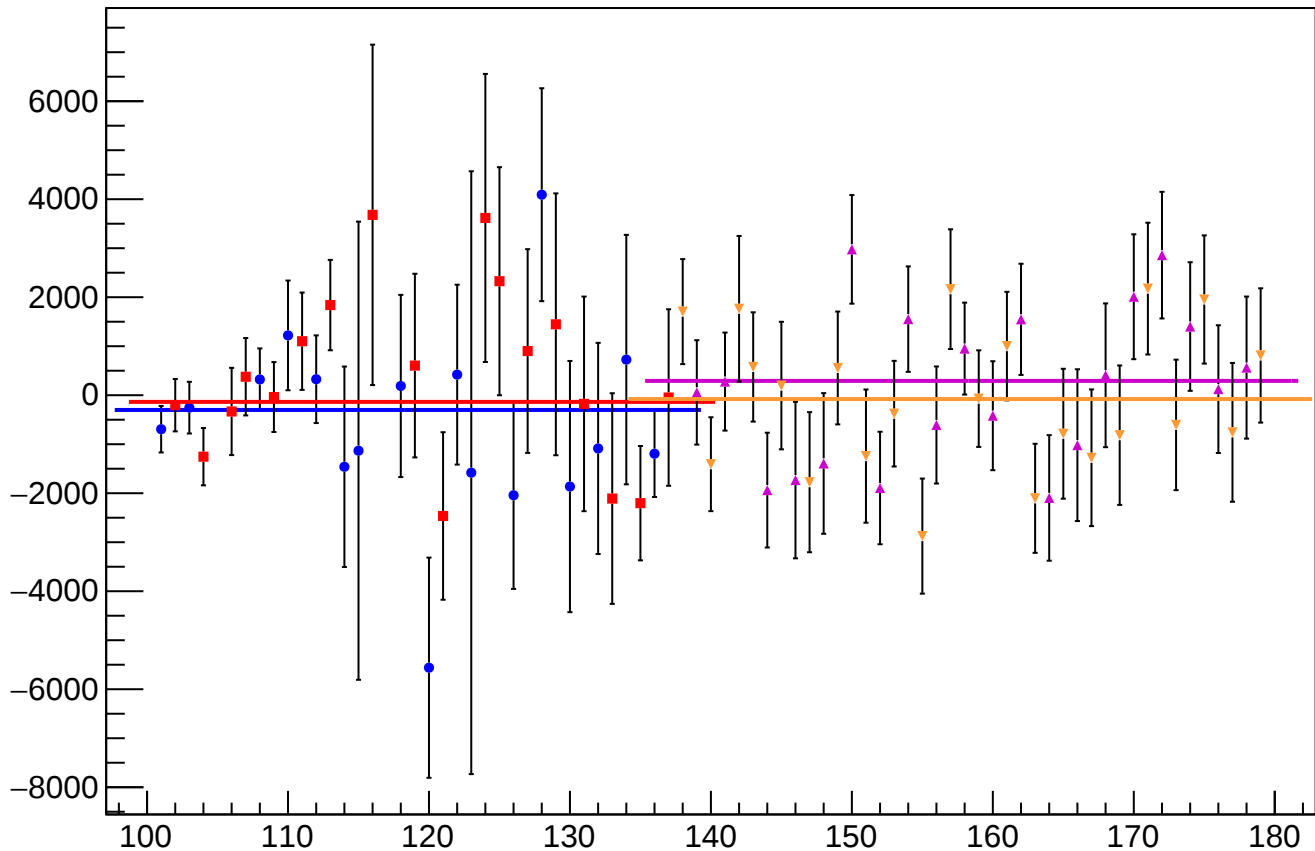
Right: 572.482 $\pm$ 0.125  $\chi^2$ /NDF: 6325976.2/34

In: 800.989 $\pm$ 0.131  $\chi^2$ /NDF: 7413603.6/36

Out: 804.516 $\pm$ 0.127  $\chi^2$ /NDF: 7268915.4/39

All: 802.809 $\pm$ 0.091  $\chi^2$ /NDF: 14682892.8/76

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-300.652 \pm 250.302$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-77.854 \pm 259.845$   $\chi^2/\text{NDF}$ : 29.8/21

Right Out:  $-136.107 \pm 247.692$   $\chi^2/\text{NDF}$ : 20.9/17

Left In:  $292.211 \pm 270.190$   $\chi^2/\text{NDF}$ : 30.9/19

Left:  $99.959 \pm 187.289$   $\chi^2/\text{NDF}$ : 61.7/41

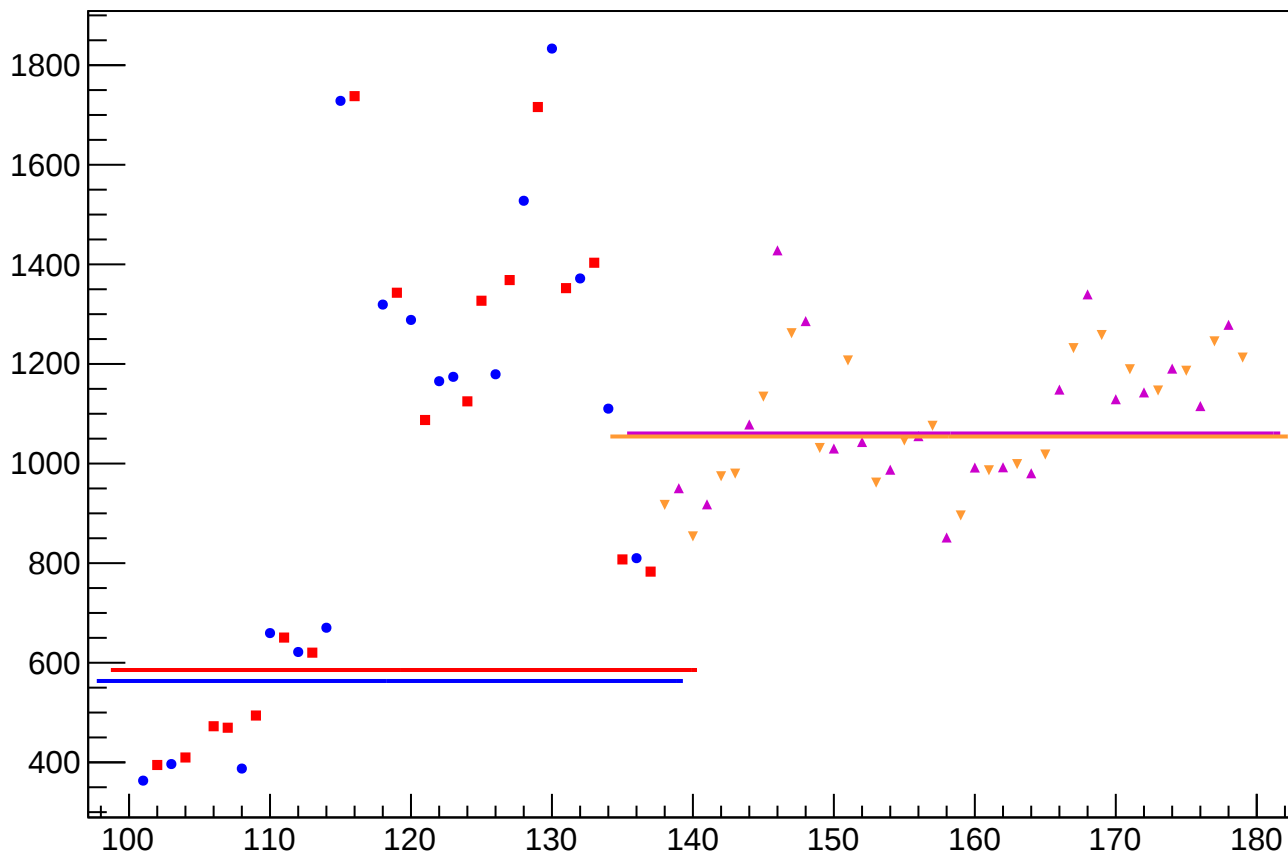
Right:  $-217.517 \pm 176.060$   $\chi^2/\text{NDF}$ : 37.8/34

In:  $-26.841 \pm 183.619$   $\chi^2/\text{NDF}$ : 50.2/36

Out:  $-108.375 \pm 179.287$   $\chi^2/\text{NDF}$ : 50.7/39

All:  $-68.581 \pm 128.279$   $\chi^2/\text{NDF}$ : 101.0/76

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 563.393+/-0.177  $\chi^2/\text{NDF}$ : 3259045.7/16

Left Out: 1054.343+/-0.184  $\chi^2/\text{NDF}$ : 478853.3/21

Right Out: 585.438+/-0.175  $\chi^2/\text{NDF}$ : 2818143.7/17

Left In: 1060.408+/-0.191  $\chi^2/\text{NDF}$ : 512023.0/19

Left: 1057.257+/-0.132  $\chi^2/\text{NDF}$ : 991399.8/41

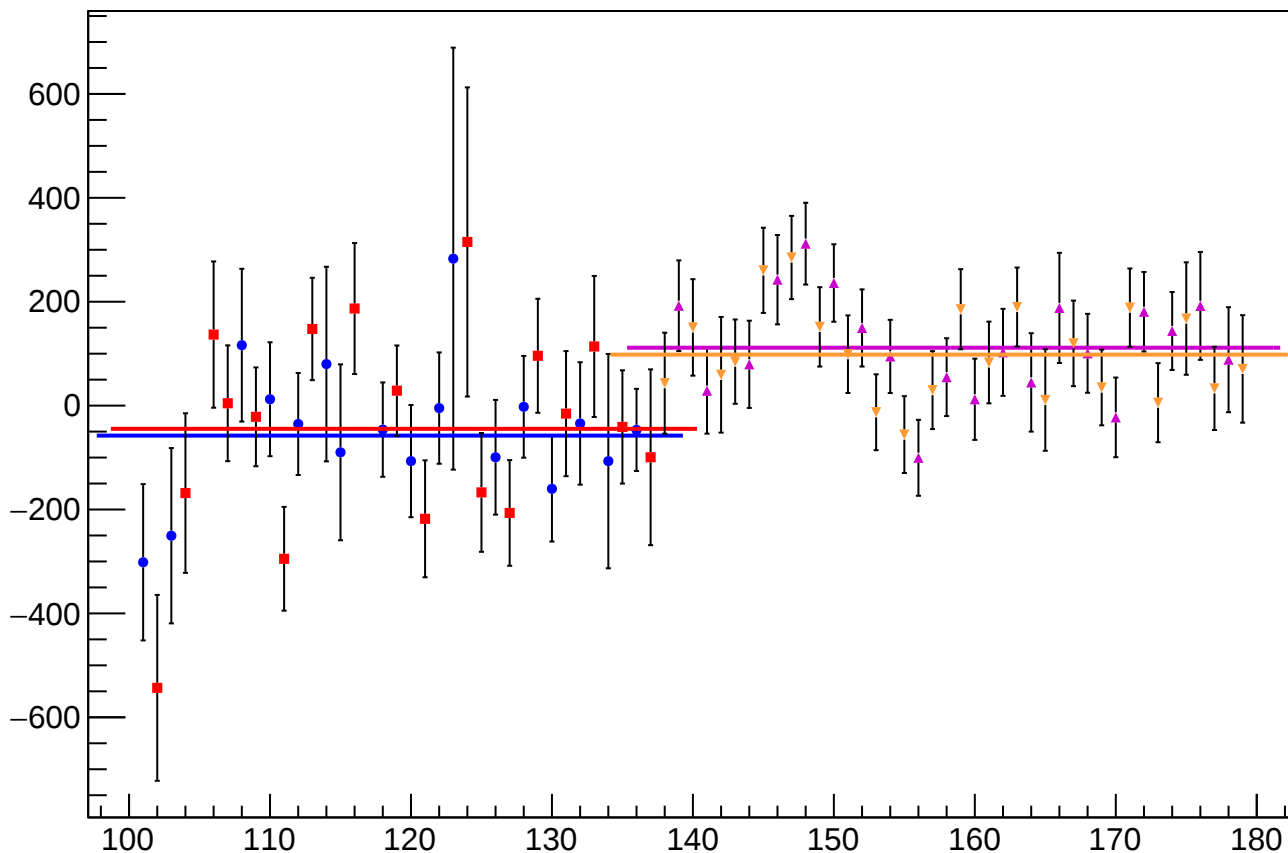
Right: 574.531+/-0.124  $\chi^2/\text{NDF}$ : 6085027.9/34

In: 792.937+/-0.130  $\chi^2/\text{NDF}$ : 7413030.4/36

Out: 808.669+/-0.127  $\chi^2/\text{NDF}$ : 6709267.7/39

All: 800.991+/-0.091  $\chi^2/\text{NDF}$ : 14129813.2/76

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}: 9.1/16$

Left Out:  $98.154 \pm 17.449$   $\chi^2/\text{NDF}: 26.6/21$

Right Out:  $-44.693 \pm 27.711$   $\chi^2/\text{NDF}: 35.2/17$

Left In:  $111.486 \pm 18.160$   $\chi^2/\text{NDF}: 30.2/19$

Left:  $104.554 \pm 12.582$   $\chi^2/\text{NDF}: 57.1/41$

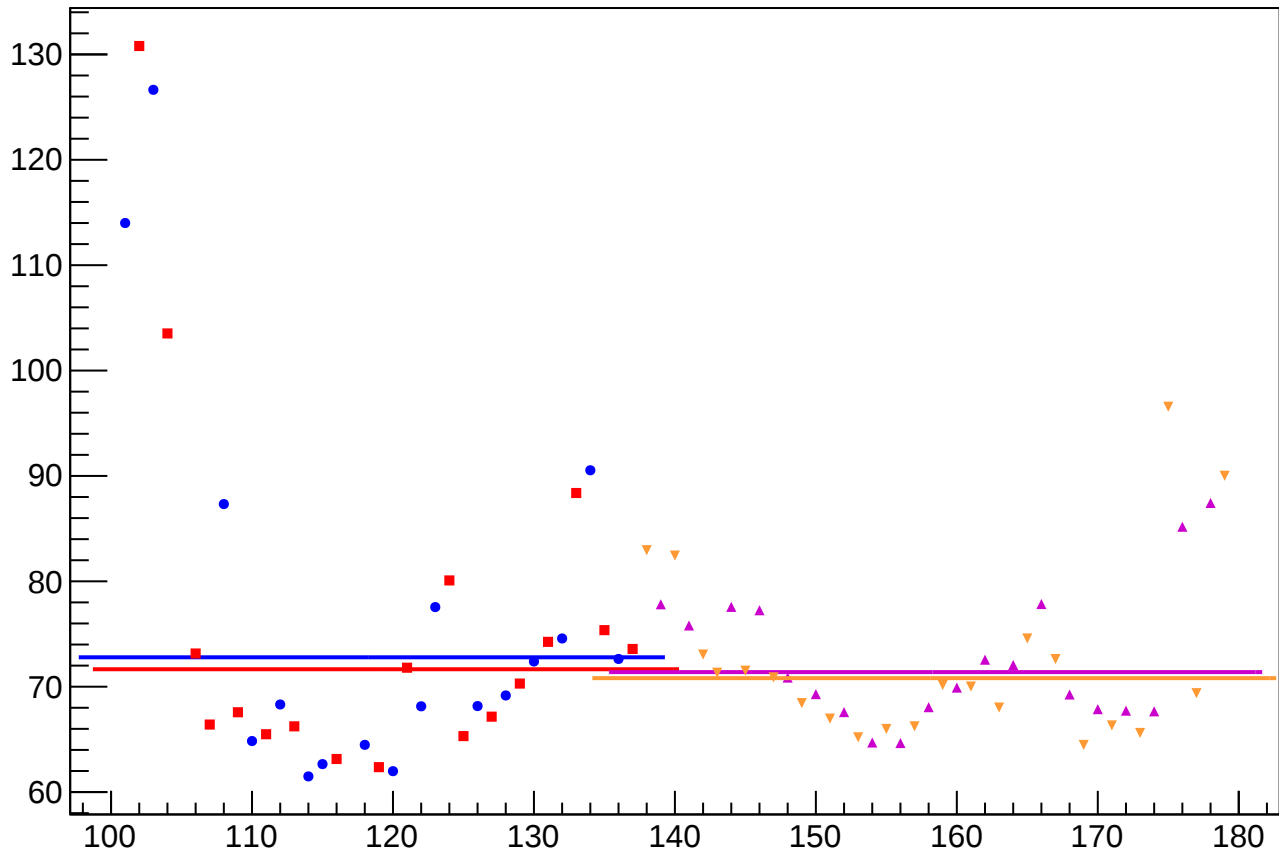
Right:  $-50.974 \pm 19.933$   $\chi^2/\text{NDF}: 44.4/34$

In:  $63.094 \pm 15.345$   $\chi^2/\text{NDF}: 64.2/36$

Out:  $57.598 \pm 14.765$   $\chi^2/\text{NDF}: 80.8/39$

All:  $60.241 \pm 10.640$   $\chi^2/\text{NDF}: 145.0/76$

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 72.790 $\pm$ 0.020  $\chi^2$ /NDF: 464772.9/16

Left Out: 70.811 $\pm$ 0.012  $\chi^2$ /NDF:319942.5/21

Right Out: 71.655 $\pm$ 0.020  $\chi^2$ /NDF: 404376.9/17

Left In: 71.385 $\pm$ 0.013  $\chi^2$ /NDF:192194.8/19

Left: 71.086 $\pm$ 0.009  $\chi^2$ /NDF: 513176.7/41

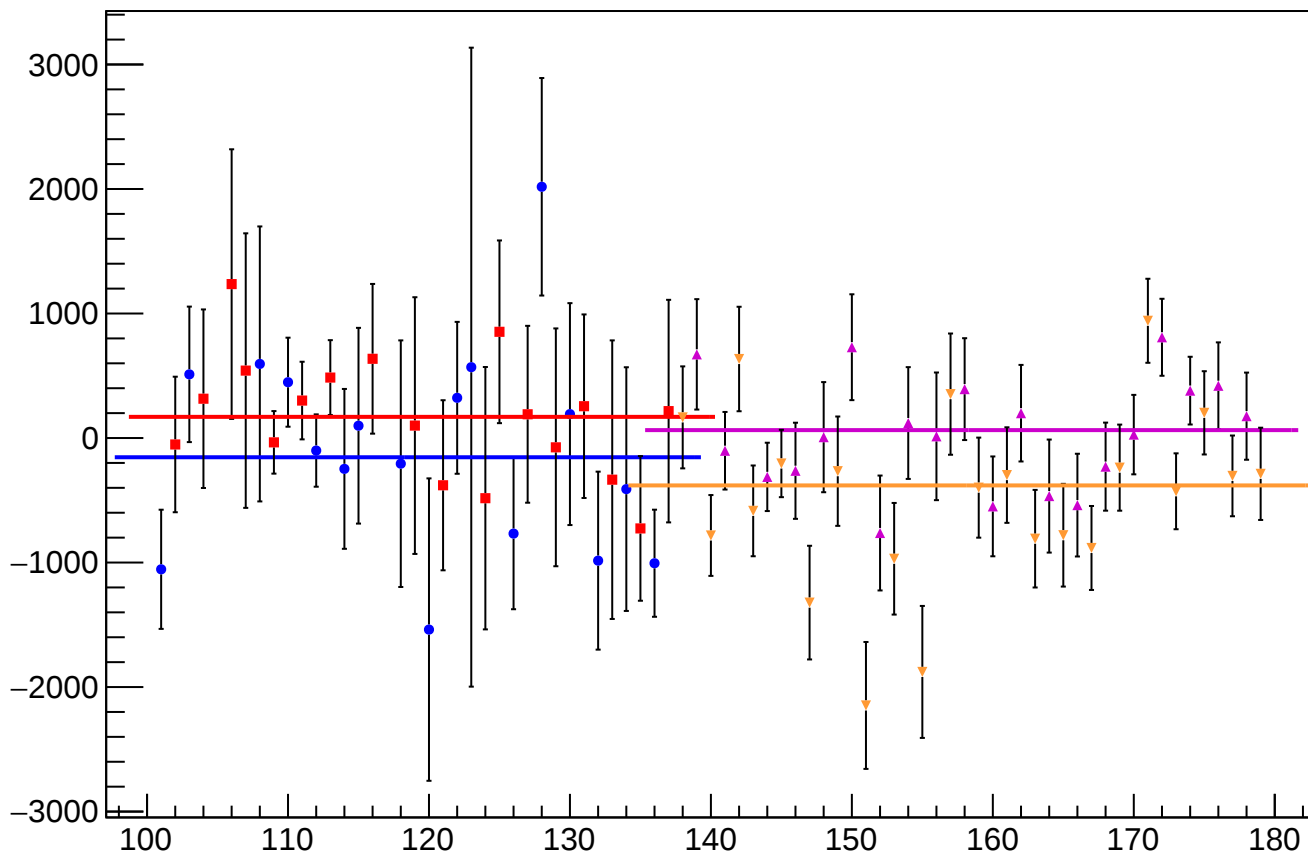
Right: 72.203 $\pm$ 0.014  $\chi^2$ /NDF: 870767.9/34

In: 71.787 $\pm$ 0.011  $\chi^2$ /NDF:660390.4/36

Out: 71.051 $\pm$ 0.010  $\chi^2$ /NDF:725648.9/39

All: 71.405 $\pm$ 0.008  $\chi^2$ /NDF: 1388429.6/76

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



Right In: -154.404 $\pm$ 140.700  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -380.604 $\pm$ 79.873  $\chi^2/\text{NDF}$ : 61.3/21

Right Out: 170.028 $\pm$ 126.220  $\chi^2/\text{NDF}$ : 8.4/17

Left In: 63.511 $\pm$ 82.400  $\chi^2/\text{NDF}$ : 26.1/19

Left: -165.461 $\pm$ 57.351  $\chi^2/\text{NDF}$ : 102.4/41

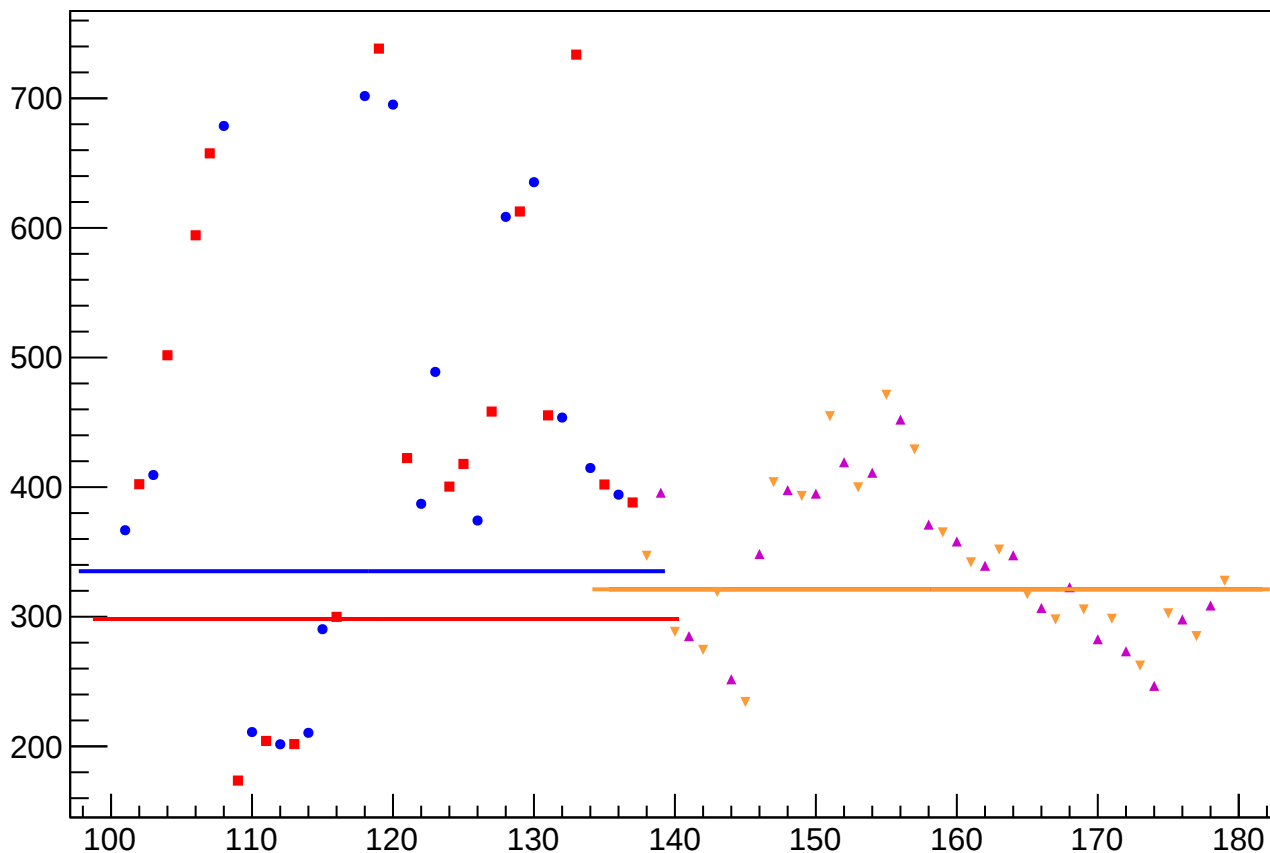
Right: 25.360 $\pm$ 93.955  $\chi^2/\text{NDF}$ : 34.5/34

In: 7.859 $\pm$ 71.104  $\chi^2/\text{NDF}$ : 51.0/36

Out: -223.157 $\pm$ 67.494  $\chi^2/\text{NDF}$ : 83.3/39

All: -113.661 $\pm$ 48.952  $\chi^2/\text{NDF}$ : 139.9/76

# asym\_sam7\_correction\_rms vs Slug, Sign Corrected



Right In: 335.134 $\pm$ 0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 321.178 $\pm$ 0.056  $\chi^2/\text{NDF}$ : 1007834.3/21

Right Out: 298.253 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 2776555.9/17

Left In: 321.165 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 941658.4/19

Left: 321.172 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1949492.7/41

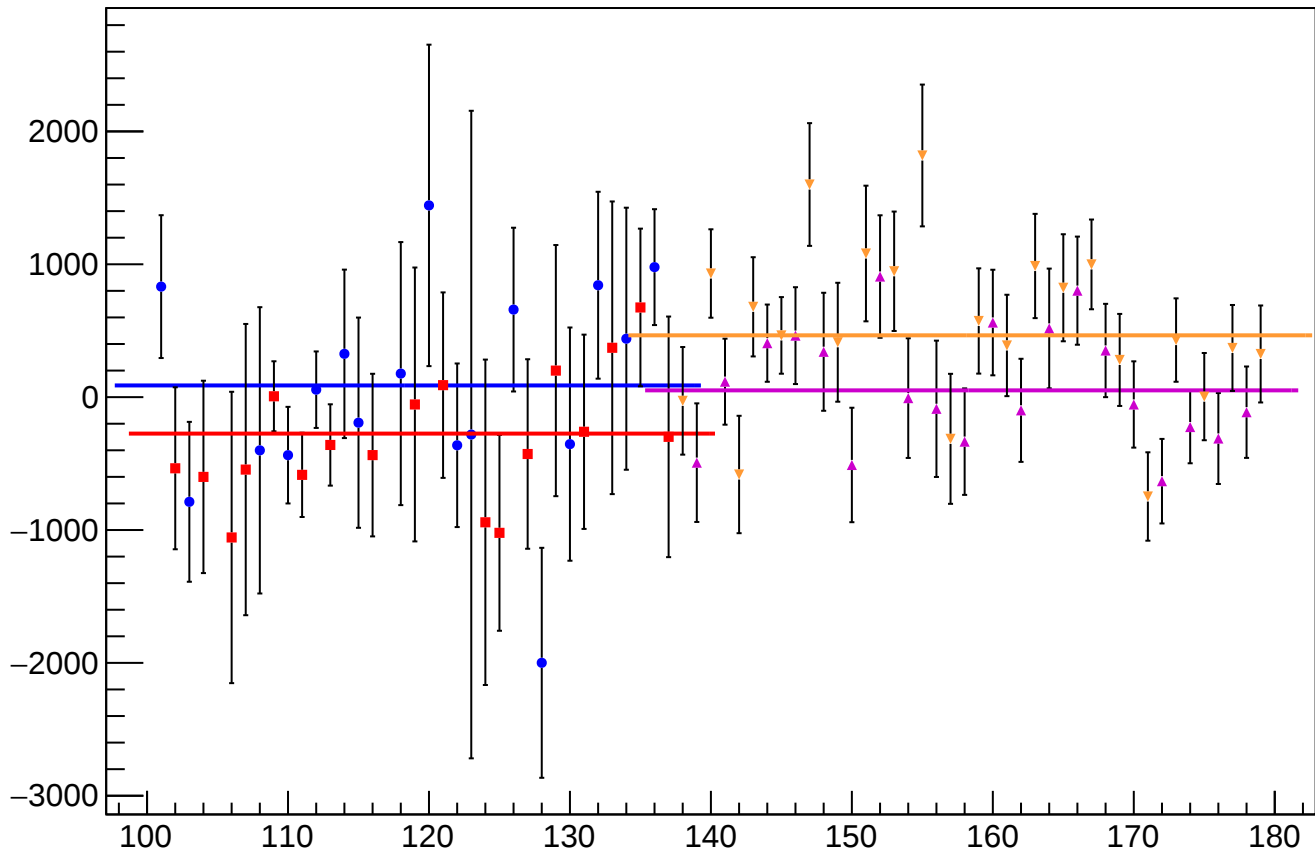
Right: 314.699 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 4846742.5/34

In: 324.733 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 2950382.5/36

Out: 314.623 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 3831501.1/39

All: 319.415 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 6803151.4/76

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 88.115+/-143.018  $\chi^2/\text{NDF}$ : 20.8/16

Left Out: 465.308+/-80.543  $\chi^2/\text{NDF}$ : 48.0/21

Right Out: -274.340+/-129.866  $\chi^2/\text{NDF}$ : 8.0/17

Left In: 51.068+/-82.787  $\chi^2/\text{NDF}$ : 25.0/19

Left: 263.878+/-57.730  $\chi^2/\text{NDF}$ : 85.9/41

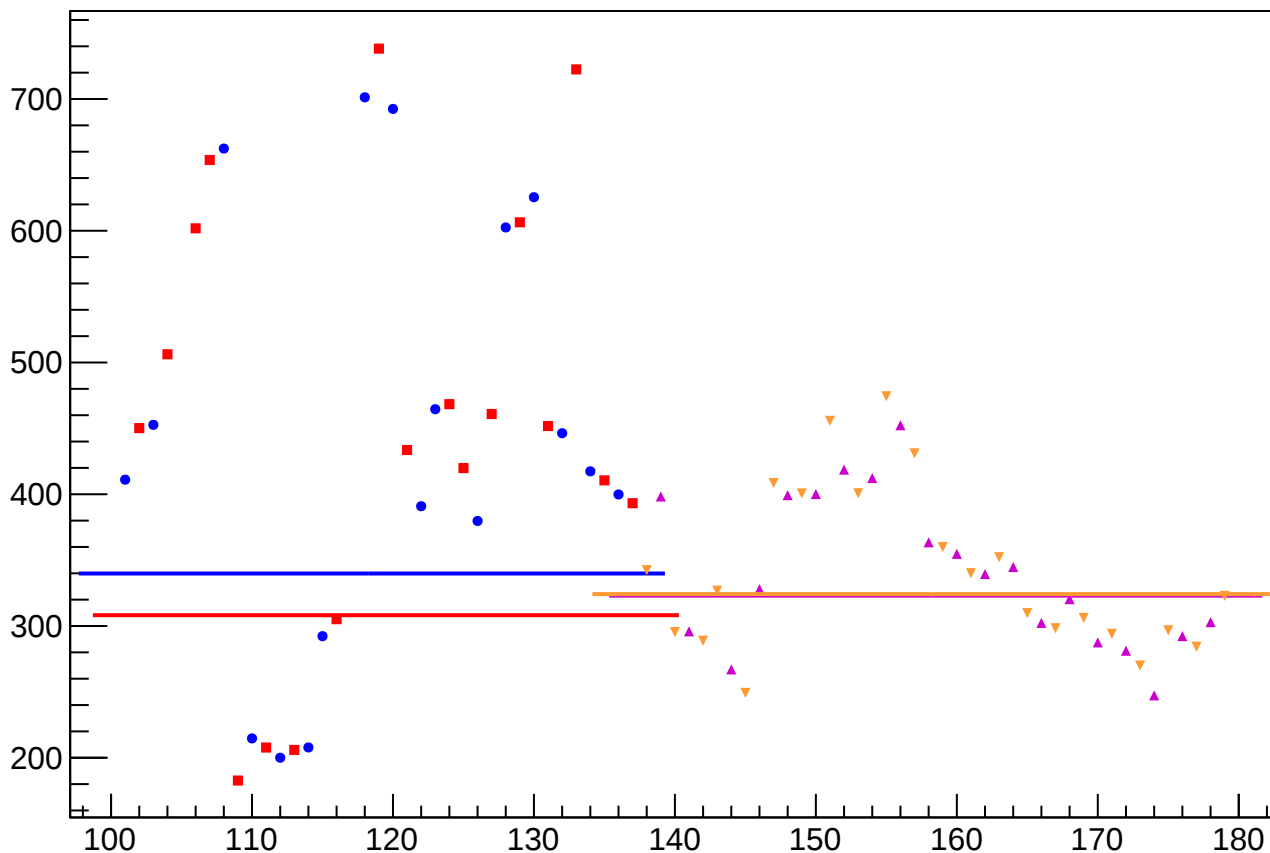
Right: -110.540+/-96.143  $\chi^2/\text{NDF}$ : 32.4/34

In: 60.366+/-71.649  $\chi^2/\text{NDF}$ : 45.8/36

Out: 259.836+/-68.448  $\chi^2/\text{NDF}$ : 79.5/39

All: 164.657+/-49.493  $\chi^2/\text{NDF}$ : 129.4/76

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 339.850 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out: 324.222 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 907023.2/21

Right Out: 308.199 $\pm$ 0.092  $\chi^2/\text{NDF}$ : 2698828.8/17

Left In: 323.066 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 842449.1/19

Left: 323.660 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1749672.7/41

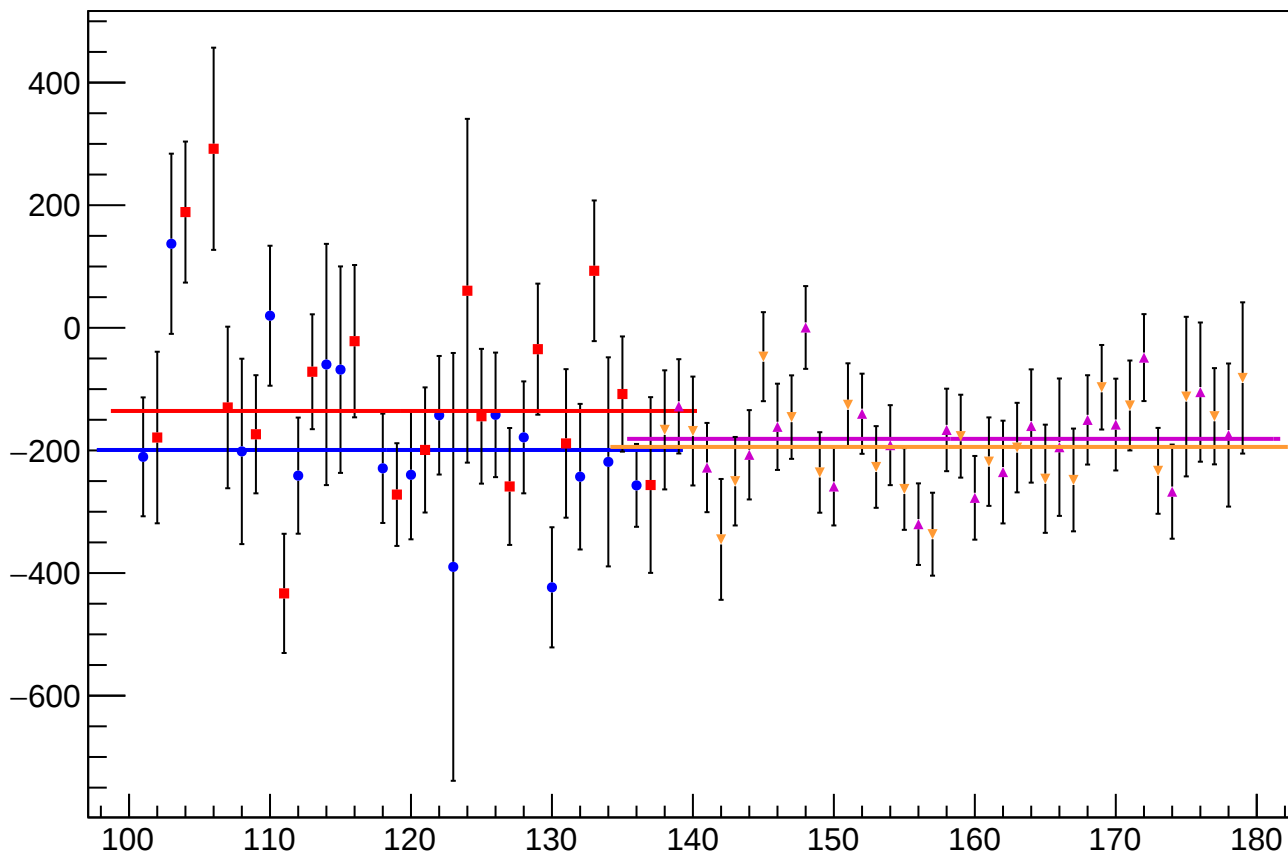
Right: 322.502 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 4796037.7/34

In: 327.278 $\pm$ 0.051  $\chi^2/\text{NDF}$ : 2906602.1/36

Out: 319.771 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 3627840.7/39

All: 323.353 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 6545923.5/76

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -199.252 $\pm$ 26.515  $\chi^2/\text{NDF}$ : 17.6/16

Left Out: -194.290 $\pm$ 16.204  $\chi^2/\text{NDF}$ : 20.6/21

Right Out: -135.623 $\pm$ 26.252  $\chi^2/\text{NDF}$ : 36.7/17

Left In: -181.127 $\pm$ 16.734  $\chi^2/\text{NDF}$ : 22.6/19

Left: -187.920 $\pm$ 11.641  $\chi^2/\text{NDF}$ : 43.6/41

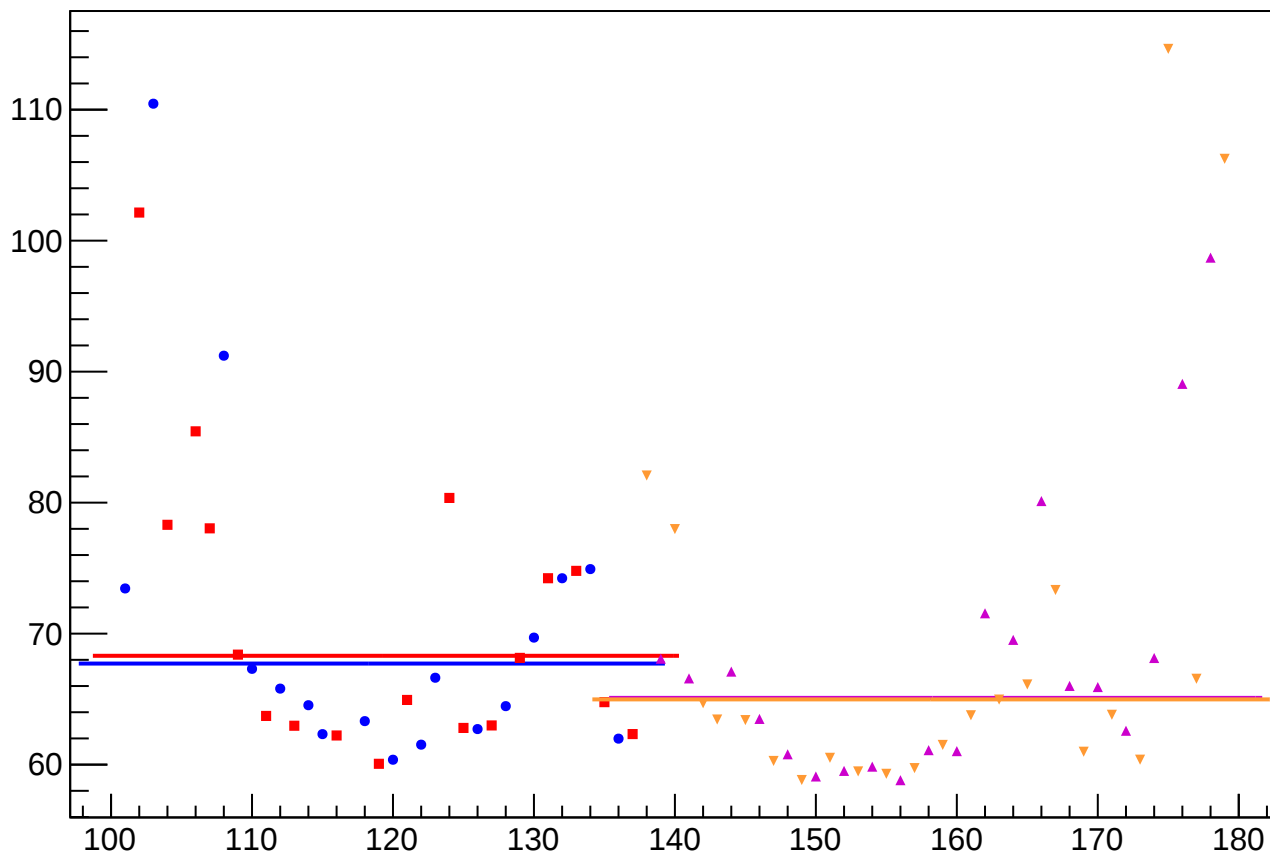
Right: -167.121 $\pm$ 18.655  $\chi^2/\text{NDF}$ : 57.2/34

In: -186.289 $\pm$ 14.151  $\chi^2/\text{NDF}$ : 40.6/36

Out: -178.106 $\pm$ 13.789  $\chi^2/\text{NDF}$ : 60.9/39

All: -182.091 $\pm$ 9.876  $\chi^2/\text{NDF}$ : 101.6/76

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 67.715+/-0.019  $\chi^2/\text{NDF}$ : 282892.5/16

Left Out: 64.980+/-0.011  $\chi^2/\text{NDF}$ : 740340.0/21

Right Out: 68.308+/-0.019  $\chi^2/\text{NDF}$ : 234314.0/17

Left In: 65.096+/-0.012  $\chi^2/\text{NDF}$ : 405498.4/19

Left: 65.036+/-0.008  $\chi^2/\text{NDF}$ : 1145887.7/41

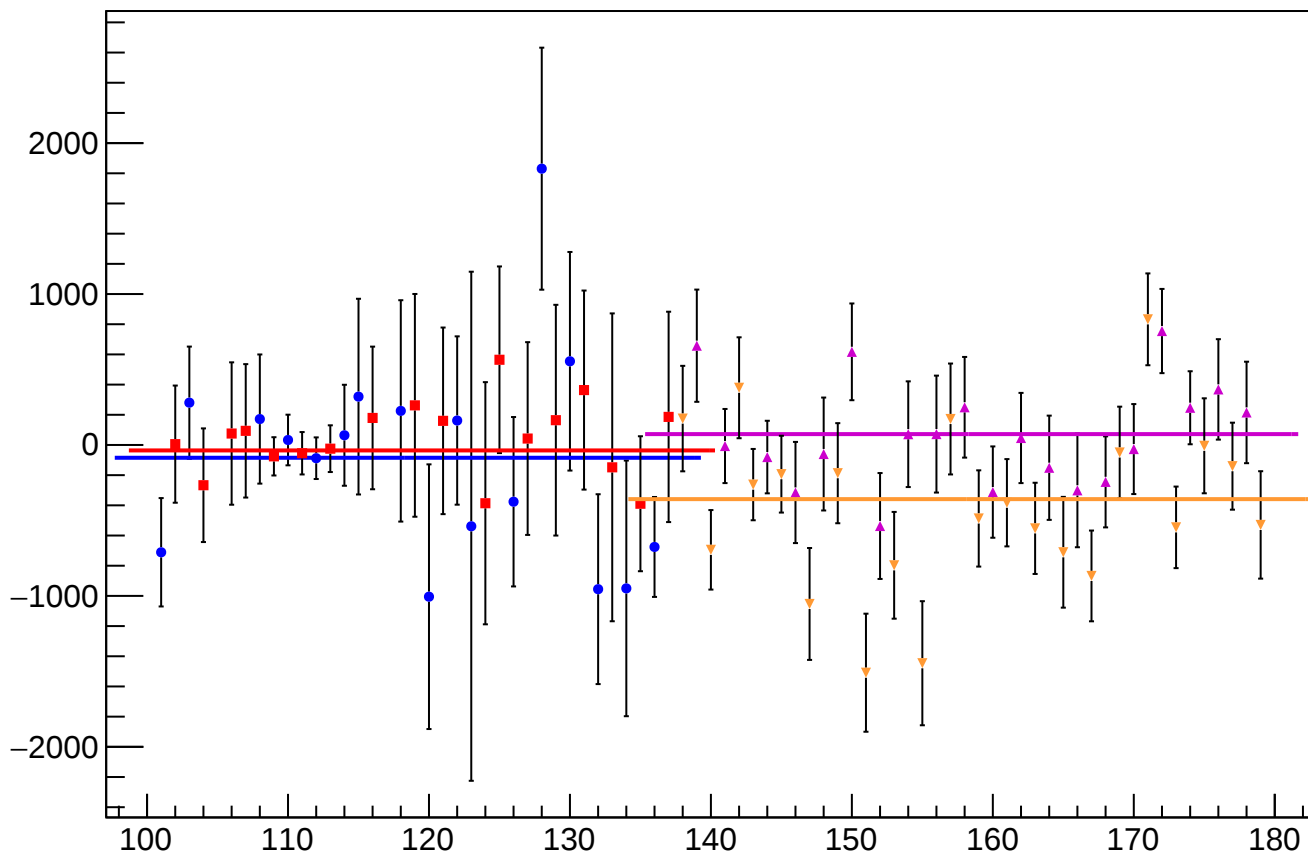
Right: 68.015+/-0.013  $\chi^2/\text{NDF}$ : 517711.7/34

In: 65.842+/-0.010  $\chi^2/\text{NDF}$ : 702354.3/36

Out: 65.898+/-0.010  $\chi^2/\text{NDF}$ : 997936.4/39

All: 65.871+/-0.007  $\chi^2/\text{NDF}$ : 1700306.9/76

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}: 19.9/16$

Left Out:  $-358.844 \pm 66.553$   $\chi^2/\text{NDF}: 55.7/21$

Right Out:  $-36.132 \pm 69.750$   $\chi^2/\text{NDF}: 3.4/17$

Left In:  $71.966 \pm 69.601$   $\chi^2/\text{NDF}: 22.3/19$

Left:  $-153.080 \pm 48.101$   $\chi^2/\text{NDF}: 98.1/41$

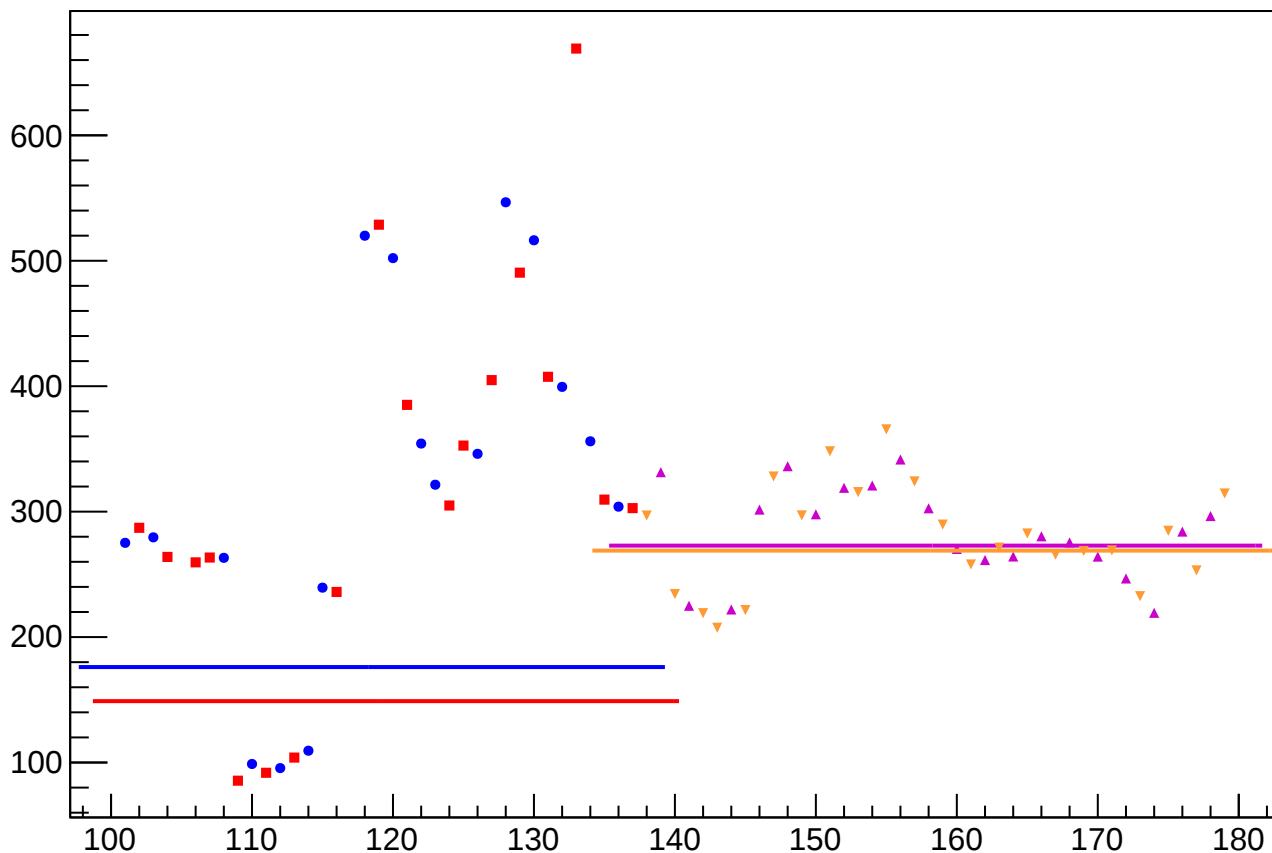
Right:  $-56.354 \pm 53.310$   $\chi^2/\text{NDF}: 23.5/34$

In:  $6.954 \pm 53.243$   $\chi^2/\text{NDF}: 44.3/36$

Out:  $-205.054 \pm 48.151$   $\chi^2/\text{NDF}: 70.4/39$

All:  $-109.671 \pm 35.713$   $\chi^2/\text{NDF}: 123.5/76$

# asym\_sam8\_correction\_rms vs Slug, Sign Corrected



Right In: 176.096 $\pm$ 0.058     $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 268.934 $\pm$ 0.047     $\chi^2/\text{NDF}$ : 728871.5/21

Right Out: 148.932 $\pm$ 0.049     $\chi^2/\text{NDF}$ : 4770916.6/17

Left In: 272.909 $\pm$ 0.049     $\chi^2/\text{NDF}$ : 585106.6/19

Left: 270.832 $\pm$ 0.034     $\chi^2/\text{NDF}$ : 1317387.2/41

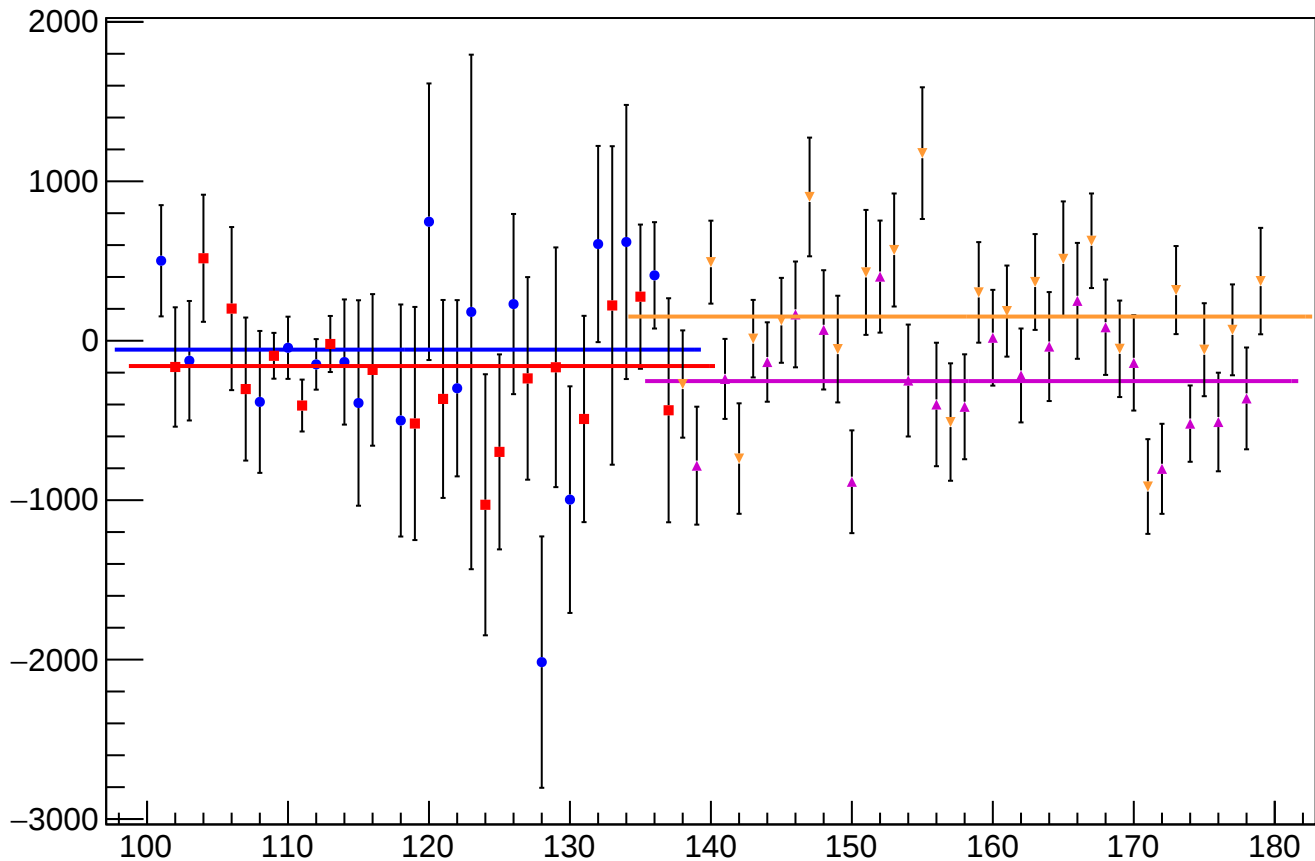
Right: 160.228 $\pm$ 0.038     $\chi^2/\text{NDF}$ : 9120718.3/34

In: 232.750 $\pm$ 0.038     $\chi^2/\text{NDF}$ : 6413929.4/36

Out: 211.746 $\pm$ 0.034     $\chi^2/\text{NDF}$ : 8598542.7/39

All: 221.196 $\pm$ 0.025     $\chi^2/\text{NDF}$ : 15183687.8/76

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $151.670 \pm 66.280$   $\chi^2/\text{NDF}$ : 45.0/21

Right Out:  $-158.676 \pm 77.072$   $\chi^2/\text{NDF}$ : 10.4/17

Left In:  $-253.113 \pm 69.233$   $\chi^2/\text{NDF}$ : 22.7/19

Left:  $-41.902 \pm 47.877$   $\chi^2/\text{NDF}$ : 85.6/41

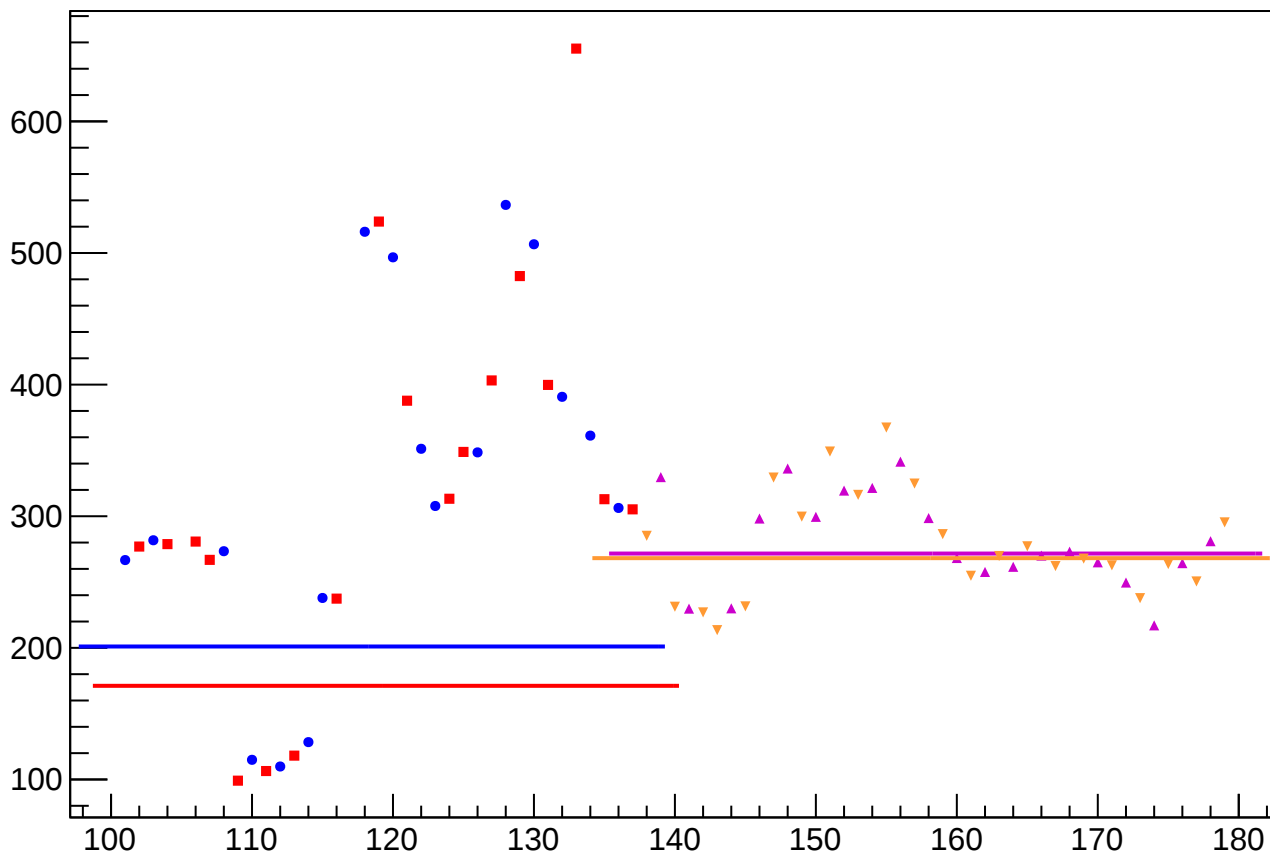
Right:  $-115.437 \pm 58.697$   $\chi^2/\text{NDF}$ : 28.3/34

In:  $-180.314 \pm 55.004$   $\chi^2/\text{NDF}$ : 42.9/36

Out:  $19.731 \pm 50.253$   $\chi^2/\text{NDF}$ : 64.7/39

All:  $-71.280 \pm 37.100$   $\chi^2/\text{NDF}$ : 114.8/76

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 201.036+/-0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 268.157+/-0.047  $\chi^2/\text{NDF}$ : 629141.4/21

Right Out: 171.159+/-0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

Left In: 271.654+/-0.049  $\chi^2/\text{NDF}$ : 530566.7/19

Left: 269.830+/-0.034  $\chi^2/\text{NDF}$ : 1162371.0/41

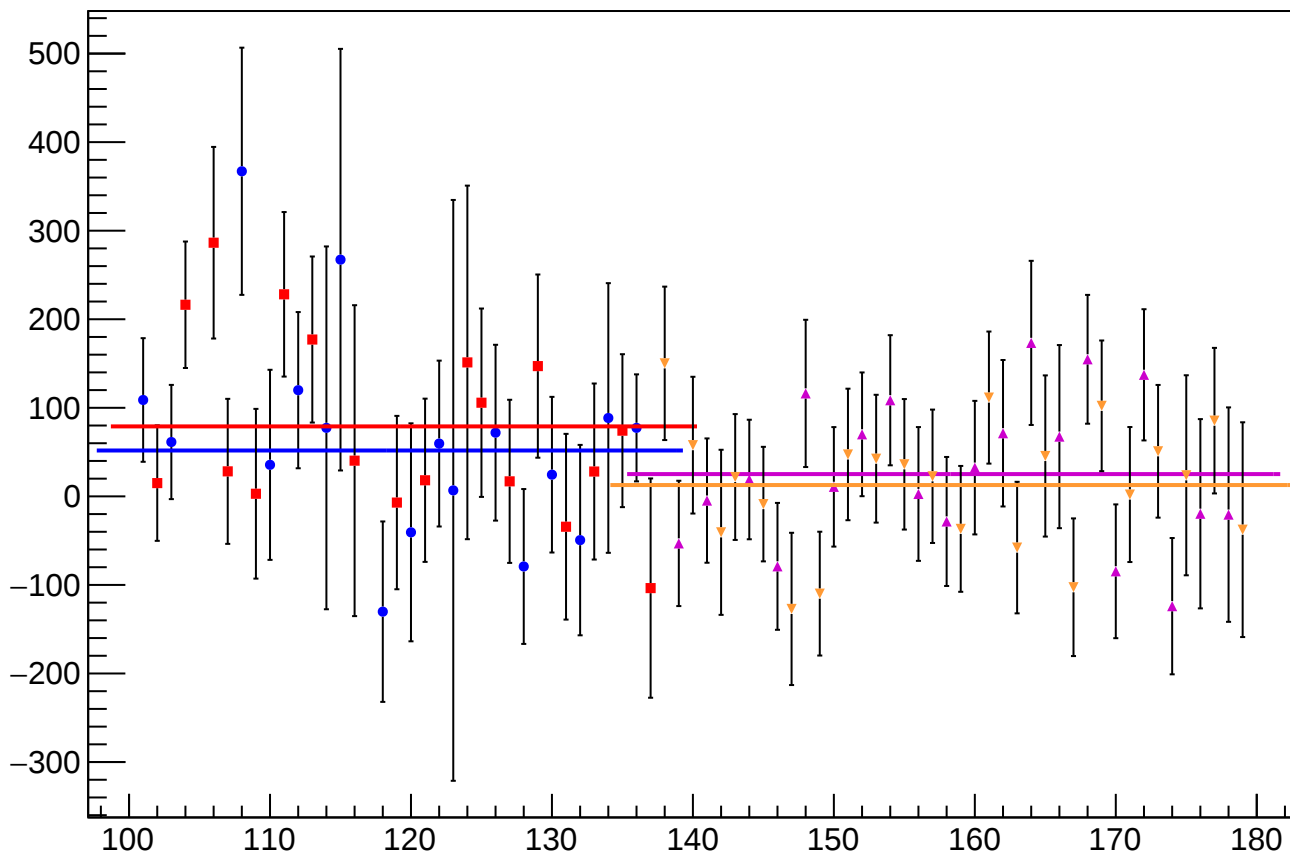
Right: 183.707+/-0.042  $\chi^2/\text{NDF}$ : 7624855.0/34

In: 245.610+/-0.039  $\chi^2/\text{NDF}$ : 4731012.4/36

Out: 226.920+/-0.036  $\chi^2/\text{NDF}$ : 6515812.8/39

All: 235.423+/-0.026  $\chi^2/\text{NDF}$ : 11372686.5/76

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 51.799 $\pm$ 23.538  $\chi^2$ /NDF: 14.5/16

Left Out: 12.785 $\pm$ 16.664  $\chi^2$ /NDF:17.7/21

Right Out: 79.008 $\pm$ 22.499  $\chi^2$ /NDF: 19.0/17

Left In: 25.155 $\pm$ 17.307  $\chi^2$ /NDF:21.8/19

Left: 18.736 $\pm$ 12.004  $\chi^2$ /NDF: 39.8/41

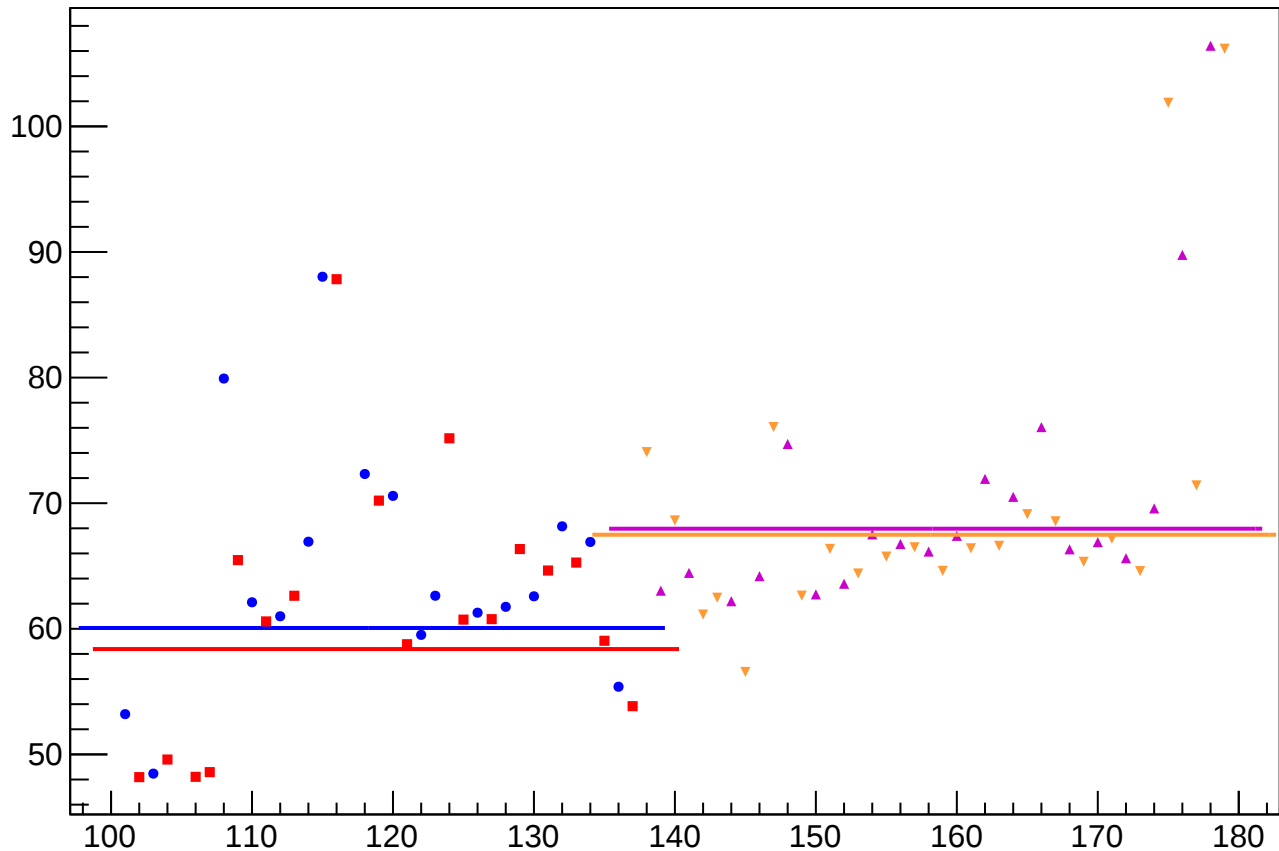
Right: 66.018 $\pm$ 16.264  $\chi^2$ /NDF: 34.2/34

In: 34.505 $\pm$ 13.943  $\chi^2$ /NDF:37.2/36

Out: 36.245 $\pm$ 13.391  $\chi^2$ /NDF:42.3/39

All: 35.410 $\pm$ 9.658  $\chi^2$ /NDF: 79.5/76

dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 60.065+/-0.017  $\chi^2/\text{NDF}$ : 229098.7/16

Left Out: 67.489+/-0.012  $\chi^2/\text{NDF}$ : 526828.3/21

Right Out: 58.387+/-0.016  $\chi^2/\text{NDF}$ : 275017.2/17

Left In: 67.969+/-0.012  $\chi^2/\text{NDF}$ : 377563.1/19

Left: 67.720+/-0.008  $\chi^2/\text{NDF}$ : 905190.6/41

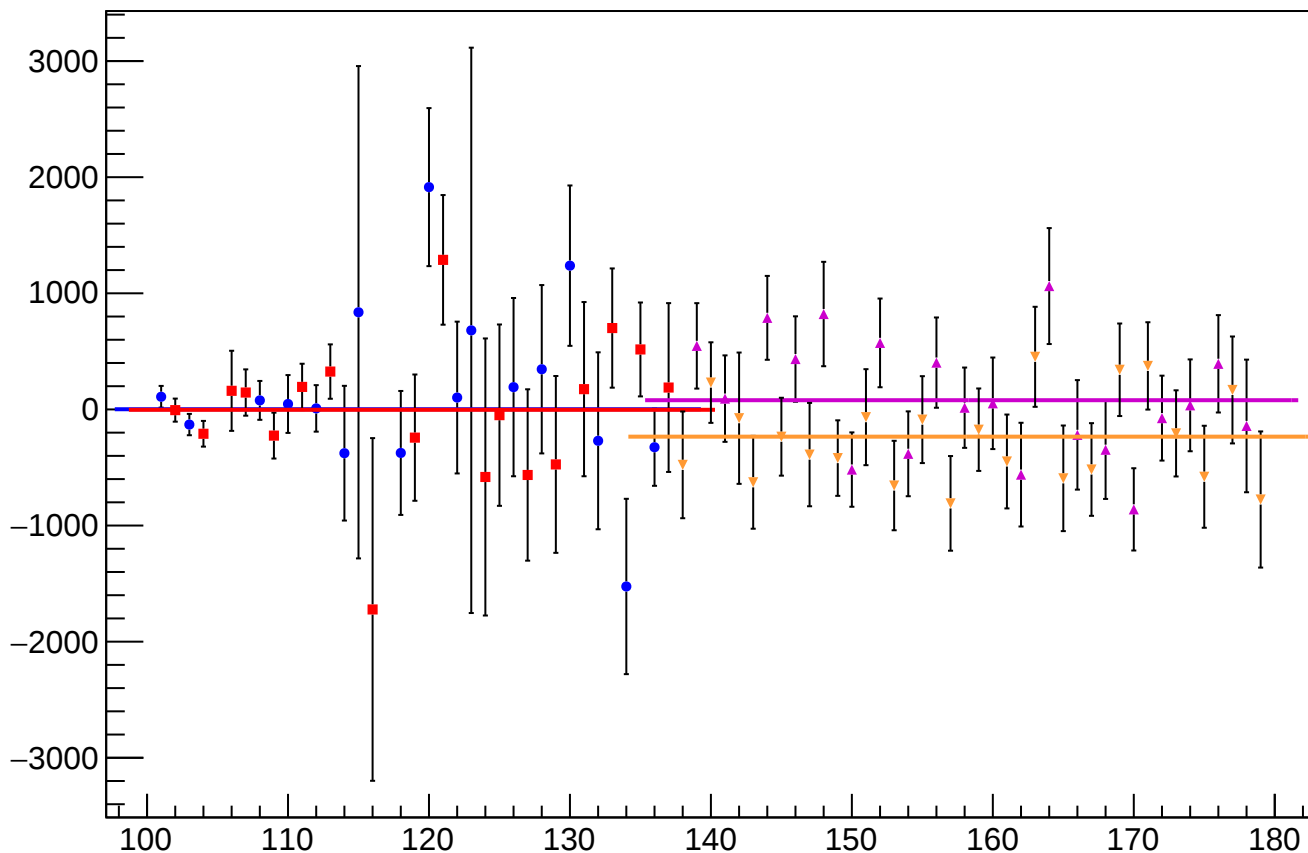
Right: 59.188+/-0.012  $\chi^2/\text{NDF}$ : 509429.8/34

In: 65.196+/-0.010  $\chi^2/\text{NDF}$ : 753033.3/36

Out: 64.264+/-0.009  $\chi^2/\text{NDF}$ : 1013204.9/39

All: 64.711+/-0.007  $\chi^2/\text{NDF}$ : 1770877.2/76

asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 1.581 $\pm$ 54.284  $\chi^2/\text{NDF}$ : 21.4/16

Left Out: -234.537 $\pm$ 85.883  $\chi^2/\text{NDF}$ :18.0/21

Right Out: -3.242 $\pm$ 56.611  $\chi^2/\text{NDF}$ : 20.2/17

Left In: 79.407 $\pm$ 87.772  $\chi^2/\text{NDF}$ :31.9/19

Left: -80.979 $\pm$ 61.385  $\chi^2/\text{NDF}$ : 56.4/41

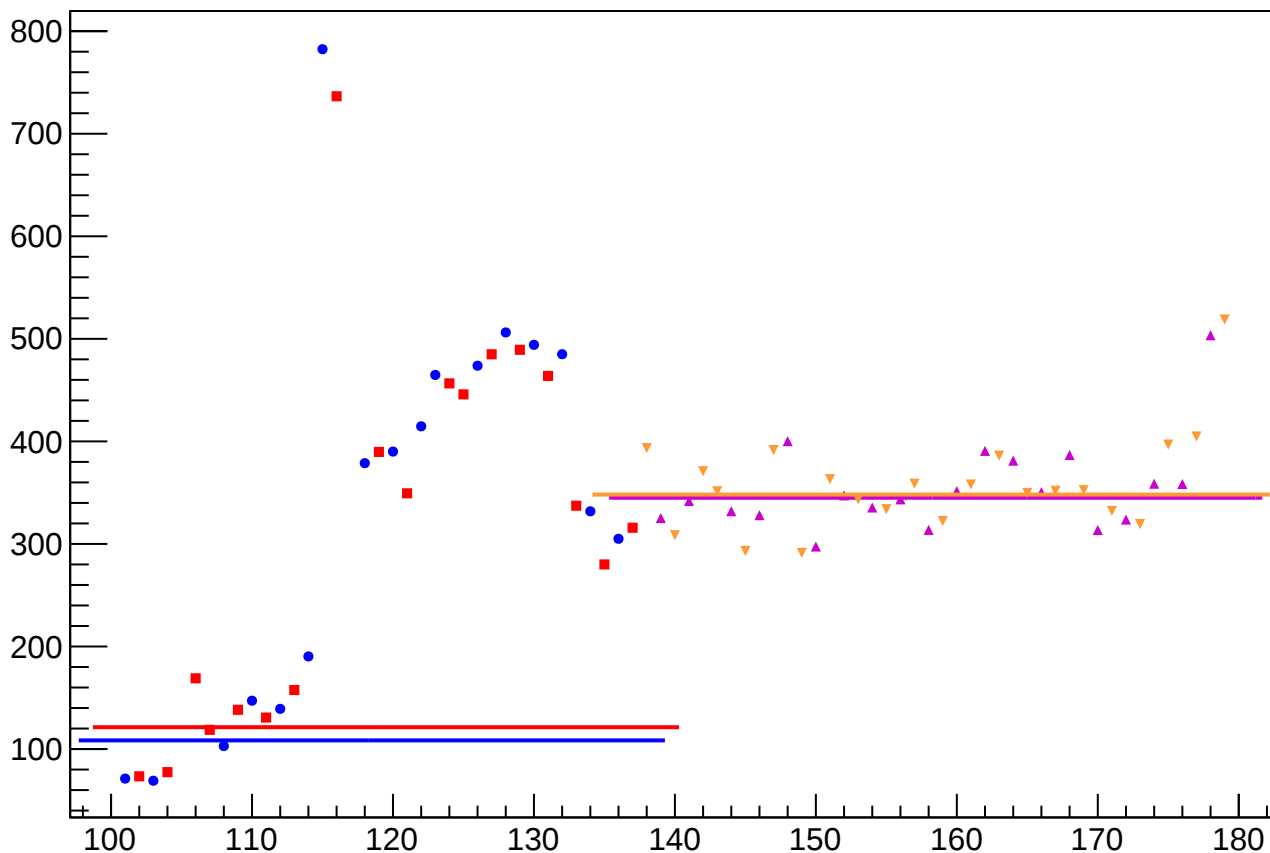
Right: -0.730 $\pm$ 39.182  $\chi^2/\text{NDF}$ : 41.6/34

In: 23.113 $\pm$ 46.168  $\chi^2/\text{NDF}$ :53.9/36

Out: -73.300 $\pm$ 47.266  $\chi^2/\text{NDF}$ :43.3/39

All: -23.960 $\pm$ 33.027  $\chi^2/\text{NDF}$ : 99.3/76

asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 108.445 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 5404107.9/16

Left Out: 348.158 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 457673.0/21

Right Out: 121.303 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 4731568.2/17

Left In: 345.048 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 337519.2/19

Left: 346.637 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 796475.3/41

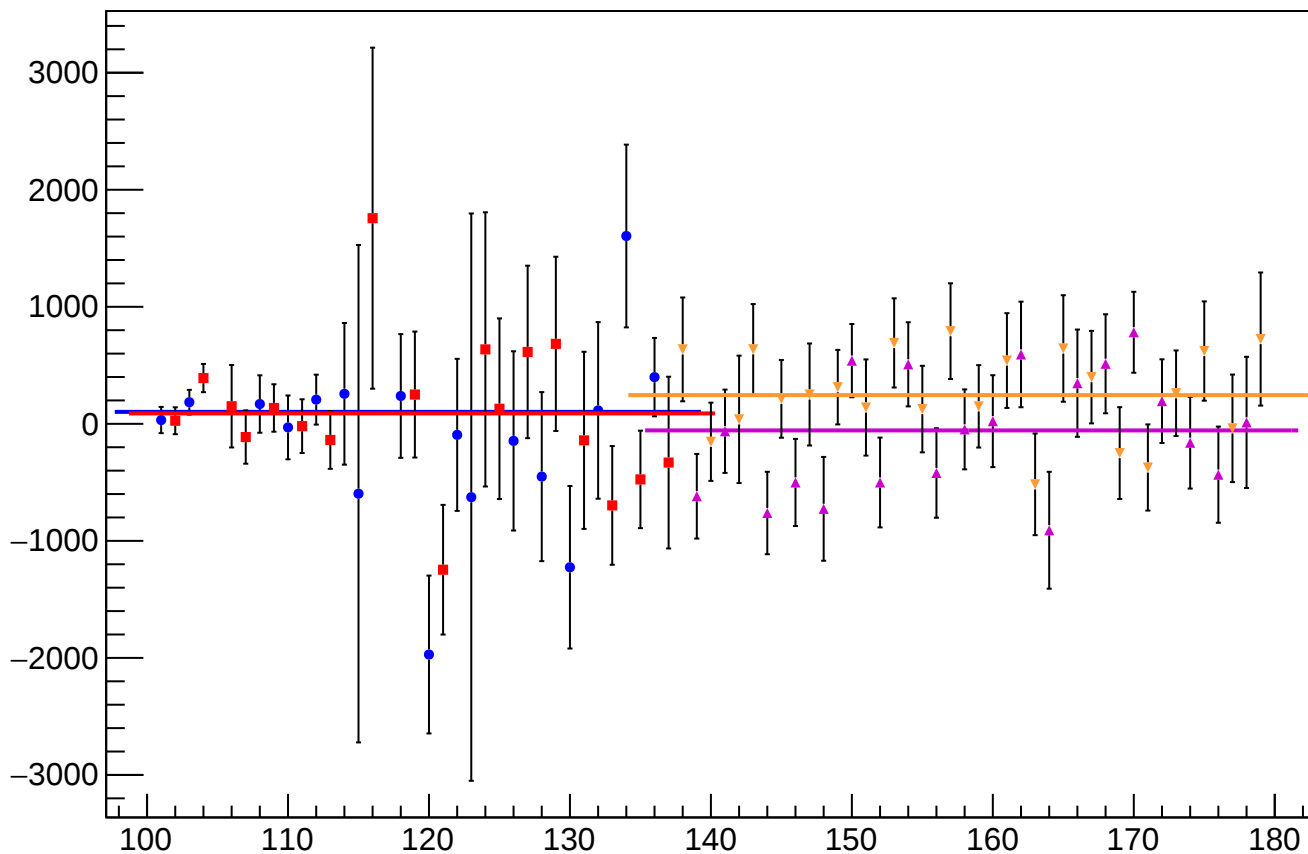
Right: 114.604 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 10189429.3/34

In: 173.907 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 16253850.7/36

Out: 190.016 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 14916932.3/39

All: 181.772 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 31289673.8/76

asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.221 $\pm$ 63.127  $\chi^2$ /NDF: 20.3/16

Left Out: 245.664 $\pm$ 84.558  $\chi^2$ /NDF:17.7/21

Right Out: 88.841 $\pm$ 62.230  $\chi^2$ /NDF: 21.7/17

Left In: -56.224 $\pm$ 86.504  $\chi^2$ /NDF:33.4/19

Left: 98.155 $\pm$ 60.468  $\chi^2$ /NDF: 57.3/41

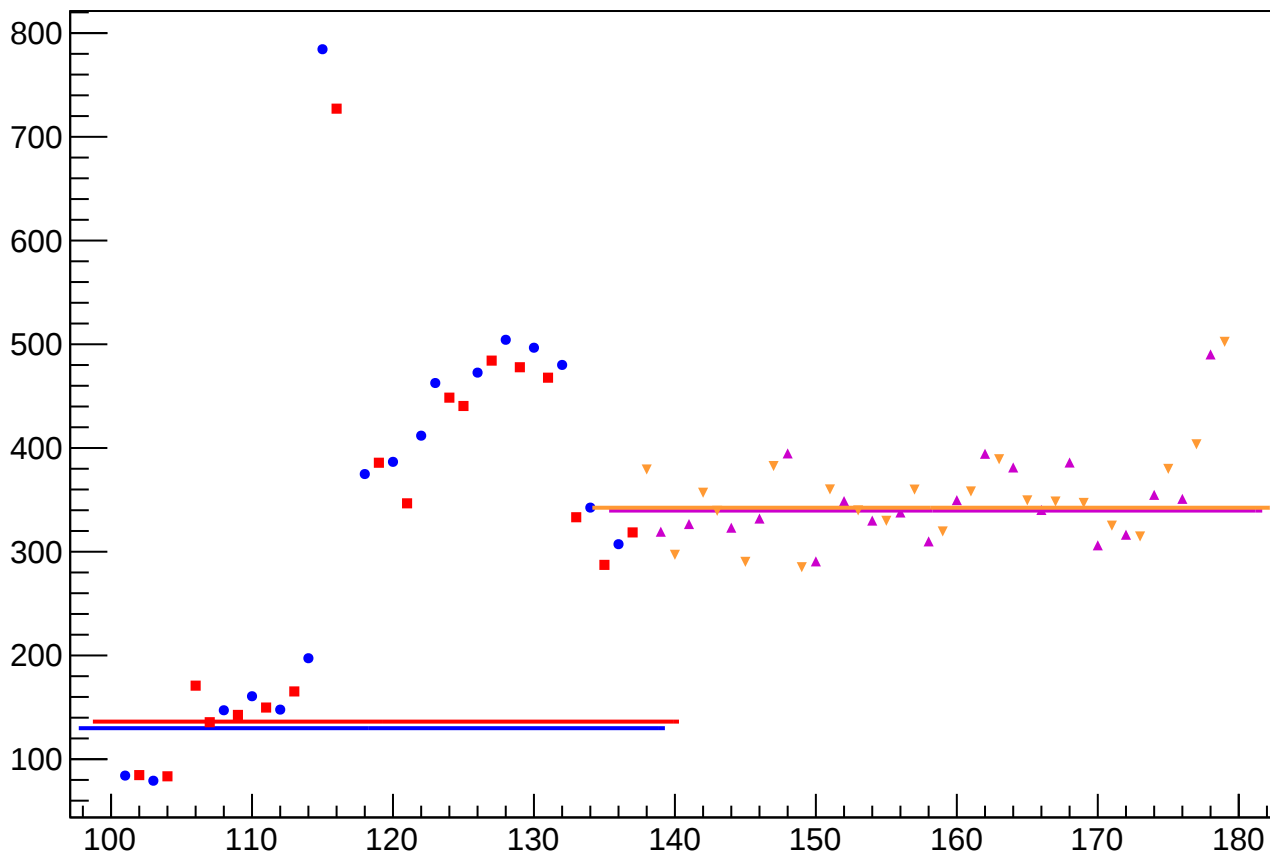
Right: 95.435 $\pm$ 44.317  $\chi^2$ /NDF: 42.0/34

In: 47.163 $\pm$ 50.993  $\chi^2$ /NDF:55.9/36

Out: 143.938 $\pm$ 50.120  $\chi^2$ /NDF:41.6/39

All: 96.386 $\pm$ 35.745  $\chi^2$ /NDF: 99.3/76

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 342.426+/-0.060  $\chi^2/\text{NDF}$ : 454236.8/21

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

Left In: 339.678+/-0.061  $\chi^2/\text{NDF}$ : 356385.1/19

Left: 341.083+/-0.043  $\chi^2/\text{NDF}$ : 811654.5/41

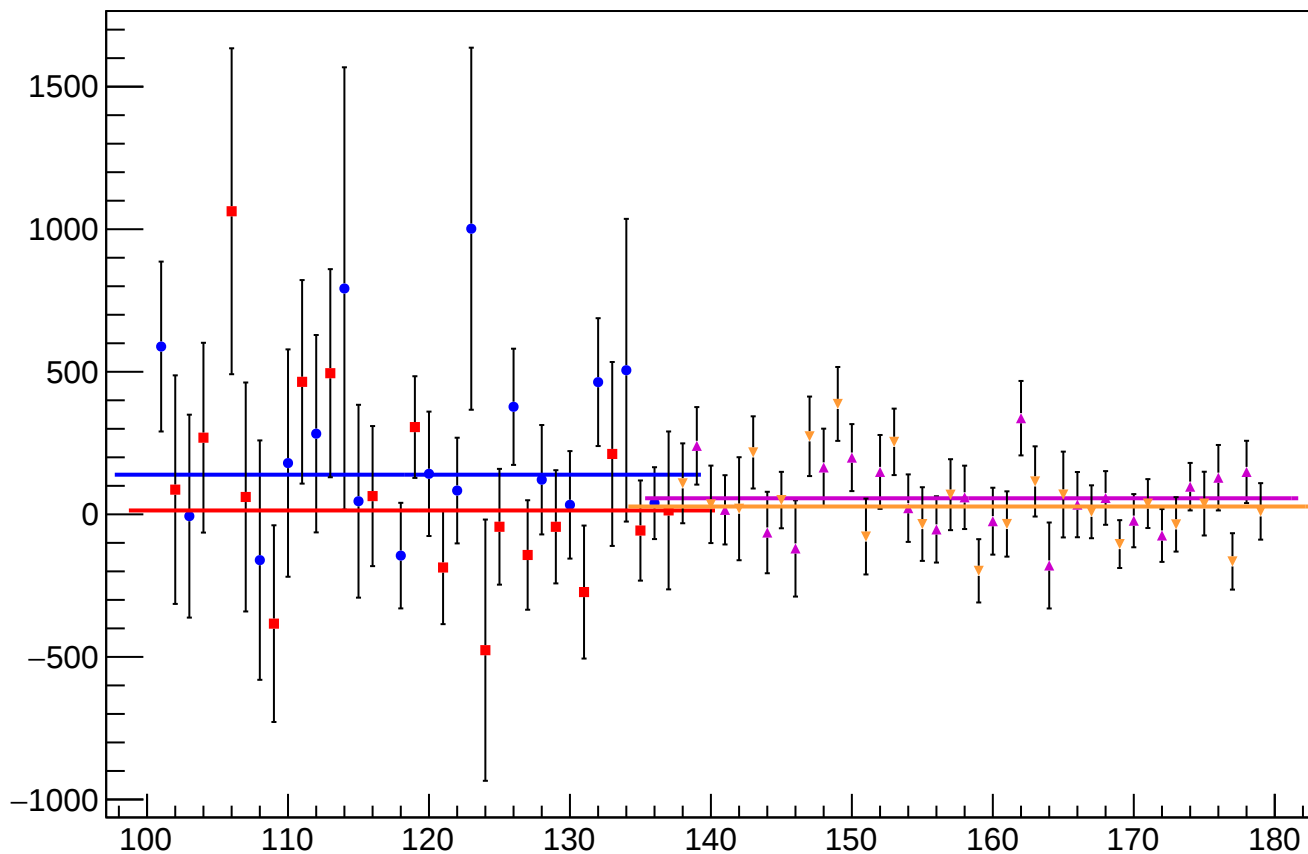
Right: 133.100+/-0.031  $\chi^2/\text{NDF}$ : 9122555.3/34

In: 202.786+/-0.036  $\chi^2/\text{NDF}$ : 12861710.9/36

Out: 208.671+/-0.035  $\chi^2/\text{NDF}$ : 12451913.5/39

All: 205.779+/-0.025  $\chi^2/\text{NDF}$ : 25327173.7/76

dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 139.093 $\pm$ 57.982  $\chi^2$ /NDF: 13.1/16

Left Out: 27.502 $\pm$ 24.102  $\chi^2$ /NDF:30.0/21

Right Out: 13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

Left In: 56.402 $\pm$ 25.665  $\chi^2$ /NDF:18.9/19

Left: 41.045 $\pm$ 17.569  $\chi^2$ /NDF: 49.6/41

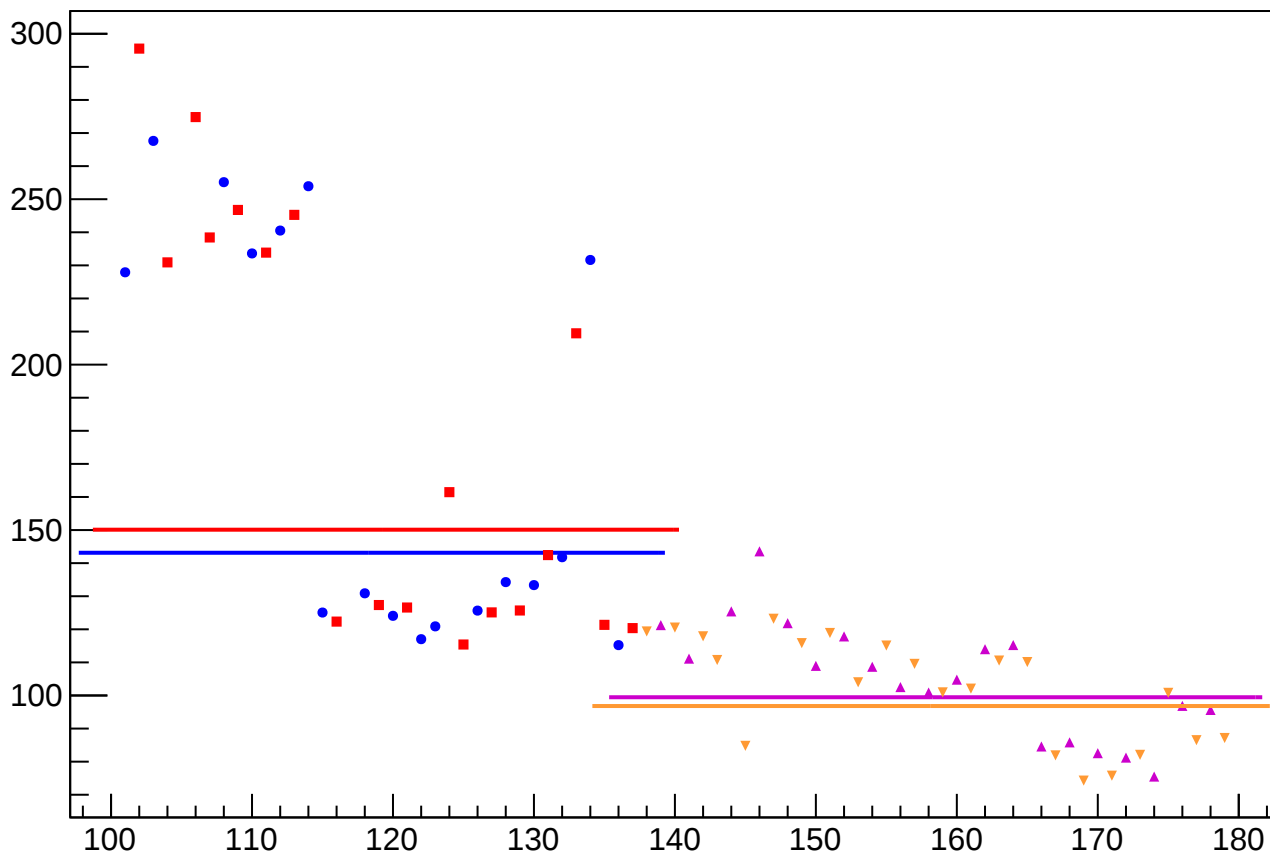
Right: 78.643 $\pm$ 41.737  $\chi^2$ /NDF: 31.8/34

In: 69.950 $\pm$ 23.469  $\chi^2$ /NDF:33.7/36

Out: 25.583 $\pm$ 22.371  $\chi^2$ /NDF:46.5/39

All: 46.705 $\pm$ 16.193  $\chi^2$ /NDF: 82.1/76

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 96.813 $\pm$ 0.017  $\chi^2$ /NDF:887167.0/21

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

Left In: 99.468 $\pm$ 0.018  $\chi^2$ /NDF:832766.2/19

Left: 98.057 $\pm$ 0.012  $\chi^2$ /NDF: 1731303.0/41

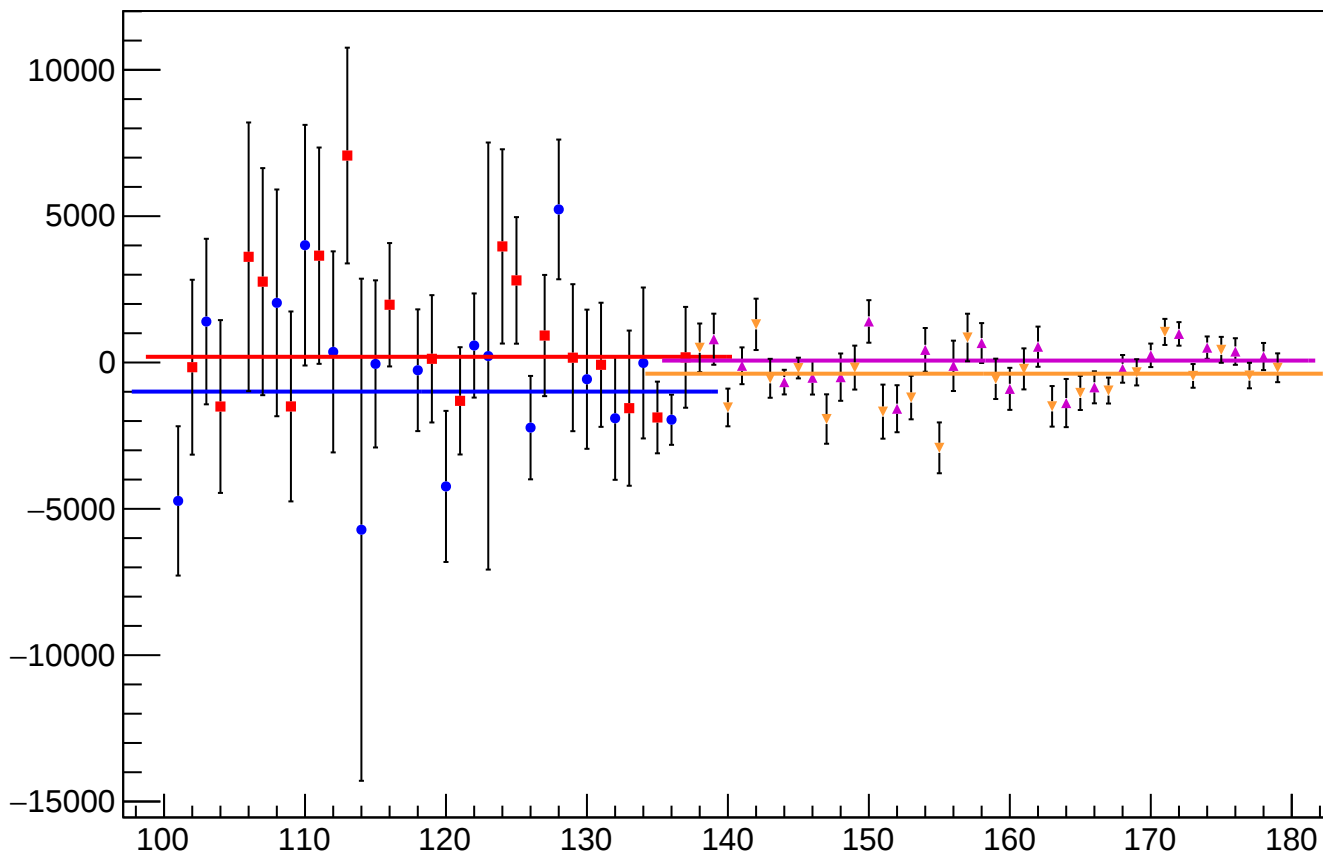
Right: 146.498 $\pm$ 0.030  $\chi^2$ /NDF: 2447968.1/34

In: 106.623 $\pm$ 0.017  $\chi^2$ /NDF:2882770.2/36

Out: 104.191 $\pm$ 0.016  $\chi^2$ /NDF:3573779.8/39

All: 105.349 $\pm$ 0.011  $\chi^2$ /NDF: 6467798.7/76

asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -993.785+/-516.463  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: -382.141+/-120.145  $\chi^2/\text{NDF}$ : 45.4/21

Right Out: 195.049+/-543.821  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 65.824+/-124.176  $\chi^2/\text{NDF}$ : 29.8/19

Left: -165.548+/-86.345  $\chi^2/\text{NDF}$ : 81.9/41

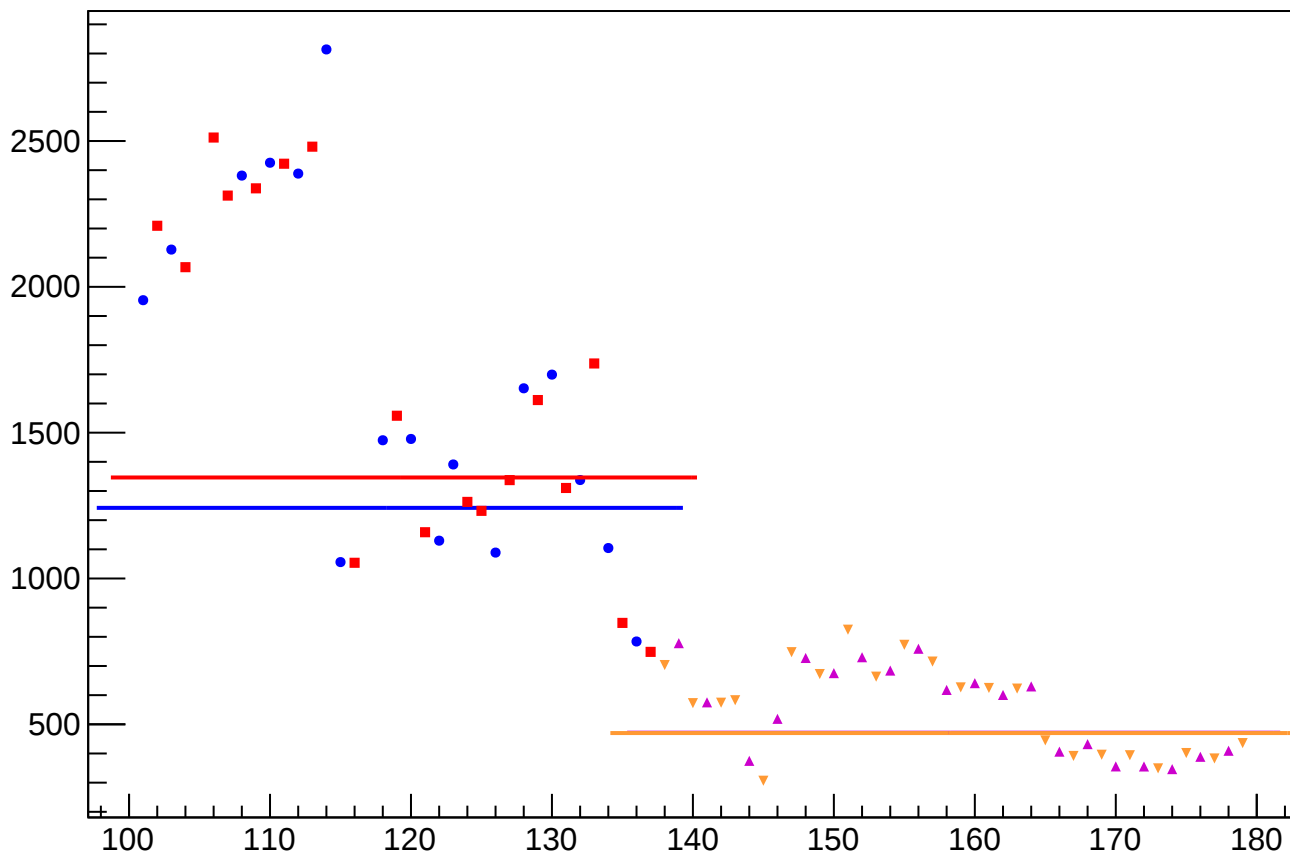
Right: -430.023+/-374.493  $\chi^2/\text{NDF}$ : 33.0/34

In: 7.916+/-120.736  $\chi^2/\text{NDF}$ : 50.7/36

Out: -355.280+/-117.316  $\chi^2/\text{NDF}$ : 60.0/39

All: -178.898+/-84.138  $\chi^2/\text{NDF}$ : 115.4/76

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1242.172+/-0.365  $\chi^2/\text{NDF}$ : 1767422.8/16

Left Out: 470.042+/-0.085  $\chi^2/\text{NDF}$ : 2729832.0/21

Right Out: 1346.340+/-0.385  $\chi^2/\text{NDF}$ : 1809161.2/17

Left In: 471.321+/-0.088  $\chi^2/\text{NDF}$ : 2412677.3/19

Left: 470.660+/-0.061  $\chi^2/\text{NDF}$ : 5142618.9/41

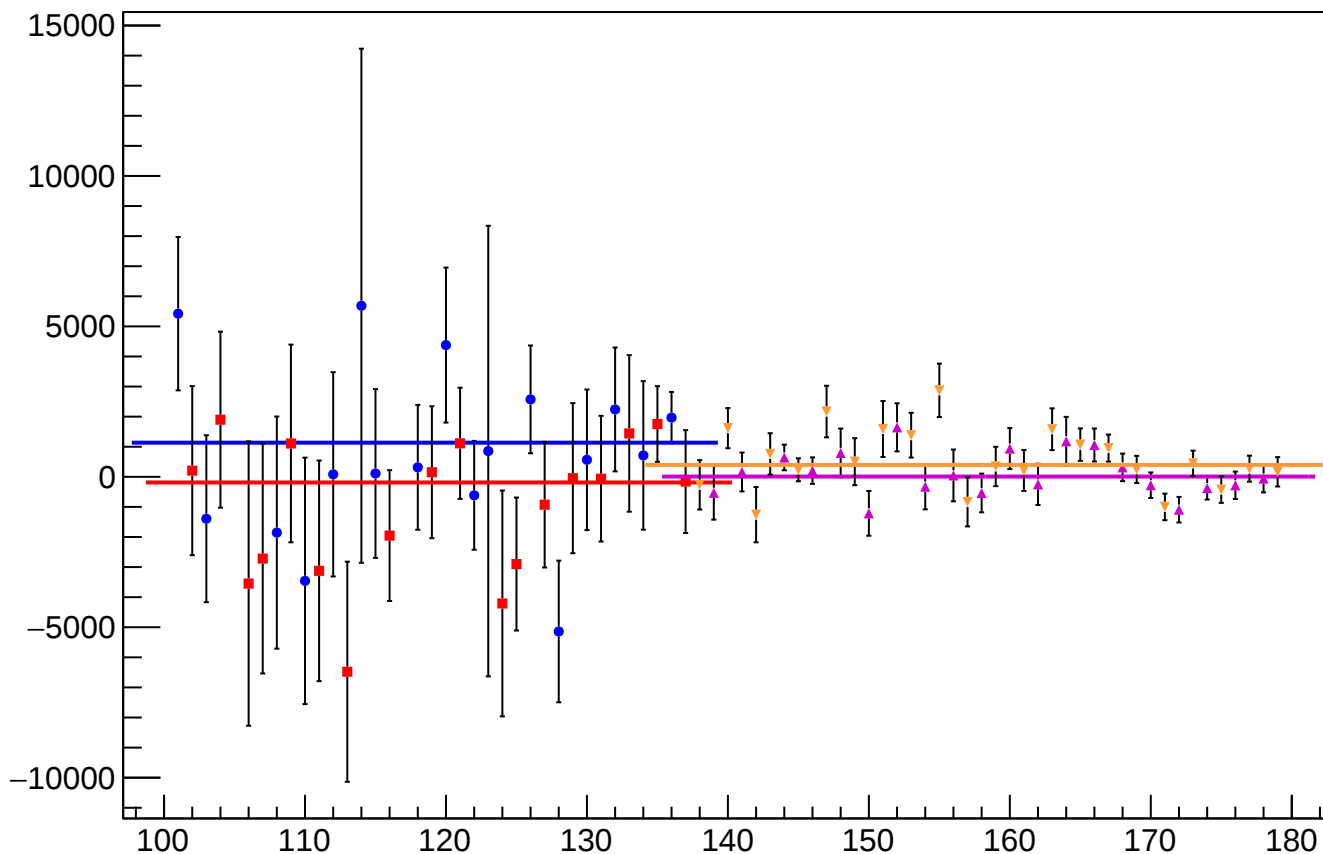
Right: 1291.570+/-0.265  $\chi^2/\text{NDF}$ : 3615166.4/34

In: 513.448+/-0.085  $\chi^2/\text{NDF}$ : 8392066.5/36

Out: 510.823+/-0.083  $\chi^2/\text{NDF}$ : 9490354.6/39

All: 512.098+/-0.059  $\chi^2/\text{NDF}$ : 17882907.6/76

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 1135.222+/-513.770  $\chi^2/\text{NDF}$ : 17.8/16

Left Out: 396.542+/-121.257  $\chi^2/\text{NDF}$ : 45.6/21

Right Out: -187.508+/-548.191  $\chi^2/\text{NDF}$ : 12.0/17

Left In: 9.360+/-122.966  $\chi^2/\text{NDF}$ : 28.4/19

Left: 205.661+/-86.340  $\chi^2/\text{NDF}$ : 79.0/41

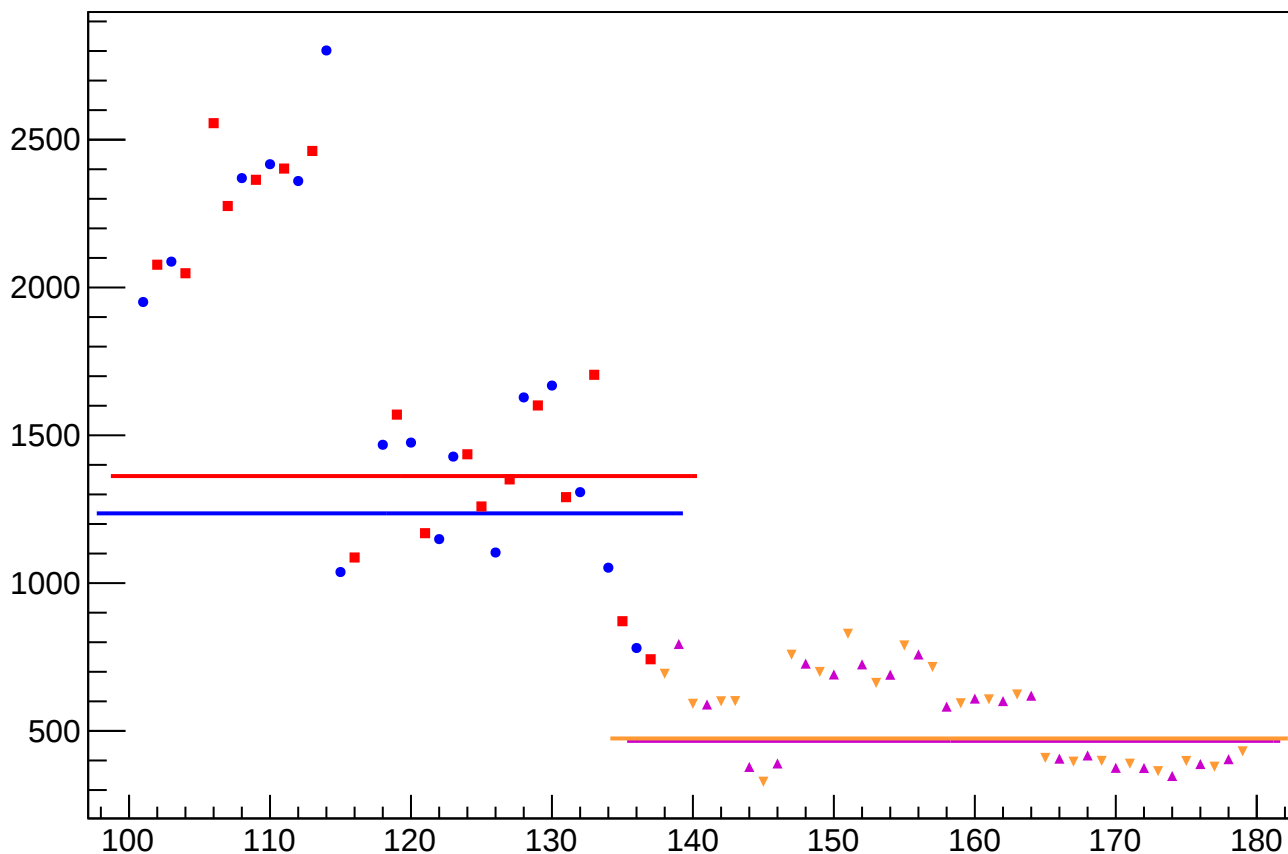
Right: 516.685+/-374.869  $\chi^2/\text{NDF}$ : 32.9/34

In: 70.360+/-119.589  $\chi^2/\text{NDF}$ : 50.7/36

Out: 369.299+/-118.395  $\chi^2/\text{NDF}$ : 58.6/39

All: 221.328+/-84.137  $\chi^2/\text{NDF}$ : 112.5/76

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 1235.939 $\pm$ 0.363  $\chi^2$ /NDF: 1745716.2/16

Left Out: 474.457 $\pm$ 0.086  $\chi^2$ /NDF: 2600566.1/21

Right Out: 1362.092 $\pm$ 0.388  $\chi^2$ /NDF: 1709253.2/17

Left In: 466.336 $\pm$ 0.087  $\chi^2$ /NDF: 2317501.1/19

Left: 470.453 $\pm$ 0.061  $\chi^2$ /NDF: 4922489.2/41

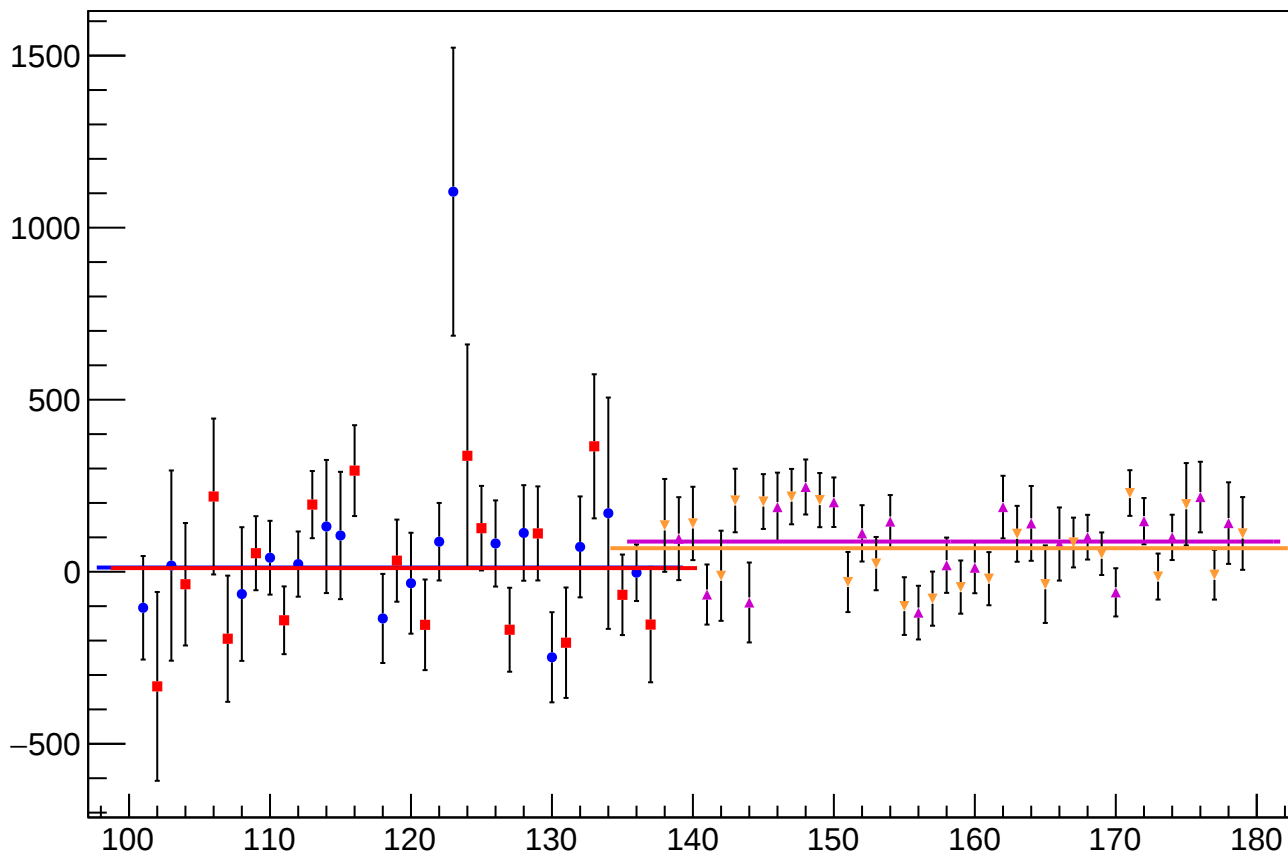
Right: 1294.931 $\pm$ 0.265  $\chi^2$ /NDF: 3511356.6/34

In: 508.033 $\pm$ 0.085  $\chi^2$ /NDF: 8307783.9/36

Out: 515.860 $\pm$ 0.084  $\chi^2$ /NDF: 9308898.2/39

All: 511.986 $\pm$ 0.059  $\chi^2$ /NDF: 17621008.4/76

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 12.308 $\pm$ 33.228  $\chi^2$ /NDF: 15.4/16

Left Out: 68.464 $\pm$ 17.641  $\chi^2$ /NDF:36.4/21

Right Out: 10.591 $\pm$ 32.606  $\chi^2$ /NDF: 26.7/17

Left In: 87.763 $\pm$ 18.589  $\chi^2$ /NDF:30.9/19

Left: 77.608 $\pm$ 12.796  $\chi^2$ /NDF: 67.9/41

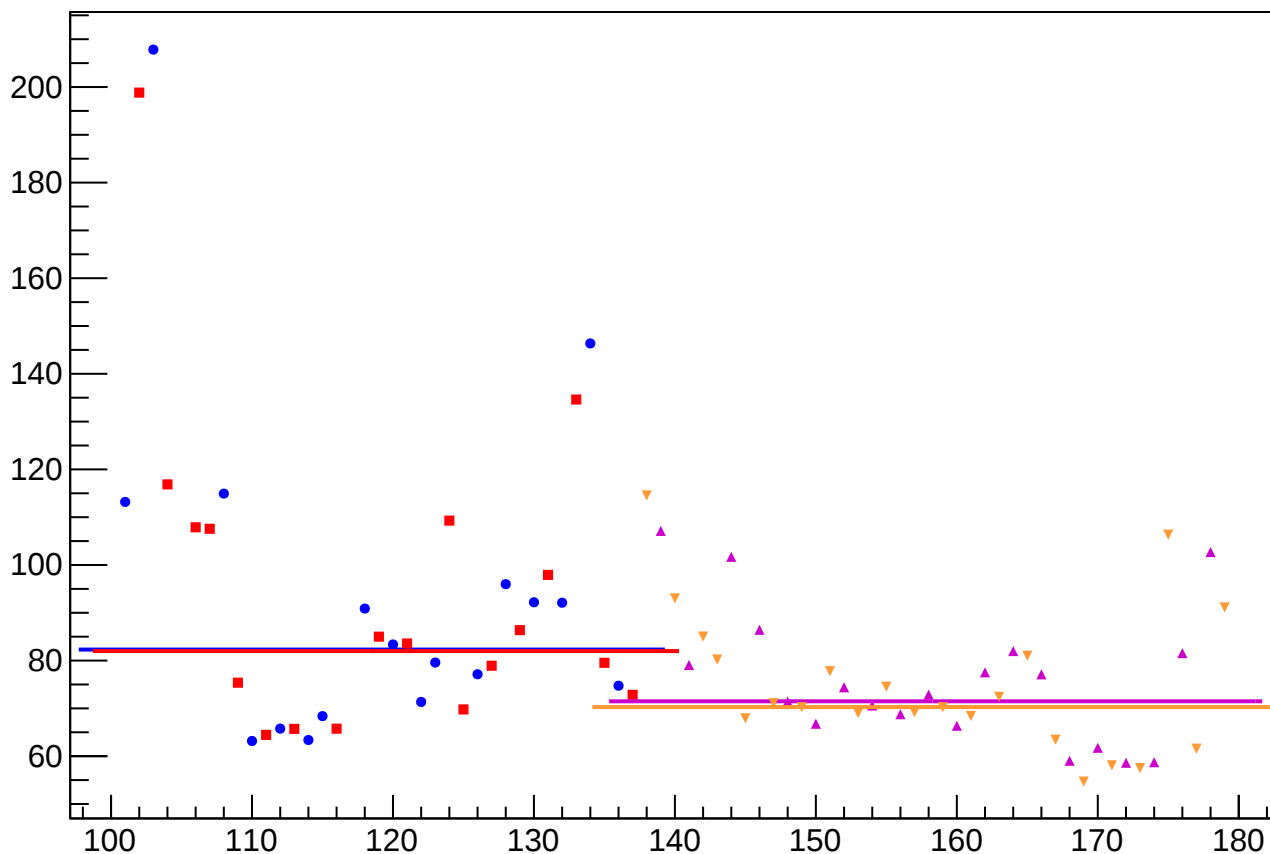
Right: 11.434 $\pm$ 23.273  $\chi^2$ /NDF: 42.1/34

In: 69.776 $\pm$ 16.223  $\chi^2$ /NDF:50.1/36

Out: 55.359 $\pm$ 15.516  $\chi^2$ /NDF:65.6/39

All: 62.247 $\pm$ 11.213  $\chi^2$ /NDF: 116.2/76

dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 82.306 $\pm$ 0.023  $\chi^2$ /NDF: 868742.4/16

Left Out: 70.274 $\pm$ 0.012  $\chi^2$ /NDF: 972495.6/21

Right Out: 81.987 $\pm$ 0.023  $\chi^2$ /NDF: 853217.2/17

Left In: 71.483 $\pm$ 0.013  $\chi^2$ /NDF: 845221.0/19

Left: 70.847 $\pm$ 0.009  $\chi^2$ /NDF: 1822167.7/41

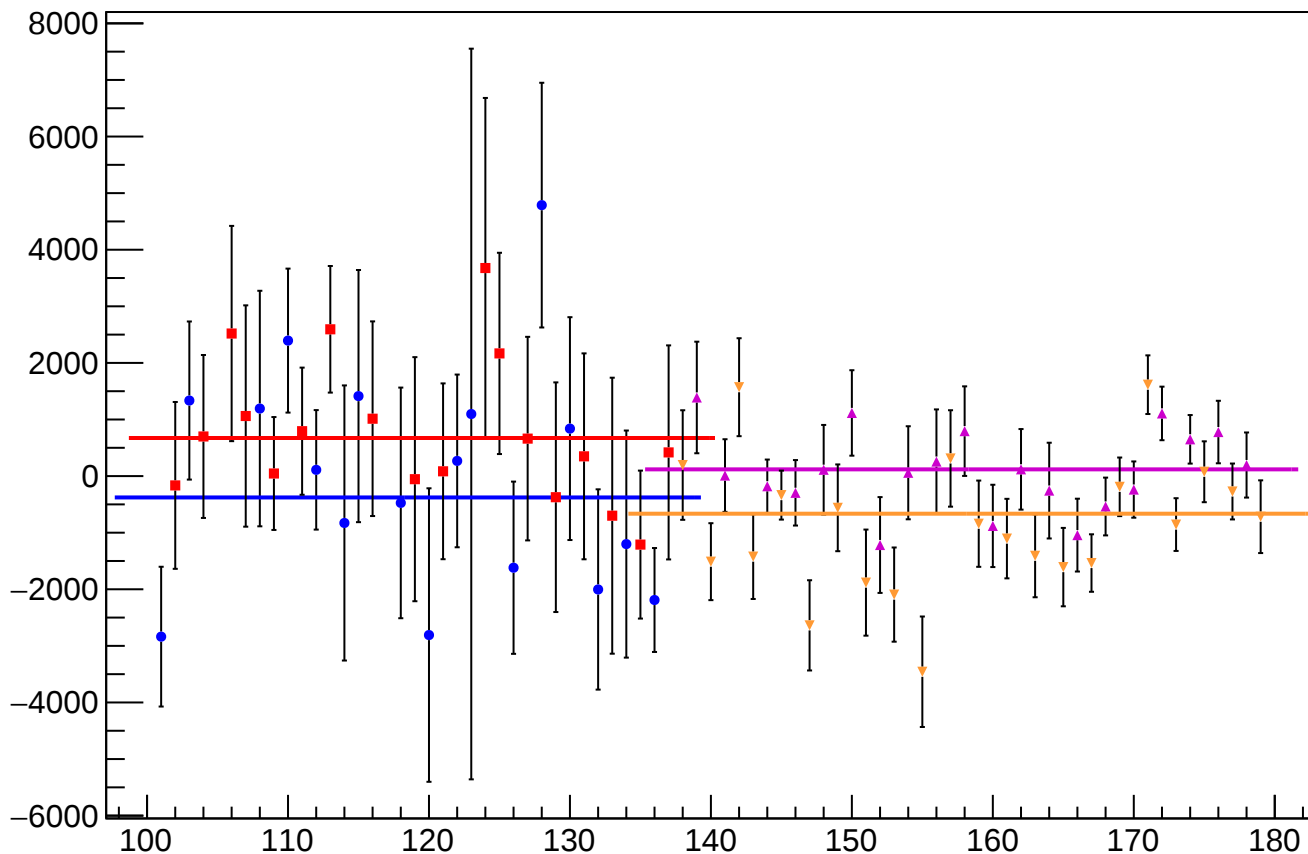
Right: 82.144 $\pm$ 0.016  $\chi^2$ /NDF: 1722053.3/34

In: 74.063 $\pm$ 0.011  $\chi^2$ /NDF: 1875560.3/36

Out: 72.927 $\pm$ 0.011  $\chi^2$ /NDF: 2025366.8/39

All: 73.469 $\pm$ 0.008  $\chi^2$ /NDF: 3906053.8/76

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}: 24.5/16$

Left Out:  $-664.556 \pm 136.611$   $\chi^2/\text{NDF}: 60.1/21$

Right Out:  $673.192 \pm 368.624$   $\chi^2/\text{NDF}: 9.4/17$

Left In:  $118.903 \pm 139.080$   $\chi^2/\text{NDF}: 22.4/19$

Left:  $-279.843 \pm 97.460$   $\chi^2/\text{NDF}: 98.7/41$

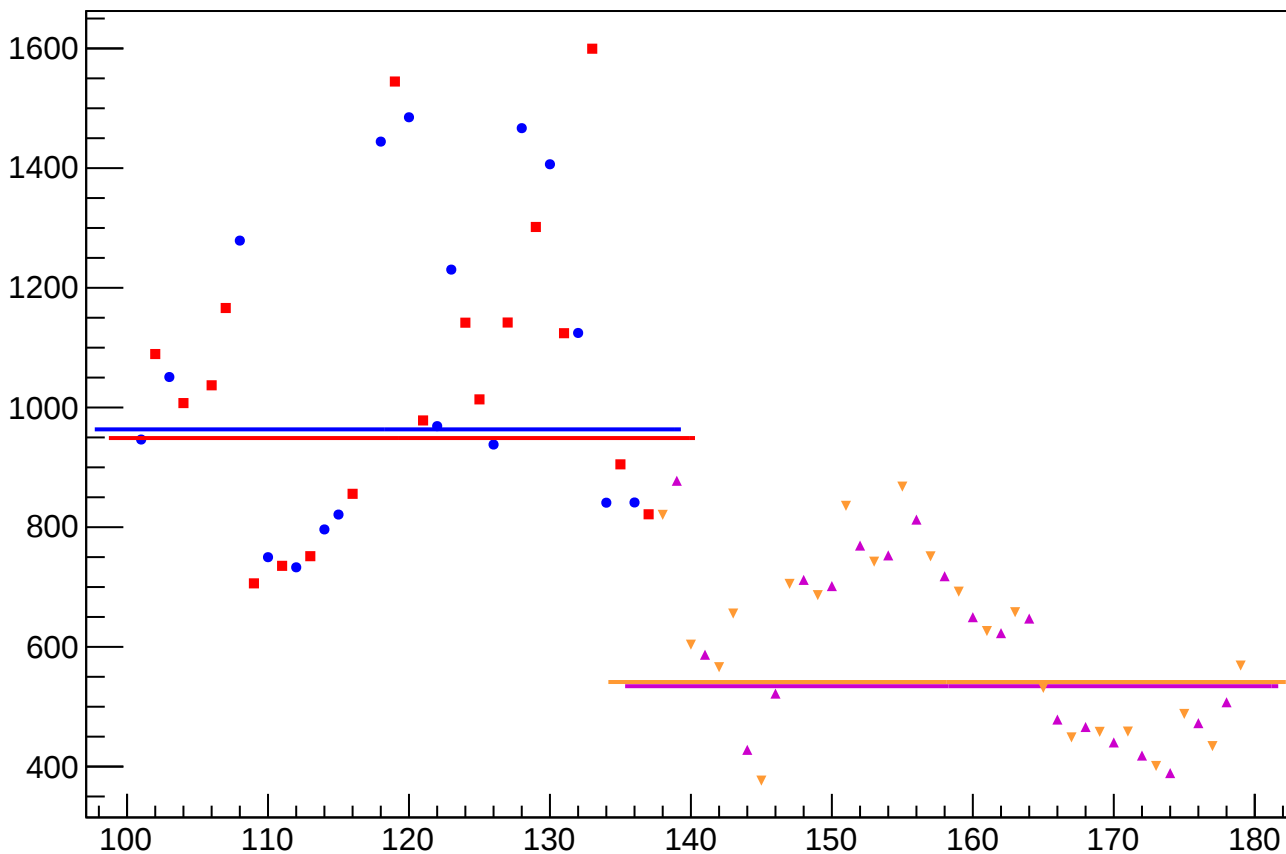
Right:  $169.244 \pm 265.892$   $\chi^2/\text{NDF}: 37.7/34$

In:  $61.328 \pm 130.763$   $\chi^2/\text{NDF}: 48.4/36$

Out:  $-503.013 \pm 128.098$   $\chi^2/\text{NDF}: 81.0/39$

All:  $-226.653 \pm 91.507$   $\chi^2/\text{NDF}: 138.9/76$

asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 963.469+/-0.271  $\chi^2/\text{NDF}$ : 688873.3/16

Left Out: 541.297+/-0.097  $\chi^2/\text{NDF}$ :1964223.1/21

Right Out: 948.947+/-0.261  $\chi^2/\text{NDF}$ : 729378.3/17

Left In: 534.305+/-0.098  $\chi^2/\text{NDF}$ :1760648.7/19

Left: 537.864+/-0.069  $\chi^2/\text{NDF}$ : 3727444.9/41

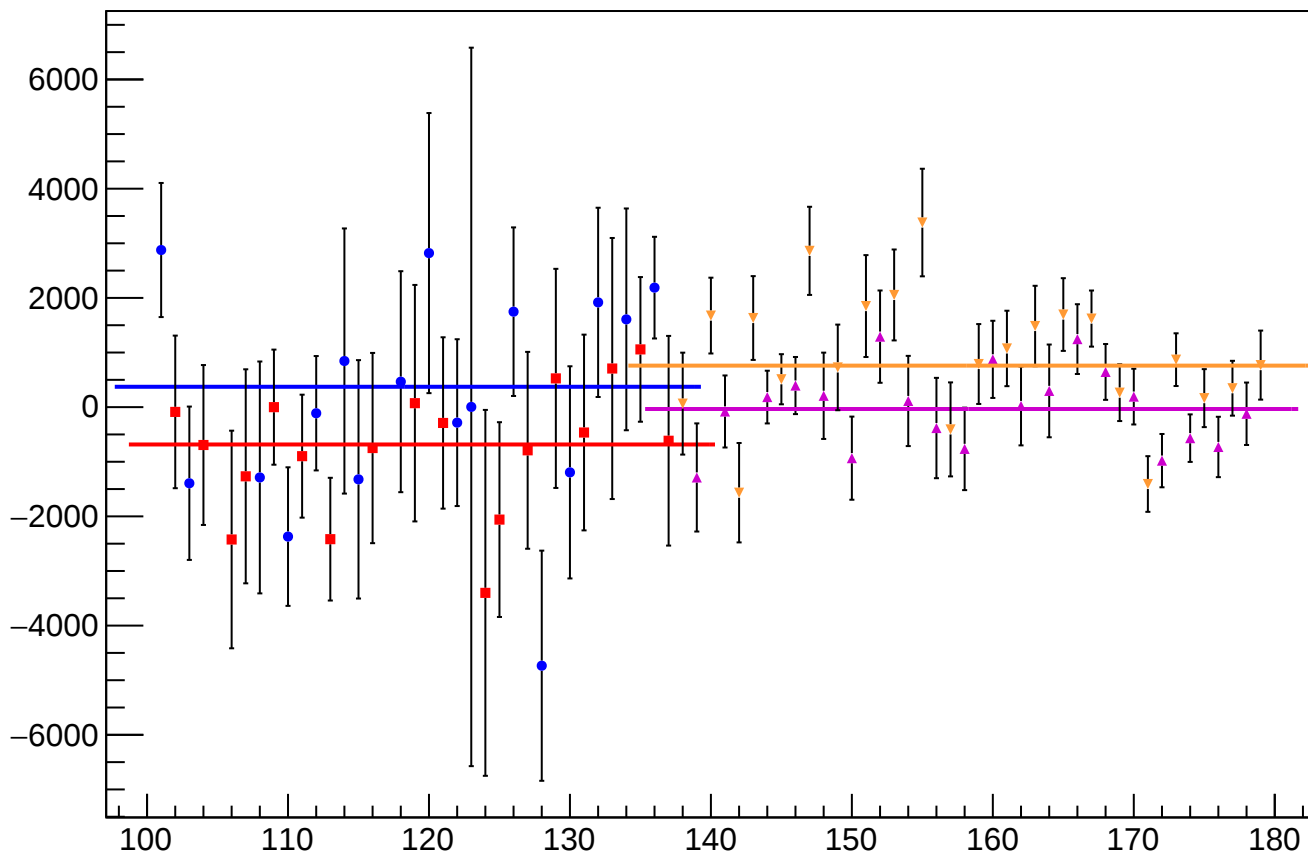
Right: 955.914+/-0.188  $\chi^2/\text{NDF}$ : 1419740.5/34

In: 584.097+/-0.092  $\chi^2/\text{NDF}$ :4658994.9/36

Out: 590.524+/-0.091  $\chi^2/\text{NDF}$ :4844140.0/39

All: 587.377+/-0.065  $\chi^2/\text{NDF}$ : 9505600.1/76

# asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 372.896 $\pm$ 383.661  $\chi^2/\text{NDF}$ : 25.3/16

Left Out: 760.234 $\pm$ 137.703  $\chi^2/\text{NDF}$ : 56.9/21

Right Out: -683.612 $\pm$ 372.418  $\chi^2/\text{NDF}$ : 7.8/17

Left In: -34.043 $\pm$ 139.154  $\chi^2/\text{NDF}$ : 22.2/19

Left: 367.257 $\pm$ 97.880  $\chi^2/\text{NDF}$ : 95.5/41

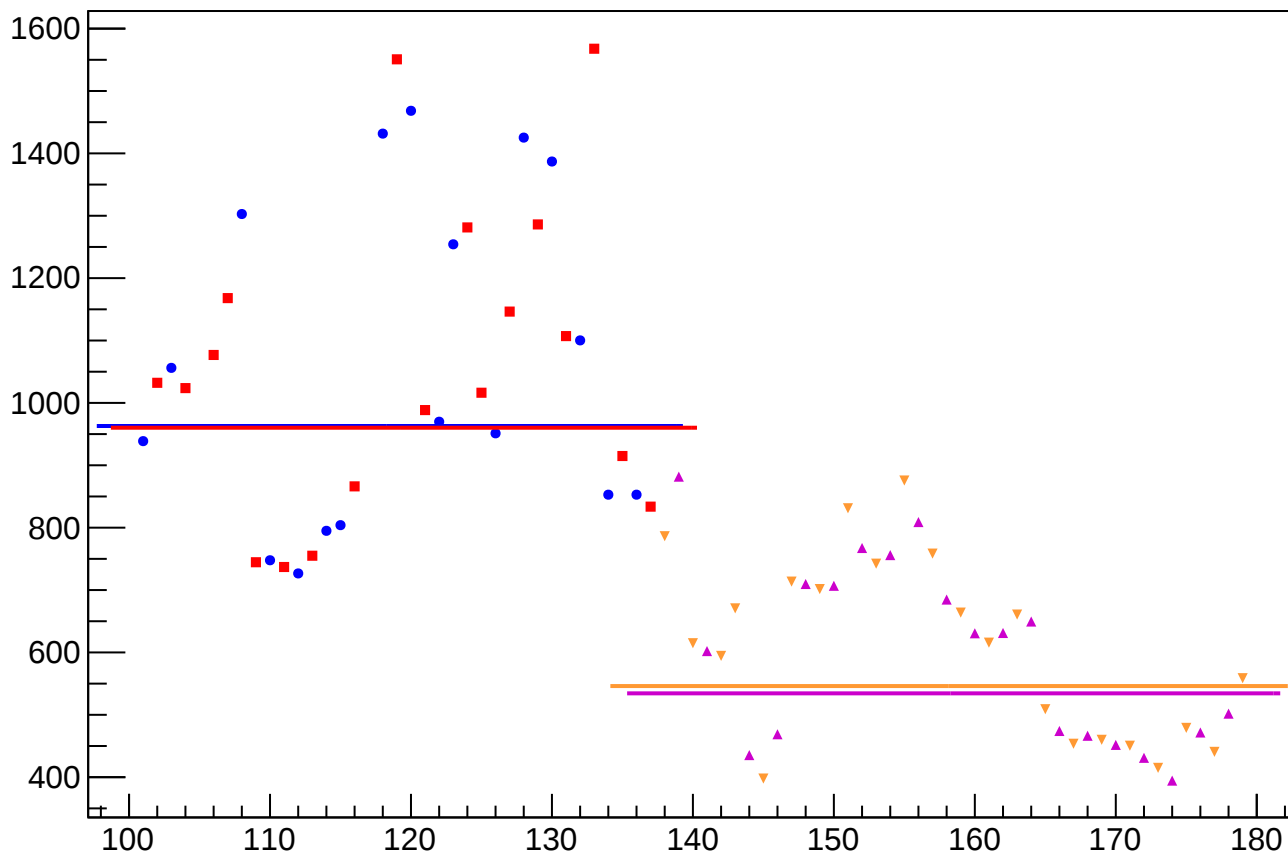
Right: -171.066 $\pm$ 267.226  $\chi^2/\text{NDF}$ : 36.9/34

In: 13.267 $\pm$ 130.815  $\chi^2/\text{NDF}$ : 48.5/36

Out: 586.575 $\pm$ 129.157  $\chi^2/\text{NDF}$ : 77.8/39

All: 303.578 $\pm$ 91.908  $\chi^2/\text{NDF}$ : 136.0/76

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 546.089 $\pm$ 0.097  $\chi^2$ /NDF: 1813048.3/21

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

Left In: 534.404 $\pm$ 0.098  $\chi^2$ /NDF: 1681980.2/19

Left: 540.308 $\pm$ 0.069  $\chi^2$ /NDF: 3502152.5/41

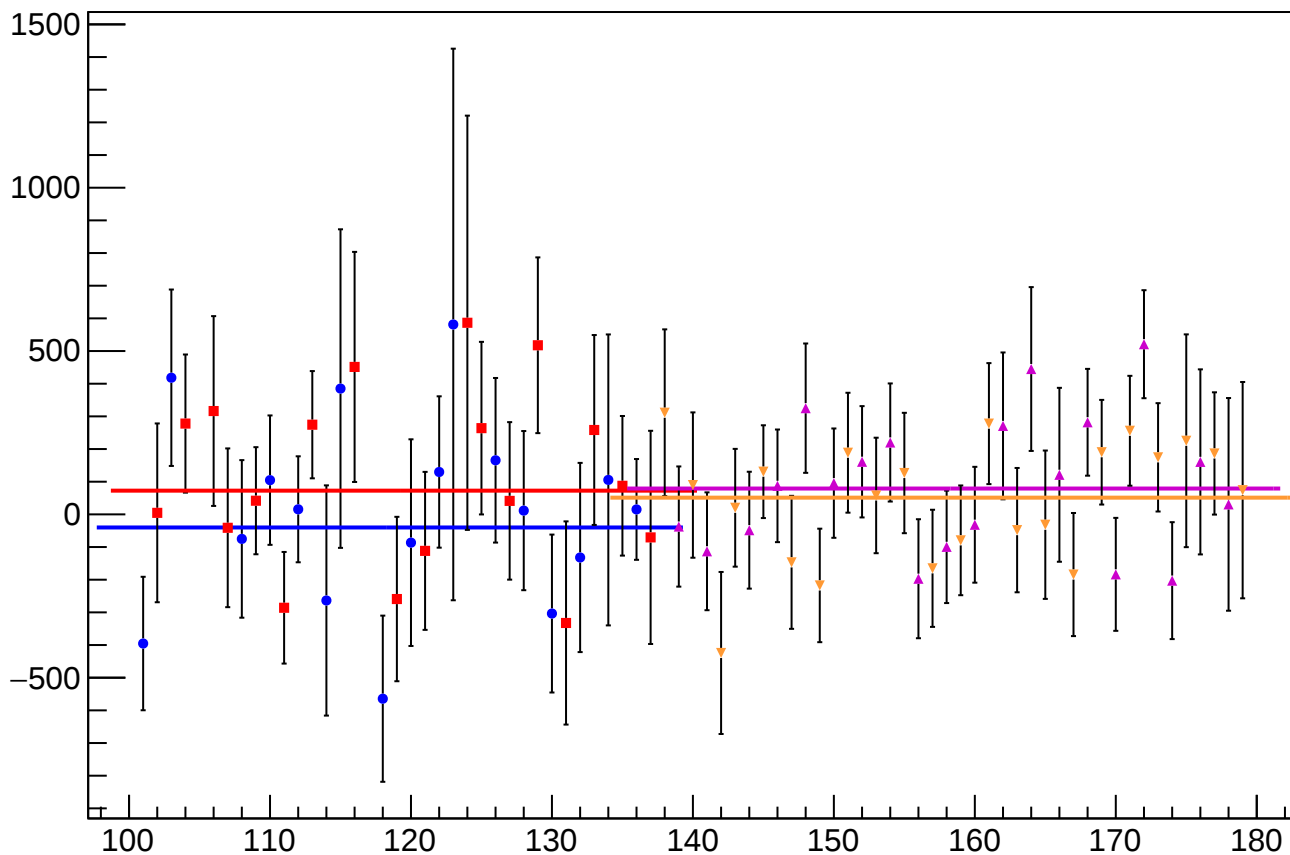
Right: 961.553 $\pm$ 0.189  $\chi^2$ /NDF: 1338584.2/34

In: 584.228 $\pm$ 0.093  $\chi^2$ /NDF: 4554940.5/36

Out: 595.898 $\pm$ 0.091  $\chi^2$ /NDF: 4659700.2/39

All: 590.138 $\pm$ 0.065  $\chi^2$ /NDF: 9222700.0/76

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In:  $-40.122 \pm 59.256$   $\chi^2/\text{NDF}: 15.3/16$

Left Out:  $51.172 \pm 40.514$   $\chi^2/\text{NDF}: 18.3/21$

Right Out:  $72.607 \pm 56.313$   $\chi^2/\text{NDF}: 17.6/17$

Left In:  $79.091 \pm 42.351$   $\chi^2/\text{NDF}: 24.7/19$

Left:  $64.513 \pm 29.276$   $\chi^2/\text{NDF}: 43.2/41$

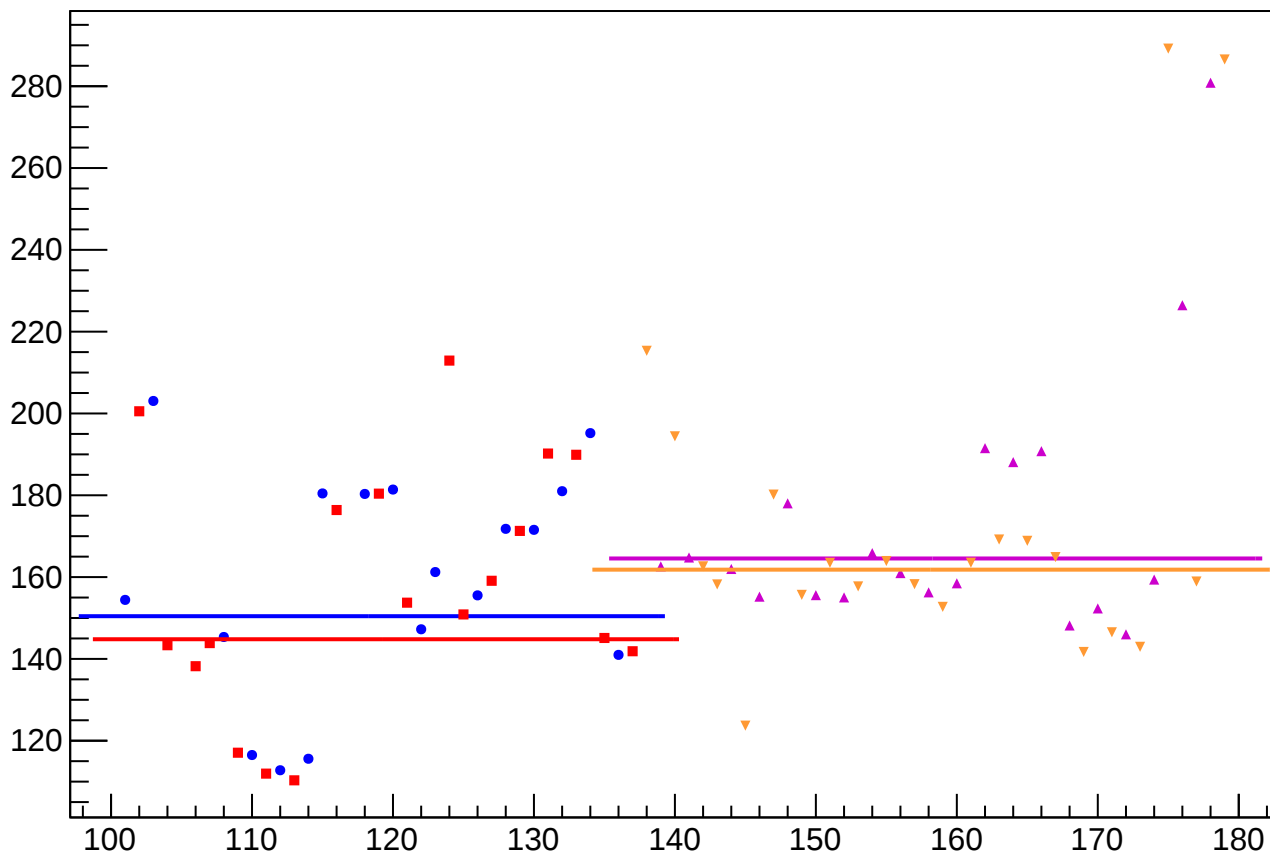
Right:  $19.111 \pm 40.820$   $\chi^2/\text{NDF}: 34.8/34$

In:  $38.784 \pm 34.456$   $\chi^2/\text{NDF}: 42.7/36$

Out:  $58.482 \pm 32.887$   $\chi^2/\text{NDF}: 36.0/39$

All:  $49.092 \pm 23.790$   $\chi^2/\text{NDF}: 78.8/76$

dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 161.818 $\pm$ 0.029  $\chi^2$ /NDF: 972560.1/21

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

Left In: 164.550 $\pm$ 0.030  $\chi^2$ /NDF: 509141.5/19

Left: 163.124 $\pm$ 0.021  $\chi^2$ /NDF: 1486046.7/41

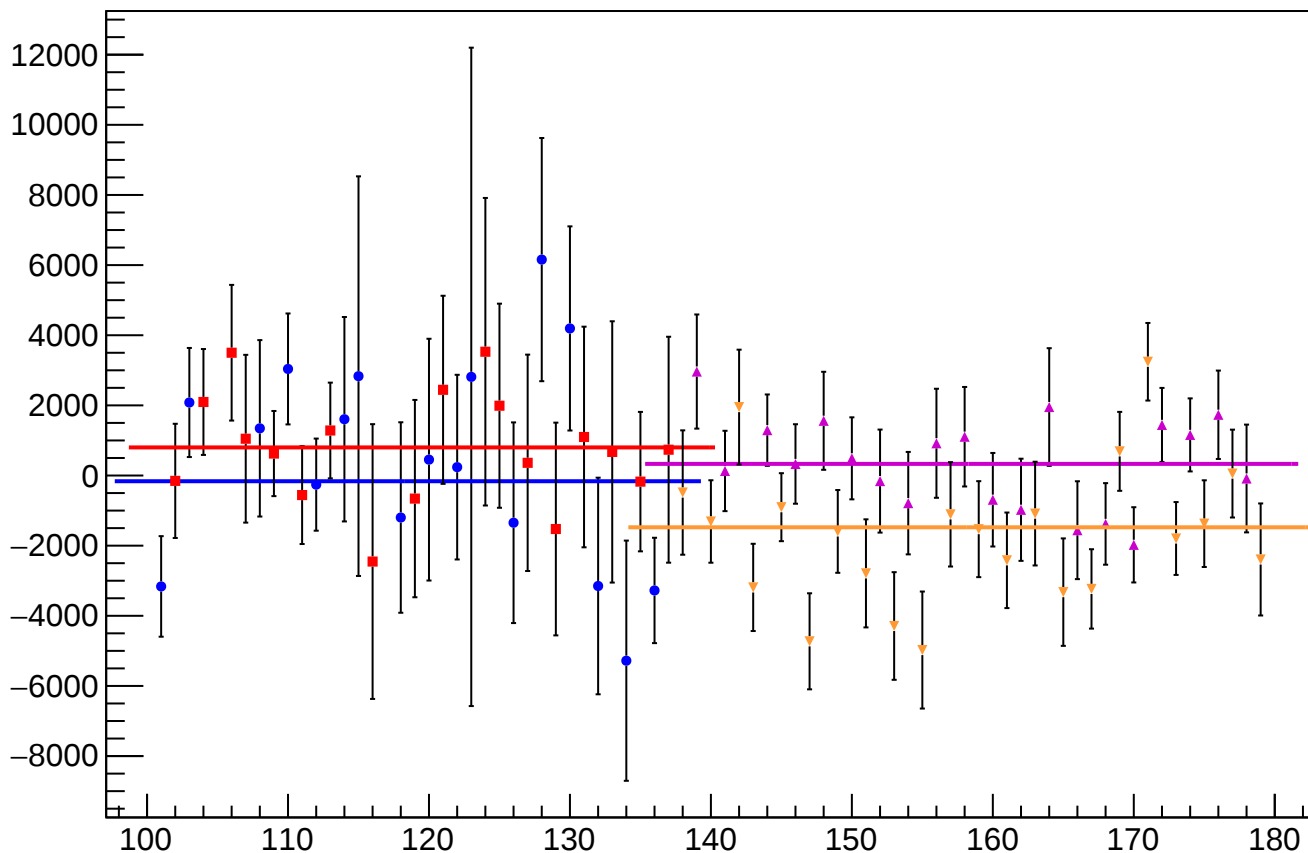
Right: 147.481 $\pm$ 0.029  $\chi^2$ /NDF: 913486.7/34

In: 159.780 $\pm$ 0.024  $\chi^2$ /NDF: 984305.3/36

Out: 156.016 $\pm$ 0.023  $\chi^2$ /NDF: 1596683.1/39

All: 157.811 $\pm$ 0.017  $\chi^2$ /NDF: 2593474.4/76

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}: 25.1/16$

Left Out:  $-1476.392 \pm 277.482$   $\chi^2/\text{NDF}: 49.4/21$

Right Out:  $801.139 \pm 486.610$   $\chi^2/\text{NDF}: 6.9/17$

Left In:  $331.469 \pm 284.498$   $\chi^2/\text{NDF}: 19.5/19$

Left:  $-595.028 \pm 198.643$   $\chi^2/\text{NDF}: 89.6/41$

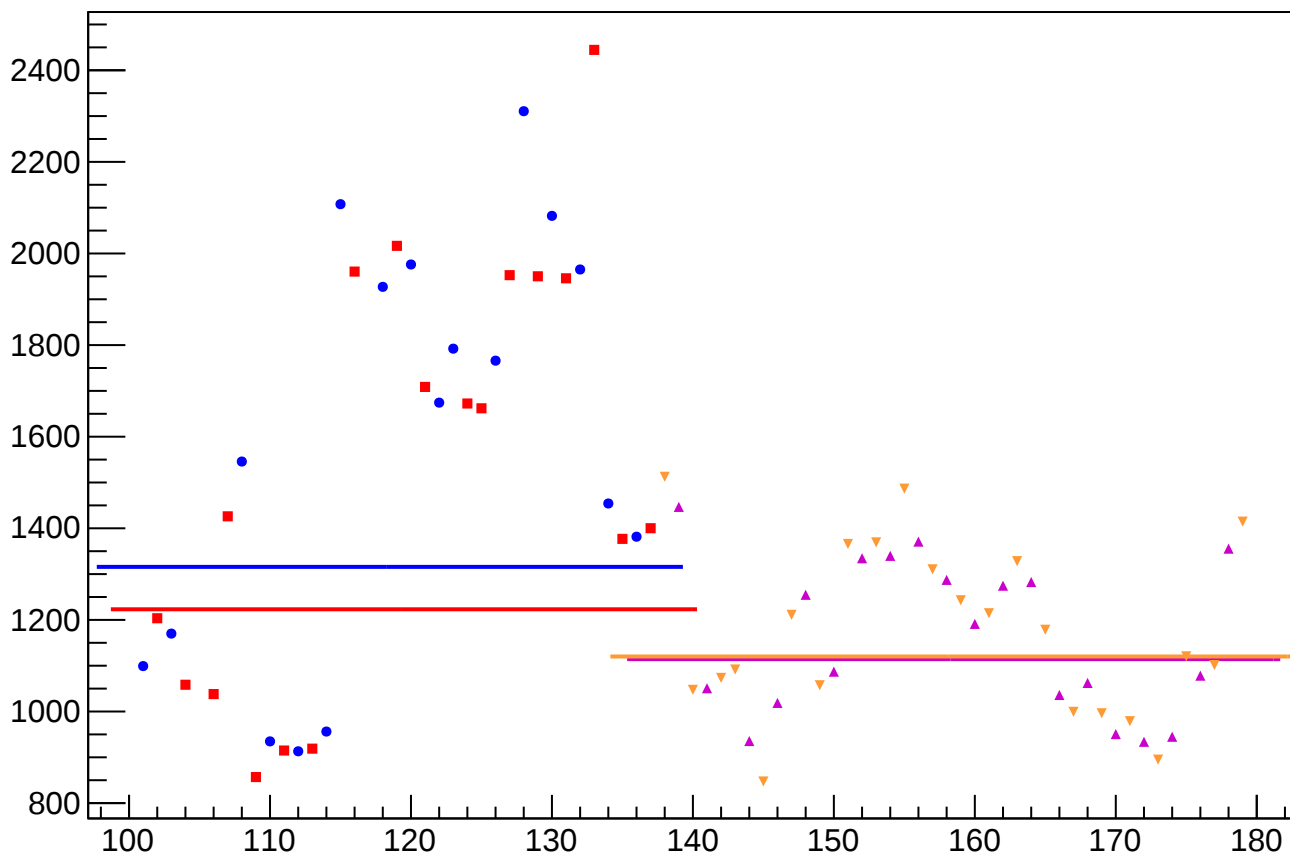
Right:  $363.081 \pm 359.419$   $\chi^2/\text{NDF}: 33.7/34$

In:  $221.924 \pm 250.999$   $\chi^2/\text{NDF}: 45.2/36$

Out:  $-917.535 \pm 241.046$   $\chi^2/\text{NDF}: 72.8/39$

All:  $-370.847 \pm 173.857$   $\chi^2/\text{NDF}: 128.8/76$

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1315.784 $\pm$ 0.377  $\chi^2$ /NDF: 1118346.6/16

Left Out: 1120.116 $\pm$ 0.196  $\chi^2$ /NDF: 824317.5/21

Right Out: 1223.179 $\pm$ 0.344  $\chi^2$ /NDF: 1363055.0/17

Left In: 1114.413 $\pm$ 0.201  $\chi^2$ /NDF: 633990.5/19

Left: 1117.336 $\pm$ 0.140  $\chi^2$ /NDF: 1458719.8/41

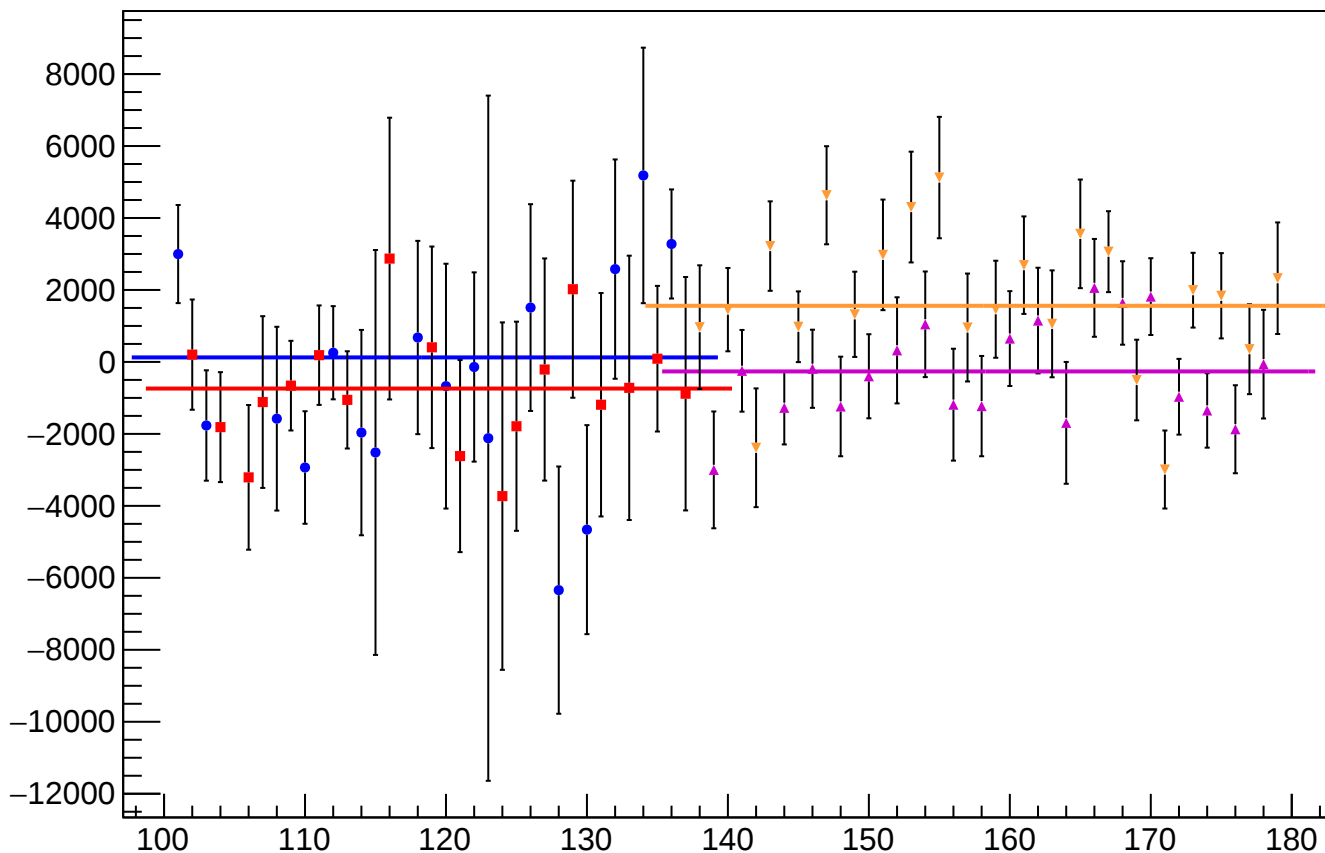
Right: 1265.263 $\pm$ 0.254  $\chi^2$ /NDF: 2514318.9/34

In: 1159.043 $\pm$ 0.177  $\chi^2$ /NDF: 1974406.8/36

Out: 1145.405 $\pm$ 0.170  $\chi^2$ /NDF: 2255074.2/39

All: 1151.948 $\pm$ 0.123  $\chi^2$ /NDF: 4232552.3/76

# asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1559.946 $\pm$ 275.792  $\chi^2$ /NDF:48.5/21

Right Out: -739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

Left In: -264.182 $\pm$ 282.021  $\chi^2$ /NDF:20.9/19

Left: 668.247 $\pm$ 197.180  $\chi^2$ /NDF: 90.9/41

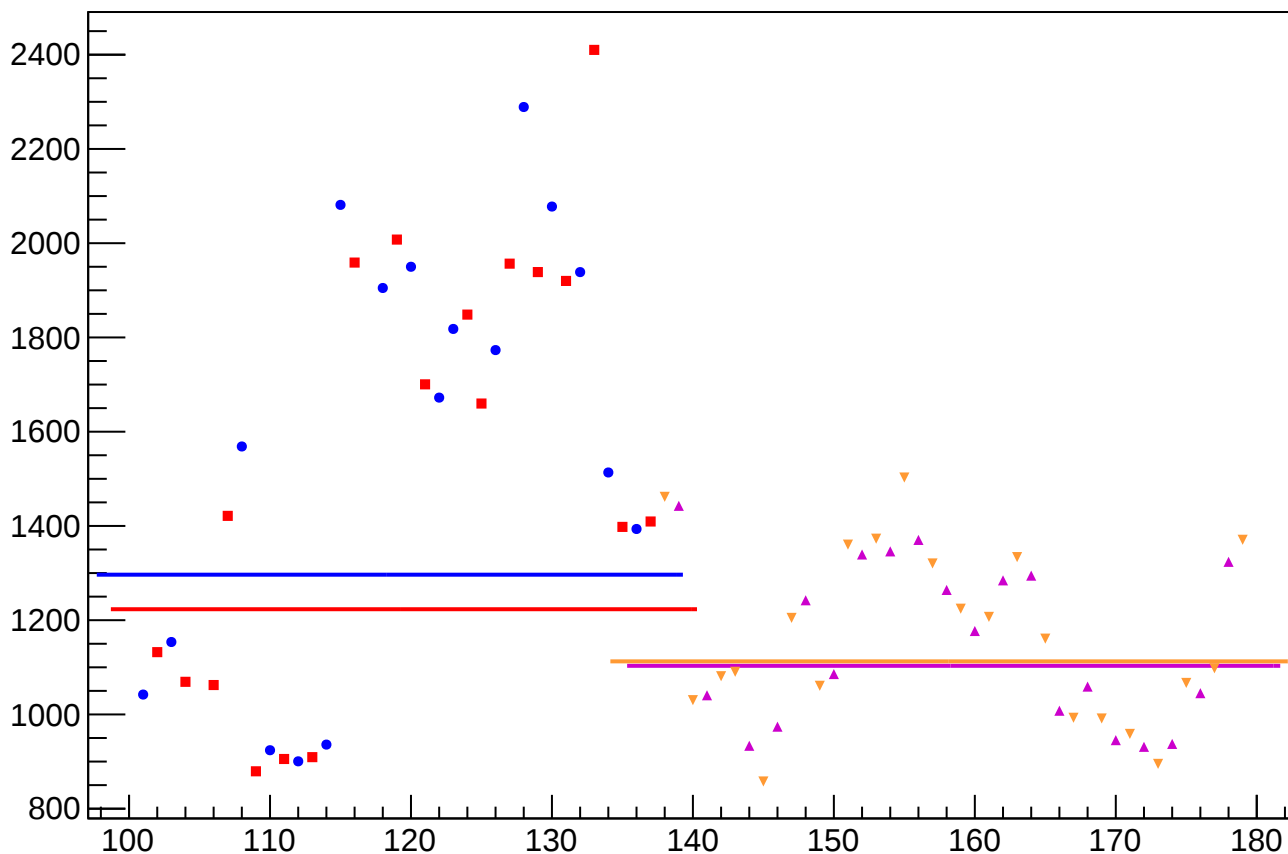
Right: -341.379 $\pm$ 357.529  $\chi^2$ /NDF: 32.1/34

In: -177.406 $\pm$ 248.634  $\chi^2$ /NDF:46.0/36

Out: 1001.130 $\pm$ 239.959  $\chi^2$ /NDF:71.4/39

All: 432.779 $\pm$ 172.662  $\chi^2$ /NDF: 129.1/76

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 1296.573 $\pm$ 0.373  $\chi^2/\text{NDF}$ : 1175465.2/16

Left Out: 1112.641 $\pm$ 0.195  $\chi^2/\text{NDF}$ : 798620.0/21

Right Out: 1223.274 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 1346689.2/17

Left In: 1103.203 $\pm$ 0.199  $\chi^2/\text{NDF}$ : 660601.3/19

Left: 1108.027 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 1460366.2/41

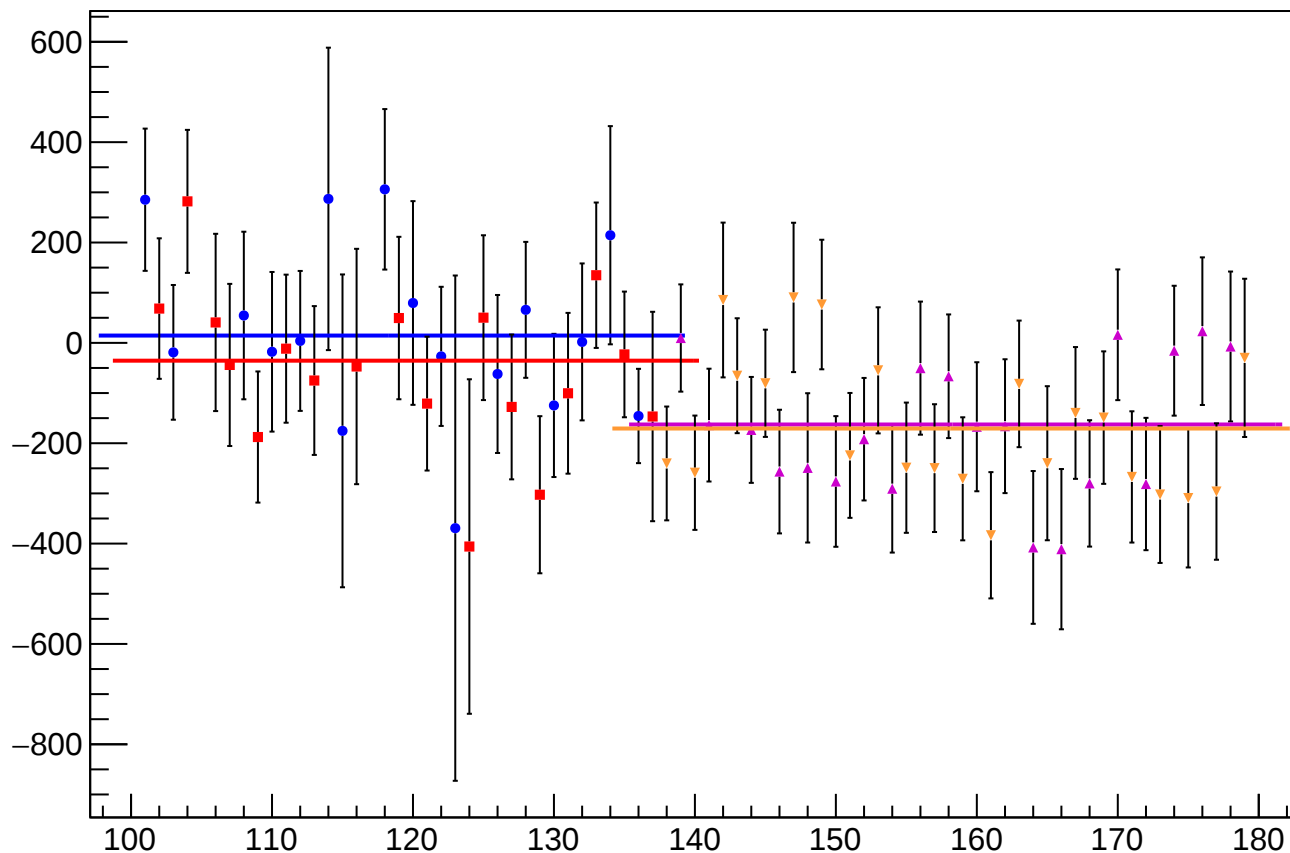
Right: 1257.036 $\pm$ 0.253  $\chi^2/\text{NDF}$ : 2543039.6/34

In: 1146.277 $\pm$ 0.176  $\chi^2/\text{NDF}$ : 2045514.1/36

Out: 1139.522 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 2223508.4/39

All: 1142.779 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 4269786.9/76

dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



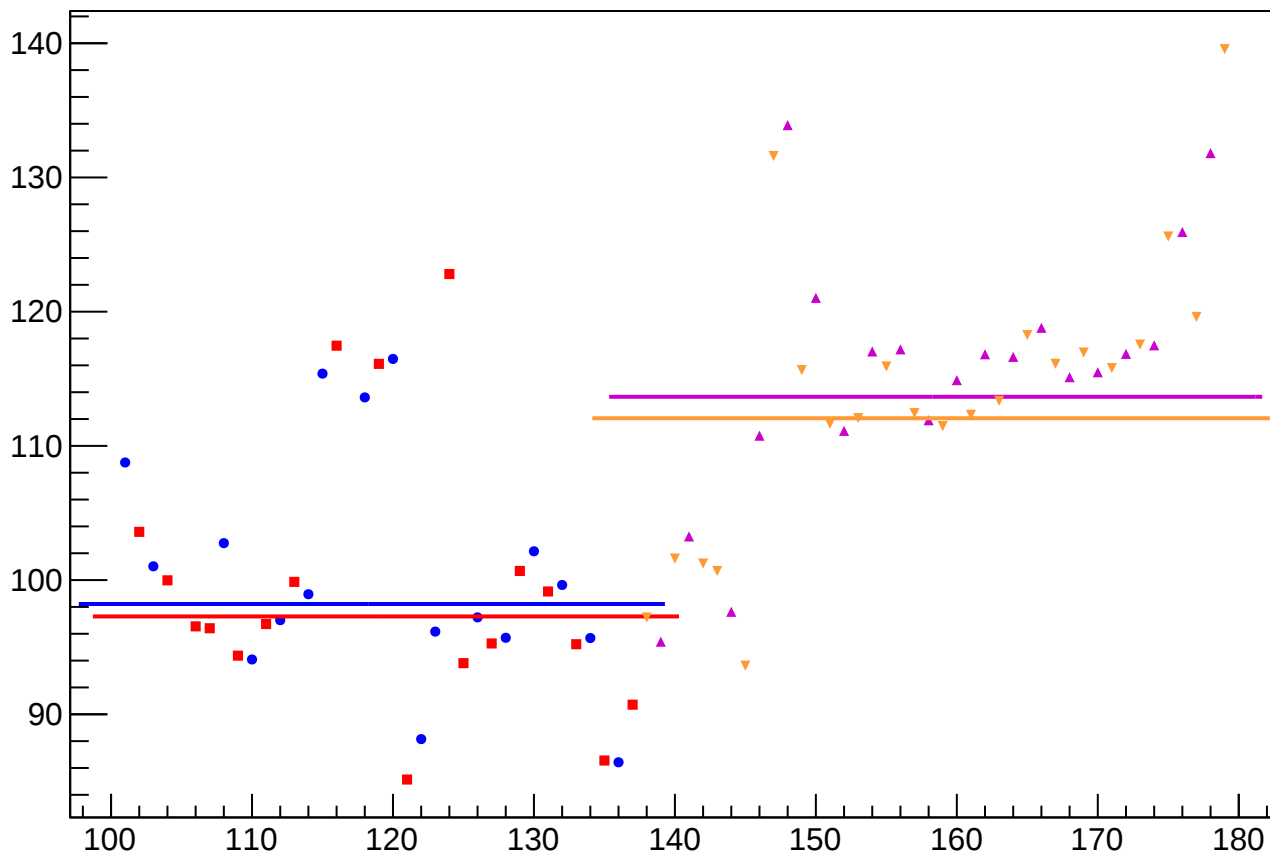
Right In:  $14.577 \pm 38.017$   $\chi^2/\text{NDF}: 14.2/16$   
 Left Out:  $-170.680 \pm 27.483$   $\chi^2/\text{NDF}: 22.3/21$   
 Right Out:  $-35.475 \pm 36.728$   $\chi^2/\text{NDF}: 14.5/17$   
 Left In:  $-162.676 \pm 28.781$   $\chi^2/\text{NDF}: 19.2/19$

Left:  $-166.862 \pm 19.876$   $\chi^2/\text{NDF}: 41.5/41$   
 Right:  $-11.312 \pm 26.414$   $\chi^2/\text{NDF}: 29.6/34$

In:  $-98.098 \pm 22.947$   $\chi^2/\text{NDF}: 47.2/36$   
 Out:  $-122.149 \pm 22.004$   $\chi^2/\text{NDF}: 45.5/39$

All:  $-110.627 \pm 15.882$   $\chi^2/\text{NDF}: 93.3/76$

dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.219 $\pm$ 0.027  $\chi^2$ /NDF: 100510.4/16

Left Out: 112.058 $\pm$ 0.019  $\chi^2$ /NDF: 277337.5/21

Right Out: 97.290 $\pm$ 0.026  $\chi^2$ /NDF: 96216.6/17

Left In: 113.658 $\pm$ 0.020  $\chi^2$ /NDF: 221363.8/19

Left: 112.821 $\pm$ 0.014  $\chi^2$ /NDF: 501931.6/41

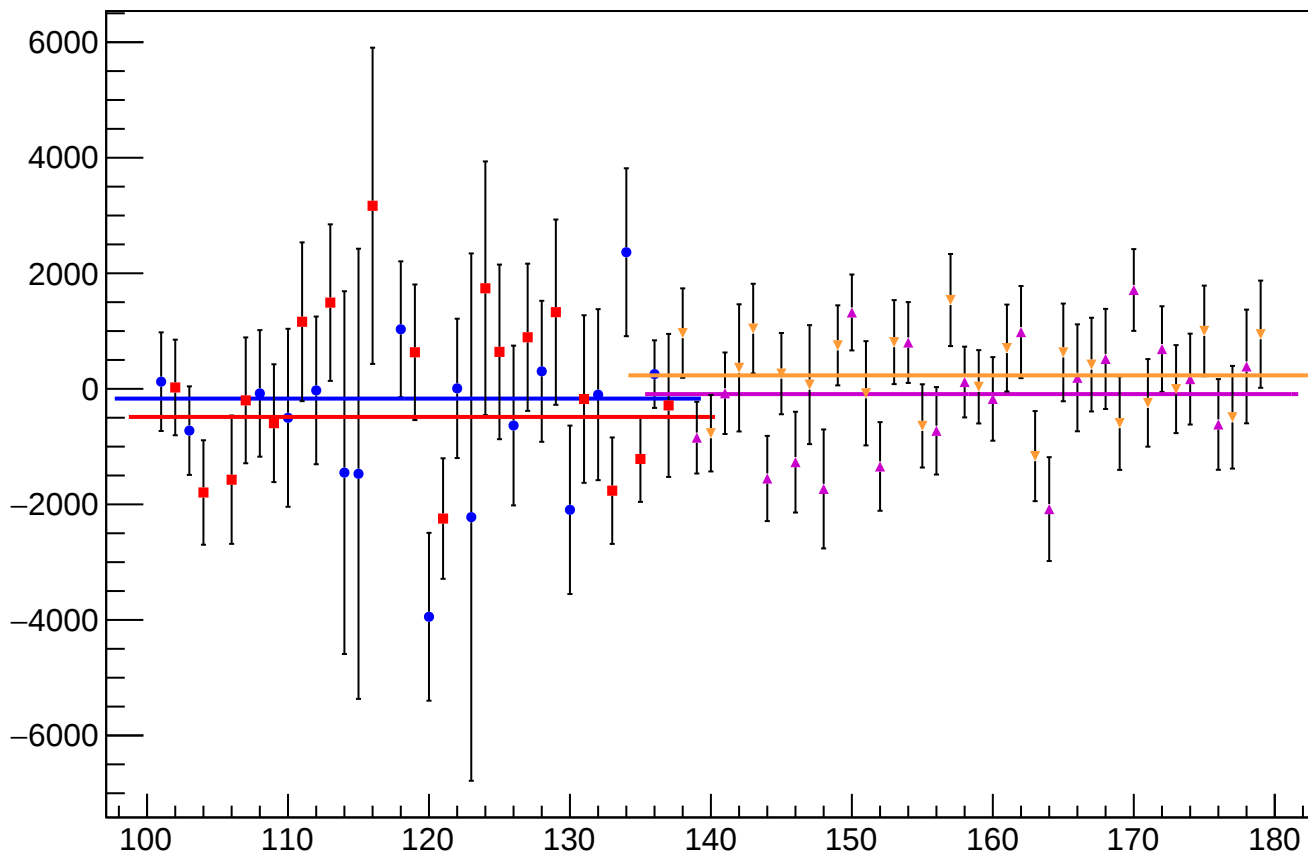
Right: 97.739 $\pm$ 0.019  $\chi^2$ /NDF: 197344.2/34

In: 108.033 $\pm$ 0.016  $\chi^2$ /NDF: 531543.1/36

Out: 106.757 $\pm$ 0.016  $\chi^2$ /NDF: 580841.2/39

All: 107.368 $\pm$ 0.011  $\chi^2$ /NDF: 1115603.9/76

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -168.802 $\pm$ 282.178  $\chi^2$ /NDF: 14.6/16

Left Out: 233.173 $\pm$ 166.750  $\chi^2$ /NDF:17.5/21

Right Out: -486.312 $\pm$ 268.010  $\chi^2$ /NDF: 19.6/17

Left In: -91.279 $\pm$ 170.302  $\chi^2$ /NDF:35.2/19

Left: 74.365 $\pm$ 119.146  $\chi^2$ /NDF: 54.5/41

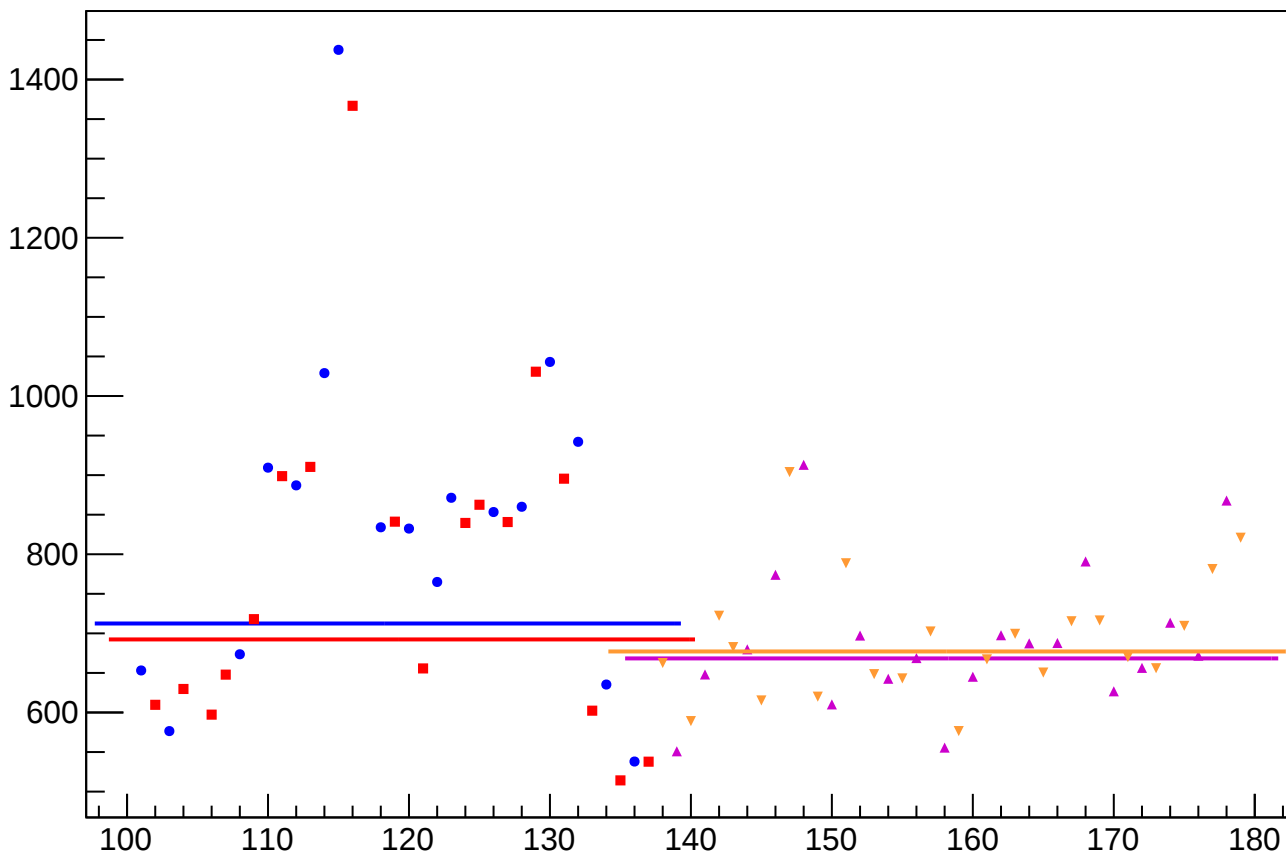
Right: -335.728 $\pm$ 194.327  $\chi^2$ /NDF: 34.9/34

In: -111.977 $\pm$ 145.805  $\chi^2$ /NDF:49.8/36

Out: 32.382 $\pm$ 141.583  $\chi^2$ /NDF:42.3/39

All: -37.677 $\pm$ 101.574  $\chi^2$ /NDF: 92.6/76

asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 712.476+/-0.200  $\chi^2/\text{NDF}$ : 660520.6/16

Left Out: 677.133+/-0.118  $\chi^2/\text{NDF}$ : 349751.6/21

Right Out: 692.342+/-0.190  $\chi^2/\text{NDF}$ : 656953.1/17

Left In: 668.339+/-0.120  $\chi^2/\text{NDF}$ : 447723.6/19

Left: 672.829+/-0.084  $\chi^2/\text{NDF}$ : 800198.1/41

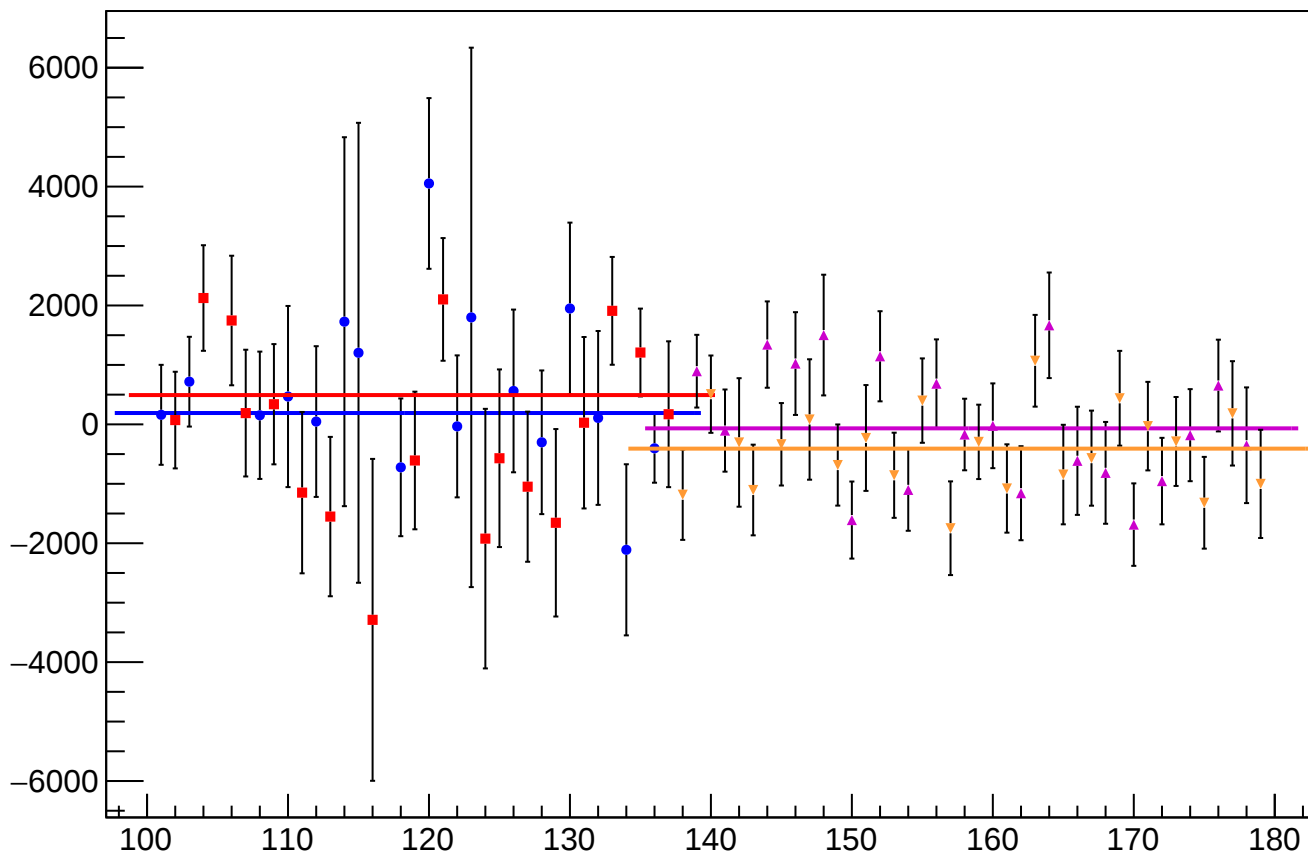
Right: 701.891+/-0.137  $\chi^2/\text{NDF}$ : 1322826.7/34

In: 680.123+/-0.103  $\chi^2/\text{NDF}$ : 1144110.9/36

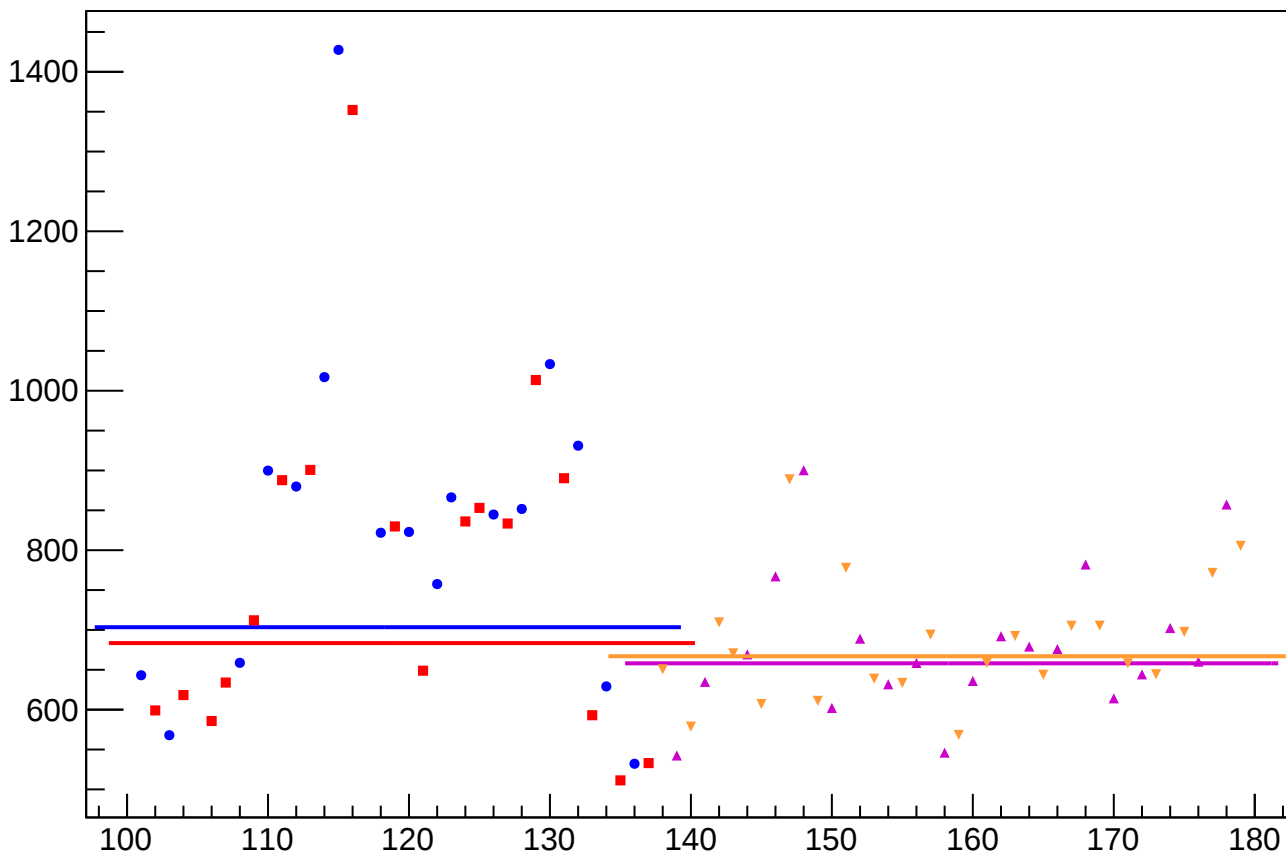
Out: 681.378+/-0.100  $\chi^2/\text{NDF}$ : 1011347.7/39

All: 680.769+/-0.072  $\chi^2/\text{NDF}$ : 2155534.8/76

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 703.406 $\pm$ 0.197  $\chi^2$ /NDF: 666885.8/16

Left Out: 666.983 $\pm$ 0.116  $\chi^2$ /NDF:348924.4/21

Right Out: 683.493 $\pm$ 0.187  $\chi^2$ /NDF: 659356.0/17

Left In: 658.108 $\pm$ 0.119  $\chi^2$ /NDF:458701.2/19

Left: 662.638 $\pm$ 0.083  $\chi^2$ /NDF: 810483.3/41

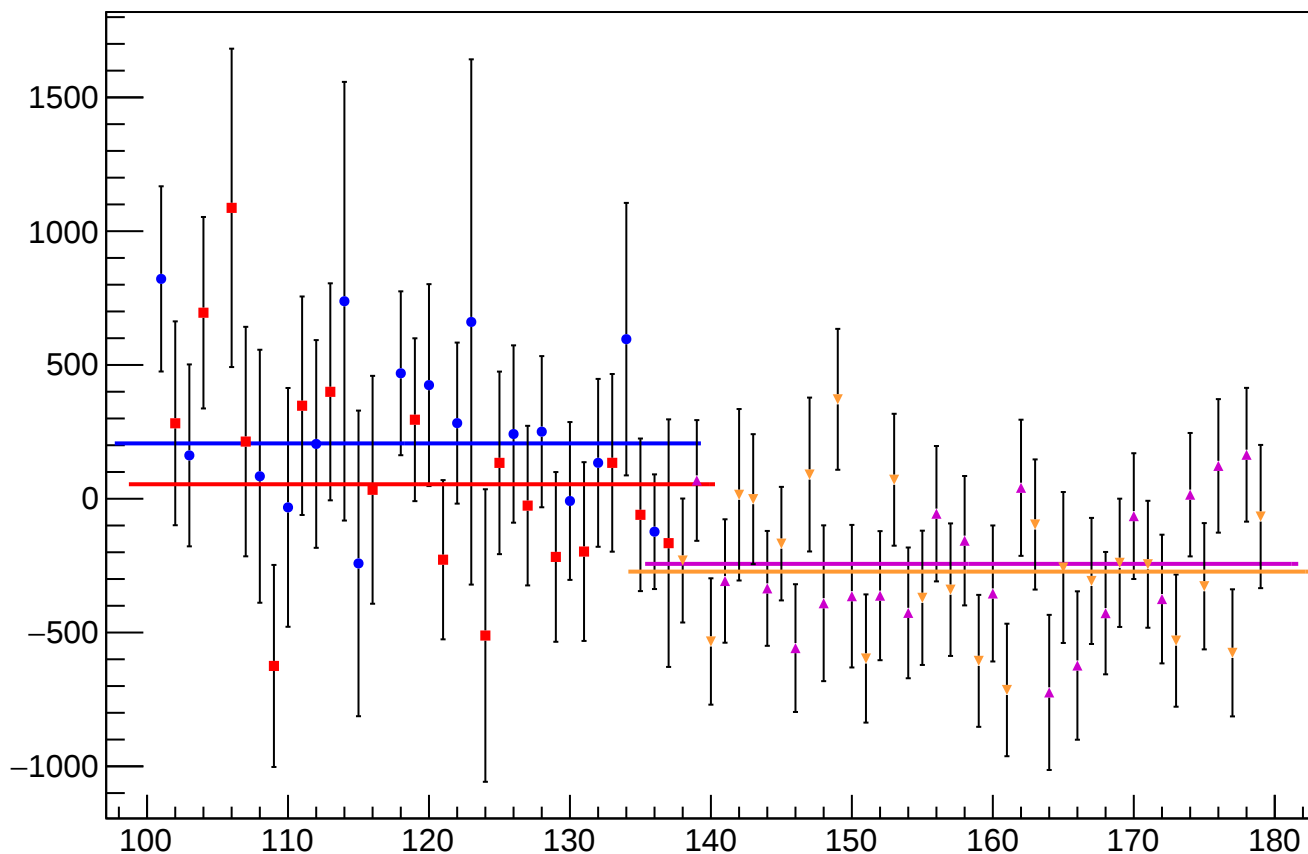
Right: 692.935 $\pm$ 0.136  $\chi^2$ /NDF: 1331611.8/34

In: 670.156 $\pm$ 0.102  $\chi^2$ /NDF:1164377.6/36

Out: 671.575 $\pm$ 0.099  $\chi^2$ /NDF:1013899.6/39

All: 670.887 $\pm$ 0.071  $\chi^2$ /NDF: 2178377.6/76

# dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 206.874 $\pm$ 85.632  $\chi^2$ /NDF: 9.5/16

Left Out: -272.308 $\pm$ 52.742  $\chi^2$ /NDF:24.1/21

Right Out: 54.185 $\pm$ 85.192  $\chi^2$ /NDF: 15.7/17

Left In: -243.370 $\pm$ 54.928  $\chi^2$ /NDF:19.5/19

Left: -258.426 $\pm$ 38.044  $\chi^2$ /NDF: 43.7/41

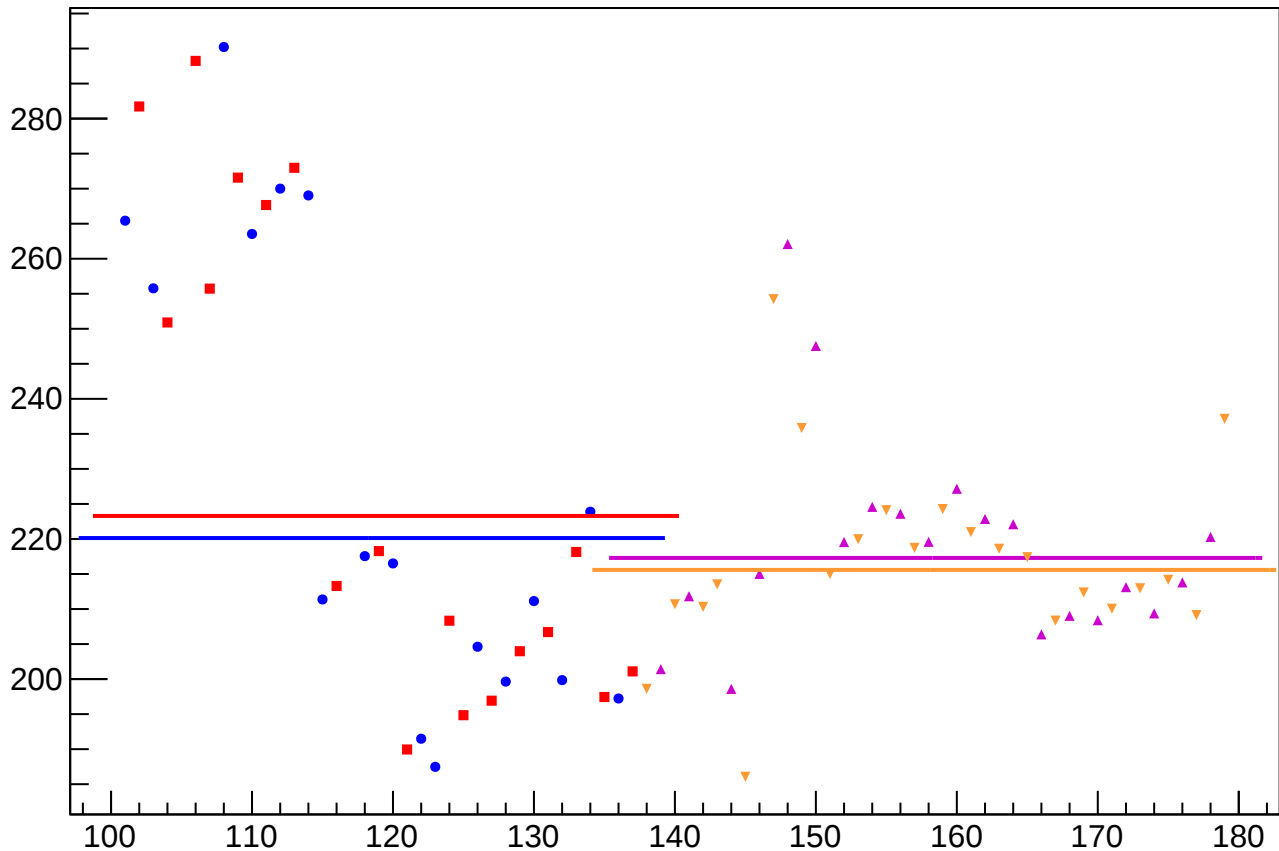
Right: 130.137 $\pm$ 60.395  $\chi^2$ /NDF: 26.8/34

In: -112.121 $\pm$ 46.234  $\chi^2$ /NDF:48.6/36

Out: -181.843 $\pm$ 44.844  $\chi^2$ /NDF:50.4/39

All: -148.045 $\pm$ 32.190  $\chi^2$ /NDF: 100.1/76

dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 220.133 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 228444.0/16

Left Out: 215.583 $\pm$ 0.037  $\chi^2/\text{NDF}$ :124139.6/21

Right Out: 223.287 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 272255.2/17

Left In: 217.294 $\pm$ 0.039  $\chi^2/\text{NDF}$ :119643.9/19

Left: 216.404 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 244792.8/41

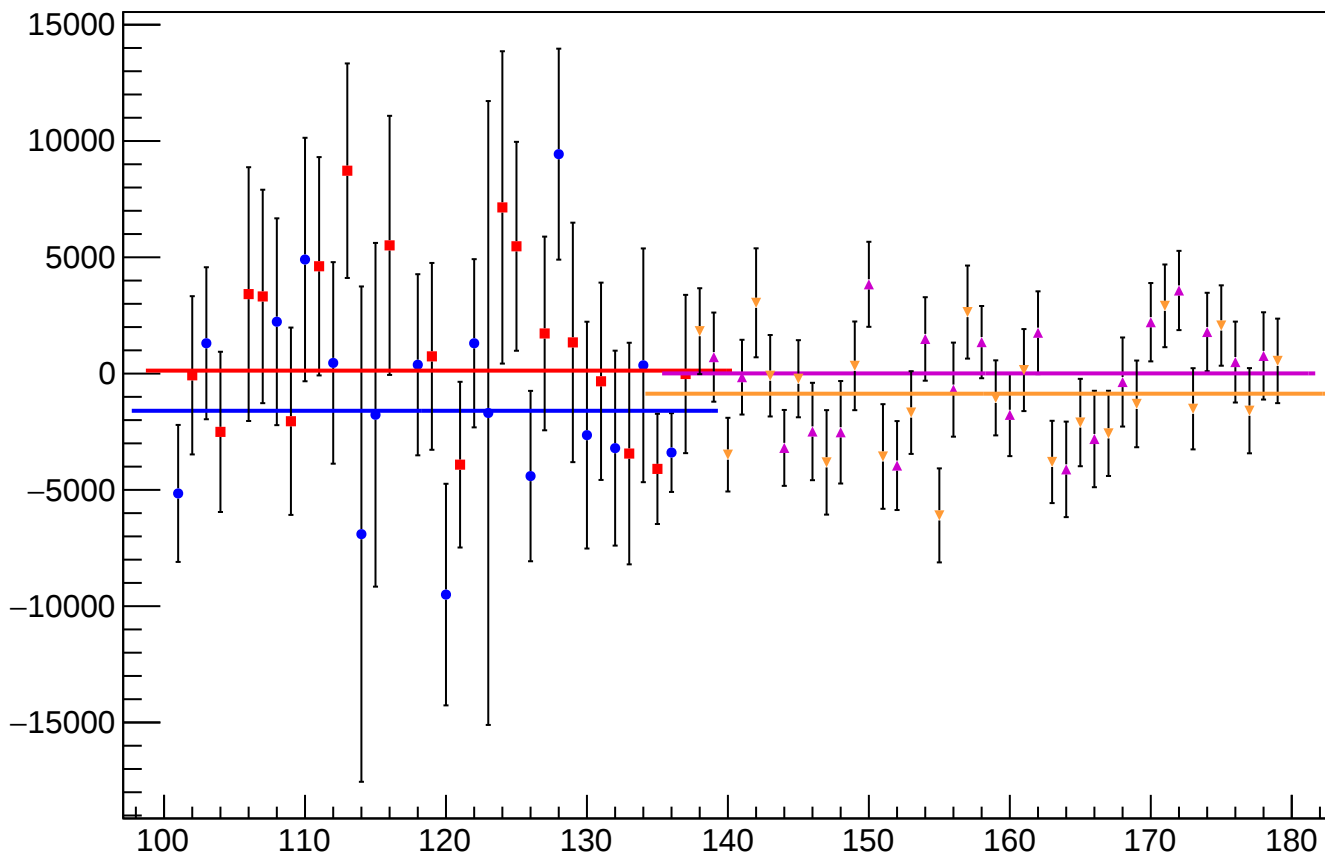
Right: 221.718 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 502063.5/34

In: 218.122 $\pm$ 0.033  $\chi^2/\text{NDF}$ :349644.9/36

Out: 217.718 $\pm$ 0.032  $\chi^2/\text{NDF}$ :408218.4/39

All: 217.914 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 757941.8/76

asym\_sam\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -1599.045 $\pm$ 921.042  $\chi^2$ /NDF: 16.6/16

Left Out: -864.306 $\pm$ 391.624  $\chi^2$ /NDF:34.3/21

Right Out: 127.760 $\pm$ 949.094  $\chi^2$ /NDF: 14.8/17

Left In: 8.233 $\pm$ 406.543  $\chi^2$ /NDF:32.3/19

Left: -444.340 $\pm$ 282.047  $\chi^2$ /NDF: 69.0/41

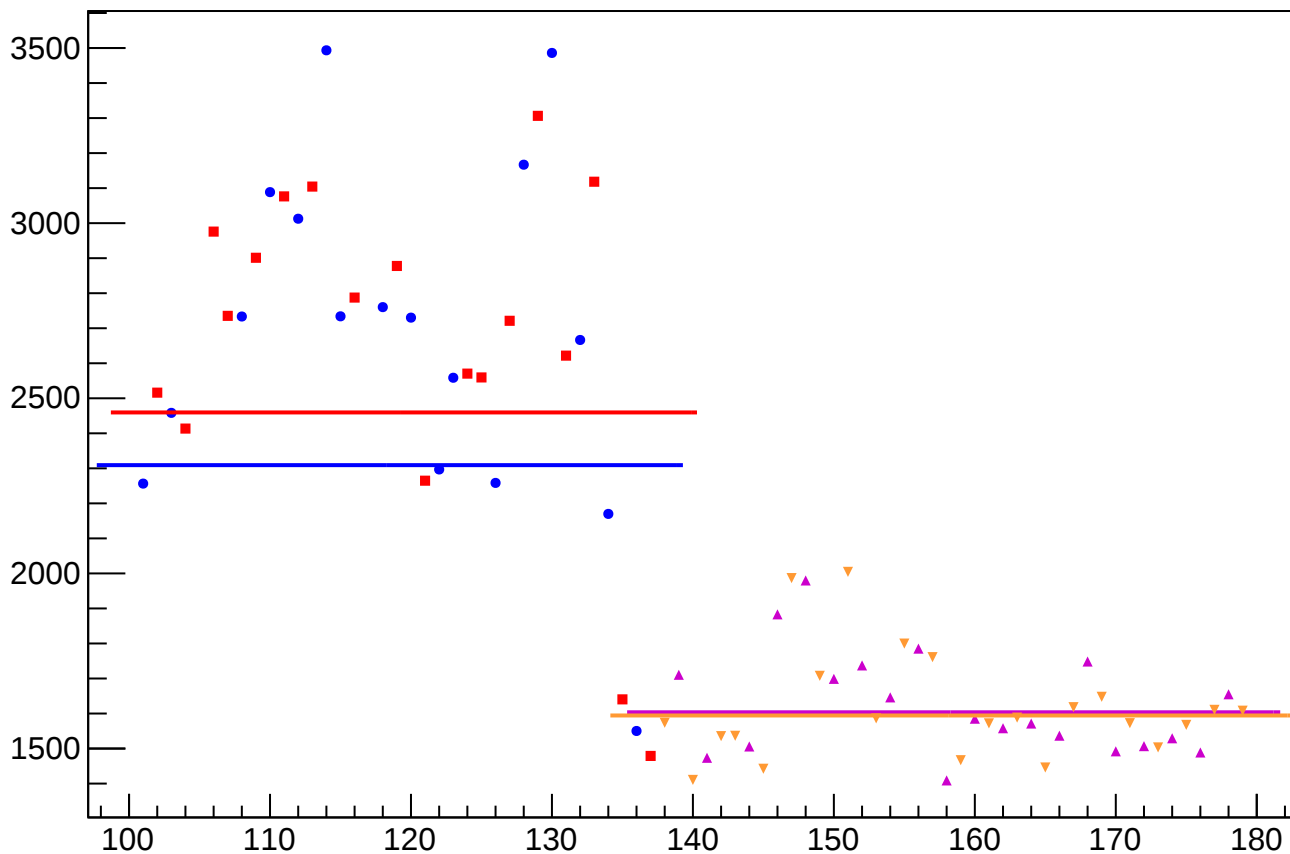
Right: -761.539 $\pm$ 660.970  $\chi^2$ /NDF: 33.2/34

In: -253.851 $\pm$ 371.924  $\chi^2$ /NDF:51.5/36

Out: -719.969 $\pm$ 362.016  $\chi^2$ /NDF:50.0/39

All: -493.201 $\pm$ 259.416  $\chi^2$ /NDF: 102.3/76

asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 2309.132+/-0.651  $\chi^2/\text{NDF}$ : 800728.2/16

Left Out: 1594.435+/-0.277  $\chi^2/\text{NDF}$ : 250350.2/21

Right Out: 2459.603+/-0.671  $\chi^2/\text{NDF}$ : 668179.2/17

Left In: 1603.527+/-0.287  $\chi^2/\text{NDF}$ : 229235.9/19

Left: 1598.811+/-0.199  $\chi^2/\text{NDF}$ : 480104.9/41

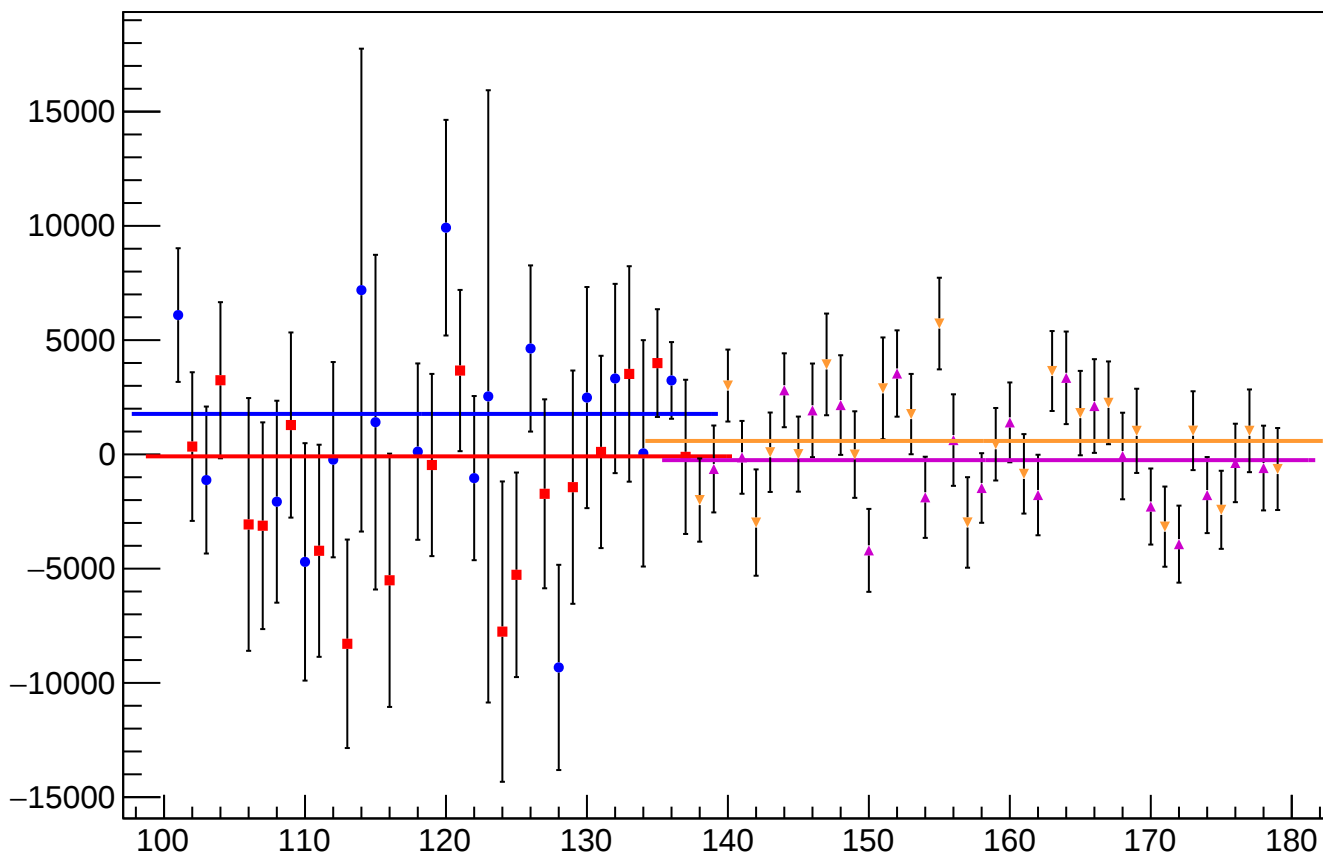
Right: 2382.111+/-0.467  $\chi^2/\text{NDF}$ : 1494797.0/34

In: 1718.583+/-0.263  $\chi^2/\text{NDF}$ : 2012363.1/36

Out: 1720.310+/-0.256  $\chi^2/\text{NDF}$ : 2338662.4/39

All: 1719.470+/-0.183  $\chi^2/\text{NDF}$ : 4351047.6/76

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 1771.279+/-912.328  $\chi^2/\text{NDF}$ : 17.3/16

Left Out: 588.315+/-387.281  $\chi^2/\text{NDF}$ : 34.0/21

Right Out: -86.080+/-939.852  $\chi^2/\text{NDF}$ : 14.5/17

Left In: -251.955+/-401.723  $\chi^2/\text{NDF}$ : 29.7/19

Left: 183.554+/-278.815  $\chi^2/\text{NDF}$ : 66.0/41

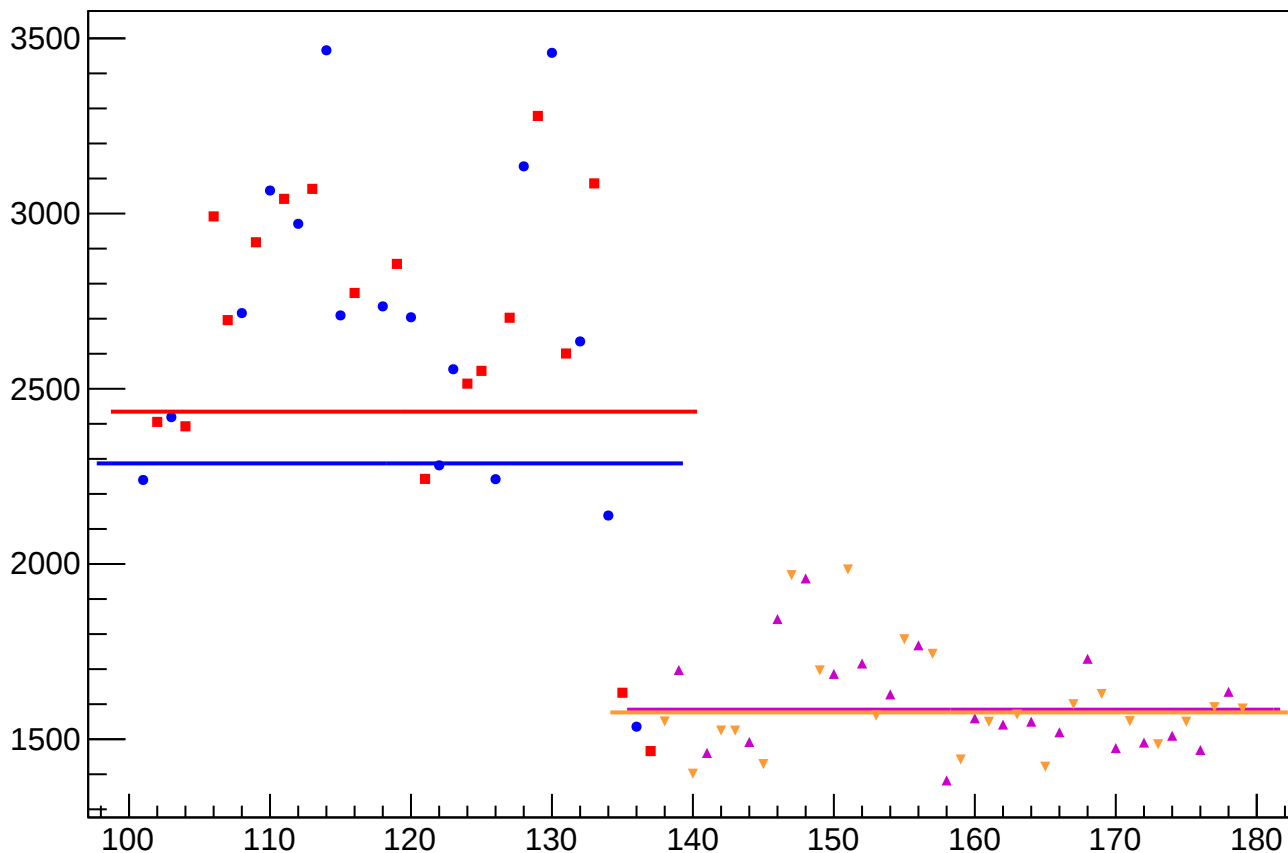
Right: 870.195+/-654.628  $\chi^2/\text{NDF}$ : 33.8/34

In: 76.619+/-367.658  $\chi^2/\text{NDF}$ : 51.1/36

Out: 490.425+/-358.073  $\chi^2/\text{NDF}$ : 48.9/39

All: 288.987+/-256.518  $\chi^2/\text{NDF}$ : 100.7/76

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1576.470+/-0.274  $\chi^2/\text{NDF}$ : 254461.1/21

Right Out: 2434.786+/-0.665  $\chi^2/\text{NDF}$ : 666938.3/17

Left In: 1584.337+/-0.284  $\chi^2/\text{NDF}$ : 230893.4/19

Left: 1580.259+/-0.197  $\chi^2/\text{NDF}$ : 485752.1/41

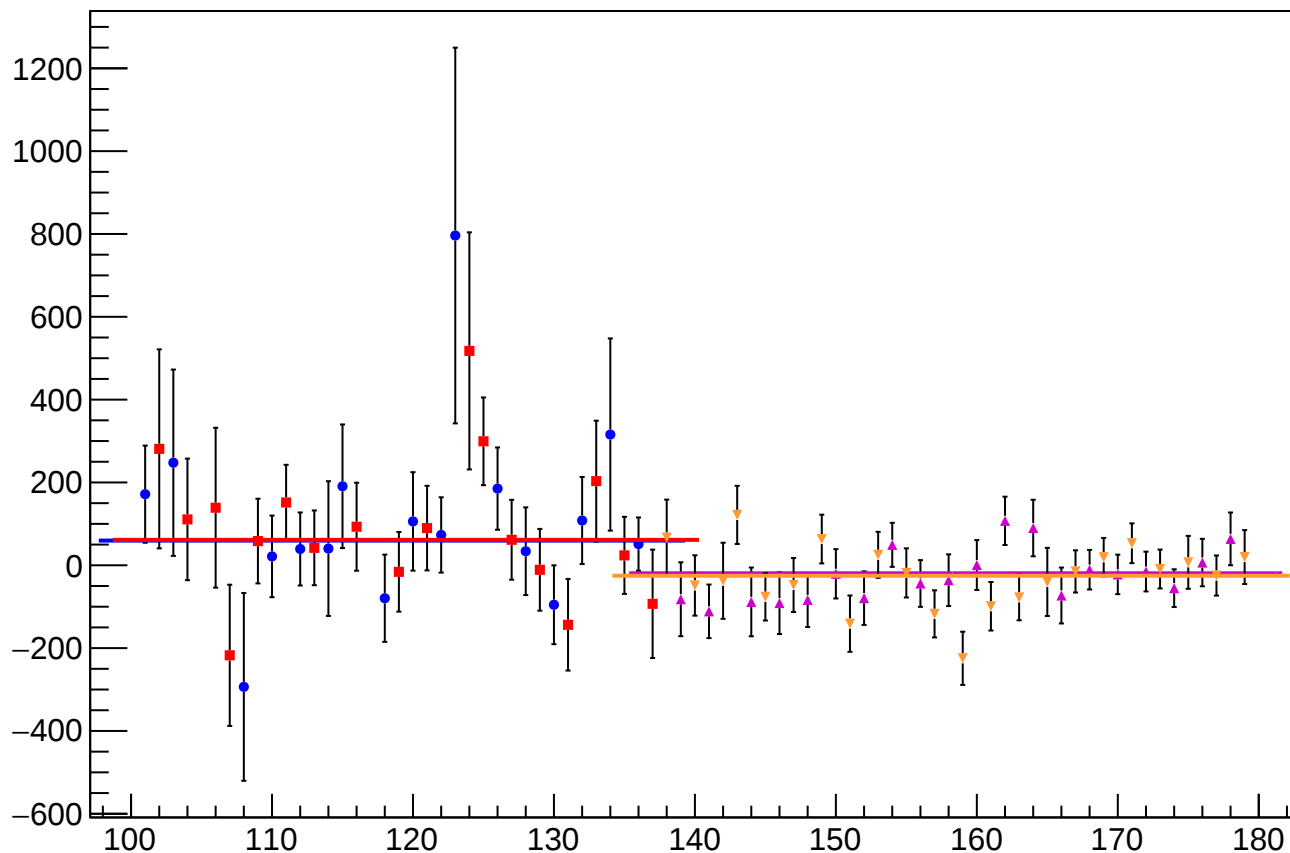
Right: 2358.750+/-0.463  $\chi^2/\text{NDF}$ : 1491762.6/34

In: 1698.467+/-0.260  $\chi^2/\text{NDF}$ : 2024287.3/36

Out: 1701.056+/-0.253  $\chi^2/\text{NDF}$ : 2347317.0/39

All: 1699.795+/-0.181  $\chi^2/\text{NDF}$ : 4371655.2/76

# dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $59.656 \pm 27.080$   $\chi^2/\text{NDF}: 15.3/16$

Left Out:  $-25.214 \pm 12.659$   $\chi^2/\text{NDF}: 31.6/21$

Right Out:  $61.399 \pm 27.011$   $\chi^2/\text{NDF}: 19.7/17$

Left In:  $-19.369 \pm 13.227$   $\chi^2/\text{NDF}: 18.5/19$

Left:  $-22.419 \pm 9.146$   $\chi^2/\text{NDF}: 50.2/41$

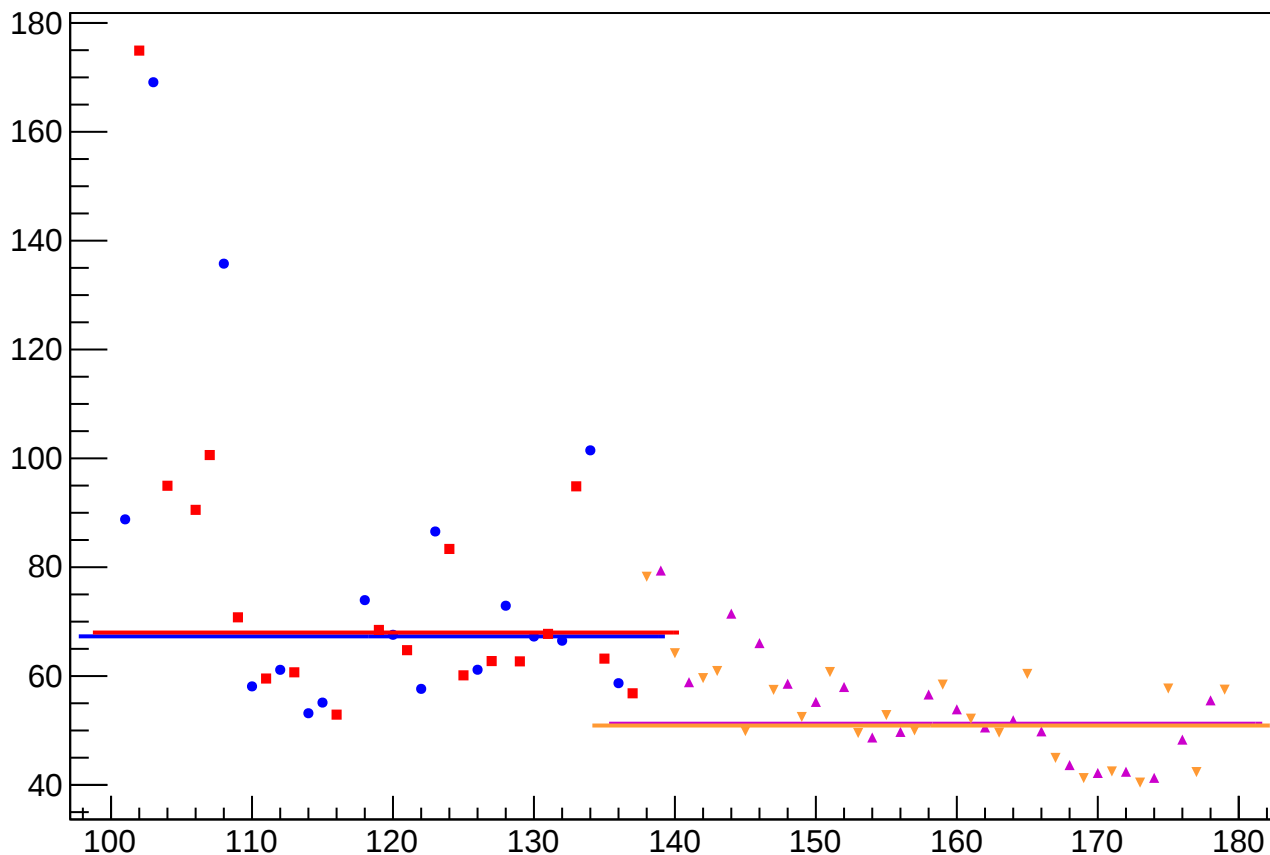
Right:  $60.530 \pm 19.124$   $\chi^2/\text{NDF}: 35.0/34$

In:  $-4.146 \pm 11.885$   $\chi^2/\text{NDF}: 40.7/36$

Out:  $-9.615 \pm 11.463$   $\chi^2/\text{NDF}: 59.8/39$

All:  $-6.979 \pm 8.251$   $\chi^2/\text{NDF}: 100.6/76$

dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 67.297 $\pm$ 0.019  $\chi^2$ /NDF: 841352.2/16

Left Out: 50.913 $\pm$ 0.009  $\chi^2$ /NDF: 806730.5/21

Right Out: 67.998 $\pm$ 0.019  $\chi^2$ /NDF: 754329.7/17

Left In: 51.246 $\pm$ 0.009  $\chi^2$ /NDF: 805438.0/19

Left: 51.072 $\pm$ 0.006  $\chi^2$ /NDF: 1612832.7/41

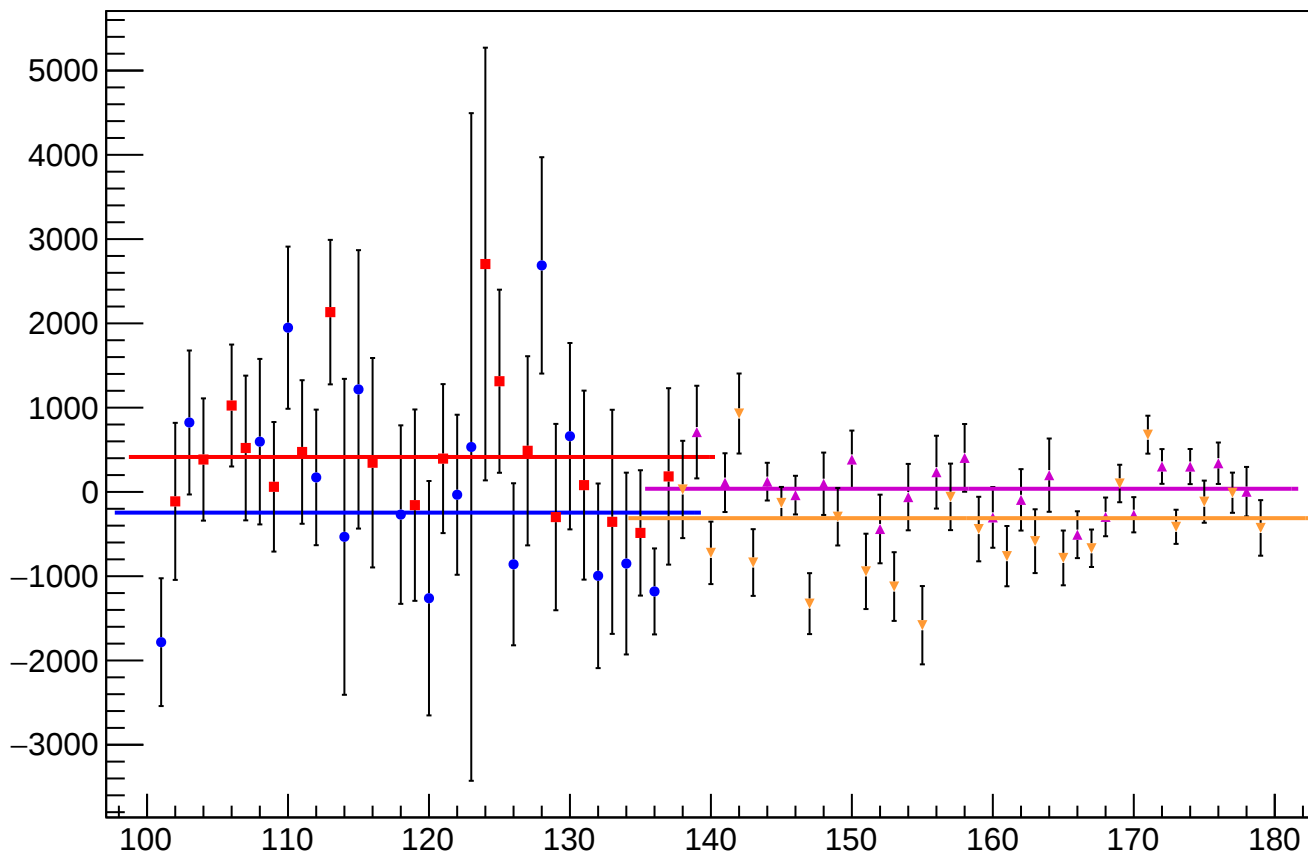
Right: 67.648 $\pm$ 0.014  $\chi^2$ /NDF: 1596354.2/34

In: 54.338 $\pm$ 0.008  $\chi^2$ /NDF: 2214071.3/36

Out: 53.990 $\pm$ 0.008  $\chi^2$ /NDF: 2217166.1/39

All: 54.158 $\pm$ 0.006  $\chi^2$ /NDF: 4432127.1/76

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-245.631 \pm 235.404$   $\chi^2/\text{NDF}$ : 23.8/16

Left Out:  $-311.238 \pm 63.809$   $\chi^2/\text{NDF}$ : 65.1/21

Right Out:  $414.725 \pm 222.788$   $\chi^2/\text{NDF}$ : 9.4/17

Left In:  $37.510 \pm 64.502$   $\chi^2/\text{NDF}$ : 19.4/19

Left:  $-138.747 \pm 45.363$   $\chi^2/\text{NDF}$ : 99.3/41

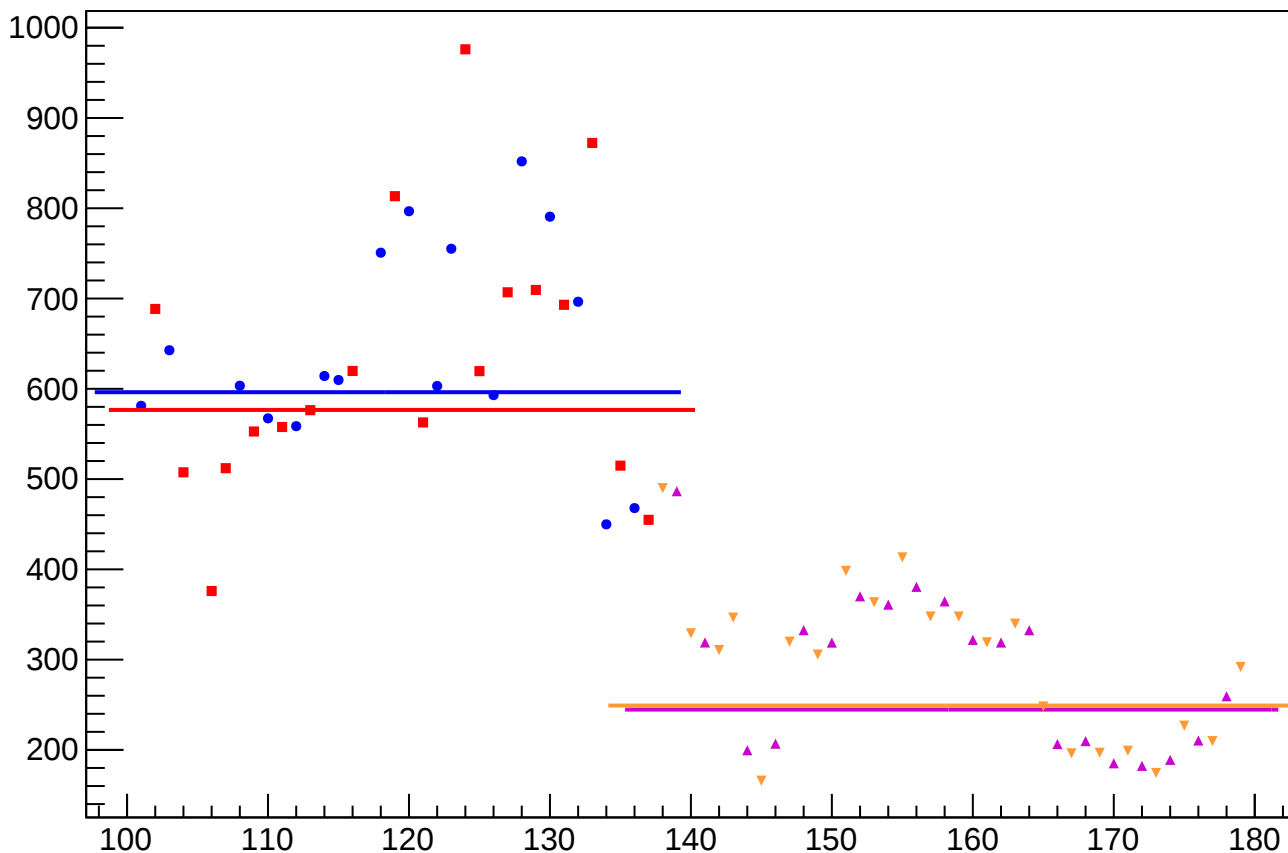
Right:  $102.716 \pm 161.811$   $\chi^2/\text{NDF}$ : 37.3/34

In:  $17.737 \pm 62.209$   $\chi^2/\text{NDF}$ : 44.5/36

Out:  $-256.201 \pm 61.342$   $\chi^2/\text{NDF}$ : 84.3/39

All:  $-121.153 \pm 43.679$   $\chi^2/\text{NDF}$ : 138.6/76

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 596.246+/-0.166  $\chi^2/\text{NDF}$ : 422153.3/16

Left Out: 249.137+/-0.045  $\chi^2/\text{NDF}$ : 2889888.3/21

Right Out: 576.614+/-0.158  $\chi^2/\text{NDF}$ : 573658.2/17

Left In: 244.658+/-0.046  $\chi^2/\text{NDF}$ : 2432542.9/19

Left: 246.921+/-0.032  $\chi^2/\text{NDF}$ : 5327304.8/41

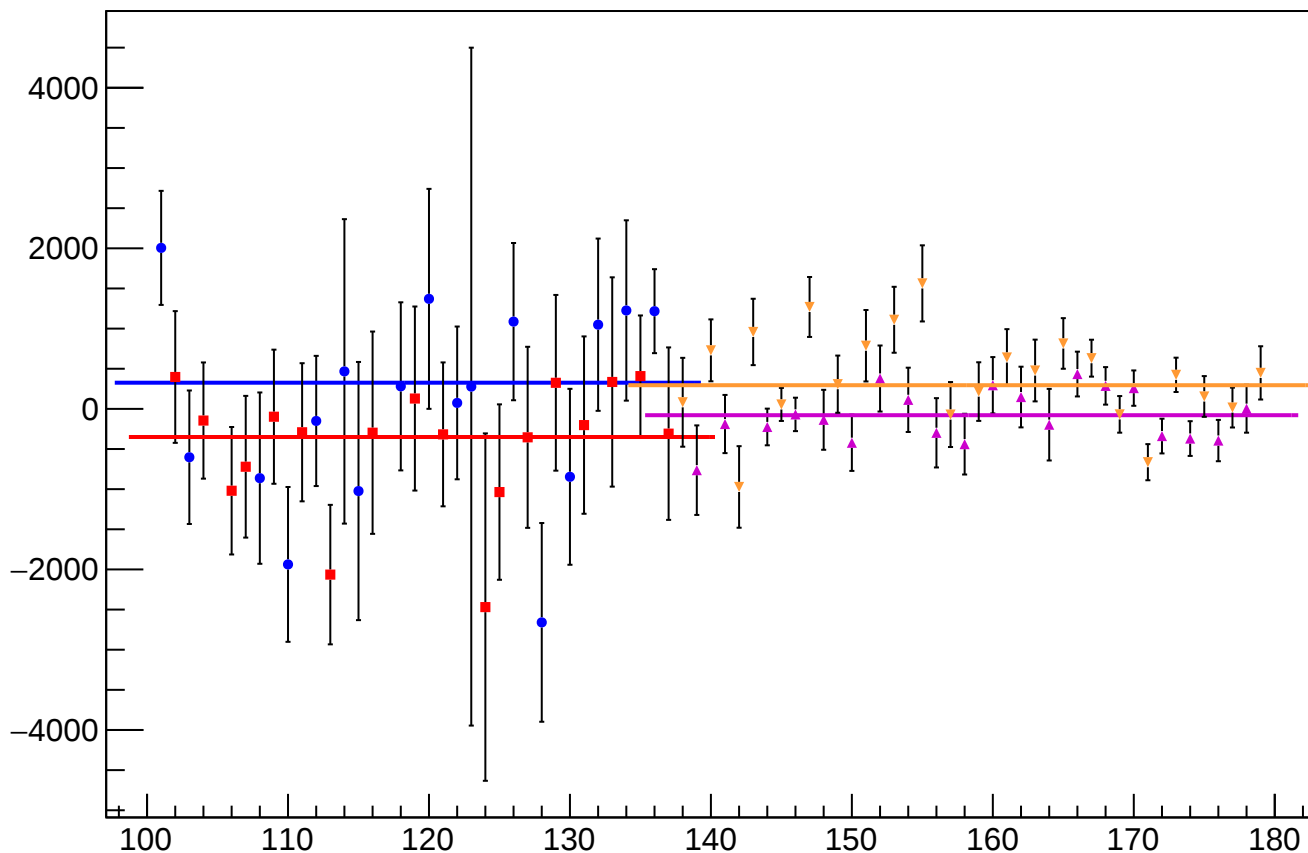
Right: 585.890+/-0.114  $\chi^2/\text{NDF}$ : 1003148.8/34

In: 269.211+/-0.044  $\chi^2/\text{NDF}$ : 7004521.1/36

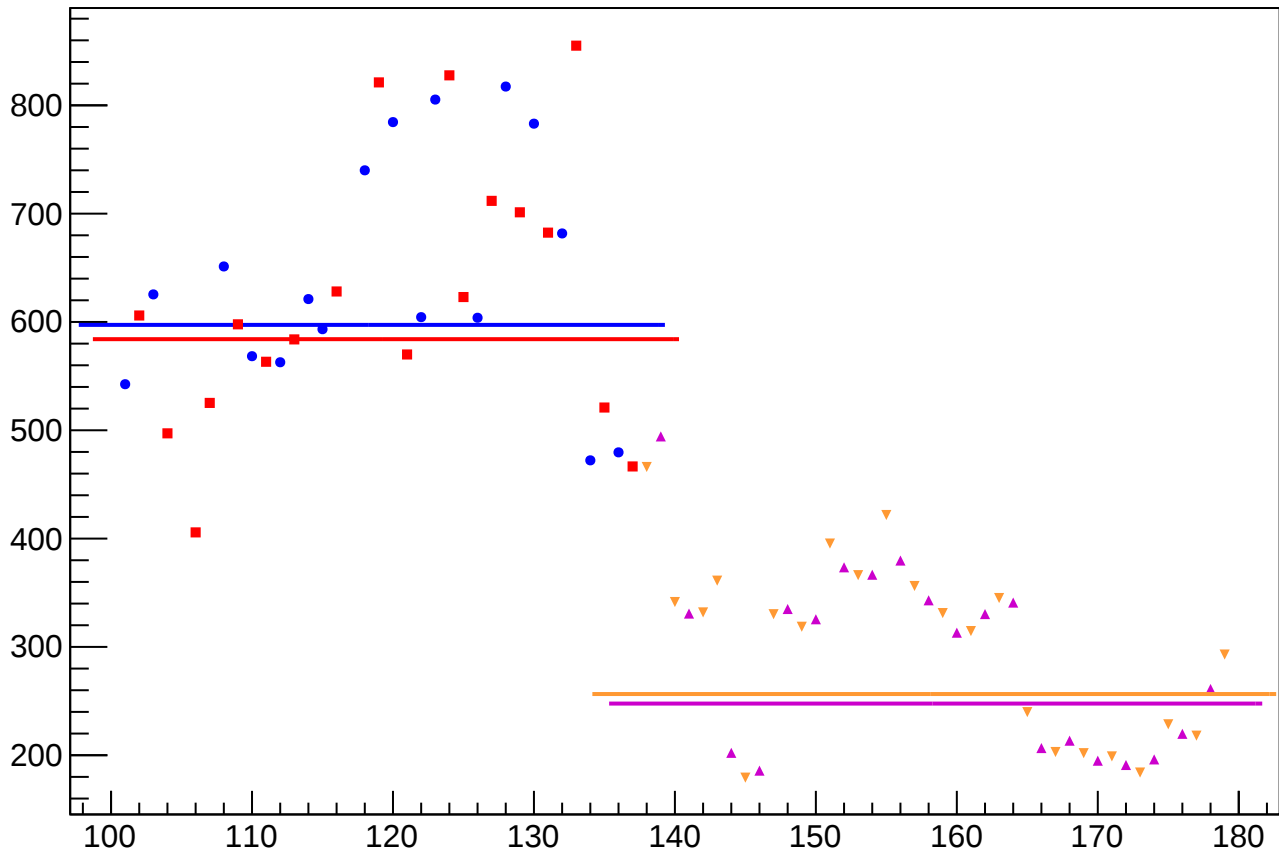
Out: 273.963+/-0.043  $\chi^2/\text{NDF}$ : 7457189.7/39

All: 271.621+/-0.031  $\chi^2/\text{NDF}$ : 14467628.8/76

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 256.497 $\pm$ 0.046  $\chi^2$ /NDF: 2608940.4/21

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

Left In: 247.685 $\pm$ 0.046  $\chi^2$ /NDF: 2370324.8/19

Left: 252.082 $\pm$ 0.033  $\chi^2$ /NDF: 4997385.3/41

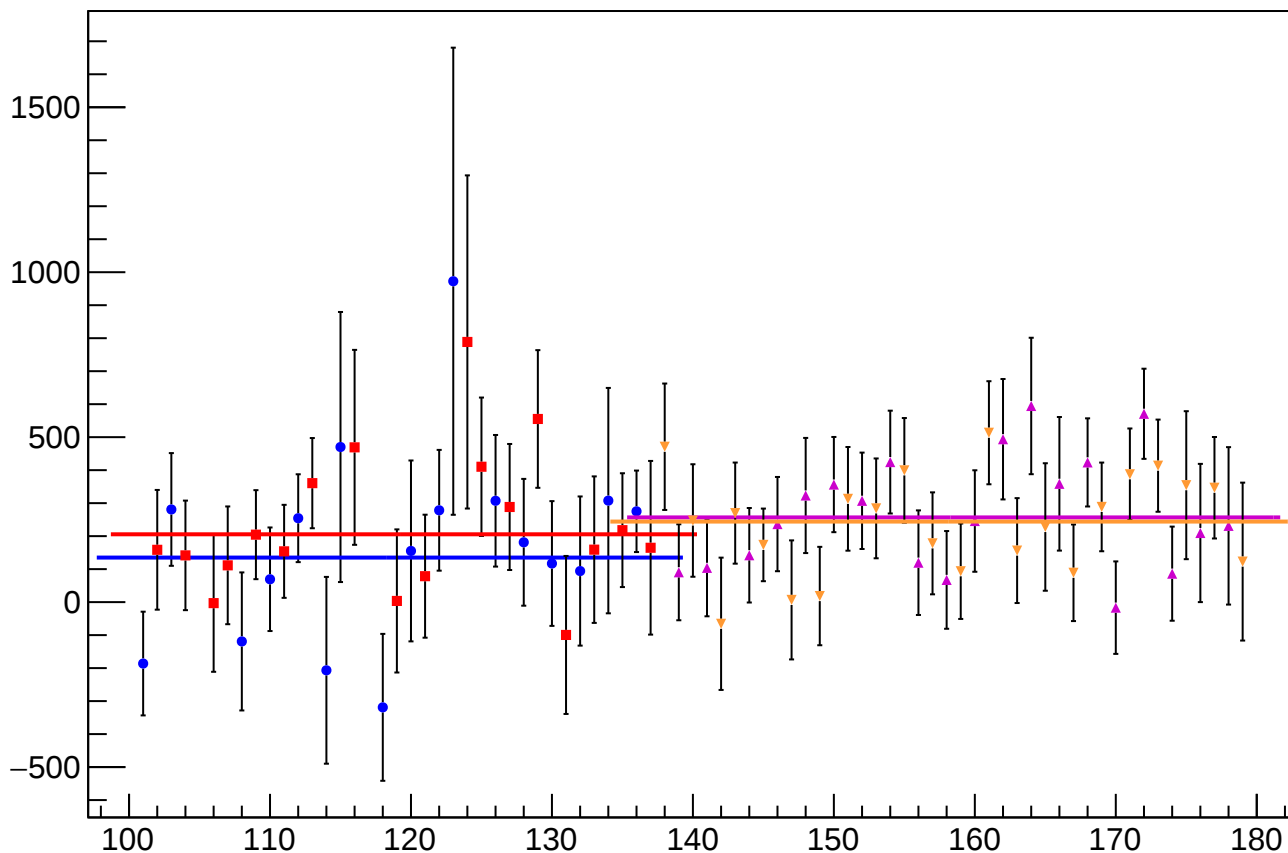
Right: 590.409 $\pm$ 0.115  $\chi^2$ /NDF: 813814.1/34

In: 272.692 $\pm$ 0.045  $\chi^2$ /NDF: 6823062.8/36

Out: 282.060 $\pm$ 0.044  $\chi^2$ /NDF: 6956402.2/39

All: 277.383 $\pm$ 0.031  $\chi^2$ /NDF: 13801601.7/76

# dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 135.029 $\pm$ 47.025  $\chi^2$ /NDF: 18.1/16

Left Out: 244.165 $\pm$ 33.463  $\chi^2$ /NDF:18.7/21

Right Out: 205.590 $\pm$ 44.536  $\chi^2$ /NDF: 12.0/17

Left In: 256.750 $\pm$ 35.013  $\chi^2$ /NDF:24.1/19

Left: 250.173 $\pm$ 24.191  $\chi^2$ /NDF: 42.9/41

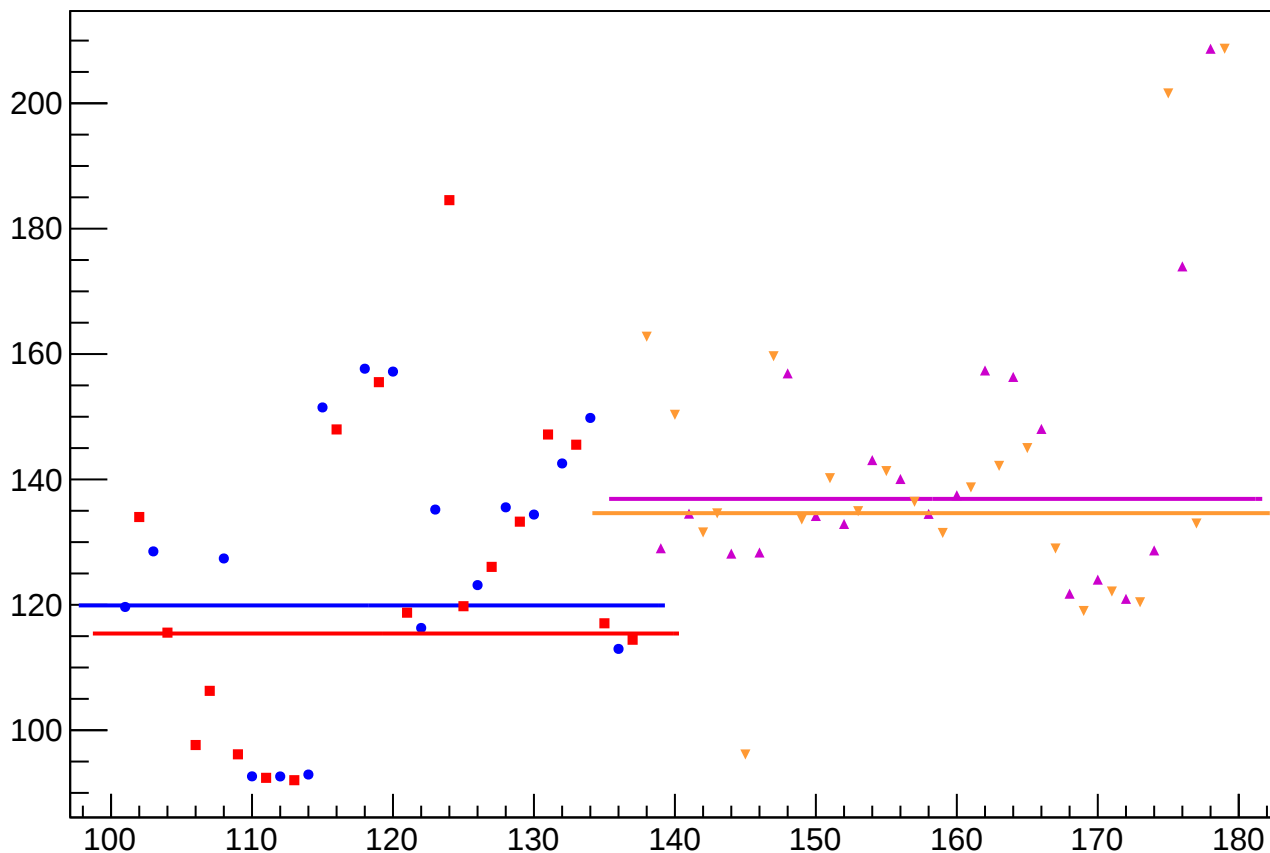
Right: 172.226 $\pm$ 32.336  $\chi^2$ /NDF: 31.3/34

In: 213.338 $\pm$ 28.083  $\chi^2$ /NDF:46.5/36

Out: 230.245 $\pm$ 26.753  $\chi^2$ /NDF:31.2/39

All: 222.202 $\pm$ 19.370  $\chi^2$ /NDF: 77.9/76

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 134.622 $\pm$ 0.024  $\chi^2$ /NDF: 799656.9/21

Right Out: 115.422 $\pm$ 0.031  $\chi^2$ /NDF: 418100.5/17

Left In: 136.896 $\pm$ 0.025  $\chi^2$ /NDF: 423165.9/19

Left: 135.707 $\pm$ 0.017  $\chi^2$ /NDF: 1227233.4/41

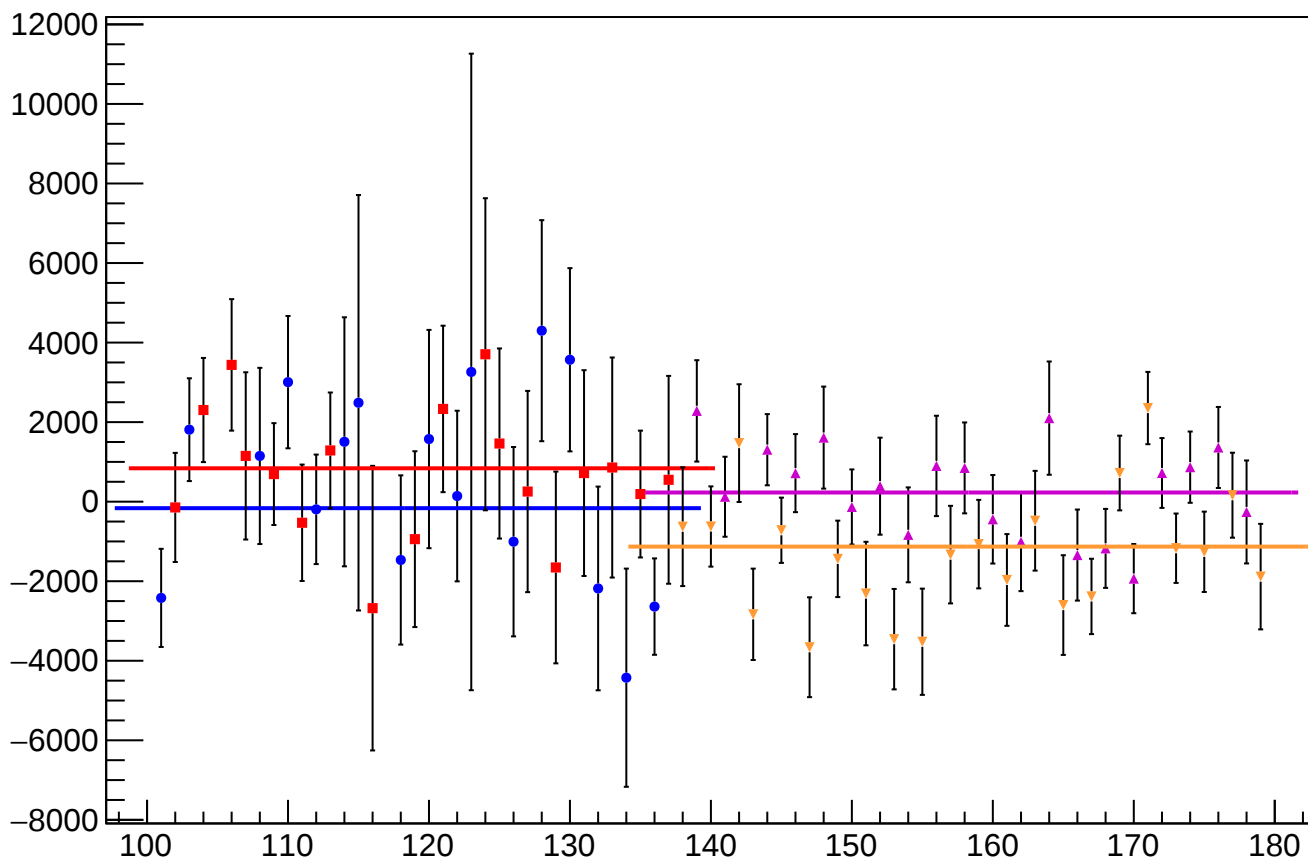
Right: 117.541 $\pm$ 0.023  $\chi^2$ /NDF: 773185.8/34

In: 130.836 $\pm$ 0.020  $\chi^2$ /NDF: 936691.1/36

Out: 127.694 $\pm$ 0.019  $\chi^2$ /NDF: 1455335.6/39

All: 129.188 $\pm$ 0.014  $\chi^2$ /NDF: 2405150.2/76

asym\_sam\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -163.538 $\pm$ 469.592  $\chi^2$ /NDF: 23.7/16

Left Out: -1129.970 $\pm$ 233.618  $\chi^2$ /NDF:41.8/21

Right Out: 839.187 $\pm$ 440.476  $\chi^2$ /NDF: 9.3/17

Left In: 230.609 $\pm$ 238.736  $\chi^2$ /NDF:22.4/19

Left: -464.422 $\pm$ 166.973  $\chi^2$ /NDF: 80.8/41

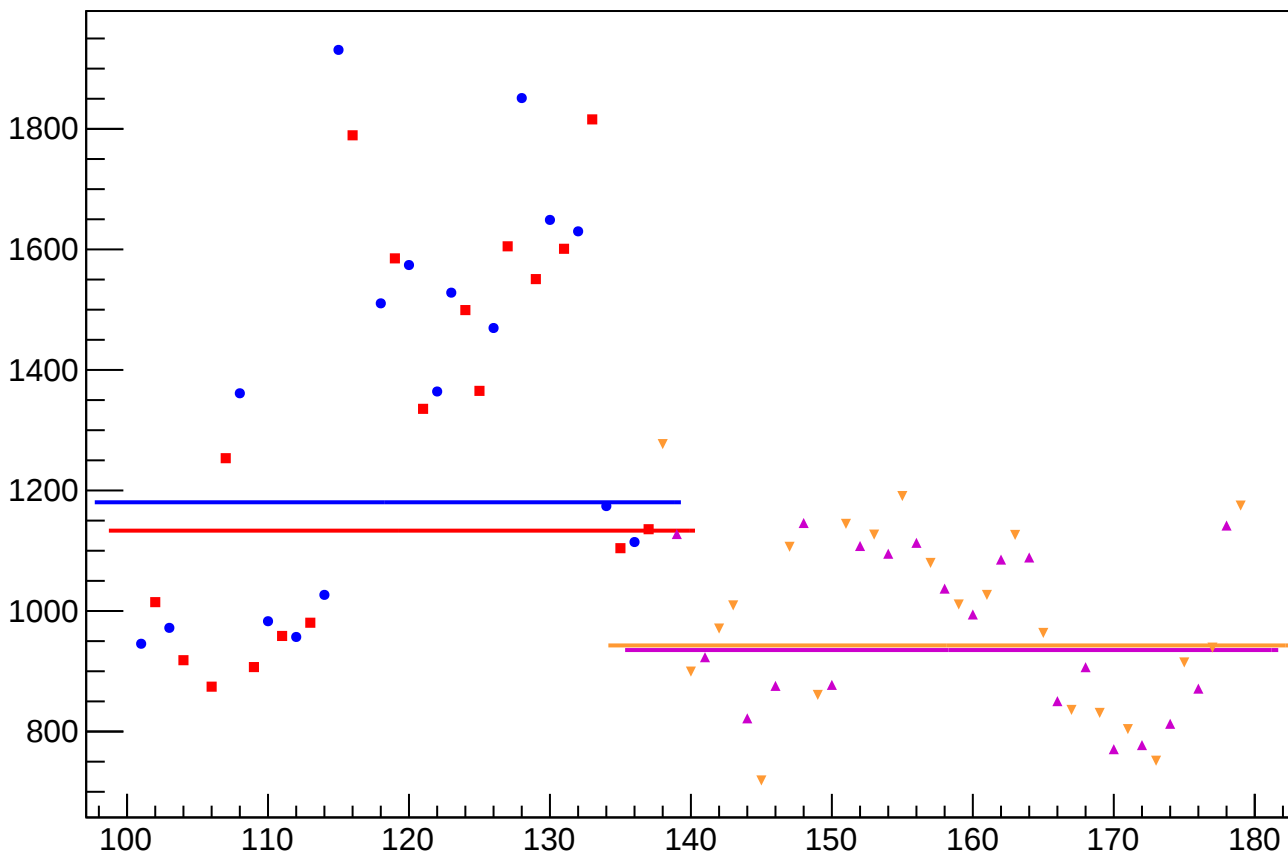
Right: 369.872 $\pm$ 321.264  $\chi^2$ /NDF: 35.4/34

In: 149.660 $\pm$ 212.813  $\chi^2$ /NDF:46.6/36

Out: -697.658 $\pm$ 206.386  $\chi^2$ /NDF:66.7/39

All: -286.986 $\pm$ 148.157  $\chi^2$ /NDF: 121.5/76

asym\_sam\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1180.403+/-0.332  $\chi^2/\text{NDF}$ : 668845.5/16

Left Out: 942.862+/-0.165  $\chi^2/\text{NDF}$ : 814162.5/21

Right Out: 1133.347+/-0.311  $\chi^2/\text{NDF}$ : 760395.8/17

Left In: 935.196+/-0.169  $\chi^2/\text{NDF}$ : 581634.4/19

Left: 939.112+/-0.118  $\chi^2/\text{NDF}$ : 1396850.4/41

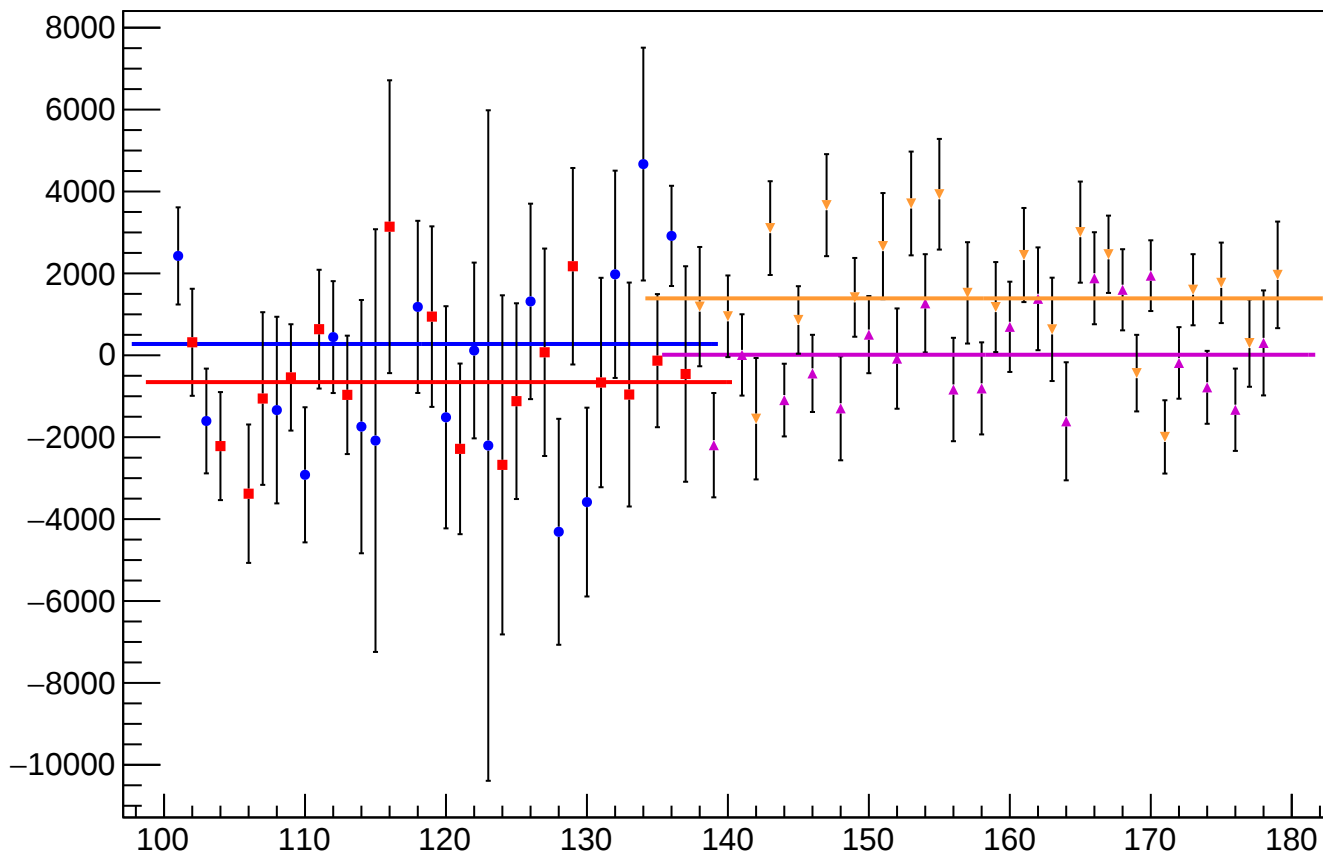
Right: 1155.371+/-0.227  $\chi^2/\text{NDF}$ : 1439924.5/34

In: 985.557+/-0.150  $\chi^2/\text{NDF}$ : 1683804.5/36

Out: 984.682+/-0.146  $\chi^2/\text{NDF}$ : 1866472.4/39

All: 985.106+/-0.105  $\chi^2/\text{NDF}$ : 3550294.2/76

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 276.422 $\pm$ 466.424  $\chi^2$ /NDF: 24.3/16

Left Out: 1390.308 $\pm$ 232.346  $\chi^2$ /NDF:41.8/21

Right Out: -654.406 $\pm$ 439.824  $\chi^2$ /NDF: 9.6/17

Left In: 13.437 $\pm$ 236.936  $\chi^2$ /NDF:24.1/19

Left: 715.338 $\pm$ 165.893  $\chi^2$ /NDF: 83.1/41

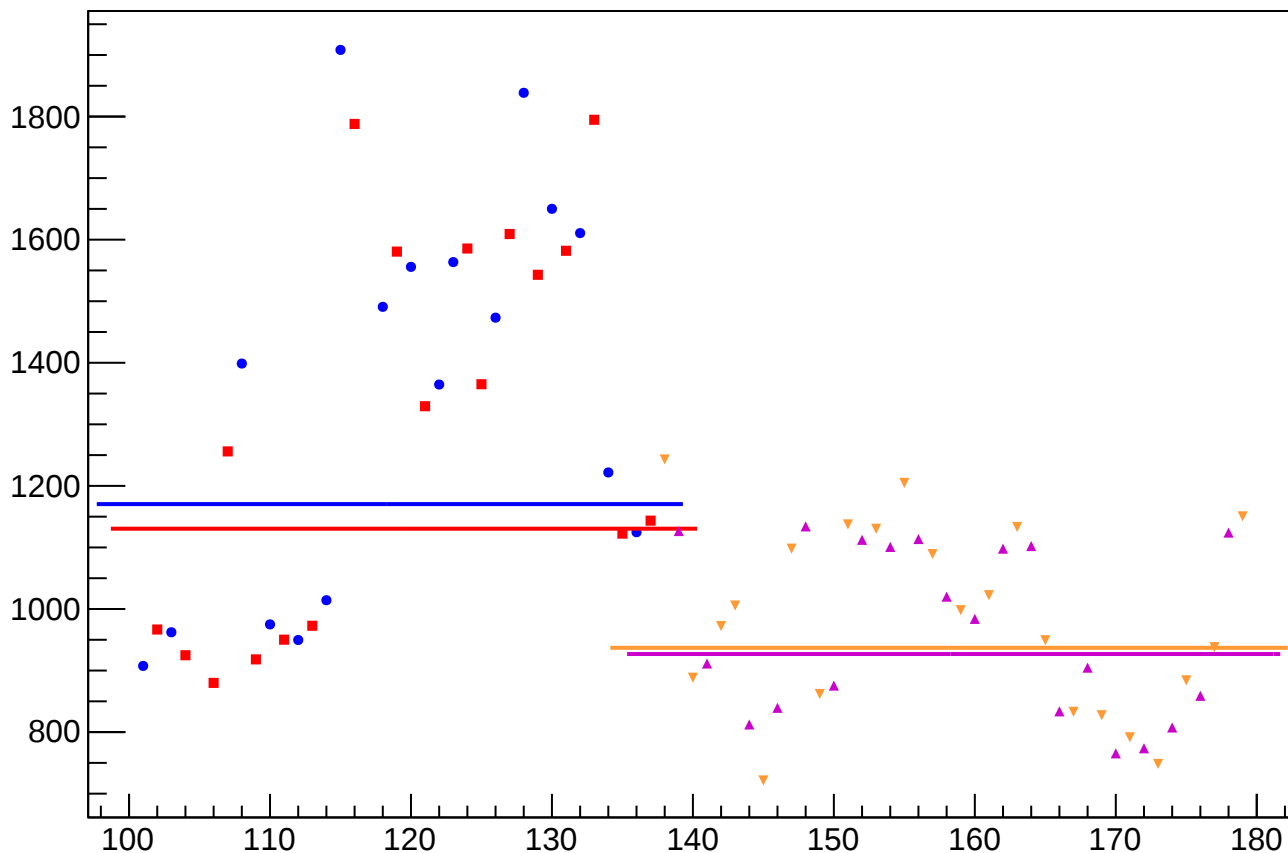
Right: -216.291 $\pm$ 319.993  $\chi^2$ /NDF: 36.0/34

In: 67.380 $\pm$ 211.243  $\chi^2$ /NDF:48.6/36

Out: 944.188 $\pm$ 205.442  $\chi^2$ /NDF:68.3/39

All: 517.989 $\pm$ 147.278  $\chi^2$ /NDF: 125.8/76

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 1170.404 $\pm$ 0.330  $\chi^2/\text{NDF}$ : 705486.8/16

Left Out: 936.989 $\pm$ 0.164  $\chi^2/\text{NDF}$ :811374.1/21

Right Out: 1130.456 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 763027.2/17

Left In: 926.842 $\pm$ 0.168  $\chi^2/\text{NDF}$ :615539.5/19

Left: 932.015 $\pm$ 0.117  $\chi^2/\text{NDF}$ : 1428783.6/41

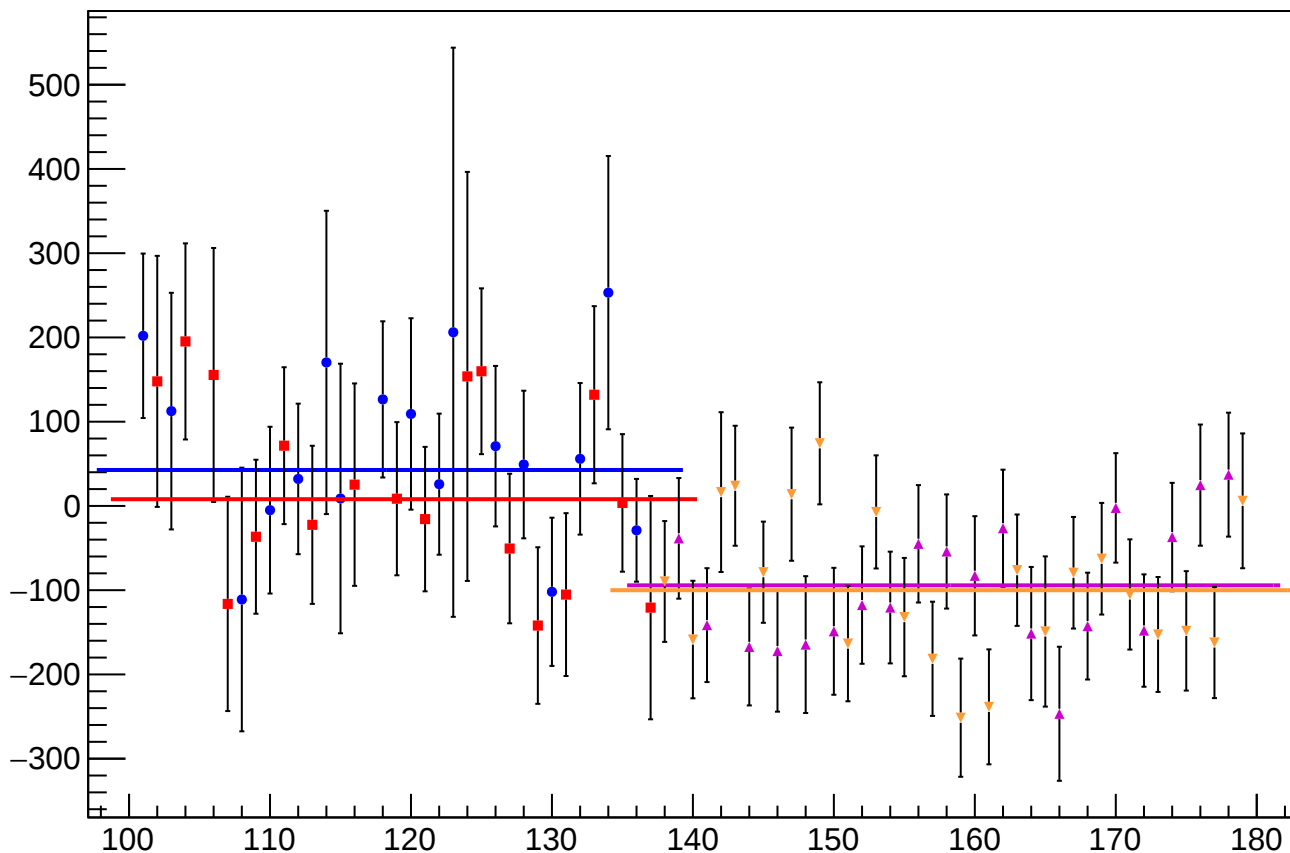
Right: 1149.259 $\pm$ 0.226  $\chi^2/\text{NDF}$ : 1476279.7/34

In: 976.801 $\pm$ 0.149  $\chi^2/\text{NDF}$ :1754528.1/36

Out: 979.200 $\pm$ 0.145  $\chi^2/\text{NDF}$ :1876949.2/39

All: 978.034 $\pm$ 0.104  $\chi^2/\text{NDF}$ : 3631609.9/76

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In:  $42.674 \pm 24.701$   $\chi^2/\text{NDF}: 12.0/16$

Left Out:  $-100.030 \pm 14.986$   $\chi^2/\text{NDF}: 31.0/21$

Right Out:  $7.995 \pm 24.492$   $\chi^2/\text{NDF}: 15.8/17$

Left In:  $-94.264 \pm 15.704$   $\chi^2/\text{NDF}: 20.9/19$

Left:  $-97.282 \pm 10.842$   $\chi^2/\text{NDF}: 52.0/41$

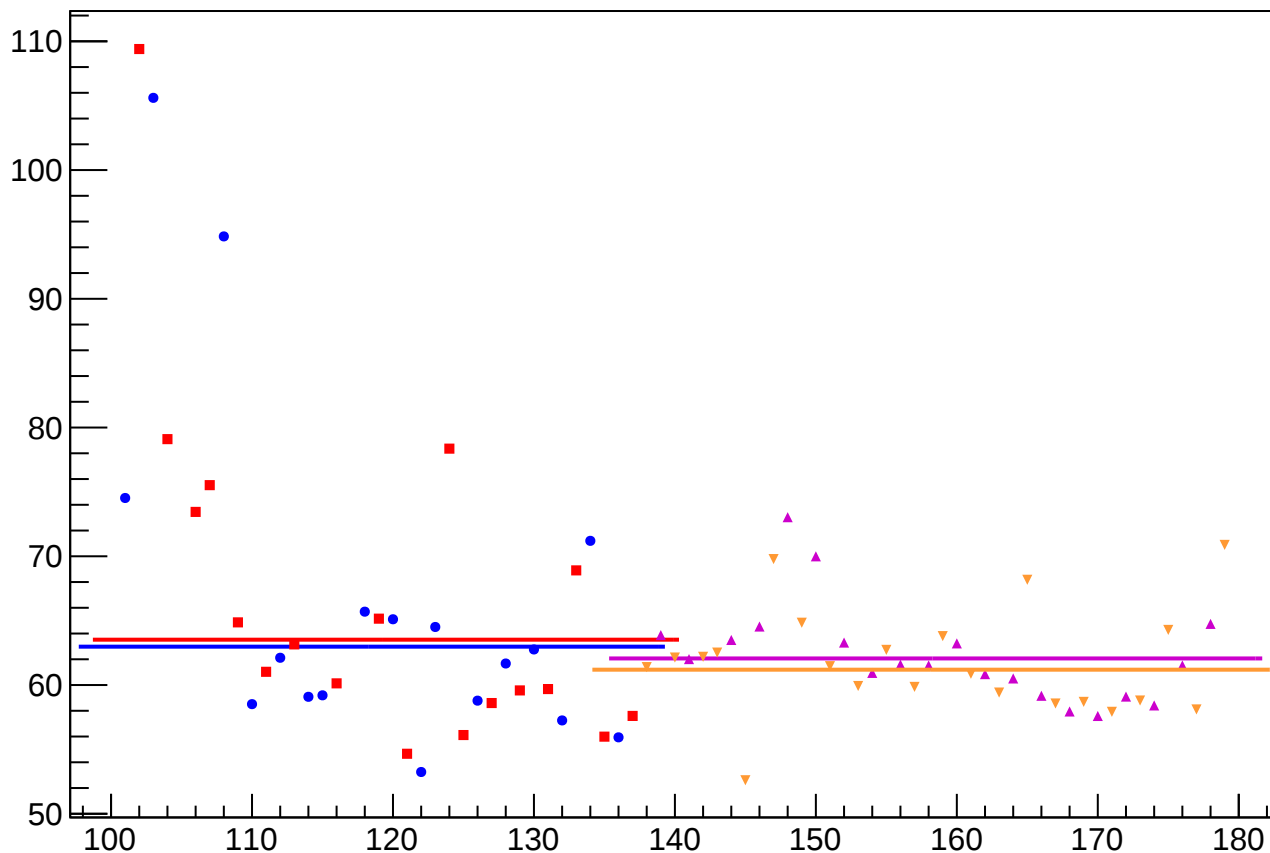
Right:  $25.187 \pm 17.392$   $\chi^2/\text{NDF}: 28.8/34$

In:  $-54.846 \pm 13.253$   $\chi^2/\text{NDF}: 54.8/36$

Out:  $-70.605 \pm 12.783$   $\chi^2/\text{NDF}: 60.9/39$

All:  $-63.009 \pm 9.200$   $\chi^2/\text{NDF}: 116.4/76$

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 62.980+/-0.017  $\chi^2/\text{NDF}$ : 375263.3/16

Left Out: 61.192+/-0.011  $\chi^2/\text{NDF}$ :140891.8/21

Right Out: 63.522+/-0.017  $\chi^2/\text{NDF}$ : 335430.9/17

Left In: 62.065+/-0.011  $\chi^2/\text{NDF}$ :100276.3/19

Left: 61.608+/-0.008  $\chi^2/\text{NDF}$ : 244402.6/41

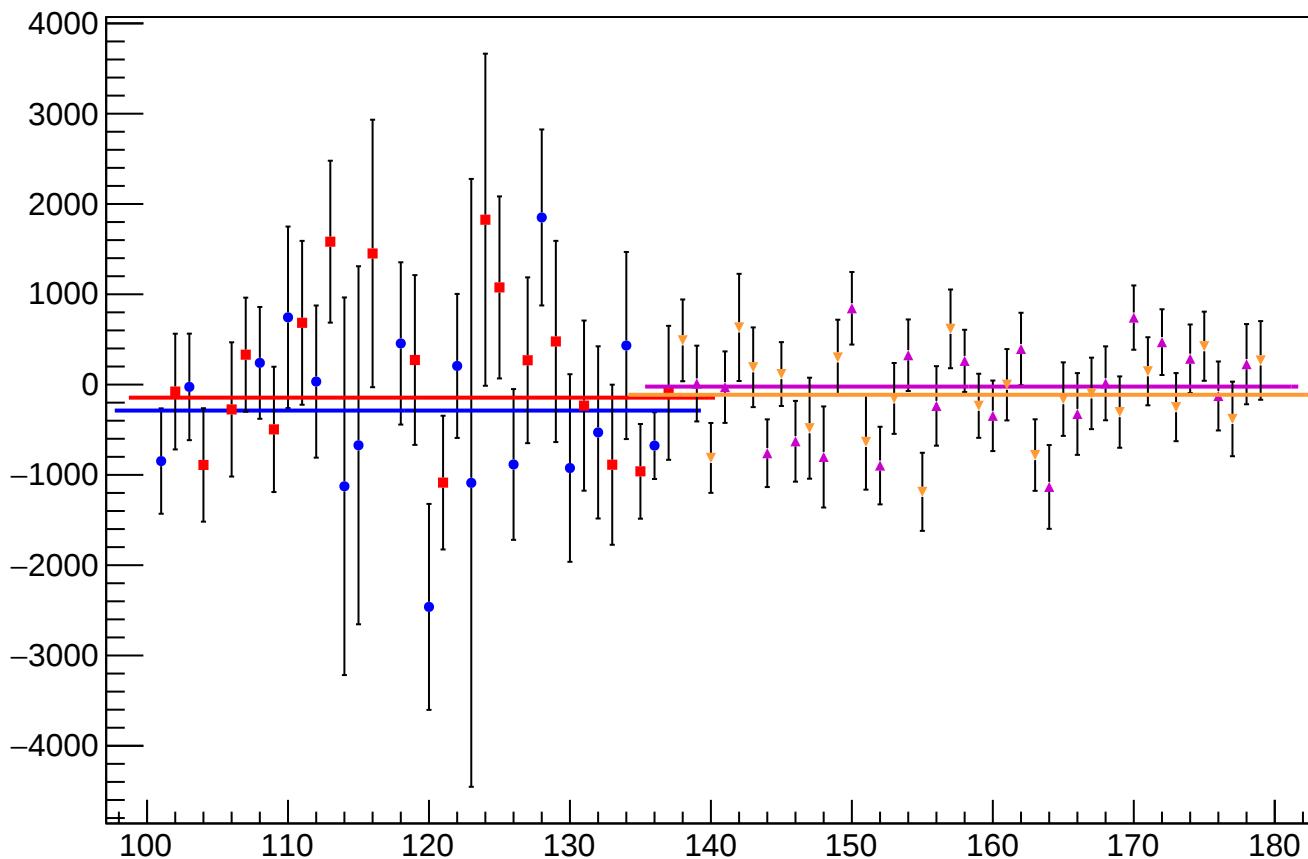
Right: 63.253+/-0.012  $\chi^2/\text{NDF}$ : 711180.0/34

In: 62.328+/-0.009  $\chi^2/\text{NDF}$ :477495.3/36

Out: 61.827+/-0.009  $\chi^2/\text{NDF}$ :489496.1/39

All: 62.068+/-0.007  $\chi^2/\text{NDF}$ : 968475.9/76

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -287.682 $\pm$ 189.888  $\chi^2$ /NDF: 15.4/16

Left Out: -112.944 $\pm$ 88.138  $\chi^2$ /NDF:26.0/21

Right Out: -144.624 $\pm$ 187.777  $\chi^2$ /NDF: 16.1/17

Left In: -22.159 $\pm$ 90.722  $\chi^2$ /NDF:33.6/19

Left: -68.863 $\pm$ 63.217  $\chi^2$ /NDF: 60.0/41

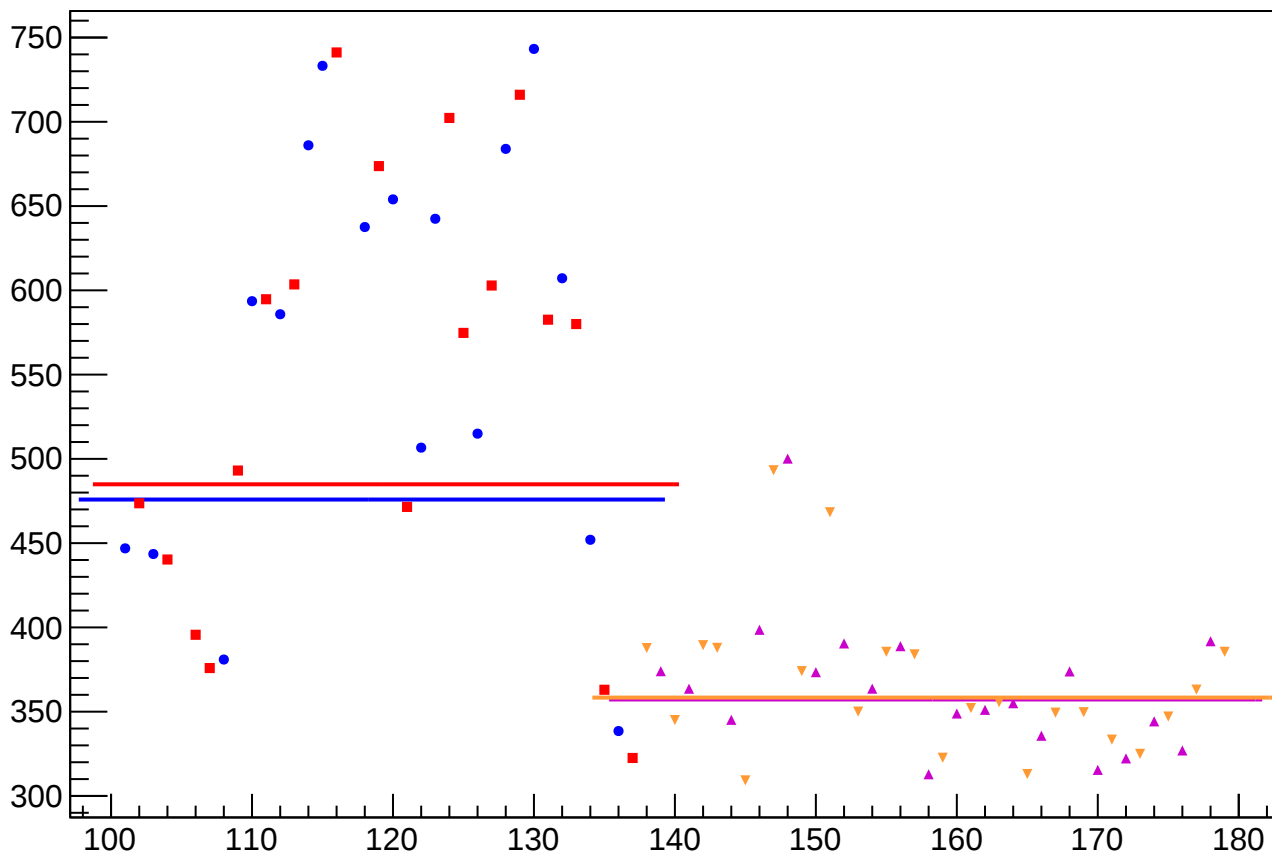
Right: -215.353 $\pm$ 133.518  $\chi^2$ /NDF: 31.7/34

In: -71.504 $\pm$ 81.859  $\chi^2$ /NDF:50.5/36

Out: -118.663 $\pm$ 79.786  $\chi^2$ /NDF:42.0/39

All: -95.689 $\pm$ 57.136  $\chi^2$ /NDF: 92.7/76

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 475.871 $\pm$ 0.134  $\chi^2$ /NDF: 837808.5/16

Left Out: 358.359 $\pm$ 0.062  $\chi^2$ /NDF:367080.1/21

Right Out: 484.914 $\pm$ 0.133  $\chi^2$ /NDF: 716315.8/17

Left In: 357.235 $\pm$ 0.064  $\chi^2$ /NDF:294721.0/19

Left: 357.813 $\pm$ 0.045  $\chi^2$ /NDF: 661958.9/41

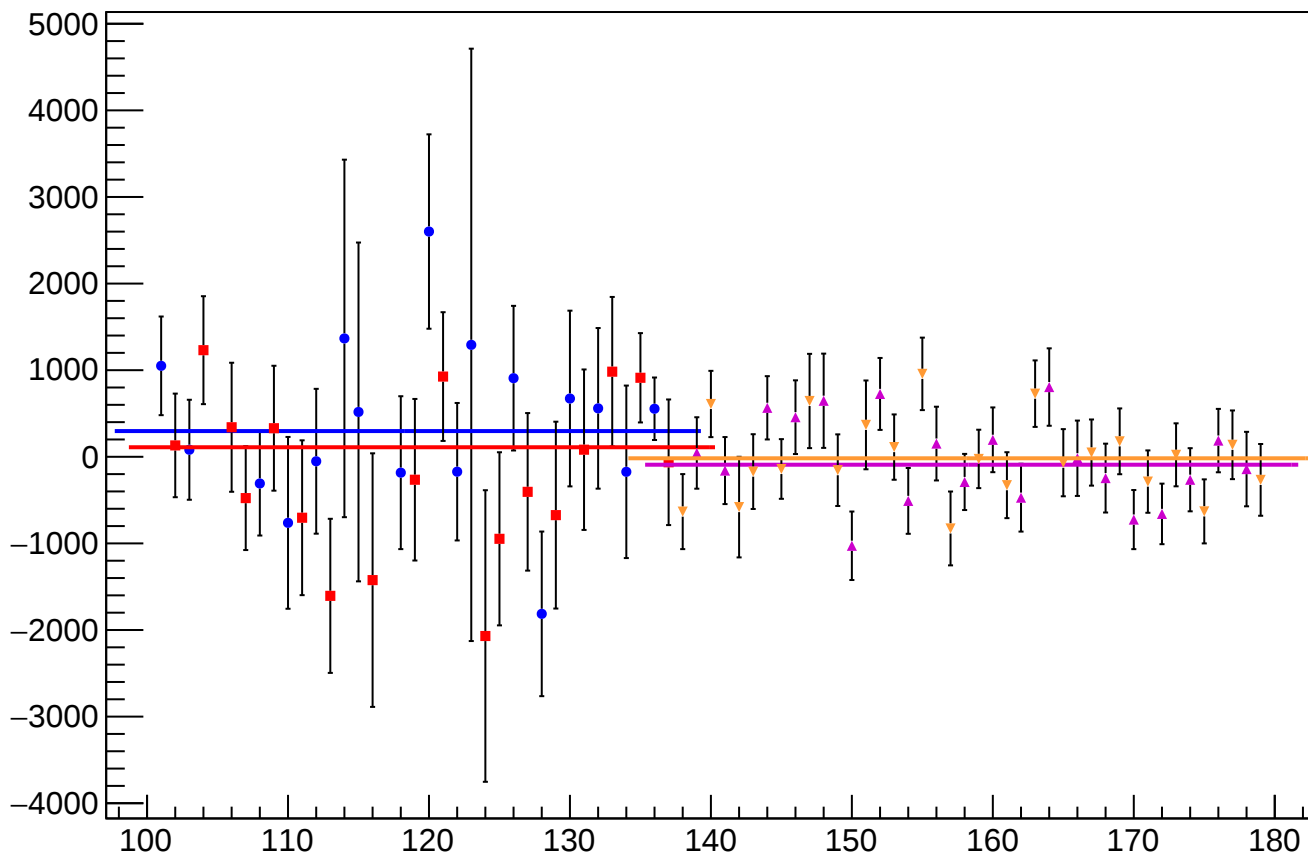
Right: 480.443 $\pm$ 0.094  $\chi^2$ /NDF: 1556417.6/34

In: 379.282 $\pm$ 0.058  $\chi^2$ /NDF:1768118.5/36

Out: 381.207 $\pm$ 0.056  $\chi^2$ /NDF:1827840.8/39

All: 380.269 $\pm$ 0.040  $\chi^2$ /NDF: 3596526.3/76

asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 296.984 $\pm$ 185.975  $\chi^2$ /NDF: 15.9/16

Left Out: -17.327 $\pm$ 85.166  $\chi^2$ /NDF:25.8/21

Right Out: 110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

Left In: -91.561 $\pm$ 87.518  $\chi^2$ /NDF:30.9/19

Left: -53.433 $\pm$ 61.036  $\chi^2$ /NDF: 57.1/41

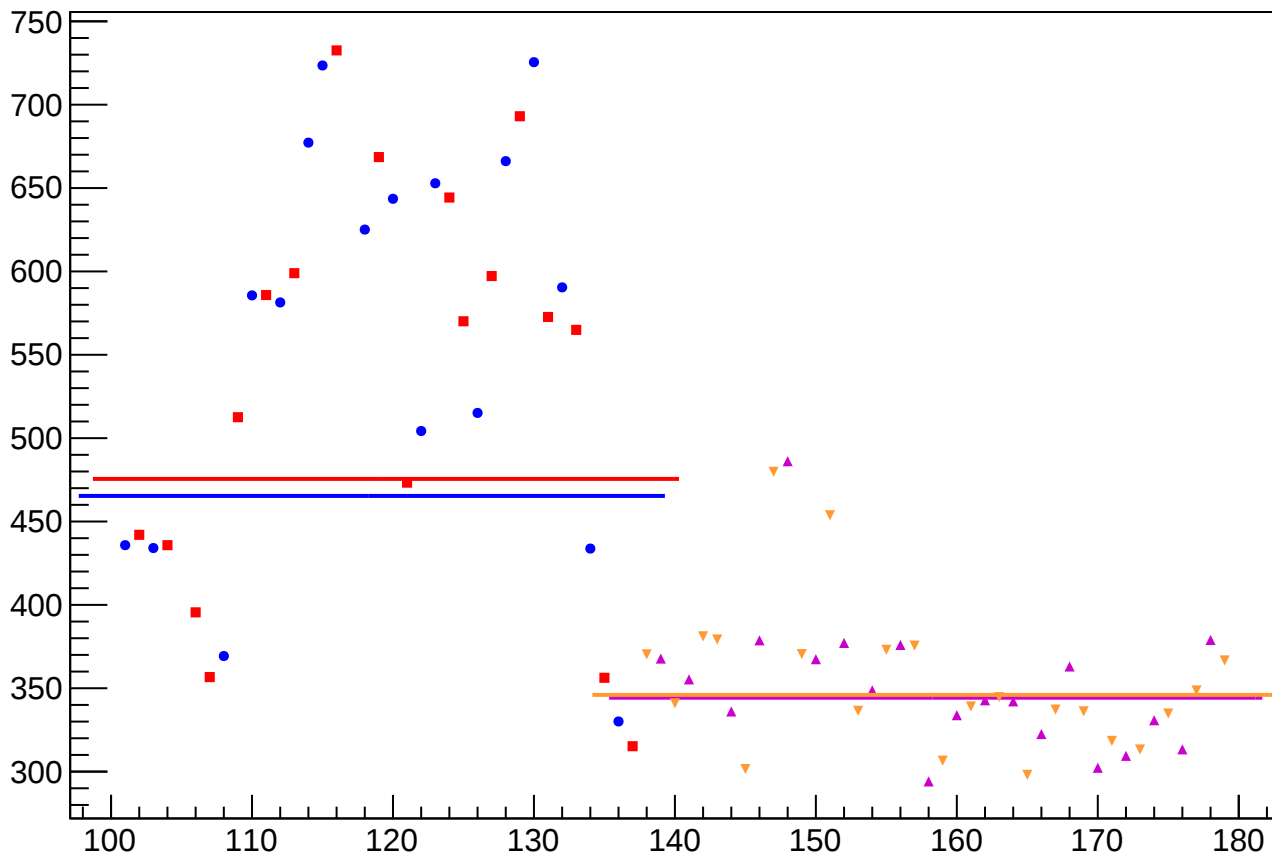
Right: 202.768 $\pm$ 130.944  $\chi^2$ /NDF: 34.9/34

In: -21.117 $\pm$ 79.188  $\chi^2$ /NDF:50.3/36

Out: 5.083 $\pm$ 77.318  $\chi^2$ /NDF:44.7/39

All: -7.704 $\pm$ 55.321  $\chi^2$ /NDF: 95.1/76

# asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 465.356 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 346.026 $\pm$ 0.060  $\chi^2/\text{NDF}$ :390416.2/21

Right Out: 475.559 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 740849.9/17

Left In: 344.322 $\pm$ 0.062  $\chi^2/\text{NDF}$ :328092.9/19

Left: 345.197 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 718898.7/41

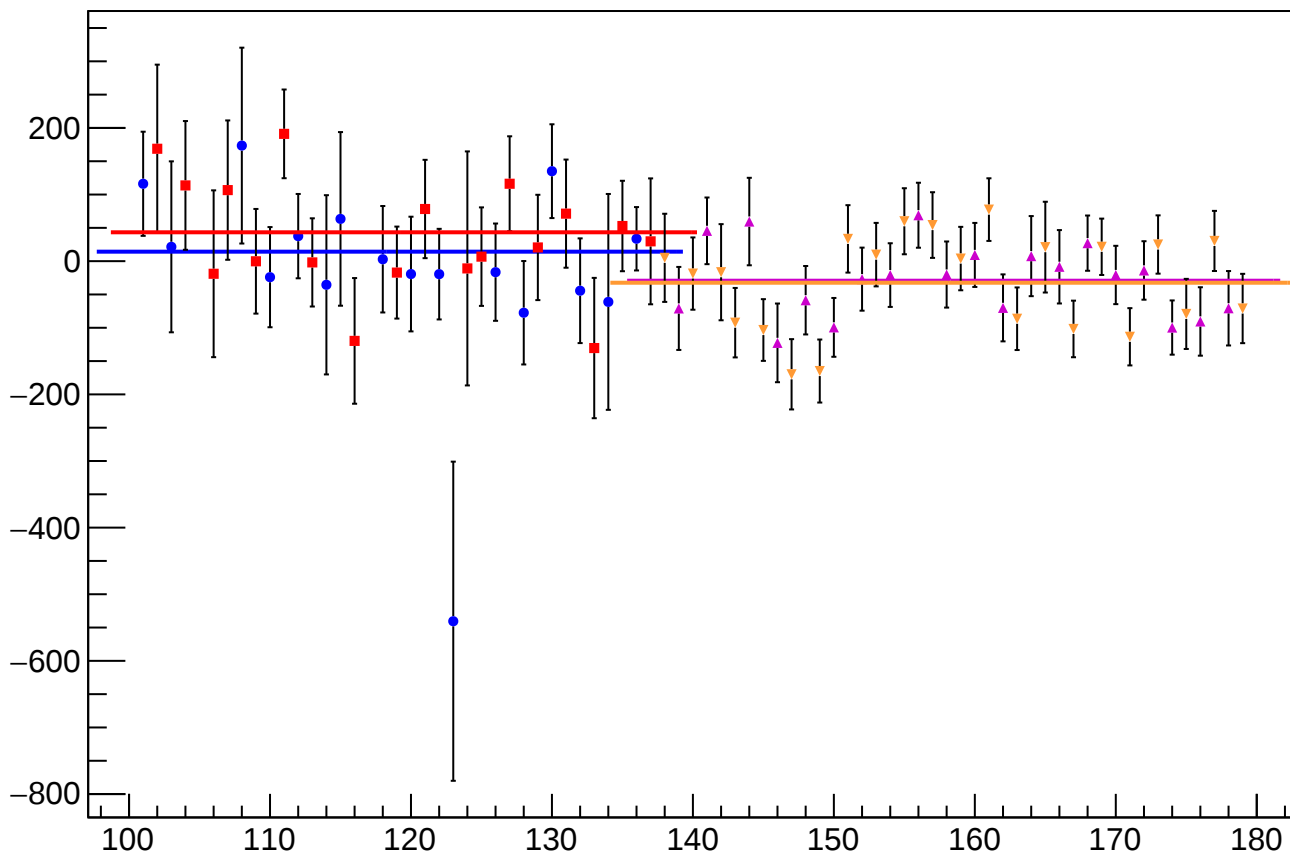
Right: 470.501 $\pm$ 0.093  $\chi^2/\text{NDF}$ : 1604306.1/34

In: 366.265 $\pm$ 0.056  $\chi^2/\text{NDF}$ :1882031.5/36

Out: 368.799 $\pm$ 0.055  $\chi^2/\text{NDF}$ :1944656.1/39

All: 367.562 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 3827735.5/76

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $14.253 \pm 19.867$   $\chi^2/\text{NDF}: 14.8/16$

Left Out:  $-32.376 \pm 10.535$   $\chi^2/\text{NDF}: 48.6/21$

Right Out:  $43.336 \pm 19.650$   $\chi^2/\text{NDF}: 16.2/17$

Left In:  $-29.353 \pm 11.085$   $\chi^2/\text{NDF}: 22.8/19$

Left:  $-30.941 \pm 7.636$   $\chi^2/\text{NDF}: 71.4/41$

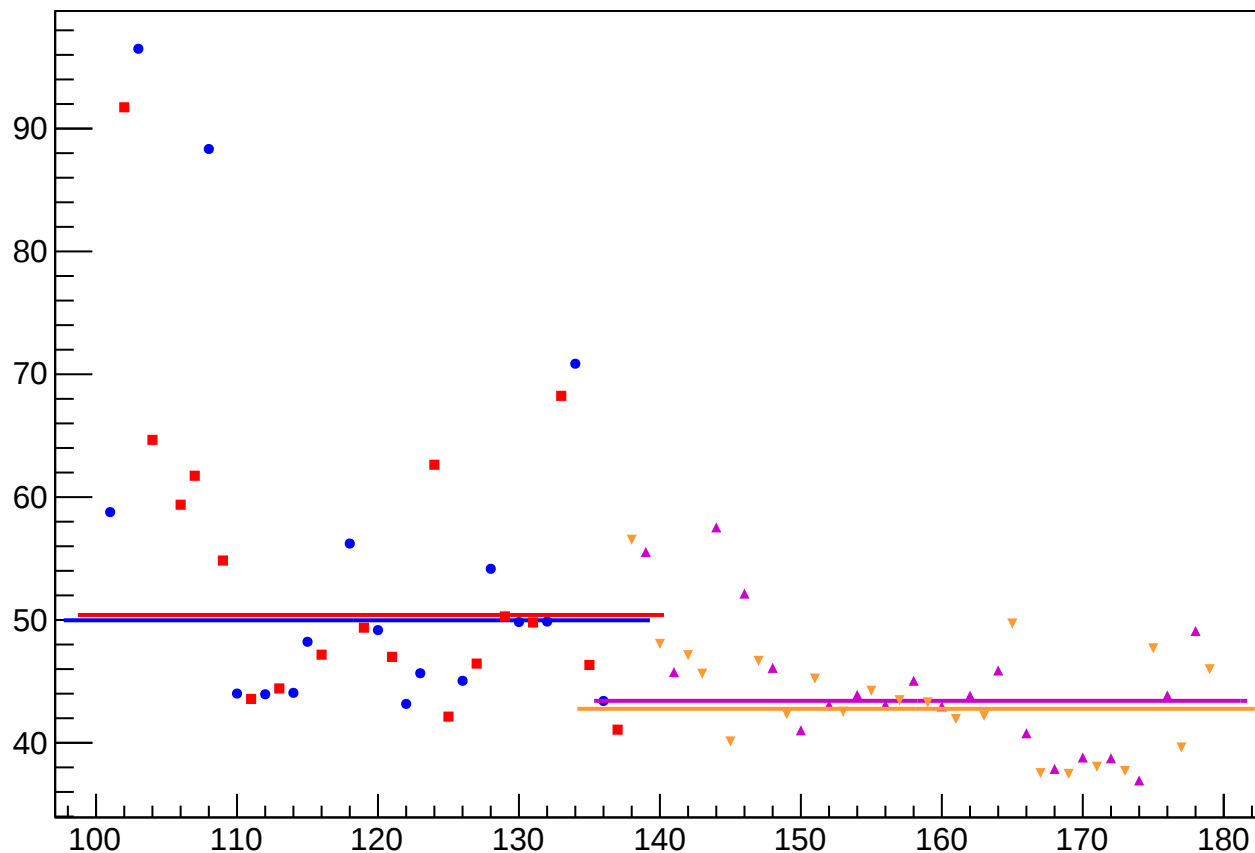
Right:  $28.954 \pm 13.971$   $\chi^2/\text{NDF}: 32.0/34$

In:  $-19.000 \pm 9.680$   $\chi^2/\text{NDF}: 41.2/36$

Out:  $-15.472 \pm 9.285$   $\chi^2/\text{NDF}: 76.3/39$

All:  $-17.163 \pm 6.701$   $\chi^2/\text{NDF}: 117.6/76$

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 49.973 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 578750.7/16

Left Out: 42.767 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 312953.9/21

Right Out: 50.408 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 467481.4/17

Left In: 43.418 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 390550.0/19

Left: 43.076 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 707127.0/41

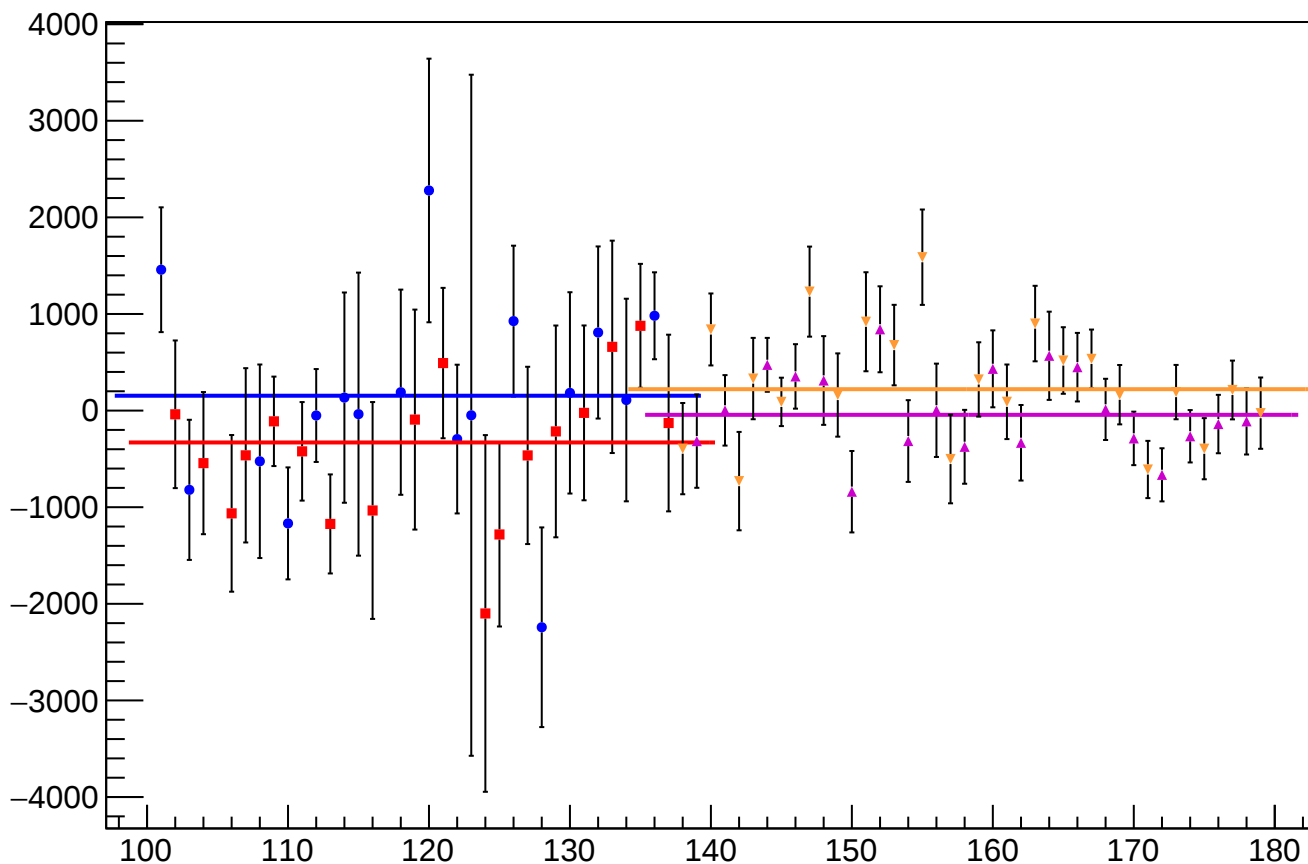
Right: 50.193 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 1046716.4/34

In: 44.974 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1135345.5/36

Out: 44.473 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1015323.2/39

All: 44.713 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 2153460.3/76

asym\_sam\_15\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 153.842 $\pm$ 189.963  $\chi^2$ /NDF: 24.8/16

Left Out: 221.477 $\pm$ 77.244  $\chi^2$ /NDF:43.4/21

Right Out: -329.952 $\pm$ 179.795  $\chi^2$ /NDF: 12.1/17

Left In: -43.895 $\pm$ 78.897  $\chi^2$ /NDF:26.9/19

Left: 91.600 $\pm$ 55.195  $\chi^2$ /NDF: 76.1/41

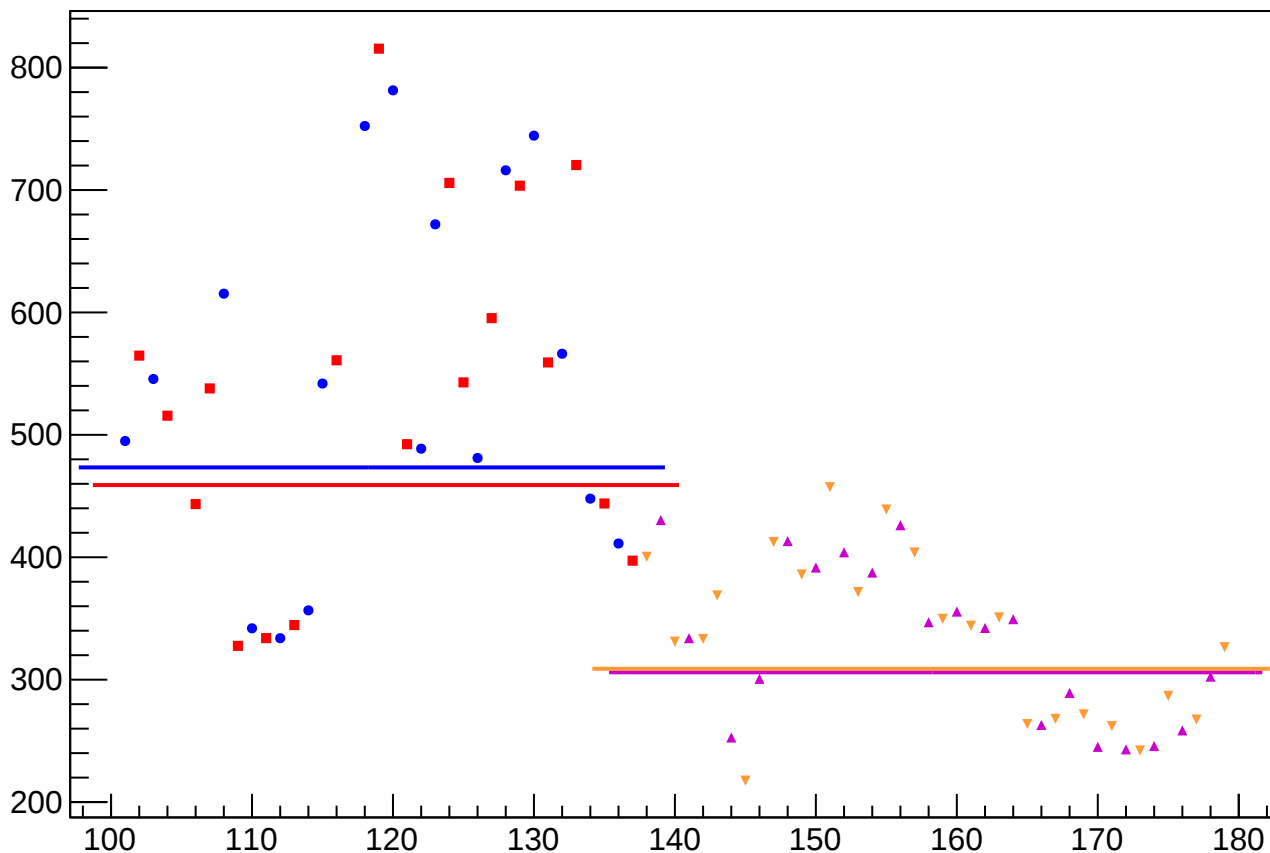
Right: -101.350 $\pm$ 130.581  $\chi^2$ /NDF: 40.3/34

In: -14.804 $\pm$ 72.862  $\chi^2$ /NDF:52.6/36

Out: 135.556 $\pm$ 70.971  $\chi^2$ /NDF:63.4/39

All: 62.353 $\pm$ 50.840  $\chi^2$ /NDF: 118.2/76

asym\_sam\_15\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 473.406 $\pm$ 0.134  $\chi^2$ /NDF: 914927.8/16

Left Out: 308.895 $\pm$ 0.055  $\chi^2$ /NDF:1369882.6/21

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

Left In: 306.009 $\pm$ 0.056  $\chi^2$ /NDF:1177953.4/19

Left: 307.483 $\pm$ 0.039  $\chi^2$ /NDF: 2549202.7/41

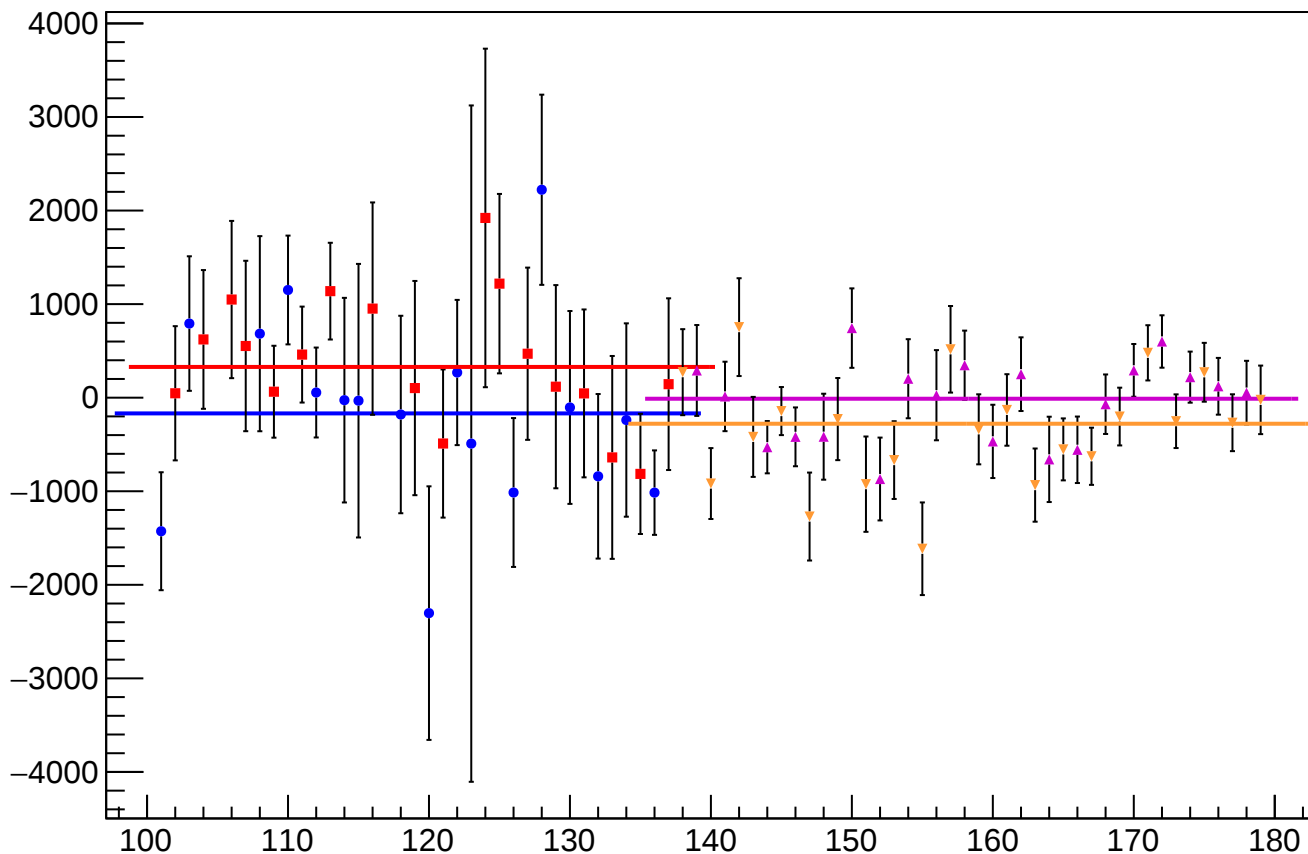
Right: 465.801 $\pm$ 0.092  $\chi^2$ /NDF: 1927262.4/34

In: 330.636 $\pm$ 0.052  $\chi^2$ /NDF:3417463.0/36

Out: 332.282 $\pm$ 0.050  $\chi^2$ /NDF:3552757.6/39

All: 331.481 $\pm$ 0.036  $\chi^2$ /NDF: 6970744.2/76

# asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $-168.049 \pm 189.758$   $\chi^2/\text{NDF}$ : 25.4/16

Left Out:  $-278.522 \pm 77.391$   $\chi^2/\text{NDF}$ : 40.9/21

Right Out:  $328.598 \pm 181.559$   $\chi^2/\text{NDF}$ : 11.1/17

Left In:  $-11.279 \pm 78.832$   $\chi^2/\text{NDF}$ : 27.5/19

Left:  $-147.366 \pm 55.226$   $\chi^2/\text{NDF}$ : 74.3/41

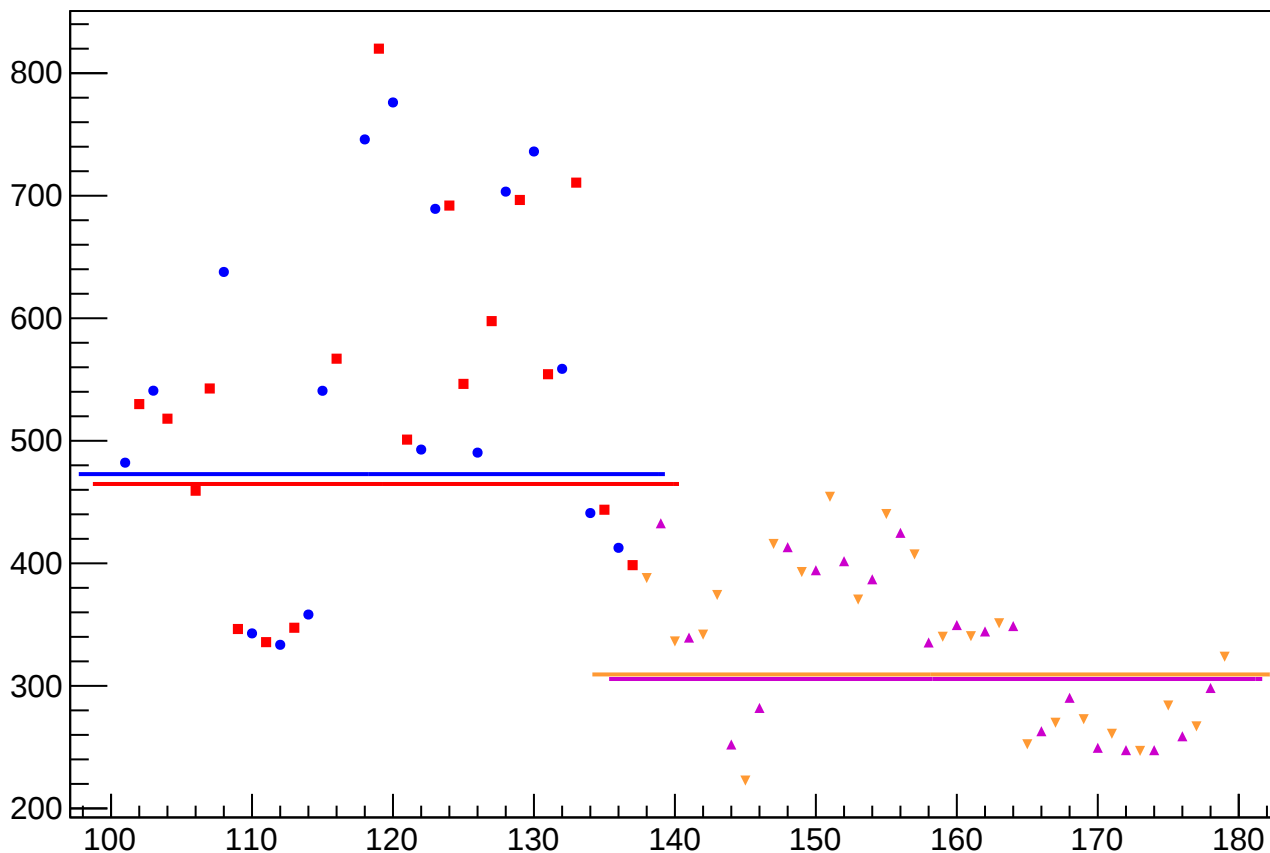
Right:  $91.236 \pm 131.185$   $\chi^2/\text{NDF}$ : 40.1/34

In:  $-34.353 \pm 72.800$   $\chi^2/\text{NDF}$ : 53.5/36

Out:  $-185.173 \pm 71.193$   $\chi^2/\text{NDF}$ : 61.5/39

All:  $-111.446 \pm 50.900$   $\chi^2/\text{NDF}$ : 117.2/76

asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 472.820+/-0.134  $\chi^2/\text{NDF}$ : 896373.5/16

Left Out: 309.327+/-0.055  $\chi^2/\text{NDF}$ :1333290.2/21

Right Out: 464.761+/-0.128  $\chi^2/\text{NDF}$ : 914781.1/17

Left In: 305.607+/-0.056  $\chi^2/\text{NDF}$ :1139449.8/19

Left: 307.501+/-0.039  $\chi^2/\text{NDF}$ : 2475007.3/41

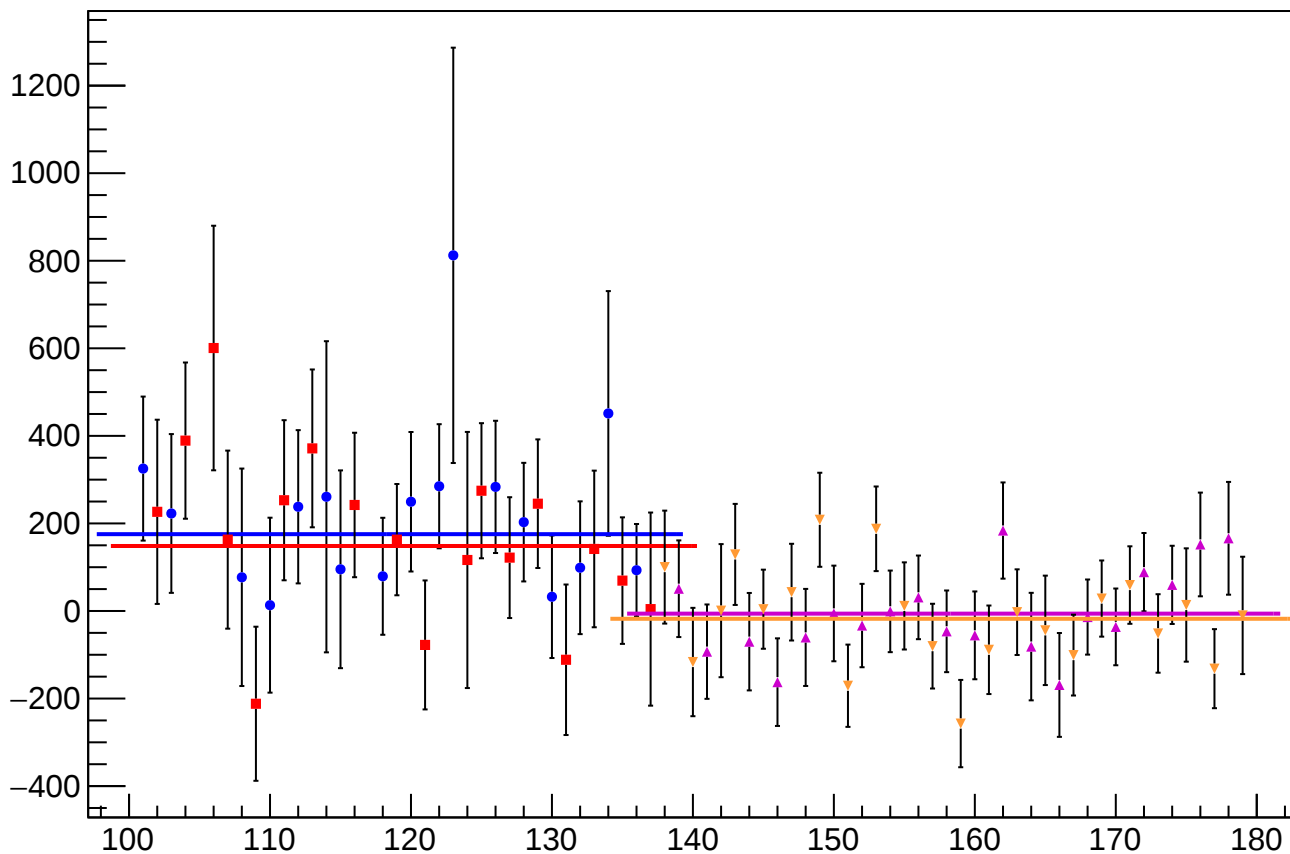
Right: 468.612+/-0.093  $\chi^2/\text{NDF}$ : 1813037.9/34

In: 330.218+/-0.051  $\chi^2/\text{NDF}$ :3360234.7/36

Out: 333.226+/-0.050  $\chi^2/\text{NDF}$ :3488522.6/39

All: 331.755+/-0.036  $\chi^2/\text{NDF}$ : 6850502.4/76

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In:  $175.468 \pm 40.358$   $\chi^2/\text{NDF}: 8.6/16$

Left Out:  $-17.827 \pm 21.982$   $\chi^2/\text{NDF}: 25.5/21$

Right Out:  $148.445 \pm 40.332$   $\chi^2/\text{NDF}: 17.5/17$

Left In:  $-6.071 \pm 22.754$   $\chi^2/\text{NDF}: 15.2/19$

Left:  $-12.152 \pm 15.809$   $\chi^2/\text{NDF}: 40.9/41$

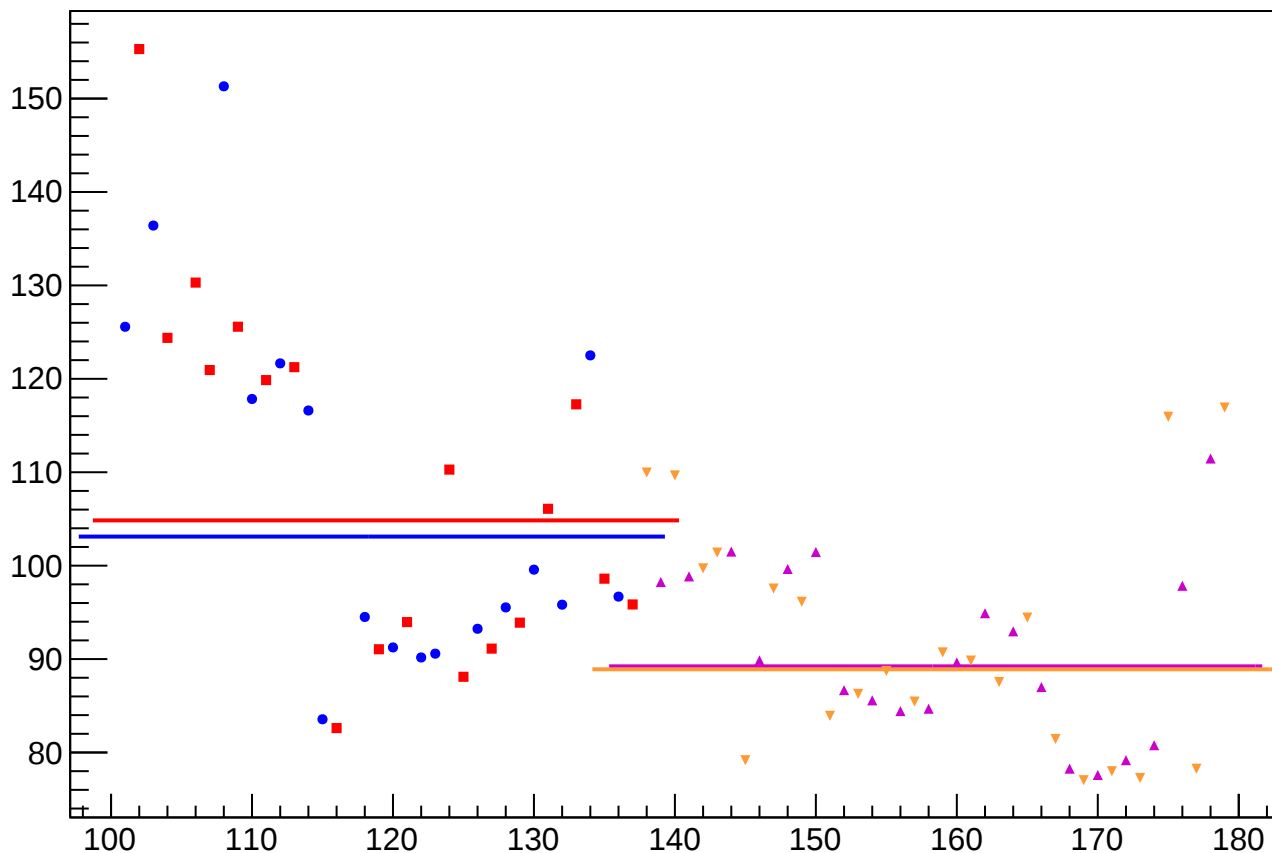
Right:  $161.947 \pm 28.528$   $\chi^2/\text{NDF}: 26.3/34$

In:  $37.715 \pm 19.821$   $\chi^2/\text{NDF}: 39.1/36$

Out:  $20.252 \pm 19.301$   $\chi^2/\text{NDF}: 56.1/39$

All:  $28.752 \pm 13.828$   $\chi^2/\text{NDF}: 95.7/76$

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 88.906 $\pm$ 0.016  $\chi^2$ /NDF: 519279.8/21

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

Left In: 89.221 $\pm$ 0.016  $\chi^2$ /NDF: 299951.7/19

Left: 89.058 $\pm$ 0.011  $\chi^2$ /NDF: 819429.0/41

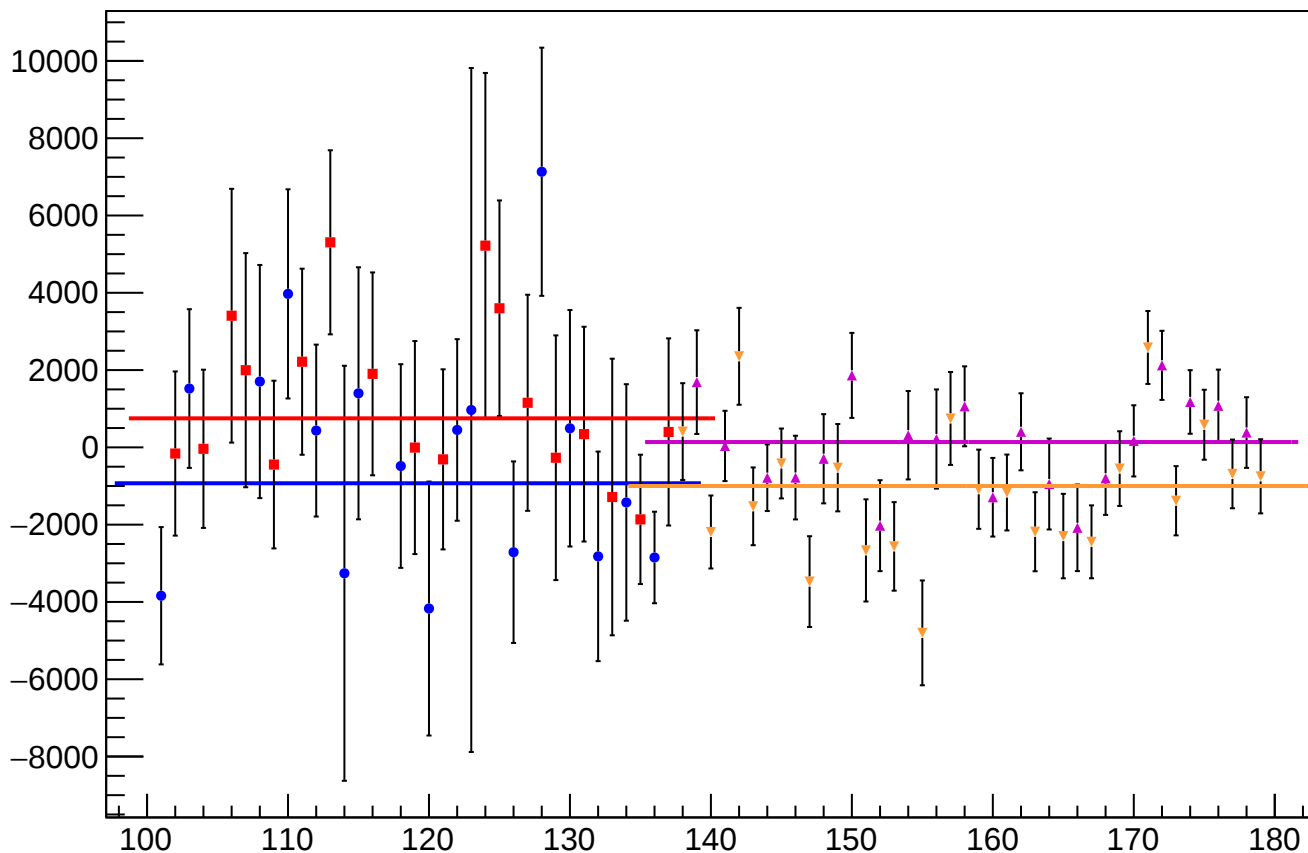
Right: 103.979 $\pm$ 0.020  $\chi^2$ /NDF: 676958.3/34

In: 92.571 $\pm$ 0.014  $\chi^2$ /NDF: 786187.6/36

Out: 92.556 $\pm$ 0.014  $\chi^2$ /NDF: 1128737.4/39

All: 92.564 $\pm$ 0.010  $\chi^2$ /NDF: 1914925.6/76

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-928.932 \pm 586.968$   $\chi^2/\text{NDF}: 20.9/16$

Left Out:  $-999.366 \pm 220.303$   $\chi^2/\text{NDF}: 52.0/21$

Right Out:  $751.262 \pm 594.960$   $\chi^2/\text{NDF}: 10.9/17$

Left In:  $137.924 \pm 226.934$   $\chi^2/\text{NDF}: 25.4/19$

Left:  $-447.580 \pm 158.070$   $\chi^2/\text{NDF}: 90.3/41$

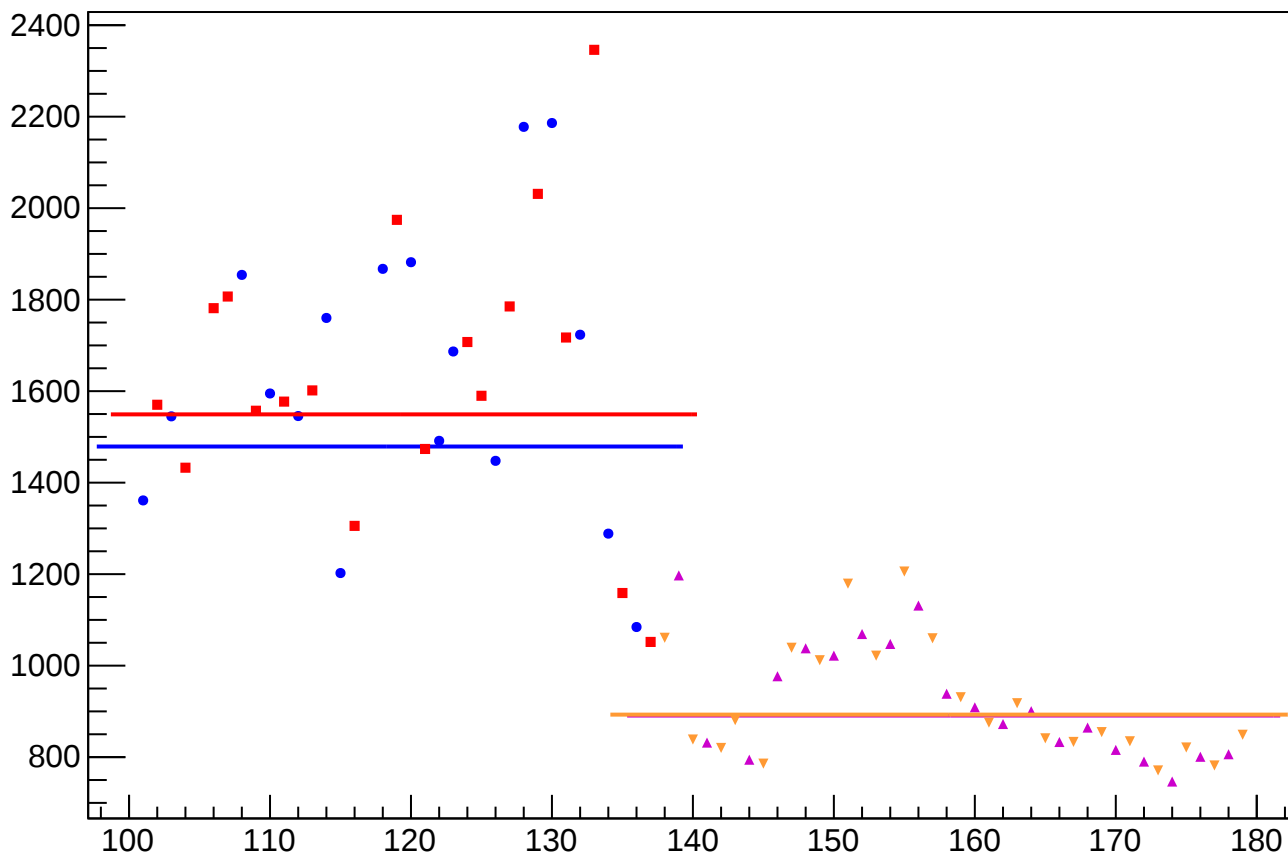
Right:  $-100.195 \pm 417.846$   $\chi^2/\text{NDF}: 35.8/34$

In:  $-0.807 \pm 211.665$   $\chi^2/\text{NDF}: 49.1/36$

Out:  $-788.281 \pm 206.594$   $\chi^2/\text{NDF}: 70.5/39$

All:  $-404.090 \pm 147.845$   $\chi^2/\text{NDF}: 126.7/76$

asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1478.991 $\pm$ 0.415  $\chi^2$ /NDF: 589620.8/16

Left Out: 892.941 $\pm$ 0.156  $\chi^2$ /NDF: 507788.1/21

Right Out: 1549.266 $\pm$ 0.421  $\chi^2$ /NDF: 462557.8/17

Left In: 890.859 $\pm$ 0.160  $\chi^2$ /NDF: 512977.3/19

Left: 891.931 $\pm$ 0.112  $\chi^2$ /NDF: 1020852.0/41

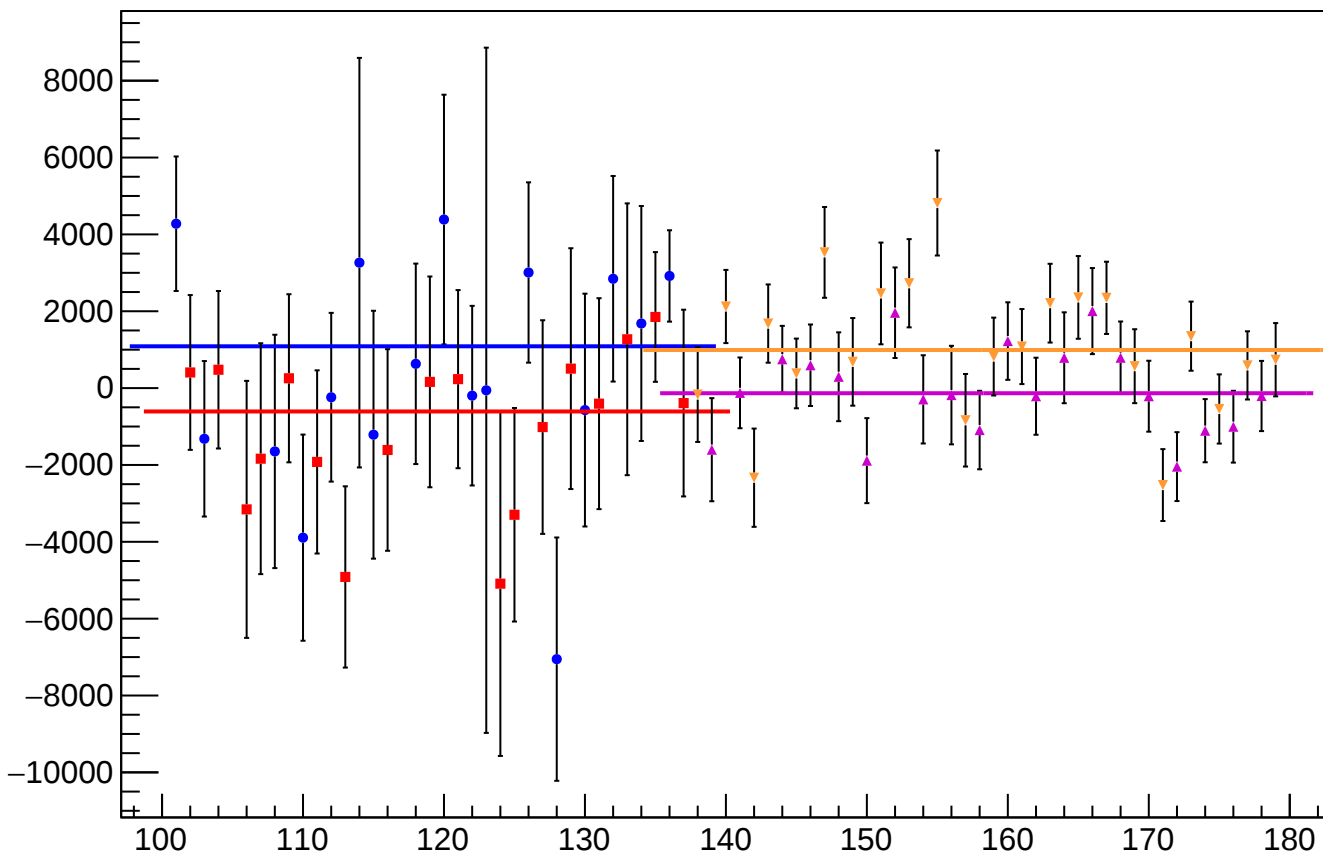
Right: 1513.653 $\pm$ 0.295  $\chi^2$ /NDF: 1066318.9/34

In: 967.339 $\pm$ 0.150  $\chi^2$ /NDF: 2849427.7/36

Out: 972.078 $\pm$ 0.146  $\chi^2$ /NDF: 3110727.3/39

All: 969.766 $\pm$ 0.105  $\chi^2$ /NDF: 5960668.5/76

asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 991.608 $\pm$ 220.185  $\chi^2$ /NDF:51.1/21

Right Out: -607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

Left In: -133.258 $\pm$ 226.923  $\chi^2$ /NDF:23.3/19

Left: 446.125 $\pm$ 158.023  $\chi^2$ /NDF: 87.1/41

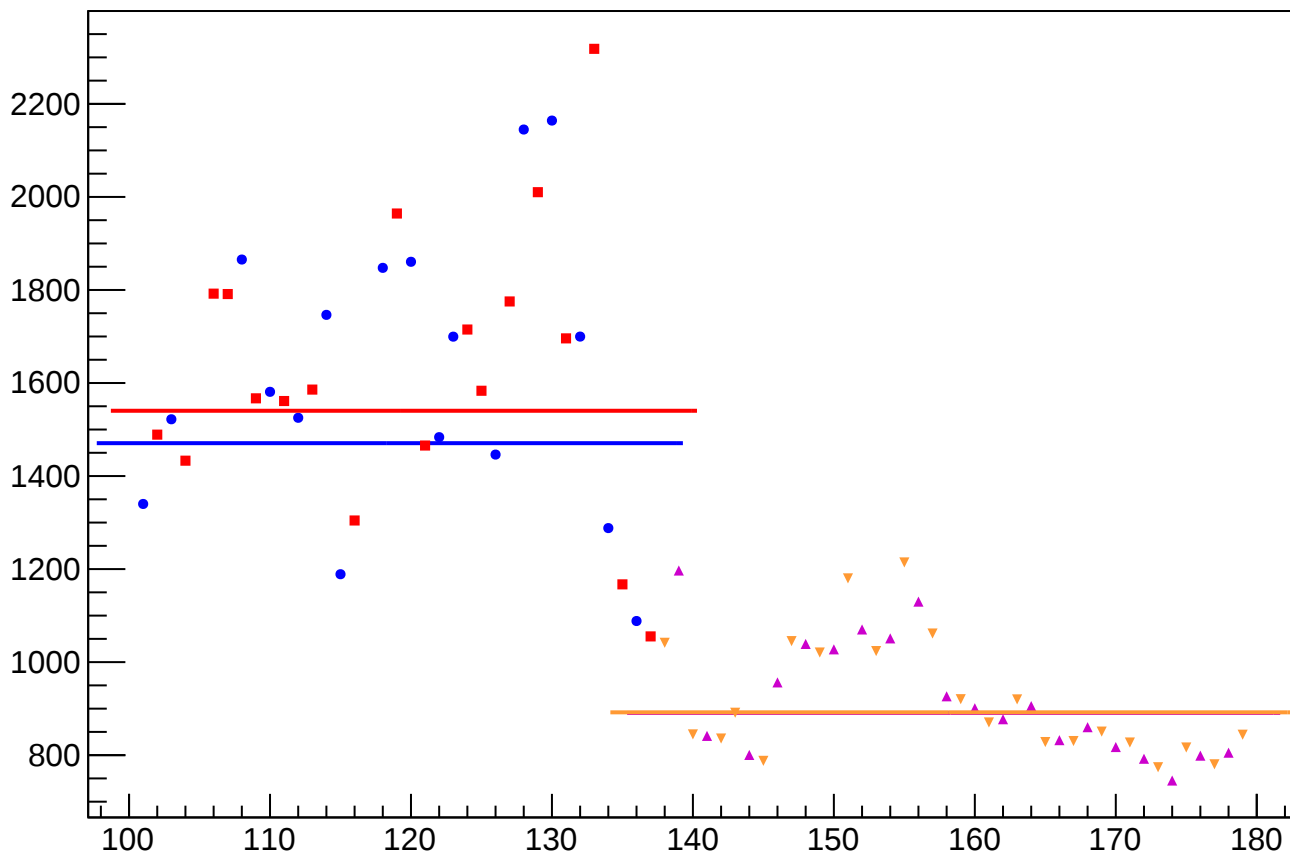
Right: 251.899 $\pm$ 415.351  $\chi^2$ /NDF: 35.9/34

In: 27.265 $\pm$ 211.485  $\chi^2$ /NDF:48.9/36

Out: 796.967 $\pm$ 206.354  $\chi^2$ /NDF:67.5/39

All: 421.566 $\pm$ 147.695  $\chi^2$ /NDF: 123.2/76

# asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 1470.683 $\pm$ 0.412  $\chi^2$ /NDF: 567728.4/16

Left Out: 892.063 $\pm$ 0.156  $\chi^2$ /NDF: 513808.4/21

Right Out: 1540.341 $\pm$ 0.418  $\chi^2$ /NDF: 442804.3/17

Left In: 890.722 $\pm$ 0.160  $\chi^2$ /NDF: 504665.3/19

Left: 891.413 $\pm$ 0.112  $\chi^2$ /NDF: 1018509.6/41

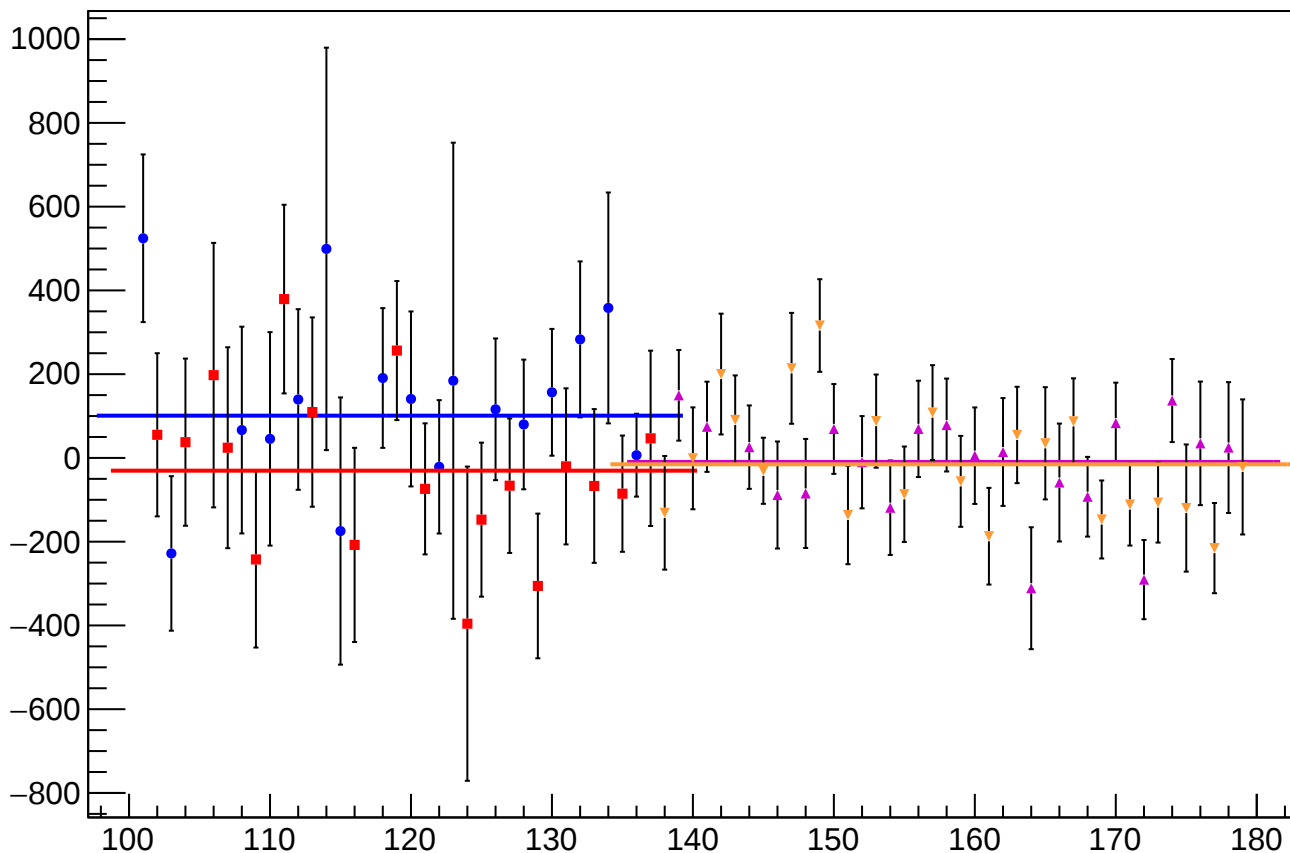
Right: 1505.024 $\pm$ 0.294  $\chi^2$ /NDF: 1024593.2/34

In: 966.953 $\pm$ 0.150  $\chi^2$ /NDF: 2789520.6/36

Out: 970.949 $\pm$ 0.146  $\chi^2$ /NDF: 3066304.2/39

All: 969.000 $\pm$ 0.104  $\chi^2$ /NDF: 5856190.6/76

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 100.918 $\pm$ 45.284  $\chi^2$ /NDF: 13.0/16

Left Out: -15.240 $\pm$ 23.910  $\chi^2$ /NDF:31.2/21

Right Out: -30.411 $\pm$ 45.710  $\chi^2$ /NDF: 13.5/17

Left In: -9.586 $\pm$ 25.407  $\chi^2$ /NDF:23.5/19

Left: -12.584 $\pm$ 17.412  $\chi^2$ /NDF: 54.7/41

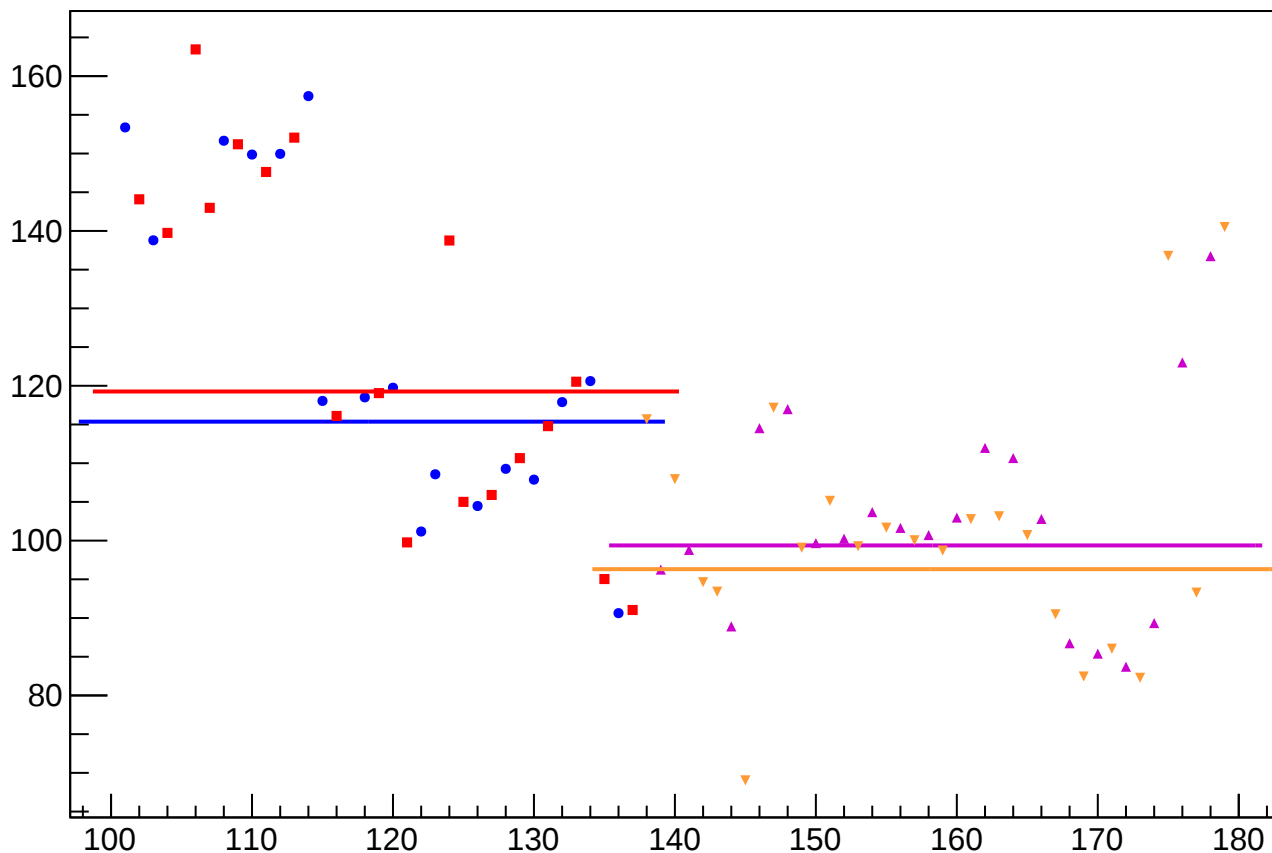
Right: 35.869 $\pm$ 32.170  $\chi^2$ /NDF: 30.7/34

In: 16.872 $\pm$ 22.158  $\chi^2$ /NDF:41.1/36

Out: -18.499 $\pm$ 21.186  $\chi^2$ /NDF:44.8/39

All: -1.606 $\pm$ 15.313  $\chi^2$ /NDF: 87.1/76

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 96.311 $\pm$ 0.017  $\chi^2$ /NDF:796207.1/21

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

Left In: 99.378 $\pm$ 0.018  $\chi^2$ /NDF:445253.0/19

Left: 97.752 $\pm$ 0.012  $\chi^2$ /NDF: 1256915.6/41

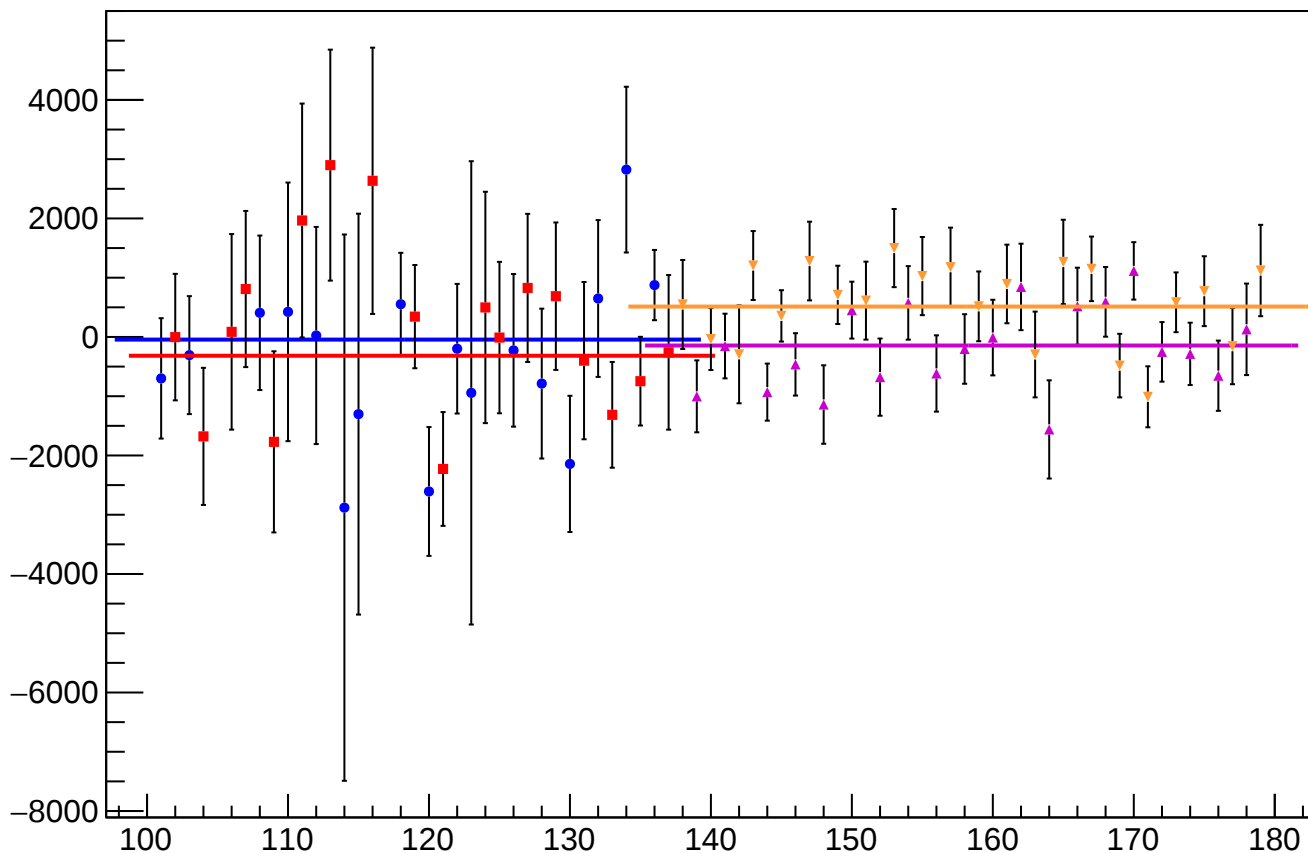
Right: 117.296 $\pm$ 0.023  $\chi^2$ /NDF: 817014.4/34

In: 103.206 $\pm$ 0.016  $\chi^2$ /NDF:1046234.1/36

Out: 101.242 $\pm$ 0.015  $\chi^2$ /NDF:1590431.9/39

All: 102.180 $\pm$ 0.011  $\chi^2$ /NDF: 2644878.0/76

asym\_sam\_26\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-44.553 \pm 286.284$   $\chi^2/\text{NDF}: 17.9/16$

Left Out:  $512.913 \pm 127.707$   $\chi^2/\text{NDF}: 27.2/21$

Right Out:  $-316.976 \pm 283.113$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $-144.589 \pm 130.981$   $\chi^2/\text{NDF}: 26.5/19$

Left:  $192.482 \pm 91.438$   $\chi^2/\text{NDF}: 66.6/41$

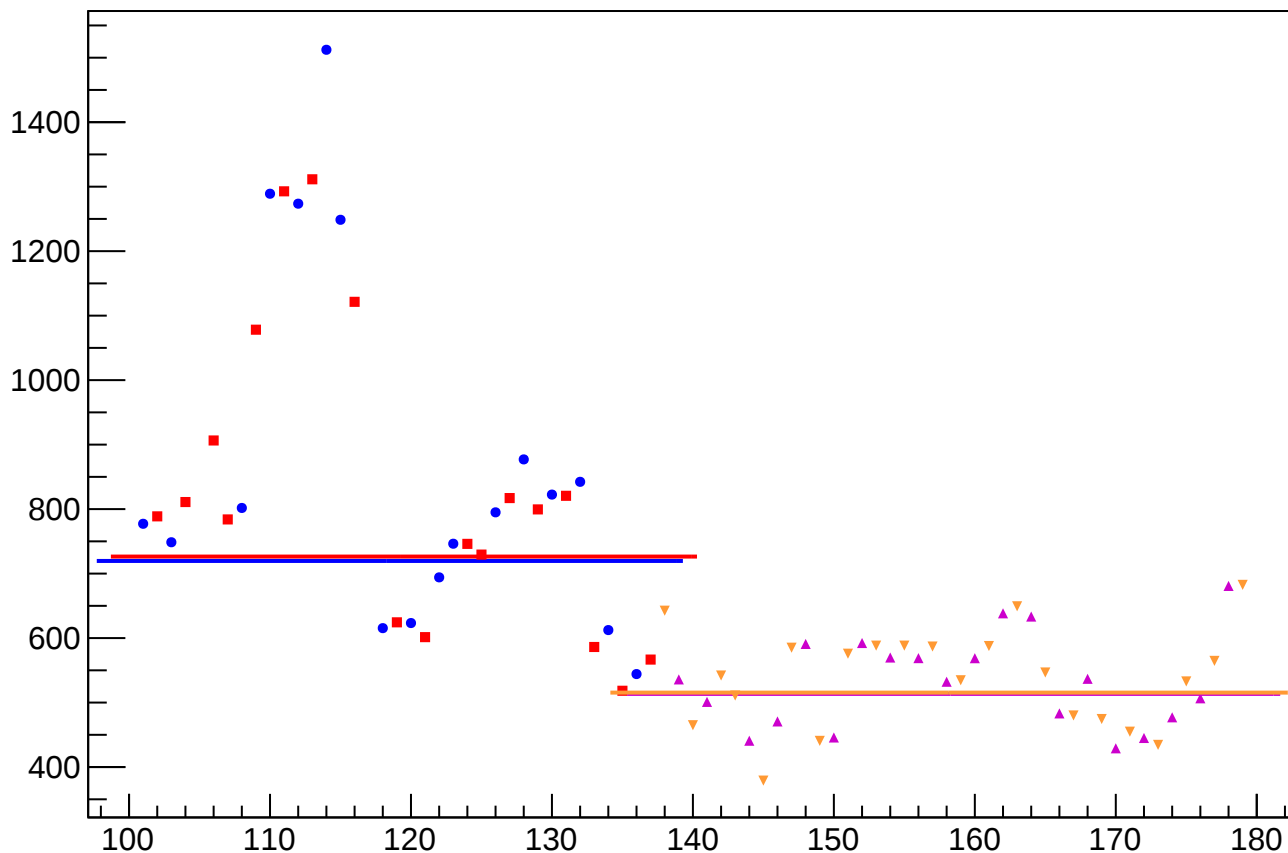
Right:  $-182.282 \pm 201.303$   $\chi^2/\text{NDF}: 35.1/34$

In:  $-127.273 \pm 119.107$   $\chi^2/\text{NDF}: 44.5/36$

Out:  $372.601 \pm 116.412$   $\chi^2/\text{NDF}: 51.1/39$

All:  $128.383 \pm 83.252$   $\chi^2/\text{NDF}: 104.6/76$

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 515.449 $\pm$ 0.090  $\chi^2$ /NDF: 738213.7/21

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

Left In: 513.415 $\pm$ 0.093  $\chi^2$ /NDF: 516779.9/19

Left: 514.458 $\pm$ 0.065  $\chi^2$ /NDF: 1255241.0/41

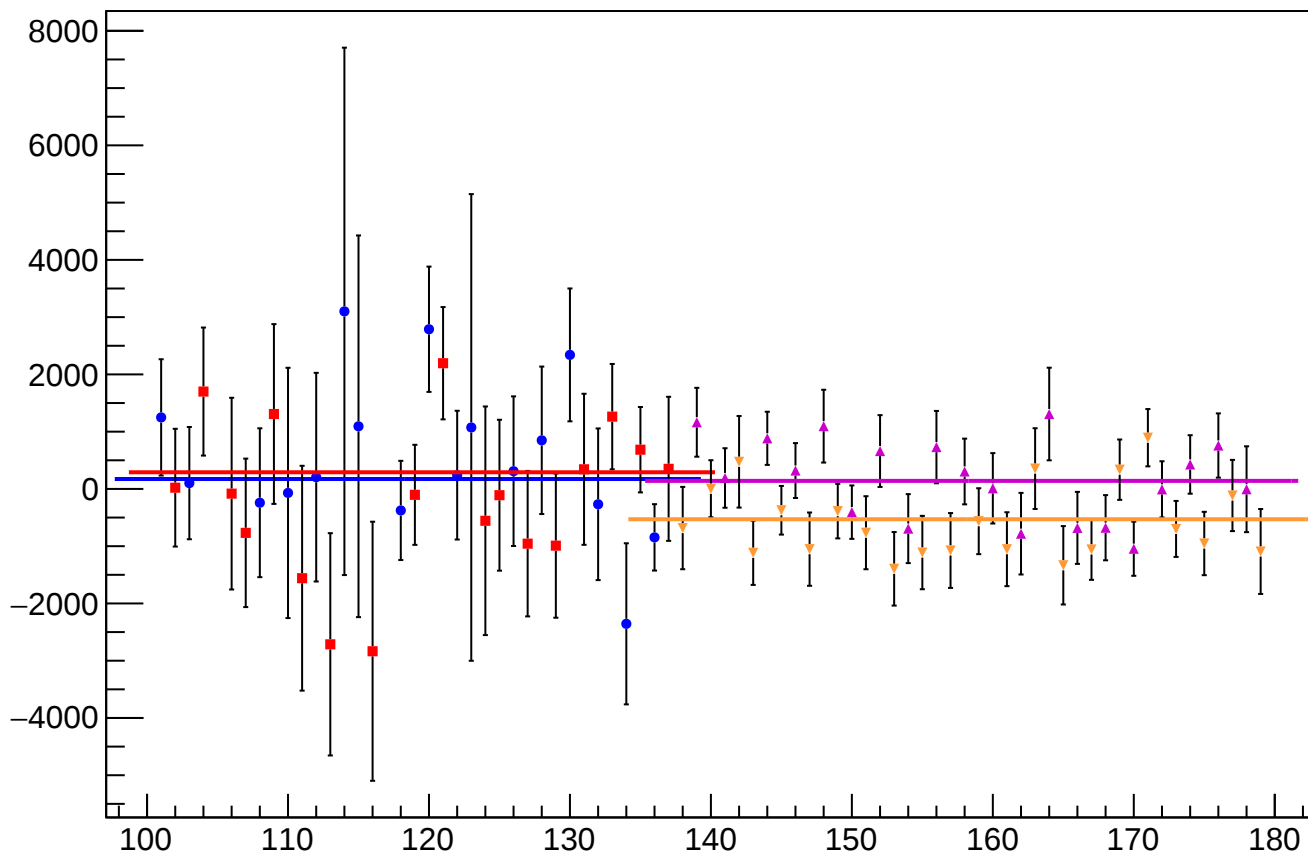
Right: 723.039 $\pm$ 0.142  $\chi^2$ /NDF: 1628507.7/34

In: 549.105 $\pm$ 0.084  $\chi^2$ /NDF: 2121621.4/36

Out: 551.115 $\pm$ 0.082  $\chi^2$ /NDF: 2541825.5/39

All: 550.133 $\pm$ 0.059  $\chi^2$ /NDF: 4663738.2/76

# asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 173.182+/-285.672  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: -529.679+/-123.713  $\chi^2/\text{NDF}$ : 25.3/21

Right Out: 290.799+/-283.545  $\chi^2/\text{NDF}$ : 15.6/17

Left In: 140.731+/-126.439  $\chi^2/\text{NDF}$ : 28.3/19

Left: -201.779+/-88.427  $\chi^2/\text{NDF}$ : 68.0/41

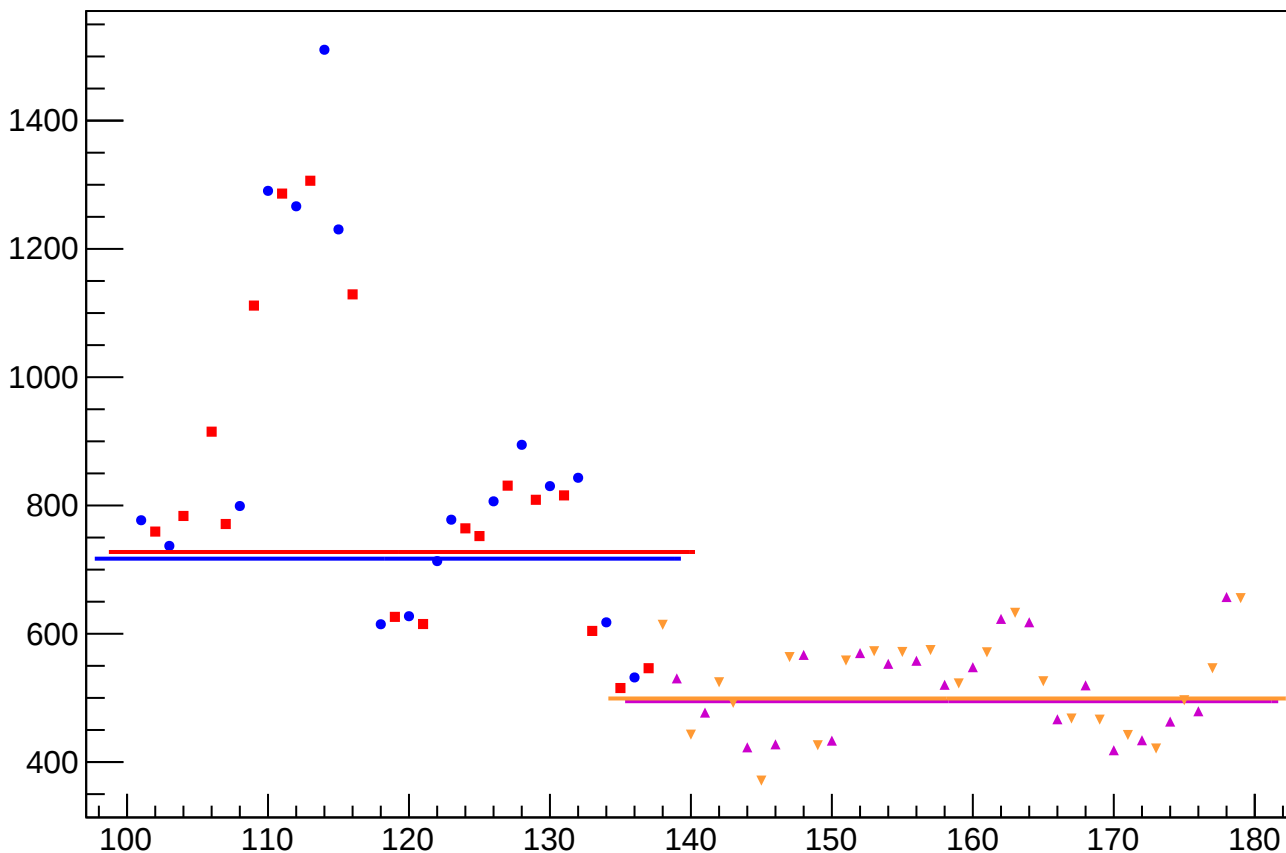
Right: 232.430+/-201.245  $\chi^2/\text{NDF}$ : 33.8/34

In: 146.047+/-115.621  $\chi^2/\text{NDF}$ : 46.4/36

Out: -398.467+/-113.390  $\chi^2/\text{NDF}$ : 48.0/39

All: -131.513+/-80.956  $\chi^2/\text{NDF}$ : 105.7/76

asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 717.083 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 499.109 $\pm$ 0.087  $\chi^2/\text{NDF}$ : 718777.2/21

Right Out: 727.490 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 881036.5/17

Left In: 494.860 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 548650.2/19

Left: 497.031 $\pm$ 0.063  $\chi^2/\text{NDF}$ : 1268581.0/41

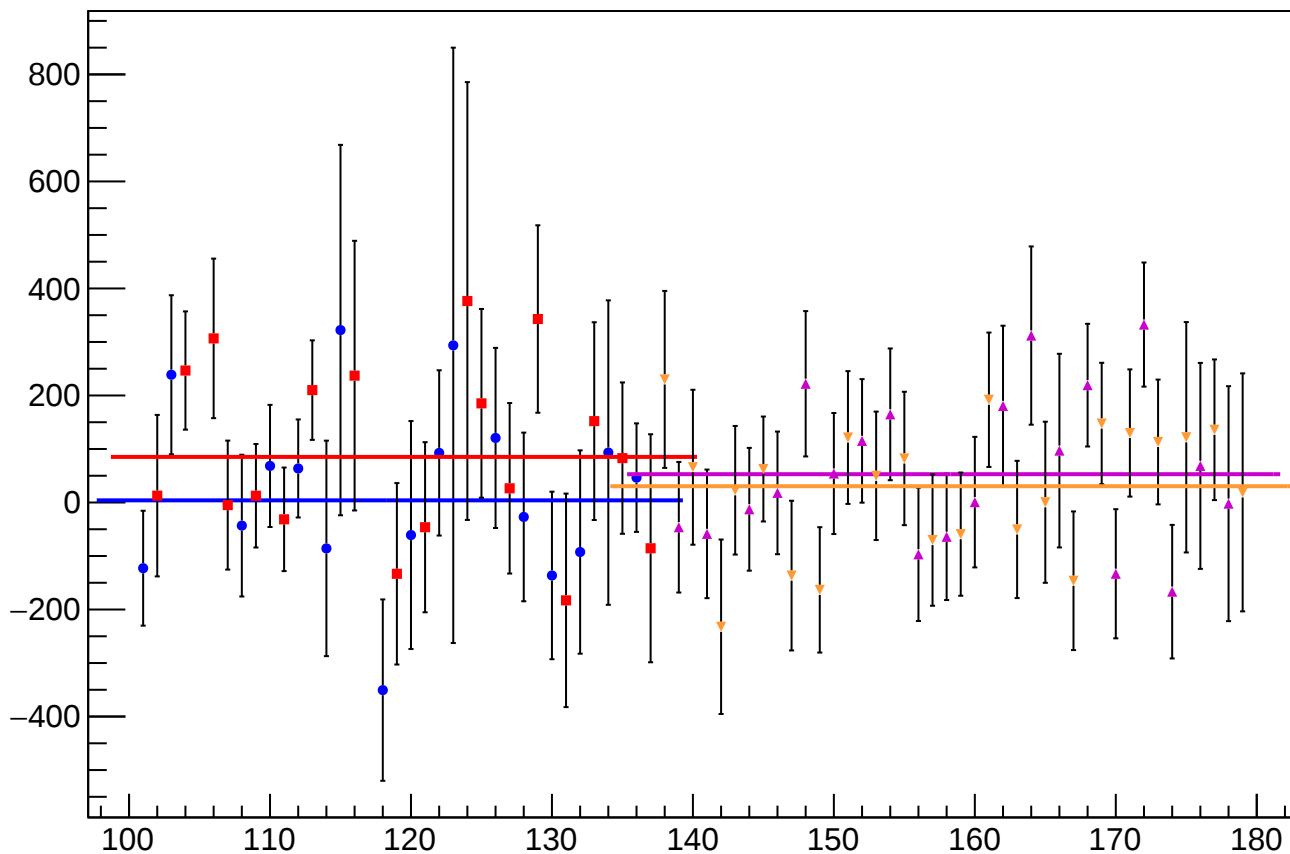
Right: 722.325 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 1664822.9/34

In: 531.262 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 2343090.5/36

Out: 535.632 $\pm$ 0.080  $\chi^2/\text{NDF}$ : 2689809.7/39

All: 533.489 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 5034356.3/76

dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}: 12.7/16$

Left Out:  $30.425 \pm 27.637$   $\chi^2/\text{NDF}: 17.4/21$

Right Out:  $85.205 \pm 33.413$   $\chi^2/\text{NDF}: 17.4/17$

Left In:  $52.878 \pm 28.779$   $\chi^2/\text{NDF}: 23.9/19$

Left:  $41.197 \pm 19.934$   $\chi^2/\text{NDF}: 41.6/41$

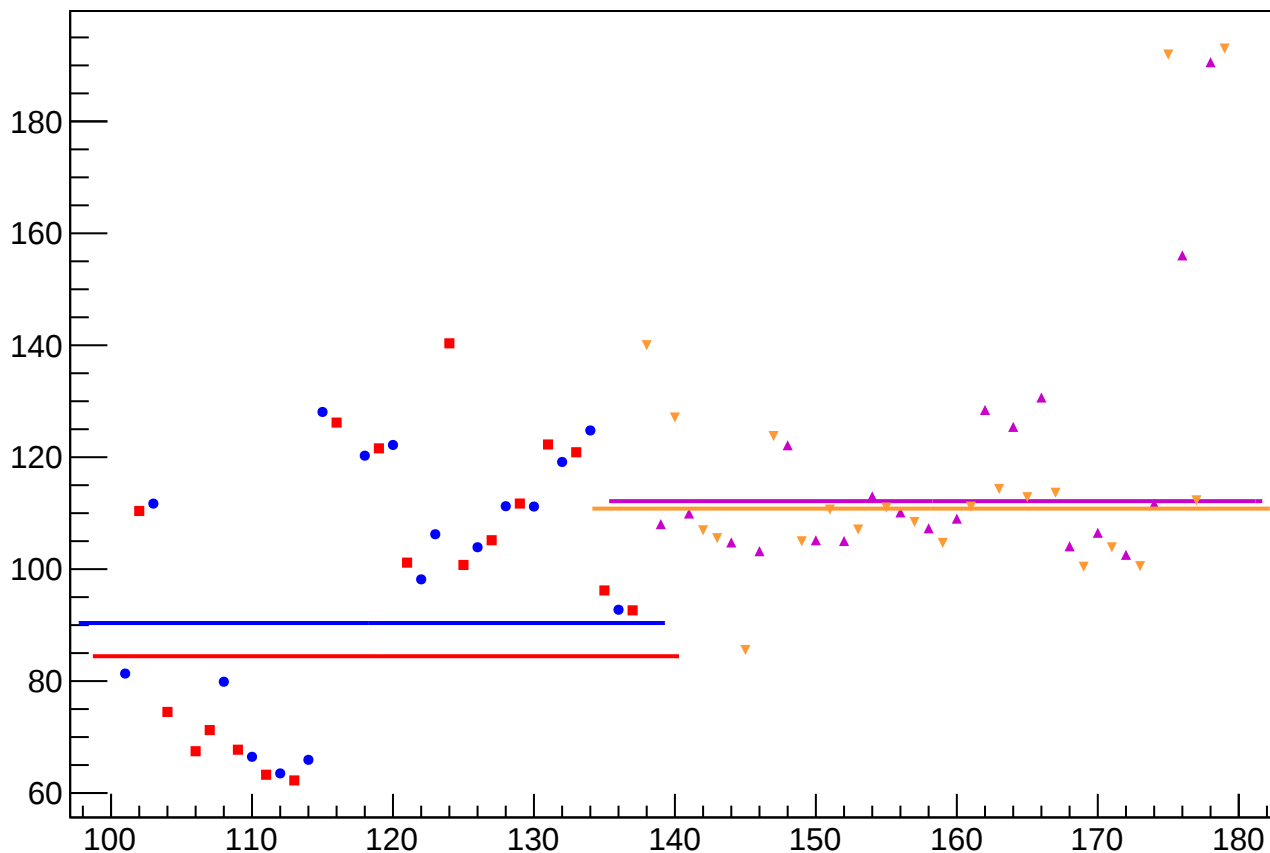
Right:  $47.574 \pm 24.474$   $\chi^2/\text{NDF}: 32.8/34$

In:  $33.792 \pm 22.467$   $\chi^2/\text{NDF}: 37.7/36$

Out:  $52.678 \pm 21.296$   $\chi^2/\text{NDF}: 36.4/39$

All:  $43.740 \pm 15.456$   $\chi^2/\text{NDF}: 74.5/76$

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 90.375 $\pm$ 0.025  $\chi^2$ /NDF: 654139.7/16

Left Out: 110.816 $\pm$ 0.020  $\chi^2$ /NDF: 855407.4/21

Right Out: 84.442 $\pm$ 0.024  $\chi^2$ /NDF: 870835.6/17

Left In: 112.149 $\pm$ 0.020  $\chi^2$ /NDF: 499304.7/19

Left: 111.455 $\pm$ 0.014  $\chi^2$ /NDF: 1356944.6/41

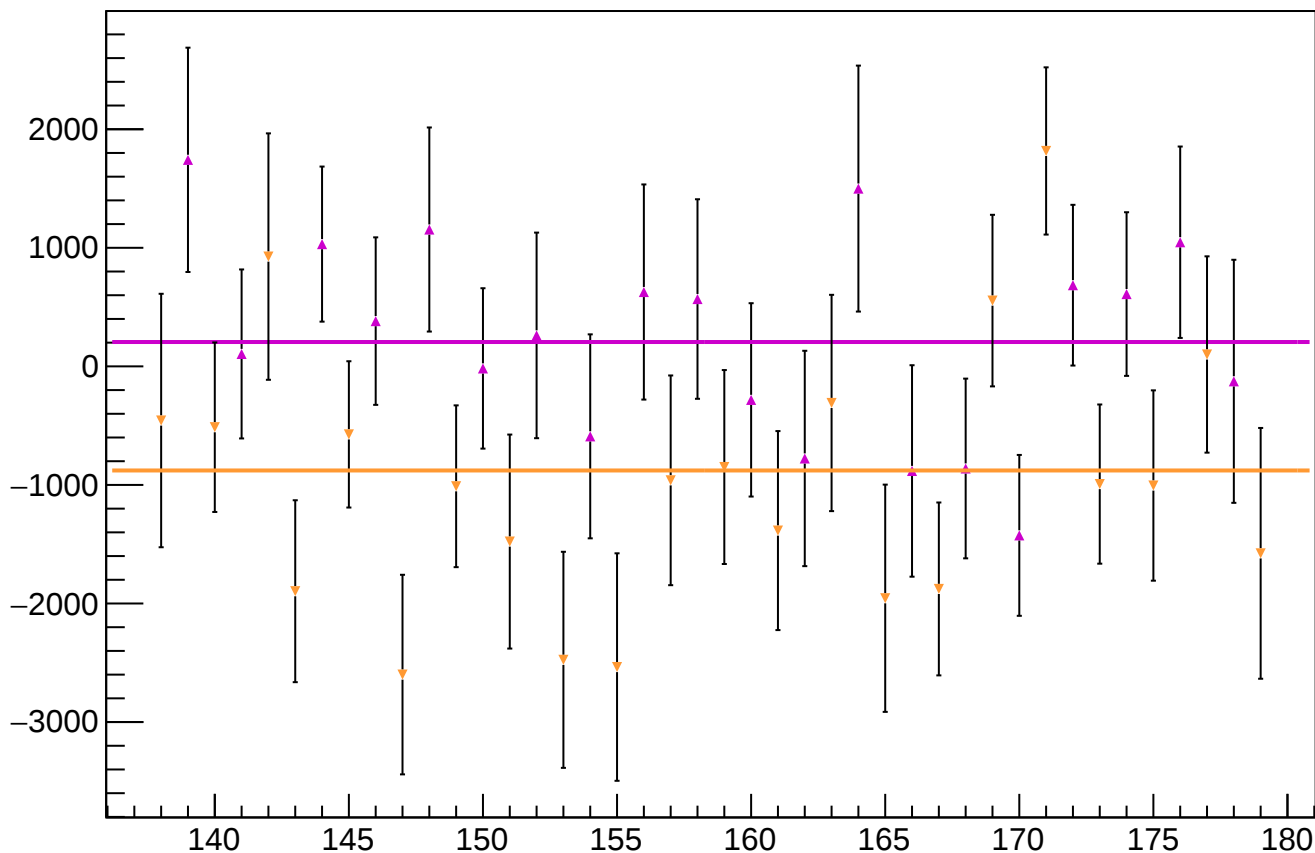
Right: 87.192 $\pm$ 0.017  $\chi^2$ /NDF: 1554203.3/34

In: 103.645 $\pm$ 0.016  $\chi^2$ /NDF: 1600562.6/36

Out: 100.102 $\pm$ 0.015  $\chi^2$ /NDF: 2466135.1/39

All: 101.779 $\pm$ 0.011  $\chi^2$ /NDF: 4092894.4/76

asym\_sam\_1548\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -878.071+/-172.590  $\chi^2/\text{NDF}$ :40.5/21

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

Left In: 205.389+/-177.187  $\chi^2/\text{NDF}$ :21.3/19

Left: -350.580+/-123.633  $\chi^2/\text{NDF}$ : 80.9/41

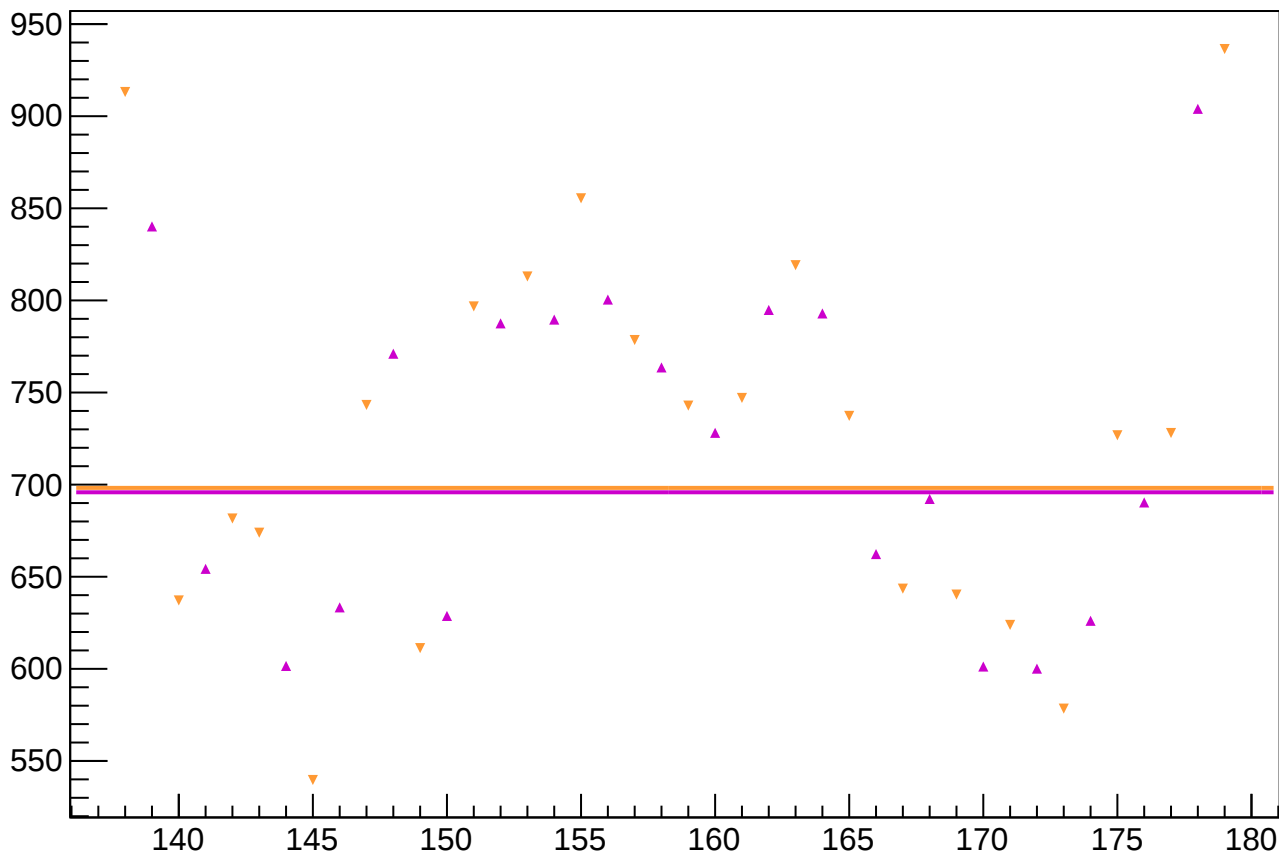
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 205.389+/-177.187  $\chi^2/\text{NDF}$ :21.3/19

Out: -878.071+/-172.590  $\chi^2/\text{NDF}$ :40.5/21

All: -350.580+/-123.633  $\chi^2/\text{NDF}$ : 80.9/41

asym\_sam\_1548\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 698.240+/-0.122  $\chi^2/\text{NDF}$ : 661853.3/21

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

Left In: 695.844+/-0.125  $\chi^2/\text{NDF}$ : 460264.0/19

Left: 697.074+/-0.087  $\chi^2/\text{NDF}$ : 1122304.9/41

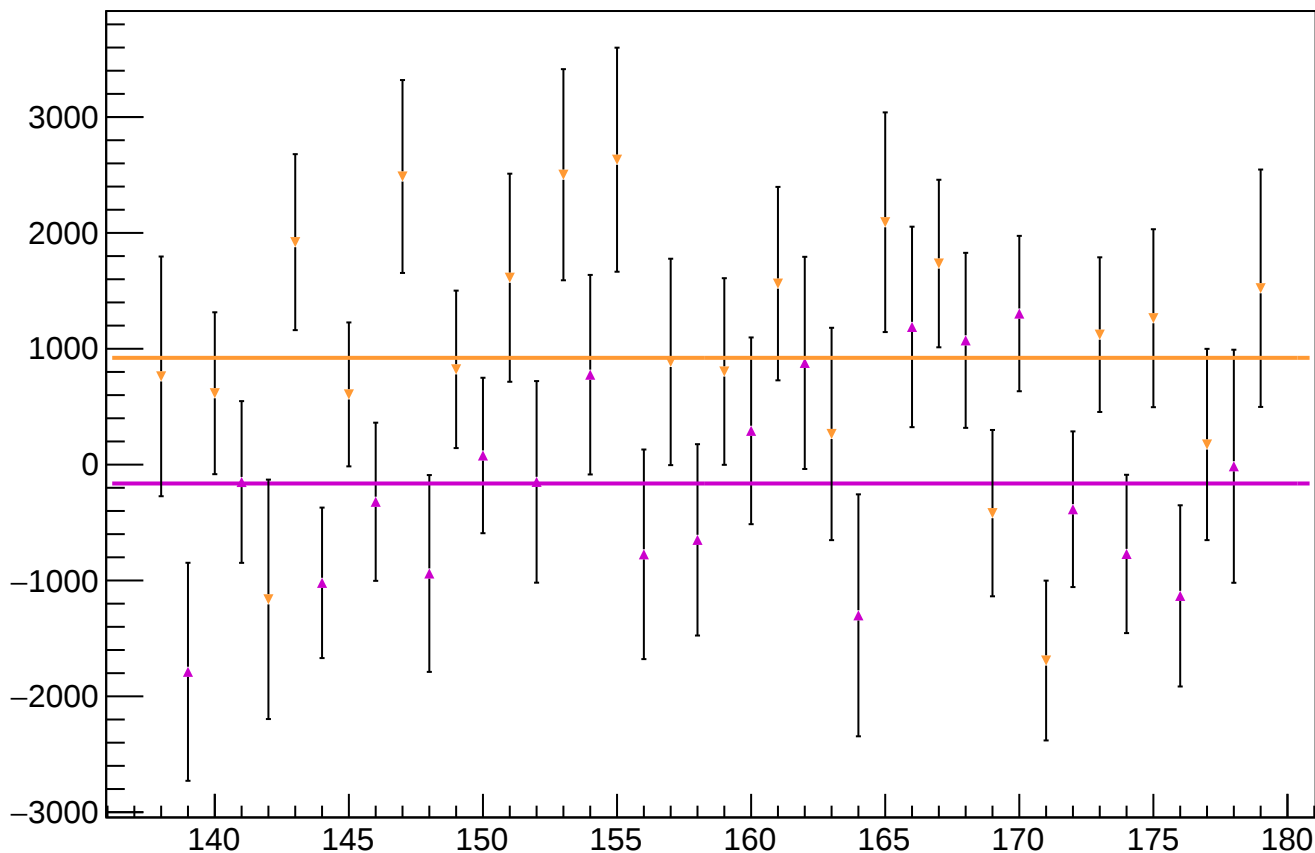
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 695.844+/-0.125  $\chi^2/\text{NDF}$ : 460264.0/19

Out: 698.240+/-0.122  $\chi^2/\text{NDF}$ : 661853.3/21

All: 697.074+/-0.087  $\chi^2/\text{NDF}$ : 1122304.9/41

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 921.704+/-170.940  $\chi^2/\text{NDF}$ :39.8/21

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

Left In: -162.782+/-175.122  $\chi^2/\text{NDF}$ :22.9/19

Left: 392.564+/-122.325  $\chi^2/\text{NDF}$ : 82.3/41

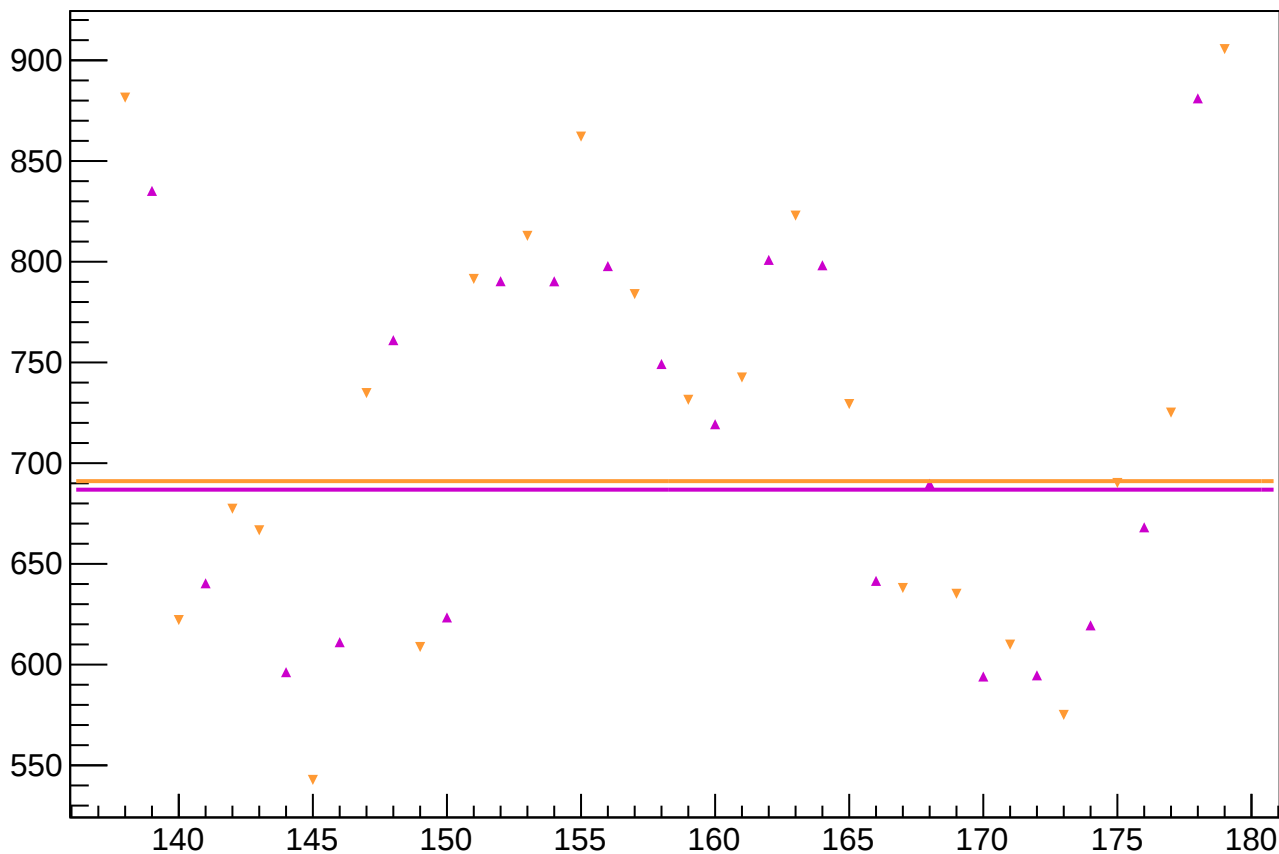
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -162.782+/-175.122  $\chi^2/\text{NDF}$ :22.9/19

Out: 921.704+/-170.940  $\chi^2/\text{NDF}$ :39.8/21

All: 392.564+/-122.325  $\chi^2/\text{NDF}$ : 82.3/41

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 691.074+/-0.121  $\chi^2/\text{NDF}$ : 642931.7/21

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

Left In: 686.841+/-0.124  $\chi^2/\text{NDF}$ : 487604.6/19

Left: 689.009+/-0.086  $\chi^2/\text{NDF}$ : 1131134.9/41

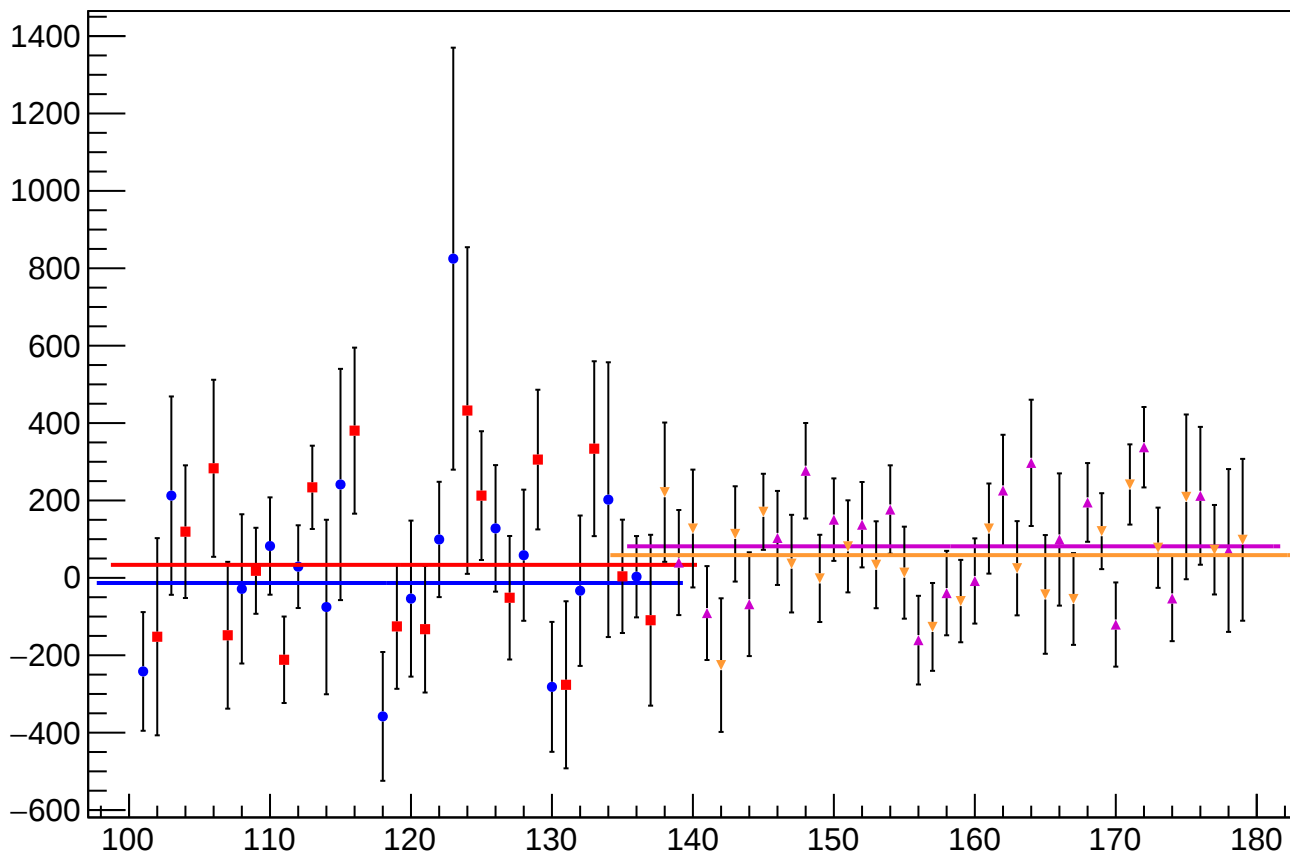
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 686.841+/-0.124  $\chi^2/\text{NDF}$ : 487604.6/19

Out: 691.074+/-0.121  $\chi^2/\text{NDF}$ : 642931.7/21

All: 689.009+/-0.086  $\chi^2/\text{NDF}$ : 1131134.9/41

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In:  $-13.215 \pm 40.554$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $58.745 \pm 26.085$   $\chi^2/\text{NDF}$ : 15.5/21

Right Out:  $33.637 \pm 38.891$   $\chi^2/\text{NDF}$ : 24.7/17

Left In:  $81.546 \pm 27.415$   $\chi^2/\text{NDF}$ : 29.2/19

Left:  $69.579 \pm 18.898$   $\chi^2/\text{NDF}$ : 45.1/41

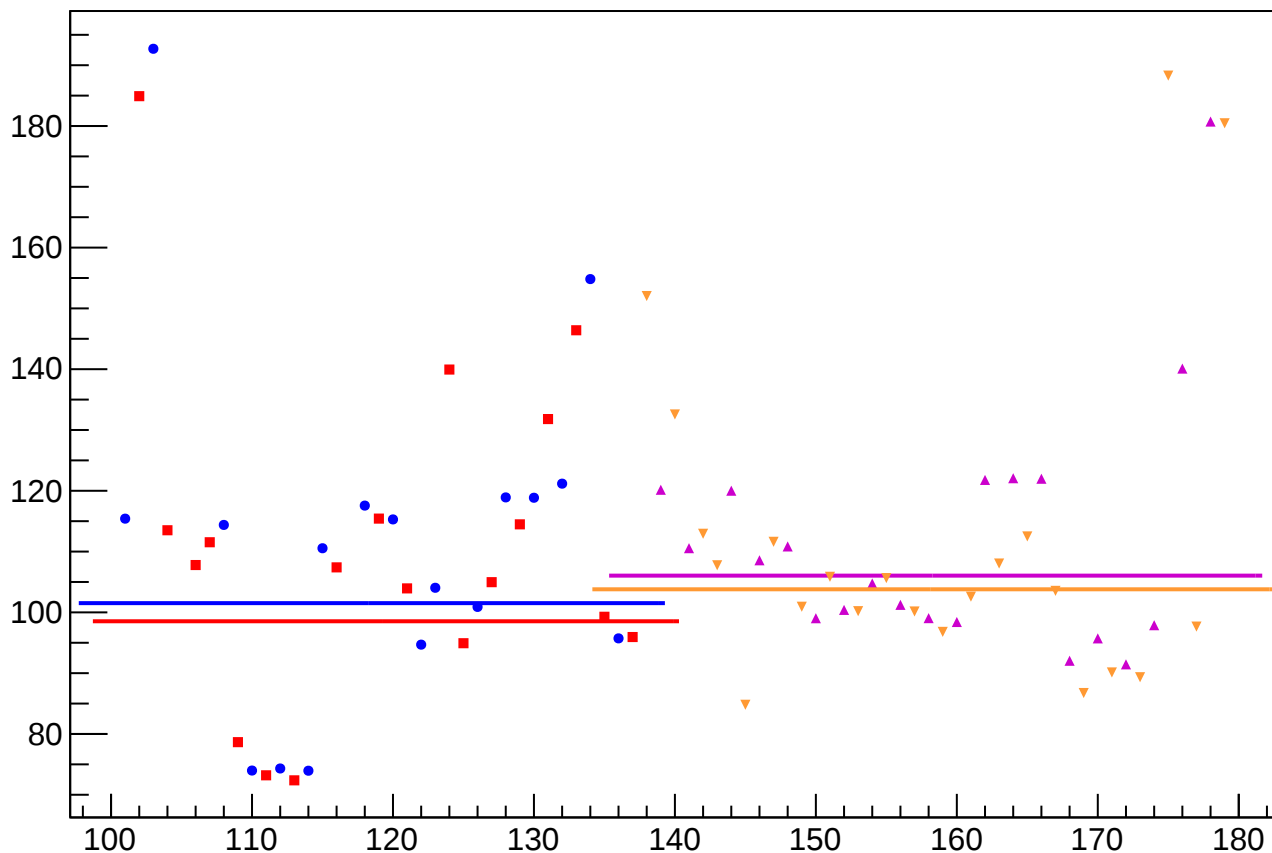
Right:  $11.191 \pm 28.070$   $\chi^2/\text{NDF}$ : 41.1/34

In:  $51.823 \pm 22.712$   $\chi^2/\text{NDF}$ : 48.6/36

Out:  $50.954 \pm 21.663$   $\chi^2/\text{NDF}$ : 40.5/39

All:  $51.368 \pm 15.676$   $\chi^2/\text{NDF}$ : 89.2/76

dit\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 101.519 $\pm$ 0.029  $\chi^2$ /NDF: 681713.7/16

Left Out: 103.796 $\pm$ 0.018  $\chi^2$ /NDF:1052977.4/21

Right Out: 98.537 $\pm$ 0.028  $\chi^2$ /NDF: 746979.4/17

Left In: 106.044 $\pm$ 0.019  $\chi^2$ /NDF:577422.7/19

Left: 104.864 $\pm$ 0.013  $\chi^2$ /NDF: 1637459.1/41

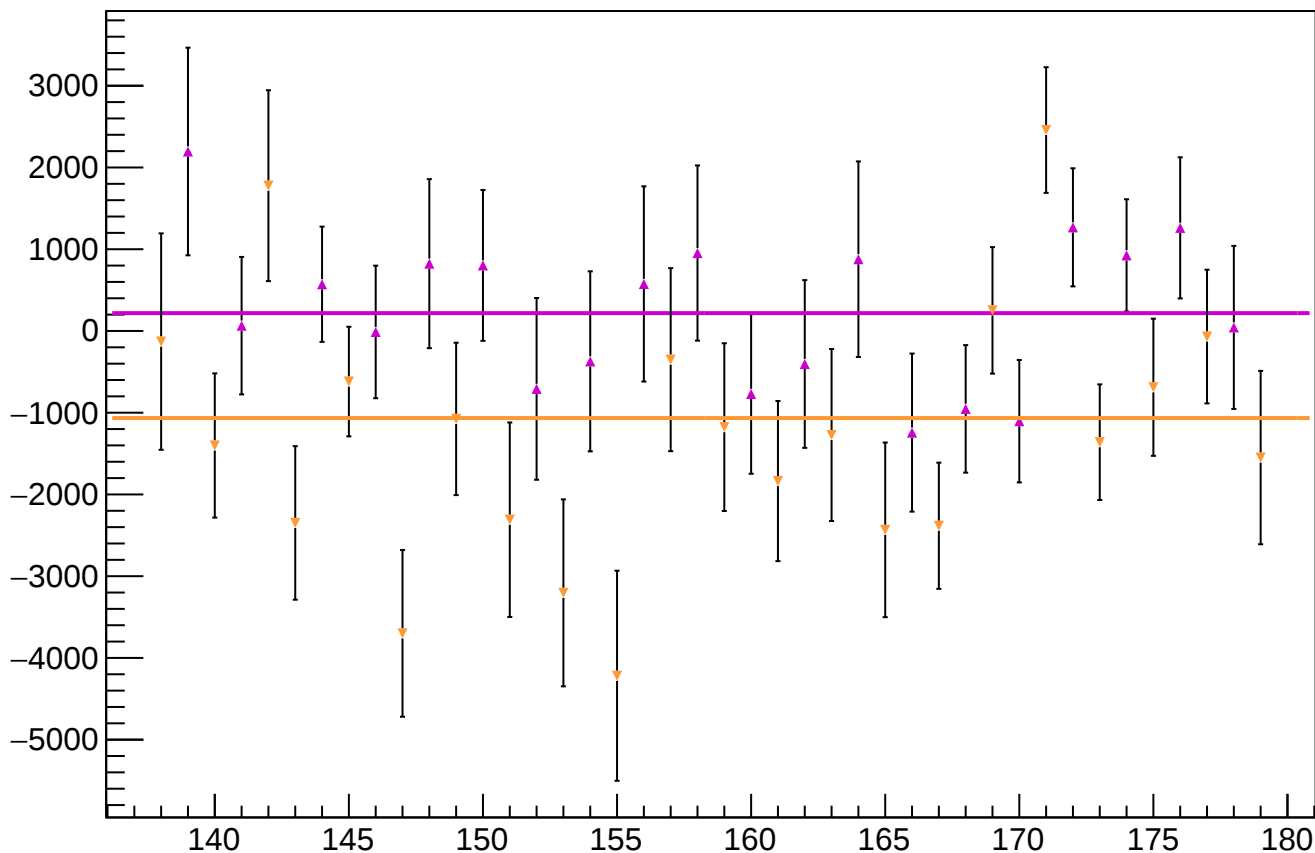
Right: 99.965 $\pm$ 0.020  $\chi^2$ /NDF: 1434328.3/34

In: 104.625 $\pm$ 0.016  $\chi^2$ /NDF:1276224.2/36

Out: 102.164 $\pm$ 0.015  $\chi^2$ /NDF:1825181.3/39

All: 103.336 $\pm$ 0.011  $\chi^2$ /NDF: 3113698.3/76

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: -1065.653+/-197.840  $\chi^2/\text{NDF}$ :57.8/21

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

Left In: 218.116+/-202.187  $\chi^2/\text{NDF}$ :19.1/19

Left: -437.718+/-141.406  $\chi^2/\text{NDF}$ : 97.5/41

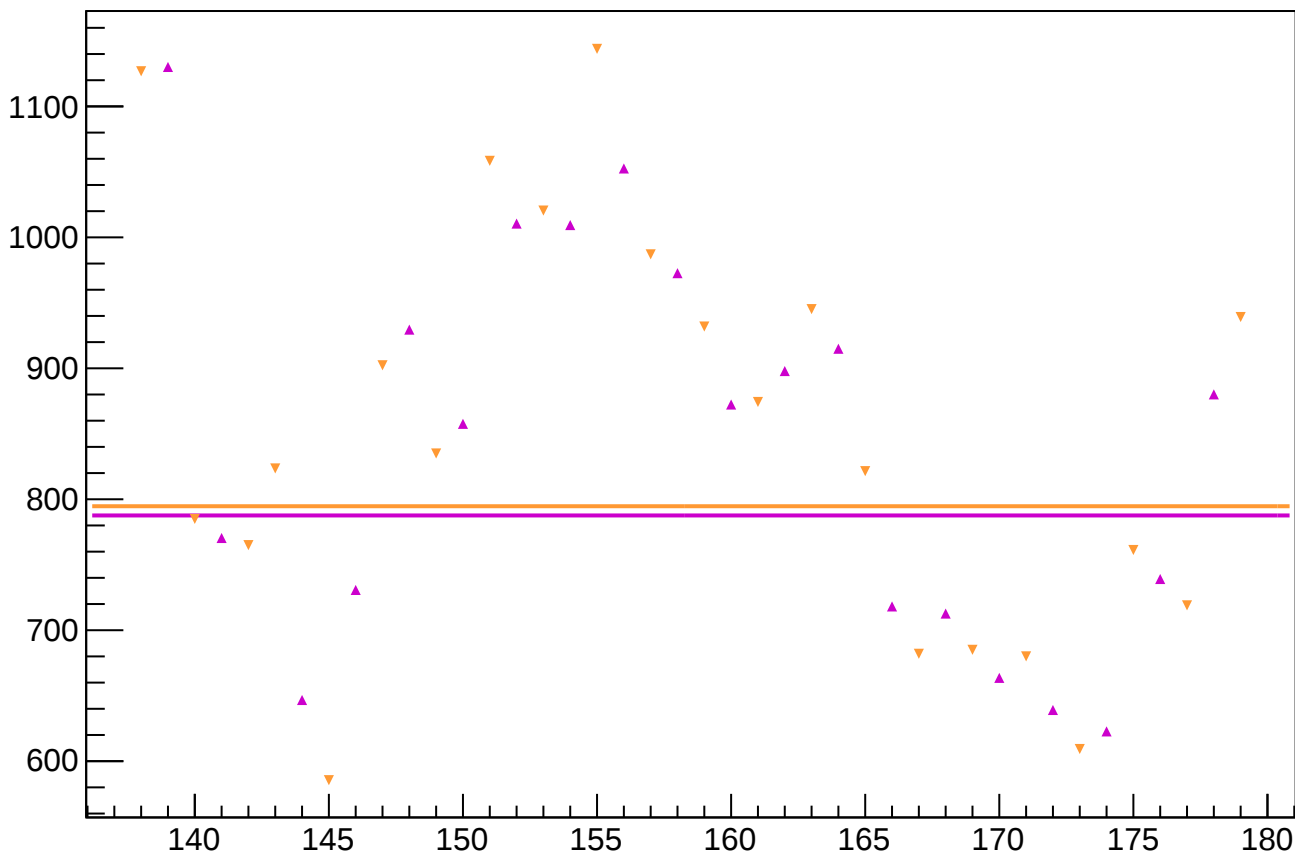
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 218.116+/-202.187  $\chi^2/\text{NDF}$ :19.1/19

Out: -1065.653+/-197.840  $\chi^2/\text{NDF}$ :57.8/21

All: -437.718+/-141.406  $\chi^2/\text{NDF}$ : 97.5/41

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: 794.683+/-0.140  $\chi^2/\text{NDF}$ :1146214.8/21

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

Left In: 787.639+/-0.143  $\chi^2/\text{NDF}$ :972648.8/19

Left: 791.238+/-0.100  $\chi^2/\text{NDF}$ : 2120103.6/41

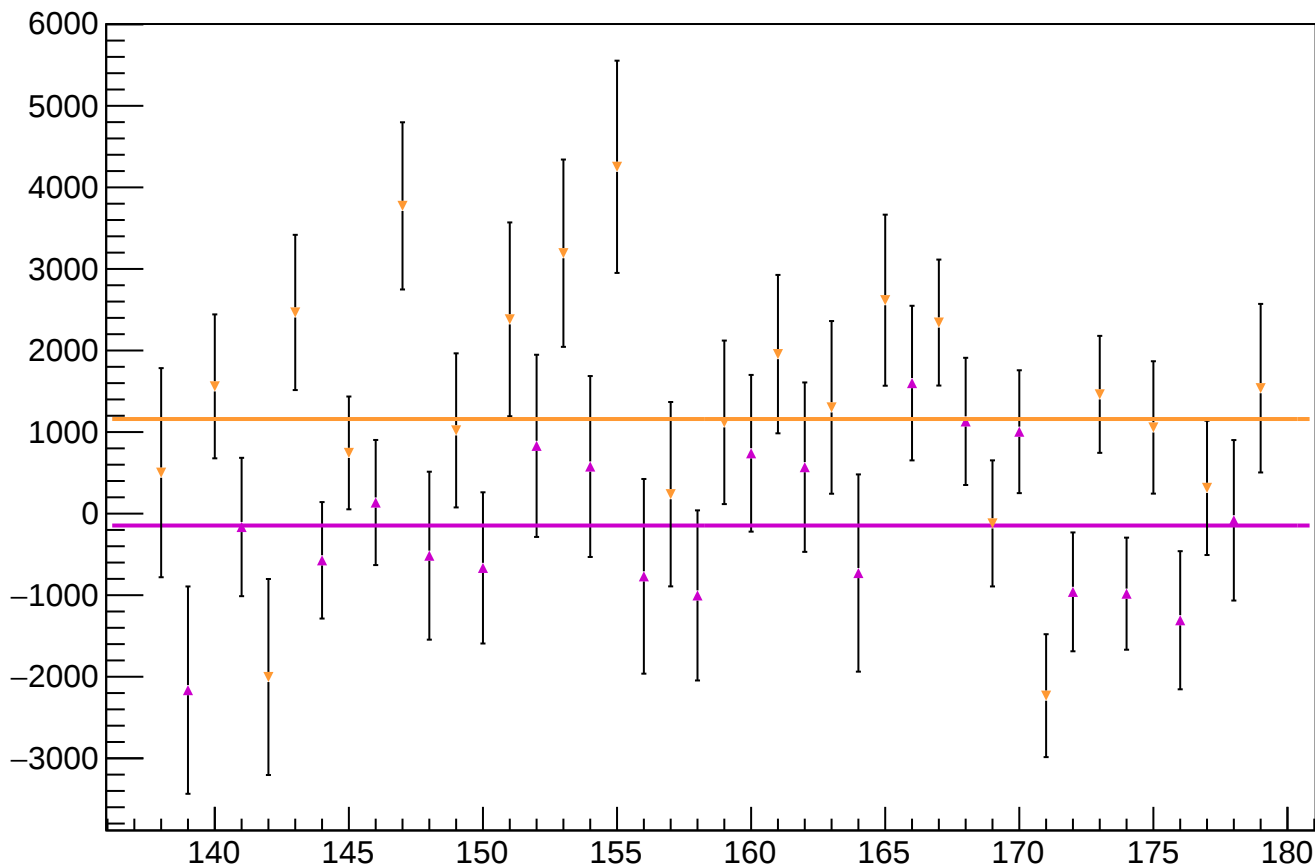
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 787.639+/-0.143  $\chi^2/\text{NDF}$ :972648.8/19

Out: 794.683+/-0.140  $\chi^2/\text{NDF}$ :1146214.8/21

All: 791.238+/-0.100  $\chi^2/\text{NDF}$ : 2120103.6/41

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1159.993+/-197.885  $\chi^2/\text{NDF}$ :56.0/21

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

Left In: -145.841+/-201.385  $\chi^2/\text{NDF}$ :20.2/19

Left: 518.520+/-141.147  $\chi^2/\text{NDF}$ : 97.6/41

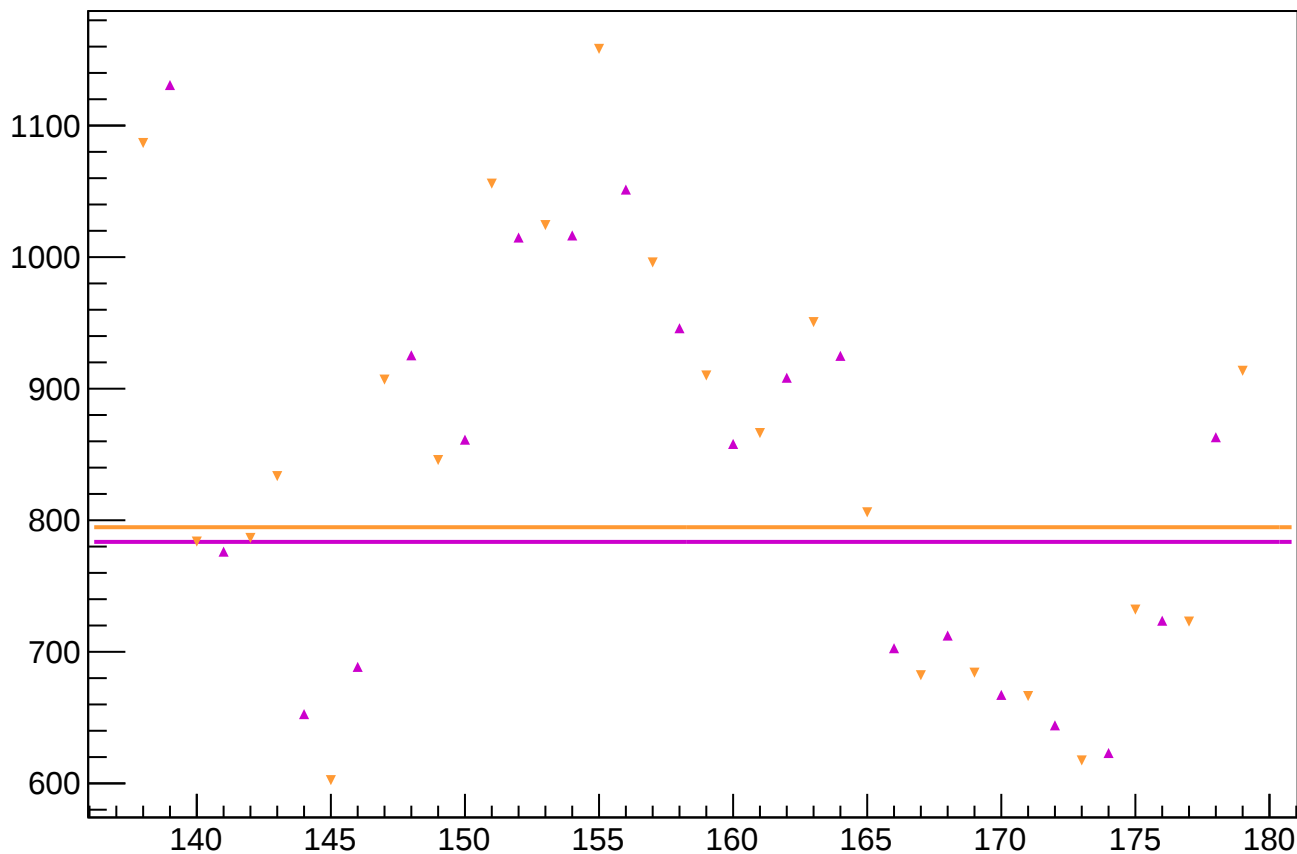
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -145.841+/-201.385  $\chi^2/\text{NDF}$ :20.2/19

Out: 1159.993+/-197.885  $\chi^2/\text{NDF}$ :56.0/21

All: 518.520+/-141.147  $\chi^2/\text{NDF}$ : 97.6/41

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 794.714+/-0.140  $\chi^2/\text{NDF}$ :1086089.7/21

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

Left In: 783.558+/-0.142  $\chi^2/\text{NDF}$ :974980.6/19

Left: 789.234+/-0.100  $\chi^2/\text{NDF}$ : 2064193.1/41

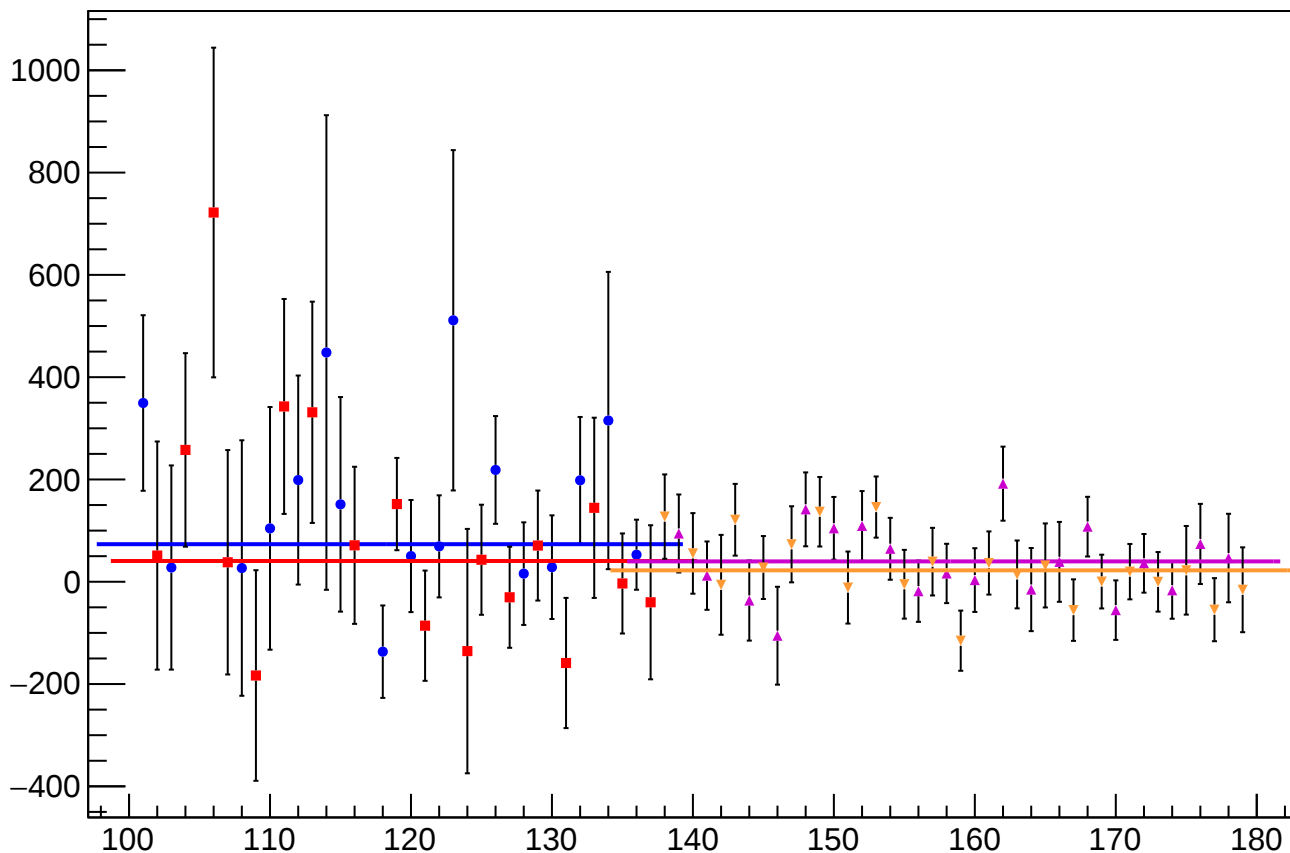
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 783.558+/-0.142  $\chi^2/\text{NDF}$ :974980.6/19

Out: 794.714+/-0.140  $\chi^2/\text{NDF}$ :1086089.7/21

All: 789.234+/-0.100  $\chi^2/\text{NDF}$ : 2064193.1/41

dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 73.448 $\pm$ 31.060  $\chi^2$ /NDF: 15.3/16

Left Out: 22.314 $\pm$ 14.212  $\chi^2$ /NDF: 21.2/21

Right Out: 40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

Left In: 39.790 $\pm$ 14.962  $\chi^2$ /NDF: 19.8/19

Left: 30.603 $\pm$ 10.305  $\chi^2$ /NDF: 41.8/41

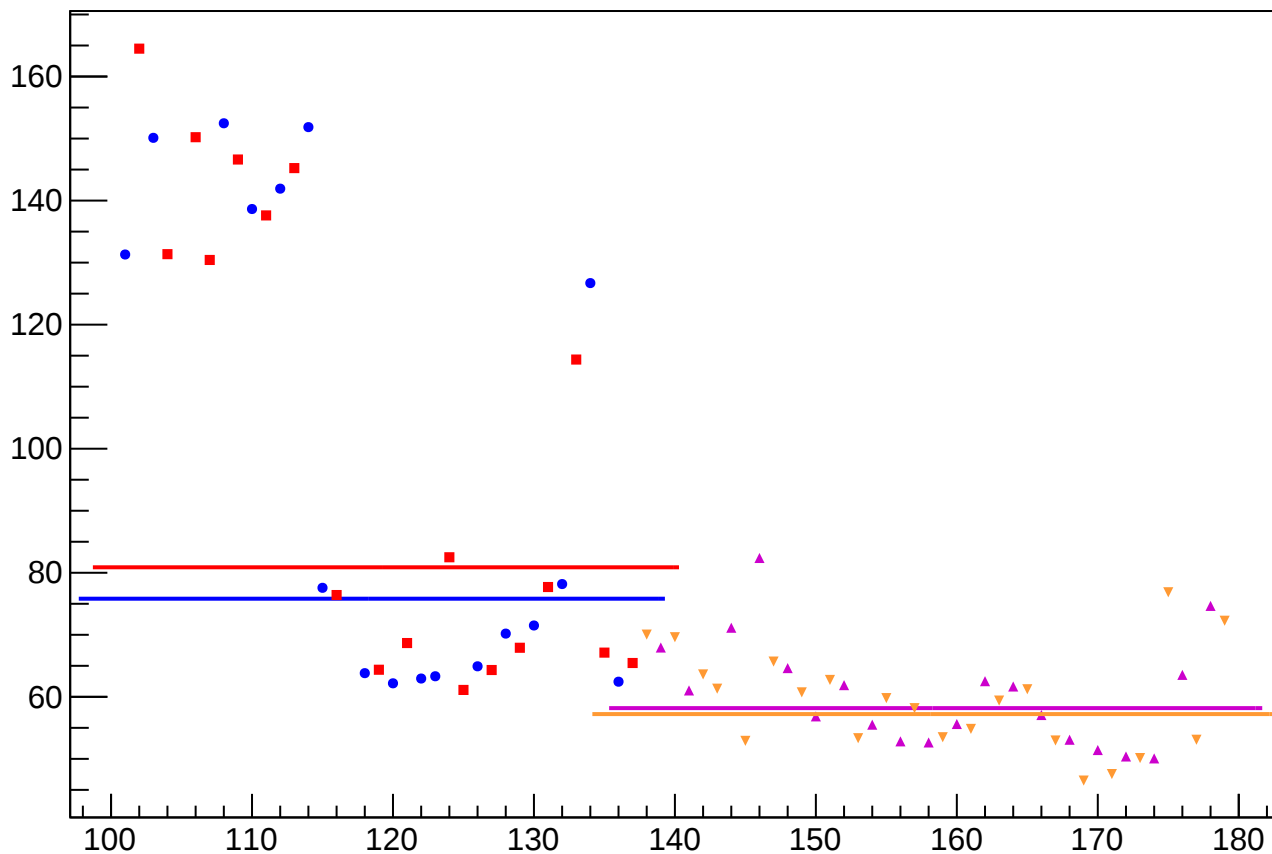
Right: 57.887 $\pm$ 22.535  $\chi^2$ /NDF: 34.0/34

In: 46.129 $\pm$ 13.480  $\chi^2$ /NDF: 36.1/36

Out: 25.212 $\pm$ 13.037  $\chi^2$ /NDF: 39.7/39

All: 35.322 $\pm$ 9.371  $\chi^2$ /NDF: 77.0/76

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 75.820 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 1349961.8/16

Left Out: 57.219 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 560282.7/21

Right Out: 80.881 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 1526044.5/17

Left In: 58.180 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 498307.2/19

Left: 57.675 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1062931.3/41

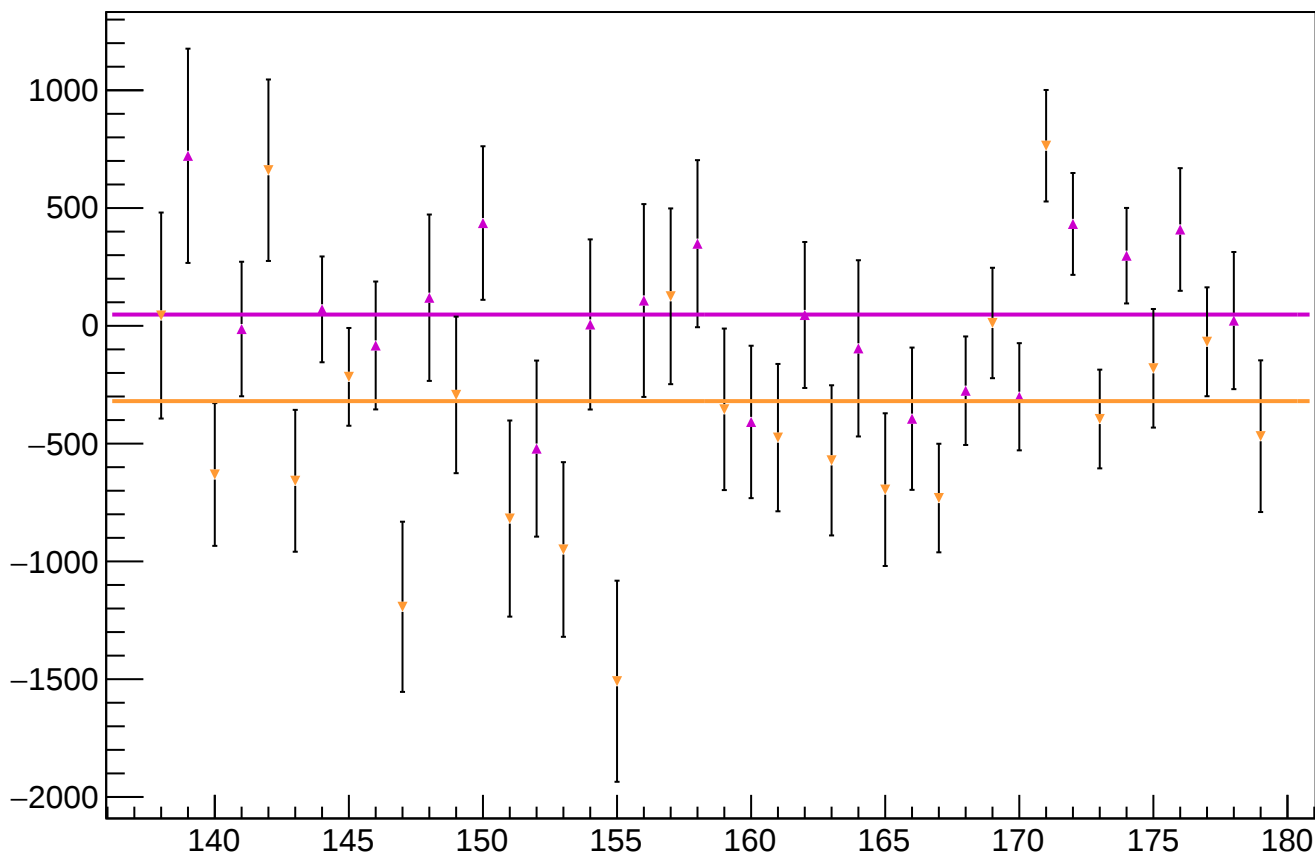
Right: 78.217 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 2901160.0/34

In: 61.502 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 2371837.9/36

Out: 60.970 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 2965186.7/39

All: 61.227 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 5338637.8/76

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: -319.610+/-62.083  $\chi^2/\text{NDF}$ :59.3/21

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

Left In: 47.867+/-63.861  $\chi^2/\text{NDF}$ :22.2/19

Left: -141.058+/-44.515  $\chi^2/\text{NDF}$ : 98.6/41

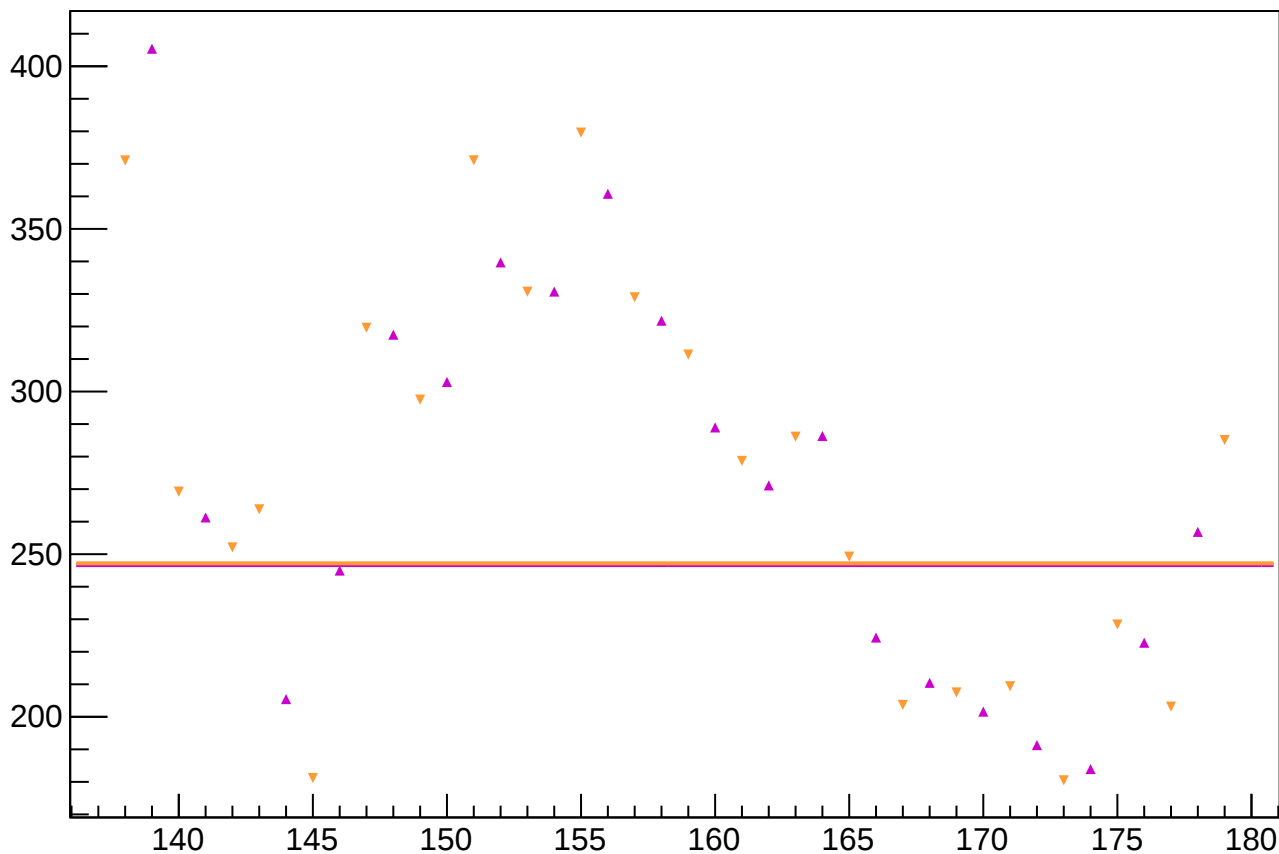
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 47.867+/-63.861  $\chi^2/\text{NDF}$ :22.2/19

Out: -319.610+/-62.083  $\chi^2/\text{NDF}$ :59.3/21

All: -141.058+/-44.515  $\chi^2/\text{NDF}$ : 98.6/41

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: 247.184+/-0.044  $\chi^2/\text{NDF}$ :1687451.7/21

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

Left In: 246.655+/-0.045  $\chi^2/\text{NDF}$ :1483890.0/19

Left: 246.927+/-0.031  $\chi^2/\text{NDF}$ : 3171412.3/41

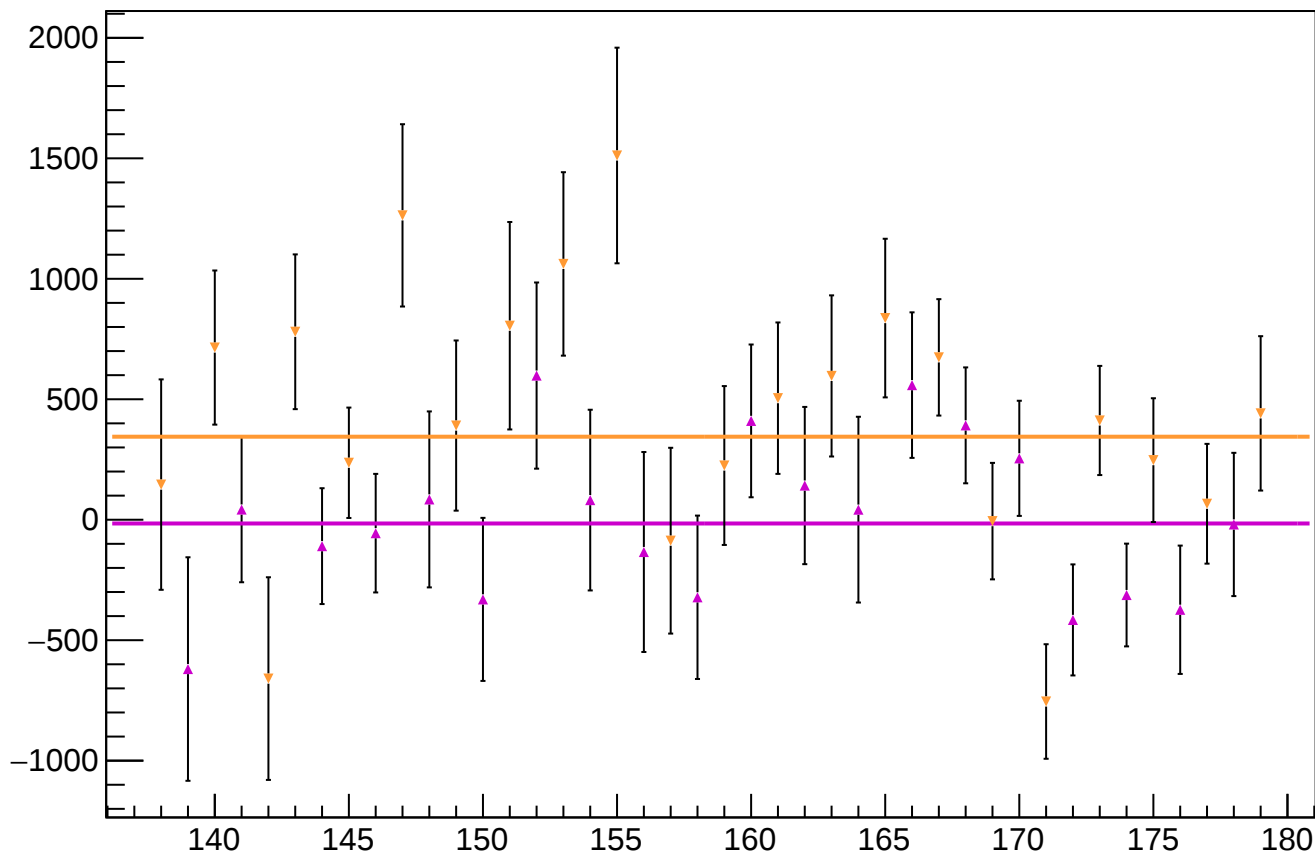
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 246.655+/-0.045  $\chi^2/\text{NDF}$ :1483890.0/19

Out: 247.184+/-0.044  $\chi^2/\text{NDF}$ :1687451.7/21

All: 246.927+/-0.031  $\chi^2/\text{NDF}$ : 3171412.3/41

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 344.596+/-64.760  $\chi^2/\text{NDF}$ :58.1/21

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

Left In: -15.580+/-65.646  $\chi^2/\text{NDF}$ :22.9/19

Left: 166.956+/-46.102  $\chi^2/\text{NDF}$ : 96.3/41

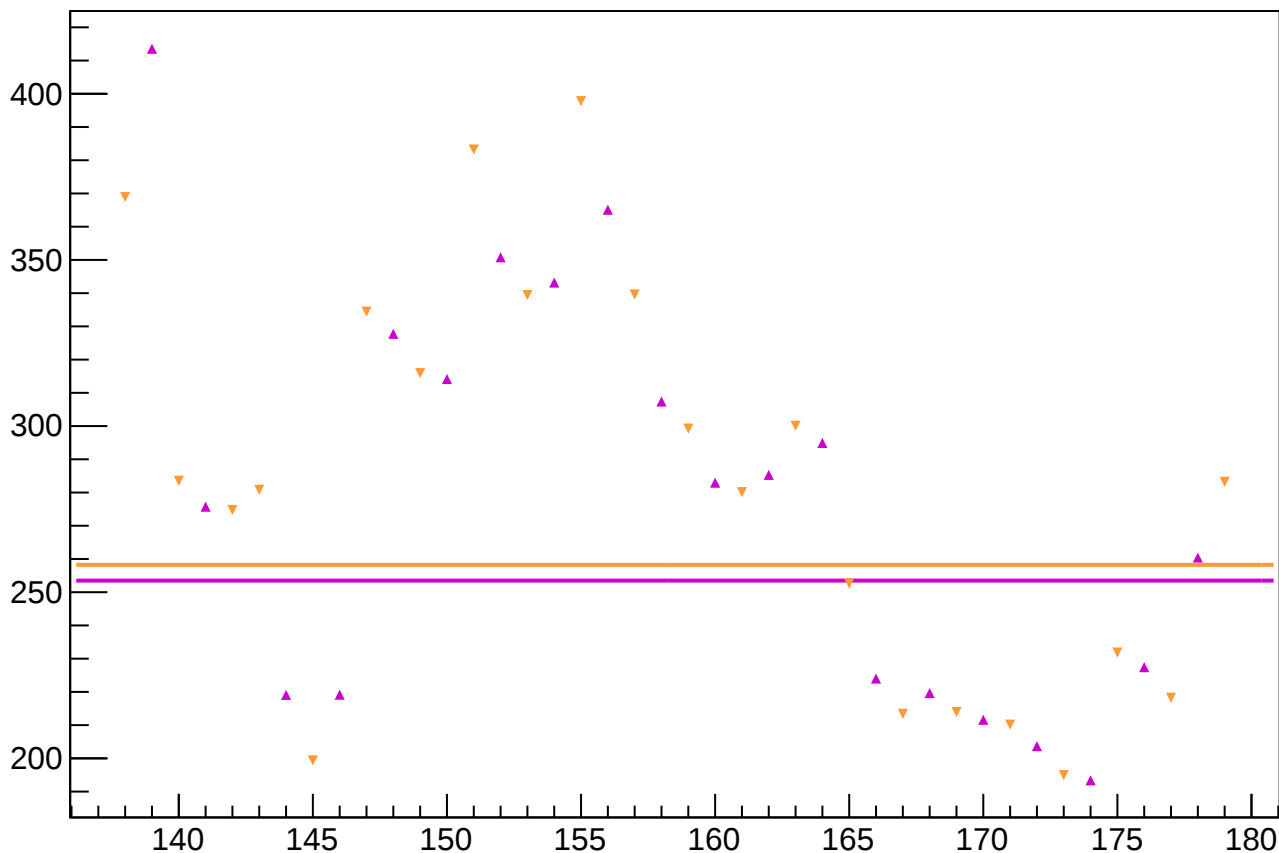
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.580+/-65.646  $\chi^2/\text{NDF}$ :22.9/19

Out: 344.596+/-64.760  $\chi^2/\text{NDF}$ :58.1/21

All: 166.956+/-46.102  $\chi^2/\text{NDF}$ : 96.3/41

asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 258.233+/-0.046  $\chi^2/\text{NDF}$ :1495029.4/21

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

Left In: 253.497+/-0.046  $\chi^2/\text{NDF}$ :1364396.1/19

Left: 255.897+/-0.033  $\chi^2/\text{NDF}$ : 2864700.1/41

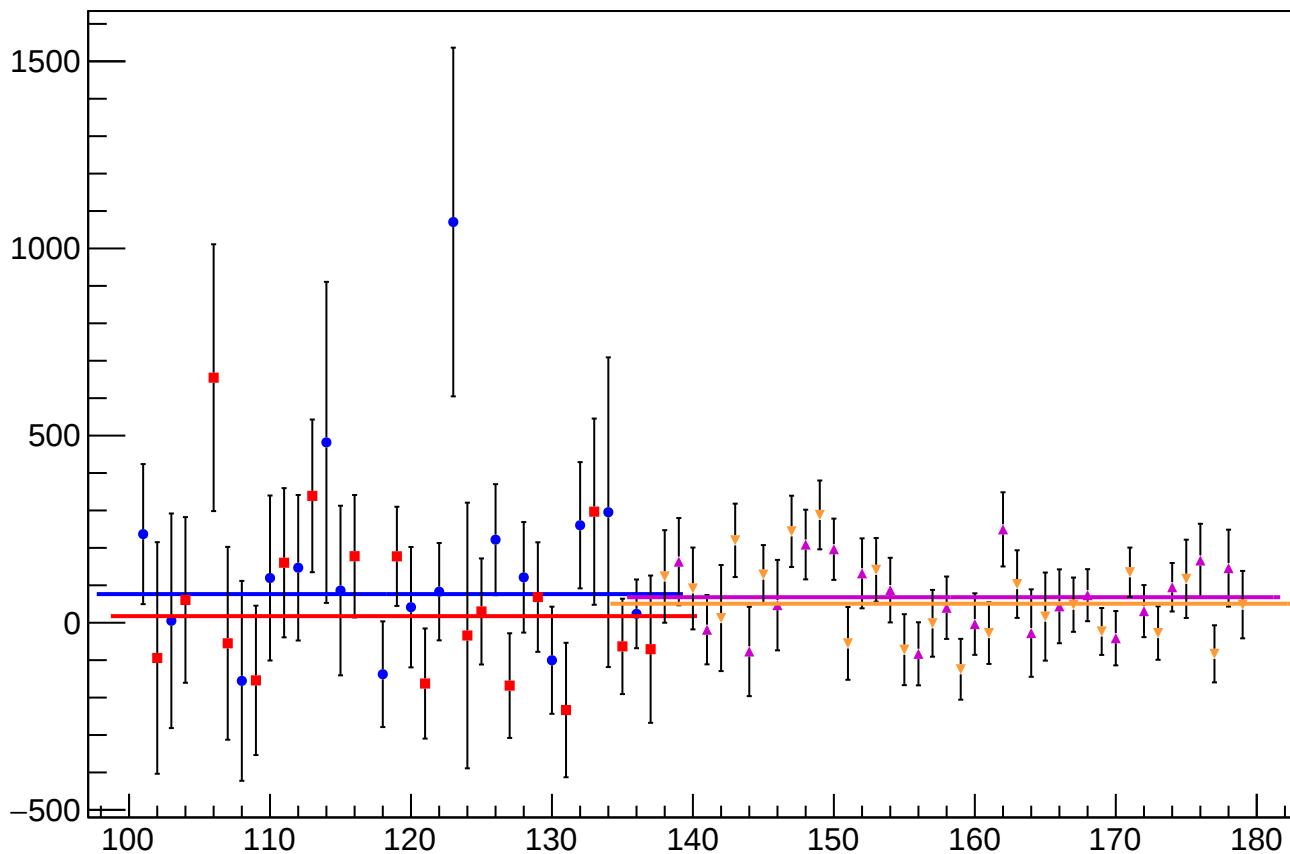
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 253.497+/-0.046  $\chi^2/\text{NDF}$ :1364396.1/19

Out: 258.233+/-0.046  $\chi^2/\text{NDF}$ :1495029.4/21

All: 255.897+/-0.033  $\chi^2/\text{NDF}$ : 2864700.1/41

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 76.503 $\pm$ 41.558  $\chi^2/\text{NDF}$ : 13.9/16

Left Out: 50.835 $\pm$ 18.490  $\chi^2/\text{NDF}$ :33.3/21

Right Out: 17.605 $\pm$ 42.297  $\chi^2/\text{NDF}$ : 16.8/17

Left In: 68.206 $\pm$ 19.637  $\chi^2/\text{NDF}$ :20.8/19

Left: 58.999 $\pm$ 13.462  $\chi^2/\text{NDF}$ : 54.5/41

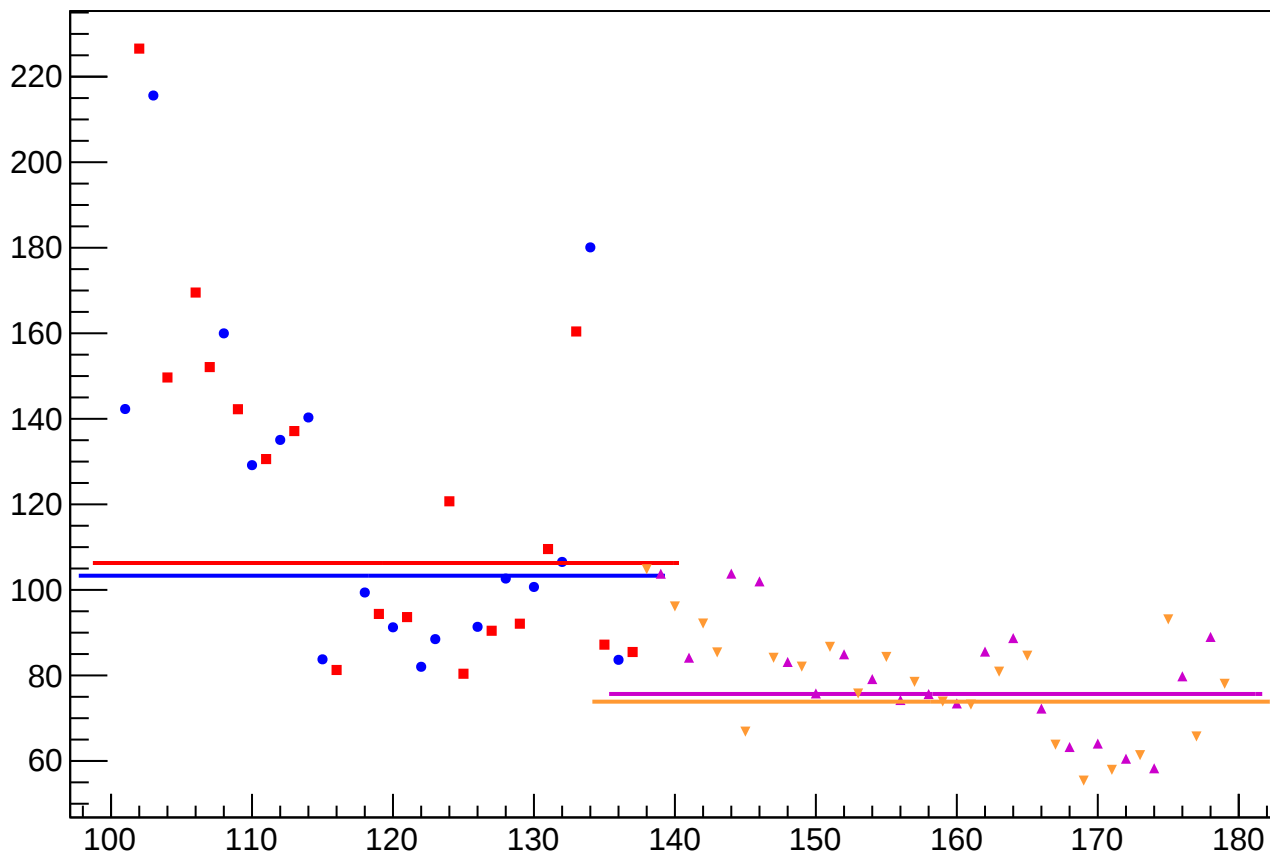
Right: 47.573 $\pm$ 29.644  $\chi^2/\text{NDF}$ : 31.7/34

In: 69.720 $\pm$ 17.754  $\chi^2/\text{NDF}$ :34.7/36

Out: 45.504 $\pm$ 16.942  $\chi^2/\text{NDF}$ :50.7/39

All: 57.045 $\pm$ 12.257  $\chi^2/\text{NDF}$ : 86.4/76

dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 73.868 $\pm$ 0.013  $\chi^2$ /NDF: 903662.9/21

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

Left In: 75.666 $\pm$ 0.014  $\chi^2$ /NDF: 814983.9/19

Left: 74.713 $\pm$ 0.010  $\chi^2$ /NDF: 1727535.7/41

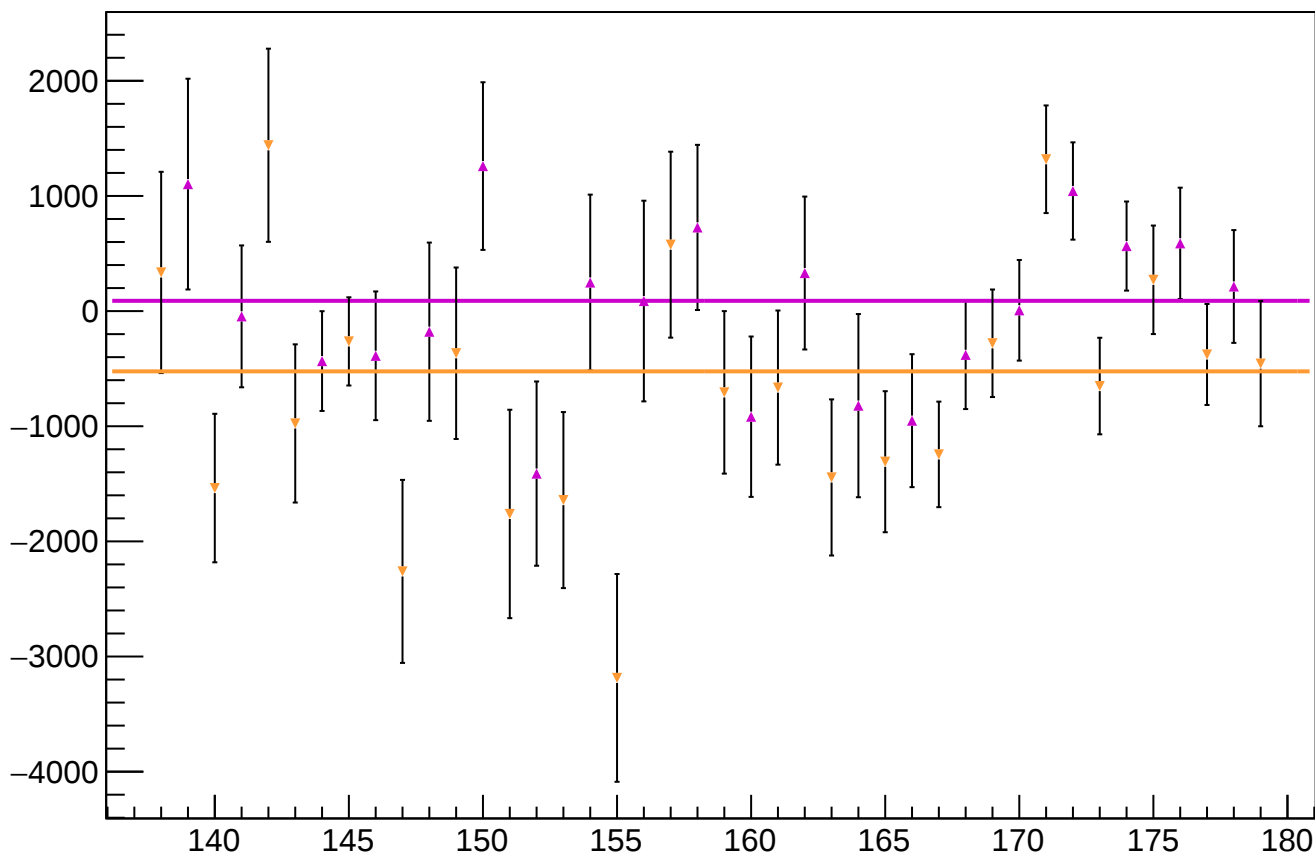
Right: 104.777 $\pm$ 0.021  $\chi^2$ /NDF: 1843531.0/34

In: 80.713 $\pm$ 0.013  $\chi^2$ /NDF: 2376632.6/36

Out: 79.069 $\pm$ 0.012  $\chi^2$ /NDF: 2890890.9/39

All: 79.853 $\pm$ 0.009  $\chi^2$ /NDF: 5276495.4/76

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: -523.344+/-124.108  $\chi^2/\text{NDF}$ :54.2/21

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

Left In: 89.286+/-127.164  $\chi^2/\text{NDF}$ :26.1/19

Left: -224.480+/-88.818  $\chi^2/\text{NDF}$ : 92.1/41

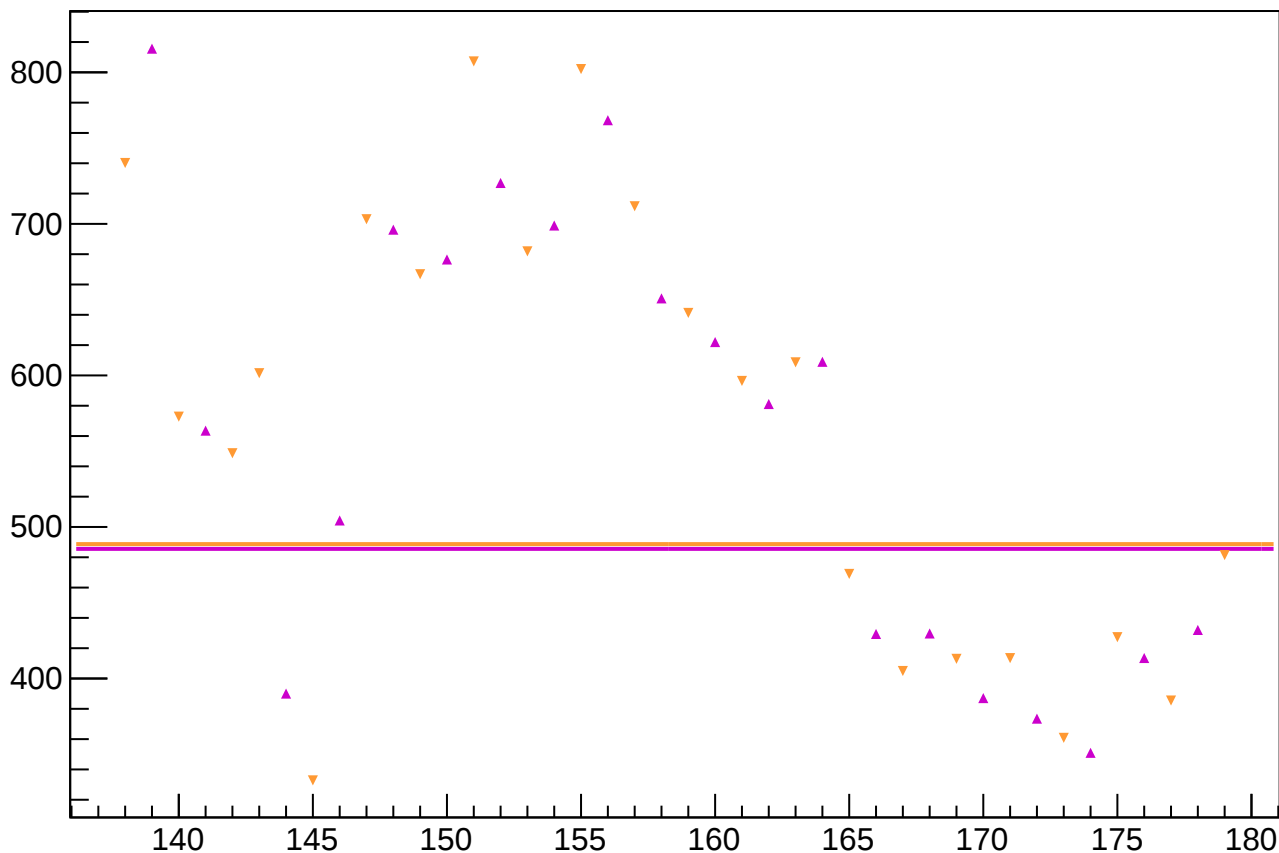
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 89.286+/-127.164  $\chi^2/\text{NDF}$ :26.1/19

Out: -523.344+/-124.108  $\chi^2/\text{NDF}$ :54.2/21

All: -224.480+/-88.818  $\chi^2/\text{NDF}$ : 92.1/41

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: 488.694+/-0.088  $\chi^2/\text{NDF}$ :2336340.4/21

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

Left In: 485.543+/-0.090  $\chi^2/\text{NDF}$ :2098450.1/19

Left: 487.157+/-0.063  $\chi^2/\text{NDF}$ : 4435419.7/41

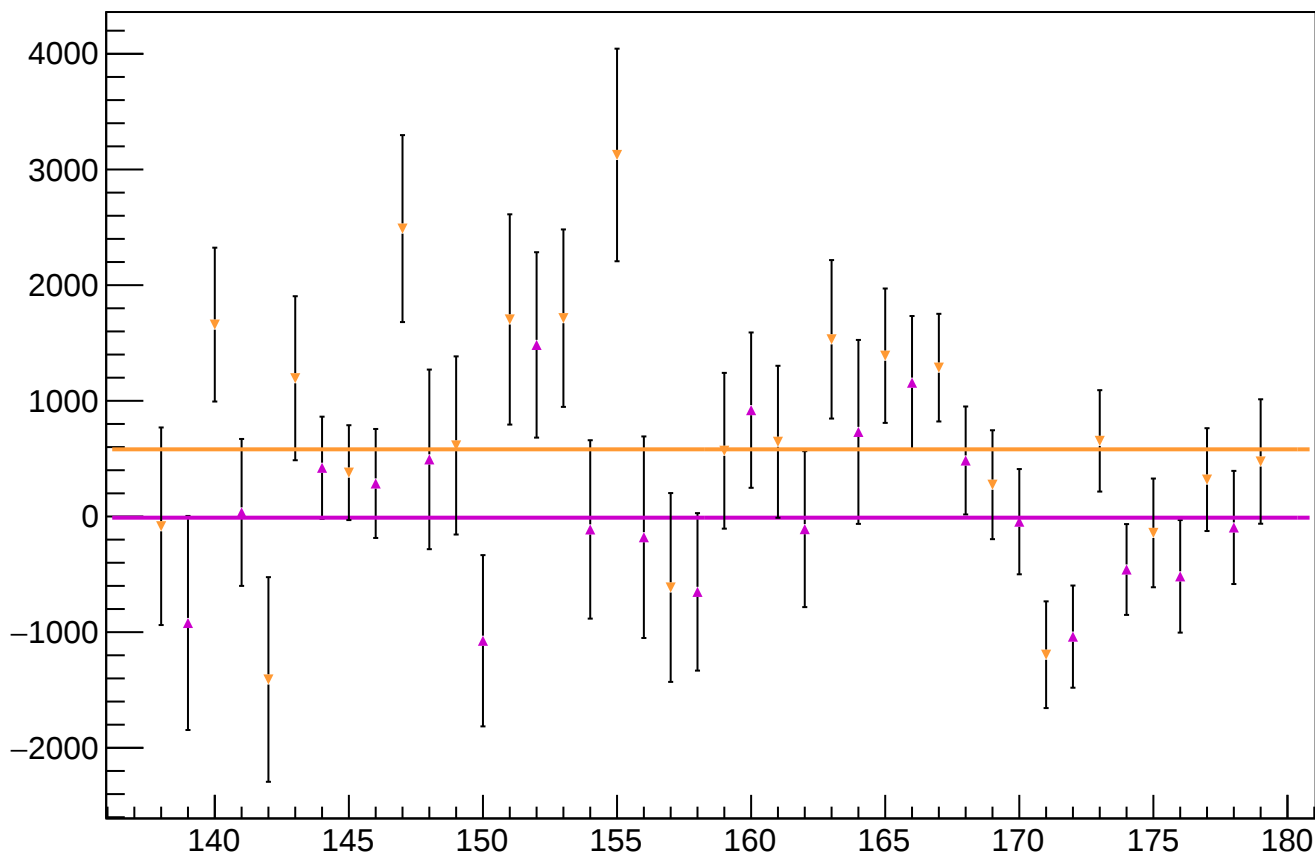
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 485.543+/-0.090  $\chi^2/\text{NDF}$ :2098450.1/19

Out: 488.694+/-0.088  $\chi^2/\text{NDF}$ :2336340.4/21

All: 487.157+/-0.063  $\chi^2/\text{NDF}$ : 4435419.7/41

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 580.656+/-125.641  $\chi^2/\text{NDF}$ :52.6/21

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

Left In: -10.300+/-127.081  $\chi^2/\text{NDF}$ :25.1/19

Left: 288.545+/-89.347  $\chi^2/\text{NDF}$ : 88.6/41

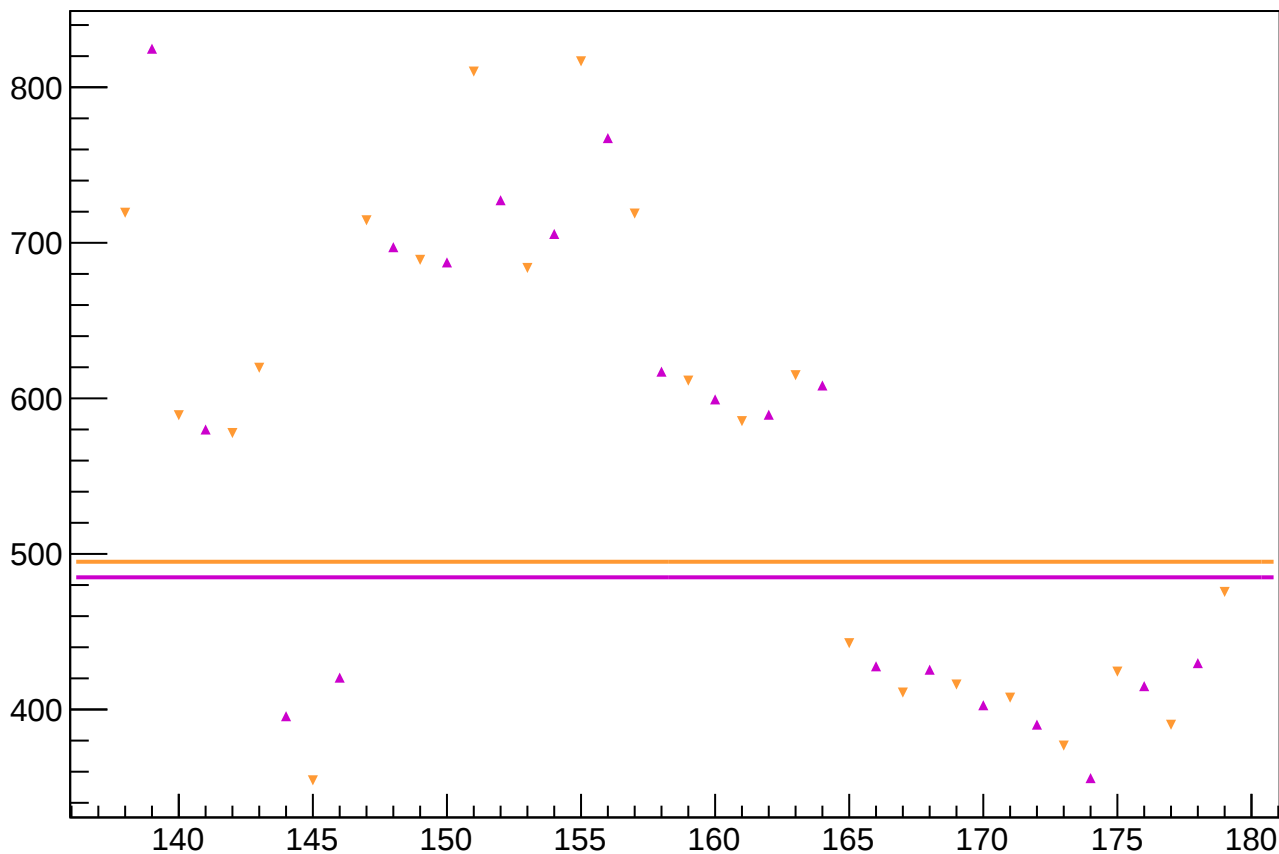
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -10.300+/-127.081  $\chi^2/\text{NDF}$ :25.1/19

Out: 580.656+/-125.641  $\chi^2/\text{NDF}$ :52.6/21

All: 288.545+/-89.347  $\chi^2/\text{NDF}$ : 88.6/41

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 494.973+/-0.089  $\chi^2/\text{NDF}$ :2196660.9/21

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

Left In: 484.963+/-0.090  $\chi^2/\text{NDF}$ :2011511.7/19

Left: 490.025+/-0.063  $\chi^2/\text{NDF}$ : 4214448.2/41

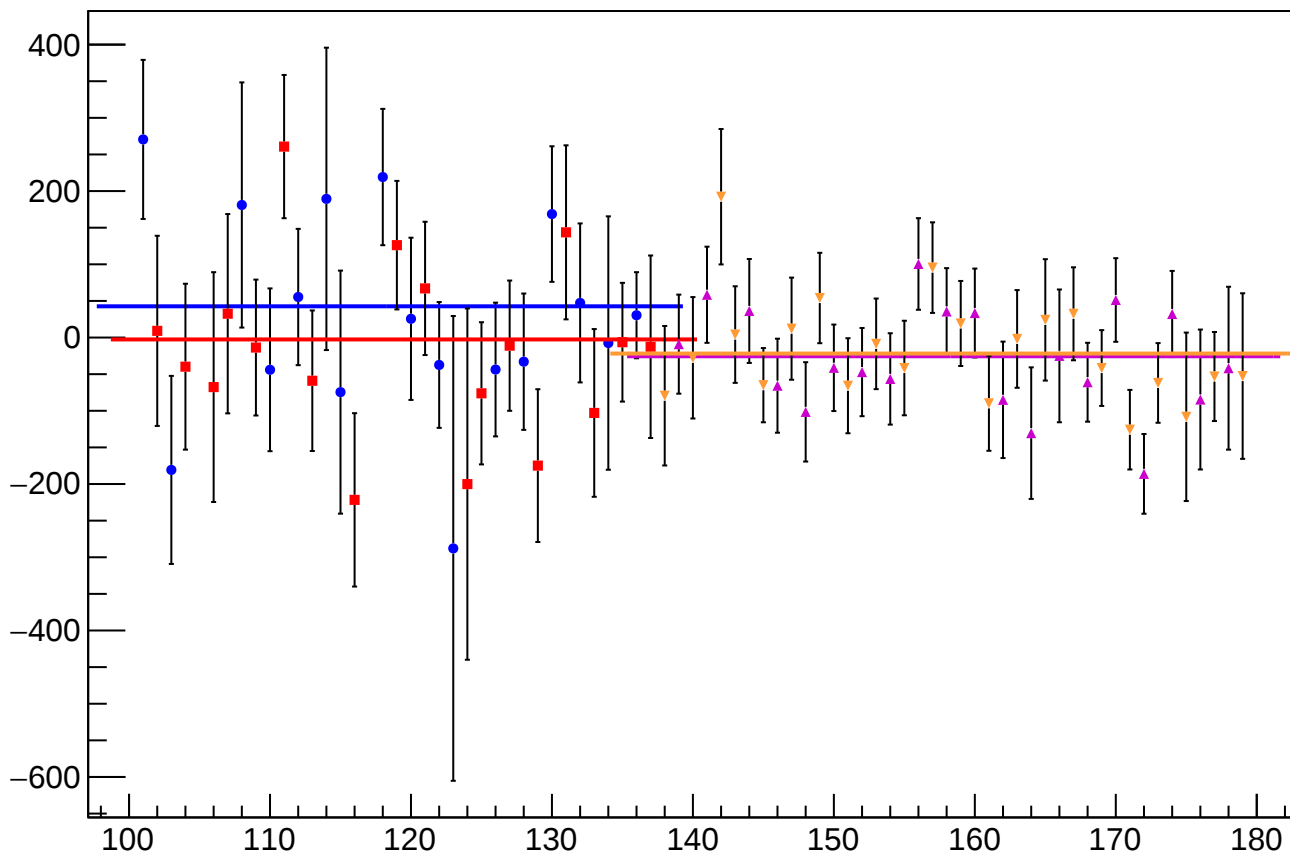
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 484.963+/-0.090  $\chi^2/\text{NDF}$ :2011511.7/19

Out: 494.973+/-0.089  $\chi^2/\text{NDF}$ :2196660.9/21

All: 490.025+/-0.063  $\chi^2/\text{NDF}$ : 4214448.2/41

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 42.654+/-25.486  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: -21.860+/-14.018  $\chi^2/\text{NDF}$ : 20.5/21

Right Out: -2.576+/-25.088  $\chi^2/\text{NDF}$ : 20.4/17

Left In: -25.534+/-14.720  $\chi^2/\text{NDF}$ : 24.9/19

Left: -23.608+/-10.152  $\chi^2/\text{NDF}$ : 45.5/41

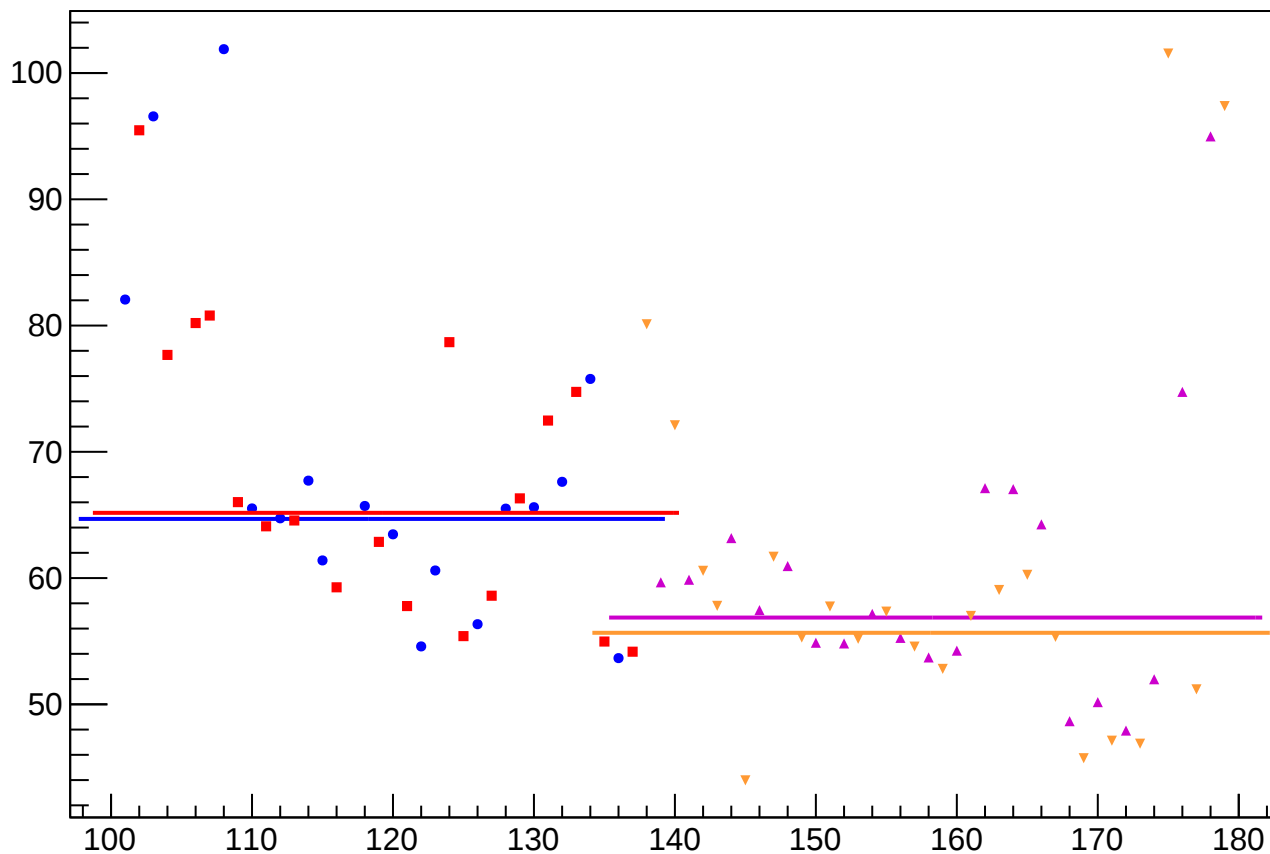
Right: 19.683+/-17.879  $\chi^2/\text{NDF}$ : 40.9/34

In: -8.477+/-12.747  $\chi^2/\text{NDF}$ : 49.1/36

Out: -17.272+/-12.238  $\chi^2/\text{NDF}$ : 41.4/39

All: -13.053+/-8.828  $\chi^2/\text{NDF}$ : 90.7/76

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 64.685 $\pm$ 0.018  $\chi^2$ /NDF: 400187.1/16

Left Out: 55.665 $\pm$ 0.010  $\chi^2$ /NDF:1137577.6/21

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

Left In: 56.872 $\pm$ 0.010  $\chi^2$ /NDF:565114.9/19

Left: 56.239 $\pm$ 0.007  $\chi^2$ /NDF: 1709740.5/41

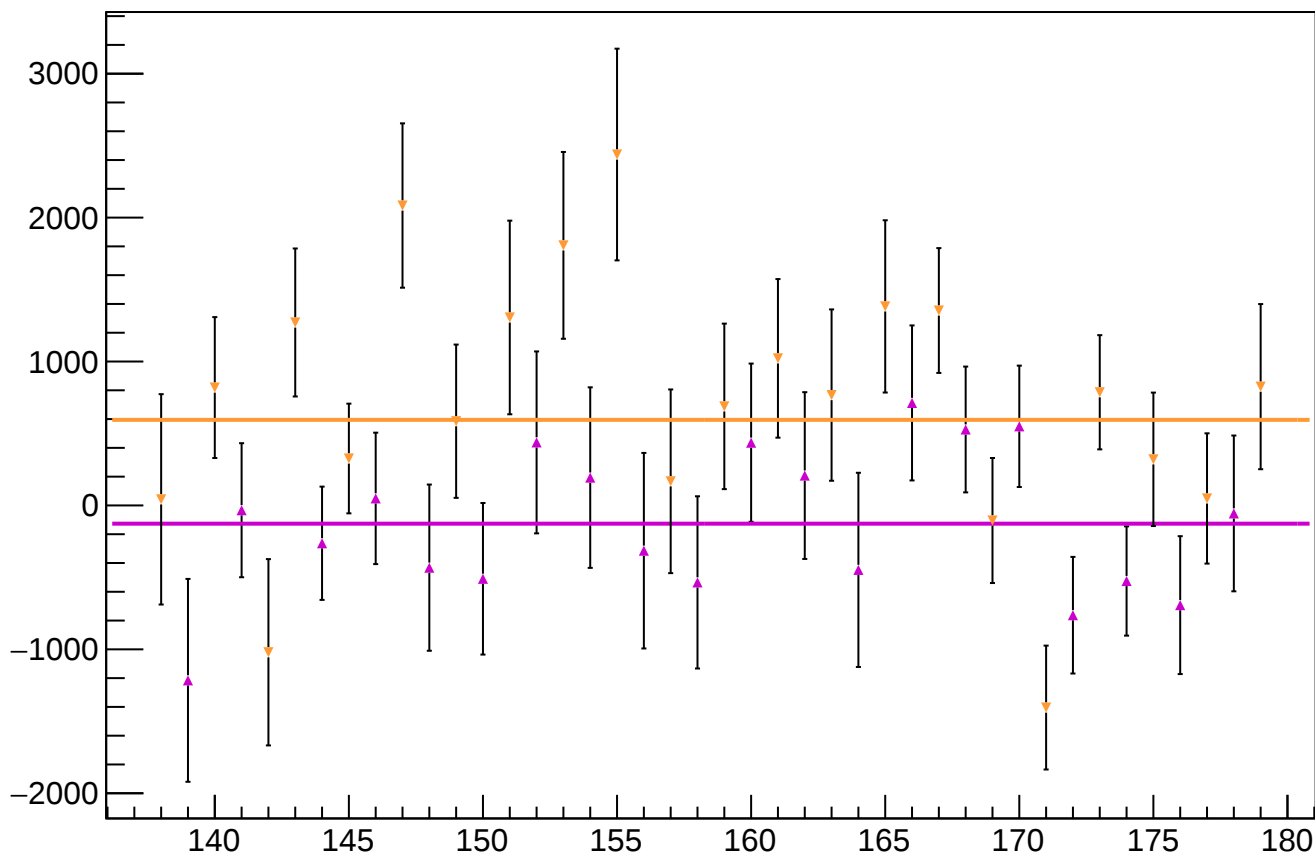
Right: 64.930 $\pm$ 0.013  $\chi^2$ /NDF: 705130.8/34

In: 58.827 $\pm$ 0.009  $\chi^2$ /NDF:1106257.6/36

Out: 57.926 $\pm$ 0.009  $\chi^2$ /NDF:1660787.8/39

All: 58.358 $\pm$ 0.006  $\chi^2$ /NDF: 2772238.7/76

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: 594.615+/-110.806  $\chi^2/\text{NDF}$ : 59.3/21

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

Left In: -126.730+/-113.177  $\chi^2/\text{NDF}$ : 18.9/19

Left: 241.577+/-79.177  $\chi^2/\text{NDF}$ : 98.9/41

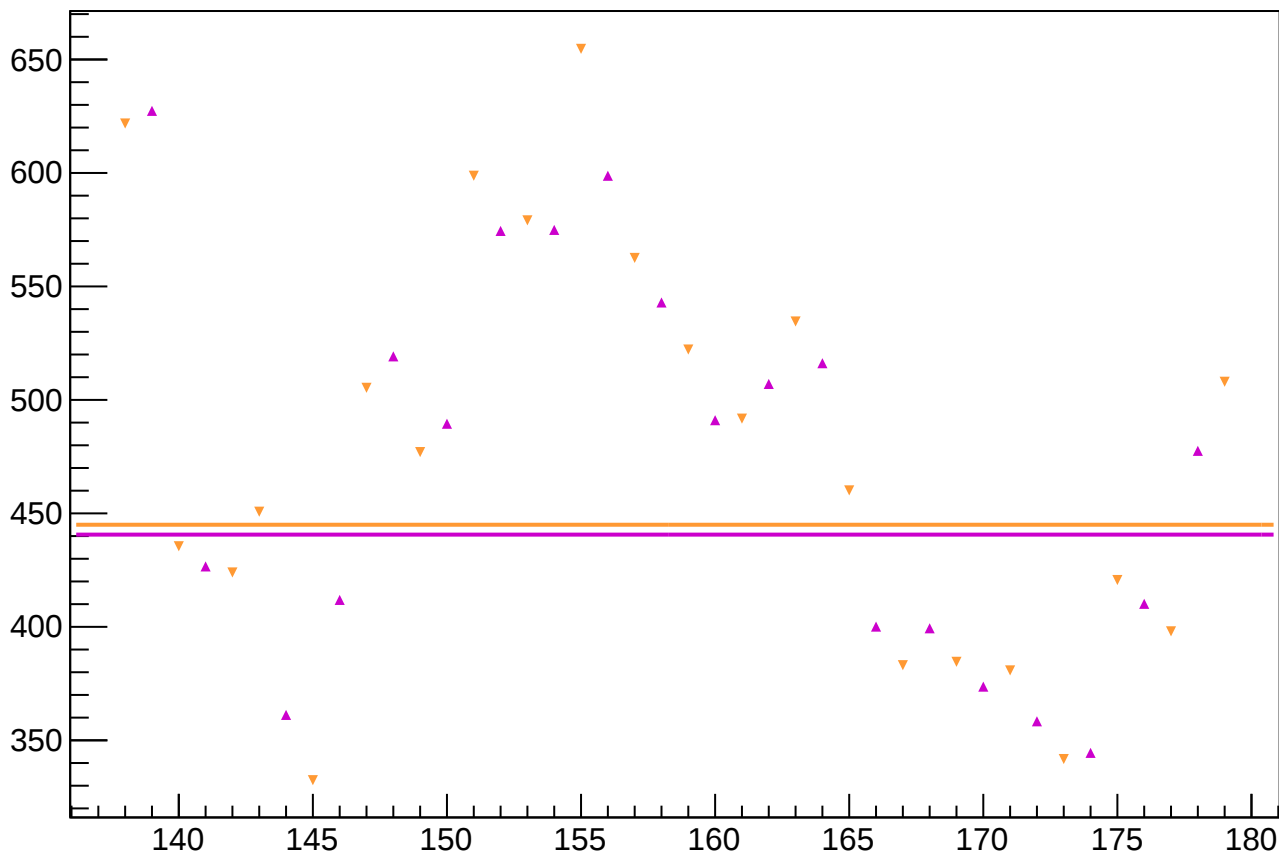
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -126.730+/-113.177  $\chi^2/\text{NDF}$ : 18.9/19

Out: 594.615+/-110.806  $\chi^2/\text{NDF}$ : 59.3/21

All: 241.577+/-79.177  $\chi^2/\text{NDF}$ : 98.9/41

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: 444.995+/-0.078  $\chi^2/\text{NDF}$ :1151941.0/21

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

Left In: 440.640+/-0.080  $\chi^2/\text{NDF}$ :1009785.1/19

Left: 442.864+/-0.056  $\chi^2/\text{NDF}$ : 2163238.0/41

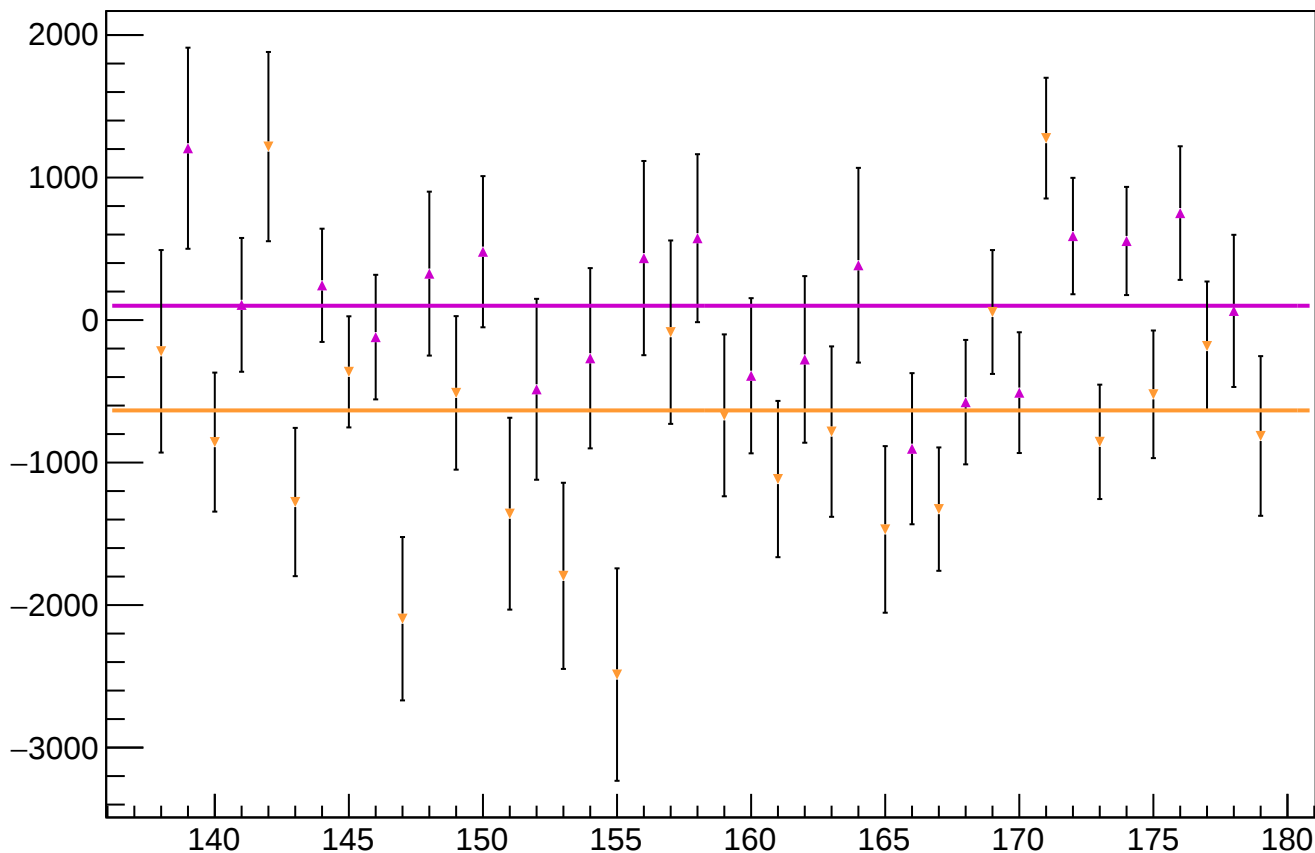
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 440.640+/-0.080  $\chi^2/\text{NDF}$ :1009785.1/19

Out: 444.995+/-0.078  $\chi^2/\text{NDF}$ :1151941.0/21

All: 442.864+/-0.056  $\chi^2/\text{NDF}$ : 2163238.0/41

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: -634.072+/-110.711  $\chi^2/\text{NDF}$ :57.9/21

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

Left In: 100.404+/-112.858  $\chi^2/\text{NDF}$ :19.8/19

Left: -273.885+/-79.033  $\chi^2/\text{NDF}$ : 99.3/41

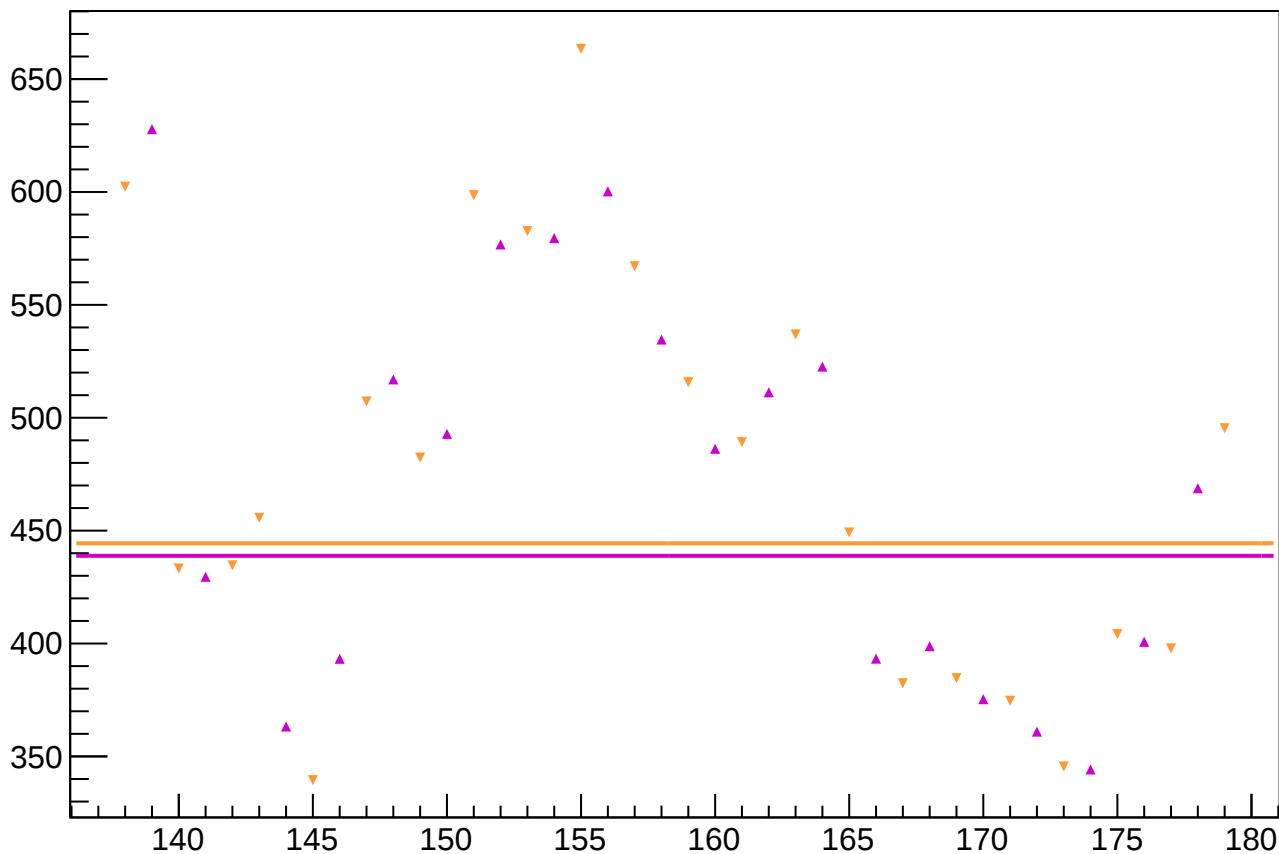
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 100.404+/-112.858  $\chi^2/\text{NDF}$ :19.8/19

Out: -634.072+/-110.711  $\chi^2/\text{NDF}$ :57.9/21

All: -273.885+/-79.033  $\chi^2/\text{NDF}$ : 99.3/41

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: 444.397+/-0.078  $\chi^2/\text{NDF}$ :1120952.6/21

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

Left In: 438.851+/-0.080  $\chi^2/\text{NDF}$ :1023509.5/19

Left: 441.677+/-0.056  $\chi^2/\text{NDF}$ : 2146922.9/41

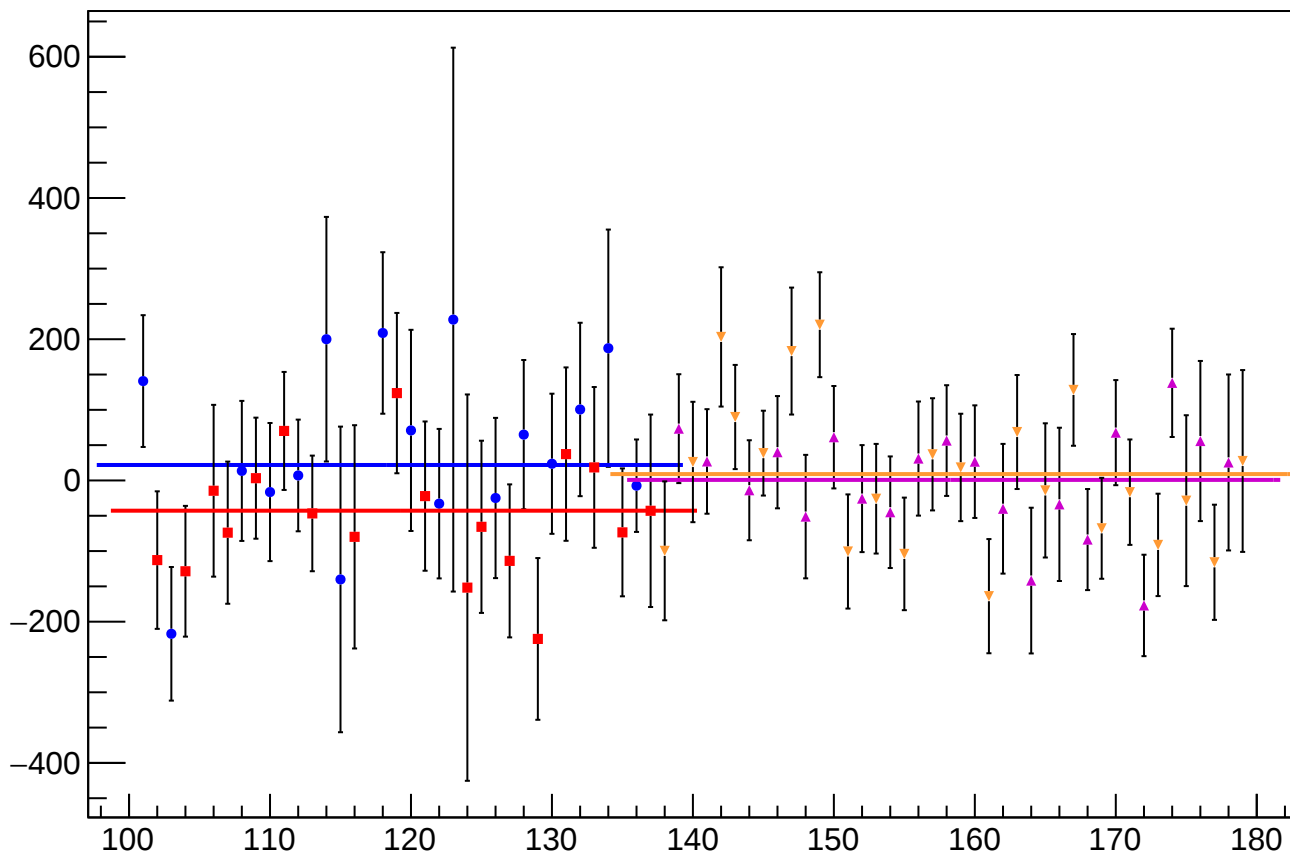
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 438.851+/-0.080  $\chi^2/\text{NDF}$ :1023509.5/19

Out: 444.397+/-0.078  $\chi^2/\text{NDF}$ :1120952.6/21

All: 441.677+/-0.056  $\chi^2/\text{NDF}$ : 2146922.9/41

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 21.908 $\pm$ 26.055  $\chi^2$ /NDF: 15.1/16

Left Out: 9.023 $\pm$ 17.307  $\chi^2$ /NDF:35.7/21

Right Out: -42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

Left In: 0.774 $\pm$ 18.208  $\chi^2$ /NDF:17.6/19

Left: 5.108 $\pm$ 12.544  $\chi^2$ /NDF: 53.4/41

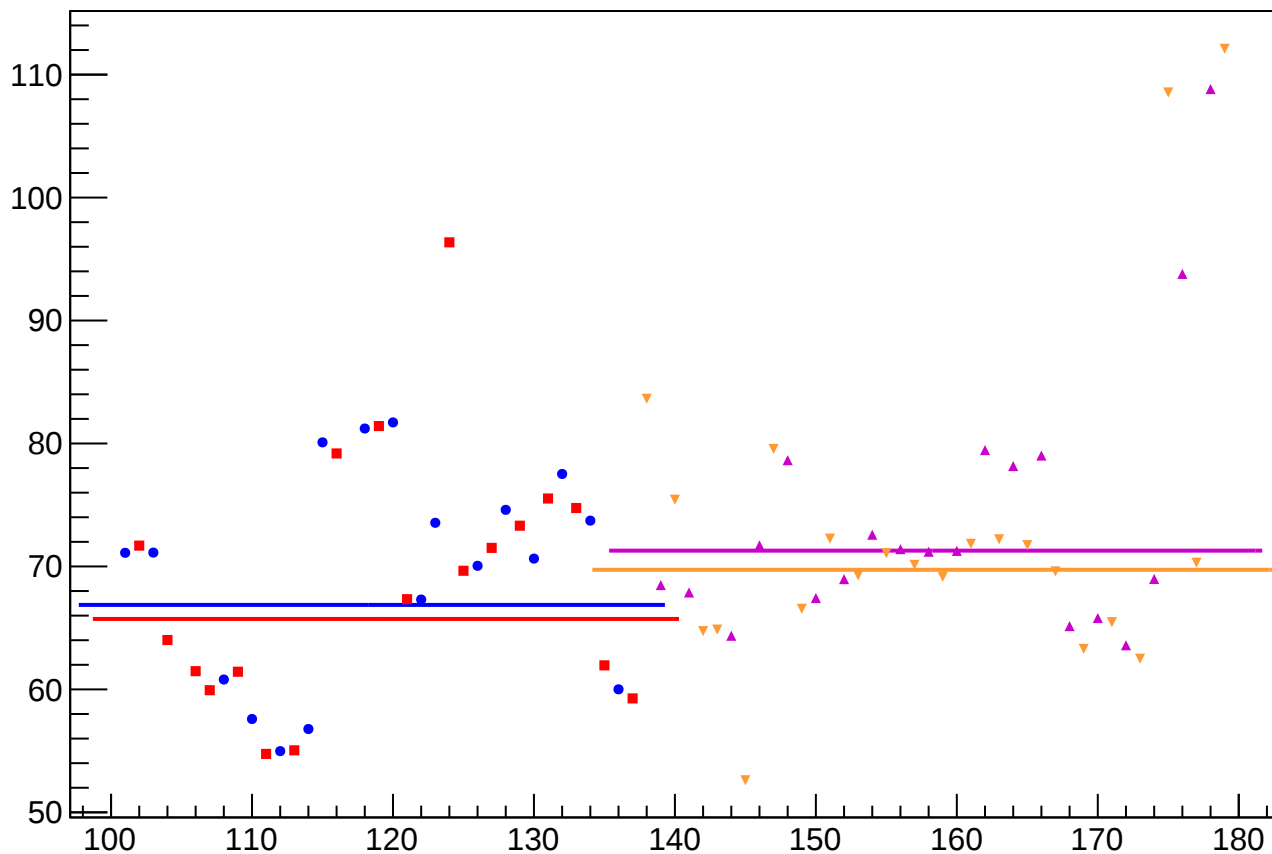
Right: -11.642 $\pm$ 18.082  $\chi^2$ /NDF: 28.1/34

In: 7.709 $\pm$ 14.925  $\chi^2$ /NDF:33.1/36

Out: -7.667 $\pm$ 14.251  $\chi^2$ /NDF:48.5/39

All: -0.334 $\pm$ 10.307  $\chi^2$ /NDF: 82.1/76

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 66.872 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 202515.6/16

Left Out: 69.730 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 724865.6/21

Right Out: 65.731 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 218867.5/17

Left In: 71.286 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 393816.0/19

Left: 70.468 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 1126357.1/41

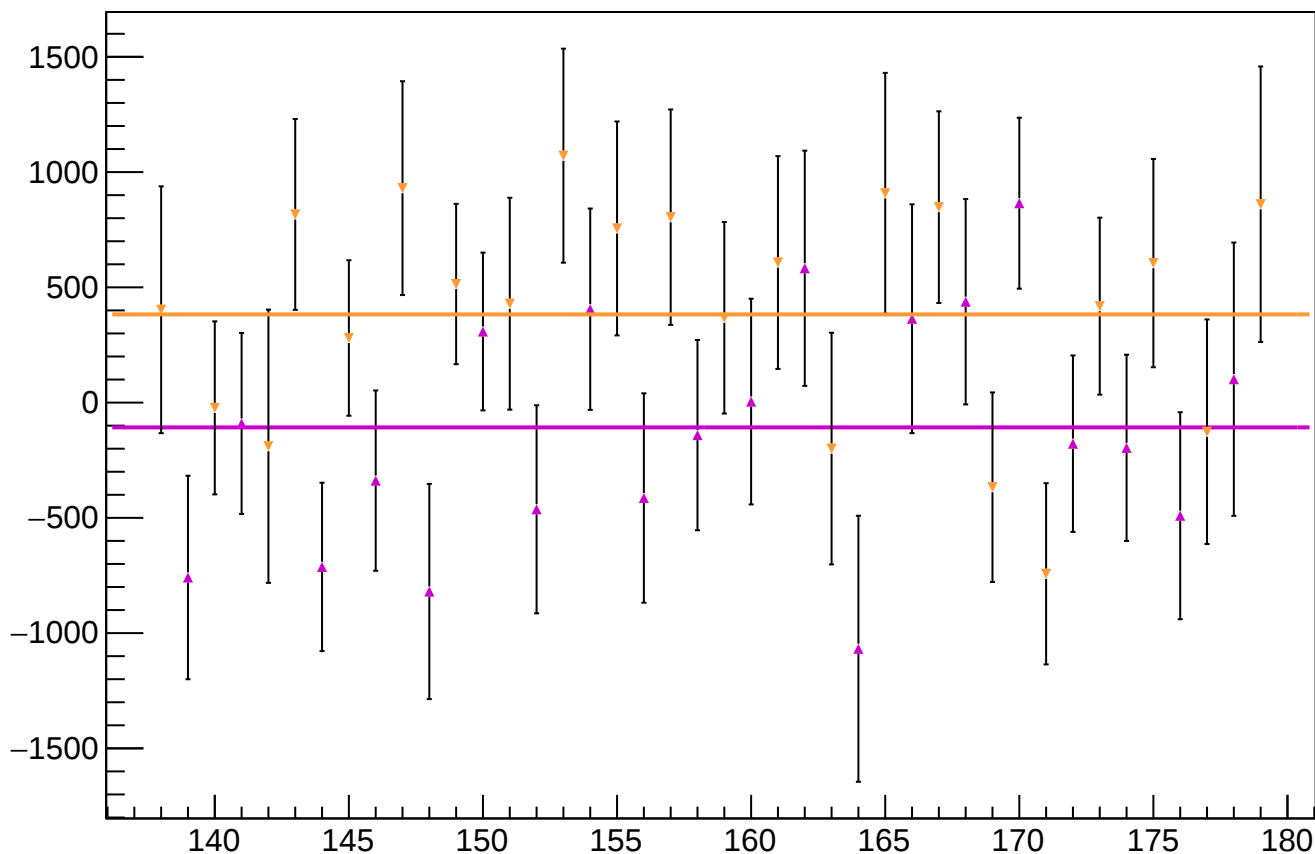
Right: 66.280 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 423373.0/34

In: 69.838 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 634893.8/36

Out: 68.442 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 978114.2/39

All: 69.108 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1622153.4/76

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: 382.622+/-93.429  $\chi^2/\text{NDF}$ :25.8/21

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

Left In: -107.568+/-95.939  $\chi^2/\text{NDF}$ :26.4/19

Left: 144.023+/-66.934  $\chi^2/\text{NDF}$ : 65.7/41

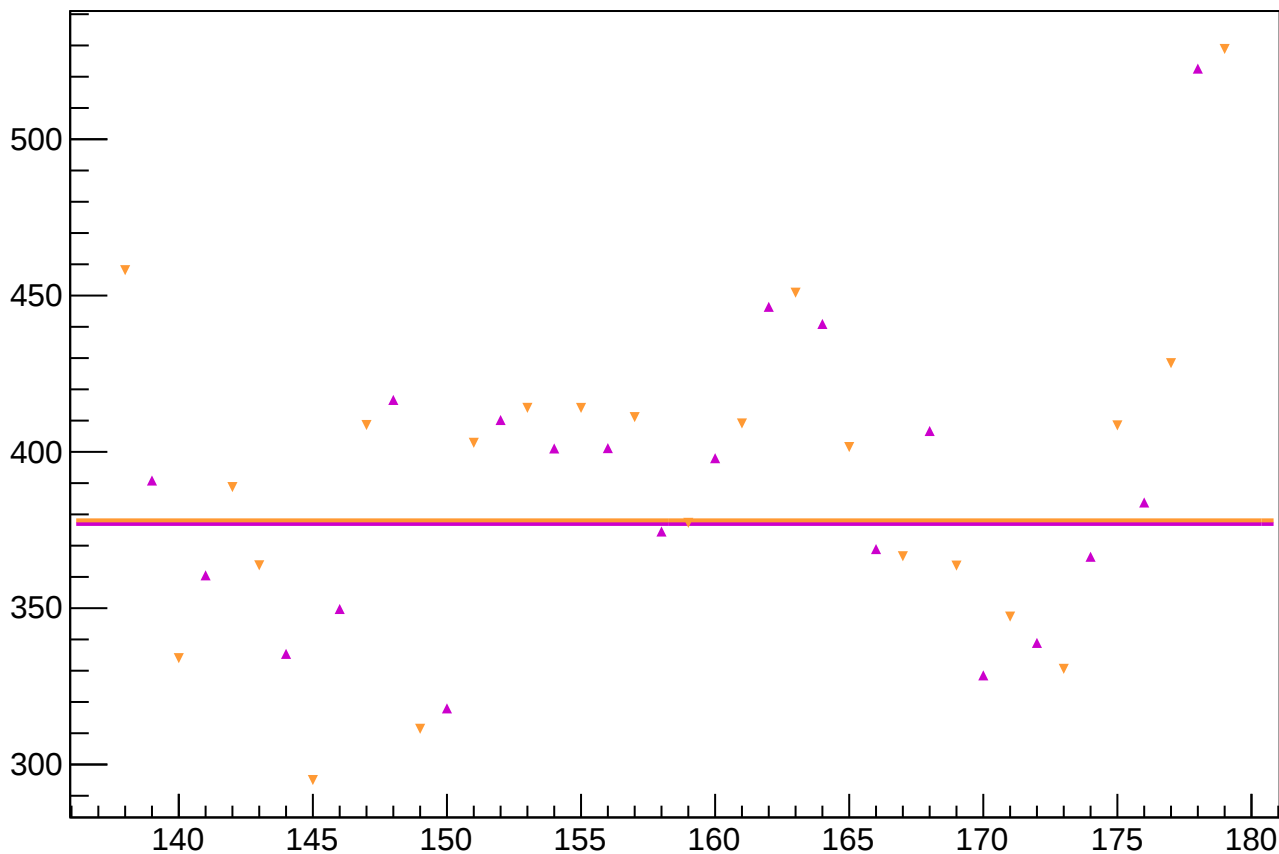
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -107.568+/-95.939  $\chi^2/\text{NDF}$ :26.4/19

Out: 382.622+/-93.429  $\chi^2/\text{NDF}$ :25.8/21

All: 144.023+/-66.934  $\chi^2/\text{NDF}$ : 65.7/41

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: 378.090+/-0.066  $\chi^2/\text{NDF}$ : 578262.9/21

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

Left In: 376.958+/-0.068  $\chi^2/\text{NDF}$ : 389658.3/19

Left: 377.539+/-0.047  $\chi^2/\text{NDF}$ : 968064.1/41

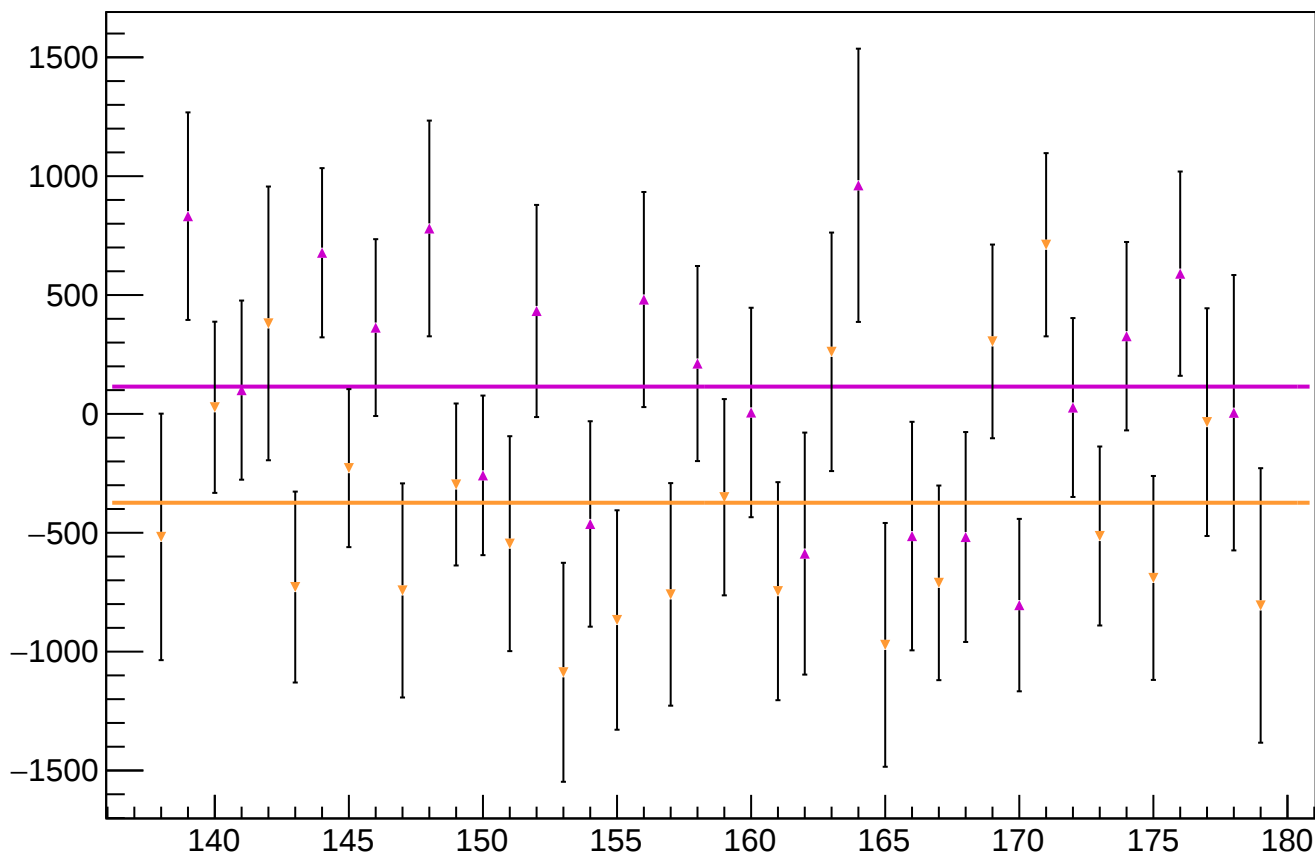
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 376.958+/-0.068  $\chi^2/\text{NDF}$ : 389658.3/19

Out: 378.090+/-0.066  $\chi^2/\text{NDF}$ : 578262.9/21

All: 377.539+/-0.047  $\chi^2/\text{NDF}$ : 968064.1/41

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: -373.715+/-91.634  $\chi^2/\text{NDF}$ :25.8/21

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

Left In: 114.792+/-93.956  $\chi^2/\text{NDF}$ :28.0/19

Left: -135.573+/-65.600  $\chi^2/\text{NDF}$ : 67.7/41

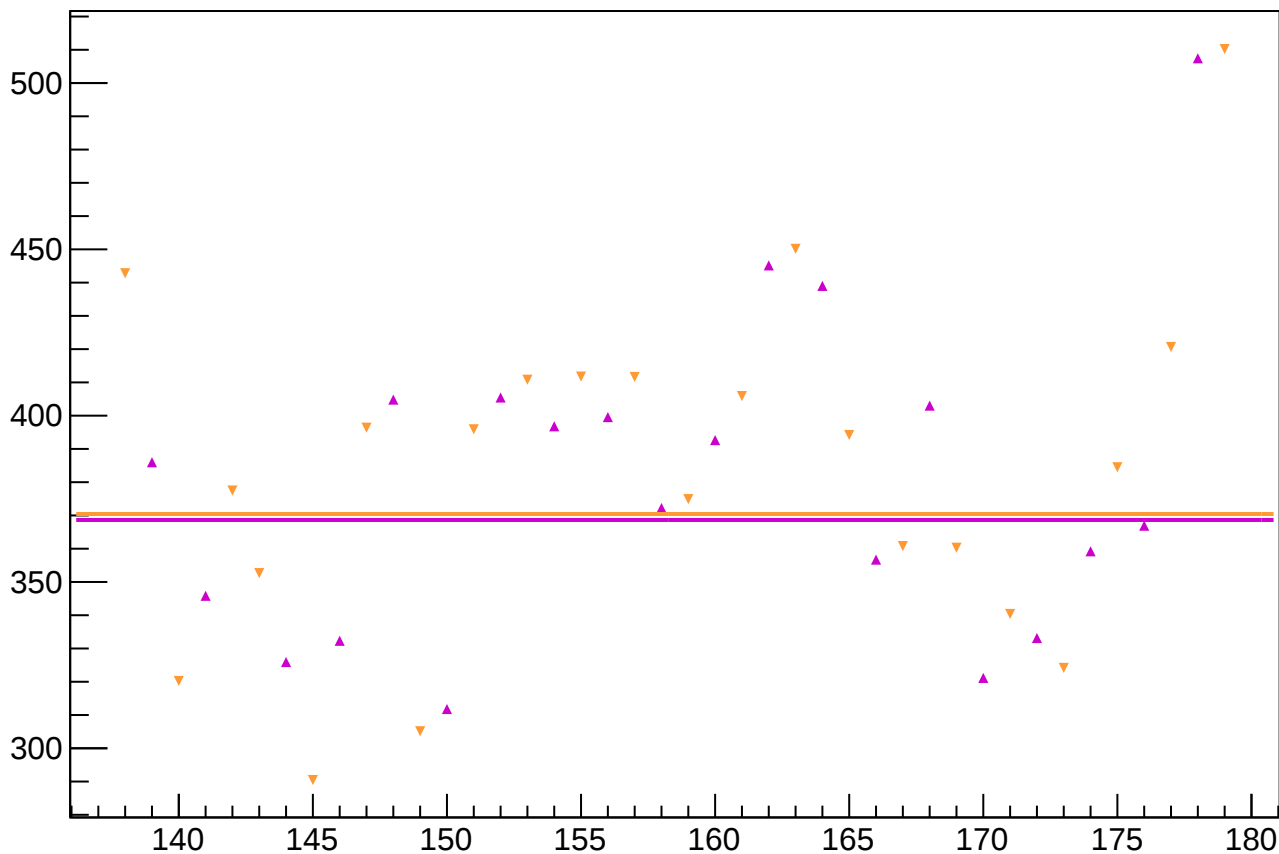
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 114.792+/-93.956  $\chi^2/\text{NDF}$ :28.0/19

Out: -373.715+/-91.634  $\chi^2/\text{NDF}$ :25.8/21

All: -135.573+/-65.600  $\chi^2/\text{NDF}$ : 67.7/41

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: 370.438+/-0.065  $\chi^2/\text{NDF}$ :584354.5/21

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

Left In: 368.644+/-0.066  $\chi^2/\text{NDF}$ :422630.7/19

Left: 369.563+/-0.046  $\chi^2/\text{NDF}$ : 1007359.1/41

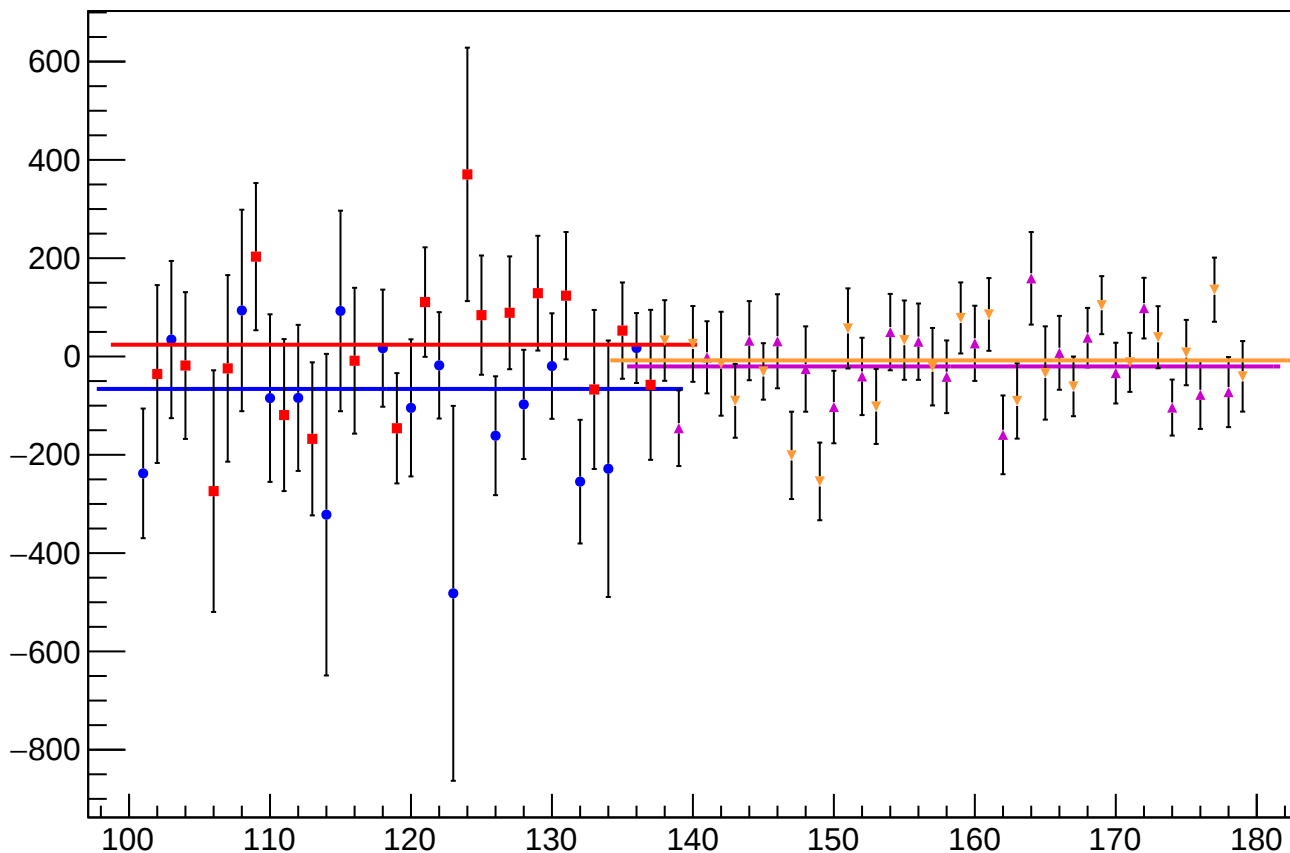
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 368.644+/-0.066  $\chi^2/\text{NDF}$ :422630.7/19

Out: 370.438+/-0.065  $\chi^2/\text{NDF}$ :584354.5/21

All: 369.563+/-0.046  $\chi^2/\text{NDF}$ : 1007359.1/41

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $-65.974 \pm 32.289$   $\chi^2/\text{NDF}$ : 10.8/16

Left Out:  $-7.903 \pm 15.417$   $\chi^2/\text{NDF}$ : 33.0/21

Right Out:  $23.979 \pm 32.790$   $\chi^2/\text{NDF}$ : 12.9/17

Left In:  $-20.238 \pm 16.358$   $\chi^2/\text{NDF}$ : 21.3/19

Left:  $-13.705 \pm 11.219$   $\chi^2/\text{NDF}$ : 54.6/41

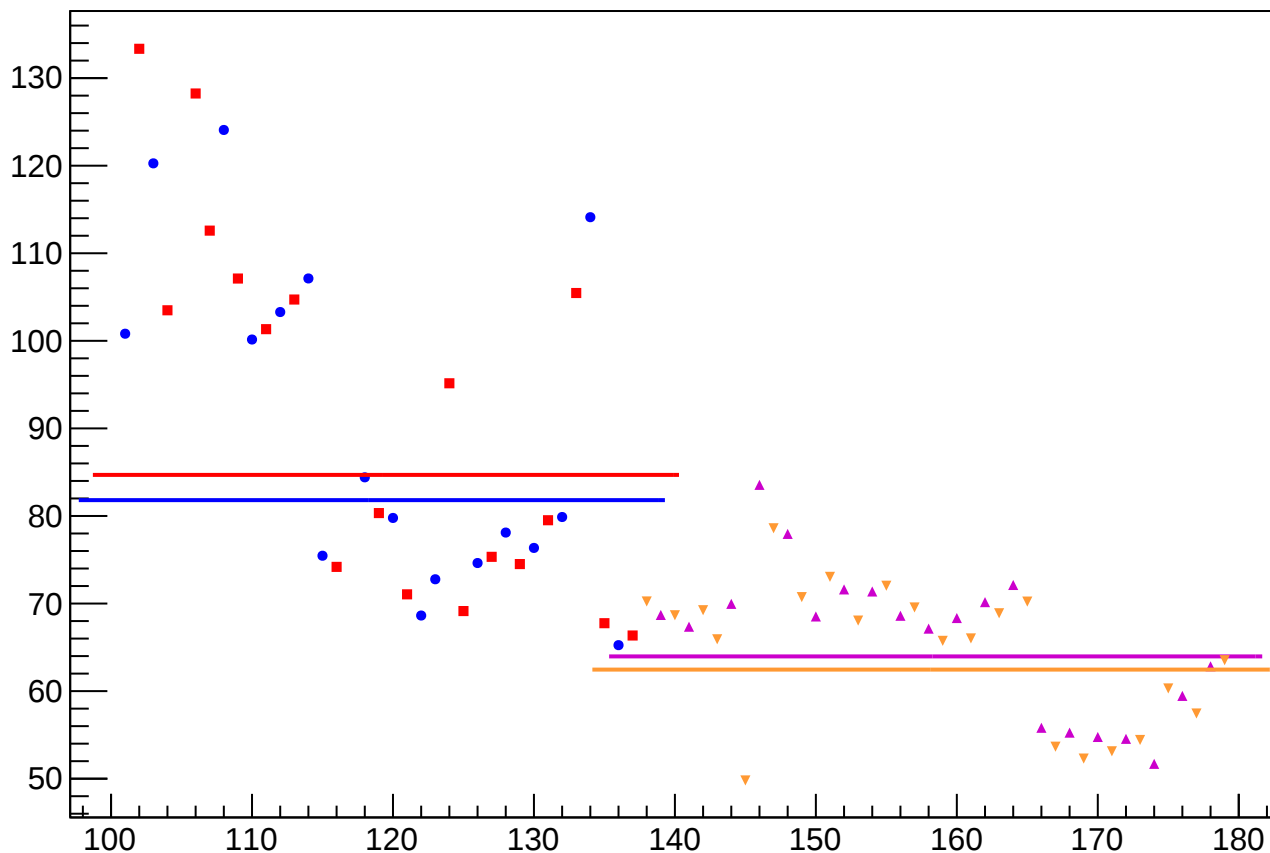
Right:  $-21.690 \pm 23.007$   $\chi^2/\text{NDF}$ : 27.5/34

In:  $-29.579 \pm 14.592$   $\chi^2/\text{NDF}$ : 33.7/36

Out:  $-2.131 \pm 13.952$   $\chi^2/\text{NDF}$ : 46.7/39

All:  $-15.239 \pm 10.084$   $\chi^2/\text{NDF}$ : 82.2/76

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 62.458 $\pm$ 0.011  $\chi^2$ /NDF: 549868.4/21

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

Left In: 63.964 $\pm$ 0.012  $\chi^2$ /NDF: 505374.1/19

Left: 63.166 $\pm$ 0.008  $\chi^2$ /NDF: 1064225.4/41

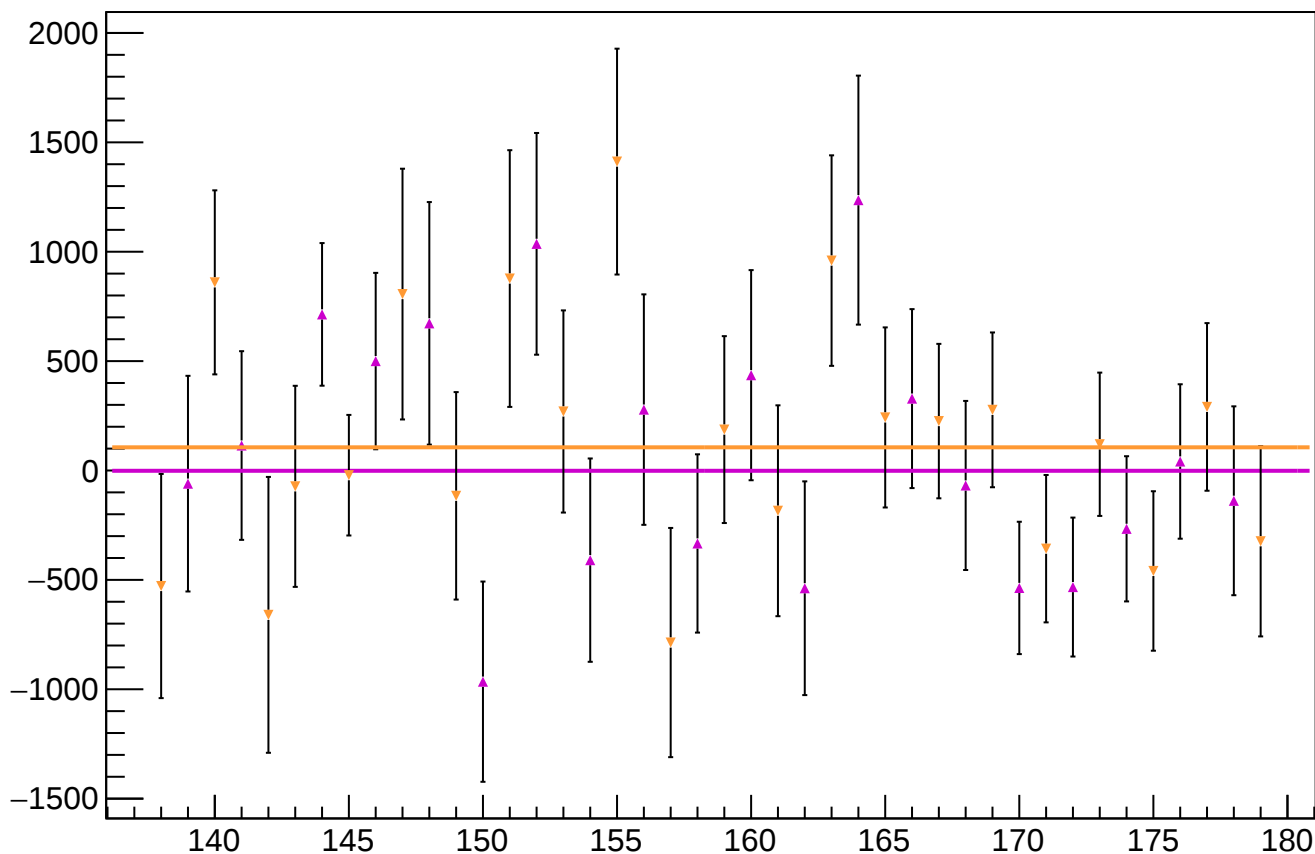
Right: 83.228 $\pm$ 0.016  $\chi^2$ /NDF: 1130968.2/34

In: 67.608 $\pm$ 0.010  $\chi^2$ /NDF: 1498664.4/36

Out: 66.483 $\pm$ 0.010  $\chi^2$ /NDF: 1918842.1/39

All: 67.020 $\pm$ 0.007  $\chi^2$ /NDF: 3423725.3/76

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: 105.945+/-89.039  $\chi^2/\text{NDF}$ :29.0/21

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

Left In: -1.335+/-91.732  $\chi^2/\text{NDF}$ :32.4/19

Left: 53.902+/-63.891  $\chi^2/\text{NDF}$ : 62.1/41

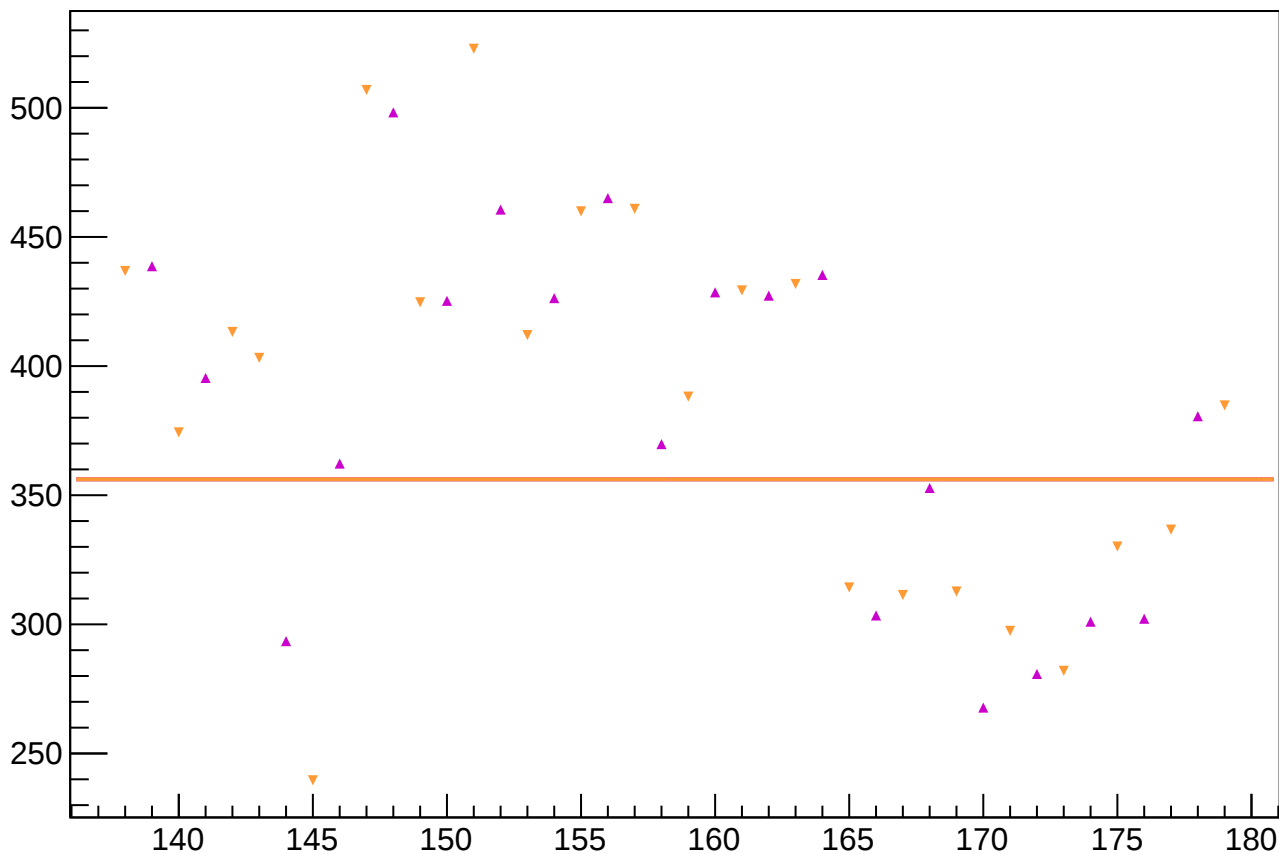
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.335+/-91.732  $\chi^2/\text{NDF}$ :32.4/19

Out: 105.945+/-89.039  $\chi^2/\text{NDF}$ :29.0/21

All: 53.902+/-63.891  $\chi^2/\text{NDF}$ : 62.1/41

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: 356.163+/-0.063  $\chi^2/\text{NDF}$ :1356862.1/21

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

Left In: 356.153+/-0.065  $\chi^2/\text{NDF}$ :1093841.7/19

Left: 356.158+/-0.045  $\chi^2/\text{NDF}$ : 2450703.8/41

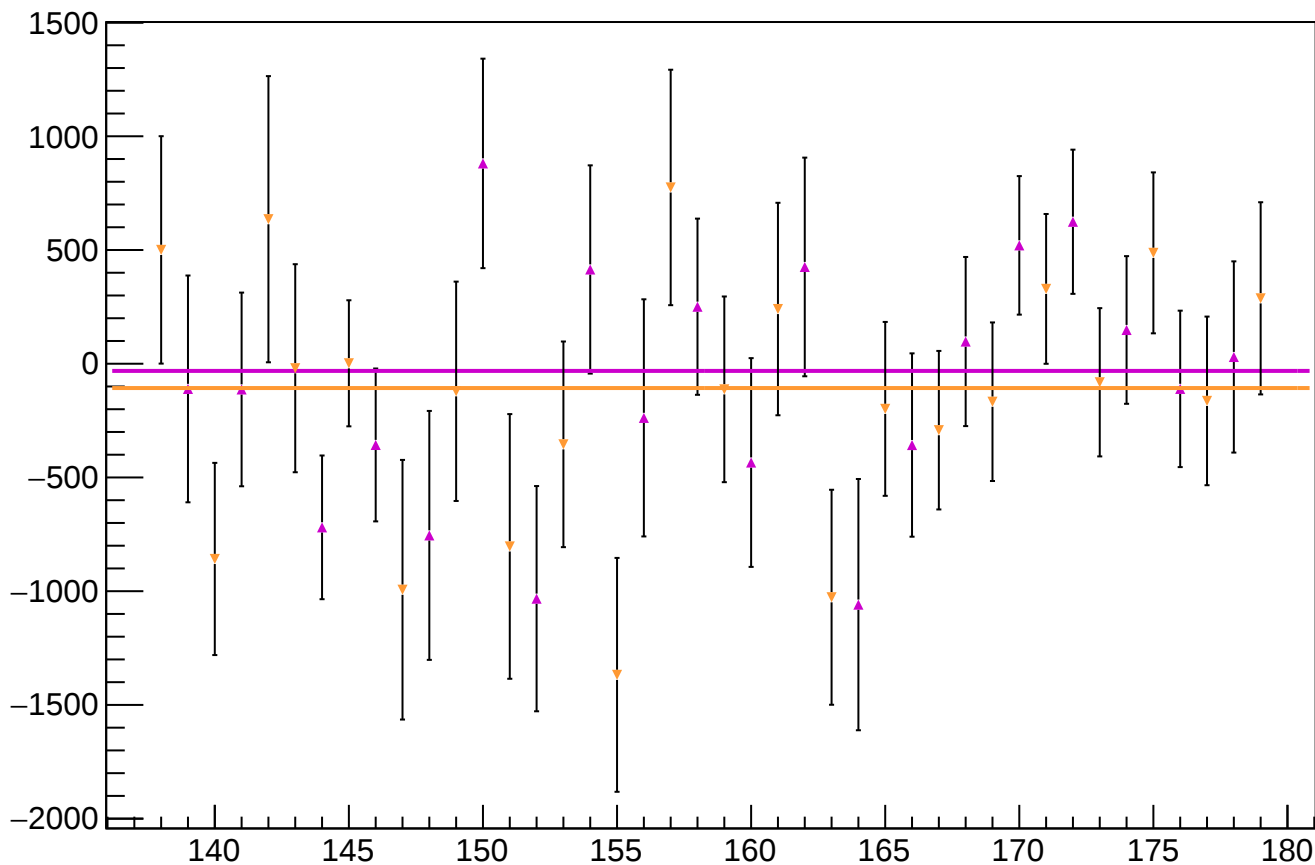
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 356.153+/-0.065  $\chi^2/\text{NDF}$ :1093841.7/19

Out: 356.163+/-0.063  $\chi^2/\text{NDF}$ :1356862.1/21

All: 356.158+/-0.045  $\chi^2/\text{NDF}$ : 2450703.8/41

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: -106.908+/-87.520  $\chi^2/\text{NDF}$ :29.5/21

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

Left In: -31.554+/-89.170  $\chi^2/\text{NDF}$ :31.0/19

Left: -69.935+/-62.461  $\chi^2/\text{NDF}$ : 60.8/41

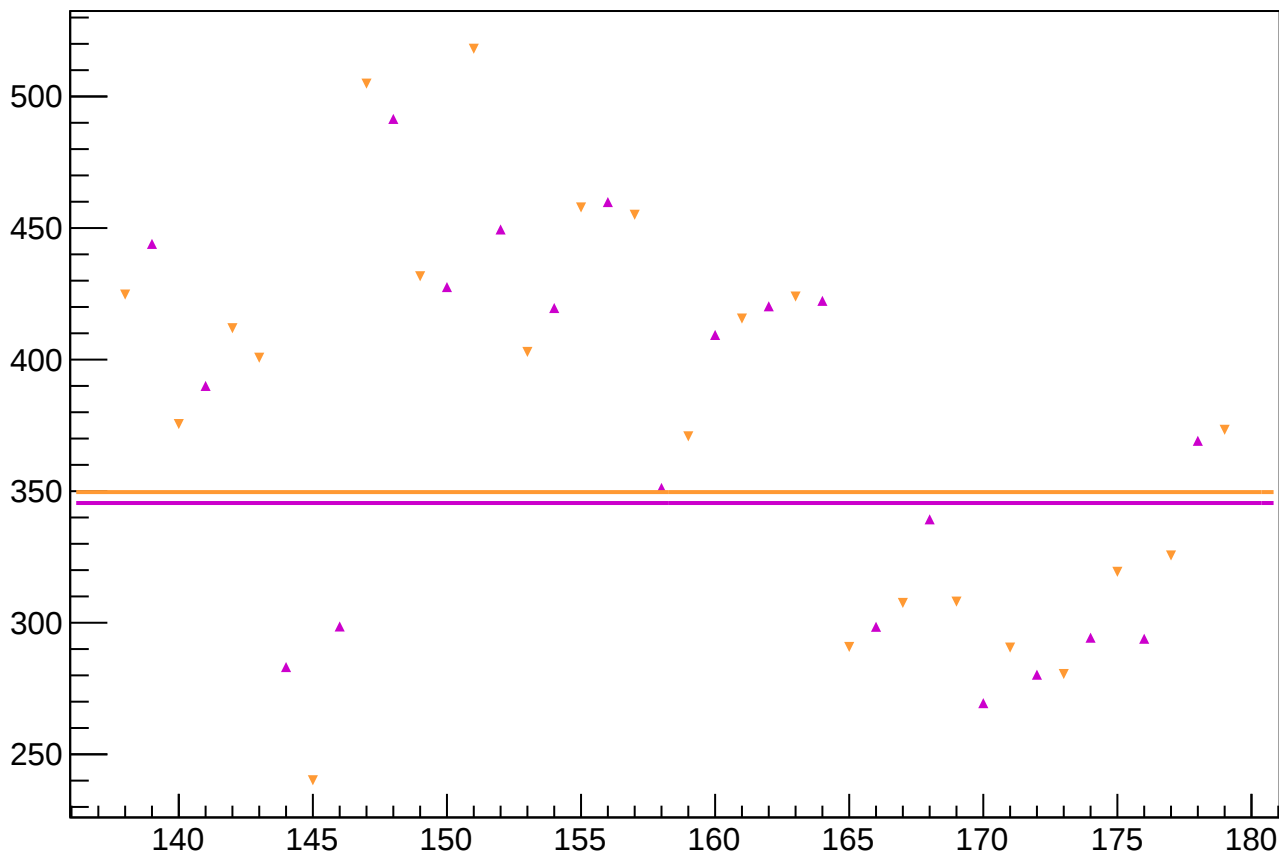
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.554+/-89.170  $\chi^2/\text{NDF}$ :31.0/19

Out: -106.908+/-87.520  $\chi^2/\text{NDF}$ :29.5/21

All: -69.935+/-62.461  $\chi^2/\text{NDF}$ : 60.8/41

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: 349.653+/-0.062  $\chi^2/\text{NDF}$ :1366018.8/21

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

Left In: 345.500+/-0.063  $\chi^2/\text{NDF}$ :1124127.7/19

Left: 347.616+/-0.044  $\chi^2/\text{NDF}$ : 2492356.3/41

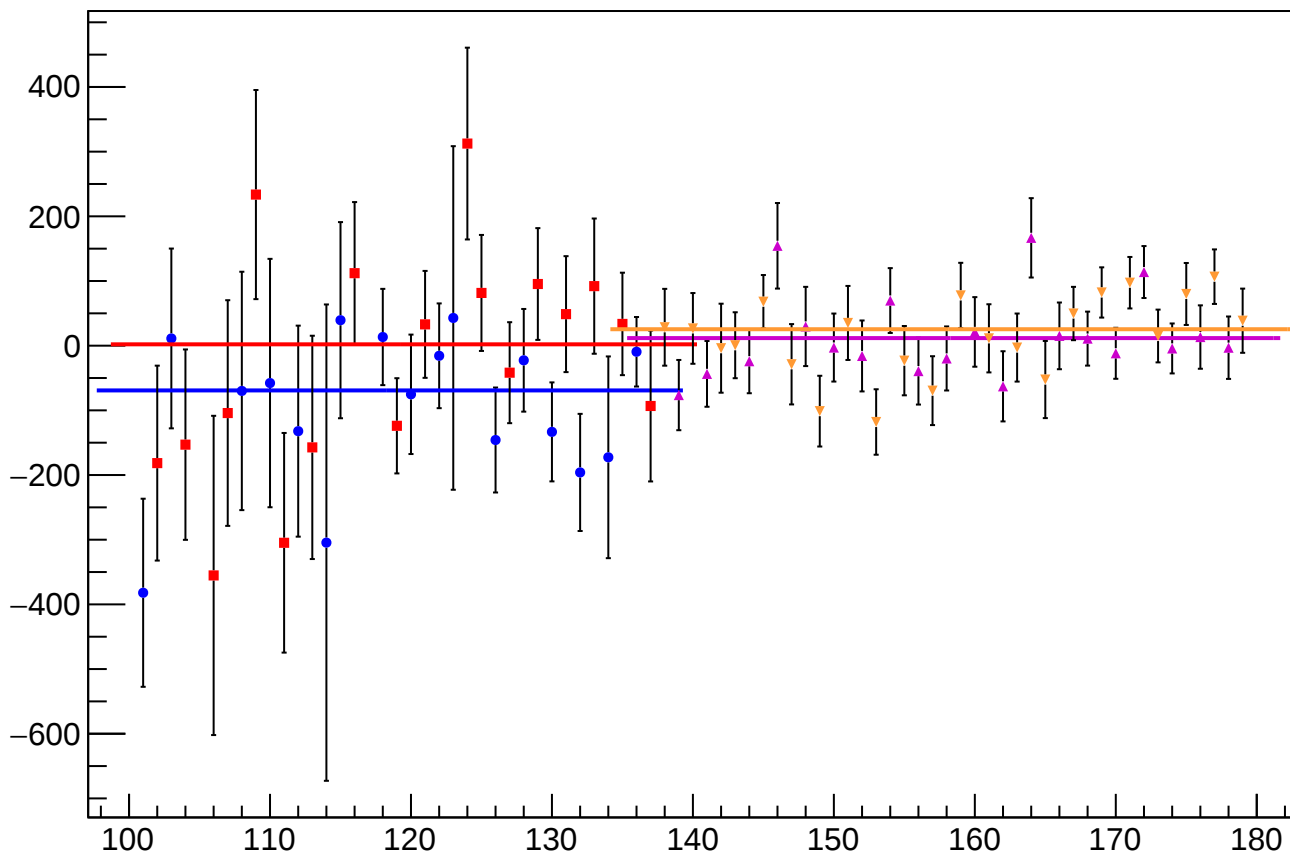
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 345.500+/-0.063  $\chi^2/\text{NDF}$ :1124127.7/19

Out: 349.653+/-0.062  $\chi^2/\text{NDF}$ :1366018.8/21

All: 347.616+/-0.044  $\chi^2/\text{NDF}$ : 2492356.3/41

dit\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $-69.188 \pm 24.260$   $\chi^2/\text{NDF}$ : 13.5/16

Left Out:  $25.431 \pm 10.497$   $\chi^2/\text{NDF}$ : 33.7/21

Right Out:  $2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

Left In:  $11.722 \pm 11.055$   $\chi^2/\text{NDF}$ : 27.5/19

Left:  $18.931 \pm 7.612$   $\chi^2/\text{NDF}$ : 62.1/41

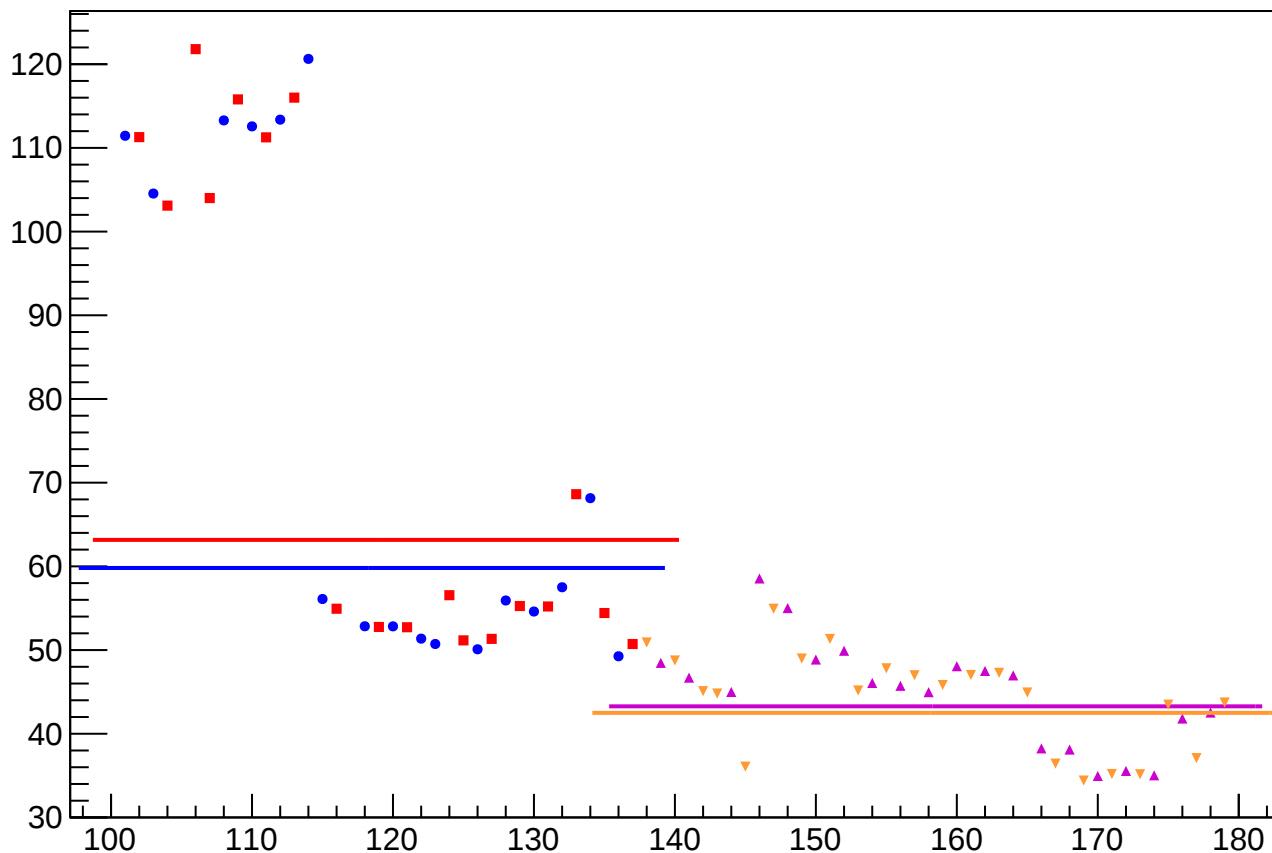
Right:  $-34.889 \pm 17.473$   $\chi^2/\text{NDF}$ : 41.4/34

In:  $-2.190 \pm 10.060$   $\chi^2/\text{NDF}$ : 50.2/36

Out:  $21.976 \pm 9.689$   $\chi^2/\text{NDF}$ : 58.2/39

All:  $10.346 \pm 6.979$   $\chi^2/\text{NDF}$ : 111.4/76

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 59.809+/-0.017  $\chi^2/\text{NDF}$ : 1229983.3/16

Left Out: 42.498+/-0.007  $\chi^2/\text{NDF}$ : 657790.5/21

Right Out: 63.166+/-0.018  $\chi^2/\text{NDF}$ : 1387305.6/17

Left In: 43.275+/-0.008  $\chi^2/\text{NDF}$ : 616068.3/19

Left: 42.866+/-0.005  $\chi^2/\text{NDF}$ : 1279058.2/41

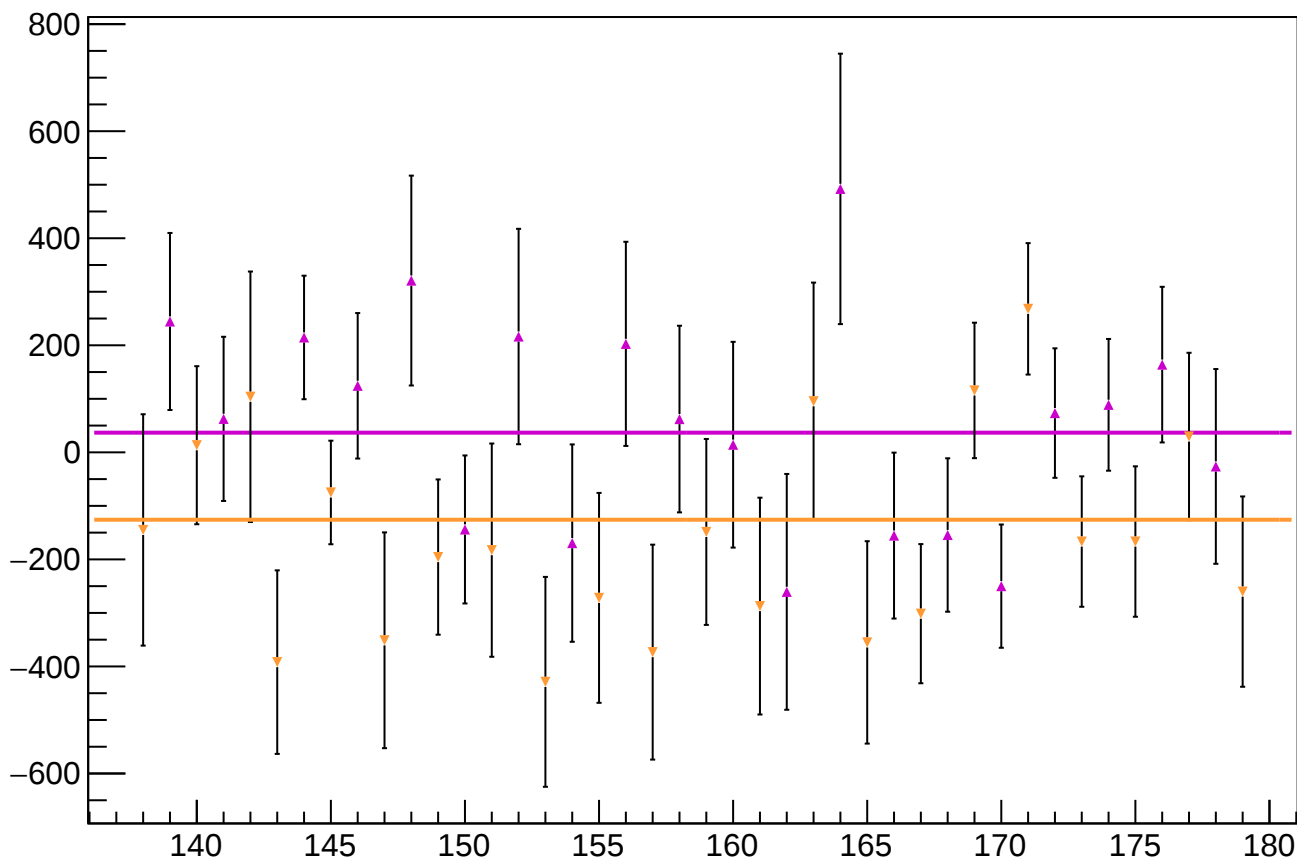
Right: 61.424+/-0.012  $\chi^2/\text{NDF}$ : 2635717.1/34

In: 46.118+/-0.007  $\chi^2/\text{NDF}$ : 2615240.0/36

Out: 45.556+/-0.007  $\chi^2/\text{NDF}$ : 3192479.0/39

All: 45.827+/-0.005  $\chi^2/\text{NDF}$ : 5810951.9/76

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: -125.894+/-33.615  $\chi^2/\text{NDF}$ :31.2/21

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

Left In: 36.755+/-34.459  $\chi^2/\text{NDF}$ :26.8/19

Left: -46.588+/-24.062  $\chi^2/\text{NDF}$ : 69.4/41

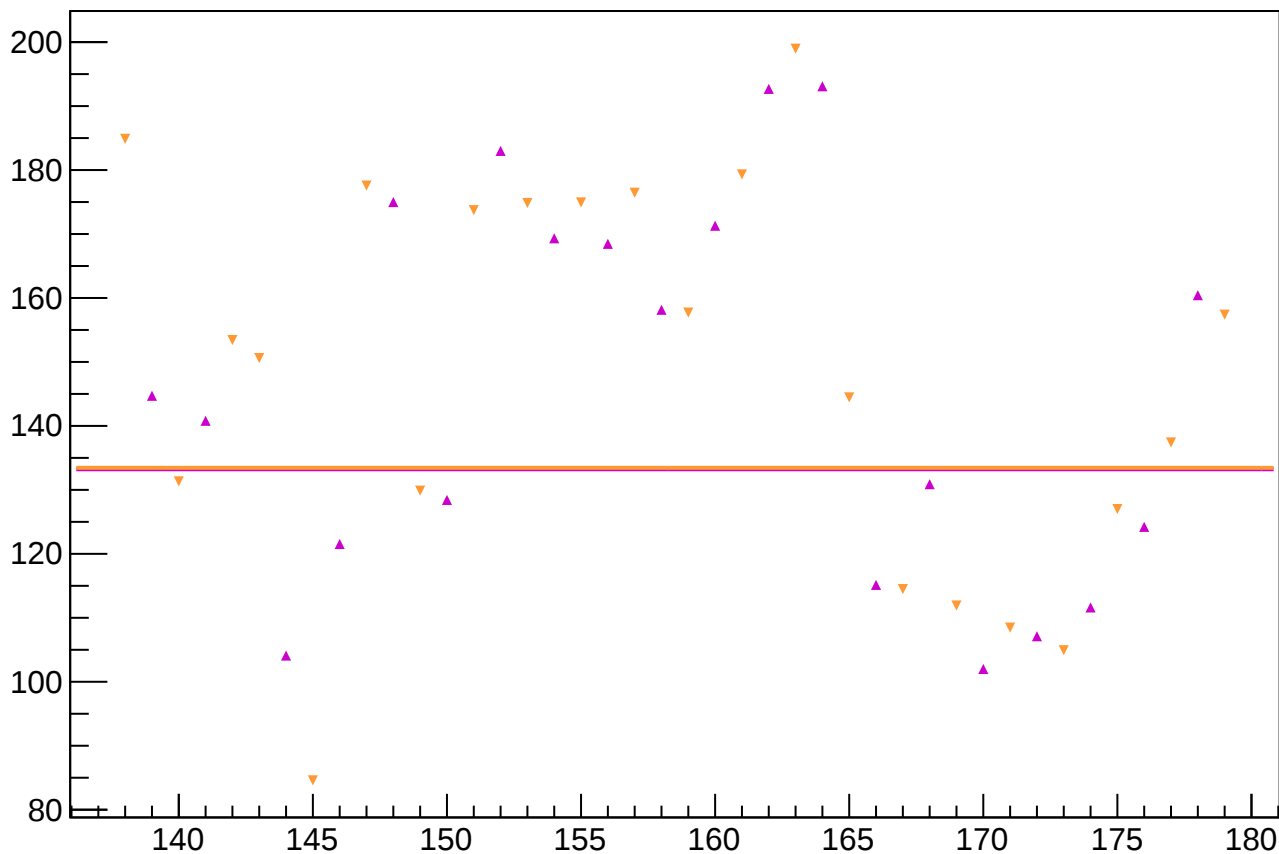
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 36.755+/-34.459  $\chi^2/\text{NDF}$ :26.8/19

Out: -125.894+/-33.615  $\chi^2/\text{NDF}$ :31.2/21

All: -46.588+/-24.062  $\chi^2/\text{NDF}$ : 69.4/41

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: 133.447+/-0.024  $\chi^2/\text{NDF}$ :1765667.8/21

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

Left In: 133.222+/-0.024  $\chi^2/\text{NDF}$ :1276787.4/19

Left: 133.337+/-0.017  $\chi^2/\text{NDF}$ : 3042498.9/41

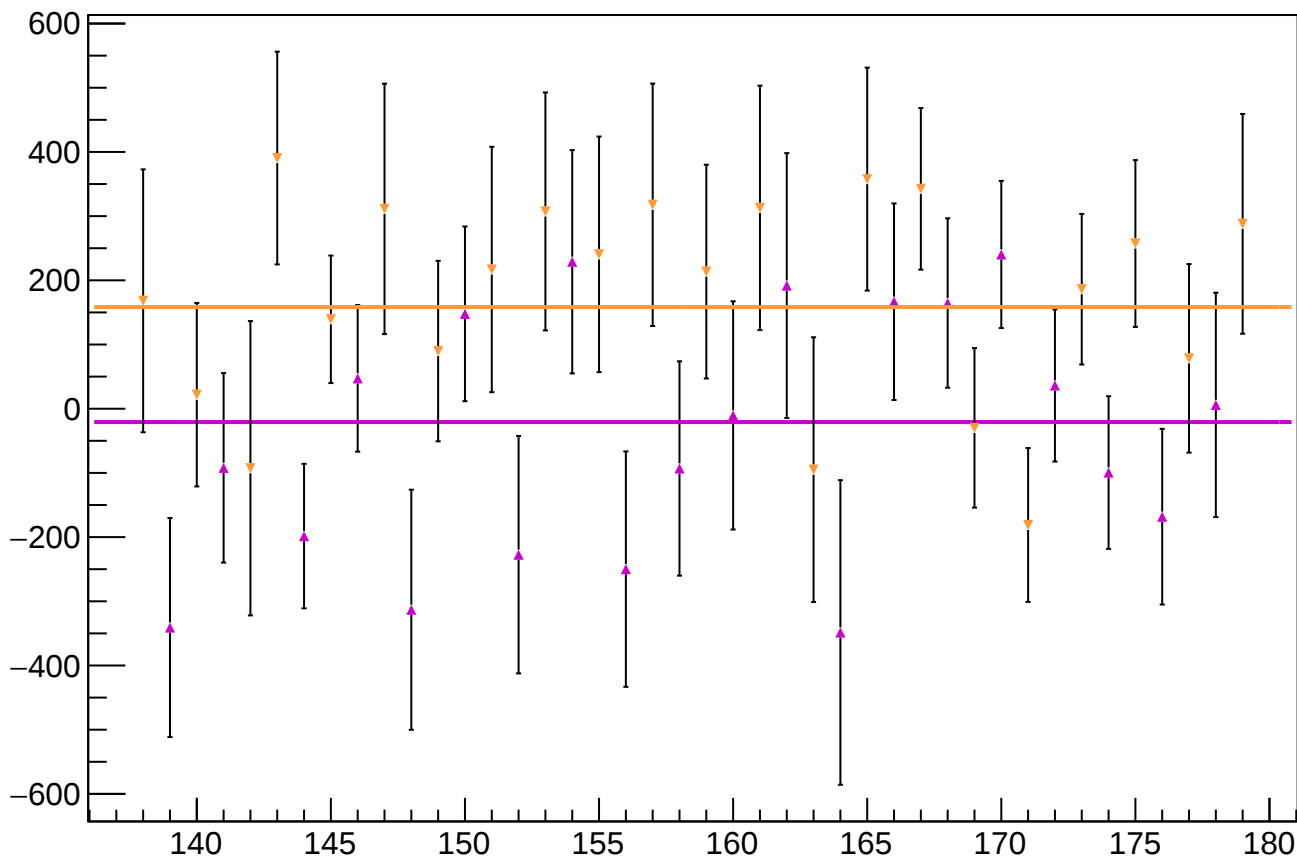
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 133.222+/-0.024  $\chi^2/\text{NDF}$ :1276787.4/19

Out: 133.447+/-0.024  $\chi^2/\text{NDF}$ :1765667.8/21

All: 133.337+/-0.017  $\chi^2/\text{NDF}$ : 3042498.9/41

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 158.360 $\pm$ 32.426  $\chi^2$ /NDF:24.2/21

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

Left In: -20.782 $\pm$ 32.905  $\chi^2$ /NDF:29.1/19

Left: 70.102 $\pm$ 23.096  $\chi^2$ /NDF: 68.3/41

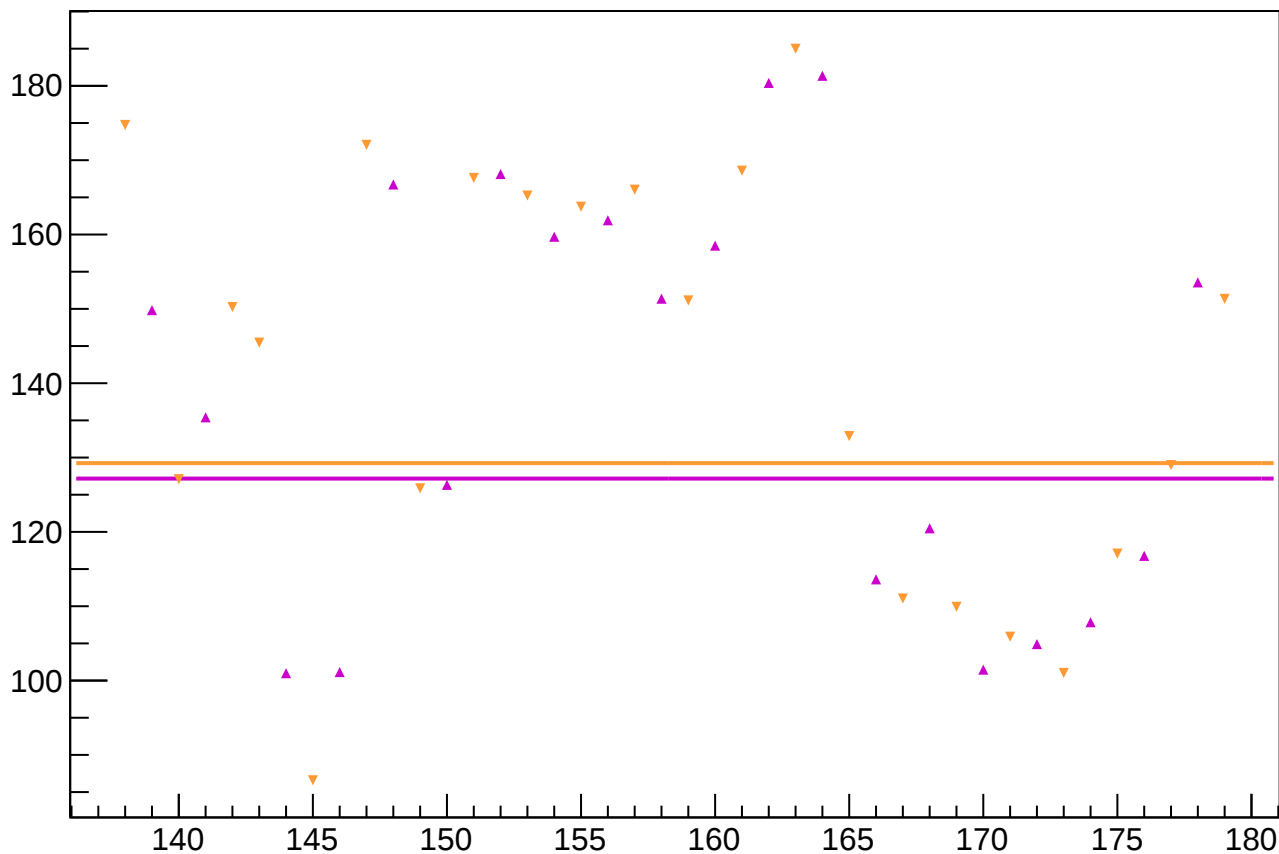
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -20.782 $\pm$ 32.905  $\chi^2$ /NDF:29.1/19

Out: 158.360 $\pm$ 32.426  $\chi^2$ /NDF:24.2/21

All: 70.102 $\pm$ 23.096  $\chi^2$ /NDF: 68.3/41

# 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: 129.252+/-0.023  $\chi^2/\text{NDF}$ :1504013.8/21

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

Left In: 127.171+/-0.023  $\chi^2/\text{NDF}$ :1226638.6/19

Left: 128.227+/-0.016  $\chi^2/\text{NDF}$ : 2734708.0/41

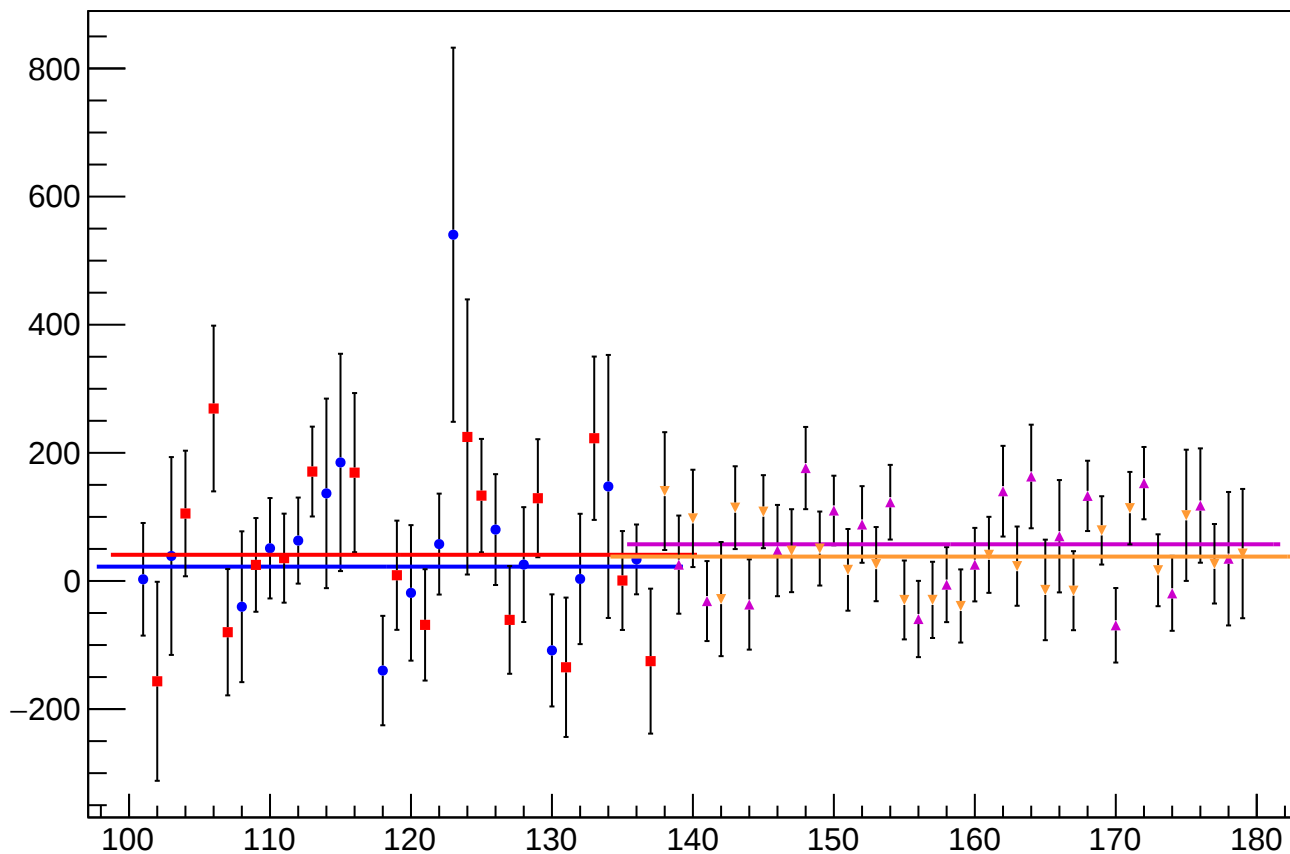
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 127.171+/-0.023  $\chi^2/\text{NDF}$ :1226638.6/19

Out: 129.252+/-0.023  $\chi^2/\text{NDF}$ :1504013.8/21

All: 128.227+/-0.016  $\chi^2/\text{NDF}$ : 2734708.0/41

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 22.361 $\pm$ 22.625  $\chi^2$ /NDF: 12.6/16

Left Out: 38.052 $\pm$ 13.728  $\chi^2$ /NDF:14.0/21

Right Out: 40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

Left In: 57.249 $\pm$ 14.444  $\chi^2$ /NDF:30.0/19

Left: 47.163 $\pm$ 9.951  $\chi^2$ /NDF: 45.0/41

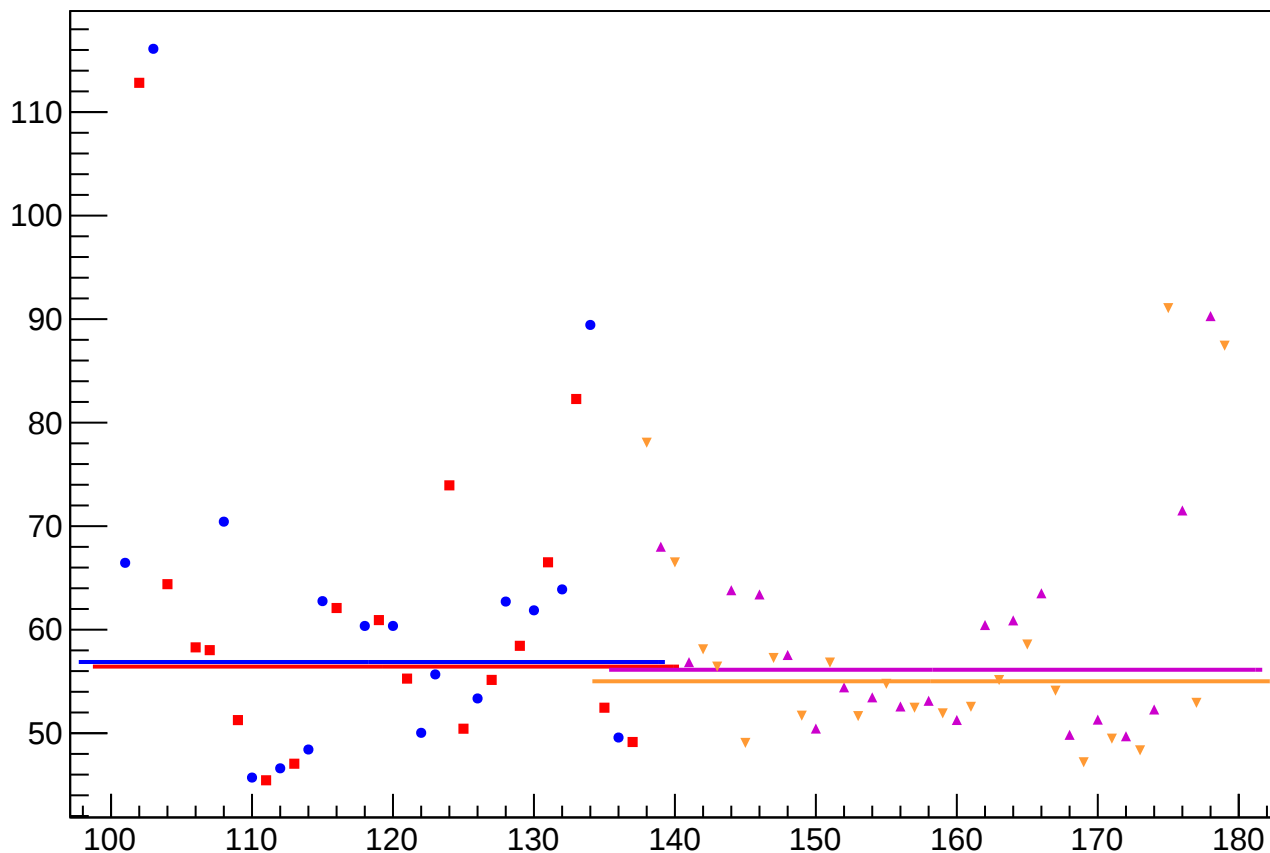
Right: 31.816 $\pm$ 15.823  $\chi^2$ /NDF: 37.1/34

In: 47.147 $\pm$ 12.175  $\chi^2$ /NDF:44.3/36

Out: 38.834 $\pm$ 11.667  $\chi^2$ /NDF:38.3/39

All: 42.813 $\pm$ 8.423  $\chi^2$ /NDF: 82.8/76

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 56.879 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 575487.1/16

Left Out: 55.015 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 778473.5/21

Right Out: 56.434 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 520456.9/17

Left In: 56.129 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 526015.6/19

Left: 55.544 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1310730.0/41

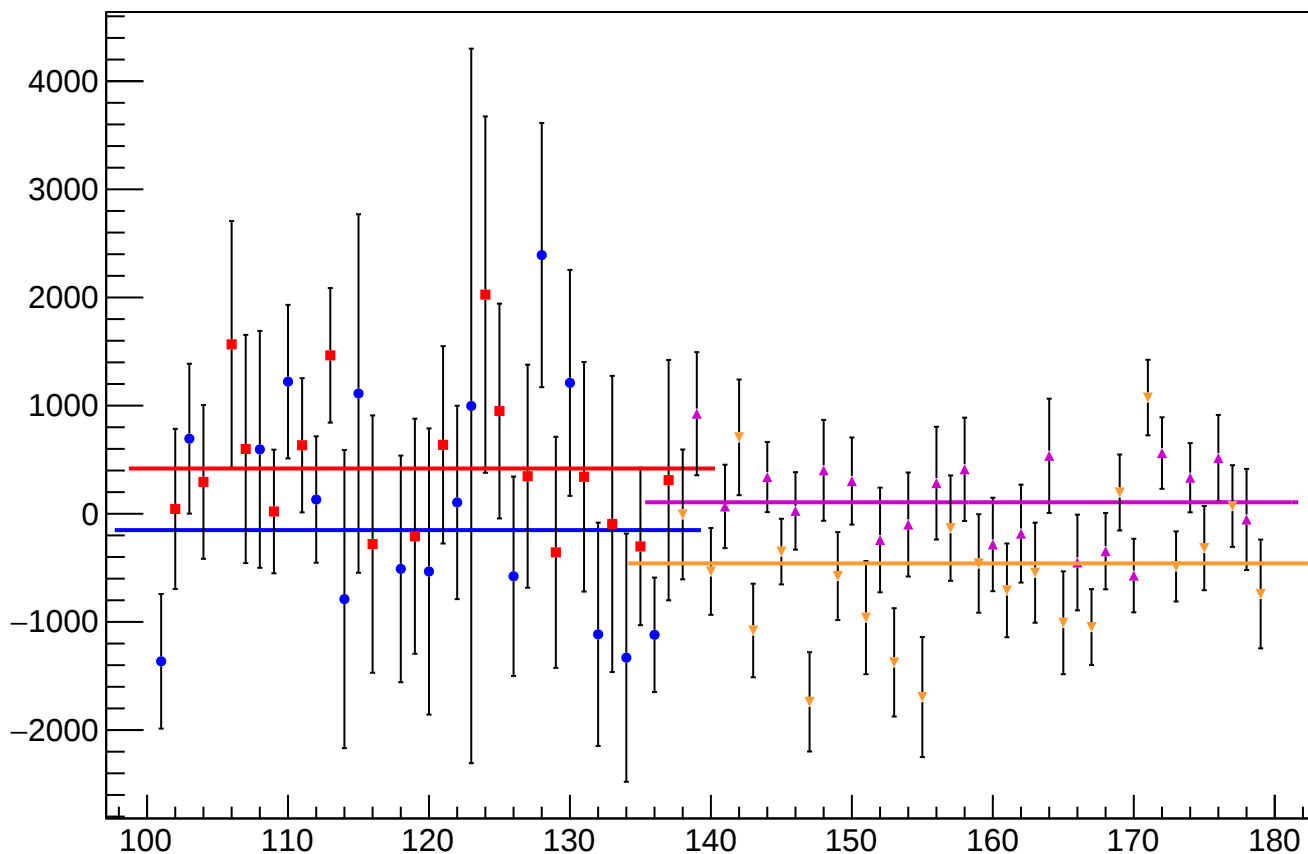
Right: 56.652 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 1096338.8/34

In: 56.346 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 1103064.8/36

Out: 55.409 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 1304862.6/39

All: 55.858 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 2414094.3/76

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-151.194 \pm 212.448$   $\chi^2/\text{NDF}: 22.4/16$

Left Out:  $-458.659 \pm 89.322$   $\chi^2/\text{NDF}: 54.8/21$

Right Out:  $418.554 \pm 205.061$   $\chi^2/\text{NDF}: 8.4/17$

Left In:  $106.252 \pm 91.298$   $\chi^2/\text{NDF}: 17.2/19$

Left:  $-182.381 \pm 63.847$   $\chi^2/\text{NDF}: 91.5/41$

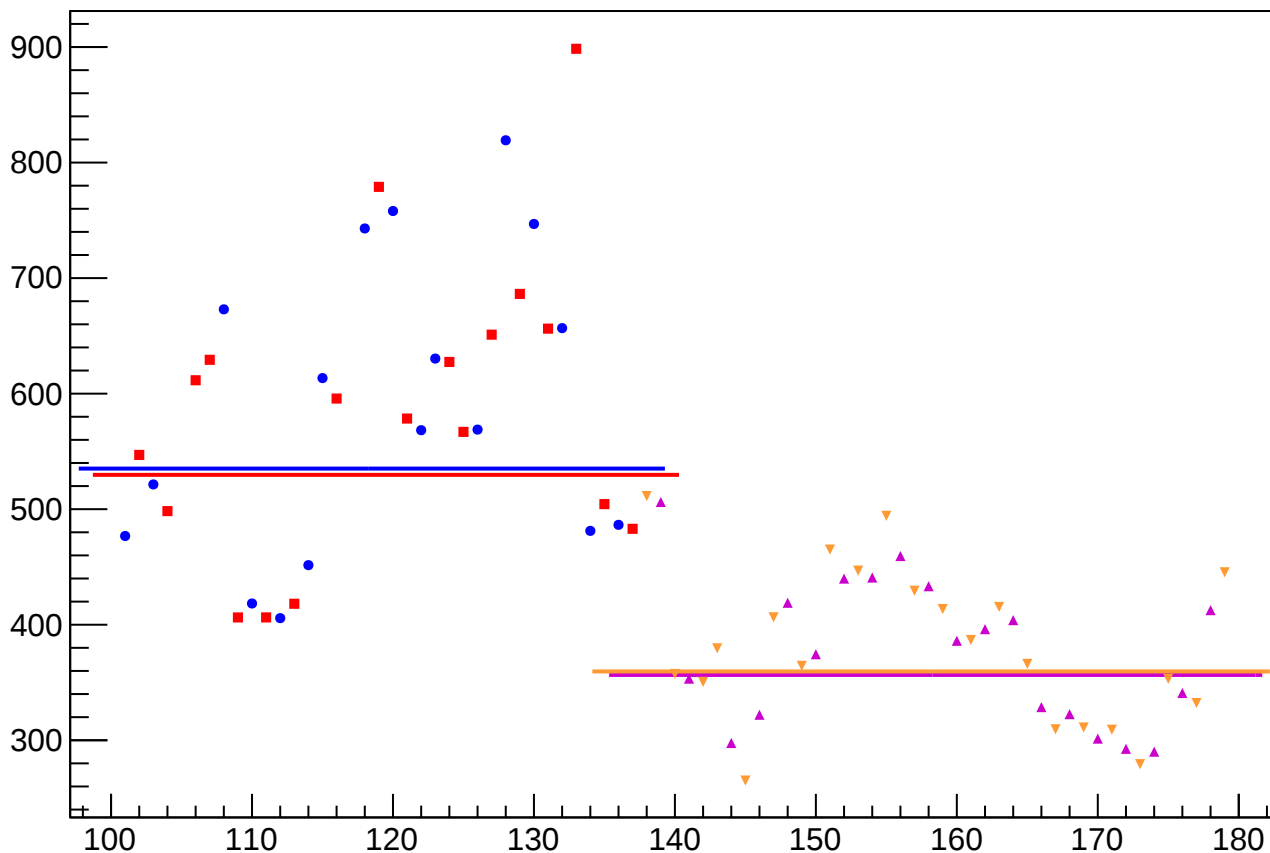
Right:  $143.757 \pm 147.542$   $\chi^2/\text{NDF}: 34.6/34$

In:  $66.119 \pm 83.880$   $\chi^2/\text{NDF}: 40.8/36$

Out:  $-318.762 \pm 81.891$   $\chi^2/\text{NDF}: 78.5/39$

All:  $-130.941 \pm 58.596$   $\chi^2/\text{NDF}: 130.2/76$

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 535.137+/-0.150  $\chi^2/\text{NDF}$ : 596084.8/16

Left Out: 359.547+/-0.063  $\chi^2/\text{NDF}$ : 1026694.1/21

Right Out: 529.720+/-0.145  $\chi^2/\text{NDF}$ : 646725.7/17

Left In: 356.528+/-0.065  $\chi^2/\text{NDF}$ : 826341.5/19

Left: 358.071+/-0.045  $\chi^2/\text{NDF}$ : 1854152.5/41

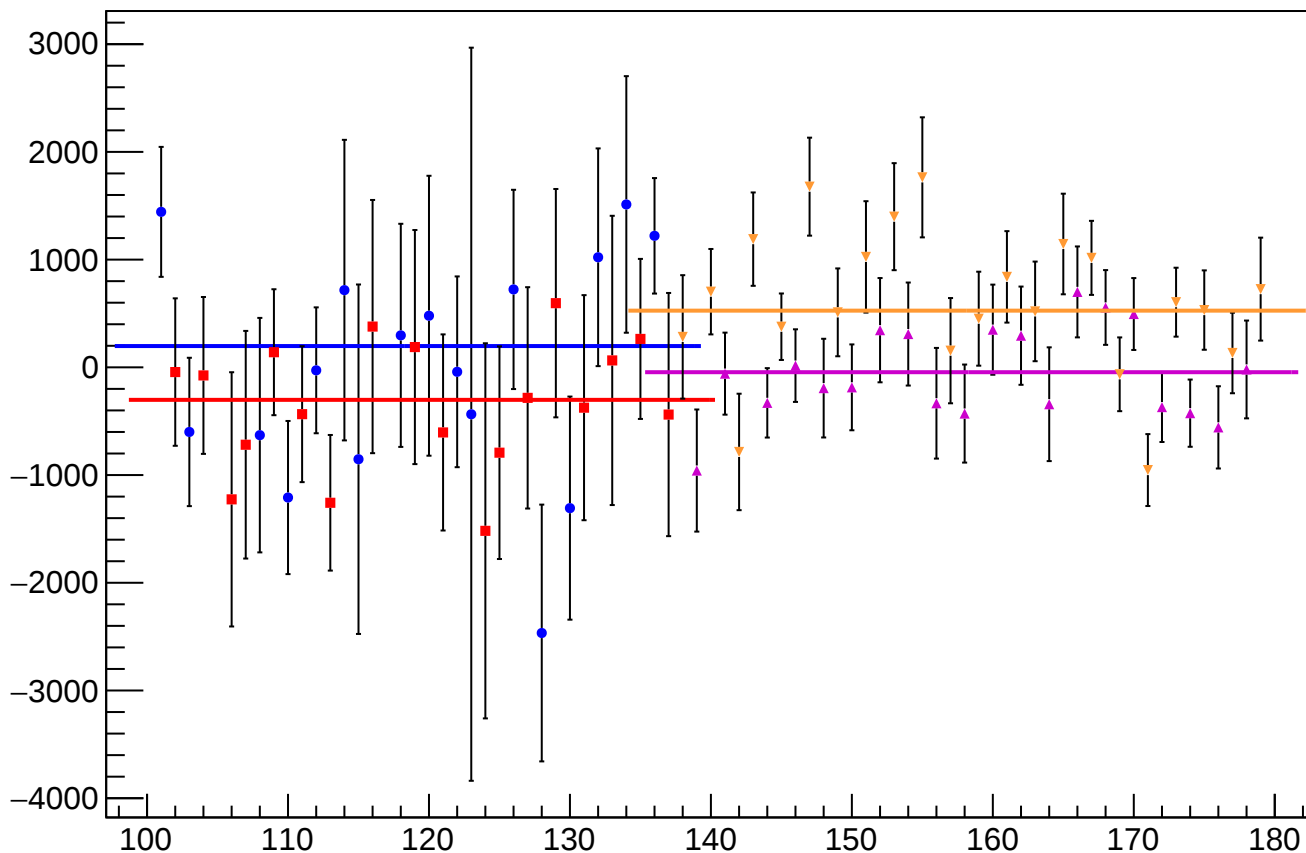
Right: 532.333+/-0.104  $\chi^2/\text{NDF}$ : 1243483.8/34

In: 384.372+/-0.059  $\chi^2/\text{NDF}$ : 2615677.2/36

Out: 386.686+/-0.058  $\chi^2/\text{NDF}$ : 2831111.6/39

All: 385.556+/-0.041  $\chi^2/\text{NDF}$ : 5447568.2/76

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 197.561 $\pm$ 211.480  $\chi^2$ /NDF: 23.9/16

Left Out: 526.305 $\pm$ 87.909  $\chi^2$ /NDF:53.1/21

Right Out: -301.856 $\pm$ 205.700  $\chi^2$ /NDF: 6.7/17

Left In: -45.160 $\pm$ 89.334  $\chi^2$ /NDF:20.7/19

Left: 245.168 $\pm$ 62.659  $\chi^2$ /NDF: 94.5/41

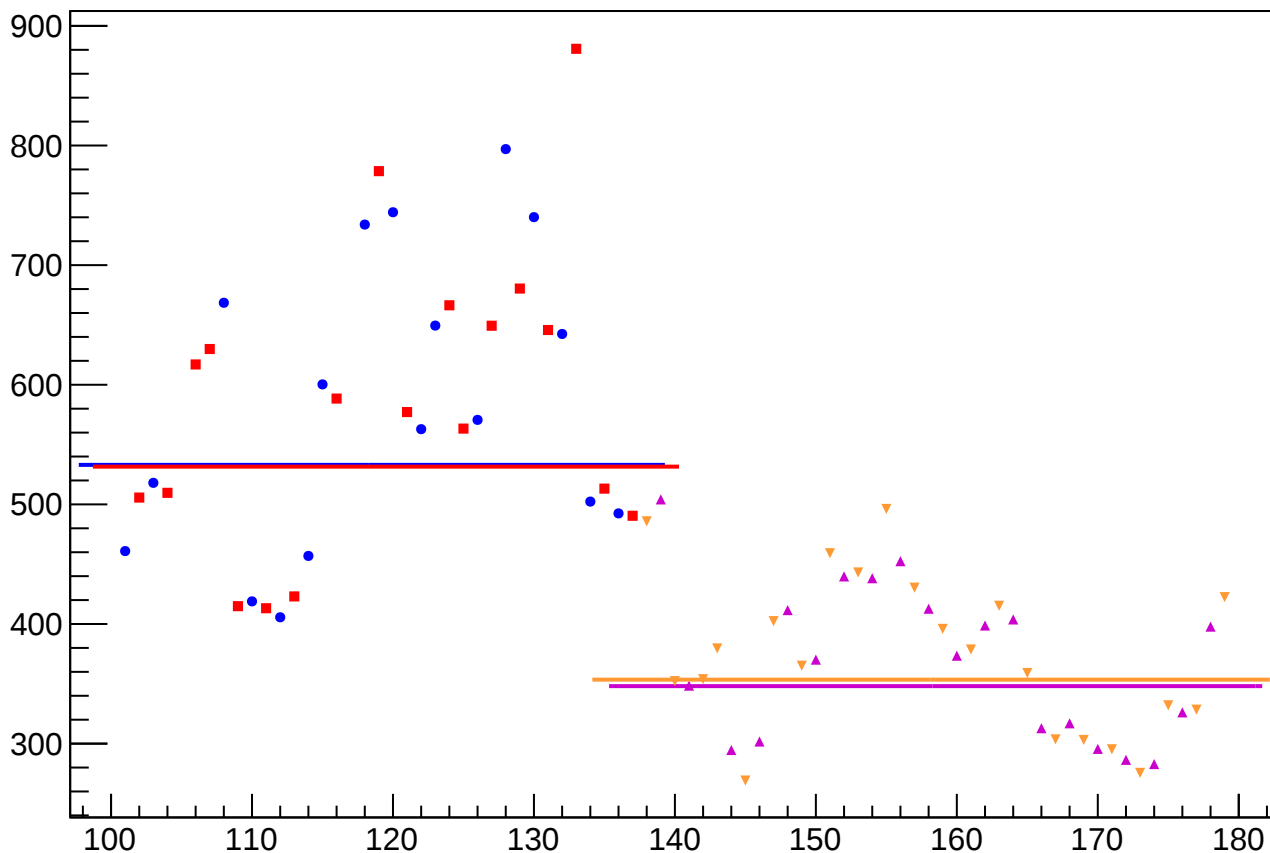
Right: -59.066 $\pm$ 147.453  $\chi^2$ /NDF: 33.5/34

In: -8.406 $\pm$ 82.293  $\chi^2$ /NDF:45.7/36

Out: 398.409 $\pm$ 80.836  $\chi^2$ /NDF:73.5/39

All: 198.634 $\pm$ 57.668  $\chi^2$ /NDF: 131.6/76

asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 533.031+/-0.150  $\chi^2/\text{NDF}$ : 566851.1/16

Left Out: 353.497+/-0.062  $\chi^2/\text{NDF}$ : 1001715.8/21

Right Out: 531.559+/-0.145  $\chi^2/\text{NDF}$ : 597920.9/17

Left In: 348.065+/-0.063  $\chi^2/\text{NDF}$ : 879083.7/19

Left: 350.825+/-0.044  $\chi^2/\text{NDF}$ : 1884556.5/41

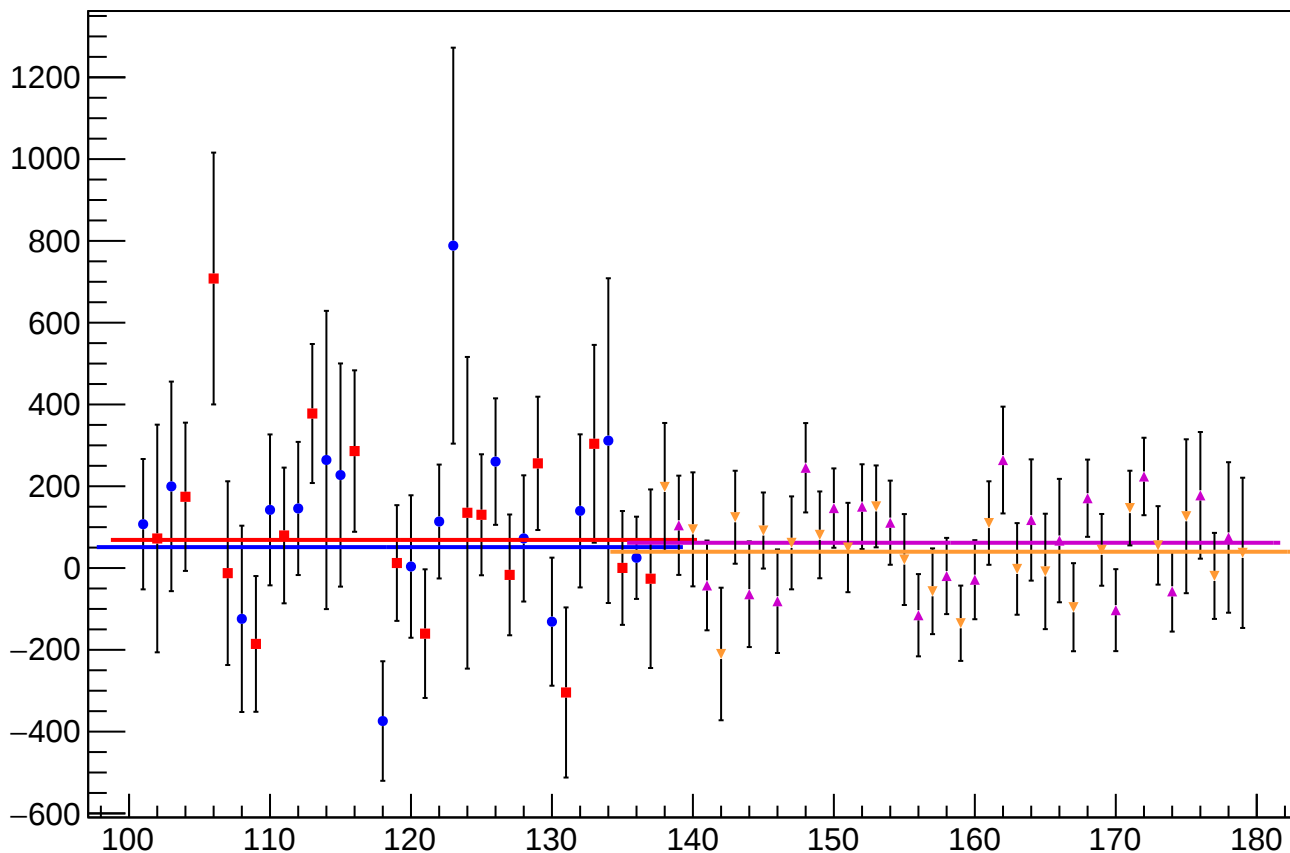
Right: 532.275+/-0.104  $\chi^2/\text{NDF}$ : 1164821.8/34

In: 376.073+/-0.058  $\chi^2/\text{NDF}$ : 2744215.8/36

Out: 380.996+/-0.057  $\chi^2/\text{NDF}$ : 2866854.6/39

All: 378.579+/-0.041  $\chi^2/\text{NDF}$ : 5614713.2/76

dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 39.869 $\pm$ 23.691  $\chi^2$ /NDF:14.6/21

Right Out: 68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

Left In: 61.782 $\pm$ 24.863  $\chi^2$ /NDF:24.1/19

Left: 50.297 $\pm$ 17.152  $\chi^2$ /NDF: 39.0/41

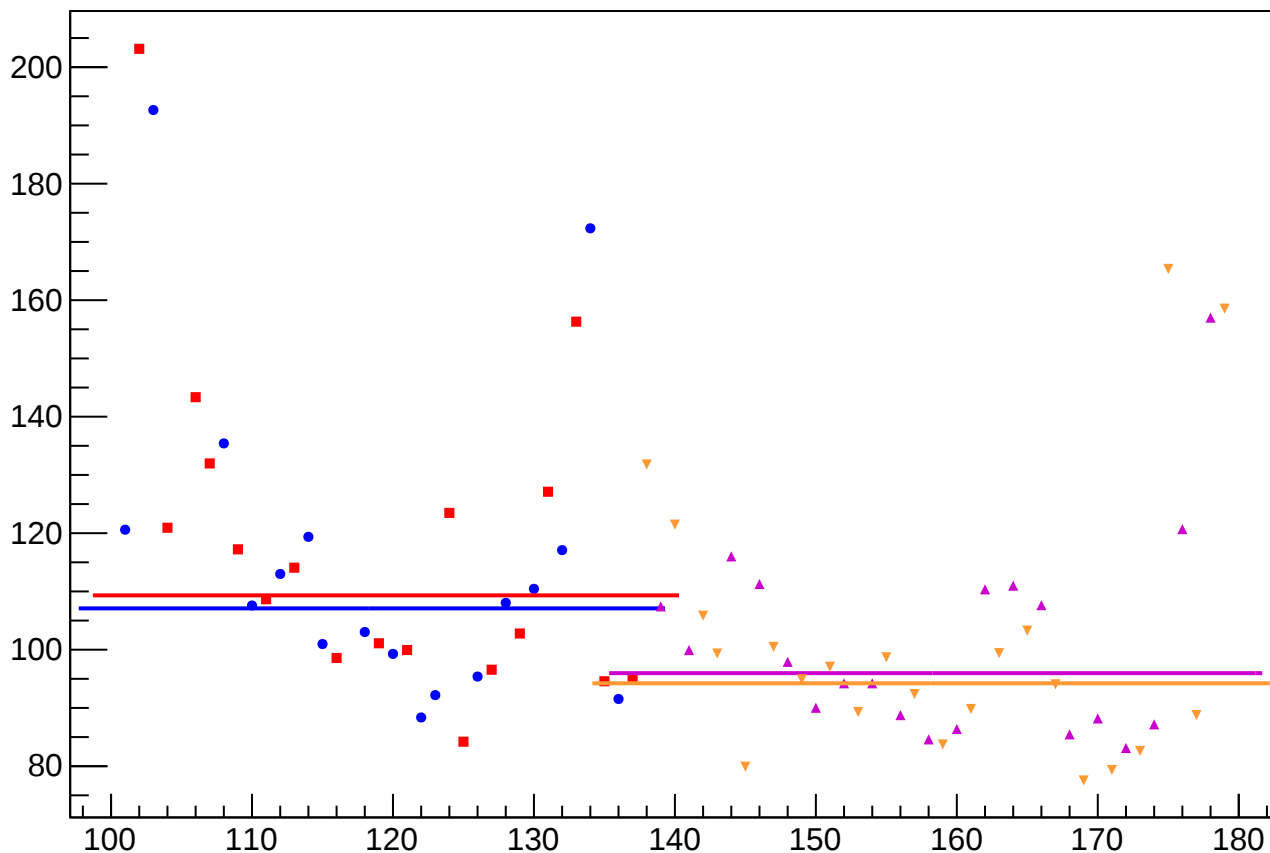
Right: 59.892 $\pm$ 30.129  $\chi^2$ /NDF: 37.8/34

In: 59.067 $\pm$ 21.450  $\chi^2$ /NDF:41.5/36

Out: 46.649 $\pm$ 20.728  $\chi^2$ /NDF:35.3/39

All: 52.645 $\pm$ 14.906  $\chi^2$ /NDF: 77.0/76

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 94.235 $\pm$ 0.017  $\chi^2$ /NDF:1002533.7/21

Right Out: 109.329 $\pm$ 0.030  $\chi^2$ /NDF: 506023.6/17

Left In: 95.973 $\pm$ 0.018  $\chi^2$ /NDF:584005.1/19

Left: 95.062 $\pm$ 0.012  $\chi^2$ /NDF: 1591661.4/41

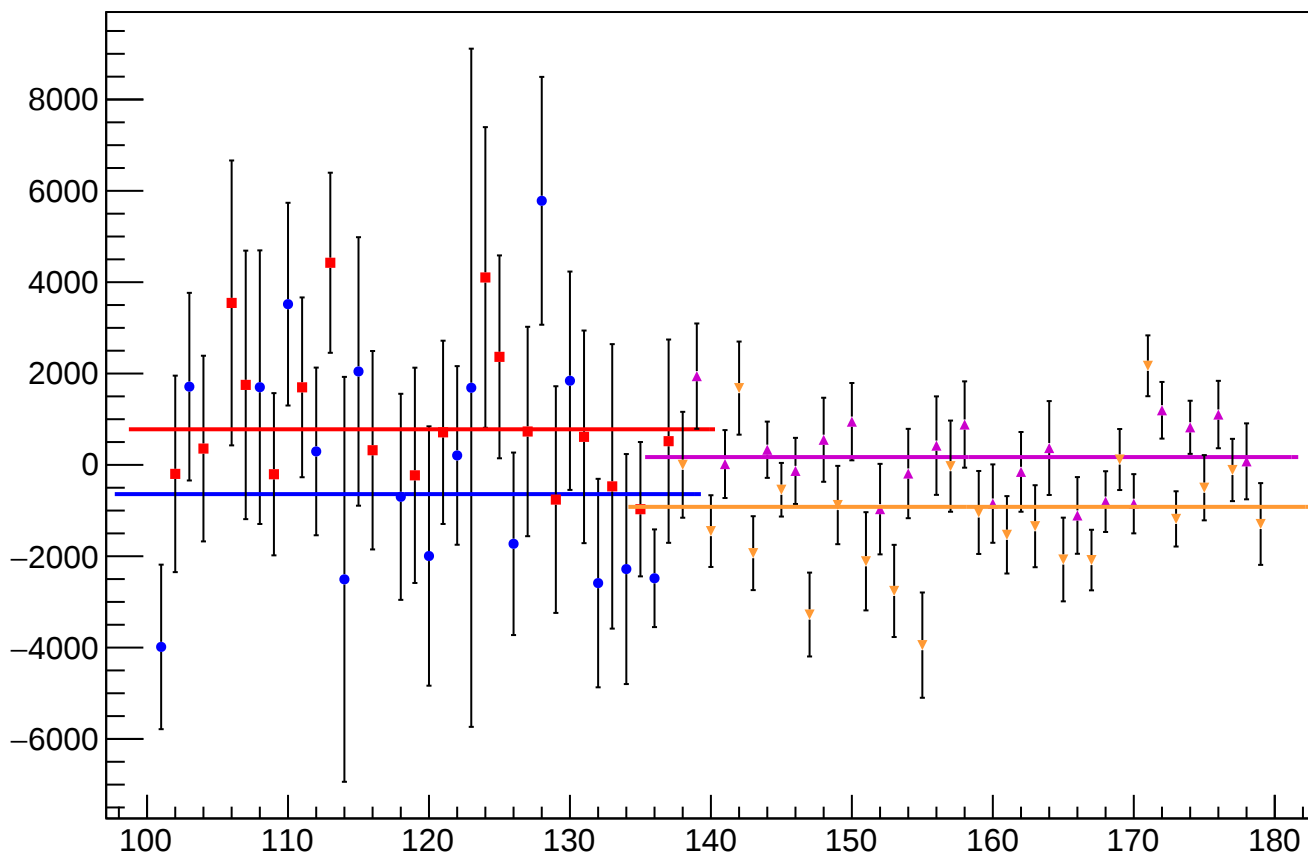
Right: 108.201 $\pm$ 0.021  $\chi^2$ /NDF: 946531.4/34

In: 98.817 $\pm$ 0.015  $\chi^2$ /NDF:1124083.2/36

Out: 97.775 $\pm$ 0.015  $\chi^2$ /NDF:1698947.1/39

All: 98.278 $\pm$ 0.011  $\chi^2$ /NDF: 2825472.1/76

asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-639.847 \pm 519.248$   $\chi^2/\text{NDF}: 21.8/16$

Left Out:  $-918.800 \pm 171.993$   $\chi^2/\text{NDF}: 59.9/21$

Right Out:  $779.450 \pm 516.450$   $\chi^2/\text{NDF}: 8.8/17$

Left In:  $171.190 \pm 176.116$   $\chi^2/\text{NDF}: 19.9/19$

Left:  $-386.713 \pm 123.049$   $\chi^2/\text{NDF}: 99.3/41$

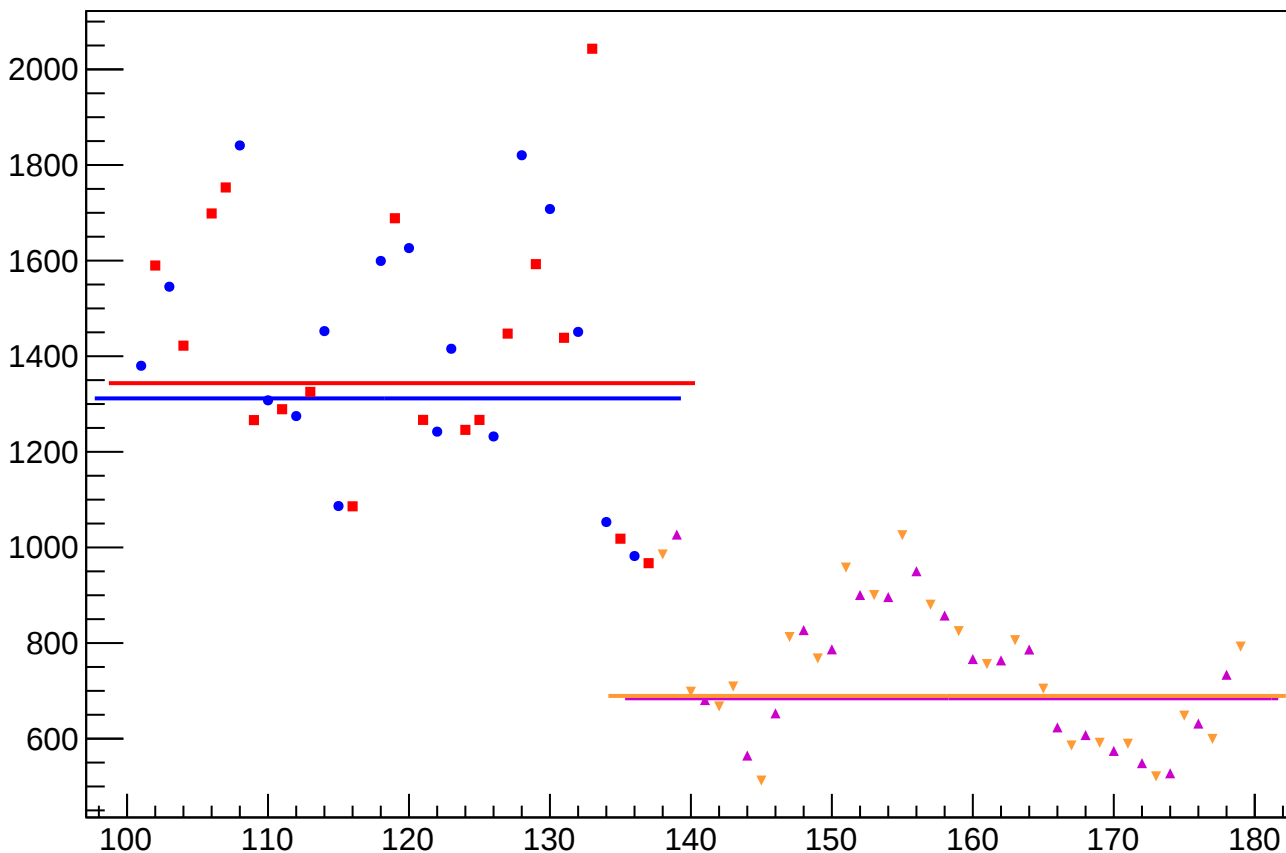
Right:  $73.635 \pm 366.171$   $\chi^2/\text{NDF}: 34.4/34$

In:  $87.514 \pm 166.784$   $\chi^2/\text{NDF}: 43.8/36$

Out:  $-749.254 \pm 163.182$   $\chi^2/\text{NDF}: 78.4/39$

All:  $-340.003 \pm 116.639$   $\chi^2/\text{NDF}: 135.1/76$

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1311.795 $\pm$ 0.367  $\chi^2$ /NDF: 512676.0/16

Left Out: 689.394 $\pm$ 0.122  $\chi^2$ /NDF: 1273598.5/21

Right Out: 1343.659 $\pm$ 0.365  $\chi^2$ /NDF: 461009.9/17

Left In: 684.438 $\pm$ 0.125  $\chi^2$ /NDF: 1118673.0/19

Left: 686.975 $\pm$ 0.087  $\chi^2$ /NDF: 2393082.0/41

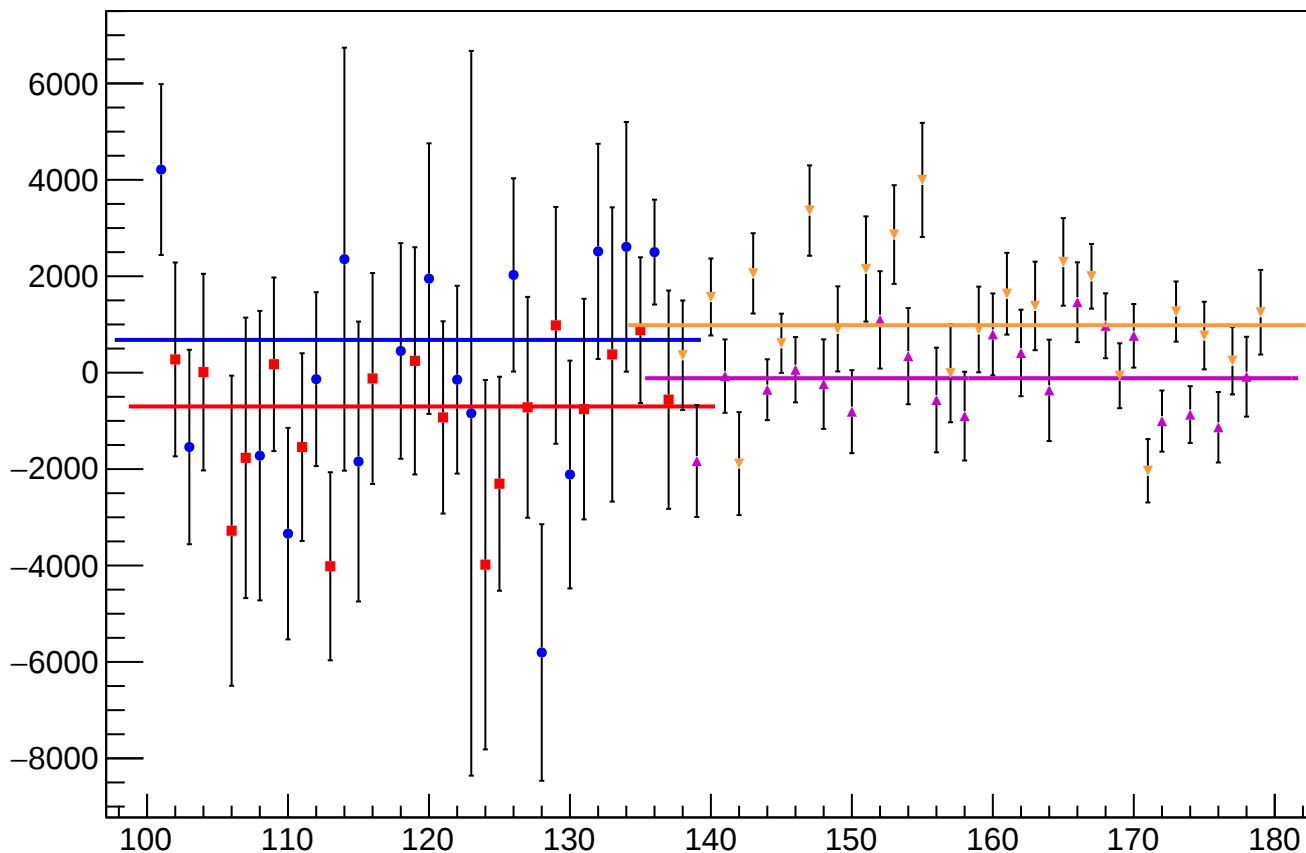
Right: 1327.813 $\pm$ 0.259  $\chi^2$ /NDF: 977472.0/34

In: 749.163 $\pm$ 0.118  $\chi^2$ /NDF: 4249647.8/36

Out: 754.713 $\pm$ 0.115  $\chi^2$ /NDF: 4623973.9/39

All: 751.998 $\pm$ 0.082  $\chi^2$ /NDF: 8874753.1/76

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In:  $679.925 \pm 517.508$   $\chi^2/\text{NDF}: 22.6/16$

Left Out:  $984.302 \pm 174.163$   $\chi^2/\text{NDF}: 58.7/21$

Right Out:  $-700.930 \pm 517.319$   $\chi^2/\text{NDF}: 7.6/17$

Left In:  $-114.285 \pm 177.142$   $\chi^2/\text{NDF}: 20.7/19$

Left:  $444.322 \pm 124.192$   $\chi^2/\text{NDF}: 99.0/41$

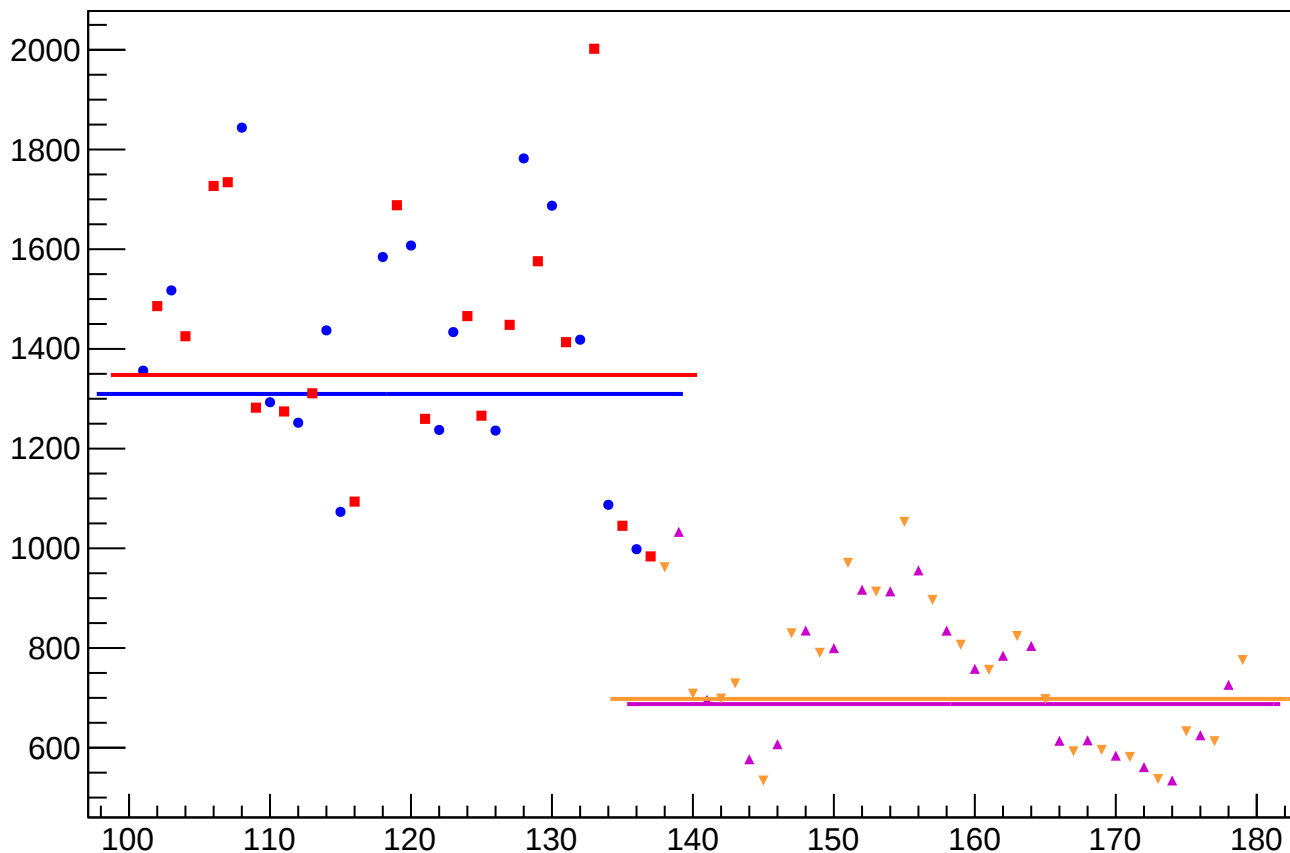
Right:  $-10.753 \pm 365.867$   $\chi^2/\text{NDF}: 33.8/34$

In:  $-30.989 \pm 167.595$   $\chi^2/\text{NDF}: 45.4/36$

Out:  $812.738 \pm 165.060$   $\chi^2/\text{NDF}: 75.9/39$

All:  $397.305 \pm 117.601$   $\chi^2/\text{NDF}: 134.1/76$

asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1309.654 $\pm$ 0.366  $\chi^2$ /NDF: 459314.8/16

Left Out: 697.918 $\pm$ 0.123  $\chi^2$ /NDF: 1215116.9/21

Right Out: 1347.768 $\pm$ 0.366  $\chi^2$ /NDF: 405345.0/17

Left In: 687.536 $\pm$ 0.125  $\chi^2$ /NDF: 1114829.3/19

Left: 692.815 $\pm$ 0.088  $\chi^2$ /NDF: 2333439.2/41

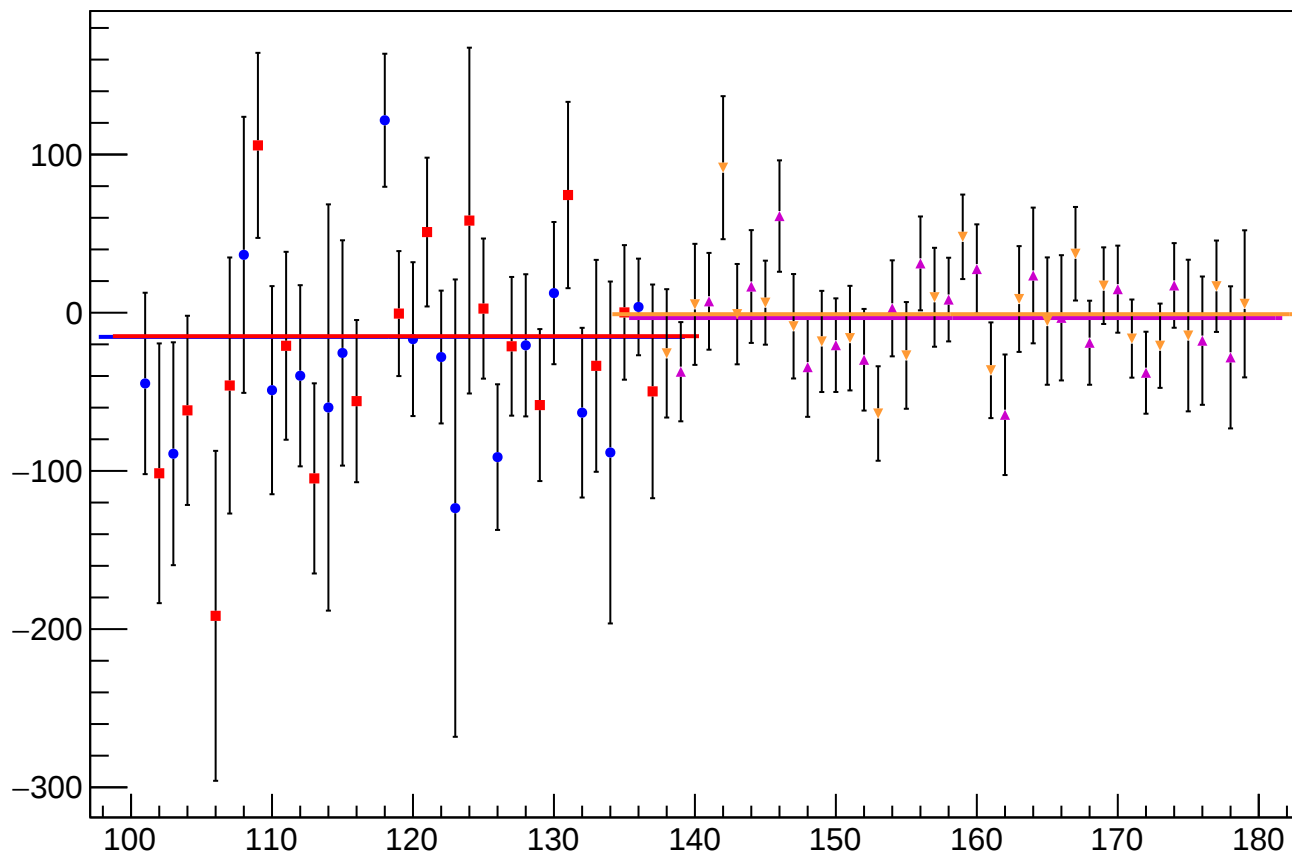
Right: 1328.718 $\pm$ 0.259  $\chi^2$ /NDF: 870085.9/34

In: 752.783 $\pm$ 0.119  $\chi^2$ /NDF: 4161302.9/36

Out: 764.075 $\pm$ 0.117  $\chi^2$ /NDF: 4455177.1/39

All: 758.515 $\pm$ 0.083  $\chi^2$ /NDF: 8621088.7/76

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In:  $-15.281 \pm 12.907$   $\chi^2/\text{NDF}$ : 18.3/16

Left Out:  $-0.935 \pm 6.738$   $\chi^2/\text{NDF}$ : 18.8/21

Right Out:  $-14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

Left In:  $-3.357 \pm 7.017$   $\chi^2/\text{NDF}$ : 16.3/19

Left:  $-2.097 \pm 4.860$   $\chi^2/\text{NDF}$ : 35.2/41

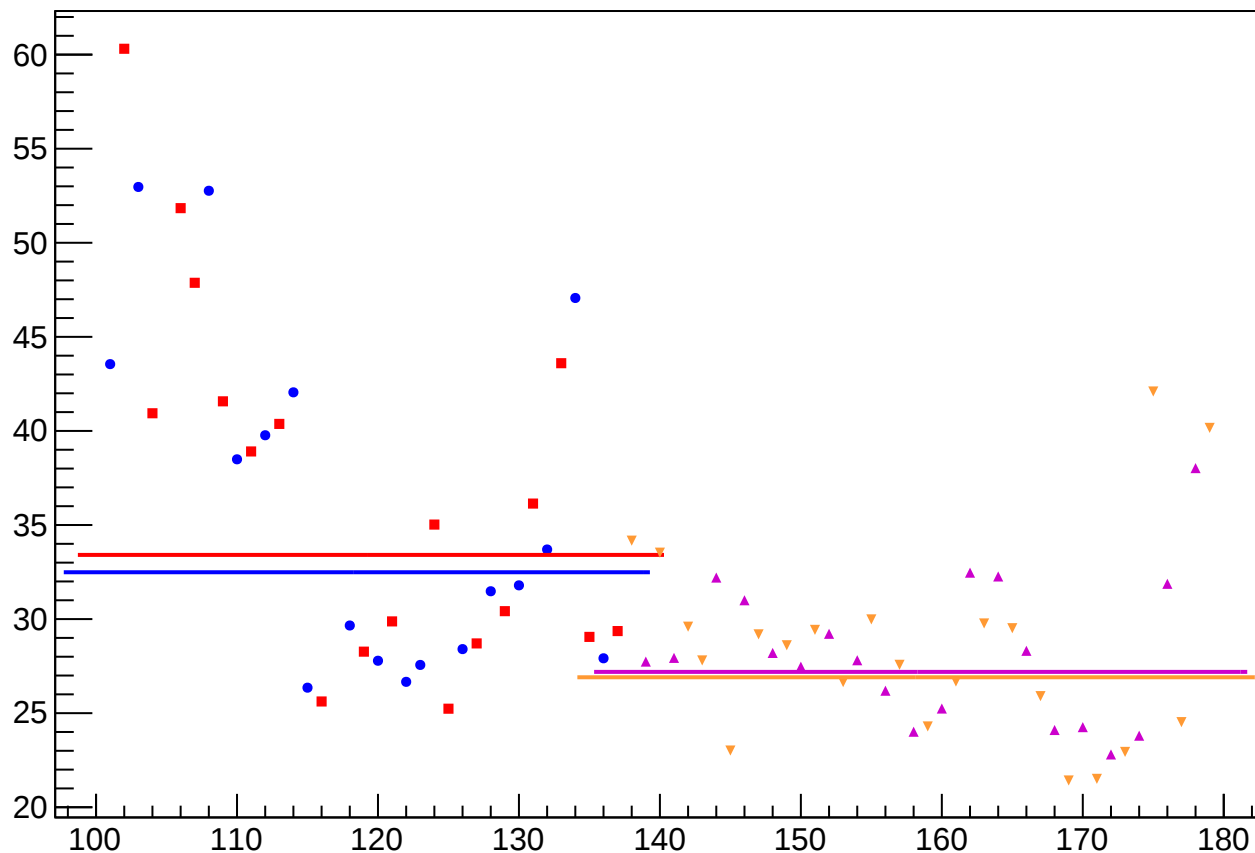
Right:  $-15.063 \pm 9.193$   $\chi^2/\text{NDF}$ : 36.5/34

In:  $-6.077 \pm 6.165$   $\chi^2/\text{NDF}$ : 35.3/36

Out:  $-3.845 \pm 5.992$   $\chi^2/\text{NDF}$ : 37.9/39

All:  $-4.929 \pm 4.297$   $\chi^2/\text{NDF}$ : 73.2/76

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 32.489+/-0.009  $\chi^2/\text{NDF}$ : 594480.9/16

Left Out: 26.907+/-0.005  $\chi^2/\text{NDF}$ : 884311.1/21

Right Out: 33.411+/-0.009  $\chi^2/\text{NDF}$ : 725189.8/17

Left In: 27.194+/-0.005  $\chi^2/\text{NDF}$ : 466512.2/19

Left: 27.045+/-0.003  $\chi^2/\text{NDF}$ : 1352563.8/41

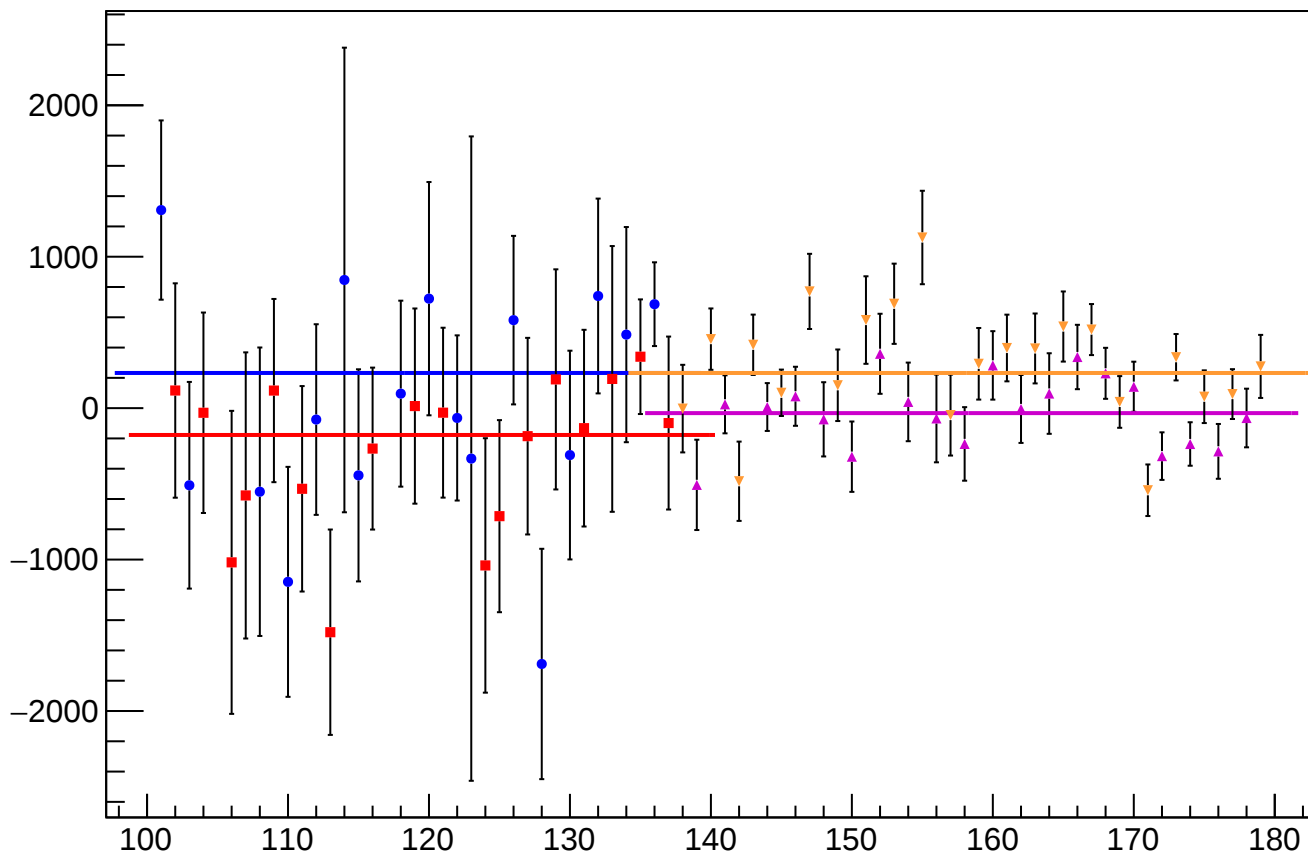
Right: 32.943+/-0.007  $\chi^2/\text{NDF}$ : 1324698.1/34

In: 28.402+/-0.004  $\chi^2/\text{NDF}$ : 1320797.7/36

Out: 28.268+/-0.004  $\chi^2/\text{NDF}$ : 1999494.2/39

All: 28.333+/-0.003  $\chi^2/\text{NDF}$ : 3320777.3/76

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $232.332 \pm 148.607$   $\chi^2/\text{NDF}$ : 21.5/16

Left Out:  $232.233 \pm 43.888$   $\chi^2/\text{NDF}$ : 59.4/21

Right Out:  $-177.151 \pm 150.003$   $\chi^2/\text{NDF}$ : 9.6/17

Left In:  $-32.797 \pm 45.092$   $\chi^2/\text{NDF}$ : 23.6/19

Left:  $103.302 \pm 31.451$   $\chi^2/\text{NDF}$ : 100.8/41

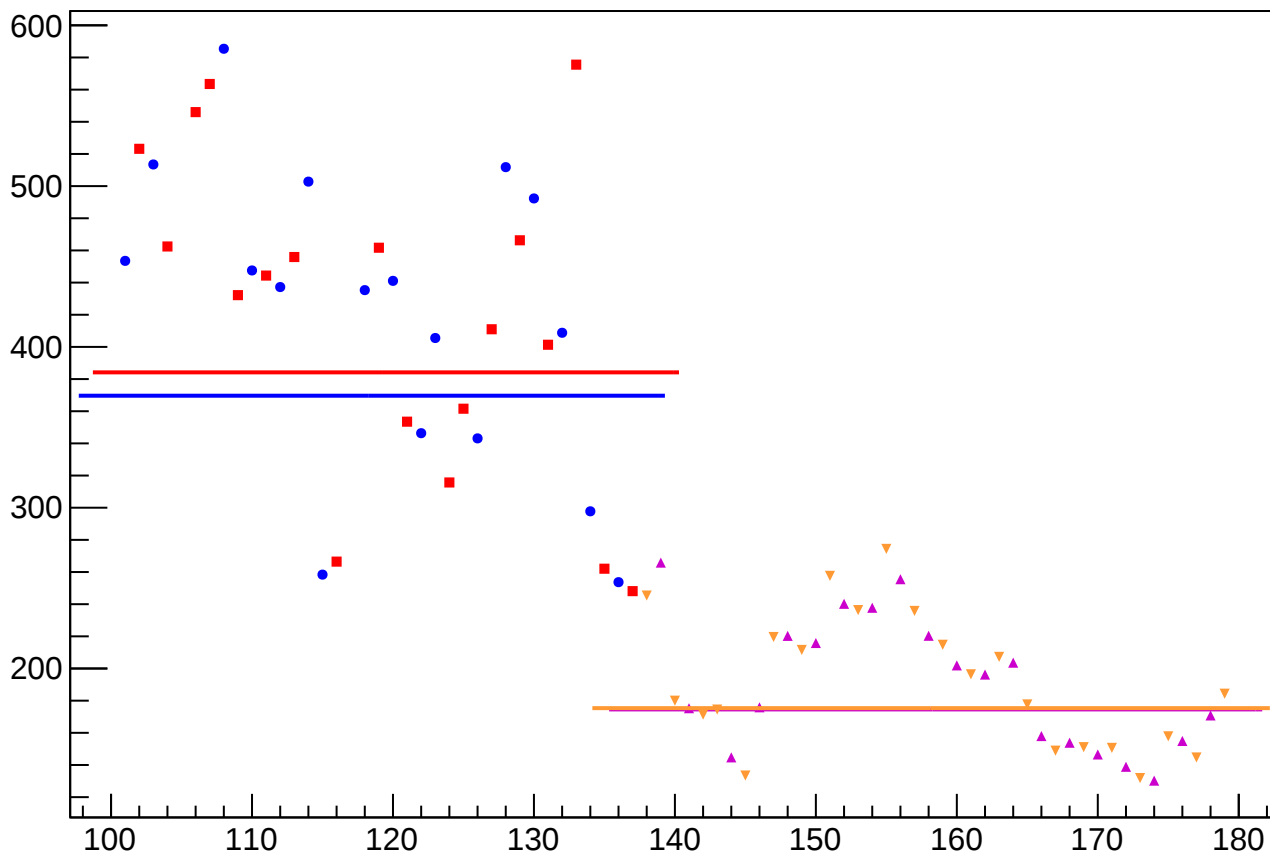
Right:  $29.504 \pm 105.571$   $\chi^2/\text{NDF}$ : 34.8/34

In:  $-10.444 \pm 43.149$   $\chi^2/\text{NDF}$ : 48.0/36

Out:  $199.951 \pm 42.122$   $\chi^2/\text{NDF}$ : 75.9/39

All:  $97.287 \pm 30.142$   $\chi^2/\text{NDF}$ : 136.0/76

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 369.650 $\pm$ 0.105  $\chi^2$ /NDF: 902775.2/16

Left Out: 175.349 $\pm$ 0.031  $\chi^2$ /NDF:1453820.2/21

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

Left In: 174.552 $\pm$ 0.032  $\chi^2$ /NDF:1350642.2/19

Left: 174.961 $\pm$ 0.022  $\chi^2$ /NDF: 2804782.9/41

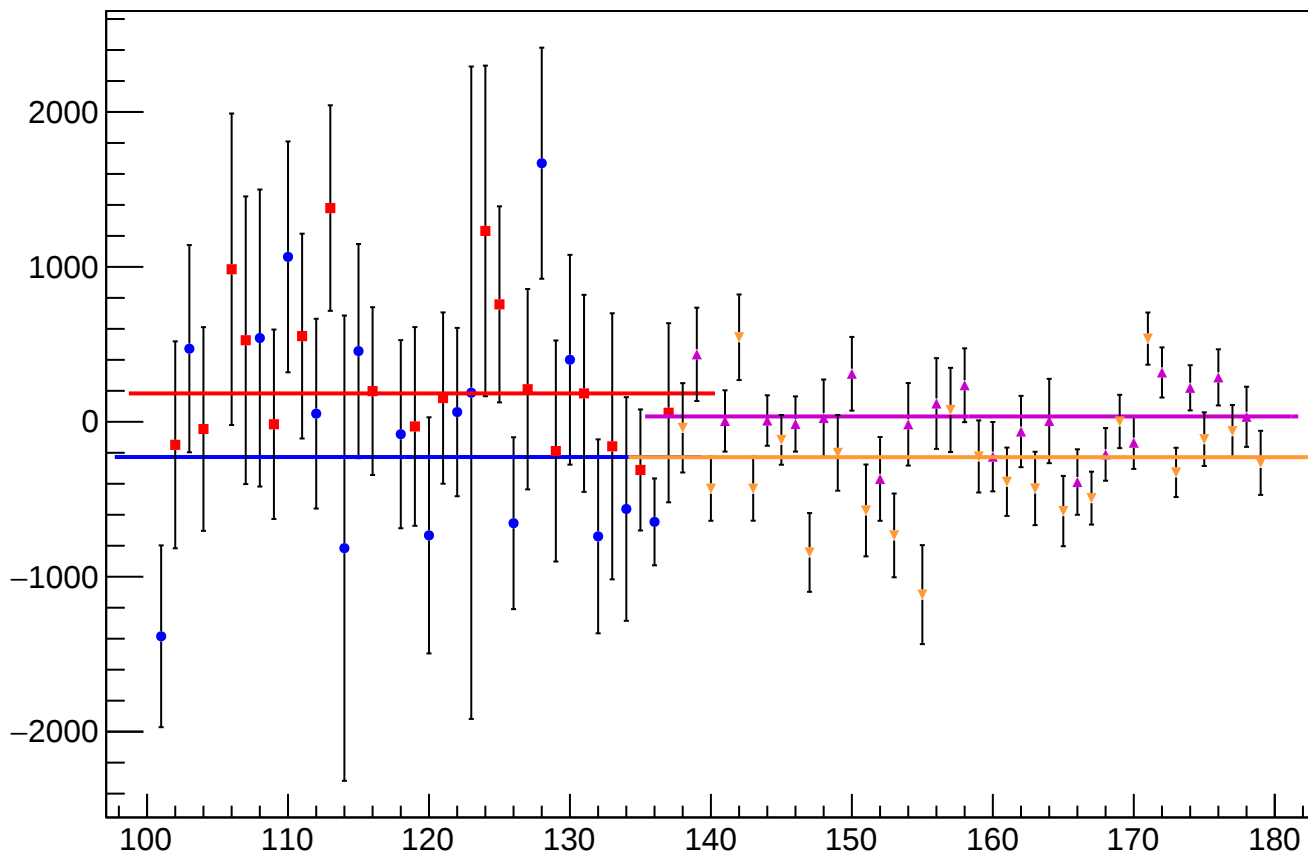
Right: 376.842 $\pm$ 0.075  $\chi^2$ /NDF: 1787228.1/34

In: 191.001 $\pm$ 0.031  $\chi^2$ /NDF:5409891.1/36

Out: 191.816 $\pm$ 0.030  $\chi^2$ /NDF:5899170.0/39

All: 191.418 $\pm$ 0.021  $\chi^2$ /NDF: 11309426.4/76

asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -227.279+/-147.923  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: -228.236+/-44.627  $\chi^2/\text{NDF}$ : 60.7/21

Right Out: 183.318+/-150.486  $\chi^2/\text{NDF}$ : 8.8/17

Left In: 34.572+/-45.500  $\chi^2/\text{NDF}$ : 21.5/19

Left: -99.378+/-31.860  $\chi^2/\text{NDF}$ : 99.2/41

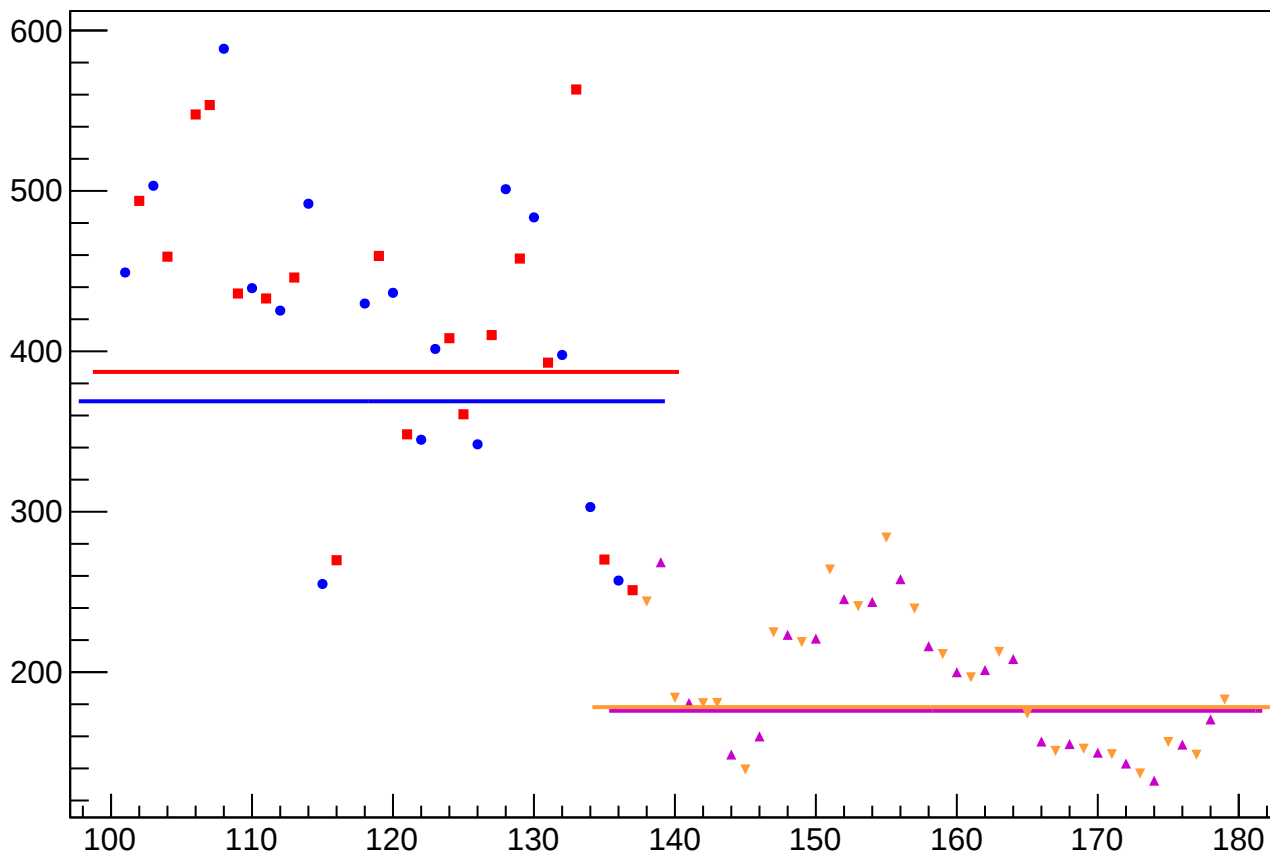
Right: -25.507+/-105.492  $\chi^2/\text{NDF}$ : 34.4/34

In: 11.939+/-43.489  $\chi^2/\text{NDF}$ : 46.2/36

Out: -194.968+/-42.786  $\chi^2/\text{NDF}$ : 76.3/39

All: -93.203+/-30.500  $\chi^2/\text{NDF}$ : 134.1/76

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 368.864+/-0.105  $\chi^2/\text{NDF}$ : 829732.0/16

Left Out: 178.211+/-0.032  $\chi^2/\text{NDF}$ : 1426963.2/21

Right Out: 387.165+/-0.106  $\chi^2/\text{NDF}$ : 758108.0/17

Left In: 175.947+/-0.032  $\chi^2/\text{NDF}$ : 1341262.3/19

Left: 177.101+/-0.023  $\chi^2/\text{NDF}$ : 2770750.2/41

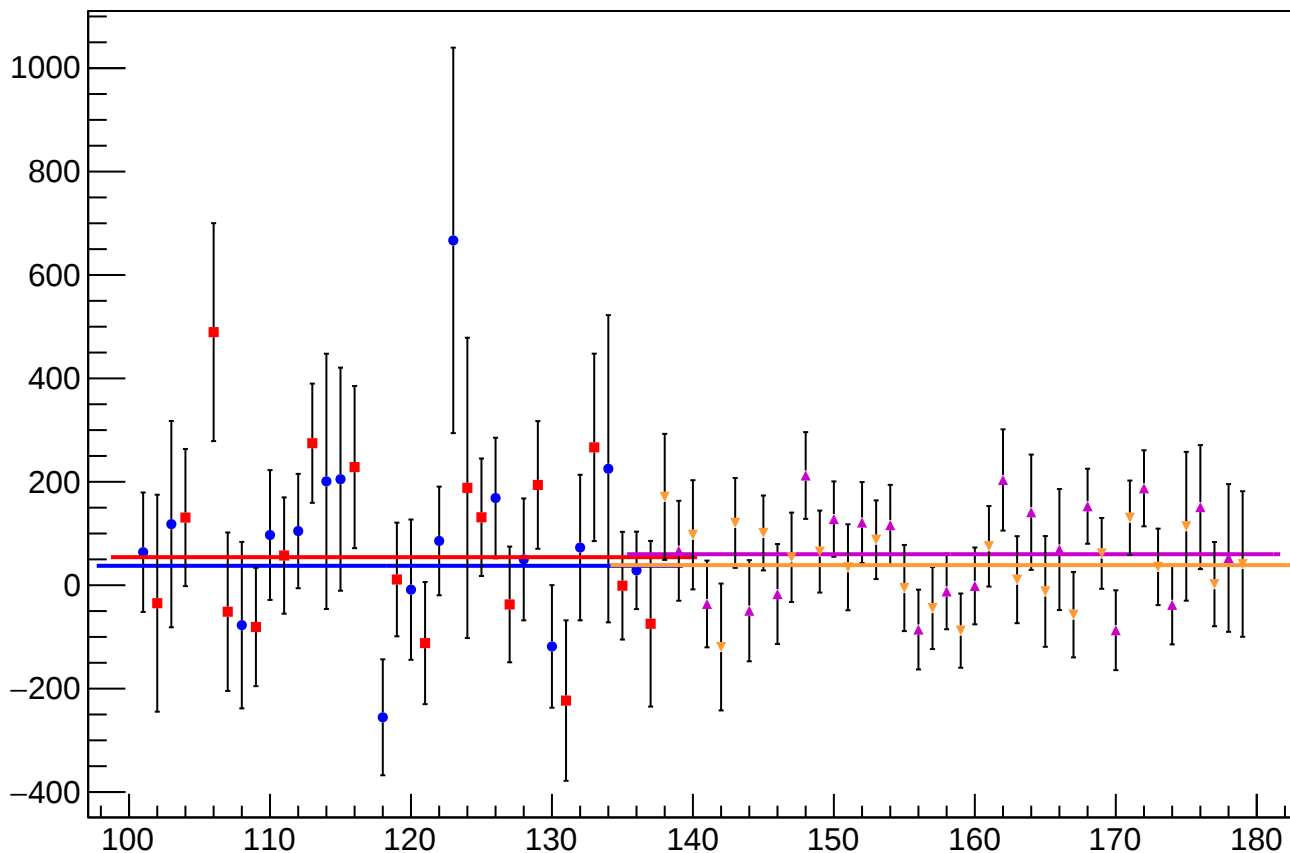
Right: 377.857+/-0.075  $\chi^2/\text{NDF}$ : 1602884.1/34

In: 192.622+/-0.031  $\chi^2/\text{NDF}$ : 5278687.6/36

Out: 195.102+/-0.030  $\chi^2/\text{NDF}$ : 5729361.6/39

All: 193.882+/-0.022  $\chi^2/\text{NDF}$ : 11011354.4/76

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 37.535 $\pm$ 31.460  $\chi^2$ /NDF: 15.8/16

Left Out: 38.853 $\pm$ 18.157  $\chi^2$ /NDF:13.9/21

Right Out: 54.274 $\pm$ 31.489  $\chi^2$ /NDF: 21.8/17

Left In: 59.961 $\pm$ 19.087  $\chi^2$ /NDF:26.9/19

Left: 48.880 $\pm$ 13.155  $\chi^2$ /NDF: 41.5/41

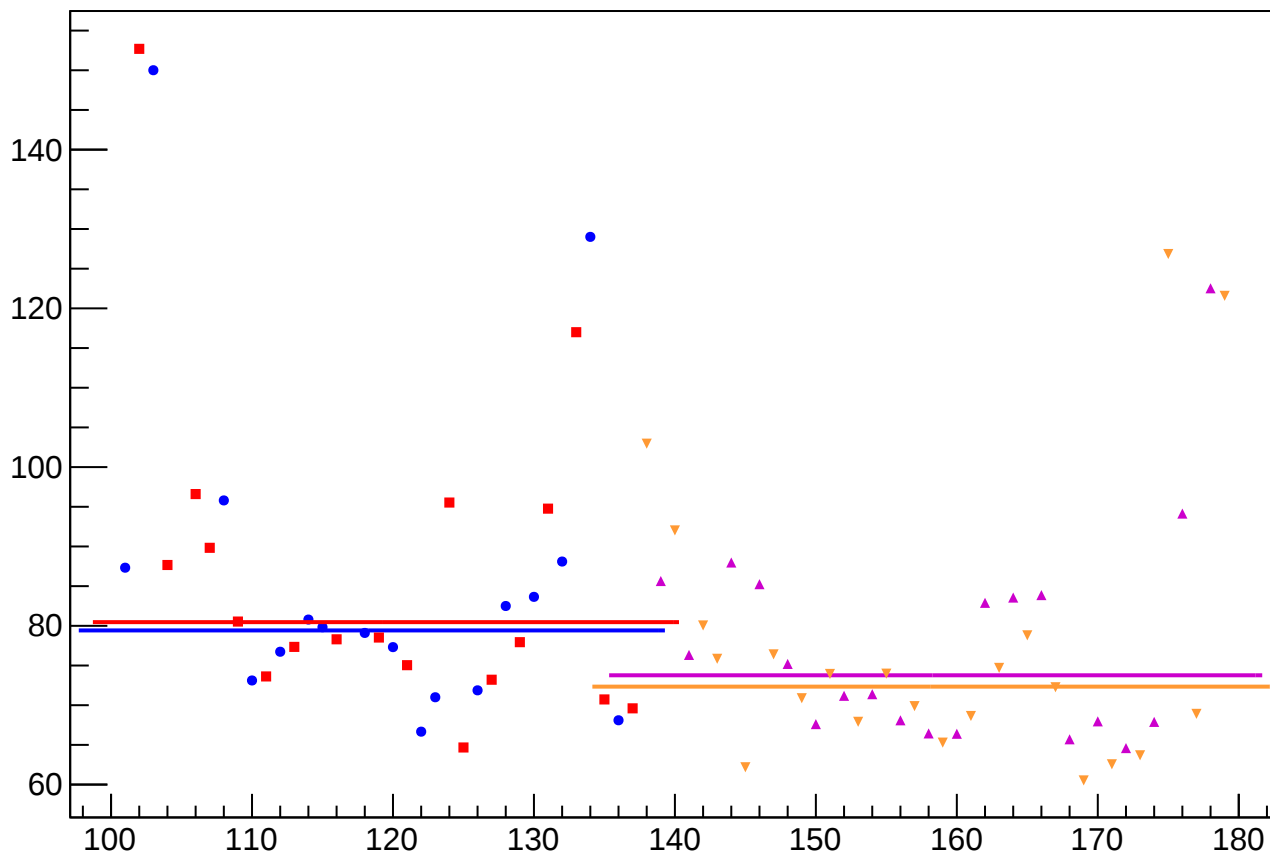
Right: 45.897 $\pm$ 22.256  $\chi^2$ /NDF: 37.8/34

In: 53.928 $\pm$ 16.318  $\chi^2$ /NDF:43.1/36

Out: 42.700 $\pm$ 15.730  $\chi^2$ /NDF:35.9/39

All: 48.108 $\pm$ 11.325  $\chi^2$ /NDF: 79.3/76

dit\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 79.421 $\pm$ 0.022  $\chi^2$ /NDF: 439047.1/16

Left Out: 72.340 $\pm$ 0.013  $\chi^2$ /NDF: 953666.4/21

Right Out: 80.465 $\pm$ 0.022  $\chi^2$ /NDF: 454376.0/17

Left In: 73.769 $\pm$ 0.013  $\chi^2$ /NDF: 589257.0/19

Left: 73.019 $\pm$ 0.009  $\chi^2$ /NDF: 1548810.6/41

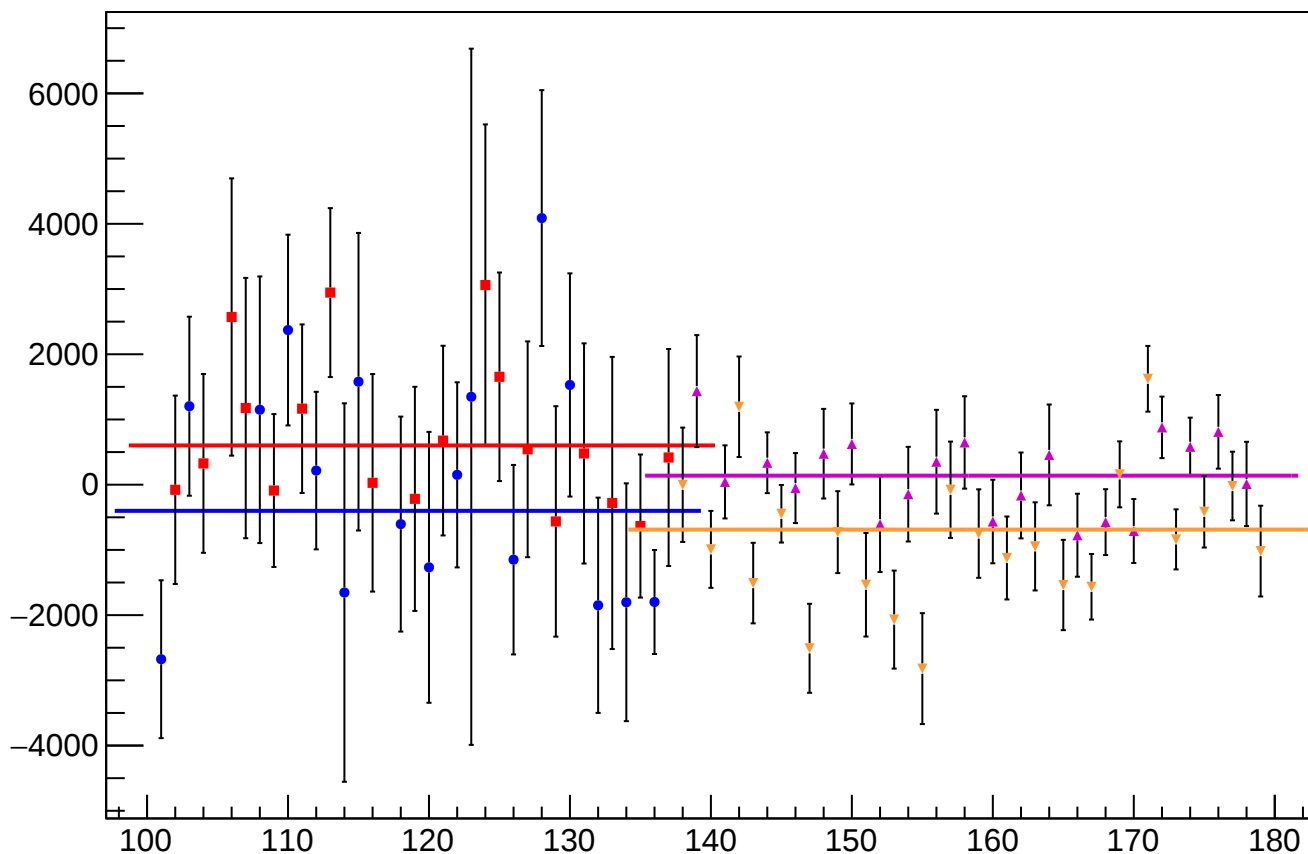
Right: 79.943 $\pm$ 0.016  $\chi^2$ /NDF: 894523.3/34

In: 75.290 $\pm$ 0.012  $\chi^2$ /NDF: 1075491.1/36

Out: 74.367 $\pm$ 0.011  $\chi^2$ /NDF: 1507981.9/39

All: 74.812 $\pm$ 0.008  $\chi^2$ /NDF: 2586786.0/76

asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -401.047+/-368.480  $\chi^2/\text{NDF}$ : 21.9/16

Left Out: -688.304+/-129.841  $\chi^2/\text{NDF}$ : 58.7/21

Right Out: 601.891+/-363.668  $\chi^2/\text{NDF}$ : 8.7/17

Left In: 138.502+/-132.854  $\chi^2/\text{NDF}$ : 18.8/19

Left: -284.382+/-92.858  $\chi^2/\text{NDF}$ : 97.3/41

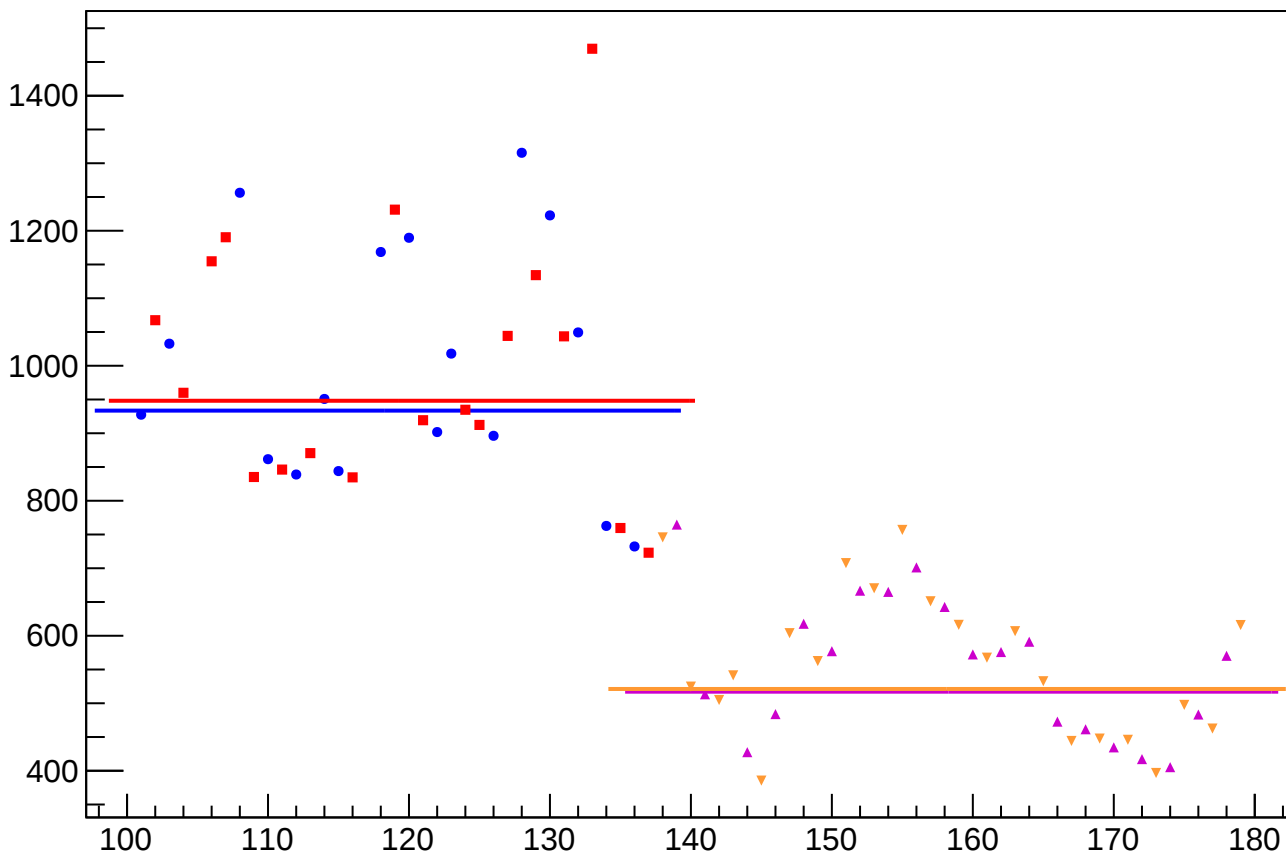
Right: 107.014+/-258.836  $\chi^2/\text{NDF}$ : 34.4/34

In: 76.433+/-124.979  $\chi^2/\text{NDF}$ : 42.6/36

Out: -542.434+/-122.281  $\chi^2/\text{NDF}$ : 78.6/39

All: -239.752+/-87.404  $\chi^2/\text{NDF}$ : 133.7/76

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 933.530+/-0.261  $\chi^2/\text{NDF}$ : 442321.9/16

Left Out: 521.167+/-0.092  $\chi^2/\text{NDF}$ : 1193694.6/21

Right Out: 948.131+/-0.257  $\chi^2/\text{NDF}$ : 405153.7/17

Left In: 517.159+/-0.094  $\chi^2/\text{NDF}$ : 1020907.0/19

Left: 519.209+/-0.066  $\chi^2/\text{NDF}$ : 2215532.7/41

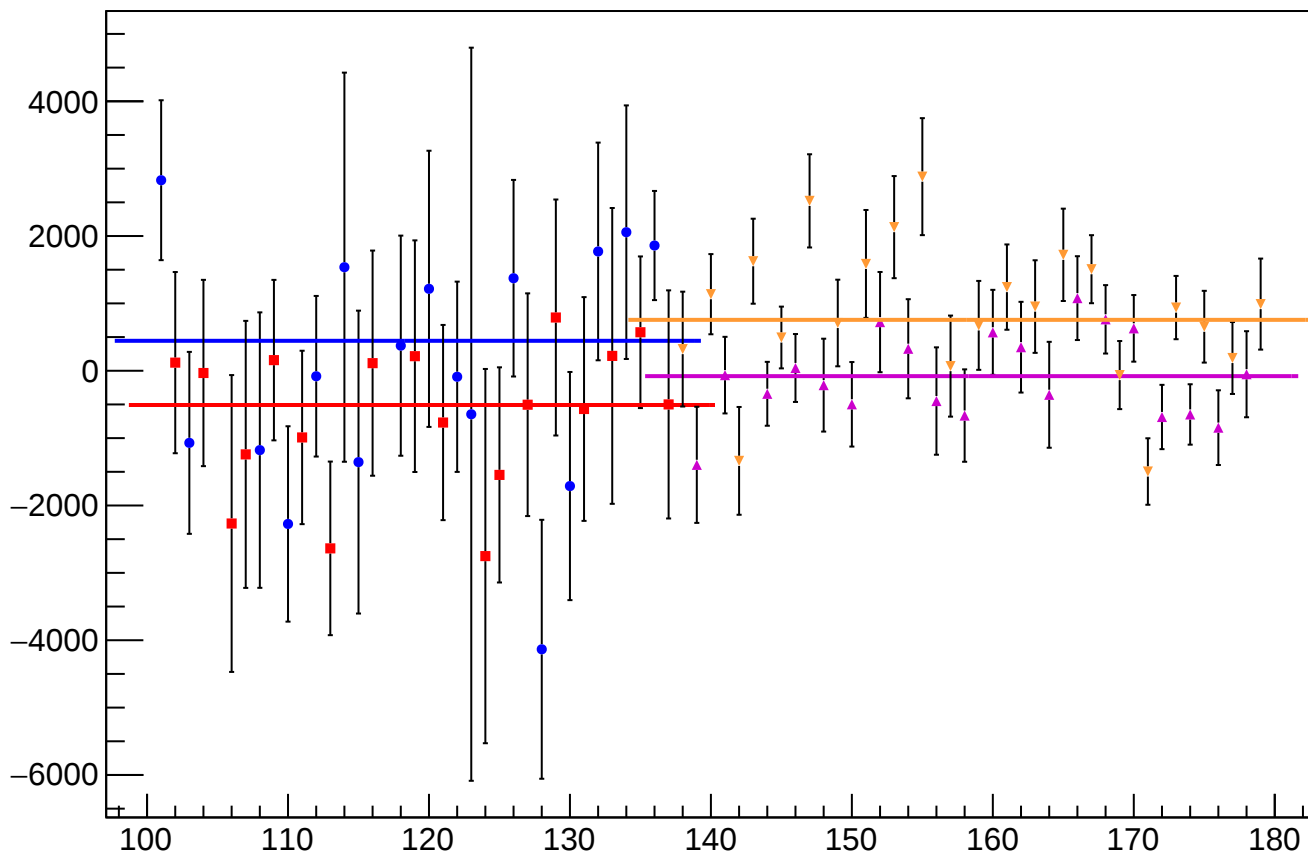
Right: 940.927+/-0.183  $\chi^2/\text{NDF}$ : 849066.3/34

In: 565.058+/-0.088  $\chi^2/\text{NDF}$ : 3723125.4/36

Out: 569.440+/-0.086  $\chi^2/\text{NDF}$ : 4043954.0/39

All: 567.297+/-0.062  $\chi^2/\text{NDF}$ : 7768335.5/76

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 444.669+/-367.099  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 755.693+/-130.538  $\chi^2/\text{NDF}$ : 57.2/21

Right Out: -508.221+/-364.112  $\chi^2/\text{NDF}$ : 7.3/17

Left In: -79.824+/-132.711  $\chi^2/\text{NDF}$ : 20.6/19

Left: 344.830+/-93.063  $\chi^2/\text{NDF}$ : 98.0/41

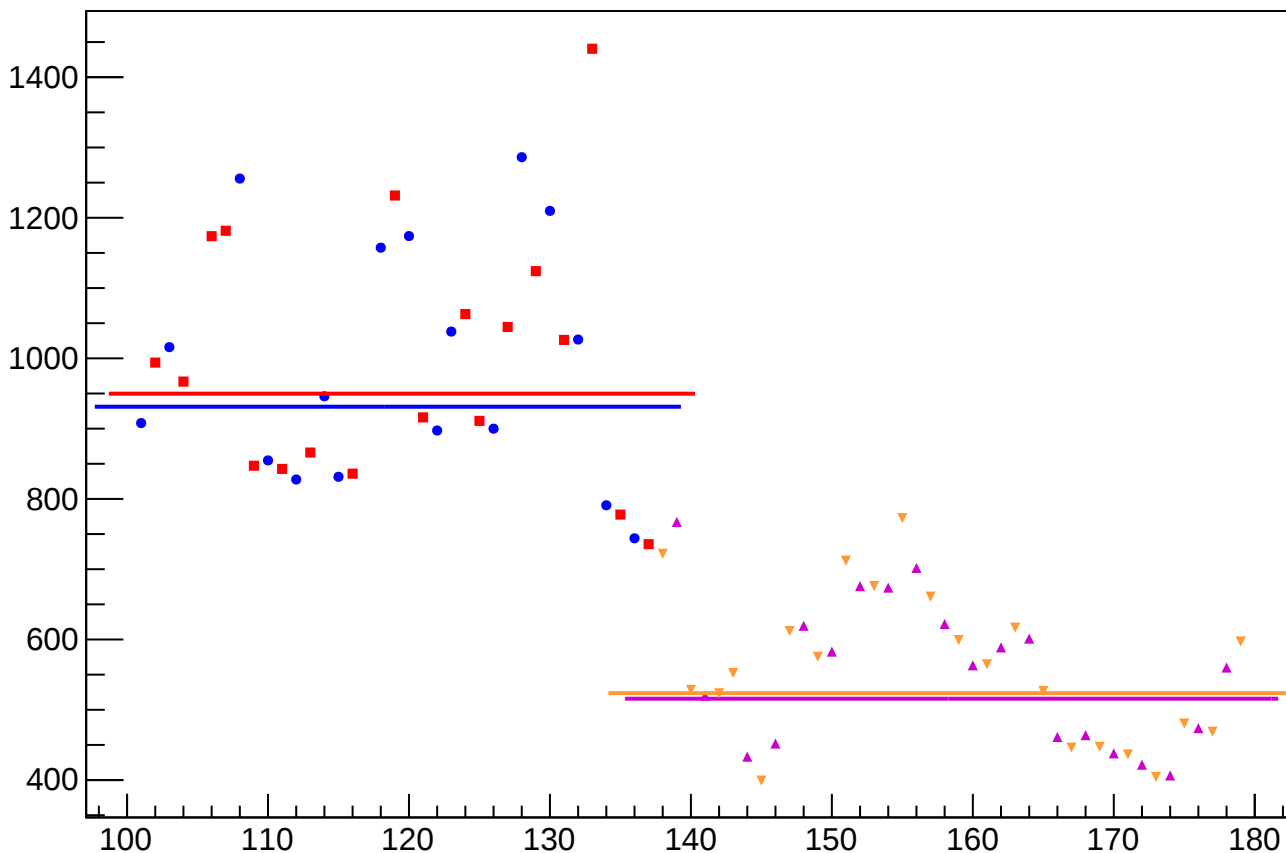
Right: -35.668+/-258.516  $\chi^2/\text{NDF}$ : 33.6/34

In: -19.200+/-124.806  $\chi^2/\text{NDF}$ : 45.3/36

Out: 611.744+/-122.880  $\chi^2/\text{NDF}$ : 75.2/39

All: 301.177+/-87.562  $\chi^2/\text{NDF}$ : 133.5/76

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 931.203 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 400242.2/16

Left Out: 523.729 $\pm$ 0.092  $\chi^2/\text{NDF}$ :1142052.6/21

Right Out: 949.740 $\pm$ 0.257  $\chi^2/\text{NDF}$ : 365550.8/17

Left In: 515.766 $\pm$ 0.094  $\chi^2/\text{NDF}$ :1034442.6/19

Left: 519.814 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 2180154.6/41

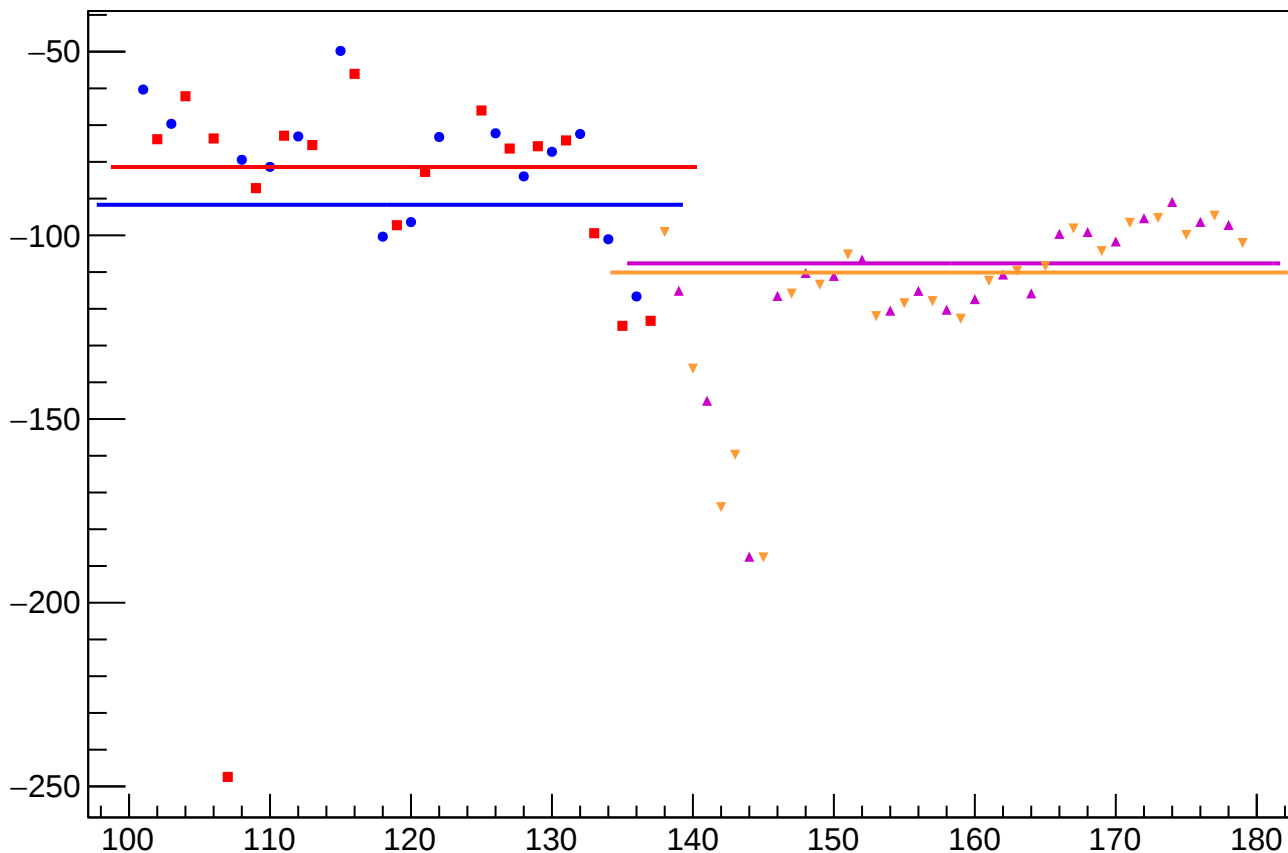
Right: 940.547 $\pm$ 0.183  $\chi^2/\text{NDF}$ : 768363.9/34

In: 563.785 $\pm$ 0.088  $\chi^2/\text{NDF}$ :3700000.5/36

Out: 572.248 $\pm$ 0.087  $\chi^2/\text{NDF}$ :3933593.2/39

All: 568.082 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 7638263.9/76

# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}: 64621.9/14$

Left Out:  $-110.121 \pm 0.055$   $\chi^2/\text{NDF}: 59479.8/21$

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}: 41708.8/16$

Left In:  $-107.633 \pm 0.049$   $\chi^2/\text{NDF}: 108437.6/19$

Left:  $-108.733 \pm 0.036$   $\chi^2/\text{NDF}: 169076.1/41$

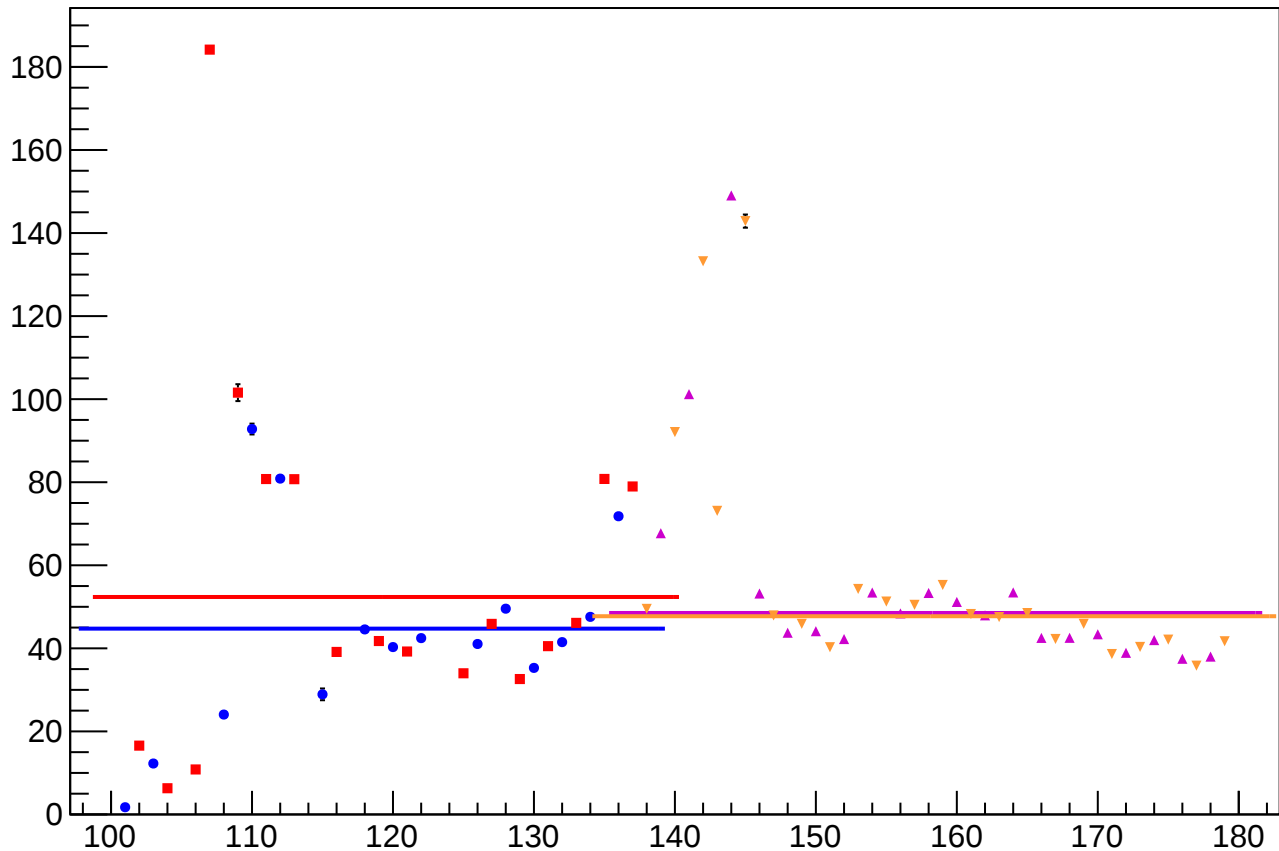
Right:  $-88.221 \pm 0.057$   $\chi^2/\text{NDF}: 113551.1/31$

In:  $-102.456 \pm 0.040$   $\chi^2/\text{NDF}: 208012.7/34$

Out:  $-103.366 \pm 0.048$   $\chi^2/\text{NDF}: 166224.4/38$

All:  $-102.830 \pm 0.031$   $\chi^2/\text{NDF}: 374450.6/73$

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In:  $44.745 \pm 0.061$   $\chi^2/\text{NDF}$ : 84697.9/14

Left Out:  $47.732 \pm 0.046$   $\chi^2/\text{NDF}$ : 60440.5/21

Right Out:  $52.367 \pm 0.113$   $\chi^2/\text{NDF}$ : 69285.2/16

Left In:  $48.513 \pm 0.043$   $\chi^2/\text{NDF}$ : 143056.4/19

Left:  $48.146 \pm 0.031$   $\chi^2/\text{NDF}$ : 203652.9/41

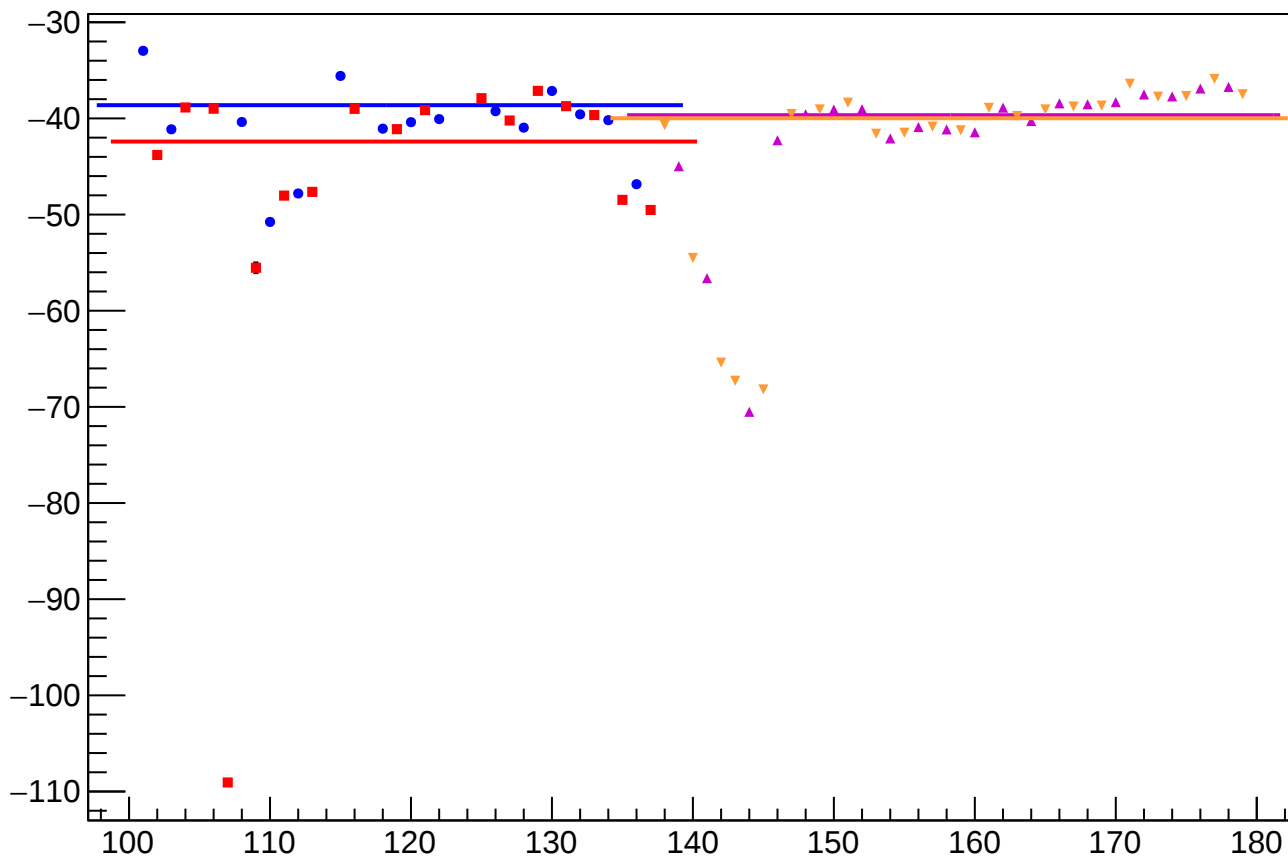
Right:  $46.456 \pm 0.053$   $\chi^2/\text{NDF}$ : 157538.4/31

In:  $47.257 \pm 0.035$   $\chi^2/\text{NDF}$ : 230334.1/34

Out:  $48.384 \pm 0.042$   $\chi^2/\text{NDF}$ : 131182.4/38

All:  $47.715 \pm 0.027$   $\chi^2/\text{NDF}$ : 361939.3/73

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}$ : 240108.7/14

Left Out:  $-39.983 \pm 0.007$   $\chi^2/\text{NDF}$ : 248253.9/21

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}$ : 269138.5/16

Left In:  $-39.666 \pm 0.007$   $\chi^2/\text{NDF}$ : 205829.8/19

Left:  $-39.830 \pm 0.005$   $\chi^2/\text{NDF}$ : 455040.3/41

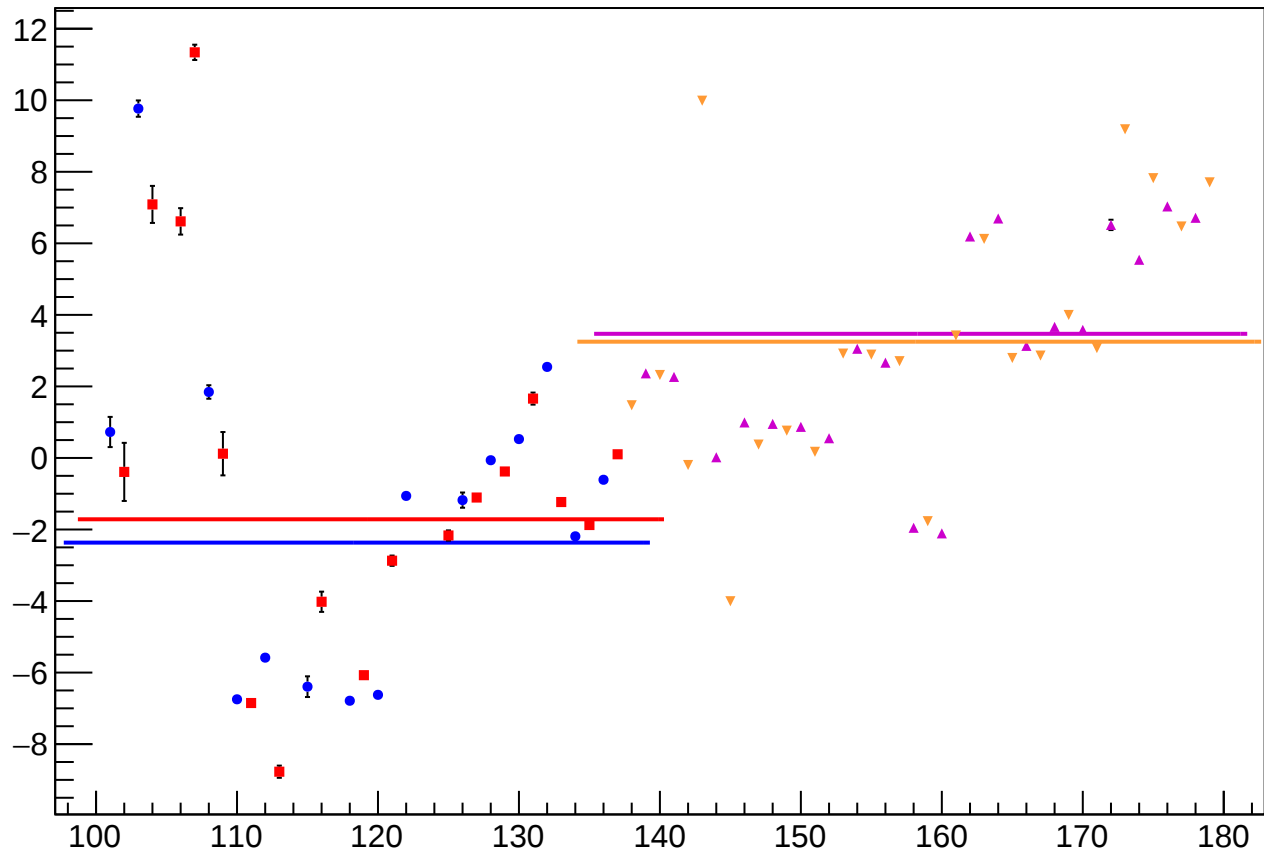
Right:  $-39.121 \pm 0.008$   $\chi^2/\text{NDF}$ : 536660.1/31

In:  $-39.205 \pm 0.006$   $\chi^2/\text{NDF}$ : 454758.5/34

Out:  $-40.228 \pm 0.007$   $\chi^2/\text{NDF}$ : 529042.2/38

All:  $-39.612 \pm 0.004$   $\chi^2/\text{NDF}$ : 997565.8/73

# dit\_usl\_4aY\_slope vs Slug, Sign Corrected



Right In: -2.367 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 28797.3/14

Left Out: 3.250 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 152857.4/21

Right Out: -1.715 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 12719.3/16

Left In: 3.471 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 197387.1/19

Left: 3.381 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 350768.7/41

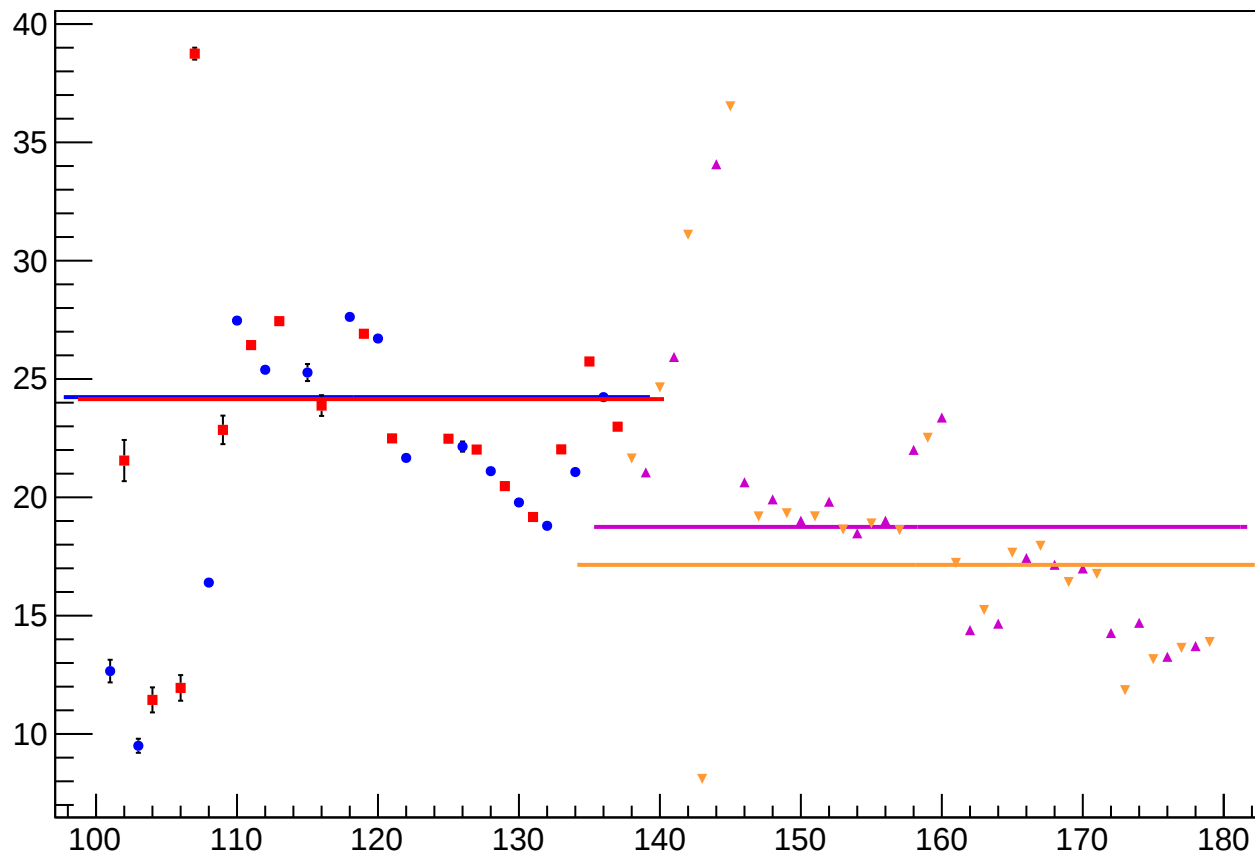
Right: -2.227 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 41975.5/31

In: 2.535 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 370646.5/34

Out: 2.904 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 197057.8/38

All: 2.677 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 569354.4/73

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.235 $\pm$ 0.022  $\chi^2$ /NDF: 21896.9/14

Left Out: 17.147 $\pm$ 0.007  $\chi^2$ /NDF:159342.9/21

Right Out: 24.150 $\pm$ 0.024  $\chi^2$ /NDF: 13222.6/16

Left In: 18.750 $\pm$ 0.007  $\chi^2$ /NDF:185802.3/19

Left: 17.940 $\pm$ 0.005  $\chi^2$ /NDF: 368615.4/41

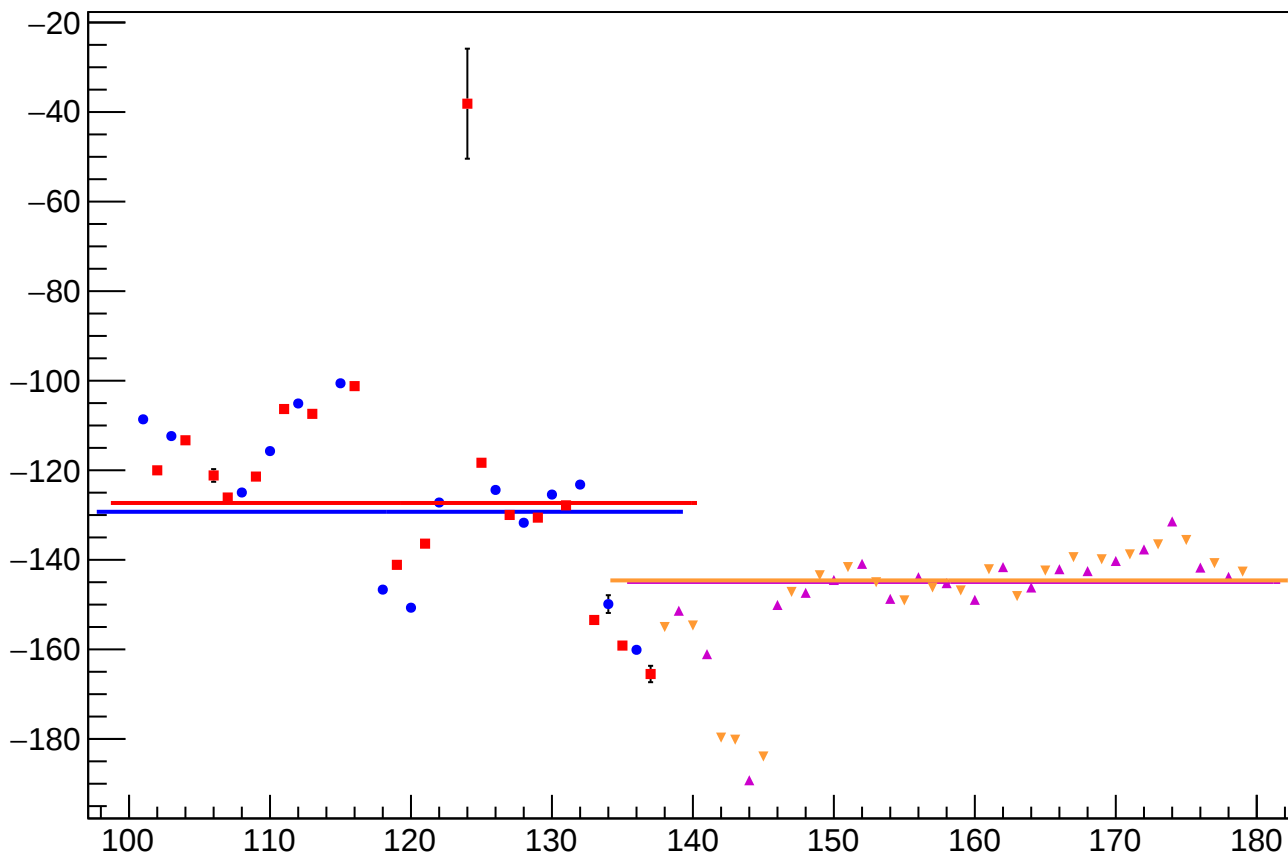
Right: 24.197 $\pm$ 0.016  $\chi^2$ /NDF: 35126.2/31

In: 19.312 $\pm$ 0.007  $\chi^2$ /NDF:263373.5/34

Out: 17.732 $\pm$ 0.007  $\chi^2$ /NDF:248239.0/38

All: 18.522 $\pm$ 0.005  $\chi^2$ /NDF: 536733.5/73

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}: 35109.7/14$

Left Out:  $-144.596 \pm 0.043$   $\chi^2/\text{NDF}: 42011.3/21$

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}: 29597.3/17$

Left In:  $-144.937 \pm 0.048$   $\chi^2/\text{NDF}: 32287.4/19$

Left:  $-144.750 \pm 0.032$   $\chi^2/\text{NDF}: 74326.7/41$

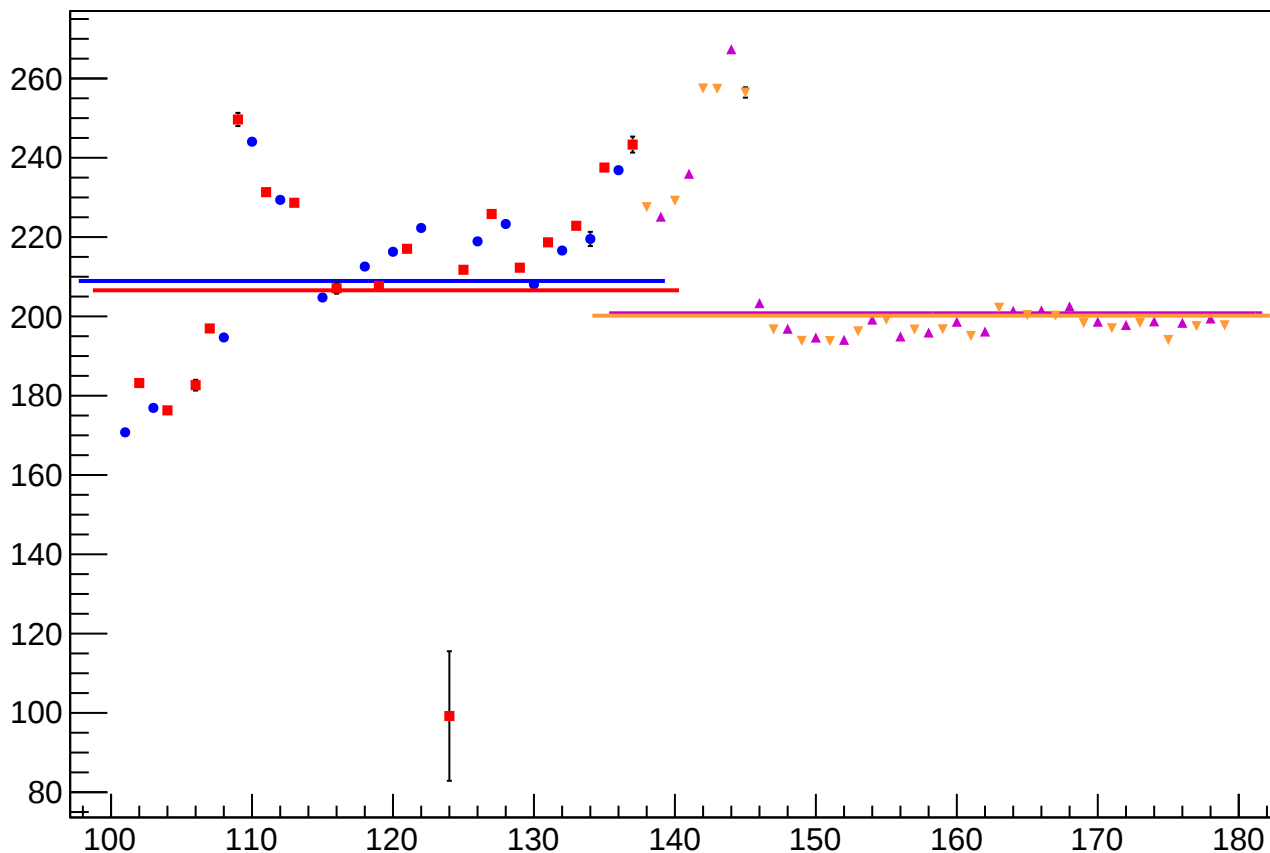
Right:  $-128.248 \pm 0.061$   $\chi^2/\text{NDF}: 64968.8/32$

In:  $-141.354 \pm 0.042$   $\chi^2/\text{NDF}: 91963.2/34$

Out:  $-140.992 \pm 0.038$   $\chi^2/\text{NDF}: 104905.7/39$

All:  $-141.157 \pm 0.028$   $\chi^2/\text{NDF}: 196909.4/74$

# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14

Left Out: 200.180 $\pm$ 0.036  $\chi^2$ /NDF:108975.4/21

Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17

Left In: 200.781 $\pm$ 0.041  $\chi^2$ /NDF:77055.0/19

Left: 200.435 $\pm$ 0.027  $\chi^2$ /NDF: 186151.4/41

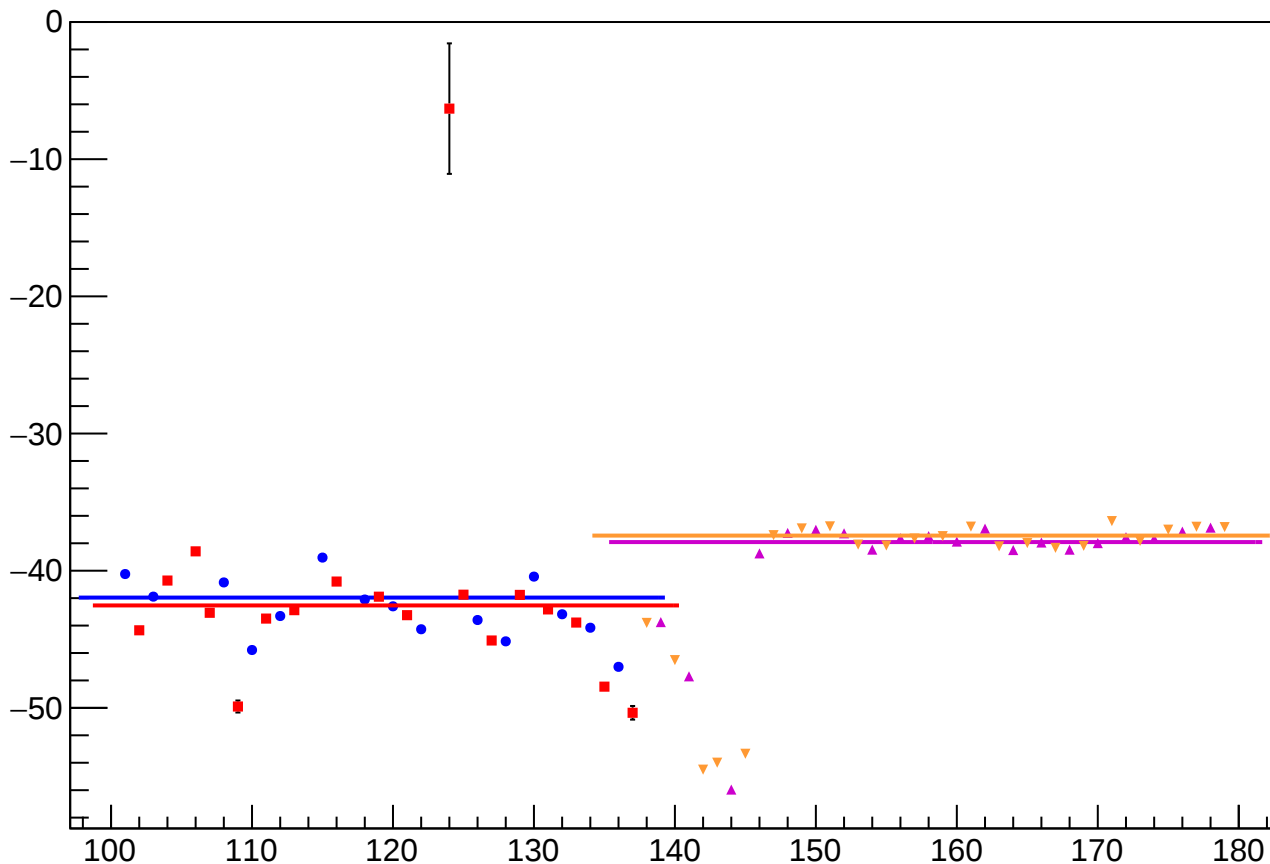
Right: 207.675 $\pm$ 0.061  $\chi^2$ /NDF: 93267.6/32

In: 202.228 $\pm$ 0.038  $\chi^2$ /NDF:128610.8/34

Out: 201.170 $\pm$ 0.033  $\chi^2$ /NDF:162191.4/39

All: 201.626 $\pm$ 0.025  $\chi^2$ /NDF: 291253.0/74

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.440 \pm 0.004$   $\chi^2/\text{NDF}$ : 230172.3/21

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

Left In:  $-37.913 \pm 0.004$   $\chi^2/\text{NDF}$ : 139364.8/19

Left:  $-37.642 \pm 0.003$   $\chi^2/\text{NDF}$ : 376067.0/41

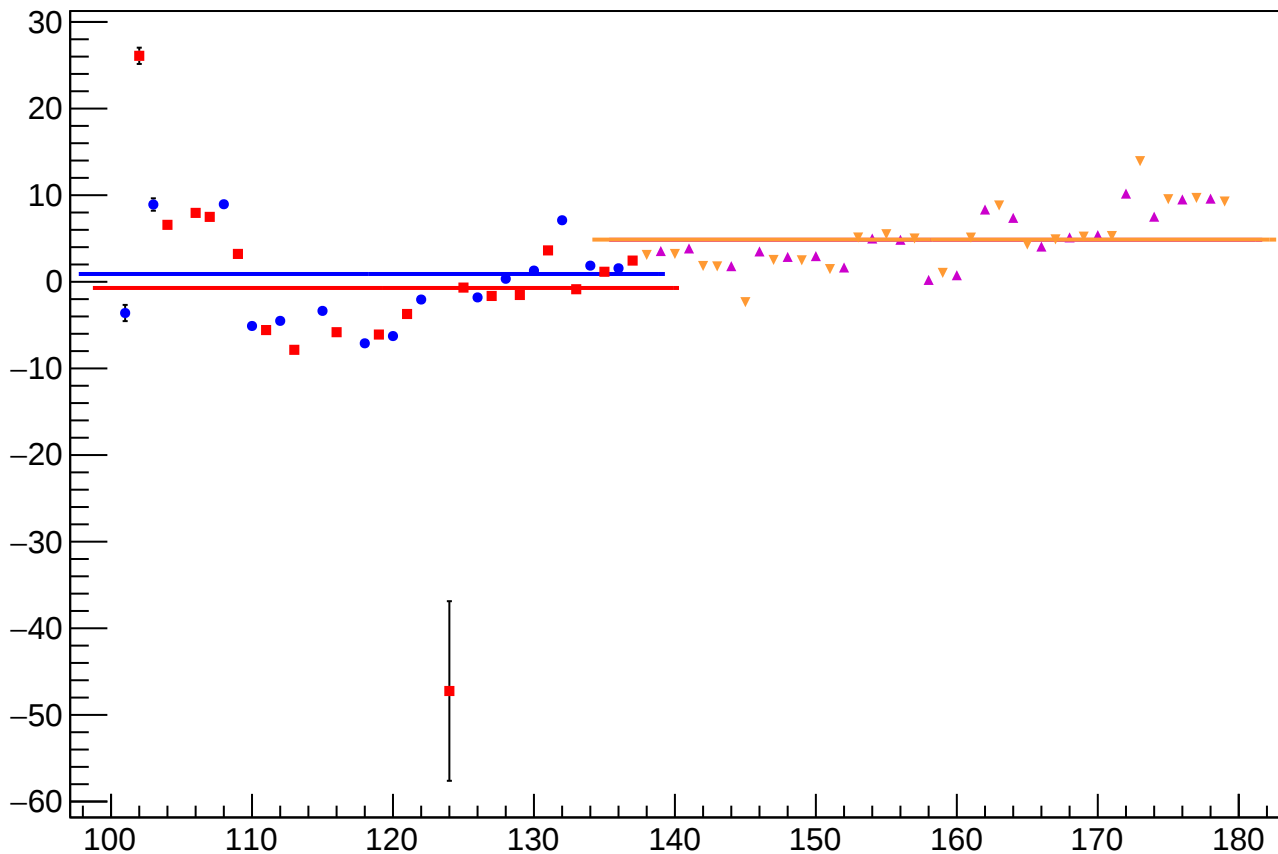
Right:  $-42.168 \pm 0.012$   $\chi^2/\text{NDF}$ : 30855.6/32

In:  $-38.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 225798.8/34

Out:  $-37.609 \pm 0.004$   $\chi^2/\text{NDF}$ : 295075.8/39

All:  $-37.874 \pm 0.003$   $\chi^2/\text{NDF}$ : 532252.7/74

# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.903 $\pm$ 0.020     $\chi^2/\text{NDF}$ : 21140.4/14

Left Out: 4.873 $\pm$ 0.006     $\chi^2/\text{NDF}$ :185113.4/21

Right Out: -0.711 $\pm$ 0.024     $\chi^2/\text{NDF}$ : 30723.8/17

Left In: 4.847 $\pm$ 0.007     $\chi^2/\text{NDF}$ :149456.3/19

Left: 4.862 $\pm$ 0.005     $\chi^2/\text{NDF}$ : 334577.7/41

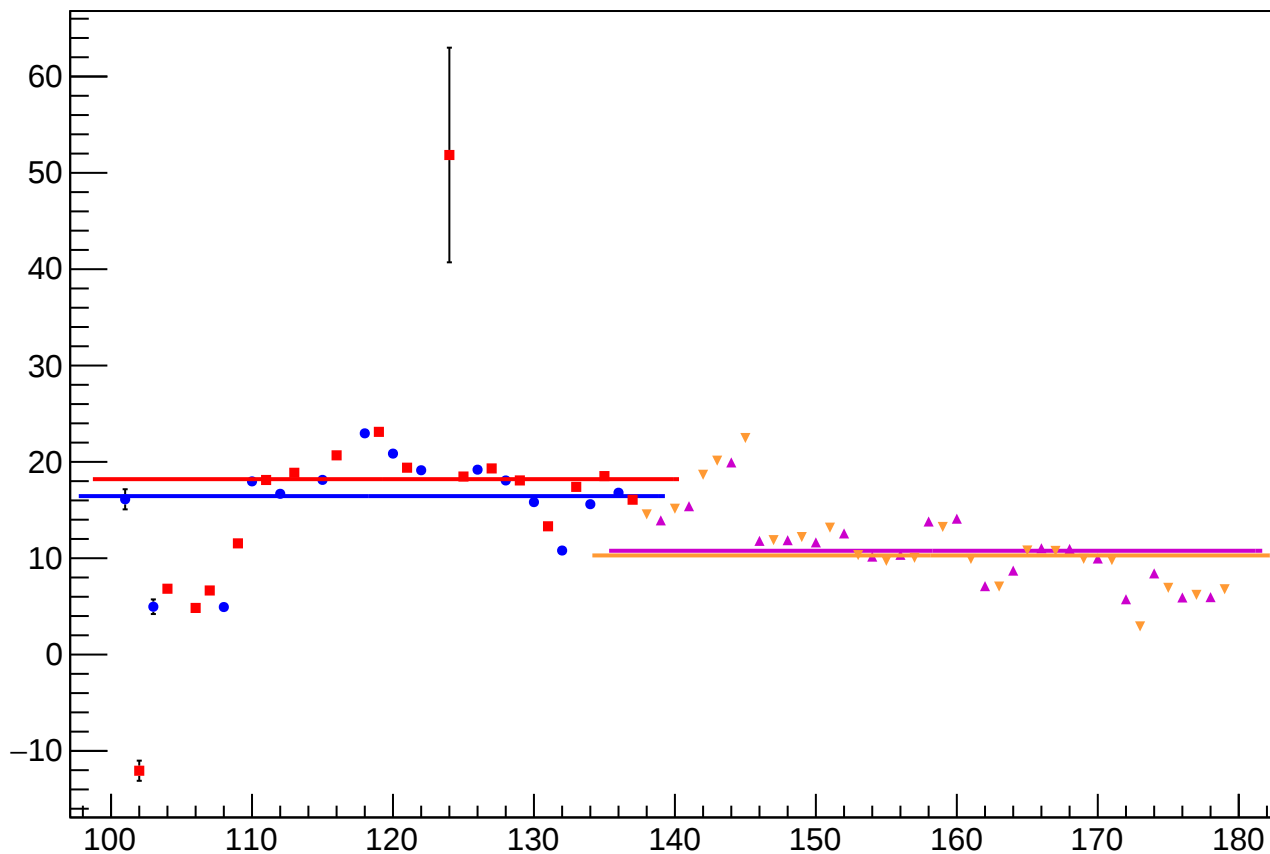
Right: 0.250 $\pm$ 0.015     $\chi^2/\text{NDF}$ : 54492.0/32

In: 4.420 $\pm$ 0.007     $\chi^2/\text{NDF}$ :205118.2/34

Out: 4.551 $\pm$ 0.006     $\chi^2/\text{NDF}$ :265586.8/39

All: 4.493 $\pm$ 0.004     $\chi^2/\text{NDF}$ : 470924.3/74

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 10.290 $\pm$ 0.007  $\chi^2$ /NDF:181125.2/21

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

Left In: 10.774 $\pm$ 0.009  $\chi^2$ /NDF:105508.6/19

Left: 10.497 $\pm$ 0.006  $\chi^2$ /NDF: 288450.3/41

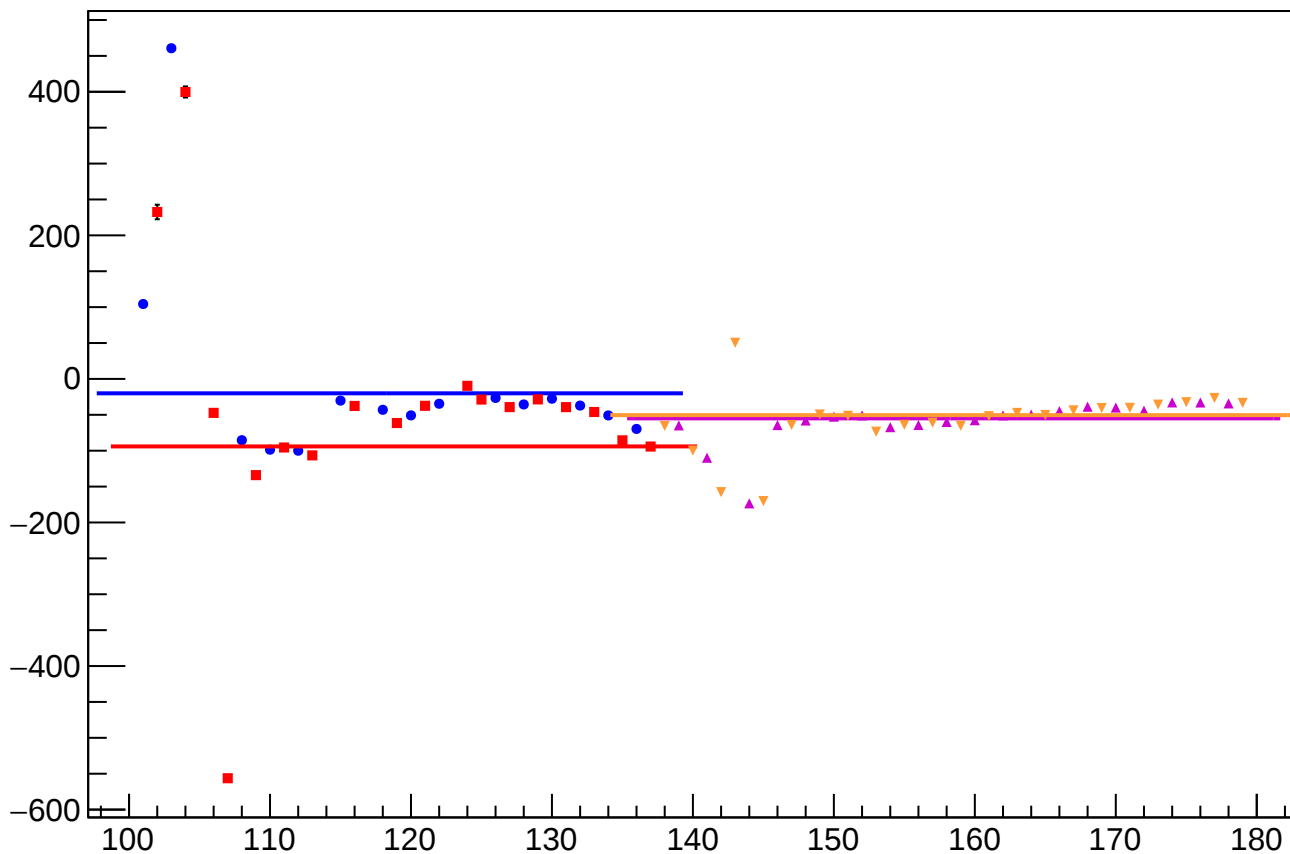
Right: 17.482 $\pm$ 0.016  $\chi^2$ /NDF: 44731.9/32

In: 11.401 $\pm$ 0.008  $\chi^2$ /NDF:167744.7/34

Out: 11.214 $\pm$ 0.007  $\chi^2$ /NDF:341236.5/39

All: 11.294 $\pm$ 0.005  $\chi^2$ /NDF: 509285.3/74

# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-50.472 \pm 0.092$   $\chi^2/\text{NDF}: 59699.5/21$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

Left In:  $-54.965 \pm 0.106$   $\chi^2/\text{NDF}: 57705.9/19$

Left:  $-52.402 \pm 0.069$   $\chi^2/\text{NDF}: 118430.3/41$

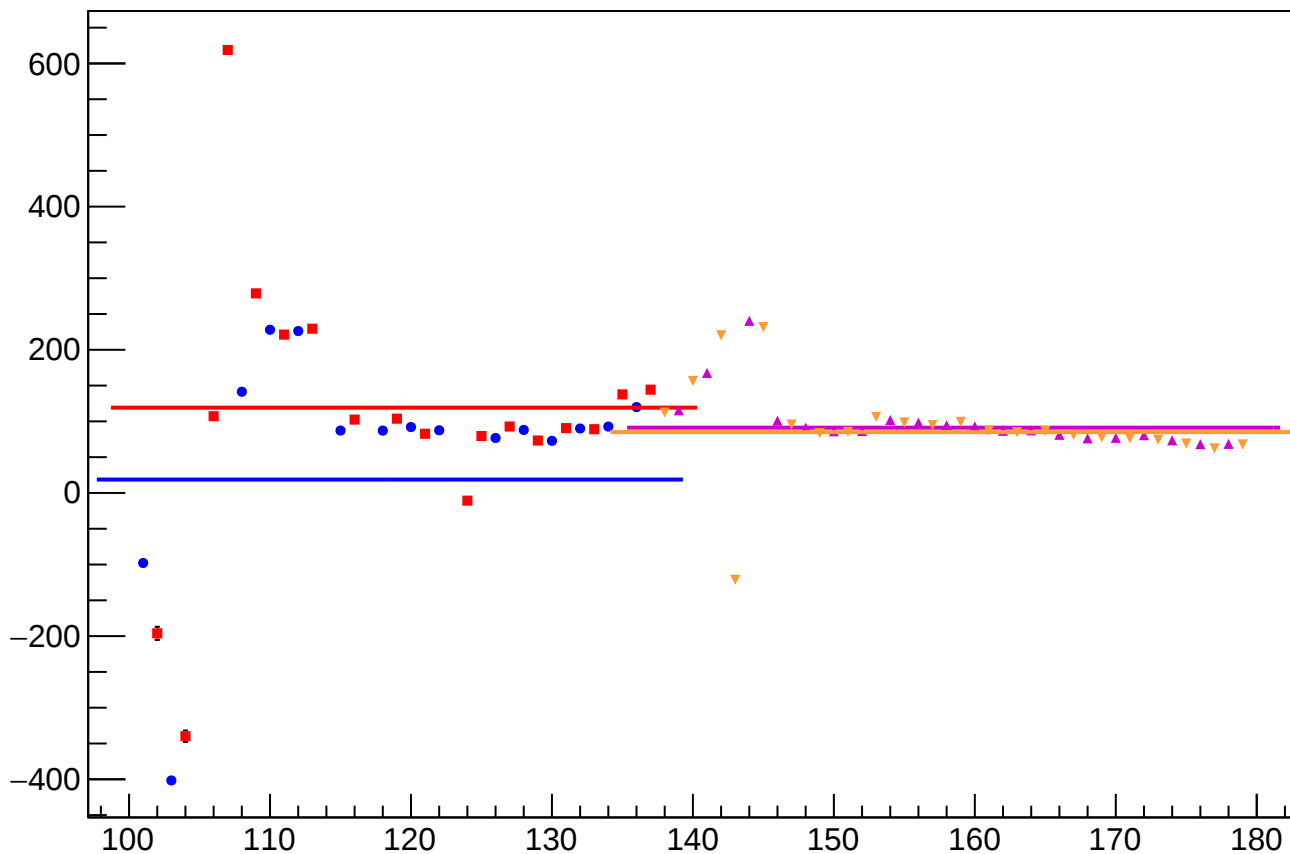
Right:  $-93.566 \pm 0.012$   $\chi^2/\text{NDF}: 760844.5/32$

In:  $-43.660 \pm 0.087$   $\chi^2/\text{NDF}: 534293.2/34$

Out:  $-93.268 \pm 0.012$   $\chi^2/\text{NDF}: 367559.9/39$

All:  $-92.296 \pm 0.012$   $\chi^2/\text{NDF}: 1219494.4/74$

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $18.731 \pm 0.152$   $\chi^2/\text{NDF}: 1101803.8/14$

Left Out:  $84.960 \pm 0.081$   $\chi^2/\text{NDF}: 179009.8/21$

Right Out:  $119.167 \pm 0.199$   $\chi^2/\text{NDF}: 87450.0/17$

Left In:  $91.189 \pm 0.092$   $\chi^2/\text{NDF}: 80415.2/19$

Left:  $87.680 \pm 0.061$   $\chi^2/\text{NDF}: 261986.8/41$

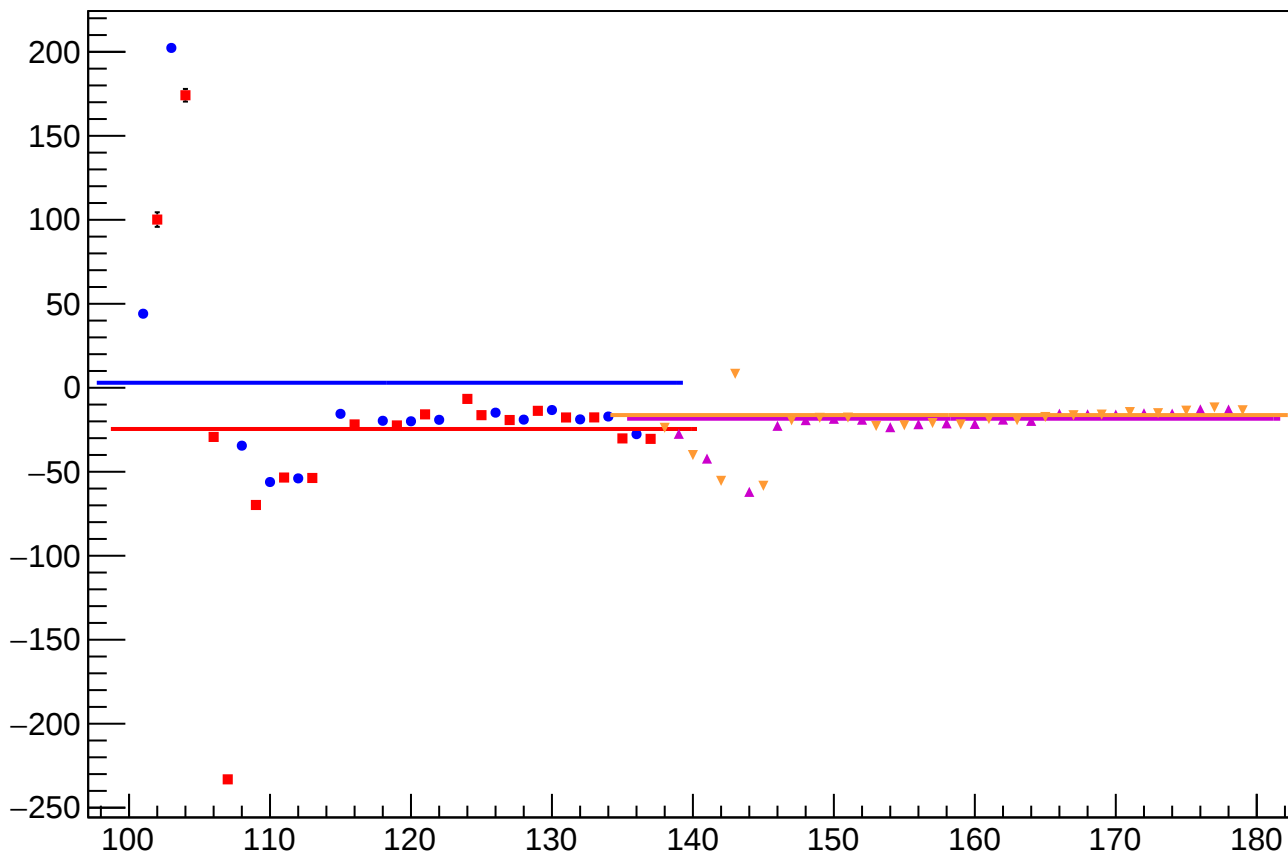
Right:  $55.701 \pm 0.121$   $\chi^2/\text{NDF}: 1349806.5/32$

In:  $71.662 \pm 0.079$   $\chi^2/\text{NDF}: 1348052.8/34$

Out:  $89.843 \pm 0.075$   $\chi^2/\text{NDF}: 291725.3/39$

All:  $81.185 \pm 0.054$   $\chi^2/\text{NDF}: 1667555.6/74$

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-16.248 \pm 0.012$   $\chi^2/\text{NDF}: 580128.4/21$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

Left In:  $-18.432 \pm 0.013$   $\chi^2/\text{NDF}: 206132.4/19$

Left:  $-17.294 \pm 0.009$   $\chi^2/\text{NDF}: 801701.9/41$

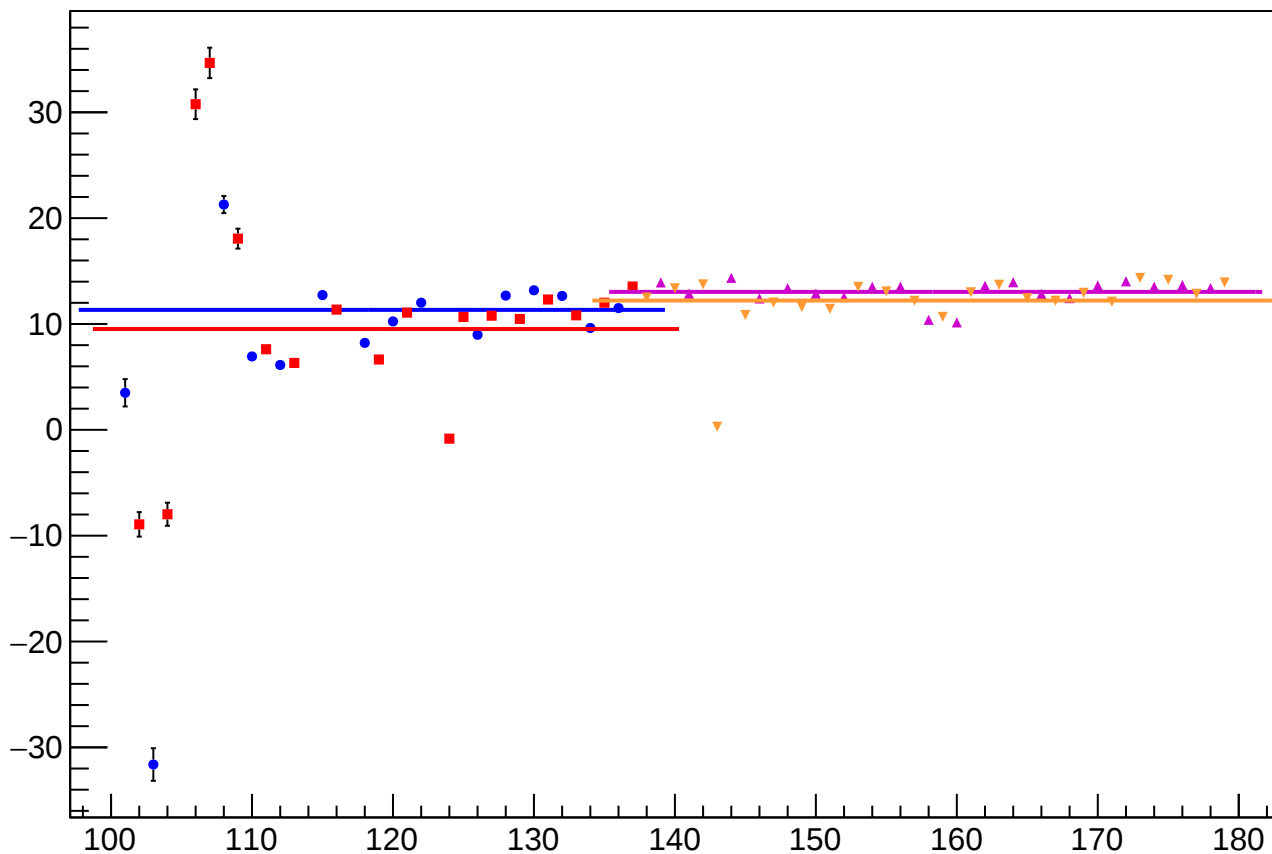
Right:  $-4.585 \pm 0.023$   $\chi^2/\text{NDF}: 3961708.4/32$

In:  $-14.530 \pm 0.011$   $\chi^2/\text{NDF}: 4222141.0/34$

Out:  $-16.846 \pm 0.012$   $\chi^2/\text{NDF}: 790076.9/39$

All:  $-15.664 \pm 0.008$   $\chi^2/\text{NDF}: 5032163.0/74$

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 11.334 $\pm$ 0.037  $\chi^2$ /NDF: 2406.0/14

Left Out: 12.215 $\pm$ 0.014  $\chi^2$ /NDF:33639.0/21

Right Out: 9.524 $\pm$ 0.048  $\chi^2$ /NDF: 4066.9/17

Left In: 13.034 $\pm$ 0.012  $\chi^2$ /NDF:6507.2/19

Left: 12.706 $\pm$ 0.009  $\chi^2$ /NDF: 42135.1/41

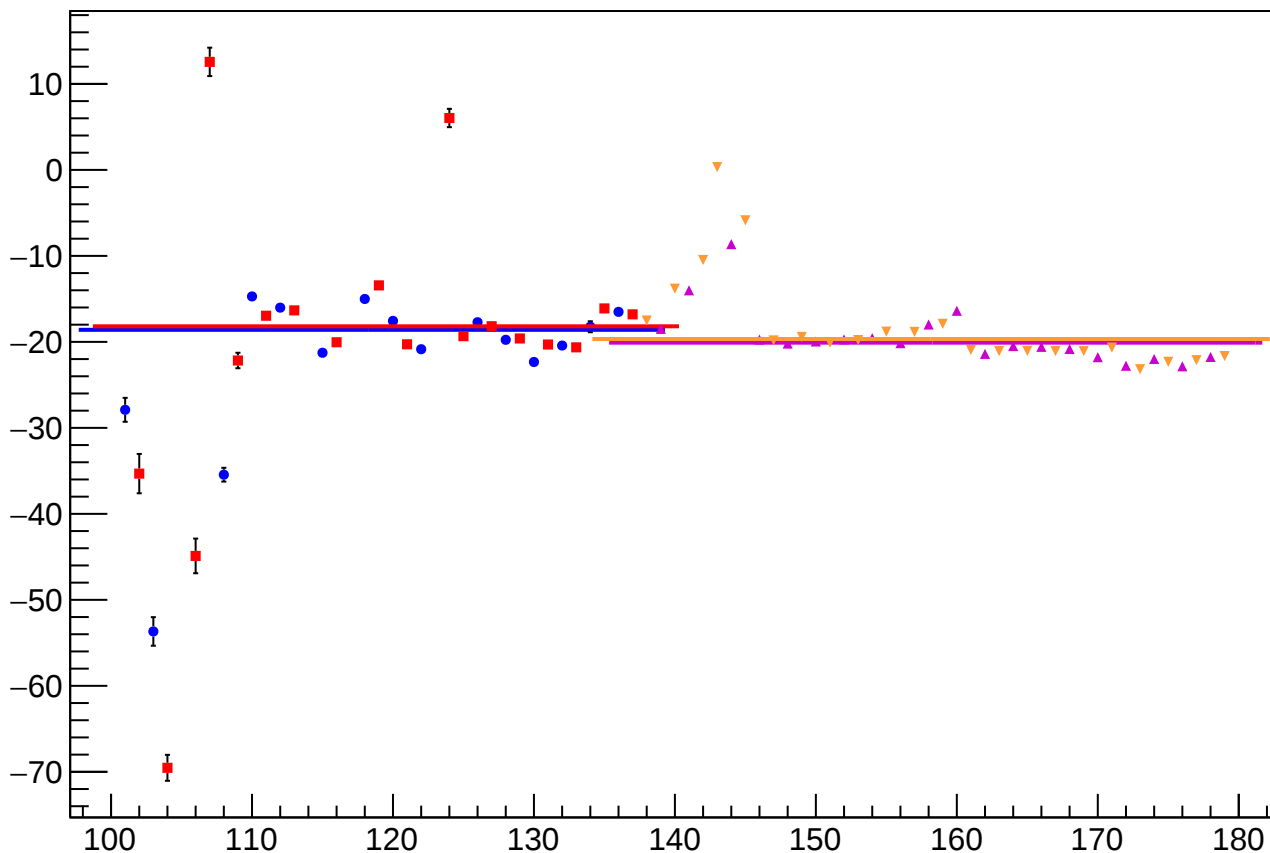
Right: 10.651 $\pm$ 0.029  $\chi^2$ /NDF: 7358.3/32

In: 12.884 $\pm$ 0.011  $\chi^2$ /NDF:10800.3/34

Out: 11.999 $\pm$ 0.014  $\chi^2$ /NDF:40595.4/39

All: 12.531 $\pm$ 0.009  $\chi^2$ /NDF: 53934.9/74

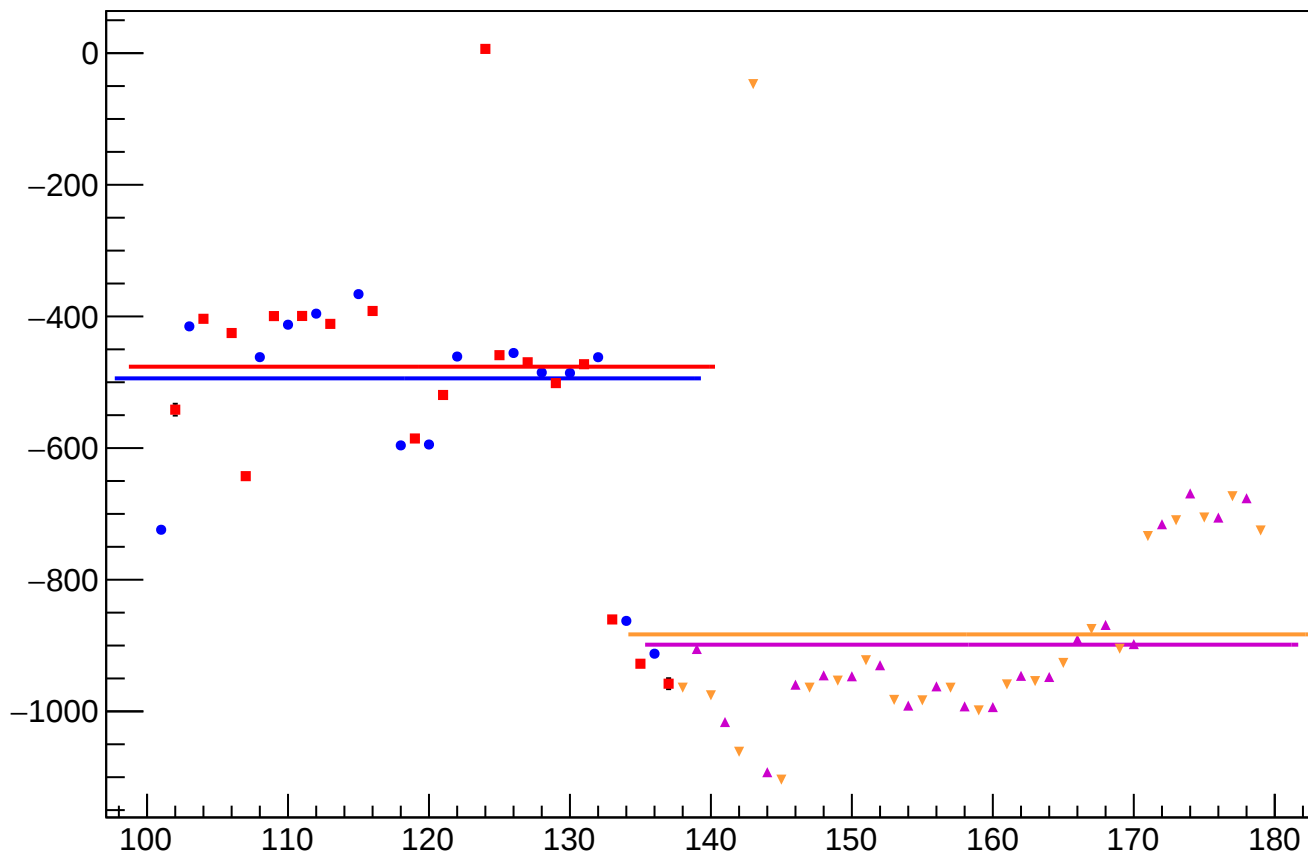
# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14  
 Left Out:  $-19.666 \pm 0.015$   $\chi^2/\text{NDF}$ : 64801.7/21  
 Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17  
 Left In:  $-20.091 \pm 0.016$   $\chi^2/\text{NDF}$ : 16128.1/19

Left:  $-19.873 \pm 0.011$   $\chi^2/\text{NDF}$ : 81302.1/41  
 Right:  $-18.450 \pm 0.030$   $\chi^2/\text{NDF}$ : 11113.5/32  
 In:  $-19.863 \pm 0.015$   $\chi^2/\text{NDF}$ : 23687.1/34  
 Out:  $-19.536 \pm 0.015$   $\chi^2/\text{NDF}$ : 70496.1/39  
 All:  $-19.701 \pm 0.010$   $\chi^2/\text{NDF}$ : 94433.6/74

dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-494.081 \pm 0.232$   $\chi^2/\text{NDF}: 325996.5/14$

Left Out:  $-883.048 \pm 0.157$   $\chi^2/\text{NDF}: 762627.4/21$

Right Out:  $-476.348 \pm 0.185$   $\chi^2/\text{NDF}: 594116.3/17$

Left In:  $-898.688 \pm 0.158$   $\chi^2/\text{NDF}: 562514.8/19$

Left:  $-890.813 \pm 0.111$   $\chi^2/\text{NDF}: 1330098.5/41$

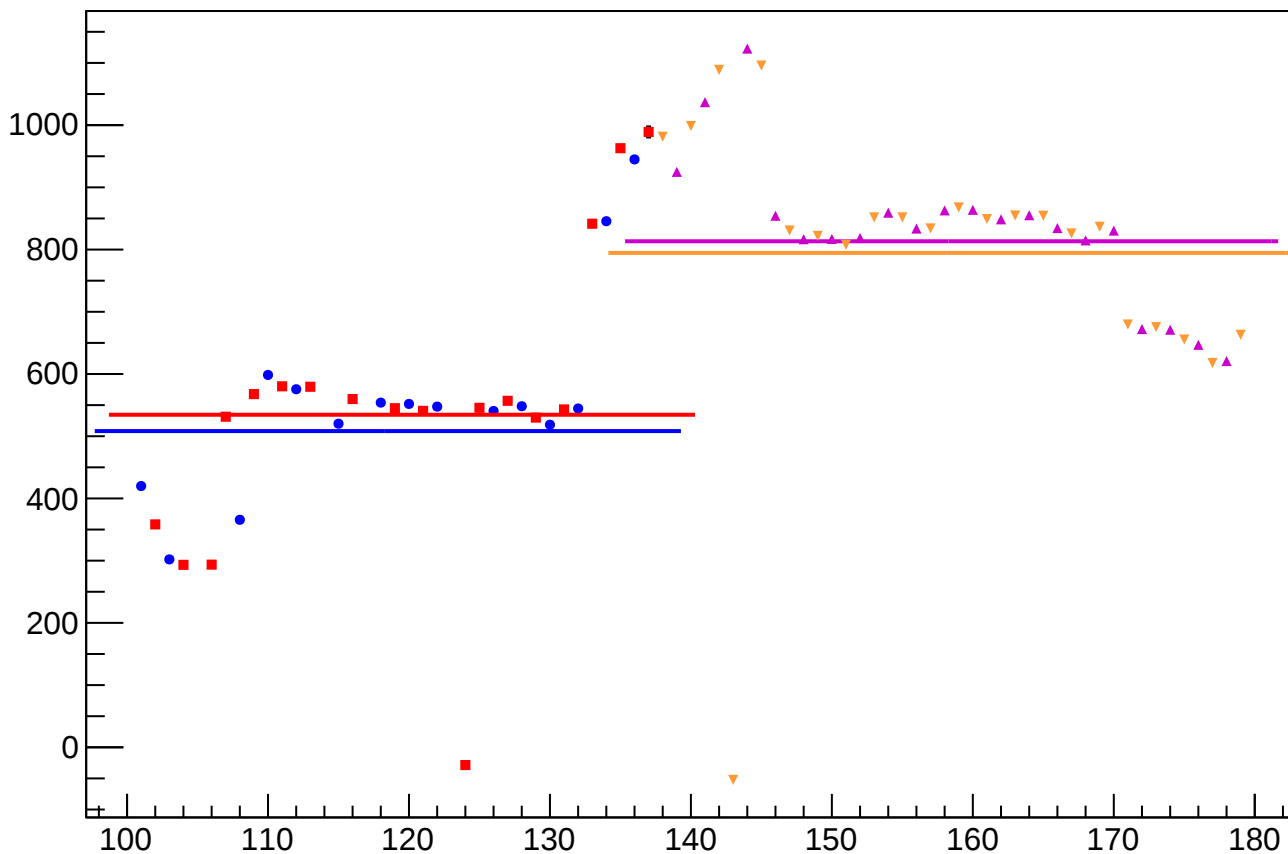
Right:  $-483.243 \pm 0.145$   $\chi^2/\text{NDF}: 923680.3/32$

In:  $-770.961 \pm 0.130$   $\chi^2/\text{NDF}: 2968119.1/34$

Out:  $-713.506 \pm 0.120$   $\chi^2/\text{NDF}: 4171025.5/39$

All:  $-739.738 \pm 0.088$   $\chi^2/\text{NDF}: 7244634.2/74$

# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 508.267+/-0.222  $\chi^2/\text{NDF}$ : 439489.9/14

Left Out: 794.652+/-0.127  $\chi^2/\text{NDF}$ :784983.3/21

Right Out: 534.536+/-0.217  $\chi^2/\text{NDF}$ : 368263.1/17

Left In: 813.361+/-0.131  $\chi^2/\text{NDF}$ :475446.7/19

Left: 803.776+/-0.091  $\chi^2/\text{NDF}$ : 1270939.2/41

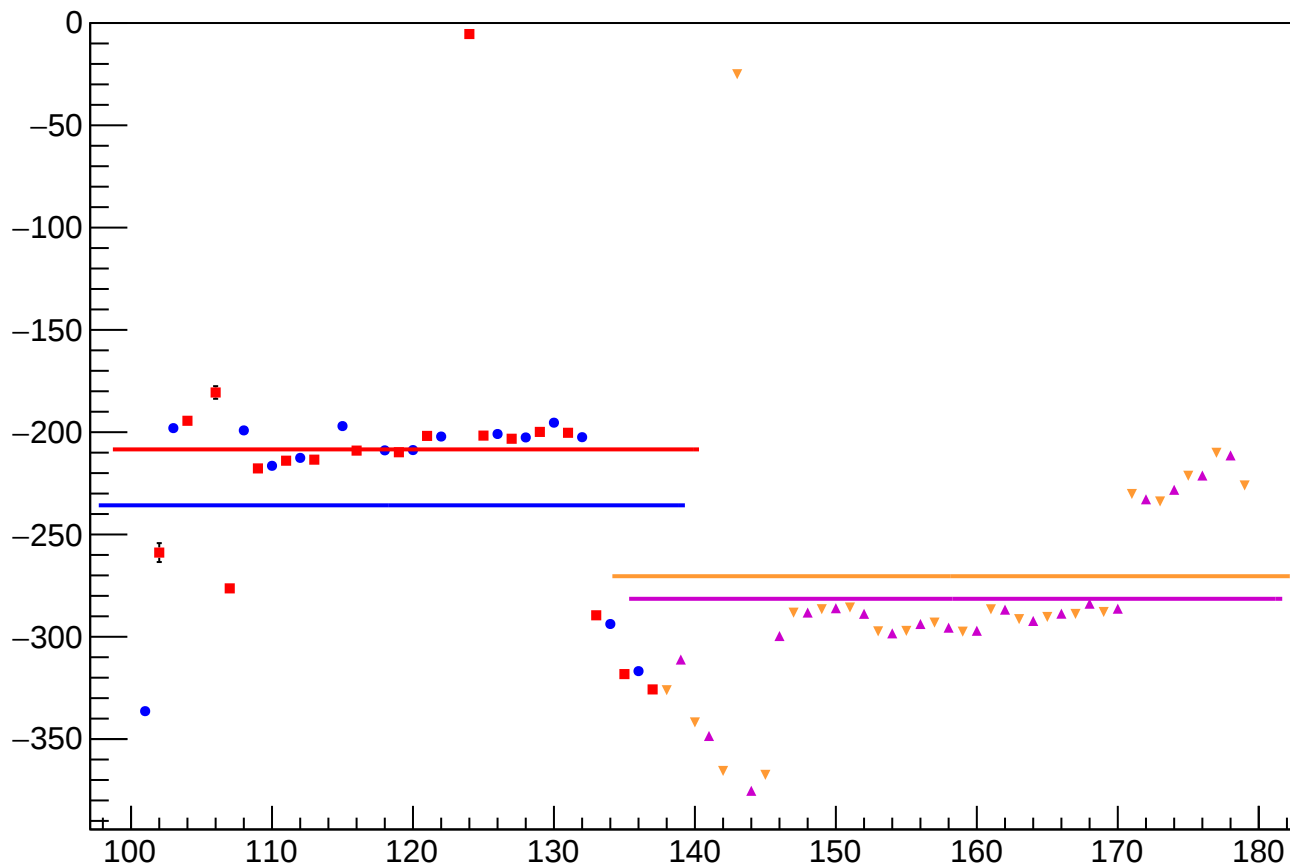
Right: 521.671+/-0.155  $\chi^2/\text{NDF}$ : 814918.8/32

In: 734.720+/-0.113  $\chi^2/\text{NDF}$ :2320980.3/34

Out: 728.014+/-0.110  $\chi^2/\text{NDF}$ :2220290.8/39

All: 731.288+/-0.079  $\chi^2/\text{NDF}$ : 4543088.2/74

# dit\_atl2\_11X12X\_slope vs Slug, Sign Corrected



Right In: -235.748+/-0.055  $\chi^2/\text{NDF}$ : 876219.5/14

Left Out: -270.396+/-0.023  $\chi^2/\text{NDF}$ : 6947991.0/21

Right Out: -208.413+/-0.047  $\chi^2/\text{NDF}$ : 375009.3/17

Left In: -281.439+/-0.023  $\chi^2/\text{NDF}$ : 1870445.7/19

Left: -275.996+/-0.016  $\chi^2/\text{NDF}$ : 8932100.3/41

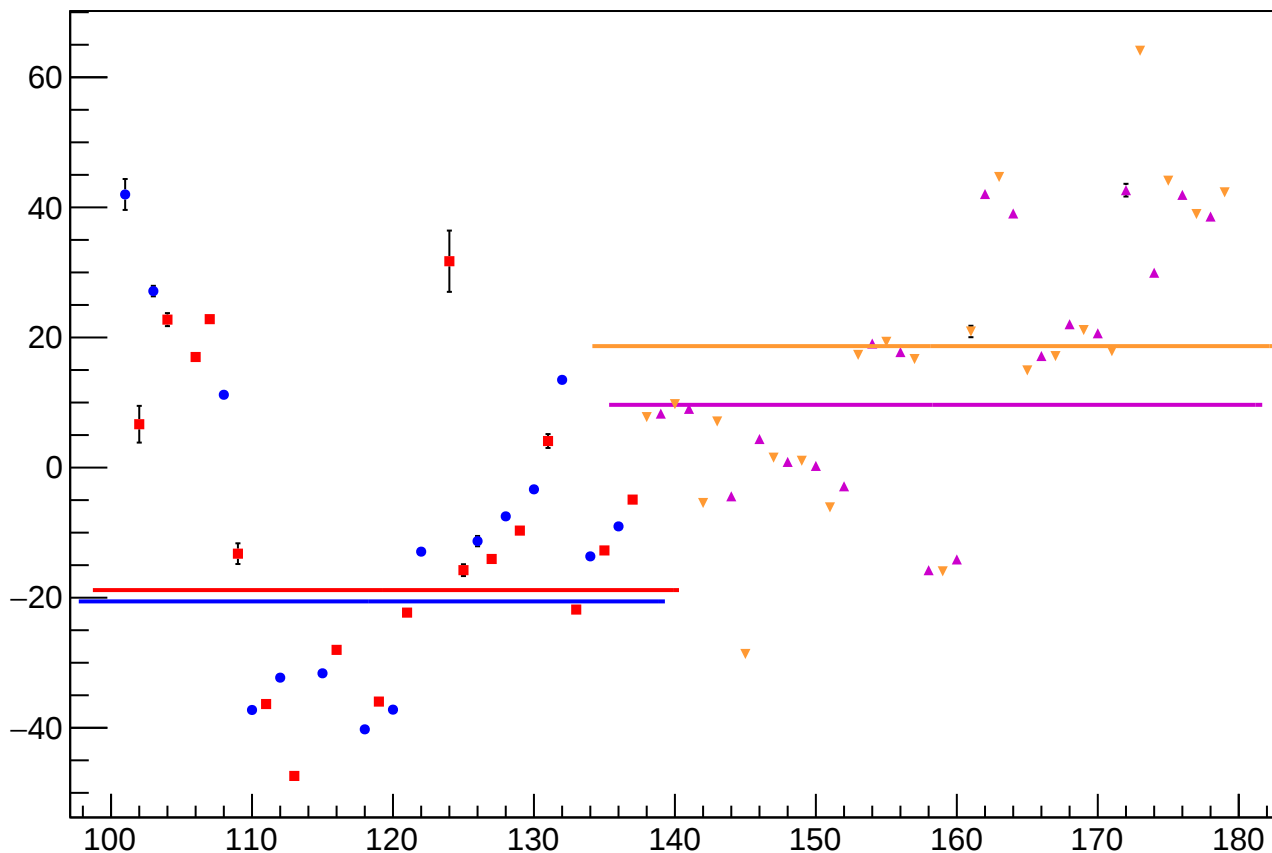
Right: -219.823+/-0.036  $\chi^2/\text{NDF}$ : 1393978.3/32

In: -274.687+/-0.021  $\chi^2/\text{NDF}$ : 3330065.3/34

Out: -258.040+/-0.021  $\chi^2/\text{NDF}$ : 8730769.8/39

All: -266.222+/-0.015  $\chi^2/\text{NDF}$ : 12373533.0/77

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $18.672 \pm 0.021$   $\chi^2/\text{NDF}$ : 675347.4/21

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

Left In:  $9.647 \pm 0.019$   $\chi^2/\text{NDF}$ : 1108566.1/19

Left:  $13.592 \pm 0.014$   $\chi^2/\text{NDF}$ : 1885901.8/41

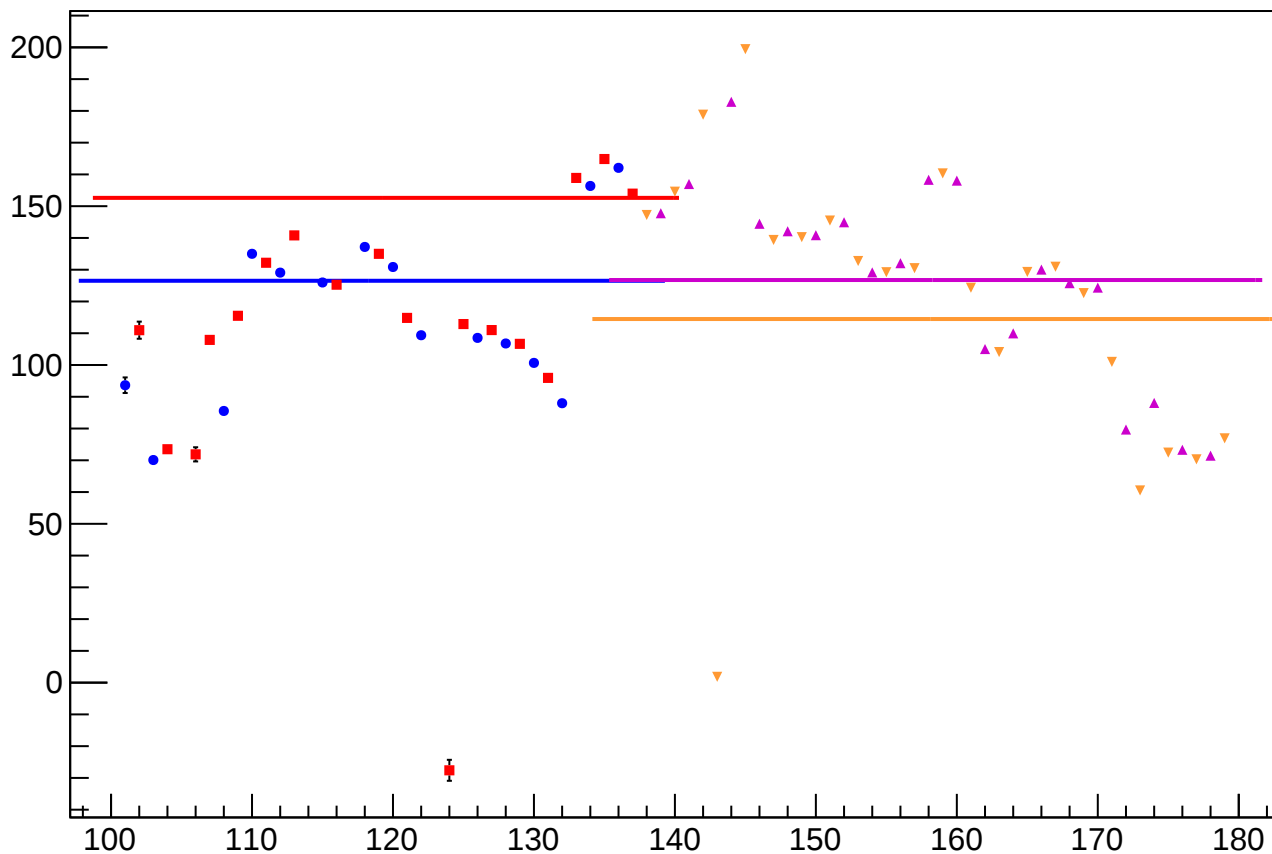
Right:  $-20.041 \pm 0.060$   $\chi^2/\text{NDF}$ : 84439.6/32

In:  $7.707 \pm 0.018$   $\chi^2/\text{NDF}$ : 1339854.4/34

Out:  $17.281 \pm 0.021$   $\chi^2/\text{NDF}$ : 812297.3/39

All:  $11.824 \pm 0.014$   $\chi^2/\text{NDF}$ : 2272806.4/74

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 114.473 $\pm$ 0.026  $\chi^2$ /NDF:1379987.8/21

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

Left In: 126.753 $\pm$ 0.026  $\chi^2$ /NDF:1102287.2/19

Left: 120.756 $\pm$ 0.018  $\chi^2$ /NDF: 2594000.2/41

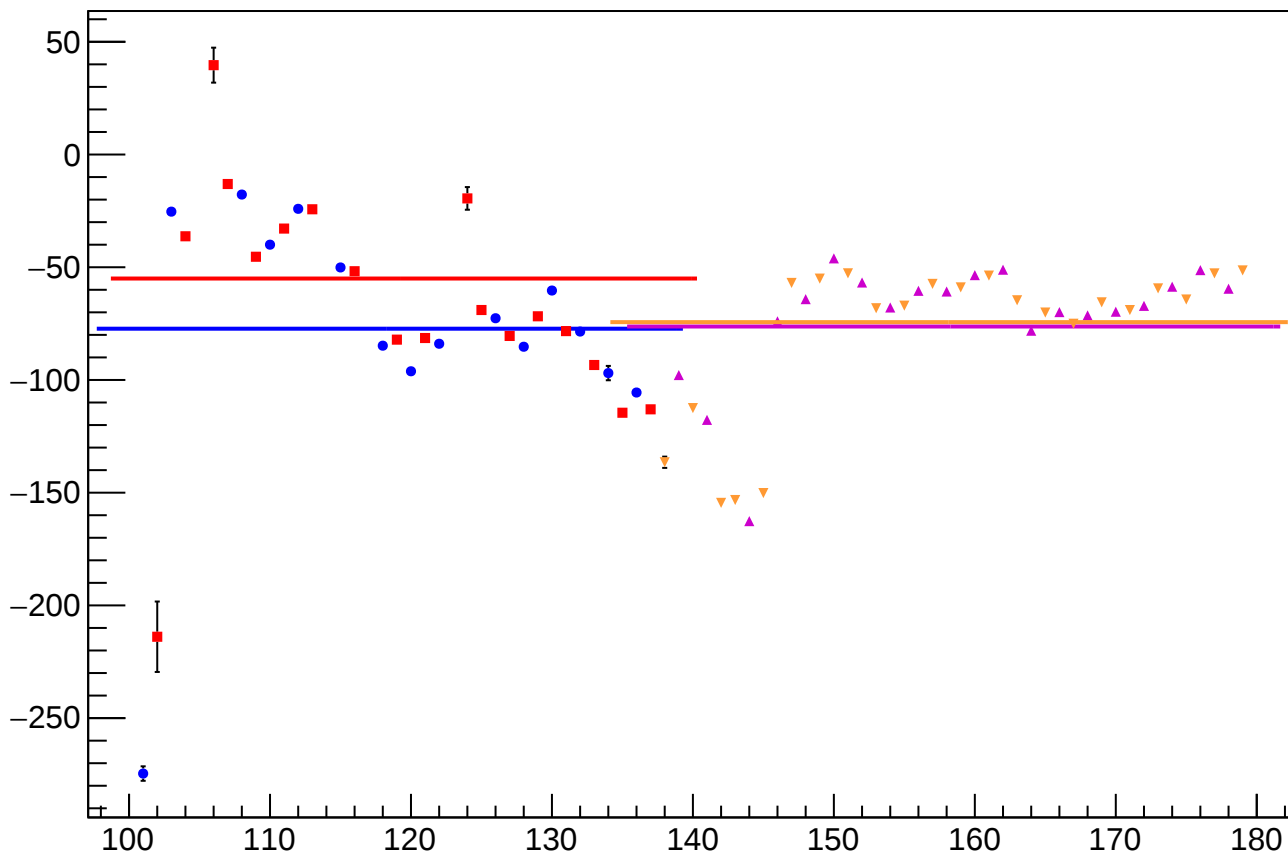
Right: 149.605 $\pm$ 0.029  $\chi^2$ /NDF: 274404.9/32

In: 126.733 $\pm$ 0.025  $\chi^2$ /NDF:1217261.7/34

Out: 130.818 $\pm$ 0.020  $\chi^2$ /NDF:2356839.8/39

All: 129.202 $\pm$ 0.015  $\chi^2$ /NDF: 3590824.9/74

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}: 30356.0/14$

Left Out:  $-74.349 \pm 0.118$   $\chi^2/\text{NDF}: 64847.2/21$

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}: 23629.0/17$

Left In:  $-76.287 \pm 0.119$   $\chi^2/\text{NDF}: 64758.0/19$

Left:  $-75.305 \pm 0.084$   $\chi^2/\text{NDF}: 129739.1/41$

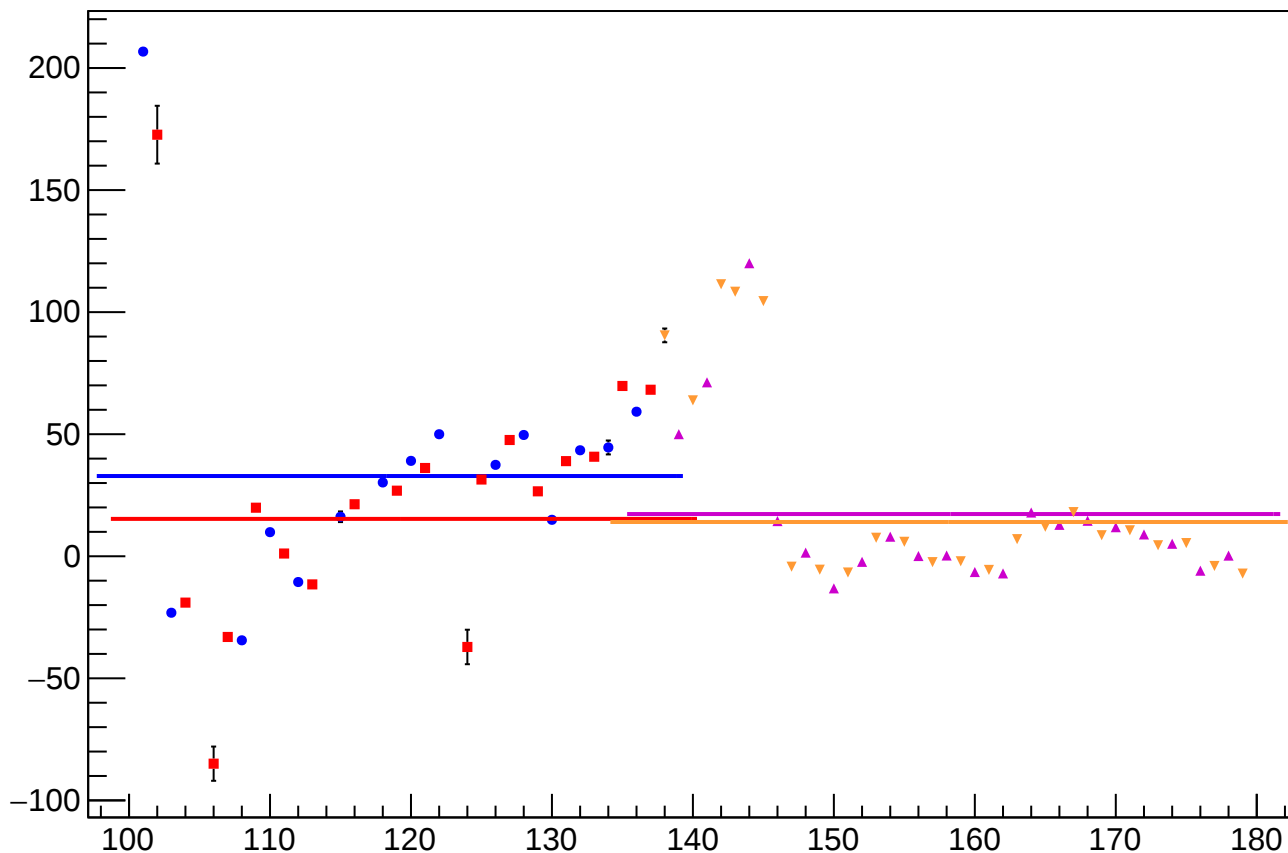
Right:  $-68.980 \pm 0.116$   $\chi^2/\text{NDF}: 62576.3/32$

In:  $-76.675 \pm 0.092$   $\chi^2/\text{NDF}: 95140.5/34$

Out:  $-68.998 \pm 0.100$   $\chi^2/\text{NDF}: 95953.4/39$

All:  $-73.139 \pm 0.068$   $\chi^2/\text{NDF}: 194268.8/74$

# dit\_atr1\_4eX\_slope vs Slug, Sign Corrected



Right In: 32.869 $\pm$ 0.146  $\chi^2$ /NDF: 31393.7/14

Left Out: 14.041 $\pm$ 0.102  $\chi^2$ /NDF:96147.7/21

Right Out: 15.309 $\pm$ 0.210  $\chi^2$ /NDF: 16746.0/17

Left In: 17.297 $\pm$ 0.105  $\chi^2$ /NDF:92548.4/19

Left: 15.621 $\pm$ 0.073  $\chi^2$ /NDF: 189186.7/41

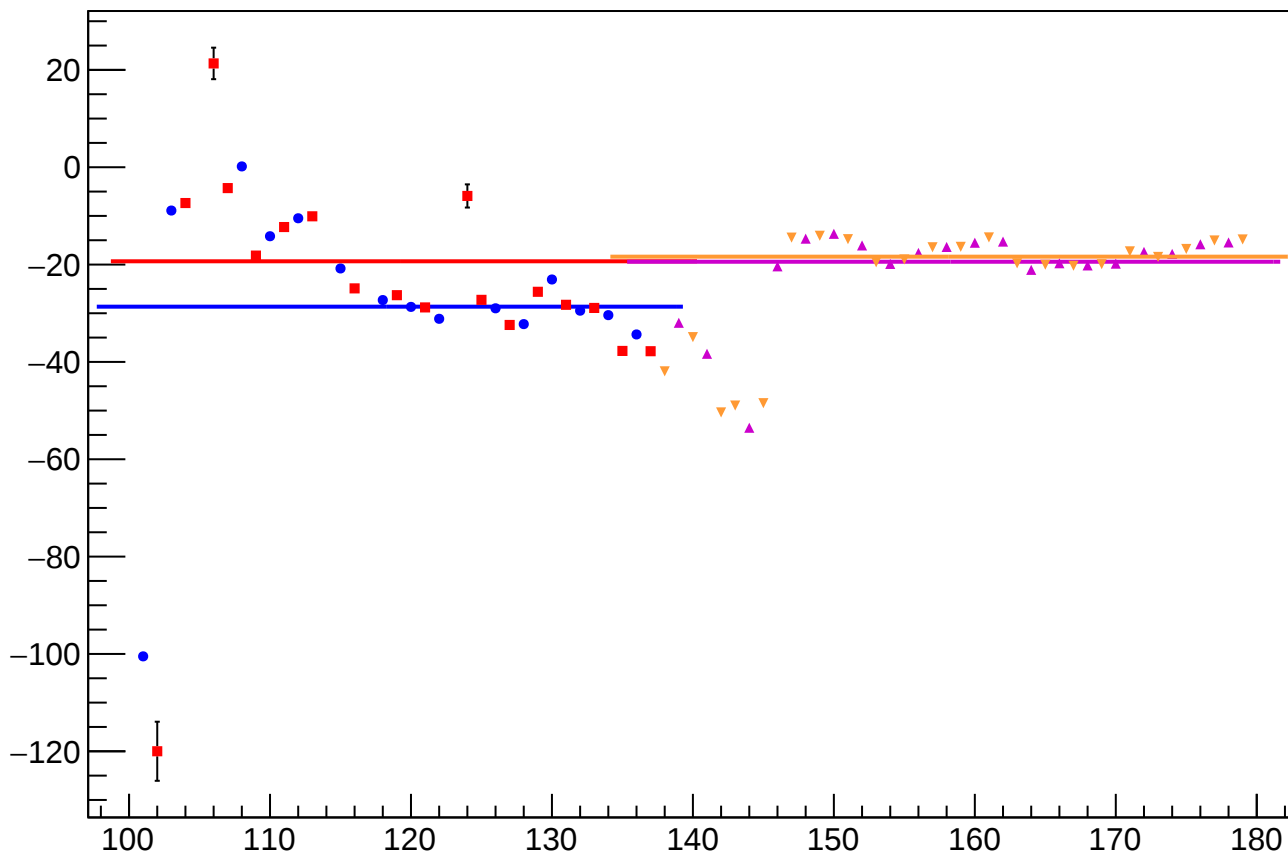
Right: 27.134 $\pm$ 0.120  $\chi^2$ /NDF: 52862.9/32

In: 22.634 $\pm$ 0.085  $\chi^2$ /NDF:131417.2/34

Out: 14.285 $\pm$ 0.092  $\chi^2$ /NDF:112923.2/39

All: 18.766 $\pm$ 0.063  $\chi^2$ /NDF: 248759.2/74

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}: 113441.9/14$

Left Out:  $-18.374 \pm 0.014$   $\chi^2/\text{NDF}: 232619.7/21$

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}: 56579.1/17$

Left In:  $-19.418 \pm 0.015$   $\chi^2/\text{NDF}: 199826.9/19$

Left:  $-18.854 \pm 0.010$   $\chi^2/\text{NDF}: 435080.5/41$

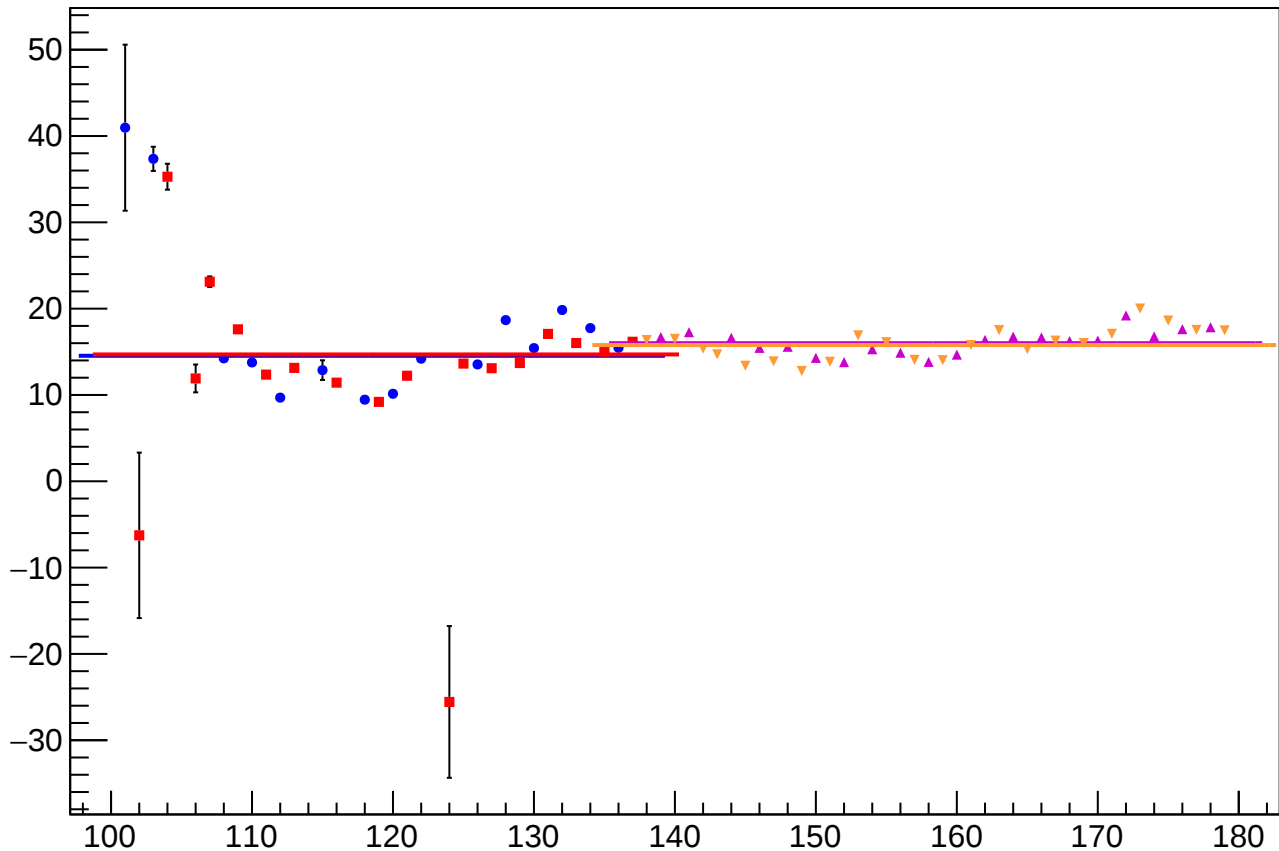
Right:  $-24.627 \pm 0.026$   $\chi^2/\text{NDF}: 201944.0/32$

In:  $-20.895 \pm 0.014$   $\chi^2/\text{NDF}: 374205.6/34$

Out:  $-18.478 \pm 0.013$   $\chi^2/\text{NDF}: 289718.5/39$

All:  $-19.625 \pm 0.009$   $\chi^2/\text{NDF}: 680267.7/74$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 14.539+/-0.030  $\chi^2/\text{NDF}$ : 12071.8/14

Left Out: 15.781+/-0.014  $\chi^2/\text{NDF}$ :11462.8/21

Right Out: 14.695+/-0.044  $\chi^2/\text{NDF}$ : 1633.0/17

Left In: 16.001+/-0.013  $\chi^2/\text{NDF}$ :10788.3/19

Left: 15.898+/-0.010  $\chi^2/\text{NDF}$ : 22379.9/41

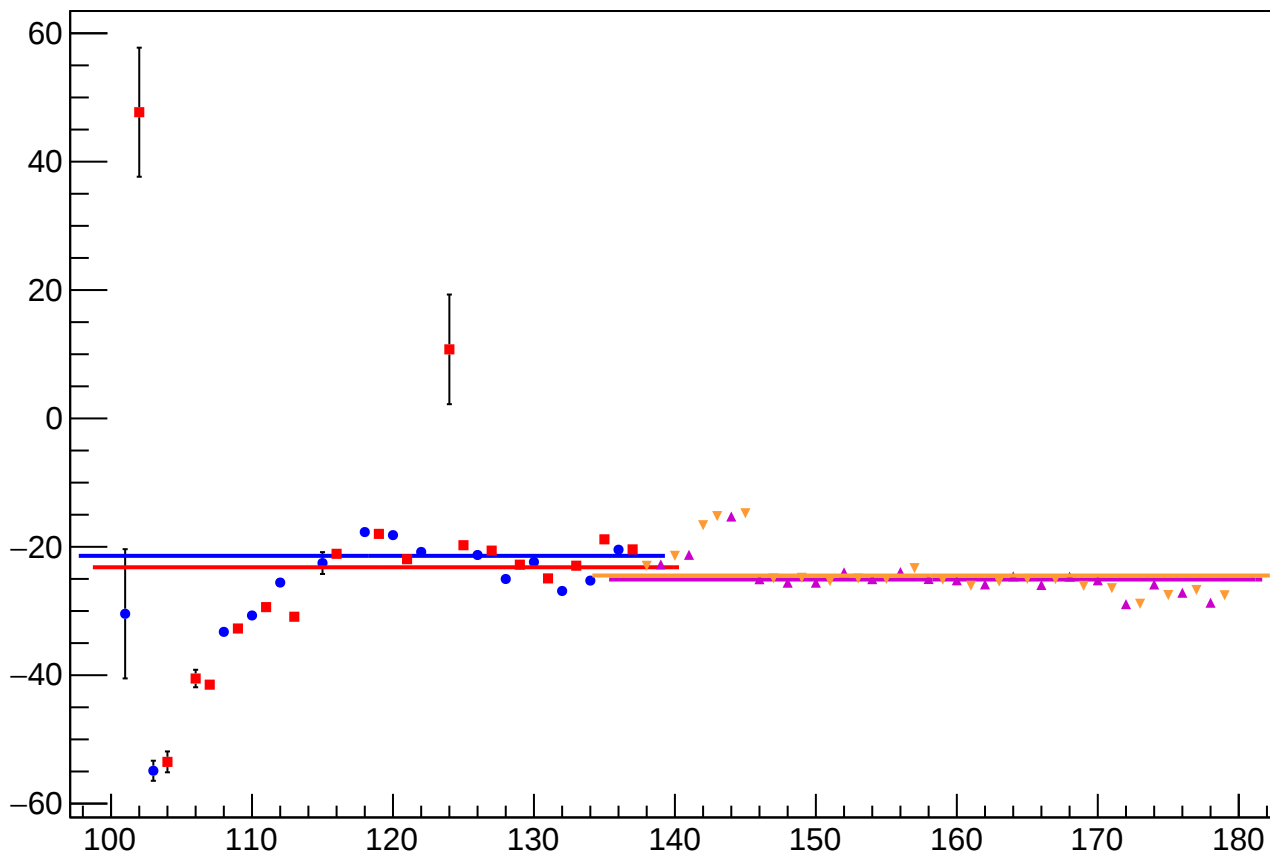
Right: 14.589+/-0.025  $\chi^2/\text{NDF}$ : 13713.5/32

In: 15.758+/-0.012  $\chi^2/\text{NDF}$ :24867.2/34

Out: 15.678+/-0.013  $\chi^2/\text{NDF}$ :13659.4/39

All: 15.722+/-0.009  $\chi^2/\text{NDF}$ : 38546.5/74

# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-24.469 \pm 0.017$   $\chi^2/\text{NDF}: 42072.5/21$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

Left In:  $-25.097 \pm 0.017$   $\chi^2/\text{NDF}: 14046.3/19$

Left:  $-24.775 \pm 0.012$   $\chi^2/\text{NDF}: 56819.8/41$

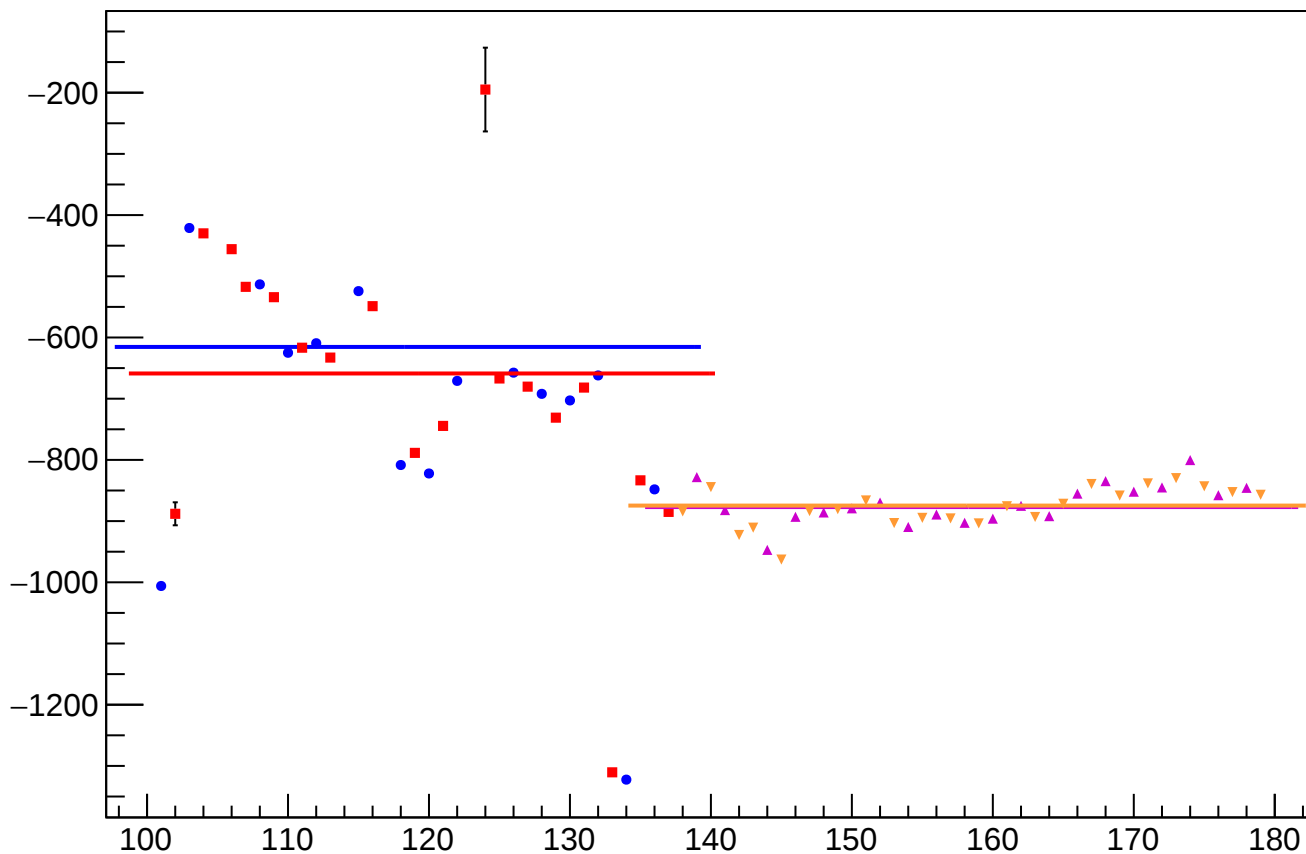
Right:  $-21.987 \pm 0.029$   $\chi^2/\text{NDF}: 19630.5/32$

In:  $-24.413 \pm 0.015$   $\chi^2/\text{NDF}: 32503.0/34$

Out:  $-24.347 \pm 0.016$   $\chi^2/\text{NDF}: 51769.6/39$

All:  $-24.381 \pm 0.011$   $\chi^2/\text{NDF}: 84281.6/74$

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-615.419 \pm 0.238$   $\chi^2/\text{NDF}: 382819.1/14$

Left Out:  $-874.645 \pm 0.134$   $\chi^2/\text{NDF}: 41999.8/21$

Right Out:  $-658.787 \pm 0.256$   $\chi^2/\text{NDF}: 385262.6/17$

Left In:  $-877.064 \pm 0.128$   $\chi^2/\text{NDF}: 48684.8/19$

Left:  $-875.906 \pm 0.093$   $\chi^2/\text{NDF}: 90854.7/41$

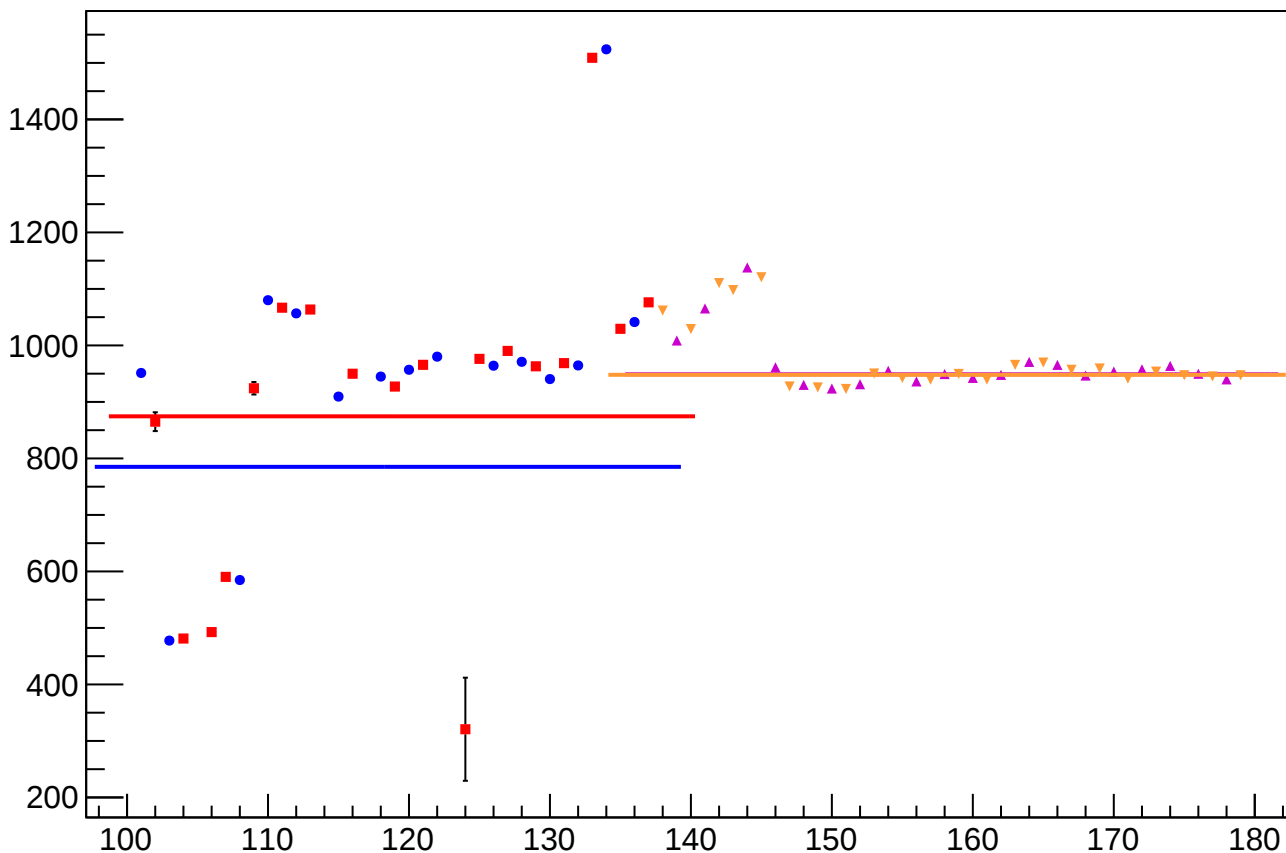
Right:  $-635.464 \pm 0.174$   $\chi^2/\text{NDF}: 783480.4/32$

In:  $-817.980 \pm 0.113$   $\chi^2/\text{NDF}: 1370292.2/34$

Out:  $-828.340 \pm 0.119$   $\chi^2/\text{NDF}: 984433.5/39$

All:  $-822.901 \pm 0.082$   $\chi^2/\text{NDF}: 2358724.5/74$

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 785.095±/0.228  $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 947.997±/0.105  $\chi^2/\text{NDF}$ : 71884.5/21

Right Out: 874.516±/0.261  $\chi^2/\text{NDF}$ : 842565.5/17

Left In: 948.939±/0.106  $\chi^2/\text{NDF}$ : 76708.2/19

Left: 948.463±/0.075  $\chi^2/\text{NDF}$ : 148632.3/41

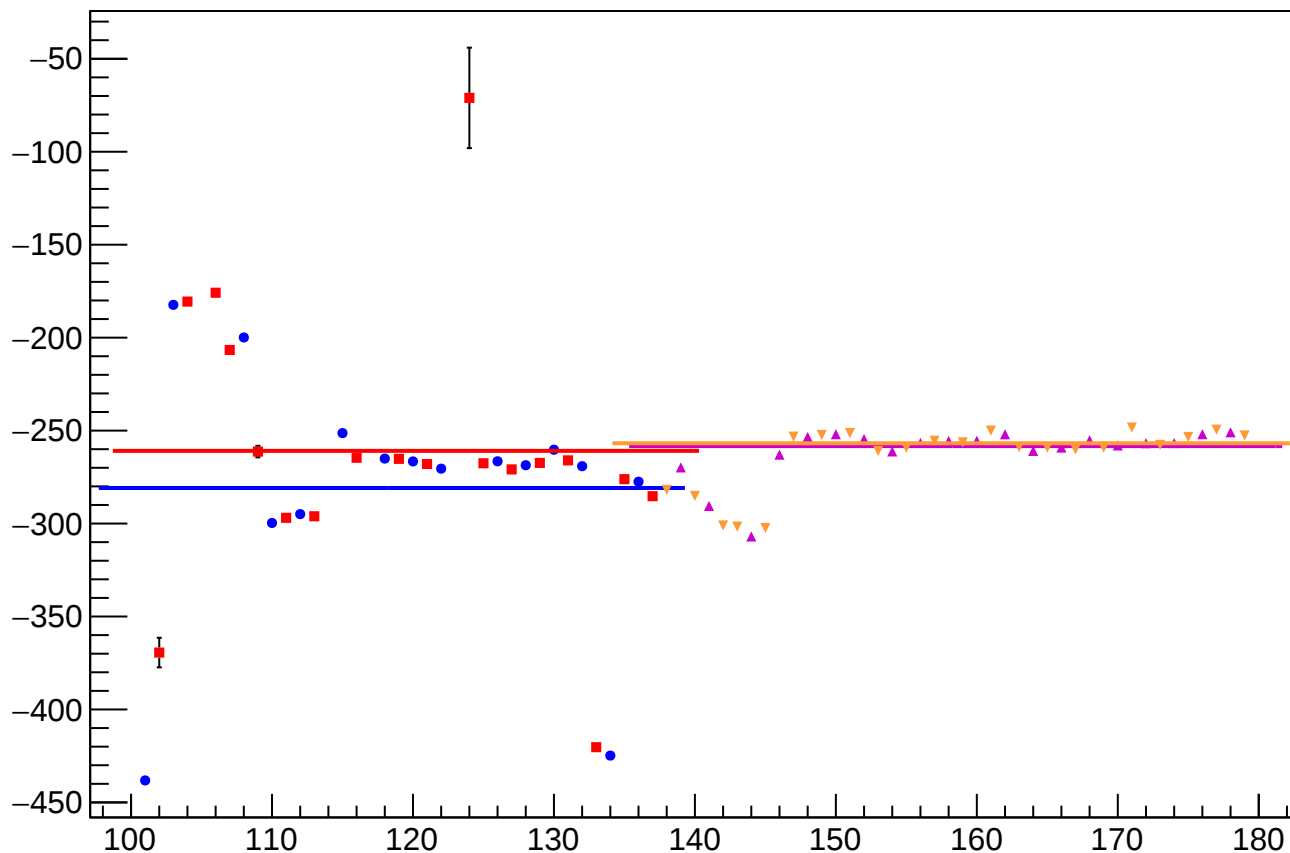
Right: 823.762±/0.172  $\chi^2/\text{NDF}$ : 1795202.4/32

In: 919.636±/0.096  $\chi^2/\text{NDF}$ : 1386760.3/34

Out: 937.741±/0.098  $\chi^2/\text{NDF}$ : 982513.2/39

All: 928.579±/0.069  $\chi^2/\text{NDF}$ : 2386682.3/74

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-256.808 \pm 0.020$   $\chi^2/\text{NDF}: 183179.0/21$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

Left In:  $-258.343 \pm 0.019$   $\chi^2/\text{NDF}: 200106.6/19$

Left:  $-257.586 \pm 0.014$   $\chi^2/\text{NDF}: 386371.1/41$

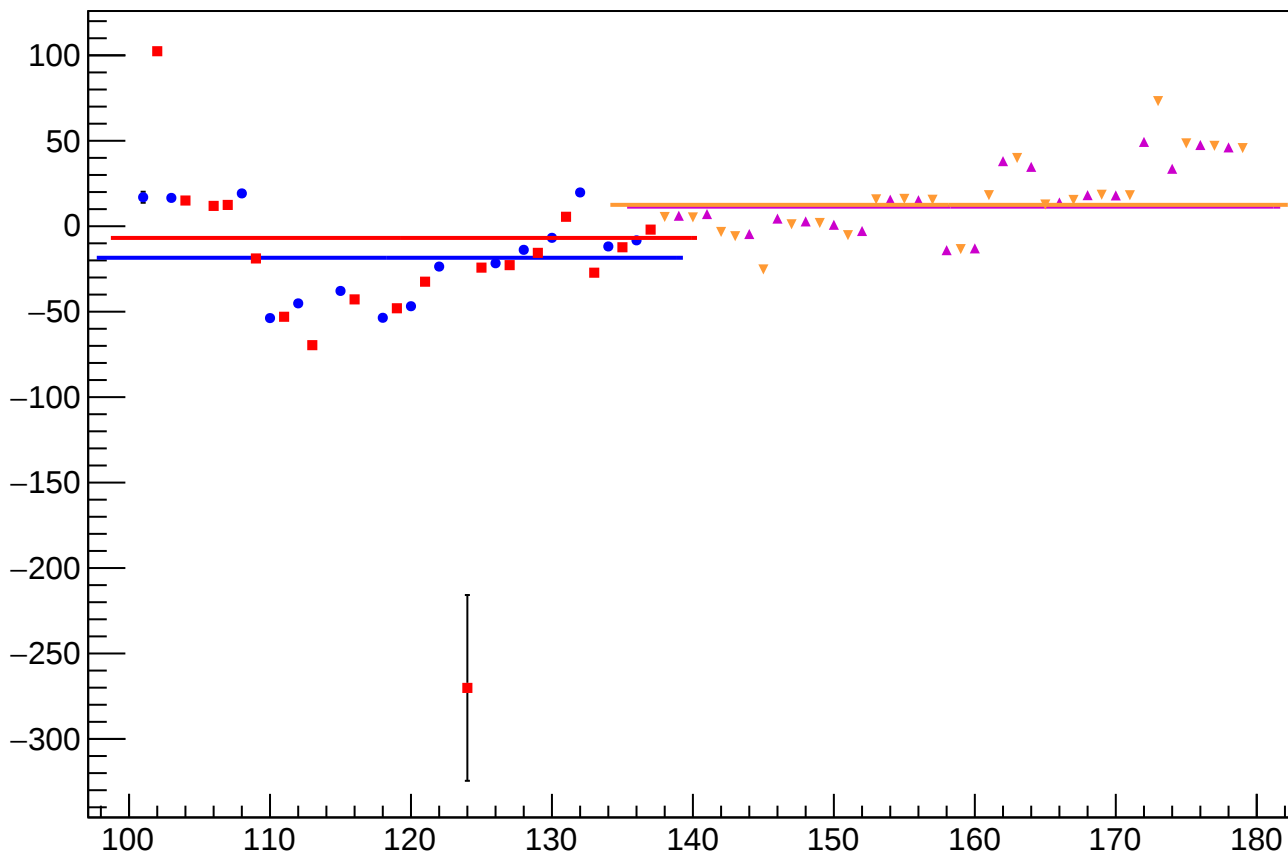
Right:  $-272.298 \pm 0.044$   $\chi^2/\text{NDF}: 1271185.3/32$

In:  $-260.573 \pm 0.018$   $\chi^2/\text{NDF}: 1207003.5/34$

Out:  $-257.127 \pm 0.019$   $\chi^2/\text{NDF}: 534273.3/39$

All:  $-258.893 \pm 0.013$   $\chi^2/\text{NDF}: 1758327.3/74$

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}: 46574.6/14$

Left Out:  $12.517 \pm 0.020$   $\chi^2/\text{NDF}: 610193.9/21$

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}: 50023.0/17$

Left In:  $11.453 \pm 0.019$   $\chi^2/\text{NDF}: 823023.2/19$

Left:  $11.956 \pm 0.014$   $\chi^2/\text{NDF}: 1434668.3/41$

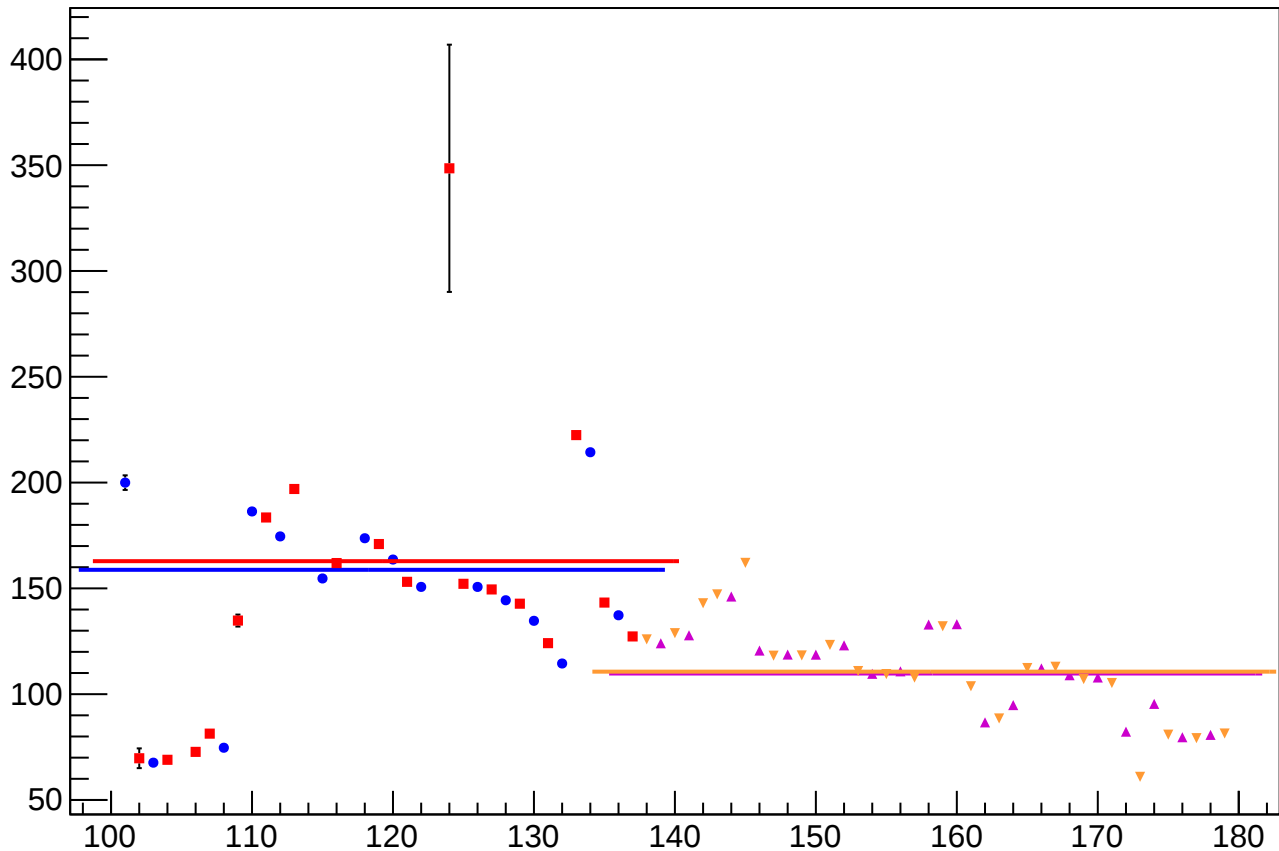
Right:  $-10.715 \pm 0.053$   $\chi^2/\text{NDF}: 107378.5/32$

In:  $10.184 \pm 0.019$   $\chi^2/\text{NDF}: 972393.5/34$

Out:  $10.776 \pm 0.019$   $\chi^2/\text{NDF}: 742024.8/39$

All:  $10.471 \pm 0.013$   $\chi^2/\text{NDF}: 1714900.2/74$

# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 110.643 $\pm$ 0.024  $\chi^2$ /NDF: 428626.2/21

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

Left In: 109.762 $\pm$ 0.021  $\chi^2$ /NDF: 581694.2/19

Left: 110.137 $\pm$ 0.016  $\chi^2$ /NDF: 1011105.4/41

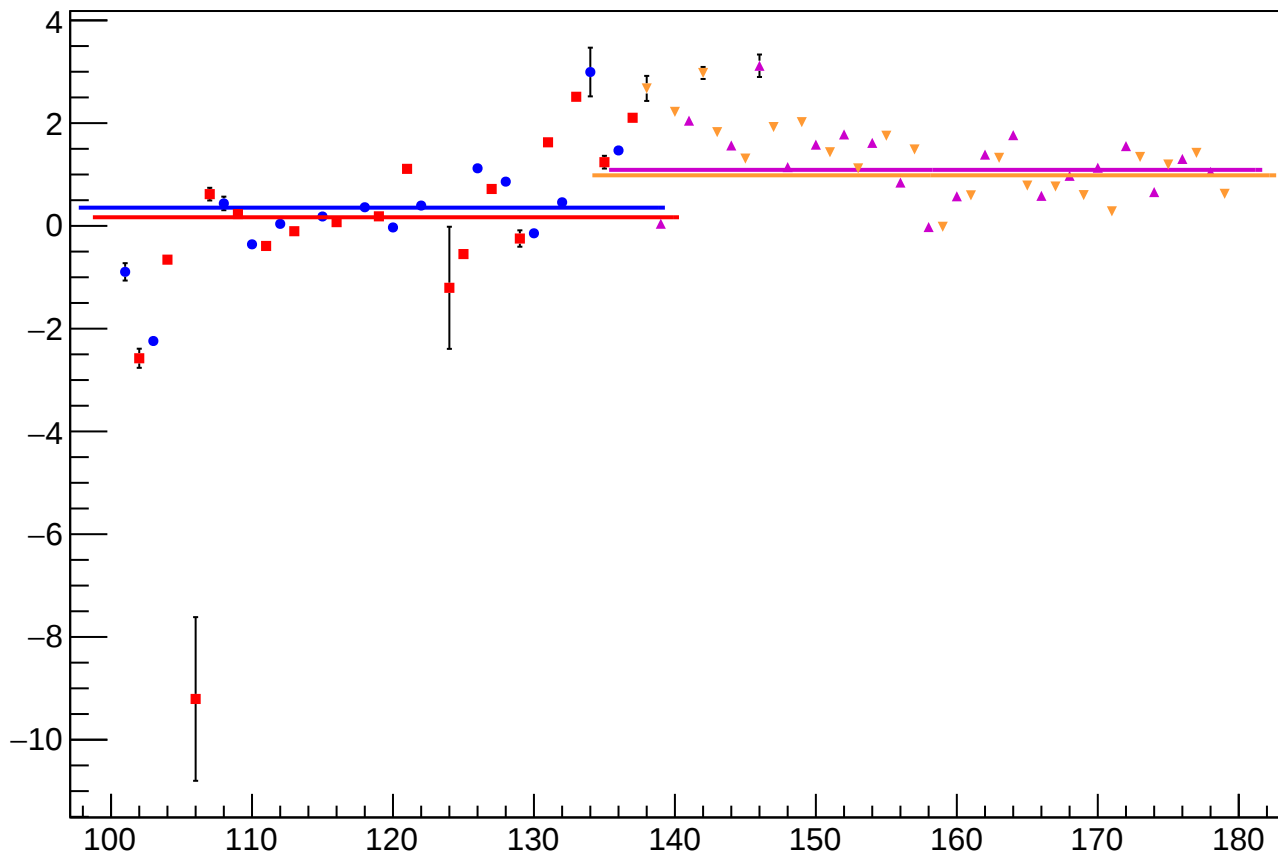
Right: 160.702 $\pm$ 0.064  $\chi^2$ /NDF: 316204.3/32

In: 112.272 $\pm$ 0.020  $\chi^2$ /NDF: 1032943.4/34

Out: 113.848 $\pm$ 0.023  $\chi^2$ /NDF: 878966.6/39

All: 112.946 $\pm$ 0.015  $\chi^2$ /NDF: 1914571.6/74

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}$ : 4011.3/14

Left Out:  $0.984 \pm 0.007$   $\chi^2/\text{NDF}$ : 6408.1/21

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}$ : 4588.1/17

Left In:  $1.091 \pm 0.007$   $\chi^2/\text{NDF}$ : 7022.8/19

Left:  $1.040 \pm 0.005$   $\chi^2/\text{NDF}$ : 13545.9/41

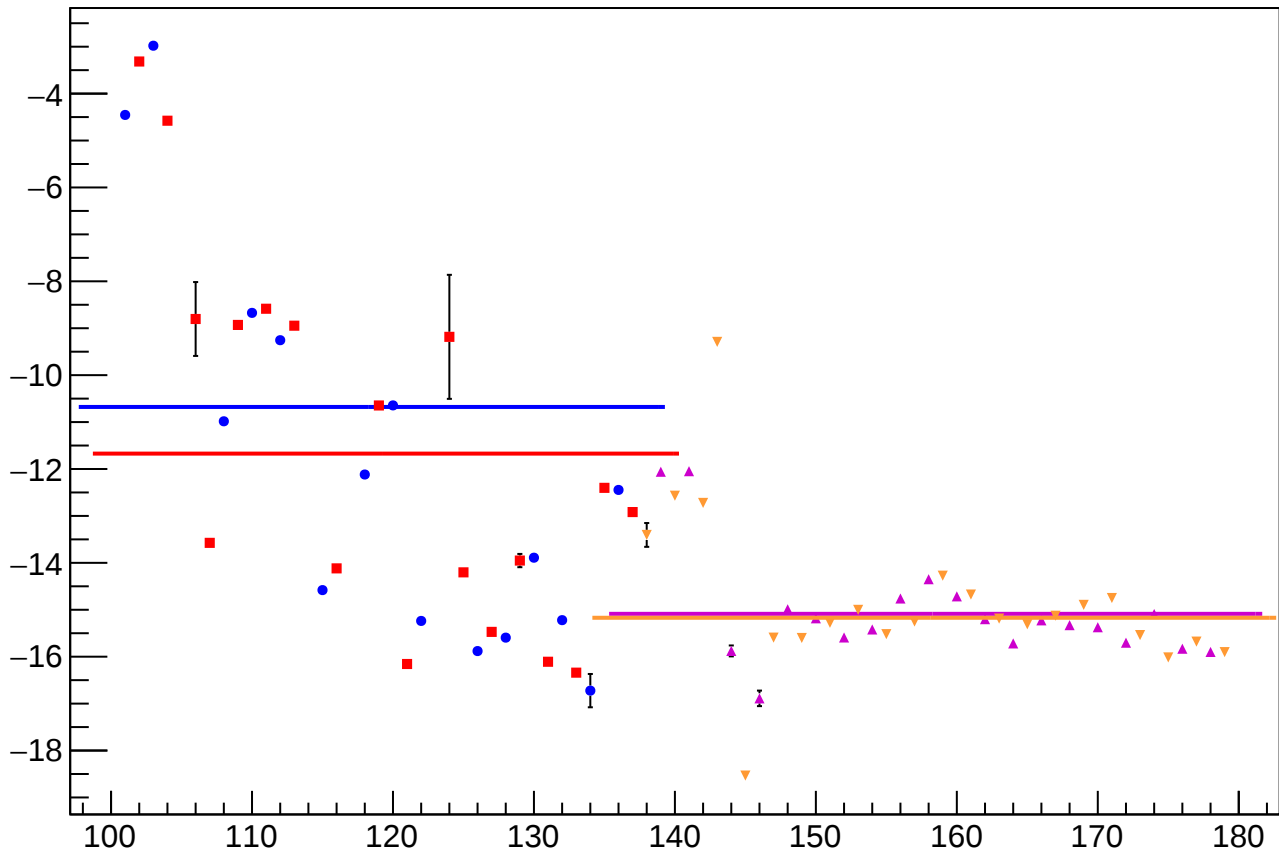
Right:  $0.223 \pm 0.006$   $\chi^2/\text{NDF}$ : 8777.2/32

In:  $0.906 \pm 0.006$   $\chi^2/\text{NDF}$ : 13963.6/34

Out:  $0.600 \pm 0.005$   $\chi^2/\text{NDF}$ : 17030.7/39

All:  $0.735 \pm 0.004$   $\chi^2/\text{NDF}$ : 32498.5/74

# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In: -10.678 $\pm$ 0.010  $\chi^2$ /NDF: 226791.0/14

Left Out: -15.171 $\pm$ 0.006  $\chi^2$ /NDF: 37950.5/21

Right Out: -11.672 $\pm$ 0.012  $\chi^2$ /NDF: 107844.6/17

Left In: -15.087 $\pm$ 0.006  $\chi^2$ /NDF: 14126.2/19

Left: -15.130 $\pm$ 0.004  $\chi^2$ /NDF: 52176.6/41

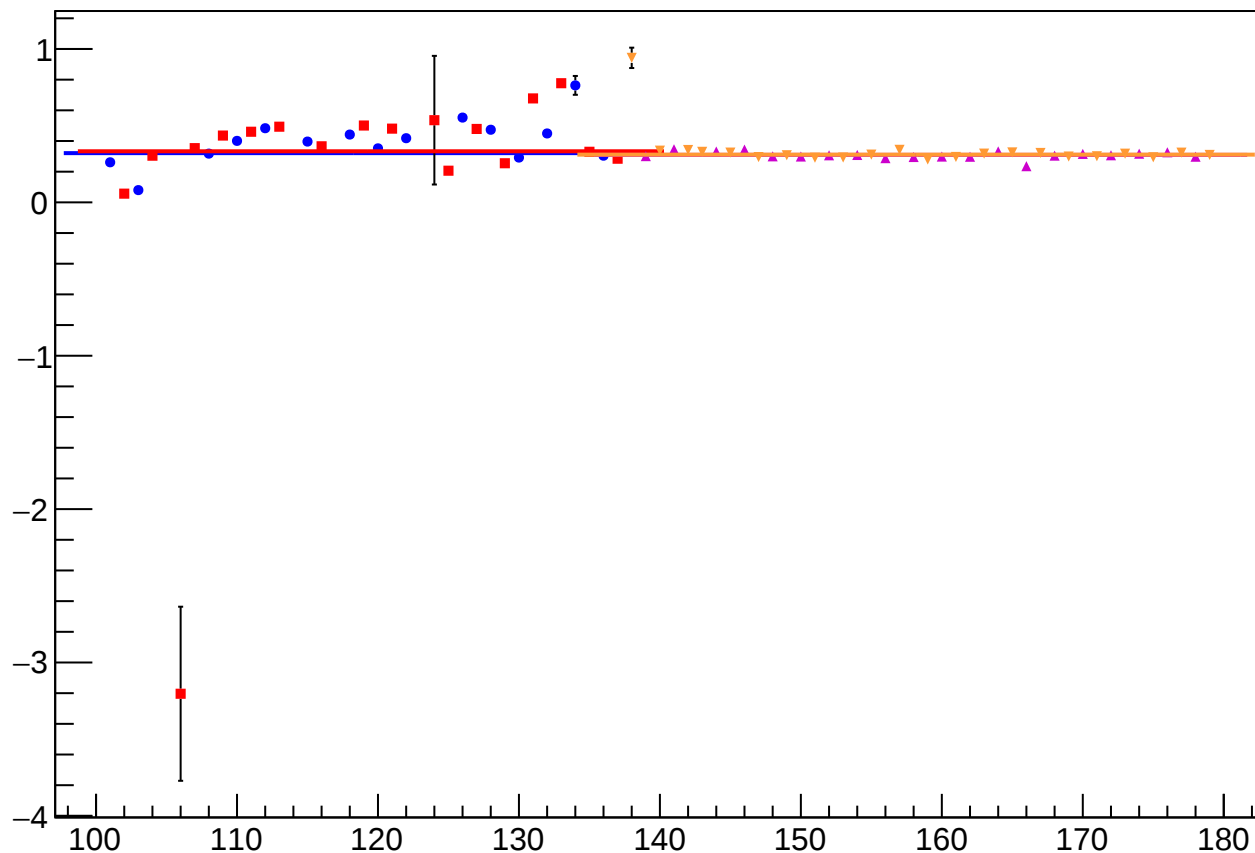
Right: -11.113 $\pm$ 0.008  $\chi^2$ /NDF: 338735.1/32

In: -13.946 $\pm$ 0.005  $\chi^2$ /NDF: 377313.3/34

Out: -14.471 $\pm$ 0.005  $\chi^2$ /NDF: 218048.0/39

All: -14.209 $\pm$ 0.004  $\chi^2$ /NDF: 600415.4/74

# dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.321+/-0.001  $\chi^2/\text{NDF}$ : 4017.7/14

Left Out: 0.311+/-0.000  $\chi^2/\text{NDF}$ : 5109.7/21

Right Out: 0.333+/-0.001  $\chi^2/\text{NDF}$ : 4170.0/17

Left In: 0.309+/-0.000  $\chi^2/\text{NDF}$ : 2989.9/19

Left: 0.310+/-0.000  $\chi^2/\text{NDF}$ : 8124.0/41

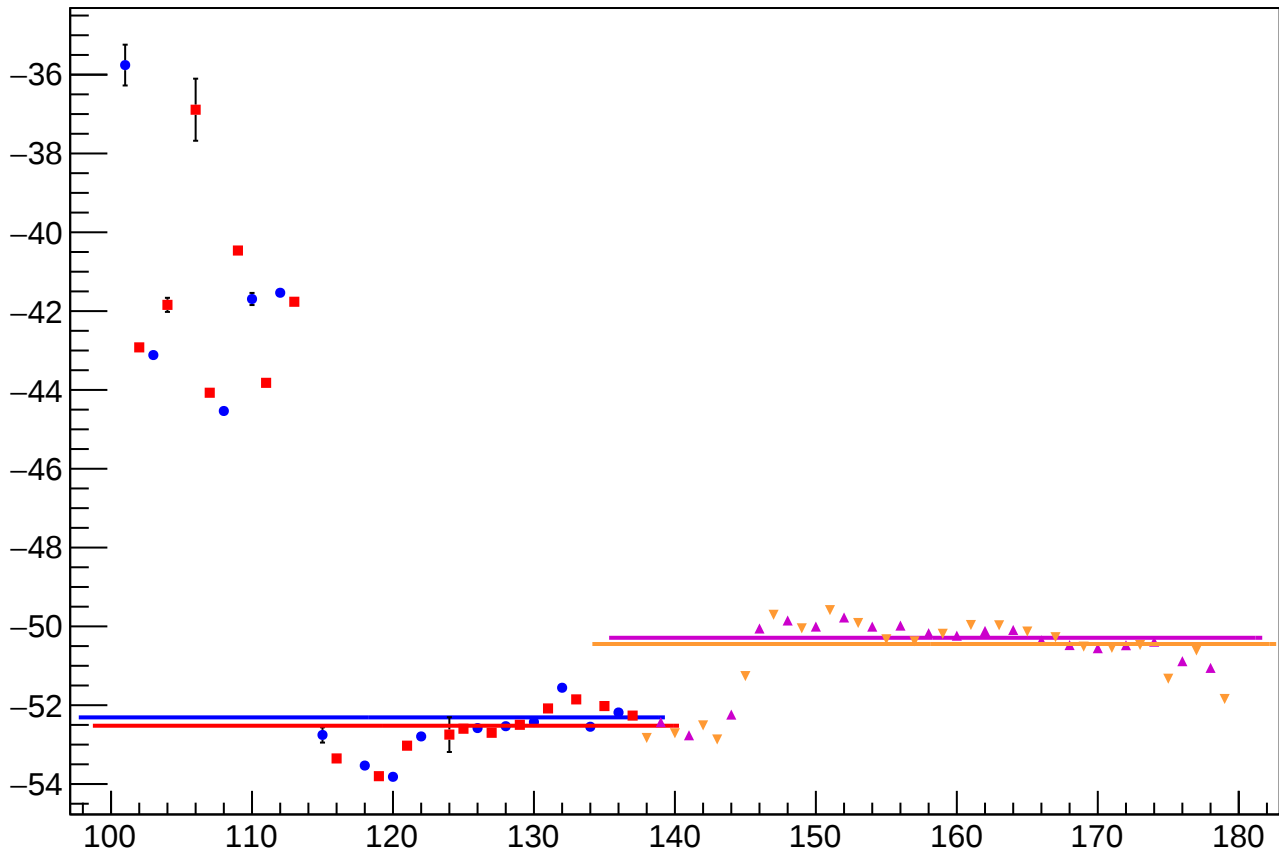
Right: 0.325+/-0.001  $\chi^2/\text{NDF}$ : 8247.8/32

In: 0.310+/-0.000  $\chi^2/\text{NDF}$ : 7148.4/34

Out: 0.312+/-0.000  $\chi^2/\text{NDF}$ : 9577.5/39

All: 0.311+/-0.000  $\chi^2/\text{NDF}$ : 16751.5/74

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}: 53459.2/14$

Left Out:  $-50.447 \pm 0.002$   $\chi^2/\text{NDF}: 255624.8/21$

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}: 76616.3/17$

Left In:  $-50.289 \pm 0.001$   $\chi^2/\text{NDF}: 167509.5/19$

Left:  $-50.357 \pm 0.001$   $\chi^2/\text{NDF}: 429416.6/41$

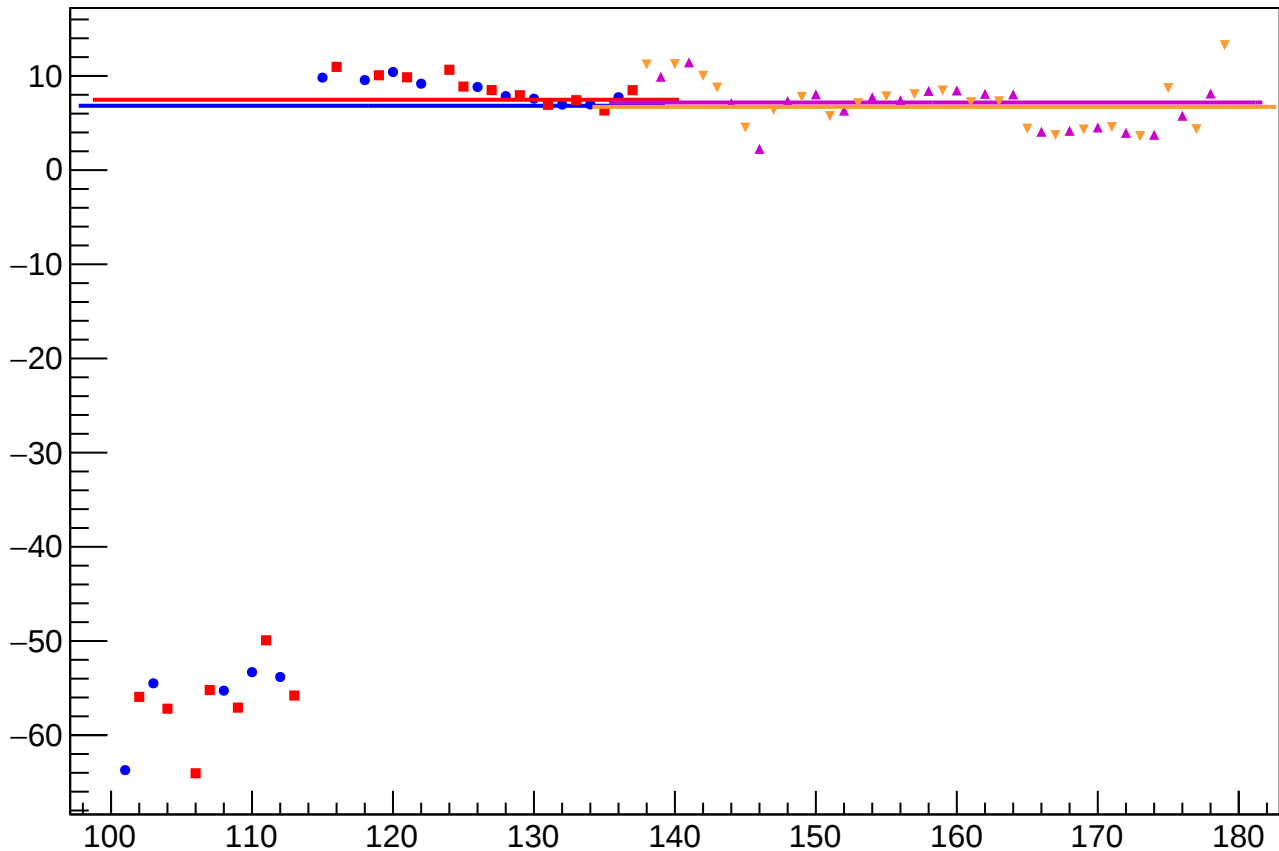
Right:  $-52.410 \pm 0.003$   $\chi^2/\text{NDF}: 131177.9/32$

In:  $-50.451 \pm 0.001$   $\chi^2/\text{NDF}: 413571.0/34$

Out:  $-50.646 \pm 0.001$   $\chi^2/\text{NDF}: 515549.5/39$

All:  $-50.536 \pm 0.001$   $\chi^2/\text{NDF}: 939692.6/74$

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $6.834 \pm 0.005$   $\chi^2/\text{NDF}: 990576.4/14$

Left Out:  $6.718 \pm 0.004$   $\chi^2/\text{NDF}: 333502.3/21$

Right Out:  $7.474 \pm 0.009$   $\chi^2/\text{NDF}: 1195498.7/17$

Left In:  $7.181 \pm 0.003$   $\chi^2/\text{NDF}: 197463.0/19$

Left:  $6.966 \pm 0.003$   $\chi^2/\text{NDF}: 539145.6/41$

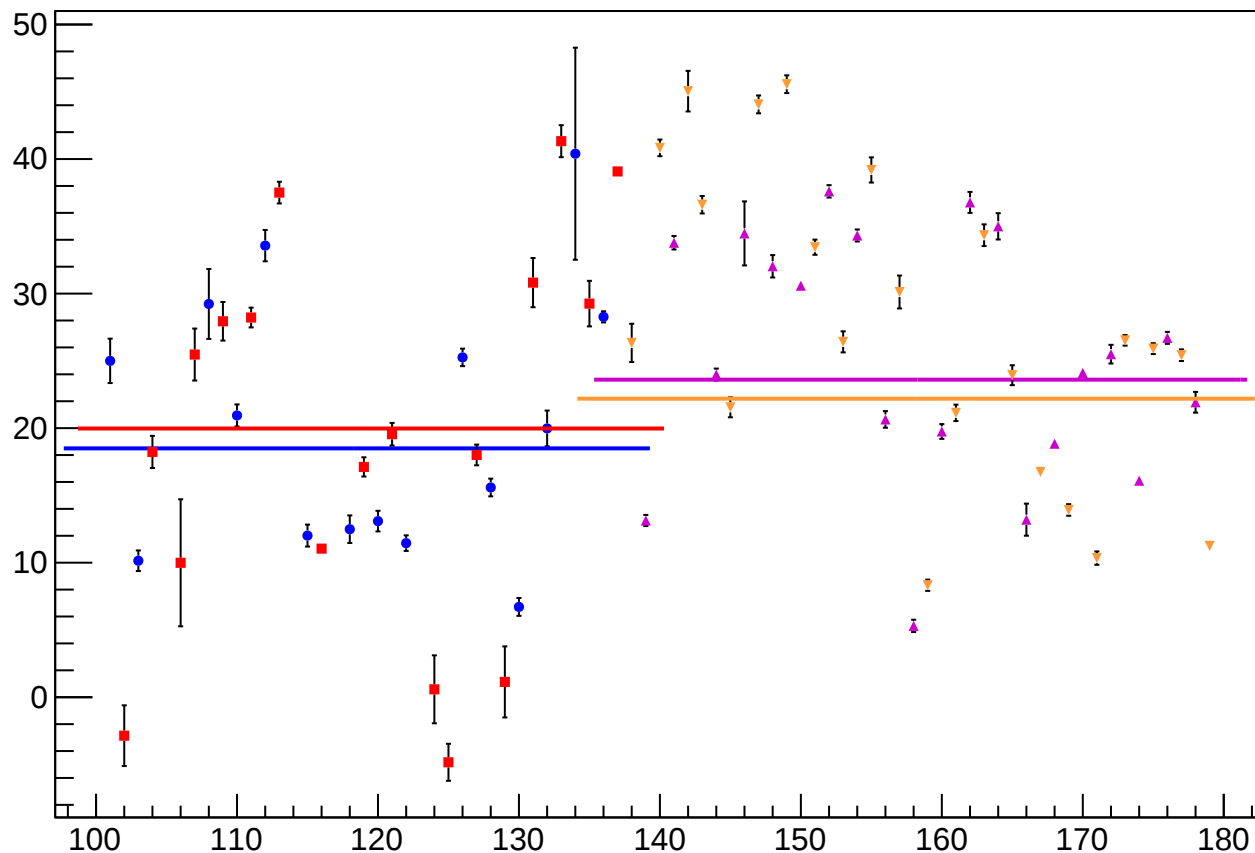
Right:  $6.980 \pm 0.004$   $\chi^2/\text{NDF}: 2189734.1/32$

In:  $7.069 \pm 0.003$   $\chi^2/\text{NDF}: 1191226.2/34$

Out:  $6.824 \pm 0.003$   $\chi^2/\text{NDF}: 1534687.4/39$

All:  $6.970 \pm 0.002$   $\chi^2/\text{NDF}: 2728887.2/74$

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $18.496 \pm 0.200$   $\chi^2/\text{NDF}$ : 1636.7/14

Left Out:  $22.191 \pm 0.111$   $\chi^2/\text{NDF}$ : 8841.4/21

Right Out:  $19.974 \pm 0.130$   $\chi^2/\text{NDF}$ : 9201.3/17

Left In:  $23.603 \pm 0.105$   $\chi^2/\text{NDF}$ : 6167.6/19

Left:  $22.936 \pm 0.076$   $\chi^2/\text{NDF}$ : 15094.8/41

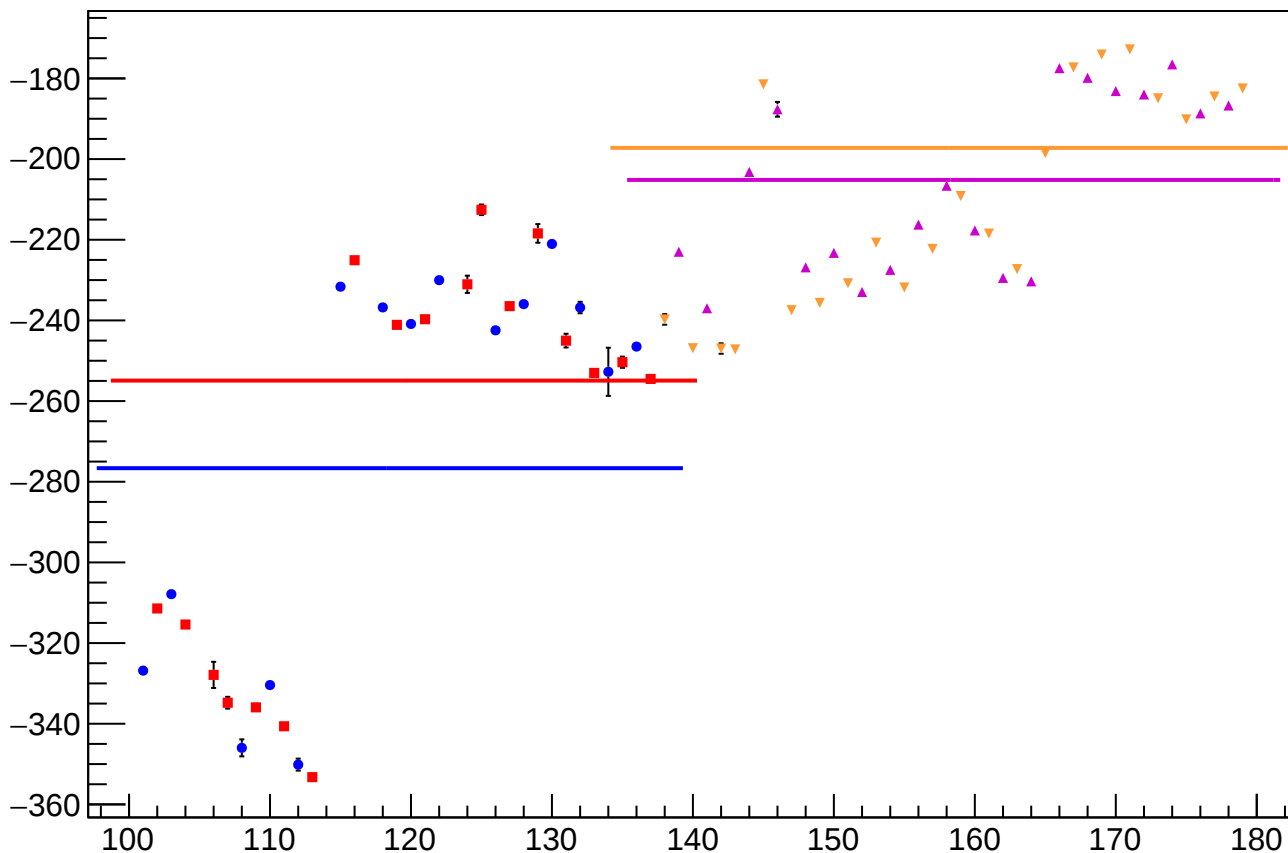
Right:  $19.534 \pm 0.109$   $\chi^2/\text{NDF}$ : 10876.3/32

In:  $22.503 \pm 0.093$   $\chi^2/\text{NDF}$ : 8315.6/34

Out:  $21.260 \pm 0.084$   $\chi^2/\text{NDF}$ : 18211.0/39

All:  $21.822 \pm 0.062$   $\chi^2/\text{NDF}$ : 26624.8/74

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-276.636 \pm 0.148$   $\chi^2/\text{NDF}: 77119.6/14$

Left Out:  $-197.222 \pm 0.092$   $\chi^2/\text{NDF}: 67603.2/21$

Right Out:  $-254.921 \pm 0.071$   $\chi^2/\text{NDF}: 71945.8/17$

Left In:  $-205.167 \pm 0.092$   $\chi^2/\text{NDF}: 56181.8/19$

Left:  $-201.199 \pm 0.065$   $\chi^2/\text{NDF}: 127499.5/41$

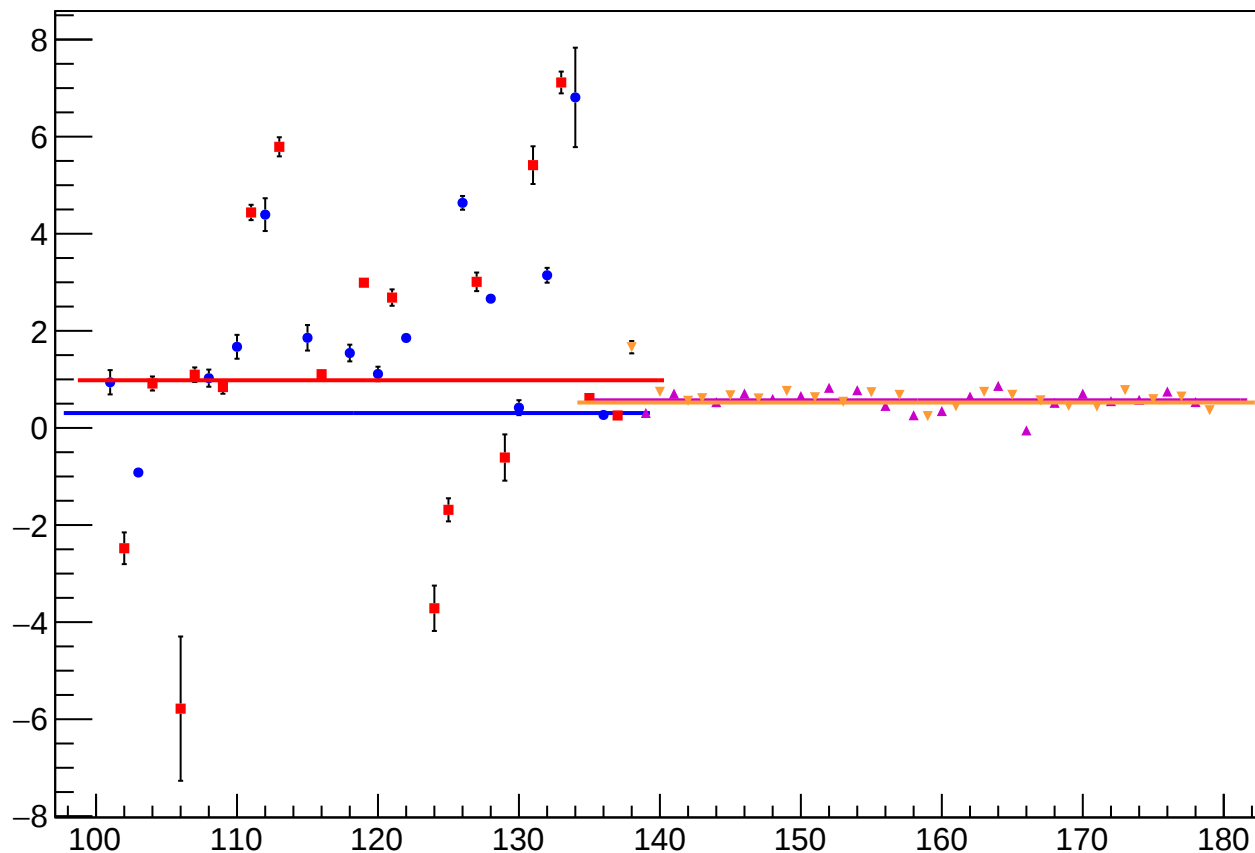
Right:  $-259.025 \pm 0.064$   $\chi^2/\text{NDF}: 166632.3/32$

In:  $-225.213 \pm 0.078$   $\chi^2/\text{NDF}: 302125.8/34$

Out:  $-233.366 \pm 0.056$   $\chi^2/\text{NDF}: 384697.2/39$

All:  $-230.575 \pm 0.046$   $\chi^2/\text{NDF}: 693982.0/74$

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}$ : 2787.0/14

Left Out:  $0.524 \pm 0.002$   $\chi^2/\text{NDF}$ : 10651.7/21

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}$ : 3374.7/17

Left In:  $0.569 \pm 0.002$   $\chi^2/\text{NDF}$ : 15650.9/19

Left:  $0.549 \pm 0.001$   $\chi^2/\text{NDF}$ : 26667.8/41

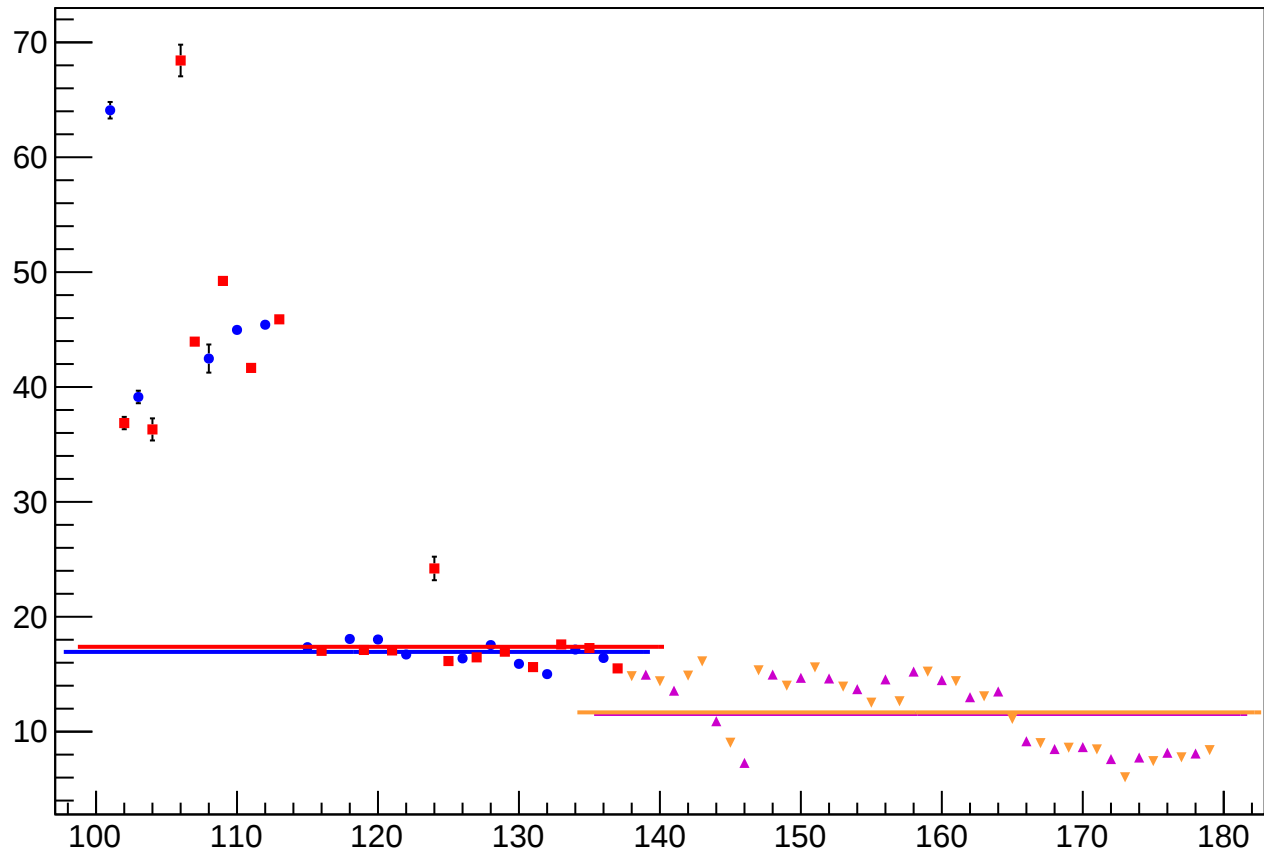
Right:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}$ : 7919.2/32

In:  $0.555 \pm 0.002$   $\chi^2/\text{NDF}$ : 19918.6/34

Out:  $0.530 \pm 0.002$   $\chi^2/\text{NDF}$ : 14986.8/39

All:  $0.544 \pm 0.001$   $\chi^2/\text{NDF}$ : 35016.9/74

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}: 29019.8/14$

Left Out:  $11.677 \pm 0.007$   $\chi^2/\text{NDF}: 215937.1/21$

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}: 61131.5/17$

Left In:  $11.536 \pm 0.007$   $\chi^2/\text{NDF}: 195114.6/19$

Left:  $11.605 \pm 0.005$   $\chi^2/\text{NDF}: 411244.8/41$

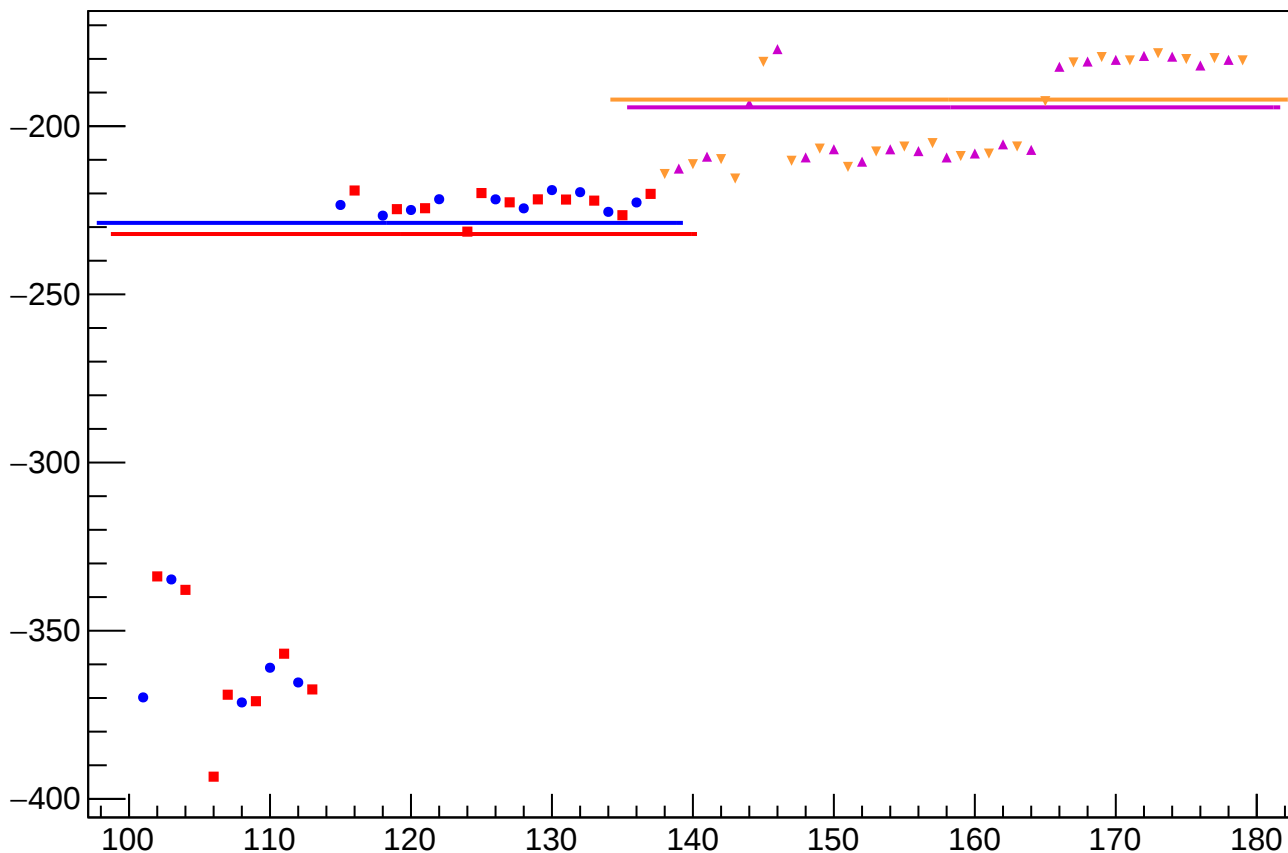
Right:  $17.096 \pm 0.010$   $\chi^2/\text{NDF}: 90566.4/32$

In:  $12.788 \pm 0.006$   $\chi^2/\text{NDF}: 359658.0/34$

Out:  $12.510 \pm 0.007$   $\chi^2/\text{NDF}: 367016.3/39$

All:  $12.660 \pm 0.005$   $\chi^2/\text{NDF}: 727602.7/74$

# dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}: 657578.5/14$

Left Out:  $-192.091 \pm 0.012$   $\chi^2/\text{NDF}: 1356330.7/21$

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}: 791526.5/17$

Left In:  $-194.397 \pm 0.013$   $\chi^2/\text{NDF}: 1217581.6/19$

Left:  $-193.219 \pm 0.009$   $\chi^2/\text{NDF}: 2590926.0/41$

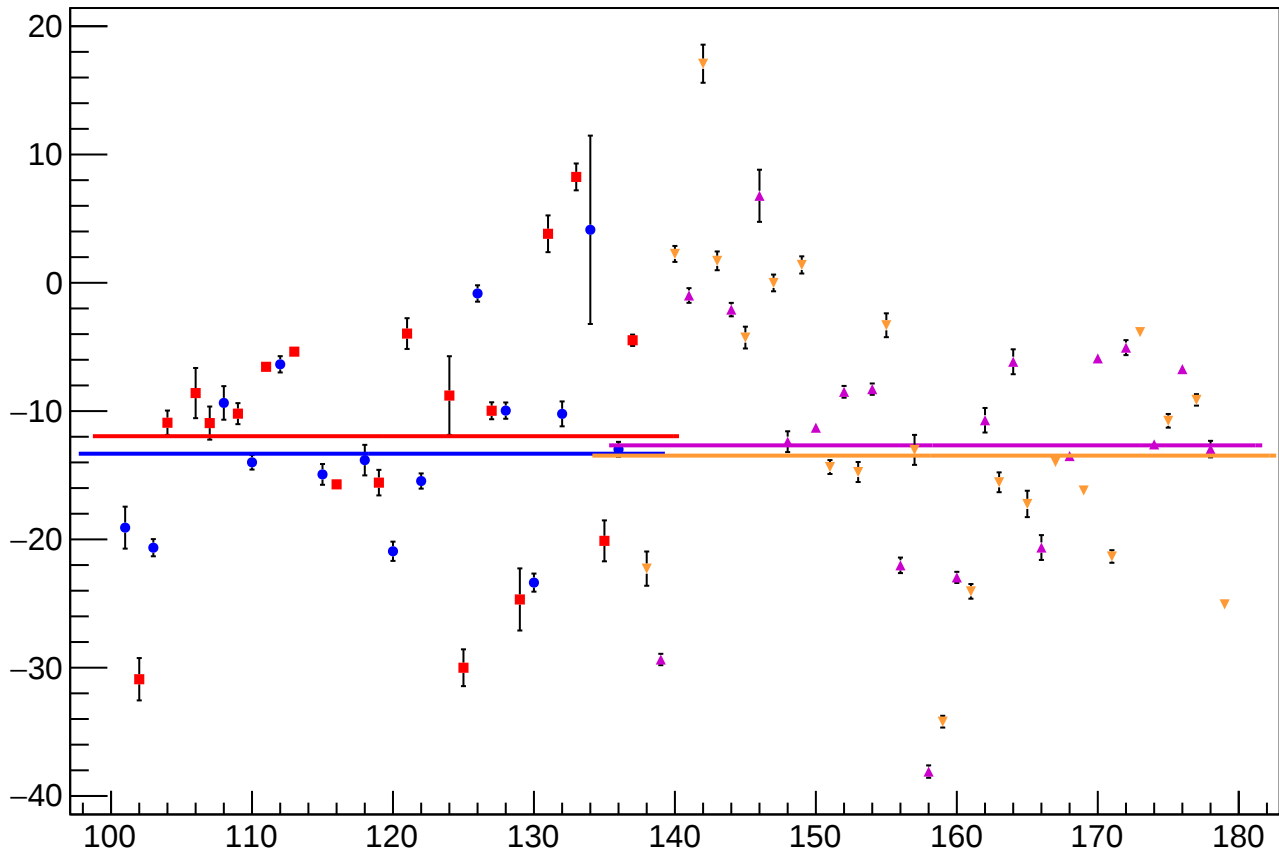
Right:  $-230.117 \pm 0.027$   $\chi^2/\text{NDF}: 1452870.5/32$

In:  $-198.426 \pm 0.012$   $\chi^2/\text{NDF}: 2741037.6/34$

Out:  $-195.379 \pm 0.012$   $\chi^2/\text{NDF}: 3007251.5/39$

All:  $-196.898 \pm 0.008$   $\chi^2/\text{NDF}: 5781276.5/74$

# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $-13.469 \pm 0.115$   $\chi^2/\text{NDF}: 7152.6/21$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

Left In:  $-12.670 \pm 0.105$   $\chi^2/\text{NDF}: 7184.7/19$

Left:  $-13.032 \pm 0.078$   $\chi^2/\text{NDF}: 14363.5/41$

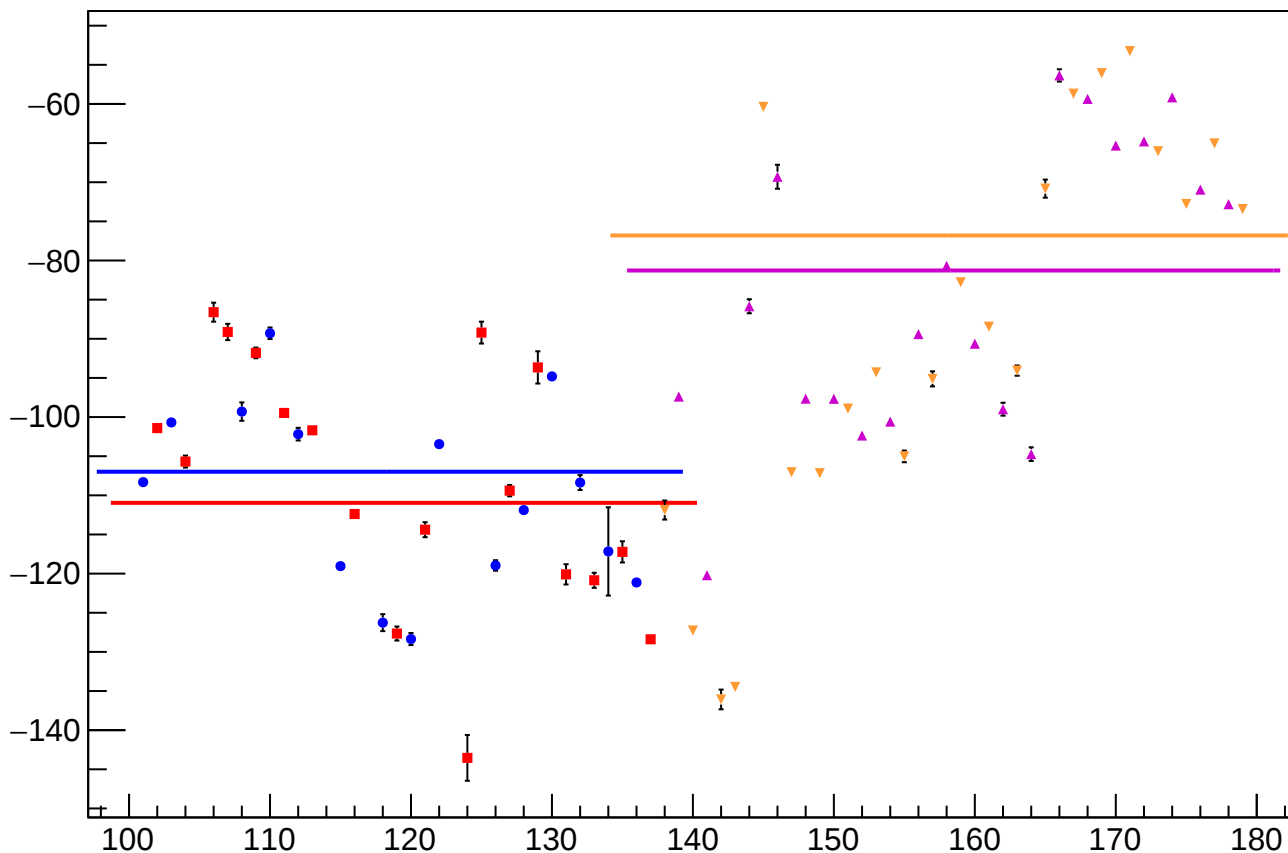
Right:  $-12.301 \pm 0.097$   $\chi^2/\text{NDF}: 3537.3/32$

In:  $-12.818 \pm 0.092$   $\chi^2/\text{NDF}: 8206.4/34$

Out:  $-12.694 \pm 0.081$   $\chi^2/\text{NDF}: 9727.7/39$

All:  $-12.748 \pm 0.061$   $\chi^2/\text{NDF}: 17935.2/74$

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}$ : 4658.3/14

Left Out:  $-76.800 \pm 0.093$   $\chi^2/\text{NDF}$ : 53176.1/21

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}$ : 10675.0/17

Left In:  $-81.274 \pm 0.090$   $\chi^2/\text{NDF}$ : 41834.7/19

Left:  $-79.093 \pm 0.065$   $\chi^2/\text{NDF}$ : 96205.7/41

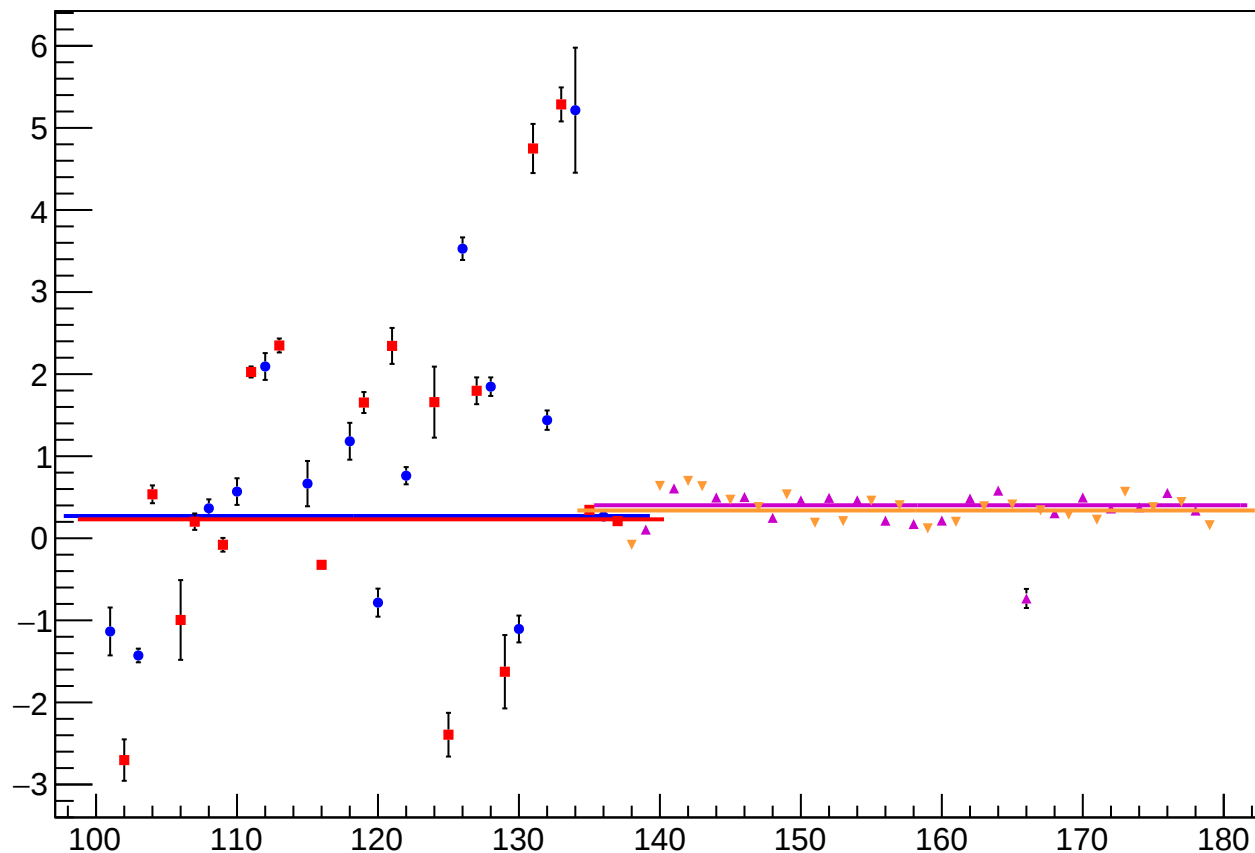
Right:  $-110.271 \pm 0.046$   $\chi^2/\text{NDF}$ : 16412.2/32

In:  $-91.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 79101.4/34

Out:  $-103.209 \pm 0.044$   $\chi^2/\text{NDF}$ : 168892.9/39

All:  $-99.904 \pm 0.037$   $\chi^2/\text{NDF}$ : 267648.4/74

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.271 \pm 0.005$   $\chi^2/\text{NDF}: 1612.2/14$

Left Out:  $0.339 \pm 0.002$   $\chi^2/\text{NDF}: 10101.1/21$

Right Out:  $0.231 \pm 0.004$   $\chi^2/\text{NDF}: 2907.8/17$

Left In:  $0.402 \pm 0.002$   $\chi^2/\text{NDF}: 9508.9/19$

Left:  $0.374 \pm 0.001$   $\chi^2/\text{NDF}: 20367.0/41$

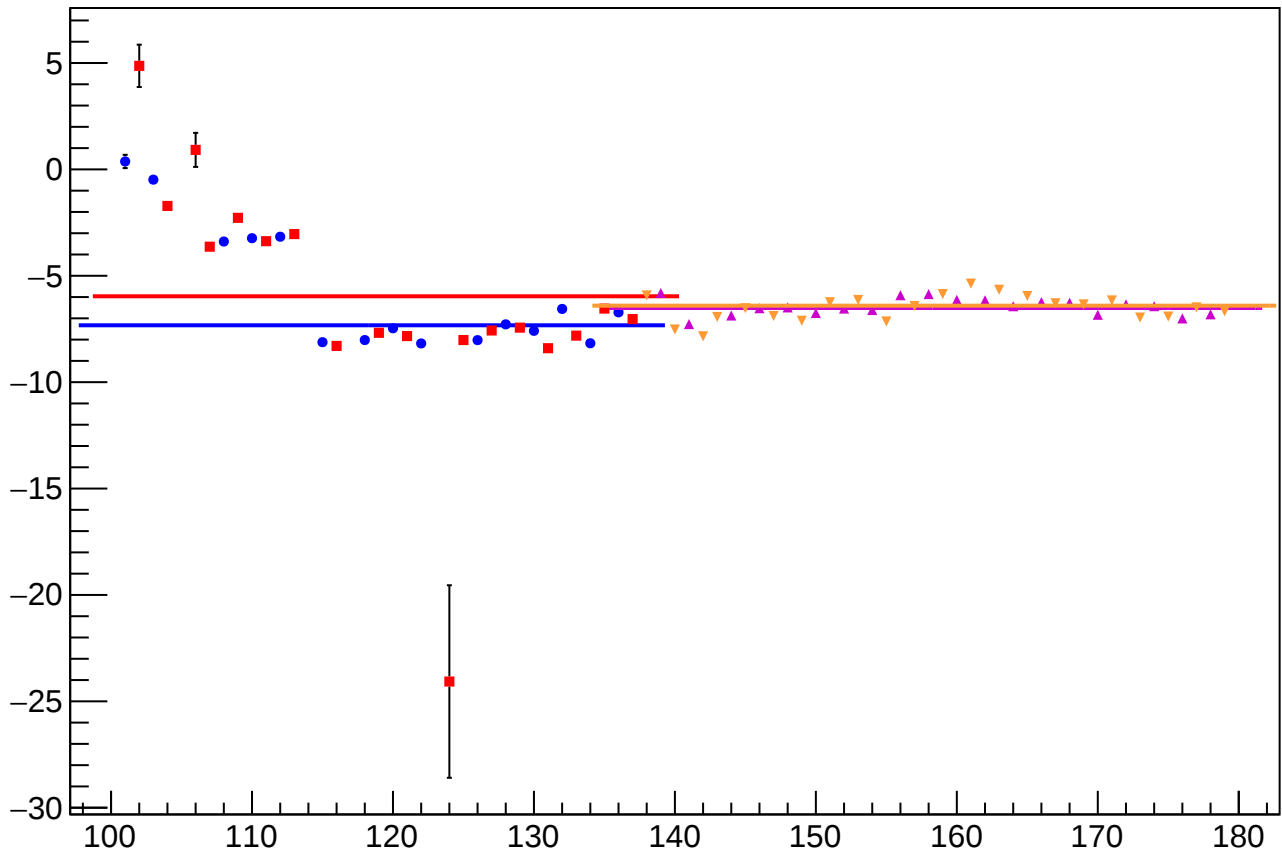
Right:  $0.247 \pm 0.003$   $\chi^2/\text{NDF}: 4554.2/32$

In:  $0.392 \pm 0.001$   $\chi^2/\text{NDF}: 11680.2/34$

Out:  $0.325 \pm 0.002$   $\chi^2/\text{NDF}: 13529.7/39$

All:  $0.361 \pm 0.001$   $\chi^2/\text{NDF}: 26169.0/74$

# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In: -7.327+/-0.008  $\chi^2/\text{NDF}$ : 30494.2/14

Left Out: -6.405+/-0.005  $\chi^2/\text{NDF}$ : 6604.3/21

Right Out: -5.964+/-0.009  $\chi^2/\text{NDF}$ : 71807.1/17

Left In: -6.514+/-0.005  $\chi^2/\text{NDF}$ : 6737.6/19

Left: -6.463+/-0.003  $\chi^2/\text{NDF}$ : 13601.6/41

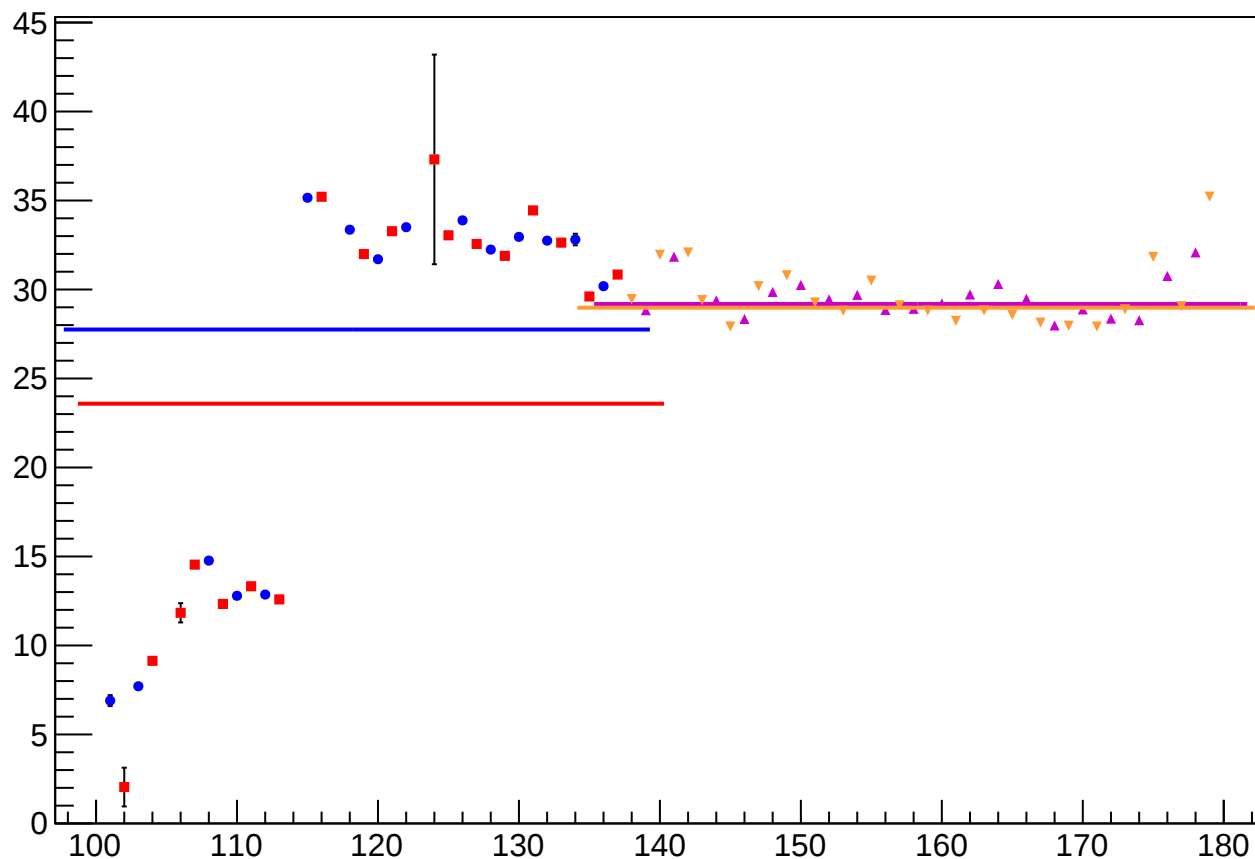
Right: -6.677+/-0.006  $\chi^2/\text{NDF}$ : 114918.0/32

In: -6.708+/-0.004  $\chi^2/\text{NDF}$ : 44389.3/34

Out: -6.299+/-0.004  $\chi^2/\text{NDF}$ : 80330.0/39

All: -6.514+/-0.003  $\chi^2/\text{NDF}$ : 129470.8/74

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 28.979 $\pm$ 0.009  $\chi^2$ /NDF:30111.8/21

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

Left In: 29.185 $\pm$ 0.009  $\chi^2$ /NDF:8438.2/19

Left: 29.083 $\pm$ 0.006  $\chi^2$ /NDF: 38837.3/41

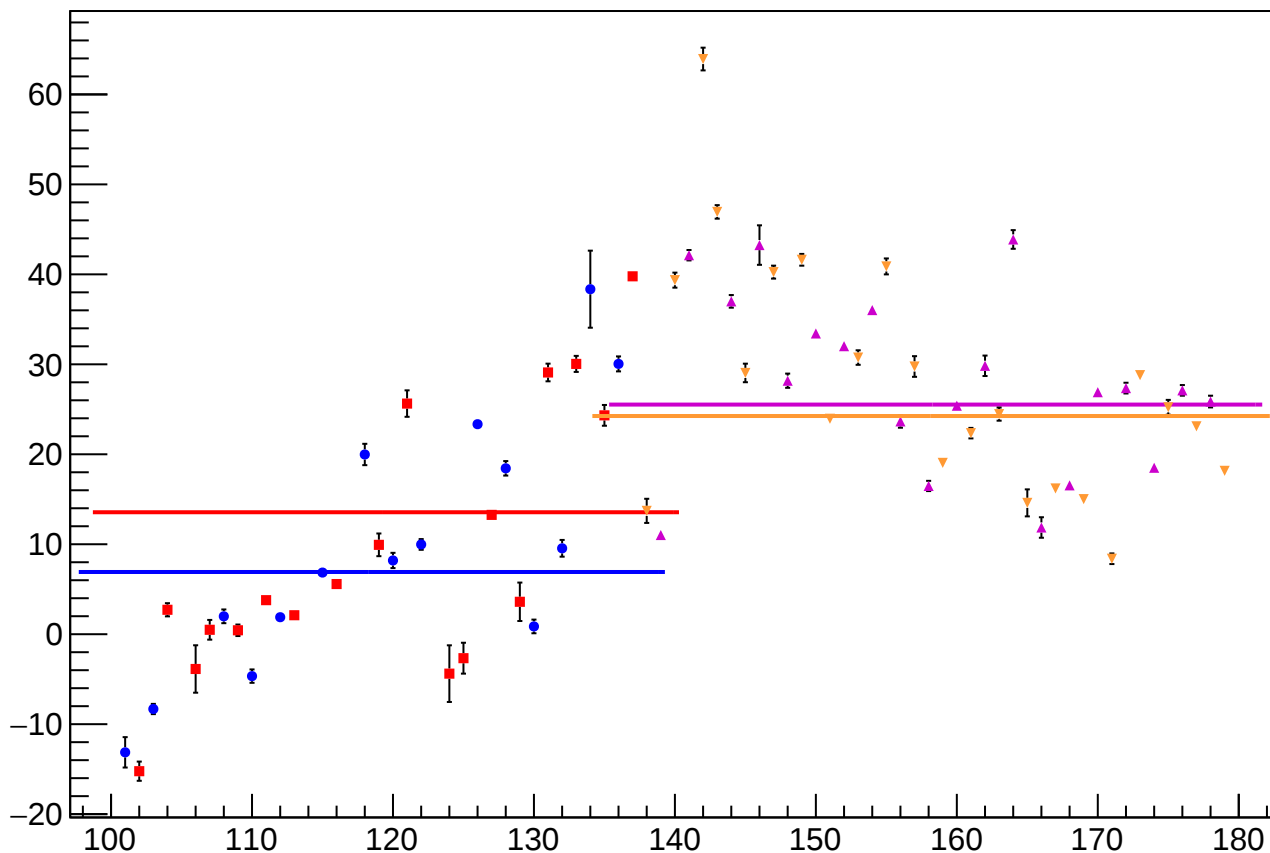
Right: 25.477 $\pm$ 0.010  $\chi^2$ /NDF: 914478.1/32

In: 28.834 $\pm$ 0.007  $\chi^2$ /NDF:348221.4/34

Out: 27.434 $\pm$ 0.007  $\chi^2$ /NDF:680121.4/39

All: 28.123 $\pm$ 0.005  $\chi^2$ /NDF: 1046263.2/74

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $24.253 \pm 0.131$   $\chi^2/\text{NDF}: 6127.5/21$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

Left In:  $25.525 \pm 0.116$   $\chi^2/\text{NDF}: 5820.1/19$

Left:  $24.961 \pm 0.087$   $\chi^2/\text{NDF}: 12000.4/41$

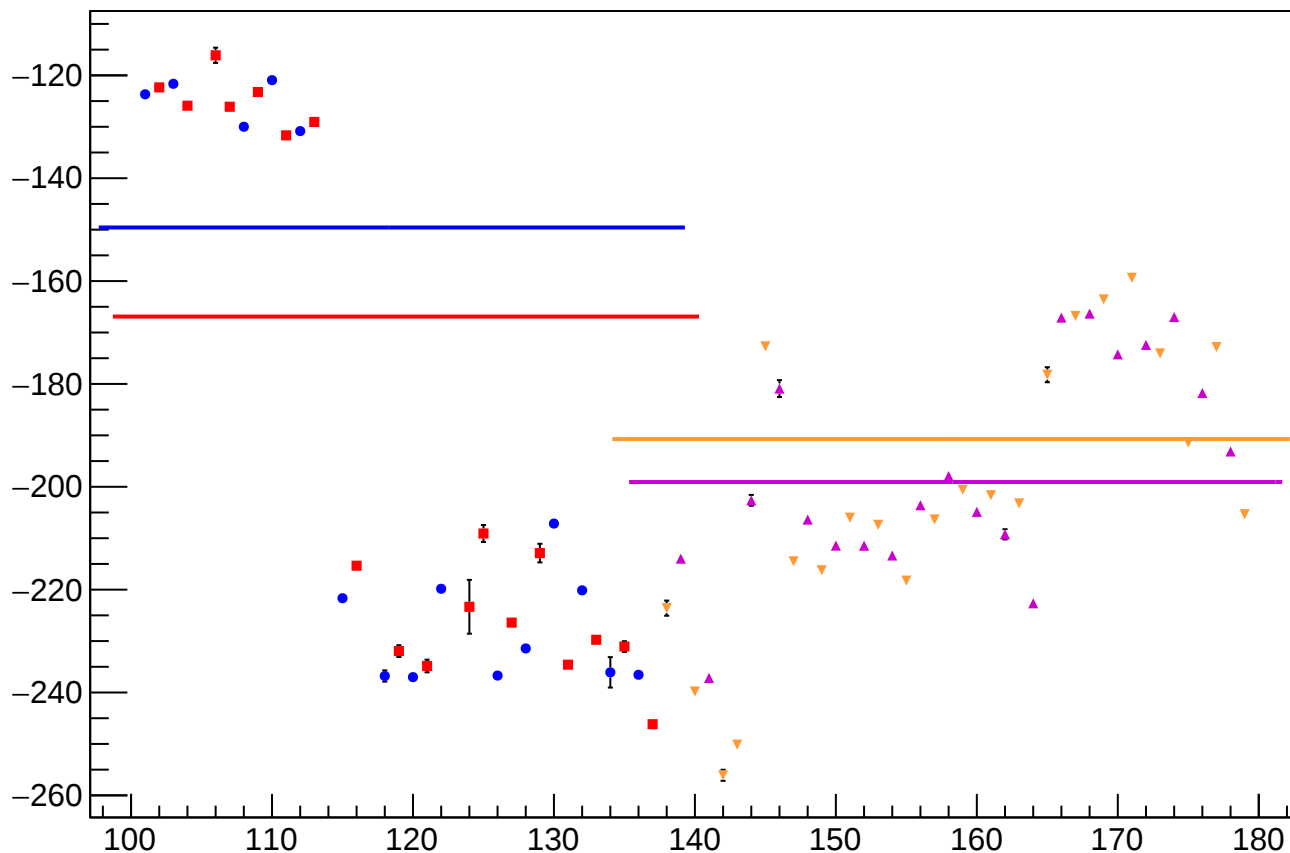
Right:  $10.880 \pm 0.112$   $\chi^2/\text{NDF}: 16004.9/32$

In:  $19.885 \pm 0.097$   $\chi^2/\text{NDF}: 17065.6/34$

Out:  $19.465 \pm 0.097$   $\chi^2/\text{NDF}: 20787.8/39$

All:  $19.675 \pm 0.069$   $\chi^2/\text{NDF}: 37862.7/74$

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}$ : 195091.5/14

Left Out:  $-190.718 \pm 0.107$   $\chi^2/\text{NDF}$ : 50592.3/21

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}$ : 295489.9/17

Left In:  $-199.072 \pm 0.101$   $\chi^2/\text{NDF}$ : 39924.6/19

Left:  $-195.125 \pm 0.073$   $\chi^2/\text{NDF}$ : 93737.3/41

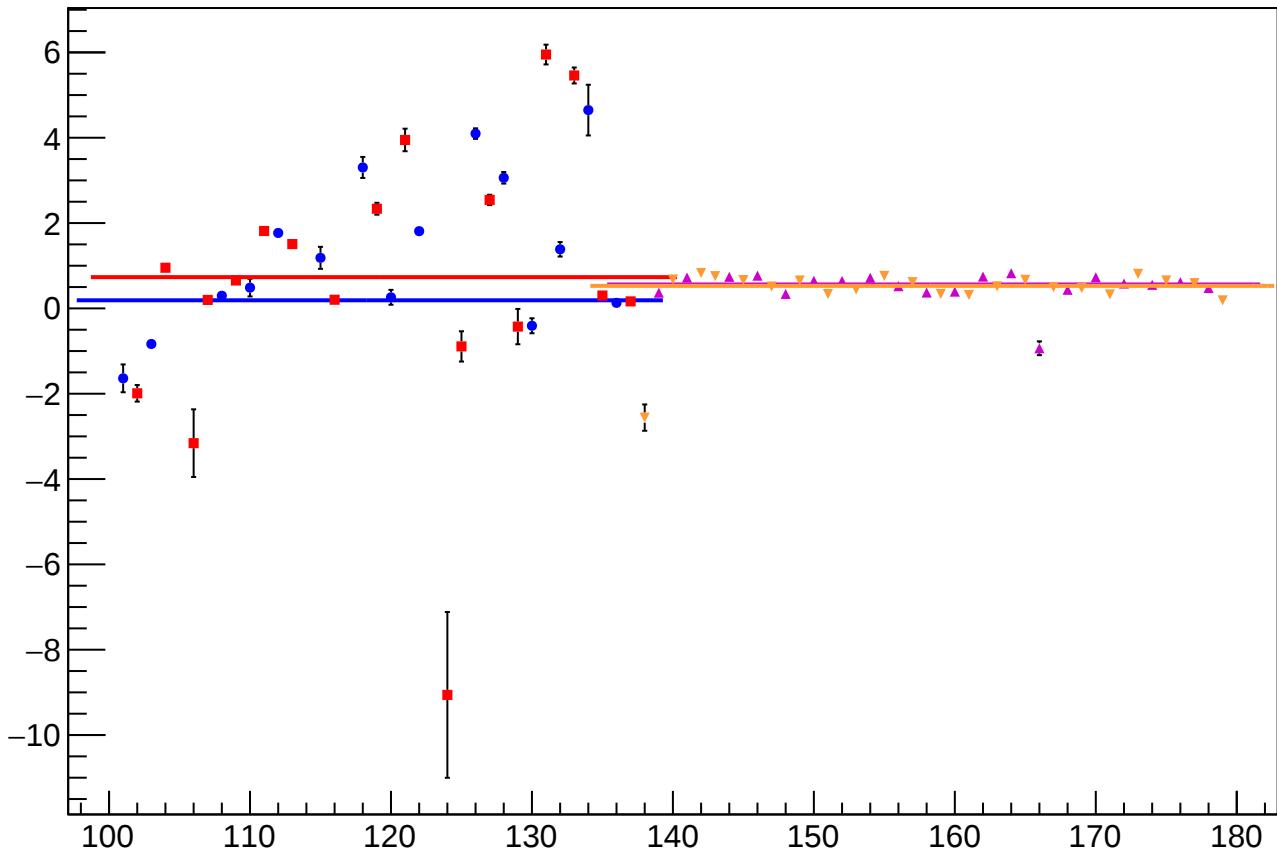
Right:  $-158.264 \pm 0.071$   $\chi^2/\text{NDF}$ : 505360.9/32

In:  $-174.247 \pm 0.071$   $\chi^2/\text{NDF}$ : 354997.6/34

Out:  $-178.081 \pm 0.073$   $\chi^2/\text{NDF}$ : 372406.1/39

All:  $-176.116 \pm 0.051$   $\chi^2/\text{NDF}$ : 728807.4/74

# dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}: 2727.5/14$

Left Out:  $0.528 \pm 0.002$   $\chi^2/\text{NDF}: 8337.0/21$

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}: 2666.9/17$

Left In:  $0.561 \pm 0.002$   $\chi^2/\text{NDF}: 5373.2/19$

Left:  $0.545 \pm 0.001$   $\chi^2/\text{NDF}: 13840.6/41$

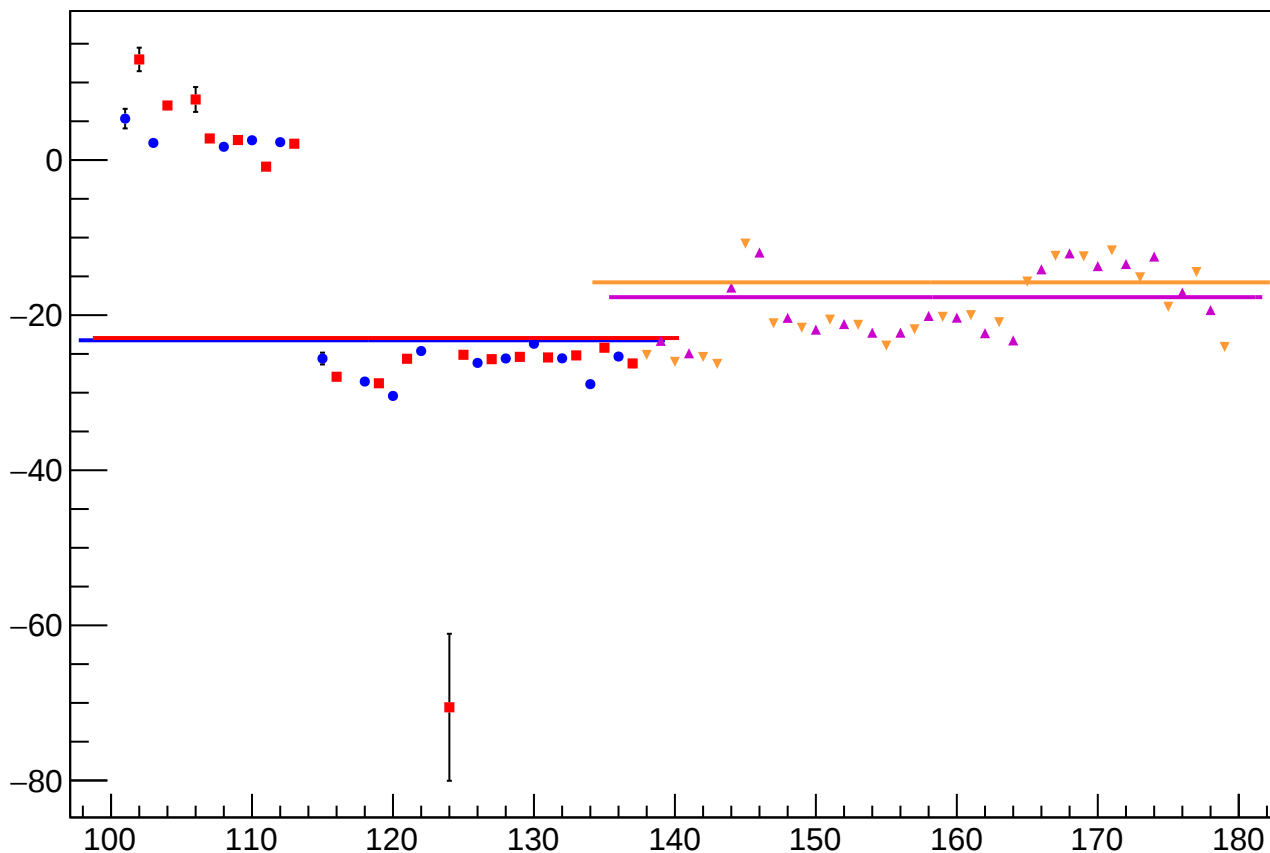
Right:  $0.276 \pm 0.008$   $\chi^2/\text{NDF}: 6029.4/32$

In:  $0.542 \pm 0.002$   $\chi^2/\text{NDF}: 9864.3/34$

Out:  $0.530 \pm 0.002$   $\chi^2/\text{NDF}: 11110.3/39$

All:  $0.537 \pm 0.001$   $\chi^2/\text{NDF}: 20992.9/74$

# dit\_sam4\_4aY\_slope vs Slug, Sign Corrected



Right In: -23.241 $\pm$ 0.025  $\chi^2$ /NDF: 103102.8/14

Left Out: -15.771 $\pm$ 0.011  $\chi^2$ /NDF: 184136.5/21

Right Out: -22.951 $\pm$ 0.025  $\chi^2$ /NDF: 108039.1/17

Left In: -17.681 $\pm$ 0.012  $\chi^2$ /NDF: 120236.2/19

Left: -16.692 $\pm$ 0.008  $\chi^2$ /NDF: 317865.9/41

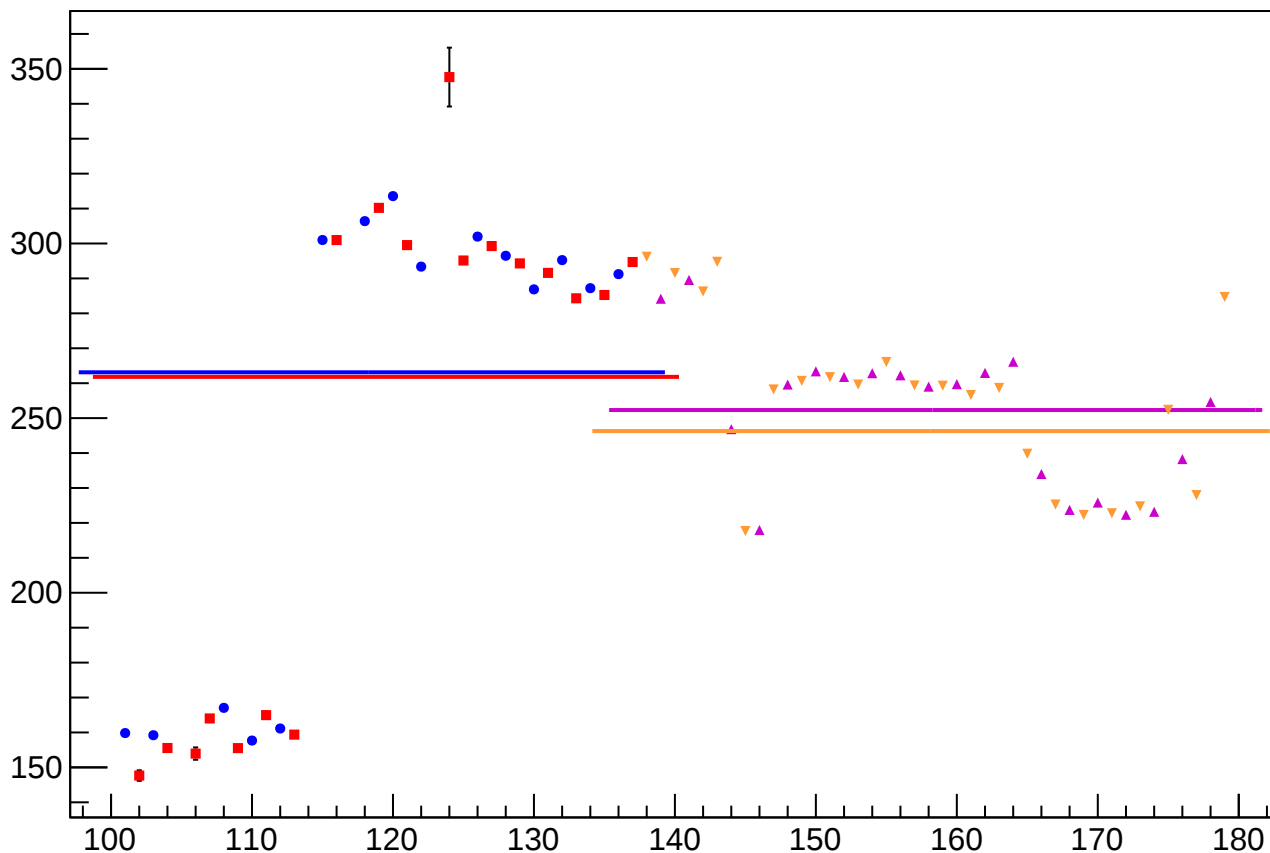
Right: -23.095 $\pm$ 0.017  $\chi^2$ /NDF: 211210.7/32

In: -18.713 $\pm$ 0.011  $\chi^2$ /NDF: 264390.6/34

Out: -17.037 $\pm$ 0.010  $\chi^2$ /NDF: 361835.4/39

All: -17.851 $\pm$ 0.007  $\chi^2$ /NDF: 638926.2/74

# dit\_sam4\_4eY\_slope vs Slug, Sign Corrected



Right In:  $263.120 \pm 0.069$   $\chi^2/\text{NDF}$ : 692885.4/14

Left Out:  $246.296 \pm 0.028$   $\chi^2/\text{NDF}$ : 684632.8/21

Right Out:  $261.814 \pm 0.060$   $\chi^2/\text{NDF}$ : 1006189.6/17

Left In:  $252.315 \pm 0.029$   $\chi^2/\text{NDF}$ : 356940.6/19

Left:  $249.288 \pm 0.020$   $\chi^2/\text{NDF}$ : 1063821.6/41

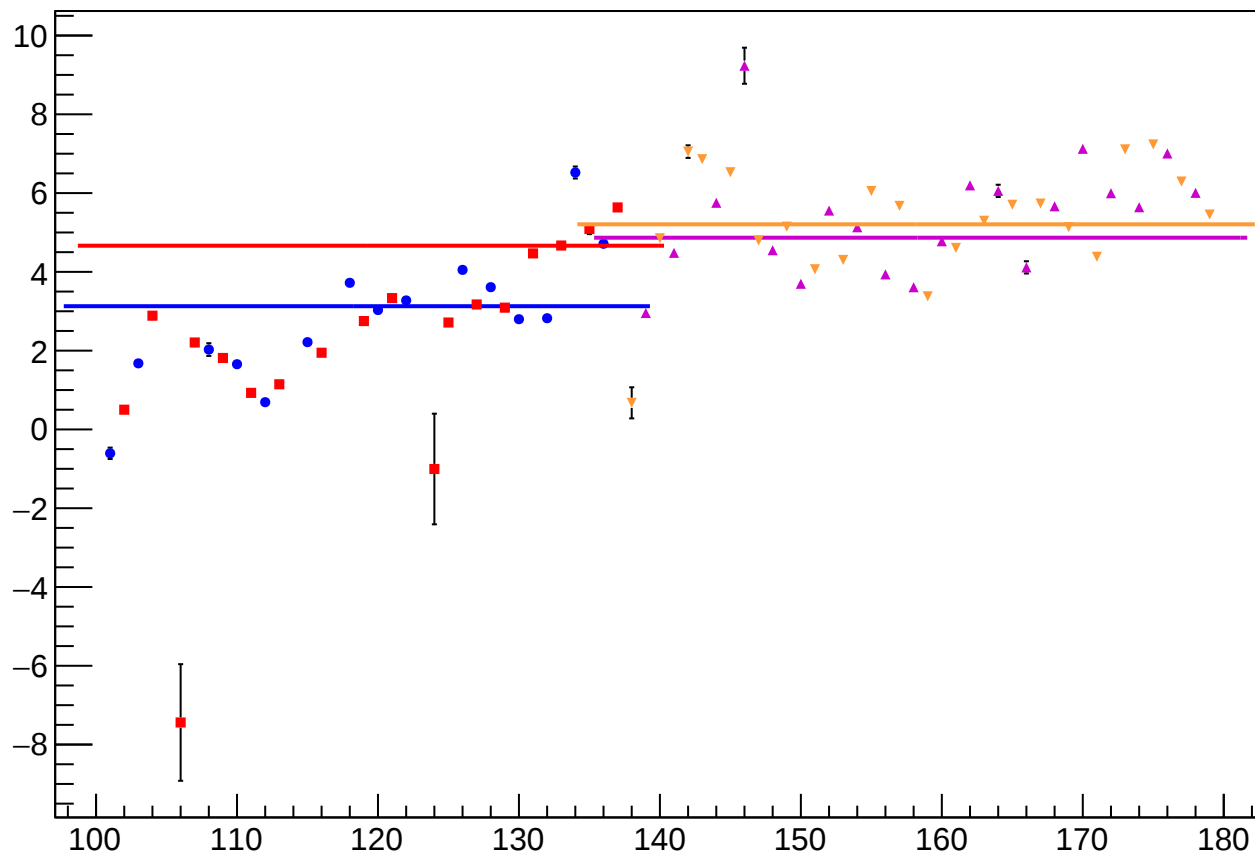
Right:  $262.381 \pm 0.045$   $\chi^2/\text{NDF}$ : 1699277.6/32

In:  $253.899 \pm 0.026$   $\chi^2/\text{NDF}$ : 1070709.5/34

Out:  $249.111 \pm 0.026$   $\chi^2/\text{NDF}$ : 1744786.7/39

All:  $251.441 \pm 0.018$   $\chi^2/\text{NDF}$ : 2832325.4/74

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $5.207 \pm 0.014$   $\chi^2/\text{NDF}: 4423.8/21$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

Left In:  $4.867 \pm 0.013$   $\chi^2/\text{NDF}: 10022.7/19$

Left:  $5.026 \pm 0.010$   $\chi^2/\text{NDF}: 14760.4/41$

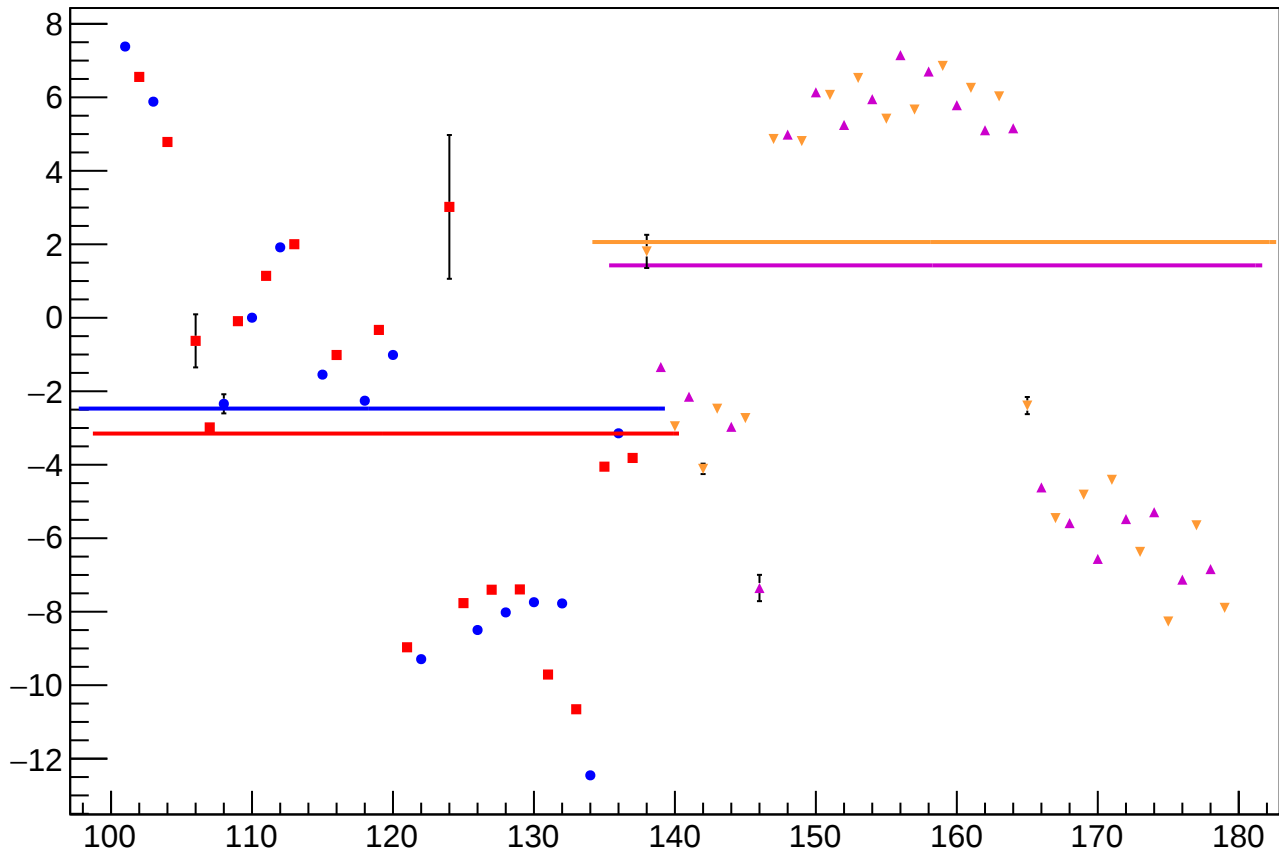
Right:  $4.450 \pm 0.006$   $\chi^2/\text{NDF}: 80704.7/32$

In:  $4.155 \pm 0.010$   $\chi^2/\text{NDF}: 22878.6/34$

Out:  $4.757 \pm 0.006$   $\chi^2/\text{NDF}: 72534.4/39$

All:  $4.608 \pm 0.005$   $\chi^2/\text{NDF}: 98096.6/74$

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}$ : 242579.9/14

Left Out:  $2.062 \pm 0.012$   $\chi^2/\text{NDF}$ : 193378.6/21

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}$ : 247427.7/17

Left In:  $1.426 \pm 0.011$   $\chi^2/\text{NDF}$ : 221784.7/19

Left:  $1.737 \pm 0.008$   $\chi^2/\text{NDF}$ : 416667.7/41

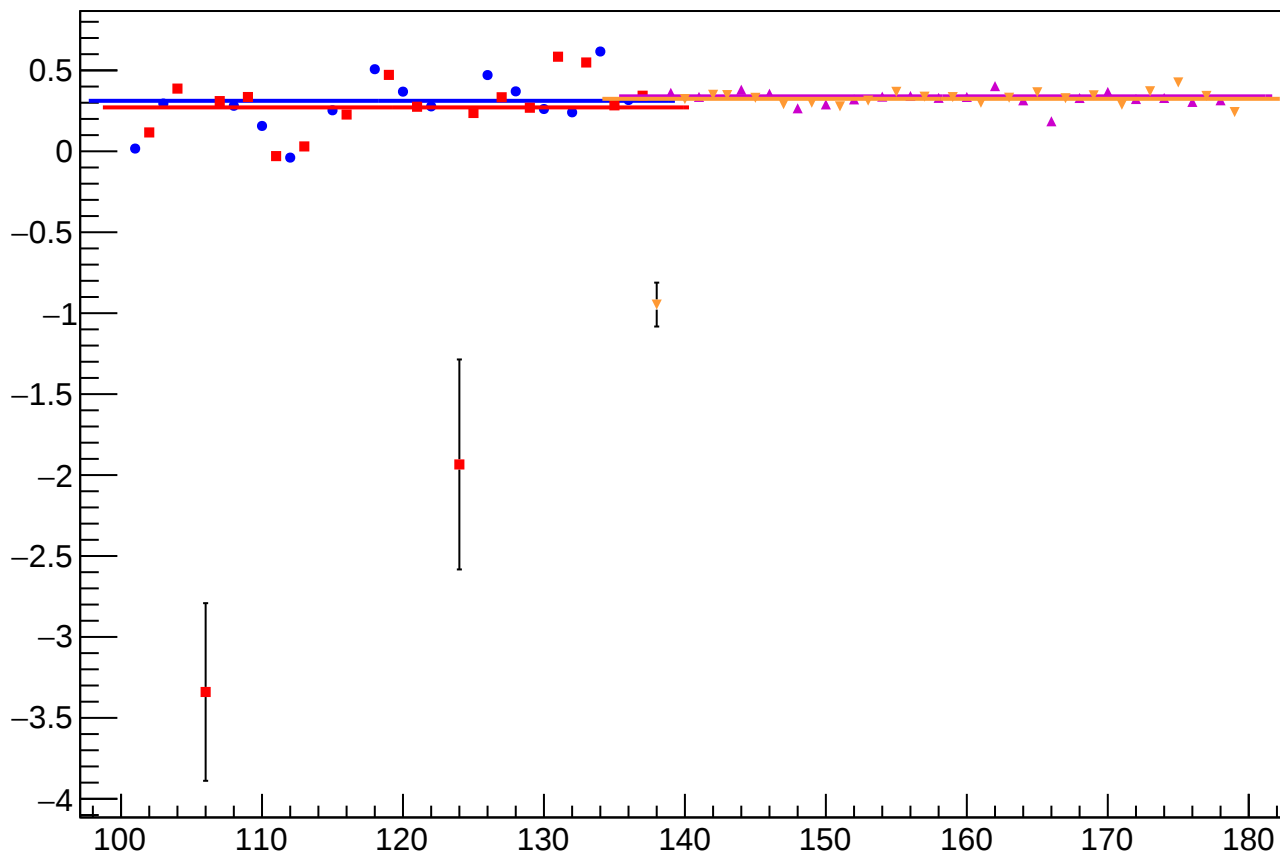
Right:  $-3.003 \pm 0.007$   $\chi^2/\text{NDF}$ : 491827.6/32

In:  $-0.121 \pm 0.009$   $\chi^2/\text{NDF}$ : 510396.9/34

Out:  $-1.656 \pm 0.006$   $\chi^2/\text{NDF}$ : 581824.4/39

All:  $-1.145 \pm 0.005$   $\chi^2/\text{NDF}$ : 1112127.5/74

dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}: 1319.2/14$

Left Out:  $0.324 \pm 0.001$   $\chi^2/\text{NDF}: 2698.9/21$

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}: 6144.7/17$

Left In:  $0.340 \pm 0.001$   $\chi^2/\text{NDF}: 3377.6/19$

Left:  $0.332 \pm 0.000$   $\chi^2/\text{NDF}: 6439.2/41$

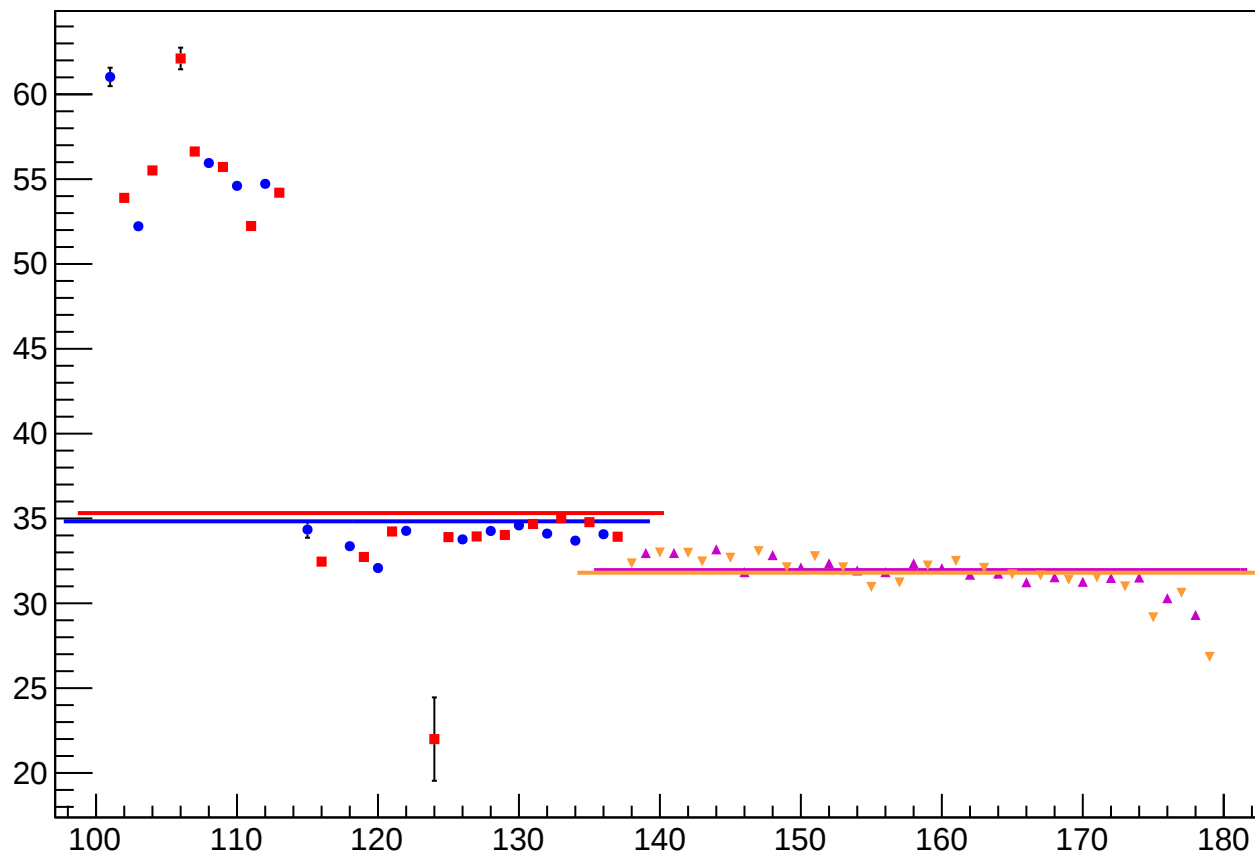
Right:  $0.301 \pm 0.001$   $\chi^2/\text{NDF}: 7735.2/32$

In:  $0.335 \pm 0.001$   $\chi^2/\text{NDF}: 5089.1/34$

Out:  $0.320 \pm 0.001$   $\chi^2/\text{NDF}: 9429.3/39$

All:  $0.329 \pm 0.000$   $\chi^2/\text{NDF}: 14898.5/74$

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 34.832 $\pm$ 0.009     $\chi^2$ /NDF: 245568.8/14

Left Out: 31.803 $\pm$ 0.003     $\chi^2$ /NDF: 47132.8/21

Right Out: 35.319 $\pm$ 0.010     $\chi^2$ /NDF: 261492.0/17

Left In: 31.957 $\pm$ 0.004     $\chi^2$ /NDF: 16674.2/19

Left: 31.871 $\pm$ 0.002     $\chi^2$ /NDF: 64798.1/41

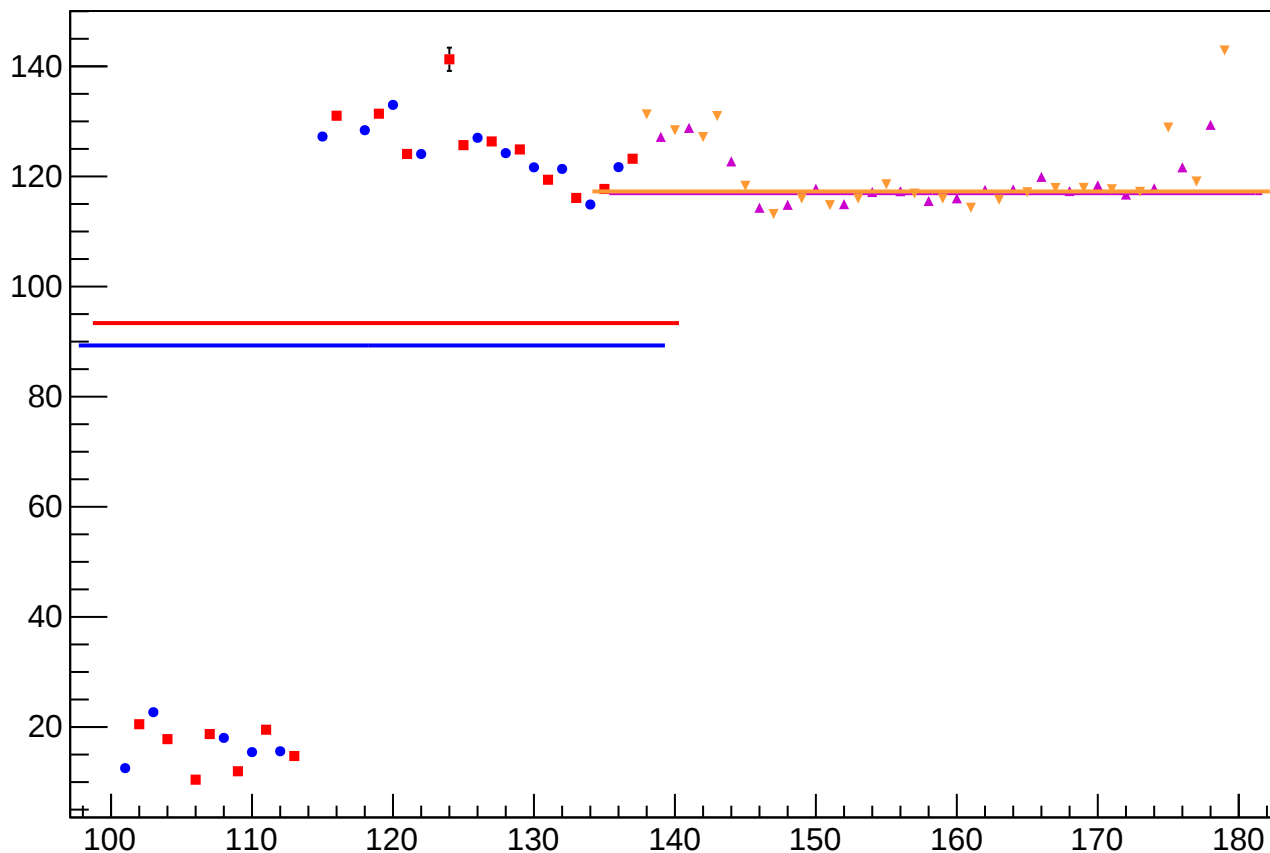
Right: 35.041 $\pm$ 0.007     $\chi^2$ /NDF: 508429.6/32

In: 32.398 $\pm$ 0.003     $\chi^2$ /NDF: 356358.5/34

Out: 32.141 $\pm$ 0.003     $\chi^2$ /NDF: 421429.8/39

All: 32.258 $\pm$ 0.002     $\chi^2$ /NDF: 780955.1/74

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In:  $89.302 \pm 0.027$   $\chi^2/\text{NDF}: 3034485.1/14$

Left Out:  $117.276 \pm 0.008$   $\chi^2/\text{NDF}: 146519.8/21$

Right Out:  $93.367 \pm 0.030$   $\chi^2/\text{NDF}: 2852493.6/17$

Left In:  $116.965 \pm 0.009$   $\chi^2/\text{NDF}: 45780.2/19$

Left:  $117.135 \pm 0.006$   $\chi^2/\text{NDF}: 192983.6/41$

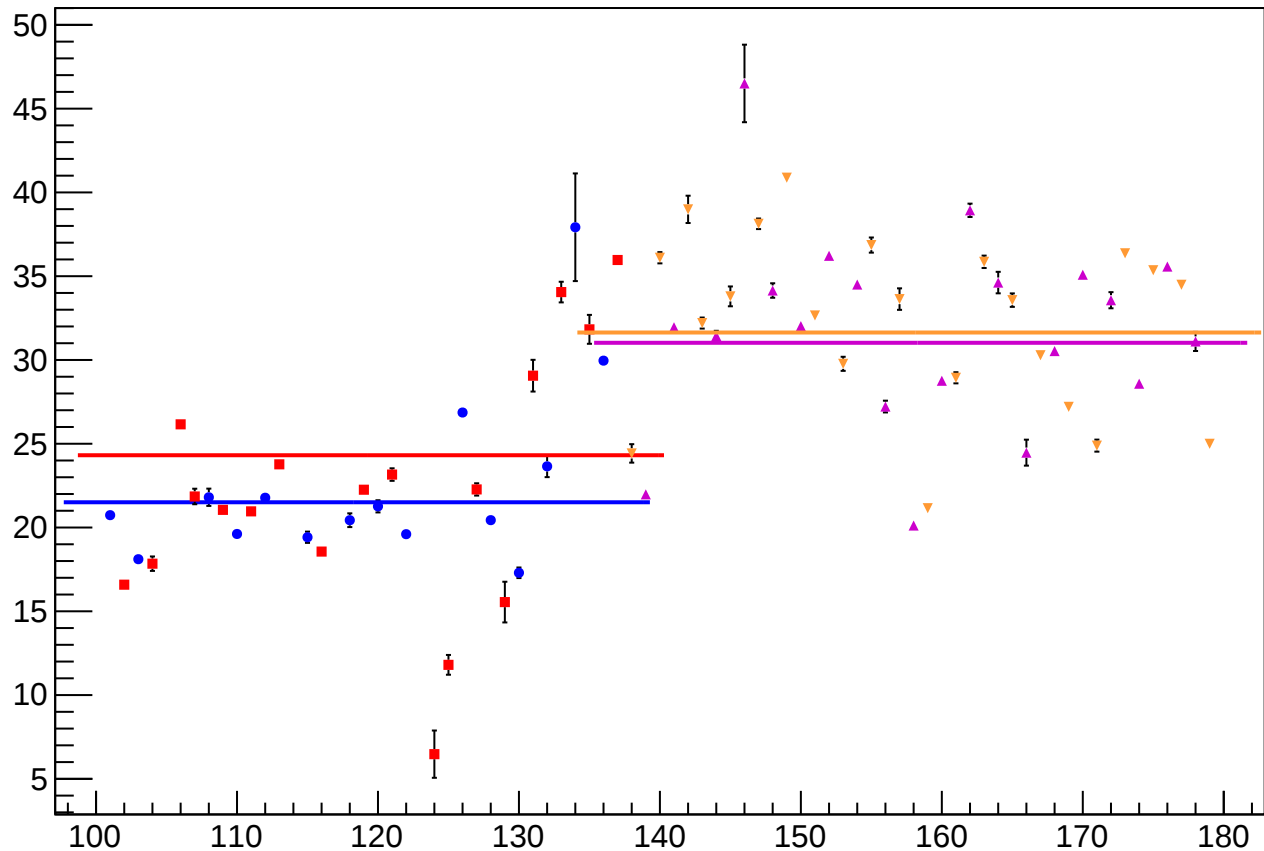
Right:  $91.158 \pm 0.020$   $\chi^2/\text{NDF}: 5896996.6/32$

In:  $114.383 \pm 0.008$   $\chi^2/\text{NDF}: 4001867.7/34$

Out:  $115.682 \pm 0.008$   $\chi^2/\text{NDF}: 3594126.4/39$

All:  $115.085 \pm 0.006$   $\chi^2/\text{NDF}: 7608975.9/74$

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In: 21.507 $\pm$ 0.072     $\chi^2/\text{NDF}$ : 2963.0/14

Left Out: 31.639 $\pm$ 0.067     $\chi^2/\text{NDF}$ : 6068.5/21

Right Out: 24.314 $\pm$ 0.058     $\chi^2/\text{NDF}$ : 14295.4/17

Left In: 31.025 $\pm$ 0.063     $\chi^2/\text{NDF}$ : 5896.2/19

Left: 31.310 $\pm$ 0.046     $\chi^2/\text{NDF}$ : 12009.4/41

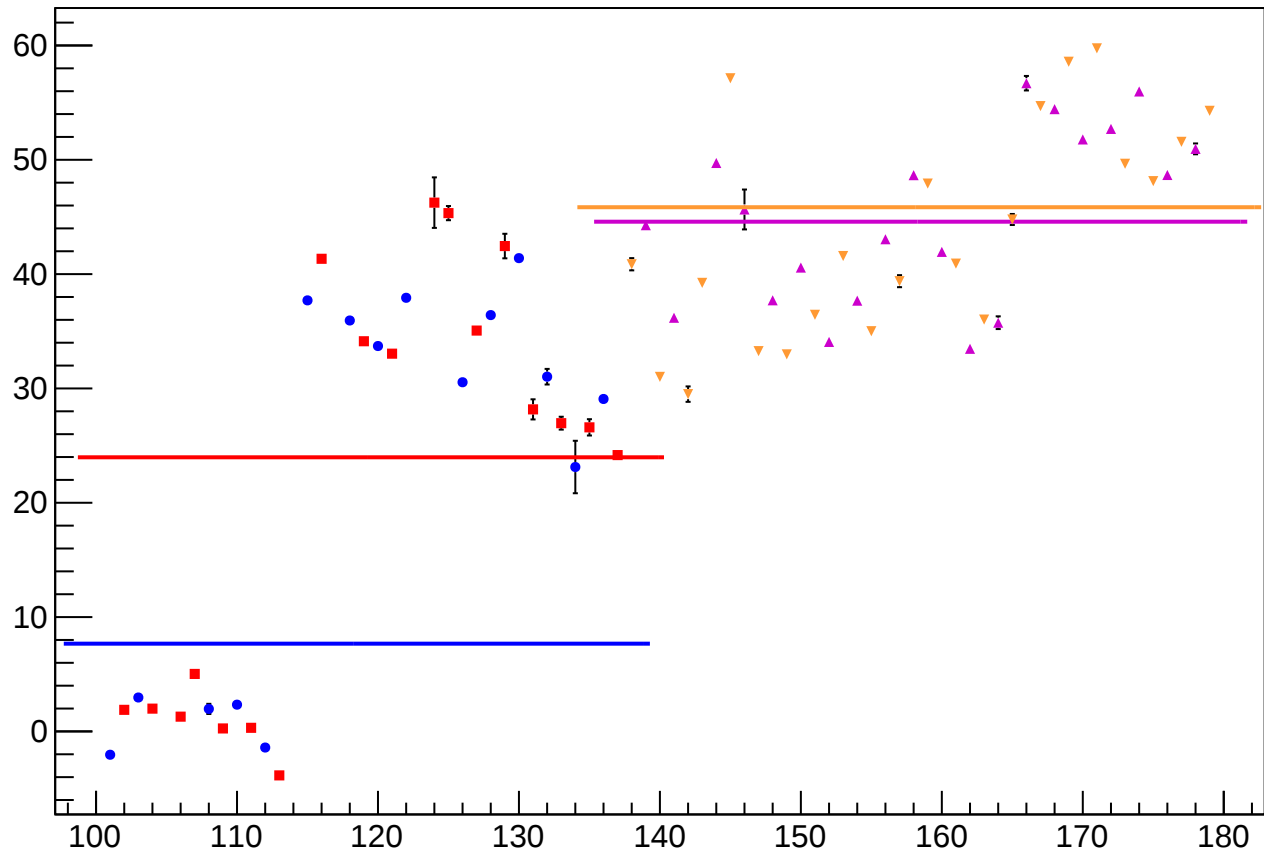
Right: 23.204 $\pm$ 0.045     $\chi^2/\text{NDF}$ : 18169.2/32

In: 26.952 $\pm$ 0.047     $\chi^2/\text{NDF}$ : 18767.5/34

Out: 27.469 $\pm$ 0.044     $\chi^2/\text{NDF}$ : 27124.6/39

All: 27.229 $\pm$ 0.032     $\chi^2/\text{NDF}$ : 45956.1/74

# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}: 96442.5/14$

Left Out:  $45.851 \pm 0.056$   $\chi^2/\text{NDF}: 24903.9/21$

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}: 110564.0/17$

Left In:  $44.585 \pm 0.053$   $\chi^2/\text{NDF}: 16666.3/19$

Left:  $45.187 \pm 0.039$   $\chi^2/\text{NDF}: 41839.8/41$

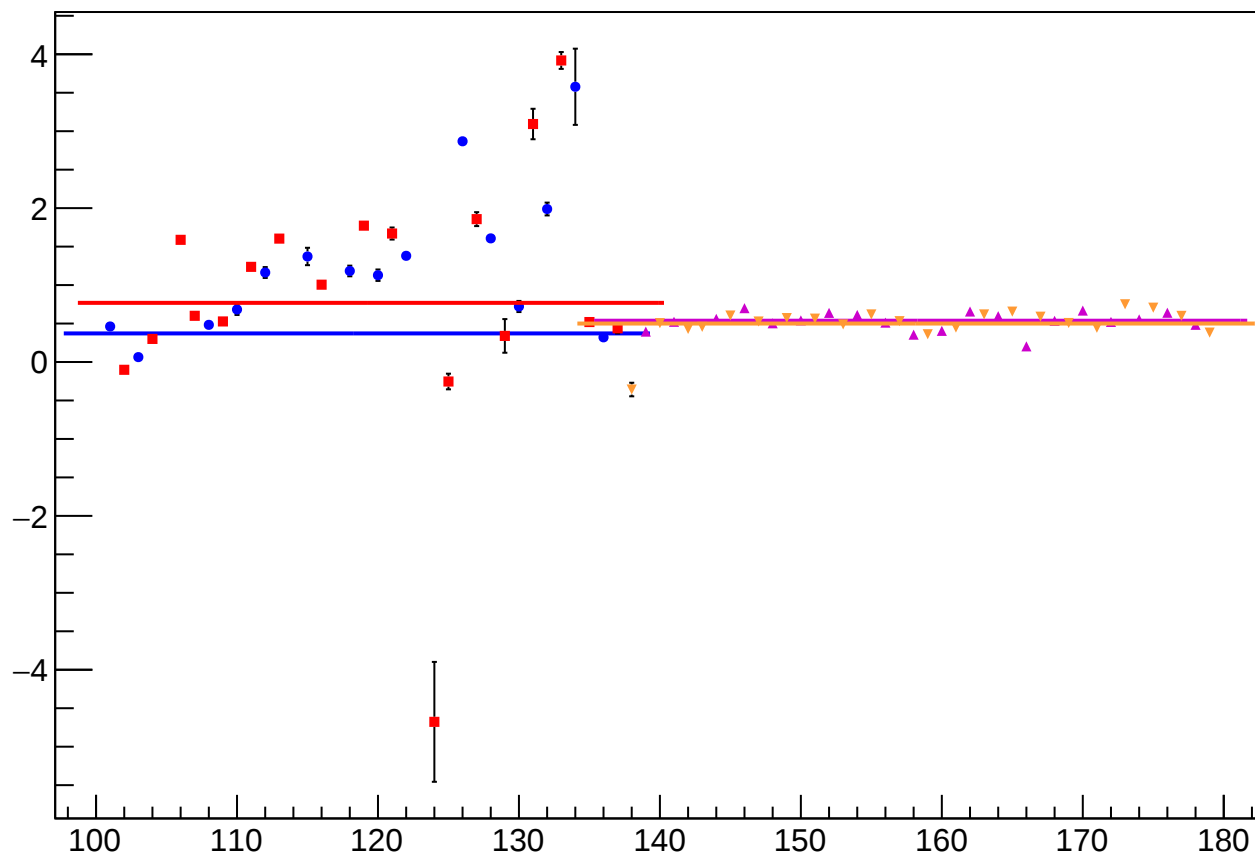
Right:  $23.461 \pm 0.008$   $\chi^2/\text{NDF}: 332774.6/32$

In:  $23.178 \pm 0.034$   $\chi^2/\text{NDF}: 392750.8/34$

Out:  $24.437 \pm 0.008$   $\chi^2/\text{NDF}: 285644.8/39$

All:  $24.371 \pm 0.008$   $\chi^2/\text{NDF}: 679661.3/74$

dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}: 4748.7/14$

Left Out:  $0.500 \pm 0.001$   $\chi^2/\text{NDF}: 15043.3/21$

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}: 4137.5/17$

Left In:  $0.537 \pm 0.001$   $\chi^2/\text{NDF}: 12309.1/19$

Left:  $0.519 \pm 0.001$   $\chi^2/\text{NDF}: 28069.5/41$

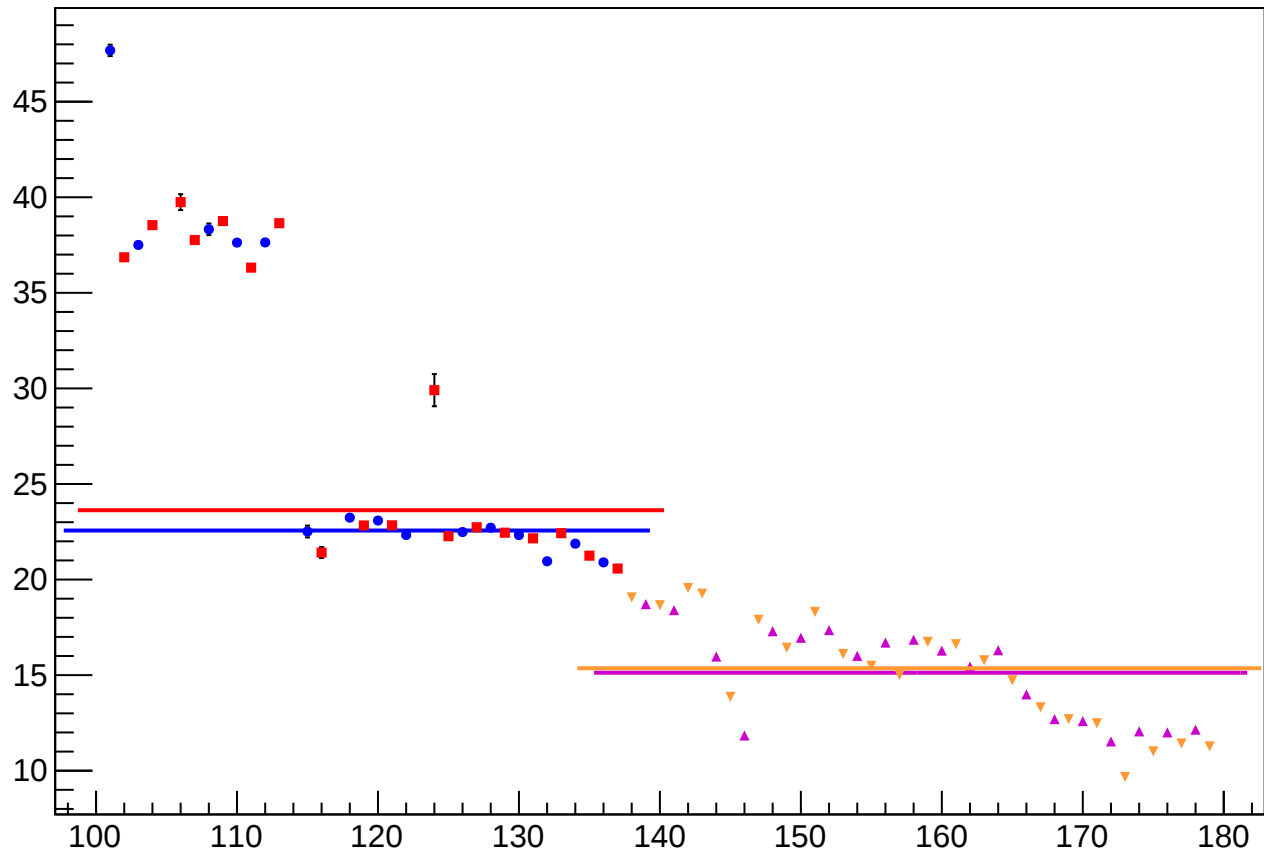
Right:  $0.484 \pm 0.004$   $\chi^2/\text{NDF}: 11237.9/32$

In:  $0.529 \pm 0.001$   $\chi^2/\text{NDF}: 18425.6/34$

Out:  $0.505 \pm 0.001$   $\chi^2/\text{NDF}: 20654.5/39$

All:  $0.518 \pm 0.001$   $\chi^2/\text{NDF}: 39393.4/74$

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 22.565 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 92859.1/14

Left Out: 15.359 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 224805.7/21

Right Out: 23.627 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 123194.1/17

Left In: 15.126 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 137393.0/19

Left: 15.252 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 362963.8/41

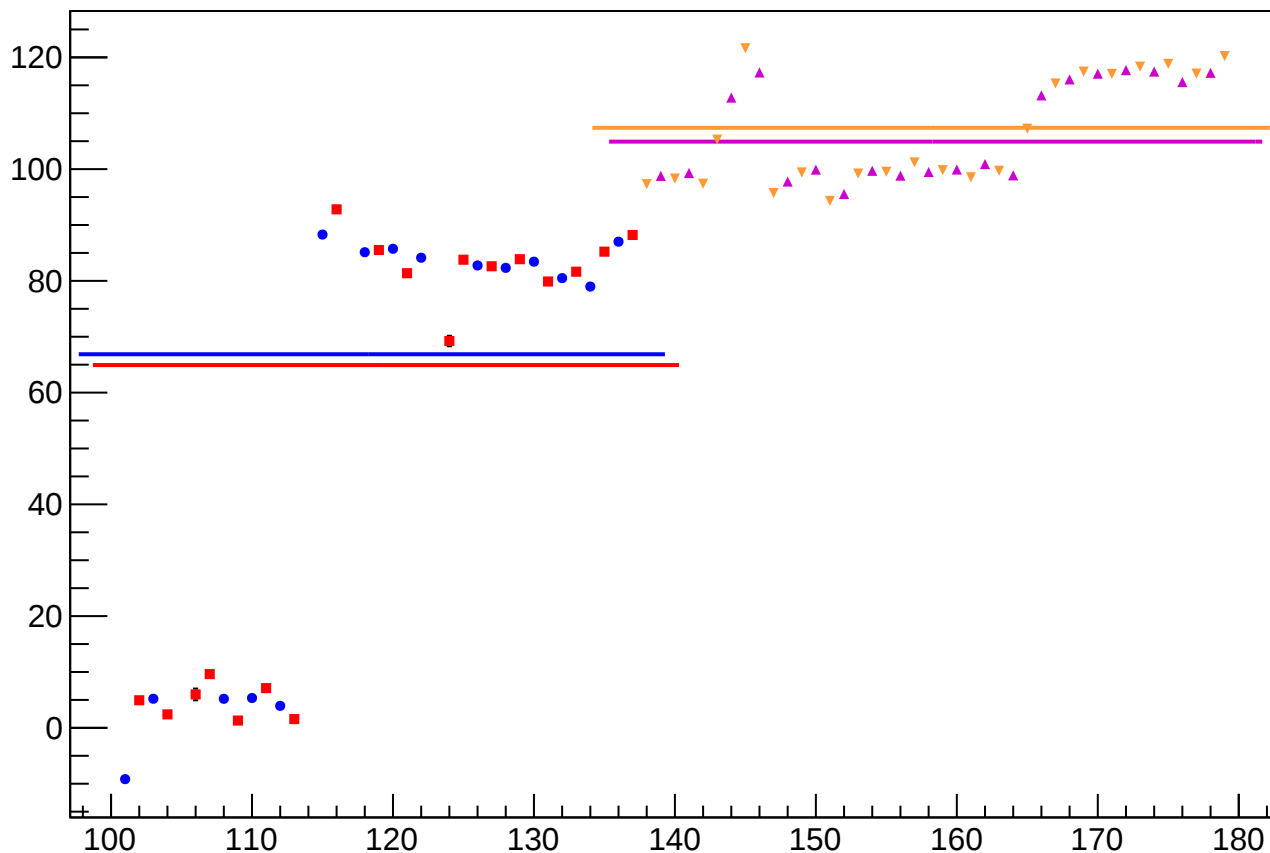
Right: 23.044 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 220970.6/32

In: 17.140 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 620142.4/34

Out: 17.067 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 778674.5/39

All: 17.102 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 1398915.5/74

# dit\_sam6\_4eY\_slope vs Slug, Sign Corrected



Right In: 66.866+/-0.027  $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out: 107.399+/-0.010  $\chi^2/\text{NDF}$ : 867914.3/21

Right Out: 64.929+/-0.030  $\chi^2/\text{NDF}$ : 1334580.7/17

Left In: 104.919+/-0.011  $\chi^2/\text{NDF}$ : 579513.6/19

Left: 106.241+/-0.007  $\chi^2/\text{NDF}$ : 1475309.0/41

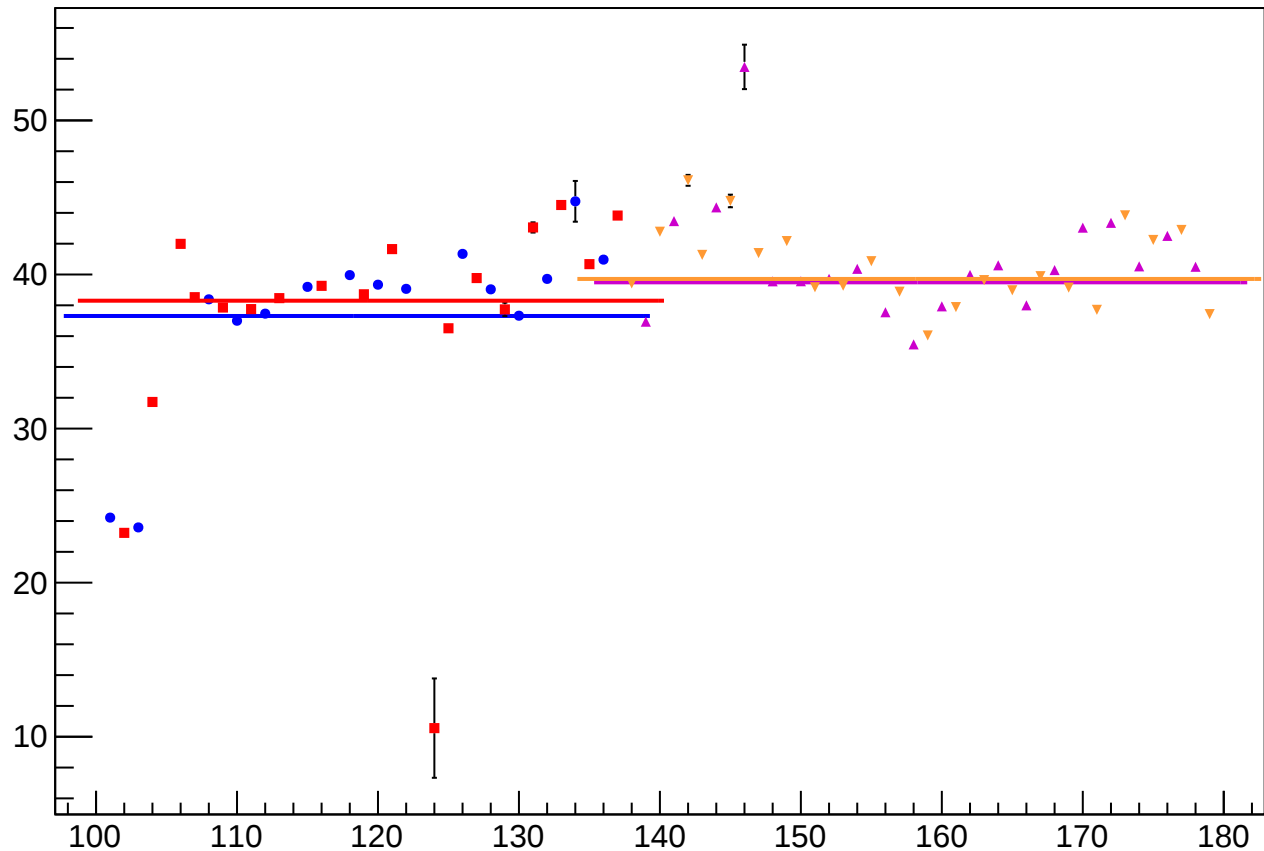
Right: 65.988+/-0.020  $\chi^2/\text{NDF}$ : 2831116.5/32

In: 99.653+/-0.010  $\chi^2/\text{NDF}$ : 3777567.6/34

Out: 102.965+/-0.010  $\chi^2/\text{NDF}$ : 4030411.3/39

All: 101.387+/-0.007  $\chi^2/\text{NDF}$ : 7864630.2/74

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $39.712 \pm 0.028$   $\chi^2/\text{NDF}: 6522.3/21$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

Left In:  $39.491 \pm 0.025$   $\chi^2/\text{NDF}: 8358.9/19$

Left:  $39.585 \pm 0.019$   $\chi^2/\text{NDF}: 14915.6/41$

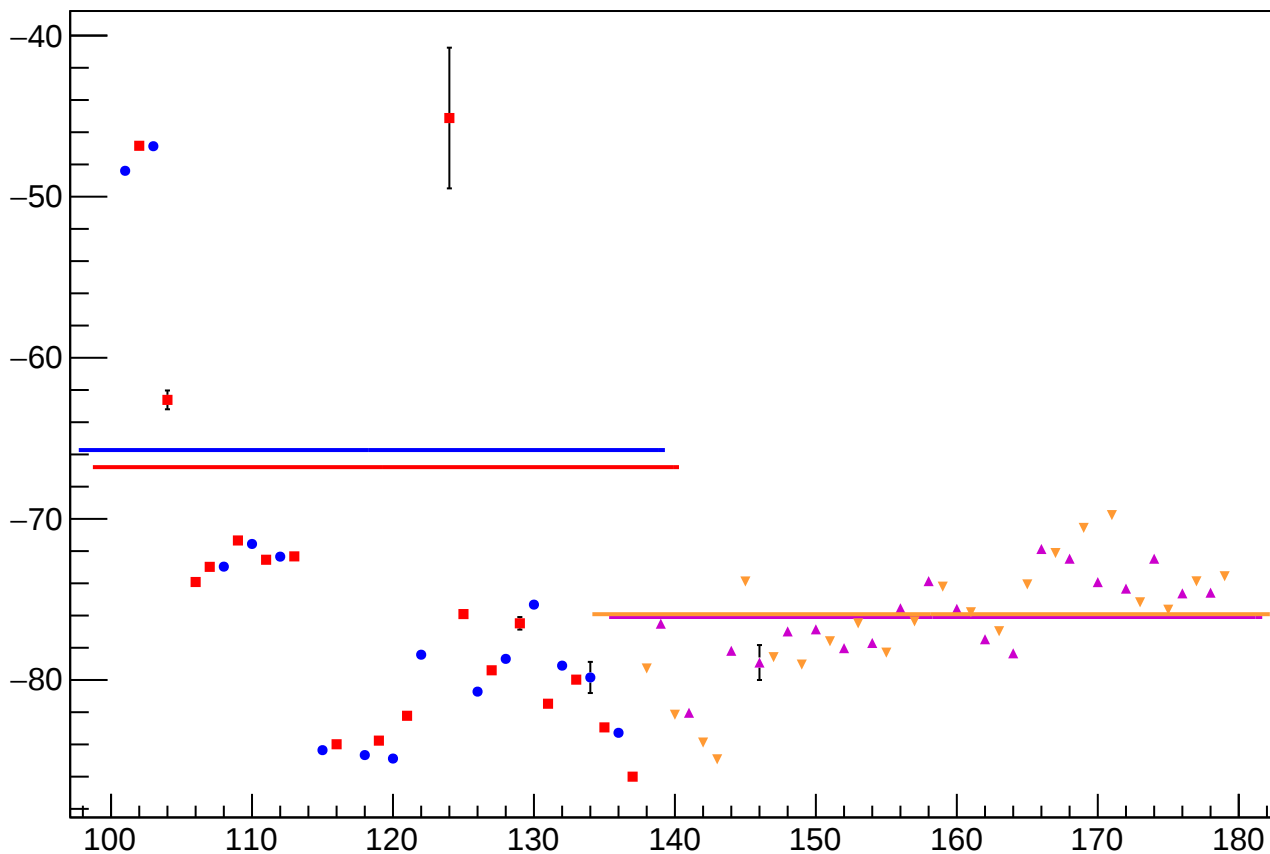
Right:  $37.862 \pm 0.015$   $\chi^2/\text{NDF}: 79451.9/32$

In:  $38.331 \pm 0.017$   $\chi^2/\text{NDF}: 72134.5/34$

Out:  $38.782 \pm 0.017$   $\chi^2/\text{NDF}: 26980.9/39$

All:  $38.559 \pm 0.012$   $\chi^2/\text{NDF}: 99478.0/74$

# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-75.916 \pm 0.023$   $\chi^2/\text{NDF}: 23359.1/21$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

Left In:  $-76.090 \pm 0.020$   $\chi^2/\text{NDF}: 10307.5/19$

Left:  $-76.015 \pm 0.015$   $\chi^2/\text{NDF}: 33698.8/41$

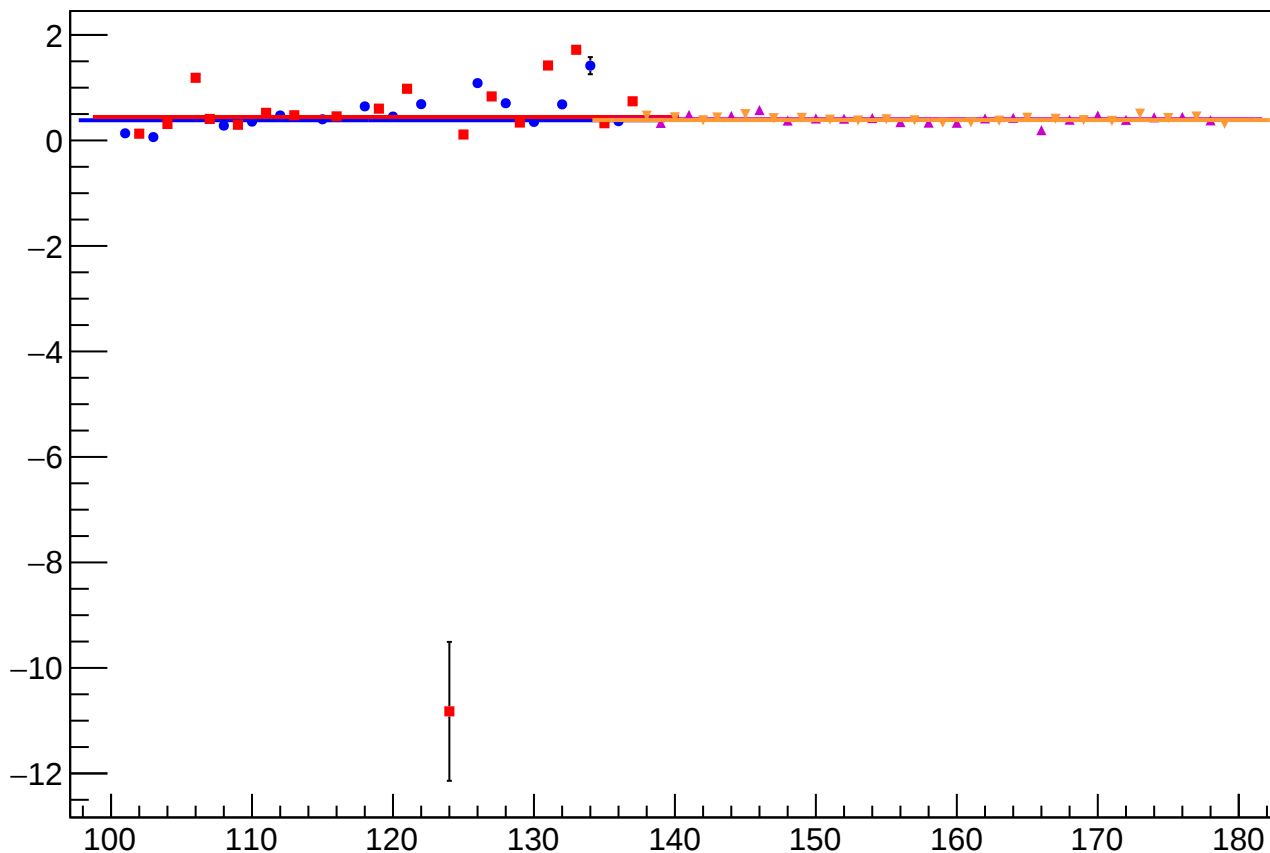
Right:  $-66.292 \pm 0.012$   $\chi^2/\text{NDF}: 1714516.0/32$

In:  $-69.987 \pm 0.013$   $\chi^2/\text{NDF}: 1068833.6/34$

Out:  $-69.690 \pm 0.013$   $\chi^2/\text{NDF}: 938717.8/39$

All:  $-69.840 \pm 0.009$   $\chi^2/\text{NDF}: 2007813.7/74$

dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.386 $\pm$ 0.000  $\chi^2$ /NDF:10097.6/21

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

Left In: 0.402 $\pm$ 0.000  $\chi^2$ /NDF:8416.2/19

Left: 0.394 $\pm$ 0.000  $\chi^2$ /NDF: 19053.0/41

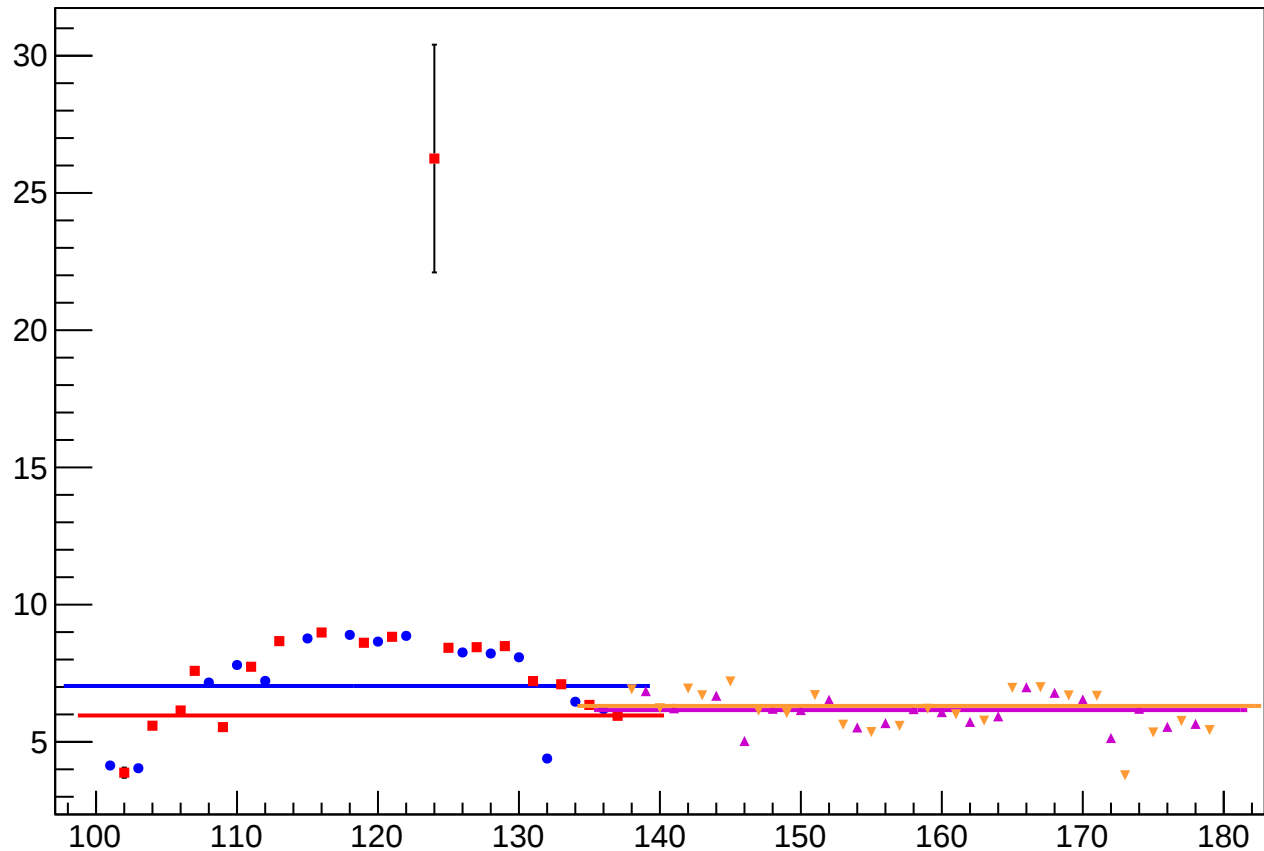
Right: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 11182.8/32

In: 0.401 $\pm$ 0.000  $\chi^2$ /NDF:16686.6/34

Out: 0.387 $\pm$ 0.000  $\chi^2$ /NDF:13130.4/39

All: 0.394 $\pm$ 0.000  $\chi^2$ /NDF: 30236.6/74

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In: 7.036+/-0.005  $\chi^2/\text{NDF}$ : 69905.1/14

Left Out: 6.310+/-0.002  $\chi^2/\text{NDF}$ : 88388.0/21

Right Out: 5.962+/-0.000  $\chi^2/\text{NDF}$ : 168372.8/17

Left In: 6.158+/-0.002  $\chi^2/\text{NDF}$ : 47808.7/19

Left: 6.232+/-0.001  $\chi^2/\text{NDF}$ : 140926.4/41

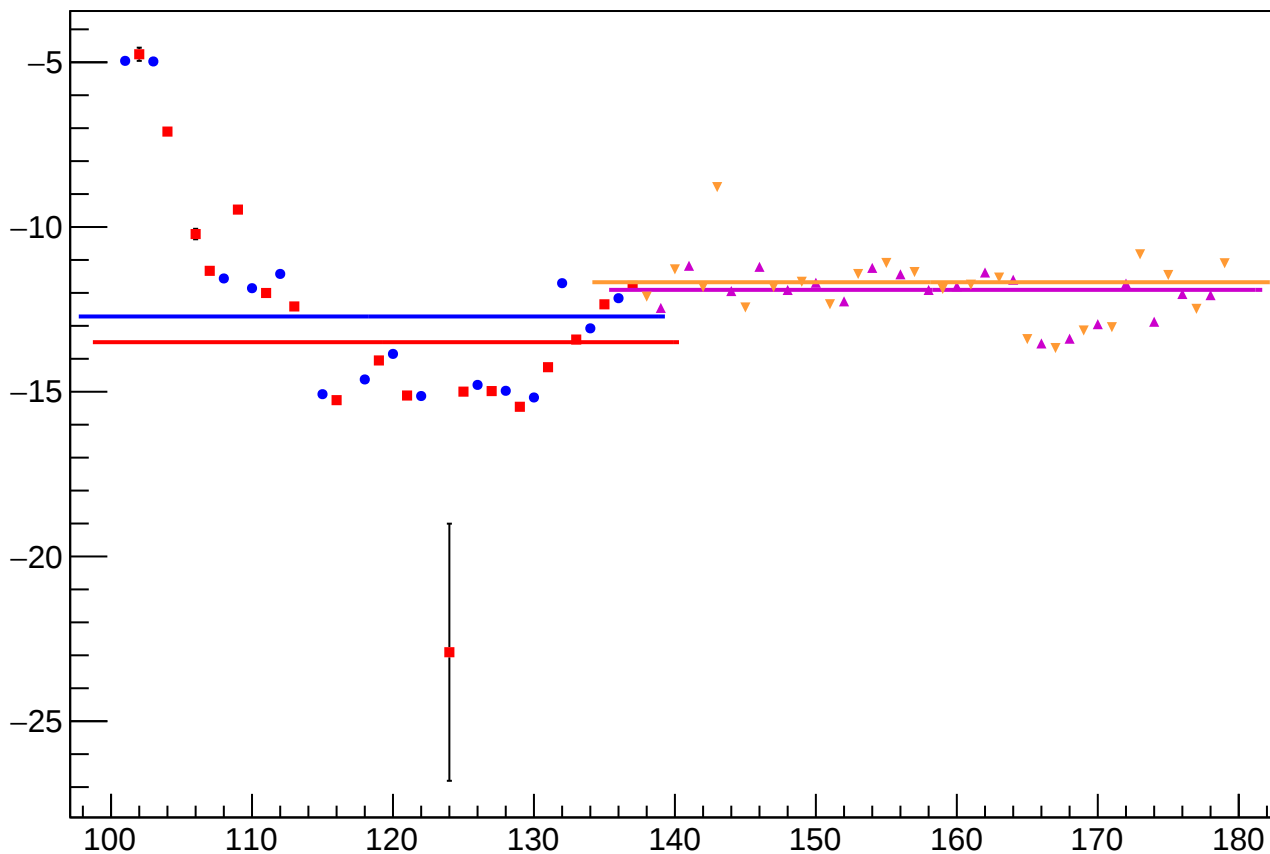
Right: 5.970+/-0.000  $\chi^2/\text{NDF}$ : 294275.6/32

In: 6.249+/-0.001  $\chi^2/\text{NDF}$ : 151522.8/34

Out: 5.983+/-0.000  $\chi^2/\text{NDF}$ : 301695.4/39

All: 6.001+/-0.000  $\chi^2/\text{NDF}$ : 484160.7/74

# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}$ : 85219.4/14

Left Out:  $-11.676 \pm 0.002$   $\chi^2/\text{NDF}$ : 341272.8/21

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}$ : 55753.8/17

Left In:  $-11.908 \pm 0.002$   $\chi^2/\text{NDF}$ : 63502.1/19

Left:  $-11.792 \pm 0.002$   $\chi^2/\text{NDF}$ : 410552.4/41

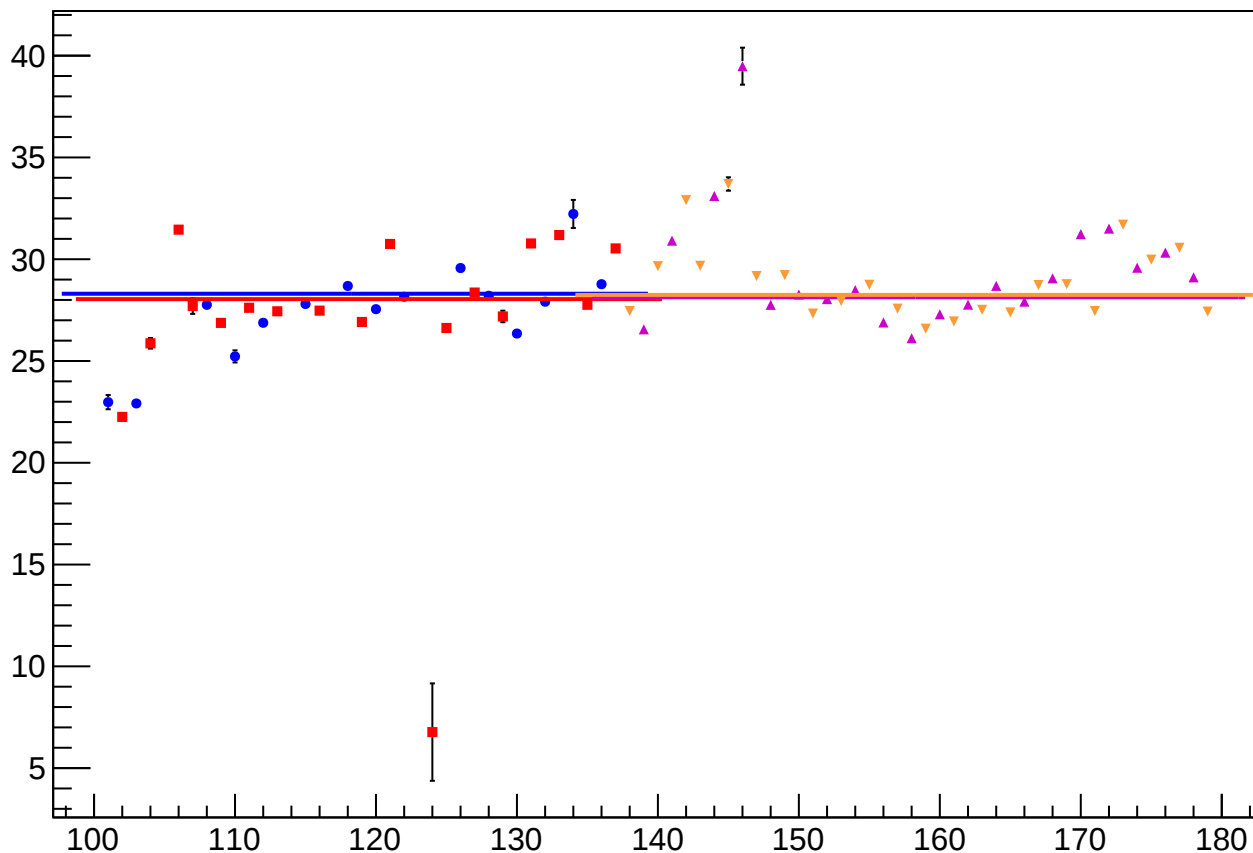
Right:  $-13.142 \pm 0.004$   $\chi^2/\text{NDF}$ : 149153.5/32

In:  $-11.991 \pm 0.002$   $\chi^2/\text{NDF}$ : 163103.8/34

Out:  $-11.895 \pm 0.002$   $\chi^2/\text{NDF}$ : 483268.1/39

All:  $-11.943 \pm 0.001$   $\chi^2/\text{NDF}$ : 647474.9/74

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In:  $28.304 \pm 0.023$   $\chi^2/\text{NDF}: 3400.0/14$

Left Out:  $28.248 \pm 0.018$   $\chi^2/\text{NDF}: 6510.7/21$

Right Out:  $28.040 \pm 0.030$   $\chi^2/\text{NDF}: 2561.5/17$

Left In:  $28.129 \pm 0.015$   $\chi^2/\text{NDF}: 8694.3/19$

Left:  $28.179 \pm 0.012$   $\chi^2/\text{NDF}: 15230.3/41$

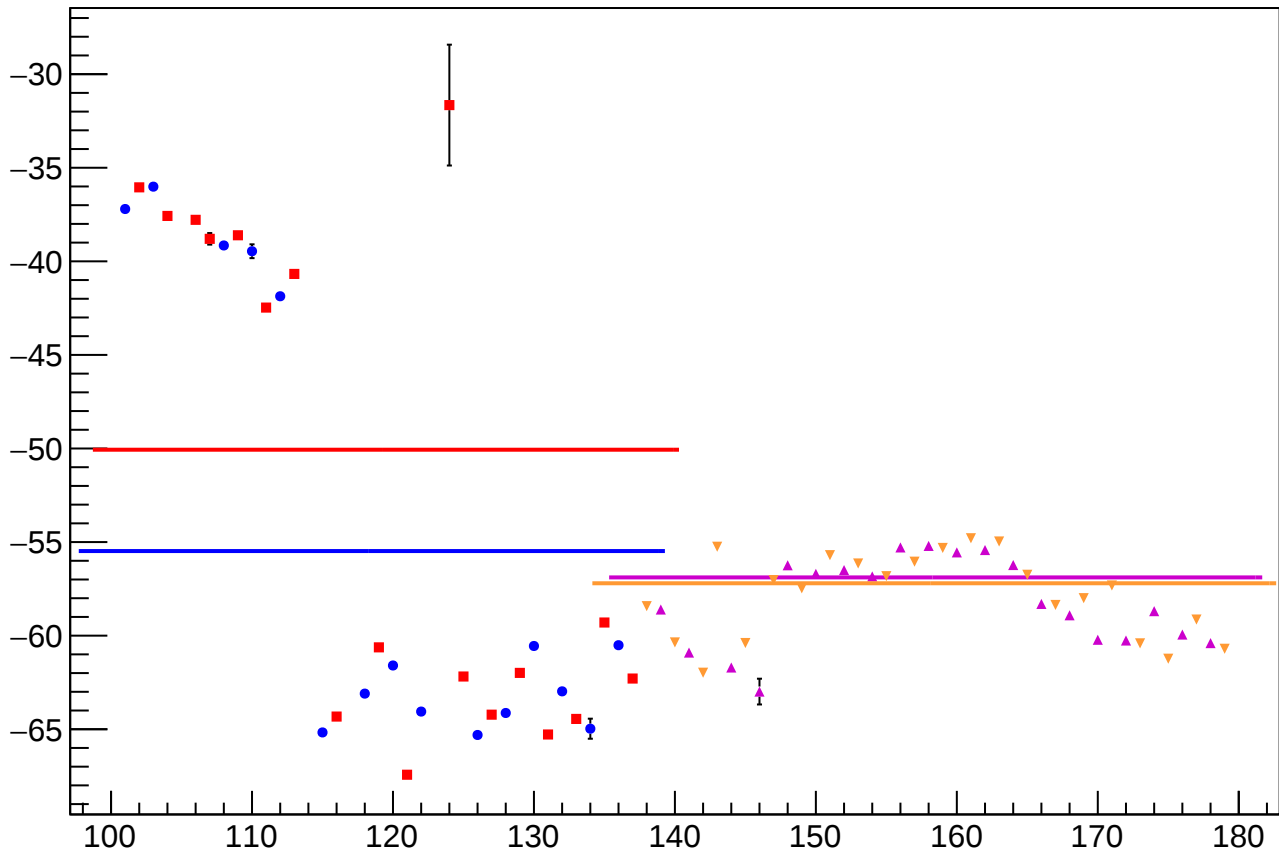
Right:  $28.207 \pm 0.018$   $\chi^2/\text{NDF}: 6009.6/32$

In:  $28.182 \pm 0.013$   $\chi^2/\text{NDF}: 12134.3/34$

Out:  $28.194 \pm 0.015$   $\chi^2/\text{NDF}: 9107.0/39$

All:  $28.187 \pm 0.010$   $\chi^2/\text{NDF}: 21241.6/74$

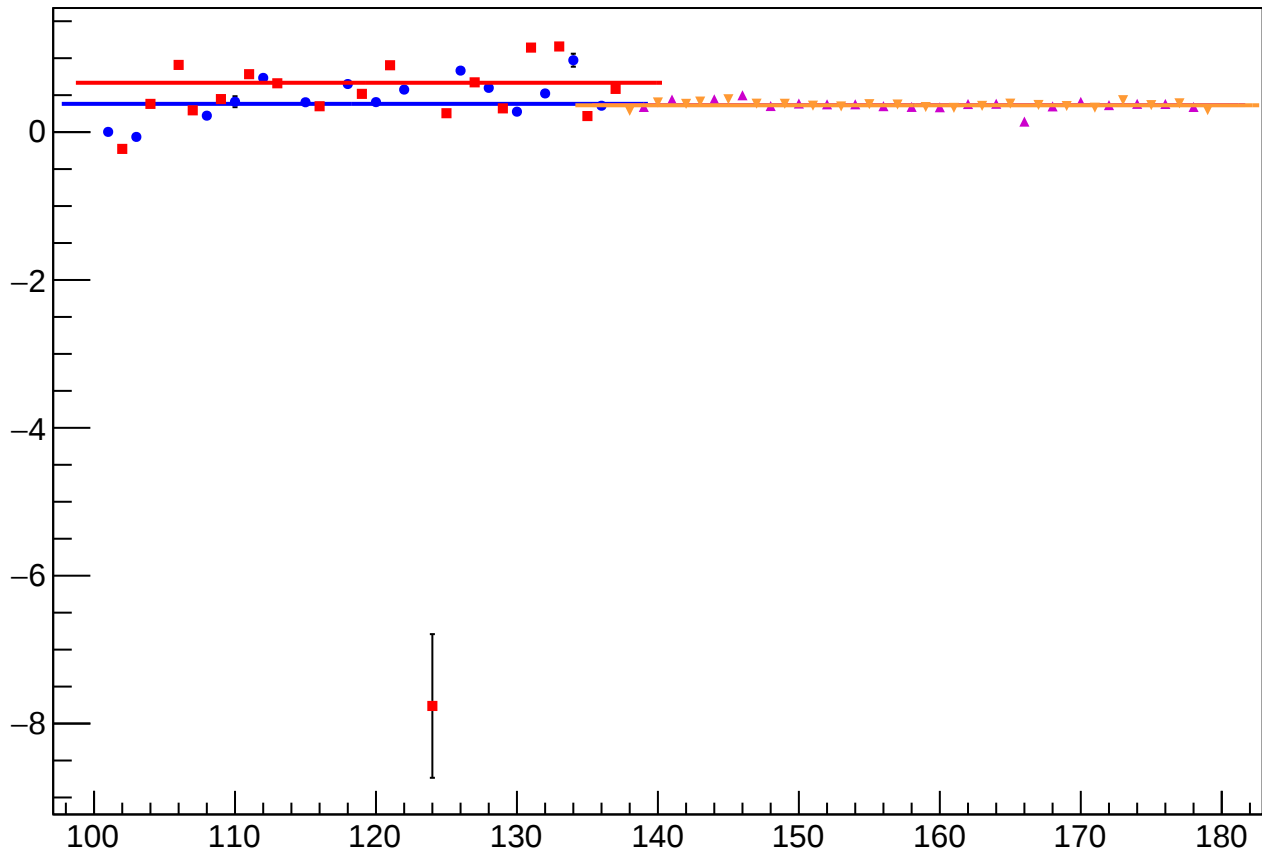
# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}: 595140.3/14$   
 Left Out:  $-57.201 \pm 0.015$   $\chi^2/\text{NDF}: 20470.7/21$   
 Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}: 340098.3/17$   
 Left In:  $-56.888 \pm 0.013$   $\chi^2/\text{NDF}: 16052.9/19$

Left:  $-57.025 \pm 0.010$   $\chi^2/\text{NDF}: 36774.6/41$   
 Right:  $-53.644 \pm 0.013$   $\chi^2/\text{NDF}: 971470.1/32$   
 In:  $-56.347 \pm 0.010$   $\chi^2/\text{NDF}: 615643.5/34$   
 Out:  $-55.124 \pm 0.012$   $\chi^2/\text{NDF}: 428066.9/39$   
 All:  $-55.853 \pm 0.008$   $\chi^2/\text{NDF}: 1049441.3/74$

# dit\_sam8\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}: 4595.8/14$

Left Out:  $0.363 \pm 0.000$   $\chi^2/\text{NDF}: 7941.0/21$

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}: 3704.8/17$

Left In:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}: 5916.0/19$

Left:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}: 13903.3/41$

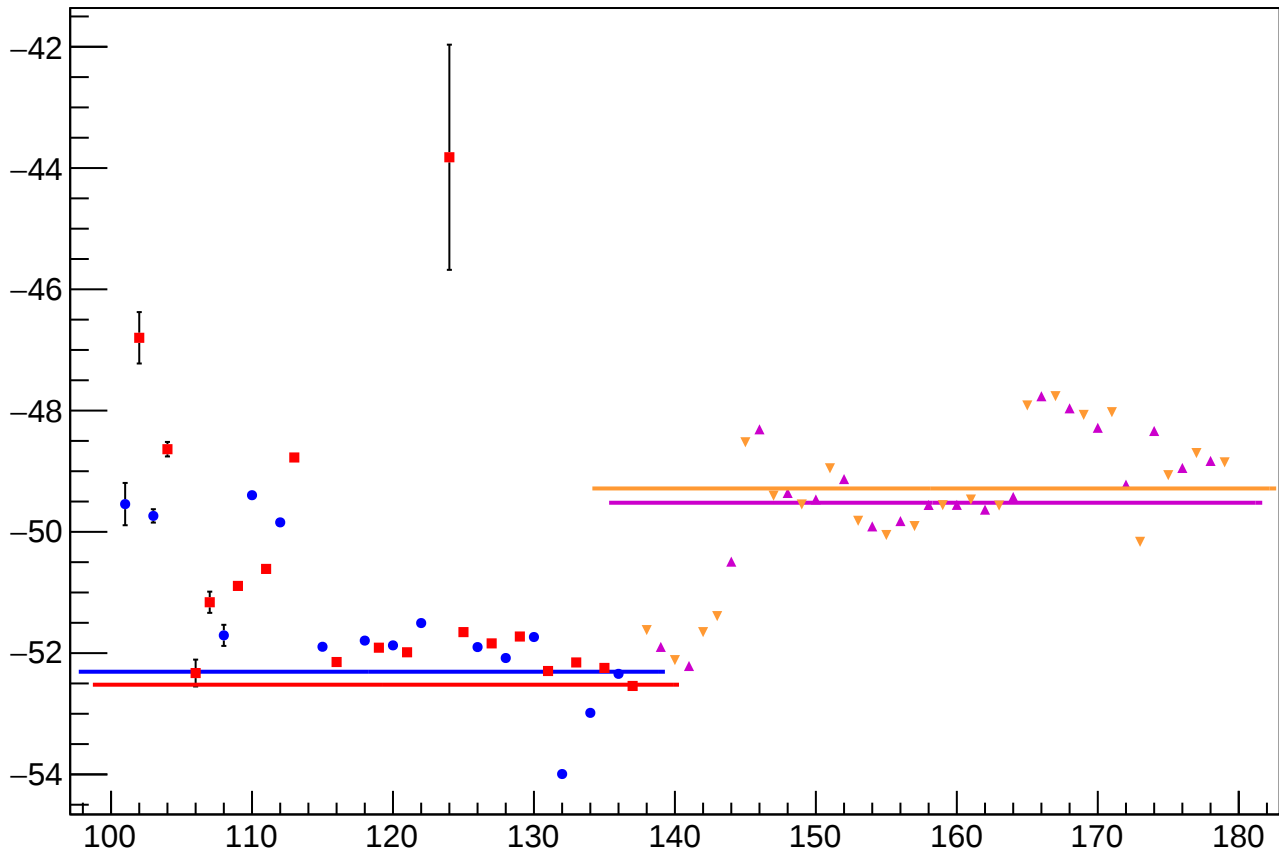
Right:  $0.413 \pm 0.002$   $\chi^2/\text{NDF}: 11721.4/32$

In:  $0.367 \pm 0.000$   $\chi^2/\text{NDF}: 10605.6/34$

Out:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}: 15990.3/39$

All:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}: 26618.4/74$

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}$ : 25427.4/14

Left Out:  $-49.284 \pm 0.001$   $\chi^2/\text{NDF}$ : 509755.5/21

Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}$ : 14961.7/17

Left In:  $-49.520 \pm 0.001$   $\chi^2/\text{NDF}$ : 420765.4/19

Left:  $-49.399 \pm 0.001$   $\chi^2/\text{NDF}$ : 944347.4/41

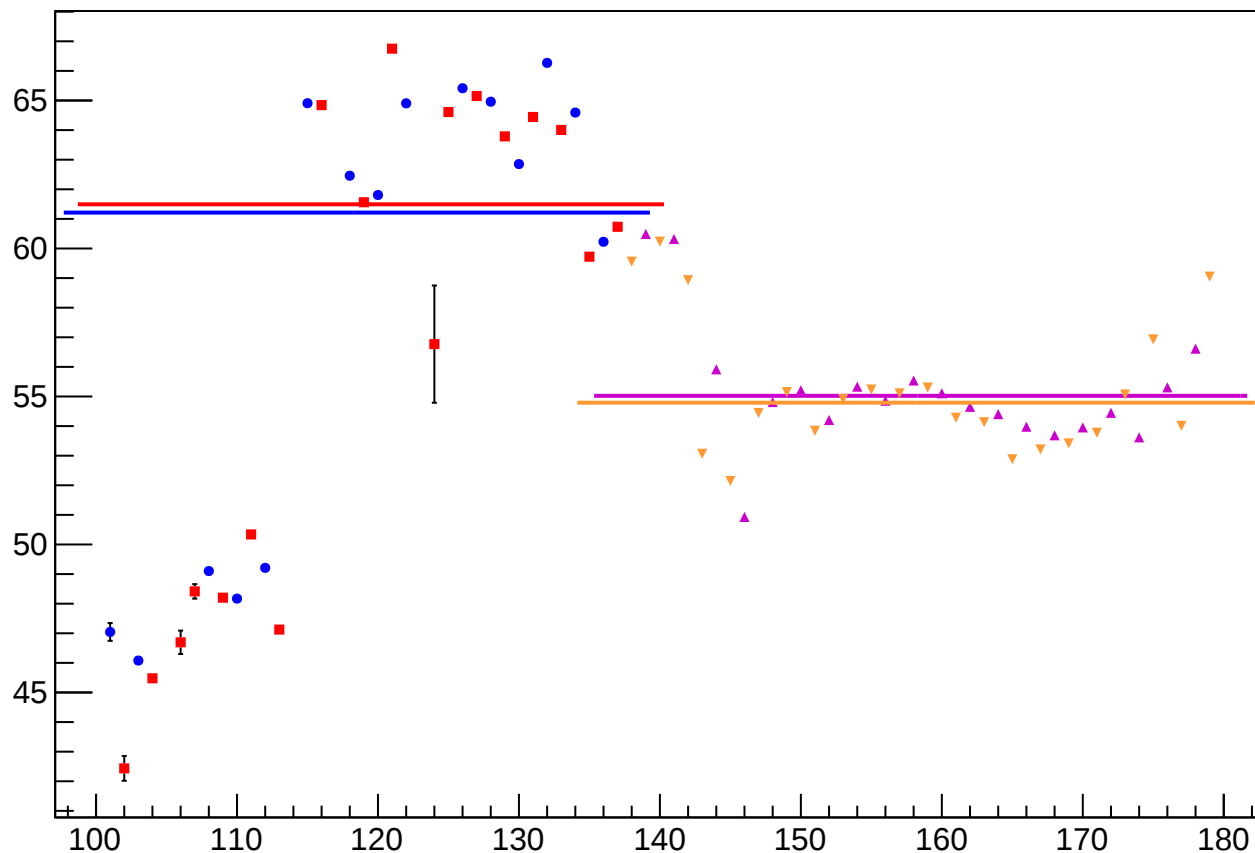
Right:  $-52.505 \pm 0.001$   $\chi^2/\text{NDF}$ : 43203.2/32

In:  $-49.854 \pm 0.001$   $\chi^2/\text{NDF}$ : 900139.7/34

Out:  $-51.282 \pm 0.001$   $\chi^2/\text{NDF}$ : 3820003.0/39

All:  $-50.862 \pm 0.001$   $\chi^2/\text{NDF}$ : 5518340.5/74

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In: 61.213 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 156624.5/14

Left Out: 54.791 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 264132.5/21

Right Out: 61.493 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 243479.8/17

Left In: 55.023 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 81838.8/19

Left: 54.918 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 348890.2/41

Right: 61.405 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 400649.5/32

In: 55.505 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 597010.5/34

Out: 56.019 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 1320706.6/39

All: 55.752 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 1934339.4/74

dit\_4aX\_coil1\_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\_4aX\_coil1\_err\_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\_4aX\_coil1\_Ndata\_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\_4eX\_coil1\_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\_4eX\_coil1\_err\_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\_4eX\_coil1\_Ndata\_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\_11X12X\_coil1\_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\_11X12X\_coil1\_err\_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\_11X12X\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4aY\_coil1\_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\_4aY\_coil1\_err\_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\_4aY\_coil1\_Ndata\_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\_4eY\_coil1\_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\_4eY\_coil1\_err\_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\_4eY\_coil1\_Ndata\_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\_usl\_coil1\_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\_usl\_coil1\_err\_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\_usl\_coil1\_Ndata\_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\_usr\_coil1\_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\_usr\_coil1\_err\_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\_usr\_coil1\_Ndata\_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\_atl1\_coil1\_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\_atl1\_coil1\_err\_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\_atl1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_atl2\_coil1\_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

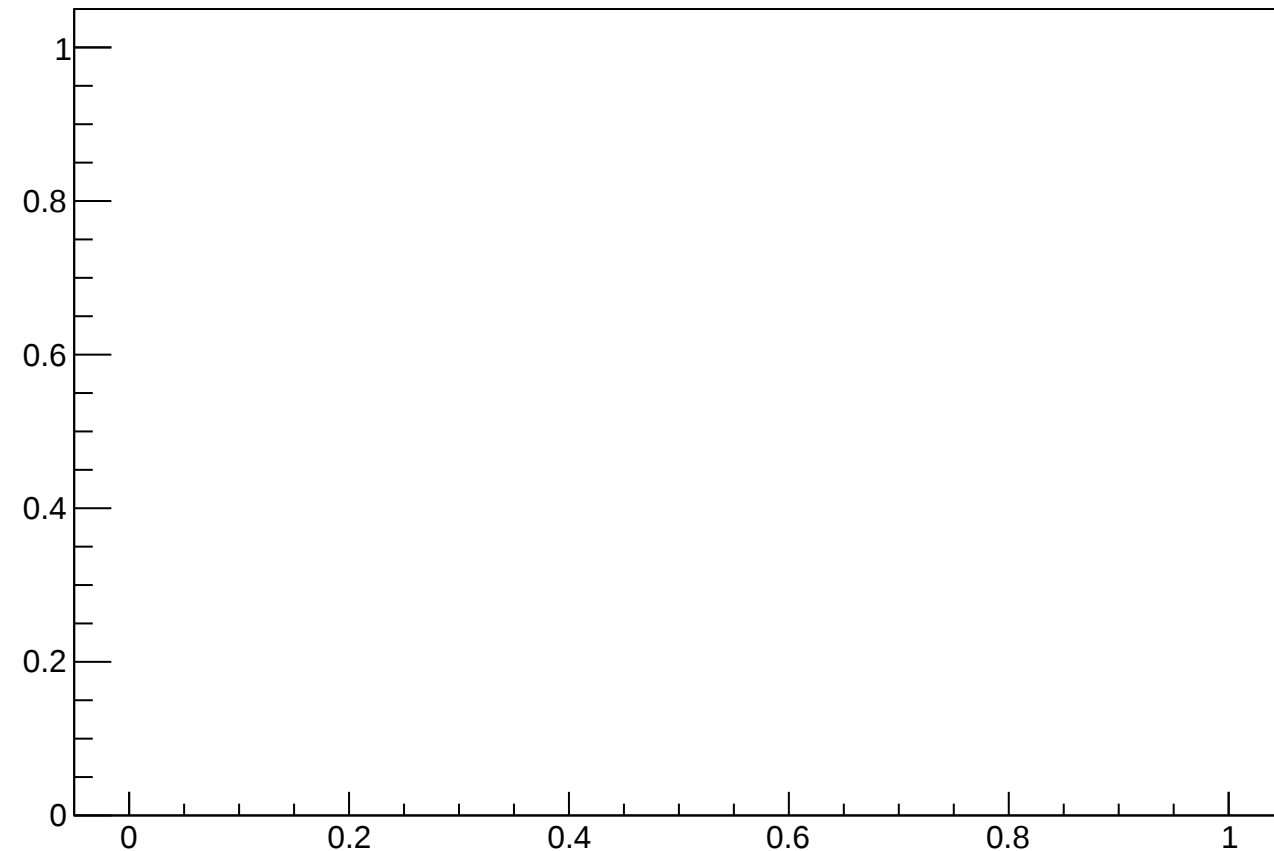
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_atl2\_coil1\_err\_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\_atl2\_coil1\_Ndata\_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\_atr1\_coil1\_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\_atr1\_coil1\_err\_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\_atr1\_coil1\_Ndata\_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\_atr2\_coil1\_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\_atr2\_coil1\_err\_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\_atr2\_coil1\_Ndata\_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\_sam1\_coil1\_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\_sam1\_coil1\_err\_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\_sam1\_coil1\_Ndata\_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\_sam2\_coil1\_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\_sam2\_coil1\_err\_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\_sam2\_coil1\_Ndata\_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\_sam3\_coil1\_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\_sam3\_coil1\_err\_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\_sam3\_coil1\_Ndata\_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\_sam4\_coil1\_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\_sam4\_coil1\_err\_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\_sam4\_coil1\_Ndata\_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\_sam5\_coil1\_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\_sam5\_coil1\_err\_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\_sam5\_coil1\_Ndata\_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\_sam6\_coil1\_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\_sam6\_coil1\_err\_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\_sam6\_coil1\_Ndata\_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\_sam7\_coil1\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam7\_coil1\_err\_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\_sam7\_coil1\_Ndata\_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\_sam8\_coil1\_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\_sam8\_coil1\_err\_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\_sam8\_coil1\_Ndata\_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\_4aX\_coil3\_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\_4aX\_coil3\_err\_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\_4aX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4eX\_coil3\_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\_4eX\_coil3\_err\_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\_4eX\_coil3\_Ndata\_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\_11X12X\_coil3\_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\_11X12X\_coil3\_err\_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\_11X12X\_coil3\_Ndata\_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\_4aY\_coil3\_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\_4aY\_coil3\_err\_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\_4aY\_coil3\_Ndata\_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

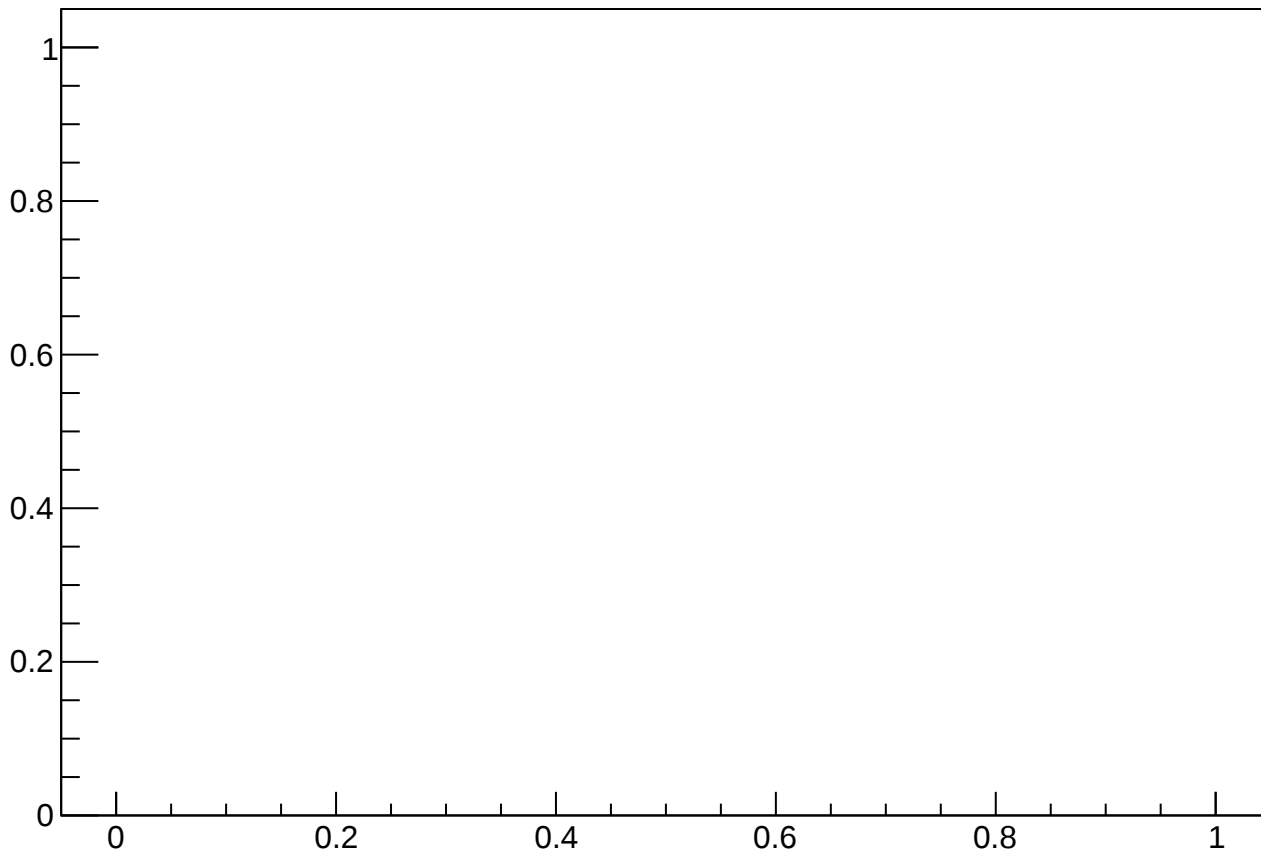
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_4eY\_coil3\_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\_4eY\_coil3\_err\_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\_4eY\_coil3\_Ndata\_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\_usl\_coil3\_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\_usl\_coil3\_err\_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\_usl\_coil3\_Ndata\_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\_usr\_coil3\_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\_usr\_coil3\_err\_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\_usr\_coil3\_Ndata\_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\_atl1\_coil3\_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

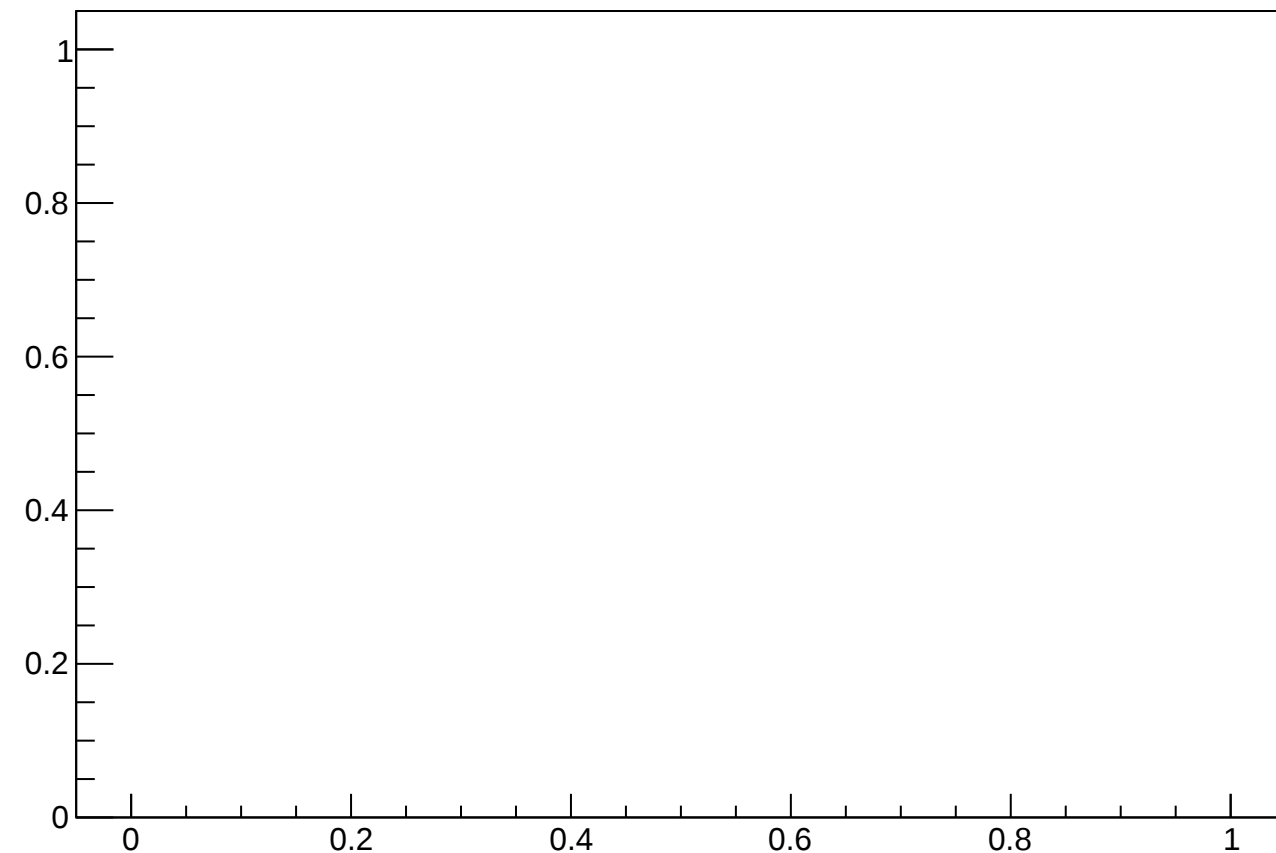
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_atl1\_coil3\_err\_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\_atl1\_coil3\_Ndata\_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\_atl2\_coil3\_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\_atl2\_coil3\_err\_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

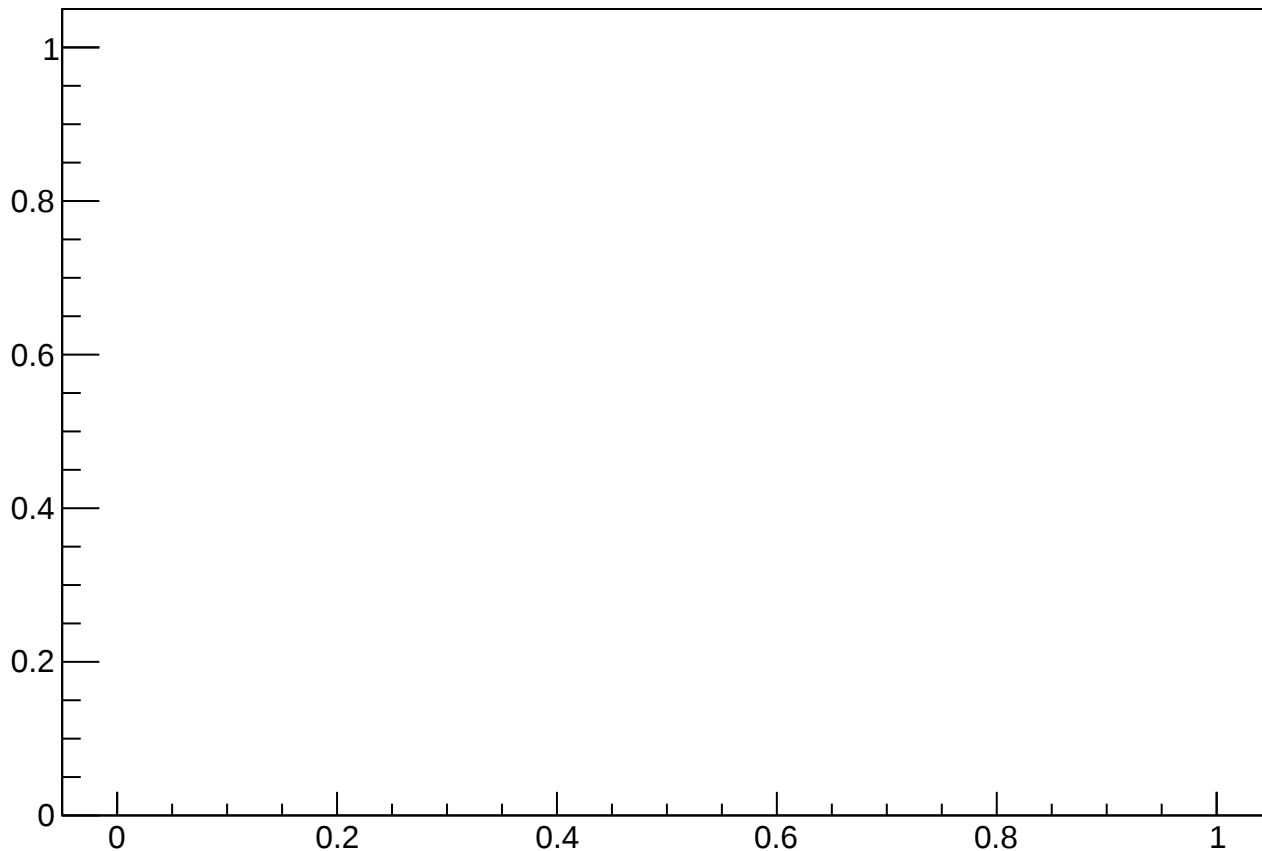
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_atl2\_coil3\_Ndata\_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\_atr1\_coil3\_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\_atr1\_coil3\_err\_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\_atr1\_coil3\_Ndata\_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\_atr2\_coil3\_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\_atr2\_coil3\_err\_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\_atr2\_coil3\_Ndata\_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\_sam1\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam1\_coil3\_err\_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\_sam1\_coil3\_Ndata\_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\_sam2\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam2\_coil3\_err\_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\_sam2\_coil3\_Ndata\_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\_sam3\_coil3\_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\_sam3\_coil3\_err\_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\_sam3\_coil3\_Ndata\_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\_sam4\_coil3\_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\_sam4\_coil3\_err\_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\_sam4\_coil3\_Ndata\_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\_sam5\_coil3\_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\_sam5\_coil3\_err\_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\_sam5\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam6\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam6\_coil3\_err\_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\_sam6\_coil3\_Ndata\_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\_sam7\_coil3\_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\_sam7\_coil3\_err\_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\_sam7\_coil3\_Ndata\_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\_sam8\_coil3\_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\_sam8\_coil3\_err\_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\_sam8\_coil3\_Ndata\_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\_4aX\_coil7\_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

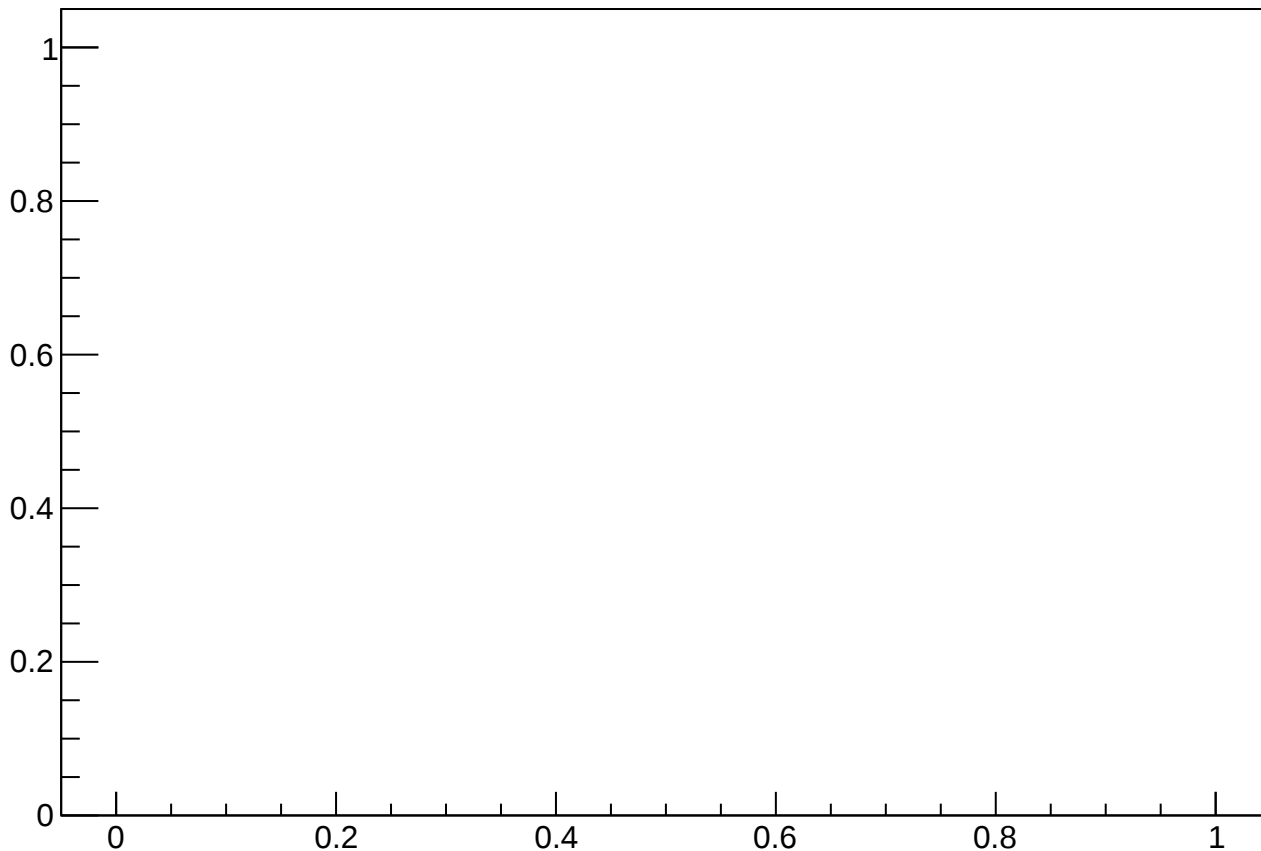
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_4aX\_coil7\_err\_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\_4aX\_coil7\_Ndata\_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\_4eX\_coil7\_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\_4eX\_coil7\_err\_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\_4eX\_coil7\_Ndata\_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\_11X12X\_coil7\_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\_11X12X\_coil7\_err\_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\_11X12X\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4aY\_coil7\_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\_4aY\_coil7\_err\_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

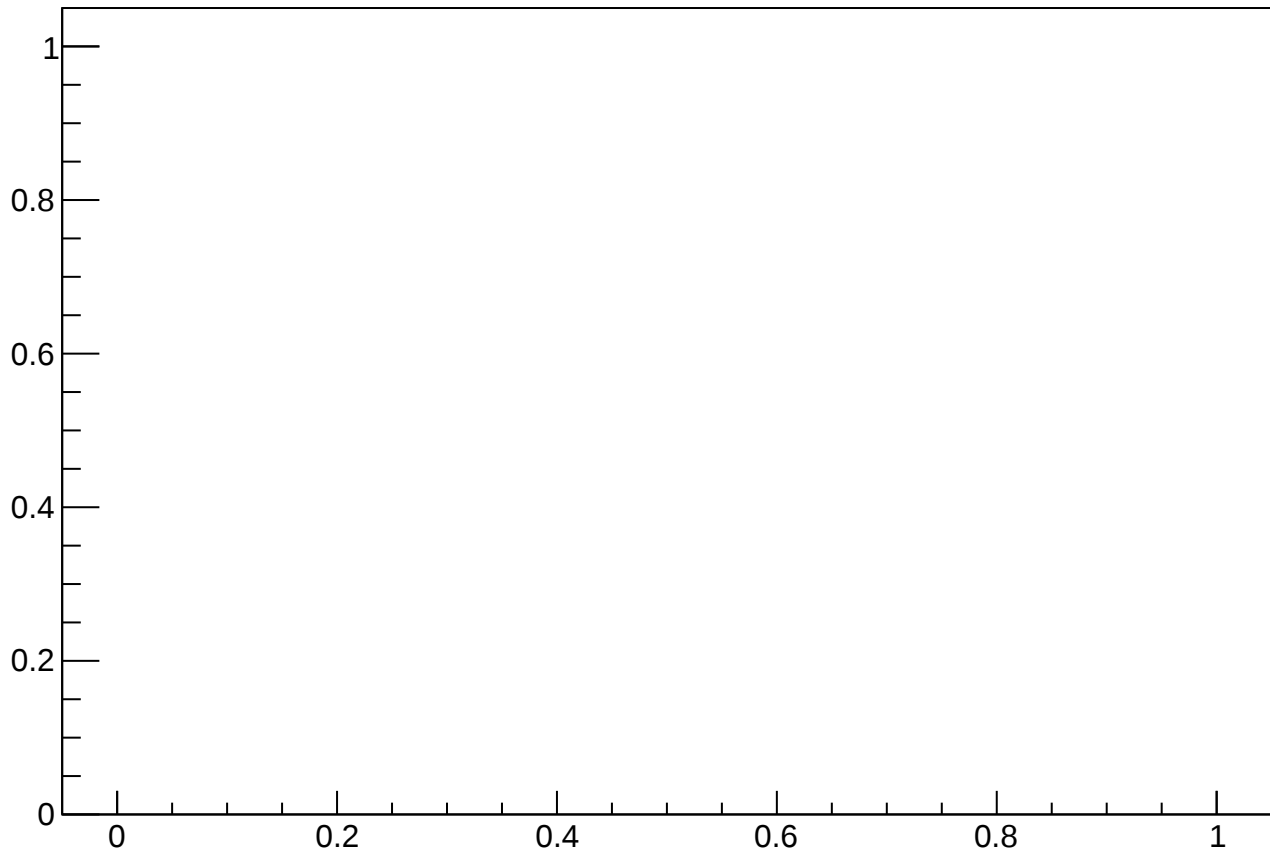
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_4aY\_coil7\_Ndata\_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\_4eY\_coil7\_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\_4eY\_coil7\_err\_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\_4eY\_coil7\_Ndata\_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\_usl\_coil7\_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\_usl\_coil7\_err\_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\_usl\_coil7\_Ndata\_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\_usr\_coil7\_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\_usr\_coil7\_err\_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\_usr\_coil7\_Ndata\_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\_atl1\_coil7\_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\_atl1\_coil7\_err\_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\_atl1\_coil7\_Ndata\_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\_atl2\_coil7\_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

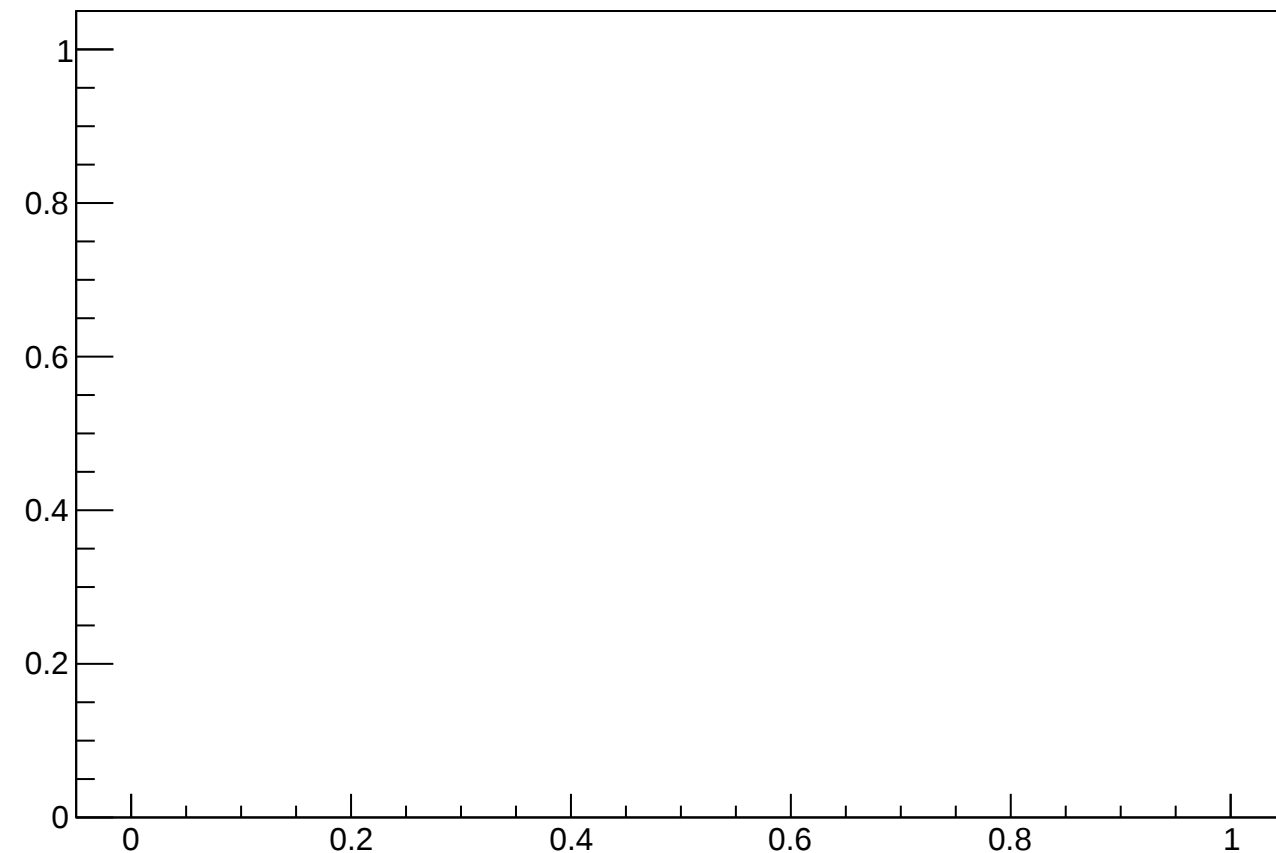
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_atl2\_coil7\_err\_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\_atl2\_coil7\_Ndata\_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\_atr1\_coil7\_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\_atr1\_coil7\_err\_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\_atr1\_coil7\_Ndata\_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\_atr2\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_atr2\_coil7\_err\_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\_atr2\_coil7\_Ndata\_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\_sam1\_coil7\_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\_sam1\_coil7\_err\_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\_sam1\_coil7\_Ndata\_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\_sam2\_coil7\_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\_sam2\_coil7\_err\_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

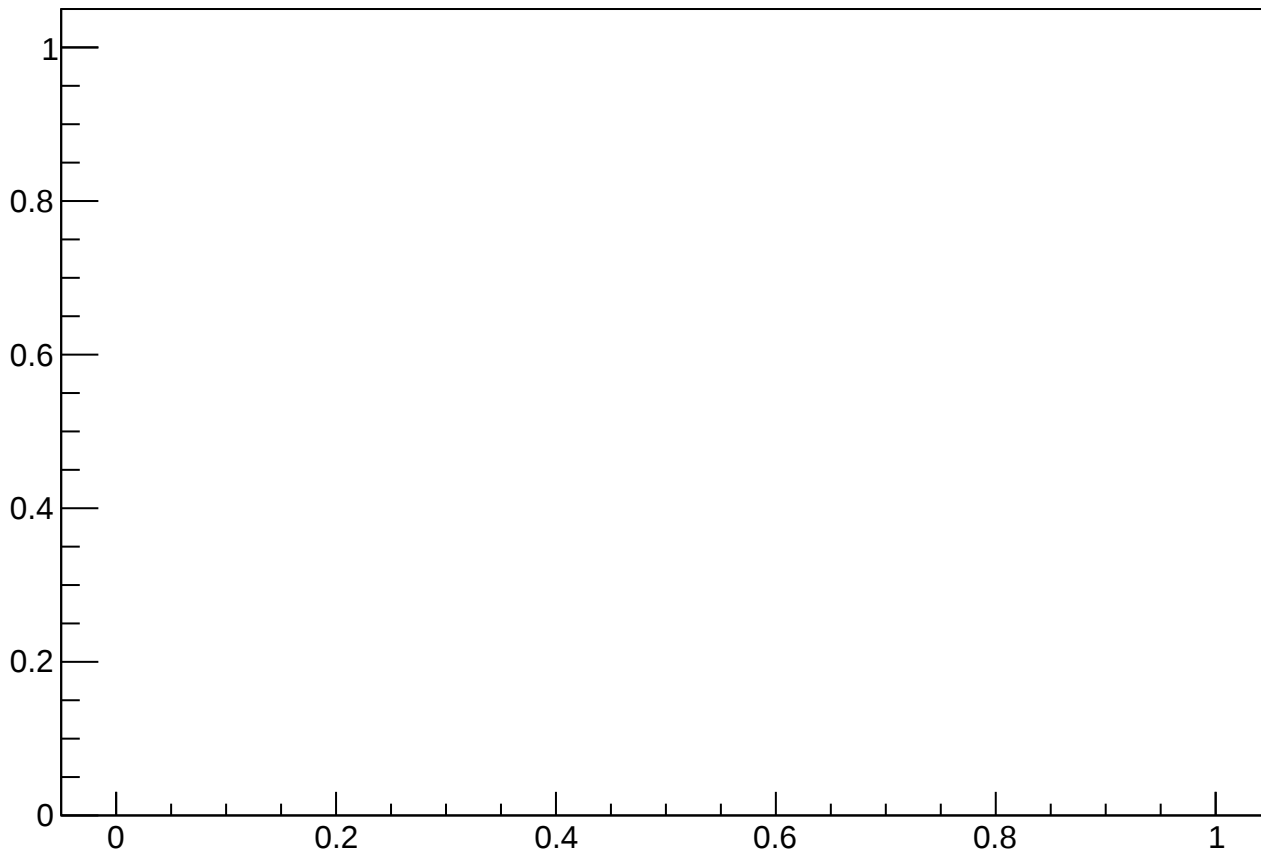
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_sam2\_coil7\_Ndata\_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\_sam3\_coil7\_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\_sam3\_coil7\_err\_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\_sam3\_coil7\_Ndata\_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\_sam4\_coil7\_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\_sam4\_coil7\_err\_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\_sam4\_coil7\_Ndata\_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

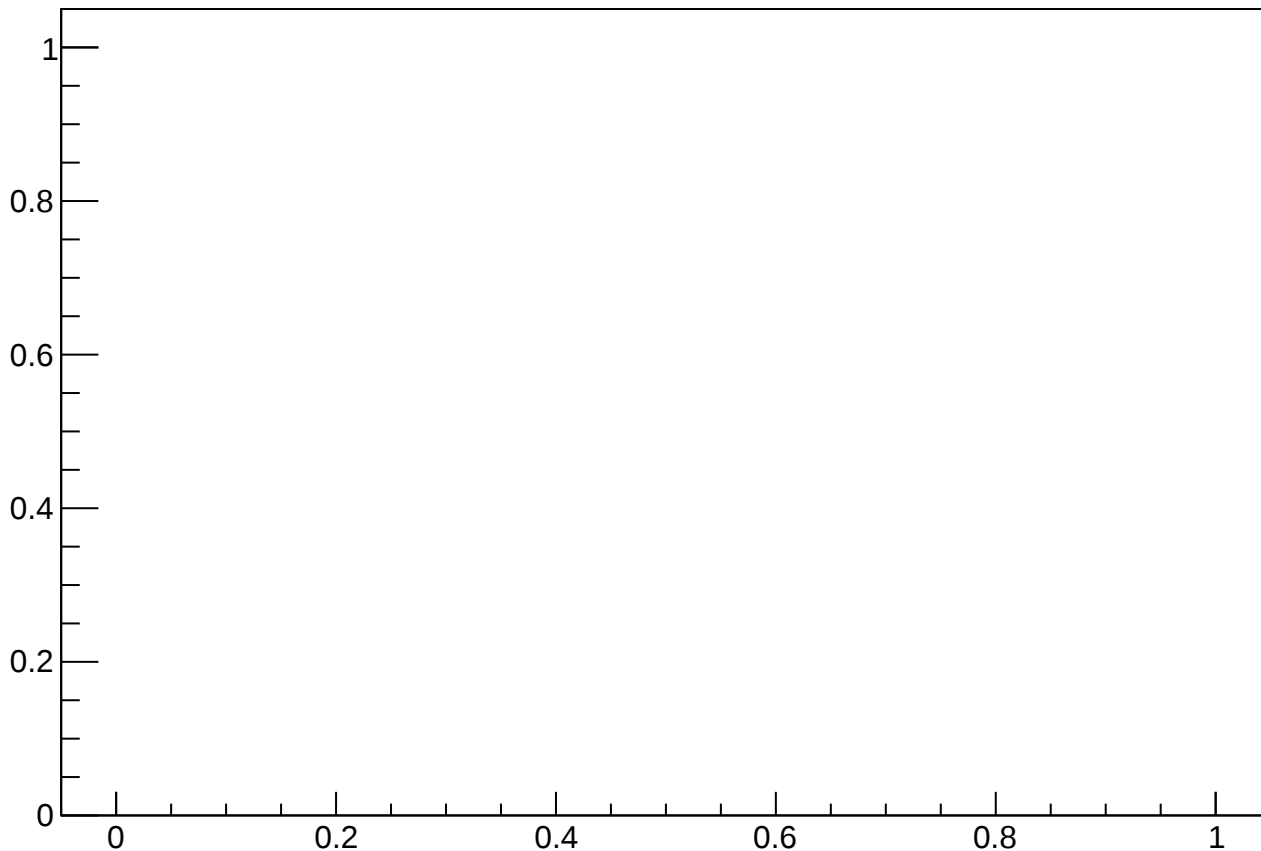
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_sam5\_coil7\_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\_sam5\_coil7\_err\_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\_sam5\_coil7\_Ndata\_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\_sam6\_coil7\_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\_sam6\_coil7\_err\_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\_sam6\_coil7\_Ndata\_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\_sam7\_coil7\_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\_sam7\_coil7\_err\_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\_sam7\_coil7\_Ndata\_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\_sam8\_coil7\_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\_sam8\_coil7\_err\_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\_sam8\_coil7\_Ndata\_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\_4aX\_coil4\_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\_4aX\_coil4\_err\_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\_4aX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4eX\_coil4\_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\_4eX\_coil4\_err\_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\_4eX\_coil4\_Ndata\_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\_11X12X\_coil4\_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\_11X12X\_coil4\_err\_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\_11X12X\_coil4\_Ndata\_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\_4aY\_coil4\_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\_4aY\_coil4\_err\_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\_4aY\_coil4\_Ndata\_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

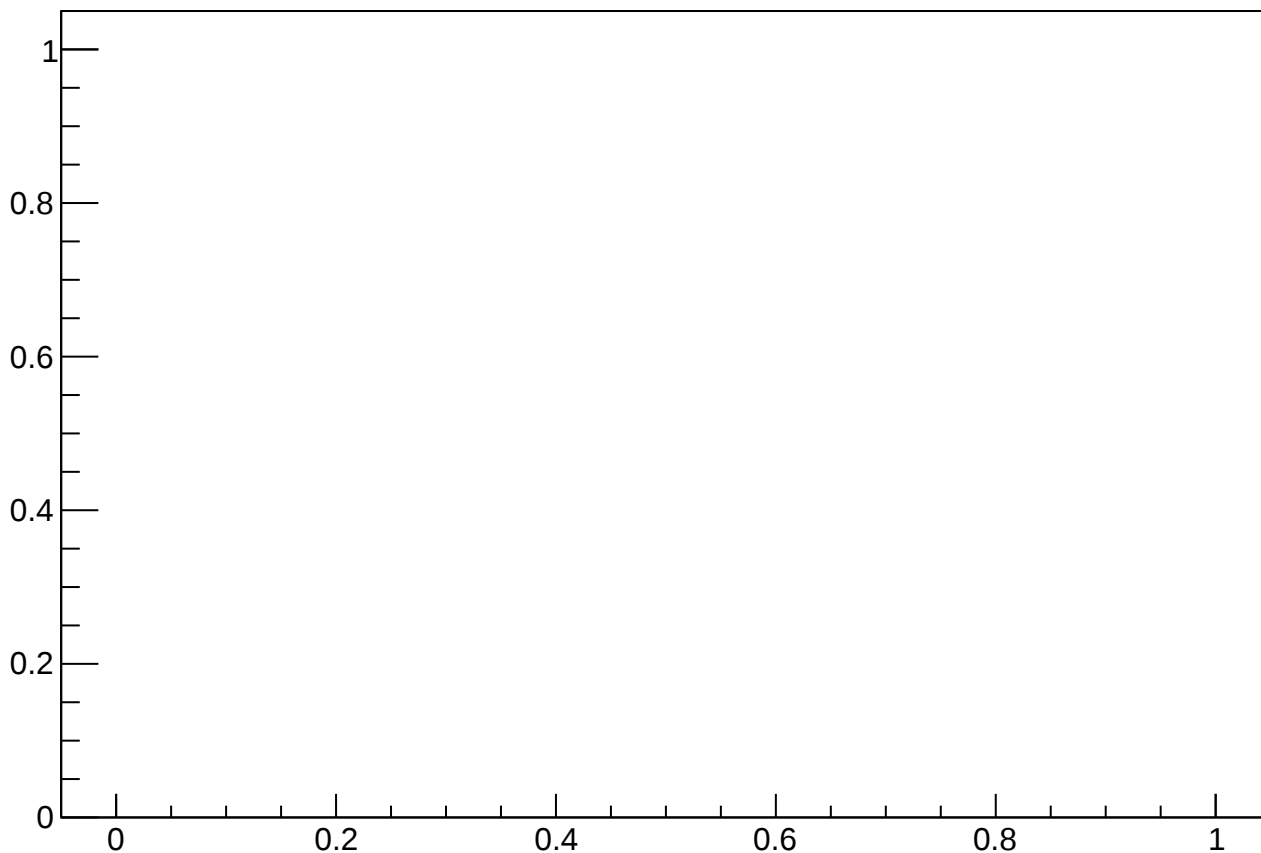
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_4eY\_coil4\_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\_4eY\_coil4\_err\_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\_4eY\_coil4\_Ndata\_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\_usl\_coil4\_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\_usl\_coil4\_err\_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\_usl\_coil4\_Ndata\_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\_usr\_coil4\_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\_usr\_coil4\_err\_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\_usr\_coil4\_Ndata\_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\_atl1\_coil4\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_atl1\_coil4\_err\_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\_atl1\_coil4\_Ndata\_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\_atl2\_coil4\_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\_atl2\_coil4\_err\_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\_atl2\_coil4\_Ndata\_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\_atr1\_coil4\_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\_atr1\_coil4\_err\_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\_atr1\_coil4\_Ndata\_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

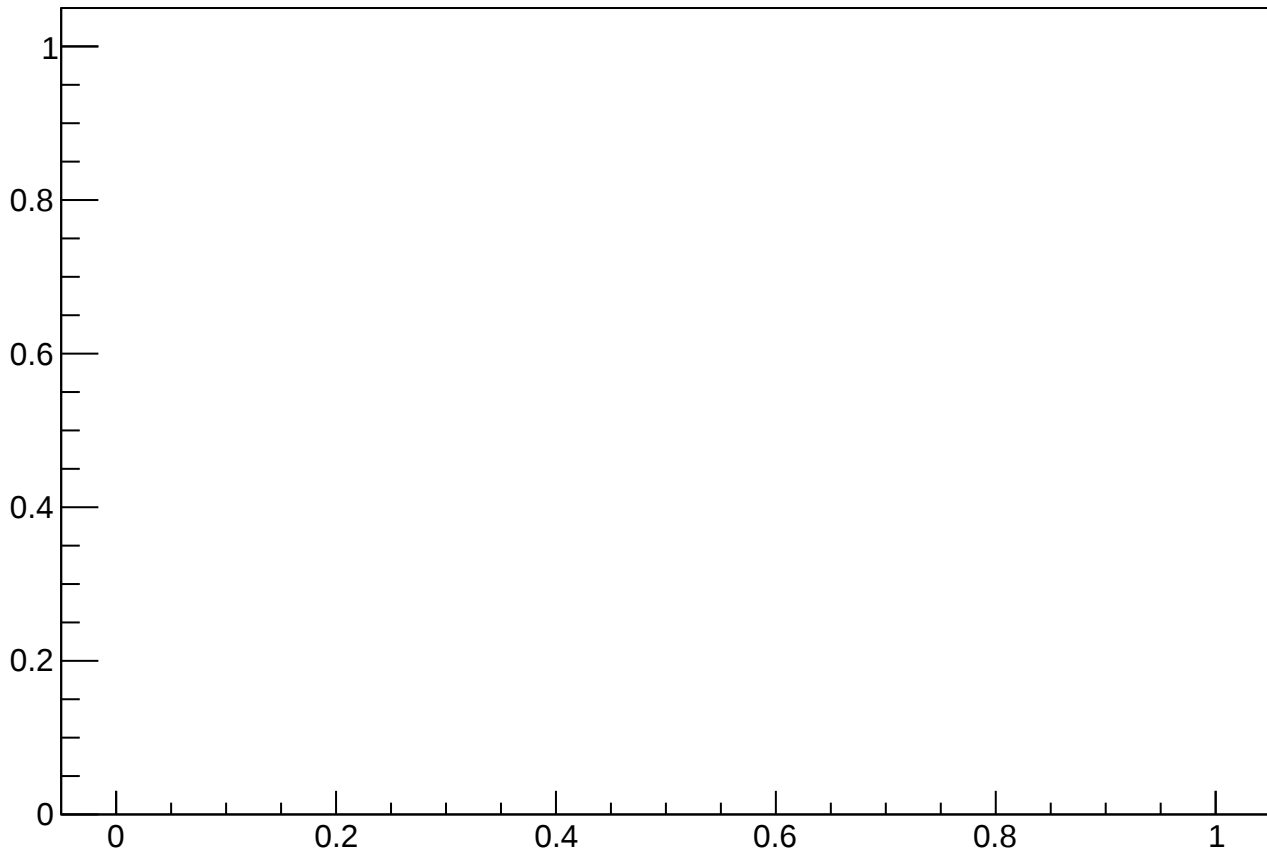
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_atr2\_coil4\_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\_atr2\_coil4\_err\_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\_atr2\_coil4\_Ndata\_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\_sam1\_coil4\_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\_sam1\_coil4\_err\_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\_sam1\_coil4\_Ndata\_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\_sam2\_coil4\_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\_sam2\_coil4\_err\_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\_sam2\_coil4\_Ndata\_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\_sam3\_coil4\_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\_sam3\_coil4\_err\_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\_sam3\_coil4\_Ndata\_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\_sam4\_coil4\_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\_sam4\_coil4\_err\_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\_sam4\_coil4\_Ndata\_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\_sam5\_coil4\_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\_sam5\_coil4\_err\_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\_sam5\_coil4\_Ndata\_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\_sam6\_coil4\_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\_sam6\_coil4\_err\_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\_sam6\_coil4\_Ndata\_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\_sam7\_coil4\_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\_sam7\_coil4\_err\_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\_sam7\_coil4\_Ndata\_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\_sam8\_coil4\_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\_sam8\_coil4\_err\_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\_sam8\_coil4\_Ndata\_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\_4aX\_coil6\_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

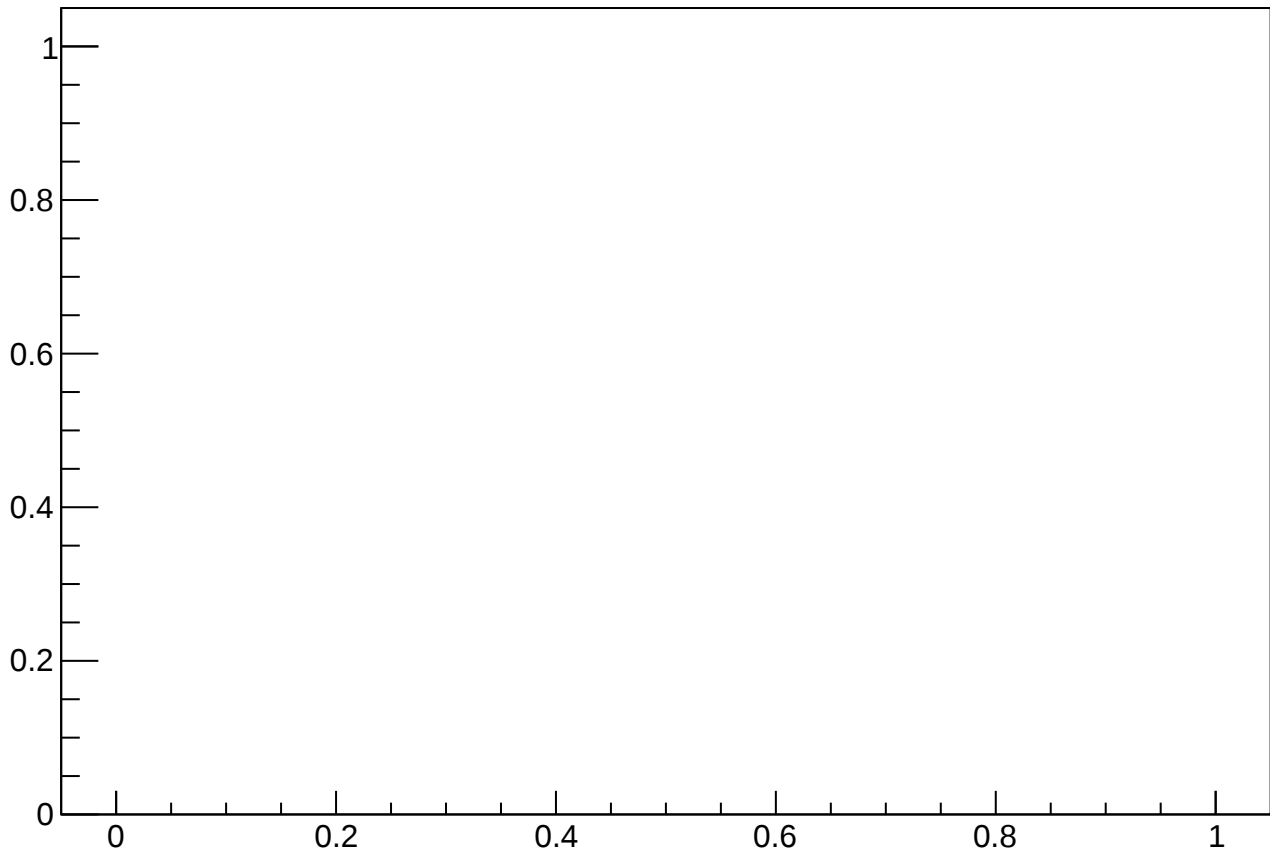
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_4aX\_coil6\_err\_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\_4aX\_coil6\_Ndata\_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\_4eX\_coil6\_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\_4eX\_coil6\_err\_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

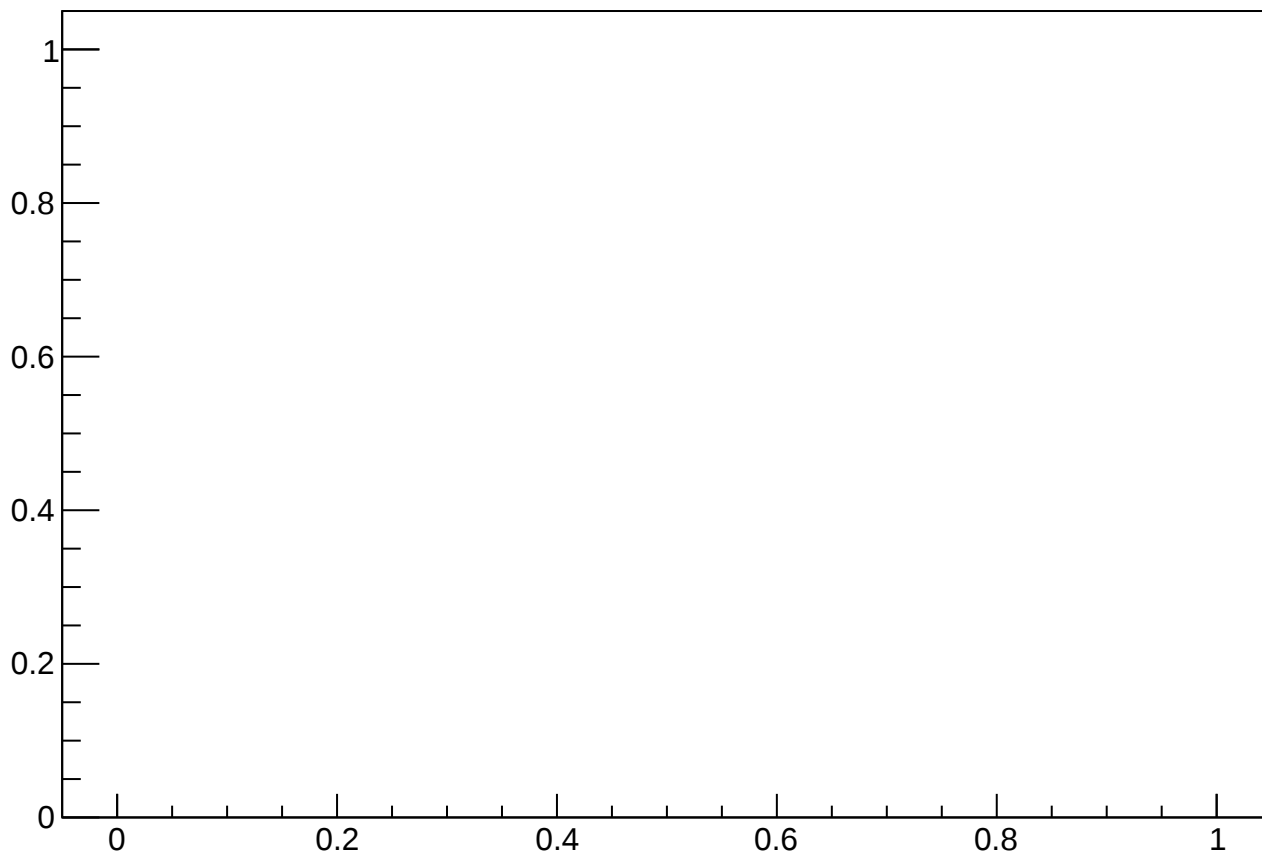
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_4eX\_coil6\_Ndata\_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\_11X12X\_coil6\_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\_11X12X\_coil6\_err\_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\_11X12X\_coil6\_Ndata\_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\_4aY\_coil6\_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\_4aY\_coil6\_err\_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\_4aY\_coil6\_Ndata\_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

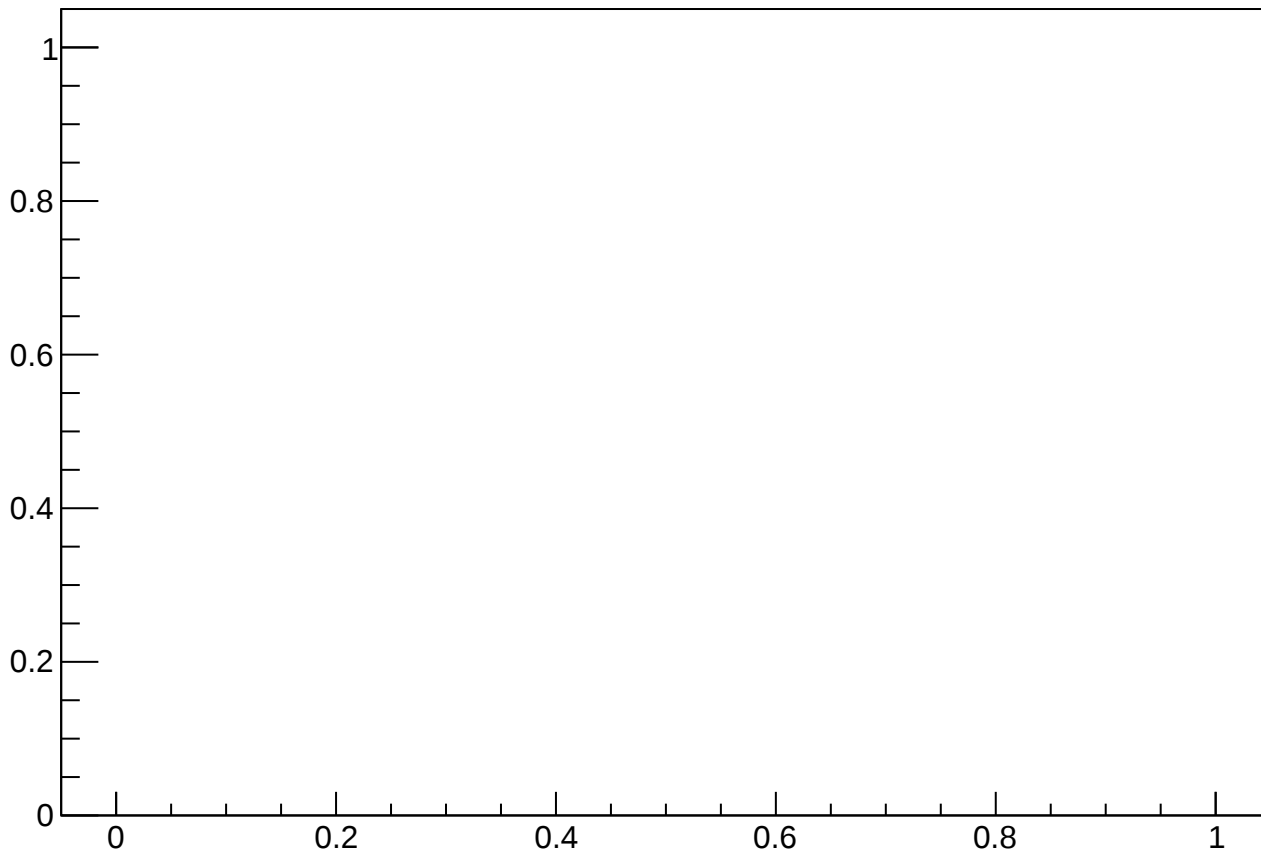
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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\_4eY\_coil6\_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\_4eY\_coil6\_err\_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\_4eY\_coil6\_Ndata\_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\_usl\_coil6\_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\_usl\_coil6\_err\_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\_usl\_coil6\_Ndata\_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\_usr\_coil6\_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\_usr\_coil6\_err\_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\_usr\_coil6\_Ndata\_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\_atl1\_coil6\_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\_atl1\_coil6\_err\_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\_atl1\_coil6\_Ndata\_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\_atl2\_coil6\_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\_atl2\_coil6\_err\_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\_atl2\_coil6\_Ndata\_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\_atr1\_coil6\_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\_atr1\_coil6\_err\_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\_atr1\_coil6\_Ndata\_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\_atr2\_coil6\_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\_atr2\_coil6\_err\_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\_atr2\_coil6\_Ndata\_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\_sam1\_coil6\_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\_sam1\_coil6\_err\_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\_sam1\_coil6\_Ndata\_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\_sam2\_coil6\_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\_sam2\_coil6\_err\_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\_sam2\_coil6\_Ndata\_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\_sam3\_coil6\_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\_sam3\_coil6\_err\_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

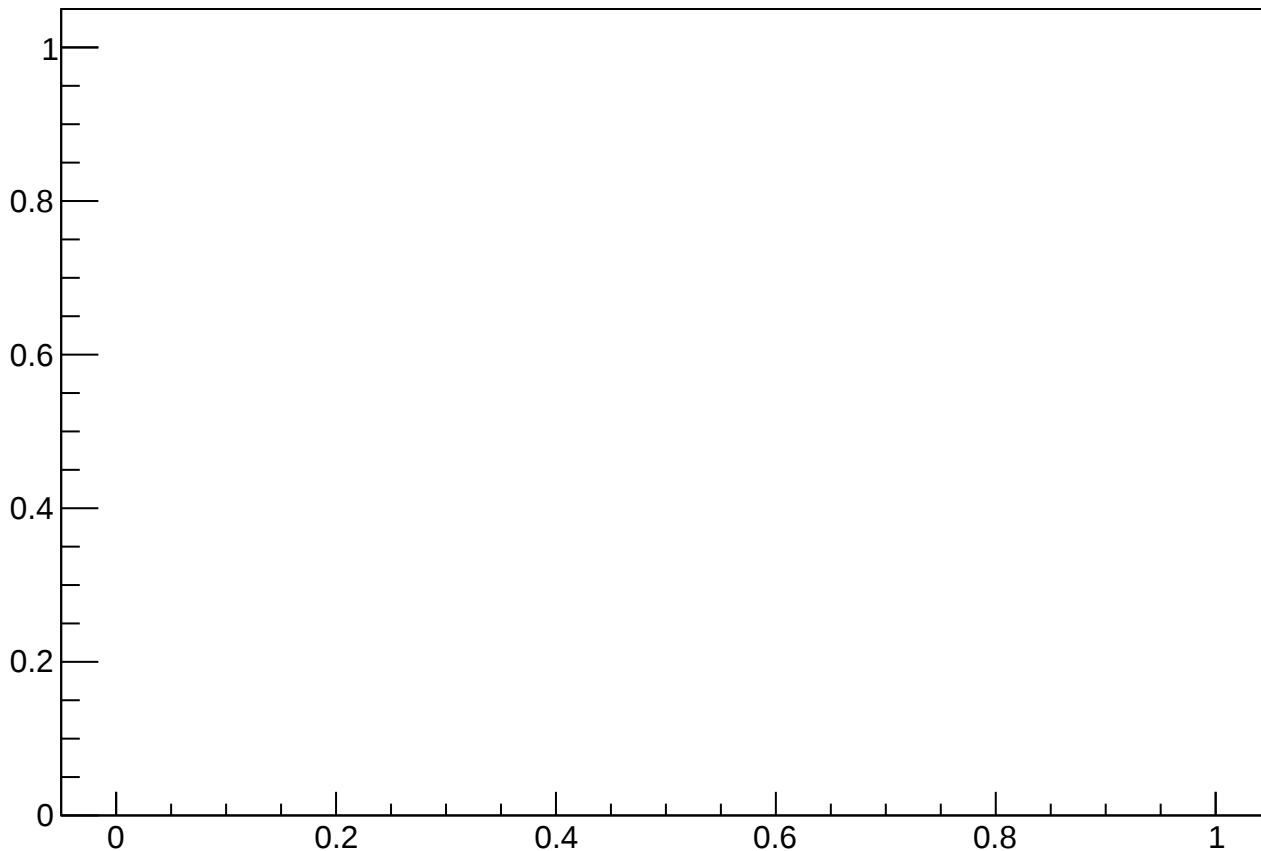
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam4\_coil6\_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\_sam4\_coil6\_err\_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\_sam4\_coil6\_Ndata\_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\_sam5\_coil6\_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\_sam5\_coil6\_err\_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\_sam5\_coil6\_Ndata\_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

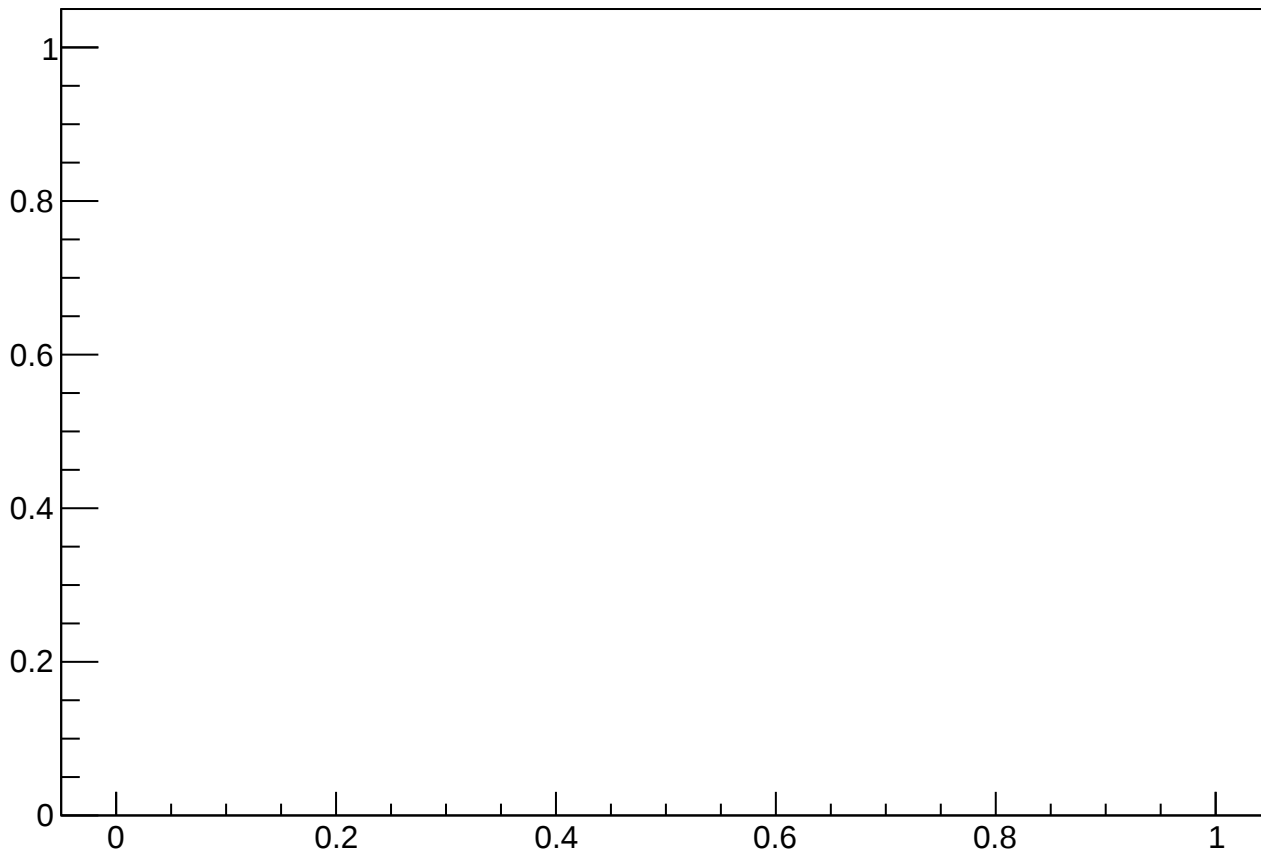
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_sam6\_coil6\_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\_sam6\_coil6\_err\_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\_sam6\_coil6\_Ndata\_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\_sam7\_coil6\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam7\_coil6\_err\_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\_sam7\_coil6\_Ndata\_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\_sam8\_coil6\_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\_sam8\_coil6\_err\_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\_sam8\_coil6\_Ndata\_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

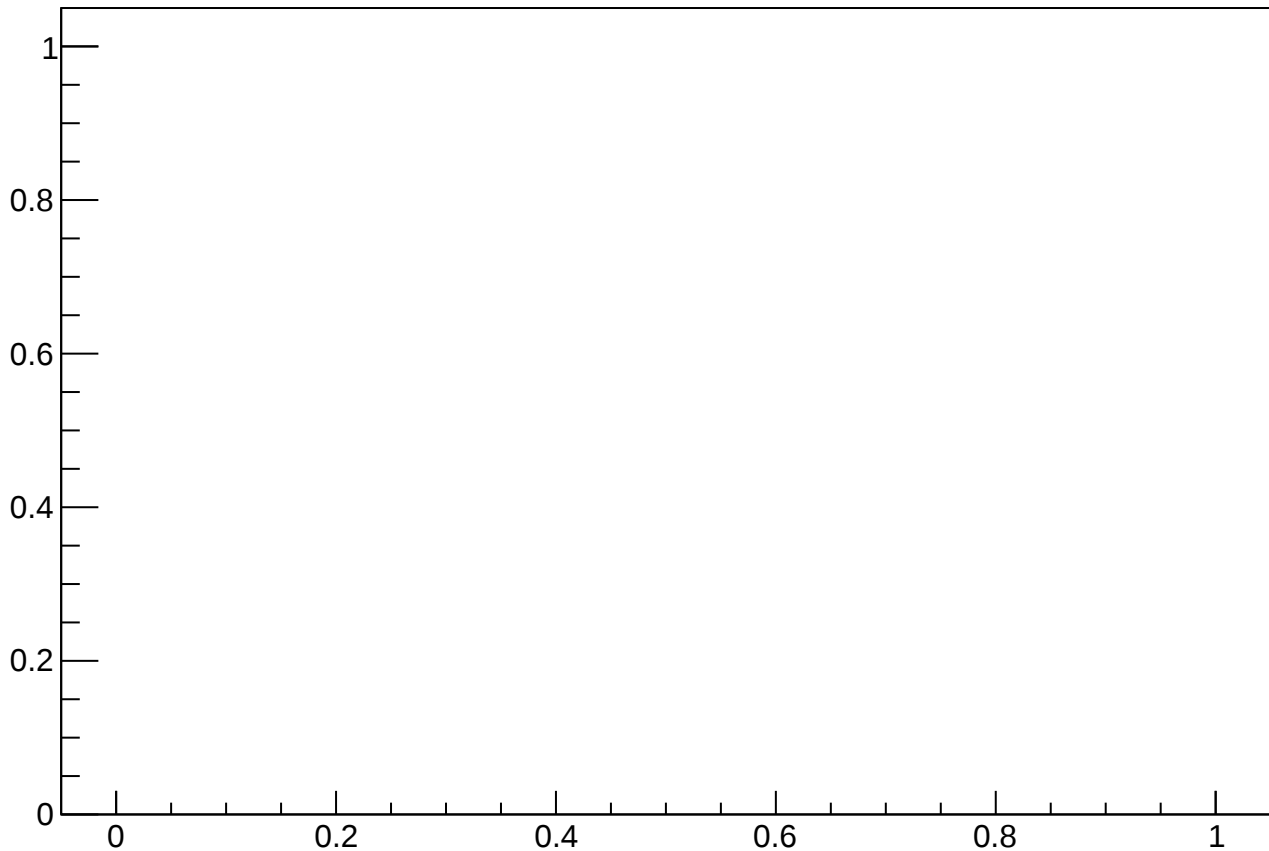
# dit\_run\_mean vs Slug, Sign Corrected



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\_run\_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

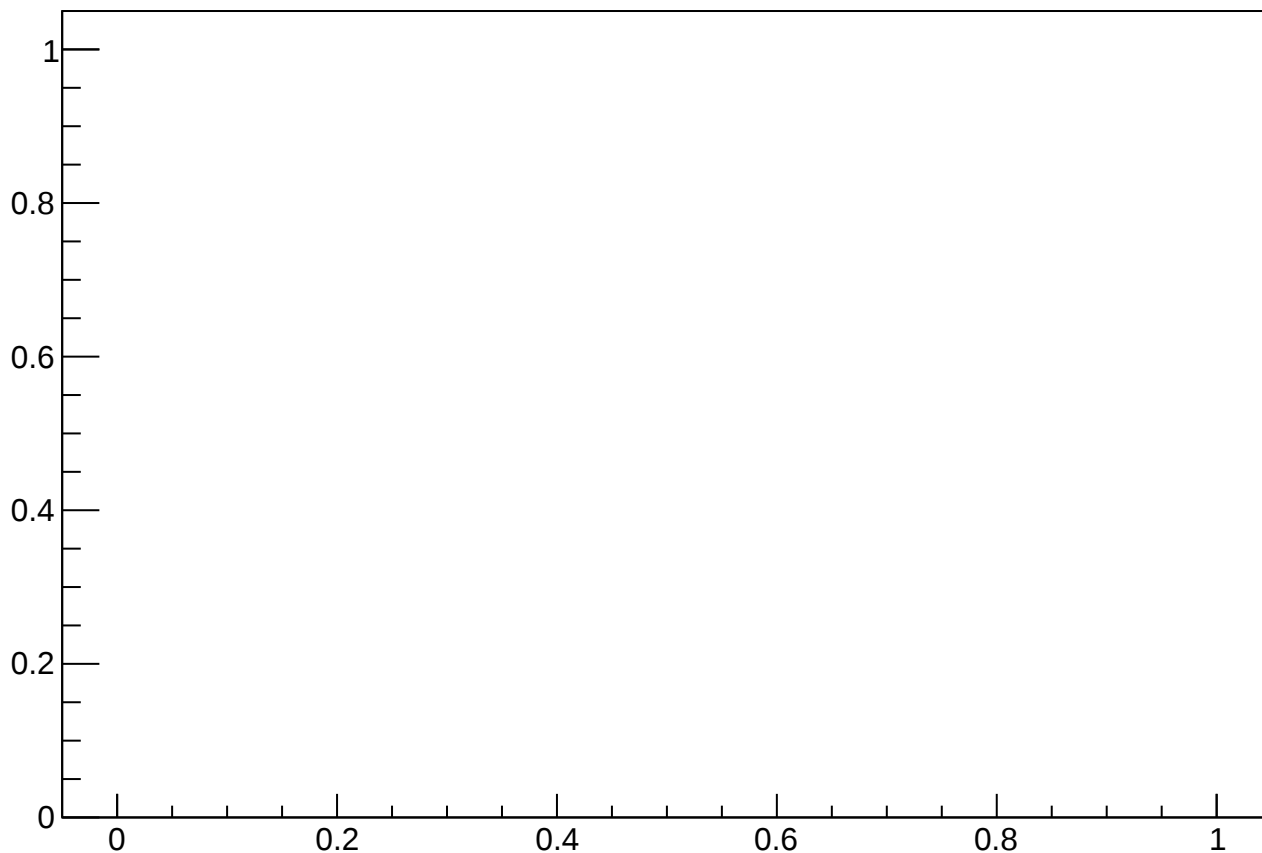
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_slug\_slope 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\_cyclenum\_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\_cyclenum\_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\_scandata1\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_scandata1\_rms vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_scandata2\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_scandata2\_rms vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

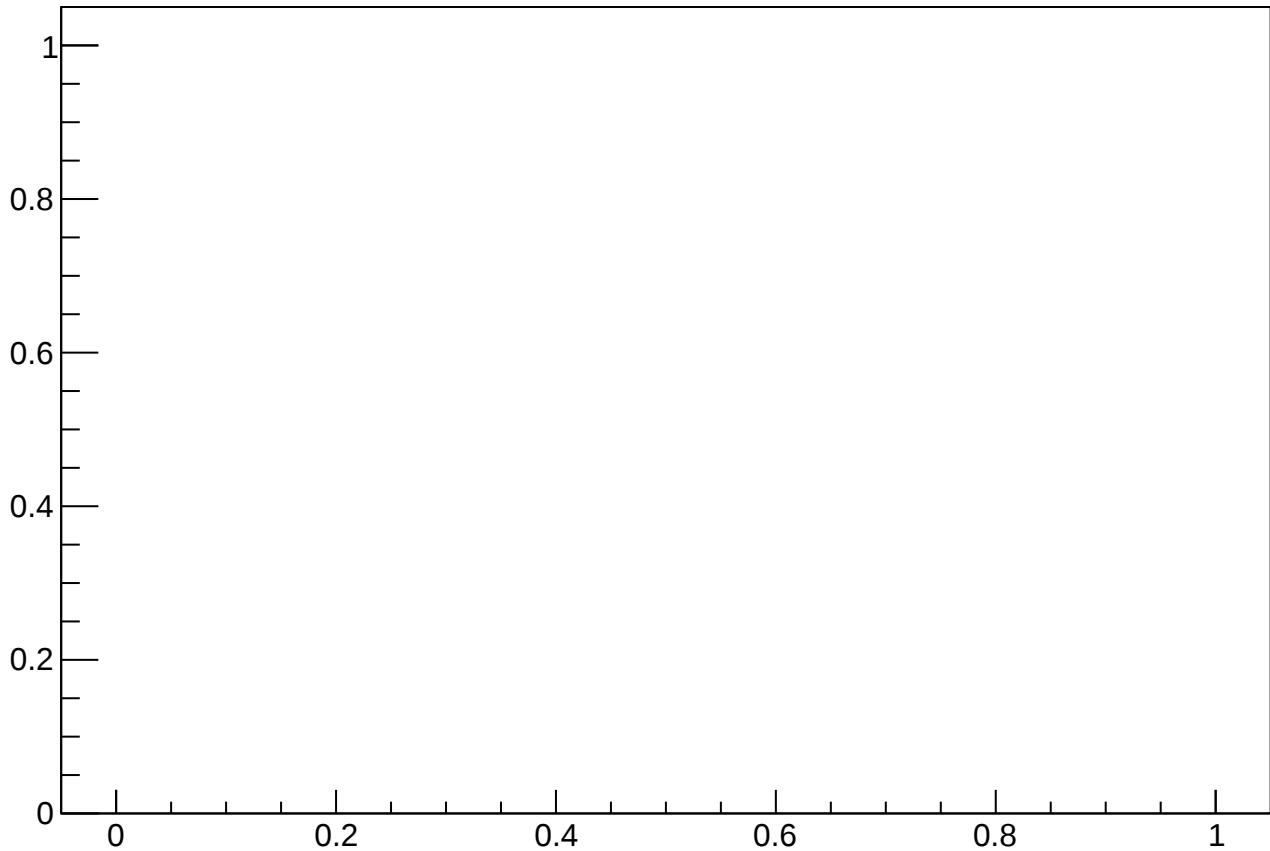
# dit\_flag\_mean vs Slug, Sign Corrected



Right In: 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\_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

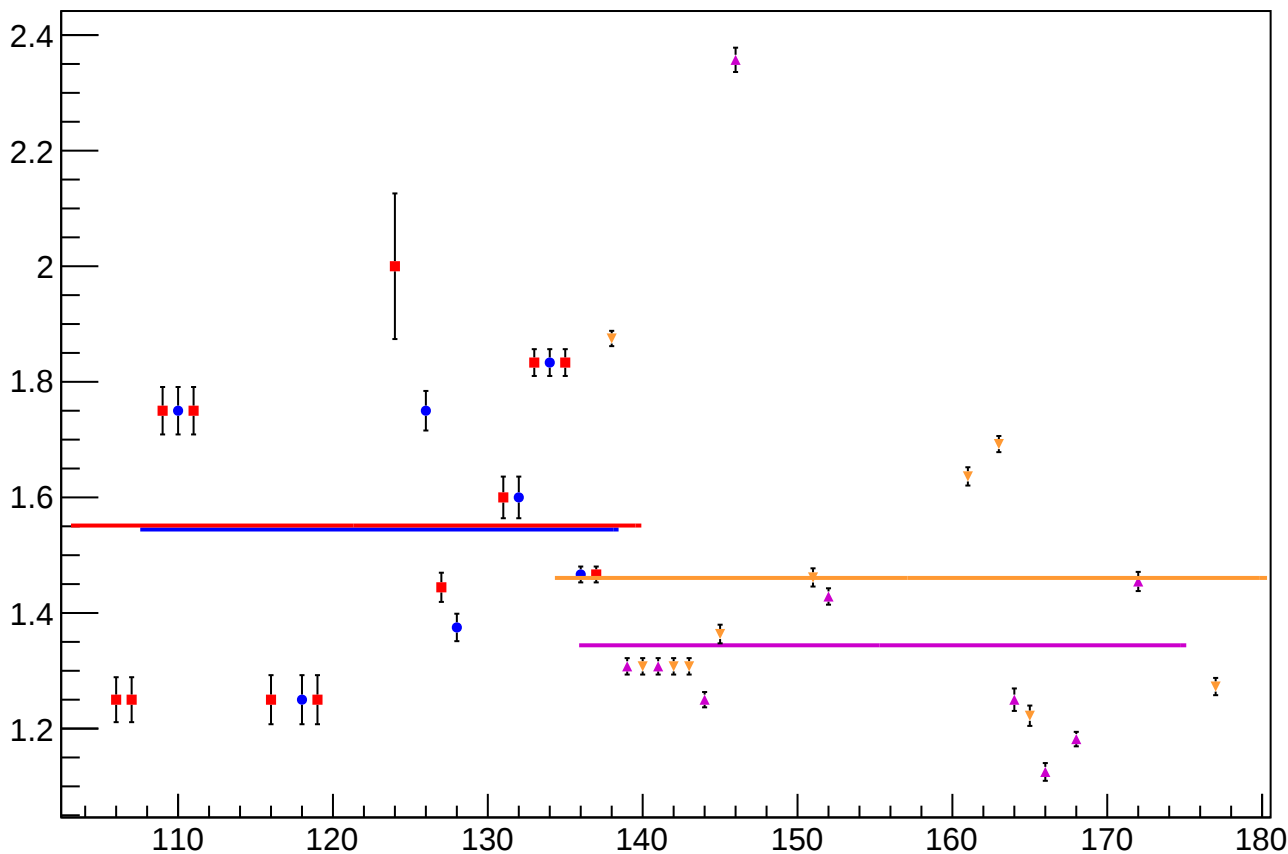
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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\_segment\_slope vs Slug, Sign Corrected



Right In: 1.544 $\pm$ 0.009  $\chi^2$ /NDF: 349.7/6

Left Out: 1.461 $\pm$ 0.005  $\chi^2$ /NDF:2103.3/9

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

Left In: 1.344 $\pm$ 0.005  $\chi^2$ /NDF:2852.1/8

Left: 1.406 $\pm$ 0.003  $\chi^2$ /NDF: 5242.7/18

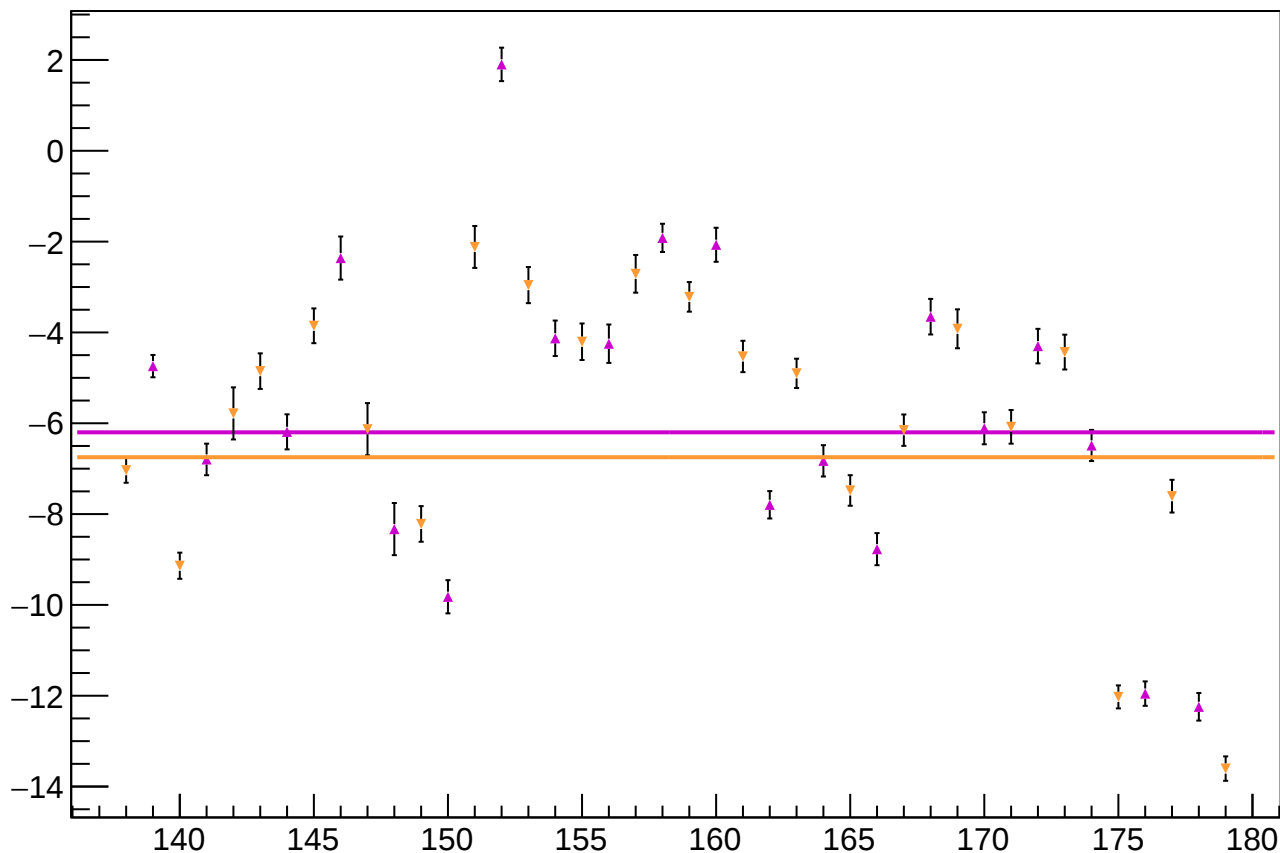
Right: 1.548 $\pm$ 0.006  $\chi^2$ /NDF: 983.5/18

In: 1.390 $\pm$ 0.004  $\chi^2$ /NDF:3564.8/15

Out: 1.483 $\pm$ 0.004  $\chi^2$ /NDF:2829.6/21

All: 1.440 $\pm$ 0.003  $\chi^2$ /NDF: 6637.2/37

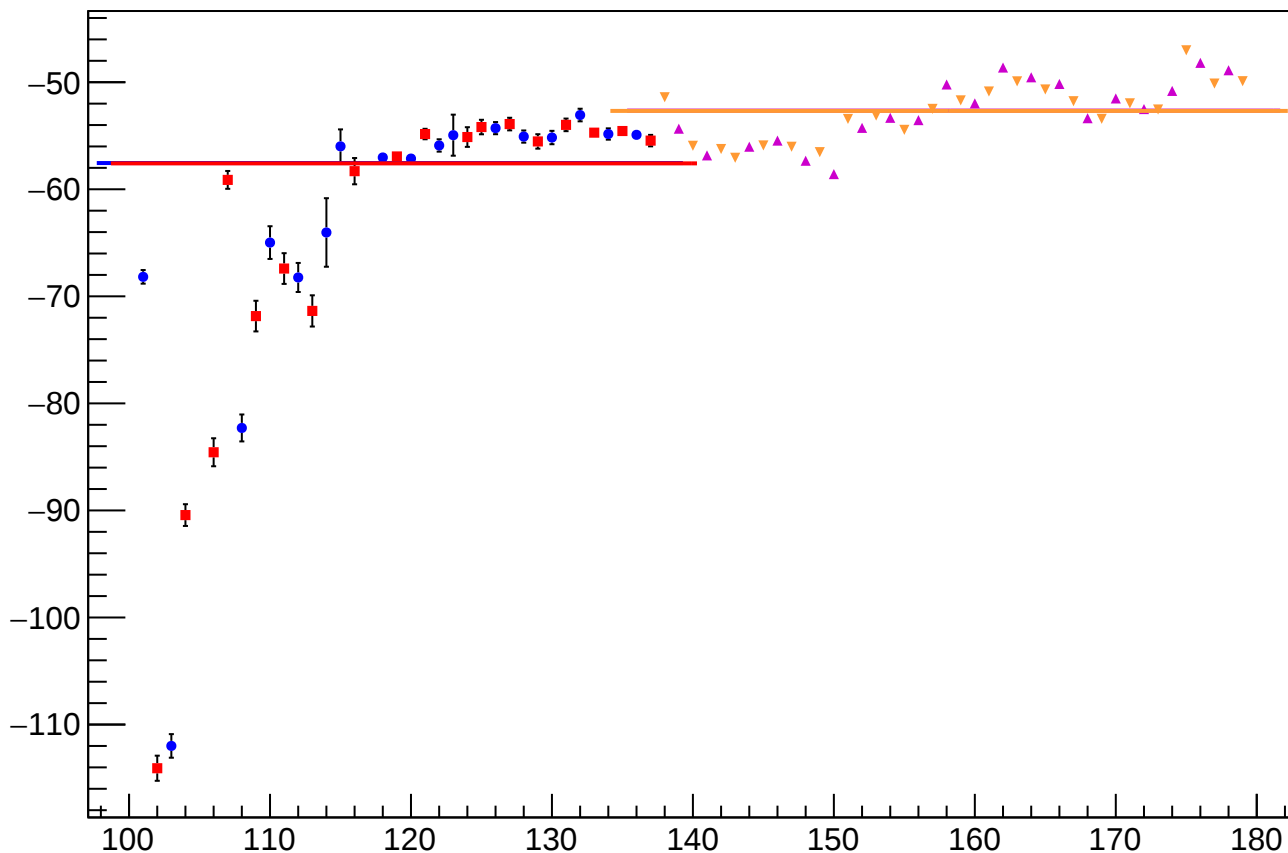
reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.748+/-0.076  $\chi^2/\text{NDF}$ :1866.8/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.200+/-0.078  $\chi^2/\text{NDF}$ :2066.1/19

Left: -6.482+/-0.054  $\chi^2/\text{NDF}$ : 3958.5/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.200+/-0.078  $\chi^2/\text{NDF}$ :2066.1/19  
 Out: -6.748+/-0.076  $\chi^2/\text{NDF}$ :1866.8/21  
 All: -6.482+/-0.054  $\chi^2/\text{NDF}$ : 3958.5/41

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -57.549 $\pm$ 0.142  $\chi^2$ /NDF: 3460.4/16

Left Out: -52.680 $\pm$ 0.059  $\chi^2$ /NDF:2072.4/21

Right Out: -57.581 $\pm$ 0.143  $\chi^2$ /NDF: 4343.8/17

Left In: -52.651 $\pm$ 0.062  $\chi^2$ /NDF:2543.0/19

Left: -52.666 $\pm$ 0.043  $\chi^2$ /NDF: 4615.5/41

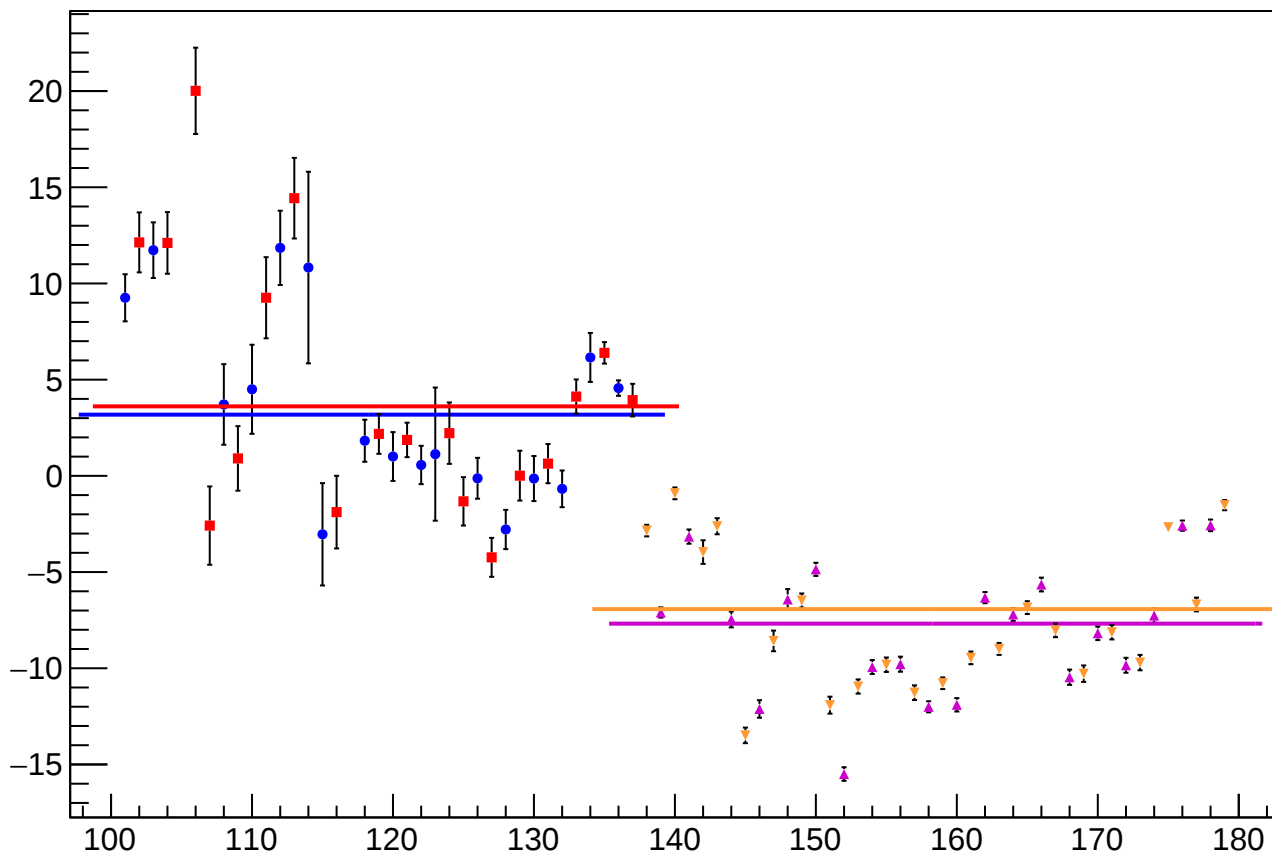
Right: -57.565 $\pm$ 0.101  $\chi^2$ /NDF: 7804.2/34

In: -53.436 $\pm$ 0.057  $\chi^2$ /NDF:7008.3/36

Out: -53.388 $\pm$ 0.054  $\chi^2$ /NDF:7422.1/39

All: -53.411 $\pm$ 0.039  $\chi^2$ /NDF: 14430.7/76

reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 3.181 $\pm$ 0.258  $\chi^2$ /NDF: 185.2/16

Left Out: -6.926 $\pm$ 0.075  $\chi^2$ /NDF:2505.3/21

Right Out: 3.612 $\pm$ 0.268  $\chi^2$ /NDF: 289.2/17

Left In: -7.681 $\pm$ 0.077  $\chi^2$ /NDF:2048.6/19

Left: -7.293 $\pm$ 0.054  $\chi^2$ /NDF: 4603.2/41

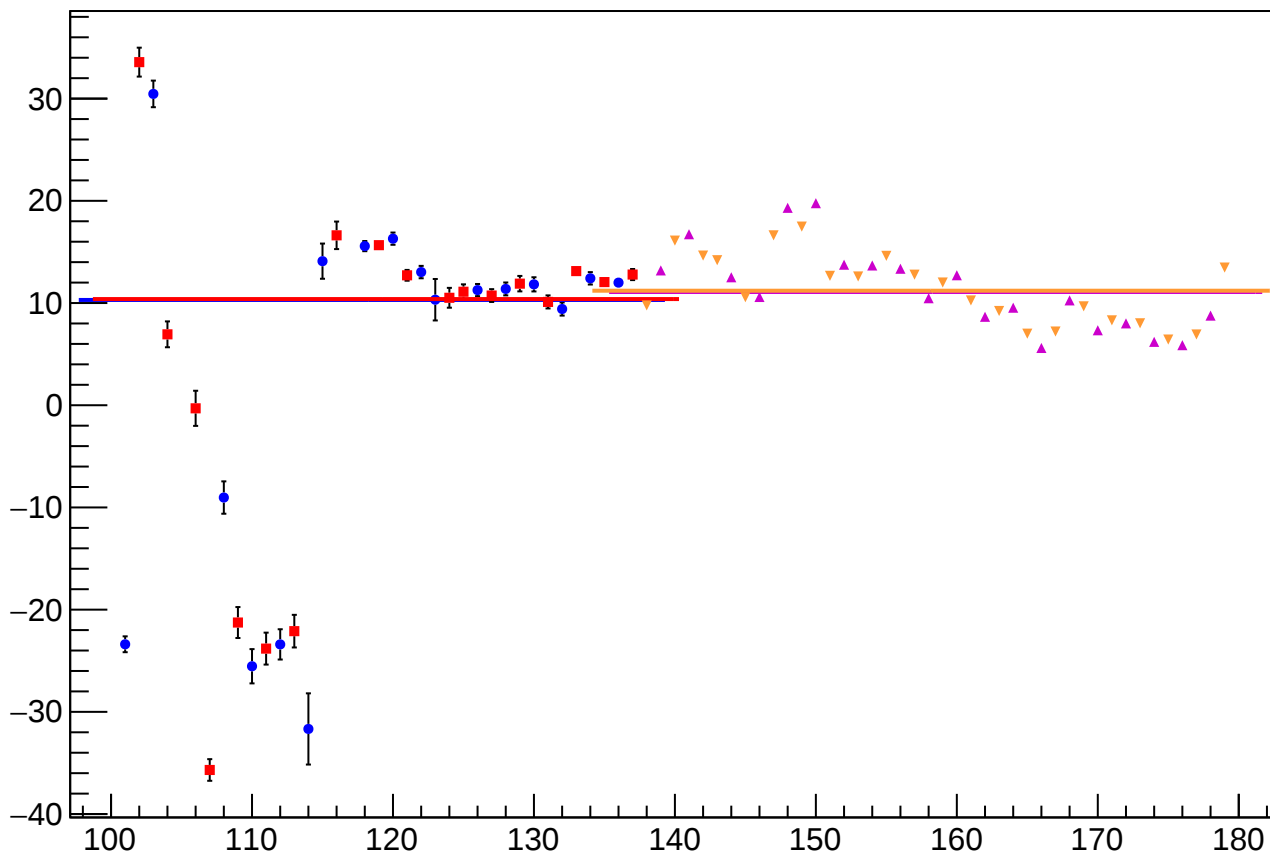
Right: 3.388 $\pm$ 0.186  $\chi^2$ /NDF: 475.8/34

In: -6.792 $\pm$ 0.074  $\chi^2$ /NDF:3861.3/36

Out: -6.159 $\pm$ 0.072  $\chi^2$ /NDF:4229.5/39

All: -6.469 $\pm$ 0.052  $\chi^2$ /NDF: 8128.3/76

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.301+/-0.157  $\chi^2/\text{NDF}$ : 3699.4/16

Left Out: 11.206+/-0.066  $\chi^2/\text{NDF}$ : 2453.1/21

Right Out: 10.388+/-0.160  $\chi^2/\text{NDF}$ : 3786.4/17

Left In: 11.079+/-0.069  $\chi^2/\text{NDF}$ : 3269.1/19

Left: 11.145+/-0.048  $\chi^2/\text{NDF}$ : 5724.0/41

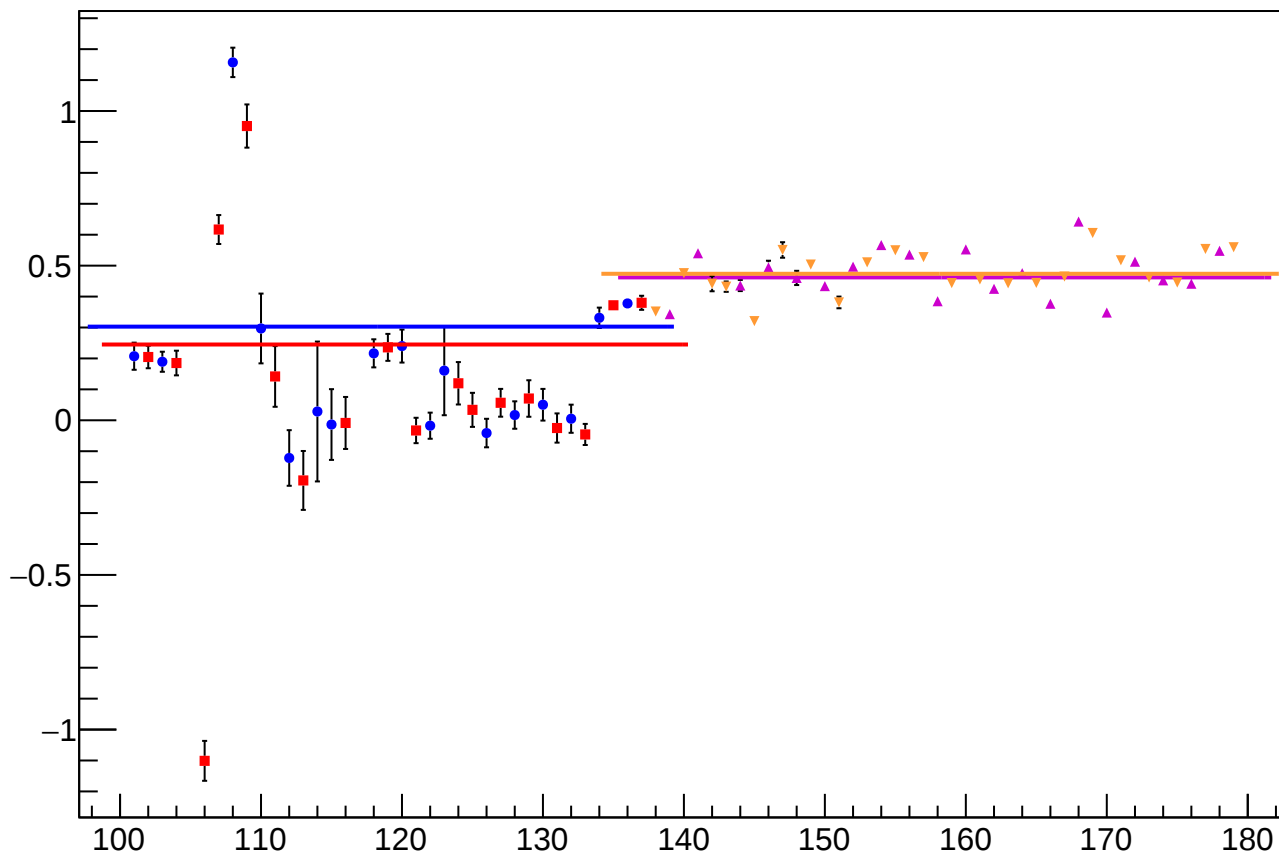
Right: 10.344+/-0.112  $\chi^2/\text{NDF}$ : 7485.9/34

In: 10.954+/-0.063  $\chi^2/\text{NDF}$ : 6989.1/36

Out: 11.087+/-0.061  $\chi^2/\text{NDF}$ : 6261.8/39

All: 11.023+/-0.044  $\chi^2/\text{NDF}$ : 13253.2/76

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.303 $\pm$ 0.008  $\chi^2$ /NDF: 647.2/16

Left Out: 0.474 $\pm$ 0.003  $\chi^2$ /NDF:500.1/21

Right Out: 0.245 $\pm$ 0.009  $\chi^2$ /NDF: 954.5/17

Left In: 0.462 $\pm$ 0.003  $\chi^2$ /NDF:724.6/19

Left: 0.468 $\pm$ 0.002  $\chi^2$ /NDF: 1232.4/41

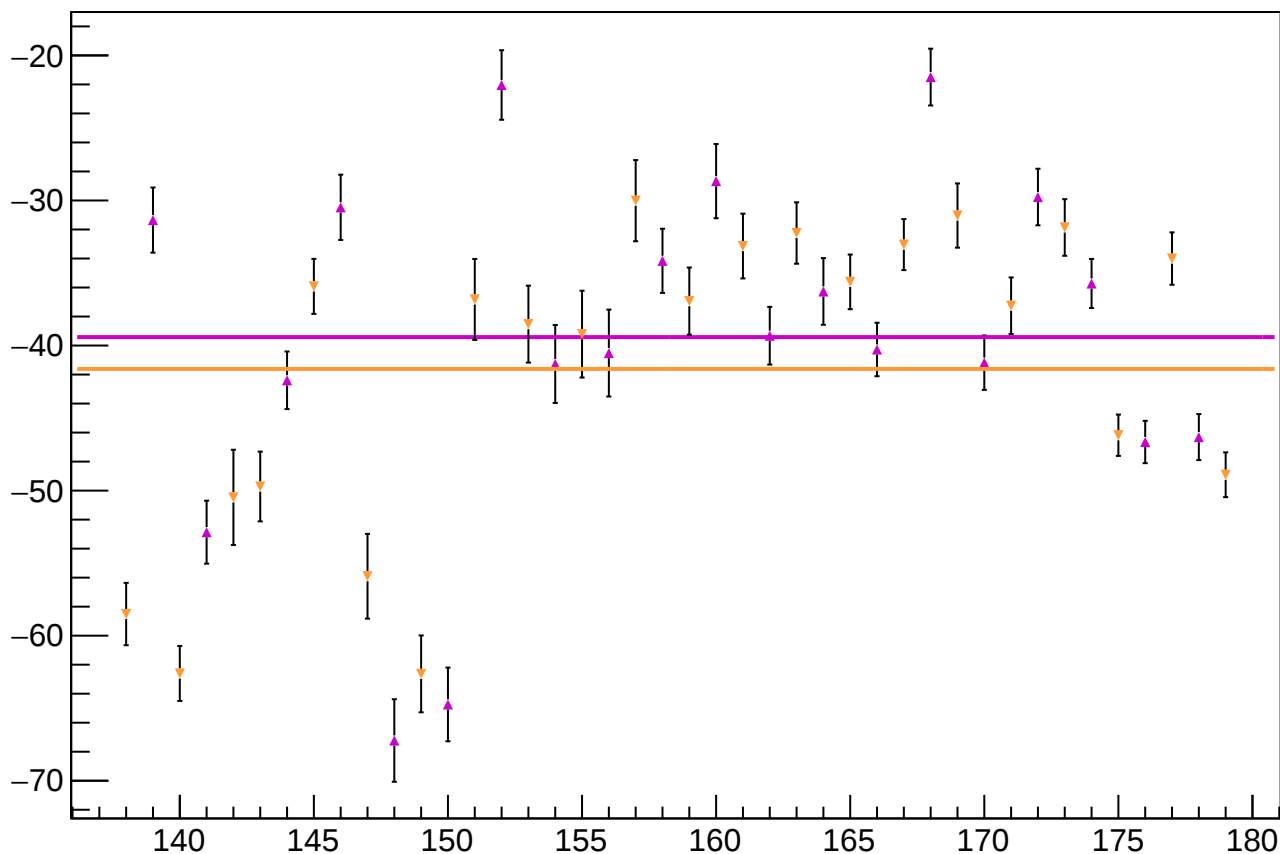
Right: 0.275 $\pm$ 0.006  $\chi^2$ /NDF: 1625.6/34

In: 0.443 $\pm$ 0.003  $\chi^2$ /NDF:1704.1/36

Out: 0.449 $\pm$ 0.003  $\chi^2$ /NDF:2097.2/39

All: 0.446 $\pm$ 0.002  $\chi^2$ /NDF: 3803.3/76

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: -41.610+/-0.448  $\chi^2/\text{NDF}$ :496.4/21

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

Left In: -39.418+/-0.462  $\chi^2/\text{NDF}$ :500.3/19

Left: -40.547+/-0.322  $\chi^2/\text{NDF}$ : 1008.2/41

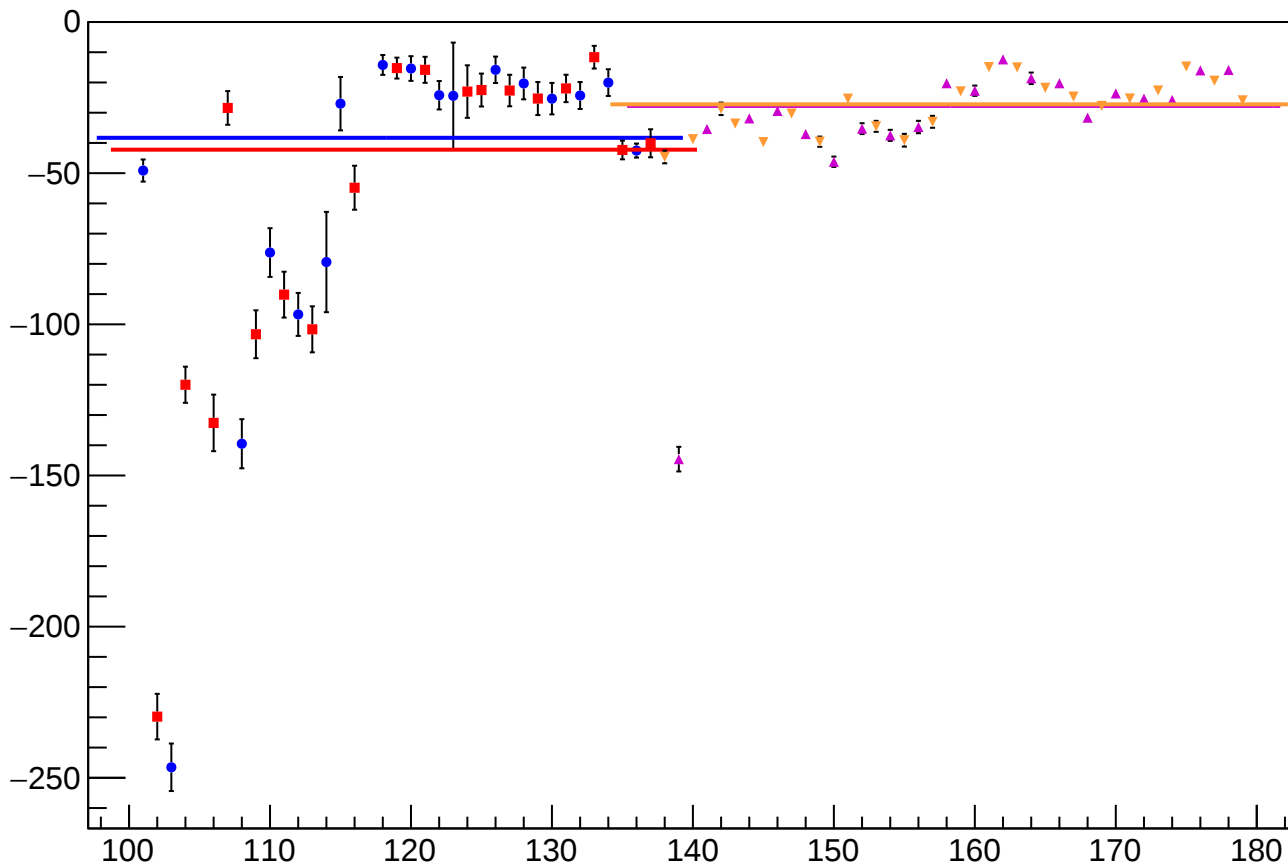
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -39.418+/-0.462  $\chi^2/\text{NDF}$ :500.3/19

Out: -41.610+/-0.448  $\chi^2/\text{NDF}$ :496.4/21

All: -40.547+/-0.322  $\chi^2/\text{NDF}$ : 1008.2/41

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-38.304 \pm 1.138$   $\chi^2/\text{NDF}: 1132.8/16$

Left Out:  $-27.230 \pm 0.343$   $\chi^2/\text{NDF}: 585.5/21$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

Left In:  $-27.751 \pm 0.357$   $\chi^2/\text{NDF}: 1409.7/19$

Left:  $-27.480 \pm 0.248$   $\chi^2/\text{NDF}: 1996.3/41$

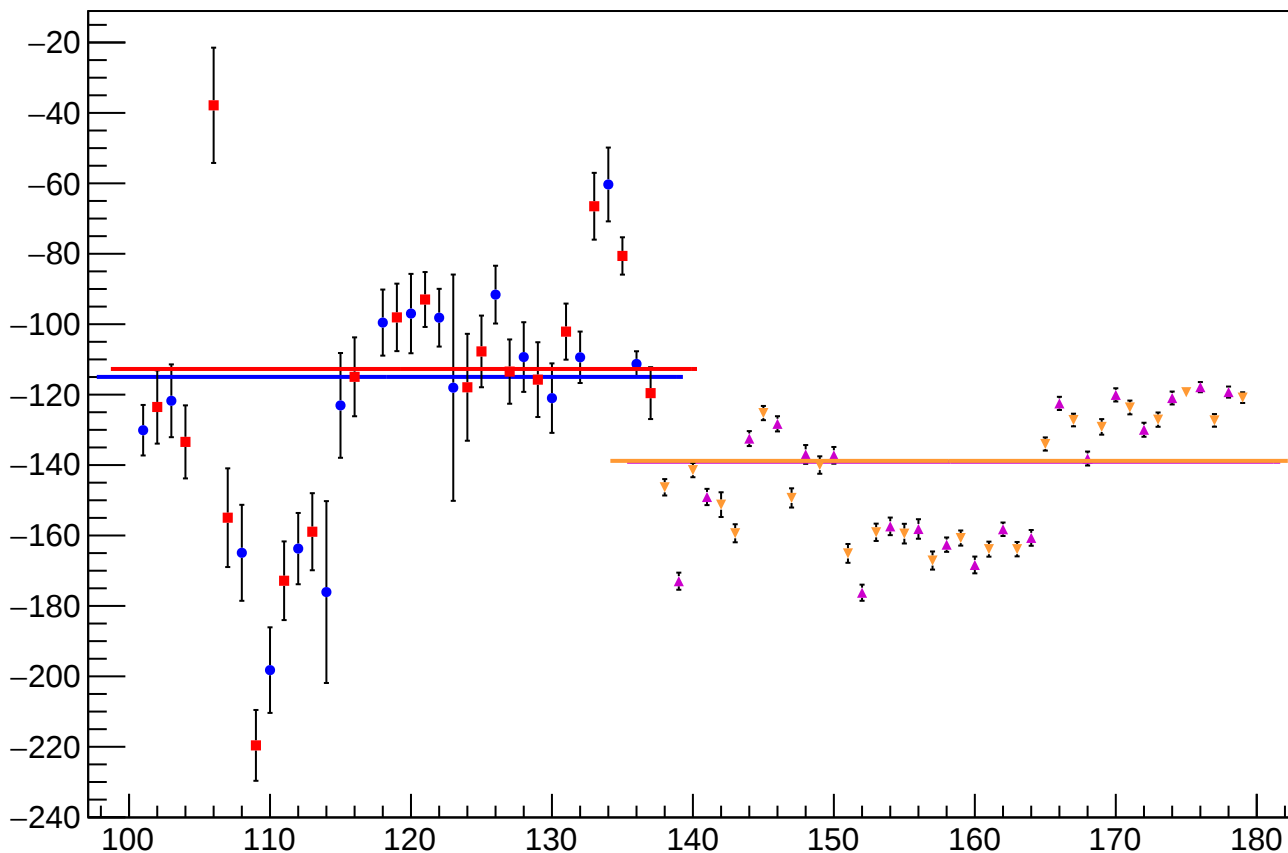
Right:  $-40.148 \pm 0.829$   $\chi^2/\text{NDF}: 2416.5/34$

In:  $-28.699 \pm 0.341$   $\chi^2/\text{NDF}: 2620.7/36$

Out:  $-28.347 \pm 0.330$   $\chi^2/\text{NDF}: 2006.0/39$

All:  $-28.517 \pm 0.237$   $\chi^2/\text{NDF}: 4627.2/76$

reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}: 141.4/16$

Left Out:  $-138.809 \pm 0.447$   $\chi^2/\text{NDF}: 1410.9/21$

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}: 267.1/17$

Left In:  $-139.052 \pm 0.460$   $\chi^2/\text{NDF}: 1763.8/19$

Left:  $-138.927 \pm 0.320$   $\chi^2/\text{NDF}: 3174.9/41$

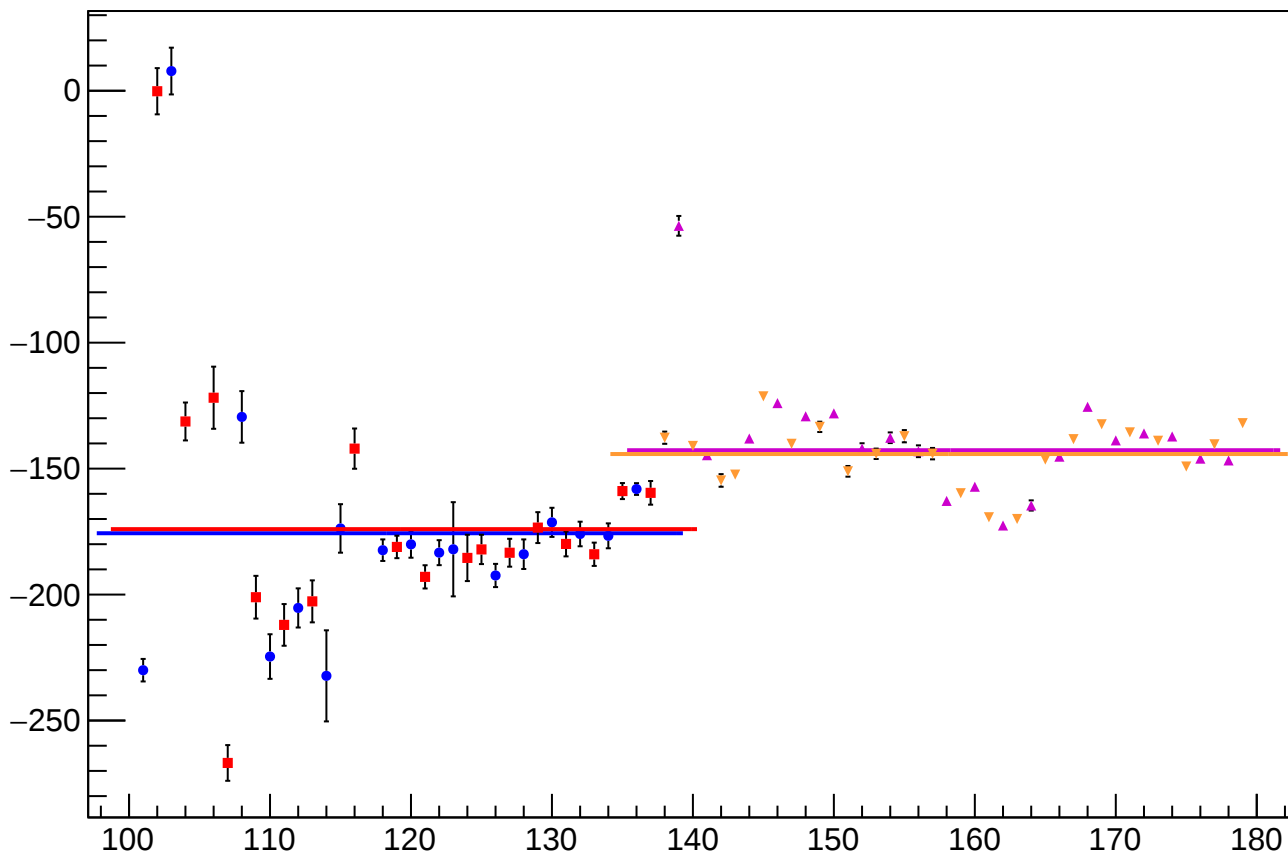
Right:  $-113.912 \pm 1.513$   $\chi^2/\text{NDF}: 409.1/34$

In:  $-137.925 \pm 0.449$   $\chi^2/\text{NDF}: 2033.7/36$

Out:  $-137.783 \pm 0.438$   $\chi^2/\text{NDF}: 1812.0/39$

All:  $-137.853 \pm 0.313$   $\chi^2/\text{NDF}: 3845.7/76$

reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-144.209 \pm 0.388$   $\chi^2/\text{NDF}$ : 987.6/21

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

Left In:  $-142.694 \pm 0.402$   $\chi^2/\text{NDF}$ : 1539.3/19

Left:  $-143.479 \pm 0.279$   $\chi^2/\text{NDF}$ : 2534.3/41

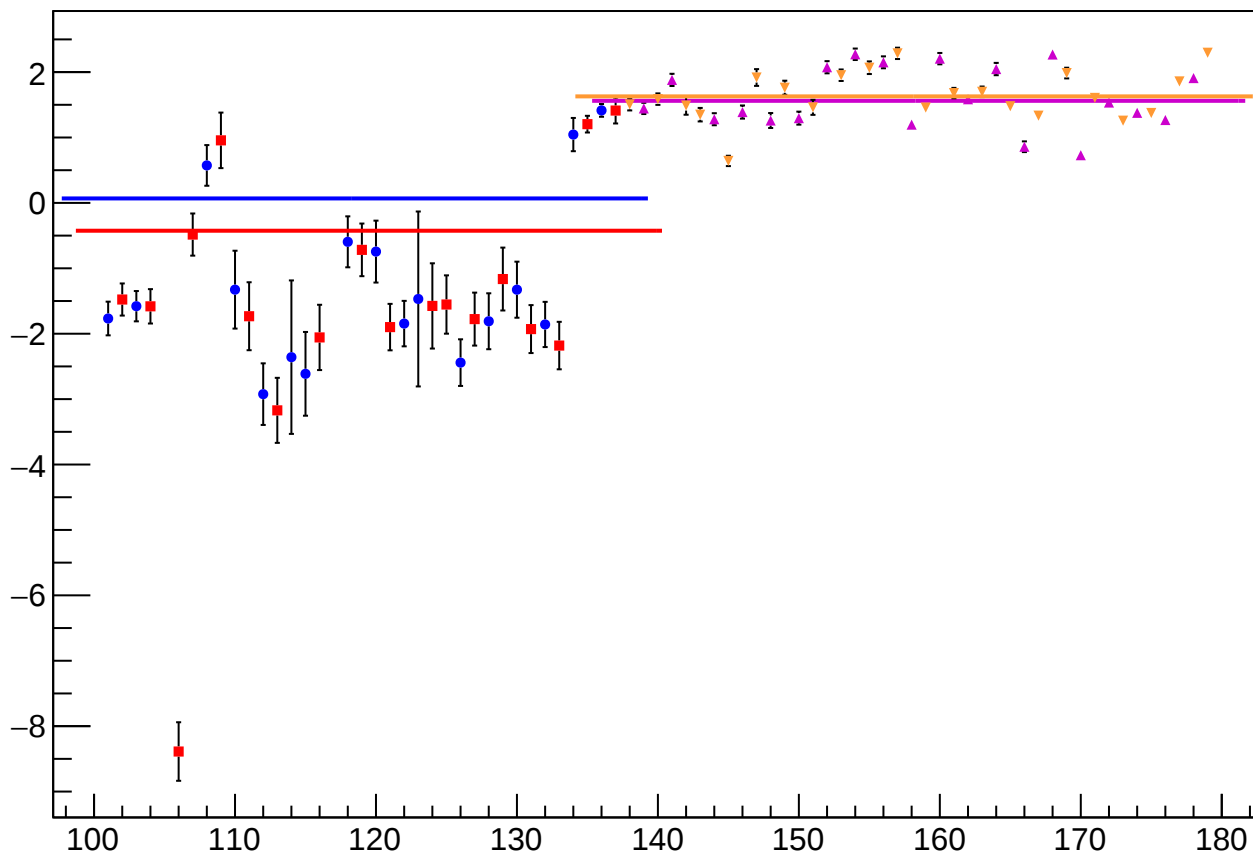
Right:  $-174.891 \pm 0.926$   $\chi^2/\text{NDF}$ : 1396.3/34

In:  $-145.702 \pm 0.383$   $\chi^2/\text{NDF}$ : 2844.2/36

Out:  $-146.463 \pm 0.373$   $\chi^2/\text{NDF}$ : 2138.6/39

All:  $-146.093 \pm 0.267$   $\chi^2/\text{NDF}$ : 4984.8/76

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.067  $\chi^2$ /NDF: 525.9/16

Left Out: 1.629 $\pm$ 0.018  $\chi^2$ /NDF:451.6/21

Right Out: -0.425 $\pm$ 0.071  $\chi^2$ /NDF: 742.9/17

Left In: 1.561 $\pm$ 0.018  $\chi^2$ /NDF:645.5/19

Left: 1.595 $\pm$ 0.013  $\chi^2$ /NDF: 1104.2/41

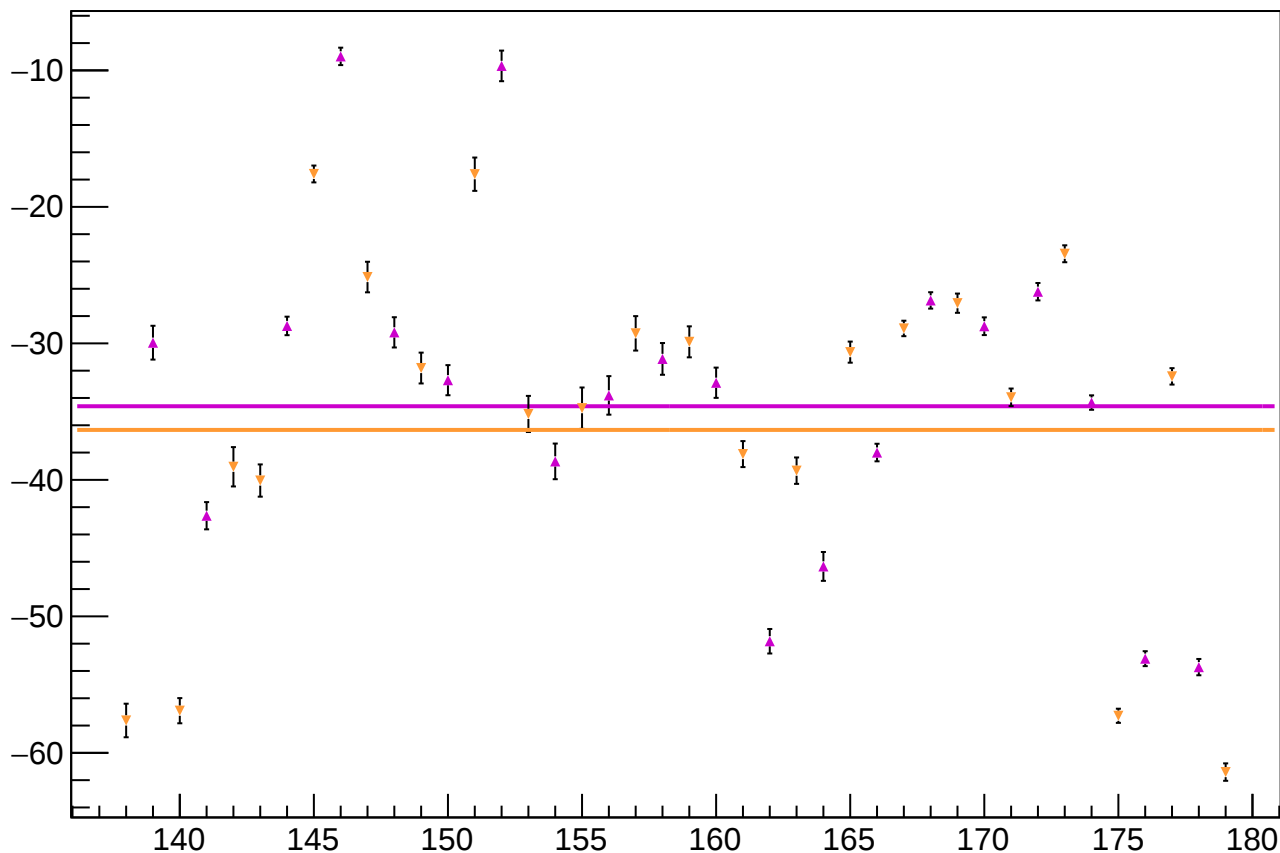
Right: -0.163 $\pm$ 0.049  $\chi^2$ /NDF: 1294.2/34

In: 1.458 $\pm$ 0.018  $\chi^2$ /NDF:1633.4/36

Out: 1.507 $\pm$ 0.017  $\chi^2$ /NDF:1976.6/39

All: 1.483 $\pm$ 0.012  $\chi^2$ /NDF: 3614.0/76

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: -36.340+/-0.173  $\chi^2/\text{NDF}$ :6223.3/21

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

Left In: -34.606+/-0.173  $\chi^2/\text{NDF}$ :5416.4/19

Left: -35.473+/-0.123  $\chi^2/\text{NDF}$ : 11689.7/41

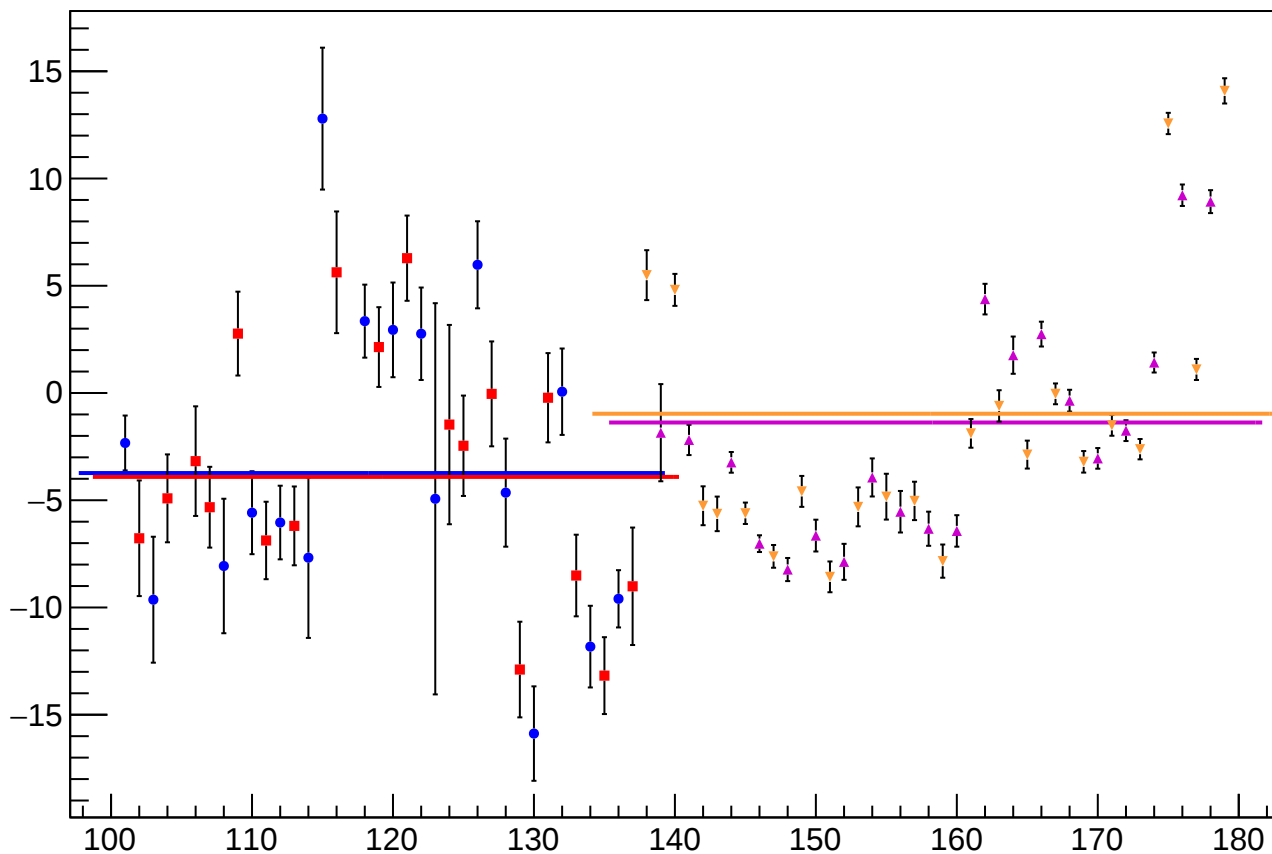
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.606+/-0.173  $\chi^2/\text{NDF}$ :5416.4/19

Out: -36.340+/-0.173  $\chi^2/\text{NDF}$ :6223.3/21

All: -35.473+/-0.123  $\chi^2/\text{NDF}$ : 11689.7/41

reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.732 \pm 0.496$   $\chi^2/\text{NDF}: 165.8/16$

Left Out:  $-0.967 \pm 0.133$   $\chi^2/\text{NDF}: 2125.5/21$

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}: 124.8/17$

Left In:  $-1.376 \pm 0.133$   $\chi^2/\text{NDF}: 1610.9/19$

Left:  $-1.172 \pm 0.094$   $\chi^2/\text{NDF}: 3741.1/41$

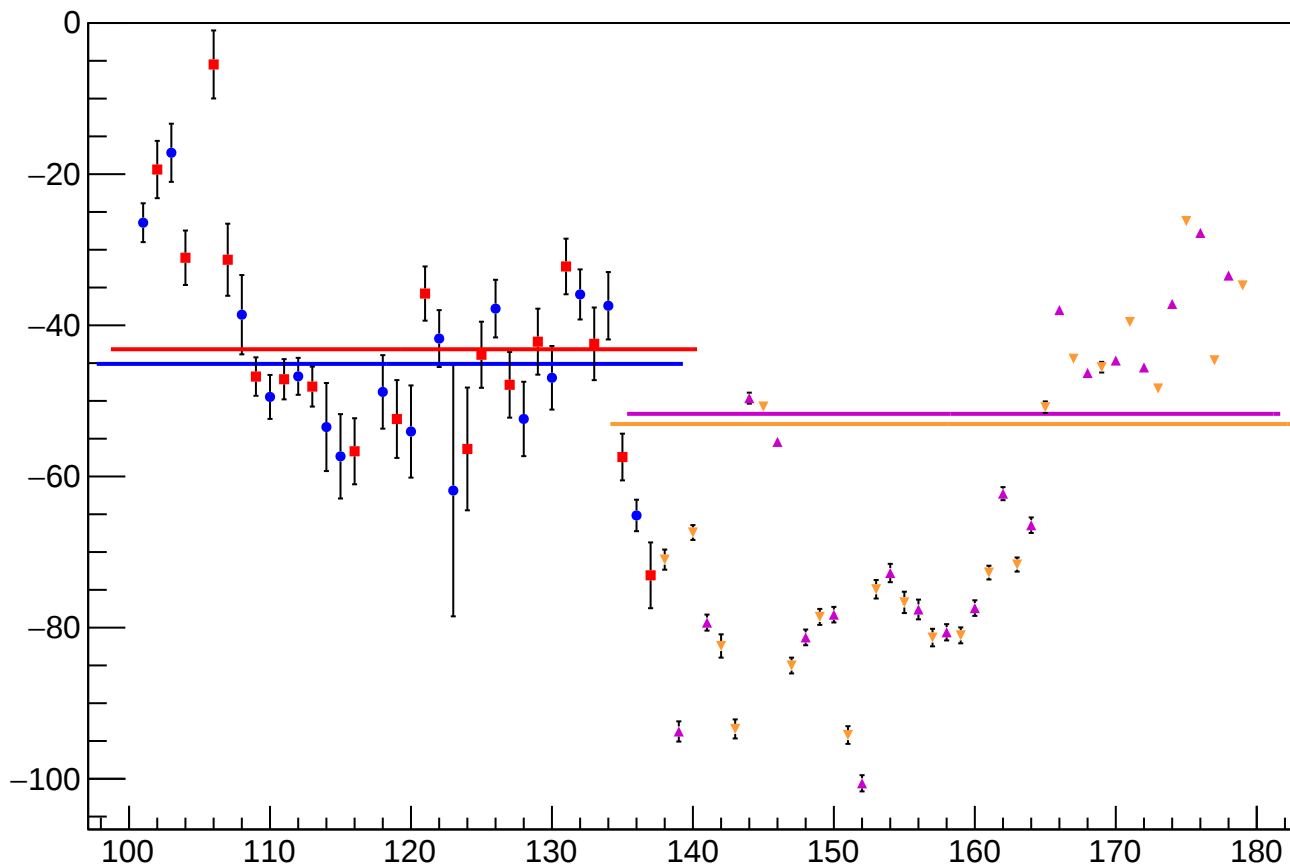
Right:  $-3.820 \pm 0.354$   $\chi^2/\text{NDF}: 290.7/34$

In:  $-1.535 \pm 0.129$   $\chi^2/\text{NDF}: 1797.8/36$

Out:  $-1.158 \pm 0.129$   $\chi^2/\text{NDF}: 2281.8/39$

All:  $-1.347 \pm 0.091$   $\chi^2/\text{NDF}: 4083.9/76$

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -45.102 $\pm$ 0.883  $\chi^2$ /NDF: 230.6/16

Left Out: -53.058 $\pm$ 0.174  $\chi^2$ /NDF:11848.0/21

Right Out: -43.167 $\pm$ 0.879  $\chi^2$ /NDF: 232.9/17

Left In: -51.711 $\pm$ 0.174  $\chi^2$ /NDF:11926.6/19

Left: -52.385 $\pm$ 0.123  $\chi^2$ /NDF: 23804.6/41

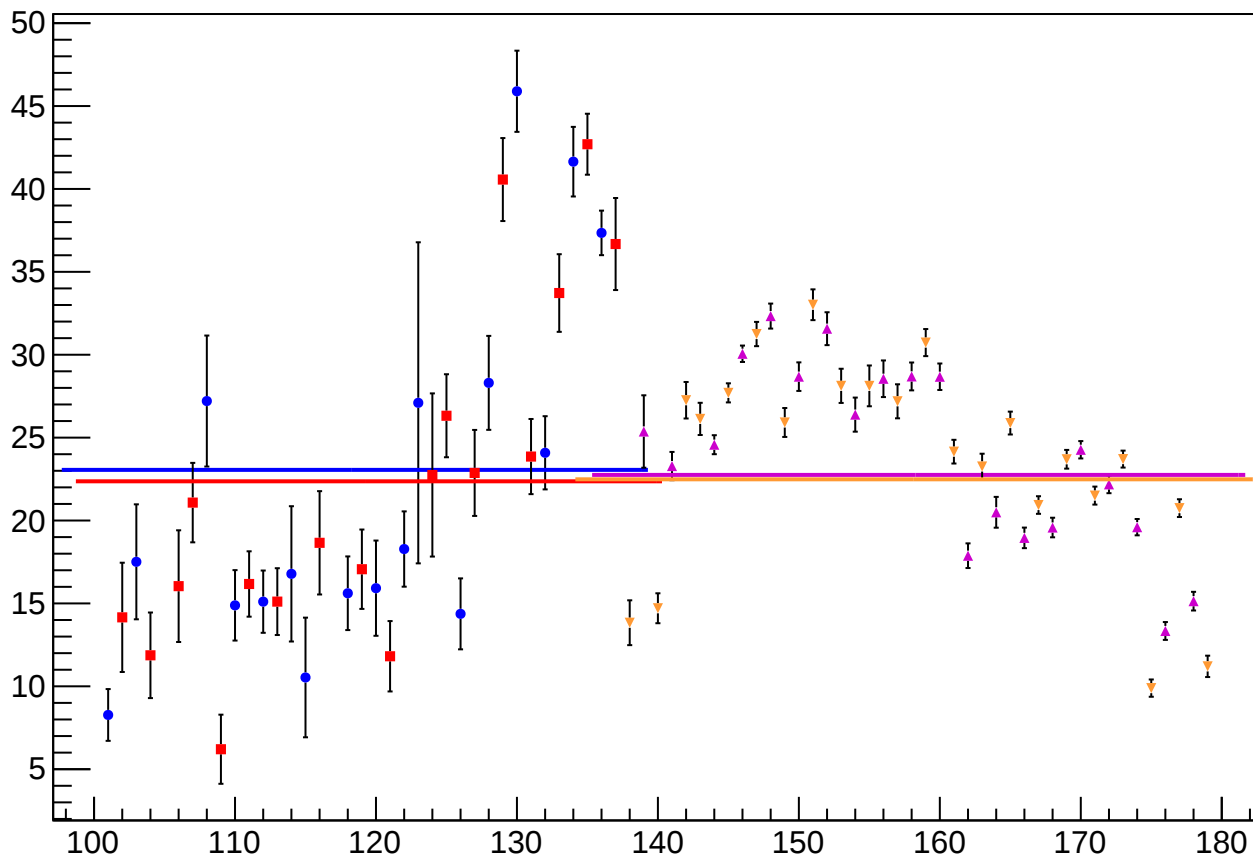
Right: -44.131 $\pm$ 0.623  $\chi^2$ /NDF: 465.9/34

In: -51.464 $\pm$ 0.170  $\chi^2$ /NDF:12211.1/36

Out: -52.687 $\pm$ 0.170  $\chi^2$ /NDF:12202.7/39

All: -52.076 $\pm$ 0.121  $\chi^2$ /NDF: 24439.6/76

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 22.485 $\pm$ 0.150  $\chi^2$ /NDF:1643.9/21

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

Left In: 22.752 $\pm$ 0.151  $\chi^2$ /NDF:1317.0/19

Left: 22.618 $\pm$ 0.106  $\chi^2$ /NDF: 2962.5/41

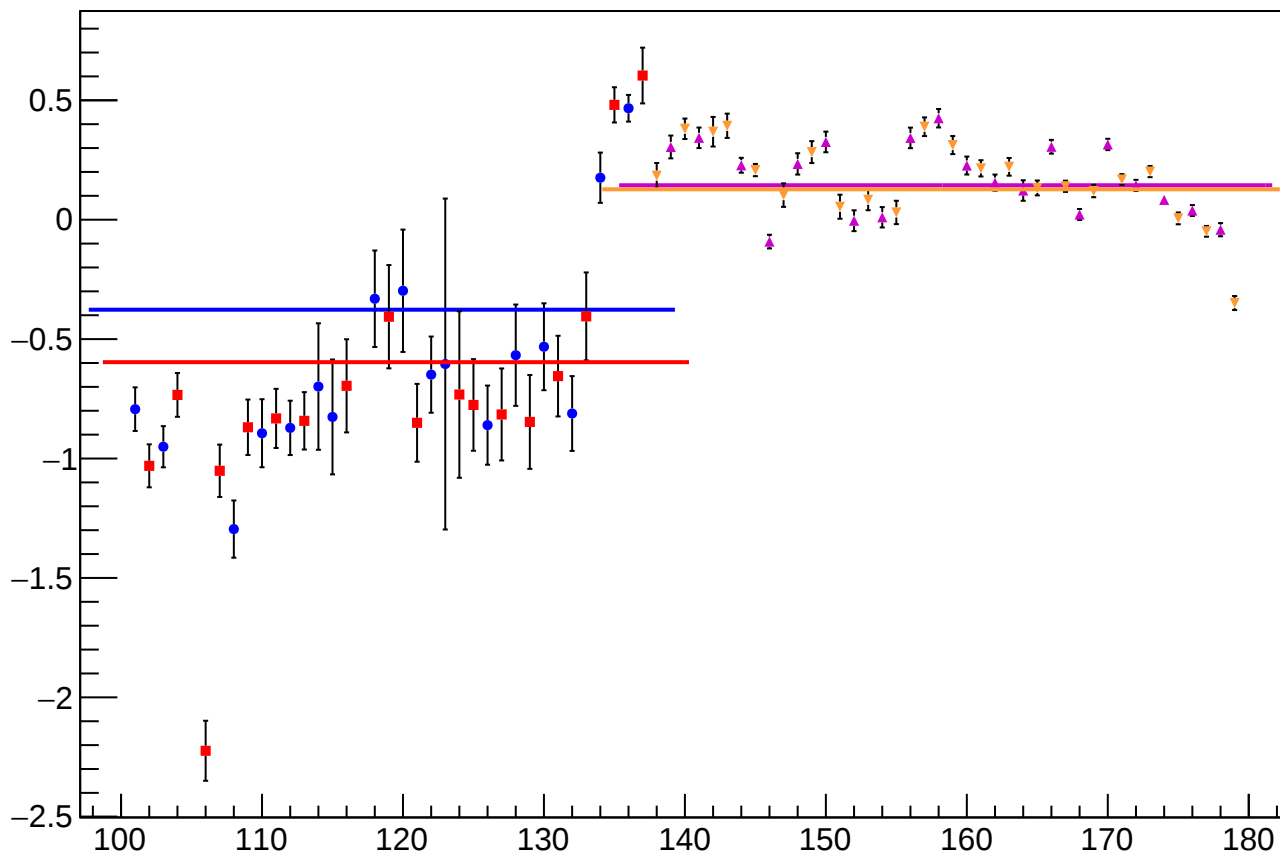
Right: 22.720 $\pm$ 0.399  $\chi^2$ /NDF: 830.6/34

In: 22.773 $\pm$ 0.146  $\chi^2$ /NDF:1778.4/36

Out: 22.478 $\pm$ 0.145  $\chi^2$ /NDF:2012.7/39

All: 22.625 $\pm$ 0.103  $\chi^2$ /NDF: 3793.2/76

reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}$ : 437.4/16

Left Out:  $0.127 \pm 0.007$   $\chi^2/\text{NDF}$ : 550.2/21

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}$ : 551.3/17

Left In:  $0.144 \pm 0.007$   $\chi^2/\text{NDF}$ : 416.5/19

Left:  $0.136 \pm 0.005$   $\chi^2/\text{NDF}$ : 969.8/41

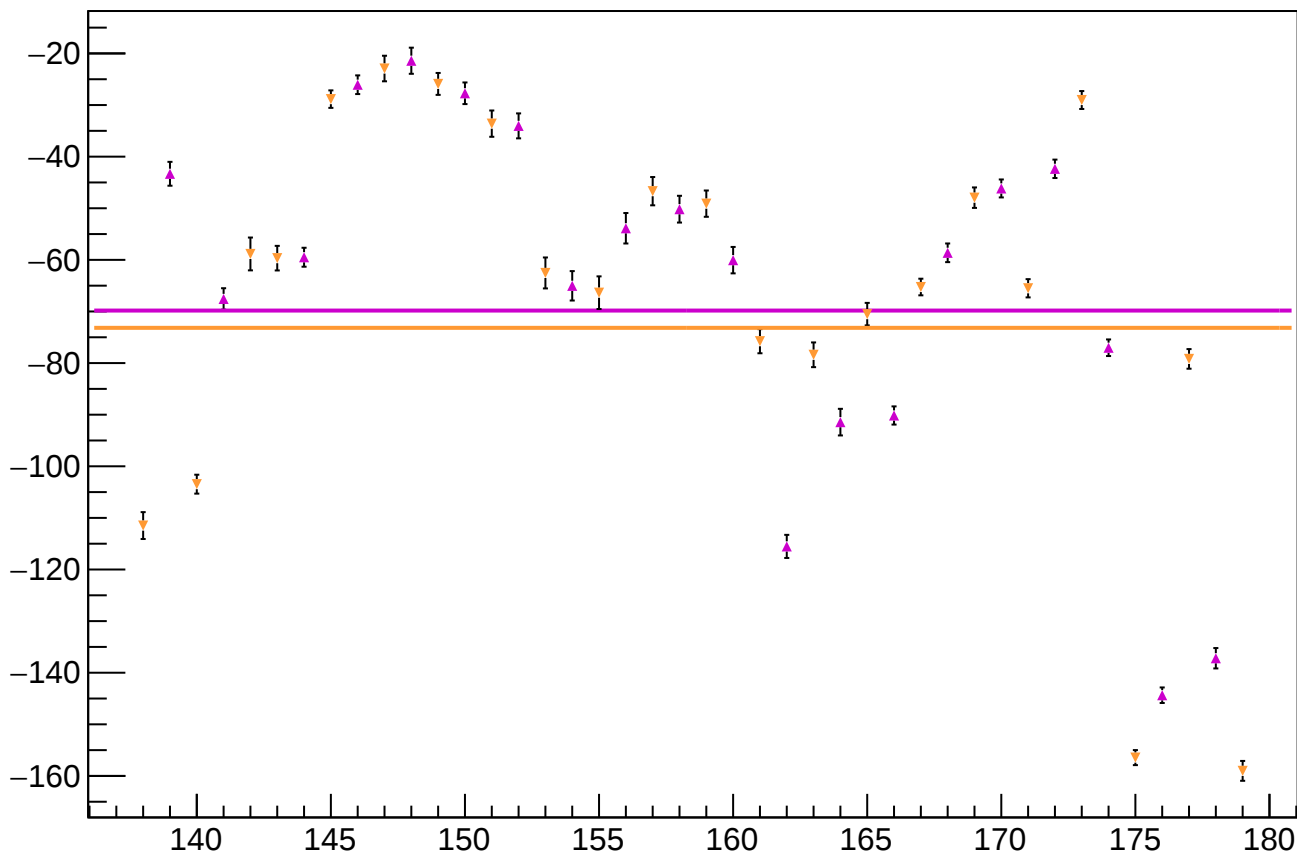
Right:  $-0.486 \pm 0.021$   $\chi^2/\text{NDF}$ : 1015.2/34

In:  $0.118 \pm 0.007$   $\chi^2/\text{NDF}$ : 1138.6/36

Out:  $0.092 \pm 0.007$   $\chi^2/\text{NDF}$ : 1646.0/39

All:  $0.105 \pm 0.005$   $\chi^2/\text{NDF}$ : 2792.4/76

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



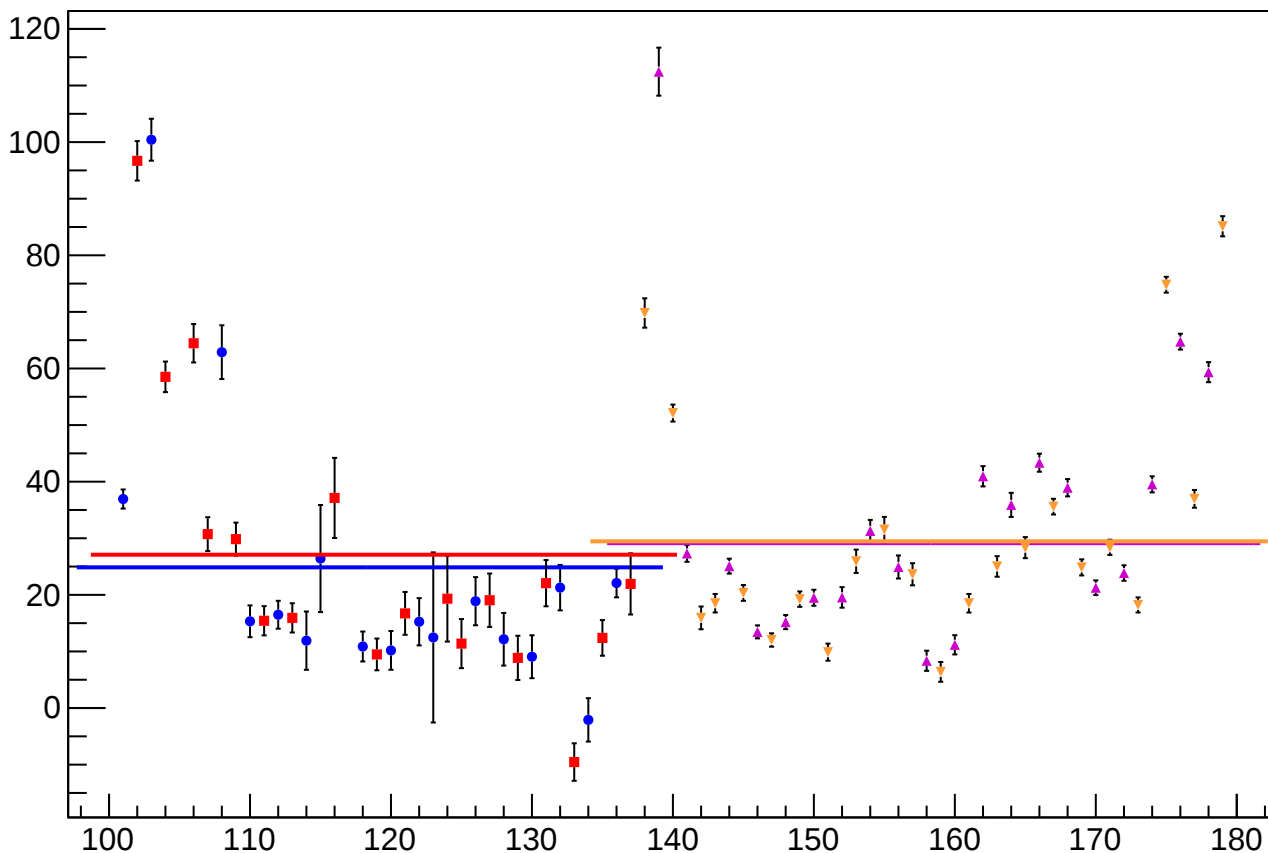
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -73.171+/-0.448  $\chi^2/\text{NDF}$ : 8705.0/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -69.823+/-0.455  $\chi^2/\text{NDF}$ : 6556.5/19

Left: -71.525+/-0.319  $\chi^2/\text{NDF}$ : 15289.0/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -69.823+/-0.455  $\chi^2/\text{NDF}$ : 6556.5/19  
 Out: -73.171+/-0.448  $\chi^2/\text{NDF}$ : 8705.0/21

All: -71.525+/-0.319  $\chi^2/\text{NDF}$ : 15289.0/41

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 24.863 $\pm$ 0.802  $\chi^2$ /NDF: 691.0/16

Left Out: 29.461 $\pm$ 0.338  $\chi^2$ /NDF:3434.7/21

Right Out: 27.093 $\pm$ 0.812  $\chi^2$ /NDF: 930.9/17

Left In: 29.136 $\pm$ 0.348  $\chi^2$ /NDF:2250.8/19

Left: 29.303 $\pm$ 0.242  $\chi^2$ /NDF: 5685.9/41

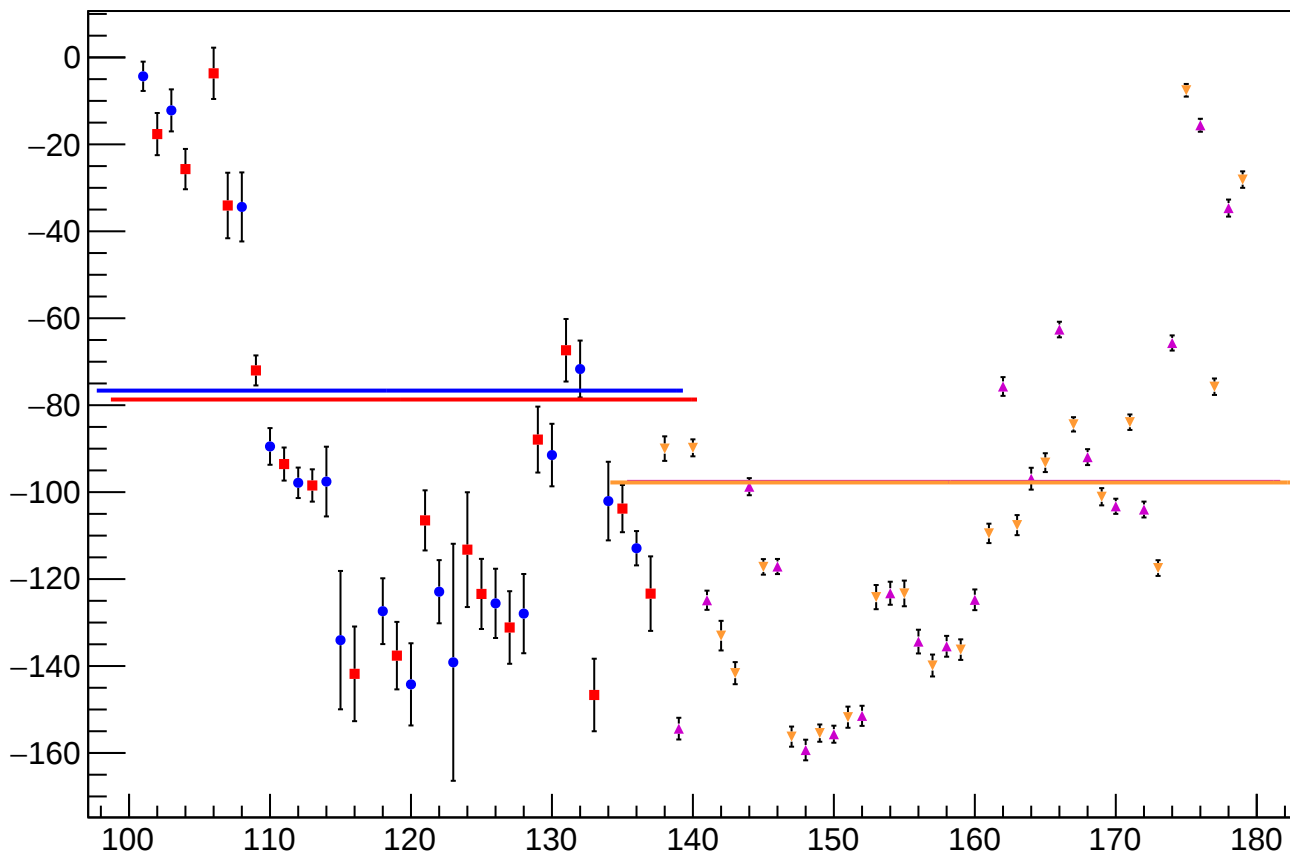
Right: 25.964 $\pm$ 0.570  $\chi^2$ /NDF: 1625.8/34

In: 28.459 $\pm$ 0.319  $\chi^2$ /NDF:2965.7/36

Out: 29.112 $\pm$ 0.312  $\chi^2$ /NDF:4372.8/39

All: 28.793 $\pm$ 0.223  $\chi^2$ /NDF: 7340.7/76

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -76.641 $\pm$ 1.415  $\chi^2$ /NDF: 1040.7/16

Left Out: -97.774 $\pm$ 0.447  $\chi^2$ /NDF: 8853.2/21

Right Out: -78.695 $\pm$ 1.360  $\chi^2$ /NDF: 836.5/17

Left In: -97.641 $\pm$ 0.454  $\chi^2$ /NDF: 8457.3/19

Left: -97.708 $\pm$ 0.318  $\chi^2$ /NDF: 17310.5/41

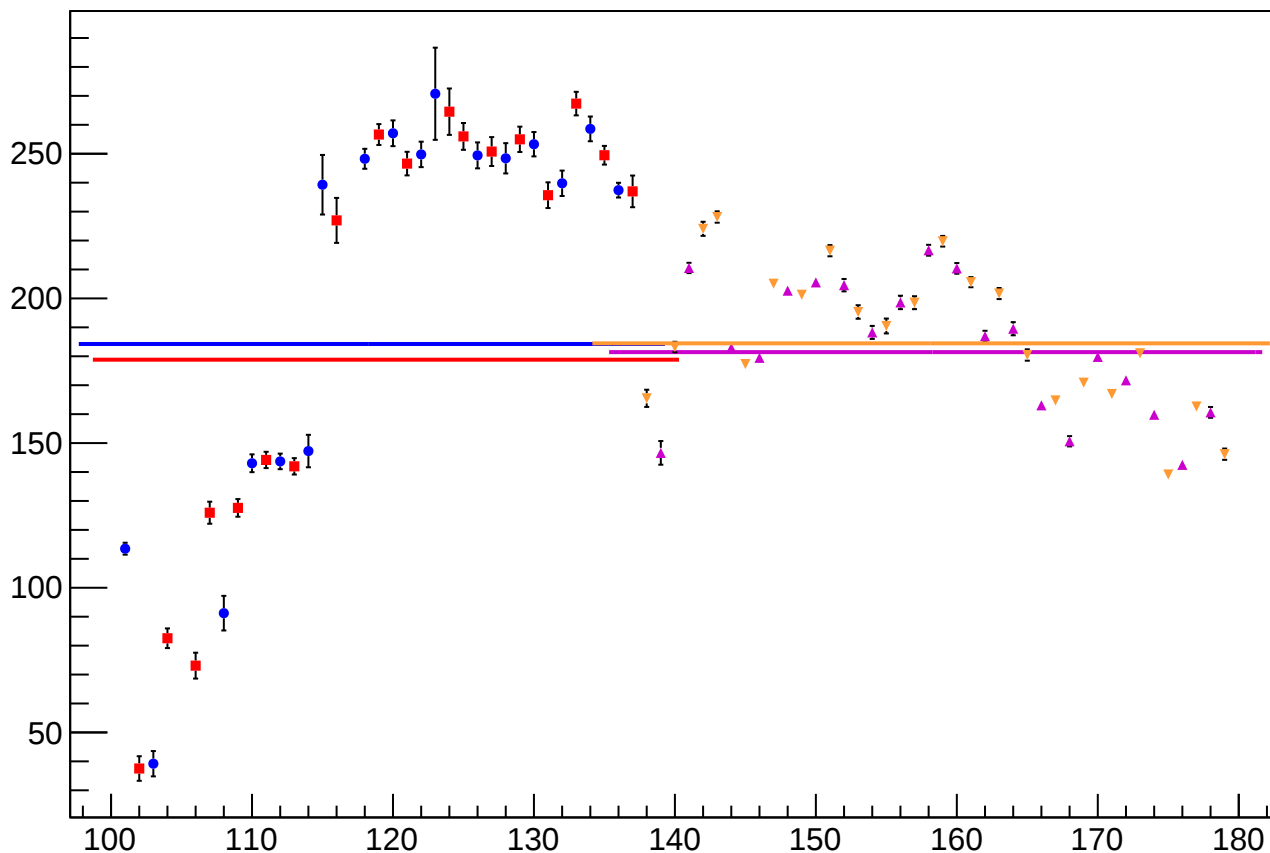
Right: -77.709 $\pm$ 0.980  $\chi^2$ /NDF: 1878.3/34

In: -95.682 $\pm$ 0.432  $\chi^2$ /NDF: 9697.8/36

Out: -95.913 $\pm$ 0.425  $\chi^2$ /NDF: 9867.3/39

All: -95.800 $\pm$ 0.303  $\chi^2$ /NDF: 19565.2/76

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $184.246 \pm 0.915$   $\chi^2/\text{NDF}$ : 5388.6/16

Left Out:  $184.464 \pm 0.384$   $\chi^2/\text{NDF}$ : 3909.1/21

Right Out:  $178.822 \pm 0.926$   $\chi^2/\text{NDF}$ : 6171.0/17

Left In:  $181.438 \pm 0.395$   $\chi^2/\text{NDF}$ : 2971.4/19

Left:  $182.991 \pm 0.275$   $\chi^2/\text{NDF}$ : 6910.7/41

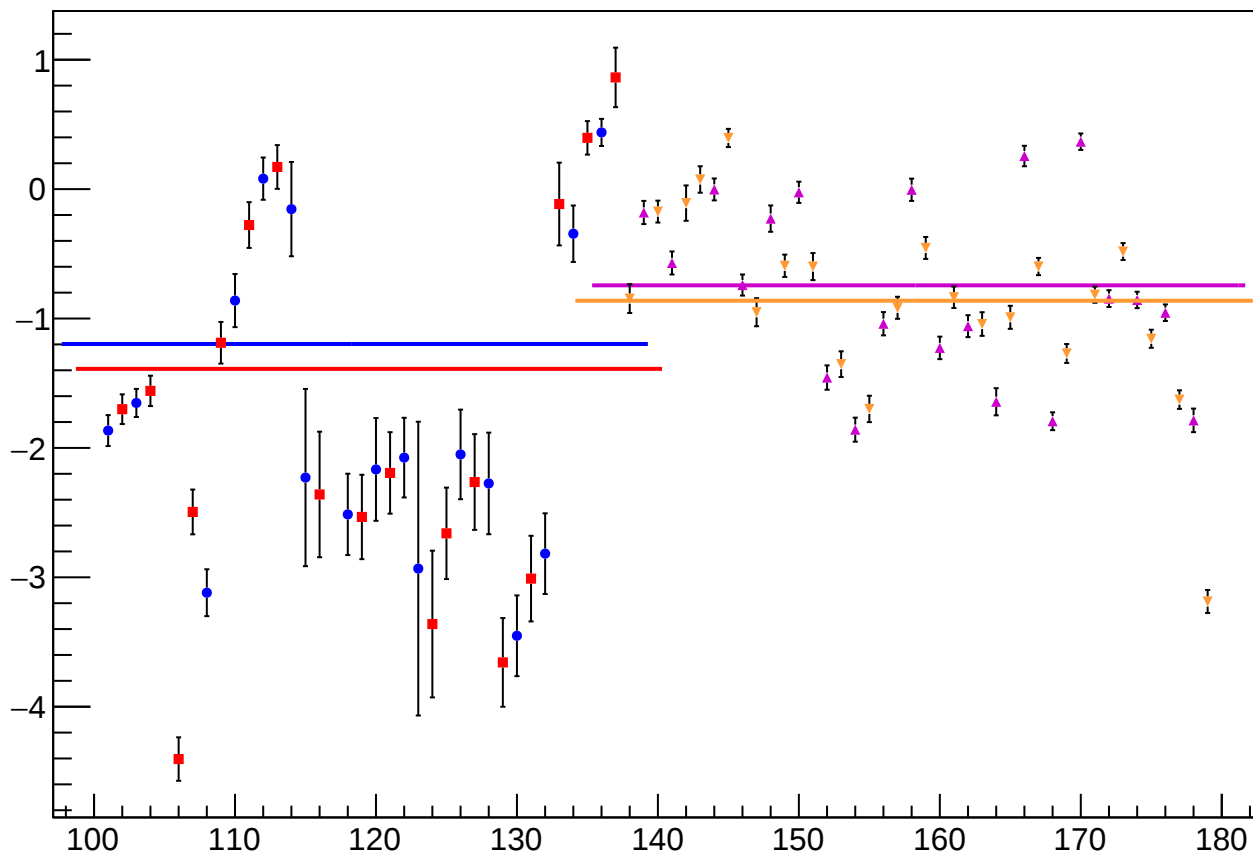
Right:  $181.565 \pm 0.651$   $\chi^2/\text{NDF}$ : 11576.9/34

In:  $181.878 \pm 0.362$   $\chi^2/\text{NDF}$ : 8367.9/36

Out:  $183.635 \pm 0.355$   $\chi^2/\text{NDF}$ : 10111.7/39

All:  $182.774 \pm 0.254$   $\chi^2/\text{NDF}$ : 18491.6/76

reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.862 \pm 0.018$   $\chi^2/\text{NDF}$ : 1537.0/21

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

Left In:  $-0.744 \pm 0.018$   $\chi^2/\text{NDF}$ : 1472.0/19

Left:  $-0.804 \pm 0.013$   $\chi^2/\text{NDF}$ : 3031.2/41

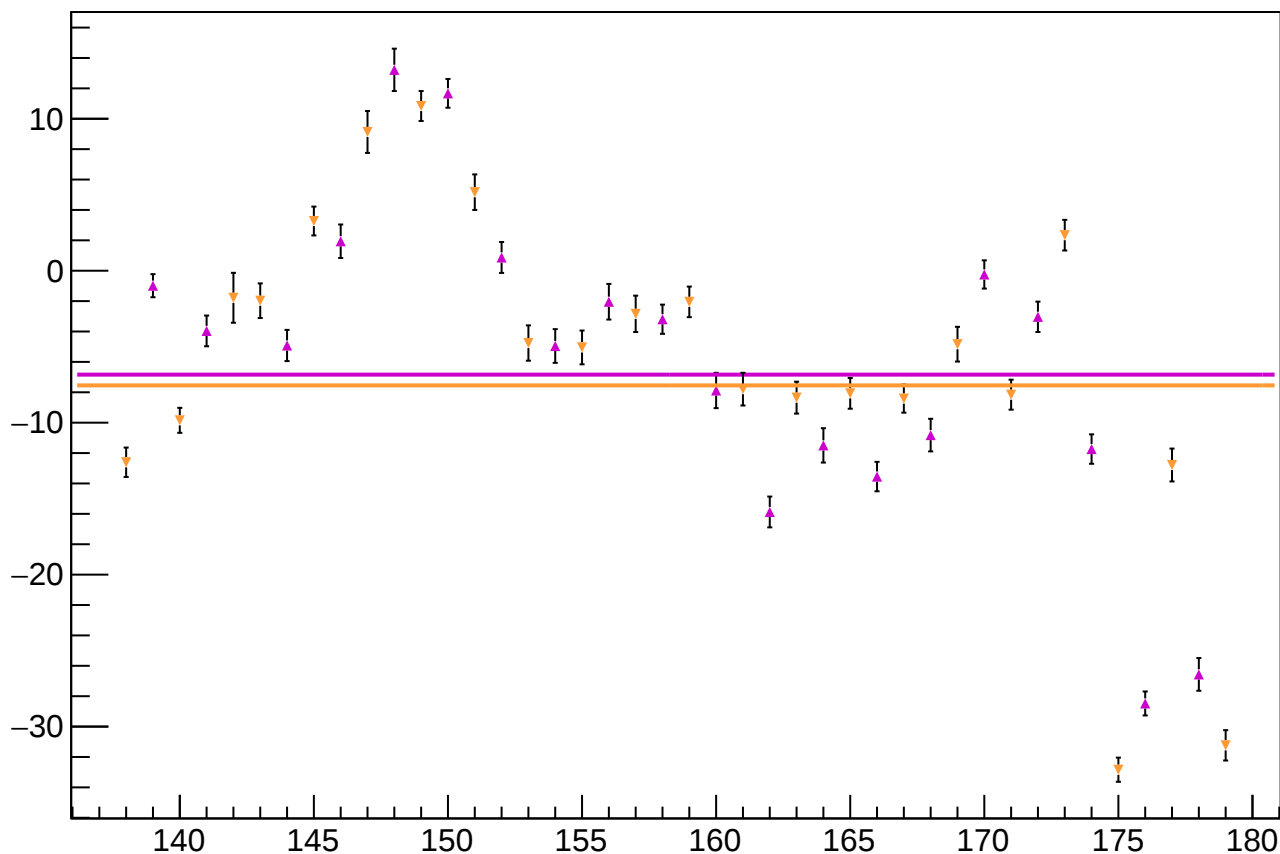
Right:  $-1.297 \pm 0.033$   $\chi^2/\text{NDF}$ : 1552.0/34

In:  $-0.799 \pm 0.017$   $\chi^2/\text{NDF}$ : 2171.4/36

Out:  $-0.931 \pm 0.017$   $\chi^2/\text{NDF}$ : 2573.0/39

All:  $-0.866 \pm 0.012$   $\chi^2/\text{NDF}$ : 4775.5/76

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: -7.548+/-0.221  $\chi^2/\text{NDF}$ :2573.6/21

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

Left In: -6.838+/-0.225  $\chi^2/\text{NDF}$ :2151.5/19

Left: -7.199+/-0.158  $\chi^2/\text{NDF}$ : 4730.2/41

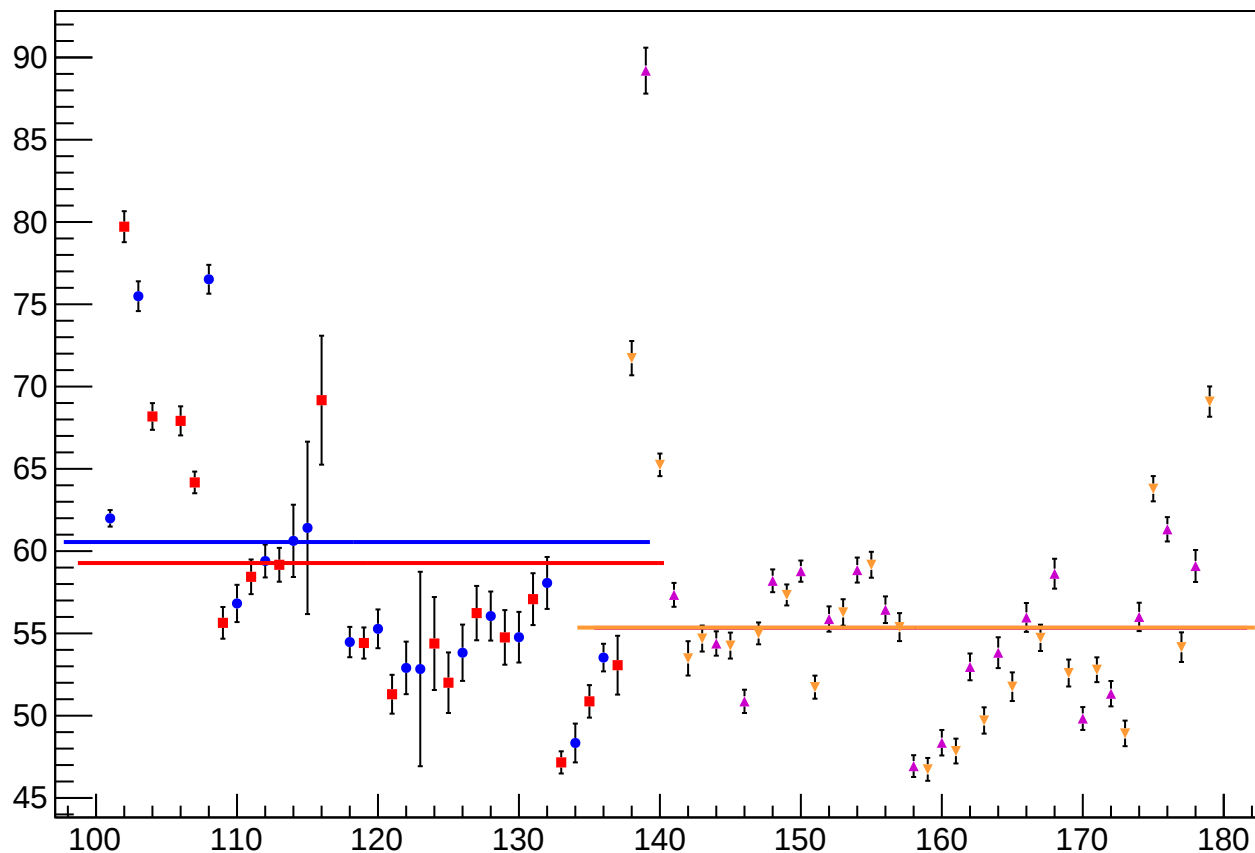
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.838+/-0.225  $\chi^2/\text{NDF}$ :2151.5/19

Out: -7.548+/-0.221  $\chi^2/\text{NDF}$ :2573.6/21

All: -7.199+/-0.158  $\chi^2/\text{NDF}$ : 4730.2/41

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $60.552 \pm 0.262$   $\chi^2/\text{NDF}$ : 931.0/16

Left Out:  $55.354 \pm 0.167$   $\chi^2/\text{NDF}$ : 1279.9/21

Right Out:  $59.276 \pm 0.249$   $\chi^2/\text{NDF}$ : 1274.8/17

Left In:  $55.334 \pm 0.175$   $\chi^2/\text{NDF}$ : 1144.2/19

Left:  $55.344 \pm 0.121$   $\chi^2/\text{NDF}$ : 2424.1/41

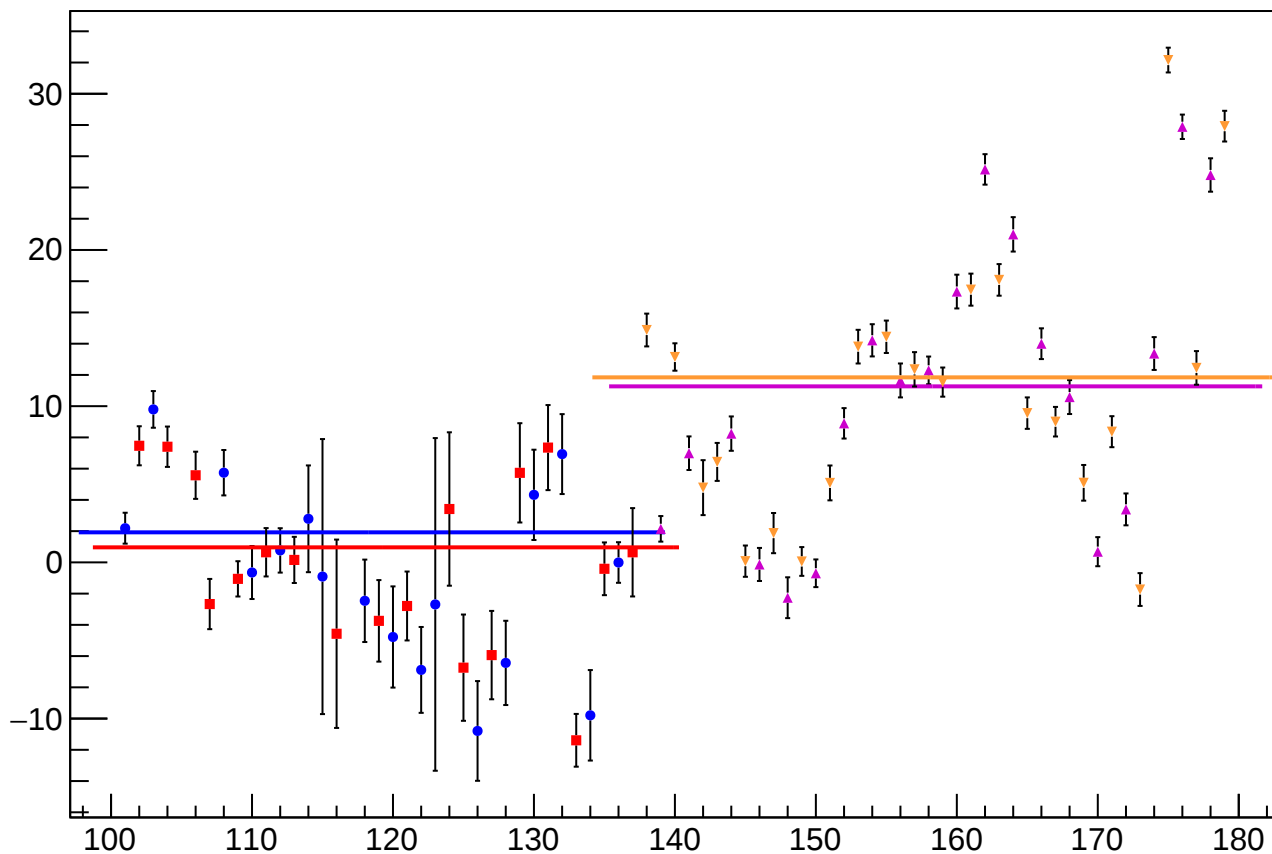
Right:  $59.882 \pm 0.180$   $\chi^2/\text{NDF}$ : 2218.3/34

In:  $56.942 \pm 0.145$   $\chi^2/\text{NDF}$ : 2350.1/36

Out:  $56.573 \pm 0.139$   $\chi^2/\text{NDF}$ : 2725.9/39

All:  $56.749 \pm 0.100$   $\chi^2/\text{NDF}$ : 5079.3/76

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}$ : 121.1/16

Left Out:  $11.844 \pm 0.219$   $\chi^2/\text{NDF}$ : 1674.9/21

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}$ : 150.1/17

Left In:  $11.269 \pm 0.223$   $\chi^2/\text{NDF}$ : 1694.7/19

Left:  $11.561 \pm 0.156$   $\chi^2/\text{NDF}$ : 3373.0/41

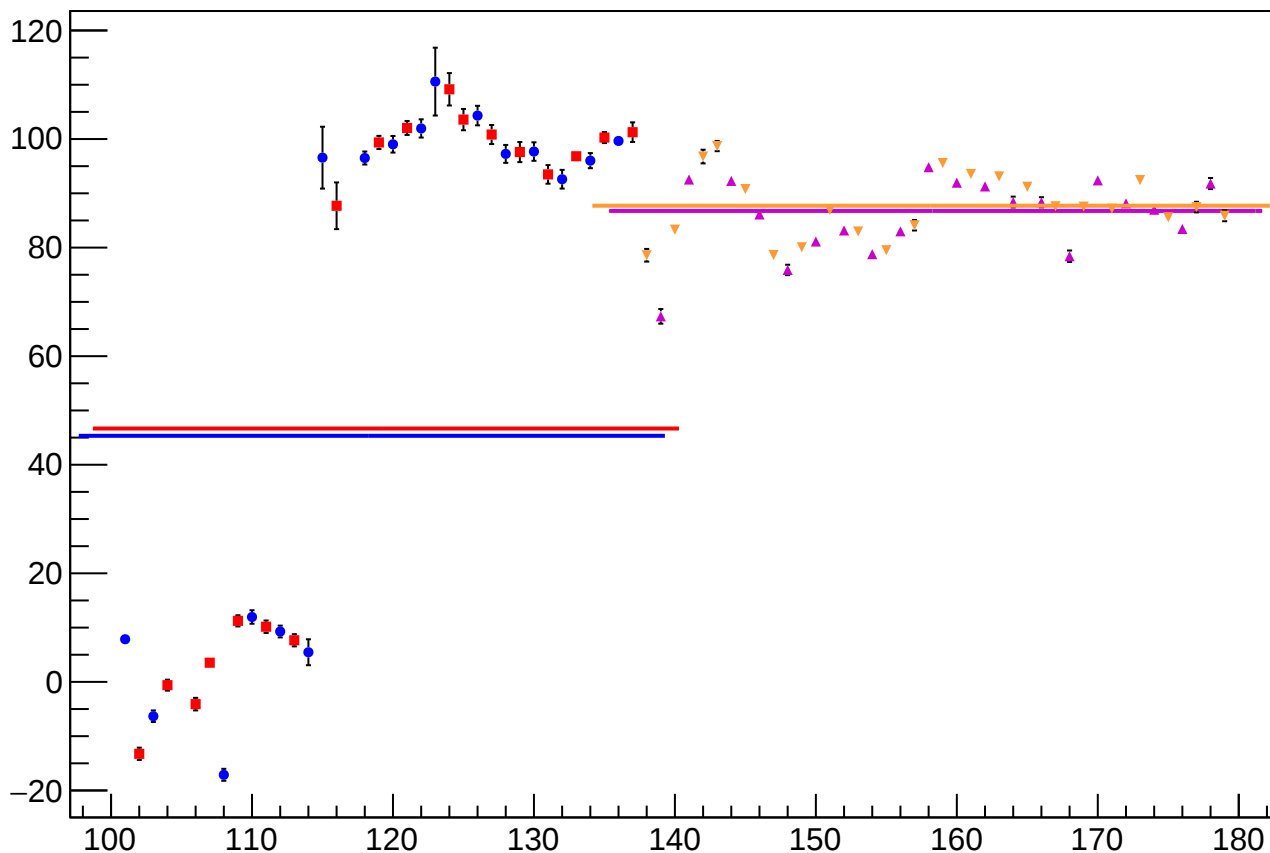
Right:  $1.411 \pm 0.313$   $\chi^2/\text{NDF}$ : 273.5/34

In:  $9.485 \pm 0.200$   $\chi^2/\text{NDF}$ : 2152.3/36

Out:  $9.593 \pm 0.195$   $\chi^2/\text{NDF}$ : 2333.7/39

All:  $9.540 \pm 0.140$   $\chi^2/\text{NDF}$ : 4486.2/76

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 87.717 $\pm$ 0.190  $\chi^2$ /NDF:880.3/21

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

Left In: 86.756 $\pm$ 0.196  $\chi^2$ /NDF:962.3/19

Left: 87.254 $\pm$ 0.136  $\chi^2$ /NDF: 1855.0/41

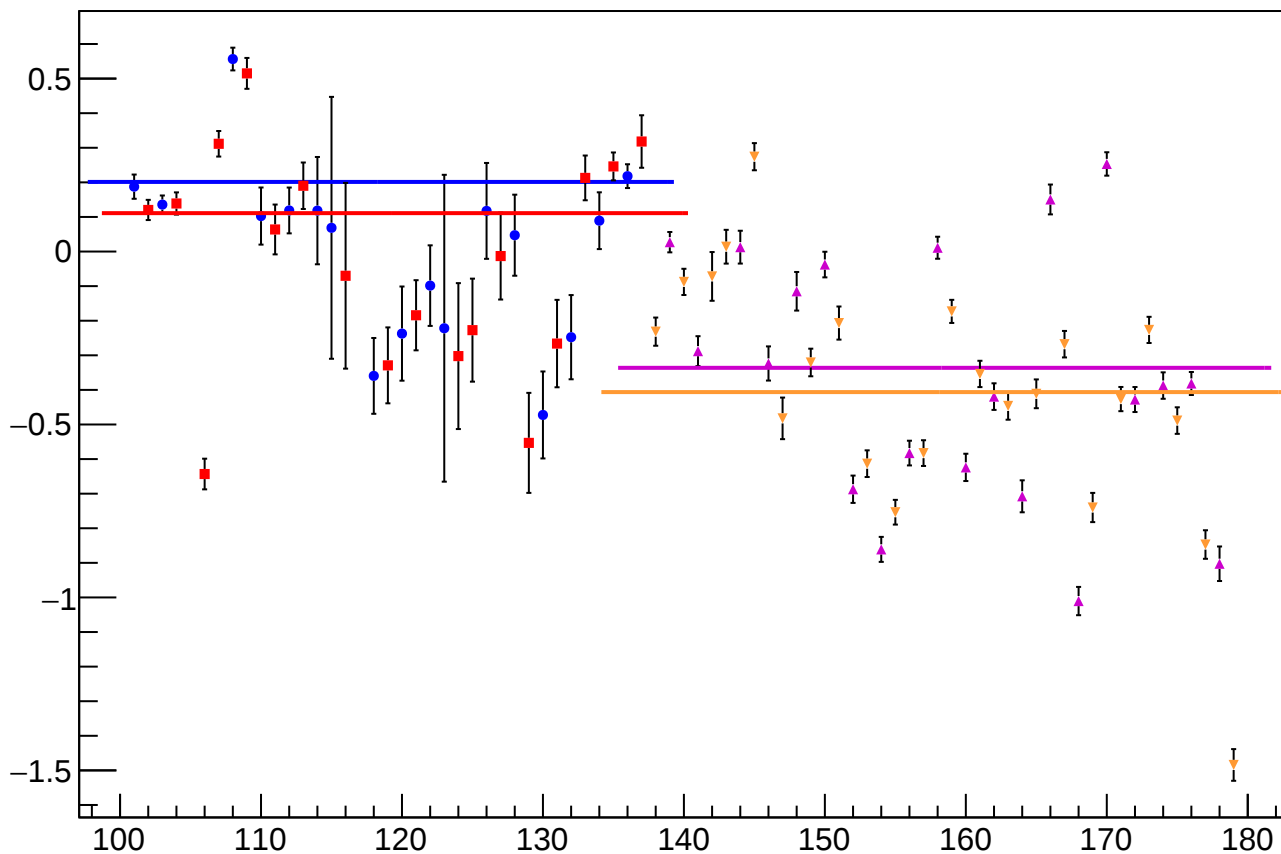
Right: 46.031 $\pm$ 0.210  $\chi^2$ /NDF: 52913.9/34

In: 74.531 $\pm$ 0.165  $\chi^2$ /NDF:39092.7/36

Out: 75.469 $\pm$ 0.159  $\chi^2$ /NDF:42756.9/39

All: 75.017 $\pm$ 0.114  $\chi^2$ /NDF: 81866.4/76

reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.406 \pm 0.009$   $\chi^2/\text{NDF}$ : 1477.9/21

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

Left In:  $-0.336 \pm 0.009$   $\chi^2/\text{NDF}$ : 1709.1/19

Left:  $-0.371 \pm 0.006$   $\chi^2/\text{NDF}$ : 3219.8/41

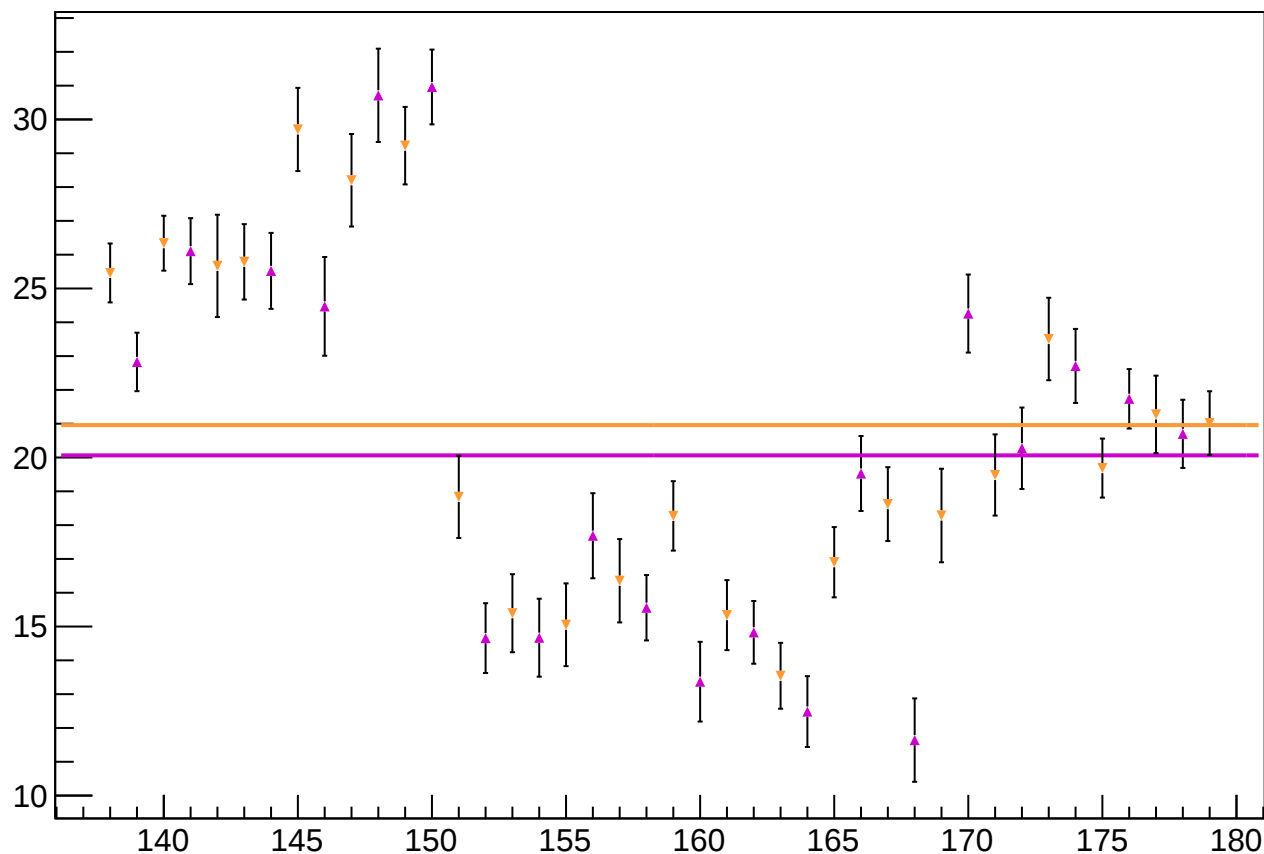
Right:  $0.153 \pm 0.010$   $\chi^2/\text{NDF}$ : 728.8/34

In:  $-0.188 \pm 0.007$   $\chi^2/\text{NDF}$ : 2987.5/36

Out:  $-0.251 \pm 0.007$   $\chi^2/\text{NDF}$ : 3045.7/39

All:  $-0.220 \pm 0.005$   $\chi^2/\text{NDF}$ : 6069.9/76

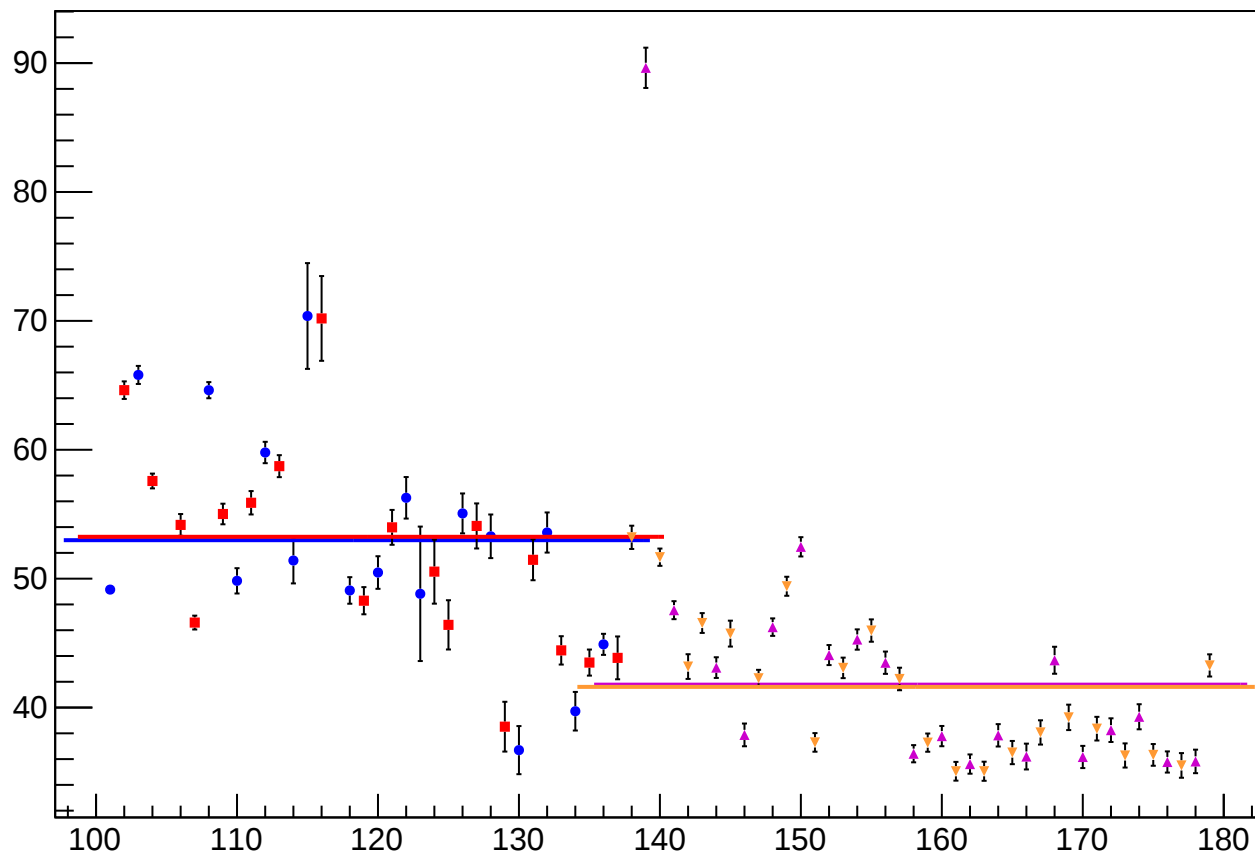
reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 20.959+/-0.232  $\chi^2/\text{NDF}$ :418.8/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 20.064+/-0.241  $\chi^2/\text{NDF}$ :498.9/19

Left: 20.528+/-0.167  $\chi^2/\text{NDF}$ : 924.9/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 20.064+/-0.241  $\chi^2/\text{NDF}$ :498.9/19  
 Out: 20.959+/-0.232  $\chi^2/\text{NDF}$ :418.8/21  
 All: 20.528+/-0.167  $\chi^2/\text{NDF}$ : 924.9/41

reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 52.985 $\pm$ 0.210  $\chi^2$ /NDF: 1197.9/16

Left Out: 41.603 $\pm$ 0.175  $\chi^2$ /NDF:1006.0/21

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

Left In: 41.776 $\pm$ 0.186  $\chi^2$ /NDF:1680.7/19

Left: 41.684 $\pm$ 0.127  $\chi^2$ /NDF: 2687.2/41

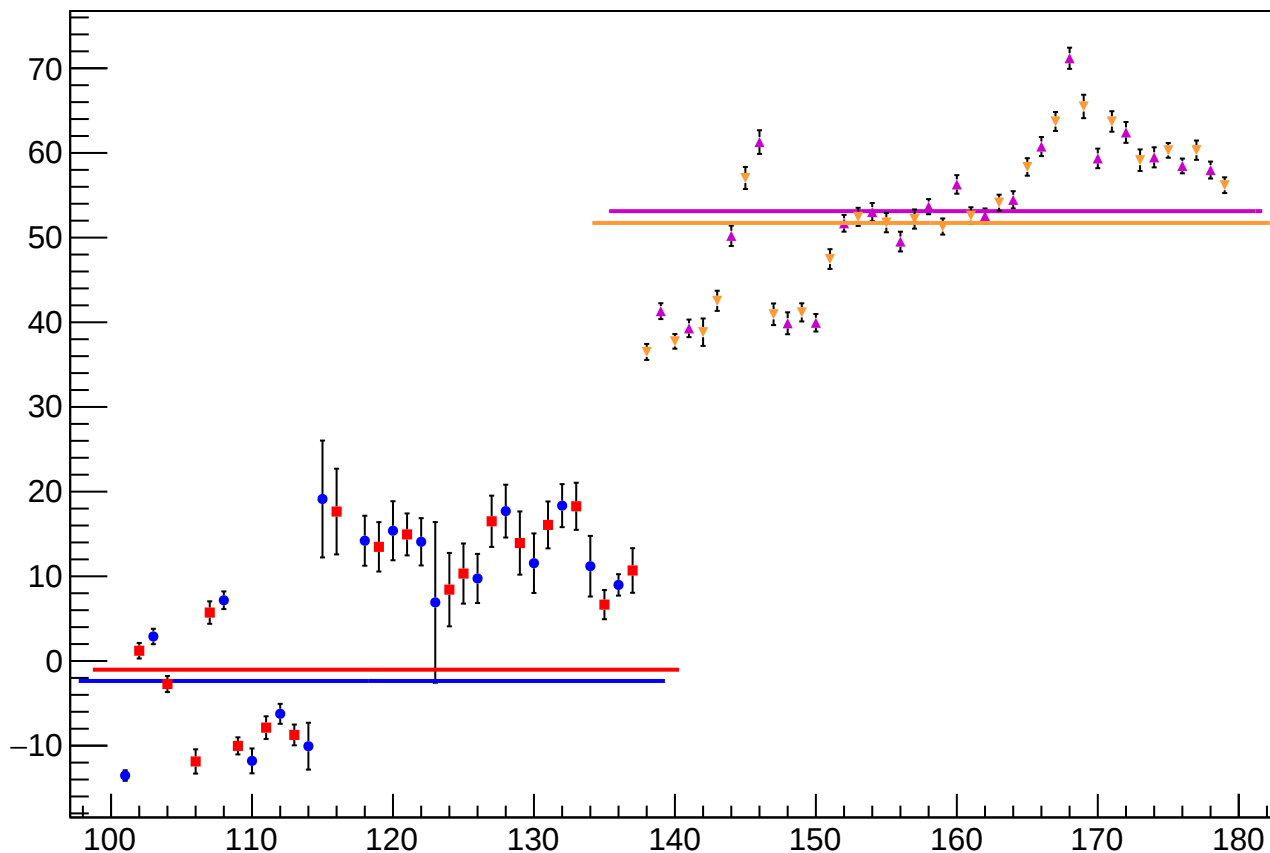
Right: 53.106 $\pm$ 0.154  $\chi^2$ /NDF: 2055.0/34

In: 46.684 $\pm$ 0.139  $\chi^2$ /NDF:4475.3/36

Out: 45.923 $\pm$ 0.138  $\chi^2$ /NDF:3512.3/39

All: 46.301 $\pm$ 0.098  $\chi^2$ /NDF: 8002.7/76

reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $51.733 \pm 0.230$   $\chi^2/\text{NDF}$ : 1414.9/21

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

Left In:  $53.125 \pm 0.238$   $\chi^2/\text{NDF}$ : 1097.7/19

Left:  $52.406 \pm 0.166$   $\chi^2/\text{NDF}$ : 2530.2/41

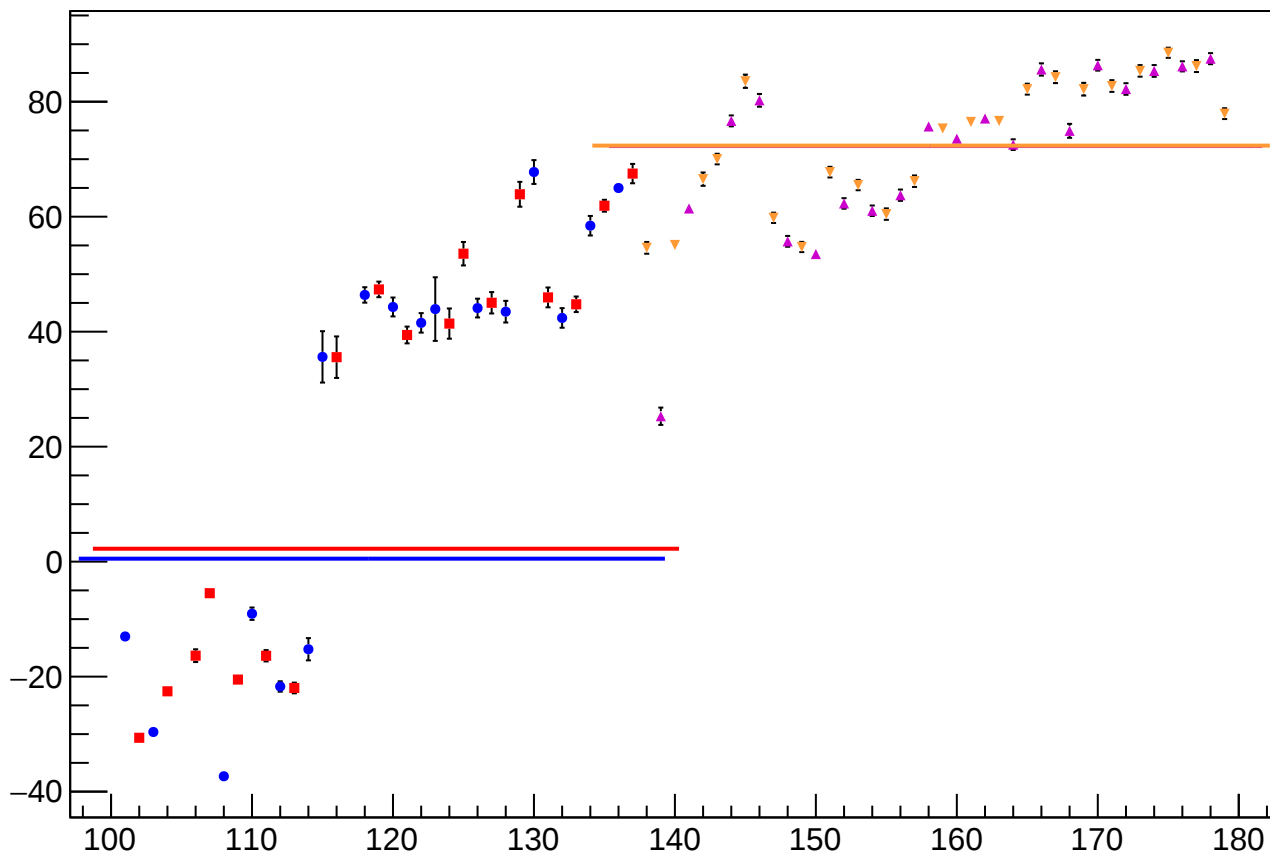
Right:  $-1.723 \pm 0.263$   $\chi^2/\text{NDF}$ : 1351.9/34

In:  $36.482 \pm 0.199$   $\chi^2/\text{NDF}$ : 18189.1/36

Out:  $37.562 \pm 0.197$   $\chi^2/\text{NDF}$ : 16004.0/39

All:  $37.028 \pm 0.140$   $\chi^2/\text{NDF}$ : 34207.9/76

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.518 $\pm$ 0.247  $\chi^2$ /NDF: 18386.0/16

Left Out: 72.364 $\pm$ 0.199  $\chi^2$ /NDF:2945.5/21

Right Out: 2.246 $\pm$ 0.267  $\chi^2$ /NDF: 15377.0/17

Left In: 72.287 $\pm$ 0.209  $\chi^2$ /NDF:3545.9/19

Left: 72.328 $\pm$ 0.144  $\chi^2$ /NDF: 6491.4/41

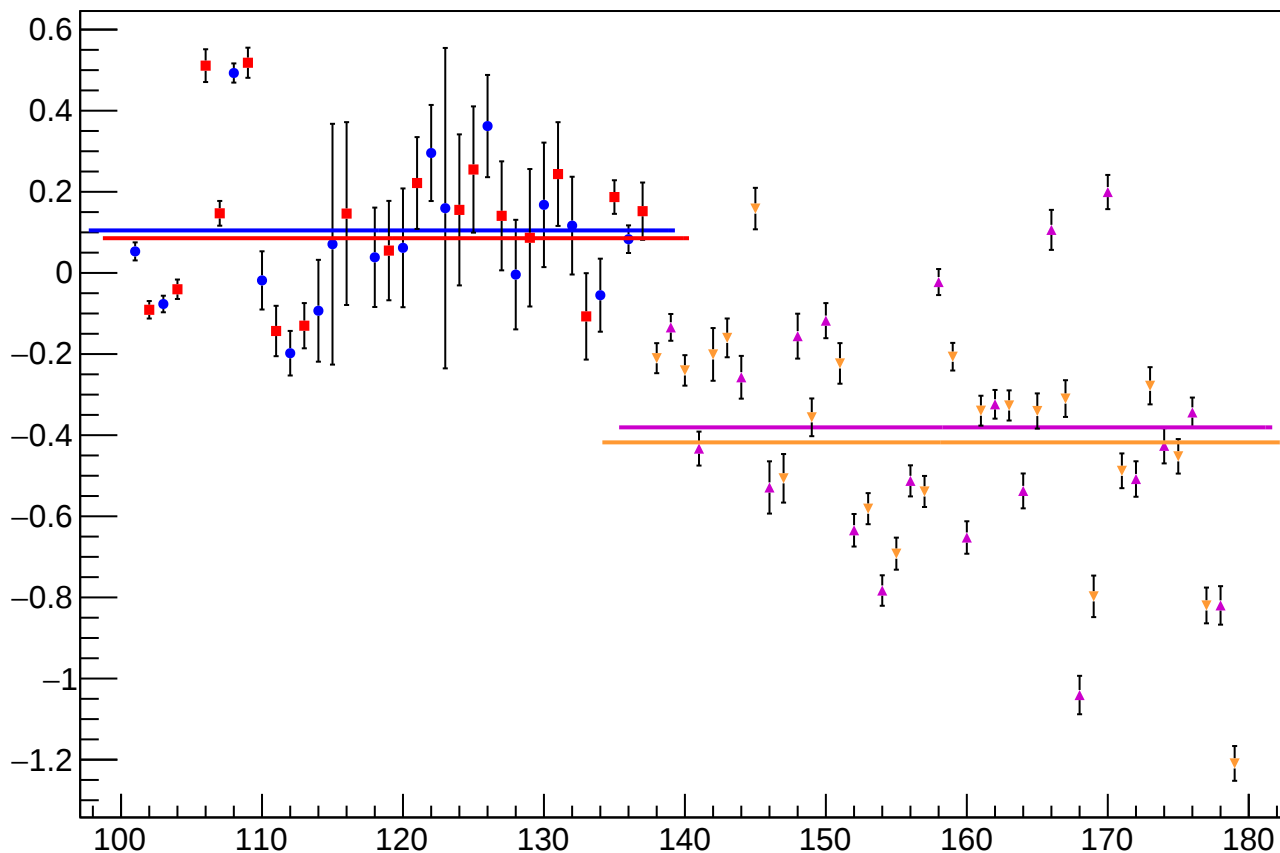
Right: 1.313 $\pm$ 0.181  $\chi^2$ /NDF: 33785.6/34

In: 42.327 $\pm$ 0.160  $\chi^2$ /NDF:71143.1/36

Out: 47.415 $\pm$ 0.160  $\chi^2$ /NDF:62615.4/39

All: 44.871 $\pm$ 0.113  $\chi^2$ /NDF: 134267.3/76

reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.418 \pm 0.009$   $\chi^2/\text{NDF}$ : 865.9/21

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}$ : 388.3/17

Left In:  $-0.381 \pm 0.009$   $\chi^2/\text{NDF}$ : 1051.6/19

Left:  $-0.400 \pm 0.007$   $\chi^2/\text{NDF}$ : 1925.6/41

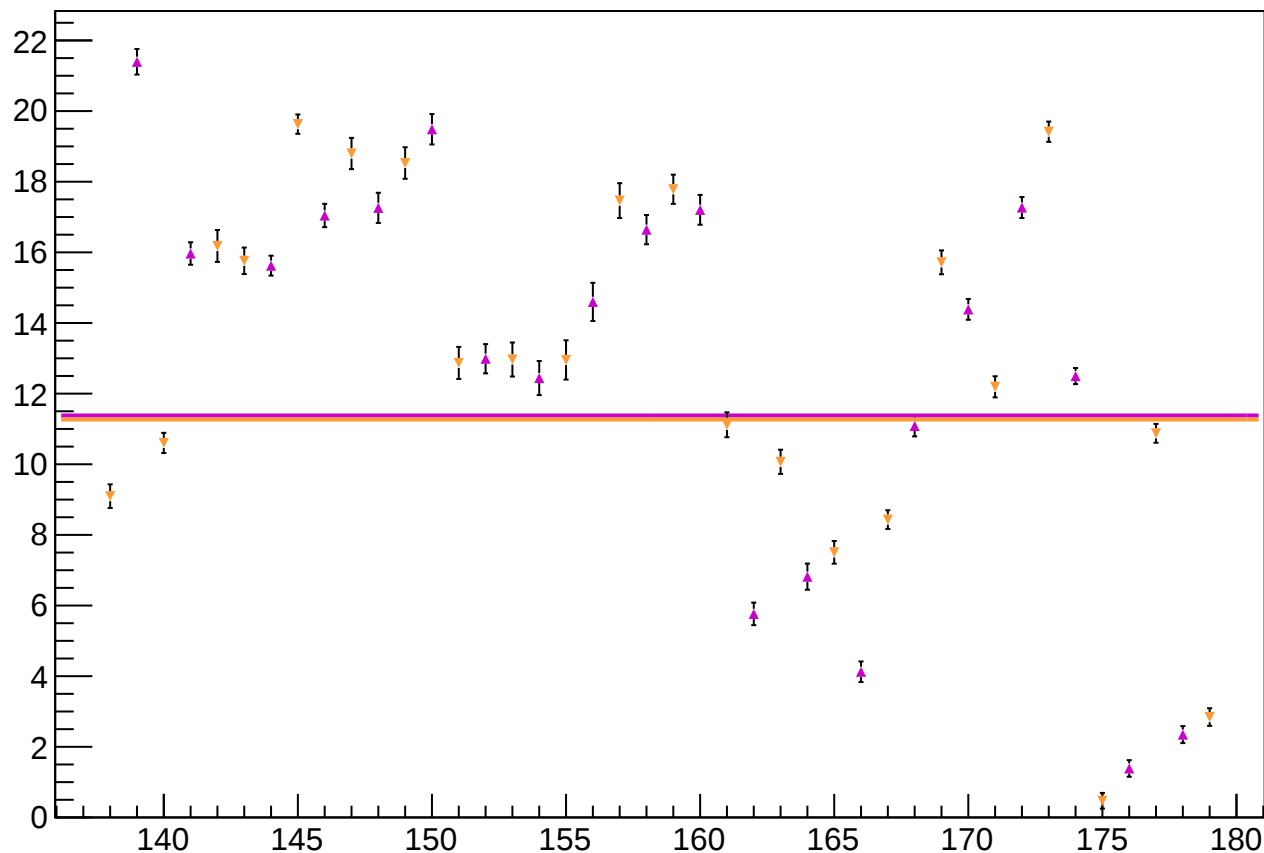
Right:  $0.095 \pm 0.008$   $\chi^2/\text{NDF}$ : 790.6/34

In:  $-0.179 \pm 0.007$   $\chi^2/\text{NDF}$ : 2584.0/36

Out:  $-0.214 \pm 0.007$   $\chi^2/\text{NDF}$ : 2482.9/39

All:  $-0.197 \pm 0.005$   $\chi^2/\text{NDF}$ : 5079.2/76

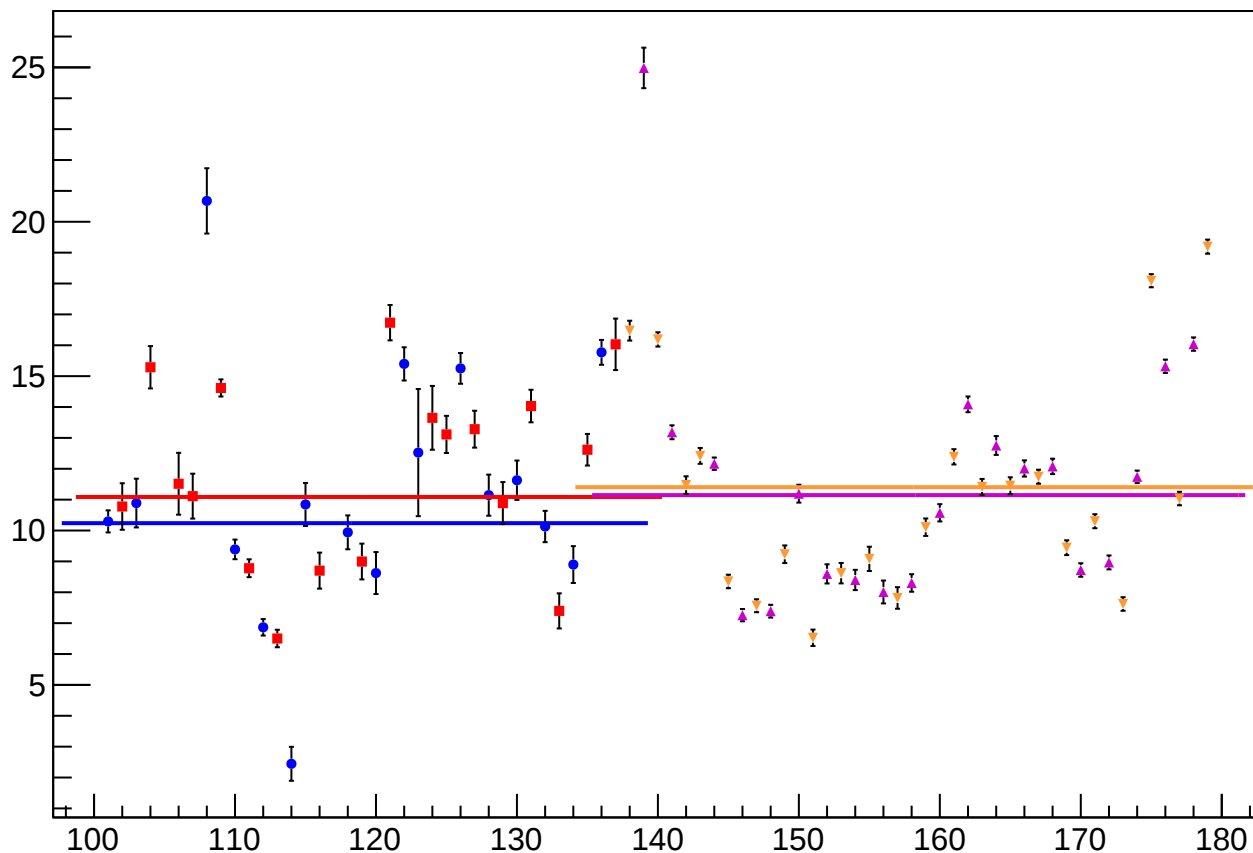
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 11.267+/-0.070  $\chi^2/\text{NDF}$ : 6980.8/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.381+/-0.072  $\chi^2/\text{NDF}$ : 7270.7/19

Left: 11.323+/-0.050  $\chi^2/\text{NDF}$ : 14252.8/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.381+/-0.072  $\chi^2/\text{NDF}$ : 7270.7/19  
 Out: 11.267+/-0.070  $\chi^2/\text{NDF}$ : 6980.8/21  
 All: 11.323+/-0.050  $\chi^2/\text{NDF}$ : 14252.8/41

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 10.238 $\pm$ 0.119  $\chi^2$ /NDF: 867.4/16

Left Out: 11.403 $\pm$ 0.054  $\chi^2$ /NDF: 4404.0/21

Right Out: 11.087 $\pm$ 0.116  $\chi^2$ /NDF: 801.0/17

Left In: 11.147 $\pm$ 0.056  $\chi^2$ /NDF: 2870.9/19

Left: 11.279 $\pm$ 0.039  $\chi^2$ /NDF: 7285.9/41

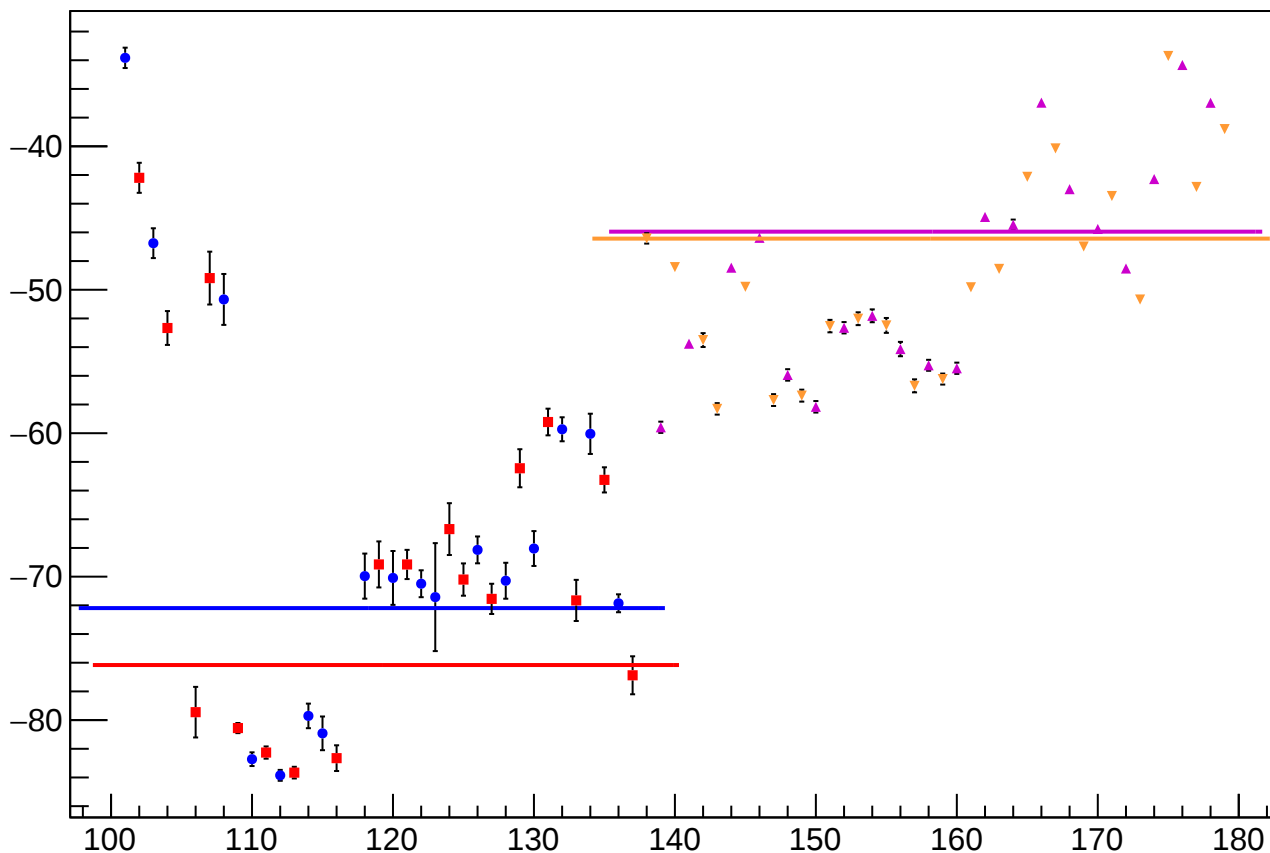
Right: 10.672 $\pm$ 0.083  $\chi^2$ /NDF: 1694.4/34

In: 10.985 $\pm$ 0.050  $\chi^2$ /NDF: 3786.1/36

Out: 11.348 $\pm$ 0.049  $\chi^2$ /NDF: 5211.1/39

All: 11.172 $\pm$ 0.035  $\chi^2$ /NDF: 9024.0/76

reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}$ : 5563.0/16

Left Out:  $-46.435 \pm 0.071$   $\chi^2/\text{NDF}$ : 9917.9/21

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}$ : 3223.3/17

Left In:  $-45.950 \pm 0.072$   $\chi^2/\text{NDF}$ : 10501.3/19

Left:  $-46.198 \pm 0.050$   $\chi^2/\text{NDF}$ : 20442.4/41

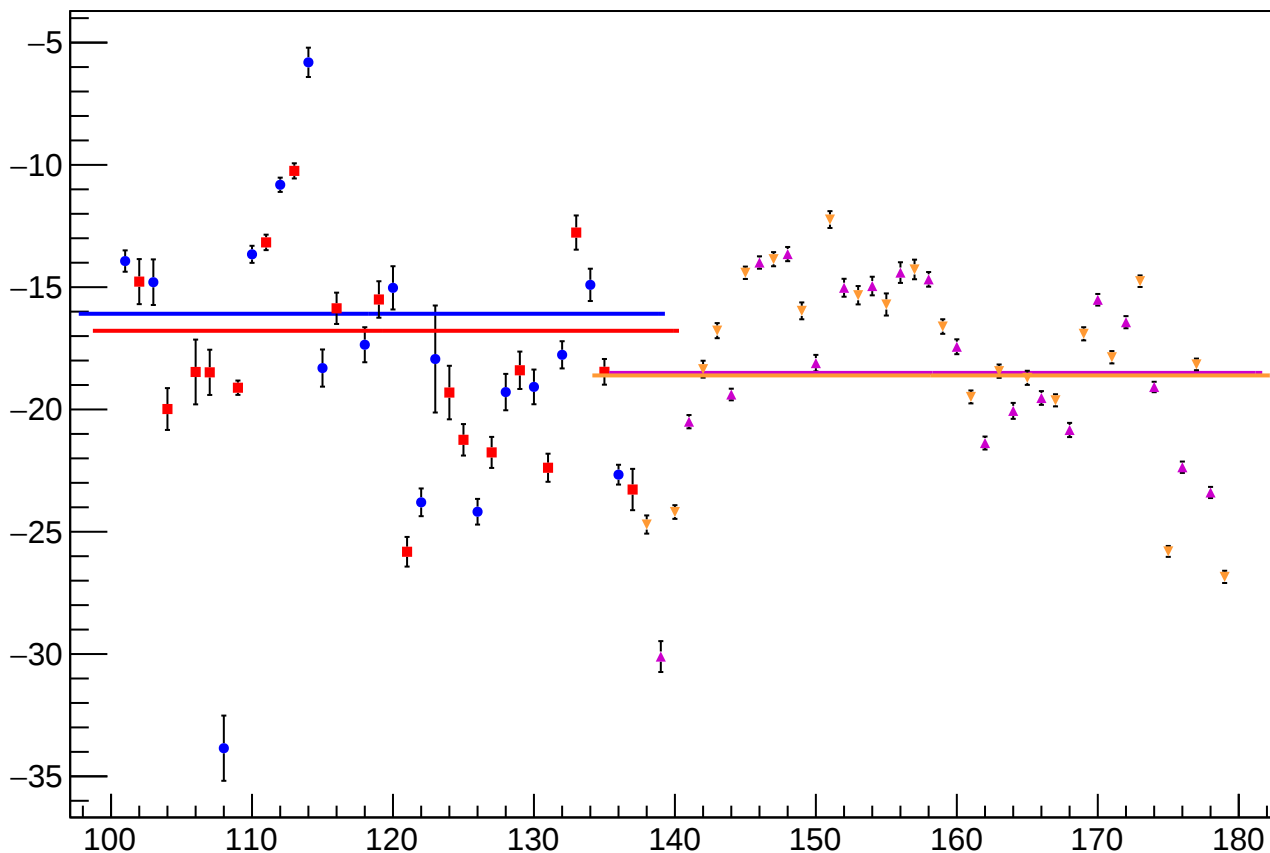
Right:  $-74.353 \pm 0.134$   $\chi^2/\text{NDF}$ : 9004.8/34

In:  $-49.012 \pm 0.068$   $\chi^2/\text{NDF}$ : 31559.4/36

Out:  $-50.344 \pm 0.066$   $\chi^2/\text{NDF}$ : 36507.2/39

All:  $-49.697 \pm 0.047$   $\chi^2/\text{NDF}$ : 68266.1/76

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-16.087 \pm 0.132$   $\chi^2/\text{NDF}$ : 1621.7/16

Left Out:  $-18.609 \pm 0.061$   $\chi^2/\text{NDF}$ : 4390.5/21

Right Out:  $-16.783 \pm 0.128$   $\chi^2/\text{NDF}$ : 1204.4/17

Left In:  $-18.505 \pm 0.063$   $\chi^2/\text{NDF}$ : 2638.6/19

Left:  $-18.558 \pm 0.044$   $\chi^2/\text{NDF}$ : 7030.6/41

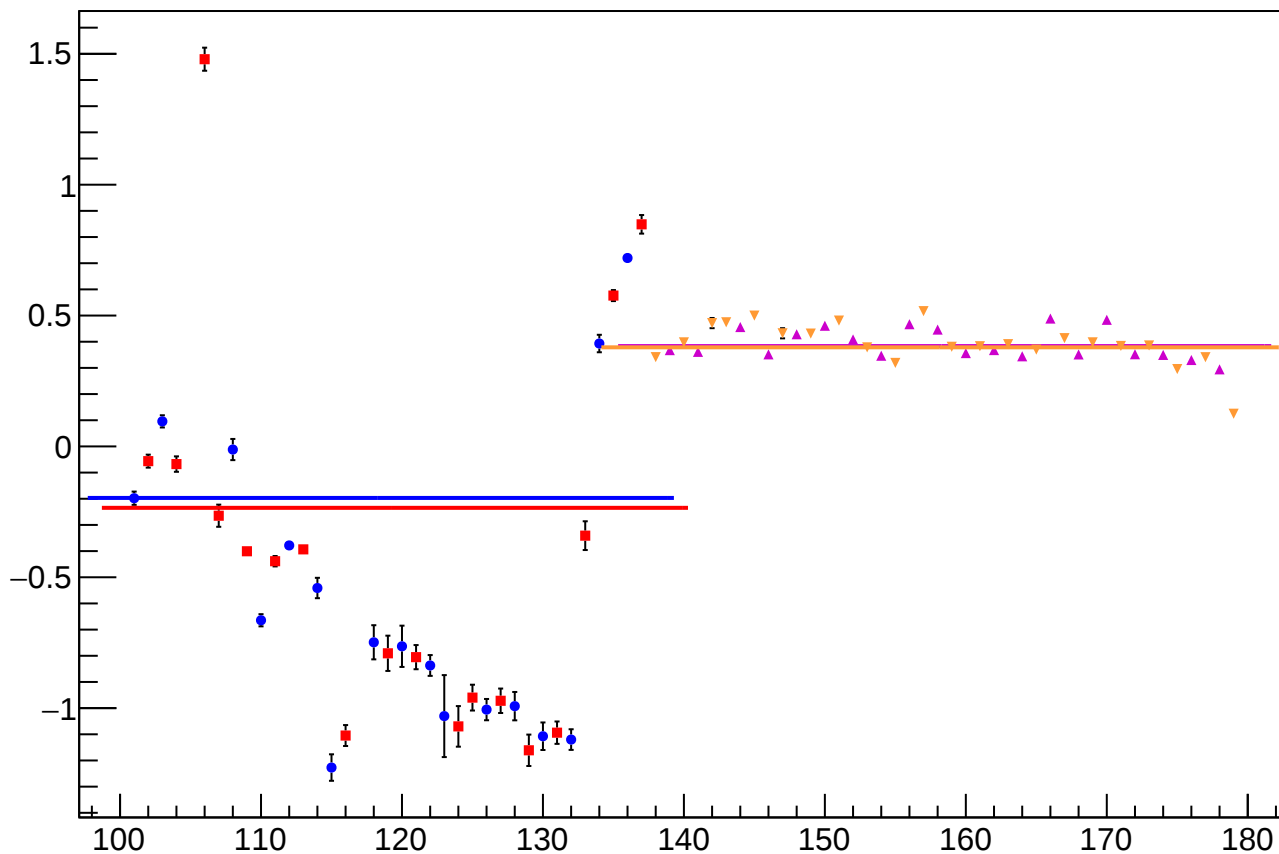
Right:  $-16.446 \pm 0.092$   $\chi^2/\text{NDF}$ : 2840.4/34

In:  $-18.061 \pm 0.057$   $\chi^2/\text{NDF}$ : 4532.7/36

Out:  $-18.272 \pm 0.055$   $\chi^2/\text{NDF}$ : 5760.3/39

All:  $-18.170 \pm 0.039$   $\chi^2/\text{NDF}$ : 10300.1/76

reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.379 \pm 0.003$   $\chi^2/\text{NDF}$ : 899.8/21

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

Left In:  $0.383 \pm 0.003$   $\chi^2/\text{NDF}$ : 407.6/19

Left:  $0.381 \pm 0.002$   $\chi^2/\text{NDF}$ : 1308.9/41

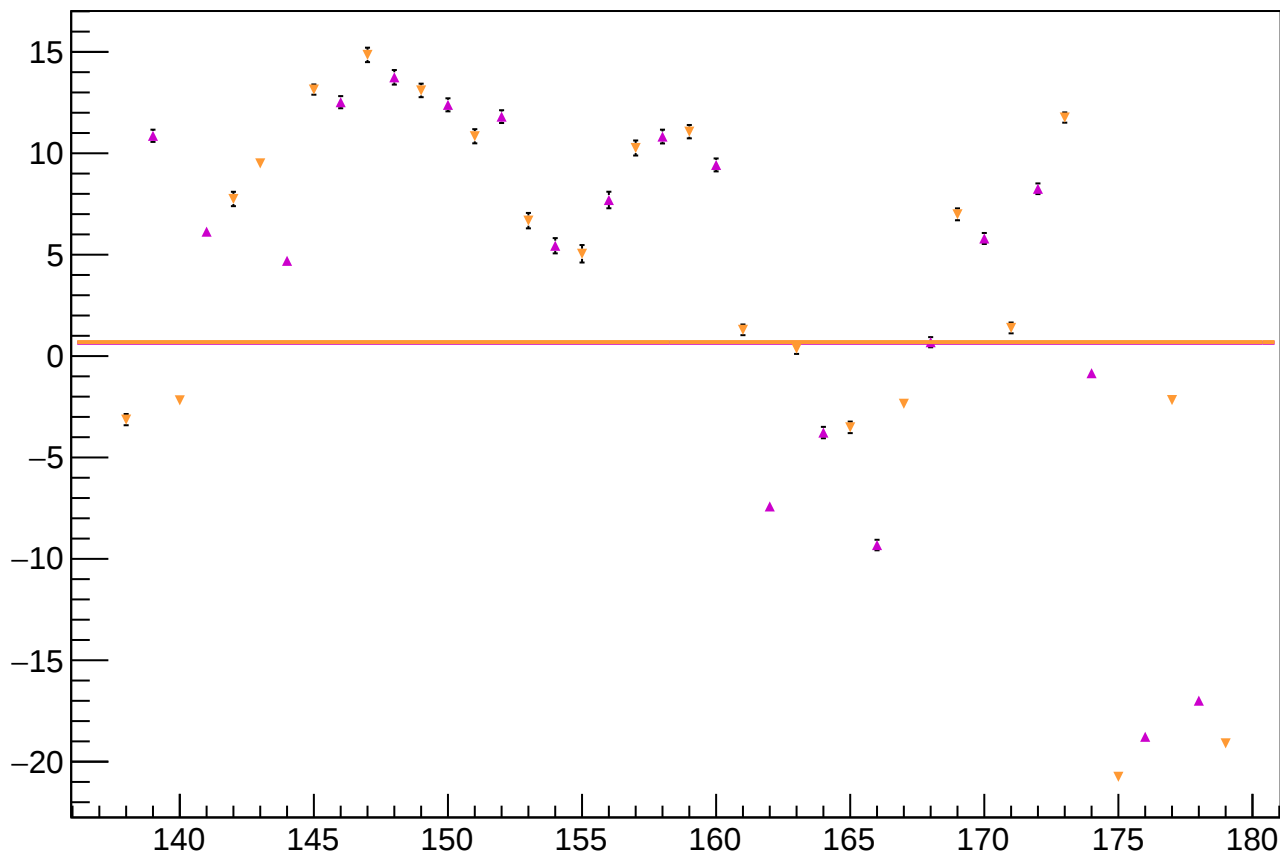
Right:  $-0.217 \pm 0.005$   $\chi^2/\text{NDF}$ : 12547.9/34

In:  $0.310 \pm 0.003$   $\chi^2/\text{NDF}$ : 11904.5/36

Out:  $0.297 \pm 0.003$   $\chi^2/\text{NDF}$ : 13413.2/39

All:  $0.304 \pm 0.002$   $\chi^2/\text{NDF}$ : 25330.8/76

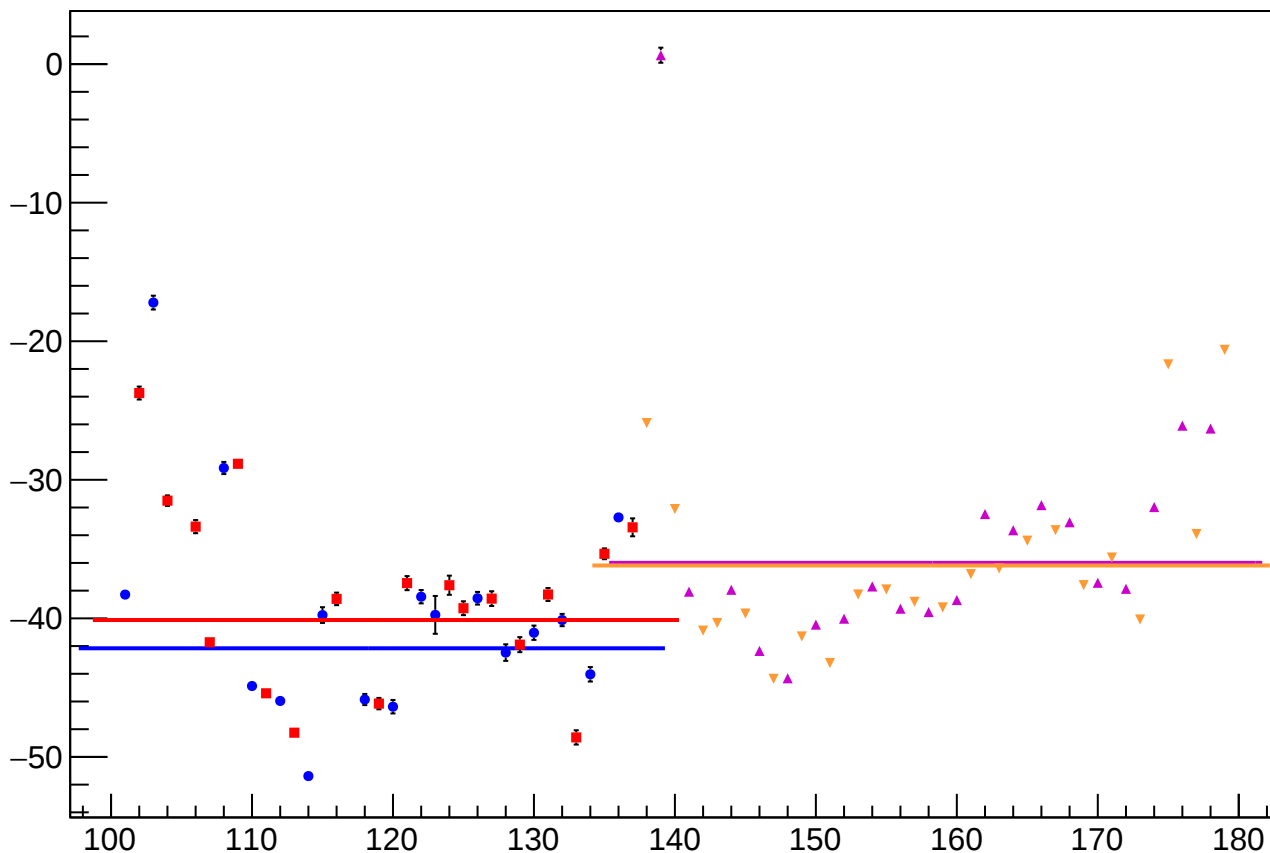
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.690 $\pm$ 0.059  $\chi^2$ /NDF:32537.1/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.655 $\pm$ 0.061  $\chi^2$ /NDF:28172.7/19

Left: 0.674 $\pm$ 0.042  $\chi^2$ /NDF: 60710.0/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.655 $\pm$ 0.061  $\chi^2$ /NDF:28172.7/19  
 Out: 0.690 $\pm$ 0.059  $\chi^2$ /NDF:32537.1/21  
 All: 0.674 $\pm$ 0.042  $\chi^2$ /NDF: 60710.0/41

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-42.160 \pm 0.078$   $\chi^2/\text{NDF}: 6570.6/16$

Left Out:  $-36.184 \pm 0.044$   $\chi^2/\text{NDF}: 19970.0/21$

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}: 10884.6/17$

Left In:  $-35.996 \pm 0.047$   $\chi^2/\text{NDF}: 15954.8/19$

Left:  $-36.095 \pm 0.032$   $\chi^2/\text{NDF}: 35933.3/41$

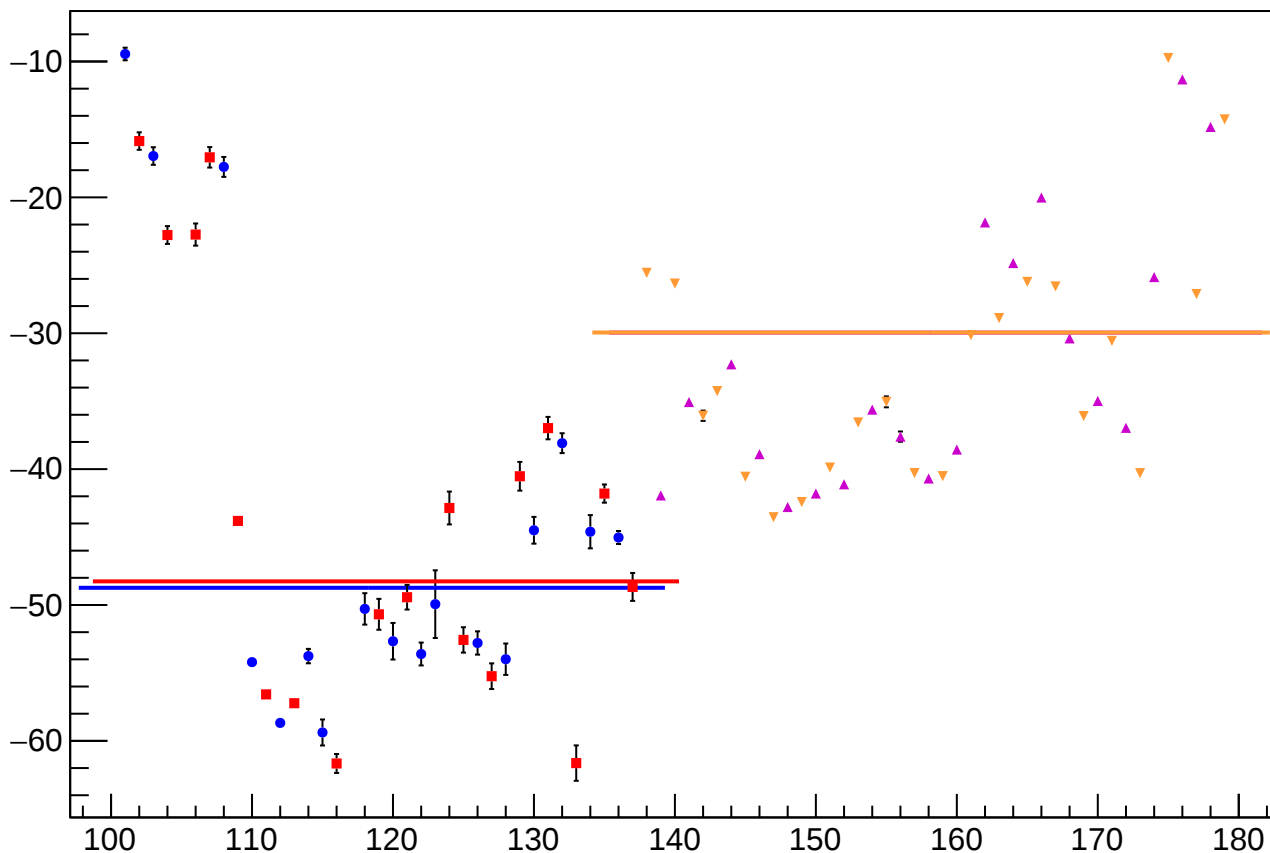
Right:  $-41.071 \pm 0.053$   $\chi^2/\text{NDF}: 17821.0/34$

In:  $-37.630 \pm 0.040$   $\chi^2/\text{NDF}: 27125.0/36$

Out:  $-37.245 \pm 0.038$   $\chi^2/\text{NDF}: 32986.7/39$

All:  $-37.426 \pm 0.028$   $\chi^2/\text{NDF}: 60160.6/76$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}: 14659.4/16$

Left Out:  $-29.946 \pm 0.059$   $\chi^2/\text{NDF}: 27121.0/21$

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}: 11091.7/17$

Left In:  $-29.954 \pm 0.061$   $\chi^2/\text{NDF}: 26674.4/19$

Left:  $-29.950 \pm 0.042$   $\chi^2/\text{NDF}: 53795.5/41$

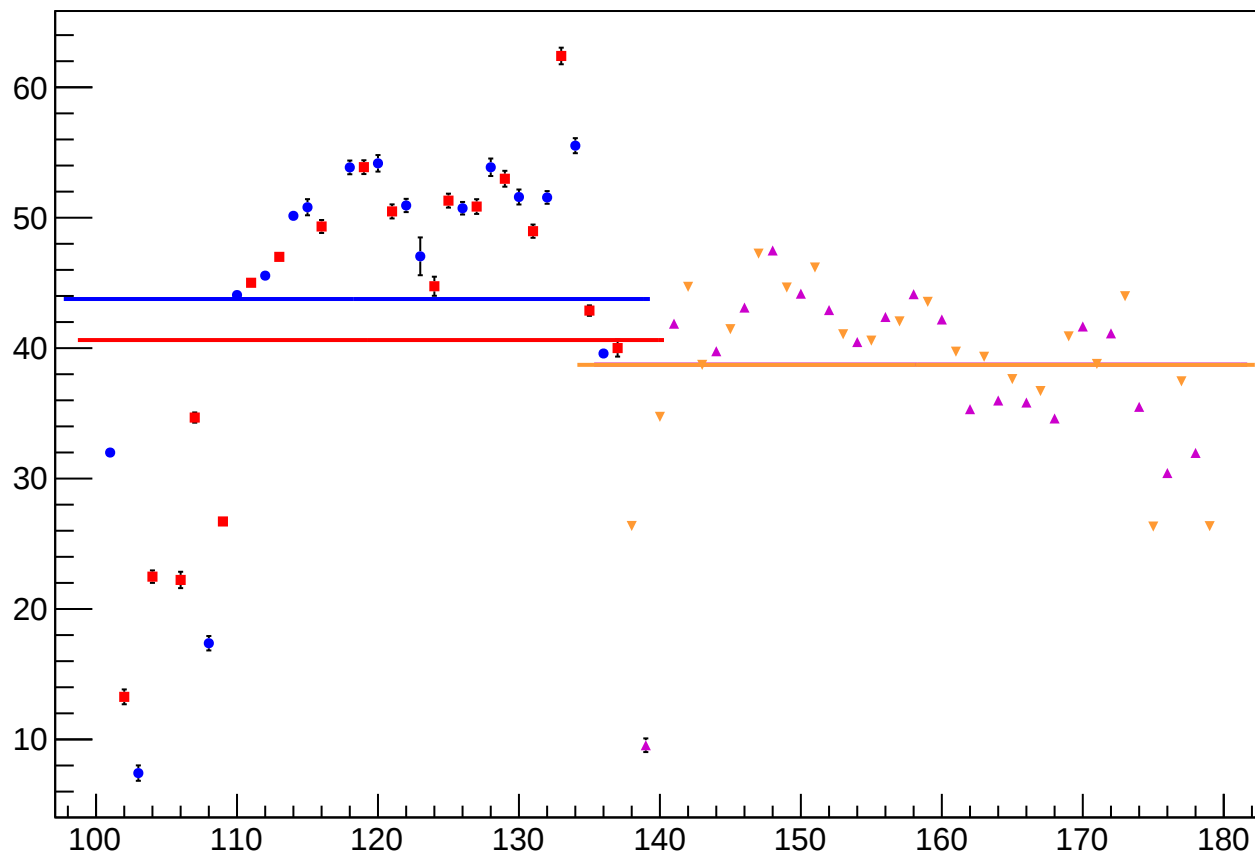
Right:  $-48.462 \pm 0.081$   $\chi^2/\text{NDF}: 25759.4/34$

In:  $-33.552 \pm 0.055$   $\chi^2/\text{NDF}: 59671.0/36$

Out:  $-34.148 \pm 0.051$   $\chi^2/\text{NDF}: 60604.9/39$

All:  $-33.868 \pm 0.037$   $\chi^2/\text{NDF}: 120338.9/76$

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 43.767 $\pm$ 0.087  $\chi^2$ /NDF: 10633.5/16

Left Out: 38.719 $\pm$ 0.050  $\chi^2$ /NDF:13509.7/21

Right Out: 40.620 $\pm$ 0.080  $\chi^2$ /NDF: 16957.4/17

Left In: 38.741 $\pm$ 0.053  $\chi^2$ /NDF:10533.7/19

Left: 38.730 $\pm$ 0.036  $\chi^2$ /NDF: 24043.6/41

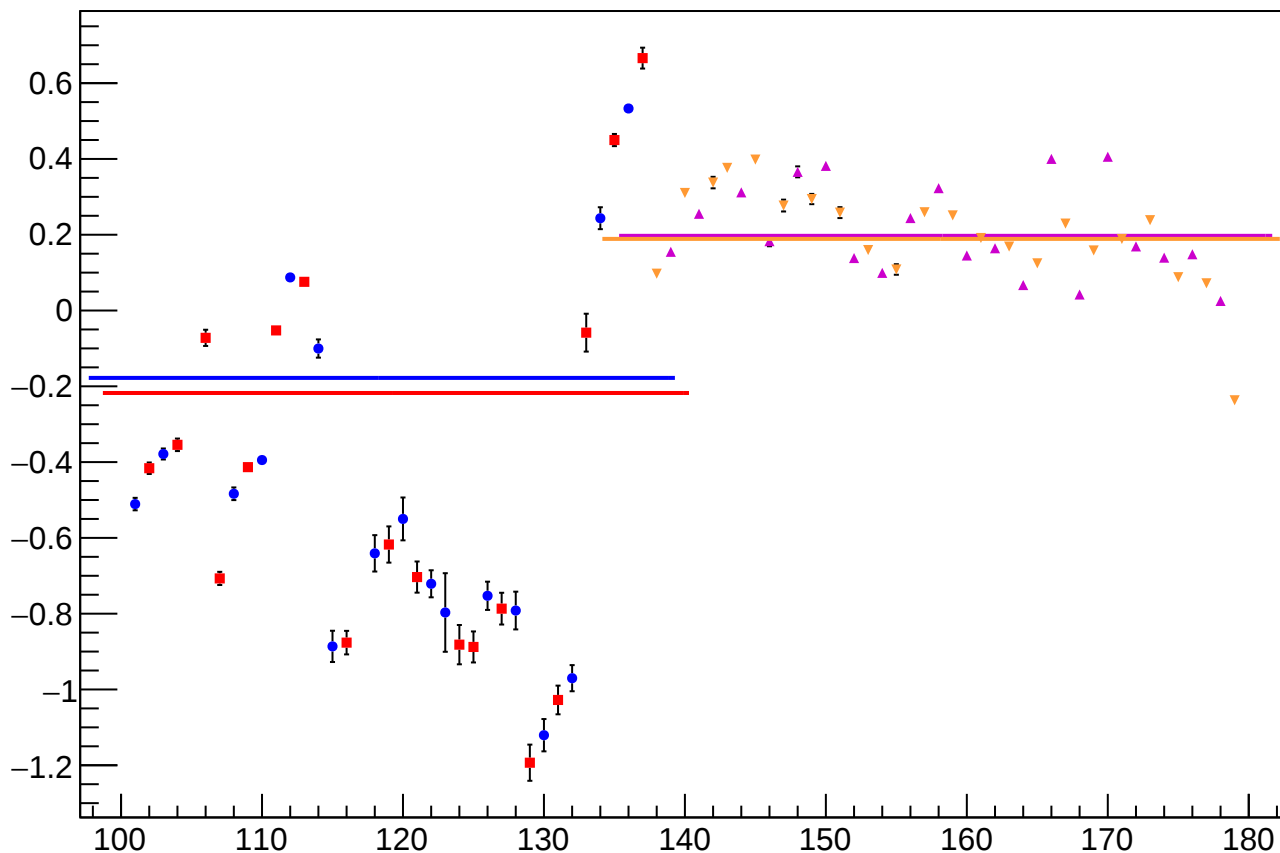
Right: 42.070 $\pm$ 0.059  $\chi^2$ /NDF: 28299.2/34

In: 40.100 $\pm$ 0.045  $\chi^2$ /NDF:23612.8/36

Out: 39.255 $\pm$ 0.043  $\chi^2$ /NDF:30870.0/39

All: 39.653 $\pm$ 0.031  $\chi^2$ /NDF: 54667.7/76

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.189 \pm 0.002$   $\chi^2/\text{NDF}$ : 3275.8/21

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

Left In:  $0.197 \pm 0.002$   $\chi^2/\text{NDF}$ : 2253.5/19

Left:  $0.193 \pm 0.002$   $\chi^2/\text{NDF}$ : 5535.2/41

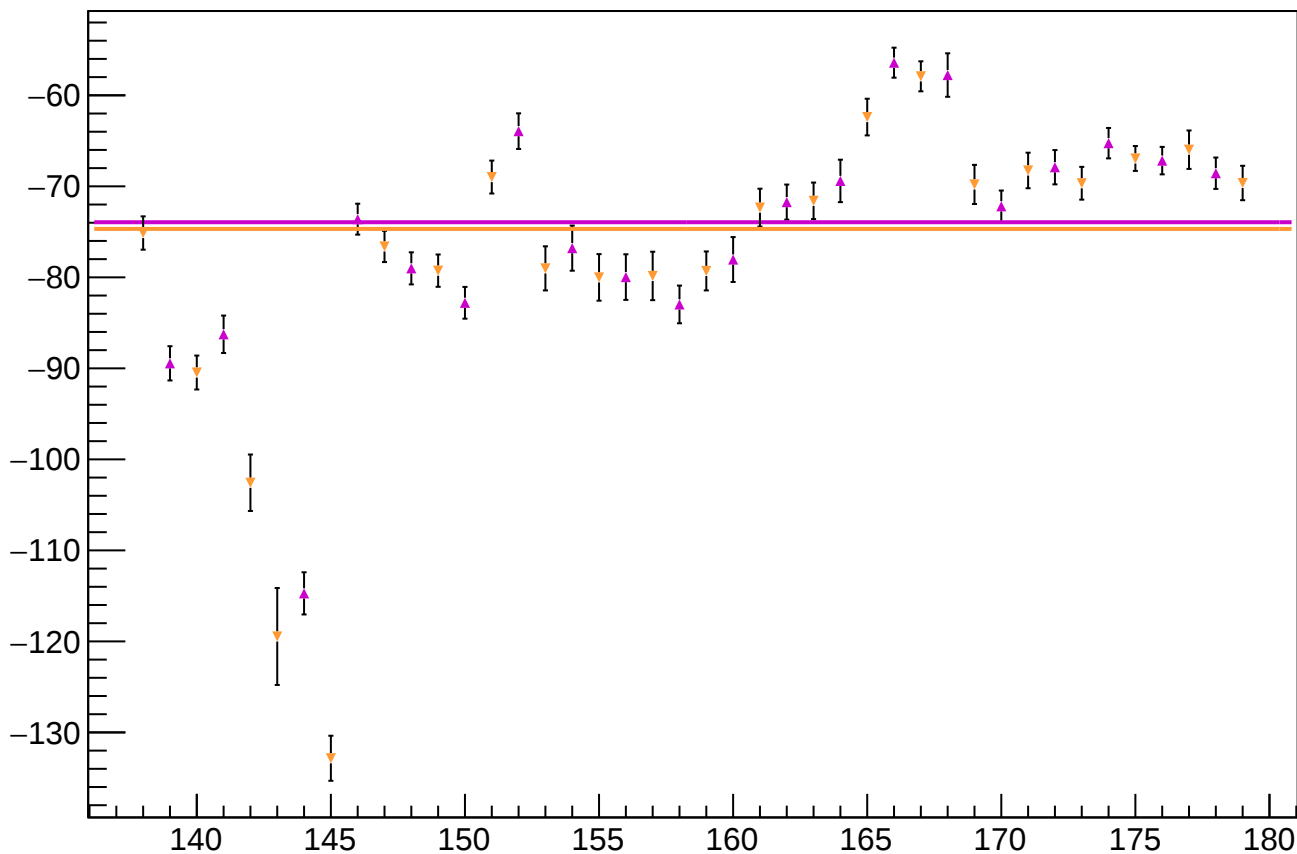
Right:  $-0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 14857.8/34

In:  $0.123 \pm 0.002$   $\chi^2/\text{NDF}$ : 14428.2/36

Out:  $0.097 \pm 0.002$   $\chi^2/\text{NDF}$ : 17604.3/39

All:  $0.109 \pm 0.001$   $\chi^2/\text{NDF}$ : 32110.2/76

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: -74.679+/-0.428  $\chi^2/\text{NDF}$ :1033.2/21

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

Left In: -73.945+/-0.429  $\chi^2/\text{NDF}$ :734.4/19

Left: -74.313+/-0.303  $\chi^2/\text{NDF}$ : 1769.1/41

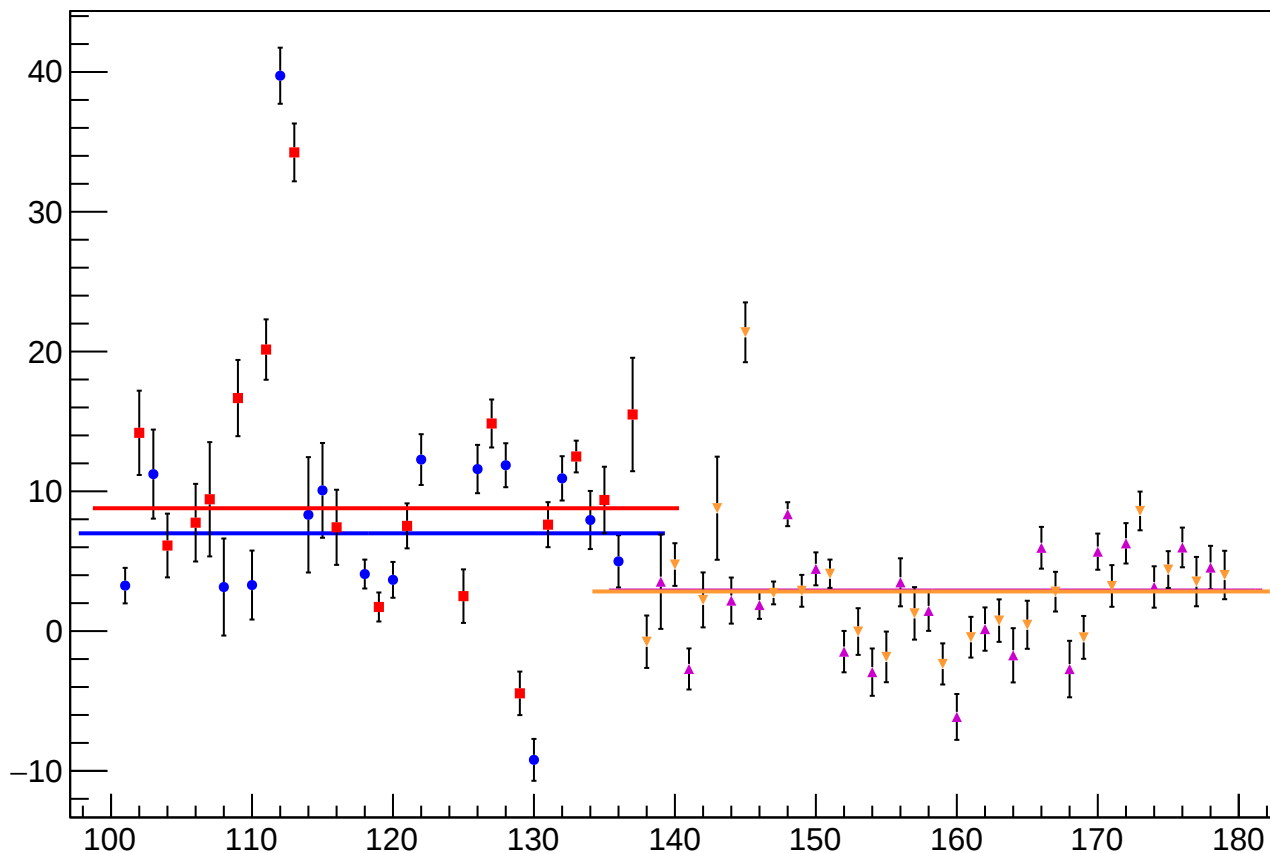
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -73.945+/-0.429  $\chi^2/\text{NDF}$ :734.4/19

Out: -74.679+/-0.428  $\chi^2/\text{NDF}$ :1033.2/21

All: -74.313+/-0.303  $\chi^2/\text{NDF}$ : 1769.1/41

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $6.996 \pm 0.434$   $\chi^2/\text{NDF}: 445.3/15$

Left Out:  $2.836 \pm 0.312$   $\chi^2/\text{NDF}: 140.2/21$

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}: 348.8/16$

Left In:  $2.903 \pm 0.319$   $\chi^2/\text{NDF}: 147.3/19$

Left:  $2.868 \pm 0.223$   $\chi^2/\text{NDF}: 287.5/41$

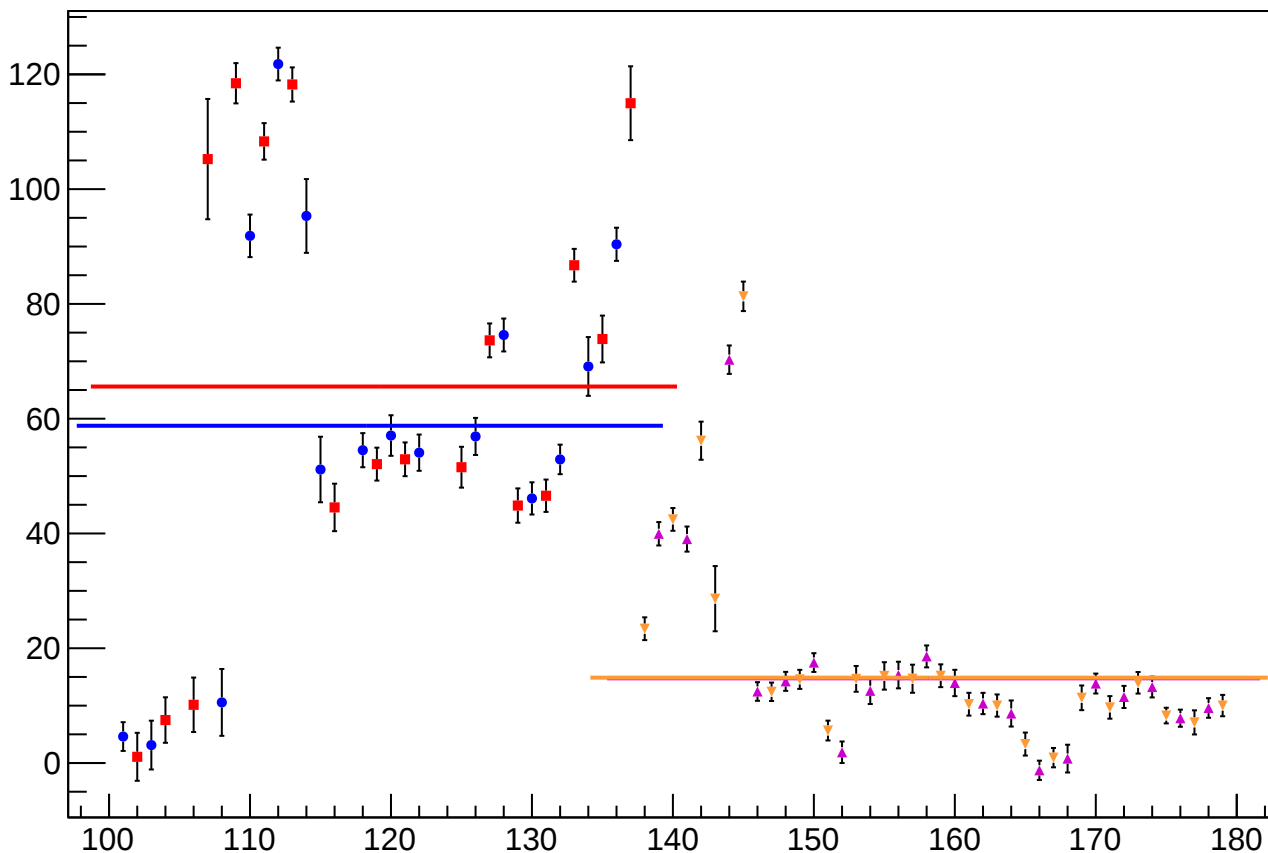
Right:  $7.862 \pm 0.312$   $\chi^2/\text{NDF}: 802.4/32$

In:  $4.336 \pm 0.257$   $\chi^2/\text{NDF}: 650.4/35$

Out:  $4.770 \pm 0.256$   $\chi^2/\text{NDF}: 607.5/38$

All:  $4.553 \pm 0.181$   $\chi^2/\text{NDF}: 1259.4/74$

reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 58.770 $\pm$ 0.833  $\chi^2$ /NDF: 1493.3/15

Left Out: 14.876 $\pm$ 0.423  $\chi^2$ /NDF:1239.2/21

Right Out: 65.606 $\pm$ 0.845  $\chi^2$ /NDF: 1625.3/16

Left In: 14.762 $\pm$ 0.424  $\chi^2$ /NDF:1006.8/19

Left: 14.819 $\pm$ 0.299  $\chi^2$ /NDF: 2246.0/41

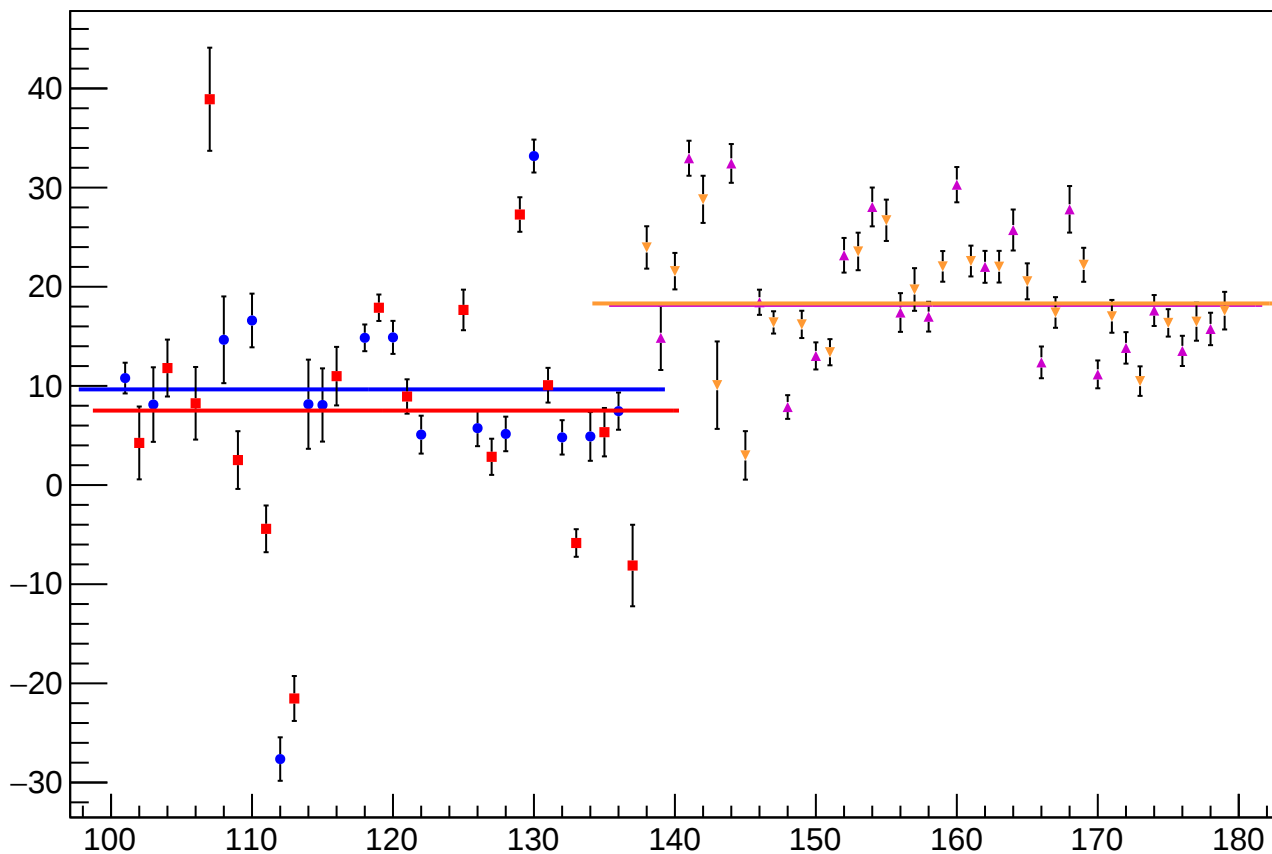
Right: 62.140 $\pm$ 0.593  $\chi^2$ /NDF: 3151.9/32

In: 23.822 $\pm$ 0.378  $\chi^2$ /NDF:4717.0/35

Out: 25.040 $\pm$ 0.378  $\chi^2$ /NDF:5748.5/38

All: 24.431 $\pm$ 0.267  $\chi^2$ /NDF: 10470.7/74

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 9.648 $\pm$ 0.502  $\chi^2$ /NDF: 553.6/15

Left Out: 18.314 $\pm$ 0.360  $\chi^2$ /NDF:173.0/21

Right Out: 7.511 $\pm$ 0.516  $\chi^2$ /NDF: 564.3/16

Left In: 18.171 $\pm$ 0.366  $\chi^2$ /NDF:386.6/19

Left: 18.244 $\pm$ 0.257  $\chi^2$ /NDF: 559.7/41

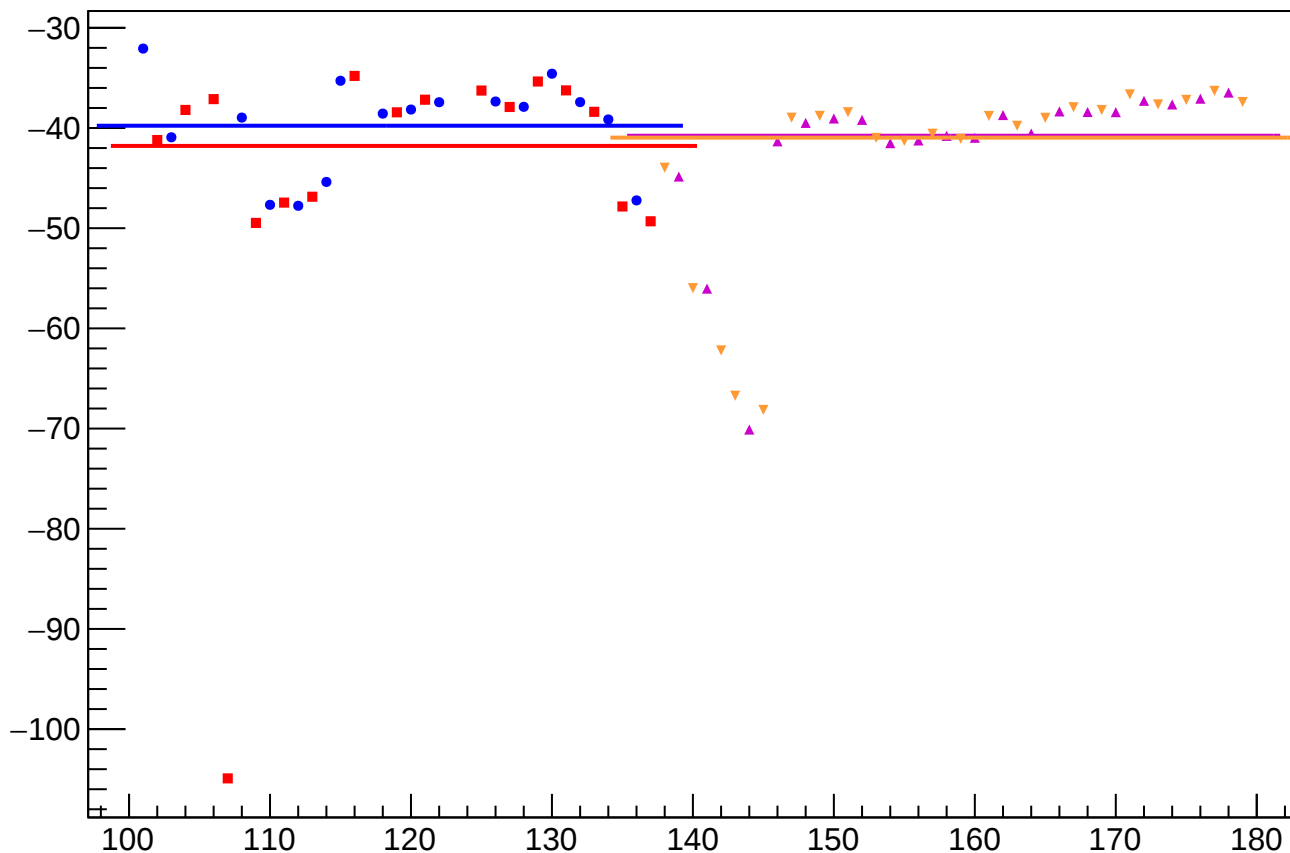
Right: 8.610 $\pm$ 0.360  $\chi^2$ /NDF: 1126.7/32

In: 15.210 $\pm$ 0.296  $\chi^2$ /NDF:1128.2/35

Out: 14.779 $\pm$ 0.295  $\chi^2$ /NDF:1031.6/38

All: 14.994 $\pm$ 0.209  $\chi^2$ /NDF: 2160.9/74

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -39.771+/-0.031  $\chi^2/\text{NDF}$ : 26176.5/15

Left Out: -40.960+/-0.017  $\chi^2/\text{NDF}$ :163076.6/21

Right Out: -41.787+/-0.031  $\chi^2/\text{NDF}$ : 93008.7/16

Left In: -40.771+/-0.017  $\chi^2/\text{NDF}$ :121965.9/19

Left: -40.865+/-0.012  $\chi^2/\text{NDF}$ : 285104.7/41

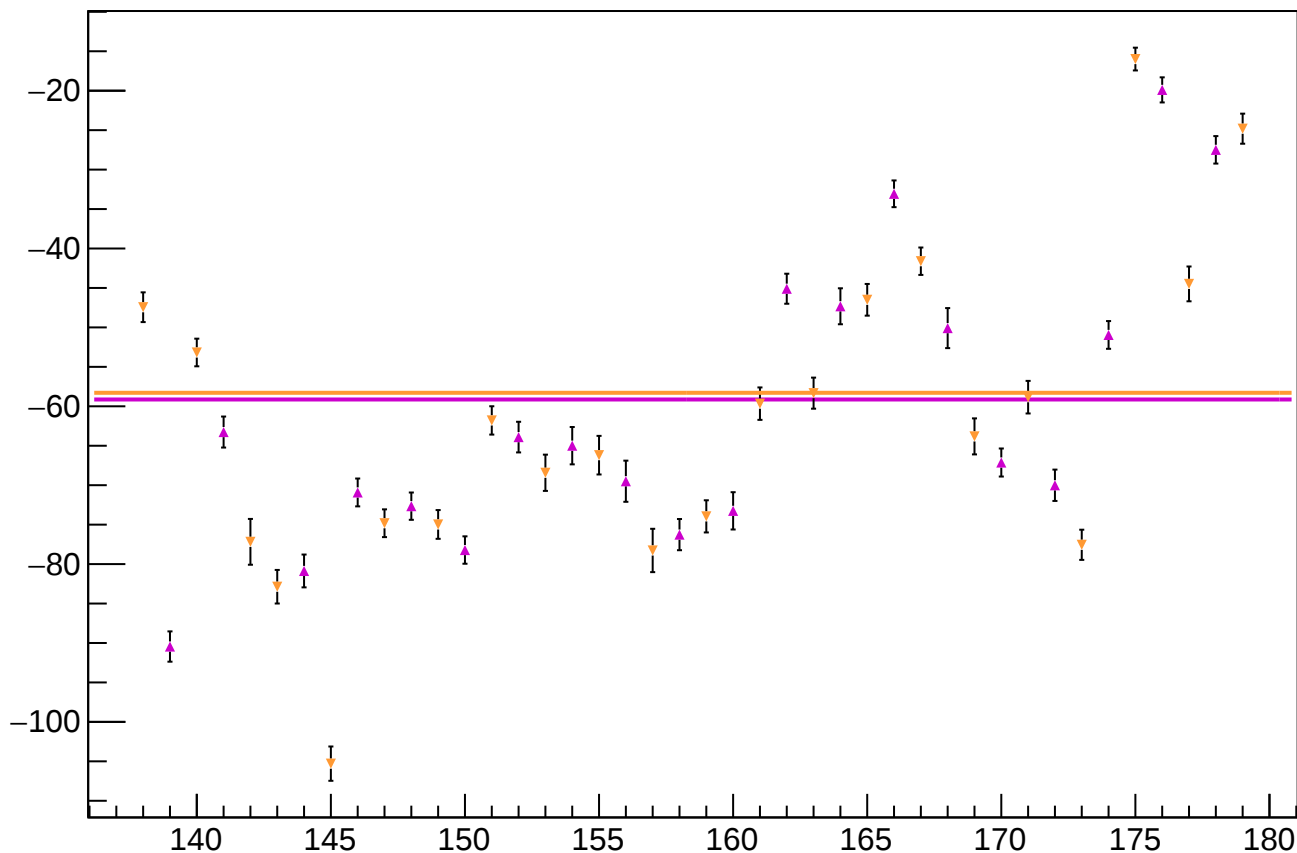
Right: -40.769+/-0.022  $\chi^2/\text{NDF}$ : 121265.0/32

In: -40.543+/-0.015  $\chi^2/\text{NDF}$ :148940.5/35

Out: -41.147+/-0.015  $\chi^2/\text{NDF}$ :256621.4/38

All: -40.843+/-0.011  $\chi^2/\text{NDF}$ : 406384.1/74

reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out:  $-58.288 \pm 0.424$   $\chi^2/\text{NDF}$ : 2443.6/21

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

Left In:  $-59.137 \pm 0.432$   $\chi^2/\text{NDF}$ : 2085.9/19

Left:  $-58.705 \pm 0.303$   $\chi^2/\text{NDF}$ : 4531.5/41

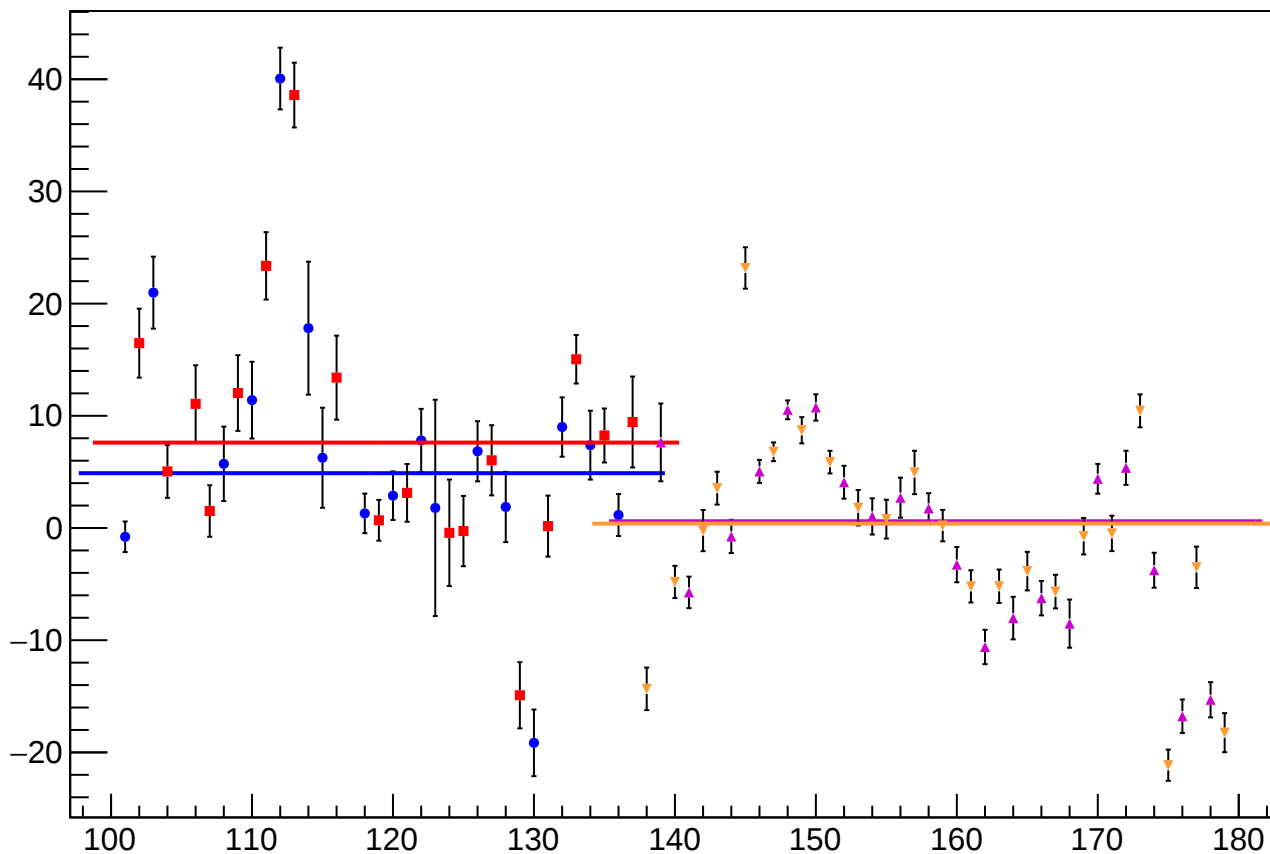
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-59.137 \pm 0.432$   $\chi^2/\text{NDF}$ : 2085.9/19

Out:  $-58.288 \pm 0.424$   $\chi^2/\text{NDF}$ : 2443.6/21

All:  $-58.705 \pm 0.303$   $\chi^2/\text{NDF}$ : 4531.5/41

reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.888 $\pm$ 0.622  $\chi^2$ /NDF: 294.7/16

Left Out: 0.389 $\pm$ 0.307  $\chi^2$ /NDF:834.3/21

Right Out: 7.615 $\pm$ 0.652  $\chi^2$ /NDF: 269.2/17

Left In: 0.600 $\pm$ 0.318  $\chi^2$ /NDF:649.5/19

Left: 0.491 $\pm$ 0.221  $\chi^2$ /NDF: 1484.1/41

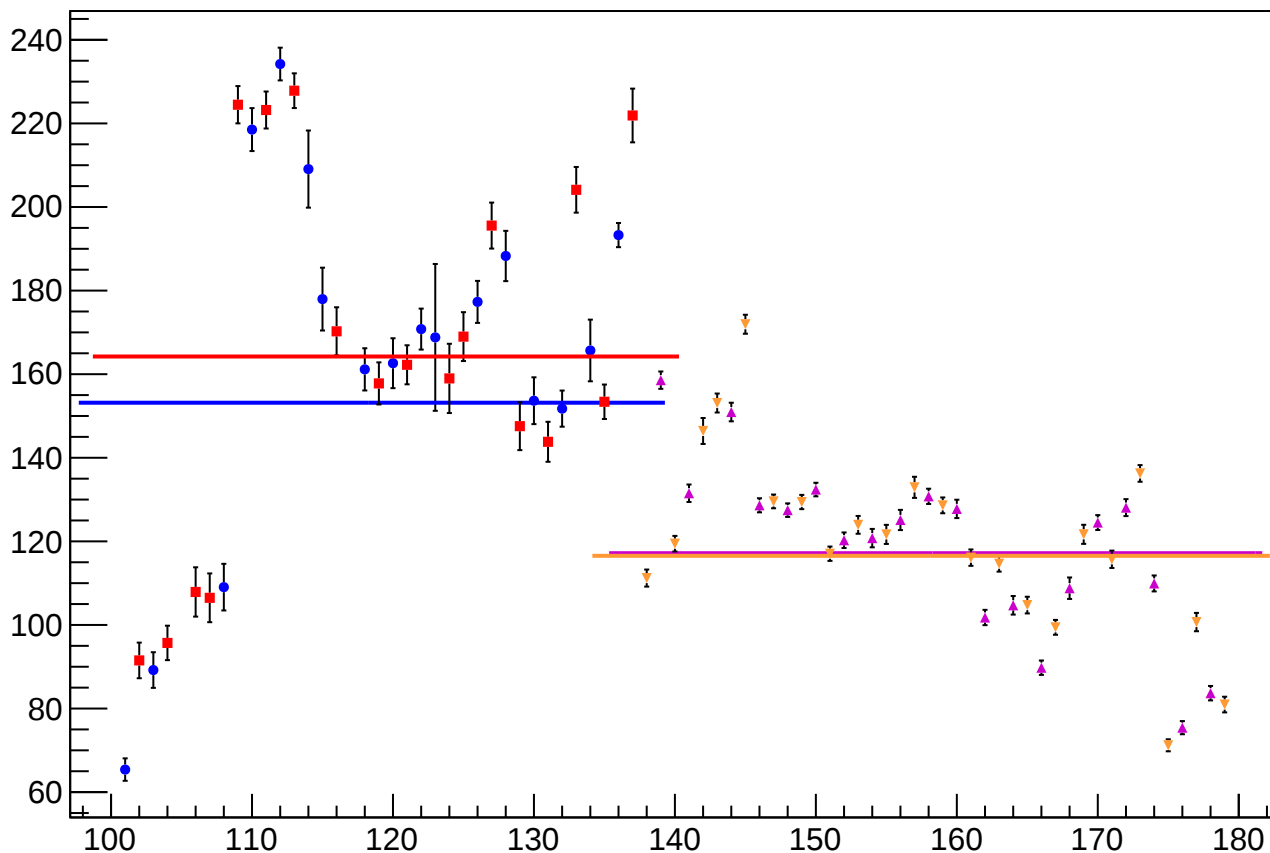
Right: 6.187 $\pm$ 0.450  $\chi^2$ /NDF: 573.1/34

In: 1.490 $\pm$ 0.283  $\chi^2$ /NDF:981.9/36

Out: 1.702 $\pm$ 0.278  $\chi^2$ /NDF:1203.9/39

All: 1.598 $\pm$ 0.198  $\chi^2$ /NDF: 2186.1/76

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 153.174 $\pm$ 1.146  $\chi^2$ /NDF: 2264.3/16

Left Out: 116.544 $\pm$ 0.420  $\chi^2$ /NDF:2810.0/21

Right Out: 164.232 $\pm$ 1.183  $\chi^2$ /NDF: 1554.8/17

Left In: 117.169 $\pm$ 0.426  $\chi^2$ /NDF:2447.8/19

Left: 116.852 $\pm$ 0.299  $\chi^2$ /NDF: 5259.0/41

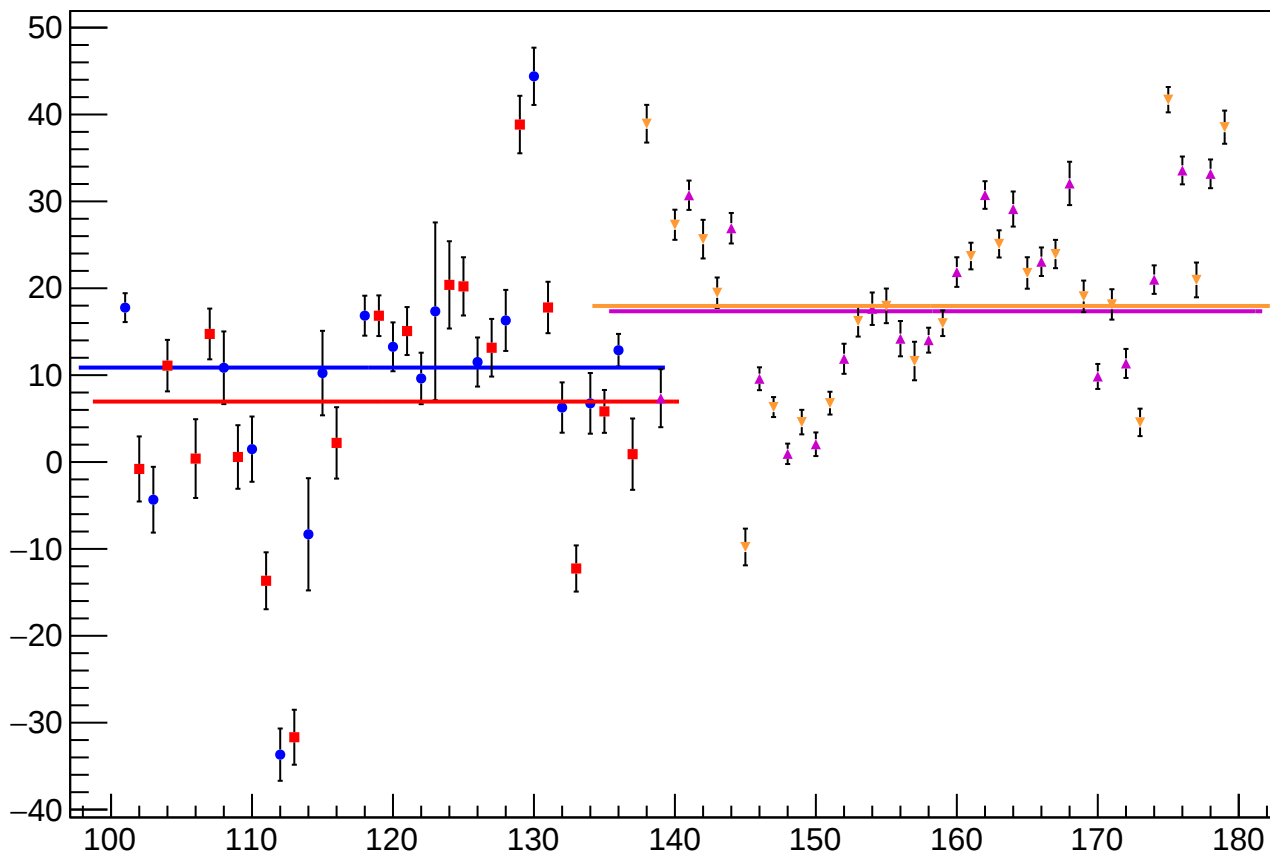
Right: 158.528 $\pm$ 0.823  $\chi^2$ /NDF: 3864.1/34

In: 121.540 $\pm$ 0.399  $\chi^2$ /NDF:5578.8/36

Out: 121.876 $\pm$ 0.396  $\chi^2$ /NDF:5807.7/39

All: 121.710 $\pm$ 0.281  $\chi^2$ /NDF: 11386.8/76

reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.872 $\pm$ 0.714  $\chi^2$ /NDF: 386.7/16

Left Out: 17.964 $\pm$ 0.356  $\chi^2$ /NDF:1091.9/21

Right Out: 6.958 $\pm$ 0.749  $\chi^2$ /NDF: 422.3/17

Left In: 17.355 $\pm$ 0.367  $\chi^2$ /NDF:873.5/19

Left: 17.669 $\pm$ 0.255  $\chi^2$ /NDF: 1966.8/41

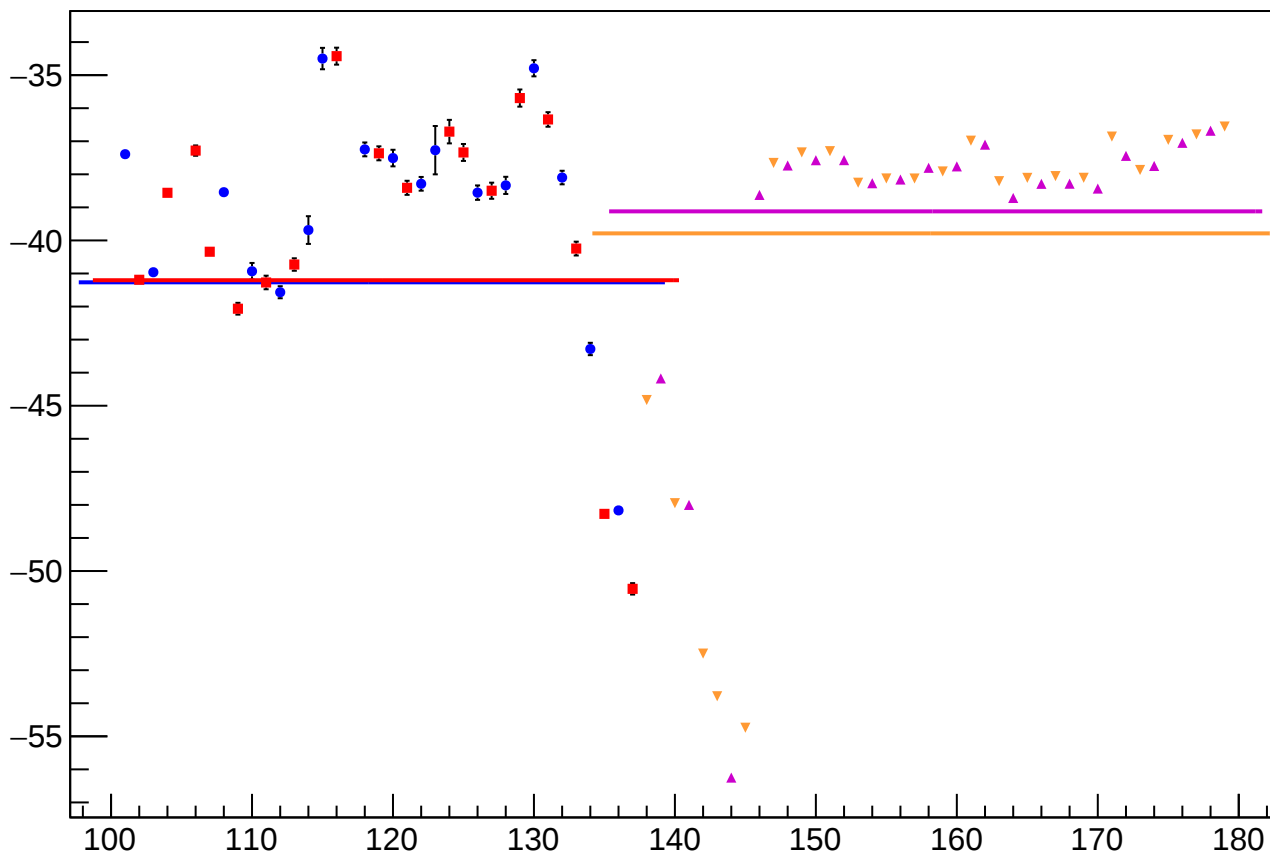
Right: 9.008 $\pm$ 0.517  $\chi^2$ /NDF: 823.3/34

In: 16.004 $\pm$ 0.326  $\chi^2$ /NDF:1325.3/36

Out: 15.939 $\pm$ 0.321  $\chi^2$ /NDF:1690.4/39

All: 15.971 $\pm$ 0.229  $\chi^2$ /NDF: 3015.7/76

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}$ : 12581.8/16

Left Out:  $-39.787 \pm 0.017$   $\chi^2/\text{NDF}$ : 90328.9/21

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}$ : 12008.6/17

Left In:  $-39.121 \pm 0.017$   $\chi^2/\text{NDF}$ : 52851.4/19

Left:  $-39.456 \pm 0.012$   $\chi^2/\text{NDF}$ : 143954.3/41

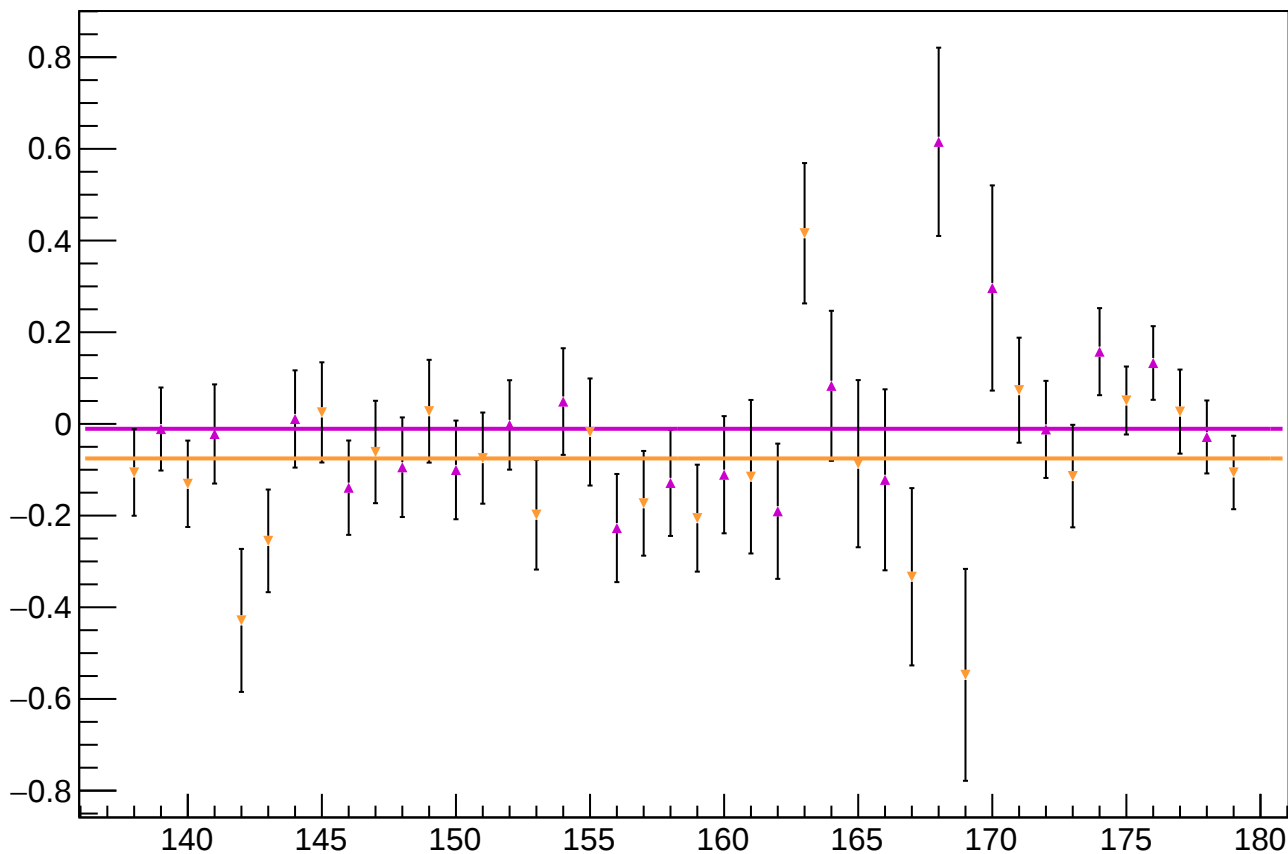
Right:  $-41.236 \pm 0.027$   $\chi^2/\text{NDF}$ : 24591.7/34

In:  $-39.470 \pm 0.016$   $\chi^2/\text{NDF}$ : 68032.1/36

Out:  $-40.011 \pm 0.015$   $\chi^2/\text{NDF}$ : 103457.6/39

All:  $-39.742 \pm 0.011$   $\chi^2/\text{NDF}$ : 172099.0/76

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: -0.075 $\pm$ 0.024  $\chi^2$ /NDF:35.6/21

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

Left In: -0.011 $\pm$ 0.025  $\chi^2$ /NDF:27.9/19

Left: -0.044 $\pm$ 0.017  $\chi^2$ /NDF: 67.0/41

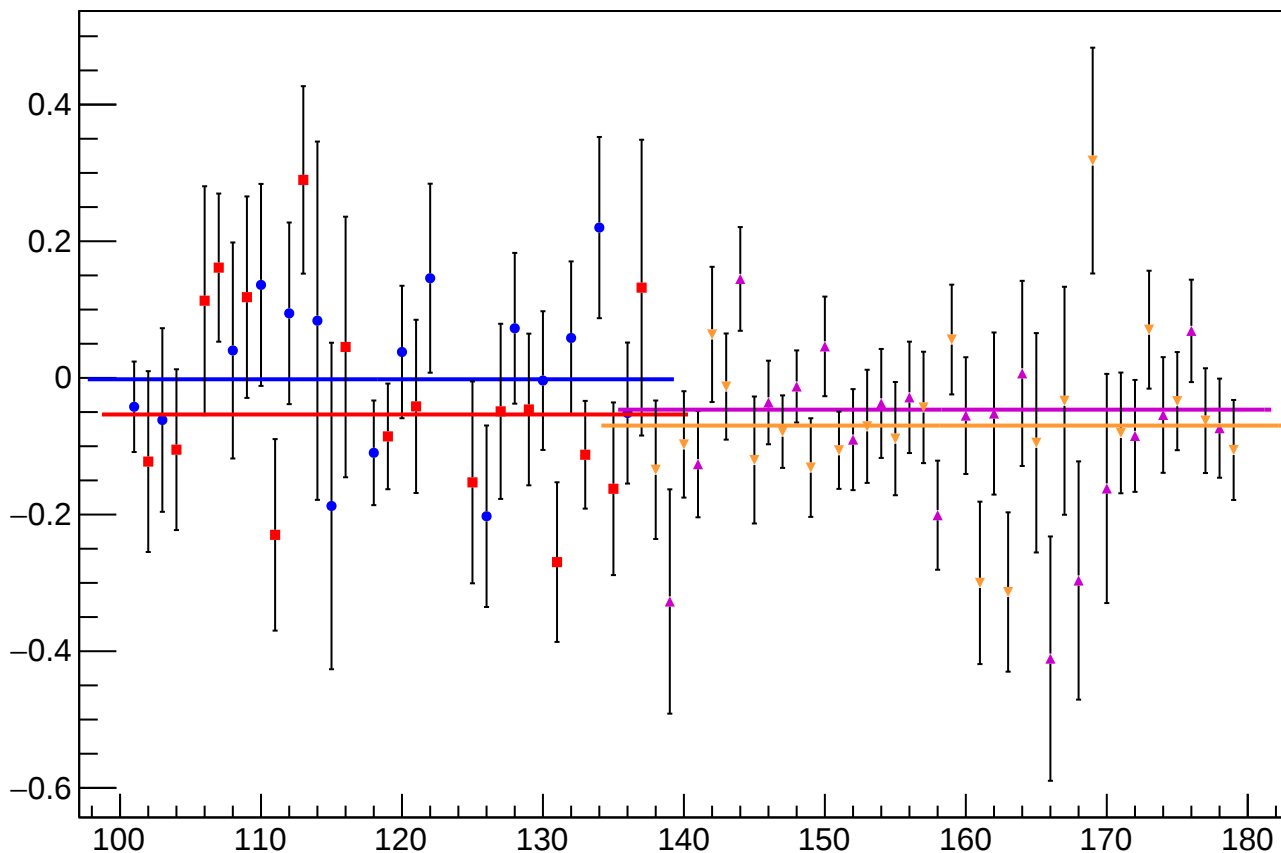
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.011 $\pm$ 0.025  $\chi^2$ /NDF:27.9/19

Out: -0.075 $\pm$ 0.024  $\chi^2$ /NDF:35.6/21

All: -0.044 $\pm$ 0.017  $\chi^2$ /NDF: 67.0/41

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.002 \pm 0.028$   $\chi^2/\text{NDF}$ : 12.1/15

Left Out:  $-0.070 \pm 0.018$   $\chi^2/\text{NDF}$ : 23.8/21

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

Left In:  $-0.046 \pm 0.019$   $\chi^2/\text{NDF}$ : 26.1/19

Left:  $-0.059 \pm 0.013$   $\chi^2/\text{NDF}$ : 50.8/41

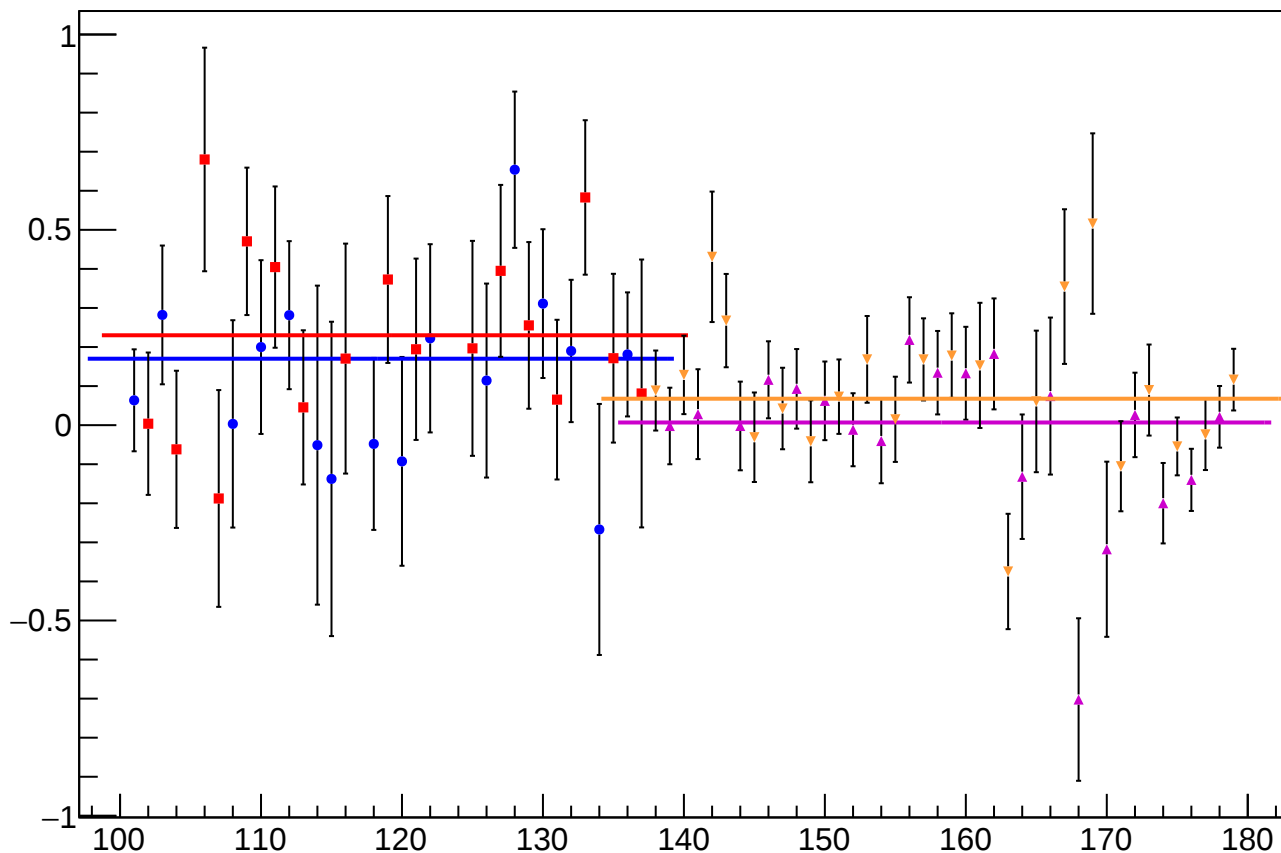
Right:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}$ : 34.6/32

In:  $-0.033 \pm 0.016$   $\chi^2/\text{NDF}$ : 40.0/35

Out:  $-0.065 \pm 0.015$   $\chi^2/\text{NDF}$ : 45.0/38

All:  $-0.050 \pm 0.011$   $\chi^2/\text{NDF}$ : 87.2/74

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.170 $\pm$ 0.052  $\chi^2$ /NDF: 13.0/15

Left Out: 0.068 $\pm$ 0.024  $\chi^2$ /NDF:34.4/21

Right Out: 0.230 $\pm$ 0.054  $\chi^2$ /NDF: 16.8/16

Left In: 0.007 $\pm$ 0.025  $\chi^2$ /NDF:32.4/19

Left: 0.038 $\pm$ 0.017  $\chi^2$ /NDF: 70.0/41

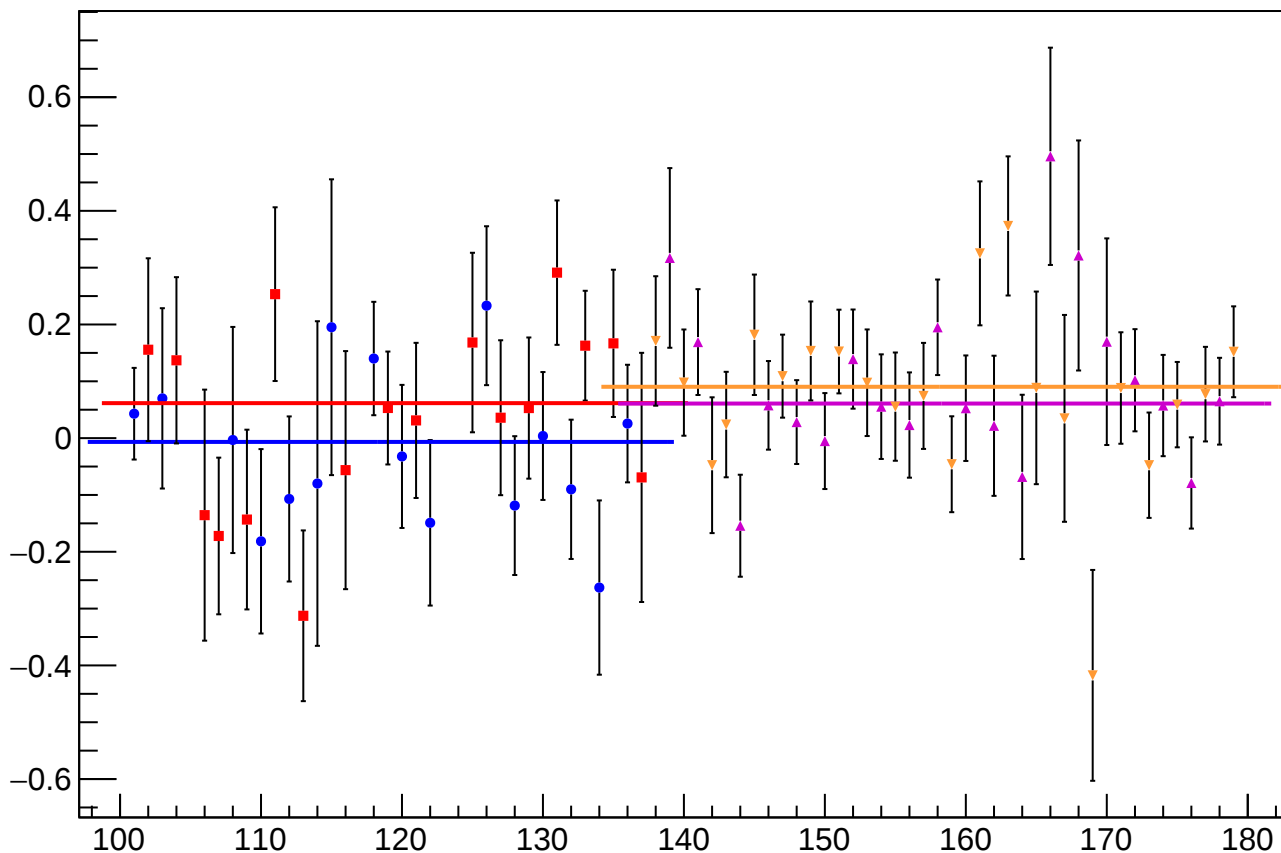
Right: 0.199 $\pm$ 0.038  $\chi^2$ /NDF: 30.5/32

In: 0.036 $\pm$ 0.022  $\chi^2$ /NDF:53.4/35

Out: 0.094 $\pm$ 0.022  $\chi^2$ /NDF:58.8/38

All: 0.066 $\pm$ 0.016  $\chi^2$ /NDF: 115.6/74

reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.090 \pm 0.021$   $\chi^2/\text{NDF}$ : 26.6/21

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

Left In:  $0.061 \pm 0.022$   $\chi^2/\text{NDF}$ : 25.4/19

Left:  $0.076 \pm 0.015$   $\chi^2/\text{NDF}$ : 52.9/41

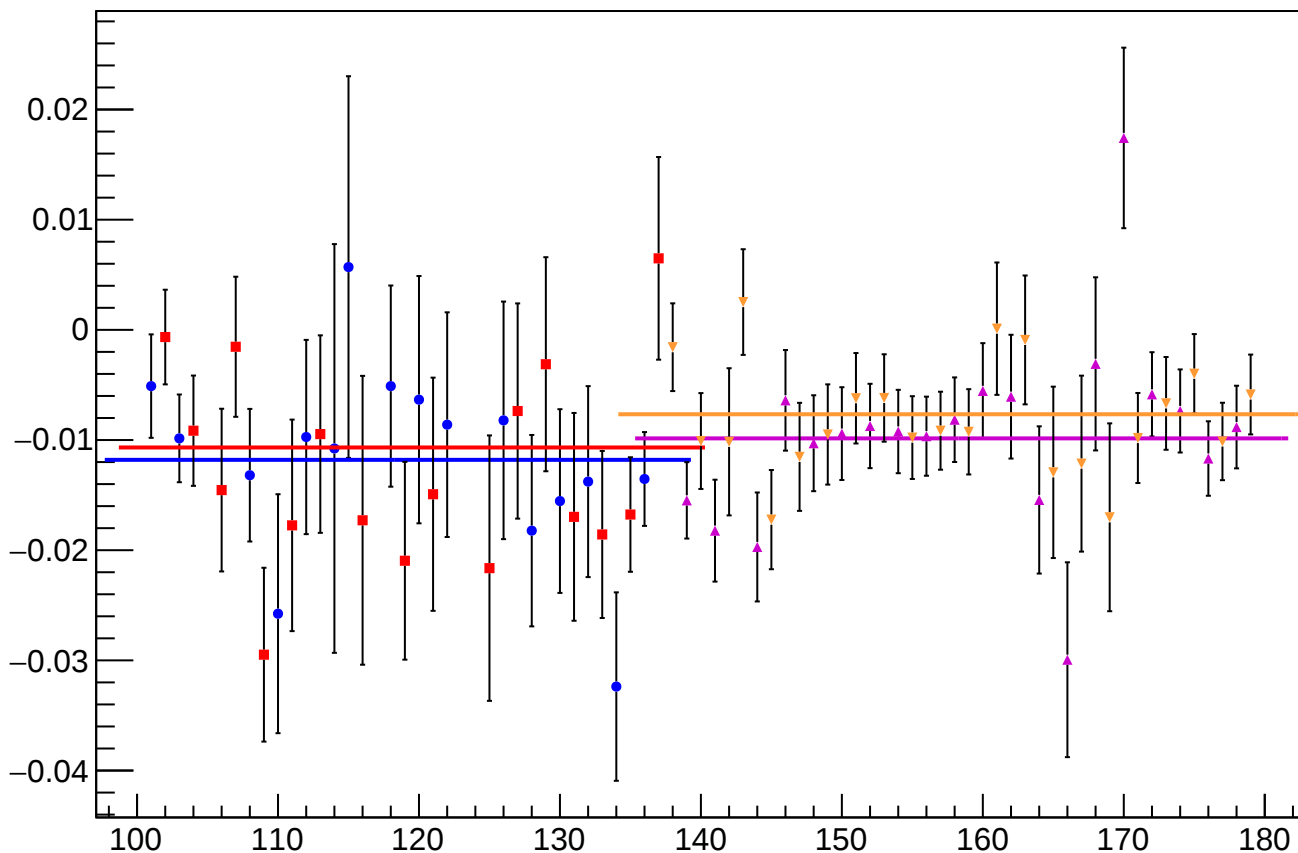
Right:  $0.026 \pm 0.023$   $\chi^2/\text{NDF}$ : 35.3/32

In:  $0.040 \pm 0.018$   $\chi^2/\text{NDF}$ : 41.6/35

Out:  $0.083 \pm 0.018$   $\chi^2/\text{NDF}$ : 47.1/38

All:  $0.062 \pm 0.013$   $\chi^2/\text{NDF}$ : 91.5/74

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 20.6/21

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

Left In:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 31.8/19

Left:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 55.0/41

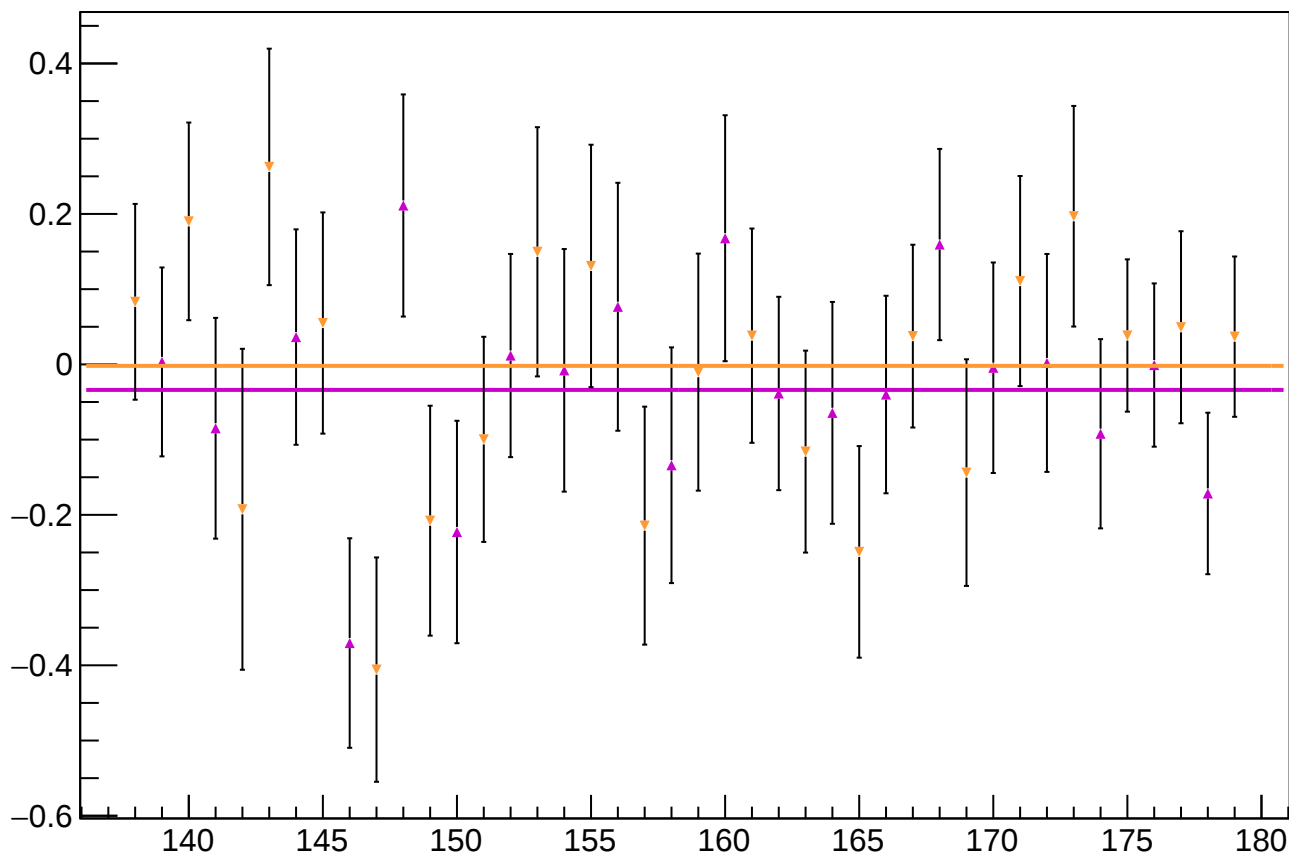
Right:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.8/32

In:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 45.5/35

Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 46.6/38

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 94.9/74

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.002 $\pm$ 0.030  $\chi^2$ /NDF:27.2/21

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

Left In: -0.034 $\pm$ 0.031  $\chi^2$ /NDF:17.6/19

Left: -0.017 $\pm$ 0.021  $\chi^2$ /NDF: 45.3/41

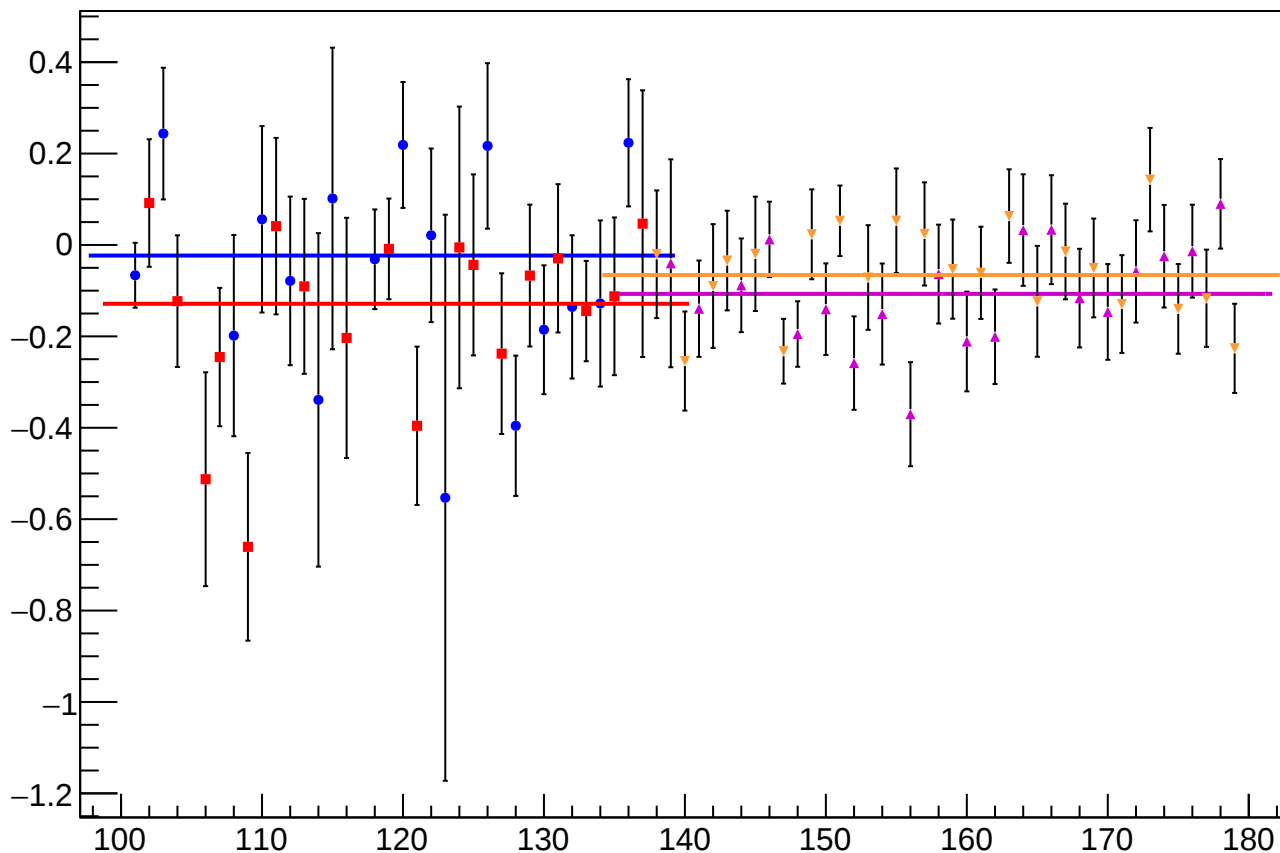
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.034 $\pm$ 0.031  $\chi^2$ /NDF:17.6/19

Out: -0.002 $\pm$ 0.030  $\chi^2$ /NDF:27.2/21

All: -0.017 $\pm$ 0.021  $\chi^2$ /NDF: 45.3/41

reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.023±/0.037  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -0.066±/0.022  $\chi^2/\text{NDF}$ : 23.2/21

Right Out: -0.129±/0.039  $\chi^2/\text{NDF}$ : 18.6/17

Left In: -0.107±/0.023  $\chi^2/\text{NDF}$ : 22.0/19

Left: -0.085±/0.016  $\chi^2/\text{NDF}$ : 46.8/41

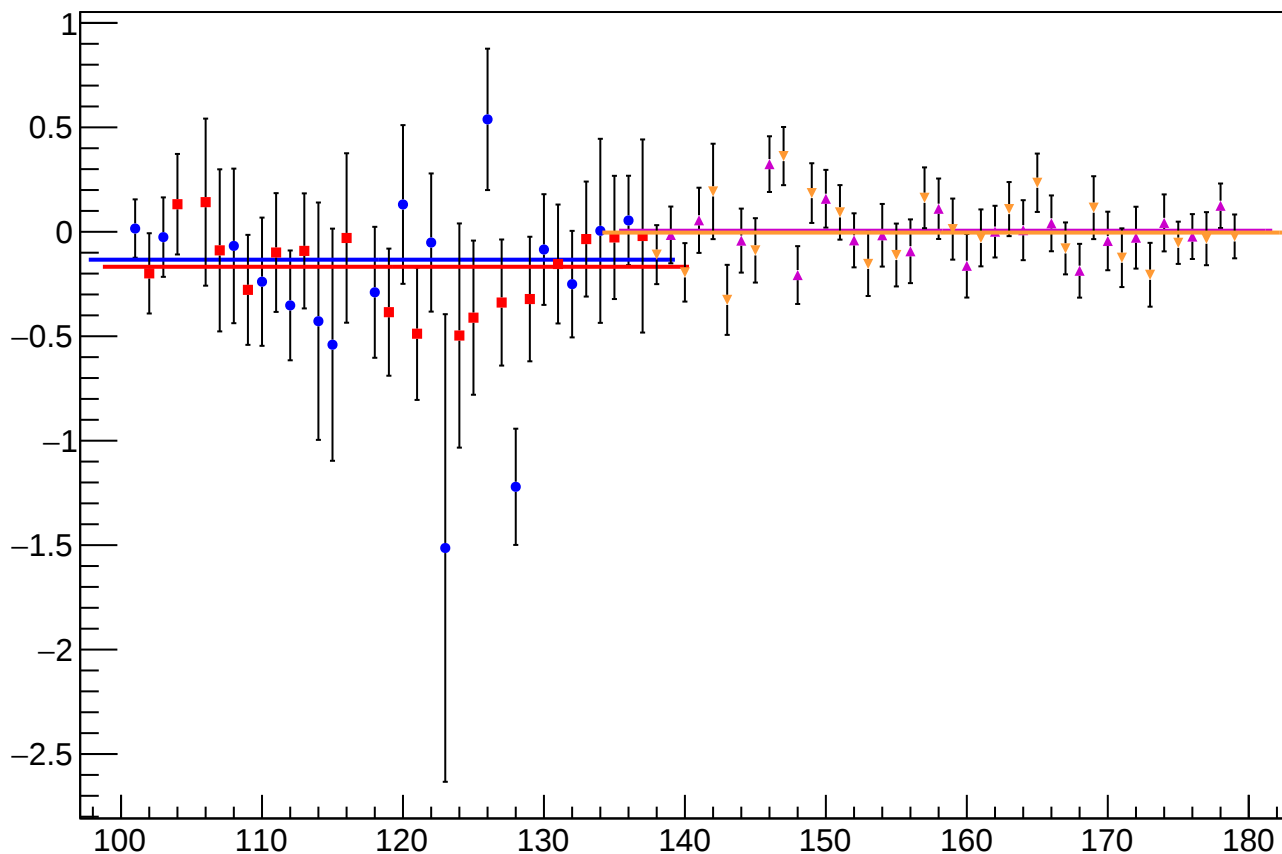
Right: -0.072±/0.027  $\chi^2/\text{NDF}$ : 44.9/34

In: -0.083±/0.020  $\chi^2/\text{NDF}$ : 48.1/36

Out: -0.081±/0.019  $\chi^2/\text{NDF}$ : 43.7/39

All: -0.082±/0.014  $\chi^2/\text{NDF}$ : 91.9/76

reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $-0.004 \pm 0.029$   $\chi^2/\text{NDF}$ : 26.6/21

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

Left In:  $0.005 \pm 0.030$   $\chi^2/\text{NDF}$ : 15.7/19

Left:  $0.001 \pm 0.021$   $\chi^2/\text{NDF}$ : 42.4/41

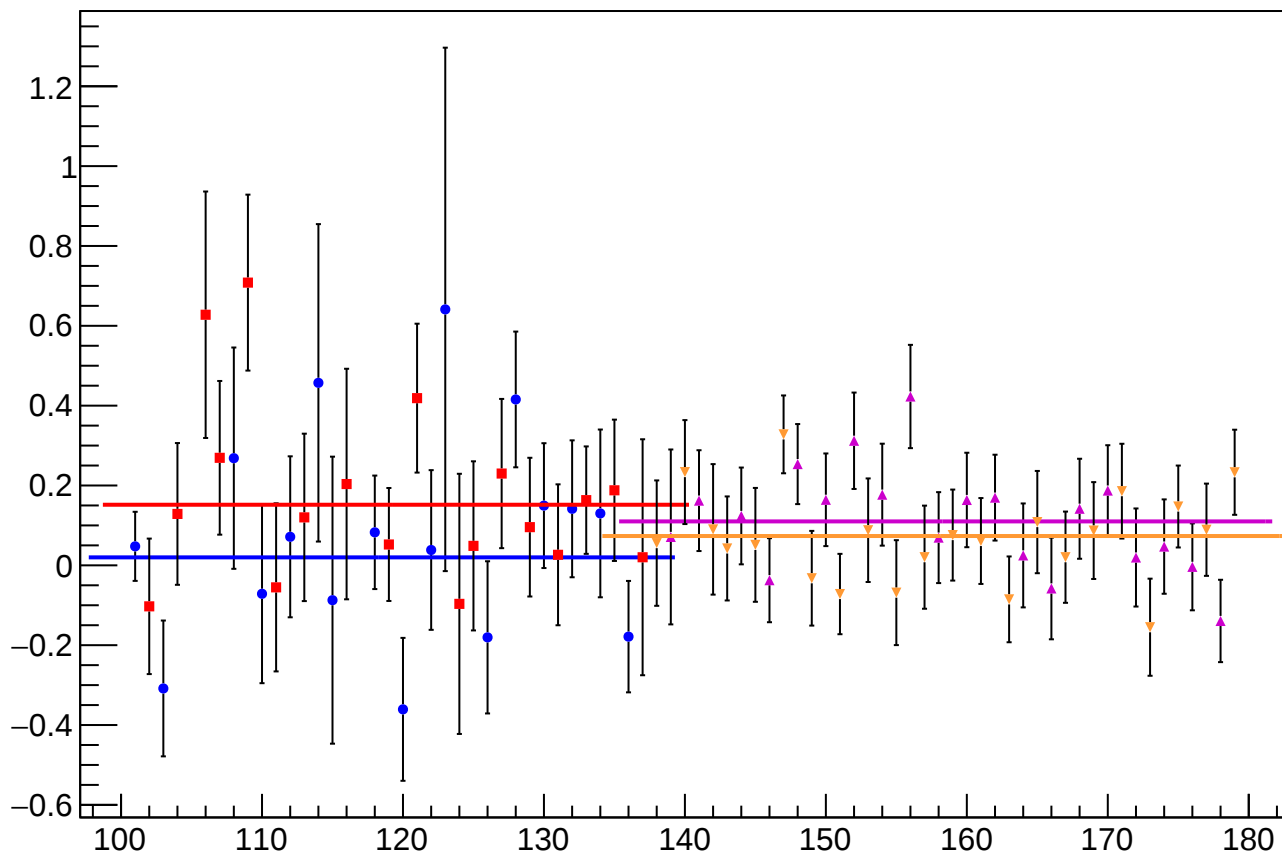
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}$ : 32.0/34

In:  $-0.018 \pm 0.028$   $\chi^2/\text{NDF}$ : 45.0/36

Out:  $-0.028 \pm 0.027$   $\chi^2/\text{NDF}$ : 37.3/39

All:  $-0.023 \pm 0.019$   $\chi^2/\text{NDF}$ : 82.4/76

reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.020 \pm 0.042$   $\chi^2/\text{NDF}: 21.8/16$

Left Out:  $0.073 \pm 0.025$   $\chi^2/\text{NDF}: 22.4/21$

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $0.110 \pm 0.027$   $\chi^2/\text{NDF}: 24.5/19$

Left:  $0.091 \pm 0.018$   $\chi^2/\text{NDF}: 47.8/41$

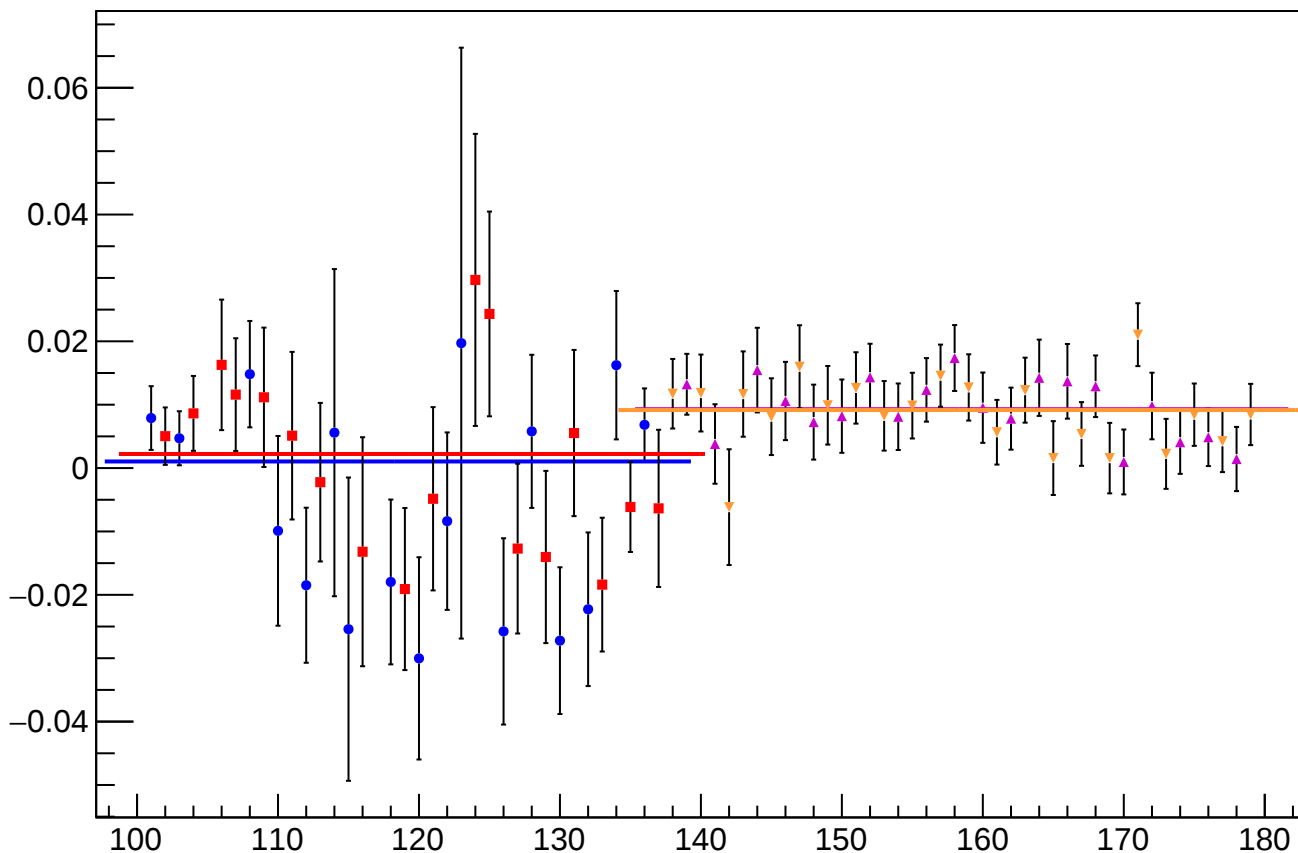
Right:  $0.081 \pm 0.031$   $\chi^2/\text{NDF}: 43.1/34$

In:  $0.085 \pm 0.022$   $\chi^2/\text{NDF}: 49.5/36$

Out:  $0.092 \pm 0.022$   $\chi^2/\text{NDF}: 41.4/39$

All:  $0.088 \pm 0.016$   $\chi^2/\text{NDF}: 91.0/76$

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.001+/-0.002  $\chi^2/\text{NDF}$ : 32.0/16

Left Out: 0.009+/-0.001  $\chi^2/\text{NDF}$ :20.0/21

Right Out: 0.002+/-0.002  $\chi^2/\text{NDF}$ : 20.8/17

Left In: 0.009+/-0.001  $\chi^2/\text{NDF}$ :15.2/19

Left: 0.009+/-0.001  $\chi^2/\text{NDF}$ : 35.2/41

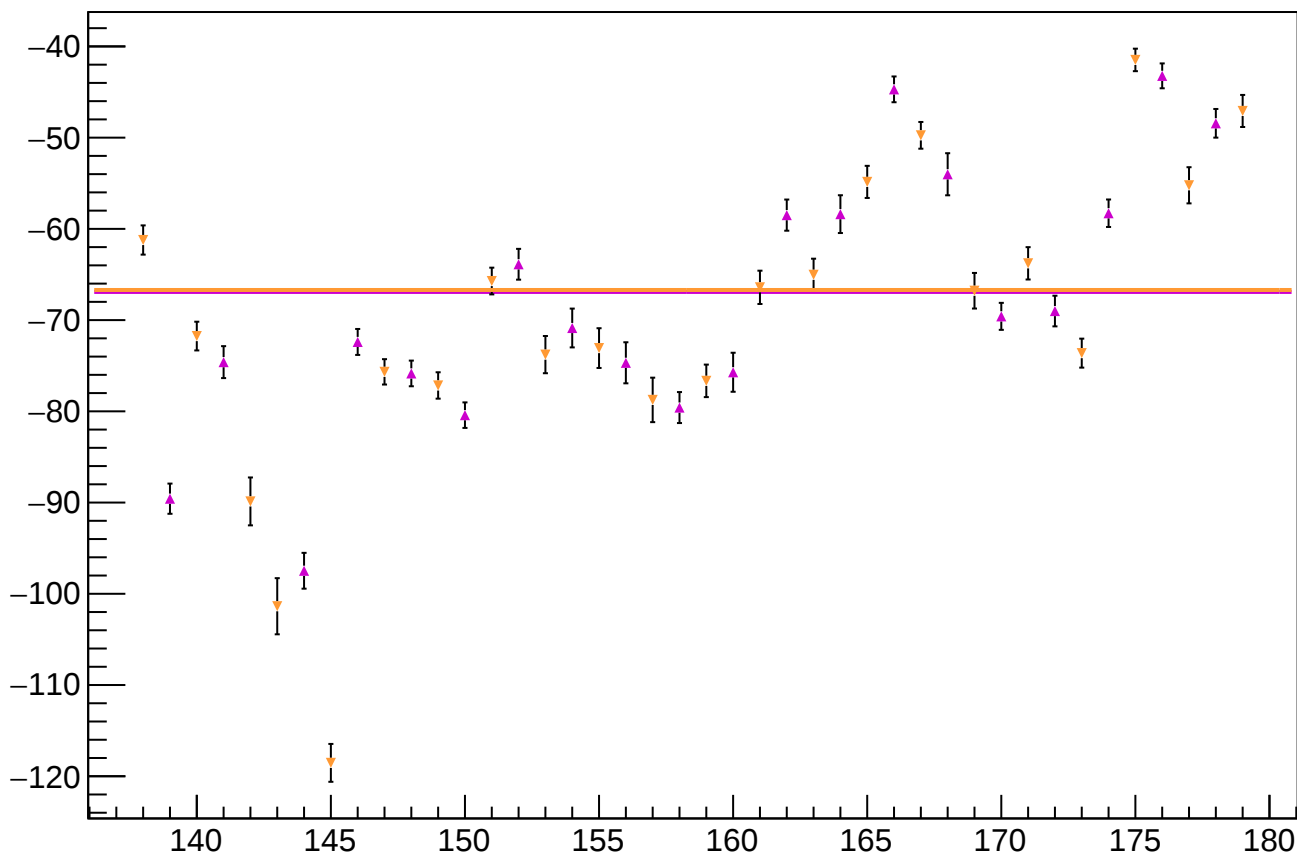
Right: 0.002+/-0.002  $\chi^2/\text{NDF}$ : 53.0/34

In: 0.007+/-0.001  $\chi^2/\text{NDF}$ :57.9/36

Out: 0.008+/-0.001  $\chi^2/\text{NDF}$ :48.1/39

All: 0.008+/-0.001  $\chi^2/\text{NDF}$ : 106.0/76

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: -66.698+/-0.370  $\chi^2/\text{NDF}$ :1799.3/21

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

Left In: -66.912+/-0.371  $\chi^2/\text{NDF}$ :1486.5/19

Left: -66.805+/-0.262  $\chi^2/\text{NDF}$ : 3286.0/41

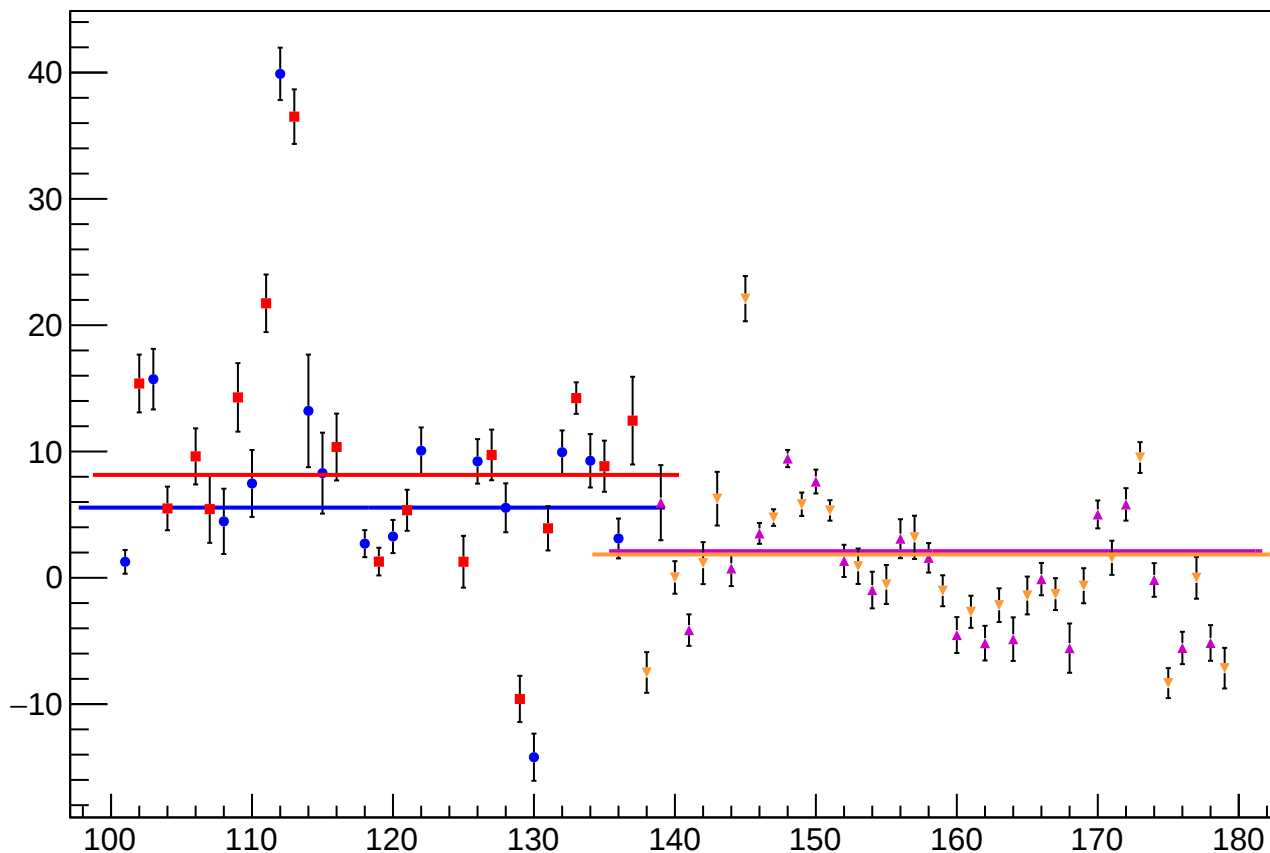
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -66.912+/-0.371  $\chi^2/\text{NDF}$ :1486.5/19

Out: -66.698+/-0.370  $\chi^2/\text{NDF}$ :1799.3/21

All: -66.805+/-0.262  $\chi^2/\text{NDF}$ : 3286.0/41

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.557 $\pm$ 0.424  $\chi^2$ /NDF: 462.0/15

Left Out: 1.847 $\pm$ 0.265  $\chi^2$ /NDF: 415.4/21

Right Out: 8.146 $\pm$ 0.454  $\chi^2$ /NDF: 406.8/16

Left In: 2.110 $\pm$ 0.271  $\chi^2$ /NDF: 350.9/19

Left: 1.975 $\pm$ 0.190  $\chi^2$ /NDF: 766.8/41

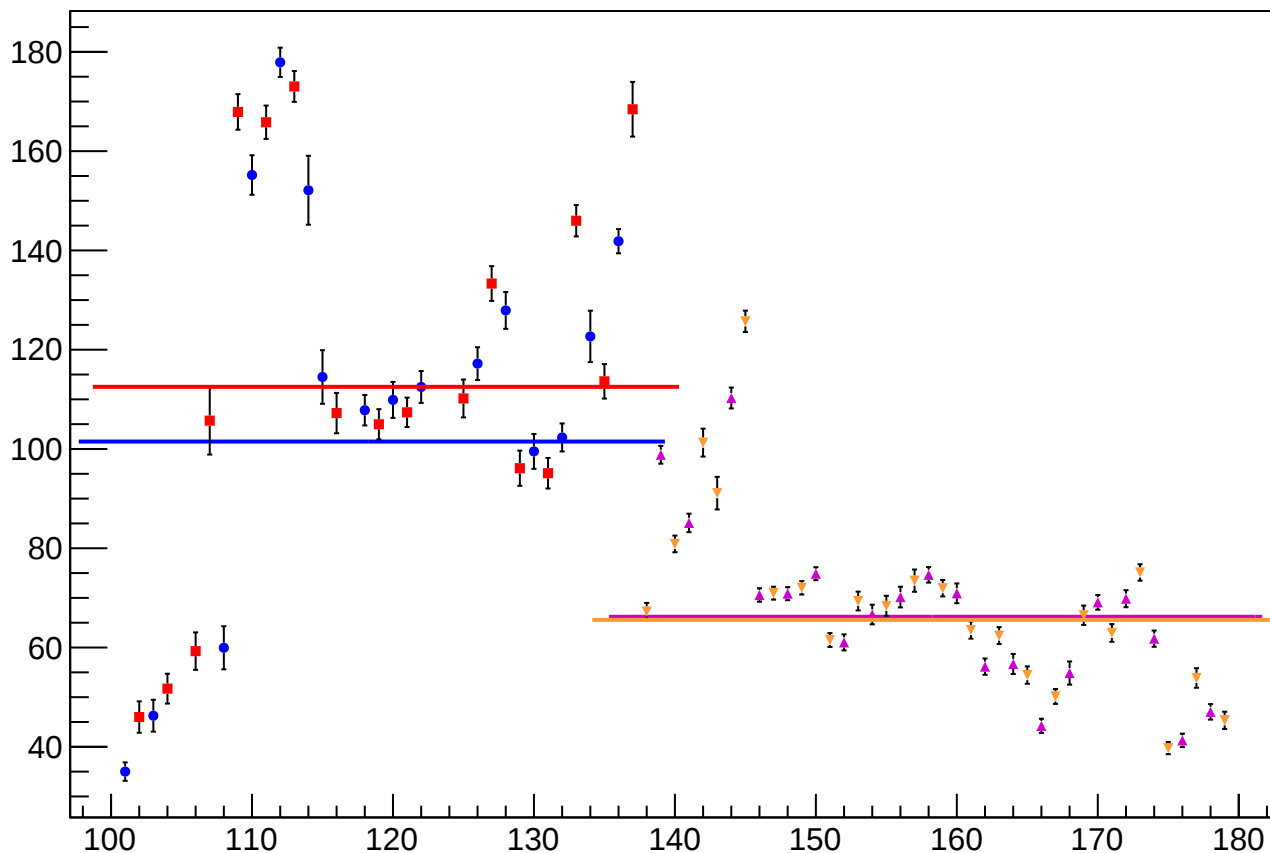
Right: 6.763 $\pm$ 0.310  $\chi^2$ /NDF: 886.1/32

In: 3.111 $\pm$ 0.229  $\chi^2$ /NDF: 859.8/35

Out: 3.444 $\pm$ 0.229  $\chi^2$ /NDF: 965.7/38

All: 3.277 $\pm$ 0.162  $\chi^2$ /NDF: 1826.6/74

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $101.496 \pm 0.808$   $\chi^2/\text{NDF}: 2973.0/15$

Left Out:  $65.571 \pm 0.365$   $\chi^2/\text{NDF}: 1966.2/21$

Right Out:  $112.521 \pm 0.843$   $\chi^2/\text{NDF}: 2236.9/16$

Left In:  $66.197 \pm 0.366$   $\chi^2/\text{NDF}: 1814.7/19$

Left:  $65.883 \pm 0.258$   $\chi^2/\text{NDF}: 3782.4/41$

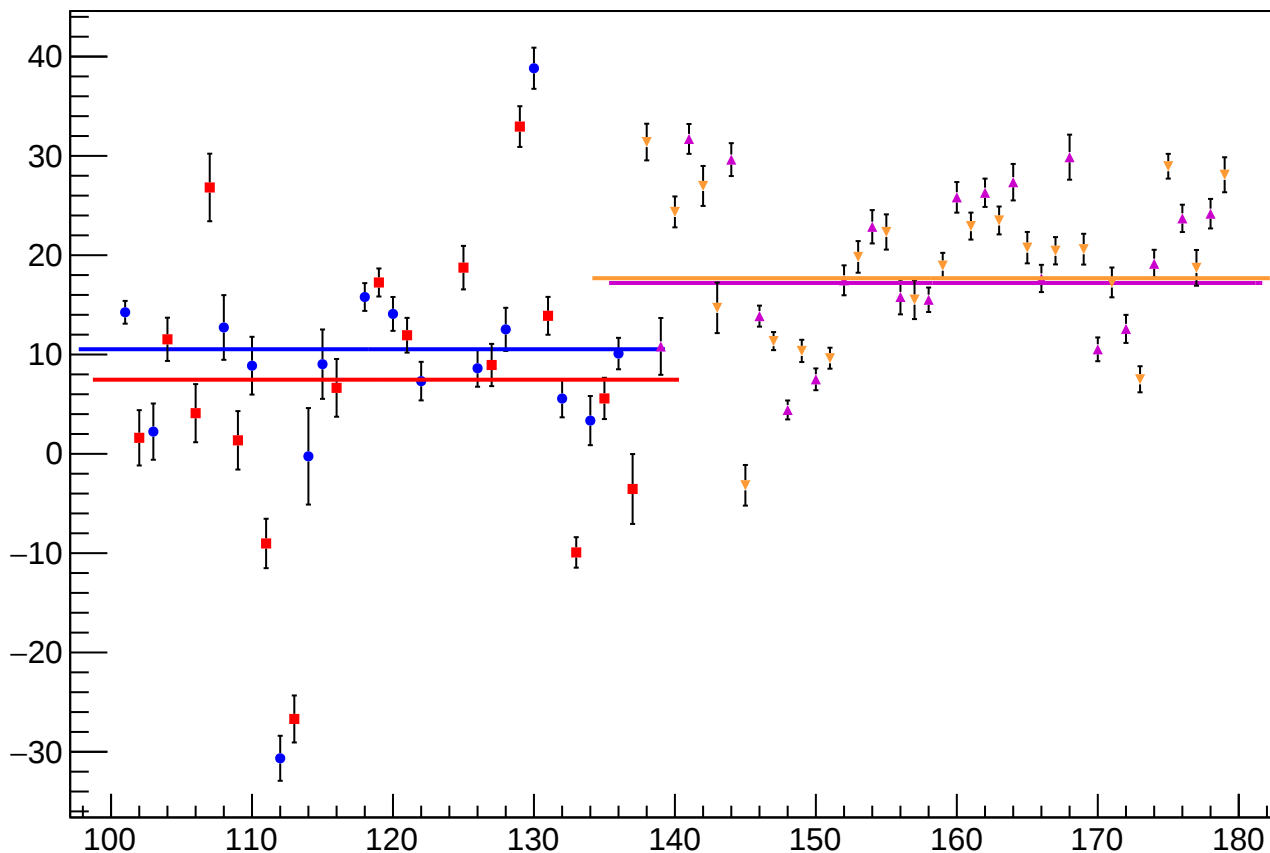
Right:  $106.775 \pm 0.583$   $\chi^2/\text{NDF}: 5299.0/32$

In:  $72.203 \pm 0.333$   $\chi^2/\text{NDF}: 6370.5/35$

Out:  $72.985 \pm 0.335$   $\chi^2/\text{NDF}: 6813.8/38$

All:  $72.592 \pm 0.236$   $\chi^2/\text{NDF}: 13187.0/74$

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $10.532 \pm 0.493$   $\chi^2/\text{NDF}: 580.3/15$

Left Out:  $17.685 \pm 0.308$   $\chi^2/\text{NDF}: 581.4/21$

Right Out:  $7.466 \pm 0.525$   $\chi^2/\text{NDF}: 685.0/16$

Left In:  $17.205 \pm 0.314$   $\chi^2/\text{NDF}: 658.2/19$

Left:  $17.449 \pm 0.220$   $\chi^2/\text{NDF}: 1240.8/41$

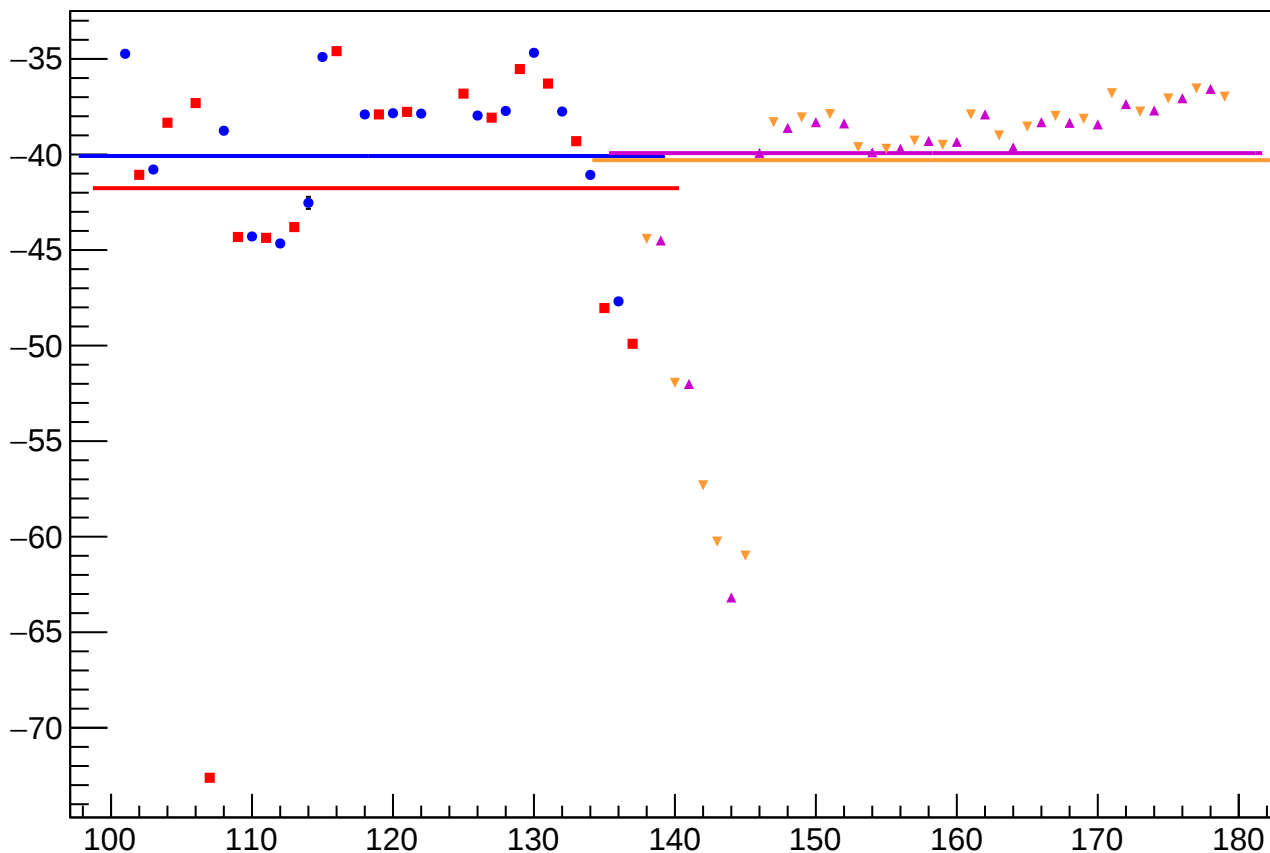
Right:  $9.096 \pm 0.359$   $\chi^2/\text{NDF}: 1283.4/32$

In:  $15.281 \pm 0.265$   $\chi^2/\text{NDF}: 1369.0/35$

Out:  $15.065 \pm 0.266$   $\chi^2/\text{NDF}: 1548.0/38$

All:  $15.173 \pm 0.188$   $\chi^2/\text{NDF}: 2917.3/74$

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-40.079 \pm 0.028$   $\chi^2/\text{NDF}: 25147.0/15$

Left Out:  $-40.298 \pm 0.015$   $\chi^2/\text{NDF}: 154351.0/21$

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}: 60249.3/16$

Left In:  $-39.929 \pm 0.015$   $\chi^2/\text{NDF}: 107103.7/19$

Left:  $-40.112 \pm 0.010$   $\chi^2/\text{NDF}: 261769.9/41$

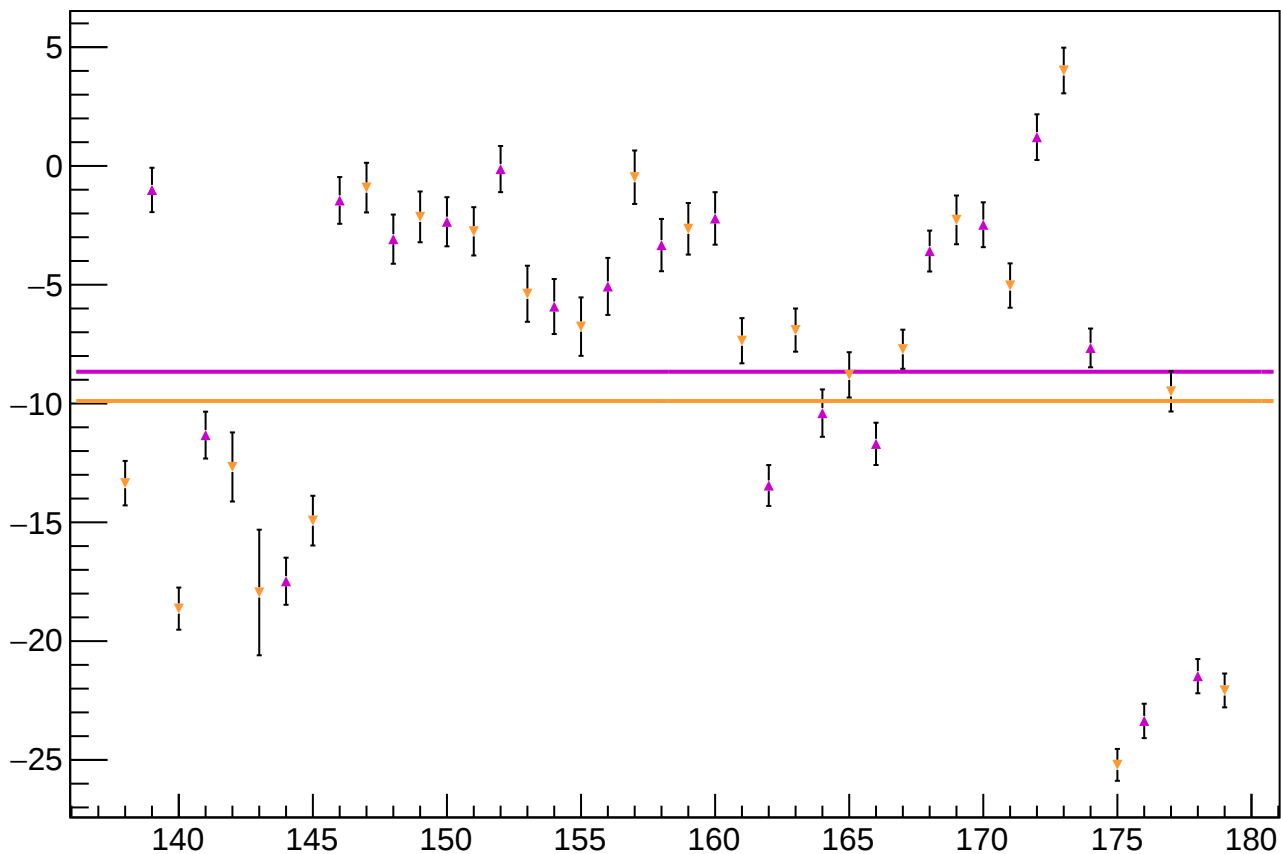
Right:  $-40.903 \pm 0.020$   $\chi^2/\text{NDF}: 87139.1/32$

In:  $-39.961 \pm 0.013$   $\chi^2/\text{NDF}: 132272.7/35$

Out:  $-40.600 \pm 0.013$   $\chi^2/\text{NDF}: 216649.0/38$

All:  $-40.277 \pm 0.009$   $\chi^2/\text{NDF}: 350123.1/74$

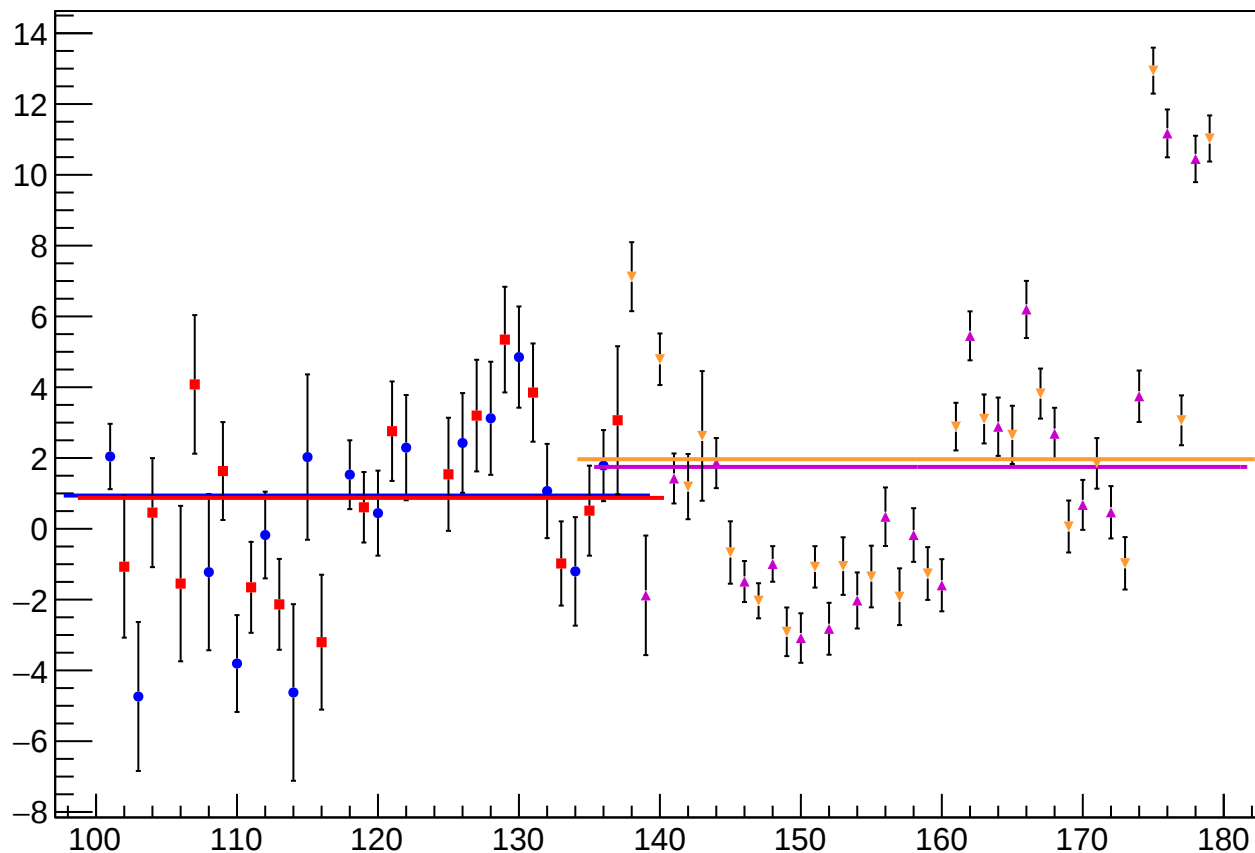
reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-9.895 \pm 0.207$   $\chi^2/\text{NDF}: 1590.2/21$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-8.662 \pm 0.210$   $\chi^2/\text{NDF}: 1382.7/19$

Left:  $-9.287 \pm 0.147$   $\chi^2/\text{NDF}: 2990.5/41$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-8.662 \pm 0.210$   $\chi^2/\text{NDF}: 1382.7/19$   
 Out:  $-9.895 \pm 0.207$   $\chi^2/\text{NDF}: 1590.2/21$   
 All:  $-9.287 \pm 0.147$   $\chi^2/\text{NDF}: 2990.5/41$

reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.939 \pm 0.339$   $\chi^2/\text{NDF}: 42.2/15$

Left Out:  $1.966 \pm 0.156$   $\chi^2/\text{NDF}: 782.4/21$

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$

Left In:  $1.748 \pm 0.160$   $\chi^2/\text{NDF}: 651.0/19$

Left:  $1.860 \pm 0.112$   $\chi^2/\text{NDF}: 1434.4/41$

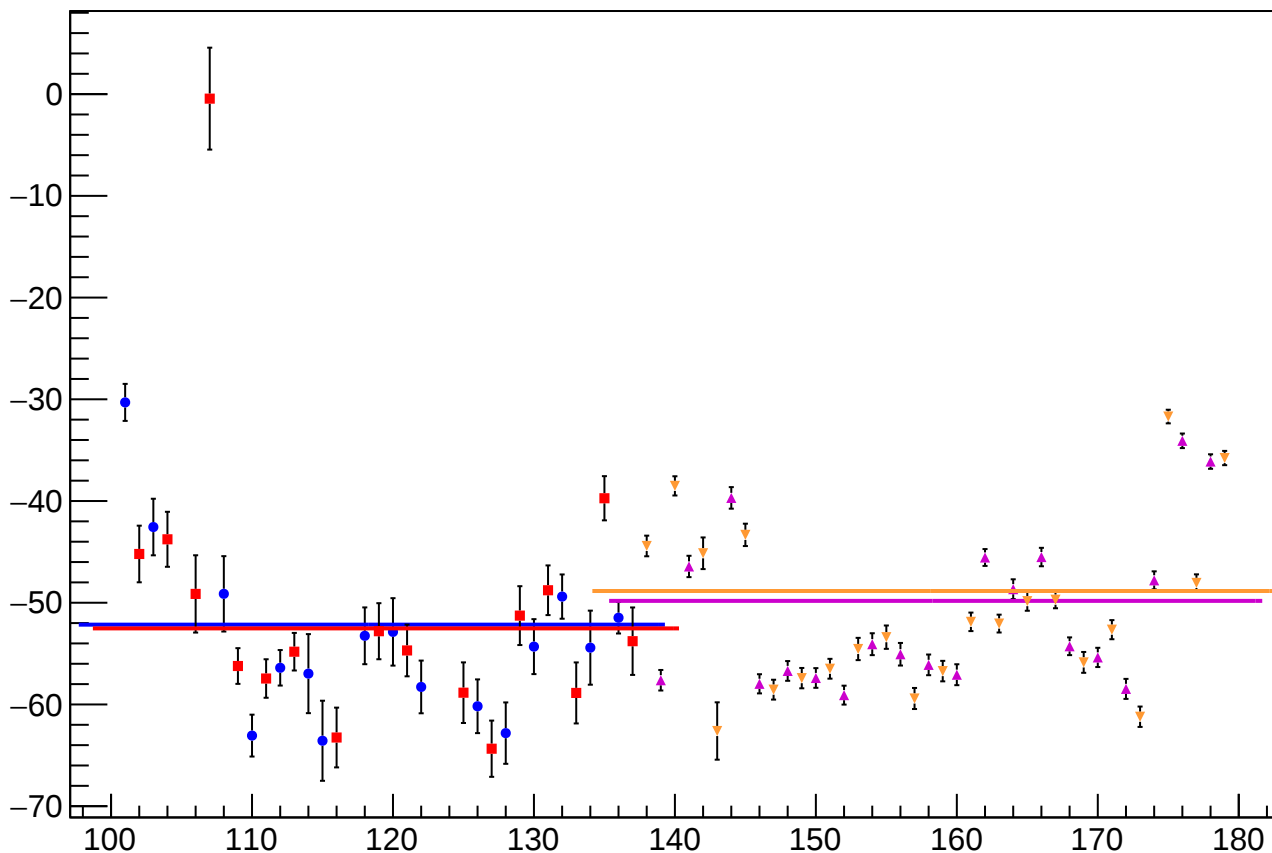
Right:  $0.908 \pm 0.245$   $\chi^2/\text{NDF}: 82.8/32$

In:  $1.601 \pm 0.145$   $\chi^2/\text{NDF}: 697.9/35$

Out:  $1.789 \pm 0.143$   $\chi^2/\text{NDF}: 831.0/38$

All:  $1.696 \pm 0.102$   $\chi^2/\text{NDF}: 1529.7/74$

reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

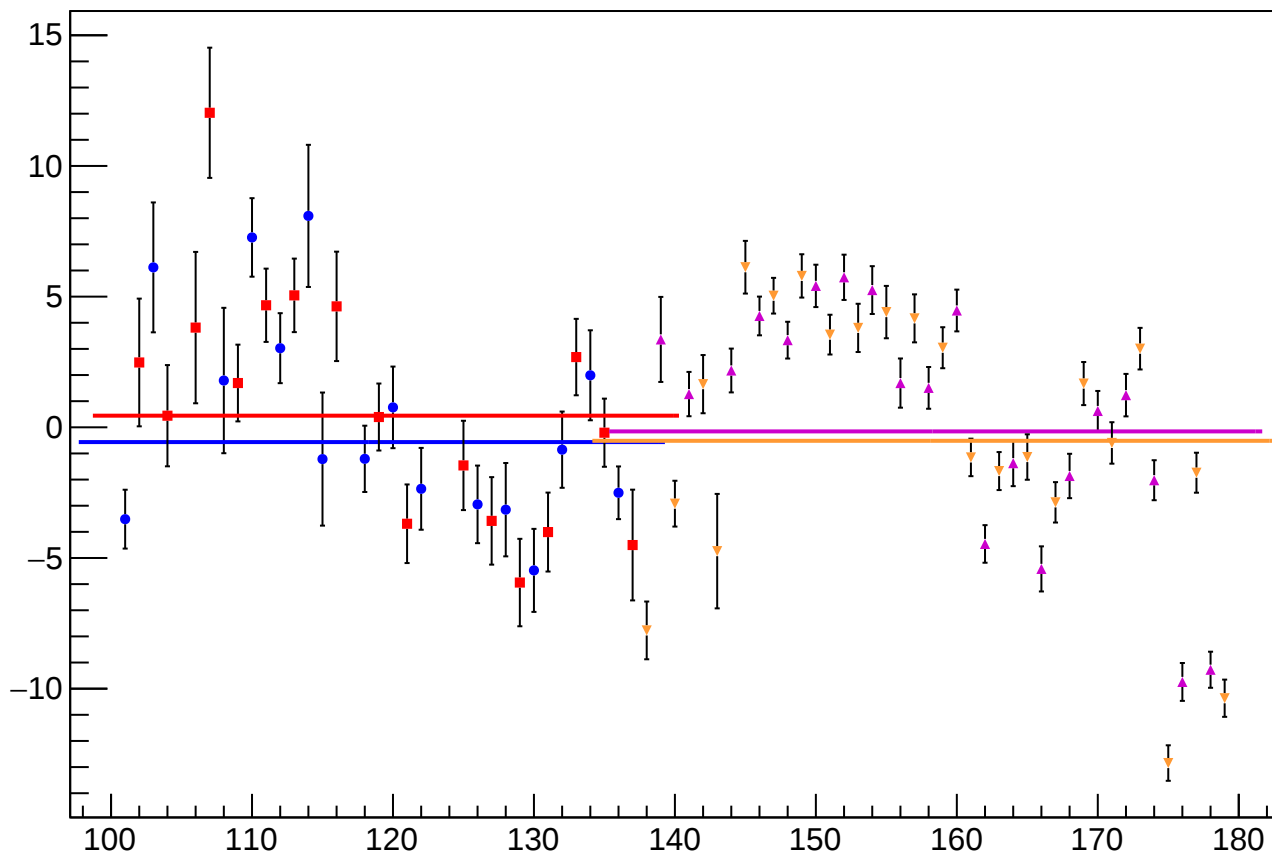


Right In:  $-52.154 \pm 0.613$   $\chi^2/\text{NDF}$ : 231.1/15  
 Left Out:  $-48.847 \pm 0.205$   $\chi^2/\text{NDF}$ : 1880.0/21  
 Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16  
 Left In:  $-49.817 \pm 0.208$   $\chi^2/\text{NDF}$ : 1617.6/19

Left:  $-49.325 \pm 0.146$   $\chi^2/\text{NDF}$ : 3508.6/41  
 Right:  $-52.337 \pm 0.435$   $\chi^2/\text{NDF}$ : 449.0/32  
 In:  $-50.058 \pm 0.197$   $\chi^2/\text{NDF}$ : 1861.7/35  
 Out:  $-49.210 \pm 0.194$   $\chi^2/\text{NDF}$ : 2129.6/38

All:  $-49.629 \pm 0.138$   $\chi^2/\text{NDF}$ : 4000.6/74

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.565 \pm 0.384$   $\chi^2/\text{NDF}$ : 81.8/15

Left Out:  $-0.516 \pm 0.177$   $\chi^2/\text{NDF}$ : 909.9/21

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

Left In:  $-0.157 \pm 0.182$   $\chi^2/\text{NDF}$ : 684.0/19

Left:  $-0.341 \pm 0.127$   $\chi^2/\text{NDF}$ : 1595.8/41

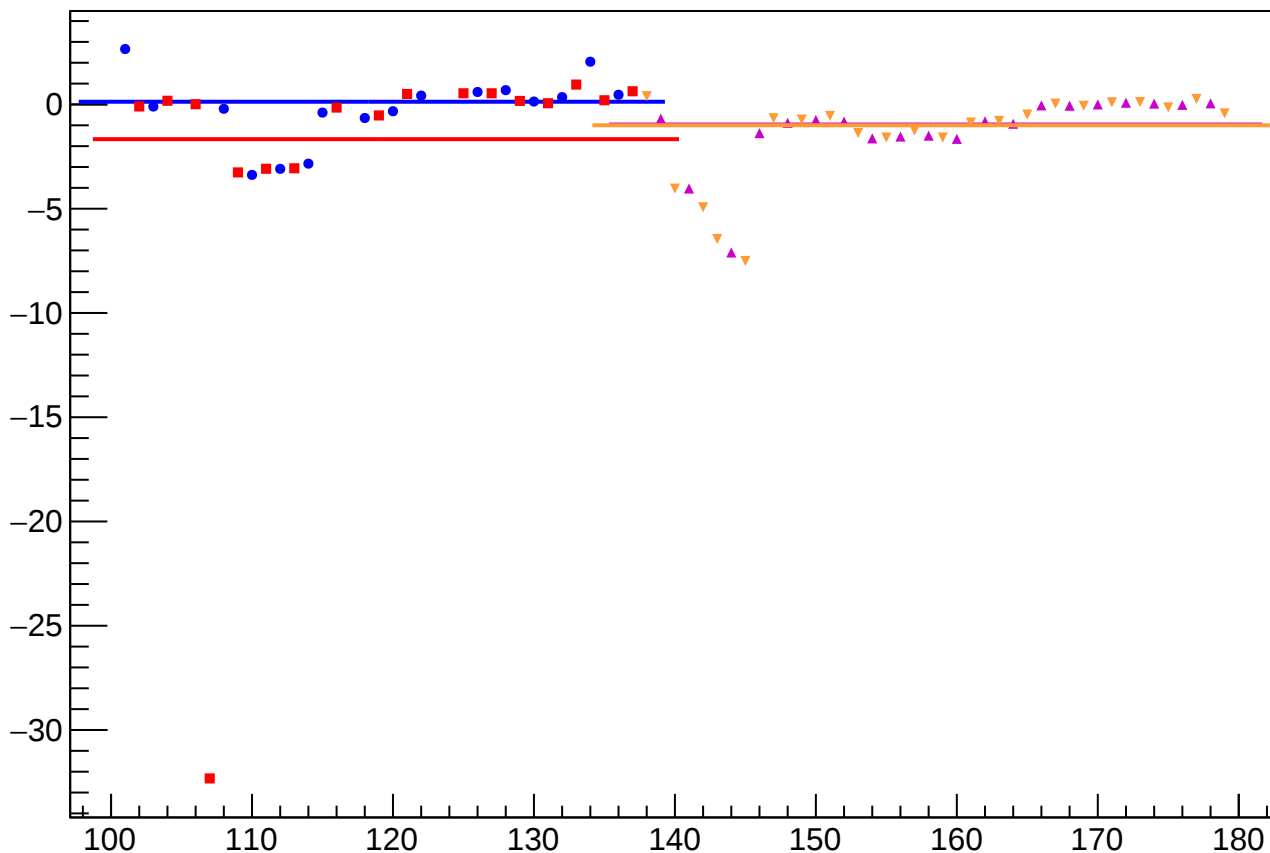
Right:  $-0.080 \pm 0.277$   $\chi^2/\text{NDF}$ : 179.3/32

In:  $-0.231 \pm 0.164$   $\chi^2/\text{NDF}$ : 766.7/35

Out:  $-0.358 \pm 0.162$   $\chi^2/\text{NDF}$ : 1008.8/38

All:  $-0.296 \pm 0.115$   $\chi^2/\text{NDF}$ : 1775.8/74

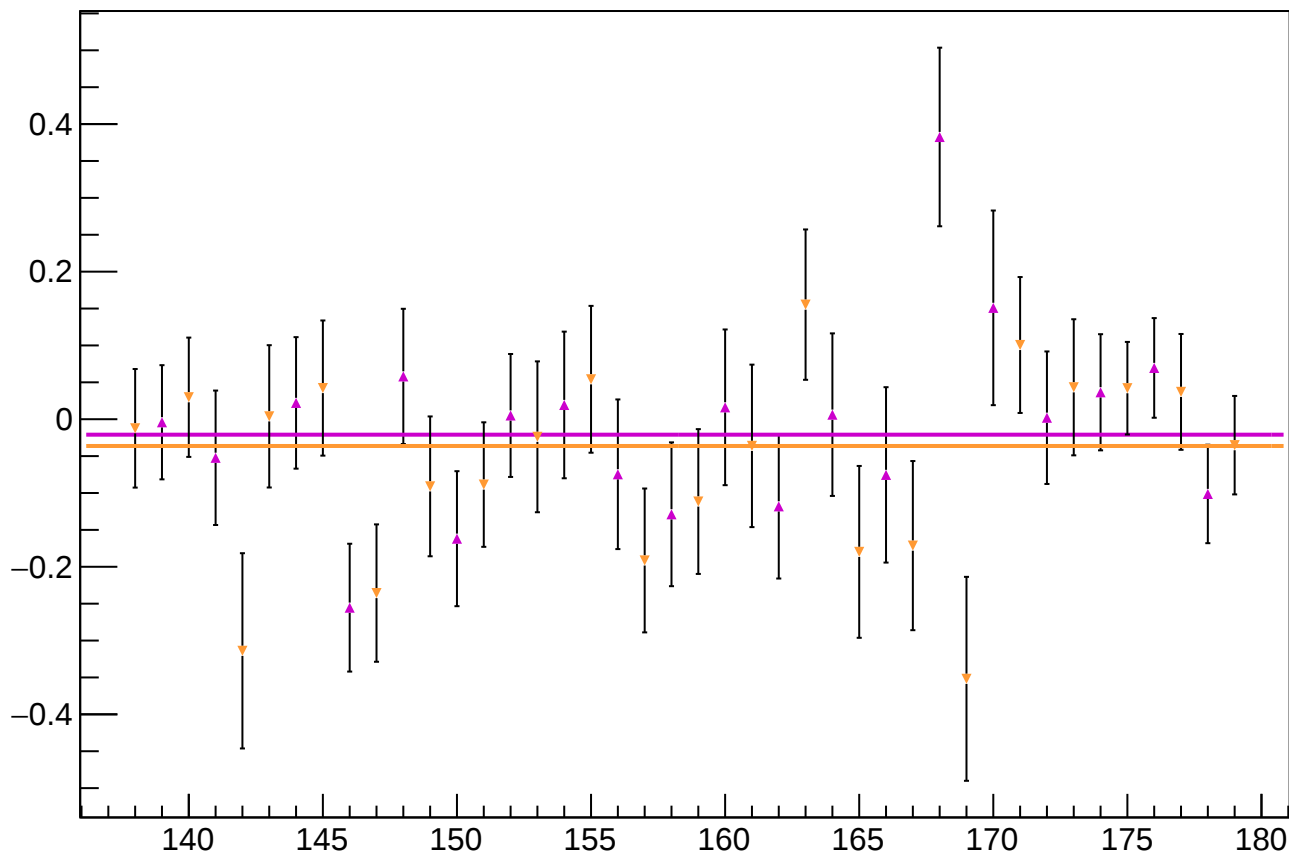
reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.130 \pm 0.022$   $\chi^2/\text{NDF}: 5232.9/15$   
 Left Out:  $-0.998 \pm 0.008$   $\chi^2/\text{NDF}: 42890.3/21$   
 Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}: 77602.8/16$   
 Left In:  $-0.962 \pm 0.008$   $\chi^2/\text{NDF}: 29906.6/19$

Left:  $-0.980 \pm 0.006$   $\chi^2/\text{NDF}: 72806.4/41$   
 Right:  $-0.752 \pm 0.015$   $\chi^2/\text{NDF}: 86255.5/32$   
 In:  $-0.823 \pm 0.008$   $\chi^2/\text{NDF}: 37389.6/35$   
 Out:  $-1.079 \pm 0.008$   $\chi^2/\text{NDF}: 121307.3/38$   
 All:  $-0.952 \pm 0.005$   $\chi^2/\text{NDF}: 159256.2/74$

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.036+/-0.020  $\chi^2/\text{NDF}$ :32.4/21

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

Left In: -0.021+/-0.020  $\chi^2/\text{NDF}$ :30.6/19

Left: -0.029+/-0.014  $\chi^2/\text{NDF}$ : 63.3/41

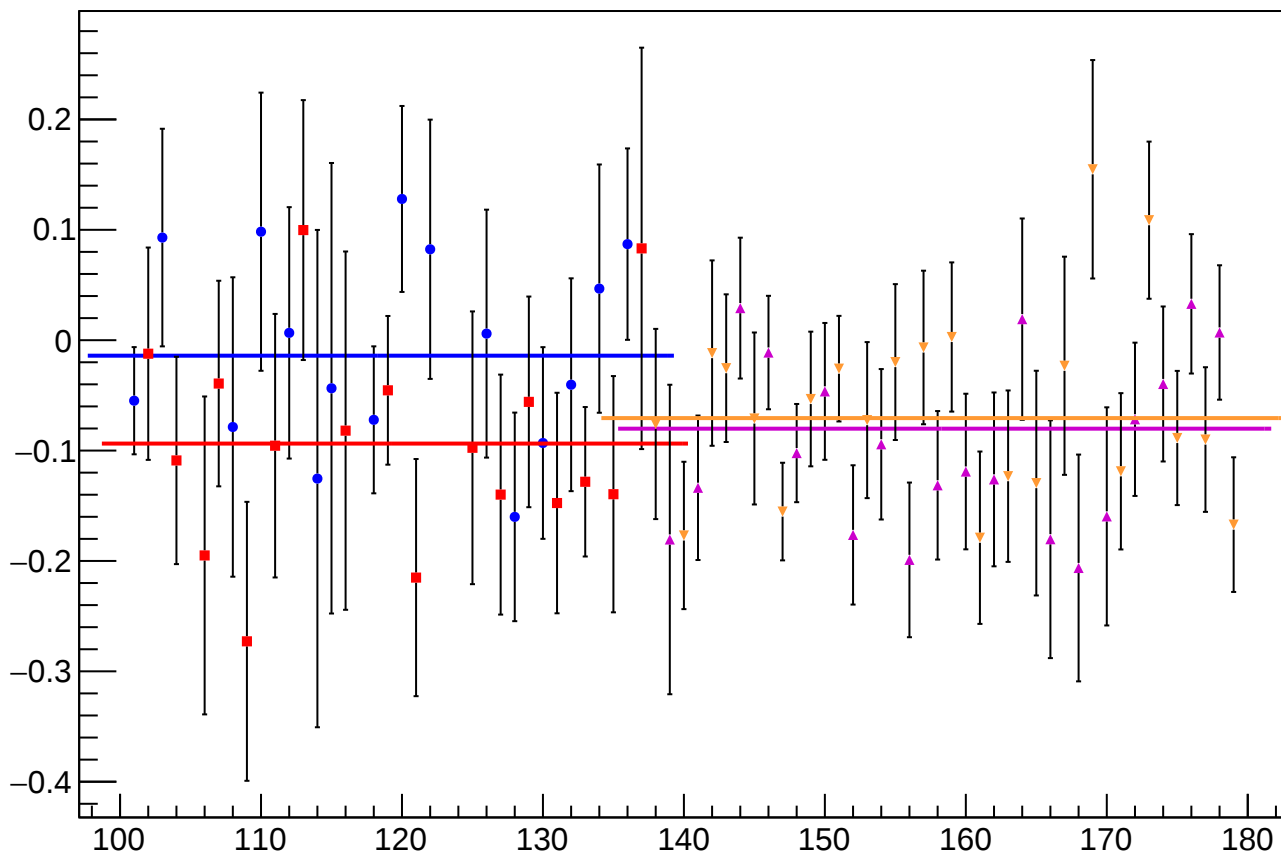
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.021+/-0.020  $\chi^2/\text{NDF}$ :30.6/19

Out: -0.036+/-0.020  $\chi^2/\text{NDF}$ :32.4/21

All: -0.029+/-0.014  $\chi^2/\text{NDF}$ : 63.3/41

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.014 \pm 0.023$   $\chi^2/\text{NDF}$ : 12.5/15

Left Out:  $-0.071 \pm 0.015$   $\chi^2/\text{NDF}$ : 28.3/21

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

Left In:  $-0.080 \pm 0.015$   $\chi^2/\text{NDF}$ : 22.7/19

Left:  $-0.075 \pm 0.011$   $\chi^2/\text{NDF}$ : 51.2/41

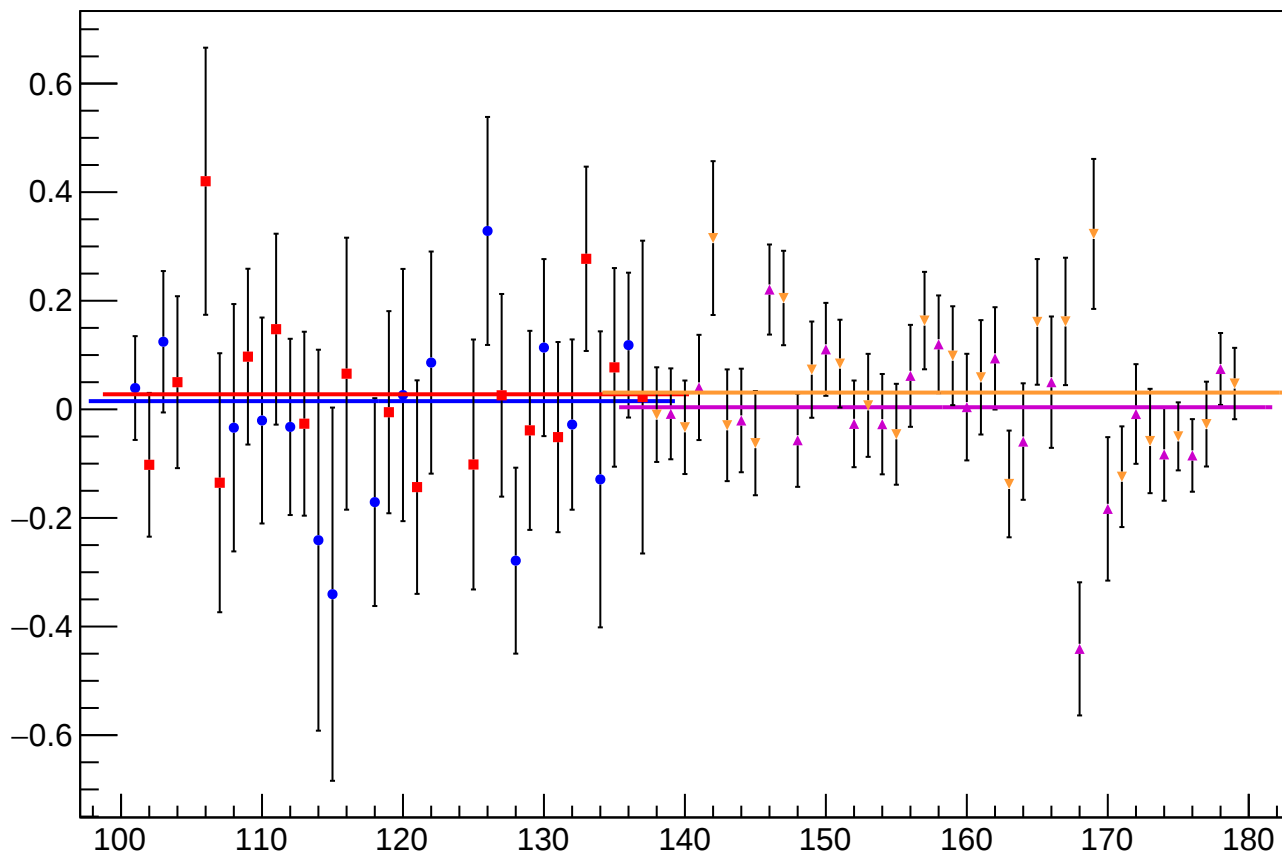
Right:  $-0.051 \pm 0.017$   $\chi^2/\text{NDF}$ : 28.1/32

In:  $-0.060 \pm 0.013$   $\chi^2/\text{NDF}$ : 40.8/35

Out:  $-0.076 \pm 0.013$   $\chi^2/\text{NDF}$ : 39.0/38

All:  $-0.068 \pm 0.009$   $\chi^2/\text{NDF}$ : 80.7/74

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.043  $\chi^2$ /NDF: 10.1/15

Left Out: 0.031 $\pm$ 0.019  $\chi^2$ /NDF:30.2/21

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

Left In: 0.004 $\pm$ 0.020  $\chi^2$ /NDF:31.9/19

Left: 0.018 $\pm$ 0.014  $\chi^2$ /NDF: 63.0/41

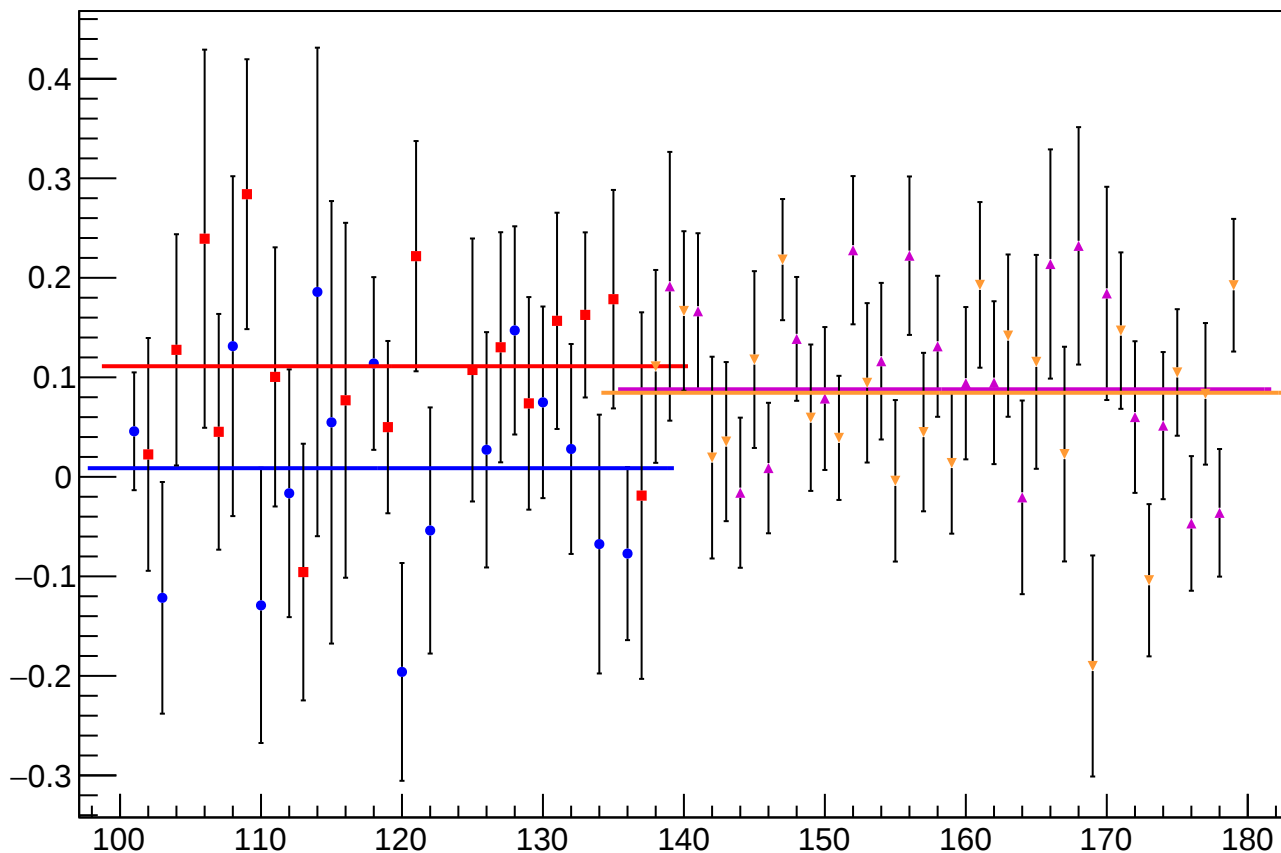
Right: 0.021 $\pm$ 0.031  $\chi^2$ /NDF: 18.6/32

In: 0.006 $\pm$ 0.018  $\chi^2$ /NDF:42.1/35

Out: 0.030 $\pm$ 0.018  $\chi^2$ /NDF:38.6/38

All: 0.018 $\pm$ 0.013  $\chi^2$ /NDF: 81.6/74

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.027  $\chi^2$ /NDF: 12.6/15

Left Out: 0.084 $\pm$ 0.017  $\chi^2$ /NDF:28.1/21

Right Out: 0.111 $\pm$ 0.029  $\chi^2$ /NDF: 8.6/16

Left In: 0.088 $\pm$ 0.018  $\chi^2$ /NDF:25.3/19

Left: 0.086 $\pm$ 0.012  $\chi^2$ /NDF: 53.4/41

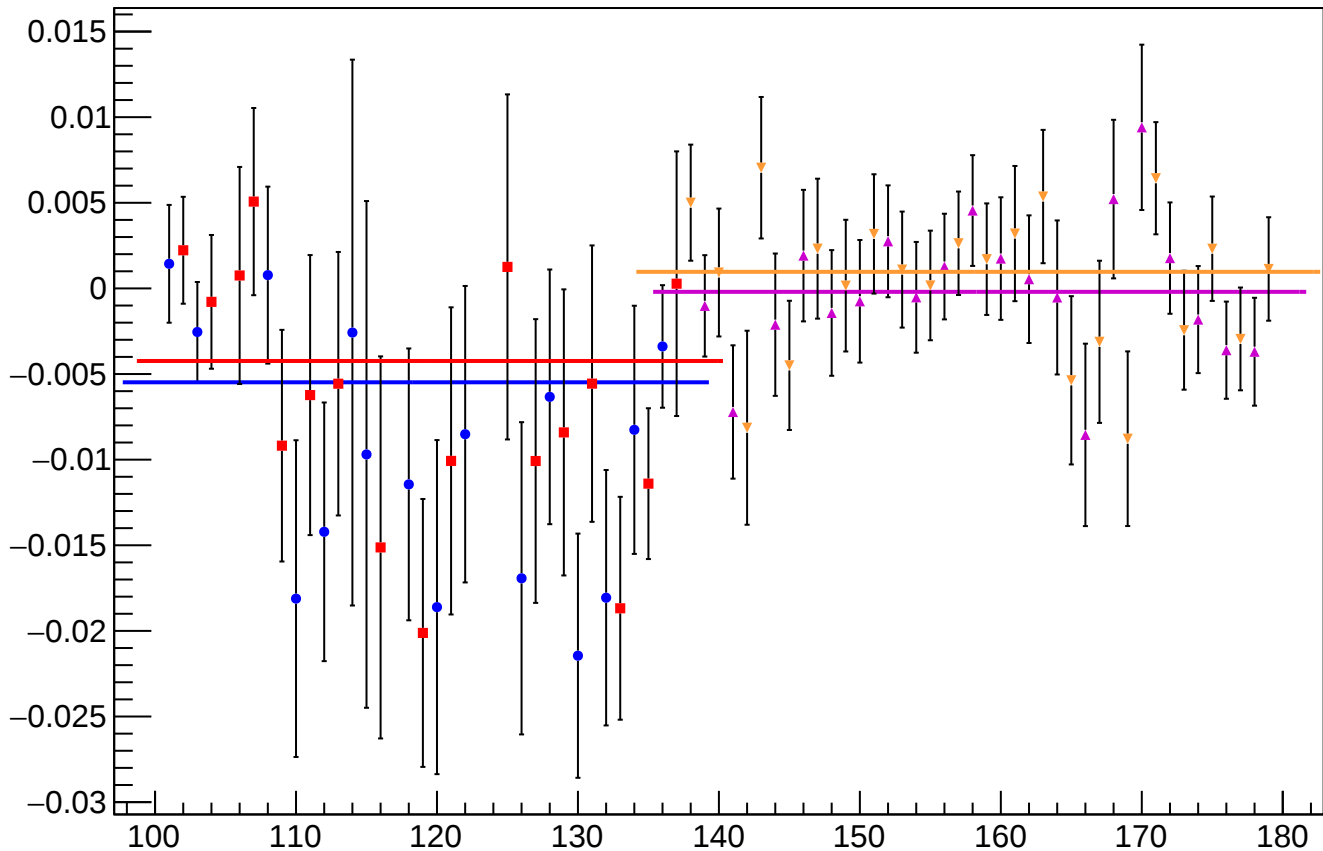
Right: 0.057 $\pm$ 0.020  $\chi^2$ /NDF: 28.0/32

In: 0.064 $\pm$ 0.015  $\chi^2$ /NDF:44.0/35

Out: 0.091 $\pm$ 0.014  $\chi^2$ /NDF:37.4/38

All: 0.078 $\pm$ 0.010  $\chi^2$ /NDF: 83.1/74

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.005 $\pm$ 0.001  $\chi^2$ /NDF: 22.3/15

Left Out: 0.001 $\pm$ 0.001  $\chi^2$ /NDF:22.5/21

Right Out: -0.004 $\pm$ 0.001  $\chi^2$ /NDF: 23.7/16

Left In: -0.000 $\pm$ 0.001  $\chi^2$ /NDF:18.6/19

Left: 0.000 $\pm$ 0.001  $\chi^2$ /NDF: 42.3/41

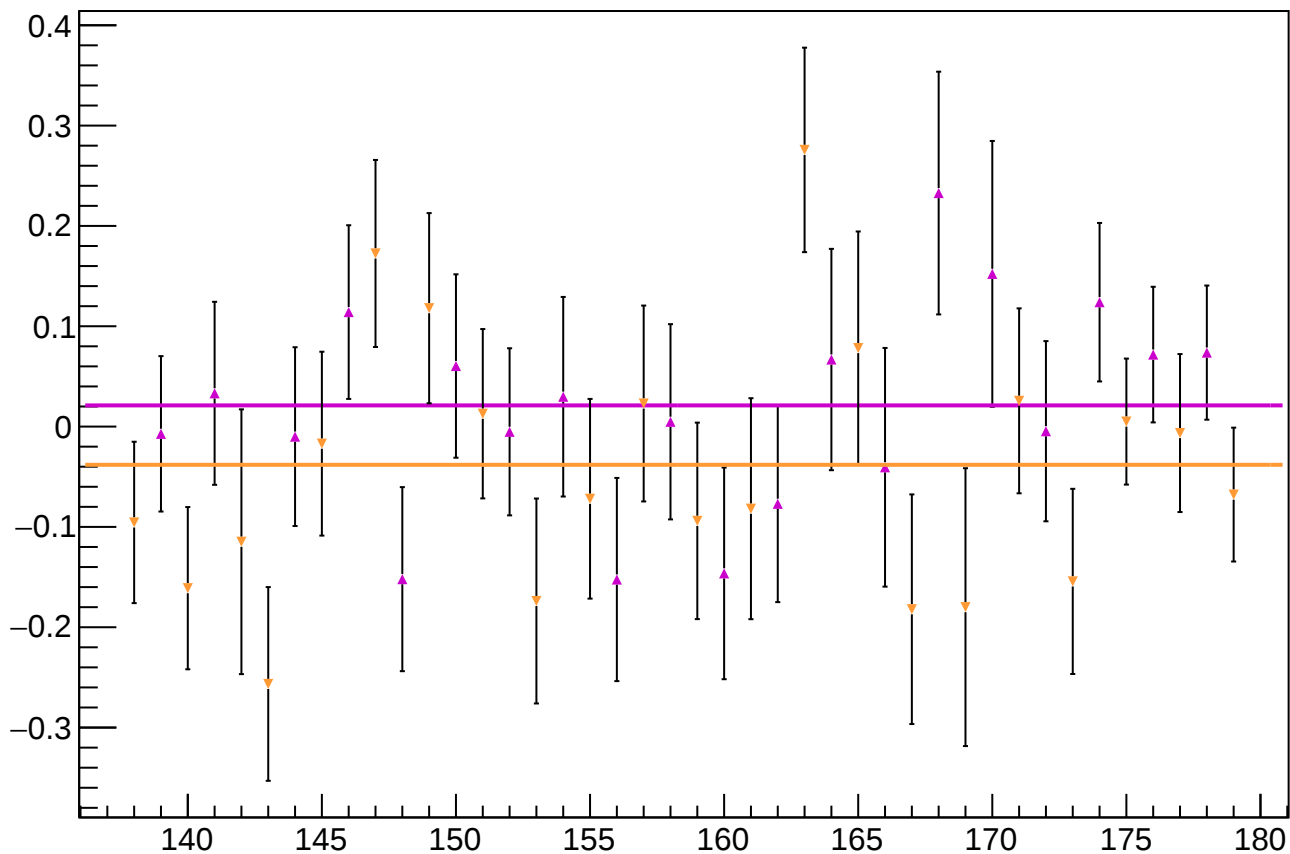
Right: -0.005 $\pm$ 0.001  $\chi^2$ /NDF: 46.3/32

In: -0.001 $\pm$ 0.001  $\chi^2$ /NDF:51.2/35

Out: -0.000 $\pm$ 0.001  $\chi^2$ /NDF:56.1/38

All: -0.001 $\pm$ 0.000  $\chi^2$ /NDF: 109.0/74

reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -0.038 $\pm$ 0.020  $\chi^2$ /NDF:35.3/21

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

Left In: 0.021 $\pm$ 0.020  $\chi^2$ /NDF:19.2/19

Left: -0.010 $\pm$ 0.014  $\chi^2$ /NDF: 58.9/41

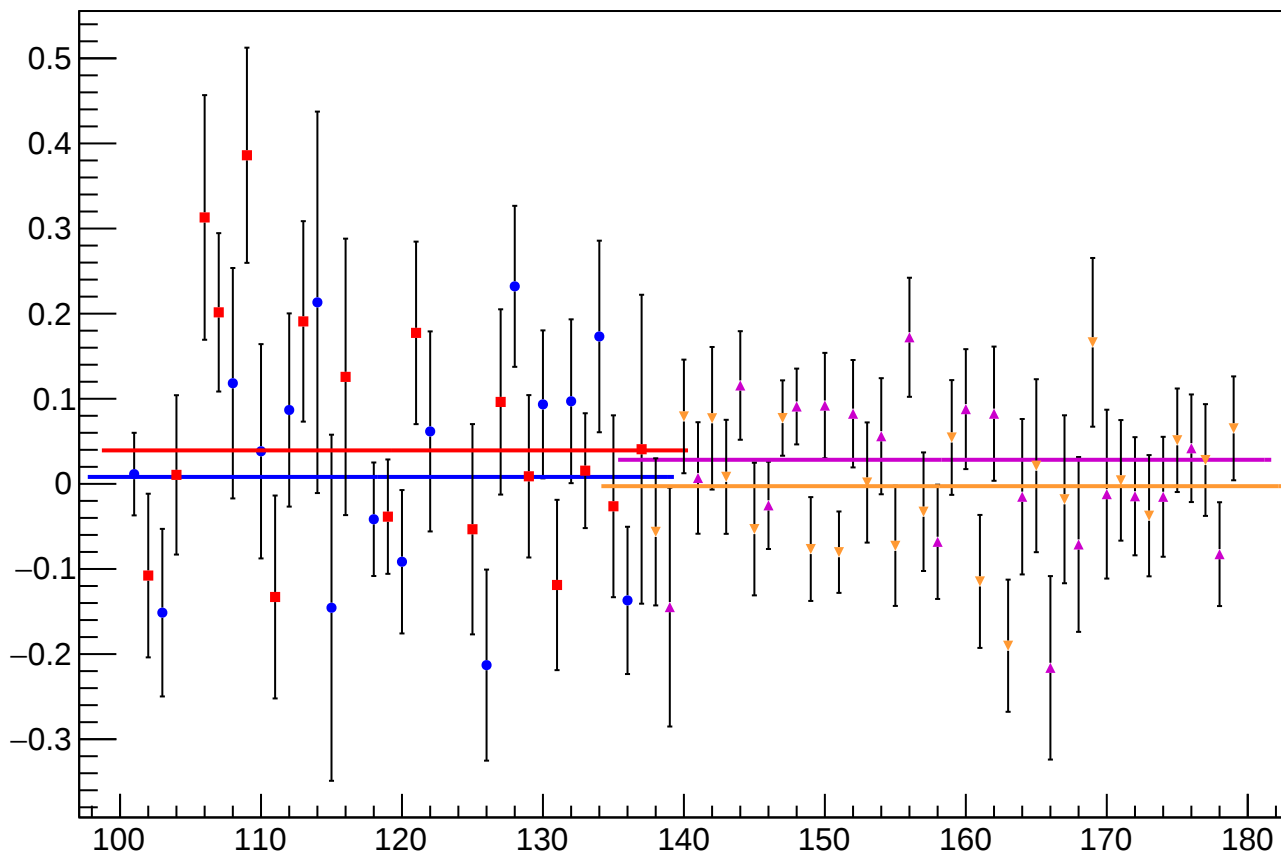
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.021 $\pm$ 0.020  $\chi^2$ /NDF:19.2/19

Out: -0.038 $\pm$ 0.020  $\chi^2$ /NDF:35.3/21

All: -0.010 $\pm$ 0.014  $\chi^2$ /NDF: 58.9/41

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.008 \pm 0.023$   $\chi^2/\text{NDF}$ : 23.7/15

Left Out:  $-0.003 \pm 0.015$   $\chi^2/\text{NDF}$ : 25.9/21

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

Left In:  $0.028 \pm 0.015$   $\chi^2/\text{NDF}$ : 26.6/19

Left:  $0.012 \pm 0.011$   $\chi^2/\text{NDF}$ : 54.6/41

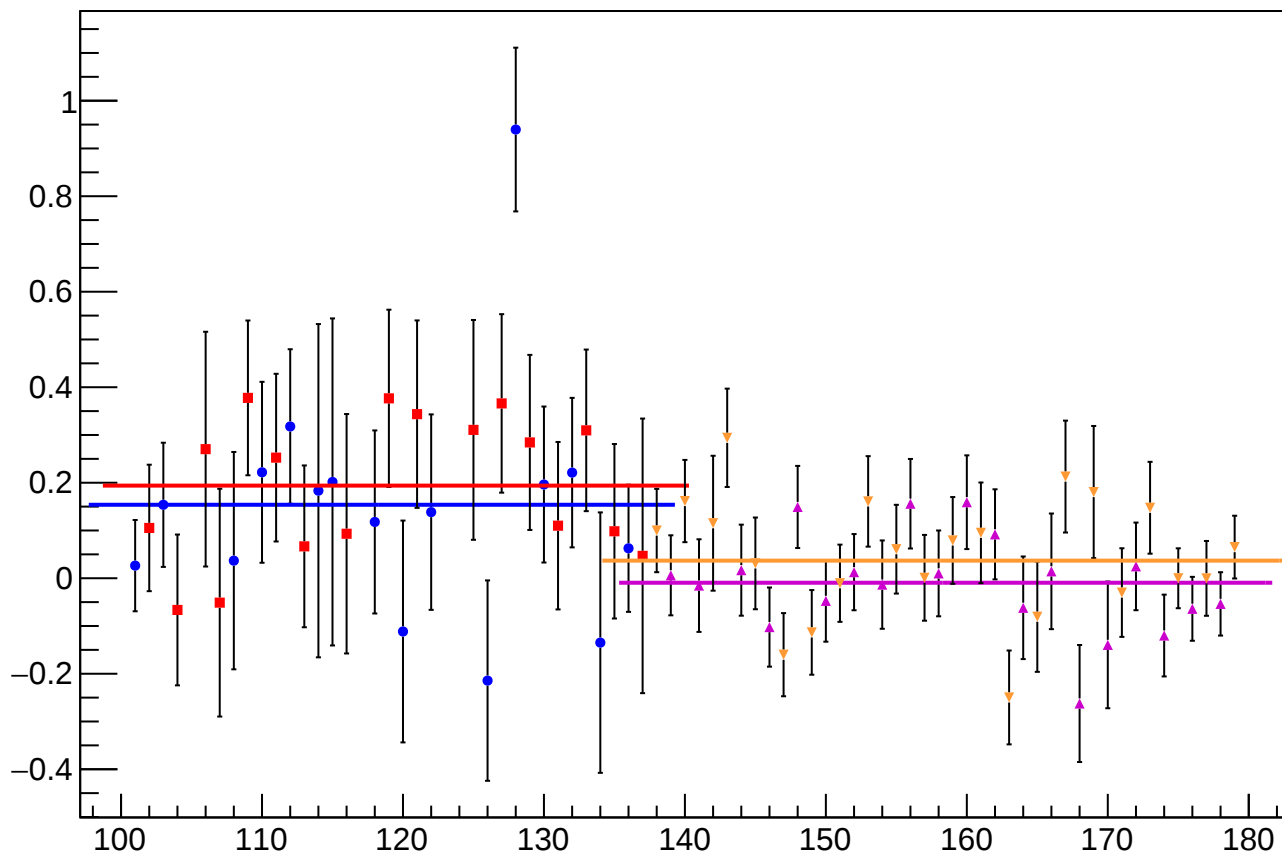
Right:  $0.023 \pm 0.017$   $\chi^2/\text{NDF}$ : 52.1/32

In:  $0.022 \pm 0.013$   $\chi^2/\text{NDF}$ : 50.8/35

Out:  $0.008 \pm 0.013$   $\chi^2/\text{NDF}$ : 55.6/38

All:  $0.015 \pm 0.009$   $\chi^2/\text{NDF}$ : 107.0/74

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $0.154 \pm 0.043$   $\chi^2/\text{NDF}: 30.5/15$

Left Out:  $0.037 \pm 0.019$   $\chi^2/\text{NDF}: 35.4/21$

Right Out:  $0.194 \pm 0.045$   $\chi^2/\text{NDF}: 10.6/16$

Left In:  $-0.009 \pm 0.020$   $\chi^2/\text{NDF}: 20.7/19$

Left:  $0.015 \pm 0.014$   $\chi^2/\text{NDF}: 58.9/41$

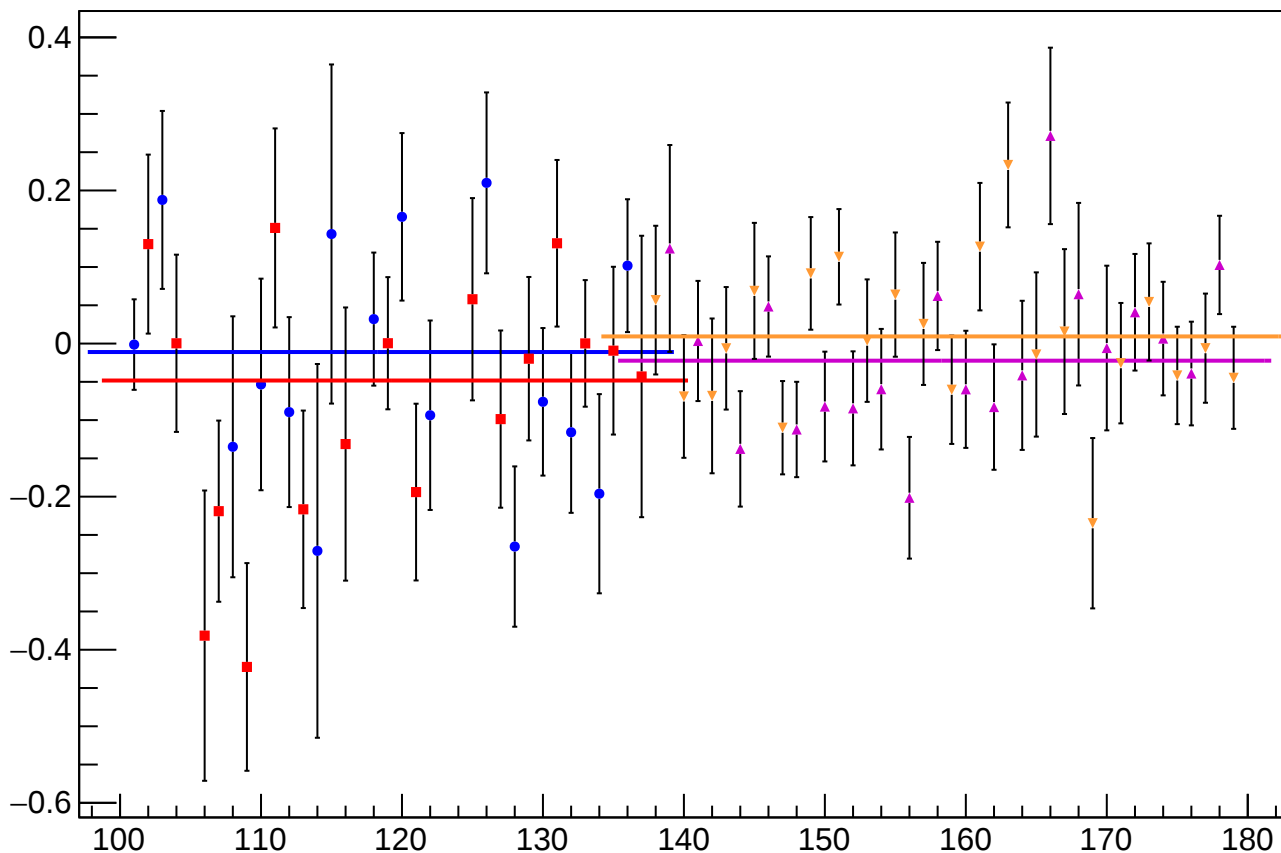
Right:  $0.173 \pm 0.031$   $\chi^2/\text{NDF}: 41.5/32$

In:  $0.020 \pm 0.018$   $\chi^2/\text{NDF}: 63.2/35$

Out:  $0.061 \pm 0.018$   $\chi^2/\text{NDF}: 56.3/38$

All:  $0.041 \pm 0.013$   $\chi^2/\text{NDF}: 122.1/74$

reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.011 \pm 0.027$   $\chi^2/\text{NDF}: 23.4/15$

Left Out:  $0.009 \pm 0.017$   $\chi^2/\text{NDF}: 27.9/21$

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}: 25.6/16$

Left In:  $-0.022 \pm 0.018$   $\chi^2/\text{NDF}: 27.6/19$

Left:  $-0.006 \pm 0.012$   $\chi^2/\text{NDF}: 57.2/41$

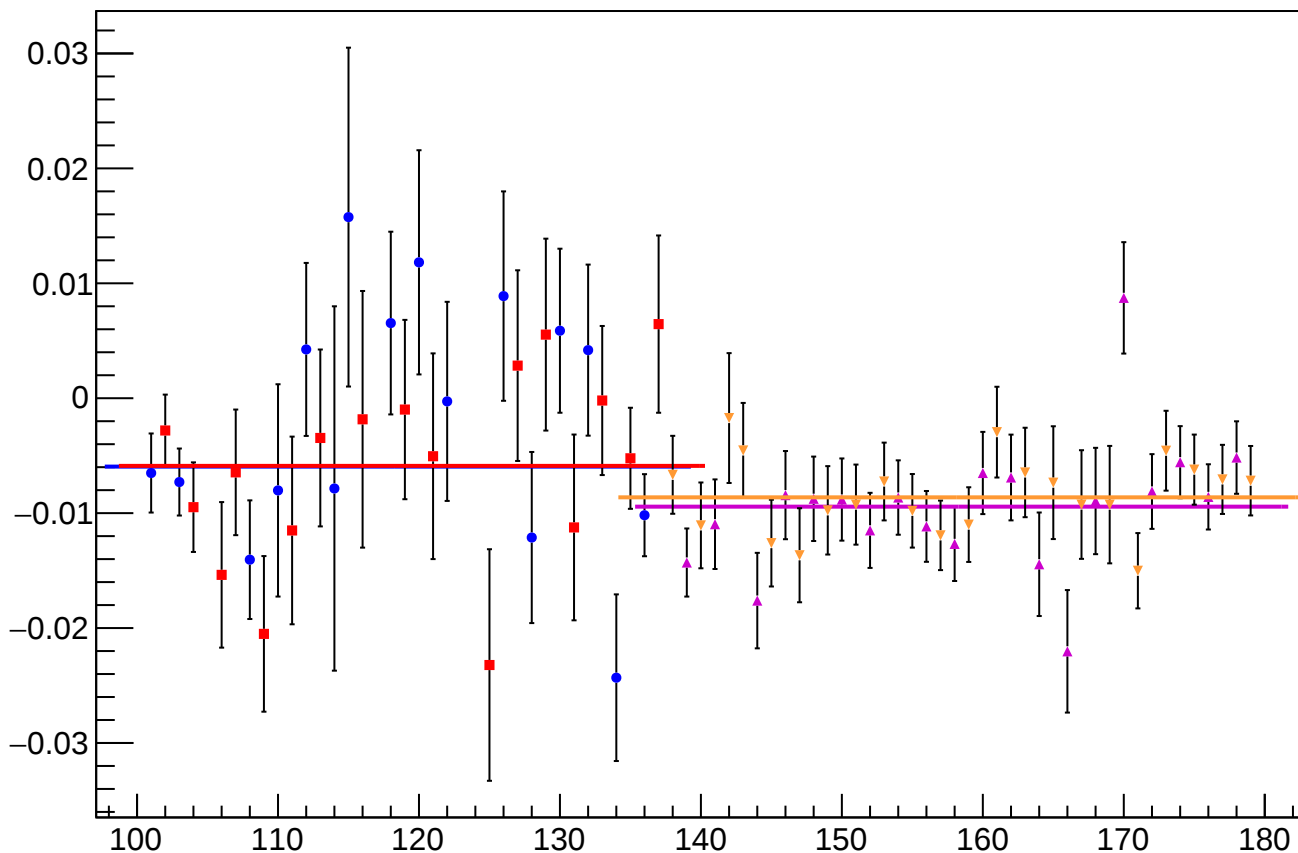
Right:  $-0.029 \pm 0.020$   $\chi^2/\text{NDF}: 49.9/32$

In:  $-0.019 \pm 0.015$   $\chi^2/\text{NDF}: 51.1/35$

Out:  $-0.005 \pm 0.014$   $\chi^2/\text{NDF}: 56.5/38$

All:  $-0.012 \pm 0.010$   $\chi^2/\text{NDF}: 108.0/74$

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 28.7/15

Left Out: -0.009 $\pm$ 0.001  $\chi^2$ /NDF:16.8/21

Right Out: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 19.6/16

Left In: -0.009 $\pm$ 0.001  $\chi^2$ /NDF:34.2/19

Left: -0.009 $\pm$ 0.001  $\chi^2$ /NDF: 51.5/41

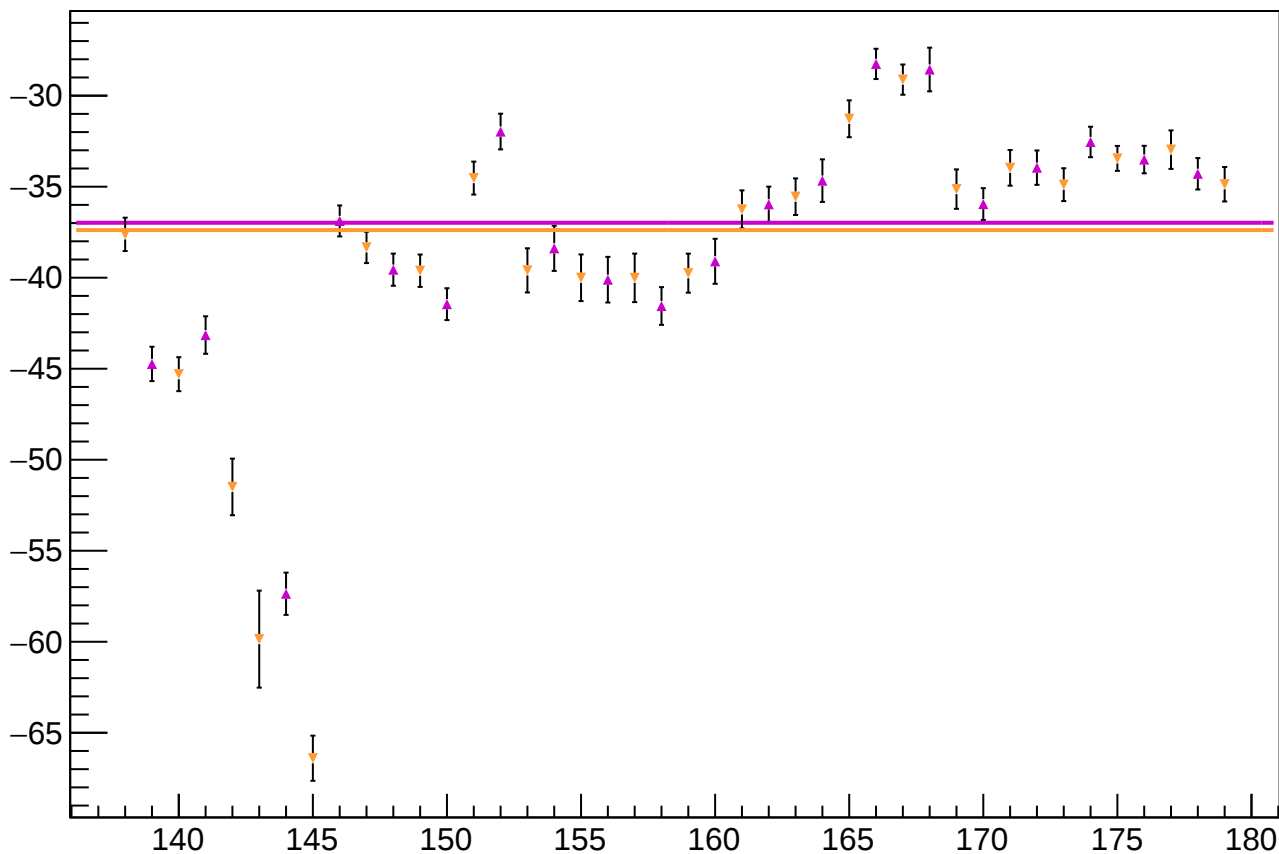
Right: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 48.3/32

In: -0.009 $\pm$ 0.001  $\chi^2$ /NDF:67.5/35

Out: -0.008 $\pm$ 0.001  $\chi^2$ /NDF:39.1/38

All: -0.008 $\pm$ 0.000  $\chi^2$ /NDF: 106.9/74

reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -37.384 $\pm$ 0.215  $\chi^2$ /NDF:1029.2/21

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

Left In: -36.981 $\pm$ 0.215  $\chi^2$ /NDF:737.9/19

Left: -37.183 $\pm$ 0.152  $\chi^2$ /NDF: 1768.8/41

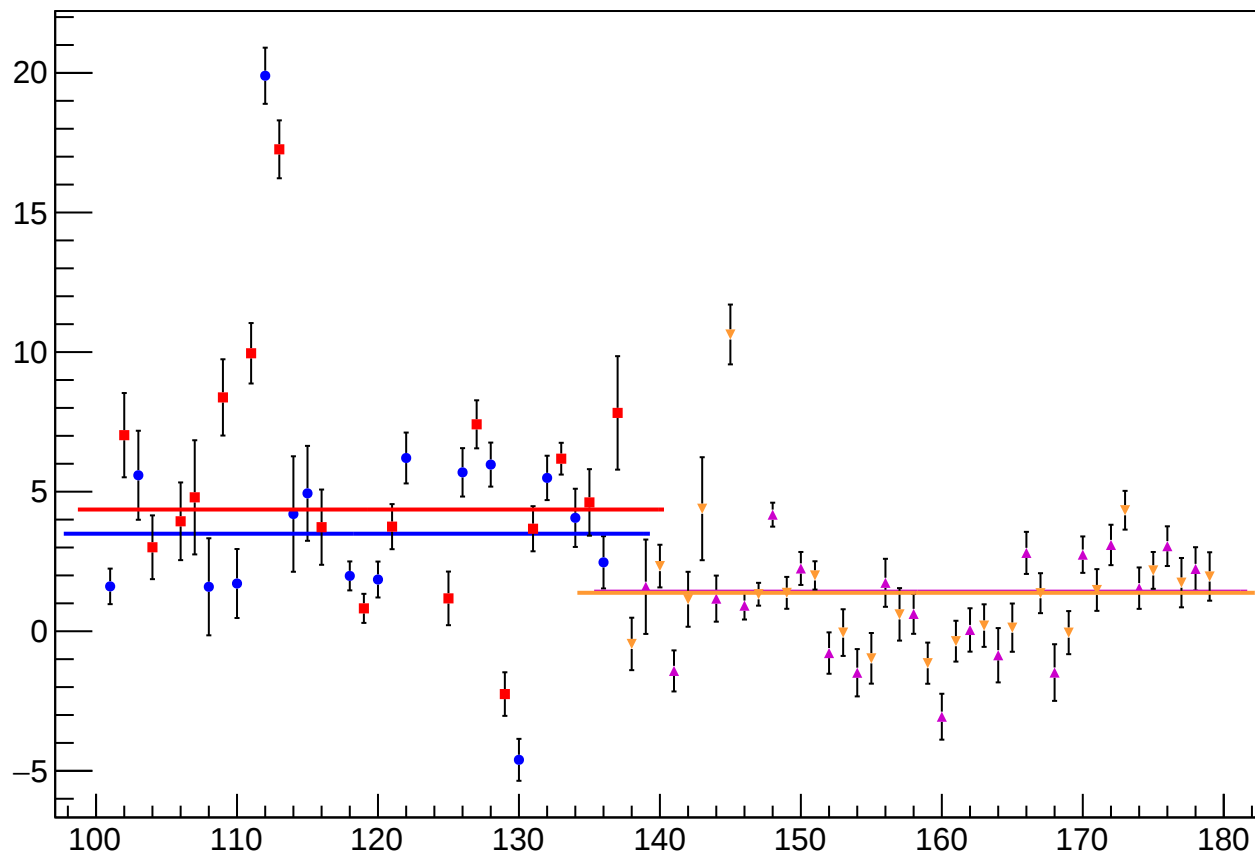
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -36.981 $\pm$ 0.215  $\chi^2$ /NDF:737.9/19

Out: -37.384 $\pm$ 0.215  $\chi^2$ /NDF:1029.2/21

All: -37.183 $\pm$ 0.152  $\chi^2$ /NDF: 1768.8/41

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.494+/-0.218  $\chi^2/\text{NDF}$ : 444.9/15

Left Out: 1.378+/-0.156  $\chi^2/\text{NDF}$ :140.0/21

Right Out: 4.360+/-0.225  $\chi^2/\text{NDF}$ : 351.0/16

Left In: 1.419+/-0.160  $\chi^2/\text{NDF}$ :147.0/19

Left: 1.398+/-0.112  $\chi^2/\text{NDF}$ : 287.0/41

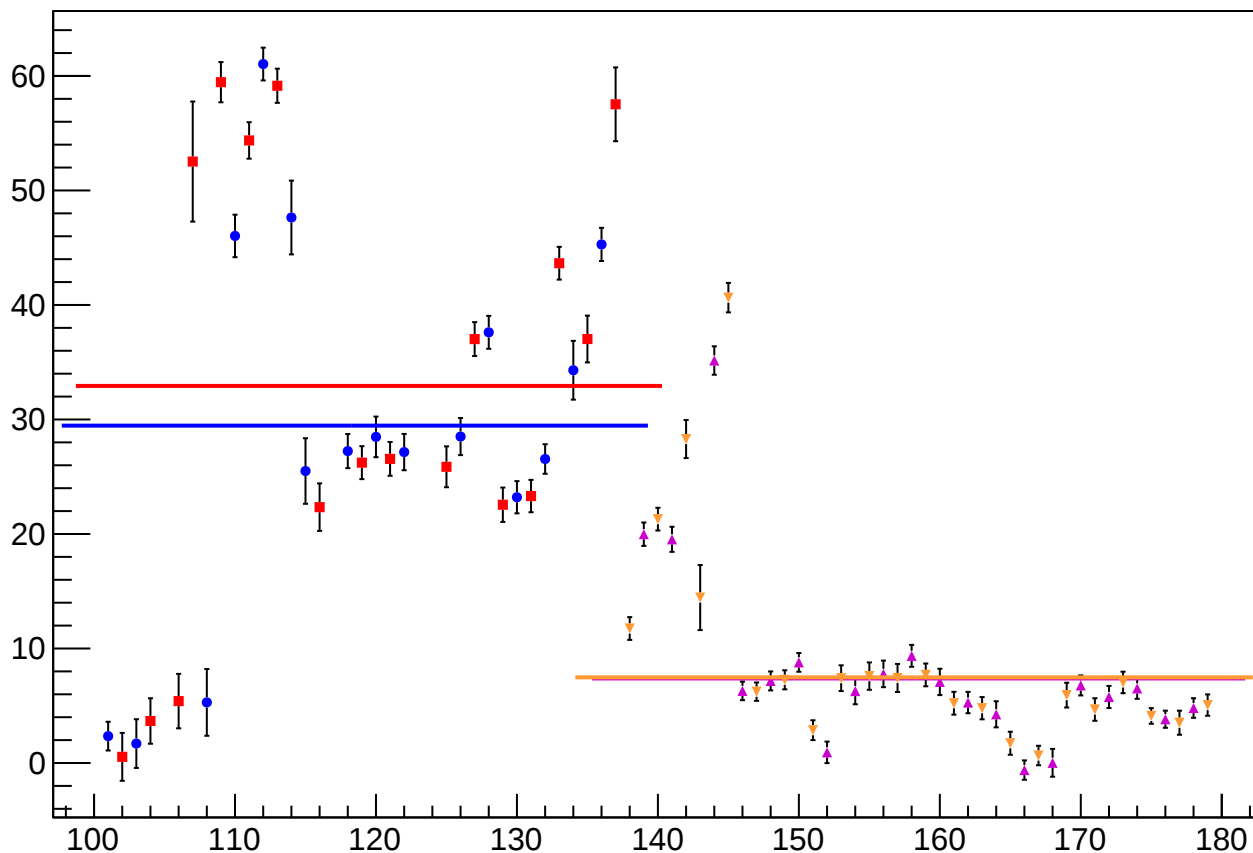
Right: 3.912+/-0.157  $\chi^2/\text{NDF}$ : 803.5/32

In: 2.145+/-0.129  $\chi^2/\text{NDF}$ :650.9/35

Out: 2.347+/-0.128  $\chi^2/\text{NDF}$ :609.2/38

All: 2.246+/-0.091  $\chi^2/\text{NDF}$ : 1261.3/74

reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.463 $\pm$ 0.418  $\chi^2$ /NDF: 1491.6/15

Left Out: 7.480 $\pm$ 0.212  $\chi^2$ /NDF:1235.6/21

Right Out: 32.930 $\pm$ 0.423  $\chi^2$ /NDF: 1624.4/16

Left In: 7.384 $\pm$ 0.213  $\chi^2$ /NDF:1008.0/19

Left: 7.432 $\pm$ 0.150  $\chi^2$ /NDF: 2243.8/41

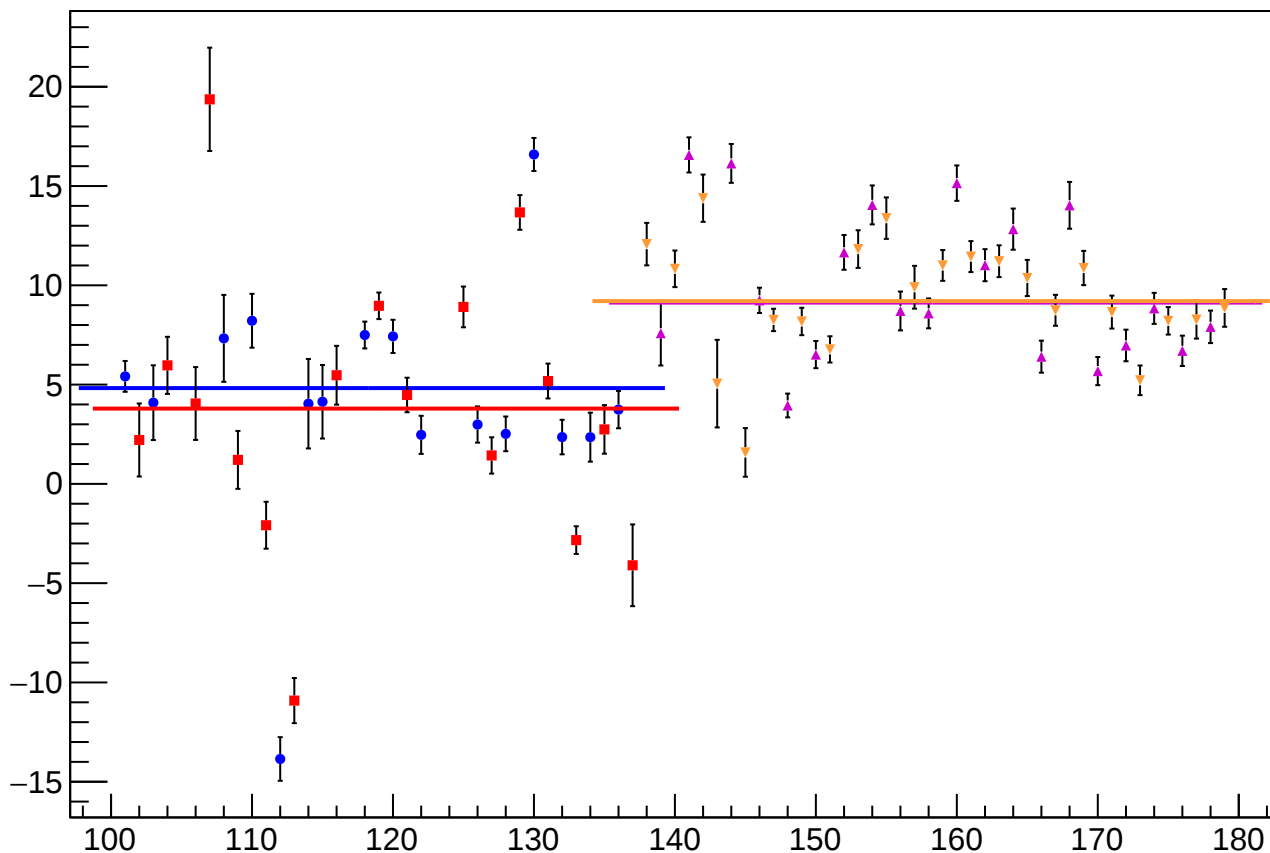
Right: 31.172 $\pm$ 0.297  $\chi^2$ /NDF: 3150.0/32

In: 11.931 $\pm$ 0.189  $\chi^2$ /NDF:4720.1/35

Out: 12.579 $\pm$ 0.190  $\chi^2$ /NDF:5747.8/38

All: 12.255 $\pm$ 0.134  $\chi^2$ /NDF: 10473.7/74

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.824 $\pm$ 0.252  $\chi^2$ /NDF: 552.9/15

Left Out: 9.206 $\pm$ 0.181  $\chi^2$ /NDF:172.0/21

Right Out: 3.792 $\pm$ 0.259  $\chi^2$ /NDF: 563.6/16

Left In: 9.130 $\pm$ 0.184  $\chi^2$ /NDF:382.4/19

Left: 9.169 $\pm$ 0.129  $\chi^2$ /NDF: 554.5/41

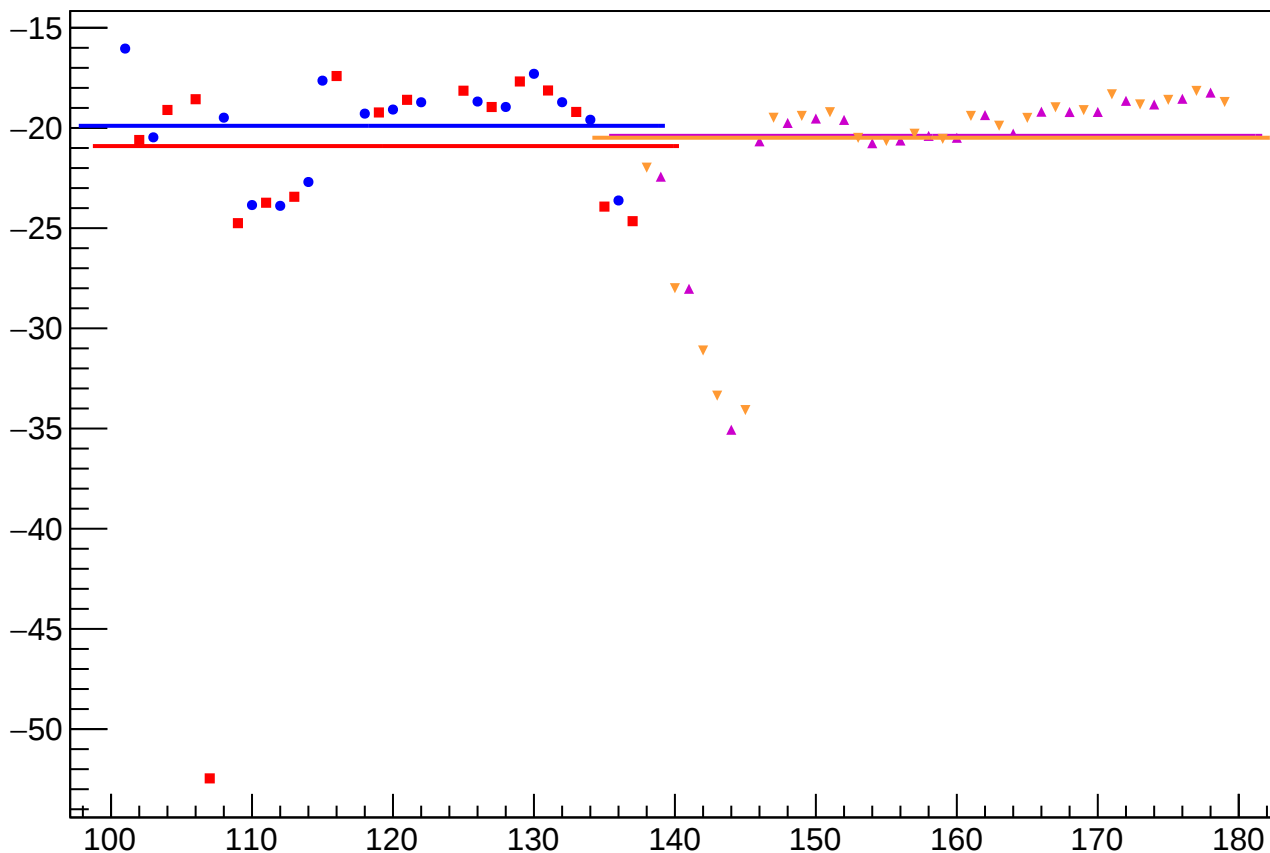
Right: 4.323 $\pm$ 0.180  $\chi^2$ /NDF: 1124.7/32

In: 7.634 $\pm$ 0.148  $\chi^2$ /NDF:1126.4/35

Out: 7.434 $\pm$ 0.148  $\chi^2$ /NDF:1029.6/38

All: 7.534 $\pm$ 0.105  $\chi^2$ /NDF: 2156.9/74

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.892 \pm 0.016$   $\chi^2/\text{NDF}$ : 26092.3/15

Left Out:  $-20.487 \pm 0.009$   $\chi^2/\text{NDF}$ : 162640.3/21

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}$ : 92802.8/16

Left In:  $-20.393 \pm 0.008$   $\chi^2/\text{NDF}$ : 121689.2/19

Left:  $-20.440 \pm 0.006$   $\chi^2/\text{NDF}$ : 284391.4/41

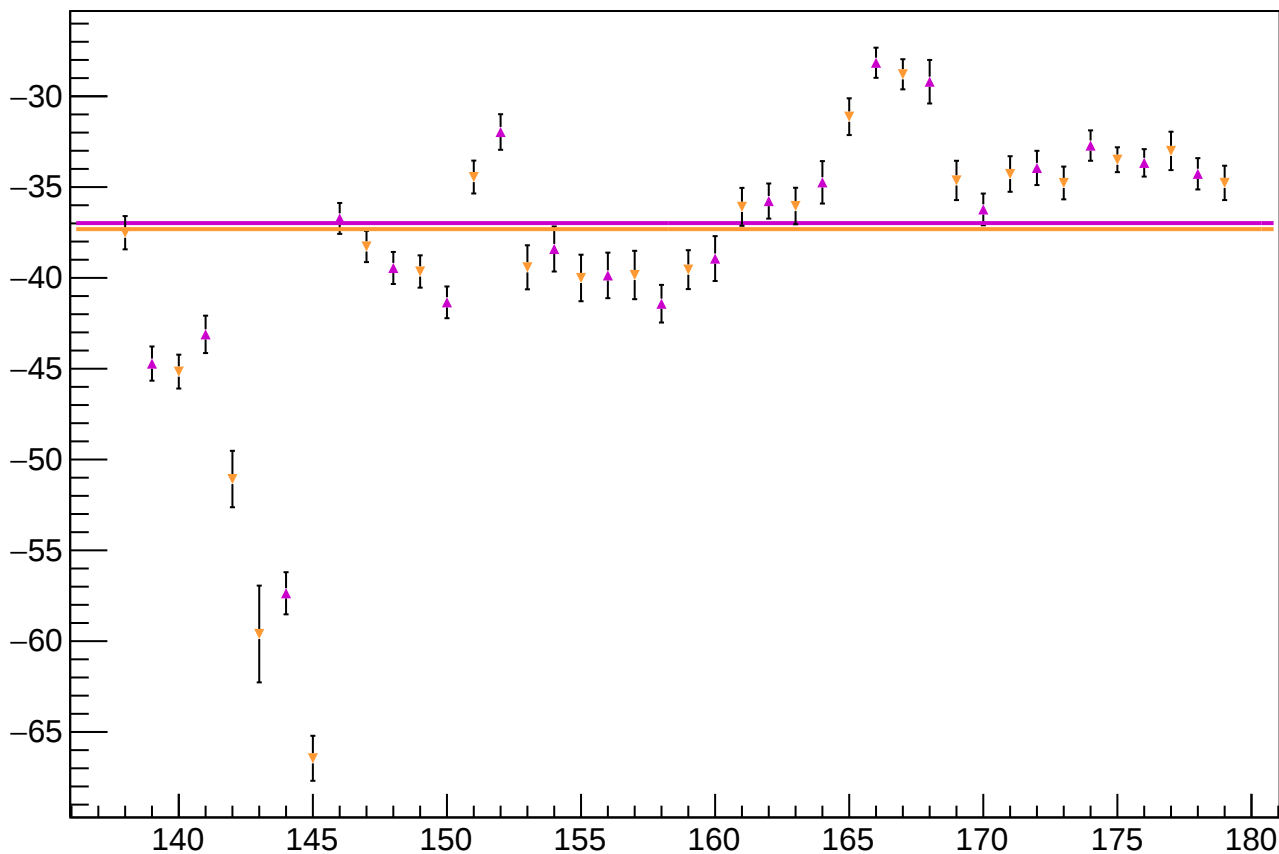
Right:  $-20.393 \pm 0.011$   $\chi^2/\text{NDF}$ : 120979.2/32

In:  $-20.279 \pm 0.007$   $\chi^2/\text{NDF}$ : 148577.3/35

Out:  $-20.582 \pm 0.007$   $\chi^2/\text{NDF}$ : 255984.0/38

All:  $-20.429 \pm 0.005$   $\chi^2/\text{NDF}$ : 405384.3/74

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -37.316+/-0.215  $\chi^2/\text{NDF}$ :1030.7/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -36.982+/-0.215  $\chi^2/\text{NDF}$ :725.0/19

Left: -37.150+/-0.152  $\chi^2/\text{NDF}$ : 1756.8/41

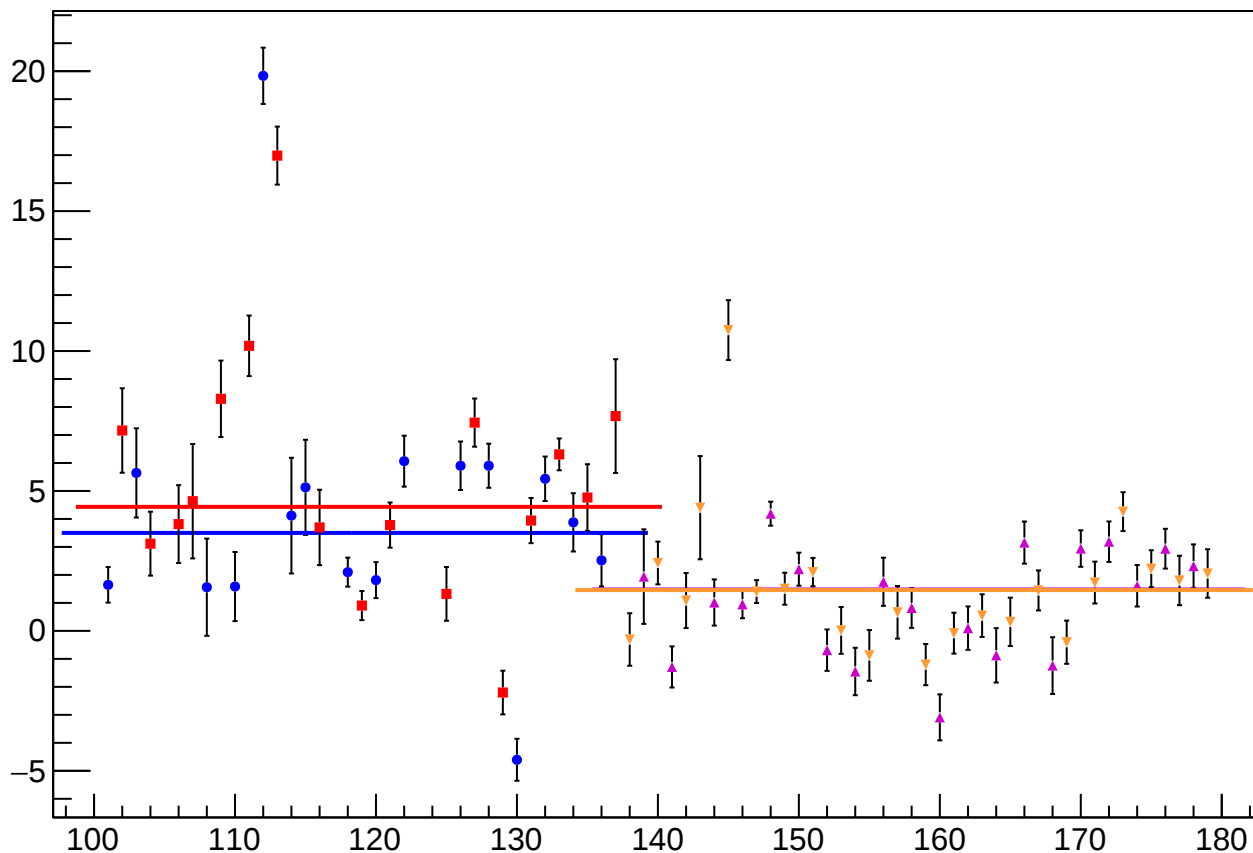
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -36.982+/-0.215  $\chi^2/\text{NDF}$ :725.0/19

Out: -37.316+/-0.215  $\chi^2/\text{NDF}$ :1030.7/21

All: -37.150+/-0.152  $\chi^2/\text{NDF}$ : 1756.8/41

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.501 $\pm$ 0.218  $\chi^2$ /NDF: 441.9/15

Left Out: 1.459 $\pm$ 0.156  $\chi^2$ /NDF:140.0/21

Right Out: 4.432 $\pm$ 0.225  $\chi^2$ /NDF: 343.6/16

Left In: 1.480 $\pm$ 0.160  $\chi^2$ /NDF:146.7/19

Left: 1.469 $\pm$ 0.112  $\chi^2$ /NDF: 286.7/41

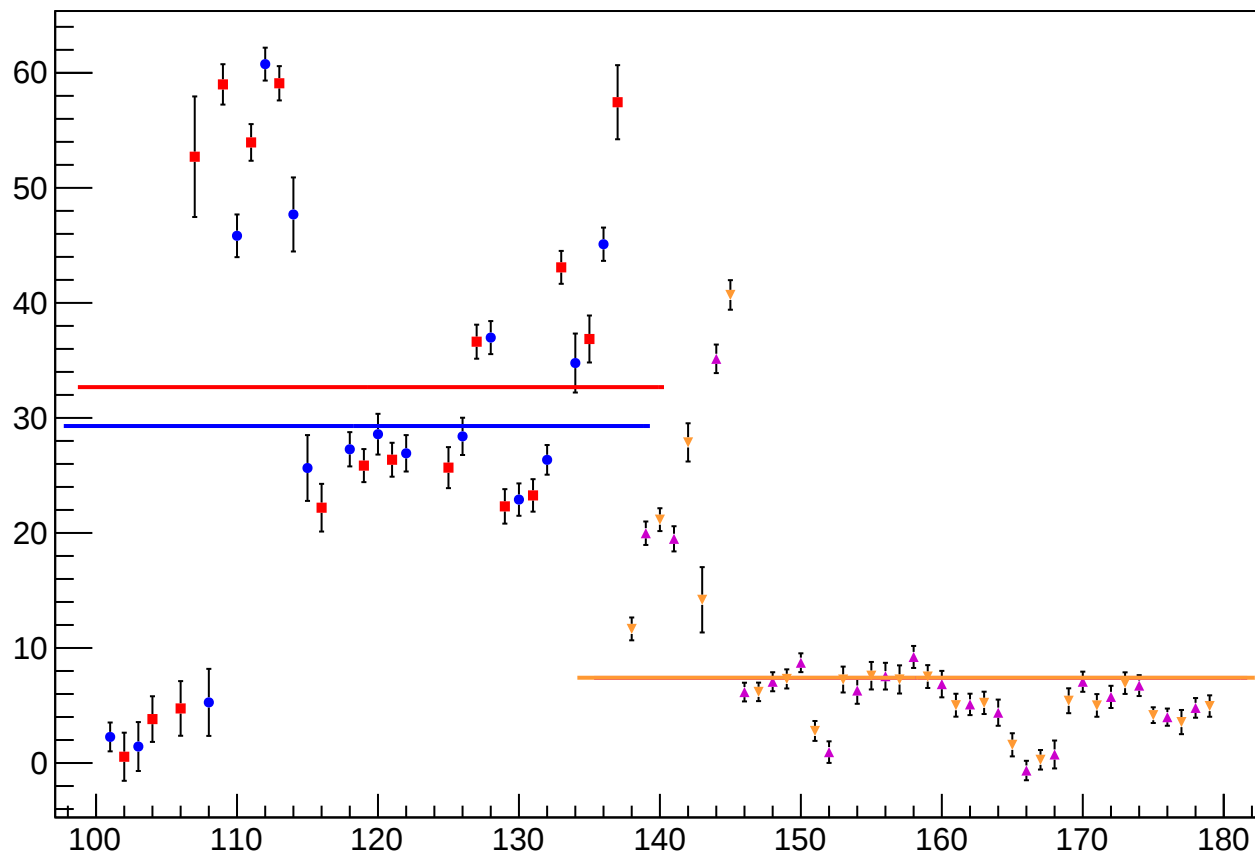
Right: 3.951 $\pm$ 0.156  $\chi^2$ /NDF: 794.3/32

In: 2.188 $\pm$ 0.129  $\chi^2$ /NDF:644.7/35

Out: 2.425 $\pm$ 0.128  $\chi^2$ /NDF:601.3/38

All: 2.306 $\pm$ 0.091  $\chi^2$ /NDF: 1247.7/74

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.297 $\pm$ 0.417  $\chi^2/\text{NDF}$ : 1485.2/15

Left Out: 7.414 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 1236.0/21

Right Out: 32.679 $\pm$ 0.423  $\chi^2/\text{NDF}$ : 1614.8/16

Left In: 7.394 $\pm$ 0.213  $\chi^2/\text{NDF}$ : 999.1/19

Left: 7.404 $\pm$ 0.150  $\chi^2/\text{NDF}$ : 2235.1/41

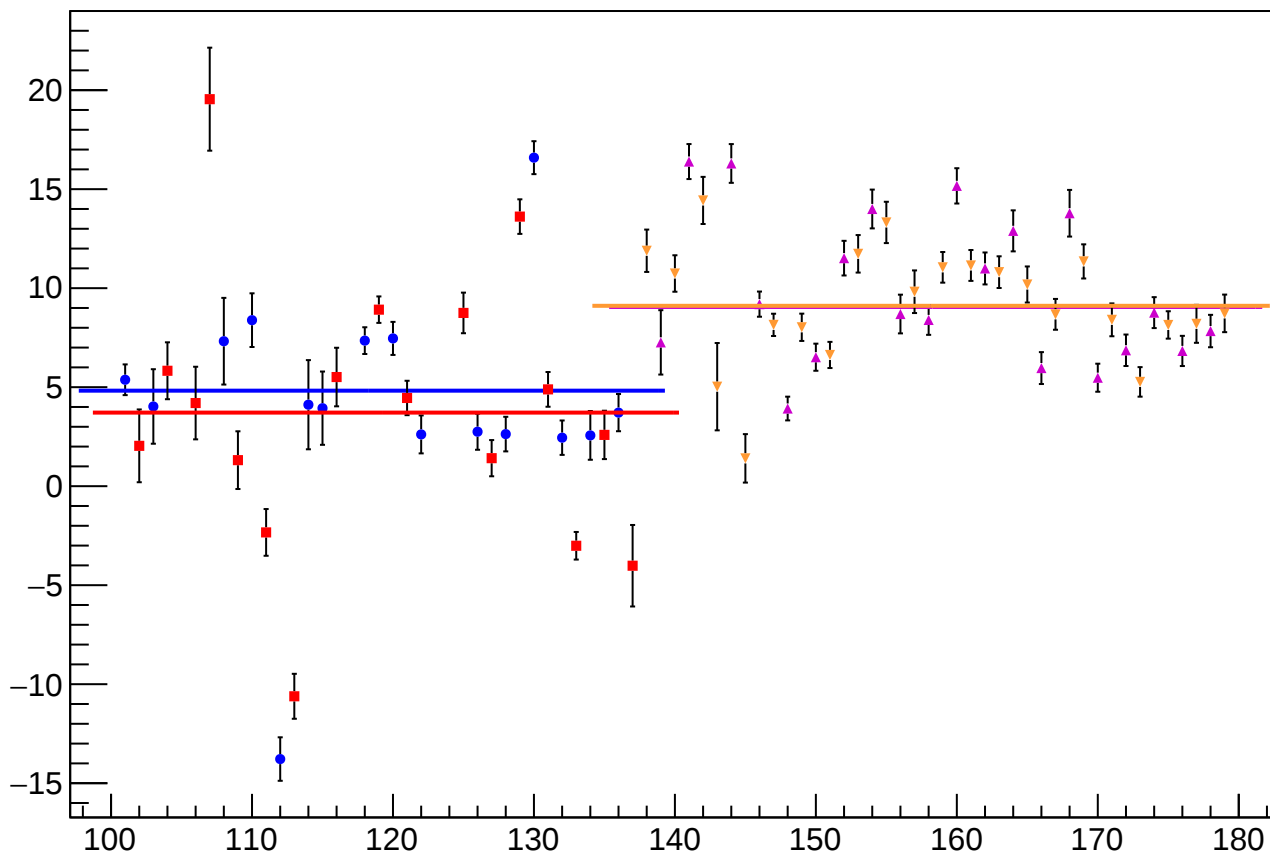
Right: 30.964 $\pm$ 0.297  $\chi^2/\text{NDF}$ : 3132.4/32

In: 11.906 $\pm$ 0.189  $\chi^2/\text{NDF}$ : 4672.4/35

Out: 12.477 $\pm$ 0.189  $\chi^2/\text{NDF}$ : 5700.6/38

All: 12.191 $\pm$ 0.134  $\chi^2/\text{NDF}$ : 10377.5/74

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}$ : 549.2/15

Left Out:  $9.110 \pm 0.180$   $\chi^2/\text{NDF}$ : 173.3/21

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}$ : 559.9/16

Left In:  $9.051 \pm 0.184$   $\chi^2/\text{NDF}$ : 387.8/19

Left:  $9.081 \pm 0.129$   $\chi^2/\text{NDF}$ : 561.1/41

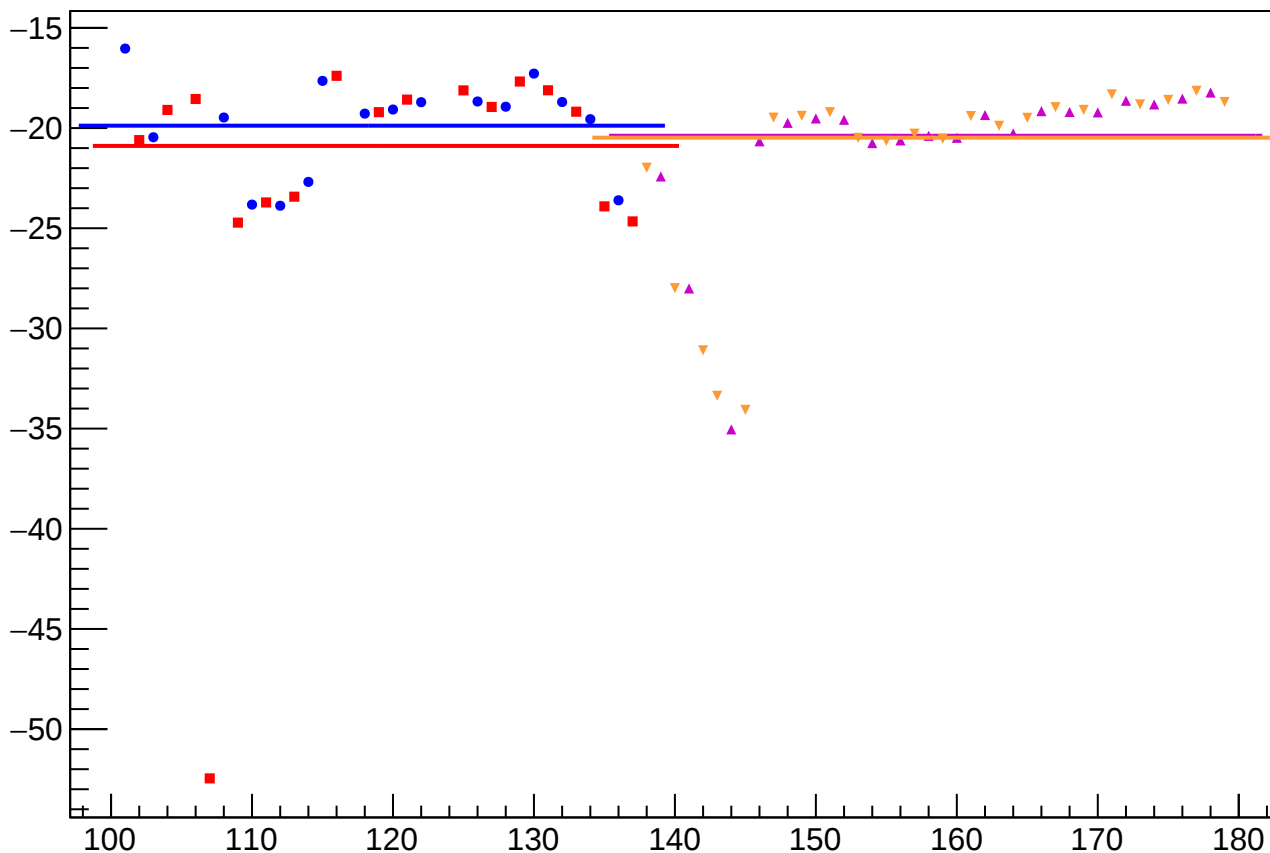
Right:  $4.286 \pm 0.180$   $\chi^2/\text{NDF}$ : 1118.6/32

In:  $7.582 \pm 0.148$   $\chi^2/\text{NDF}$ : 1121.4/35

Out:  $7.344 \pm 0.148$   $\chi^2/\text{NDF}$ : 1025.4/38

All:  $7.463 \pm 0.105$   $\chi^2/\text{NDF}$ : 2148.1/74

reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.880 \pm 0.016$   $\chi^2/\text{NDF}: 26082.0/15$

Left Out:  $-20.480 \pm 0.009$   $\chi^2/\text{NDF}: 162756.8/21$

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}: 92913.6/16$

Left In:  $-20.384 \pm 0.008$   $\chi^2/\text{NDF}: 121601.9/19$

Left:  $-20.431 \pm 0.006$   $\chi^2/\text{NDF}: 284422.0/41$

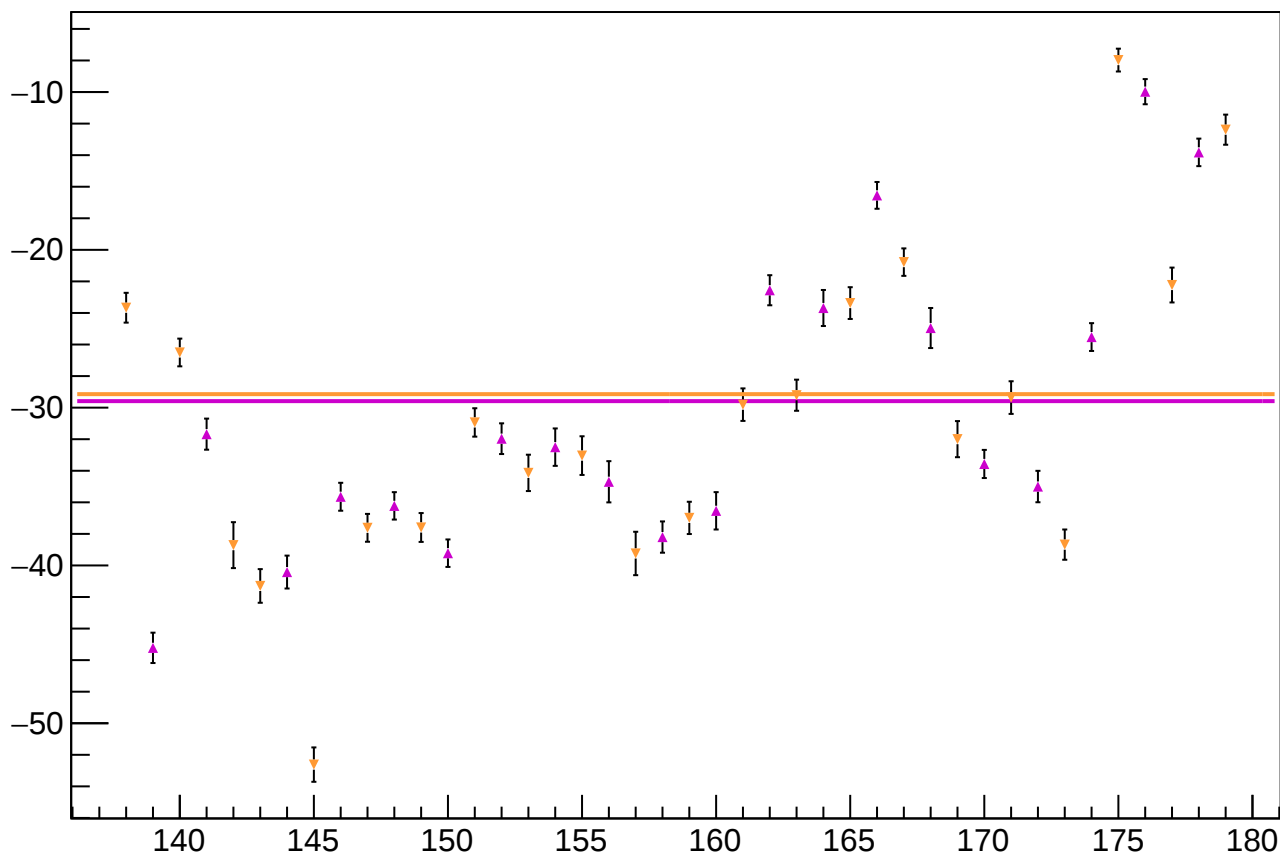
Right:  $-20.381 \pm 0.011$   $\chi^2/\text{NDF}: 121077.9/32$

In:  $-20.269 \pm 0.007$   $\chi^2/\text{NDF}: 148490.9/35$

Out:  $-20.573 \pm 0.007$   $\chi^2/\text{NDF}: 256198.5/38$

All:  $-20.420 \pm 0.005$   $\chi^2/\text{NDF}: 405516.2/74$

reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

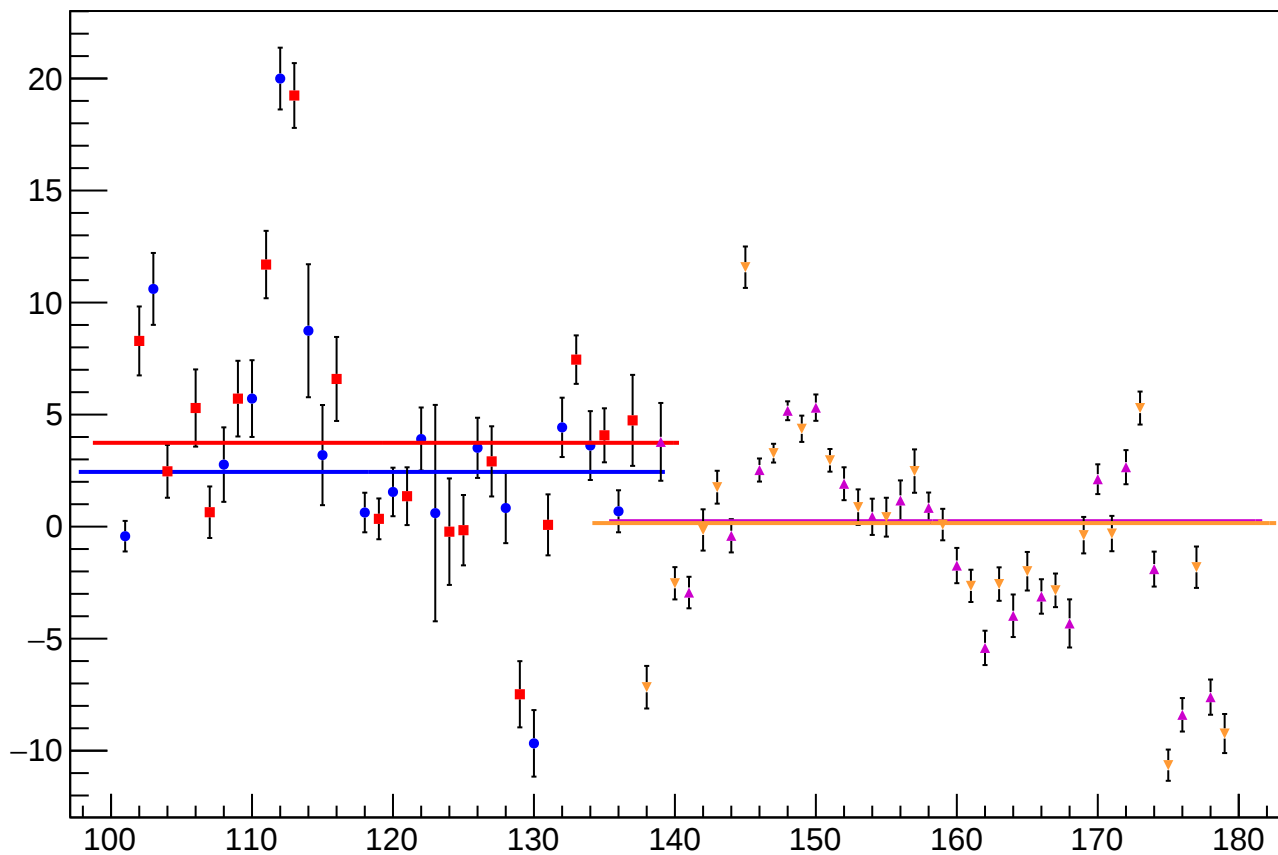


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -29.145+/-0.213  $\chi^2/\text{NDF}$ :2438.3/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -29.587+/-0.216  $\chi^2/\text{NDF}$ :2074.9/19

Left: -29.362+/-0.152  $\chi^2/\text{NDF}$ : 4515.4/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -29.587+/-0.216  $\chi^2/\text{NDF}$ :2074.9/19  
 Out: -29.145+/-0.213  $\chi^2/\text{NDF}$ :2438.3/21

All: -29.362+/-0.152  $\chi^2/\text{NDF}$ : 4515.4/41

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.441 \pm 0.311$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $0.158 \pm 0.154$   $\chi^2/\text{NDF}$ : 836.4/21

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.1/17

Left In:  $0.243 \pm 0.160$   $\chi^2/\text{NDF}$ : 640.0/19

Left:  $0.199 \pm 0.111$   $\chi^2/\text{NDF}$ : 1476.5/41

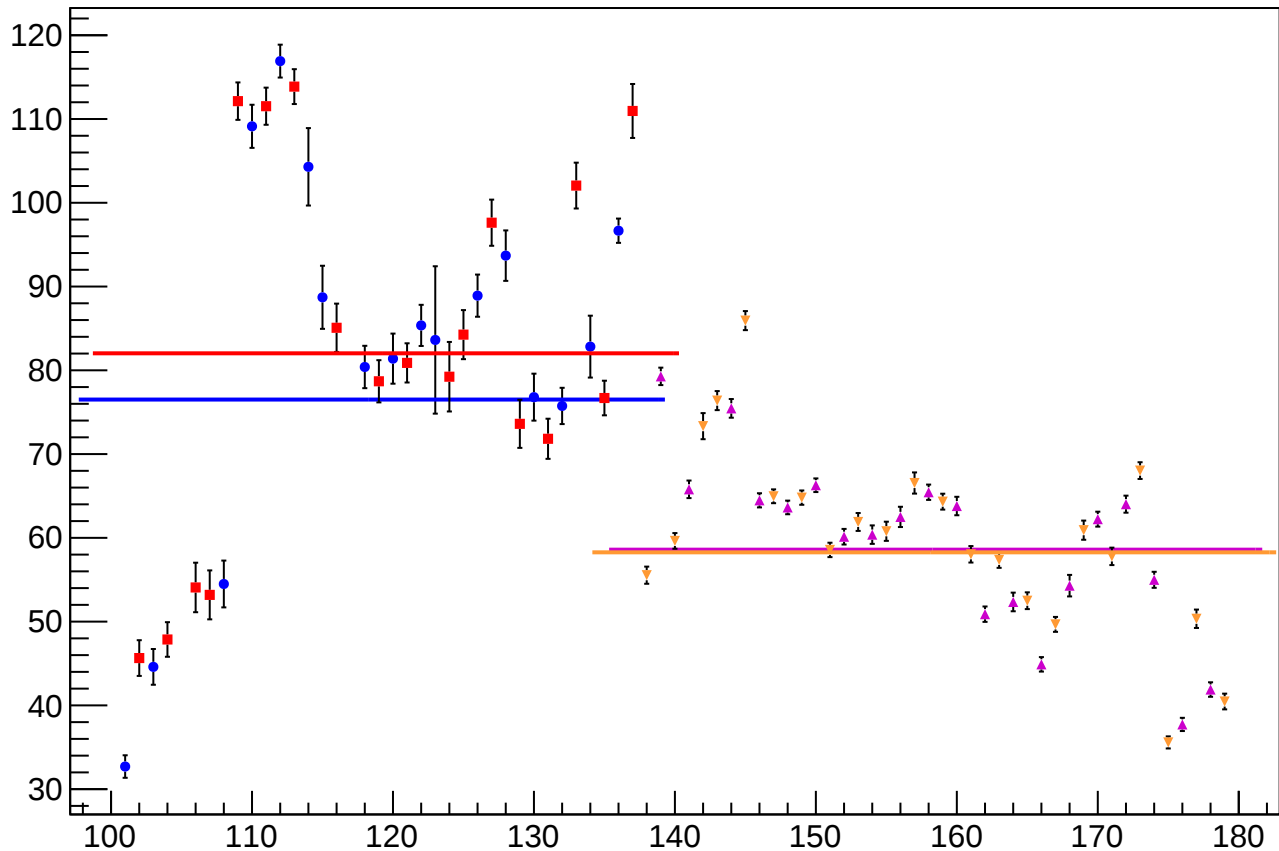
Right:  $3.060 \pm 0.225$   $\chi^2/\text{NDF}$ : 571.1/34

In:  $0.700 \pm 0.142$   $\chi^2/\text{NDF}$ : 974.2/36

Out:  $0.810 \pm 0.139$   $\chi^2/\text{NDF}$ : 1202.9/39

All:  $0.756 \pm 0.099$   $\chi^2/\text{NDF}$ : 2177.4/76

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 58.271 $\pm$ 0.210  $\chi^2$ /NDF: 2799.2/21

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

Left In: 58.589 $\pm$ 0.214  $\chi^2$ /NDF: 2436.4/19

Left: 58.428 $\pm$ 0.150  $\chi^2$ /NDF: 5236.7/41

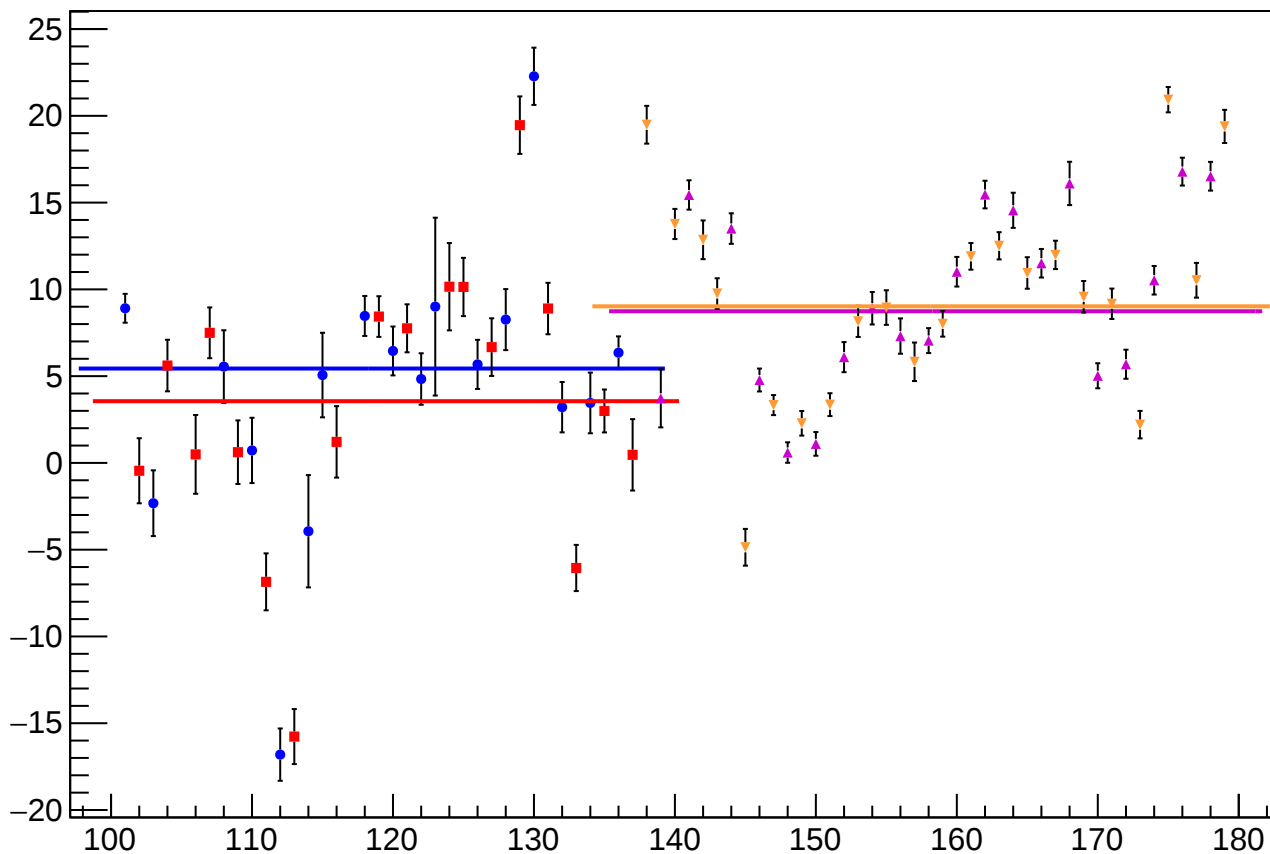
Right: 79.182 $\pm$ 0.412  $\chi^2$ /NDF: 3843.6/34

In: 60.767 $\pm$ 0.200  $\chi^2$ /NDF: 5543.0/36

Out: 60.930 $\pm$ 0.198  $\chi^2$ /NDF: 5774.6/39

All: 60.849 $\pm$ 0.141  $\chi^2$ /NDF: 11317.9/76

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.439 \pm 0.358$   $\chi^2/\text{NDF}: 386.2/16$

Left Out:  $9.024 \pm 0.178$   $\chi^2/\text{NDF}: 1091.6/21$

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}: 420.6/17$

Left In:  $8.739 \pm 0.184$   $\chi^2/\text{NDF}: 861.5/19$

Left:  $8.886 \pm 0.128$   $\chi^2/\text{NDF}: 1954.3/41$

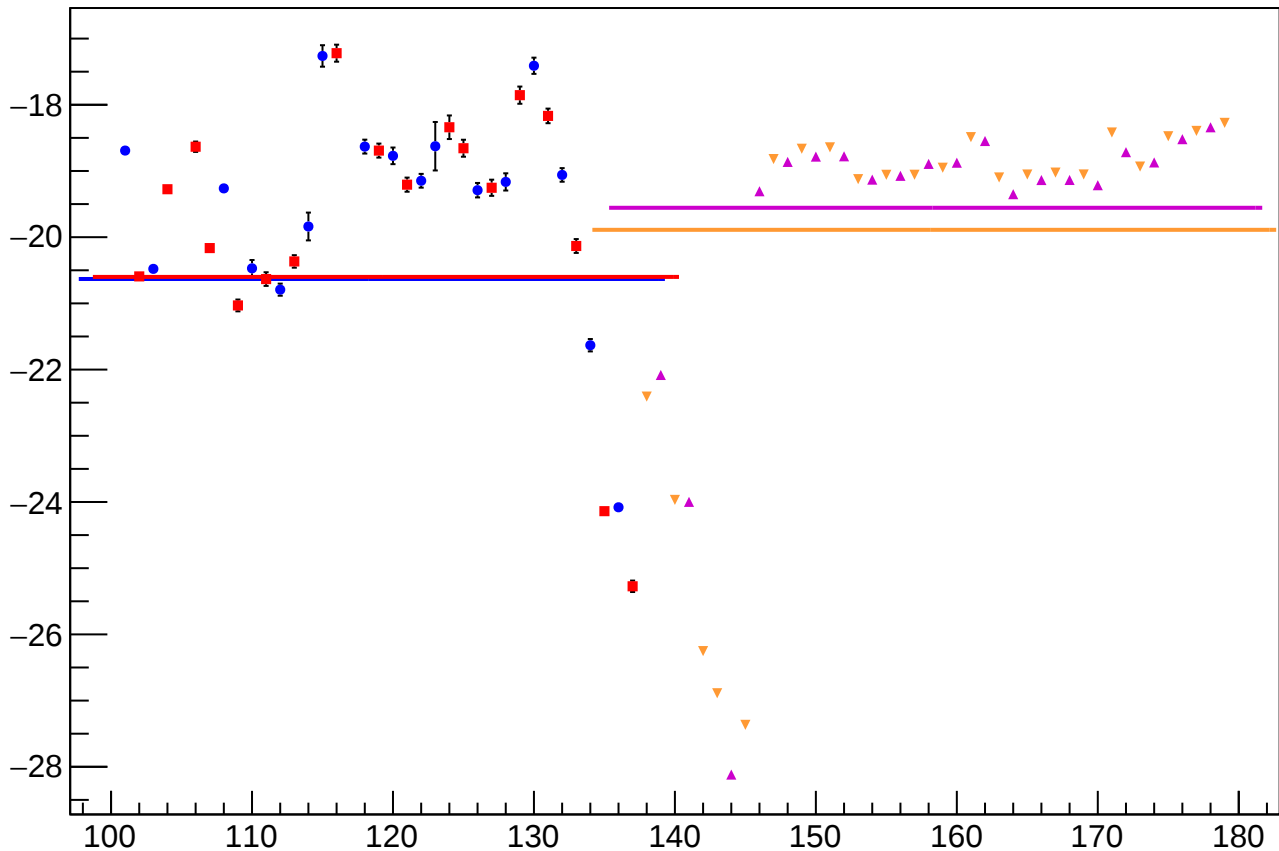
Right:  $4.542 \pm 0.259$   $\chi^2/\text{NDF}: 819.9/34$

In:  $8.050 \pm 0.163$   $\chi^2/\text{NDF}: 1315.0/36$

Out:  $8.016 \pm 0.161$   $\chi^2/\text{NDF}: 1685.4/39$

All:  $8.033 \pm 0.115$   $\chi^2/\text{NDF}: 3000.4/76$

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-20.631 \pm 0.019$   $\chi^2/\text{NDF}: 12501.6/16$

Left Out:  $-19.889 \pm 0.008$   $\chi^2/\text{NDF}: 89942.4/21$

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}: 11973.7/17$

Left In:  $-19.556 \pm 0.009$   $\chi^2/\text{NDF}: 52614.4/19$

Left:  $-19.724 \pm 0.006$   $\chi^2/\text{NDF}: 143327.4/41$

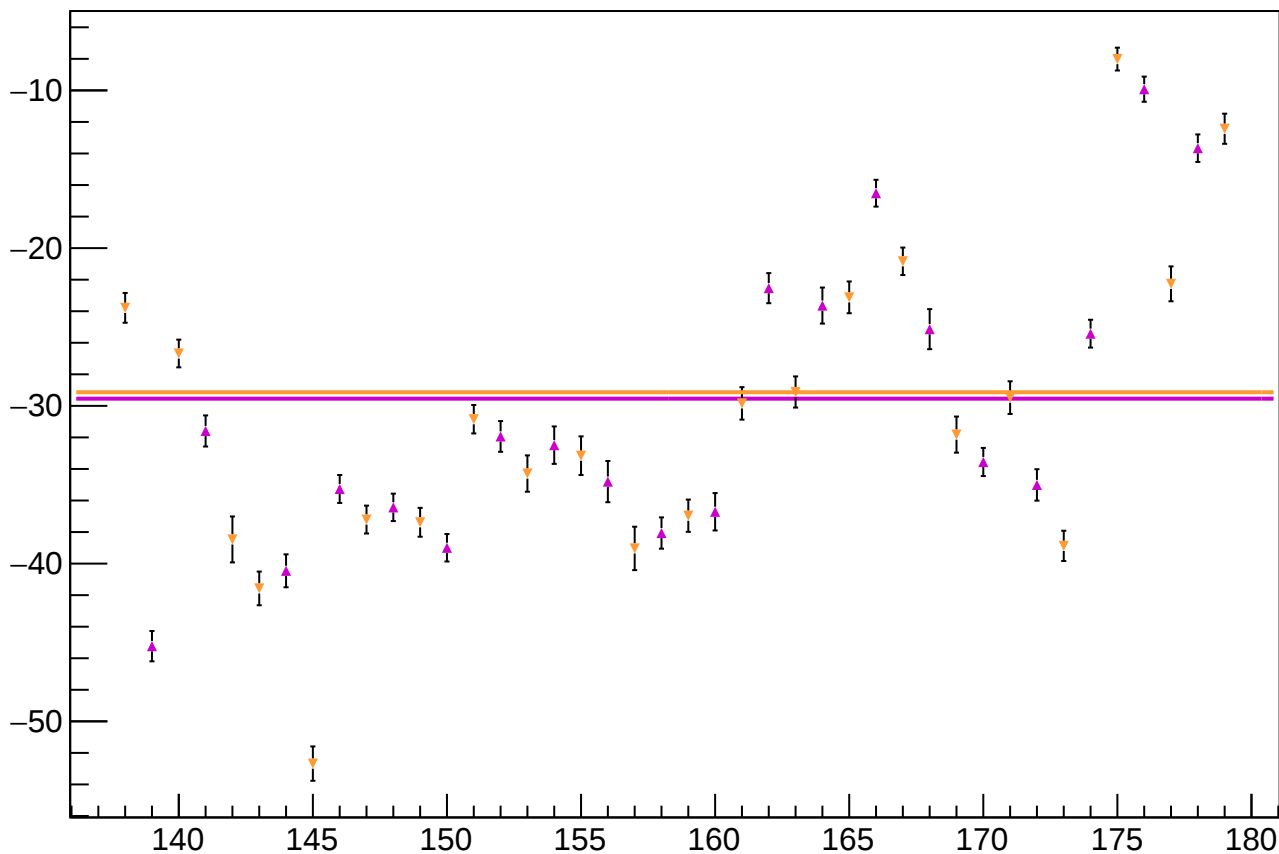
Right:  $-20.616 \pm 0.014$   $\chi^2/\text{NDF}: 24476.6/34$

In:  $-19.731 \pm 0.008$   $\chi^2/\text{NDF}: 67717.5/36$

Out:  $-20.002 \pm 0.008$   $\chi^2/\text{NDF}: 103040.6/39$

All:  $-19.867 \pm 0.005$   $\chi^2/\text{NDF}: 171364.6/76$

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: -29.136+/-0.213  $\chi^2/\text{NDF}$ :2425.4/21

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

Left In: -29.543+/-0.217  $\chi^2/\text{NDF}$ :2076.5/19

Left: -29.336+/-0.152  $\chi^2/\text{NDF}$ : 4503.7/41

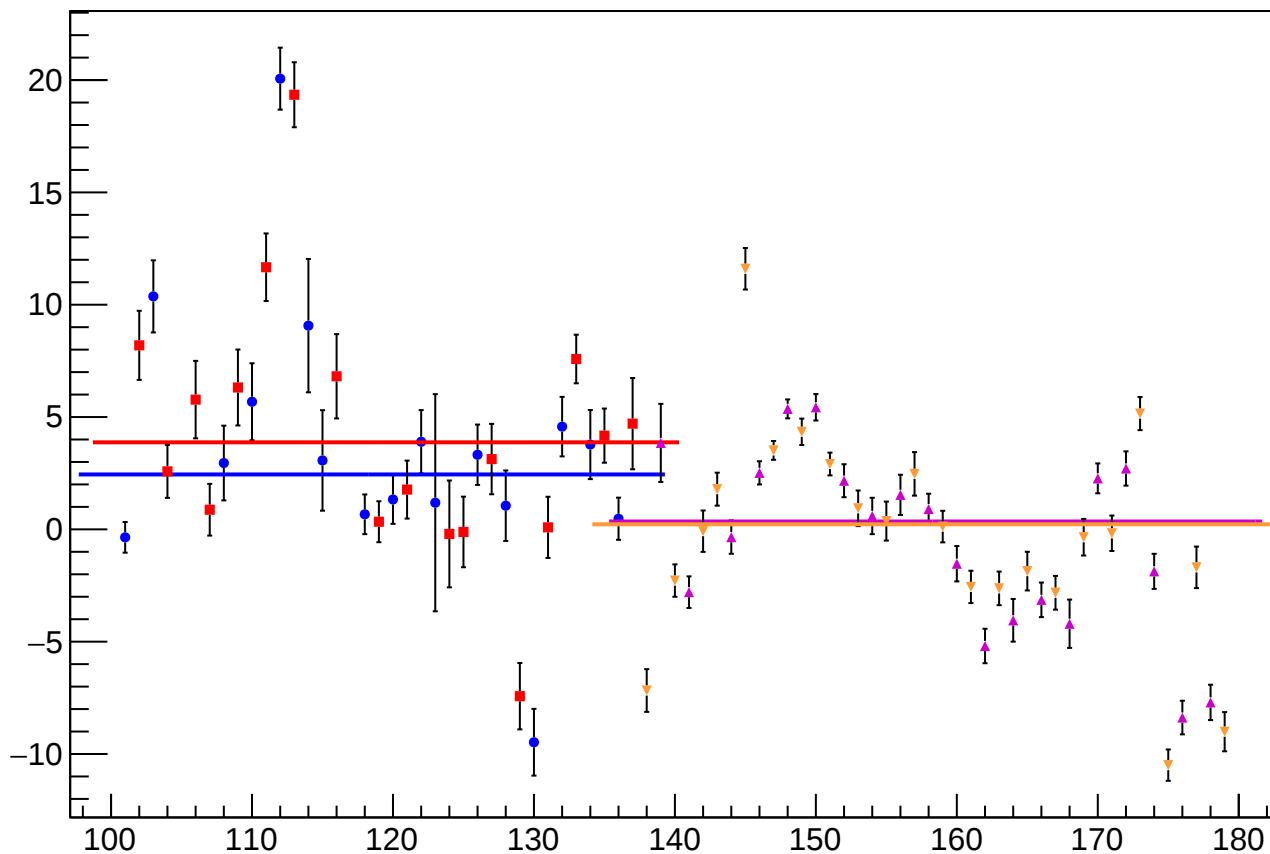
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -29.543+/-0.217  $\chi^2/\text{NDF}$ :2076.5/19

Out: -29.136+/-0.213  $\chi^2/\text{NDF}$ :2425.4/21

All: -29.336+/-0.152  $\chi^2/\text{NDF}$ : 4503.7/41

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.444 $\pm$ 0.312  $\chi^2$ /NDF: 292.7/16

Left Out: 0.225 $\pm$ 0.154  $\chi^2$ /NDF:824.2/21

Right Out: 3.874 $\pm$ 0.327  $\chi^2$ /NDF: 268.3/17

Left In: 0.350 $\pm$ 0.160  $\chi^2$ /NDF:652.2/19

Left: 0.285 $\pm$ 0.111  $\chi^2$ /NDF: 1476.7/41

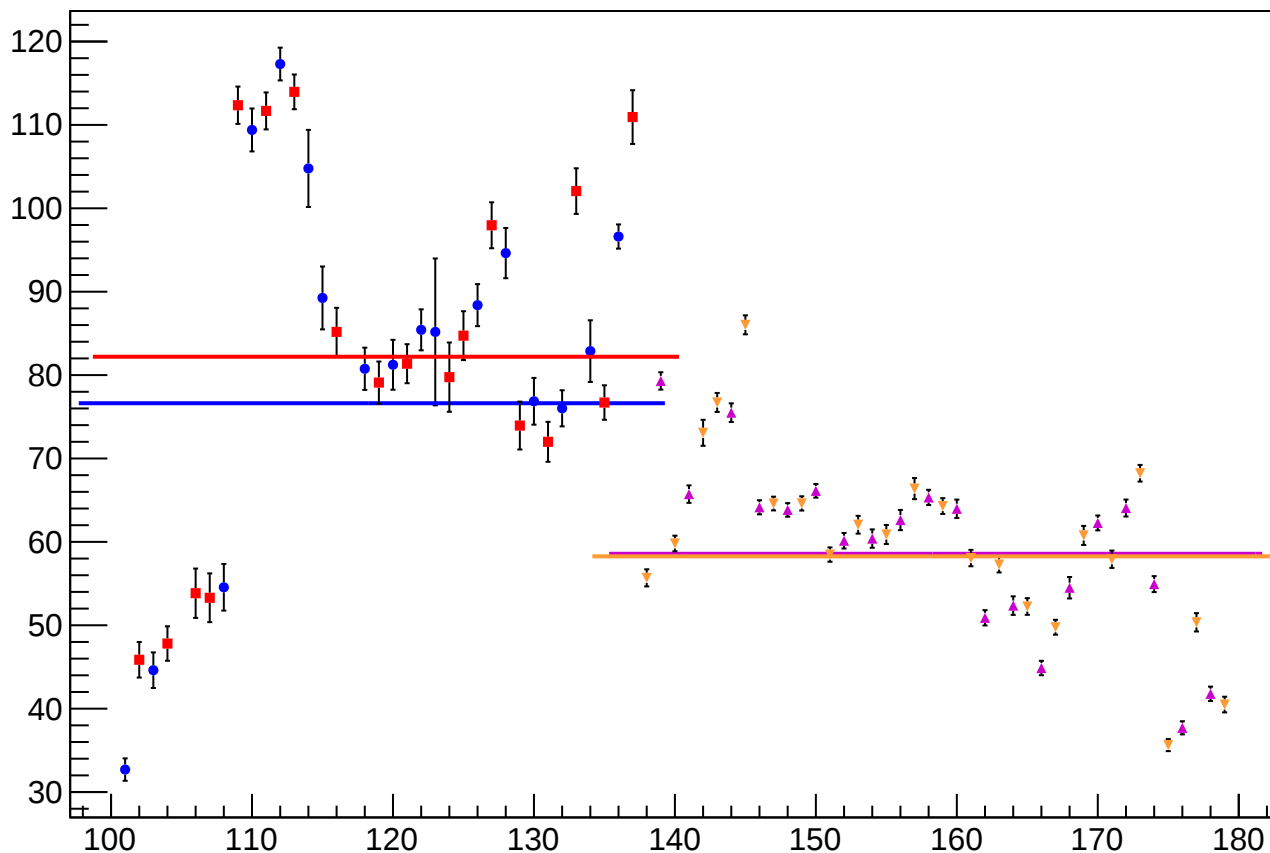
Right: 3.125 $\pm$ 0.226  $\chi^2$ /NDF: 571.0/34

In: 0.785 $\pm$ 0.142  $\chi^2$ /NDF:980.6/36

Out: 0.889 $\pm$ 0.139  $\chi^2$ /NDF:1194.5/39

All: 0.838 $\pm$ 0.100  $\chi^2$ /NDF: 2175.4/76

reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.626 $\pm$ 0.574  $\chi^2$ /NDF: 2262.8/16

Left Out: 58.266 $\pm$ 0.211  $\chi^2$ /NDF: 2794.4/21

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

Left In: 58.573 $\pm$ 0.214  $\chi^2$ /NDF: 2435.9/19

Left: 58.417 $\pm$ 0.150  $\chi^2$ /NDF: 5231.3/41

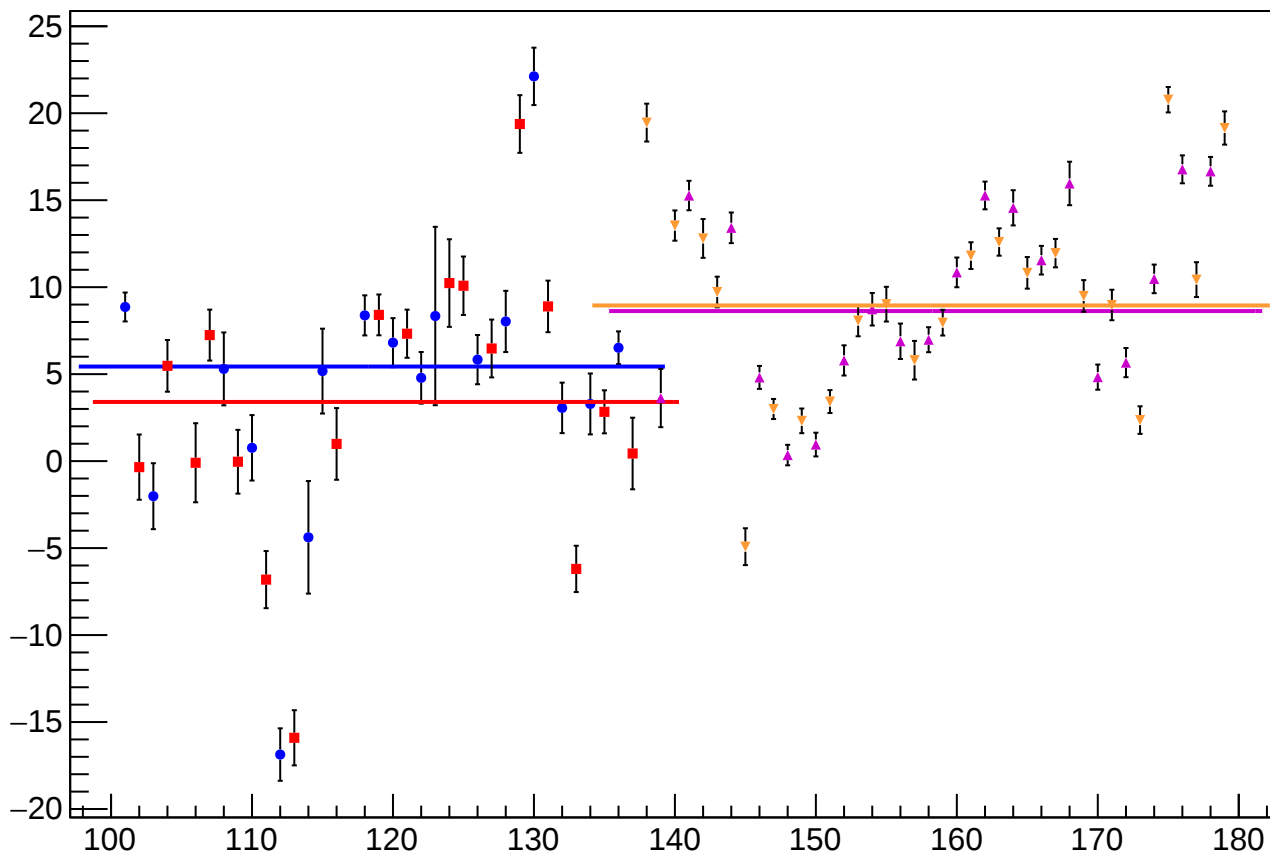
Right: 79.325 $\pm$ 0.413  $\chi^2$ /NDF: 3858.6/34

In: 60.768 $\pm$ 0.200  $\chi^2$ /NDF: 5566.2/36

Out: 60.945 $\pm$ 0.198  $\chi^2$ /NDF: 5791.6/39

All: 60.857 $\pm$ 0.141  $\chi^2$ /NDF: 11358.2/76

reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.437 \pm 0.358$   $\chi^2/\text{NDF}: 384.5/16$

Left Out:  $8.949 \pm 0.178$   $\chi^2/\text{NDF}: 1081.2/21$

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}: 420.9/17$

Left In:  $8.626 \pm 0.184$   $\chi^2/\text{NDF}: 875.9/19$

Left:  $8.792 \pm 0.128$   $\chi^2/\text{NDF}: 1958.7/41$

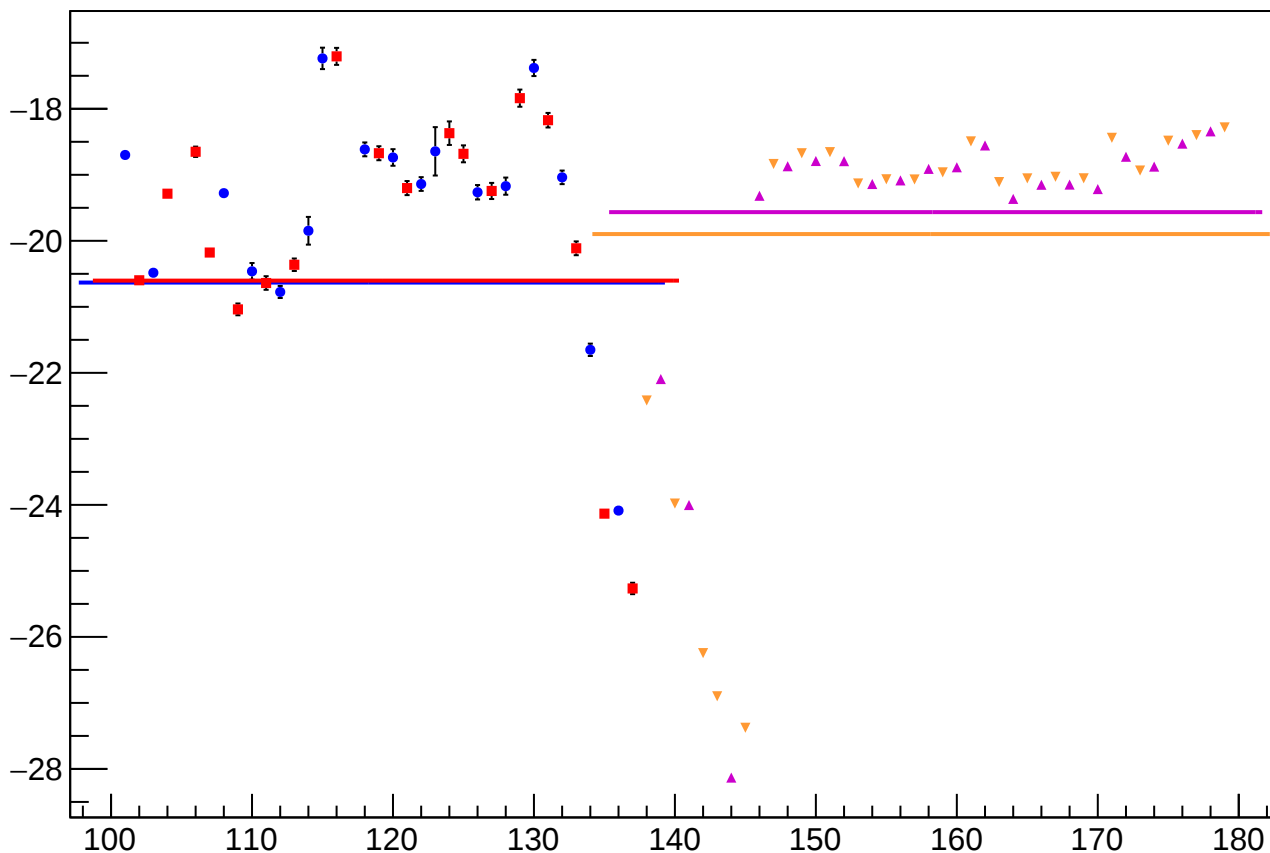
Right:  $4.467 \pm 0.259$   $\chi^2/\text{NDF}: 820.8/34$

In:  $7.961 \pm 0.164$   $\chi^2/\text{NDF}: 1323.2/36$

Out:  $7.927 \pm 0.161$   $\chi^2/\text{NDF}: 1680.2/39$

All:  $7.943 \pm 0.115$   $\chi^2/\text{NDF}: 3003.4/76$

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-20.632 \pm 0.019$   $\chi^2/\text{NDF}: 12543.2/16$

Left Out:  $-19.898 \pm 0.008$   $\chi^2/\text{NDF}: 89813.2/21$

Right Out:  $-20.603 \pm 0.019$   $\chi^2/\text{NDF}: 11925.8/17$

Left In:  $-19.565 \pm 0.009$   $\chi^2/\text{NDF}: 52569.6/19$

Left:  $-19.733 \pm 0.006$   $\chi^2/\text{NDF}: 143149.4/41$

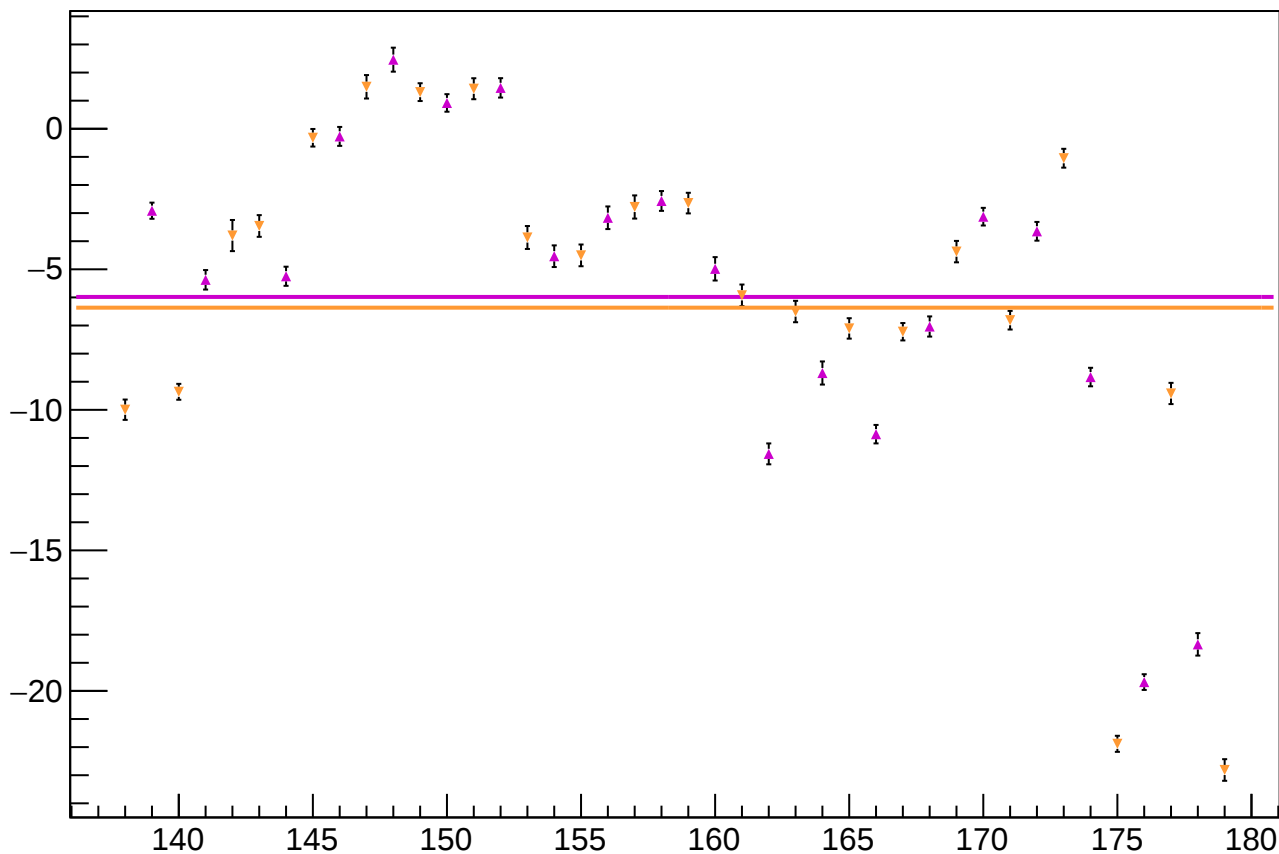
Right:  $-20.618 \pm 0.014$   $\chi^2/\text{NDF}: 24470.2/34$

In:  $-19.739 \pm 0.008$   $\chi^2/\text{NDF}: 67669.5/36$

Out:  $-20.010 \pm 0.008$   $\chi^2/\text{NDF}: 102843.3/39$

All:  $-19.875 \pm 0.005$   $\chi^2/\text{NDF}: 171117.4/76$

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: -6.365 $\pm$ 0.076  $\chi^2$ /NDF:7415.2/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.983 $\pm$ 0.078  $\chi^2$ /NDF:5979.3/19

Left: -6.177 $\pm$ 0.054  $\chi^2$ /NDF: 13406.8/41

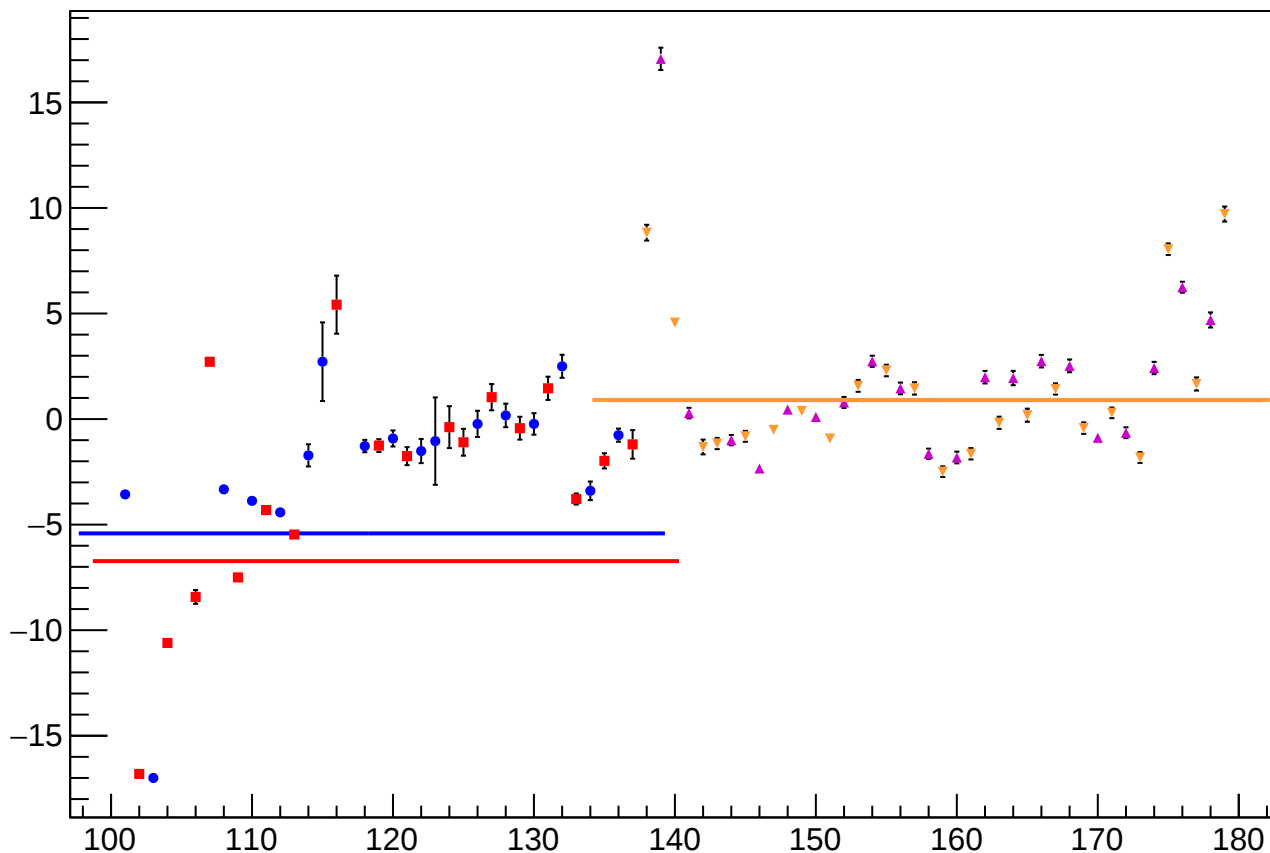
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -5.983 $\pm$ 0.078  $\chi^2$ /NDF:5979.3/19

Out: -6.365 $\pm$ 0.076  $\chi^2$ /NDF:7415.2/21

All: -6.177 $\pm$ 0.054  $\chi^2$ /NDF: 13406.8/41

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -5.415+/-0.055  $\chi^2/\text{NDF}$ : 9255.1/16

Left Out: 0.907+/-0.057  $\chi^2/\text{NDF}$ : 2721.9/21

Right Out: -6.729+/-0.060  $\chi^2/\text{NDF}$ : 11217.0/17

Left In: 0.900+/-0.059  $\chi^2/\text{NDF}$ : 2253.4/19

Left: 0.904+/-0.041  $\chi^2/\text{NDF}$ : 4975.2/41

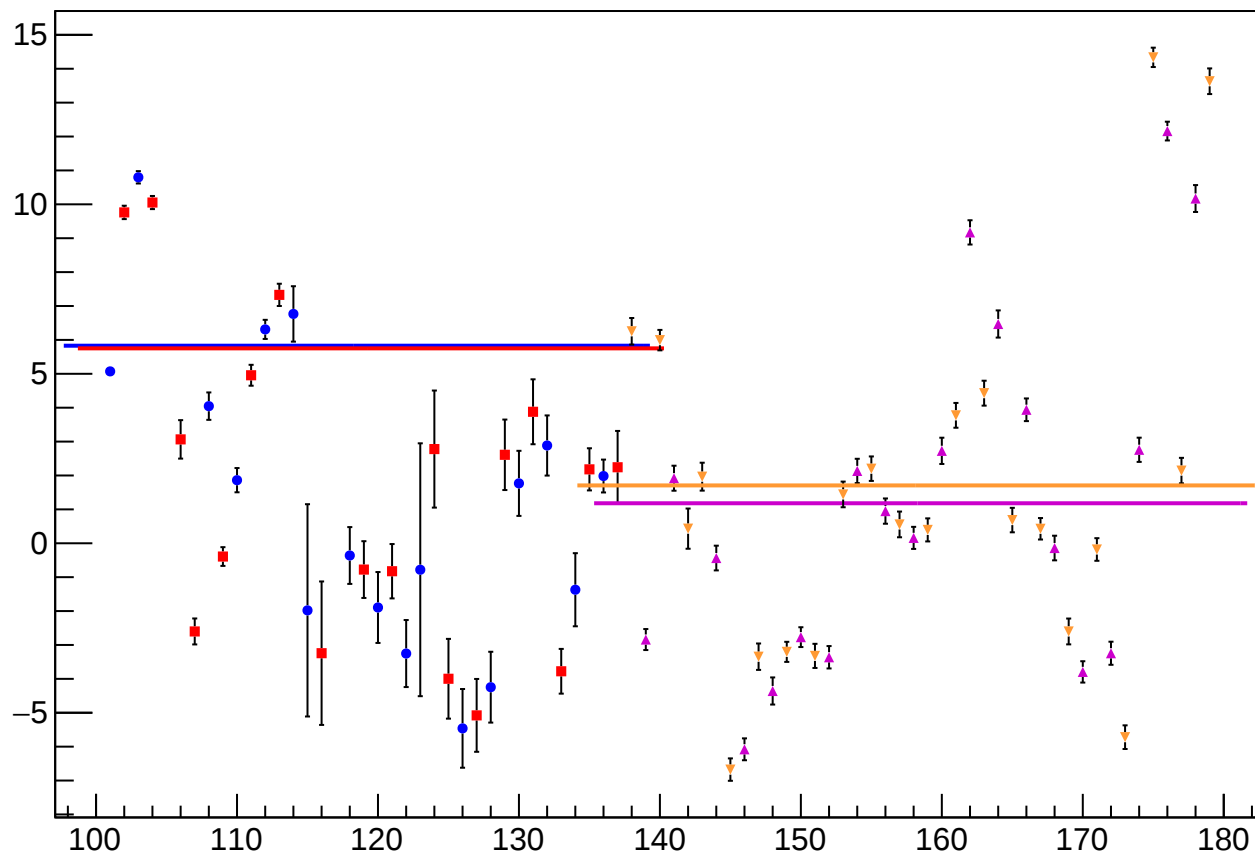
Right: -6.014+/-0.040  $\chi^2/\text{NDF}$ : 20734.4/34

In: -2.504+/-0.040  $\chi^2/\text{NDF}$ : 17639.0/36

Out: -2.712+/-0.041  $\chi^2/\text{NDF}$ : 22510.2/39

All: -2.606+/-0.029  $\chi^2/\text{NDF}$ : 40162.2/76

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.829 \pm 0.090$   $\chi^2/\text{NDF}$ : 1448.3/16

Left Out:  $1.707 \pm 0.076$   $\chi^2/\text{NDF}$ : 5325.8/21

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}$ : 2511.0/17

Left In:  $1.181 \pm 0.077$   $\chi^2/\text{NDF}$ : 4573.2/19

Left:  $1.447 \pm 0.054$   $\chi^2/\text{NDF}$ : 9922.8/41

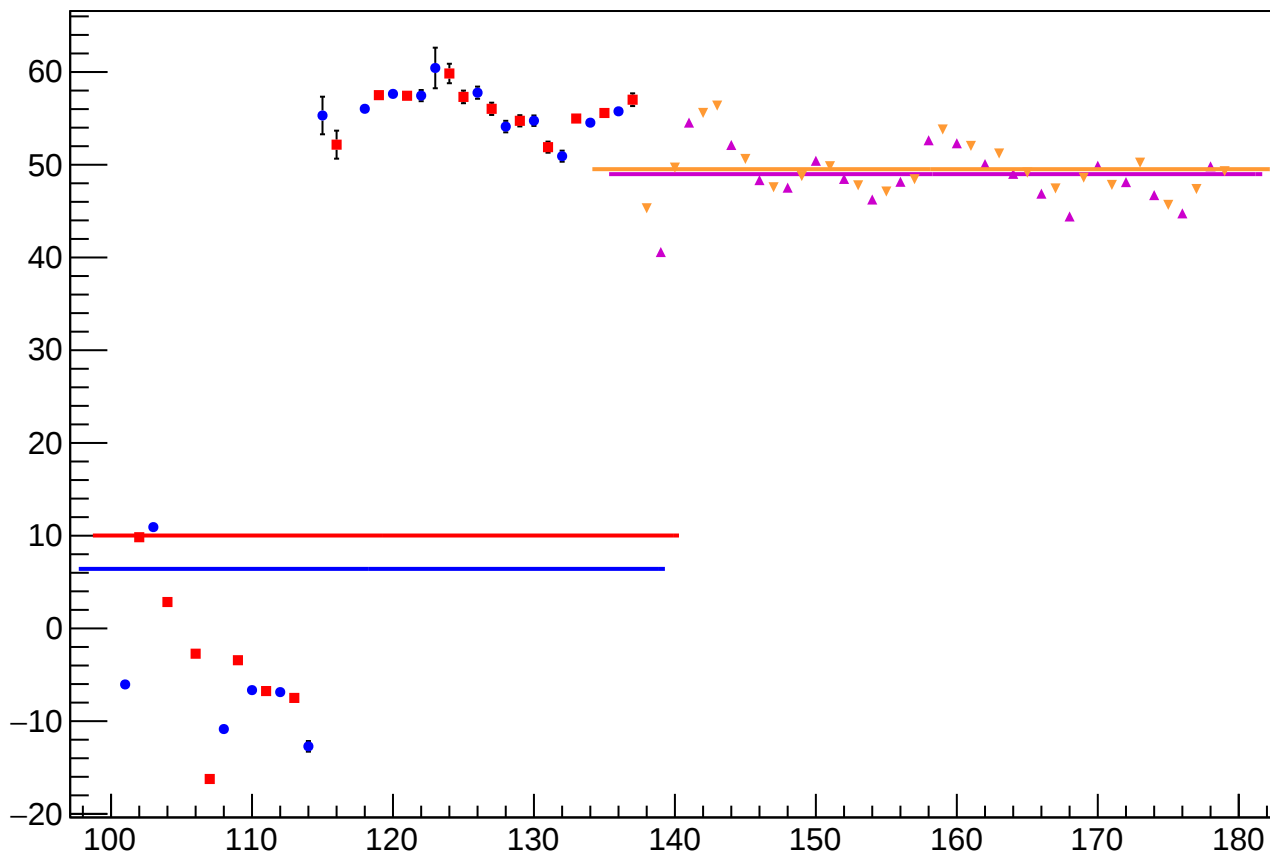
Right:  $5.792 \pm 0.066$   $\chi^2/\text{NDF}$ : 3959.6/34

In:  $3.149 \pm 0.058$   $\chi^2/\text{NDF}$ : 7572.7/36

Out:  $3.253 \pm 0.060$   $\chi^2/\text{NDF}$ : 8927.1/39

All:  $3.200 \pm 0.042$   $\chi^2/\text{NDF}$ : 16501.4/76

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 6.421+/-0.065  $\chi^2/\text{NDF}$ : 123109.7/16

Left Out: 49.524+/-0.065  $\chi^2/\text{NDF}$ :1625.9/21

Right Out: 10.019+/-0.071  $\chi^2/\text{NDF}$ : 122082.4/17

Left In: 48.988+/-0.067  $\chi^2/\text{NDF}$ :1752.4/19

Left: 49.265+/-0.047  $\chi^2/\text{NDF}$ : 3411.2/41

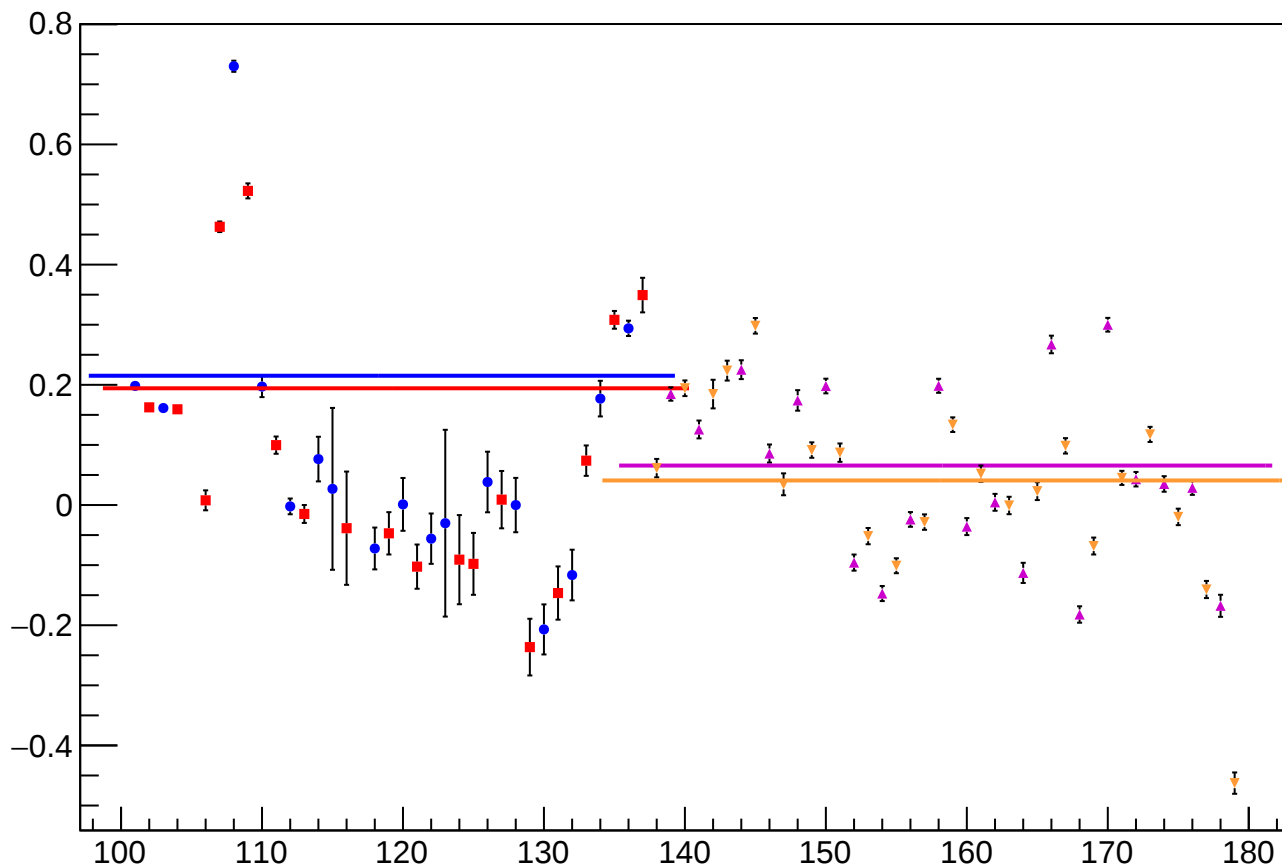
Right: 8.061+/-0.048  $\chi^2/\text{NDF}$ : 246600.2/34

In: 26.931+/-0.047  $\chi^2/\text{NDF}$ :333213.8/36

Out: 31.469+/-0.048  $\chi^2/\text{NDF}$ :293124.9/39

All: 29.141+/-0.033  $\chi^2/\text{NDF}$ : 630958.8/76

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.215+/-0.003  $\chi^2/\text{NDF}$ : 3927.2/16

Left Out: 0.041+/-0.003  $\chi^2/\text{NDF}$ : 2095.9/21

Right Out: 0.194+/-0.003  $\chi^2/\text{NDF}$ : 2520.1/17

Left In: 0.066+/-0.003  $\chi^2/\text{NDF}$ : 2311.7/19

Left: 0.053+/-0.002  $\chi^2/\text{NDF}$ : 4442.1/41

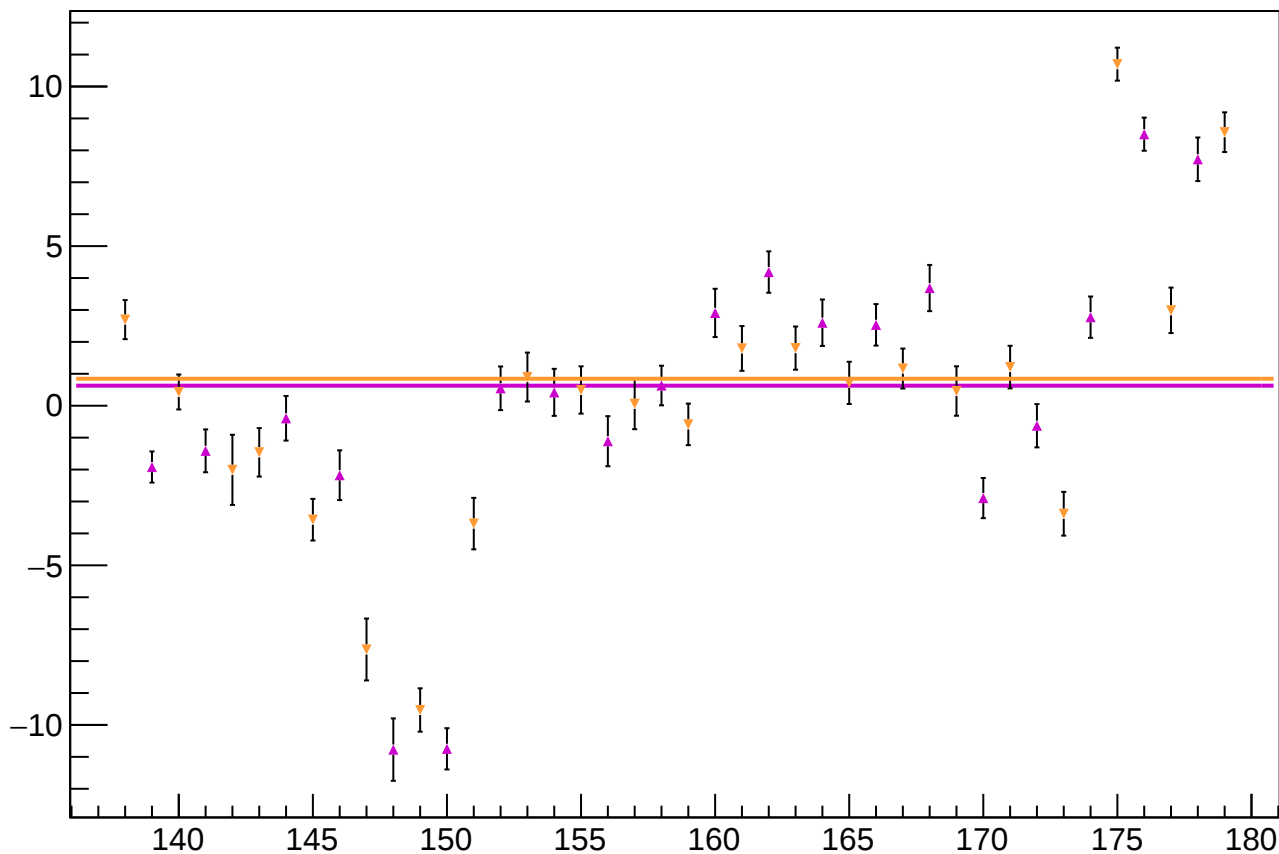
Right: 0.205+/-0.002  $\chi^2/\text{NDF}$ : 6475.9/34

In: 0.146+/-0.002  $\chi^2/\text{NDF}$ : 7580.2/36

Out: 0.124+/-0.002  $\chi^2/\text{NDF}$ : 6045.5/39

All: 0.135+/-0.001  $\chi^2/\text{NDF}$ : 13687.5/76

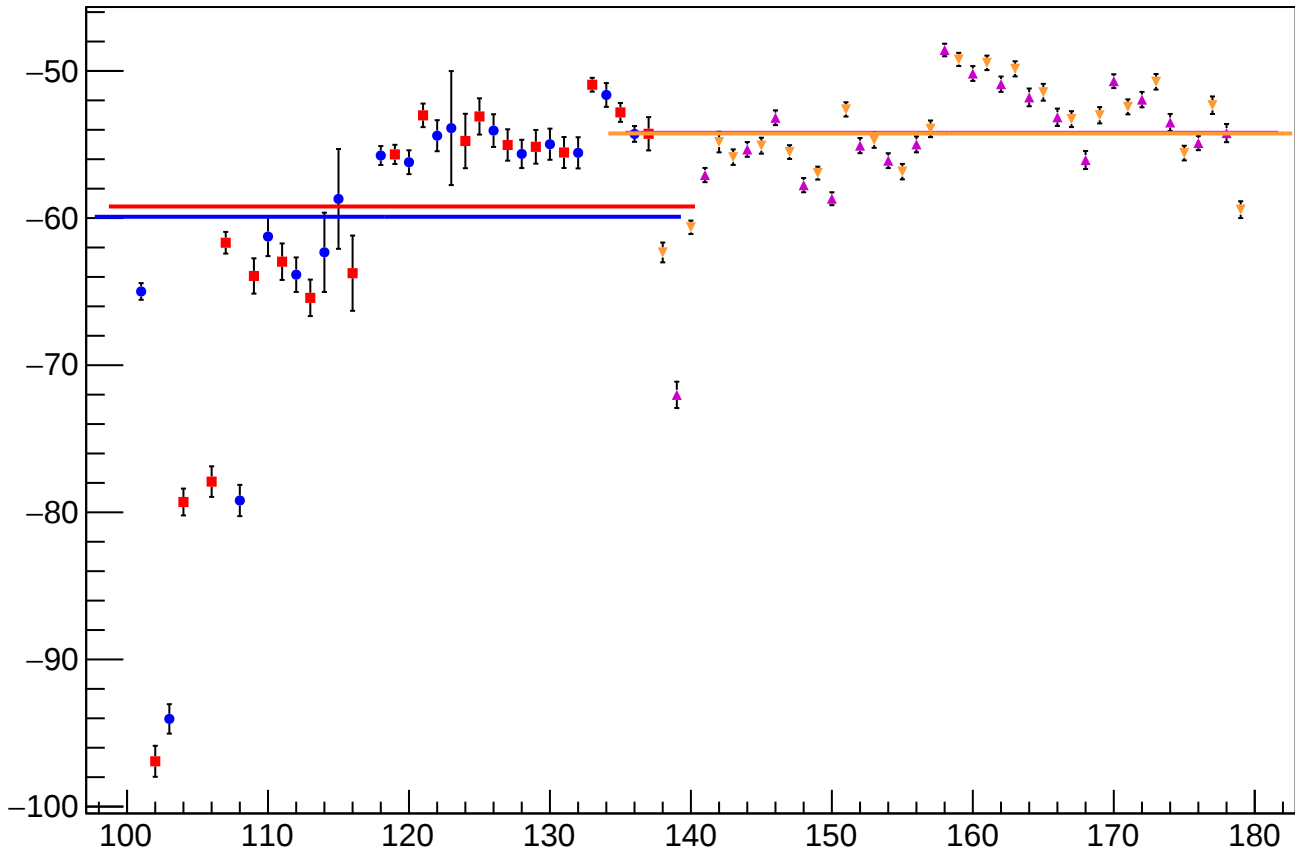
reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.846 $\pm$ 0.147  $\chi^2$ /NDF:989.7/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.628 $\pm$ 0.149  $\chi^2$ /NDF:959.6/19

Left: 0.739 $\pm$ 0.105  $\chi^2$ /NDF: 1950.4/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.628 $\pm$ 0.149  $\chi^2$ /NDF:959.6/19  
 Out: 0.846 $\pm$ 0.147  $\chi^2$ /NDF:989.7/21  
 All: 0.739 $\pm$ 0.105  $\chi^2$ /NDF: 1950.4/41

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-59.911 \pm 0.223$   $\chi^2/\text{NDF}$ : 1980.8/16

Left Out:  $-54.248 \pm 0.112$   $\chi^2/\text{NDF}$ : 914.3/21

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

Left In:  $-54.205 \pm 0.117$   $\chi^2/\text{NDF}$ : 998.9/19

Left:  $-54.228 \pm 0.081$   $\chi^2/\text{NDF}$ : 1913.2/41

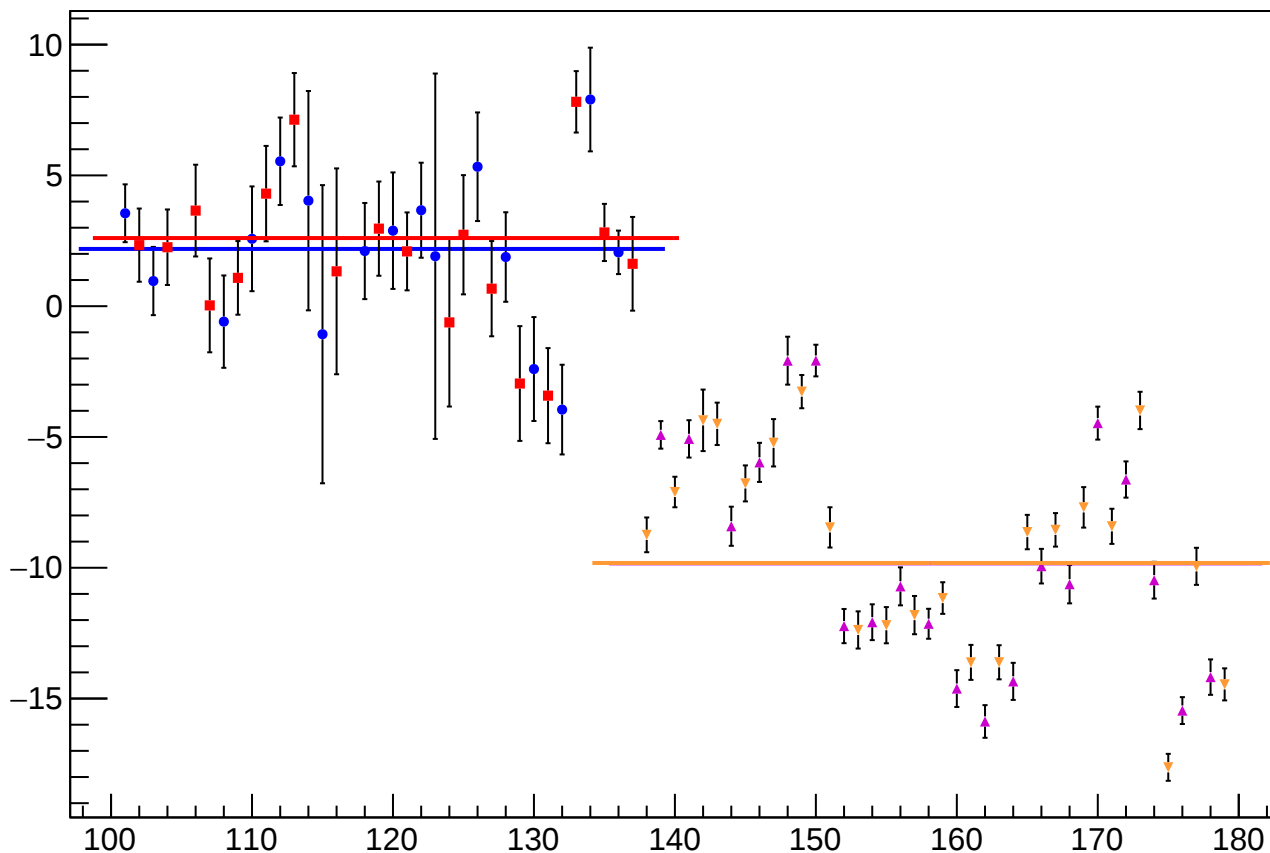
Right:  $-59.544 \pm 0.154$   $\chi^2/\text{NDF}$ : 4728.9/34

In:  $-55.432 \pm 0.104$   $\chi^2/\text{NDF}$ : 3492.7/36

Out:  $-55.323 \pm 0.099$   $\chi^2/\text{NDF}$ : 4085.2/39

All:  $-55.375 \pm 0.071$   $\chi^2/\text{NDF}$ : 7578.4/76

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $2.189 \pm 0.405$   $\chi^2/\text{NDF}: 39.1/16$   
 Left Out:  $-9.817 \pm 0.145$   $\chi^2/\text{NDF}: 720.2/21$   
 Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}: 50.8/17$   
 Left In:  $-9.832 \pm 0.148$   $\chi^2/\text{NDF}: 877.3/19$

Left:  $-9.825 \pm 0.104$   $\chi^2/\text{NDF}: 1597.5/41$   
 Right:  $2.404 \pm 0.281$   $\chi^2/\text{NDF}: 90.4/34$   
 In:  $-8.417 \pm 0.139$   $\chi^2/\text{NDF}: 1695.4/36$   
 Out:  $-8.306 \pm 0.136$   $\chi^2/\text{NDF}: 1658.1/39$   
 All:  $-8.360 \pm 0.097$   $\chi^2/\text{NDF}: 3353.8/76$

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.806 \pm 0.254$   $\chi^2/\text{NDF}: 4662.8/16$

Left Out:  $-38.241 \pm 0.126$   $\chi^2/\text{NDF}: 881.7/21$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

Left In:  $-37.821 \pm 0.131$   $\chi^2/\text{NDF}: 1070.3/19$

Left:  $-38.038 \pm 0.091$   $\chi^2/\text{NDF}: 1957.3/41$

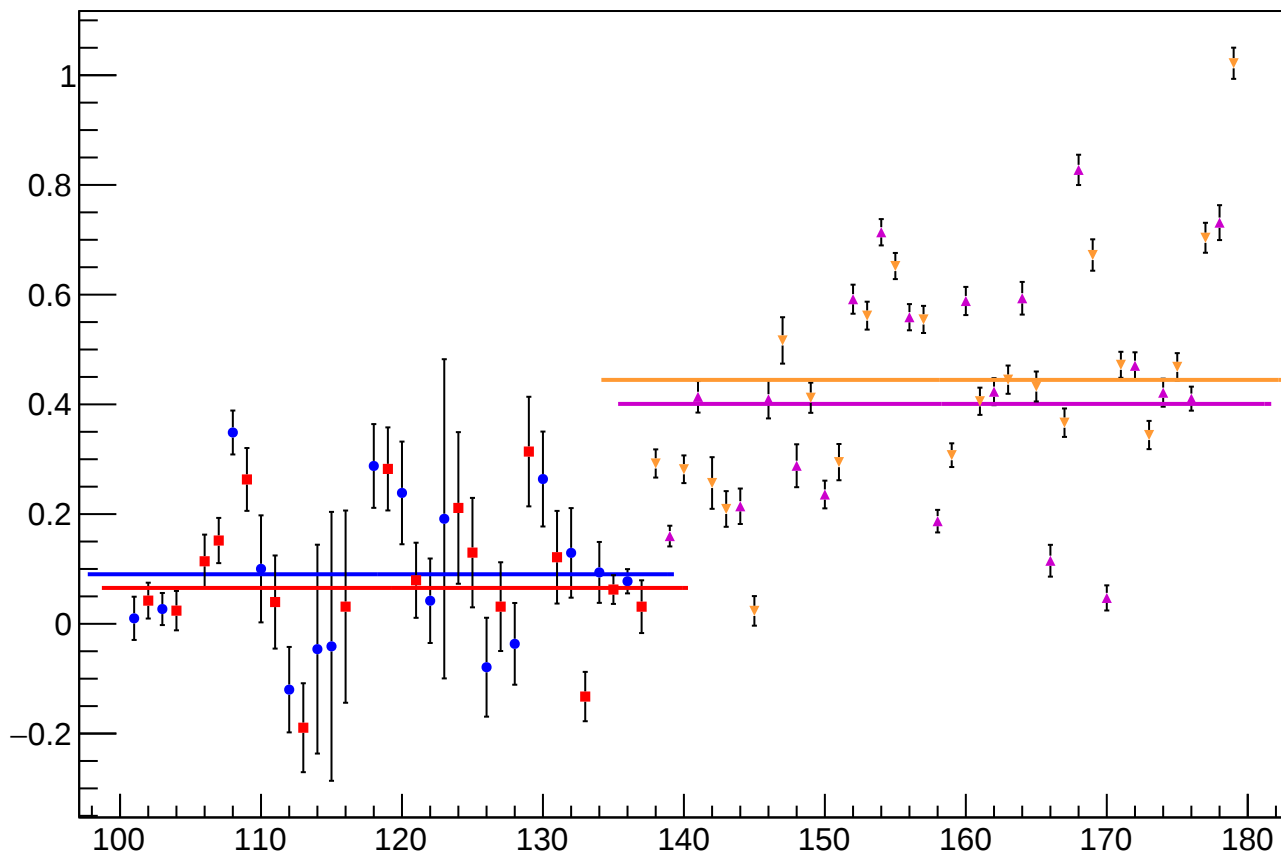
Right:  $-32.829 \pm 0.176$   $\chi^2/\text{NDF}: 10413.1/34$

In:  $-36.769 \pm 0.116$   $\chi^2/\text{NDF}: 6040.4/36$

Out:  $-37.105 \pm 0.112$   $\chi^2/\text{NDF}: 7016.1/39$

All:  $-36.943 \pm 0.081$   $\chi^2/\text{NDF}: 13060.8/76$

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.090 $\pm$ 0.013  $\chi^2$ /NDF: 79.4/16

Left Out: 0.445 $\pm$ 0.006  $\chi^2$ /NDF:1165.6/21

Right Out: 0.065 $\pm$ 0.012  $\chi^2$ /NDF: 65.7/17

Left In: 0.401 $\pm$ 0.006  $\chi^2$ /NDF:1408.3/19

Left: 0.423 $\pm$ 0.004  $\chi^2$ /NDF: 2603.0/41

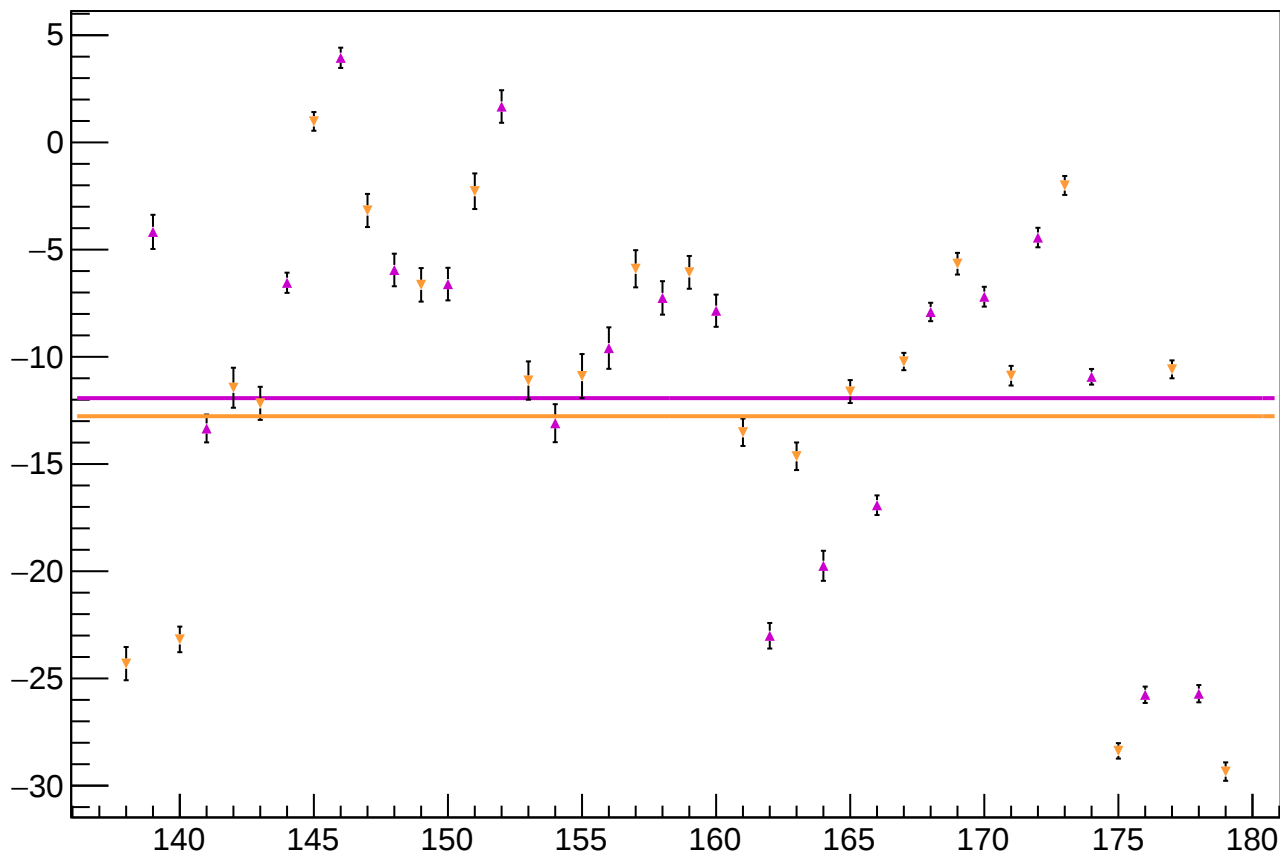
Right: 0.077 $\pm$ 0.009  $\chi^2$ /NDF: 147.0/34

In: 0.348 $\pm$ 0.005  $\chi^2$ /NDF:1982.2/36

Out: 0.376 $\pm$ 0.005  $\chi^2$ /NDF:2018.0/39

All: 0.362 $\pm$ 0.004  $\chi^2$ /NDF: 4014.7/76

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -12.770+/-0.120  $\chi^2/\text{NDF}$ :6298.6/21

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

Left In: -11.927+/-0.120  $\chi^2/\text{NDF}$ :5406.8/19

Left: -12.351+/-0.085  $\chi^2/\text{NDF}$ : 11730.1/41

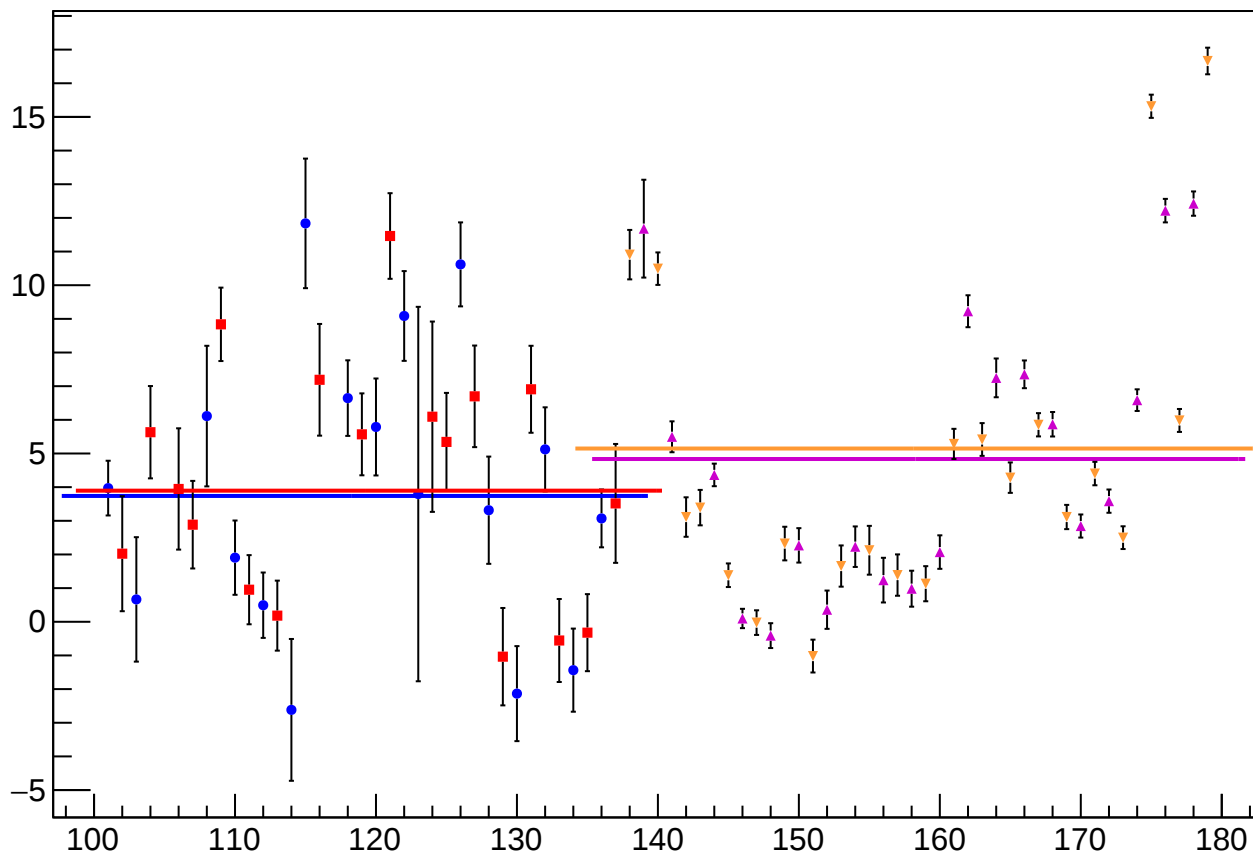
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.927+/-0.120  $\chi^2/\text{NDF}$ :5406.8/19

Out: -12.770+/-0.120  $\chi^2/\text{NDF}$ :6298.6/21

All: -12.351+/-0.085  $\chi^2/\text{NDF}$ : 11730.1/41

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.739 \pm 0.309$   $\chi^2/\text{NDF}$ : 136.9/16

Left Out:  $5.148 \pm 0.092$   $\chi^2/\text{NDF}$ : 2691.1/21

Right Out:  $3.896 \pm 0.316$   $\chi^2/\text{NDF}$ : 134.9/17

Left In:  $4.836 \pm 0.093$   $\chi^2/\text{NDF}$ : 1831.3/19

Left:  $4.993 \pm 0.065$   $\chi^2/\text{NDF}$ : 4528.1/41

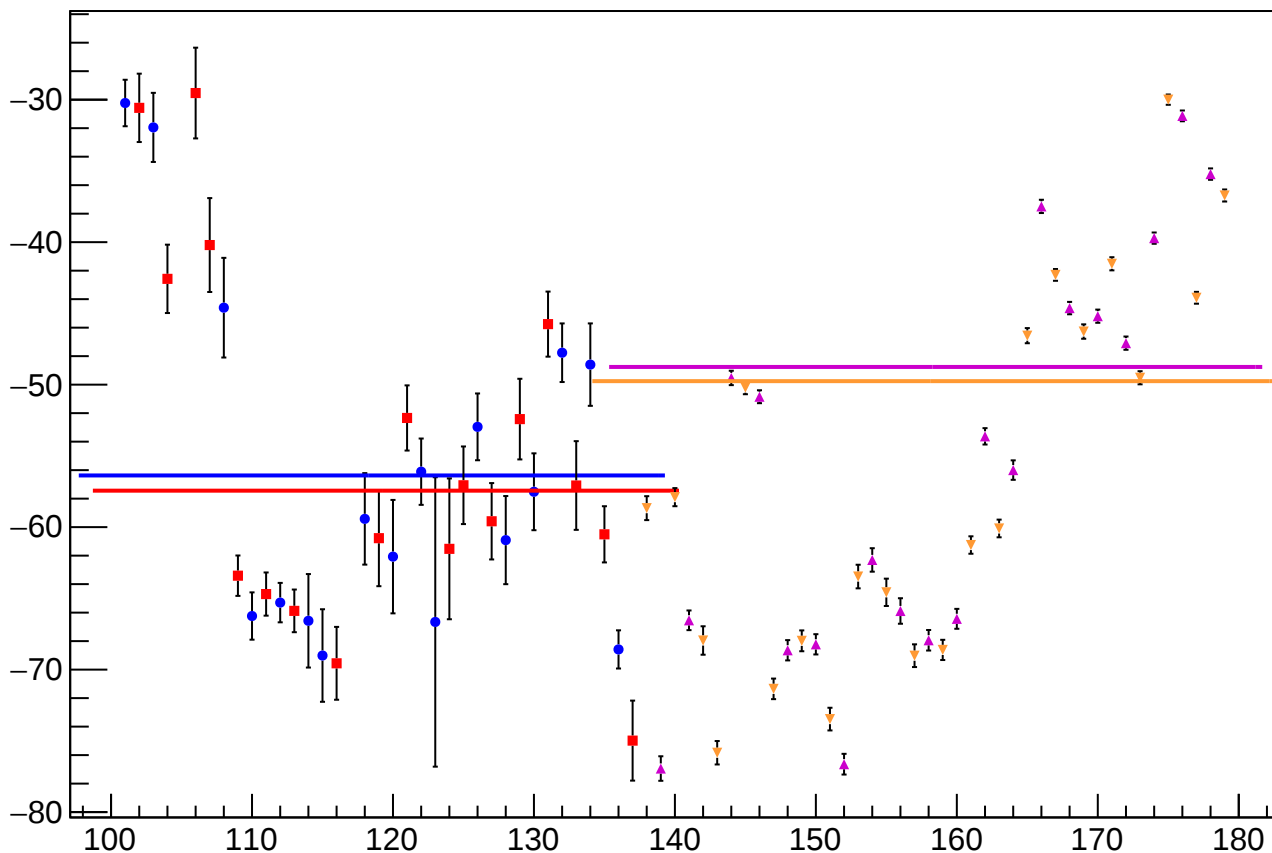
Right:  $3.815 \pm 0.221$   $\chi^2/\text{NDF}$ : 271.9/34

In:  $4.746 \pm 0.089$   $\chi^2/\text{NDF}$ : 1979.7/36

Out:  $5.050 \pm 0.088$   $\chi^2/\text{NDF}$ : 2840.4/39

All:  $4.898 \pm 0.063$   $\chi^2/\text{NDF}$ : 4826.0/76

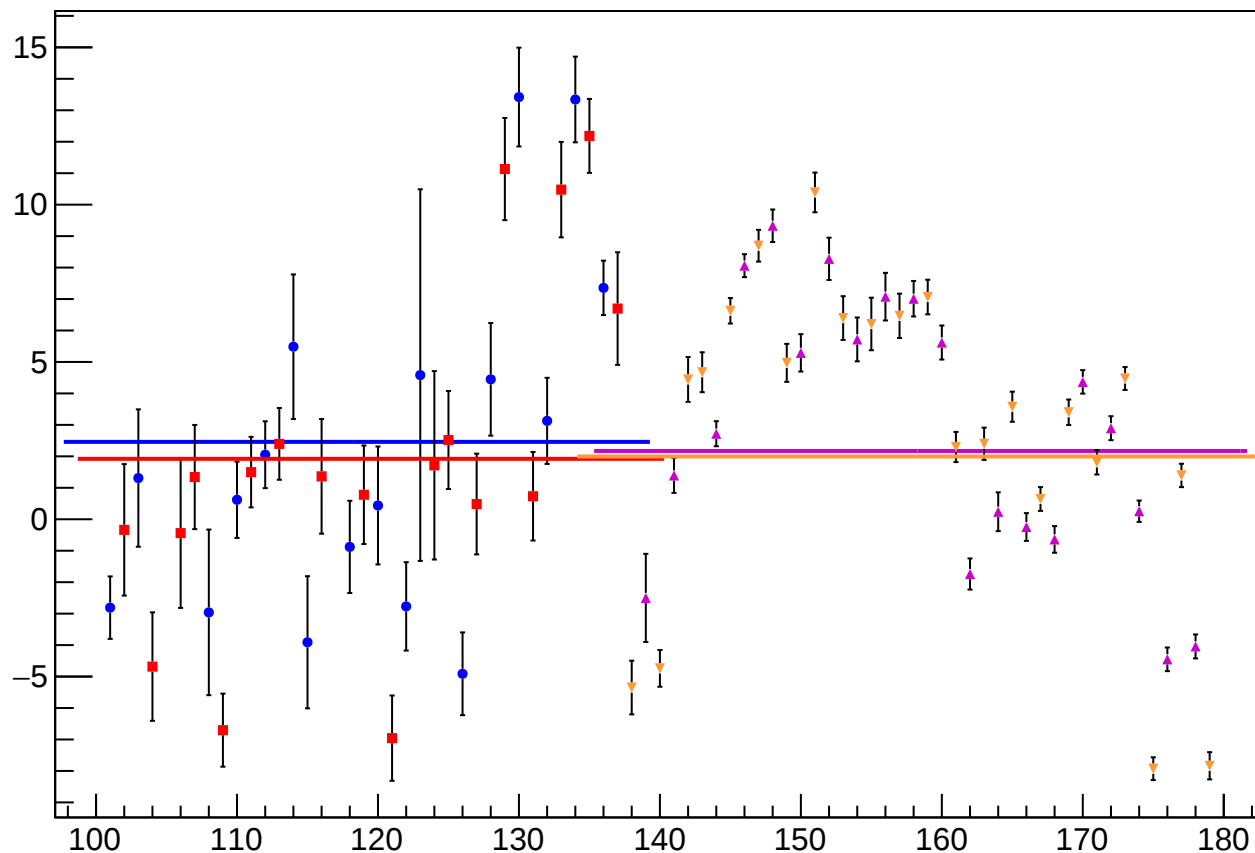
reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-56.373 \pm 0.543$   $\chi^2/\text{NDF}: 587.6/16$   
 Left Out:  $-49.754 \pm 0.120$   $\chi^2/\text{NDF}: 11316.5/21$   
 Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}: 441.0/17$   
 Left In:  $-48.757 \pm 0.121$   $\chi^2/\text{NDF}: 11517.4/19$

Left:  $-49.258 \pm 0.085$   $\chi^2/\text{NDF}: 22868.3/41$   
 Right:  $-56.912 \pm 0.382$   $\chi^2/\text{NDF}: 1030.5/34$   
 In:  $-49.115 \pm 0.118$   $\chi^2/\text{NDF}: 12292.5/36$   
 Out:  $-50.119 \pm 0.117$   $\chi^2/\text{NDF}: 11952.6/39$   
 All:  $-49.620 \pm 0.083$   $\chi^2/\text{NDF}: 24281.7/76$

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $2.460 \pm 0.346$   $\chi^2/\text{NDF}$ : 243.9/16

Left Out:  $1.996 \pm 0.104$   $\chi^2/\text{NDF}$ : 2288.0/21

Right Out:  $1.922 \pm 0.355$   $\chi^2/\text{NDF}$ : 265.1/17

Left In:  $2.171 \pm 0.105$   $\chi^2/\text{NDF}$ : 1553.9/19

Left:  $2.082 \pm 0.074$   $\chi^2/\text{NDF}$ : 3843.3/41

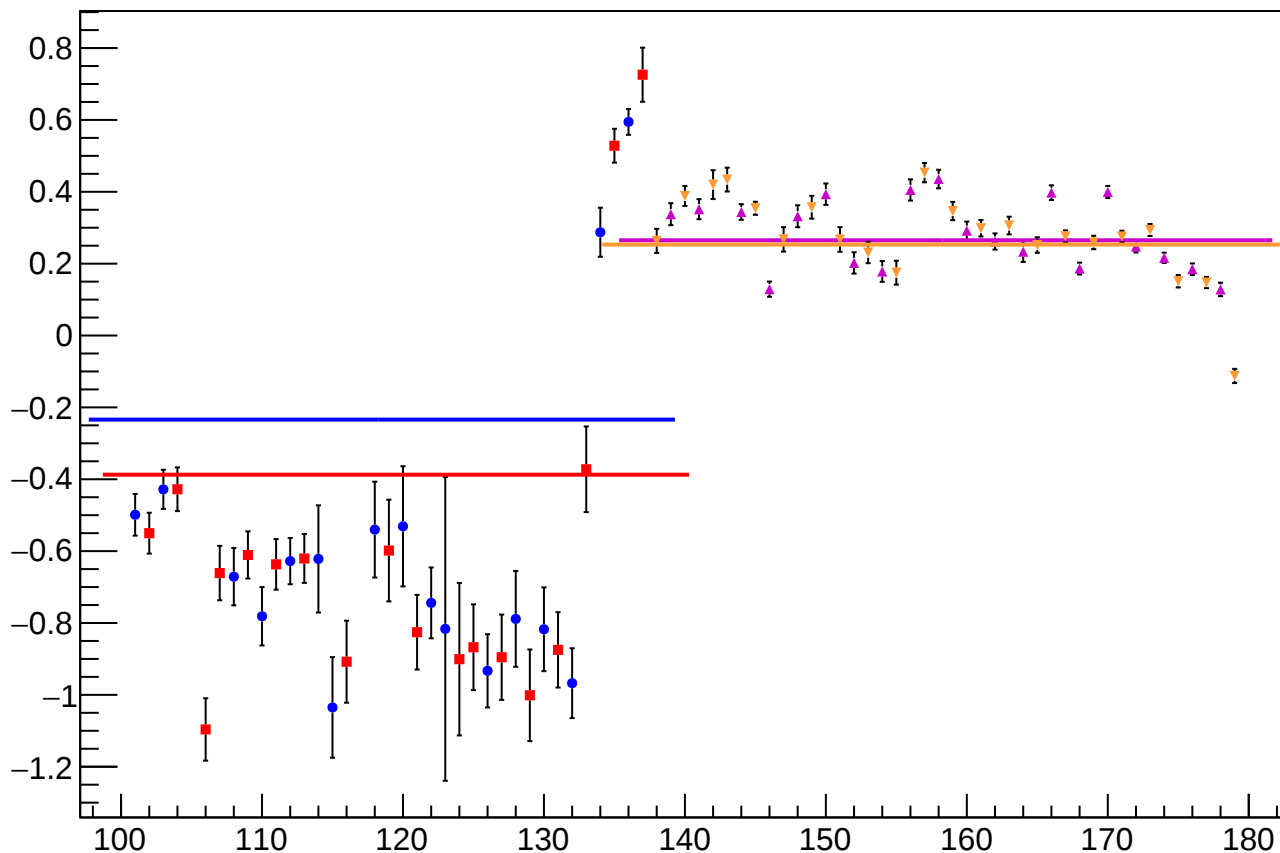
Right:  $2.198 \pm 0.248$   $\chi^2/\text{NDF}$ : 510.2/34

In:  $2.195 \pm 0.100$   $\chi^2/\text{NDF}$ : 1798.5/36

Out:  $1.990 \pm 0.100$   $\chi^2/\text{NDF}$ : 2553.1/39

All:  $2.092 \pm 0.071$   $\chi^2/\text{NDF}$ : 4353.7/76

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.234 \pm 0.019$   $\chi^2/\text{NDF}$ : 958.3/16

Left Out:  $0.253 \pm 0.005$   $\chi^2/\text{NDF}$ : 629.4/21

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

Left In:  $0.265 \pm 0.005$   $\chi^2/\text{NDF}$ : 393.5/19

Left:  $0.259 \pm 0.003$   $\chi^2/\text{NDF}$ : 1026.0/41

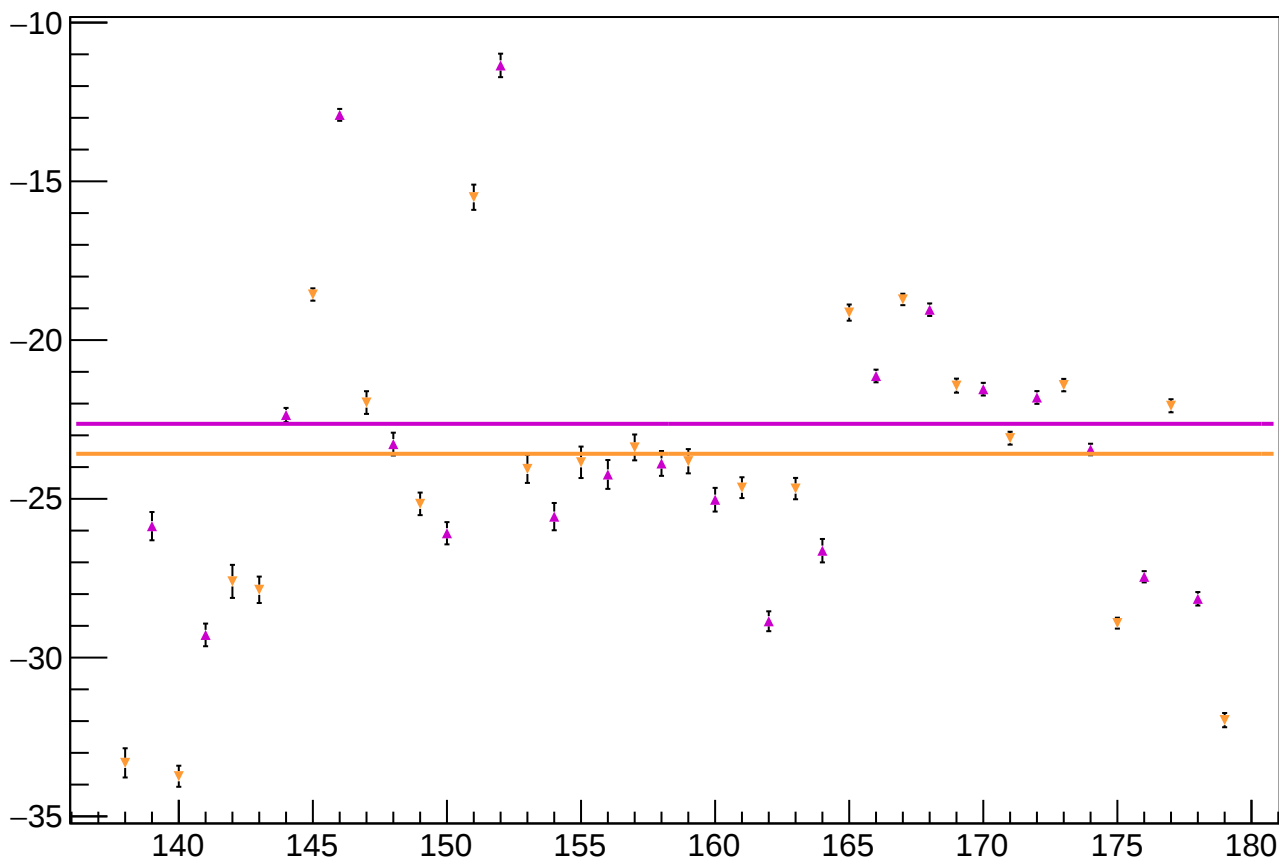
Right:  $-0.310 \pm 0.013$   $\chi^2/\text{NDF}$ : 1837.6/34

In:  $0.235 \pm 0.005$   $\chi^2/\text{NDF}$ : 2007.0/36

Out:  $0.215 \pm 0.005$   $\chi^2/\text{NDF}$ : 2544.2/39

All:  $0.225 \pm 0.003$   $\chi^2/\text{NDF}$ : 4560.2/76

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -23.581+/-0.057  $\chi^2/\text{NDF}$ : 6359.3/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.637+/-0.057  $\chi^2/\text{NDF}$ : 6615.1/19

Left: -23.106+/-0.040  $\chi^2/\text{NDF}$ : 13111.7/41

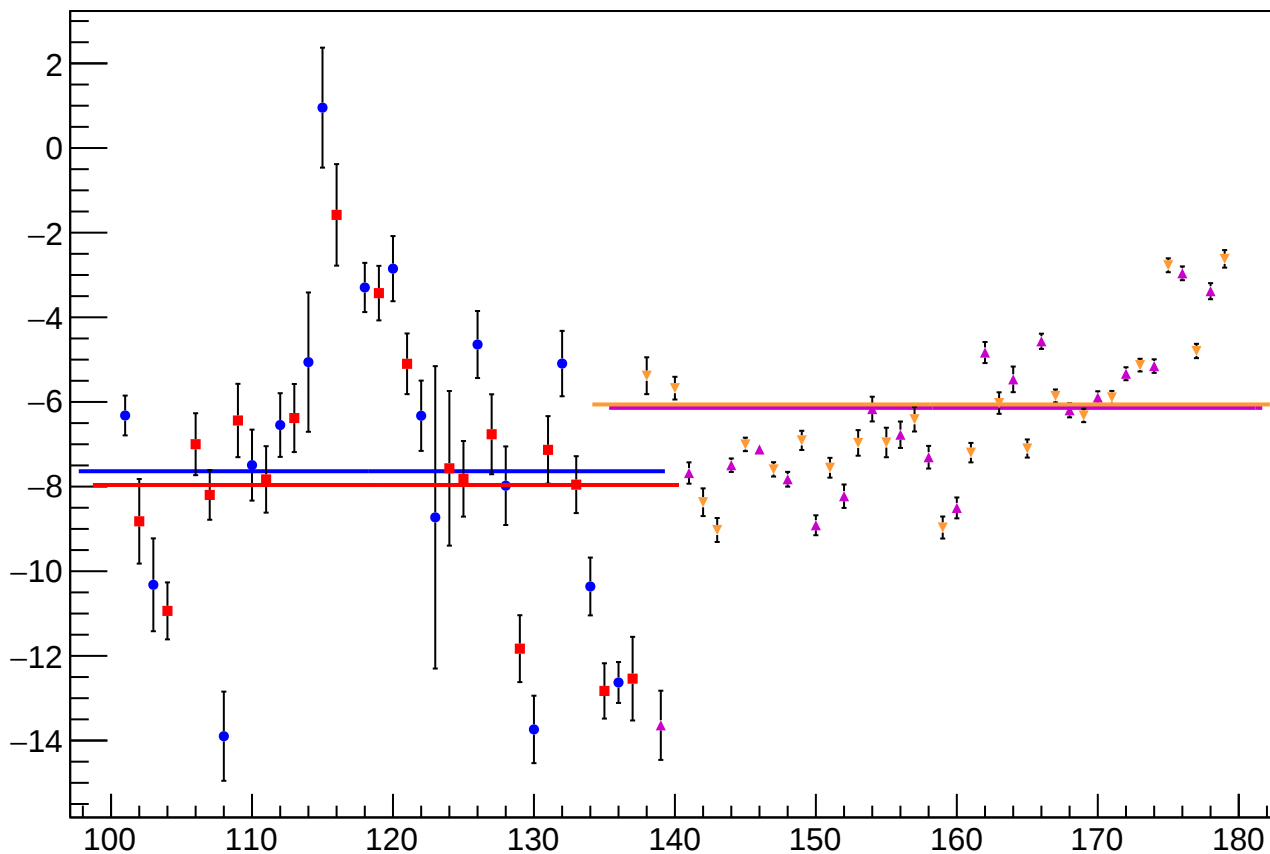
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.637+/-0.057  $\chi^2/\text{NDF}$ : 6615.1/19

Out: -23.581+/-0.057  $\chi^2/\text{NDF}$ : 6359.3/21

All: -23.106+/-0.040  $\chi^2/\text{NDF}$ : 13111.7/41

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.637 \pm 0.186$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-6.059 \pm 0.044$   $\chi^2/\text{NDF}$ : 1300.9/21

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

Left In:  $-6.140 \pm 0.043$   $\chi^2/\text{NDF}$ : 1437.7/19

Left:  $-6.100 \pm 0.031$   $\chi^2/\text{NDF}$ : 2740.3/41

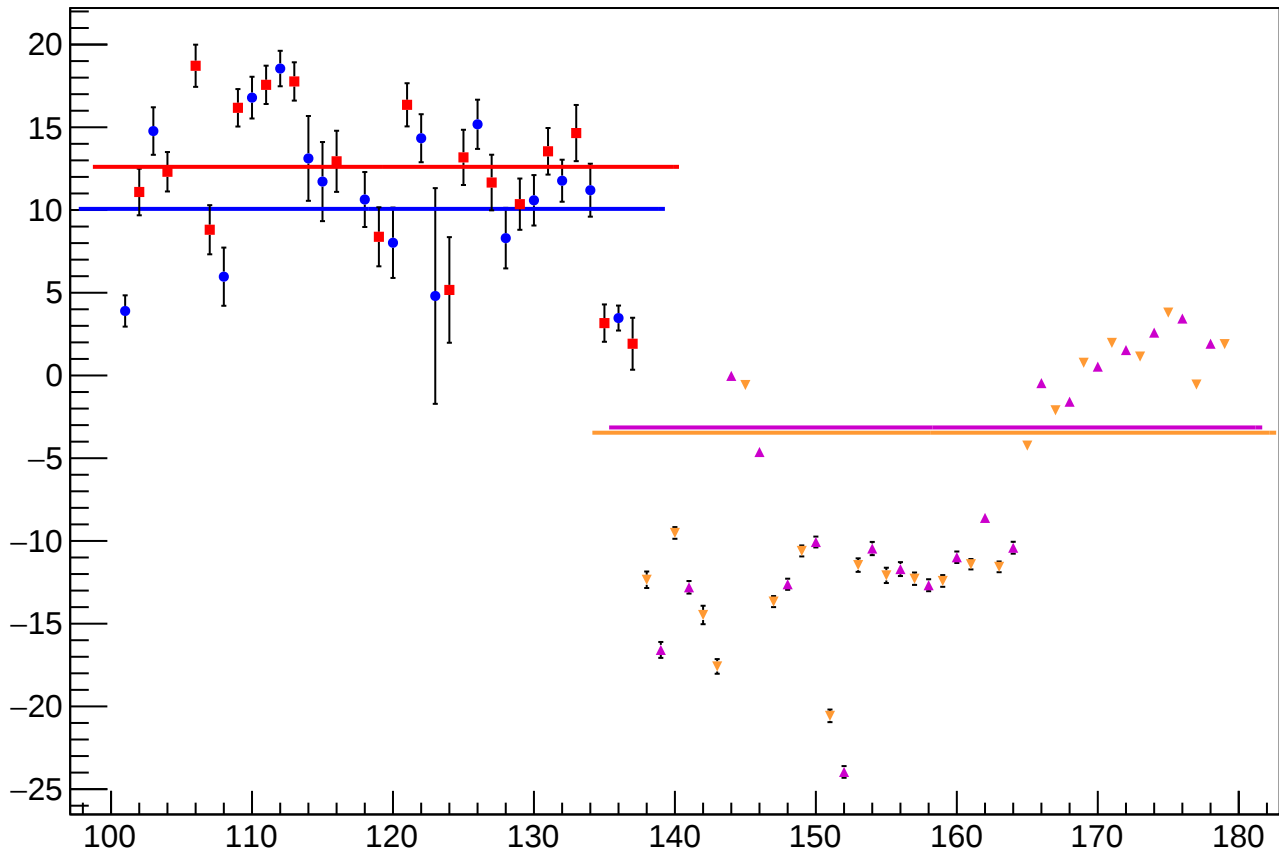
Right:  $-7.800 \pm 0.131$   $\chi^2/\text{NDF}$ : 622.1/34

In:  $-6.217 \pm 0.042$   $\chi^2/\text{NDF}$ : 1893.2/36

Out:  $-6.160 \pm 0.043$   $\chi^2/\text{NDF}$ : 1626.8/39

All:  $-6.189 \pm 0.030$   $\chi^2/\text{NDF}$ : 3520.8/76

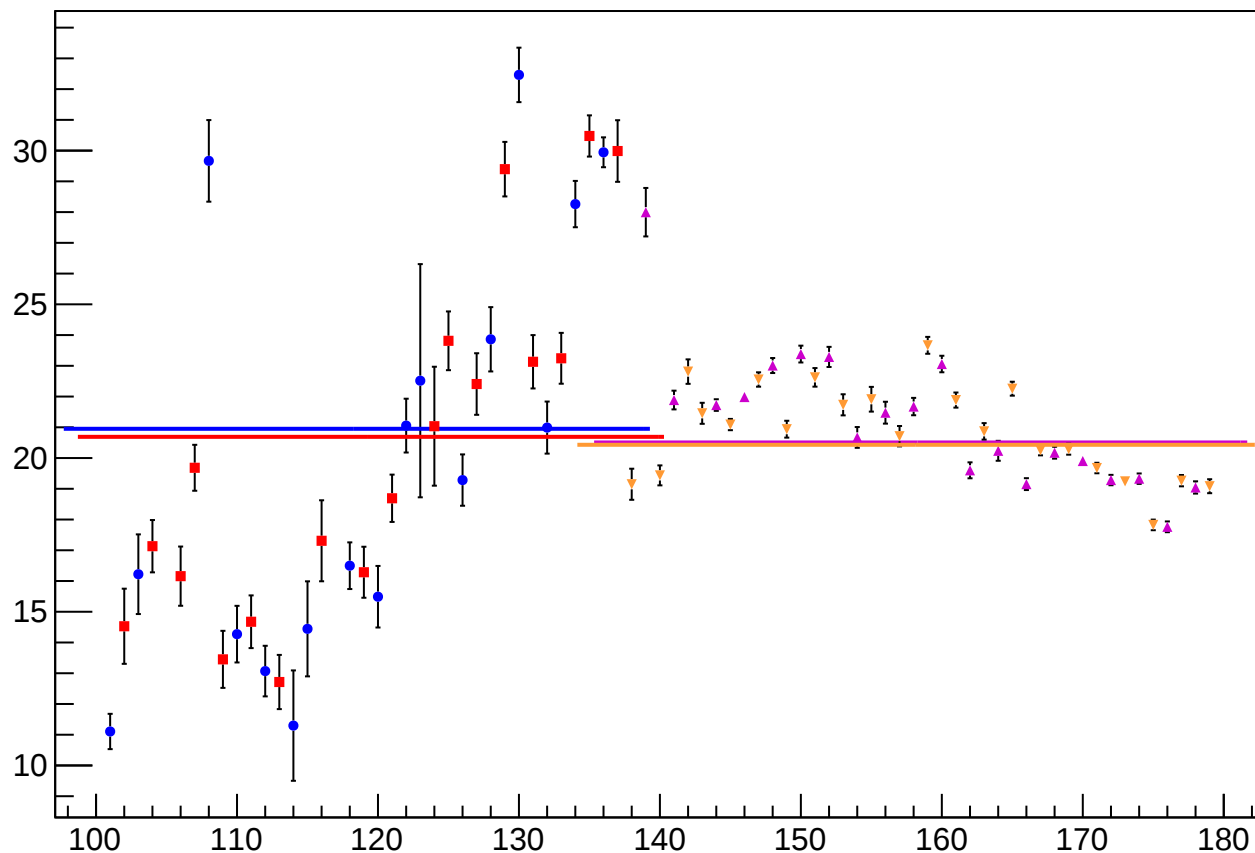
reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 10.068 $\pm$ 0.337  $\chi^2$ /NDF: 253.6/16  
 Left Out: -3.459 $\pm$ 0.057  $\chi^2$ /NDF:13033.3/21  
 Right Out: 12.609 $\pm$ 0.333  $\chi^2$ /NDF: 219.0/17  
 Left In: -3.141 $\pm$ 0.057  $\chi^2$ /NDF:12974.7/19

Left: -3.299 $\pm$ 0.040  $\chi^2$ /NDF: 26023.5/41  
 Right: 11.355 $\pm$ 0.237  $\chi^2$ /NDF: 501.3/34  
 In: -2.778 $\pm$ 0.056  $\chi^2$ /NDF:14718.7/36  
 Out: -2.998 $\pm$ 0.056  $\chi^2$ /NDF:15512.3/39  
 All: -2.887 $\pm$ 0.040  $\chi^2$ /NDF: 30238.7/76

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 20.951 $\pm$ 0.210  $\chi^2$ /NDF: 1222.8/16

Left Out: 20.431 $\pm$ 0.049  $\chi^2$ /NDF:860.1/21

Right Out: 20.690 $\pm$ 0.213  $\chi^2$ /NDF: 726.9/17

Left In: 20.507 $\pm$ 0.049  $\chi^2$ /NDF:1135.4/19

Left: 20.469 $\pm$ 0.035  $\chi^2$ /NDF: 1996.7/41

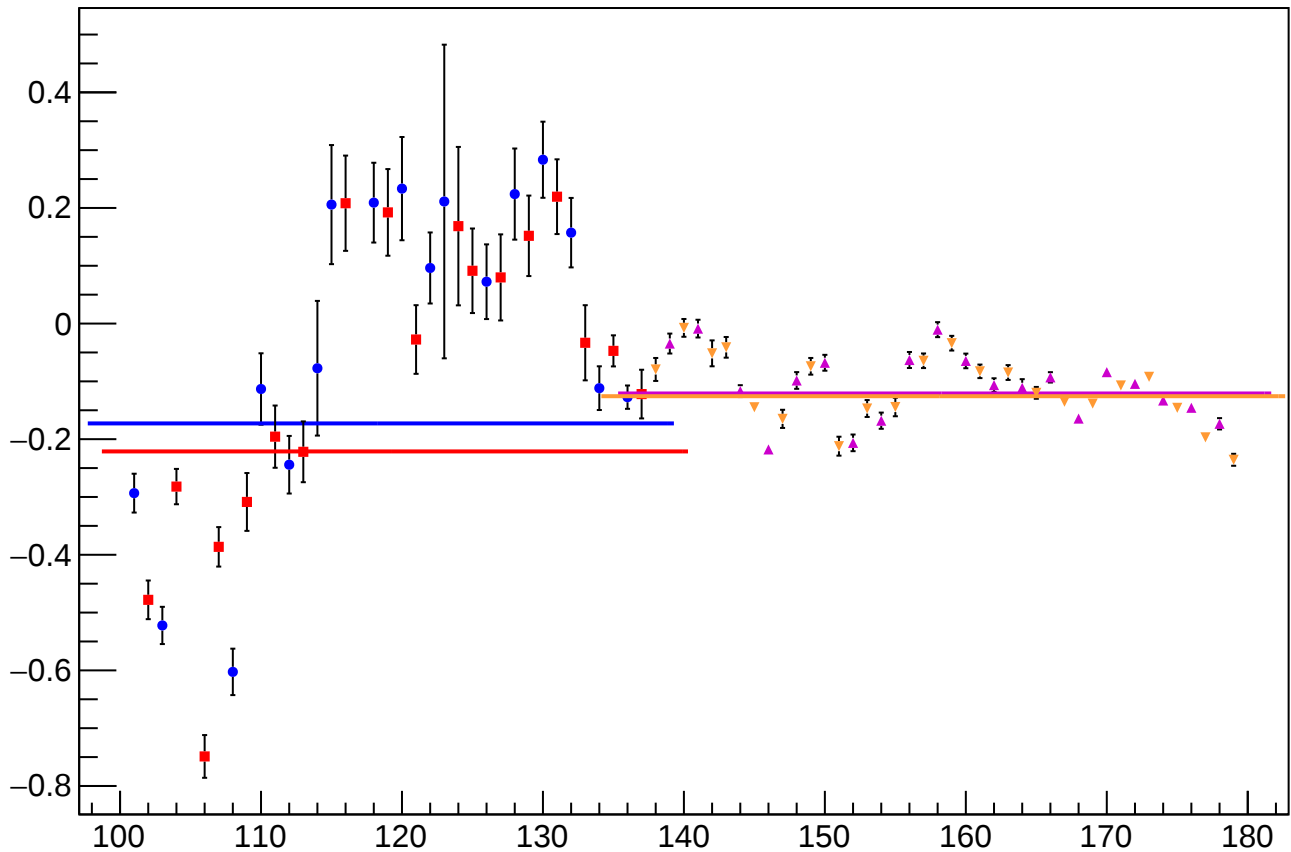
Right: 20.822 $\pm$ 0.149  $\chi^2$ /NDF: 1950.5/34

In: 20.530 $\pm$ 0.048  $\chi^2$ /NDF:2362.4/36

Out: 20.444 $\pm$ 0.048  $\chi^2$ /NDF:1588.4/39

All: 20.487 $\pm$ 0.034  $\chi^2$ /NDF: 3952.4/76

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.173 \pm 0.011$   $\chi^2/\text{NDF}: 460.3/16$

Left Out:  $-0.126 \pm 0.002$   $\chi^2/\text{NDF}: 488.3/21$

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}: 535.1/17$

Left In:  $-0.121 \pm 0.002$   $\chi^2/\text{NDF}: 501.6/19$

Left:  $-0.123 \pm 0.002$   $\chi^2/\text{NDF}: 992.0/41$

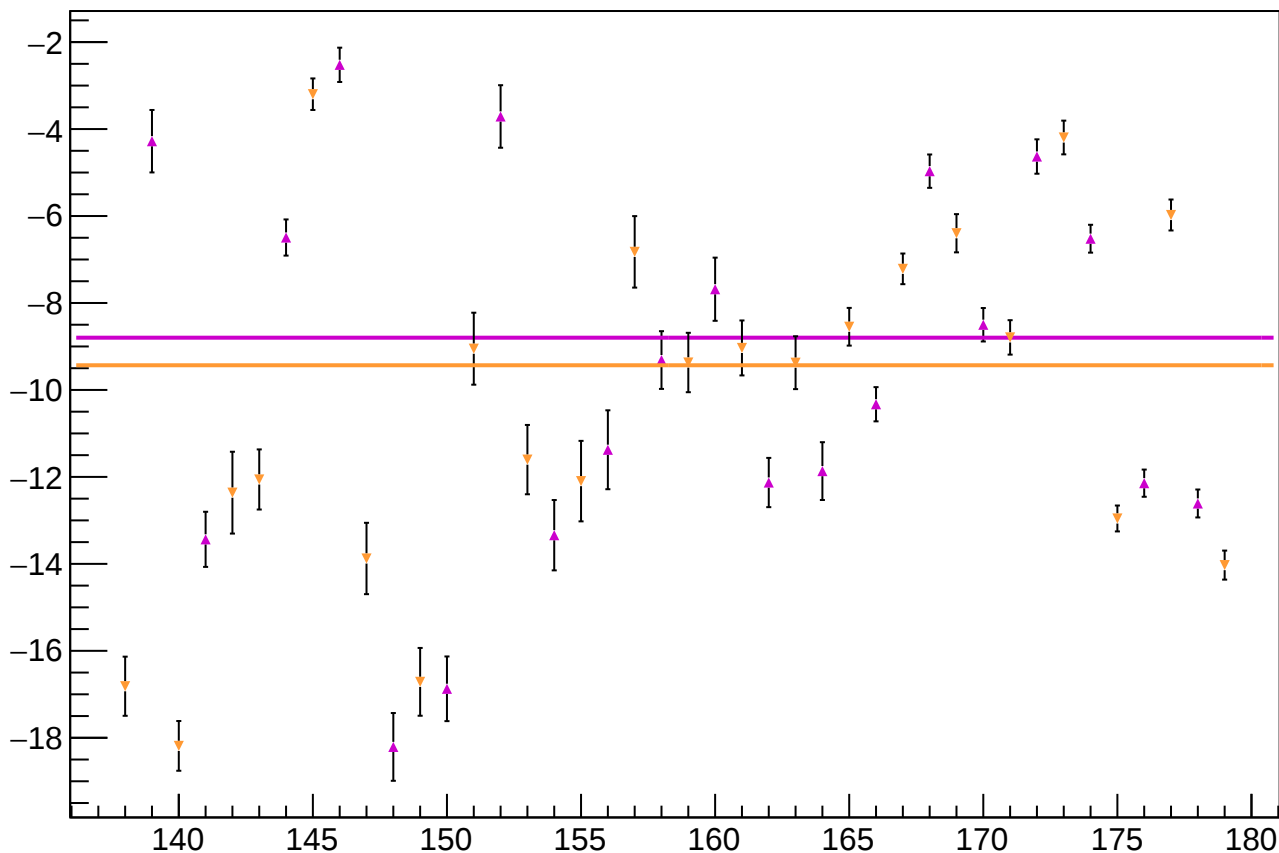
Right:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}: 1005.0/34$

In:  $-0.123 \pm 0.002$   $\chi^2/\text{NDF}: 982.5/36$

Out:  $-0.130 \pm 0.002$   $\chi^2/\text{NDF}: 1096.2/39$

All:  $-0.126 \pm 0.002$   $\chi^2/\text{NDF}: 2083.1/76$

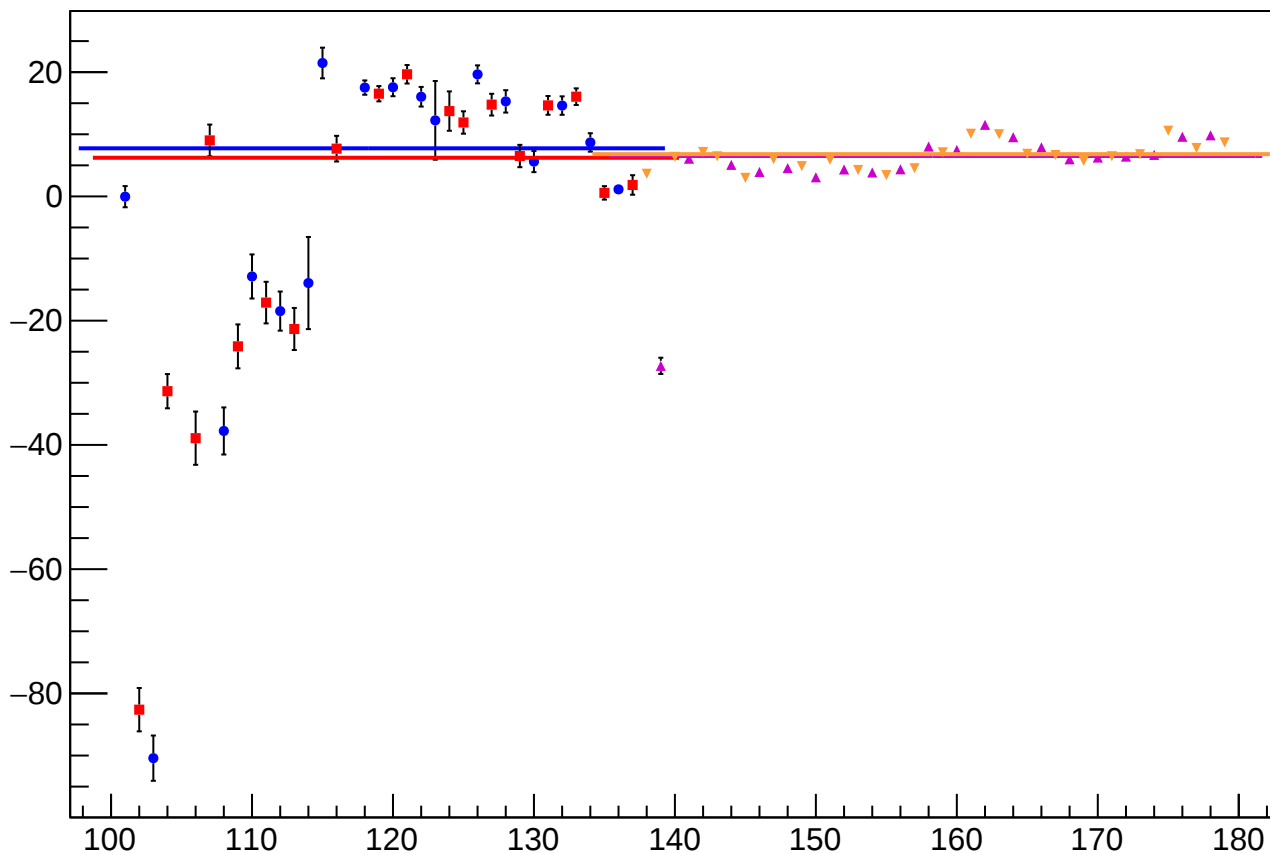
reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.432+/-0.104  $\chi^2/\text{NDF}$ :1514.7/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.798+/-0.105  $\chi^2/\text{NDF}$ :1321.3/19

Left: -9.118+/-0.074  $\chi^2/\text{NDF}$ : 2854.4/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.798+/-0.105  $\chi^2/\text{NDF}$ :1321.3/19  
 Out: -9.432+/-0.104  $\chi^2/\text{NDF}$ :1514.7/21  
 All: -9.118+/-0.074  $\chi^2/\text{NDF}$ : 2854.4/41

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.742 \pm 0.403$   $\chi^2/\text{NDF}$ : 1358.9/16

Left Out:  $6.801 \pm 0.082$   $\chi^2/\text{NDF}$ : 630.4/21

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}$ : 1445.9/17

Left In:  $6.510 \pm 0.082$   $\chi^2/\text{NDF}$ : 1359.1/19

Left:  $6.657 \pm 0.058$   $\chi^2/\text{NDF}$ : 1995.8/41

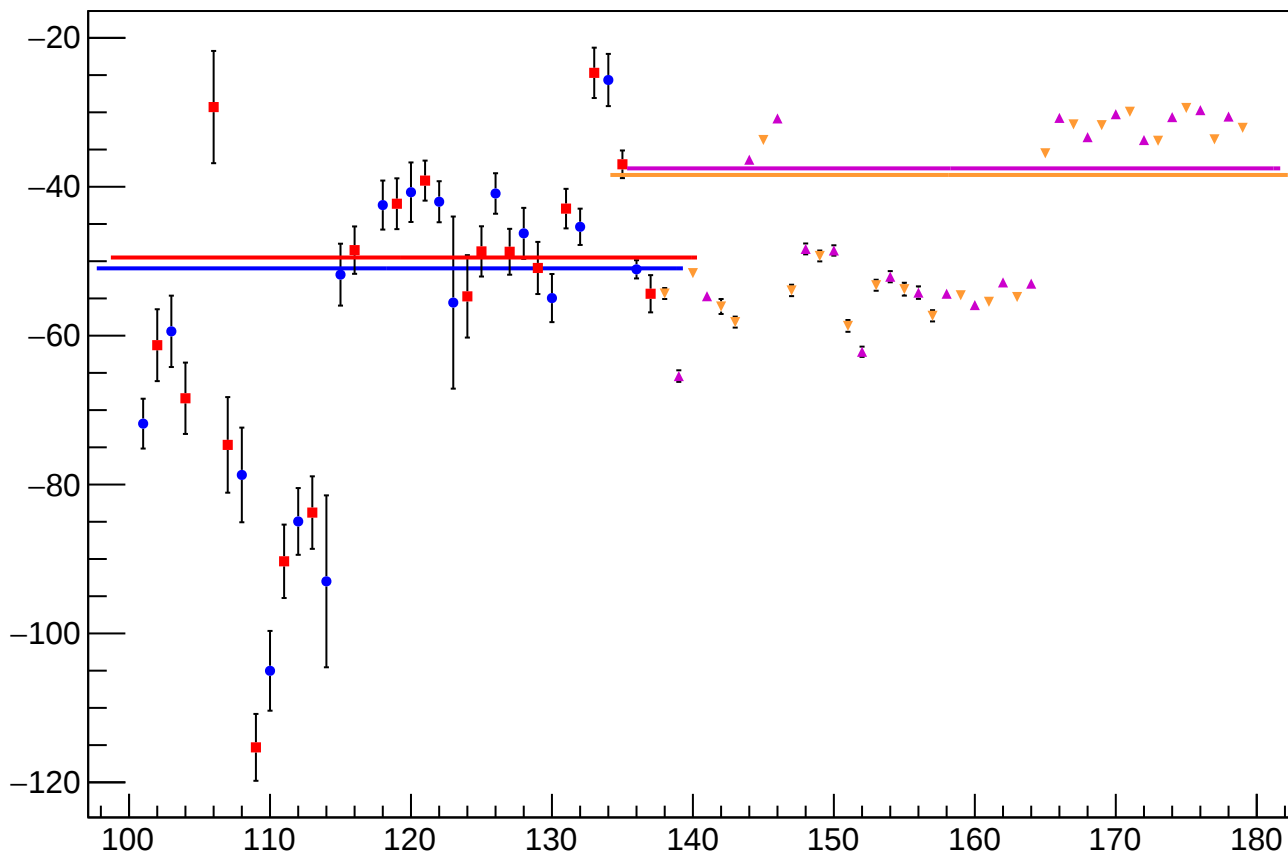
Right:  $7.037 \pm 0.295$   $\chi^2/\text{NDF}$ : 2811.4/34

In:  $6.559 \pm 0.081$   $\chi^2/\text{NDF}$ : 2727.0/36

Out:  $6.781 \pm 0.080$   $\chi^2/\text{NDF}$ : 2078.0/39

All:  $6.671 \pm 0.057$   $\chi^2/\text{NDF}$ : 4808.8/76

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-50.959 \pm 0.738$   $\chi^2/\text{NDF}$ : 331.9/16

Left Out:  $-38.414 \pm 0.105$   $\chi^2/\text{NDF}$ : 9642.6/21

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

Left In:  $-37.530 \pm 0.105$   $\chi^2/\text{NDF}$ : 9993.1/19

Left:  $-37.975 \pm 0.074$   $\chi^2/\text{NDF}$ : 19671.2/41

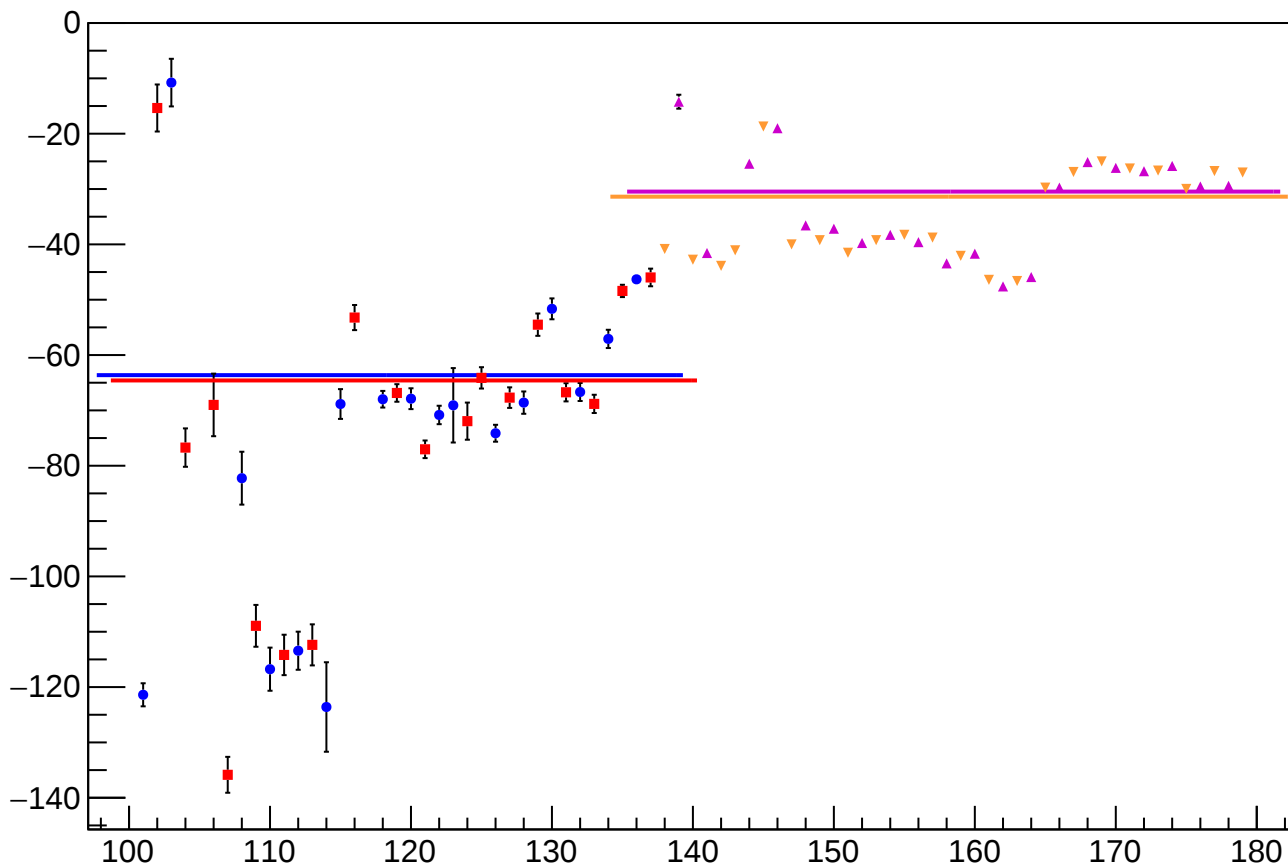
Right:  $-50.287 \pm 0.542$   $\chi^2/\text{NDF}$ : 840.1/34

In:  $-37.798 \pm 0.104$   $\chi^2/\text{NDF}$ : 10649.2/36

Out:  $-38.602 \pm 0.104$   $\chi^2/\text{NDF}$ : 10338.9/39

All:  $-38.202 \pm 0.074$   $\chi^2/\text{NDF}$ : 21017.9/76

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-63.631 \pm 0.446$   $\chi^2/\text{NDF}$ : 2011.2/16

Left Out:  $-31.381 \pm 0.091$   $\chi^2/\text{NDF}$ : 7518.5/21

Right Out:  $-64.590 \pm 0.482$   $\chi^2/\text{NDF}$ : 1594.3/17

Left In:  $-30.463 \pm 0.092$   $\chi^2/\text{NDF}$ : 6906.0/19

Left:  $-30.928 \pm 0.065$   $\chi^2/\text{NDF}$ : 14474.4/41

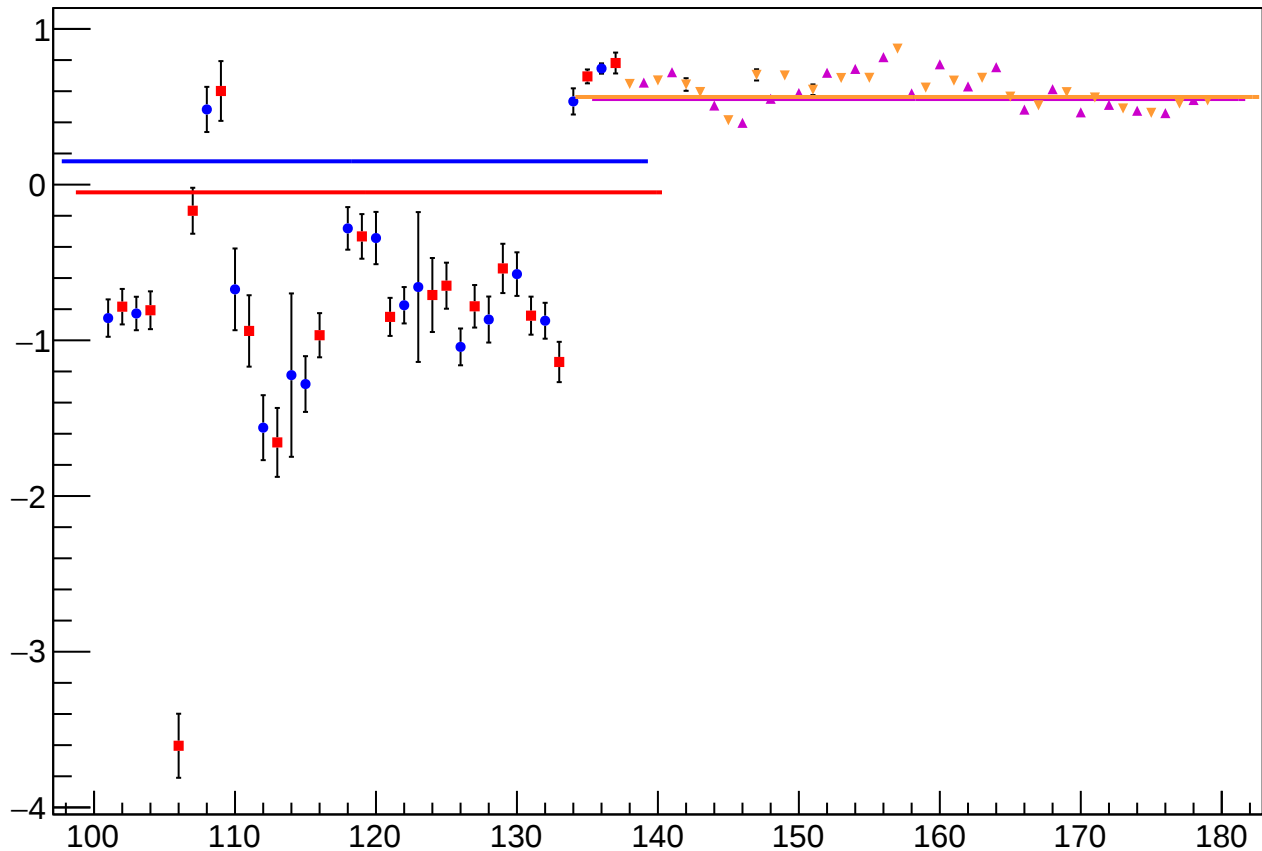
Right:  $-64.073 \pm 0.327$   $\chi^2/\text{NDF}$ : 3607.7/34

In:  $-31.830 \pm 0.091$   $\chi^2/\text{NDF}$ : 14223.5/36

Out:  $-32.530 \pm 0.090$   $\chi^2/\text{NDF}$ : 13692.4/39

All:  $-32.183 \pm 0.064$   $\chi^2/\text{NDF}$ : 27946.1/76

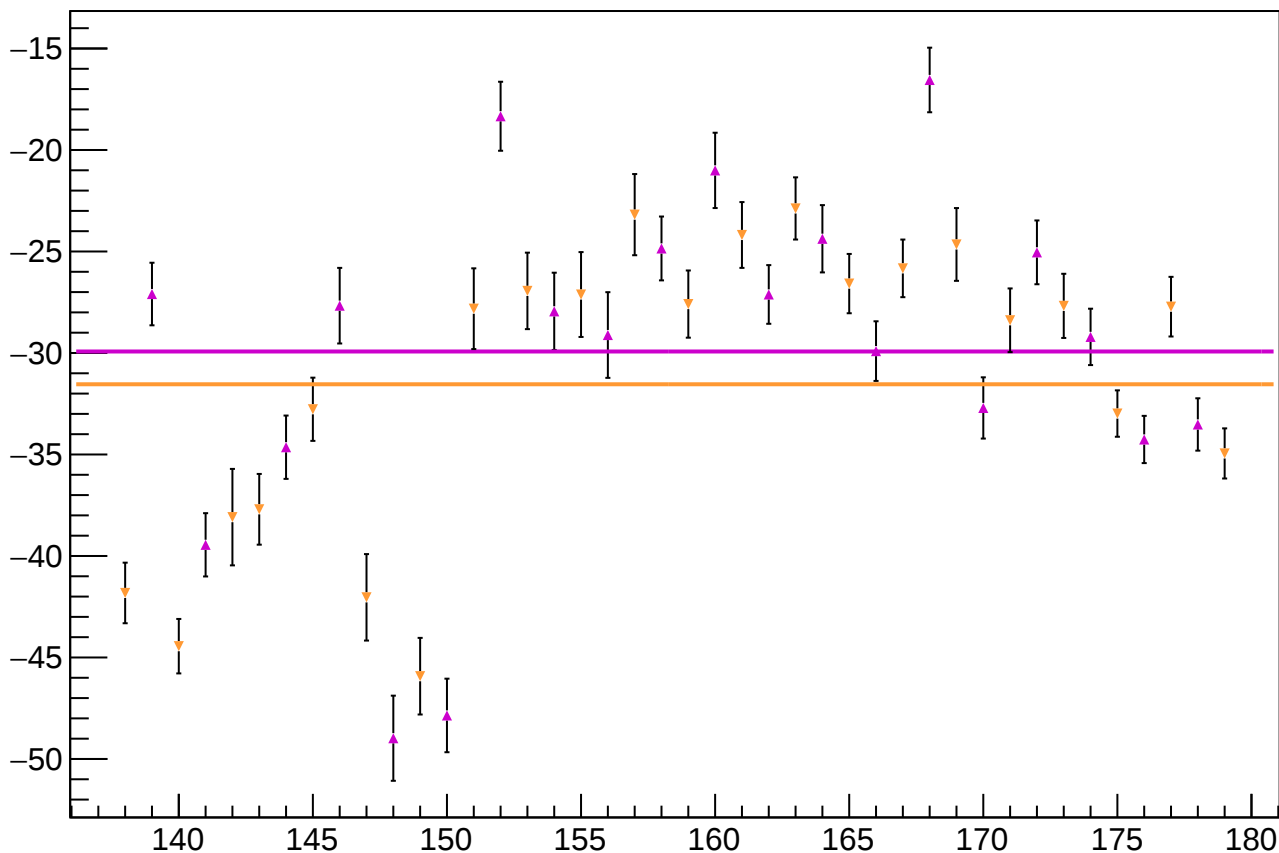
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.150 \pm 0.024$   $\chi^2/\text{NDF}: 989.2/16$   
 Left Out:  $0.563 \pm 0.004$   $\chi^2/\text{NDF}: 509.9/21$   
 Right Out:  $-0.050 \pm 0.026$   $\chi^2/\text{NDF}: 1154.0/17$   
 Left In:  $0.550 \pm 0.004$   $\chi^2/\text{NDF}: 634.1/19$

Left:  $0.556 \pm 0.003$   $\chi^2/\text{NDF}: 1149.0/41$   
 Right:  $0.059 \pm 0.018$   $\chi^2/\text{NDF}: 2174.6/34$   
 In:  $0.538 \pm 0.004$   $\chi^2/\text{NDF}: 1893.0/36$   
 Out:  $0.548 \pm 0.004$   $\chi^2/\text{NDF}: 2195.8/39$   
 All:  $0.543 \pm 0.003$   $\chi^2/\text{NDF}: 4091.8/76$

reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -31.541+/-0.341  $\chi^2/\text{NDF}$ :401.1/21

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

Left In: -29.926+/-0.353  $\chi^2/\text{NDF}$ :433.7/19

Left: -30.761+/-0.246  $\chi^2/\text{NDF}$ : 845.6/41

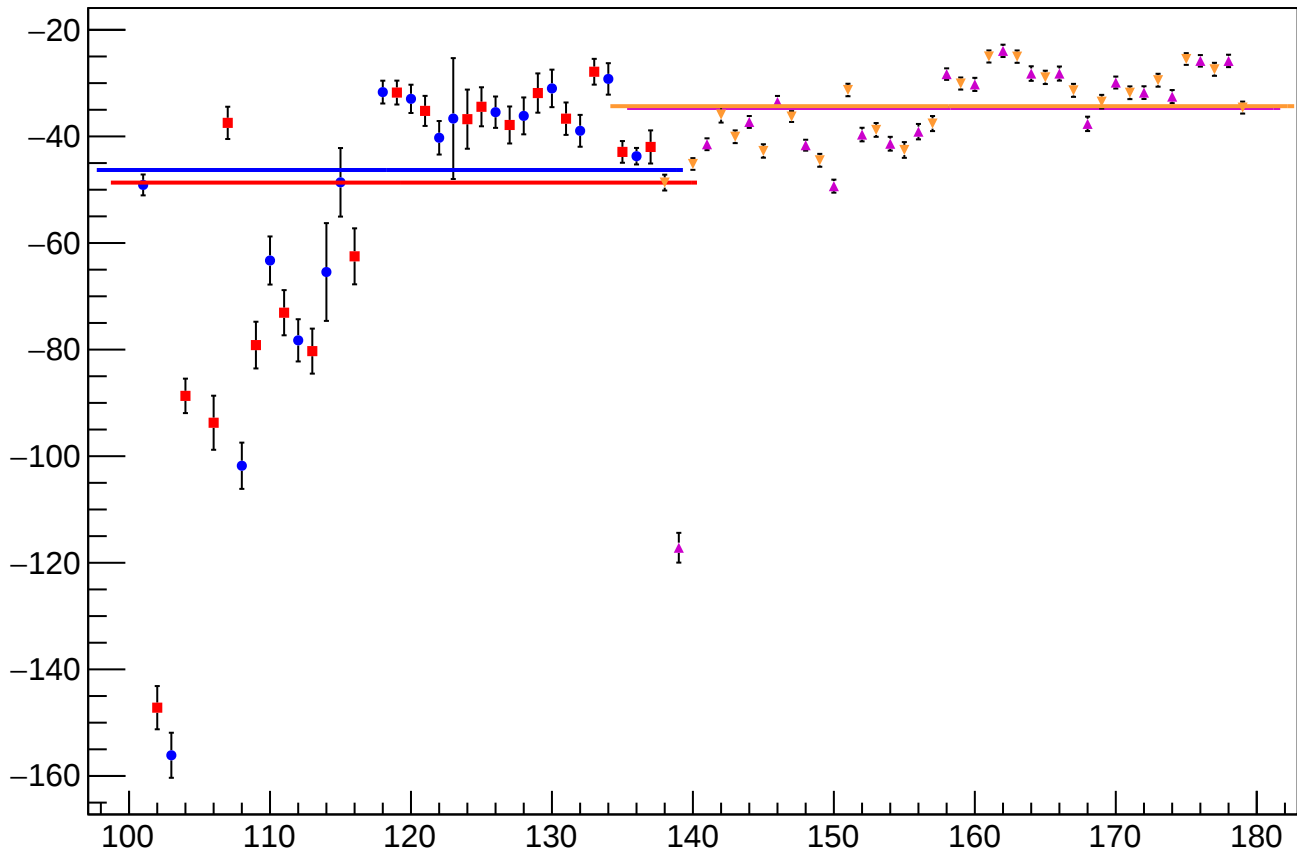
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -29.926+/-0.353  $\chi^2/\text{NDF}$ :433.7/19

Out: -31.541+/-0.341  $\chi^2/\text{NDF}$ :401.1/21

All: -30.761+/-0.246  $\chi^2/\text{NDF}$ : 845.6/41

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-46.301 \pm 0.723$   $\chi^2/\text{NDF}: 1084.0/16$

Left Out:  $-34.326 \pm 0.259$   $\chi^2/\text{NDF}: 675.4/21$

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}: 1212.3/17$

Left In:  $-34.656 \pm 0.272$   $\chi^2/\text{NDF}: 1494.1/19$

Left:  $-34.483 \pm 0.188$   $\chi^2/\text{NDF}: 2170.2/41$

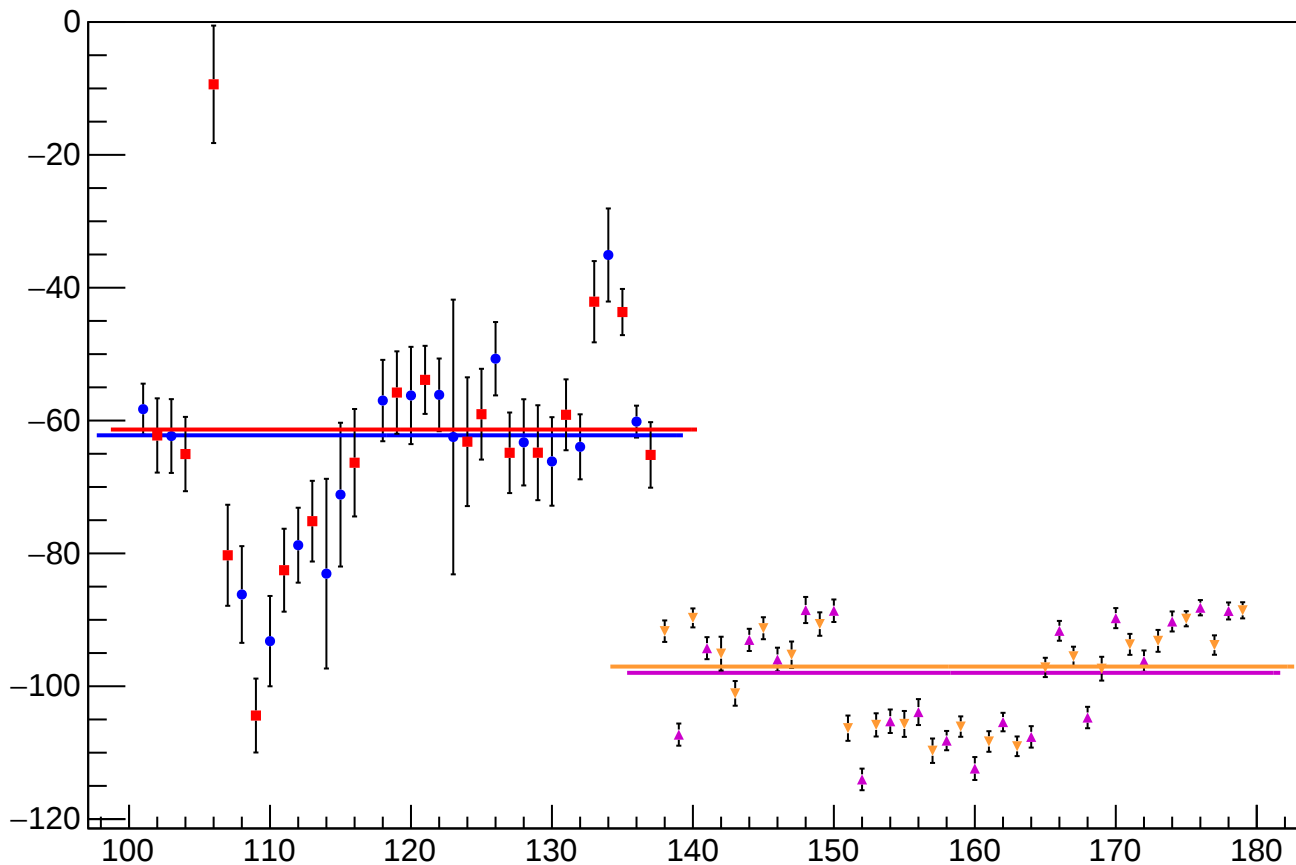
Right:  $-47.420 \pm 0.525$   $\chi^2/\text{NDF}: 2301.3/34$

In:  $-36.102 \pm 0.255$   $\chi^2/\text{NDF}: 2804.9/36$

Out:  $-35.810 \pm 0.246$   $\chi^2/\text{NDF}: 2204.1/39$

All:  $-35.951 \pm 0.177$   $\chi^2/\text{NDF}: 5009.7/76$

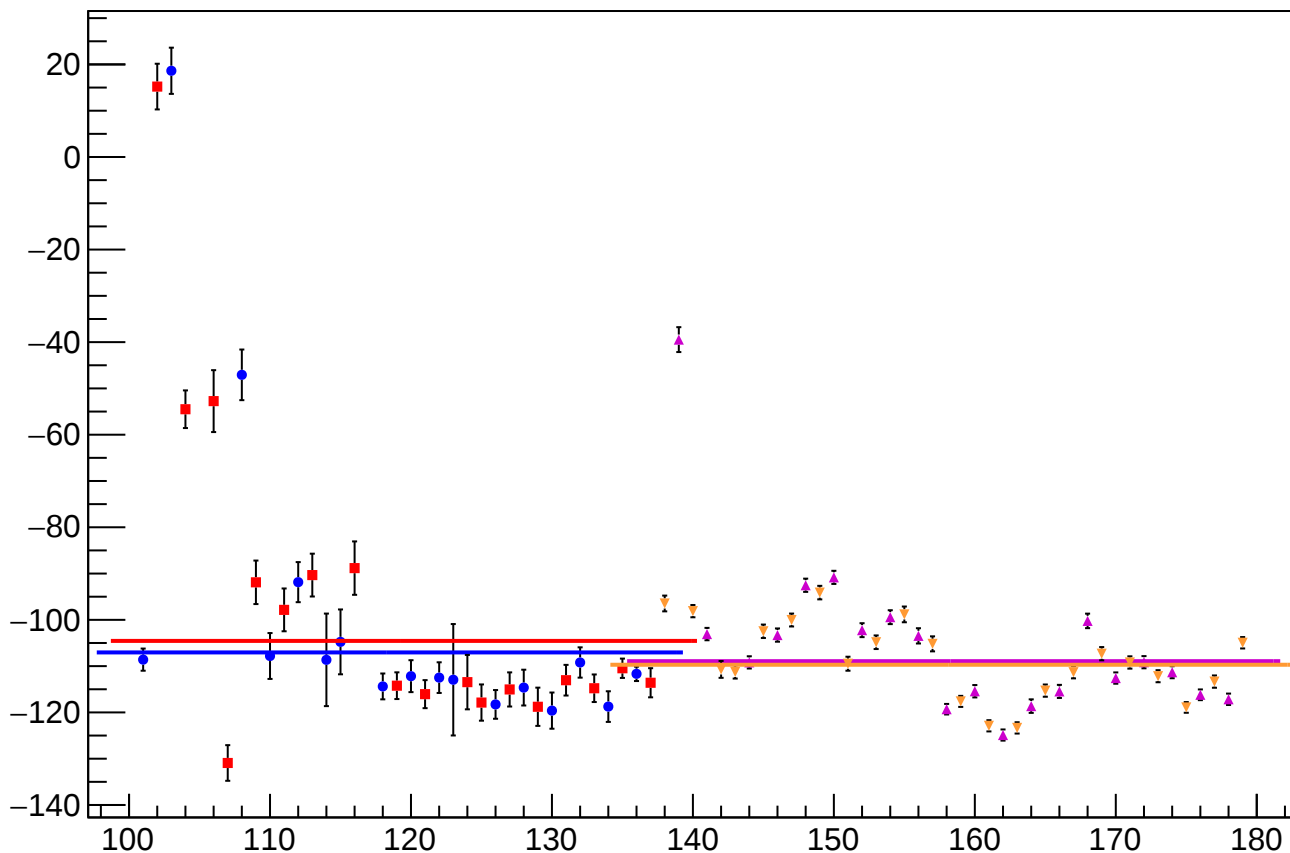
reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.221 \pm 1.312$   $\chi^2/\text{NDF}: 67.3/16$   
 Left Out:  $-97.037 \pm 0.340$   $\chi^2/\text{NDF}: 442.6/21$   
 Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}: 158.4/17$   
 Left In:  $-97.979 \pm 0.351$   $\chi^2/\text{NDF}: 624.4/19$

Left:  $-97.493 \pm 0.244$   $\chi^2/\text{NDF}: 1070.7/41$   
 Right:  $-61.809 \pm 0.952$   $\chi^2/\text{NDF}: 225.9/34$   
 In:  $-95.596 \pm 0.339$   $\chi^2/\text{NDF}: 1385.4/36$   
 Out:  $-95.004 \pm 0.330$   $\chi^2/\text{NDF}: 1229.0/39$   
 All:  $-95.292 \pm 0.236$   $\chi^2/\text{NDF}: 2616.0/76$

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-107.040 \pm 0.812$   $\chi^2/\text{NDF}$ : 827.8/16

Left Out:  $-109.702 \pm 0.294$   $\chi^2/\text{NDF}$ : 782.4/21

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

Left In:  $-108.928 \pm 0.307$   $\chi^2/\text{NDF}$ : 1541.8/19

Left:  $-109.332 \pm 0.212$   $\chi^2/\text{NDF}$ : 2327.6/41

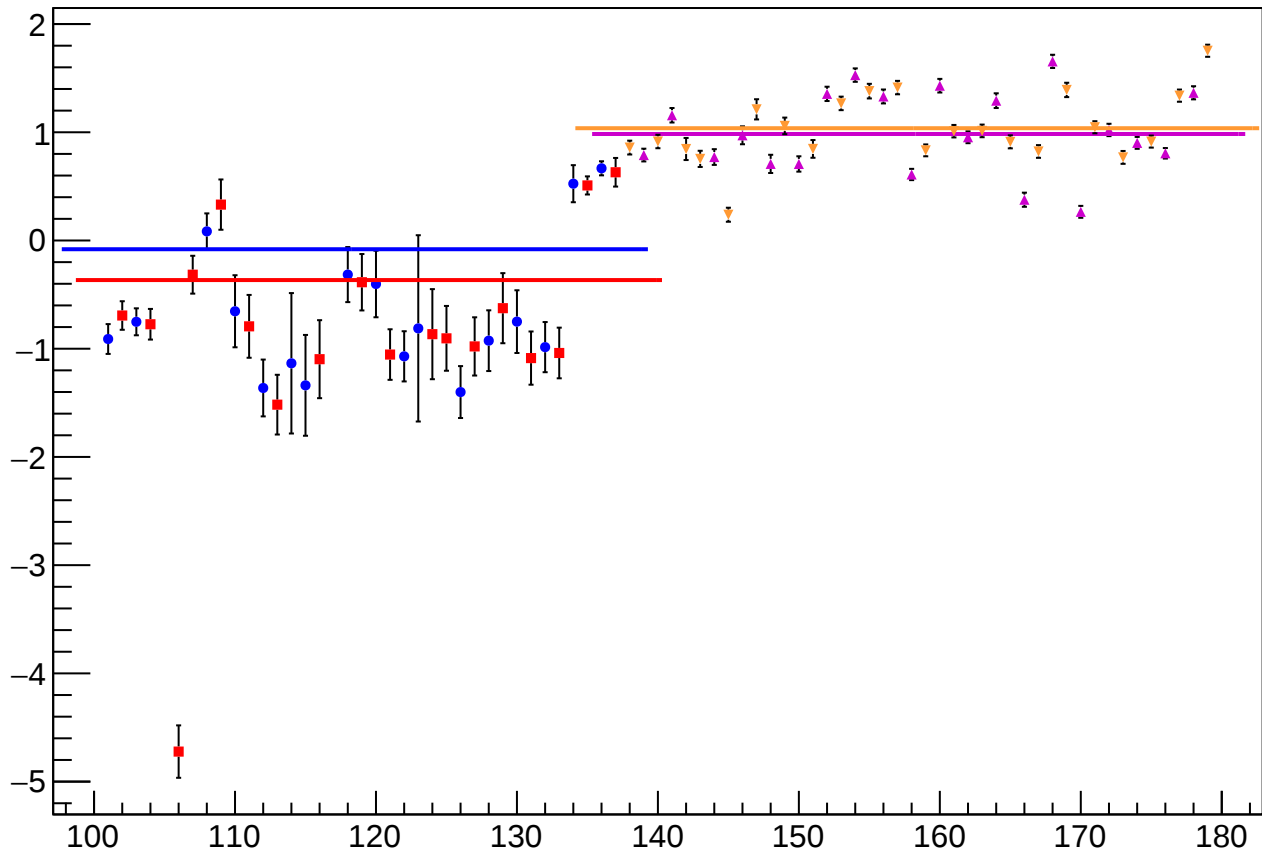
Right:  $-105.867 \pm 0.591$   $\chi^2/\text{NDF}$ : 1799.7/34

In:  $-108.693 \pm 0.287$   $\chi^2/\text{NDF}$ : 2374.4/36

Out:  $-109.164 \pm 0.278$   $\chi^2/\text{NDF}$ : 1782.0/39

All:  $-108.936 \pm 0.200$   $\chi^2/\text{NDF}$ : 4157.8/76

reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.081 \pm 0.042$   $\chi^2/\text{NDF}$ : 328.9/16

Left Out:  $1.037 \pm 0.014$   $\chi^2/\text{NDF}$ : 543.3/21

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

Left In:  $0.984 \pm 0.014$   $\chi^2/\text{NDF}$ : 744.5/19

Left:  $1.011 \pm 0.010$   $\chi^2/\text{NDF}$ : 1295.5/41

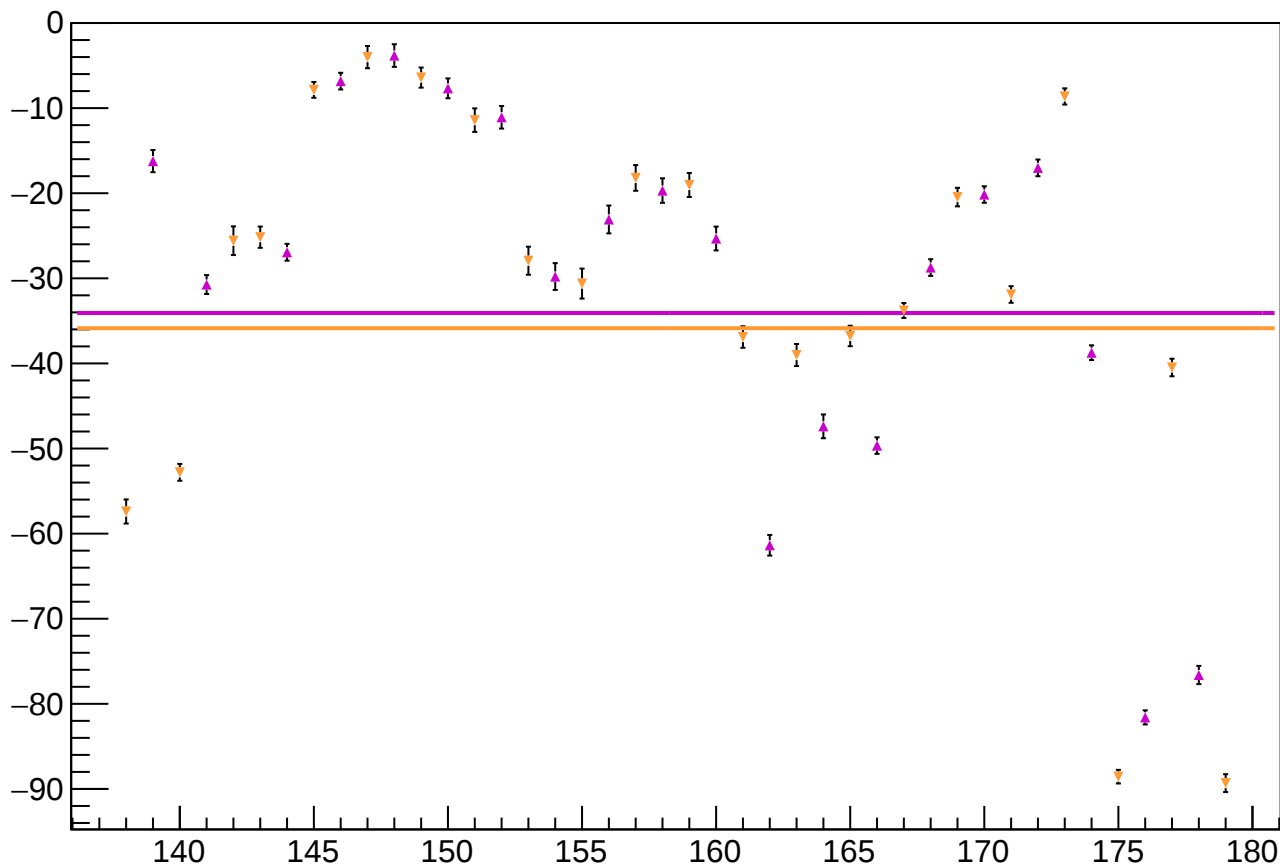
Right:  $-0.217 \pm 0.030$   $\chi^2/\text{NDF}$ : 923.5/34

In:  $0.881 \pm 0.013$   $\chi^2/\text{NDF}$ : 1648.6/36

Out:  $0.916 \pm 0.013$   $\chi^2/\text{NDF}$ : 2045.0/39

All:  $0.899 \pm 0.009$   $\chi^2/\text{NDF}$ : 3697.2/76

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -35.863 $\pm$ 0.244  $\chi^2/\text{NDF}$ :11382.5/21

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

Left In: -34.073 $\pm$ 0.249  $\chi^2/\text{NDF}$ :8808.6/19

Left: -34.984 $\pm$ 0.174  $\chi^2/\text{NDF}$ : 20217.5/41

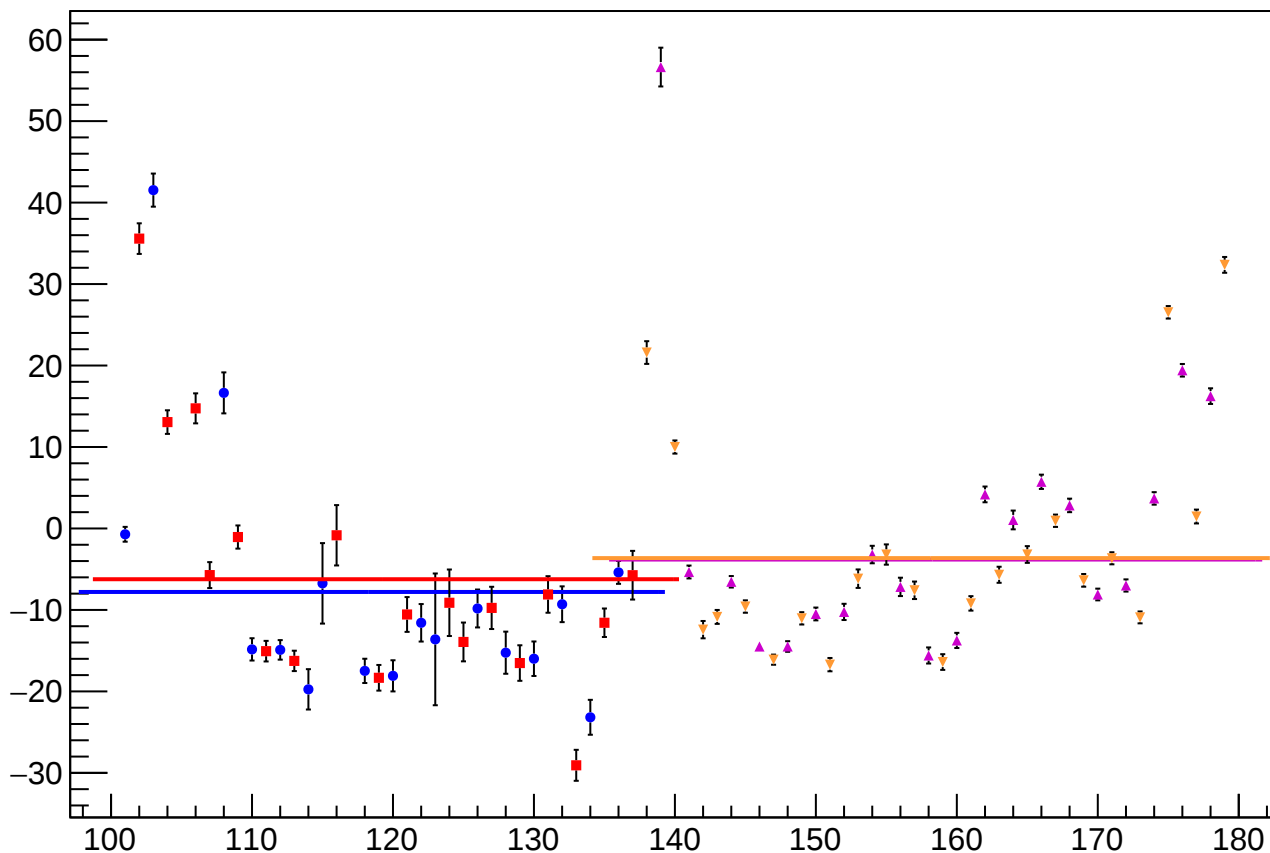
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.073 $\pm$ 0.249  $\chi^2/\text{NDF}$ :8808.6/19

Out: -35.863 $\pm$ 0.244  $\chi^2/\text{NDF}$ :11382.5/21

All: -34.984 $\pm$ 0.174  $\chi^2/\text{NDF}$ : 20217.5/41

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.794 \pm 0.428$   $\chi^2/\text{NDF}$ : 982.7/16

Left Out:  $-3.639 \pm 0.184$   $\chi^2/\text{NDF}$ : 4901.6/21

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

Left In:  $-3.815 \pm 0.189$   $\chi^2/\text{NDF}$ : 3370.4/19

Left:  $-3.725 \pm 0.132$   $\chi^2/\text{NDF}$ : 8272.5/41

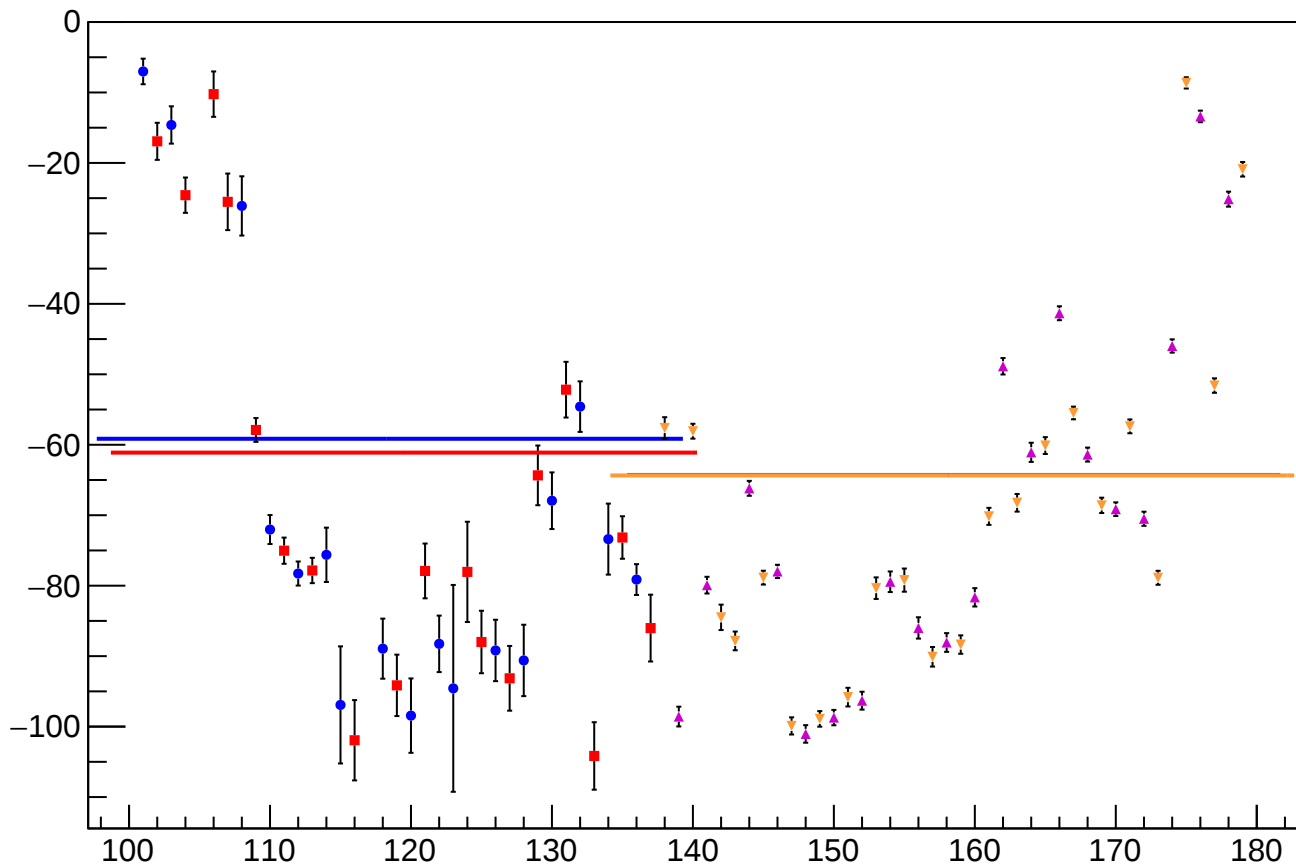
Right:  $-7.016 \pm 0.303$   $\chi^2/\text{NDF}$ : 2172.3/34

In:  $-4.465 \pm 0.173$   $\chi^2/\text{NDF}$ : 4425.5/36

Out:  $-4.039 \pm 0.169$   $\chi^2/\text{NDF}$ : 6115.4/39

All:  $-4.247 \pm 0.121$   $\chi^2/\text{NDF}$ : 10543.9/76

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-59.150 \pm 0.745$   $\chi^2/\text{NDF}$ : 1718.3/16

Left Out:  $-64.357 \pm 0.244$   $\chi^2/\text{NDF}$ : 11162.7/21

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

Left In:  $-64.285 \pm 0.248$   $\chi^2/\text{NDF}$ : 10642.1/19

Left:  $-64.322 \pm 0.174$   $\chi^2/\text{NDF}$ : 21804.8/41

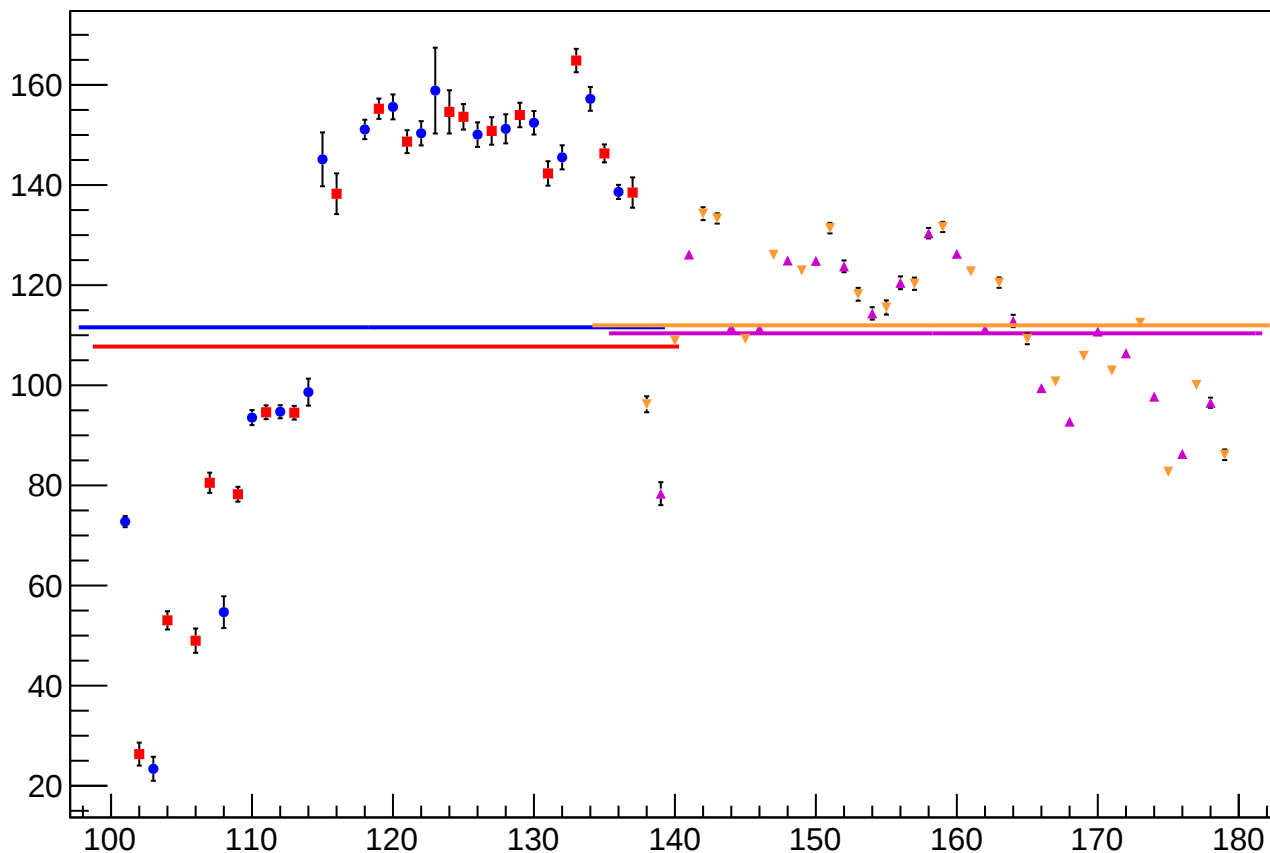
Right:  $-60.182 \pm 0.513$   $\chi^2/\text{NDF}$ : 3039.8/34

In:  $-63.773 \pm 0.235$   $\chi^2/\text{NDF}$ : 12403.2/36

Out:  $-64.012 \pm 0.231$   $\chi^2/\text{NDF}$ : 12499.2/39

All:  $-63.895 \pm 0.165$   $\chi^2/\text{NDF}$ : 24902.9/76

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $111.580 \pm 0.487$   $\chi^2/\text{NDF}$ : 5946.0/16

Left Out:  $111.977 \pm 0.209$   $\chi^2/\text{NDF}$ : 4678.6/21

Right Out:  $107.735 \pm 0.489$   $\chi^2/\text{NDF}$ : 6836.2/17

Left In:  $110.380 \pm 0.215$   $\chi^2/\text{NDF}$ : 3569.0/19

Left:  $111.200 \pm 0.150$   $\chi^2/\text{NDF}$ : 8275.9/41

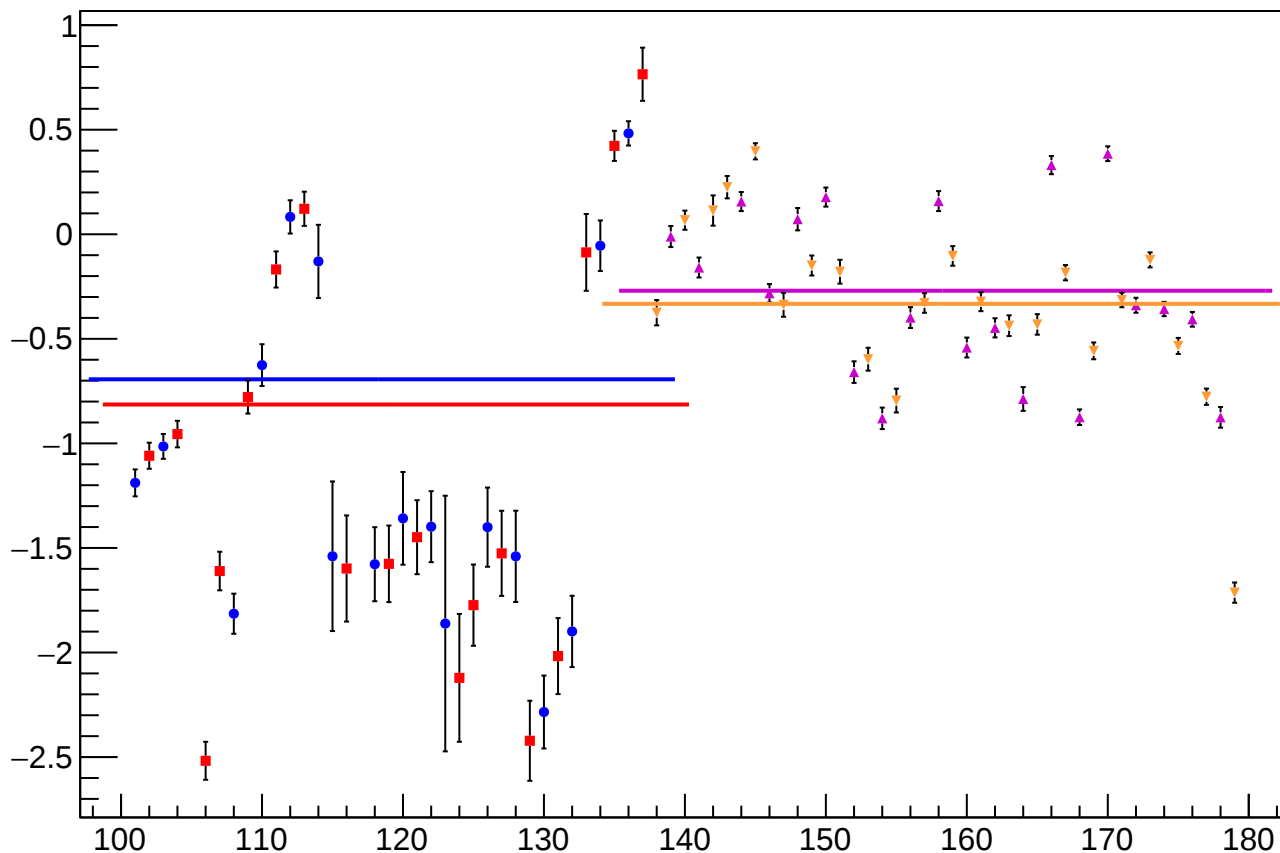
Right:  $109.661 \pm 0.345$   $\chi^2/\text{NDF}$ : 12813.2/34

In:  $110.575 \pm 0.197$   $\chi^2/\text{NDF}$ : 9520.0/36

Out:  $111.319 \pm 0.192$   $\chi^2/\text{NDF}$ : 11578.5/39

All:  $110.955 \pm 0.138$   $\chi^2/\text{NDF}$ : 21105.8/76

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.694 \pm 0.026$   $\chi^2/\text{NDF}$ : 990.7/16

Left Out:  $-0.333 \pm 0.010$   $\chi^2/\text{NDF}$ : 1779.5/21

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

Left In:  $-0.270 \pm 0.010$   $\chi^2/\text{NDF}$ : 1642.7/19

Left:  $-0.302 \pm 0.007$   $\chi^2/\text{NDF}$ : 3442.8/41

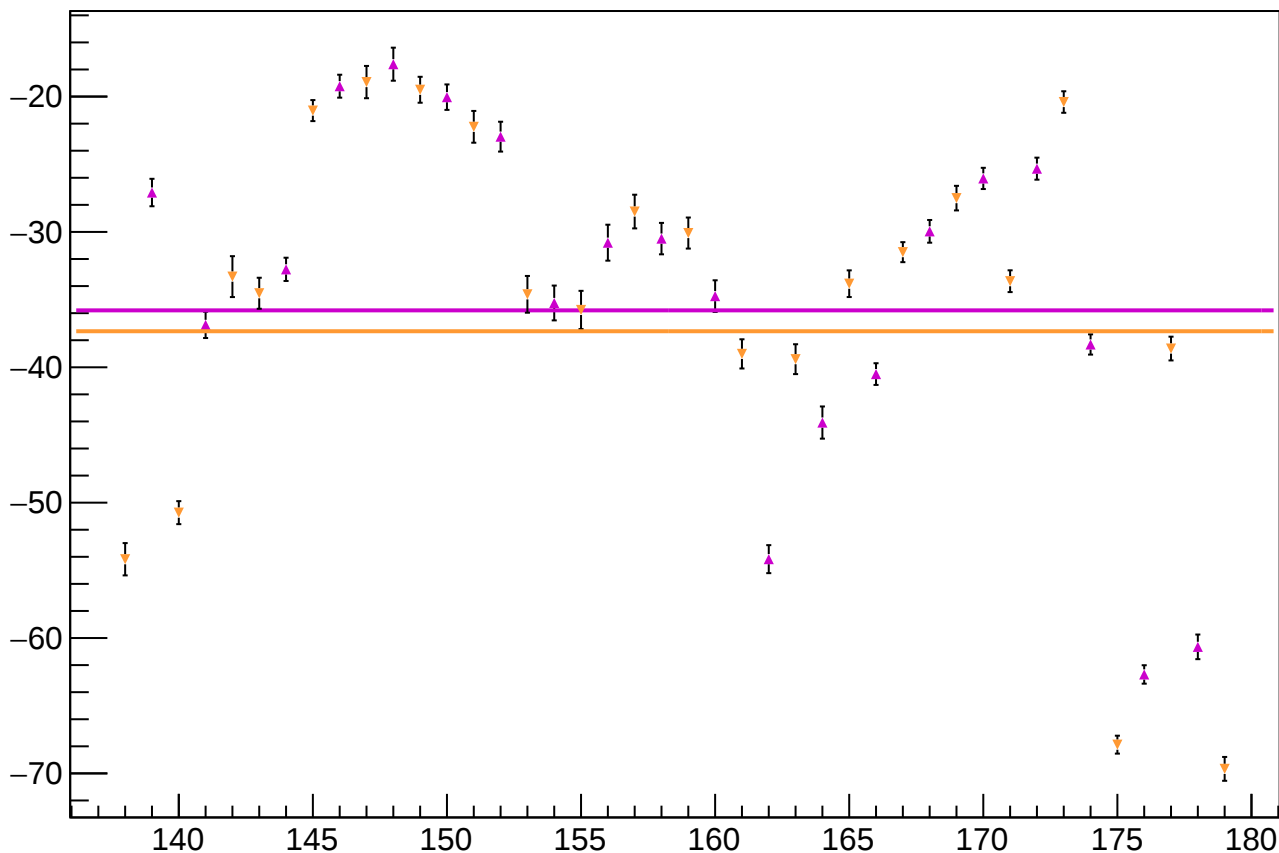
Right:  $-0.757 \pm 0.018$   $\chi^2/\text{NDF}$ : 2310.9/34

In:  $-0.324 \pm 0.009$   $\chi^2/\text{NDF}$ : 2868.7/36

Out:  $-0.398 \pm 0.009$   $\chi^2/\text{NDF}$ : 3422.4/39

All:  $-0.361 \pm 0.006$   $\chi^2/\text{NDF}$ : 6324.5/76

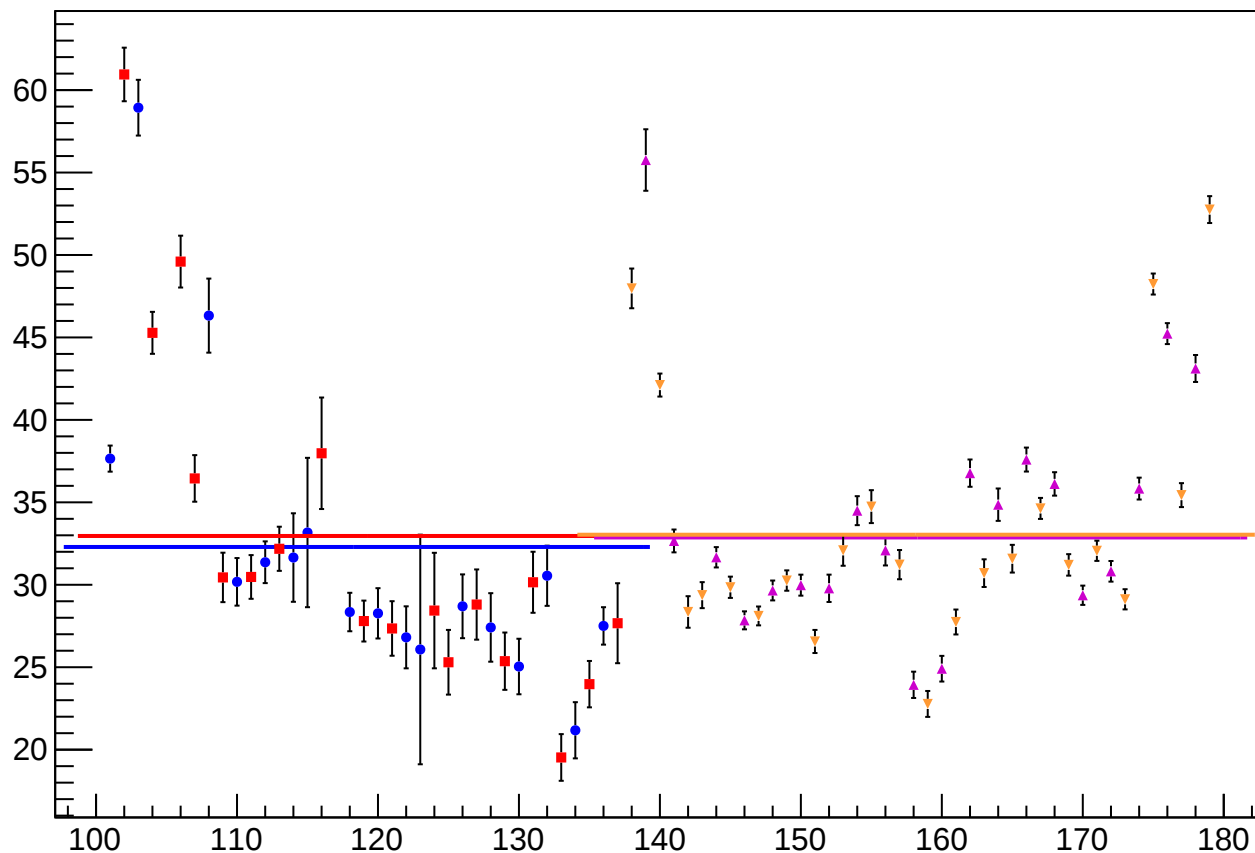
reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -37.336+/-0.206  $\chi^2/\text{NDF}$ :5894.9/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -35.794+/-0.209  $\chi^2/\text{NDF}$ :4228.5/19

Left: -36.577+/-0.146  $\chi^2/\text{NDF}$ : 10151.1/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -35.794+/-0.209  $\chi^2/\text{NDF}$ :4228.5/19  
 Out: -37.336+/-0.206  $\chi^2/\text{NDF}$ :5894.9/21  
 All: -36.577+/-0.146  $\chi^2/\text{NDF}$ : 10151.1/41

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 32.293 $\pm$ 0.373  $\chi^2$ /NDF: 452.5/16

Left Out: 33.036 $\pm$ 0.156  $\chi^2$ /NDF: 2033.6/21

Right Out: 32.960 $\pm$ 0.380  $\chi^2$ /NDF: 724.0/17

Left In: 32.869 $\pm$ 0.160  $\chi^2$ /NDF: 1228.4/19

Left: 32.955 $\pm$ 0.112  $\chi^2$ /NDF: 3262.6/41

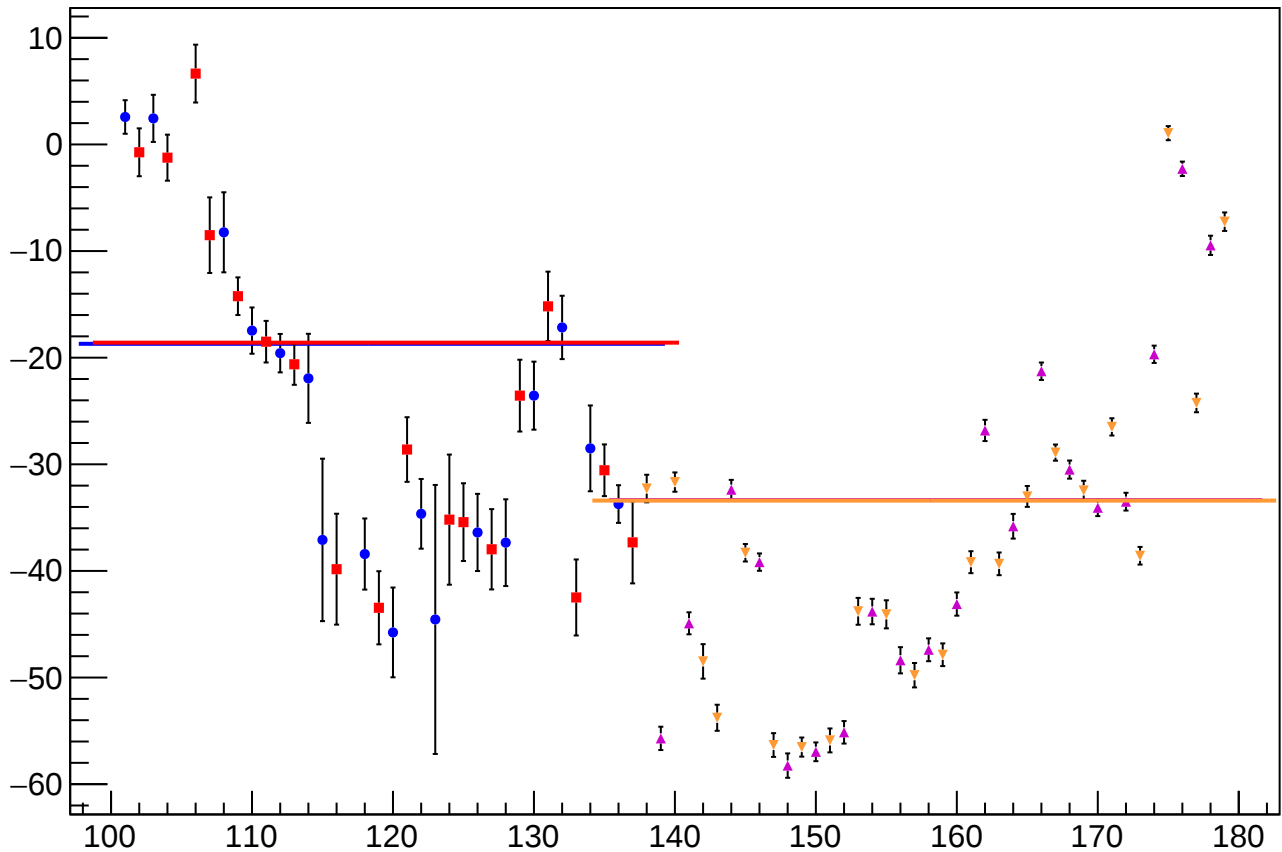
Right: 32.620 $\pm$ 0.266  $\chi^2$ /NDF: 1178.1/34

In: 32.779 $\pm$ 0.147  $\chi^2$ /NDF: 1683.0/36

Out: 33.025 $\pm$ 0.144  $\chi^2$ /NDF: 2757.7/39

All: 32.905 $\pm$ 0.103  $\chi^2$ /NDF: 4442.1/76

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-18.699 \pm 0.667$   $\chi^2/\text{NDF}: 519.1/16$

Left Out:  $-33.402 \pm 0.205$   $\chi^2/\text{NDF}: 6358.1/21$

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}: 461.3/17$

Left In:  $-33.356 \pm 0.208$   $\chi^2/\text{NDF}: 6080.4/19$

Left:  $-33.380 \pm 0.146$   $\chi^2/\text{NDF}: 12438.5/41$

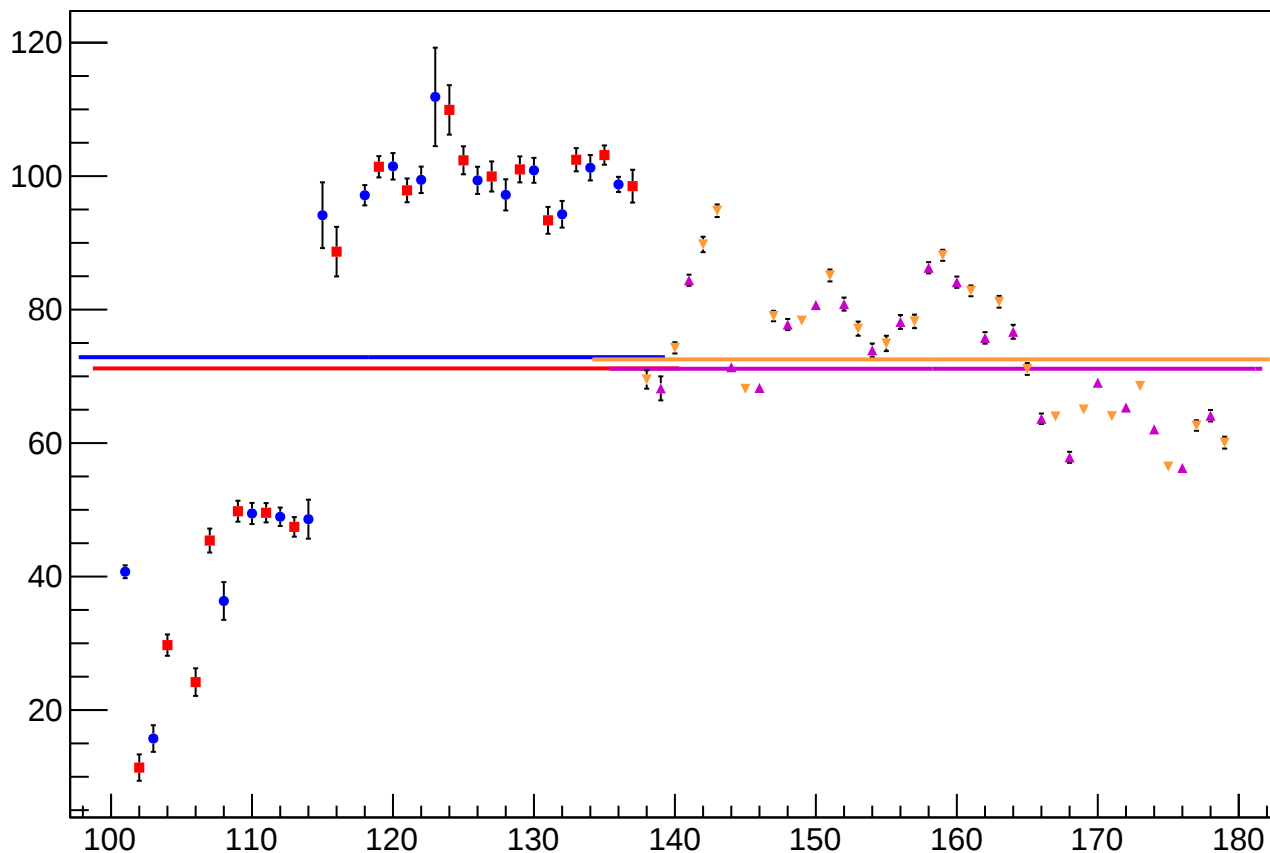
Right:  $-18.643 \pm 0.464$   $\chi^2/\text{NDF}: 980.4/34$

In:  $-32.057 \pm 0.198$   $\chi^2/\text{NDF}: 7040.2/36$

Out:  $-32.052 \pm 0.195$   $\chi^2/\text{NDF}: 7294.9/39$

All:  $-32.055 \pm 0.139$   $\chi^2/\text{NDF}: 14335.1/76$

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.870 $\pm$ 0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 72.541 $\pm$ 0.177  $\chi^2$ /NDF:3196.1/21

Right Out: 71.190 $\pm$ 0.434  $\chi^2$ /NDF: 5375.1/17

Left In: 71.140 $\pm$ 0.181  $\chi^2$ /NDF:2416.8/19

Left: 71.858 $\pm$ 0.127  $\chi^2$ /NDF: 5643.5/41

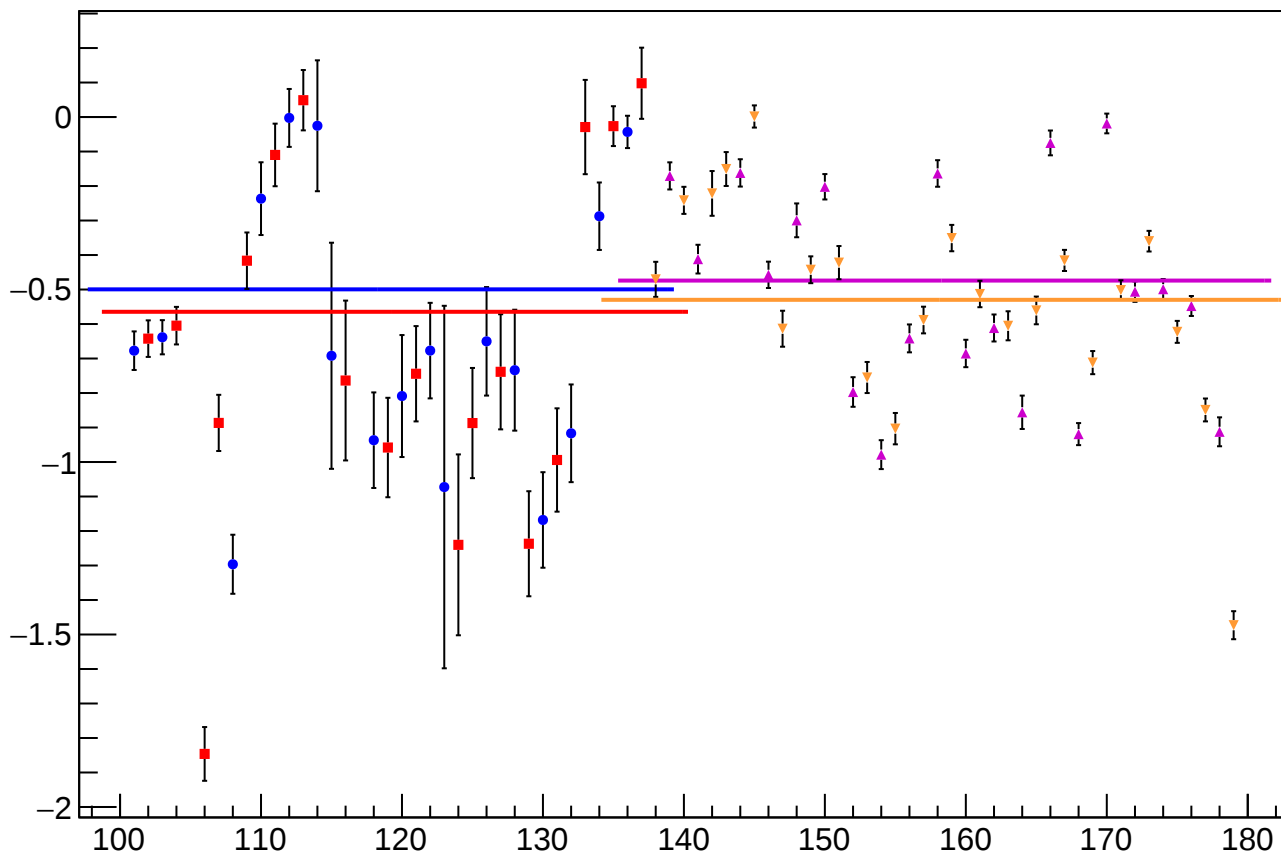
Right: 72.045 $\pm$ 0.304  $\chi^2$ /NDF: 10109.9/34

In: 71.405 $\pm$ 0.167  $\chi^2$ /NDF:7157.9/36

Out: 72.348 $\pm$ 0.164  $\chi^2$ /NDF:8579.5/39

All: 71.886 $\pm$ 0.117  $\chi^2$ /NDF: 15753.7/76

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.500 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 302.6/16

Left Out: -0.530 $\pm$ 0.008  $\chi^2/\text{NDF}$ :1261.0/21

Right Out: -0.565 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 559.4/17

Left In: -0.474 $\pm$ 0.008  $\chi^2/\text{NDF}$ :1266.6/19

Left: -0.502 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 2550.9/41

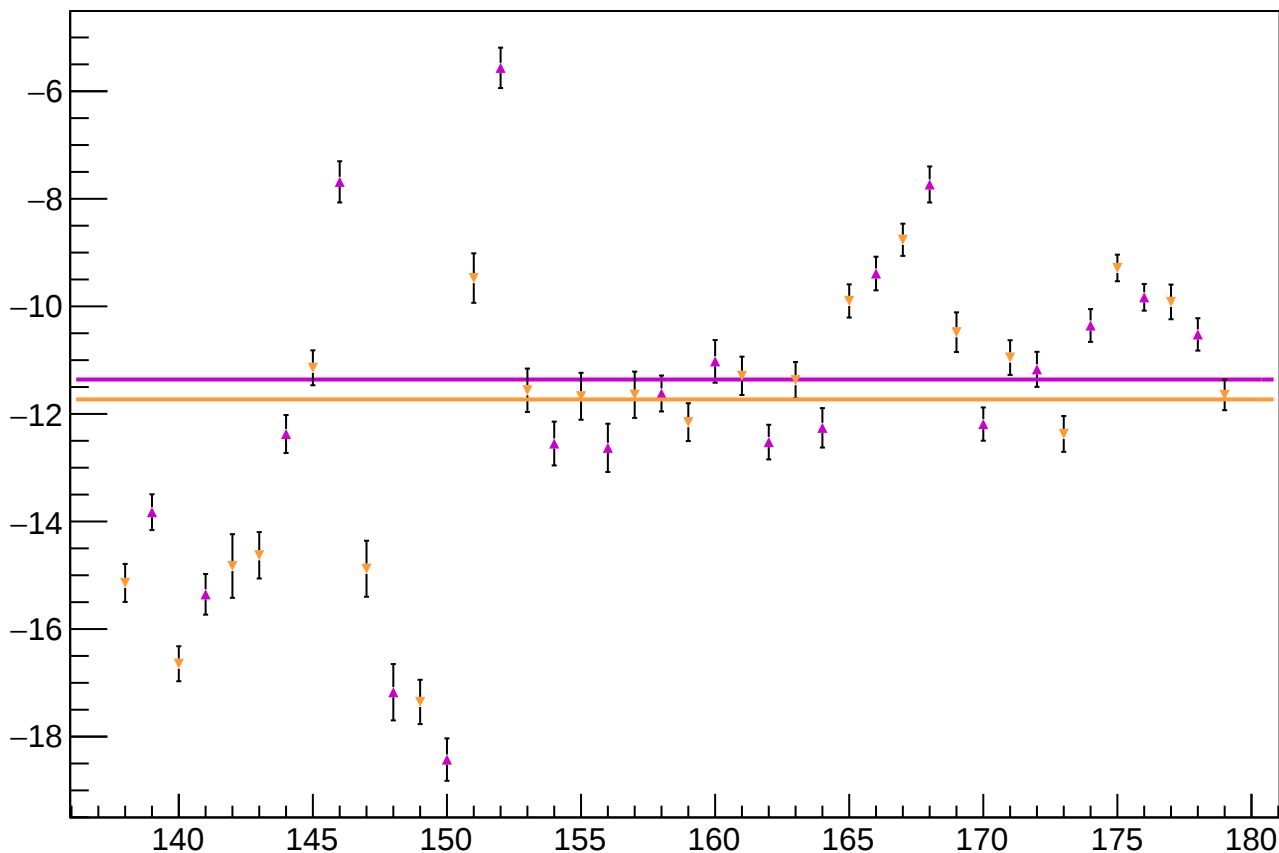
Right: -0.533 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 866.4/34

In: -0.477 $\pm$ 0.008  $\chi^2/\text{NDF}$ :1570.3/36

Out: -0.534 $\pm$ 0.008  $\chi^2/\text{NDF}$ :1822.6/39

All: -0.506 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 3420.8/76

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -11.730 $\pm$ 0.075  $\chi^2/\text{NDF}$ :932.1/21

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

Left In: -11.360 $\pm$ 0.077  $\chi^2/\text{NDF}$ :1207.3/19

Left: -11.550 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 2151.3/41

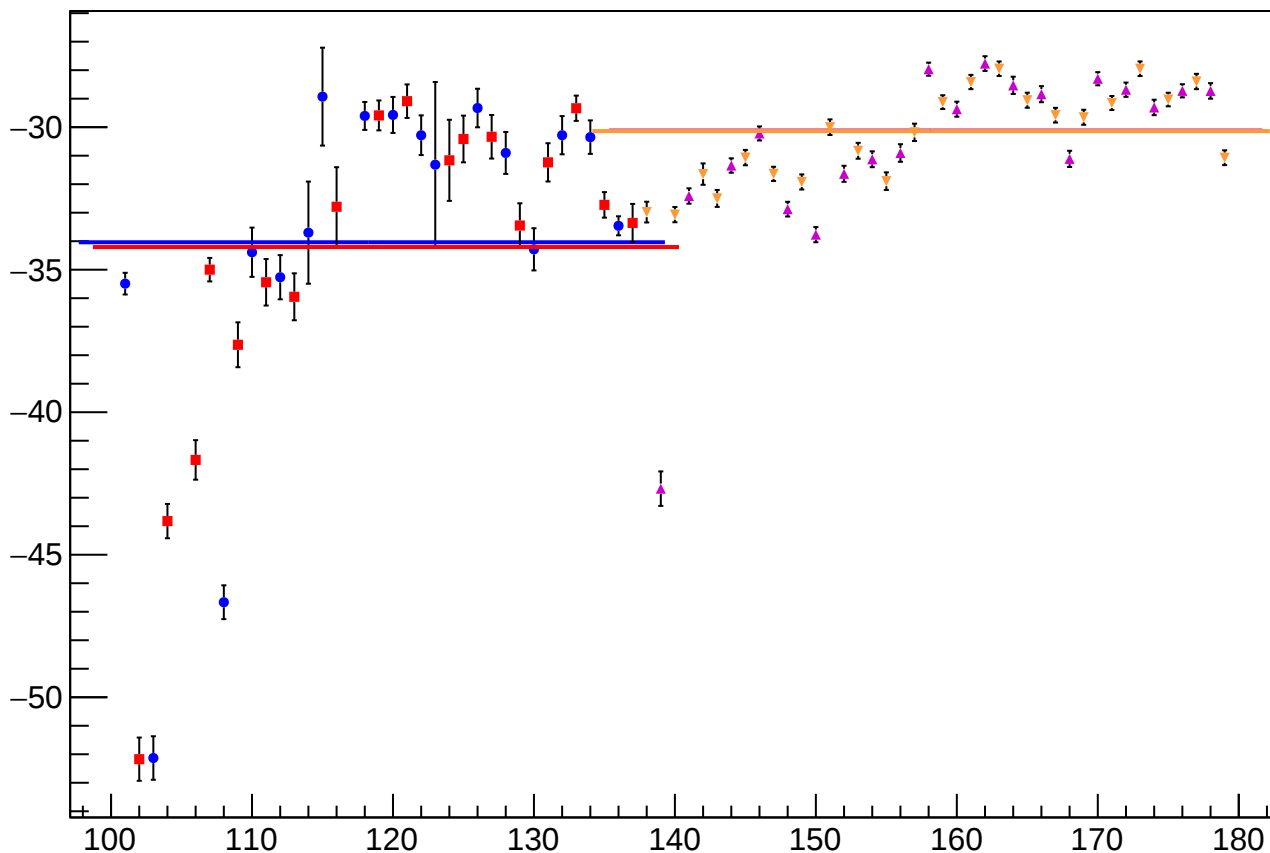
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.360 $\pm$ 0.077  $\chi^2/\text{NDF}$ :1207.3/19

Out: -11.730 $\pm$ 0.075  $\chi^2/\text{NDF}$ :932.1/21

All: -11.550 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 2151.3/41

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-34.038 \pm 0.151$   $\chi^2/\text{NDF}$ : 1342.9/16

Left Out:  $-30.136 \pm 0.058$   $\chi^2/\text{NDF}$ : 720.2/21

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

Left In:  $-30.116 \pm 0.060$   $\chi^2/\text{NDF}$ : 1280.1/19

Left:  $-30.126 \pm 0.042$   $\chi^2/\text{NDF}$ : 2000.4/41

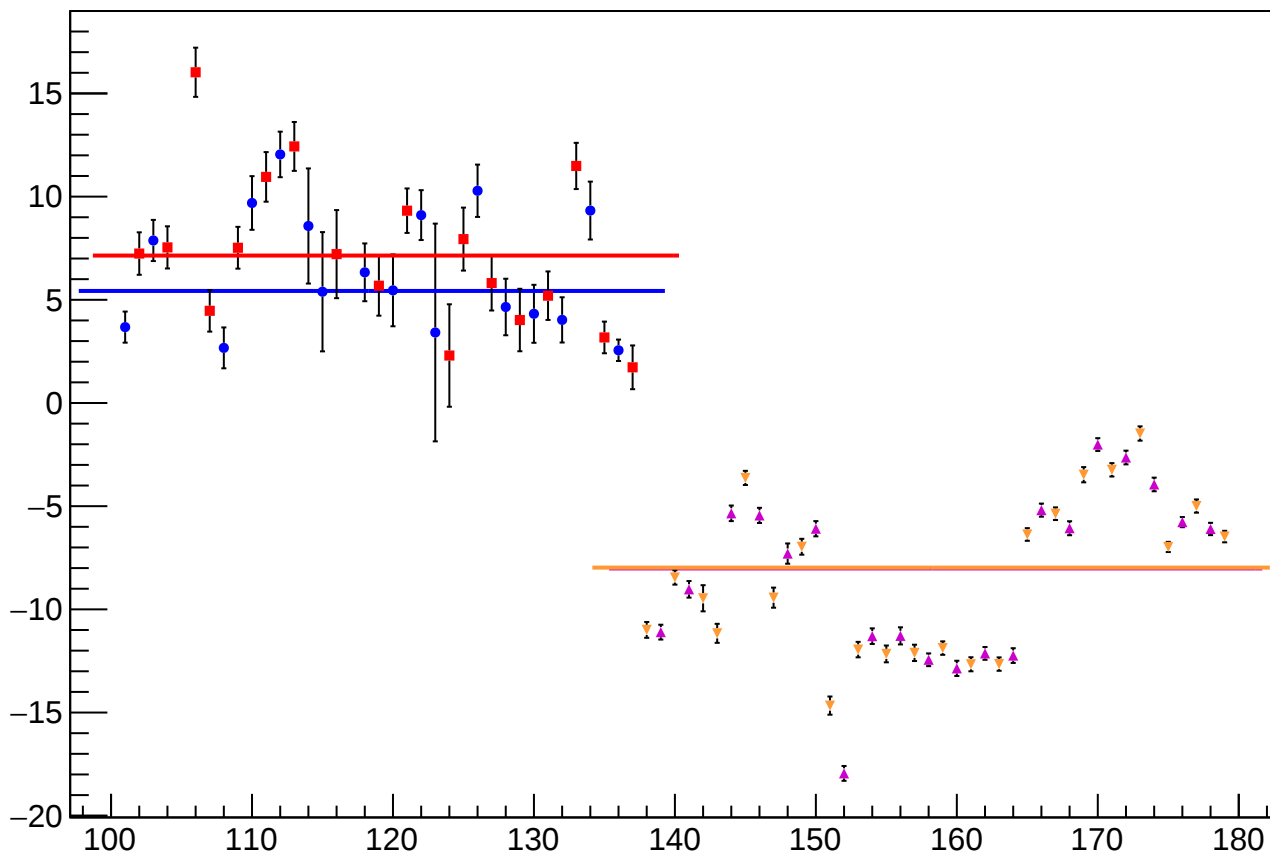
Right:  $-34.121 \pm 0.107$   $\chi^2/\text{NDF}$ : 2664.3/34

In:  $-30.652 \pm 0.056$   $\chi^2/\text{NDF}$ : 3206.4/36

Out:  $-30.654 \pm 0.054$   $\chi^2/\text{NDF}$ : 2676.1/39

All:  $-30.653 \pm 0.039$   $\chi^2/\text{NDF}$ : 5882.6/76

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.429 \pm 0.270$   $\chi^2/\text{NDF}$ : 132.6/16

Left Out:  $-7.976 \pm 0.075$   $\chi^2/\text{NDF}$ : 2335.3/21

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

Left In:  $-8.018 \pm 0.076$   $\chi^2/\text{NDF}$ : 2828.4/19

Left:  $-7.997 \pm 0.053$   $\chi^2/\text{NDF}$ : 5163.9/41

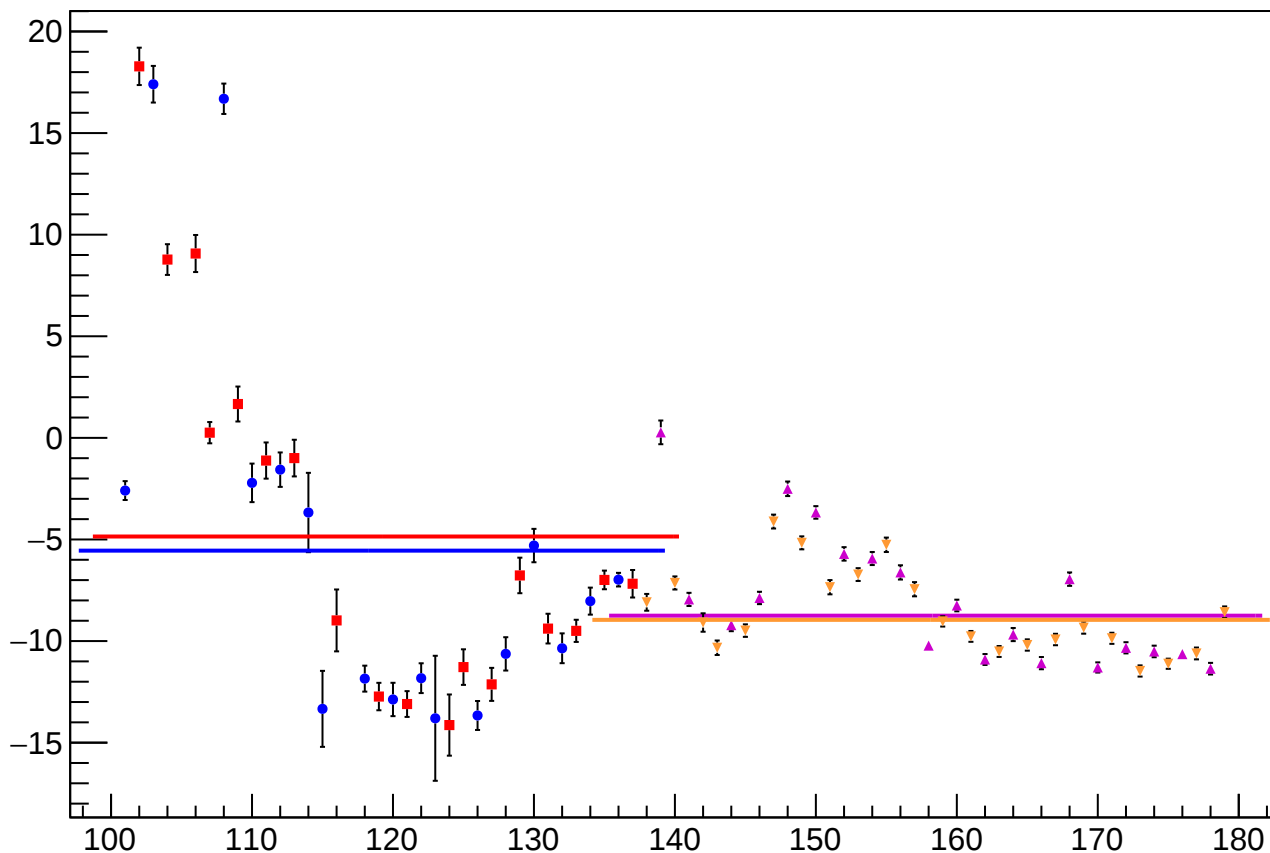
Right:  $6.271 \pm 0.193$   $\chi^2/\text{NDF}$ : 330.3/34

In:  $-7.021 \pm 0.073$   $\chi^2/\text{NDF}$ : 5259.5/36

Out:  $-6.938 \pm 0.072$   $\chi^2/\text{NDF}$ : 5330.1/39

All:  $-6.979 \pm 0.051$   $\chi^2/\text{NDF}$ : 10590.3/76

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-5.550 \pm 0.170$   $\chi^2/\text{NDF}$ : 2126.6/16

Left Out:  $-8.956 \pm 0.065$   $\chi^2/\text{NDF}$ : 870.2/21

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

Left In:  $-8.751 \pm 0.067$   $\chi^2/\text{NDF}$ : 1544.3/19

Left:  $-8.857 \pm 0.047$   $\chi^2/\text{NDF}$ : 2419.4/41

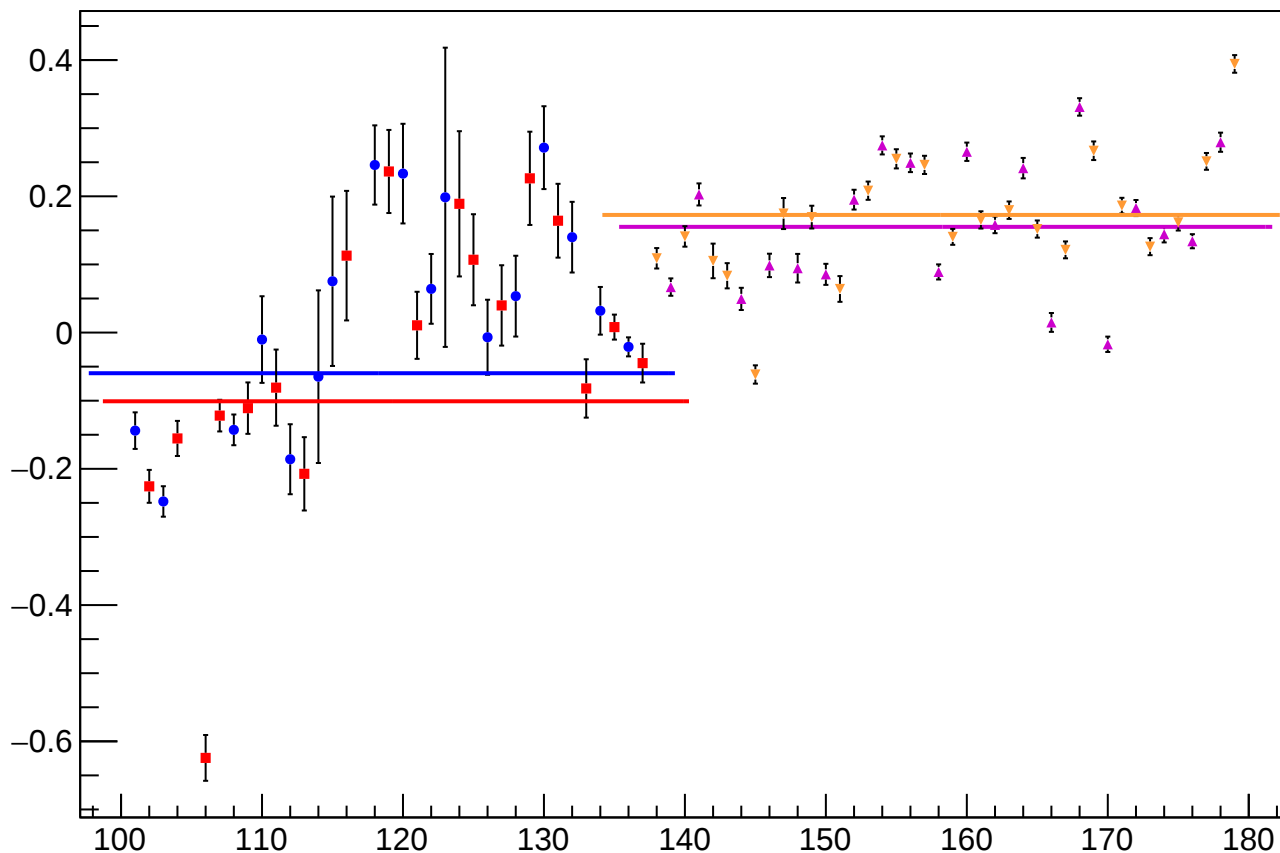
Right:  $-5.208 \pm 0.121$   $\chi^2/\text{NDF}$ : 4147.9/34

In:  $-8.319 \pm 0.062$   $\chi^2/\text{NDF}$ : 3977.3/36

Out:  $-8.451 \pm 0.061$   $\chi^2/\text{NDF}$ : 3377.1/39

All:  $-8.387 \pm 0.044$   $\chi^2/\text{NDF}$ : 7356.7/76

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.060 \pm 0.008$   $\chi^2/\text{NDF}$ : 216.6/16

Left Out:  $0.173 \pm 0.003$   $\chi^2/\text{NDF}$ : 886.2/21

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

Left In:  $0.155 \pm 0.003$   $\chi^2/\text{NDF}$ : 1023.5/19

Left:  $0.164 \pm 0.002$   $\chi^2/\text{NDF}$ : 1927.0/41

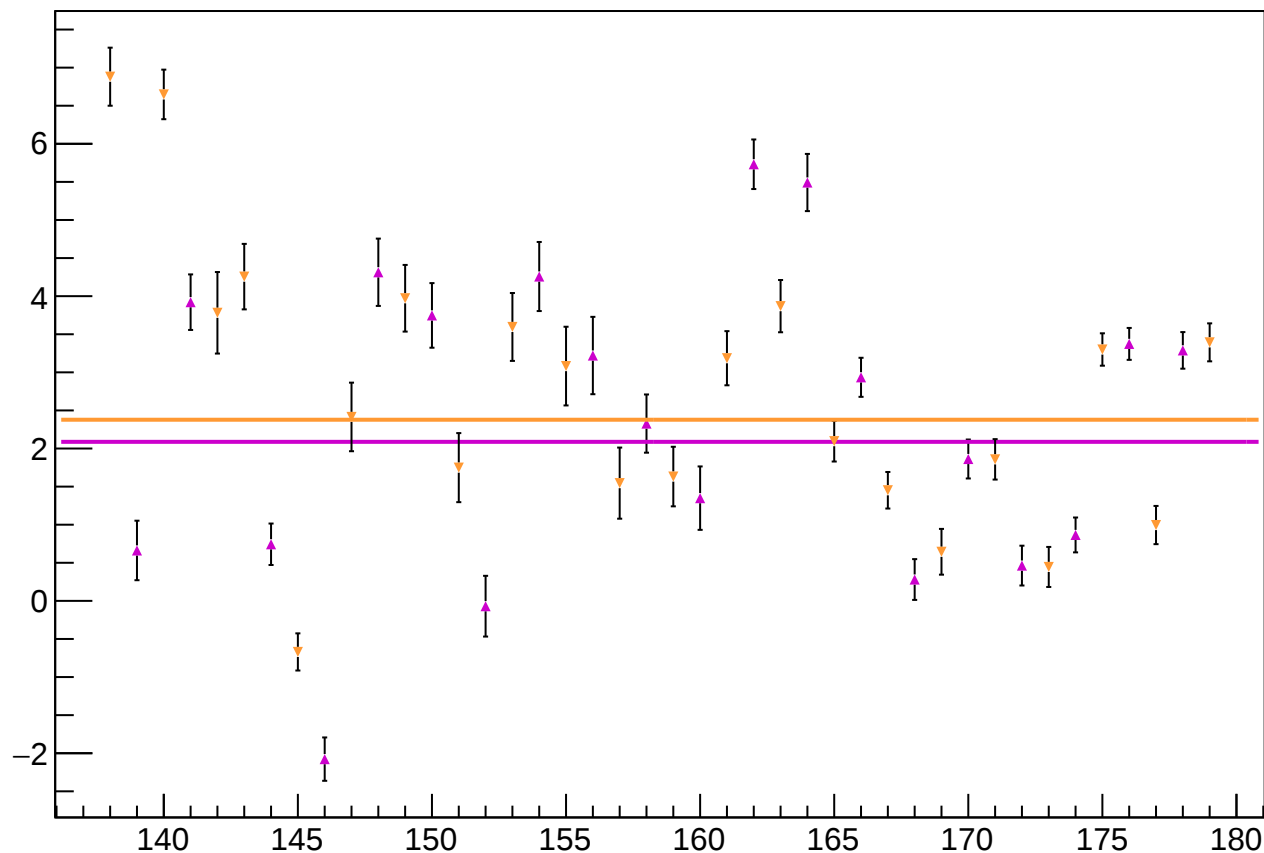
Right:  $-0.080 \pm 0.006$   $\chi^2/\text{NDF}$ : 656.9/34

In:  $0.131 \pm 0.003$   $\chi^2/\text{NDF}$ : 1821.3/36

Out:  $0.143 \pm 0.003$   $\chi^2/\text{NDF}$ : 2249.7/39

All:  $0.137 \pm 0.002$   $\chi^2/\text{NDF}$ : 4080.0/76

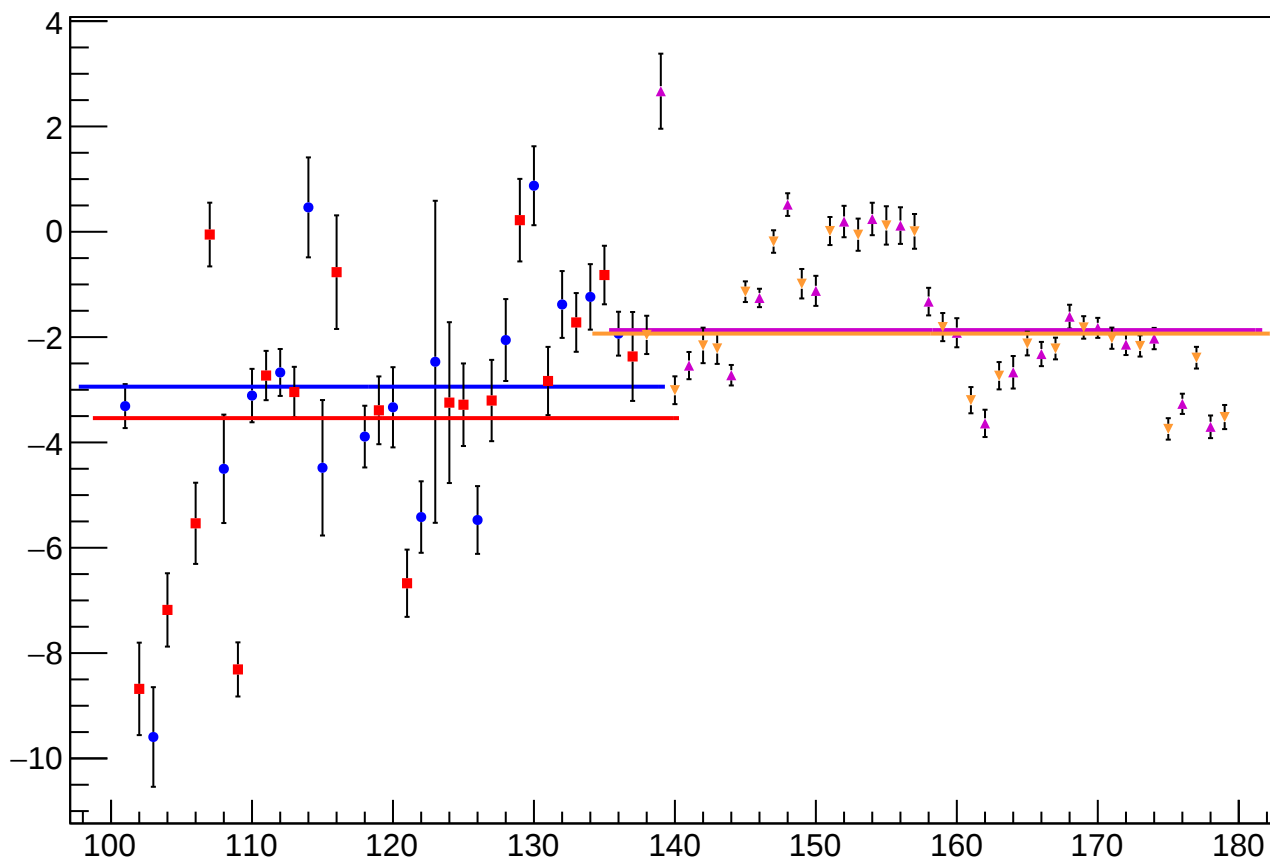
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $2.378 \pm 0.068$   $\chi^2/\text{NDF}: 722.6/21$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $2.088 \pm 0.068$   $\chi^2/\text{NDF}: 773.6/19$

Left:  $2.235 \pm 0.048$   $\chi^2/\text{NDF}: 1505.3/41$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $2.088 \pm 0.068$   $\chi^2/\text{NDF}: 773.6/19$   
 Out:  $2.378 \pm 0.068$   $\chi^2/\text{NDF}: 722.6/21$   
 All:  $2.235 \pm 0.048$   $\chi^2/\text{NDF}: 1505.3/41$

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.941 \pm 0.154$   $\chi^2/\text{NDF}: 145.6/16$

Left Out:  $-1.933 \pm 0.052$   $\chi^2/\text{NDF}: 442.1/21$

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}: 283.6/17$

Left In:  $-1.867 \pm 0.053$   $\chi^2/\text{NDF}: 527.1/19$

Left:  $-1.901 \pm 0.037$   $\chi^2/\text{NDF}: 970.0/41$

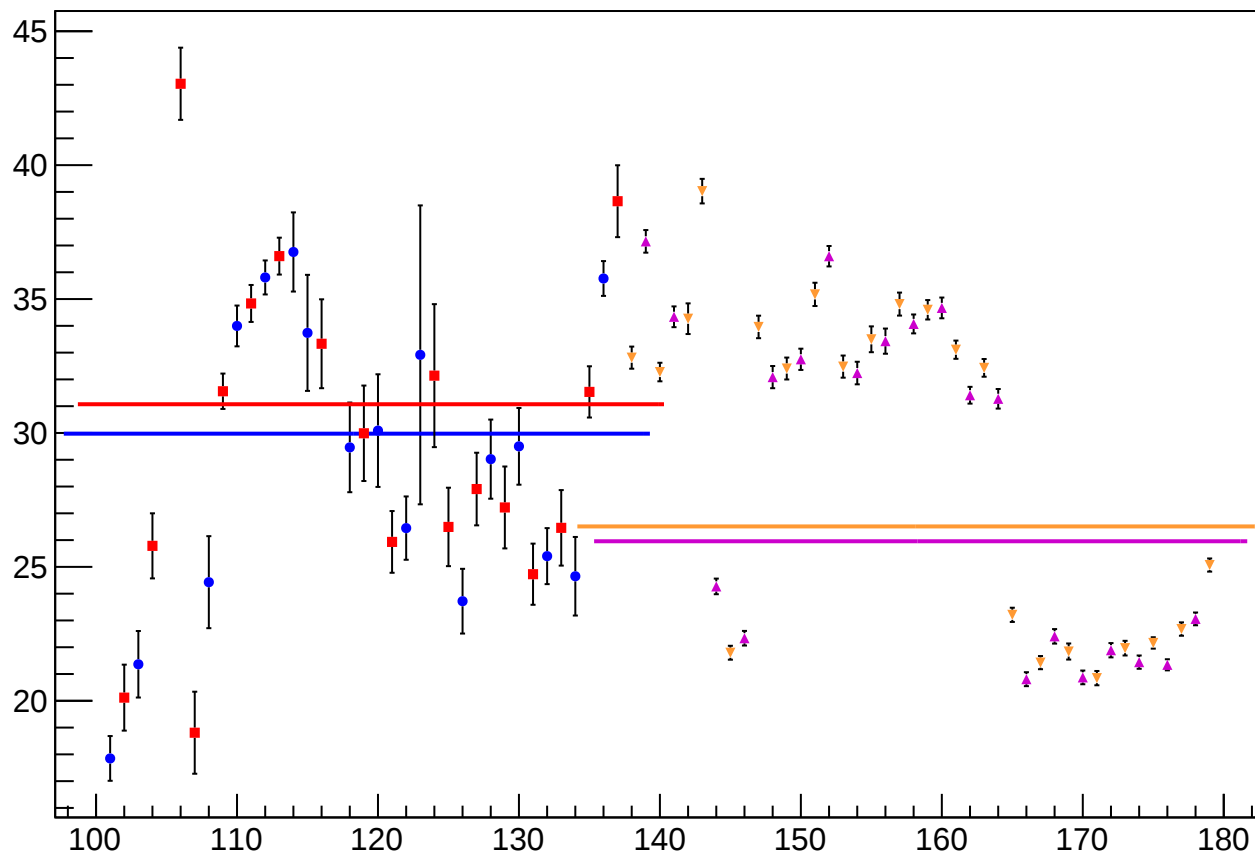
Right:  $-3.239 \pm 0.109$   $\chi^2/\text{NDF}: 436.6/34$

In:  $-1.980 \pm 0.050$   $\chi^2/\text{NDF}: 716.1/36$

Out:  $-2.096 \pm 0.049$   $\chi^2/\text{NDF}: 822.5/39$

All:  $-2.039 \pm 0.035$   $\chi^2/\text{NDF}: 1541.4/76$

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.974+/-0.267  $\chi^2/\text{NDF}$ : 553.9/16

Left Out: 26.510+/-0.068  $\chi^2/\text{NDF}$ : 6912.3/21

Right Out: 31.073+/-0.260  $\chi^2/\text{NDF}$ : 453.4/17

Left In: 25.957+/-0.068  $\chi^2/\text{NDF}$ : 6856.8/19

Left: 26.237+/-0.048  $\chi^2/\text{NDF}$ : 13802.2/41

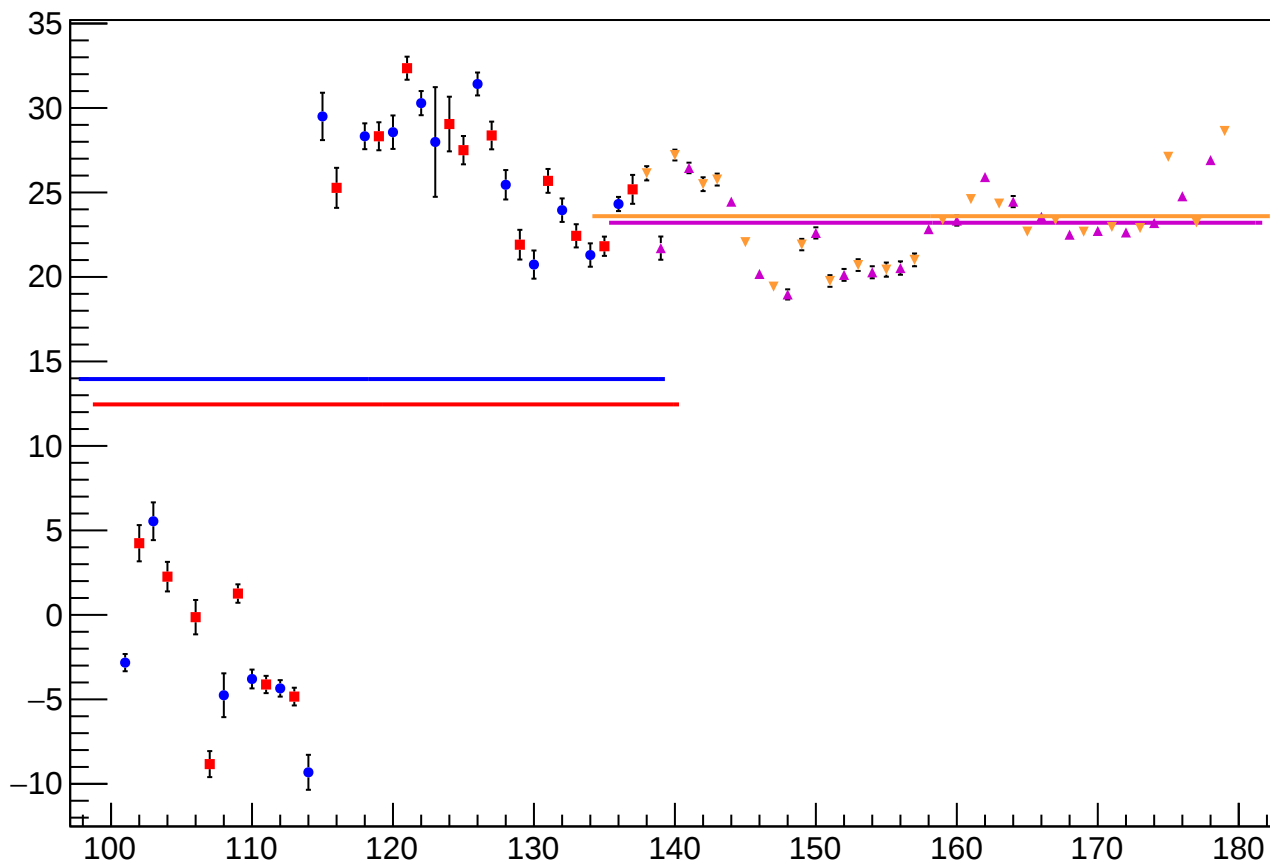
Right: 30.537+/-0.187  $\chi^2/\text{NDF}$ : 1016.0/34

In: 26.204+/-0.066  $\chi^2/\text{NDF}$ : 7622.8/36

Out: 26.799+/-0.065  $\chi^2/\text{NDF}$ : 7653.1/39

All: 26.505+/-0.047  $\chi^2/\text{NDF}$ : 15316.7/76

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.957 $\pm$ 0.172  $\chi^2$ /NDF: 7348.7/16

Left Out: 23.597 $\pm$ 0.058  $\chi^2$ /NDF:1539.2/21

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

Left In: 23.208 $\pm$ 0.060  $\chi^2$ /NDF:1188.2/19

Left: 23.406 $\pm$ 0.042  $\chi^2$ /NDF: 2749.1/41

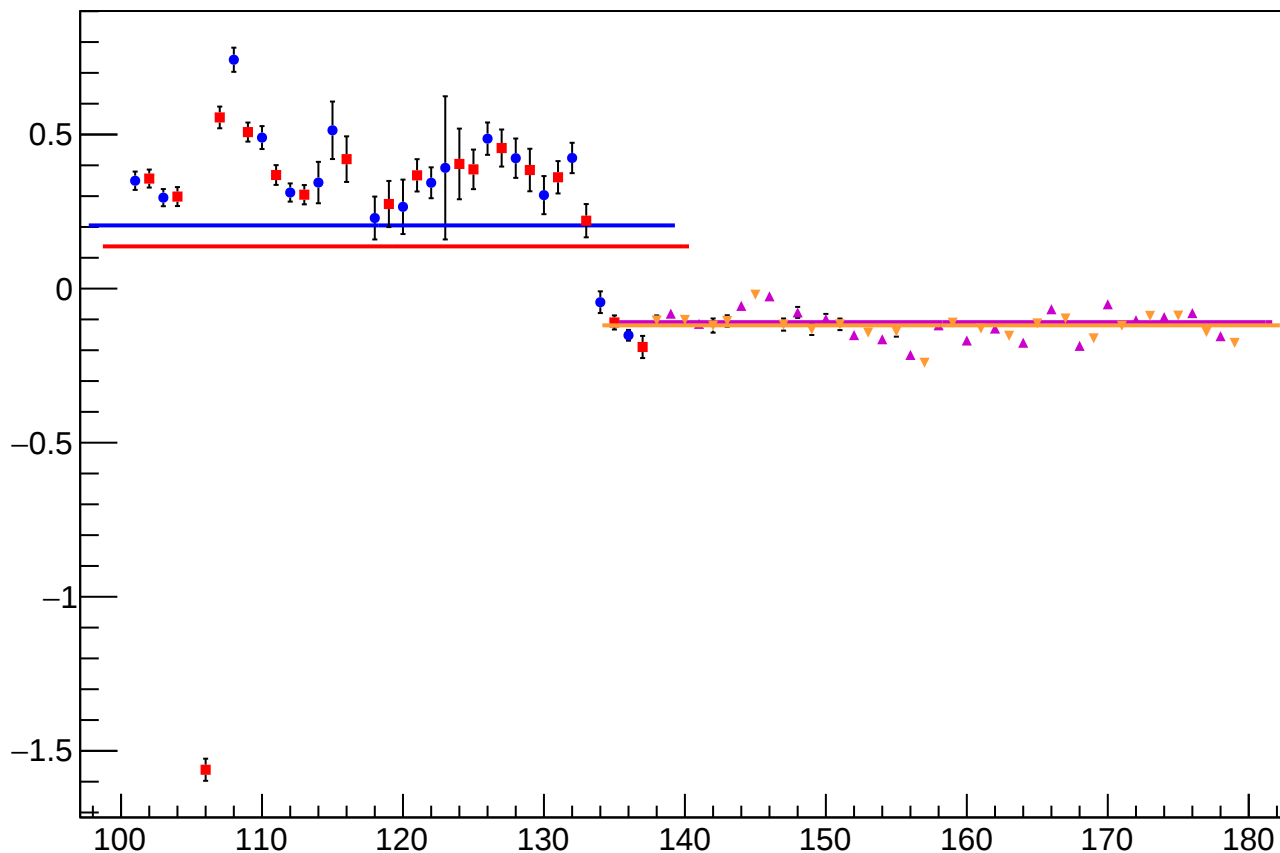
Right: 13.213 $\pm$ 0.122  $\chi^2$ /NDF: 14366.2/34

In: 22.220 $\pm$ 0.056  $\chi^2$ /NDF:11111.5/36

Out: 22.462 $\pm$ 0.055  $\chi^2$ /NDF:12211.5/39

All: 22.343 $\pm$ 0.040  $\chi^2$ /NDF: 23332.4/76

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.205+/-0.009  $\chi^2/\text{NDF}$ : 846.7/16

Left Out: -0.119+/-0.003  $\chi^2/\text{NDF}$ : 250.0/21

Right Out: 0.137+/-0.009  $\chi^2/\text{NDF}$ : 3007.9/17

Left In: -0.109+/-0.003  $\chi^2/\text{NDF}$ : 317.4/19

Left: -0.114+/-0.002  $\chi^2/\text{NDF}$ : 574.7/41

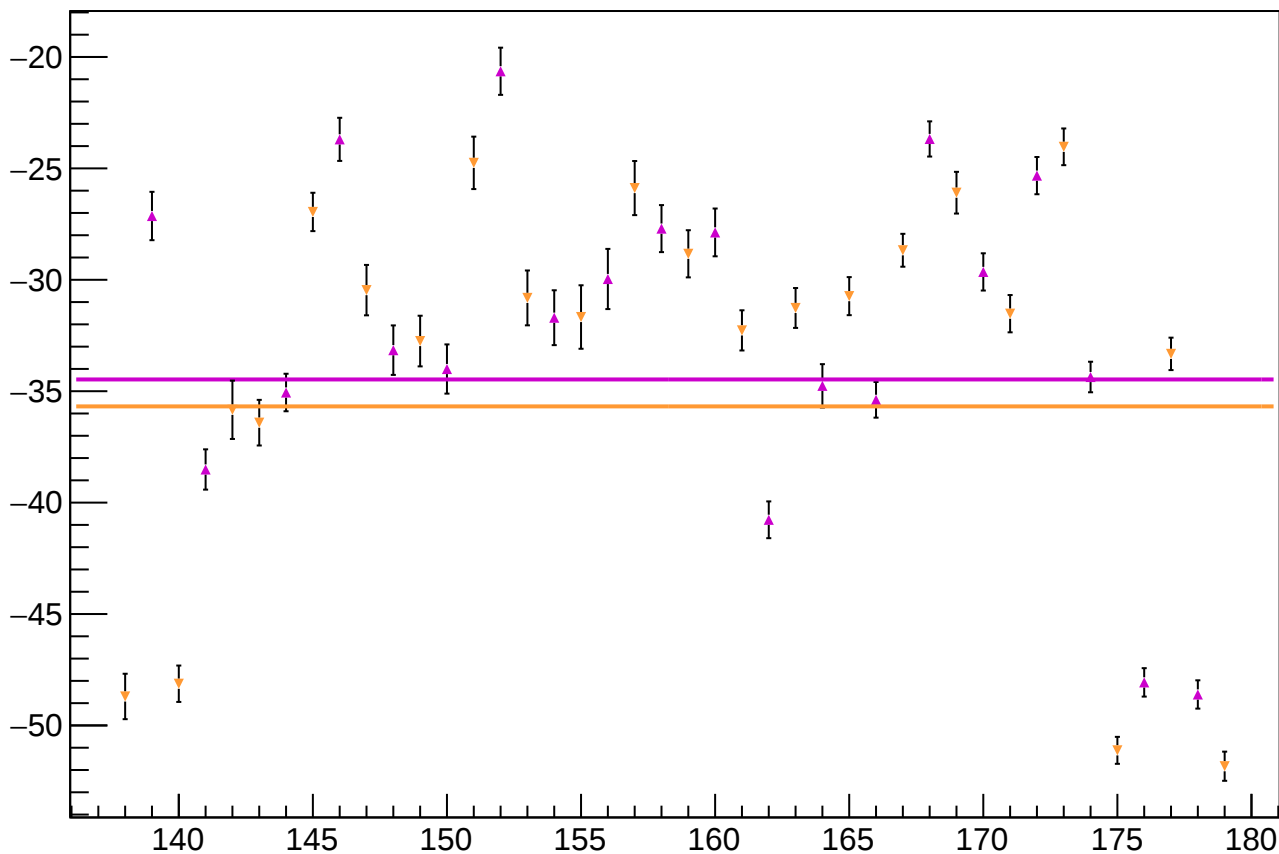
Right: 0.170+/-0.007  $\chi^2/\text{NDF}$ : 3881.4/34

In: -0.085+/-0.003  $\chi^2/\text{NDF}$ : 2199.8/36

Out: -0.099+/-0.003  $\chi^2/\text{NDF}$ : 3970.1/39

All: -0.092+/-0.002  $\chi^2/\text{NDF}$ : 6185.6/76

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



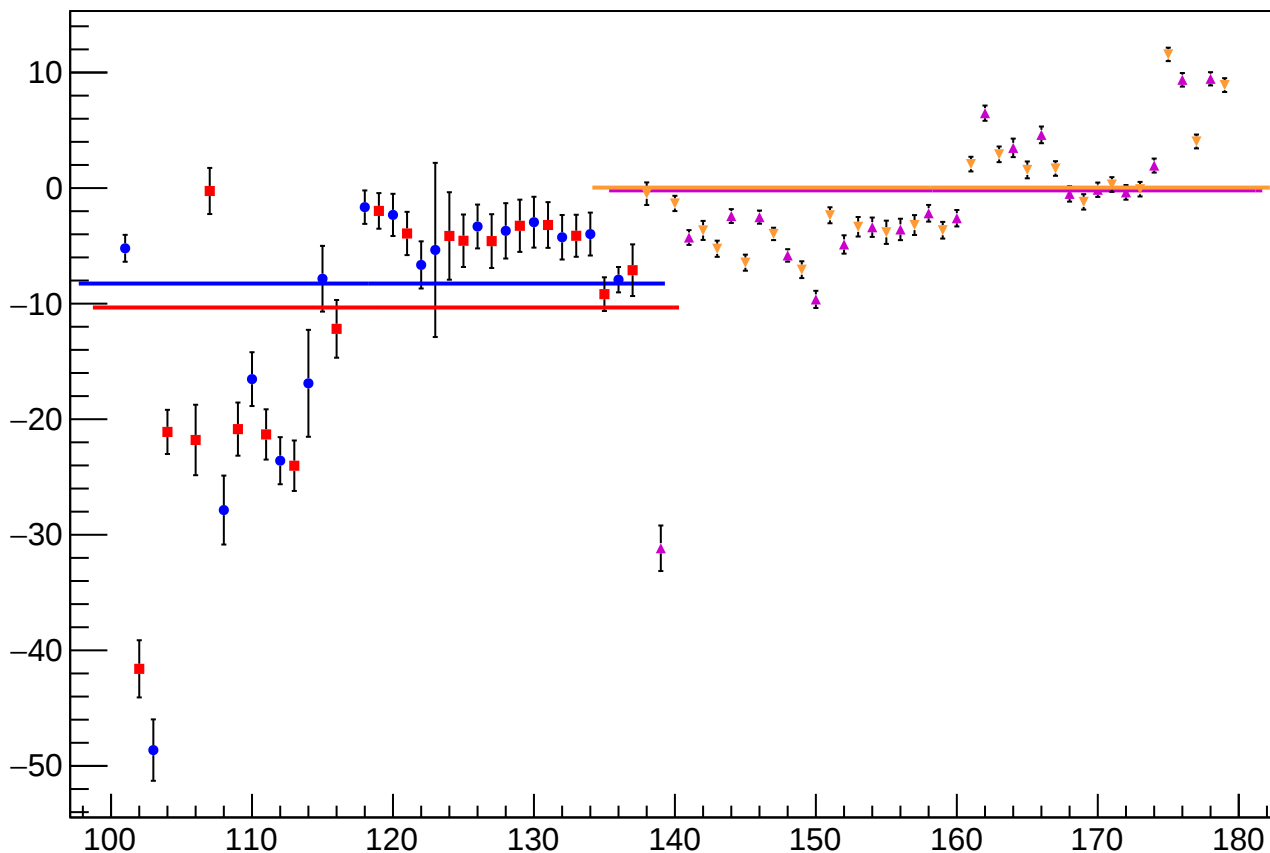
Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.682 $\pm$ 0.192  $\chi^2/\text{NDF}$ :2505.8/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.473 $\pm$ 0.197  $\chi^2/\text{NDF}$ :1806.6/19

Left: -35.093 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 4331.7/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.473 $\pm$ 0.197  $\chi^2/\text{NDF}$ :1806.6/19  
 Out: -35.682 $\pm$ 0.192  $\chi^2/\text{NDF}$ :2505.8/21

All: -35.093 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 4331.7/41

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-8.261 \pm 0.463$   $\chi^2/\text{NDF}$ : 411.9/16

Left Out:  $0.042 \pm 0.146$   $\chi^2/\text{NDF}$ : 1104.4/21

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}$ : 410.9/17

Left In:  $-0.198 \pm 0.151$   $\chi^2/\text{NDF}$ : 1397.6/19

Left:  $-0.074 \pm 0.105$   $\chi^2/\text{NDF}$ : 2503.2/41

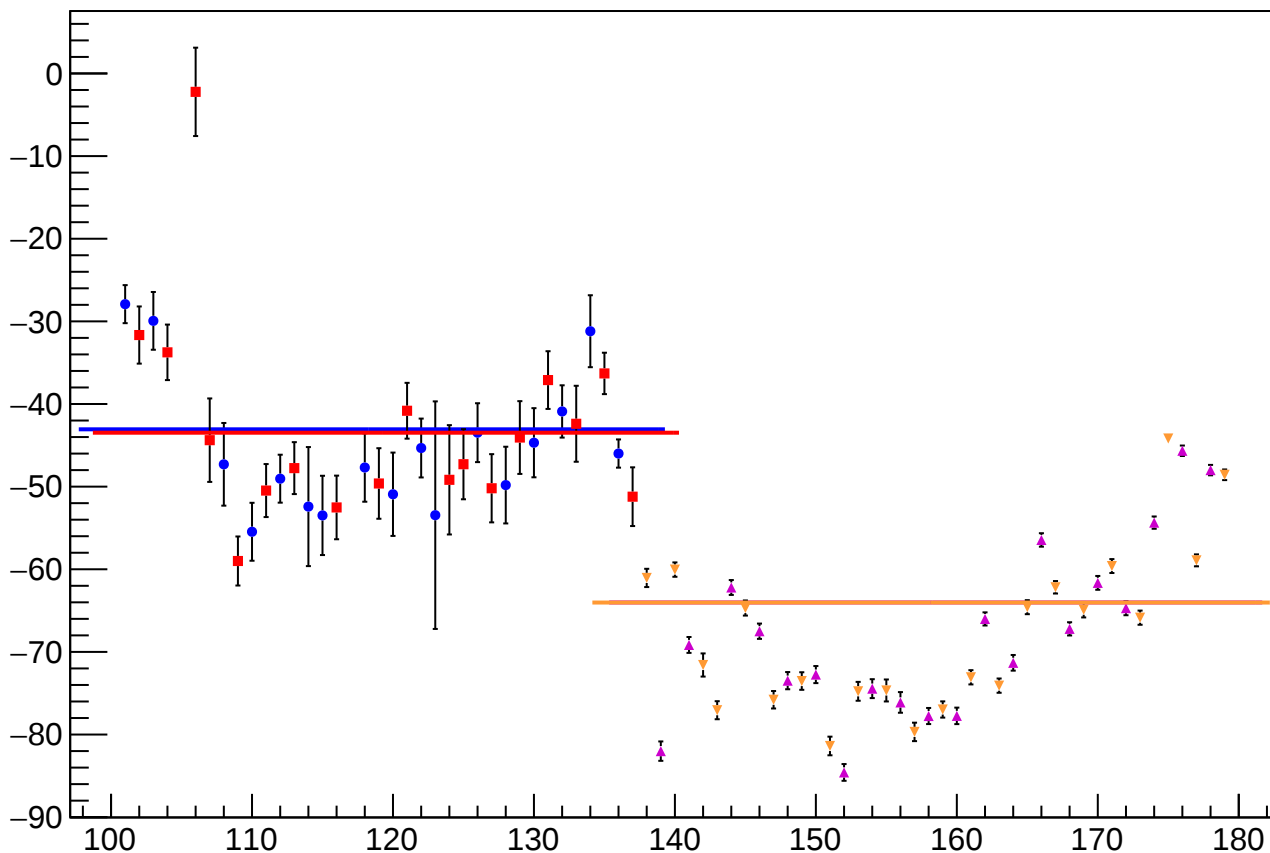
Right:  $-9.235 \pm 0.337$   $\chi^2/\text{NDF}$ : 832.3/34

In:  $-0.979 \pm 0.144$   $\chi^2/\text{NDF}$ : 2083.8/36

Out:  $-0.802 \pm 0.140$   $\chi^2/\text{NDF}$ : 1925.3/39

All:  $-0.888 \pm 0.100$   $\chi^2/\text{NDF}$ : 4009.9/76

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



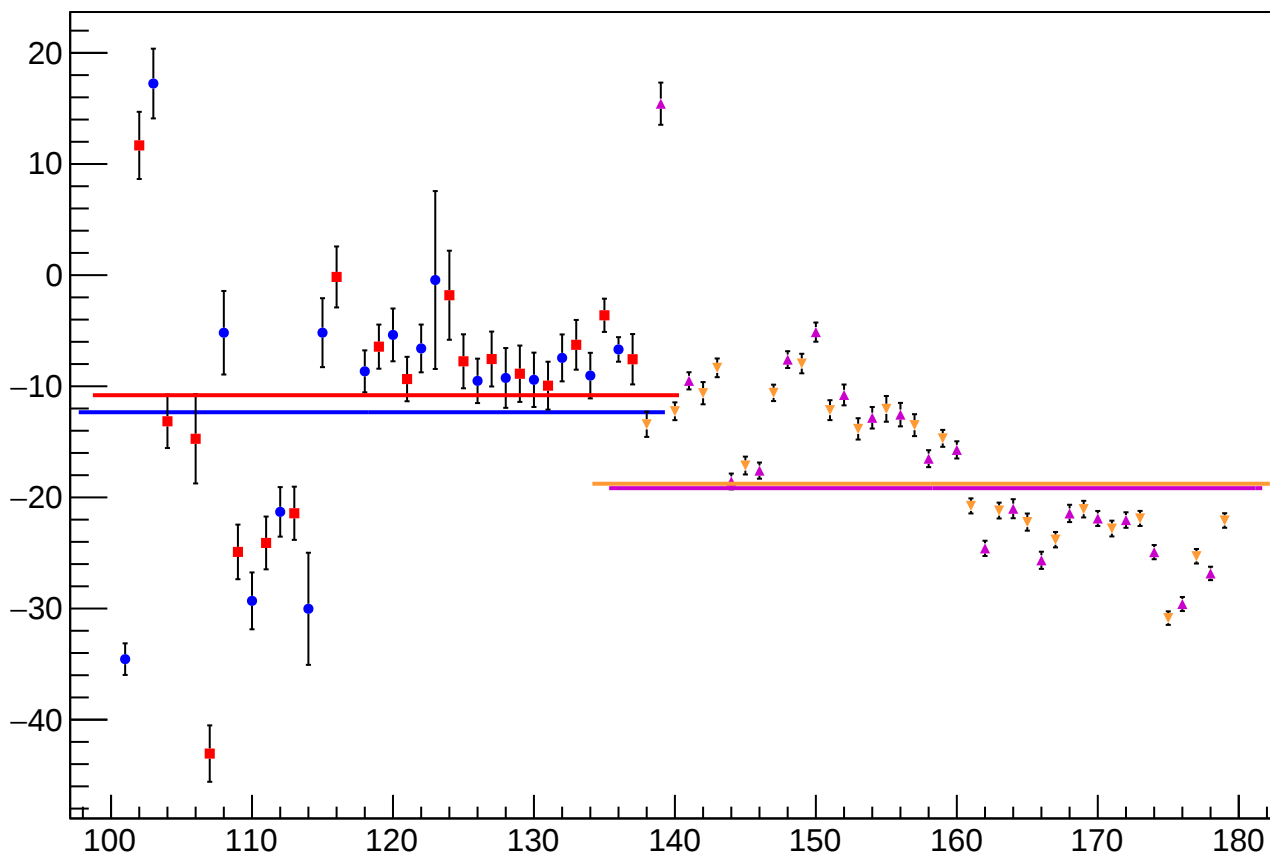
Right In:  $-43.064 \pm 0.835$   $\chi^2/\text{NDF}: 99.0/16$   
 Left Out:  $-64.025 \pm 0.192$   $\chi^2/\text{NDF}: 3149.2/21$   
 Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$   
 Left In:  $-64.016 \pm 0.196$   $\chi^2/\text{NDF}: 3248.1/19$

Left:  $-64.021 \pm 0.137$   $\chi^2/\text{NDF}: 6397.3/41$   
 Right:  $-43.261 \pm 0.602$   $\chi^2/\text{NDF}: 241.5/34$

In:  $-62.918 \pm 0.191$   $\chi^2/\text{NDF}: 3943.3/36$   
 Out:  $-63.071 \pm 0.187$   $\chi^2/\text{NDF}: 3825.3/39$

All:  $-62.996 \pm 0.134$   $\chi^2/\text{NDF}: 7768.9/76$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.336 \pm 0.520$   $\chi^2/\text{NDF}$ : 475.2/16

Left Out:  $-18.770 \pm 0.166$   $\chi^2/\text{NDF}$ : 1432.7/21

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

Left In:  $-19.168 \pm 0.171$   $\chi^2/\text{NDF}$ : 1879.3/19

Left:  $-18.962 \pm 0.119$   $\chi^2/\text{NDF}$ : 3314.8/41

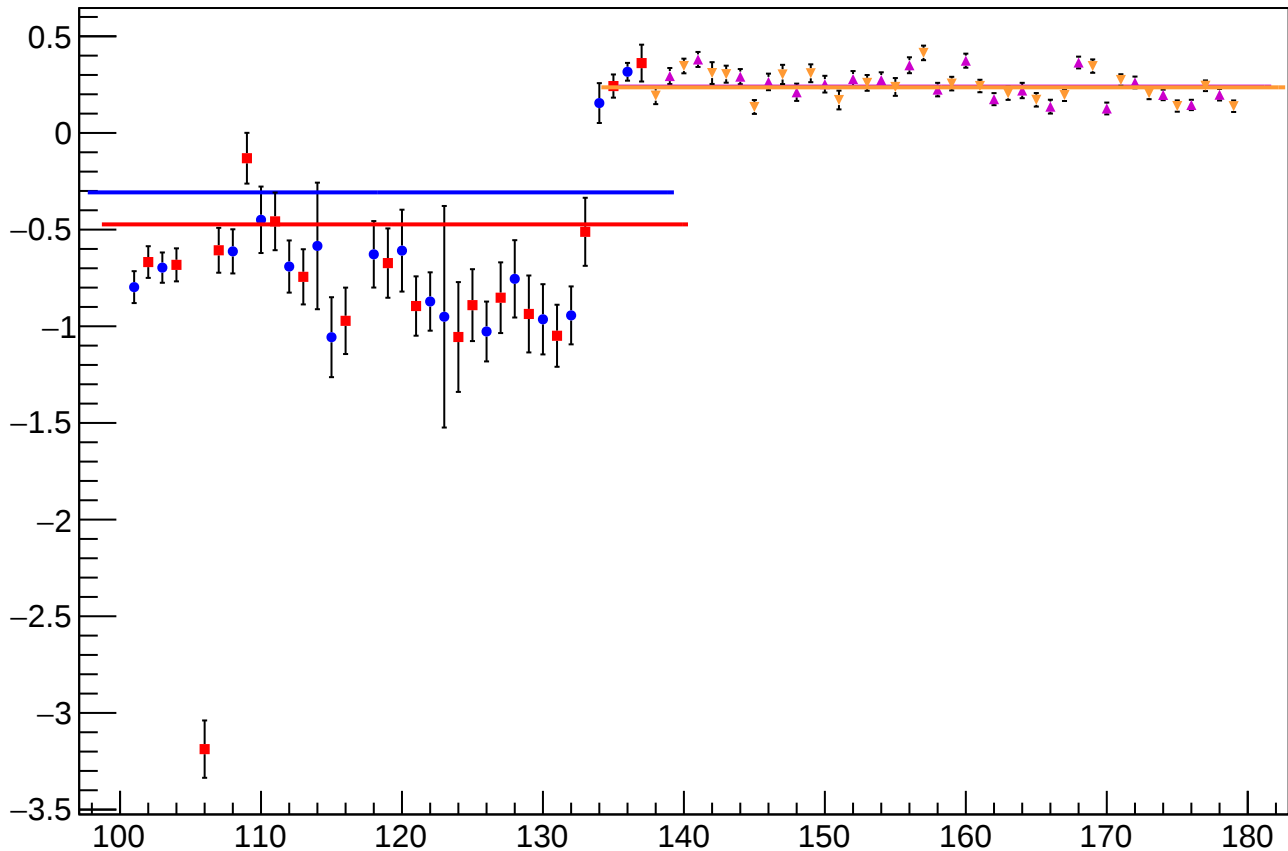
Right:  $-11.618 \pm 0.379$   $\chi^2/\text{NDF}$ : 840.6/34

In:  $-18.501 \pm 0.163$   $\chi^2/\text{NDF}$ : 2510.0/36

Out:  $-18.116 \pm 0.159$   $\chi^2/\text{NDF}$ : 1984.0/39

All:  $-18.304 \pm 0.114$   $\chi^2/\text{NDF}$ : 4496.9/76

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.307 \pm 0.028$   $\chi^2/\text{NDF}$ : 372.2/16

Left Out:  $0.236 \pm 0.008$   $\chi^2/\text{NDF}$ : 90.9/21

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

Left In:  $0.240 \pm 0.008$   $\chi^2/\text{NDF}$ : 100.9/19

Left:  $0.238 \pm 0.005$   $\chi^2/\text{NDF}$ : 191.9/41

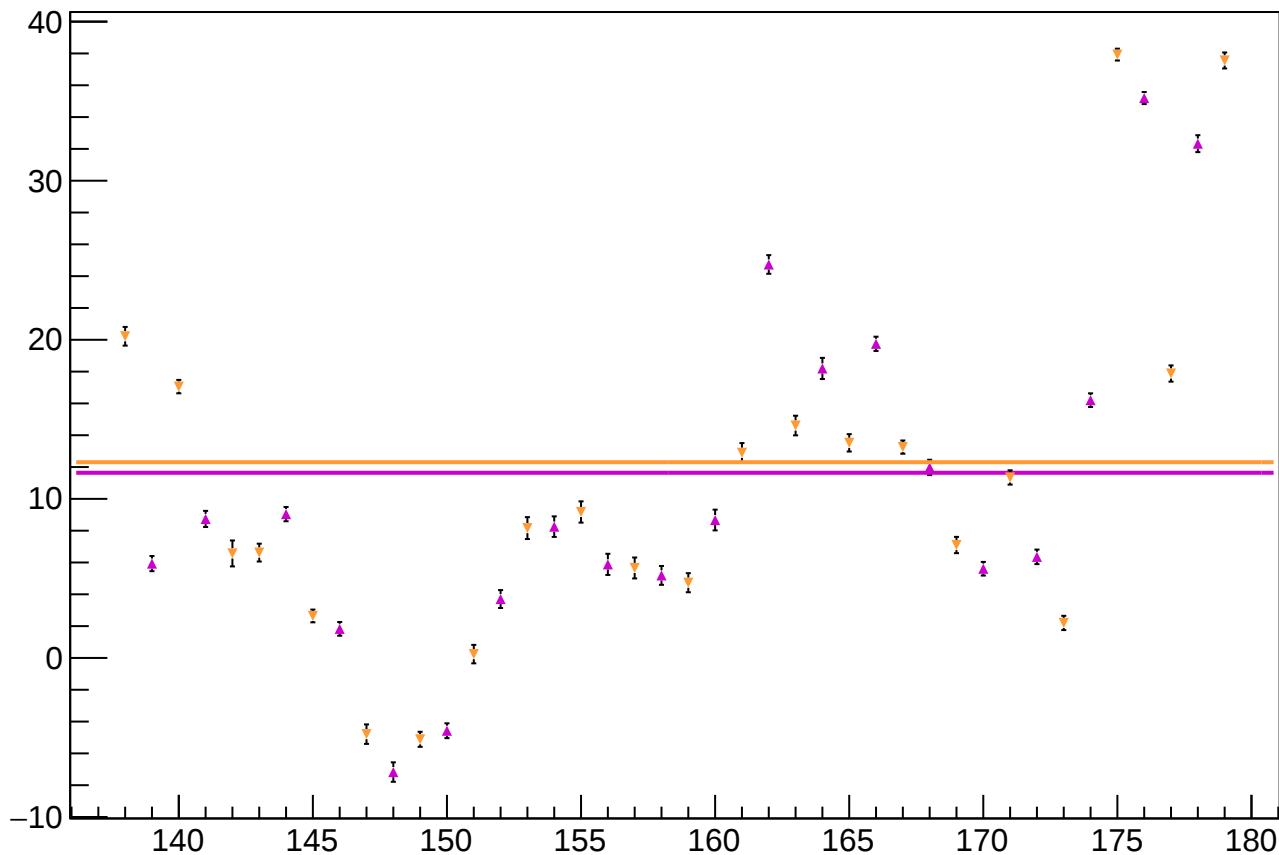
Right:  $-0.387 \pm 0.020$   $\chi^2/\text{NDF}$ : 1016.1/34

In:  $0.199 \pm 0.008$   $\chi^2/\text{NDF}$ : 838.6/36

Out:  $0.188 \pm 0.007$   $\chi^2/\text{NDF}$ : 1289.9/39

All:  $0.194 \pm 0.005$   $\chi^2/\text{NDF}$ : 2129.5/76

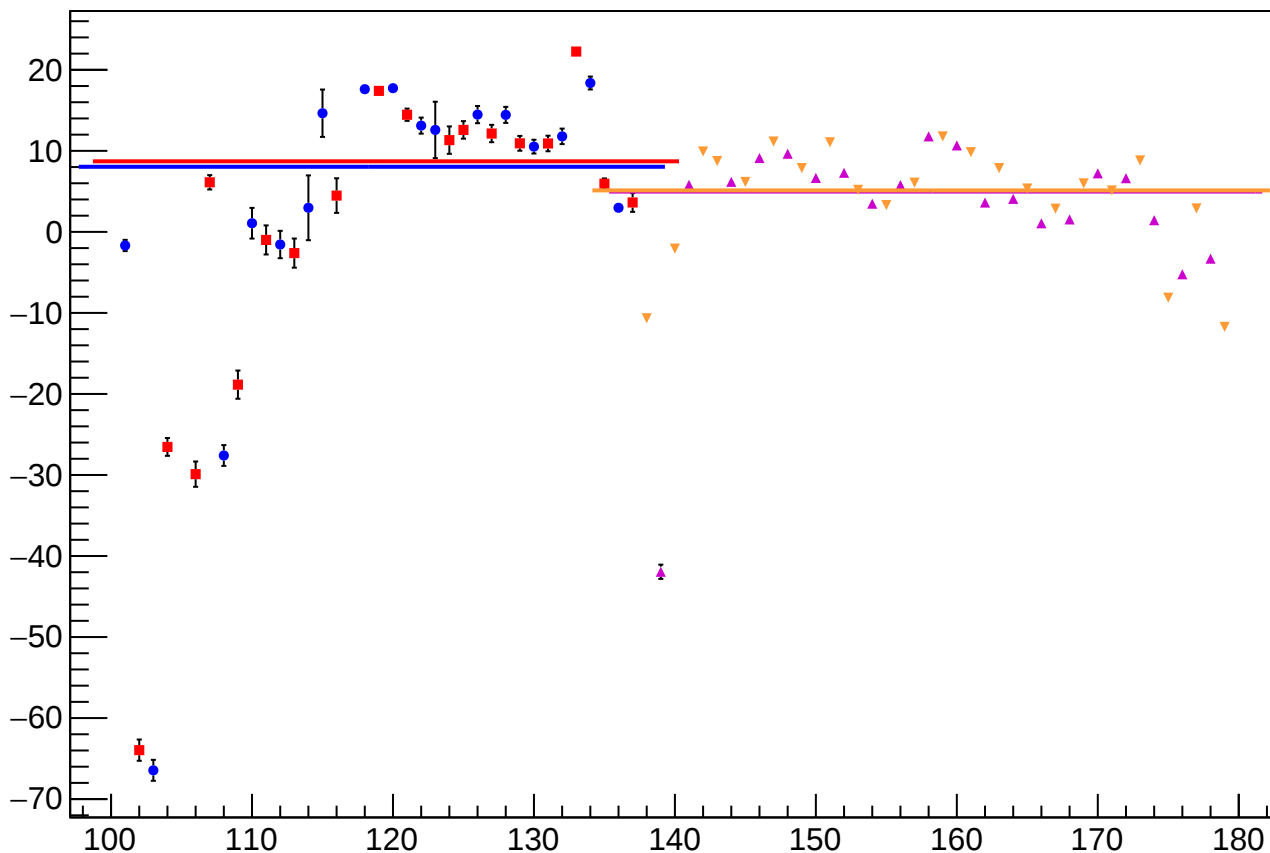
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $12.305 \pm 0.110$   $\chi^2/\text{NDF}$ : 11938.0/21  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $11.640 \pm 0.112$   $\chi^2/\text{NDF}$ : 10067.2/19

Left:  $11.978 \pm 0.079$   $\chi^2/\text{NDF}$ : 22023.1/41  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $11.640 \pm 0.112$   $\chi^2/\text{NDF}$ : 10067.2/19  
 Out:  $12.305 \pm 0.110$   $\chi^2/\text{NDF}$ : 11938.0/21  
 All:  $11.978 \pm 0.079$   $\chi^2/\text{NDF}$ : 22023.1/41

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $8.035 \pm 0.215$   $\chi^2/\text{NDF}: 5370.3/16$

Left Out:  $5.119 \pm 0.083$   $\chi^2/\text{NDF}: 5415.7/21$

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}: 6290.2/17$

Left In:  $4.972 \pm 0.086$   $\chi^2/\text{NDF}: 5316.3/19$

Left:  $5.048 \pm 0.060$   $\chi^2/\text{NDF}: 10733.6/41$

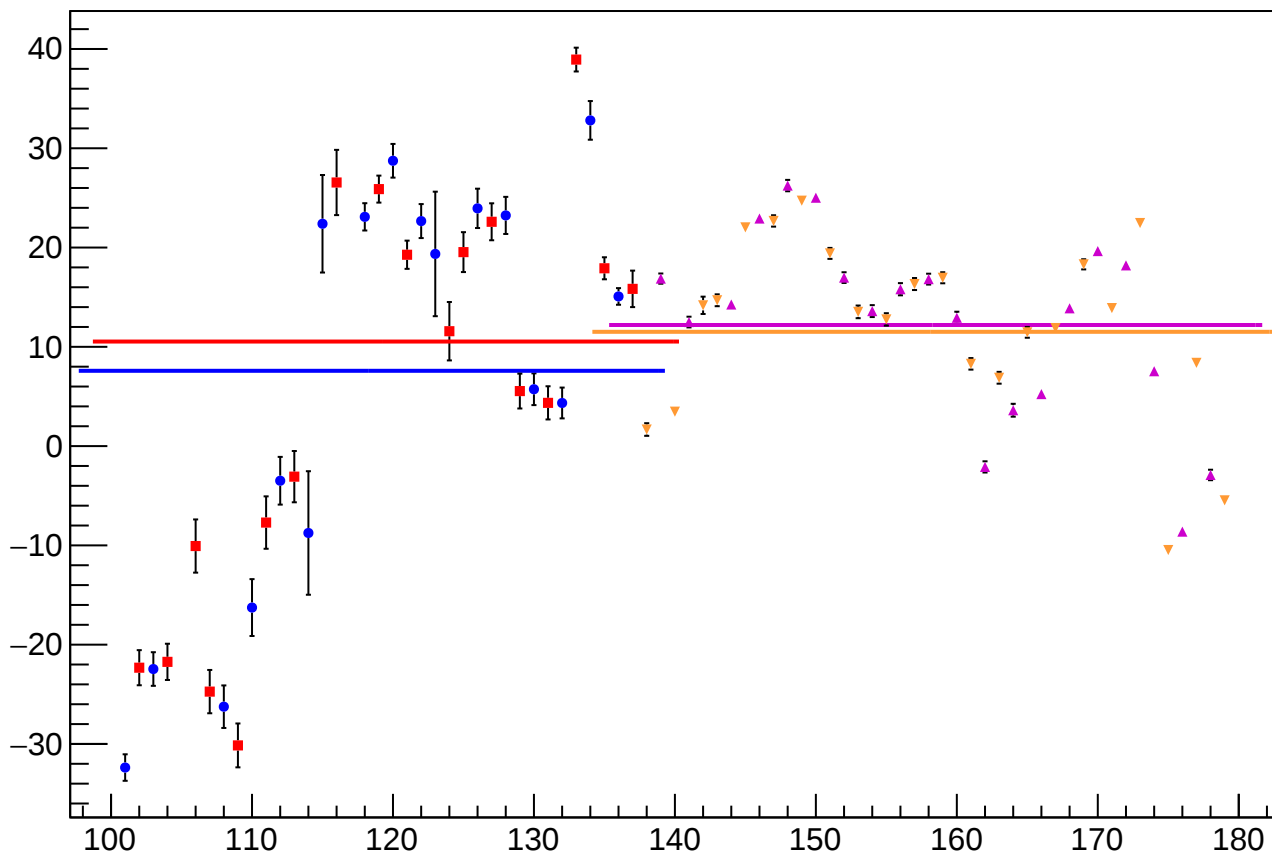
Right:  $8.375 \pm 0.151$   $\chi^2/\text{NDF}: 11665.4/34$

In:  $5.390 \pm 0.080$   $\chi^2/\text{NDF}: 10861.4/36$

Out:  $5.590 \pm 0.077$   $\chi^2/\text{NDF}: 11952.2/39$

All:  $5.493 \pm 0.055$   $\chi^2/\text{NDF}: 22816.8/76$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $7.585 \pm 0.416$   $\chi^2/\text{NDF}: 2322.7/16$

Left Out:  $11.513 \pm 0.110$   $\chi^2/\text{NDF}: 8403.5/21$

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}: 2279.5/17$

Left In:  $12.199 \pm 0.112$   $\chi^2/\text{NDF}: 7950.2/19$

Left:  $11.851 \pm 0.078$   $\chi^2/\text{NDF}: 16372.9/41$

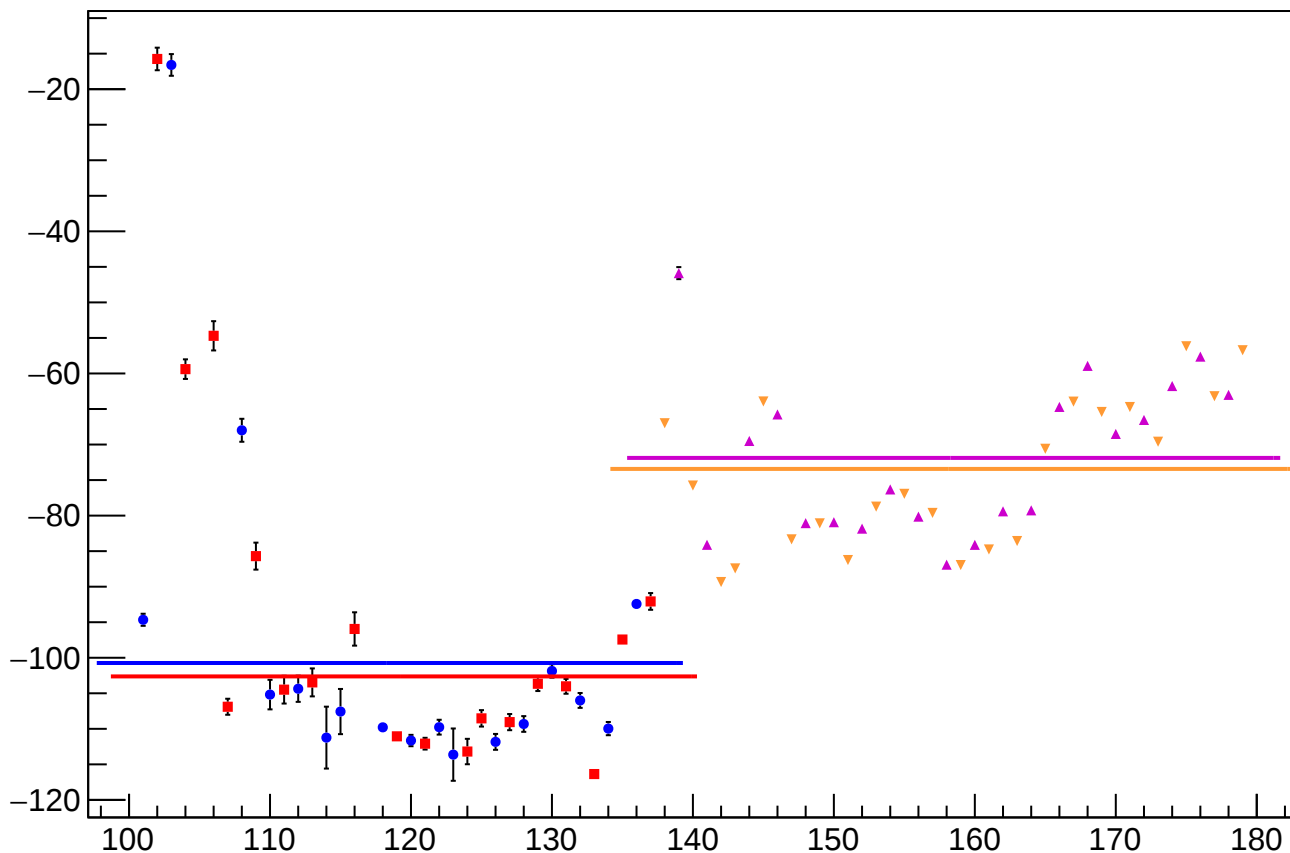
Right:  $9.054 \pm 0.295$   $\chi^2/\text{NDF}: 4627.2/34$

In:  $11.889 \pm 0.108$   $\chi^2/\text{NDF}: 10387.5/36$

Out:  $11.449 \pm 0.106$   $\chi^2/\text{NDF}: 10688.1/39$

All:  $11.666 \pm 0.076$   $\chi^2/\text{NDF}: 21084.1/76$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-100.736 \pm 0.248$   $\chi^2/\text{NDF}$ : 4520.6/16

Left Out:  $-73.429 \pm 0.095$   $\chi^2/\text{NDF}$ : 11793.3/21

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}$ : 5716.3/17

Left In:  $-71.881 \pm 0.097$   $\chi^2/\text{NDF}$ : 9846.2/19

Left:  $-72.677 \pm 0.068$   $\chi^2/\text{NDF}$ : 21769.5/41

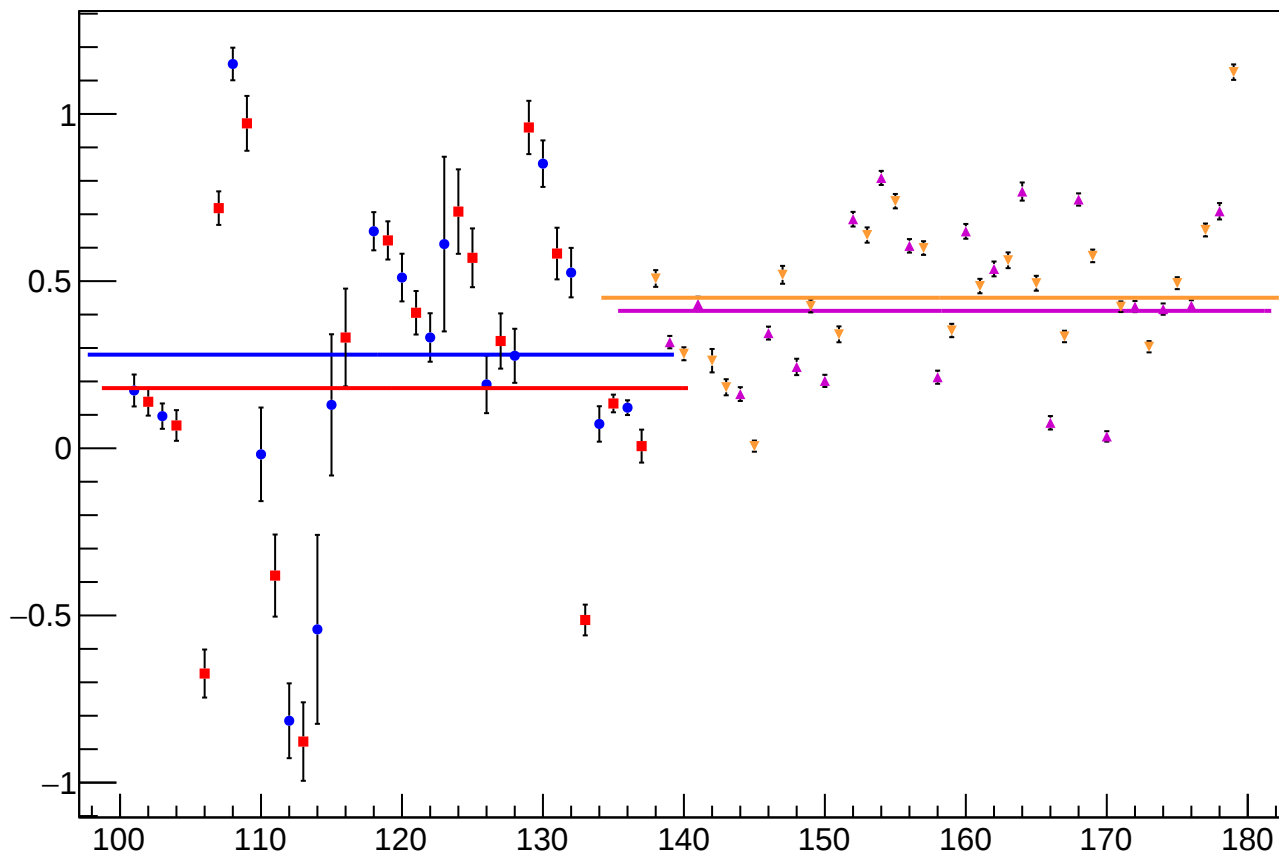
Right:  $-101.689 \pm 0.175$   $\chi^2/\text{NDF}$ : 10266.1/34

In:  $-75.724 \pm 0.091$   $\chi^2/\text{NDF}$ : 26072.5/36

Out:  $-77.189 \pm 0.088$   $\chi^2/\text{NDF}$ : 29770.5/39

All:  $-76.475 \pm 0.063$   $\chi^2/\text{NDF}$ : 55977.1/76

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.280 \pm 0.013$   $\chi^2/\text{NDF}$ : 656.4/16

Left Out:  $0.450 \pm 0.004$   $\chi^2/\text{NDF}$ : 2456.9/21

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

Left In:  $0.411 \pm 0.004$   $\chi^2/\text{NDF}$ : 2720.2/19

Left:  $0.431 \pm 0.003$   $\chi^2/\text{NDF}$ : 5217.1/41

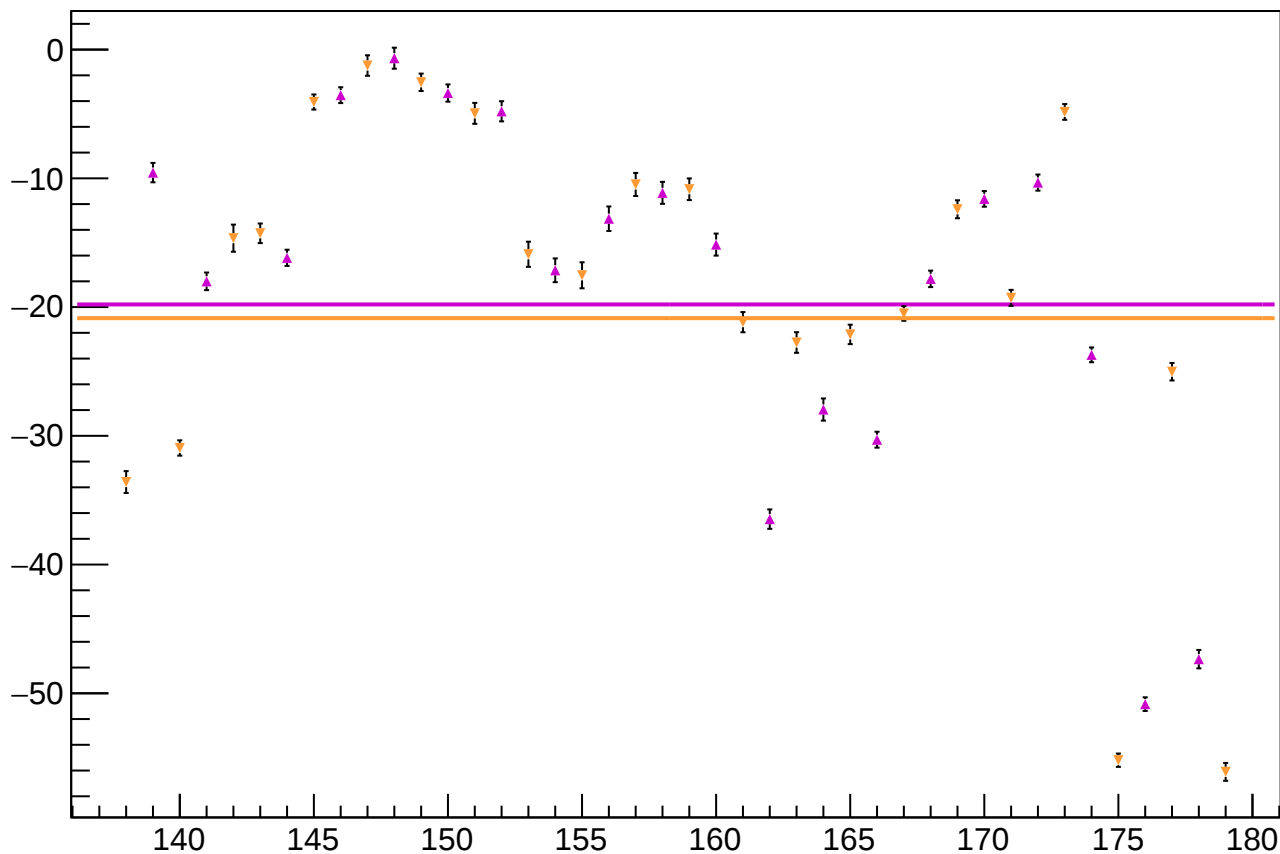
Right:  $0.230 \pm 0.010$   $\chi^2/\text{NDF}$ : 1621.0/34

In:  $0.398 \pm 0.004$   $\chi^2/\text{NDF}$ : 3461.9/36

Out:  $0.425 \pm 0.004$   $\chi^2/\text{NDF}$ : 3757.8/39

All:  $0.412 \pm 0.003$   $\chi^2/\text{NDF}$ : 7239.5/76

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -20.863+/-0.152  $\chi^2/\text{NDF}$ :11333.7/21

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

Left In: -19.795+/-0.155  $\chi^2/\text{NDF}$ :8865.3/19

Left: -20.339+/-0.109  $\chi^2/\text{NDF}$ : 20223.1/41

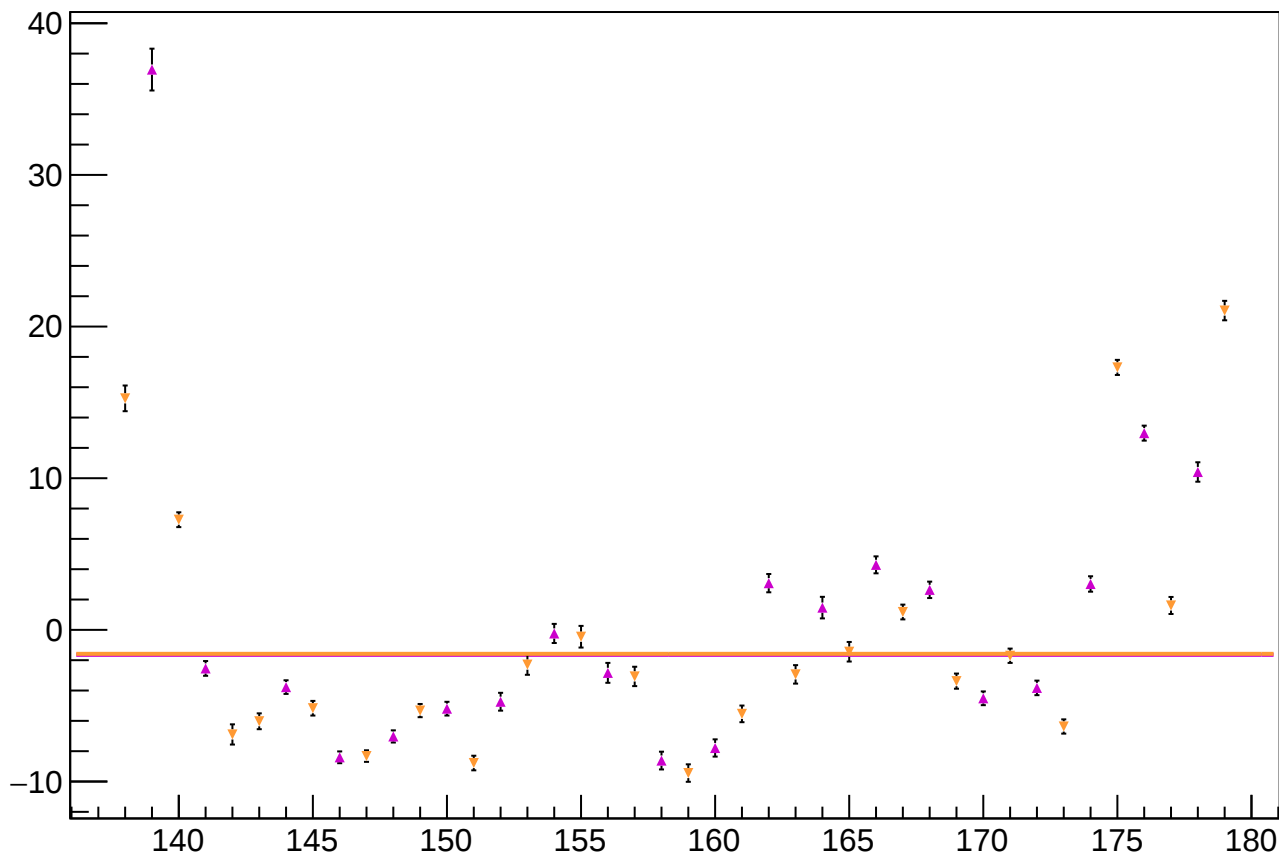
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.795+/-0.155  $\chi^2/\text{NDF}$ :8865.3/19

Out: -20.863+/-0.152  $\chi^2/\text{NDF}$ :11333.7/21

All: -20.339+/-0.109  $\chi^2/\text{NDF}$ : 20223.1/41

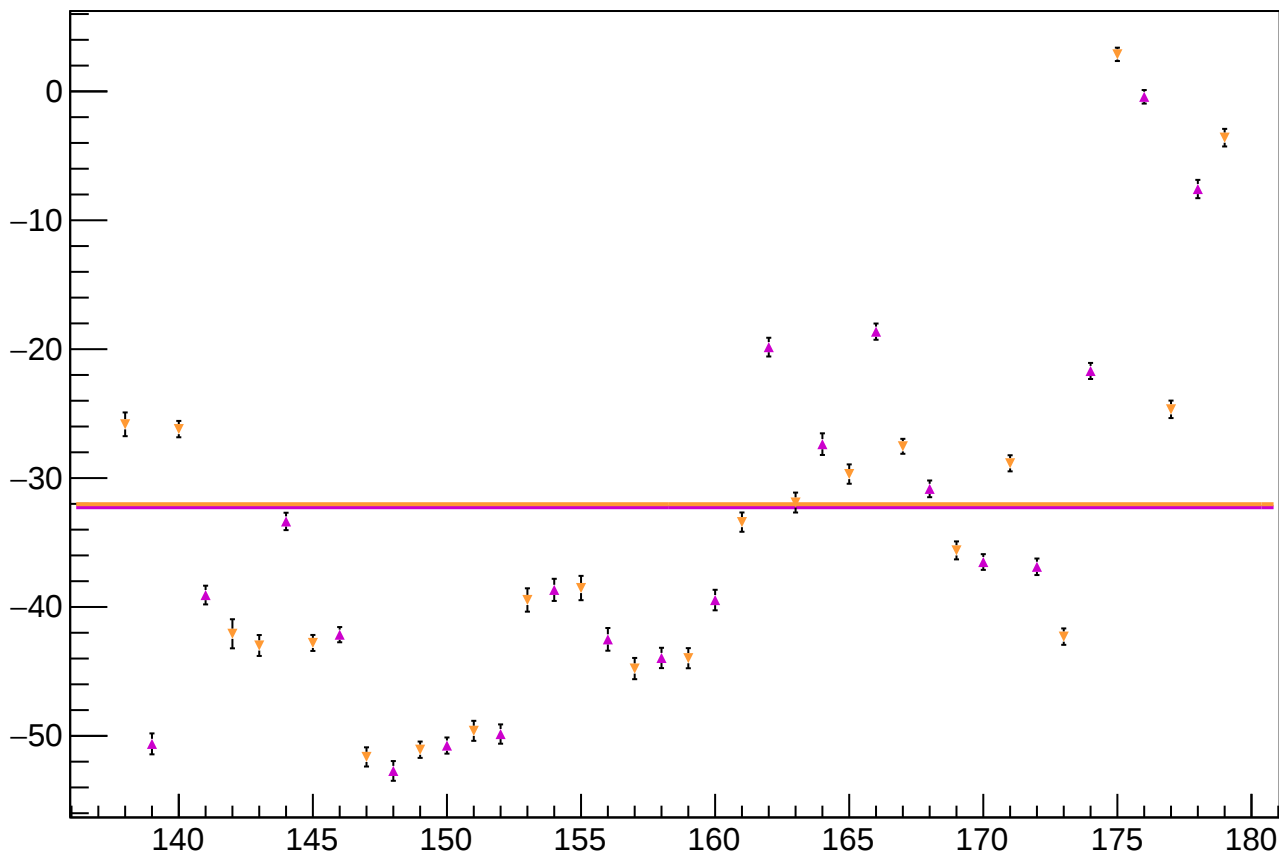
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.580+/-0.114  $\chi^2/\text{NDF}$ : 4640.2/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.647+/-0.118  $\chi^2/\text{NDF}$ : 3274.2/19

Left: -1.613+/-0.082  $\chi^2/\text{NDF}$ : 7914.6/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.647+/-0.118  $\chi^2/\text{NDF}$ : 3274.2/19  
 Out: -1.580+/-0.114  $\chi^2/\text{NDF}$ : 4640.2/21  
 All: -1.613+/-0.082  $\chi^2/\text{NDF}$ : 7914.6/41

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: -32.027+/-0.152  $\chi^2/\text{NDF}$ :10166.0/21

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

Left In: -32.261+/-0.155  $\chi^2/\text{NDF}$ :9577.9/19

Left: -32.142+/-0.108  $\chi^2/\text{NDF}$ : 19745.1/41

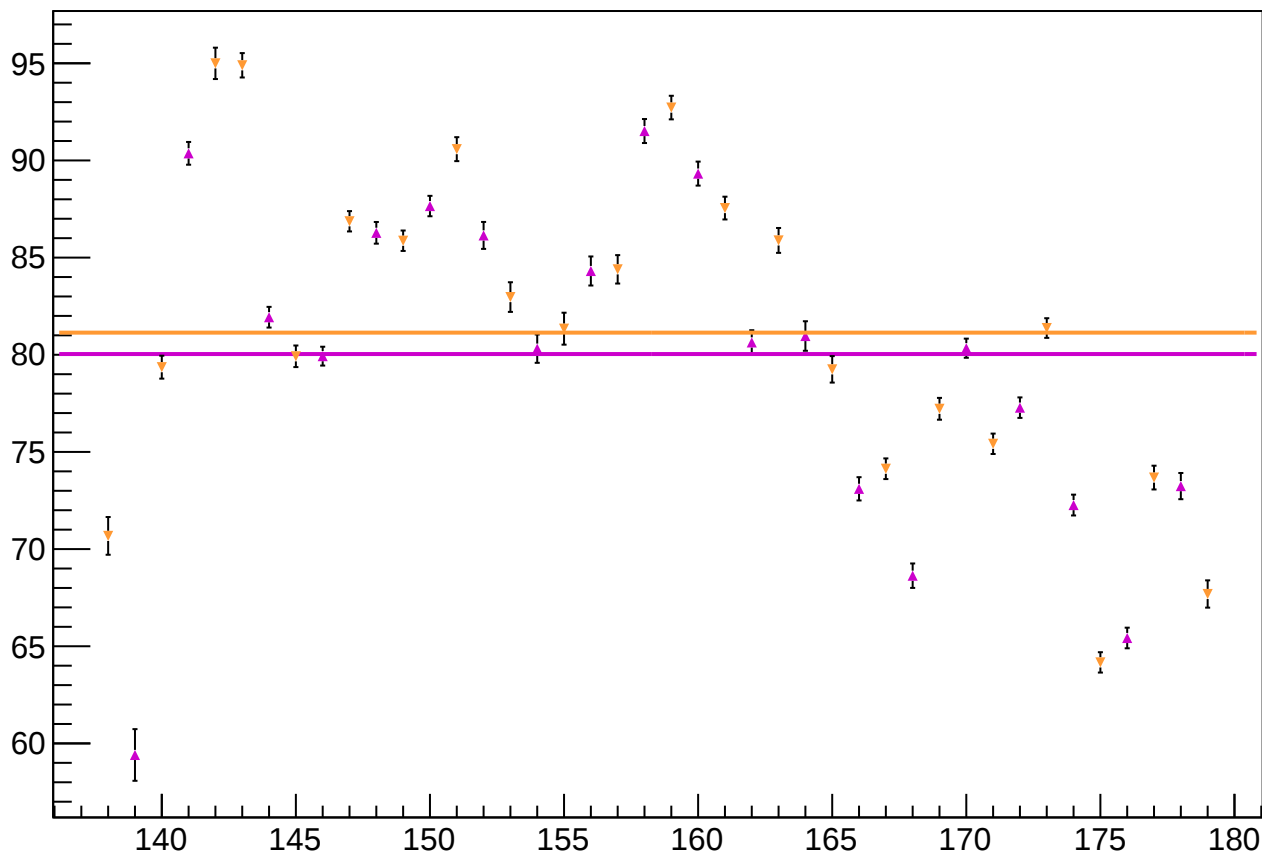
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -32.261+/-0.155  $\chi^2/\text{NDF}$ :9577.9/19

Out: -32.027+/-0.152  $\chi^2/\text{NDF}$ :10166.0/21

All: -32.142+/-0.108  $\chi^2/\text{NDF}$ : 19745.1/41

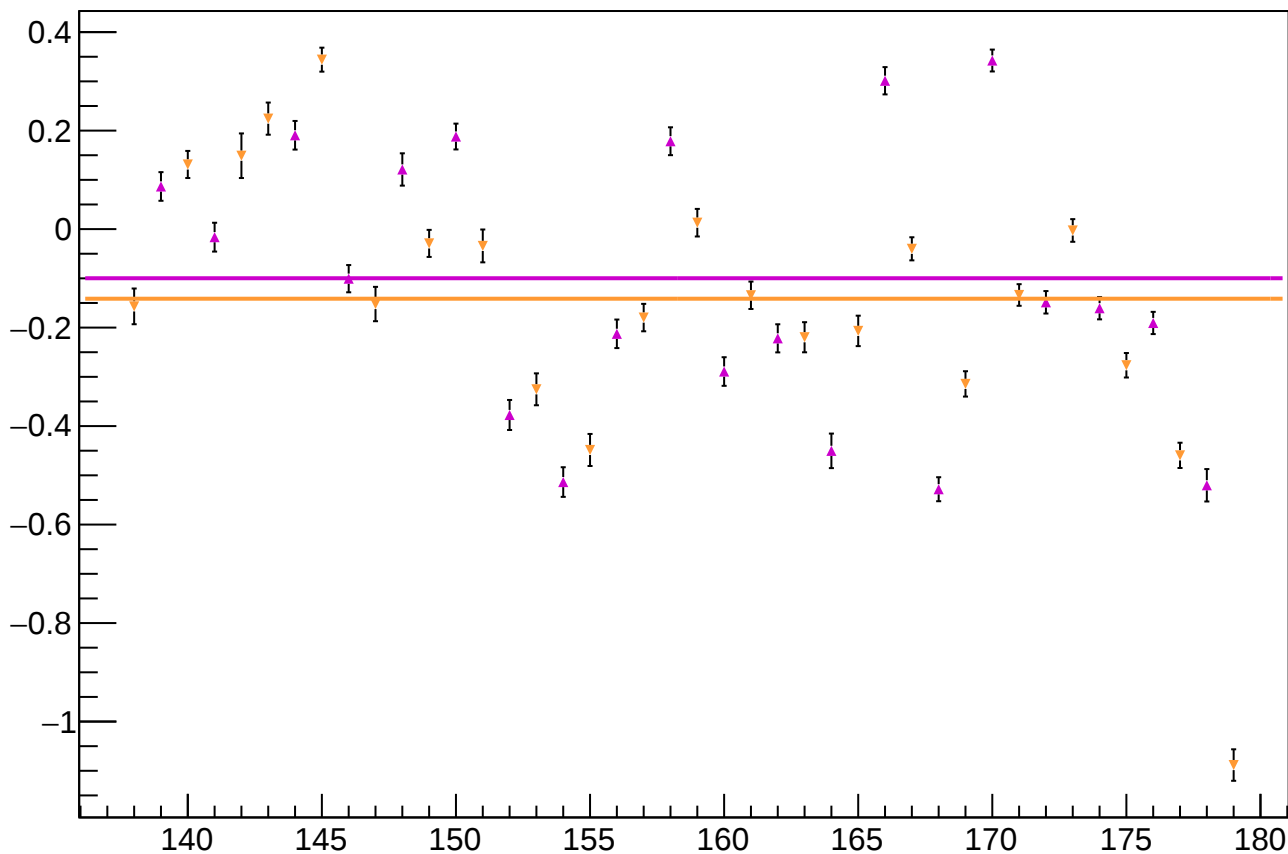
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 81.139+/-0.130  $\chi^2/\text{NDF}$ :3820.3/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 80.037+/-0.134  $\chi^2/\text{NDF}$ :3144.4/19

Left: 80.605+/-0.093  $\chi^2/\text{NDF}$ : 6999.5/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 80.037+/-0.134  $\chi^2/\text{NDF}$ :3144.4/19  
 Out: 81.139+/-0.130  $\chi^2/\text{NDF}$ :3820.3/21  
 All: 80.605+/-0.093  $\chi^2/\text{NDF}$ : 6999.5/41

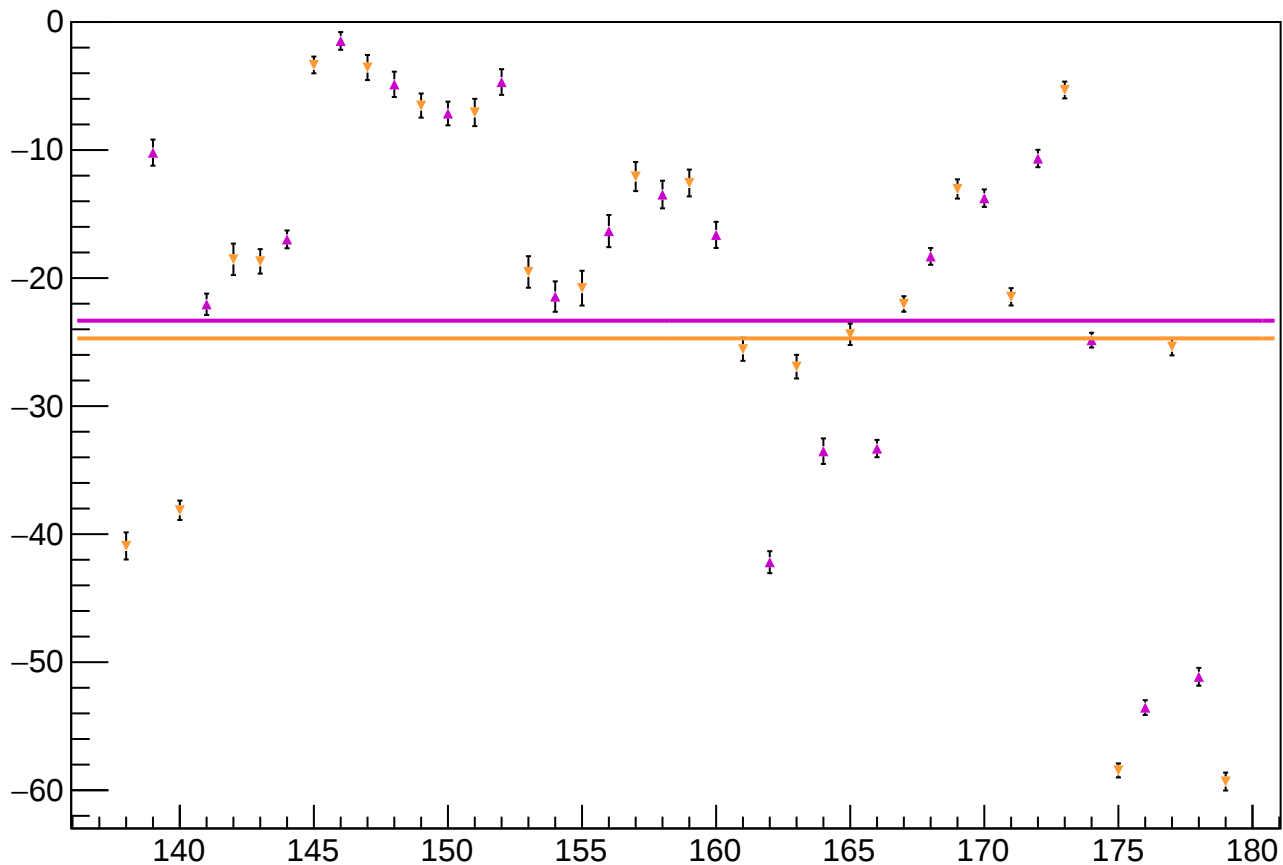
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.141 $\pm$ 0.006  $\chi^2$ /NDF:2015.2/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.100 $\pm$ 0.006  $\chi^2$ /NDF:1965.3/19

Left: -0.121 $\pm$ 0.004  $\chi^2$ /NDF: 4004.0/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.100 $\pm$ 0.006  $\chi^2$ /NDF:1965.3/19  
 Out: -0.141 $\pm$ 0.006  $\chi^2$ /NDF:2015.2/21  
 All: -0.121 $\pm$ 0.004  $\chi^2$ /NDF: 4004.0/41

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: -24.711+/-0.174  $\chi^2/\text{NDF}$ :10455.4/21

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

Left In: -23.327+/-0.176  $\chi^2/\text{NDF}$ :8140.8/19

Left: -24.028+/-0.124  $\chi^2/\text{NDF}$ : 18627.4/41

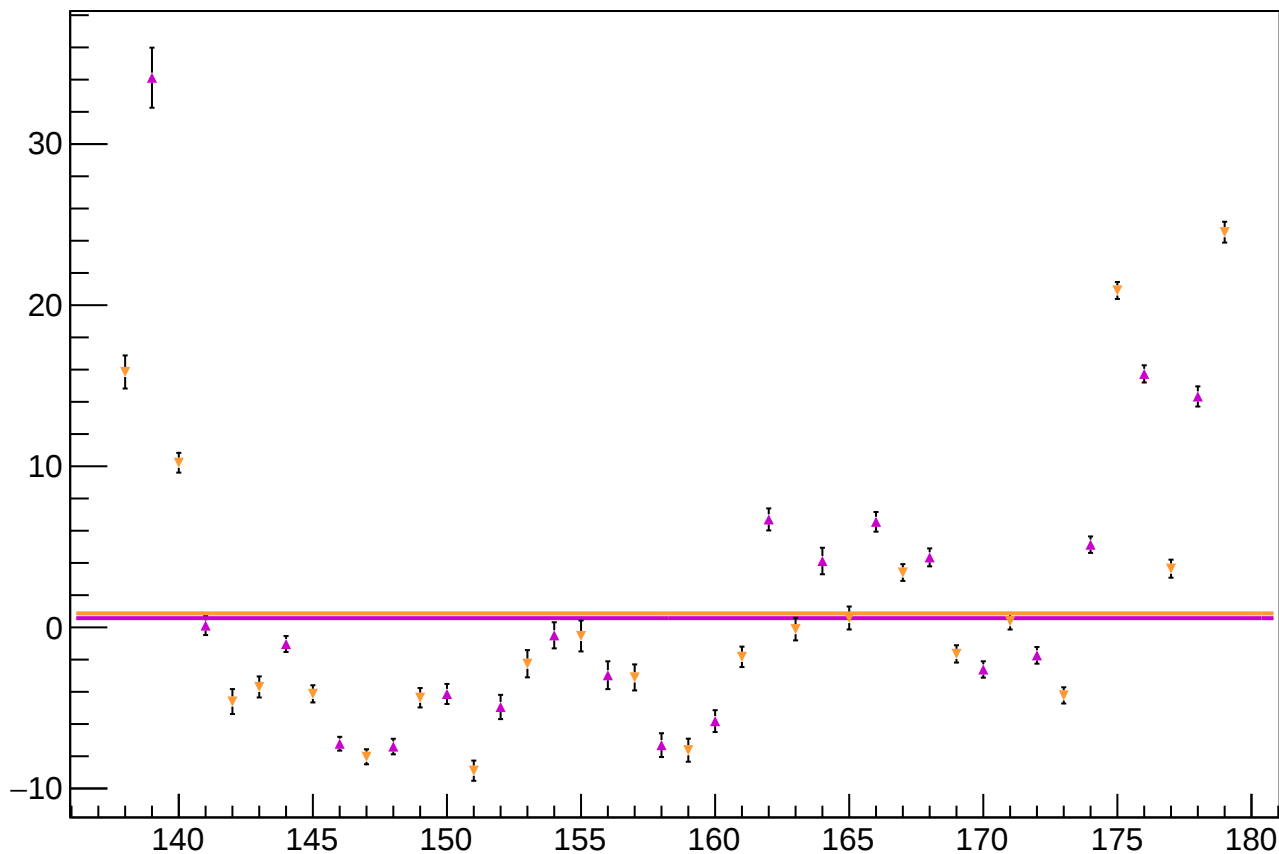
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -23.327+/-0.176  $\chi^2/\text{NDF}$ :8140.8/19

Out: -24.711+/-0.174  $\chi^2/\text{NDF}$ :10455.4/21

All: -24.028+/-0.124  $\chi^2/\text{NDF}$ : 18627.4/41

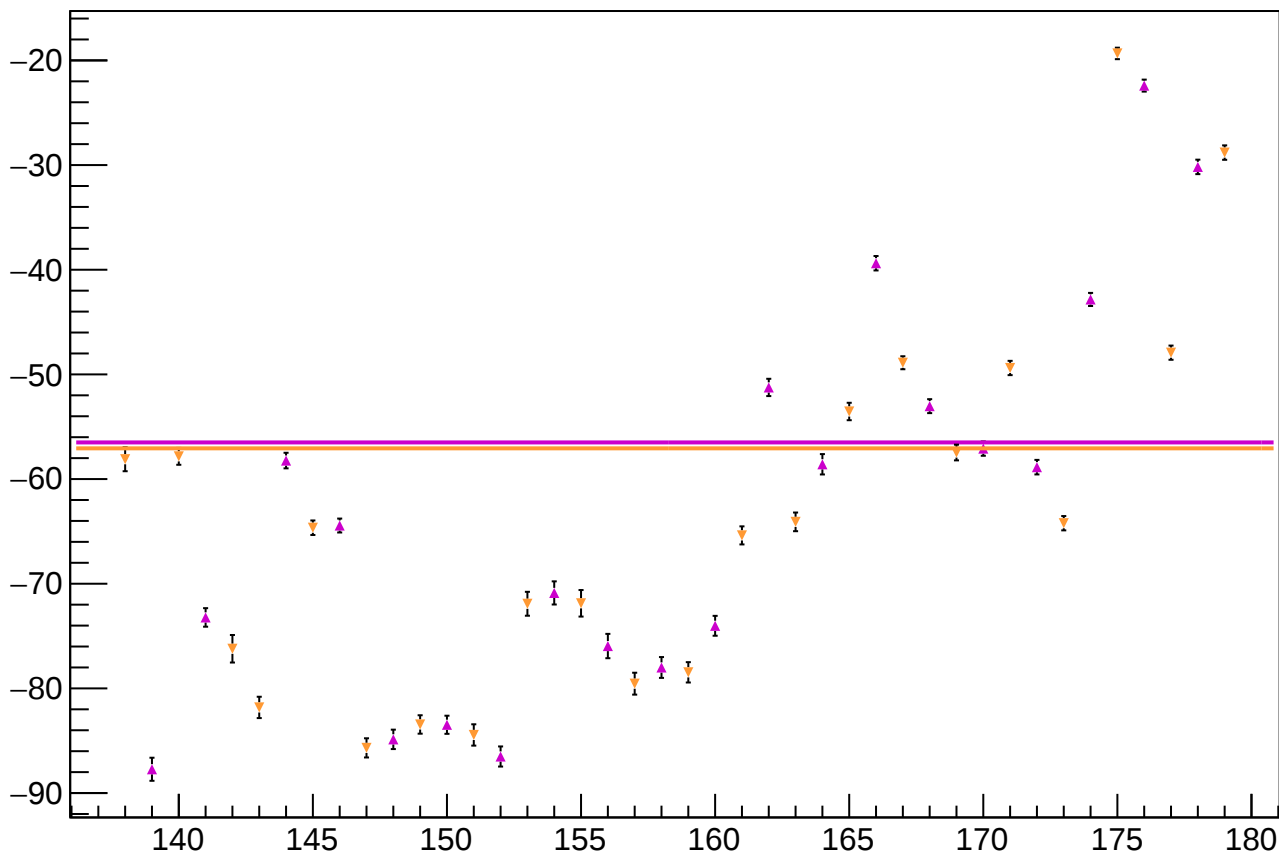
reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.870+/-0.132  $\chi^2/\text{NDF}$ :4472.0/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.572+/-0.135  $\chi^2/\text{NDF}$ :2936.3/19

Left: 0.724+/-0.094  $\chi^2/\text{NDF}$ : 7410.9/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.572+/-0.135  $\chi^2/\text{NDF}$ :2936.3/19  
 Out: 0.870+/-0.132  $\chi^2/\text{NDF}$ :4472.0/21  
 All: 0.724+/-0.094  $\chi^2/\text{NDF}$ : 7410.9/41

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: -57.066+/-0.174  $\chi^2/\text{NDF}$ :11918.7/21

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

Left In: -56.500+/-0.176  $\chi^2/\text{NDF}$ :11610.2/19

Left: -56.786+/-0.124  $\chi^2/\text{NDF}$ : 23534.1/41

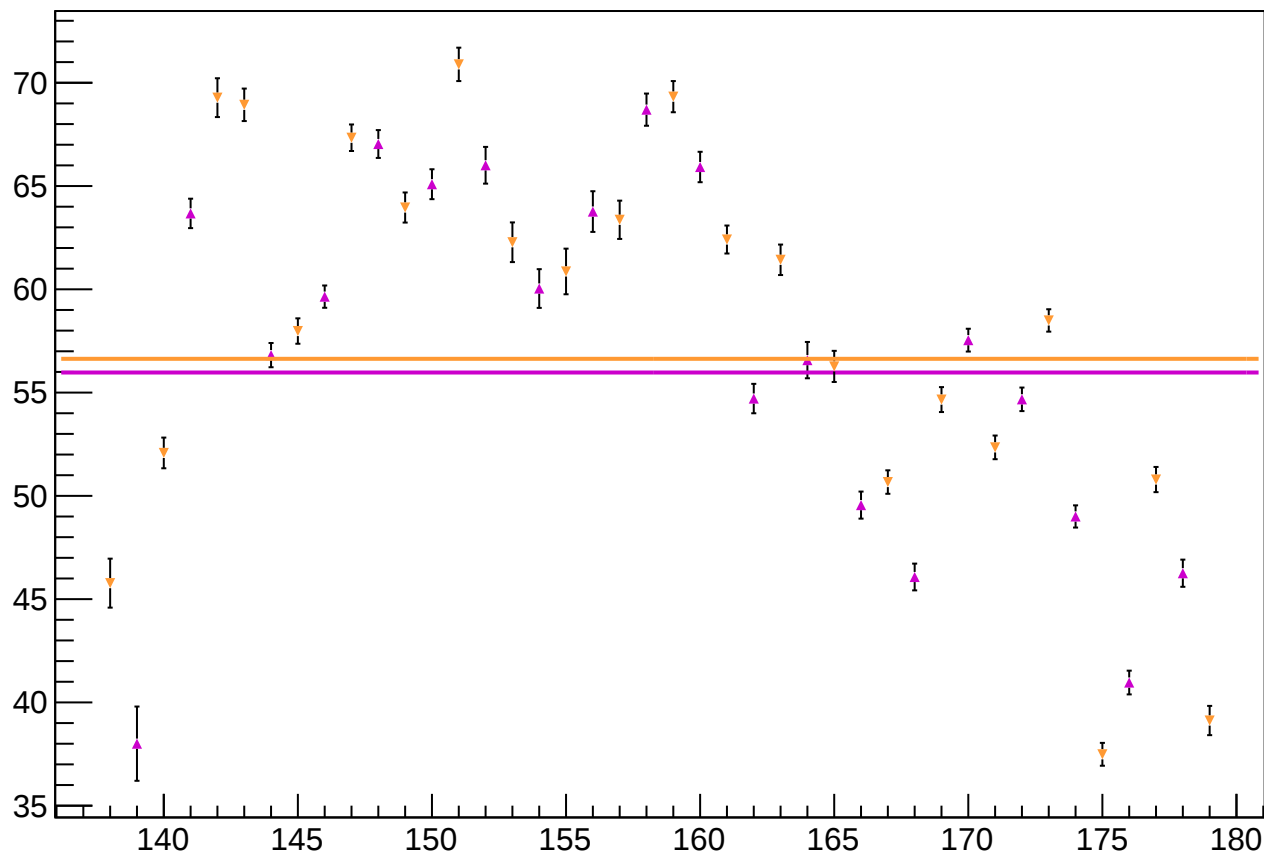
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -56.500+/-0.176  $\chi^2/\text{NDF}$ :11610.2/19

Out: -57.066+/-0.174  $\chi^2/\text{NDF}$ :11918.7/21

All: -56.786+/-0.124  $\chi^2/\text{NDF}$ : 23534.1/41

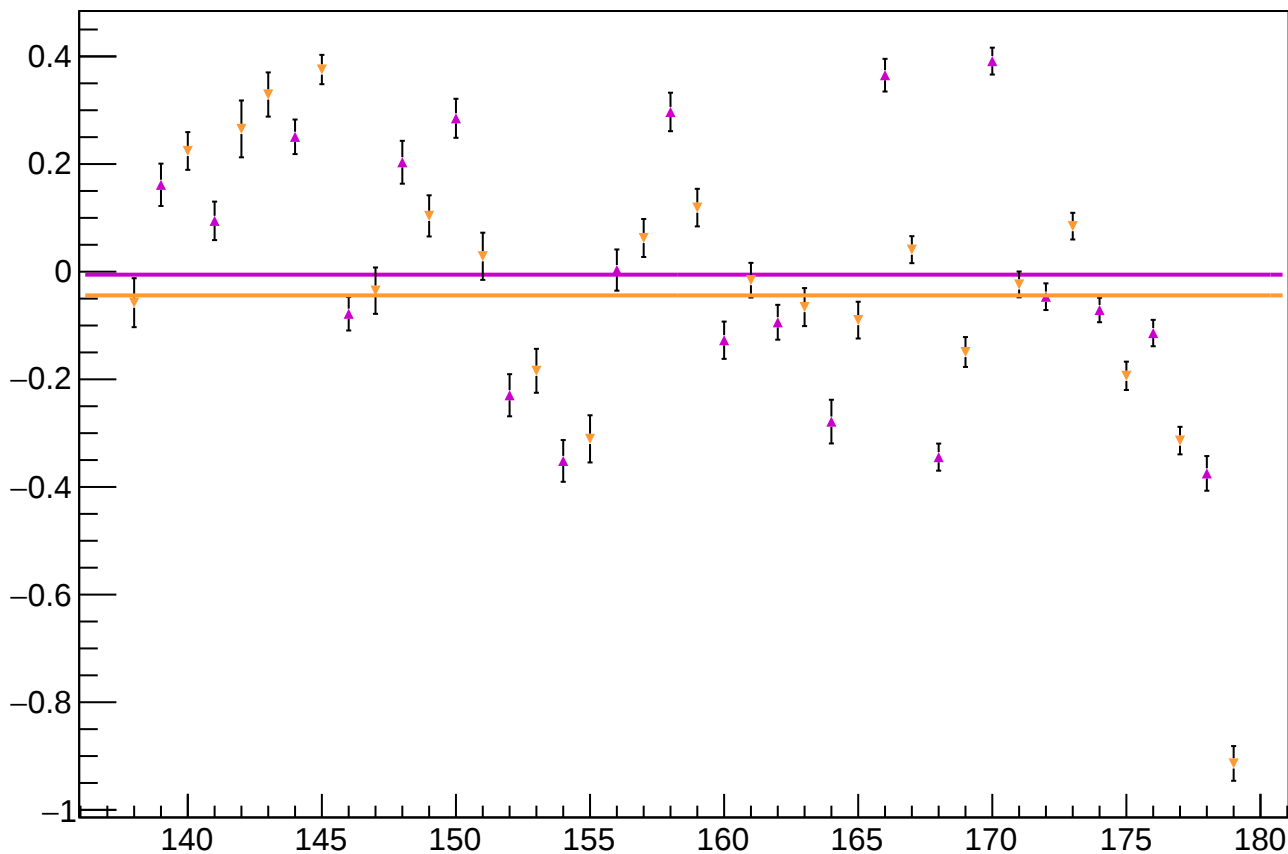
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 56.635 $\pm$ 0.150  $\chi^2$ /NDF:3830.5/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 55.972 $\pm$ 0.153  $\chi^2$ /NDF:2765.3/19

Left: 56.311 $\pm$ 0.107  $\chi^2$ /NDF: 6605.4/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 55.972 $\pm$ 0.153  $\chi^2$ /NDF:2765.3/19  
 Out: 56.635 $\pm$ 0.150  $\chi^2$ /NDF:3830.5/21  
 All: 56.311 $\pm$ 0.107  $\chi^2$ /NDF: 6605.4/41

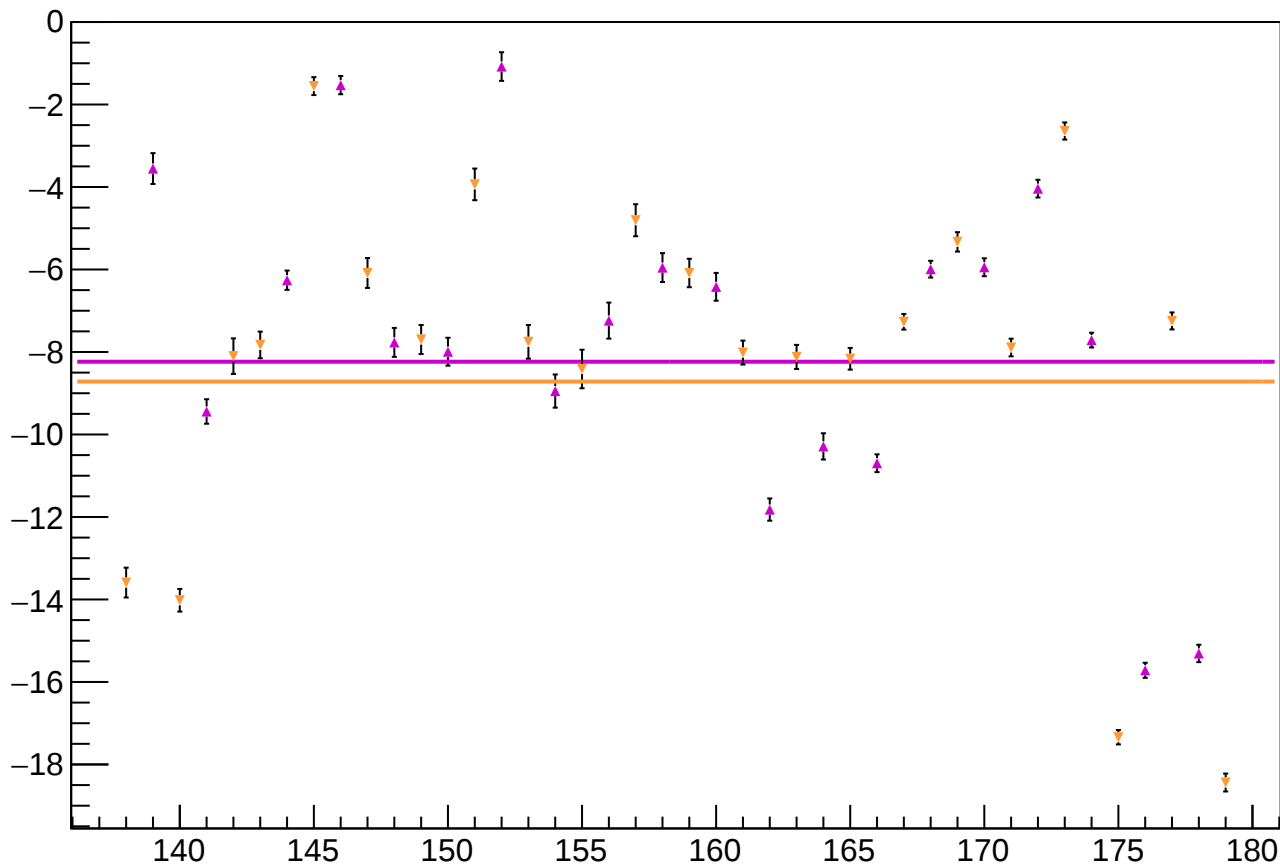
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.044+/-0.007  $\chi^2/\text{NDF}$ :1436.9/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.006+/-0.007  $\chi^2/\text{NDF}$ :1180.2/19

Left: -0.025+/-0.005  $\chi^2/\text{NDF}$ : 2632.4/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.006+/-0.007  $\chi^2/\text{NDF}$ :1180.2/19  
 Out: -0.044+/-0.007  $\chi^2/\text{NDF}$ :1436.9/21  
 All: -0.025+/-0.005  $\chi^2/\text{NDF}$ : 2632.4/41

reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



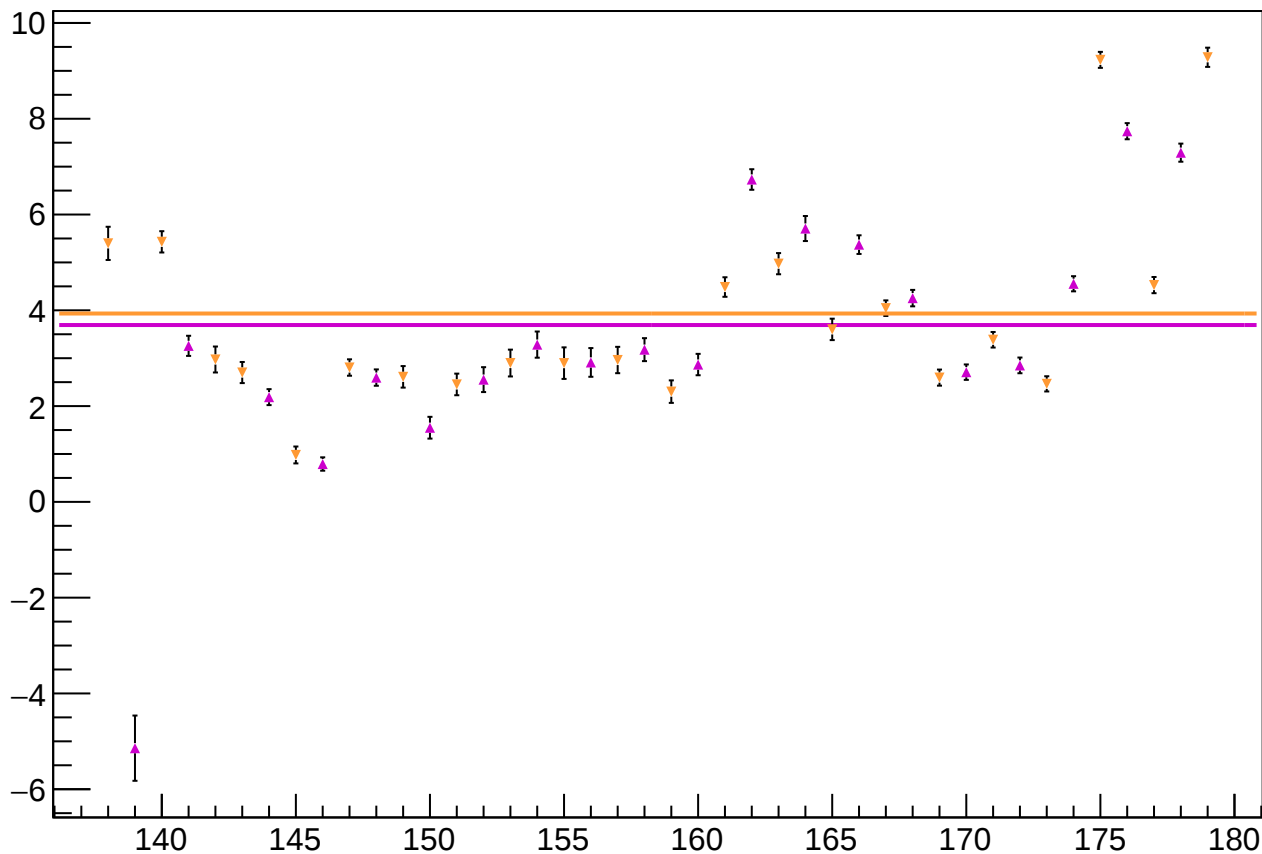
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -8.717+/-0.057  $\chi^2/\text{NDF}$ : 7698.4/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.236+/-0.057  $\chi^2/\text{NDF}$ : 5442.7/19

Left: -8.479+/-0.040  $\chi^2/\text{NDF}$ : 13176.9/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.236+/-0.057  $\chi^2/\text{NDF}$ : 5442.7/19  
 Out: -8.717+/-0.057  $\chi^2/\text{NDF}$ : 7698.4/21

All: -8.479+/-0.040  $\chi^2/\text{NDF}$ : 13176.9/41

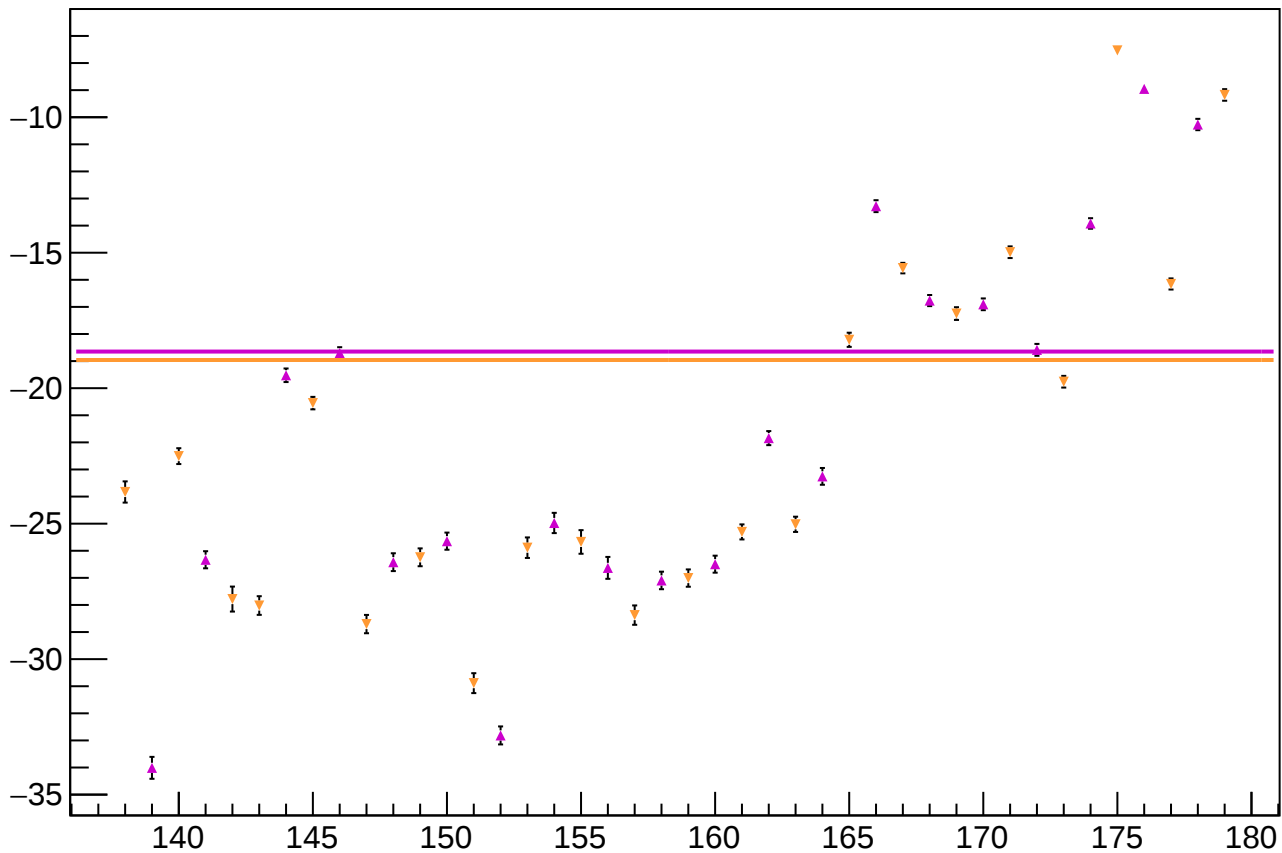
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.933+/-0.043  $\chi^2/\text{NDF}$ :2517.0/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 3.693+/-0.044  $\chi^2/\text{NDF}$ :2242.6/19

Left: 3.815+/-0.031  $\chi^2/\text{NDF}$ : 4774.8/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 3.693+/-0.044  $\chi^2/\text{NDF}$ :2242.6/19  
 Out: 3.933+/-0.043  $\chi^2/\text{NDF}$ :2517.0/21  
 All: 3.815+/-0.031  $\chi^2/\text{NDF}$ : 4774.8/41

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: -18.960+/-0.057  $\chi^2/\text{NDF}$ :13957.3/21

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

Left In: -18.648+/-0.057  $\chi^2/\text{NDF}$ :13073.1/19

Left: -18.805+/-0.040  $\chi^2/\text{NDF}$ : 27045.4/41

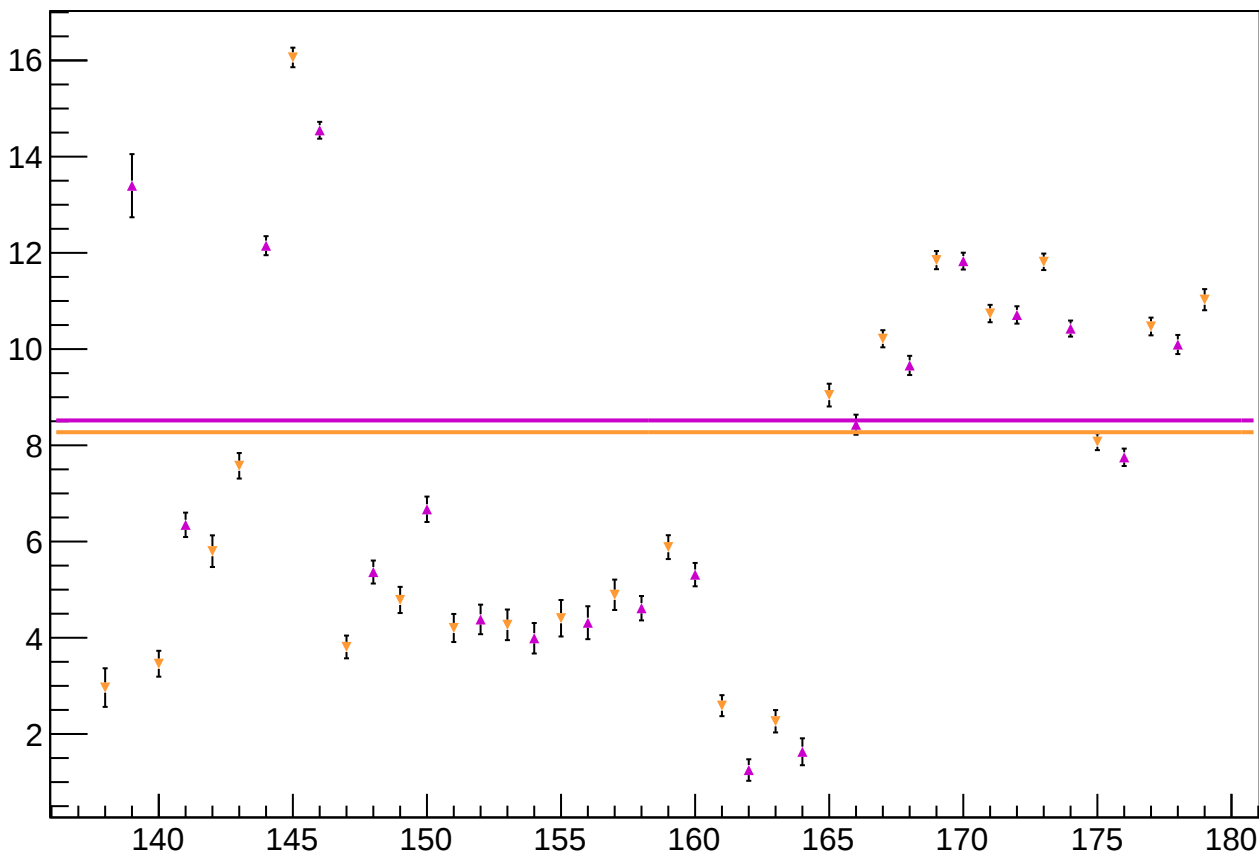
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.648+/-0.057  $\chi^2/\text{NDF}$ :13073.1/19

Out: -18.960+/-0.057  $\chi^2/\text{NDF}$ :13957.3/21

All: -18.805+/-0.040  $\chi^2/\text{NDF}$ : 27045.4/41

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.272+/-0.049     $\chi^2/\text{NDF}$ : 5962.8/21  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.517+/-0.050     $\chi^2/\text{NDF}$ : 5240.4/19

Left: 8.393+/-0.035     $\chi^2/\text{NDF}$ : 11215.5/41

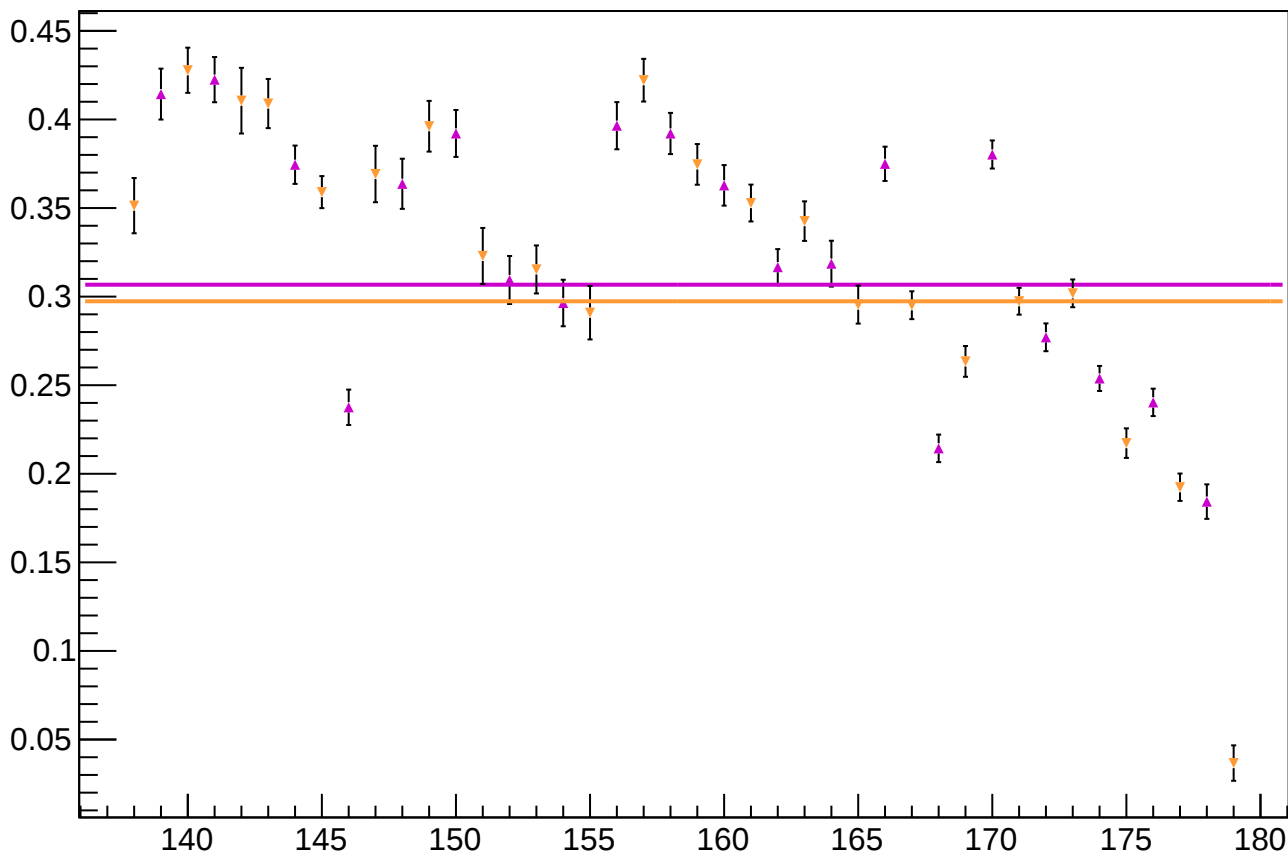
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 8.517+/-0.050     $\chi^2/\text{NDF}$ : 5240.4/19

Out: 8.272+/-0.049     $\chi^2/\text{NDF}$ : 5962.8/21

All: 8.393+/-0.035     $\chi^2/\text{NDF}$ : 11215.5/41

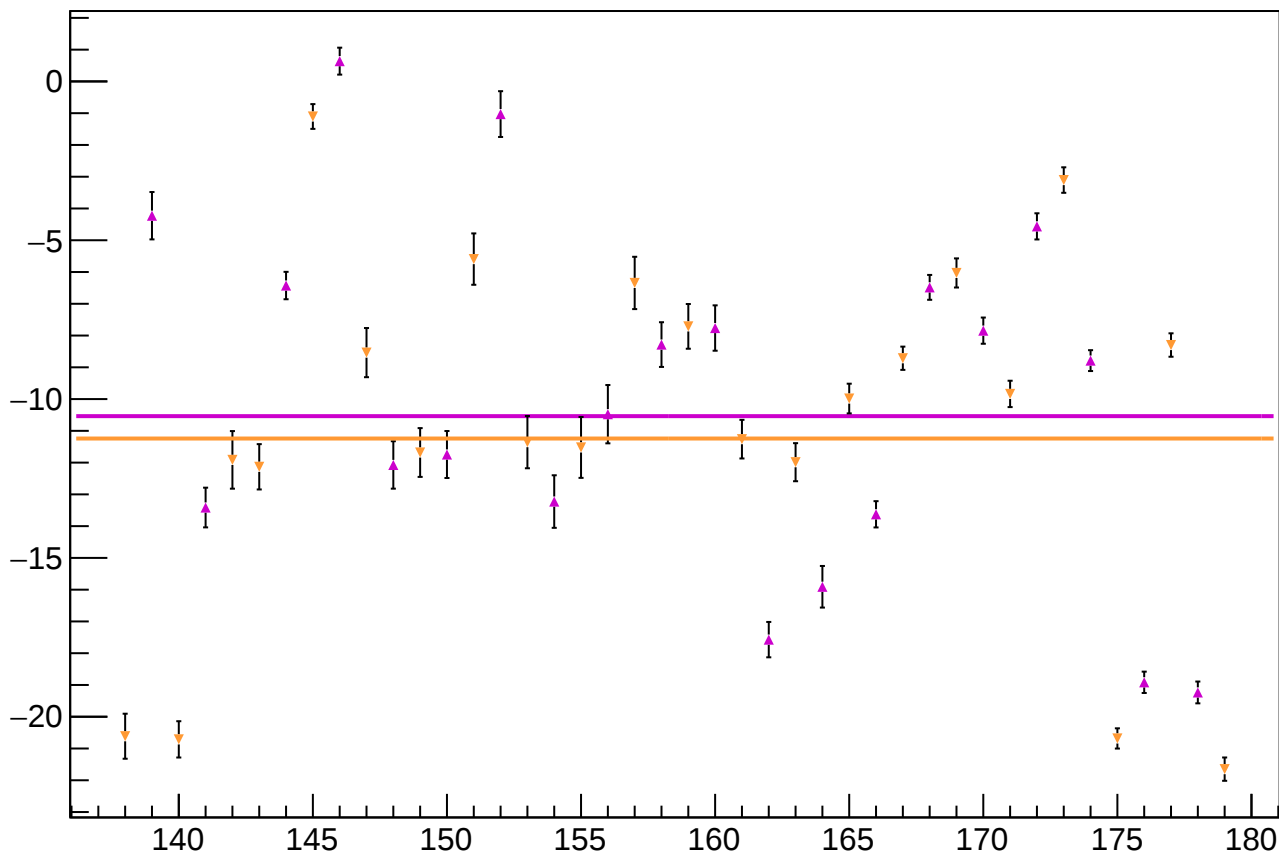
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.297 $\pm$ 0.002  $\chi^2$ /NDF:1506.6/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.307 $\pm$ 0.002  $\chi^2$ /NDF:988.3/19

Left: 0.302 $\pm$ 0.002  $\chi^2$ /NDF: 2503.5/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.307 $\pm$ 0.002  $\chi^2$ /NDF:988.3/19  
 Out: 0.297 $\pm$ 0.002  $\chi^2$ /NDF:1506.6/21  
 All: 0.302 $\pm$ 0.002  $\chi^2$ /NDF: 2503.5/41

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: -11.242+/-0.109  $\chi^2/\text{NDF}$ :3603.4/21

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

Left In: -10.537+/-0.109  $\chi^2/\text{NDF}$ :3029.4/19

Left: -10.892+/-0.077  $\chi^2/\text{NDF}$ : 6653.7/41

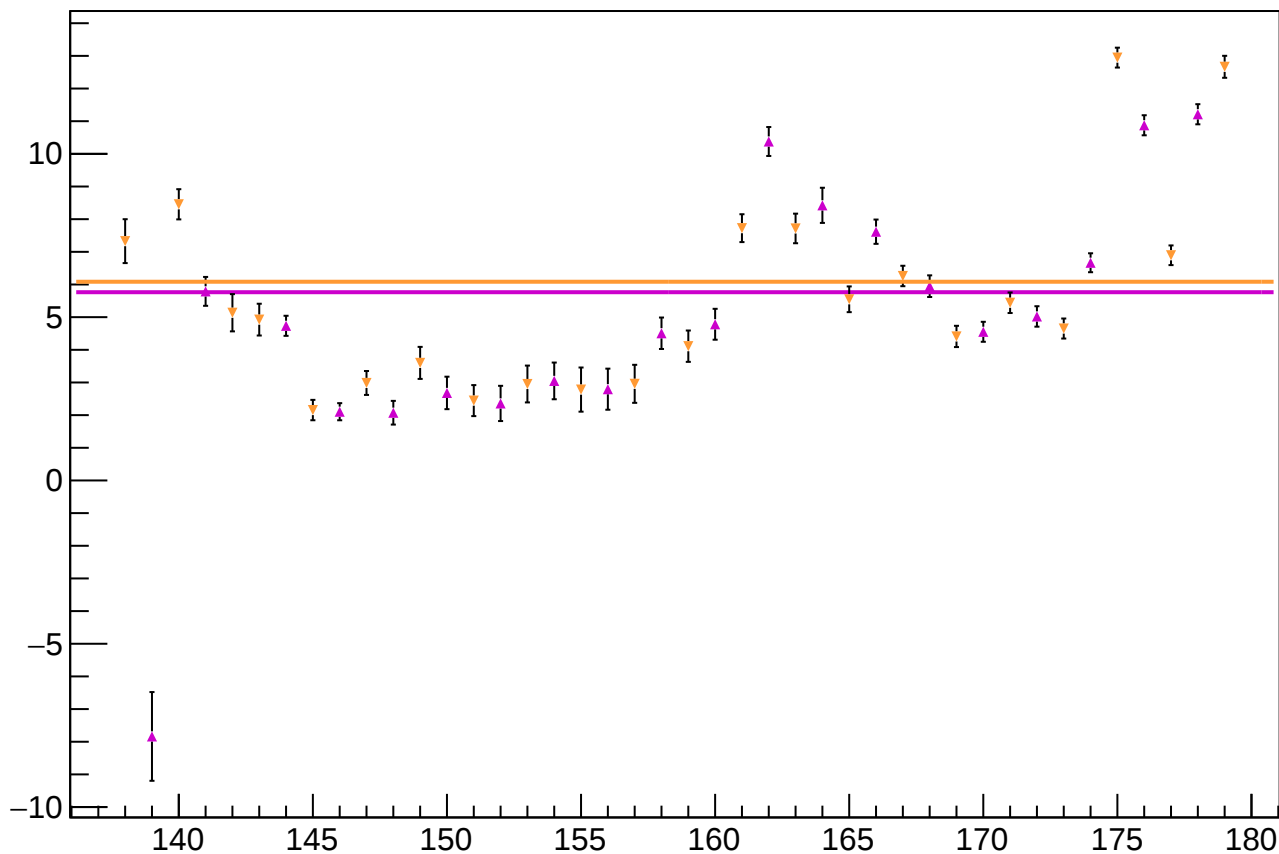
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -10.537+/-0.109  $\chi^2/\text{NDF}$ :3029.4/19

Out: -11.242+/-0.109  $\chi^2/\text{NDF}$ :3603.4/21

All: -10.892+/-0.077  $\chi^2/\text{NDF}$ : 6653.7/41

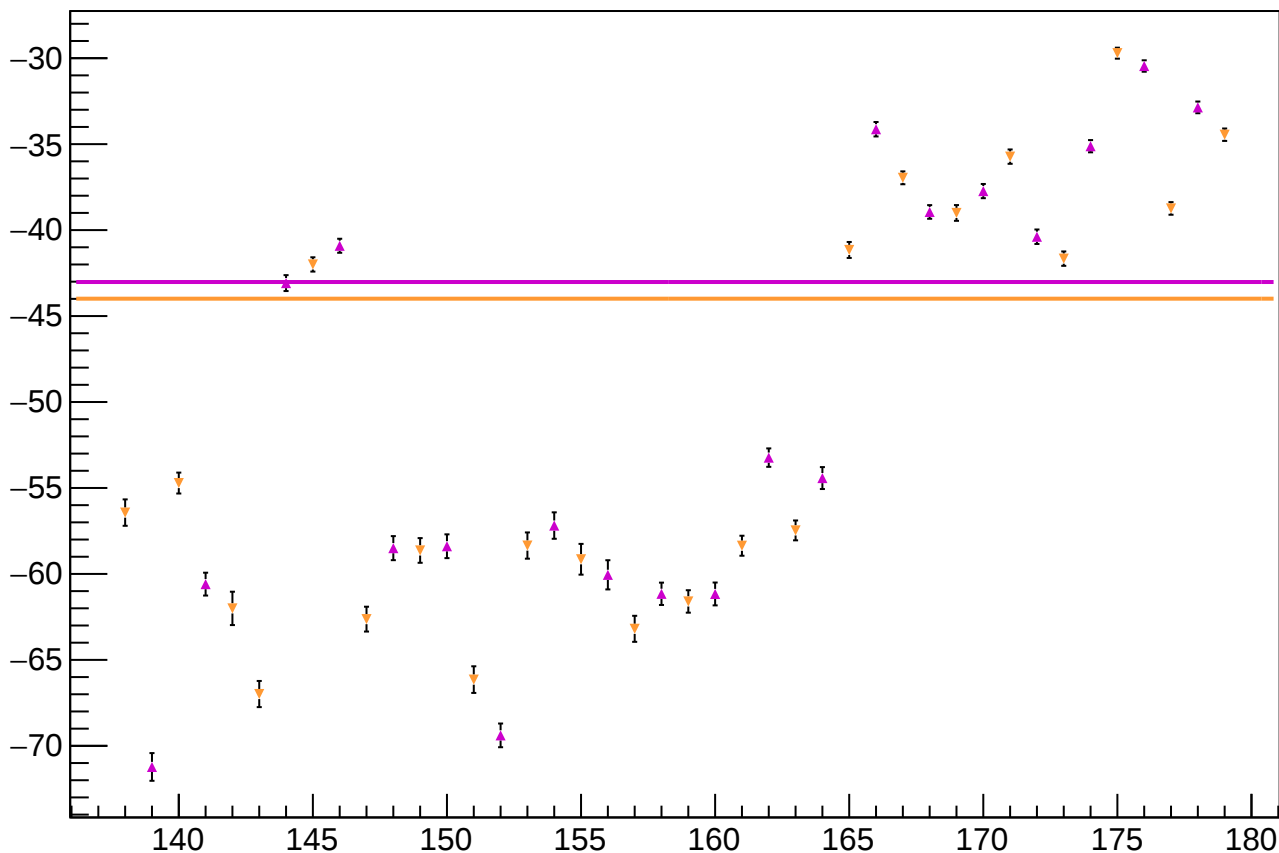
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.085 $\pm$ 0.084  $\chi^2/\text{NDF}$ :1432.9/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.764 $\pm$ 0.085  $\chi^2/\text{NDF}$ :1323.8/19

Left: 5.925 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 2763.9/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.764 $\pm$ 0.085  $\chi^2/\text{NDF}$ :1323.8/19  
 Out: 6.085 $\pm$ 0.084  $\chi^2/\text{NDF}$ :1432.9/21  
 All: 5.925 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 2763.9/41

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: -43.989+/-0.109  $\chi^2/\text{NDF}$ :10748.3/21

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

Left In: -43.020+/-0.109  $\chi^2/\text{NDF}$ :10906.6/19

Left: -43.507+/-0.077  $\chi^2/\text{NDF}$ : 21694.4/41

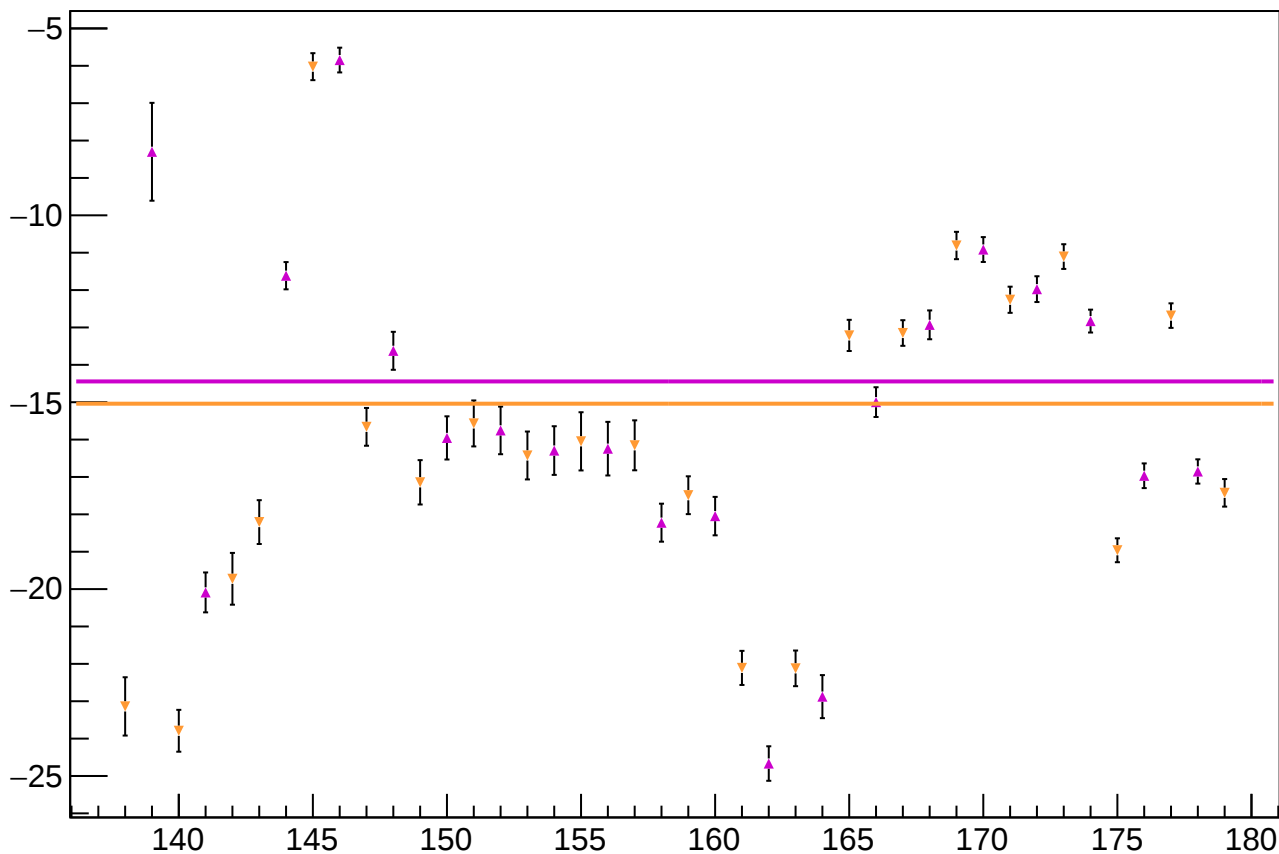
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -43.020+/-0.109  $\chi^2/\text{NDF}$ :10906.6/19

Out: -43.989+/-0.109  $\chi^2/\text{NDF}$ :10748.3/21

All: -43.507+/-0.077  $\chi^2/\text{NDF}$ : 21694.4/41

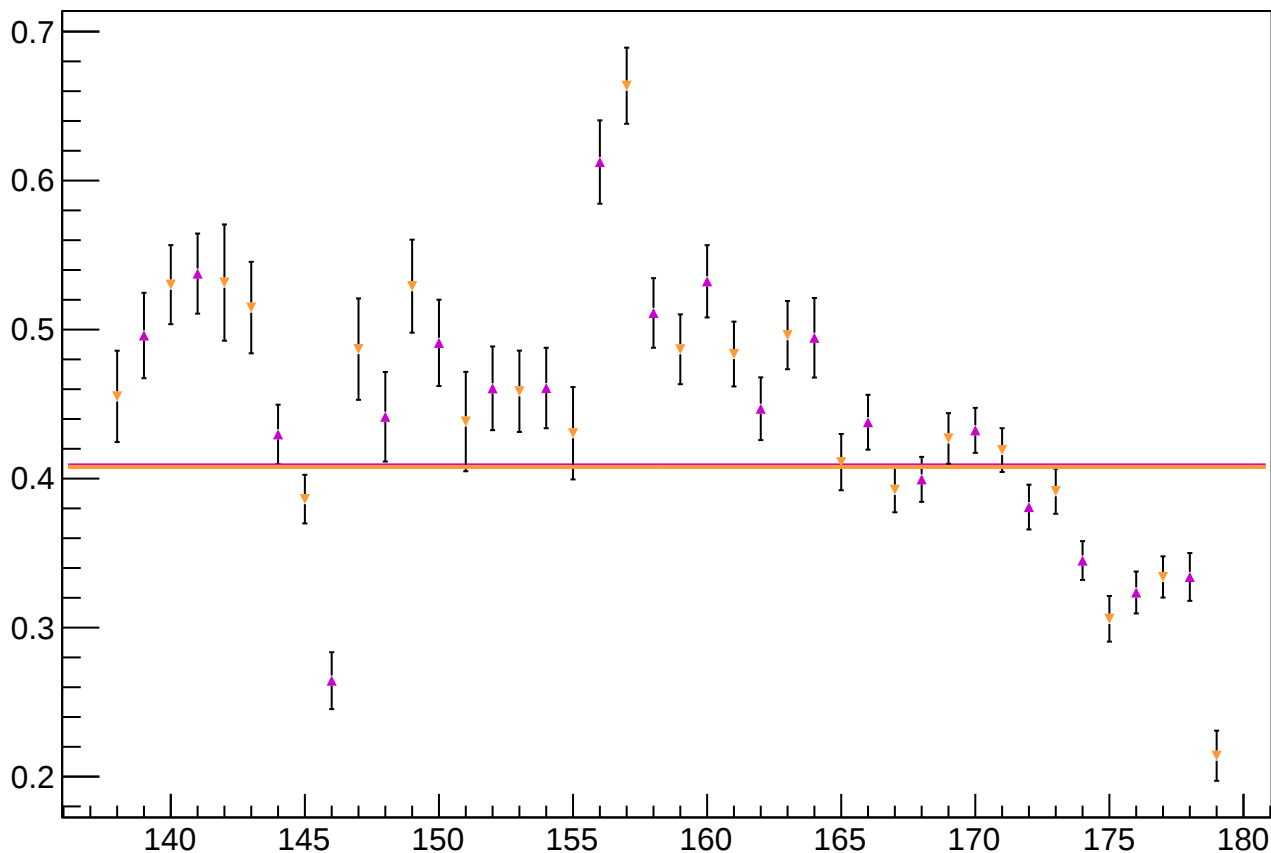
reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -15.040+/-0.095  $\chi^2/\text{NDF}$ :2191.2/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -14.444+/-0.096  $\chi^2/\text{NDF}$ :2027.2/19

Left: -14.745+/-0.067  $\chi^2/\text{NDF}$ : 4238.0/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -14.444+/-0.096  $\chi^2/\text{NDF}$ :2027.2/19  
 Out: -15.040+/-0.095  $\chi^2/\text{NDF}$ :2191.2/21  
 All: -14.745+/-0.067  $\chi^2/\text{NDF}$ : 4238.0/41

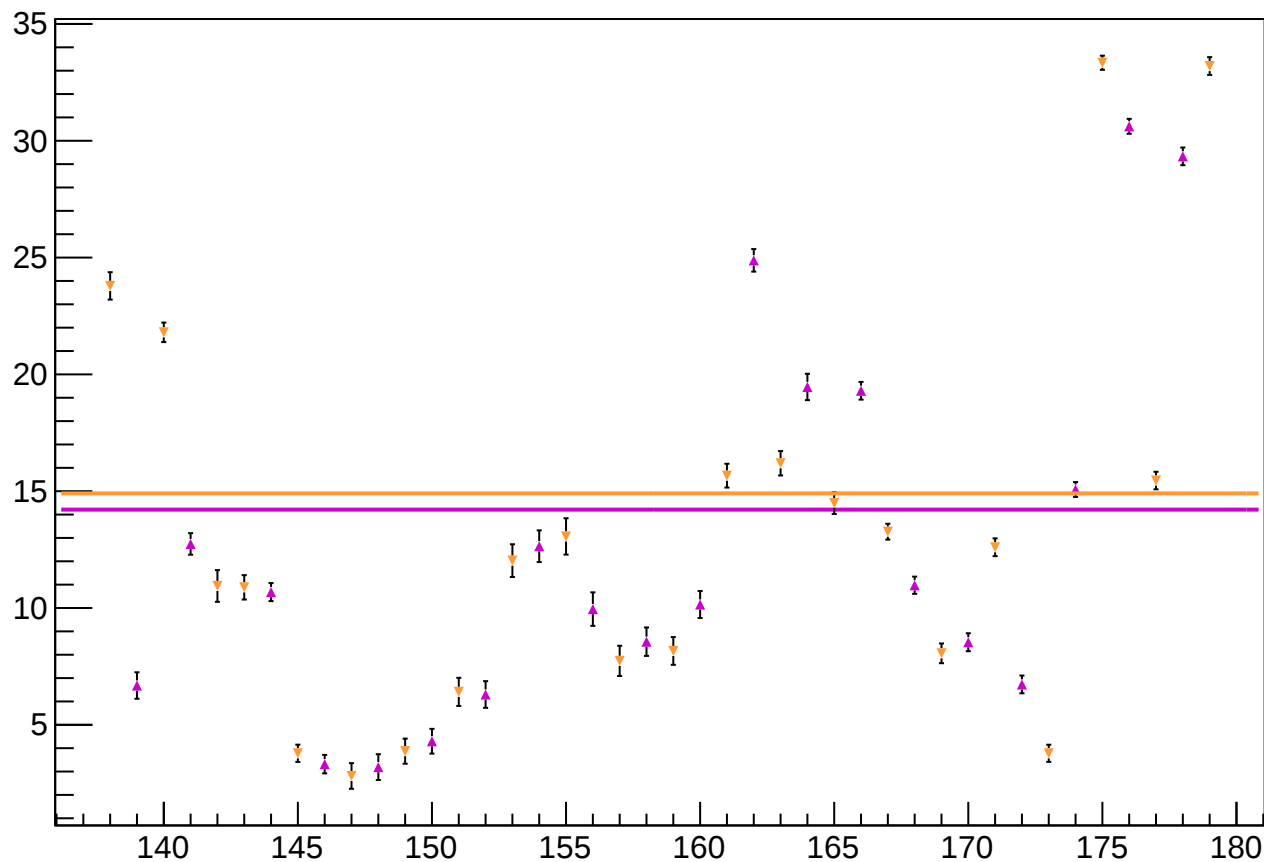
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.408 $\pm$ 0.004  $\chi^2$ /NDF:421.2/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.409 $\pm$ 0.004  $\chi^2$ /NDF:310.0/19

Left: 0.408 $\pm$ 0.003  $\chi^2$ /NDF: 731.2/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.409 $\pm$ 0.004  $\chi^2$ /NDF:310.0/19  
 Out: 0.408 $\pm$ 0.004  $\chi^2$ /NDF:421.2/21  
 All: 0.408 $\pm$ 0.003  $\chi^2$ /NDF: 731.2/41

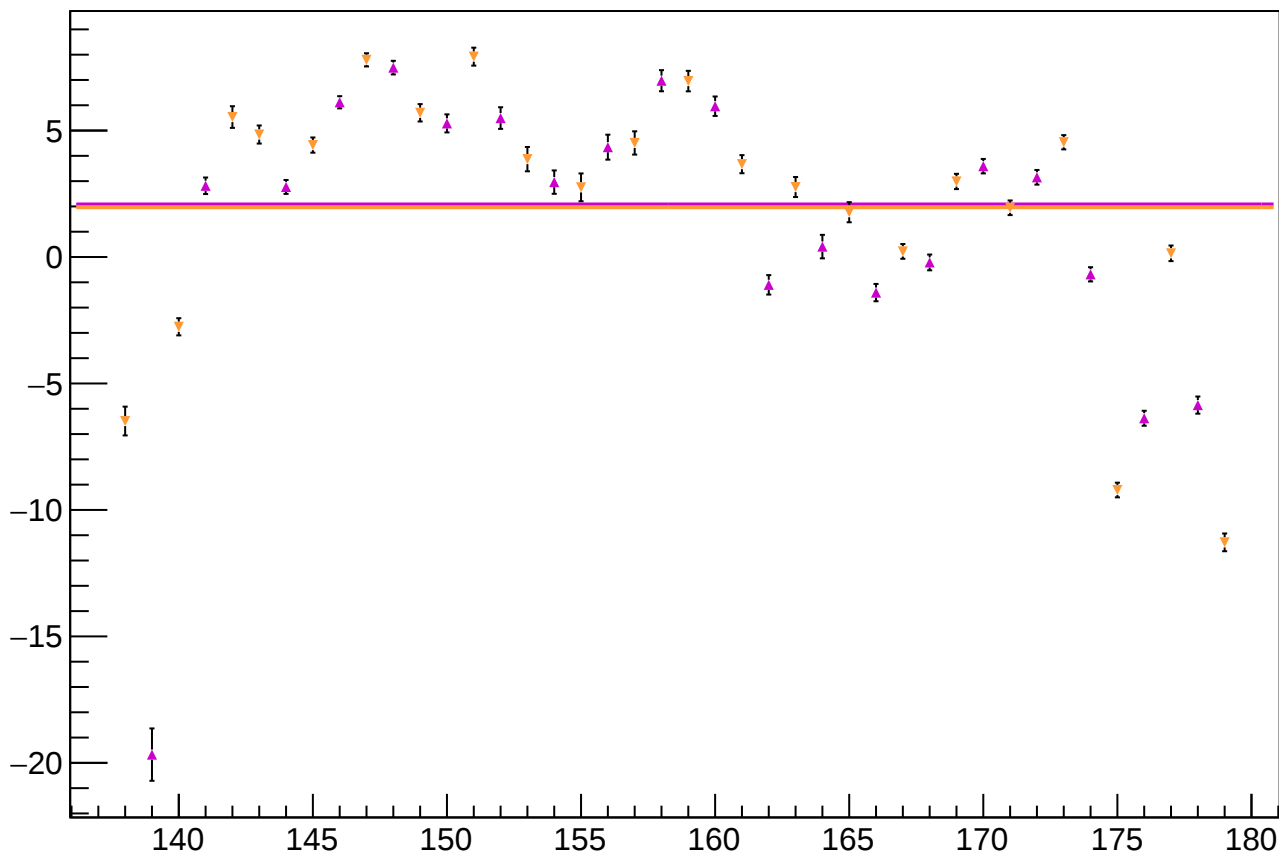
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 14.906±/-0.097  $\chi^2/\text{NDF}$ :10153.1/21  
 Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 14.212±/-0.099  $\chi^2/\text{NDF}$ :7819.6/19

Left: 14.564±/-0.069  $\chi^2/\text{NDF}$ : 17997.9/41  
 Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 14.212±/-0.099  $\chi^2/\text{NDF}$ :7819.6/19  
 Out: 14.906±/-0.097  $\chi^2/\text{NDF}$ :10153.1/21  
 All: 14.564±/-0.069  $\chi^2/\text{NDF}$ : 17997.9/41

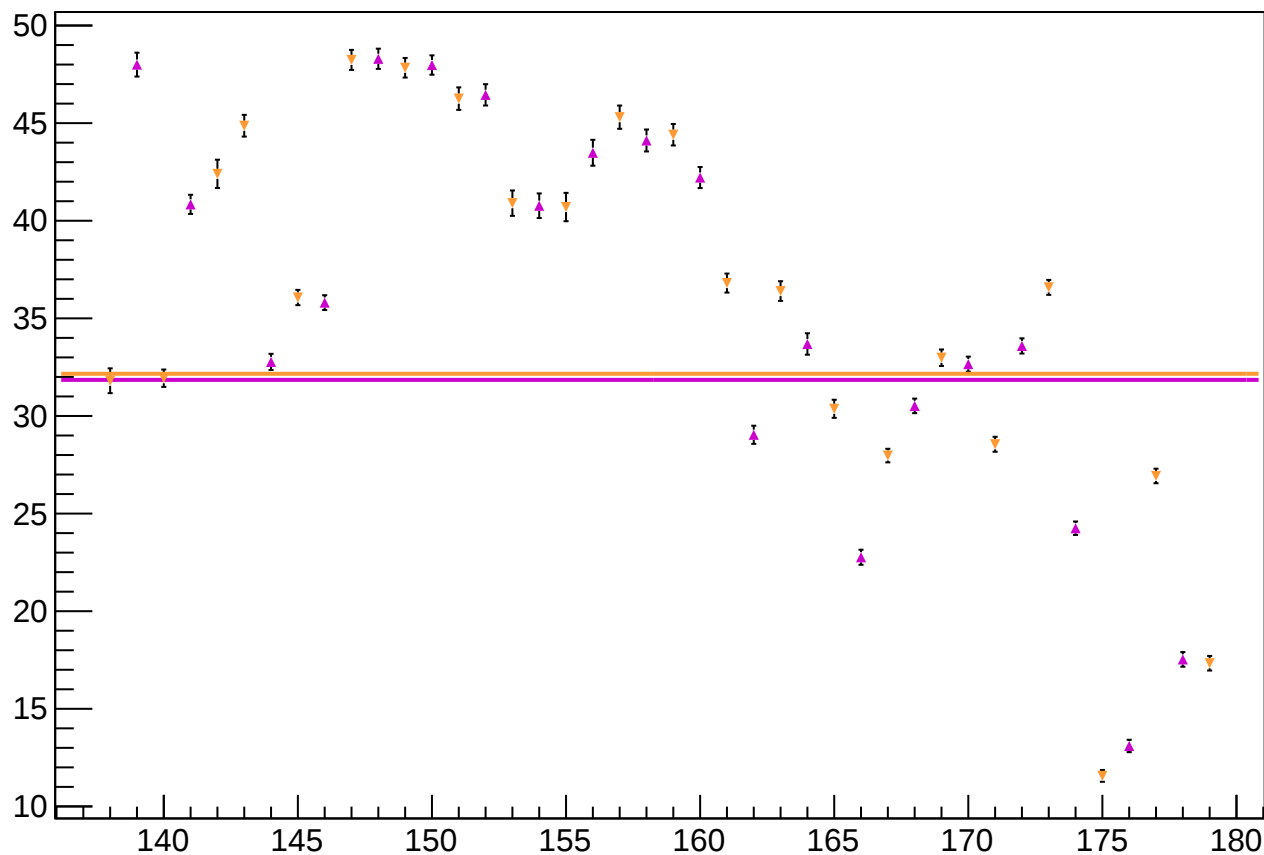
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 1.970+/-0.074  $\chi^2/\text{NDF}$ :4813.0/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.076+/-0.075  $\chi^2/\text{NDF}$ :3284.9/19

Left: 2.022+/-0.053  $\chi^2/\text{NDF}$ : 8098.9/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.076+/-0.075  $\chi^2/\text{NDF}$ :3284.9/19  
 Out: 1.970+/-0.074  $\chi^2/\text{NDF}$ :4813.0/21  
 All: 2.022+/-0.053  $\chi^2/\text{NDF}$ : 8098.9/41

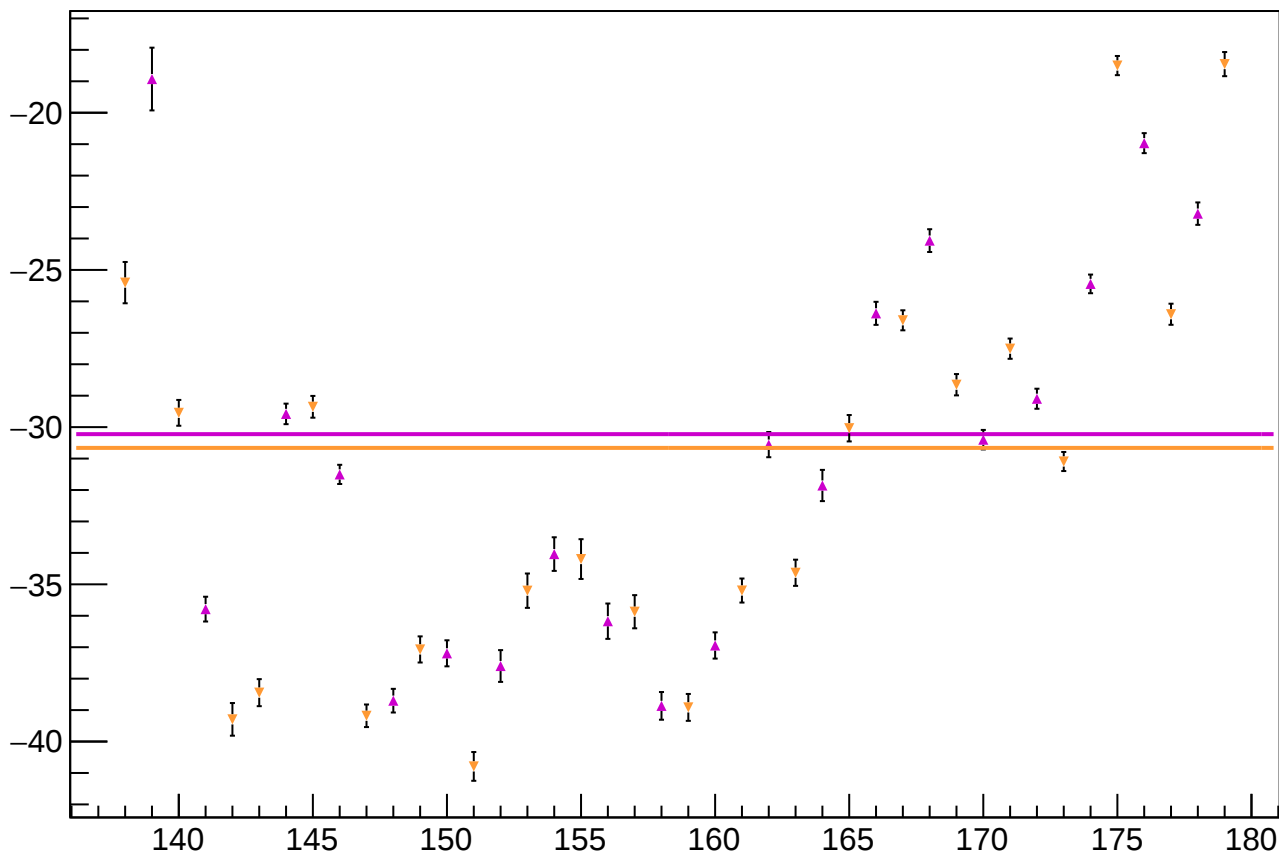
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 32.161 $\pm$ 0.097  $\chi^2$ /NDF:11597.2/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 31.848 $\pm$ 0.099  $\chi^2$ /NDF:11362.3/19

Left: 32.007 $\pm$ 0.069  $\chi^2$ /NDF: 22964.6/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 31.848 $\pm$ 0.099  $\chi^2$ /NDF:11362.3/19  
 Out: 32.161 $\pm$ 0.097  $\chi^2$ /NDF:11597.2/21  
 All: 32.007 $\pm$ 0.069  $\chi^2$ /NDF: 22964.6/41

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



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

Left Out: -30.660 $\pm$ 0.084  $\chi^2$ /NDF:5839.8/21

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

Left In: -30.223 $\pm$ 0.086  $\chi^2$ /NDF:4074.4/19

Left: -30.446 $\pm$ 0.060  $\chi^2$ /NDF: 9927.6/41

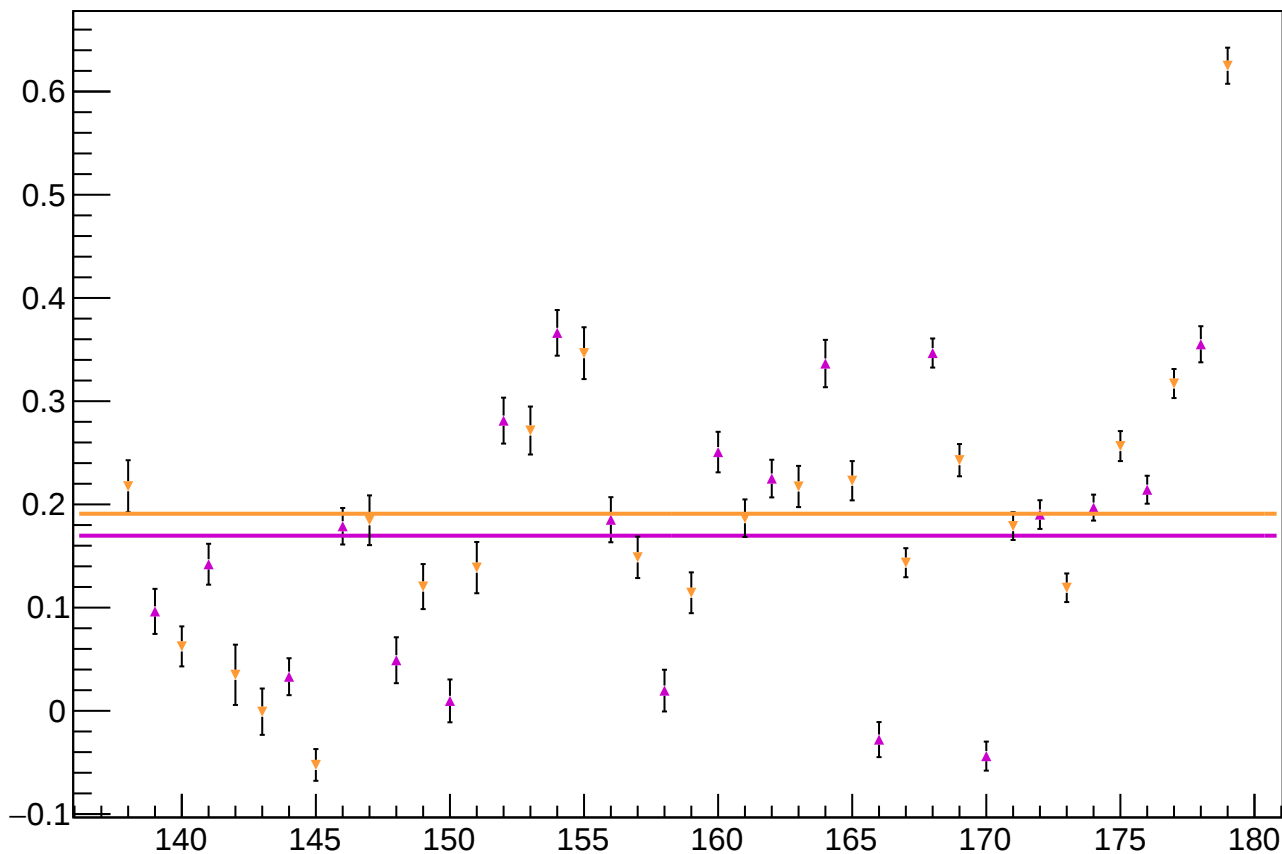
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -30.223 $\pm$ 0.086  $\chi^2$ /NDF:4074.4/19

Out: -30.660 $\pm$ 0.084  $\chi^2$ /NDF:5839.8/21

All: -30.446 $\pm$ 0.060  $\chi^2$ /NDF: 9927.6/41

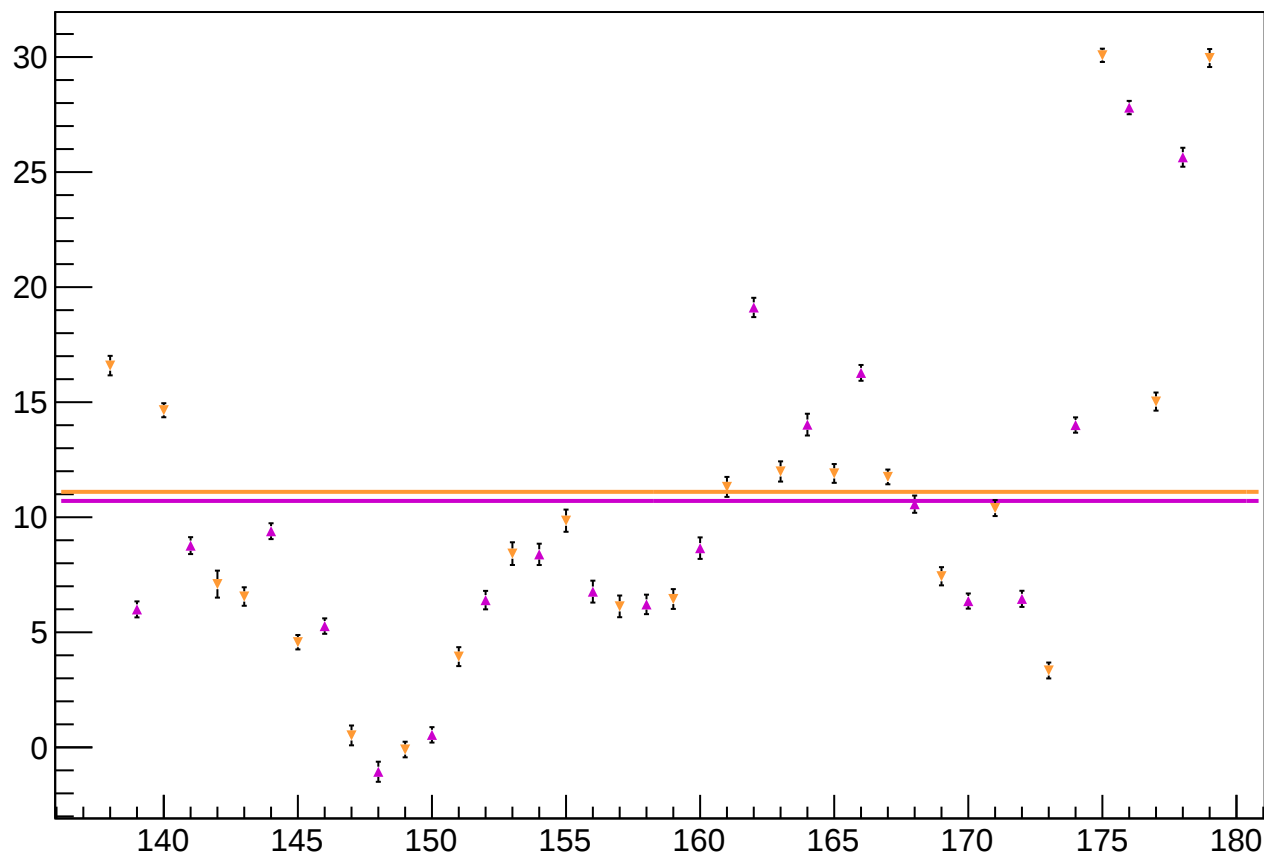
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.191 $\pm$ 0.004  $\chi^2$ /NDF:1252.6/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.170 $\pm$ 0.004  $\chi^2$ /NDF:1053.5/19

Left: 0.180 $\pm$ 0.003  $\chi^2$ /NDF: 2321.0/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.170 $\pm$ 0.004  $\chi^2$ /NDF:1053.5/19  
 Out: 0.191 $\pm$ 0.004  $\chi^2$ /NDF:1252.6/21  
 All: 0.180 $\pm$ 0.003  $\chi^2$ /NDF: 2321.0/41

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: 11.104+/-0.082  $\chi^2/\text{NDF}$ :10516.7/21

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

Left In: 10.709+/-0.084  $\chi^2/\text{NDF}$ :8390.9/19

Left: 10.910+/-0.059  $\chi^2/\text{NDF}$ : 18919.0/41

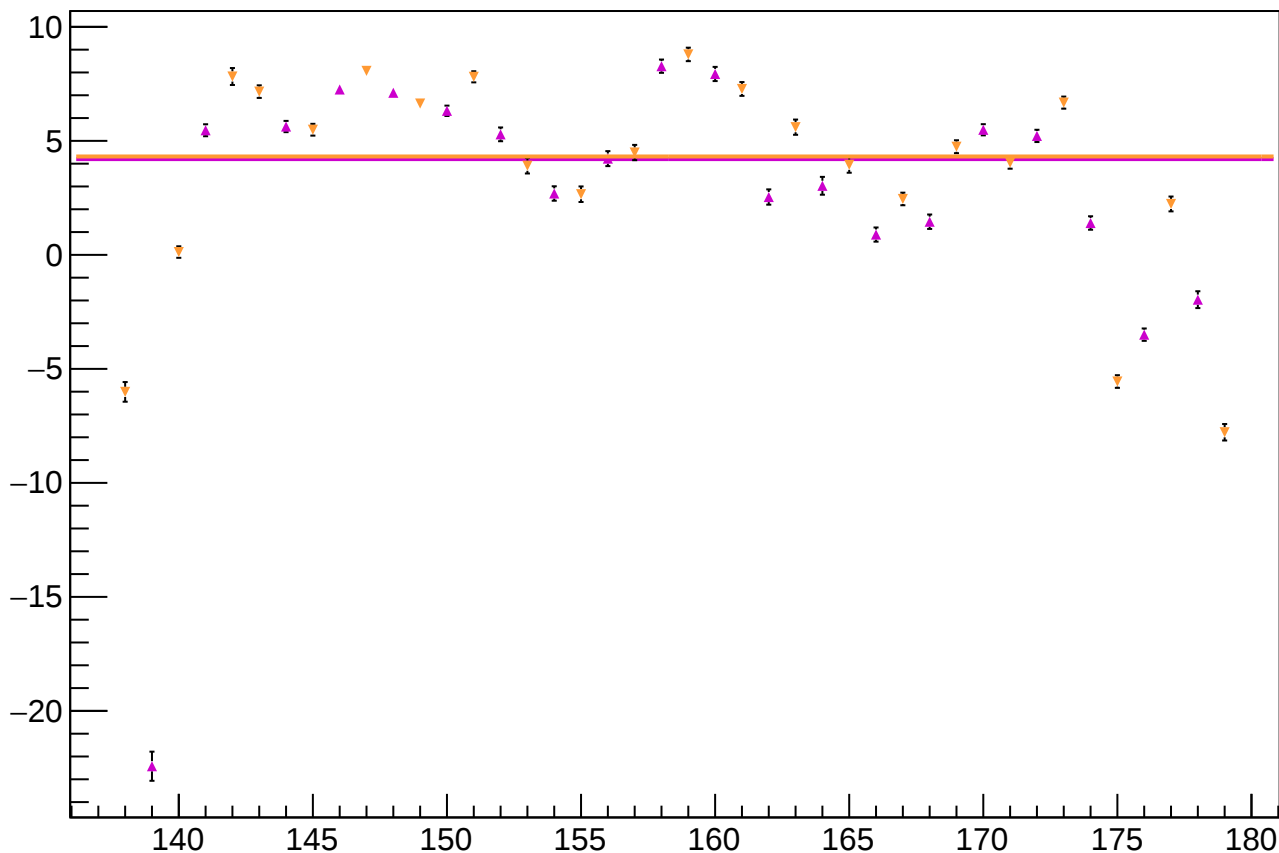
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 10.709+/-0.084  $\chi^2/\text{NDF}$ :8390.9/19

Out: 11.104+/-0.082  $\chi^2/\text{NDF}$ :10516.7/21

All: 10.910+/-0.059  $\chi^2/\text{NDF}$ : 18919.0/41

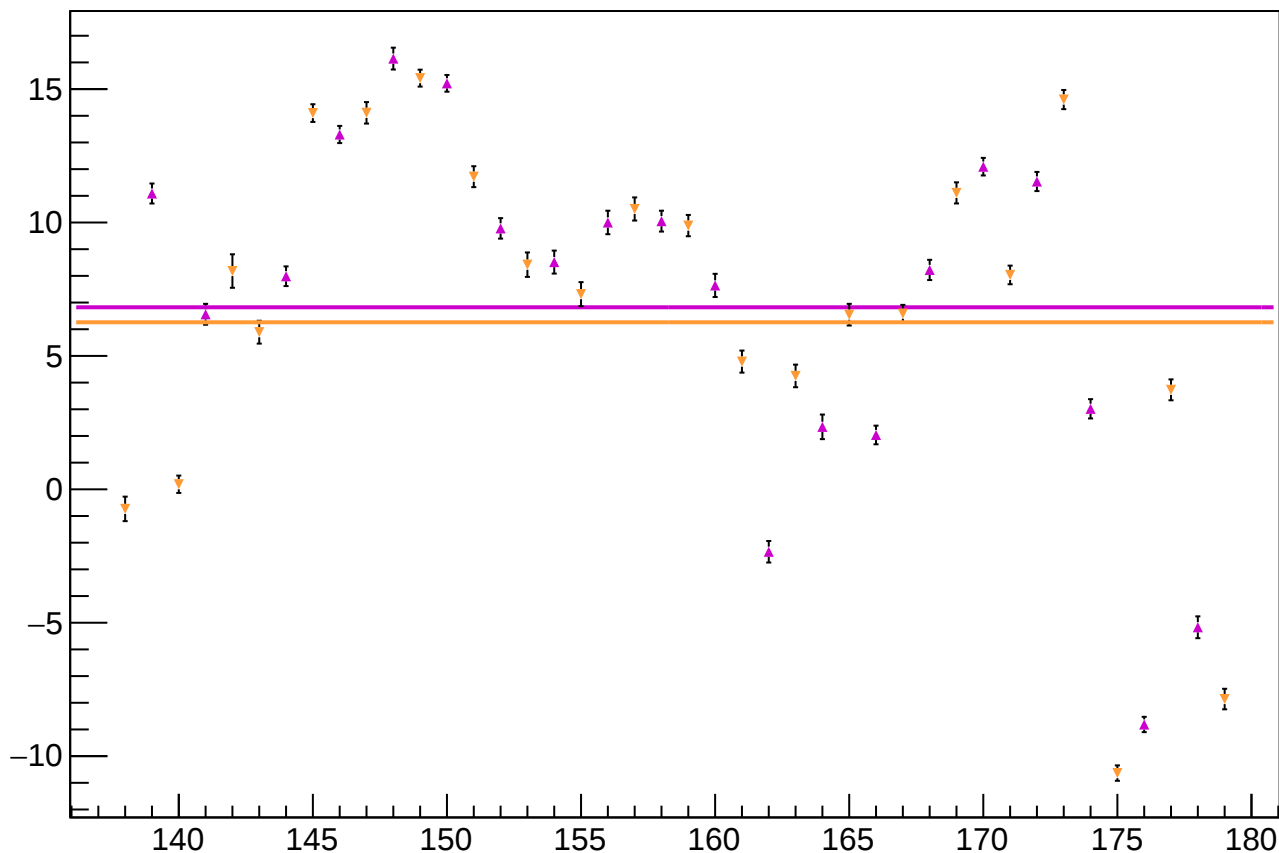
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.315+/-0.061  $\chi^2/\text{NDF}$ : 4625.7/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.200+/-0.064  $\chi^2/\text{NDF}$ : 4079.7/19

Left: 4.260+/-0.044  $\chi^2/\text{NDF}$ : 8707.1/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.200+/-0.064  $\chi^2/\text{NDF}$ : 4079.7/19  
 Out: 4.315+/-0.061  $\chi^2/\text{NDF}$ : 4625.7/21  
 All: 4.260+/-0.044  $\chi^2/\text{NDF}$ : 8707.1/41

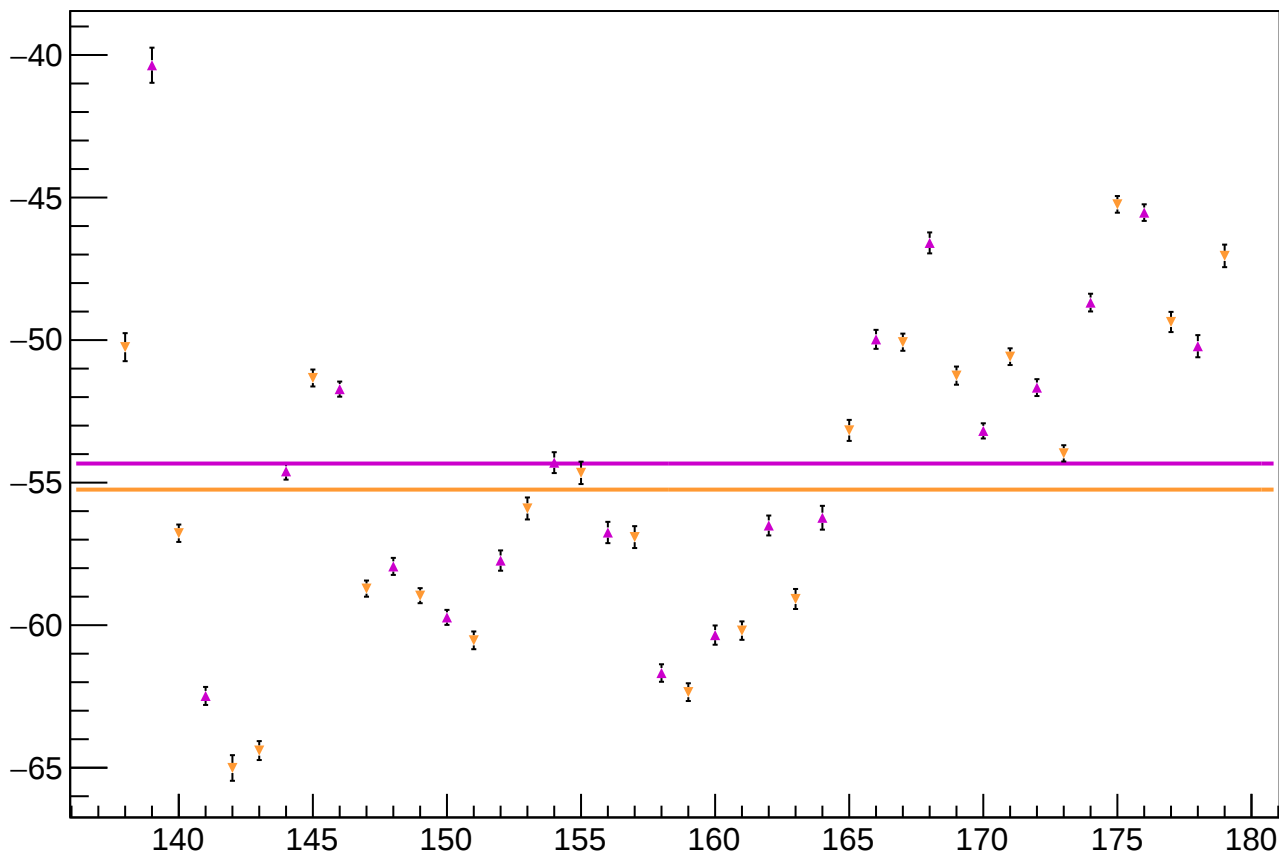
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.260 $\pm$ 0.082  $\chi^2/\text{NDF}$ :8325.9/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.823 $\pm$ 0.083  $\chi^2/\text{NDF}$ :7147.7/19

Left: 6.537 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 15496.8/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 6.823 $\pm$ 0.083  $\chi^2/\text{NDF}$ :7147.7/19  
 Out: 6.260 $\pm$ 0.082  $\chi^2/\text{NDF}$ :8325.9/21  
 All: 6.537 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 15496.8/41

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: -55.244+/-0.070  $\chi^2/\text{NDF}$ : 5704.6/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -54.330+/-0.072  $\chi^2/\text{NDF}$ : 4995.1/19

Left: -54.802+/-0.050  $\chi^2/\text{NDF}$ : 10782.0/41

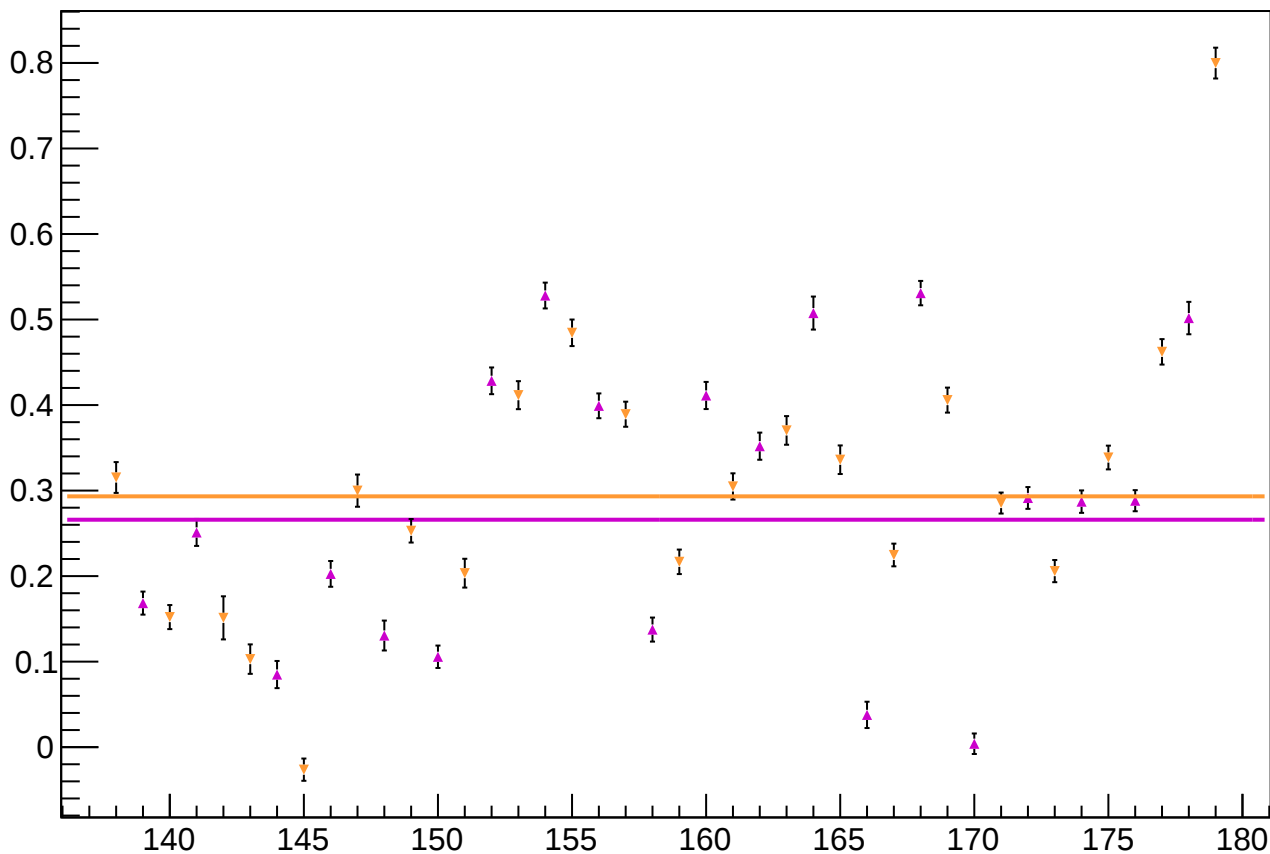
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.330+/-0.072  $\chi^2/\text{NDF}$ : 4995.1/19

Out: -55.244+/-0.070  $\chi^2/\text{NDF}$ : 5704.6/21

All: -54.802+/-0.050  $\chi^2/\text{NDF}$ : 10782.0/41

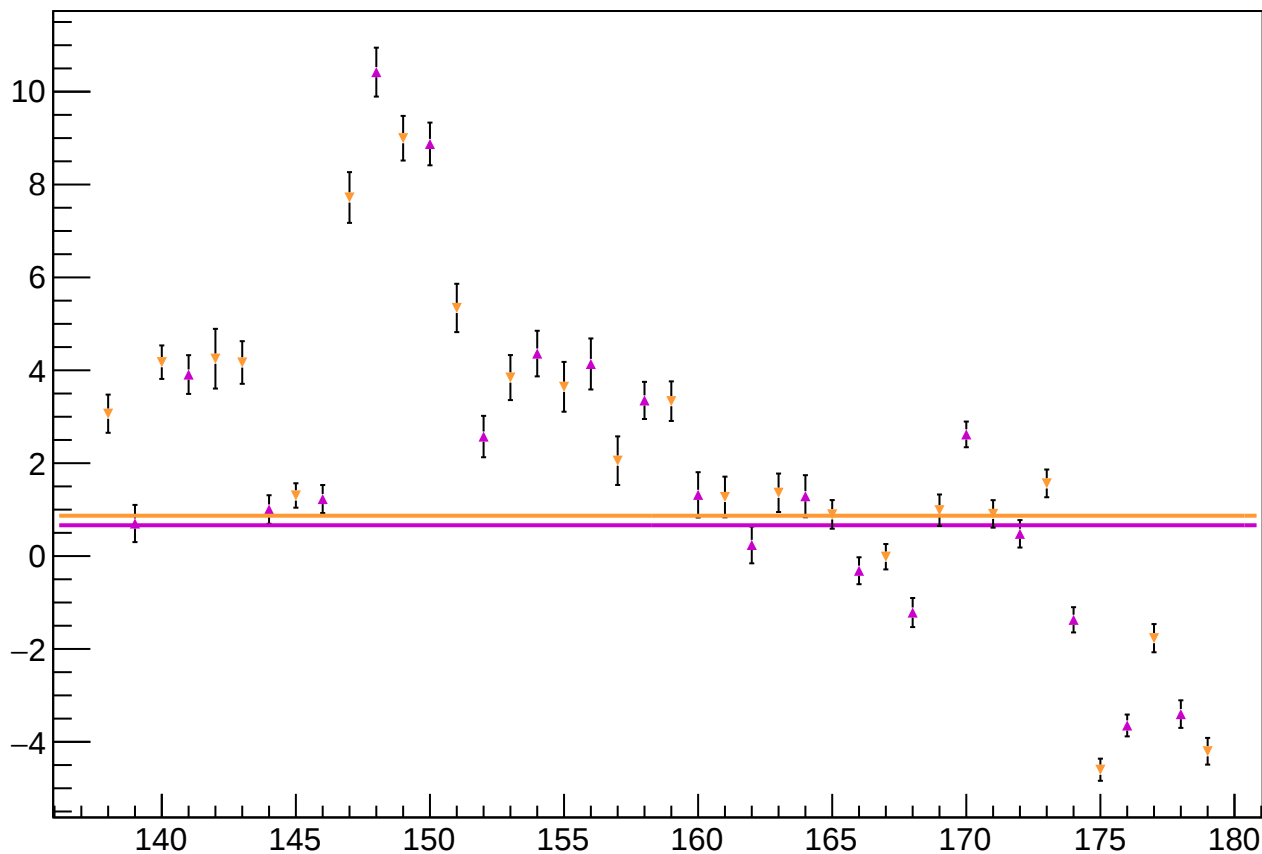
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.293+/-0.003  $\chi^2/\text{NDF}$ :2261.4/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.266+/-0.003  $\chi^2/\text{NDF}$ :2464.9/19

Left: 0.280+/-0.002  $\chi^2/\text{NDF}$ : 4761.5/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.266+/-0.003  $\chi^2/\text{NDF}$ :2464.9/19  
 Out: 0.293+/-0.003  $\chi^2/\text{NDF}$ :2261.4/21  
 All: 0.280+/-0.002  $\chi^2/\text{NDF}$ : 4761.5/41

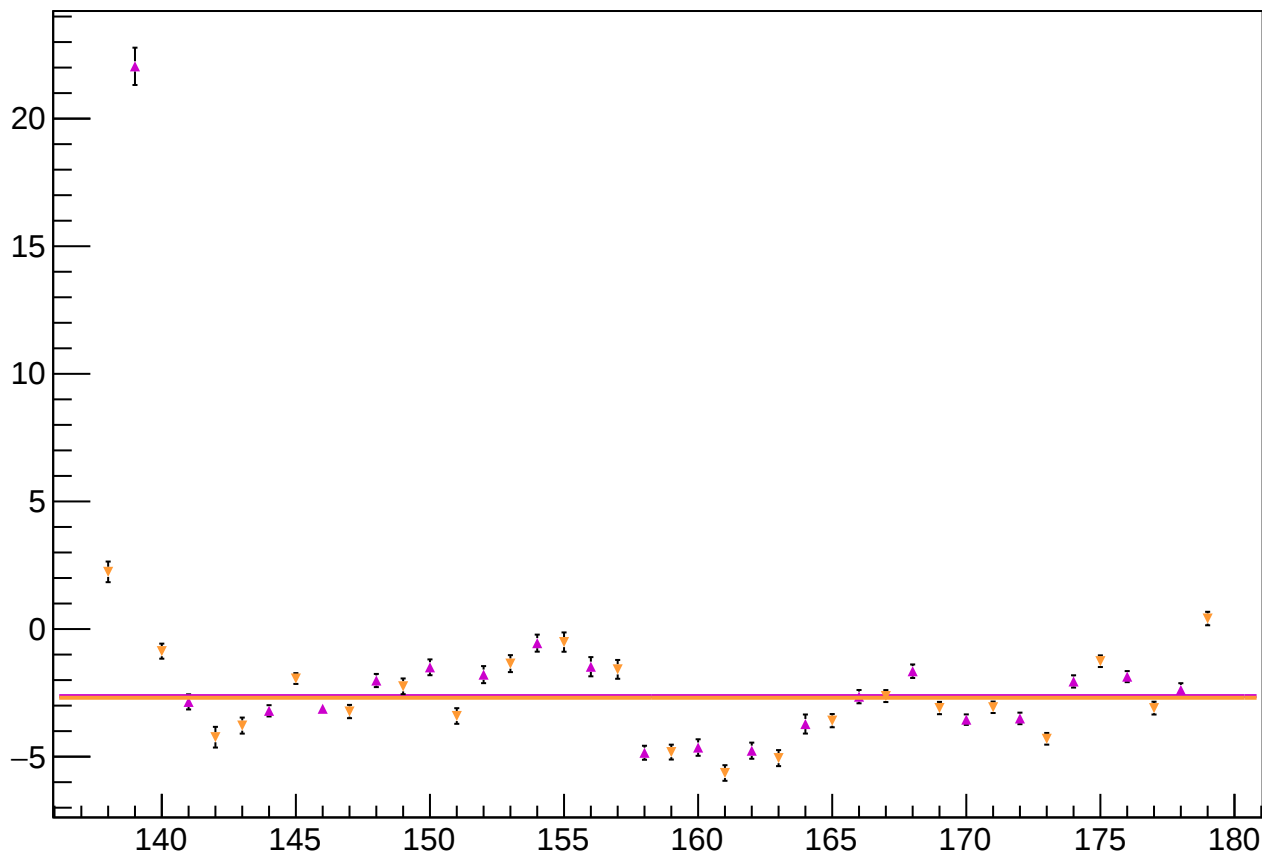
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.869 $\pm$ 0.077  $\chi^2$ /NDF:1746.4/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.663 $\pm$ 0.078  $\chi^2$ /NDF:1570.2/19

Left: 0.767 $\pm$ 0.055  $\chi^2$ /NDF: 3320.2/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.663 $\pm$ 0.078  $\chi^2$ /NDF:1570.2/19  
 Out: 0.869 $\pm$ 0.077  $\chi^2$ /NDF:1746.4/21  
 All: 0.767 $\pm$ 0.055  $\chi^2$ /NDF: 3320.2/41

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-2.692 \pm 0.059$   $\chi^2/\text{NDF}: 746.7/21$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-2.628 \pm 0.060$   $\chi^2/\text{NDF}: 1452.6/19$

Left:  $-2.660 \pm 0.042$   $\chi^2/\text{NDF}: 2200.0/41$

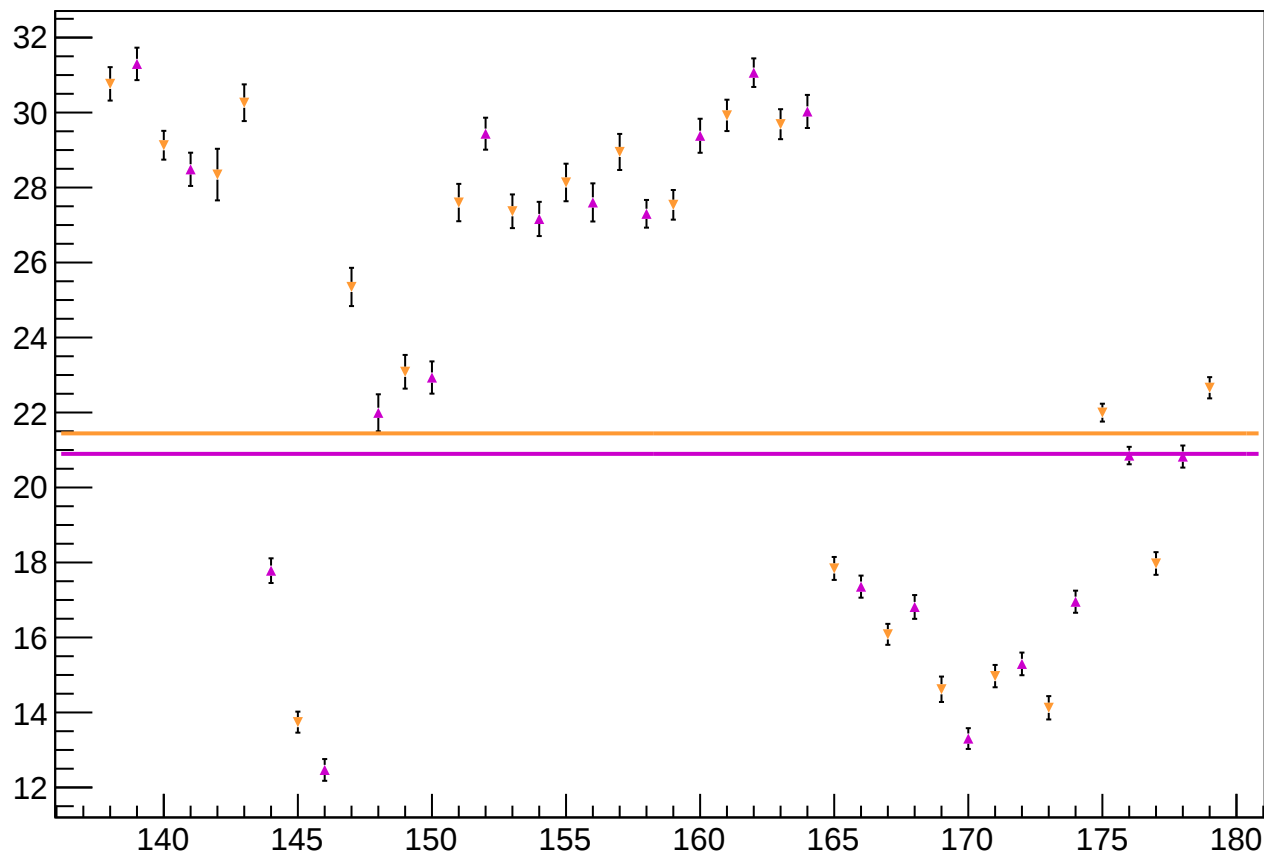
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-2.628 \pm 0.060$   $\chi^2/\text{NDF}: 1452.6/19$

Out:  $-2.692 \pm 0.059$   $\chi^2/\text{NDF}: 746.7/21$

All:  $-2.660 \pm 0.042$   $\chi^2/\text{NDF}: 2200.0/41$

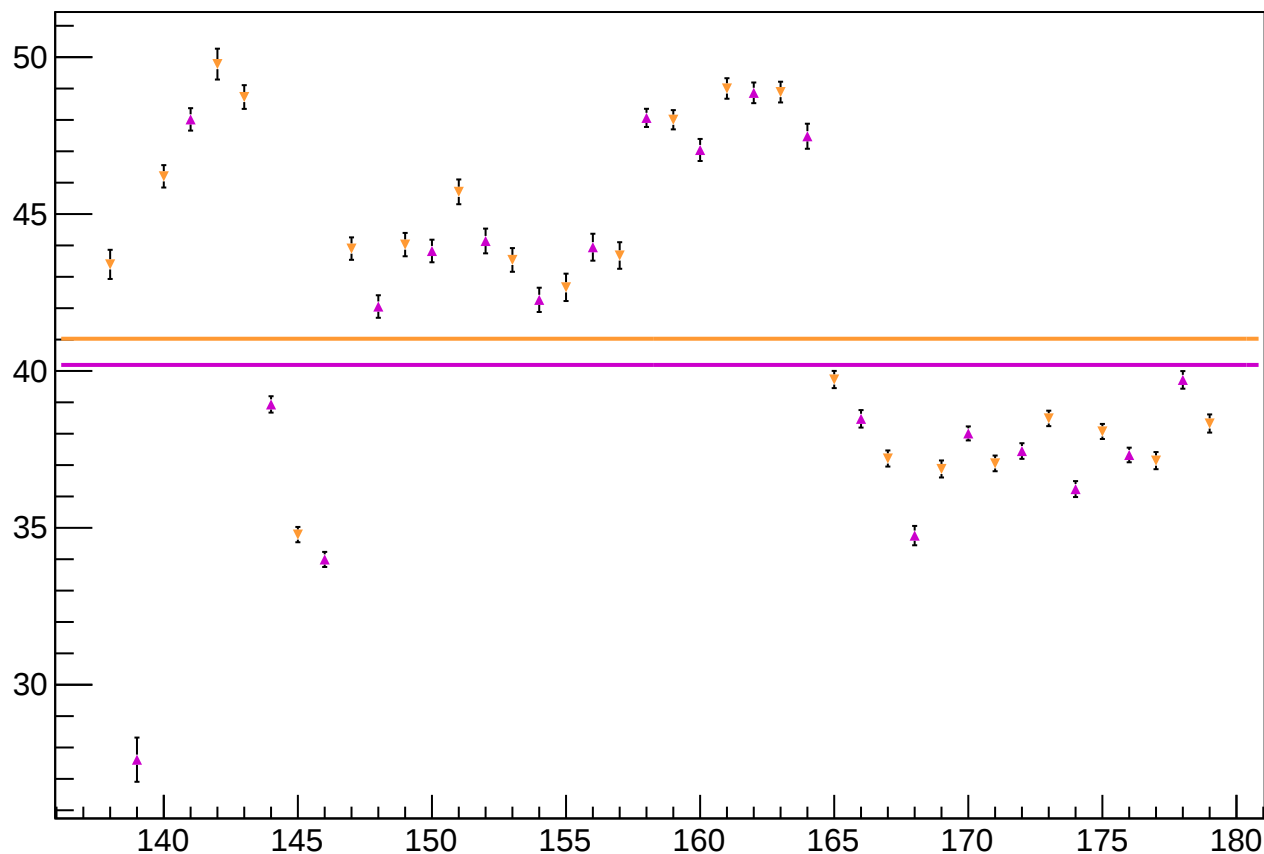
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 21.443+/-0.077  $\chi^2/\text{NDF}$ :6005.6/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 20.897+/-0.078  $\chi^2/\text{NDF}$ :5969.5/19

Left: 21.173+/-0.055  $\chi^2/\text{NDF}$ : 12000.2/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 20.897+/-0.078  $\chi^2/\text{NDF}$ :5969.5/19  
 Out: 21.443+/-0.077  $\chi^2/\text{NDF}$ :6005.6/21  
 All: 21.173+/-0.055  $\chi^2/\text{NDF}$ : 12000.2/41

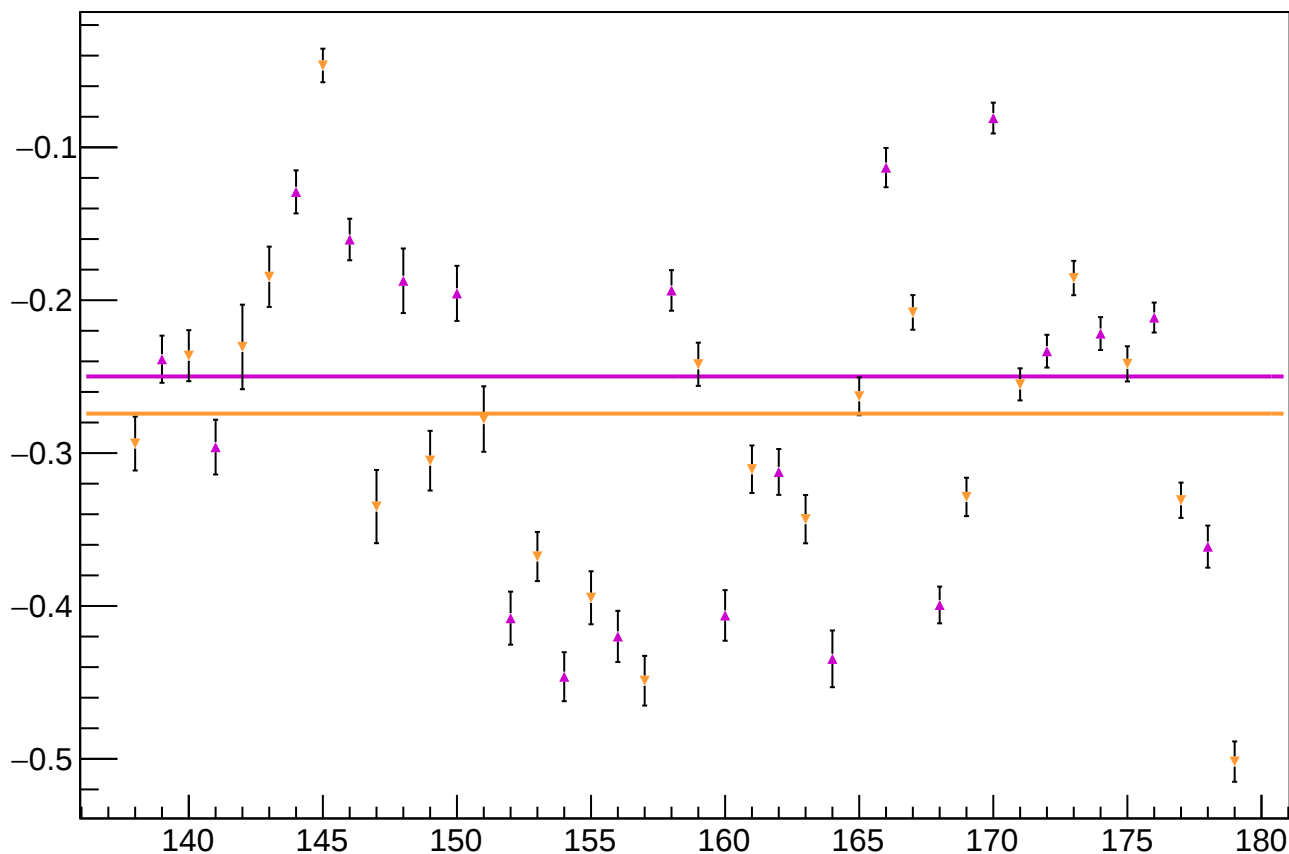
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 41.027 $\pm$ 0.067  $\chi^2$ /NDF:4945.8/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 40.192 $\pm$ 0.068  $\chi^2$ /NDF:4928.9/19

Left: 40.617 $\pm$ 0.047  $\chi^2$ /NDF: 9951.9/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 40.192 $\pm$ 0.068  $\chi^2$ /NDF:4928.9/19  
 Out: 41.027 $\pm$ 0.067  $\chi^2$ /NDF:4945.8/21  
 All: 40.617 $\pm$ 0.047  $\chi^2$ /NDF: 9951.9/41

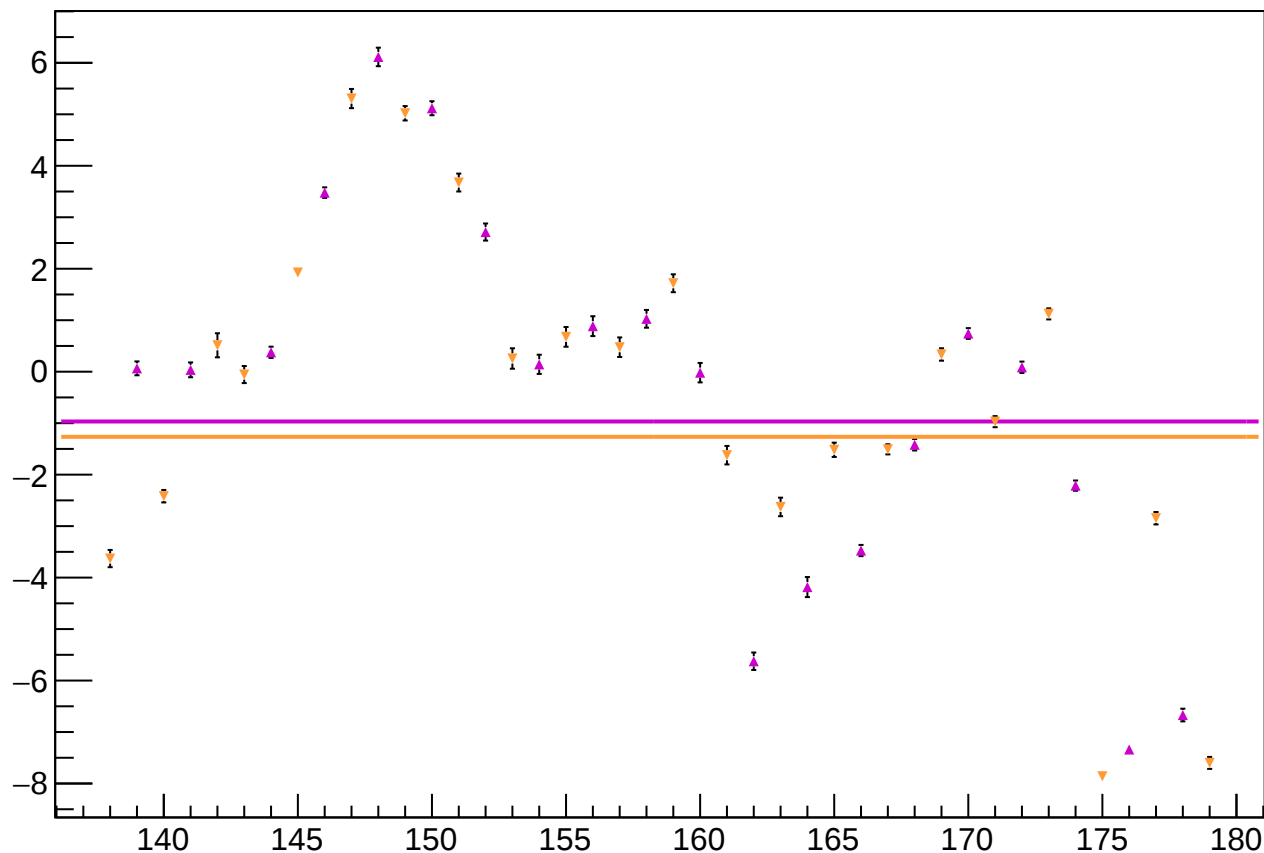
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.274 $\pm$ 0.003  $\chi^2$ /NDF:1144.1/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.250 $\pm$ 0.003  $\chi^2$ /NDF:1341.4/19

Left: -0.262 $\pm$ 0.002  $\chi^2$ /NDF: 2517.1/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.250 $\pm$ 0.003  $\chi^2$ /NDF:1341.4/19  
 Out: -0.274 $\pm$ 0.003  $\chi^2$ /NDF:1144.1/21  
 All: -0.262 $\pm$ 0.002  $\chi^2$ /NDF: 2517.1/41

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected

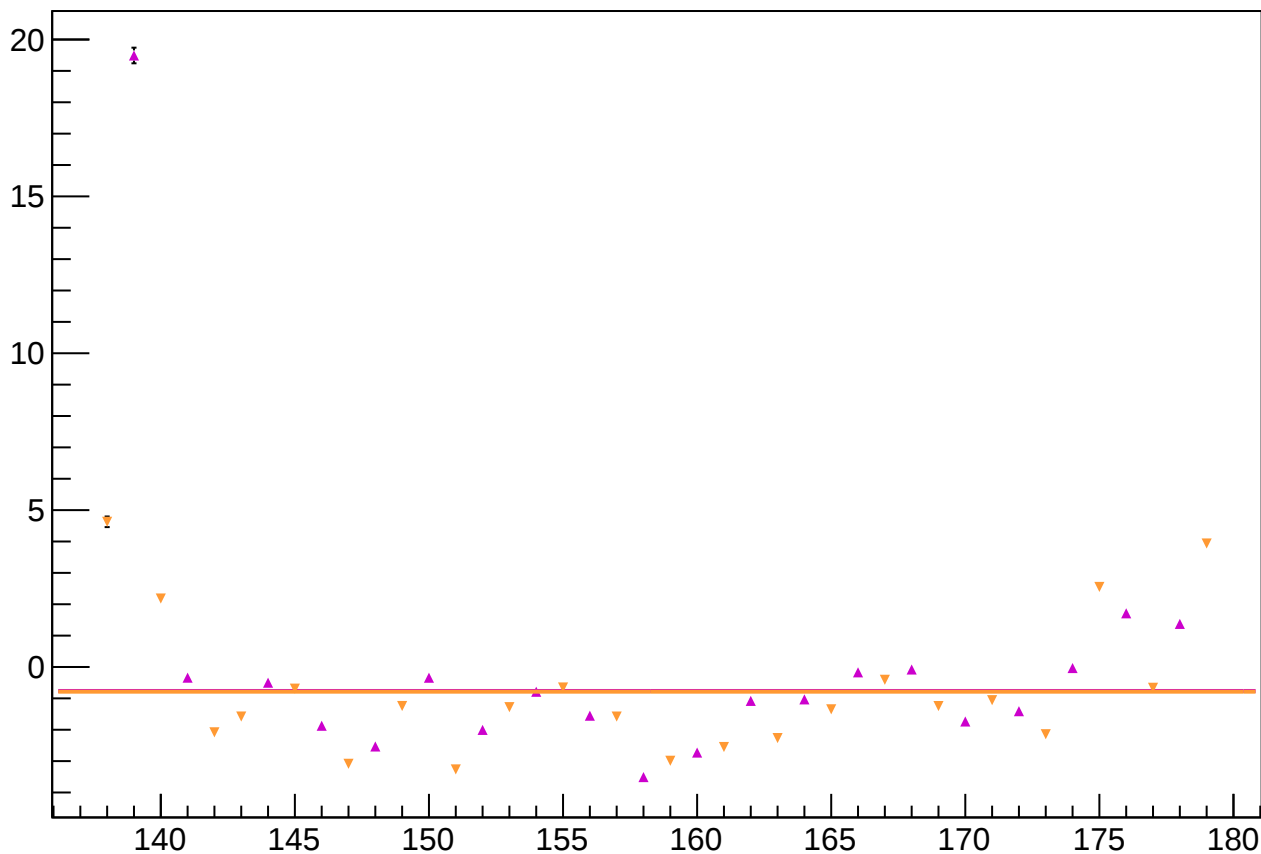


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -1.265 $\pm$ 0.029  $\chi^2$ /NDF:15718.0/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.967 $\pm$ 0.029  $\chi^2$ /NDF:15479.3/19

Left: -1.118 $\pm$ 0.020  $\chi^2$ /NDF: 31251.4/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.967 $\pm$ 0.029  $\chi^2$ /NDF:15479.3/19  
 Out: -1.265 $\pm$ 0.029  $\chi^2$ /NDF:15718.0/21

All: -1.118 $\pm$ 0.020  $\chi^2$ /NDF: 31251.4/41

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

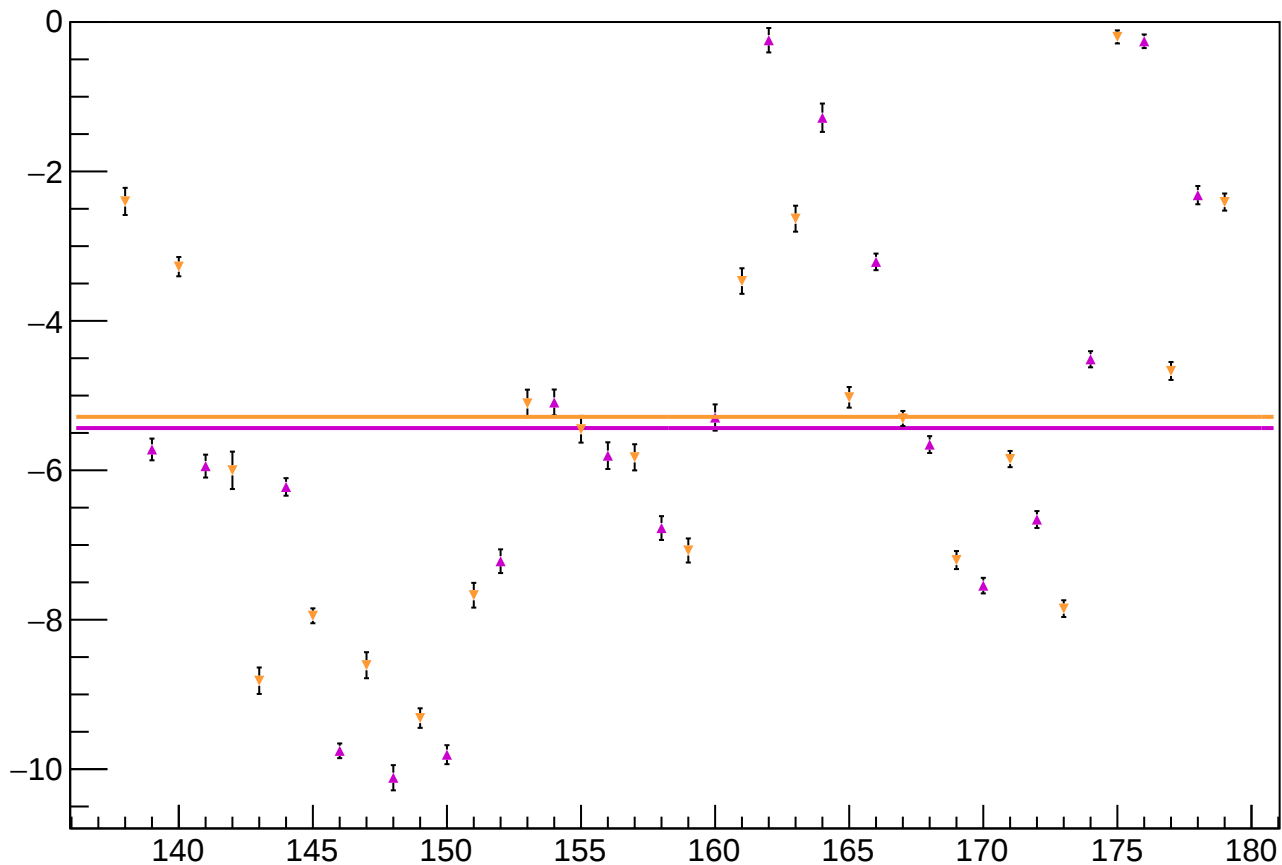


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.786+/-0.022  $\chi^2/\text{NDF}$ : 7873.8/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.765+/-0.022  $\chi^2/\text{NDF}$ : 9822.0/19

Left: -0.776+/-0.016  $\chi^2/\text{NDF}$ : 17696.2/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.765+/-0.022  $\chi^2/\text{NDF}$ : 9822.0/19  
 Out: -0.786+/-0.022  $\chi^2/\text{NDF}$ : 7873.8/21

All: -0.776+/-0.016  $\chi^2/\text{NDF}$ : 17696.2/41

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: -5.285+/-0.029  $\chi^2/\text{NDF}$ :8456.1/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.435+/-0.029  $\chi^2/\text{NDF}$ :10502.6/19

Left: -5.359+/-0.020  $\chi^2/\text{NDF}$ : 18972.4/41

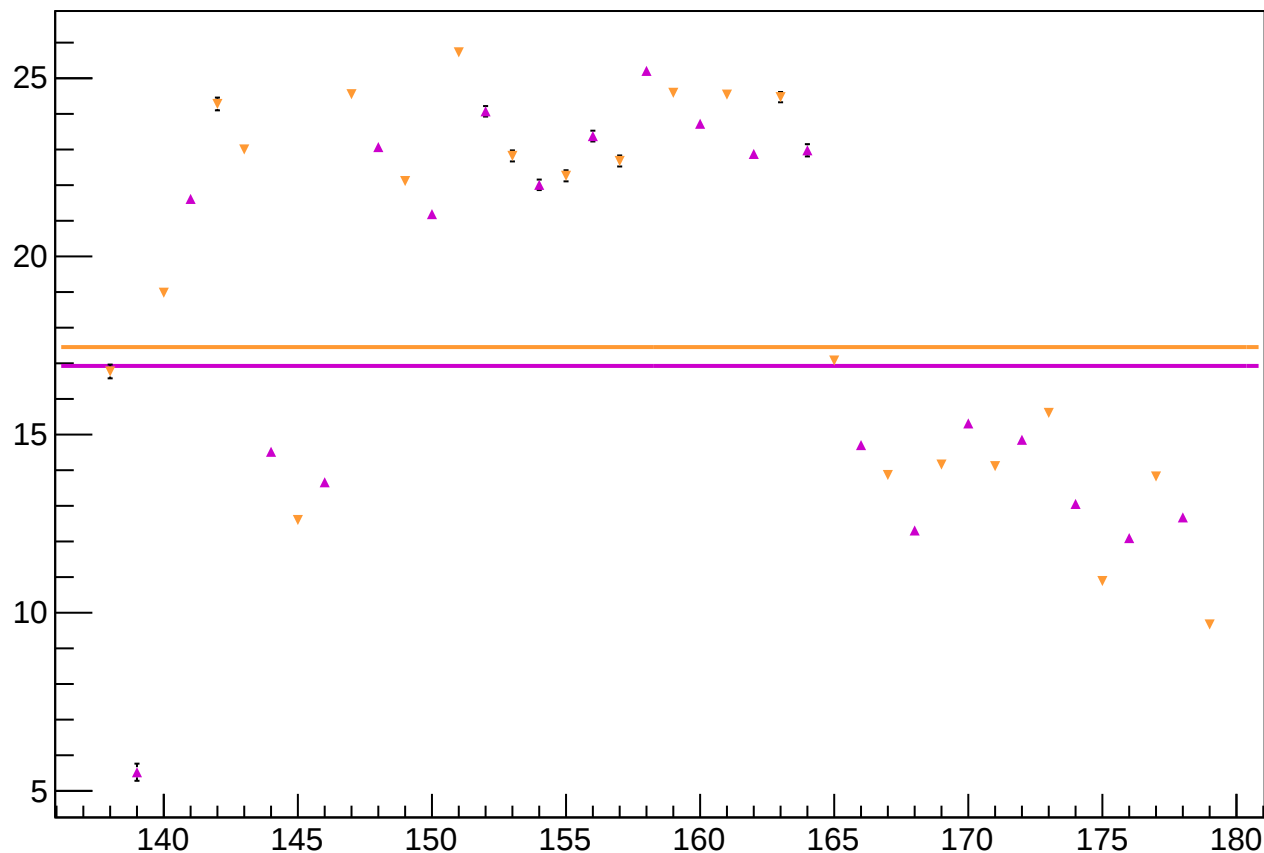
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.435+/-0.029  $\chi^2/\text{NDF}$ :10502.6/19

Out: -5.285+/-0.029  $\chi^2/\text{NDF}$ :8456.1/21

All: -5.359+/-0.020  $\chi^2/\text{NDF}$ : 18972.4/41

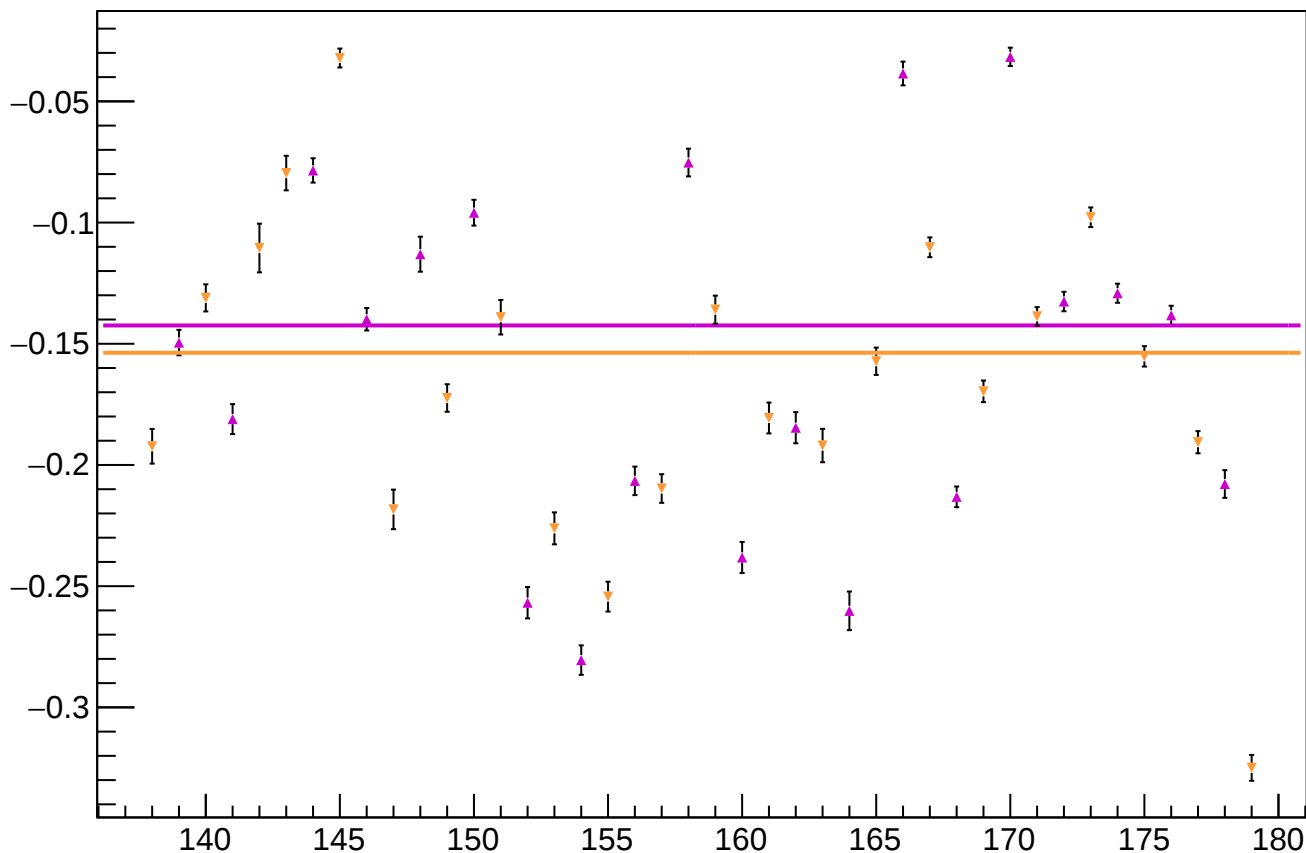
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 17.456+/-0.025  $\chi^2/\text{NDF}$ :42622.7/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 16.927+/-0.025  $\chi^2/\text{NDF}$ :34109.2/19

Left: 17.196+/-0.018  $\chi^2/\text{NDF}$ : 76955.6/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 16.927+/-0.025  $\chi^2/\text{NDF}$ :34109.2/19  
 Out: 17.456+/-0.025  $\chi^2/\text{NDF}$ :42622.7/21  
 All: 17.196+/-0.018  $\chi^2/\text{NDF}$ : 76955.6/41

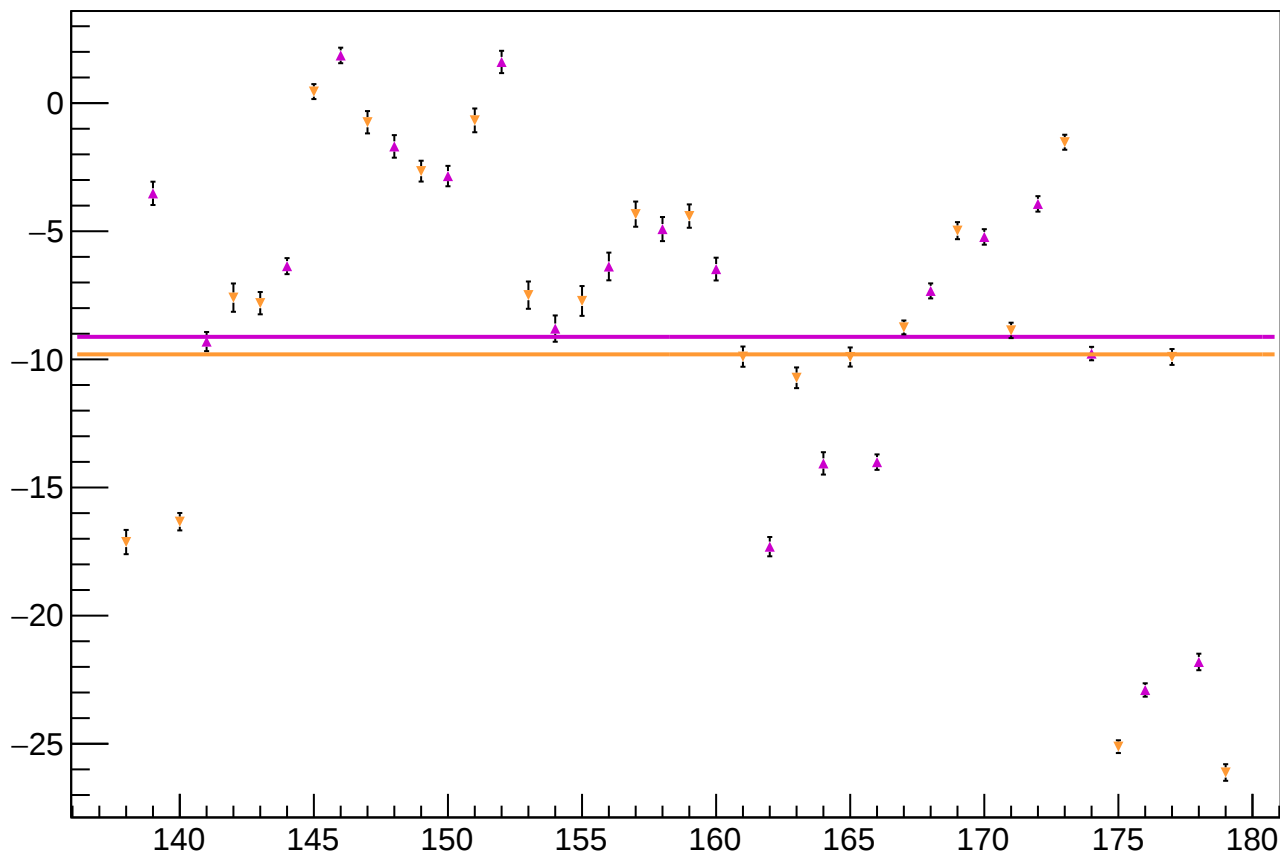
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-0.154 \pm 0.001$   $\chi^2/\text{NDF}: 3177.8/21$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-0.142 \pm 0.001$   $\chi^2/\text{NDF}: 3593.8/19$

Left:  $-0.148 \pm 0.001$   $\chi^2/\text{NDF}: 6820.4/41$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-0.142 \pm 0.001$   $\chi^2/\text{NDF}: 3593.8/19$   
 Out:  $-0.154 \pm 0.001$   $\chi^2/\text{NDF}: 3177.8/21$   
 All:  $-0.148 \pm 0.001$   $\chi^2/\text{NDF}: 6820.4/41$

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

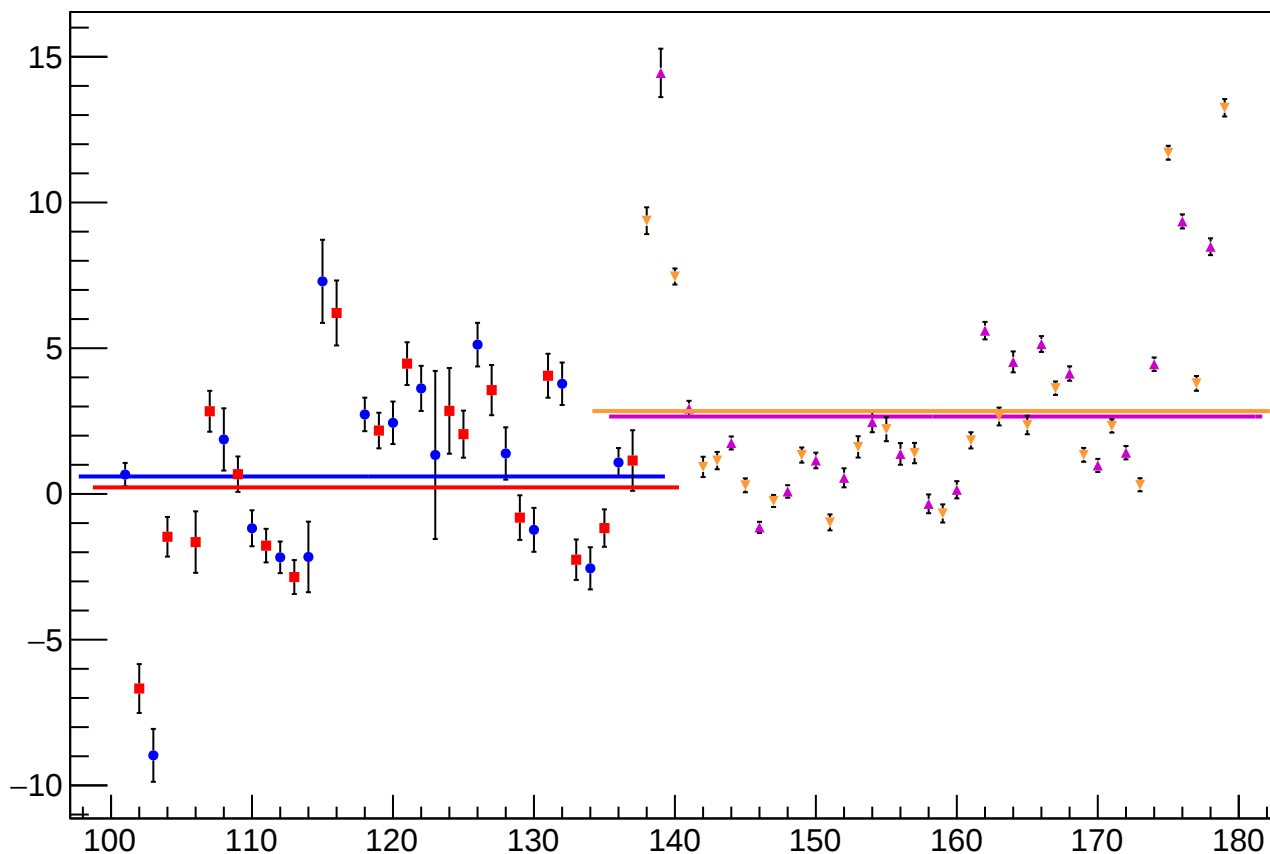


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.804+/-0.078  $\chi^2/\text{NDF}$ :10655.0/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -9.120+/-0.078  $\chi^2/\text{NDF}$ :8525.7/19

Left: -9.466+/-0.055  $\chi^2/\text{NDF}$ : 19219.0/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -9.120+/-0.078  $\chi^2/\text{NDF}$ :8525.7/19  
 Out: -9.804+/-0.078  $\chi^2/\text{NDF}$ :10655.0/21

All: -9.466+/-0.055  $\chi^2/\text{NDF}$ : 19219.0/41

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.600 \pm 0.169$   $\chi^2/\text{NDF}$ : 291.9/16

Left Out:  $2.844 \pm 0.059$   $\chi^2/\text{NDF}$ : 4060.5/21

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

Left In:  $2.657 \pm 0.060$   $\chi^2/\text{NDF}$ : 2564.8/19

Left:  $2.752 \pm 0.042$   $\chi^2/\text{NDF}$ : 6630.3/41

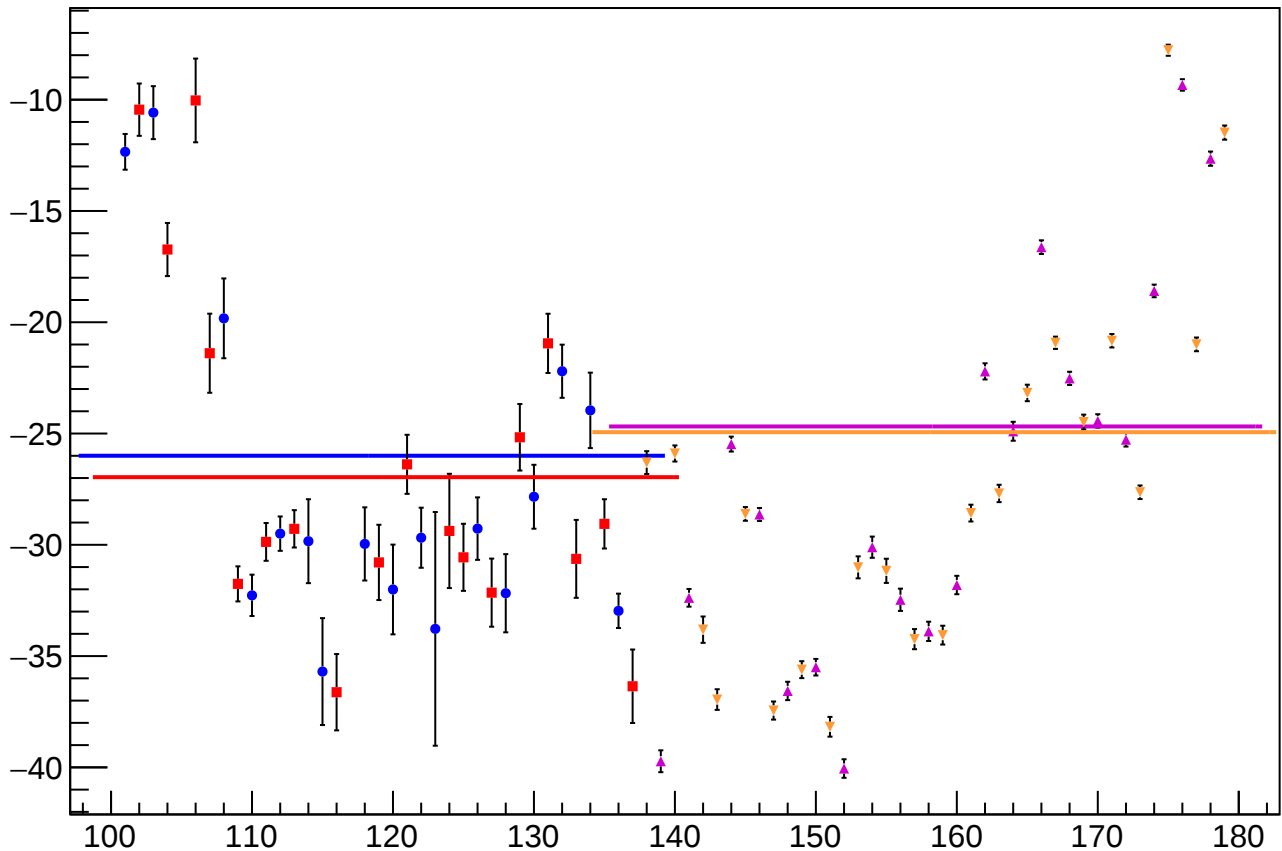
Right:  $0.418 \pm 0.122$   $\chi^2/\text{NDF}$ : 567.5/34

In:  $2.428 \pm 0.056$   $\chi^2/\text{NDF}$ : 2988.0/36

Out:  $2.579 \pm 0.056$   $\chi^2/\text{NDF}$ : 4535.6/39

All:  $2.505 \pm 0.040$   $\chi^2/\text{NDF}$ : 7527.2/76

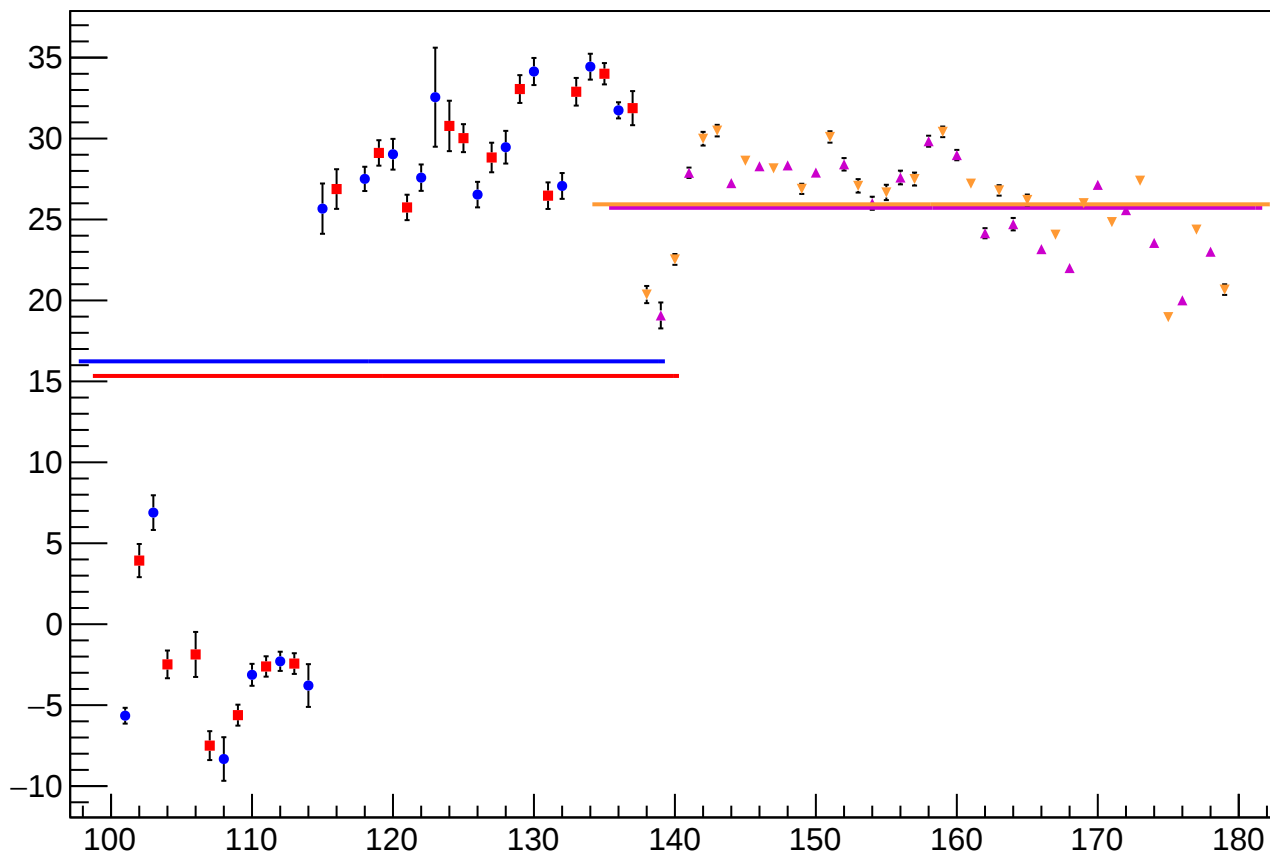
reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-25.998 \pm 0.300$   $\chi^2/\text{NDF}$ : 692.6/16  
 Left Out:  $-24.938 \pm 0.078$   $\chi^2/\text{NDF}$ : 12157.6/21  
 Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17  
 Left In:  $-24.683 \pm 0.078$   $\chi^2/\text{NDF}$ : 11844.6/19

Left:  $-24.812 \pm 0.055$   $\chi^2/\text{NDF}$ : 24007.6/41  
 Right:  $-26.482 \pm 0.212$   $\chi^2/\text{NDF}$ : 1233.2/34  
 In:  $-24.766 \pm 0.076$   $\chi^2/\text{NDF}$ : 12555.2/36  
 Out:  $-25.066 \pm 0.075$   $\chi^2/\text{NDF}$ : 12736.0/39  
 All:  $-24.918 \pm 0.053$   $\chi^2/\text{NDF}$ : 25299.1/76

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.237 $\pm$ 0.191  $\chi^2$ /NDF: 7579.9/16

Left Out: 25.938 $\pm$ 0.067  $\chi^2$ /NDF:2180.3/21

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

Left In: 25.722 $\pm$ 0.068  $\chi^2$ /NDF:1659.4/19

Left: 25.832 $\pm$ 0.048  $\chi^2$ /NDF: 3844.9/41

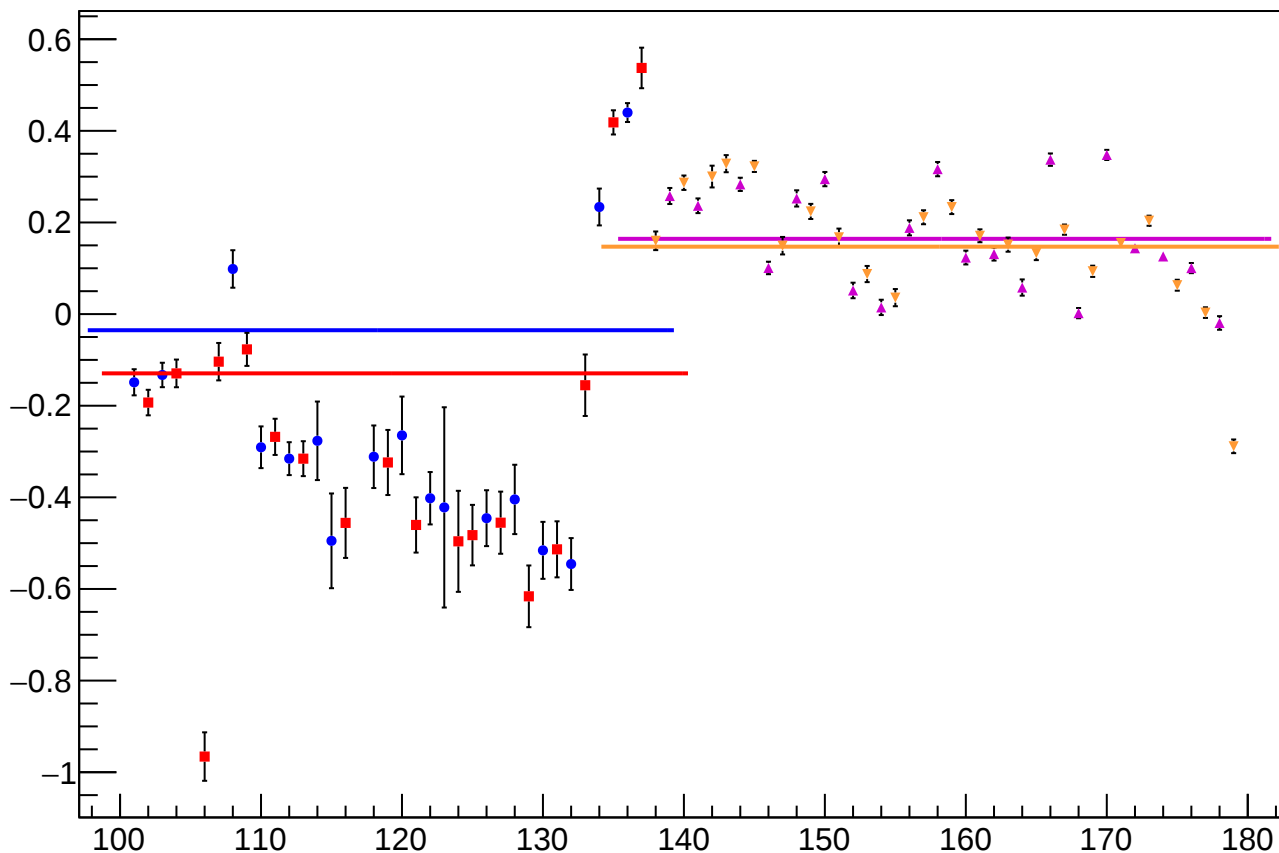
Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14850.4/34

In: 24.661 $\pm$ 0.064  $\chi^2$ /NDF:11420.6/36

Out: 24.853 $\pm$ 0.063  $\chi^2$ /NDF:12036.2/39

All: 24.758 $\pm$ 0.045  $\chi^2$ /NDF: 23461.3/76

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.035 \pm 0.010$   $\chi^2/\text{NDF}$ : 1013.6/16

Left Out:  $0.147 \pm 0.003$   $\chi^2/\text{NDF}$ : 1659.6/21

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

Left In:  $0.164 \pm 0.003$   $\chi^2/\text{NDF}$ : 1352.9/19

Left:  $0.156 \pm 0.002$   $\chi^2/\text{NDF}$ : 3027.8/41

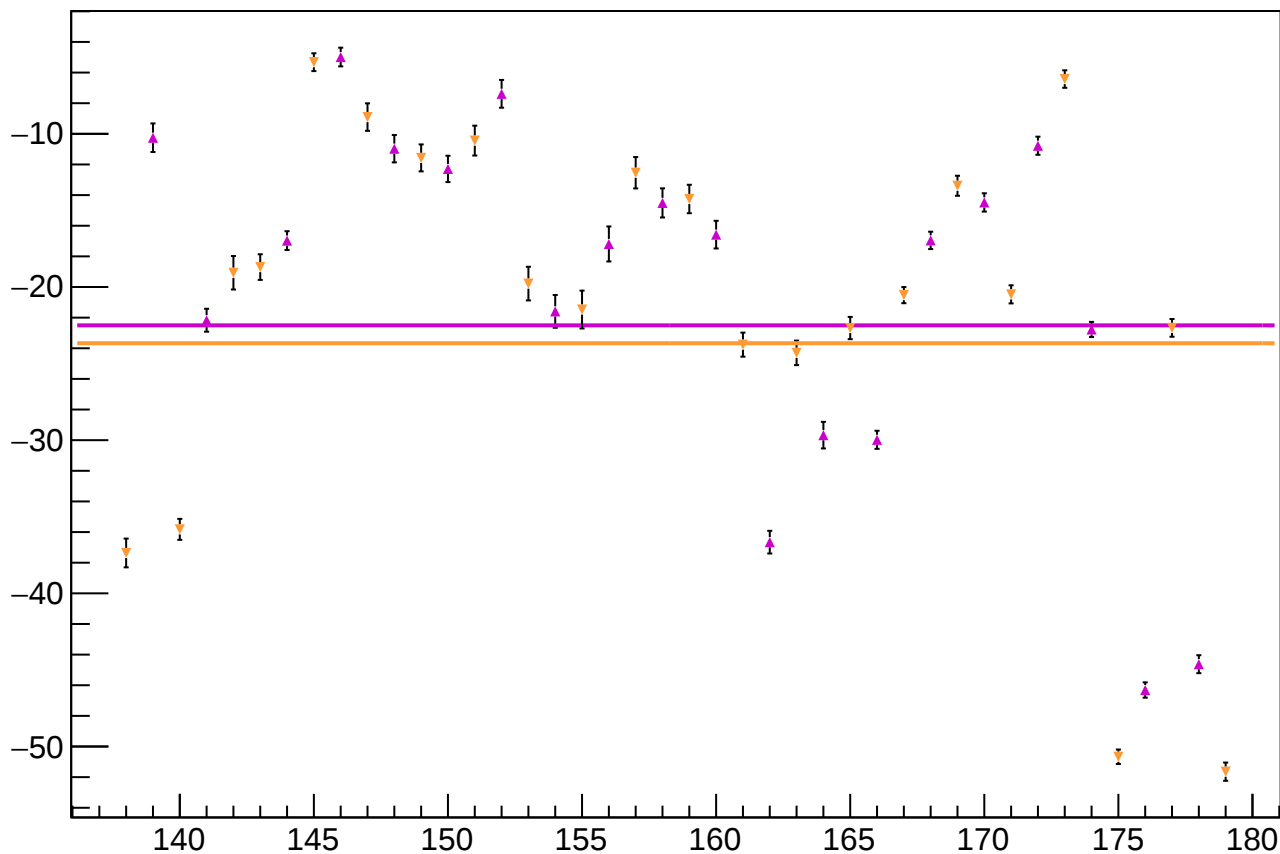
Right:  $-0.082 \pm 0.007$   $\chi^2/\text{NDF}$ : 2216.5/34

In:  $0.148 \pm 0.003$   $\chi^2/\text{NDF}$ : 2709.0/36

Out:  $0.125 \pm 0.003$   $\chi^2/\text{NDF}$ : 3472.7/39

All:  $0.136 \pm 0.002$   $\chi^2/\text{NDF}$ : 6211.5/76

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: -23.671+/-0.153  $\chi^2/\text{NDF}$ :9130.8/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.504+/-0.155  $\chi^2/\text{NDF}$ :6745.1/19

Left: -23.095+/-0.109  $\chi^2/\text{NDF}$ : 15904.7/41

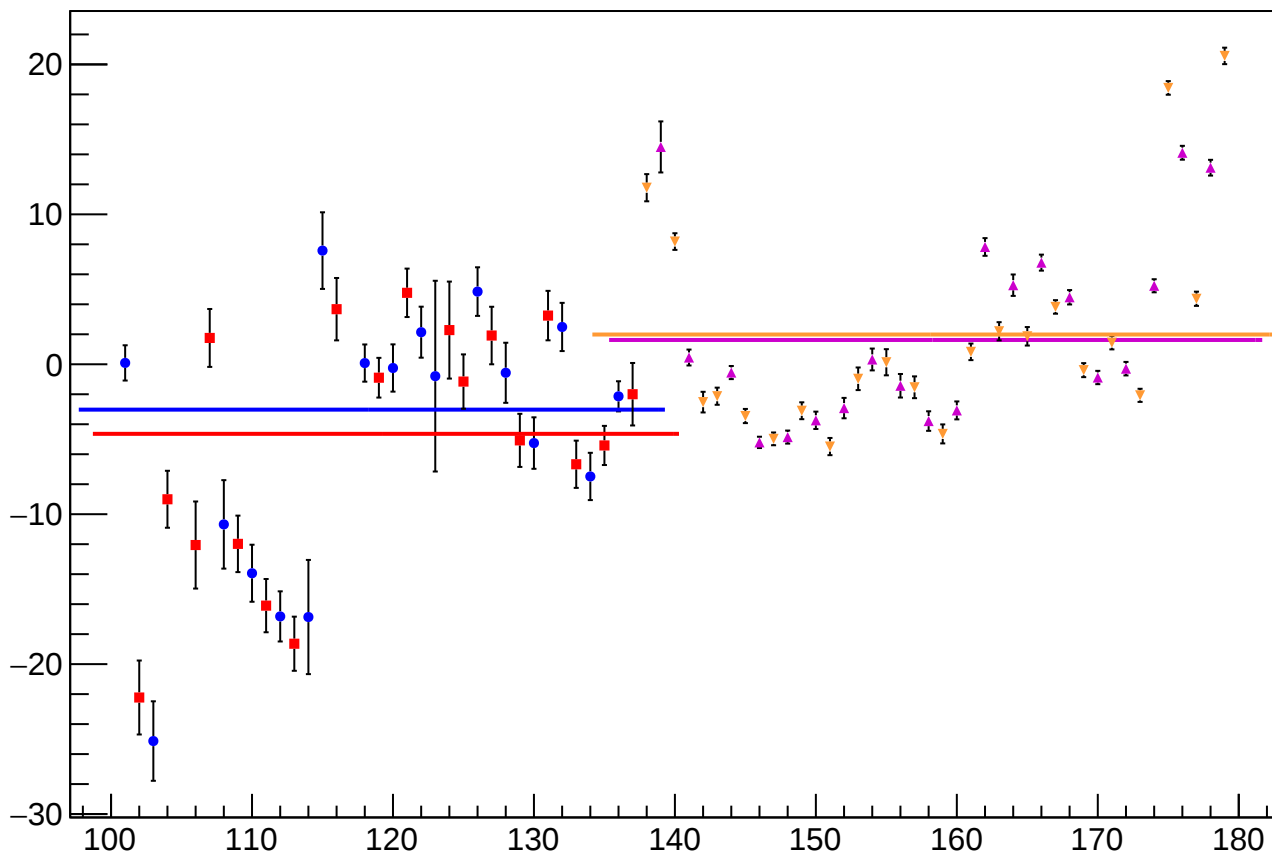
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.504+/-0.155  $\chi^2/\text{NDF}$ :6745.1/19

Out: -23.671+/-0.153  $\chi^2/\text{NDF}$ :9130.8/21

All: -23.095+/-0.109  $\chi^2/\text{NDF}$ : 15904.7/41

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.025 \pm 0.408$   $\chi^2/\text{NDF}$ : 280.6/16

Left Out:  $1.985 \pm 0.116$   $\chi^2/\text{NDF}$ : 3748.4/21

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

Left In:  $1.621 \pm 0.118$   $\chi^2/\text{NDF}$ : 2505.9/19

Left:  $1.806 \pm 0.083$   $\chi^2/\text{NDF}$ : 6259.1/41

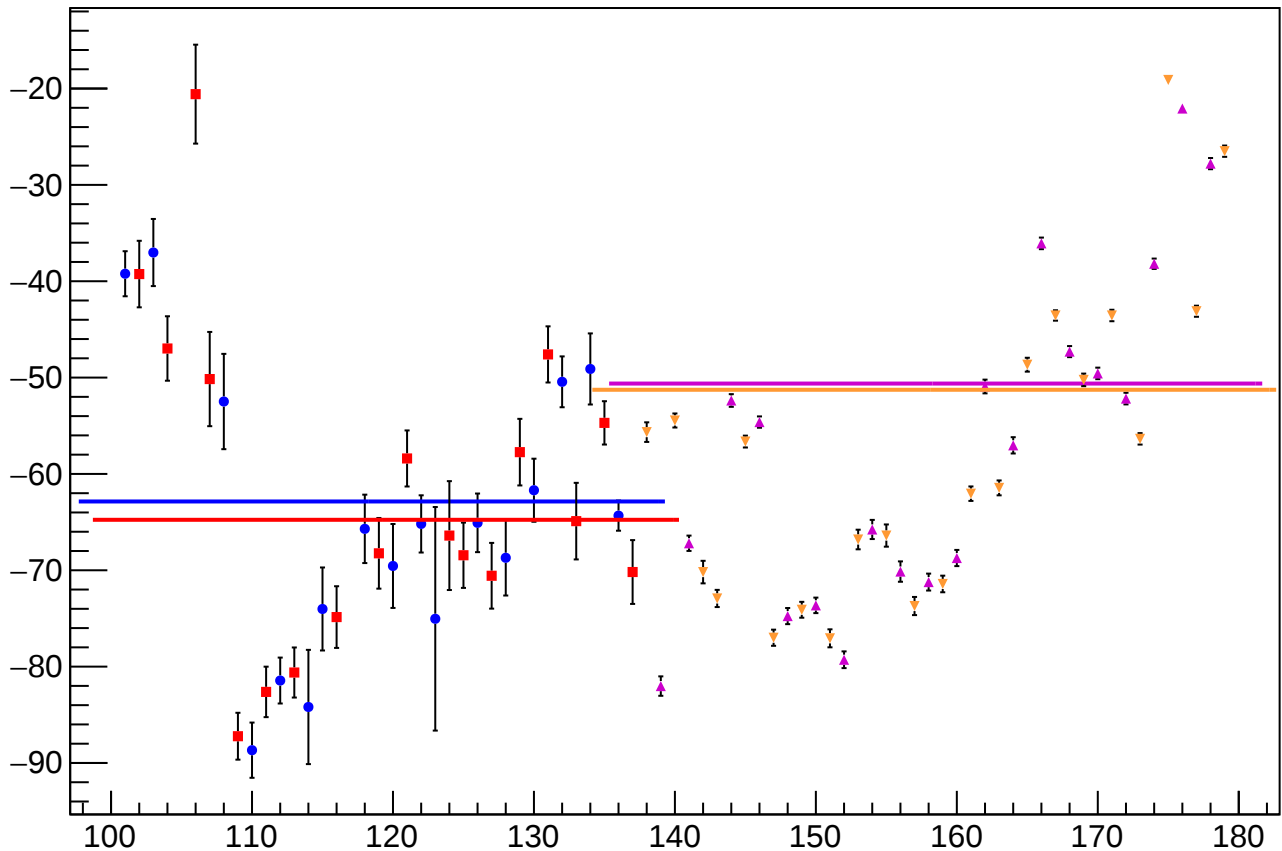
Right:  $-3.797 \pm 0.295$   $\chi^2/\text{NDF}$ : 583.0/34

In:  $1.260 \pm 0.114$   $\chi^2/\text{NDF}$ : 2906.1/36

Out:  $1.527 \pm 0.112$   $\chi^2/\text{NDF}$ : 4267.8/39

All:  $1.396 \pm 0.080$   $\chi^2/\text{NDF}$ : 7176.7/76

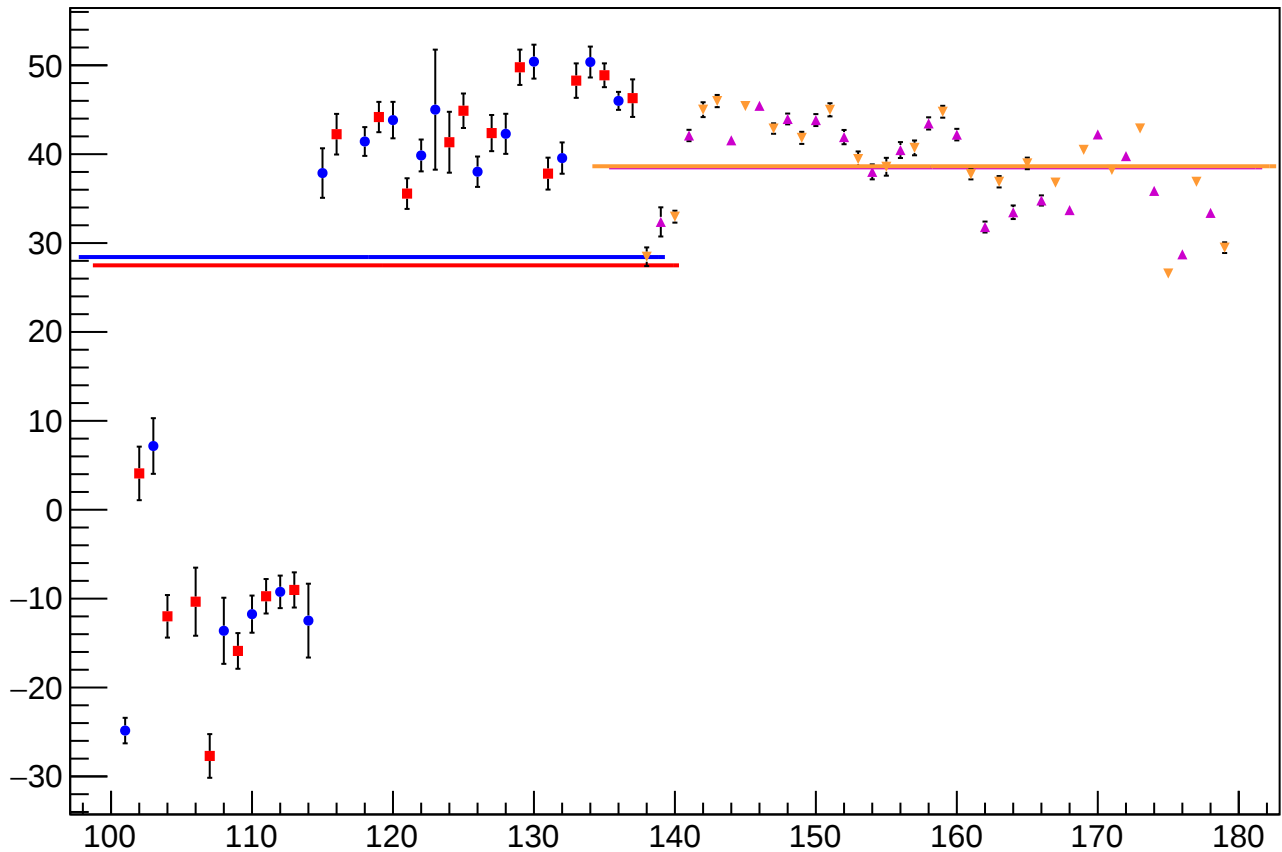
reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.858 \pm 0.739$   $\chi^2/\text{NDF}$ : 367.7/16  
 Left Out:  $-51.265 \pm 0.153$   $\chi^2/\text{NDF}$ : 12361.0/21  
 Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}$ : 416.1/17  
 Left In:  $-50.620 \pm 0.155$   $\chi^2/\text{NDF}$ : 11860.2/19

Left:  $-50.946 \pm 0.109$   $\chi^2/\text{NDF}$ : 24230.0/41  
 Right:  $-63.792 \pm 0.527$   $\chi^2/\text{NDF}$ : 787.1/34  
 In:  $-51.133 \pm 0.151$   $\chi^2/\text{NDF}$ : 12490.7/36  
 Out:  $-51.799 \pm 0.150$   $\chi^2/\text{NDF}$ : 13085.7/39  
 All:  $-51.469 \pm 0.106$   $\chi^2/\text{NDF}$ : 25586.2/76

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $28.426 \pm 0.458$   $\chi^2/\text{NDF}$ : 3322.4/16

Left Out:  $38.640 \pm 0.132$   $\chi^2/\text{NDF}$ : 1729.1/21

Right Out:  $27.493 \pm 0.479$   $\chi^2/\text{NDF}$ : 3027.8/17

Left In:  $38.516 \pm 0.134$   $\chi^2/\text{NDF}$ : 1392.7/19

Left:  $38.579 \pm 0.094$   $\chi^2/\text{NDF}$ : 3122.2/41

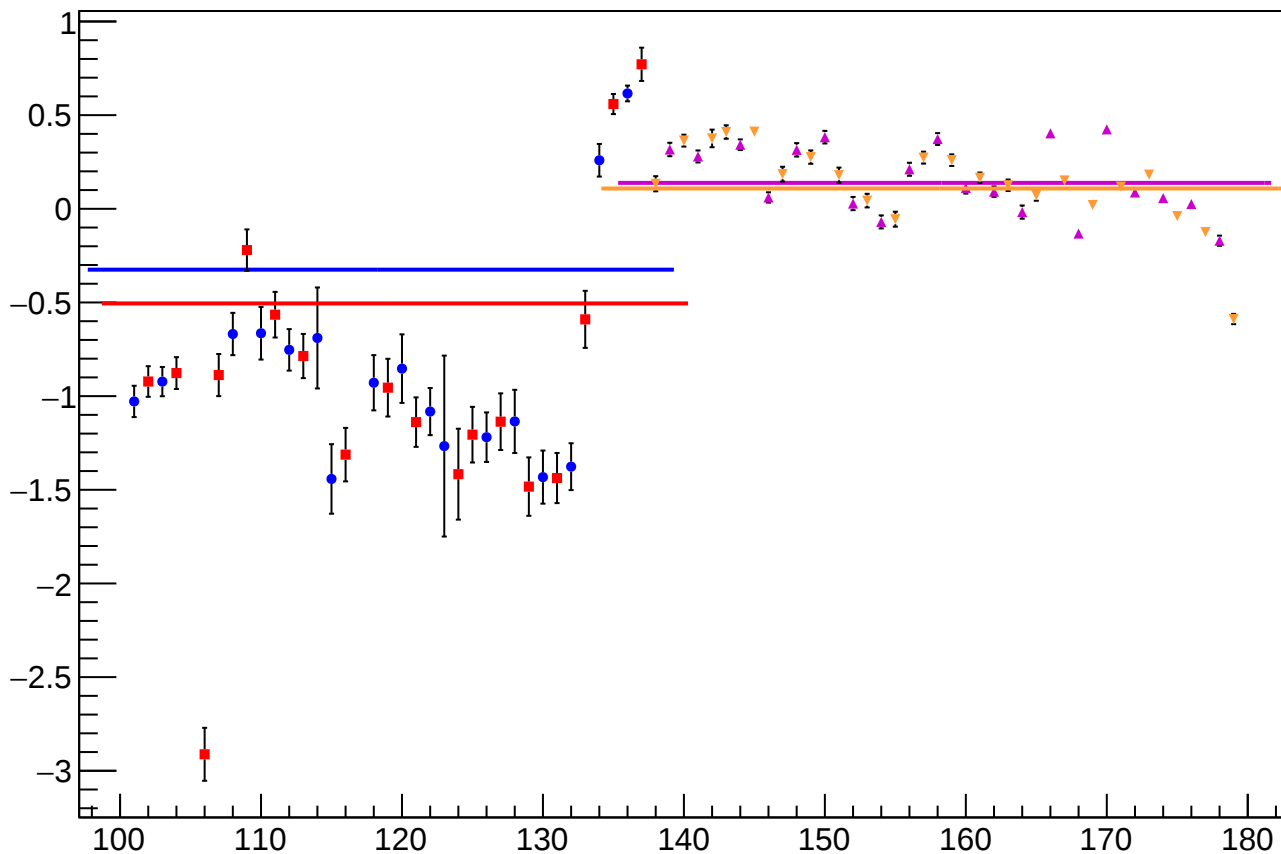
Right:  $27.980 \pm 0.331$   $\chi^2/\text{NDF}$ : 6352.1/34

In:  $37.718 \pm 0.129$   $\chi^2/\text{NDF}$ : 5162.4/36

Out:  $37.857 \pm 0.127$   $\chi^2/\text{NDF}$ : 5260.9/39

All:  $37.788 \pm 0.090$   $\chi^2/\text{NDF}$ : 10423.9/76

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.325 \pm 0.025$   $\chi^2/\text{NDF}$ : 1011.7/16

Left Out:  $0.108 \pm 0.006$   $\chi^2/\text{NDF}$ : 1263.5/21

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

Left In:  $0.138 \pm 0.006$   $\chi^2/\text{NDF}$ : 913.5/19

Left:  $0.123 \pm 0.004$   $\chi^2/\text{NDF}$ : 2189.1/41

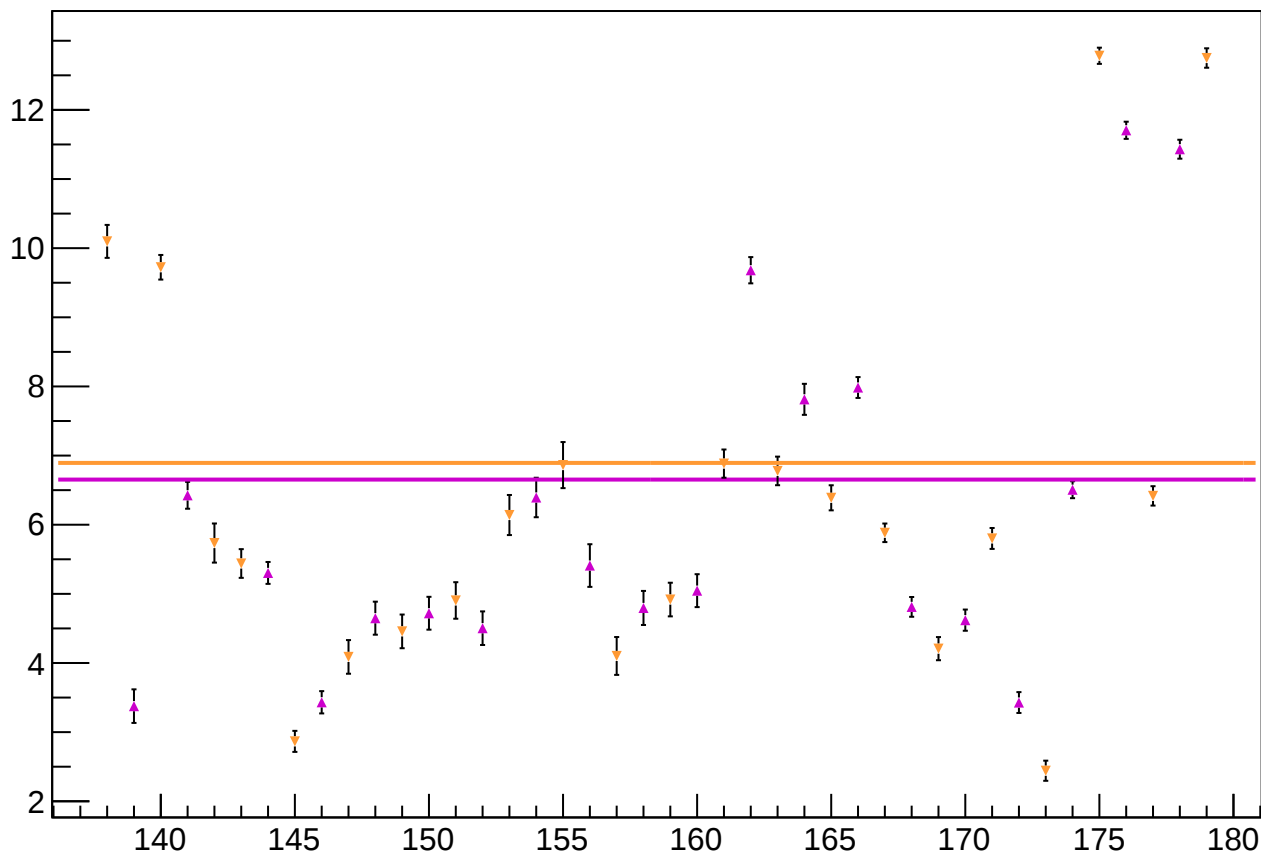
Right:  $-0.412 \pm 0.018$   $\chi^2/\text{NDF}$ : 2200.3/34

In:  $0.112 \pm 0.006$   $\chi^2/\text{NDF}$ : 2251.2/36

Out:  $0.076 \pm 0.006$   $\chi^2/\text{NDF}$ : 2963.9/39

All:  $0.094 \pm 0.004$   $\chi^2/\text{NDF}$ : 5233.4/76

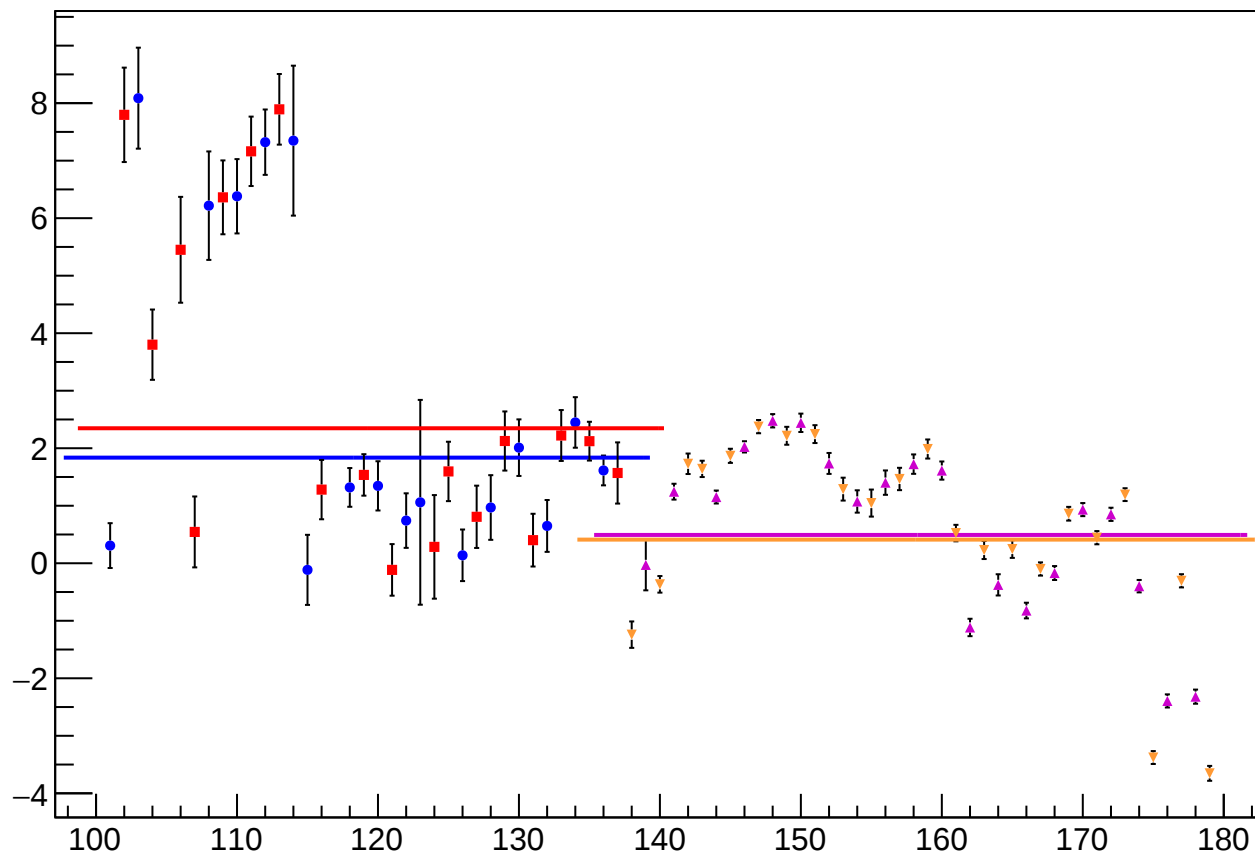
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.894 $\pm$ 0.039  $\chi^2/\text{NDF}$ :7251.0/21  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.653 $\pm$ 0.039  $\chi^2/\text{NDF}$ :5023.8/19

Left: 6.775 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 12293.8/41  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 6.653 $\pm$ 0.039  $\chi^2/\text{NDF}$ :5023.8/19  
 Out: 6.894 $\pm$ 0.039  $\chi^2/\text{NDF}$ :7251.0/21  
 All: 6.775 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 12293.8/41

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.837 $\pm$ 0.116  $\chi^2$ /NDF: 294.1/16

Left Out: 0.411 $\pm$ 0.030  $\chi^2$ /NDF:3309.6/21

Right Out: 2.347 $\pm$ 0.123  $\chi^2$ /NDF: 329.8/17

Left In: 0.492 $\pm$ 0.030  $\chi^2$ /NDF:2439.6/19

Left: 0.451 $\pm$ 0.021  $\chi^2$ /NDF: 5752.8/41

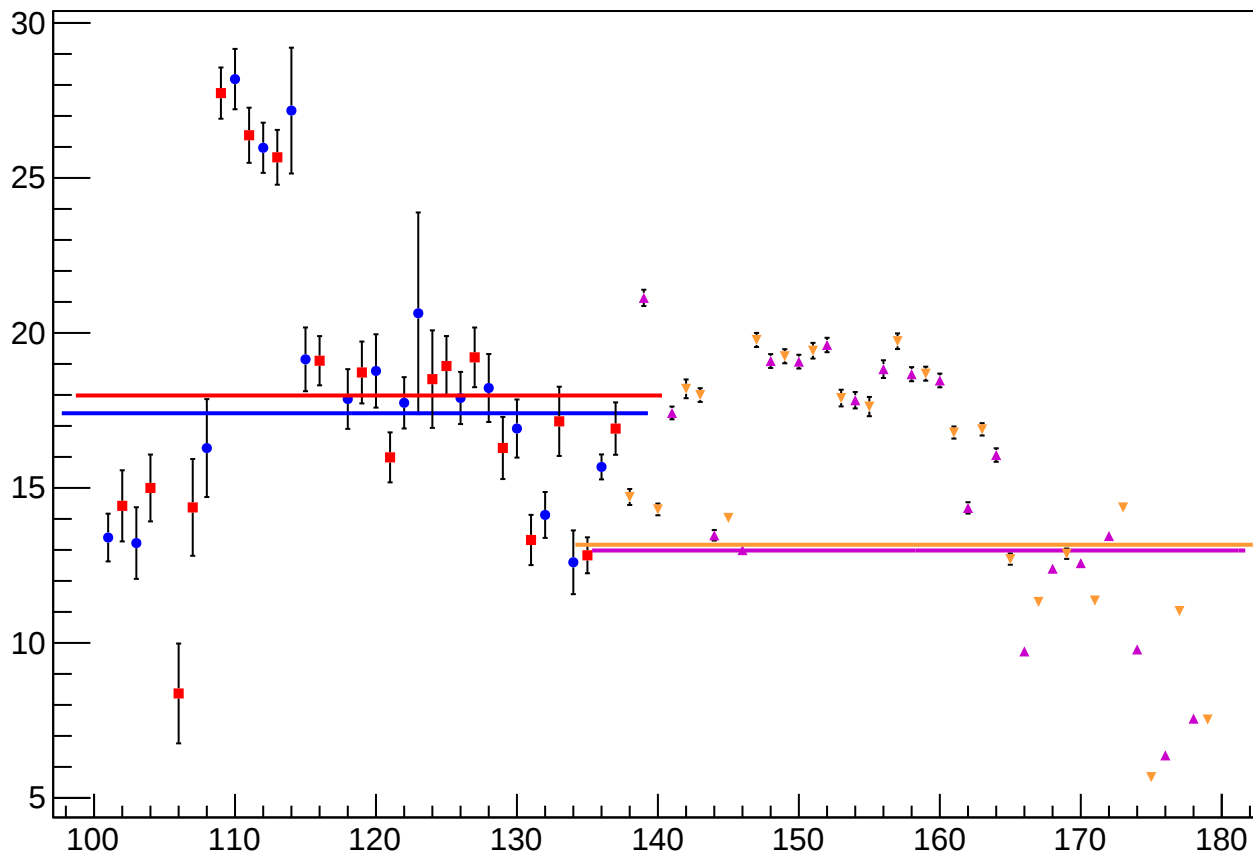
Right: 2.078 $\pm$ 0.084  $\chi^2$ /NDF: 633.0/34

In: 0.578 $\pm$ 0.029  $\chi^2$ /NDF:2859.0/36

Out: 0.519 $\pm$ 0.029  $\chi^2$ /NDF:3875.0/39

All: 0.548 $\pm$ 0.021  $\chi^2$ /NDF: 6736.1/76

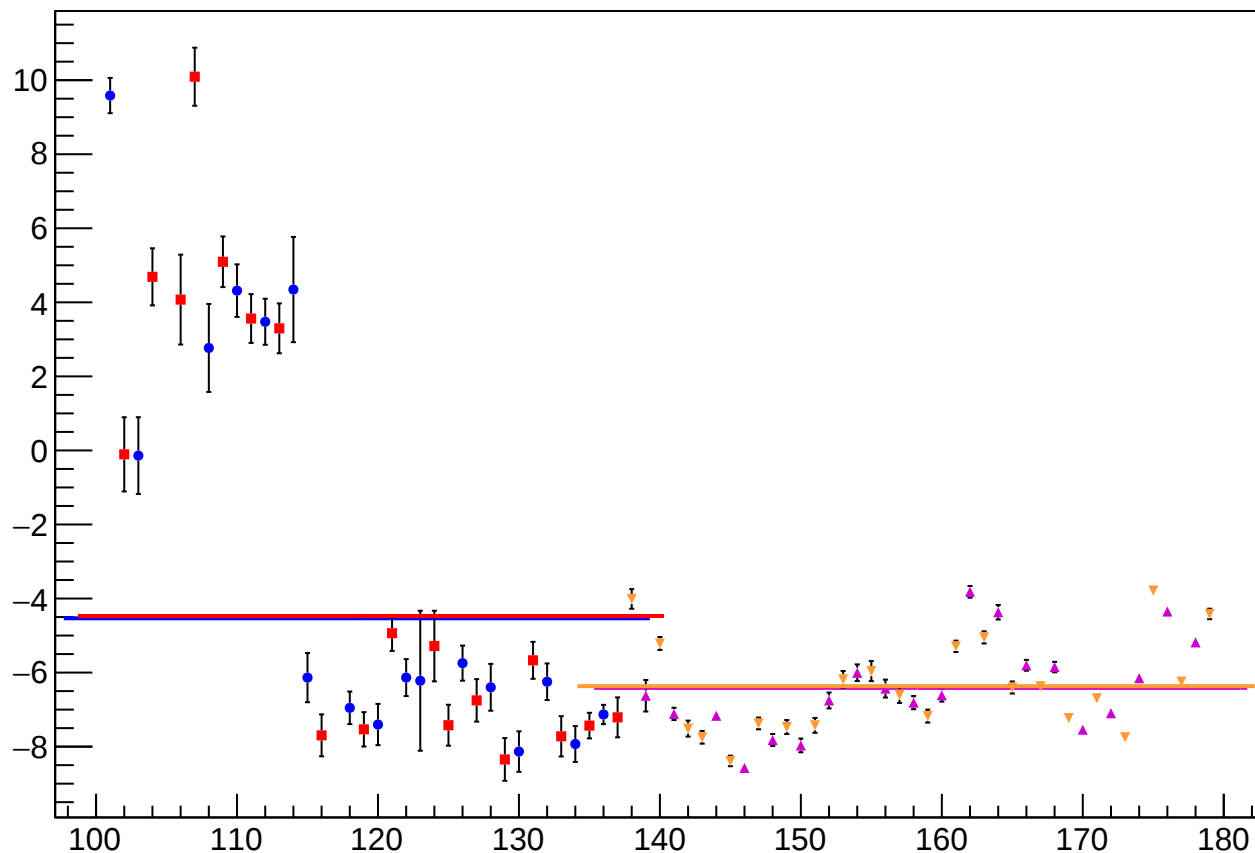
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.409 $\pm$ 0.212  $\chi^2$ /NDF: 365.1/16  
 Left Out: 13.167 $\pm$ 0.039  $\chi^2$ /NDF:11873.1/21  
 Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17  
 Left In: 12.981 $\pm$ 0.039  $\chi^2$ /NDF:11535.1/19

Left: 13.075 $\pm$ 0.028  $\chi^2$ /NDF: 23419.4/41  
 Right: 17.686 $\pm$ 0.152  $\chi^2$ /NDF: 859.3/34  
 In: 13.130 $\pm$ 0.039  $\chi^2$ /NDF:12321.9/36  
 Out: 13.314 $\pm$ 0.038  $\chi^2$ /NDF:12831.2/39  
 All: 13.223 $\pm$ 0.027  $\chi^2$ /NDF: 25164.5/76

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-4.533 \pm 0.130$   $\chi^2/\text{NDF}$ : 1588.4/16

Left Out:  $-6.367 \pm 0.034$   $\chi^2/\text{NDF}$ : 1508.8/21

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

Left In:  $-6.412 \pm 0.034$   $\chi^2/\text{NDF}$ : 1411.1/19

Left:  $-6.389 \pm 0.024$   $\chi^2/\text{NDF}$ : 2920.8/41

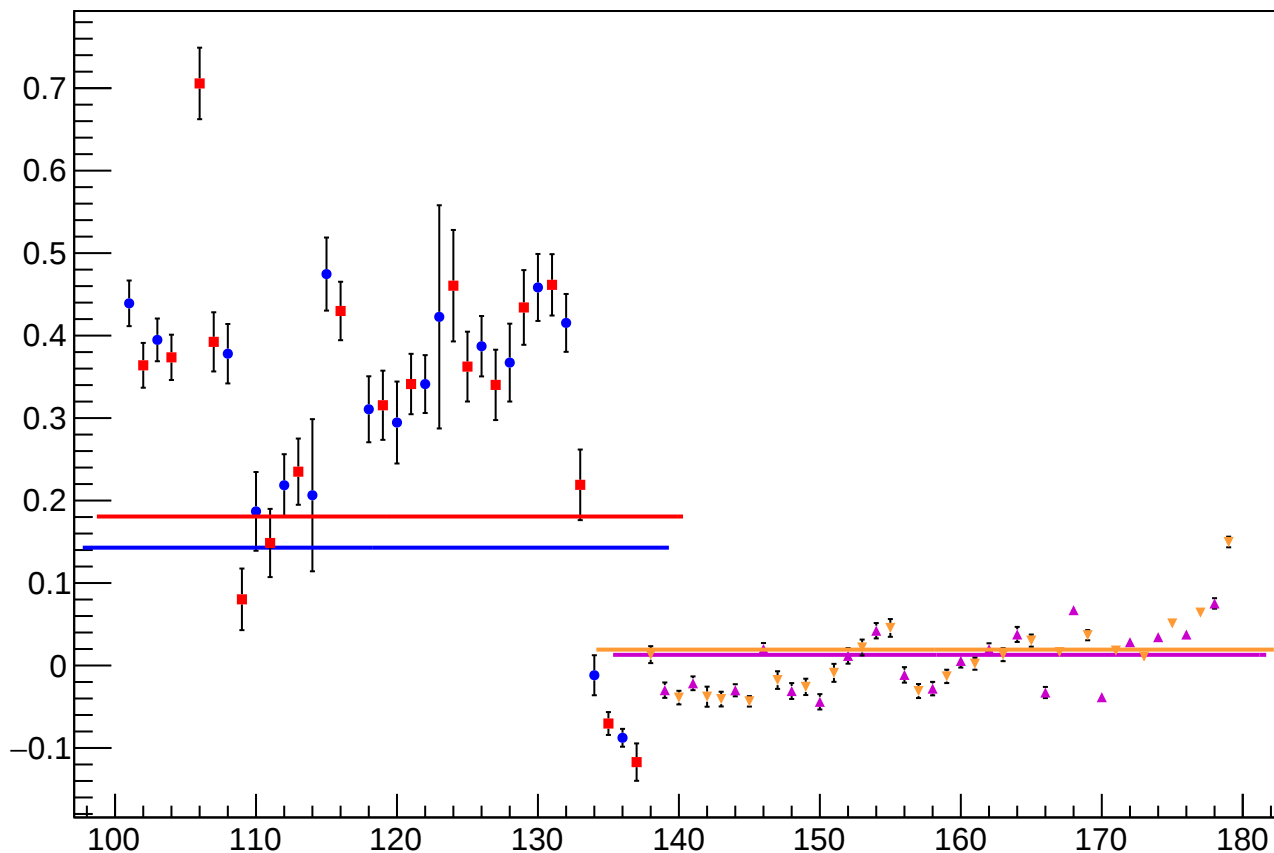
Right:  $-4.504 \pm 0.094$   $\chi^2/\text{NDF}$ : 2927.8/34

In:  $-6.289 \pm 0.033$   $\chi^2/\text{NDF}$ : 3195.7/36

Out:  $-6.259 \pm 0.033$   $\chi^2/\text{NDF}$ : 3028.9/39

All:  $-6.274 \pm 0.023$   $\chi^2/\text{NDF}$ : 6225.0/76

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.143 \pm 0.007$   $\chi^2/\text{NDF}: 1058.9/16$

Left Out:  $0.019 \pm 0.002$   $\chi^2/\text{NDF}: 842.8/21$

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}: 1003.7/17$

Left In:  $0.013 \pm 0.002$   $\chi^2/\text{NDF}: 554.6/19$

Left:  $0.016 \pm 0.001$   $\chi^2/\text{NDF}: 1405.6/41$

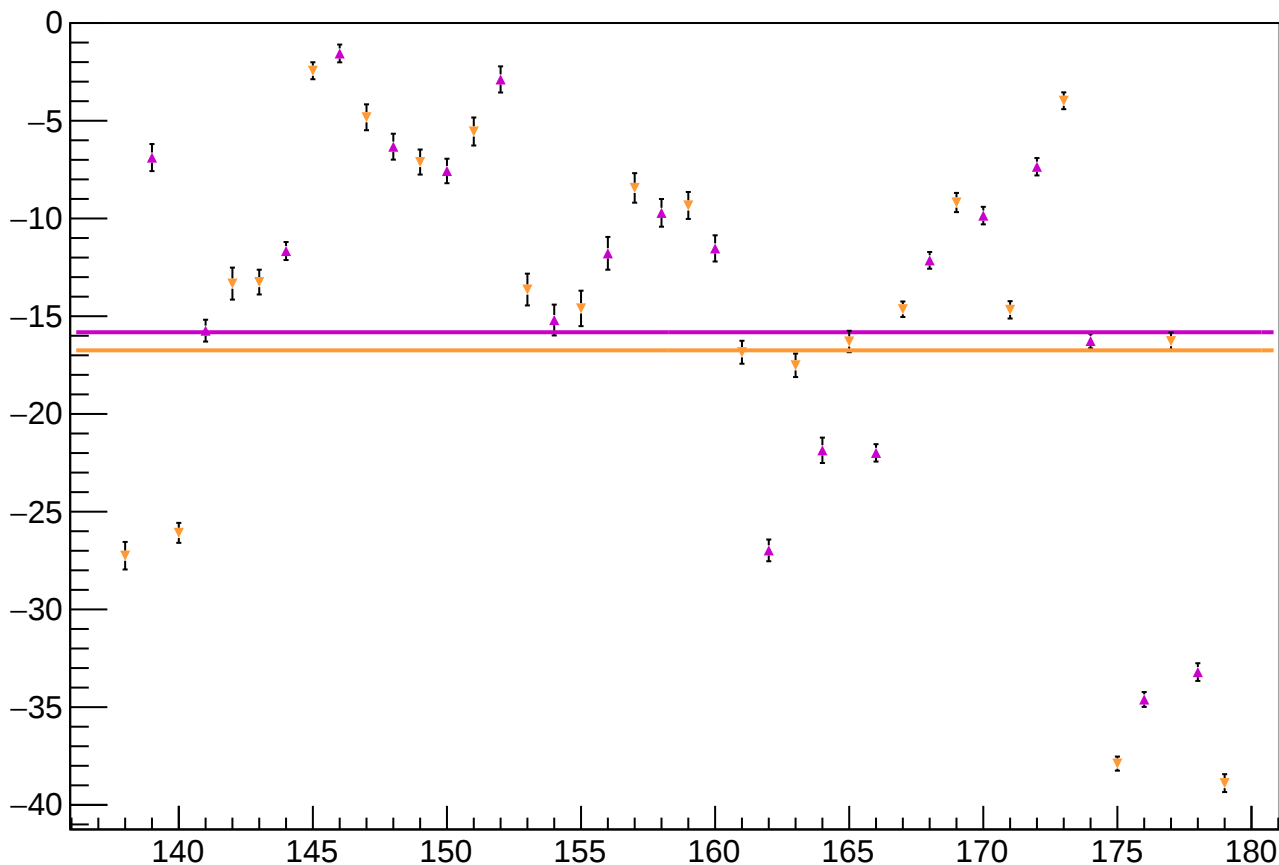
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}: 2076.2/34$

In:  $0.019 \pm 0.002$   $\chi^2/\text{NDF}: 1936.7/36$

Out:  $0.026 \pm 0.002$   $\chi^2/\text{NDF}: 2301.6/39$

All:  $0.023 \pm 0.001$   $\chi^2/\text{NDF}: 4248.8/76$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



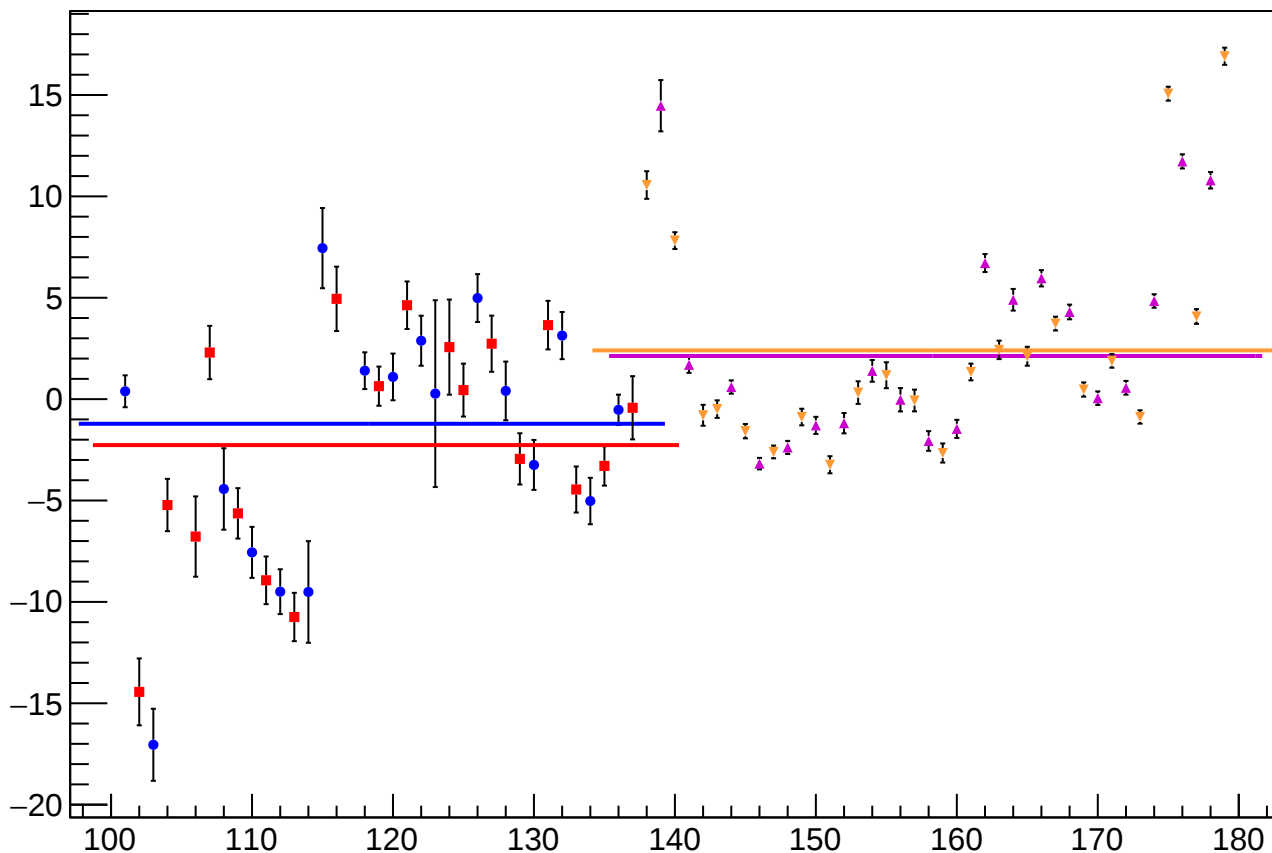
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -16.746+/-0.115  $\chi^2/\text{NDF}$ :9690.1/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -15.820+/-0.116  $\chi^2/\text{NDF}$ :7346.2/19

Left: -16.288+/-0.082  $\chi^2/\text{NDF}$ : 17068.4/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.820+/-0.116  $\chi^2/\text{NDF}$ :7346.2/19  
 Out: -16.746+/-0.115  $\chi^2/\text{NDF}$ :9690.1/21

All: -16.288+/-0.082  $\chi^2/\text{NDF}$ : 17068.4/41

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.215 \pm 0.290$   $\chi^2/\text{NDF}$ : 278.7/16

Left Out:  $2.404 \pm 0.087$   $\chi^2/\text{NDF}$ : 3867.0/21

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

Left In:  $2.128 \pm 0.089$   $\chi^2/\text{NDF}$ : 2523.9/19

Left:  $2.269 \pm 0.062$   $\chi^2/\text{NDF}$ : 6395.9/41

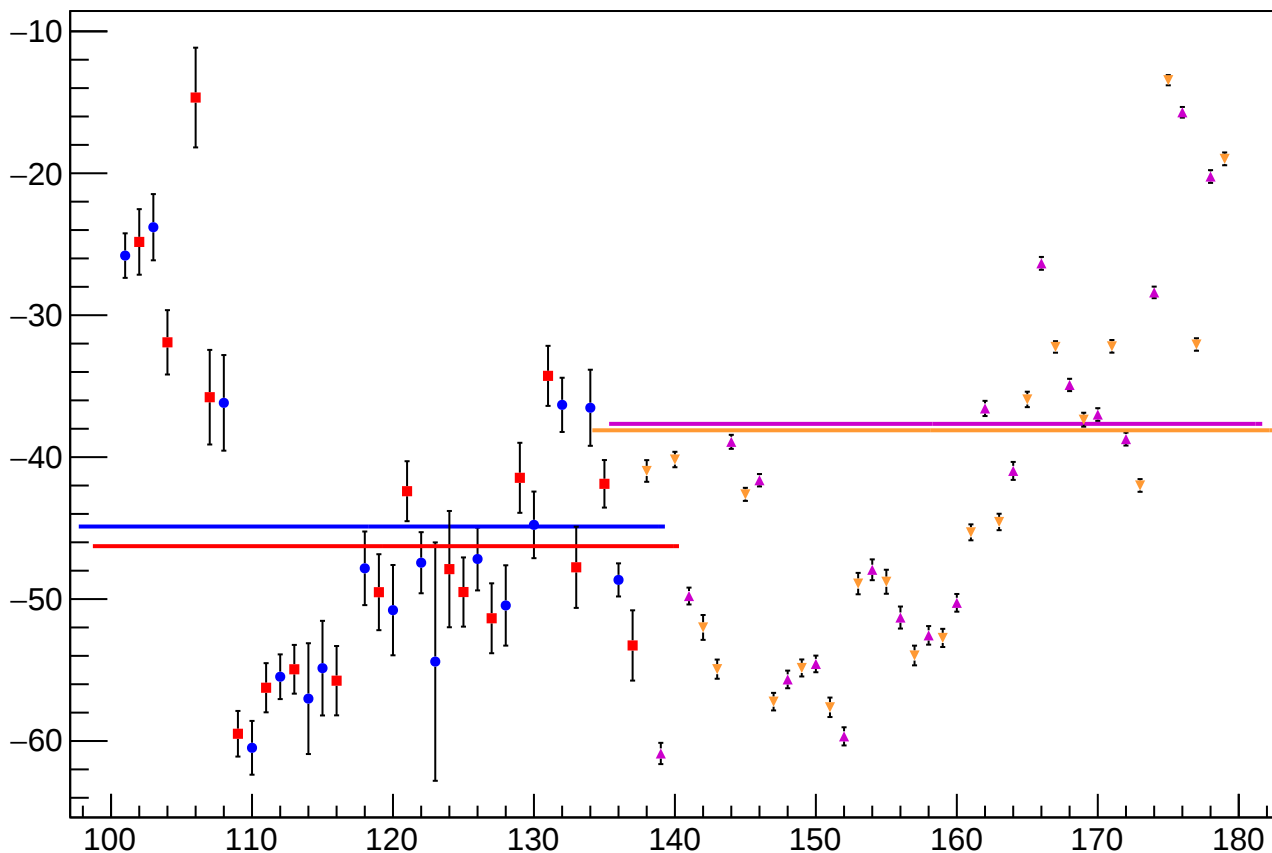
Right:  $-1.720 \pm 0.209$   $\chi^2/\text{NDF}$ : 568.9/34

In:  $1.842 \pm 0.085$   $\chi^2/\text{NDF}$ : 2923.9/36

Out:  $2.047 \pm 0.084$   $\chi^2/\text{NDF}$ : 4371.2/39

All:  $1.946 \pm 0.060$   $\chi^2/\text{NDF}$ : 7298.0/76

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-44.888 \pm 0.523$   $\chi^2/\text{NDF}$ : 420.4/16  
 Left Out:  $-38.109 \pm 0.115$   $\chi^2/\text{NDF}$ : 12369.0/21  
 Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17  
 Left In:  $-37.655 \pm 0.116$   $\chi^2/\text{NDF}$ : 11891.9/19

Left:  $-37.884 \pm 0.082$   $\chi^2/\text{NDF}$ : 24268.7/41

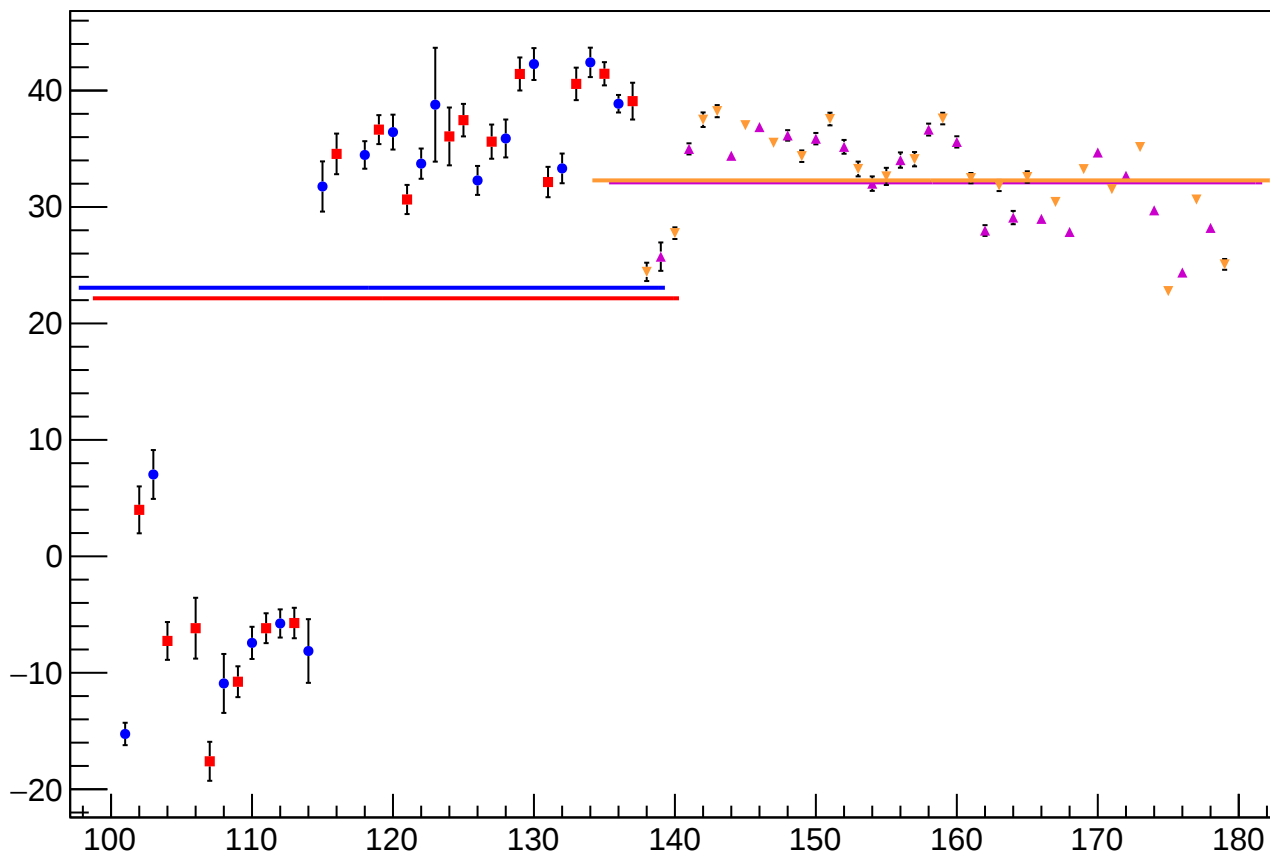
Right:  $-45.572 \pm 0.372$   $\chi^2/\text{NDF}$ : 844.4/34

In:  $-37.994 \pm 0.113$   $\chi^2/\text{NDF}$ : 12494.4/36

Out:  $-38.475 \pm 0.112$   $\chi^2/\text{NDF}$ : 13016.6/39

All:  $-38.237 \pm 0.080$   $\chi^2/\text{NDF}$ : 25520.1/76

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.066 $\pm$ 0.327  $\chi^2$ /NDF: 4333.5/16

Left Out: 32.285 $\pm$ 0.099  $\chi^2$ /NDF:1854.9/21

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

Left In: 32.114 $\pm$ 0.101  $\chi^2$ /NDF:1449.0/19

Left: 32.201 $\pm$ 0.070  $\chi^2$ /NDF: 3305.3/41

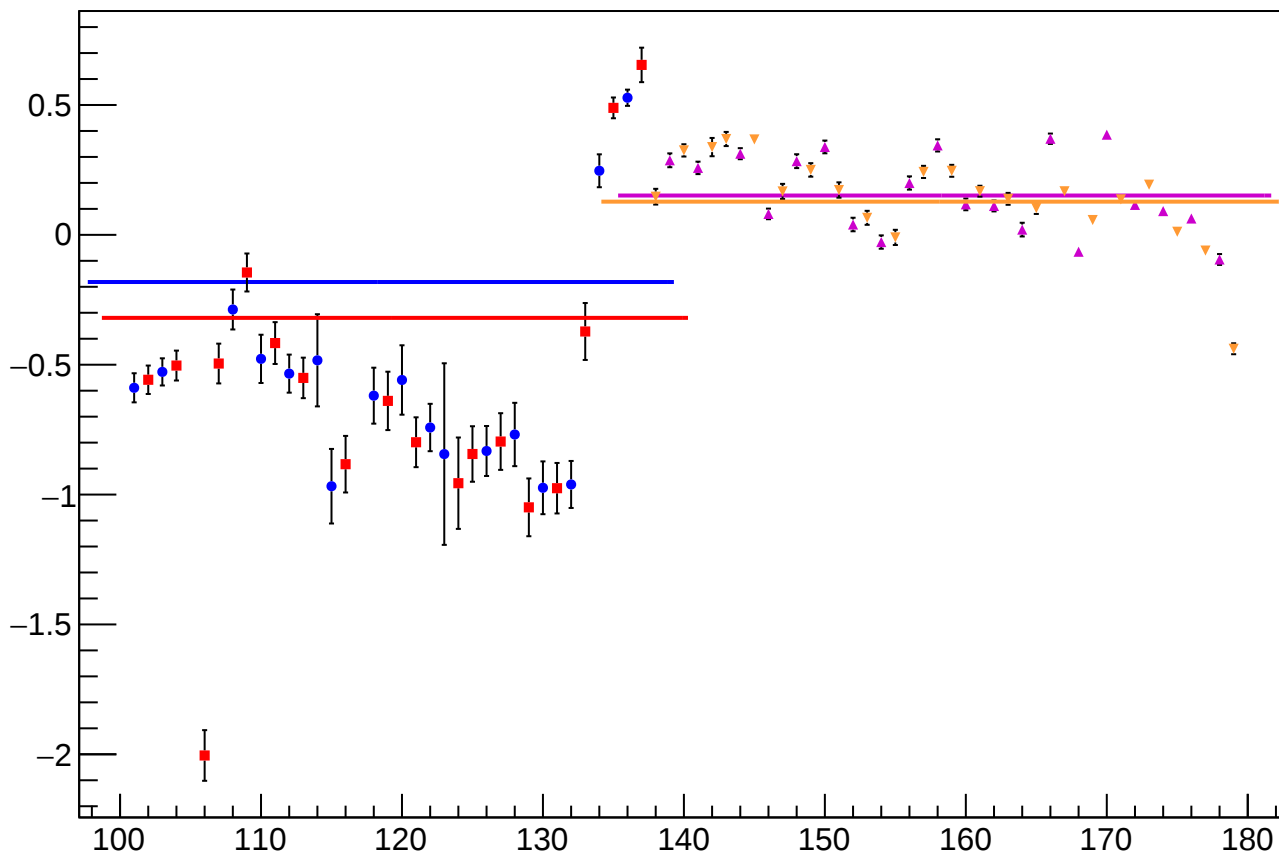
Right: 22.631 $\pm$ 0.236  $\chi^2$ /NDF: 8362.7/34

In: 31.329 $\pm$ 0.096  $\chi^2$ /NDF:6483.7/36

Out: 31.498 $\pm$ 0.095  $\chi^2$ /NDF:6698.3/39

All: 31.415 $\pm$ 0.068  $\chi^2$ /NDF: 13183.6/76

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.182 \pm 0.018$   $\chi^2/\text{NDF}$ : 996.9/16

Left Out:  $0.128 \pm 0.005$   $\chi^2/\text{NDF}$ : 1401.8/21

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

Left In:  $0.151 \pm 0.005$   $\chi^2/\text{NDF}$ : 1054.3/19

Left:  $0.140 \pm 0.003$   $\chi^2/\text{NDF}$ : 2469.3/41

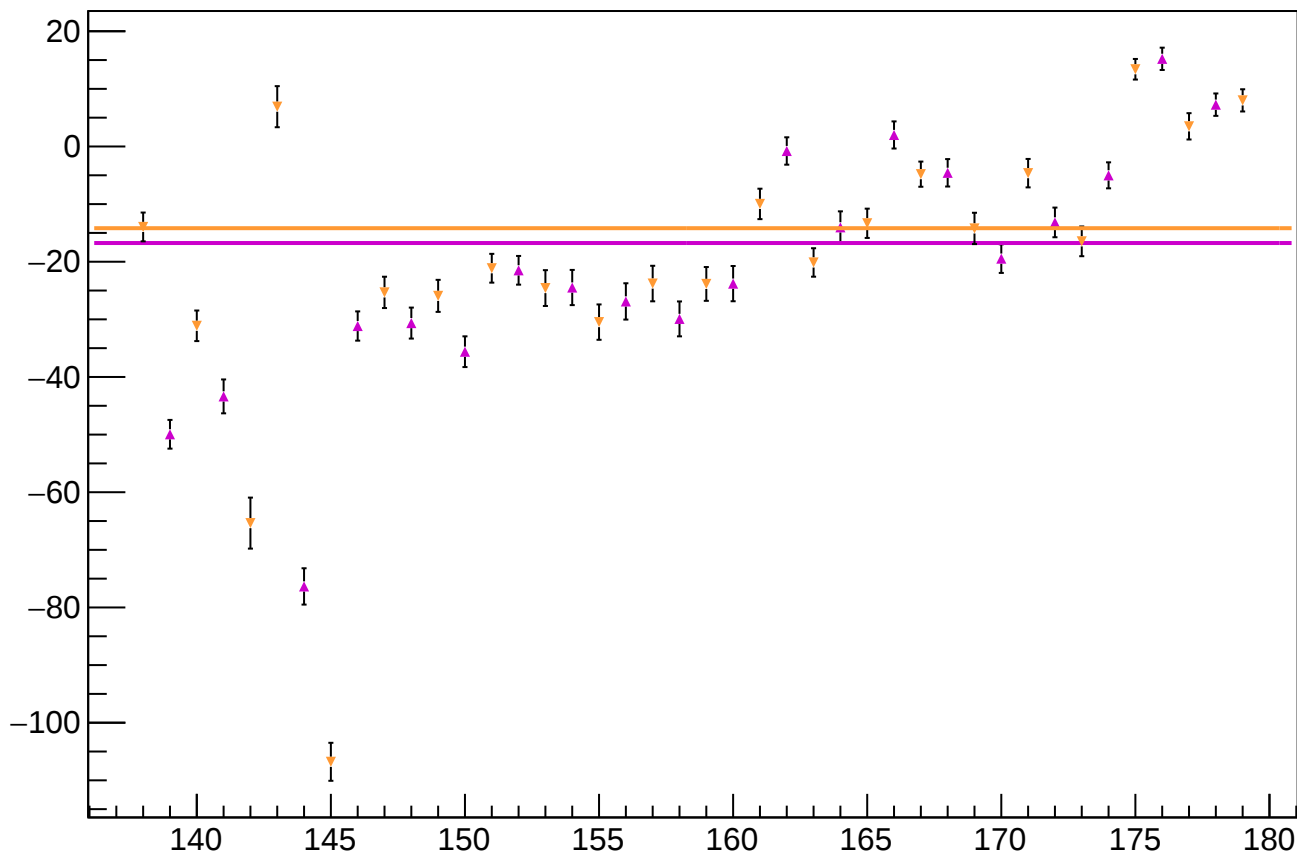
Right:  $-0.249 \pm 0.013$   $\chi^2/\text{NDF}$ : 2203.9/34

In:  $0.130 \pm 0.004$   $\chi^2/\text{NDF}$ : 2381.3/36

Out:  $0.101 \pm 0.004$   $\chi^2/\text{NDF}$ : 3147.4/39

All:  $0.116 \pm 0.003$   $\chi^2/\text{NDF}$ : 5549.9/76

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected

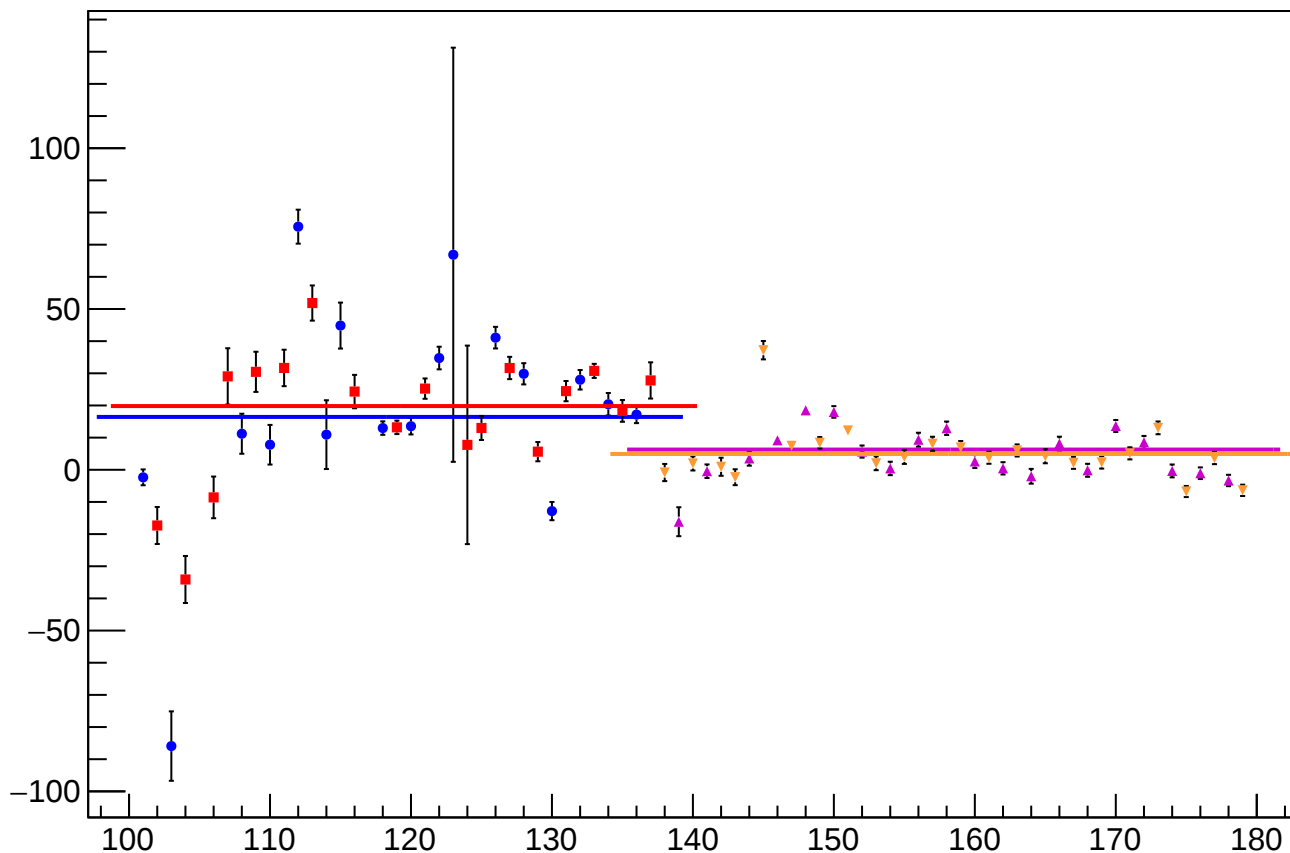


Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-14.180 \pm 0.553$   $\chi^2/\text{NDF}: 1573.9/21$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-16.754 \pm 0.568$   $\chi^2/\text{NDF}: 1361.7/19$

Left:  $-15.432 \pm 0.396$   $\chi^2/\text{NDF}: 2946.2/41$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-16.754 \pm 0.568$   $\chi^2/\text{NDF}: 1361.7/19$   
 Out:  $-14.180 \pm 0.553$   $\chi^2/\text{NDF}: 1573.9/21$

All:  $-15.432 \pm 0.396$   $\chi^2/\text{NDF}: 2946.2/41$

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 16.439 $\pm$ 0.849  $\chi^2$ /NDF: 516.9/16

Left Out: 4.921 $\pm$ 0.414  $\chi^2$ /NDF: 292.4/21

Right Out: 19.813 $\pm$ 0.899  $\chi^2$ /NDF: 238.5/17

Left In: 6.292 $\pm$ 0.432  $\chi^2$ /NDF: 300.0/19

Left: 5.577 $\pm$ 0.299  $\chi^2$ /NDF: 597.7/41

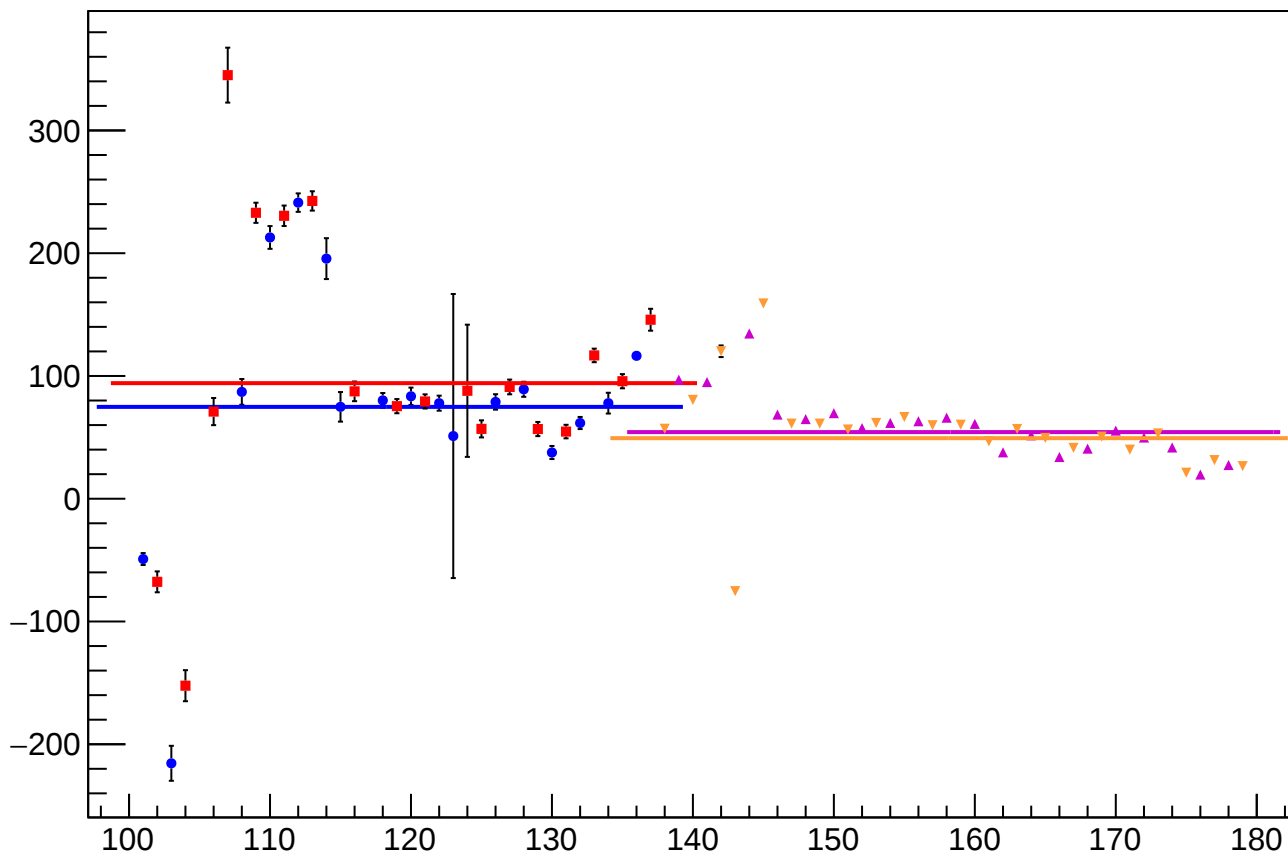
Right: 18.028 $\pm$ 0.617  $\chi^2$ /NDF: 762.9/34

In: 8.382 $\pm$ 0.385  $\chi^2$ /NDF: 930.5/36

Out: 7.523 $\pm$ 0.376  $\chi^2$ /NDF: 757.2/39

All: 7.942 $\pm$ 0.269  $\chi^2$ /NDF: 1690.3/76

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 74.824+/-1.639  $\chi^2/\text{NDF}$ : 1996.8/16

Left Out: 49.335+/-0.546  $\chi^2/\text{NDF}$ : 3084.8/21

Right Out: 94.153+/-1.720  $\chi^2/\text{NDF}$ : 1969.2/17

Left In: 54.282+/-0.561  $\chi^2/\text{NDF}$ : 1824.1/19

Left: 51.742+/-0.392  $\chi^2/\text{NDF}$ : 4948.8/41

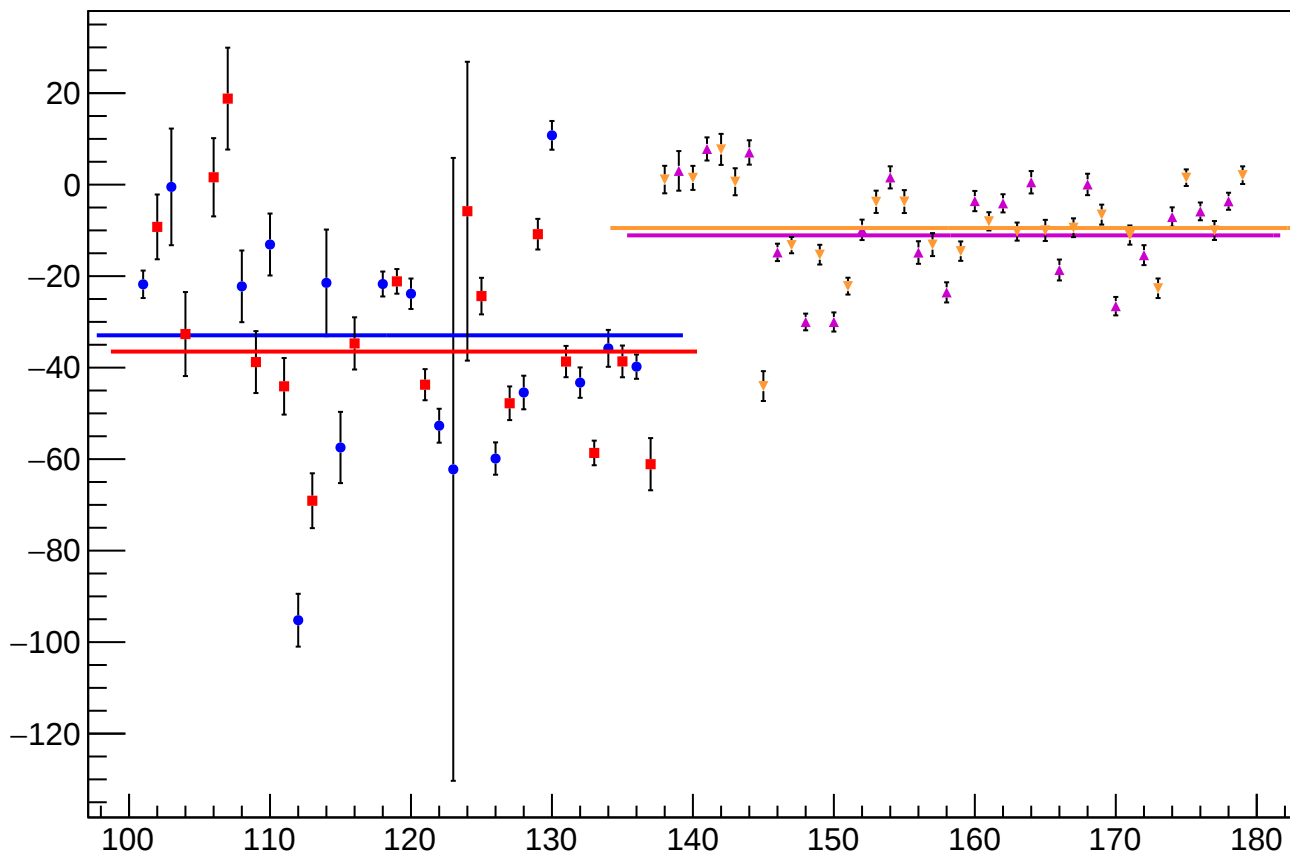
Right: 84.020+/-1.186  $\chi^2/\text{NDF}$ : 4032.2/34

In: 56.439+/-0.531  $\chi^2/\text{NDF}$ : 3961.6/36

Out: 53.443+/-0.521  $\chi^2/\text{NDF}$ : 5670.7/39

All: 54.912+/-0.372  $\chi^2/\text{NDF}$ : 9648.5/76

reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-9.483 \pm 0.472$   $\chi^2/\text{NDF}$ : 371.1/21

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

Left In:  $-11.089 \pm 0.492$   $\chi^2/\text{NDF}$ : 537.7/19

Left:  $-10.254 \pm 0.341$   $\chi^2/\text{NDF}$ : 914.3/41

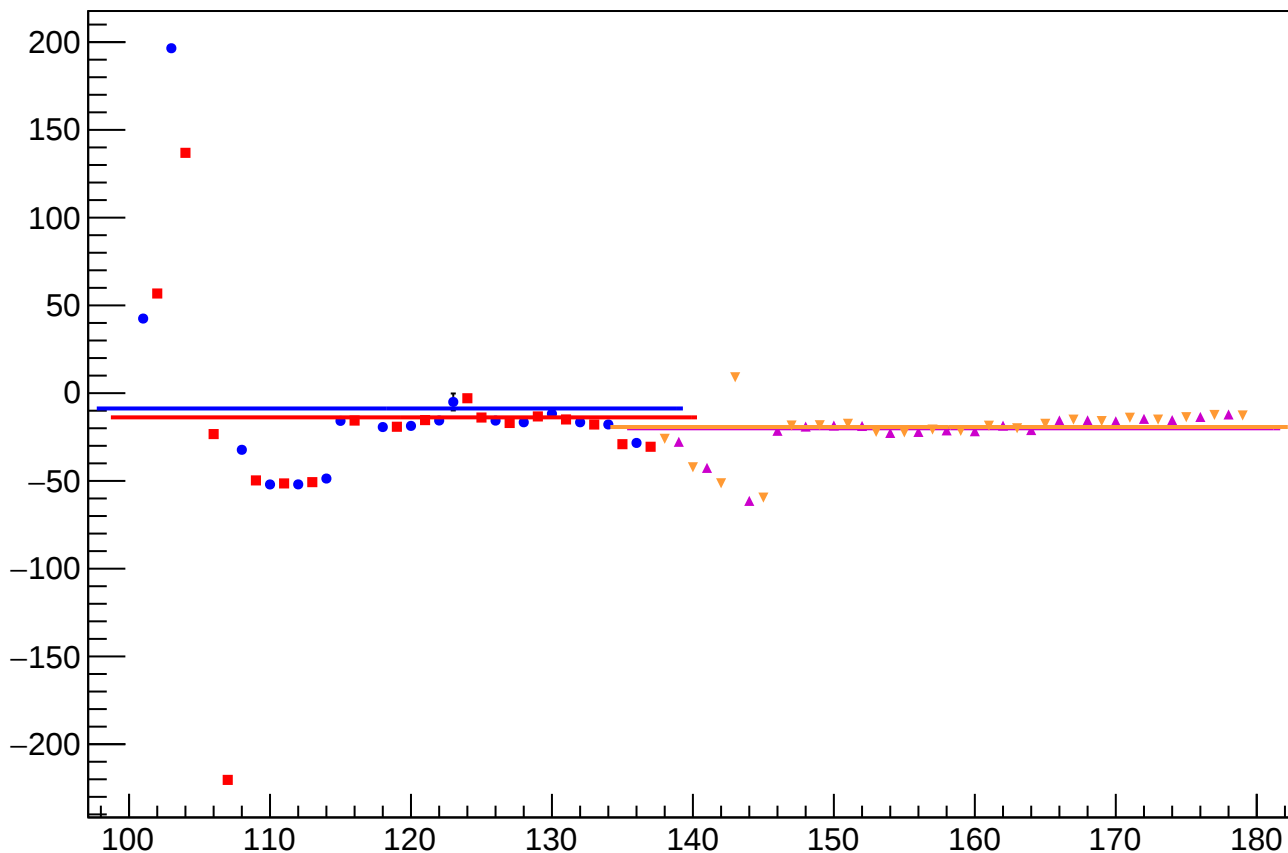
Right:  $-34.617 \pm 0.706$   $\chi^2/\text{NDF}$ : 790.3/34

In:  $-15.535 \pm 0.439$   $\chi^2/\text{NDF}$ : 1429.7/36

Out:  $-14.202 \pm 0.429$   $\chi^2/\text{NDF}$ : 1235.3/39

All:  $-14.853 \pm 0.307$   $\chi^2/\text{NDF}$ : 2669.7/76

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-19.288 \pm 0.022$   $\chi^2/\text{NDF}: 218447.1/21$

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}: 549380.2/17$

Left In:  $-20.030 \pm 0.022$   $\chi^2/\text{NDF}: 145467.2/19$

Left:  $-19.652 \pm 0.016$   $\chi^2/\text{NDF}: 364482.1/41$

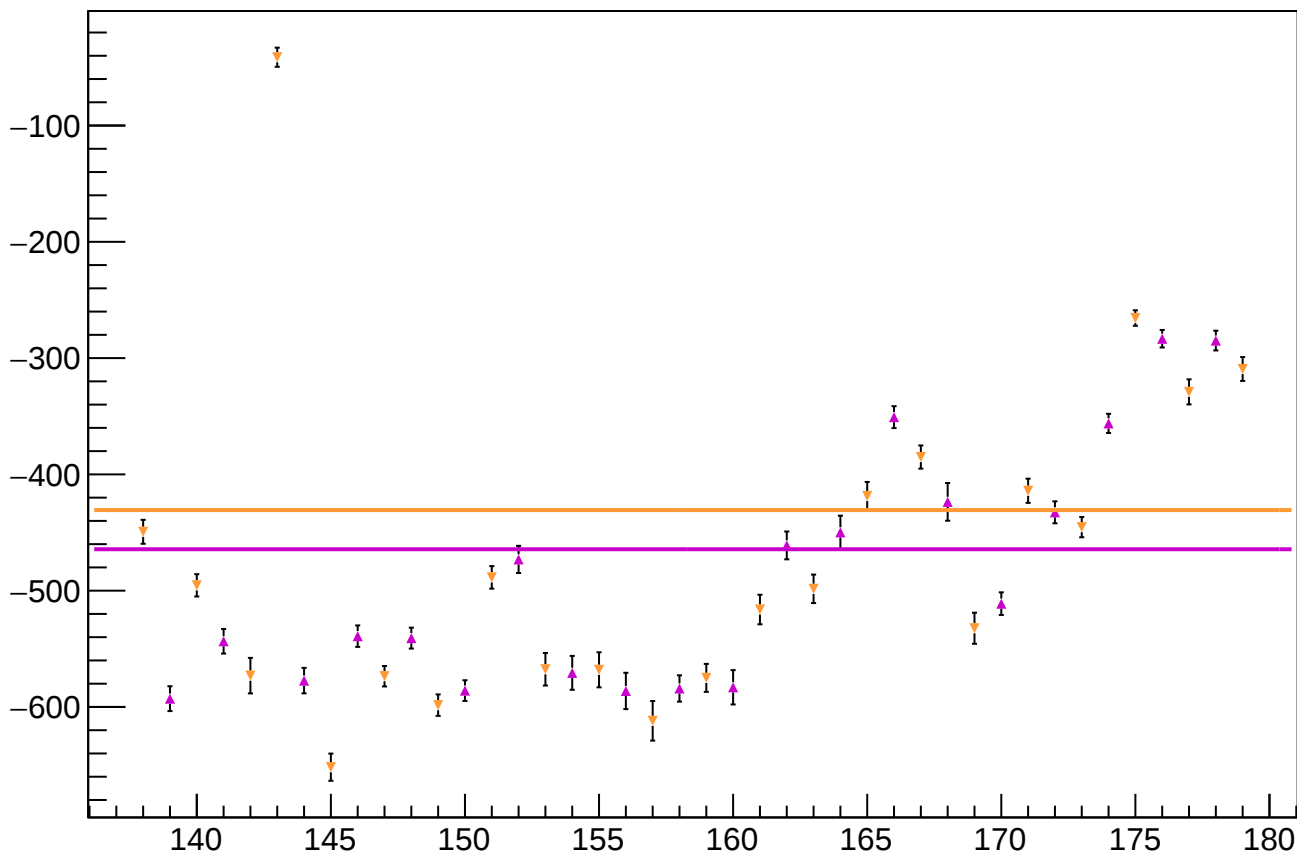
Right:  $-11.121 \pm 0.043$   $\chi^2/\text{NDF}: 1128724.7/34$

In:  $-18.618 \pm 0.021$   $\chi^2/\text{NDF}: 753592.9/36$

Out:  $-18.684 \pm 0.021$   $\chi^2/\text{NDF}: 774799.5/39$

All:  $-18.652 \pm 0.015$   $\chi^2/\text{NDF}: 1528397.5/76$

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: -430.696+/-2.234  $\chi^2/\text{NDF}$ :4807.4/21

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

Left In: -464.374+/-2.316  $\chi^2/\text{NDF}$ :2309.8/19

Left: -446.925+/-1.608  $\chi^2/\text{NDF}$ : 7226.7/41

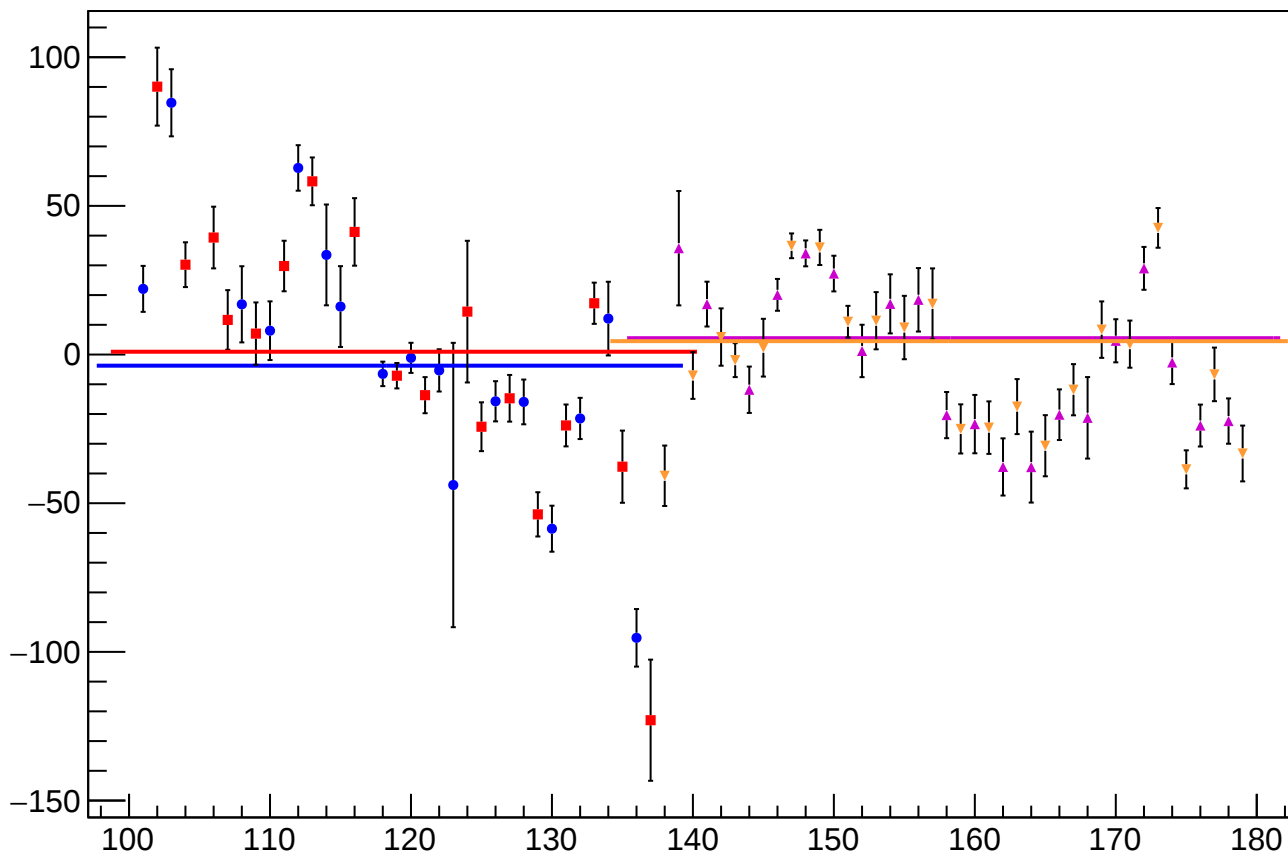
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -464.374+/-2.316  $\chi^2/\text{NDF}$ :2309.8/19

Out: -430.696+/-2.234  $\chi^2/\text{NDF}$ :4807.4/21

All: -446.925+/-1.608  $\chi^2/\text{NDF}$ : 7226.7/41

reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.743 \pm 1.892$   $\chi^2/\text{NDF}$ : 314.1/16

Left Out:  $4.507 \pm 1.610$   $\chi^2/\text{NDF}$ : 254.9/21

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

Left In:  $5.502 \pm 1.709$   $\chi^2/\text{NDF}$ : 185.1/19

Left:  $4.974 \pm 1.172$   $\chi^2/\text{NDF}$ : 440.1/41

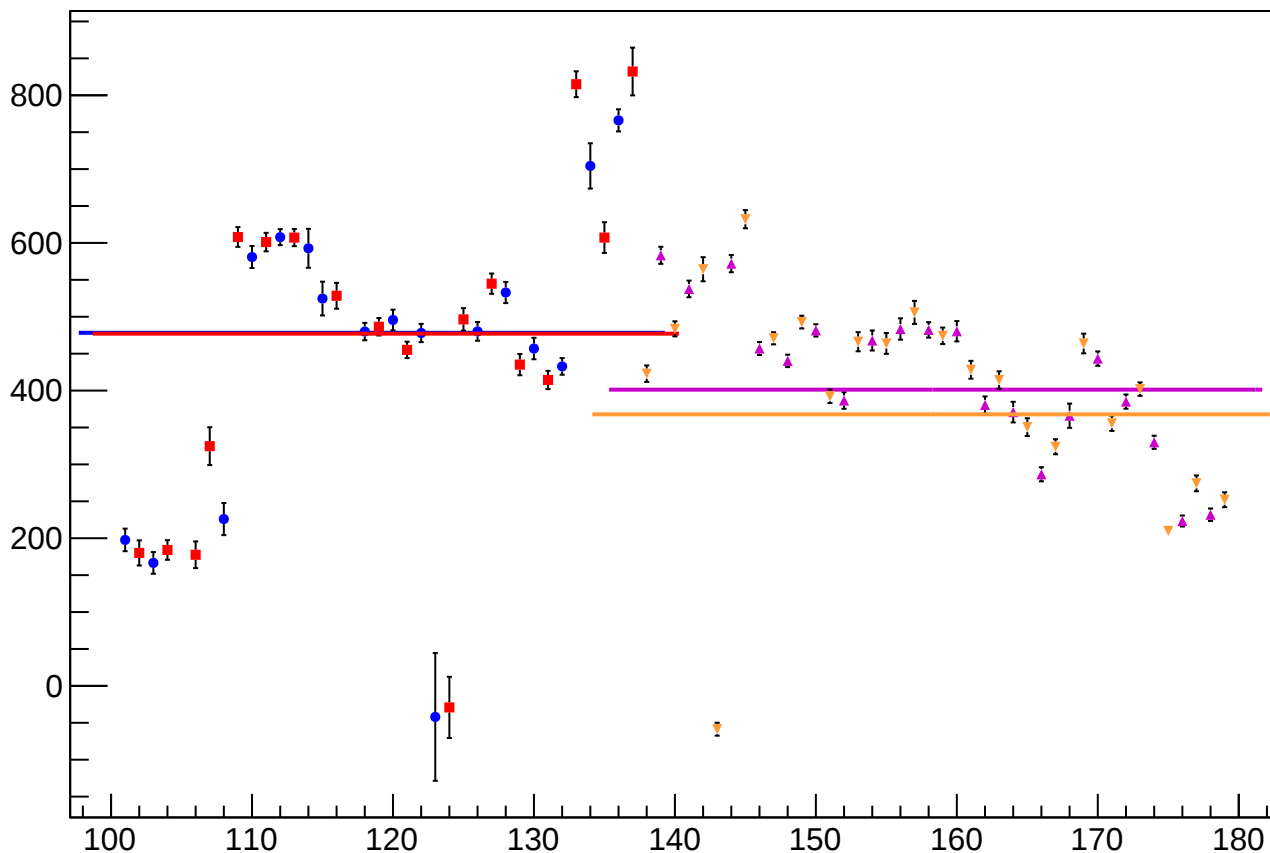
Right:  $-1.430 \pm 1.347$   $\chi^2/\text{NDF}$ : 610.8/34

In:  $1.348 \pm 1.268$   $\chi^2/\text{NDF}$ : 512.3/36

Out:  $3.036 \pm 1.233$   $\chi^2/\text{NDF}$ : 550.6/39

All:  $2.215 \pm 0.884$   $\chi^2/\text{NDF}$ : 1063.8/76

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 367.793 $\pm$ 2.222  $\chi^2$ /NDF: 4670.0/21

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

Left In: 401.237 $\pm$ 2.294  $\chi^2$ /NDF: 2129.2/19

Left: 383.976 $\pm$ 1.596  $\chi^2$ /NDF: 6909.0/41

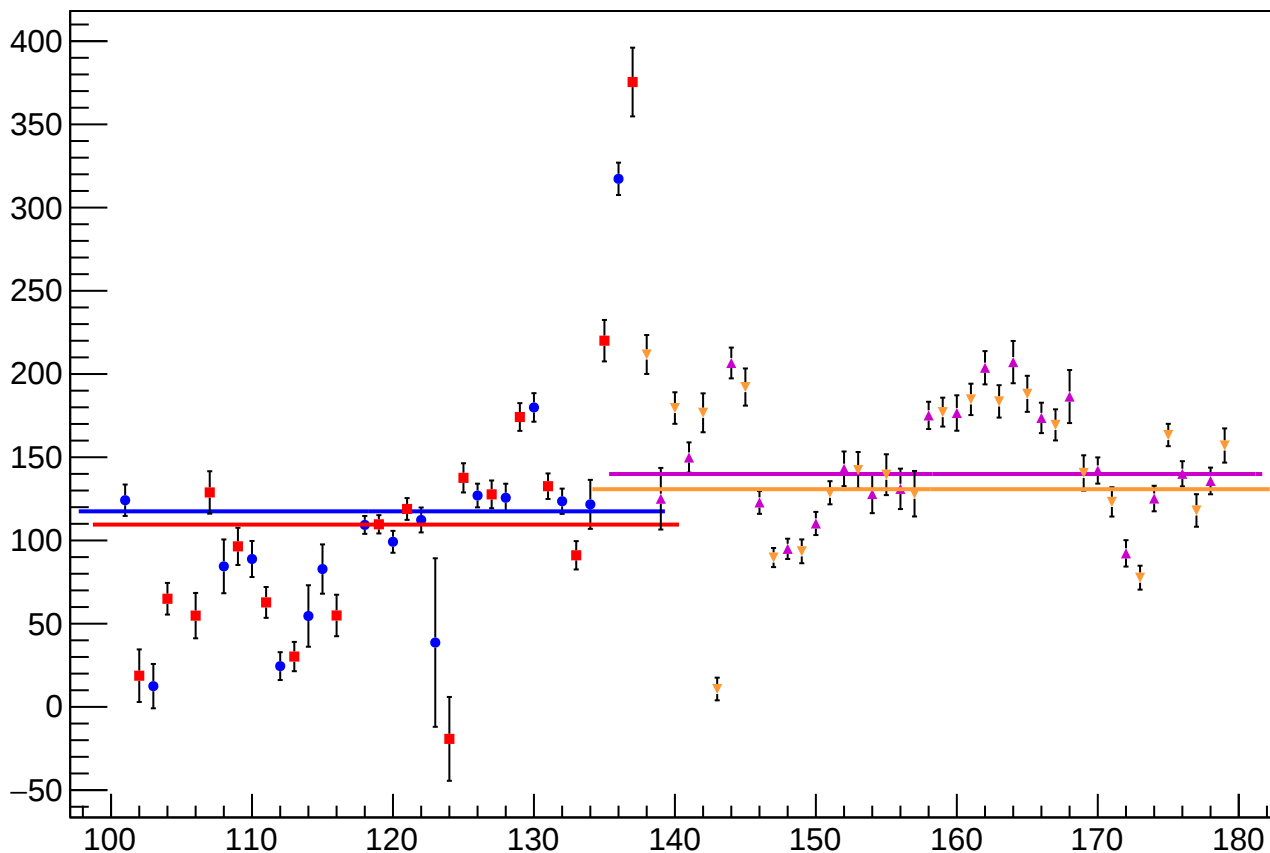
Right: 477.667 $\pm$ 2.538  $\chi^2$ /NDF: 3803.8/34

In: 423.156 $\pm$ 1.941  $\chi^2$ /NDF: 4077.9/36

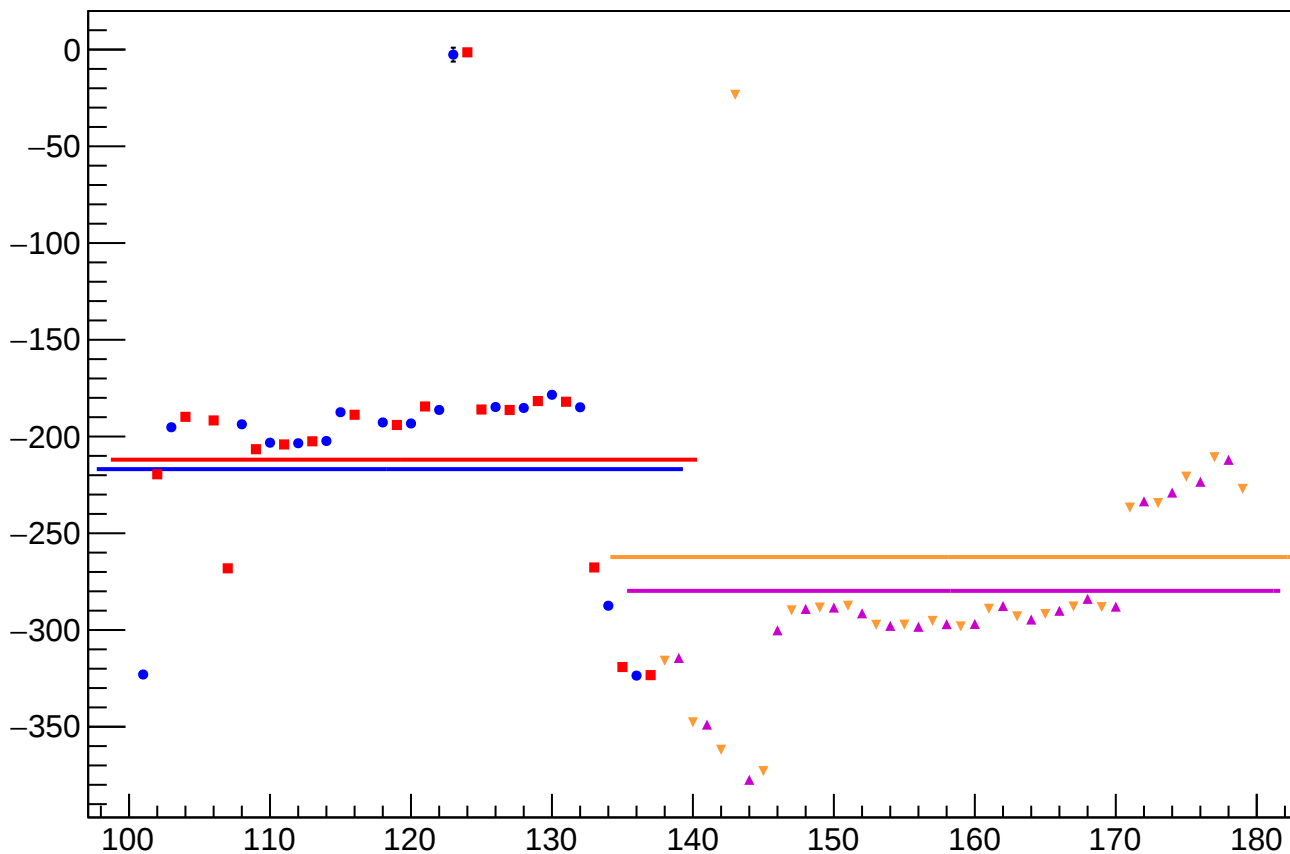
Out: 398.661 $\pm$ 1.882  $\chi^2$ /NDF: 7529.5/39

All: 410.532 $\pm$ 1.351  $\chi^2$ /NDF: 11689.5/76

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -216.855+/-0.136  $\chi^2$ /NDF: 146927.1/16

Left Out: -262.289+/-0.090  $\chi^2$ /NDF: 689773.2/21

Right Out: -211.961+/-0.131  $\chi^2$ /NDF: 112091.8/17

Left In: -279.766+/-0.092  $\chi^2$ /NDF: 178873.3/19

Left: -270.835+/-0.064  $\chi^2$ /NDF: 887036.2/41

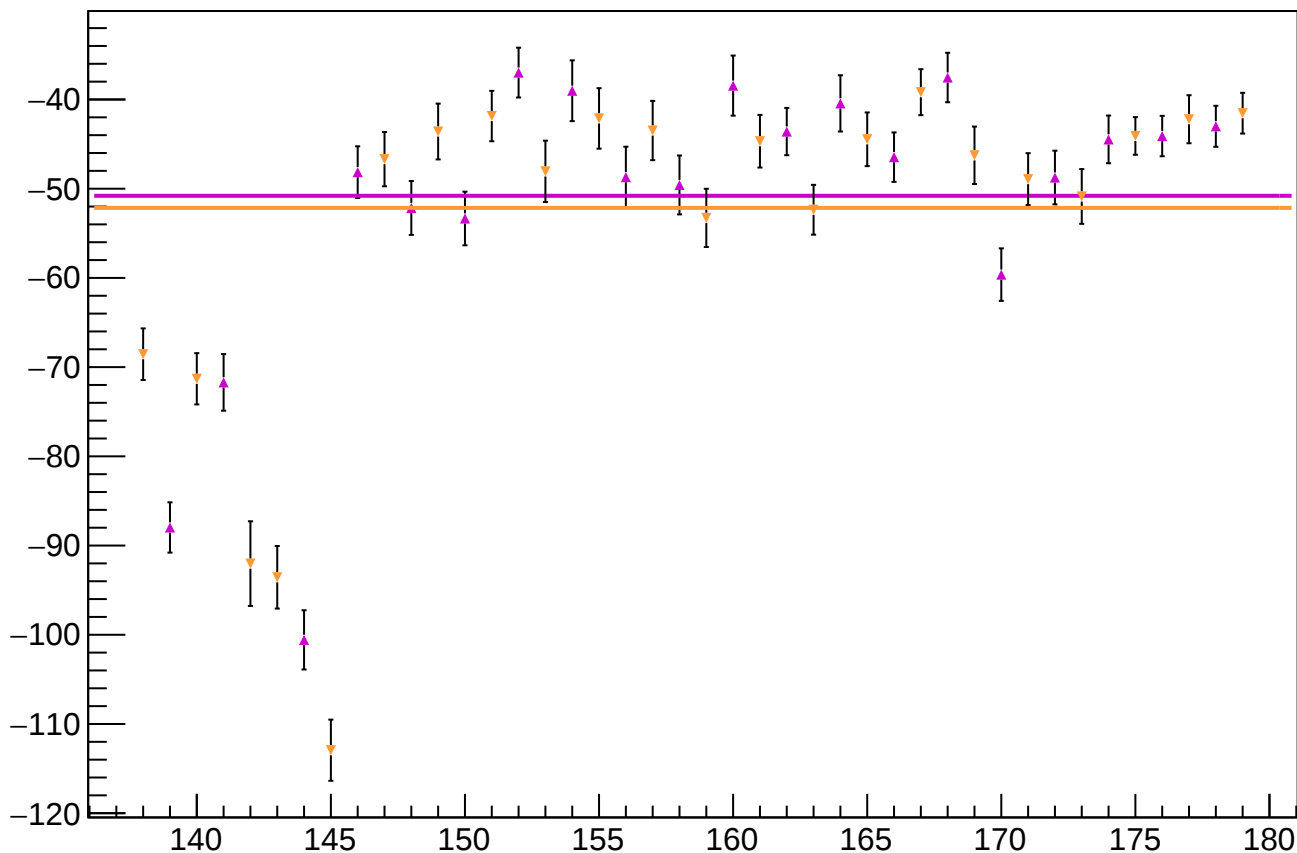
Right: -214.313+/-0.094  $\chi^2$ /NDF: 259693.1/34

In: -259.949+/-0.076  $\chi^2$ /NDF: 472683.3/36

Out: -246.064+/-0.074  $\chi^2$ /NDF: 902406.3/39

All: -252.816+/-0.053  $\chi^2$ /NDF: 1392122.9/76

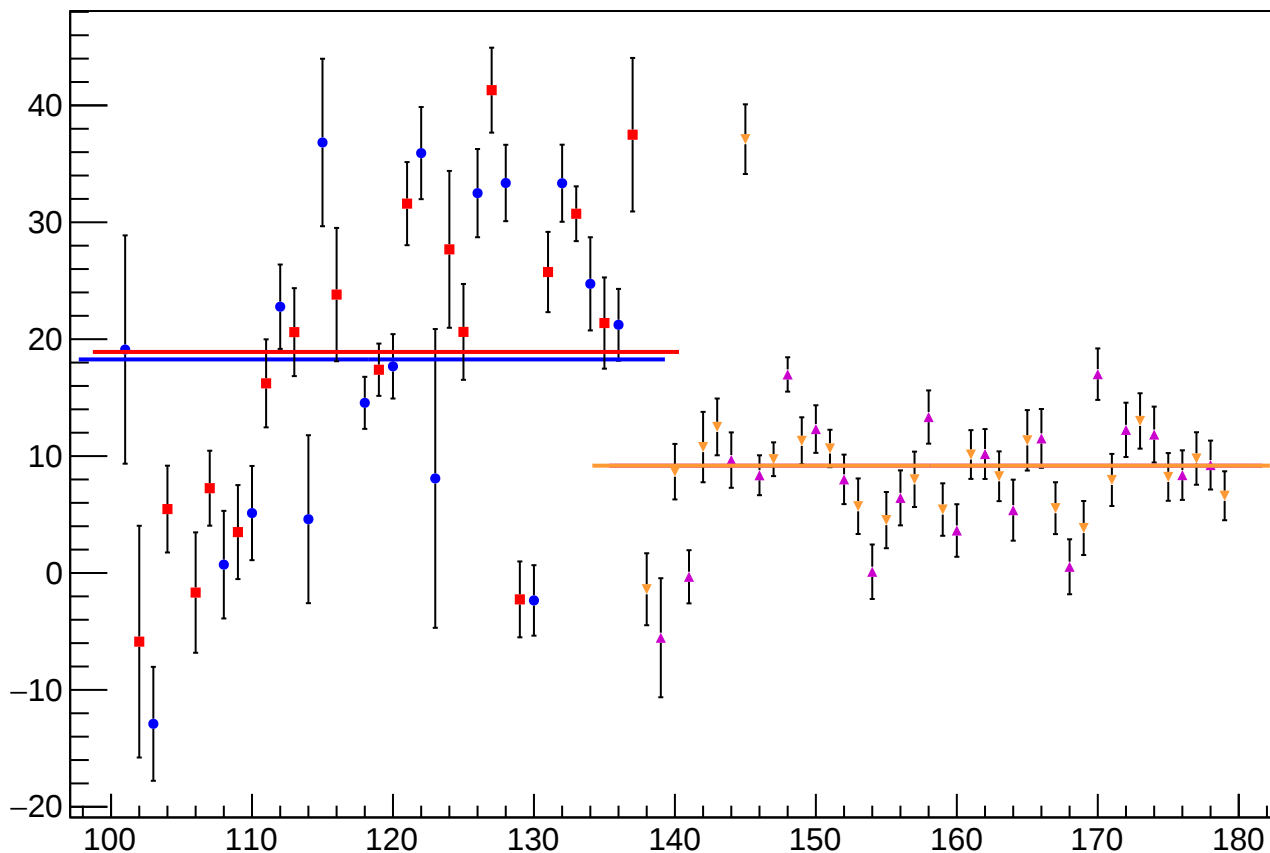
# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -52.148+/-0.630  $\chi^2/\text{NDF}$ : 735.1/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -50.795+/-0.647  $\chi^2/\text{NDF}$ : 573.3/19

Left: -51.490+/-0.451  $\chi^2/\text{NDF}$ : 1310.6/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -50.795+/-0.647  $\chi^2/\text{NDF}$ : 573.3/19  
 Out: -52.148+/-0.630  $\chi^2/\text{NDF}$ : 735.1/21  
 All: -51.490+/-0.451  $\chi^2/\text{NDF}$ : 1310.6/41

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.269 \pm 0.907$   $\chi^2/\text{NDF}$ : 208.3/16

Left Out:  $9.183 \pm 0.469$   $\chi^2/\text{NDF}$ : 126.6/21

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

Left In:  $9.178 \pm 0.490$   $\chi^2/\text{NDF}$ : 115.4/19

Left:  $9.181 \pm 0.339$   $\chi^2/\text{NDF}$ : 242.0/41

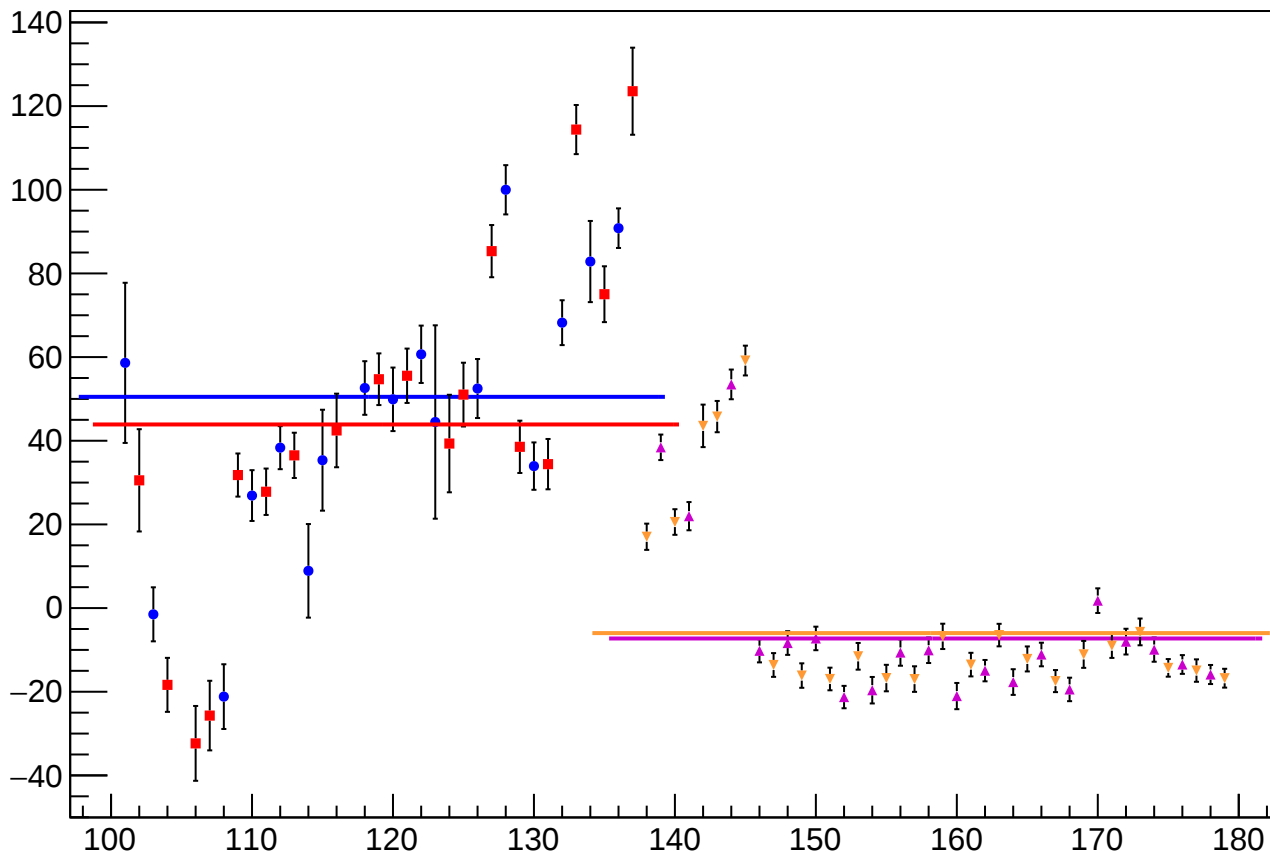
Right:  $18.605 \pm 0.626$   $\chi^2/\text{NDF}$ : 406.7/34

In:  $11.235 \pm 0.431$   $\chi^2/\text{NDF}$ : 401.5/36

Out:  $11.392 \pm 0.412$   $\chi^2/\text{NDF}$ : 422.6/39

All:  $11.317 \pm 0.298$   $\chi^2/\text{NDF}$ : 824.1/76

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $50.497 \pm 1.671$   $\chi^2/\text{NDF}$ : 363.2/16

Left Out:  $-5.980 \pm 0.622$   $\chi^2/\text{NDF}$ : 897.6/21

Right Out:  $43.895 \pm 1.604$   $\chi^2/\text{NDF}$ : 531.7/17

Left In:  $-7.271 \pm 0.639$   $\chi^2/\text{NDF}$ : 731.0/19

Left:  $-6.608 \pm 0.446$   $\chi^2/\text{NDF}$ : 1630.7/41

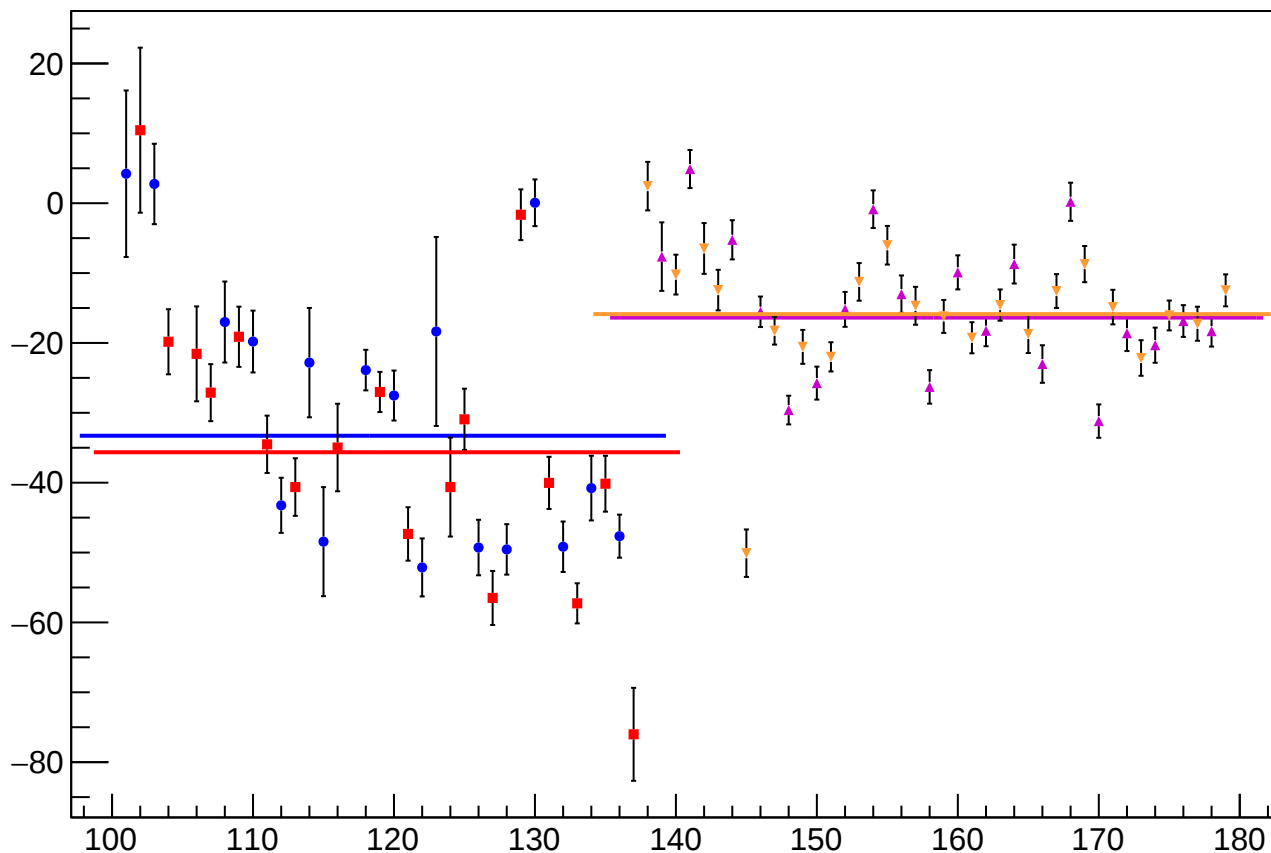
Right:  $47.060 \pm 1.157$   $\chi^2/\text{NDF}$ : 903.0/34

In:  $0.102 \pm 0.597$   $\chi^2/\text{NDF}$ : 2137.0/36

Out:  $0.548 \pm 0.580$   $\chi^2/\text{NDF}$ : 2270.0/39

All:  $0.331 \pm 0.416$   $\chi^2/\text{NDF}$ : 4407.3/76

reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-15.876 \pm 0.536$   $\chi^2/\text{NDF}$ : 192.9/21

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

Left In:  $-16.371 \pm 0.559$   $\chi^2/\text{NDF}$ : 290.1/19

Left:  $-16.114 \pm 0.387$   $\chi^2/\text{NDF}$ : 483.4/41

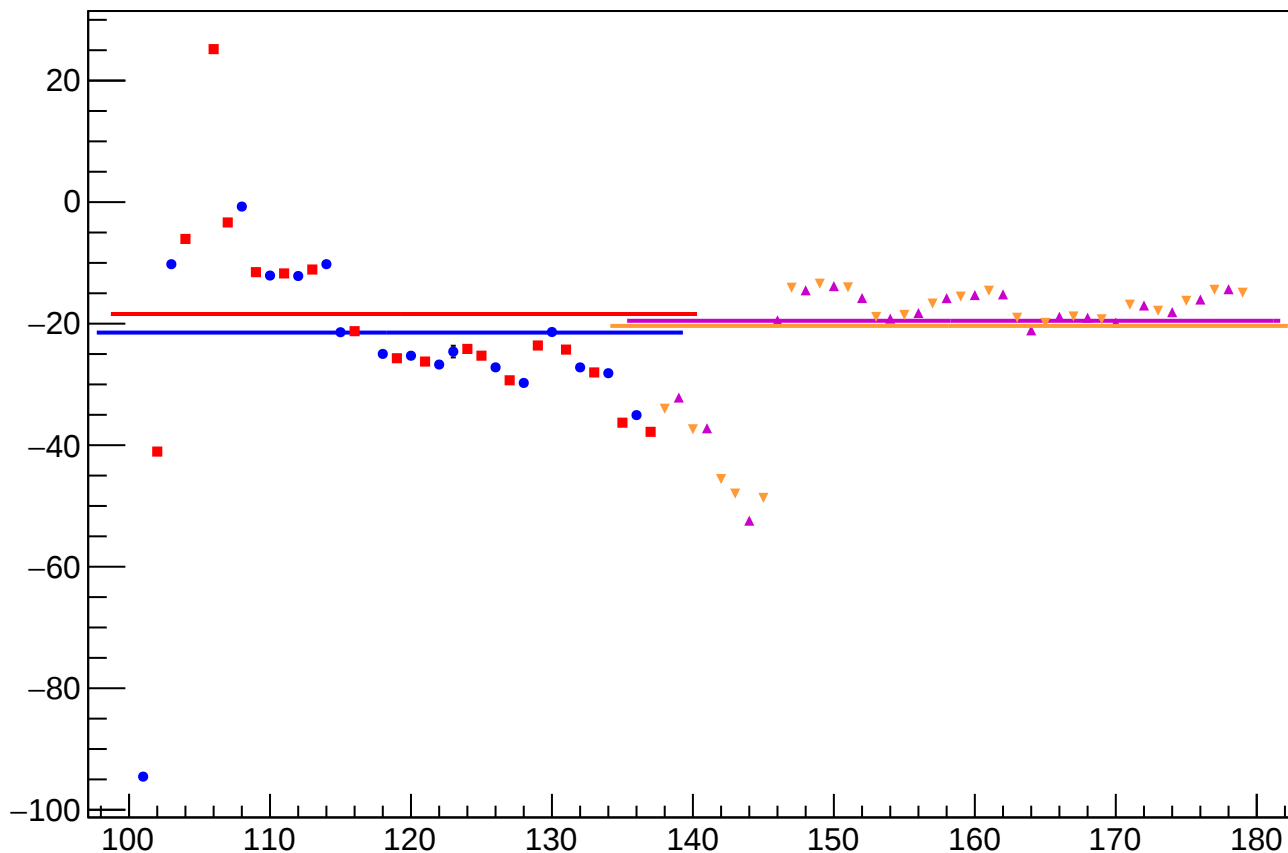
Right:  $-34.511 \pm 0.716$   $\chi^2/\text{NDF}$ : 580.2/34

In:  $-20.190 \pm 0.492$   $\chi^2/\text{NDF}$ : 789.7/36

Out:  $-20.343 \pm 0.472$   $\chi^2/\text{NDF}$ : 784.4/39

All:  $-20.270 \pm 0.340$   $\chi^2/\text{NDF}$ : 1574.2/76

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}: 48979.5/16$

Left Out:  $-20.370 \pm 0.025$   $\chi^2/\text{NDF}: 143054.2/21$

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}: 77587.3/17$

Left In:  $-19.526 \pm 0.025$   $\chi^2/\text{NDF}: 89942.5/19$

Left:  $-19.956 \pm 0.018$   $\chi^2/\text{NDF}: 233564.4/41$

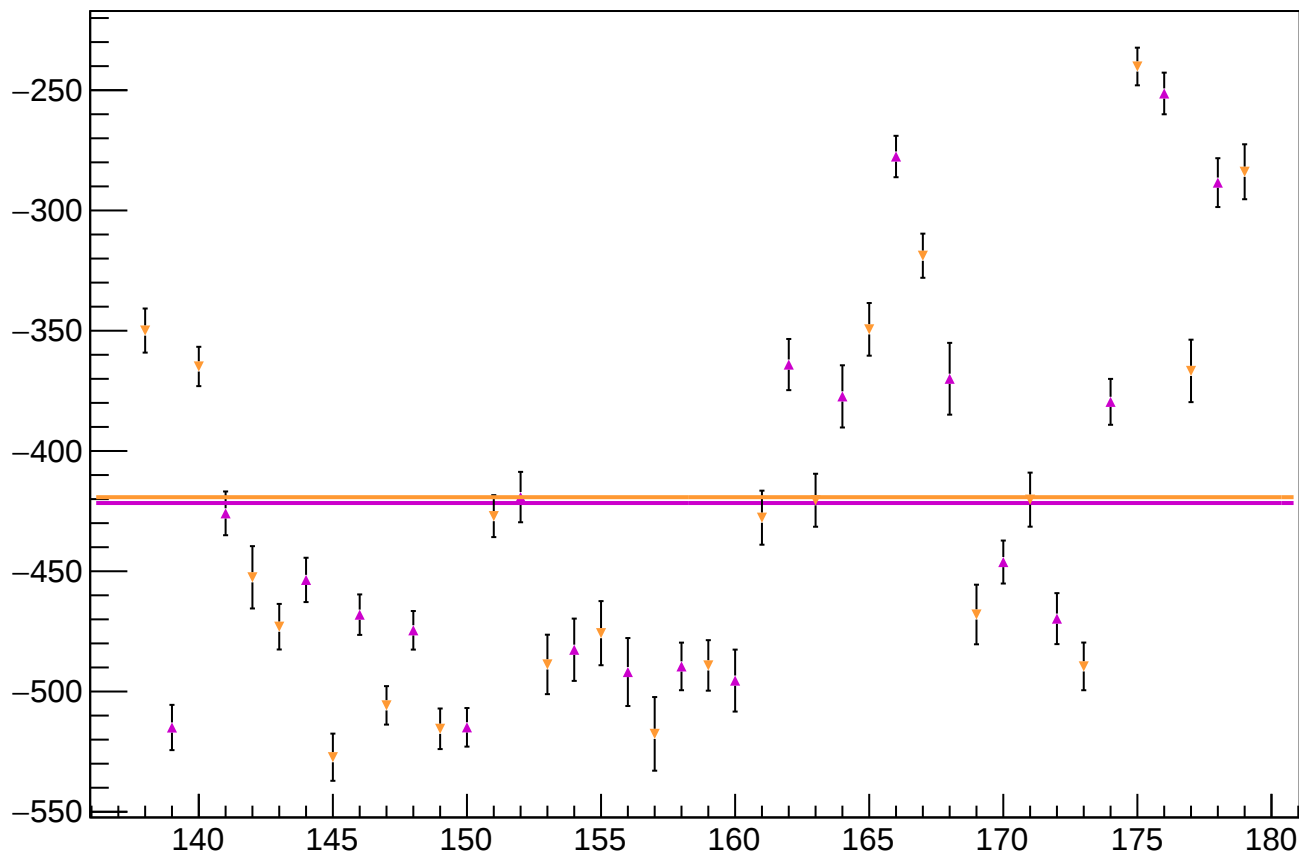
Right:  $-19.904 \pm 0.041$   $\chi^2/\text{NDF}: 127953.4/34$

In:  $-19.830 \pm 0.023$   $\chi^2/\text{NDF}: 139844.7/36$

Out:  $-20.062 \pm 0.023$   $\chi^2/\text{NDF}: 221623.5/39$

All:  $-19.948 \pm 0.016$   $\chi^2/\text{NDF}: 361519.1/76$

reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -419.203+/-2.163  $\chi^2/\text{NDF}$ :1551.9/21

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

Left In: -421.635+/-2.209  $\chi^2/\text{NDF}$ :1386.7/19

Left: -420.394+/-1.546  $\chi^2/\text{NDF}$ : 2939.3/41

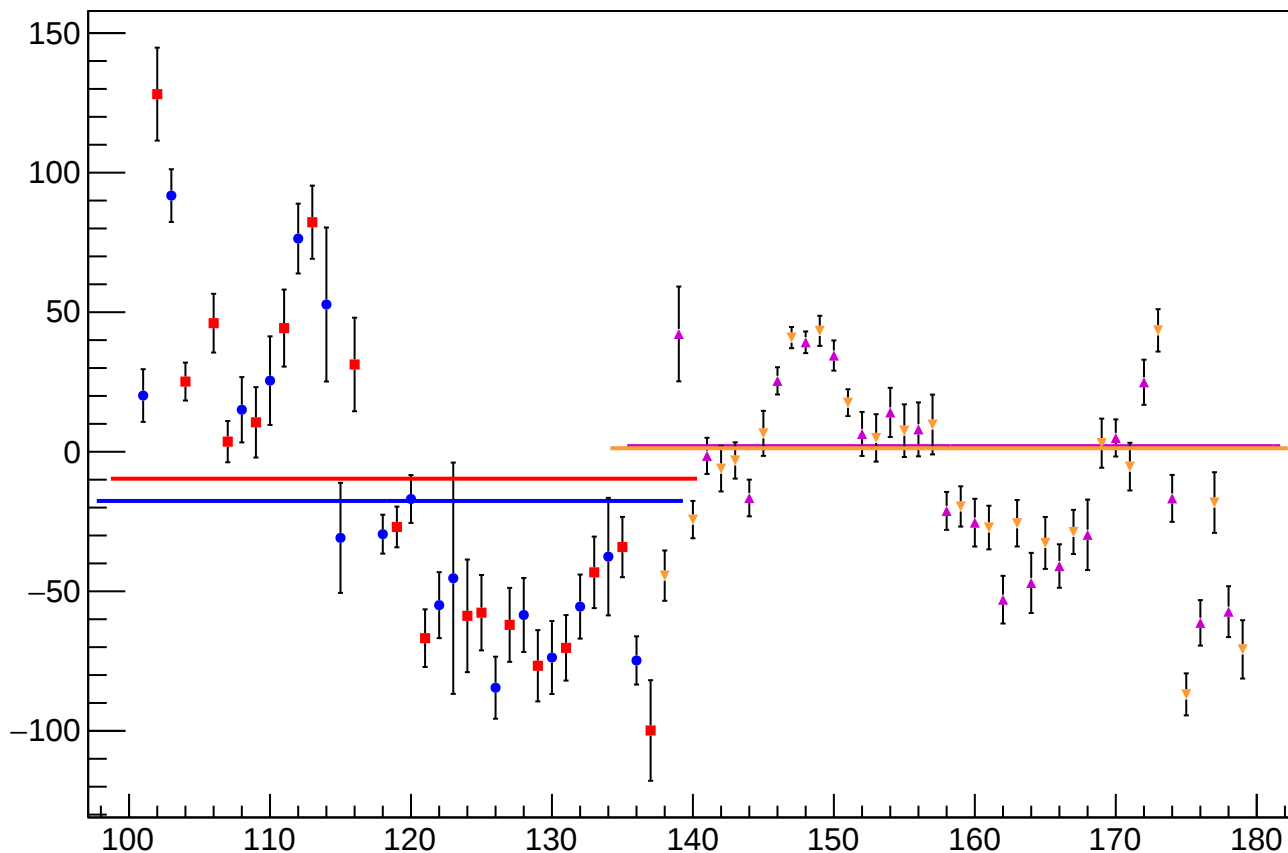
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -421.635+/-2.209  $\chi^2/\text{NDF}$ :1386.7/19

Out: -419.203+/-2.163  $\chi^2/\text{NDF}$ :1551.9/21

All: -420.394+/-1.546  $\chi^2/\text{NDF}$ : 2939.3/41

reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-17.619 \pm 2.786$   $\chi^2/\text{NDF}$ : 362.0/16

Left Out:  $1.262 \pm 1.531$   $\chi^2/\text{NDF}$ : 504.3/21

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

Left In:  $2.011 \pm 1.597$   $\chi^2/\text{NDF}$ : 404.0/19

Left:  $1.621 \pm 1.105$   $\chi^2/\text{NDF}$ : 908.4/41

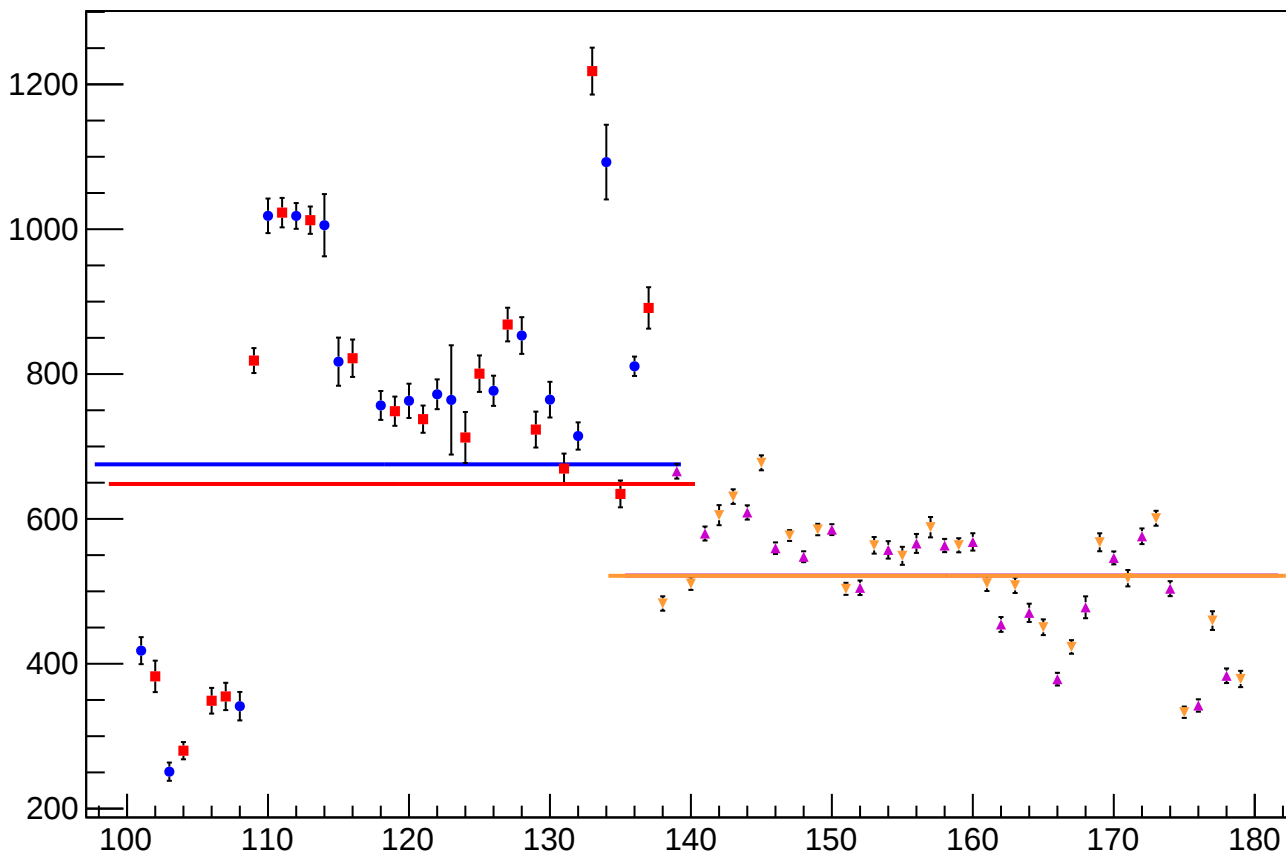
Right:  $-13.374 \pm 1.906$   $\chi^2/\text{NDF}$ : 727.1/34

In:  $-2.842 \pm 1.385$   $\chi^2/\text{NDF}$ : 803.4/36

Out:  $-1.525 \pm 1.321$   $\chi^2/\text{NDF}$ : 877.9/39

All:  $-2.153 \pm 0.956$   $\chi^2/\text{NDF}$ : 1681.8/76

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $675.339 \pm 5.046$   $\chi^2/\text{NDF}$ : 2582.7/16

Left Out:  $521.451 \pm 2.146$   $\chi^2/\text{NDF}$ : 1575.2/21

Right Out:  $648.229 \pm 4.775$   $\chi^2/\text{NDF}$ : 3059.0/17

Left In:  $521.794 \pm 2.181$   $\chi^2/\text{NDF}$ : 1476.0/19

Left:  $521.620 \pm 1.529$   $\chi^2/\text{NDF}$ : 3051.1/41

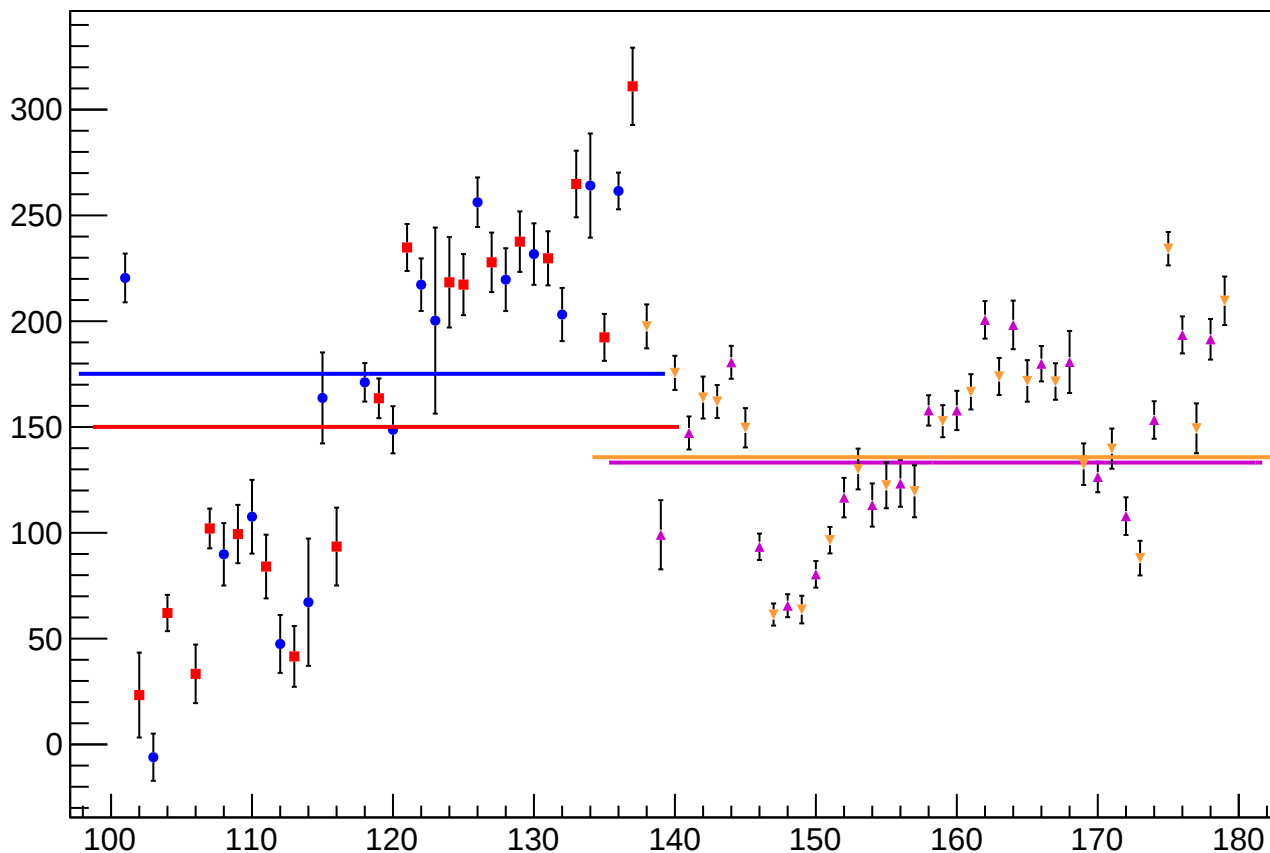
Right:  $661.037 \pm 3.468$   $\chi^2/\text{NDF}$ : 5656.9/34

In:  $545.959 \pm 2.002$   $\chi^2/\text{NDF}$ : 4838.9/36

Out:  $542.749 \pm 1.957$   $\chi^2/\text{NDF}$ : 5220.7/39

All:  $544.318 \pm 1.399$   $\chi^2/\text{NDF}$ : 10060.9/76

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $175.142 \pm 3.209$   $\chi^2/\text{NDF}$ : 635.6/16

Left Out:  $135.754 \pm 1.795$   $\chi^2/\text{NDF}$ : 749.8/21

Right Out:  $150.054 \pm 3.045$   $\chi^2/\text{NDF}$ : 686.2/17

Left In:  $133.202 \pm 1.858$   $\chi^2/\text{NDF}$ : 567.9/19

Left:  $134.522 \pm 1.291$   $\chi^2/\text{NDF}$ : 1318.8/41

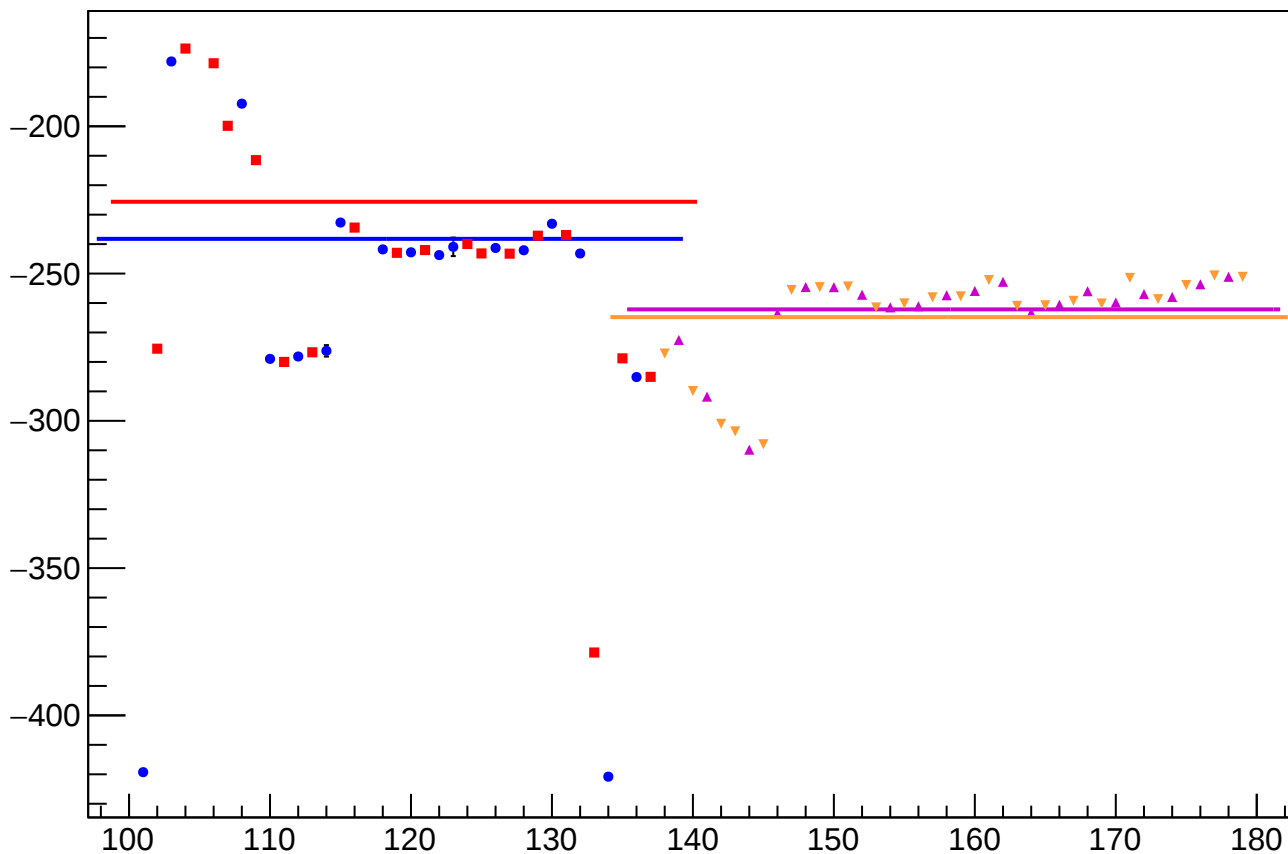
Right:  $161.941 \pm 2.209$   $\chi^2/\text{NDF}$ : 1354.0/34

In:  $143.730 \pm 1.608$   $\chi^2/\text{NDF}$ : 1331.5/36

Out:  $139.442 \pm 1.547$   $\chi^2/\text{NDF}$ : 1452.4/39

All:  $141.503 \pm 1.115$   $\chi^2/\text{NDF}$ : 2787.6/76

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -238.217+/-0.160  $\chi^2/\text{NDF}$ : 167098.2/16

Left Out: -264.796+/-0.087  $\chi^2/\text{NDF}$ : 38119.5/21

Right Out: -225.623+/-0.152  $\chi^2/\text{NDF}$ : 95450.2/17

Left In: -262.163+/-0.087  $\chi^2/\text{NDF}$ : 22531.3/19

Left: -263.488+/-0.062  $\chi^2/\text{NDF}$ : 61108.6/41

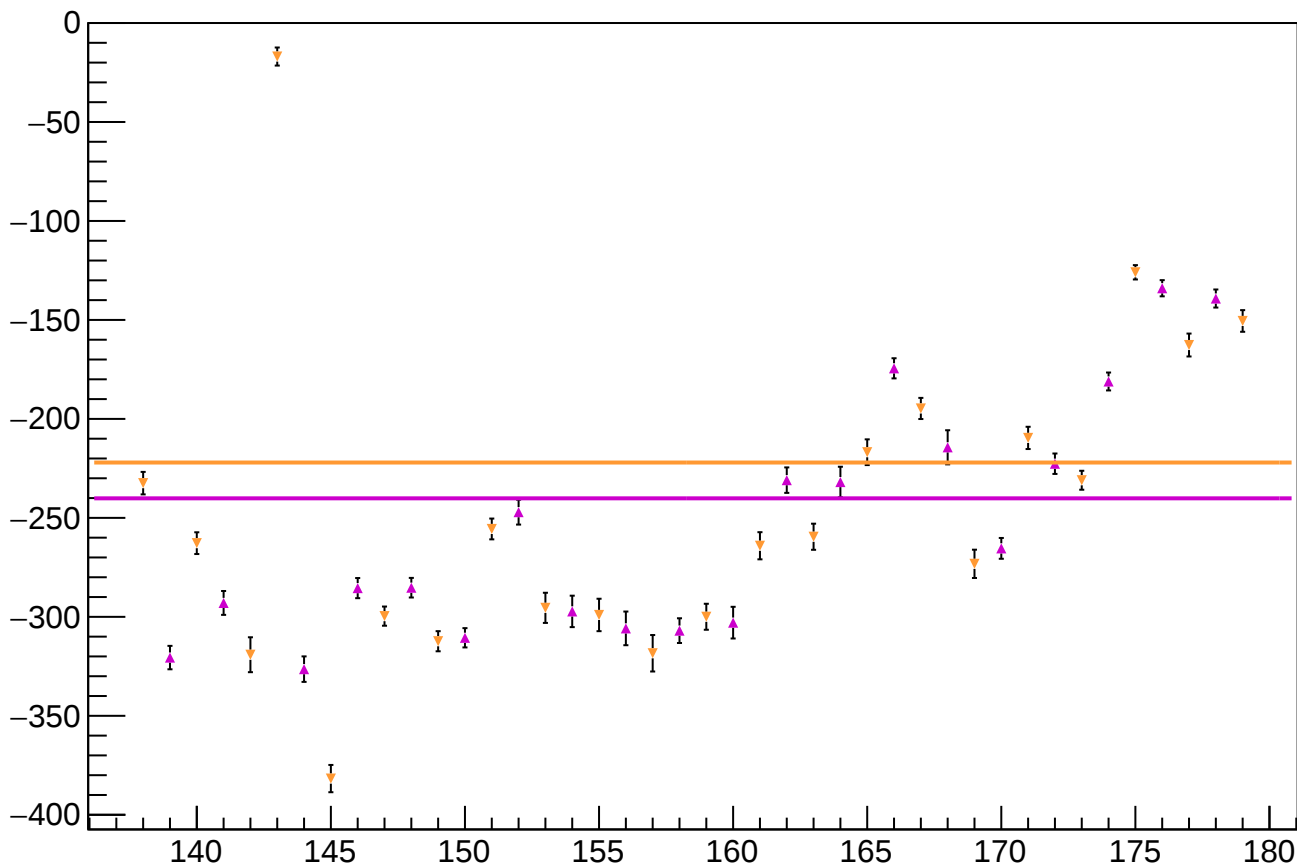
Right: -231.577+/-0.110  $\chi^2/\text{NDF}$ : 265811.9/34

In: -256.676+/-0.077  $\chi^2/\text{NDF}$ : 206883.6/36

Out: -255.138+/-0.075  $\chi^2/\text{NDF}$ : 183894.7/39

All: -255.893+/-0.054  $\chi^2/\text{NDF}$ : 390983.5/76

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: -222.039+/-1.223  $\chi^2/\text{NDF}$ :4918.2/21

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

Left In: -240.131+/-1.269  $\chi^2/\text{NDF}$ :2649.2/19

Left: -230.757+/-0.881  $\chi^2/\text{NDF}$ : 7672.7/41

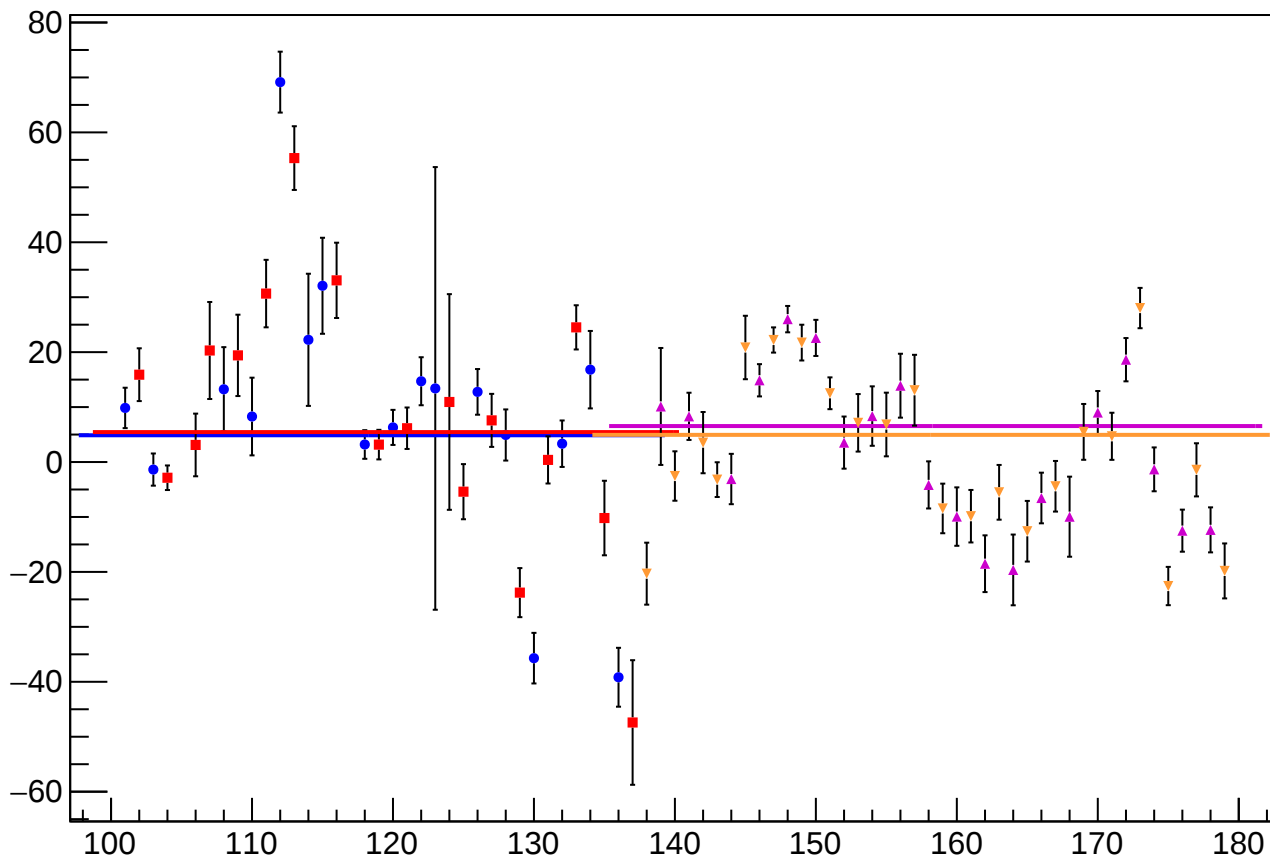
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -240.131+/-1.269  $\chi^2/\text{NDF}$ :2649.2/19

Out: -222.039+/-1.223  $\chi^2/\text{NDF}$ :4918.2/21

All: -230.757+/-0.881  $\chi^2/\text{NDF}$ : 7672.7/41

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.870 \pm 1.091$   $\chi^2/\text{NDF}$ : 311.5/16

Left Out:  $4.945 \pm 0.883$   $\chi^2/\text{NDF}$ : 294.2/21

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}$ : 231.5/17

Left In:  $6.548 \pm 0.937$   $\chi^2/\text{NDF}$ : 233.3/19

Left:  $5.699 \pm 0.643$   $\chi^2/\text{NDF}$ : 529.0/41

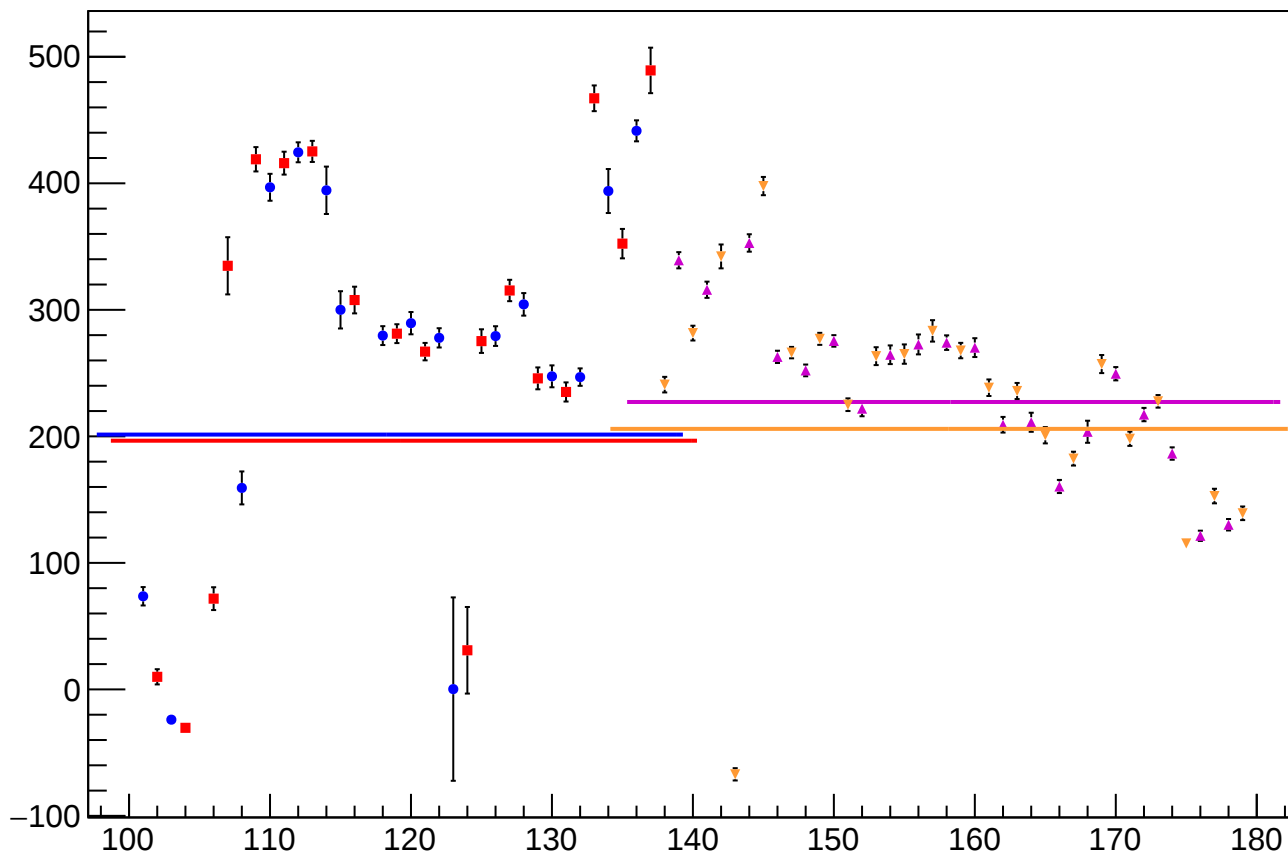
Right:  $5.165 \pm 0.764$   $\chi^2/\text{NDF}$ : 543.2/34

In:  $5.835 \pm 0.711$   $\chi^2/\text{NDF}$ : 546.2/36

Out:  $5.149 \pm 0.681$   $\chi^2/\text{NDF}$ : 525.9/39

All:  $5.478 \pm 0.492$   $\chi^2/\text{NDF}$ : 1072.5/76

reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 201.407 $\pm$ 1.974  $\chi^2$ /NDF: 6740.4/16

Left Out: 205.919 $\pm$ 1.215  $\chi^2$ /NDF:5994.3/21

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

Left In: 227.166 $\pm$ 1.256  $\chi^2$ /NDF:2604.1/19

Left: 216.197 $\pm$ 0.873  $\chi^2$ /NDF: 8746.2/41

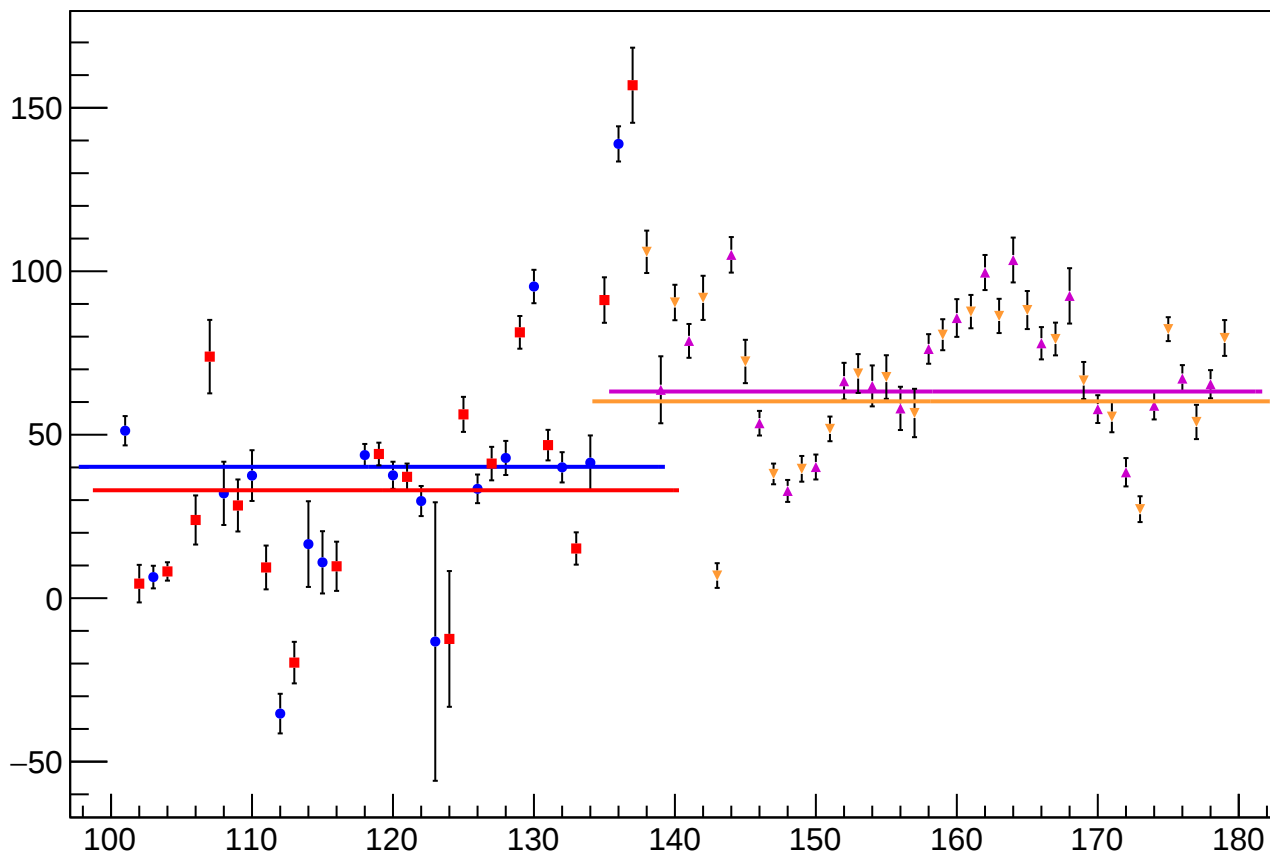
Right: 198.933 $\pm$ 1.380  $\chi^2$ /NDF: 14921.6/34

In: 219.745 $\pm$ 1.059  $\chi^2$ /NDF:9465.7/36

Out: 203.265 $\pm$ 1.029  $\chi^2$ /NDF:14189.2/39

All: 211.263 $\pm$ 0.738  $\chi^2$ /NDF: 23779.5/76

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 40.183+/-1.270  $\chi^2/\text{NDF}$ : 734.0/16

Left Out: 60.210+/-1.027  $\chi^2/\text{NDF}$ : 622.5/21

Right Out: 33.009+/-1.253  $\chi^2/\text{NDF}$ : 547.2/17

Left In: 63.216+/-1.081  $\chi^2/\text{NDF}$ : 355.4/19

Left: 61.636+/-0.744  $\chi^2/\text{NDF}$ : 982.0/41

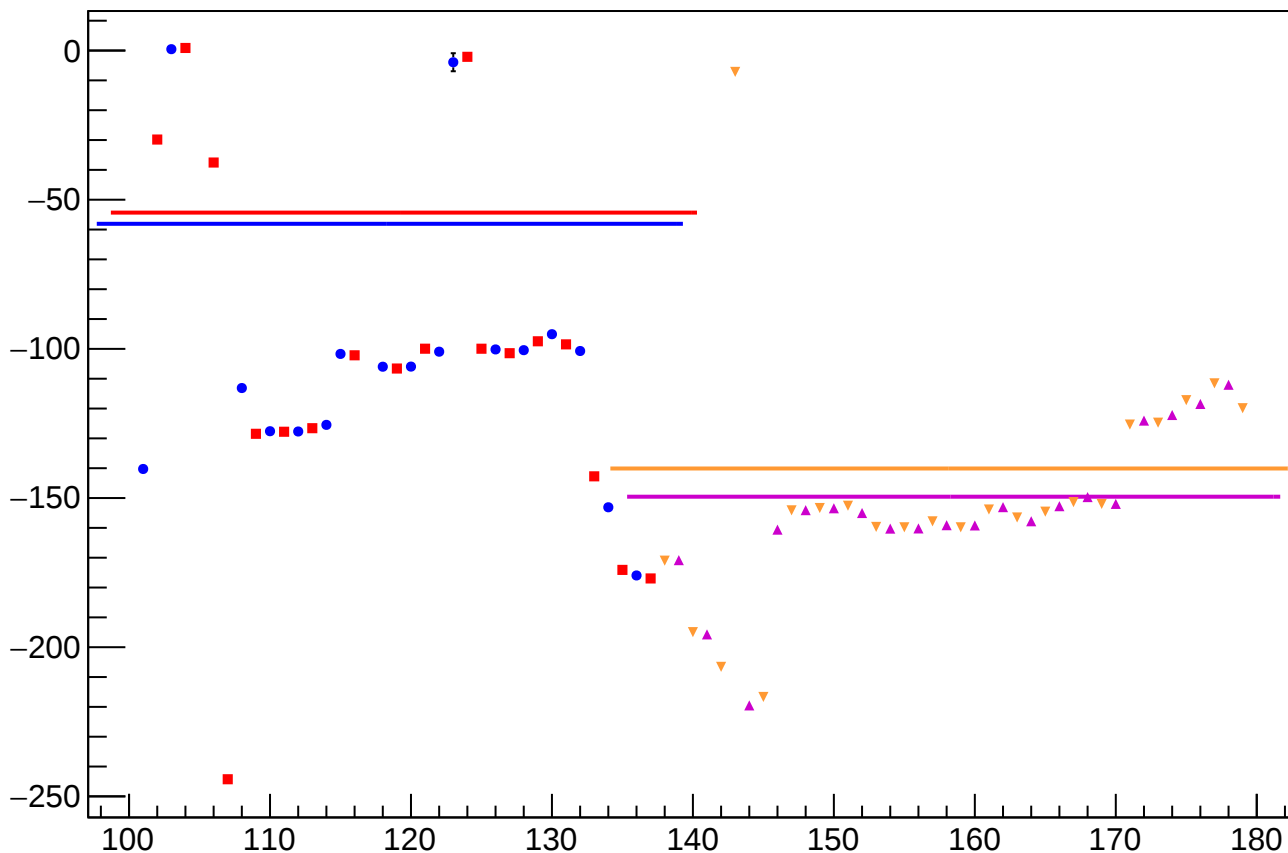
Right: 36.547+/-0.892  $\chi^2/\text{NDF}$ : 1297.4/34

In: 53.543+/-0.823  $\chi^2/\text{NDF}$ : 1280.2/36

Out: 49.282+/-0.794  $\chi^2/\text{NDF}$ : 1451.7/39

All: 51.336+/-0.571  $\chi^2/\text{NDF}$ : 2745.9/76

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-58.077 \pm 0.062$   $\chi^2/\text{NDF}: 1104437.7/16$

Left Out:  $-140.096 \pm 0.049$   $\chi^2/\text{NDF}: 730399.0/21$

Right Out:  $-54.323 \pm 0.060$   $\chi^2/\text{NDF}: 991053.6/17$

Left In:  $-149.551 \pm 0.050$   $\chi^2/\text{NDF}: 207788.5/19$

Left:  $-144.717 \pm 0.035$   $\chi^2/\text{NDF}: 956182.4/41$

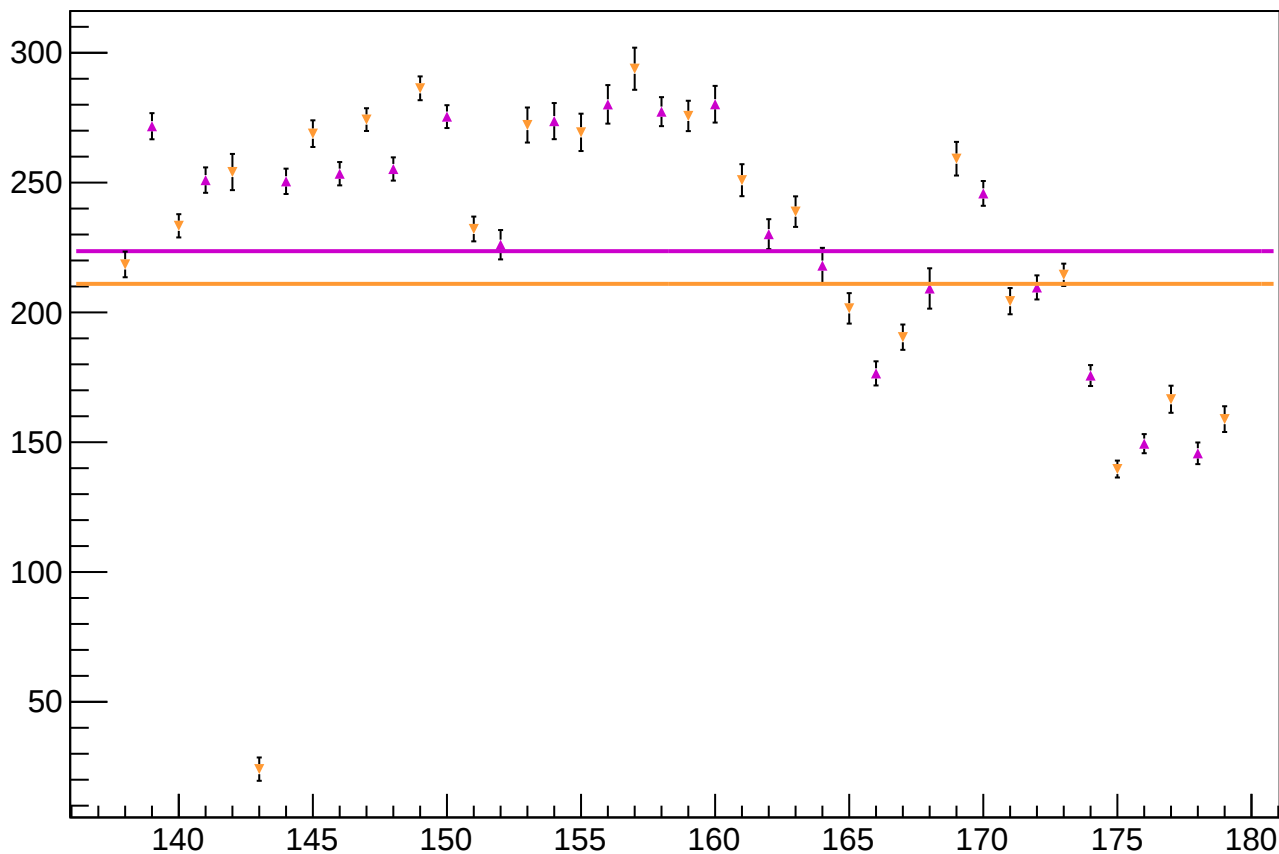
Right:  $-56.164 \pm 0.043$   $\chi^2/\text{NDF}: 2097382.5/34$

In:  $-112.889 \pm 0.039$   $\chi^2/\text{NDF}: 2632677.4/36$

Out:  $-105.848 \pm 0.038$   $\chi^2/\text{NDF}: 2931321.3/39$

All:  $-109.294 \pm 0.027$   $\chi^2/\text{NDF}: 5580632.1/76$

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: 210.998+/-1.089  $\chi^2/\text{NDF}$ :3601.8/21

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

Left In: 223.590+/-1.123  $\chi^2/\text{NDF}$ :1686.0/19

Left: 217.103+/-0.782  $\chi^2/\text{NDF}$ : 5352.6/41

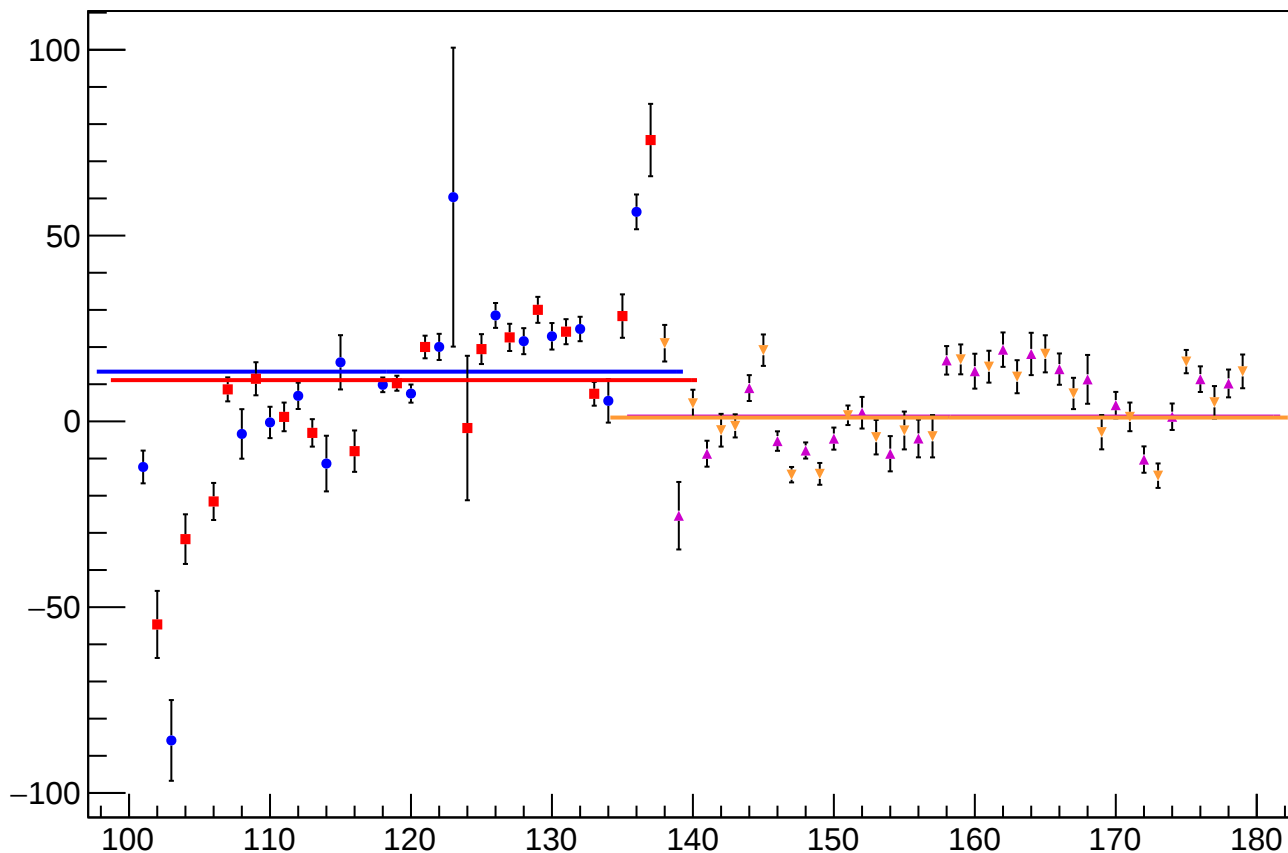
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 223.590+/-1.123  $\chi^2/\text{NDF}$ :1686.0/19

Out: 210.998+/-1.089  $\chi^2/\text{NDF}$ :3601.8/21

All: 217.103+/-0.782  $\chi^2/\text{NDF}$ : 5352.6/41

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $13.385 \pm 0.921$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $1.031 \pm 0.789$   $\chi^2/\text{NDF}$ : 221.6/21

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

Left In:  $1.295 \pm 0.831$   $\chi^2/\text{NDF}$ : 138.8/19

Left:  $1.156 \pm 0.572$   $\chi^2/\text{NDF}$ : 360.4/41

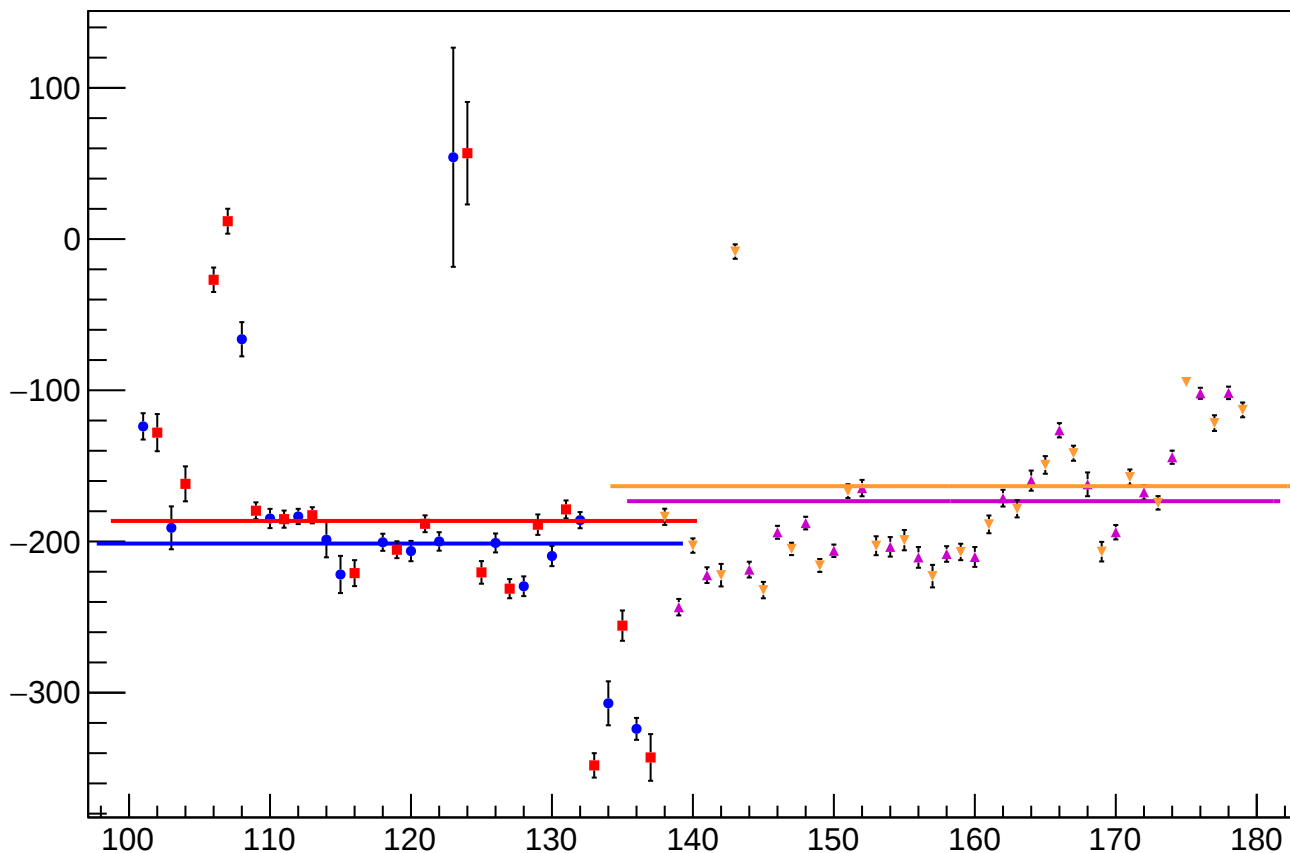
Right:  $12.236 \pm 0.649$   $\chi^2/\text{NDF}$ : 589.4/34

In:  $6.718 \pm 0.617$   $\chi^2/\text{NDF}$ : 527.9/36

Out:  $5.322 \pm 0.598$   $\chi^2/\text{NDF}$ : 583.2/39

All:  $5.998 \pm 0.429$   $\chi^2/\text{NDF}$ : 1113.8/76

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -201.367+/-1.784  $\chi^2/\text{NDF}$ : 625.0/16

Left Out: -163.433+/-1.083  $\chi^2/\text{NDF}$ : 2524.2/21

Right Out: -186.409+/-1.703  $\chi^2/\text{NDF}$ : 1699.5/17

Left In: -173.343+/-1.113  $\chi^2/\text{NDF}$ : 1409.3/19

Left: -168.253+/-0.776  $\chi^2/\text{NDF}$ : 3974.2/41

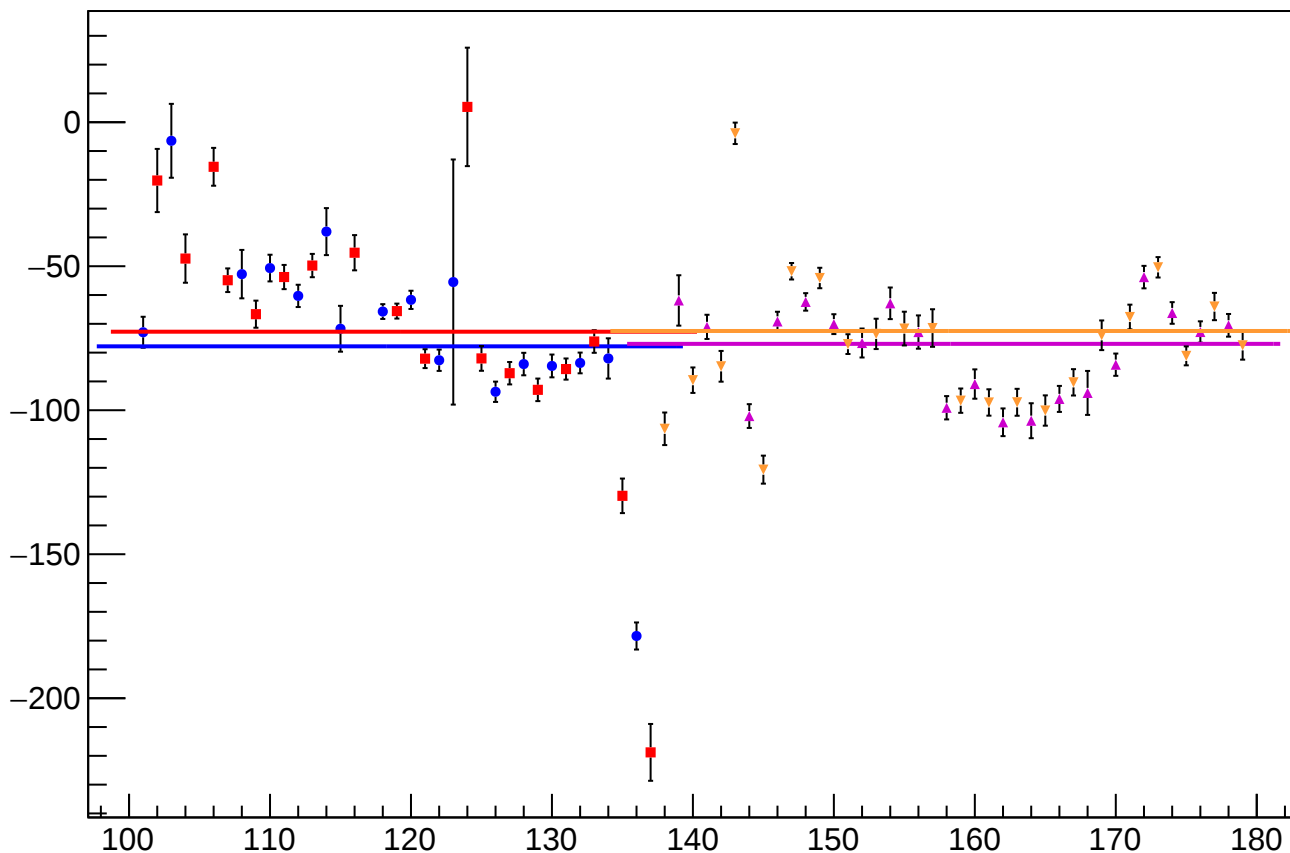
Right: -193.544+/-1.232  $\chi^2/\text{NDF}$ : 2361.2/34

In: -181.200+/-0.944  $\chi^2/\text{NDF}$ : 2211.9/36

Out: -170.050+/-0.914  $\chi^2/\text{NDF}$ : 4353.2/39

All: -175.443+/-0.657  $\chi^2/\text{NDF}$ : 6637.1/76

reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.818 \pm 1.068$   $\chi^2/\text{NDF}$ : 656.4/16

Left Out:  $-72.486 \pm 0.917$   $\chi^2/\text{NDF}$ : 760.4/21

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

Left In:  $-76.957 \pm 0.958$   $\chi^2/\text{NDF}$ : 243.9/19

Left:  $-74.623 \pm 0.662$   $\chi^2/\text{NDF}$ : 1015.7/41

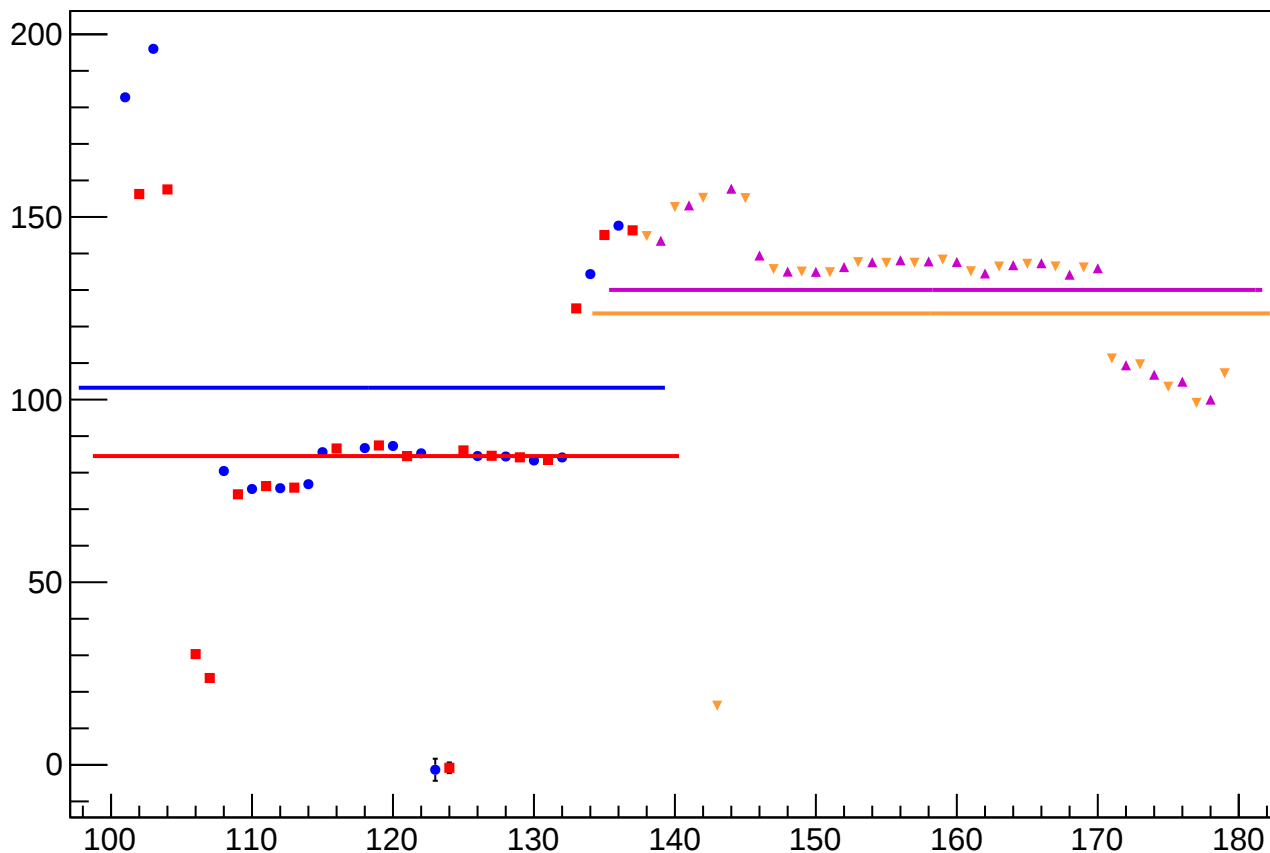
Right:  $-75.241 \pm 0.750$   $\chi^2/\text{NDF}$ : 1266.8/34

In:  $-77.341 \pm 0.713$   $\chi^2/\text{NDF}$ : 900.6/36

Out:  $-72.593 \pm 0.692$   $\chi^2/\text{NDF}$ : 1359.4/39

All:  $-74.894 \pm 0.496$   $\chi^2/\text{NDF}$ : 2282.9/76

reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 103.247 $\pm$ 0.070  $\chi^2$ /NDF: 273390.3/16

Left Out: 123.592 $\pm$ 0.044  $\chi^2$ /NDF: 465602.2/21

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

Left In: 130.029 $\pm$ 0.045  $\chi^2$ /NDF: 128238.5/19

Left: 126.754 $\pm$ 0.031  $\chi^2$ /NDF: 604411.4/41

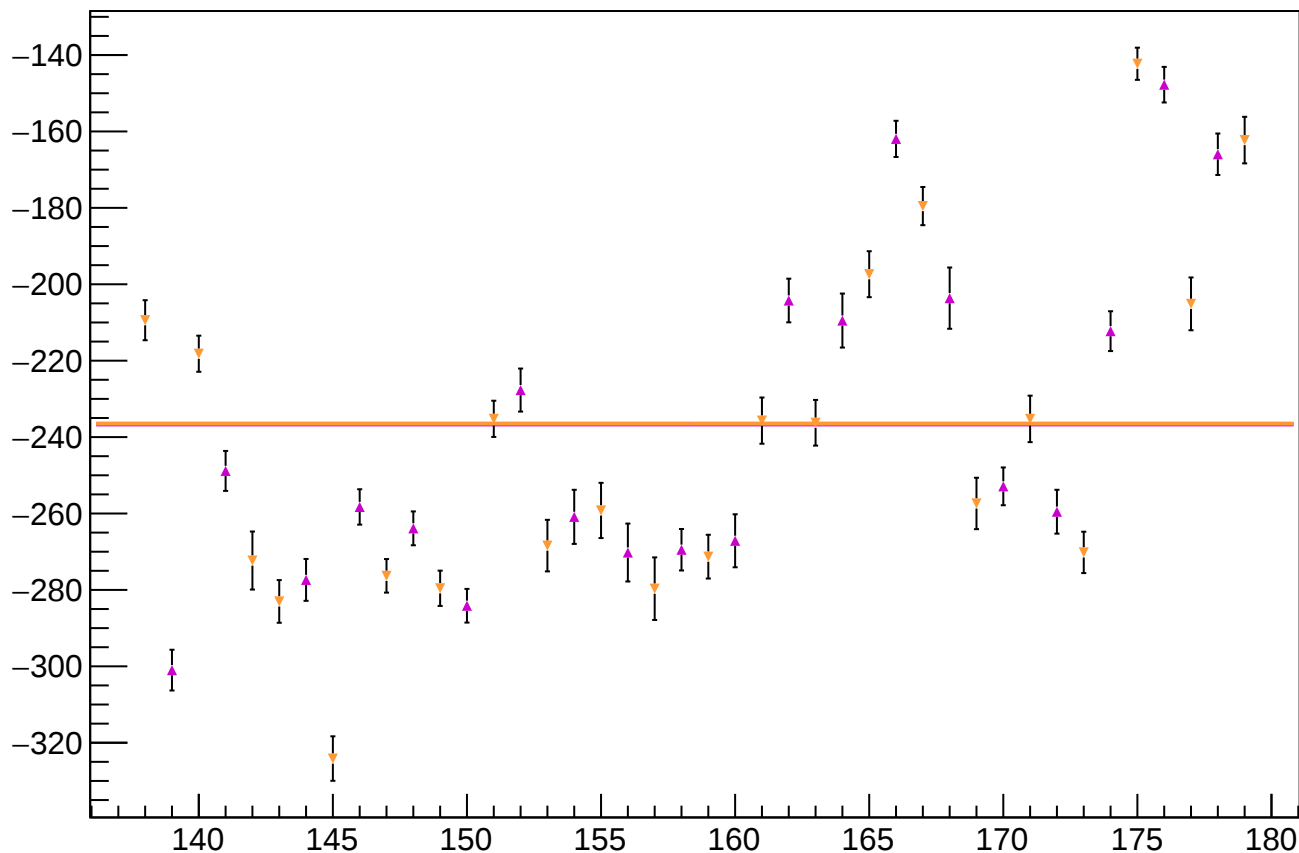
Right: 92.986 $\pm$ 0.047  $\chi^2$ /NDF: 723450.6/34

In: 122.355 $\pm$ 0.038  $\chi^2$ /NDF: 504706.9/36

Out: 111.083 $\pm$ 0.036  $\chi^2$ /NDF: 1130720.3/39

All: 116.484 $\pm$ 0.026  $\chi^2$ /NDF: 1681948.0/76

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: -236.462+/-1.195  $\chi^2/\text{NDF}$ :1516.2/21

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

Left In: -236.675+/-1.216  $\chi^2/\text{NDF}$ :1366.8/19

Left: -236.566+/-0.852  $\chi^2/\text{NDF}$ : 2882.9/41

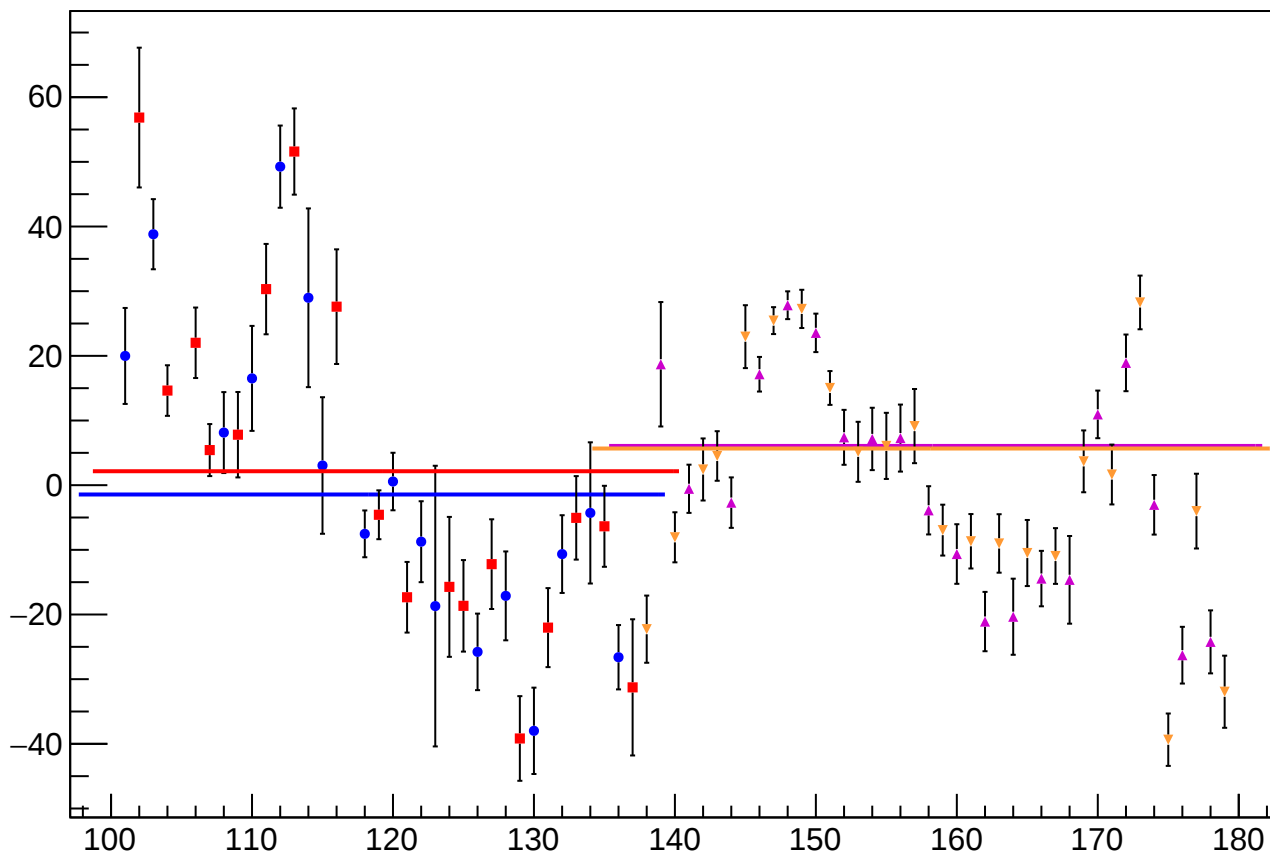
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -236.675+/-1.216  $\chi^2/\text{NDF}$ :1366.8/19

Out: -236.462+/-1.195  $\chi^2/\text{NDF}$ :1516.2/21

All: -236.566+/-0.852  $\chi^2/\text{NDF}$ : 2882.9/41

reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.440 \pm 1.516$   $\chi^2/\text{NDF}: 224.4/16$

Left Out:  $5.669 \pm 0.846$   $\chi^2/\text{NDF}: 471.3/21$

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}: 230.2/17$

Left In:  $6.068 \pm 0.880$   $\chi^2/\text{NDF}: 379.4/19$

Left:  $5.861 \pm 0.610$   $\chi^2/\text{NDF}: 850.8/41$

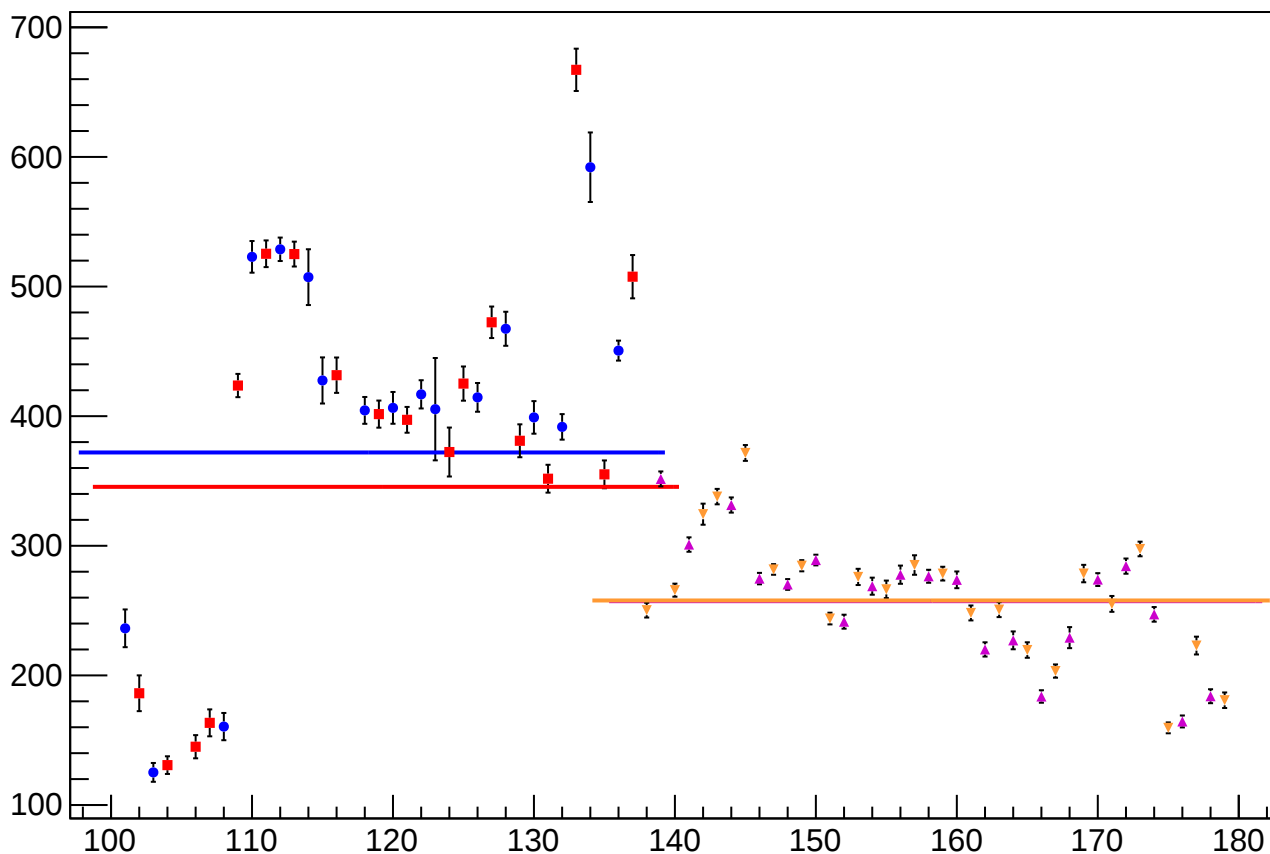
Right:  $0.500 \pm 1.029$   $\chi^2/\text{NDF}: 457.6/34$

In:  $4.176 \pm 0.761$   $\chi^2/\text{NDF}: 622.1/36$

Out:  $4.731 \pm 0.724$   $\chi^2/\text{NDF}: 706.1/39$

All:  $4.467 \pm 0.525$   $\chi^2/\text{NDF}: 1328.5/76$

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 371.997 $\pm$ 2.765  $\chi^2$ /NDF: 2431.2/16

Left Out: 257.800 $\pm$ 1.182  $\chi^2$ /NDF:1674.6/21

Right Out: 345.473 $\pm$ 2.564  $\chi^2$ /NDF: 3401.6/17

Left In: 257.261 $\pm$ 1.199  $\chi^2$ /NDF:1550.6/19

Left: 257.534 $\pm$ 0.842  $\chi^2$ /NDF: 3225.3/41

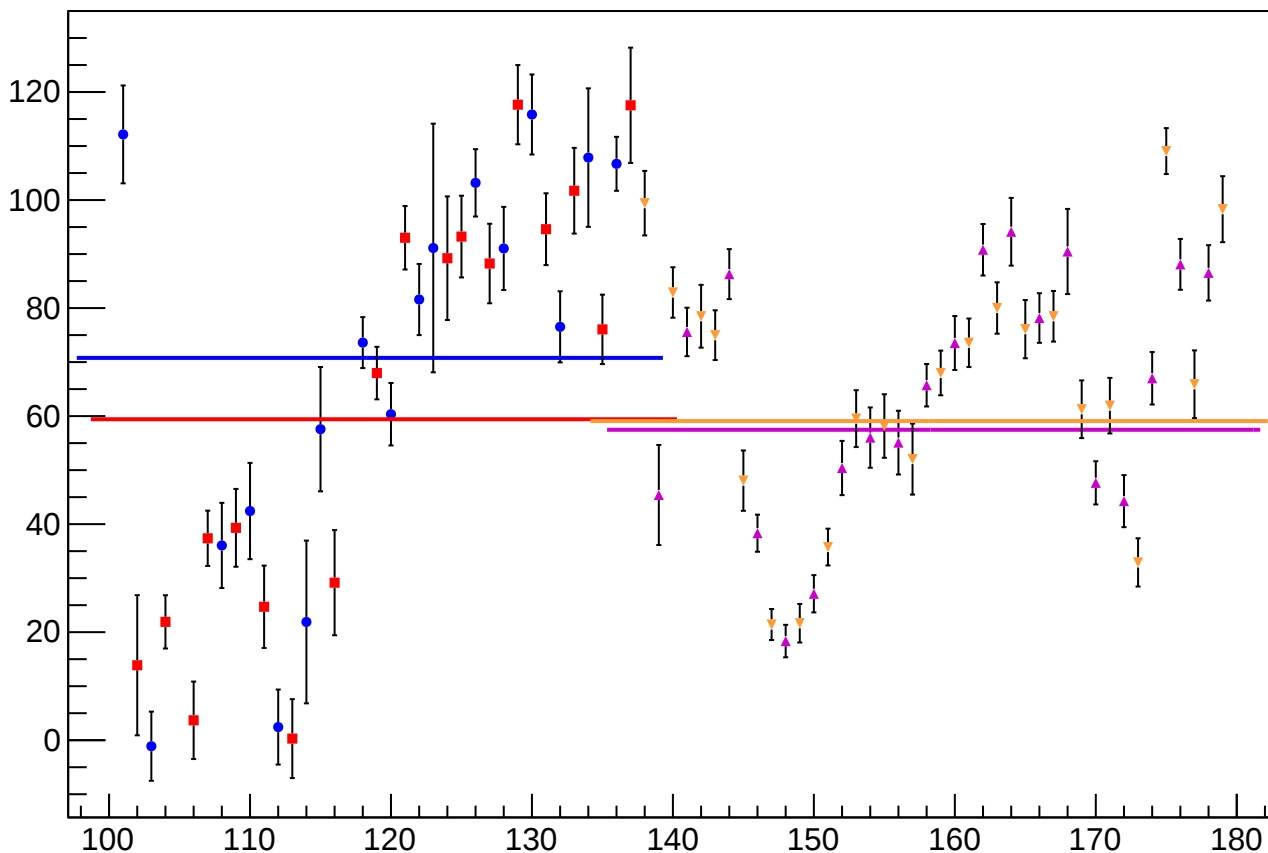
Right: 357.739 $\pm$ 1.880  $\chi^2$ /NDF: 5882.3/34

In: 275.417 $\pm$ 1.100  $\chi^2$ /NDF:5431.5/36

Out: 273.169 $\pm$ 1.074  $\chi^2$ /NDF:6040.2/39

All: 274.266 $\pm$ 0.768  $\chi^2$ /NDF: 11473.9/76

reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 70.780 $\pm$ 1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 59.084 $\pm$ 0.990  $\chi^2$ /NDF: 705.4/21

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

Left In: 57.470 $\pm$ 1.022  $\chi^2$ /NDF: 564.1/19

Left: 58.303 $\pm$ 0.711  $\chi^2$ /NDF: 1270.8/41

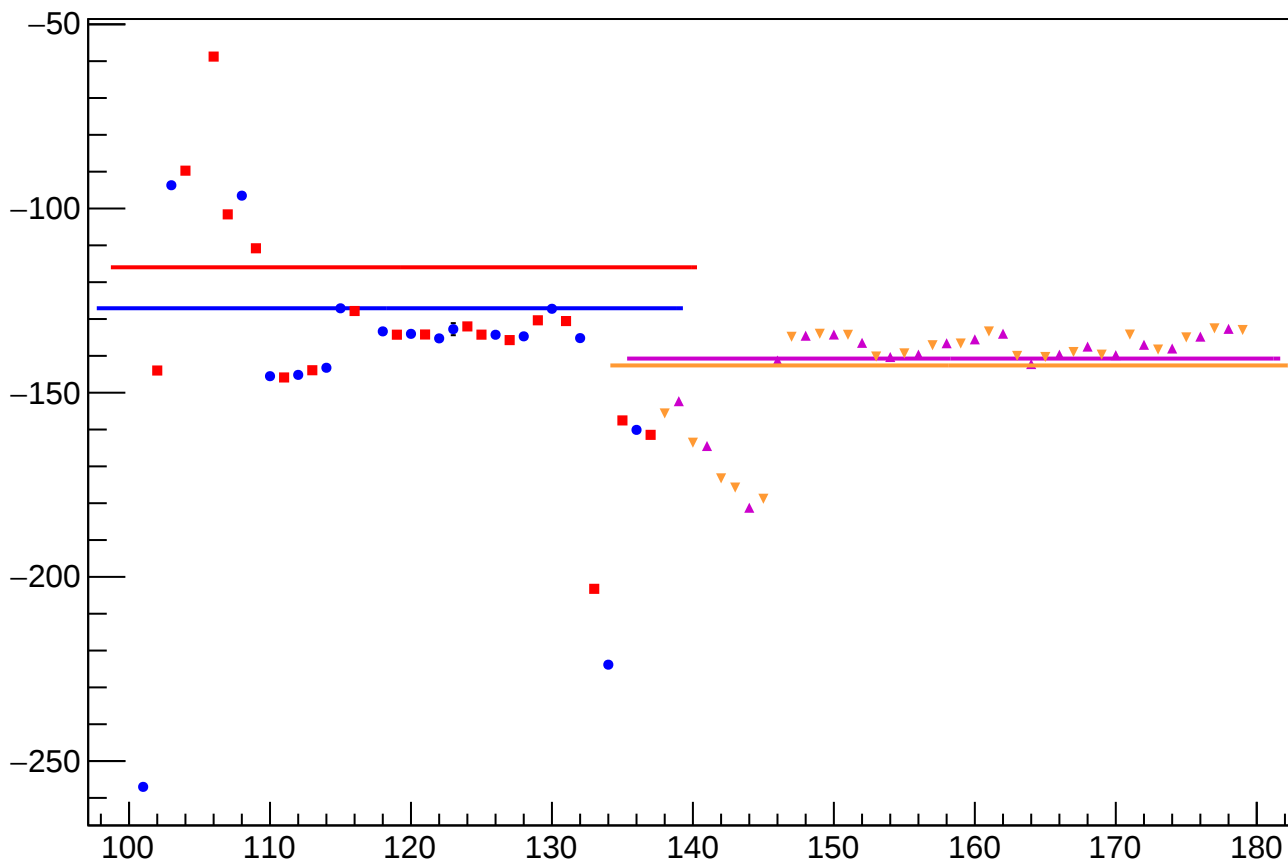
Right: 64.716 $\pm$ 1.193  $\chi^2$ /NDF: 933.1/34

In: 60.867 $\pm$ 0.882  $\chi^2$ /NDF: 1031.3/36

Out: 59.175 $\pm$ 0.847  $\chi^2$ /NDF: 1192.0/39

All: 59.986 $\pm$ 0.611  $\chi^2$ /NDF: 2225.3/76

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -127.076+/-0.090  $\chi^2/\text{NDF}$ : 167028.9/16

Left Out: -142.601+/-0.048  $\chi^2/\text{NDF}$ : 78461.5/21

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

Left In: -140.736+/-0.048  $\chi^2/\text{NDF}$ : 46796.4/19

Left: -141.673+/-0.034  $\chi^2/\text{NDF}$ : 126017.2/41

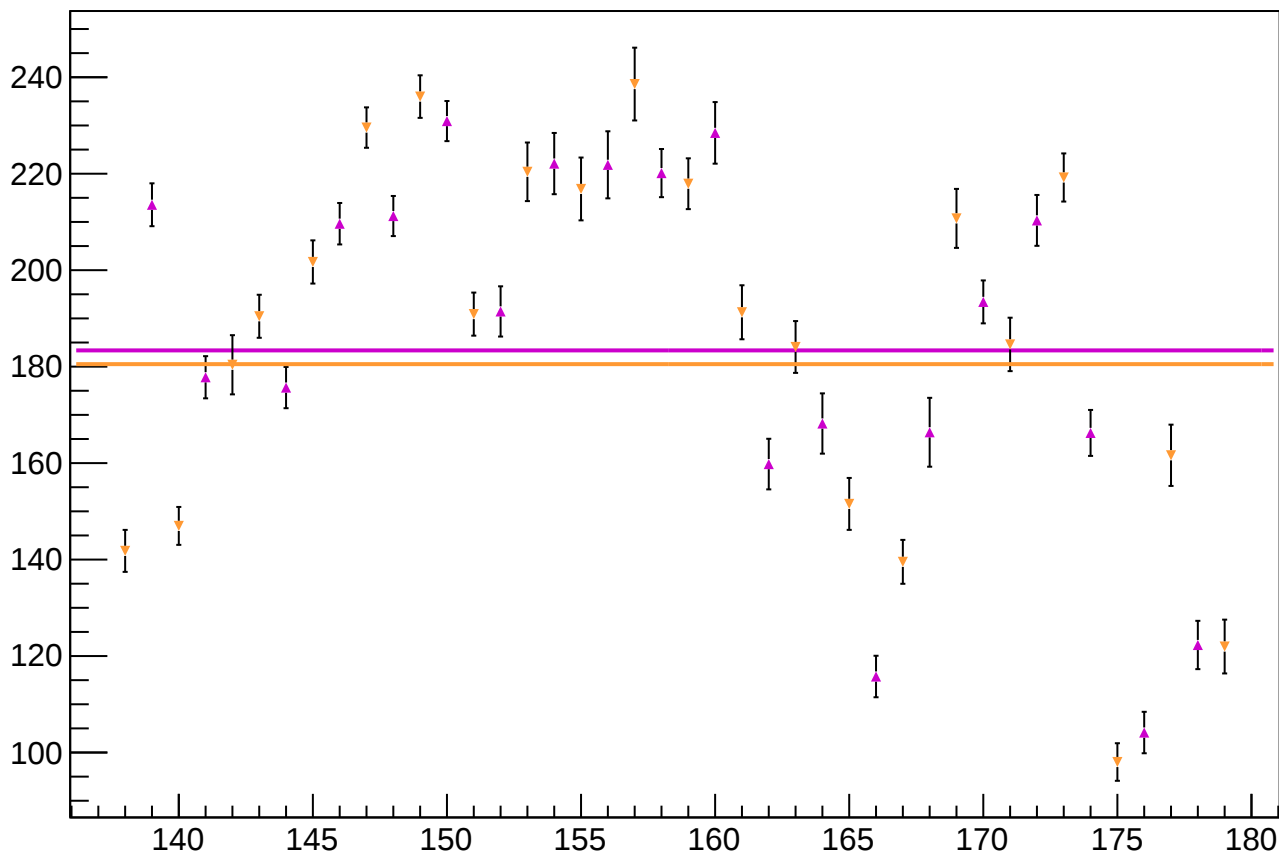
Right: -121.099+/-0.061  $\chi^2/\text{NDF}$ : 334303.0/34

In: -137.691+/-0.042  $\chi^2/\text{NDF}$ : 231917.4/36

Out: -135.978+/-0.041  $\chi^2/\text{NDF}$ : 314835.0/39

All: -136.817+/-0.030  $\chi^2/\text{NDF}$ : 547590.9/76

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 180.519+/-1.067  $\chi^2/\text{NDF}$ :1430.6/21

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

Left In: 183.368+/-1.095  $\chi^2/\text{NDF}$ :1250.1/19

Left: 181.907+/-0.764  $\chi^2/\text{NDF}$ : 2684.1/41

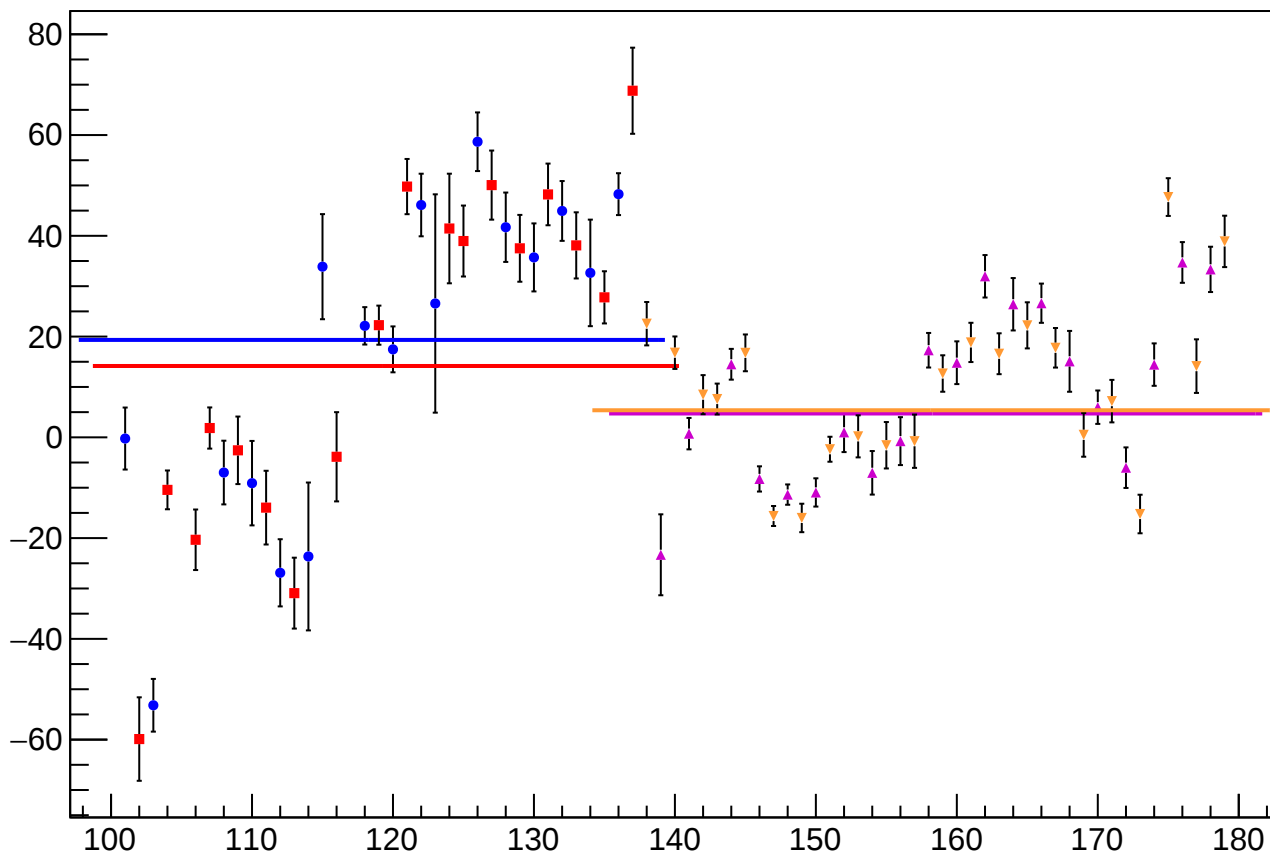
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 183.368+/-1.095  $\chi^2/\text{NDF}$ :1250.1/19

Out: 180.519+/-1.067  $\chi^2/\text{NDF}$ :1430.6/21

All: 181.907+/-0.764  $\chi^2/\text{NDF}$ : 2684.1/41

reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $19.337 \pm 1.482$   $\chi^2/\text{NDF}$ : 439.8/16

Left Out:  $5.374 \pm 0.763$   $\chi^2/\text{NDF}$ : 474.5/21

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}$ : 426.0/17

Left In:  $4.733 \pm 0.799$   $\chi^2/\text{NDF}$ : 376.4/19

Left:  $5.068 \pm 0.552$   $\chi^2/\text{NDF}$ : 851.2/41

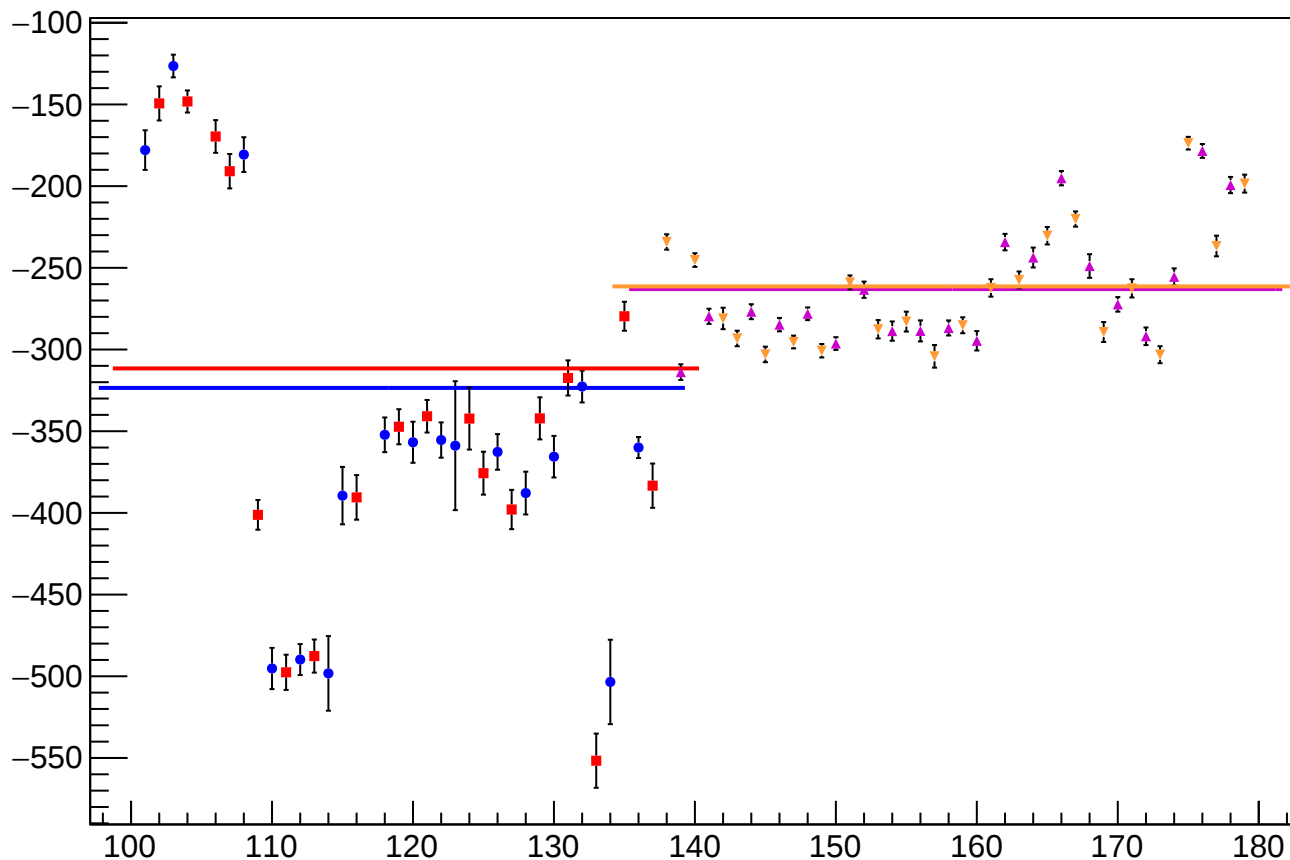
Right:  $16.585 \pm 1.014$   $\chi^2/\text{NDF}$ : 872.4/34

In:  $8.018 \pm 0.703$   $\chi^2/\text{NDF}$ : 891.4/36

Out:  $7.405 \pm 0.669$   $\chi^2/\text{NDF}$ : 931.2/39

All:  $7.696 \pm 0.485$   $\chi^2/\text{NDF}$ : 1823.0/76

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-323.491 \pm 2.673$   $\chi^2/\text{NDF}$ : 1847.6/16

Left Out:  $-261.366 \pm 1.061$   $\chi^2/\text{NDF}$ : 1294.8/21

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}$ : 2243.8/17

Left In:  $-262.985 \pm 1.083$   $\chi^2/\text{NDF}$ : 1221.4/19

Left:  $-262.159 \pm 0.758$   $\chi^2/\text{NDF}$ : 2517.4/41

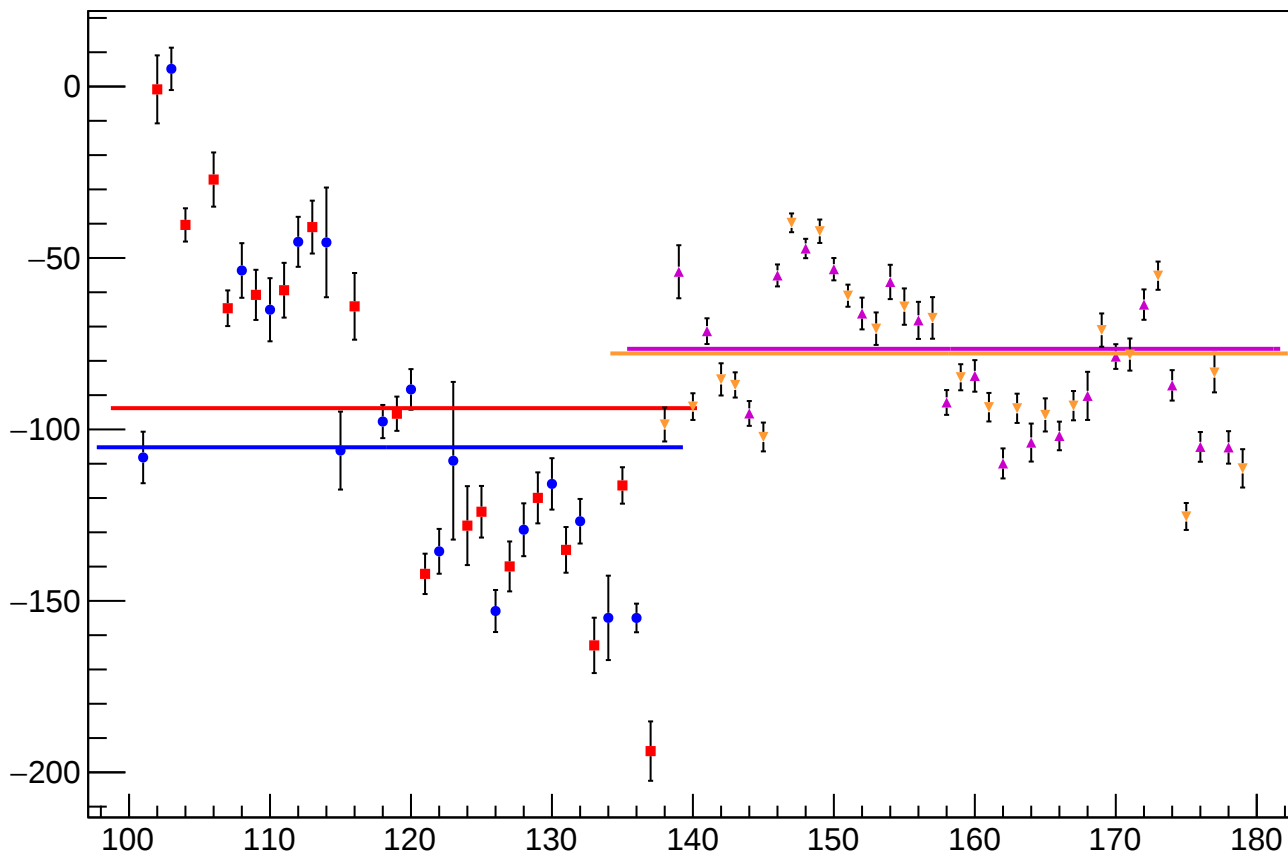
Right:  $-317.199 \pm 1.836$   $\chi^2/\text{NDF}$ : 4101.9/34

In:  $-271.520 \pm 1.004$   $\chi^2/\text{NDF}$ : 3509.2/36

Out:  $-268.892 \pm 0.978$   $\chi^2/\text{NDF}$ : 3874.2/39

All:  $-270.172 \pm 0.701$   $\chi^2/\text{NDF}$ : 7387.0/76

reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-105.203 \pm 1.697$   $\chi^2/\text{NDF}$ : 735.6/16

Left Out:  $-77.836 \pm 0.891$   $\chi^2/\text{NDF}$ : 691.0/21

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

Left In:  $-76.493 \pm 0.927$   $\chi^2/\text{NDF}$ : 503.1/19

Left:  $-77.191 \pm 0.642$   $\chi^2/\text{NDF}$ : 1195.2/41

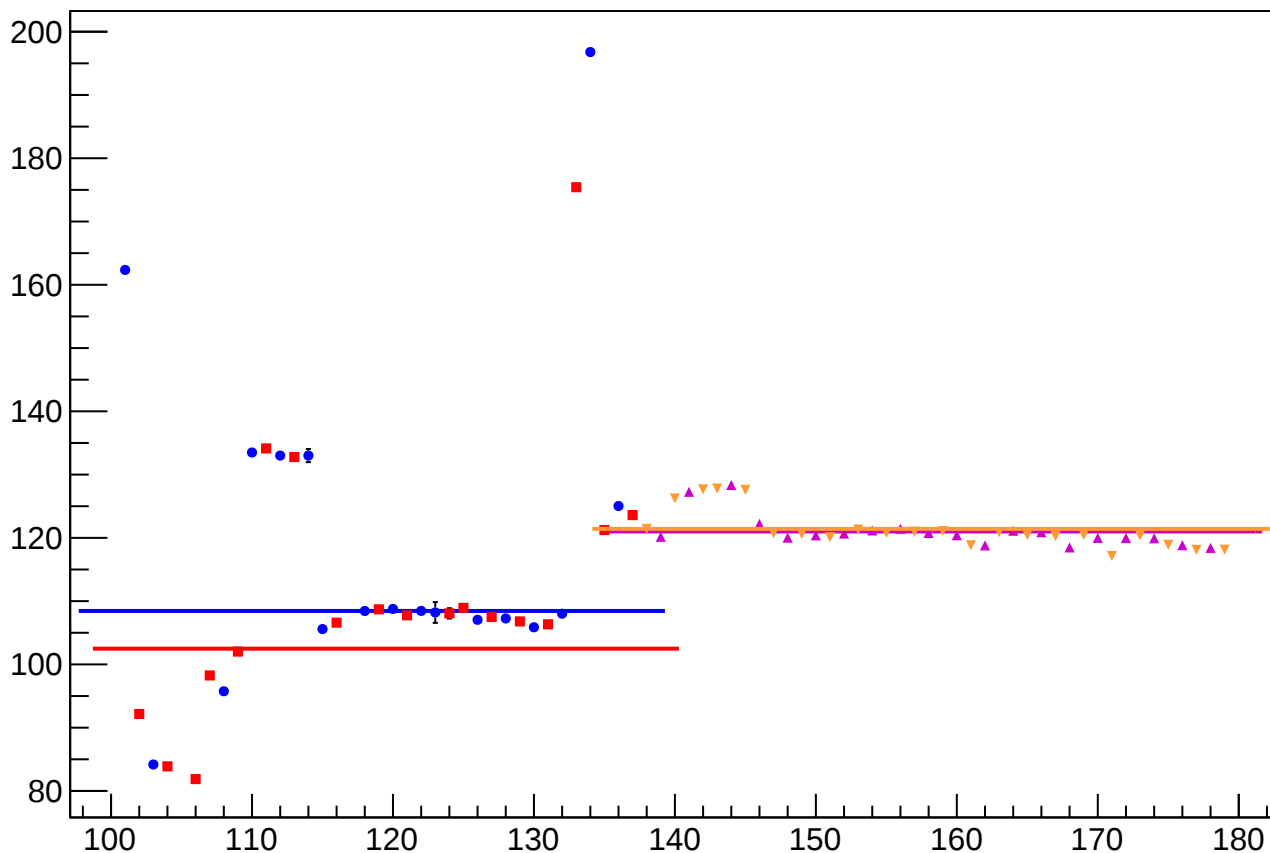
Right:  $-99.203 \pm 1.168$   $\chi^2/\text{NDF}$ : 1574.8/34

In:  $-83.088 \pm 0.813$   $\chi^2/\text{NDF}$ : 1459.3/36

Out:  $-81.575 \pm 0.780$   $\chi^2/\text{NDF}$ : 1581.6/39

All:  $-82.300 \pm 0.563$   $\chi^2/\text{NDF}$ : 3042.6/76

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 121.422 $\pm$ 0.043  $\chi^2$ /NDF: 4824.6/21

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

Left In: 121.012 $\pm$ 0.043  $\chi^2$ /NDF: 3152.0/19

Left: 121.219 $\pm$ 0.030  $\chi^2$ /NDF: 8022.1/41

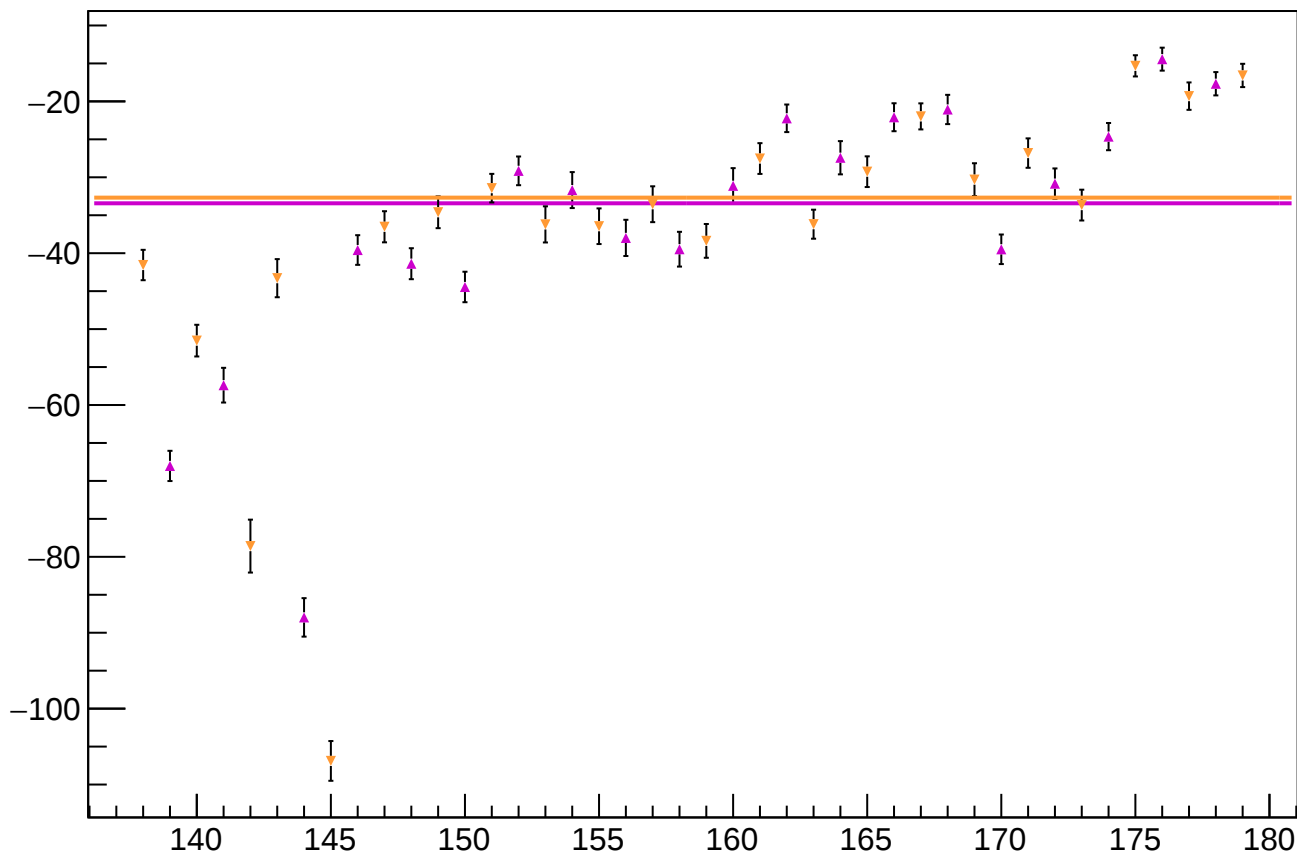
Right: 105.281 $\pm$ 0.058  $\chi^2$ /NDF: 128799.0/34

In: 118.416 $\pm$ 0.039  $\chi^2$ /NDF: 93835.6/36

Out: 117.180 $\pm$ 0.038  $\chi^2$ /NDF: 101624.7/39

All: 117.784 $\pm$ 0.027  $\chi^2$ /NDF: 195986.0/76

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -32.681+/-0.429  $\chi^2/\text{NDF}$ :1493.0/21

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

Left In: -33.426+/-0.442  $\chi^2/\text{NDF}$ :1370.1/19

Left: -33.043+/-0.308  $\chi^2/\text{NDF}$ : 2864.6/41

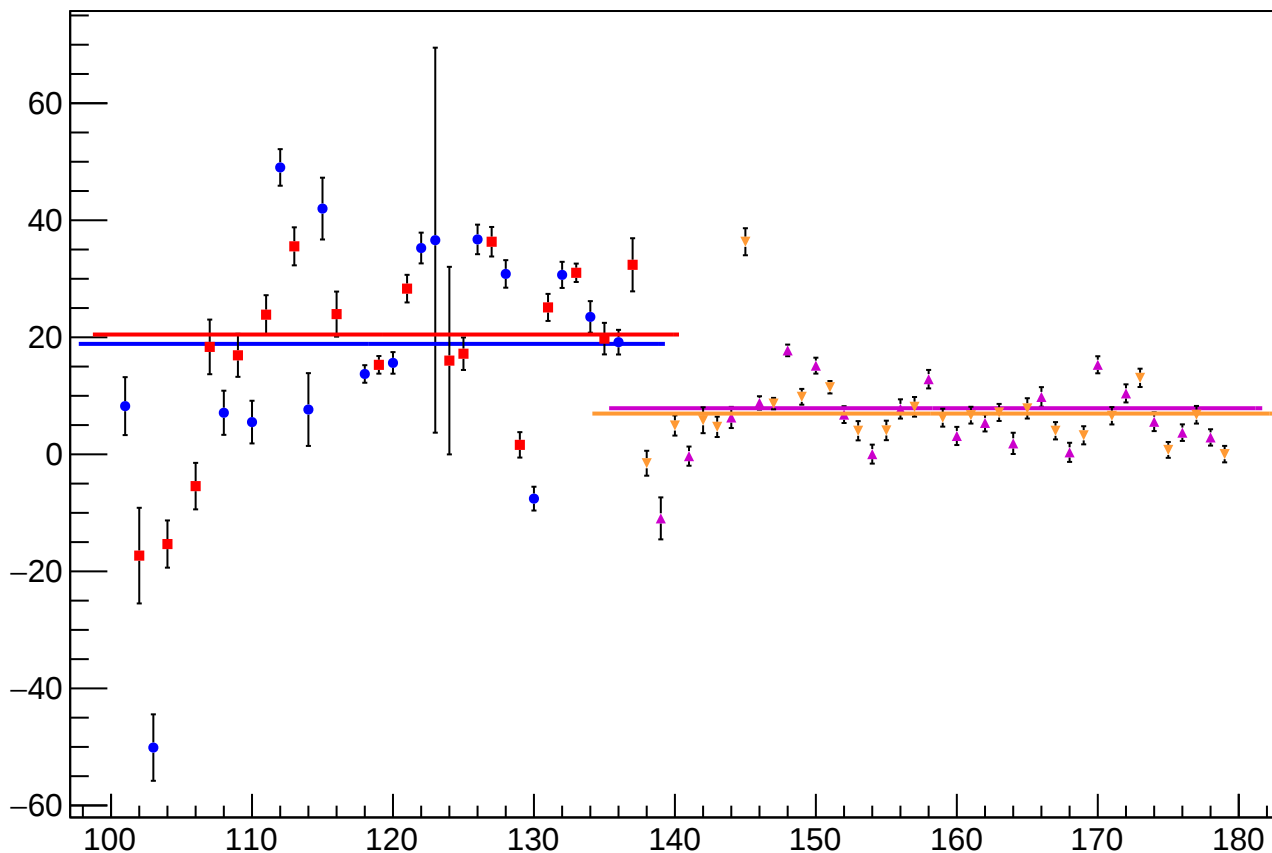
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -33.426+/-0.442  $\chi^2/\text{NDF}$ :1370.1/19

Out: -32.681+/-0.429  $\chi^2/\text{NDF}$ :1493.0/21

All: -33.043+/-0.308  $\chi^2/\text{NDF}$ : 2864.6/41

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.876 \pm 0.644$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $6.966 \pm 0.319$   $\chi^2/\text{NDF}$ : 283.7/21

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

Left In:  $7.880 \pm 0.335$   $\chi^2/\text{NDF}$ : 313.6/19

Left:  $7.402 \pm 0.231$   $\chi^2/\text{NDF}$ : 601.3/41

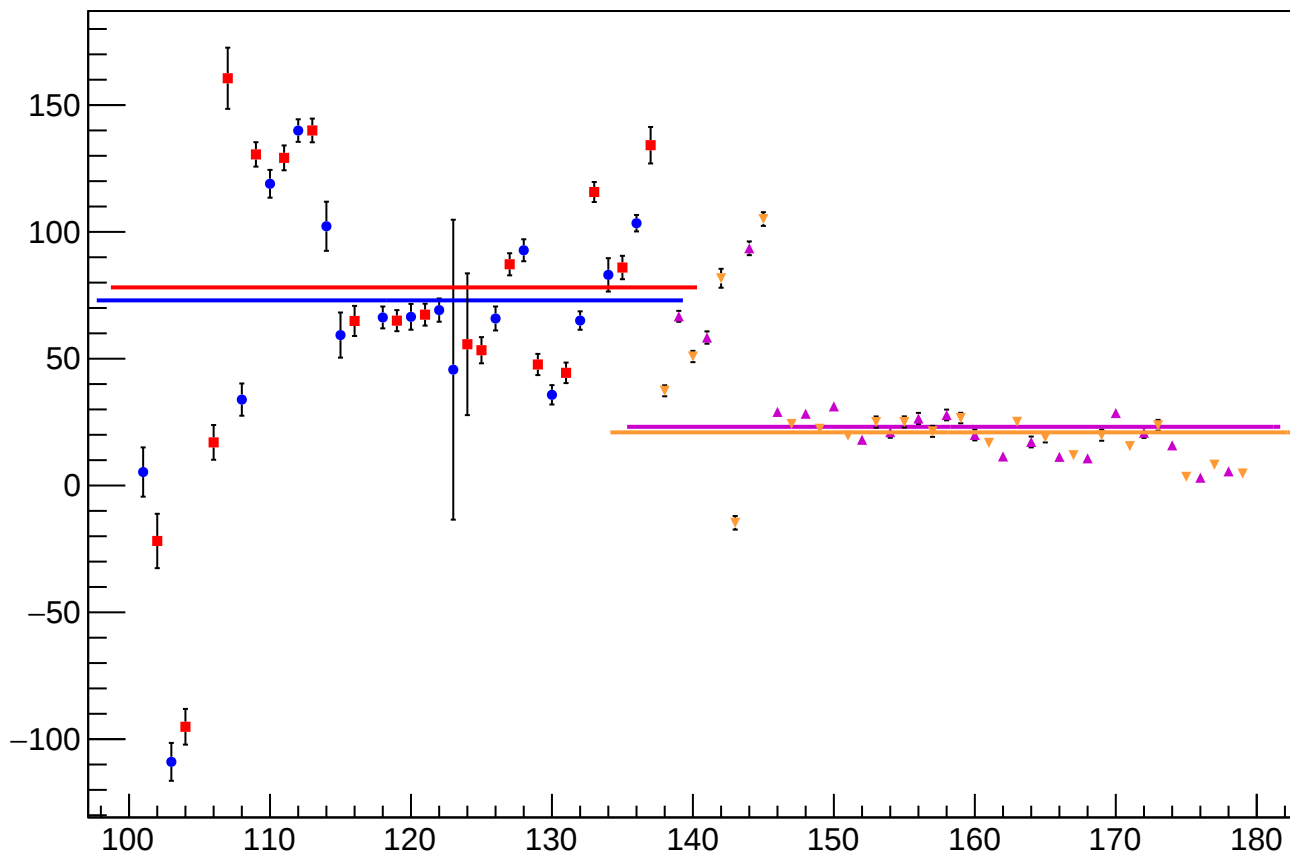
Right:  $19.676 \pm 0.455$   $\chi^2/\text{NDF}$ : 986.0/34

In:  $10.215 \pm 0.297$   $\chi^2/\text{NDF}$ : 1163.4/36

Out:  $9.636 \pm 0.286$   $\chi^2/\text{NDF}$ : 999.7/39

All:  $9.915 \pm 0.206$   $\chi^2/\text{NDF}$ : 2165.1/76

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 72.992 $\pm$ 1.230  $\chi^2$ /NDF: 1205.5/16

Left Out: 20.957 $\pm$ 0.424  $\chi^2$ /NDF:2037.1/21

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

Left In: 23.145 $\pm$ 0.436  $\chi^2$ /NDF:1814.3/19

Left: 22.020 $\pm$ 0.304  $\chi^2$ /NDF: 3864.3/41

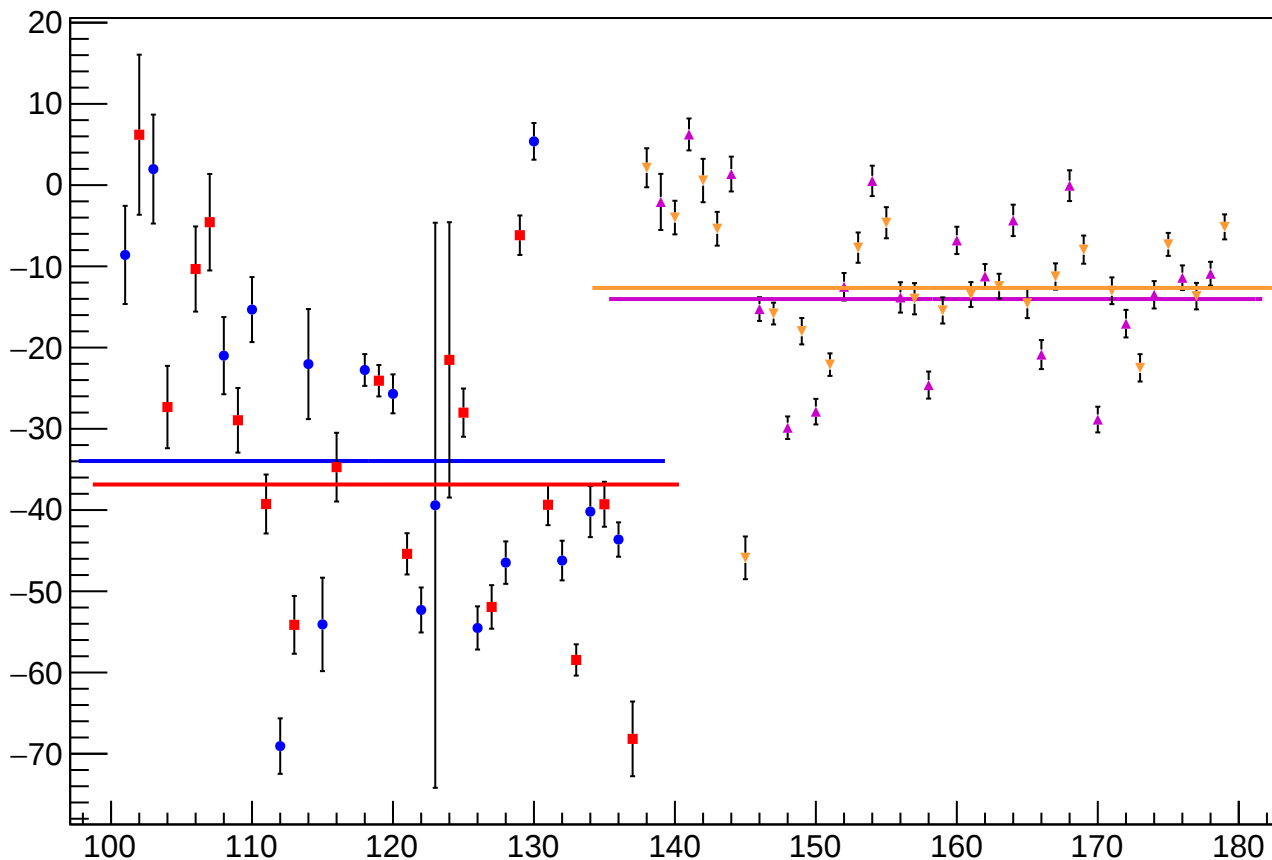
Right: 75.568 $\pm$ 0.868  $\chi^2$ /NDF: 2761.0/34

In: 28.716 $\pm$ 0.411  $\chi^2$ /NDF:4478.5/36

Out: 27.088 $\pm$ 0.401  $\chi^2$ /NDF:5531.4/39

All: 27.881 $\pm$ 0.287  $\chi^2$ /NDF: 10017.9/76

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.964 \pm 0.738$   $\chi^2/\text{NDF}$ : 721.9/16

Left Out:  $-12.656 \pm 0.366$   $\chi^2/\text{NDF}$ : 424.7/21

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}$ : 535.3/17

Left In:  $-14.026 \pm 0.381$   $\chi^2/\text{NDF}$ : 694.3/19

Left:  $-13.312 \pm 0.264$   $\chi^2/\text{NDF}$ : 1125.8/41

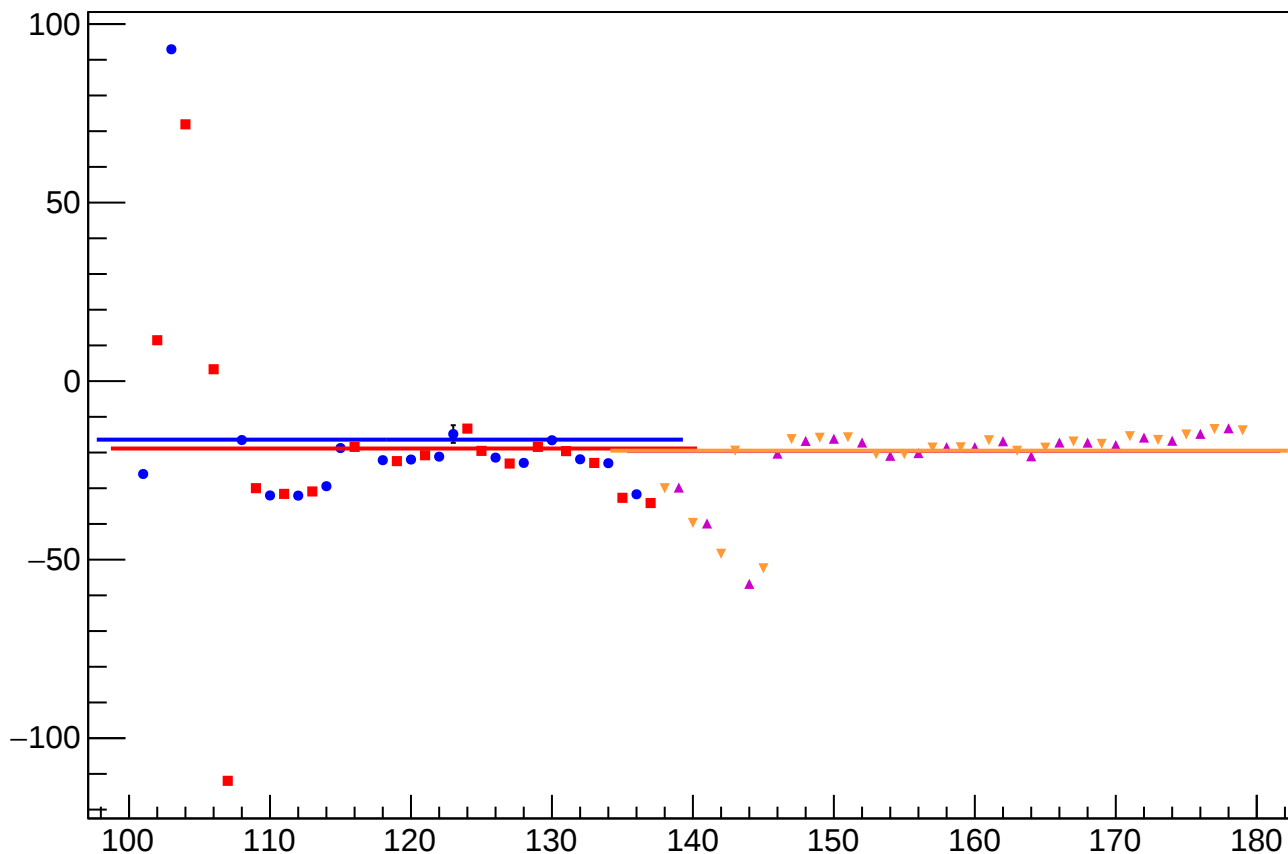
Right:  $-35.411 \pm 0.521$   $\chi^2/\text{NDF}$ : 1264.9/34

In:  $-18.232 \pm 0.339$   $\chi^2/\text{NDF}$ : 1992.8/36

Out:  $-17.436 \pm 0.328$   $\chi^2/\text{NDF}$ : 1825.4/39

All:  $-17.820 \pm 0.235$   $\chi^2/\text{NDF}$ : 3821.1/76

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-16.386 \pm 0.044$   $\chi^2/\text{NDF}: 474297.3/16$

Left Out:  $-19.479 \pm 0.017$   $\chi^2/\text{NDF}: 224416.7/21$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

Left In:  $-19.580 \pm 0.017$   $\chi^2/\text{NDF}: 185768.5/19$

Left:  $-19.528 \pm 0.012$   $\chi^2/\text{NDF}: 410202.6/41$

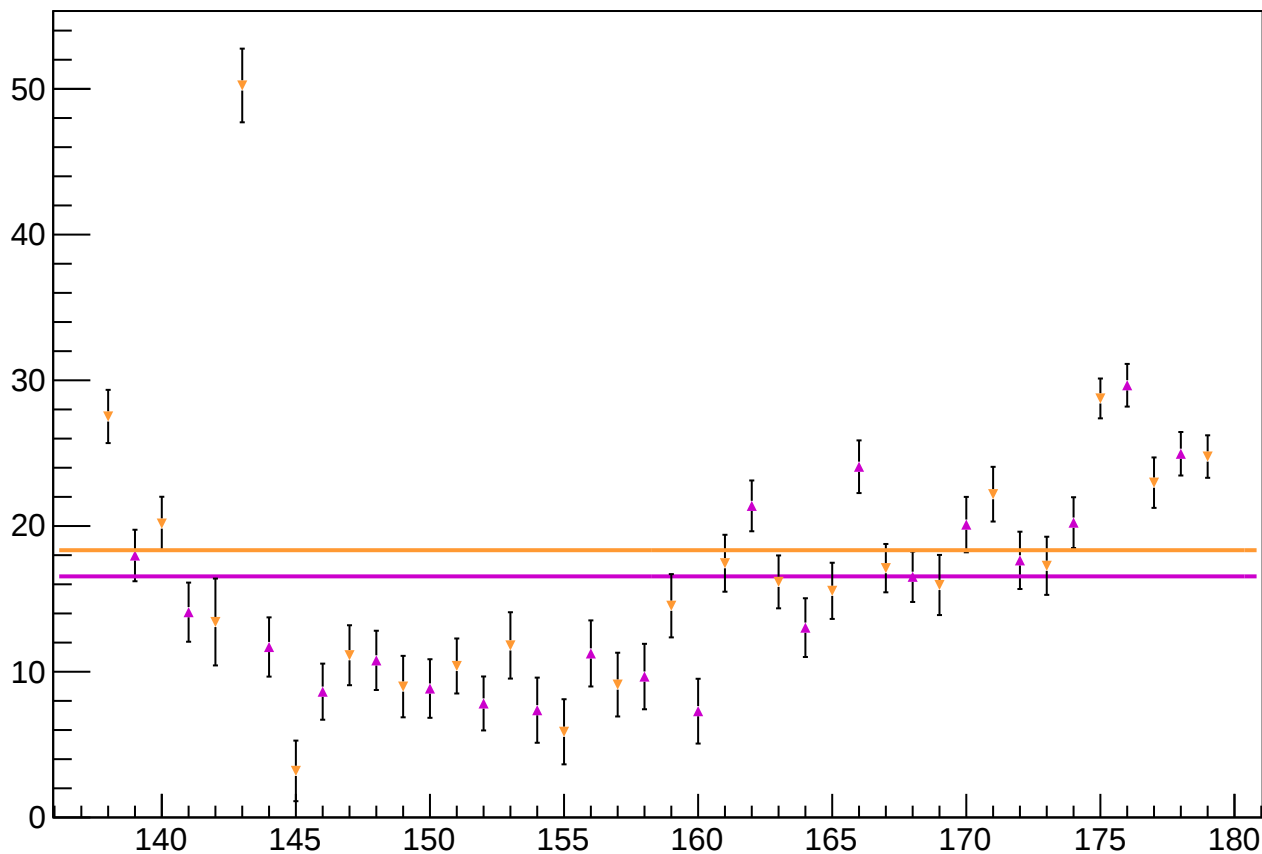
Right:  $-17.607 \pm 0.032$   $\chi^2/\text{NDF}: 909205.2/34$

In:  $-19.161 \pm 0.016$   $\chi^2/\text{NDF}: 664546.9/36$

Out:  $-19.405 \pm 0.016$   $\chi^2/\text{NDF}: 657946.0/39$

All:  $-19.284 \pm 0.011$   $\chi^2/\text{NDF}: 1322609.3/76$

reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 18.340+/-0.410  $\chi^2/\text{NDF}$ :445.9/21

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

Left In: 16.545+/-0.421  $\chi^2/\text{NDF}$ :266.9/19

Left: 17.467+/-0.294  $\chi^2/\text{NDF}$ : 722.1/41

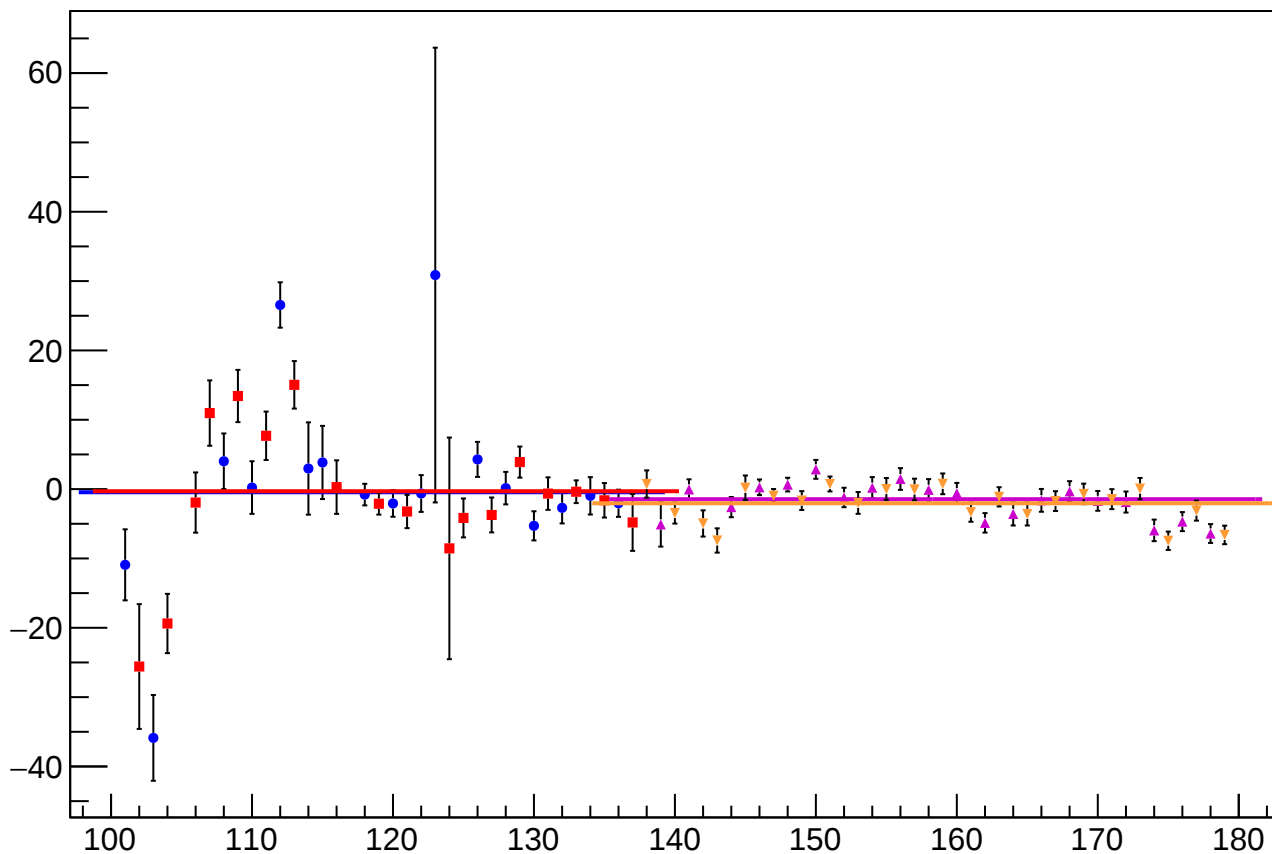
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.545+/-0.421  $\chi^2/\text{NDF}$ :266.9/19

Out: 18.340+/-0.410  $\chi^2/\text{NDF}$ :445.9/21

All: 17.467+/-0.294  $\chi^2/\text{NDF}$ : 722.1/41

reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.452 \pm 0.654$   $\chi^2/\text{NDF}$ : 119.5/16

Left Out:  $-2.044 \pm 0.307$   $\chi^2/\text{NDF}$ : 65.0/21

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

Left In:  $-1.458 \pm 0.321$   $\chi^2/\text{NDF}$ : 60.9/19

Left:  $-1.763 \pm 0.222$   $\chi^2/\text{NDF}$ : 127.6/41

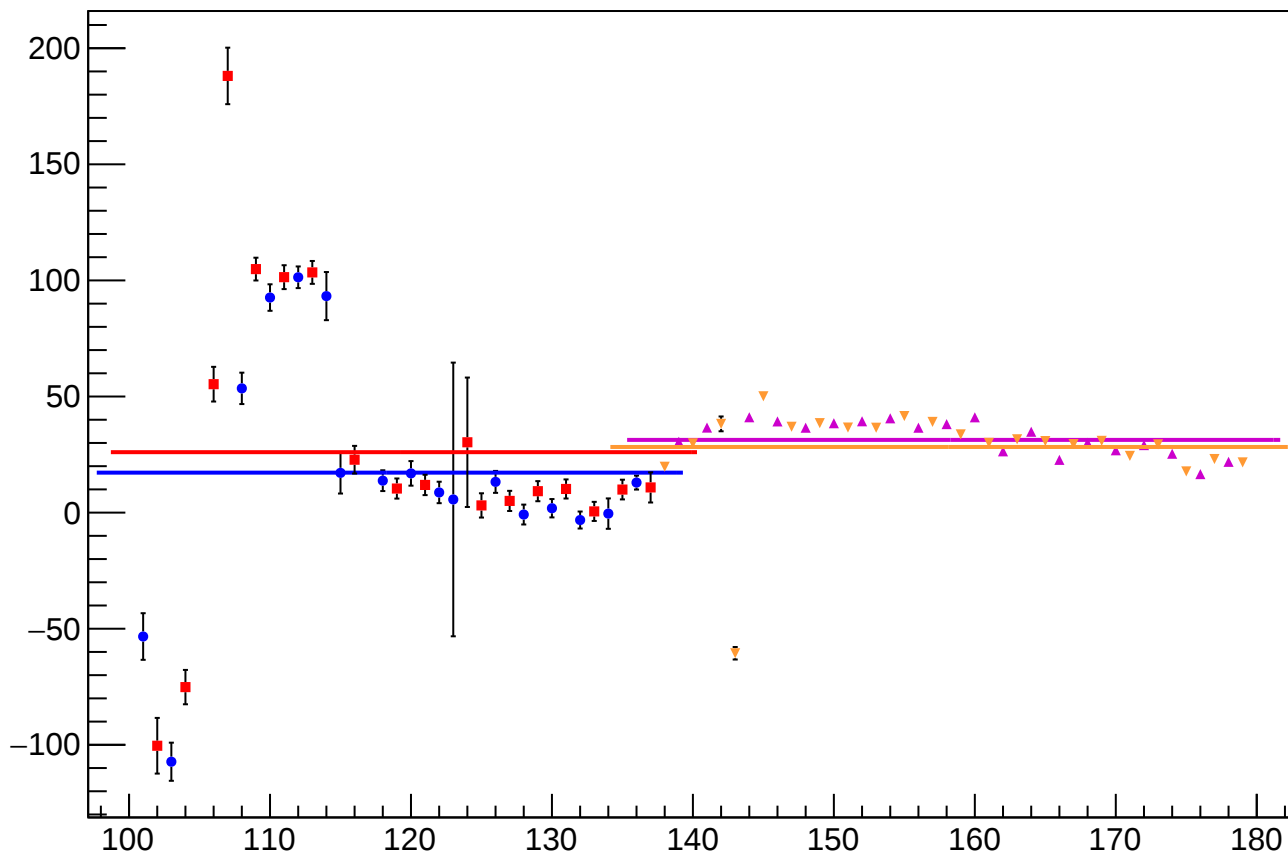
Right:  $-0.379 \pm 0.464$   $\chi^2/\text{NDF}$ : 203.7/34

In:  $-1.263 \pm 0.288$   $\chi^2/\text{NDF}$ : 182.3/36

Out:  $-1.732 \pm 0.278$   $\chi^2/\text{NDF}$ : 154.9/39

All:  $-1.505 \pm 0.200$   $\chi^2/\text{NDF}$ : 338.6/76

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $17.218 \pm 1.241$   $\chi^2/\text{NDF}: 940.1/16$

Left Out:  $28.271 \pm 0.406$   $\chi^2/\text{NDF}: 1478.6/21$

Right Out:  $26.032 \pm 1.244$   $\chi^2/\text{NDF}: 1366.0/17$

Left In:  $31.321 \pm 0.416$   $\chi^2/\text{NDF}: 341.4/19$

Left:  $29.756 \pm 0.291$   $\chi^2/\text{NDF}: 1847.5/41$

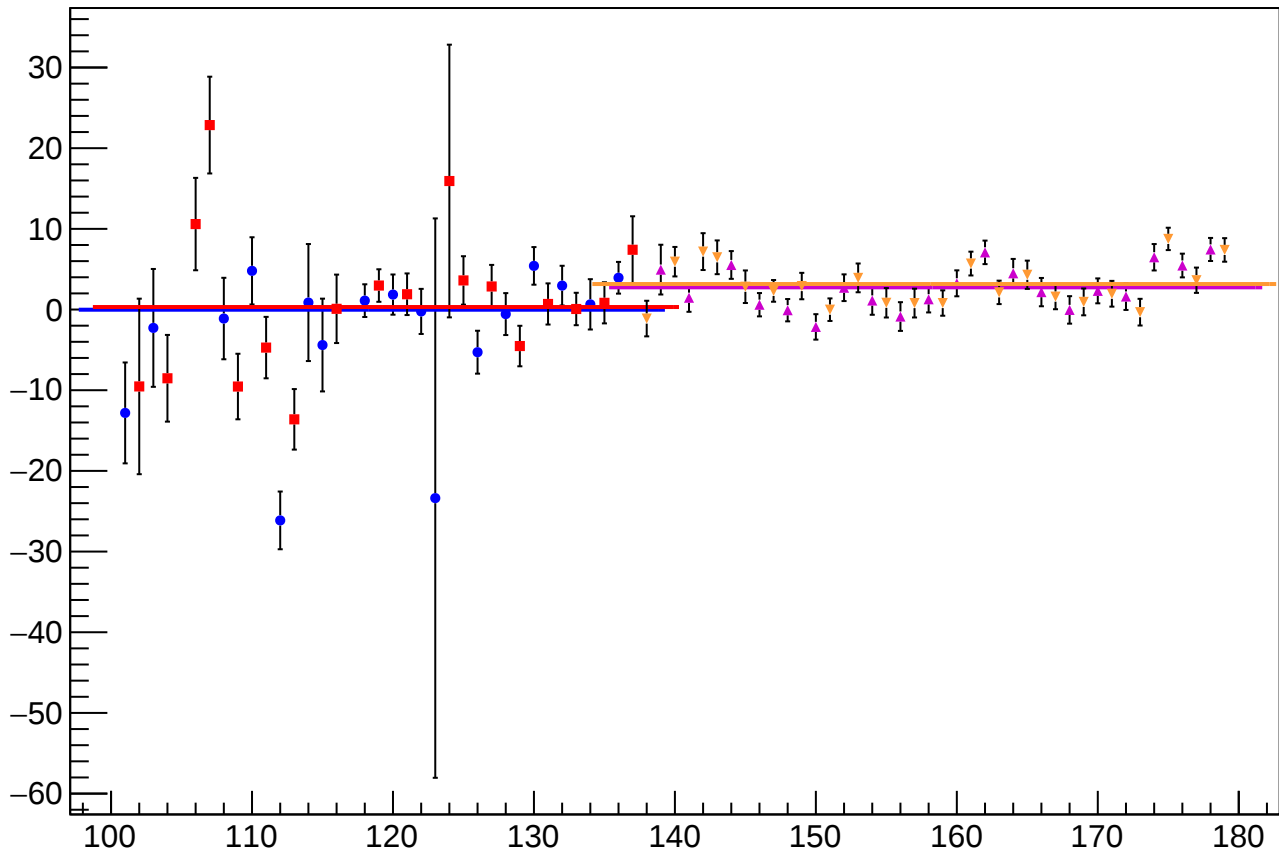
Right:  $21.614 \pm 0.879$   $\chi^2/\text{NDF}: 2331.3/34$

In:  $29.893 \pm 0.395$   $\chi^2/\text{NDF}: 1397.6/36$

Out:  $28.056 \pm 0.386$   $\chi^2/\text{NDF}: 2847.5/39$

All:  $28.953 \pm 0.276$   $\chi^2/\text{NDF}: 4256.2/76$

reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.022 \pm 0.745$   $\chi^2/\text{NDF}$ : 75.8/16

Left Out:  $3.162 \pm 0.351$   $\chi^2/\text{NDF}$ : 59.6/21

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

Left In:  $2.752 \pm 0.365$   $\chi^2/\text{NDF}$ : 58.1/19

Left:  $2.965 \pm 0.253$   $\chi^2/\text{NDF}$ : 118.4/41

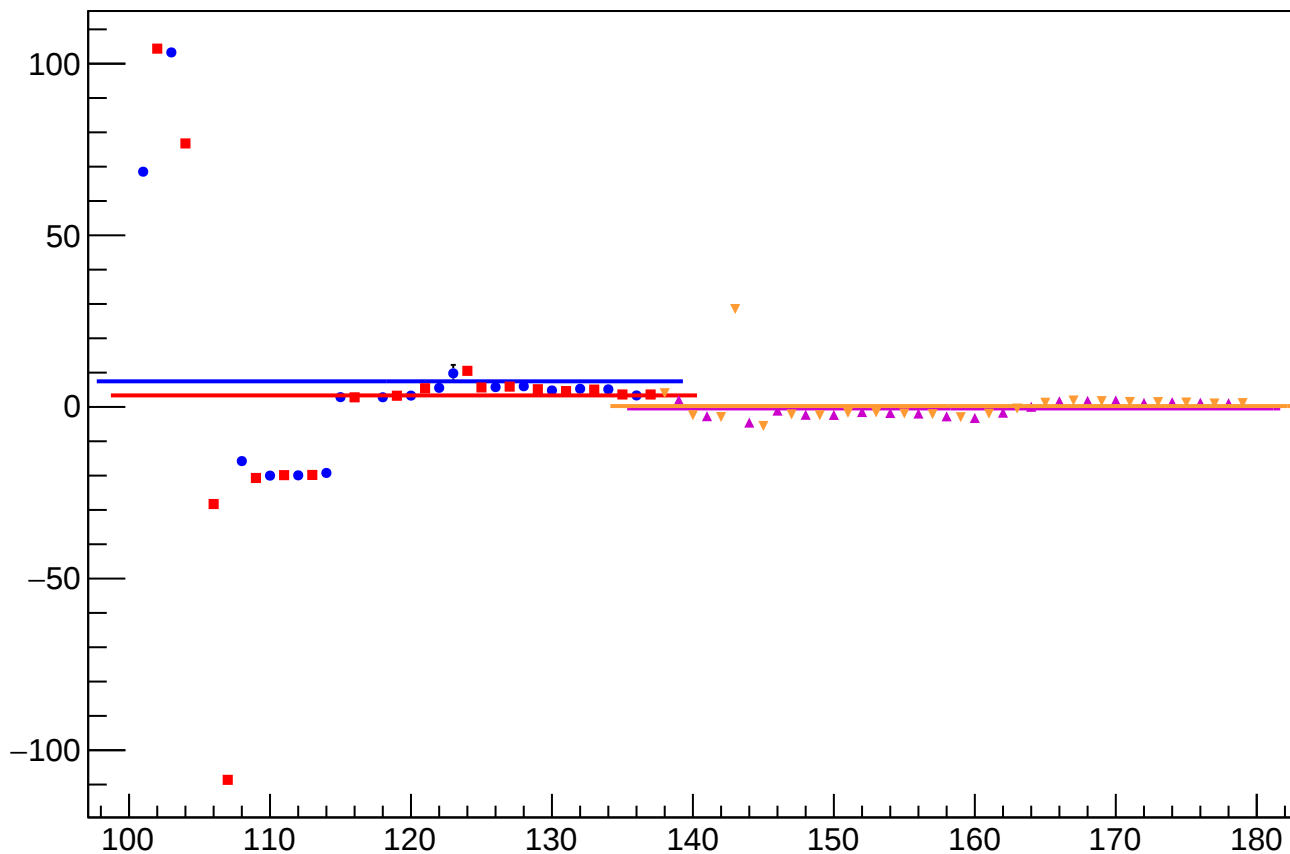
Right:  $0.144 \pm 0.528$   $\chi^2/\text{NDF}$ : 130.0/34

In:  $2.214 \pm 0.328$   $\chi^2/\text{NDF}$ : 145.2/36

Out:  $2.650 \pm 0.318$   $\chi^2/\text{NDF}$ : 125.5/39

All:  $2.439 \pm 0.228$   $\chi^2/\text{NDF}$ : 271.6/76

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 7.467+/-0.044  $\chi^2/\text{NDF}$ : 355890.1/16

Left Out: 0.259+/-0.016  $\chi^2/\text{NDF}$ : 87110.5/21

Right Out: 3.362+/-0.046  $\chi^2/\text{NDF}$ : 504811.4/17

Left In: -0.434+/-0.016  $\chi^2/\text{NDF}$ : 14016.0/19

Left: -0.081+/-0.012  $\chi^2/\text{NDF}$ : 102029.3/41

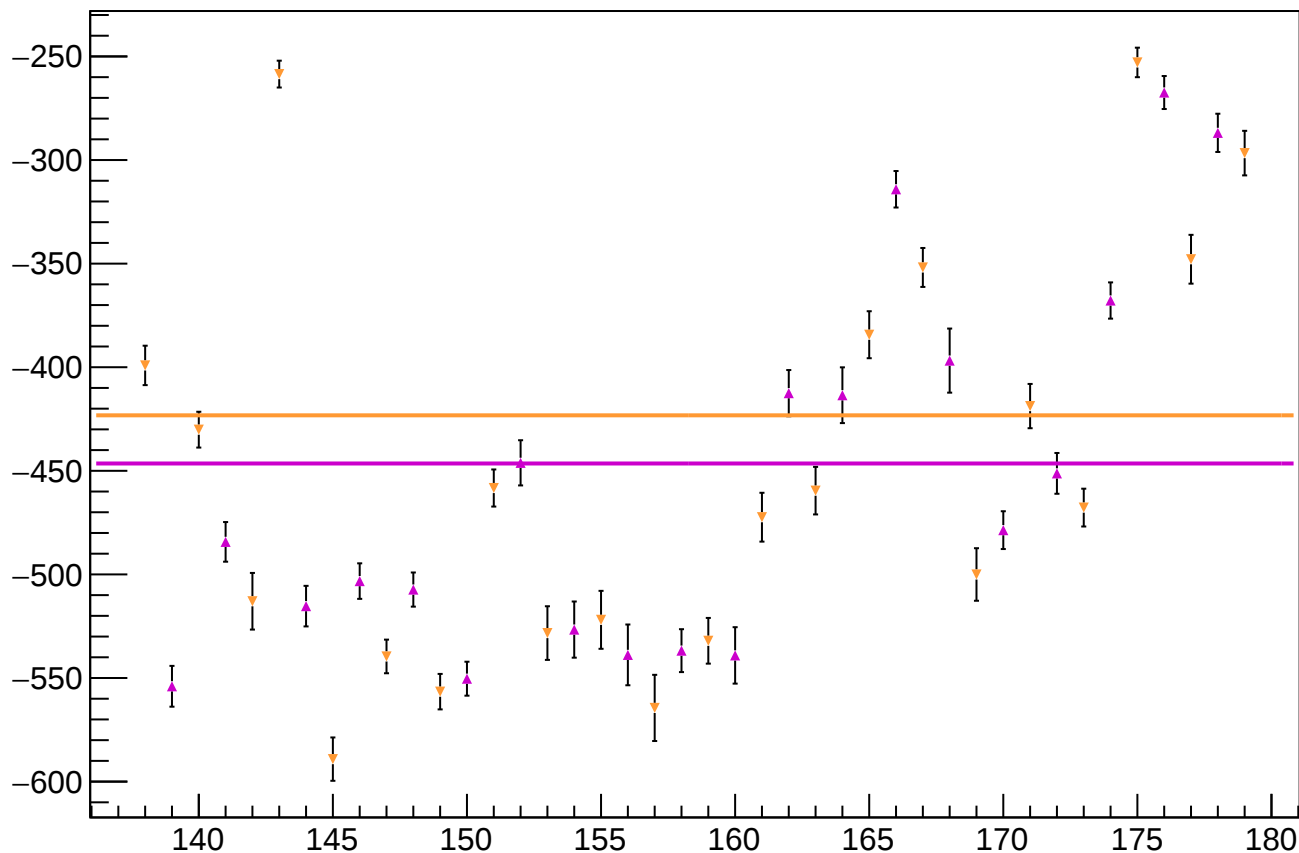
Right: 5.466+/-0.032  $\chi^2/\text{NDF}$ : 864856.4/34

In: 0.517+/-0.015  $\chi^2/\text{NDF}$ : 397672.0/36

Out: 0.605+/-0.015  $\chi^2/\text{NDF}$ : 596036.7/39

All: 0.562+/-0.011  $\chi^2/\text{NDF}$ : 993724.9/76

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: -423.217+/-2.114  $\chi^2/\text{NDF}$ :2611.8/21

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

Left In: -446.462+/-2.227  $\chi^2/\text{NDF}$ :1790.4/19

Left: -434.237+/-1.533  $\chi^2/\text{NDF}$ : 4459.5/41

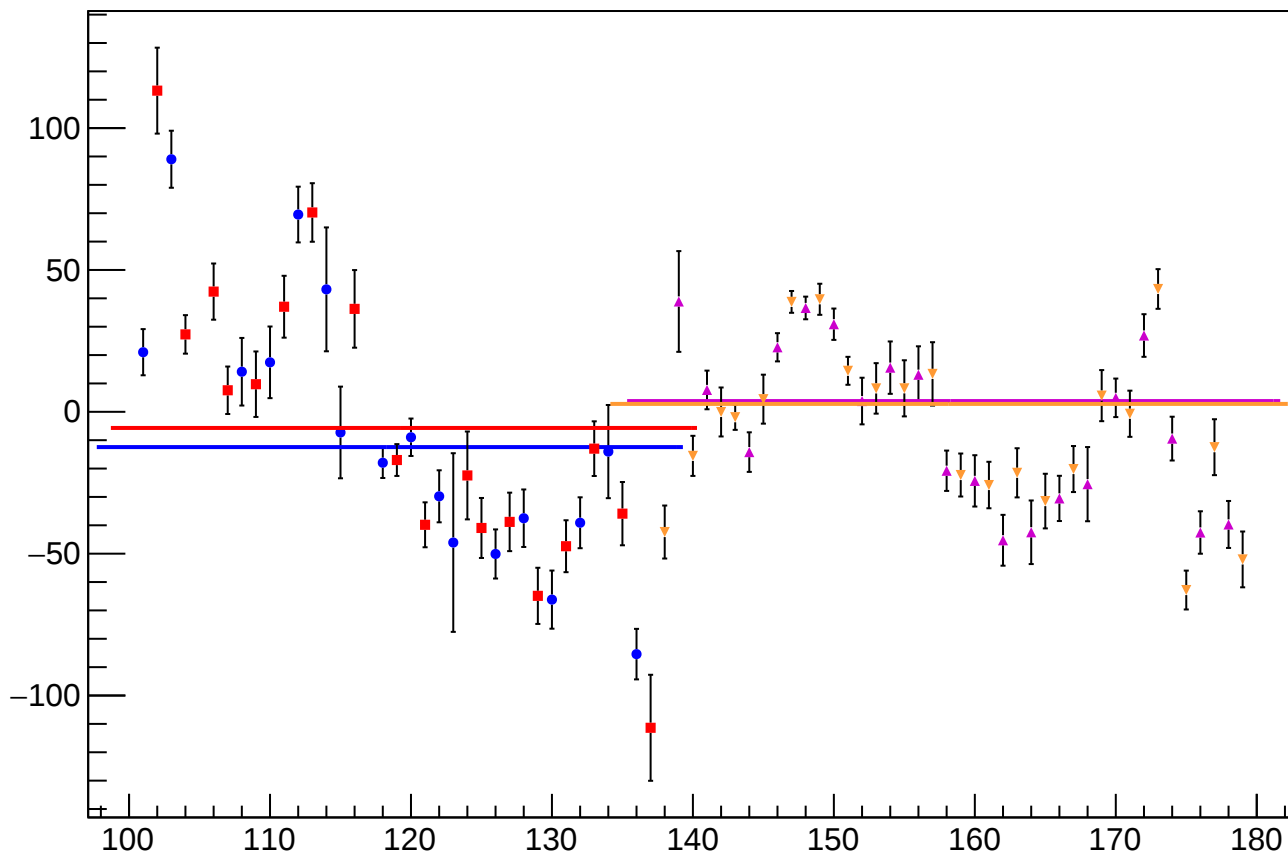
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -446.462+/-2.227  $\chi^2/\text{NDF}$ :1790.4/19

Out: -423.217+/-2.114  $\chi^2/\text{NDF}$ :2611.8/21

All: -434.237+/-1.533  $\chi^2/\text{NDF}$ : 4459.5/41

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-12.431 \pm 2.315$   $\chi^2/\text{NDF}$ : 340.2/16

Left Out:  $2.787 \pm 1.502$   $\chi^2/\text{NDF}$ : 382.0/21

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

Left In:  $3.790 \pm 1.621$   $\chi^2/\text{NDF}$ : 290.2/19

Left:  $3.250 \pm 1.102$   $\chi^2/\text{NDF}$ : 672.3/41

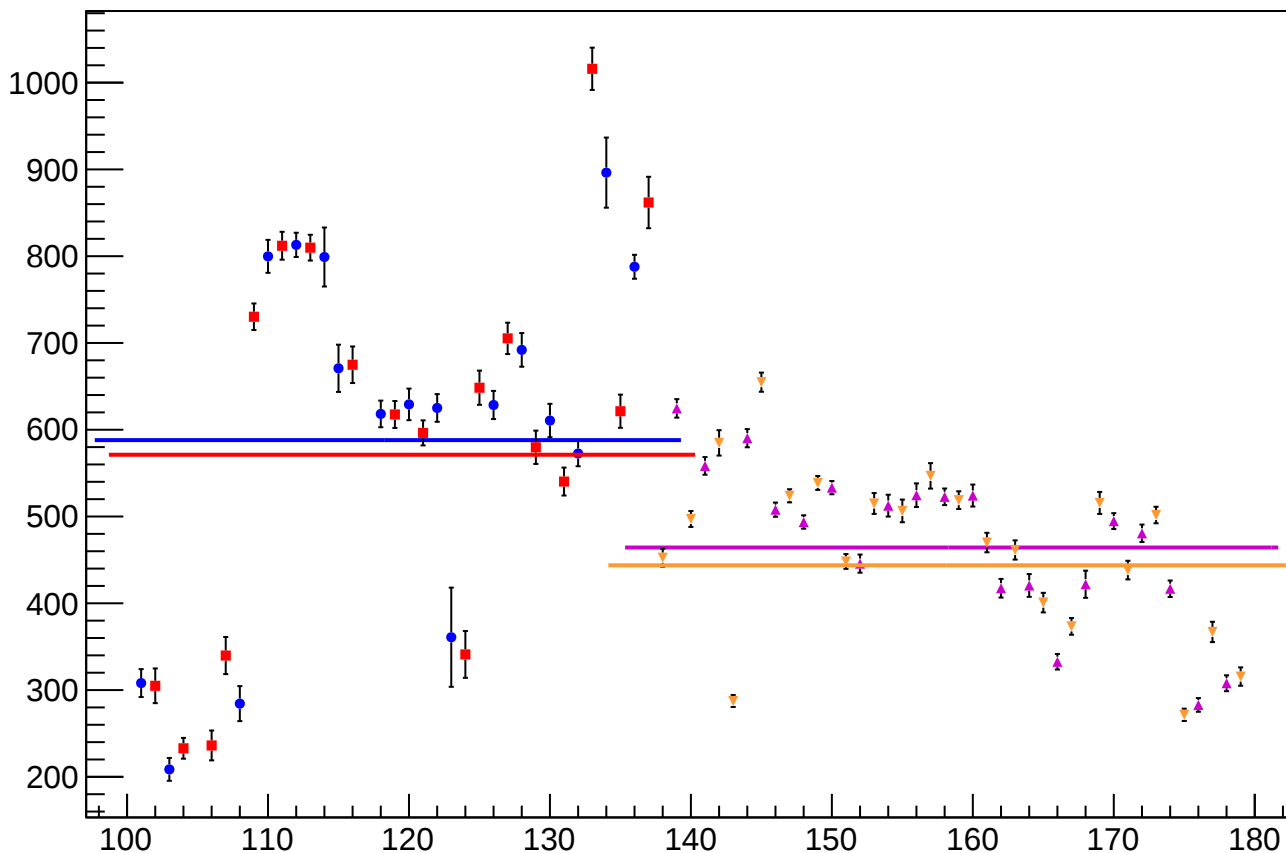
Right:  $-8.982 \pm 1.618$   $\chi^2/\text{NDF}$ : 678.2/34

In:  $-1.548 \pm 1.328$   $\chi^2/\text{NDF}$ : 663.3/36

Out:  $0.195 \pm 1.252$   $\chi^2/\text{NDF}$ : 725.4/39

All:  $-0.625 \pm 0.911$   $\chi^2/\text{NDF}$ : 1389.6/76

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 588.034 $\pm$ 4.329  $\chi^2$ /NDF: 2127.7/16

Left Out: 443.819 $\pm$ 2.106  $\chi^2$ /NDF:2342.3/21

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

Left In: 464.266 $\pm$ 2.201  $\chi^2$ /NDF:1791.1/19

Left: 453.588 $\pm$ 1.522  $\chi^2$ /NDF: 4178.5/41

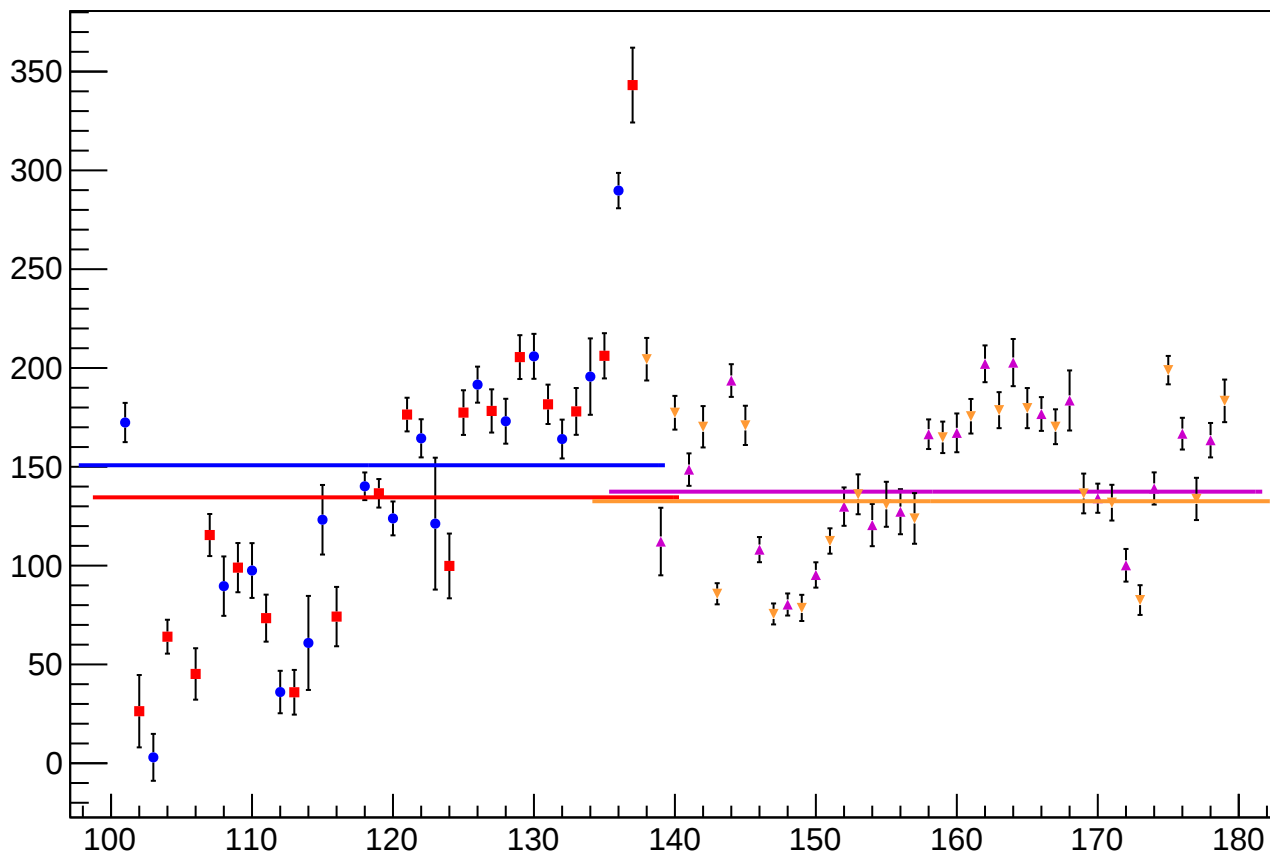
Right: 579.261 $\pm$ 2.996  $\chi^2$ /NDF: 4816.0/34

In: 489.699 $\pm$ 1.962  $\chi^2$ /NDF:4568.3/36

Out: 469.893 $\pm$ 1.878  $\chi^2$ /NDF:5771.7/39

All: 479.361 $\pm$ 1.357  $\chi^2$ /NDF: 10393.2/76

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 150.785 $\pm$ 2.679  $\chi^2$ /NDF: 633.1/16

Left Out: 132.585 $\pm$ 1.760  $\chi^2$ /NDF:626.9/21

Right Out: 134.549 $\pm$ 2.619  $\chi^2$ /NDF: 576.2/17

Left In: 137.423 $\pm$ 1.881  $\chi^2$ /NDF:398.8/19

Left: 134.843 $\pm$ 1.285  $\chi^2$ /NDF: 1029.2/41

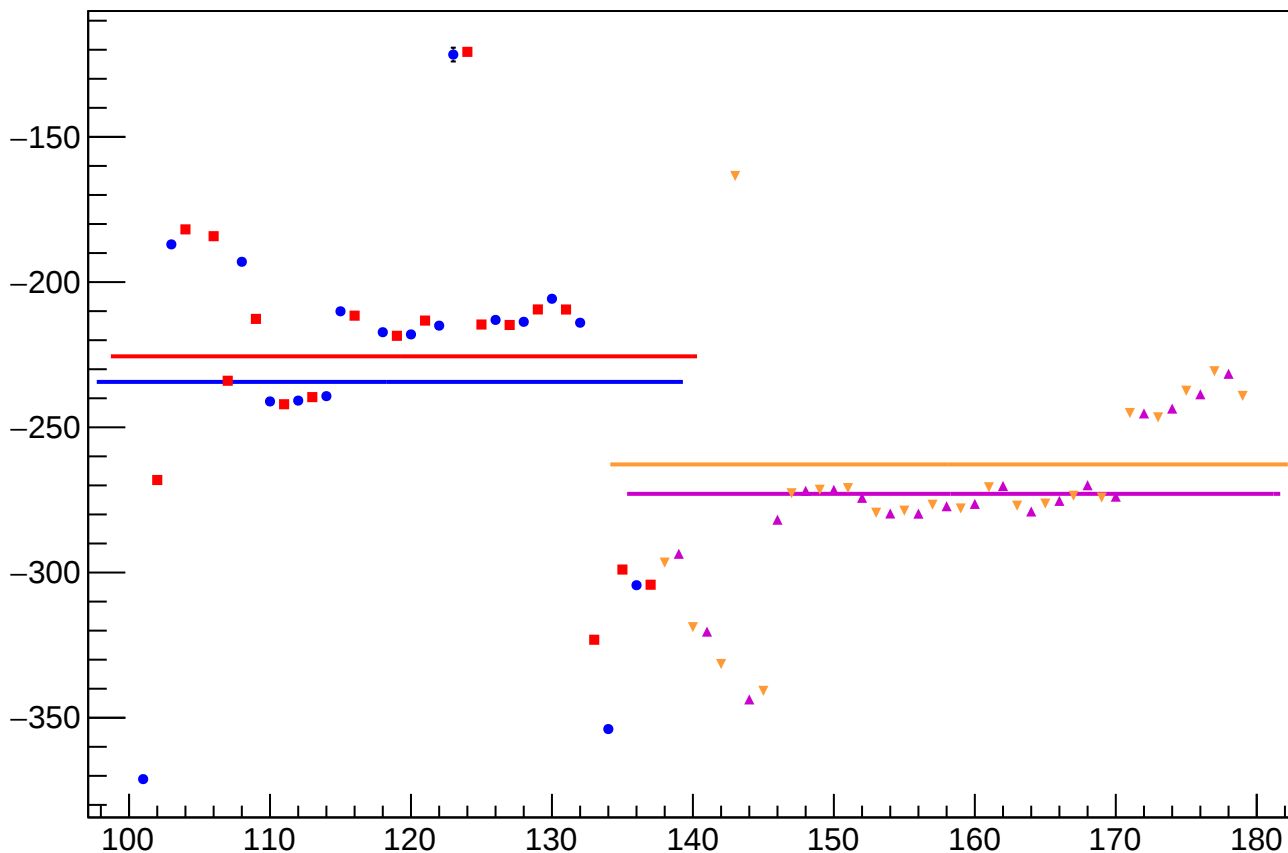
Right: 142.483 $\pm$ 1.873  $\chi^2$ /NDF: 1228.1/34

In: 141.835 $\pm$ 1.540  $\chi^2$ /NDF:1048.6/36

Out: 133.196 $\pm$ 1.461  $\chi^2$ /NDF:1203.5/39

All: 137.289 $\pm$ 1.060  $\chi^2$ /NDF: 2268.7/76

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -234.360+/-0.148  $\chi^2$ /NDF: 145159.1/16

Left Out: -262.777+/-0.085  $\chi^2$ /NDF:227076.8/21

Right Out: -225.561+/-0.142  $\chi^2$ /NDF: 92955.0/17

Left In: -272.902+/-0.088  $\chi^2$ /NDF:73116.1/19

Left: -267.665+/-0.061  $\chi^2$ /NDF: 306996.4/41

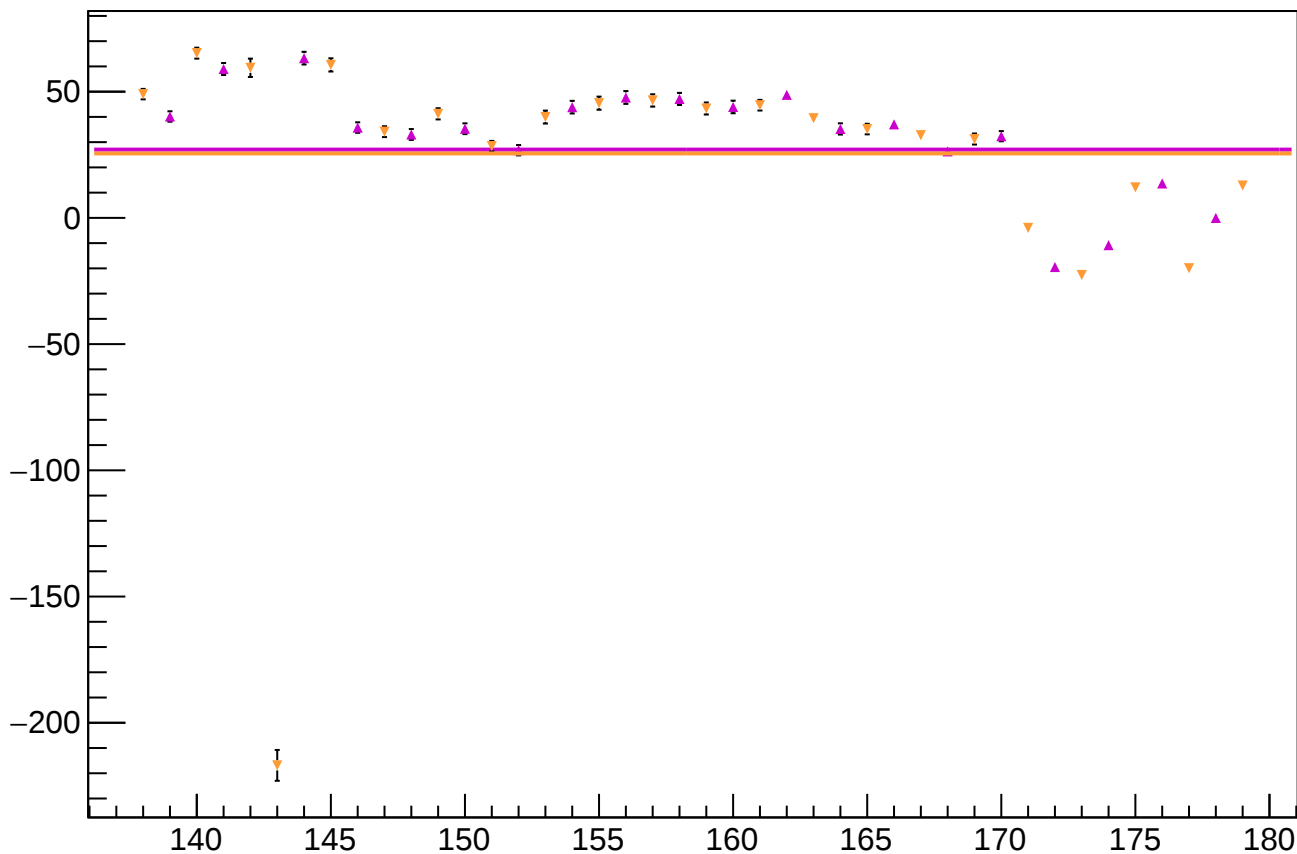
Right: -229.762+/-0.103  $\chi^2$ /NDF: 239949.0/34

In: -262.835+/-0.076  $\chi^2$ /NDF:268056.6/36

Out: -252.902+/-0.073  $\chi^2$ /NDF:370546.2/39

All: -257.684+/-0.053  $\chi^2$ /NDF: 647489.0/76

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: 25.524+/-0.447  $\chi^2/\text{NDF}$ : 4368.5/21

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

Left In: 27.046+/-0.453  $\chi^2/\text{NDF}$ : 2343.0/19

Left: 26.275+/-0.318  $\chi^2/\text{NDF}$ : 6717.2/41

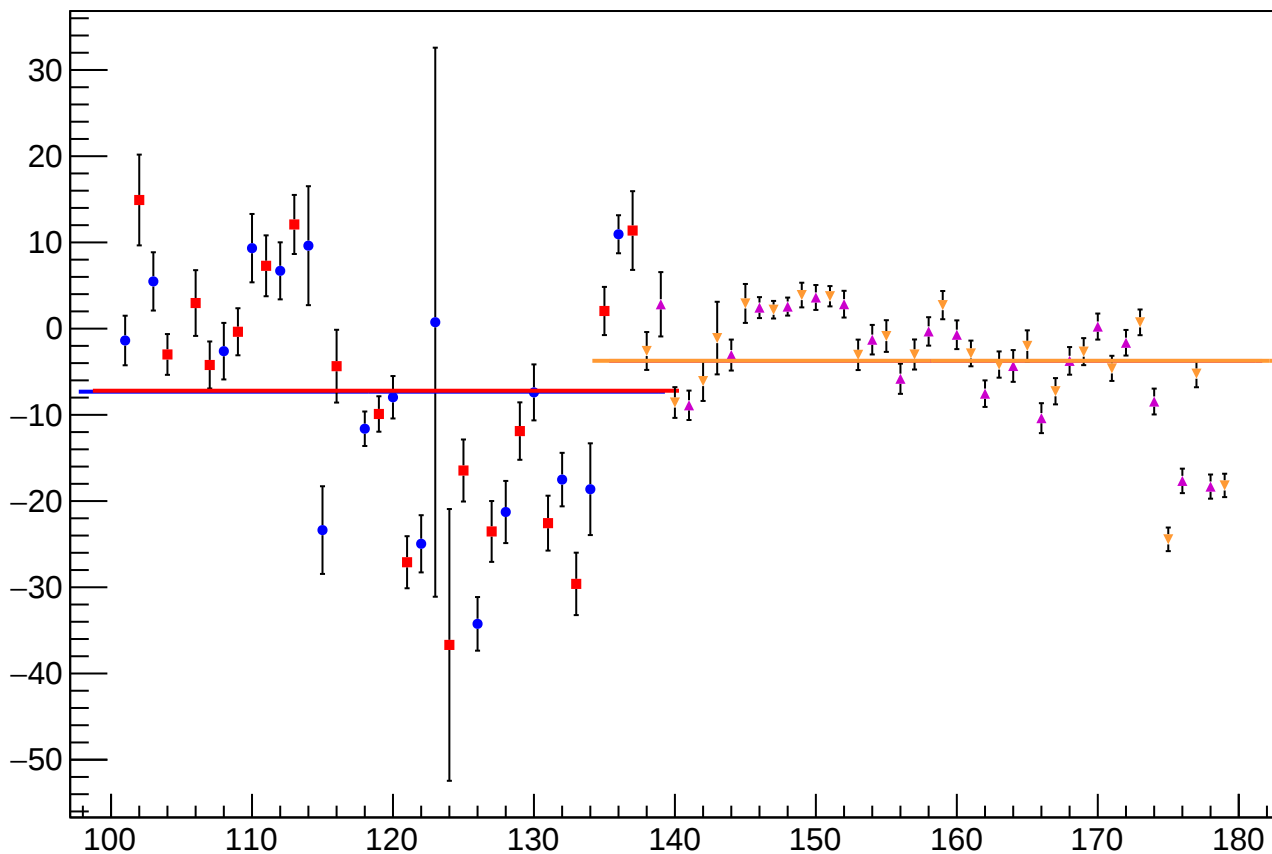
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 27.046+/-0.453  $\chi^2/\text{NDF}$ : 2343.0/19

Out: 25.524+/-0.447  $\chi^2/\text{NDF}$ : 4368.5/21

All: 26.275+/-0.318  $\chi^2/\text{NDF}$ : 6717.2/41

reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.313 \pm 0.780$   $\chi^2/\text{NDF}$ : 279.1/16

Left Out:  $-3.731 \pm 0.336$   $\chi^2/\text{NDF}$ : 498.5/21

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

Left In:  $-3.751 \pm 0.345$   $\chi^2/\text{NDF}$ : 373.6/19

Left:  $-3.741 \pm 0.241$   $\chi^2/\text{NDF}$ : 872.1/41

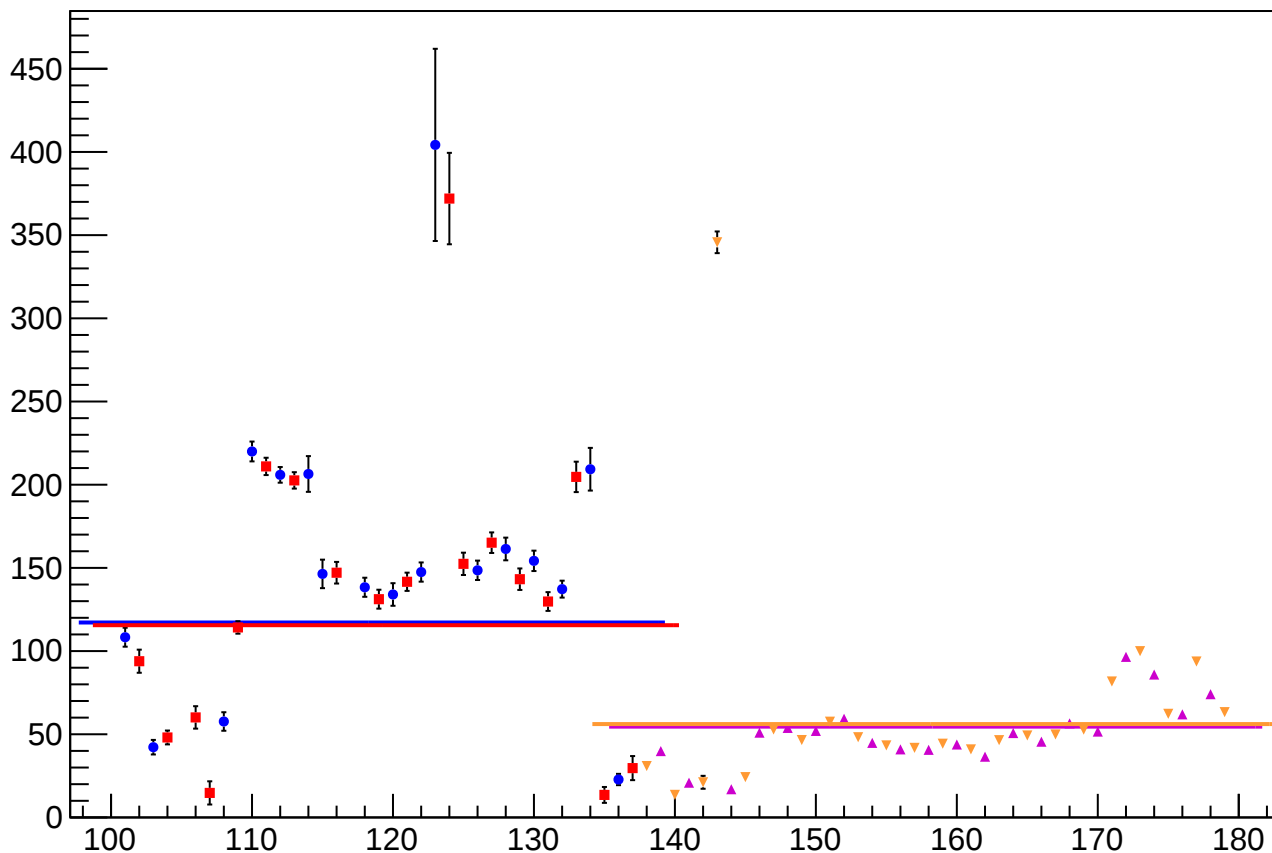
Right:  $-7.256 \pm 0.545$   $\chi^2/\text{NDF}$ : 531.2/34

In:  $-4.335 \pm 0.316$   $\chi^2/\text{NDF}$ : 670.1/36

Out:  $-4.295 \pm 0.307$   $\chi^2/\text{NDF}$ : 768.0/39

All:  $-4.314 \pm 0.220$   $\chi^2/\text{NDF}$ : 1438.1/76

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 117.177 $\pm$ 1.411  $\chi^2$ /NDF: 2159.6/16

Left Out: 56.131 $\pm$ 0.442  $\chi^2$ /NDF:3989.8/21

Right Out: 115.556 $\pm$ 1.363  $\chi^2$ /NDF: 2149.2/17

Left In: 54.592 $\pm$ 0.448  $\chi^2$ /NDF:1595.3/19

Left: 55.373 $\pm$ 0.315  $\chi^2$ /NDF: 5591.1/41

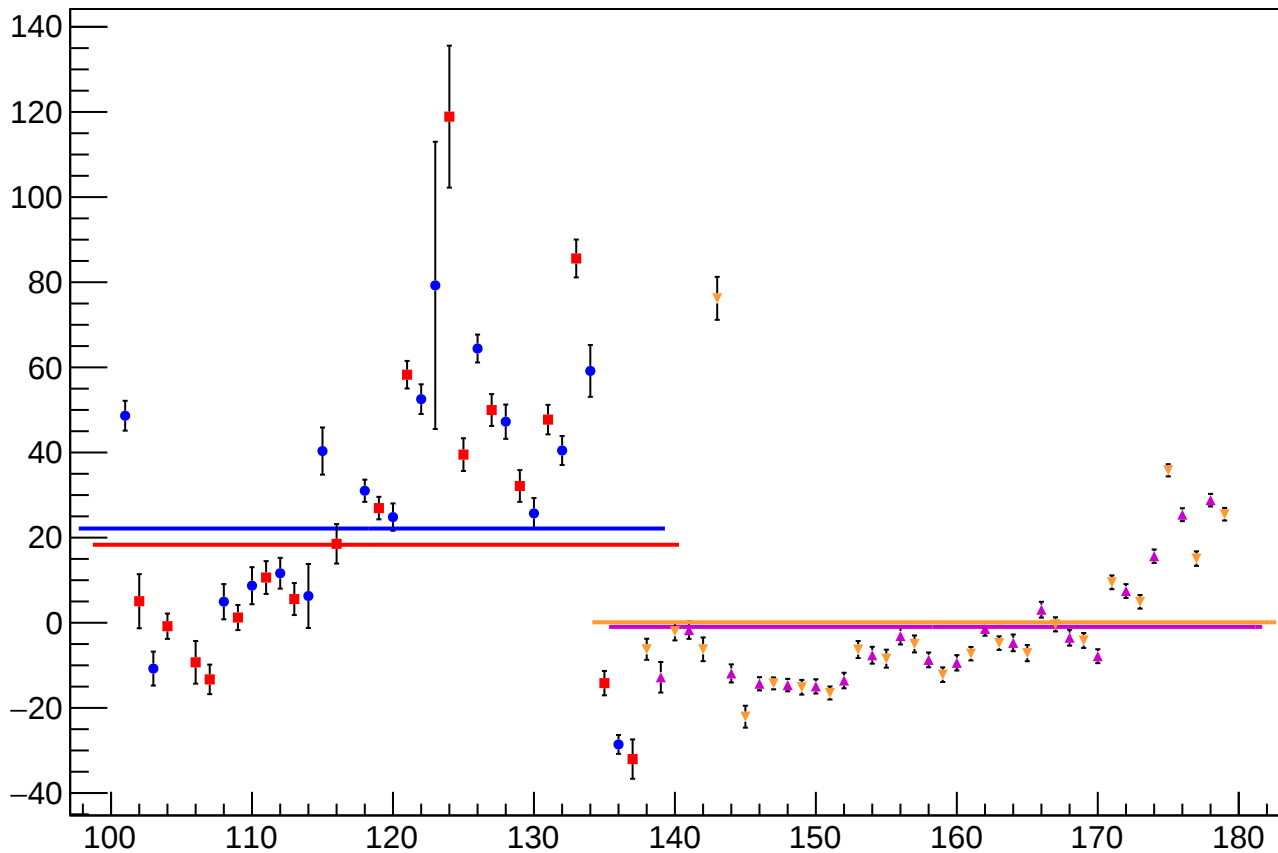
Right: 116.338 $\pm$ 0.981  $\chi^2$ /NDF: 4309.5/34

In: 60.331 $\pm$ 0.427  $\chi^2$ /NDF:5540.9/36

Out: 61.779 $\pm$ 0.420  $\chi^2$ /NDF:7858.7/39

All: 61.067 $\pm$ 0.300  $\chi^2$ /NDF: 13405.5/76

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $22.136 \pm 0.891$   $\chi^2/\text{NDF}: 1064.1/16$

Left Out:  $0.108 \pm 0.383$   $\chi^2/\text{NDF}: 1781.8/21$

Right Out:  $18.331 \pm 0.872$   $\chi^2/\text{NDF}: 1070.4/17$

Left In:  $-0.965 \pm 0.393$   $\chi^2/\text{NDF}: 1241.8/19$

Left:  $-0.414 \pm 0.274$   $\chi^2/\text{NDF}: 3027.4/41$

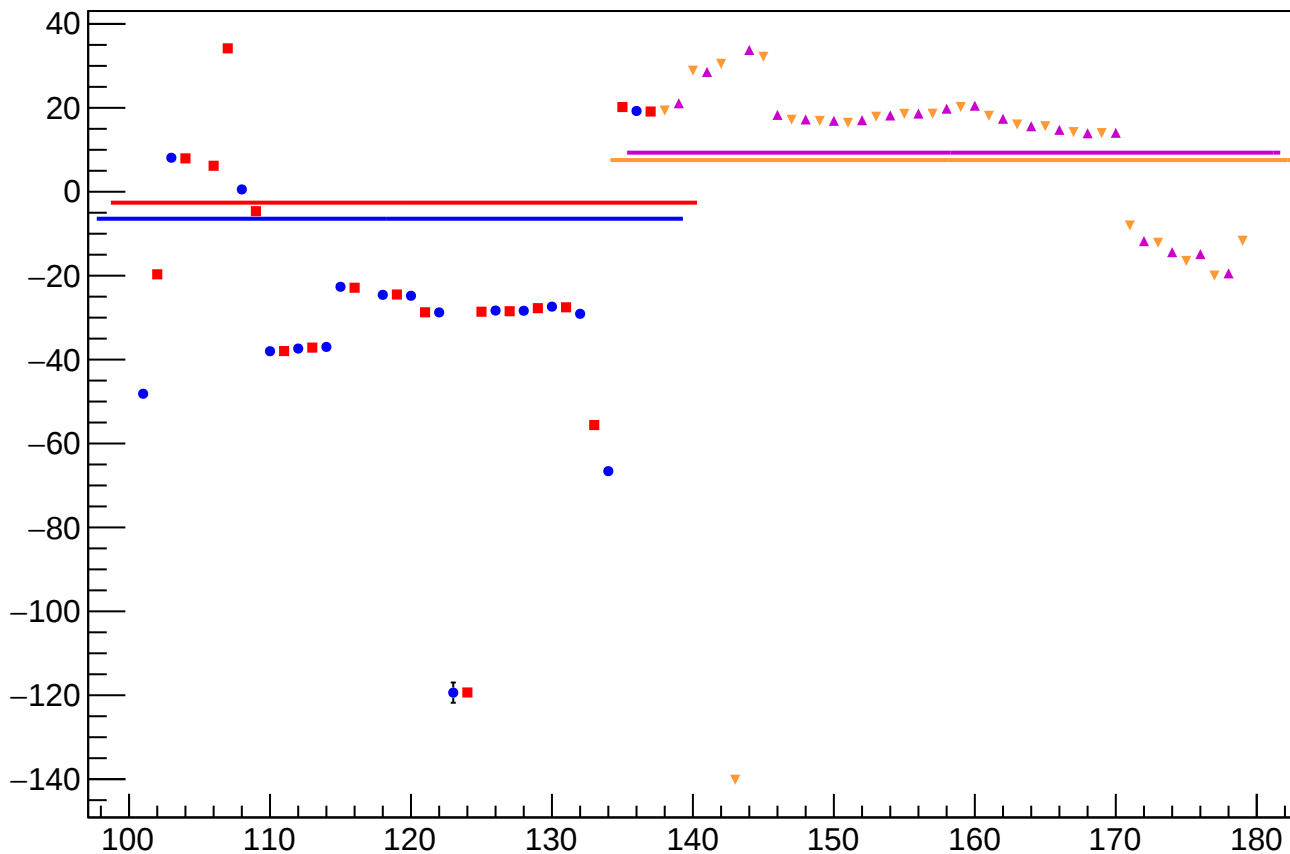
Right:  $20.192 \pm 0.623$   $\chi^2/\text{NDF}: 2143.8/34$

In:  $2.792 \pm 0.359$   $\chi^2/\text{NDF}: 2868.6/36$

Out:  $3.050 \pm 0.350$   $\chi^2/\text{NDF}: 3218.4/39$

All:  $2.924 \pm 0.251$   $\chi^2/\text{NDF}: 6087.2/76$

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-6.428 \pm 0.046$   $\chi^2/\text{NDF}$ : 265170.6/16

Left Out:  $7.544 \pm 0.018$   $\chi^2/\text{NDF}$ : 1093607.6/21

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}$ : 263579.4/17

Left In:  $9.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 739457.3/19

Left:  $8.427 \pm 0.013$   $\chi^2/\text{NDF}$ : 1838091.0/41

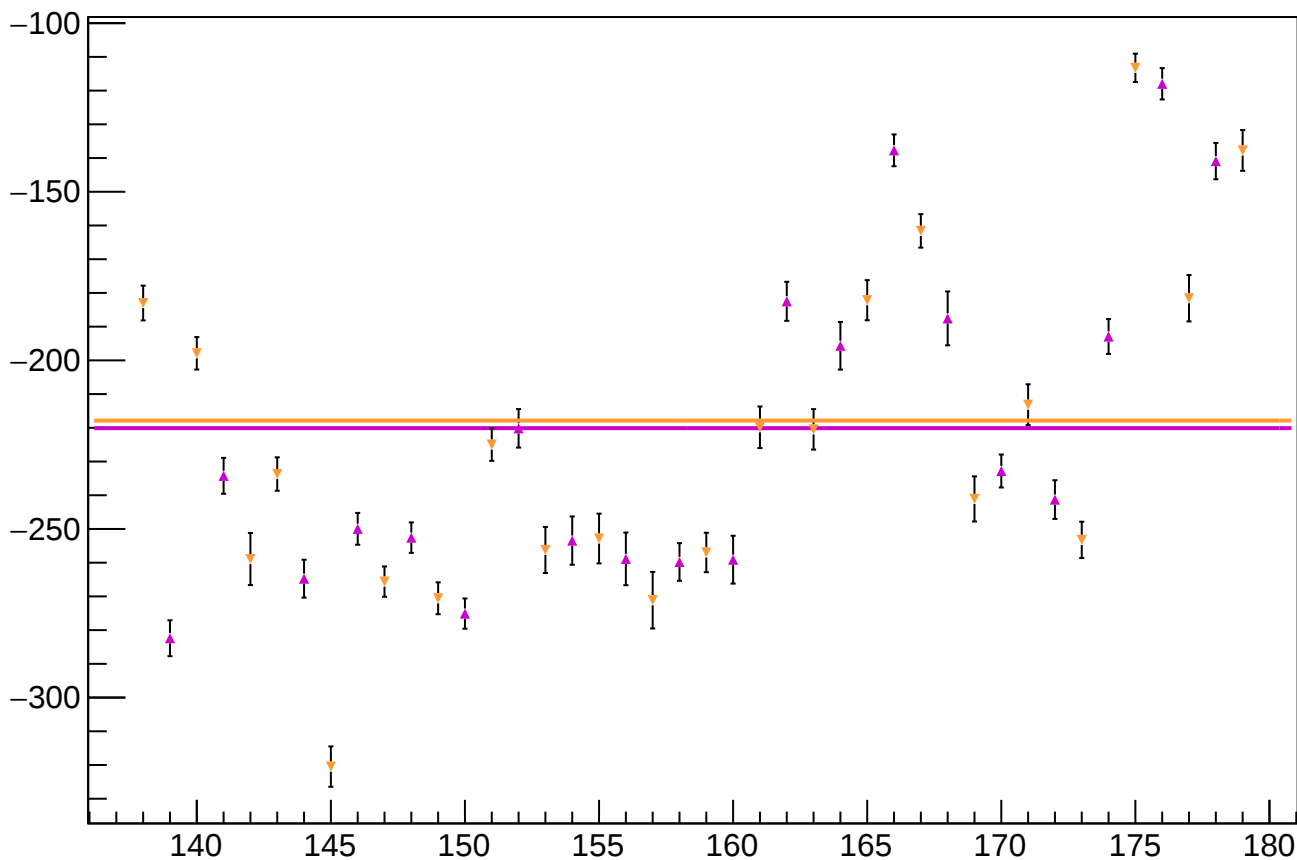
Right:  $-4.494 \pm 0.033$   $\chi^2/\text{NDF}$ : 532217.8/34

In:  $7.292 \pm 0.017$   $\chi^2/\text{NDF}$ : 1105800.1/36

Out:  $6.231 \pm 0.016$   $\chi^2/\text{NDF}$ : 1399918.9/39

All:  $6.758 \pm 0.012$   $\chi^2/\text{NDF}$ : 2507780.4/76

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: -217.848+/-1.196  $\chi^2/\text{NDF}$ :1815.5/21

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

Left In: -220.105+/-1.226  $\chi^2/\text{NDF}$ :1699.6/19

Left: -218.949+/-0.856  $\chi^2/\text{NDF}$ : 3516.9/41

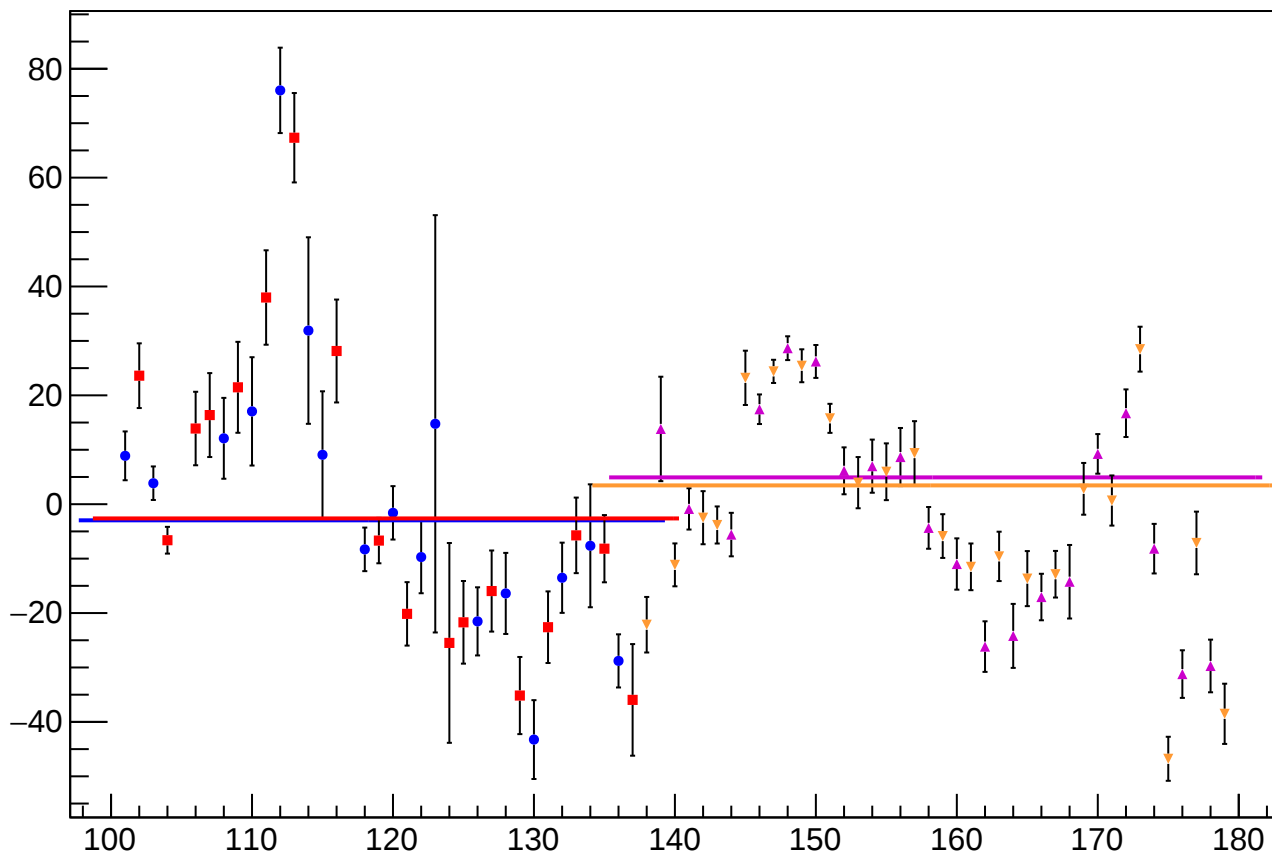
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -220.105+/-1.226  $\chi^2/\text{NDF}$ :1699.6/19

Out: -217.848+/-1.196  $\chi^2/\text{NDF}$ :1815.5/21

All: -218.949+/-0.856  $\chi^2/\text{NDF}$ : 3516.9/41

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.964 \pm 1.452$   $\chi^2/\text{NDF}$ : 203.5/16

Left Out:  $3.453 \pm 0.850$   $\chi^2/\text{NDF}$ : 536.9/21

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

Left In:  $4.924 \pm 0.890$   $\chi^2/\text{NDF}$ : 457.2/19

Left:  $4.155 \pm 0.614$   $\chi^2/\text{NDF}$ : 995.5/41

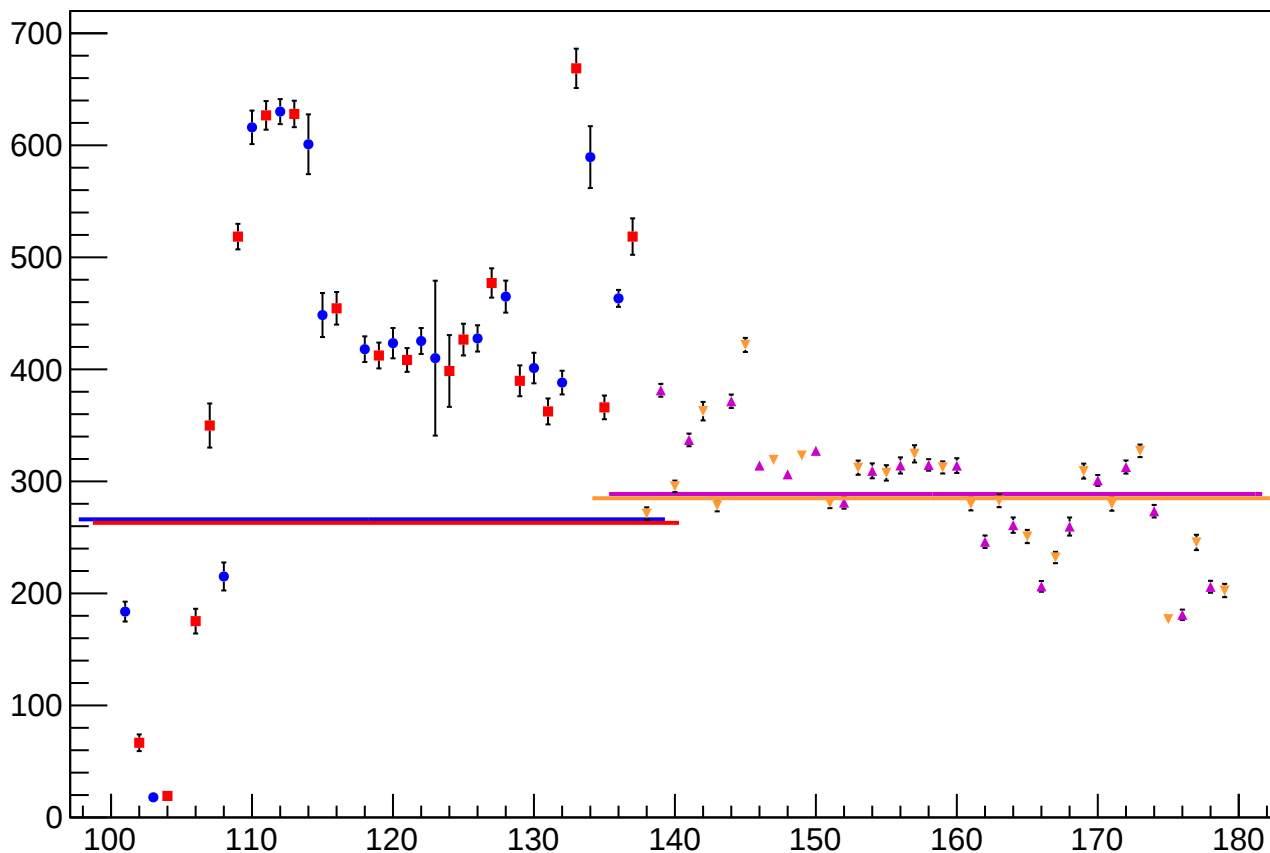
Right:  $-2.783 \pm 1.008$   $\chi^2/\text{NDF}$ : 414.0/34

In:  $2.773 \pm 0.759$   $\chi^2/\text{NDF}$ : 682.2/36

Out:  $1.818 \pm 0.726$   $\chi^2/\text{NDF}$ : 761.1/39

All:  $2.275 \pm 0.525$   $\chi^2/\text{NDF}$ : 1444.1/76

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 284.972 $\pm$ 1.186  $\chi^2$ /NDF:1895.6/21

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

Left In: 288.770 $\pm$ 1.209  $\chi^2$ /NDF:1921.3/19

Left: 286.834 $\pm$ 0.847  $\chi^2$ /NDF: 3821.9/41

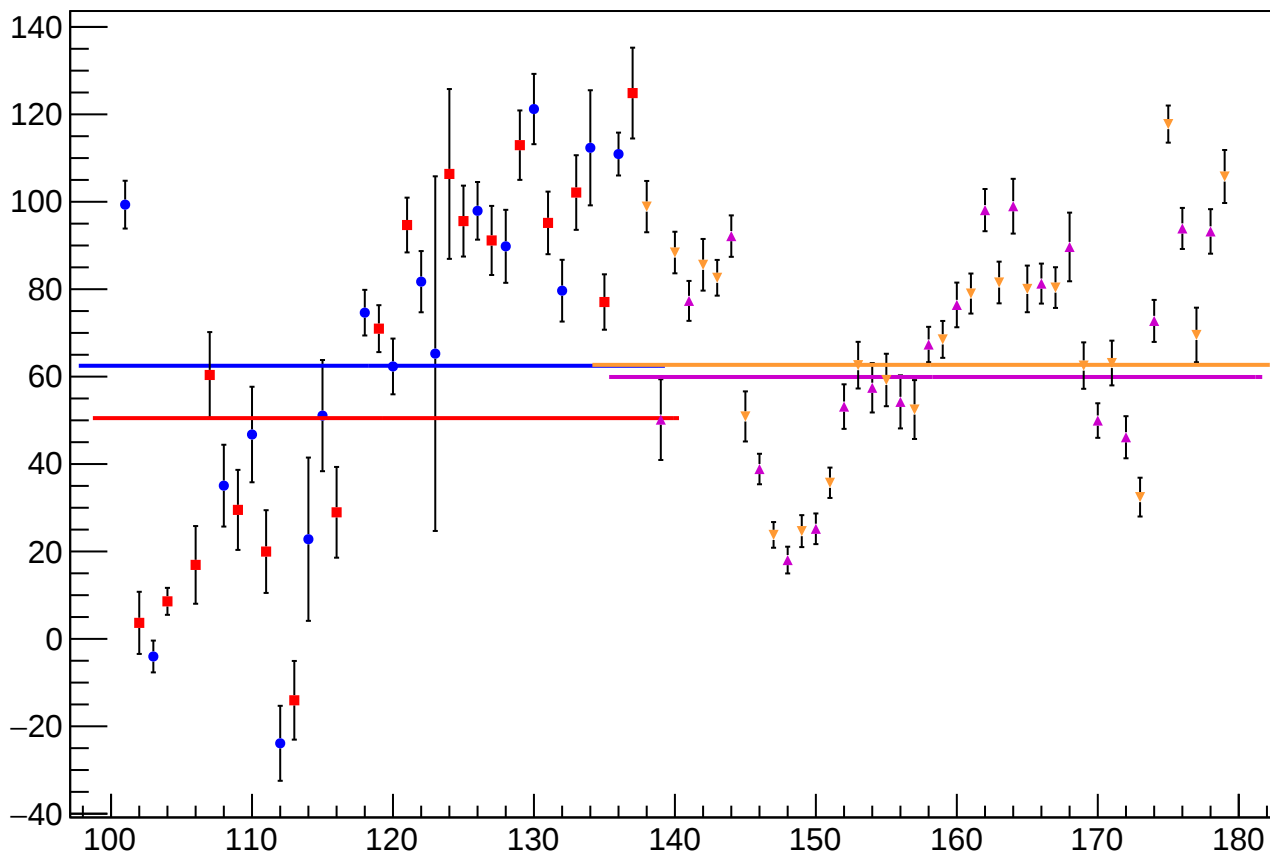
Right: 264.548 $\pm$ 1.749  $\chi^2$ /NDF: 15816.8/34

In: 284.418 $\pm$ 1.087  $\chi^2$ /NDF:9632.7/36

Out: 280.849 $\pm$ 1.069  $\chi^2$ /NDF:10132.0/39

All: 282.603 $\pm$ 0.762  $\chi^2$ /NDF: 19770.3/76

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $62.485 \pm 1.681$   $\chi^2/\text{NDF}: 720.8/16$

Left Out:  $62.692 \pm 0.994$   $\chi^2/\text{NDF}: 778.5/21$

Right Out:  $50.506 \pm 1.644$   $\chi^2/\text{NDF}: 650.6/17$

Left In:  $59.918 \pm 1.033$   $\chi^2/\text{NDF}: 654.7/19$

Left:  $61.358 \pm 0.716$   $\chi^2/\text{NDF}: 1437.0/41$

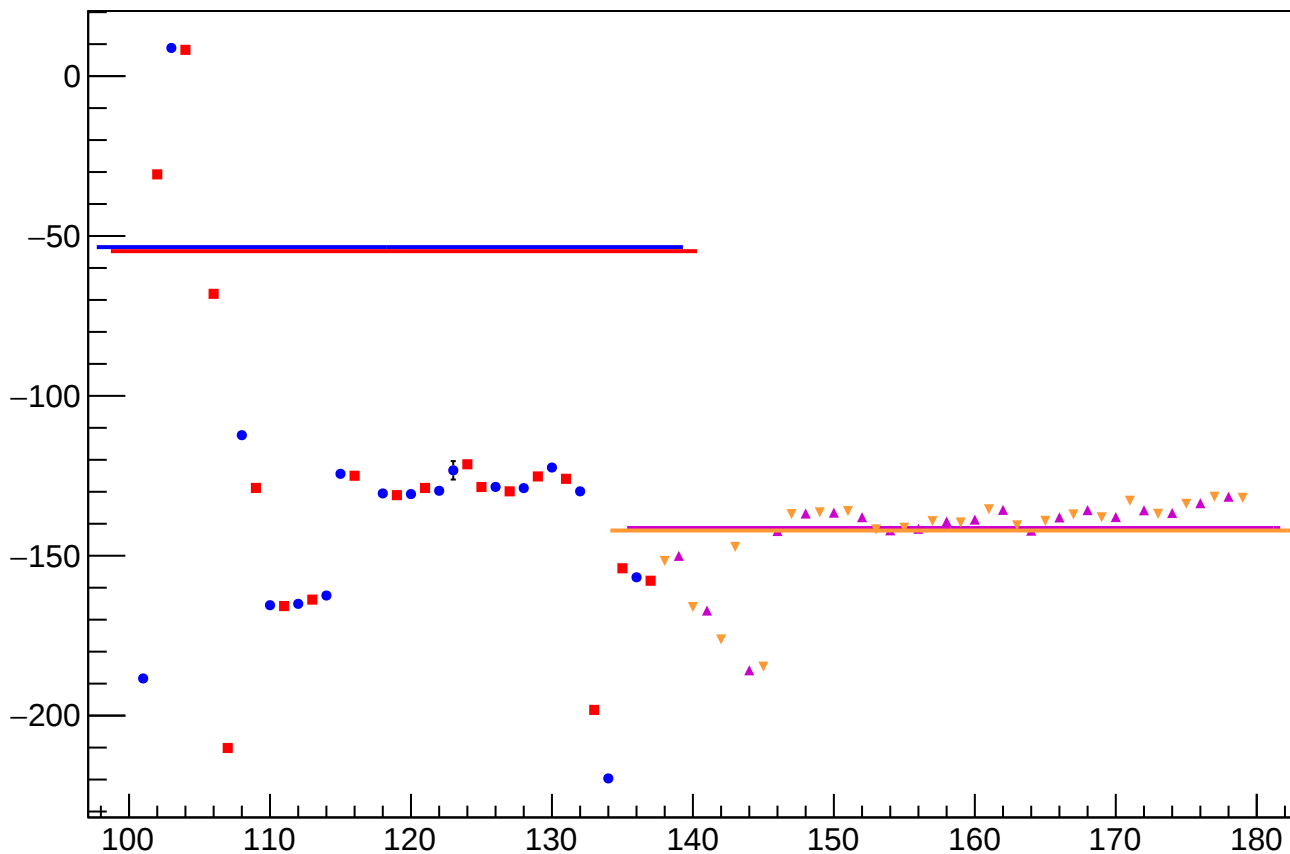
Right:  $56.364 \pm 1.175$   $\chi^2/\text{NDF}: 1397.3/34$

In:  $60.621 \pm 0.880$   $\chi^2/\text{NDF}: 1377.2/36$

Out:  $59.432 \pm 0.851$   $\chi^2/\text{NDF}: 1469.4/39$

All:  $60.006 \pm 0.612$   $\chi^2/\text{NDF}: 2847.5/76$

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-53.481 \pm 0.070$   $\chi^2/\text{NDF}: 1228730.5/16$

Left Out:  $-142.115 \pm 0.048$   $\chi^2/\text{NDF}: 65580.6/21$

Right Out:  $-54.748 \pm 0.072$   $\chi^2/\text{NDF}: 952446.3/17$

Left In:  $-141.335 \pm 0.048$   $\chi^2/\text{NDF}: 50787.2/19$

Left:  $-141.729 \pm 0.034$   $\chi^2/\text{NDF}: 116499.0/41$

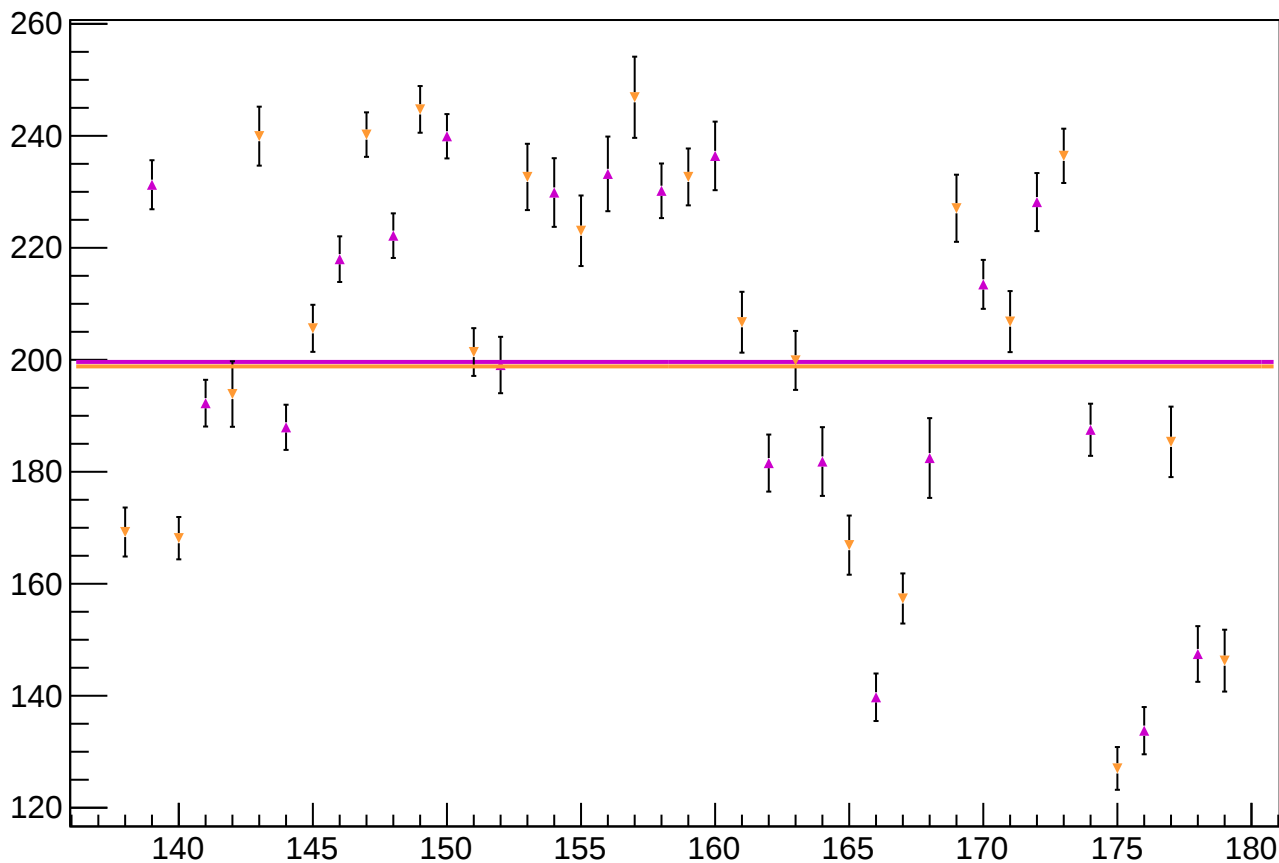
Right:  $-54.098 \pm 0.050$   $\chi^2/\text{NDF}: 2181335.1/34$

In:  $-113.110 \pm 0.040$   $\chi^2/\text{NDF}: 2339252.6/36$

Out:  $-115.395 \pm 0.040$   $\chi^2/\text{NDF}: 2036377.5/39$

All:  $-114.252 \pm 0.028$   $\chi^2/\text{NDF}: 4377272.0/76$

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 198.821+/-1.044  $\chi^2/\text{NDF}$ :1199.2/21

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

Left In: 199.622+/-1.061  $\chi^2/\text{NDF}$ :971.6/19

Left: 199.215+/-0.744  $\chi^2/\text{NDF}$ : 2171.1/41

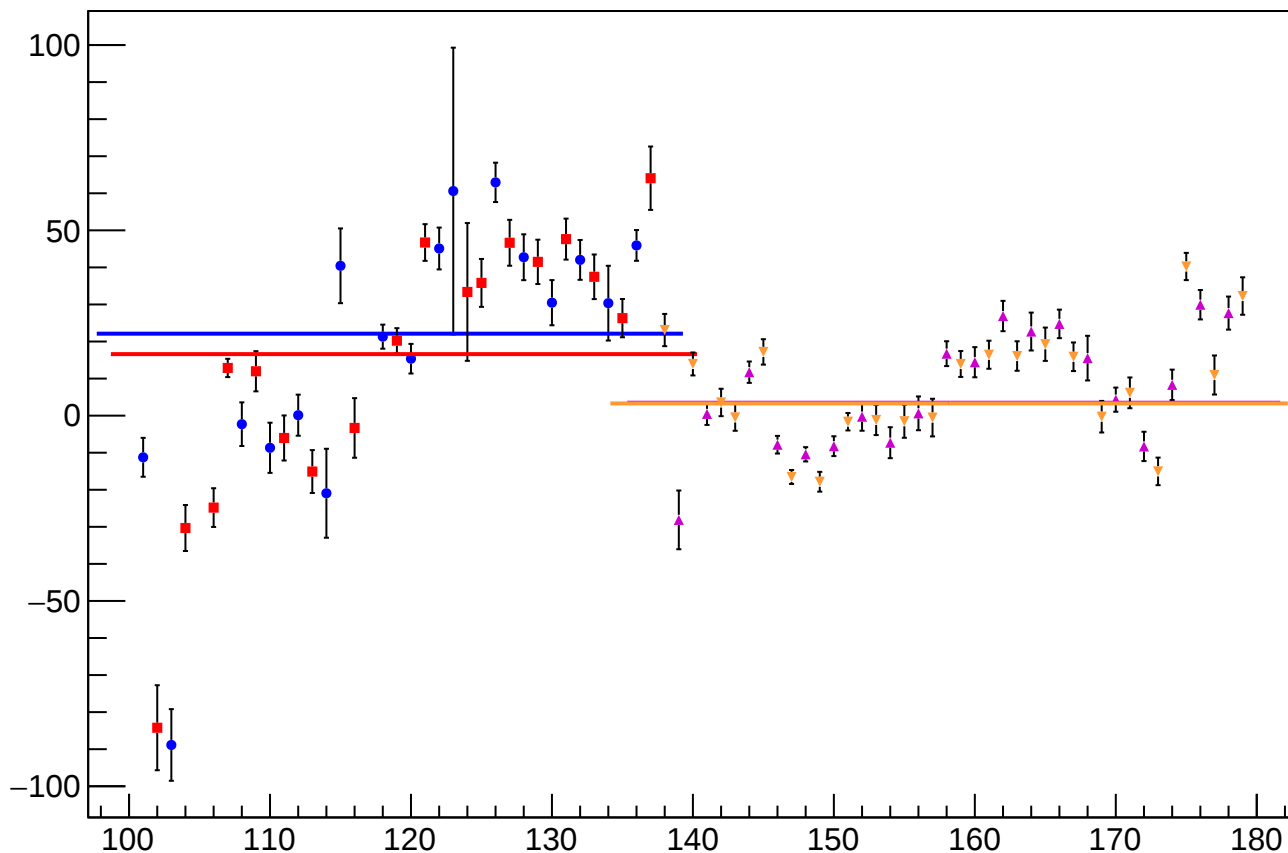
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 199.622+/-1.061  $\chi^2/\text{NDF}$ :971.6/19

Out: 198.821+/-1.044  $\chi^2/\text{NDF}$ :1199.2/21

All: 199.215+/-0.744  $\chi^2/\text{NDF}$ : 2171.1/41

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 22.119+/-1.376  $\chi^2$ /NDF: 382.0/16

Left Out: 3.293+/-0.743  $\chi^2$ /NDF:447.6/21

Right Out: 16.602+/-1.229  $\chi^2$ /NDF: 416.8/17

Left In: 3.483+/-0.771  $\chi^2$ /NDF:315.3/19

Left: 3.385+/-0.535  $\chi^2$ /NDF: 762.9/41

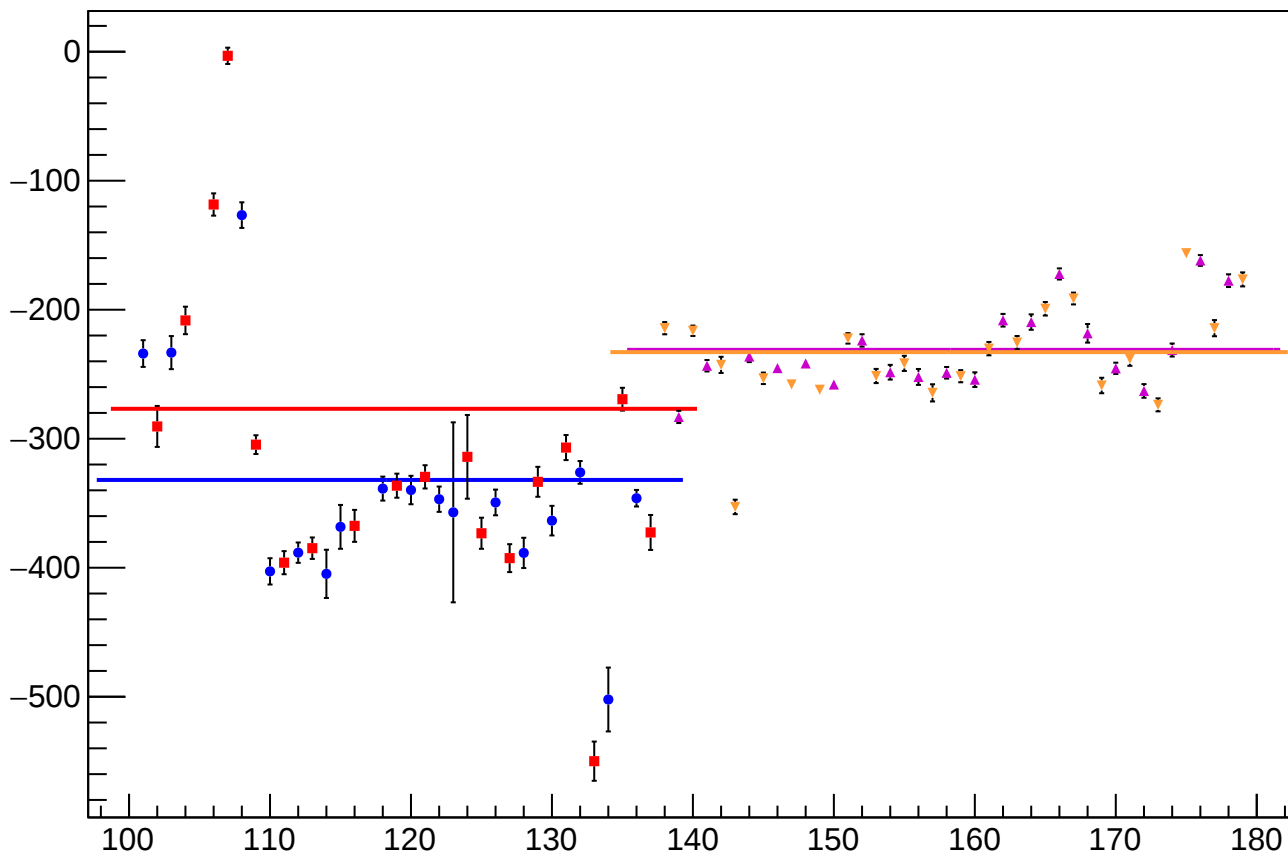
Right: 19.049+/-0.917  $\chi^2$ /NDF: 807.7/34

In: 7.932+/-0.673  $\chi^2$ /NDF:836.8/36

Out: 6.858+/-0.636  $\chi^2$ /NDF:950.2/39

All: 7.365+/-0.462  $\chi^2$ /NDF: 1788.4/76

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-331.952 \pm 2.567$   $\chi^2/\text{NDF}$ : 785.6/16

Left Out:  $-232.867 \pm 1.037$   $\chi^2/\text{NDF}$ : 1403.4/21

Right Out:  $-276.804 \pm 2.329$   $\chi^2/\text{NDF}$ : 3330.4/17

Left In:  $-231.100 \pm 1.050$   $\chi^2/\text{NDF}$ : 922.3/19

Left:  $-231.994 \pm 0.738$   $\chi^2/\text{NDF}$ : 2327.2/41

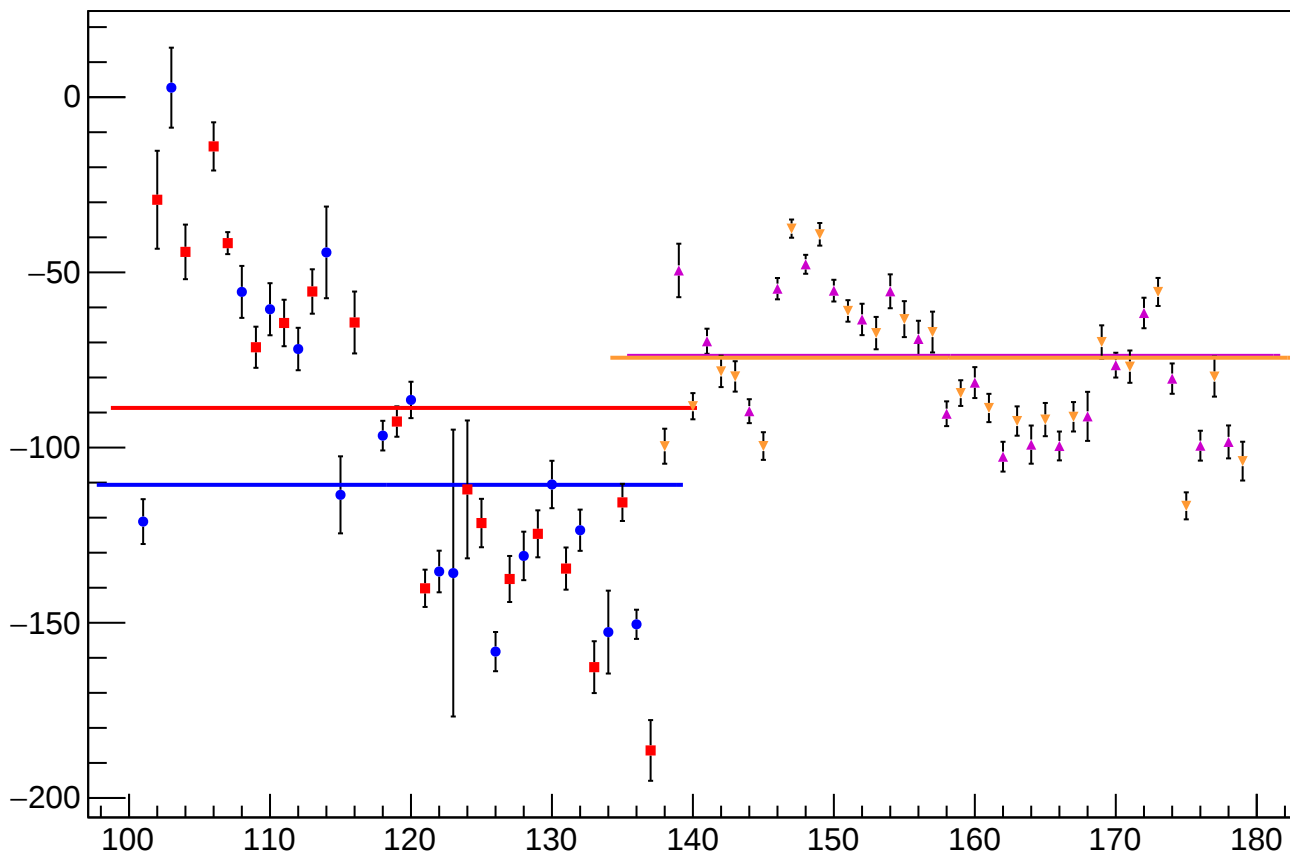
Right:  $-301.706 \pm 1.725$   $\chi^2/\text{NDF}$ : 4369.1/34

In:  $-245.546 \pm 0.972$   $\chi^2/\text{NDF}$ : 3030.0/36

Out:  $-240.129 \pm 0.947$   $\chi^2/\text{NDF}$ : 5030.8/39

All:  $-242.768 \pm 0.678$   $\chi^2/\text{NDF}$ : 8076.8/76

reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-110.633 \pm 1.581$   $\chi^2/\text{NDF}$ : 508.9/16

Left Out:  $-74.358 \pm 0.870$   $\chi^2/\text{NDF}$ : 671.6/21

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}$ : 964.0/17

Left In:  $-73.822 \pm 0.896$   $\chi^2/\text{NDF}$ : 434.6/19

Left:  $-74.098 \pm 0.624$   $\chi^2/\text{NDF}$ : 1106.3/41

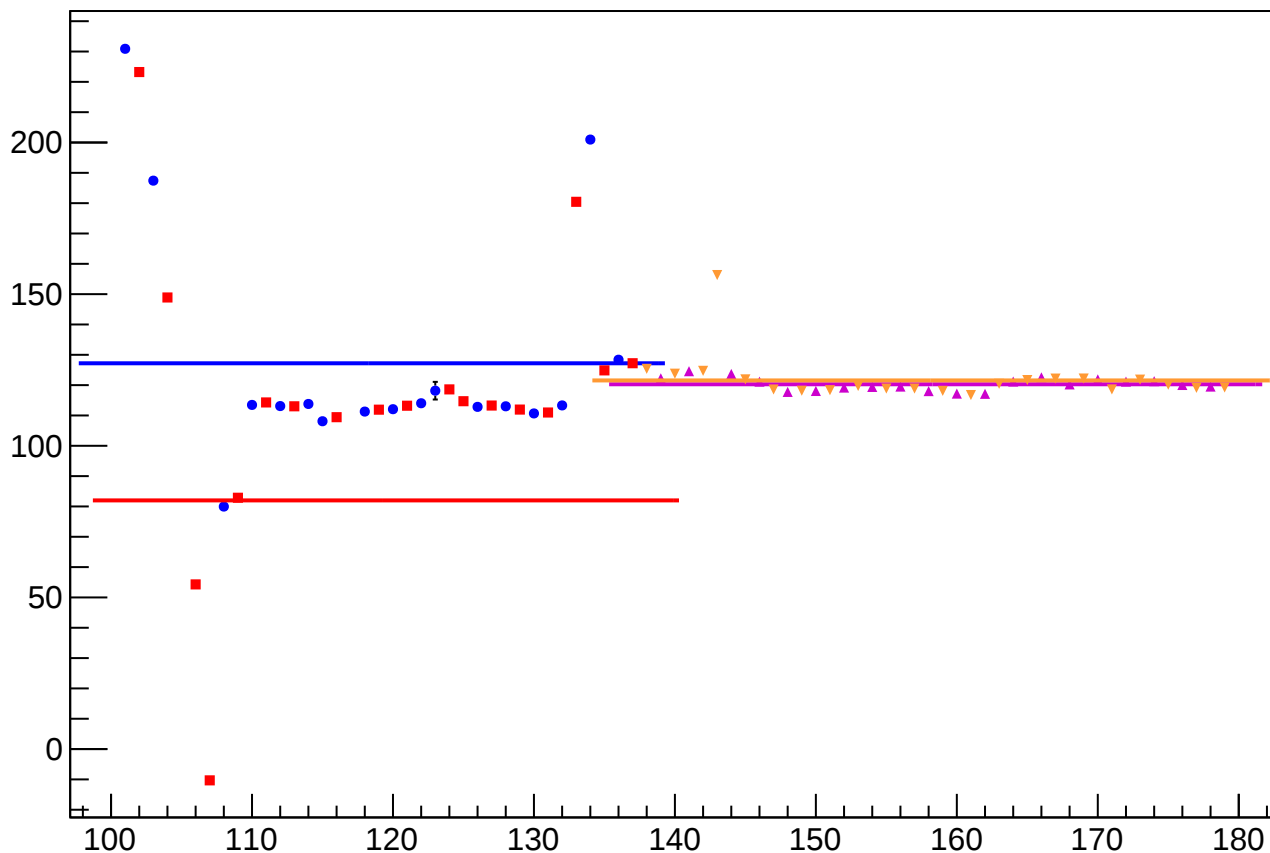
Right:  $-98.593 \pm 1.062$   $\chi^2/\text{NDF}$ : 1578.5/34

In:  $-82.768 \pm 0.779$   $\chi^2/\text{NDF}$ : 1353.7/36

Out:  $-78.209 \pm 0.744$   $\chi^2/\text{NDF}$ : 1708.4/39

All:  $-80.382 \pm 0.538$   $\chi^2/\text{NDF}$ : 3080.1/76

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 127.205 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 188026.3/16

Left Out: 121.552 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 27305.2/21

Right Out: 81.994 $\pm$ 0.075  $\chi^2/\text{NDF}$ : 749824.5/17

Left In: 120.288 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 2571.8/19

Left: 120.922 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 30332.7/41

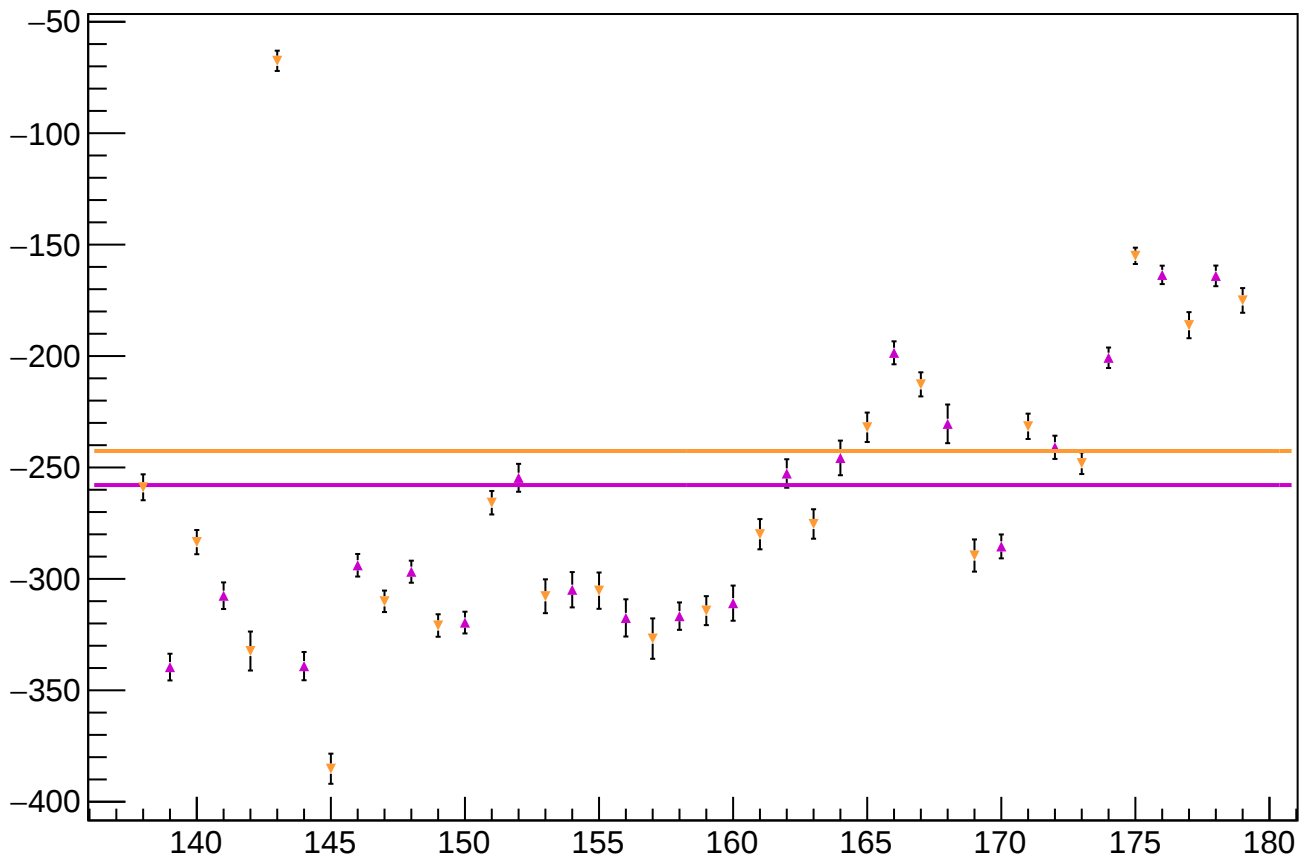
Right: 100.877 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 1087676.4/34

In: 121.543 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 195527.6/36

Out: 112.268 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 987309.2/39

All: 116.732 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 1213791.9/76

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -242.609+/-1.228  $\chi^2/\text{NDF}$ :3840.3/21

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

Left In: -257.888+/-1.273  $\chi^2/\text{NDF}$ :2182.8/19

Left: -249.971+/-0.884  $\chi^2/\text{NDF}$ : 6097.7/41

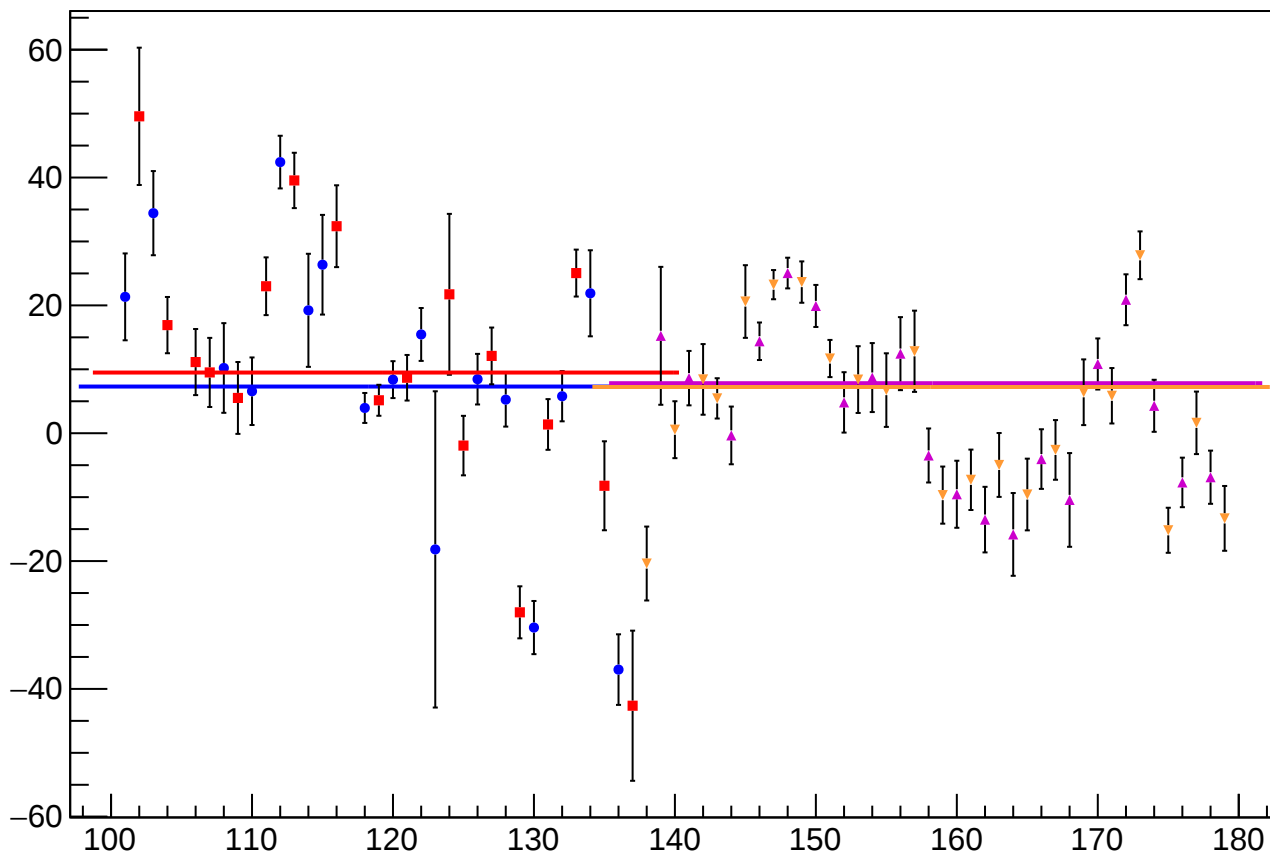
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -257.888+/-1.273  $\chi^2/\text{NDF}$ :2182.8/19

Out: -242.609+/-1.228  $\chi^2/\text{NDF}$ :3840.3/21

All: -249.971+/-0.884  $\chi^2/\text{NDF}$ : 6097.7/41

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.303 $\pm$ 1.086  $\chi^2$ /NDF: 260.6/16

Left Out: 7.233 $\pm$ 0.884  $\chi^2$ /NDF:240.9/21

Right Out: 9.493 $\pm$ 1.073  $\chi^2$ /NDF: 231.1/17

Left In: 7.827 $\pm$ 0.939  $\chi^2$ /NDF:177.0/19

Left: 7.512 $\pm$ 0.644  $\chi^2$ /NDF: 418.1/41

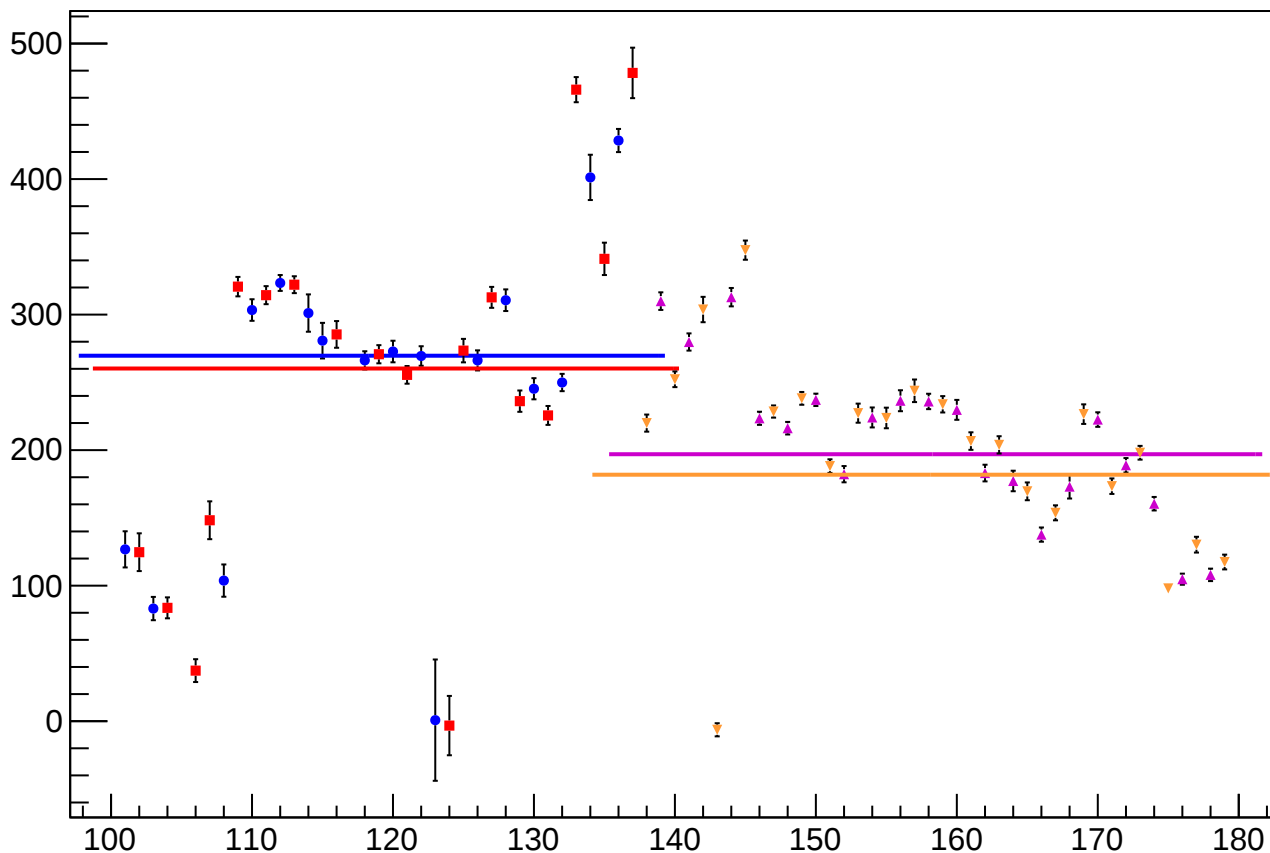
Right: 8.410 $\pm$ 0.763  $\chi^2$ /NDF: 493.8/34

In: 7.602 $\pm$ 0.710  $\chi^2$ /NDF:437.8/36

Out: 8.147 $\pm$ 0.682  $\chi^2$ /NDF:474.7/39

All: 7.886 $\pm$ 0.492  $\chi^2$ /NDF: 912.7/76

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 269.664 $\pm$ 2.076  $\chi^2$ /NDF: 1376.6/16

Left Out: 181.864 $\pm$ 1.219  $\chi^2$ /NDF: 3709.0/21

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

Left In: 196.982 $\pm$ 1.260  $\chi^2$ /NDF: 2110.7/19

Left: 189.177 $\pm$ 0.876  $\chi^2$ /NDF: 5894.1/41

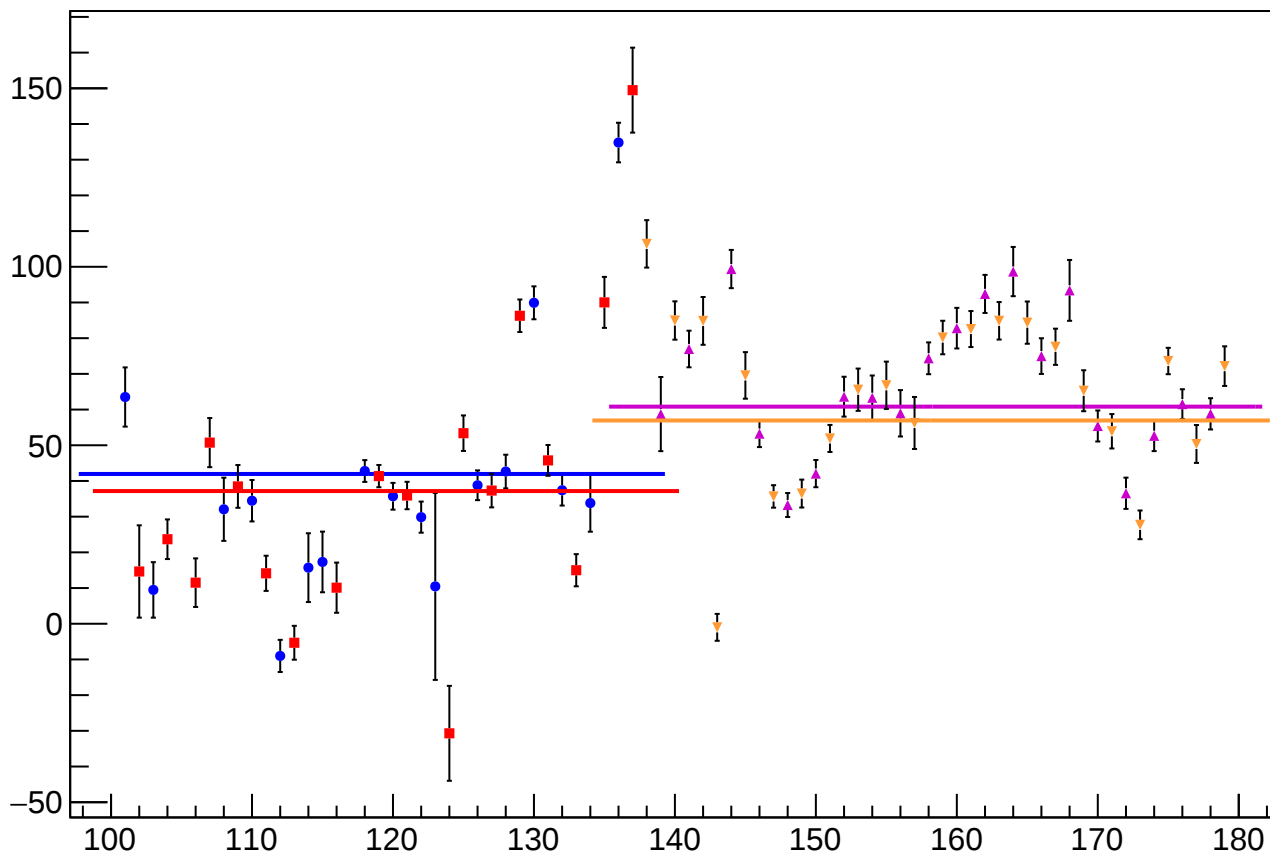
Right: 264.719 $\pm$ 1.432  $\chi^2$ /NDF: 3915.4/34

In: 216.538 $\pm$ 1.077  $\chi^2$ /NDF: 4383.2/36

Out: 203.428 $\pm$ 1.038  $\chi^2$ /NDF: 7373.7/39

All: 209.743 $\pm$ 0.747  $\chi^2$ /NDF: 11833.7/76

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 41.959 $\pm$ 1.258  $\chi^2/\text{NDF}$ : 574.2/16

Left Out: 56.948 $\pm$ 1.029  $\chi^2/\text{NDF}$ :620.6/21

Right Out: 37.171 $\pm$ 1.236  $\chi^2/\text{NDF}$ : 470.9/17

Left In: 60.824 $\pm$ 1.083  $\chi^2/\text{NDF}$ :306.0/19

Left: 58.787 $\pm$ 0.746  $\chi^2/\text{NDF}$ : 933.3/41

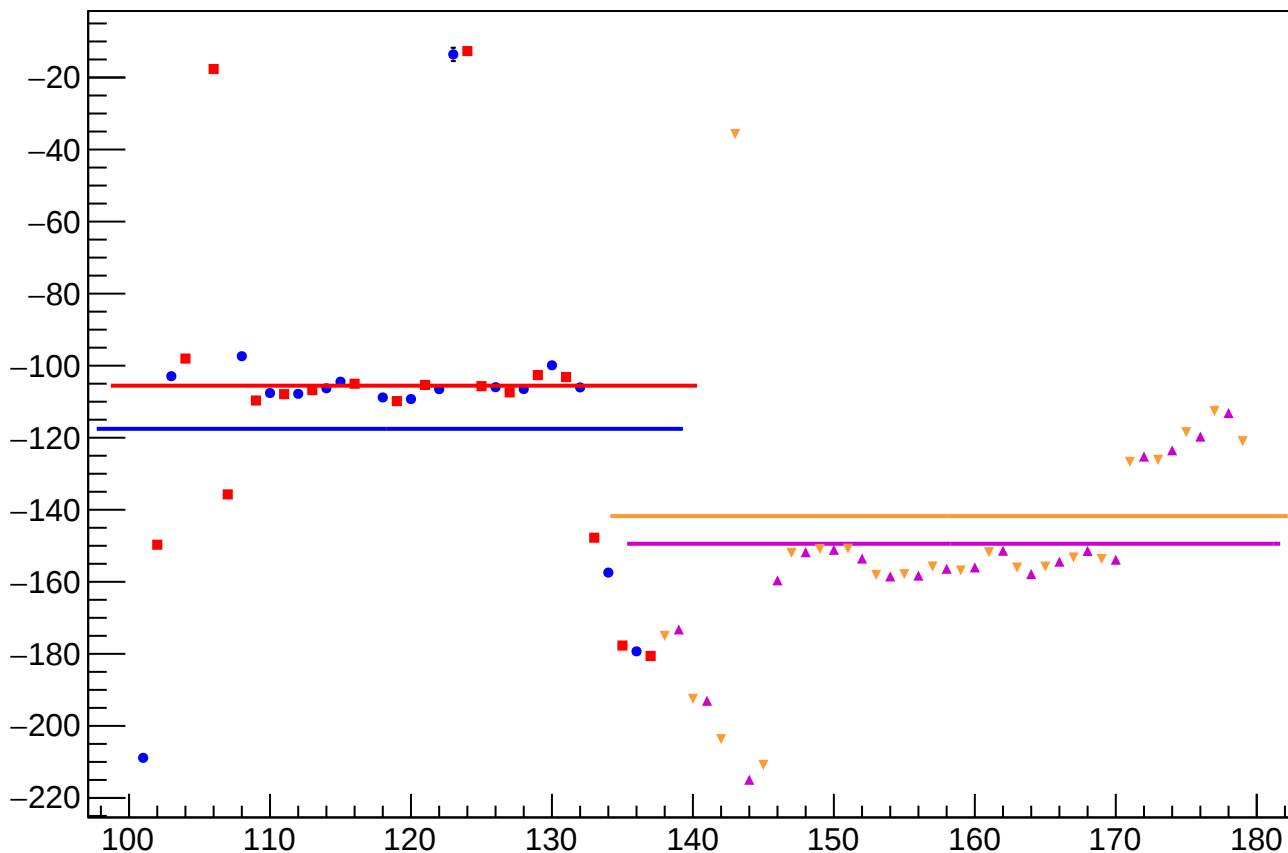
Right: 39.523 $\pm$ 0.882  $\chi^2/\text{NDF}$ : 1052.5/34

In: 52.794 $\pm$ 0.821  $\chi^2/\text{NDF}$ :1009.3/36

Out: 48.852 $\pm$ 0.791  $\chi^2/\text{NDF}$ :1242.7/39

All: 50.749 $\pm$ 0.570  $\chi^2/\text{NDF}$ : 2263.9/76

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-117.533 \pm 0.078$   $\chi^2/\text{NDF}$ : 142039.8/16

Left Out:  $-141.745 \pm 0.049$   $\chi^2/\text{NDF}$ : 528365.1/21

Right Out:  $-105.555 \pm 0.073$   $\chi^2/\text{NDF}$ : 317428.5/17

Left In:  $-149.434 \pm 0.051$   $\chi^2/\text{NDF}$ : 187256.3/19

Left:  $-145.503 \pm 0.035$   $\chi^2/\text{NDF}$ : 727449.8/41

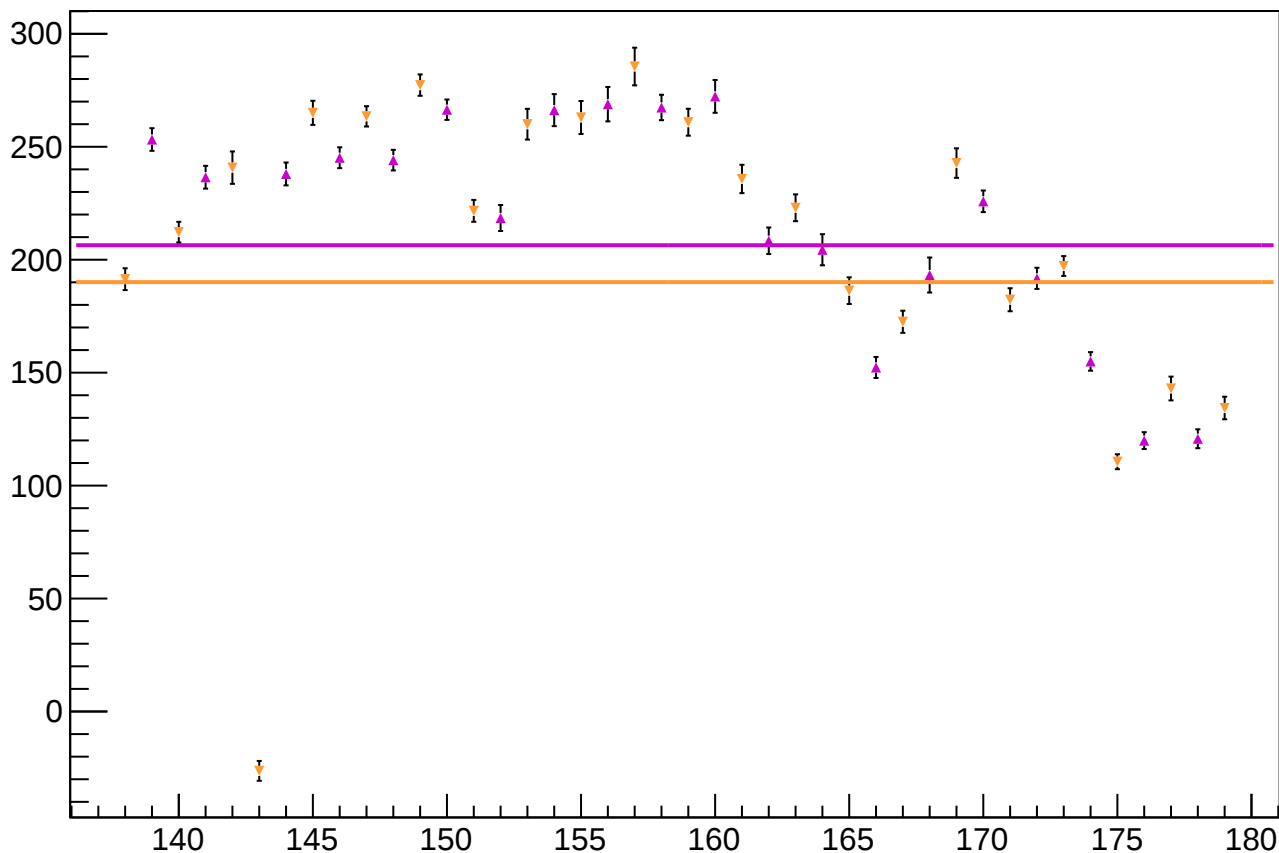
Right:  $-111.128 \pm 0.053$   $\chi^2/\text{NDF}$ : 472040.3/34

In:  $-140.019 \pm 0.042$   $\chi^2/\text{NDF}$ : 446821.3/36

Out:  $-130.342 \pm 0.041$   $\chi^2/\text{NDF}$ : 1014720.2/39

All:  $-135.002 \pm 0.029$   $\chi^2/\text{NDF}$ : 1488491.5/76

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: 190.087+/-1.103  $\chi^2/\text{NDF}$ :4768.1/21

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

Left In: 206.407+/-1.139  $\chi^2/\text{NDF}$ :2097.9/19

Left: 197.985+/-0.793  $\chi^2/\text{NDF}$ : 6971.9/41

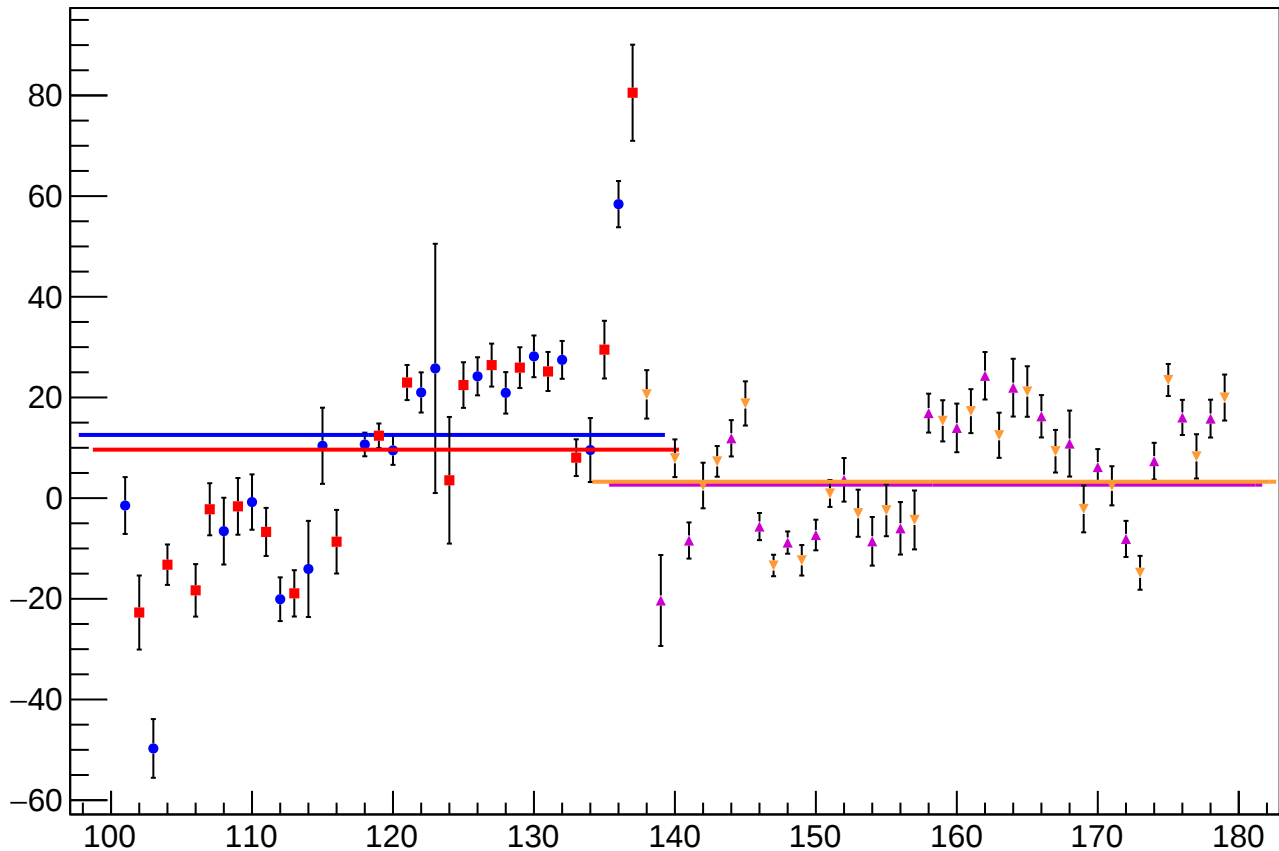
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 206.407+/-1.139  $\chi^2/\text{NDF}$ :2097.9/19

Out: 190.087+/-1.103  $\chi^2/\text{NDF}$ :4768.1/21

All: 197.985+/-0.793  $\chi^2/\text{NDF}$ : 6971.9/41

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.559+/-1.057  $\chi^2/\text{NDF}$ : 348.6/16

Left Out: 3.261+/-0.801  $\chi^2/\text{NDF}$ : 245.1/21

Right Out: 9.631+/-1.049  $\chi^2/\text{NDF}$ : 287.5/17

Left In: 2.675+/-0.845  $\chi^2/\text{NDF}$ : 179.9/19

Left: 2.984+/-0.581  $\chi^2/\text{NDF}$ : 425.3/41

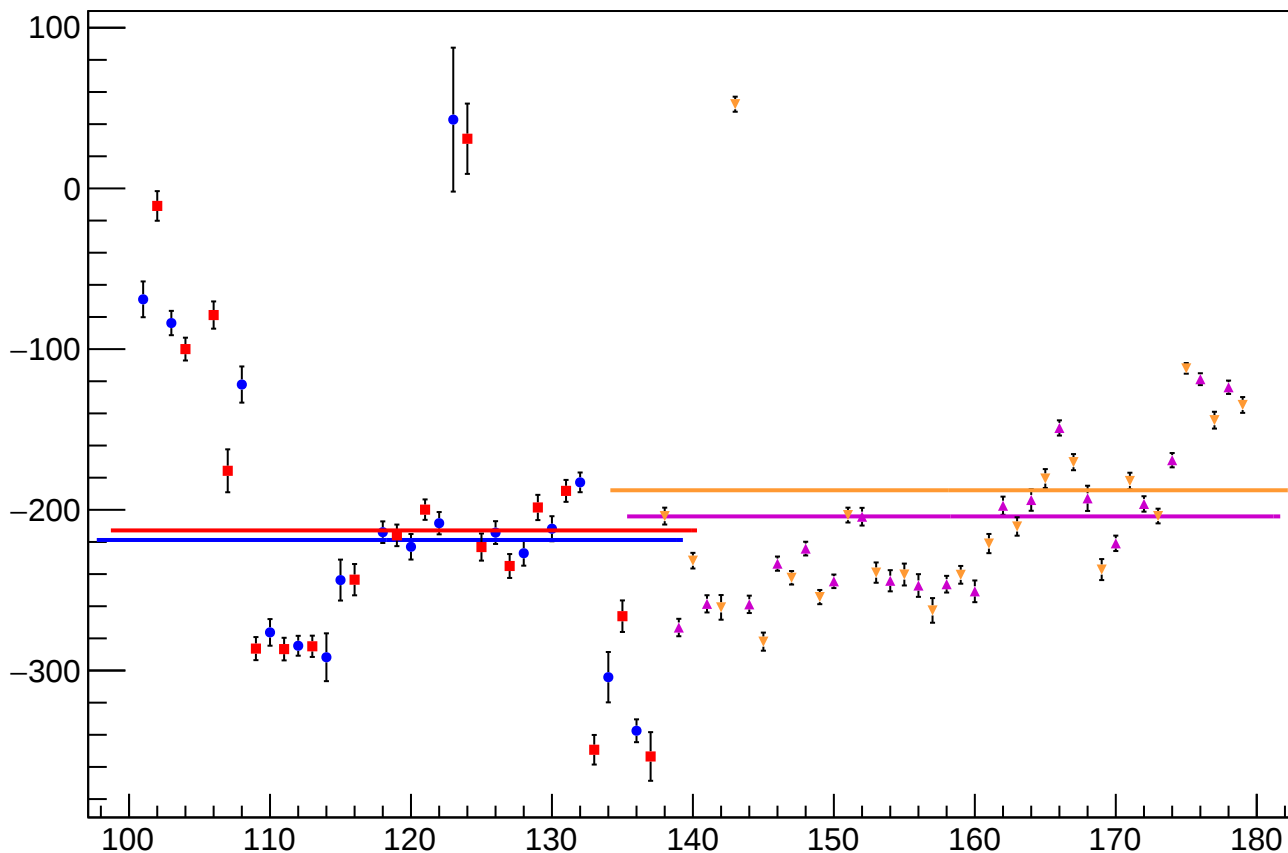
Right: 11.084+/-0.745  $\chi^2/\text{NDF}$ : 639.9/34

In: 6.529+/-0.660  $\chi^2/\text{NDF}$ : 581.8/36

Out: 5.605+/-0.637  $\chi^2/\text{NDF}$ : 555.8/39

All: 6.050+/-0.458  $\chi^2/\text{NDF}$ : 1138.6/76

reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-218.770 \pm 2.010$   $\chi^2/\text{NDF}: 1144.4/16$

Left Out:  $-187.833 \pm 1.098$   $\chi^2/\text{NDF}: 4644.4/21$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

Left In:  $-204.099 \pm 1.130$   $\chi^2/\text{NDF}: 1840.1/19$

Left:  $-195.735 \pm 0.788$   $\chi^2/\text{NDF}: 6591.1/41$

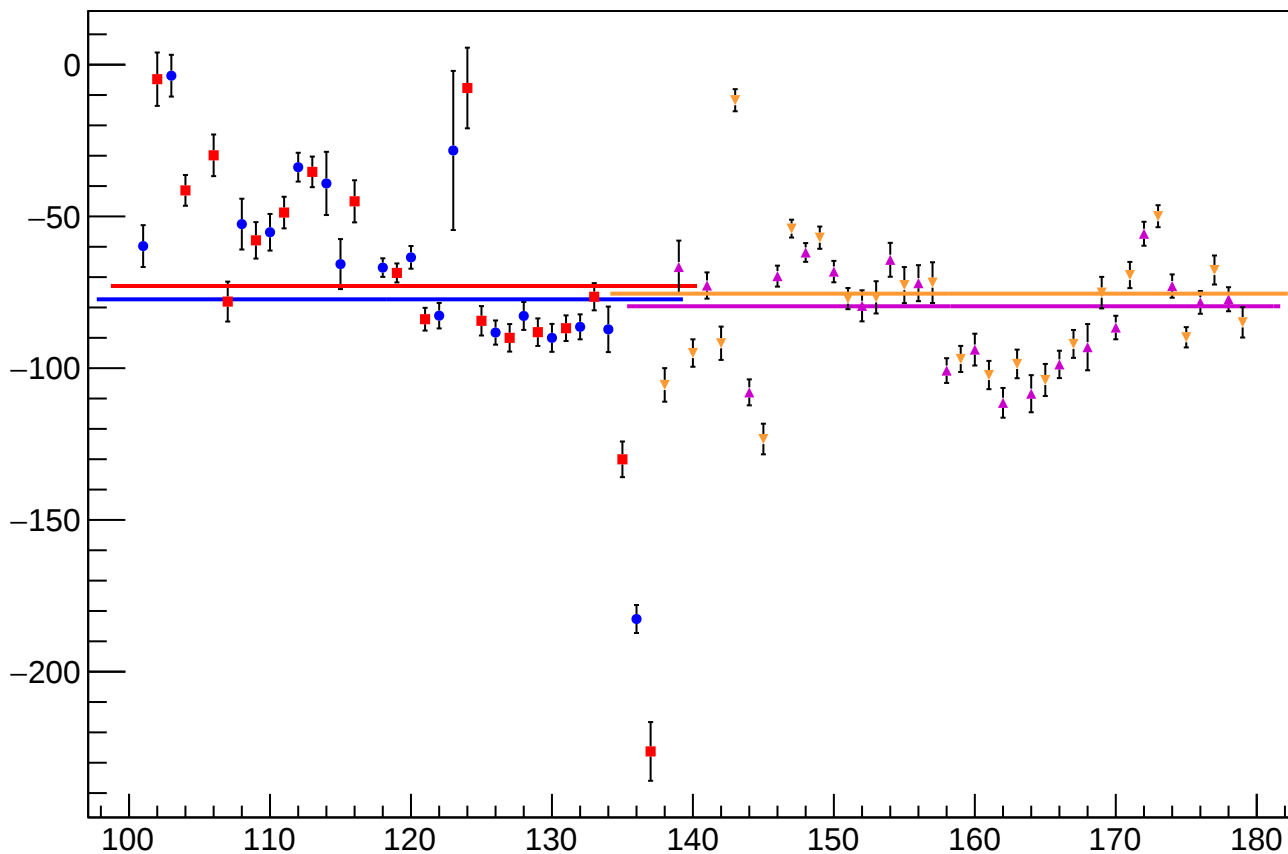
Right:  $-215.666 \pm 1.391$   $\chi^2/\text{NDF}: 2973.5/34$

In:  $-207.622 \pm 0.985$   $\chi^2/\text{NDF}: 3025.0/36$

Out:  $-193.963 \pm 0.954$   $\chi^2/\text{NDF}: 6595.9/39$

All:  $-200.574 \pm 0.685$   $\chi^2/\text{NDF}: 9720.1/76$

reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.319 \pm 1.222$   $\chi^2/\text{NDF}$ : 817.7/16

Left Out:  $-75.445 \pm 0.930$   $\chi^2/\text{NDF}$ : 733.0/21

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

Left In:  $-79.605 \pm 0.974$   $\chi^2/\text{NDF}$ : 272.9/19

Left:  $-77.429 \pm 0.673$   $\chi^2/\text{NDF}$ : 1015.5/41

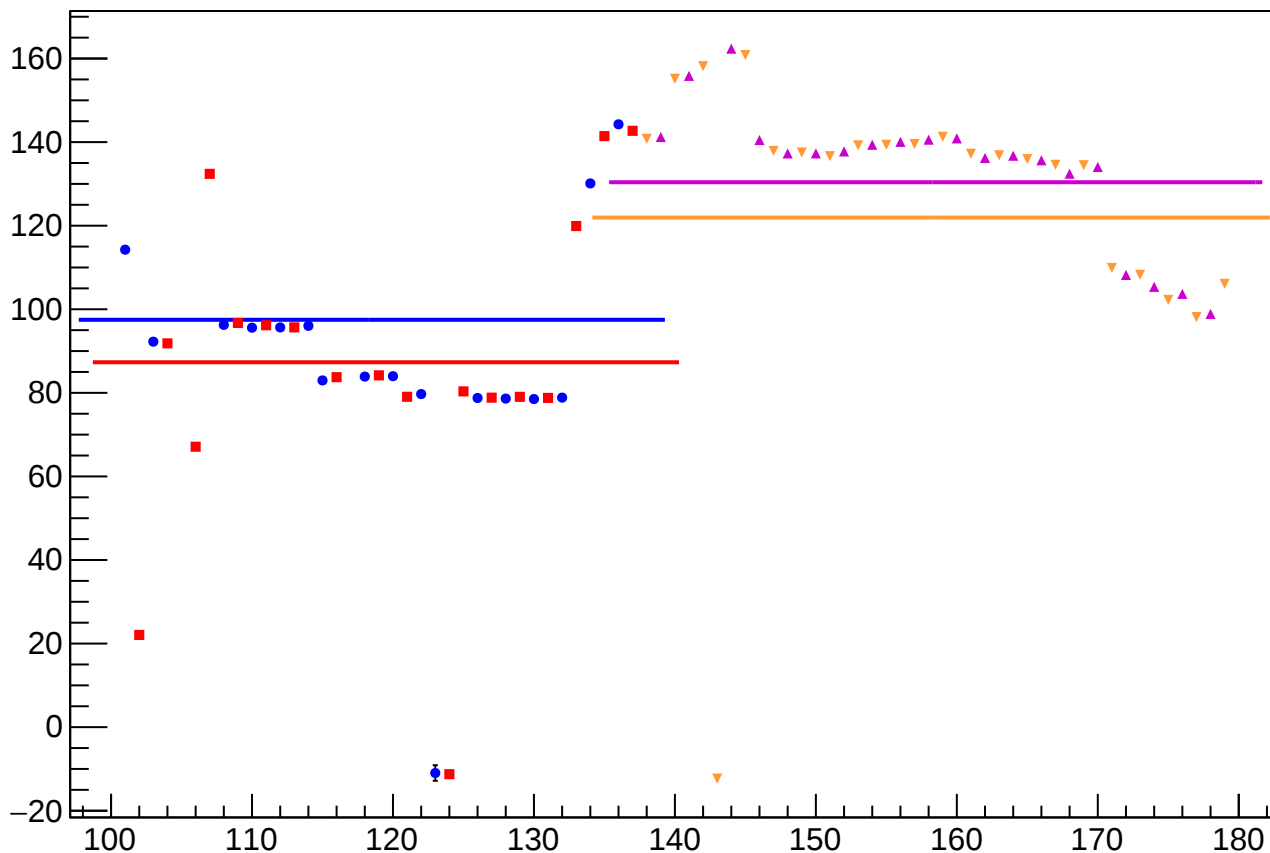
Right:  $-75.095 \pm 0.859$   $\chi^2/\text{NDF}$ : 1485.1/34

In:  $-78.717 \pm 0.762$   $\chi^2/\text{NDF}$ : 1092.7/36

Out:  $-74.506 \pm 0.737$   $\chi^2/\text{NDF}$ : 1396.6/39

All:  $-76.542 \pm 0.530$   $\chi^2/\text{NDF}$ : 2505.1/76

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $97.483 \pm 0.073$   $\chi^2/\text{NDF}: 94392.9/16$

Left Out:  $121.940 \pm 0.044$   $\chi^2/\text{NDF}: 693218.2/21$

Right Out:  $87.318 \pm 0.068$   $\chi^2/\text{NDF}: 221863.6/17$

Left In:  $130.397 \pm 0.045$   $\chi^2/\text{NDF}: 144115.9/19$

Left:  $126.090 \pm 0.032$   $\chi^2/\text{NDF}: 855073.1/41$

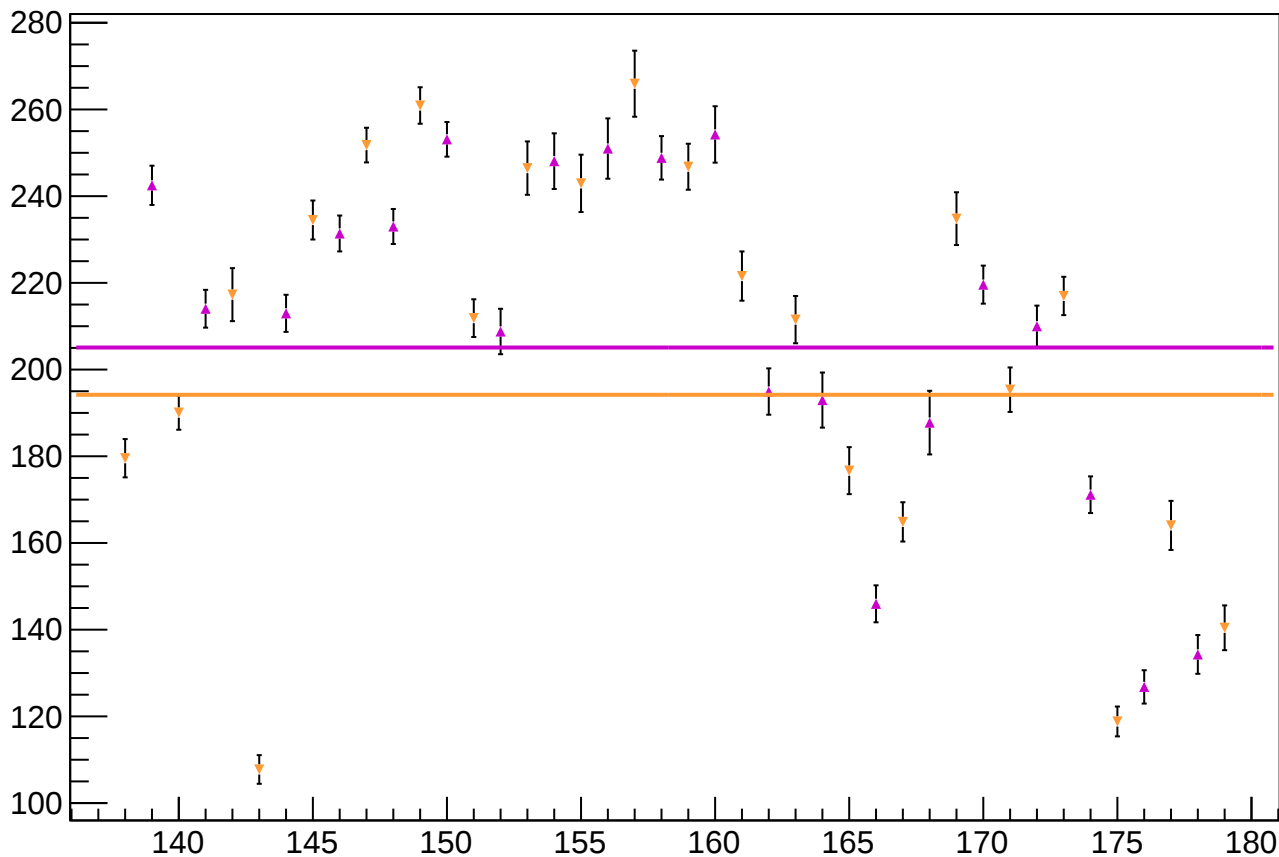
Right:  $92.040 \pm 0.050$   $\chi^2/\text{NDF}: 326534.9/34$

In:  $121.307 \pm 0.039$   $\chi^2/\text{NDF}: 384195.7/36$

Out:  $111.639 \pm 0.037$   $\chi^2/\text{NDF}: 1095373.1/39$

All:  $116.310 \pm 0.027$   $\chi^2/\text{NDF}: 1512071.0/76$

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: 194.180+/-1.014  $\chi^2/\text{NDF}$ :2351.5/21

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

Left In: 205.087+/-1.062  $\chi^2/\text{NDF}$ :1477.6/19

Left: 199.378+/-0.733  $\chi^2/\text{NDF}$ : 3884.2/41

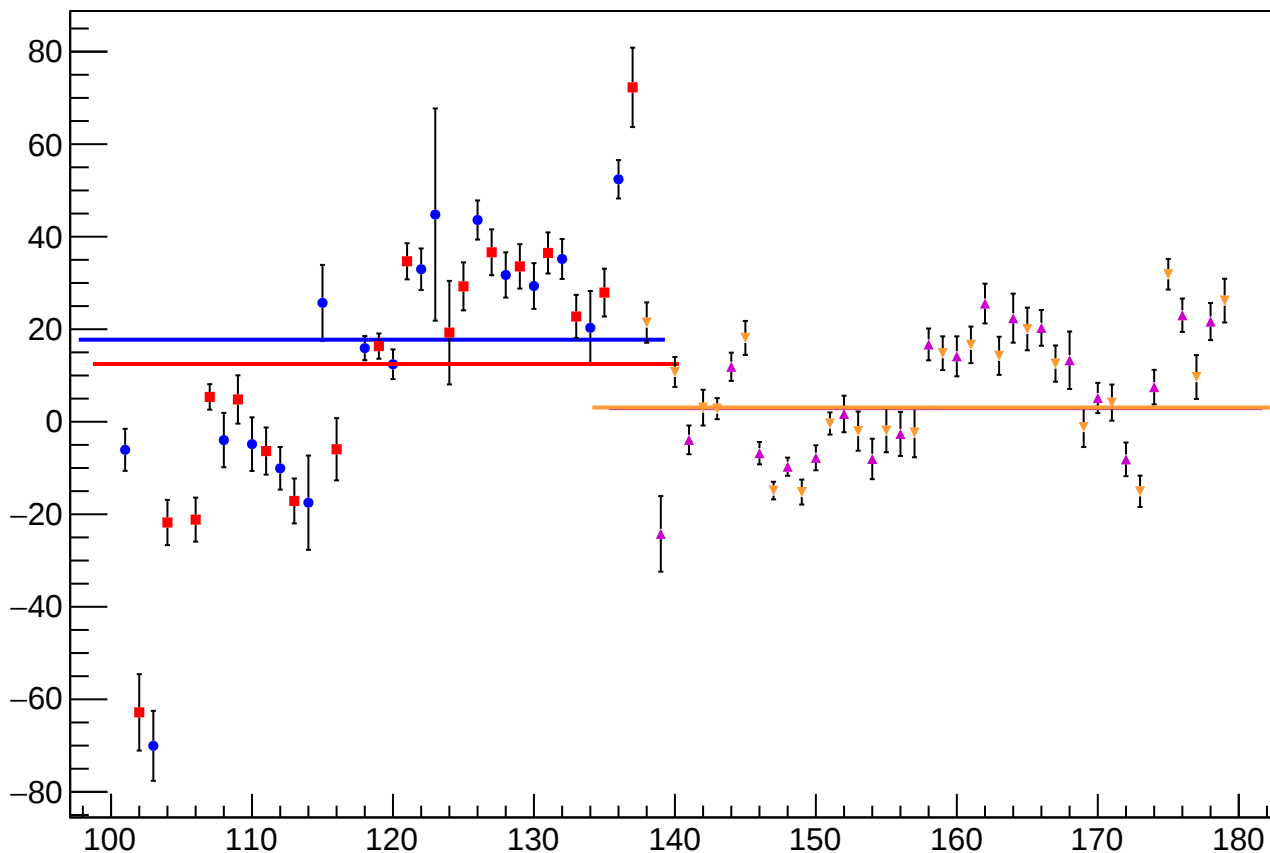
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 205.087+/-1.062  $\chi^2/\text{NDF}$ :1477.6/19

Out: 194.180+/-1.014  $\chi^2/\text{NDF}$ :2351.5/21

All: 199.378+/-0.733  $\chi^2/\text{NDF}$ : 3884.2/41

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 17.737+/-1.149  $\chi^2/\text{NDF}$ : 394.0/16

Left Out: 3.077+/-0.724  $\chi^2/\text{NDF}$ : 361.8/21

Right Out: 12.484+/-1.085  $\chi^2/\text{NDF}$ : 429.2/17

Left In: 2.945+/-0.777  $\chi^2/\text{NDF}$ : 257.1/19

Left: 3.015+/-0.530  $\chi^2/\text{NDF}$ : 618.9/41

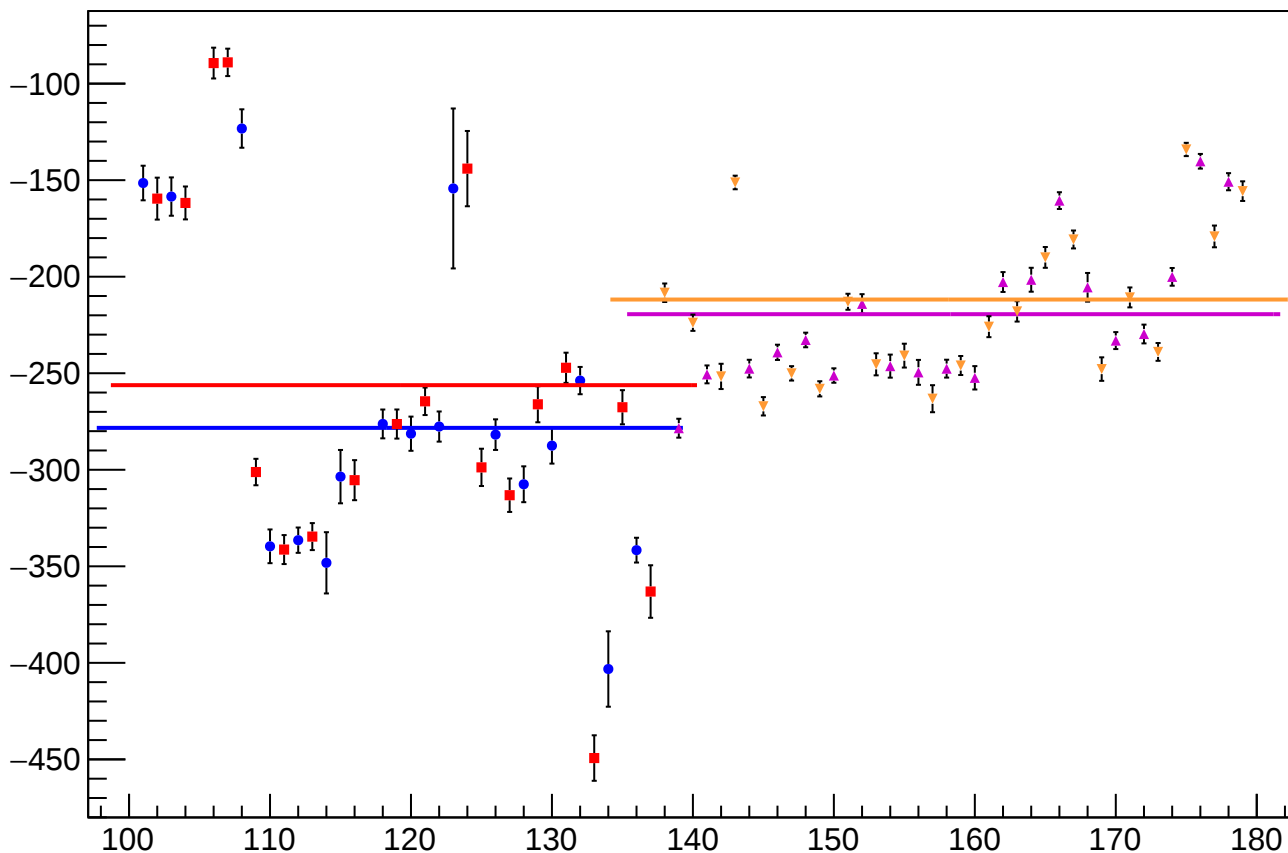
Right: 14.961+/-0.789  $\chi^2/\text{NDF}$ : 834.2/34

In: 7.586+/-0.643  $\chi^2/\text{NDF}$ : 764.9/36

Out: 5.976+/-0.602  $\chi^2/\text{NDF}$ : 843.0/39

All: 6.728+/-0.440  $\chi^2/\text{NDF}$ : 1611.2/76

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-278.294 \pm 2.172$   $\chi^2/\text{NDF}$ : 910.0/16

Left Out:  $-211.824 \pm 1.011$   $\chi^2/\text{NDF}$ : 1684.2/21

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}$ : 1952.2/17

Left In:  $-219.414 \pm 1.052$   $\chi^2/\text{NDF}$ : 1358.7/19

Left:  $-215.468 \pm 0.729$   $\chi^2/\text{NDF}$ : 3070.0/41

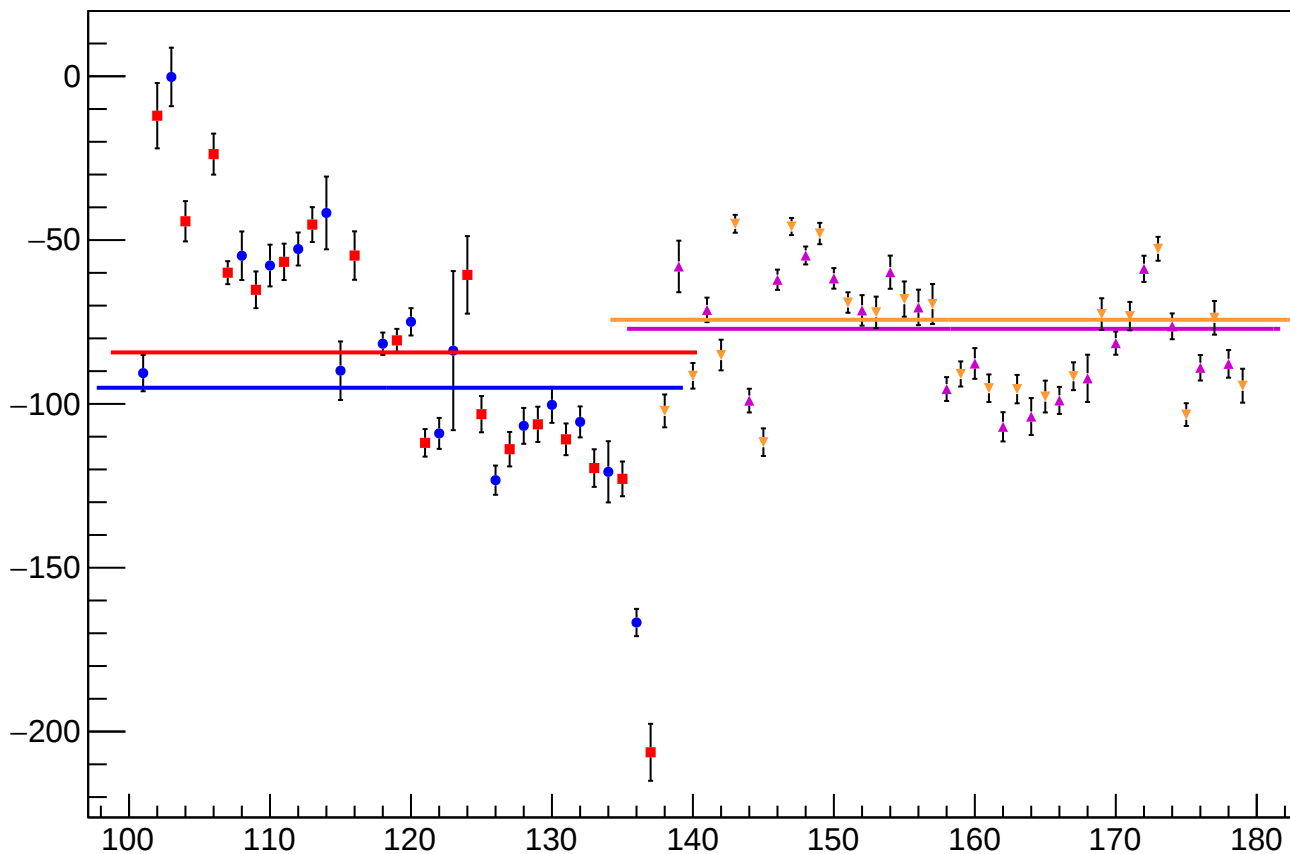
Right:  $-266.460 \pm 1.481$   $\chi^2/\text{NDF}$ : 2917.6/34

In:  $-230.602 \pm 0.947$   $\chi^2/\text{NDF}$ : 2863.8/36

Out:  $-220.673 \pm 0.904$   $\chi^2/\text{NDF}$ : 4020.5/39

All:  $-225.410 \pm 0.654$   $\chi^2/\text{NDF}$ : 6941.8/76

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-95.074 \pm 1.325$   $\chi^2/\text{NDF}$ : 673.2/16

Left Out:  $-74.313 \pm 0.847$   $\chi^2/\text{NDF}$ : 664.4/21

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

Left In:  $-77.082 \pm 0.900$   $\chi^2/\text{NDF}$ : 342.8/19

Left:  $-75.613 \pm 0.617$   $\chi^2/\text{NDF}$ : 1012.3/41

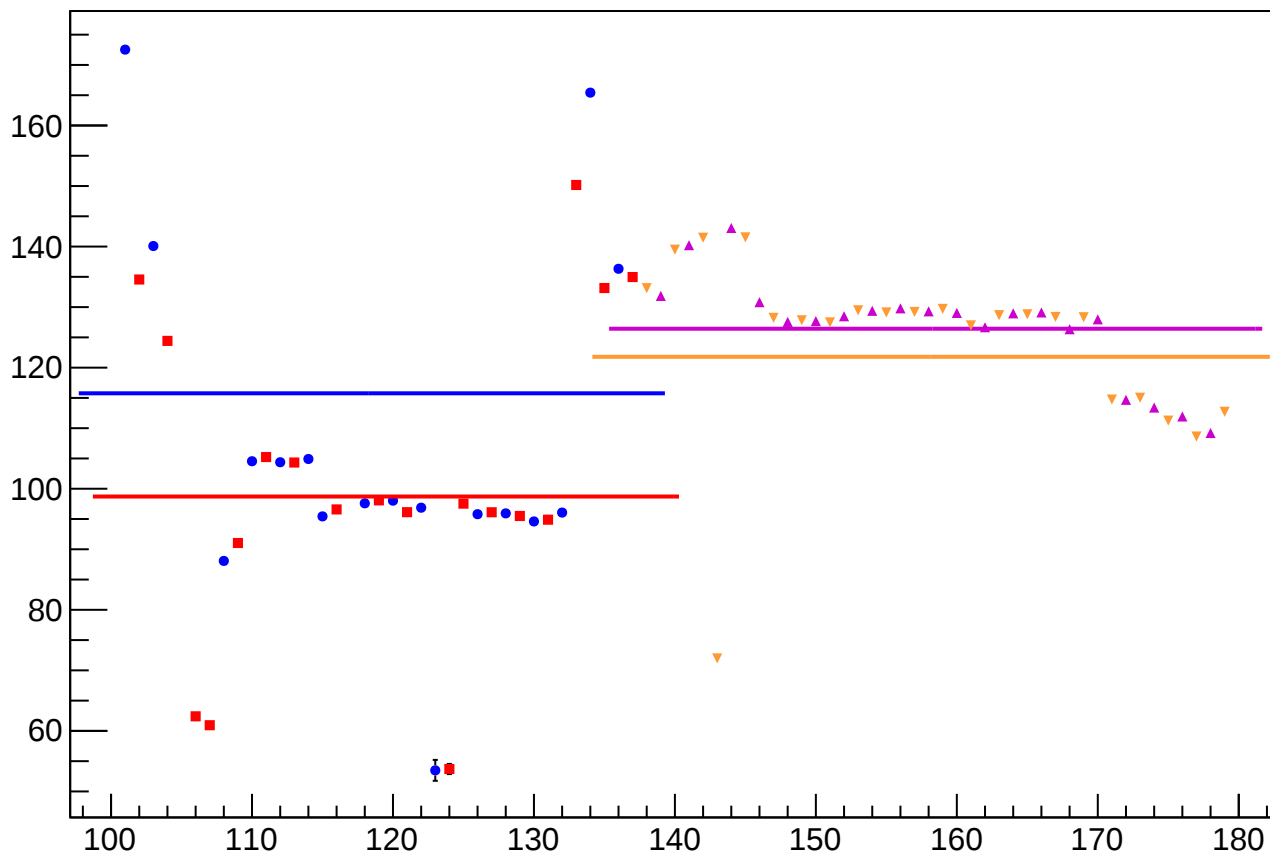
Right:  $-89.402 \pm 0.913$   $\chi^2/\text{NDF}$ : 1476.8/34

In:  $-82.764 \pm 0.745$   $\chi^2/\text{NDF}$ : 1142.1/36

Out:  $-77.425 \pm 0.703$   $\chi^2/\text{NDF}$ : 1476.5/39

All:  $-79.939 \pm 0.511$   $\chi^2/\text{NDF}$ : 2645.8/76

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 115.763 $\pm$ 0.078  $\chi^2$ /NDF: 106297.4/16

Left Out: 121.792 $\pm$ 0.041  $\chi^2$ /NDF:178911.7/21

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

Left In: 126.429 $\pm$ 0.042  $\chi^2$ /NDF:39882.7/19

Left: 124.040 $\pm$ 0.029  $\chi^2$ /NDF: 225030.9/41

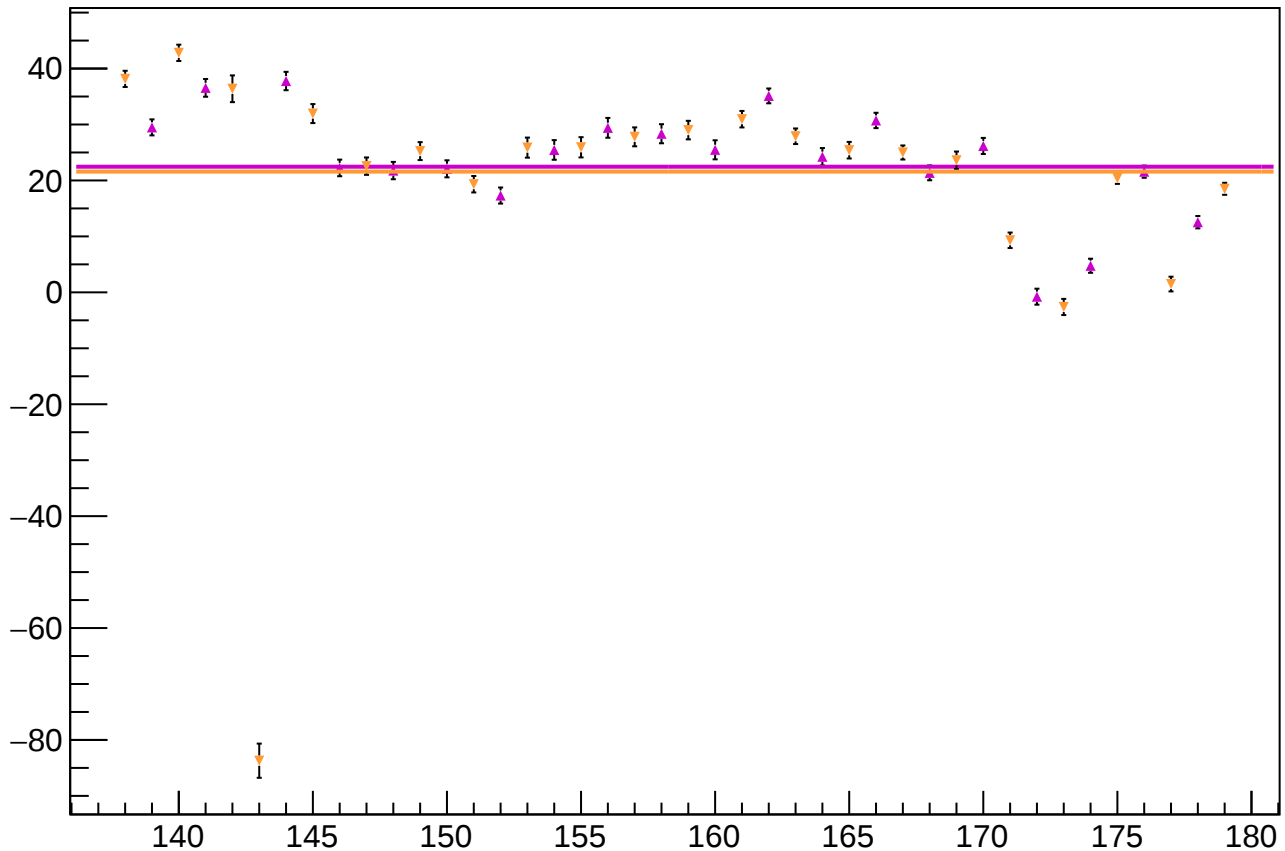
Right: 106.153 $\pm$ 0.052  $\chi^2$ /NDF: 303349.7/34

In: 124.022 $\pm$ 0.037  $\chi^2$ /NDF:160629.1/36

Out: 115.757 $\pm$ 0.035  $\chi^2$ /NDF:432412.1/39

All: 119.666 $\pm$ 0.026  $\chi^2$ /NDF: 619211.7/76

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: 21.579+/-0.315  $\chi^2/\text{NDF}$ :2336.4/21

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

Left In: 22.457+/-0.321  $\chi^2/\text{NDF}$ :915.4/19

Left: 22.010+/-0.225  $\chi^2/\text{NDF}$ : 3255.5/41

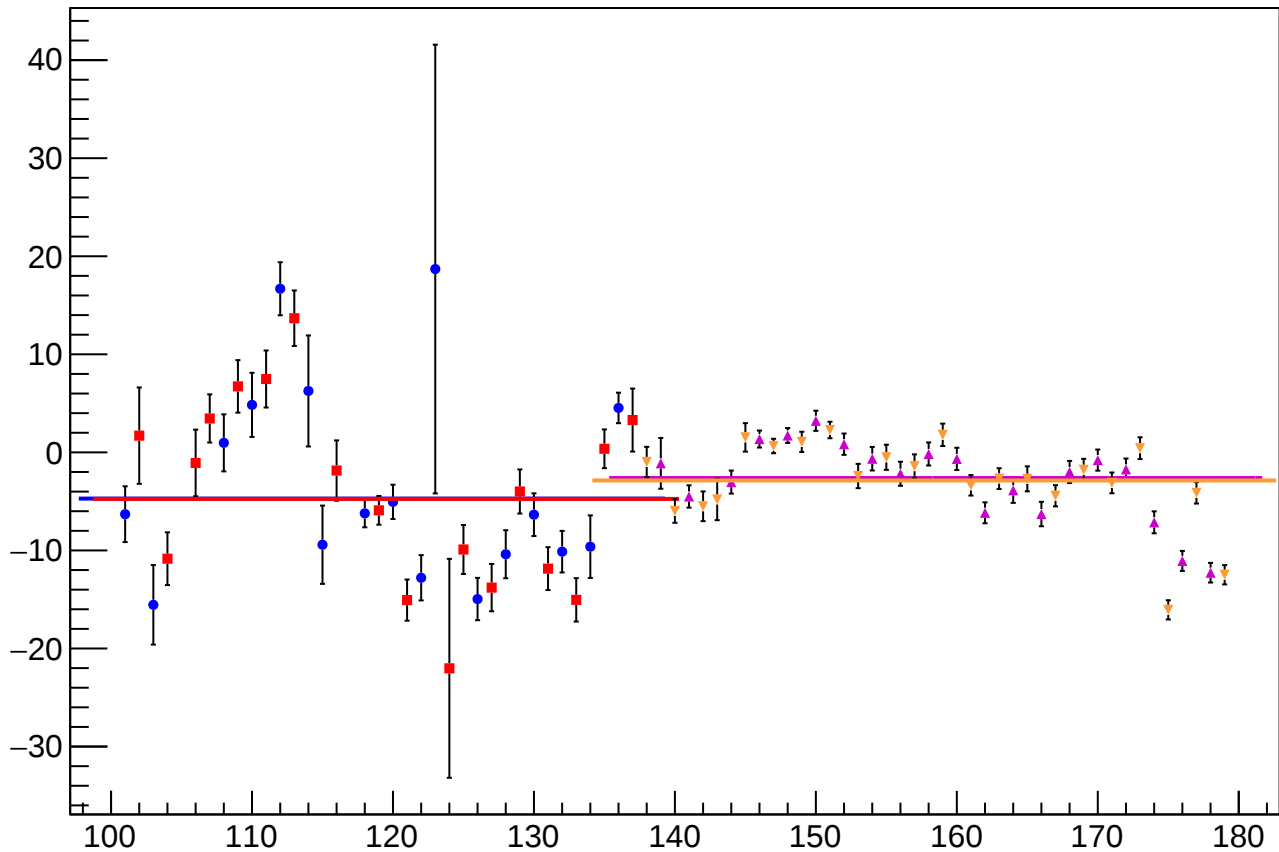
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 22.457+/-0.321  $\chi^2/\text{NDF}$ :915.4/19

Out: 21.579+/-0.315  $\chi^2/\text{NDF}$ :2336.4/21

All: 22.010+/-0.225  $\chi^2/\text{NDF}$ : 3255.5/41

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-4.713 \pm 0.581$   $\chi^2/\text{NDF}$ : 174.7/16

Left Out:  $-2.862 \pm 0.237$   $\chi^2/\text{NDF}$ : 407.0/21

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

Left In:  $-2.618 \pm 0.244$   $\chi^2/\text{NDF}$ : 311.9/19

Left:  $-2.744 \pm 0.170$   $\chi^2/\text{NDF}$ : 719.4/41

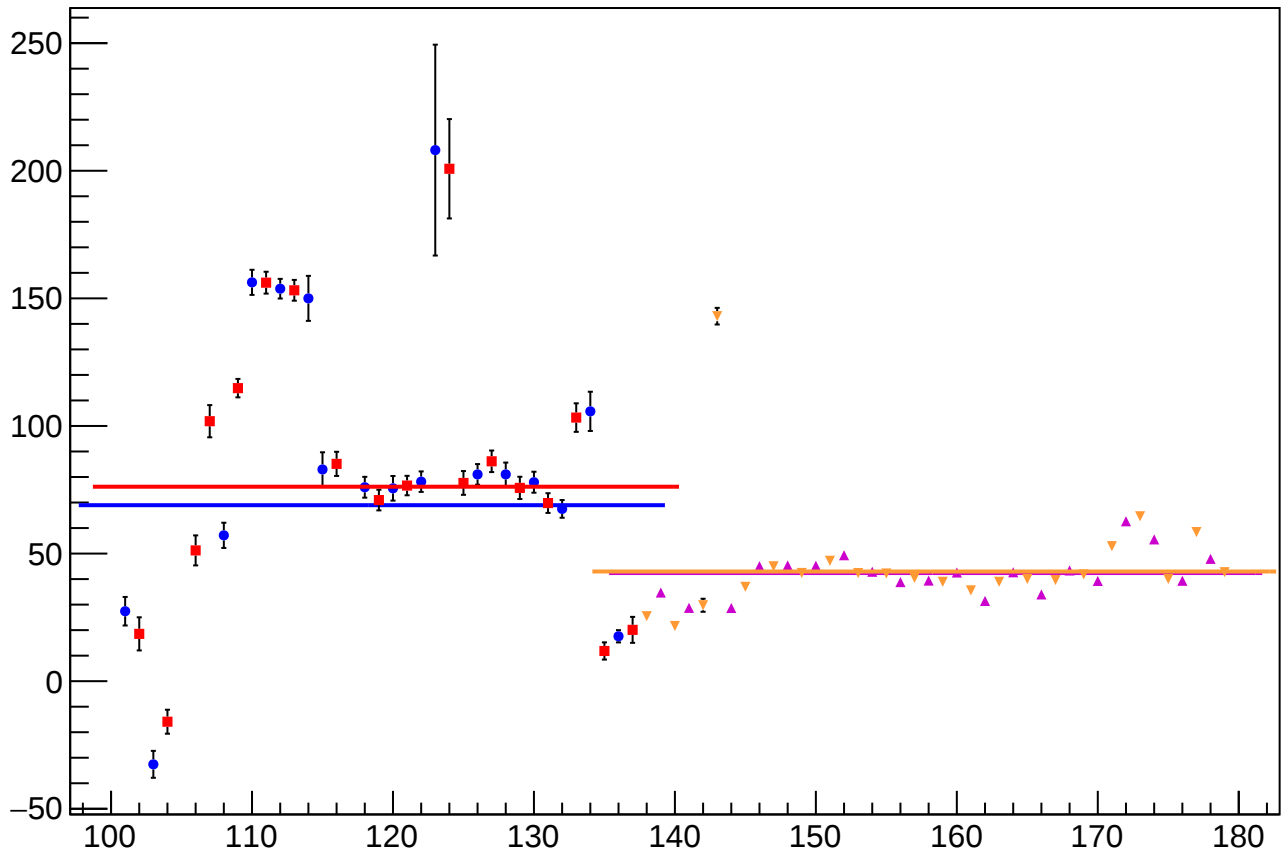
Right:  $-4.729 \pm 0.412$   $\chi^2/\text{NDF}$ : 364.0/34

In:  $-2.933 \pm 0.225$   $\chi^2/\text{NDF}$ : 497.7/36

Out:  $-3.127 \pm 0.220$   $\chi^2/\text{NDF}$ : 605.2/39

All:  $-3.033 \pm 0.157$   $\chi^2/\text{NDF}$ : 1103.2/76

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $68.960 \pm 1.079$   $\chi^2/\text{NDF}: 1844.0/16$

Left Out:  $42.973 \pm 0.312$   $\chi^2/\text{NDF}: 1766.1/21$

Right Out:  $76.199 \pm 1.071$   $\chi^2/\text{NDF}: 1881.0/17$

Left In:  $42.373 \pm 0.317$   $\chi^2/\text{NDF}: 630.5/19$

Left:  $42.679 \pm 0.222$   $\chi^2/\text{NDF}: 2398.4/41$

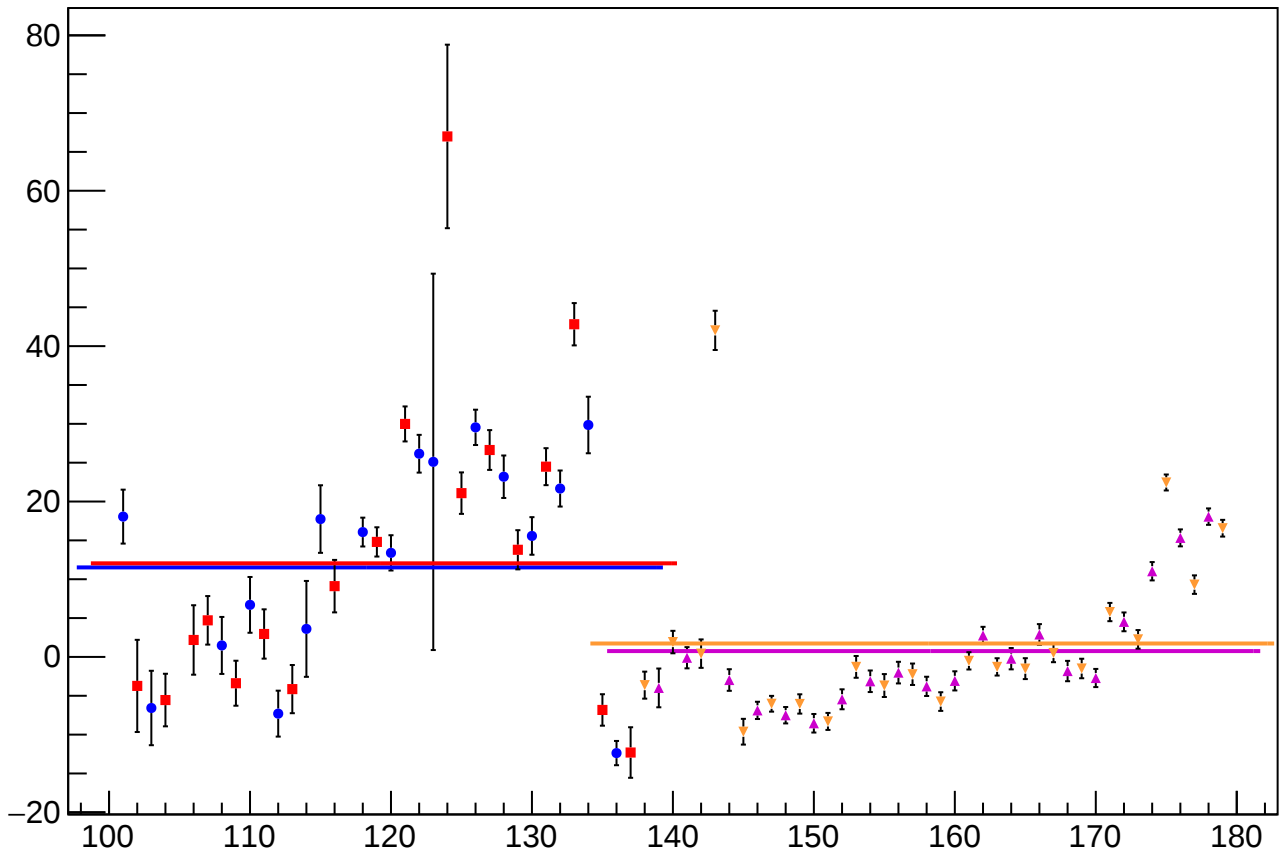
Right:  $72.606 \pm 0.760$   $\chi^2/\text{NDF}: 3747.6/34$

In:  $44.492 \pm 0.305$   $\chi^2/\text{NDF}: 3033.3/36$

Out:  $45.568 \pm 0.299$   $\chi^2/\text{NDF}: 4534.4/39$

All:  $45.039 \pm 0.213$   $\chi^2/\text{NDF}: 7574.1/76$

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.521 $\pm$ 0.660  $\chi^2$ /NDF: 477.2/16

Left Out: 1.728 $\pm$ 0.270  $\chi^2$ /NDF:1232.1/21

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

Left In: 0.752 $\pm$ 0.278  $\chi^2$ /NDF:789.5/19

Left: 1.255 $\pm$ 0.194  $\chi^2$ /NDF: 2027.9/41

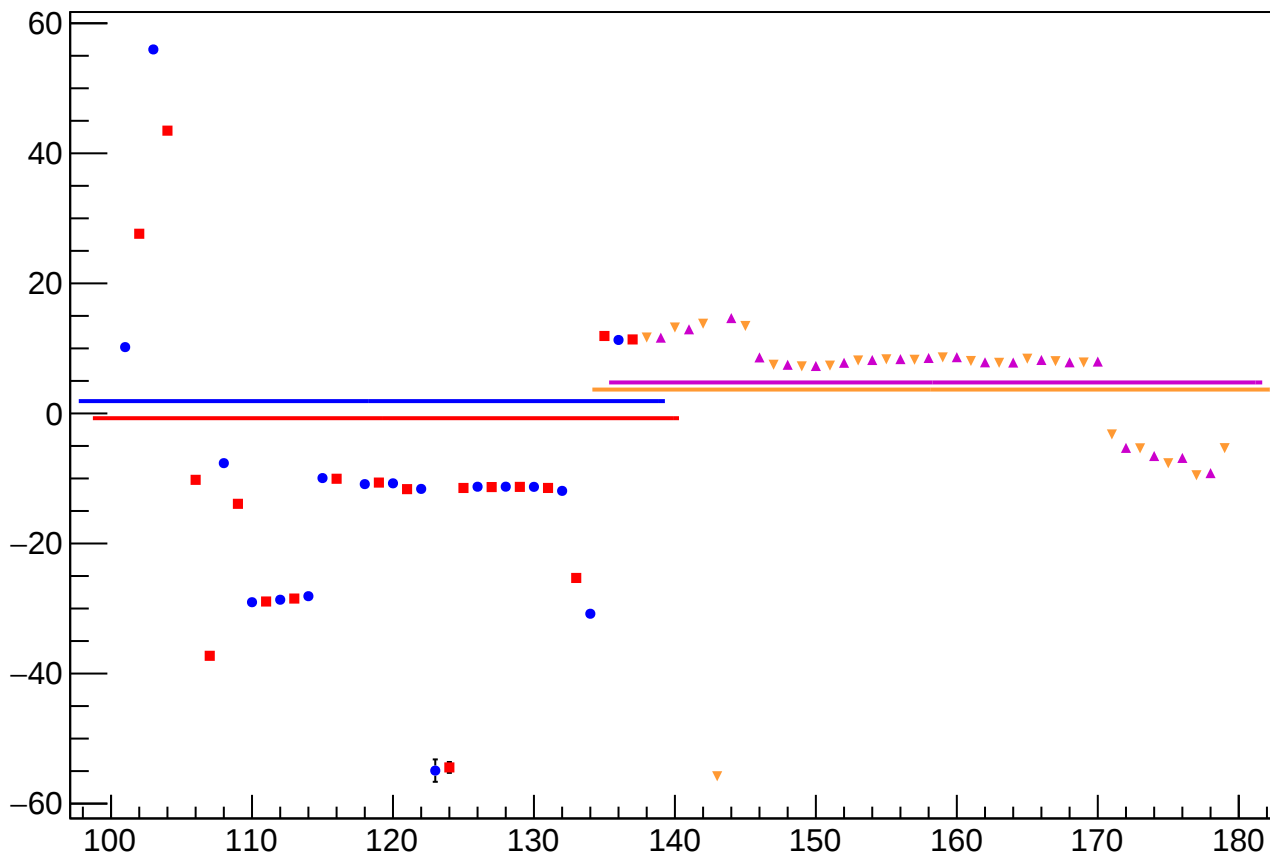
Right: 11.782 $\pm$ 0.468  $\chi^2$ /NDF: 1016.2/34

In: 2.376 $\pm$ 0.256  $\chi^2$ /NDF:1492.9/36

Out: 3.190 $\pm$ 0.250  $\chi^2$ /NDF:1977.8/39

All: 2.793 $\pm$ 0.179  $\chi^2$ /NDF: 3475.8/76

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $1.896 \pm 0.037$   $\chi^2/\text{NDF}: 358855.7/16$

Left Out:  $3.671 \pm 0.012$   $\chi^2/\text{NDF}: 543225.4/21$

Right Out:  $-0.733 \pm 0.037$   $\chi^2/\text{NDF}: 359934.4/17$

Left In:  $4.765 \pm 0.013$   $\chi^2/\text{NDF}: 314846.2/19$

Left:  $4.213 \pm 0.009$   $\chi^2/\text{NDF}: 861898.2/41$

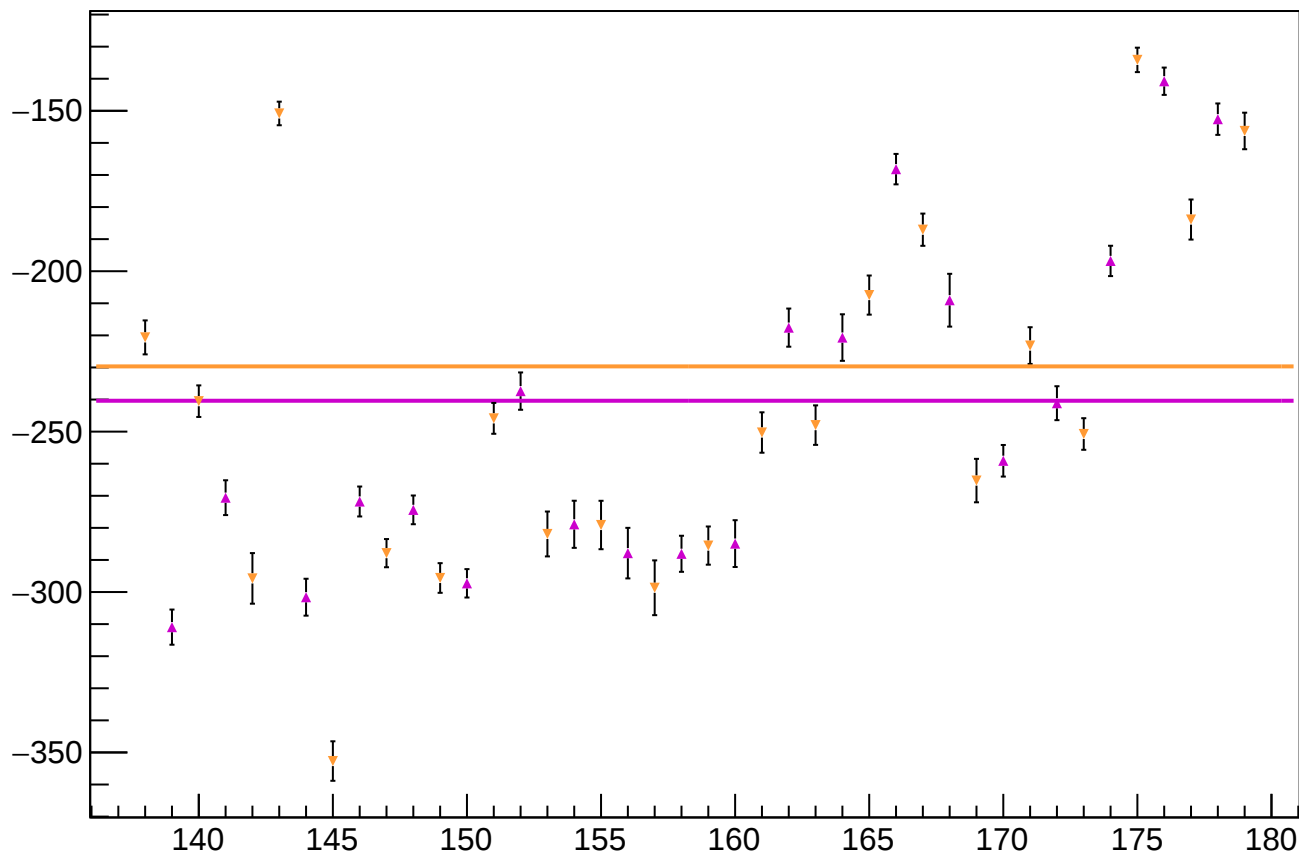
Right:  $0.584 \pm 0.026$   $\chi^2/\text{NDF}: 721303.3/34$

In:  $4.469 \pm 0.012$   $\chi^2/\text{NDF}: 679081.8/36$

Out:  $3.226 \pm 0.012$   $\chi^2/\text{NDF}: 915818.5/39$

All:  $3.842 \pm 0.008$   $\chi^2/\text{NDF}: 1600400.2/76$

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: -229.666+/-1.153  $\chi^2/\text{NDF}$ :2580.2/21

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

Left In: -240.376+/-1.209  $\chi^2/\text{NDF}$ :1988.6/19

Left: -234.767+/-0.834  $\chi^2/\text{NDF}$ : 4609.8/41

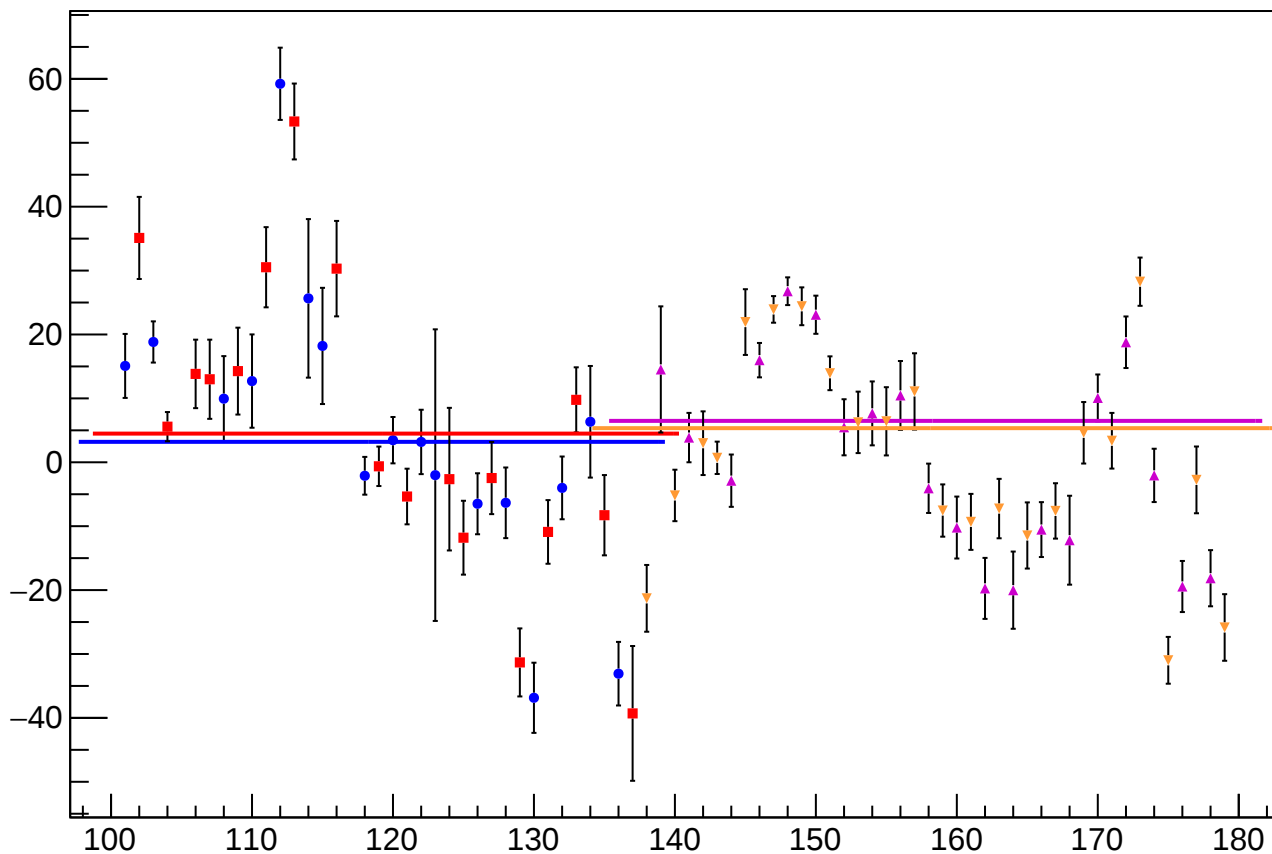
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -240.376+/-1.209  $\chi^2/\text{NDF}$ :1988.6/19

Out: -229.666+/-1.153  $\chi^2/\text{NDF}$ :2580.2/21

All: -234.767+/-0.834  $\chi^2/\text{NDF}$ : 4609.8/41

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.200 \pm 1.227$   $\chi^2/\text{NDF}: 255.2/16$

Left Out:  $5.340 \pm 0.819$   $\chi^2/\text{NDF}: 401.2/21$

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}: 221.8/17$

Left In:  $6.479 \pm 0.881$   $\chi^2/\text{NDF}: 317.3/19$

Left:  $5.868 \pm 0.600$   $\chi^2/\text{NDF}: 719.3/41$

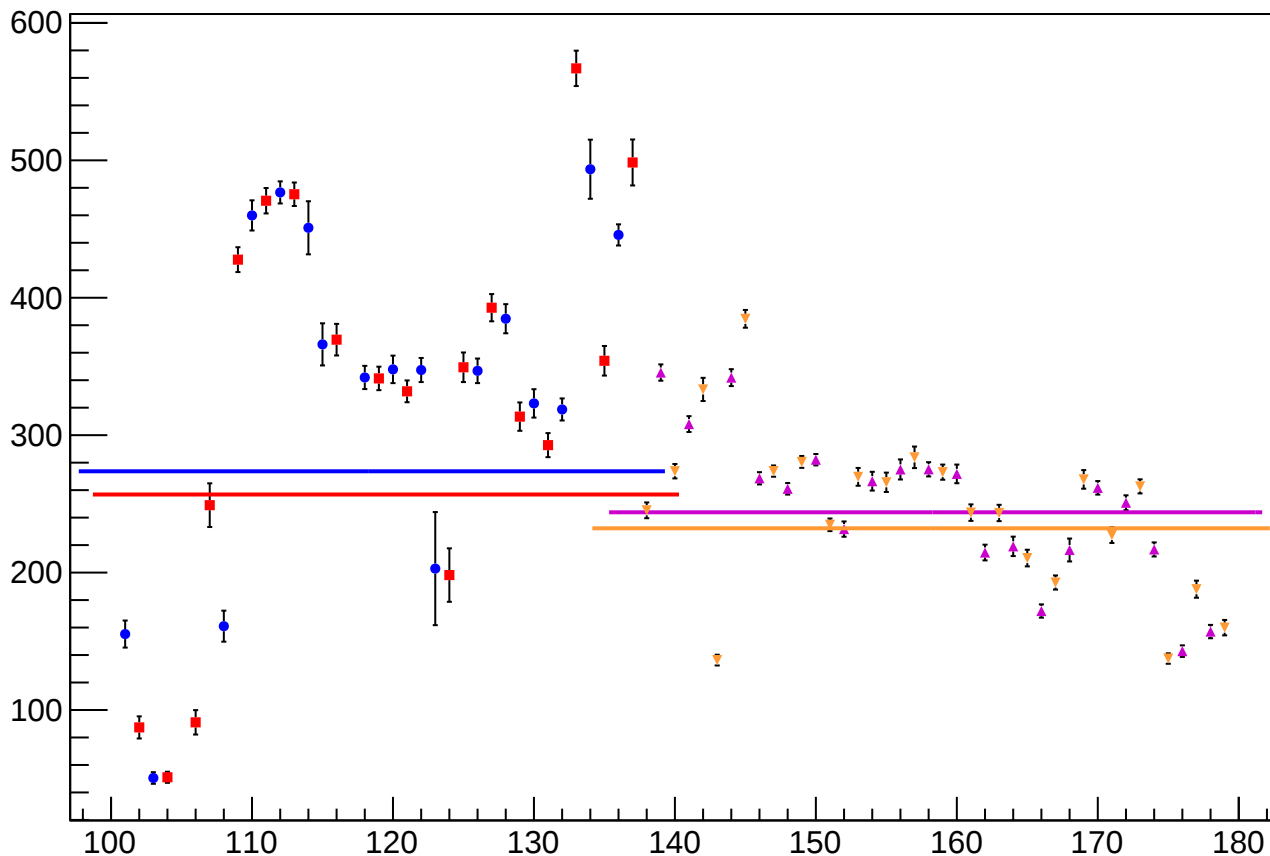
Right:  $3.881 \pm 0.843$   $\chi^2/\text{NDF}: 477.5/34$

In:  $5.364 \pm 0.716$   $\chi^2/\text{NDF}: 577.2/36$

Out:  $5.056 \pm 0.669$   $\chi^2/\text{NDF}: 623.3/39$

All:  $5.200 \pm 0.489$   $\chi^2/\text{NDF}: 1200.5/76$

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 273.717 $\pm$ 2.195  $\chi^2$ /NDF: 5103.3/16

Left Out: 232.231 $\pm$ 1.146  $\chi^2$ /NDF:2730.0/21

Right Out: 256.826 $\pm$ 2.084  $\chi^2$ /NDF: 6411.8/17

Left In: 243.880 $\pm$ 1.194  $\chi^2$ /NDF:2099.3/19

Left: 237.817 $\pm$ 0.827  $\chi^2$ /NDF: 4878.8/41

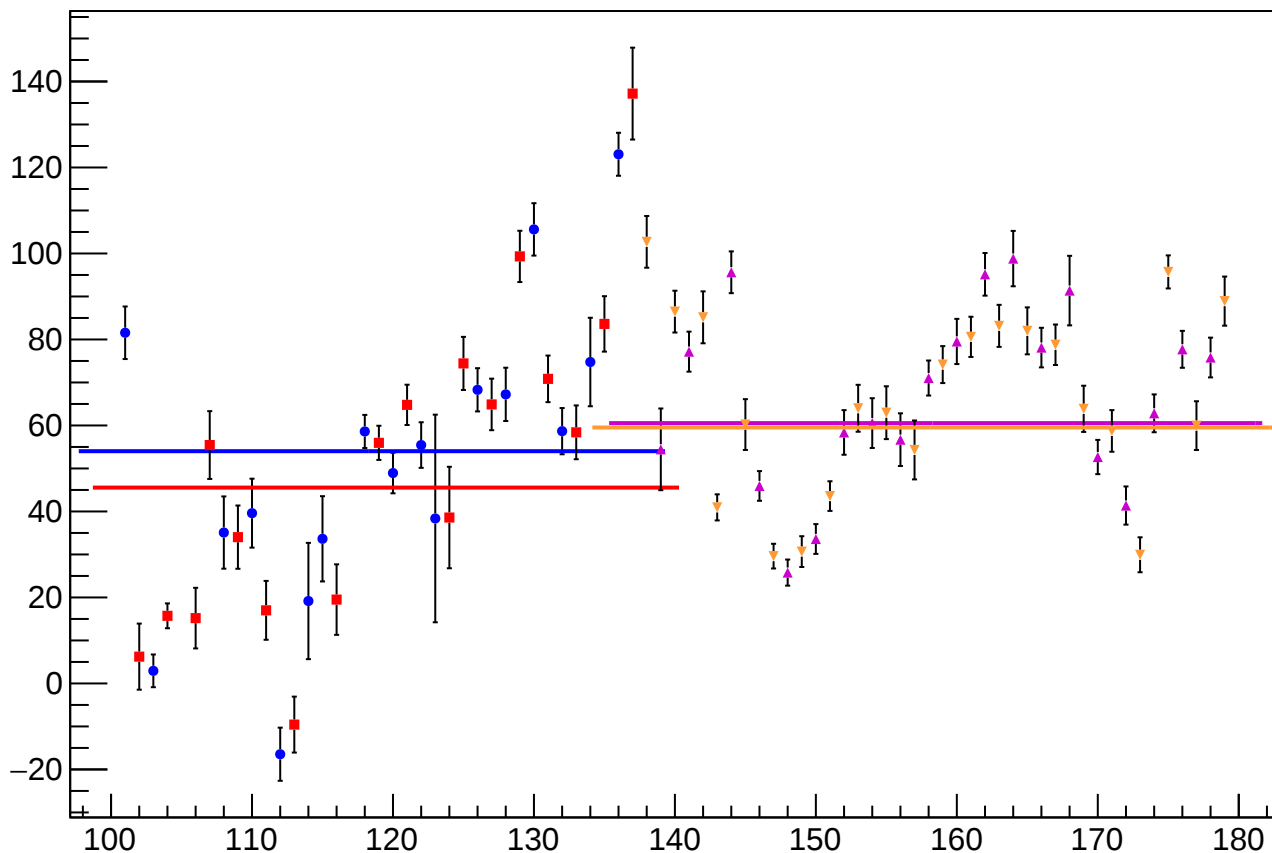
Right: 264.834 $\pm$ 1.511  $\chi^2$ /NDF: 11546.2/34

In: 250.694 $\pm$ 1.049  $\chi^2$ /NDF:7345.2/36

Out: 237.944 $\pm$ 1.004  $\chi^2$ /NDF:9248.7/39

All: 244.042 $\pm$ 0.725  $\chi^2$ /NDF: 16671.0/76

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 54.016 $\pm$ 1.423  $\chi^2$ /NDF: 632.9/16

Left Out: 59.525 $\pm$ 0.959  $\chi^2$ /NDF: 592.1/21

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

Left In: 60.548 $\pm$ 1.021  $\chi^2$ /NDF: 457.9/19

Left: 60.004 $\pm$ 0.699  $\chi^2$ /NDF: 1050.5/41

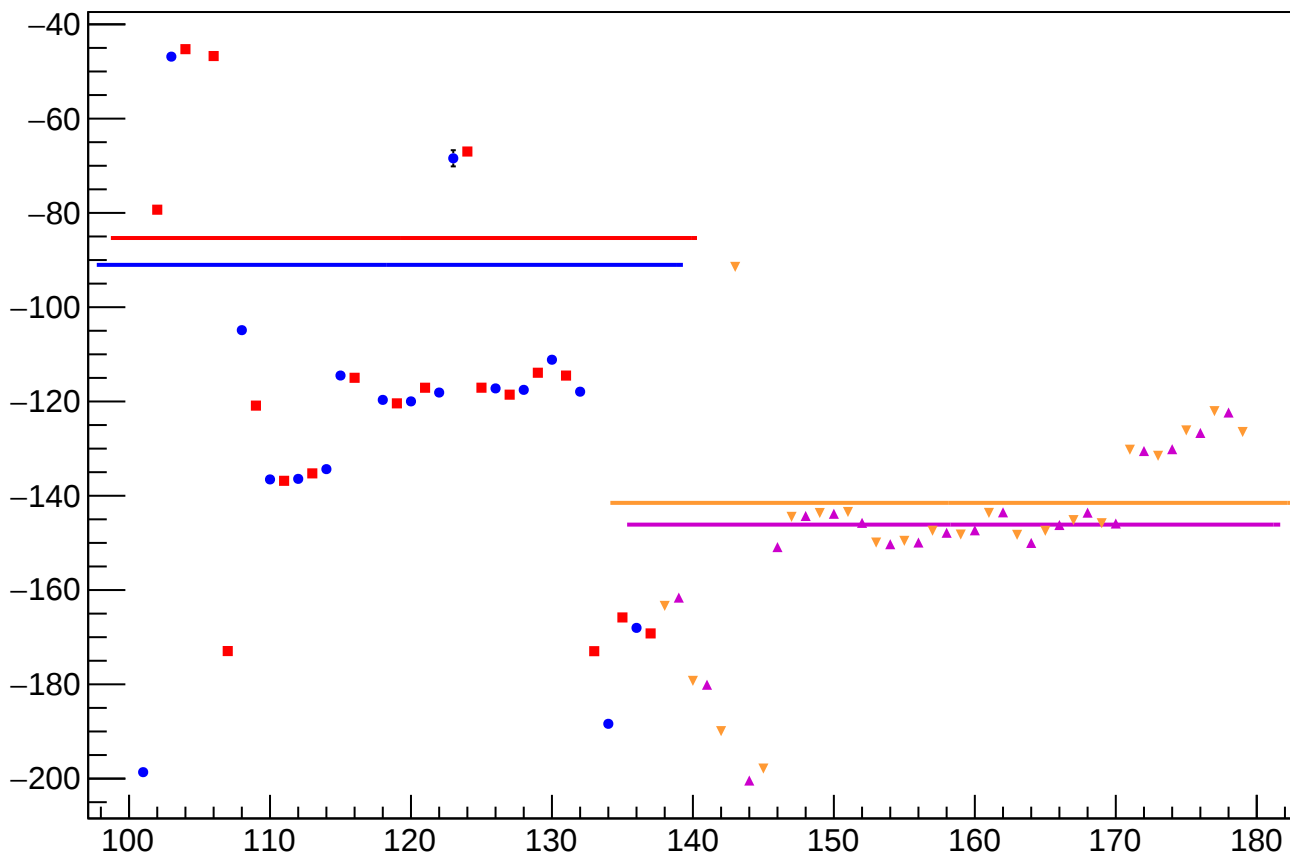
Right: 49.587 $\pm$ 0.983  $\chi^2$ /NDF: 1178.0/34

In: 58.328 $\pm$ 0.830  $\chi^2$ /NDF: 1104.6/36

Out: 54.877 $\pm$ 0.783  $\chi^2$ /NDF: 1189.3/39

All: 56.504 $\pm$ 0.570  $\chi^2$ /NDF: 2303.1/76

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -91.021+/-0.068  $\chi^2/\text{NDF}$ : 534258.1/16

Left Out: -141.508+/-0.046  $\chi^2/\text{NDF}$ : 235231.1/21

Right Out: -85.325+/-0.065  $\chi^2/\text{NDF}$ : 483106.3/17

Left In: -146.122+/-0.048  $\chi^2/\text{NDF}$ : 104054.0/19

Left: -143.743+/-0.033  $\chi^2/\text{NDF}$ : 344073.0/41

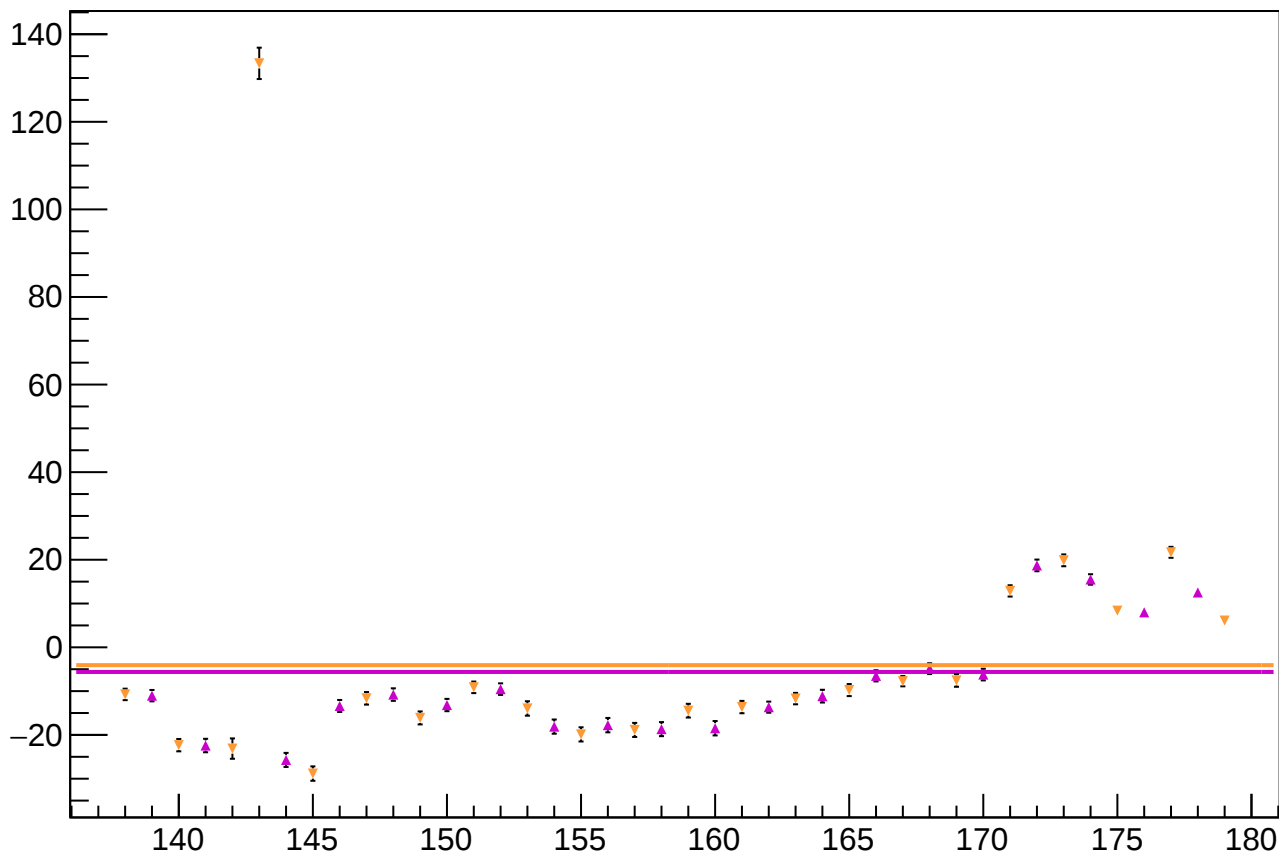
Right: -88.069+/-0.047  $\chi^2/\text{NDF}$ : 1021045.4/34

In: -127.713+/-0.039  $\chi^2/\text{NDF}$ : 1080967.2/36

Out: -122.598+/-0.038  $\chi^2/\text{NDF}$ : 1211524.3/39

All: -125.072+/-0.027  $\chi^2/\text{NDF}$ : 2301344.4/76

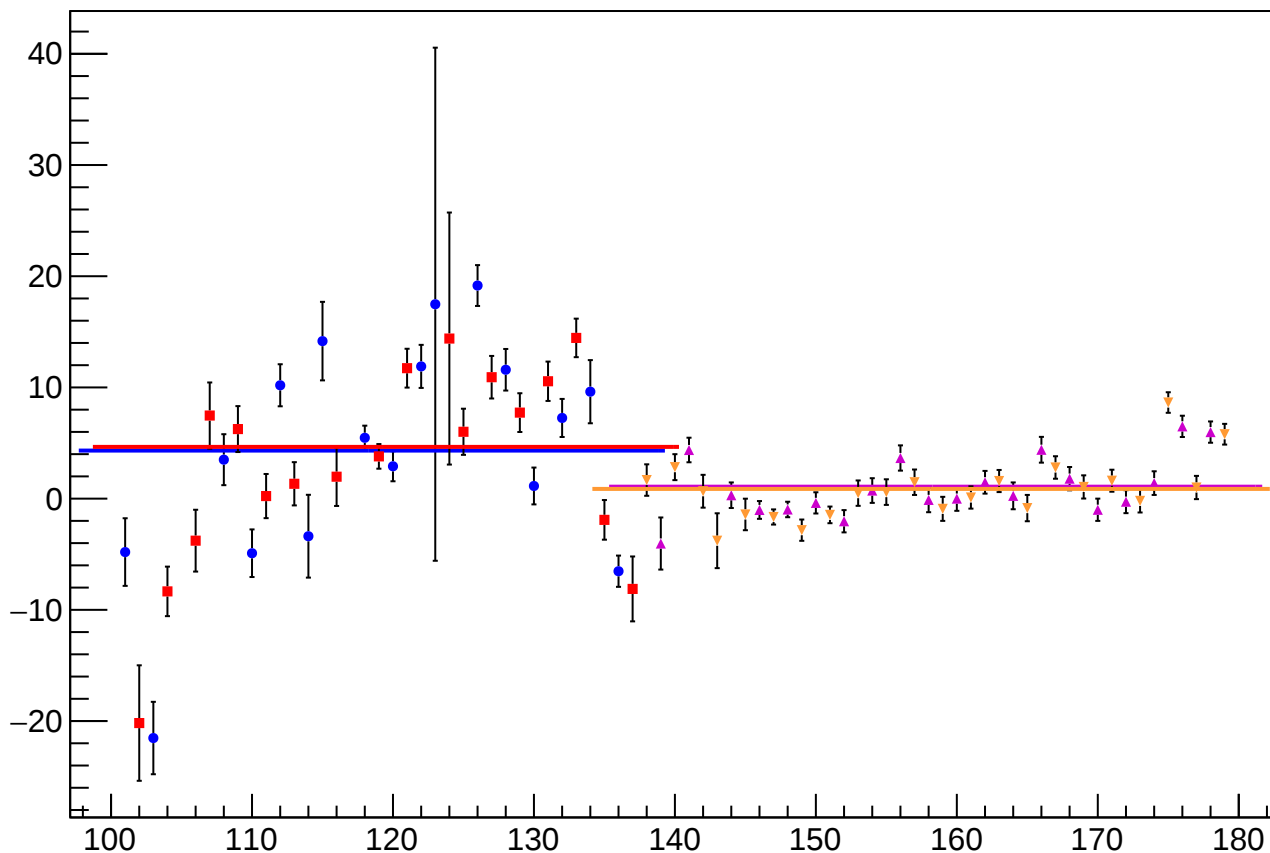
reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.070+/-0.296  $\chi^2/\text{NDF}$ : 3617.9/21  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.626+/-0.301  $\chi^2/\text{NDF}$ : 1790.5/19

Left: -4.835+/-0.211  $\chi^2/\text{NDF}$ : 5422.0/41  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.626+/-0.301  $\chi^2/\text{NDF}$ : 1790.5/19  
 Out: -4.070+/-0.296  $\chi^2/\text{NDF}$ : 3617.9/21  
 All: -4.835+/-0.211  $\chi^2/\text{NDF}$ : 5422.0/41

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.322 $\pm$ 0.465  $\chi^2$ /NDF: 280.3/16

Left Out: 0.874 $\pm$ 0.222  $\chi^2$ /NDF:158.0/21

Right Out: 4.653 $\pm$ 0.474  $\chi^2$ /NDF: 184.4/17

Left In: 1.075 $\pm$ 0.229  $\chi^2$ /NDF:122.7/19

Left: 0.971 $\pm$ 0.159  $\chi^2$ /NDF: 281.2/41

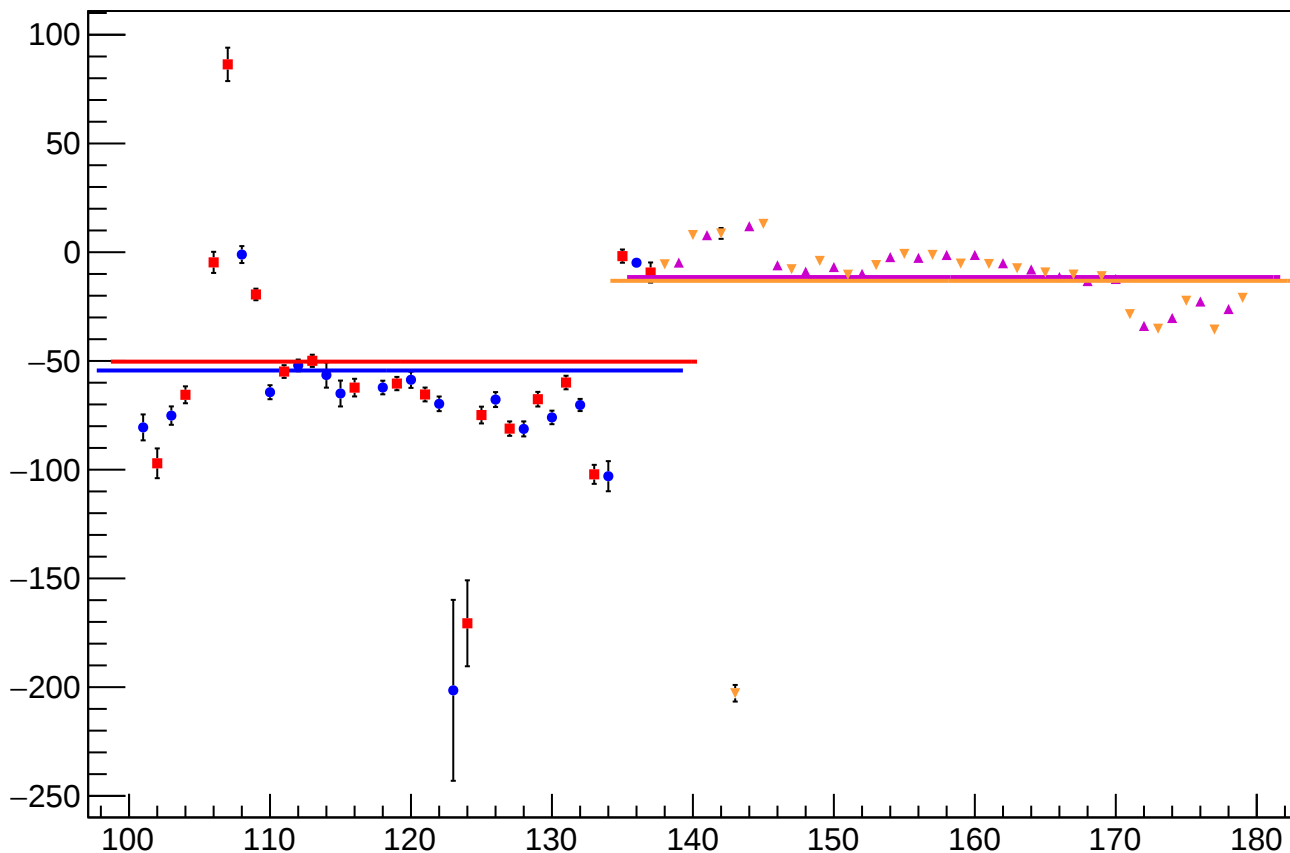
Right: 4.484 $\pm$ 0.332  $\chi^2$ /NDF: 465.0/34

In: 1.709 $\pm$ 0.206  $\chi^2$ /NDF:442.2/36

Out: 1.553 $\pm$ 0.201  $\chi^2$ /NDF:394.6/39

All: 1.629 $\pm$ 0.144  $\chi^2$ /NDF: 837.1/76

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-54.387 \pm 0.864$   $\chi^2/\text{NDF}: 1014.0/16$

Left Out:  $-13.155 \pm 0.292$   $\chi^2/\text{NDF}: 4177.0/21$

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}: 1319.3/17$

Left In:  $-11.419 \pm 0.298$   $\chi^2/\text{NDF}: 1380.7/19$

Left:  $-12.303 \pm 0.209$   $\chi^2/\text{NDF}: 5575.1/41$

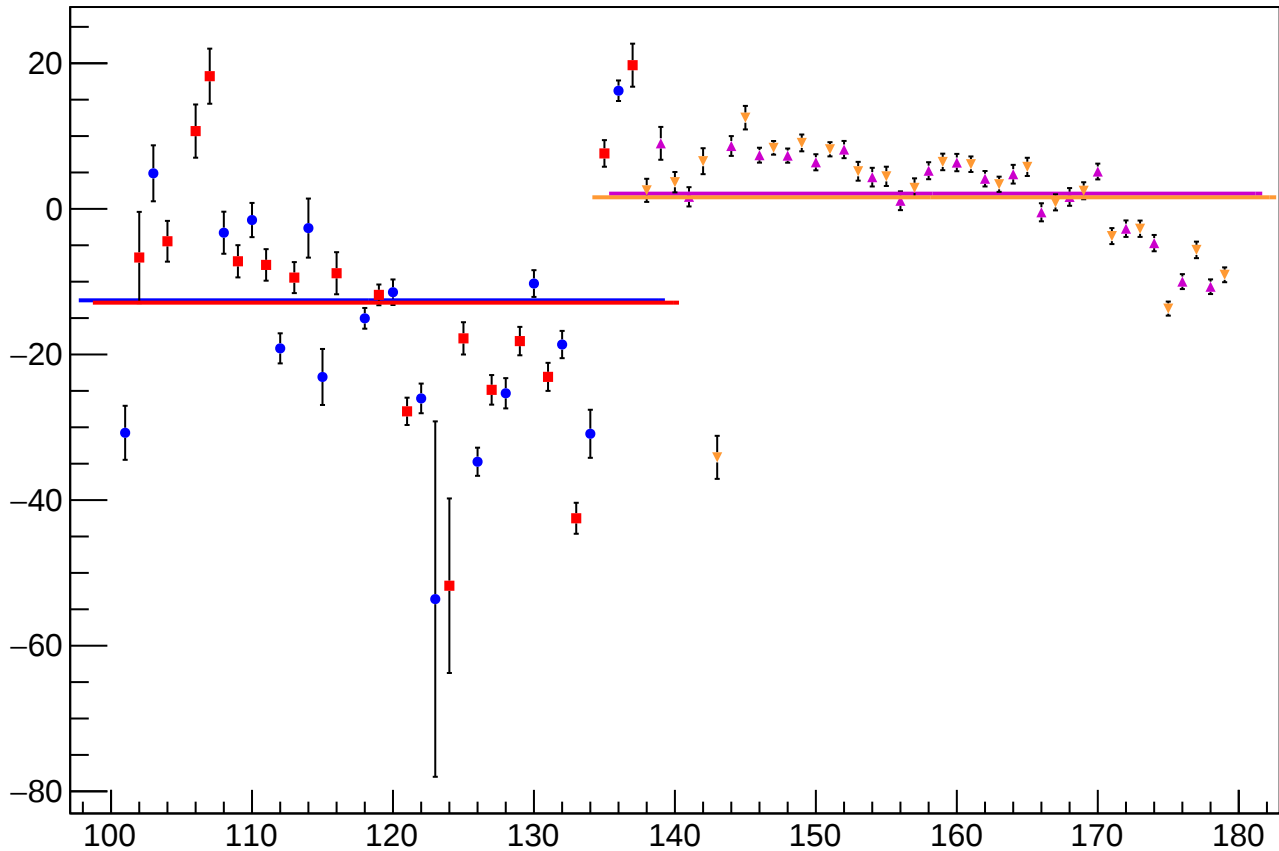
Right:  $-52.337 \pm 0.609$   $\chi^2/\text{NDF}: 2344.4/34$

In:  $-15.971 \pm 0.281$   $\chi^2/\text{NDF}: 4603.4/36$

Out:  $-17.016 \pm 0.277$   $\chi^2/\text{NDF}: 7176.1/39$

All:  $-16.503 \pm 0.197$   $\chi^2/\text{NDF}: 11786.5/76$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.561 \pm 0.531$   $\chi^2/\text{NDF}$ : 779.5/16

Left Out:  $1.589 \pm 0.253$   $\chi^2/\text{NDF}$ : 844.9/21

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

Left In:  $2.092 \pm 0.261$   $\chi^2/\text{NDF}$ : 527.8/19

Left:  $1.833 \pm 0.182$   $\chi^2/\text{NDF}$ : 1374.6/41

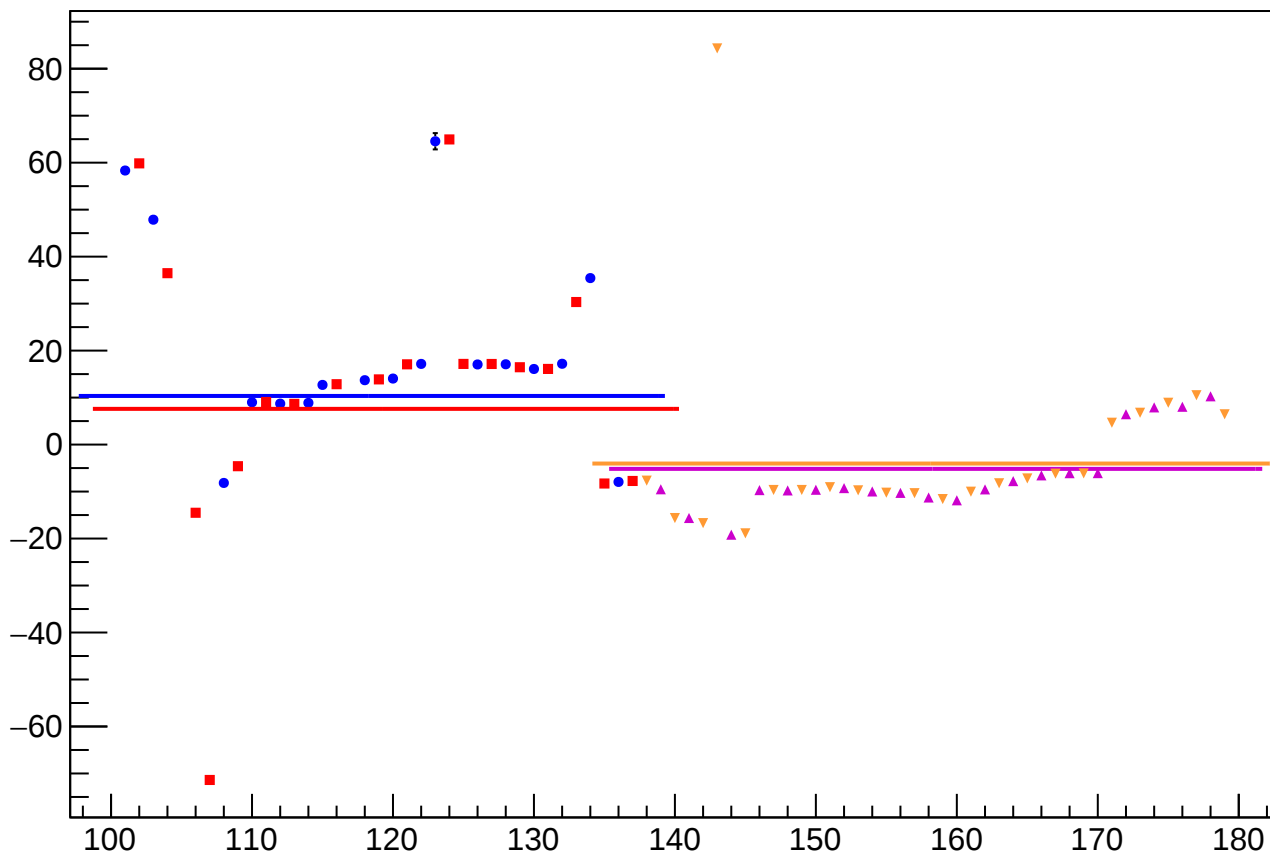
Right:  $-12.719 \pm 0.378$   $\chi^2/\text{NDF}$ : 1506.3/34

In:  $-0.756 \pm 0.234$   $\chi^2/\text{NDF}$ : 1919.7/36

Out:  $-1.032 \pm 0.229$   $\chi^2/\text{NDF}$ : 2163.3/39

All:  $-0.897 \pm 0.164$   $\chi^2/\text{NDF}$ : 4083.7/76

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 10.350+/-0.031  $\chi^2/\text{NDF}$ : 380878.9/16

Left Out: -4.036+/-0.012  $\chi^2/\text{NDF}$ : 847466.4/21

Right Out: 7.602+/-0.031  $\chi^2/\text{NDF}$ : 538460.3/17

Left In: -5.173+/-0.012  $\chi^2/\text{NDF}$ : 474504.0/19

Left: -4.599+/-0.008  $\chi^2/\text{NDF}$ : 1326675.9/41

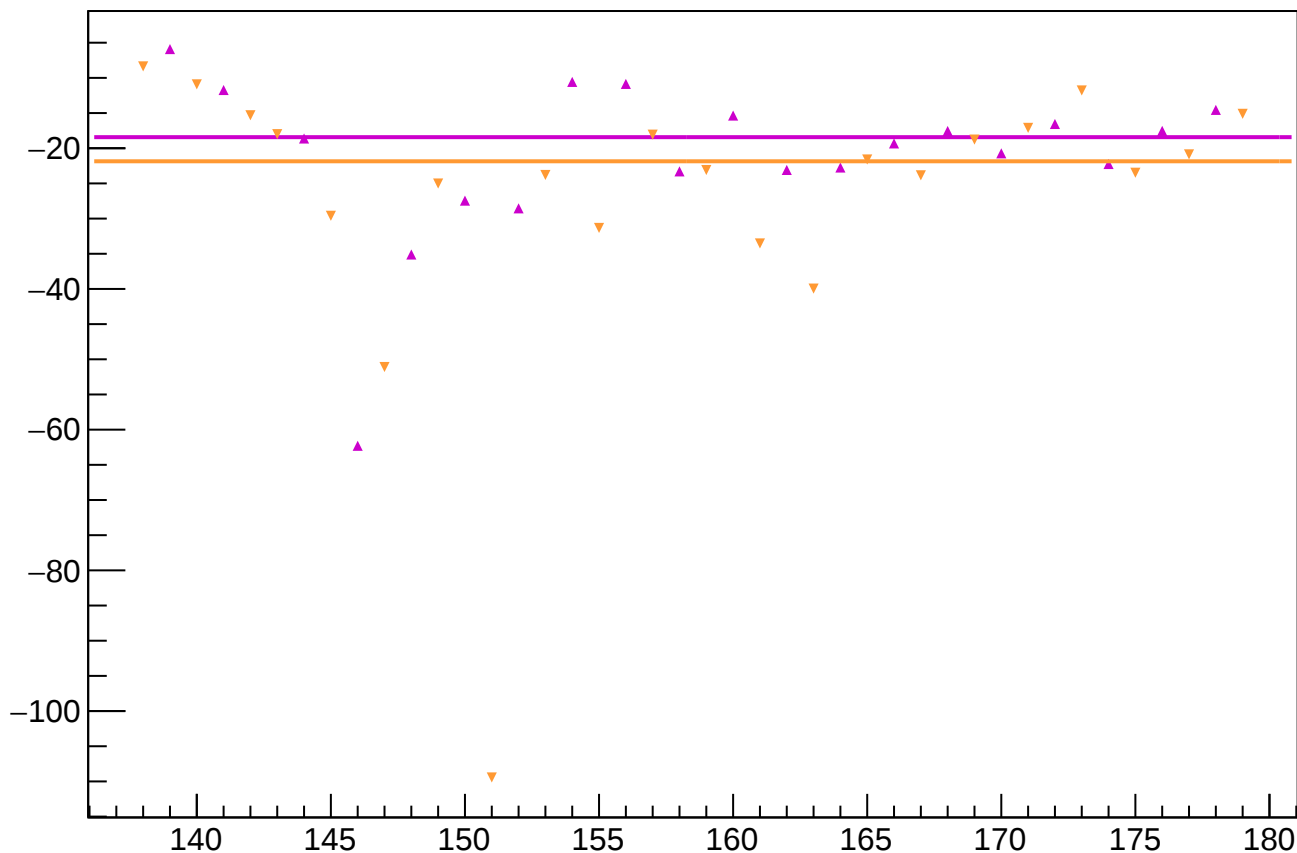
Right: 9.008+/-0.022  $\chi^2/\text{NDF}$ : 923283.8/34

In: -3.171+/-0.011  $\chi^2/\text{NDF}$ : 1079813.4/36

Out: -2.618+/-0.011  $\chi^2/\text{NDF}$ : 1507389.3/39

All: -2.893+/-0.008  $\chi^2/\text{NDF}$ : 2588475.3/76

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -21.856+/-0.046  $\chi^2/\text{NDF}$ : 65160.9/21

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

Left In: -18.426+/-0.043  $\chi^2/\text{NDF}$ : 39313.1/19

Left: -20.030+/-0.032  $\chi^2/\text{NDF}$ : 107400.4/41

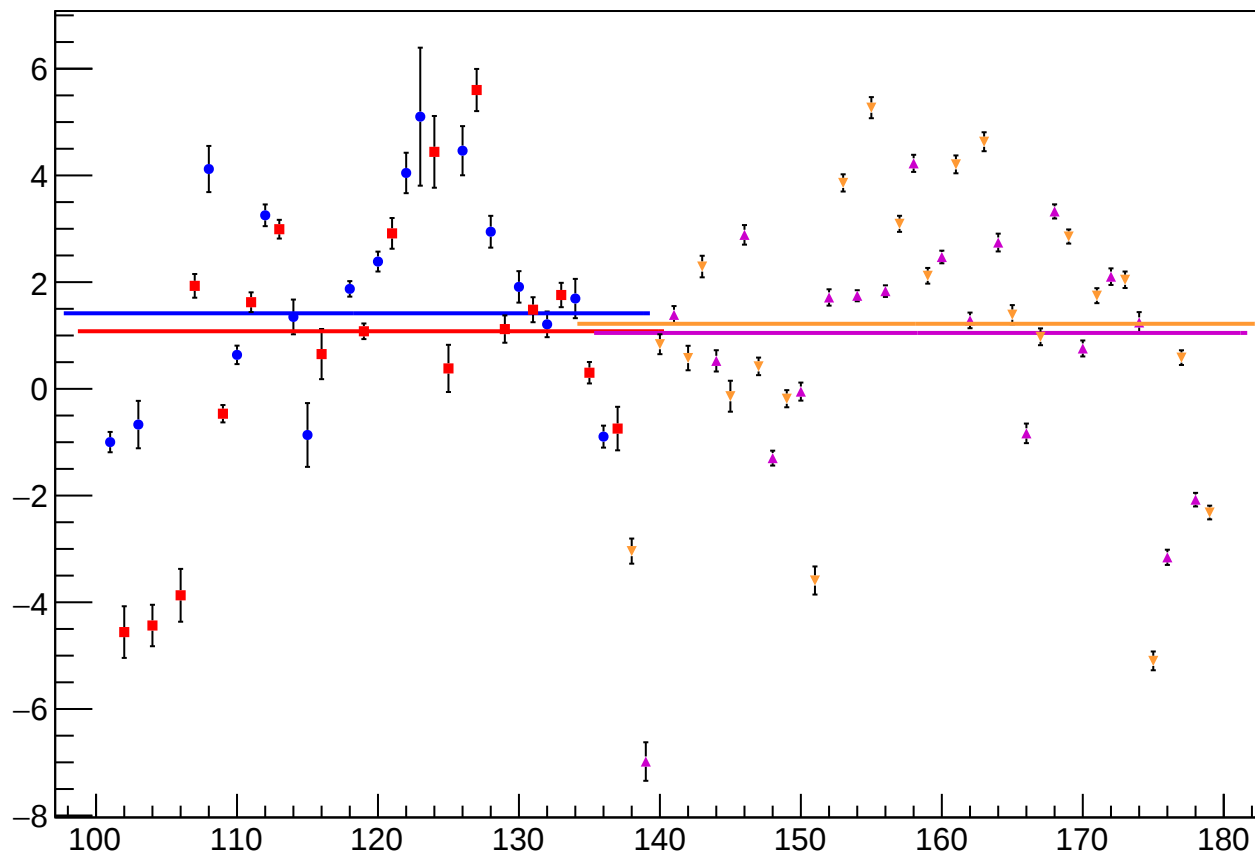
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.426+/-0.043  $\chi^2/\text{NDF}$ : 39313.1/19

Out: -21.856+/-0.046  $\chi^2/\text{NDF}$ : 65160.9/21

All: -20.030+/-0.032  $\chi^2/\text{NDF}$ : 107400.4/41

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.416 $\pm$ 0.061  $\chi^2$ /NDF: 631.2/16

Left Out: 1.219 $\pm$ 0.036  $\chi^2$ /NDF: 4652.9/21

Right Out: 1.080 $\pm$ 0.058  $\chi^2$ /NDF: 916.1/17

Left In: 1.048 $\pm$ 0.033  $\chi^2$ /NDF: 3609.5/19

Left: 1.127 $\pm$ 0.024  $\chi^2$ /NDF: 8274.7/41

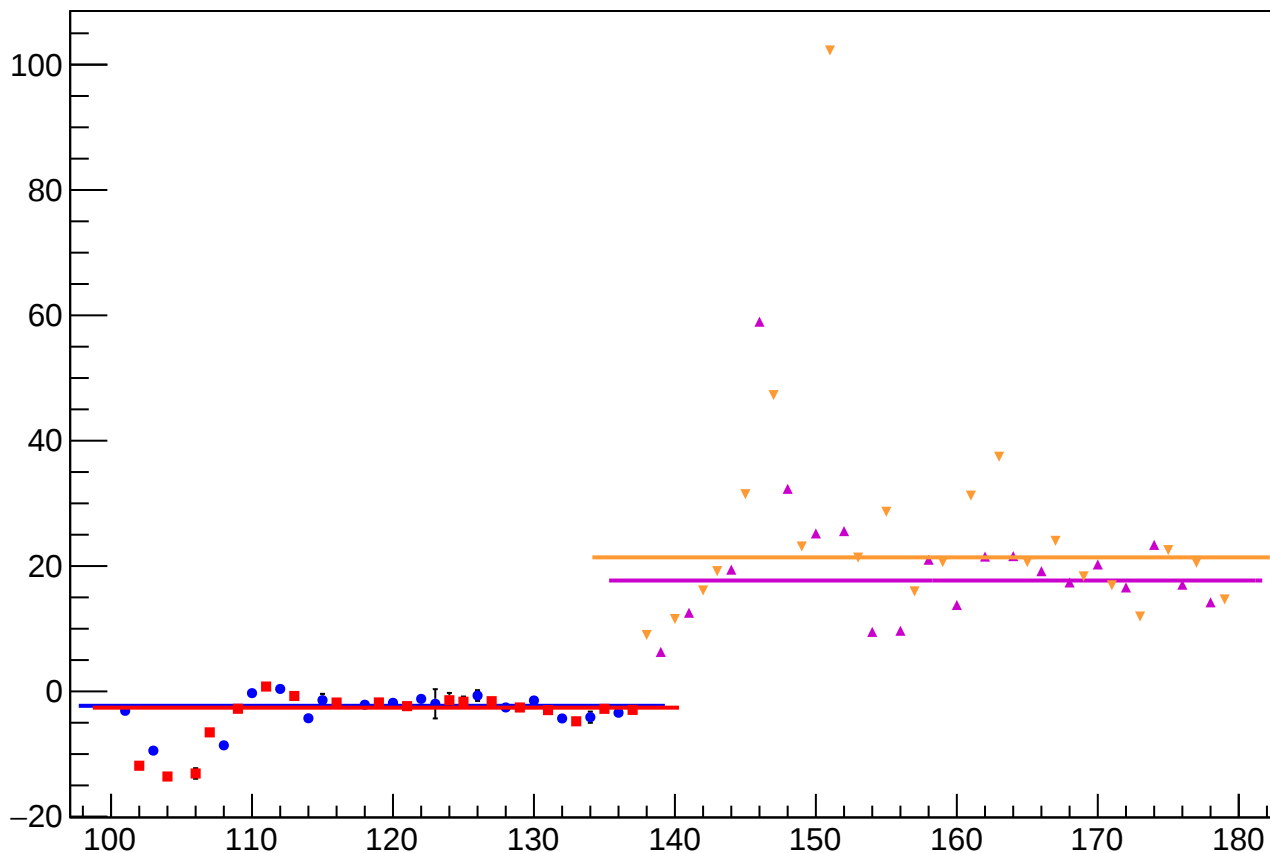
Right: 1.239 $\pm$ 0.042  $\chi^2$ /NDF: 1563.2/34

In: 1.132 $\pm$ 0.029  $\chi^2$ /NDF: 4268.7/36

Out: 1.181 $\pm$ 0.030  $\chi^2$ /NDF: 5573.2/39

All: 1.155 $\pm$ 0.021  $\chi^2$ /NDF: 9843.3/76

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.299 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.0/16

Left Out:  $21.386 \pm 0.046$   $\chi^2/\text{NDF}$ : 58390.0/21

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

Left In:  $17.691 \pm 0.043$   $\chi^2/\text{NDF}$ : 37189.7/19

Left:  $19.401 \pm 0.031$   $\chi^2/\text{NDF}$ : 99070.7/41

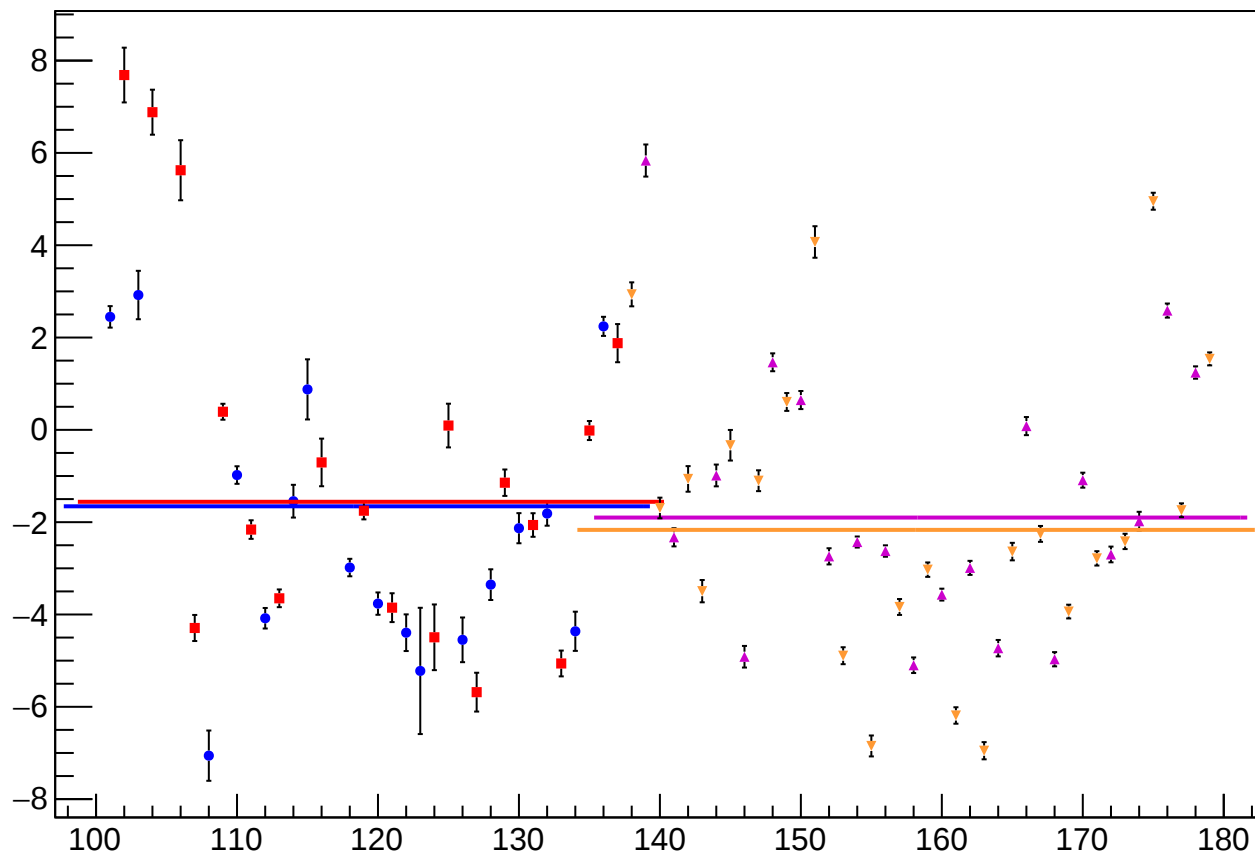
Right:  $-2.463 \pm 0.074$   $\chi^2/\text{NDF}$ : 1333.6/34

In:  $15.125 \pm 0.040$   $\chi^2/\text{NDF}$ : 65983.0/36

Out:  $17.172 \pm 0.042$   $\chi^2/\text{NDF}$ : 107377.2/39

All:  $16.100 \pm 0.029$   $\chi^2/\text{NDF}$ : 174626.4/76

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.656 \pm 0.070$   $\chi^2/\text{NDF}$ : 1271.1/16

Left Out:  $-2.167 \pm 0.040$   $\chi^2/\text{NDF}$ : 5332.4/21

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

Left In:  $-1.900 \pm 0.037$   $\chi^2/\text{NDF}$ : 4014.5/19

Left:  $-2.023 \pm 0.027$   $\chi^2/\text{NDF}$ : 9370.7/41

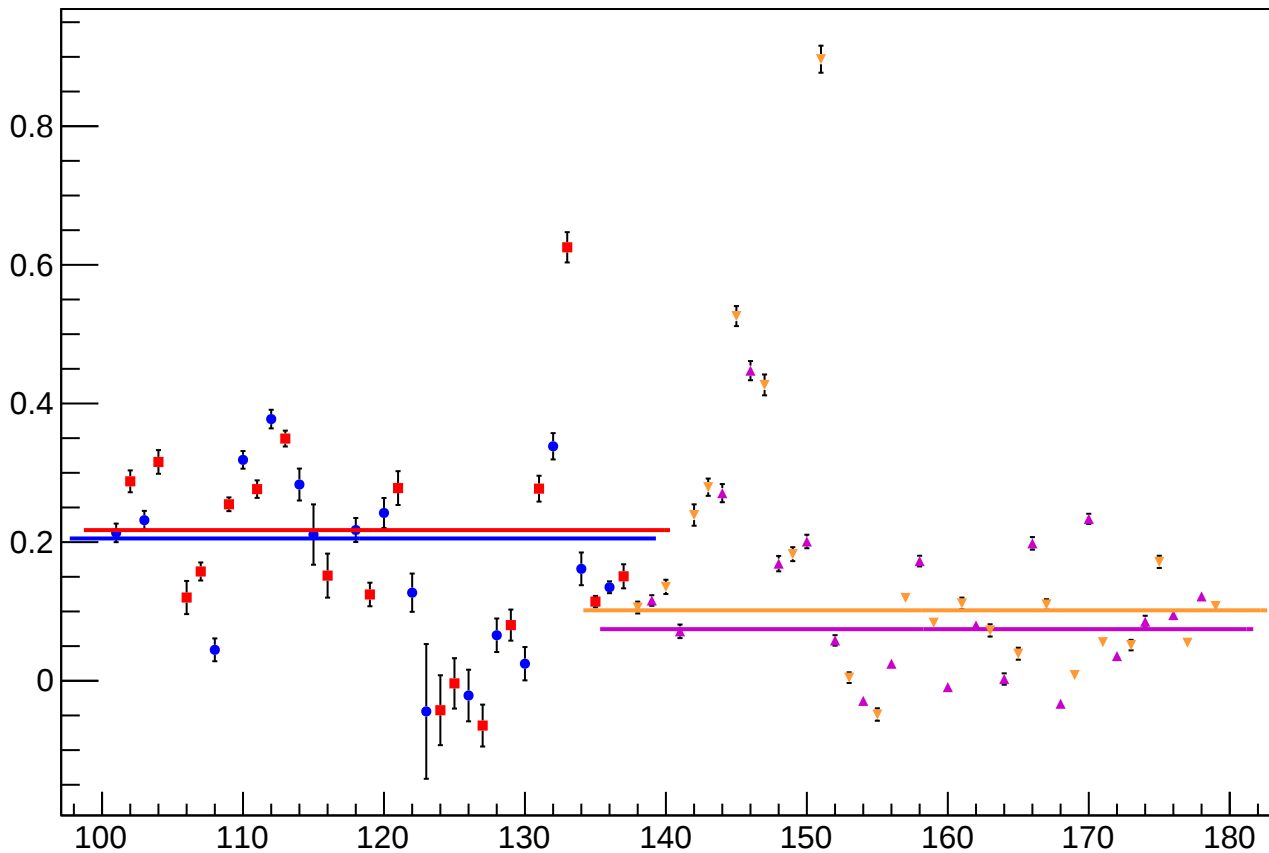
Right:  $-1.604 \pm 0.048$   $\chi^2/\text{NDF}$ : 2756.9/34

In:  $-1.847 \pm 0.033$   $\chi^2/\text{NDF}$ : 5295.0/36

Out:  $-2.002 \pm 0.034$   $\chi^2/\text{NDF}$ : 6879.6/39

All:  $-1.921 \pm 0.024$   $\chi^2/\text{NDF}$ : 12185.2/76

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.004$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $0.102 \pm 0.002$   $\chi^2/\text{NDF}$ : 4265.5/21

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

Left In:  $0.075 \pm 0.002$   $\chi^2/\text{NDF}$ : 3281.3/19

Left:  $0.087 \pm 0.001$   $\chi^2/\text{NDF}$ : 7672.6/41

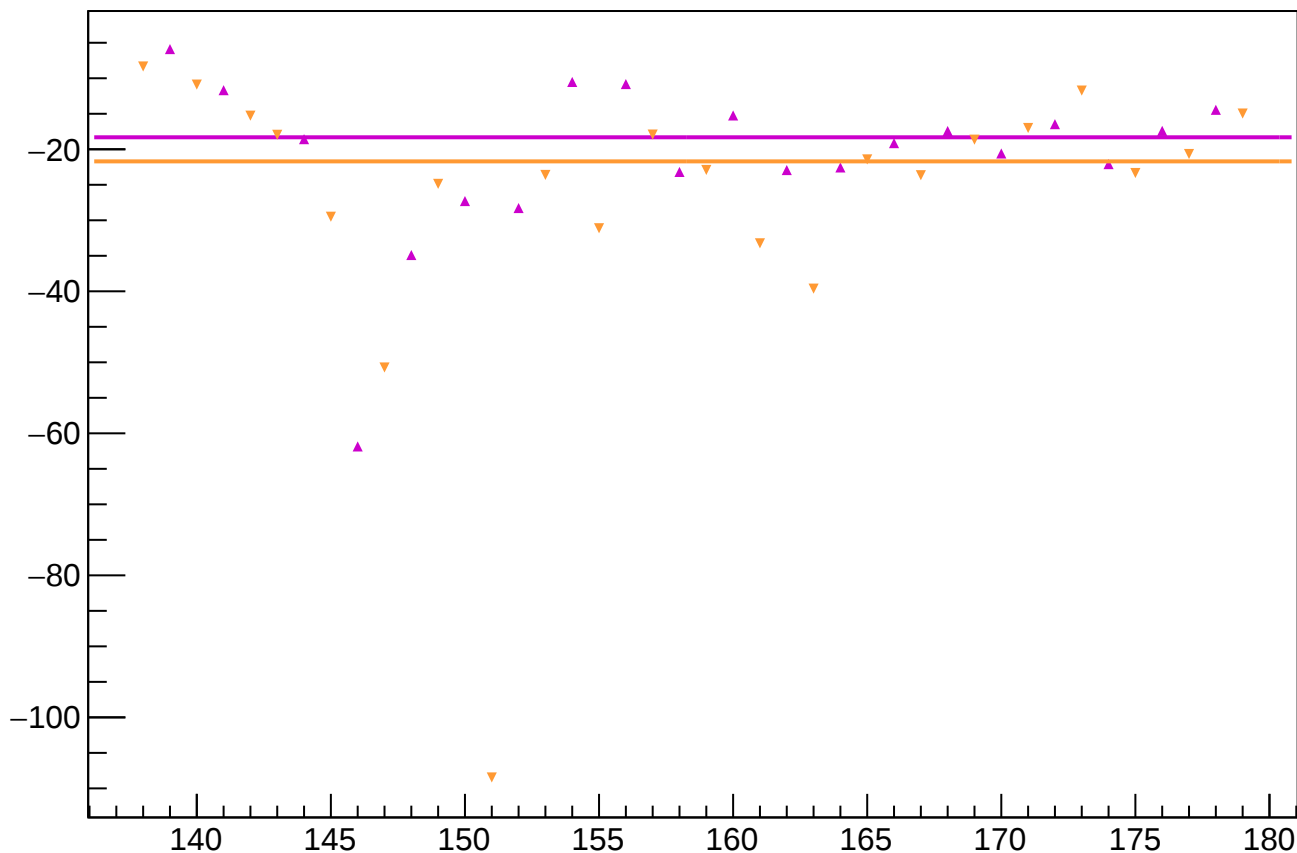
Right:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 1644.6/34

In:  $0.092 \pm 0.002$   $\chi^2/\text{NDF}$ : 4767.5/36

Out:  $0.124 \pm 0.002$   $\chi^2/\text{NDF}$ : 6073.0/39

All:  $0.107 \pm 0.001$   $\chi^2/\text{NDF}$ : 11045.7/76

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: -21.704+/-0.046  $\chi^2/\text{NDF}$ : 65025.3/21

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

Left In: -18.312+/-0.043  $\chi^2/\text{NDF}$ : 39235.9/19

Left: -19.899+/-0.031  $\chi^2/\text{NDF}$ : 107162.4/41

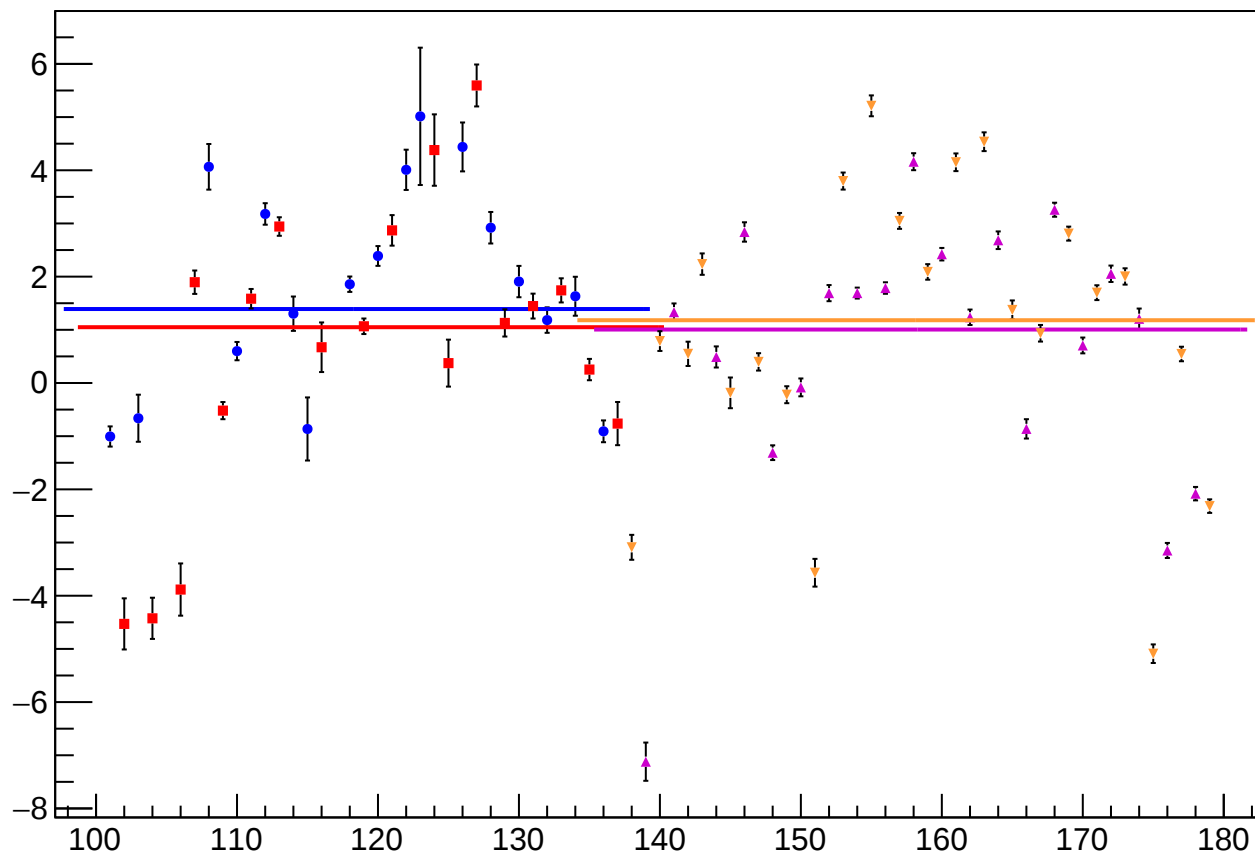
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.312+/-0.043  $\chi^2/\text{NDF}$ : 39235.9/19

Out: -21.704+/-0.046  $\chi^2/\text{NDF}$ : 65025.3/21

All: -19.899+/-0.031  $\chi^2/\text{NDF}$ : 107162.4/41

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.391 \pm 0.061$   $\chi^2/\text{NDF}$ : 629.2/16

Left Out:  $1.180 \pm 0.036$   $\chi^2/\text{NDF}$ : 4648.2/21

Right Out:  $1.049 \pm 0.058$   $\chi^2/\text{NDF}$ : 919.8/17

Left In:  $1.005 \pm 0.033$   $\chi^2/\text{NDF}$ : 3606.4/19

Left:  $1.086 \pm 0.024$   $\chi^2/\text{NDF}$ : 8267.7/41

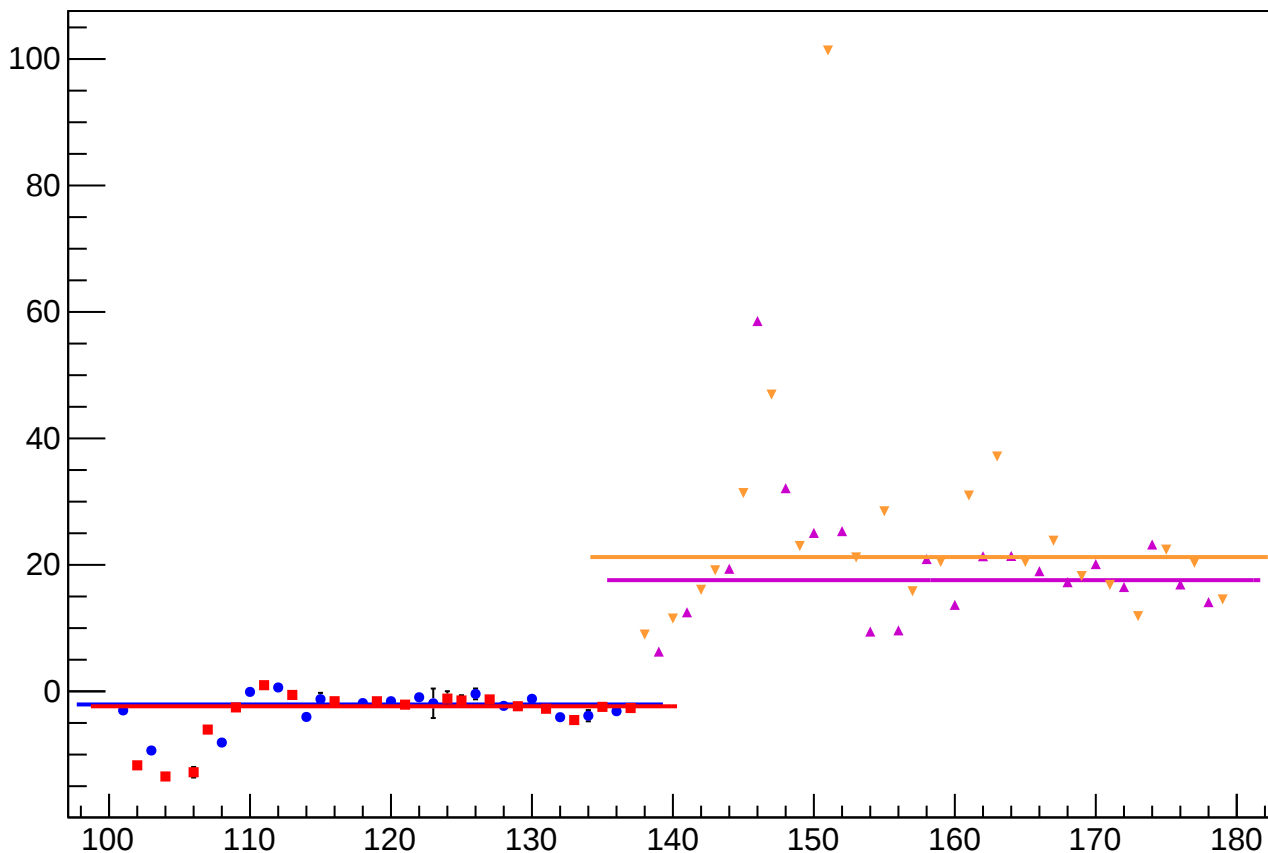
Right:  $1.211 \pm 0.042$   $\chi^2/\text{NDF}$ : 1565.5/34

In:  $1.093 \pm 0.029$   $\chi^2/\text{NDF}$ : 4266.7/36

Out:  $1.144 \pm 0.030$   $\chi^2/\text{NDF}$ : 5571.8/39

All:  $1.117 \pm 0.021$   $\chi^2/\text{NDF}$ : 9839.9/76

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.075 \pm 0.110$   $\chi^2/\text{NDF}$ : 442.3/16

Left Out:  $21.236 \pm 0.046$   $\chi^2/\text{NDF}$ : 58291.1/21

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

Left In:  $17.583 \pm 0.042$   $\chi^2/\text{NDF}$ : 37121.7/19

Left:  $19.274 \pm 0.031$   $\chi^2/\text{NDF}$ : 98873.0/41

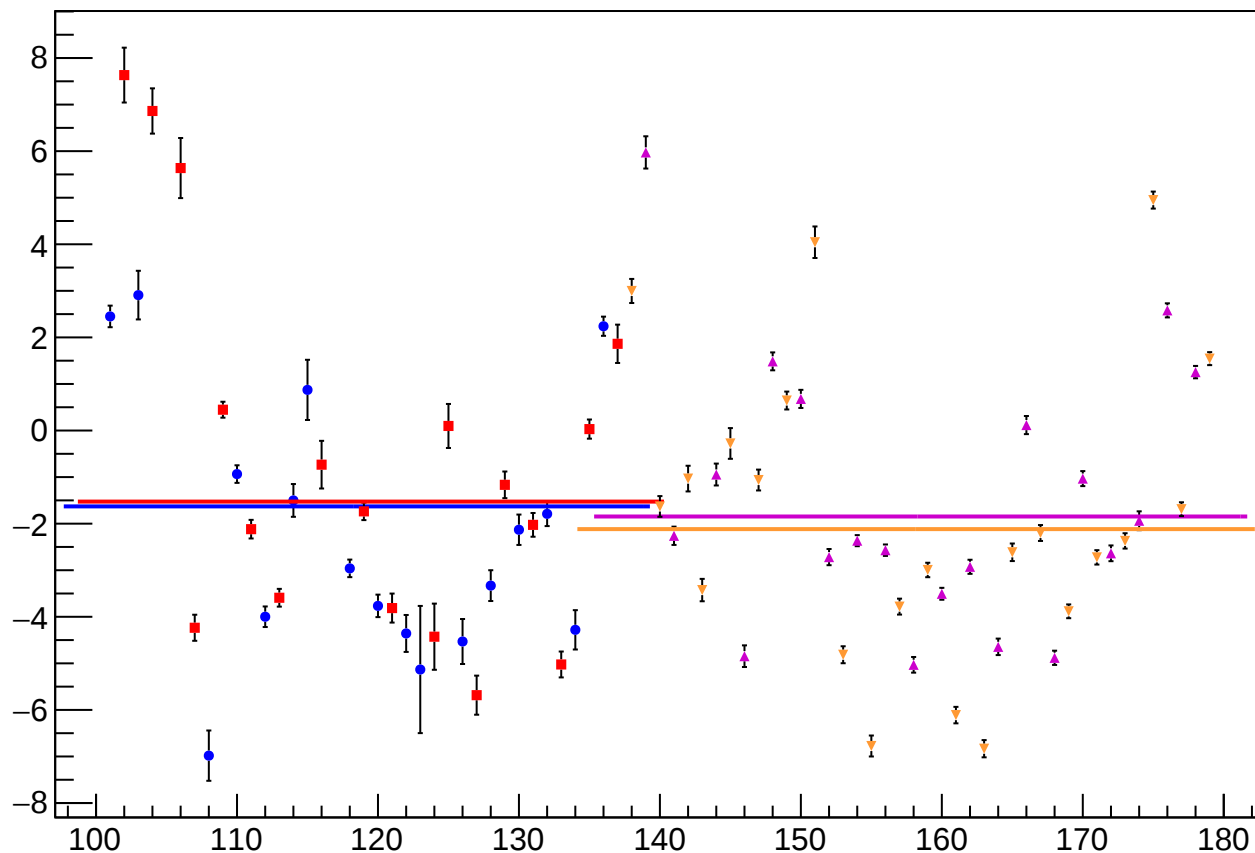
Right:  $-2.237 \pm 0.074$   $\chi^2/\text{NDF}$ : 1339.4/34

In:  $15.066 \pm 0.039$   $\chi^2/\text{NDF}$ : 65268.9/36

Out:  $17.100 \pm 0.041$   $\chi^2/\text{NDF}$ : 106307.4/39

All:  $16.036 \pm 0.029$   $\chi^2/\text{NDF}$ : 172843.6/76

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 1266.4/16

Left Out:  $-2.117 \pm 0.040$   $\chi^2/\text{NDF}$ : 5326.3/21

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

Left In:  $-1.846 \pm 0.037$   $\chi^2/\text{NDF}$ : 4009.9/19

Left:  $-1.971 \pm 0.027$   $\chi^2/\text{NDF}$ : 9361.1/41

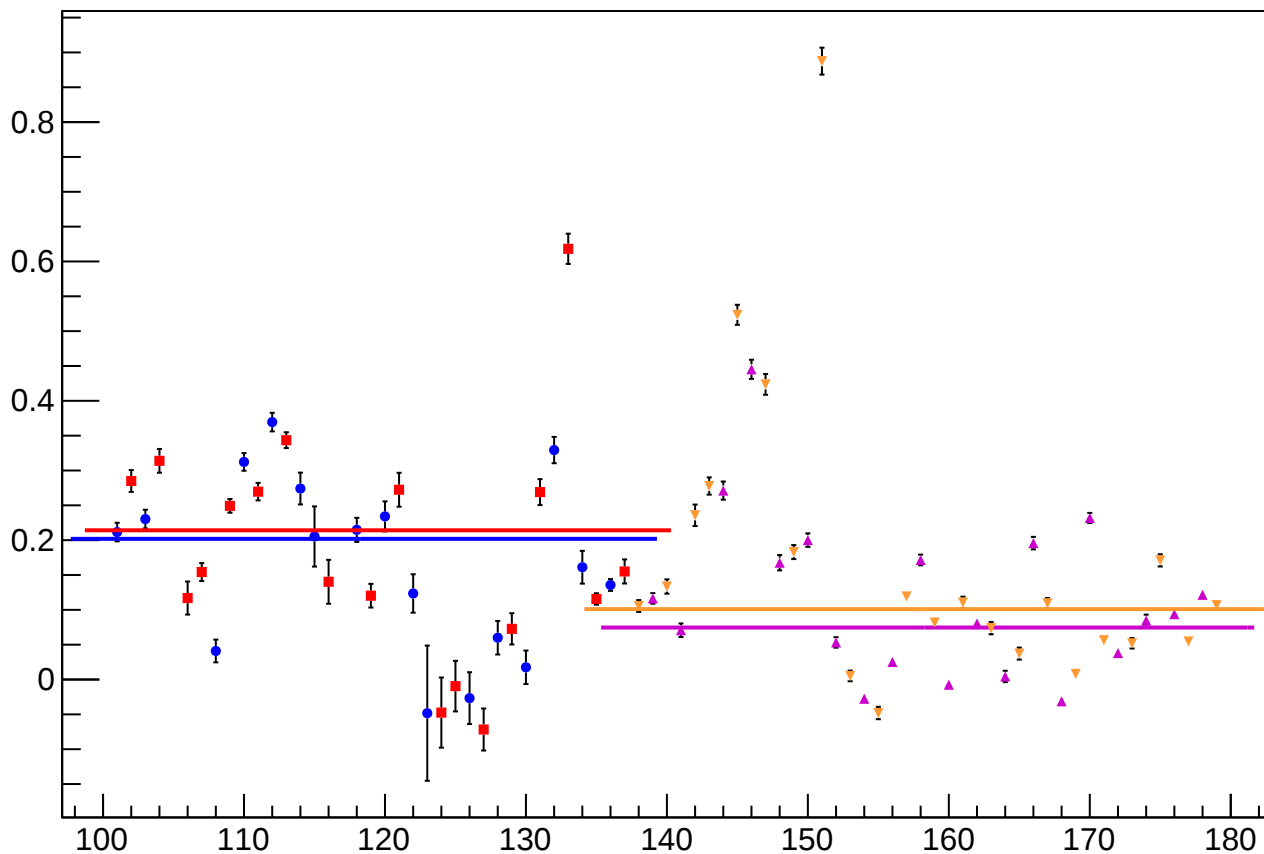
Right:  $-1.574 \pm 0.048$   $\chi^2/\text{NDF}$ : 2755.7/34

In:  $-1.799 \pm 0.033$   $\chi^2/\text{NDF}$ : 5283.7/36

Out:  $-1.957 \pm 0.034$   $\chi^2/\text{NDF}$ : 6874.1/39

All:  $-1.875 \pm 0.024$   $\chi^2/\text{NDF}$ : 12169.1/76

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.202 \pm 0.004$   $\chi^2/\text{NDF}$ : 604.6/16

Left Out:  $0.101 \pm 0.002$   $\chi^2/\text{NDF}$ : 4257.7/21

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1001.6/17

Left In:  $0.075 \pm 0.002$   $\chi^2/\text{NDF}$ : 3253.7/19

Left:  $0.087 \pm 0.001$   $\chi^2/\text{NDF}$ : 7632.4/41

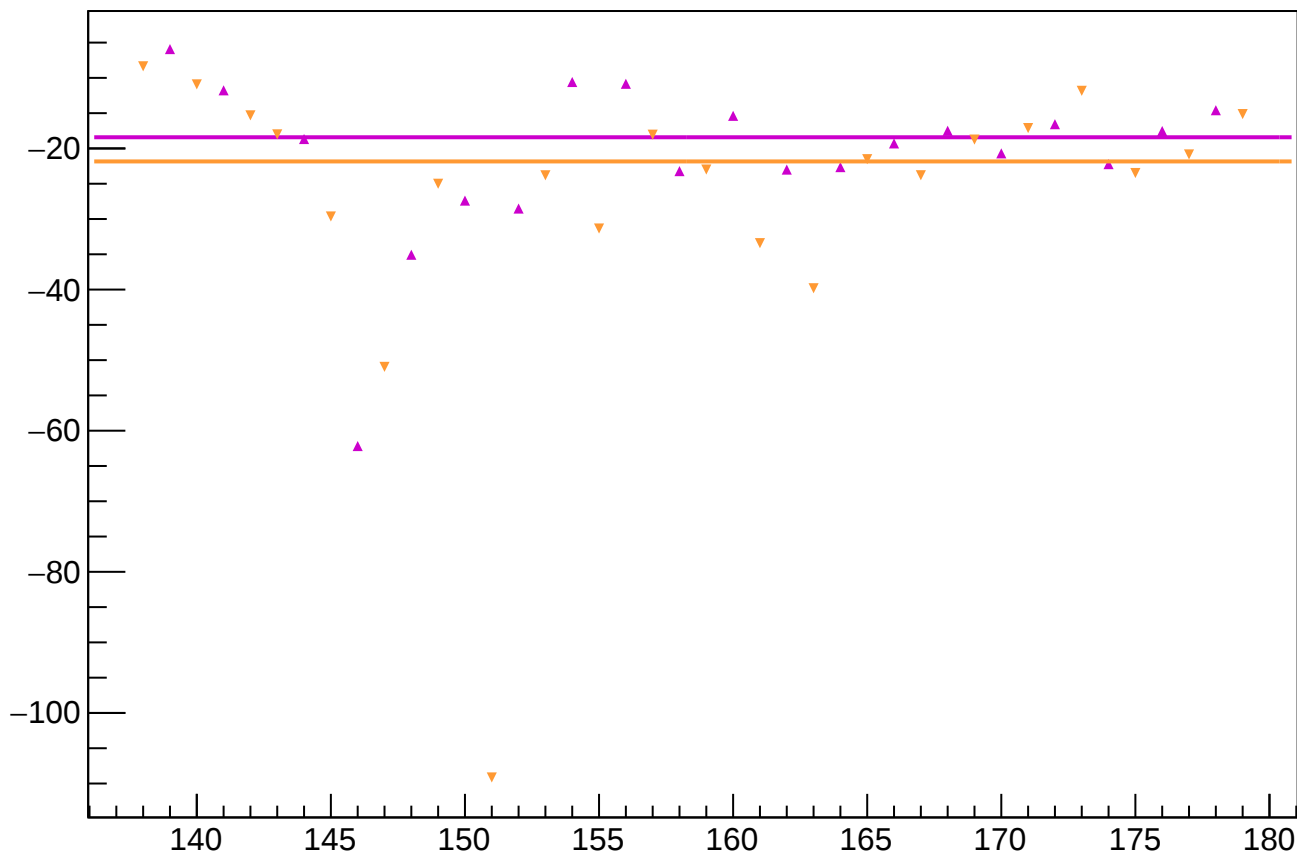
Right:  $0.209 \pm 0.003$   $\chi^2/\text{NDF}$ : 1611.2/34

In:  $0.092 \pm 0.002$   $\chi^2/\text{NDF}$ : 4686.4/36

Out:  $0.122 \pm 0.002$   $\chi^2/\text{NDF}$ : 6020.4/39

All:  $0.106 \pm 0.001$   $\chi^2/\text{NDF}$ : 10905.0/76

reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -21.841+/-0.046  $\chi^2/\text{NDF}$ : 65077.0/21

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

Left In: -18.416+/-0.043  $\chi^2/\text{NDF}$ : 39266.4/19

Left: -20.018+/-0.032  $\chi^2/\text{NDF}$ : 107275.6/41

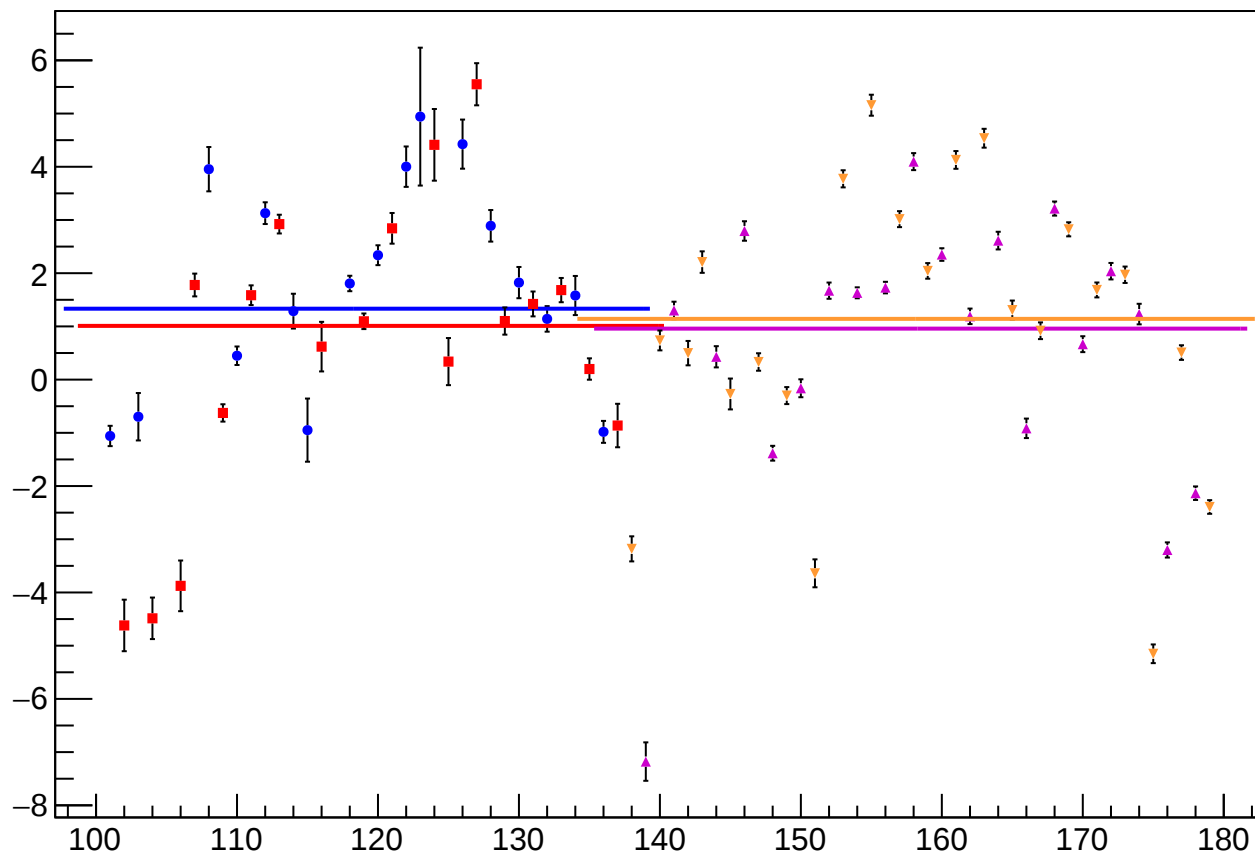
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.416+/-0.043  $\chi^2/\text{NDF}$ : 39266.4/19

Out: -21.841+/-0.046  $\chi^2/\text{NDF}$ : 65077.0/21

All: -20.018+/-0.032  $\chi^2/\text{NDF}$ : 107275.6/41

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.333 \pm 0.061$   $\chi^2/\text{NDF}$ : 634.6/16

Left Out:  $1.142 \pm 0.036$   $\chi^2/\text{NDF}$ : 4675.0/21

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}$ : 930.3/17

Left In:  $0.958 \pm 0.033$   $\chi^2/\text{NDF}$ : 3579.9/19

Left:  $1.043 \pm 0.024$   $\chi^2/\text{NDF}$ : 8269.1/41

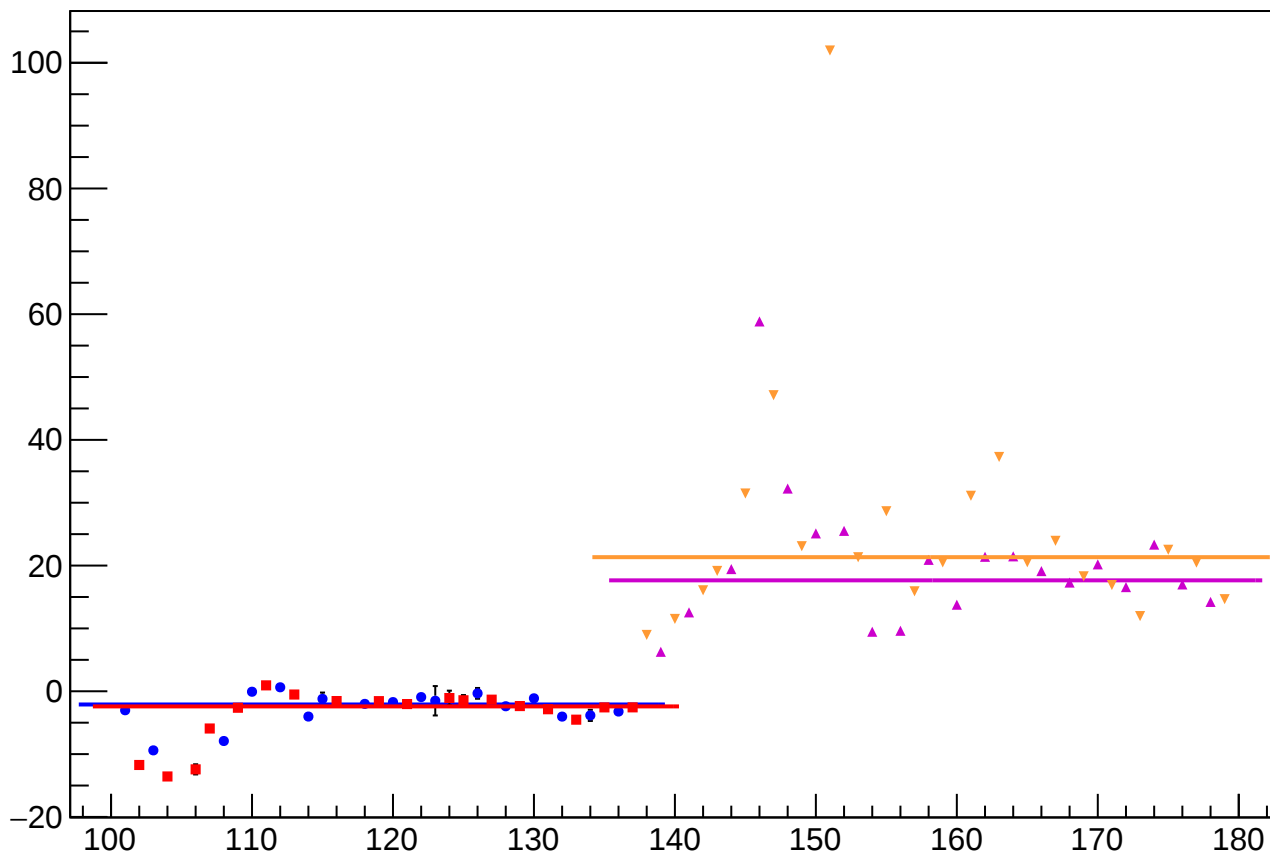
Right:  $1.163 \pm 0.042$   $\chi^2/\text{NDF}$ : 1579.5/34

In:  $1.043 \pm 0.029$   $\chi^2/\text{NDF}$ : 4243.5/36

Out:  $1.105 \pm 0.030$   $\chi^2/\text{NDF}$ : 5609.0/39

All:  $1.073 \pm 0.021$   $\chi^2/\text{NDF}$ : 9854.7/76

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.104 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.3/16

Left Out:  $21.337 \pm 0.046$   $\chi^2/\text{NDF}$ : 58331.5/21

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

Left In:  $17.648 \pm 0.042$   $\chi^2/\text{NDF}$ : 37169.4/19

Left:  $19.355 \pm 0.031$   $\chi^2/\text{NDF}$ : 98997.9/41

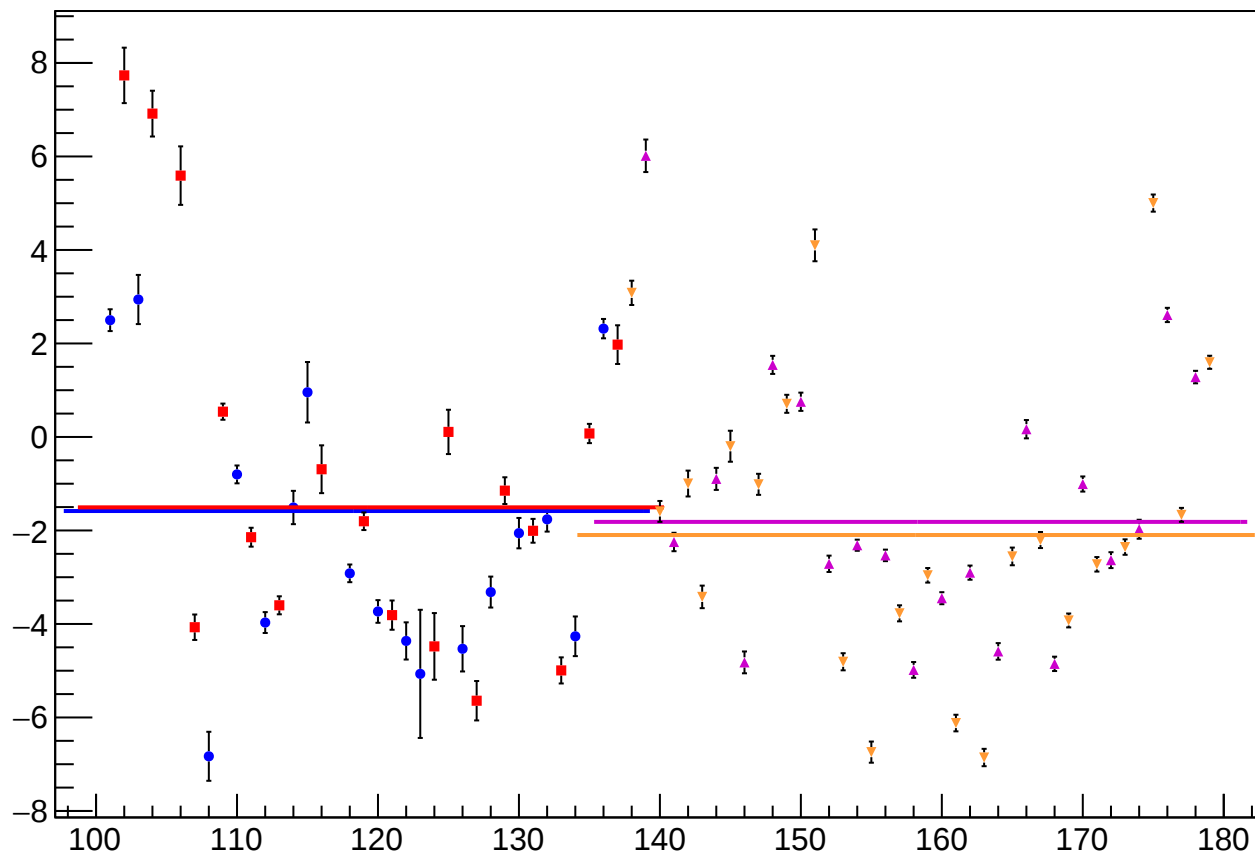
Right:  $-2.274 \pm 0.074$   $\chi^2/\text{NDF}$ : 1331.4/34

In:  $15.125 \pm 0.040$   $\chi^2/\text{NDF}$ : 65290.8/36

Out:  $17.178 \pm 0.042$   $\chi^2/\text{NDF}$ : 106456.8/39

All:  $16.103 \pm 0.029$   $\chi^2/\text{NDF}$ : 173027.2/76

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-2.097 \pm 0.040$   $\chi^2/\text{NDF}$ : 5358.6/21

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

Left In:  $-1.817 \pm 0.037$   $\chi^2/\text{NDF}$ : 3975.4/19

Left:  $-1.946 \pm 0.027$   $\chi^2/\text{NDF}$ : 9360.5/41

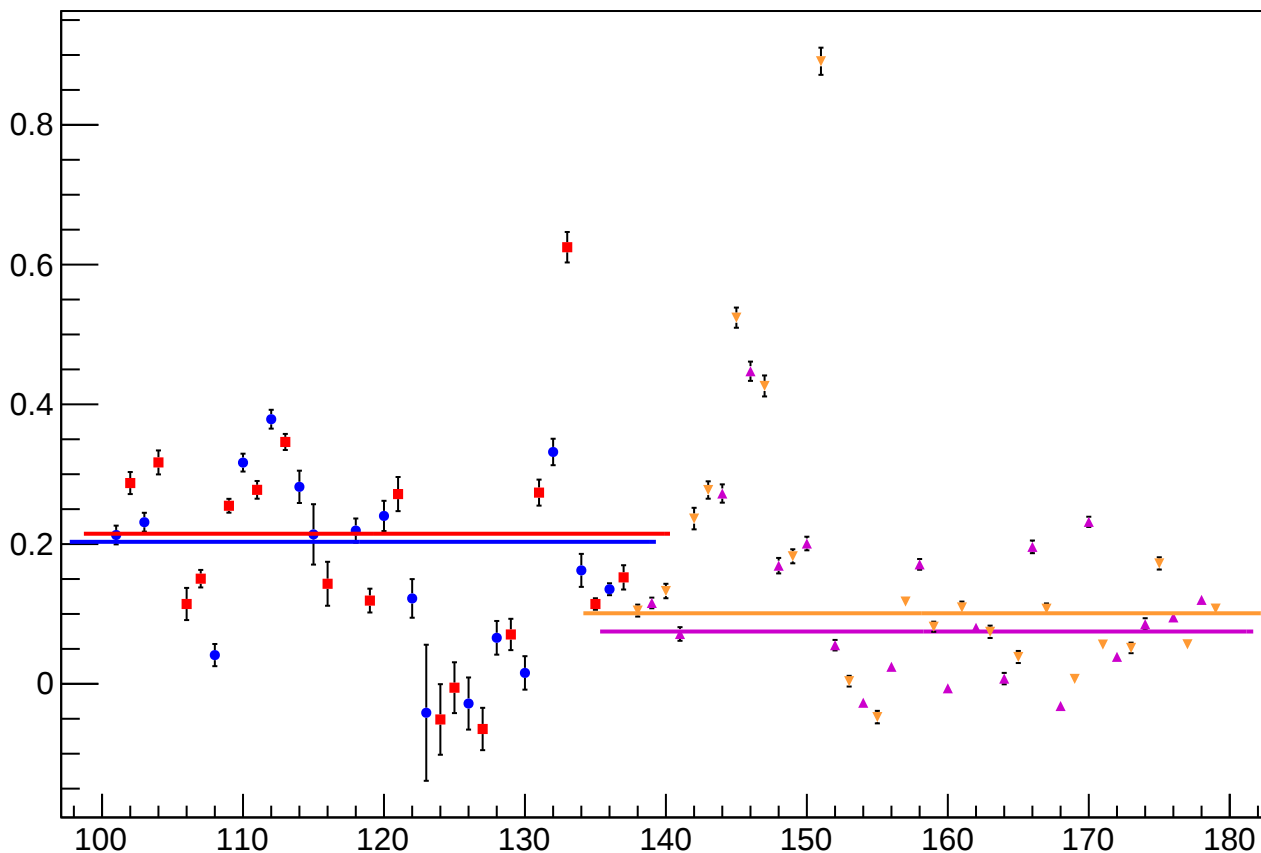
Right:  $-1.542 \pm 0.048$   $\chi^2/\text{NDF}$ : 2772.7/34

In:  $-1.766 \pm 0.033$   $\chi^2/\text{NDF}$ : 5256.0/36

Out:  $-1.937 \pm 0.034$   $\chi^2/\text{NDF}$ : 6917.7/39

All:  $-1.848 \pm 0.024$   $\chi^2/\text{NDF}$ : 12186.8/76

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004  $\chi^2$ /NDF: 632.8/16

Left Out: 0.101 $\pm$ 0.002  $\chi^2$ /NDF:4242.7/21

Right Out: 0.215 $\pm$ 0.004  $\chi^2$ /NDF: 1033.0/17

Left In: 0.075 $\pm$ 0.002  $\chi^2$ /NDF:3228.4/19

Left: 0.087 $\pm$ 0.001  $\chi^2$ /NDF: 7588.1/41

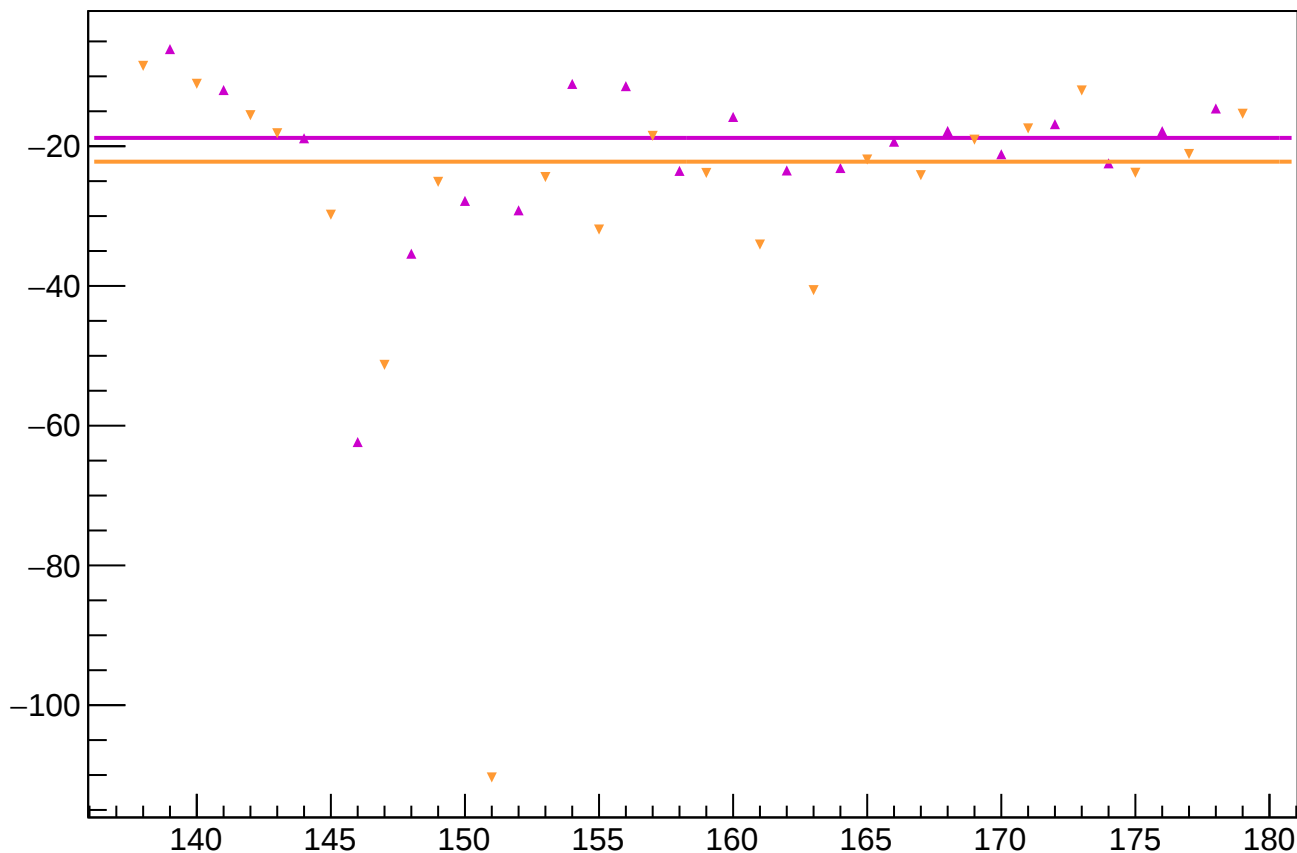
Right: 0.210 $\pm$ 0.003  $\chi^2$ /NDF: 1670.1/34

In: 0.092 $\pm$ 0.002  $\chi^2$ /NDF:4697.6/36

Out: 0.123 $\pm$ 0.002  $\chi^2$ /NDF:6042.9/39

All: 0.106 $\pm$ 0.001  $\chi^2$ /NDF: 10933.9/76

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: -22.214+/-0.047  $\chi^2/\text{NDF}$ : 64962.2/21

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

Left In: -18.812+/-0.044  $\chi^2/\text{NDF}$ : 38296.3/19

Left: -20.408+/-0.032  $\chi^2/\text{NDF}$ : 106032.6/41

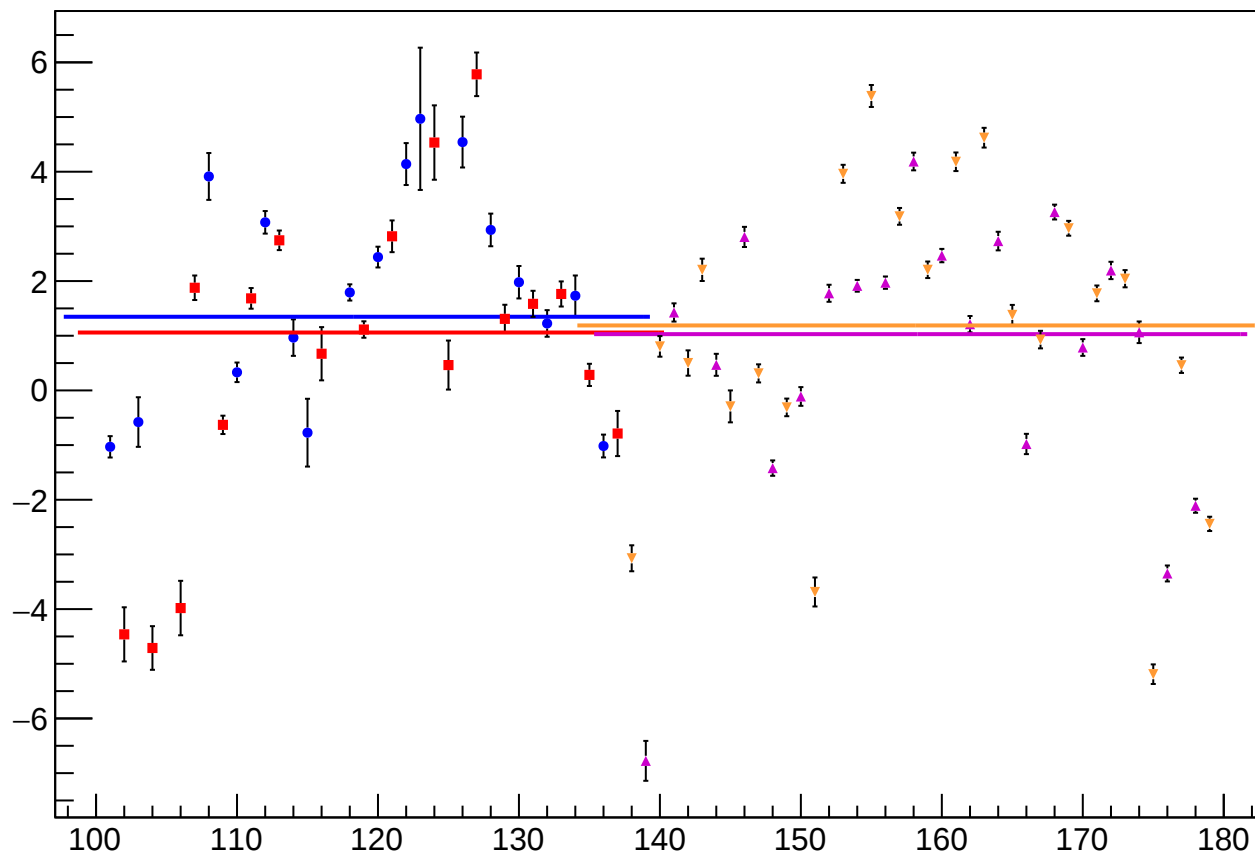
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.812+/-0.044  $\chi^2/\text{NDF}$ : 38296.3/19

Out: -22.214+/-0.047  $\chi^2/\text{NDF}$ : 64962.2/21

All: -20.408+/-0.032  $\chi^2/\text{NDF}$ : 106032.6/41

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.347 \pm 0.062$   $\chi^2/\text{NDF}$ : 630.1/16

Left Out:  $1.188 \pm 0.036$   $\chi^2/\text{NDF}$ : 4728.4/21

Right Out:  $1.059 \pm 0.059$   $\chi^2/\text{NDF}$ : 905.3/17

Left In:  $1.029 \pm 0.034$   $\chi^2/\text{NDF}$ : 3631.5/19

Left:  $1.103 \pm 0.025$   $\chi^2/\text{NDF}$ : 8370.1/41

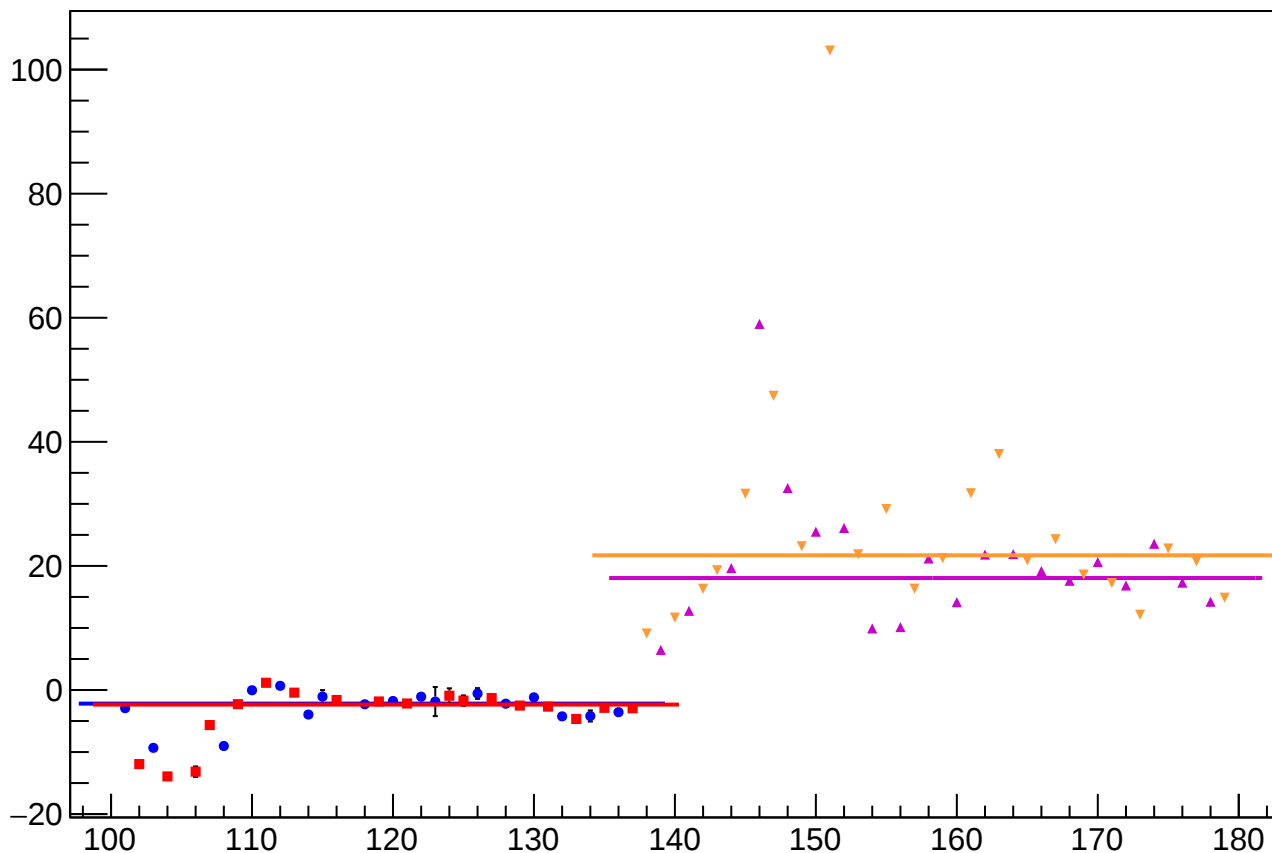
Right:  $1.196 \pm 0.043$   $\chi^2/\text{NDF}$ : 1546.6/34

In:  $1.102 \pm 0.030$   $\chi^2/\text{NDF}$ : 4281.7/36

Out:  $1.153 \pm 0.031$   $\chi^2/\text{NDF}$ : 5637.1/39

All:  $1.126 \pm 0.021$   $\chi^2/\text{NDF}$ : 9920.3/76

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.194 \pm 0.113$   $\chi^2/\text{NDF}: 463.5/16$

Left Out:  $21.714 \pm 0.047$   $\chi^2/\text{NDF}: 58112.9/21$

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$

Left In:  $18.049 \pm 0.043$   $\chi^2/\text{NDF}: 36034.1/19$

Left:  $19.750 \pm 0.032$   $\chi^2/\text{NDF}: 97454.7/41$

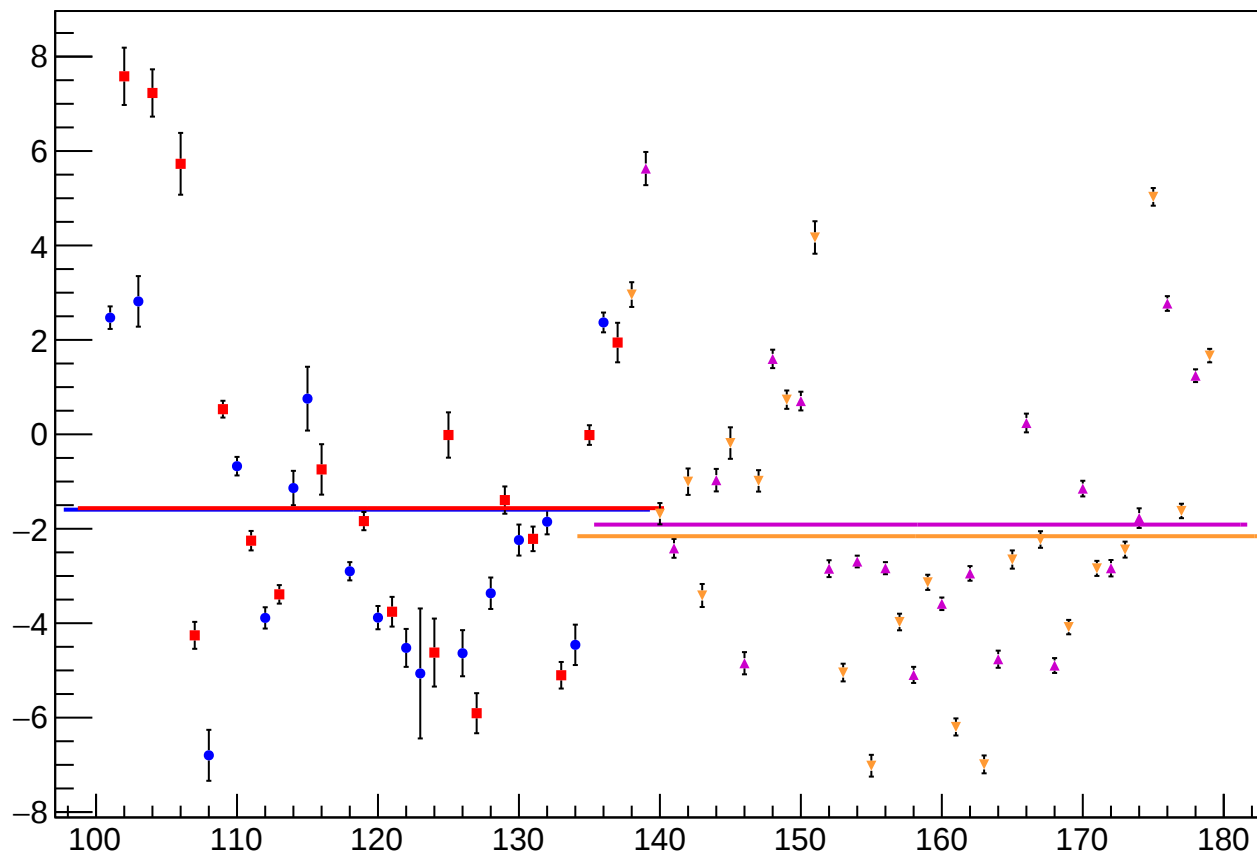
Right:  $-2.280 \pm 0.075$   $\chi^2/\text{NDF}: 1373.0/34$

In:  $15.439 \pm 0.041$   $\chi^2/\text{NDF}: 64525.3/36$

Out:  $17.507 \pm 0.042$   $\chi^2/\text{NDF}: 105550.2/39$

All:  $16.427 \pm 0.029$   $\chi^2/\text{NDF}: 171319.9/76$

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.595 \pm 0.072$   $\chi^2/\text{NDF}$ : 1255.4/16

Left Out:  $-2.158 \pm 0.041$   $\chi^2/\text{NDF}$ : 5415.0/21

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

Left In:  $-1.912 \pm 0.038$   $\chi^2/\text{NDF}$ : 4020.8/19

Left:  $-2.026 \pm 0.028$   $\chi^2/\text{NDF}$ : 9455.2/41

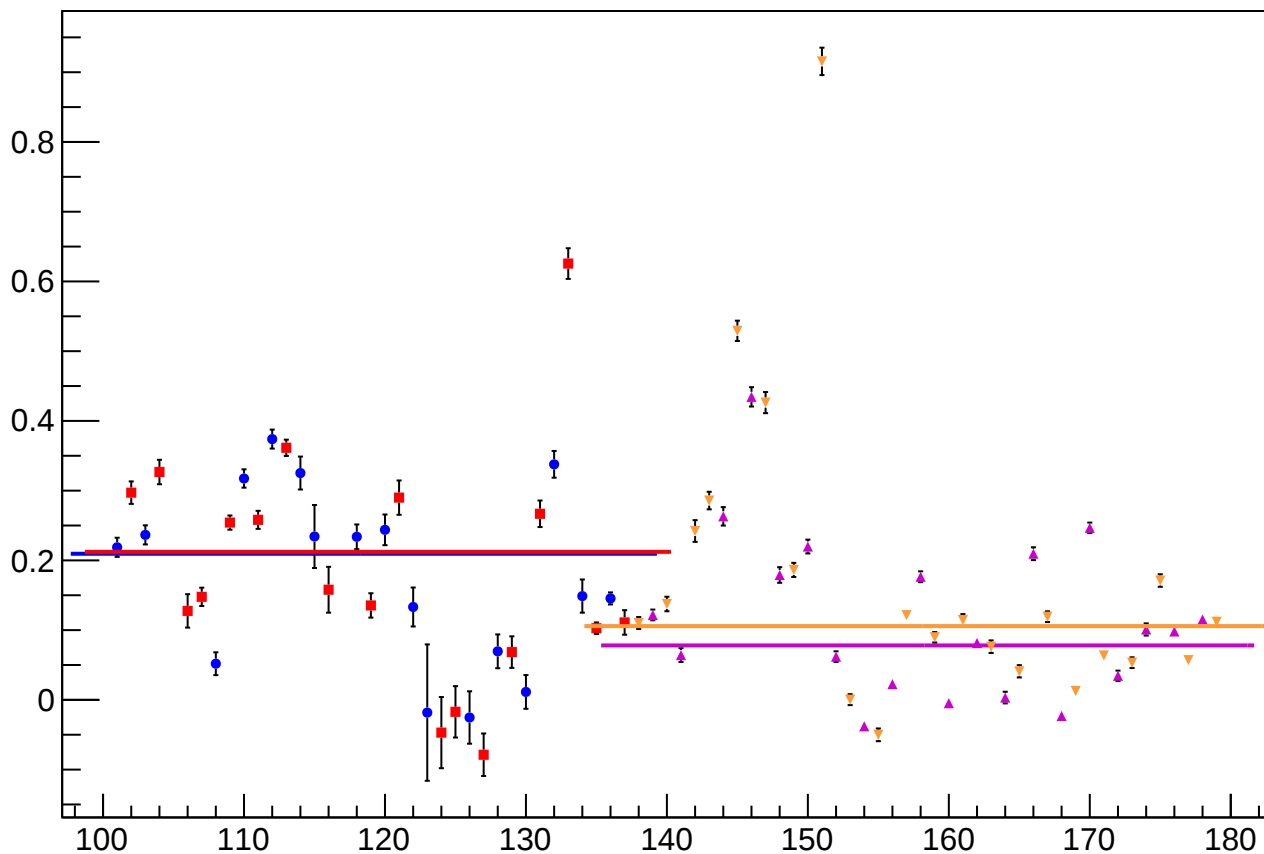
Right:  $-1.578 \pm 0.049$   $\chi^2/\text{NDF}$ : 2717.4/34

In:  $-1.843 \pm 0.034$   $\chi^2/\text{NDF}$ : 5291.4/36

Out:  $-1.997 \pm 0.035$   $\chi^2/\text{NDF}$ : 6934.3/39

All:  $-1.917 \pm 0.024$   $\chi^2/\text{NDF}$ : 12235.8/76

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.210 $\pm$ 0.004  $\chi^2$ /NDF: 597.7/16

Left Out: 0.106 $\pm$ 0.002  $\chi^2$ /NDF: 4270.7/21

Right Out: 0.212 $\pm$ 0.004  $\chi^2$ /NDF: 1096.9/17

Left In: 0.078 $\pm$ 0.002  $\chi^2$ /NDF: 3306.6/19

Left: 0.091 $\pm$ 0.001  $\chi^2$ /NDF: 7703.5/41

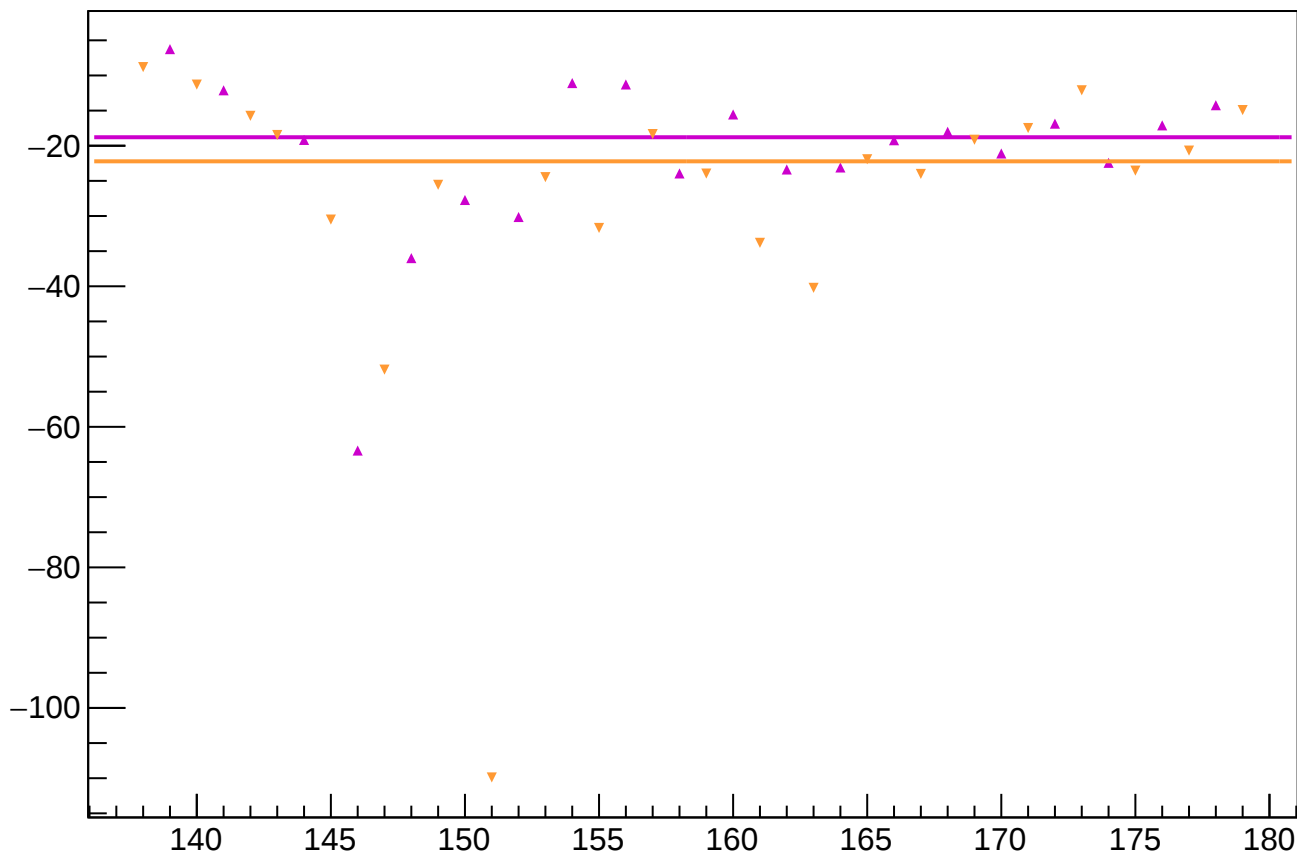
Right: 0.211 $\pm$ 0.003  $\chi^2$ /NDF: 1694.9/34

In: 0.096 $\pm$ 0.002  $\chi^2$ /NDF: 4749.8/36

Out: 0.126 $\pm$ 0.002  $\chi^2$ /NDF: 6012.0/39

All: 0.110 $\pm$ 0.001  $\chi^2$ /NDF: 10941.9/76

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: -22.218+/-0.047  $\chi^2/\text{NDF}$ : 64202.6/21

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

Left In: -18.791+/-0.045  $\chi^2/\text{NDF}$ : 38863.4/19

Left: -20.400+/-0.032  $\chi^2/\text{NDF}$ : 105847.2/41

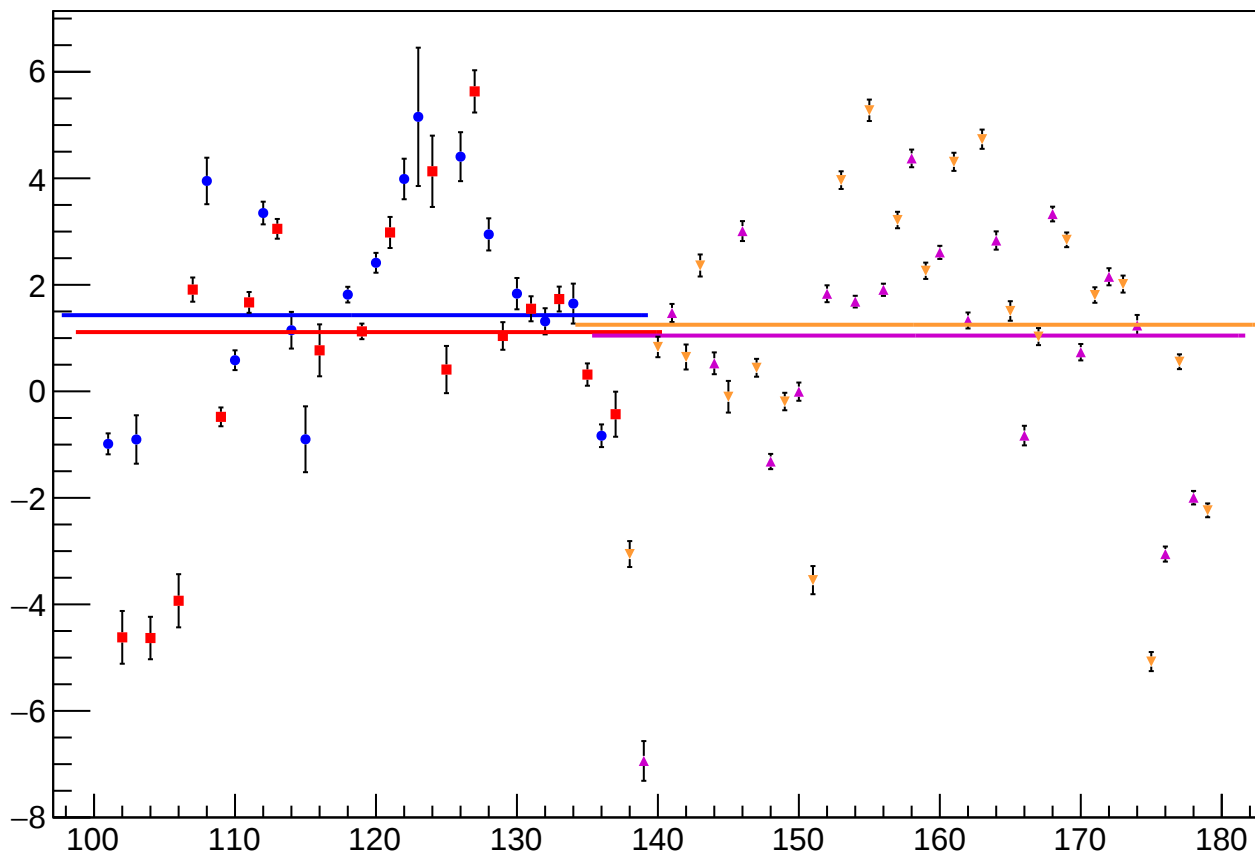
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.791+/-0.045  $\chi^2/\text{NDF}$ : 38863.4/19

Out: -22.218+/-0.047  $\chi^2/\text{NDF}$ : 64202.6/21

All: -20.400+/-0.032  $\chi^2/\text{NDF}$ : 105847.2/41

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.430 $\pm$ 0.063  $\chi^2$ /NDF: 598.0/16

Left Out: 1.251 $\pm$ 0.037  $\chi^2$ /NDF:4540.0/21

Right Out: 1.113 $\pm$ 0.060  $\chi^2$ /NDF: 887.6/17

Left In: 1.047 $\pm$ 0.034  $\chi^2$ /NDF:3523.6/19

Left: 1.142 $\pm$ 0.025  $\chi^2$ /NDF: 8080.0/41

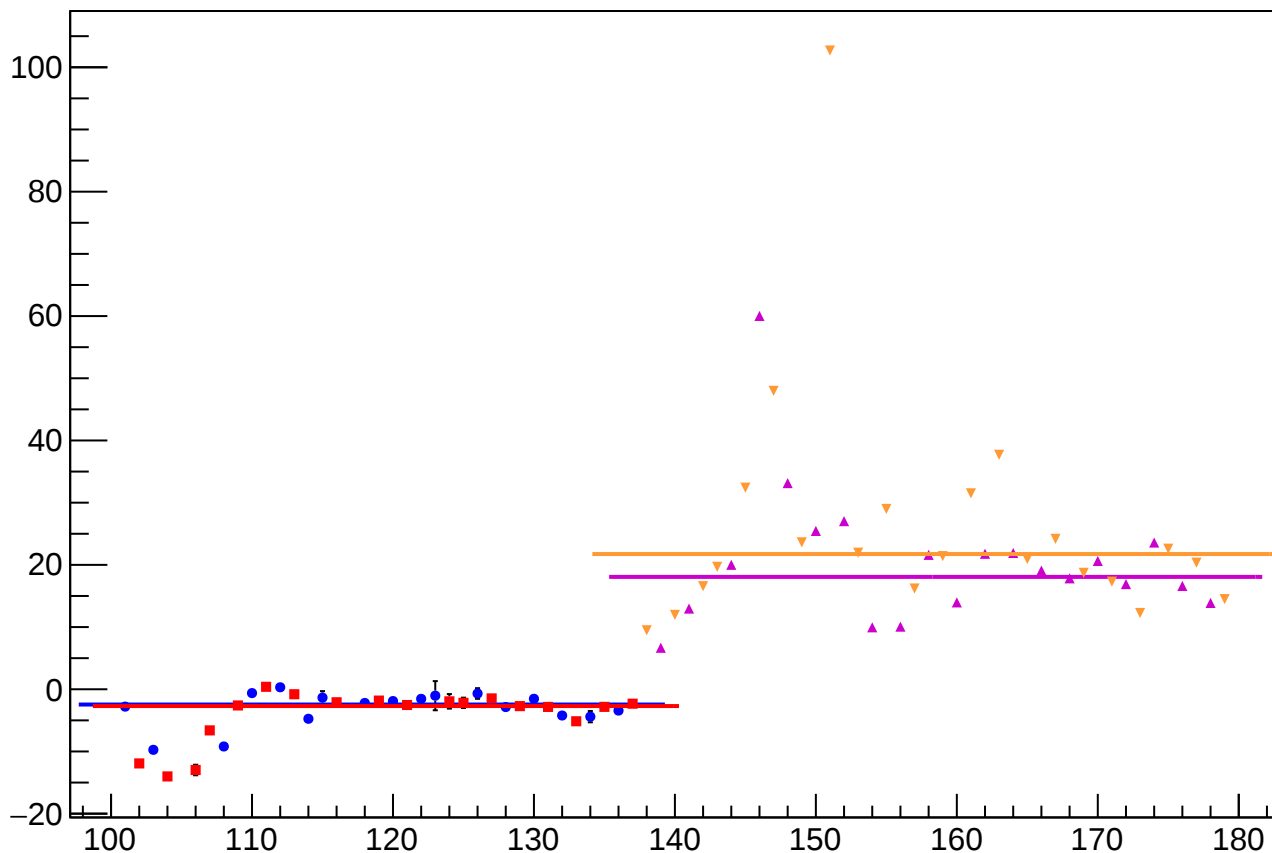
Right: 1.264 $\pm$ 0.043  $\chi^2$ /NDF: 1499.0/34

In: 1.135 $\pm$ 0.030  $\chi^2$ /NDF:4150.3/36

Out: 1.213 $\pm$ 0.031  $\chi^2$ /NDF:5431.4/39

All: 1.172 $\pm$ 0.022  $\chi^2$ /NDF: 9585.0/76

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.456 \pm 0.115$   $\chi^2/\text{NDF}$ : 419.1/16

Left Out:  $21.739 \pm 0.047$   $\chi^2/\text{NDF}$ : 57584.6/21

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

Left In:  $18.067 \pm 0.044$   $\chi^2/\text{NDF}$ : 36590.1/19

Left:  $19.774 \pm 0.032$   $\chi^2/\text{NDF}$ : 97455.9/41

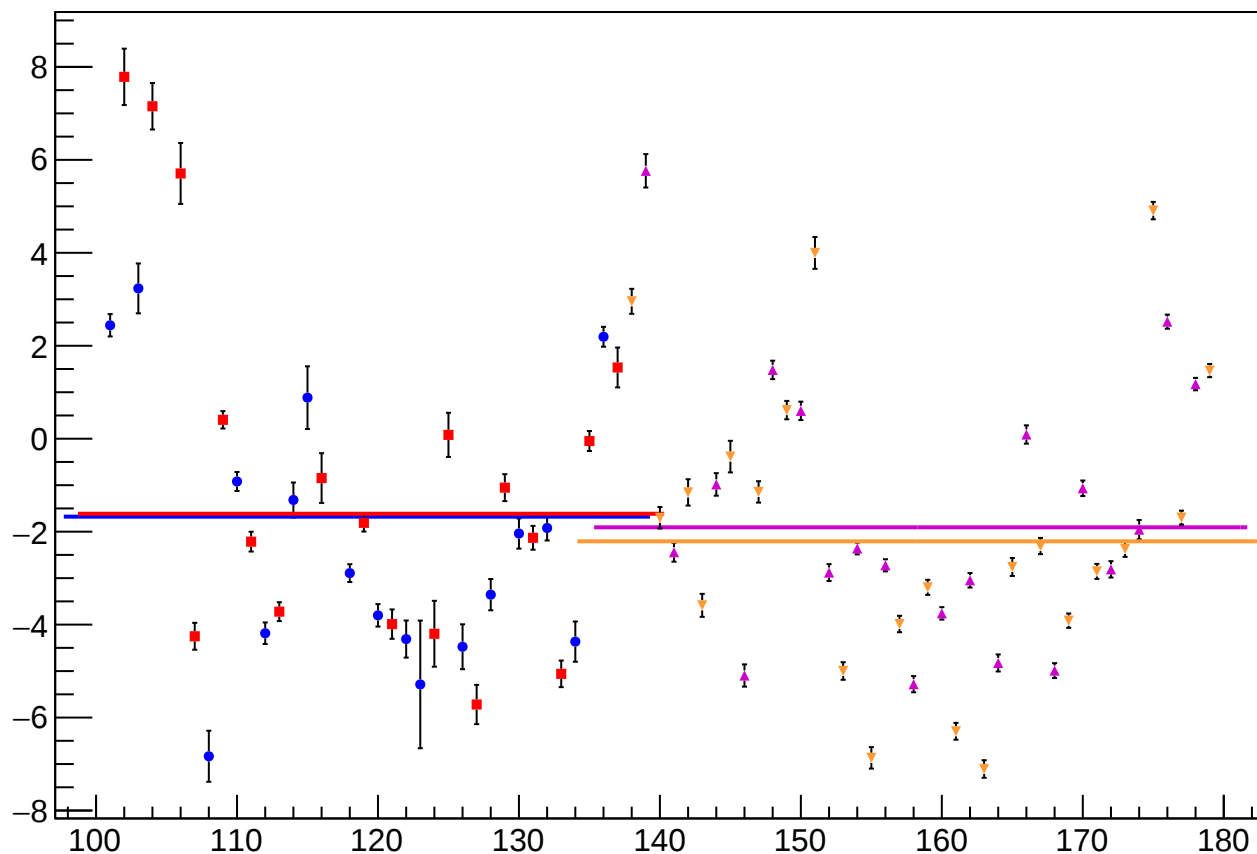
Right:  $-2.590 \pm 0.077$   $\chi^2/\text{NDF}$ : 1251.4/34

In:  $15.459 \pm 0.041$   $\chi^2/\text{NDF}$ : 65025.5/36

Out:  $17.581 \pm 0.043$   $\chi^2/\text{NDF}$ : 104626.4/39

All:  $16.472 \pm 0.030$   $\chi^2/\text{NDF}$ : 170940.5/76

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.677 \pm 0.072$   $\chi^2/\text{NDF}$ : 1204.7/16

Left Out:  $-2.208 \pm 0.041$   $\chi^2/\text{NDF}$ : 5215.4/21

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}$ : 1427.3/17

Left In:  $-1.906 \pm 0.038$   $\chi^2/\text{NDF}$ : 3966.8/19

Left:  $-2.047 \pm 0.028$   $\chi^2/\text{NDF}$ : 9211.0/41

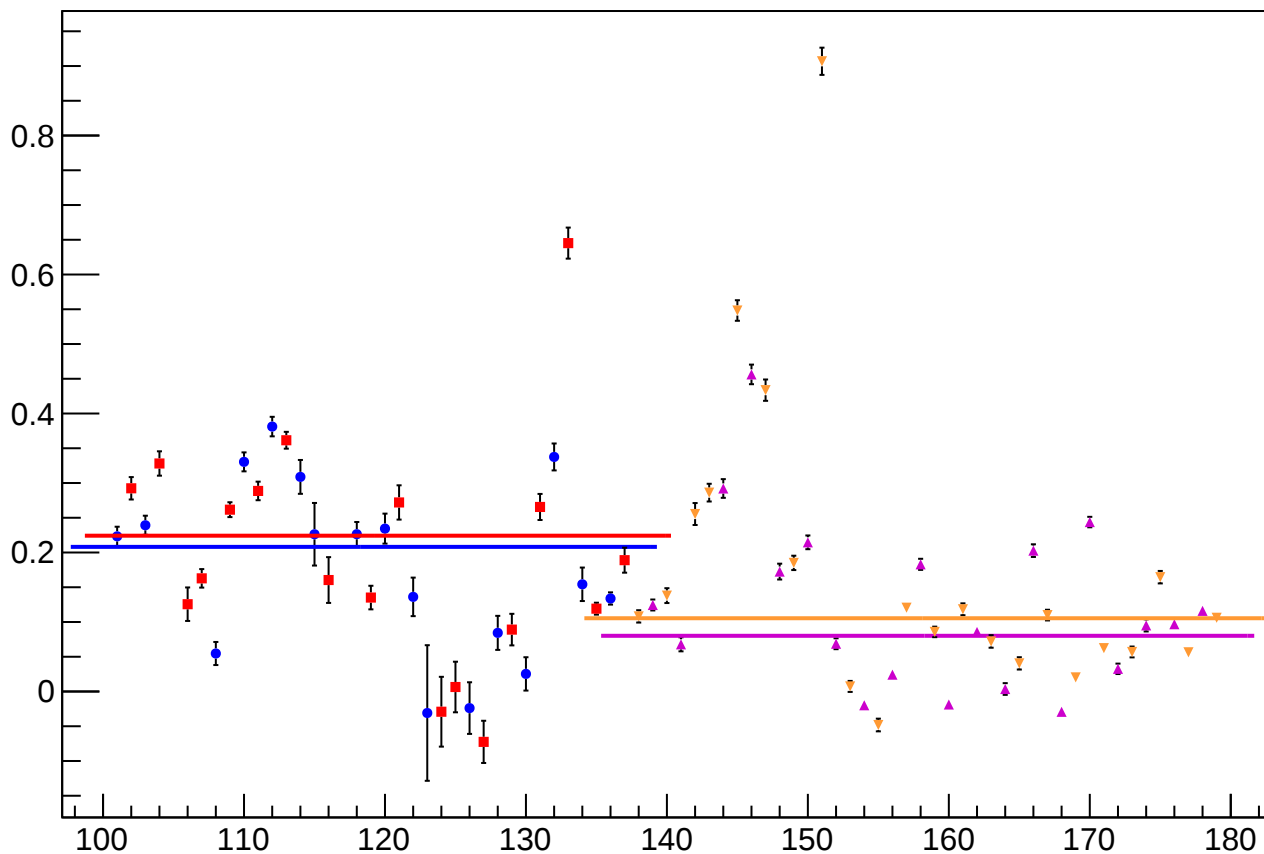
Right:  $-1.644 \pm 0.050$   $\chi^2/\text{NDF}$ : 2632.5/34

In:  $-1.856 \pm 0.034$   $\chi^2/\text{NDF}$ : 5179.4/36

Out:  $-2.049 \pm 0.035$   $\chi^2/\text{NDF}$ : 6698.5/39

All:  $-1.949 \pm 0.024$   $\chi^2/\text{NDF}$ : 11893.5/76

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.208 $\pm$ 0.004  $\chi^2$ /NDF: 600.2/16

Left Out: 0.105 $\pm$ 0.002  $\chi^2$ /NDF:4233.6/21

Right Out: 0.224 $\pm$ 0.004  $\chi^2$ /NDF: 995.8/17

Left In: 0.080 $\pm$ 0.002  $\chi^2$ /NDF:3273.1/19

Left: 0.092 $\pm$ 0.001  $\chi^2$ /NDF: 7610.0/41

Right: 0.217 $\pm$ 0.003  $\chi^2$ /NDF: 1603.8/34

In: 0.097 $\pm$ 0.002  $\chi^2$ /NDF:4654.2/36

Out: 0.127 $\pm$ 0.002  $\chi^2$ /NDF:6003.3/39

All: 0.111 $\pm$ 0.001  $\chi^2$ /NDF: 10834.3/76