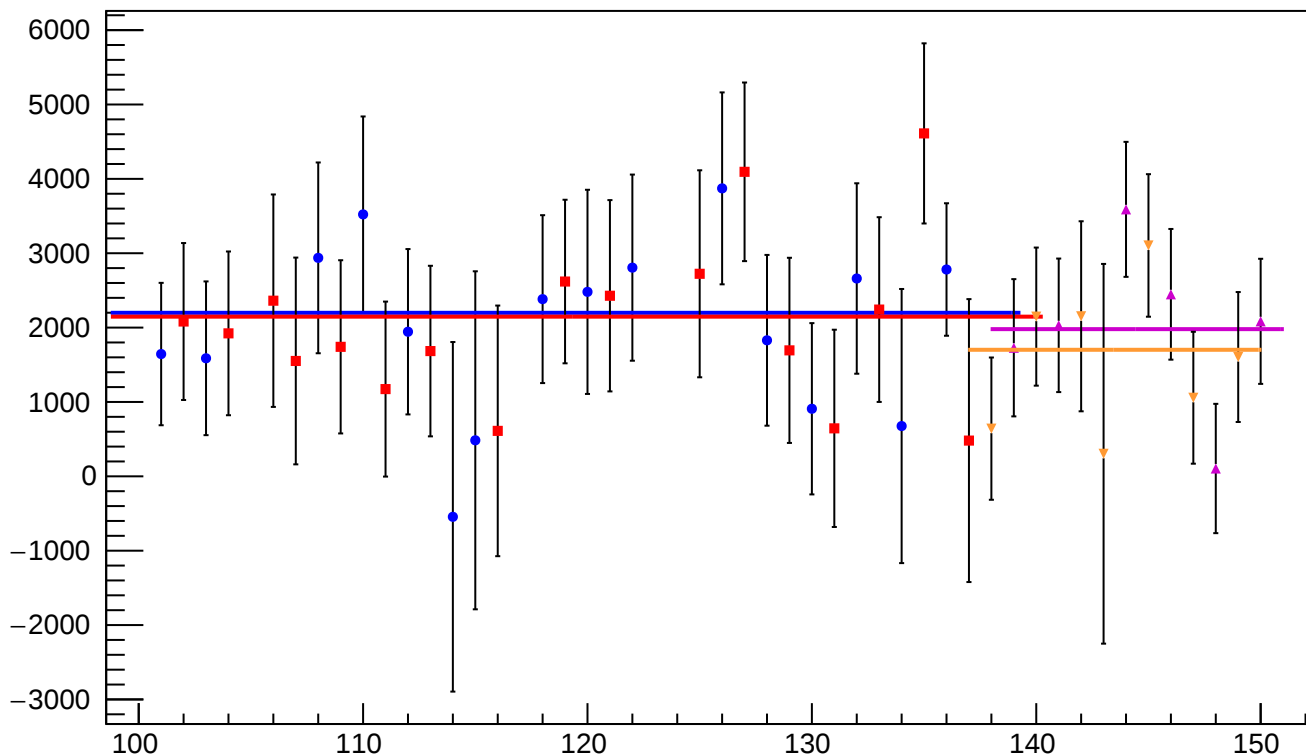


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2198.880+/-306.767

Left Out: 1701.608+/-386.651

Right Out: 2147.149+/-304.804

Left In: 1979.301+/-361.303

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

$\chi^2/\text{NDF}$ : 4.6/6

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

$\chi^2/\text{NDF}$ : 8.2/5

Left: 1849.854+/-263.986

Right: 2172.848+/-216.219

In: 2106.896+/-233.846

Out: 1976.388+/-239.370

All: 2043.165+/-167.273

$\chi^2/\text{NDF}$ : 13.0/12

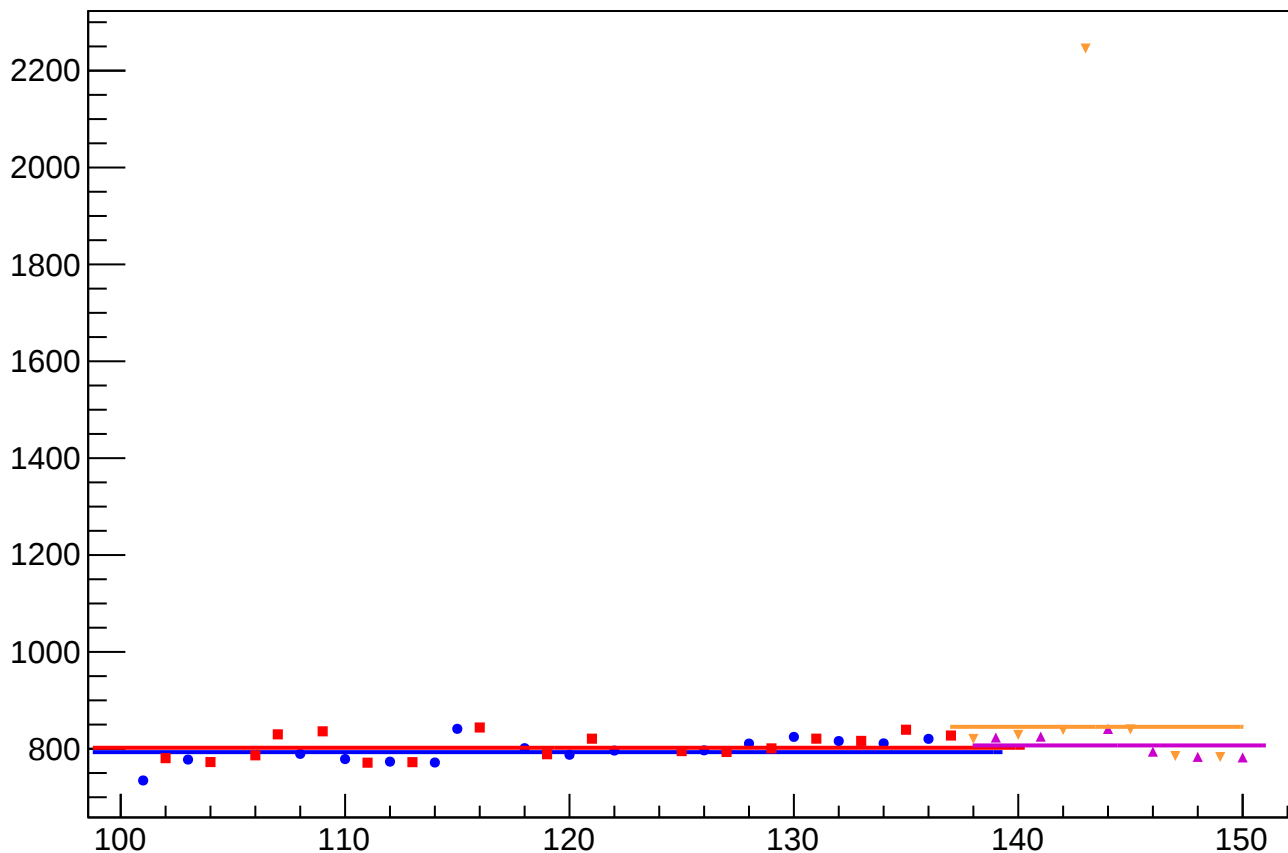
$\chi^2/\text{NDF}$ : 20.0/32

$\chi^2/\text{NDF}$ : 17.0/21

$\chi^2/\text{NDF}$ : 16.8/23

$\chi^2/\text{NDF}$ : 33.9/45

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



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

Left Out: 845.338+/-0.273  $\chi^2/\text{NDF}$ : 623228.6/6

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

Left In: 806.967+/-0.255  $\chi^2/\text{NDF}$ : 7882.9/5

Left: 824.854+/-0.187  $\chi^2/\text{NDF}$ : 641627.1/12

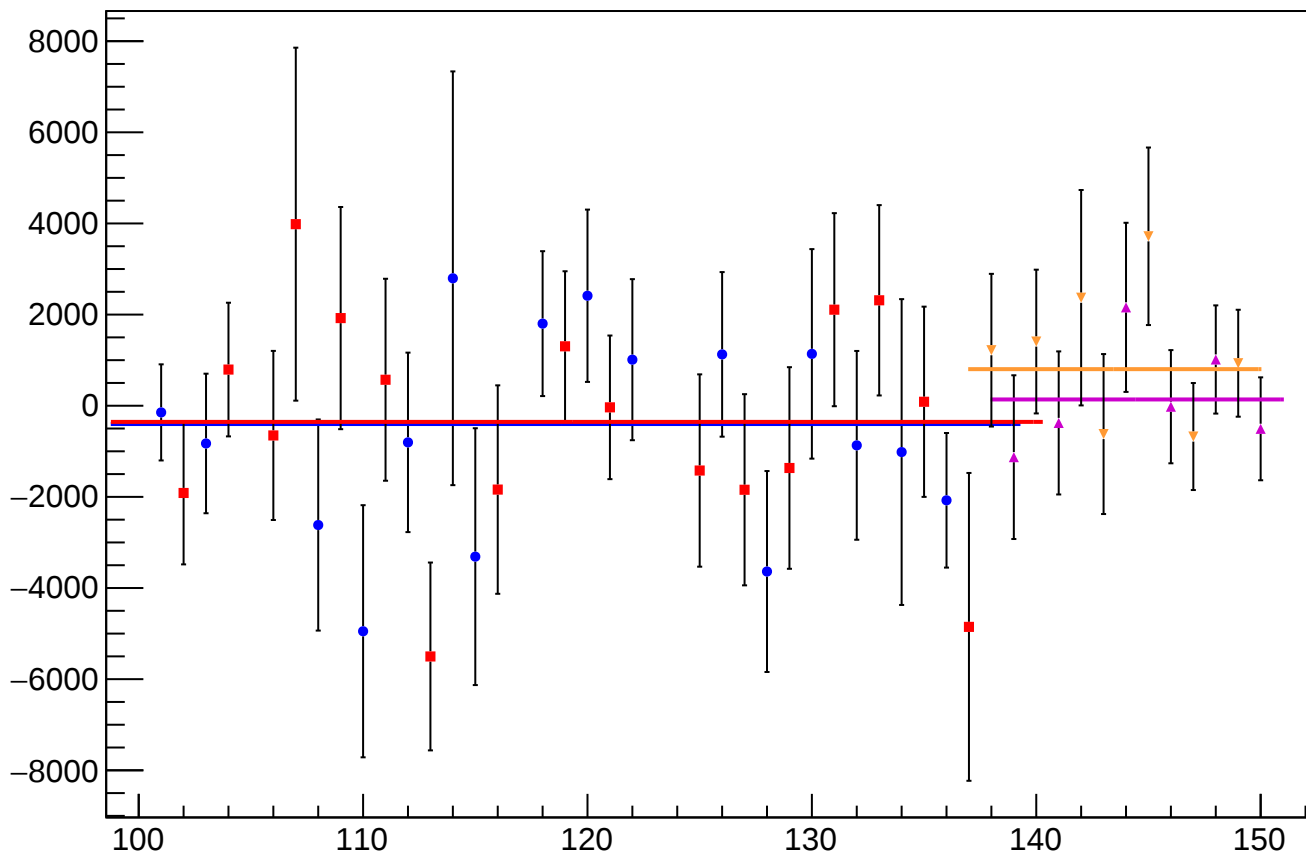
Right: 797.648+/-0.153  $\chi^2/\text{NDF}$ : 28303.8/32

In: 798.904+/-0.165  $\chi^2/\text{NDF}$ : 24300.2/21

Out: 818.701+/-0.169  $\chi^2/\text{NDF}$ : 651343.2/23

All: 808.571+/-0.118  $\chi^2/\text{NDF}$ : 682643.6/45

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



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

Left Out:  $802.849 \pm 579.550$   $\chi^2/\text{NDF}: 5.1/6$

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

Left In:  $137.691 \pm 563.615$   $\chi^2/\text{NDF}: 2.7/5$

Left:  $460.999 \pm 404.052$   $\chi^2/\text{NDF}: 8.5/12$

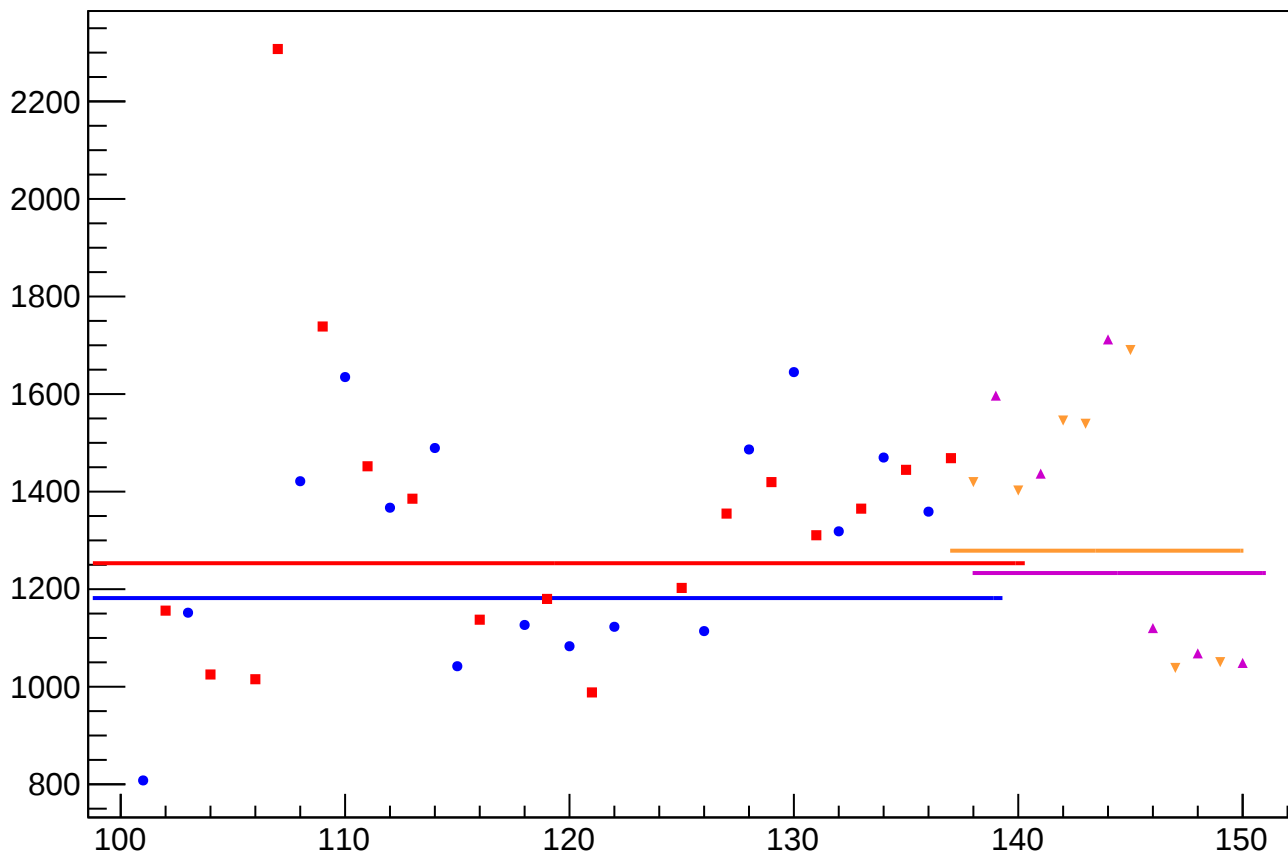
Right:  $-378.842 \pm 337.535$   $\chi^2/\text{NDF}: 32.2/32$

In:  $-181.060 \pm 360.359$   $\chi^2/\text{NDF}: 18.0/21$

Out:  $123.970 \pm 372.629$   $\chi^2/\text{NDF}: 24.9/23$

All:  $-33.650 \pm 259.041$   $\chi^2/\text{NDF}: 43.3/45$

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



Right In: 1181.767+/-0.331  $\chi^2/\text{NDF}$ : 543493.3/15

Left Out: 1278.915+/-0.410  $\chi^2/\text{NDF}$ : 344638.8/6

Right Out: 1253.221+/-0.344  $\chi^2/\text{NDF}$ : 455640.3/16

Left In: 1233.104+/-0.399  $\chi^2/\text{NDF}$ : 357207.8/5

Left: 1255.371+/-0.286  $\chi^2/\text{NDF}$ : 708269.0/12

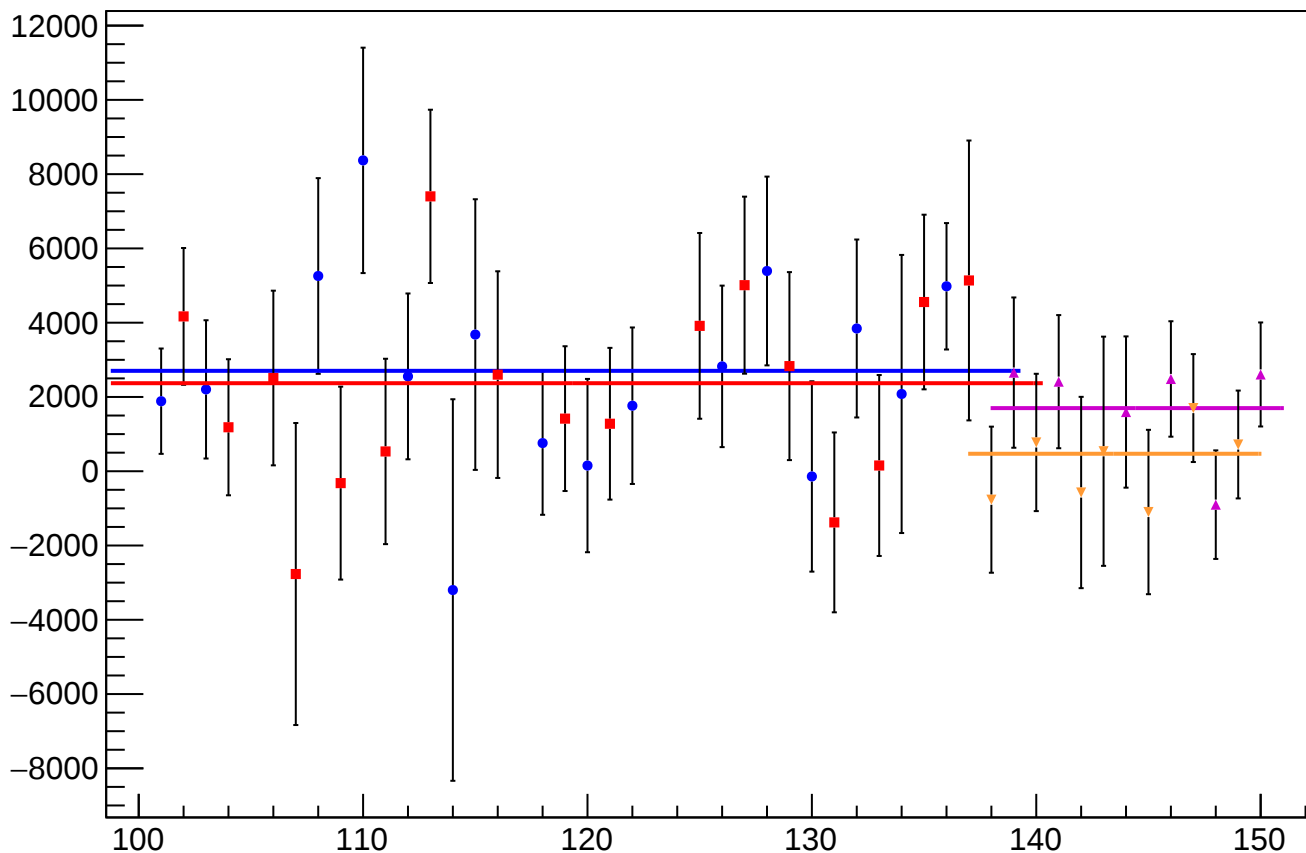
Right: 1216.159+/-0.239  $\chi^2/\text{NDF}$ : 1021509.6/32

In: 1202.753+/-0.255  $\chi^2/\text{NDF}$ : 910511.1/21

Out: 1263.843+/-0.263  $\chi^2/\text{NDF}$ : 802585.0/23

All: 1232.276+/-0.183  $\chi^2/\text{NDF}$ : 1740872.9/45

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



Right In: 2703.689 $\pm$ 564.506  $\chi^2$ /NDF: 13.0/15

Left Out: 470.656 $\pm$ 714.496  $\chi^2$ /NDF:1.8/6

Right Out: 2370.617 $\pm$ 573.481  $\chi^2$ /NDF: 16.0/16

Left In: 1699.684 $\pm$ 675.995  $\chi^2$ /NDF:4.2/5

Left: 1119.174 $\pm$ 491.048  $\chi^2$ /NDF: 7.6/12

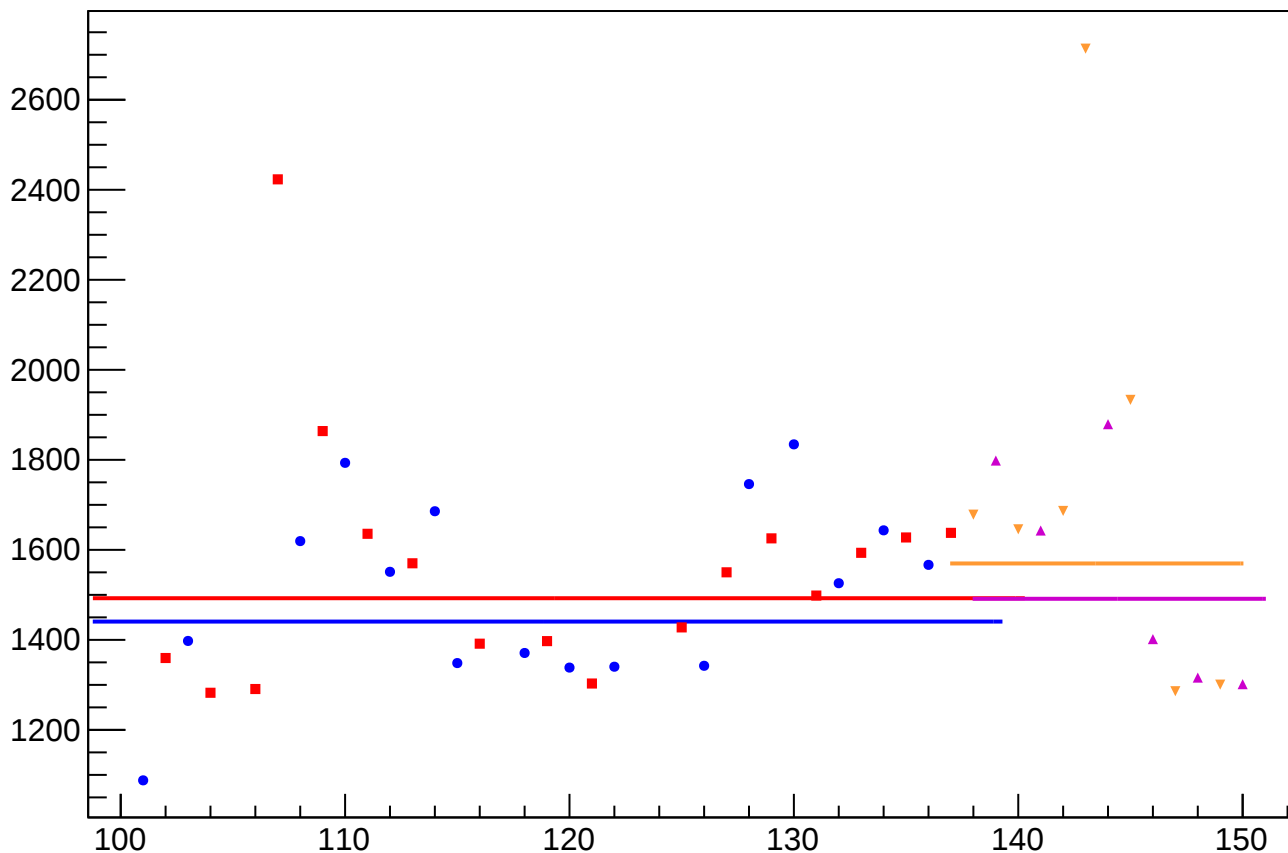
Right: 2539.780 $\pm$ 402.301  $\chi^2$ /NDF: 29.2/32

In: 2291.198 $\pm$ 433.294  $\chi^2$ /NDF:18.6/21

Out: 1626.191 $\pm$ 447.237  $\chi^2$ /NDF:22.2/23

All: 1969.222 $\pm$ 311.198  $\chi^2$ /NDF: 41.9/45

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



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

Left Out: 1569.756 $\pm$ 0.505  $\chi^2/\text{NDF}$ : 487315.2/6

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

Left In: 1491.269 $\pm$ 0.478  $\chi^2/\text{NDF}$ : 205013.5/5

Left: 1528.341 $\pm$ 0.347  $\chi^2/\text{NDF}$ : 705063.2/12

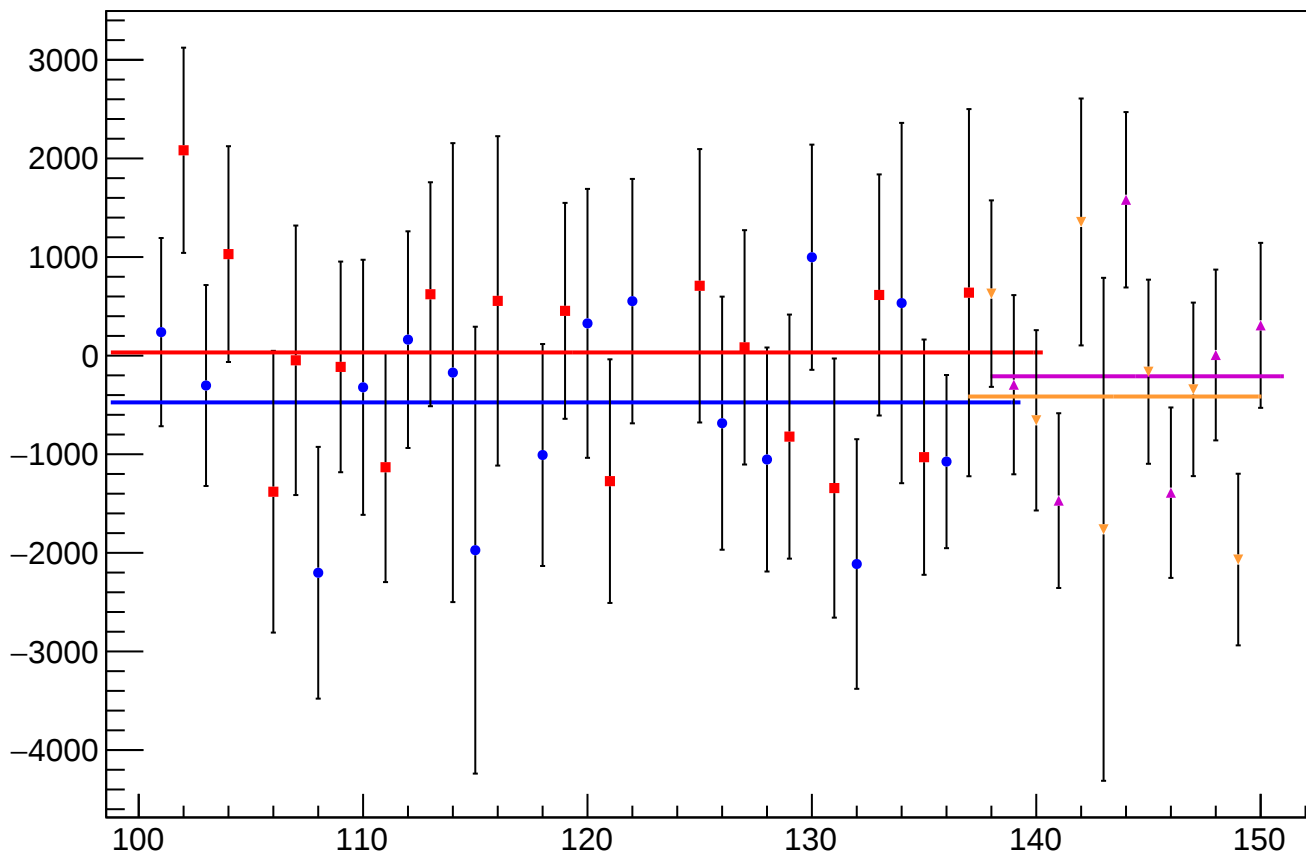
Right: 1466.182 $\pm$ 0.284  $\chi^2/\text{NDF}$ : 542080.9/32

In: 1461.448 $\pm$ 0.306  $\chi^2/\text{NDF}$ : 493882.4/21

Out: 1522.788 $\pm$ 0.316  $\chi^2/\text{NDF}$ : 753031.6/23

All: 1491.147 $\pm$ 0.220  $\chi^2/\text{NDF}$ : 1266320.2/45

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



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

Left Out:  $-414.572 \pm 381.674$   $\chi^2/\text{NDF}$ : 7.3/6

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

Left In:  $-209.404 \pm 356.943$   $\chi^2/\text{NDF}$ : 8.4/5

Left:  $-305.126 \pm 260.702$   $\chi^2/\text{NDF}$ : 15.8/12

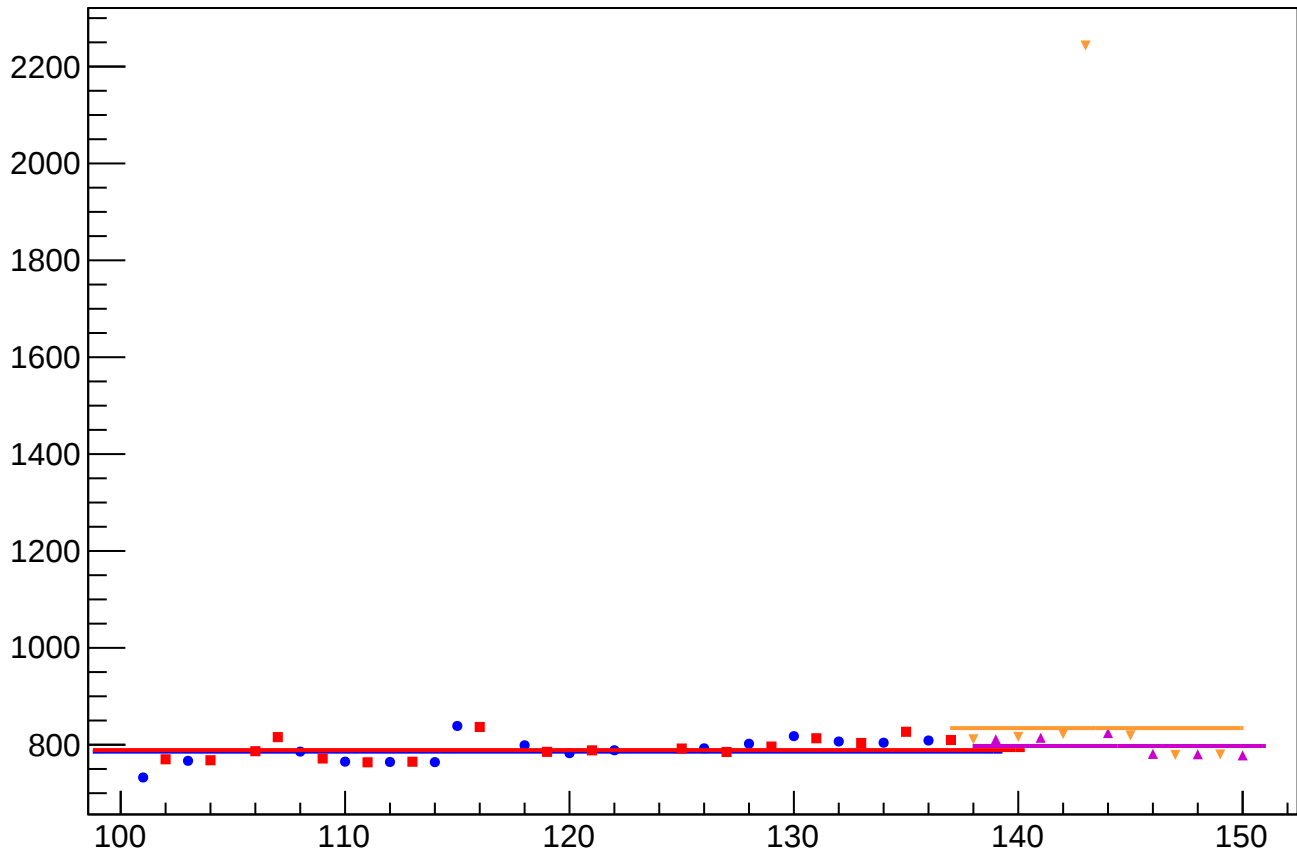
Right:  $-217.229 \pm 213.362$   $\chi^2/\text{NDF}$ : 21.6/32

In:  $-362.877 \pm 231.400$   $\chi^2/\text{NDF}$ : 17.6/21

Out:  $-137.983 \pm 235.672$   $\chi^2/\text{NDF}$ : 19.4/23

All:  $-252.487 \pm 165.114$   $\chi^2/\text{NDF}$ : 37.4/45

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



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

Left Out: 834.376 $\pm$ 0.270  $\chi^2$ /NDF: 628888.0/6

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

Left In: 797.429 $\pm$ 0.252  $\chi^2$ /NDF: 5563.8/5

Left: 814.667 $\pm$ 0.184  $\chi^2$ /NDF: 644449.2/12

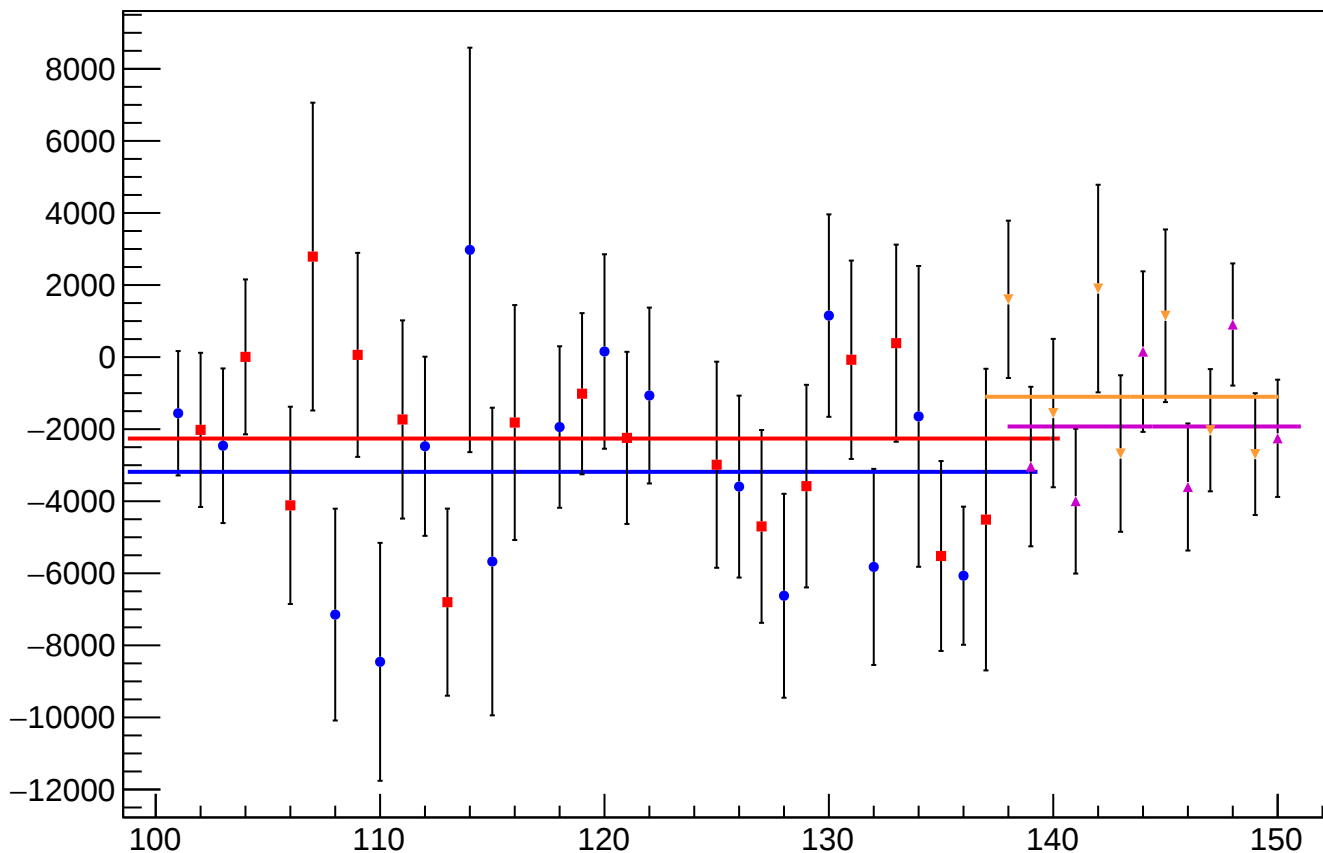
Right: 787.366 $\pm$ 0.151  $\chi^2$ /NDF: 23558.6/32

In: 790.656 $\pm$ 0.164  $\chi^2$ /NDF: 20727.6/21

Out: 806.264 $\pm$ 0.167  $\chi^2$ /NDF: 655949.5/23

All: 798.317 $\pm$ 0.117  $\chi^2$ /NDF: 681143.1/45

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



Right In: -3184.522 $\pm$ 647.361  $\chi^2$ /NDF: 16.8/15

Left Out: -1100.745 $\pm$ 778.528  $\chi^2$ /NDF:5.3/6

Right Out: -2260.241 $\pm$ 651.957  $\chi^2$ /NDF: 11.6/16

Left In: -1925.713 $\pm$ 766.888  $\chi^2$ /NDF:5.9/5

Left: -1519.443 $\pm$ 546.341  $\chi^2$ /NDF: 11.8/12

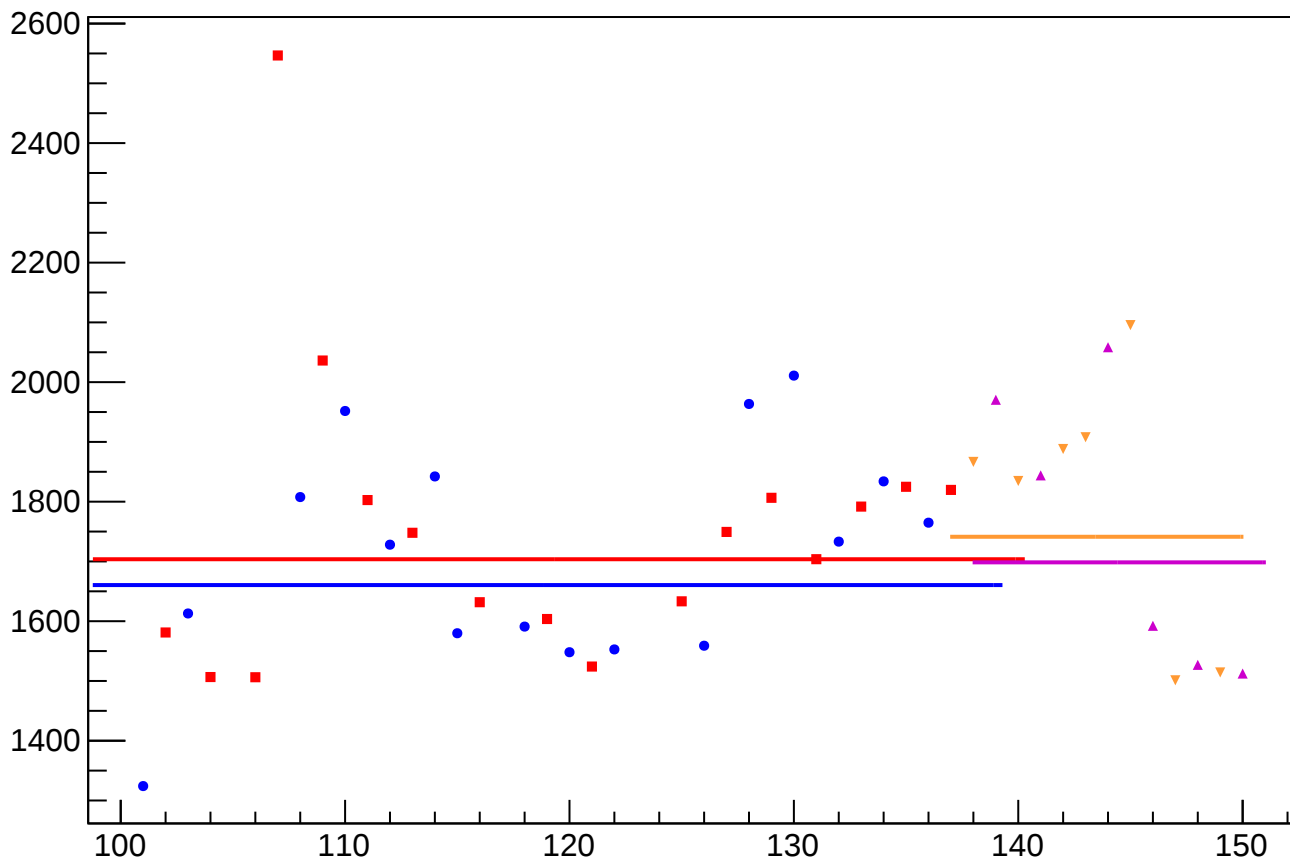
Right: -2725.651 $\pm$ 459.370  $\chi^2$ /NDF: 29.4/32

In: -2660.752 $\pm$ 494.677  $\chi^2$ /NDF:24.3/21

Out: -1782.290 $\pm$ 499.841  $\chi^2$ /NDF:18.1/23

All: -2226.082 $\pm$ 351.601  $\chi^2$ /NDF: 44.0/45

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



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

Left Out: 1741.283 $\pm$ 0.551  $\chi^2/\text{NDF}$ :147528.1/6

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

Left In: 1698.460 $\pm$ 0.542  $\chi^2/\text{NDF}$ :146778.1/5

Left: 1719.549 $\pm$ 0.386  $\chi^2/\text{NDF}$ : 297377.3/12

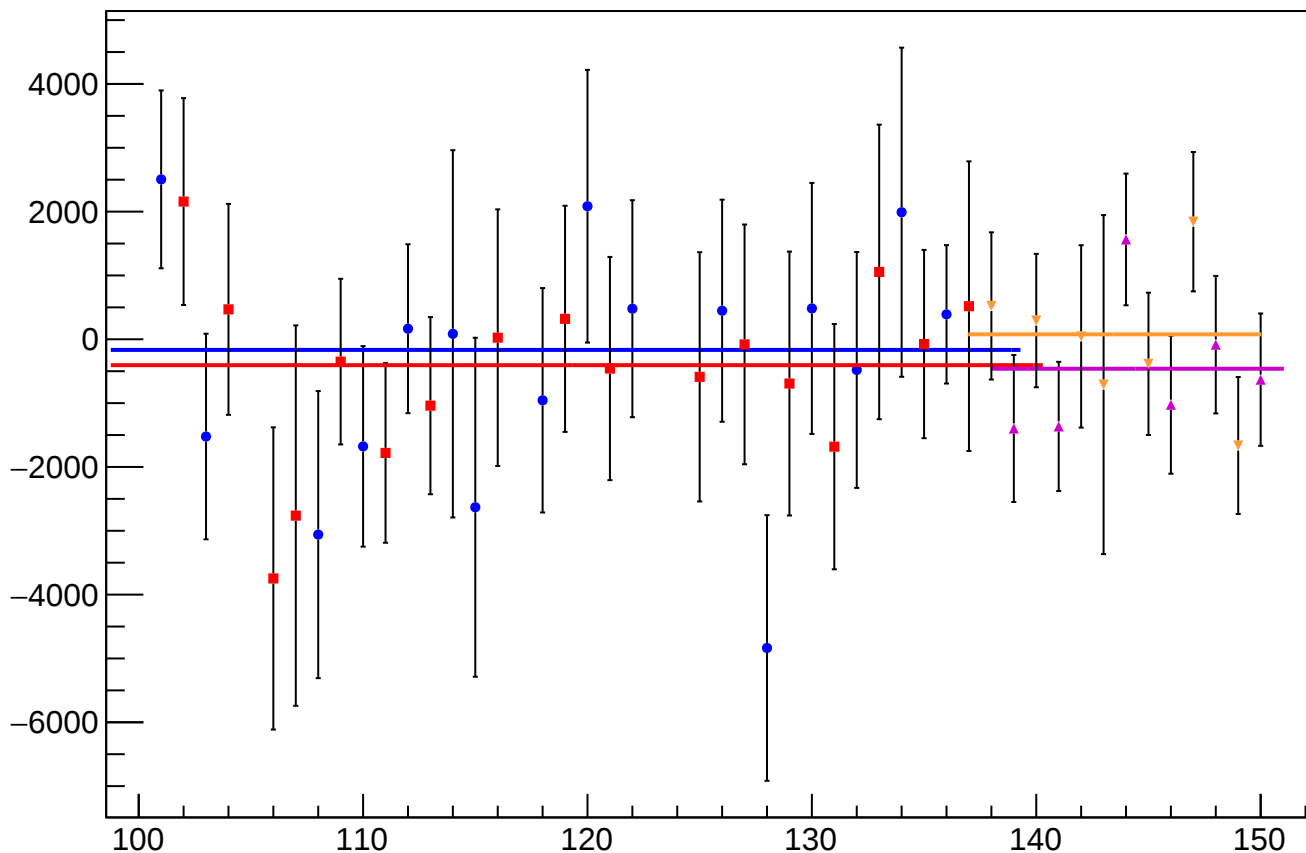
Right: 1681.918 $\pm$ 0.325  $\chi^2/\text{NDF}$ : 354656.9/32

In: 1676.272 $\pm$ 0.350  $\chi^2/\text{NDF}$ :328851.3/21

Out: 1719.180 $\pm$ 0.353  $\chi^2/\text{NDF}$ :321296.2/23

All: 1697.503 $\pm$ 0.249  $\chi^2/\text{NDF}$ : 657593.0/45

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



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

Left Out:  $77.831 \pm 455.850$   $\chi^2/\text{NDF}: 5.7/6$

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

Left In:  $-461.315 \pm 433.555$   $\chi^2/\text{NDF}: 5.7/5$

Left:  $-205.248 \pm 314.156$   $\chi^2/\text{NDF}: 12.2/12$

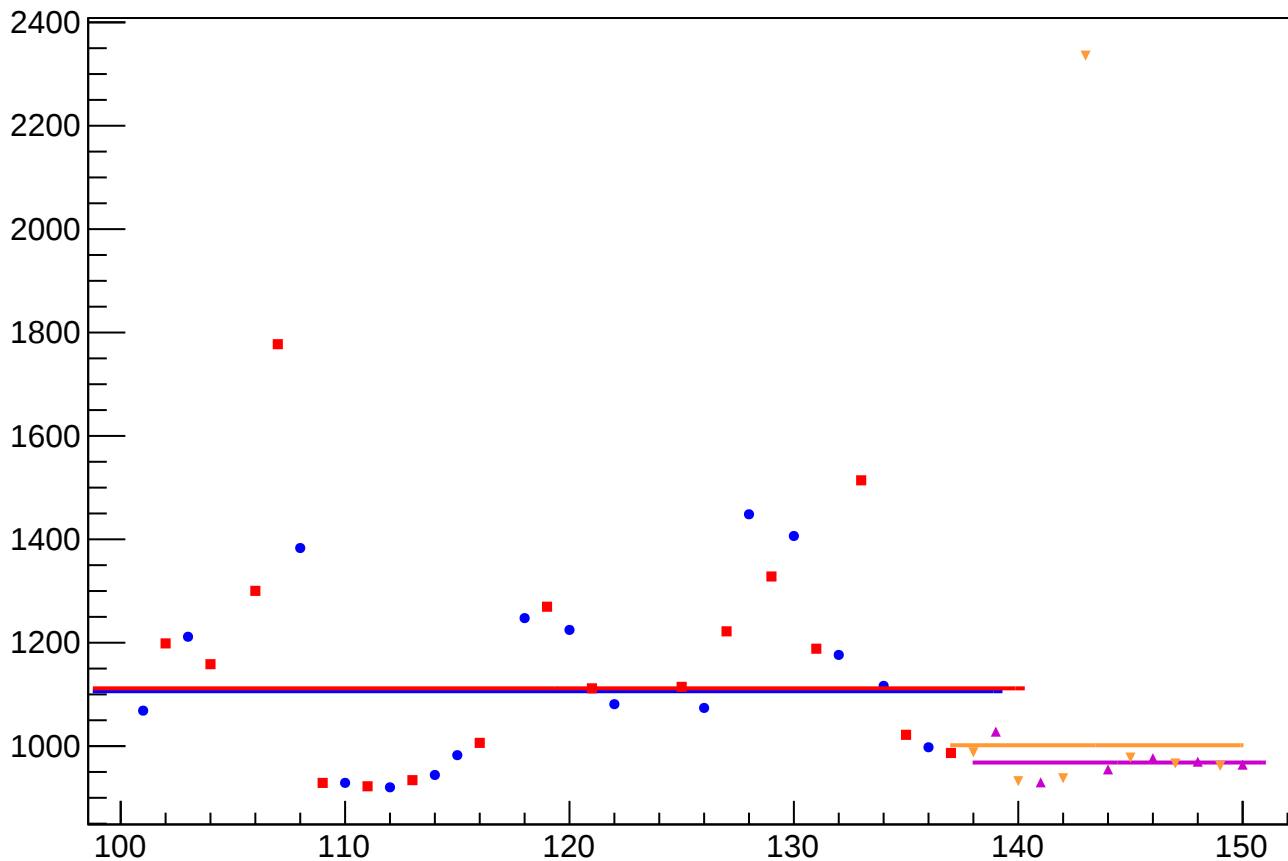
Right:  $-286.949 \pm 304.505$   $\chi^2/\text{NDF}: 23.7/32$

In:  $-313.539 \pm 306.260$   $\chi^2/\text{NDF}: 21.6/21$

Out:  $-178.588 \pm 312.262$   $\chi^2/\text{NDF}: 14.2/23$

All:  $-247.373 \pm 218.650$   $\chi^2/\text{NDF}: 35.9/45$

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



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

Left Out: 1001.698+/-0.322  $\chi^2/\text{NDF}$ : 523667.6/6

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

Left In: 968.244+/-0.307  $\chi^2/\text{NDF}$ : 8738.2/5

Left: 984.133+/-0.222  $\chi^2/\text{NDF}$ : 538061.5/12

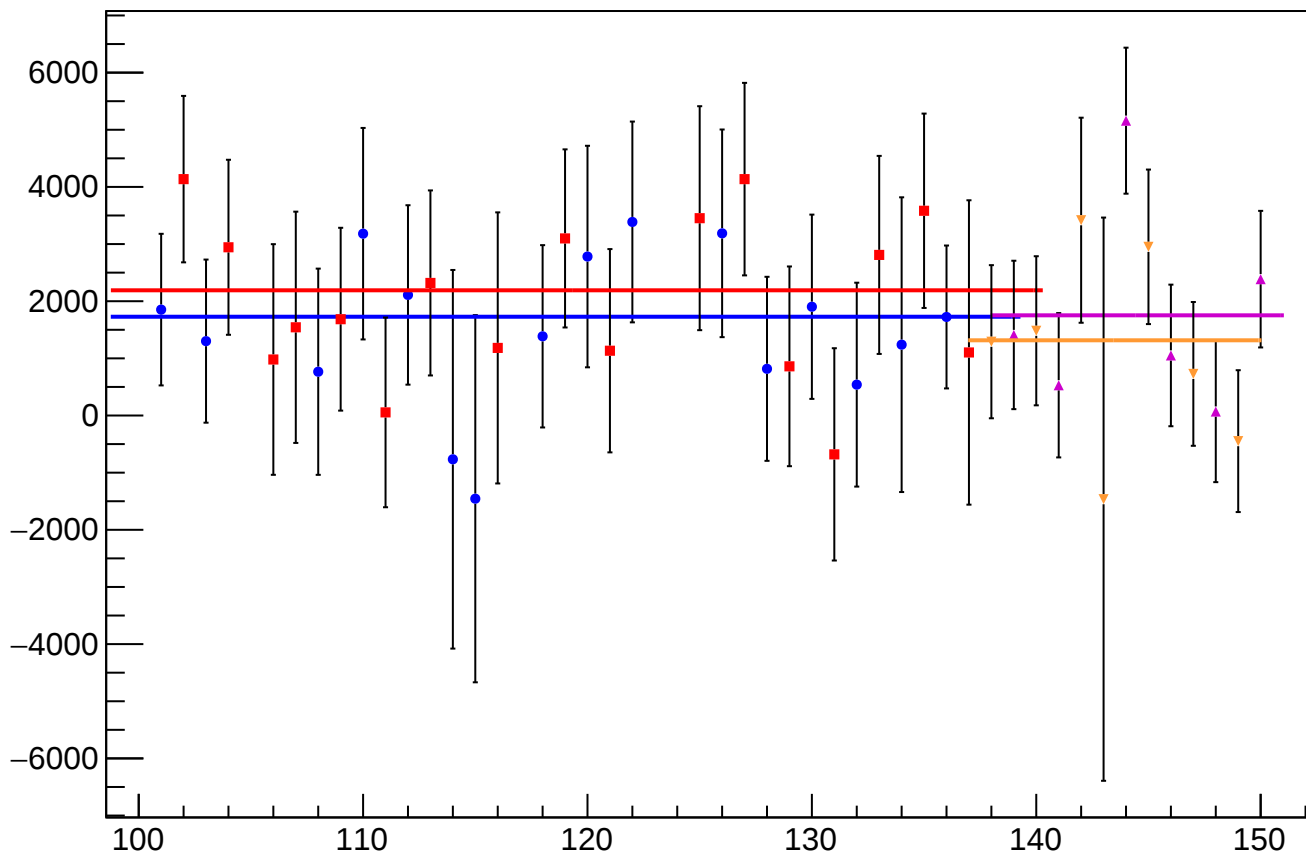
Right: 1108.969+/-0.215  $\chi^2/\text{NDF}$ : 616473.4/32

In: 1037.341+/-0.217  $\chi^2/\text{NDF}$ : 370049.0/21

Out: 1060.097+/-0.221  $\chi^2/\text{NDF}$ : 941898.6/23

All: 1048.498+/-0.155  $\chi^2/\text{NDF}$ : 1317361.2/45

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



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

Left Out: 1316.132 $\pm$ 548.438  $\chi^2/\text{NDF}$ : 5.4/6

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

Left In: 1753.118 $\pm$ 510.334  $\chi^2/\text{NDF}$ : 10.6/5

Left: 1550.332 $\pm$ 373.606  $\chi^2/\text{NDF}$ : 16.3/12

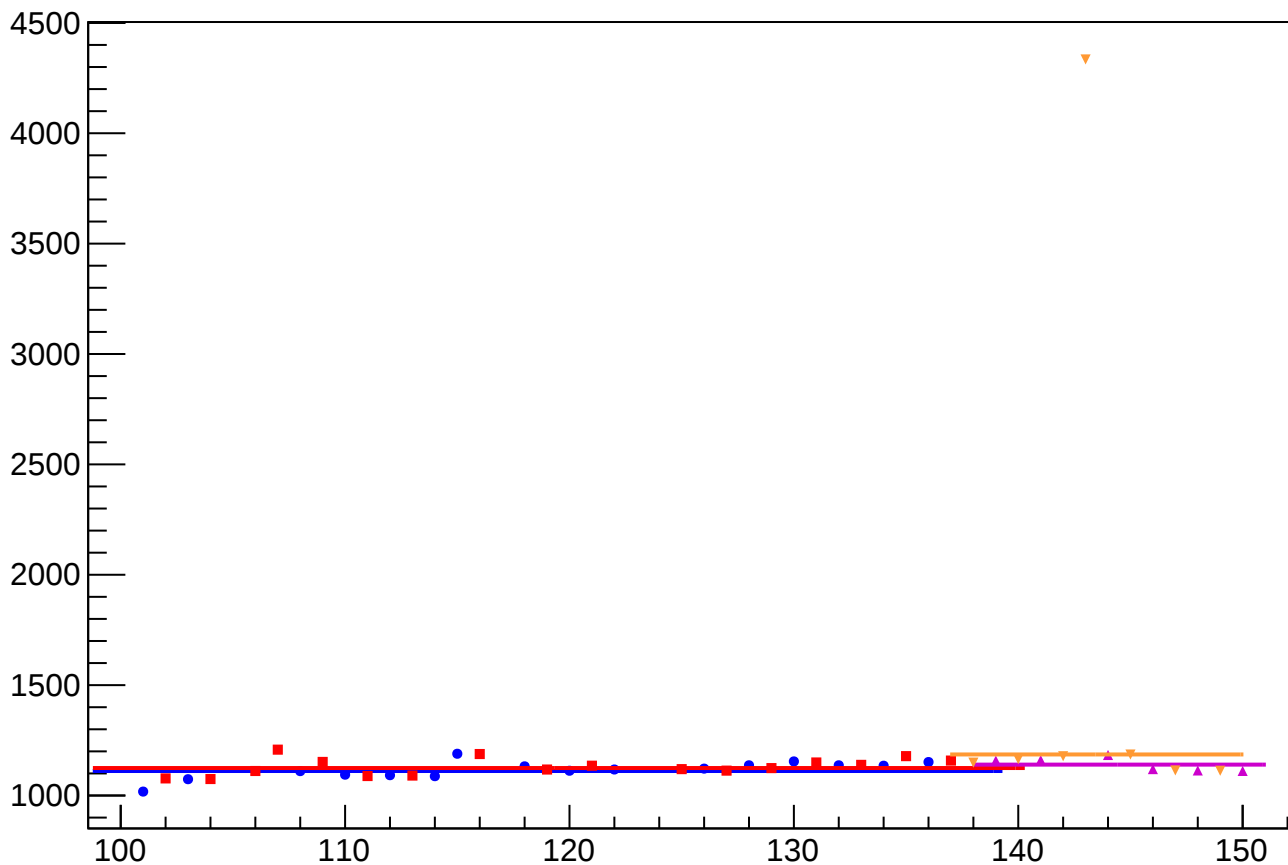
Right: 1961.110 $\pm$ 303.000  $\chi^2/\text{NDF}$ : 16.7/32

In: 1738.694 $\pm$ 328.746  $\chi^2/\text{NDF}$ : 15.9/21

Out: 1860.590 $\pm$ 337.032  $\chi^2/\text{NDF}$ : 17.8/23

All: 1798.125 $\pm$ 235.333  $\chi^2/\text{NDF}$ : 33.7/45

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



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

Left Out: 1186.011 $\pm$ 0.388  $\chi^2$ /NDF: 832174.2/6

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

Left In: 1139.962 $\pm$ 0.361  $\chi^2$ /NDF: 5866.9/5

Left: 1161.331 $\pm$ 0.264  $\chi^2$ /NDF: 845597.7/12

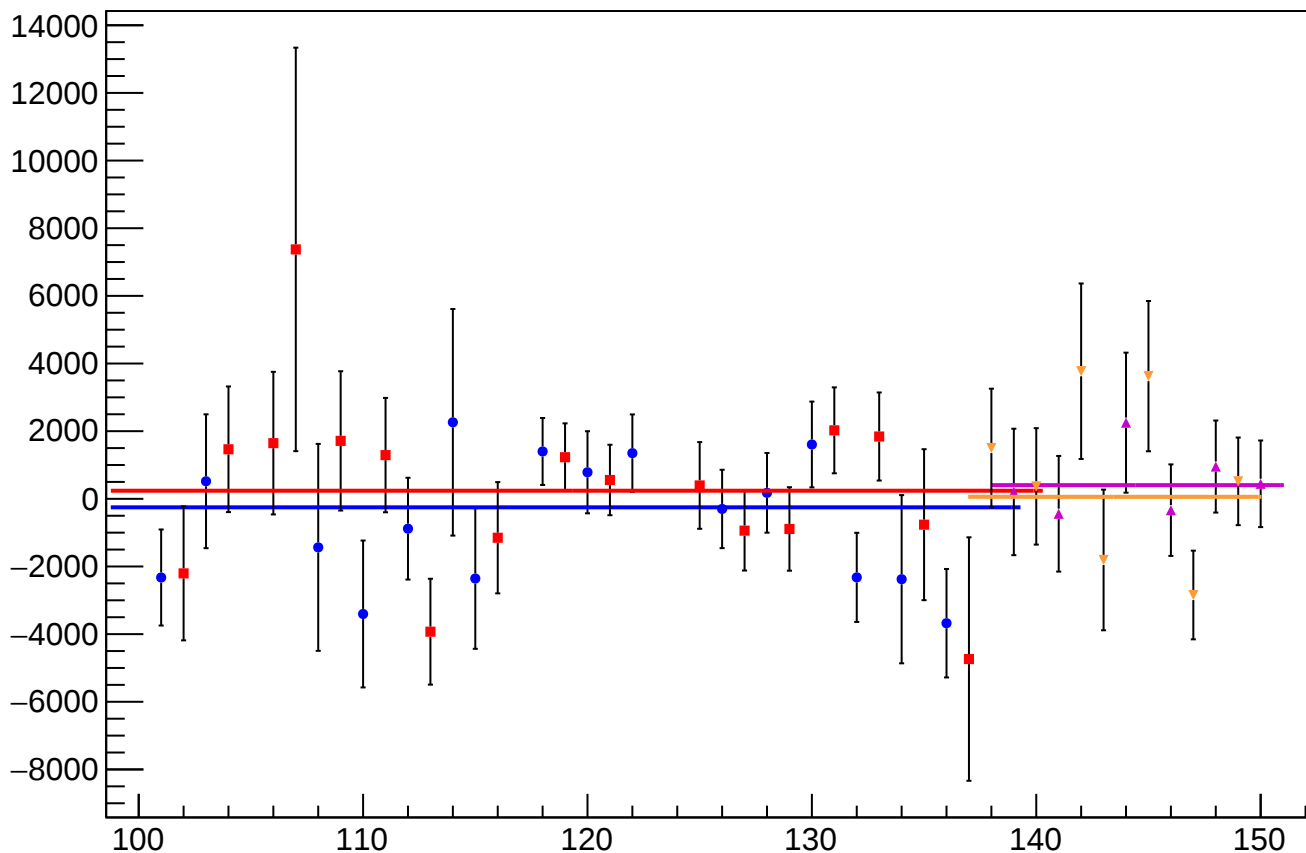
Right: 1117.819 $\pm$ 0.214  $\chi^2$ /NDF: 33680.2/32

In: 1123.043 $\pm$ 0.232  $\chi^2$ /NDF: 27715.4/21

Out: 1147.738 $\pm$ 0.238  $\chi^2$ /NDF: 862424.7/23

All: 1135.083 $\pm$ 0.166  $\chi^2$ /NDF: 895642.7/45

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



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

Left Out: 59.180 $\pm$ 642.314  $\chi^2/\text{NDF}$ : 11.2/6

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

Left In: 404.829 $\pm$ 625.168  $\chi^2/\text{NDF}$ : 1.5/5

Left: 236.680 $\pm$ 448.000  $\chi^2/\text{NDF}$ : 12.8/12

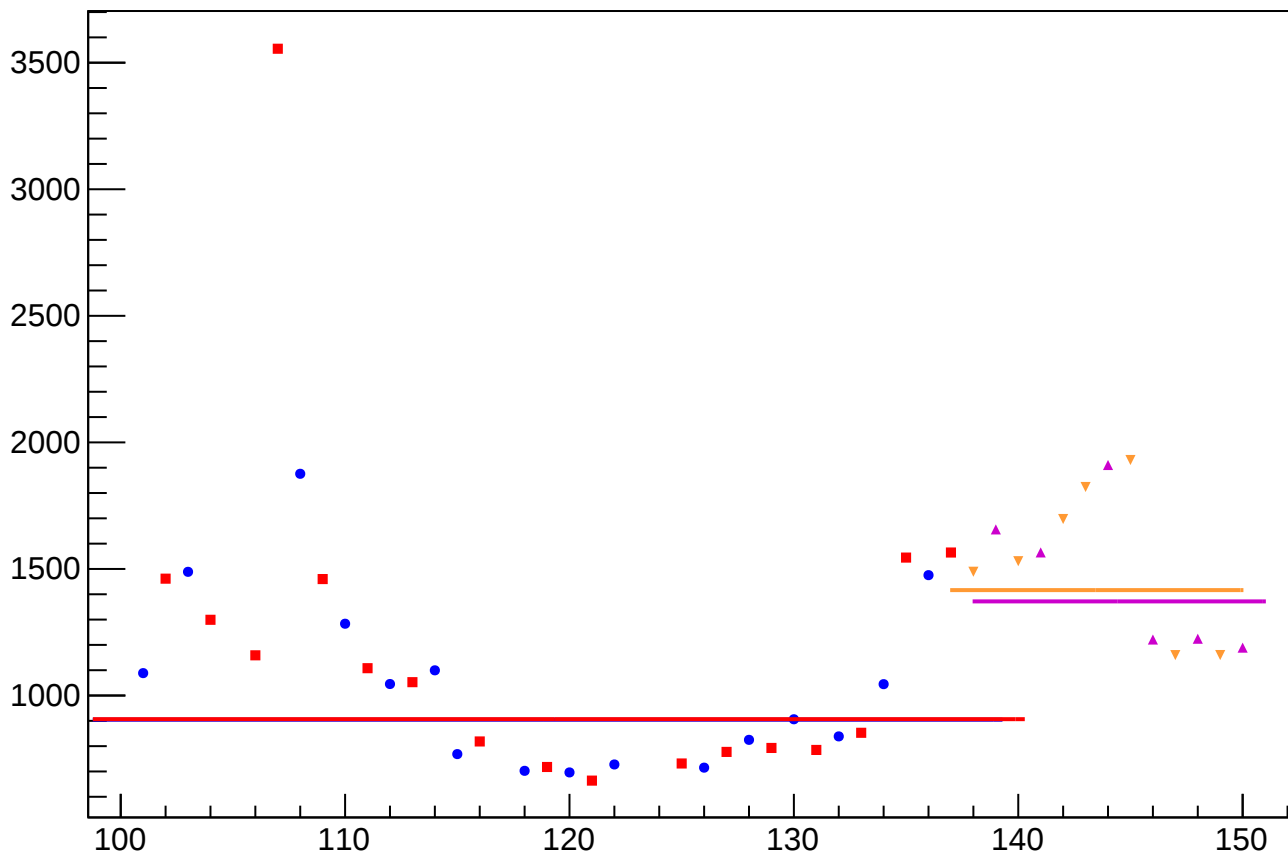
Right: -4.984 $\pm$ 257.666  $\chi^2/\text{NDF}$ : 43.8/32

In: -84.554 $\pm$ 315.178  $\chi^2/\text{NDF}$ : 24.2/21

Out: 195.971 $\pm$ 316.579  $\chi^2/\text{NDF}$ : 32.3/23

All: 55.086 $\pm$ 223.358  $\chi^2/\text{NDF}$ : 56.9/45

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



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

Left Out: 1416.406+/-0.454  $\chi^2/\text{NDF}$ : 374730.3/6

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

Left In: 1371.832+/-0.442  $\chi^2/\text{NDF}$ : 296445.4/5

Left: 1393.516+/-0.317  $\chi^2/\text{NDF}$ : 676121.6/12

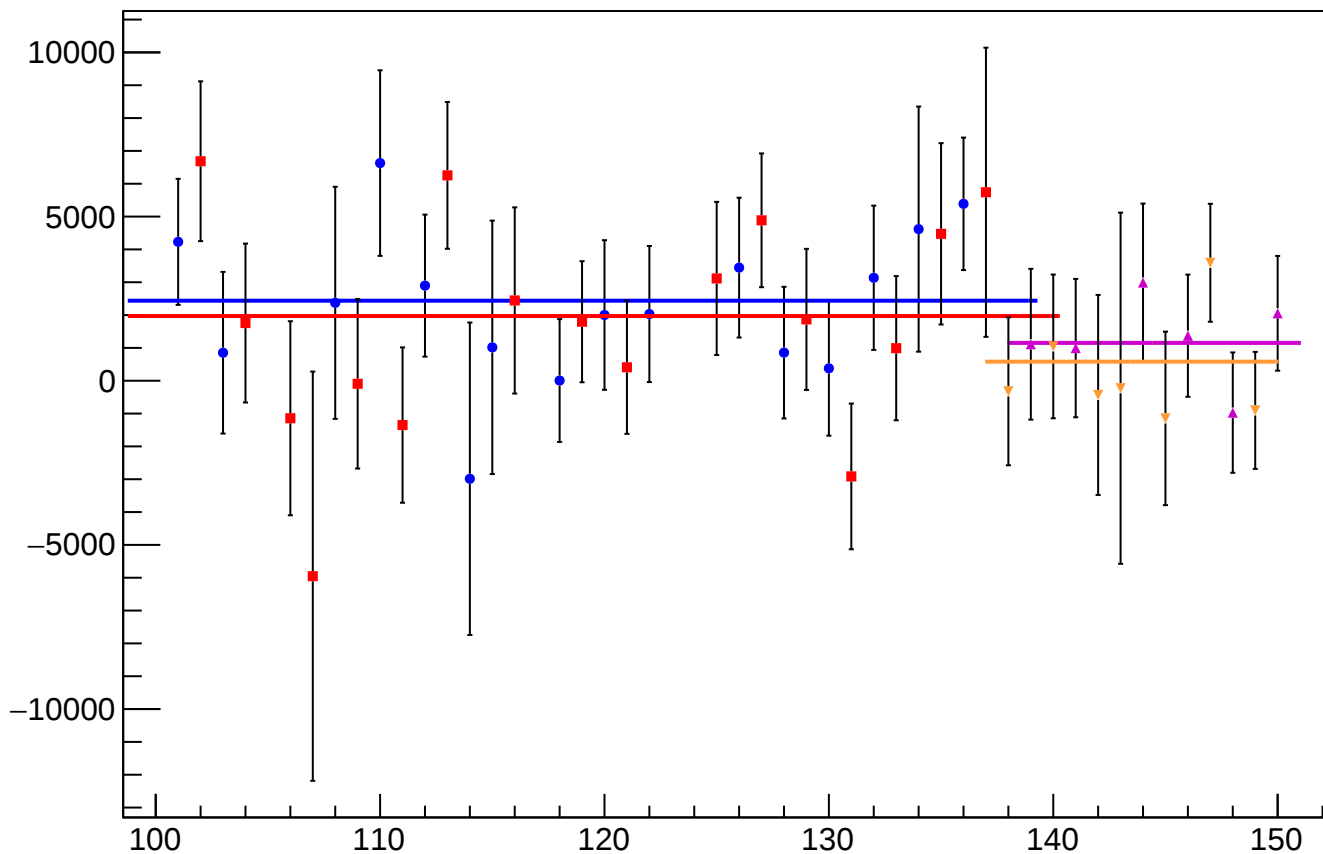
Right: 905.545+/-0.182  $\chi^2/\text{NDF}$ : 2397204.6/32

In: 1023.271+/-0.223  $\chi^2/\text{NDF}$ : 2151128.5/21

Out: 1030.439+/-0.224  $\chi^2/\text{NDF}$ : 2704685.8/23

All: 1026.839+/-0.158  $\chi^2/\text{NDF}$ : 4856329.3/45

# asym\_usl\_mean vs Slug, Sign Corrected



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

Left Out: 580.925+/-871.487  $\chi^2/\text{NDF}$ : 4.3/6

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

Left In: 1152.453+/-816.092  $\chi^2/\text{NDF}$ : 2.2/5

Left: 885.430+/-595.686  $\chi^2/\text{NDF}$ : 6.7/12

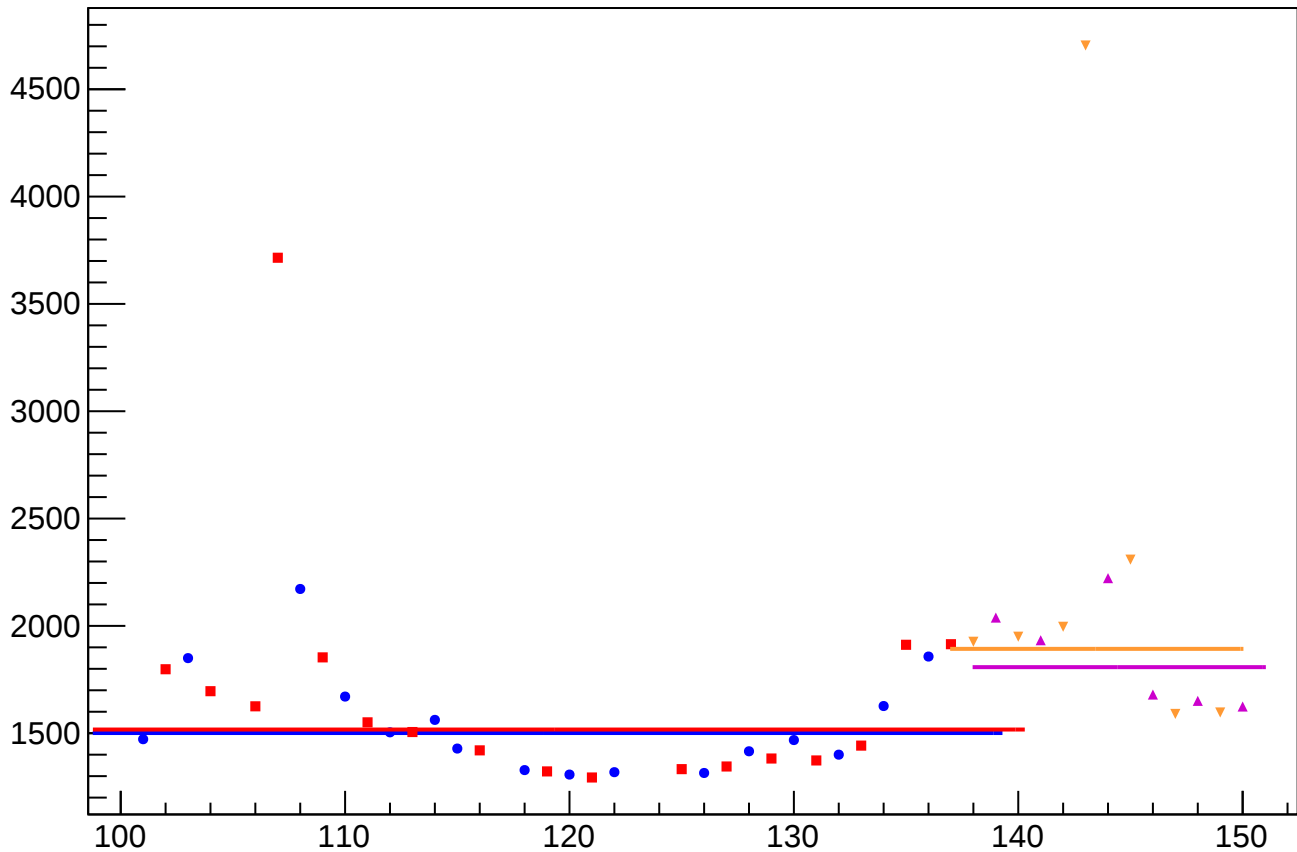
Right: 2204.149+/-414.681  $\chi^2/\text{NDF}$ : 33.8/32

In: 2000.109+/-476.121  $\chi^2/\text{NDF}$ : 15.0/21

Out: 1537.128+/-486.667  $\chi^2/\text{NDF}$ : 28.3/23

All: 1773.689+/-340.336  $\chi^2/\text{NDF}$ : 43.8/45

# asym\_usl\_rms vs Slug, Sign Corrected



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

Left Out: 1892.960+/-0.616  $\chi^2/\text{NDF}$ : 718313.7/6

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

Left In: 1807.759+/-0.577  $\chi^2/\text{NDF}$ : 132784.9/5

Left: 1847.566+/-0.421  $\chi^2/\text{NDF}$ : 861283.5/12

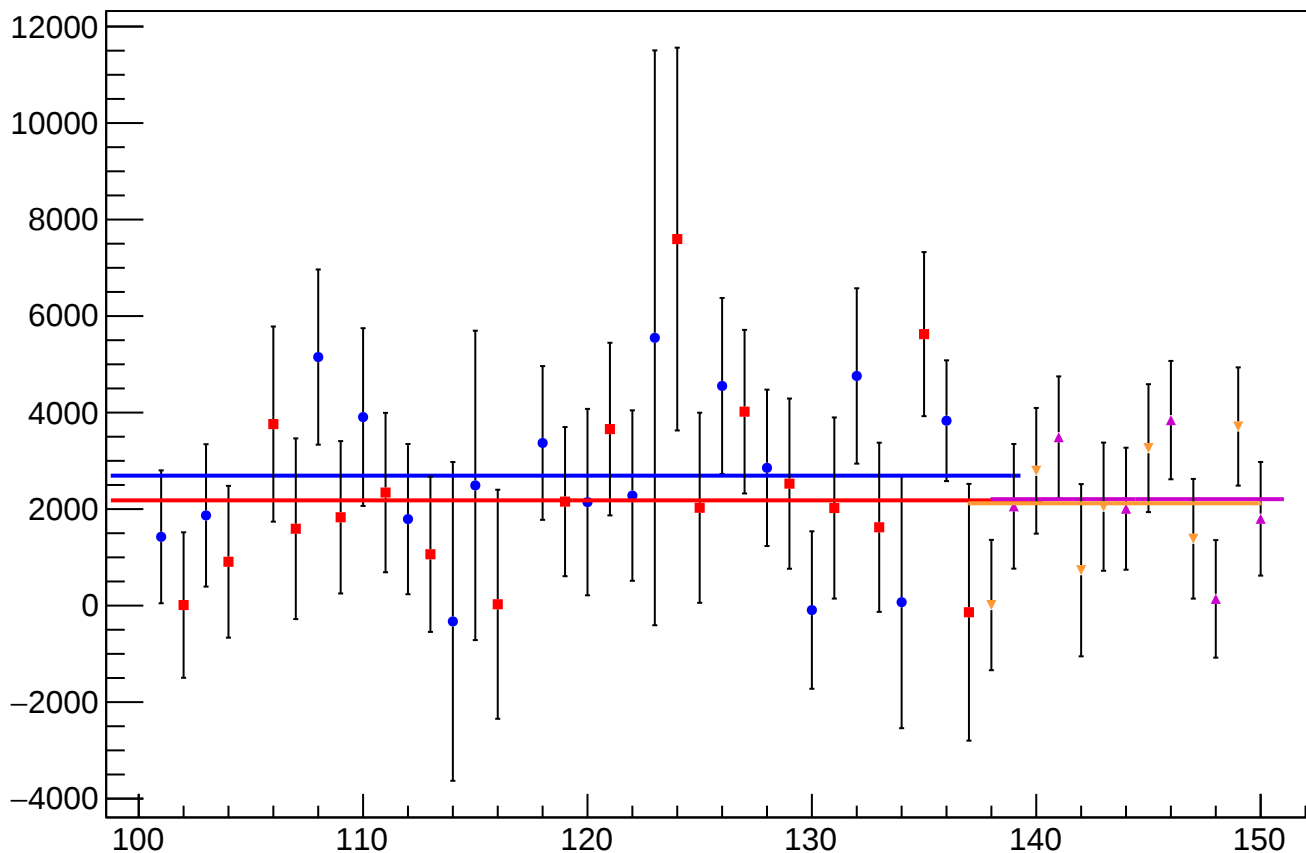
Right: 1508.969+/-0.293  $\chi^2/\text{NDF}$ : 732045.6/32

In: 1605.300+/-0.337  $\chi^2/\text{NDF}$ : 575618.9/21

Out: 1634.324+/-0.344  $\chi^2/\text{NDF}$ : 1449336.8/23

All: 1619.495+/-0.241  $\chi^2/\text{NDF}$ : 2028590.3/45

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



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

Left Out: 2119.840 $\pm$ 506.083  $\chi^2/\text{NDF}$ : 6.1/6

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

Left In: 2205.774 $\pm$ 505.439  $\chi^2/\text{NDF}$ : 5.9/5

Left: 2162.862 $\pm$ 357.627  $\chi^2/\text{NDF}$ : 12.0/12

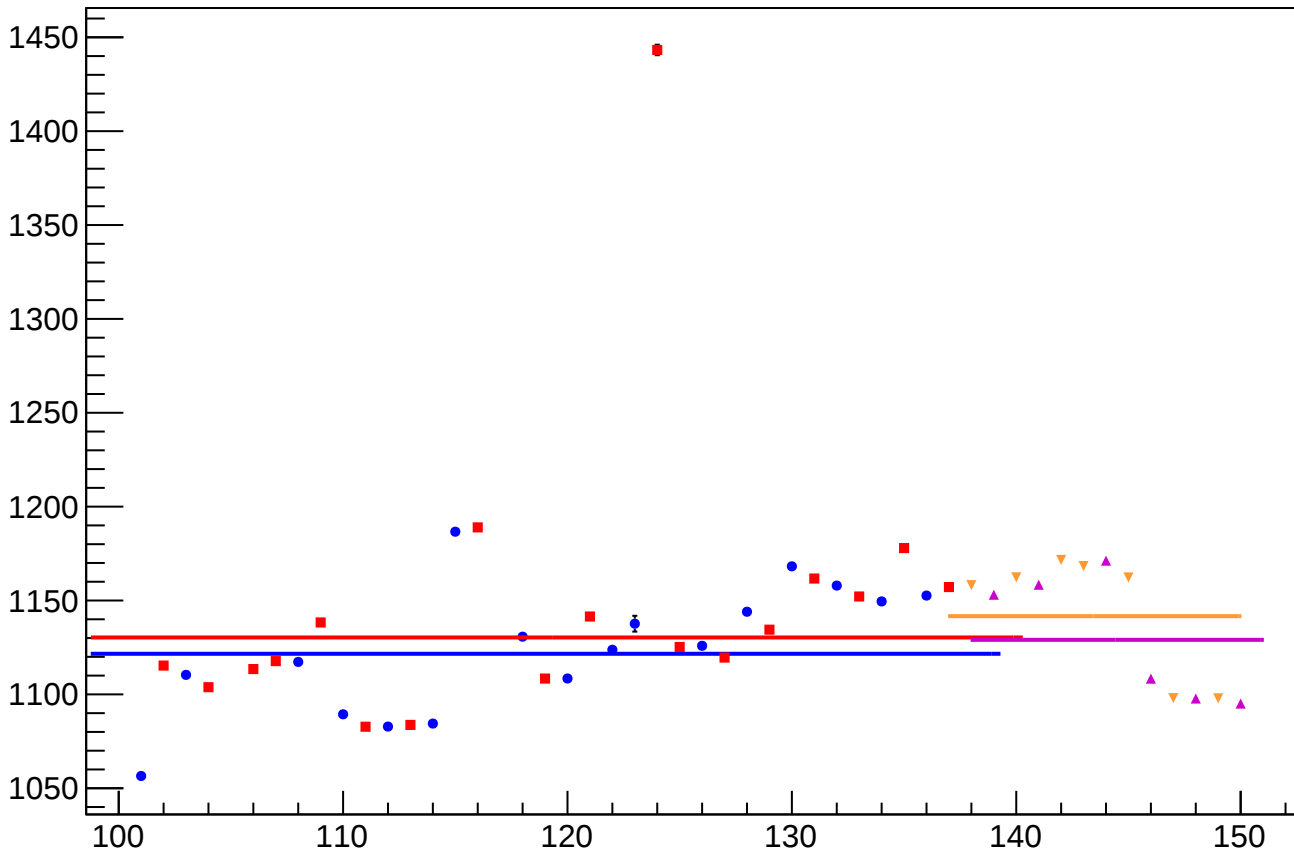
Right: 2432.714 $\pm$ 303.341  $\chi^2/\text{NDF}$ : 26.5/34

In: 2486.983 $\pm$ 328.665  $\chi^2/\text{NDF}$ : 18.6/22

Out: 2155.663 $\pm$ 325.662  $\chi^2/\text{NDF}$ : 19.6/24

All: 2319.803 $\pm$ 231.332  $\chi^2/\text{NDF}$ : 38.8/47

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



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

Left Out:  $1141.655 \pm 0.358$   $\chi^2/\text{NDF}: 7687.3/6$

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

Left In:  $1129.052 \pm 0.357$   $\chi^2/\text{NDF}: 7550.0/5$

Left:  $1135.346 \pm 0.253$   $\chi^2/\text{NDF}: 15858.2/12$

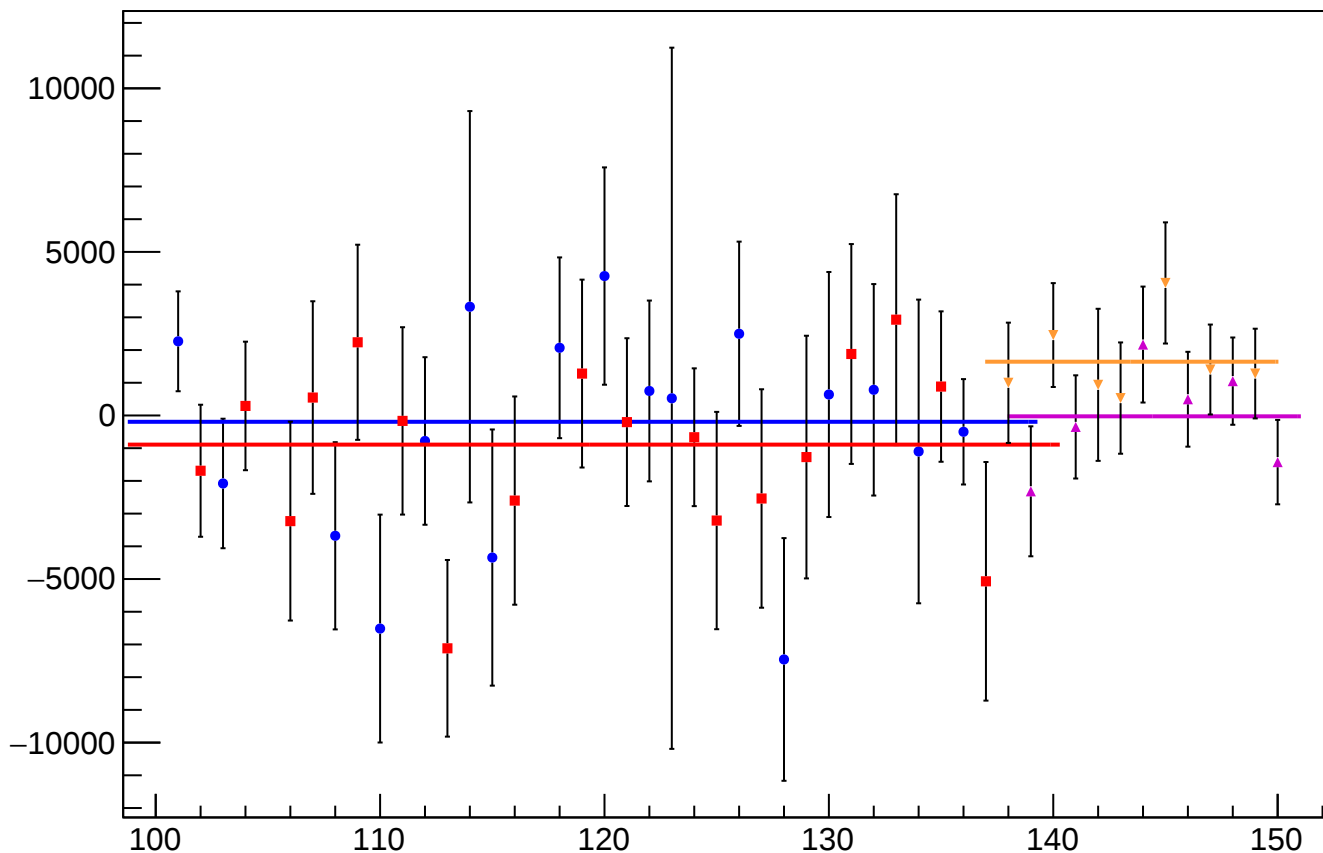
Right:  $1126.044 \pm 0.214$   $\chi^2/\text{NDF}: 33666.6/34$

In:  $1124.766 \pm 0.232$   $\chi^2/\text{NDF}: 19779.5/22$

Out:  $1135.011 \pm 0.230$   $\chi^2/\text{NDF}: 29551.7/24$

All:  $1129.936 \pm 0.164$   $\chi^2/\text{NDF}: 50311.7/47$

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



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

Left Out: 1643.599+/-622.988  $\chi^2/\text{NDF}$ : 2.7/6

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

Left In: -26.314+/-618.709  $\chi^2/\text{NDF}$ : 4.9/5

Left: 802.887+/-438.998  $\chi^2/\text{NDF}$ : 11.2/12

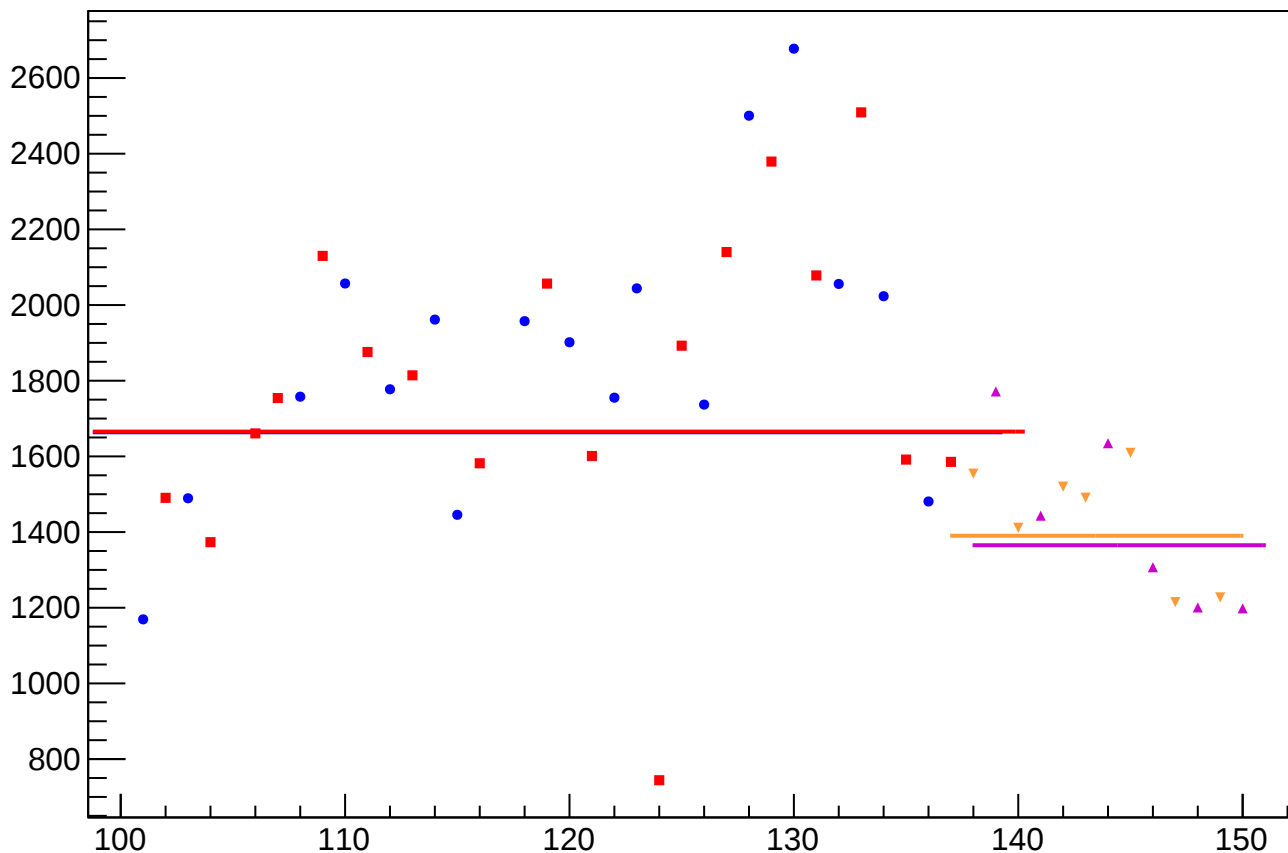
Right: -548.030+/-463.023  $\chi^2/\text{NDF}$ : 31.0/34

In: -104.391+/-451.500  $\chi^2/\text{NDF}$ : 22.3/22

Out: 428.871+/-449.568  $\chi^2/\text{NDF}$ : 23.7/24

All: 163.383+/-318.573  $\chi^2/\text{NDF}$ : 46.7/47

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



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

Left Out: 1390.276 $\pm$ 0.441  $\chi^2$ /NDF: 118377.5/6

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

Left In: 1365.182 $\pm$ 0.437  $\chi^2$ /NDF: 201984.4/5

Left: 1377.642 $\pm$ 0.310  $\chi^2$ /NDF: 321995.6/12

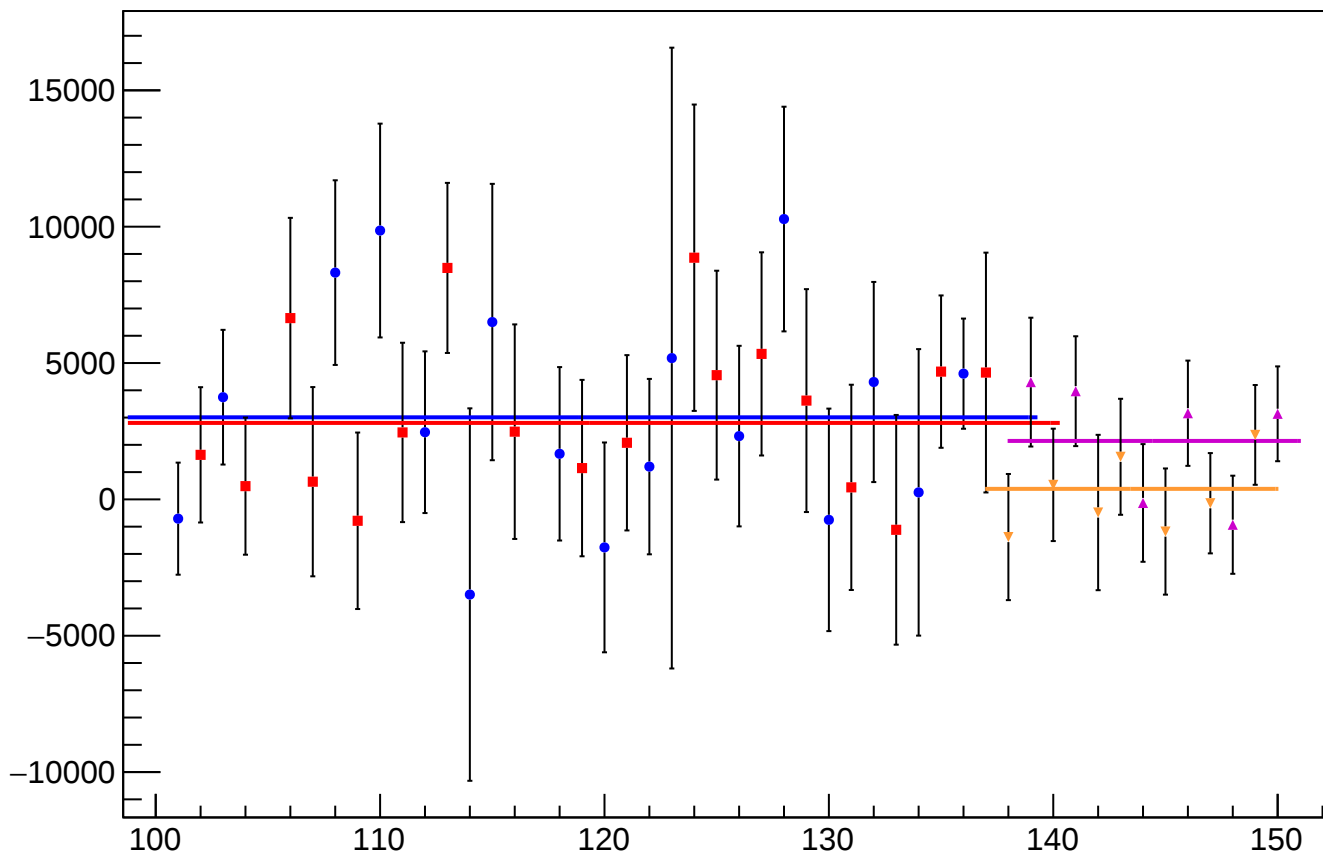
Right: 1664.637 $\pm$ 0.327  $\chi^2$ /NDF: 1425275.8/34

In: 1504.768 $\pm$ 0.319  $\chi^2$ /NDF: 1042225.2/22

Out: 1522.160 $\pm$ 0.318  $\chi^2$ /NDF: 1108192.7/24

All: 1513.501 $\pm$ 0.225  $\chi^2$ /NDF: 2151908.2/47

# asym\_usr\_mean vs Slug, Sign Corrected



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

Left Out: 385.831+/-803.732  $\chi^2/\text{NDF}$ : 2.7/6

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

Left In: 2143.460+/-803.531  $\chi^2/\text{NDF}$ : 6.3/5

Left: 1264.865+/-568.253  $\chi^2/\text{NDF}$ : 11.4/12

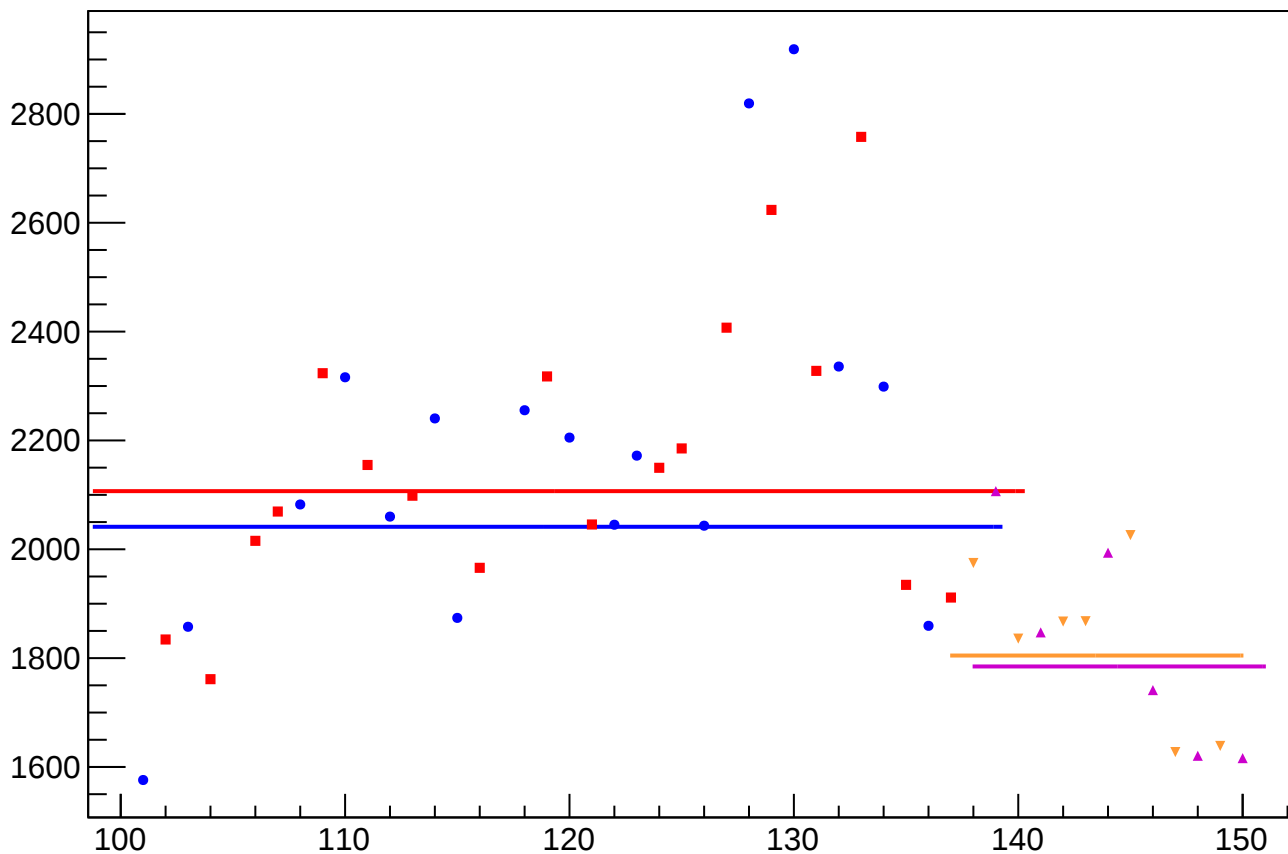
Right: 2906.573+/-565.416  $\chi^2/\text{NDF}$ : 28.6/34

In: 2578.422+/-566.804  $\chi^2/\text{NDF}$ : 24.3/22

Out: 1601.149+/-566.854  $\chi^2/\text{NDF}$ : 18.4/24

All: 2089.829+/-400.809  $\chi^2/\text{NDF}$ : 44.2/47

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 2041.348+/-0.565  $\chi^2/\text{NDF}$ : 338436.8/16

Left Out: 1804.766+/-0.568  $\chi^2/\text{NDF}$ : 67377.1/6

Right Out: 2106.845+/-0.565  $\chi^2/\text{NDF}$ : 196720.6/17

Left In: 1784.693+/-0.568  $\chi^2/\text{NDF}$ : 94320.8/5

Left: 1794.727+/-0.402  $\chi^2/\text{NDF}$ : 162321.9/12

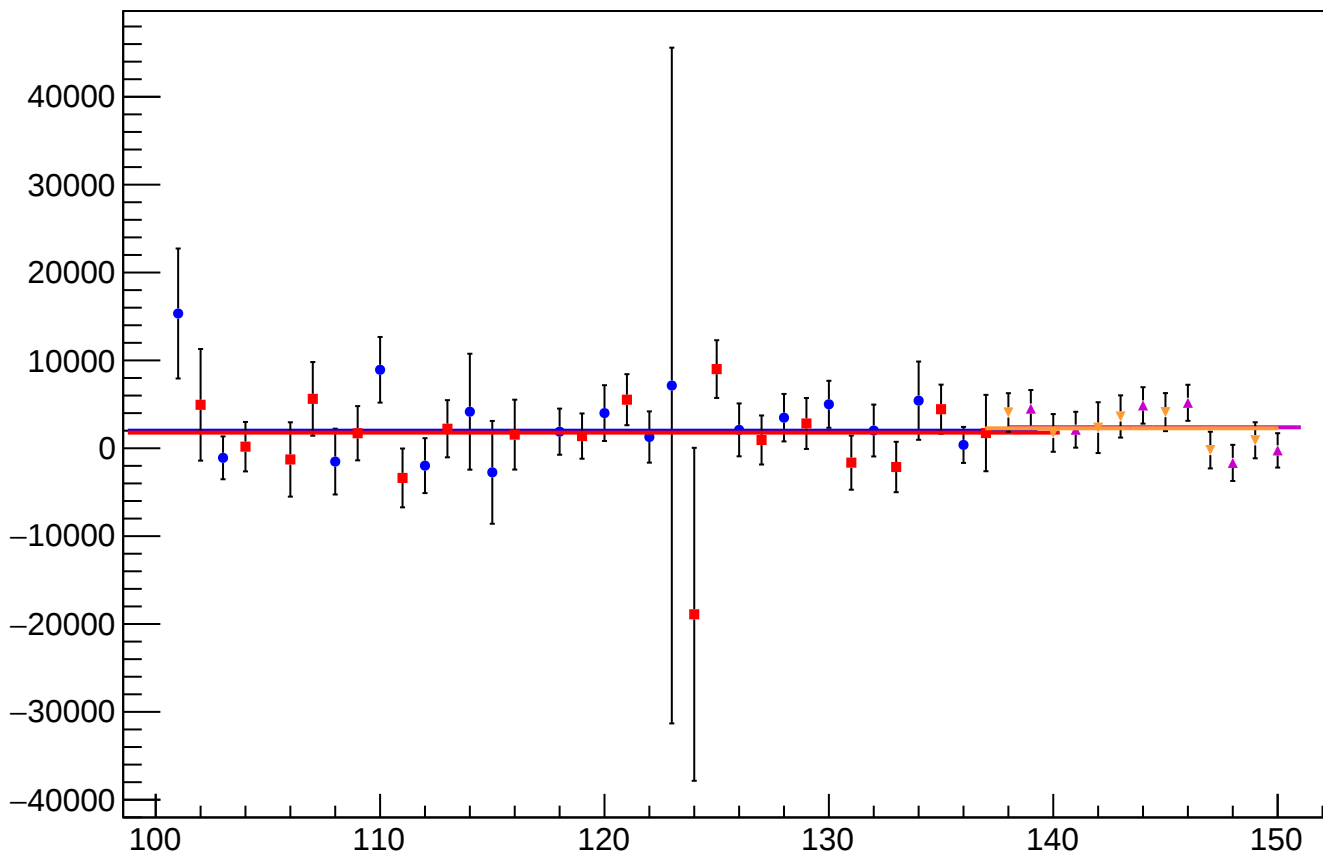
Right: 2074.099+/-0.400  $\chi^2/\text{NDF}$ : 541866.5/34

In: 1913.643+/-0.401  $\chi^2/\text{NDF}$ : 535274.4/22

Out: 1956.586+/-0.401  $\chi^2/\text{NDF}$ : 406086.9/24

All: 1935.112+/-0.283  $\chi^2/\text{NDF}$ : 947101.0/47

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



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

Left Out: 2276.078+/-845.827  $\chi^2/\text{NDF}$ : 3.6/6

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

Left In: 2388.987+/-835.738  $\chi^2/\text{NDF}$ : 10.0/5

Left: 2333.210+/-594.491  $\chi^2/\text{NDF}$ : 13.6/12

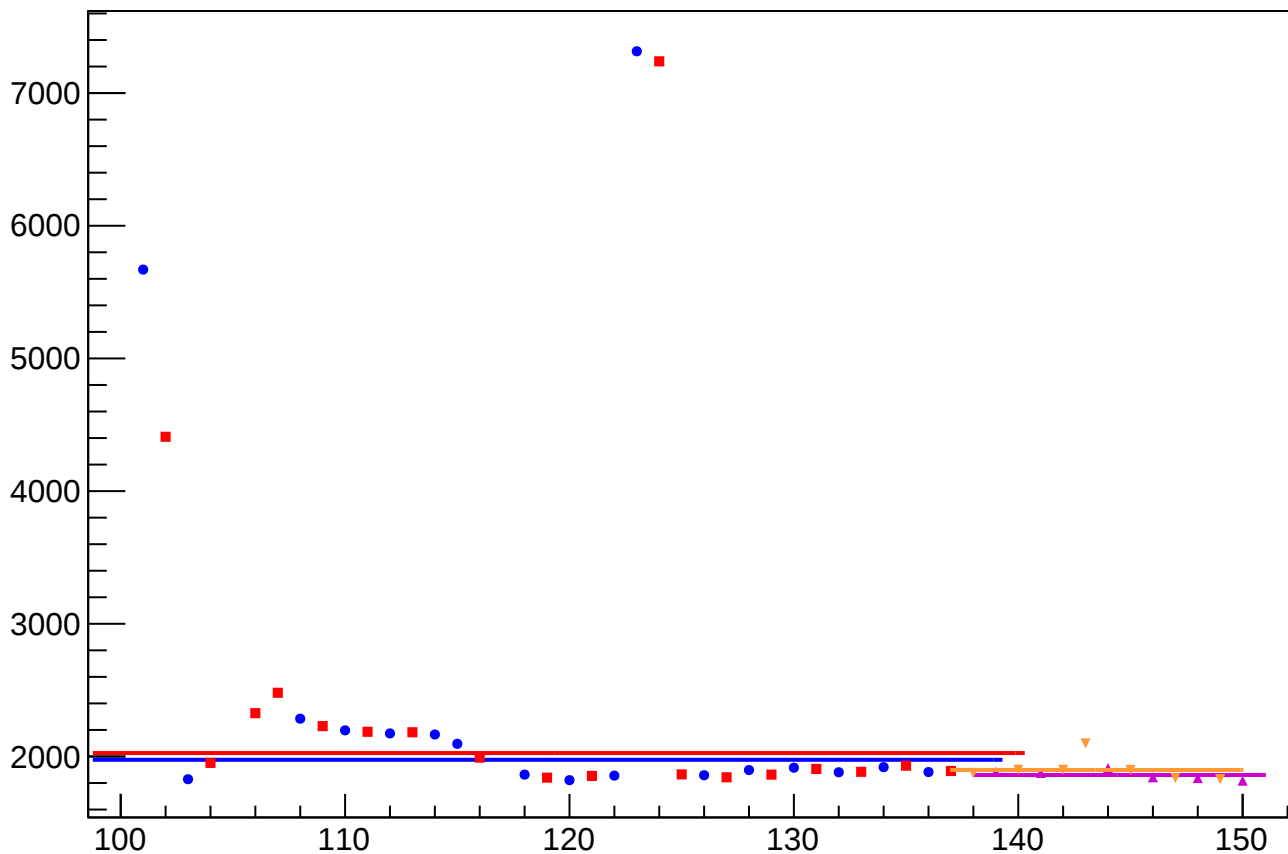
Right: 1890.892+/-552.762  $\chi^2/\text{NDF}$ : 31.1/34

In: 2181.436+/-570.859  $\chi^2/\text{NDF}$ : 24.9/22

Out: 2099.549+/-574.133  $\chi^2/\text{NDF}$ : 20.1/24

All: 2095.984+/-404.811  $\chi^2/\text{NDF}$ : 45.1/47

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



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

Left Out: 1898.420+/-0.598  $\chi^2/\text{NDF}$ :18033.9/6

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

Left In: 1860.662+/-0.591  $\chi^2/\text{NDF}$ :2909.5/5

Left: 1879.314+/-0.420  $\chi^2/\text{NDF}$ : 22960.0/12

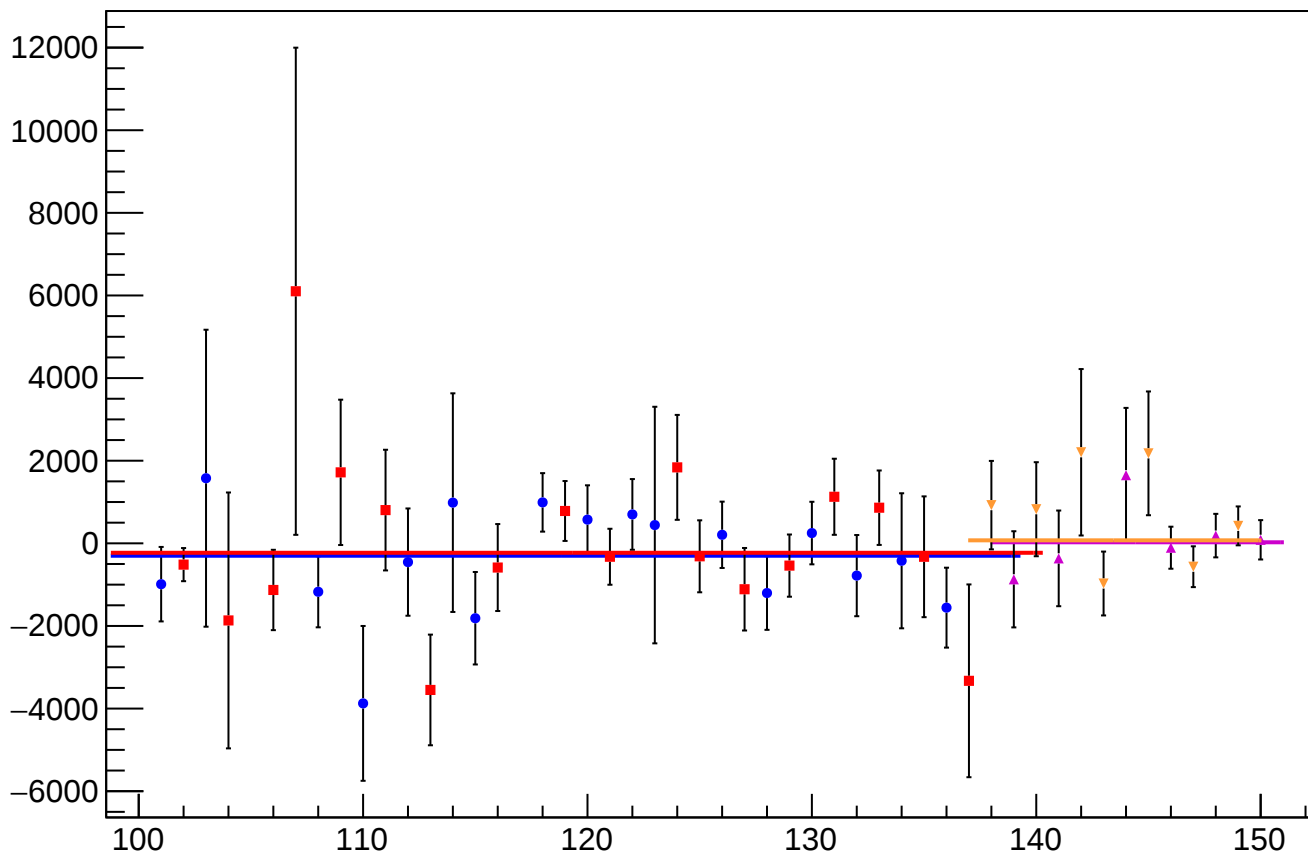
Right: 2000.483+/-0.391  $\chi^2/\text{NDF}$ : 1139433.4/34

In: 1921.711+/-0.404  $\chi^2/\text{NDF}$ :622747.9/22

Out: 1967.148+/-0.406  $\chi^2/\text{NDF}$ :577906.7/24

All: 1944.300+/-0.286  $\chi^2/\text{NDF}$ : 1206953.7/47

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



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

Left Out: 72.597 $\pm$ 281.519  $\chi^2$ /NDF:8.2/6

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

Left In: 25.303 $\pm$ 269.779  $\chi^2$ /NDF:1.9/5

Left: 47.943 $\pm$ 194.781  $\chi^2$ /NDF: 10.1/12

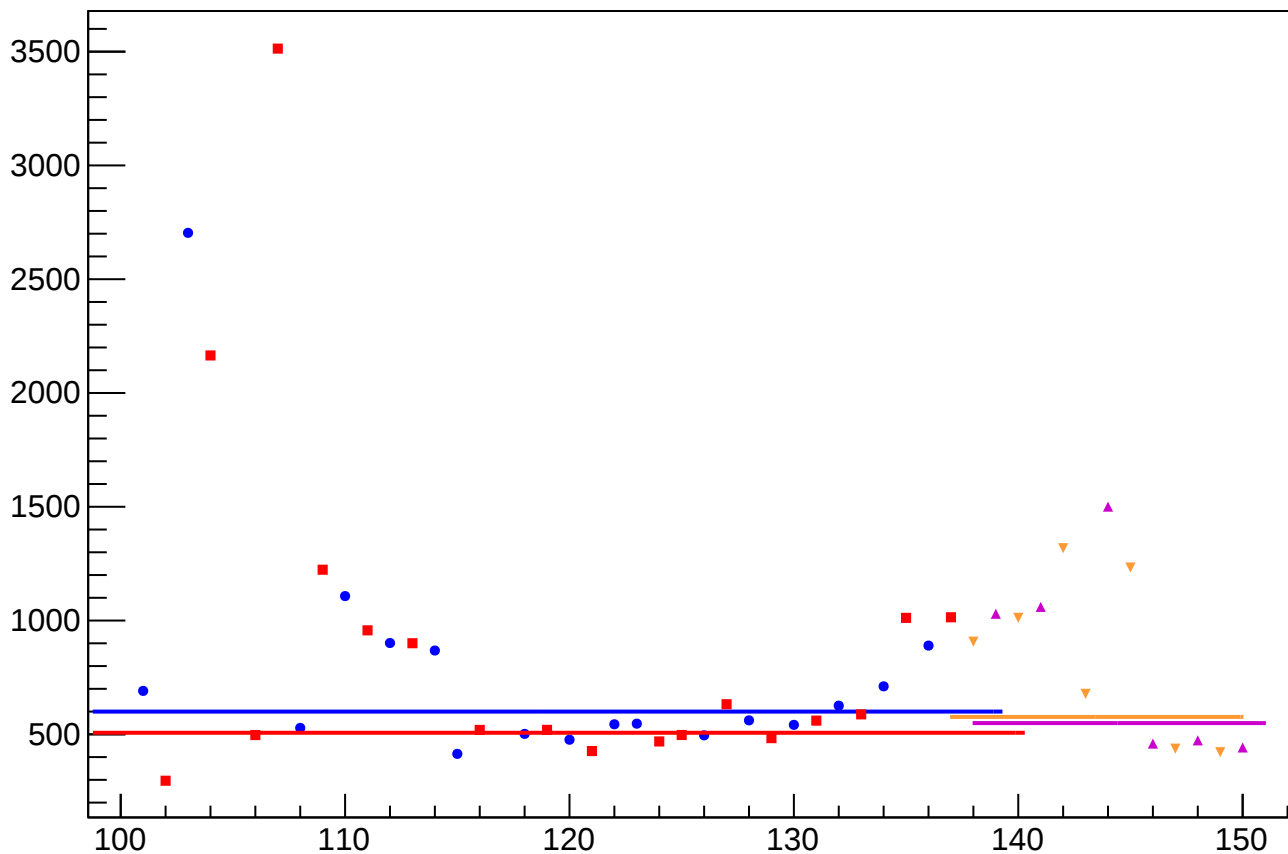
Right: -259.640 $\pm$ 162.327  $\chi^2$ /NDF: 39.2/34

In: -151.906 $\pm$ 182.023  $\chi^2$ /NDF:20.0/22

Out: -117.357 $\pm$ 171.181  $\chi^2$ /NDF:30.7/24

All: -133.572 $\pm$ 124.700  $\chi^2$ /NDF: 50.7/47

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



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

Left Out: 576.455+/-0.199  $\chi^2/\text{NDF}$ :1548700.2/6

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

Left In: 549.390+/-0.191  $\chi^2/\text{NDF}$ :1617129.2/5

Left: 562.346+/-0.138  $\chi^2/\text{NDF}$ : 3175465.8/12

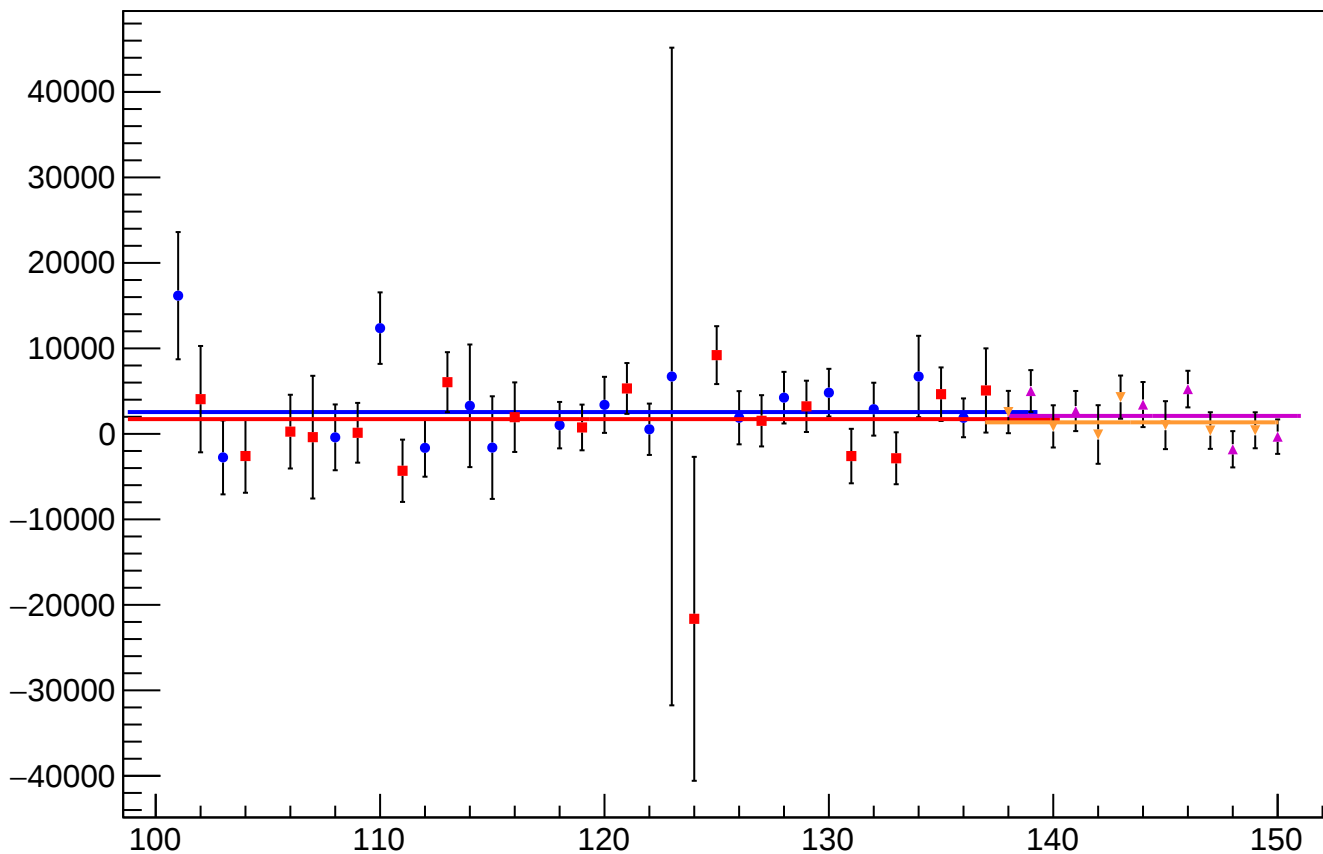
Right: 547.202+/-0.115  $\chi^2/\text{NDF}$ : 4303374.7/34

In: 576.935+/-0.129  $\chi^2/\text{NDF}$ :3036452.3/22

Out: 532.602+/-0.121  $\chi^2/\text{NDF}$ :4386563.9/24

All: 553.409+/-0.088  $\chi^2/\text{NDF}$ : 7485975.4/47

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



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

Left Out: 1350.202 $\pm$ 936.681  $\chi^2$ /NDF: 2.2/6

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

Left In: 2102.922 $\pm$ 920.755  $\chi^2$ /NDF: 8.7/5

Left: 1733.015 $\pm$ 656.630  $\chi^2$ /NDF: 11.3/12

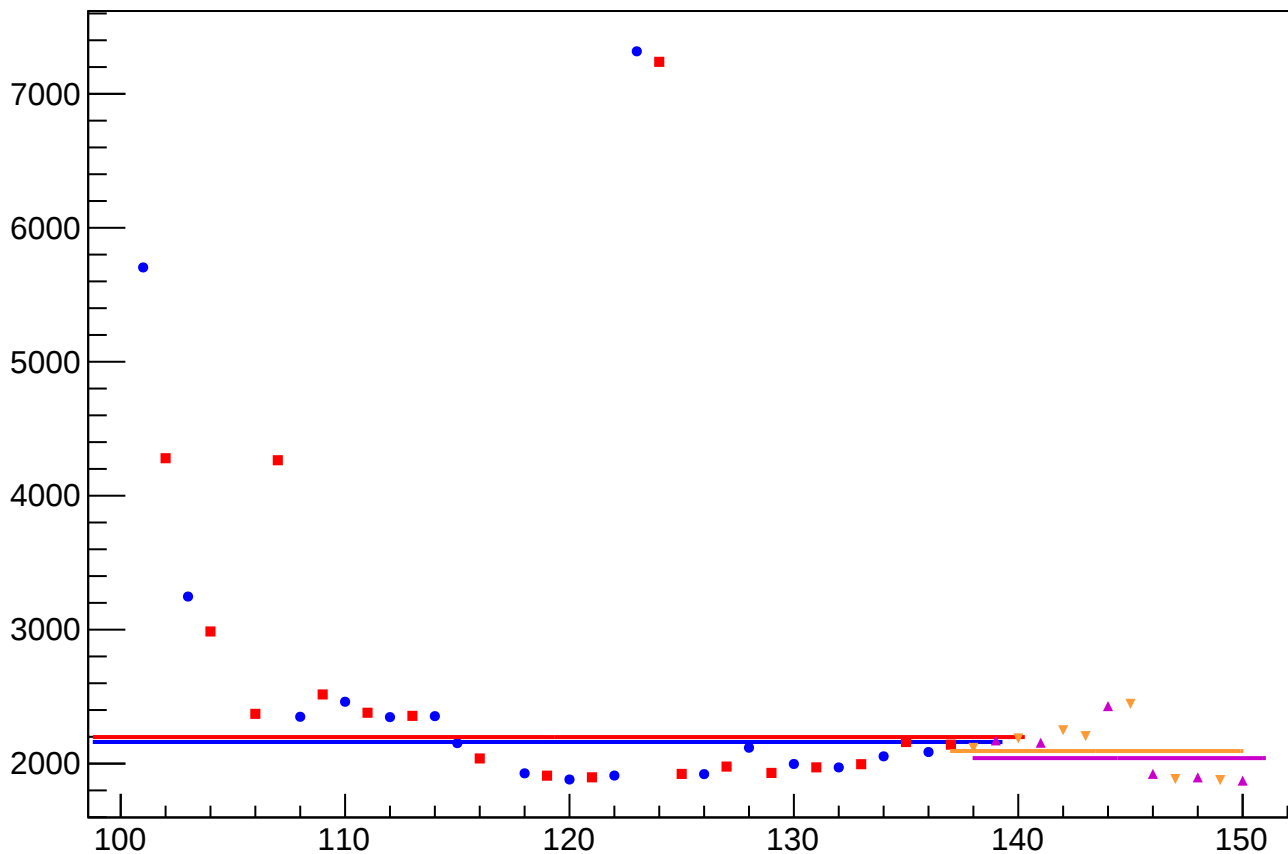
Right: 2138.530 $\pm$ 606.010  $\chi^2$ /NDF: 35.7/34

In: 2343.903 $\pm$ 628.066  $\chi^2$ /NDF: 24.6/22

Out: 1555.748 $\pm$ 631.548  $\chi^2$ /NDF: 21.8/24

All: 1952.004 $\pm$ 445.336  $\chi^2$ /NDF: 47.2/47

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



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

Left Out: 2093.910 $\pm$ 0.662  $\chi^2/\text{NDF}$ : 82867.2/6

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

Left In: 2041.027 $\pm$ 0.651  $\chi^2/\text{NDF}$ : 83168.5/5

Left: 2067.015 $\pm$ 0.464  $\chi^2/\text{NDF}$ : 169277.9/12

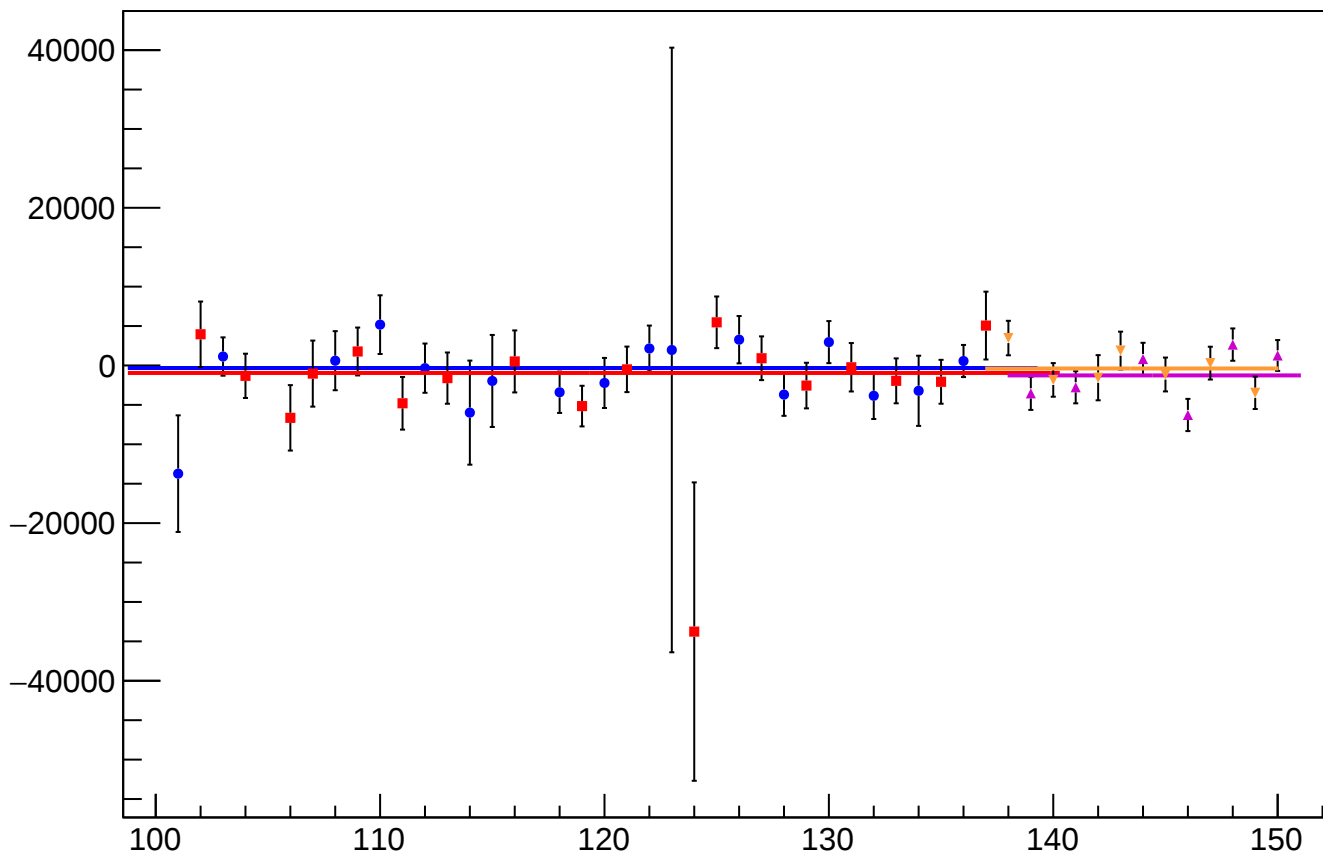
Right: 2179.883 $\pm$ 0.429  $\chi^2/\text{NDF}$ : 1446967.4/34

In: 2105.402 $\pm$ 0.444  $\chi^2/\text{NDF}$ : 812705.0/22

Out: 2150.783 $\pm$ 0.447  $\chi^2/\text{NDF}$ : 830259.6/24

All: 2127.967 $\pm$ 0.315  $\chi^2/\text{NDF}$ : 1648156.7/47

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



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

Left Out: -384.553+/-842.586  $\chi^2/\text{NDF}$ : 7.1/6

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

Left In: -1262.895+/-832.761  $\chi^2/\text{NDF}$ : 14.1/5

Left: -828.874+/-592.294  $\chi^2/\text{NDF}$ : 21.8/12

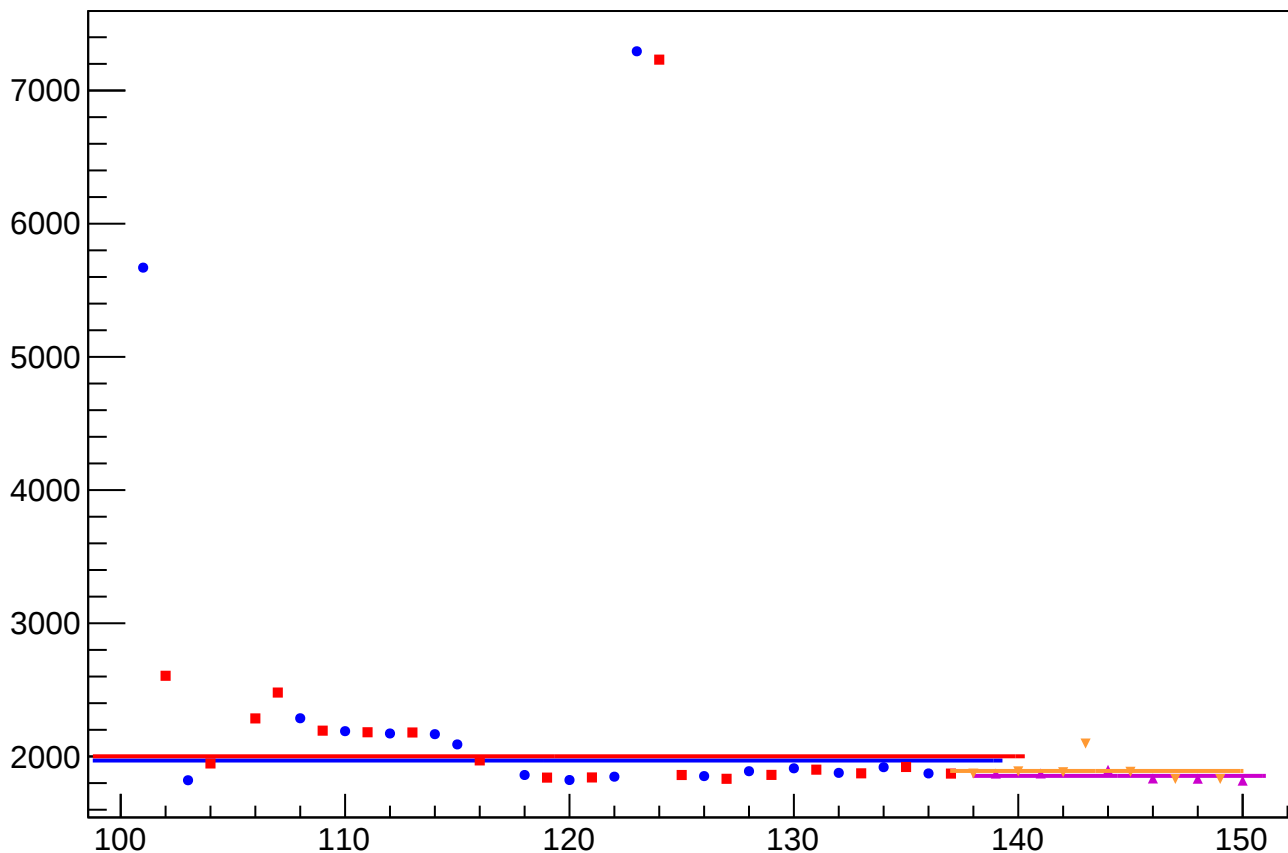
Right: -641.256+/-547.905  $\chi^2/\text{NDF}$ : 34.3/34

In: -762.330+/-569.091  $\chi^2/\text{NDF}$ : 30.5/22

Out: -693.283+/-568.519  $\chi^2/\text{NDF}$ : 25.6/24

All: -727.772+/-402.206  $\chi^2/\text{NDF}$ : 56.1/47

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



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

Left Out: 1891.166+/-0.596  $\chi^2/\text{NDF}$ :18255.4/6

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

Left In: 1854.173+/-0.589  $\chi^2/\text{NDF}$ :2302.1/5

Left: 1872.453+/-0.419  $\chi^2/\text{NDF}$ : 22507.6/12

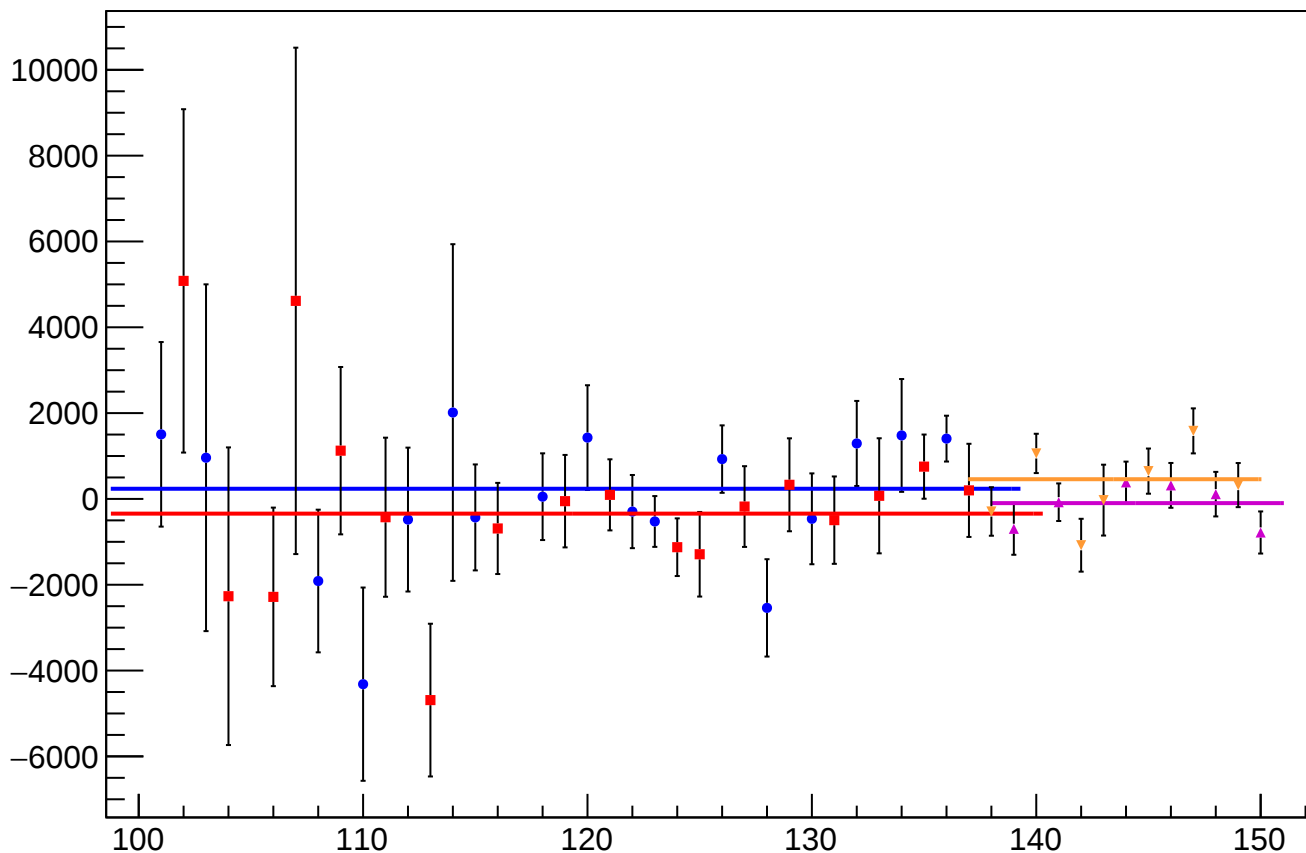
Right: 1985.524+/-0.387  $\chi^2/\text{NDF}$ : 895106.7/34

In: 1915.639+/-0.402  $\chi^2/\text{NDF}$ :625554.7/22

Out: 1951.094+/-0.402  $\chi^2/\text{NDF}$ :327452.2/24

All: 1933.384+/-0.284  $\chi^2/\text{NDF}$ : 956892.2/47

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



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

Left Out: 459.109 $\pm$ 208.381  $\chi^2$ /NDF:14.9/6

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

Left In: -97.782 $\pm$ 205.125  $\chi^2$ /NDF:4.7/5

Left: 176.279 $\pm$ 146.183  $\chi^2$ /NDF: 23.2/12

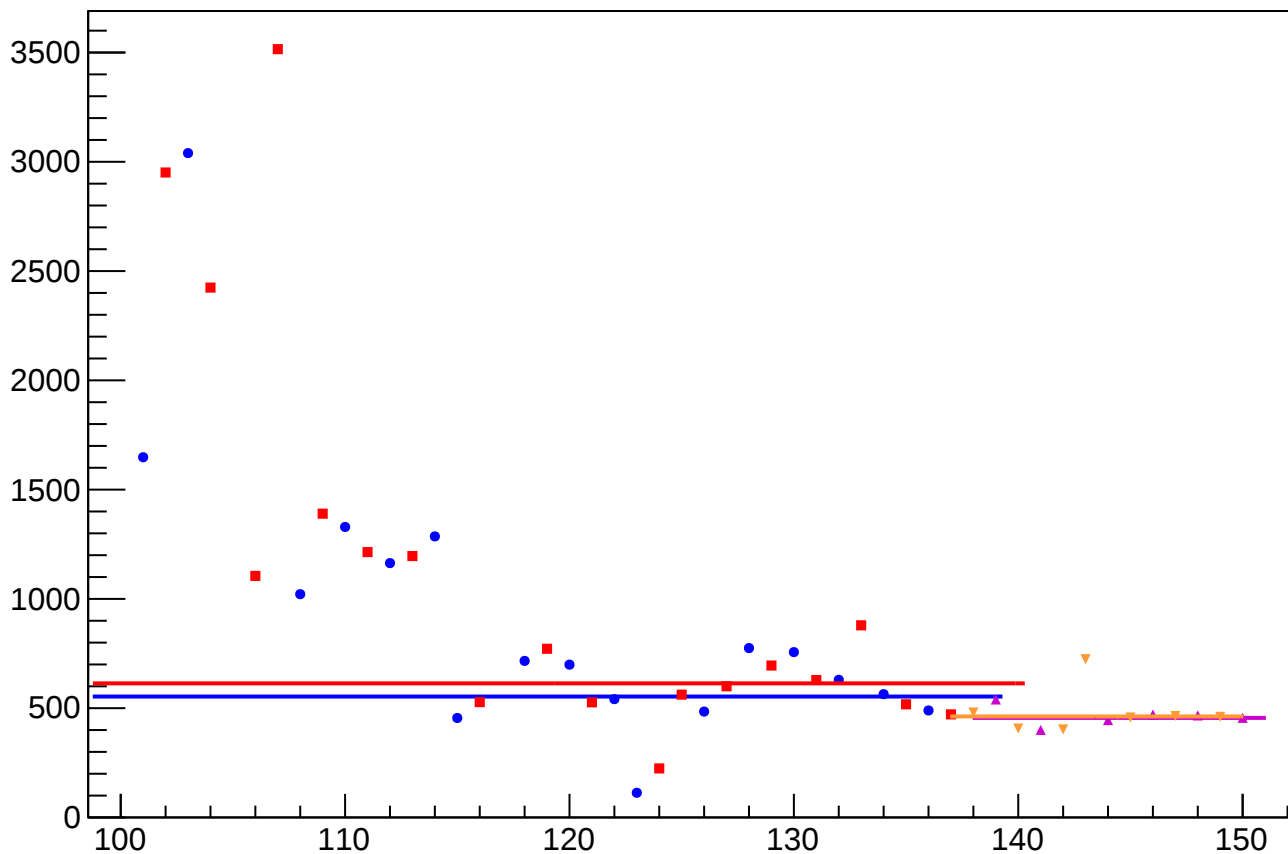
Right: -30.610 $\pm$ 182.443  $\chi^2$ /NDF: 42.3/34

In: 37.765 $\pm$ 158.220  $\chi^2$ /NDF:29.7/22

Out: 157.781 $\pm$ 164.639  $\chi^2$ /NDF:36.4/24

All: 95.388 $\pm$ 114.080  $\chi^2$ /NDF: 66.3/47

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:  $462.185 \pm 0.147$   $\chi^2/\text{NDF}$ : 251344.5/6

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

Left In:  $455.576 \pm 0.145$   $\chi^2/\text{NDF}$ : 73844.0/5

Left:  $458.829 \pm 0.103$   $\chi^2/\text{NDF}$ : 326210.2/12

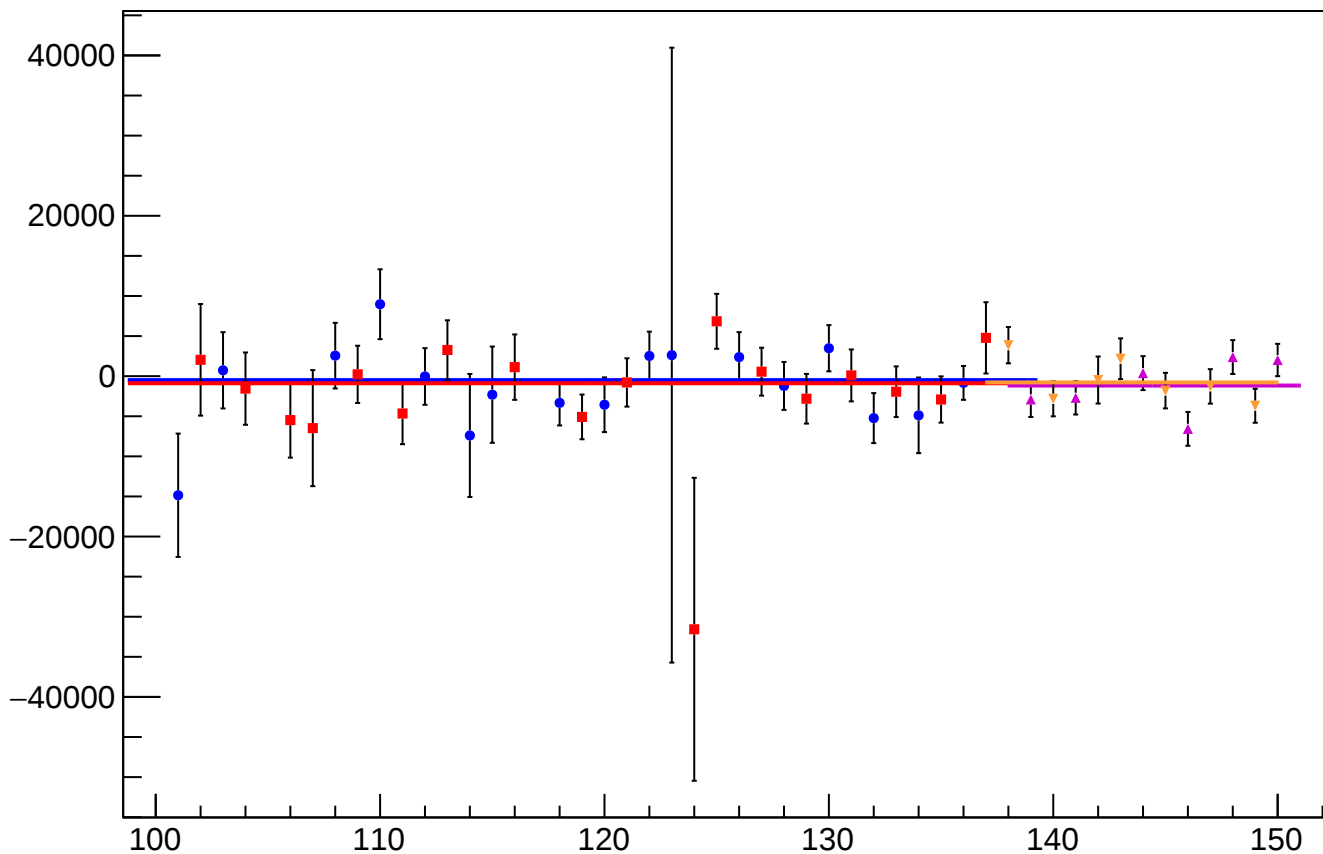
Right:  $581.103 \pm 0.129$   $\chi^2/\text{NDF}$ : 6943410.9/34

In:  $495.151 \pm 0.112$   $\chi^2/\text{NDF}$ : 3670379.6/22

Out:  $519.073 \pm 0.116$   $\chi^2/\text{NDF}$ : 4124394.8/24

All:  $506.636 \pm 0.081$   $\chi^2/\text{NDF}$ : 7816725.6/47

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



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

Left Out: -776.021+/-870.776  $\chi^2/\text{NDF}$ : 8.6/6

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

Left In: -1168.515+/-858.680  $\chi^2/\text{NDF}$ : 13.6/5

Left: -975.013+/-611.410  $\chi^2/\text{NDF}$ : 22.3/12

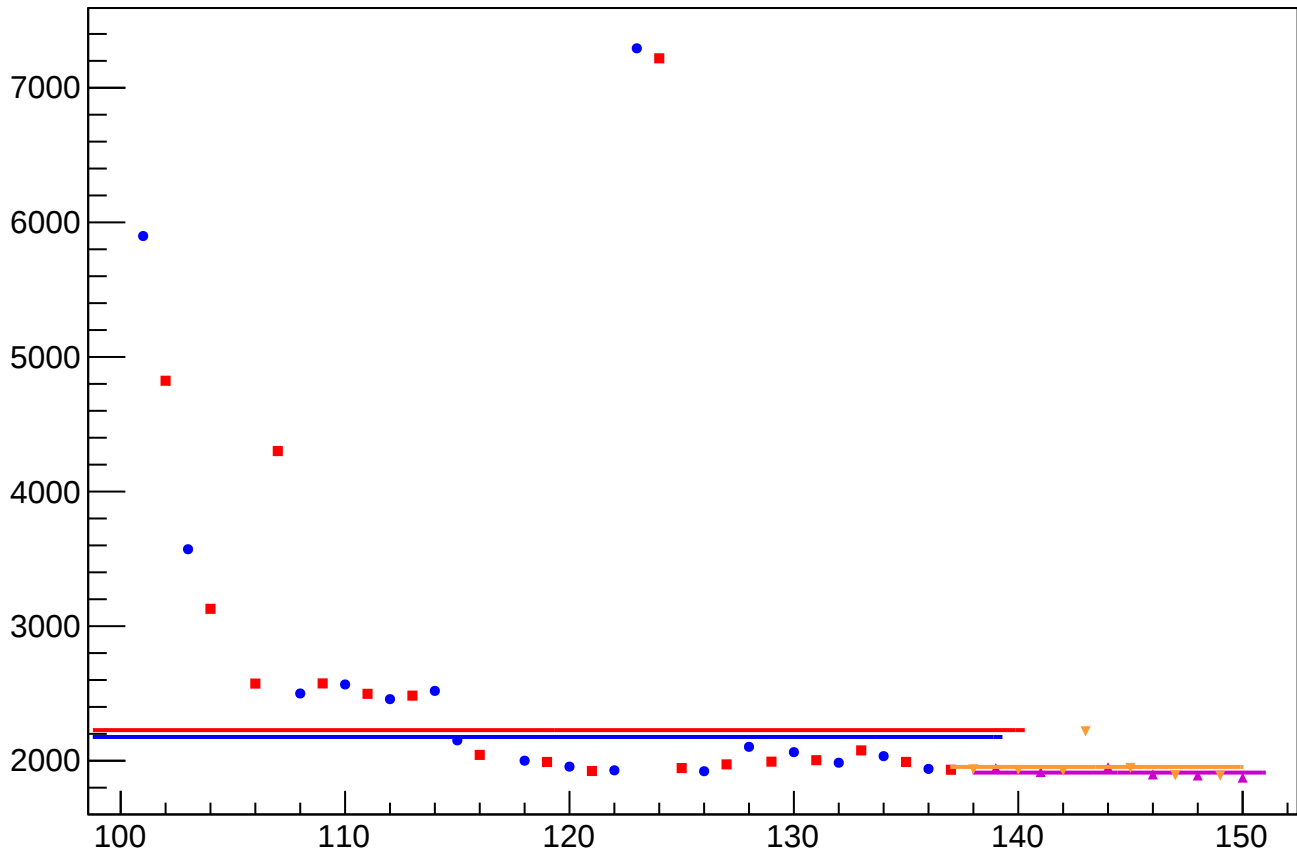
Right: -688.036+/-614.167  $\chi^2/\text{NDF}$ : 35.9/34

In: -833.875+/-610.443  $\chi^2/\text{NDF}$ : 32.4/22

Out: -830.439+/-615.153  $\chi^2/\text{NDF}$ : 25.9/24

All: -832.170+/-433.304  $\chi^2/\text{NDF}$ : 58.3/47

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



Right In: 2176.746 +/- 0.614  $\chi^2/\text{NDF}$ : 802677.9/16

Left Out: 1954.037 +/- 0.616  $\chi^2/\text{NDF}$ : 25811.9/6

Right Out: 2227.688 +/- 0.615  $\chi^2/\text{NDF}$ : 825665.5/17

Left In: 1912.092 +/- 0.607  $\chi^2/\text{NDF}$ : 2169.8/5

Left: 1932.771 +/- 0.432  $\chi^2/\text{NDF}$ : 30334.4/12

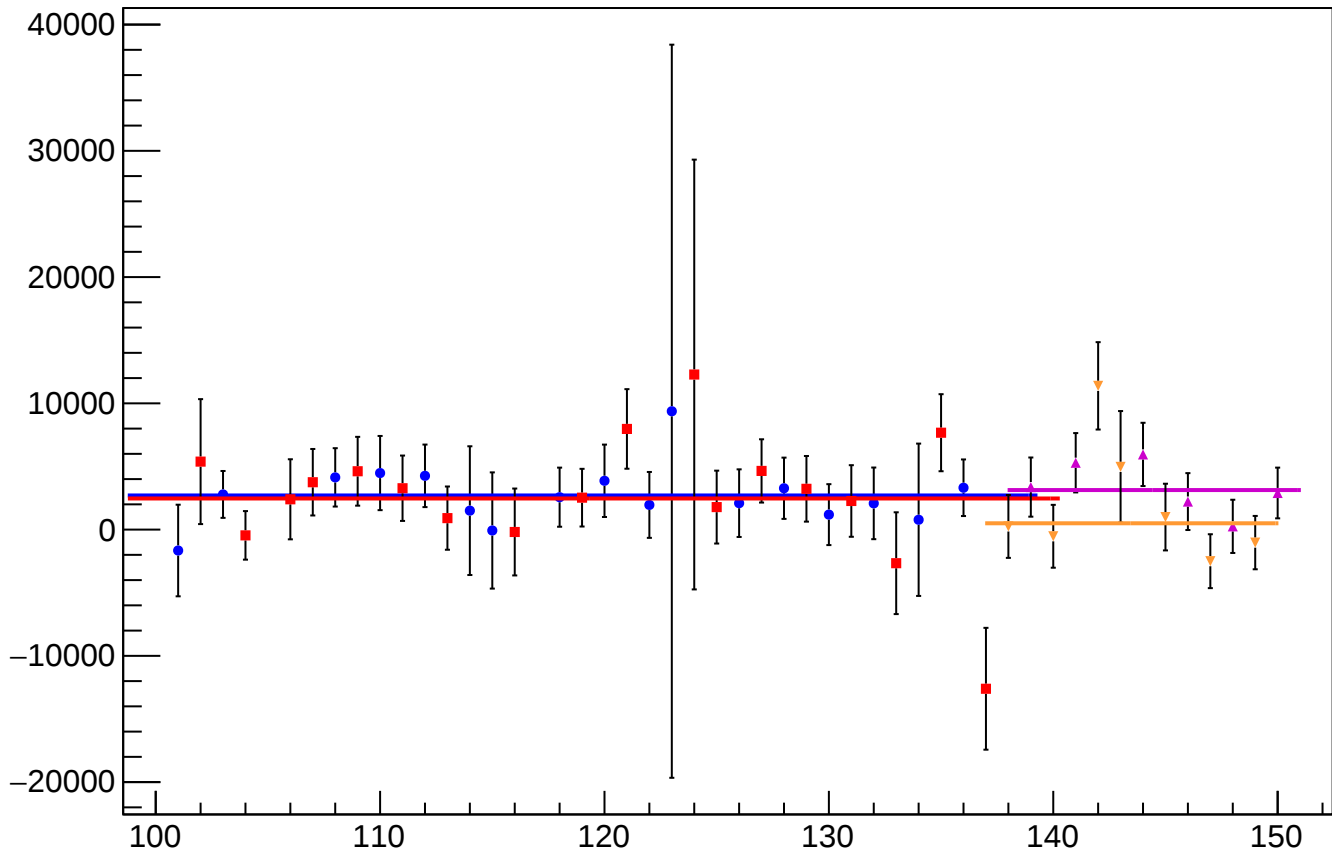
Right: 2202.183 +/- 0.434  $\chi^2/\text{NDF}$ : 1631783.3/34

In: 2042.992 +/- 0.432  $\chi^2/\text{NDF}$ : 898817.4/22

Out: 2091.120 +/- 0.435  $\chi^2/\text{NDF}$ : 950423.6/24

All: 2066.871 +/- 0.306  $\chi^2/\text{NDF}$ : 1855409.0/47

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



Right In: 2703.508 $\pm$ 673.898  $\chi^2$ /NDF: 4.0/16

Left Out: 500.229 $\pm$ 978.621  $\chi^2$ /NDF:13.6/6

Right Out: 2464.583 $\pm$ 683.276  $\chi^2$ /NDF: 23.2/17

Left In: 3131.980 $\pm$ 915.753  $\chi^2$ /NDF:4.2/5

Left: 1903.348 $\pm$ 668.656  $\chi^2$ /NDF: 21.7/12

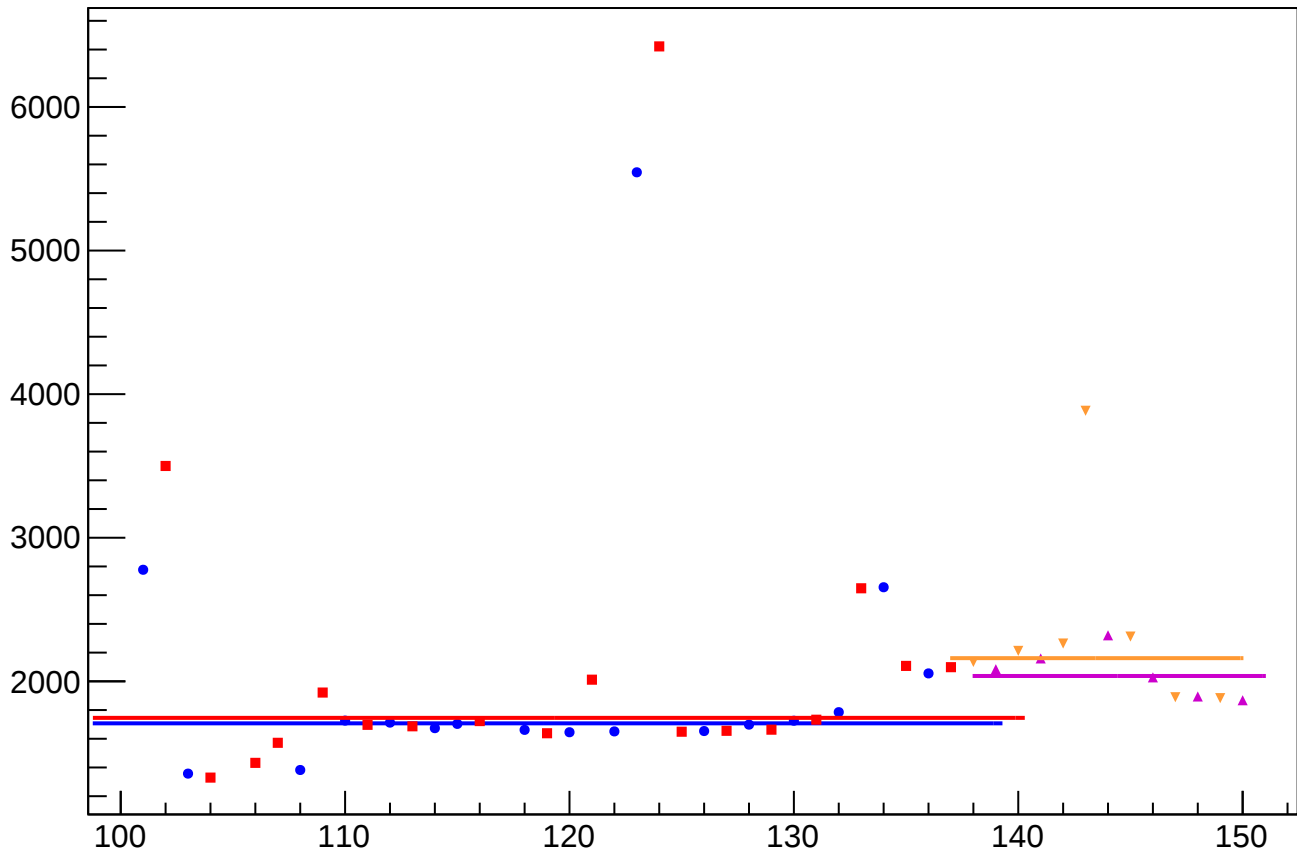
Right: 2585.697 $\pm$ 479.799  $\chi^2$ /NDF: 27.3/34

In: 2854.030 $\pm$ 542.771  $\chi^2$ /NDF:8.3/22

Out: 1820.814 $\pm$ 560.234  $\chi^2$ /NDF:39.5/24

All: 2353.776 $\pm$ 389.825  $\chi^2$ /NDF: 49.6/47

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



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

Left Out: 2161.359+/-0.692  $\chi^2/\text{NDF}$ : 380365.2/6

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

Left In: 2037.215+/-0.648  $\chi^2/\text{NDF}$ : 55153.9/5

Left: 2095.172+/-0.473  $\chi^2/\text{NDF}$ : 452678.3/12

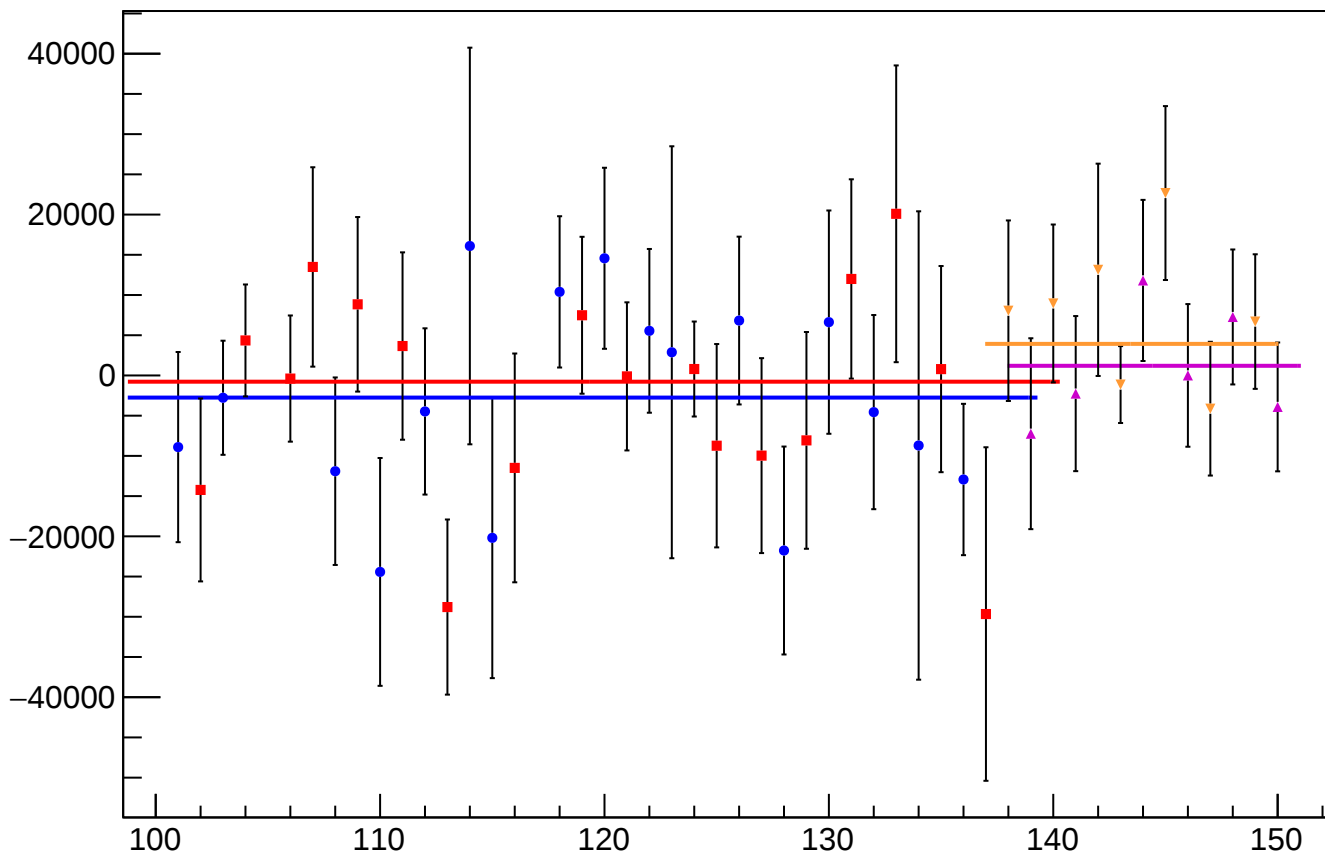
Right: 1726.210+/-0.339  $\chi^2/\text{NDF}$ : 1124571.0/34

In: 1823.255+/-0.384  $\chi^2/\text{NDF}$ : 645625.1/22

Out: 1881.771+/-0.396  $\chi^2/\text{NDF}$ : 1322385.1/24

All: 1851.592+/-0.276  $\chi^2/\text{NDF}$ : 1979267.7/47

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



Right In: -2750.725+/-2842.399  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: 3925.109+/-3083.916  $\chi^2/\text{NDF}$ : 6.1/6

Right Out: -774.921+/-2440.788  $\chi^2/\text{NDF}$ : 17.7/17

Left In: 1200.698+/-3770.373  $\chi^2/\text{NDF}$ : 2.7/5

Left: 2833.044+/-2387.109  $\chi^2/\text{NDF}$ : 9.1/12

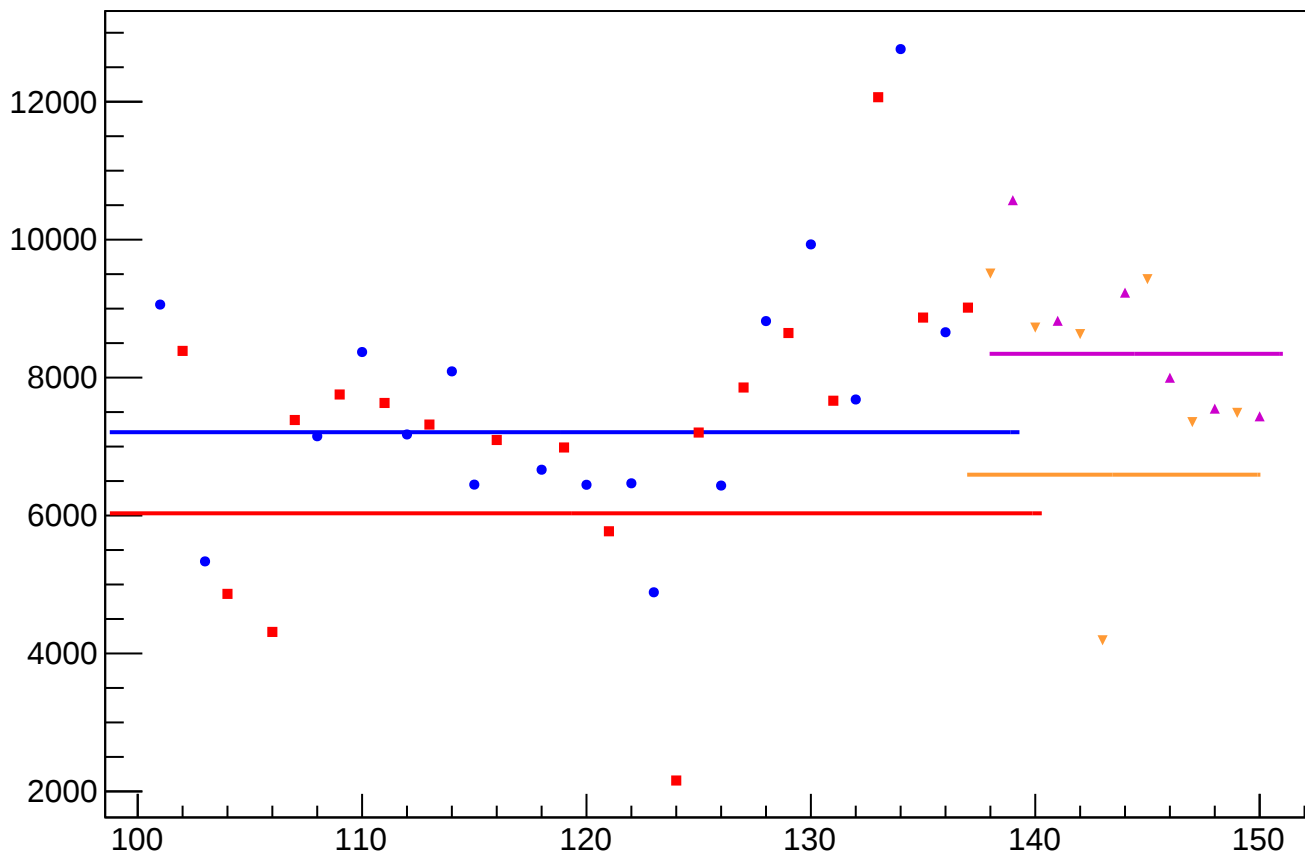
Right: -1613.491+/-1851.753  $\chi^2/\text{NDF}$ : 32.6/34

In: -1318.810+/-2269.688  $\chi^2/\text{NDF}$ : 18.0/22

Out: 1035.281+/-1913.885  $\chi^2/\text{NDF}$ : 25.2/24

All: 57.008+/-1463.136  $\chi^2/\text{NDF}$ : 43.8/47

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



Right In: 7208.346 $\pm$ 2.010  $\chi^2$ /NDF: 493749.9/16

Left Out: 6592.310 $\pm$ 2.181  $\chi^2$ /NDF: 959264.7/6

Right Out: 6032.193 $\pm$ 1.726  $\chi^2$ /NDF: 1797562.8/17

Left In: 8344.829 $\pm$ 2.666  $\chi^2$ /NDF: 137723.5/5

Left: 7294.798 $\pm$ 1.688  $\chi^2$ /NDF: 1355884.9/12

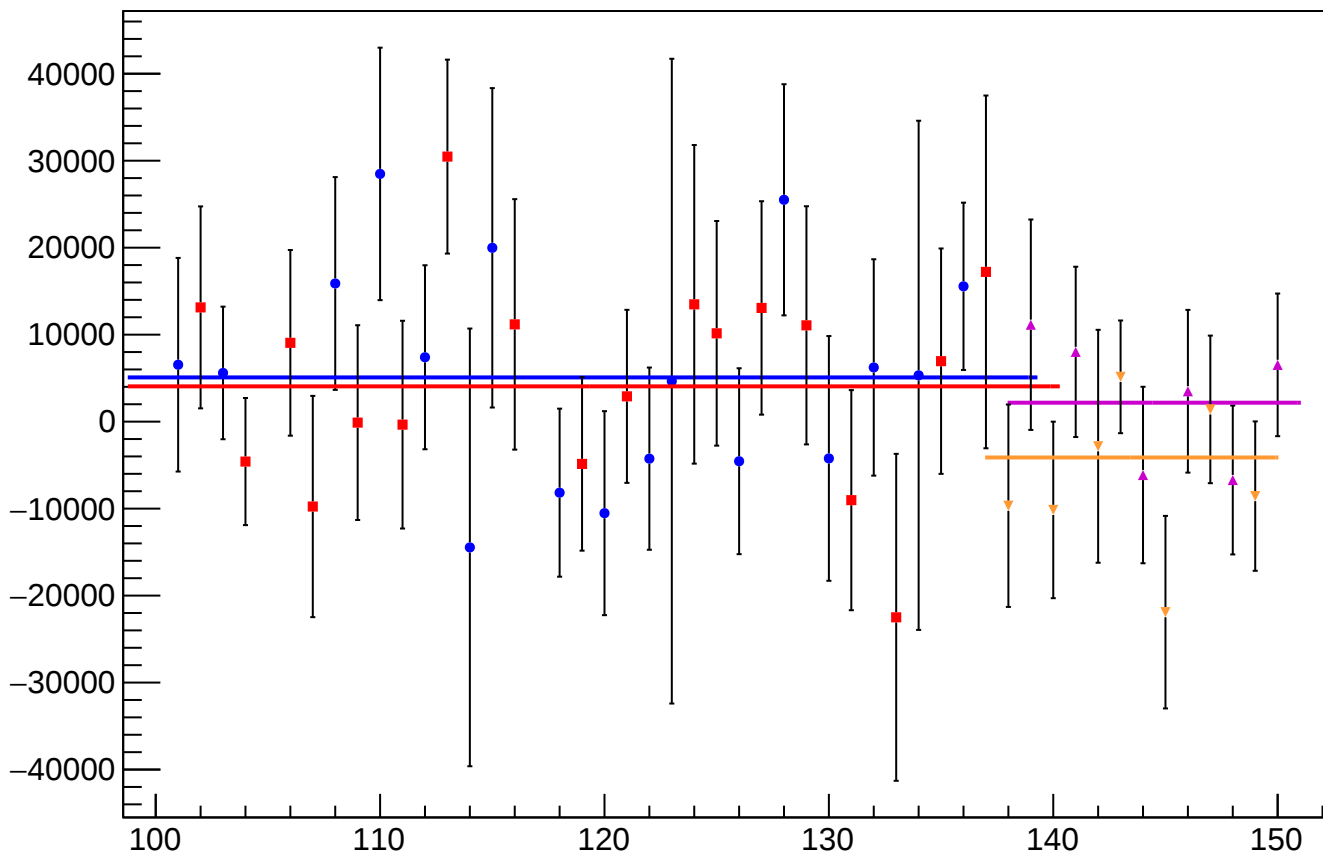
Right: 6531.375 $\pm$ 1.309  $\chi^2$ /NDF: 2488415.8/34

In: 7620.184 $\pm$ 1.605  $\chi^2$ /NDF: 747337.7/22

Out: 6247.920 $\pm$ 1.353  $\chi^2$ /NDF: 2797392.8/24

All: 6818.182 $\pm$ 1.035  $\chi^2$ /NDF: 3972008.9/47

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



Right In: 5084.628+/-2955.245  $\chi^2/\text{NDF}$ : 14.0/16

Left Out: -4121.658+/-3489.708  $\chi^2/\text{NDF}$ : 5.9/6

Right Out: 4055.589+/-2800.076  $\chi^2/\text{NDF}$ : 15.2/17

Left In: 2176.127+/-3865.284  $\chi^2/\text{NDF}$ : 3.0/5

Left: -1293.520+/-2590.227  $\chi^2/\text{NDF}$ : 10.3/12

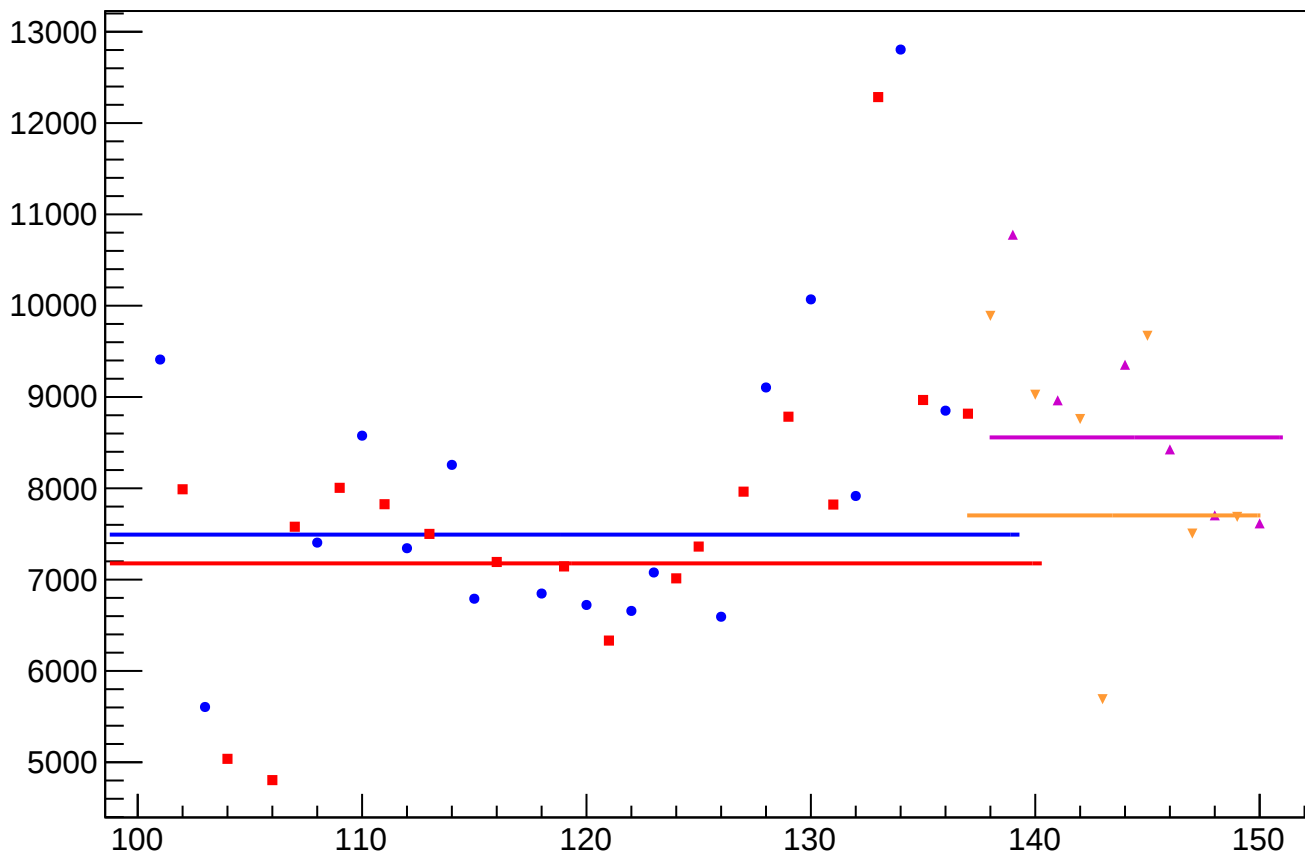
Right: 4542.385+/-2032.595  $\chi^2/\text{NDF}$ : 29.2/34

In: 4011.661+/-2347.686  $\chi^2/\text{NDF}$ : 17.3/22

Out: 852.895+/-2183.953  $\chi^2/\text{NDF}$ : 24.4/24

All: 2318.297+/-1599.041  $\chi^2/\text{NDF}$ : 42.7/47

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



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

Left Out: 7703.151 $\pm$ 2.468  $\chi^2/\text{NDF}$ : 374217.8/6

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

Left In: 8557.491 $\pm$ 2.733  $\chi^2/\text{NDF}$ : 129752.2/5

Left: 8086.808 $\pm$ 1.832  $\chi^2/\text{NDF}$ : 557800.3/12

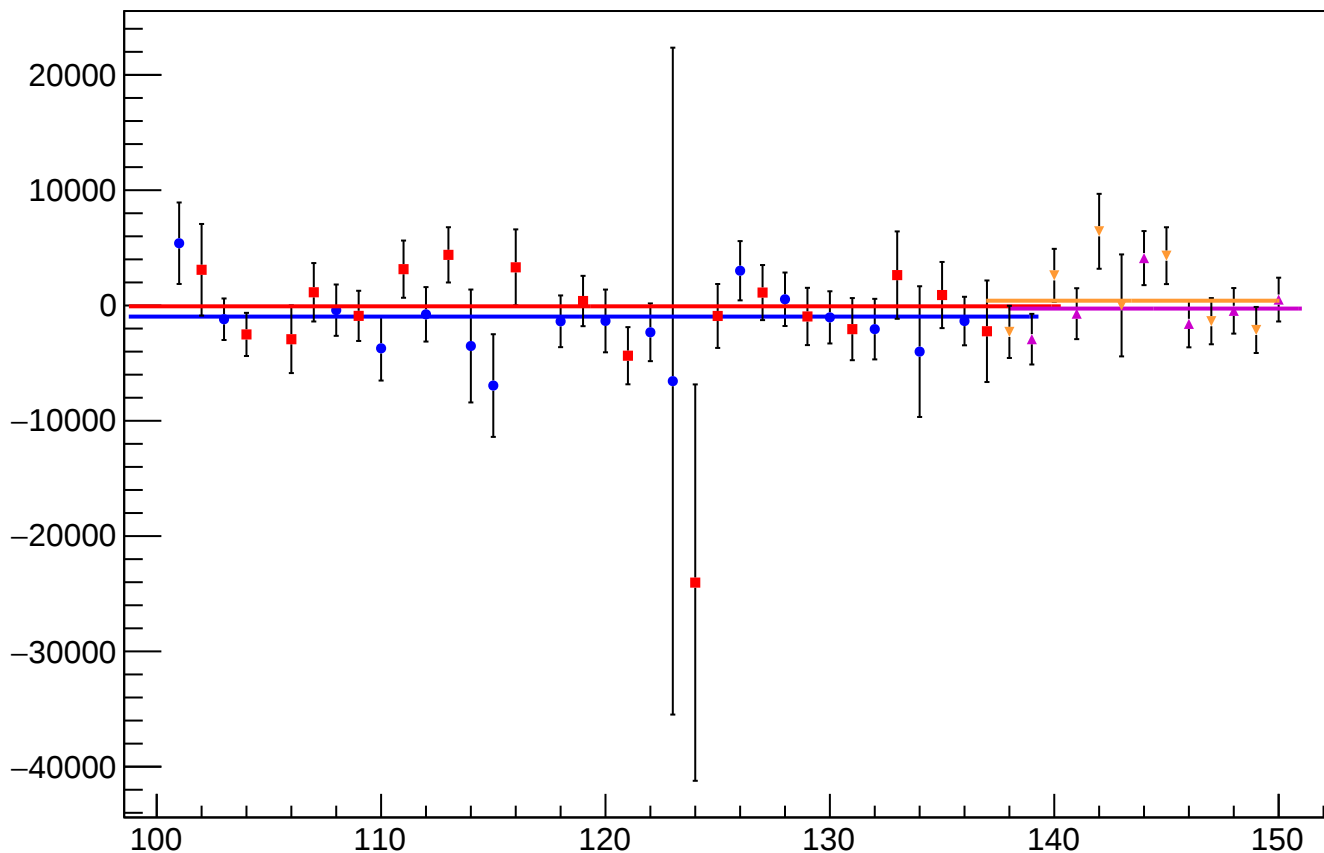
Right: 7326.859 $\pm$ 1.437  $\chi^2/\text{NDF}$ : 1004970.1/34

In: 7885.634 $\pm$ 1.660  $\chi^2/\text{NDF}$ : 662582.4/22

Out: 7383.533 $\pm$ 1.544  $\chi^2/\text{NDF}$ : 957695.5/24

All: 7616.450 $\pm$ 1.131  $\chi^2/\text{NDF}$ : 1669324.0/47

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



Right In: -962.541+/-643.025  $\chi^2/\text{NDF}$ : 10.1/16

Left Out: 415.502+/-914.873  $\chi^2/\text{NDF}$ :10.7/6

Right Out: -71.322+/-634.426  $\chi^2/\text{NDF}$ : 16.7/17

Left In: -267.421+/-854.436  $\chi^2/\text{NDF}$ :5.6/5

Left: 50.740+/-624.451  $\chi^2/\text{NDF}$ : 16.6/12

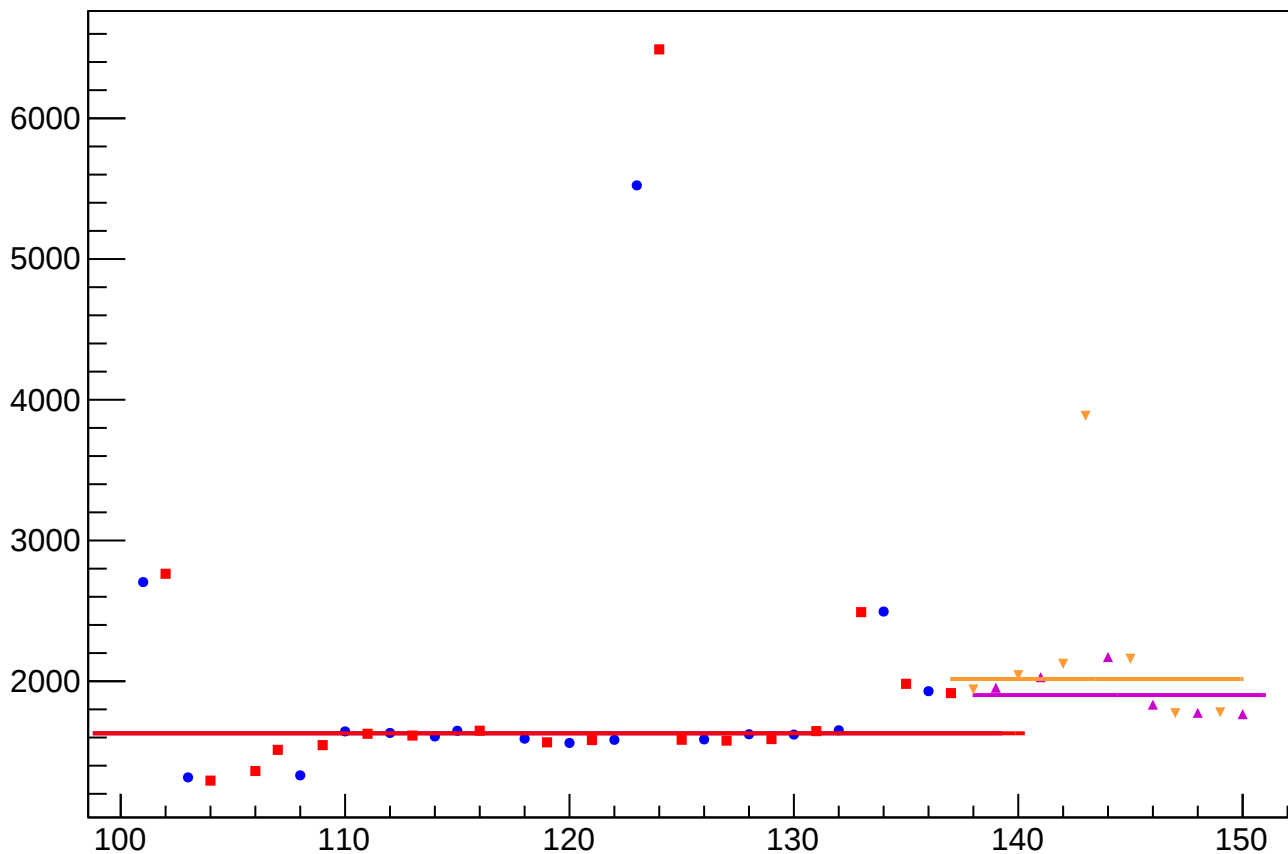
Right: -510.933+/-451.616  $\chi^2/\text{NDF}$ : 27.8/34

In: -711.200+/-513.785  $\chi^2/\text{NDF}$ :16.1/22

Out: 86.763+/-521.339  $\chi^2/\text{NDF}$ :27.6/24

All: -318.042+/-365.942  $\chi^2/\text{NDF}$ : 44.9/47

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



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

Left Out:  $2015.904 \pm 0.647$   $\chi^2/\text{NDF}: 426768.2/6$

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

Left In:  $1901.627 \pm 0.604$   $\chi^2/\text{NDF}: 54920.6/5$

Left:  $1954.867 \pm 0.442$   $\chi^2/\text{NDF}: 498355.9/12$

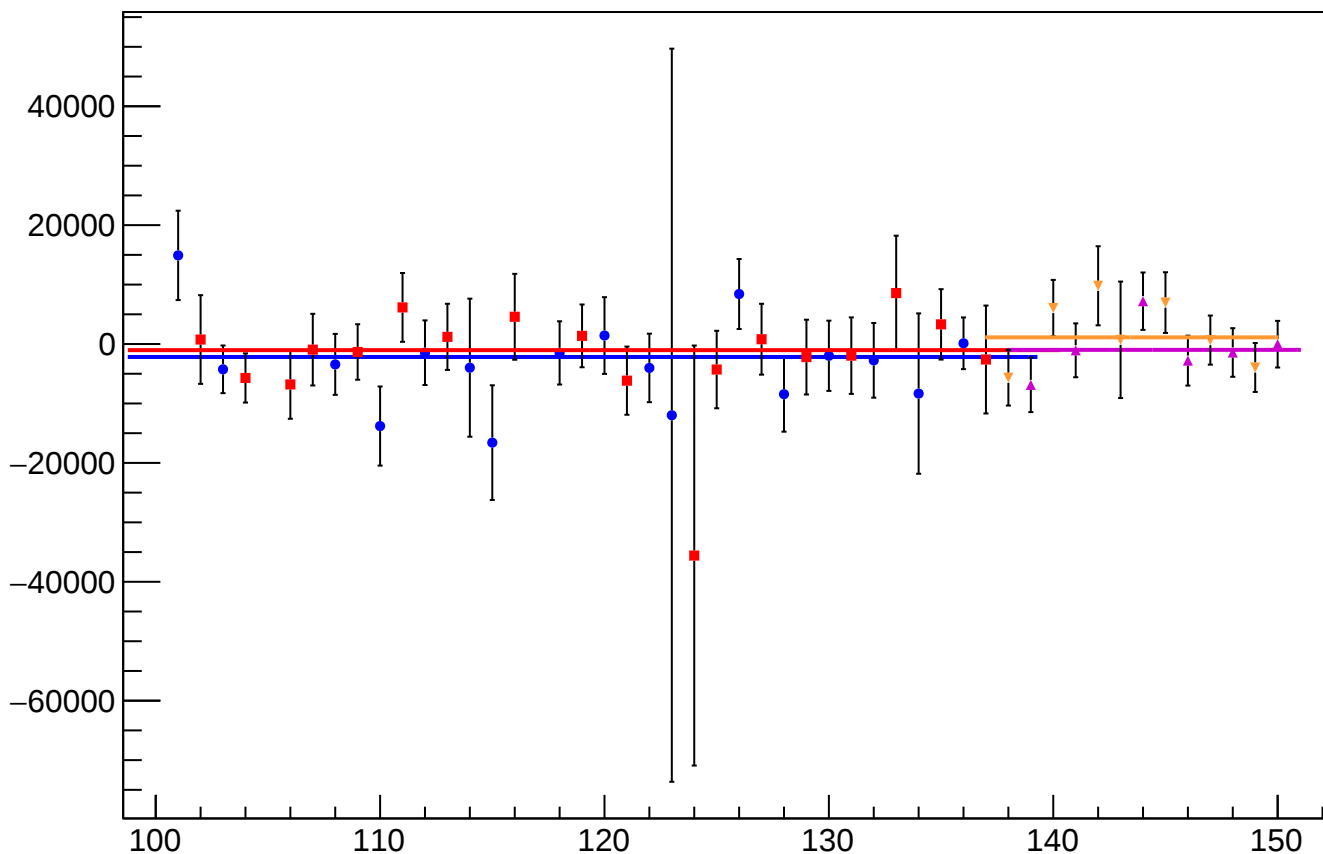
Right:  $1629.948 \pm 0.319$   $\chi^2/\text{NDF}: 965609.1/34$

In:  $1728.185 \pm 0.363$   $\chi^2/\text{NDF}: 592156.1/22$

Out:  $1755.274 \pm 0.369$   $\chi^2/\text{NDF}: 1224594.2/24$

All:  $1741.532 \pm 0.259$   $\chi^2/\text{NDF}: 1819489.5/47$

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:  $1123.848 \pm 1891.908$   $\chi^2/\text{NDF}: 7.7/6$

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

Left In:  $-982.512 \pm 1765.472$   $\chi^2/\text{NDF}: 4.8/5$

Left:  $-2.062 \pm 1290.763$   $\chi^2/\text{NDF}: 13.2/12$

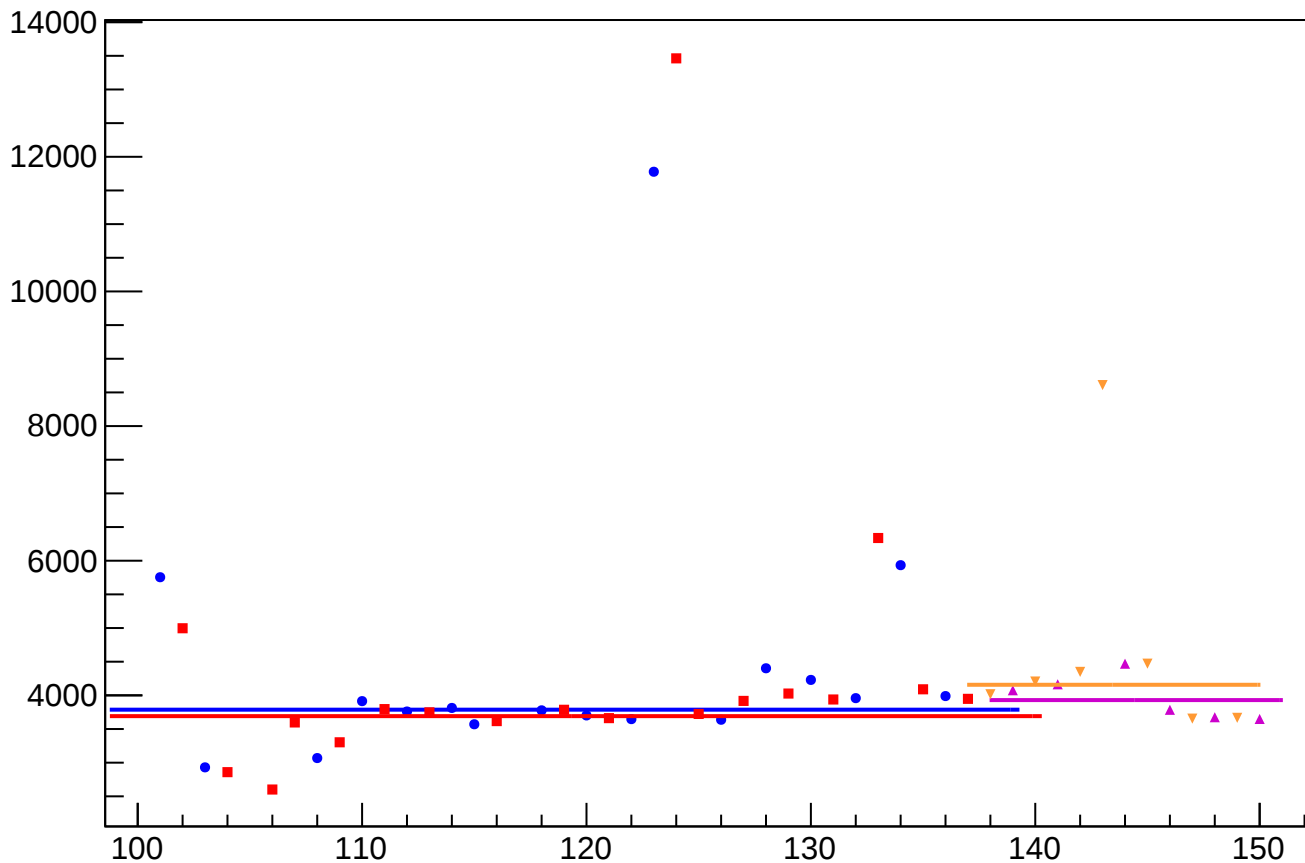
Right:  $-1583.224 \pm 1037.341$   $\chi^2/\text{NDF}: 24.9/34$

In:  $-1680.244 \pm 1140.021$   $\chi^2/\text{NDF}: 21.0/22$

Out:  $-236.405 \pm 1147.019$   $\chi^2/\text{NDF}: 17.1/24$

All:  $-962.742 \pm 808.580$   $\chi^2/\text{NDF}: 39.0/47$

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



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

Left Out: 4157.135+/-1.338  $\chi^2/\text{NDF}$ : 482317.0/6

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

Left In: 3929.694+/-1.248  $\chi^2/\text{NDF}$ : 52785.6/5

Left: 4035.561+/-0.913  $\chi^2/\text{NDF}$ : 550552.9/12

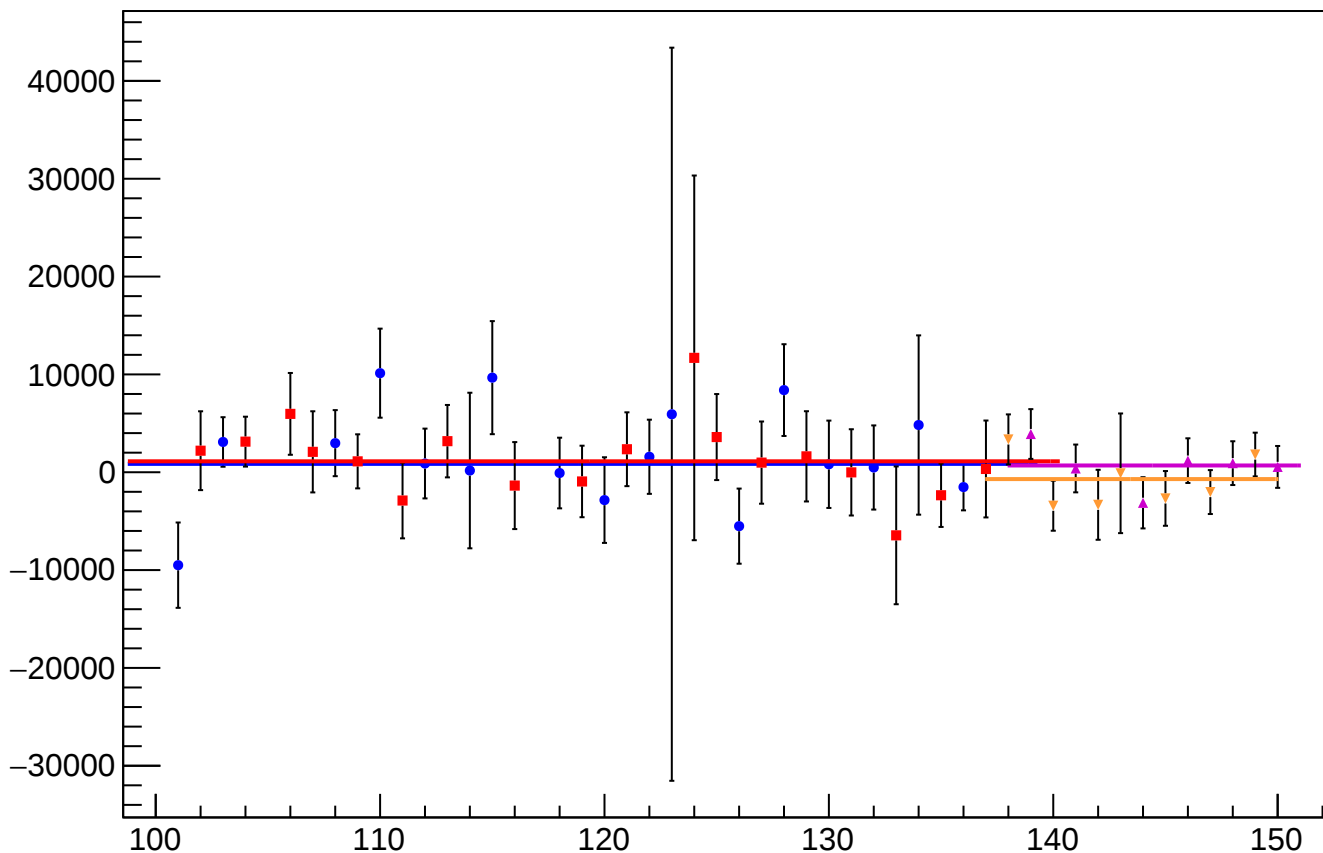
Right: 3737.614+/-0.734  $\chi^2/\text{NDF}$ : 952090.1/34

In: 3846.675+/-0.806  $\chi^2/\text{NDF}$ : 453021.8/22

Out: 3862.488+/-0.811  $\chi^2/\text{NDF}$ : 1114177.4/24

All: 3854.533+/-0.572  $\chi^2/\text{NDF}$ : 1567390.4/47

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



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

Left Out:  $-698.890 \pm 1032.959$   $\chi^2/\text{NDF}$ : 6.3/6

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

Left In:  $691.773 \pm 963.039$   $\chi^2/\text{NDF}$ : 3.8/5

Left:  $45.097 \pm 704.394$   $\chi^2/\text{NDF}$ : 11.1/12

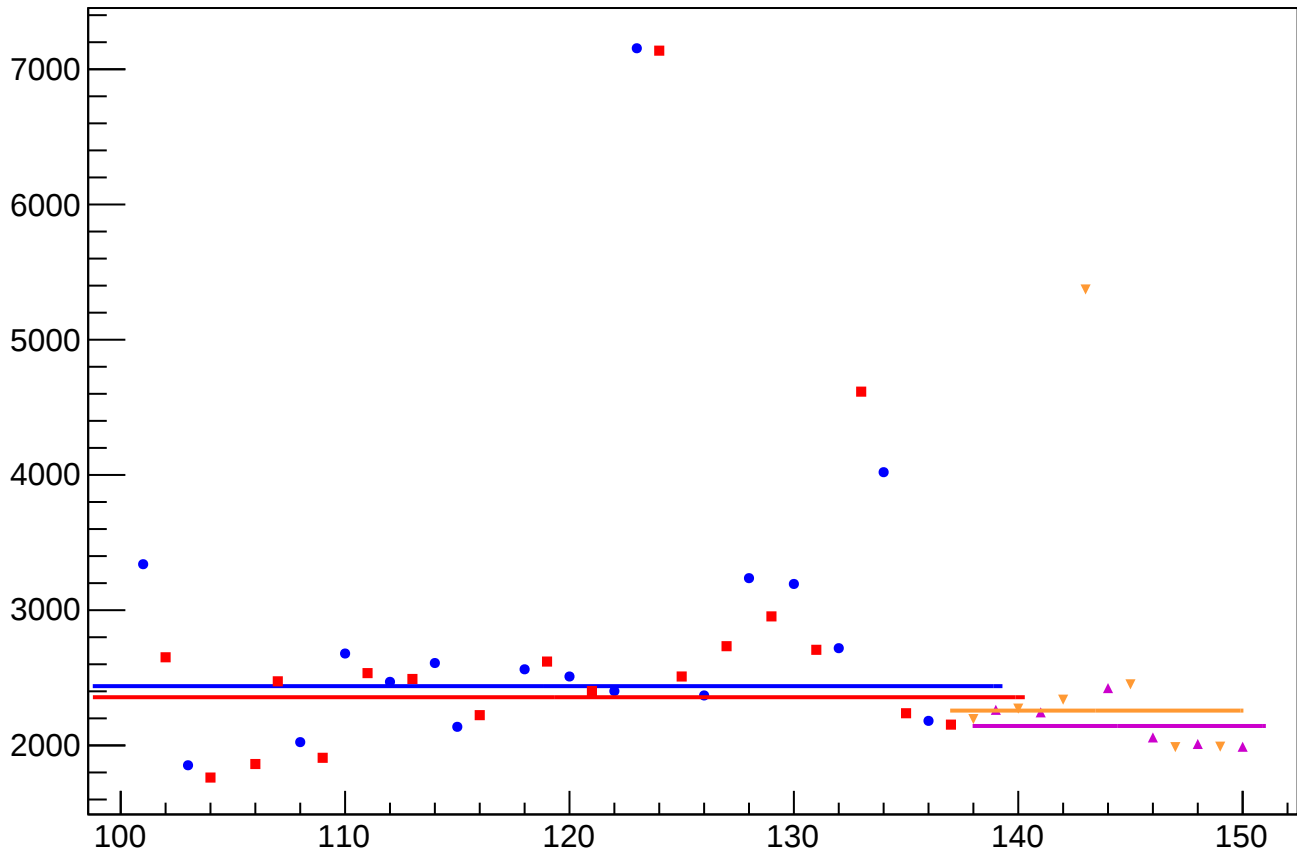
Right:  $992.055 \pm 668.506$   $\chi^2/\text{NDF}$ : 28.0/34

In:  $773.835 \pm 681.573$   $\chi^2/\text{NDF}$ : 24.5/22

Out:  $307.057 \pm 689.998$   $\chi^2/\text{NDF}$ : 15.3/24

All:  $543.313 \pm 484.896$   $\chi^2/\text{NDF}$ : 40.0/47

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



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

Left Out: 2257.484+/-0.730  $\chi^2/\text{NDF}$ : 588013.4/6

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

Left In: 2143.705+/-0.681  $\chi^2/\text{NDF}$ : 50851.3/5

Left: 2196.613+/-0.498  $\chi^2/\text{NDF}$ : 651846.3/12

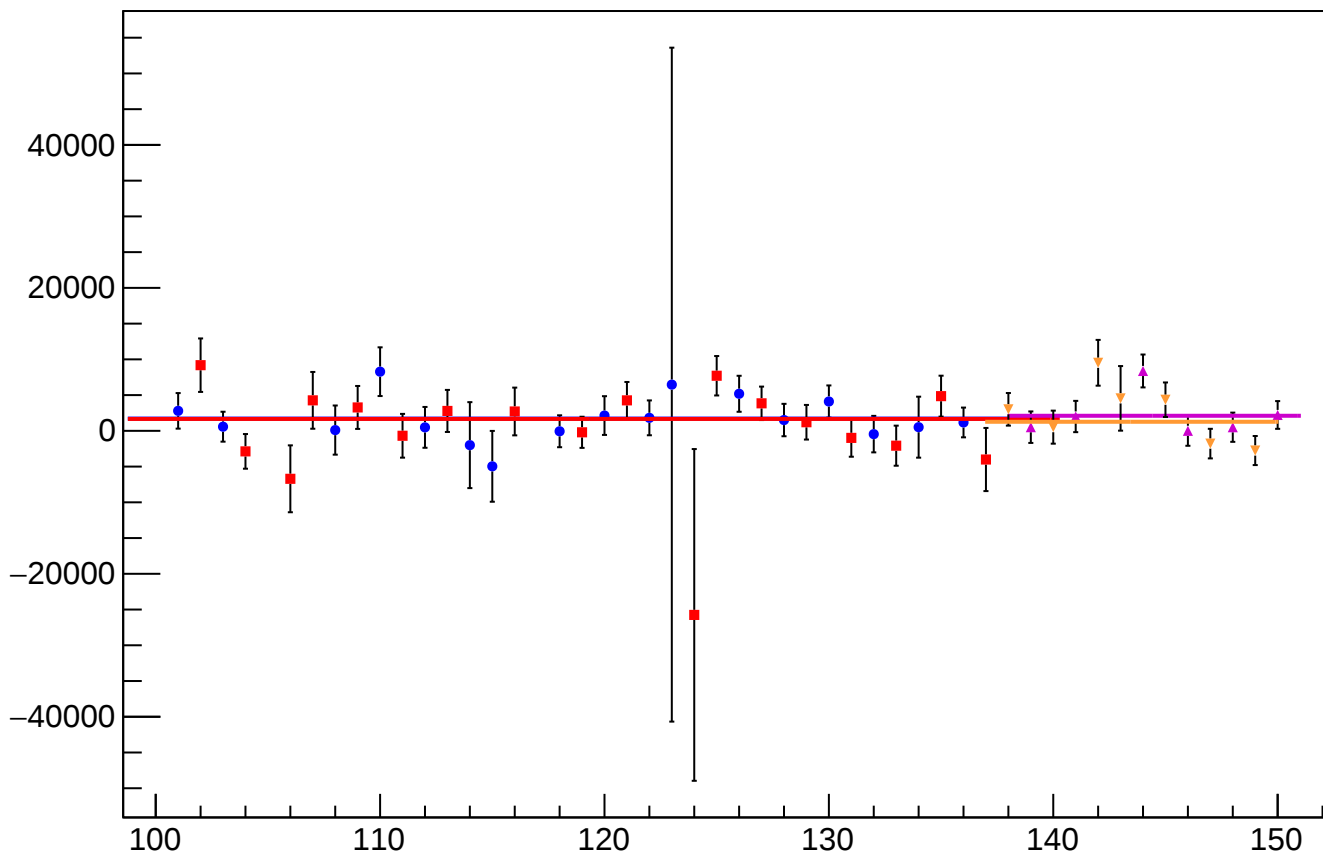
Right: 2395.716+/-0.473  $\chi^2/\text{NDF}$ : 1113343.5/34

In: 2290.730+/-0.482  $\chi^2/\text{NDF}$ : 620969.3/22

Out: 2312.266+/-0.488  $\chi^2/\text{NDF}$ : 1227303.9/24

All: 2301.366+/-0.343  $\chi^2/\text{NDF}$ : 1849259.3/47

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



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

Left Out: 1268.211+/-923.458  $\chi^2/\text{NDF}$ :15.6/6

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

Left In: 2108.676+/-864.846  $\chi^2/\text{NDF}$ :9.6/5

Left: 1715.960+/-631.243  $\chi^2/\text{NDF}$ : 25.6/12

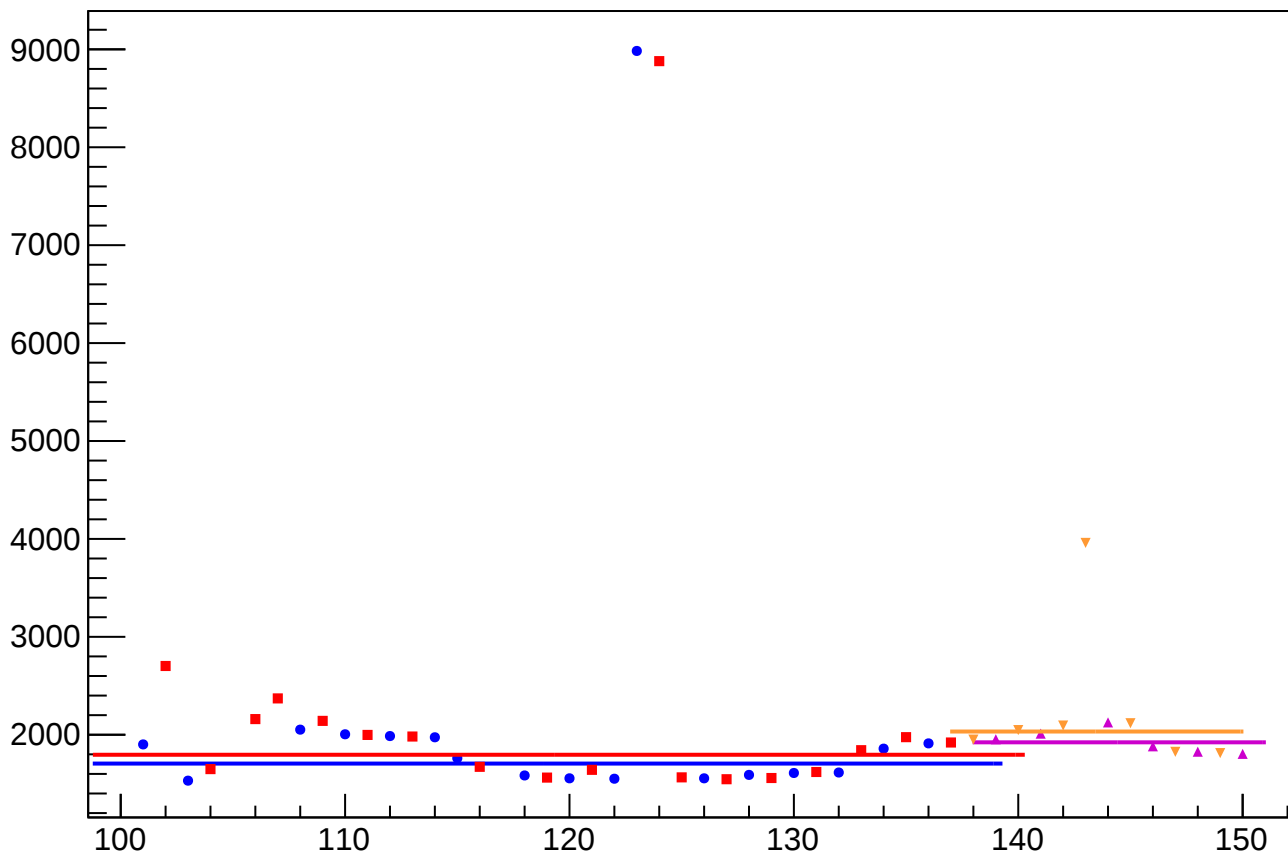
Right: 1689.956+/-481.523  $\chi^2/\text{NDF}$ : 38.2/34

In: 1860.342+/-528.242  $\chi^2/\text{NDF}$ :21.1/22

Out: 1521.572+/-555.662  $\chi^2/\text{NDF}$ :42.5/24

All: 1699.521+/-382.850  $\chi^2/\text{NDF}$ : 63.8/47

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



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

Left Out: 2032.906+/-0.653  $\chi^2/\text{NDF}$ : 413053.3/6

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

Left In: 1922.597+/-0.612  $\chi^2/\text{NDF}$ : 31860.4/5

Left: 1974.140+/-0.446  $\chi^2/\text{NDF}$ : 460116.9/12

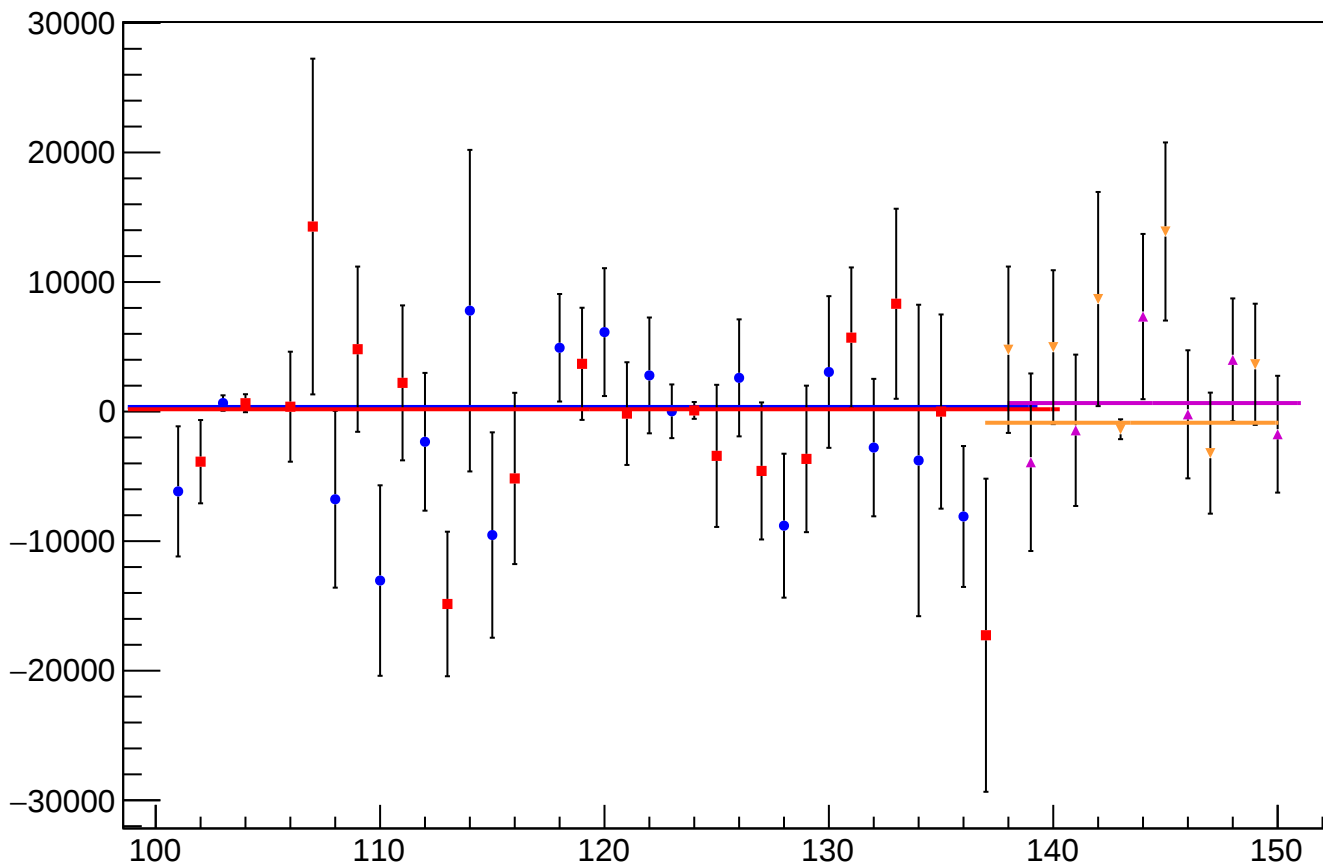
Right: 1748.814+/-0.340  $\chi^2/\text{NDF}$ : 730436.4/34

In: 1786.570+/-0.374  $\chi^2/\text{NDF}$ : 304954.1/22

Out: 1881.263+/-0.392  $\chi^2/\text{NDF}$ : 1016264.5/24

All: 1831.589+/-0.271  $\chi^2/\text{NDF}$ : 1351773.6/47

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



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

Left Out: -861.760+/-728.599  $\chi^2/\text{NDF}$ : 9.3/6

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

Left In: 658.162+/-2183.132  $\chi^2/\text{NDF}$ : 2.5/5

Left: -709.434+/-691.125  $\chi^2/\text{NDF}$ : 12.2/12

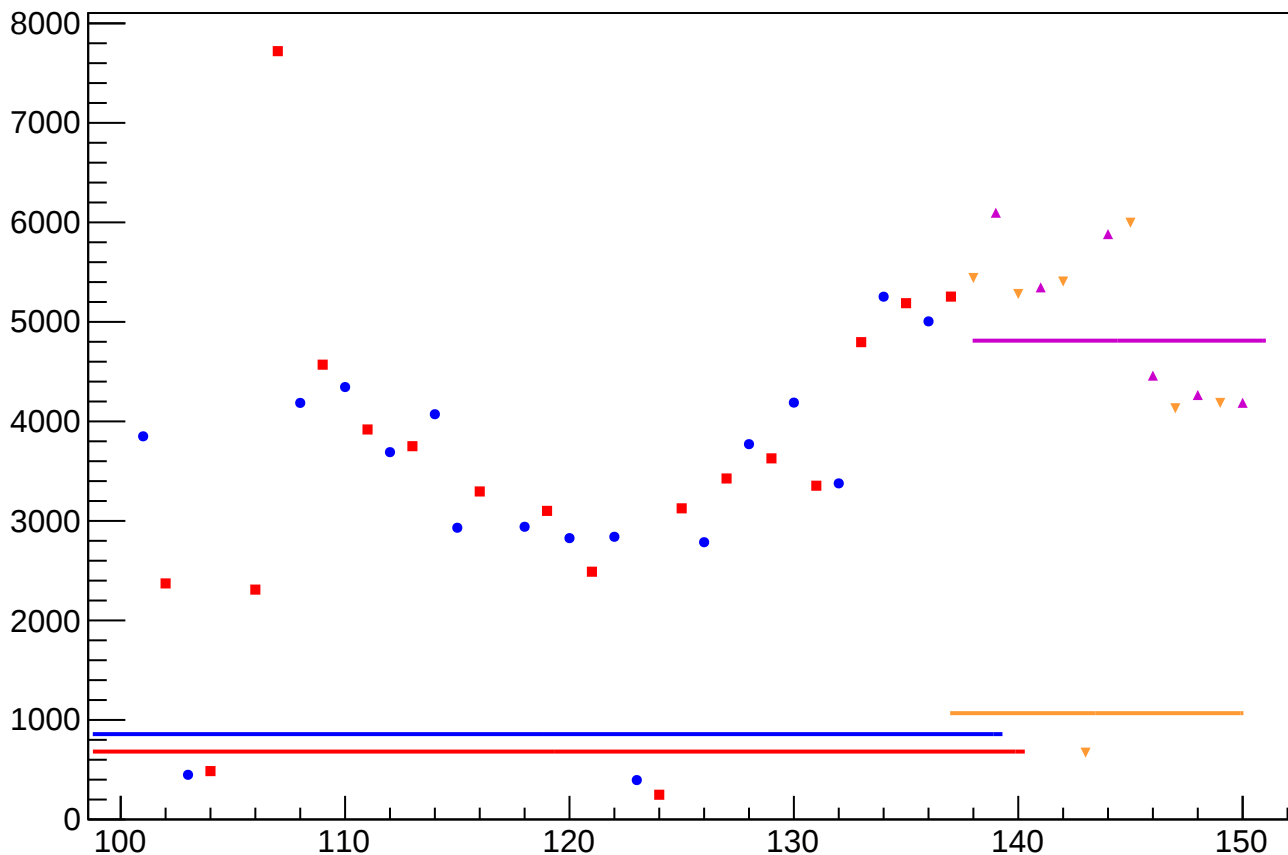
Right: 252.583+/-342.551  $\chi^2/\text{NDF}$ : 36.1/34

In: 373.977+/-517.983  $\chi^2/\text{NDF}$ : 20.0/22

Out: -105.470+/-381.007  $\chi^2/\text{NDF}$ : 29.3/24

All: 62.860+/-306.920  $\chi^2/\text{NDF}$ : 49.8/47

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



Right In: 857.472+/-0.377  $\chi^2/\text{NDF}$ : 8175260.6/16

Left Out: 1068.086+/-0.515  $\chi^2/\text{NDF}$ : 5799491.2/6

Right Out: 682.114+/-0.316  $\chi^2/\text{NDF}$ : 9378570.8/17

Left In: 4811.519+/-1.544  $\chi^2/\text{NDF}$ : 218658.5/5

Left: 1443.252+/-0.489  $\chi^2/\text{NDF}$ : 11309261.5/12

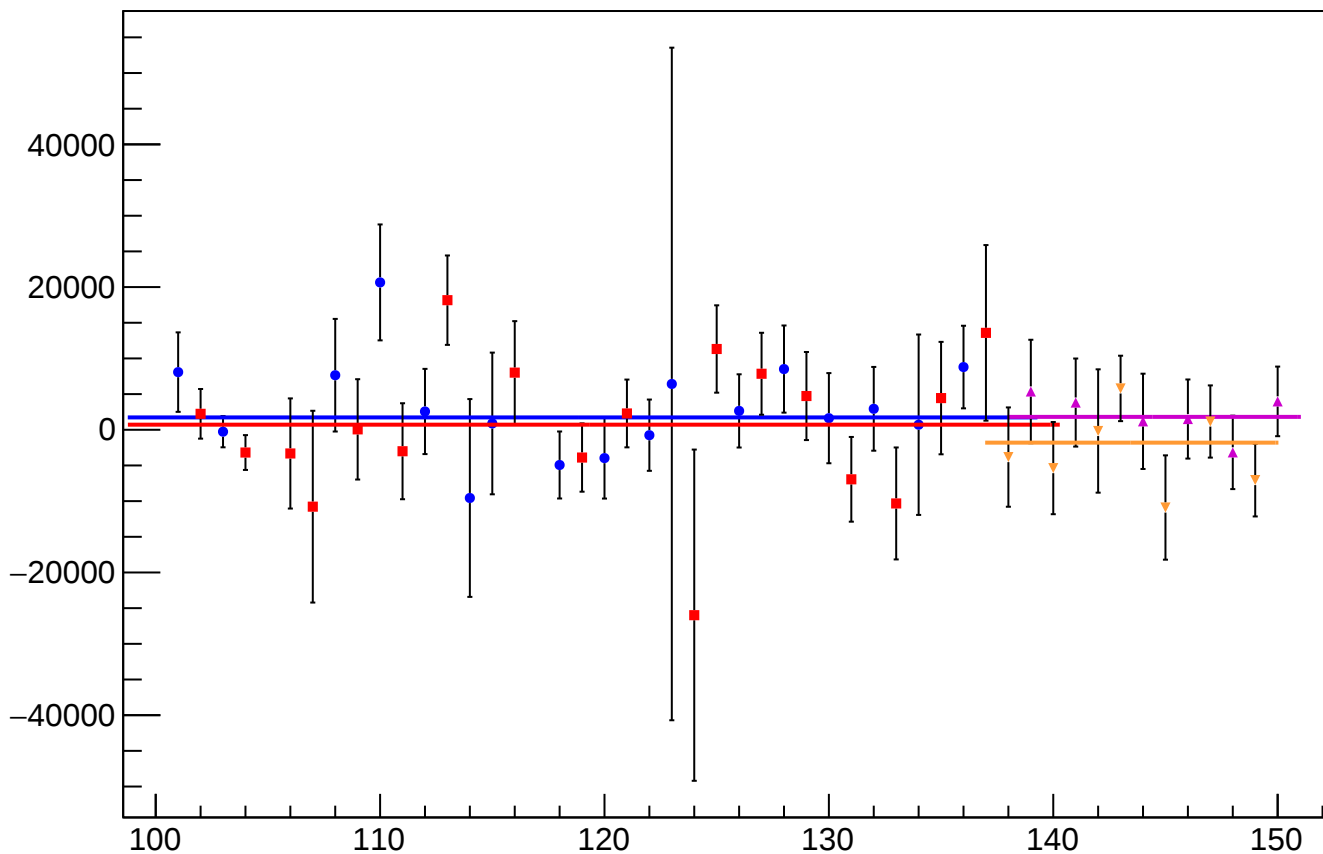
Right: 754.488+/-0.242  $\chi^2/\text{NDF}$ : 17680867.8/34

In: 1080.066+/-0.366  $\chi^2/\text{NDF}$ : 14585337.9/22

Out: 787.661+/-0.269  $\chi^2/\text{NDF}$ : 15585840.7/24

All: 890.322+/-0.217  $\chi^2/\text{NDF}$ : 30584750.6/47

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



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

Left Out: -1803.205+/-2226.076  $\chi^2/\text{NDF}$ : 6.1/6

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

Left In: 1807.887+/-2356.725  $\chi^2/\text{NDF}$ : 1.5/5

Left: -100.522+/-1618.291  $\chi^2/\text{NDF}$ : 8.9/12

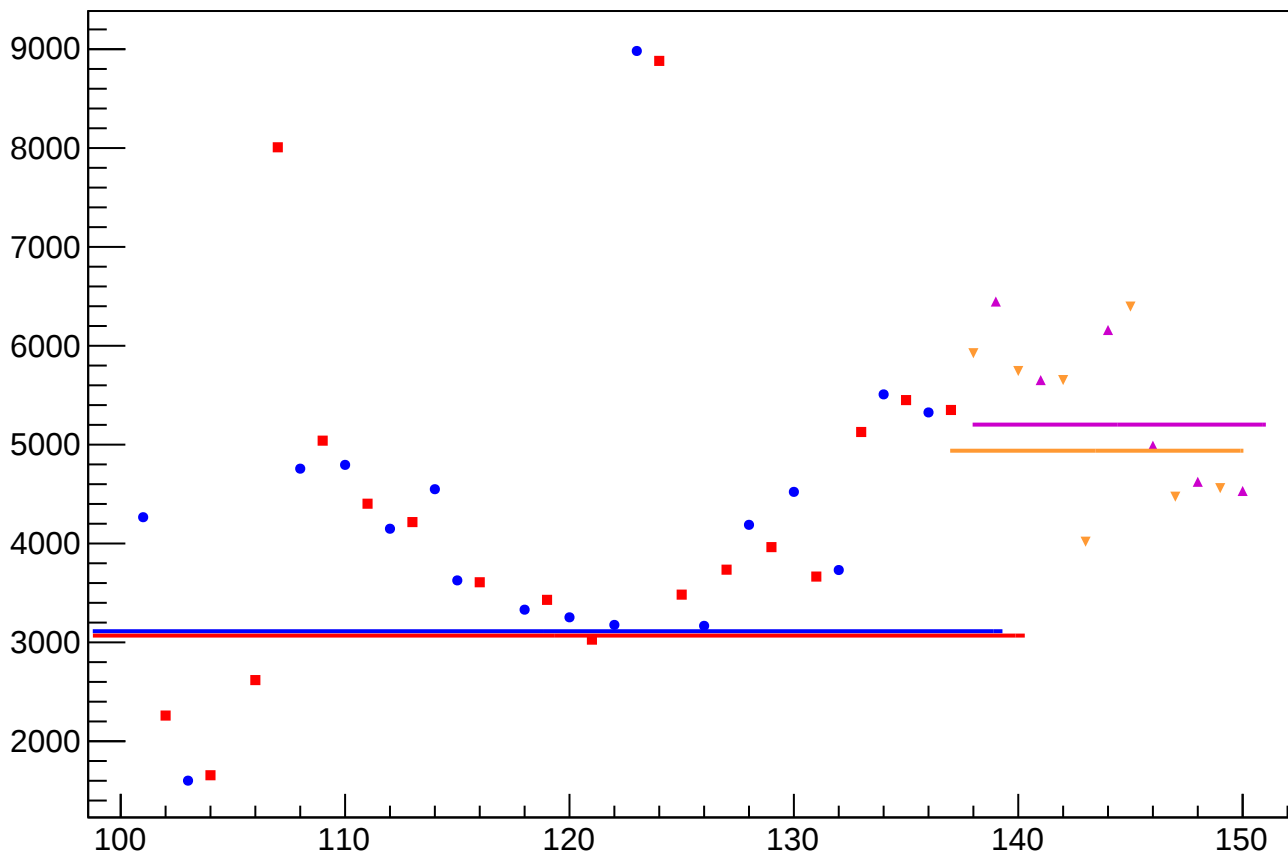
Right: 1218.933+/-917.539  $\chi^2/\text{NDF}$ : 40.3/34

In: 1750.774+/-1141.393  $\chi^2/\text{NDF}$ : 16.4/22

Out: 81.804+/-1116.587  $\chi^2/\text{NDF}$ : 32.2/24

All: 897.956+/-798.172  $\chi^2/\text{NDF}$ : 49.7/47

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



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

Left Out: 4938.619+/-1.574  $\chi^2/\text{NDF}$ : 273008.2/6

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

Left In: 5202.638+/-1.666  $\chi^2/\text{NDF}$ : 176794.6/5

Left: 5063.108+/-1.144  $\chi^2/\text{NDF}$ : 463068.1/12

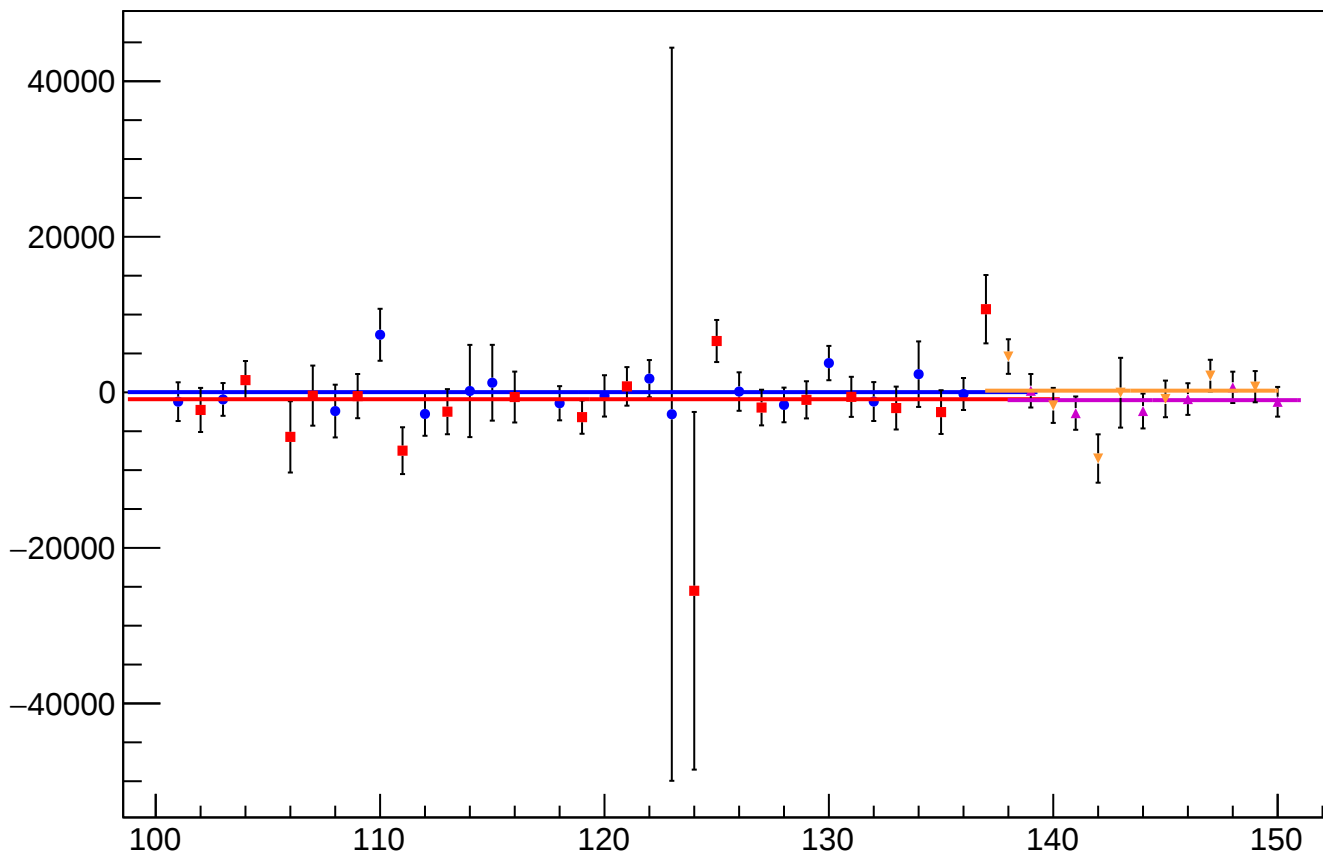
Right: 3090.101+/-0.644  $\chi^2/\text{NDF}$ : 3887313.2/34

In: 3602.900+/-0.807  $\chi^2/\text{NDF}$ : 3265225.8/22

Out: 3528.851+/-0.781  $\chi^2/\text{NDF}$ : 3338625.2/24

All: 3564.654+/-0.561  $\chi^2/\text{NDF}$ : 6608198.8/47

# 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:  $216.419 \pm 904.484$   $\chi^2/\text{NDF}: 13.6/6$

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

Left In:  $-1002.010 \pm 846.988$   $\chi^2/\text{NDF}: 2.0/5$

Left:  $-432.750 \pm 618.239$   $\chi^2/\text{NDF}: 16.6/12$

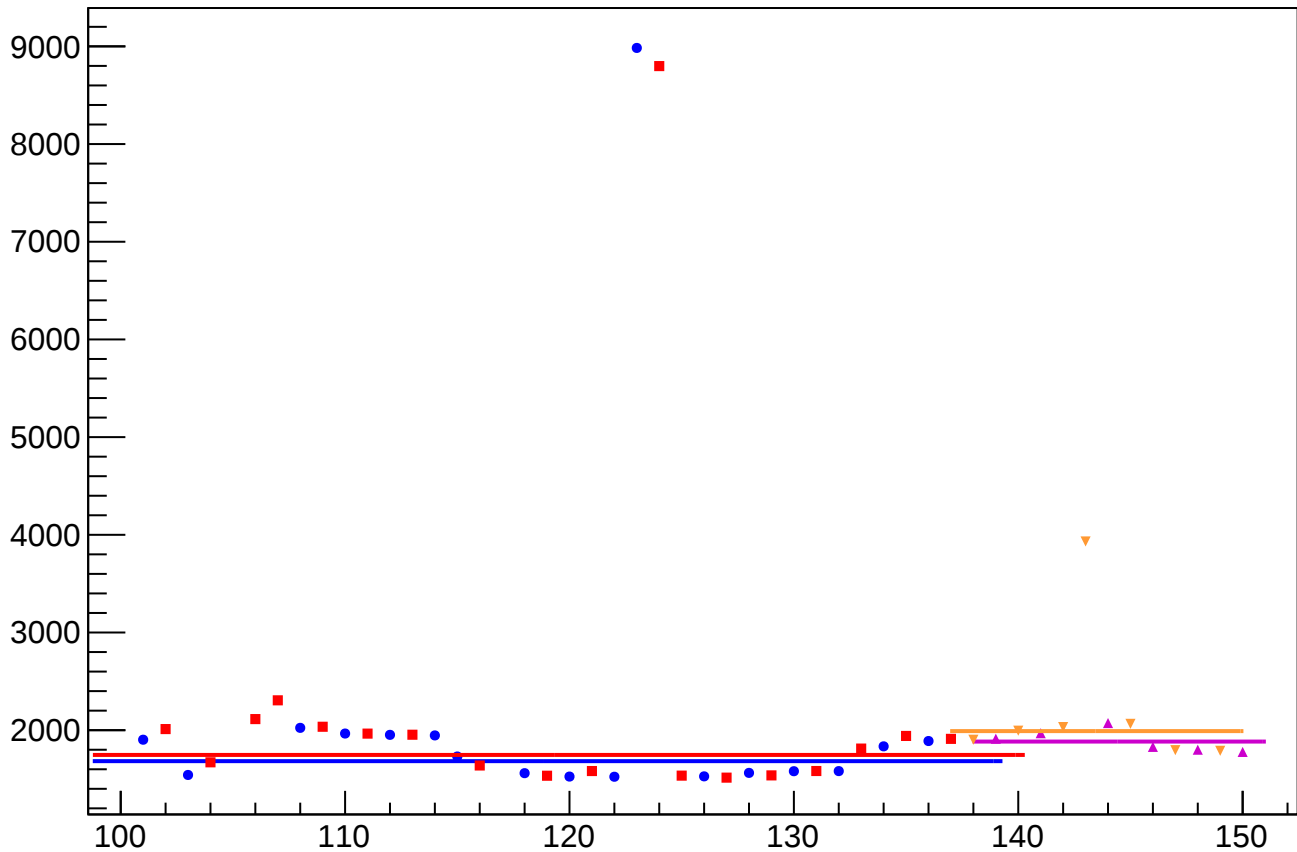
Right:  $-415.699 \pm 471.191$   $\chi^2/\text{NDF}: 38.4/34$

In:  $-359.279 \pm 519.821$   $\chi^2/\text{NDF}: 14.7/22$

Out:  $-489.803 \pm 540.770$   $\chi^2/\text{NDF}: 40.2/24$

All:  $-421.964 \pm 374.756$   $\chi^2/\text{NDF}: 55.0/47$

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



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

Left Out: 1990.654+/-0.640  $\chi^2/\text{NDF}$ : 418391.2/6

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

Left In: 1883.588+/-0.599  $\chi^2/\text{NDF}$ : 28815.0/5

Left: 1933.610+/-0.437  $\chi^2/\text{NDF}$ : 462137.2/12

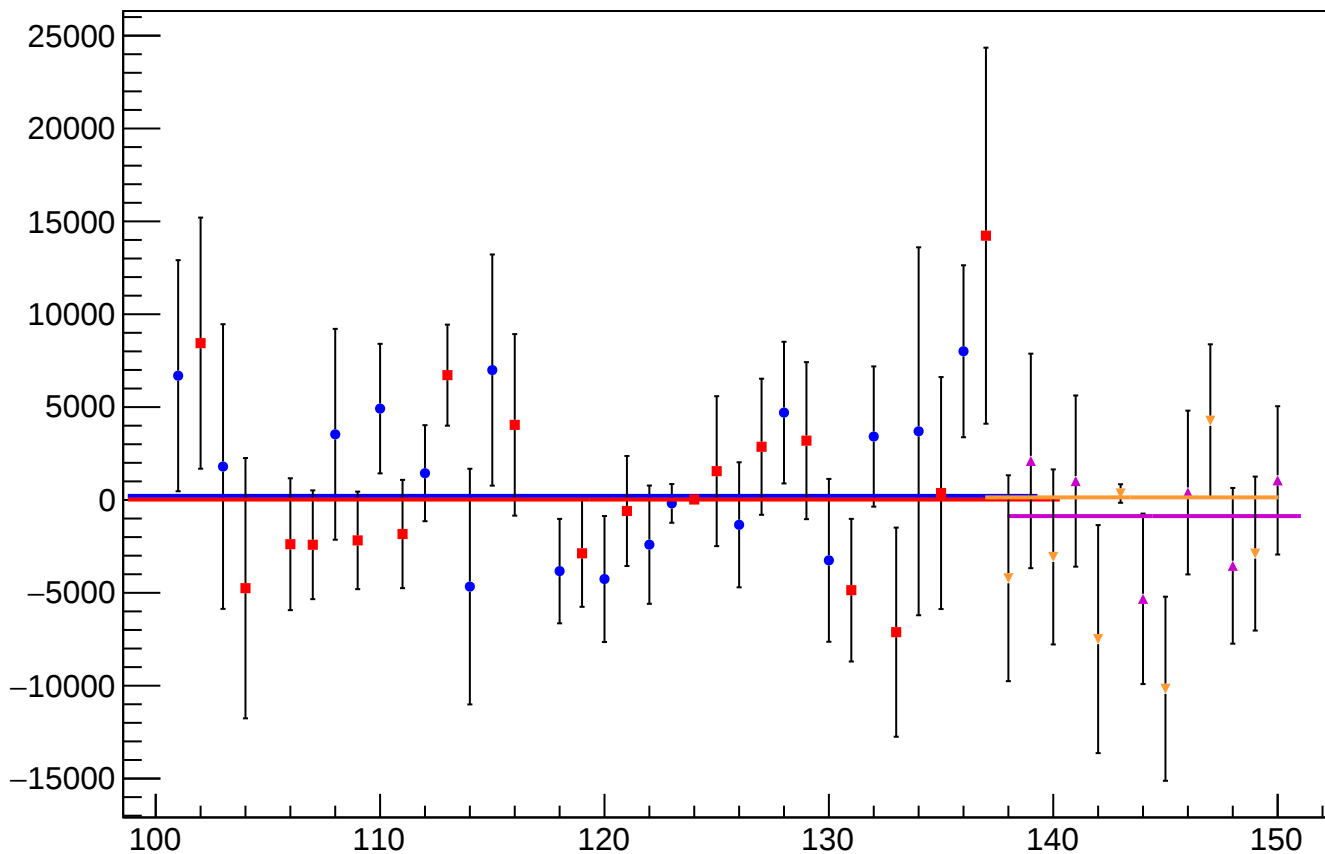
Right: 1714.259+/-0.333  $\chi^2/\text{NDF}$ : 611728.2/34

In: 1758.631+/-0.368  $\chi^2/\text{NDF}$ : 294506.9/22

Out: 1833.721+/-0.382  $\chi^2/\text{NDF}$ : 918670.7/24

All: 1794.747+/-0.265  $\chi^2/\text{NDF}$ : 1233250.0/47

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



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

Left Out: 138.099 $\pm$ 483.737  $\chi^2$ /NDF: 8.7/6

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

Left In: -868.757 $\pm$ 1839.266  $\chi^2$ /NDF: 2.1/5

Left: 72.959 $\pm$ 467.827  $\chi^2$ /NDF: 11.0/12

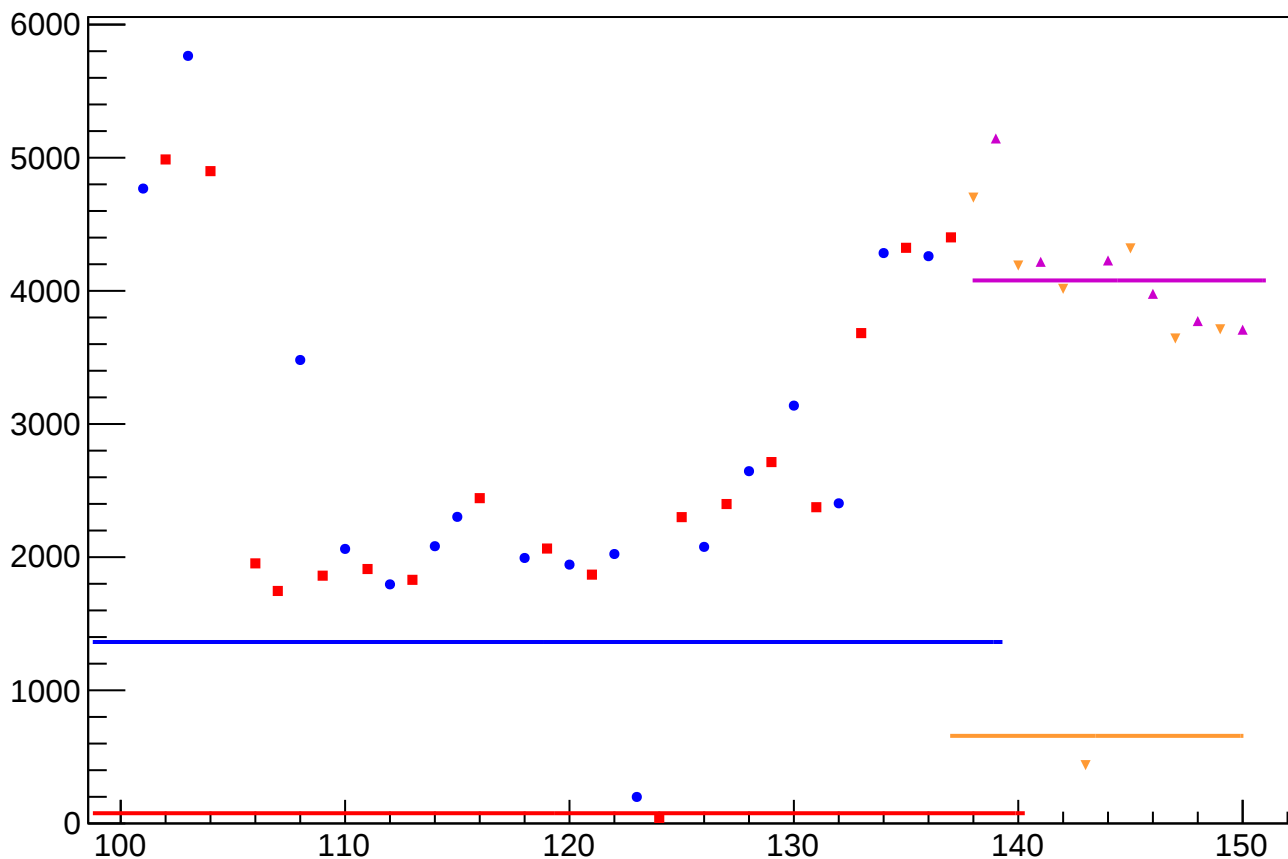
Right: 26.783 $\pm$ 112.731  $\chi^2$ /NDF: 34.5/34

In: 74.842 $\pm$ 671.198  $\chi^2$ /NDF: 18.2/22

Out: 28.070 $\pm$ 111.085  $\chi^2$ /NDF: 27.3/24

All: 29.317 $\pm$ 109.594  $\chi^2$ /NDF: 45.5/47

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



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

Left Out: 657.913 $\pm$ 0.342  $\chi^2$ /NDF: 6401344.6/6

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

Left In: 4078.332 $\pm$ 1.301  $\chi^2$ /NDF: 100955.6/5

Left: 879.203 $\pm$ 0.331  $\chi^2$ /NDF: 12971521.6/12

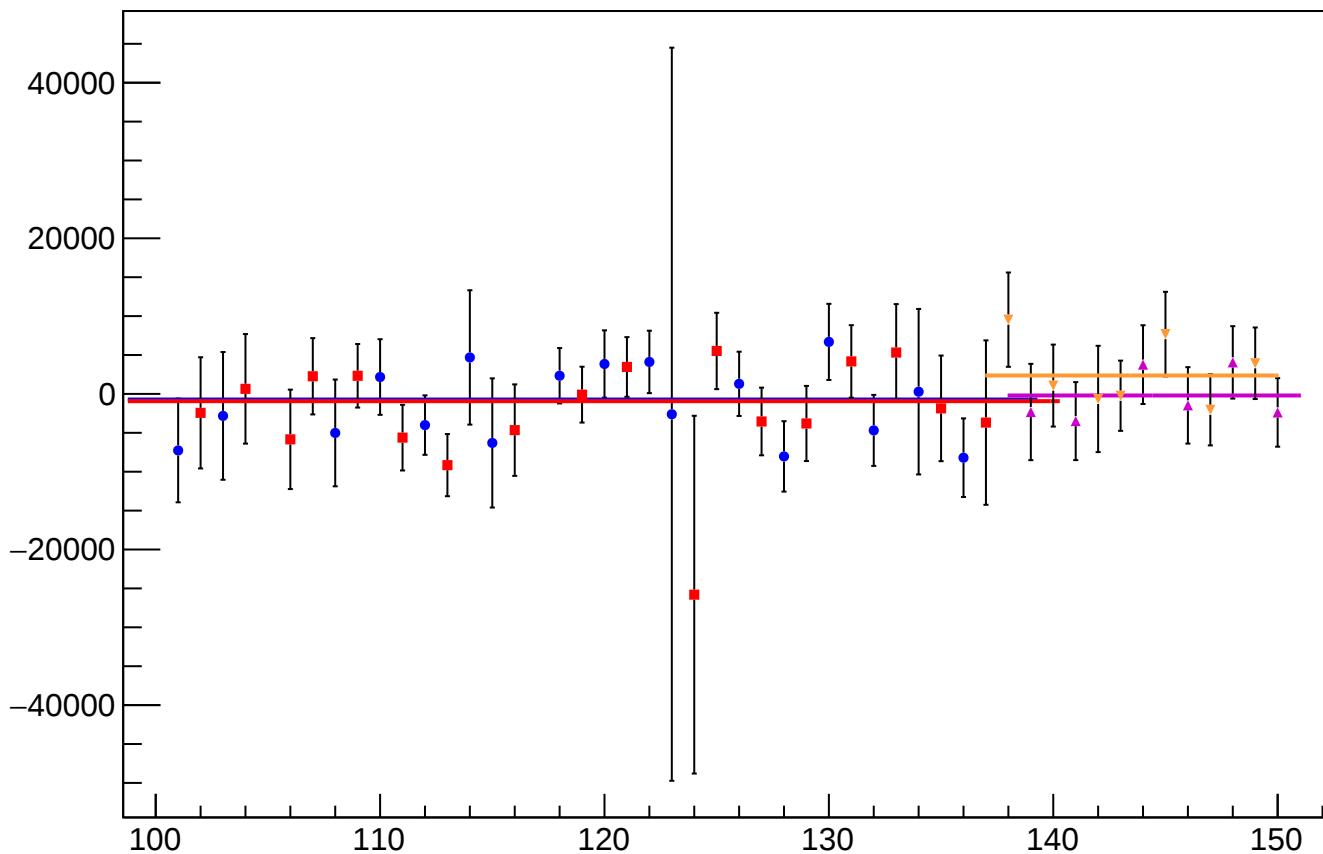
Right: 108.278 $\pm$ 0.080  $\chi^2$ /NDF: 25558892.3/34

In: 1724.469 $\pm$ 0.475  $\chi^2$ /NDF: 10115745.3/22

Out: 107.475 $\pm$ 0.079  $\chi^2$ /NDF: 22249460.5/24

All: 150.585 $\pm$ 0.077  $\chi^2$ /NDF: 43663411.1/47

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



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

Left Out: 2367.778+/-1951.200  $\chi^2/\text{NDF}$ : 4.0/6

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

Left In: -201.434+/-2024.246  $\chi^2/\text{NDF}$ : 2.3/5

Left: 1130.363+/-1404.821  $\chi^2/\text{NDF}$ : 7.1/12

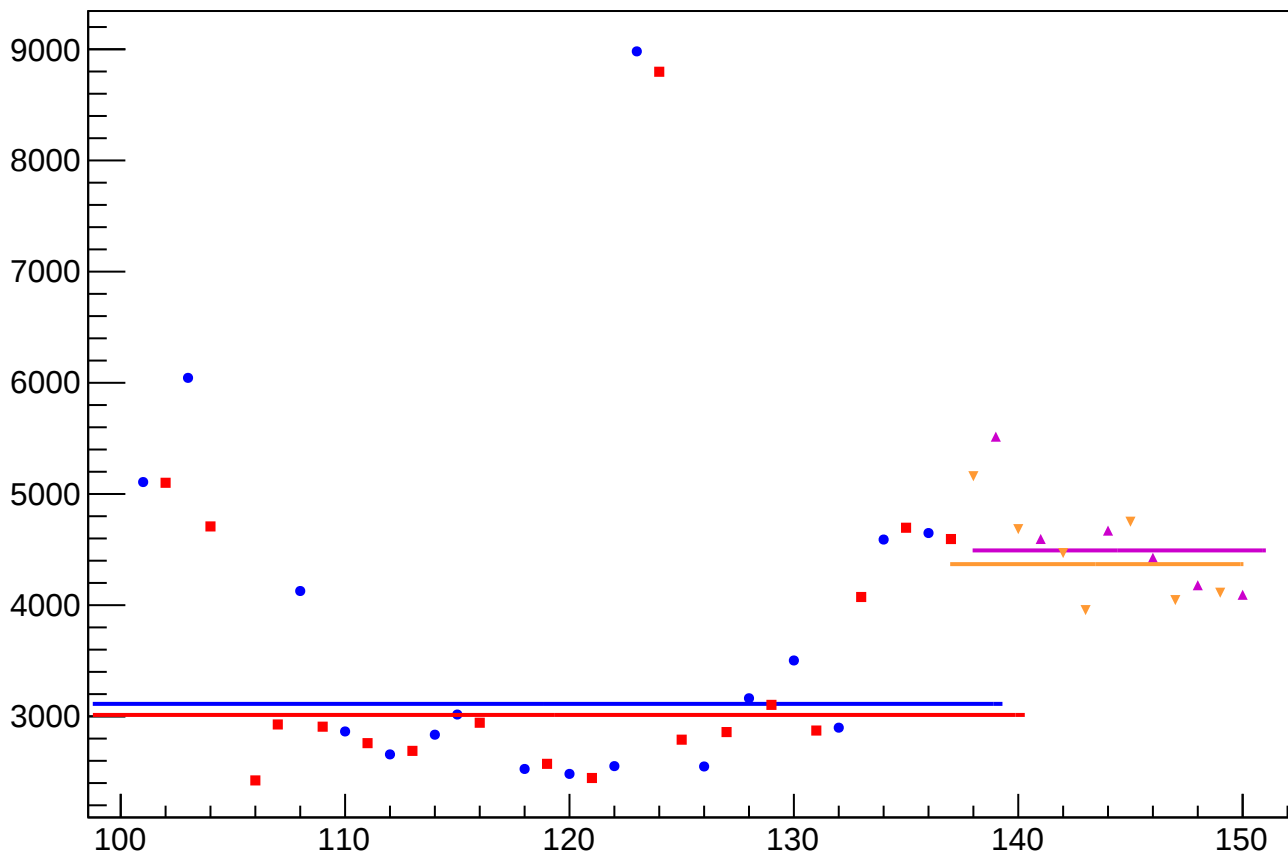
Right: -831.583+/-864.407  $\chi^2/\text{NDF}$ : 29.7/34

In: -577.501+/-1065.111  $\chi^2/\text{NDF}$ : 17.1/22

Out: -32.293+/-1018.731  $\chi^2/\text{NDF}$ : 21.0/24

All: -292.768+/-736.202  $\chi^2/\text{NDF}$ : 38.2/47

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



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

Left Out: 4369.123 $\pm$ 1.380  $\chi^2/\text{NDF}$ : 84522.5/6

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

Left In: 4492.437 $\pm$ 1.431  $\chi^2/\text{NDF}$ : 83752.0/5

Left: 4428.515 $\pm$ 0.993  $\chi^2/\text{NDF}$ : 172121.9/12

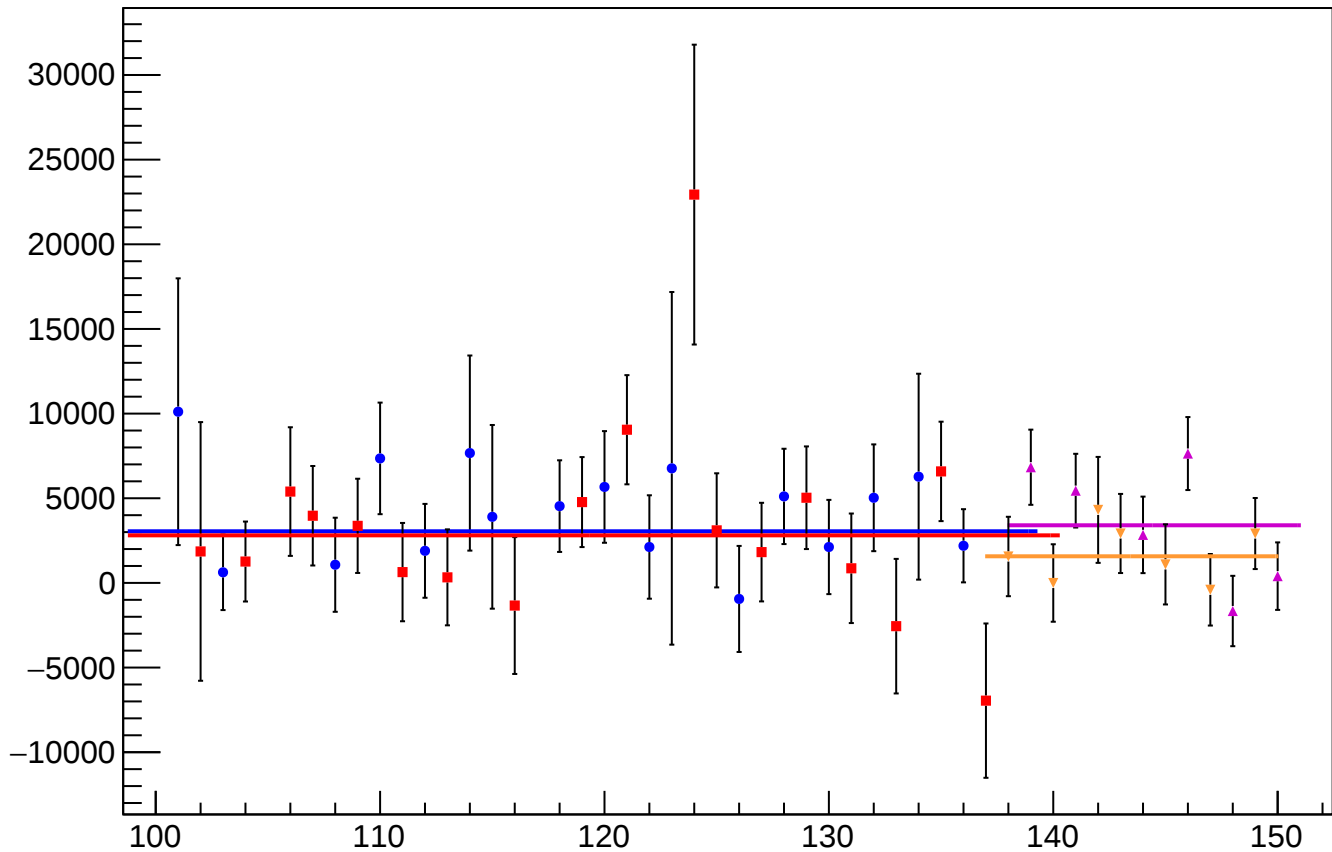
Right: 3059.514 $\pm$ 0.607  $\chi^2/\text{NDF}$ : 1739444.6/34

In: 3494.355 $\pm$ 0.753  $\chi^2/\text{NDF}$ : 1714627.3/22

Out: 3375.758 $\pm$ 0.714  $\chi^2/\text{NDF}$ : 1566583.3/24

All: 3431.874 $\pm$ 0.518  $\chi^2/\text{NDF}$ : 3294274.3/47

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



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

Left Out: 1571.959 $\pm$ 881.271  $\chi^2$ /NDF:2.9/6

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

Left In: 3403.340 $\pm$ 874.362  $\chi^2$ /NDF:15.4/5

Left: 2494.857 $\pm$ 620.696  $\chi^2$ /NDF: 20.5/12

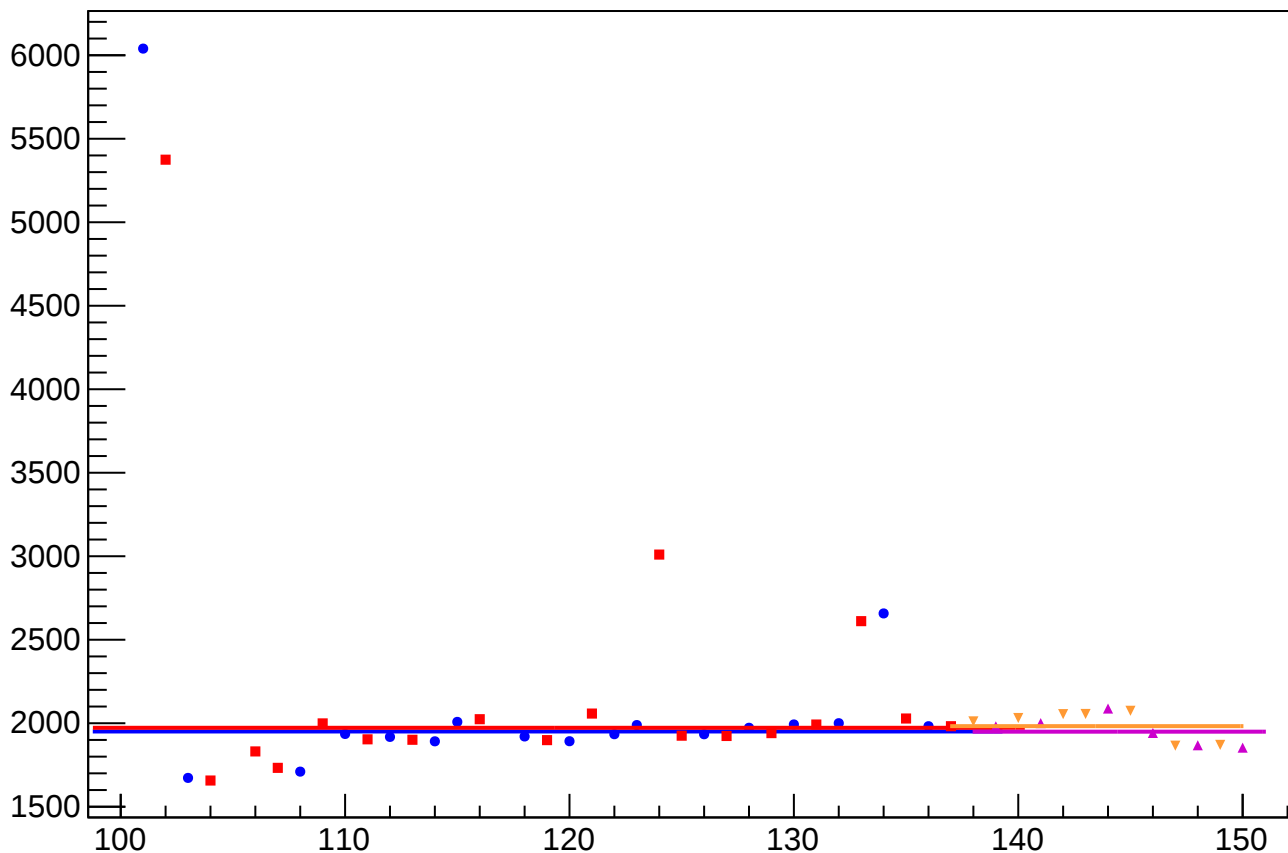
Right: 2928.147 $\pm$ 543.941  $\chi^2$ /NDF: 31.4/34

In: 3204.343 $\pm$ 578.844  $\chi^2$ /NDF:24.8/22

Out: 2276.520 $\pm$ 578.224  $\chi^2$ /NDF:26.0/24

All: 2739.934 $\pm$ 409.085  $\chi^2$ /NDF: 52.1/47

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



Right In: 1950.692 $\pm$ 0.546  $\chi^2$ /NDF: 615165.3/16

Left Out: 1982.577 $\pm$ 0.623  $\chi^2$ /NDF:19064.0/6

Right Out: 1972.726 $\pm$ 0.541  $\chi^2$ /NDF: 535670.1/17

Left In: 1949.475 $\pm$ 0.618  $\chi^2$ /NDF:16740.2/5

Left: 1965.896 $\pm$ 0.439  $\chi^2$ /NDF: 37226.1/12

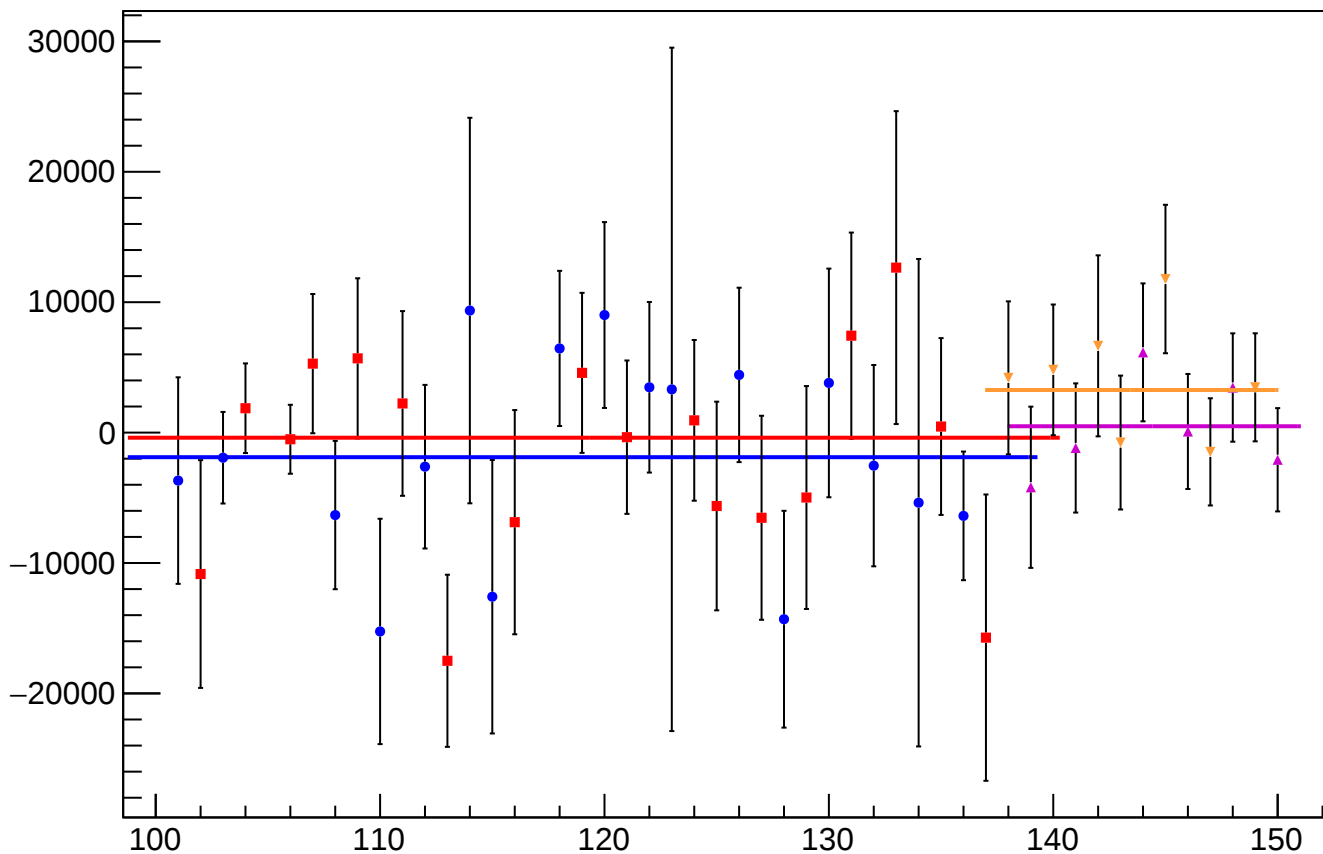
Right: 1961.803 $\pm$ 0.385  $\chi^2$ /NDF: 1151656.3/34

In: 1950.159 $\pm$ 0.409  $\chi^2$ /NDF:631907.6/22

Out: 1976.964 $\pm$ 0.409  $\chi^2$ /NDF:554876.4/24

All: 1963.580 $\pm$ 0.289  $\chi^2$ /NDF: 1188931.6/47

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



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

Left Out: 3265.790+/-1903.781  $\chi^2/\text{NDF}$ : 4.5/6

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

Left In: 486.495+/-1904.394  $\chi^2/\text{NDF}$ : 2.8/5

Left: 1876.590+/-1346.393  $\chi^2/\text{NDF}$ : 8.4/12

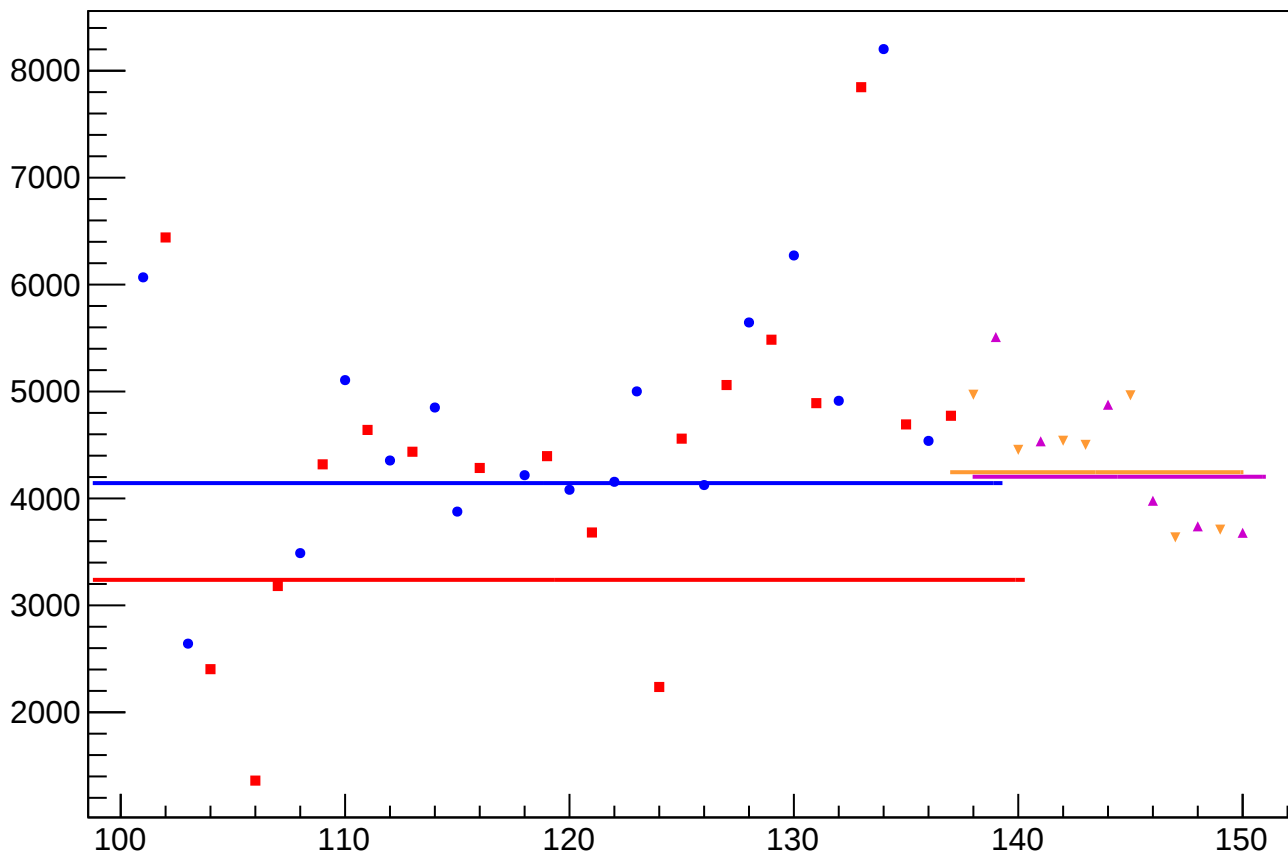
Right: -993.190+/-1052.280  $\chi^2/\text{NDF}$ : 32.2/34

In: -862.673+/-1250.475  $\chi^2/\text{NDF}$ : 17.8/22

Out: 846.318+/-1107.542  $\chi^2/\text{NDF}$ : 24.6/24

All: 95.035+/-829.100  $\chi^2/\text{NDF}$ : 43.4/47

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



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

Left Out: 4245.363 $\pm$ 1.346  $\chi^2/\text{NDF}$ : 152083.2/6

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

Left In: 4202.947 $\pm$ 1.347  $\chi^2/\text{NDF}$ : 195888.5/5

Left: 4224.162 $\pm$ 0.952  $\chi^2/\text{NDF}$ : 348467.9/12

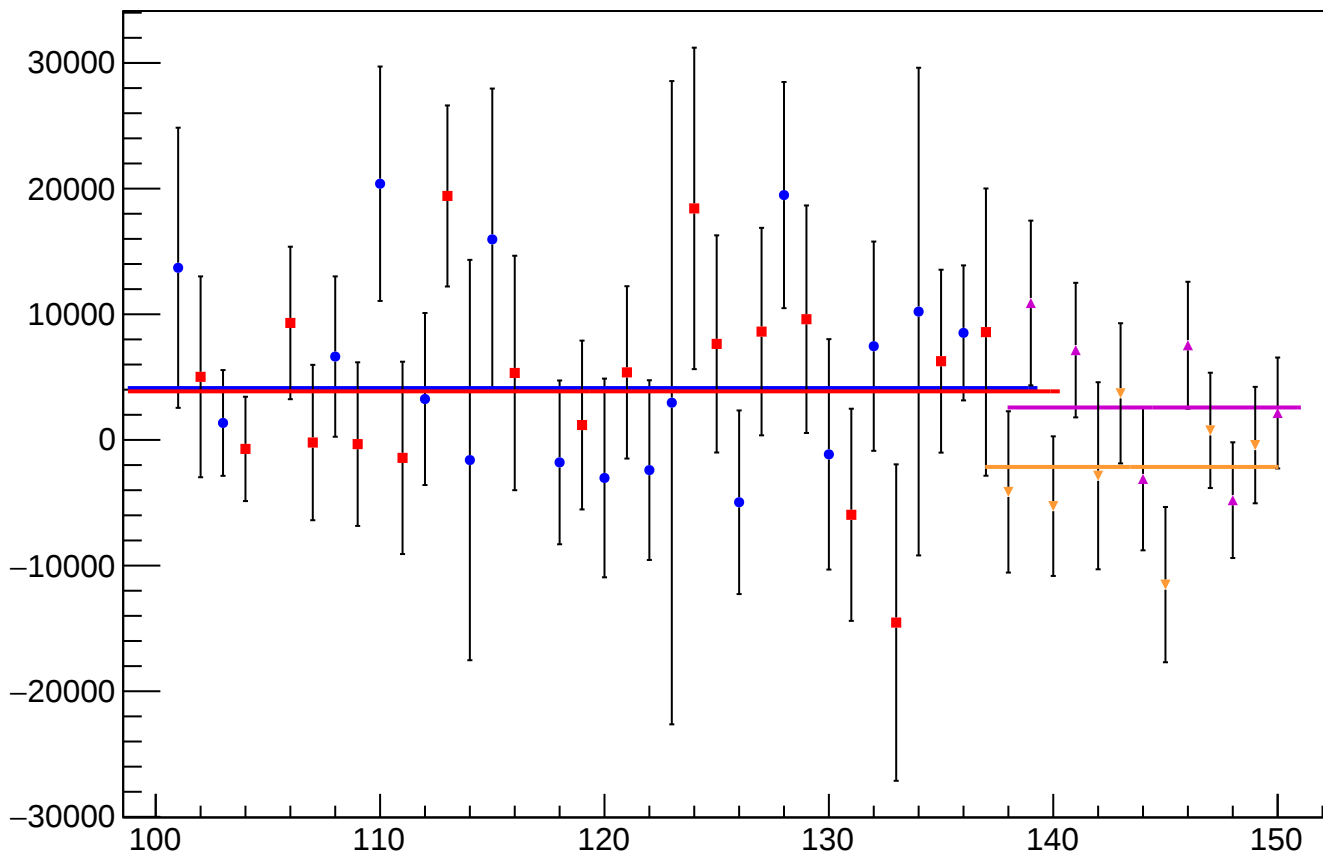
Right: 3603.092 $\pm$ 0.744  $\chi^2/\text{NDF}$ : 3793704.0/34

In: 4169.119 $\pm$ 0.884  $\chi^2/\text{NDF}$ : 1052970.5/22

Out: 3579.326 $\pm$ 0.783  $\chi^2/\text{NDF}$ : 3104063.8/24

All: 3838.603 $\pm$ 0.586  $\chi^2/\text{NDF}$ : 4406362.9/47

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



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

Left Out: -2148.330 $\pm$ 2098.146  $\chi^2$ /NDF: 4.4/6

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

Left In: 2583.499 $\pm$ 2099.558  $\chi^2$ /NDF: 6.9/5

Left: 215.994 $\pm$ 1484.112  $\chi^2$ /NDF: 13.8/12

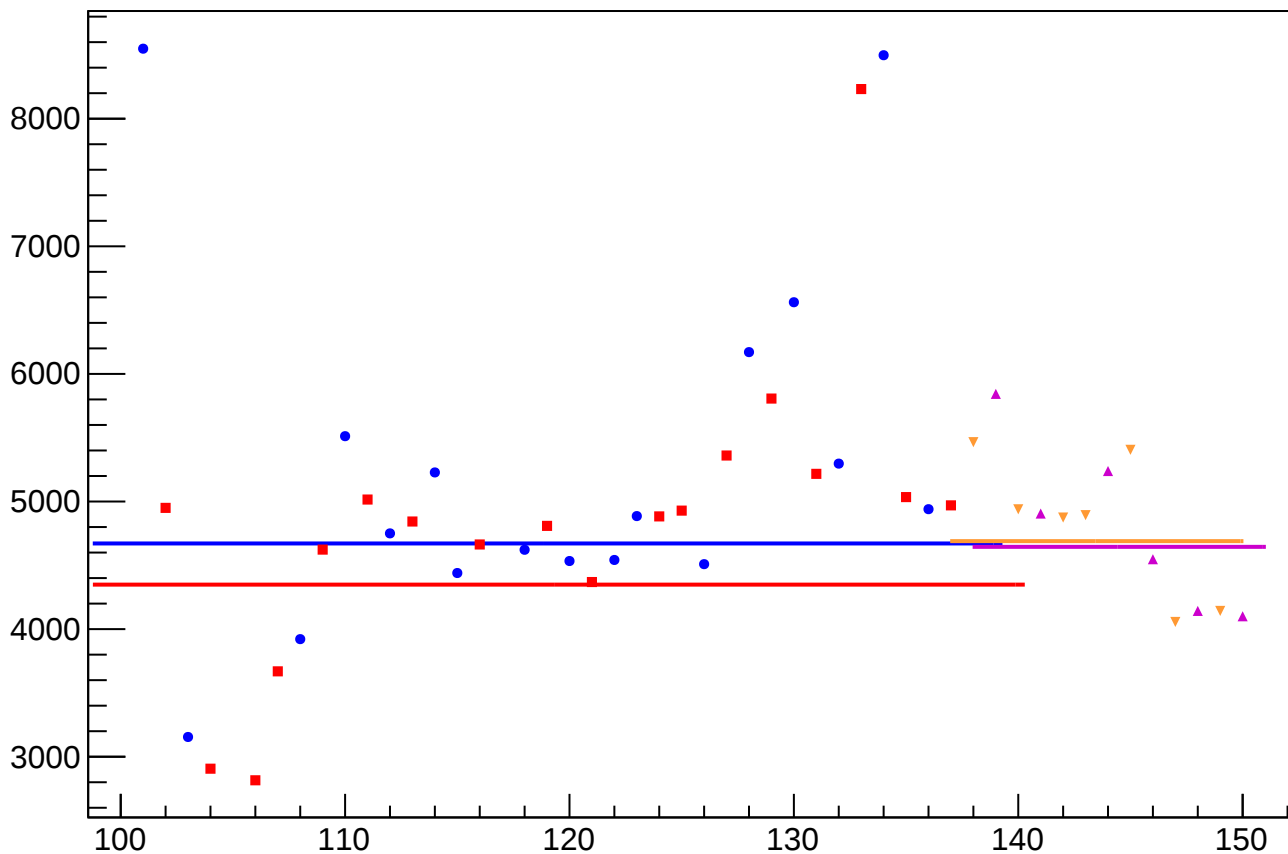
Right: 3986.746 $\pm$ 1266.737  $\chi^2$ /NDF: 27.9/34

In: 3446.835 $\pm$ 1393.528  $\chi^2$ /NDF: 20.9/22

Out: 1436.424 $\pm$ 1333.622  $\chi^2$ /NDF: 23.5/24

All: 2397.490 $\pm$ 963.496  $\chi^2$ /NDF: 45.5/47

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



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

Left Out: 4689.518+/-1.484  $\chi^2/\text{NDF}$ : 129950.6/6

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

Left In: 4644.819+/-1.485  $\chi^2/\text{NDF}$ : 148432.0/5

Left: 4667.184+/-1.049  $\chi^2/\text{NDF}$ : 278836.1/12

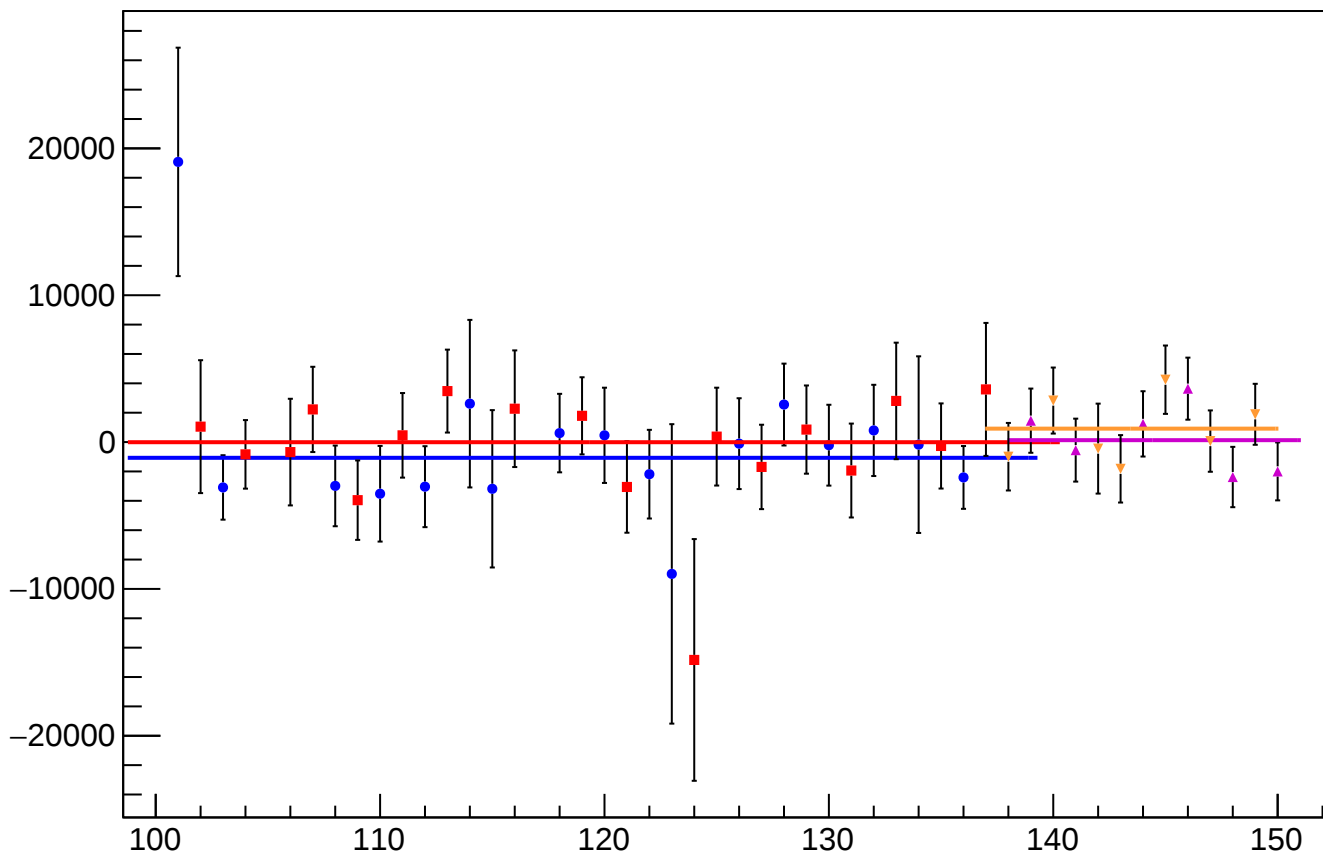
Right: 4496.923+/-0.893  $\chi^2/\text{NDF}$ : 1610954.9/34

In: 4659.645+/-0.985  $\chi^2/\text{NDF}$ : 934722.3/22

Out: 4485.452+/-0.940  $\chi^2/\text{NDF}$ : 953971.7/24

All: 4568.423+/-0.680  $\chi^2/\text{NDF}$ : 1905059.5/47

# 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:  $915.311 \pm 867.442$   $\chi^2/\text{NDF}$ : 5.5/6

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

Left In:  $129.636 \pm 861.682$   $\chi^2/\text{NDF}$ : 6.1/5

Left:  $519.856 \pm 611.328$   $\chi^2/\text{NDF}$ : 12.0/12

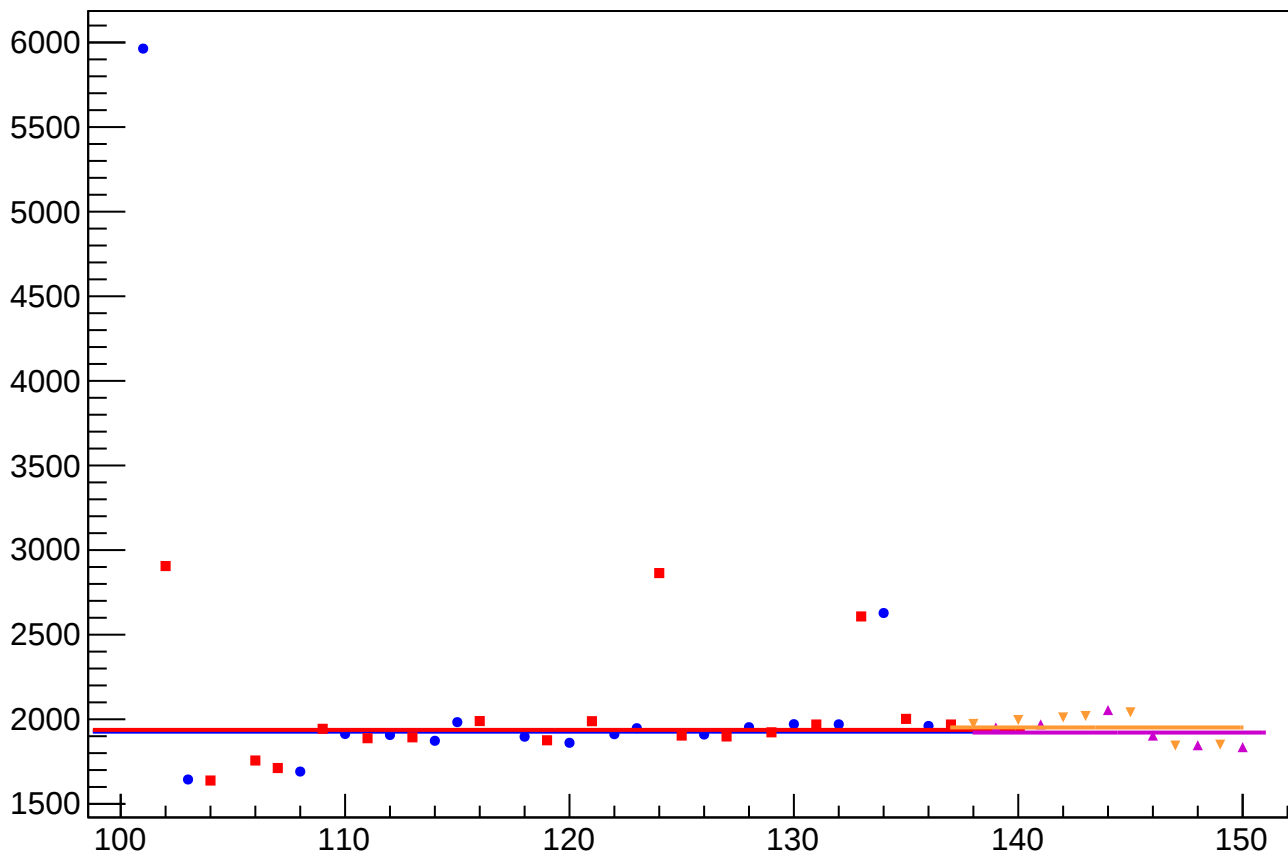
Right:  $-529.623 \pm 534.164$   $\chi^2/\text{NDF}$ : 26.1/34

In:  $-543.505 \pm 571.228$   $\chi^2/\text{NDF}$ : 20.9/22

Out:  $385.292 \pm 566.516$   $\chi^2/\text{NDF}$ : 17.5/24

All:  $-75.261 \pm 402.243$   $\chi^2/\text{NDF}$ : 39.8/47

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



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

Left Out: 1951.766+/-0.613  $\chi^2/\text{NDF}$ : 16429.5/6

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

Left In: 1921.533+/-0.609  $\chi^2/\text{NDF}$ : 15177.5/5

Left: 1936.549+/-0.432  $\chi^2/\text{NDF}$ : 32829.8/12

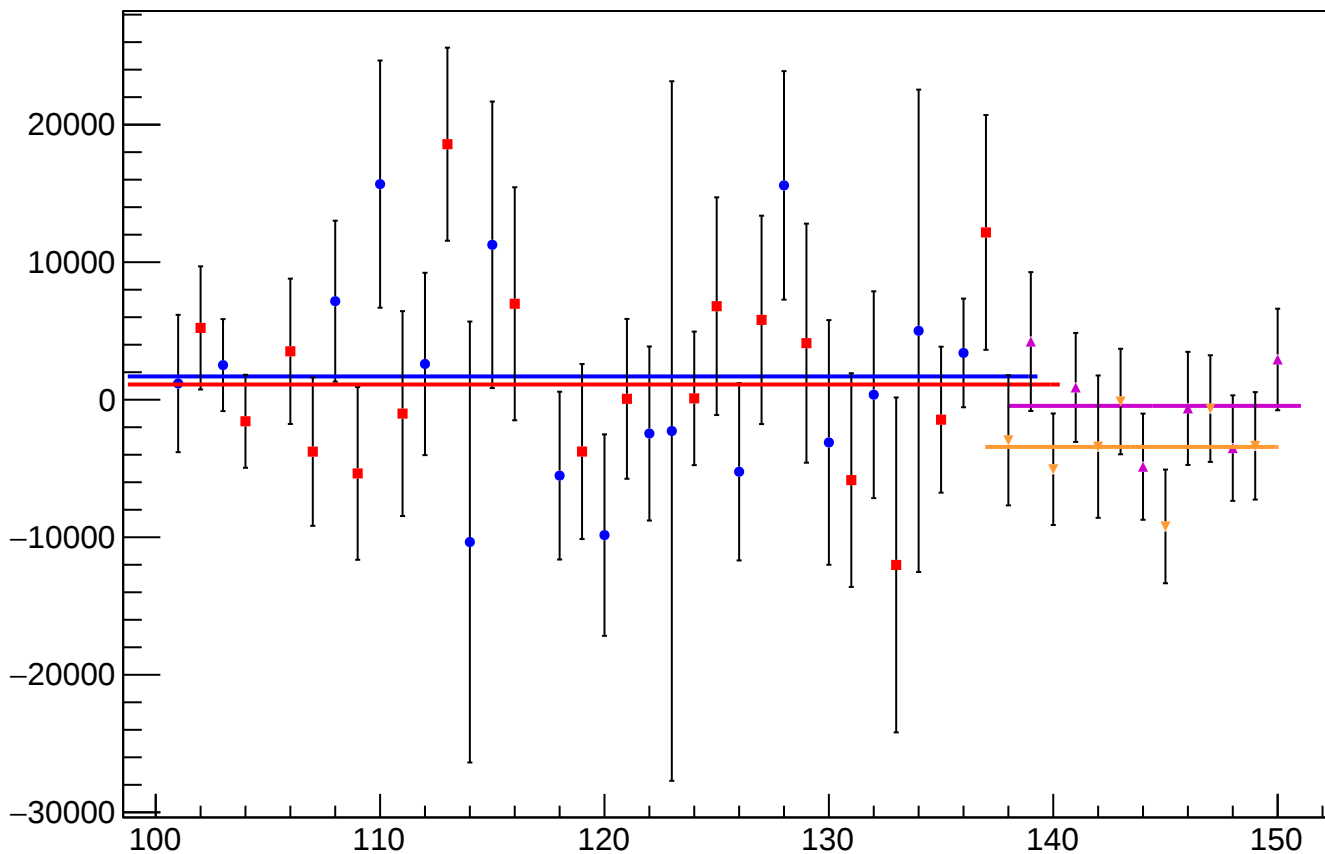
Right: 1932.191+/-0.378  $\chi^2/\text{NDF}$ : 846384.9/34

In: 1924.536+/-0.404  $\chi^2/\text{NDF}$ : 632337.1/22

Out: 1943.453+/-0.400  $\chi^2/\text{NDF}$ : 245829.0/24

All: 1934.077+/-0.284  $\chi^2/\text{NDF}$ : 879272.4/47

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: -3432.498 $\pm$ 1578.402  $\chi^2/\text{NDF}$ : 3.4/6

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

Left In: -446.751 $\pm$ 1642.684  $\chi^2/\text{NDF}$ : 3.8/5

Left: -1999.186 $\pm$ 1138.146  $\chi^2/\text{NDF}$ : 8.9/12

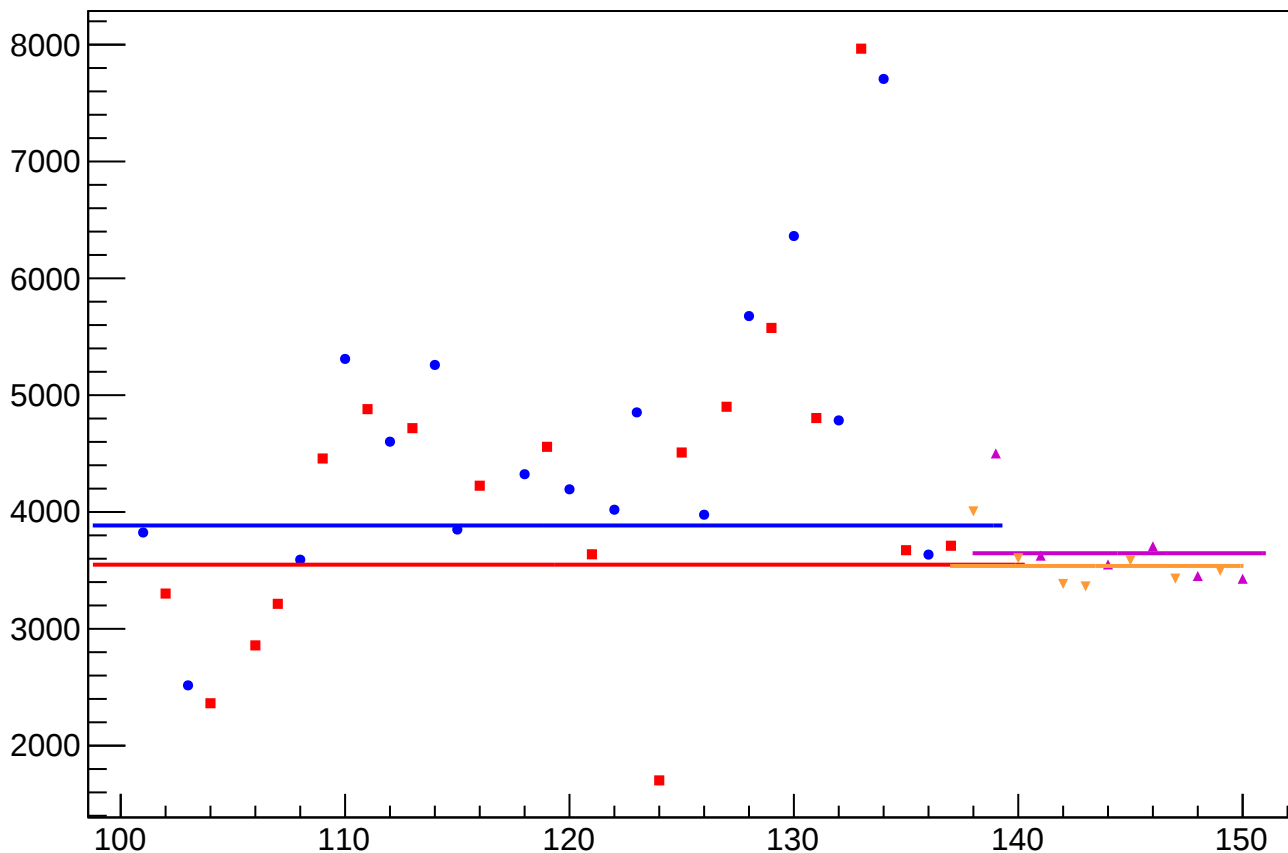
Right: 1373.479 $\pm$ 1044.694  $\chi^2/\text{NDF}$ : 29.6/34

In: 684.365 $\pm$ 1128.104  $\chi^2/\text{NDF}$ : 18.3/22

Out: -911.521 $\pm$ 1052.654  $\chi^2/\text{NDF}$ : 23.8/24

All: -168.727 $\pm$ 769.631  $\chi^2/\text{NDF}$ : 43.2/47

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



Right In: 3884.603+/-1.097  $\chi^2/\text{NDF}$ : 826563.8/16

Left Out: 3538.286+/-1.116  $\chi^2/\text{NDF}$ : 28014.2/6

Right Out: 3549.133+/-0.999  $\chi^2/\text{NDF}$ : 1326947.7/17

Left In: 3647.112+/-1.162  $\chi^2/\text{NDF}$ : 71156.0/5

Left: 3590.528+/-0.805  $\chi^2/\text{NDF}$ : 103734.2/12

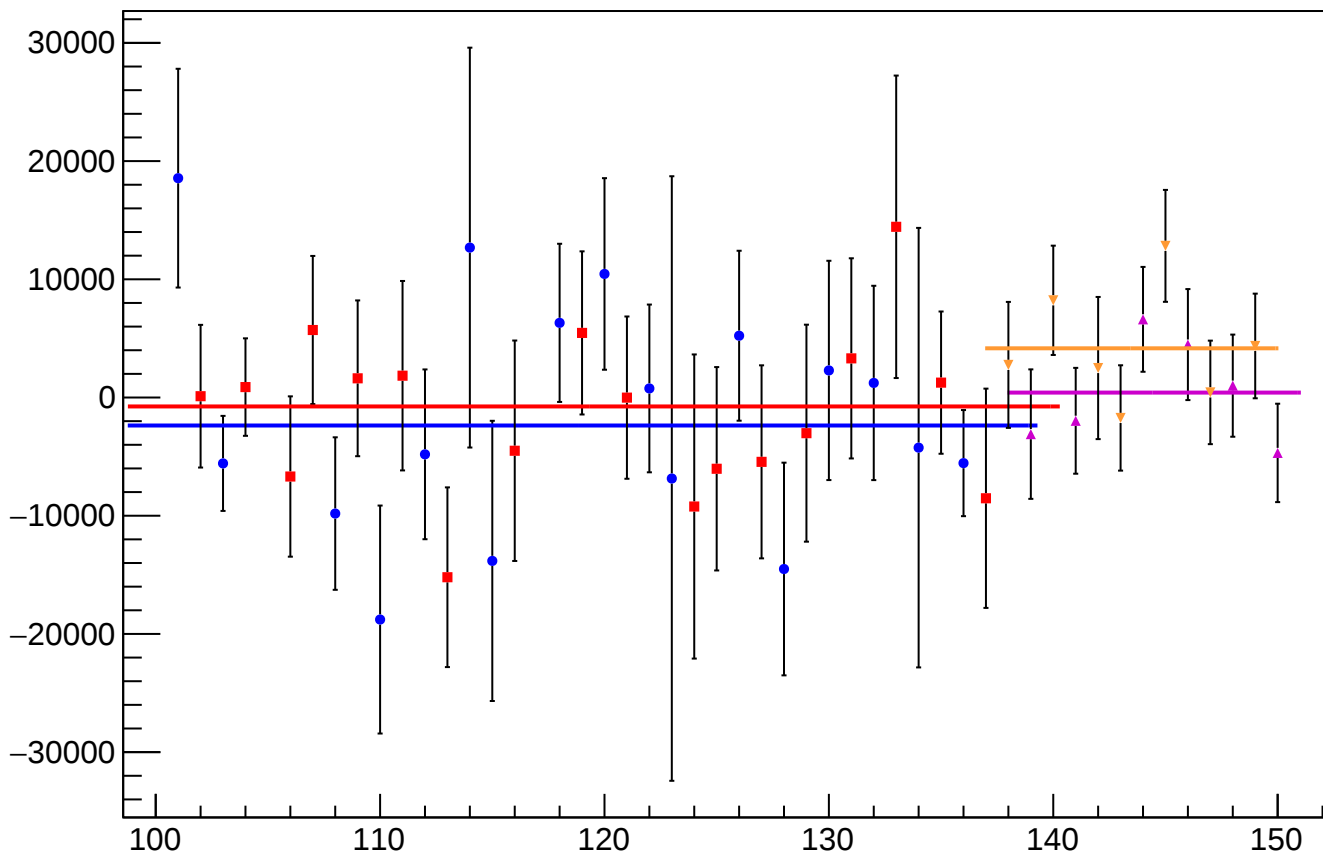
Right: 3701.146+/-0.739  $\chi^2/\text{NDF}$ : 2204616.7/34

In: 3772.598+/-0.798  $\chi^2/\text{NDF}$ : 919808.0/22

Out: 3544.309+/-0.744  $\chi^2/\text{NDF}$ : 1355014.3/24

All: 3650.564+/-0.544  $\chi^2/\text{NDF}$ : 2318604.4/47

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



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

Left Out: 4162.433 $\pm$ 1802.344  $\chi^2$ /NDF:6.7/6

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

Left In: 416.514 $\pm$ 1854.649  $\chi^2$ /NDF:4.9/5

Left: 2343.039 $\pm$ 1292.546  $\chi^2$ /NDF: 13.8/12

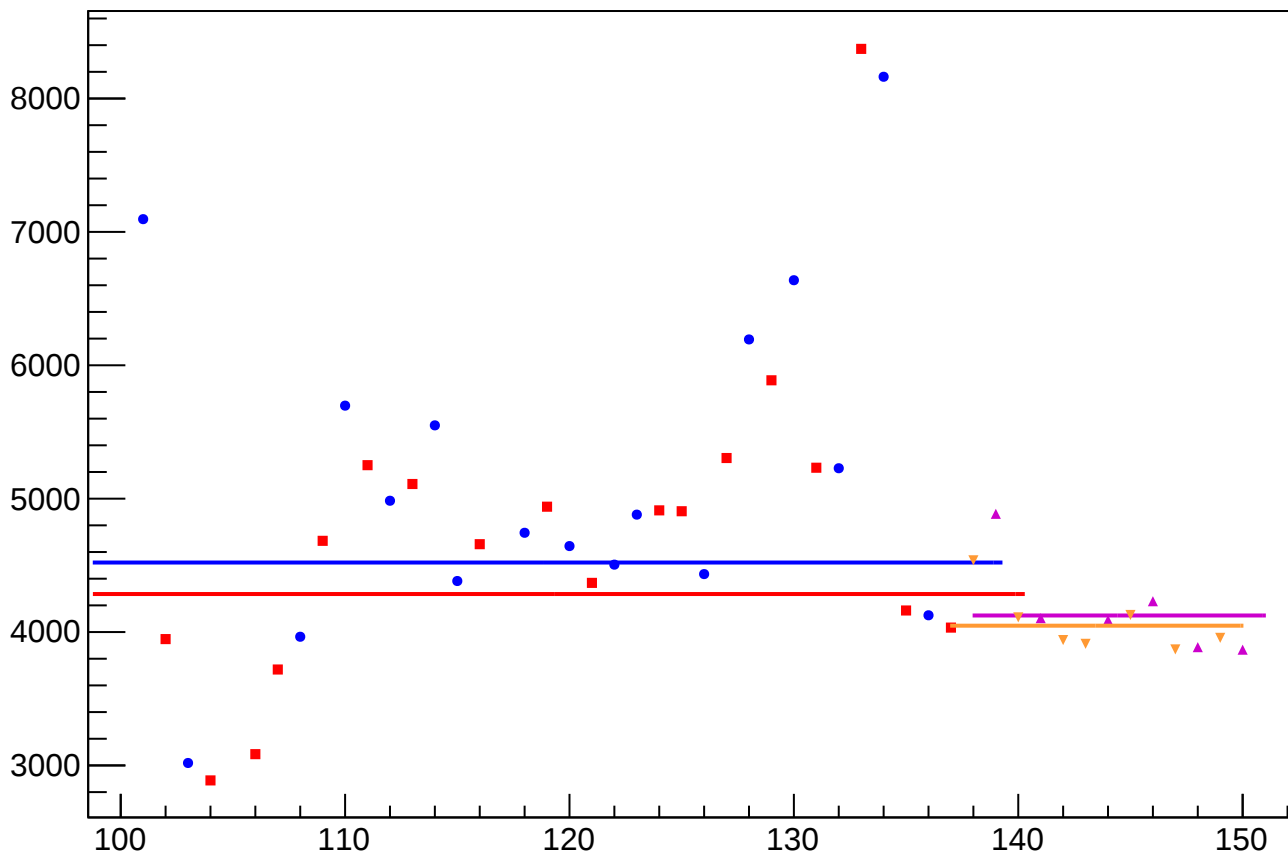
Right: -1511.498 $\pm$ 1233.889  $\chi^2$ /NDF: 31.1/34

In: -1015.627 $\pm$ 1292.397  $\chi^2$ /NDF:26.2/22

Out: 1549.782 $\pm$ 1234.018  $\chi^2$ /NDF:21.2/24

All: 326.327 $\pm$ 892.507  $\chi^2$ /NDF: 49.5/47

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



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

Left Out: 4047.719+/-1.274  $\chi^2/\text{NDF}$ : 24505.1/6

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

Left In: 4124.174+/-1.311  $\chi^2/\text{NDF}$ : 53566.7/5

Left: 4084.853+/-0.914  $\chi^2/\text{NDF}$ : 79819.8/12

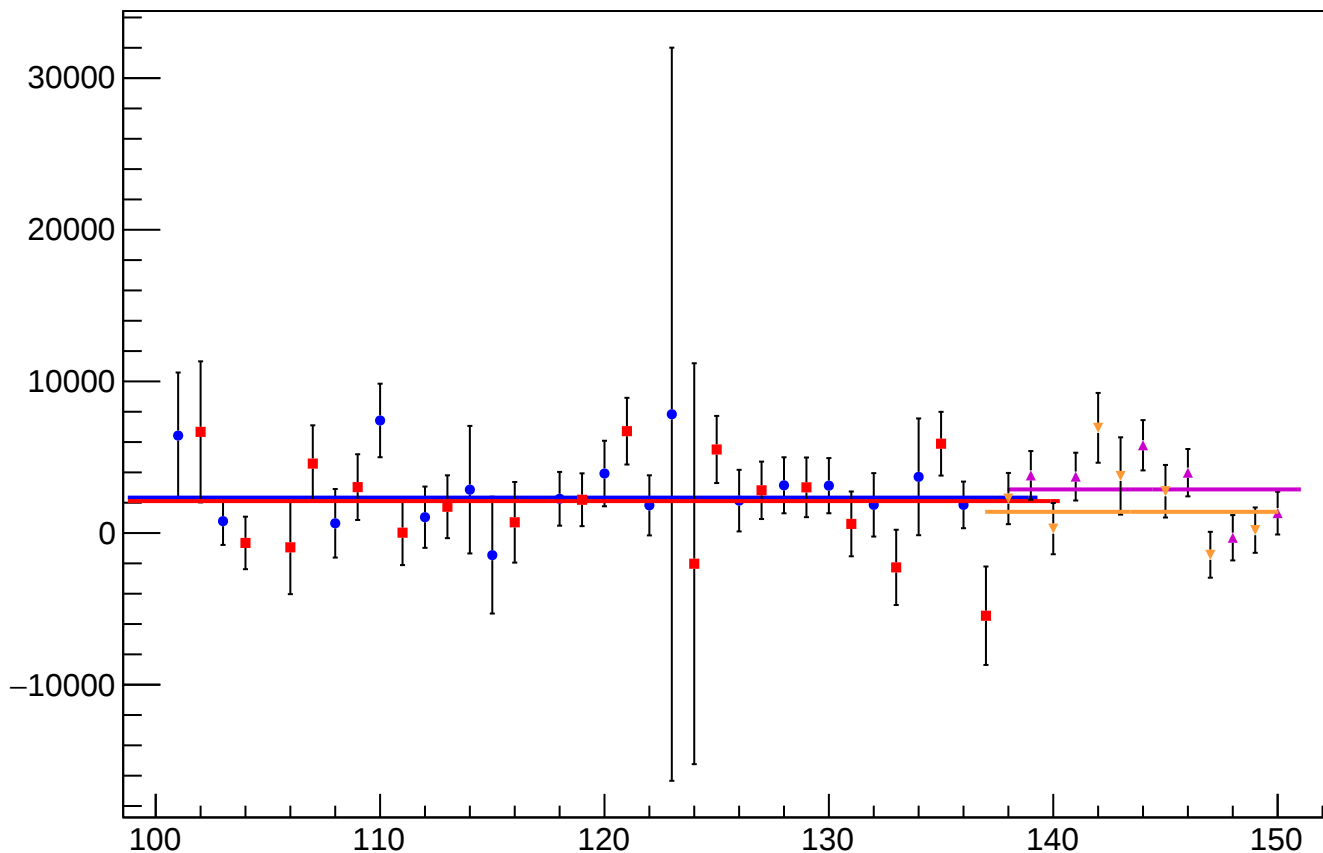
Right: 4395.146+/-0.870  $\chi^2/\text{NDF}$ : 1543416.6/34

In: 4328.424+/-0.914  $\chi^2/\text{NDF}$ : 879396.0/22

Out: 4174.464+/-0.870  $\chi^2/\text{NDF}$ : 789427.4/24

All: 4247.660+/-0.630  $\chi^2/\text{NDF}$ : 1683712.3/47

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



Right In: 2336.975+/-531.132  $\chi^2/\text{NDF}$ : 9.6/16

Left Out: 1400.898+/-665.132  $\chi^2/\text{NDF}$ :12.1/6

Right Out: 2107.117+/-539.611  $\chi^2/\text{NDF}$ : 26.4/17

Left In: 2877.678+/-630.648  $\chi^2/\text{NDF}$ :10.0/5

Left: 2178.561+/-457.641  $\chi^2/\text{NDF}$ : 24.7/12

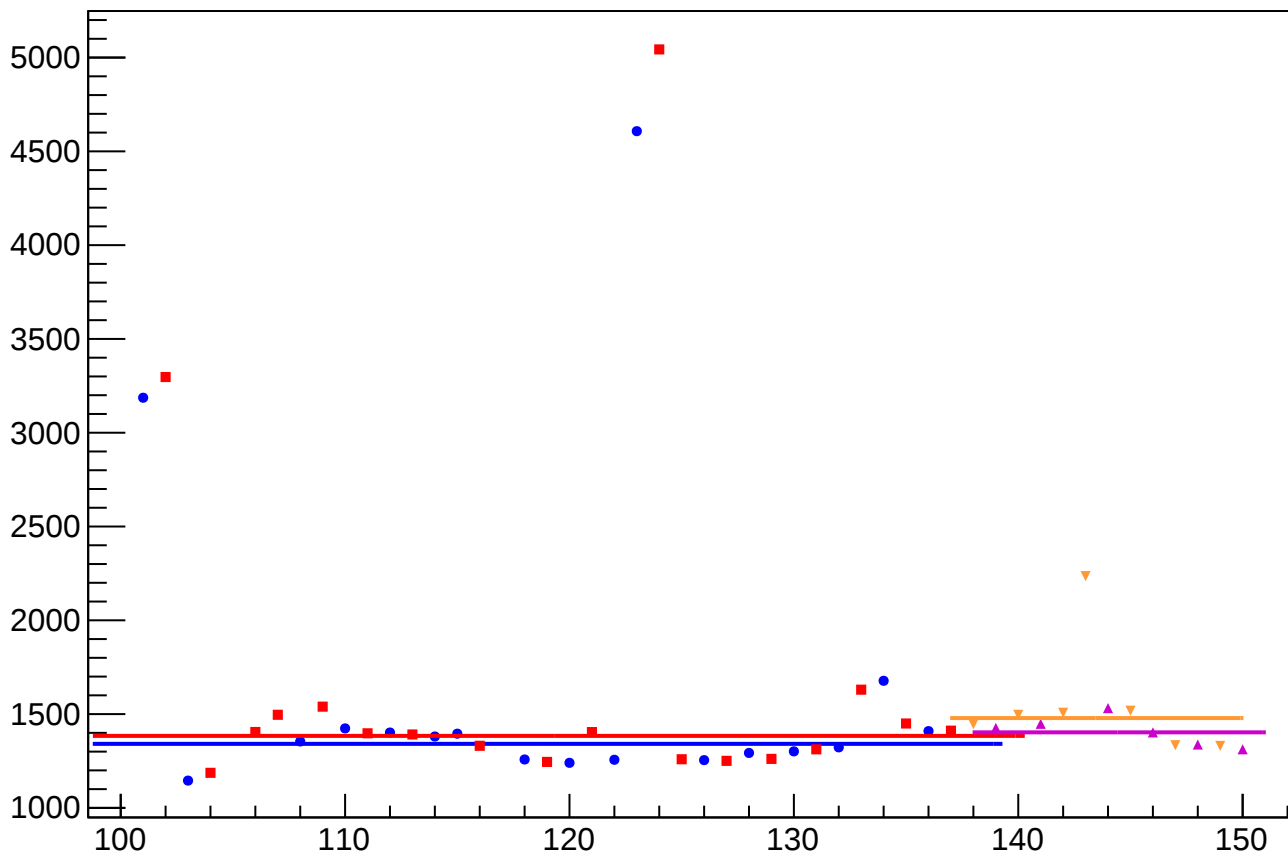
Right: 2223.866+/-378.529  $\chi^2/\text{NDF}$ : 36.1/34

In: 2561.348+/-406.250  $\chi^2/\text{NDF}$ :20.0/22

Out: 1826.798+/-419.049  $\chi^2/\text{NDF}$ :39.2/24

All: 2205.462+/-291.682  $\chi^2/\text{NDF}$ : 60.8/47

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: 1478.840+/-0.470  $\chi^2/\text{NDF}$ : 216594.6/6

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

Left In: 1402.709+/-0.446  $\chi^2/\text{NDF}$ : 26209.6/5

Left: 1438.750+/-0.324  $\chi^2/\text{NDF}$ : 256602.2/12

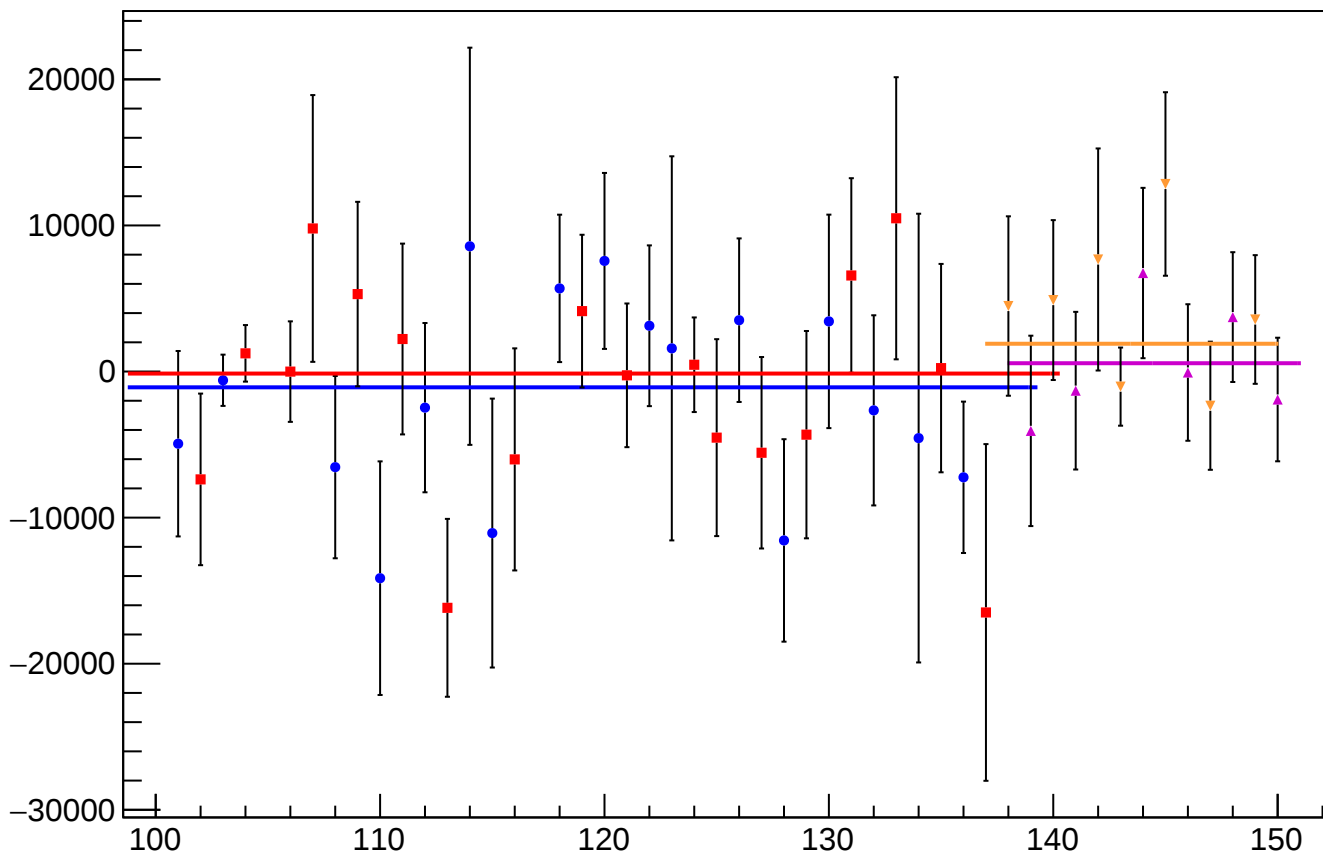
Right: 1362.318+/-0.268  $\chi^2/\text{NDF}$ : 1104435.3/34

In: 1366.826+/-0.287  $\chi^2/\text{NDF}$ : 541549.4/22

Out: 1421.574+/-0.296  $\chi^2/\text{NDF}$ : 835015.8/24

All: 1393.358+/-0.206  $\chi^2/\text{NDF}$ : 1394168.3/47

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: 1901.958+/-1700.223  $\chi^2/\text{NDF}$ : 6.4/6

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

Left In: 568.861+/-2042.675  $\chi^2/\text{NDF}$ : 2.6/5

Left: 1356.367+/-1306.779  $\chi^2/\text{NDF}$ : 9.2/12

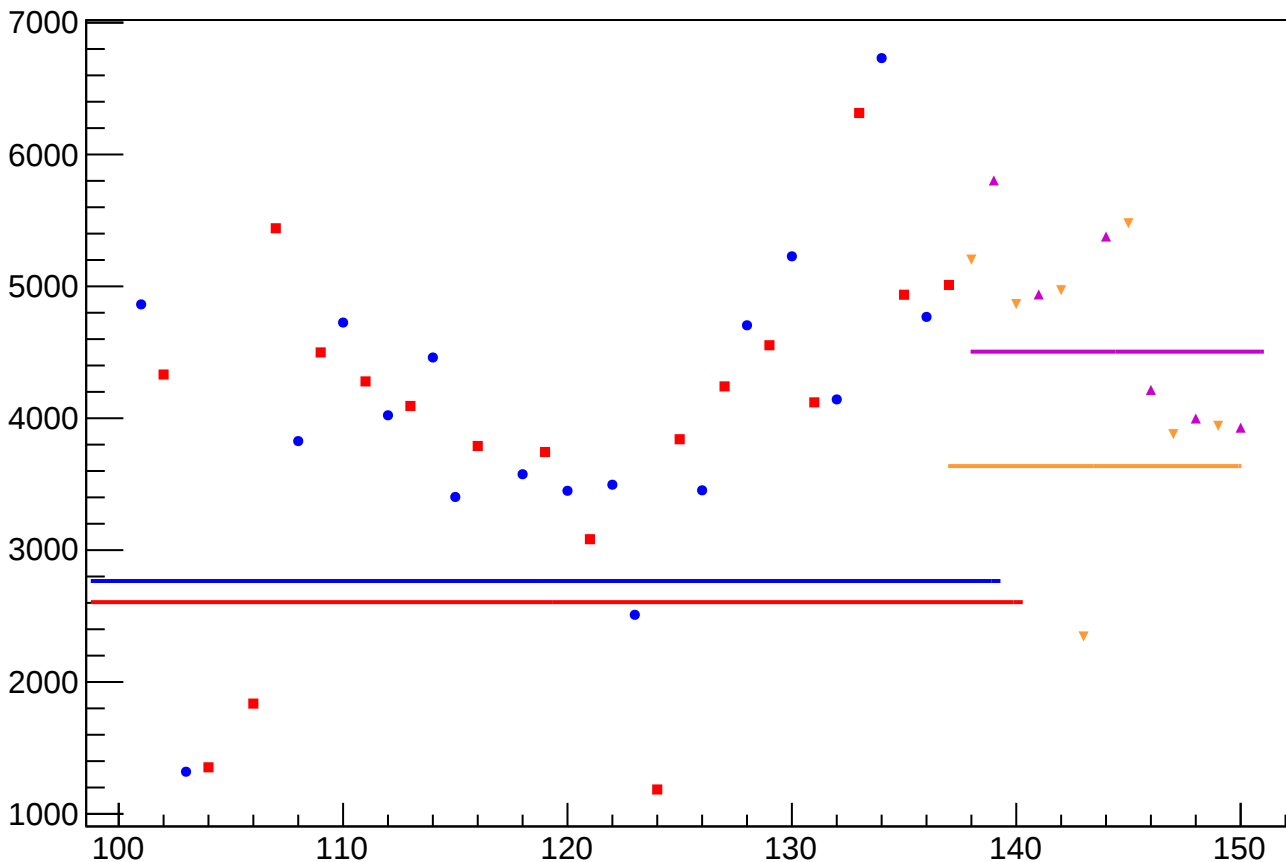
Right: -576.559+/-826.355  $\chi^2/\text{NDF}$ : 33.3/34

In: -651.232+/-1042.575  $\chi^2/\text{NDF}$ : 18.1/22

Out: 485.904+/-940.712  $\chi^2/\text{NDF}$ : 25.4/24

All: -24.414+/-698.427  $\chi^2/\text{NDF}$ : 44.1/47

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: 3637.196+/-1.202  $\chi^2/\text{NDF}$ : 946707.8/6

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

Left In: 4504.932+/-1.444  $\chi^2/\text{NDF}$ : 208029.9/5

Left: 3992.331+/-0.924  $\chi^2/\text{NDF}$ : 1367943.5/12

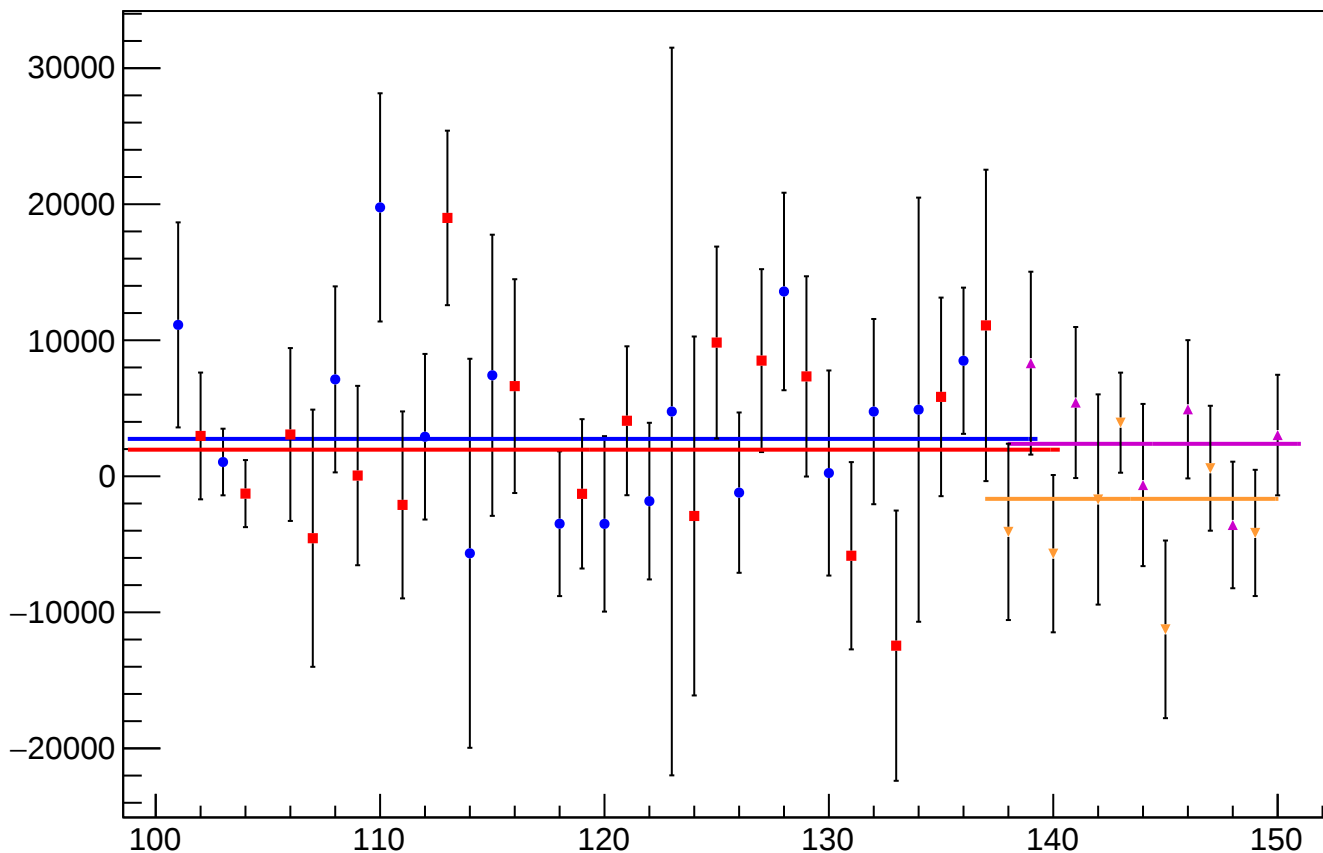
Right: 2679.956+/-0.584  $\chi^2/\text{NDF}$ : 6280117.2/34

In: 3218.806+/-0.737  $\chi^2/\text{NDF}$ : 4219283.8/22

Out: 2921.349+/-0.665  $\chi^2/\text{NDF}$ : 4779993.0/24

All: 3054.840+/-0.494  $\chi^2/\text{NDF}$ : 9089018.0/47

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: -1658.736+/-1954.791  $\chi^2/\text{NDF}$ : 5.6/6

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

Left In: 2386.708+/-2138.955  $\chi^2/\text{NDF}$ : 3.2/5

Left: 182.362+/-1442.969  $\chi^2/\text{NDF}$ : 10.8/12

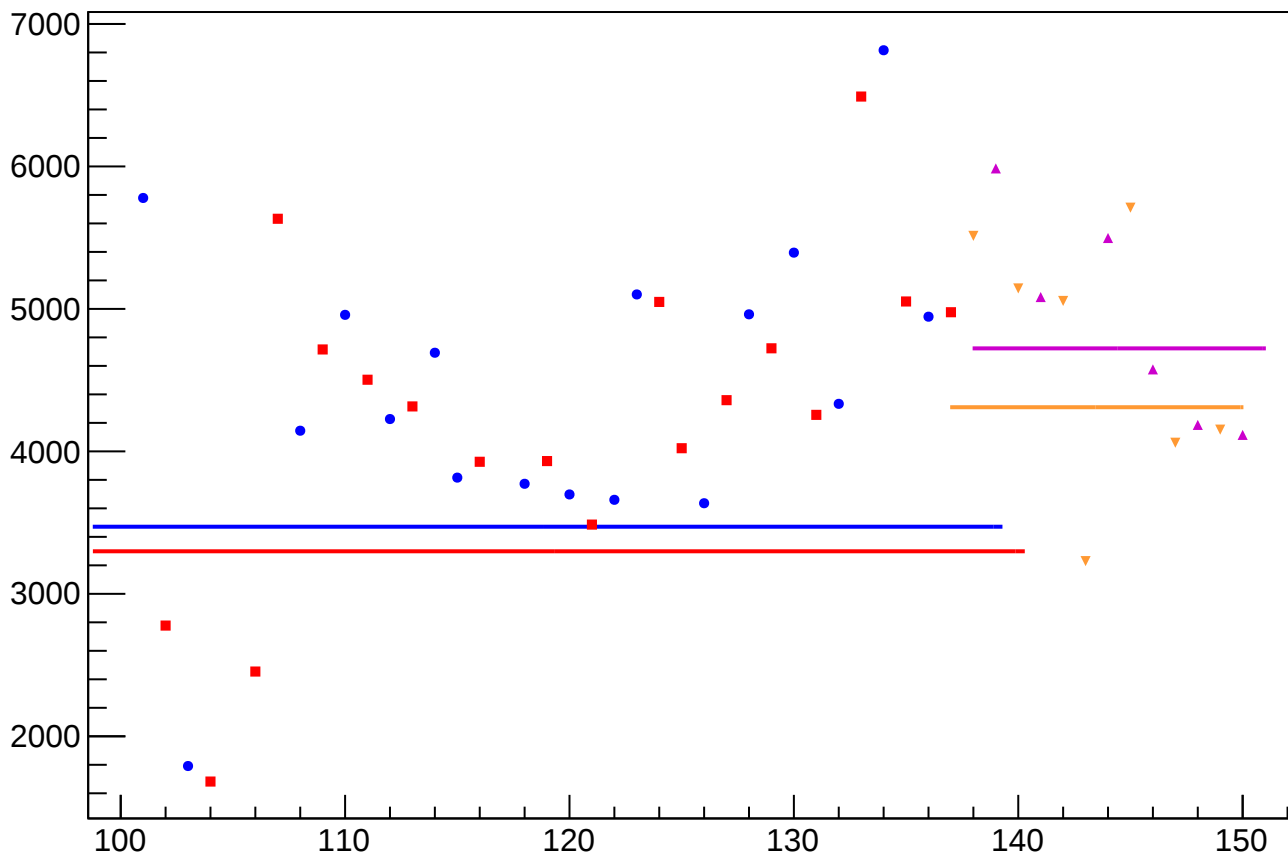
Right: 2334.662+/-1000.160  $\chi^2/\text{NDF}$ : 31.7/34

In: 2634.798+/-1198.305  $\chi^2/\text{NDF}$ : 17.0/22

Out: 748.649+/-1129.717  $\chi^2/\text{NDF}$ : 25.7/24

All: 1636.202+/-822.009  $\chi^2/\text{NDF}$ : 44.1/47

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: 4309.847+/-1.382  $\chi^2/\text{NDF}$ : 401814.7/6

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

Left In: 4722.918+/-1.512  $\chi^2/\text{NDF}$ : 178730.8/5

Left: 4497.837+/-1.020  $\chi^2/\text{NDF}$ : 621188.9/12

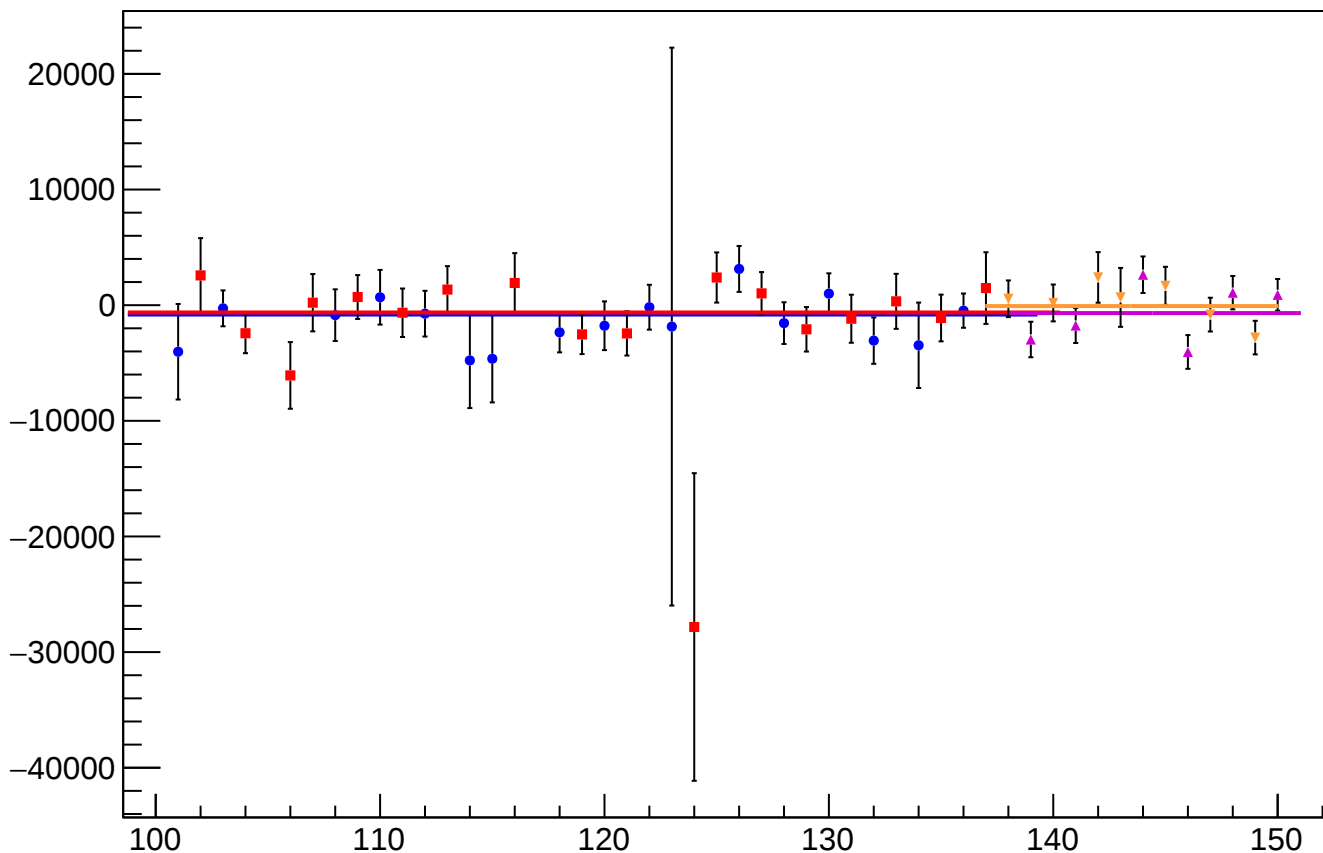
Right: 3380.318+/-0.704  $\chi^2/\text{NDF}$ : 3668889.8/34

In: 3864.015+/-0.847  $\chi^2/\text{NDF}$ : 2416618.5/22

Out: 3632.256+/-0.794  $\chi^2/\text{NDF}$ : 2646453.2/24

All: 3740.605+/-0.579  $\chi^2/\text{NDF}$ : 5102909.9/47

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: -77.955+/-636.811  $\chi^2/\text{NDF}$ : 6.5/6

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

Left In: -682.979+/-603.379  $\chi^2/\text{NDF}$ : 15.3/5

Left: -396.765+/-437.996  $\chi^2/\text{NDF}$ : 22.2/12

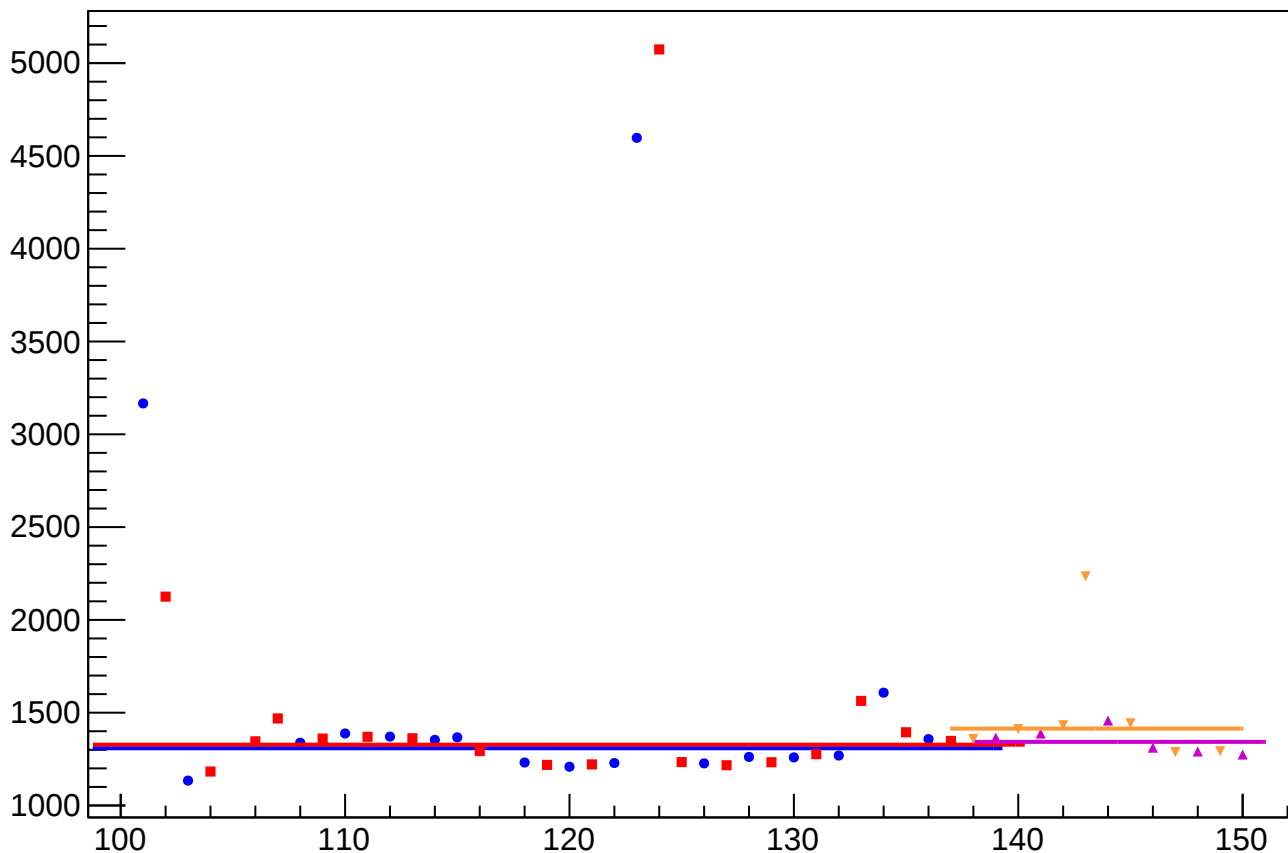
Right: -719.271+/-365.258  $\chi^2/\text{NDF}$ : 29.8/34

In: -755.516+/-393.114  $\chi^2/\text{NDF}$ : 26.5/22

Out: -412.143+/-400.407  $\chi^2/\text{NDF}$ : 25.5/24

All: -586.985+/-280.517  $\chi^2/\text{NDF}$ : 52.3/47

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



Right In: 1308.367 $\pm$ 0.366  $\chi^2$ /NDF: 506545.0/16

Left Out: 1414.237 $\pm$ 0.450  $\chi^2$ /NDF: 239775.0/6

Right Out: 1327.647 $\pm$ 0.364  $\chi^2$ /NDF: 357330.6/17

Left In: 1342.728 $\pm$ 0.427  $\chi^2$ /NDF: 21263.2/5

Left: 1376.556 $\pm$ 0.310  $\chi^2$ /NDF: 274327.1/12

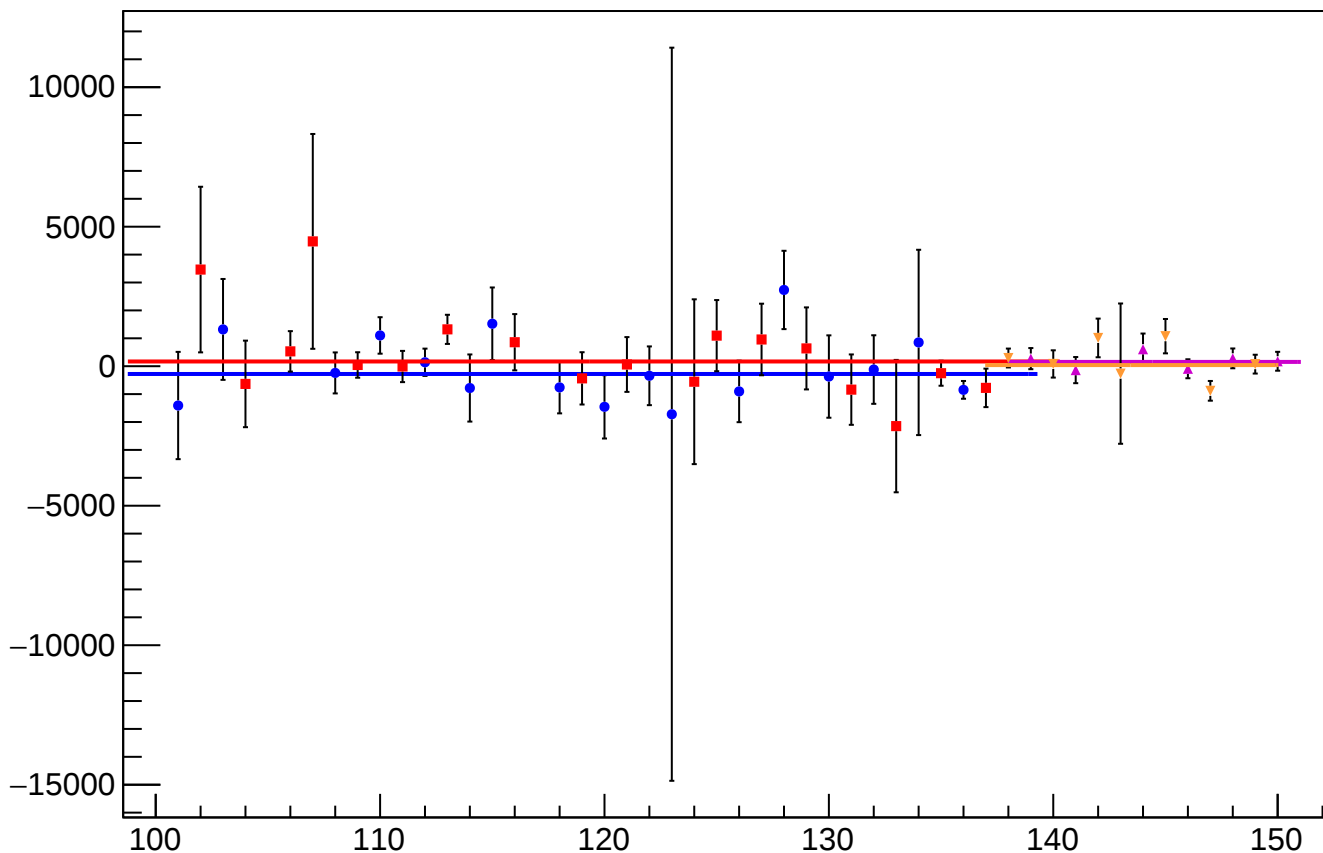
Right: 1318.067 $\pm$ 0.258  $\chi^2$ /NDF: 865268.7/34

In: 1322.952 $\pm$ 0.278  $\chi^2$ /NDF: 531541.2/22

Out: 1361.880 $\pm$ 0.283  $\chi^2$ /NDF: 619464.7/24

All: 1342.058 $\pm$ 0.198  $\chi^2$ /NDF: 1160631.3/47

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



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

Left Out:  $40.306 \pm 169.965$   $\chi^2/\text{NDF}: 12.2/6$

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

Left In:  $154.050 \pm 158.082$   $\chi^2/\text{NDF}: 1.8/5$

Left:  $101.293 \pm 115.754$   $\chi^2/\text{NDF}: 14.2/12$

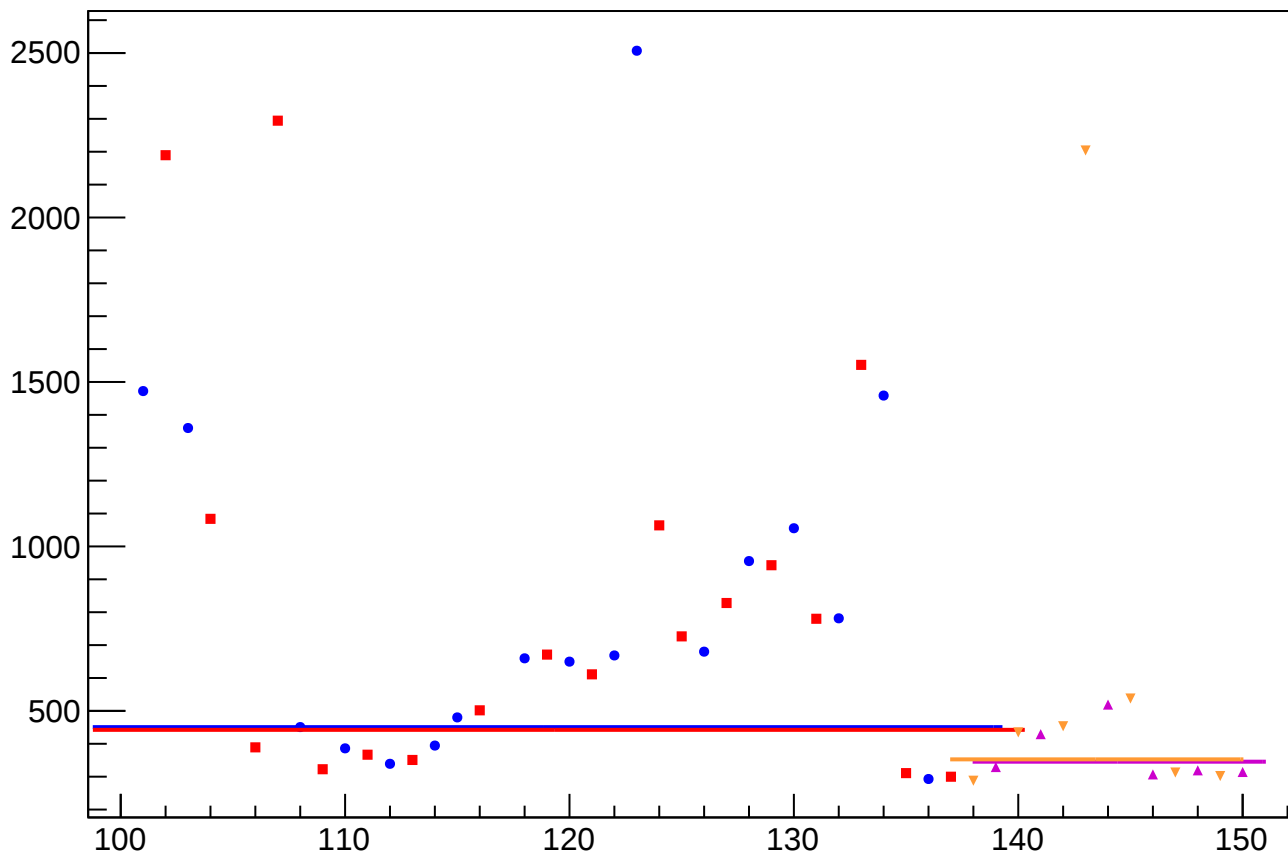
Right:  $-48.085 \pm 138.058$   $\chi^2/\text{NDF}: 35.0/34$

In:  $-14.291 \pm 123.568$   $\chi^2/\text{NDF}: 22.8/22$

Out:  $96.953 \pm 127.406$   $\chi^2/\text{NDF}: 26.8/24$

All:  $39.630 \pm 88.701$   $\chi^2/\text{NDF}: 50.0/47$

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



Right In: 450.595+/-0.140  $\chi^2/\text{NDF}$ : 2997735.1/16

Left Out: 352.622+/-0.120  $\chi^2/\text{NDF}$ : 1507977.6/6

Right Out: 442.368+/-0.136  $\chi^2/\text{NDF}$ : 3368329.0/17

Left In: 345.556+/-0.112  $\chi^2/\text{NDF}$ : 311904.0/5

Left: 348.833+/-0.082  $\chi^2/\text{NDF}$ : 1821734.9/12

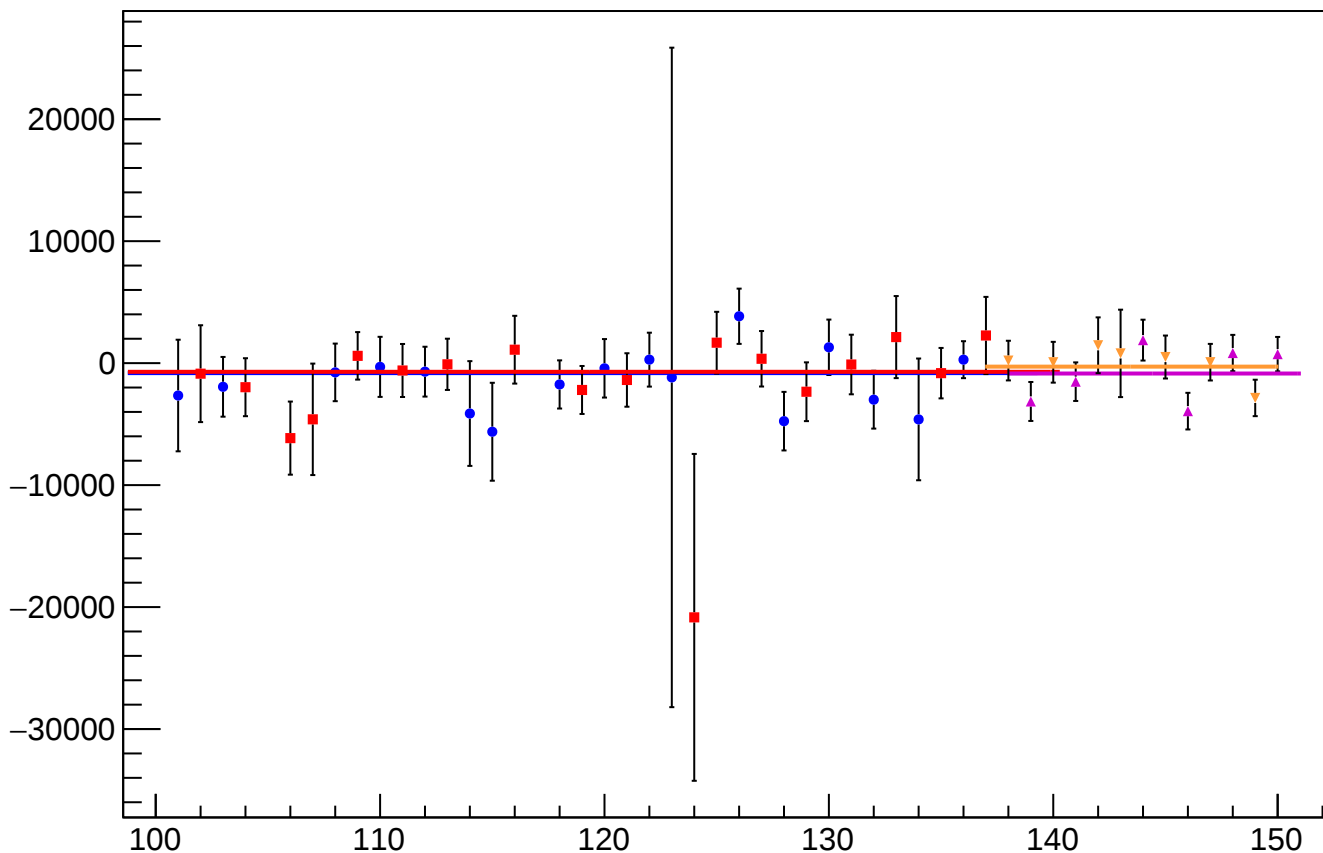
Right: 446.363+/-0.098  $\chi^2/\text{NDF}$ : 6367838.5/34

In: 386.416+/-0.087  $\chi^2/\text{NDF}$ : 3653126.8/22

Out: 391.939+/-0.090  $\chi^2/\text{NDF}$ : 5120599.0/24

All: 389.093+/-0.063  $\chi^2/\text{NDF}$ : 8775662.9/47

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



Right In:  $-817.110 \pm 601.150$   $\chi^2/\text{NDF}$ : 12.7/16

Left Out:  $-286.292 \pm 671.124$   $\chi^2/\text{NDF}$ : 4.0/6

Right Out:  $-710.618 \pm 596.065$   $\chi^2/\text{NDF}$ : 11.4/17

Left In:  $-851.103 \pm 626.786$   $\chi^2/\text{NDF}$ : 11.7/5

Left:  $-587.970 \pm 458.078$   $\chi^2/\text{NDF}$ : 16.1/12

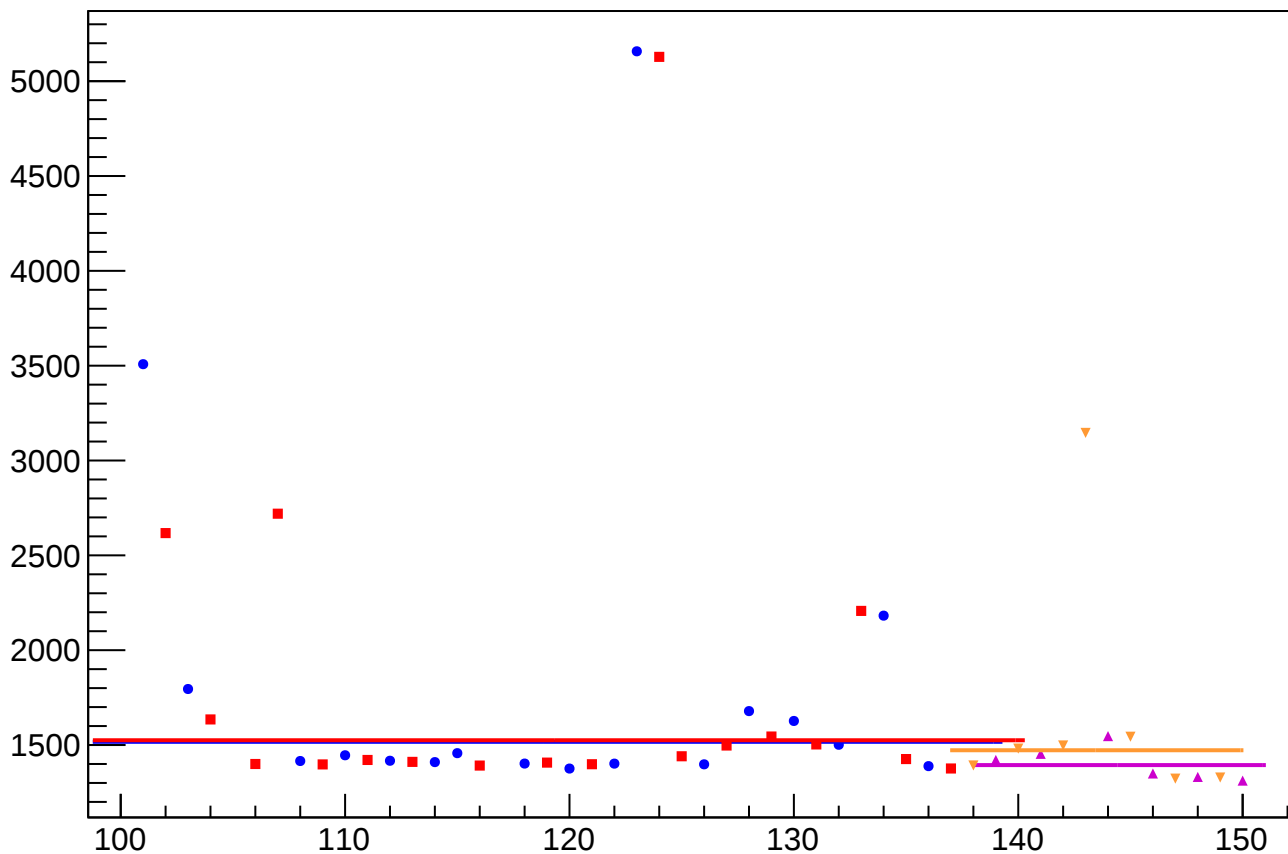
Right:  $-763.412 \pm 423.268$   $\chi^2/\text{NDF}$ : 24.1/34

In:  $-833.397 \pm 433.857$   $\chi^2/\text{NDF}$ : 24.4/22

Out:  $-523.501 \pm 445.666$   $\chi^2/\text{NDF}$ : 15.7/24

All:  $-682.609 \pm 310.874$   $\chi^2/\text{NDF}$ : 40.3/47

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



Right In: 1516.935 $\pm$ 0.425  $\chi^2$ /NDF: 541039.6/16

Left Out: 1472.388 $\pm$ 0.475  $\chi^2$ /NDF: 482866.0/6

Right Out: 1525.099 $\pm$ 0.421  $\chi^2$ /NDF: 571929.2/17

Left In: 1394.158 $\pm$ 0.443  $\chi^2$ /NDF: 32025.8/5

Left: 1430.604 $\pm$ 0.324  $\chi^2$ /NDF: 529406.5/12

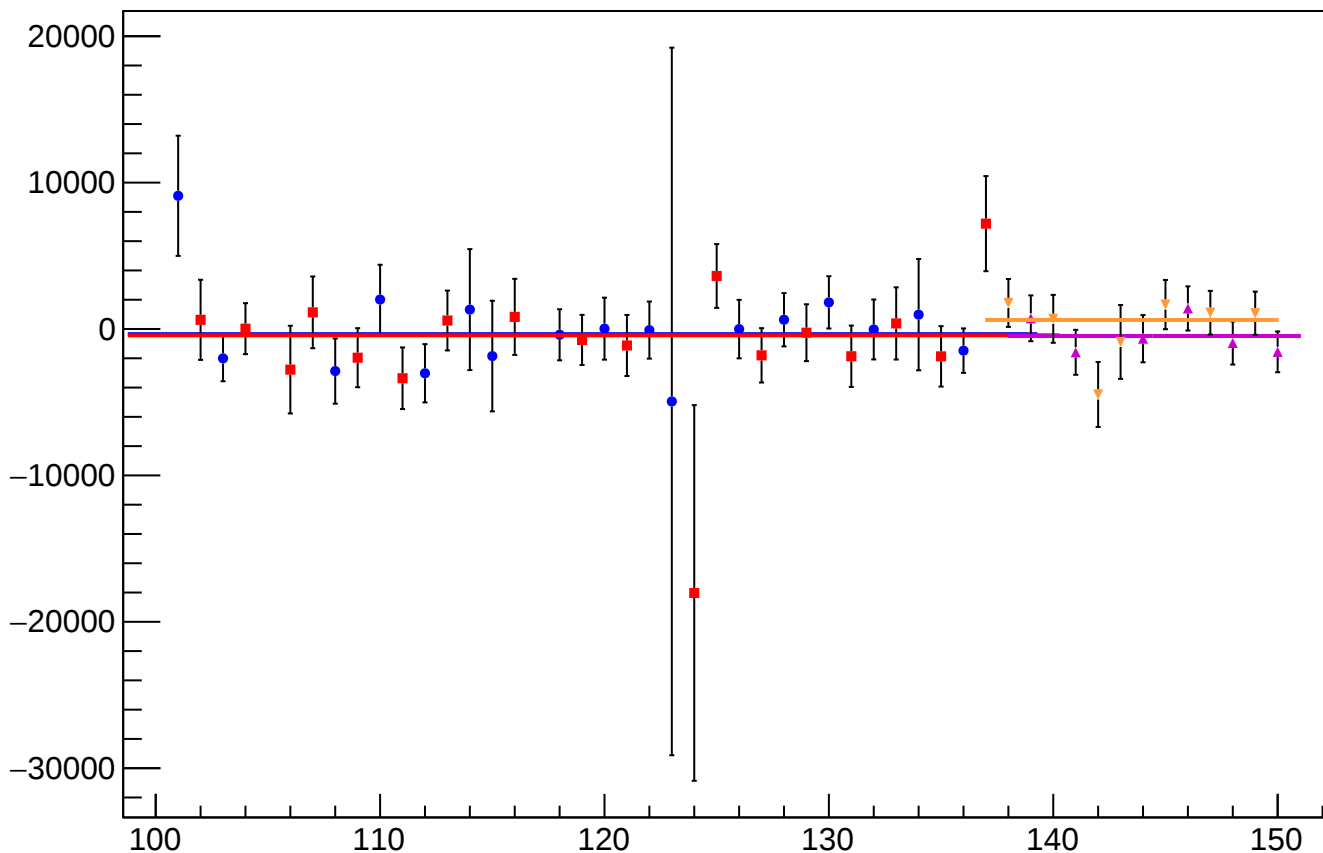
Right: 1521.052 $\pm$ 0.299  $\chi^2$ /NDF: 1113154.8/34

In: 1458.109 $\pm$ 0.307  $\chi^2$ /NDF: 613037.3/22

Out: 1501.855 $\pm$ 0.315  $\chi^2$ /NDF: 1061692.4/24

All: 1479.395 $\pm$ 0.220  $\chi^2$ /NDF: 1684623.6/47

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



Right In:  $-353.131 \pm 523.324$   $\chi^2/\text{NDF}$ : 13.4/16

Left Out:  $618.375 \pm 649.599$   $\chi^2/\text{NDF}$ : 6.7/6

Right Out:  $-429.167 \pm 522.342$   $\chi^2/\text{NDF}$ : 16.8/17

Left In:  $-477.824 \pm 616.211$   $\chi^2/\text{NDF}$ : 3.4/5

Left:  $41.381 \pm 447.064$   $\chi^2/\text{NDF}$ : 11.6/12

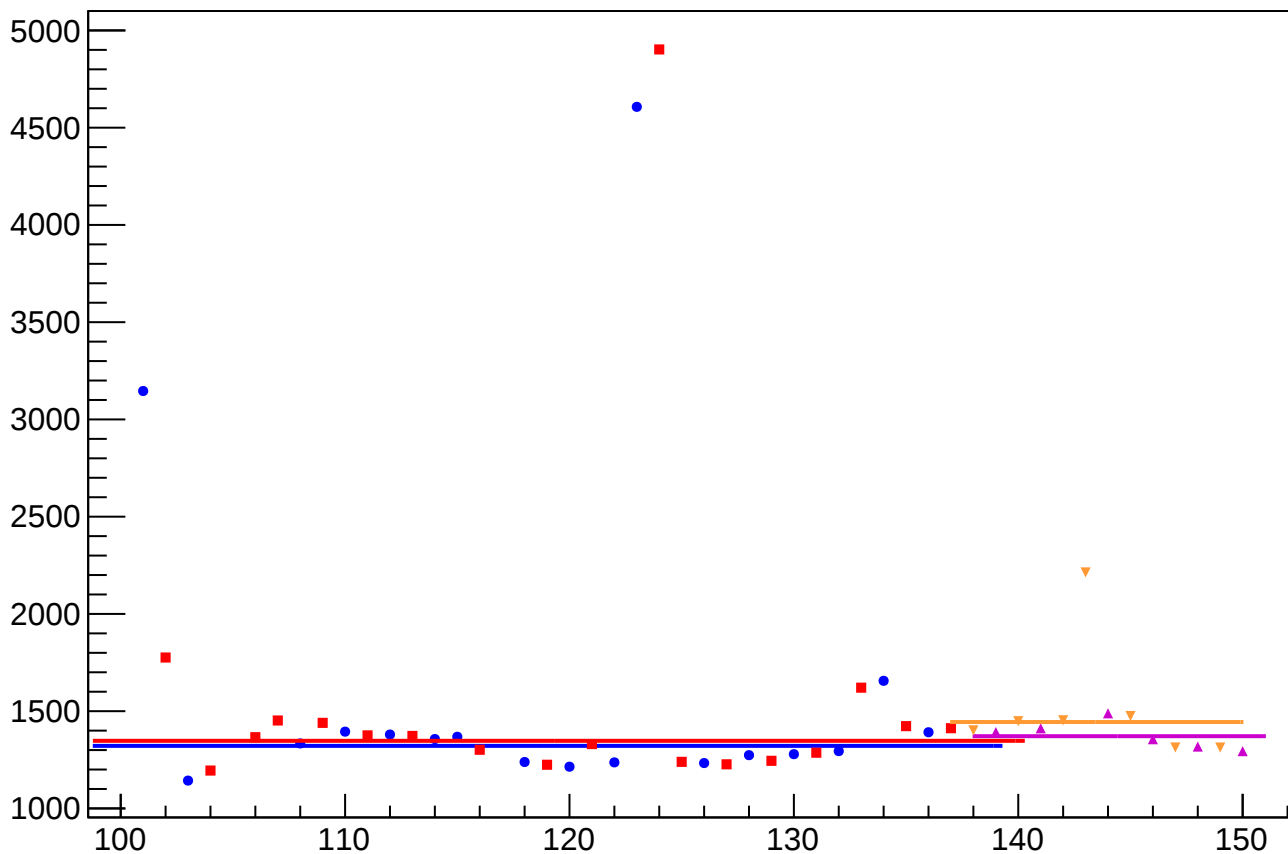
Right:  $-391.220 \pm 369.698$   $\chi^2/\text{NDF}$ : 30.3/34

In:  $-405.380 \pm 398.887$   $\chi^2/\text{NDF}$ : 16.8/22

Out:  $-17.820 \pm 407.065$   $\chi^2/\text{NDF}$ : 25.1/24

All:  $-215.532 \pm 284.903$   $\chi^2/\text{NDF}$ : 42.4/47

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



Right In: 1321.703+/-0.370  $\chi^2/\text{NDF}$ : 502245.7/16

Left Out: 1444.239+/-0.459  $\chi^2/\text{NDF}$ : 219068.7/6

Right Out: 1347.646+/-0.369  $\chi^2/\text{NDF}$ : 286301.2/17

Left In: 1371.384+/-0.436  $\chi^2/\text{NDF}$ : 21356.5/5

Left: 1405.891+/-0.316  $\chi^2/\text{NDF}$ : 253666.5/12

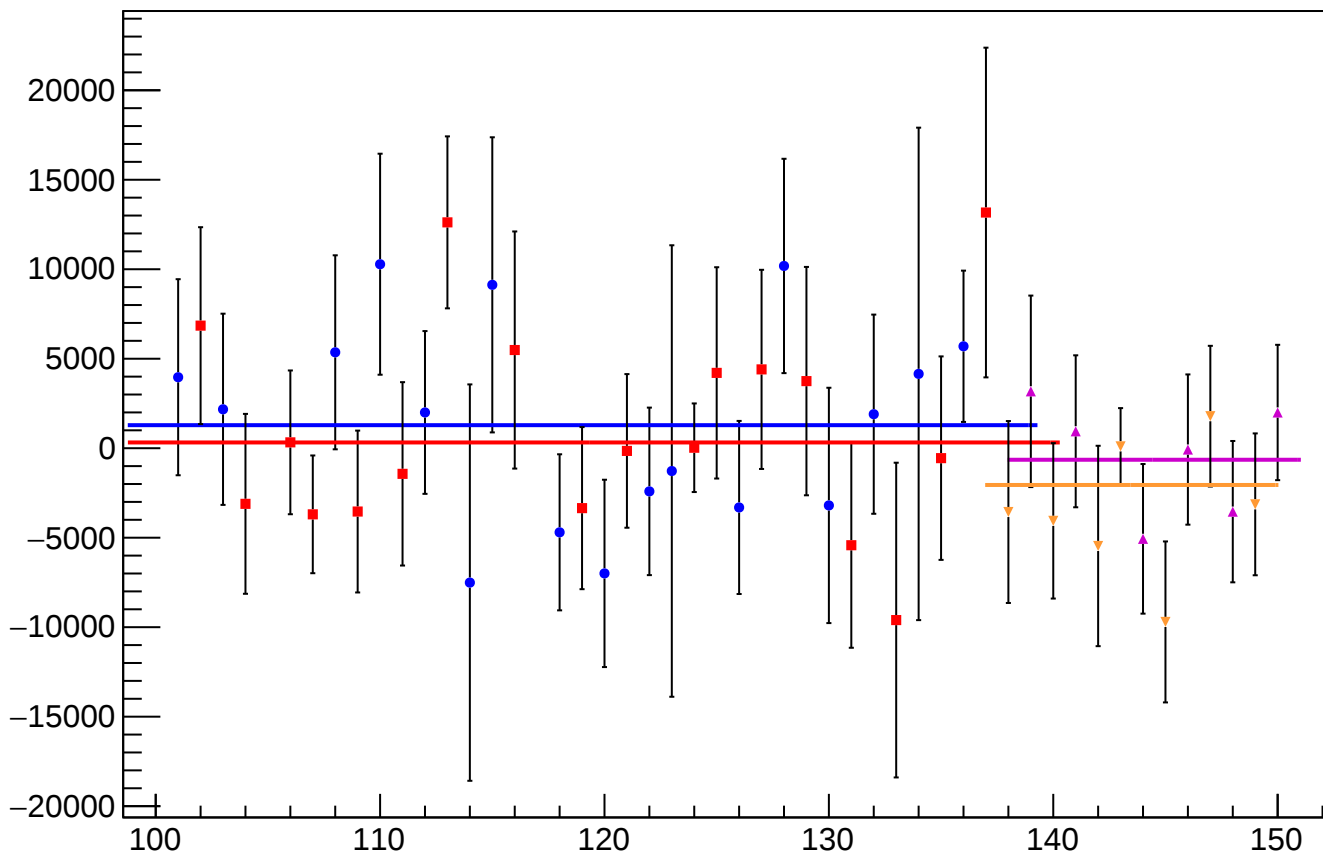
Right: 1334.706+/-0.261  $\chi^2/\text{NDF}$ : 791010.5/34

In: 1342.520+/-0.282  $\chi^2/\text{NDF}$ : 531155.4/22

Out: 1385.550+/-0.288  $\chi^2/\text{NDF}$ : 532237.9/24

All: 1363.606+/-0.201  $\chi^2/\text{NDF}$ : 1074798.1/47

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: -2053.931+/-1386.376  $\chi^2/\text{NDF}$ : 5.6/6

Right Out: 321.508+/-1105.580  $\chi^2/\text{NDF}$ : 17.6/17

Left In: -644.646+/-1718.754  $\chi^2/\text{NDF}$ : 2.8/5

Left: -1498.431+/-1079.086  $\chi^2/\text{NDF}$ : 8.8/12

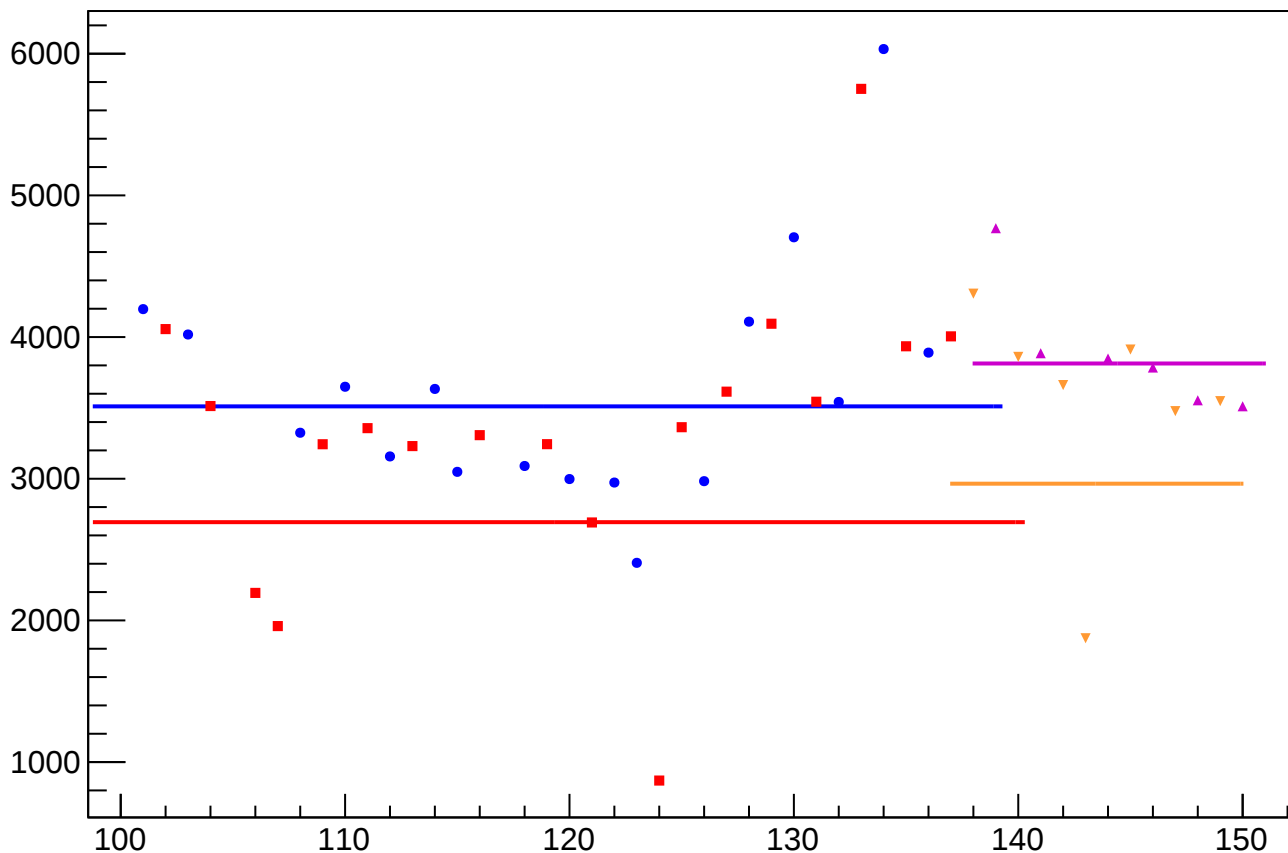
Right: 700.521+/-861.814  $\chi^2/\text{NDF}$ : 32.1/34

In: 532.920+/-1074.101  $\chi^2/\text{NDF}$ : 17.9/22

Out: -601.900+/-864.383  $\chi^2/\text{NDF}$ : 25.0/24

All: -155.842+/-673.406  $\chi^2/\text{NDF}$ : 43.5/47

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



Right In: 3510.799 $\pm$ 0.973  $\chi^2$ /NDF: 344054.4/16

Left Out: 2965.034 $\pm$ 0.980  $\chi^2$ /NDF: 941823.5/6

Right Out: 2693.503 $\pm$ 0.782  $\chi^2$ /NDF: 2125842.2/17

Left In: 3813.479 $\pm$ 1.215  $\chi^2$ /NDF: 85955.0/5

Left: 3299.467 $\pm$ 0.763  $\chi^2$ /NDF: 1323035.1/12

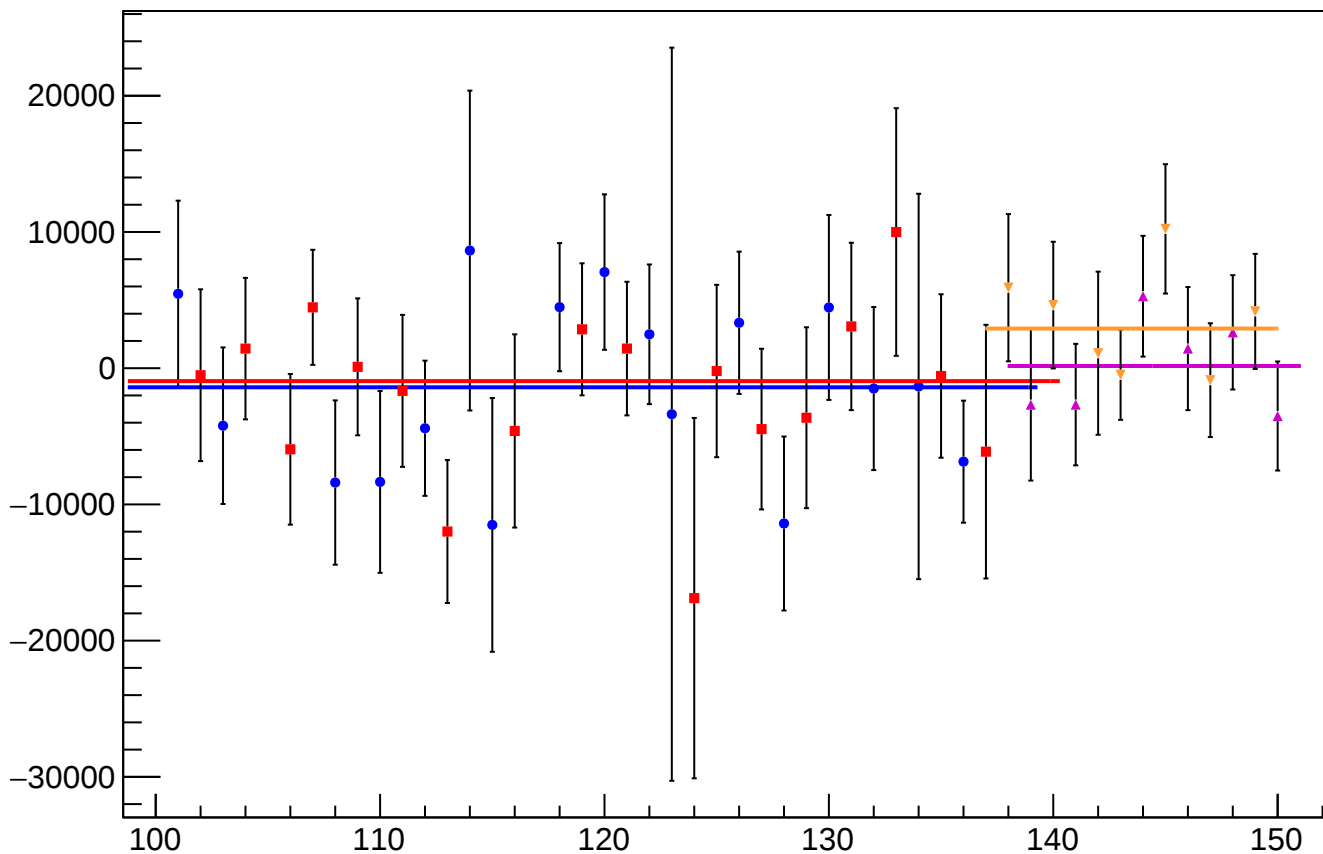
Right: 3014.176 $\pm$ 0.609  $\chi^2$ /NDF: 2898733.2/34

In: 3629.007 $\pm$ 0.760  $\chi^2$ /NDF: 467811.6/22

Out: 2799.056 $\pm$ 0.611  $\chi^2$ /NDF: 3114562.2/24

All: 3125.280 $\pm$ 0.476  $\chi^2$ /NDF: 4307121.8/47

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: 2911.223 $\pm$ 1672.761  $\chi^2$ /NDF:4.9/6

Right Out: -947.960 $\pm$ 1382.709  $\chi^2$ /NDF: 12.5/17

Left In: 163.594 $\pm$ 1821.246  $\chi^2$ /NDF:3.3/5

Left: 1653.963 $\pm$ 1231.975  $\chi^2$ /NDF: 9.4/12

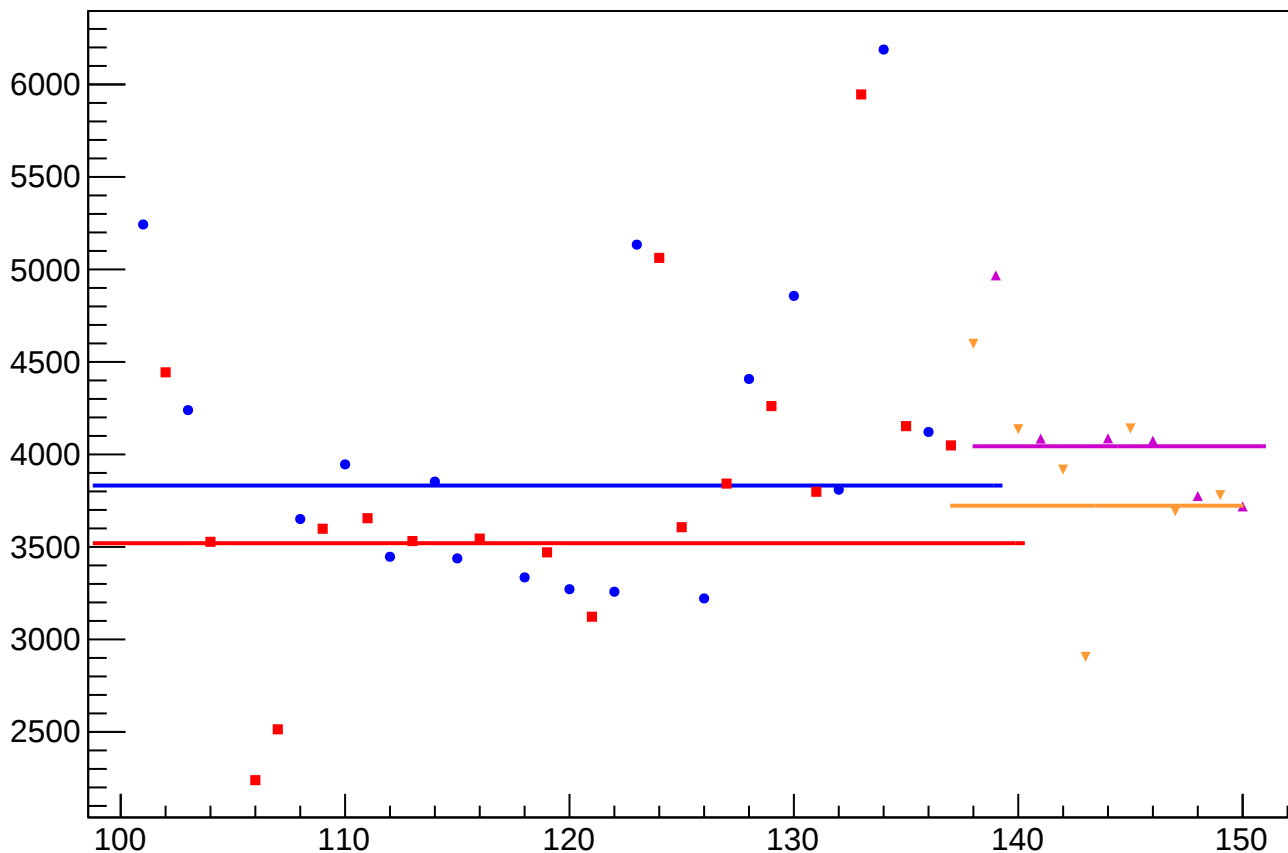
Right: -1155.658 $\pm$ 1017.952  $\chi^2$ /NDF: 28.3/34

In: -766.815 $\pm$ 1159.754  $\chi^2$ /NDF:19.5/22

Out: 618.556 $\pm$ 1065.746  $\chi^2$ /NDF:20.5/24

All: -15.714 $\pm$ 784.729  $\chi^2$ /NDF: 40.8/47

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



Right In: 3831.818 $\pm$ 1.064  $\chi^2$ /NDF: 337707.1/16

Left Out: 3722.780 $\pm$ 1.183  $\chi^2$ /NDF:208138.9/6

Right Out: 3520.188 $\pm$ 0.969  $\chi^2$ /NDF: 544143.8/17

Left In: 4044.072 $\pm$ 1.288  $\chi^2$ /NDF:76828.7/5

Left: 3869.797 $\pm$ 0.871  $\chi^2$ /NDF: 318729.7/12

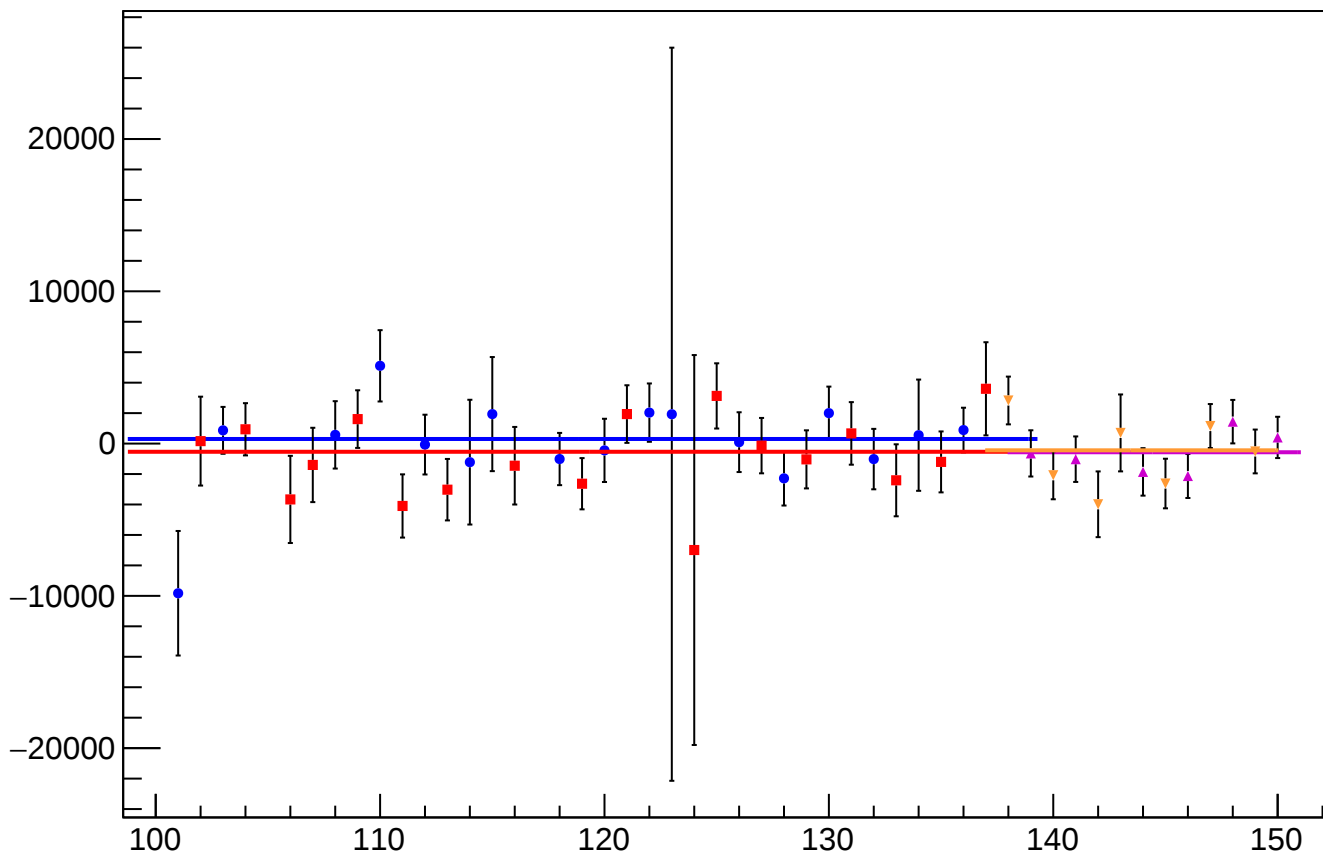
Right: 3661.502 $\pm$ 0.716  $\chi^2$ /NDF: 928771.8/34

In: 3917.885 $\pm$ 0.820  $\chi^2$ /NDF:430685.4/22

Out: 3601.529 $\pm$ 0.749  $\chi^2$ /NDF:769840.5/24

All: 3745.511 $\pm$ 0.553  $\chi^2$ /NDF: 1281615.0/47

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



Right In: 301.968 $\pm$ 512.834  $\chi^2$ /NDF: 16.1/16

Left Out: -443.015 $\pm$ 629.834  $\chi^2$ /NDF:11.4/6

Right Out: -537.727 $\pm$ 508.684  $\chi^2$ /NDF: 17.5/17

Left In: -569.151 $\pm$ 596.725  $\chi^2$ /NDF:4.4/5

Left: -509.485 $\pm$ 433.181  $\chi^2$ /NDF: 15.8/12

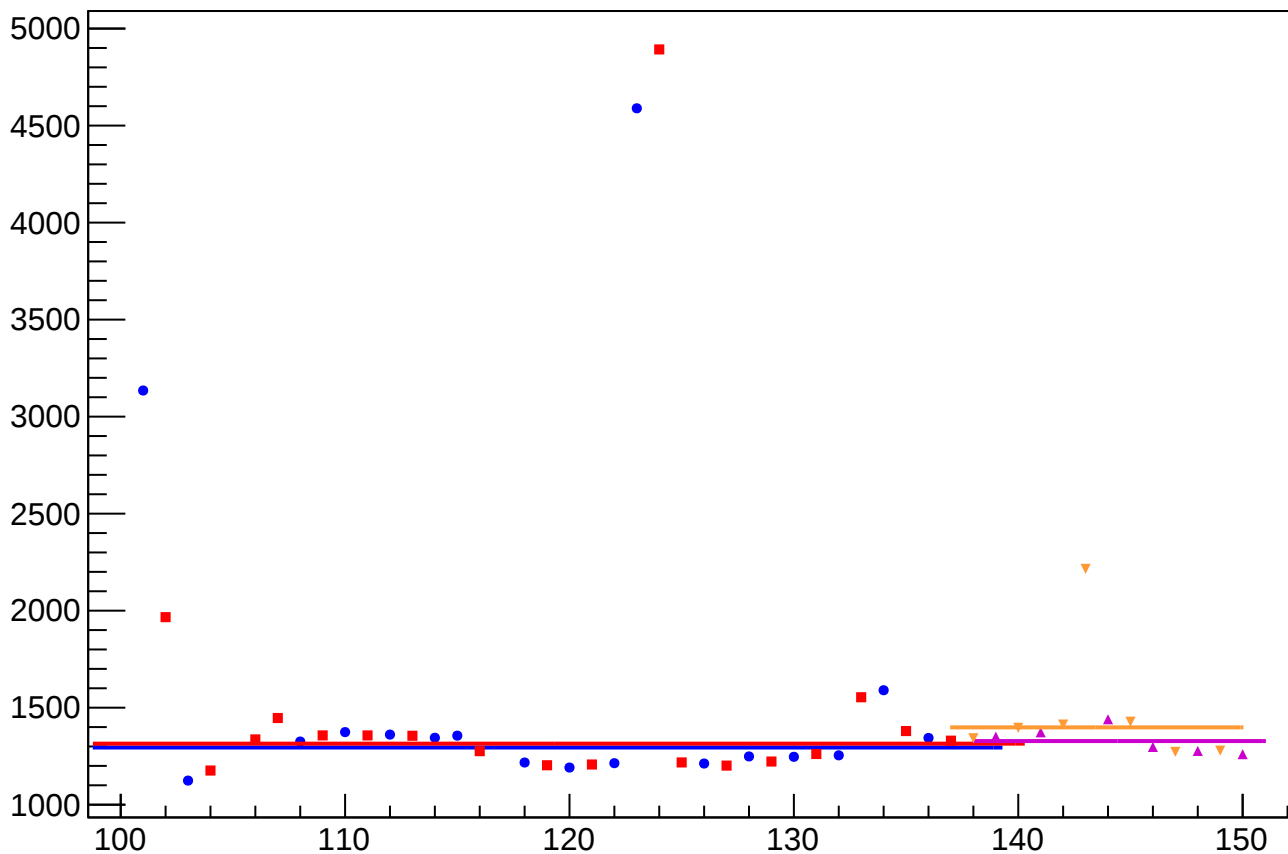
Right: -121.291 $\pm$ 361.152  $\chi^2$ /NDF: 34.9/34

In: -68.103 $\pm$ 388.936  $\chi^2$ /NDF:21.7/22

Out: -500.337 $\pm$ 395.735  $\chi^2$ /NDF:28.8/24

All: -280.475 $\pm$ 277.392  $\chi^2$ /NDF: 51.2/47

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



Right In: 1294.729+/-0.363  $\chi^2/\text{NDF}$ : 507803.9/16

Left Out: 1398.494+/-0.445  $\chi^2/\text{NDF}$ : 241593.9/6

Right Out: 1314.588+/-0.360  $\chi^2/\text{NDF}$ : 333838.6/17

Left In: 1327.934+/-0.422  $\chi^2/\text{NDF}$ : 21061.7/5

Left: 1361.311+/-0.306  $\chi^2/\text{NDF}$ : 275883.5/12

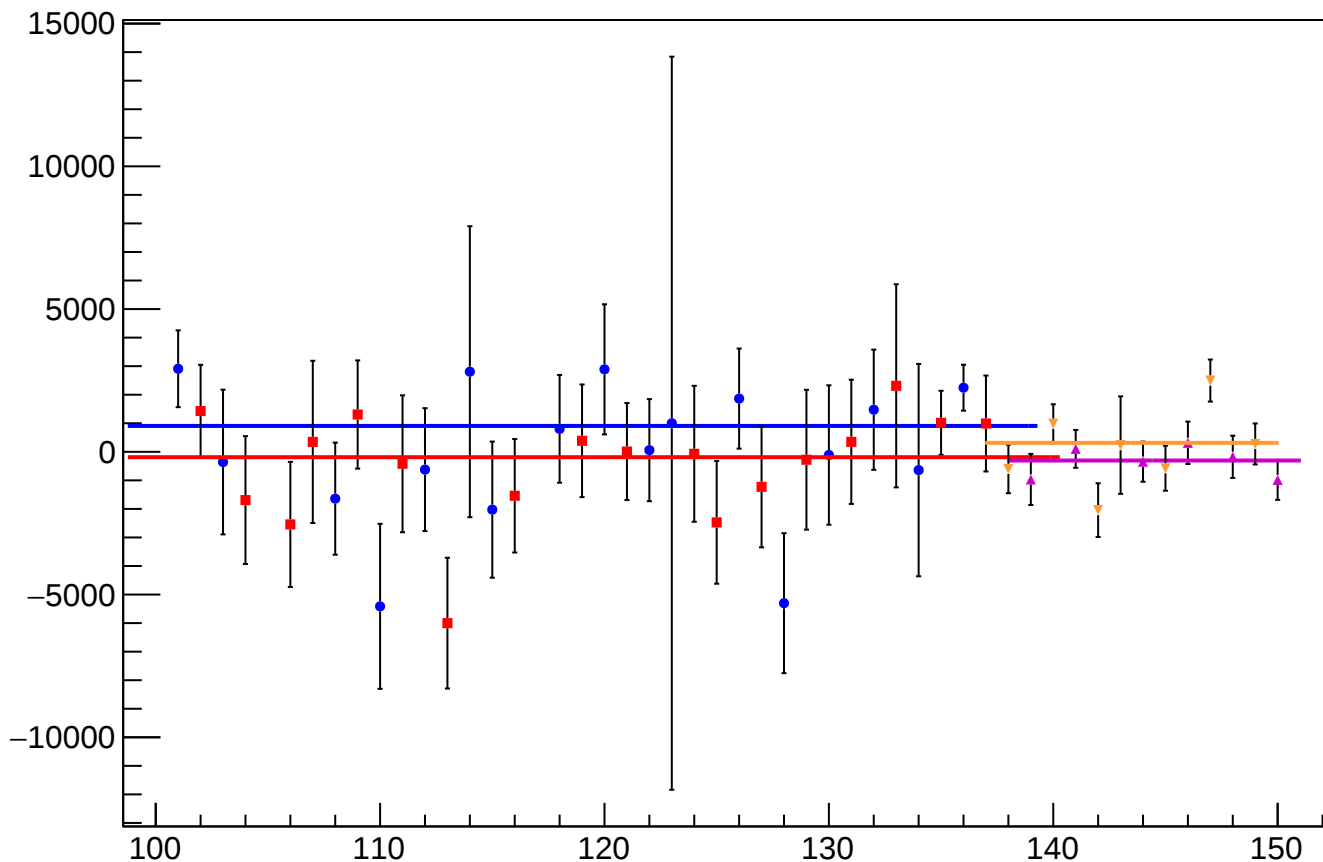
Right: 1304.740+/-0.255  $\chi^2/\text{NDF}$ : 843154.3/34

In: 1308.835+/-0.275  $\chi^2/\text{NDF}$ : 532427.5/22

Out: 1347.713+/-0.280  $\chi^2/\text{NDF}$ : 596914.7/24

All: 1327.937+/-0.196  $\chi^2/\text{NDF}$ : 1139160.8/47

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



Right In: 906.688 $\pm$ 455.840  $\chi^2$ /NDF: 22.0/16

Left Out: 313.588 $\pm$ 310.037  $\chi^2$ /NDF:18.5/6

Right Out: -188.170 $\pm$ 464.537  $\chi^2$ /NDF: 13.8/17

Left In: -304.807 $\pm$ 298.483  $\chi^2$ /NDF:2.6/5

Left: -7.347 $\pm$ 215.028  $\chi^2$ /NDF: 23.1/12

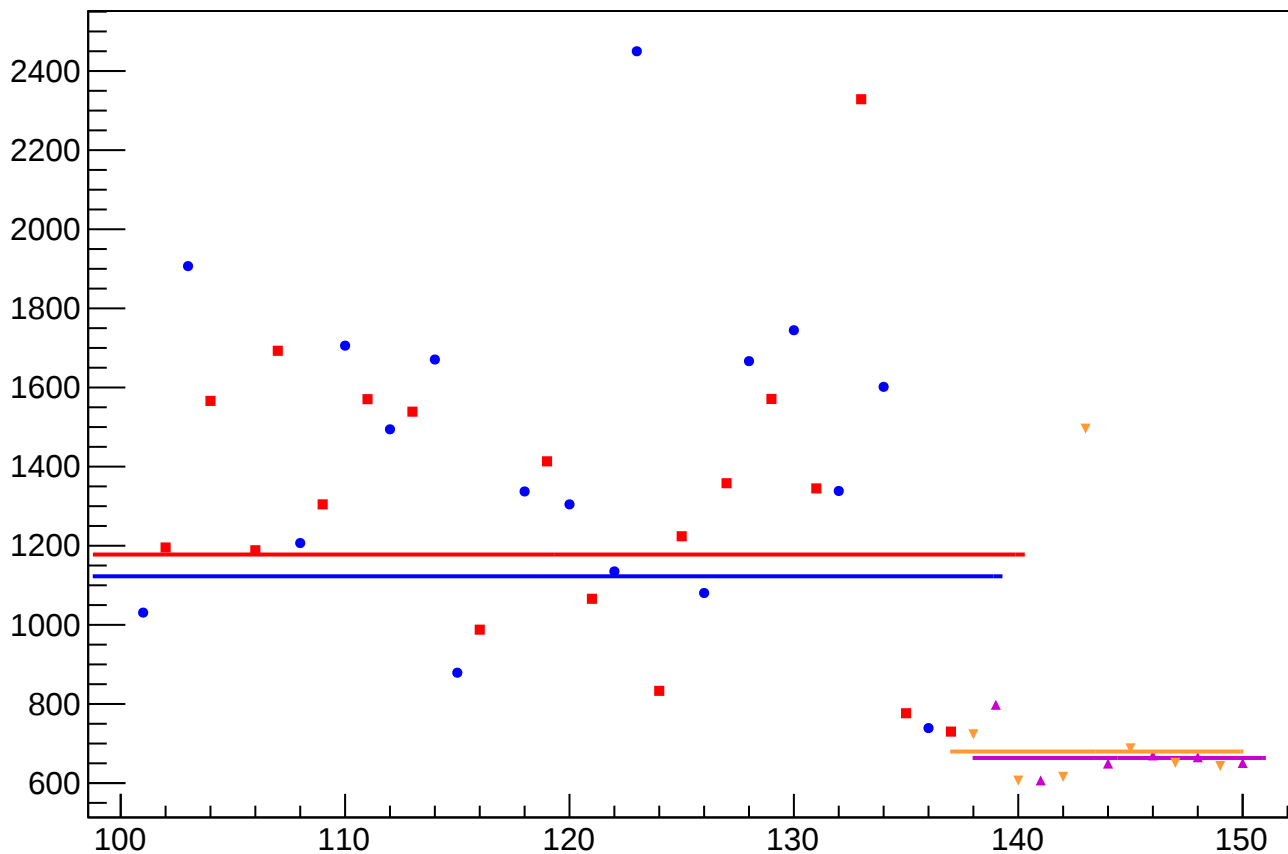
Right: 369.604 $\pm$ 325.359  $\chi^2$ /NDF: 38.7/34

In: 58.754 $\pm$ 249.712  $\chi^2$ /NDF:29.5/22

Out: 158.962 $\pm$ 257.878  $\chi^2$ /NDF:33.1/24

All: 107.246 $\pm$ 179.391  $\chi^2$ /NDF: 62.7/47

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: 679.778+/-0.219  $\chi^2/\text{NDF}$ : 503431.2/6

Right Out: 1177.797+/-0.328  $\chi^2/\text{NDF}$ : 1021710.1/17

Left In: 663.526+/-0.211  $\chi^2/\text{NDF}$ : 61360.7/5

Left: 671.343+/-0.152  $\chi^2/\text{NDF}$ : 567643.9/12

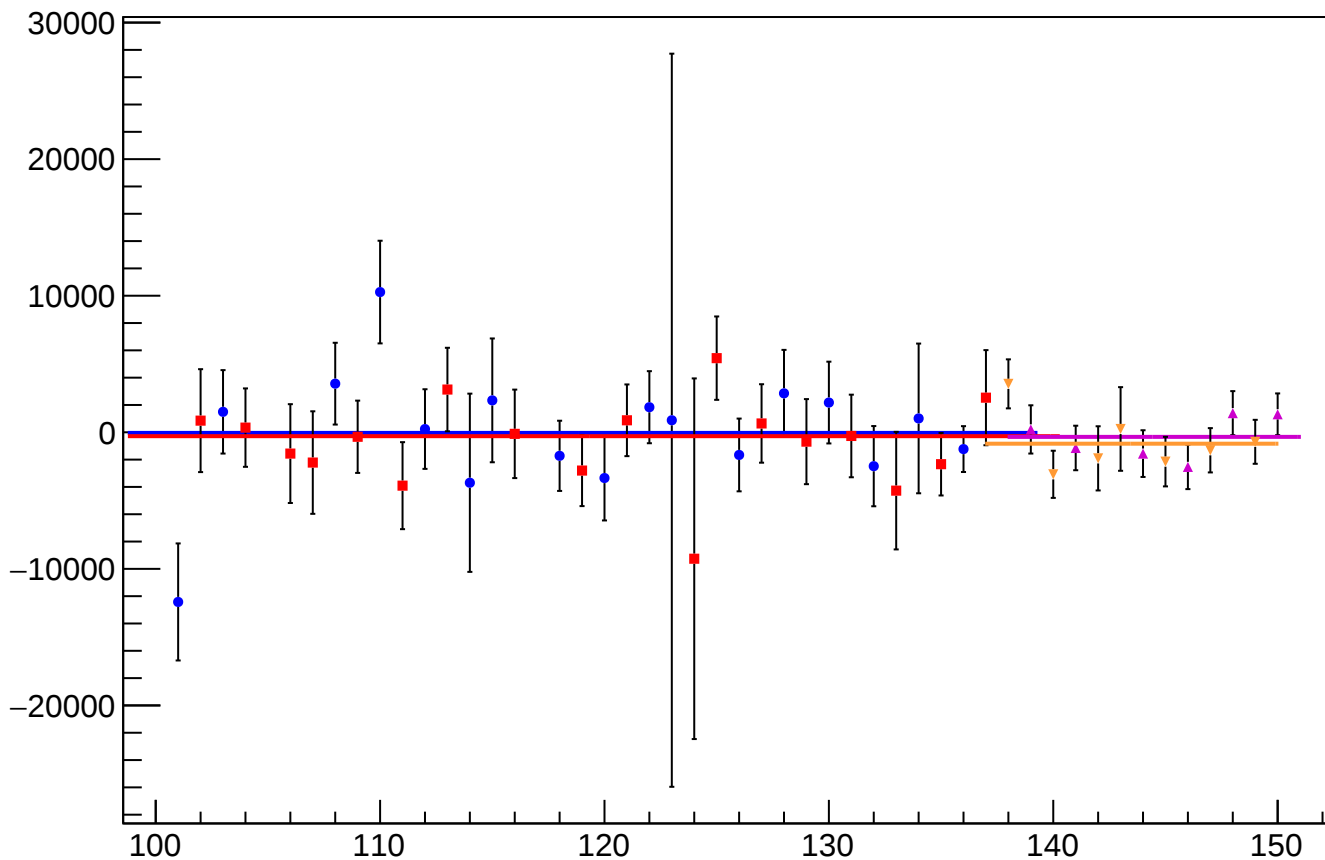
Right: 1149.765+/-0.230  $\chi^2/\text{NDF}$ : 2224002.1/34

In: 801.343+/-0.177  $\chi^2/\text{NDF}$ : 2670174.6/22

Out: 833.252+/-0.182  $\chi^2/\text{NDF}$ : 3115456.5/24

All: 816.784+/-0.127  $\chi^2/\text{NDF}$ : 5801434.1/47

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:  $-835.396 \pm 706.397$   $\chi^2/\text{NDF}$ : 8.6/6

Right Out:  $-285.373 \pm 735.391$   $\chi^2/\text{NDF}$ : 10.6/17

Left In:  $-335.769 \pm 669.631$   $\chi^2/\text{NDF}$ : 5.0/5

Left:  $-572.243 \pm 485.979$   $\chi^2/\text{NDF}$ : 13.9/12

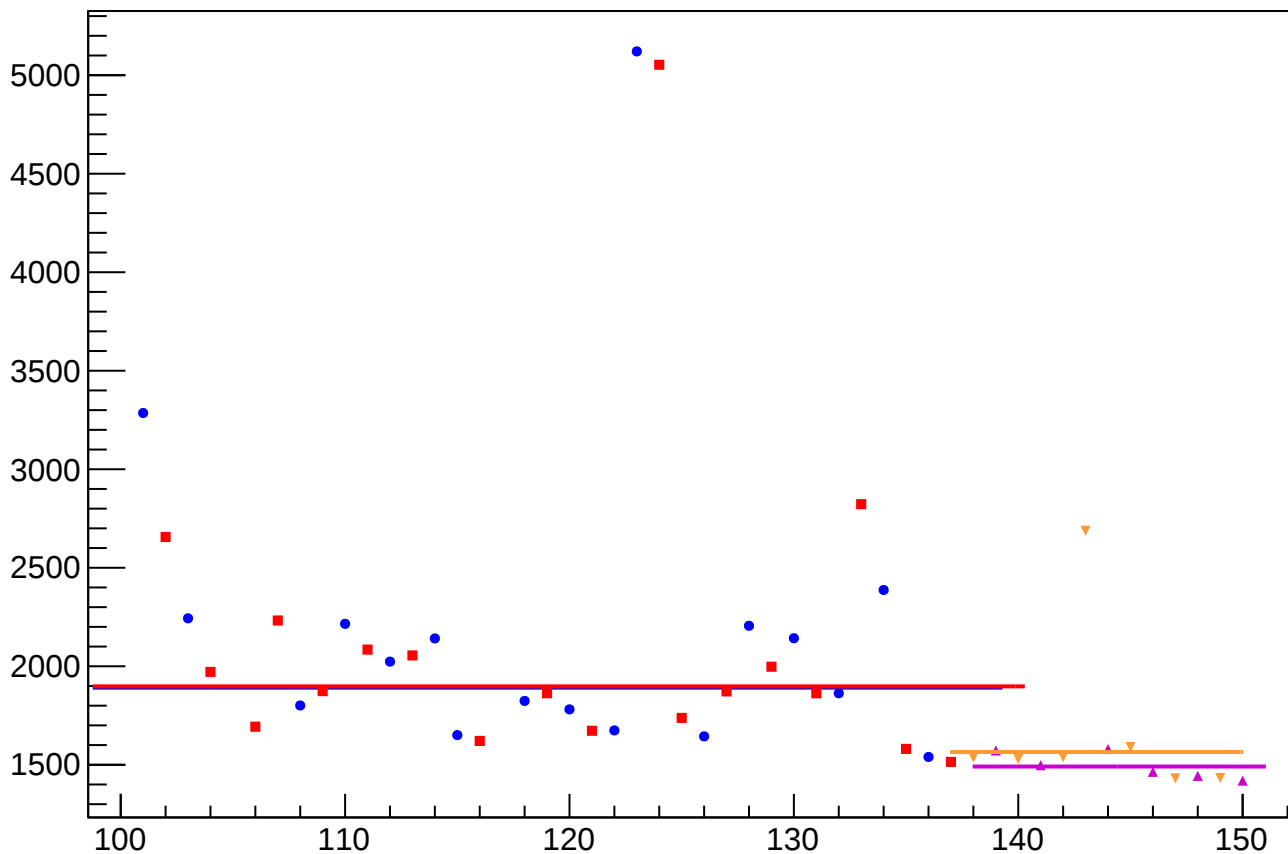
Right:  $-166.852 \pm 524.259$   $\chi^2/\text{NDF}$ : 33.9/34

In:  $-206.049 \pm 498.793$   $\chi^2/\text{NDF}$ : 28.3/22

Out:  $-571.441 \pm 509.440$   $\chi^2/\text{NDF}$ : 19.5/24

All:  $-384.887 \pm 356.404$   $\chi^2/\text{NDF}$ : 48.1/47

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: 1565.025 $\pm$ 0.499  $\chi^2$ /NDF: 297894.9/6

Right Out: 1898.010 $\pm$ 0.520  $\chi^2$ /NDF: 423694.9/17

Left In: 1491.128 $\pm$ 0.474  $\chi^2$ /NDF: 16350.4/5

Left: 1526.103 $\pm$ 0.344  $\chi^2$ /NDF: 325773.2/12

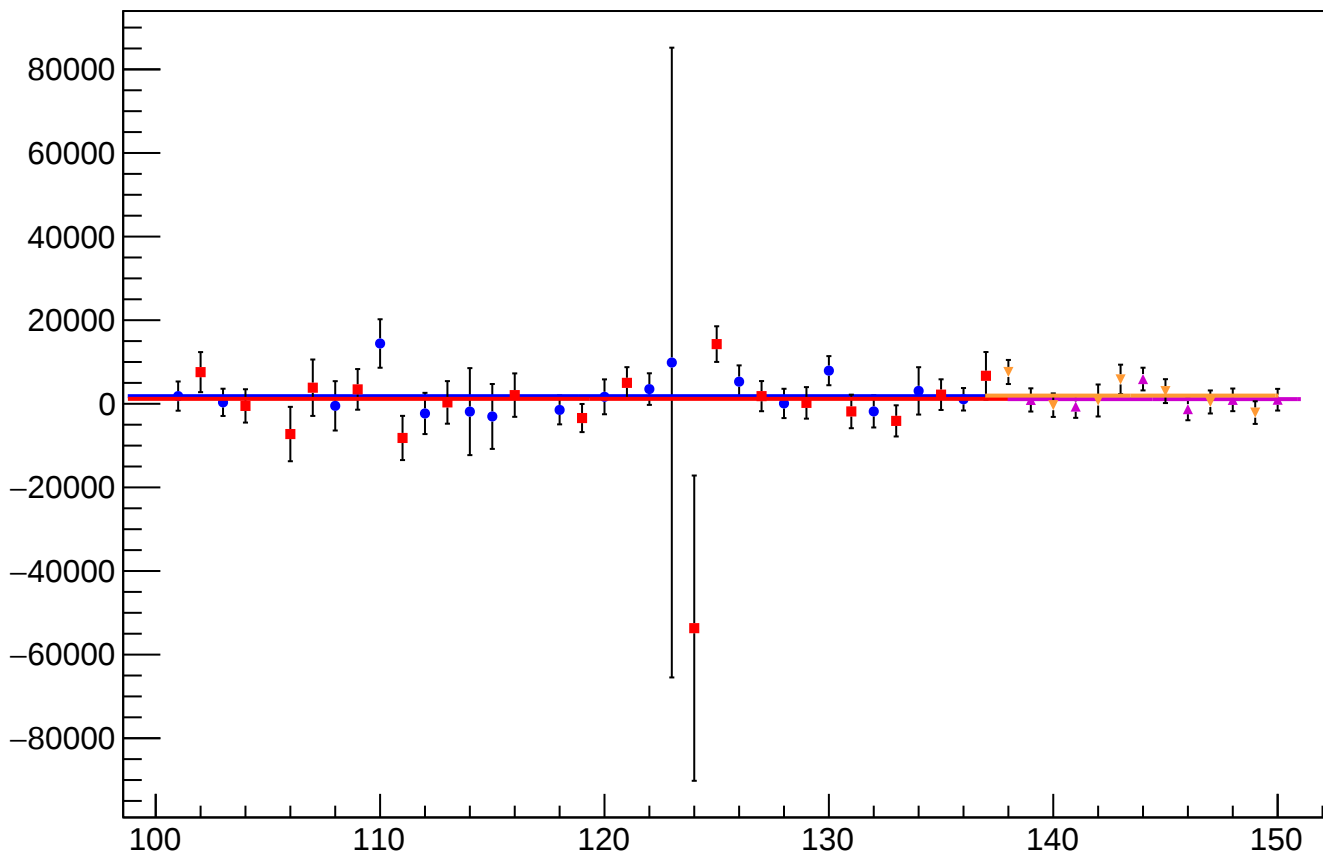
Right: 1894.891 $\pm$ 0.371  $\chi^2$ /NDF: 892856.4/34

In: 1669.433 $\pm$ 0.353  $\chi^2$ /NDF: 803981.9/22

Out: 1724.826 $\pm$ 0.360  $\chi^2$ /NDF: 934863.4/24

All: 1696.545 $\pm$ 0.252  $\chi^2$ /NDF: 1750918.2/47

# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1825.042 $\pm$ 1010.167  $\chi^2$ /NDF: 12.6/16

Left Out: 1960.483 $\pm$ 1127.428  $\chi^2$ /NDF:8.5/6

Right Out: 1182.804 $\pm$ 1049.924  $\chi^2$ /NDF: 25.5/17

Left In: 1118.789 $\pm$ 1098.731  $\chi^2$ /NDF:4.4/5

Left: 1528.788 $\pm$ 786.870  $\chi^2$ /NDF: 13.2/12

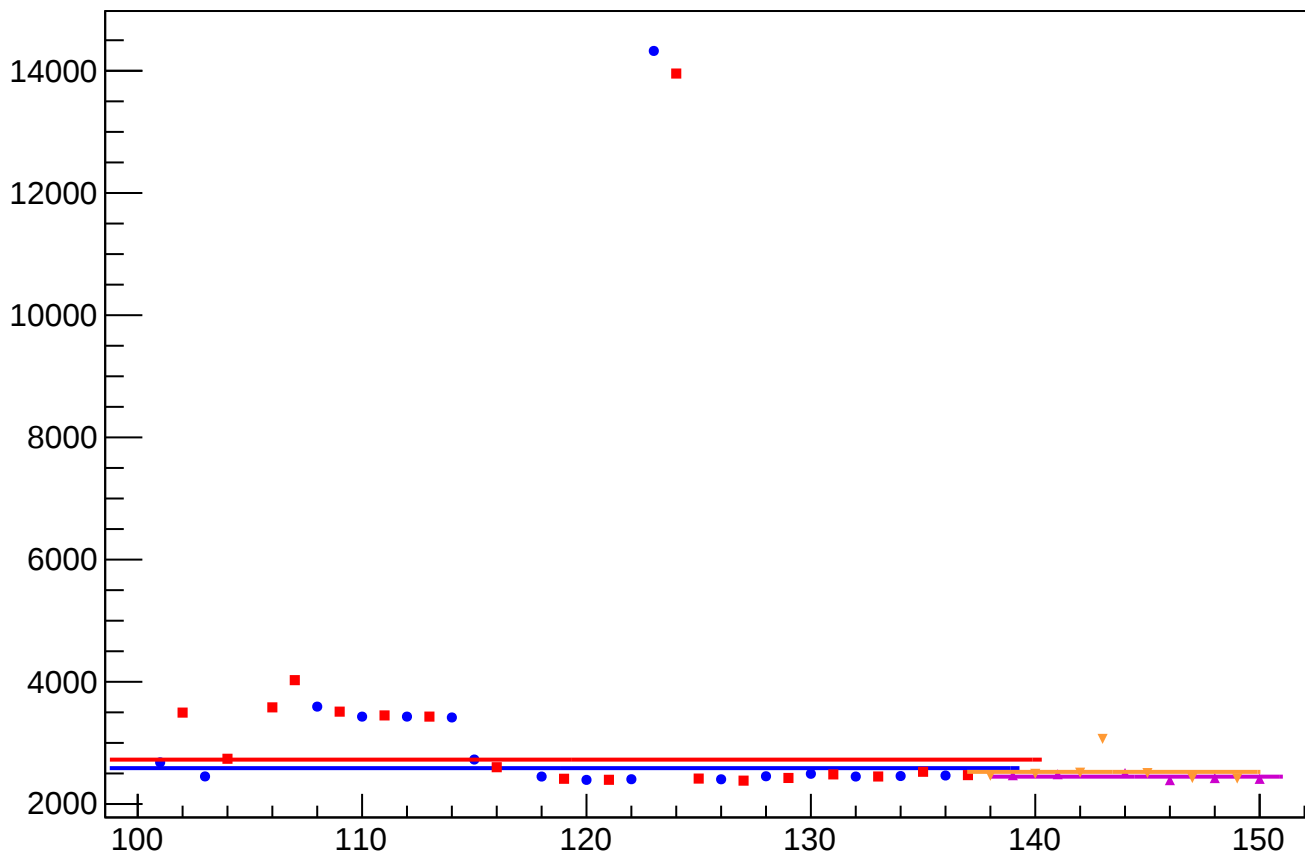
Right: 1516.312 $\pm$ 727.946  $\chi^2$ /NDF: 38.2/34

In: 1501.523 $\pm$ 743.638  $\chi^2$ /NDF:17.2/22

Out: 1543.997 $\pm$ 768.348  $\chi^2$ /NDF:34.2/24

All: 1522.066 $\pm$ 534.354  $\chi^2$ /NDF: 51.4/47

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2586.978+/-0.714  $\chi^2/\text{NDF}$ : 254112.7/16

Left Out: 2526.152+/-0.797  $\chi^2/\text{NDF}$ : 54303.2/6

Right Out: 2726.457+/-0.742  $\chi^2/\text{NDF}$ : 580850.1/17

Left In: 2447.719+/-0.777  $\chi^2/\text{NDF}$ : 2991.9/5

Left: 2485.925+/-0.556  $\chi^2/\text{NDF}$ : 62259.6/12

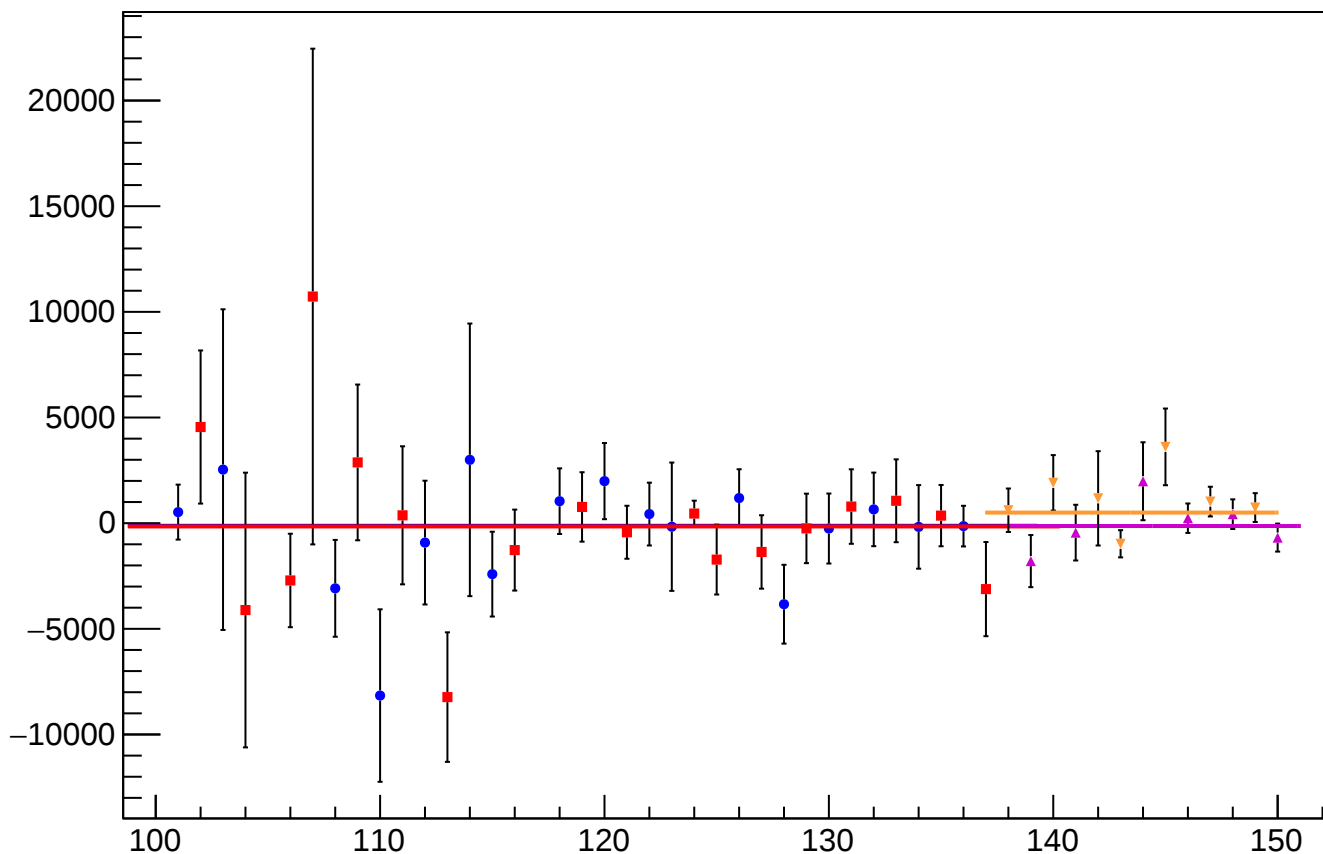
Right: 2654.027+/-0.515  $\chi^2/\text{NDF}$ : 853292.0/34

In: 2523.187+/-0.526  $\chi^2/\text{NDF}$ : 274515.9/22

Out: 2633.425+/-0.543  $\chi^2/\text{NDF}$ : 668962.4/24

All: 2576.505+/-0.378  $\chi^2/\text{NDF}$ : 964736.1/47

# asym\_atl1\_correction\_mean vs Slug, Sign Corrected



Right In: -124.472+/-430.760  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: 501.390+/-340.722  $\chi^2/\text{NDF}$ :10.1/6

Right Out: -154.579+/-380.922  $\chi^2/\text{NDF}$ : 17.6/17

Left In: -134.742+/-355.753  $\chi^2/\text{NDF}$ :4.8/5

Left: 197.046+/-246.069  $\chi^2/\text{NDF}$ : 16.6/12

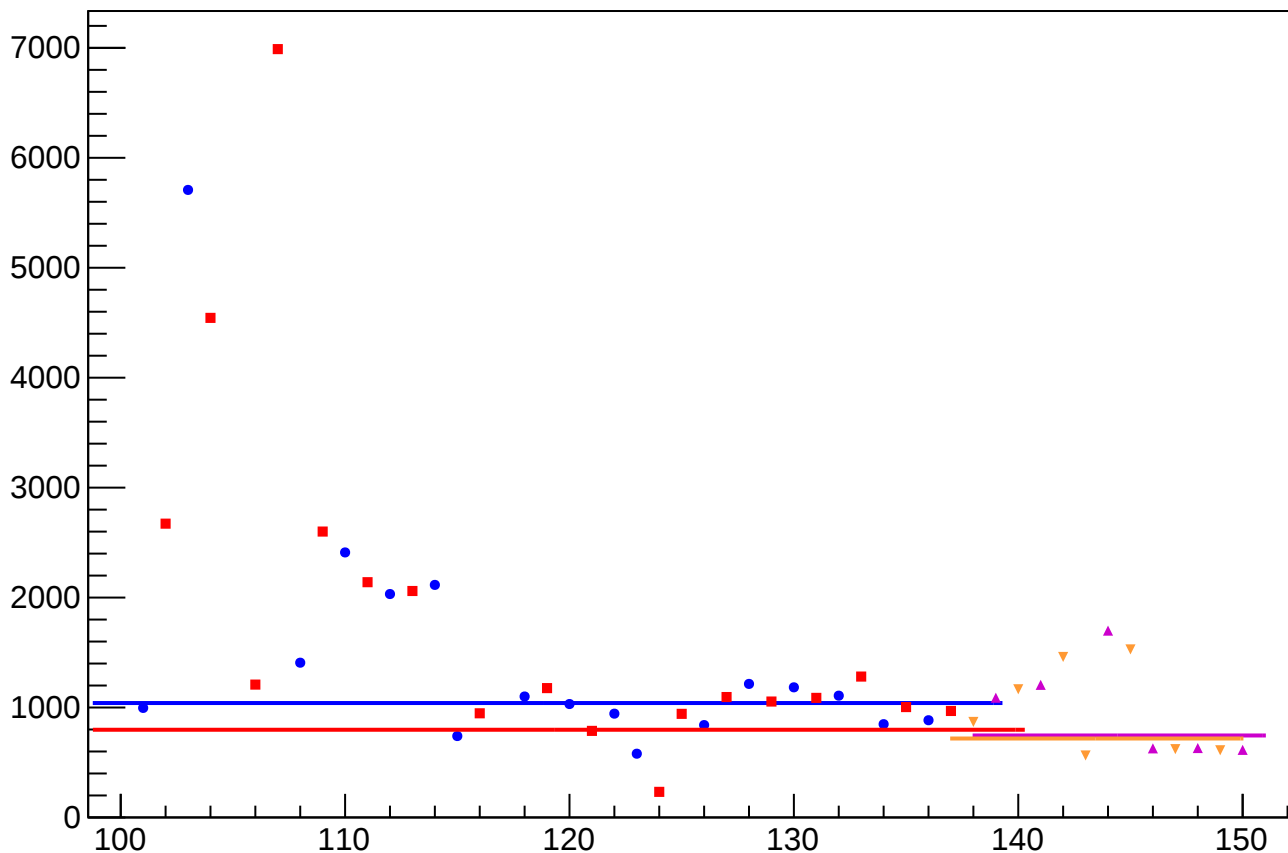
Right: -141.367+/-285.354  $\chi^2/\text{NDF}$ : 32.3/34

In: -130.578+/-274.301  $\chi^2/\text{NDF}$ :19.5/22

Out: 209.834+/-253.954  $\chi^2/\text{NDF}$ :29.3/24

All: 52.720+/-186.351  $\chi^2/\text{NDF}$ : 49.6/47

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



Right In: 1040.760+/-0.305  $\chi^2/\text{NDF}$ : 1573034.8/16

Left Out: 718.063+/-0.241  $\chi^2/\text{NDF}$ : 1097883.9/6

Right Out: 797.732+/-0.269  $\chi^2/\text{NDF}$ : 5174332.0/17

Left In: 745.635+/-0.252  $\chi^2/\text{NDF}$ : 1122061.0/5

Left: 731.254+/-0.174  $\chi^2/\text{NDF}$ : 2226210.9/12

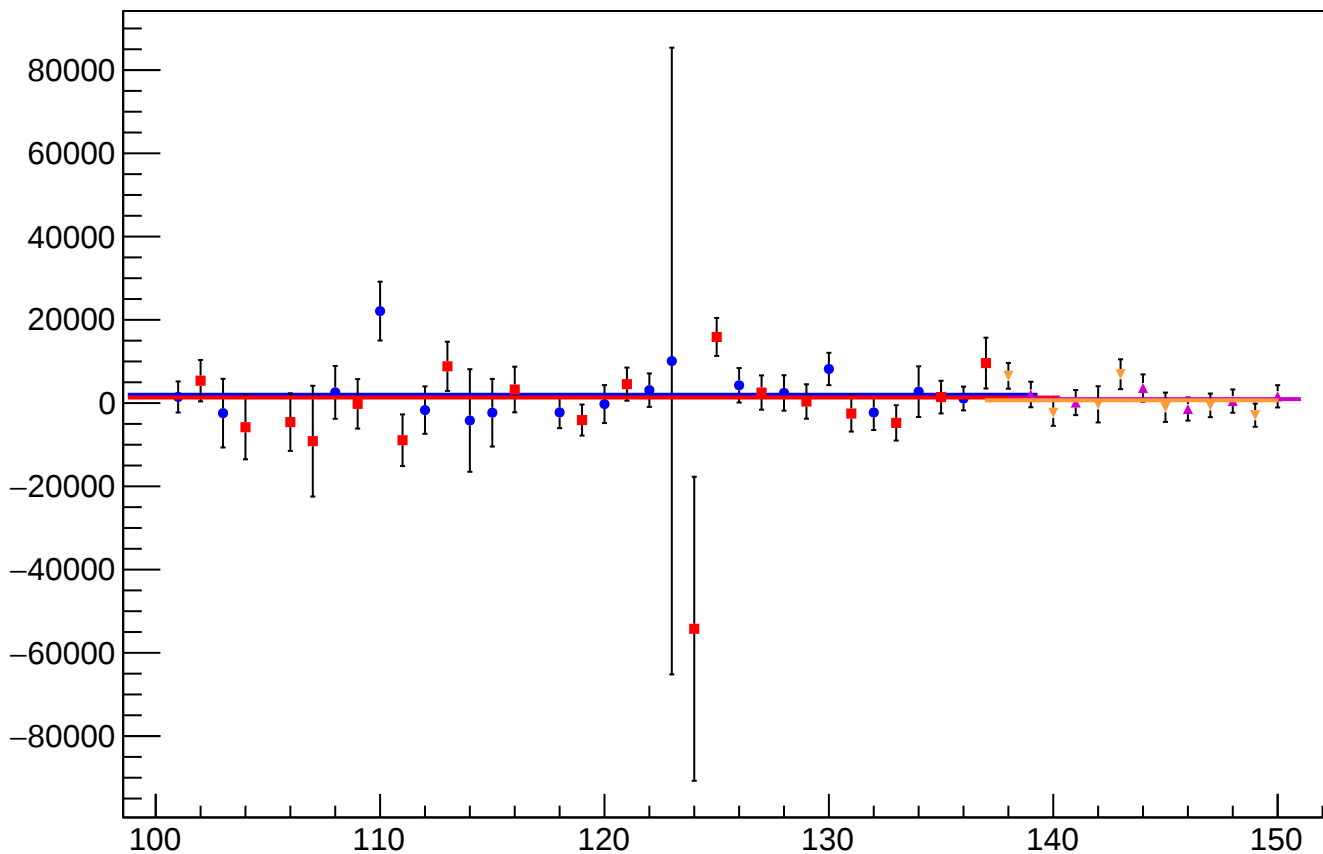
Right: 904.380+/-0.202  $\chi^2/\text{NDF}$ : 7104613.1/34

In: 865.306+/-0.194  $\chi^2/\text{NDF}$ : 3253217.5/22

Out: 753.473+/-0.180  $\chi^2/\text{NDF}$ : 6320816.9/24

All: 805.088+/-0.132  $\chi^2/\text{NDF}$ : 9753040.8/47

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1996.263+/-1155.054  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 670.458+/-1222.015  $\chi^2/\text{NDF}$ : 9.7/6

Right Out: 1336.627+/-1193.730  $\chi^2/\text{NDF}$ : 27.5/17

Left In: 954.486+/-1190.190  $\chi^2/\text{NDF}$ : 1.7/5

Left: 816.219+/-852.621  $\chi^2/\text{NDF}$ : 11.4/12

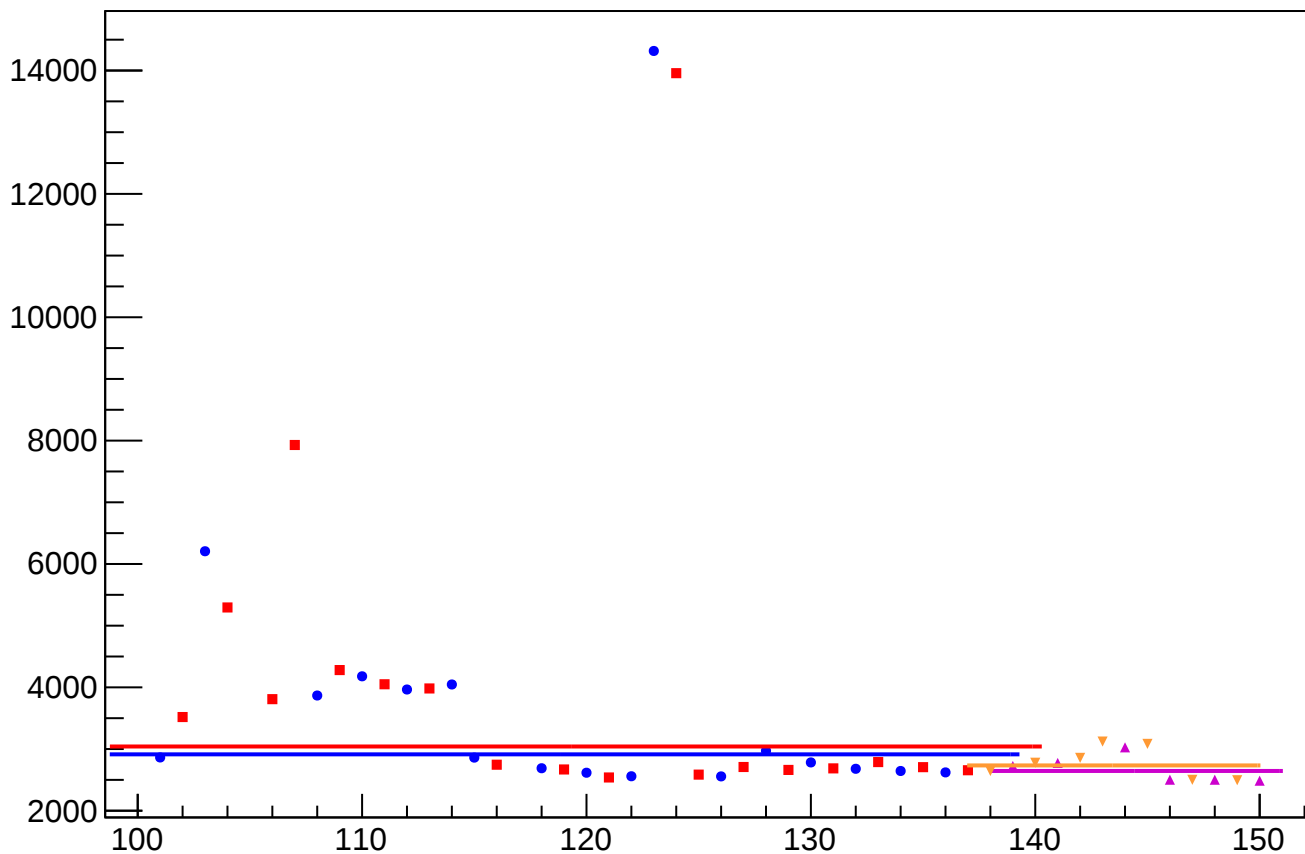
Right: 1677.304+/-830.083  $\chi^2/\text{NDF}$ : 42.6/34

In: 1490.979+/-828.890  $\chi^2/\text{NDF}$ : 17.0/22

Out: 1011.342+/-853.919  $\chi^2/\text{NDF}$ : 37.3/24

All: 1258.292+/-594.765  $\chi^2/\text{NDF}$ : 54.5/47

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2913.875+/-0.817  $\chi^2/\text{NDF}$ : 638984.6/16

Left Out: 2734.280+/-0.864  $\chi^2/\text{NDF}$ : 74899.9/6

Right Out: 3041.227+/-0.844  $\chi^2/\text{NDF}$ : 1003583.4/17

Left In: 2644.466+/-0.842  $\chi^2/\text{NDF}$ : 49632.5/5

Left: 2688.188+/-0.603  $\chi^2/\text{NDF}$ : 130076.7/12

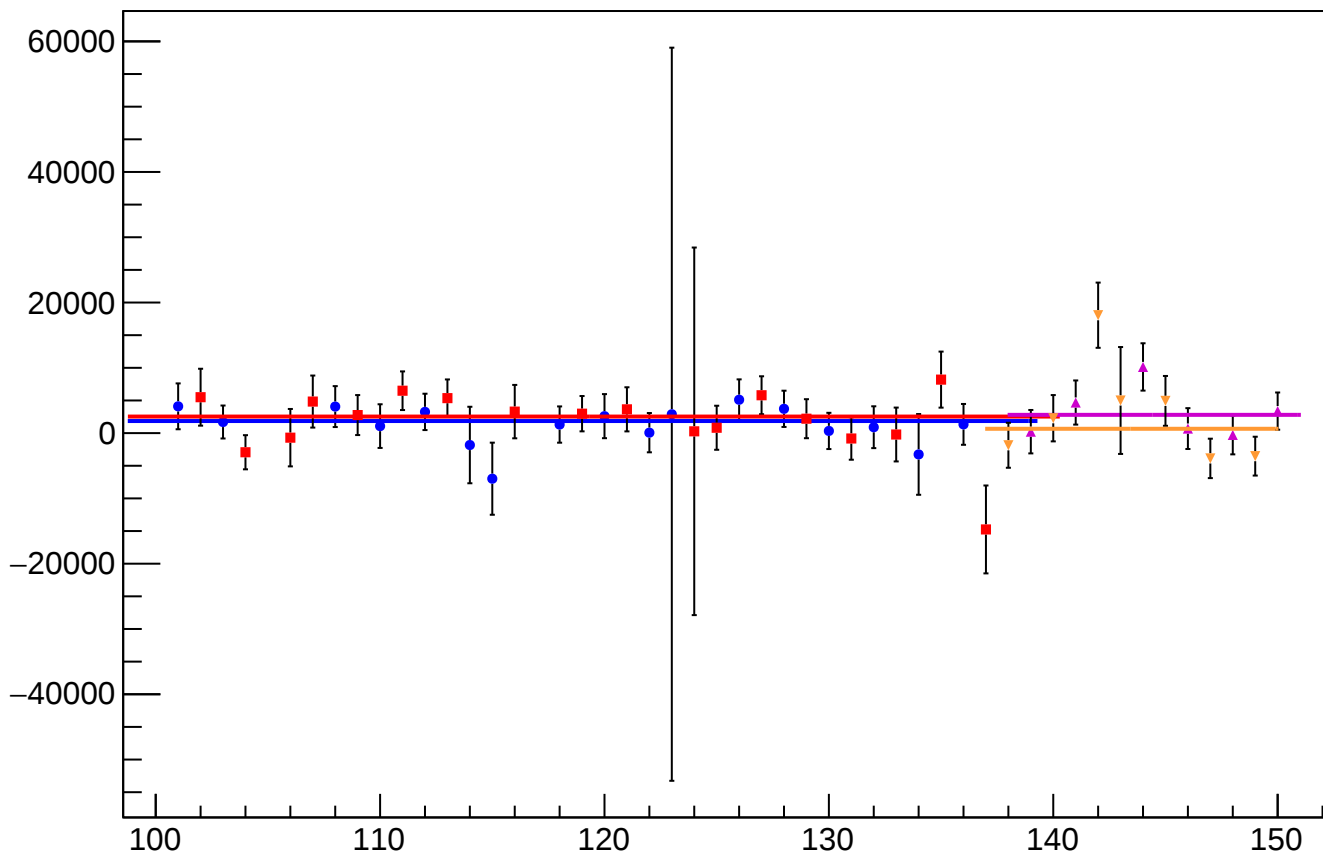
Right: 2975.455+/-0.587  $\chi^2/\text{NDF}$ : 1654324.2/34

In: 2783.206+/-0.586  $\chi^2/\text{NDF}$ : 741390.2/22

Out: 2891.347+/-0.604  $\chi^2/\text{NDF}$ : 1143052.5/24

All: 2835.669+/-0.421  $\chi^2/\text{NDF}$ : 1900957.7/47

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 1850.093 $\pm$ 806.760  $\chi^2/\text{NDF}$ : 7.3/16

Left Out: 663.320 $\pm$ 1399.981  $\chi^2/\text{NDF}$ : 18.7/6

Right Out: 2535.163 $\pm$ 819.322  $\chi^2/\text{NDF}$ : 20.0/17

Left In: 2797.273 $\pm$ 1299.576  $\chi^2/\text{NDF}$ : 6.6/5

Left: 1809.556 $\pm$ 952.459  $\chi^2/\text{NDF}$ : 26.5/12

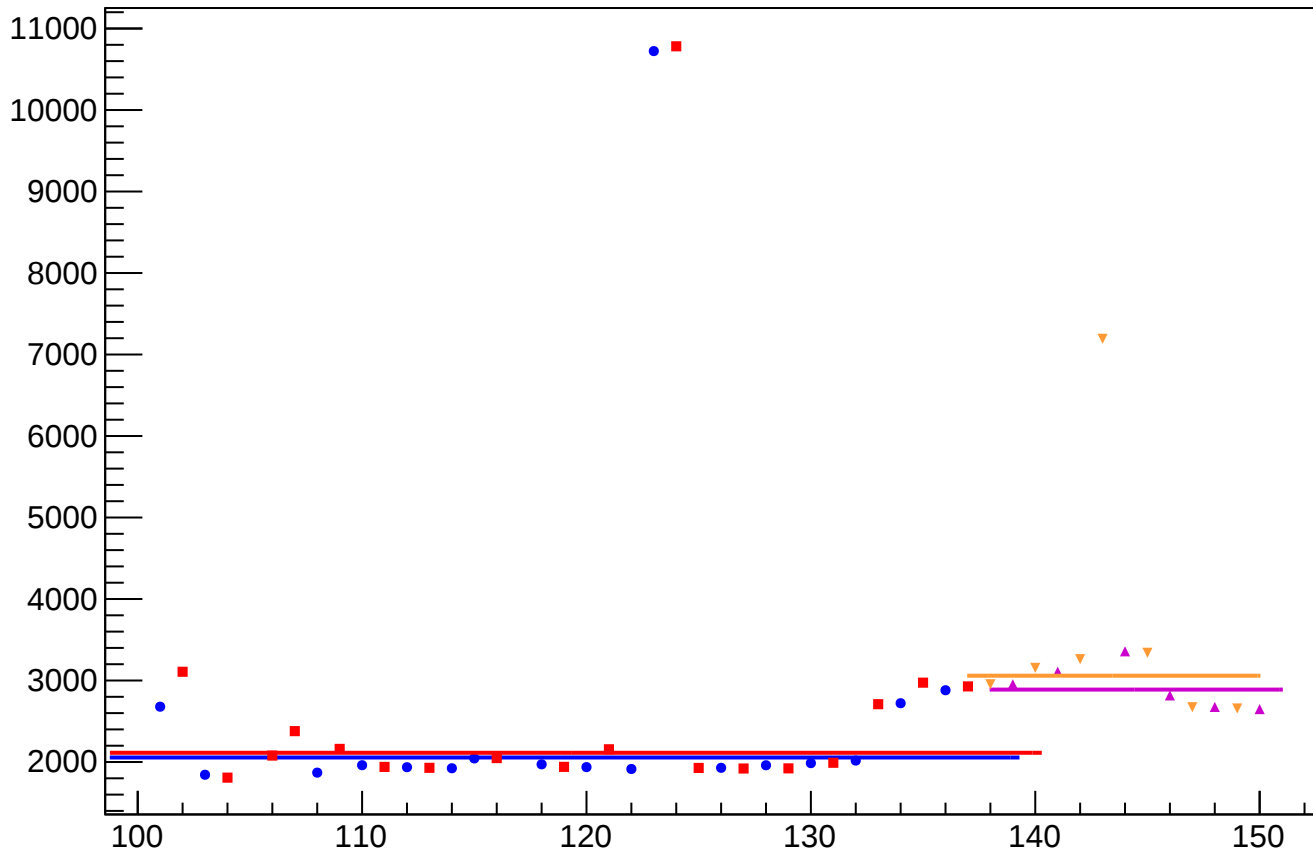
Right: 2187.336 $\pm$ 574.855  $\chi^2/\text{NDF}$ : 27.6/34

In: 2113.574 $\pm$ 685.425  $\chi^2/\text{NDF}$ : 14.2/22

Out: 2057.613 $\pm$ 707.126  $\chi^2/\text{NDF}$ : 40.0/24

All: 2086.466 $\pm$ 492.162  $\chi^2/\text{NDF}$ : 54.2/47

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In:  $2055.447 \pm 0.570$   $\chi^2/\text{NDF}$ : 316383.7/16

Left Out:  $3059.132 \pm 0.990$   $\chi^2/\text{NDF}$ : 596799.5/6

Right Out:  $2113.304 \pm 0.578$   $\chi^2/\text{NDF}$ : 532006.4/17

Left In:  $2888.560 \pm 0.919$   $\chi^2/\text{NDF}$ : 68077.1/5

Left:  $2967.510 \pm 0.673$   $\chi^2/\text{NDF}$ : 680824.0/12

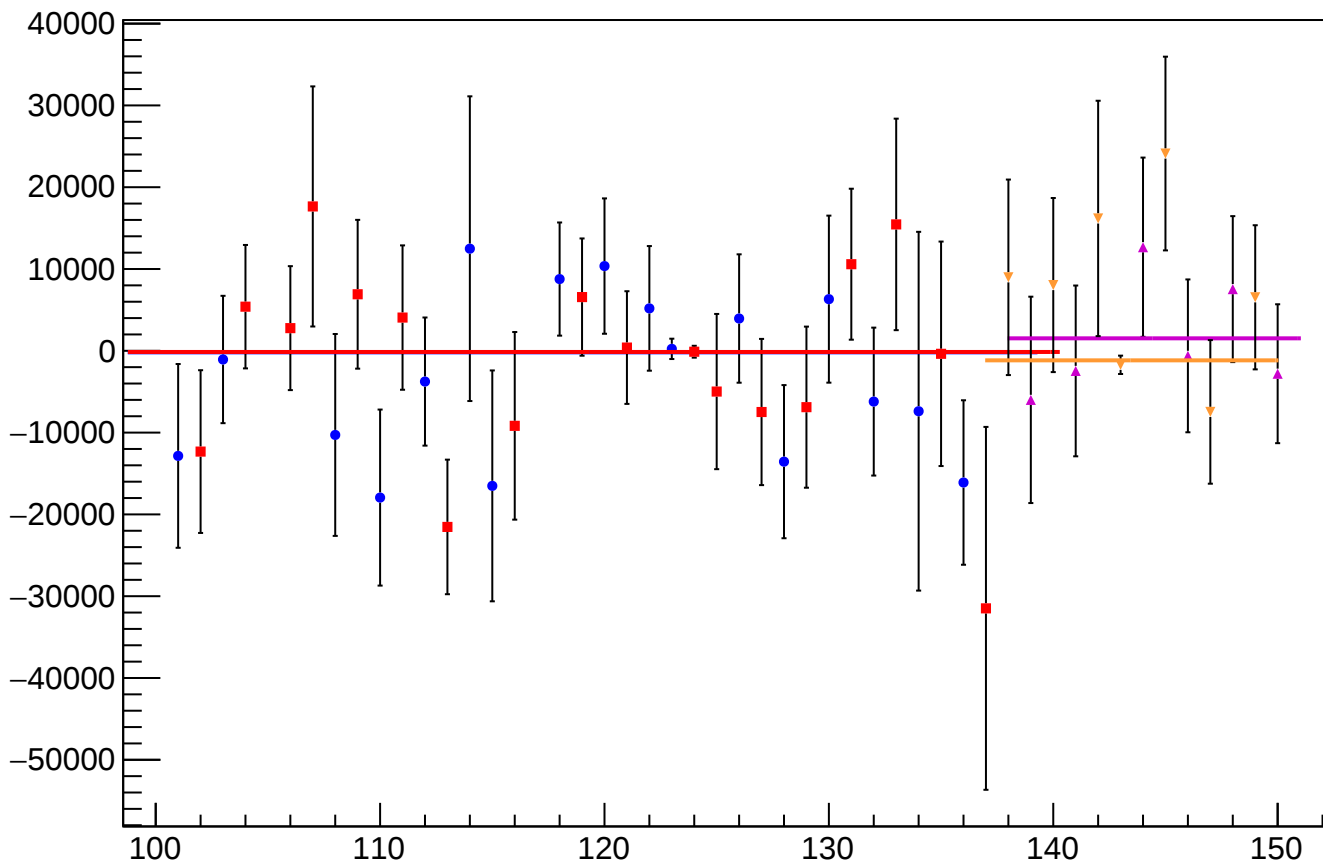
Right:  $2083.972 \pm 0.406$   $\chi^2/\text{NDF}$ : 853461.4/34

In:  $2287.197 \pm 0.485$   $\chi^2/\text{NDF}$ : 977750.8/22

Out:  $2354.067 \pm 0.499$   $\chi^2/\text{NDF}$ : 1809303.9/24

All:  $2319.628 \pm 0.348$   $\chi^2/\text{NDF}$ : 2796286.5/47

asym\_atl2\_correction\_mean vs Slug, Sign Corrected



Right In: -185.246 $\pm$ 1100.780  $\chi^2$ /NDF: 16.4/16

Left Out: -1166.502 $\pm$ 1086.172  $\chi^2$ /NDF:9.0/6

Right Out: -141.935 $\pm$ 690.979  $\chi^2$ /NDF: 19.0/17

Left In: 1524.786 $\pm$ 4026.497  $\chi^2$ /NDF:2.3/5

Left: -983.945 $\pm$ 1048.687  $\chi^2$ /NDF: 11.7/12

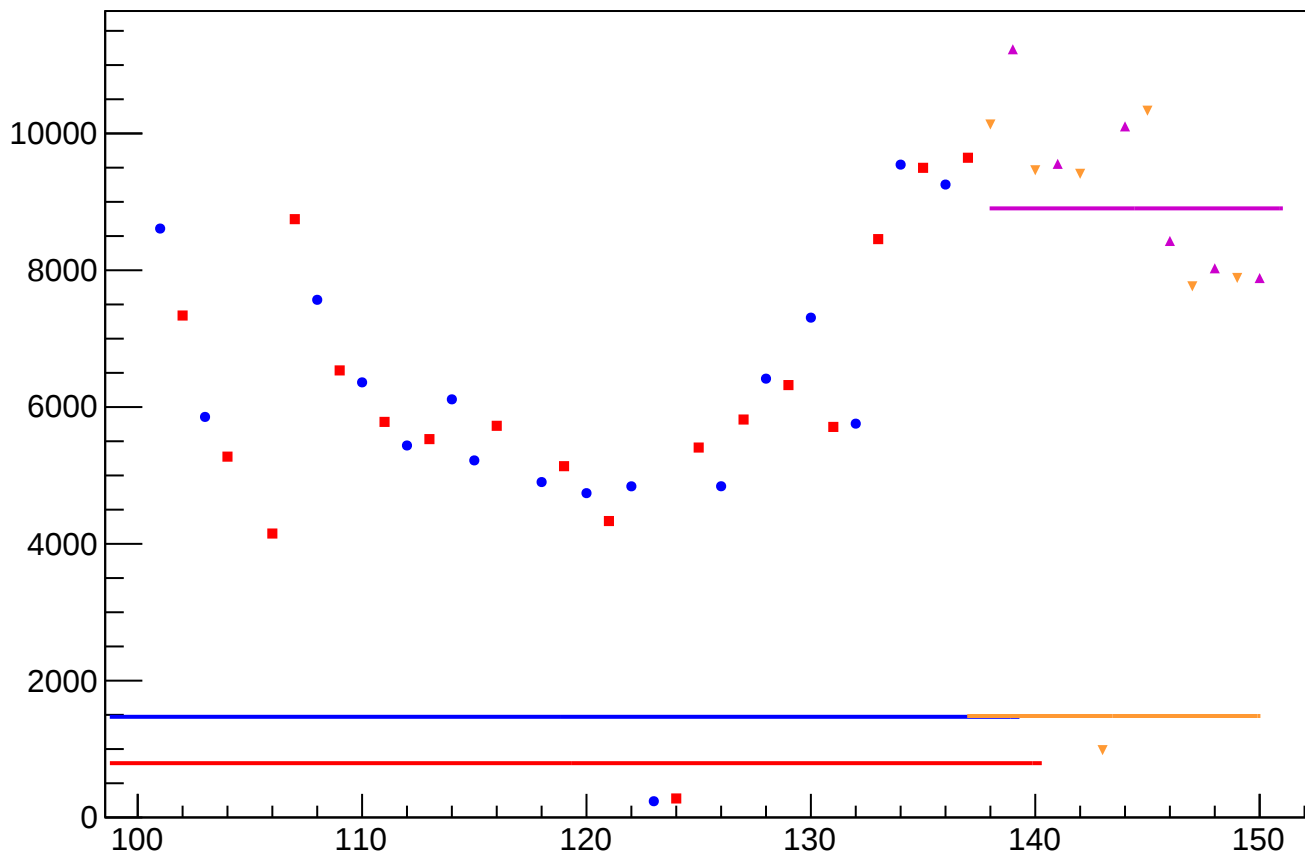
Right: -154.177 $\pm$ 585.233  $\chi^2$ /NDF: 35.3/34

In: -66.328 $\pm$ 1061.815  $\chi^2$ /NDF:18.9/22

Out: -437.117 $\pm$ 583.006  $\chi^2$ /NDF:28.6/24

All: -351.227 $\pm$ 511.041  $\chi^2$ /NDF: 47.5/47

# asym\_atl2\_correction\_rms vs Slug, Sign Corrected



Right In: 1471.609+/-0.778  $\chi^2/\text{NDF}$ : 9788255.4/16

Left Out: 1483.293+/-0.768  $\chi^2/\text{NDF}$ : 6372471.9/6

Right Out: 793.659+/-0.489  $\chi^2/\text{NDF}$ : 11422584.5/17

Left In: 8904.648+/-2.847  $\chi^2/\text{NDF}$ : 153005.7/5

Left: 1986.701+/-0.742  $\chi^2/\text{NDF}$ : 12858860.2/12

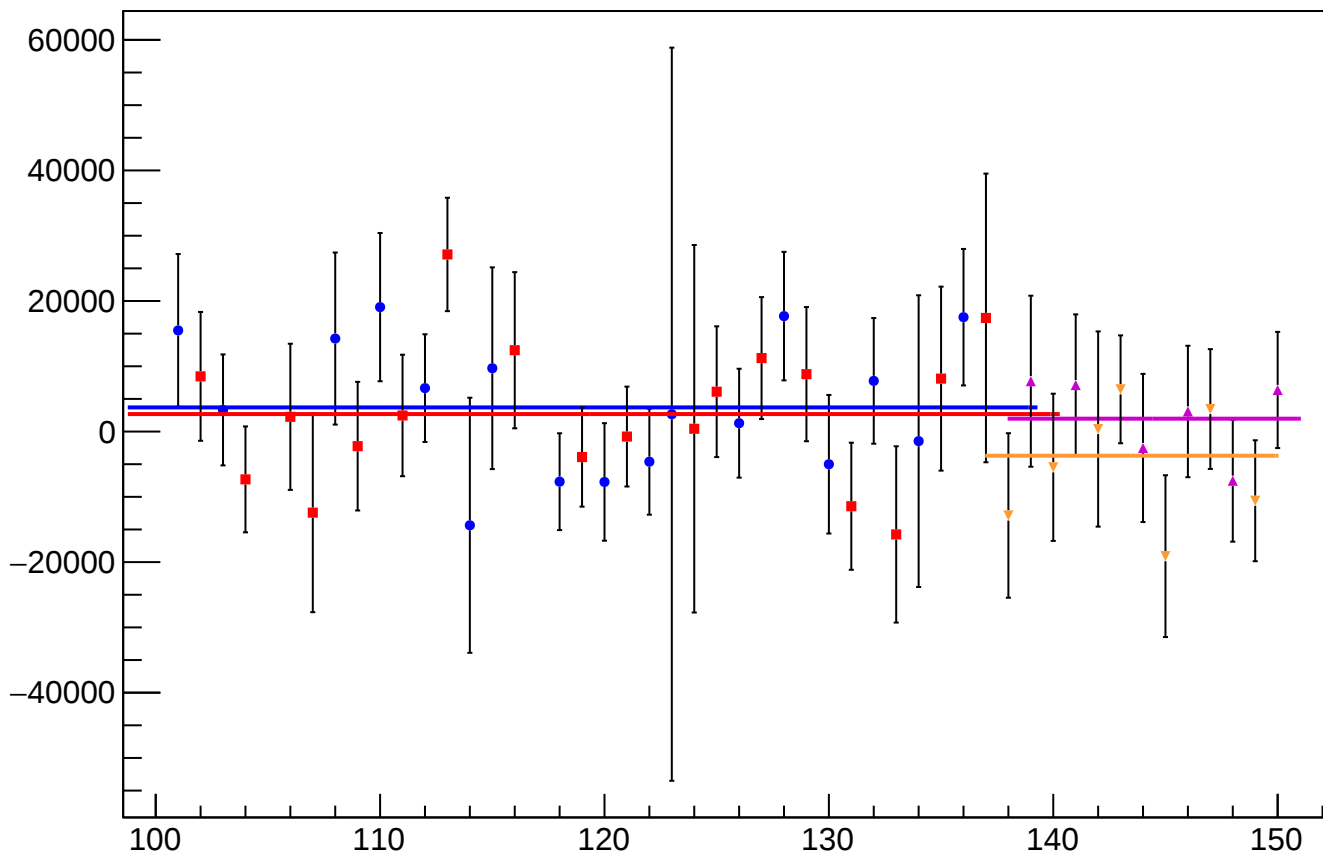
Right: 985.285+/-0.414  $\chi^2/\text{NDF}$ : 21755031.4/34

In: 1988.512+/-0.751  $\chi^2/\text{NDF}$ : 16282954.9/22

Out: 992.346+/-0.412  $\chi^2/\text{NDF}$ : 18369023.2/24

All: 1223.098+/-0.361  $\chi^2/\text{NDF}$ : 36004551.9/4

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3698.440+/-2517.949  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: -3700.289+/-3974.244  $\chi^2/\text{NDF}$ : 4.8/6

Right Out: 2679.483+/-2428.648  $\chi^2/\text{NDF}$ : 18.5/17

Left In: 1971.767+/-4222.561  $\chi^2/\text{NDF}$ : 1.9/5

Left: -1035.935+/-2894.021  $\chi^2/\text{NDF}$ : 7.7/12

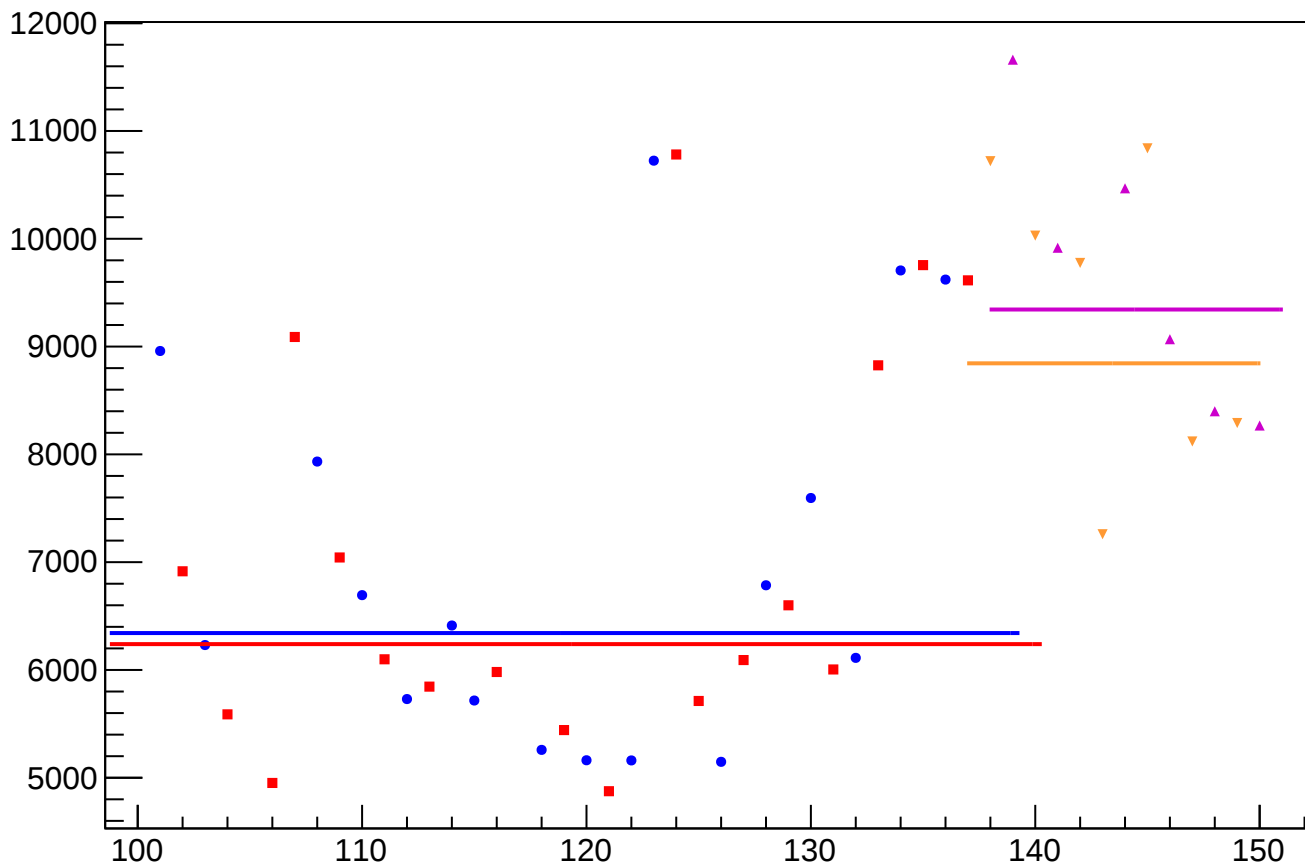
Right: 3170.572+/-1748.031  $\chi^2/\text{NDF}$ : 33.0/34

In: 3245.516+/-2162.638  $\chi^2/\text{NDF}$ : 16.4/22

Out: 944.818+/-2072.334  $\chi^2/\text{NDF}$ : 25.2/24

All: 2046.131+/-1496.268  $\chi^2/\text{NDF}$ : 42.2/47

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6342.327+/-1.780  $\chi^2/\text{NDF}$ : 593668.9/16

Left Out: 8844.548+/-2.810  $\chi^2/\text{NDF}$ : 219182.5/6

Right Out: 6239.726+/-1.717  $\chi^2/\text{NDF}$ : 529243.7/17

Left In: 9343.748+/-2.986  $\chi^2/\text{NDF}$ : 139035.7/5

Left: 9079.039+/-2.046  $\chi^2/\text{NDF}$ : 373040.8/12

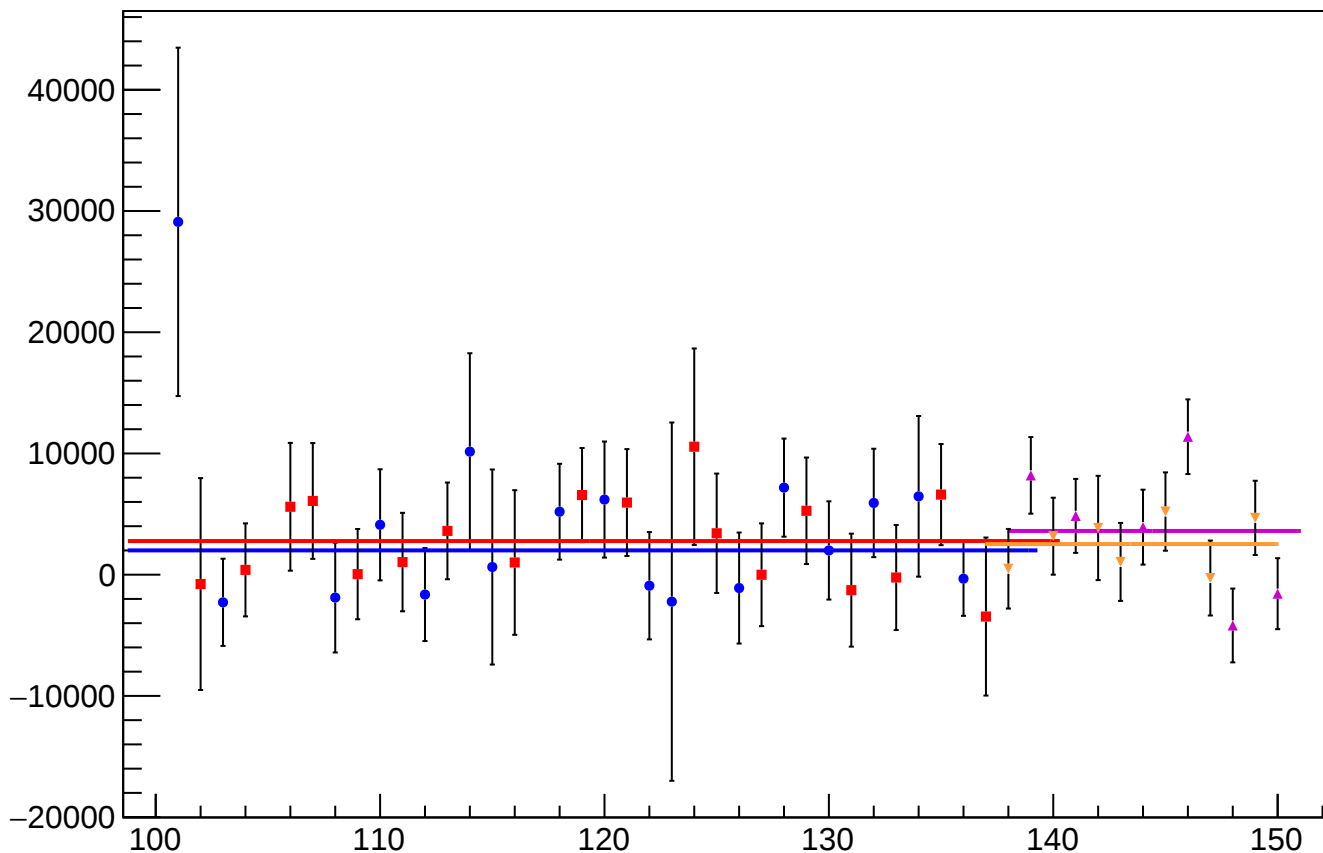
Right: 6289.173+/-1.236  $\chi^2/\text{NDF}$ : 1124633.0/34

In: 7129.625+/-1.529  $\chi^2/\text{NDF}$ : 1478134.4/22

Out: 6947.931+/-1.465  $\chi^2/\text{NDF}$ : 1373999.8/24

All: 7034.903+/-1.058  $\chi^2/\text{NDF}$ : 2859493.8/47

# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2004.589 $\pm$ 1125.432  $\chi^2$ /NDF: 13.7/16

Left Out: 2525.126 $\pm$ 1240.660  $\chi^2$ /NDF:2.7/6

Right Out: 2776.042 $\pm$ 1086.812  $\chi^2$ /NDF: 8.3/17

Left In: 3607.645 $\pm$ 1247.549  $\chi^2$ /NDF:18.3/5

Left: 3063.388 $\pm$ 879.704  $\chi^2$ /NDF: 21.5/12

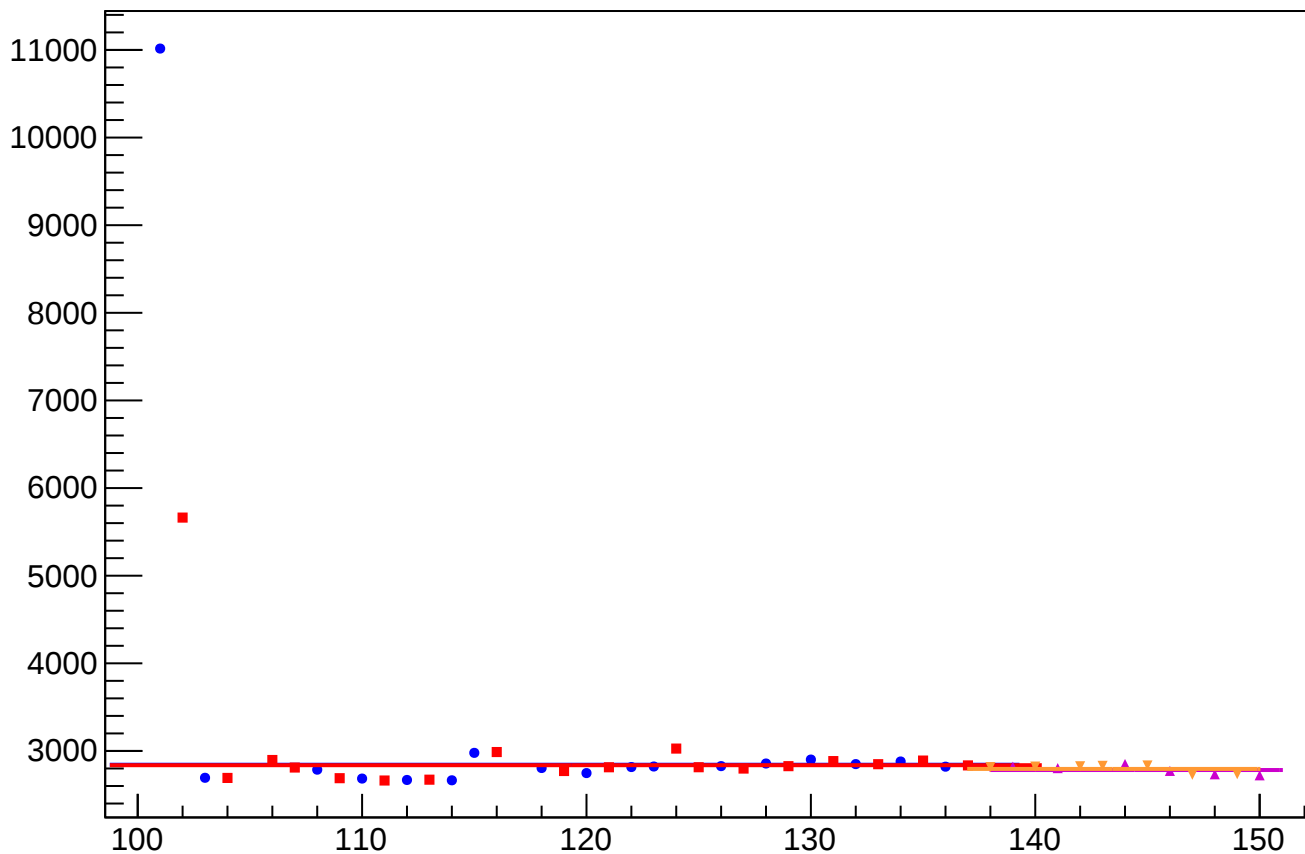
Right: 2403.779 $\pm$ 781.789  $\chi^2$ /NDF: 22.3/34

In: 2723.839 $\pm$ 835.648  $\chi^2$ /NDF:33.0/22

Out: 2667.098 $\pm$ 817.506  $\chi^2$ /NDF:11.1/24

All: 2694.846 $\pm$ 584.372  $\chi^2$ /NDF: 44.0/47

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In:  $2842.628 \pm 0.796$   $\chi^2/\text{NDF}$ : 660305.1/16

Left Out:  $2794.853 \pm 0.877$   $\chi^2/\text{NDF}$ : 2557.2/6

Right Out:  $2837.439 \pm 0.768$   $\chi^2/\text{NDF}$ : 226421.9/17

Left In:  $2782.373 \pm 0.882$   $\chi^2/\text{NDF}$ : 2770.0/5

Left:  $2788.647 \pm 0.622$   $\chi^2/\text{NDF}$ : 5427.8/12

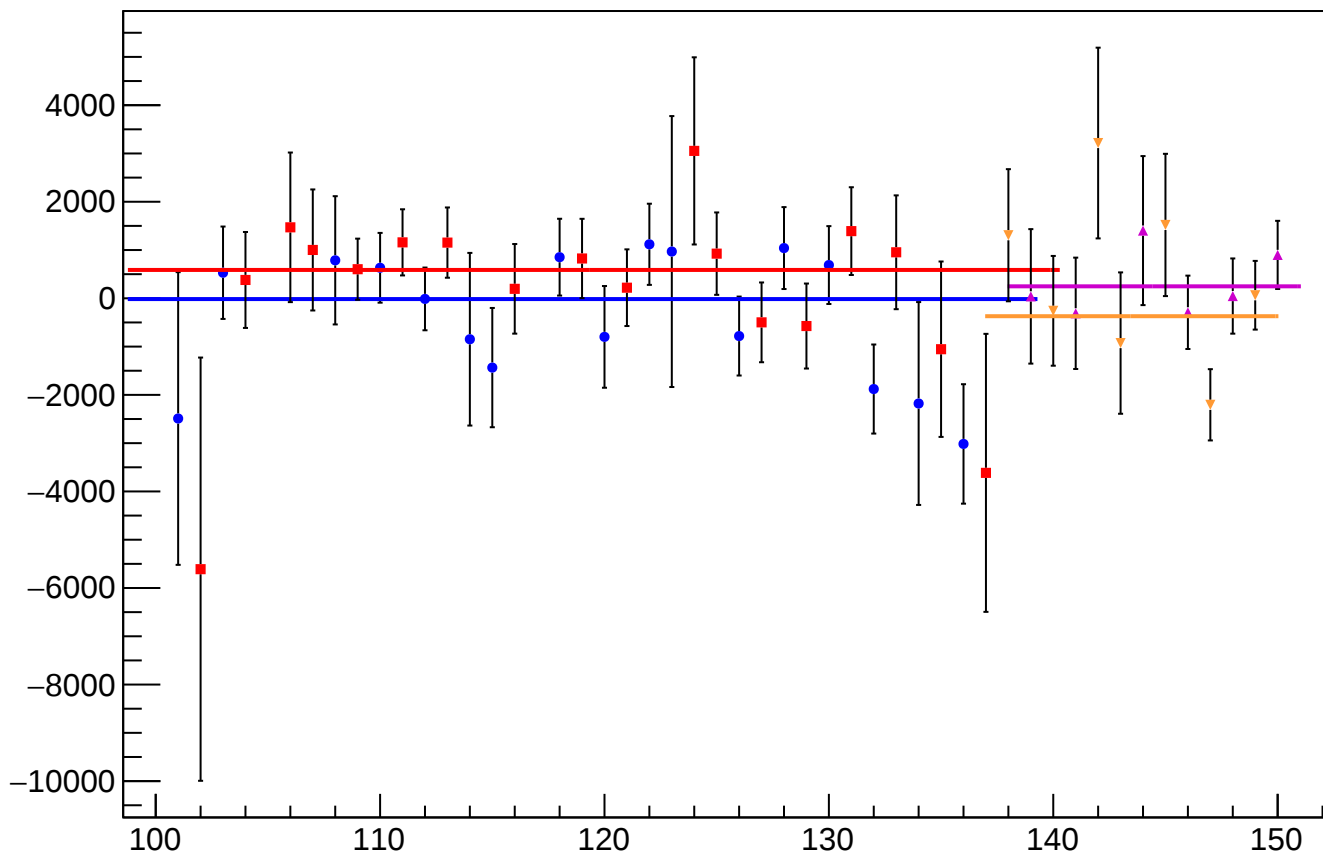
Right:  $2839.943 \pm 0.553$   $\chi^2/\text{NDF}$ : 886749.0/34

In:  $2815.593 \pm 0.591$   $\chi^2/\text{NDF}$ : 665647.4/22

Out:  $2818.949 \pm 0.578$   $\chi^2/\text{NDF}$ : 230312.4/24

All:  $2817.308 \pm 0.413$   $\chi^2/\text{NDF}$ : 895976.3/47

# asym\_atr1\_correction\_mean vs Slug, Sign Corrected



Right In:  $-15.631 \pm 238.862$   $\chi^2/\text{NDF}: 21.6/16$

Left Out:  $-370.585 \pm 398.310$   $\chi^2/\text{NDF}: 13.2/6$

Right Out:  $587.609 \pm 225.811$   $\chi^2/\text{NDF}: 13.3/17$

Left In:  $248.239 \pm 375.921$   $\chi^2/\text{NDF}: 2.2/5$

Left:  $-43.293 \pm 273.389$   $\chi^2/\text{NDF}: 16.7/12$

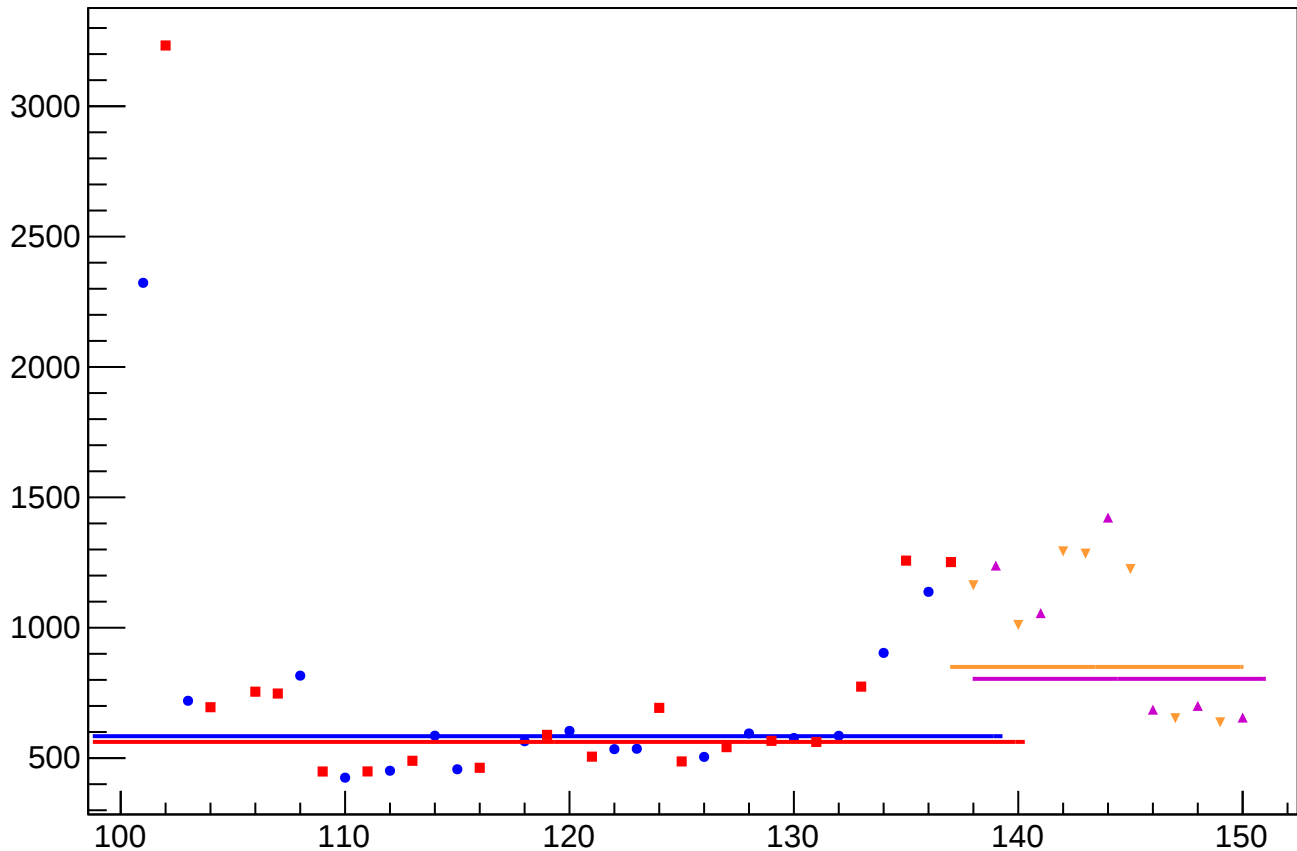
Right:  $302.919 \pm 164.093$   $\chi^2/\text{NDF}: 38.3/34$

In:  $60.263 \pm 201.606$   $\chi^2/\text{NDF}: 24.2/22$

Out:  $354.549 \pm 196.439$   $\chi^2/\text{NDF}: 30.9/24$

All:  $211.226 \pm 140.695$   $\chi^2/\text{NDF}: 56.1/47$

# asym\_atr1\_correction\_rms vs Slug, Sign Corrected



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 849.654+/-0.282  $\chi^2/\text{NDF}$ : 871817.0/6

Right Out: 562.122+/-0.160  $\chi^2/\text{NDF}$ : 1525298.9/17

Left In: 803.998+/-0.266  $\chi^2/\text{NDF}$ : 783869.4/5

Left: 825.507+/-0.193  $\chi^2/\text{NDF}$ : 1669584.0/12

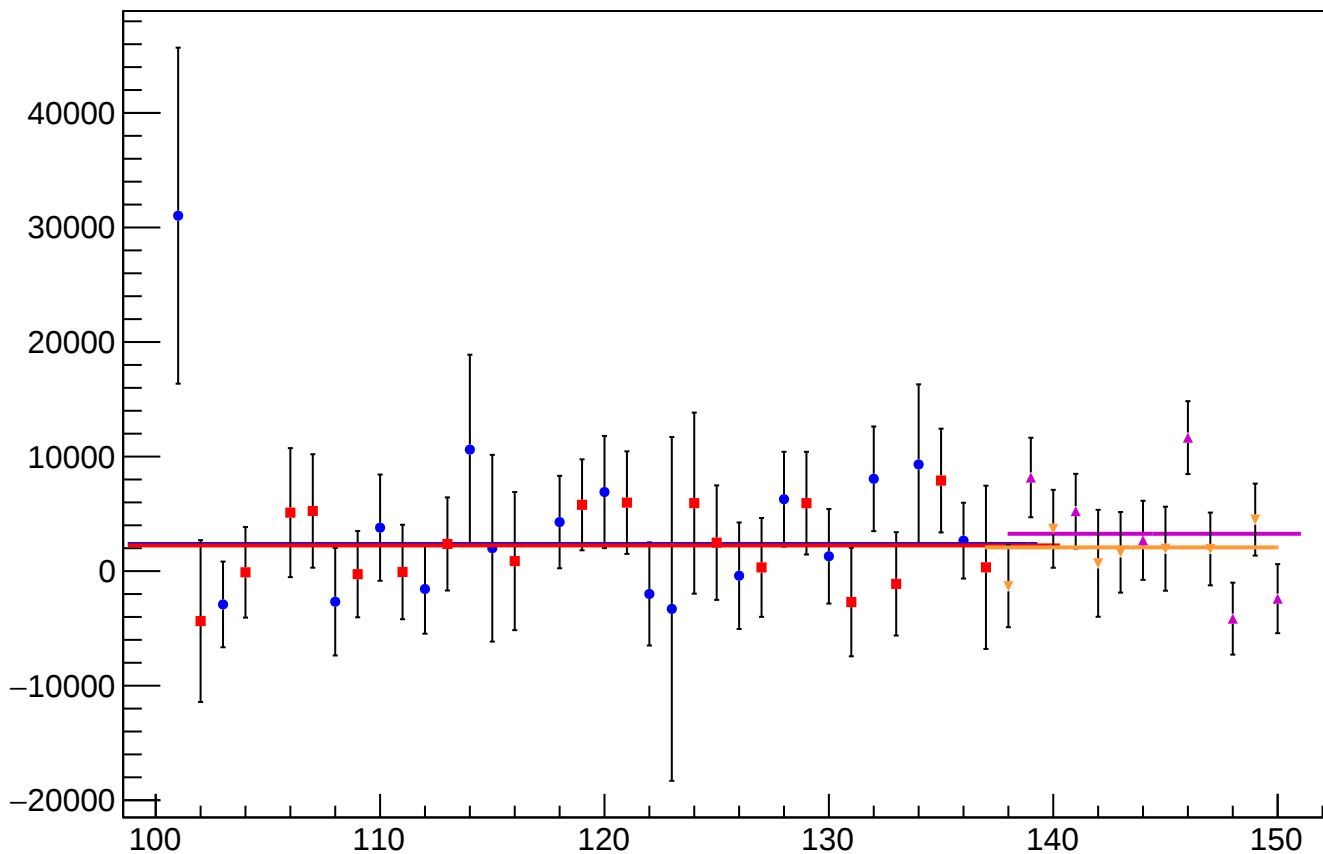
Right: 572.473+/-0.116  $\chi^2/\text{NDF}$ : 2970817.1/34

In: 647.315+/-0.143  $\chi^2/\text{NDF}$ : 2708202.6/22

Out: 632.058+/-0.139  $\chi^2/\text{NDF}$ : 3185838.4/24

All: 639.488+/-0.099  $\chi^2/\text{NDF}$ : 5899916.7/47

# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2362.798+/-1159.943  $\chi^2/\text{NDF}$ : 15.1/16

Left Out: 2073.991+/-1329.343  $\chi^2/\text{NDF}$ : 1.8/6

Right Out: 2245.410+/-1111.935  $\chi^2/\text{NDF}$ : 8.5/17

Left In: 3261.159+/-1323.125  $\chi^2/\text{NDF}$ : 18.4/5

Left: 2670.358+/-937.781  $\chi^2/\text{NDF}$ : 20.7/12

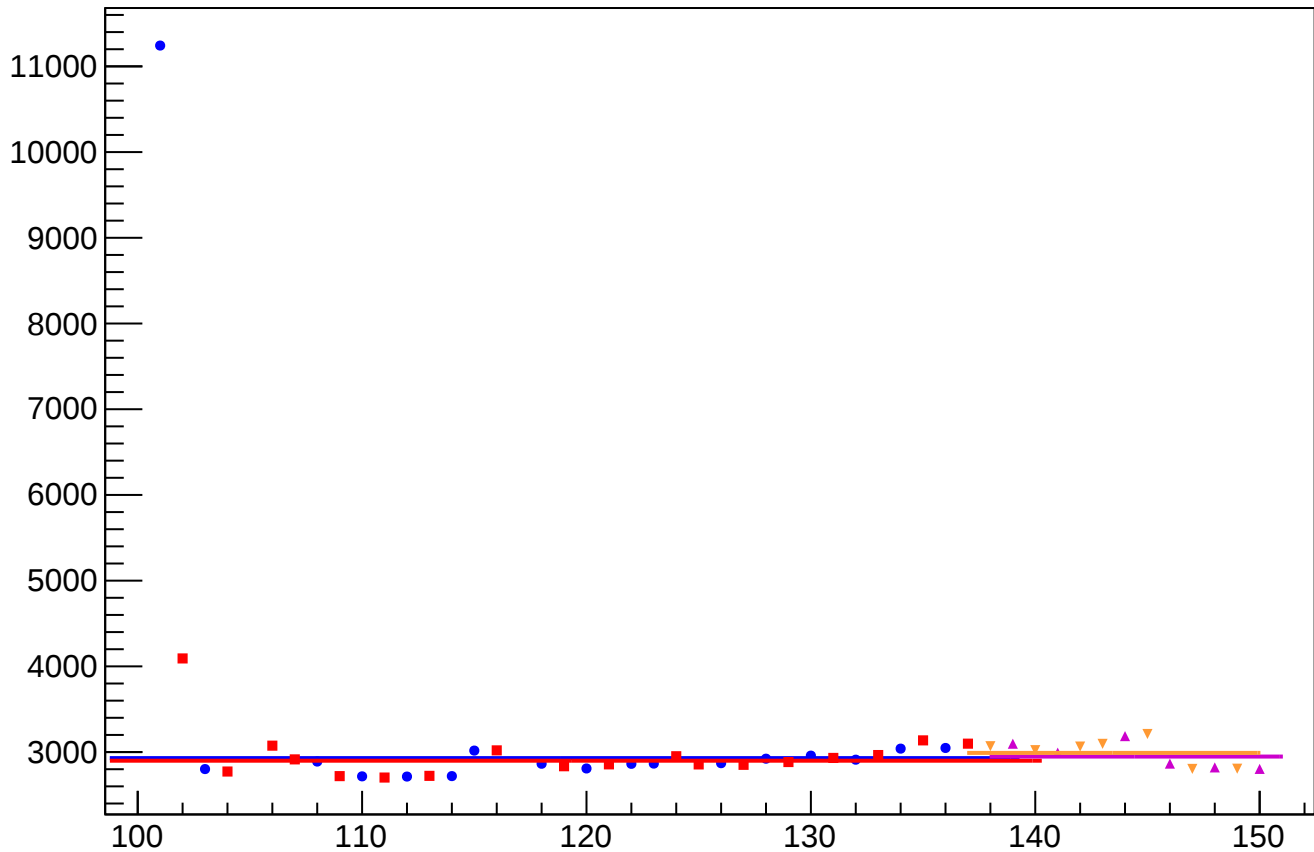
Right: 2301.625+/-802.692  $\chi^2/\text{NDF}$ : 23.6/34

In: 2753.194+/-872.224  $\chi^2/\text{NDF}$ : 33.8/22

Out: 2174.846+/-852.901  $\chi^2/\text{NDF}$ : 10.4/24

All: 2457.543+/-609.809  $\chi^2/\text{NDF}$ : 44.4/47

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2990.416+/-0.940  $\chi^2/\text{NDF}$ : 24458.1/6

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

Left In: 2947.716+/-0.936  $\chi^2/\text{NDF}$ : 22782.7/5

Left: 2968.966+/-0.663  $\chi^2/\text{NDF}$ : 48277.4/12

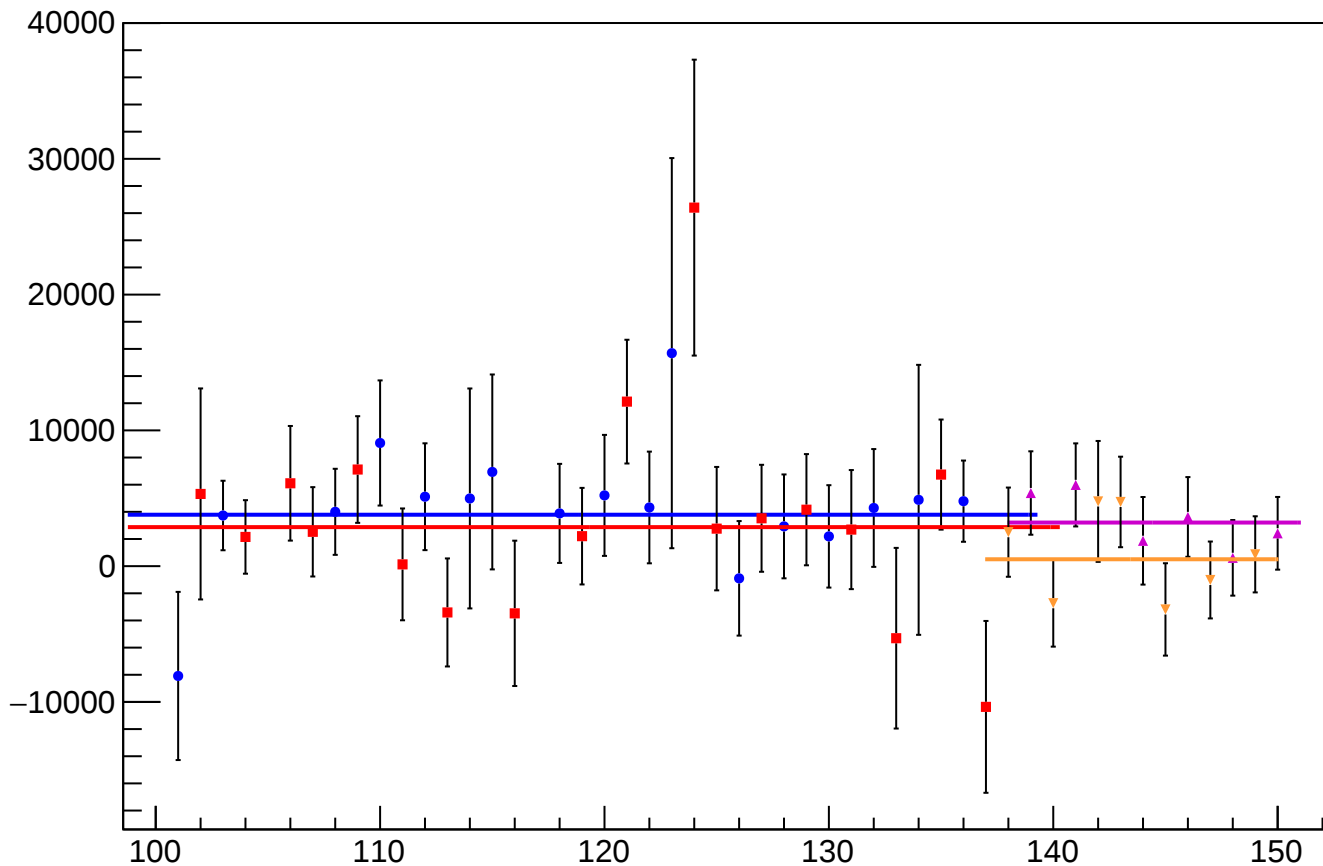
Right: 2913.904+/-0.568  $\chi^2/\text{NDF}$ : 746879.7/34

In: 2937.503+/-0.617  $\chi^2/\text{NDF}$ : 685622.5/22

Out: 2936.884+/-0.603  $\chi^2/\text{NDF}$ : 113513.5/24

All: 2937.187+/-0.431  $\chi^2/\text{NDF}$ : 799136.5/47

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3787.840+/-1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 507.379+/-1222.500  $\chi^2/\text{NDF}$ : 5.4/6

Right Out: 2874.691+/-1004.077  $\chi^2/\text{NDF}$ : 22.0/17

Left In: 3211.257+/-1200.819  $\chi^2/\text{NDF}$ : 2.5/5

Left: 1883.507+/-856.670  $\chi^2/\text{NDF}$ : 10.4/12

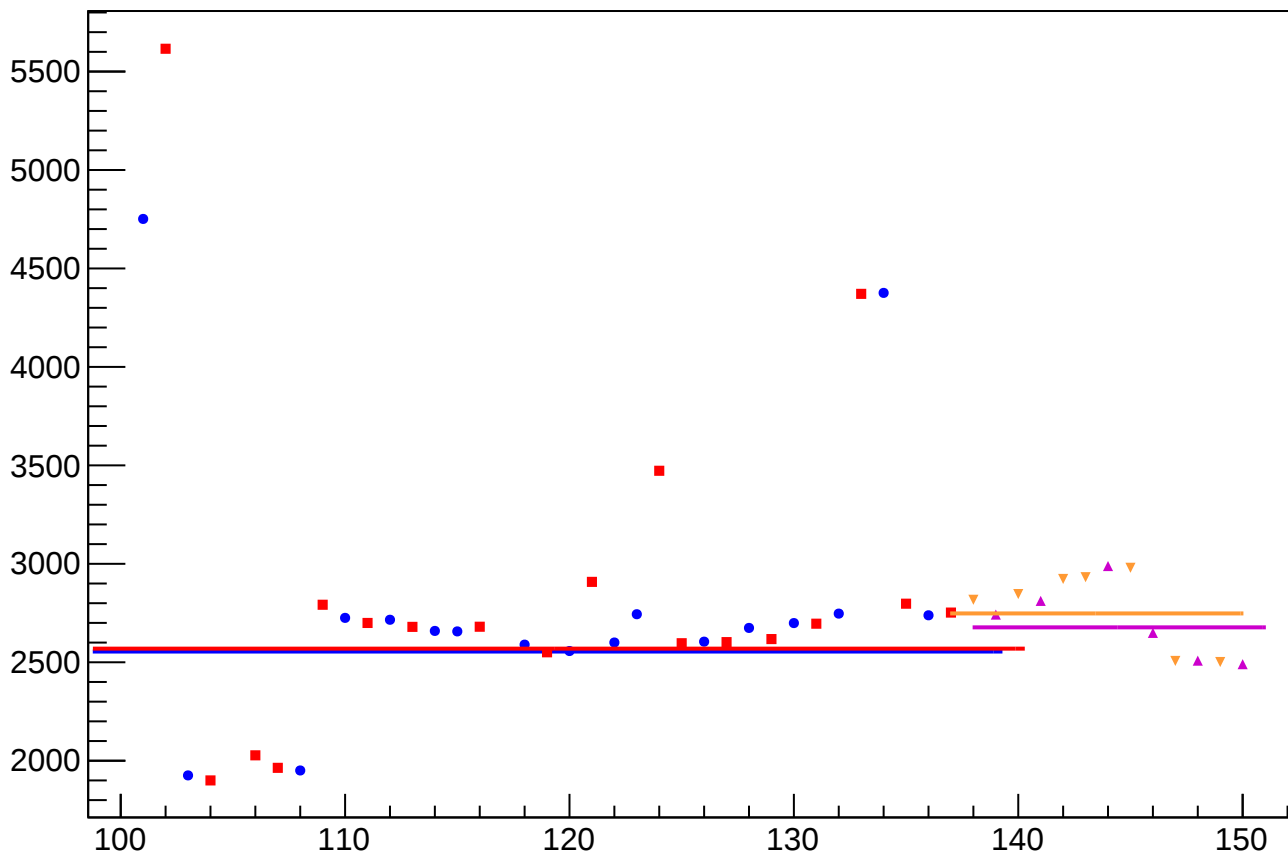
Right: 3329.431+/-711.415  $\chi^2/\text{NDF}$ : 30.2/34

In: 3549.468+/-772.102  $\chi^2/\text{NDF}$ : 10.3/22

Out: 1921.050+/-775.914  $\chi^2/\text{NDF}$ : 29.7/24

All: 2739.269+/-547.301  $\chi^2/\text{NDF}$ : 42.2/47

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2554.537 $\pm$ 0.713  $\chi^2/\text{NDF}$ : 536626.0/16

Left Out: 2748.065 $\pm$ 0.864  $\chi^2/\text{NDF}$ : 51260.9/6

Right Out: 2569.256 $\pm$ 0.710  $\chi^2/\text{NDF}$ : 723332.1/17

Left In: 2677.347 $\pm$ 0.849  $\chi^2/\text{NDF}$ : 40701.2/5

Left: 2712.073 $\pm$ 0.606  $\chi^2/\text{NDF}$ : 95368.3/12

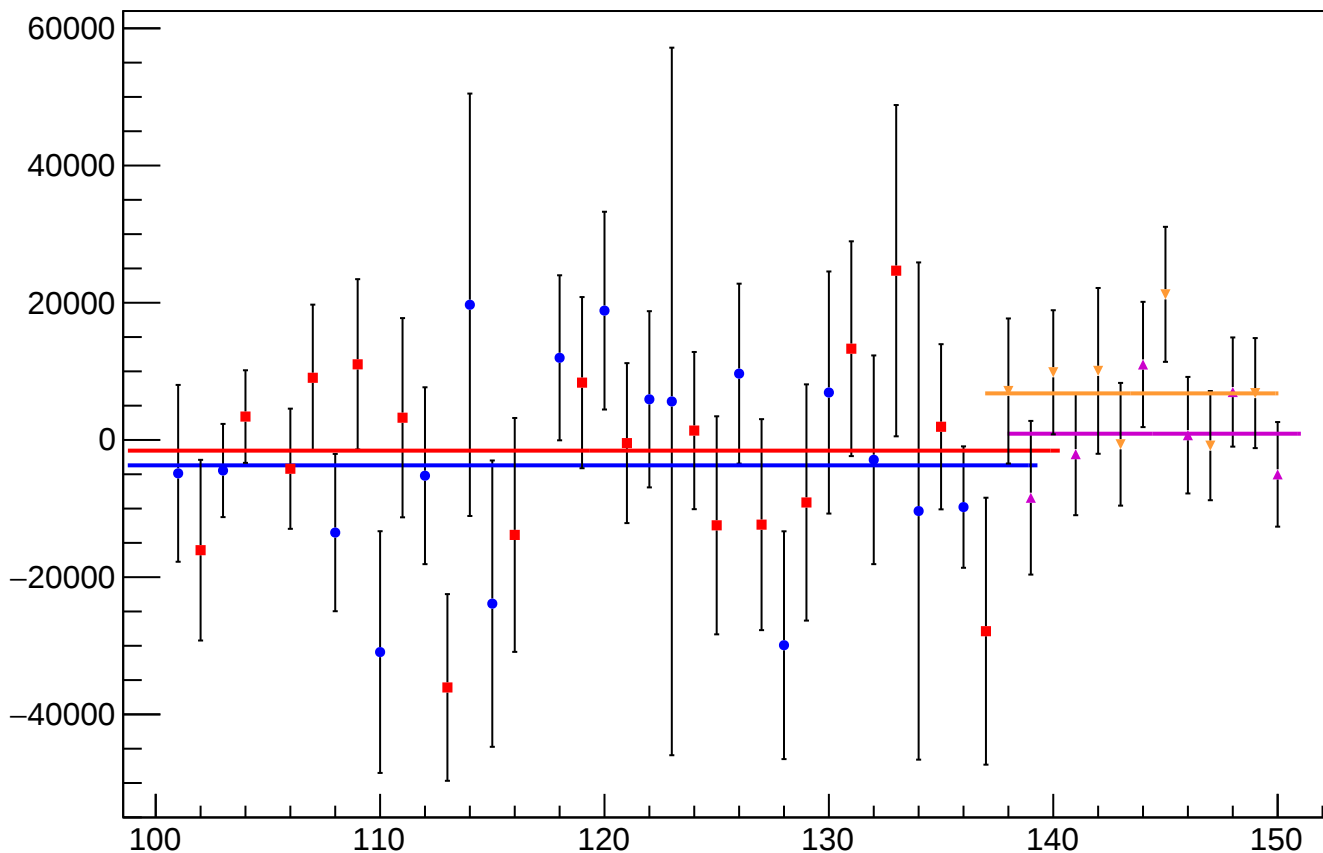
Right: 2561.929 $\pm$ 0.503  $\chi^2/\text{NDF}$ : 1260172.2/34

In: 2605.309 $\pm$ 0.546  $\chi^2/\text{NDF}$ : 589597.9/22

Out: 2641.252 $\pm$ 0.549  $\chi^2/\text{NDF}$ : 800152.1/24

All: 2623.197 $\pm$ 0.387  $\chi^2/\text{NDF}$ : 1391906.9/47

# asym\_atr2\_correction\_mean vs Slug, Sign Corrected



Right In: -3699.522 $\pm$ 3217.843  $\chi^2$ /NDF: 13.8/16

Left Out: 6789.737 $\pm$ 3488.141  $\chi^2$ /NDF: 3.9/6

Right Out: -1555.707 $\pm$ 2911.769  $\chi^2$ /NDF: 16.8/17

Left In: 912.090 $\pm$ 3547.673  $\chi^2$ /NDF: 3.2/5

Left: 3900.642 $\pm$ 2487.269  $\chi^2$ /NDF: 8.6/12

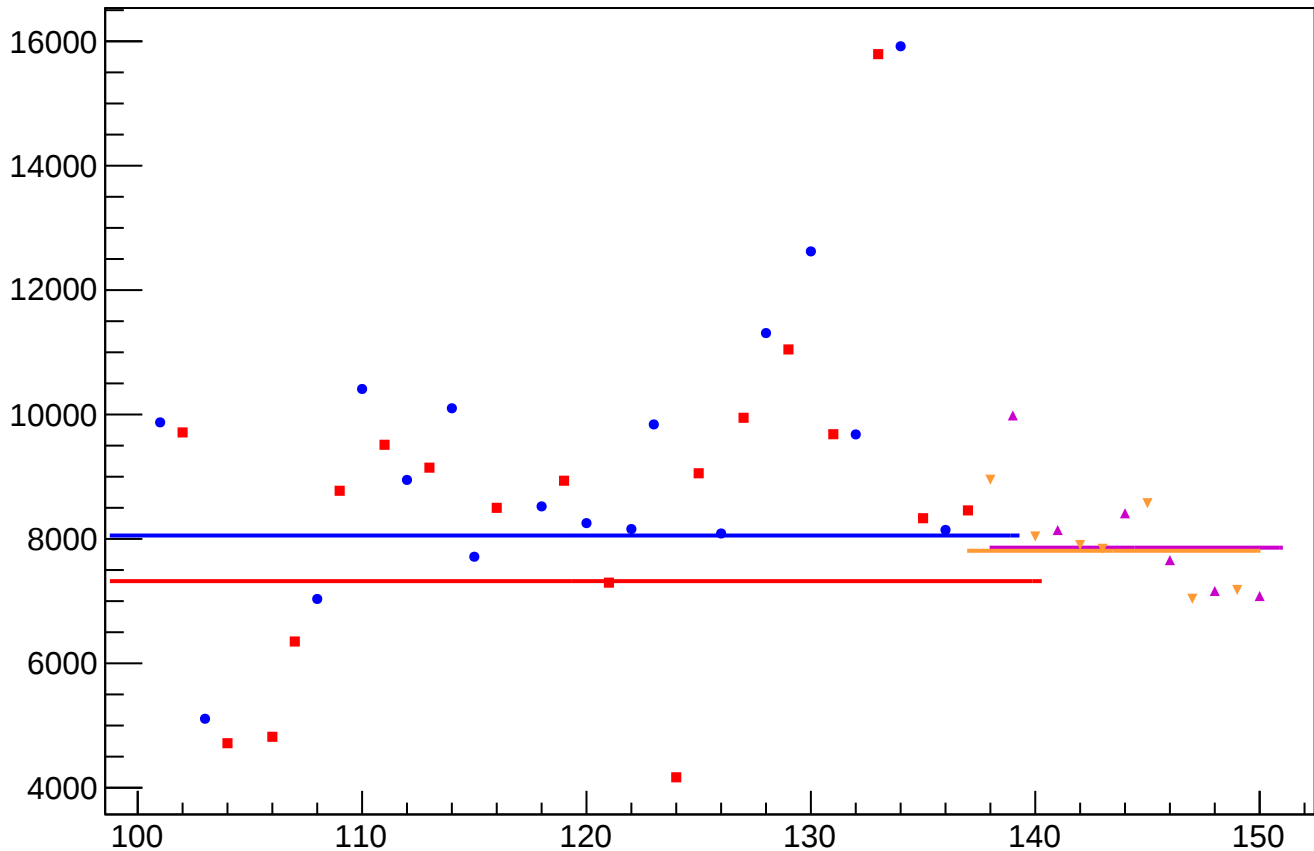
Right: -2520.832 $\pm$ 2159.052  $\chi^2$ /NDF: 30.8/34

In: -1618.006 $\pm$ 2383.455  $\chi^2$ /NDF: 18.0/22

Out: 1871.477 $\pm$ 2235.311  $\chi^2$ /NDF: 24.1/24

All: 238.543 $\pm$ 1630.462  $\chi^2$ /NDF: 43.2/47

asym\_atr2\_correction\_rms vs Slug, Sign Corrected



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 7809.461+/-2.466  $\chi^2/\text{NDF}$ : 67979.3/6

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

Left In: 7859.584+/-2.509  $\chi^2/\text{NDF}$ : 118655.2/5

Left: 7834.099+/-1.759  $\chi^2/\text{NDF}$ : 186837.4/12

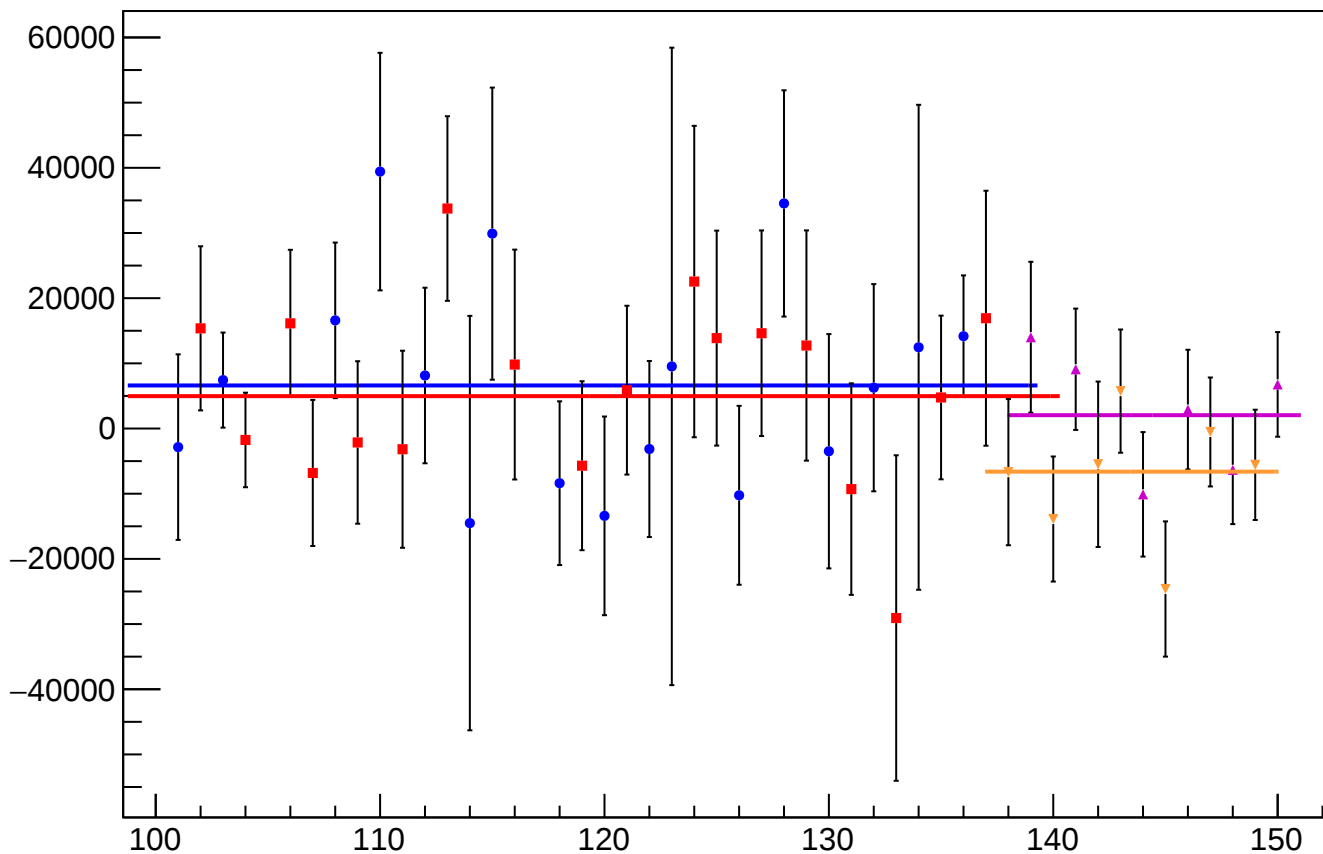
Right: 7651.572+/-1.527  $\chi^2/\text{NDF}$ : 2213832.0/34

In: 7966.671+/-1.685  $\chi^2/\text{NDF}$ : 942740.0/22

Out: 7521.846+/-1.581  $\chi^2/\text{NDF}$ : 1427008.6/24

All: 7730.006+/-1.153  $\chi^2/\text{NDF}$ : 2406811.7/47

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -6614.785+/-3681.201  $\chi^2/\text{NDF}$ : 5.8/6

Right Out: 4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 2047.874+/-3732.595  $\chi^2/\text{NDF}$ : 4.6/5

Left: -2343.504+/-2620.984  $\chi^2/\text{NDF}$ : 13.2/12

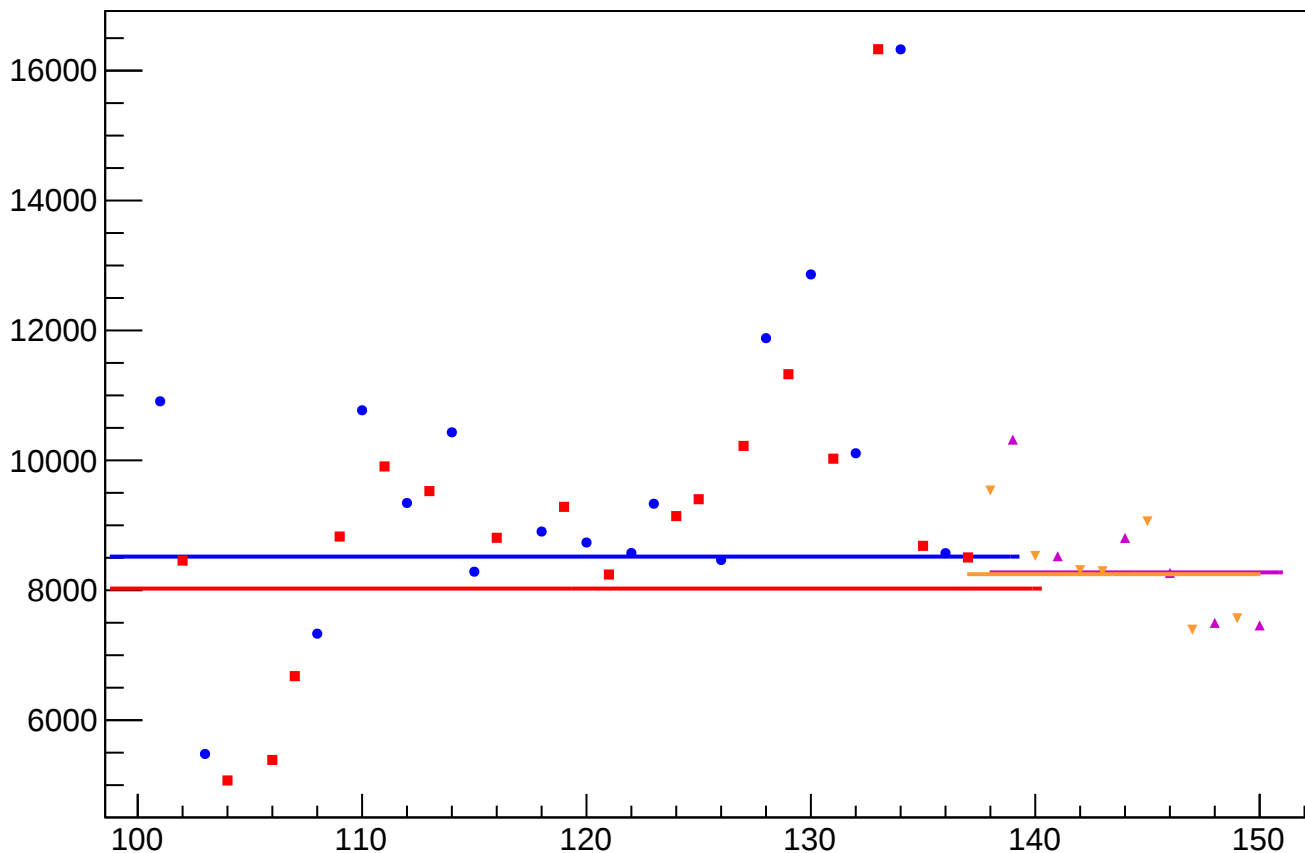
Right: 5732.997+/-2319.944  $\chi^2/\text{NDF}$ : 28.4/34

In: 4542.499+/-2511.867  $\chi^2/\text{NDF}$ : 20.1/22

Out: 23.698+/-2405.086  $\chi^2/\text{NDF}$ : 25.1/24

All: 2185.010+/-1737.176  $\chi^2/\text{NDF}$ : 46.9/47

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8518.273+/-2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 8247.539+/-2.603  $\chi^2/\text{NDF}$ : 74315.4/6

Right Out: 8026.045+/-2.246  $\chi^2/\text{NDF}$ : 942657.8/17

Left In: 8275.377+/-2.639  $\chi^2/\text{NDF}$ : 108121.7/5

Left: 8261.265+/-1.853  $\chi^2/\text{NDF}$ : 182493.6/12

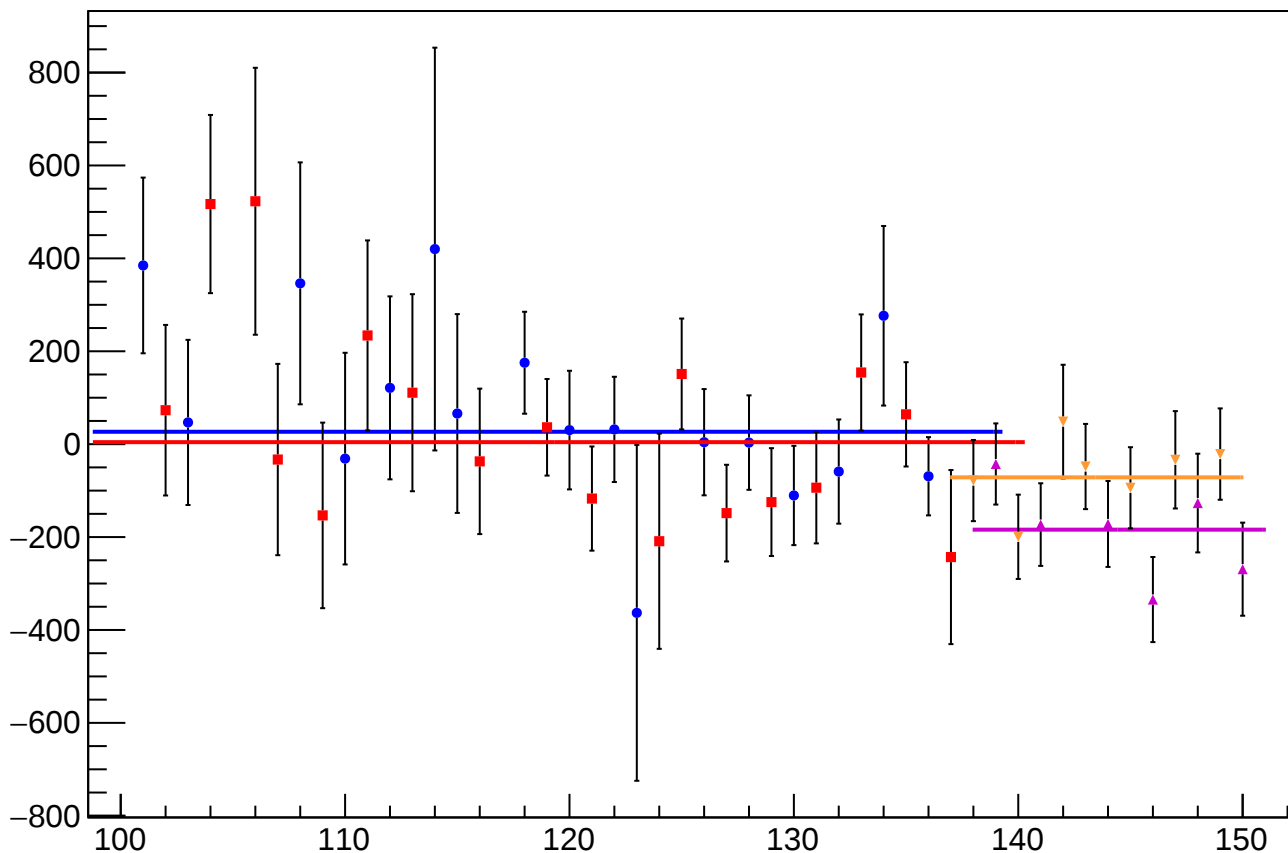
Right: 8255.767+/-1.640  $\chi^2/\text{NDF}$ : 1737062.4/34

In: 8408.273+/-1.776  $\chi^2/\text{NDF}$ : 884750.6/22

Out: 8120.587+/-1.701  $\chi^2/\text{NDF}$ : 1021123.3/24

All: 8258.182+/-1.228  $\chi^2/\text{NDF}$ : 1919560.9/47

# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In:  $26.713 \pm 33.626$   $\chi^2/\text{NDF}: 14.5/16$

Left Out:  $-71.407 \pm 36.187$   $\chi^2/\text{NDF}: 3.5/6$

Right Out:  $4.338 \pm 33.842$   $\chi^2/\text{NDF}: 23.9/17$

Left In:  $-184.037 \pm 38.303$   $\chi^2/\text{NDF}: 6.4/5$

Left:  $-124.526 \pm 26.304$   $\chi^2/\text{NDF}: 14.4/12$

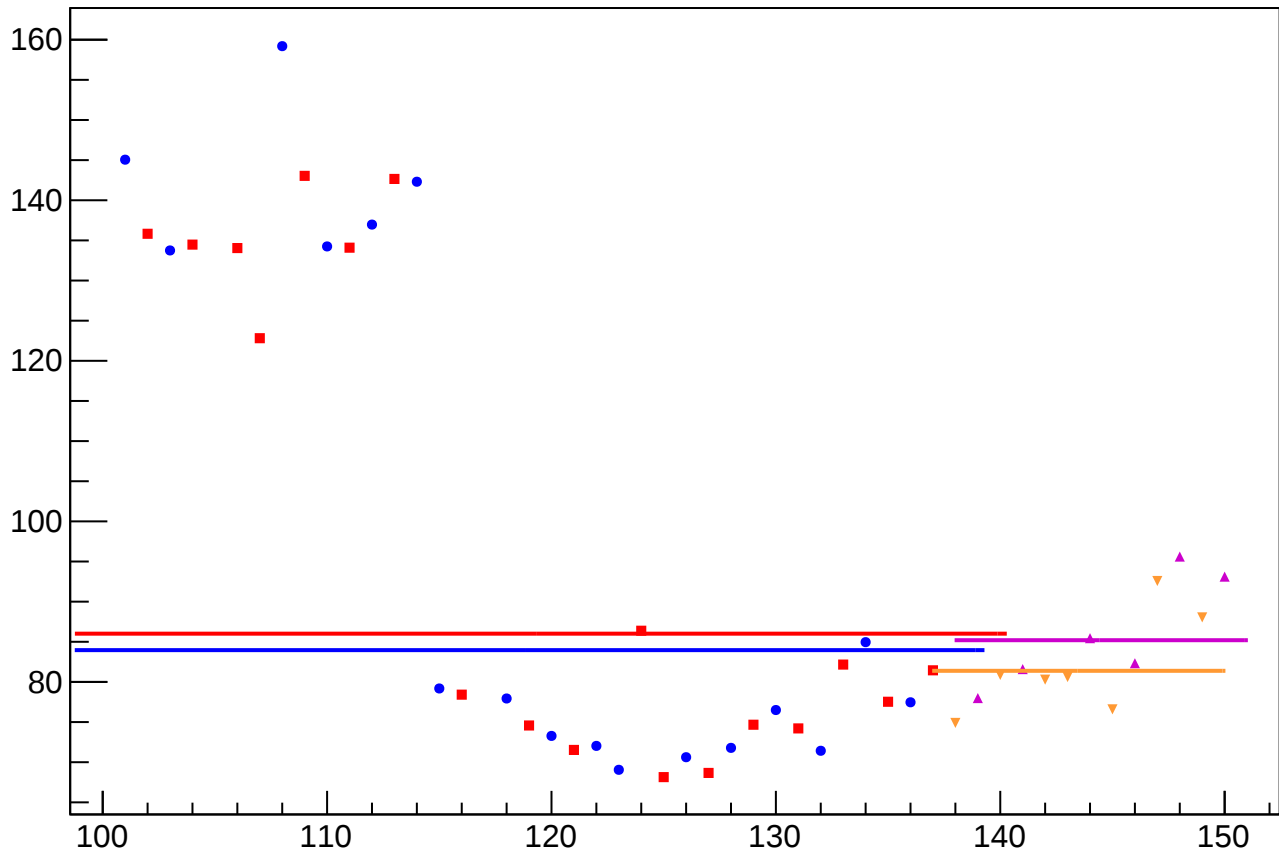
Right:  $15.597 \pm 23.853$   $\chi^2/\text{NDF}: 38.7/34$

In:  $-65.017 \pm 25.270$   $\chi^2/\text{NDF}: 38.0/22$

Out:  $-31.000 \pm 24.717$   $\chi^2/\text{NDF}: 29.7/24$

All:  $-47.633 \pm 17.670$   $\chi^2/\text{NDF}: 68.7/47$

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In:  $83.961 \pm 0.024$   $\chi^2/\text{NDF}: 960253.6/16$

Left Out:  $81.385 \pm 0.026$   $\chi^2/\text{NDF}: 49404.2/6$

Right Out:  $86.012 \pm 0.024$   $\chi^2/\text{NDF}: 1026404.0/17$

Left In:  $85.198 \pm 0.027$   $\chi^2/\text{NDF}: 50592.7/5$

Left:  $83.183 \pm 0.019$   $\chi^2/\text{NDF}: 110468.4/12$

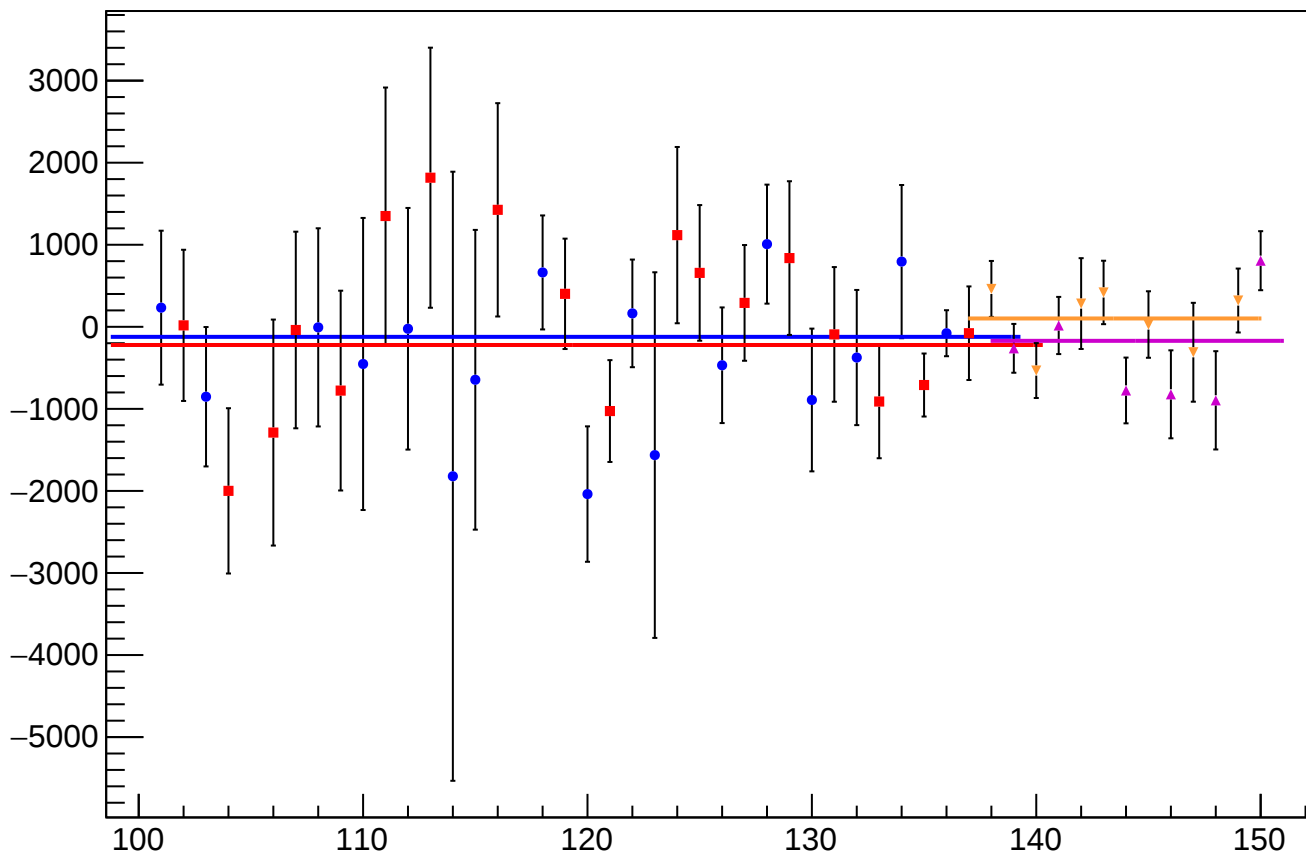
Right:  $84.980 \pm 0.017$   $\chi^2/\text{NDF}: 1990355.7/34$

In:  $84.499 \pm 0.018$   $\chi^2/\text{NDF}: 1012024.1/22$

Out:  $83.853 \pm 0.017$   $\chi^2/\text{NDF}: 1093253.9/24$

All:  $84.169 \pm 0.012$   $\chi^2/\text{NDF}: 2105945.6/47$

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}: 13.0/16$

Left Out:  $101.637 \pm 152.626$   $\chi^2/\text{NDF}: 6.3/6$

Right Out:  $-221.525 \pm 185.098$   $\chi^2/\text{NDF}: 18.0/17$

Left In:  $-170.865 \pm 158.591$   $\chi^2/\text{NDF}: 13.0/5$

Left:  $-29.394 \pm 109.971$   $\chi^2/\text{NDF}: 20.8/12$

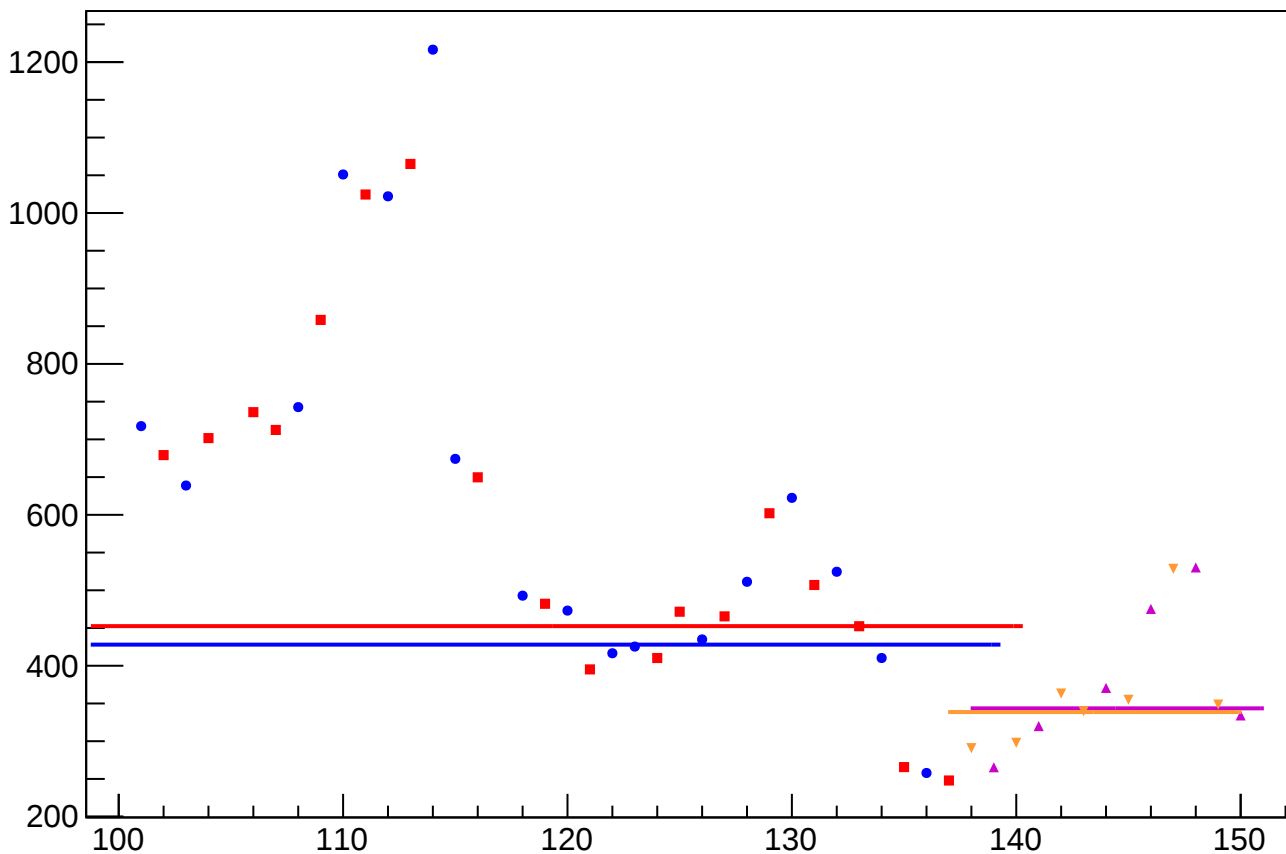
Right:  $-170.470 \pm 128.892$   $\chi^2/\text{NDF}: 31.2/34$

In:  $-149.634 \pm 118.874$   $\chi^2/\text{NDF}: 26.0/22$

Out:  $-29.157 \pm 117.757$   $\chi^2/\text{NDF}: 26.1/24$

All:  $-88.827 \pm 83.659$   $\chi^2/\text{NDF}: 52.7/47$

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 338.634+/-0.108  $\chi^2/\text{NDF}$ :275879.1/6

Right Out: 452.508+/-0.131  $\chi^2/\text{NDF}$ : 2073032.9/17

Left In: 343.534+/-0.112  $\chi^2/\text{NDF}$ :472687.7/5

Left: 340.990+/-0.078  $\chi^2/\text{NDF}$ : 749558.1/12

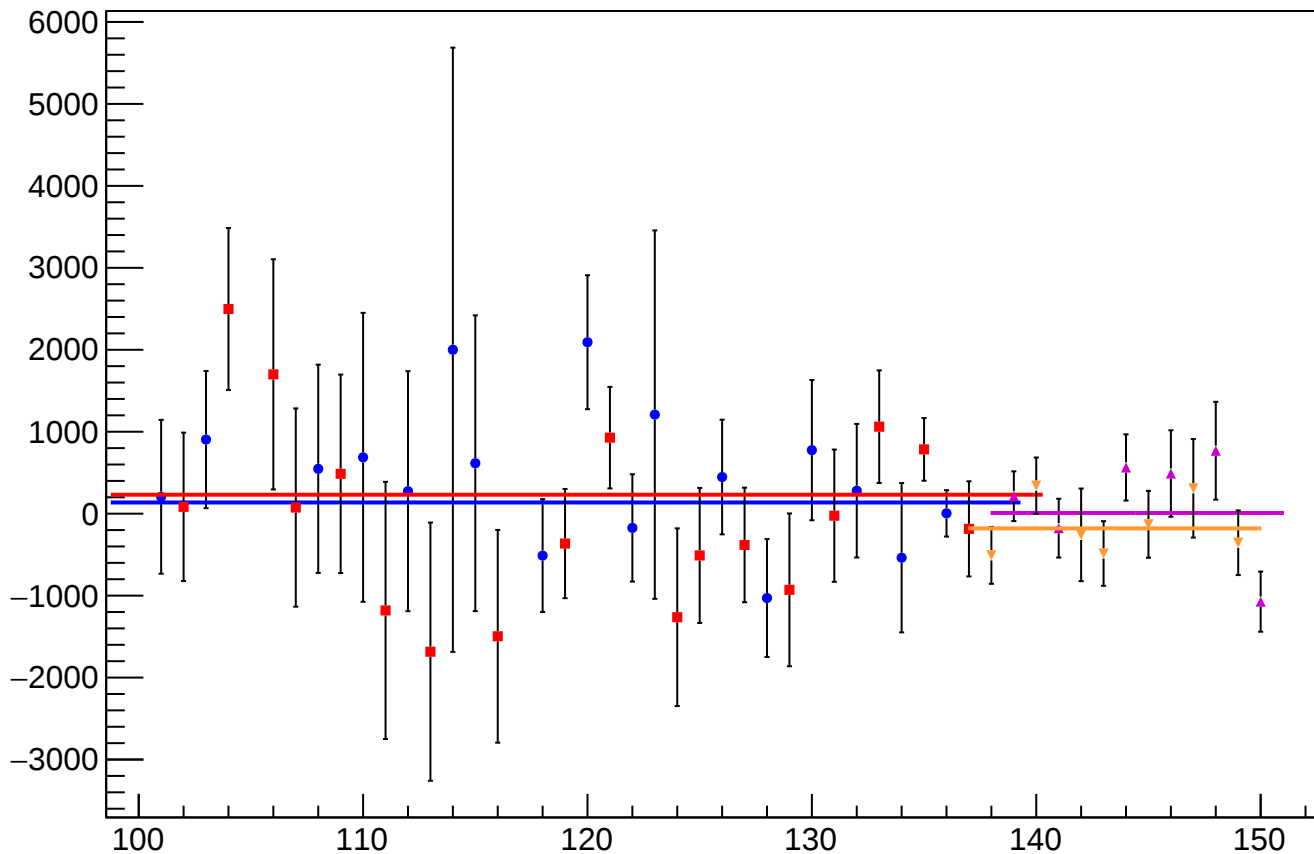
Right: 439.876+/-0.091  $\chi^2/\text{NDF}$ : 4153360.2/34

In: 380.536+/-0.084  $\chi^2/\text{NDF}$ :2783428.5/22

Out: 384.722+/-0.083  $\chi^2/\text{NDF}$ :2799508.3/24

All: 382.649+/-0.059  $\chi^2/\text{NDF}$ : 5584188.2/47

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 136.810 $\pm$ 179.609  $\chi^2$ /NDF: 12.6/16

Left Out: -179.377 $\pm$ 155.122  $\chi^2$ /NDF: 4.7/6

Right Out: 231.586 $\pm$ 184.578  $\chi^2$ /NDF: 21.8/17

Left In: 8.712 $\pm$ 160.961  $\chi^2$ /NDF: 13.8/5

Left: -88.806 $\pm$ 111.695  $\chi^2$ /NDF: 19.2/12

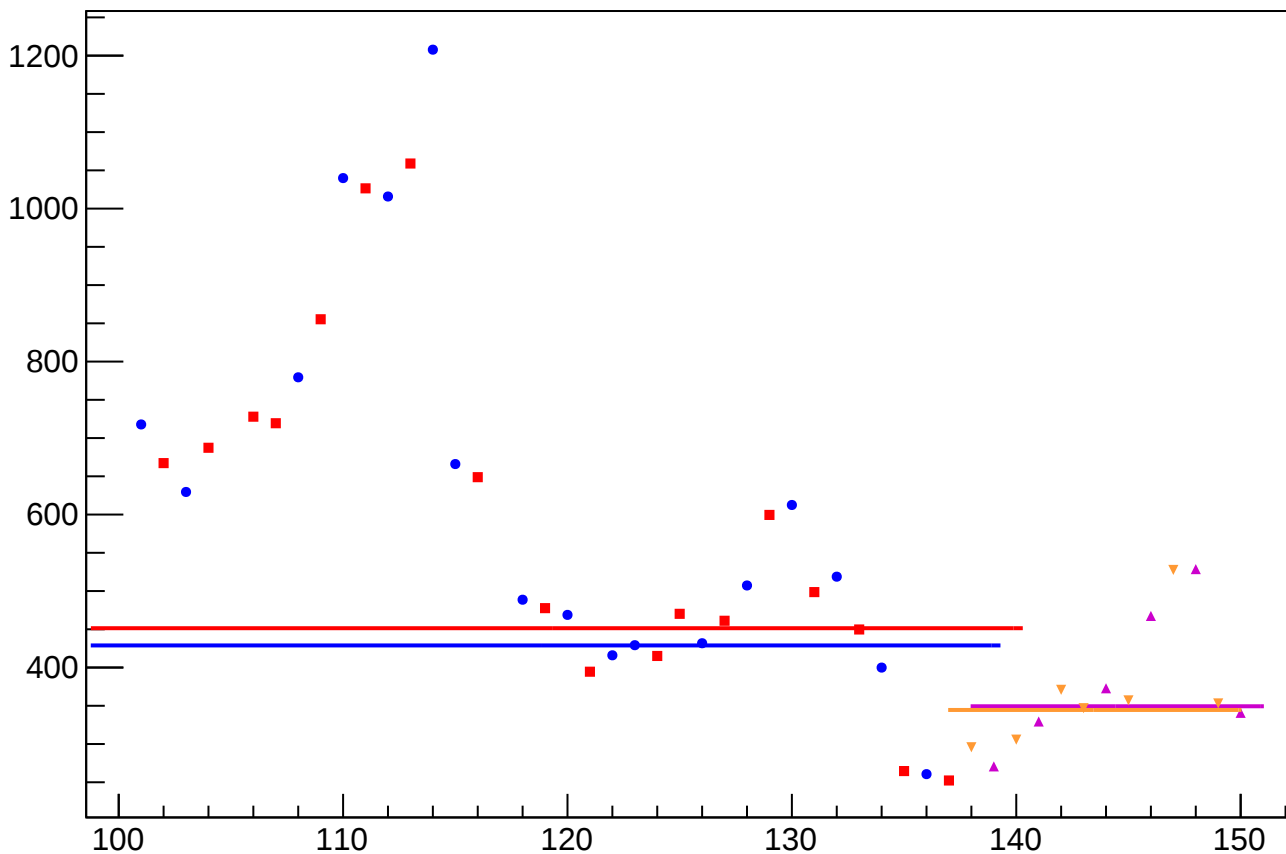
Right: 182.905 $\pm$ 128.724  $\chi^2$ /NDF: 34.5/34

In: 65.768 $\pm$ 119.869  $\chi^2$ /NDF: 26.7/22

Out: -9.265 $\pm$ 118.754  $\chi^2$ /NDF: 29.4/24

All: 27.901 $\pm$ 84.363  $\chi^2$ /NDF: 56.2/47

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.889 $\pm$ 0.127  $\chi^2$ /NDF: 2010592.5/16

Left Out: 344.531 $\pm$ 0.110  $\chi^2$ /NDF:257865.5/6

Right Out: 451.411 $\pm$ 0.131  $\chi^2$ /NDF: 2030742.8/17

Left In: 349.352 $\pm$ 0.114  $\chi^2$ /NDF:429007.7/5

Left: 346.852 $\pm$ 0.079  $\chi^2$ /NDF: 687803.6/12

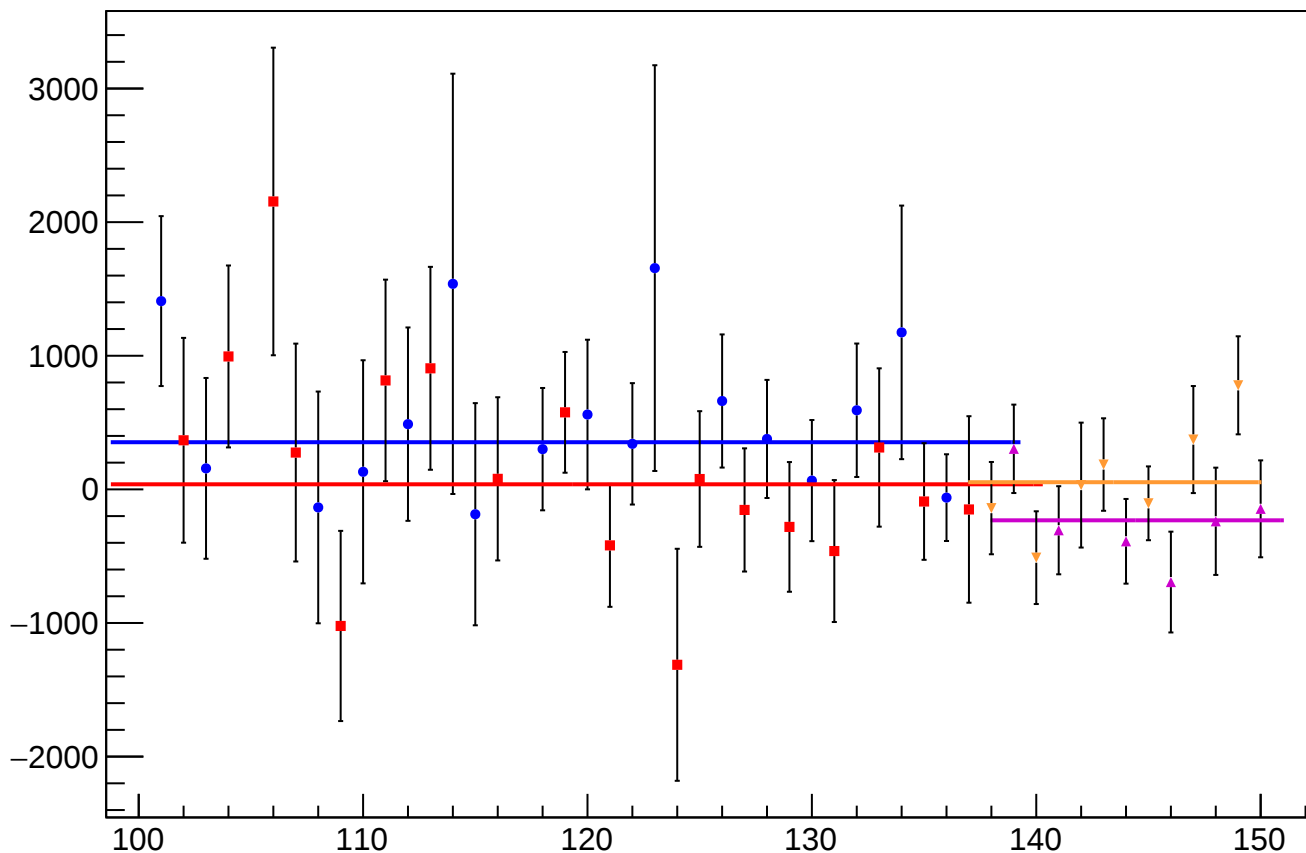
Right: 439.843 $\pm$ 0.091  $\chi^2$ /NDF: 4056629.4/34

In: 384.779 $\pm$ 0.085  $\chi^2$ /NDF:2657114.6/22

Out: 388.772 $\pm$ 0.084  $\chi^2$ /NDF:2681622.0/24

All: 386.794 $\pm$ 0.060  $\chi^2$ /NDF: 5339857.0/47

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 352.927 $\pm$ 137.298  $\chi^2/\text{NDF}$ : 8.5/16

Left Out: 53.579 $\pm$ 133.192  $\chi^2/\text{NDF}$ : 8.0/6

Right Out: 37.982 $\pm$ 139.023  $\chi^2/\text{NDF}$ : 16.9/17

Left In: -231.617 $\pm$ 142.684  $\chi^2/\text{NDF}$ : 4.5/5

Left: -79.219 $\pm$ 97.364  $\chi^2/\text{NDF}$ : 14.6/12

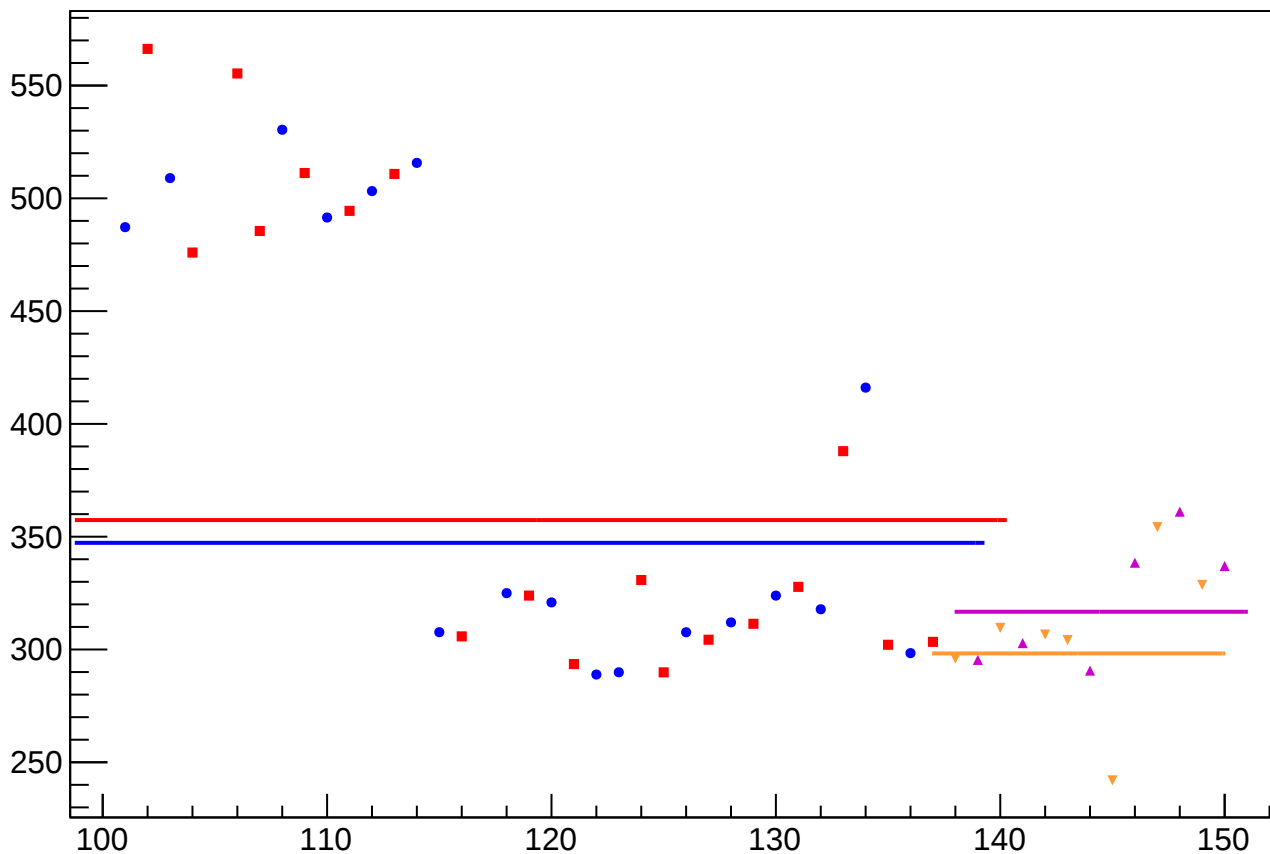
Right: 197.421 $\pm$ 97.689  $\chi^2/\text{NDF}$ : 28.1/34

In: 71.895 $\pm$ 98.933  $\chi^2/\text{NDF}$ : 21.7/22

Out: 46.114 $\pm$ 96.177  $\chi^2/\text{NDF}$ : 24.9/24

All: 58.640 $\pm$ 68.961  $\chi^2/\text{NDF}$ : 46.7/47

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 347.280+/-0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 298.250+/-0.094  $\chi^2/\text{NDF}$ :139195.4/6

Right Out: 357.365+/-0.098  $\chi^2/\text{NDF}$ : 759938.5/17

Left In: 316.729+/-0.101  $\chi^2/\text{NDF}$ :62760.4/5

Left: 306.854+/-0.069  $\chi^2/\text{NDF}$ : 219881.4/12

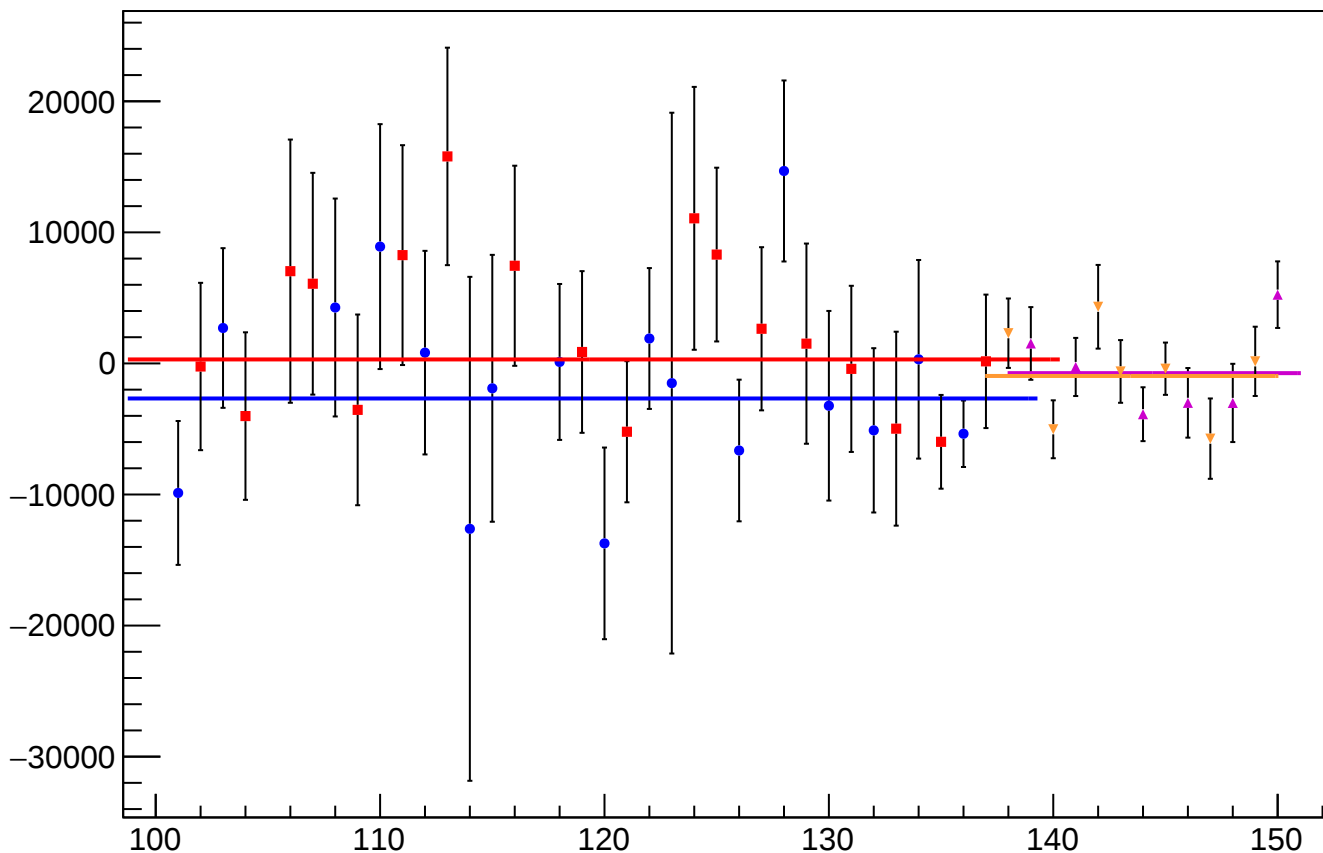
Right: 352.259+/-0.069  $\chi^2/\text{NDF}$ : 1384173.3/34

In: 332.592+/-0.070  $\chi^2/\text{NDF}$ :729276.9/22

Out: 326.541+/-0.068  $\chi^2/\text{NDF}$ :1087686.3/24

All: 329.481+/-0.049  $\chi^2/\text{NDF}$ : 1820808.6/47

asym\_sam2\_correction\_mean vs Slug, Sign Corrected



Right In: -2674.025+/-1456.188  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -956.474+/-944.353  $\chi^2/\text{NDF}$ : 10.3/6

Right Out: 304.817+/-1517.834  $\chi^2/\text{NDF}$ : 14.4/17

Left In: -740.638+/-1010.533  $\chi^2/\text{NDF}$ : 9.9/5

Left: -855.855+/-689.969  $\chi^2/\text{NDF}$ : 20.3/12

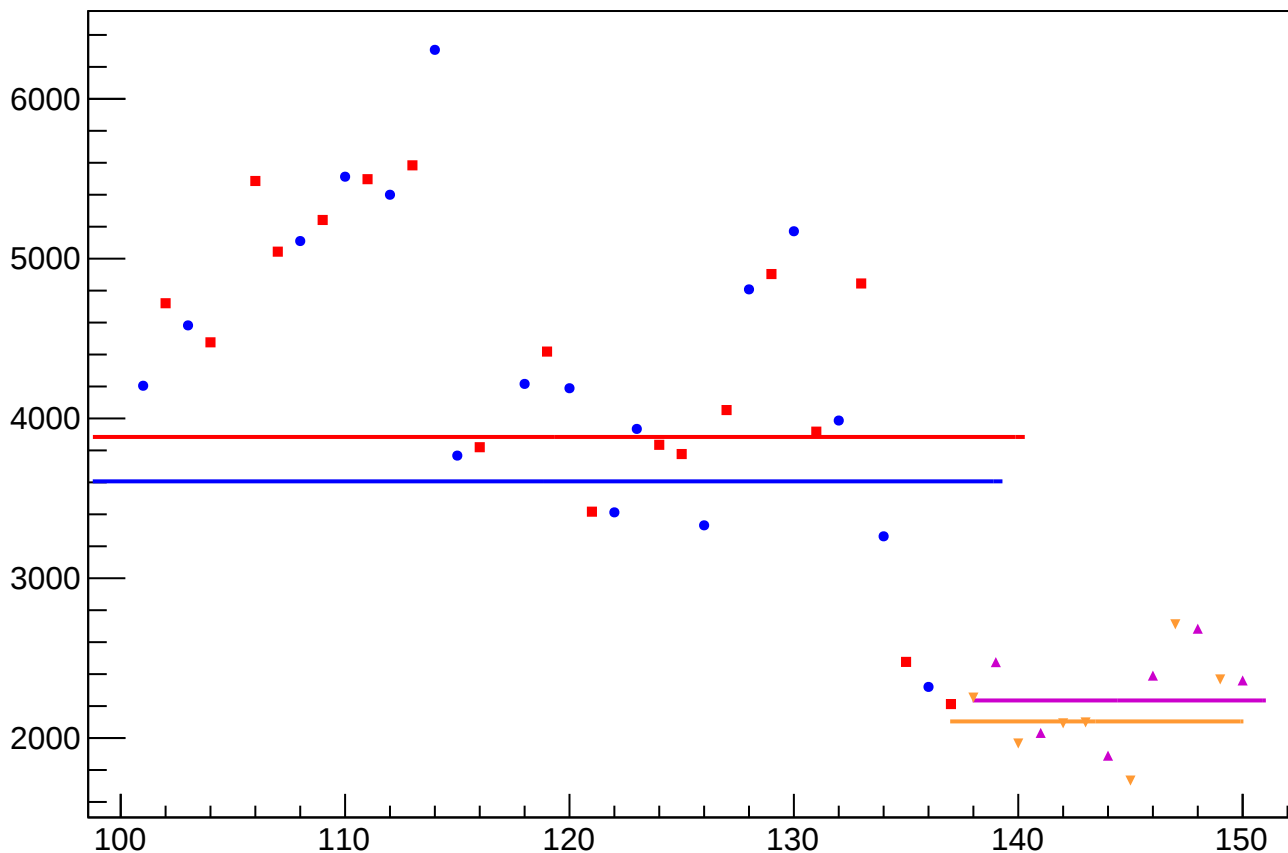
Right: -1246.323+/-1050.798  $\chi^2/\text{NDF}$ : 33.1/34

In: -1369.074+/-830.211  $\chi^2/\text{NDF}$ : 27.8/22

Out: -604.486+/-801.827  $\chi^2/\text{NDF}$ : 25.2/24

All: -973.486+/-576.751  $\chi^2/\text{NDF}$ : 53.5/47

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



Right In: 3606.359 $\pm$ 1.030  $\chi^2$ /NDF: 1092516.6/16

Left Out: 2103.972 $\pm$ 0.668  $\chi^2$ /NDF:181509.7/6

Right Out: 3884.203 $\pm$ 1.073  $\chi^2$ /NDF: 994574.5/17

Left In: 2235.211 $\pm$ 0.715  $\chi^2$ /NDF:145253.9/5

Left: 2165.154 $\pm$ 0.488  $\chi^2$ /NDF: 344770.8/12

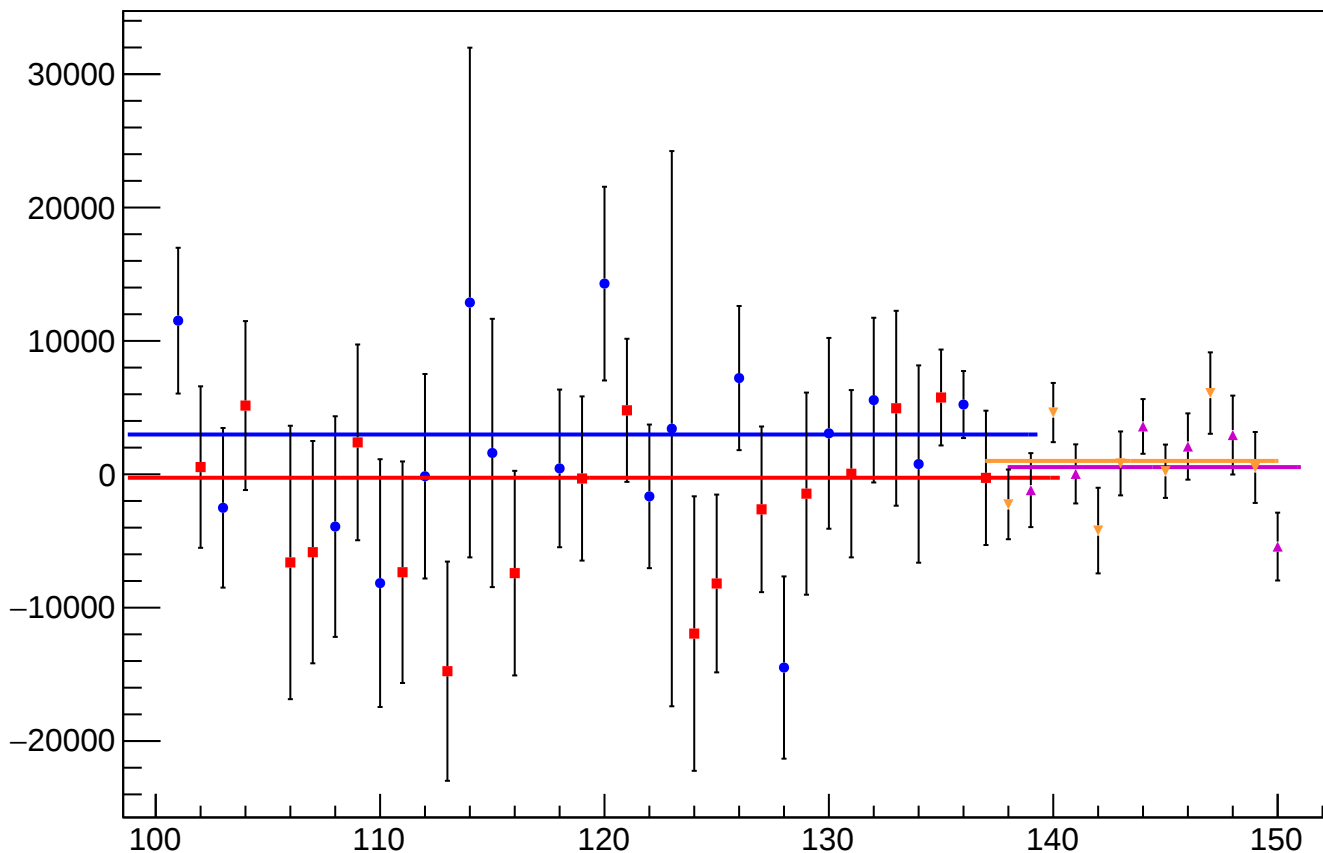
Right: 3739.524 $\pm$ 0.743  $\chi^2$ /NDF: 2121988.0/34

In: 2680.894 $\pm$ 0.587  $\chi^2$ /NDF:2434620.0/22

Out: 2600.781 $\pm$ 0.567  $\chi^2$ /NDF:3159562.3/24

All: 2639.445 $\pm$ 0.408  $\chi^2$ /NDF: 5603817.9/47

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2983.609+/-1443.630  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1003.630+/-945.053  $\chi^2/\text{NDF}$ : 9.8/6

Right Out: -259.721+/-1510.344  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 538.887+/-998.810  $\chi^2/\text{NDF}$ : 9.2/5

Left: 784.101+/-686.471  $\chi^2/\text{NDF}$ : 19.1/12

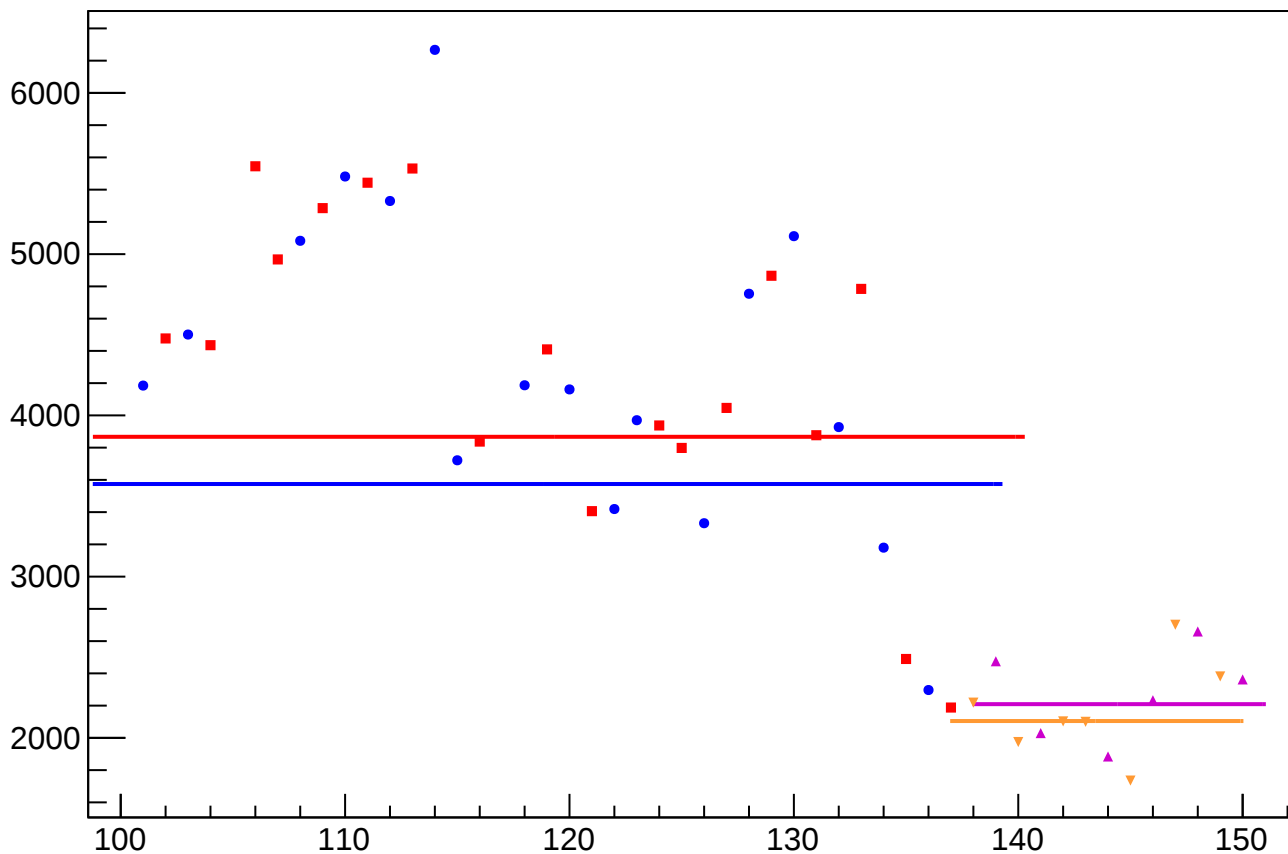
Right: 1435.156+/-1043.589  $\chi^2/\text{NDF}$ : 33.3/34

In: 1330.306+/-821.380  $\chi^2/\text{NDF}$ : 28.6/22

Out: 648.168+/-801.144  $\chi^2/\text{NDF}$ : 23.8/24

All: 980.731+/-573.515  $\chi^2/\text{NDF}$ : 52.8/47

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3574.362+/-1.021  $\chi^2/\text{NDF}$ : 1091350.4/16

Left Out: 2104.420+/-0.668  $\chi^2/\text{NDF}$ : 177124.0/6

Right Out: 3867.232+/-1.068  $\chi^2/\text{NDF}$ : 968137.9/17

Left In: 2209.129+/-0.706  $\chi^2/\text{NDF}$ : 135522.5/5

Left: 2153.881+/-0.485  $\chi^2/\text{NDF}$ : 324244.1/12

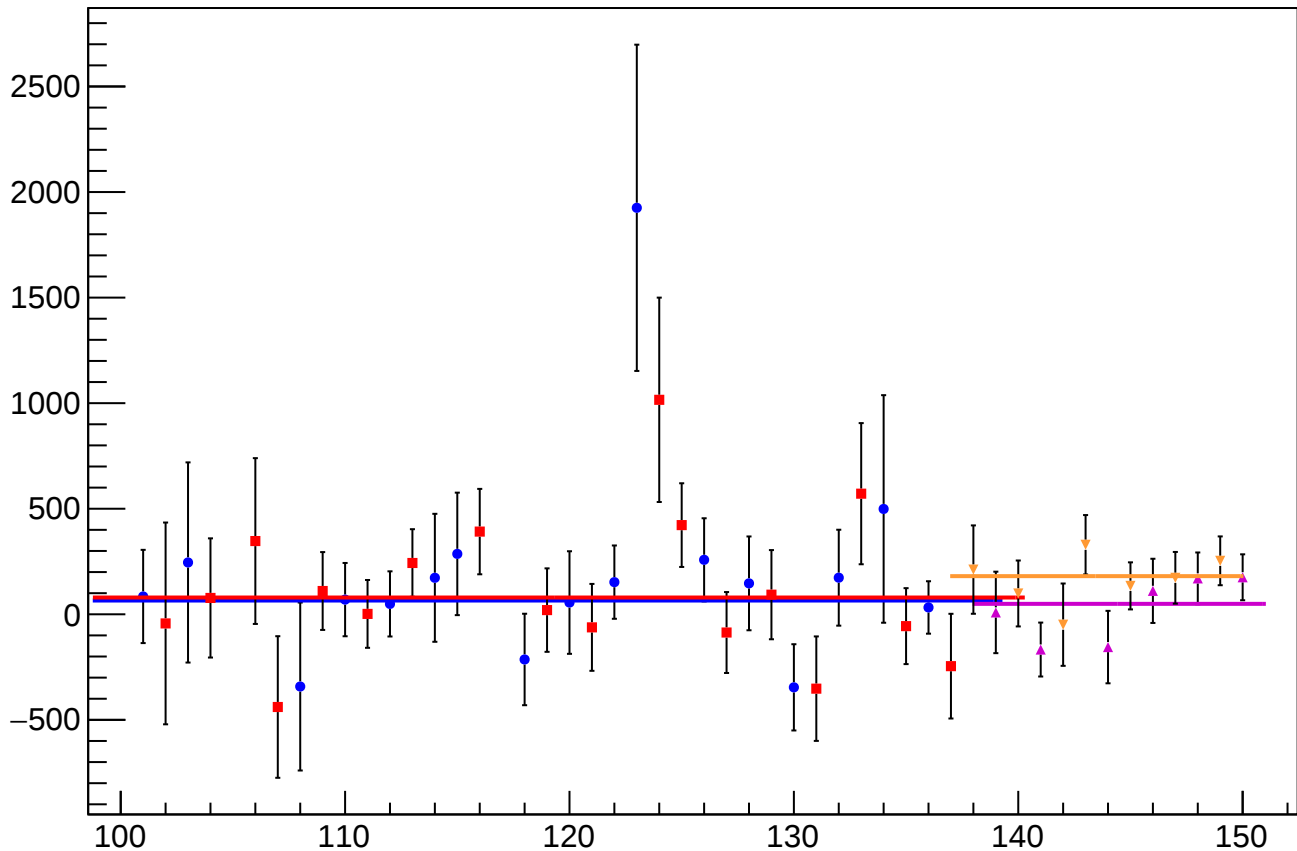
Right: 3714.186+/-0.738  $\chi^2/\text{NDF}$ : 2098786.6/34

In: 2651.090+/-0.581  $\chi^2/\text{NDF}$ : 2436509.3/22

Out: 2600.412+/-0.566  $\chi^2/\text{NDF}$ : 3103199.8/24

All: 2625.119+/-0.406  $\chi^2/\text{NDF}$ : 5543610.8/47

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 65.225 $\pm$ 52.700  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 180.687 $\pm$ 52.508  $\chi^2/\text{NDF}$ : 3.4/6

Right Out: 79.473 $\pm$ 52.344  $\chi^2/\text{NDF}$ : 22.2/17

Left In: 49.456 $\pm$ 56.227  $\chi^2/\text{NDF}$ : 6.8/5

Left: 119.554 $\pm$ 38.376  $\chi^2/\text{NDF}$ : 13.1/12

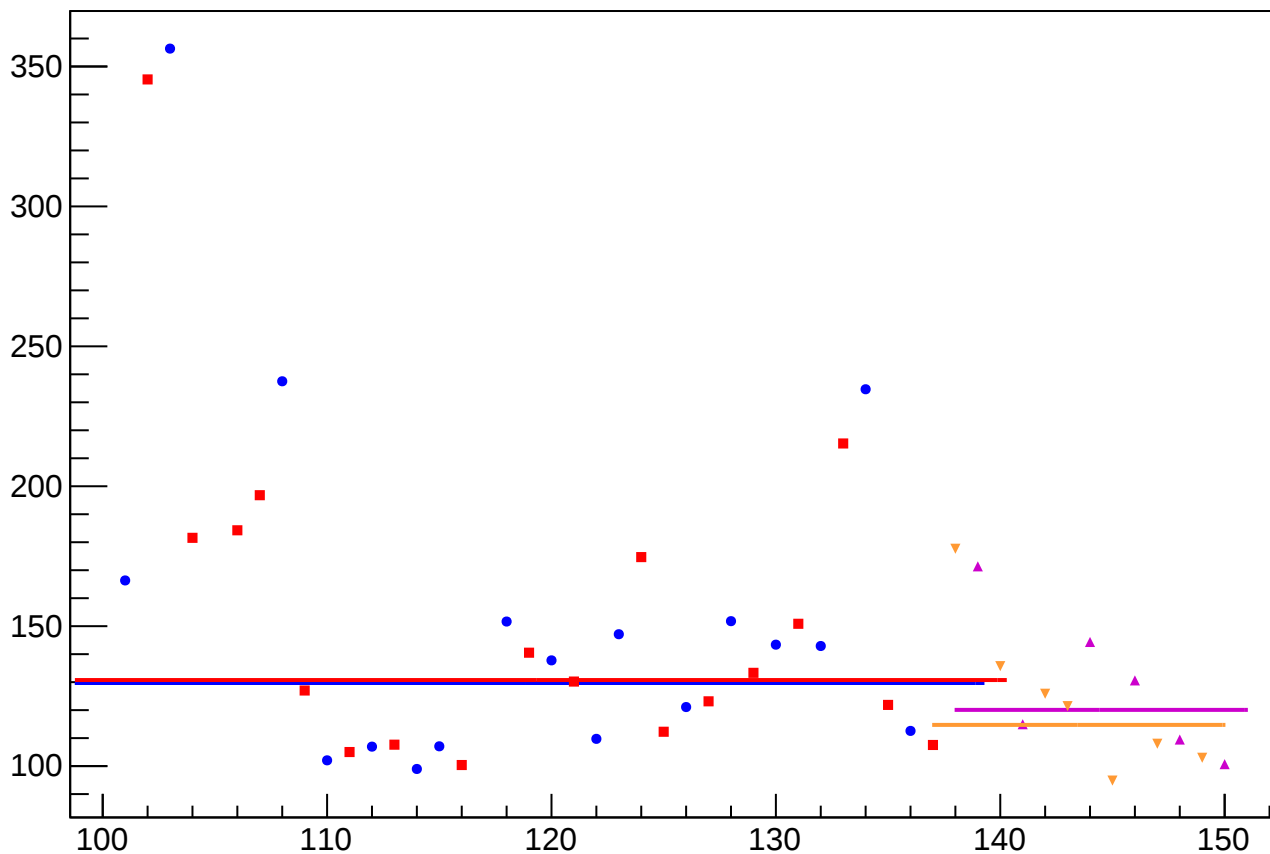
Right: 72.397 $\pm$ 37.138  $\chi^2/\text{NDF}$ : 37.9/34

In: 57.850 $\pm$ 38.451  $\chi^2/\text{NDF}$ : 22.6/22

Out: 129.921 $\pm$ 37.071  $\chi^2/\text{NDF}$ : 27.4/24

All: 95.203 $\pm$ 26.688  $\chi^2/\text{NDF}$ : 51.8/47

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 114.725 $\pm$ 0.037  $\chi^2$ /NDF: 318571.9/6

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

Left In: 120.091 $\pm$ 0.040  $\chi^2$ /NDF: 272643.9/5

Left: 117.225 $\pm$ 0.027  $\chi^2$ /NDF: 600948.1/12

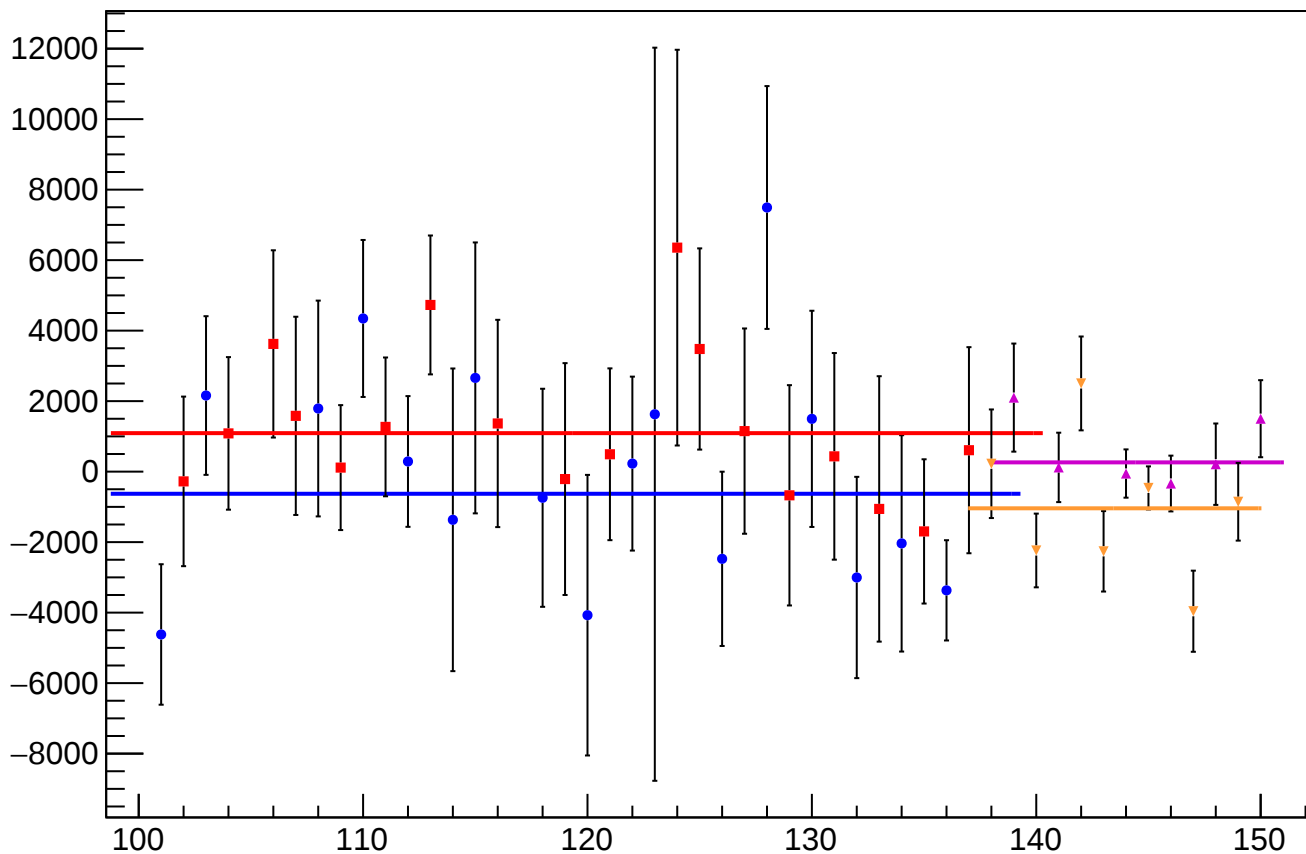
Right: 130.228 $\pm$ 0.026  $\chi^2$ /NDF: 1917619.9/34

In: 125.205 $\pm$ 0.027  $\chi^2$ /NDF: 1293396.4/22

Out: 122.763 $\pm$ 0.026  $\chi^2$ /NDF: 1339557.2/24

All: 123.939 $\pm$ 0.019  $\chi^2$ /NDF: 2637132.7/47

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



Right In: -628.175+/-621.486  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: -1040.635+/-379.987  $\chi^2/\text{NDF}$ : 17.6/6

Right Out: 1091.945+/-599.483  $\chi^2/\text{NDF}$ : 9.4/17

Left In: 262.506+/-384.235  $\chi^2/\text{NDF}$ : 3.5/5

Left: -396.309+/-270.181  $\chi^2/\text{NDF}$ : 26.9/12

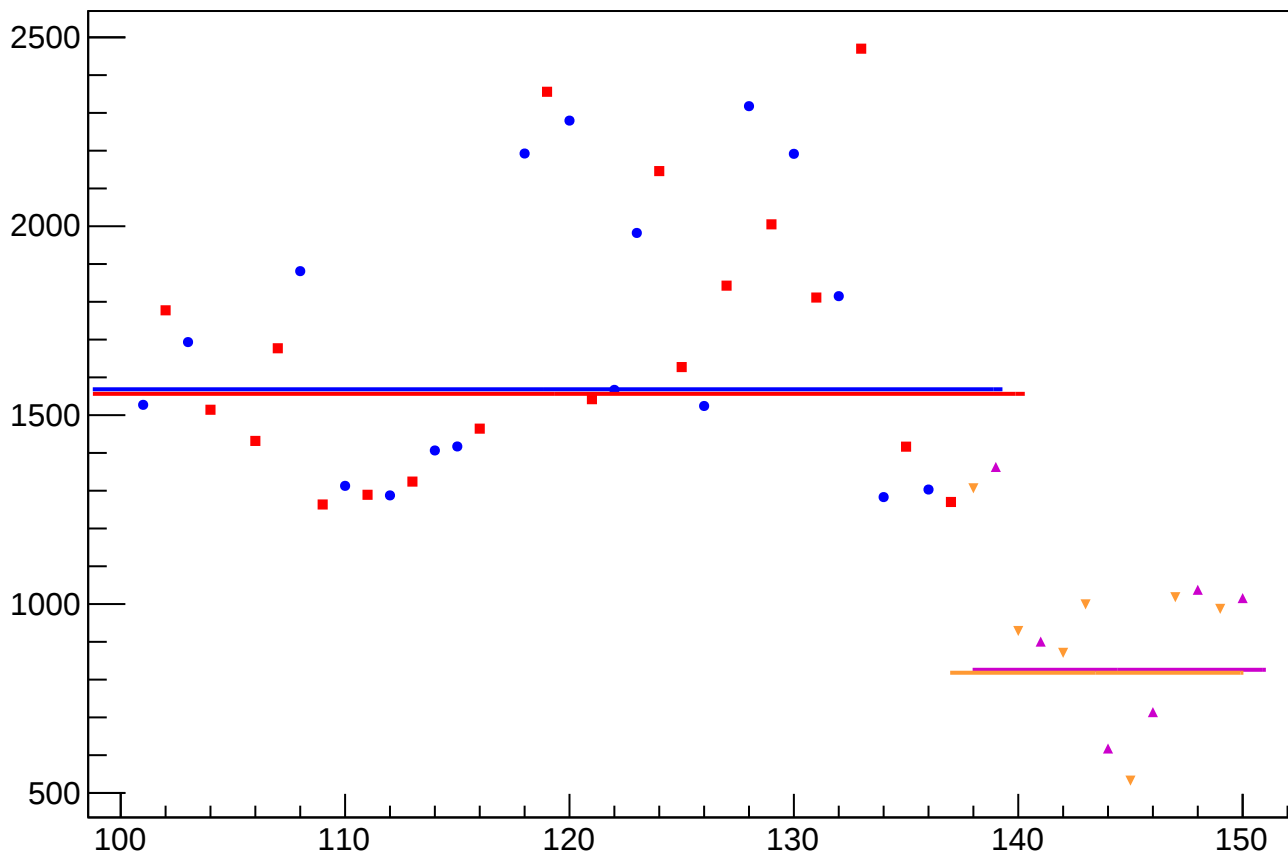
Right: 262.874+/-431.468  $\chi^2/\text{NDF}$ : 37.6/34

In: 16.202+/-326.818  $\chi^2/\text{NDF}$ : 29.3/22

Out: -429.397+/-320.944  $\chi^2/\text{NDF}$ : 36.0/24

All: -210.638+/-228.990  $\chi^2/\text{NDF}$ : 66.2/47

asym\_sam3\_correction\_rms vs Slug, Sign Corrected



Right In: 1568.480+/-0.439  $\chi^2/\text{NDF}$ : 534197.6/16

Left Out: 818.212+/-0.269  $\chi^2/\text{NDF}$ : 821095.2/6

Right Out: 1556.423+/-0.424  $\chi^2/\text{NDF}$ : 510453.6/17

Left In: 826.015+/-0.272  $\chi^2/\text{NDF}$ : 609434.5/5

Left: 822.070+/-0.191  $\chi^2/\text{NDF}$ : 1430946.7/12

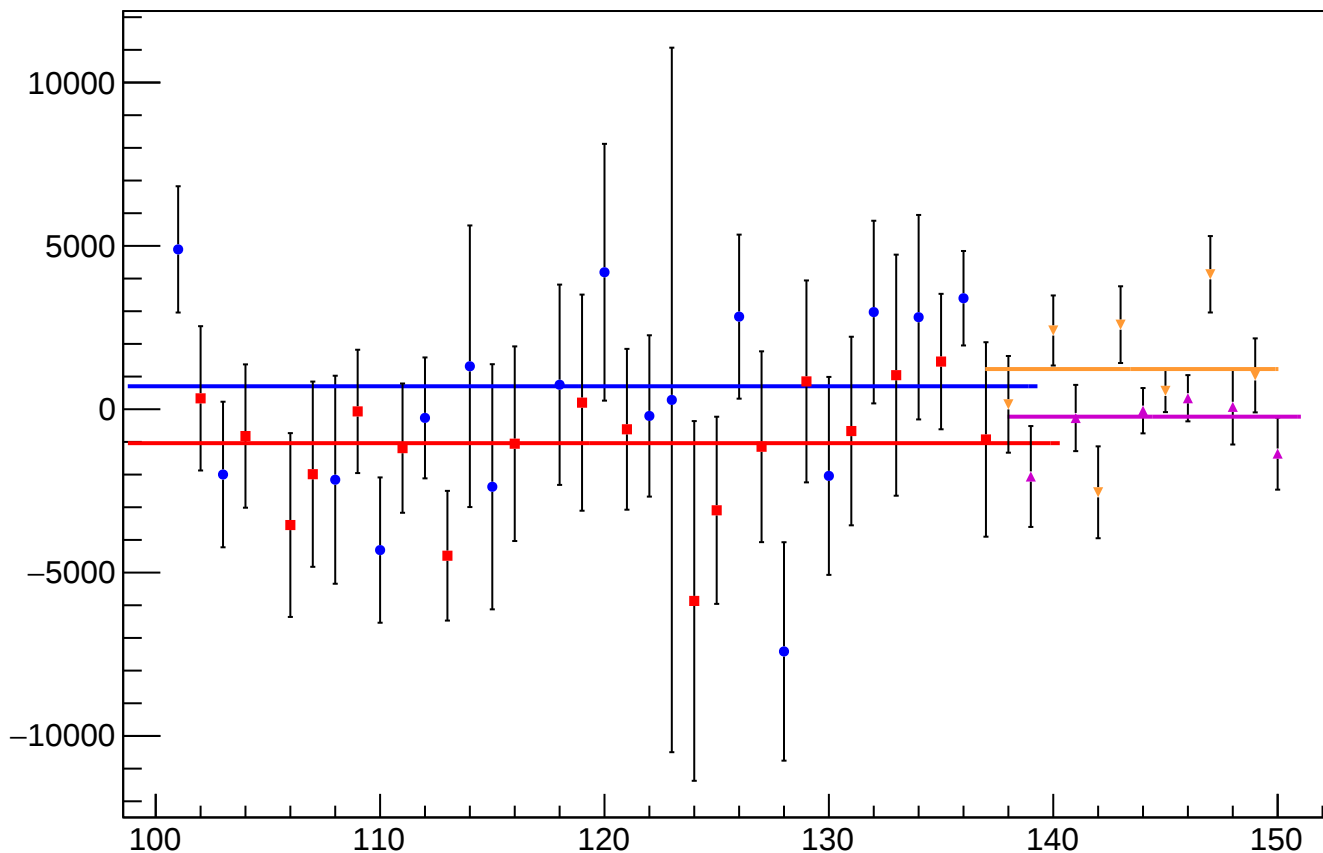
Right: 1562.235+/-0.305  $\chi^2/\text{NDF}$ : 1045041.2/34

In: 1031.332+/-0.231  $\chi^2/\text{NDF}$ : 3208713.0/22

Out: 1029.797+/-0.227  $\chi^2/\text{NDF}$ : 3495063.2/24

All: 1030.551+/-0.162  $\chi^2/\text{NDF}$ : 6703798.6/47

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 703.057 $\pm$ 620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1230.204 $\pm$ 394.246  $\chi^2/\text{NDF}$ : 17.5/6

Right Out: -1038.423 $\pm$ 604.250  $\chi^2/\text{NDF}$ : 8.2/17

Left In: -227.768 $\pm$ 376.878  $\chi^2/\text{NDF}$ : 3.2/5

Left: 468.396 $\pm$ 272.426  $\chi^2/\text{NDF}$ : 27.9/12

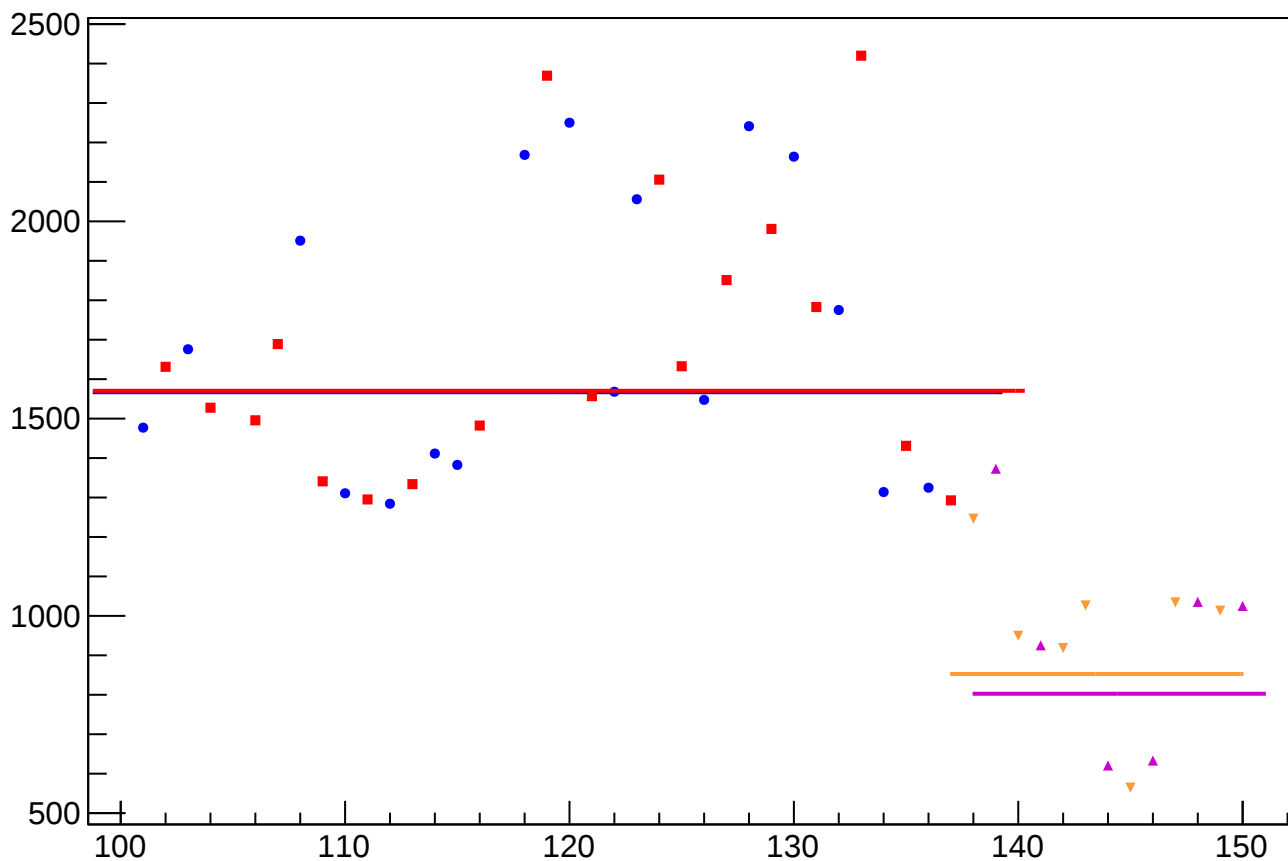
Right: -190.951 $\pm$ 432.940  $\chi^2/\text{NDF}$ : 38.2/34

In: 23.010 $\pm$ 322.133  $\chi^2/\text{NDF}$ : 30.8/22

Out: 552.817 $\pm$ 330.182  $\chi^2/\text{NDF}$ : 35.6/24

All: 281.378 $\pm$ 230.576  $\chi^2/\text{NDF}$ : 67.8/47

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 852.642 $\pm$ 0.279  $\chi^2$ /NDF: 686940.3/6

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

Left In: 802.636 $\pm$ 0.266  $\chi^2$ /NDF: 717170.6/5

Left: 826.513 $\pm$ 0.193  $\chi^2$ /NDF: 1420923.6/12

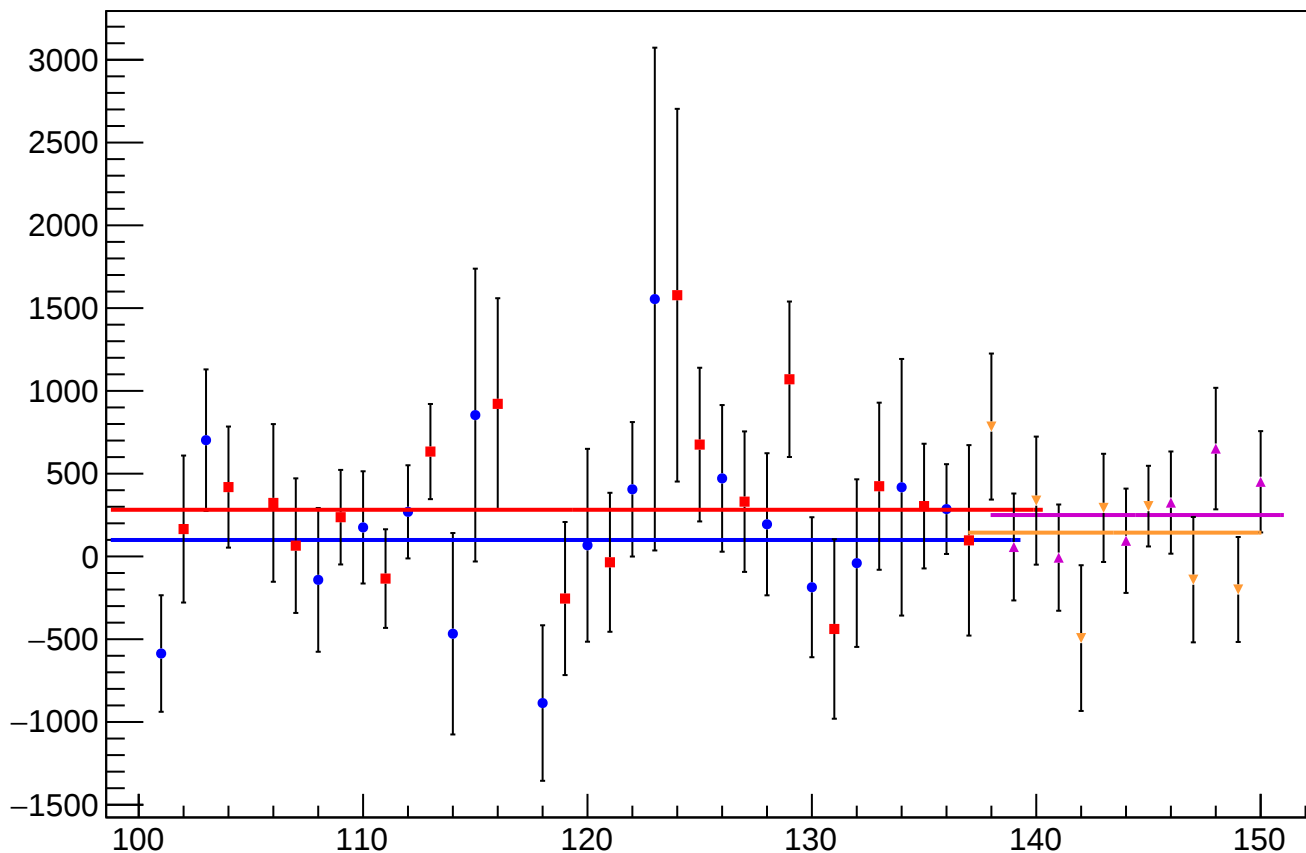
Right: 1568.791 $\pm$ 0.306  $\chi^2$ /NDF: 939142.0/34

In: 1008.550 $\pm$ 0.228  $\chi^2$ /NDF: 3433067.4/22

Out: 1067.001 $\pm$ 0.233  $\chi^2$ /NDF: 3106384.1/24

All: 1037.054 $\pm$ 0.163  $\chi^2$ /NDF: 6571563.1/47

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 99.387 $\pm$ 103.463  $\chi^2/\text{NDF}$ : 15.9/16

Left Out: 143.728 $\pm$ 128.964  $\chi^2/\text{NDF}$ : 6.8/6

Right Out: 281.830 $\pm$ 97.880  $\chi^2/\text{NDF}$ : 13.7/17

Left In: 250.104 $\pm$ 131.332  $\chi^2/\text{NDF}$ : 2.9/5

Left: 195.948 $\pm$ 92.017  $\chi^2/\text{NDF}$ : 10.1/12

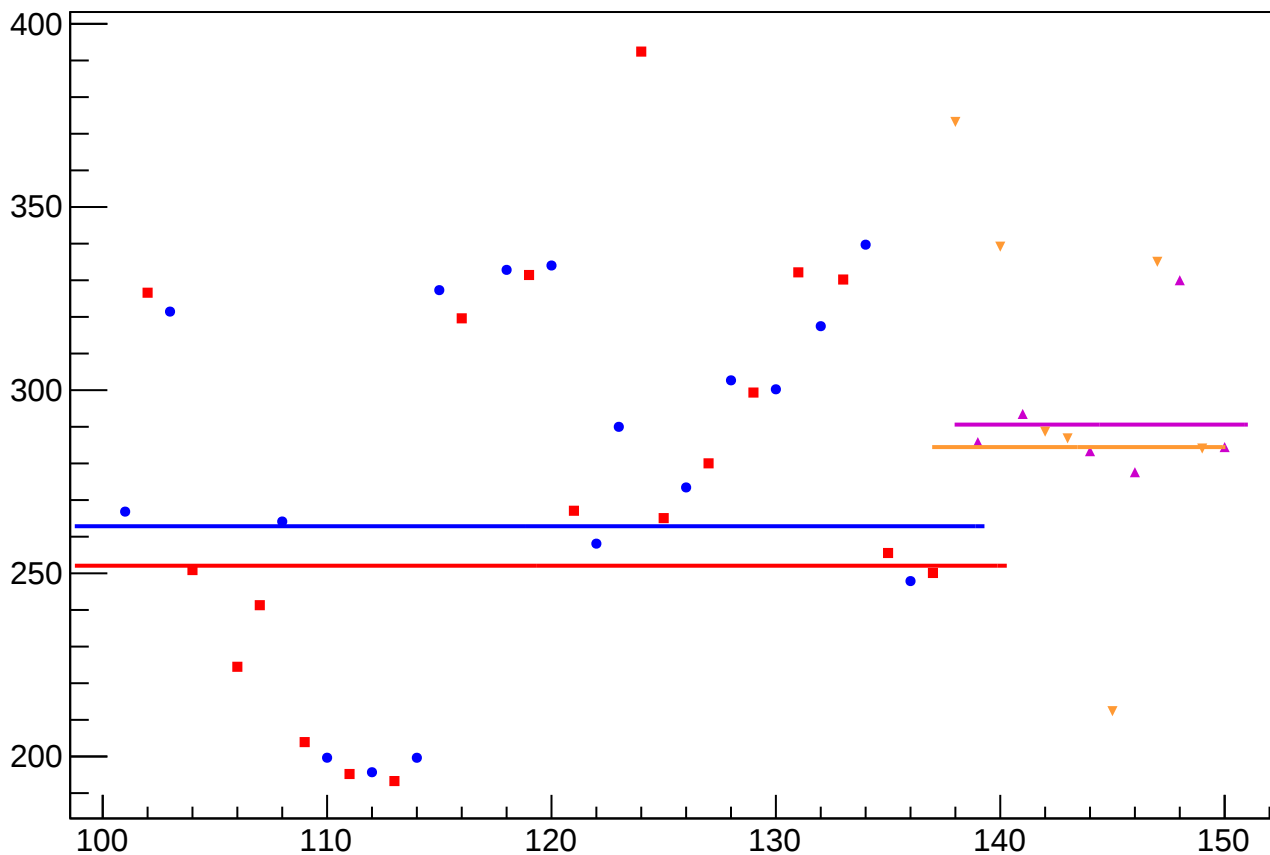
Right: 195.664 $\pm$ 71.104  $\chi^2/\text{NDF}$ : 31.3/34

In: 157.105 $\pm$ 81.273  $\chi^2/\text{NDF}$ : 19.7/22

Out: 231.354 $\pm$ 77.967  $\chi^2/\text{NDF}$ : 21.3/24

All: 195.770 $\pm$ 56.263  $\chi^2/\text{NDF}$ : 41.4/47

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 262.856+/-0.073  $\chi^2/\text{NDF}$ : 411698.3/16

Left Out: 284.461+/-0.091  $\chi^2/\text{NDF}$ :332157.5/6

Right Out: 252.079+/-0.069  $\chi^2/\text{NDF}$ : 515150.4/17

Left In: 290.600+/-0.093  $\chi^2/\text{NDF}$ :29072.0/5

Left: 287.474+/-0.065  $\chi^2/\text{NDF}$ : 363454.0/12

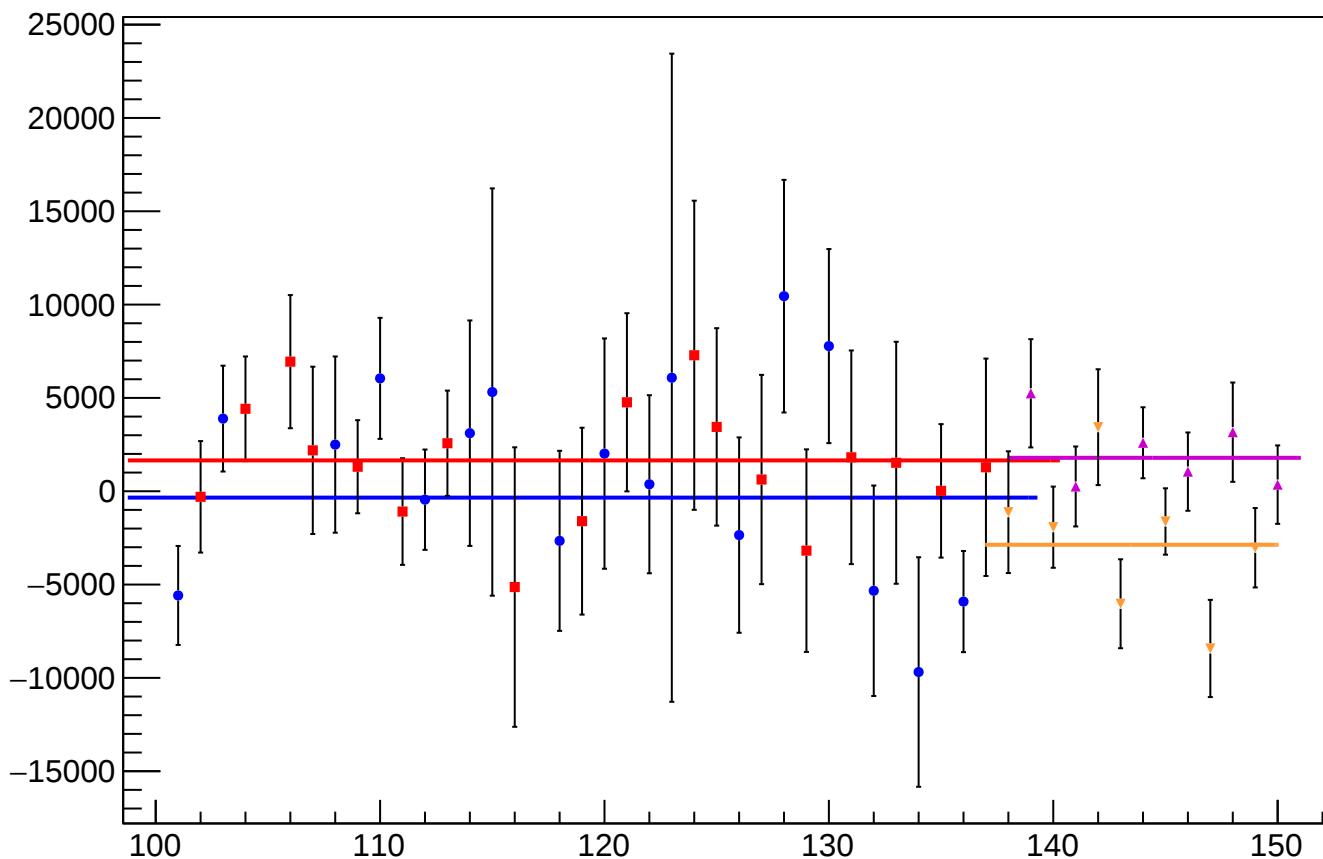
Right: 257.169+/-0.050  $\chi^2/\text{NDF}$ : 938300.0/34

In: 273.481+/-0.057  $\chi^2/\text{NDF}$ :495840.2/22

Out: 263.915+/-0.055  $\chi^2/\text{NDF}$ :927313.3/24

All: 268.499+/-0.040  $\chi^2/\text{NDF}$ : 1437582.6/47

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}: 24.4/16$

Left Out:  $-2867.829 \pm 887.433$   $\chi^2/\text{NDF}: 11.4/6$

Right Out:  $1651.954 \pm 929.858$   $\chi^2/\text{NDF}: 7.9/17$

Left In:  $1790.591 \pm 909.697$   $\chi^2/\text{NDF}: 3.0/5$

Left:  $-596.322 \pm 635.235$   $\chi^2/\text{NDF}: 27.8/12$

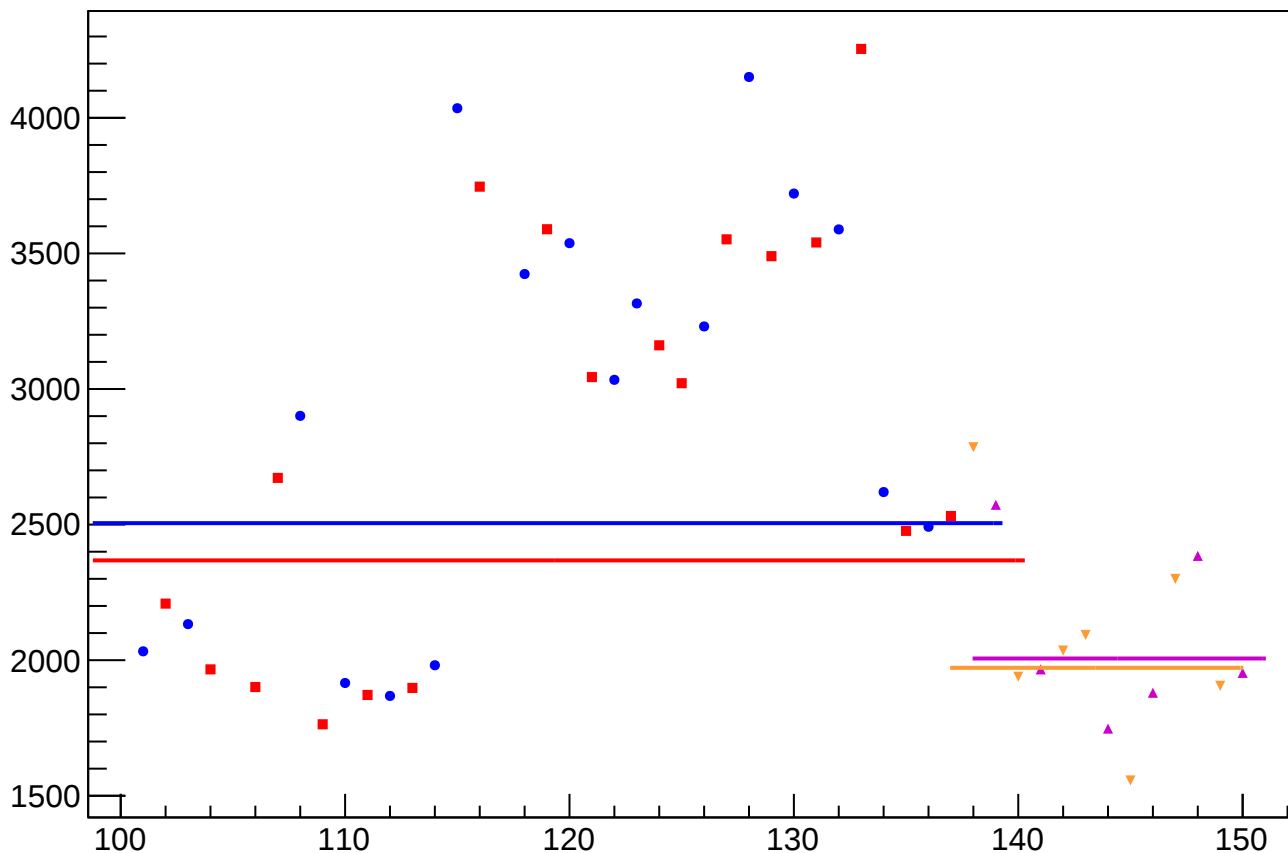
Right:  $732.150 \pm 682.415$   $\chi^2/\text{NDF}: 34.5/34$

In:  $830.005 \pm 674.325$   $\chi^2/\text{NDF}: 29.9/22$

Out:  $-713.393 \pm 641.984$   $\chi^2/\text{NDF}: 31.7/24$

All:  $20.408 \pm 464.964$   $\chi^2/\text{NDF}: 64.3/47$

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 1971.804+/-0.628  $\chi^2/\text{NDF}$ : 273618.4/6

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

Left In: 2006.194+/-0.643  $\chi^2/\text{NDF}$ : 163079.3/5

Left: 1988.573+/-0.449  $\chi^2/\text{NDF}$ : 438162.3/12

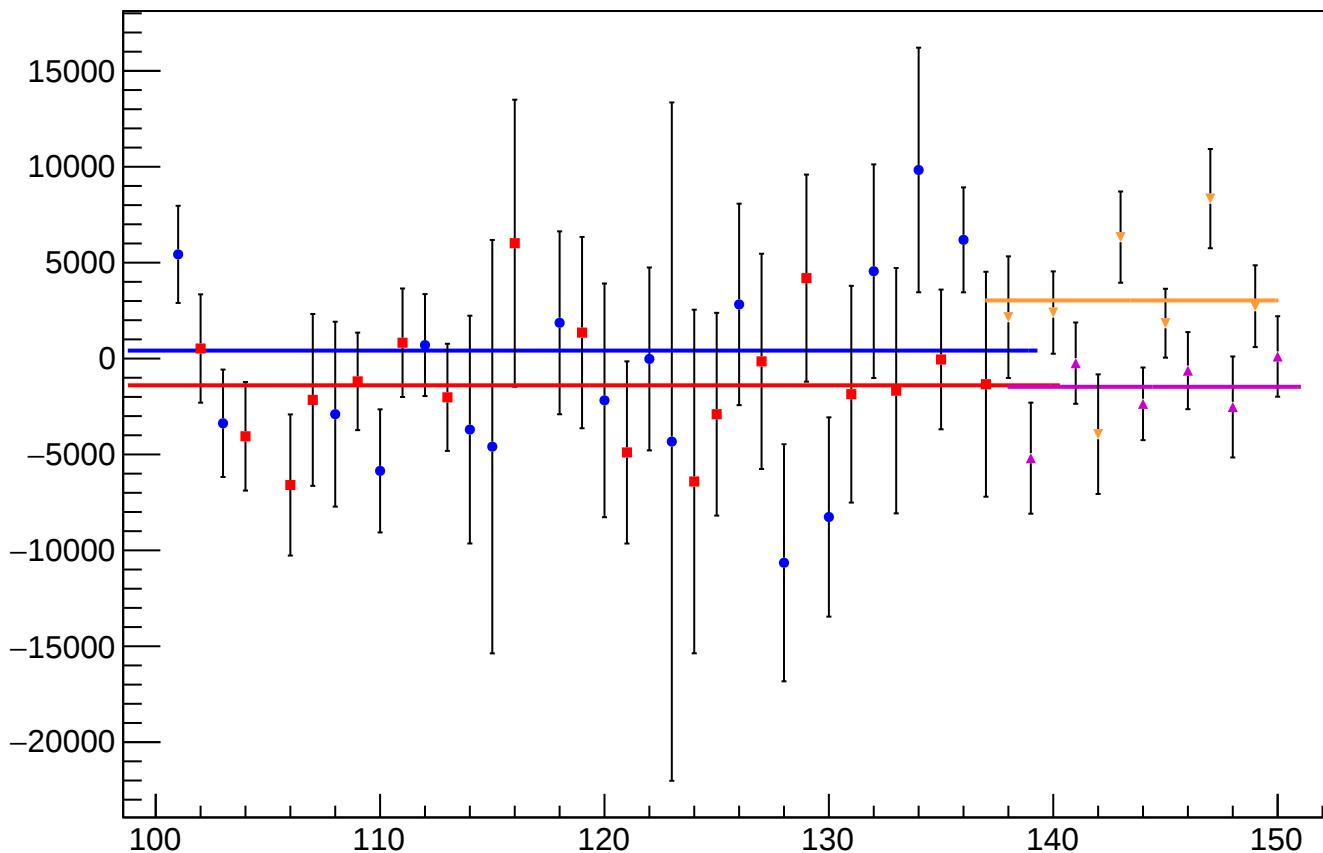
Right: 2431.366+/-0.483  $\chi^2/\text{NDF}$ : 1915141.0/34

In: 2231.069+/-0.477  $\chi^2/\text{NDF}$ : 1298479.0/22

Out: 2160.659+/-0.454  $\chi^2/\text{NDF}$ : 1494519.1/24

All: 2194.135+/-0.329  $\chi^2/\text{NDF}$ : 2804435.9/47

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 415.549 $\pm$ 994.913  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: 3031.607 $\pm$ 885.356  $\chi^2/\text{NDF}$ : 11.8/6

Right Out: -1394.660 $\pm$ 928.996  $\chi^2/\text{NDF}$ : 7.5/17

Left In: -1473.029 $\pm$ 898.117  $\chi^2/\text{NDF}$ : 3.1/5

Left: 811.519 $\pm$ 630.504  $\chi^2/\text{NDF}$ : 27.6/12

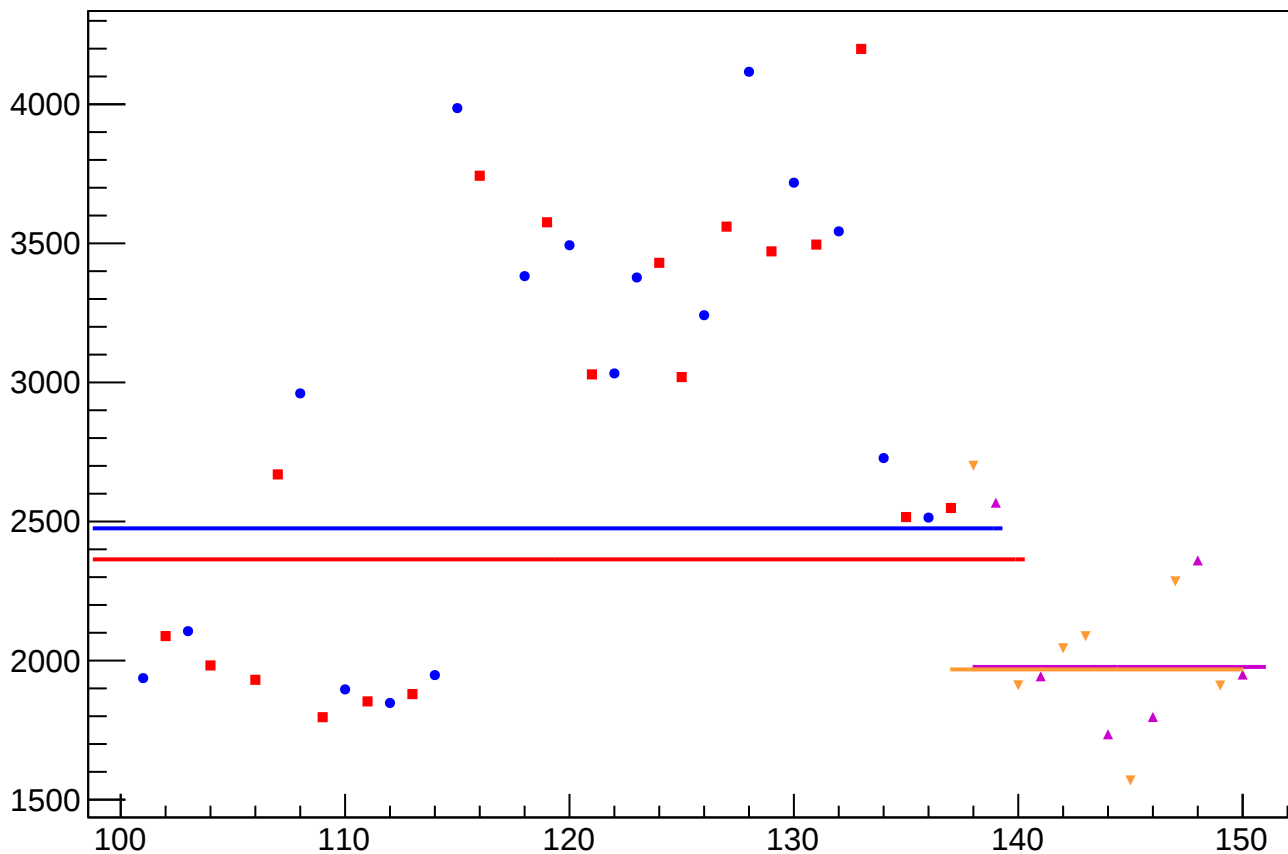
Right: -551.504 $\pm$ 679.008  $\chi^2/\text{NDF}$ : 33.8/34

In: -625.057 $\pm$ 666.666  $\chi^2/\text{NDF}$ : 29.6/22

Out: 924.877 $\pm$ 640.914  $\chi^2/\text{NDF}$ : 31.2/24

All: 180.424 $\pm$ 462.030  $\chi^2/\text{NDF}$ : 63.6/47

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2475.435+/-0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 1968.229+/-0.626  $\chi^2/\text{NDF}$ : 244602.0/6

Right Out: 2363.907+/-0.657  $\chi^2/\text{NDF}$ : 1026875.6/17

Left In: 1977.207+/-0.635  $\chi^2/\text{NDF}$ : 175073.8/5

Left: 1972.654+/-0.446  $\chi^2/\text{NDF}$ : 419777.2/12

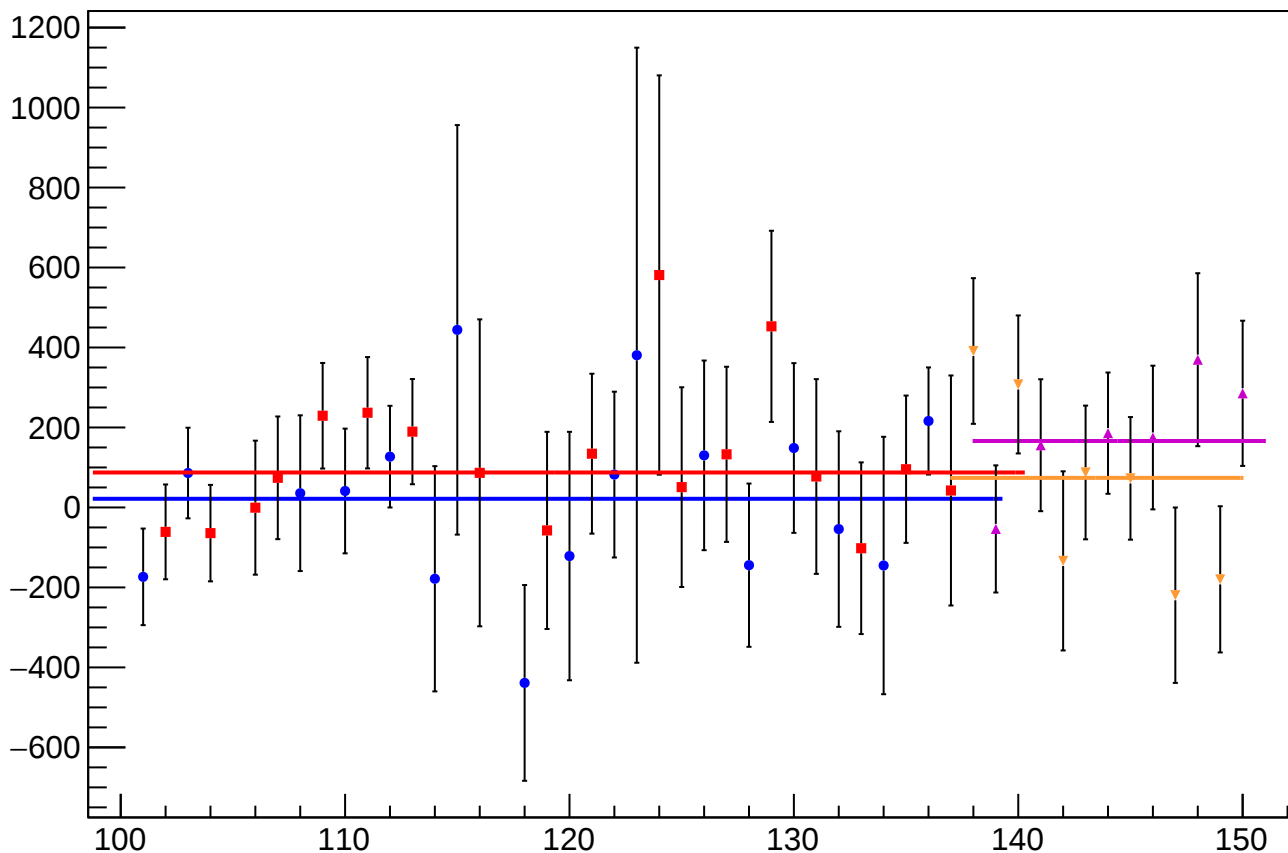
Right: 2415.854+/-0.480  $\chi^2/\text{NDF}$ : 1953375.1/34

In: 2200.911+/-0.471  $\chi^2/\text{NDF}$ : 1364501.8/22

Out: 2156.556+/-0.453  $\chi^2/\text{NDF}$ : 1461607.0/24

All: 2177.861+/-0.327  $\chi^2/\text{NDF}$ : 2830709.7/47

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 21.649 $\pm$ 45.157  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 73.990 $\pm$ 68.567  $\chi^2/\text{NDF}$ : 9.4/6

Right Out: 87.439 $\pm$ 41.826  $\chi^2/\text{NDF}$ : 10.9/17

Left In: 166.168 $\pm$ 70.268  $\chi^2/\text{NDF}$ : 3.3/5

Left: 118.950 $\pm$ 49.075  $\chi^2/\text{NDF}$ : 13.6/12

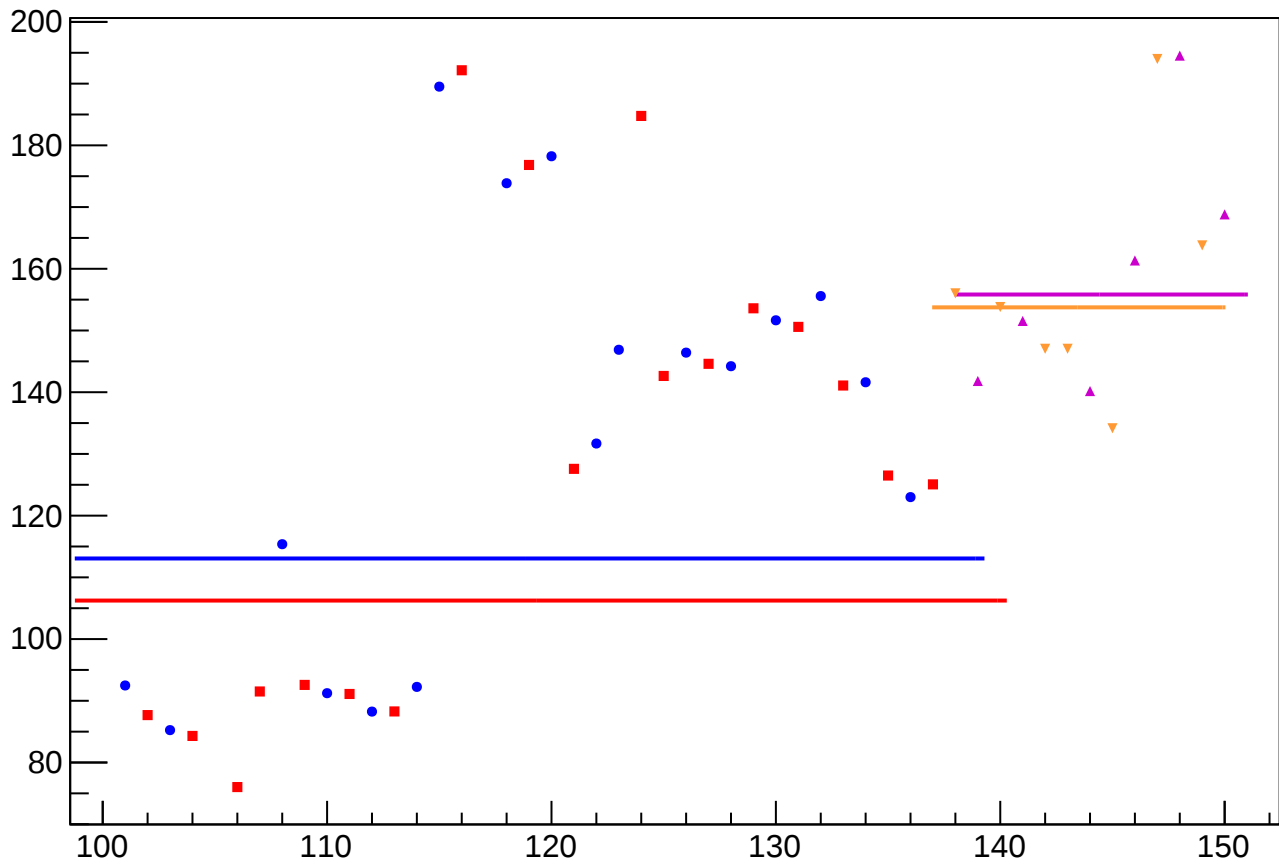
Right: 57.059 $\pm$ 30.686  $\chi^2/\text{NDF}$ : 24.7/34

In: 63.888 $\pm$ 37.989  $\chi^2/\text{NDF}$ : 18.8/22

Out: 83.792 $\pm$ 35.707  $\chi^2/\text{NDF}$ : 20.4/24

All: 74.455 $\pm$ 26.018  $\chi^2/\text{NDF}$ : 39.4/47

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 113.059+/-0.032  $\chi^2/\text{NDF}$ : 820795.9/16

Left Out: 153.749+/-0.048  $\chi^2/\text{NDF}$ :111398.5/6

Right Out: 106.240+/-0.030  $\chi^2/\text{NDF}$ : 951702.9/17

Left In: 155.831+/-0.050  $\chi^2/\text{NDF}$ :114362.2/5

Left: 154.764+/-0.035  $\chi^2/\text{NDF}$ : 226660.1/12

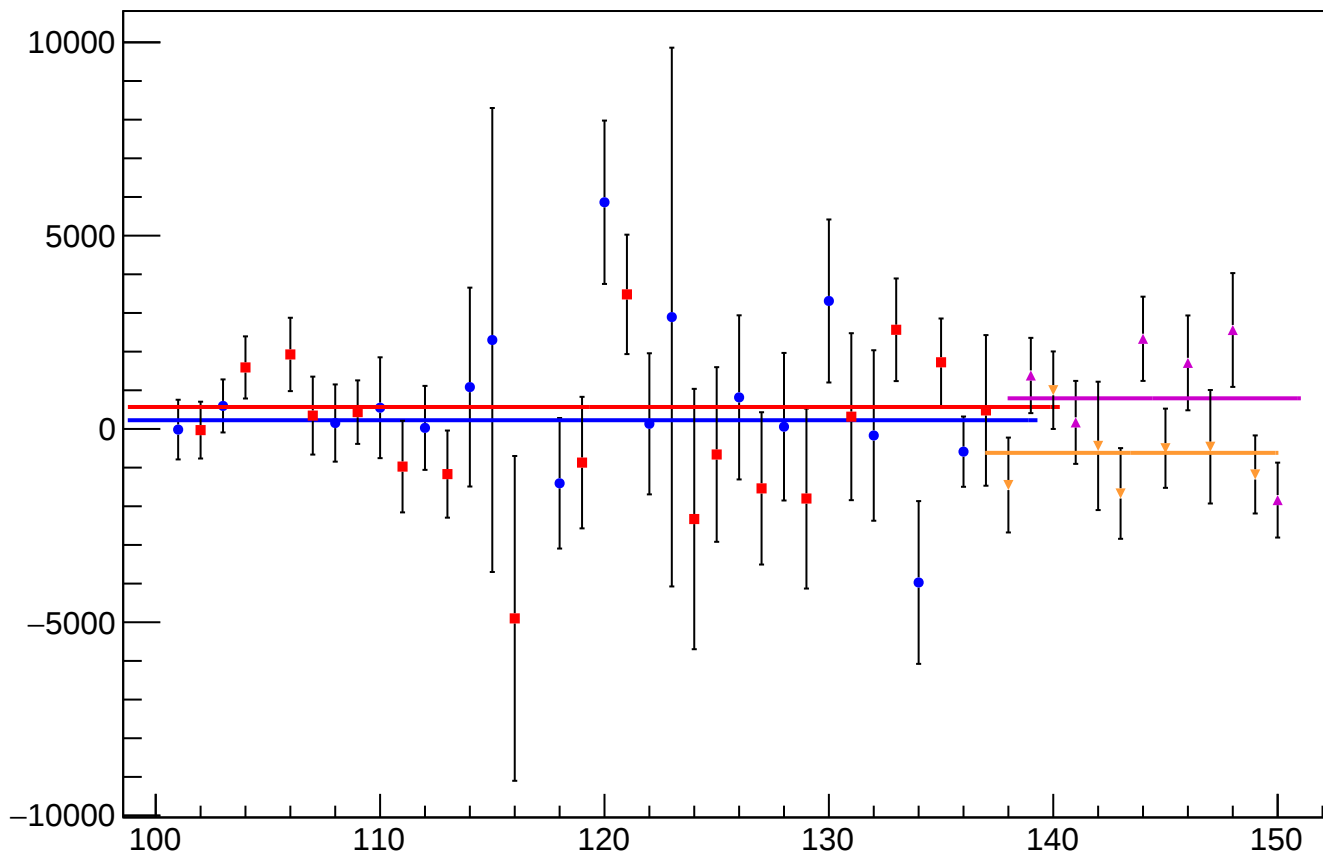
Right: 109.389+/-0.022  $\chi^2/\text{NDF}$ : 1797042.6/34

In: 125.560+/-0.027  $\chi^2/\text{NDF}$ :1459594.0/22

Out: 119.124+/-0.025  $\chi^2/\text{NDF}$ :1762870.5/24

All: 122.143+/-0.018  $\chi^2/\text{NDF}$ : 3252939.2/47

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



Right In: 225.635 $\pm$ 321.412  $\chi^2$ /NDF: 16.0/16

Left Out: -618.288 $\pm$ 440.811  $\chi^2$ /NDF:4.2/6

Right Out: 568.109 $\pm$ 290.500  $\chi^2$ /NDF: 21.0/17

Left In: 792.398 $\pm$ 449.115  $\chi^2$ /NDF:12.1/5

Left: 73.894 $\pm$ 314.595  $\chi^2$ /NDF: 21.3/12

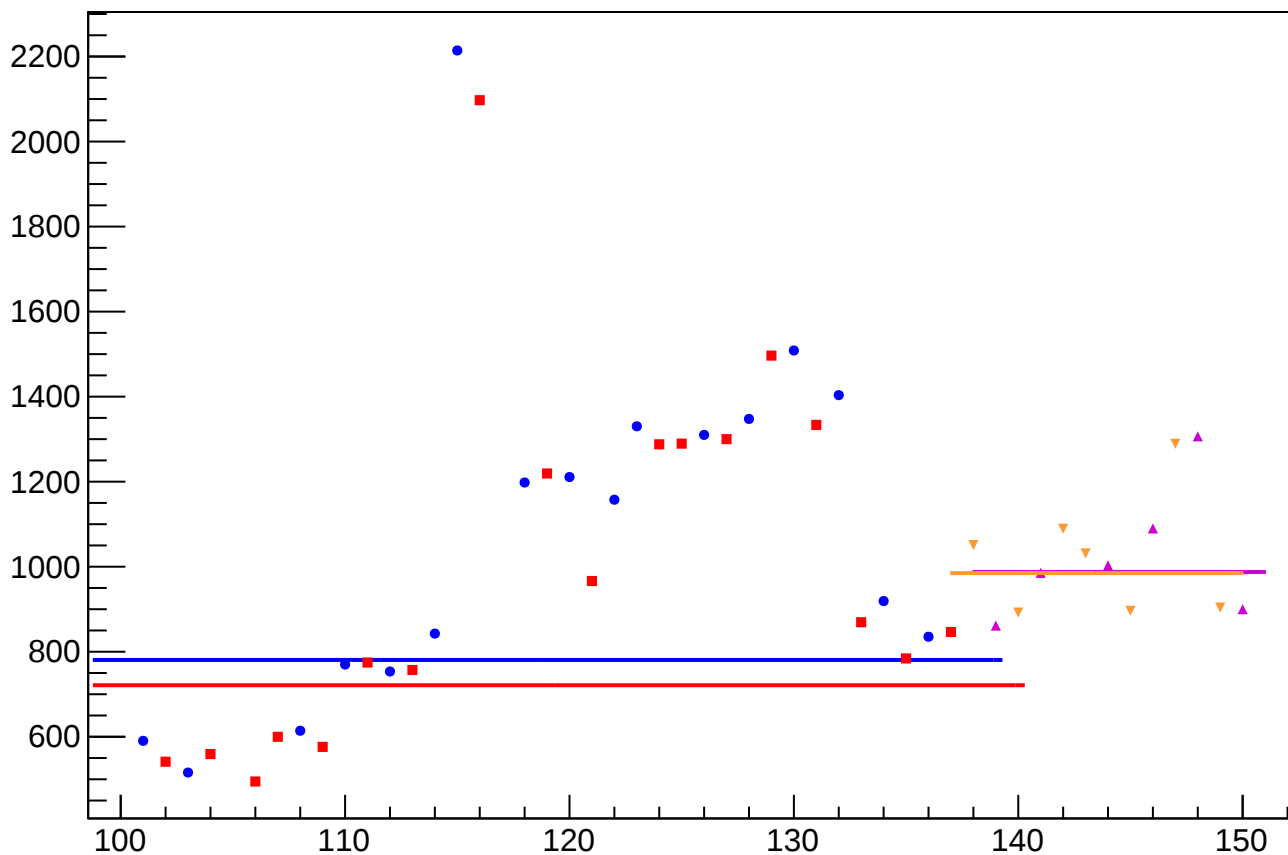
Right: 414.129 $\pm$ 215.517  $\chi^2$ /NDF: 37.6/34

In: 417.595 $\pm$ 261.374  $\chi^2$ /NDF:29.1/22

Out: 208.875 $\pm$ 242.564  $\chi^2$ /NDF:30.2/24

All: 305.455 $\pm$ 177.797  $\chi^2$ /NDF: 59.7/47

asym\_sam5\_correction\_rms vs Slug, Sign Corrected



Right In: 780.700+/-0.227  $\chi^2/\text{NDF}$ : 1609510.2/16

Left Out: 984.976+/-0.312  $\chi^2/\text{NDF}$ : 147733.5/6

Right Out: 721.264+/-0.205  $\chi^2/\text{NDF}$ : 1626627.9/17

Left In: 987.654+/-0.318  $\chi^2/\text{NDF}$ : 158158.5/5

Left: 986.290+/-0.222  $\chi^2/\text{NDF}$ : 305928.2/12

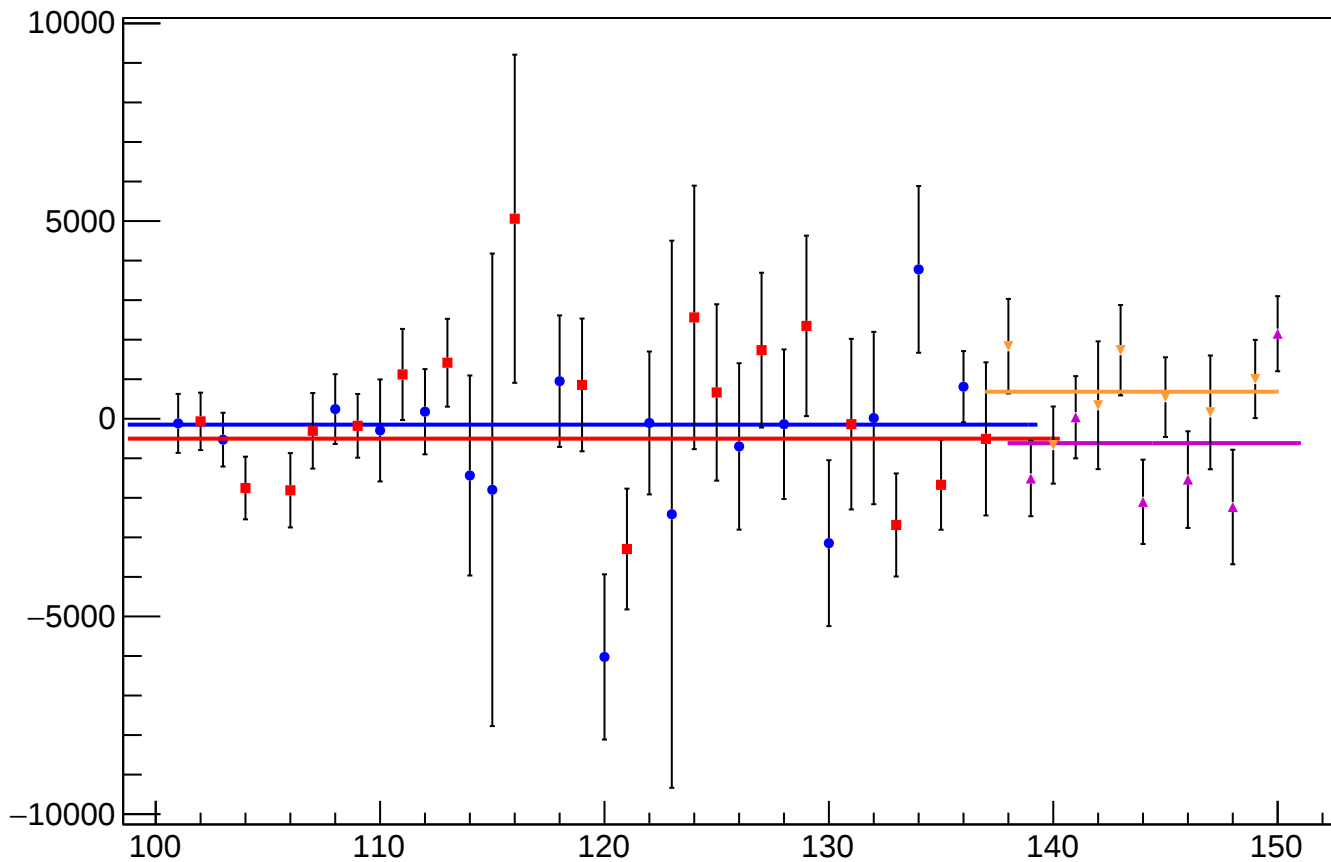
Right: 747.987+/-0.152  $\chi^2/\text{NDF}$ : 3273780.9/34

In: 850.794+/-0.185  $\chi^2/\text{NDF}$ : 2048511.3/22

Out: 801.114+/-0.172  $\chi^2/\text{NDF}$ : 2273414.2/24

All: 824.103+/-0.126  $\chi^2/\text{NDF}$ : 4360746.5/47

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $684.081 \pm 430.903$   $\chi^2/\text{NDF}$ : 4.0/6

Right Out:  $-503.162 \pm 285.781$   $\chi^2/\text{NDF}$ : 23.6/17

Left In:  $-616.363 \pm 440.304$   $\chi^2/\text{NDF}$ : 13.5/5

Left:  $47.890 \pm 307.964$   $\chi^2/\text{NDF}$ : 22.0/12

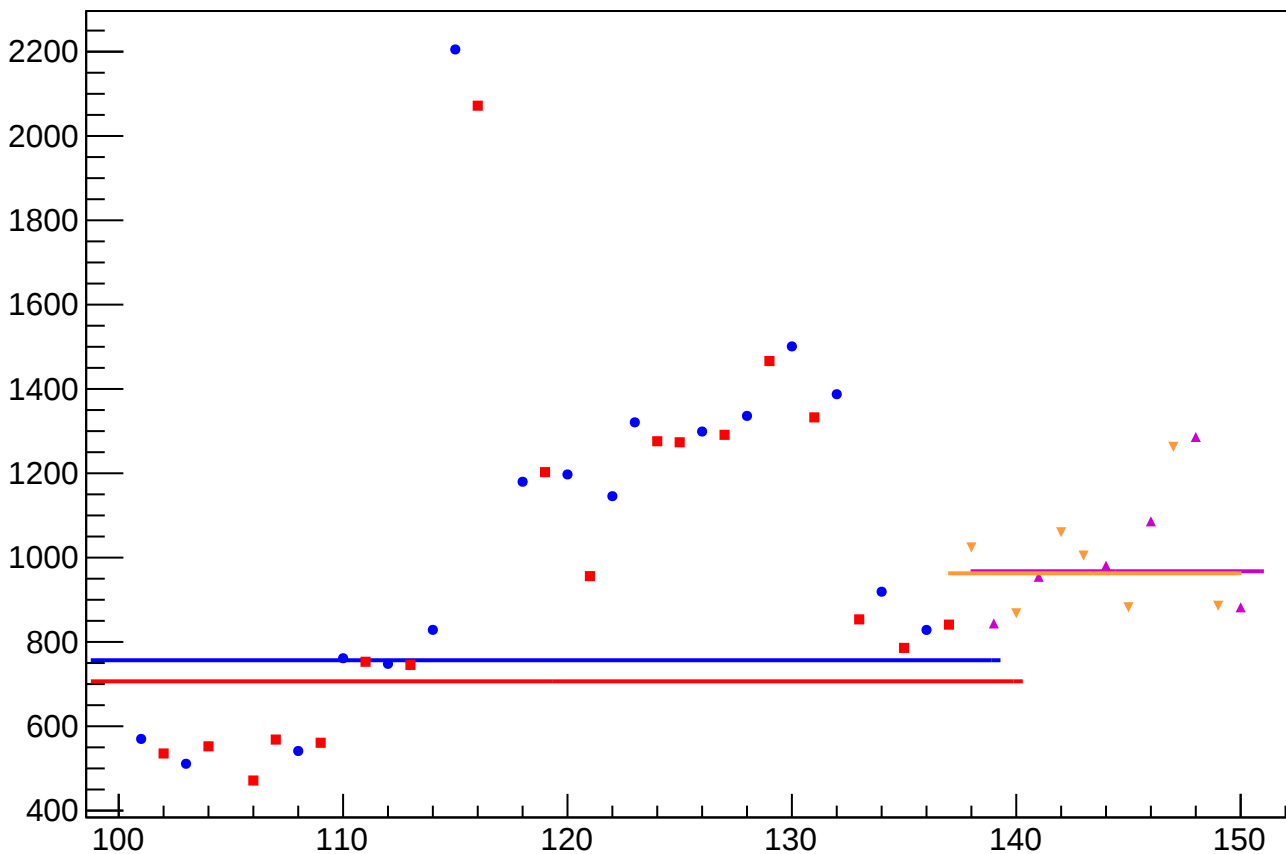
Right:  $-342.200 \pm 211.034$   $\chi^2/\text{NDF}$ : 40.4/34

In:  $-305.977 \pm 255.090$   $\chi^2/\text{NDF}$ : 30.4/22

Out:  $-140.477 \pm 238.163$   $\chi^2/\text{NDF}$ : 32.9/24

All:  $-217.554 \pm 174.083$   $\chi^2/\text{NDF}$ : 63.5/47

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.539+/-0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 962.709+/-0.305  $\chi^2/\text{NDF}$ : 145986.3/6

Right Out: 706.550+/-0.202  $\chi^2/\text{NDF}$ : 1670007.9/17

Left In: 967.609+/-0.311  $\chi^2/\text{NDF}$ : 165842.5/5

Left: 965.106+/-0.218  $\chi^2/\text{NDF}$ : 311955.3/12

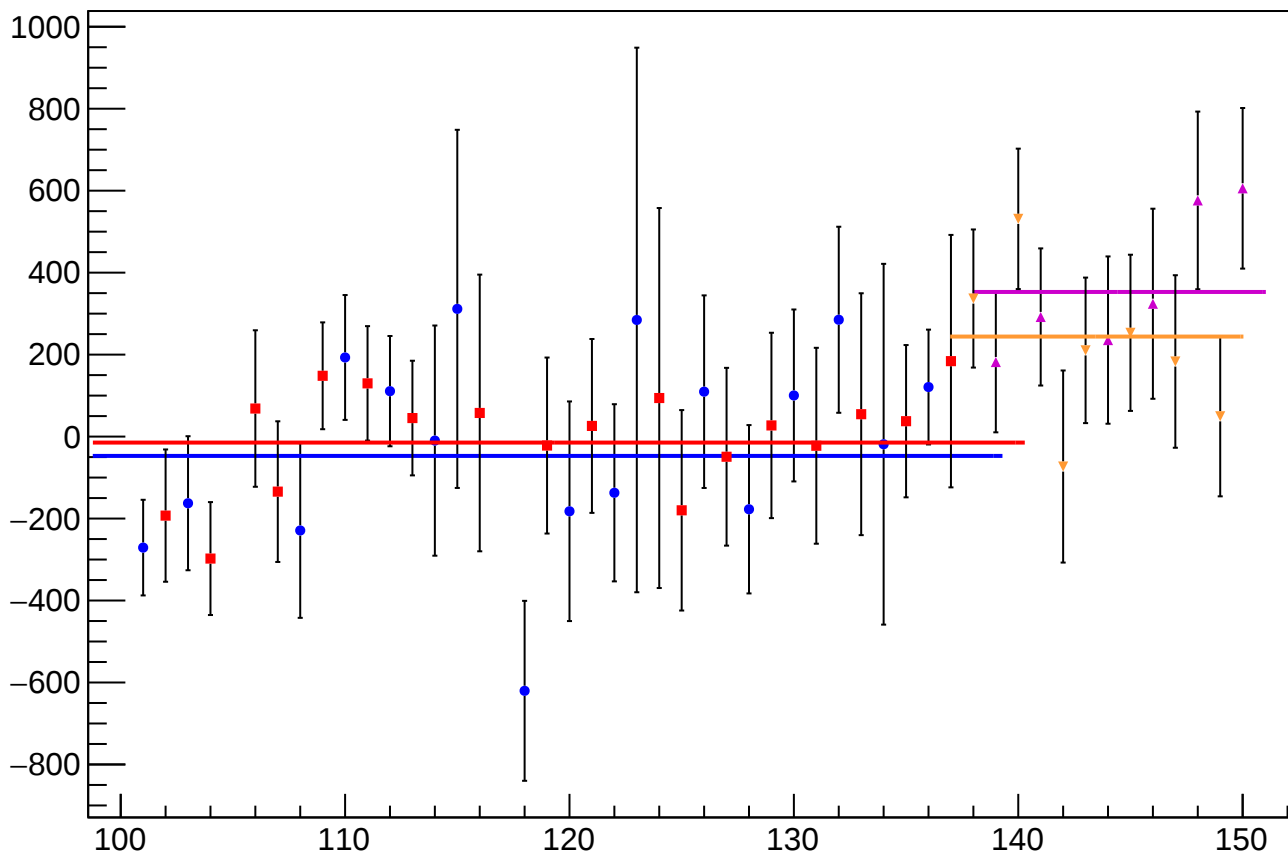
Right: 729.280+/-0.149  $\chi^2/\text{NDF}$ : 3411474.4/34

In: 827.384+/-0.180  $\chi^2/\text{NDF}$ : 2184820.8/22

Out: 784.803+/-0.168  $\chi^2/\text{NDF}$ : 2306869.8/24

All: 804.634+/-0.123  $\chi^2/\text{NDF}$ : 4521464.9/47

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $244.038 \pm 71.506$   $\chi^2/\text{NDF}: 6.1/6$

Right Out:  $-14.620 \pm 44.849$   $\chi^2/\text{NDF}: 10.1/17$

Left In:  $352.872 \pm 79.141$   $\chi^2/\text{NDF}: 4.2/5$

Left:  $292.954 \pm 53.057$   $\chi^2/\text{NDF}: 11.3/12$

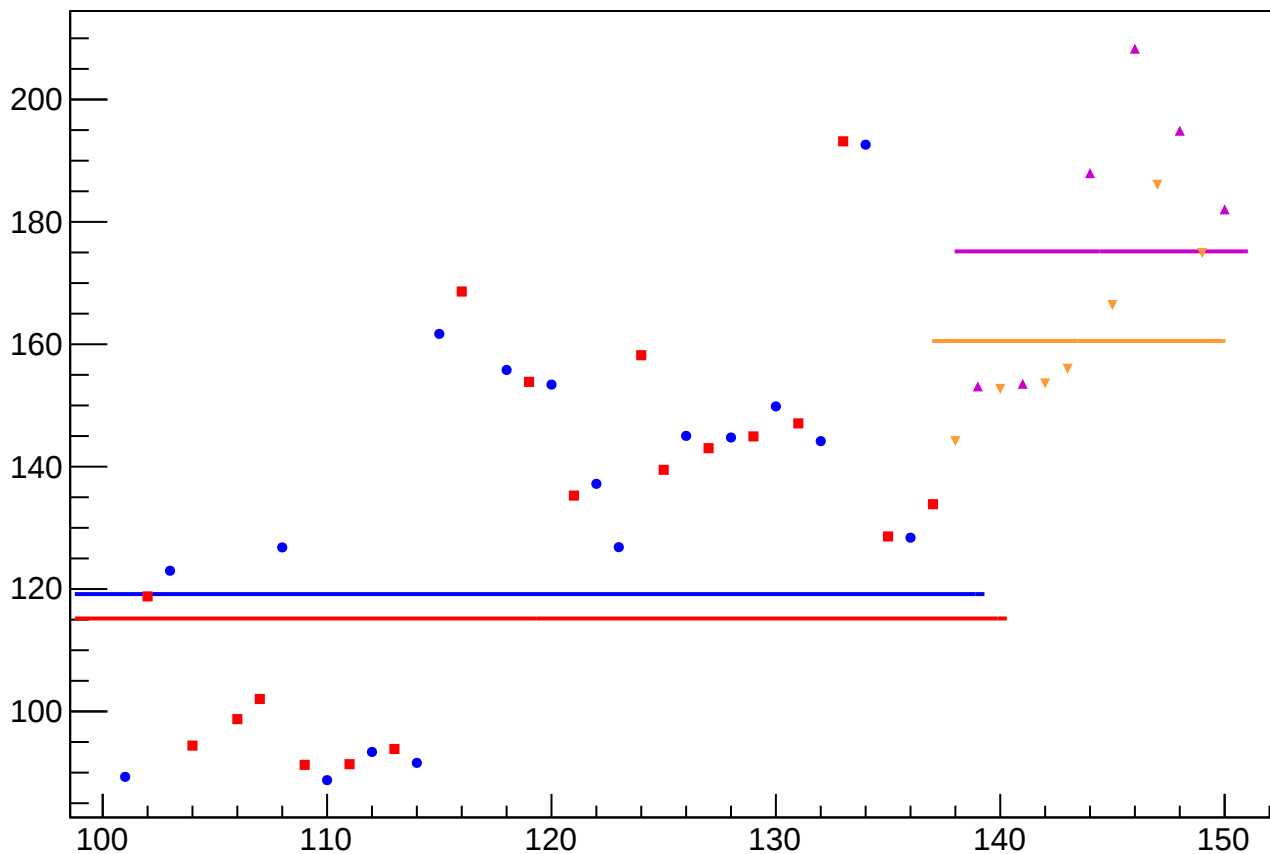
Right:  $-30.035 \pm 32.535$   $\chi^2/\text{NDF}: 32.3/34$

In:  $58.025 \pm 40.581$   $\chi^2/\text{NDF}: 44.9/22$

Out:  $58.406 \pm 37.994$   $\chi^2/\text{NDF}: 25.6/24$

All:  $58.228 \pm 27.736$   $\chi^2/\text{NDF}: 70.5/47$

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 119.175+/-0.033  $\chi^2/\text{NDF}$ : 615304.2/16

Left Out: 160.539+/-0.051  $\chi^2/\text{NDF}$ : 68276.6/6

Right Out: 115.188+/-0.032  $\chi^2/\text{NDF}$ : 675564.7/17

Left In: 175.175+/-0.056  $\chi^2/\text{NDF}$ : 134207.1/5

Left: 167.117+/-0.038  $\chi^2/\text{NDF}$ : 240143.5/12

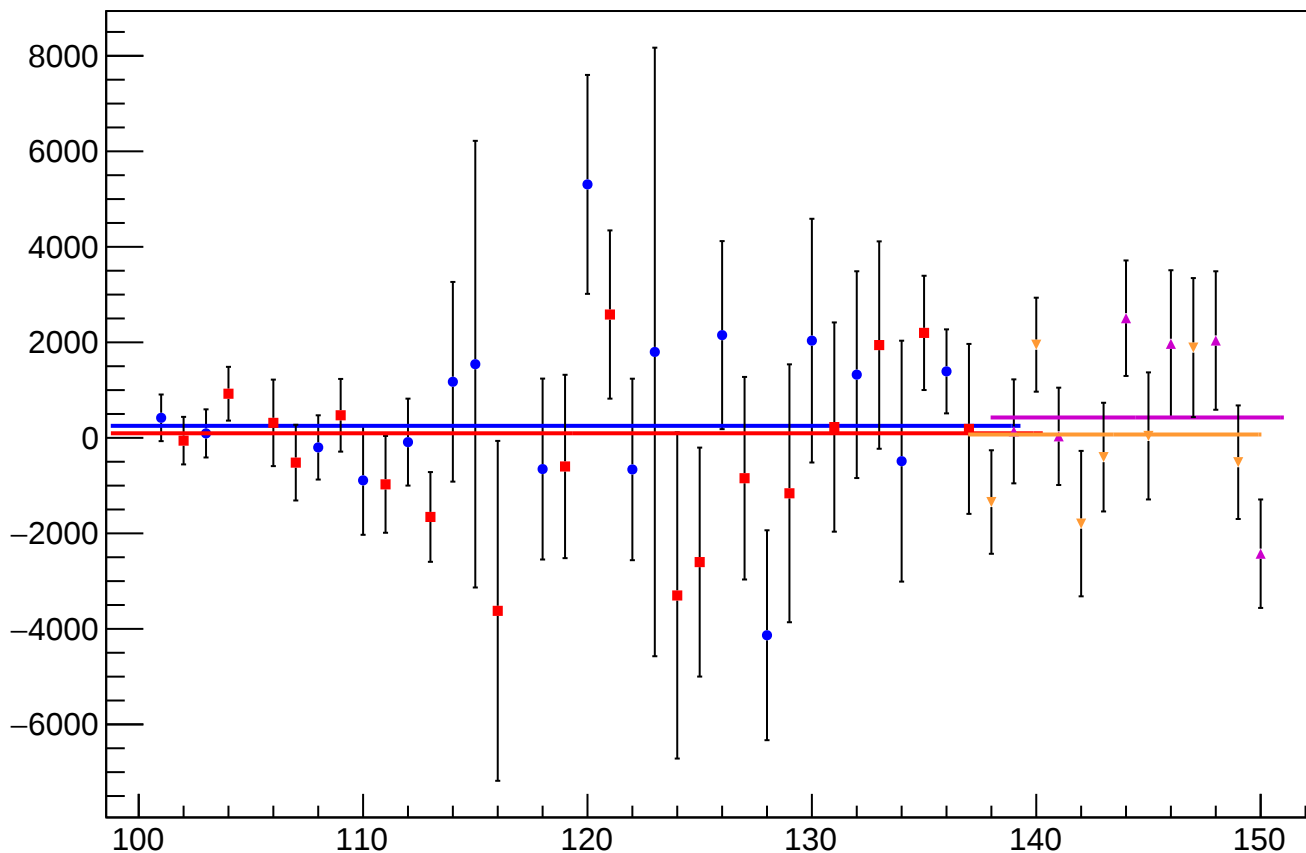
Right: 117.077+/-0.023  $\chi^2/\text{NDF}$ : 1298359.0/34

In: 133.900+/-0.029  $\chi^2/\text{NDF}$ : 1487605.9/22

Out: 127.991+/-0.027  $\chi^2/\text{NDF}$ : 1321211.6/24

All: 130.751+/-0.020  $\chi^2/\text{NDF}$ : 2831407.2/47

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



Right In: 251.733+/-252.819  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 70.325+/-454.942  $\chi^2/\text{NDF}$ : 8.8/6

Right Out: 95.805+/-245.748  $\chi^2/\text{NDF}$ : 17.5/17

Left In: 426.714+/-490.148  $\chi^2/\text{NDF}$ : 11.7/5

Left: 235.262+/-333.445  $\chi^2/\text{NDF}$ : 20.8/12

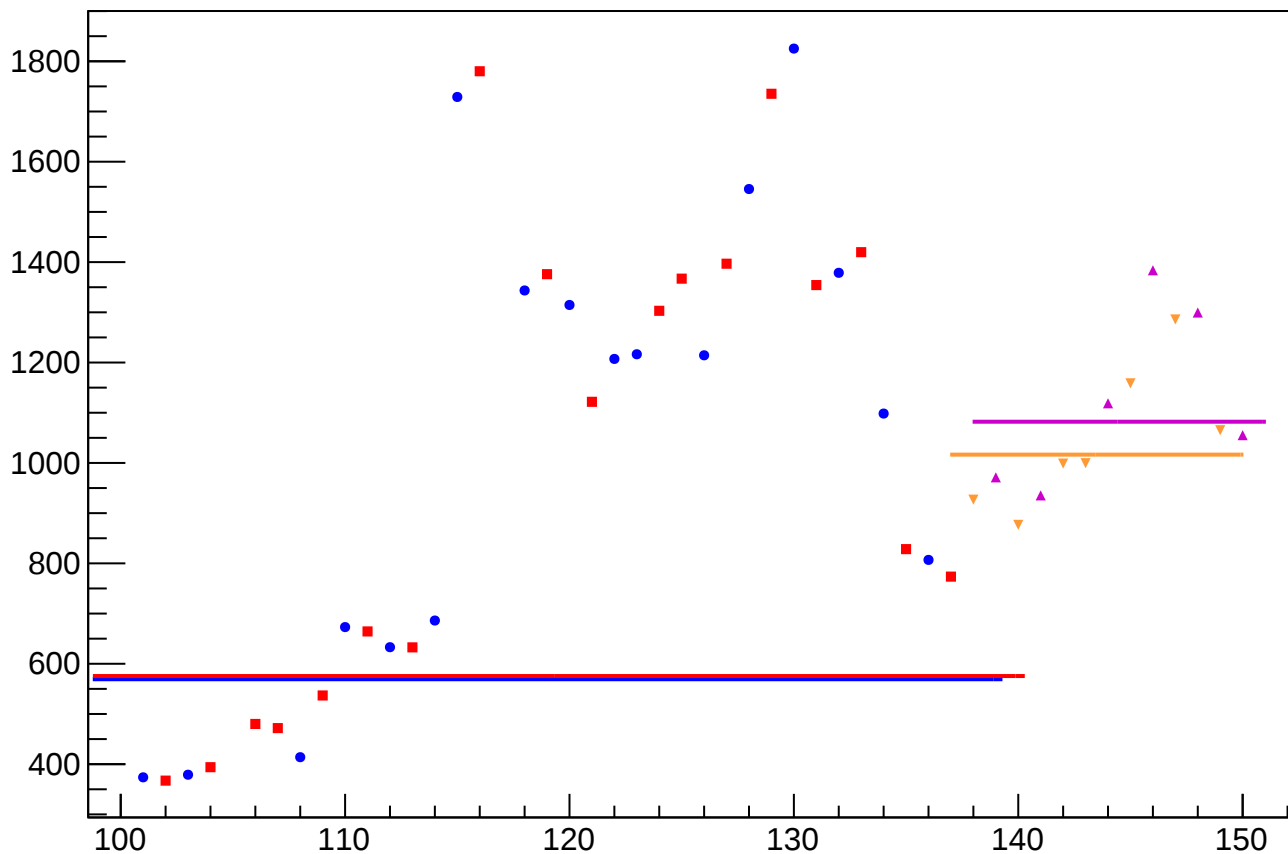
Right: 171.557+/-176.217  $\chi^2/\text{NDF}$ : 32.5/34

In: 288.504+/-224.691  $\chi^2/\text{NDF}$ : 26.7/22

Out: 90.049+/-216.219  $\chi^2/\text{NDF}$ : 26.3/24

All: 185.465+/-155.799  $\chi^2/\text{NDF}$ : 53.4/47

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



Right In: 569.200 $\pm$ 0.179  $\chi^2$ /NDF: 3267047.1/16

Left Out: 1016.564 $\pm$ 0.322  $\chi^2$ /NDF:149374.3/6

Right Out: 575.584 $\pm$ 0.174  $\chi^2$ /NDF: 3058273.5/17

Left In: 1082.123 $\pm$ 0.347  $\chi^2$ /NDF:186749.5/5

Left: 1046.905 $\pm$ 0.236  $\chi^2$ /NDF: 355344.7/12

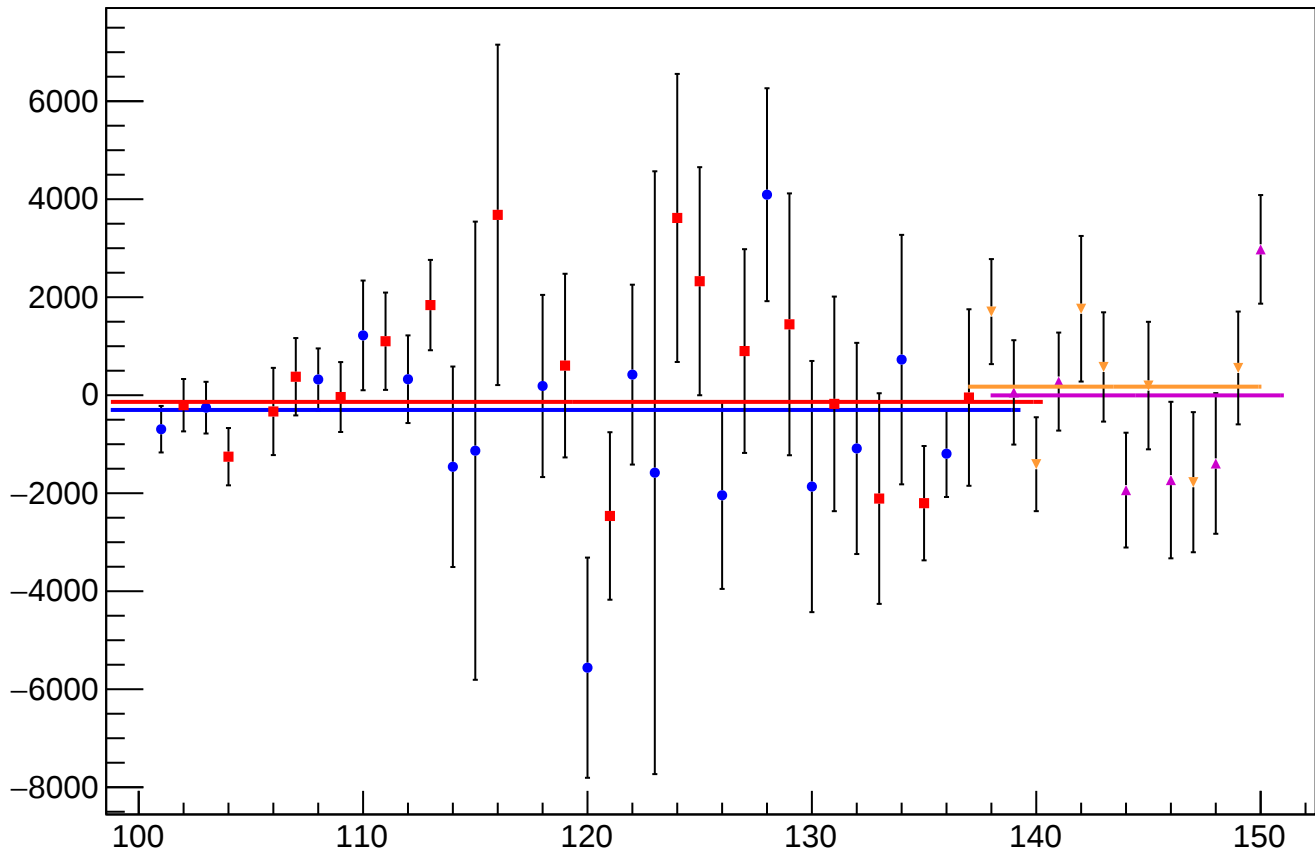
Right: 572.482 $\pm$ 0.125  $\chi^2$ /NDF: 6325976.2/34

In: 676.987 $\pm$ 0.159  $\chi^2$ /NDF:5183729.2/22

Out: 675.192 $\pm$ 0.153  $\chi^2$ /NDF:4662322.8/24

All: 676.055 $\pm$ 0.110  $\chi^2$ /NDF: 9846118.3/47

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-300.652 \pm 250.302$   $\chi^2/\text{NDF}: 16.7/16$

Left Out:  $174.707 \pm 444.948$   $\chi^2/\text{NDF}: 8.0/6$

Right Out:  $-136.107 \pm 247.692$   $\chi^2/\text{NDF}: 20.9/17$

Left In:  $-3.401 \pm 482.165$   $\chi^2/\text{NDF}: 12.1/5$

Left:  $92.791 \pm 326.992$   $\chi^2/\text{NDF}: 20.2/12$

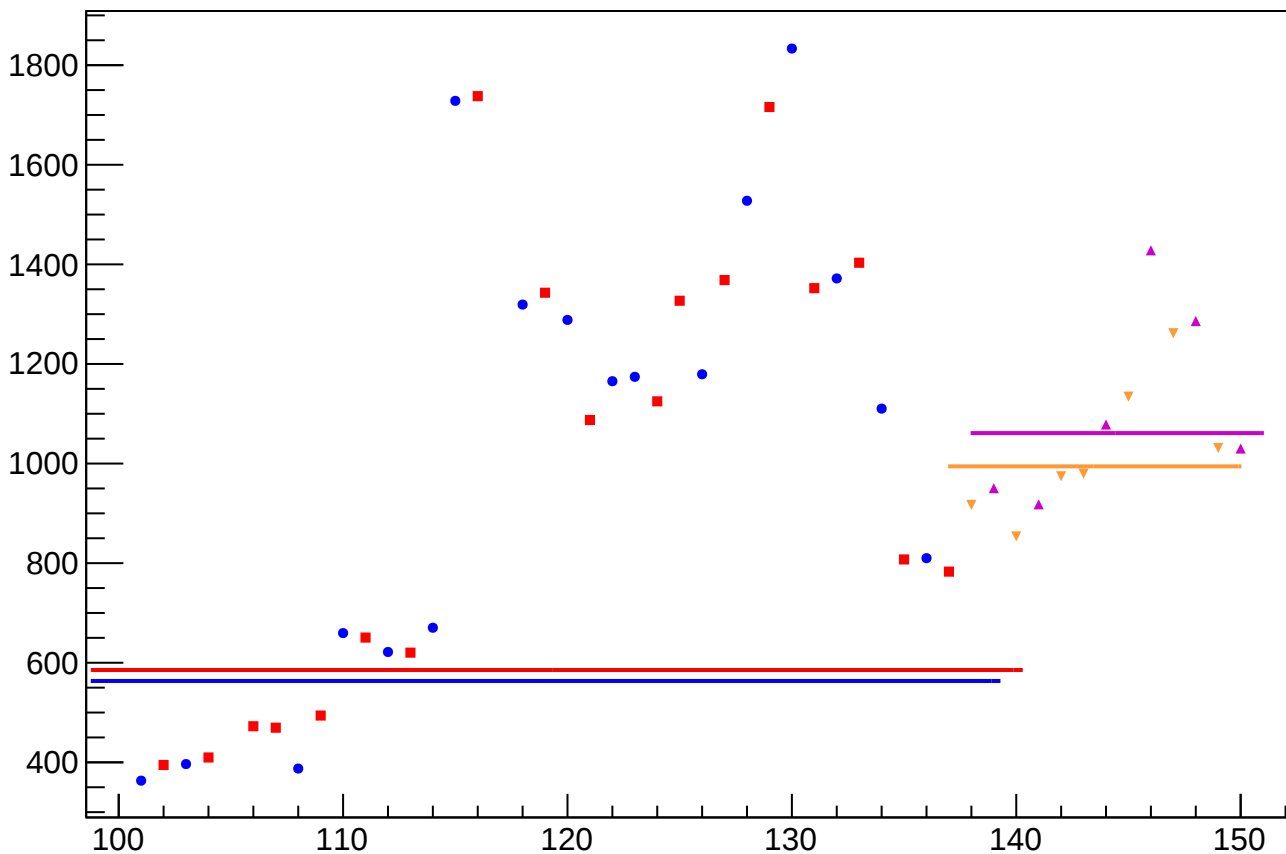
Right:  $-217.517 \pm 176.060$   $\chi^2/\text{NDF}: 37.8/34$

In:  $-237.552 \pm 222.152$   $\chi^2/\text{NDF}: 29.1/22$

Out:  $-62.576 \pm 216.419$   $\chi^2/\text{NDF}: 29.3/24$

All:  $-147.777 \pm 155.018$   $\chi^2/\text{NDF}: 58.7/47$

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 563.393+/-0.177  $\chi^2/\text{NDF}$ : 3259045.7/16

Left Out: 994.362+/-0.315  $\chi^2/\text{NDF}$ : 149366.9/6

Right Out: 585.438+/-0.175  $\chi^2/\text{NDF}$ : 2818143.7/17

Left In: 1061.170+/-0.341  $\chi^2/\text{NDF}$ : 219218.0/5

Left: 1025.089+/-0.231  $\chi^2/\text{NDF}$ : 389322.4/12

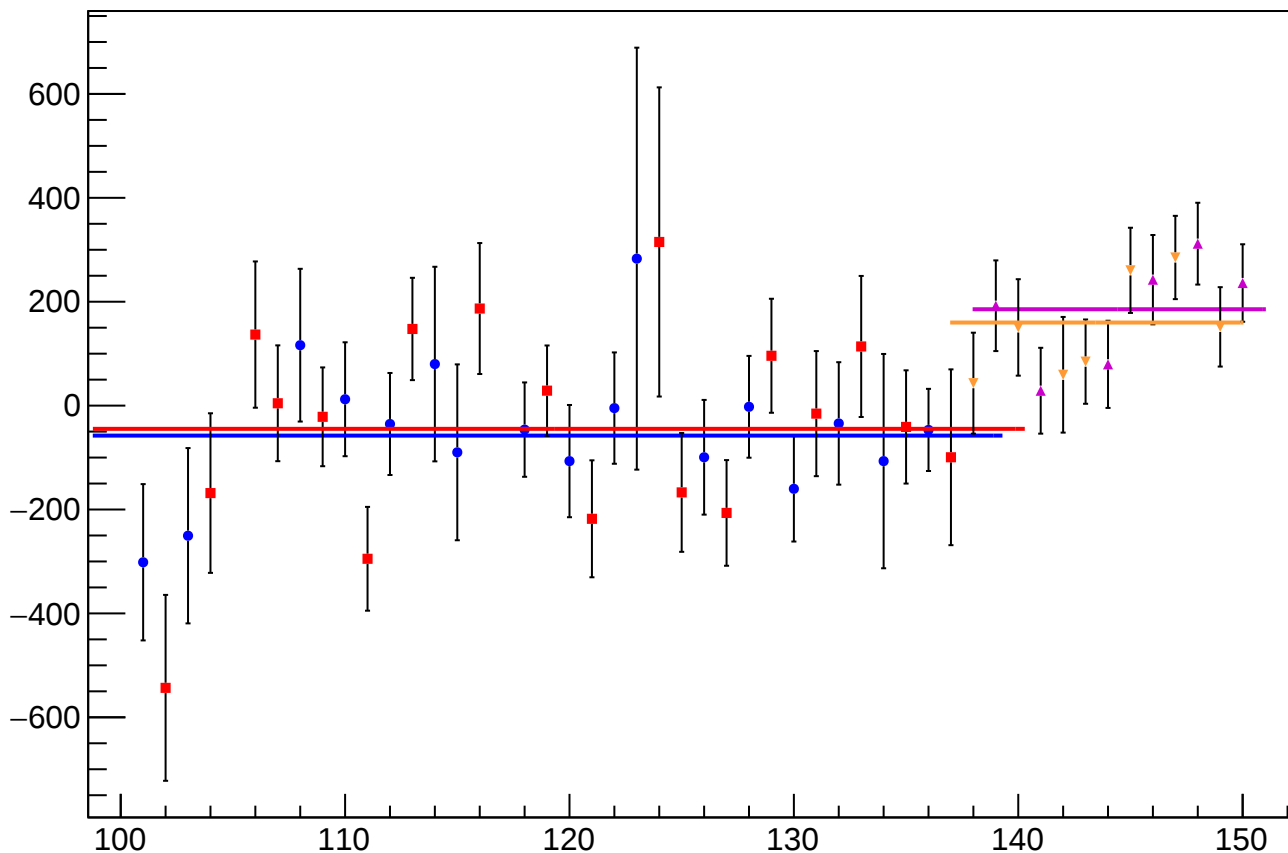
Right: 574.531+/-0.124  $\chi^2/\text{NDF}$ : 6085027.9/34

In: 669.062+/-0.157  $\chi^2/\text{NDF}$ : 5157379.3/22

Out: 682.180+/-0.153  $\chi^2/\text{NDF}$ : 4257132.0/24

All: 675.792+/-0.110  $\chi^2/\text{NDF}$ : 9418089.7/47

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -57.709 $\pm$ 28.693  $\chi^2$ /NDF: 9.1/16

Left Out: 159.944 $\pm$ 32.790  $\chi^2$ /NDF:7.1/6

Right Out: -44.693 $\pm$ 27.711  $\chi^2$ /NDF: 35.2/17

Left In: 185.520 $\pm$ 33.409  $\chi^2$ /NDF:8.7/5

Left: 172.493 $\pm$ 23.402  $\chi^2$ /NDF: 16.1/12

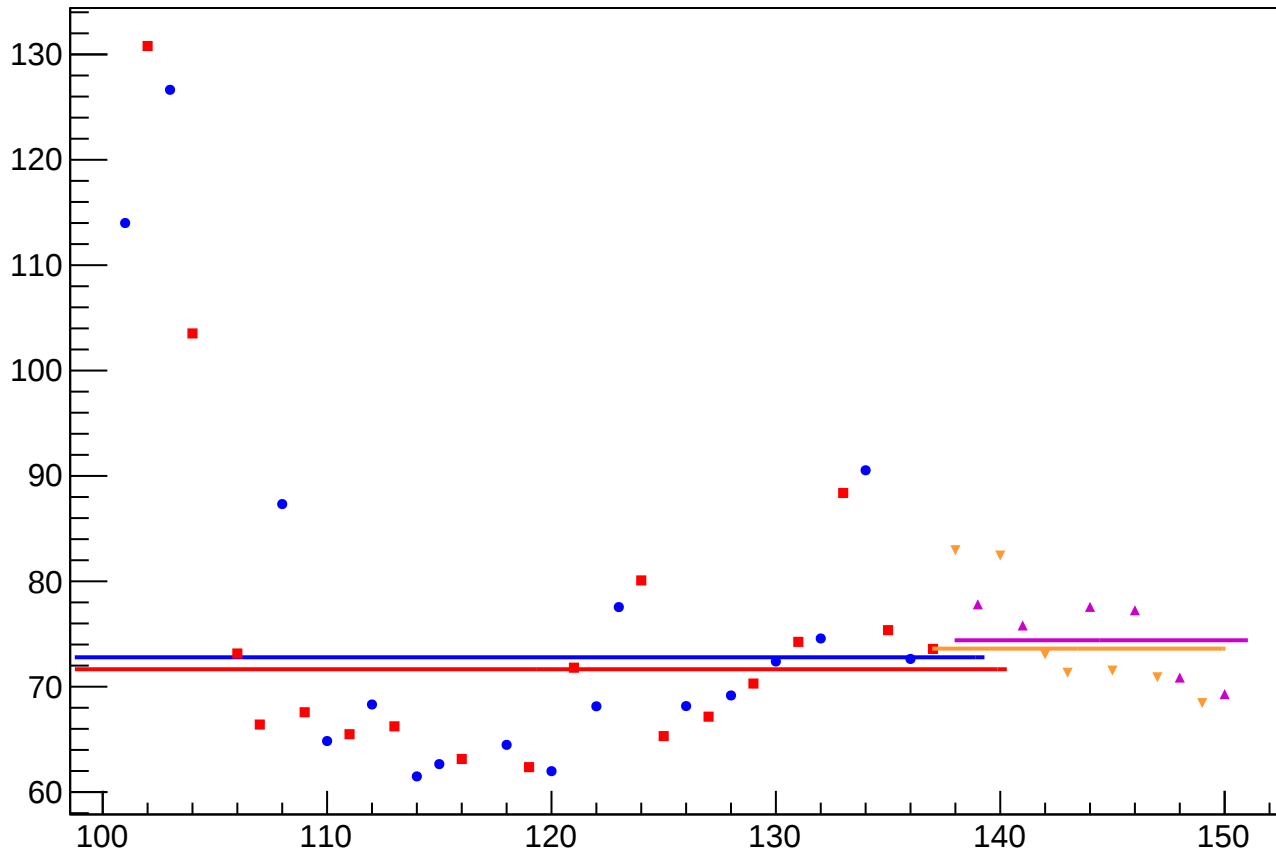
Right: -50.974 $\pm$ 19.933  $\chi^2$ /NDF: 44.4/34

In: 45.544 $\pm$ 21.767  $\chi^2$ /NDF:48.3/22

Out: 40.567 $\pm$ 21.165  $\chi^2$ /NDF:65.0/24

All: 42.985 $\pm$ 15.174  $\chi^2$ /NDF: 113.3/47

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 72.790 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 464772.9/16

Left Out: 73.614 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 50959.4/6

Right Out: 71.655 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 404376.9/17

Left In: 74.406 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 22110.2/5

Left: 74.003 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 73642.6/12

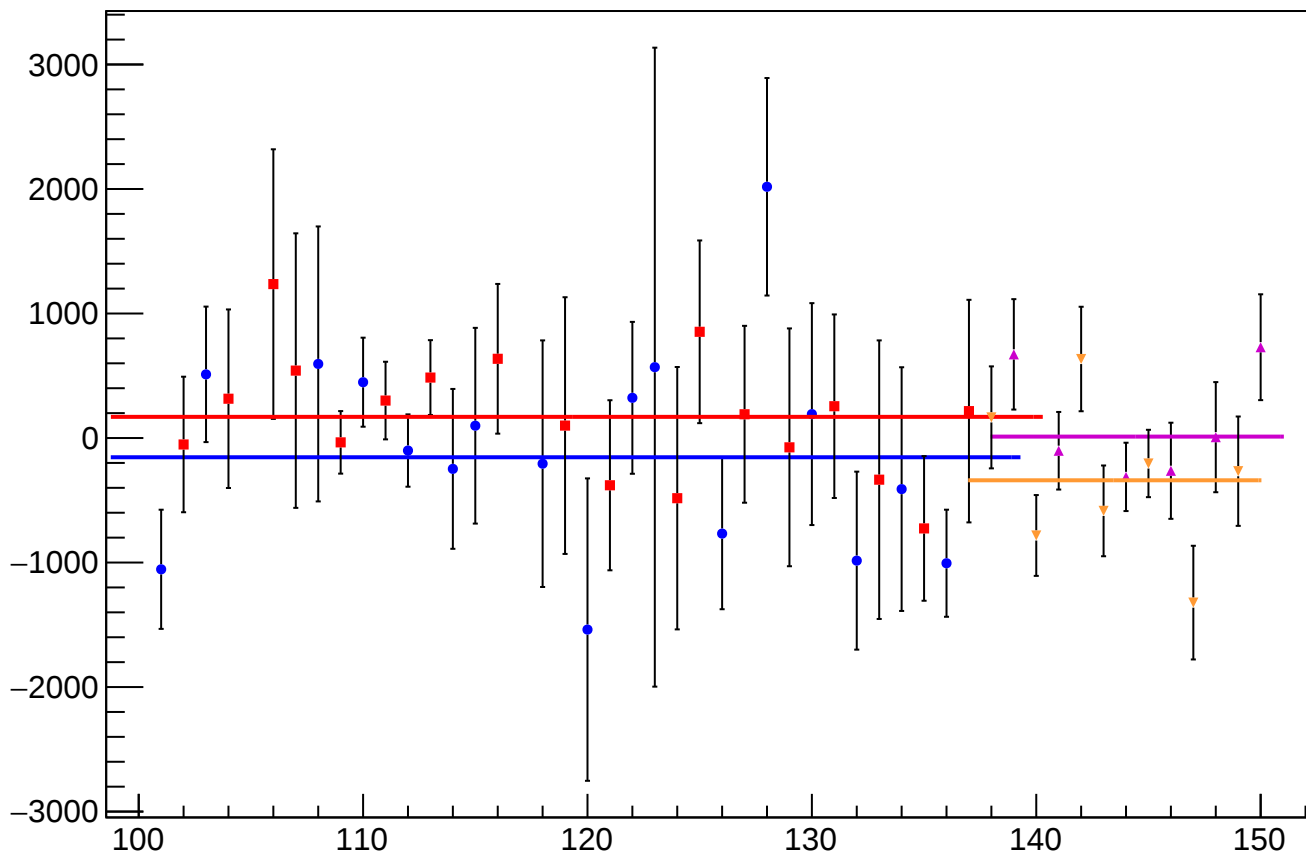
Right: 72.203 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 870767.9/34

In: 73.476 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 489577.4/22

Out: 72.471 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 459499.4/24

All: 72.960 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 951267.1/47

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



Right In: -154.404+/-140.700  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -339.424+/-138.264  $\chi^2/\text{NDF}$ :14.1/6

Right Out: 170.028+/-126.220  $\chi^2/\text{NDF}$ : 8.4/17

Left In: 11.449+/-147.397  $\chi^2/\text{NDF}$ :7.1/5

Left: -175.194+/-100.841  $\chi^2/\text{NDF}$ : 24.3/12

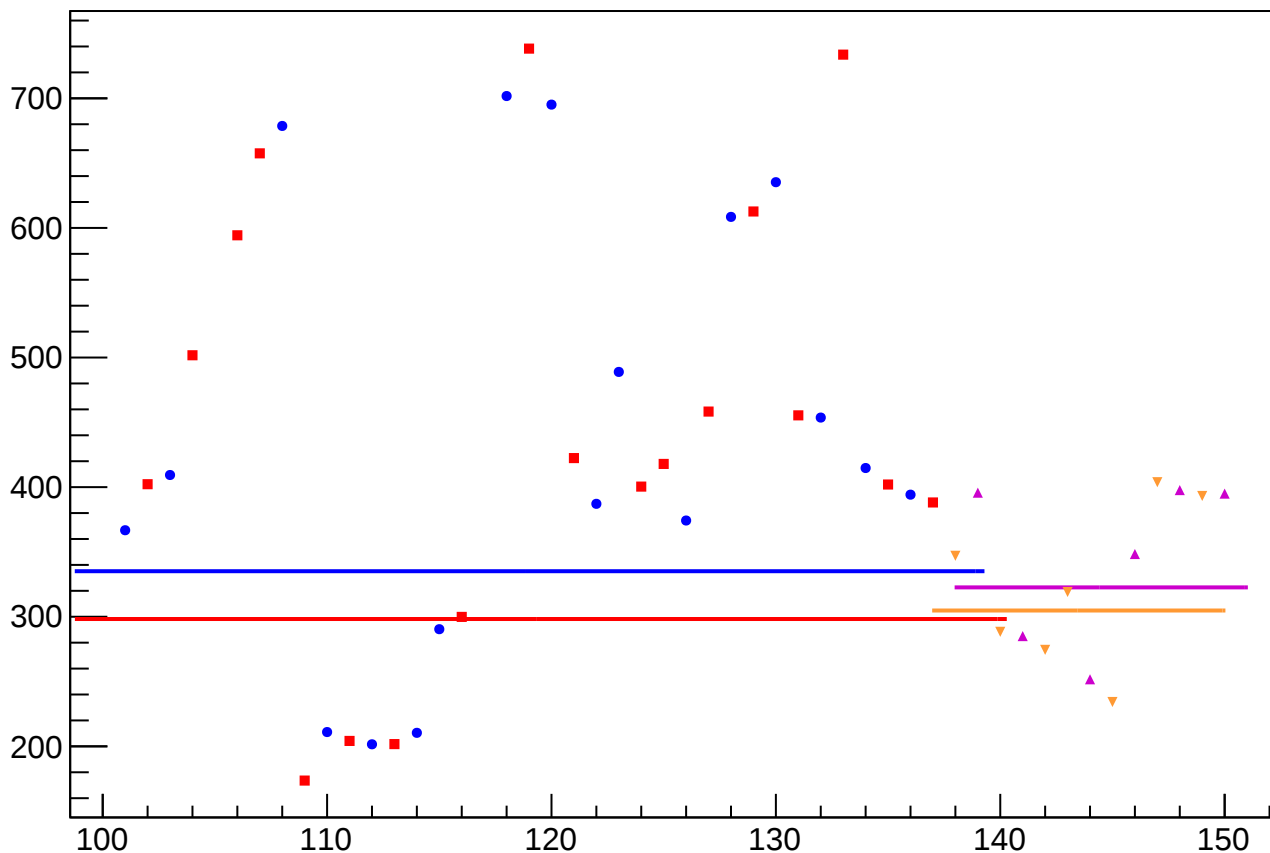
Right: 25.360+/-93.955  $\chi^2/\text{NDF}$ : 34.5/34

In: -75.330+/-101.775  $\chi^2/\text{NDF}$ :30.9/22

Out: -61.548+/-93.219  $\chi^2/\text{NDF}$ :29.9/24

All: -67.835+/-68.742  $\chi^2/\text{NDF}$ : 60.9/47

asym\_sam7\_correction\_rms vs Slug, Sign Corrected



Right In: 335.134 $\pm$ 0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 304.812 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 351178.4/6

Right Out: 298.253 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 2776555.9/17

Left In: 322.650 $\pm$ 0.104  $\chi^2/\text{NDF}$ : 341482.0/5

Left: 313.161 $\pm$ 0.071  $\chi^2/\text{NDF}$ : 708242.7/12

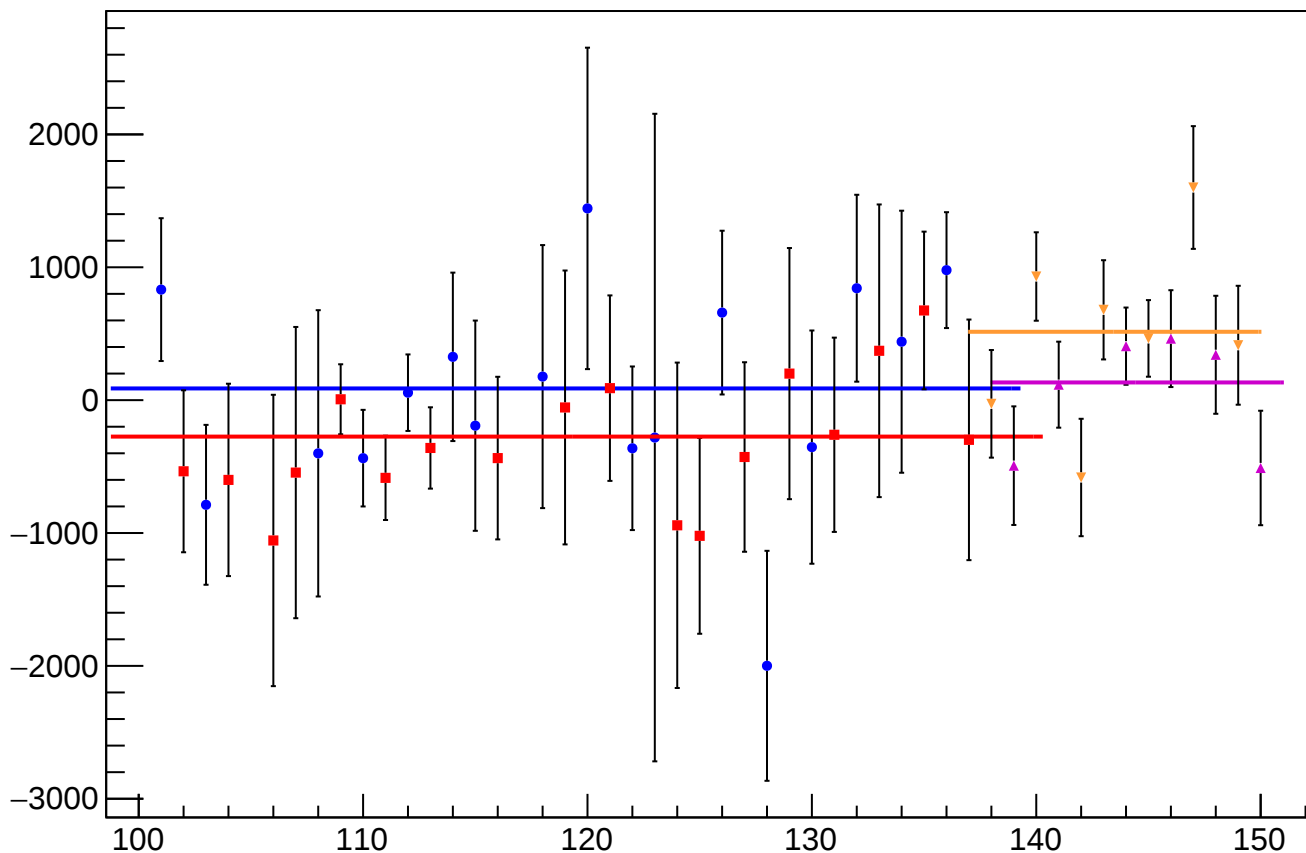
Right: 314.699 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 4846742.5/34

In: 329.182 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 2343033.9/22

Out: 301.235 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 3130188.9/24

All: 313.984 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 5555234.0/47

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 88.115 $\pm$ 143.018  $\chi^2$ /NDF: 20.8/16

Left Out: 514.577 $\pm$ 142.665  $\chi^2$ /NDF:15.3/6

Right Out: -274.340 $\pm$ 129.866  $\chi^2$ /NDF: 8.0/17

Left In: 133.188 $\pm$ 150.088  $\chi^2$ /NDF:6.1/5

Left: 333.547 $\pm$ 103.404  $\chi^2$ /NDF: 24.8/12

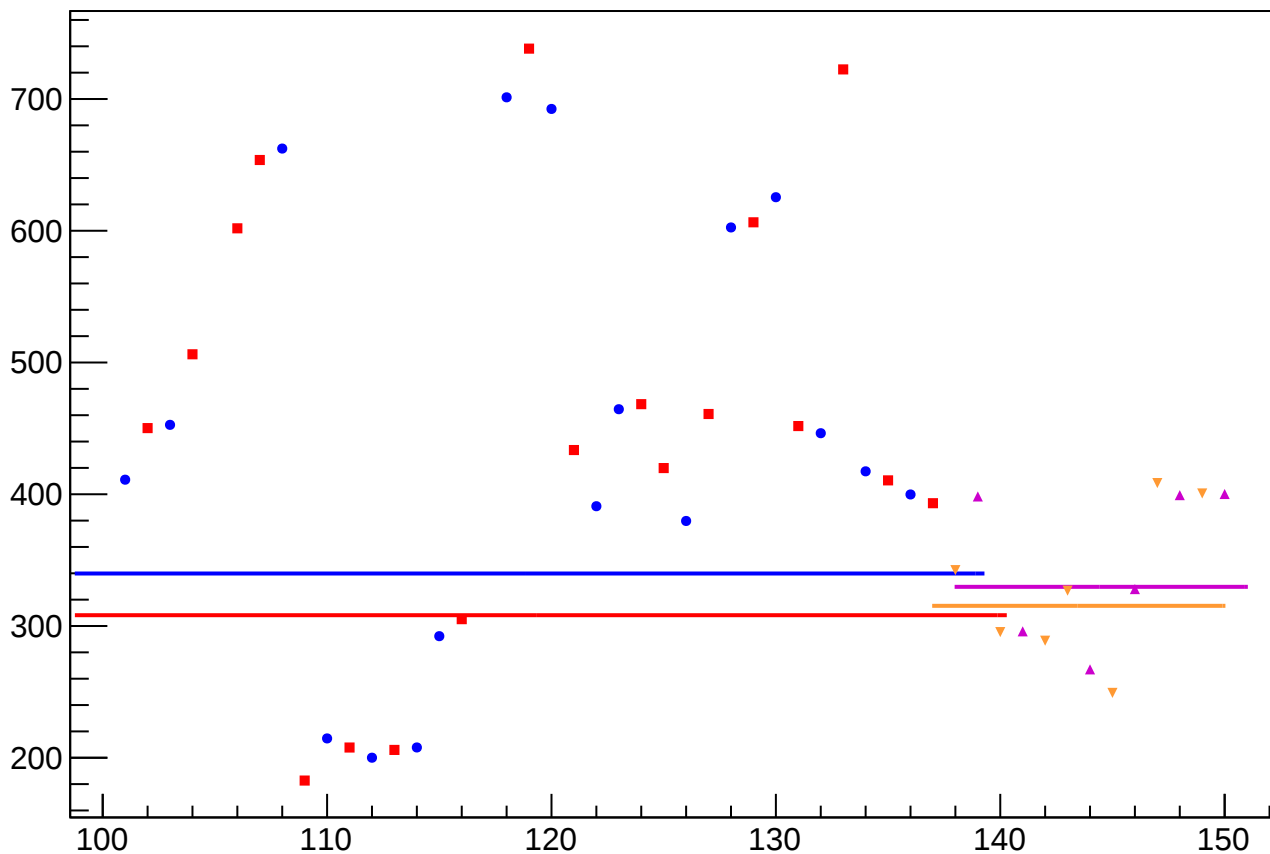
Right: -110.540 $\pm$ 96.143  $\chi^2$ /NDF: 32.4/34

In: 109.565 $\pm$ 103.538  $\chi^2$ /NDF:27.0/22

Out: 83.151 $\pm$ 96.036  $\chi^2$ /NDF:40.1/24

All: 95.367 $\pm$ 70.411  $\chi^2$ /NDF: 67.1/47

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In:  $339.850 \pm 0.101$   $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out:  $315.316 \pm 0.101$   $\chi^2/\text{NDF}$ : 284331.9/6

Right Out:  $308.199 \pm 0.092$   $\chi^2/\text{NDF}$ : 2698828.8/17

Left In:  $329.735 \pm 0.106$   $\chi^2/\text{NDF}$ : 264622.3/5

Left:  $322.160 \pm 0.073$   $\chi^2/\text{NDF}$ : 558651.6/12

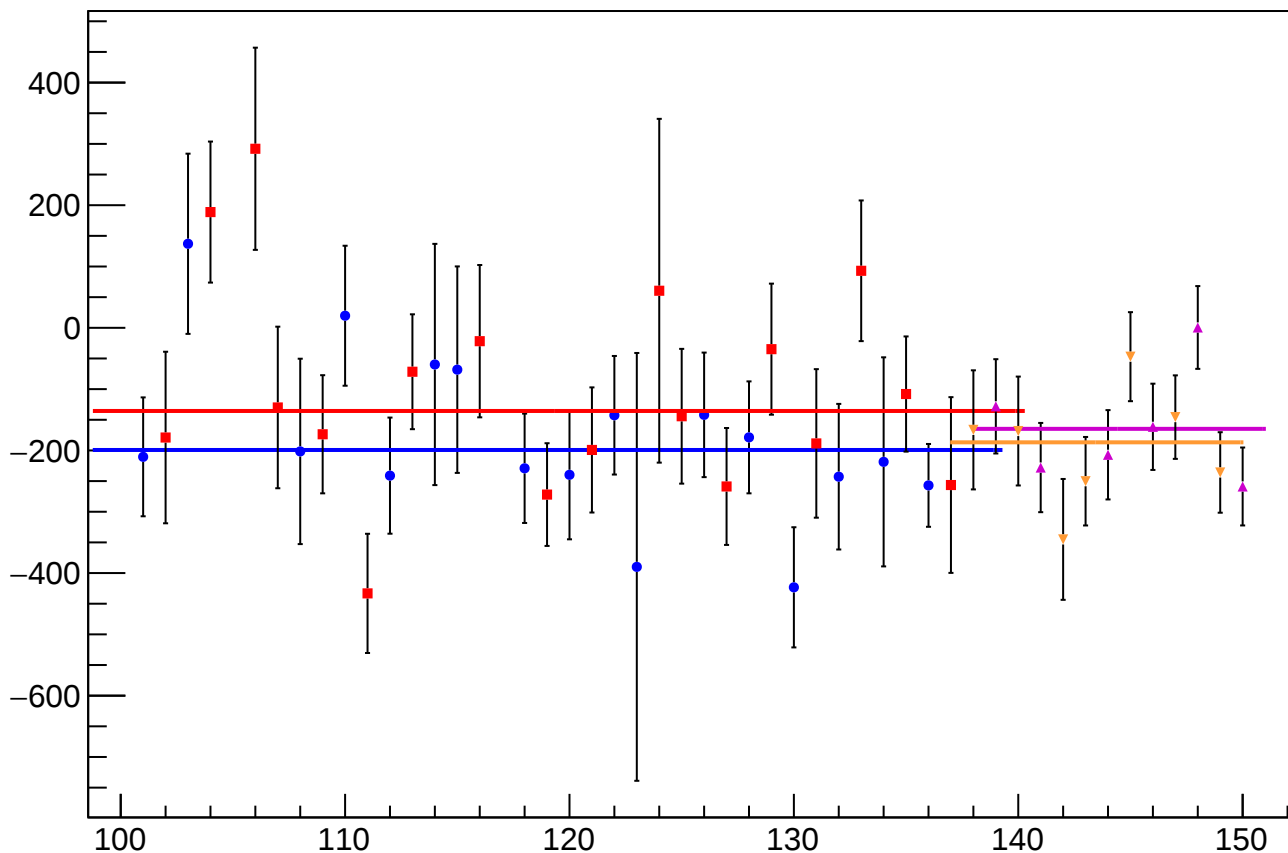
Right:  $322.502 \pm 0.068$   $\chi^2/\text{NDF}$ : 4796037.7/34

In:  $335.036 \pm 0.073$   $\chi^2/\text{NDF}$ : 2312905.0/22

Out:  $311.424 \pm 0.068$   $\chi^2/\text{NDF}$ : 2985882.8/24

All:  $322.344 \pm 0.050$   $\chi^2/\text{NDF}$ : 5354701.0/47

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-199.252 \pm 26.515$   $\chi^2/\text{NDF}: 17.6/16$

Left Out:  $-186.783 \pm 29.298$   $\chi^2/\text{NDF}: 8.1/6$

Right Out:  $-135.623 \pm 26.252$   $\chi^2/\text{NDF}: 36.7/17$

Left In:  $-164.776 \pm 28.685$   $\chi^2/\text{NDF}: 9.5/5$

Left:  $-175.547 \pm 20.497$   $\chi^2/\text{NDF}: 17.9/12$

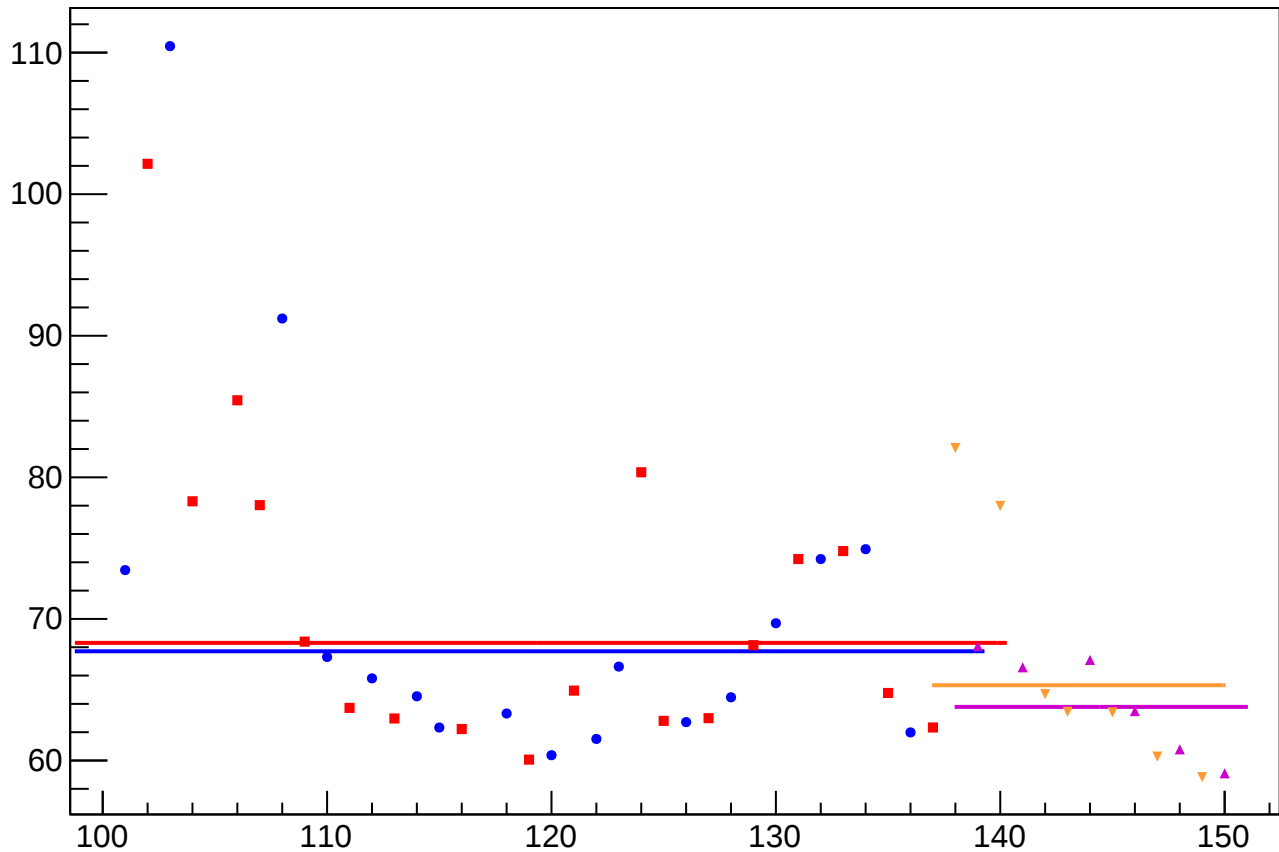
Right:  $-167.121 \pm 18.655$   $\chi^2/\text{NDF}: 57.2/34$

In:  $-183.367 \pm 19.471$   $\chi^2/\text{NDF}: 27.9/22$

Out:  $-158.407 \pm 19.551$   $\chi^2/\text{NDF}: 46.4/24$

All:  $-170.938 \pm 13.796$   $\chi^2/\text{NDF}: 75.1/47$

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 67.715+/-0.019  $\chi^2/\text{NDF}$ : 282892.5/16

Left Out: 65.319+/-0.021  $\chi^2/\text{NDF}$ :133512.7/6

Right Out: 68.308+/-0.019  $\chi^2/\text{NDF}$ : 234314.0/17

Left In: 63.788+/-0.020  $\chi^2/\text{NDF}$ :28216.0/5

Left: 64.537+/-0.014  $\chi^2/\text{NDF}$ : 164517.5/12

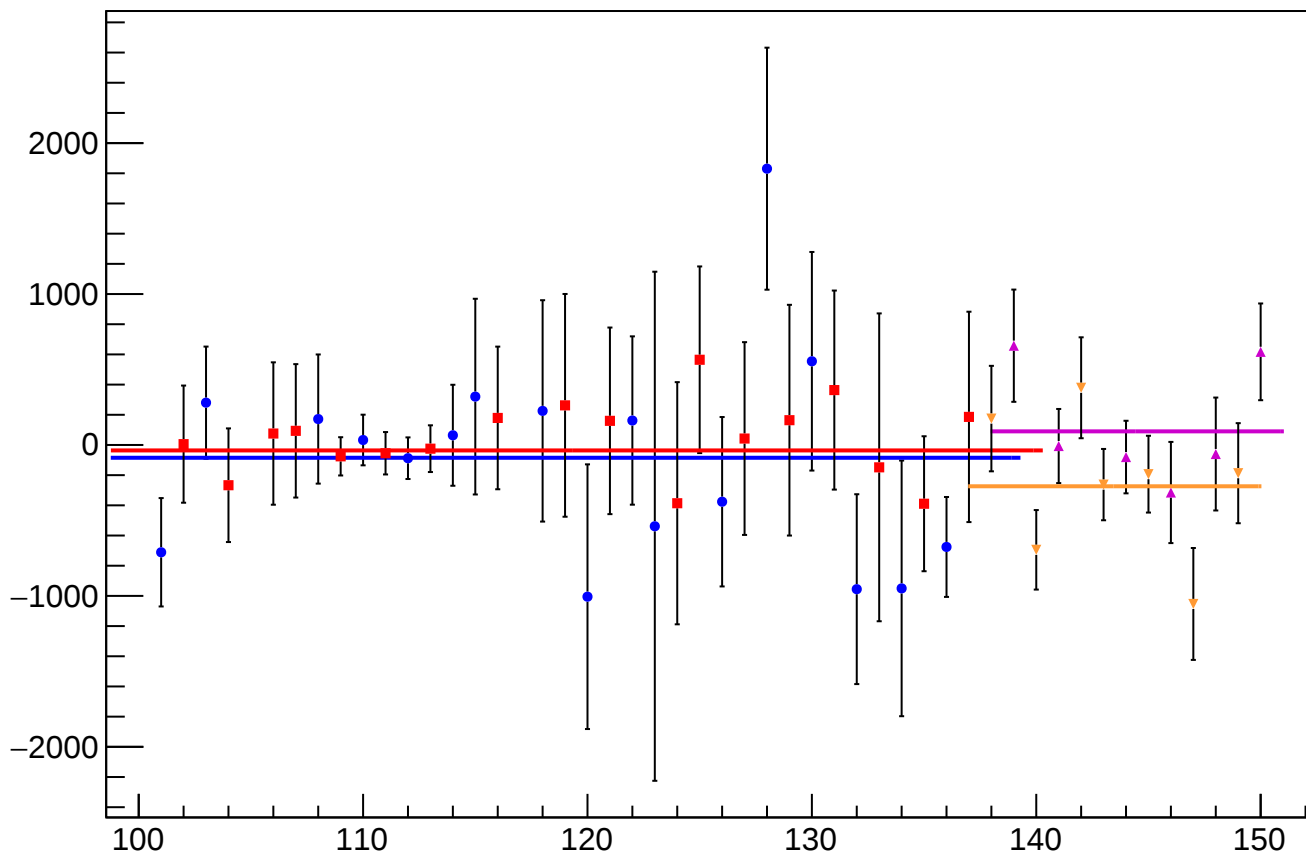
Right: 68.015+/-0.013  $\chi^2/\text{NDF}$ : 517711.7/34

In: 65.906+/-0.014  $\chi^2/\text{NDF}$ :331328.5/22

Out: 66.977+/-0.014  $\chi^2/\text{NDF}$ :379378.0/24

All: 66.439+/-0.010  $\chi^2/\text{NDF}$ : 713721.3/47

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}: 19.9/16$

Left Out:  $-273.694 \pm 110.916$   $\chi^2/\text{NDF}: 12.6/6$

Right Out:  $-36.132 \pm 69.750$   $\chi^2/\text{NDF}: 3.4/17$

Left In:  $90.159 \pm 122.261$   $\chi^2/\text{NDF}: 7.3/5$

Left:  $-109.428 \pm 82.148$   $\chi^2/\text{NDF}: 24.8/12$

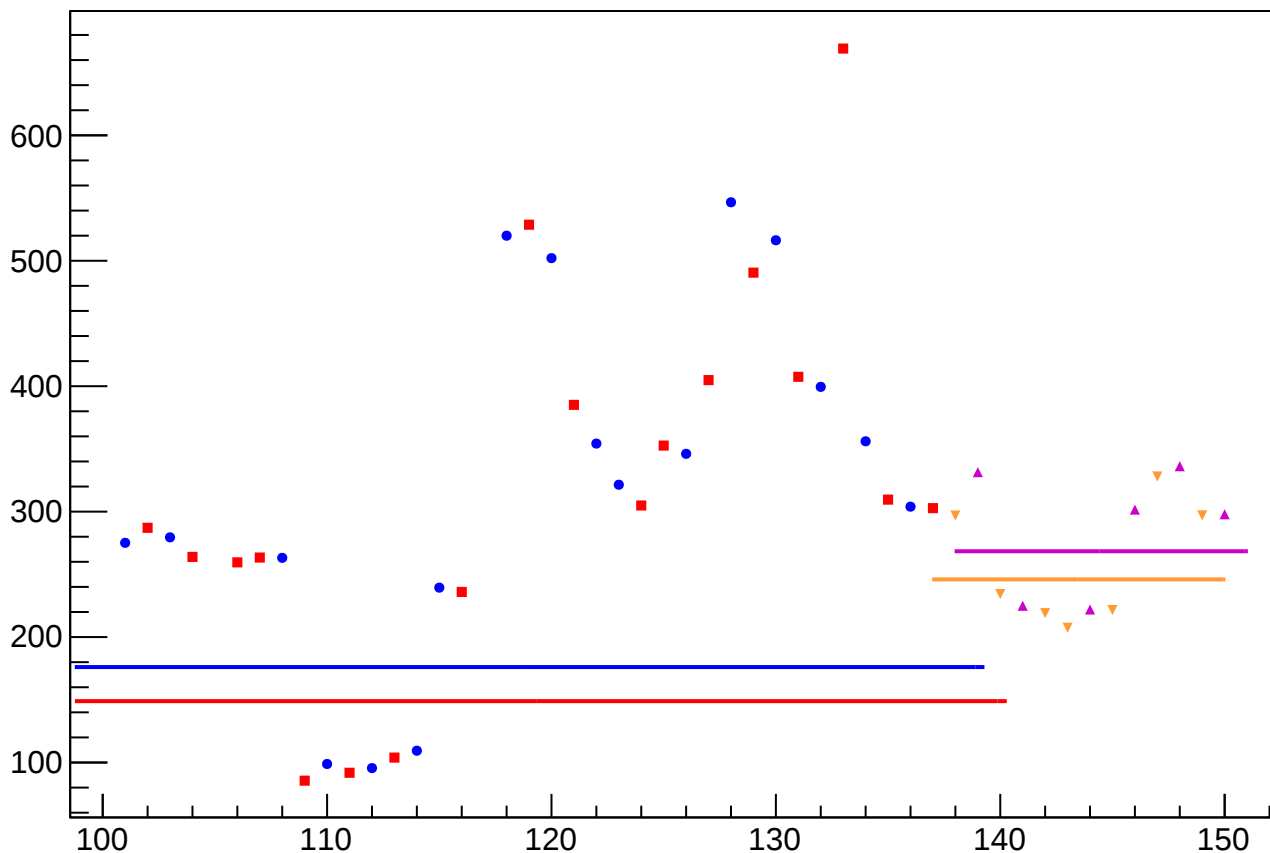
Right:  $-56.354 \pm 53.310$   $\chi^2/\text{NDF}: 23.5/34$

In:  $-29.879 \pm 68.482$   $\chi^2/\text{NDF}: 28.6/22$

Out:  $-103.455 \pm 59.045$   $\chi^2/\text{NDF}: 19.3/24$

All:  $-72.082 \pm 44.719$   $\chi^2/\text{NDF}: 48.6/47$

asym\_sam8\_correction\_rms vs Slug, Sign Corrected



Right In: 176.096 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 245.993 $\pm$ 0.078  $\chi^2/\text{NDF}$ :276398.2/6

Right Out: 148.932 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

Left In: 268.416 $\pm$ 0.086  $\chi^2/\text{NDF}$ :296904.6/5

Left: 256.116 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 610204.3/12

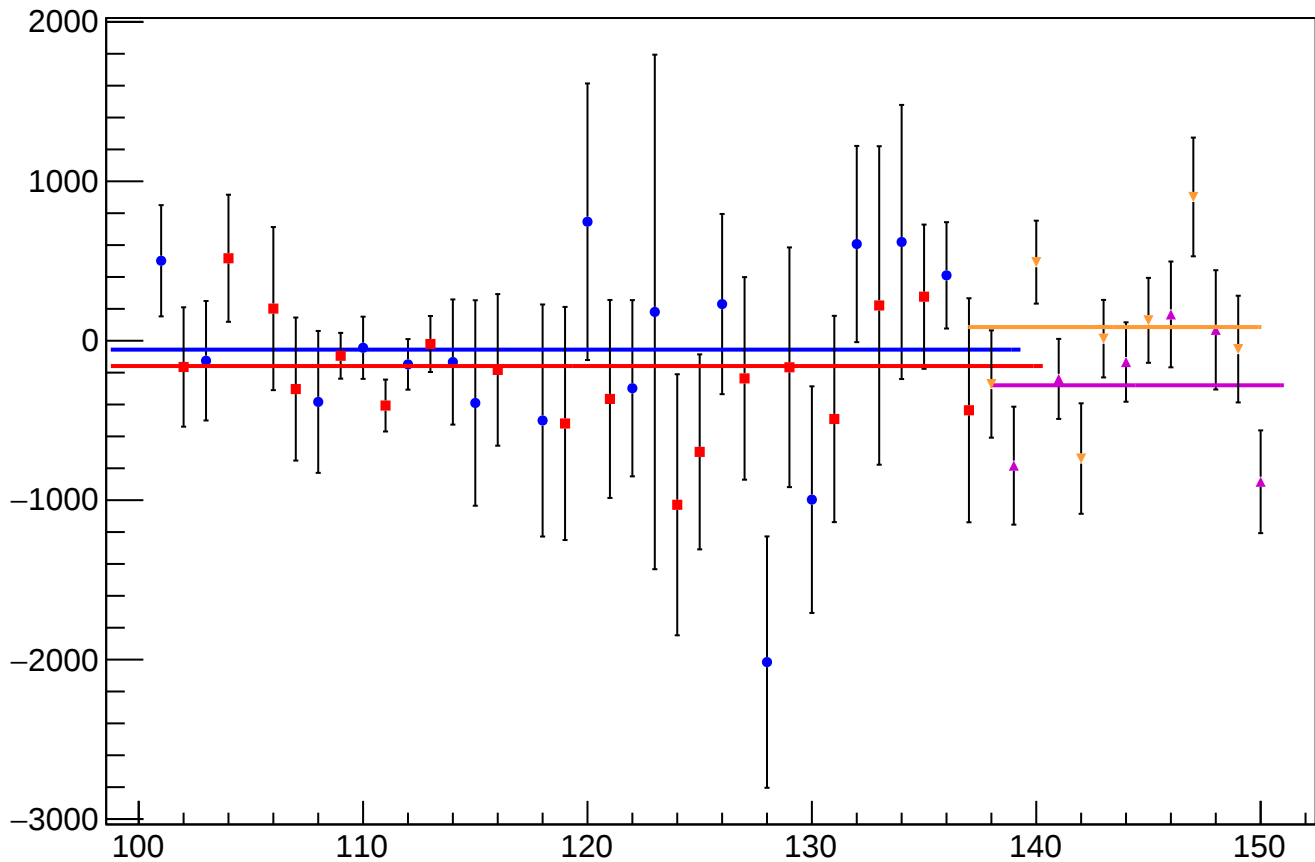
Right: 160.228 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 9120718.3/34

In: 205.061 $\pm$ 0.048  $\chi^2/\text{NDF}$ :5303132.0/22

Out: 176.438 $\pm$ 0.042  $\chi^2/\text{NDF}$ :6144841.3/24

All: 188.643 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 11648386.3/47

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}: 17.1/16$

Left Out:  $85.908 \pm 112.442$   $\chi^2/\text{NDF}: 14.3/6$

Right Out:  $-158.676 \pm 77.072$   $\chi^2/\text{NDF}: 10.4/17$

Left In:  $-279.390 \pm 123.888$   $\chi^2/\text{NDF}: 8.4/5$

Left:  $-79.089 \pm 83.262$   $\chi^2/\text{NDF}: 27.5/12$

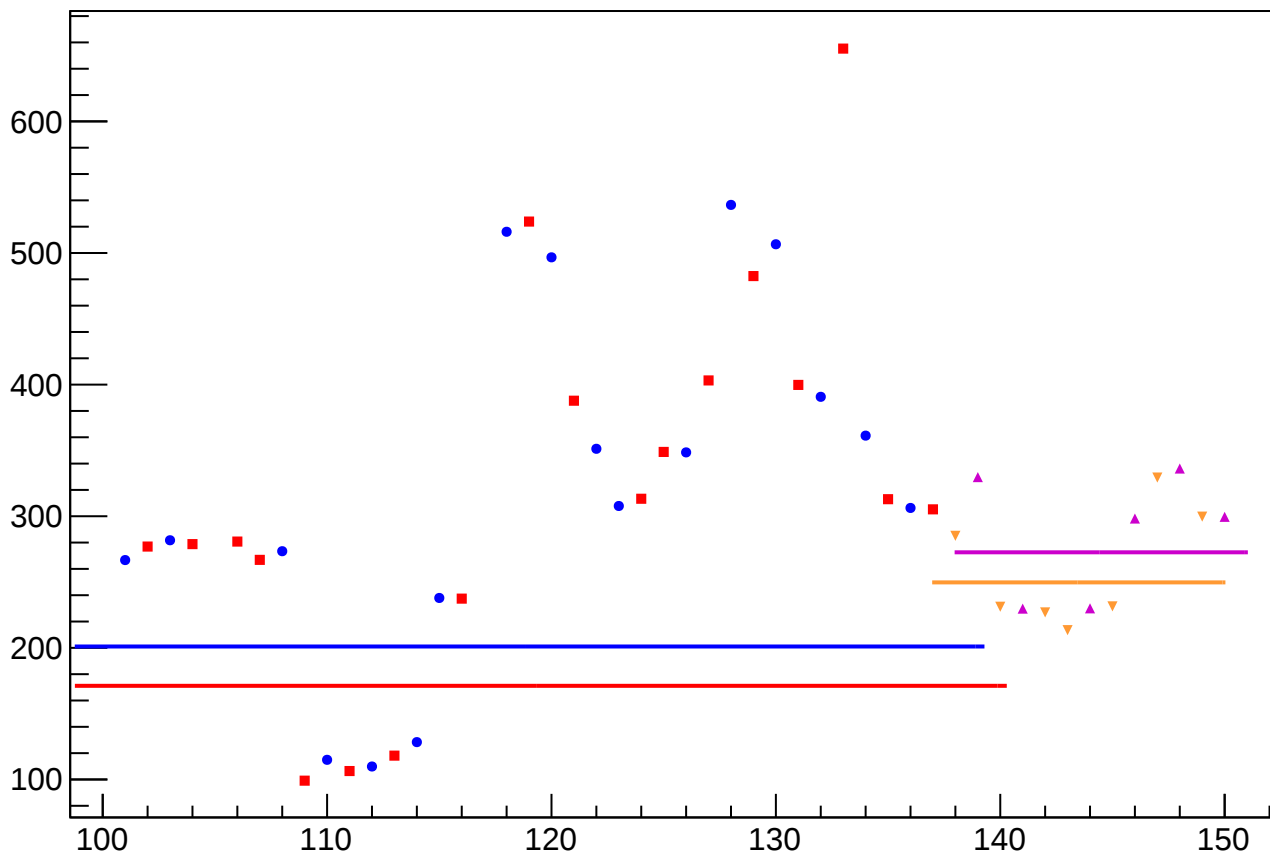
Right:  $-115.437 \pm 58.697$   $\chi^2/\text{NDF}: 28.3/34$

In:  $-133.629 \pm 73.116$   $\chi^2/\text{NDF}: 27.7/22$

Out:  $-80.495 \pm 63.572$   $\chi^2/\text{NDF}: 27.9/24$

All:  $-103.370 \pm 47.974$   $\chi^2/\text{NDF}: 55.9/47$

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 201.036+/-0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 249.738+/-0.080  $\chi^2/\text{NDF}$ :230921.7/6

Right Out: 171.159+/-0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

Left In: 272.592+/-0.088  $\chi^2/\text{NDF}$ :248096.0/5

Left: 260.061+/-0.059  $\chi^2/\text{NDF}$ : 516334.4/12

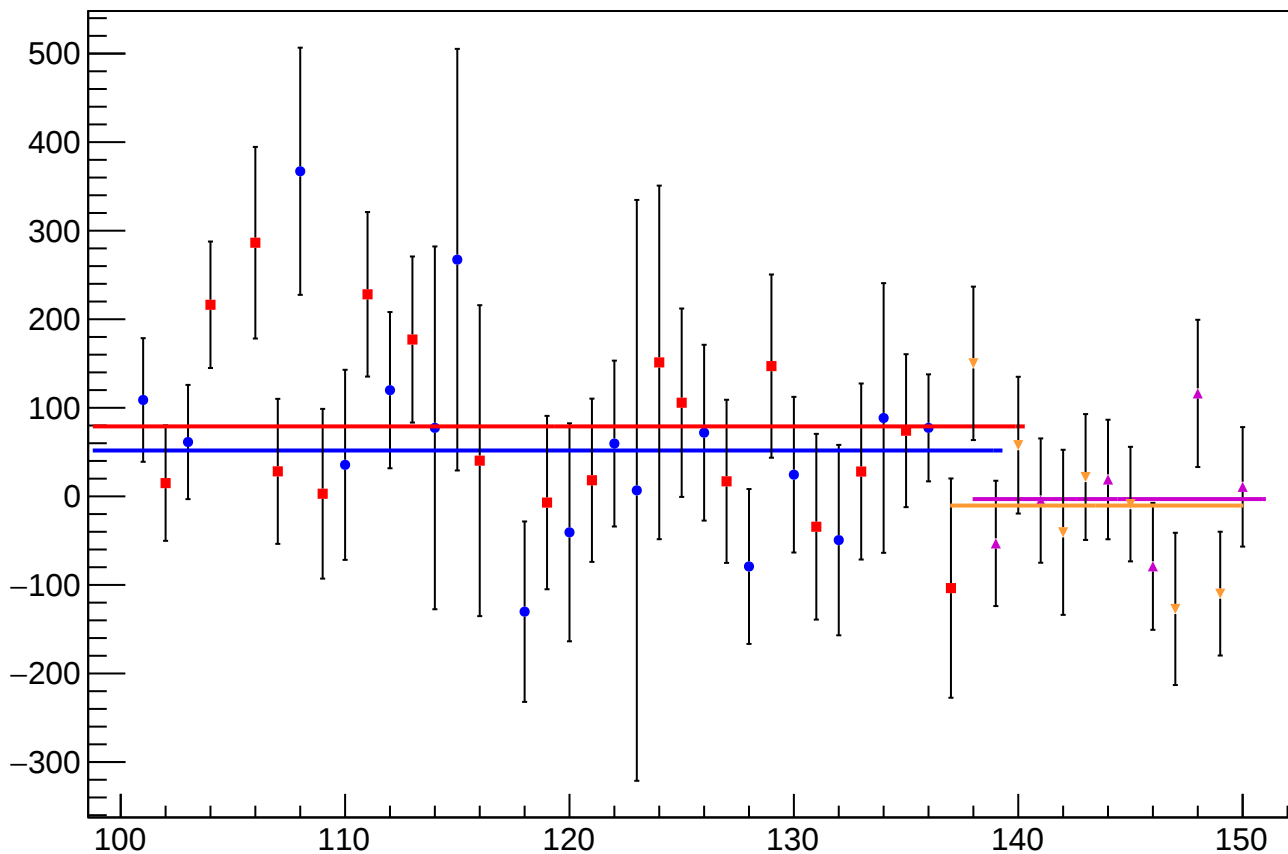
Right: 183.707+/-0.042  $\chi^2/\text{NDF}$ : 7624855.0/34

In: 225.960+/-0.052  $\chi^2/\text{NDF}$ :4115926.8/22

Out: 196.277+/-0.045  $\chi^2/\text{NDF}$ :4961068.2/24

All: 209.056+/-0.034  $\chi^2/\text{NDF}$ : 9264712.9/47

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 51.799 $\pm$ 23.538  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: -10.379 $\pm$ 28.950  $\chi^2/\text{NDF}$ : 8.4/6

Right Out: 79.008 $\pm$ 22.499  $\chi^2/\text{NDF}$ : 19.0/17

Left In: -3.059 $\pm$ 29.093  $\chi^2/\text{NDF}$ : 3.8/5

Left: -6.737 $\pm$ 20.521  $\chi^2/\text{NDF}$ : 12.3/12

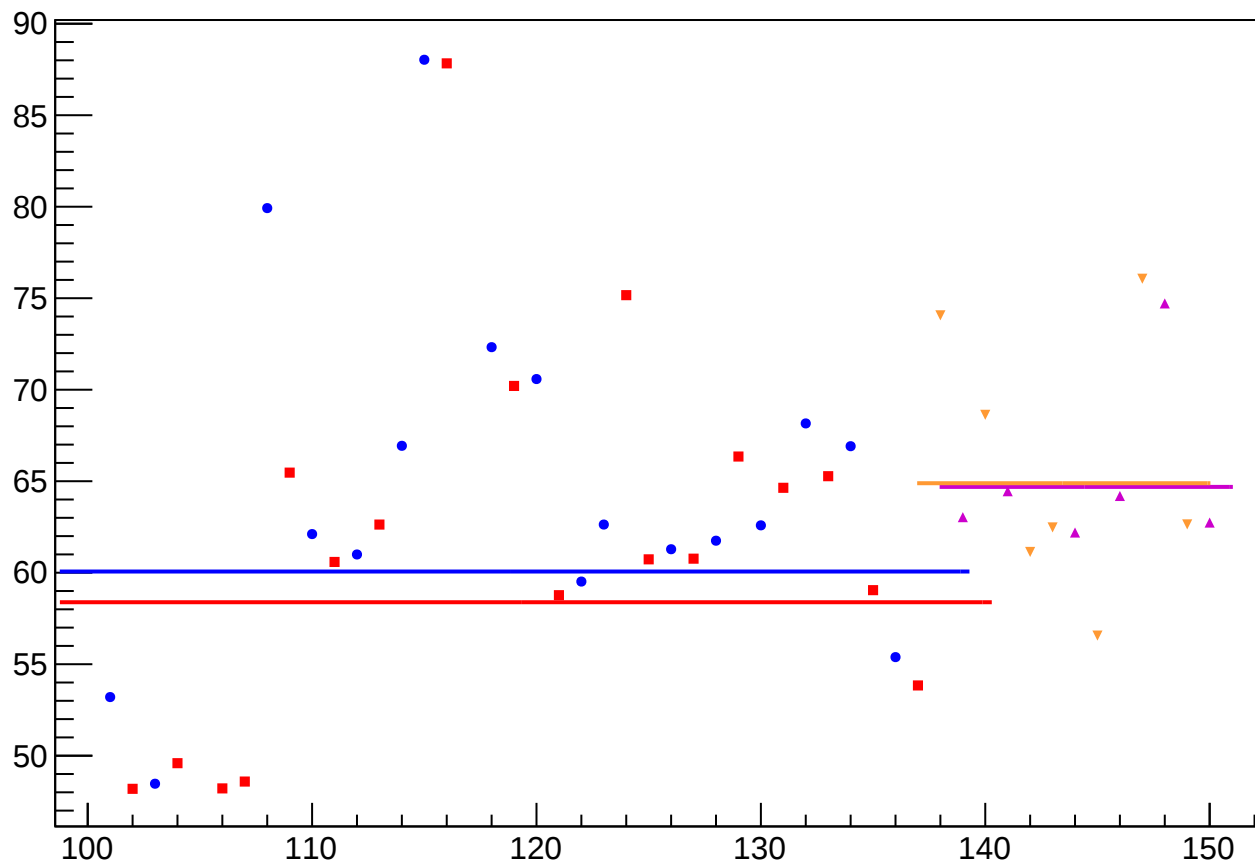
Right: 66.018 $\pm$ 16.264  $\chi^2/\text{NDF}$ : 34.2/34

In: 30.097 $\pm$ 18.299  $\chi^2/\text{NDF}$ : 20.5/22

Out: 45.348 $\pm$ 17.765  $\chi^2/\text{NDF}$ : 33.3/24

All: 37.948 $\pm$ 12.746  $\chi^2/\text{NDF}$ : 54.2/47

dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 60.065 $\pm$ 0.017  $\chi^2$ /NDF: 229098.7/16

Left Out: 64.890 $\pm$ 0.020  $\chi^2$ /NDF: 101693.3/6

Right Out: 58.387 $\pm$ 0.016  $\chi^2$ /NDF: 275017.2/17

Left In: 64.690 $\pm$ 0.021  $\chi^2$ /NDF: 34695.6/5

Left: 64.791 $\pm$ 0.015  $\chi^2$ /NDF: 136436.7/12

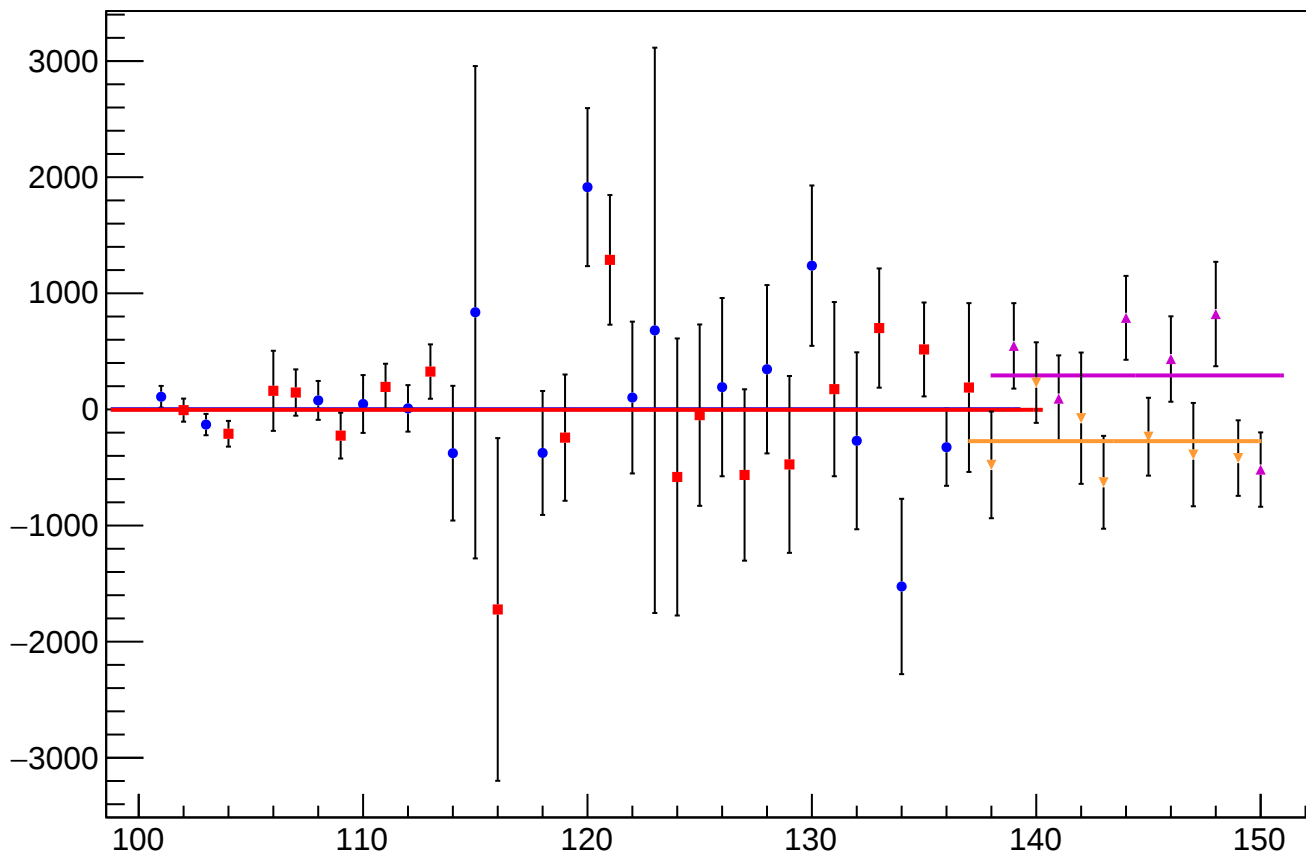
Right: 59.188 $\pm$ 0.012  $\chi^2$ /NDF: 509429.8/34

In: 61.895 $\pm$ 0.013  $\chi^2$ /NDF: 294333.3/22

Out: 60.836 $\pm$ 0.013  $\chi^2$ /NDF: 439635.9/24

All: 61.350 $\pm$ 0.009  $\chi^2$ /NDF: 737416.6/47

asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 1.581+/-54.284  $\chi^2/\text{NDF}$ : 21.4/16

Left Out: -273.162+/-147.729  $\chi^2/\text{NDF}$ : 3.5/6

Right Out: -3.242+/-56.611  $\chi^2/\text{NDF}$ : 20.2/17

Left In: 292.659+/-150.144  $\chi^2/\text{NDF}$ : 10.6/5

Left: 5.161+/-105.304  $\chi^2/\text{NDF}$ : 21.3/12

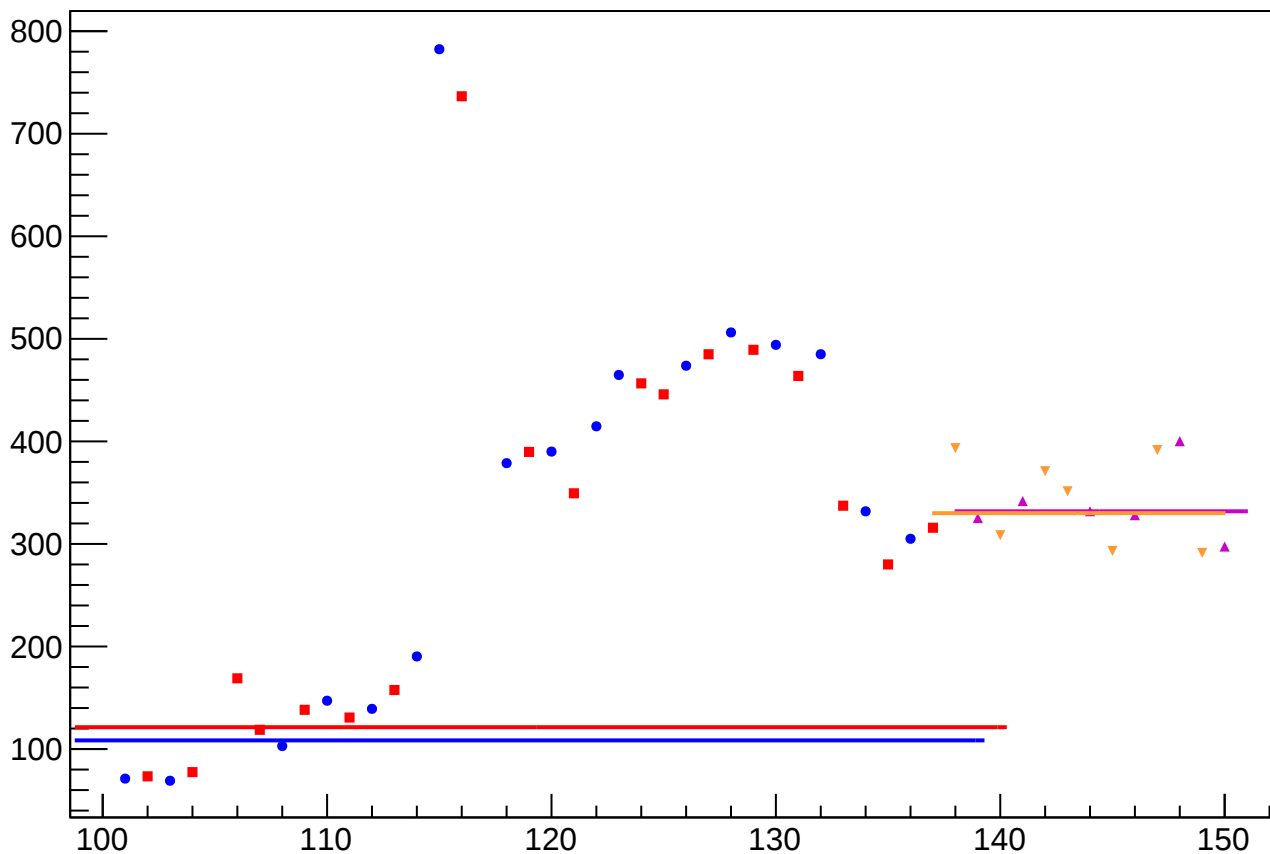
Right: -0.730+/-39.182  $\chi^2/\text{NDF}$ : 41.6/34

In: 35.230+/-51.050  $\chi^2/\text{NDF}$ : 35.3/22

Out: -37.804+/-52.863  $\chi^2/\text{NDF}$ : 26.6/24

All: -0.013+/-36.722  $\chi^2/\text{NDF}$ : 62.9/47

asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 108.445 $\pm$ 0.038  $\chi^2$ /NDF: 5404107.9/16

Left Out: 330.011 $\pm$ 0.104  $\chi^2$ /NDF: 152758.9/6

Right Out: 121.303 $\pm$ 0.040  $\chi^2$ /NDF: 4731568.2/17

Left In: 331.839 $\pm$ 0.106  $\chi^2$ /NDF: 71624.7/5

Left: 330.910 $\pm$ 0.074  $\chi^2$ /NDF: 224534.3/12

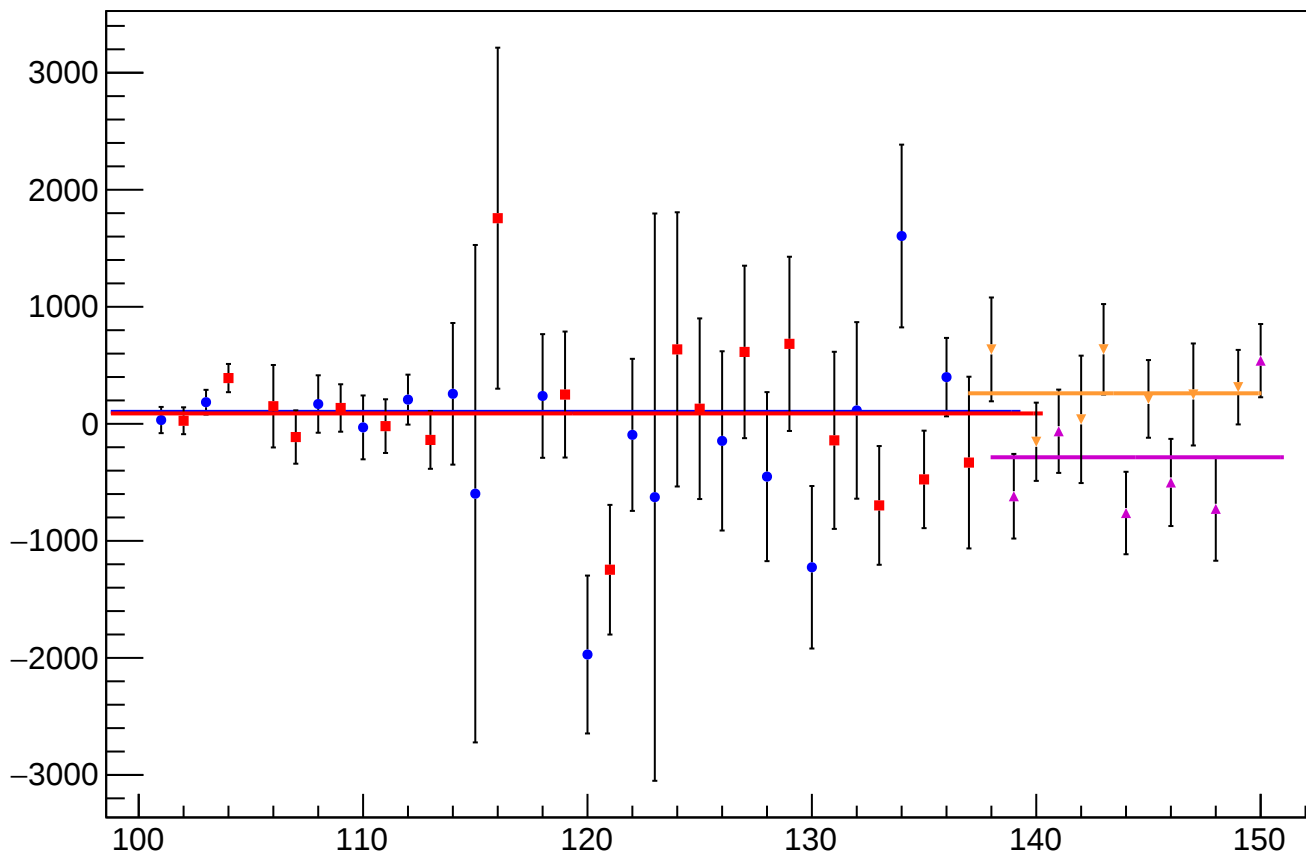
Right: 114.604 $\pm$ 0.028  $\chi^2$ /NDF: 10189429.3/34

In: 134.270 $\pm$ 0.036  $\chi^2$ /NDF: 9391371.0/22

Out: 148.028 $\pm$ 0.037  $\chi^2$ /NDF: 8365038.2/24

All: 140.909 $\pm$ 0.026  $\chi^2$ /NDF: 17826500.0/47

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.221 $\pm$ 63.127  $\chi^2$ /NDF: 20.3/16

Left Out: 260.831 $\pm$ 143.867  $\chi^2$ /NDF:3.4/6

Right Out: 88.841 $\pm$ 62.230  $\chi^2$ /NDF: 21.7/17

Left In: -285.627 $\pm$ 147.257  $\chi^2$ /NDF:11.3/5

Left: -6.037 $\pm$ 102.907  $\chi^2$ /NDF: 21.8/12

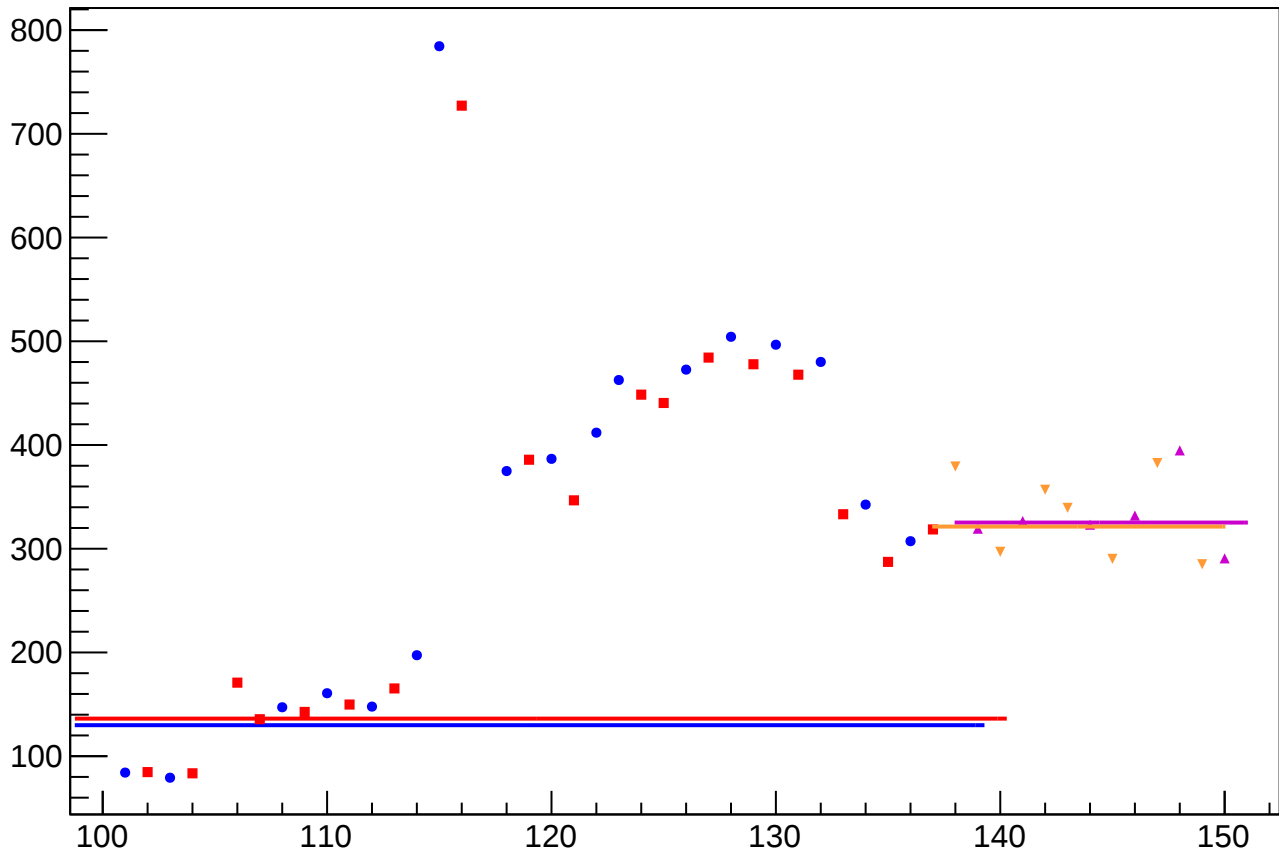
Right: 95.435 $\pm$ 44.317  $\chi^2$ /NDF: 42.0/34

In: 42.010 $\pm$ 58.021  $\chi^2$ /NDF:37.5/22

Out: 115.949 $\pm$ 57.116  $\chi^2$ /NDF:26.4/24

All: 79.560 $\pm$ 40.703  $\chi^2$ /NDF: 64.7/47

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 321.357+/-0.102  $\chi^2/\text{NDF}$ : 140642.5/6

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

Left In: 325.230+/-0.104  $\chi^2/\text{NDF}$ : 74826.6/5

Left: 323.248+/-0.073  $\chi^2/\text{NDF}$ : 216177.0/12

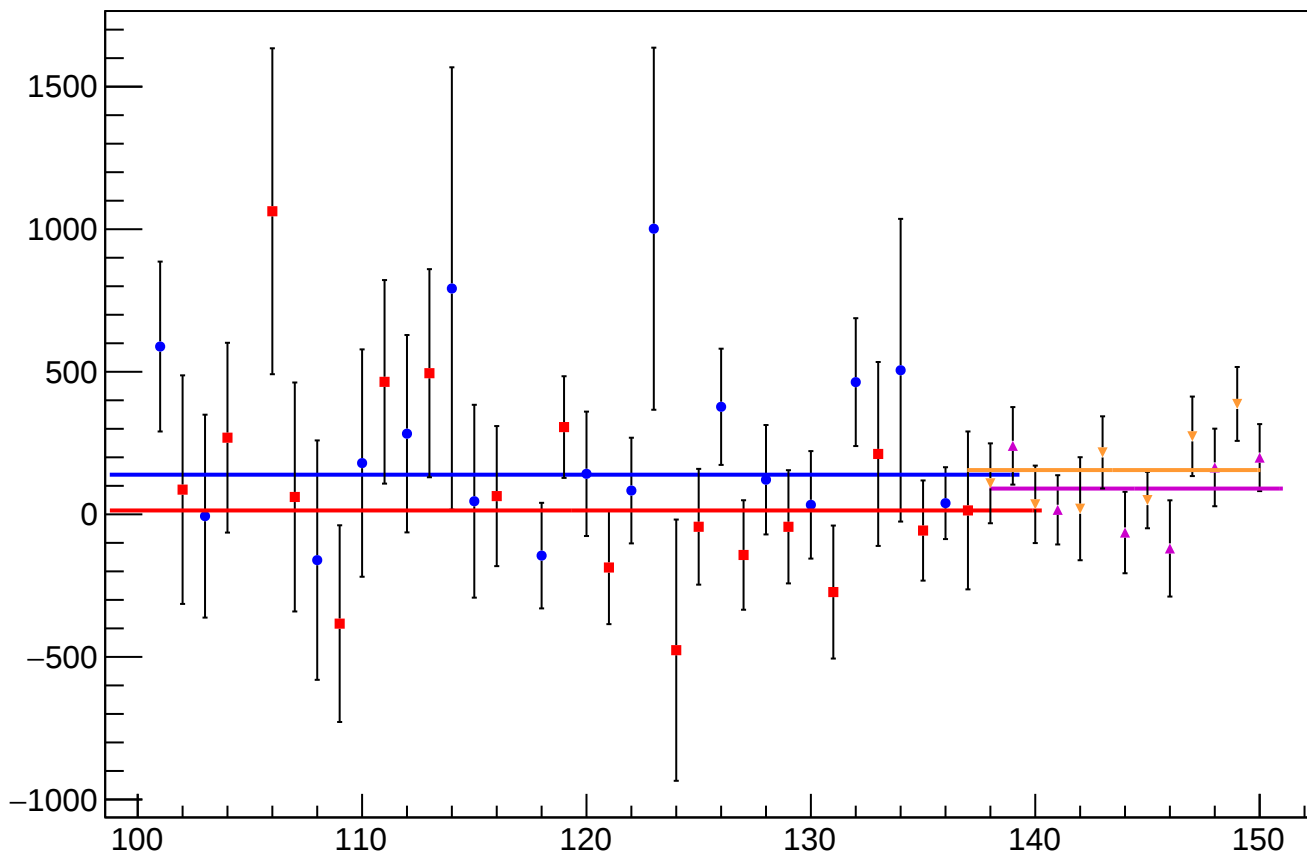
Right: 133.100+/-0.031  $\chi^2/\text{NDF}$ : 9122555.3/34

In: 160.210+/-0.041  $\chi^2/\text{NDF}$ : 7877519.3/22

Out: 165.404+/-0.040  $\chi^2/\text{NDF}$ : 7213288.5/24

All: 162.848+/-0.029  $\chi^2/\text{NDF}$ : 15098946.8/47

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: 155.277 $\pm$ 49.310  $\chi^2$ /NDF: 6.8/6

Right Out: 13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

Left In: 90.403 $\pm$ 54.846  $\chi^2$ /NDF: 5.5/5

Left: 126.278 $\pm$ 36.669  $\chi^2$ /NDF: 13.0/12

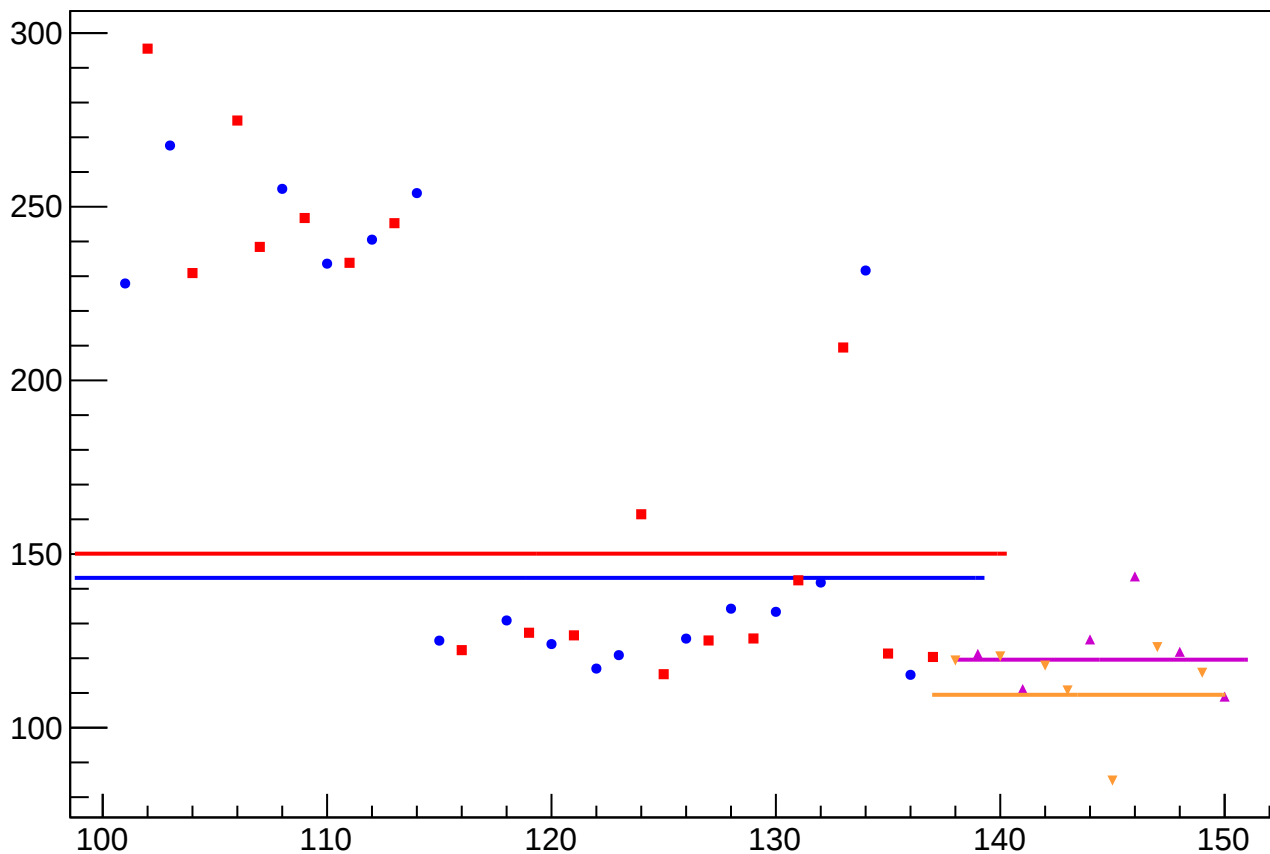
Right: 78.643 $\pm$ 41.737  $\chi^2$ /NDF: 31.8/34

In: 113.396 $\pm$ 39.844  $\chi^2$ /NDF: 18.9/22

Out: 98.322 $\pm$ 38.128  $\chi^2$ /NDF: 26.5/24

All: 105.527 $\pm$ 27.547  $\chi^2$ /NDF: 45.5/47

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 143.140 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1101269.0/16

Left Out: 109.475 $\pm$ 0.035  $\chi^2/\text{NDF}$ :176423.3/6

Right Out: 150.109 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 1332775.0/17

Left In: 119.584 $\pm$ 0.039  $\chi^2/\text{NDF}$ :70593.7/5

Left: 113.994 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 284590.2/12

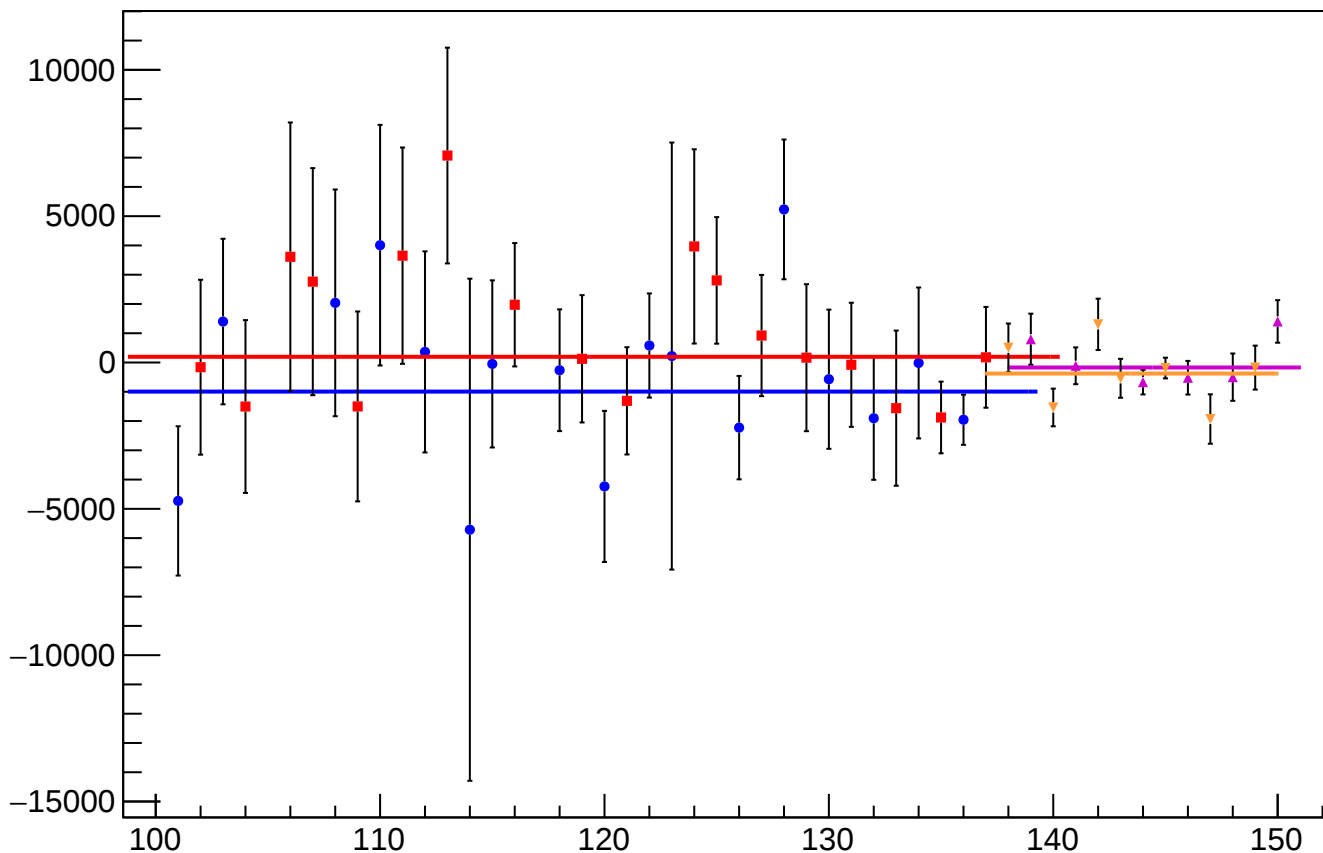
Right: 146.498 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 2447968.1/34

In: 130.708 $\pm$ 0.028  $\chi^2/\text{NDF}$ :1346074.8/22

Out: 125.814 $\pm$ 0.027  $\chi^2/\text{NDF}$ :2055316.7/24

All: 128.153 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 3417136.5/47

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: -377.868+/-231.868  $\chi^2/\text{NDF}$ : 11.8/6

Right Out: 195.049+/-543.821  $\chi^2/\text{NDF}$ : 13.5/17

Left In: -169.836+/-250.491  $\chi^2/\text{NDF}$ : 7.9/5

Left: -281.872+/-170.159  $\chi^2/\text{NDF}$ : 20.1/12

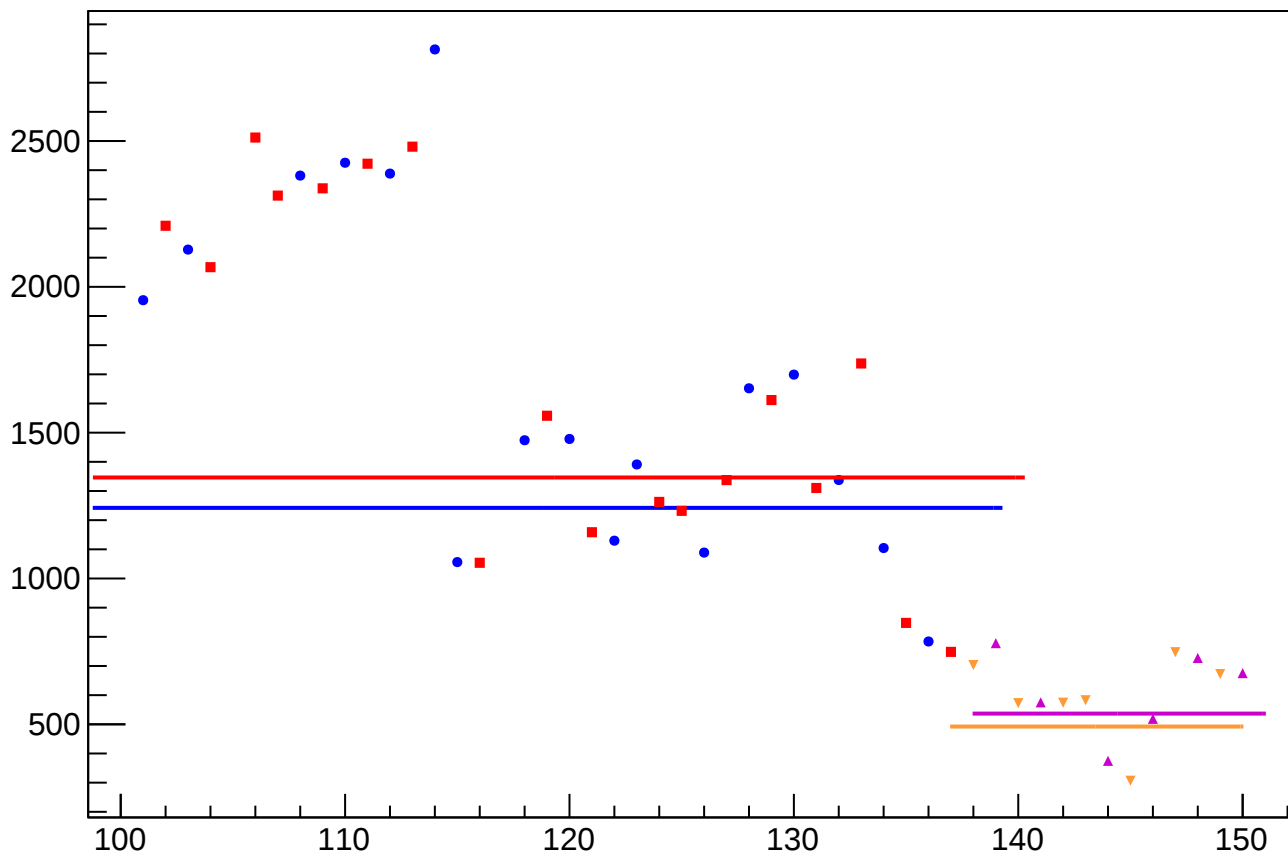
Right: -430.023+/-374.493  $\chi^2/\text{NDF}$ : 33.0/34

In: -326.748+/-225.381  $\chi^2/\text{NDF}$ : 26.9/22

Out: -289.739+/-213.290  $\chi^2/\text{NDF}$ : 26.3/24

All: -307.224+/-154.917  $\chi^2/\text{NDF}$ : 53.2/47

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 492.381 $\pm$ 0.164  $\chi^2$ /NDF:1063887.8/6

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

Left In: 536.768 $\pm$ 0.177  $\chi^2$ /NDF:643151.0/5

Left: 512.864 $\pm$ 0.120  $\chi^2$ /NDF: 1740860.6/12

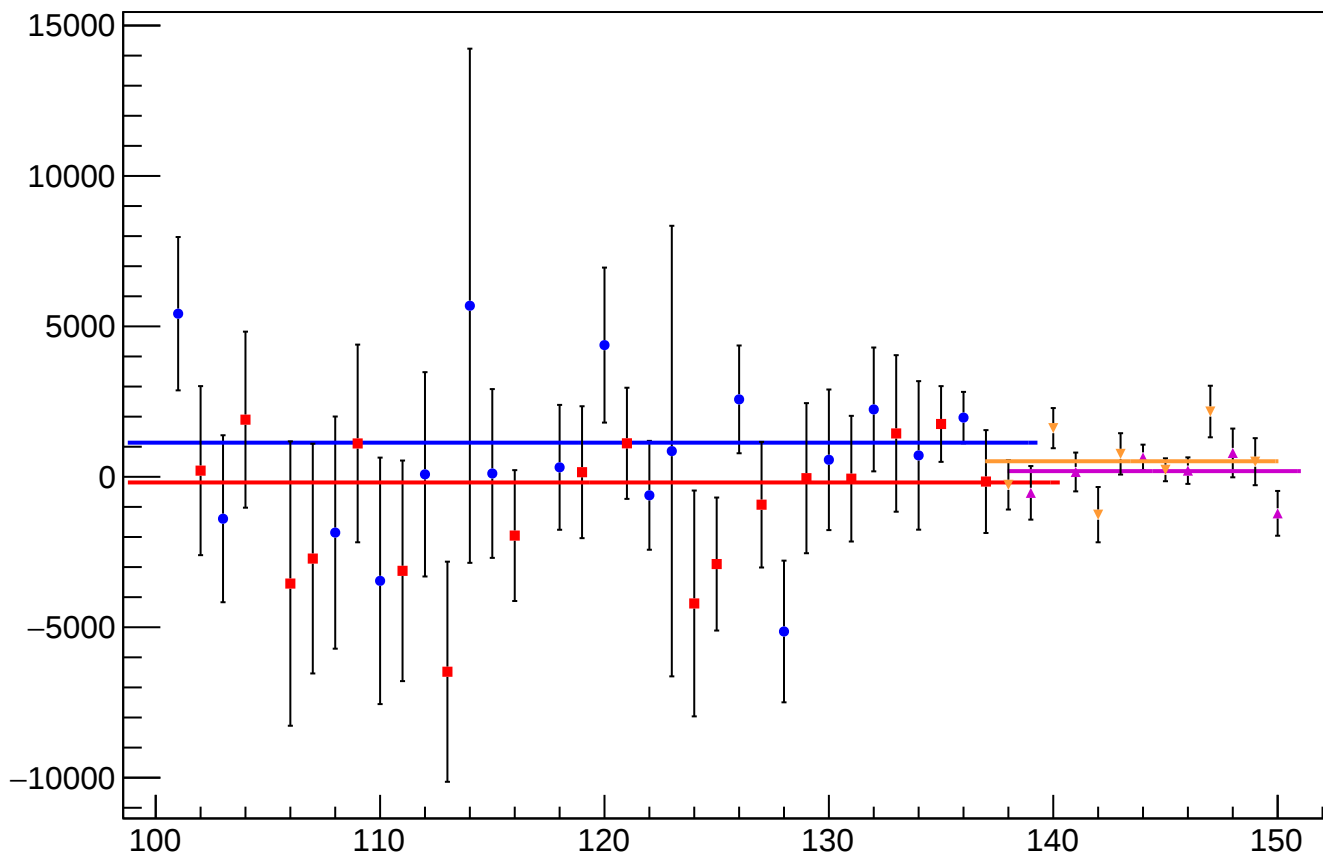
Right: 1291.570 $\pm$ 0.265  $\chi^2$ /NDF: 3615166.4/34

In: 671.105 $\pm$ 0.159  $\chi^2$ /NDF:5431058.2/22

Out: 623.742 $\pm$ 0.151  $\chi^2$ /NDF:7046075.9/24

All: 646.119 $\pm$ 0.110  $\chi^2$ /NDF: 12523727.9/47

# asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 1135.222+/-513.770  $\chi^2/\text{NDF}$ : 17.8/16

Left Out: 517.422+/-243.095  $\chi^2/\text{NDF}$ : 11.8/6

Right Out: -187.508+/-548.191  $\chi^2/\text{NDF}$ : 12.0/17

Left In: 189.330+/-237.964  $\chi^2/\text{NDF}$ : 5.9/5

Left: 349.877+/-170.051  $\chi^2/\text{NDF}$ : 18.6/12

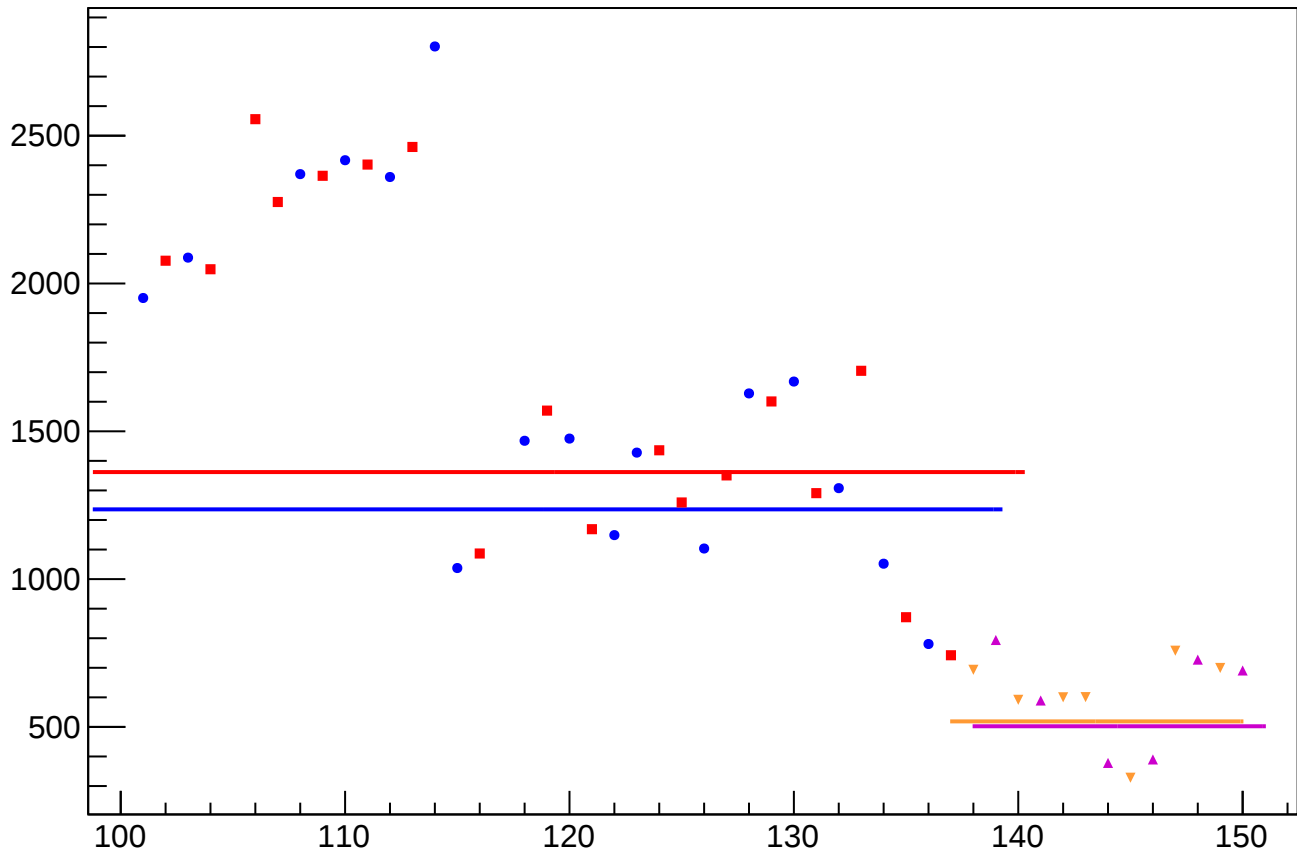
Right: 516.685+/-374.869  $\chi^2/\text{NDF}$ : 32.9/34

In: 356.408+/-215.927  $\chi^2/\text{NDF}$ : 26.5/22

Out: 401.579+/-222.225  $\chi^2/\text{NDF}$ : 25.1/24

All: 378.344+/-154.862  $\chi^2/\text{NDF}$ : 51.6/47

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 518.696+/-0.172  $\chi^2/\text{NDF}$ : 921760.6/6

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

Left In: 502.204+/-0.168  $\chi^2/\text{NDF}$ : 834234.1/5

Left: 510.274+/-0.120  $\chi^2/\text{NDF}$ : 1760695.3/12

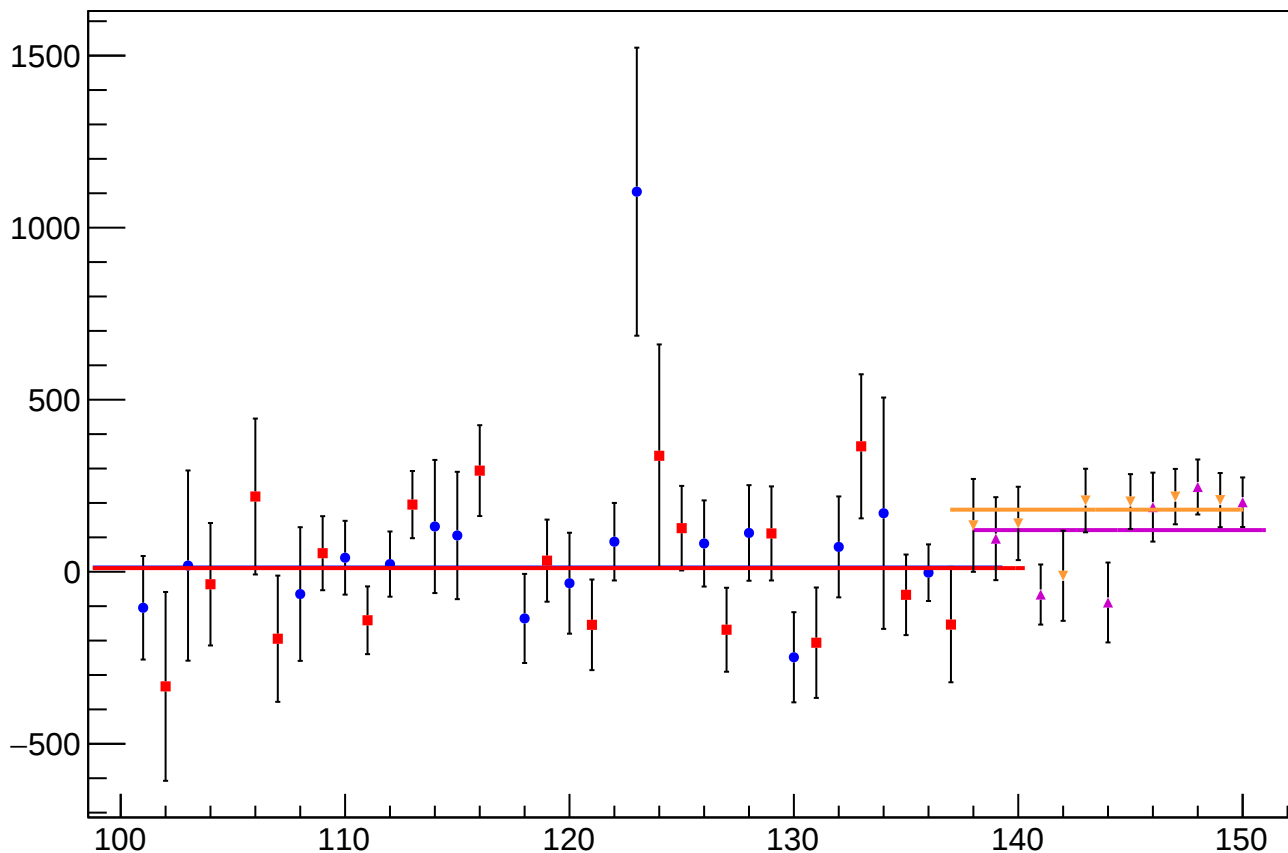
Right: 1294.931+/-0.265  $\chi^2/\text{NDF}$ : 3511356.6/34

In: 631.807+/-0.153  $\chi^2/\text{NDF}$ : 5938580.5/22

Out: 657.294+/-0.157  $\chi^2/\text{NDF}$ : 6587068.3/24

All: 644.184+/-0.110  $\chi^2/\text{NDF}$ : 12539179.7/47

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 12.308+/-33.228  $\chi^2/\text{NDF}$ : 15.4/16

Left Out: 180.418+/-35.534  $\chi^2/\text{NDF}$ : 2.9/6

Right Out: 10.591+/-32.606  $\chi^2/\text{NDF}$ : 26.7/17

Left In: 121.086+/-37.197  $\chi^2/\text{NDF}$ : 12.1/5

Left: 152.107+/-25.694  $\chi^2/\text{NDF}$ : 16.3/12

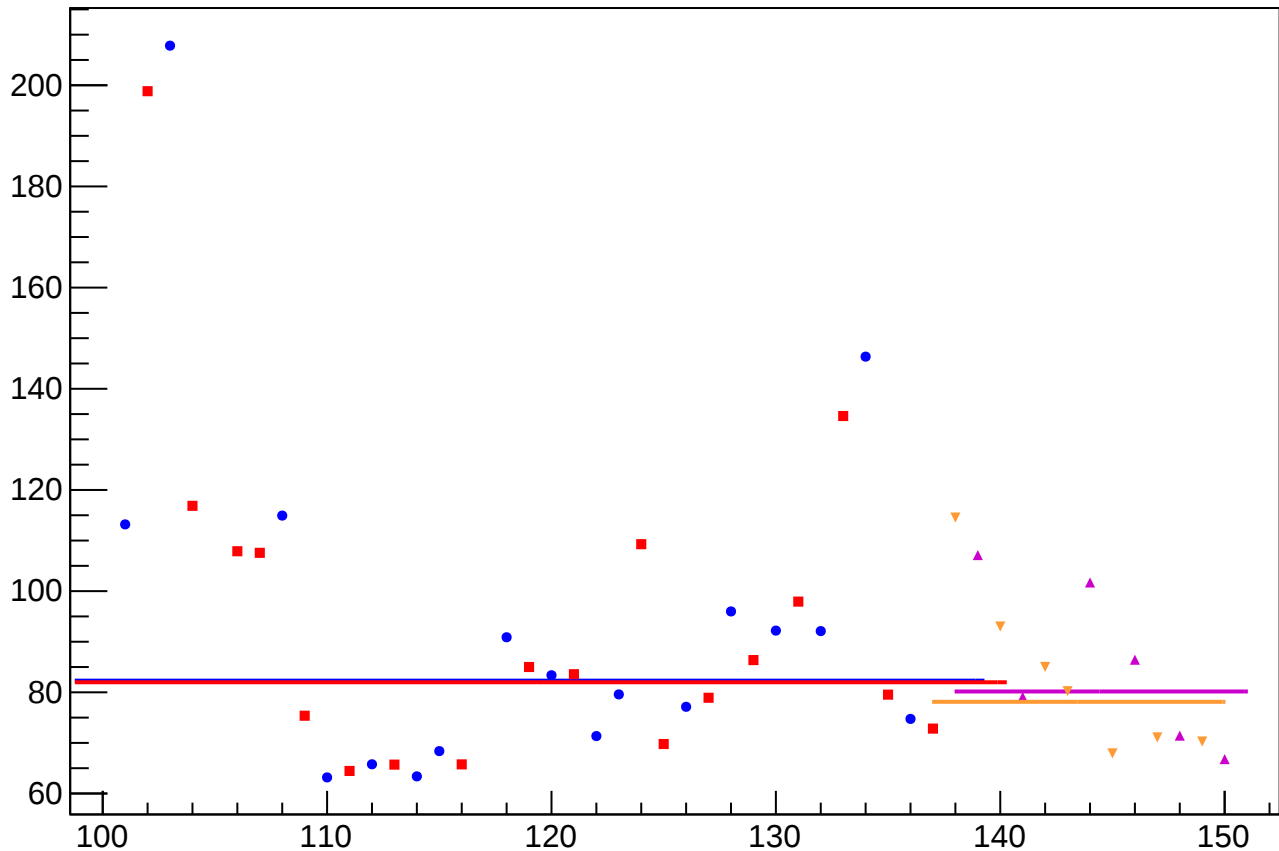
Right: 11.434+/-23.273  $\chi^2/\text{NDF}$ : 42.1/34

In: 60.586+/-24.780  $\chi^2/\text{NDF}$ : 32.2/22

Out: 88.219+/-24.025  $\chi^2/\text{NDF}$ : 42.1/24

All: 74.831+/-17.249  $\chi^2/\text{NDF}$ : 74.9/47

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: 78.122 $\pm$ 0.025  $\chi^2$ /NDF: 259274.2/6

Right Out: 81.987 $\pm$ 0.023  $\chi^2$ /NDF: 853217.2/17

Left In: 80.164 $\pm$ 0.026  $\chi^2$ /NDF: 269860.0/5

Left: 79.096 $\pm$ 0.018  $\chi^2$ /NDF: 532286.1/12

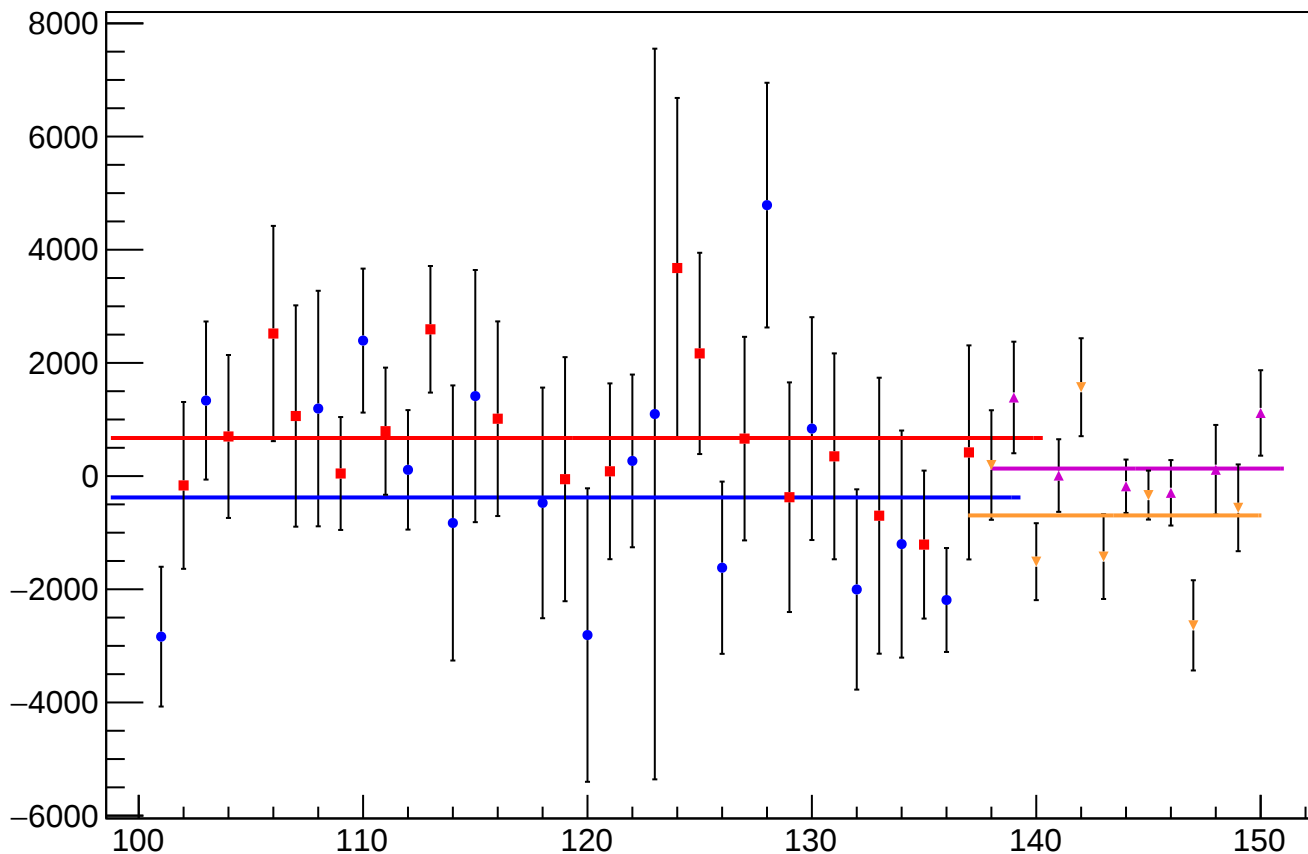
Right: 82.144 $\pm$ 0.016  $\chi^2$ /NDF: 1722053.3/34

In: 81.355 $\pm$ 0.018  $\chi^2$ /NDF: 1142290.7/22

Out: 80.220 $\pm$ 0.017  $\chi^2$ /NDF: 1125340.7/24

All: 80.770 $\pm$ 0.012  $\chi^2$ /NDF: 2269793.6/47

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -377.330+/-383.897  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: -694.915+/-258.492  $\chi^2/\text{NDF}$ :16.7/6

Right Out: 673.192+/-368.624  $\chi^2/\text{NDF}$ : 9.4/17

Left In: 133.030+/-264.549  $\chi^2/\text{NDF}$ :4.3/5

Left: -290.530+/-184.886  $\chi^2/\text{NDF}$ : 26.1/12

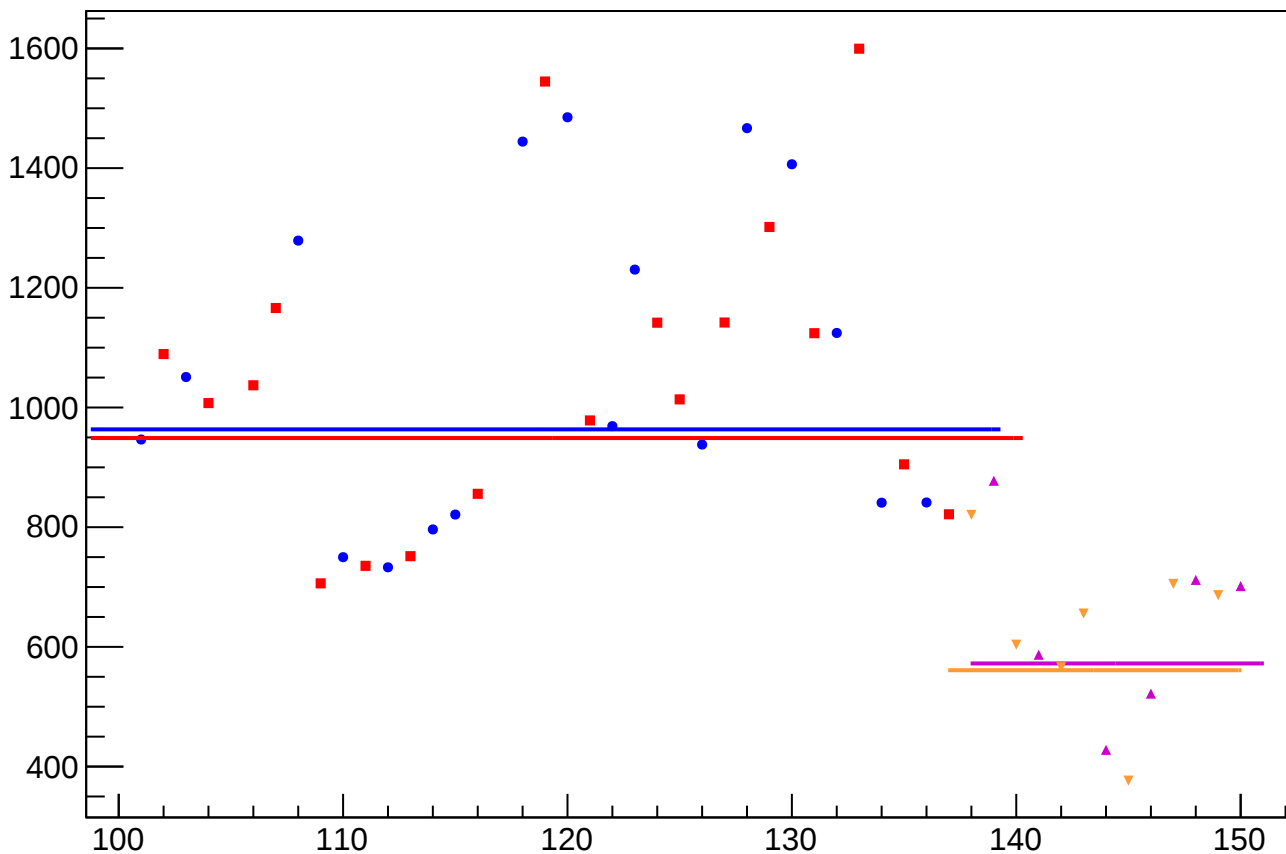
Right: 169.244+/-265.892  $\chi^2/\text{NDF}$ : 37.7/34

In: -31.295+/-217.835  $\chi^2/\text{NDF}$ :30.0/22

Out: -243.935+/-211.642  $\chi^2/\text{NDF}$ :35.4/24

All: -140.681+/-151.796  $\chi^2/\text{NDF}$ : 65.8/47

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: 561.006+/-0.183  $\chi^2/\text{NDF}$ : 666344.1/6

Right Out: 948.947+/-0.261  $\chi^2/\text{NDF}$ : 729378.3/17

Left In: 572.325+/-0.187  $\chi^2/\text{NDF}$ : 516086.2/5

Left: 566.535+/-0.131  $\chi^2/\text{NDF}$ : 1184303.5/12

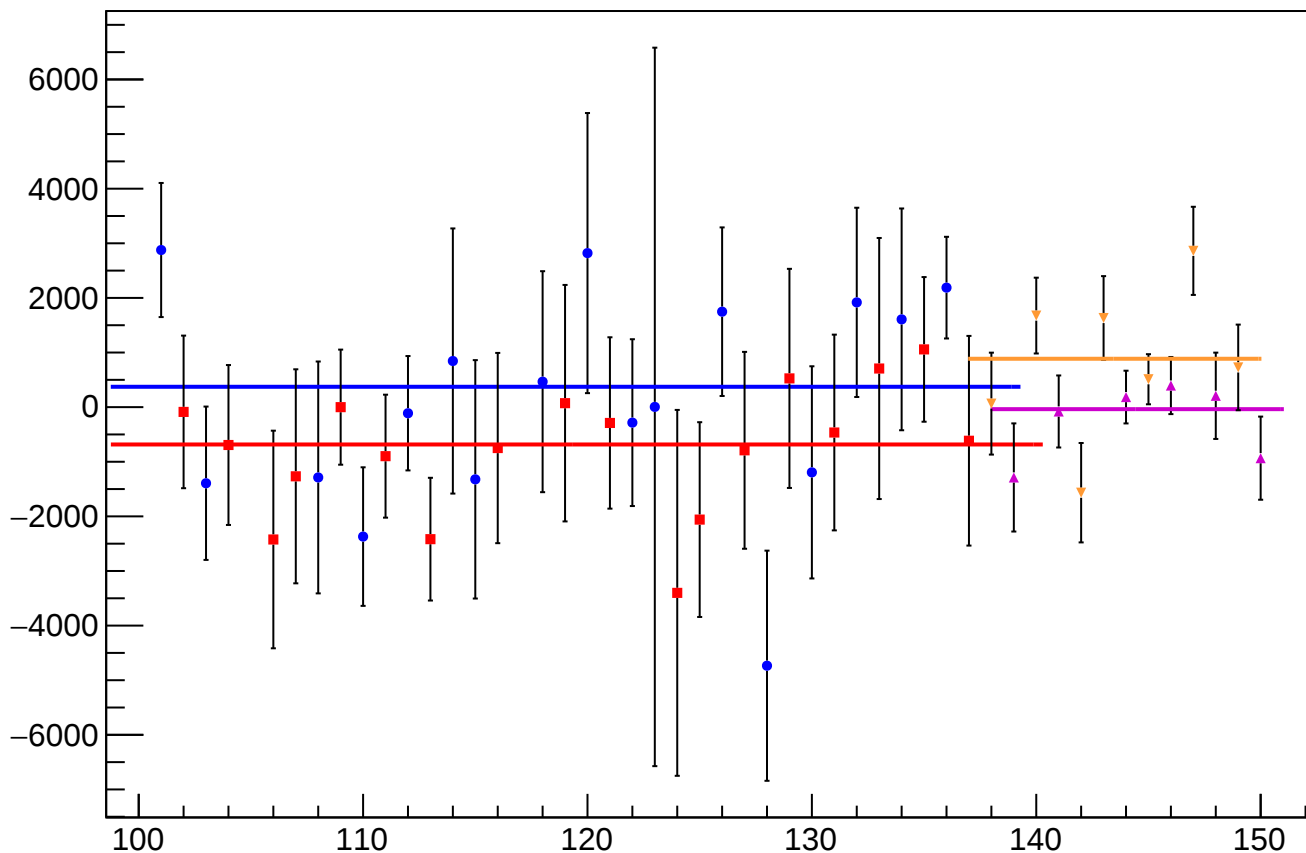
Right: 955.914+/-0.188  $\chi^2/\text{NDF}$ : 1419740.5/34

In: 698.265+/-0.154  $\chi^2/\text{NDF}$ : 2612679.7/22

Out: 688.886+/-0.150  $\chi^2/\text{NDF}$ : 2880648.6/24

All: 693.441+/-0.107  $\chi^2/\text{NDF}$ : 5495235.5/47

# 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: 885.939 $\pm$ 266.845  $\chi^2/\text{NDF}$ : 17.0/6

Right Out: -683.612 $\pm$ 372.418  $\chi^2/\text{NDF}$ : 7.8/17

Left In: -36.857 $\pm$ 261.745  $\chi^2/\text{NDF}$ : 4.0/5

Left: 415.638 $\pm$ 186.859  $\chi^2/\text{NDF}$ : 27.1/12

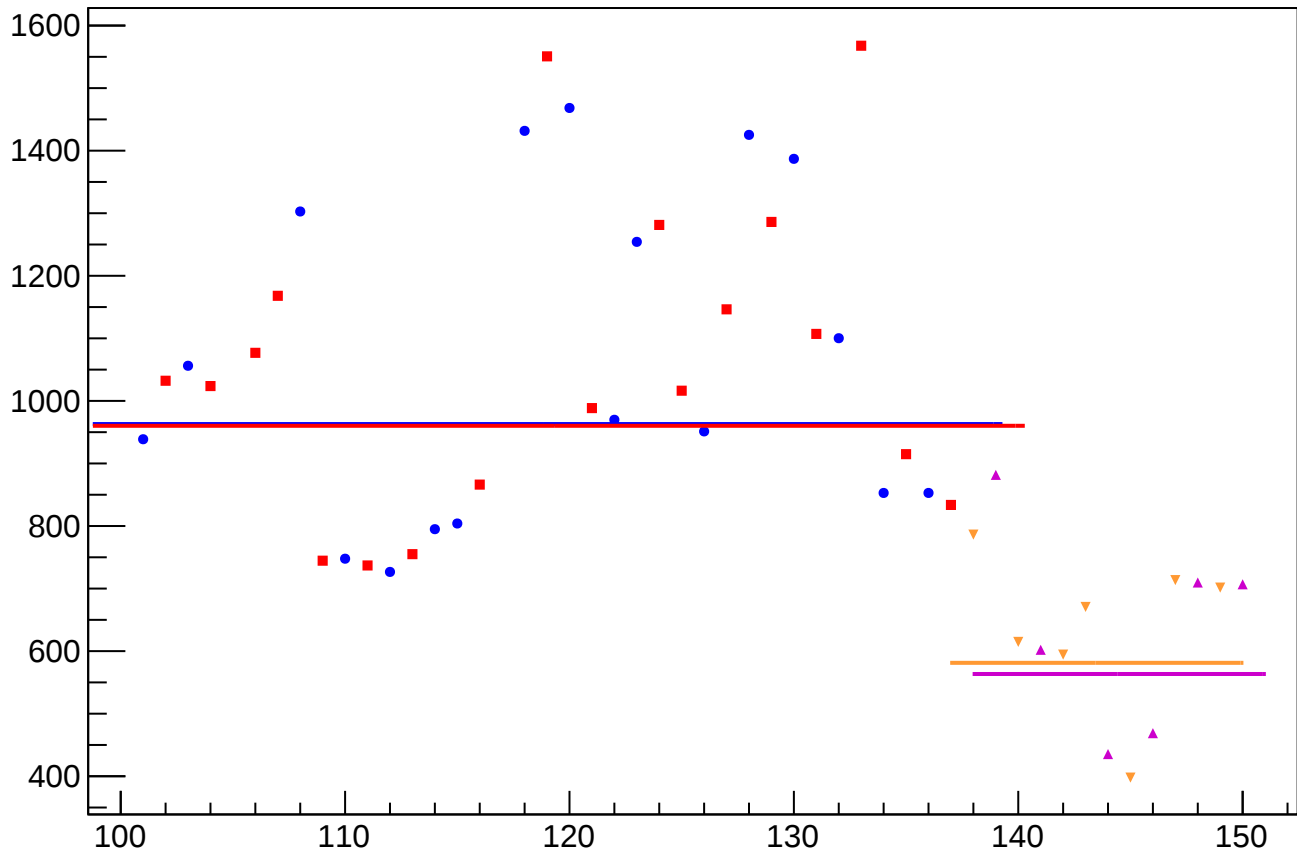
Right: -171.066 $\pm$ 267.226  $\chi^2/\text{NDF}$ : 36.9/34

In: 93.285 $\pm$ 216.220  $\chi^2/\text{NDF}$ : 30.0/22

Out: 353.488 $\pm$ 216.911  $\chi^2/\text{NDF}$ : 36.5/24

All: 222.971 $\pm$ 153.134  $\chi^2/\text{NDF}$ : 67.2/47

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 581.297 $\pm$ 0.189  $\chi^2$ /NDF: 549179.7/6

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

Left In: 563.450 $\pm$ 0.185  $\chi^2$ /NDF: 559290.8/5

Left: 572.201 $\pm$ 0.132  $\chi^2$ /NDF: 1113029.7/12

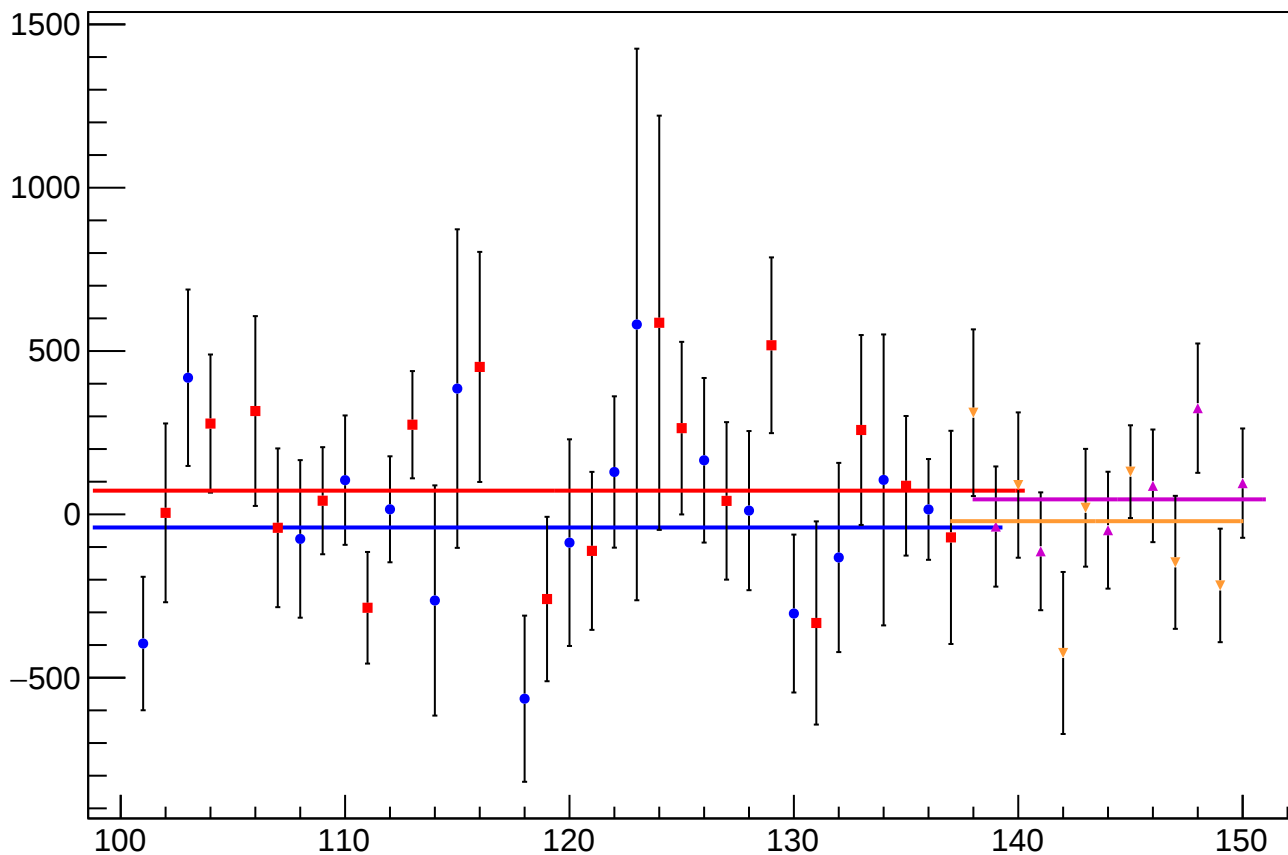
Right: 961.553 $\pm$ 0.189  $\chi^2$ /NDF: 1338584.2/34

In: 690.342 $\pm$ 0.153  $\chi^2$ /NDF: 2706754.1/22

Out: 709.841 $\pm$ 0.153  $\chi^2$ /NDF: 2588270.0/24

All: 700.060 $\pm$ 0.108  $\chi^2$ /NDF: 5303131.0/47

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: -20.876 $\pm$ 72.657  $\chi^2/\text{NDF}$ : 7.4/6

Right Out: 72.607 $\pm$ 56.313  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 45.921 $\pm$ 73.248  $\chi^2/\text{NDF}$ : 3.4/5

Left: 12.252 $\pm$ 51.584  $\chi^2/\text{NDF}$ : 11.3/12

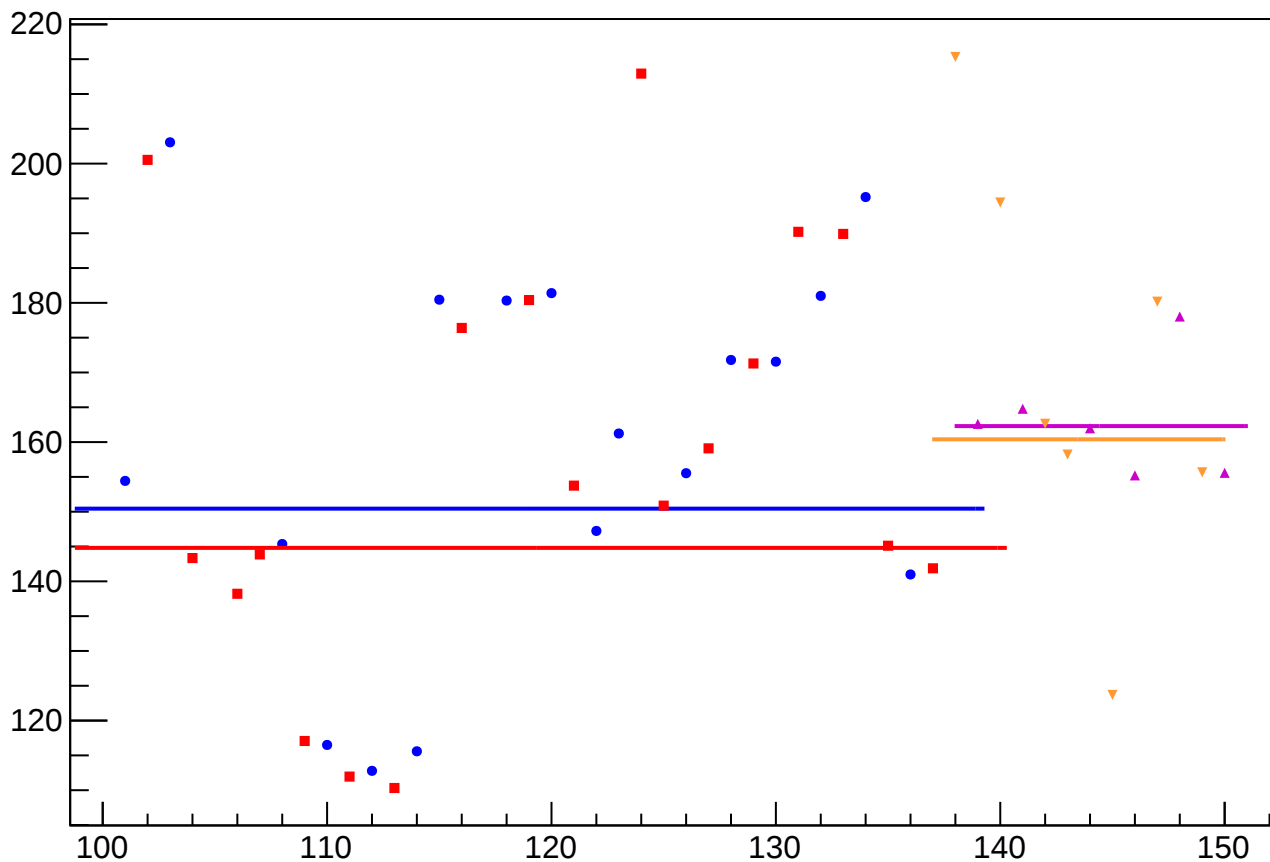
Right: 19.111 $\pm$ 40.820  $\chi^2/\text{NDF}$ : 34.8/34

In: -6.086 $\pm$ 46.069  $\chi^2/\text{NDF}$ : 19.6/22

Out: 37.525 $\pm$ 44.510  $\chi^2/\text{NDF}$ : 26.1/24

All: 16.470 $\pm$ 32.010  $\chi^2/\text{NDF}$ : 46.1/47

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: 160.397 $\pm$ 0.051  $\chi^2$ /NDF:293884.6/6

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

Left In: 162.299 $\pm$ 0.052  $\chi^2$ /NDF:19617.2/5

Left: 161.340 $\pm$ 0.036  $\chi^2$ /NDF: 314181.2/12

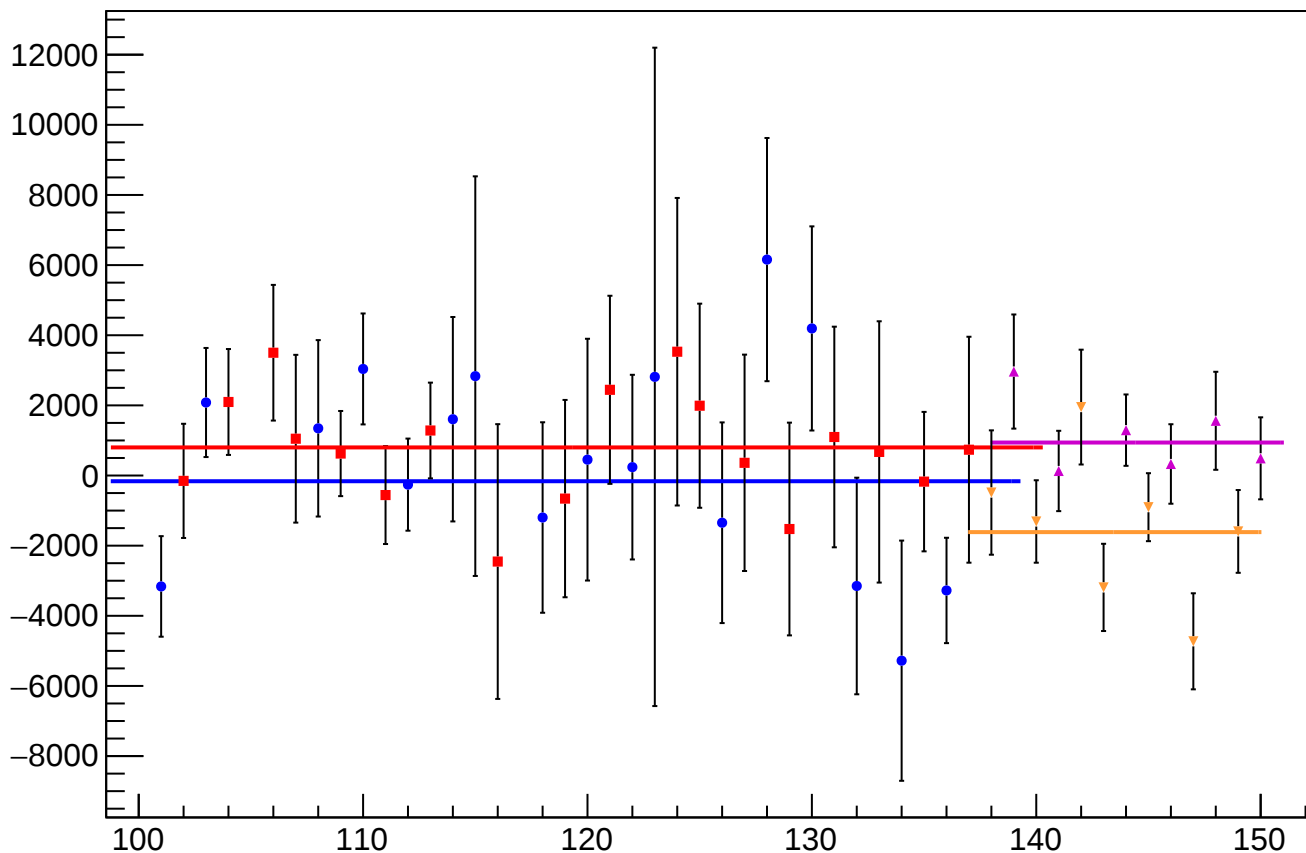
Right: 147.481 $\pm$ 0.029  $\chi^2$ /NDF: 913486.7/34

In: 155.132 $\pm$ 0.033  $\chi^2$ /NDF:451415.5/22

Out: 150.658 $\pm$ 0.031  $\chi^2$ /NDF:855273.5/24

All: 152.818 $\pm$ 0.023  $\chi^2$ /NDF: 1316446.1/47

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -162.807+/-533.165  $\chi^2/\text{NDF}$ : 25.1/16

Left Out: -1613.759+/-478.003  $\chi^2/\text{NDF}$ : 12.5/6

Right Out: 801.139+/-486.610  $\chi^2/\text{NDF}$ : 6.9/17

Left In: 940.460+/-492.197  $\chi^2/\text{NDF}$ : 2.8/5

Left: -374.012+/-342.907  $\chi^2/\text{NDF}$ : 29.2/12

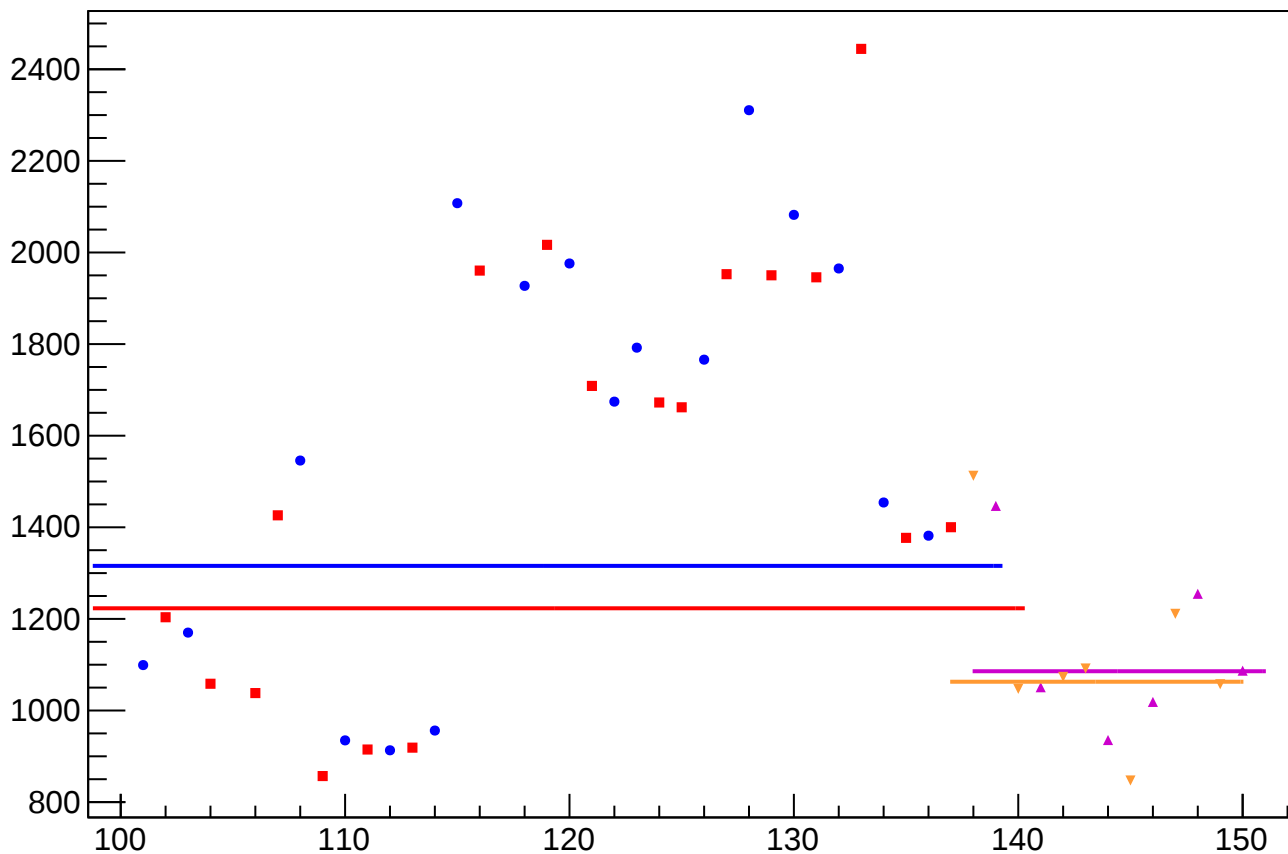
Right: 363.081+/-359.419  $\chi^2/\text{NDF}$ : 33.7/34

In: 432.836+/-361.653  $\chi^2/\text{NDF}$ : 30.2/22

Out: -427.857+/-341.001  $\chi^2/\text{NDF}$ : 31.9/24

All: -22.785+/-248.104  $\chi^2/\text{NDF}$ : 65.1/47

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1315.784+/-0.377  $\chi^2/\text{NDF}$ : 1118346.6/16

Left Out: 1062.831+/-0.338  $\chi^2/\text{NDF}$ : 252599.4/6

Right Out: 1223.179+/-0.344  $\chi^2/\text{NDF}$ : 1363055.0/17

Left In: 1085.739+/-0.348  $\chi^2/\text{NDF}$ : 180128.3/5

Left: 1073.950+/-0.242  $\chi^2/\text{NDF}$ : 434957.2/12

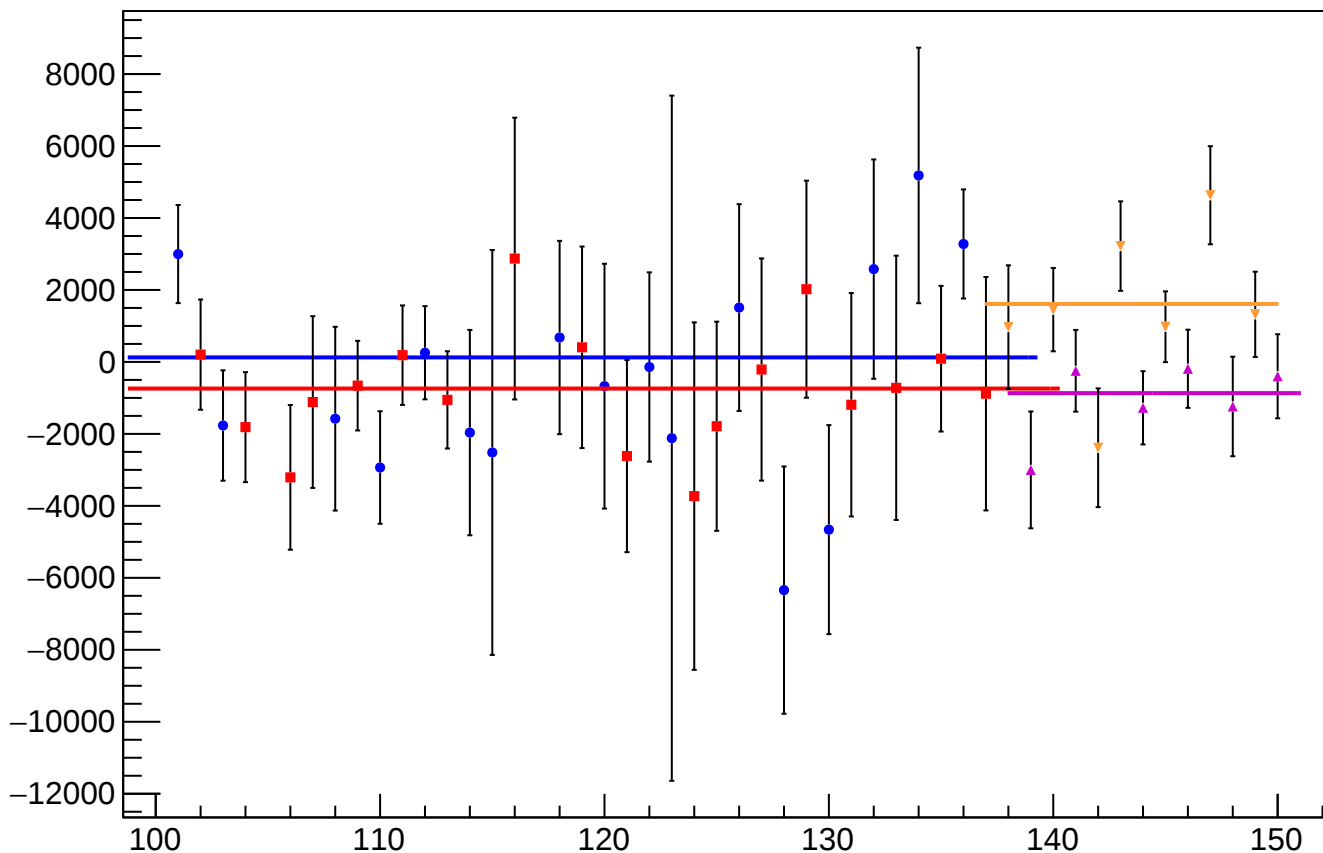
Right: 1265.263+/-0.254  $\chi^2/\text{NDF}$ : 2514318.9/34

In: 1191.585+/-0.256  $\chi^2/\text{NDF}$ : 1499494.3/22

Out: 1141.574+/-0.241  $\chi^2/\text{NDF}$ : 1726174.9/24

All: 1165.111+/-0.175  $\chi^2/\text{NDF}$ : 3245915.0/47

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1611.316 $\pm$ 477.545  $\chi^2$ /NDF:13.1/6

Right Out: -739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

Left In: -866.650 $\pm$ 486.597  $\chi^2$ /NDF:2.8/5

Left: 395.597 $\pm$ 340.831  $\chi^2$ /NDF: 29.1/12

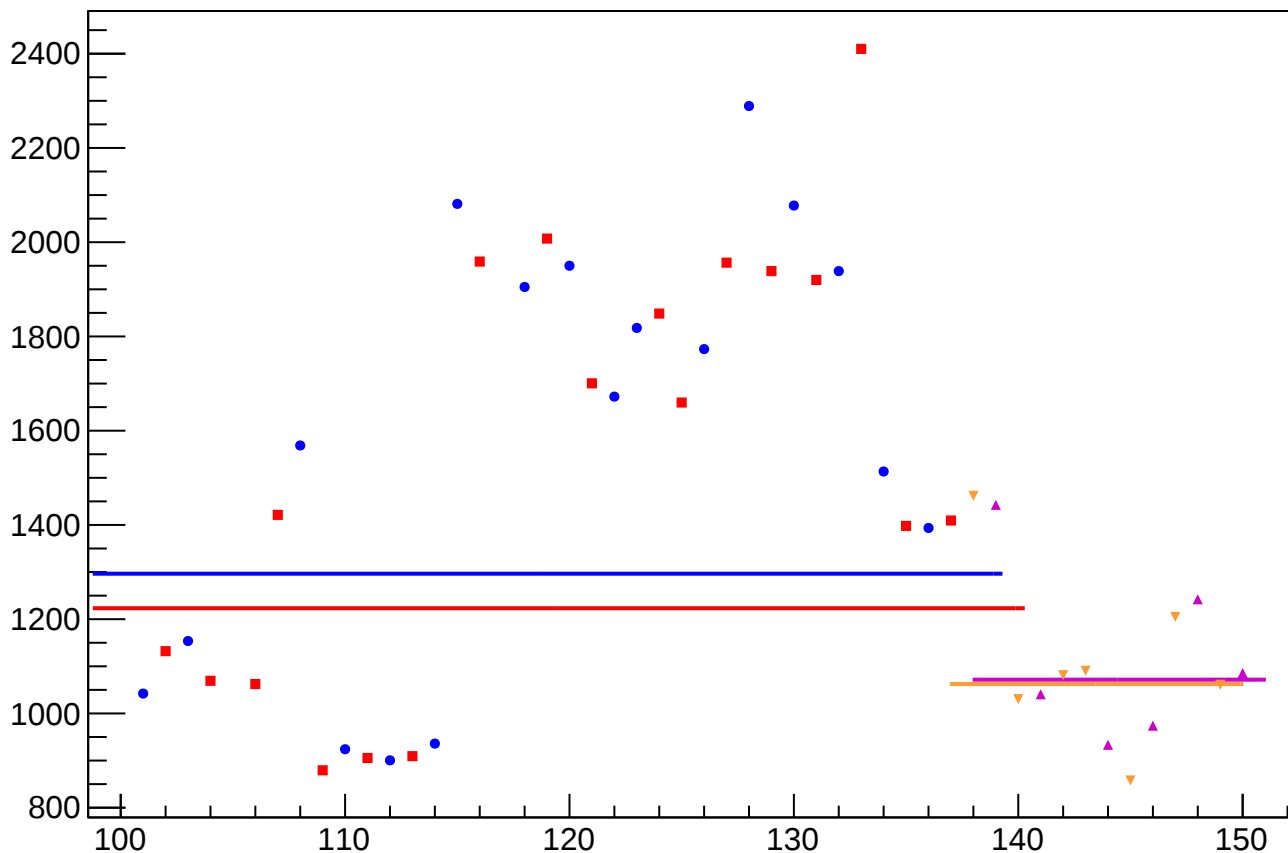
Right: -341.379 $\pm$ 357.529  $\chi^2$ /NDF: 32.1/34

In: -409.931 $\pm$ 357.445  $\chi^2$ /NDF:29.4/22

Out: 458.264 $\pm$ 340.903  $\chi^2$ /NDF:31.0/24

All: 44.721 $\pm$ 246.696  $\chi^2$ /NDF: 63.4/47

# 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: 1062.401 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 219357.3/6

Right Out: 1223.274 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 1346689.2/17

Left In: 1071.686 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 189646.2/5

Left: 1066.957 $\pm$ 0.241  $\chi^2/\text{NDF}$ : 409374.5/12

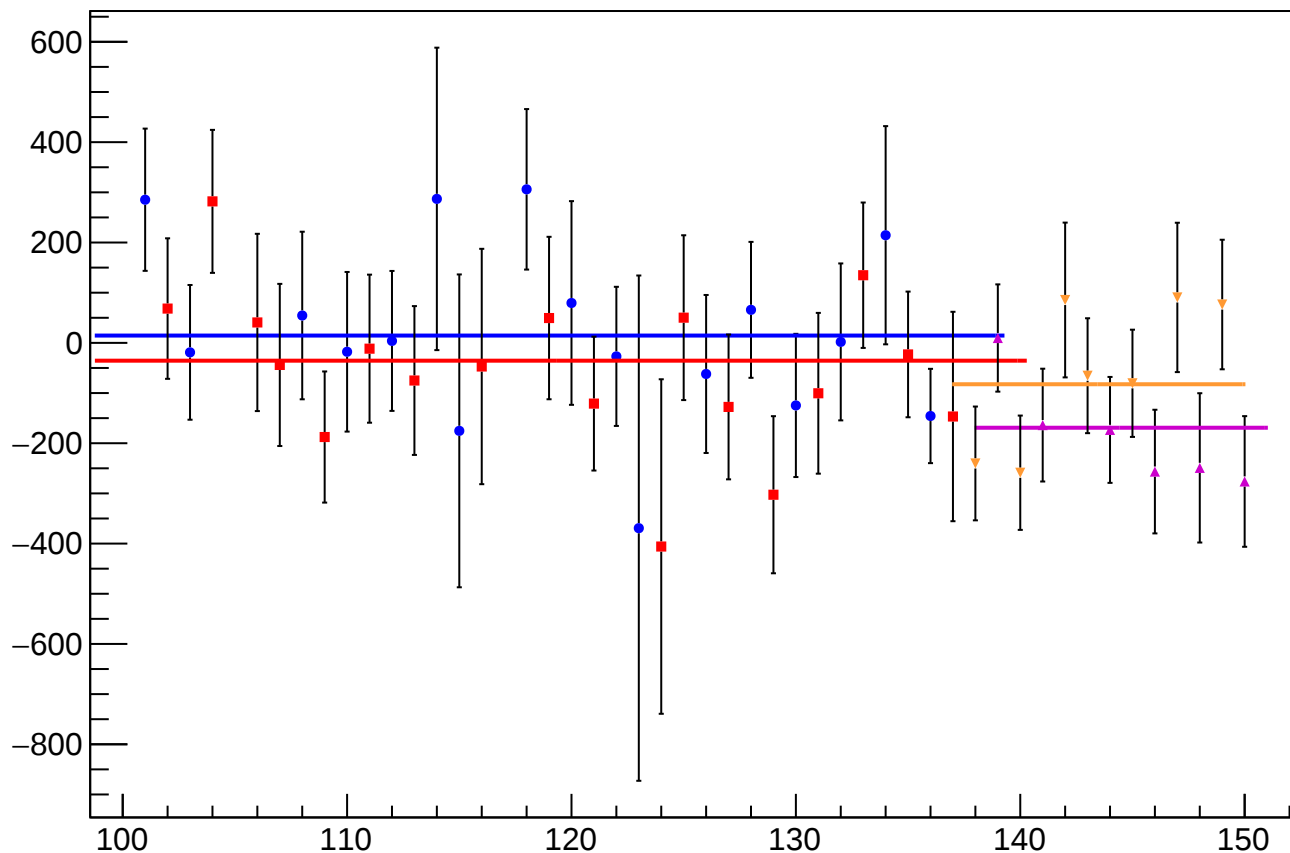
Right: 1257.036 $\pm$ 0.253  $\chi^2/\text{NDF}$ : 2543039.6/34

In: 1175.222 $\pm$ 0.253  $\chi^2/\text{NDF}$ : 1561784.9/22

Out: 1141.293 $\pm$ 0.241  $\chi^2/\text{NDF}$ : 1677351.7/24

All: 1157.454 $\pm$ 0.174  $\chi^2/\text{NDF}$ : 3248573.3/47

# dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 14.577+/-38.017  $\chi^2/\text{NDF}$ : 14.2/16

Left Out: -82.445+/-46.330  $\chi^2/\text{NDF}$ : 8.4/6

Right Out: -35.475+/-36.728  $\chi^2/\text{NDF}$ : 14.5/17

Left In: -169.128+/-48.422  $\chi^2/\text{NDF}$ : 4.3/5

Left: -123.874+/-33.475  $\chi^2/\text{NDF}$ : 14.4/12

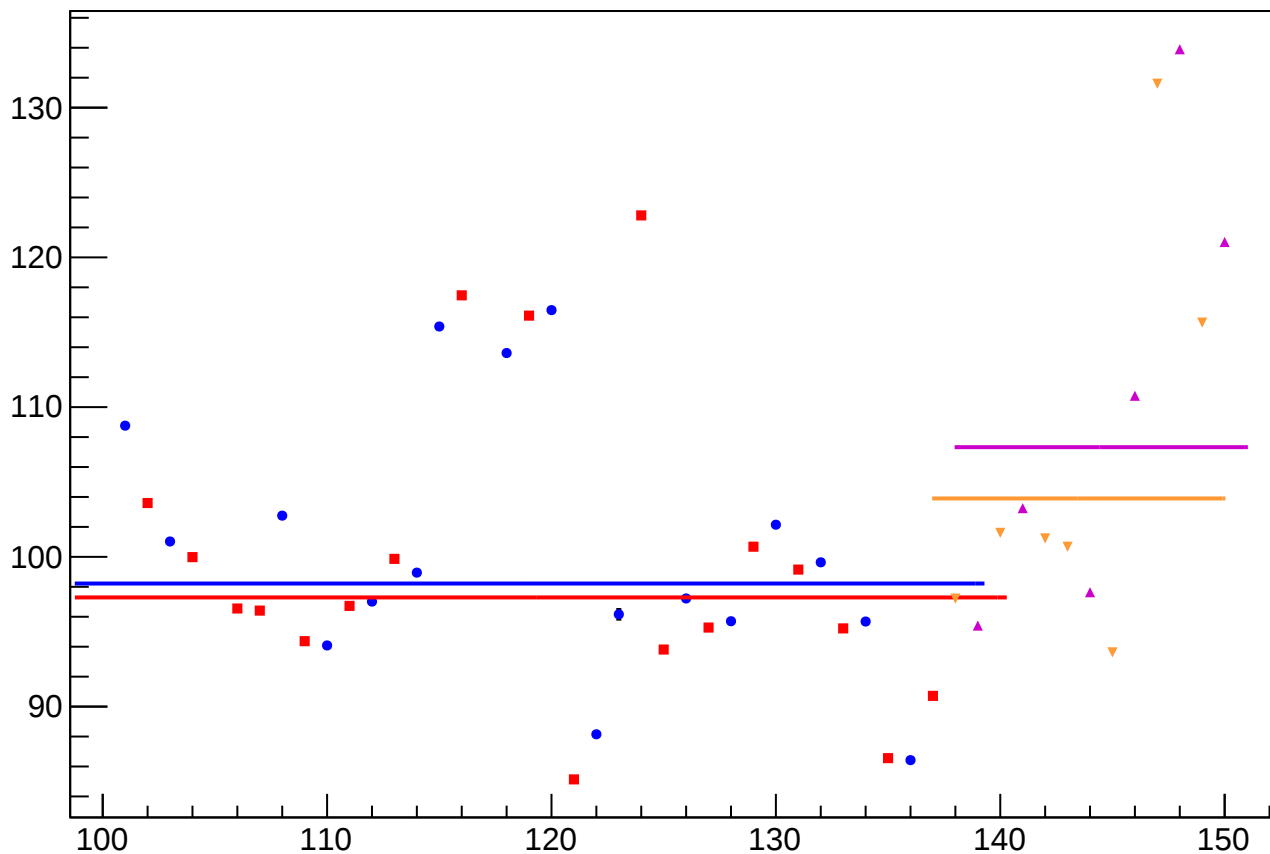
Right: -11.312+/-26.414  $\chi^2/\text{NDF}$ : 29.6/34

In: -55.478+/-29.902  $\chi^2/\text{NDF}$ : 27.4/22

Out: -53.601+/-28.781  $\chi^2/\text{NDF}$ : 23.6/24

All: -54.504+/-20.736  $\chi^2/\text{NDF}$ : 50.9/47

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: 103.900 $\pm$ 0.033  $\chi^2$ /NDF: 114289.9/6

Right Out: 97.290 $\pm$ 0.026  $\chi^2$ /NDF: 96216.6/17

Left In: 107.326 $\pm$ 0.034  $\chi^2$ /NDF: 131849.3/5

Left: 105.537 $\pm$ 0.024  $\chi^2$ /NDF: 251365.5/12

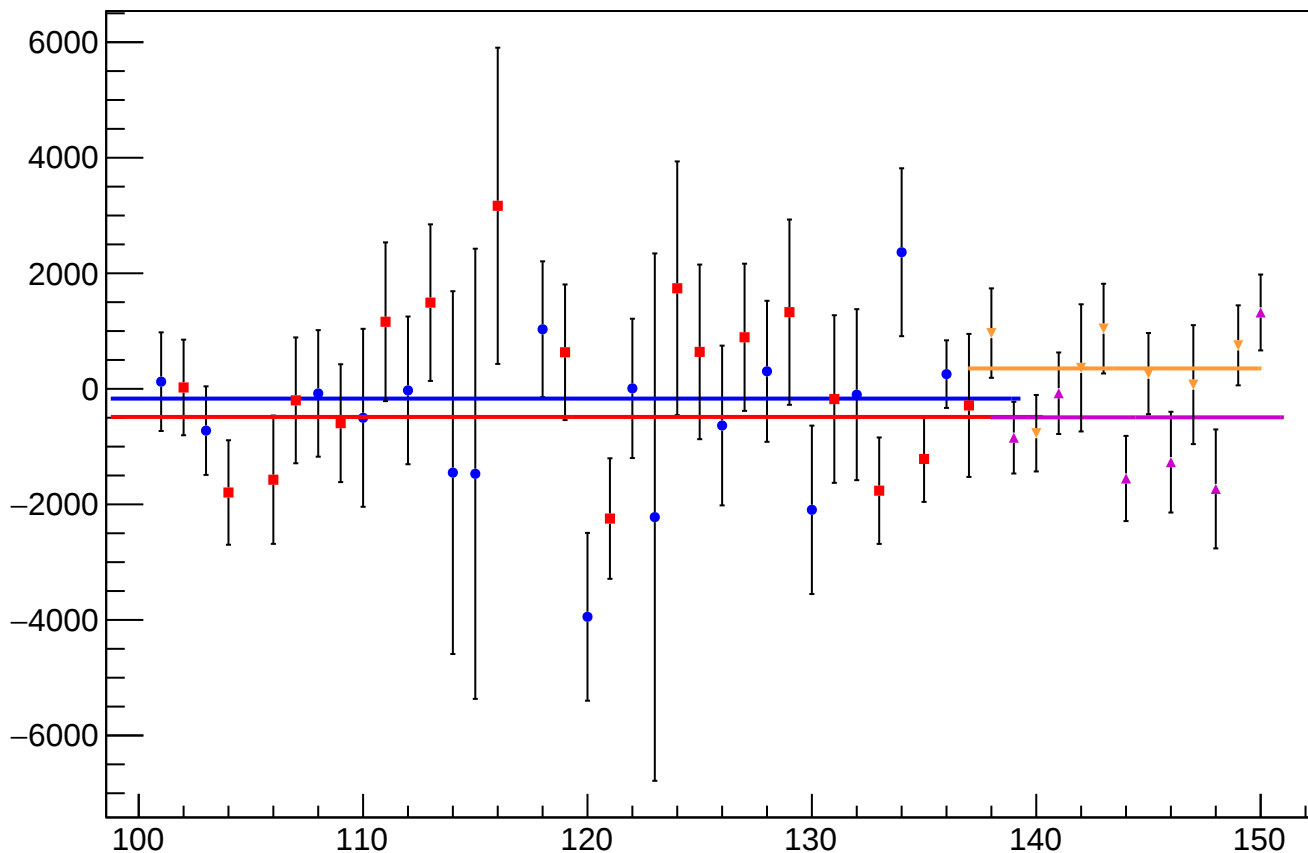
Right: 97.739 $\pm$ 0.019  $\chi^2$ /NDF: 197344.2/34

In: 101.692 $\pm$ 0.021  $\chi^2$ /NDF: 276125.2/22

Out: 99.841 $\pm$ 0.020  $\chi^2$ /NDF: 235504.0/24

All: 100.731 $\pm$ 0.015  $\chi^2$ /NDF: 515606.0/47

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-168.802 \pm 282.178$   $\chi^2/\text{NDF}: 14.6/16$

Left Out:  $353.268 \pm 295.065$   $\chi^2/\text{NDF}: 4.7/6$

Right Out:  $-486.312 \pm 268.010$   $\chi^2/\text{NDF}: 19.6/17$

Left In:  $-493.527 \pm 301.293$   $\chi^2/\text{NDF}: 12.6/5$

Left:  $-61.288 \pm 210.810$   $\chi^2/\text{NDF}: 21.3/12$

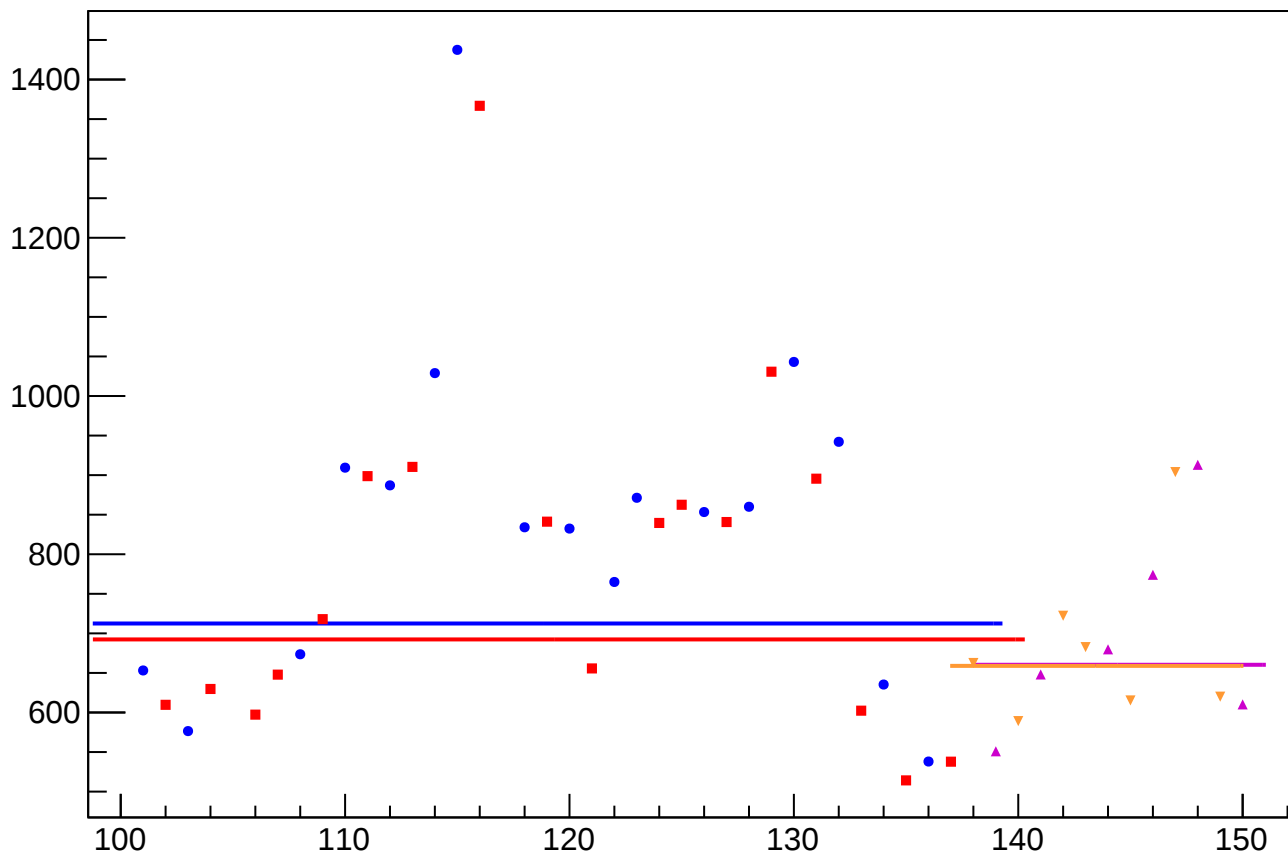
Right:  $-335.728 \pm 194.327$   $\chi^2/\text{NDF}: 34.9/34$

In:  $-320.538 \pm 205.956$   $\chi^2/\text{NDF}: 27.8/22$

Out:  $-106.771 \pm 198.388$   $\chi^2/\text{NDF}: 28.7/24$

All:  $-209.655 \pm 142.882$   $\chi^2/\text{NDF}: 57.1/47$

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: 658.918+/-0.209  $\chi^2/\text{NDF}$ :157991.9/6

Right Out: 692.342+/-0.190  $\chi^2/\text{NDF}$ : 656953.1/17

Left In: 660.296+/-0.213  $\chi^2/\text{NDF}$ :230164.7/5

Left: 659.593+/-0.149  $\chi^2/\text{NDF}$ : 388177.9/12

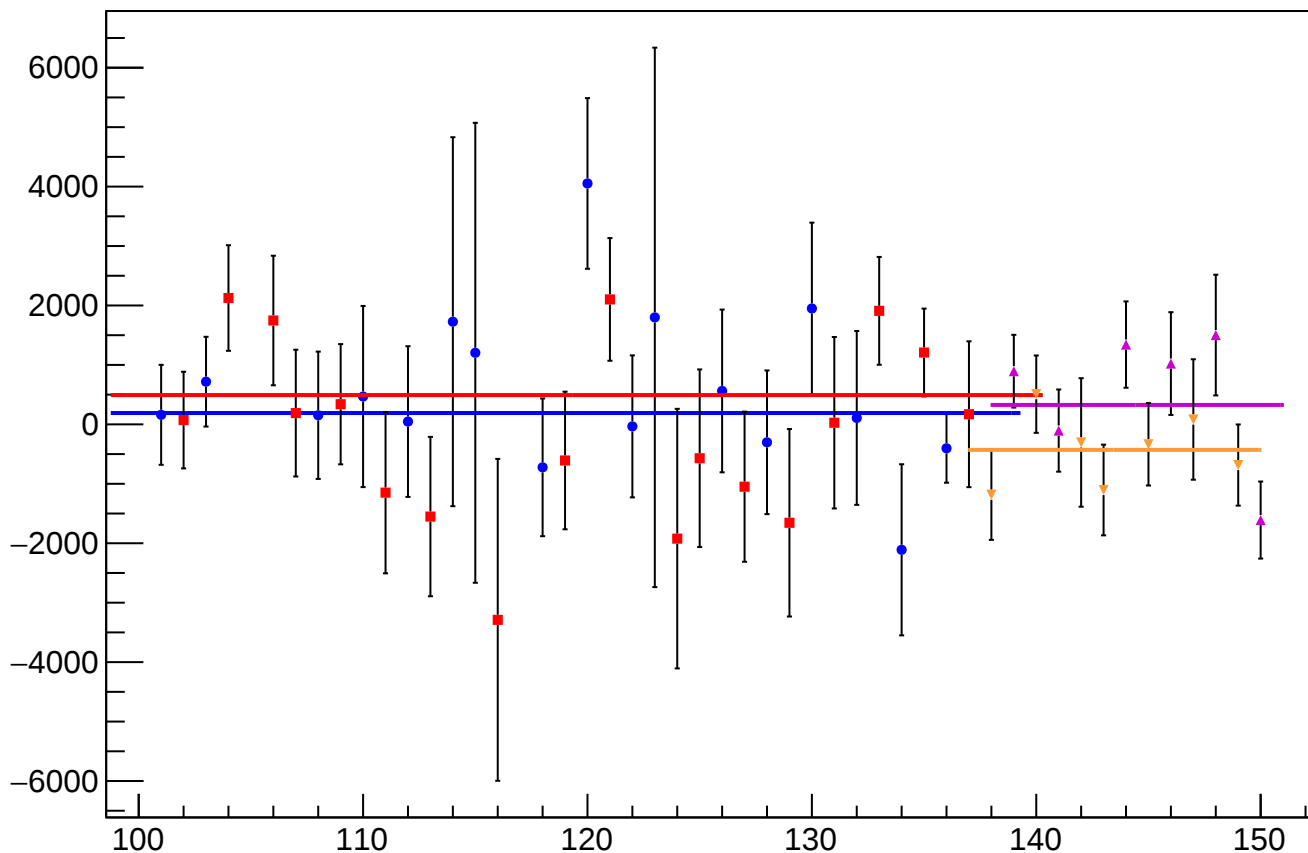
Right: 701.891+/-0.137  $\chi^2/\text{NDF}$ : 1322826.7/34

In: 688.093+/-0.146  $\chi^2/\text{NDF}$ :922642.1/22

Out: 677.232+/-0.140  $\chi^2/\text{NDF}$ :829007.1/24

All: 682.460+/-0.101  $\chi^2/\text{NDF}$ : 1754534.2/47

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 190.880+/-278.670  $\chi^2/\text{NDF}$ : 14.2/16

Left Out: -429.015+/-290.265  $\chi^2/\text{NDF}$ : 4.3/6

Right Out: 492.784+/-264.629  $\chi^2/\text{NDF}$ : 22.8/17

Left In: 326.892+/-296.828  $\chi^2/\text{NDF}$ : 14.1/5

Left: -59.509+/-207.530  $\chi^2/\text{NDF}$ : 21.7/12

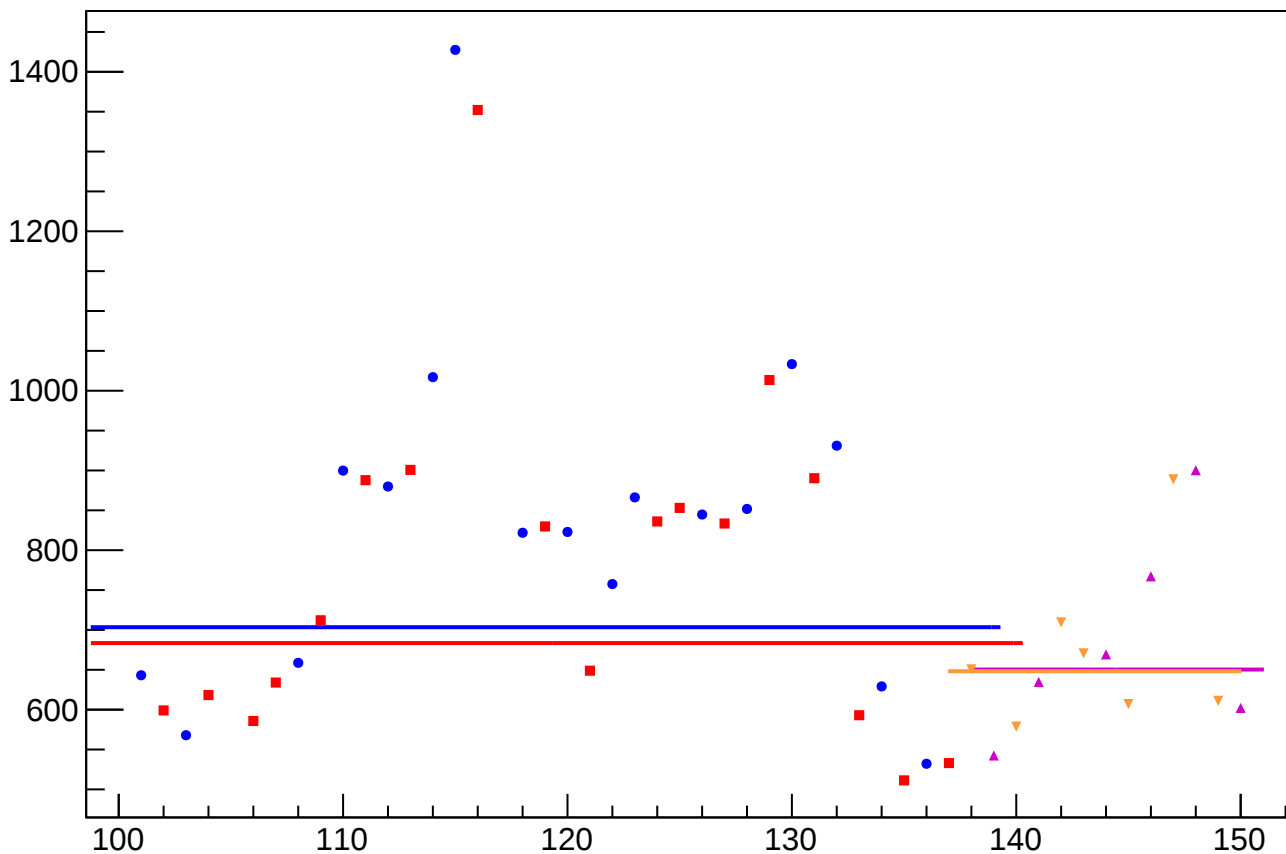
Right: 349.629+/-191.893  $\chi^2/\text{NDF}$ : 37.6/34

In: 254.599+/-203.165  $\chi^2/\text{NDF}$ : 28.4/22

Out: 74.381+/-195.558  $\chi^2/\text{NDF}$ : 32.6/24

All: 161.053+/-140.893  $\chi^2/\text{NDF}$ : 61.4/47

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Left: 649.228  $\pm$  0.147  $\chi^2/\text{NDF}$ : 390198.2/12

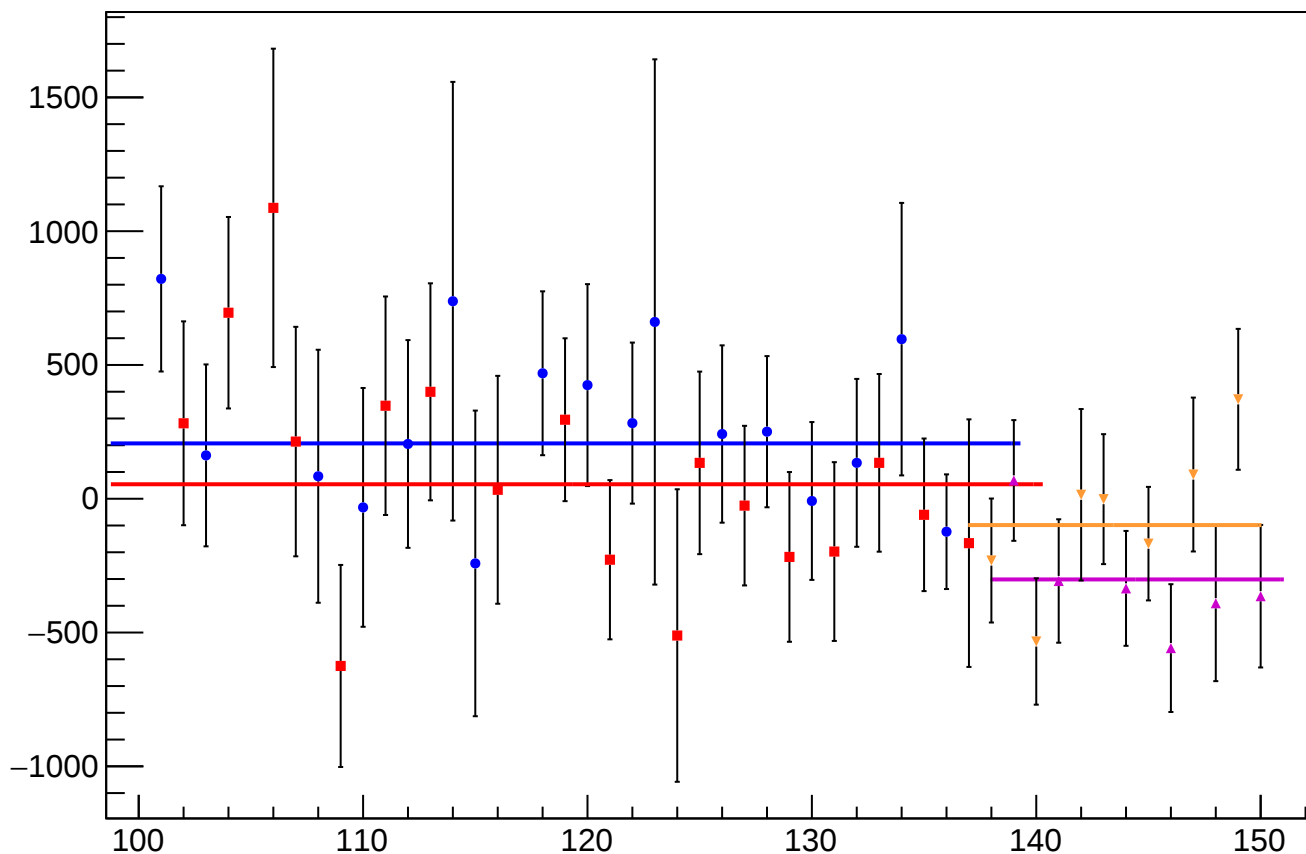
Right: 692.935  $\pm$  0.136  $\chi^2/\text{NDF}$ : 1331611.8/34

In: 678.530  $\pm$  0.144  $\chi^2/\text{NDF}$ : 934241.1/22

Out: 667.472  $\pm$  0.138  $\chi^2/\text{NDF}$ : 832316.2/24

All: 672.790  $\pm$  0.100  $\chi^2/\text{NDF}$ : 1769632.9/47

# dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $206.874 \pm 85.632$   $\chi^2/\text{NDF}: 9.5/16$

Left Out:  $-98.394 \pm 94.495$   $\chi^2/\text{NDF}: 7.7/6$

Right Out:  $54.185 \pm 85.192$   $\chi^2/\text{NDF}: 15.7/17$

Left In:  $-301.557 \pm 98.259$   $\chi^2/\text{NDF}: 4.0/5$

Left:  $-196.010 \pm 68.110$   $\chi^2/\text{NDF}: 14.0/12$

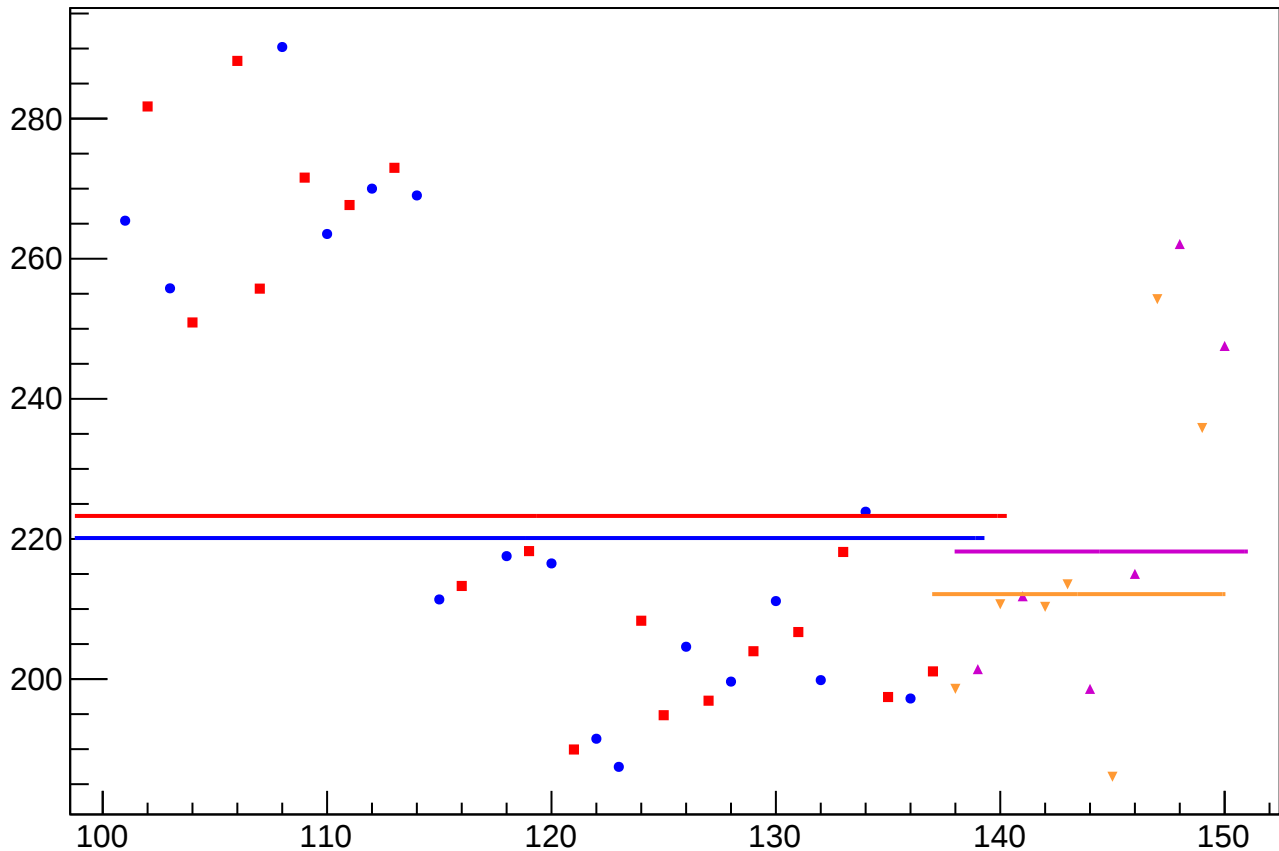
Right:  $130.137 \pm 60.395$   $\chi^2/\text{NDF}: 26.8/34$

In:  $-12.592 \pm 64.557$   $\chi^2/\text{NDF}: 28.7/22$

Out:  $-14.226 \pm 63.274$   $\chi^2/\text{NDF}: 24.8/24$

All:  $-13.426 \pm 45.188$   $\chi^2/\text{NDF}: 53.6/47$

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: 212.128 $\pm$ 0.067  $\chi^2/\text{NDF}$ : 96282.2/6

Right Out: 223.287 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 272255.2/17

Left In: 218.209 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 99358.5/5

Left: 215.050 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 199620.8/12

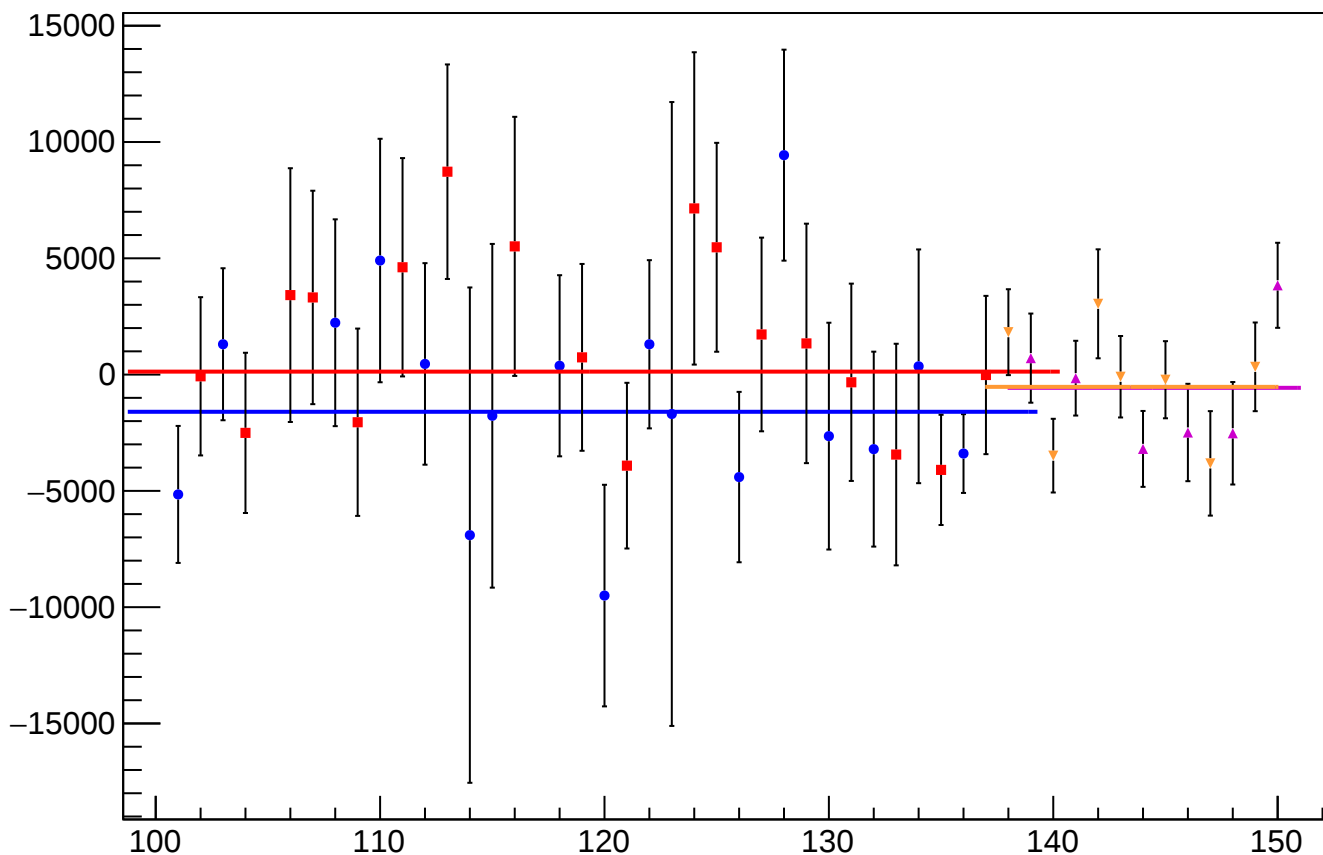
Right: 221.718 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 502063.5/34

In: 219.302 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 328238.0/22

Out: 218.284 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 383924.2/24

All: 218.783 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 712416.1/47

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: -527.226 $\pm$ 700.657  $\chi^2$ /NDF:9.9/6

Right Out: 127.760 $\pm$ 949.094  $\chi^2$ /NDF: 14.8/17

Left In: -568.809 $\pm$ 751.997  $\chi^2$ /NDF:10.5/5

Left: -546.550 $\pm$ 512.629  $\chi^2$ /NDF: 20.4/12

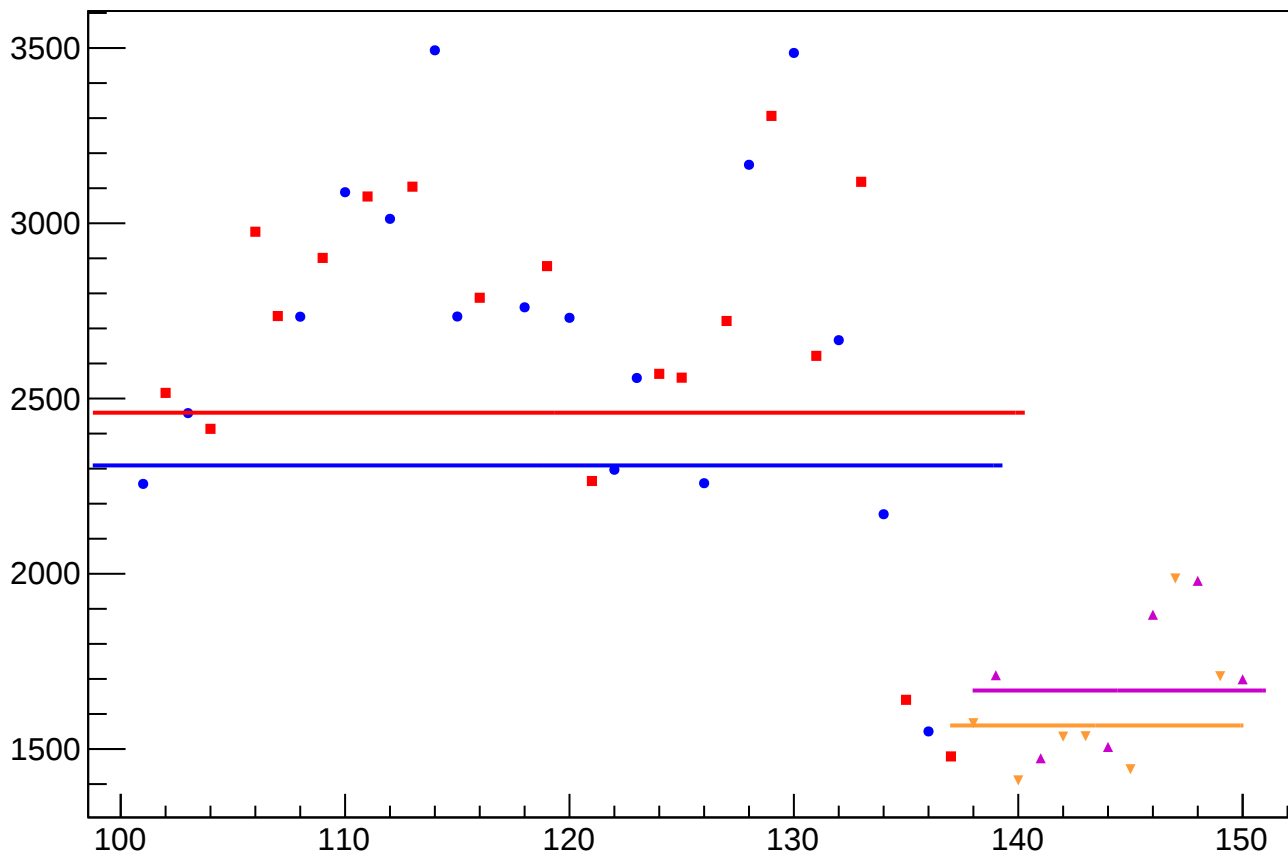
Right: -761.539 $\pm$ 660.970  $\chi^2$ /NDF: 33.2/34

In: -980.883 $\pm$ 582.504  $\chi^2$ /NDF:27.9/22

Out: -296.181 $\pm$ 563.692  $\chi^2$ /NDF:25.0/24

All: -627.297 $\pm$ 405.078  $\chi^2$ /NDF: 53.6/47

asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 2309.132 $\pm$ 0.651  $\chi^2$ /NDF: 800728.2/16

Left Out: 1567.220 $\pm$ 0.495  $\chi^2$ /NDF: 112518.1/6

Right Out: 2459.603 $\pm$ 0.671  $\chi^2$ /NDF: 668179.2/17

Left In: 1666.964 $\pm$ 0.532  $\chi^2$ /NDF: 111728.1/5

Left: 1613.572 $\pm$ 0.362  $\chi^2$ /NDF: 243081.3/12

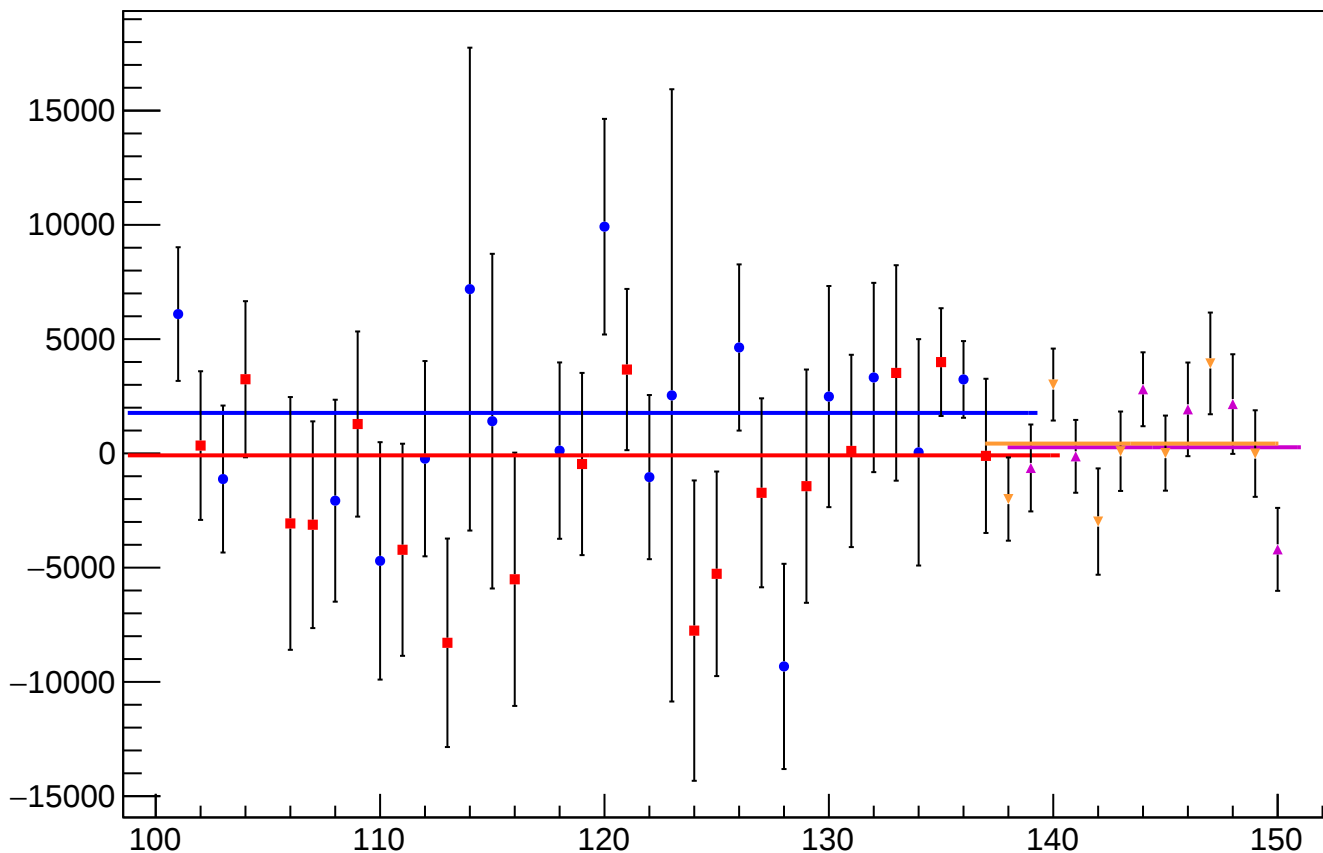
Right: 2382.111 $\pm$ 0.467  $\chi^2$ /NDF: 1494797.0/34

In: 1923.819 $\pm$ 0.412  $\chi^2$ /NDF: 1495811.3/22

Out: 1882.007 $\pm$ 0.399  $\chi^2$ /NDF: 1925121.6/24

All: 1902.227 $\pm$ 0.286  $\chi^2$ /NDF: 3426254.2/47

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 1771.279+/-912.328  $\chi^2/\text{NDF}$ : 17.3/16

Left Out: 429.194+/-694.756  $\chi^2/\text{NDF}$ : 9.3/6

Right Out: -86.080+/-939.852  $\chi^2/\text{NDF}$ : 14.5/17

Left In: 268.139+/-744.352  $\chi^2/\text{NDF}$ : 10.2/5

Left: 354.210+/-507.896  $\chi^2/\text{NDF}$ : 19.5/12

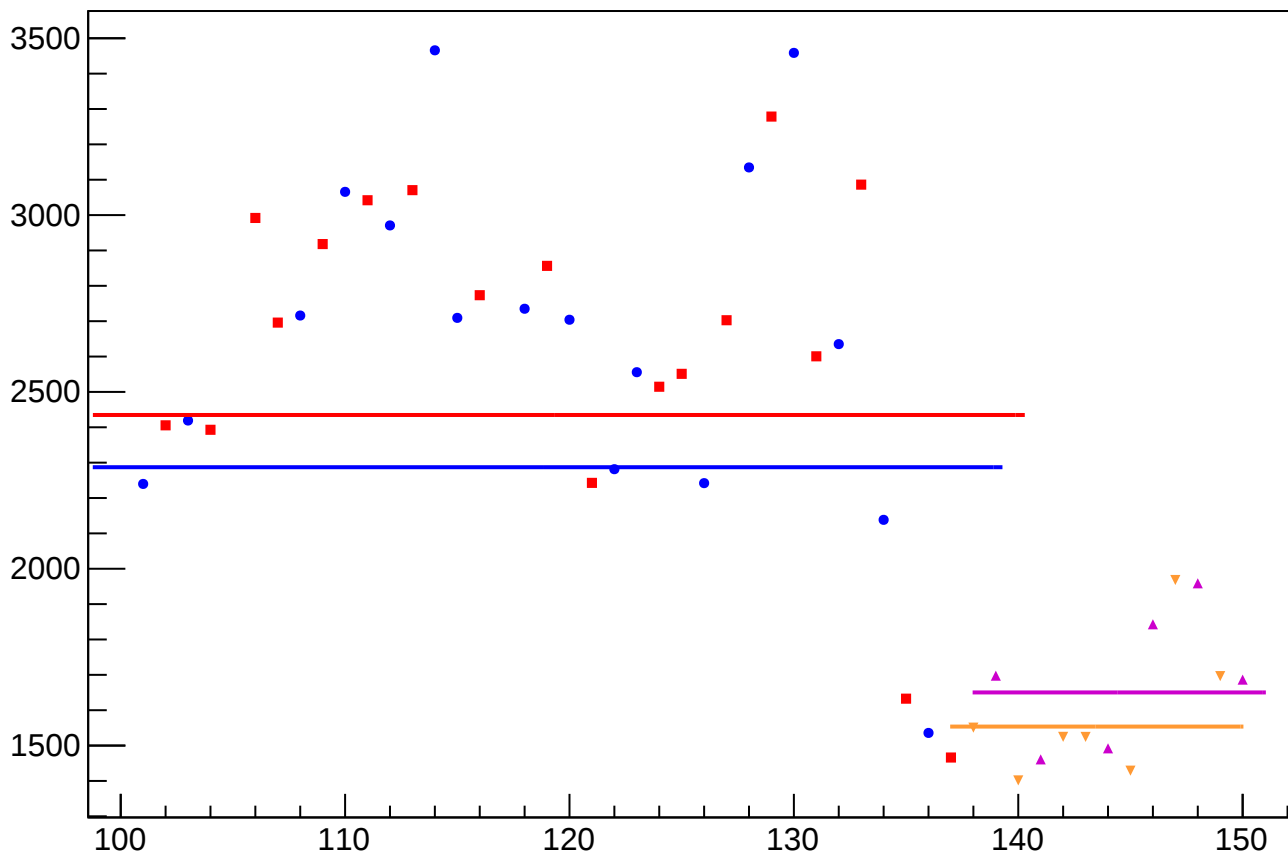
Right: 870.195+/-654.628  $\chi^2/\text{NDF}$ : 33.8/34

In: 868.852+/-576.746  $\chi^2/\text{NDF}$ : 29.2/22

Out: 247.120+/-558.683  $\chi^2/\text{NDF}$ : 23.9/24

All: 548.097+/-401.282  $\chi^2/\text{NDF}$ : 53.7/47

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2287.102 $\pm$ 0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1553.714 $\pm$ 0.491  $\chi^2/\text{NDF}$ : 111810.1/6

Right Out: 2434.786 $\pm$ 0.665  $\chi^2/\text{NDF}$ : 666938.3/17

Left In: 1650.253 $\pm$ 0.526  $\chi^2/\text{NDF}$ : 107123.3/5

Left: 1598.661 $\pm$ 0.359  $\chi^2/\text{NDF}$ : 236912.4/12

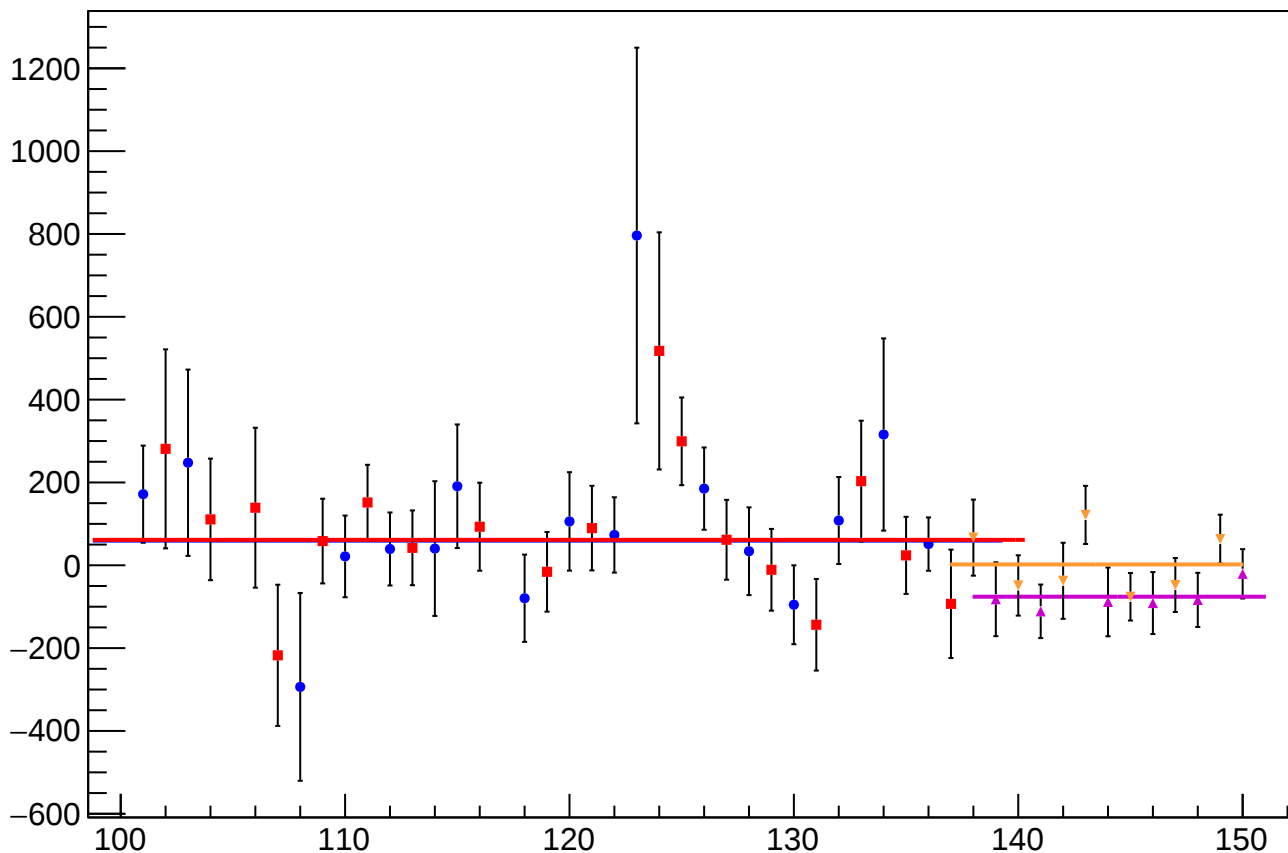
Right: 2358.750 $\pm$ 0.463  $\chi^2/\text{NDF}$ : 1491762.6/34

In: 1904.763 $\pm$ 0.408  $\chi^2/\text{NDF}$ : 1491598.9/22

Out: 1865.045 $\pm$ 0.395  $\chi^2/\text{NDF}$ : 1915326.4/24

All: 1884.272 $\pm$ 0.284  $\chi^2/\text{NDF}$ : 3411818.5/47

# dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 59.656 $\pm$ 27.080  $\chi^2$ /NDF: 15.3/16

Left Out: 2.024 $\pm$ 26.197  $\chi^2$ /NDF: 7.6/6

Right Out: 61.399 $\pm$ 27.011  $\chi^2$ /NDF: 19.7/17

Left In: -75.879 $\pm$ 28.820  $\chi^2$ /NDF: 1.2/5

Left: -33.222 $\pm$ 19.385  $\chi^2$ /NDF: 12.8/12

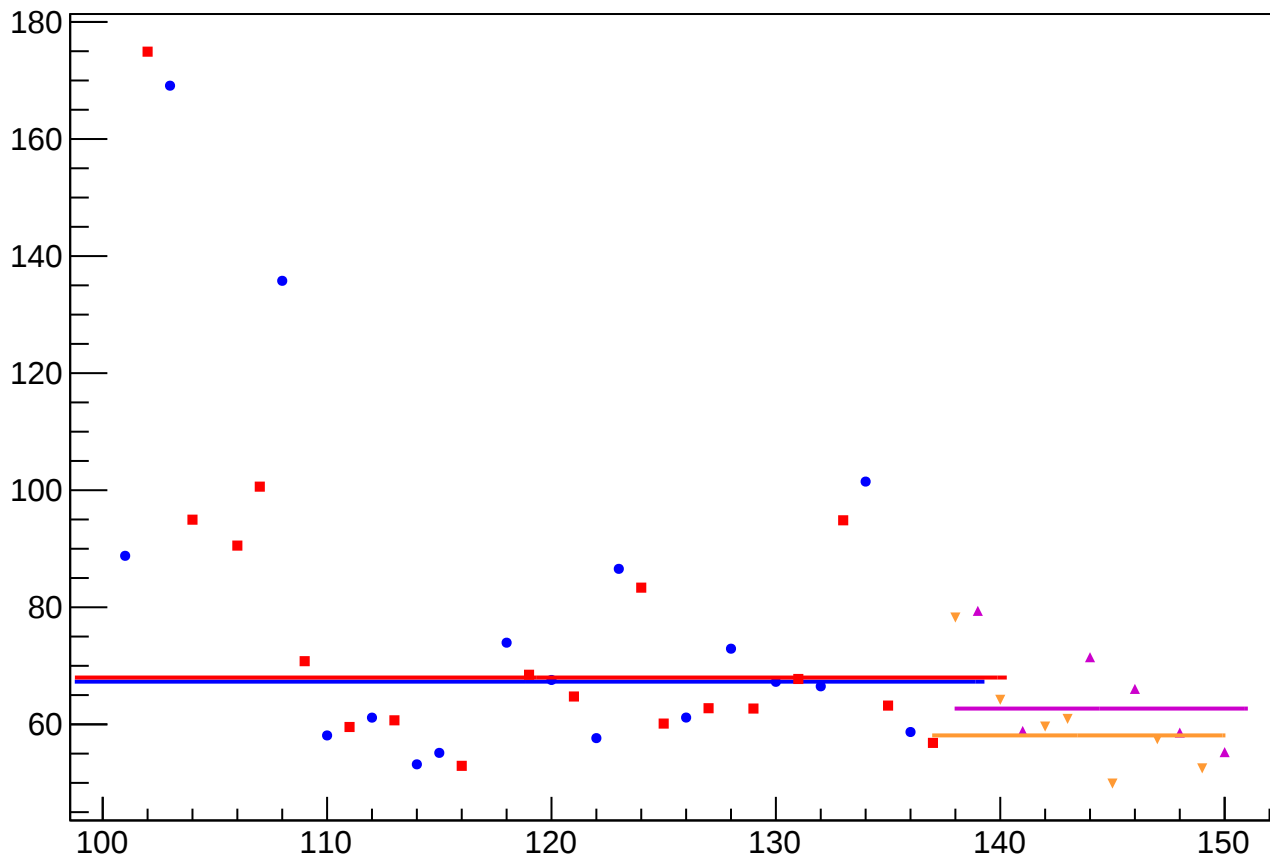
Right: 60.530 $\pm$ 19.124  $\chi^2$ /NDF: 35.0/34

In: -3.897 $\pm$ 19.735  $\chi^2$ /NDF: 28.3/22

Out: 30.803 $\pm$ 18.805  $\chi^2$ /NDF: 29.8/24

All: 14.290 $\pm$ 13.614  $\chi^2$ /NDF: 59.7/47

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: 58.111 $\pm$ 0.019  $\chi^2$ /NDF: 173615.1/6

Right Out: 67.998 $\pm$ 0.019  $\chi^2$ /NDF: 754329.7/17

Left In: 62.695 $\pm$ 0.020  $\chi^2$ /NDF: 142422.6/5

Left: 60.185 $\pm$ 0.014  $\chi^2$ /NDF: 343747.0/12

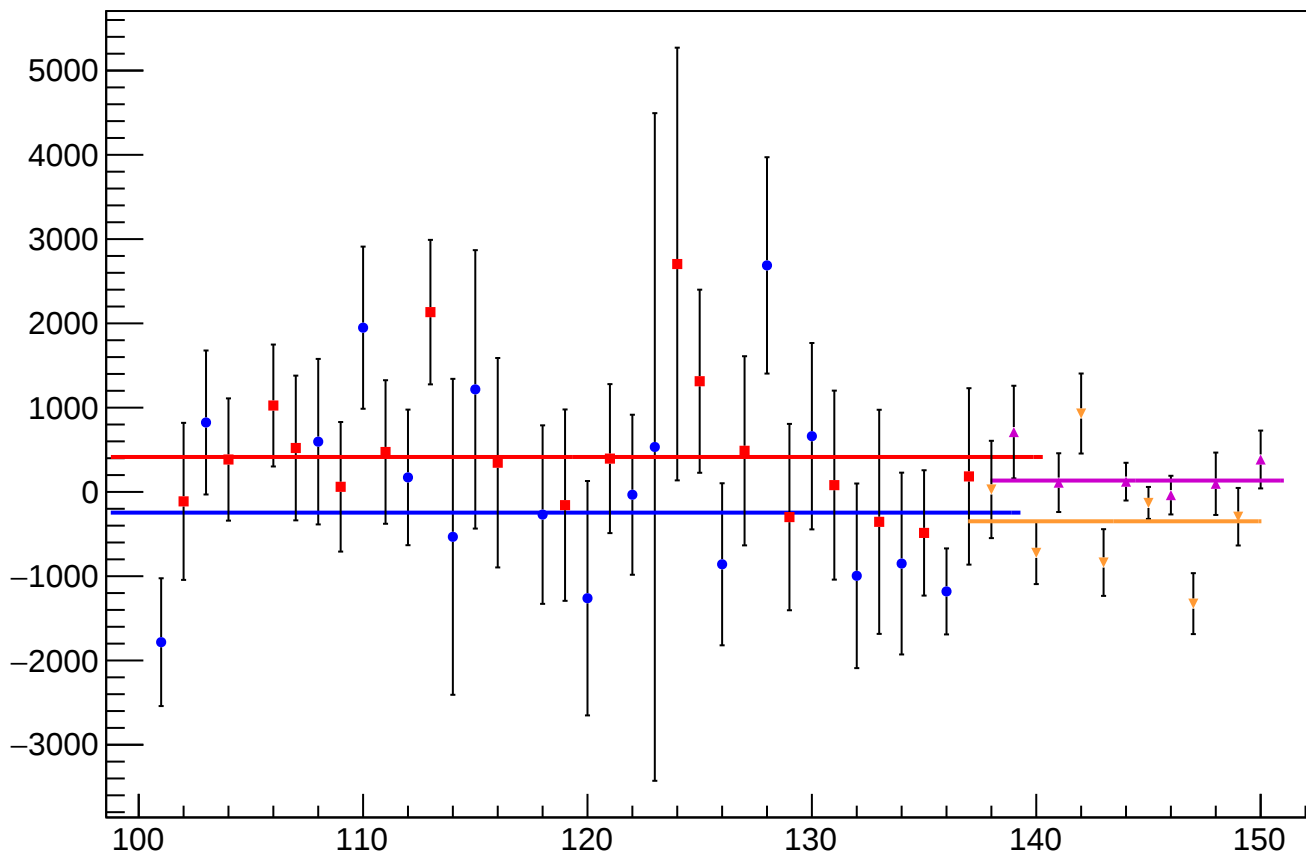
Right: 67.648 $\pm$ 0.014  $\chi^2$ /NDF: 1596354.2/34

In: 65.139 $\pm$ 0.014  $\chi^2$ /NDF: 1010854.3/22

Out: 62.903 $\pm$ 0.013  $\chi^2$ /NDF: 1066030.7/24

All: 63.967 $\pm$ 0.010  $\chi^2$ /NDF: 2090338.8/47

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -245.631+/-235.404  $\chi^2/\text{NDF}$ : 23.8/16

Left Out: -348.360+/-123.936  $\chi^2/\text{NDF}$ : 18.9/6

Right Out: 414.725+/-222.788  $\chi^2/\text{NDF}$ : 9.4/17

Left In: 134.963+/-122.806  $\chi^2/\text{NDF}$ : 2.2/5

Left: -104.486+/-87.234  $\chi^2/\text{NDF}$ : 28.8/12

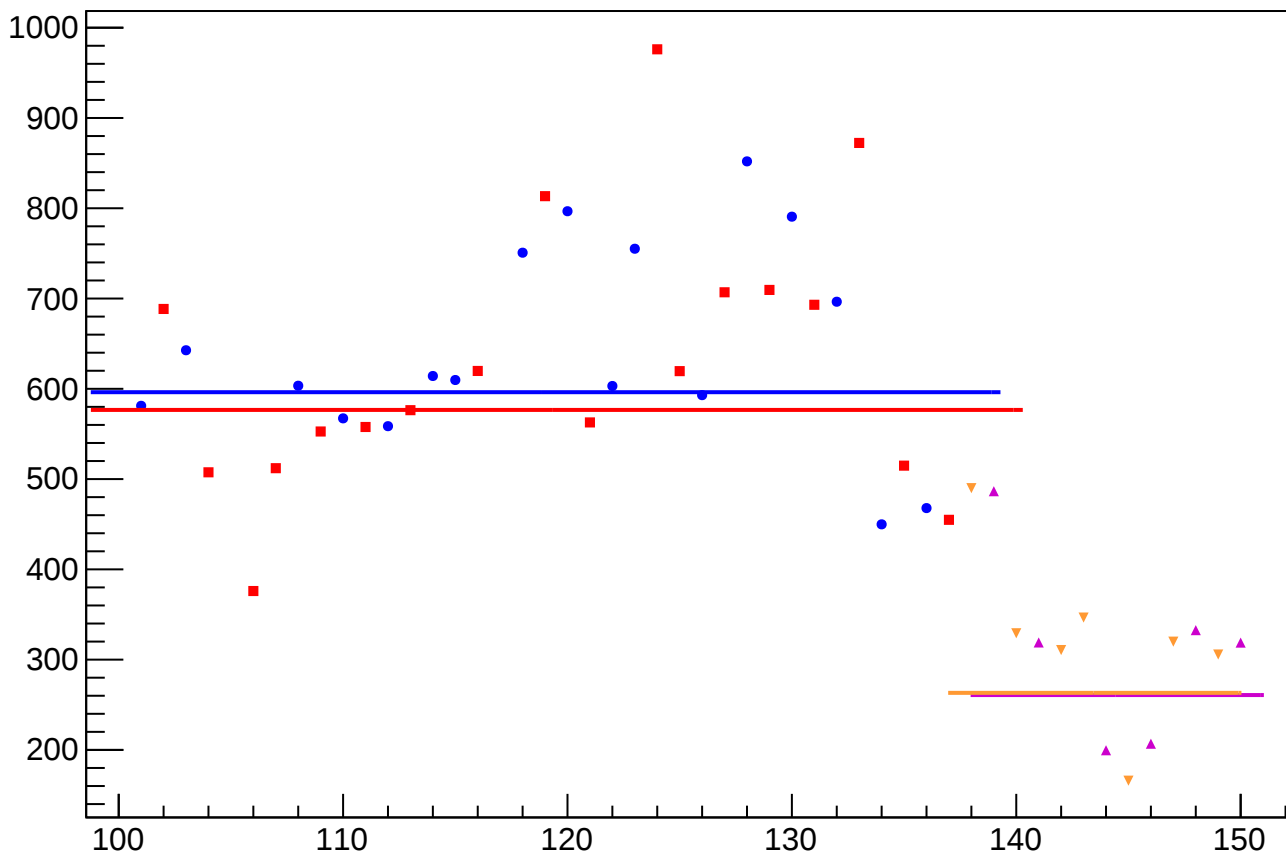
Right: 102.716+/-161.811  $\chi^2/\text{NDF}$ : 37.3/34

In: 53.543+/-108.881  $\chi^2/\text{NDF}$ : 28.0/22

Out: -168.022+/-108.305  $\chi^2/\text{NDF}$ : 37.2/24

All: -57.826+/-76.786  $\chi^2/\text{NDF}$ : 67.3/47

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In:  $596.246 \pm 0.166$   $\chi^2/\text{NDF}$ : 422153.3/16

Left Out:  $263.206 \pm 0.088$   $\chi^2/\text{NDF}$ : 1086579.9/6

Right Out:  $576.614 \pm 0.158$   $\chi^2/\text{NDF}$ : 573658.2/17

Left In:  $260.763 \pm 0.087$   $\chi^2/\text{NDF}$ : 785984.1/5

Left:  $261.973 \pm 0.062$   $\chi^2/\text{NDF}$ : 1872955.8/12

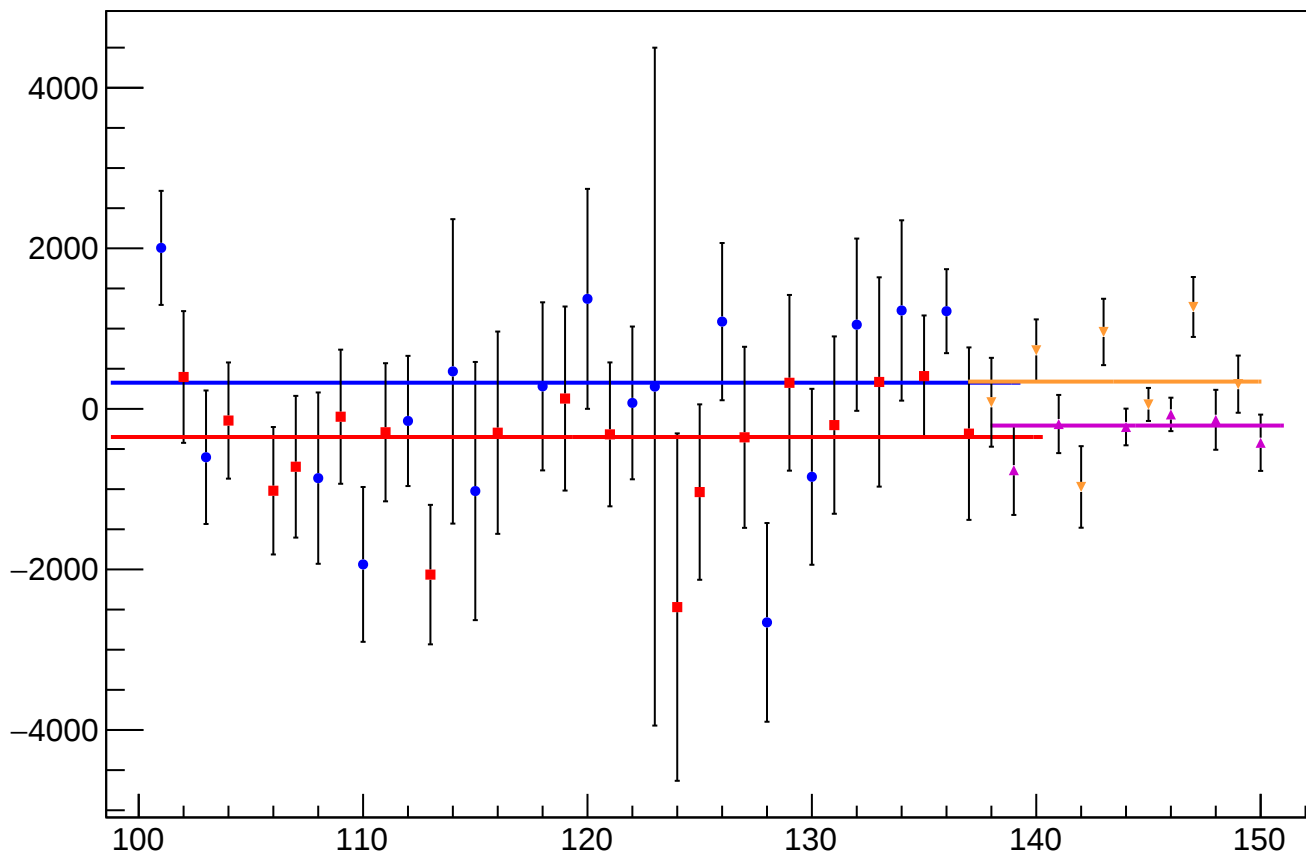
Right:  $585.890 \pm 0.114$   $\chi^2/\text{NDF}$ : 1003148.8/34

In:  $332.533 \pm 0.077$   $\chi^2/\text{NDF}$ : 4401160.9/22

Out:  $337.273 \pm 0.077$   $\chi^2/\text{NDF}$ : 4682796.6/24

All:  $334.916 \pm 0.054$   $\chi^2/\text{NDF}$ : 9085862.4/47

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 326.077+/-235.599  $\chi^2/\text{NDF}$ : 26.9/16

Left Out: 339.897+/-130.844  $\chi^2/\text{NDF}$ :18.3/6

Right Out: -350.392+/-225.254  $\chi^2/\text{NDF}$ : 9.0/17

Left In: -207.791+/-120.950  $\chi^2/\text{NDF}$ :1.9/5

Left: 44.565+/-88.817  $\chi^2/\text{NDF}$ : 29.6/12

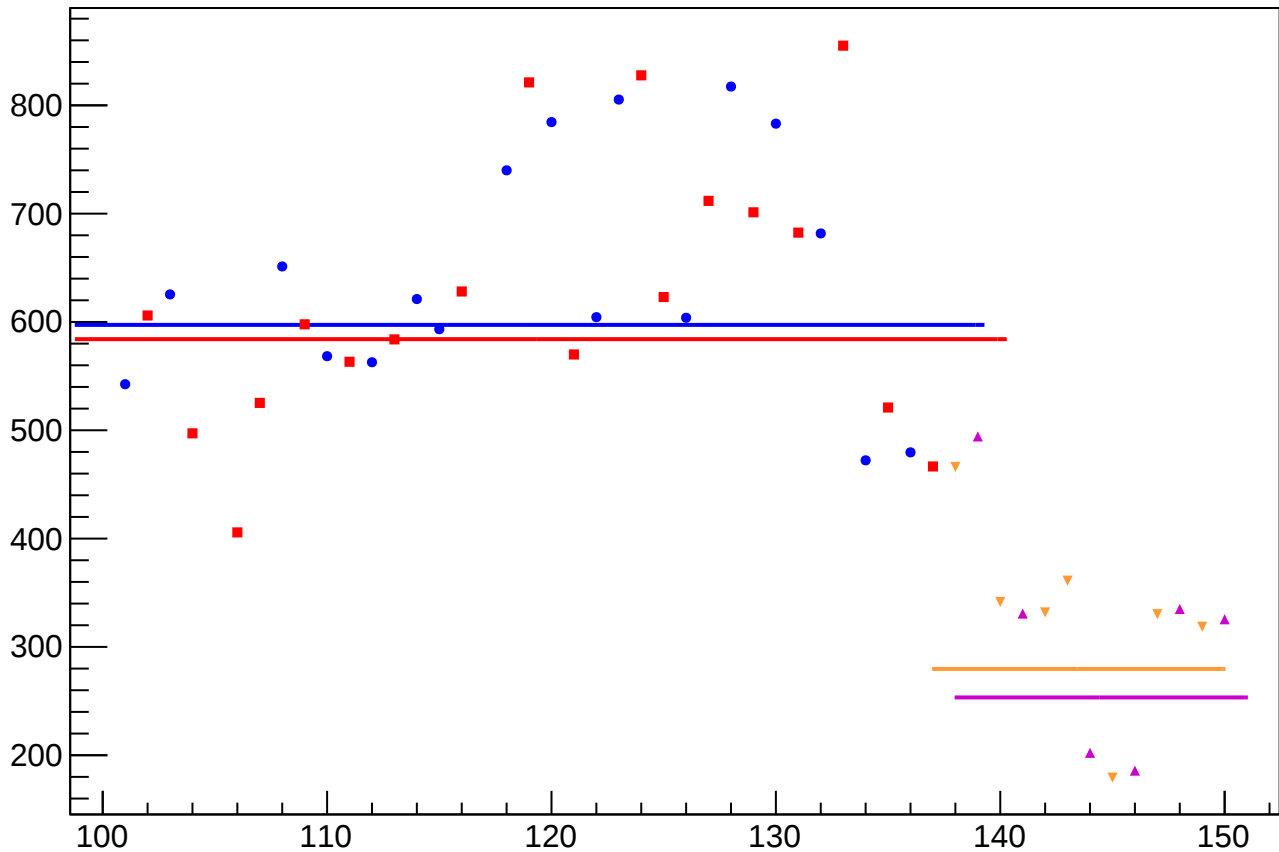
Right: -27.335+/-162.813  $\chi^2/\text{NDF}$ : 40.2/34

In: -96.437+/-107.599  $\chi^2/\text{NDF}$ :32.8/22

Out: 165.746+/-113.141  $\chi^2/\text{NDF}$ :34.3/24

All: 28.076+/-77.970  $\chi^2/\text{NDF}$ : 69.9/47

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 279.670 $\pm$ 0.093  $\chi^2$ /NDF: 913855.8/6

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

Left In: 253.346 $\pm$ 0.086  $\chi^2$ /NDF: 955797.1/5

Left: 265.475 $\pm$ 0.063  $\chi^2$ /NDF: 1913305.6/12

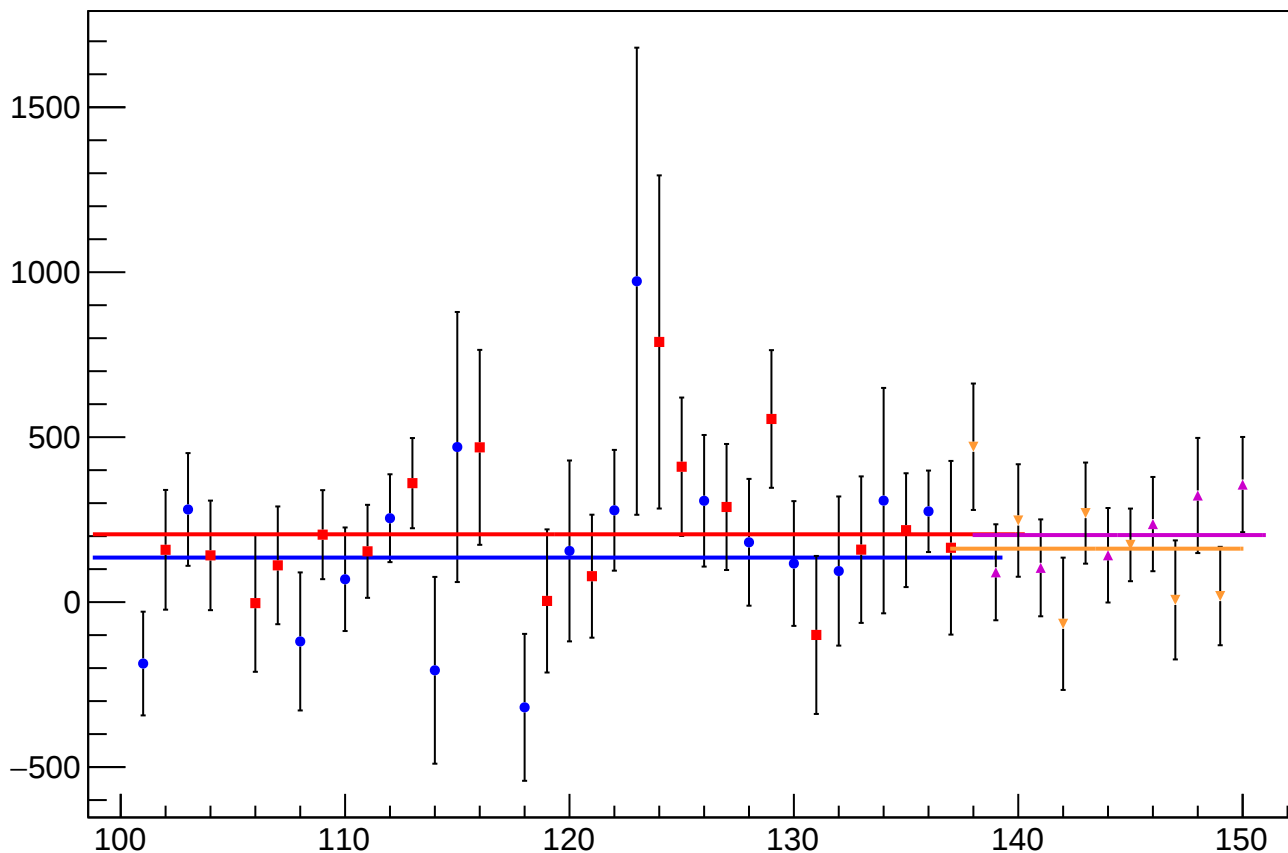
Right: 590.409 $\pm$ 0.115  $\chi^2$ /NDF: 813814.1/34

In: 325.087 $\pm$ 0.076  $\chi^2$ /NDF: 4692987.0/22

Out: 356.477 $\pm$ 0.080  $\chi^2$ /NDF: 4092395.8/24

All: 339.995 $\pm$ 0.055  $\chi^2$ /NDF: 8866219.8/47

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: 162.007 $\pm$ 58.994  $\chi^2$ /NDF:6.3/6

Right Out: 205.590 $\pm$ 44.536  $\chi^2$ /NDF: 12.0/17

Left In: 203.258 $\pm$ 60.610  $\chi^2$ /NDF:2.9/5

Left: 182.075 $\pm$ 42.275  $\chi^2$ /NDF: 9.4/12

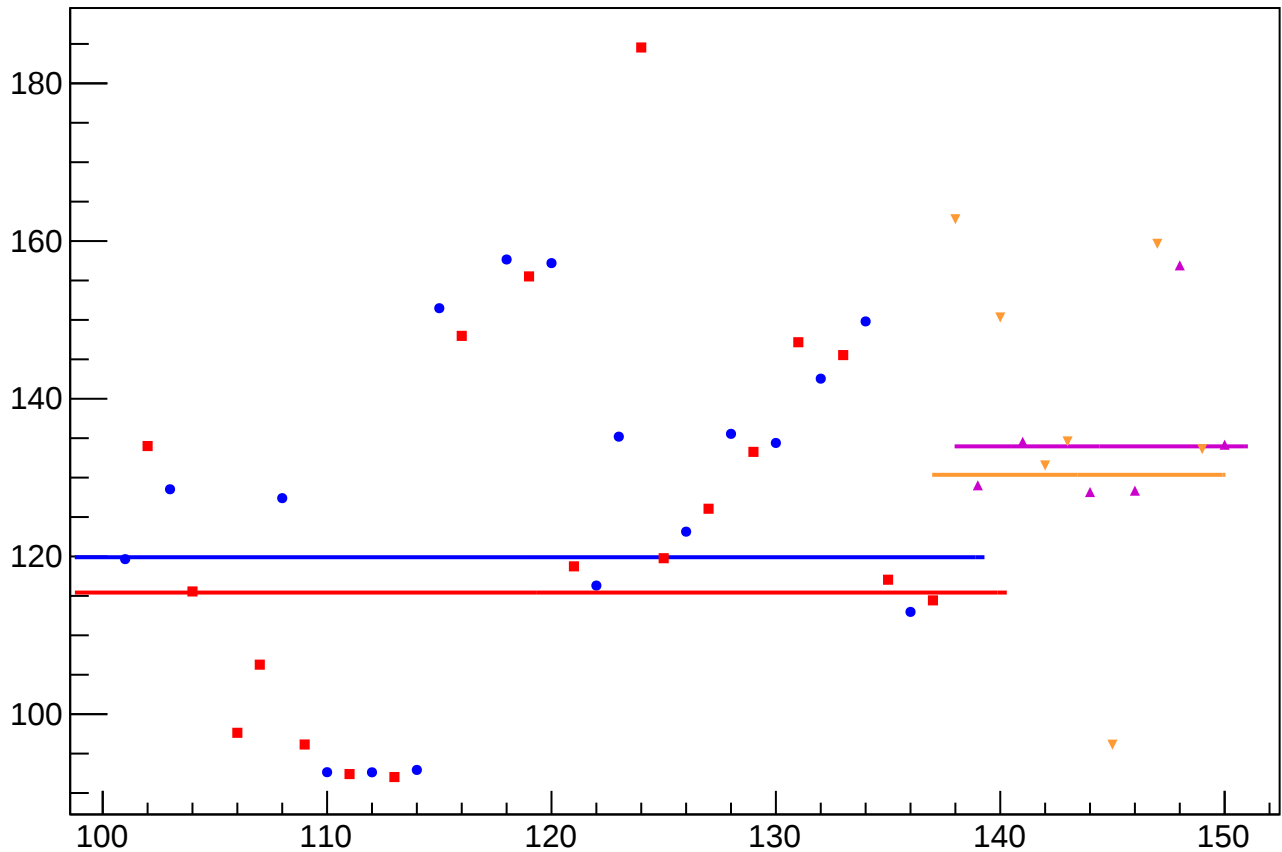
Right: 172.226 $\pm$ 32.336  $\chi^2$ /NDF: 31.3/34

In: 160.666 $\pm$ 37.154  $\chi^2$ /NDF:21.7/22

Out: 189.769 $\pm$ 35.544  $\chi^2$ /NDF:18.7/24

All: 175.862 $\pm$ 25.684  $\chi^2$ /NDF: 40.7/47

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 119.903+/-0.033  $\chi^2/\text{NDF}$ : 345510.5/16

Left Out: 130.356+/-0.042  $\chi^2/\text{NDF}$ :333298.1/6

Right Out: 115.422+/-0.031  $\chi^2/\text{NDF}$ : 418100.5/17

Left In: 133.963+/-0.043  $\chi^2/\text{NDF}$ :43311.9/5

Left: 132.111+/-0.030  $\chi^2/\text{NDF}$ : 380247.4/12

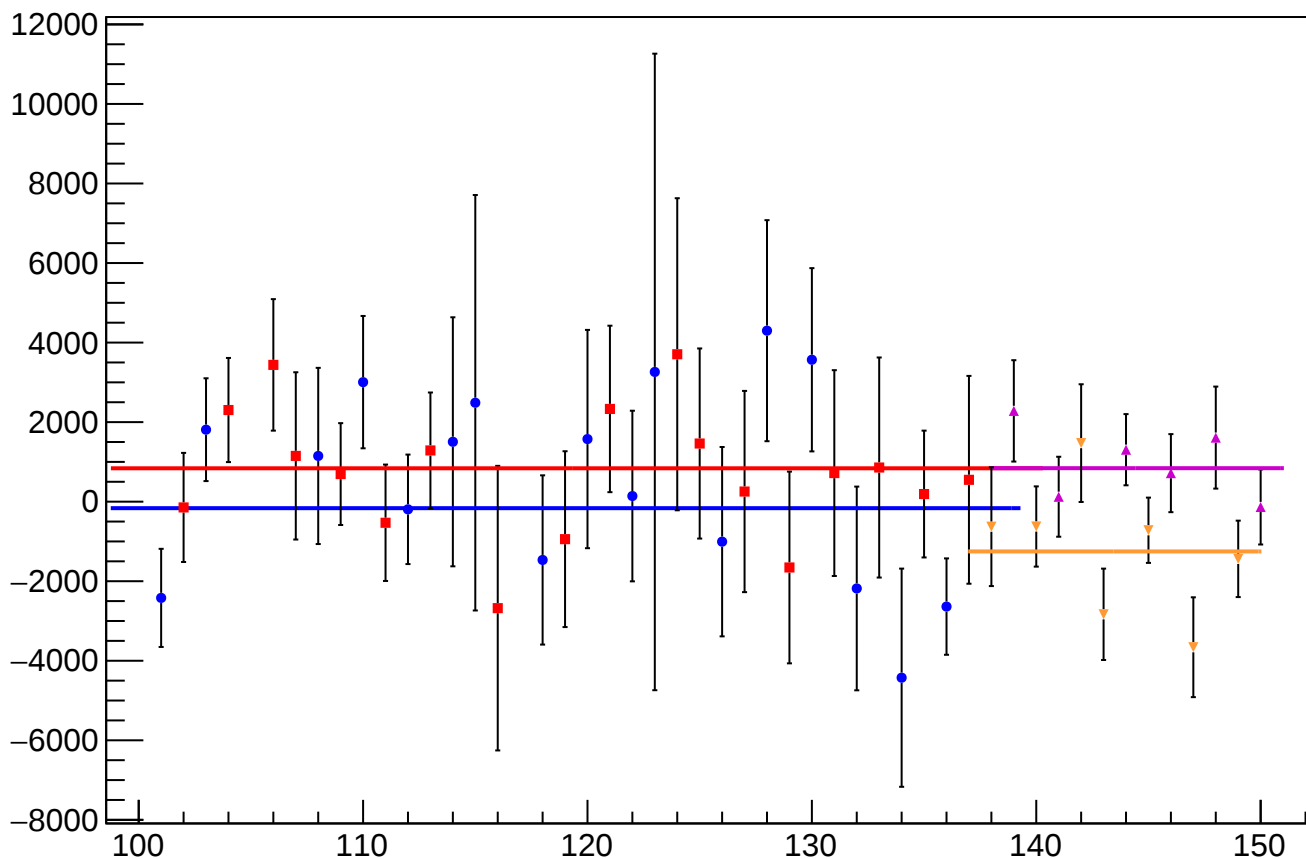
Right: 117.541+/-0.023  $\chi^2/\text{NDF}$ : 773185.8/34

In: 125.186+/-0.026  $\chi^2/\text{NDF}$ :456002.2/22

Out: 120.843+/-0.025  $\chi^2/\text{NDF}$ :833035.9/24

All: 122.919+/-0.018  $\chi^2/\text{NDF}$ : 1303307.2/47

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: -1251.333 $\pm$ 413.501  $\chi^2$ /NDF: 10.0/6

Right Out: 839.187 $\pm$ 440.476  $\chi^2$ /NDF: 9.3/17

Left In: 842.012 $\pm$ 421.748  $\chi^2$ /NDF: 3.5/5

Left: -225.326 $\pm$ 295.262  $\chi^2$ /NDF: 26.0/12

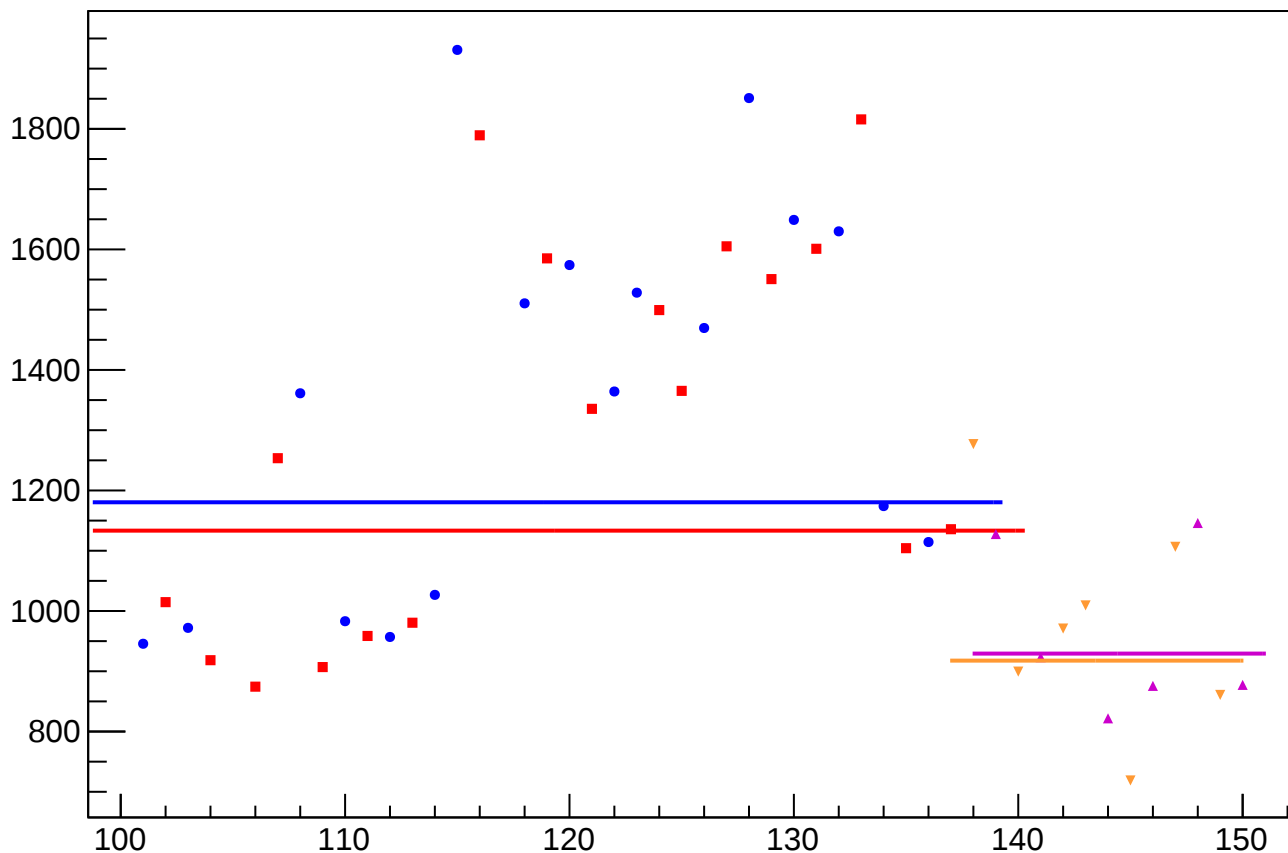
Right: 369.872 $\pm$ 321.264  $\chi^2$ /NDF: 35.4/34

In: 393.056 $\pm$ 313.776  $\chi^2$ /NDF: 29.7/22

Out: -272.040 $\pm$ 301.475  $\chi^2$ /NDF: 31.2/24

All: 47.215 $\pm$ 217.394  $\chi^2$ /NDF: 63.3/47

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: 917.659+/-0.292  $\chi^2/\text{NDF}$ : 301457.2/6

Right Out: 1133.347+/-0.311  $\chi^2/\text{NDF}$ : 760395.8/17

Left In: 929.329+/-0.298  $\chi^2/\text{NDF}$ : 146443.7/5

Left: 923.379+/-0.209  $\chi^2/\text{NDF}$ : 448681.7/12

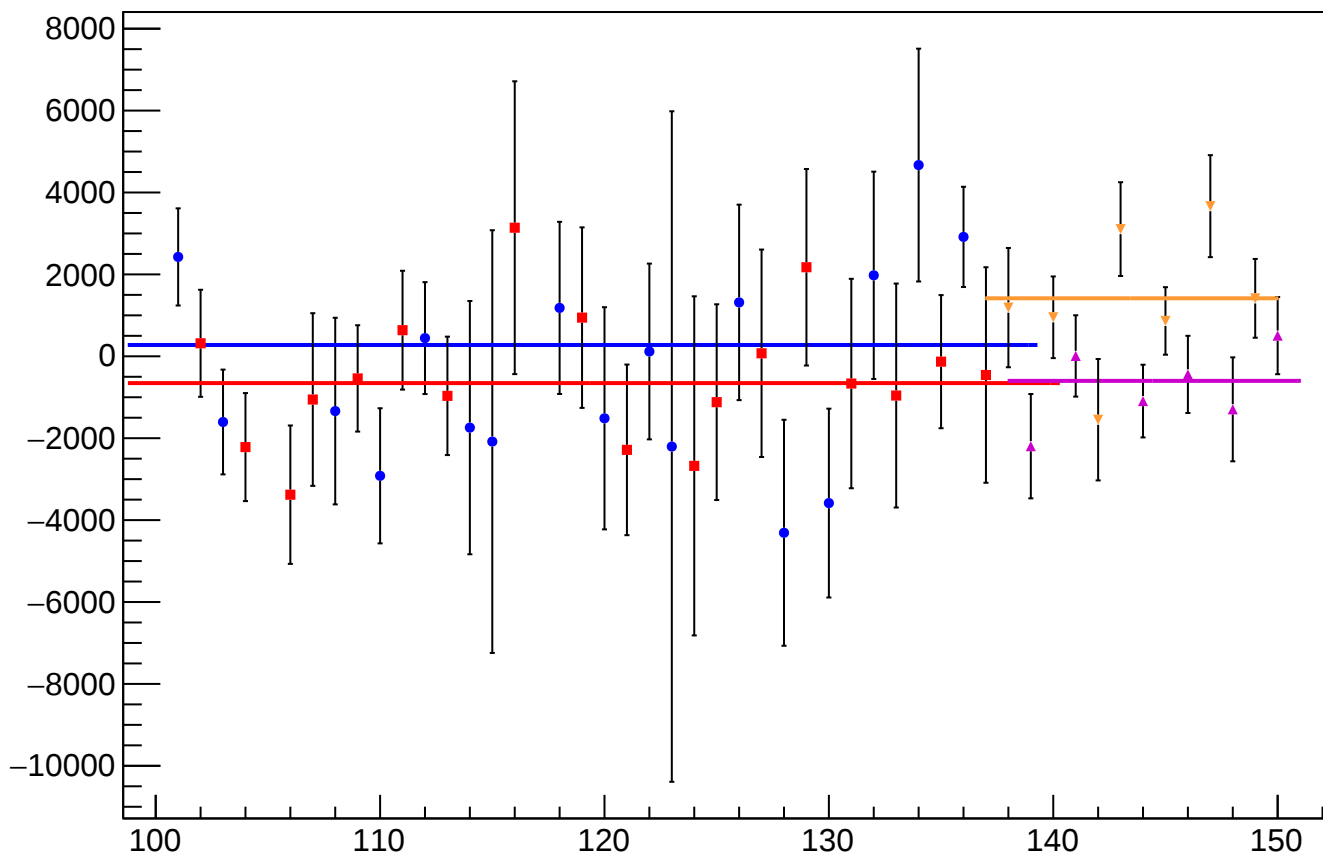
Right: 1155.371+/-0.227  $\chi^2/\text{NDF}$ : 1439924.5/34

In: 1041.428+/-0.222  $\chi^2/\text{NDF}$ : 1131755.4/22

Out: 1018.697+/-0.213  $\chi^2/\text{NDF}$ : 1316762.6/24

All: 1029.608+/-0.154  $\chi^2/\text{NDF}$ : 2453975.8/47

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 276.422 $\pm$ 466.424  $\chi^2$ /NDF: 24.3/16

Left Out: 1416.530 $\pm$ 412.004  $\chi^2$ /NDF:10.1/6

Right Out: -654.406 $\pm$ 439.824  $\chi^2$ /NDF: 9.6/17

Left In: -600.059 $\pm$ 416.207  $\chi^2$ /NDF:4.0/5

Left: 418.468 $\pm$ 292.805  $\chi^2$ /NDF: 25.9/12

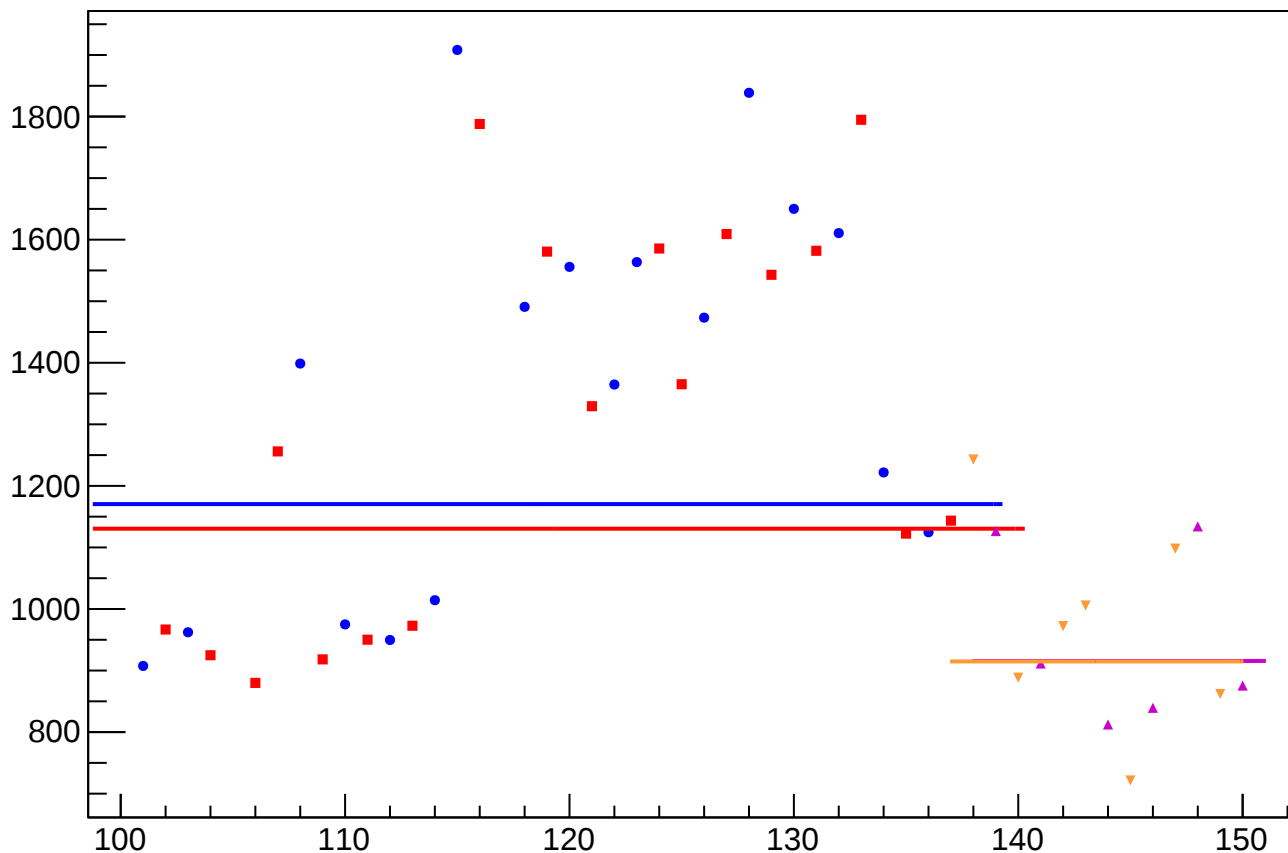
Right: -216.291 $\pm$ 319.993  $\chi^2$ /NDF: 36.0/34

In: -211.526 $\pm$ 310.545  $\chi^2$ /NDF:30.2/22

Out: 448.624 $\pm$ 300.685  $\chi^2$ /NDF:31.5/24

All: 129.195 $\pm$ 216.018  $\chi^2$ /NDF: 64.1/47

# 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: 914.791 $\pm$ 0.291  $\chi^2/\text{NDF}$ :277790.1/6

Right Out: 1130.456 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 763027.2/17

Left In: 915.568 $\pm$ 0.294  $\chi^2/\text{NDF}$ :157940.8/5

Left: 915.176 $\pm$ 0.207  $\chi^2/\text{NDF}$ : 435734.4/12

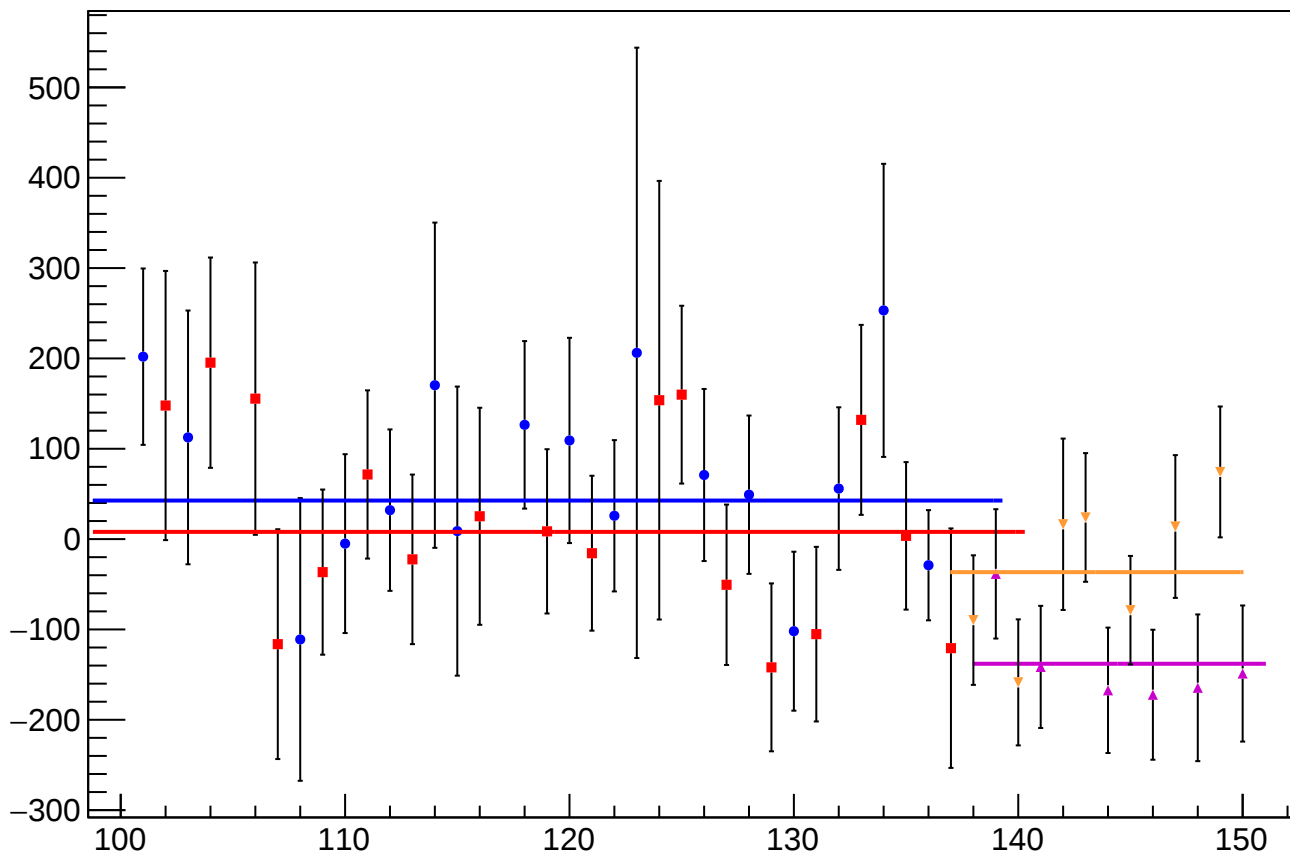
Right: 1149.259 $\pm$ 0.226  $\chi^2/\text{NDF}$ : 1476279.7/34

In: 1028.534 $\pm$ 0.220  $\chi^2/\text{NDF}$ :1195795.5/22

Out: 1015.588 $\pm$ 0.213  $\chi^2/\text{NDF}$ :1296944.0/24

All: 1021.852 $\pm$ 0.153  $\chi^2/\text{NDF}$ : 2494533.6/47

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:  $-36.581 \pm 27.356$   $\chi^2/\text{NDF}: 7.9/6$

Right Out:  $7.995 \pm 24.492$   $\chi^2/\text{NDF}: 15.8/17$

Left In:  $-137.998 \pm 29.582$   $\chi^2/\text{NDF}: 2.5/5$

Left:  $-83.330 \pm 20.084$   $\chi^2/\text{NDF}: 16.7/12$

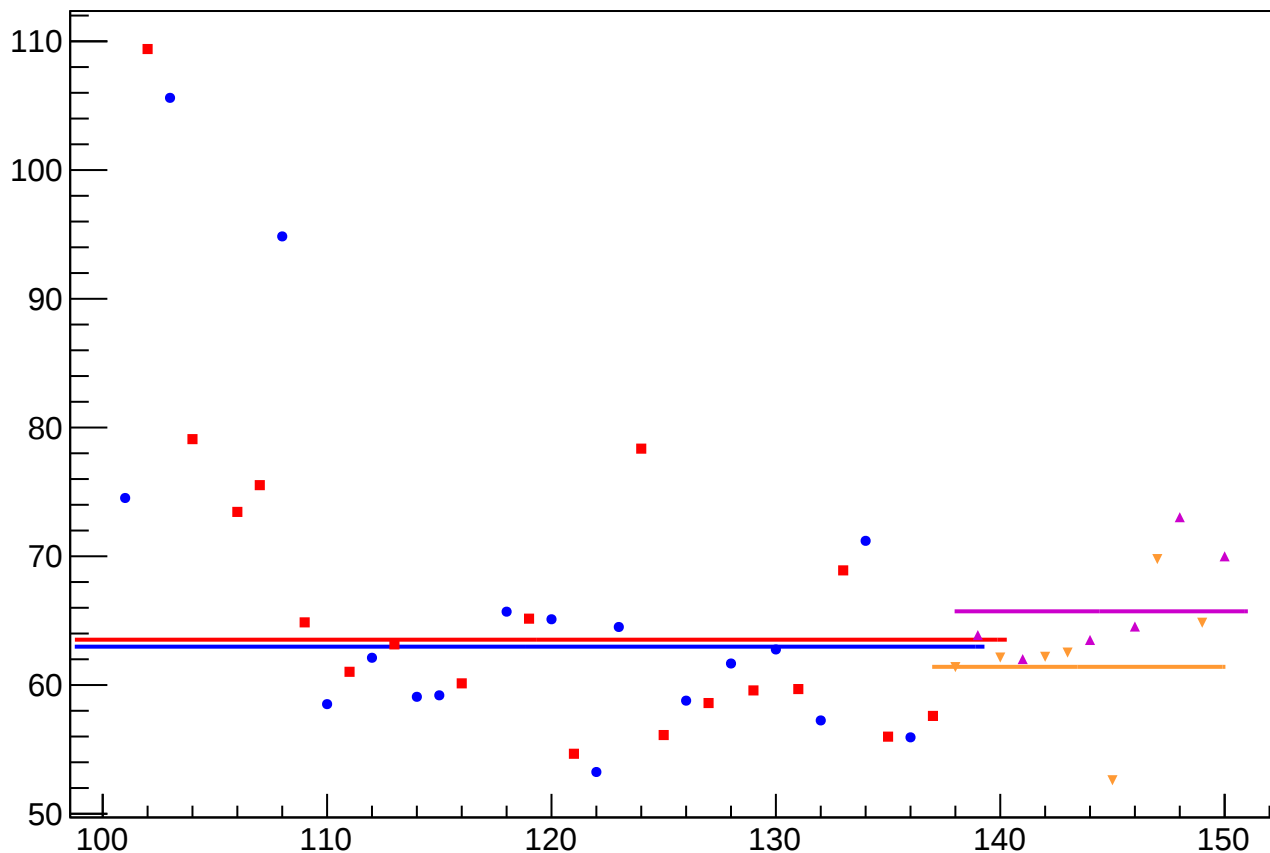
Right:  $25.187 \pm 17.392$   $\chi^2/\text{NDF}: 28.8/34$

In:  $-31.546 \pm 18.960$   $\chi^2/\text{NDF}: 36.4/22$

Out:  $-11.839 \pm 18.247$   $\chi^2/\text{NDF}: 25.1/24$

All:  $-21.315 \pm 13.148$   $\chi^2/\text{NDF}: 62.1/47$

dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In:  $62.980 \pm 0.017$   $\chi^2/\text{NDF}: 375263.3/16$

Left Out:  $61.413 \pm 0.019$   $\chi^2/\text{NDF}: 70790.0/6$

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}: 335430.9/17$

Left In:  $65.725 \pm 0.021$   $\chi^2/\text{NDF}: 32596.0/5$

Left:  $63.401 \pm 0.014$   $\chi^2/\text{NDF}: 126285.3/12$

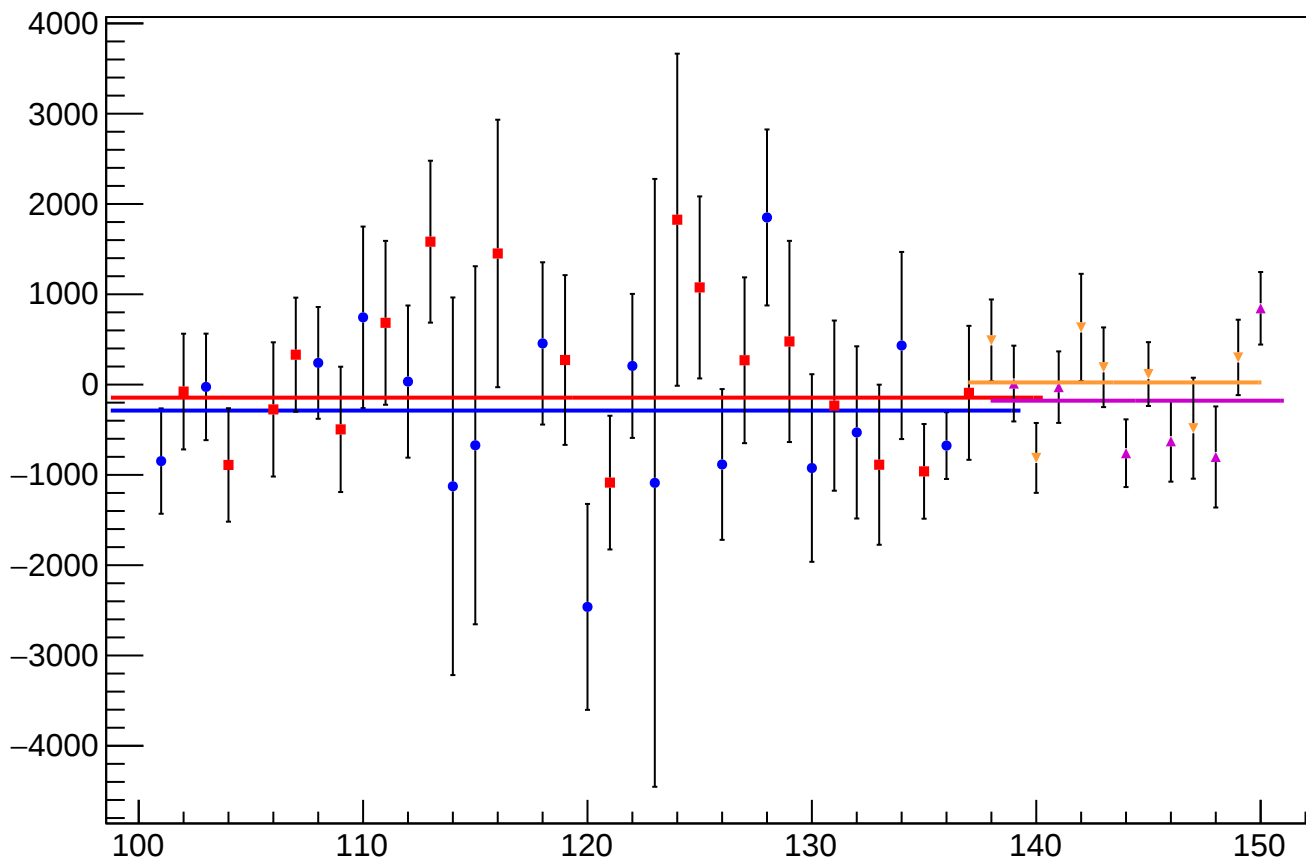
Right:  $63.253 \pm 0.012$   $\chi^2/\text{NDF}: 711180.0/34$

In:  $64.108 \pm 0.013$   $\chi^2/\text{NDF}: 418002.0/22$

Out:  $62.584 \pm 0.013$   $\chi^2/\text{NDF}: 412819.0/24$

All:  $63.317 \pm 0.009$   $\chi^2/\text{NDF}: 837526.6/47$

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-287.682 \pm 189.888$   $\chi^2/\text{NDF}: 15.4/16$

Left Out:  $23.673 \pm 165.609$   $\chi^2/\text{NDF}: 8.3/6$

Right Out:  $-144.624 \pm 187.777$   $\chi^2/\text{NDF}: 16.1/17$

Left In:  $-178.276 \pm 172.617$   $\chi^2/\text{NDF}: 11.5/5$

Left:  $-73.119 \pm 119.504$   $\chi^2/\text{NDF}: 20.5/12$

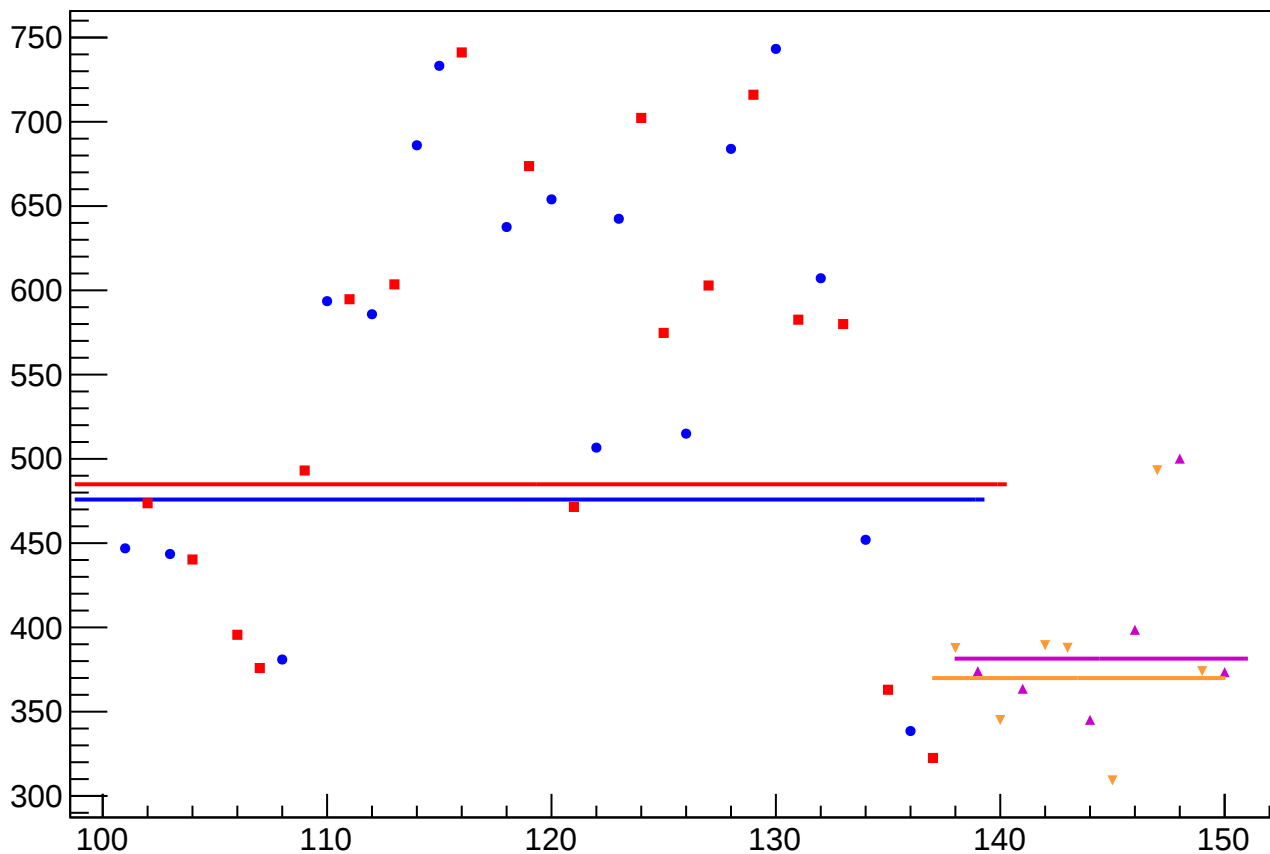
Right:  $-215.353 \pm 133.518$   $\chi^2/\text{NDF}: 31.7/34$

In:  $-227.778 \pm 127.729$   $\chi^2/\text{NDF}: 27.0/22$

Out:  $-49.960 \pm 124.205$   $\chi^2/\text{NDF}: 24.8/24$

All:  $-136.382 \pm 89.046$   $\chi^2/\text{NDF}: 52.8/47$

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 475.871+/-0.134  $\chi^2/\text{NDF}$ : 837808.5/16

Left Out: 369.944+/-0.117  $\chi^2/\text{NDF}$ : 173246.6/6

Right Out: 484.914+/-0.133  $\chi^2/\text{NDF}$ : 716315.8/17

Left In: 381.477+/-0.122  $\chi^2/\text{NDF}$ : 117093.9/5

Left: 375.471+/-0.085  $\chi^2/\text{NDF}$ : 294989.0/12

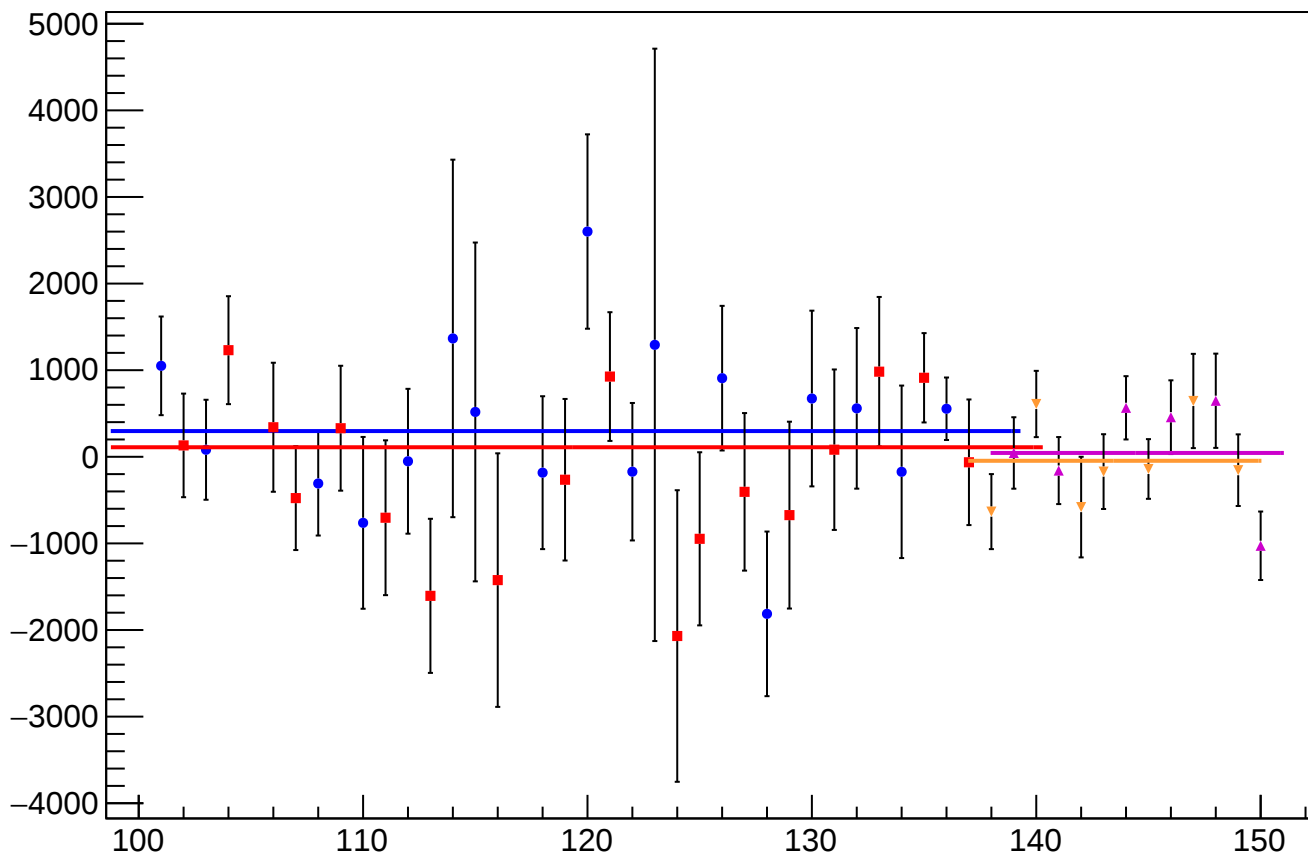
Right: 480.443+/-0.094  $\chi^2/\text{NDF}$ : 1556417.6/34

In: 424.187+/-0.090  $\chi^2/\text{NDF}$ : 1225509.4/22

Out: 420.245+/-0.088  $\chi^2/\text{NDF}$ : 1311281.7/24

All: 422.161+/-0.063  $\chi^2/\text{NDF}$ : 2537769.9/47

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: -46.175 $\pm$ 161.951  $\chi^2$ /NDF: 7.5/6

Right Out: 110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

Left In: 44.430 $\pm$ 168.216  $\chi^2$ /NDF: 11.8/5

Left: -2.591 $\pm$ 116.669  $\chi^2$ /NDF: 19.4/12

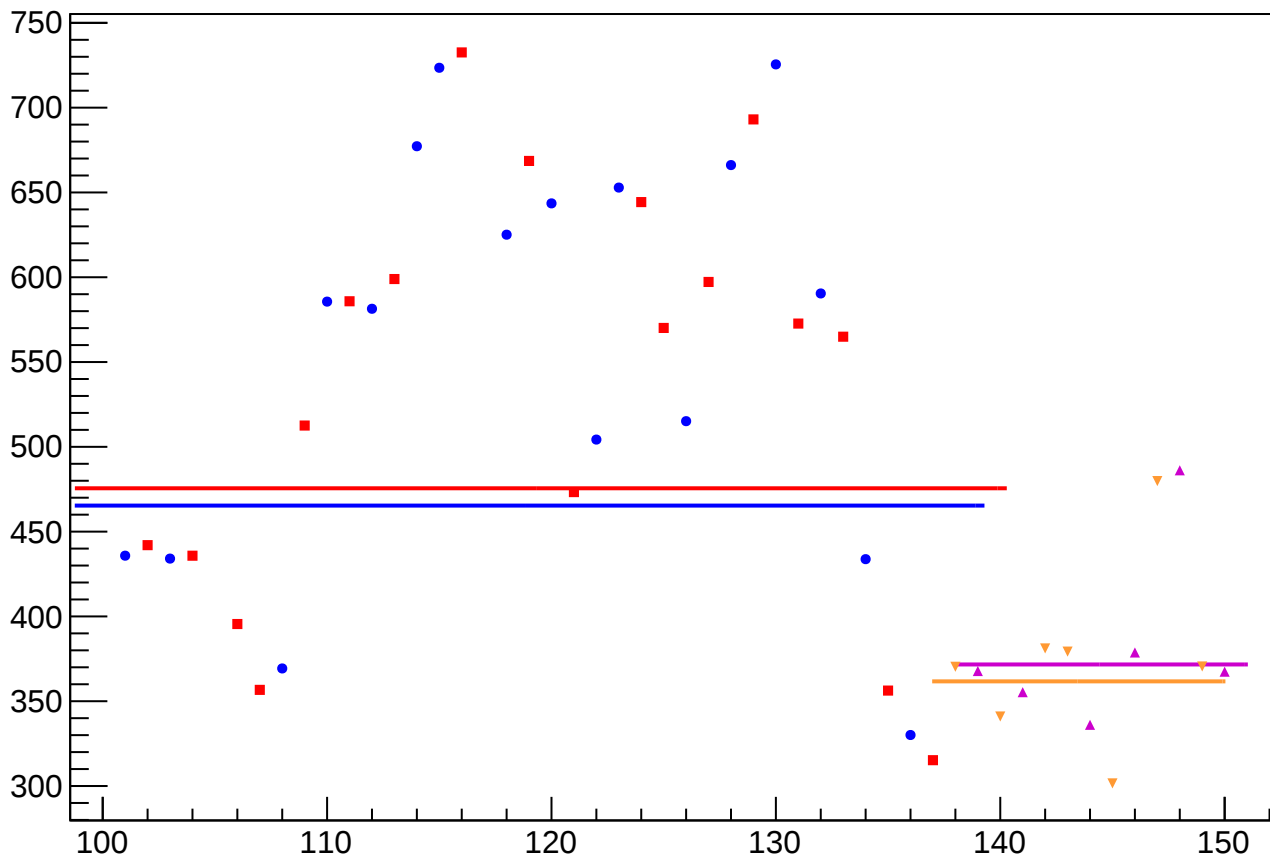
Right: 202.768 $\pm$ 130.944  $\chi^2$ /NDF: 34.9/34

In: 158.075 $\pm$ 124.754  $\chi^2$ /NDF: 28.7/22

Out: 21.894 $\pm$ 121.684  $\chi^2$ /NDF: 26.4/24

All: 88.288 $\pm$ 87.109  $\chi^2$ /NDF: 55.7/47

asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 465.356 $\pm$ 0.132  $\chi^2$ /NDF: 860420.4/16

Left Out: 361.706 $\pm$ 0.115  $\chi^2$ /NDF: 168193.3/6

Right Out: 475.559 $\pm$ 0.130  $\chi^2$ /NDF: 740849.9/17

Left In: 371.674 $\pm$ 0.119  $\chi^2$ /NDF: 112010.2/5

Left: 366.501 $\pm$ 0.082  $\chi^2$ /NDF: 283848.5/12

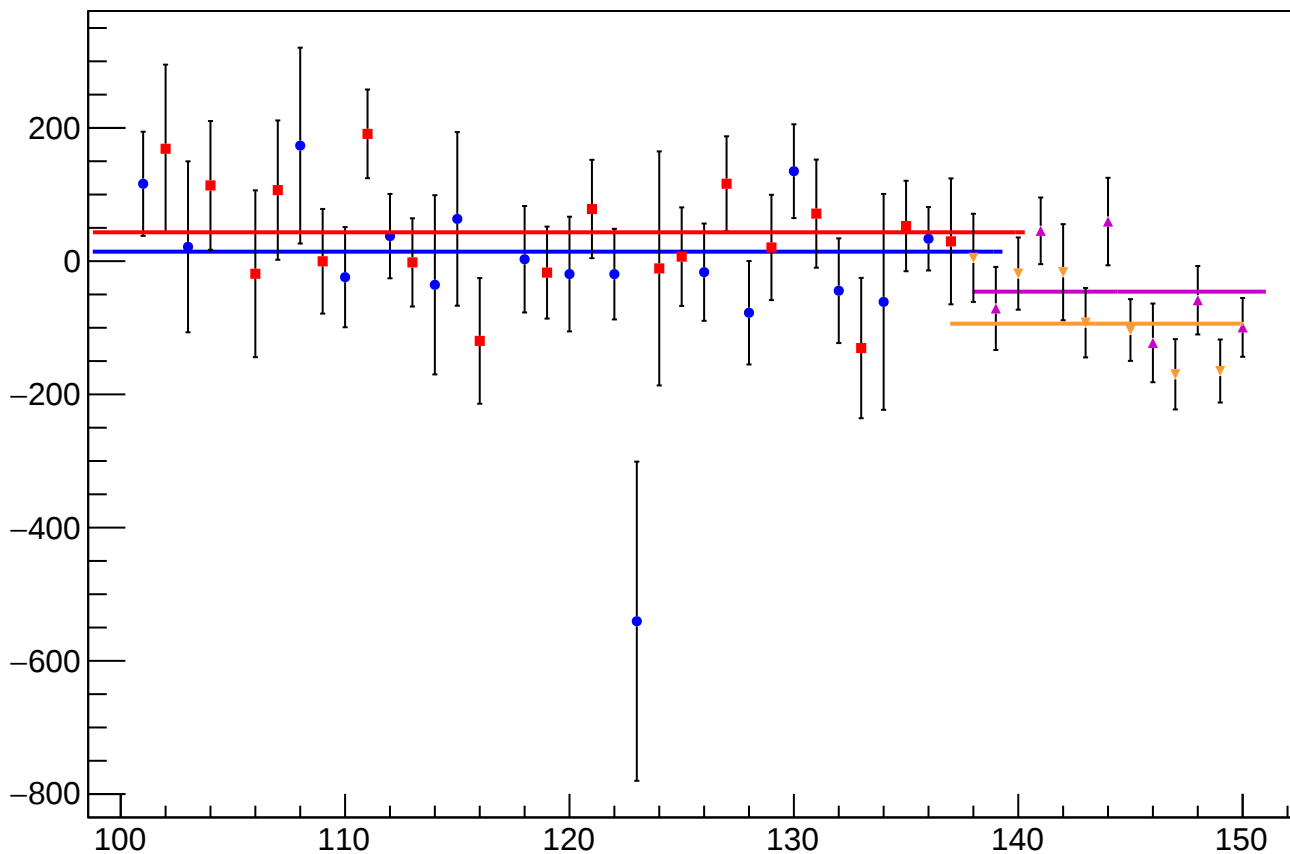
Right: 470.501 $\pm$ 0.093  $\chi^2$ /NDF: 1604306.1/34

In: 413.829 $\pm$ 0.088  $\chi^2$ /NDF: 1251556.9/22

Out: 411.284 $\pm$ 0.086  $\chi^2$ /NDF: 1339468.1/24

All: 412.525 $\pm$ 0.062  $\chi^2$ /NDF: 2591451.7/47

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 14.253+/-19.867  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -93.834+/-20.411  $\chi^2/\text{NDF}$ : 9.7/6

Right Out: 43.336+/-19.650  $\chi^2/\text{NDF}$ : 16.2/17

Left In: -45.788+/-21.992  $\chi^2/\text{NDF}$ : 9.3/5

Left: -71.600+/-14.961  $\chi^2/\text{NDF}$ : 21.5/12

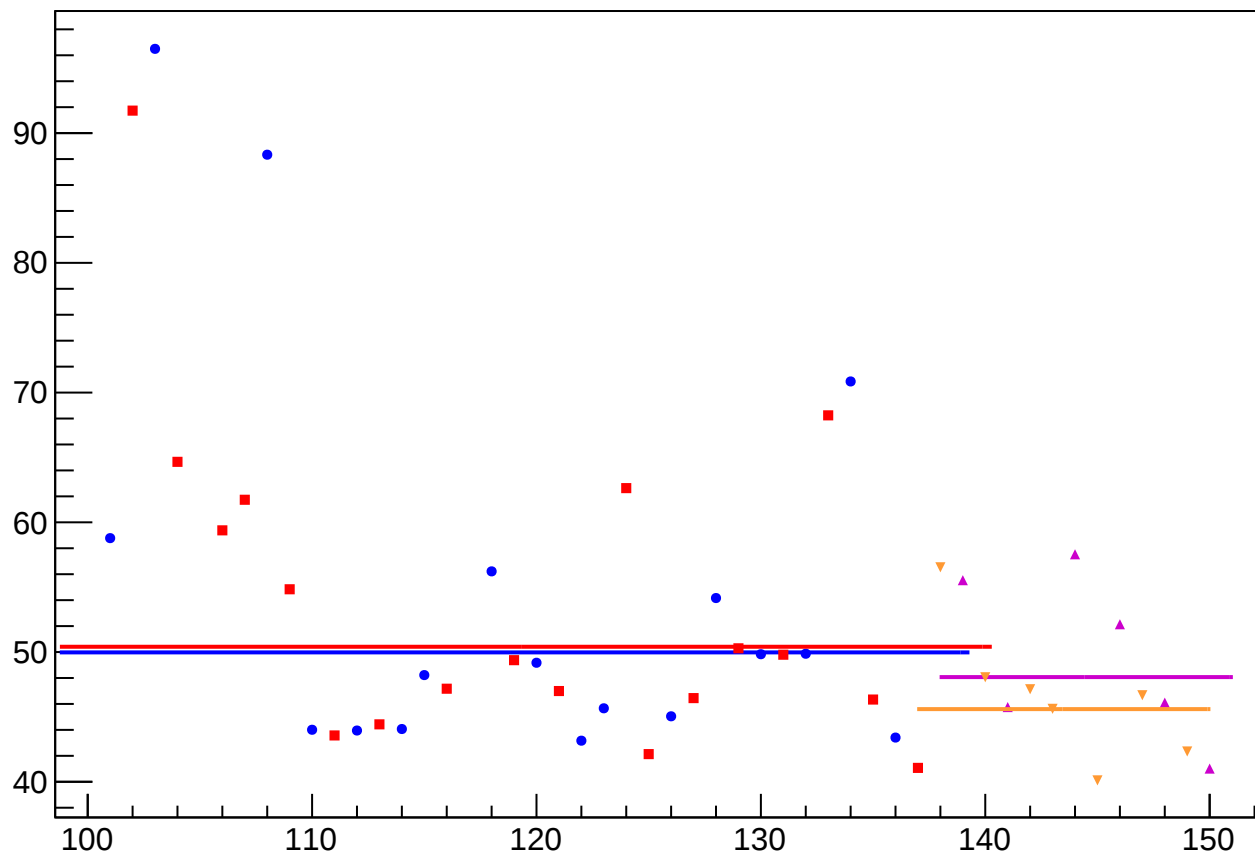
Right: 28.954+/-13.971  $\chi^2/\text{NDF}$ : 32.0/34

In: -12.726+/-14.742  $\chi^2/\text{NDF}$ : 28.2/22

Out: -22.643+/-14.156  $\chi^2/\text{NDF}$ : 49.3/24

All: -17.886+/-10.211  $\chi^2/\text{NDF}$ : 77.7/47

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 49.973+/-0.014  $\chi^2/\text{NDF}$ : 578750.7/16

Left Out: 45.601+/-0.014  $\chi^2/\text{NDF}$ : 98072.1/6

Right Out: 50.408+/-0.014  $\chi^2/\text{NDF}$ : 467481.4/17

Left In: 48.069+/-0.016  $\chi^2/\text{NDF}$ : 138049.2/5

Left: 46.743+/-0.011  $\chi^2/\text{NDF}$ : 249658.2/12

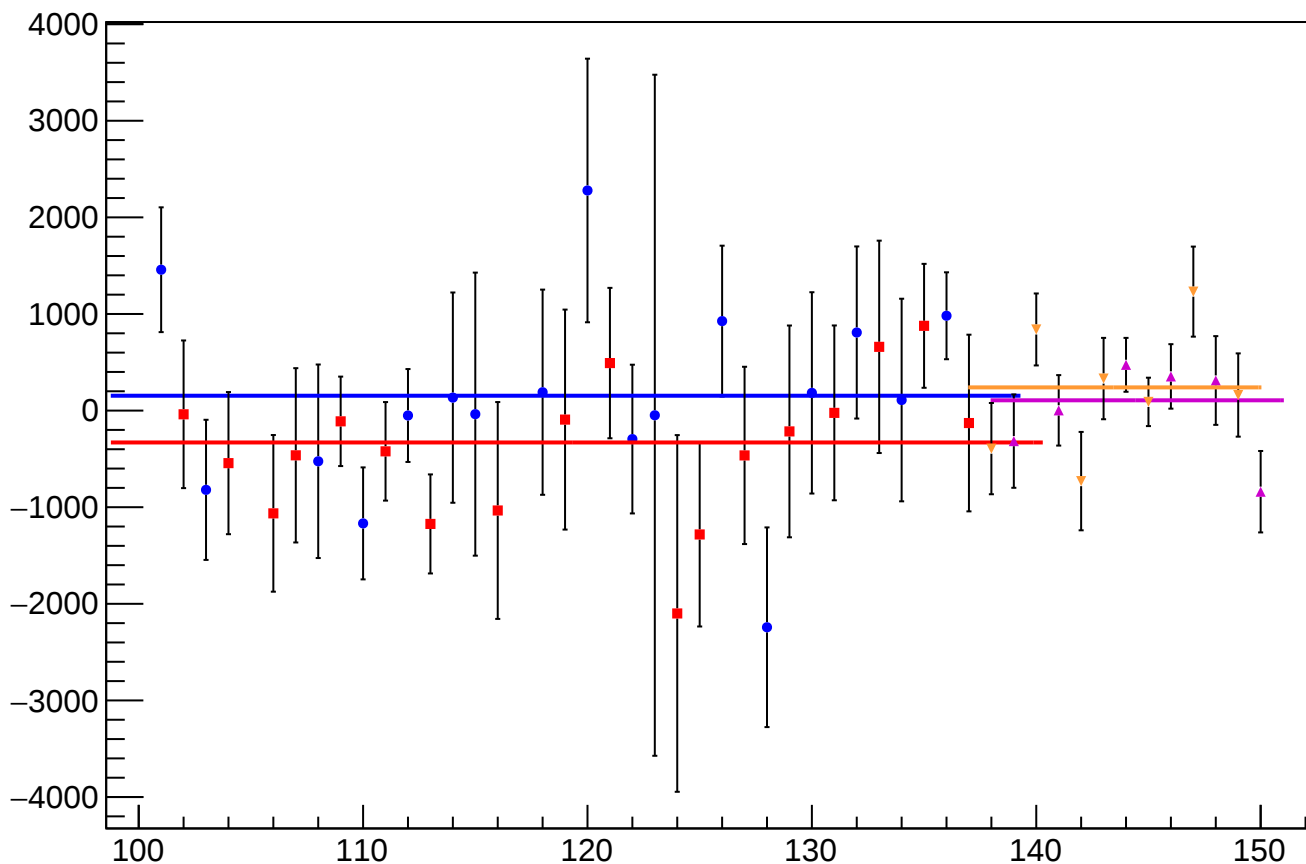
Right: 50.193+/-0.010  $\chi^2/\text{NDF}$ : 1046716.4/34

In: 49.118+/-0.010  $\chi^2/\text{NDF}$ : 725052.5/22

Out: 48.096+/-0.010  $\chi^2/\text{NDF}$ : 623128.5/24

All: 48.586+/-0.007  $\chi^2/\text{NDF}$ : 1353181.1/47

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: 240.151 $\pm$ 145.691  $\chi^2$ /NDF:13.0/6

Right Out: -329.952 $\pm$ 179.795  $\chi^2$ /NDF: 12.1/17

Left In: 106.444 $\pm$ 150.738  $\chi^2$ /NDF:8.4/5

Left: 175.574 $\pm$ 104.758  $\chi^2$ /NDF: 21.8/12

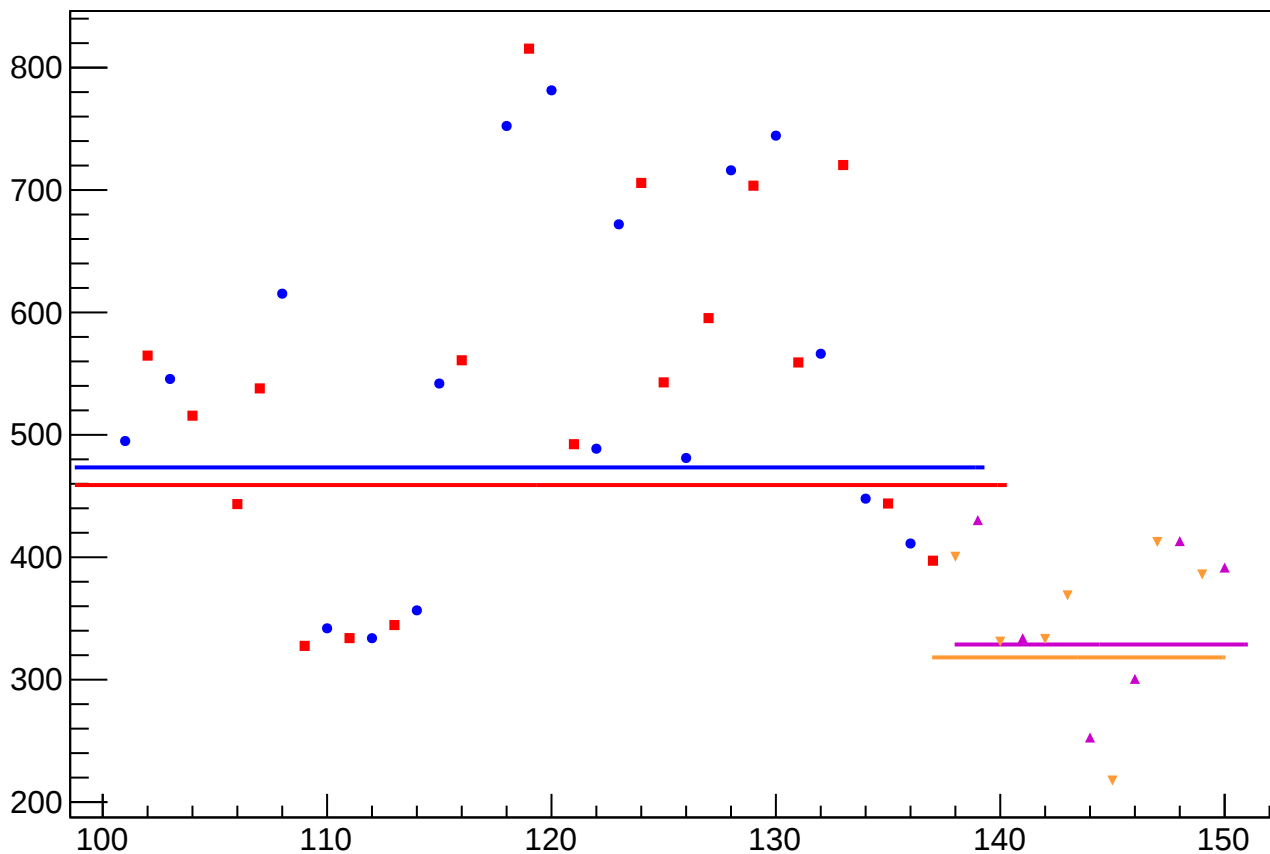
Right: -101.350 $\pm$ 130.581  $\chi^2$ /NDF: 40.3/34

In: 124.758 $\pm$ 118.079  $\chi^2$ /NDF:33.2/22

Out: 14.185 $\pm$ 113.193  $\chi^2$ /NDF:31.1/24

All: 67.136 $\pm$ 81.713  $\chi^2$ /NDF: 64.8/47

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: 318.189 $\pm$ 0.103  $\chi^2$ /NDF: 547650.2/6

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

Left In: 328.740 $\pm$ 0.107  $\chi^2$ /NDF: 363619.2/5

Left: 323.285 $\pm$ 0.074  $\chi^2$ /NDF: 916335.9/12

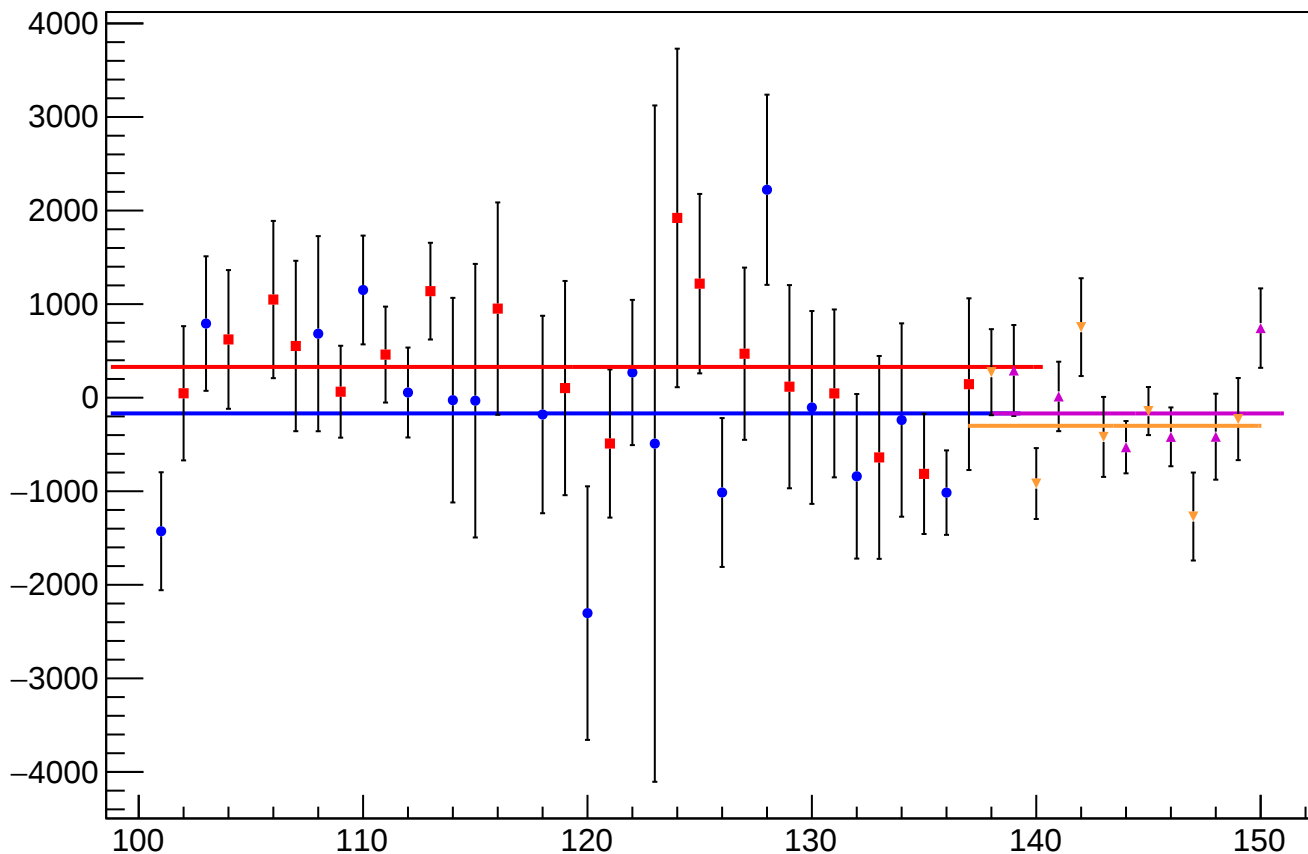
Right: 465.801 $\pm$ 0.092  $\chi^2$ /NDF: 1927262.4/34

In: 384.636 $\pm$ 0.083  $\chi^2$ /NDF: 1990299.4/22

Out: 373.996 $\pm$ 0.080  $\chi^2$ /NDF: 2294291.3/24

All: 379.091 $\pm$ 0.058  $\chi^2$ /NDF: 4293052.6/47

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -168.049+/-189.758  $\chi^2/\text{NDF}$ : 25.4/16

Left Out: -300.697+/-147.924  $\chi^2/\text{NDF}$ :13.0/6

Right Out: 328.598+/-181.559  $\chi^2/\text{NDF}$ : 11.1/17

Left In: -168.533+/-149.550  $\chi^2/\text{NDF}$ :8.3/5

Left: -235.337+/-105.168  $\chi^2/\text{NDF}$ : 21.8/12

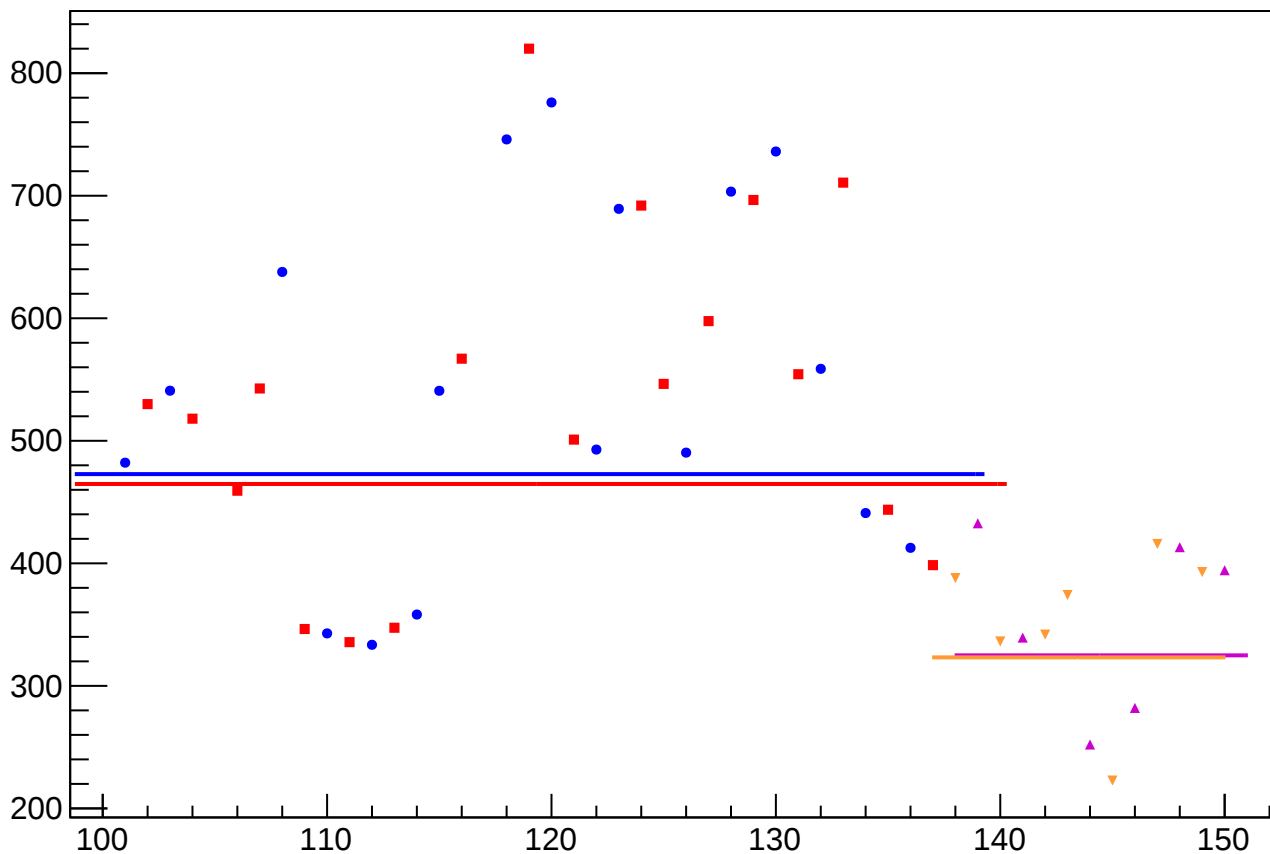
Right: 91.236+/-131.185  $\chi^2/\text{NDF}$ : 40.1/34

In: -168.347+/-117.457  $\chi^2/\text{NDF}$ :33.8/22

Out: -49.627+/-114.680  $\chi^2/\text{NDF}$ :31.4/24

All: -107.567+/-82.055  $\chi^2/\text{NDF}$ : 65.6/47

# 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: 323.253+/-0.105  $\chi^2/\text{NDF}$ : 507166.8/6

Right Out: 464.761+/-0.128  $\chi^2/\text{NDF}$ : 914781.1/17

Left In: 324.907+/-0.106  $\chi^2/\text{NDF}$ : 401782.9/5

Left: 324.071+/-0.074  $\chi^2/\text{NDF}$ : 909073.4/12

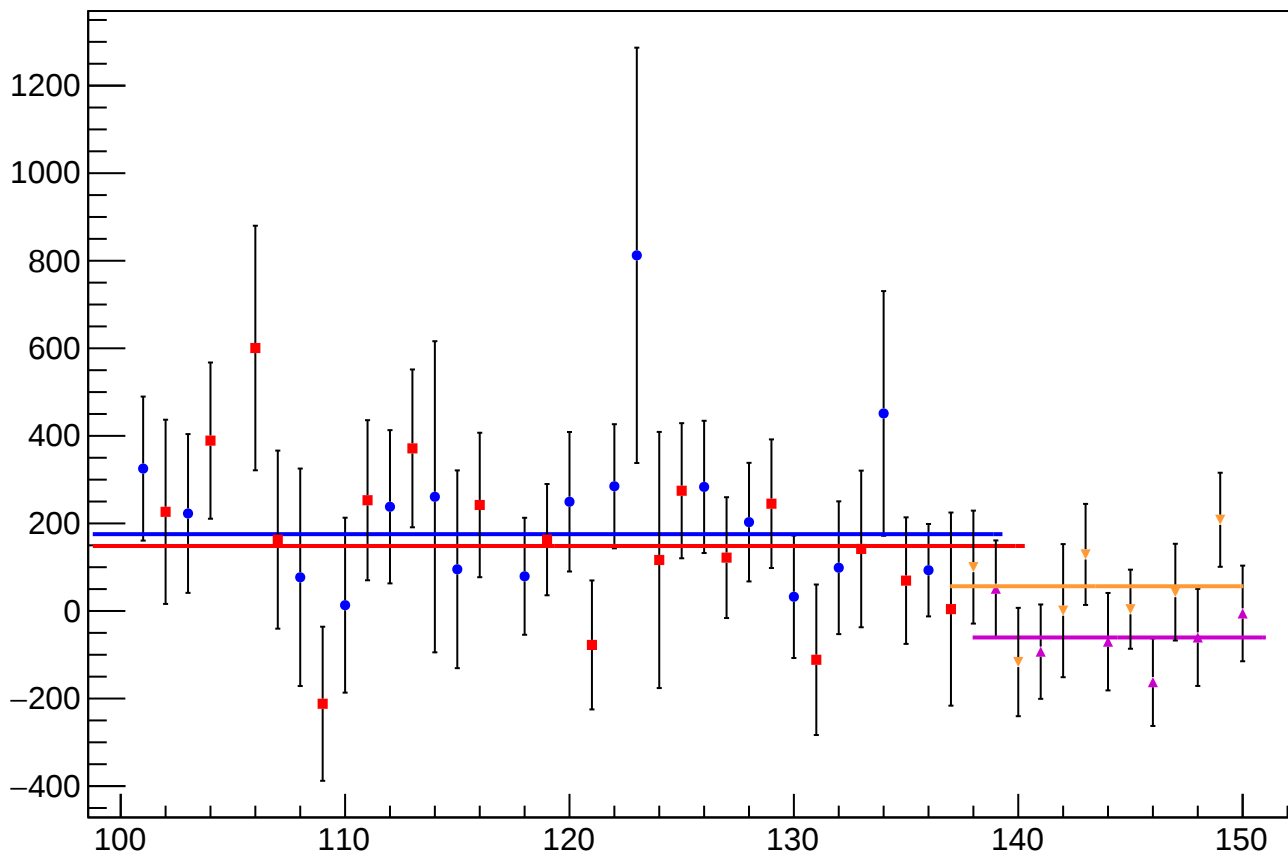
Right: 468.612+/-0.093  $\chi^2/\text{NDF}$ : 1813037.9/34

In: 381.578+/-0.083  $\chi^2/\text{NDF}$ : 2047748.4/22

Out: 379.710+/-0.081  $\chi^2/\text{NDF}$ : 2152158.0/24

All: 380.622+/-0.058  $\chi^2/\text{NDF}$ : 4200165.4/47

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 175.468 $\pm$ 40.358  $\chi^2$ /NDF: 8.6/16

Left Out: 56.492 $\pm$ 43.237  $\chi^2$ /NDF:5.0/6

Right Out: 148.445 $\pm$ 40.332  $\chi^2$ /NDF: 17.5/17

Left In: -60.534 $\pm$ 44.111  $\chi^2$ /NDF:2.4/5

Left: -0.849 $\pm$ 30.878  $\chi^2$ /NDF: 10.9/12

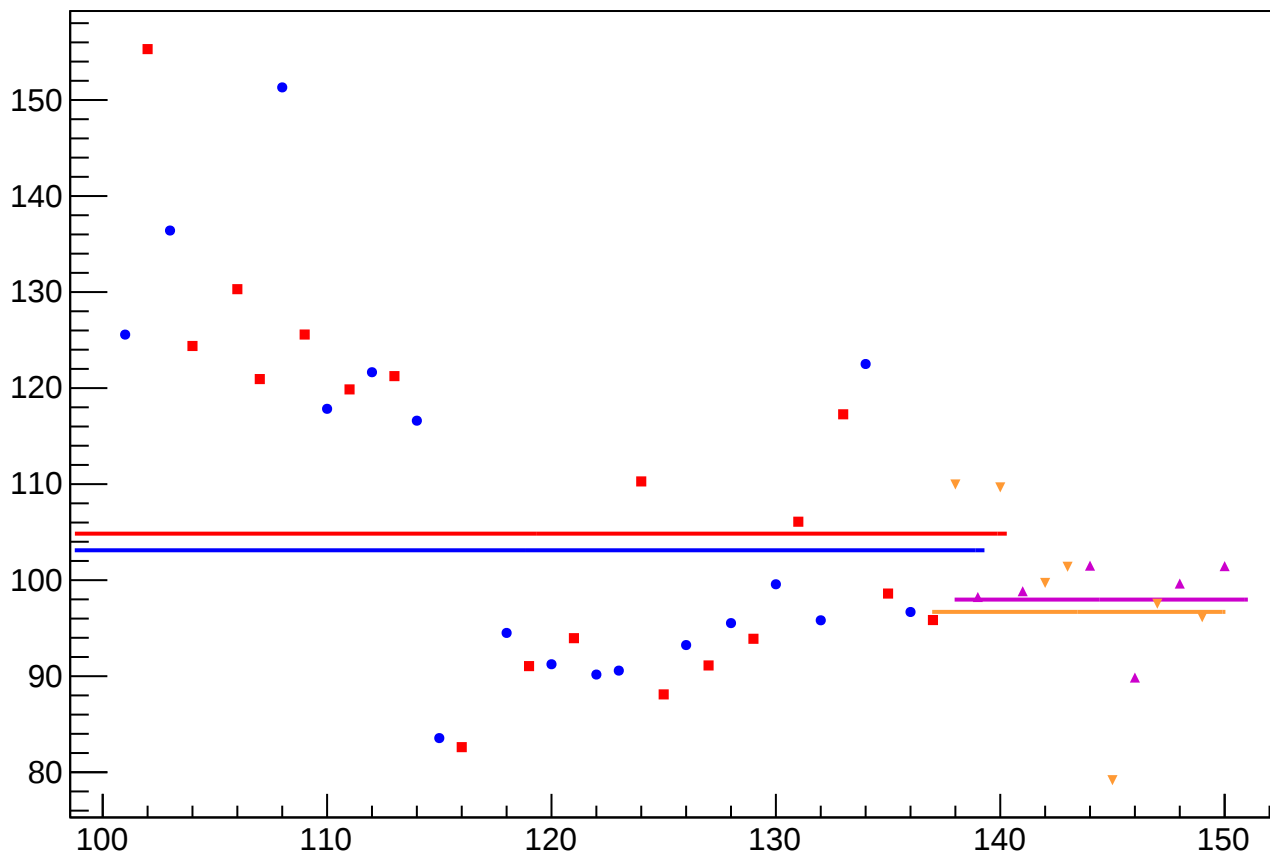
Right: 161.947 $\pm$ 28.528  $\chi^2$ /NDF: 26.3/34

In: 67.932 $\pm$ 29.776  $\chi^2$ /NDF:26.6/22

Out: 105.661 $\pm$ 29.492  $\chi^2$ /NDF:24.9/24

All: 86.977 $\pm$ 20.954  $\chi^2$ /NDF: 52.2/47

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: 96.698 $\pm$ 0.031  $\chi^2$ /NDF:122655.2/6

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

Left In: 97.978 $\pm$ 0.031  $\chi^2$ /NDF:17807.6/5

Left: 97.325 $\pm$ 0.022  $\chi^2$ /NDF: 141321.5/12

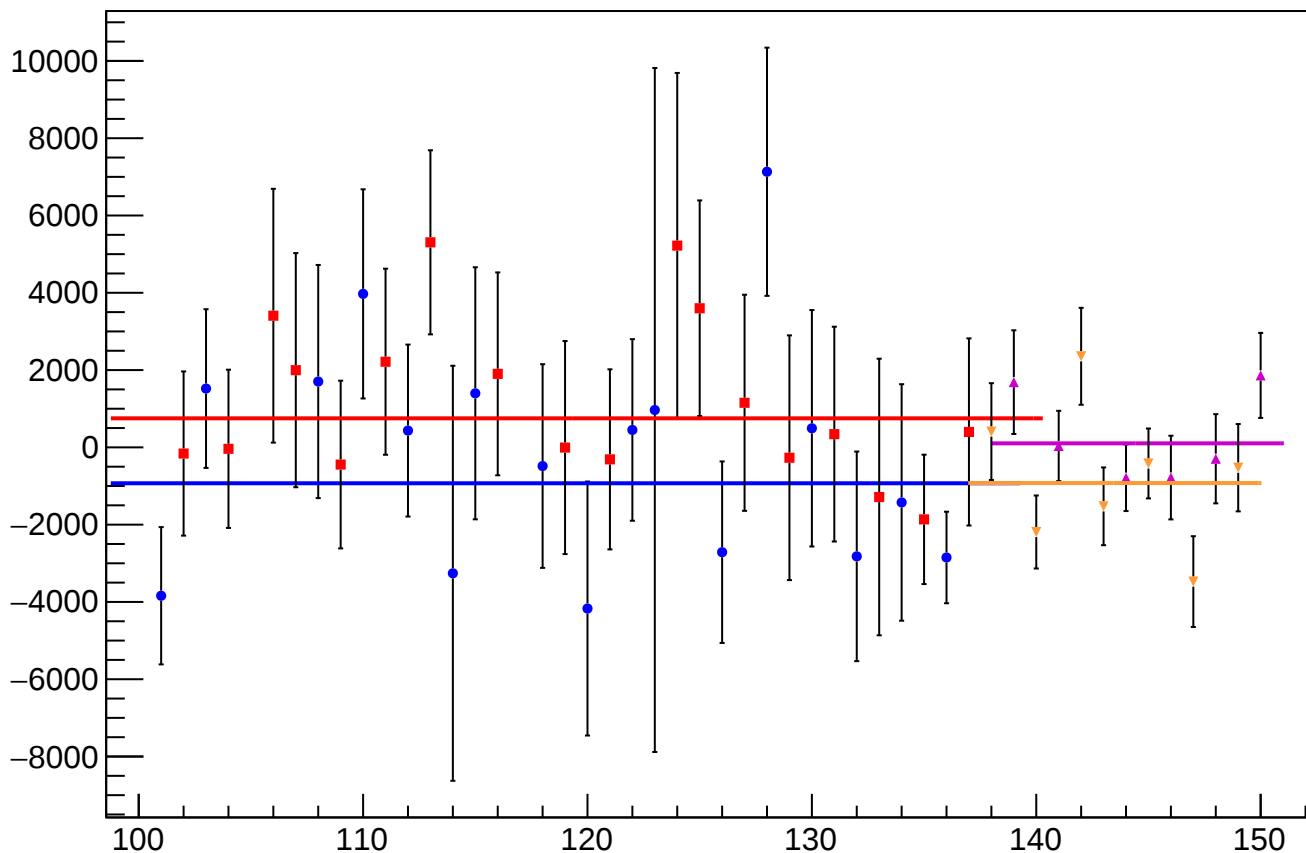
Right: 103.979 $\pm$ 0.020  $\chi^2$ /NDF: 676958.3/34

In: 100.773 $\pm$ 0.021  $\chi^2$ /NDF:338996.0/22

Out: 101.054 $\pm$ 0.021  $\chi^2$ /NDF:529294.9/24

All: 100.915 $\pm$ 0.015  $\chi^2$ /NDF: 868380.9/47

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -928.932+/-586.968  $\chi^2/\text{NDF}$ : 20.9/16

Left Out: -923.002+/-404.428  $\chi^2/\text{NDF}$ :15.3/6

Right Out: 751.262+/-594.960  $\chi^2/\text{NDF}$ : 10.9/17

Left In: 104.113+/-424.818  $\chi^2/\text{NDF}$ :5.8/5

Left: -434.685+/-292.917  $\chi^2/\text{NDF}$ : 24.2/12

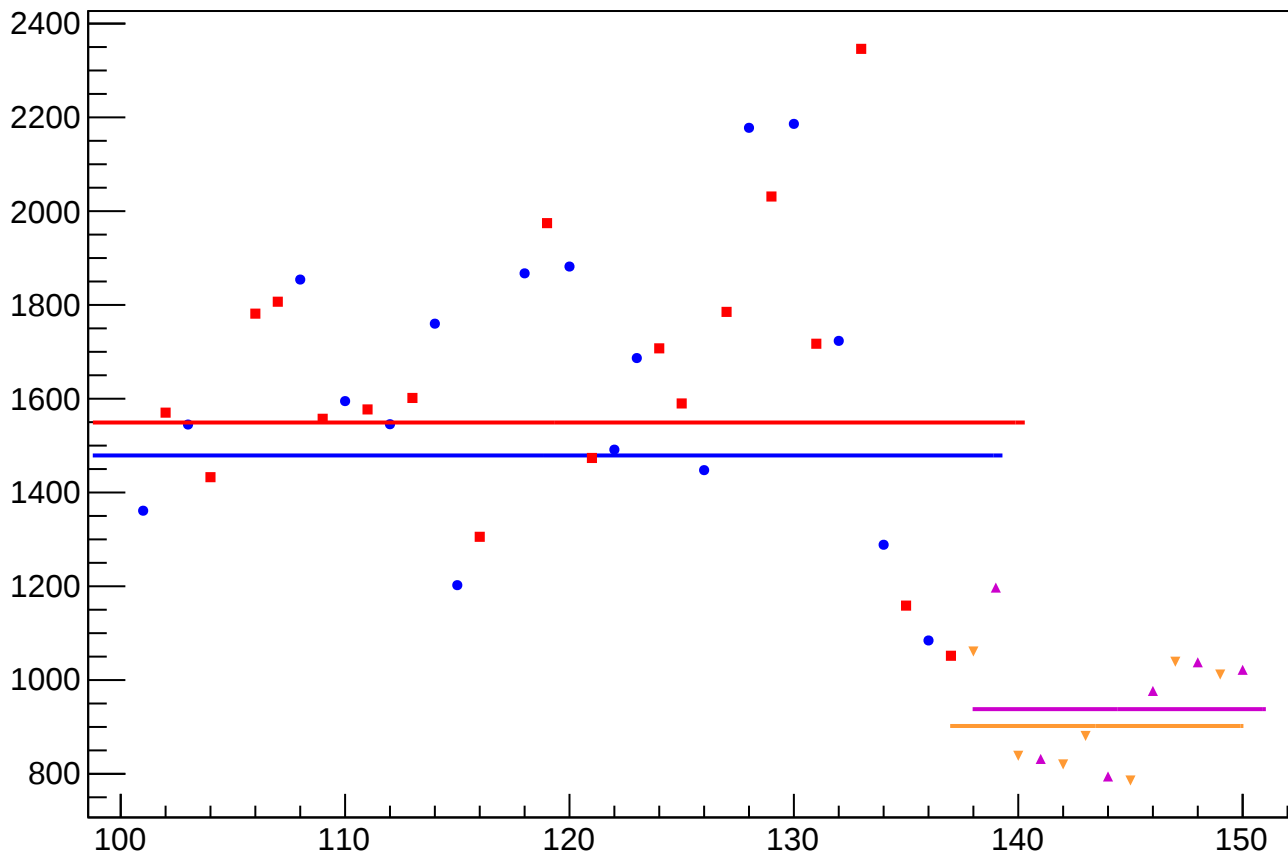
Right: -100.195+/-417.846  $\chi^2/\text{NDF}$ : 35.8/34

In: -250.998+/-344.141  $\chi^2/\text{NDF}$ :28.7/22

Out: -393.871+/-334.470  $\chi^2/\text{NDF}$ :31.6/24

All: -324.470+/-239.852  $\chi^2/\text{NDF}$ : 60.4/47

asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1478.991+/-0.415  $\chi^2/\text{NDF}$ : 589620.8/16

Left Out: 902.059+/-0.286  $\chi^2/\text{NDF}$ : 129821.5/6

Right Out: 1549.266+/-0.421  $\chi^2/\text{NDF}$ : 462557.8/17

Left In: 937.985+/-0.300  $\chi^2/\text{NDF}$ : 186654.5/5

Left: 919.140+/-0.207  $\chi^2/\text{NDF}$ : 323979.2/12

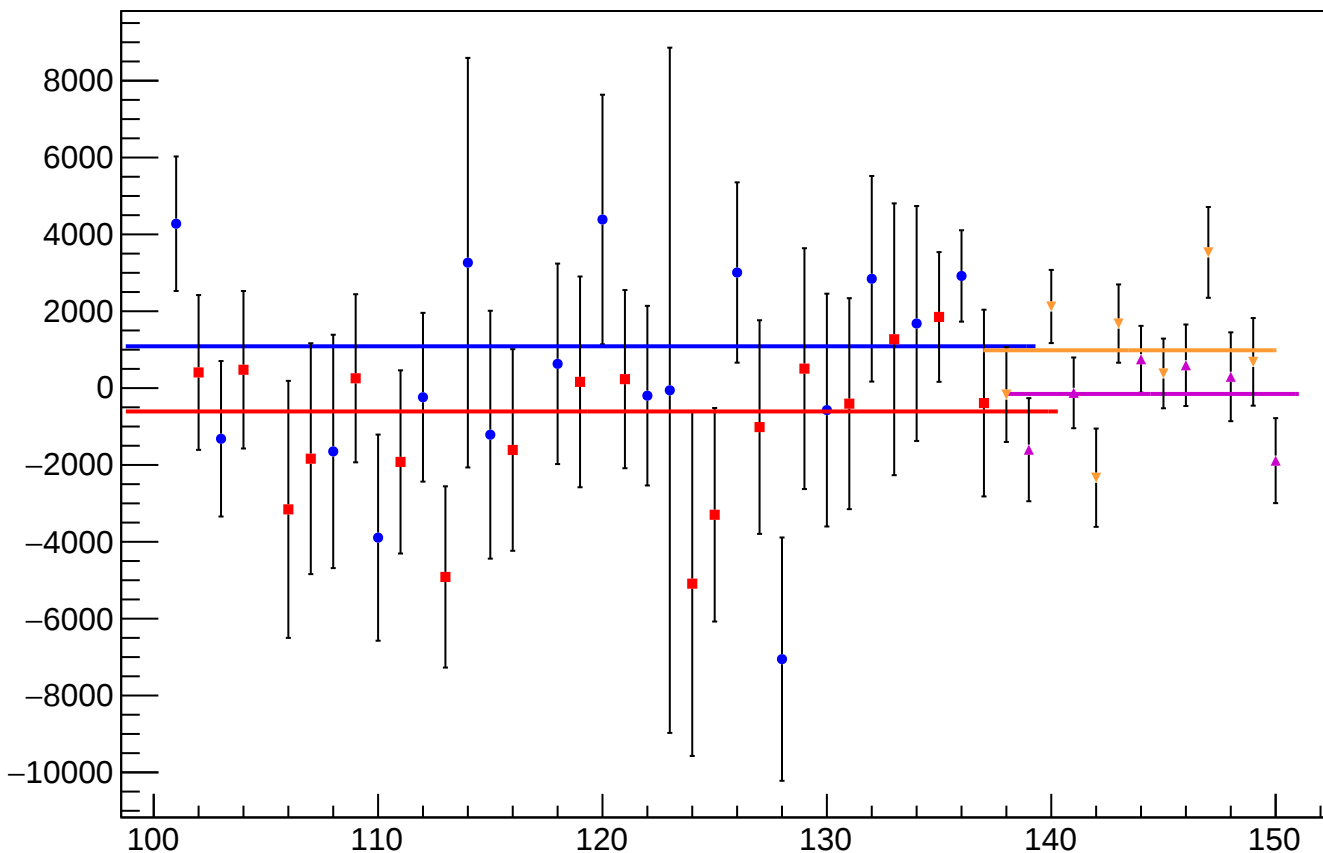
Right: 1513.653+/-0.295  $\chi^2/\text{NDF}$ : 1066318.9/34

In: 1123.957+/-0.243  $\chi^2/\text{NDF}$ : 1891270.3/22

Out: 1106.601+/-0.237  $\chi^2/\text{NDF}$ : 2211103.3/24

All: 1115.032+/-0.170  $\chi^2/\text{NDF}$ : 4104989.6/47

asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 1087.987+/-583.326  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: 984.179+/-406.949  $\chi^2/\text{NDF}$ : 14.7/6

Right Out: -607.930+/-591.550  $\chi^2/\text{NDF}$ : 9.9/17

Left In: -151.681+/-425.783  $\chi^2/\text{NDF}$ : 5.4/5

Left: 441.926+/-294.189  $\chi^2/\text{NDF}$ : 23.7/12

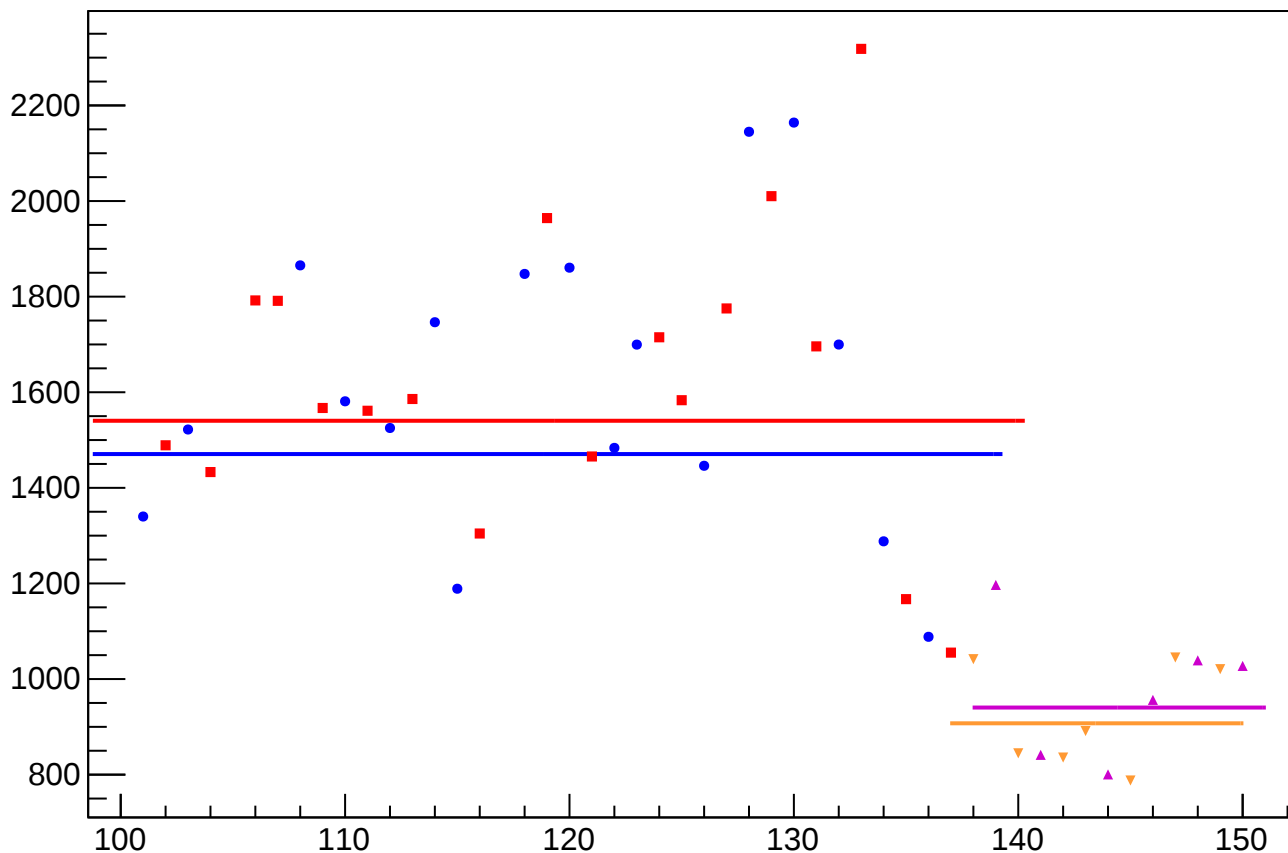
Right: 251.899+/-415.351  $\chi^2/\text{NDF}$ : 35.9/34

In: 279.219+/-343.912  $\chi^2/\text{NDF}$ : 30.1/22

Out: 472.744+/-335.275  $\chi^2/\text{NDF}$ : 29.5/24

All: 378.442+/-240.070  $\chi^2/\text{NDF}$ : 59.8/47

asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 1470.683 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 567728.4/16

Left Out: 907.402 $\pm$ 0.288  $\chi^2/\text{NDF}$ : 120879.6/6

Right Out: 1540.341 $\pm$ 0.418  $\chi^2/\text{NDF}$ : 442804.3/17

Left In: 940.377 $\pm$ 0.301  $\chi^2/\text{NDF}$ : 175550.6/5

Left: 923.144 $\pm$ 0.208  $\chi^2/\text{NDF}$ : 302699.2/12

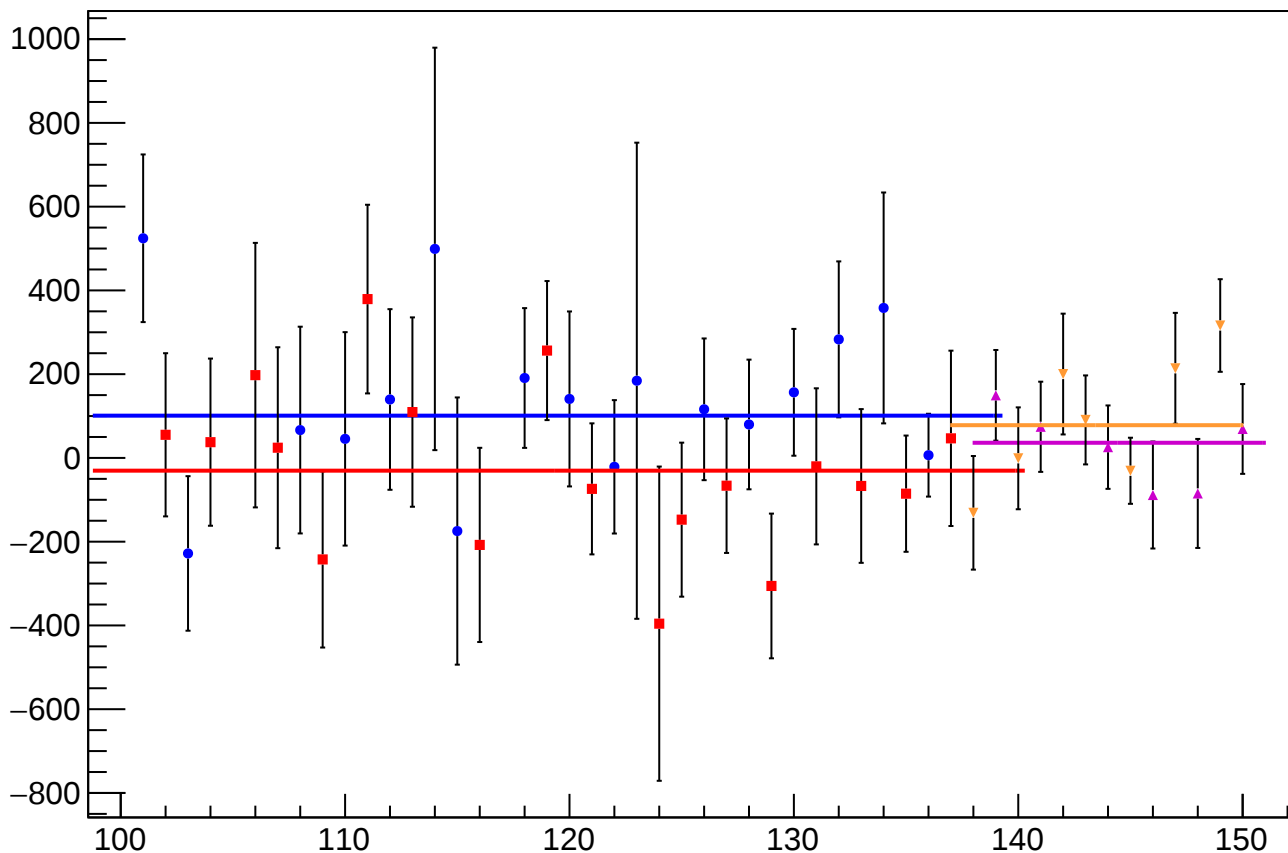
Right: 1505.024 $\pm$ 0.294  $\chi^2/\text{NDF}$ : 1024593.2/34

In: 1124.708 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 1821673.6/22

Out: 1110.722 $\pm$ 0.237  $\chi^2/\text{NDF}$ : 2117831.0/24

All: 1117.537 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 3941200.4/47

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In:  $100.918 \pm 45.284$   $\chi^2/\text{NDF}: 13.0/16$

Left Out:  $78.165 \pm 42.334$   $\chi^2/\text{NDF}: 11.1/6$

Right Out:  $-30.411 \pm 45.710$   $\chi^2/\text{NDF}: 13.5/17$

Left In:  $36.180 \pm 45.655$   $\chi^2/\text{NDF}: 3.1/5$

Left:  $58.755 \pm 31.043$   $\chi^2/\text{NDF}: 14.7/12$

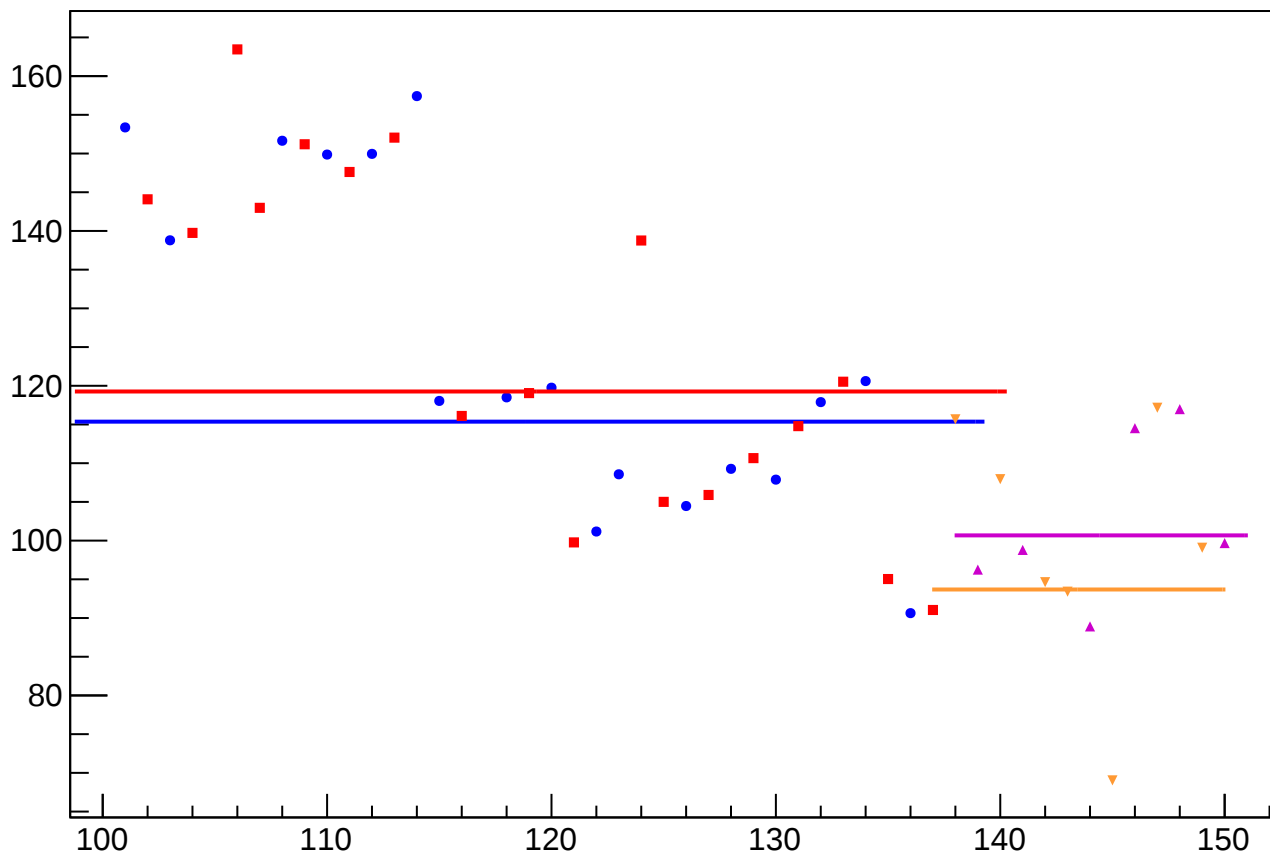
Right:  $35.869 \pm 32.170$   $\chi^2/\text{NDF}: 30.7/34$

In:  $68.814 \pm 32.151$   $\chi^2/\text{NDF}: 17.2/22$

Out:  $28.034 \pm 31.060$   $\chi^2/\text{NDF}: 27.7/24$

All:  $47.720 \pm 22.338$   $\chi^2/\text{NDF}: 45.7/47$

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: 93.686 $\pm$ 0.030  $\chi^2$ /NDF:342951.3/6

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

Left In: 100.675 $\pm$ 0.032  $\chi^2$ /NDF:86887.8/5

Left: 96.917 $\pm$ 0.022  $\chi^2$ /NDF: 455041.3/12

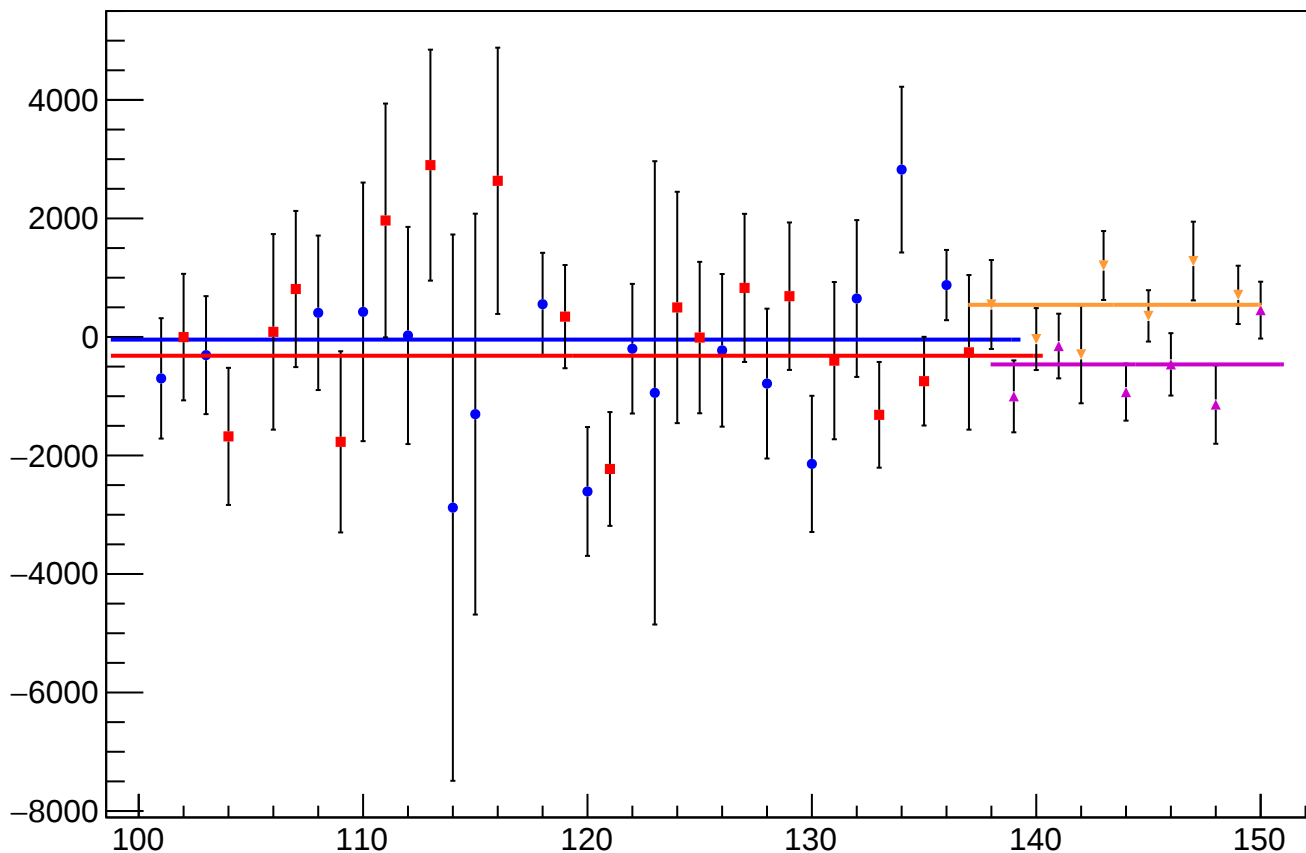
Right: 117.296 $\pm$ 0.023  $\chi^2$ /NDF: 817014.4/34

In: 108.081 $\pm$ 0.023  $\chi^2$ /NDF:602643.0/22

Out: 105.495 $\pm$ 0.022  $\chi^2$ /NDF:1078331.4/24

All: 106.743 $\pm$ 0.016  $\chi^2$ /NDF: 1687665.2/47

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:  $542.462 \pm 215.253$   $\chi^2/\text{NDF}: 5.1/6$

Right Out:  $-316.976 \pm 283.113$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $-463.458 \pm 220.245$   $\chi^2/\text{NDF}: 6.7/5$

Left:  $51.031 \pm 153.941$   $\chi^2/\text{NDF}: 22.5/12$

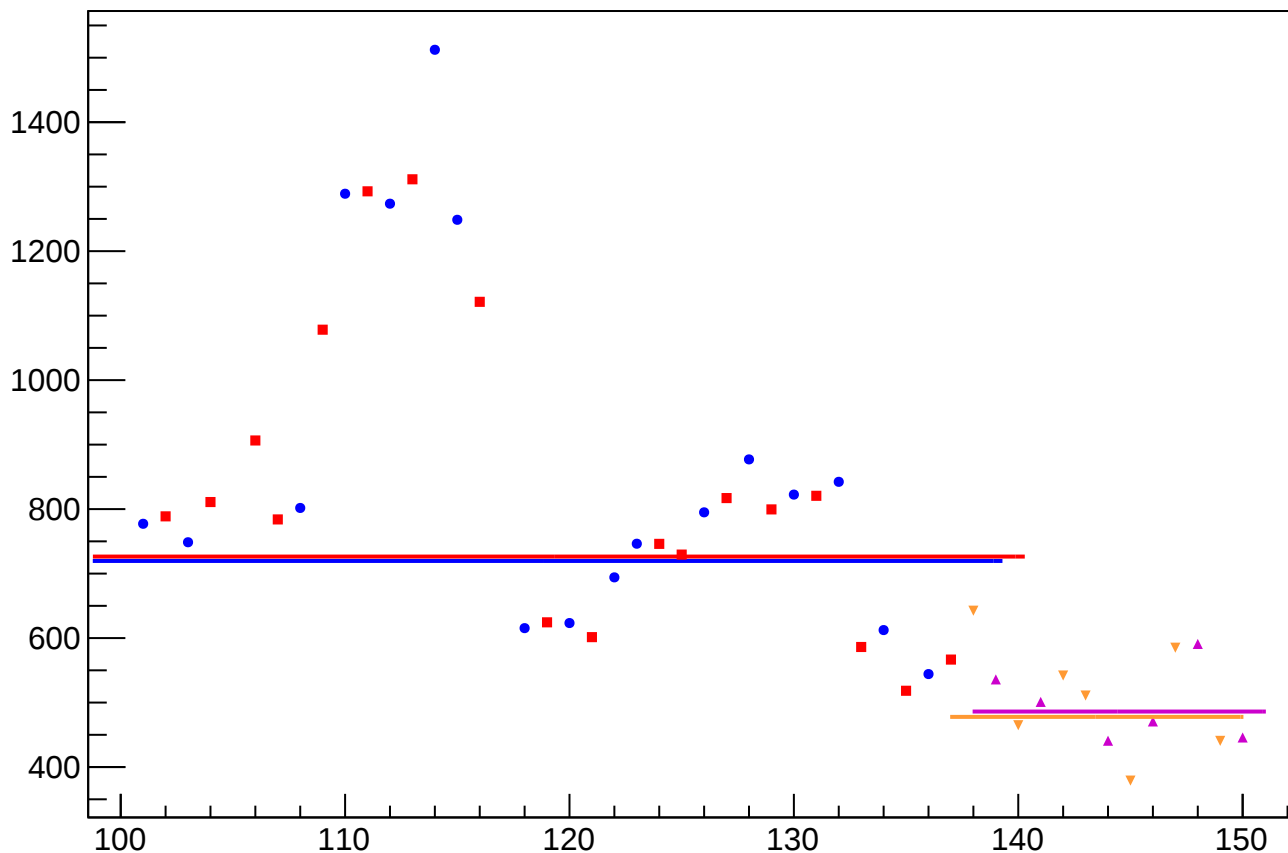
Right:  $-182.282 \pm 201.303$   $\chi^2/\text{NDF}: 35.1/34$

In:  $-307.708 \pm 174.564$   $\chi^2/\text{NDF}: 25.9/22$

Out:  $227.638 \pm 171.351$   $\chi^2/\text{NDF}: 27.7/24$

All:  $-35.063 \pm 122.283$   $\chi^2/\text{NDF}: 58.5/47$

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 719.606+/-0.202  $\chi^2/\text{NDF}$ : 746949.1/16

Left Out: 477.797+/-0.152  $\chi^2/\text{NDF}$ : 283523.8/6

Right Out: 726.397+/-0.200  $\chi^2/\text{NDF}$ : 880989.6/17

Left In: 486.073+/-0.156  $\chi^2/\text{NDF}$ : 98543.6/5

Left: 481.840+/-0.109  $\chi^2/\text{NDF}$ : 383511.9/12

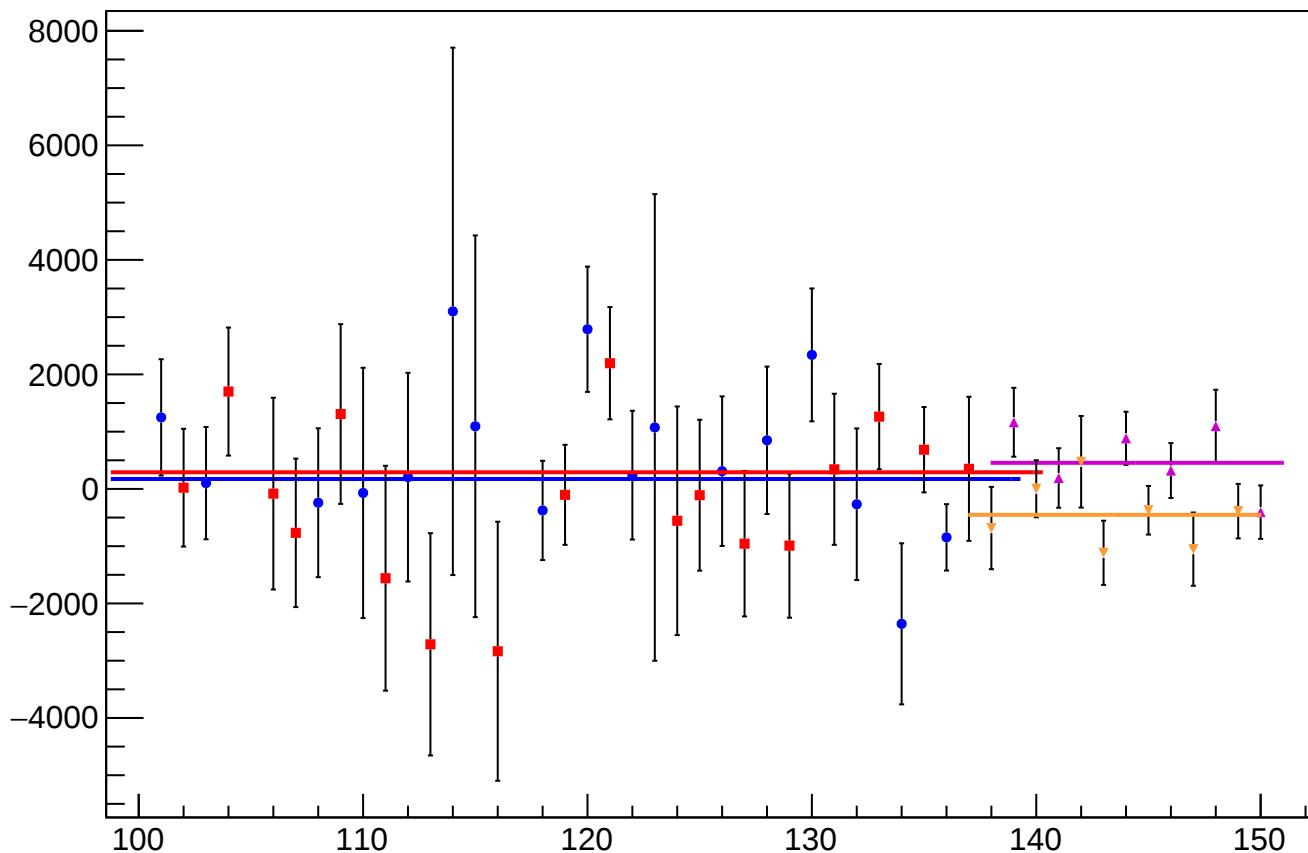
Right: 723.039+/-0.142  $\chi^2/\text{NDF}$ : 1628507.7/34

In: 572.901+/-0.123  $\chi^2/\text{NDF}$ : 1681532.1/22

Out: 568.862+/-0.121  $\chi^2/\text{NDF}$ : 2141725.2/24

All: 570.844+/-0.086  $\chi^2/\text{NDF}$ : 3823802.5/47

# asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 173.182 $\pm$ 285.672  $\chi^2$ /NDF: 18.1/16

Left Out: -452.643 $\pm$ 208.004  $\chi^2$ /NDF:4.6/6

Right Out: 290.799 $\pm$ 283.545  $\chi^2$ /NDF: 15.6/17

Left In: 456.105 $\pm$ 210.707  $\chi^2$ /NDF:7.0/5

Left: -4.133 $\pm$ 148.027  $\chi^2$ /NDF: 21.0/12

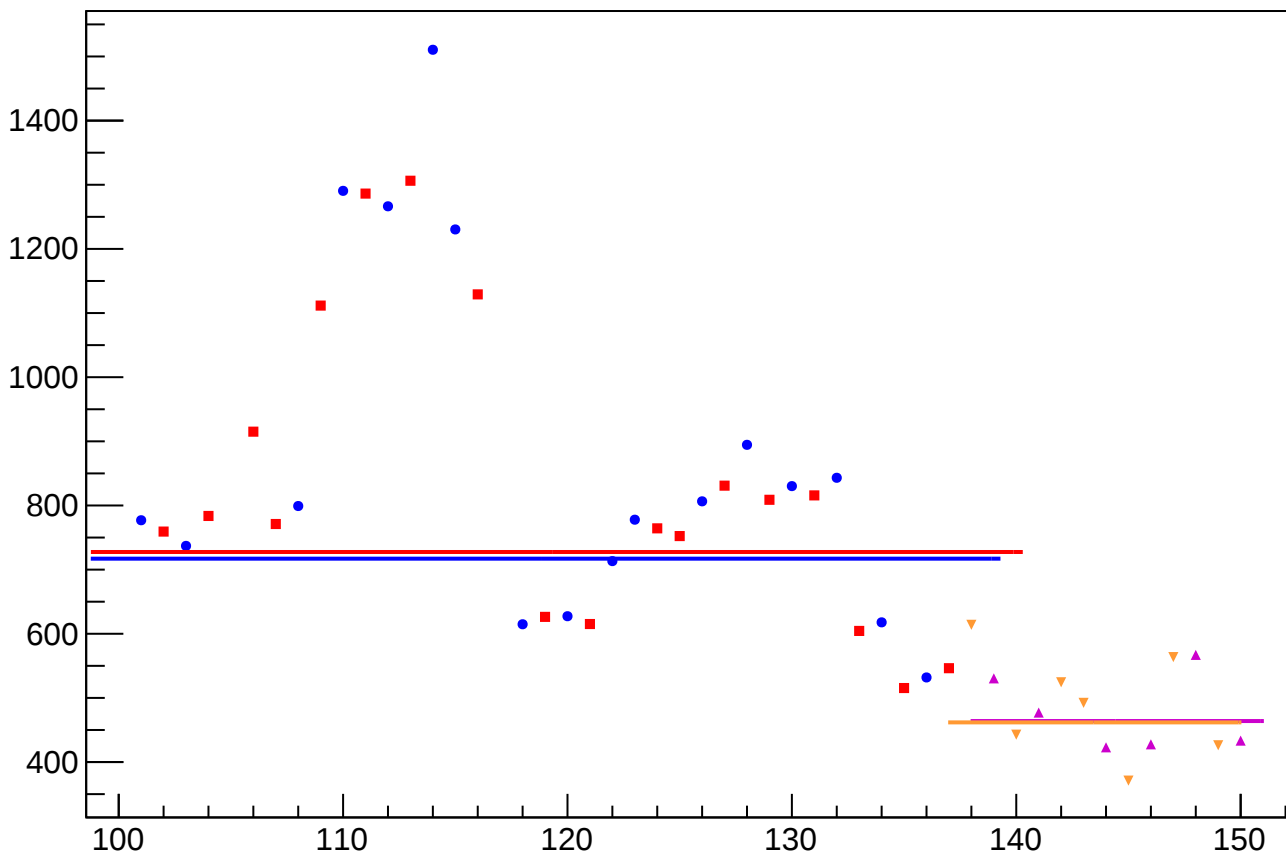
Right: 232.430 $\pm$ 201.245  $\chi^2$ /NDF: 33.8/34

In: 356.419 $\pm$ 169.571  $\chi^2$ /NDF:25.7/22

Out: -192.537 $\pm$ 167.716  $\chi^2$ /NDF:24.7/24

All: 78.922 $\pm$ 119.243  $\chi^2$ /NDF: 55.8/47

# asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 717.083+/-0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 461.842+/-0.147  $\chi^2/\text{NDF}$ : 263725.1/6

Right Out: 727.490+/-0.200  $\chi^2/\text{NDF}$ : 881036.5/17

Left In: 463.937+/-0.149  $\chi^2/\text{NDF}$ : 114011.7/5

Left: 462.876+/-0.105  $\chi^2/\text{NDF}$ : 377836.8/12

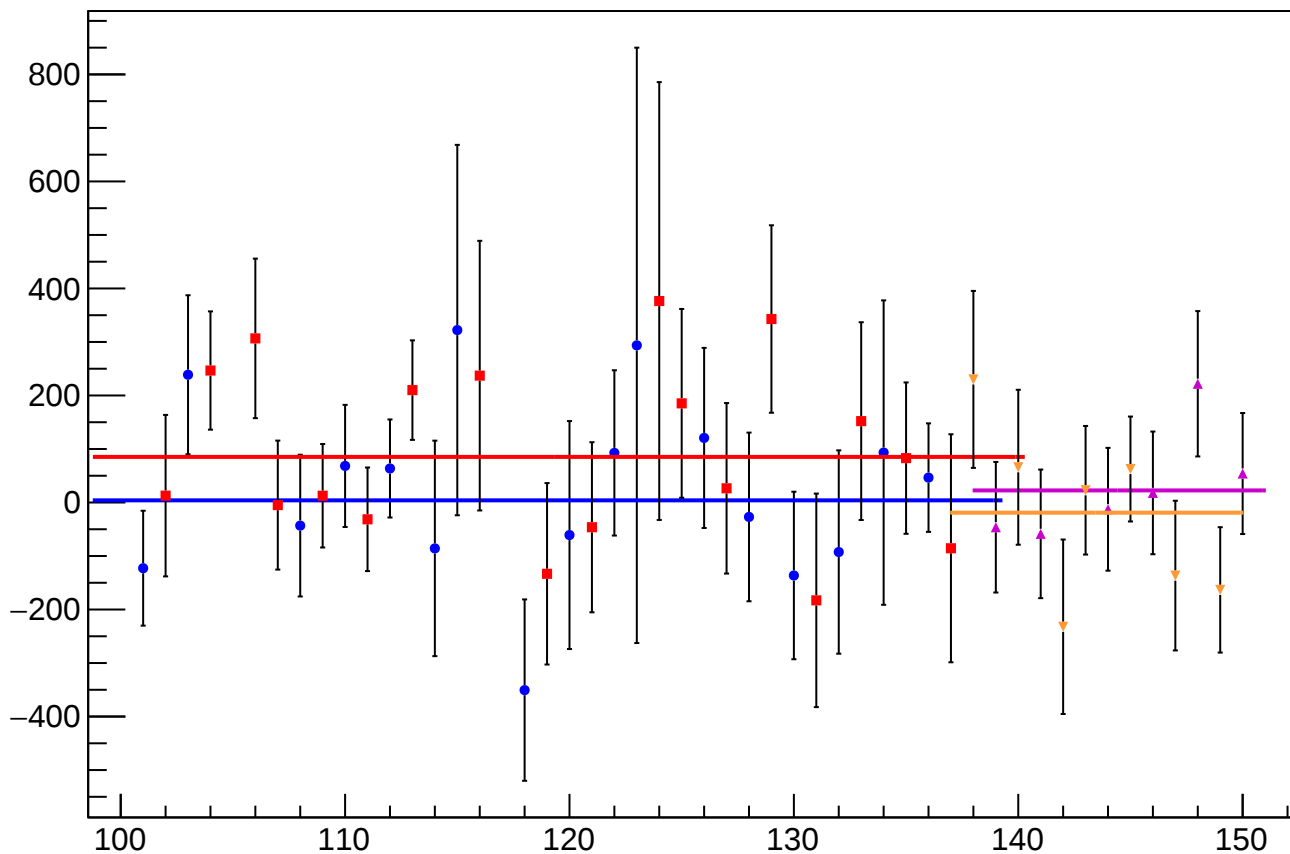
Right: 722.325+/-0.142  $\chi^2/\text{NDF}$ : 1664822.9/34

In: 553.131+/-0.120  $\chi^2/\text{NDF}$ : 1913602.7/22

Out: 554.783+/-0.119  $\chi^2/\text{NDF}$ : 2286057.4/24

All: 553.966+/-0.084  $\chi^2/\text{NDF}$ : 4199756.1/47

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:  $-19.014 \pm 48.842$   $\chi^2/\text{NDF}: 7.4/6$

Right Out:  $85.205 \pm 33.413$   $\chi^2/\text{NDF}: 17.4/17$

Left In:  $22.578 \pm 48.744$   $\chi^2/\text{NDF}: 3.1/5$

Left:  $1.824 \pm 34.502$   $\chi^2/\text{NDF}: 10.8/12$

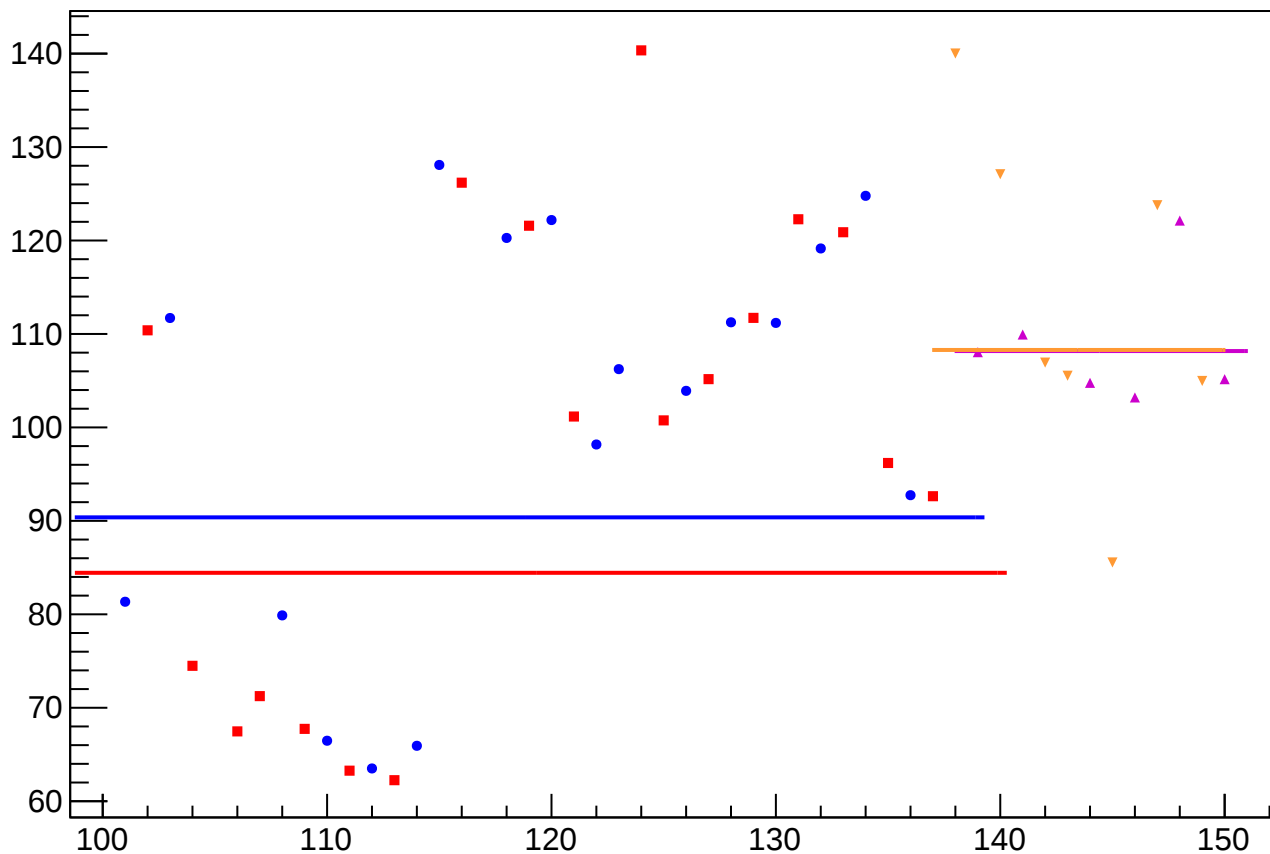
Right:  $47.574 \pm 24.474$   $\chi^2/\text{NDF}: 32.8/34$

In:  $10.553 \pm 28.932$   $\chi^2/\text{NDF}: 15.9/22$

Out:  $51.980 \pm 27.577$   $\chi^2/\text{NDF}: 27.8/24$

All:  $32.259 \pm 19.962$   $\chi^2/\text{NDF}: 44.8/47$

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 90.375 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 654139.7/16

Left Out: 108.288 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 242249.6/6

Right Out: 84.442 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 870835.6/17

Left In: 108.171 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 28491.5/5

Left: 108.229 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 270746.8/12

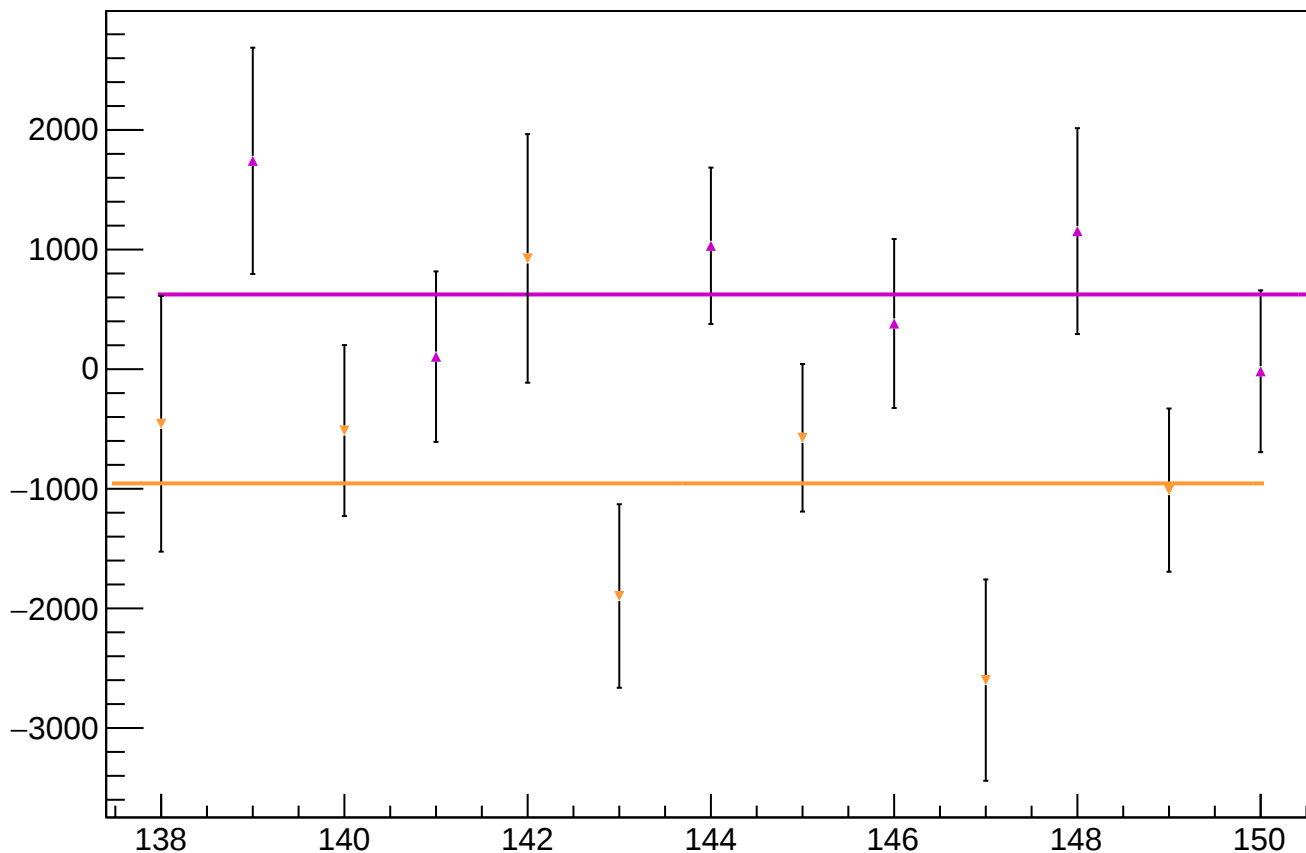
Right: 87.192 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 1554203.3/34

In: 96.645 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 855296.8/22

Out: 92.044 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 1437832.0/24

All: 94.234 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 2319629.6/47

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: -954.805+/-293.062  $\chi^2/\text{NDF}$ :9.6/6

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

Left In: 624.706+/-302.010  $\chi^2/\text{NDF}$ :3.7/5

Left: -188.795+/-210.319  $\chi^2/\text{NDF}$ : 27.4/12

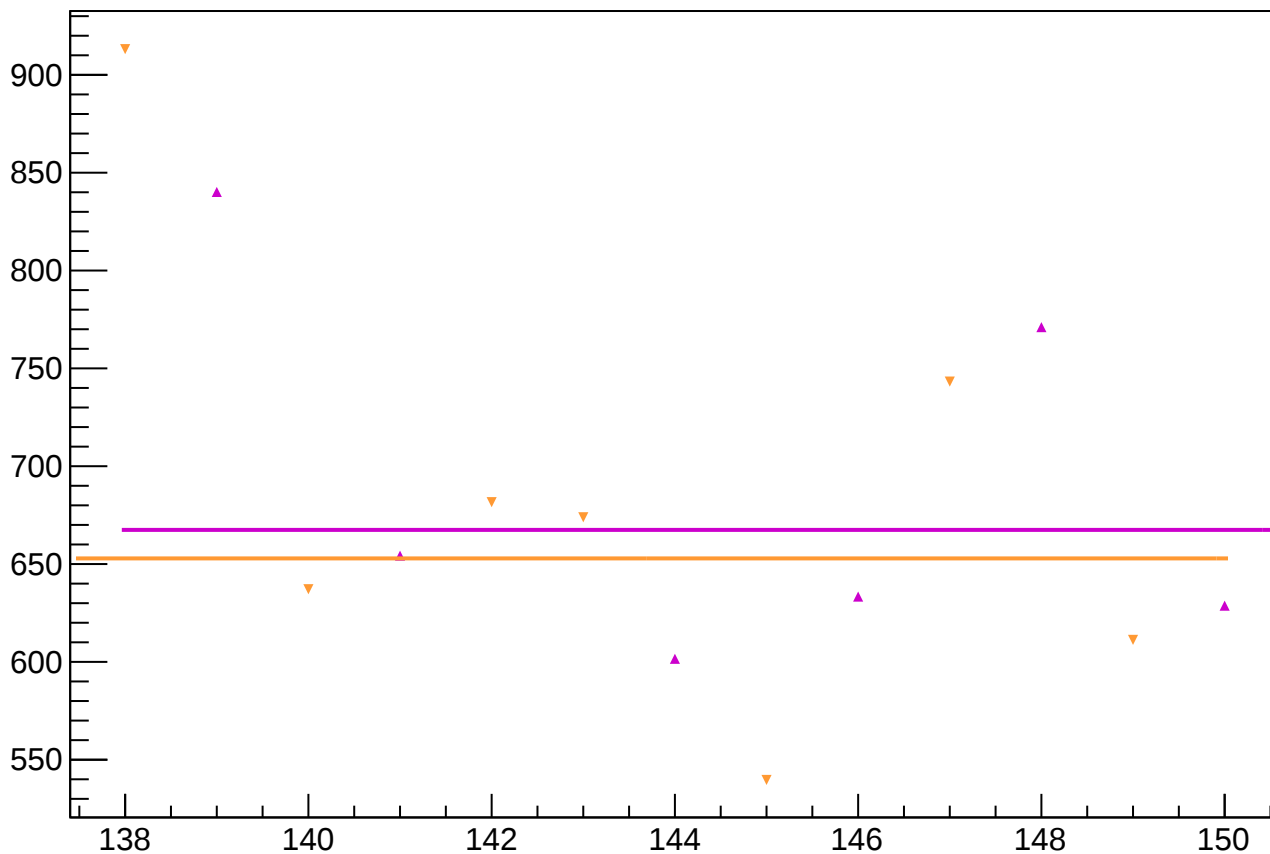
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 624.706+/-302.010  $\chi^2/\text{NDF}$ :3.7/5

Out: -954.805+/-293.062  $\chi^2/\text{NDF}$ :9.6/6

All: -188.795+/-210.319  $\chi^2/\text{NDF}$ : 27.4/12

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: 652.881+/-0.207  $\chi^2/\text{NDF}$ :220429.5/6

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

Left In: 667.456+/-0.214  $\chi^2/\text{NDF}$ :127834.7/5

Left: 659.950+/-0.149  $\chi^2/\text{NDF}$ : 350663.2/12

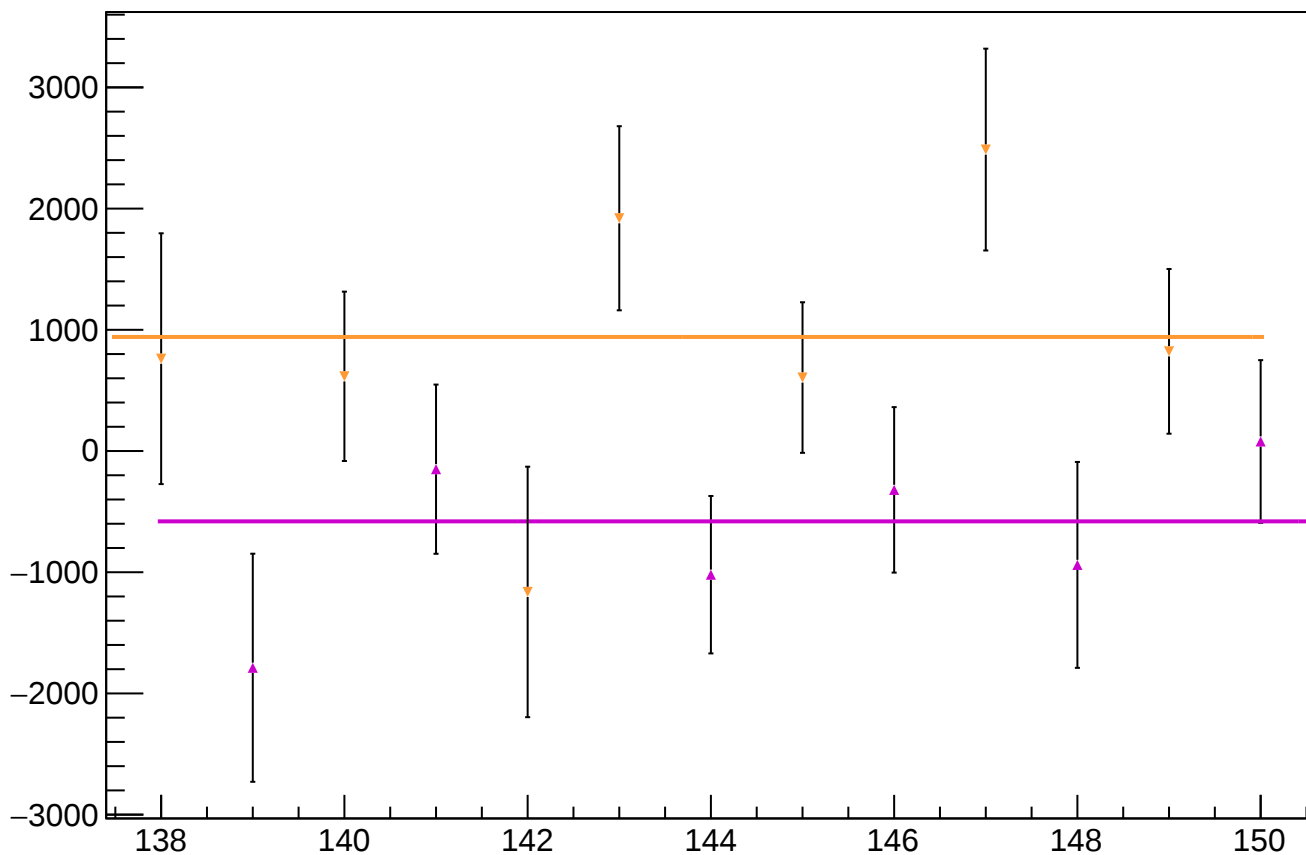
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 667.456+/-0.214  $\chi^2/\text{NDF}$ :127834.7/5

Out: 652.881+/-0.207  $\chi^2/\text{NDF}$ :220429.5/6

All: 659.950+/-0.149  $\chi^2/\text{NDF}$ : 350663.2/12

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 941.029+/-290.454  $\chi^2/\text{NDF}$ :9.8/6

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

Left In: -580.301+/-297.393  $\chi^2/\text{NDF}$ :3.8/5

Left: 198.322+/-207.792  $\chi^2/\text{NDF}$ : 27.0/12

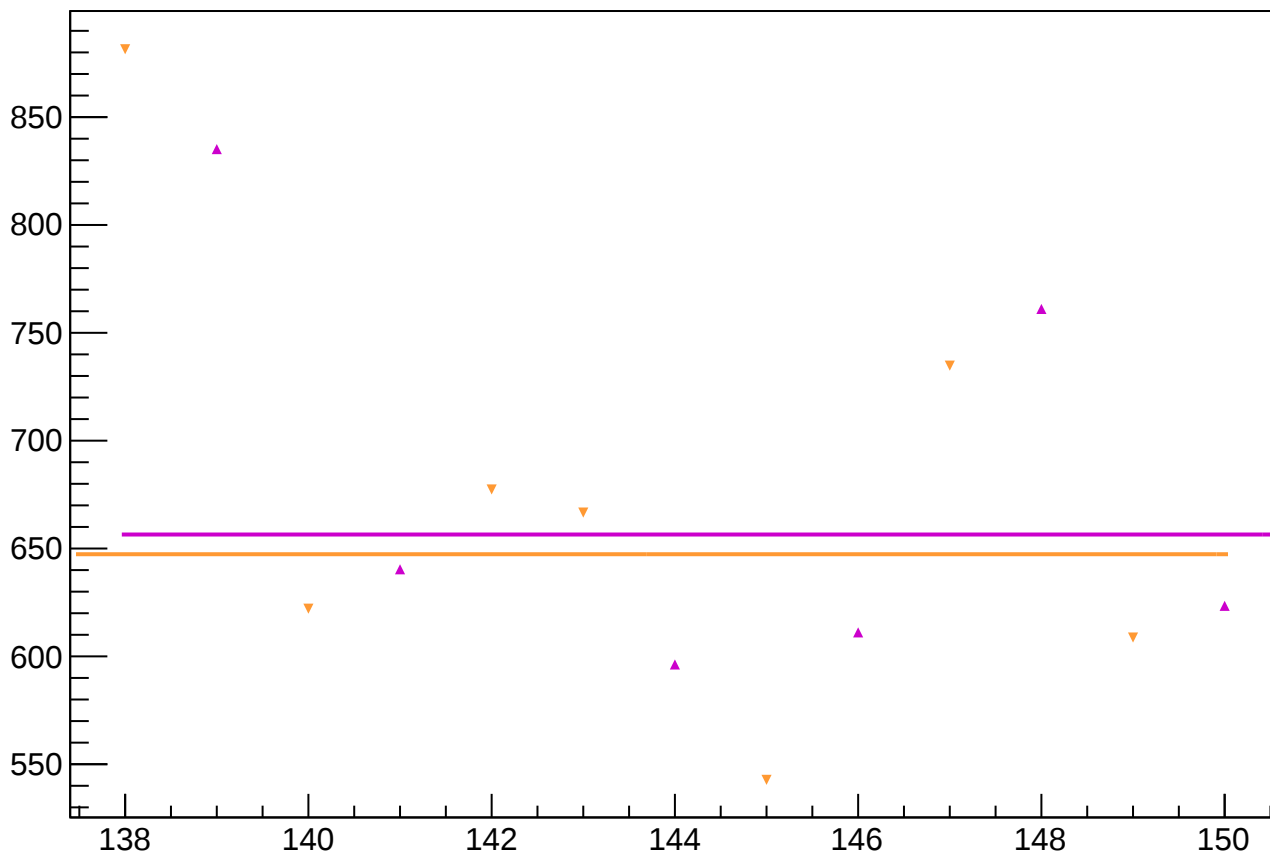
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -580.301+/-297.393  $\chi^2/\text{NDF}$ :3.8/5

Out: 941.029+/-290.454  $\chi^2/\text{NDF}$ :9.8/6

All: 198.322+/-207.792  $\chi^2/\text{NDF}$ : 27.0/12

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 647.355+/-0.205  $\chi^2/\text{NDF}$ :193251.8/6

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

Left In: 656.494+/-0.210  $\chi^2/\text{NDF}$ :134413.8/5

Left: 651.817+/-0.147  $\chi^2/\text{NDF}$ : 328632.2/12

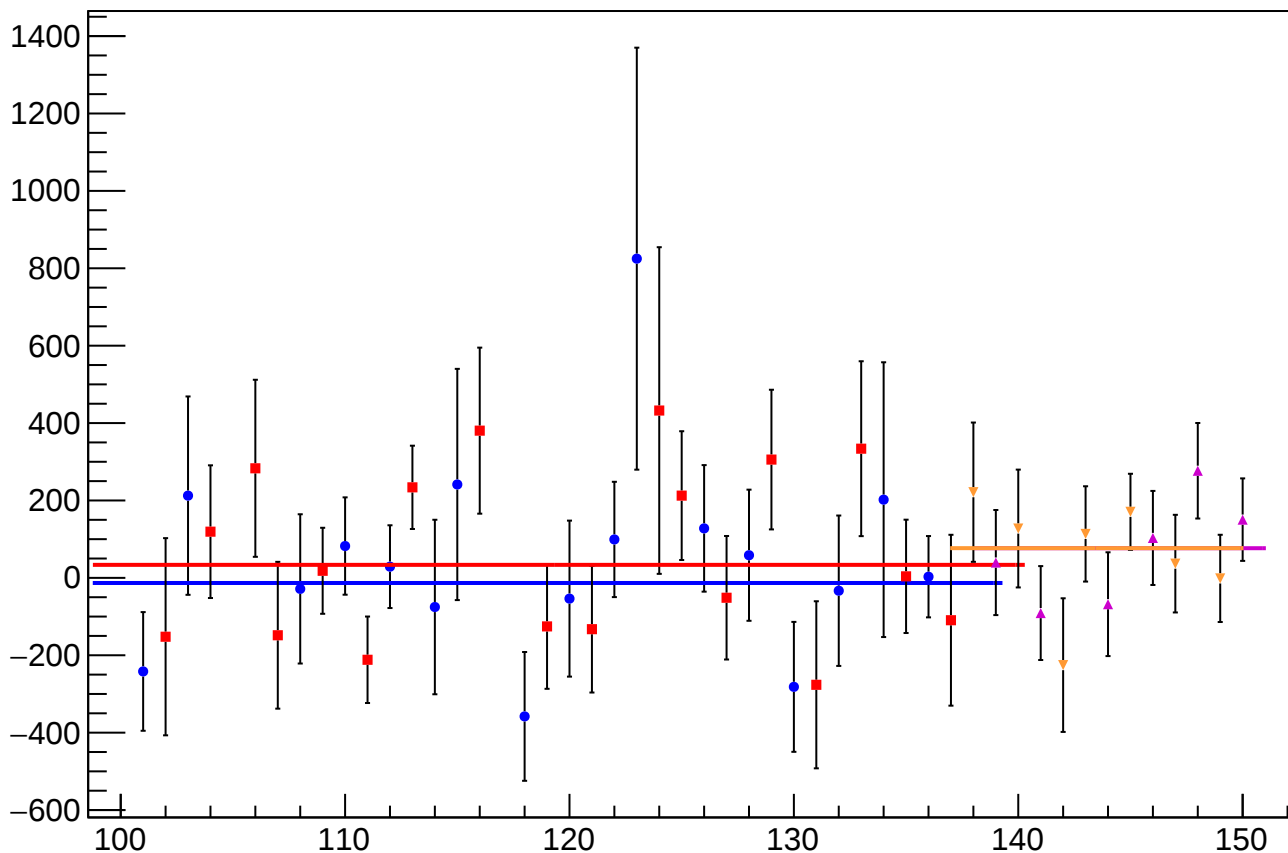
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 656.494+/-0.210  $\chi^2/\text{NDF}$ :134413.8/5

Out: 647.355+/-0.205  $\chi^2/\text{NDF}$ :193251.8/6

All: 651.817+/-0.147  $\chi^2/\text{NDF}$ : 328632.2/12

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:  $76.792 \pm 48.876$   $\chi^2/\text{NDF}$ : 5.4/6

Right Out:  $33.637 \pm 38.891$   $\chi^2/\text{NDF}$ : 24.7/17

Left In:  $76.638 \pm 50.051$   $\chi^2/\text{NDF}$ : 6.3/5

Left:  $76.717 \pm 34.968$   $\chi^2/\text{NDF}$ : 11.7/12

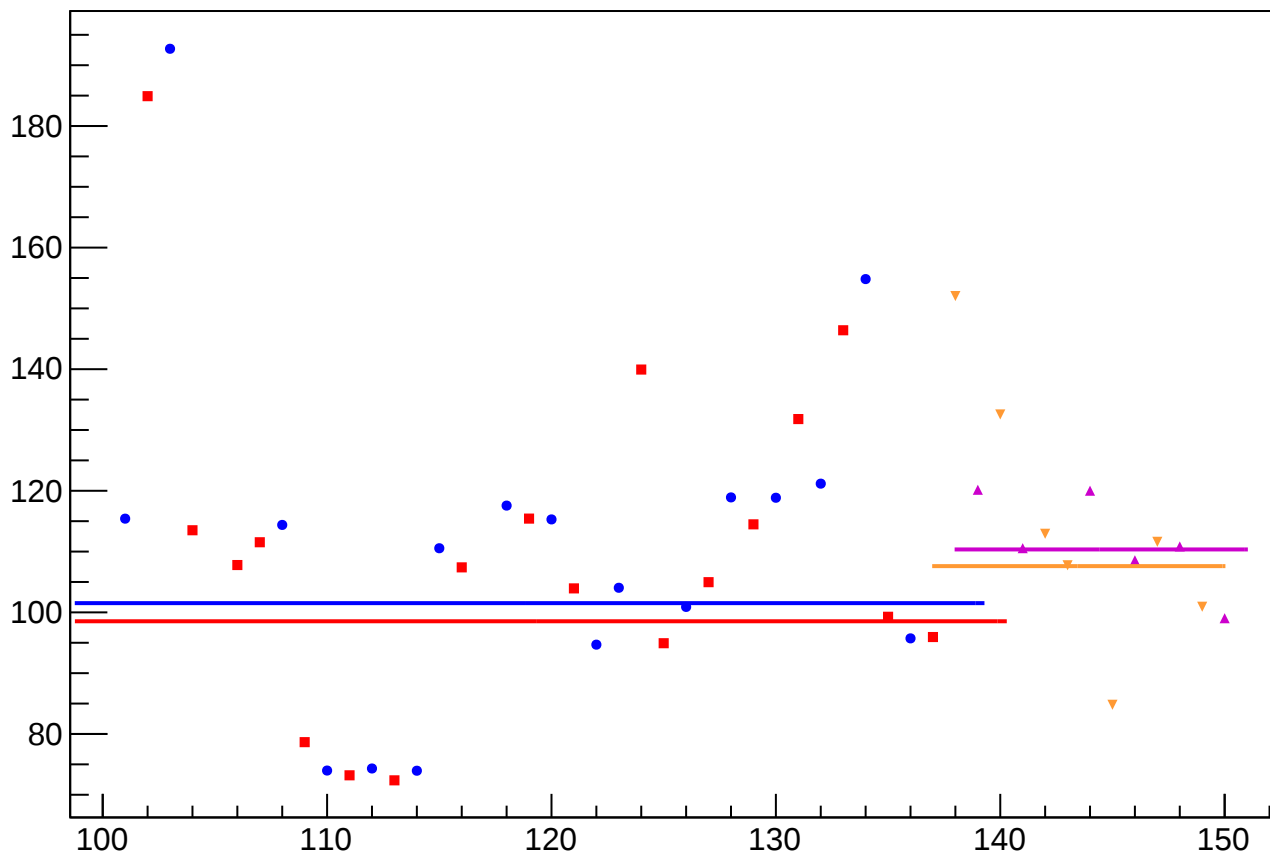
Right:  $11.191 \pm 28.070$   $\chi^2/\text{NDF}$ : 41.1/34

In:  $22.396 \pm 31.509$   $\chi^2/\text{NDF}$ : 23.9/22

Out:  $50.368 \pm 30.432$   $\chi^2/\text{NDF}$ : 30.6/24

All:  $36.868 \pm 21.890$   $\chi^2/\text{NDF}$ : 54.9/47

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: 107.607 $\pm$ 0.035  $\chi^2$ /NDF: 294226.4/6

Right Out: 98.537 $\pm$ 0.028  $\chi^2$ /NDF: 746979.4/17

Left In: 110.351 $\pm$ 0.035  $\chi^2$ /NDF: 43843.9/5

Left: 108.946 $\pm$ 0.025  $\chi^2$ /NDF: 341148.2/12

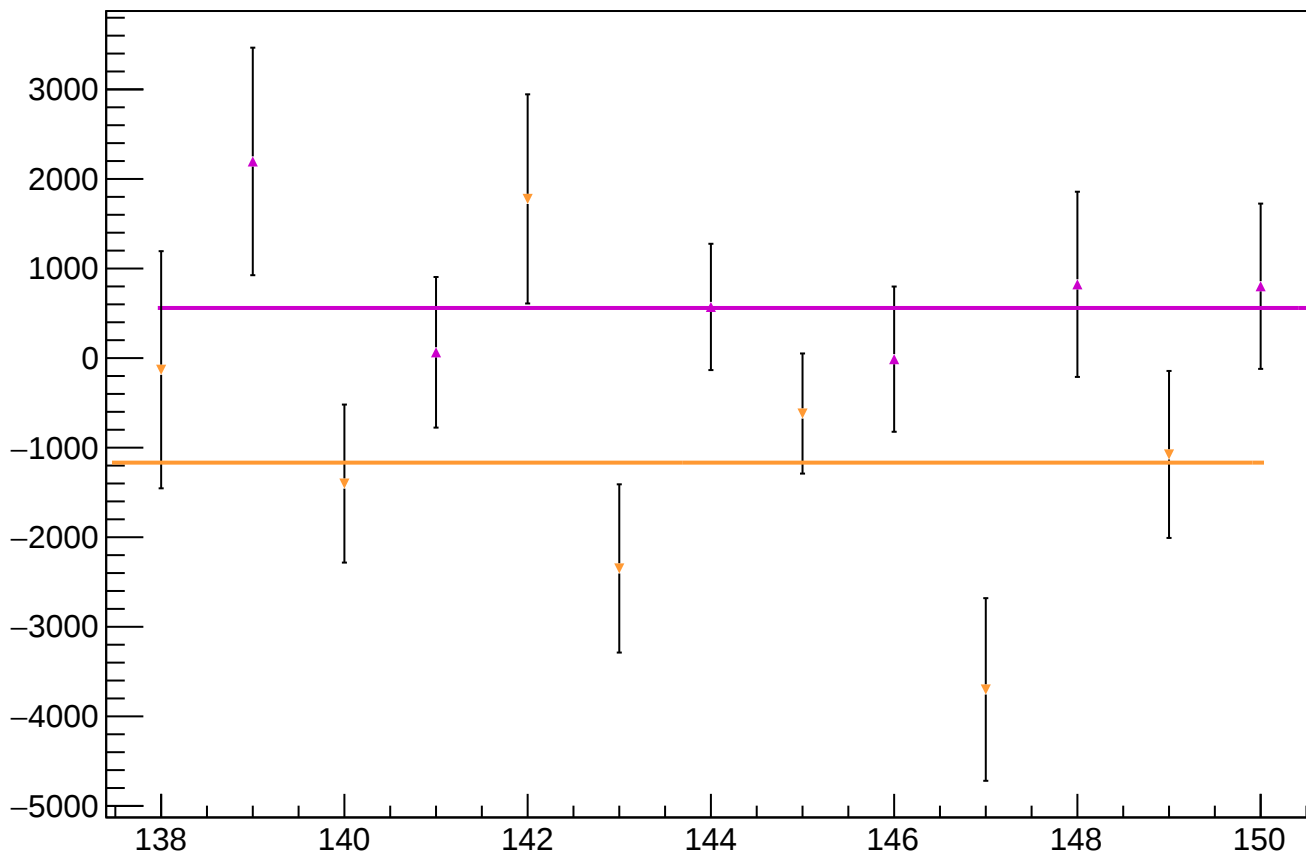
Right: 99.965 $\pm$ 0.020  $\chi^2$ /NDF: 1434328.3/34

In: 105.019 $\pm$ 0.022  $\chi^2$ /NDF: 763152.7/22

Out: 102.053 $\pm$ 0.022  $\chi^2$ /NDF: 1083379.7/24

All: 103.485 $\pm$ 0.015  $\chi^2$ /NDF: 1855703.9/47

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: -1167.145+/-352.255  $\chi^2/\text{NDF}$ :15.5/6

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

Left In: 559.570+/-360.896  $\chi^2/\text{NDF}$ :2.6/5

Left: -324.706+/-252.081  $\chi^2/\text{NDF}$ : 29.8/12

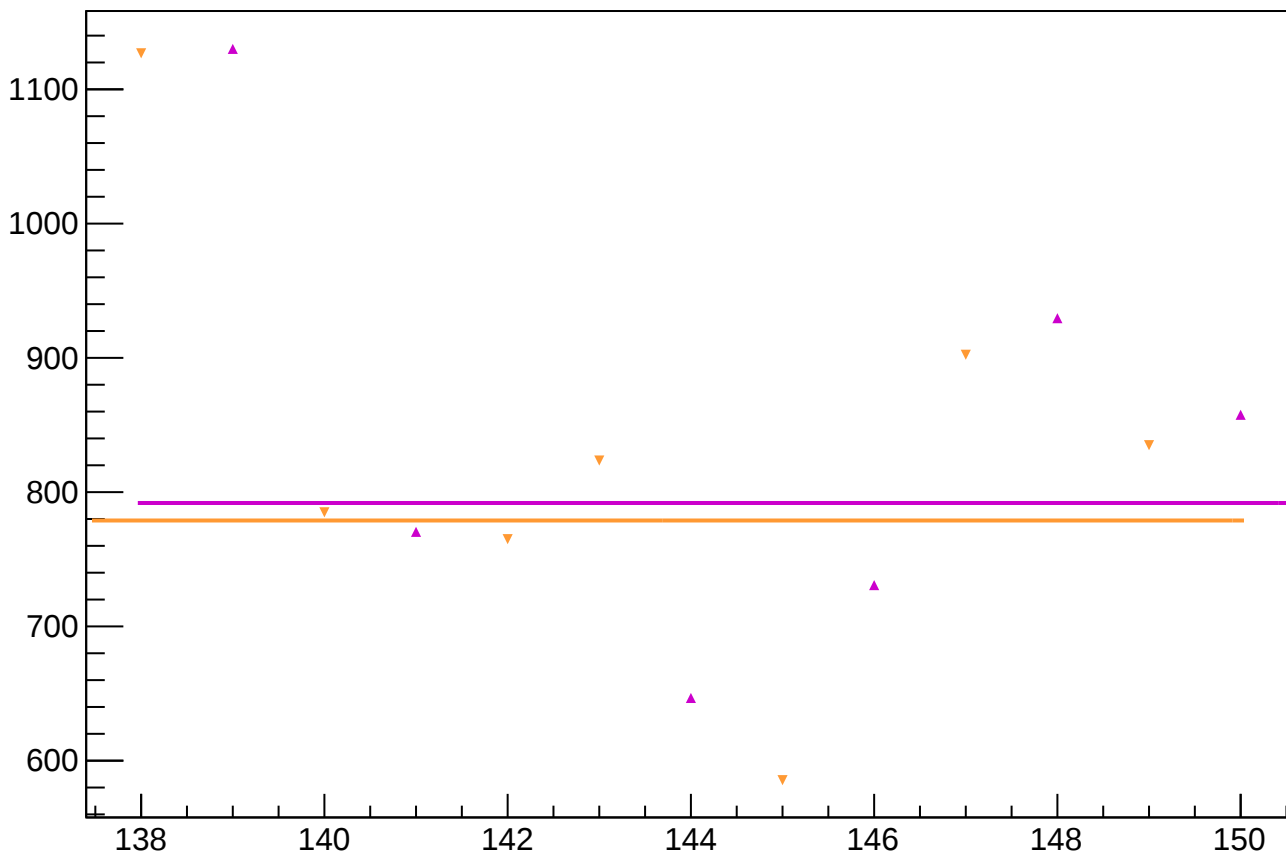
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 559.570+/-360.896  $\chi^2/\text{NDF}$ :2.6/5

Out: -1167.145+/-352.255  $\chi^2/\text{NDF}$ :15.5/6

All: -324.706+/-252.081  $\chi^2/\text{NDF}$ : 29.8/12

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: 778.882+/-0.249  $\chi^2/\text{NDF}$ :345963.4/6

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

Left In: 791.918+/-0.255  $\chi^2/\text{NDF}$ :284905.6/5

Left: 785.242+/-0.178  $\chi^2/\text{NDF}$ : 632205.3/12

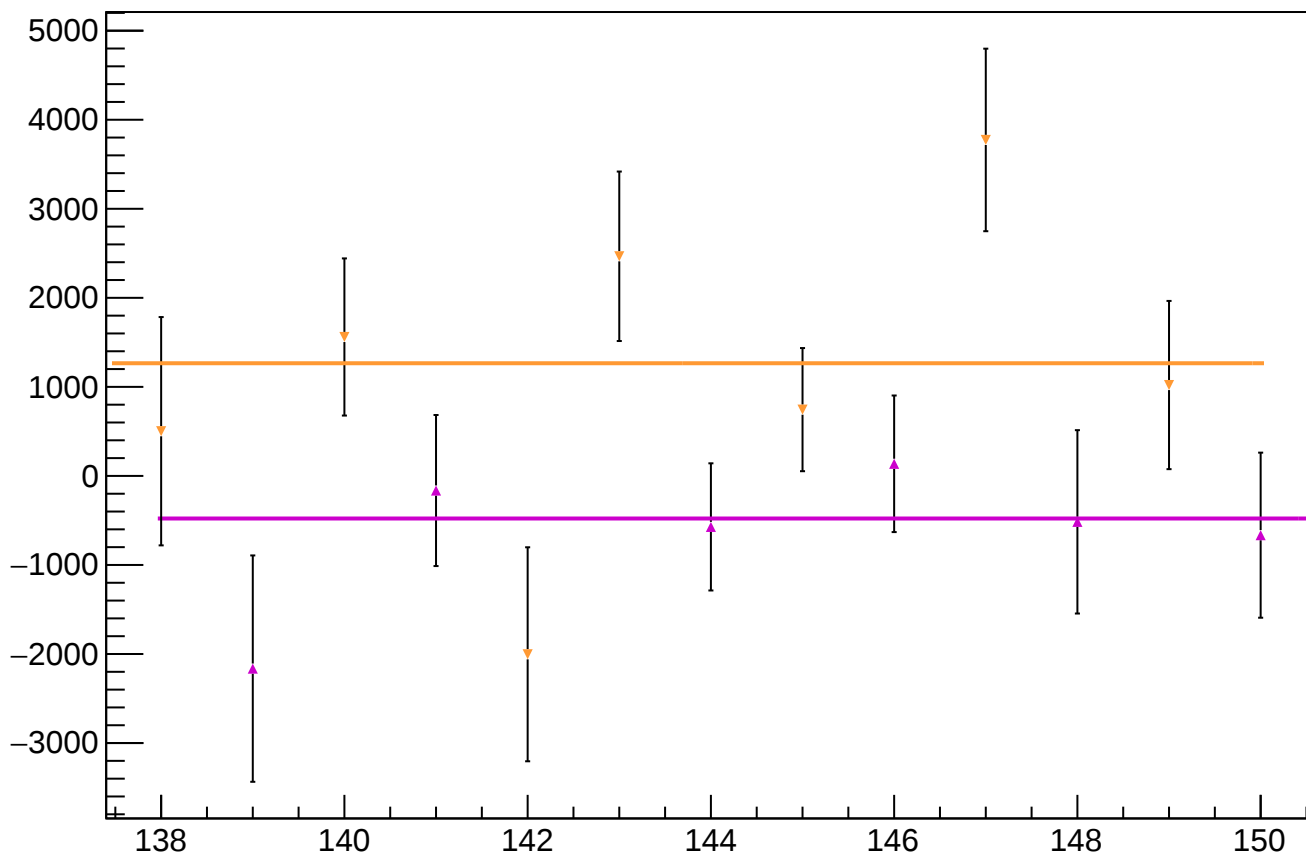
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 791.918+/-0.255  $\chi^2/\text{NDF}$ :284905.6/5

Out: 778.882+/-0.249  $\chi^2/\text{NDF}$ :345963.4/6

All: 785.242+/-0.178  $\chi^2/\text{NDF}$ : 632205.3/12

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1265.465+/-356.838  $\chi^2/\text{NDF}$ :16.1/6

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

Left In: -478.279+/-358.576  $\chi^2/\text{NDF}$ :2.6/5

Left: 397.827+/-252.935  $\chi^2/\text{NDF}$ : 30.6/12

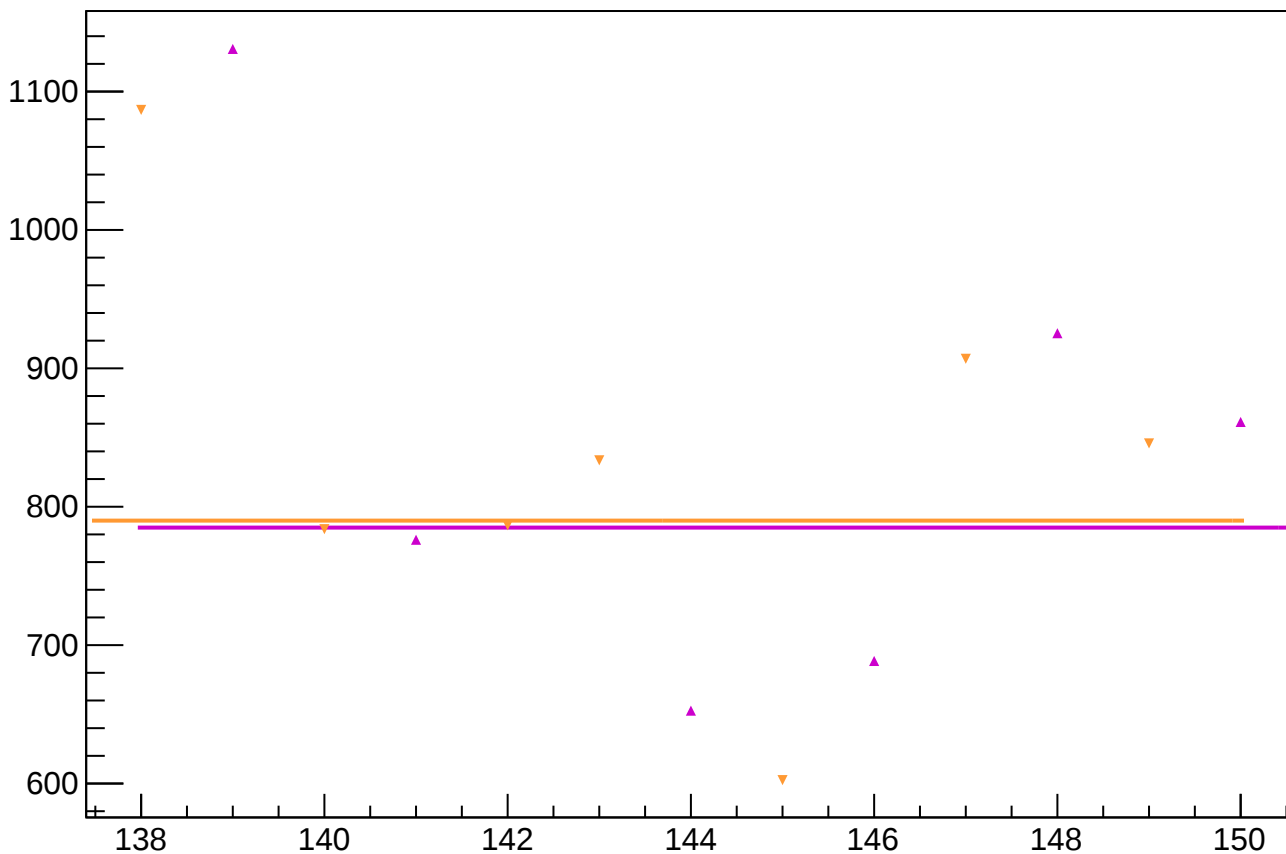
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -478.279+/-358.576  $\chi^2/\text{NDF}$ :2.6/5

Out: 1265.465+/-356.838  $\chi^2/\text{NDF}$ :16.1/6

All: 397.827+/-252.935  $\chi^2/\text{NDF}$ : 30.6/12

# asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 789.975+/-0.252  $\chi^2/\text{NDF}$ :291533.3/6

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

Left In: 784.926+/-0.254  $\chi^2/\text{NDF}$ :299285.5/5

Left: 787.463+/-0.179  $\chi^2/\text{NDF}$ : 591018.0/12

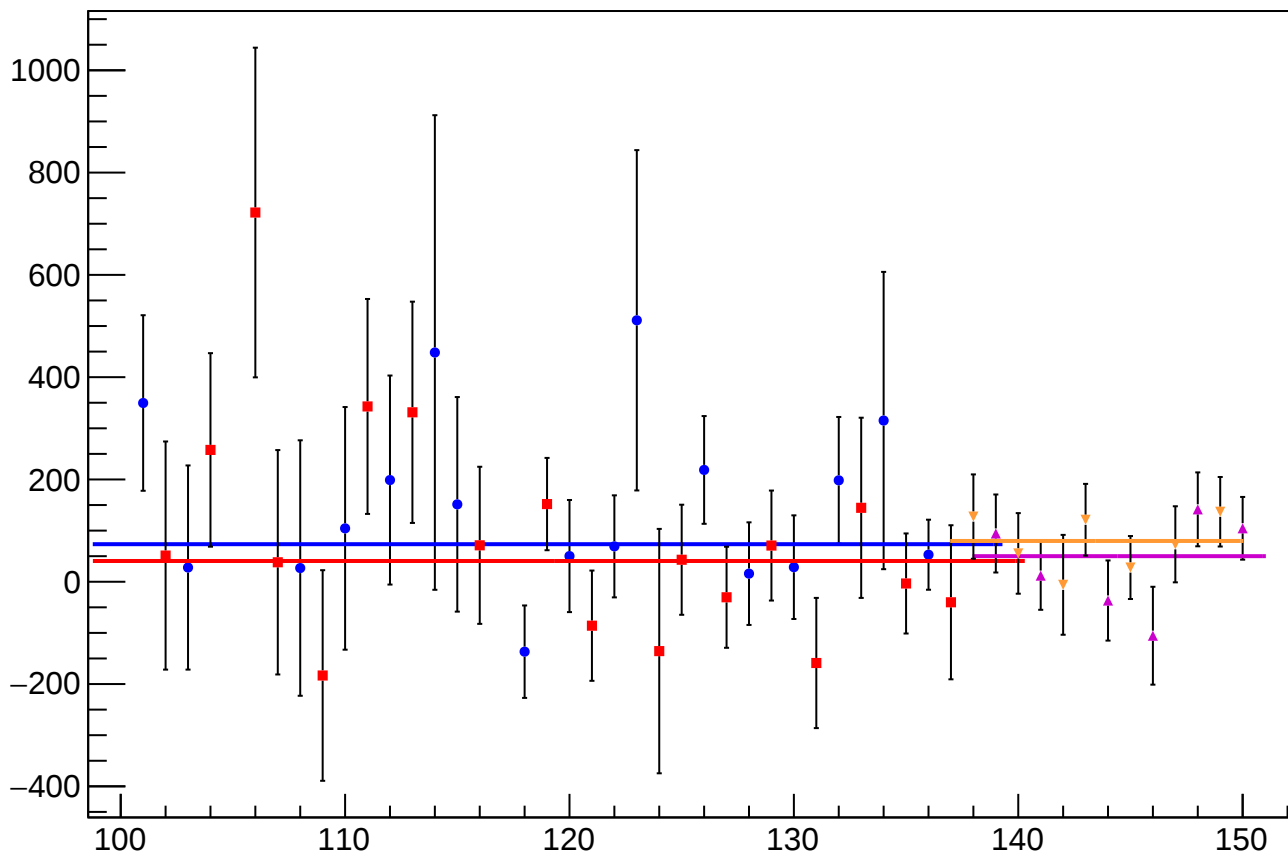
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 784.926+/-0.254  $\chi^2/\text{NDF}$ :299285.5/5

Out: 789.975+/-0.252  $\chi^2/\text{NDF}$ :291533.3/6

All: 787.463+/-0.179  $\chi^2/\text{NDF}$ : 591018.0/12

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: 79.742 $\pm$ 27.979  $\chi^2$ /NDF:3.0/6

Right Out: 40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

Left In: 50.034 $\pm$ 29.804  $\chi^2$ /NDF:6.9/5

Left: 65.826 $\pm$ 20.399  $\chi^2$ /NDF: 10.4/12

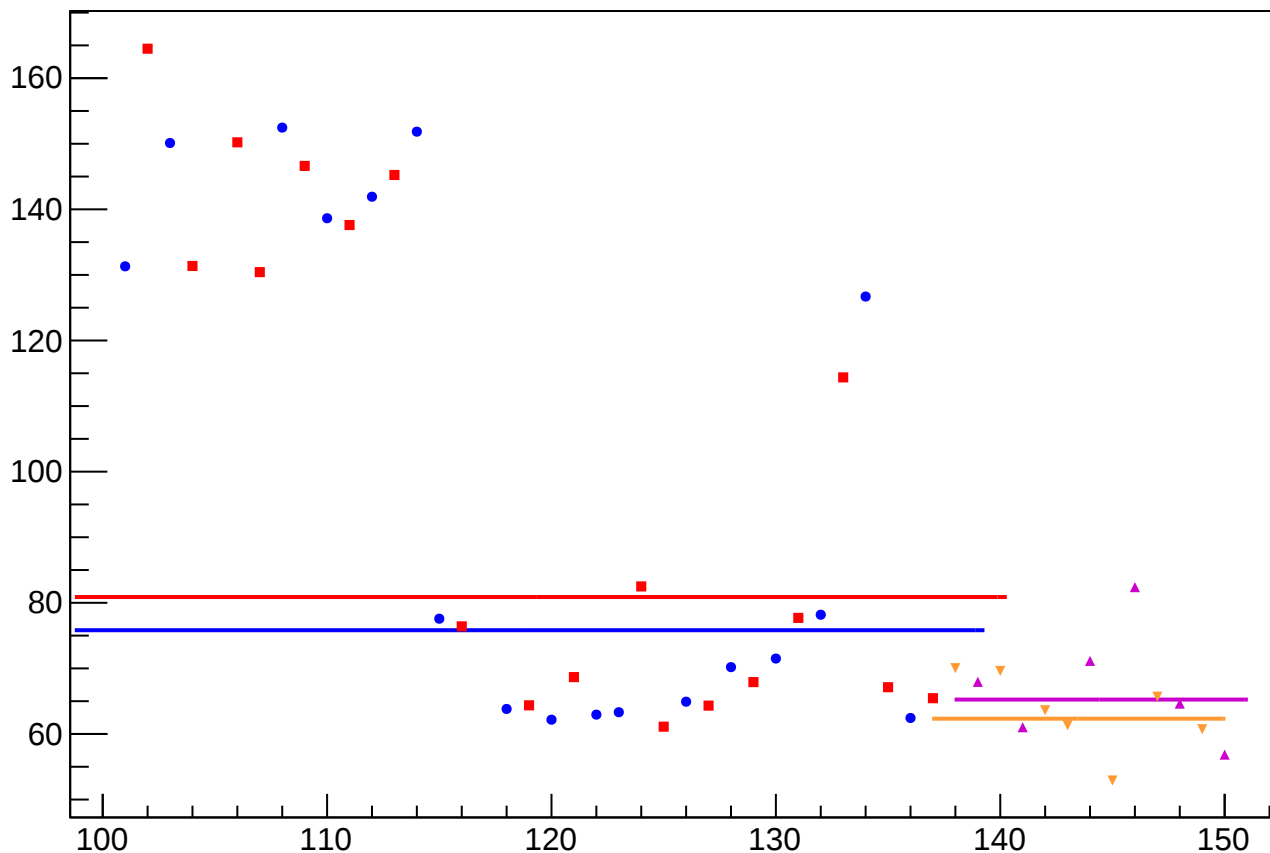
Right: 57.887 $\pm$ 22.535  $\chi^2$ /NDF: 34.0/34

In: 61.258 $\pm$ 21.505  $\chi^2$ /NDF:22.5/22

Out: 63.222 $\pm$ 21.271  $\chi^2$ /NDF:22.0/24

All: 62.251 $\pm$ 15.123  $\chi^2$ /NDF: 44.5/47

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 75.820 $\pm$ 0.022  $\chi^2$ /NDF: 1349961.8/16

Left Out: 62.332 $\pm$ 0.020  $\chi^2$ /NDF: 87393.6/6

Right Out: 80.881 $\pm$ 0.023  $\chi^2$ /NDF: 1526044.5/17

Left In: 65.248 $\pm$ 0.021  $\chi^2$ /NDF: 123635.4/5

Left: 63.698 $\pm$ 0.014  $\chi^2$ /NDF: 221202.3/12

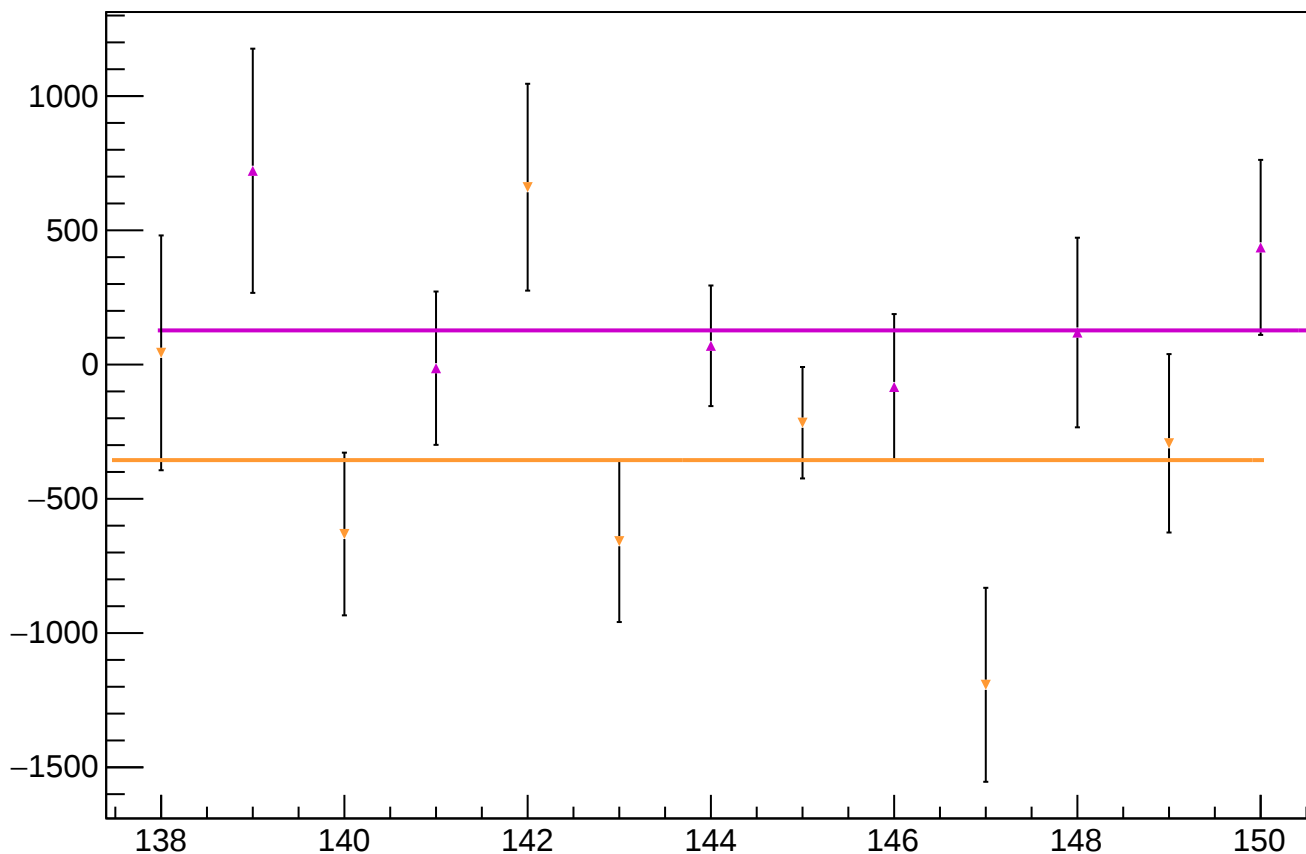
Right: 78.217 $\pm$ 0.016  $\chi^2$ /NDF: 2901160.0/34

In: 70.315 $\pm$ 0.015  $\chi^2$ /NDF: 1594232.5/22

Out: 70.160 $\pm$ 0.015  $\chi^2$ /NDF: 1984396.9/24

All: 70.237 $\pm$ 0.011  $\chi^2$ /NDF: 3578682.4/47

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: -355.848+/-116.382  $\chi^2/\text{NDF}$ :15.5/6

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

Left In: 127.247+/-121.331  $\chi^2/\text{NDF}$ :3.5/5

Left: -124.356+/-83.990  $\chi^2/\text{NDF}$ : 27.3/12

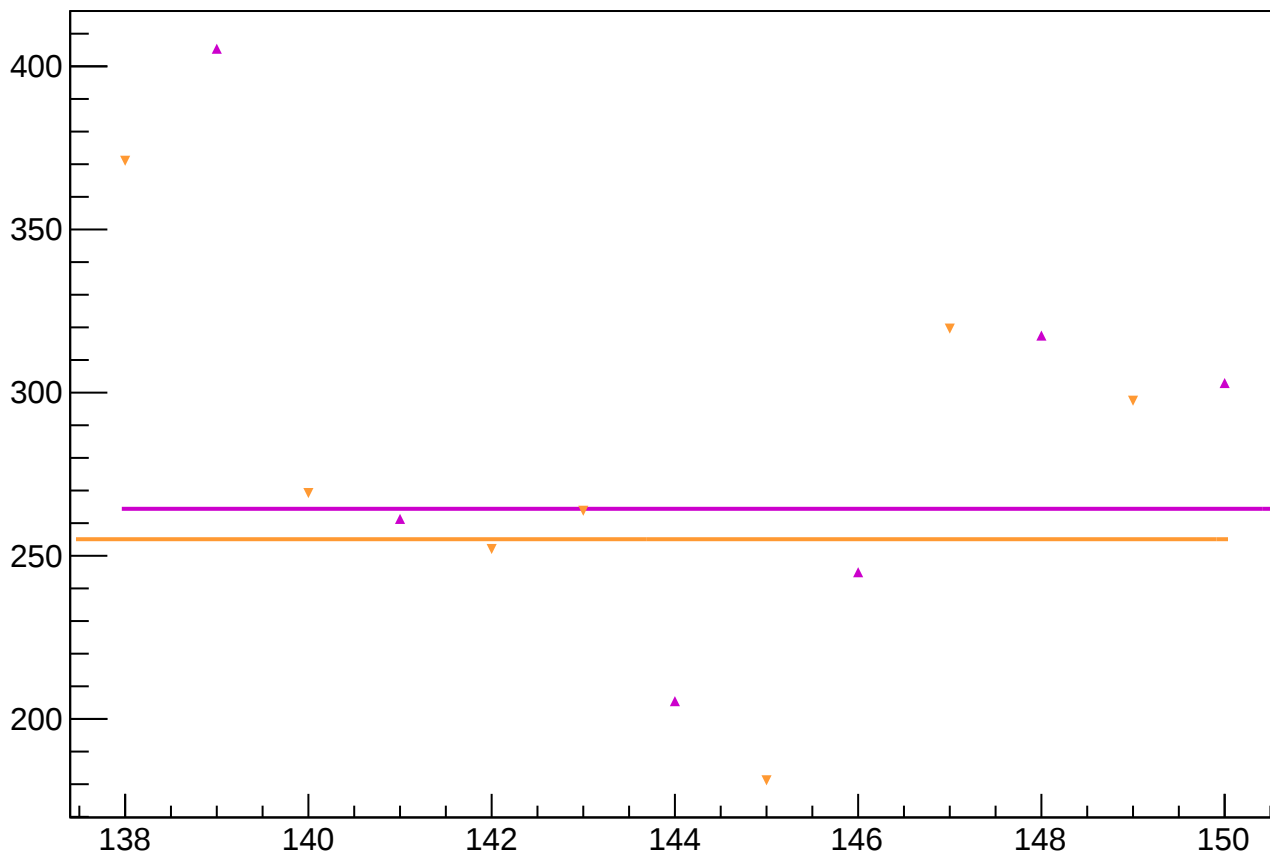
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 127.247+/-121.331  $\chi^2/\text{NDF}$ :3.5/5

Out: -355.848+/-116.382  $\chi^2/\text{NDF}$ :15.5/6

All: -124.356+/-83.990  $\chi^2/\text{NDF}$ : 27.3/12

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: 255.079+/-0.082  $\chi^2/\text{NDF}$ :496830.9/6

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

Left In: 264.397+/-0.086  $\chi^2/\text{NDF}$ :413702.0/5

Left: 259.544+/-0.059  $\chi^2/\text{NDF}$ : 916676.5/12

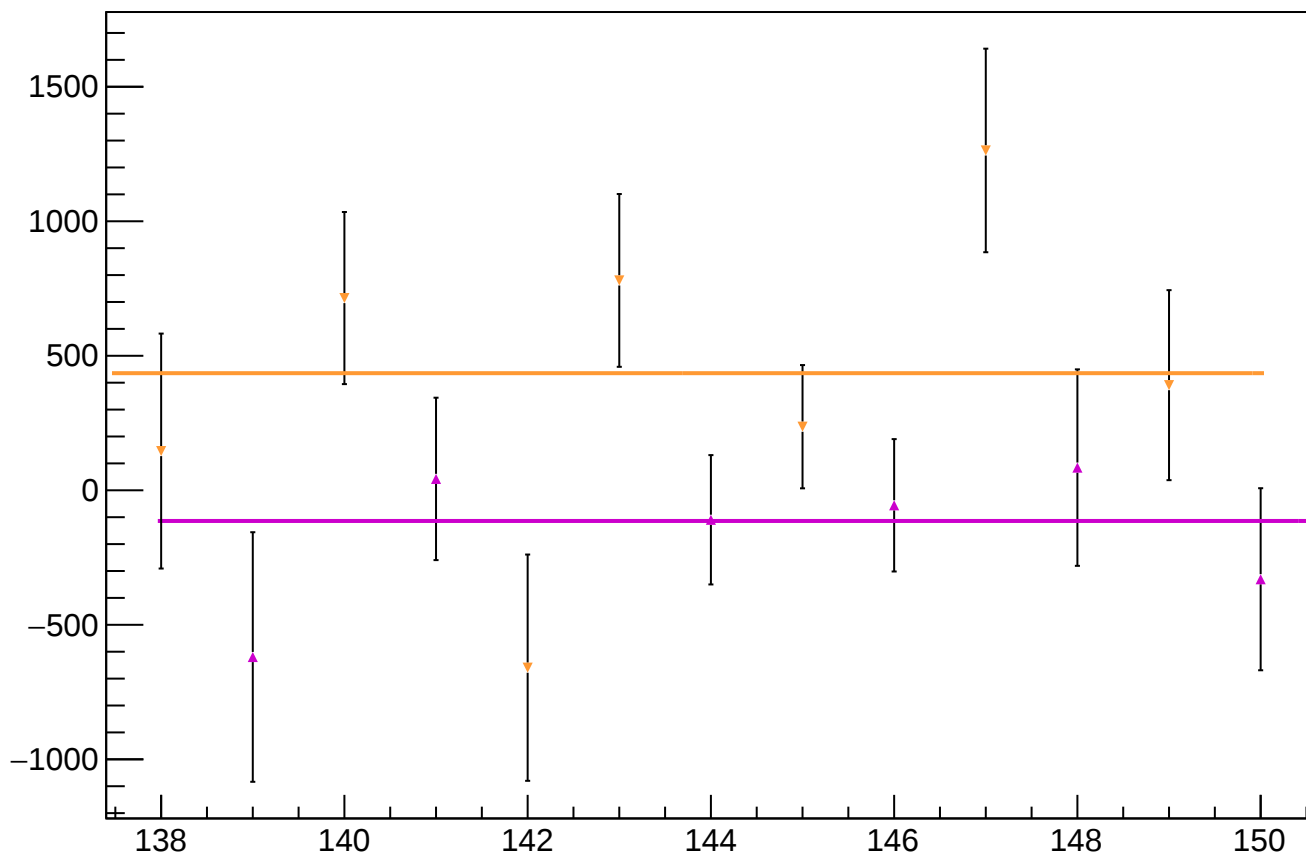
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 264.397+/-0.086  $\chi^2/\text{NDF}$ :413702.0/5

Out: 255.079+/-0.082  $\chi^2/\text{NDF}$ :496830.9/6

All: 259.544+/-0.059  $\chi^2/\text{NDF}$ : 916676.5/12

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out:  $435.346 \pm 124.586$   $\chi^2/\text{NDF}$ : 14.7/6

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

Left In:  $-114.009 \pm 123.393$   $\chi^2/\text{NDF}$ : 2.2/5

Left:  $158.027 \pm 87.671$   $\chi^2/\text{NDF}$ : 26.7/12

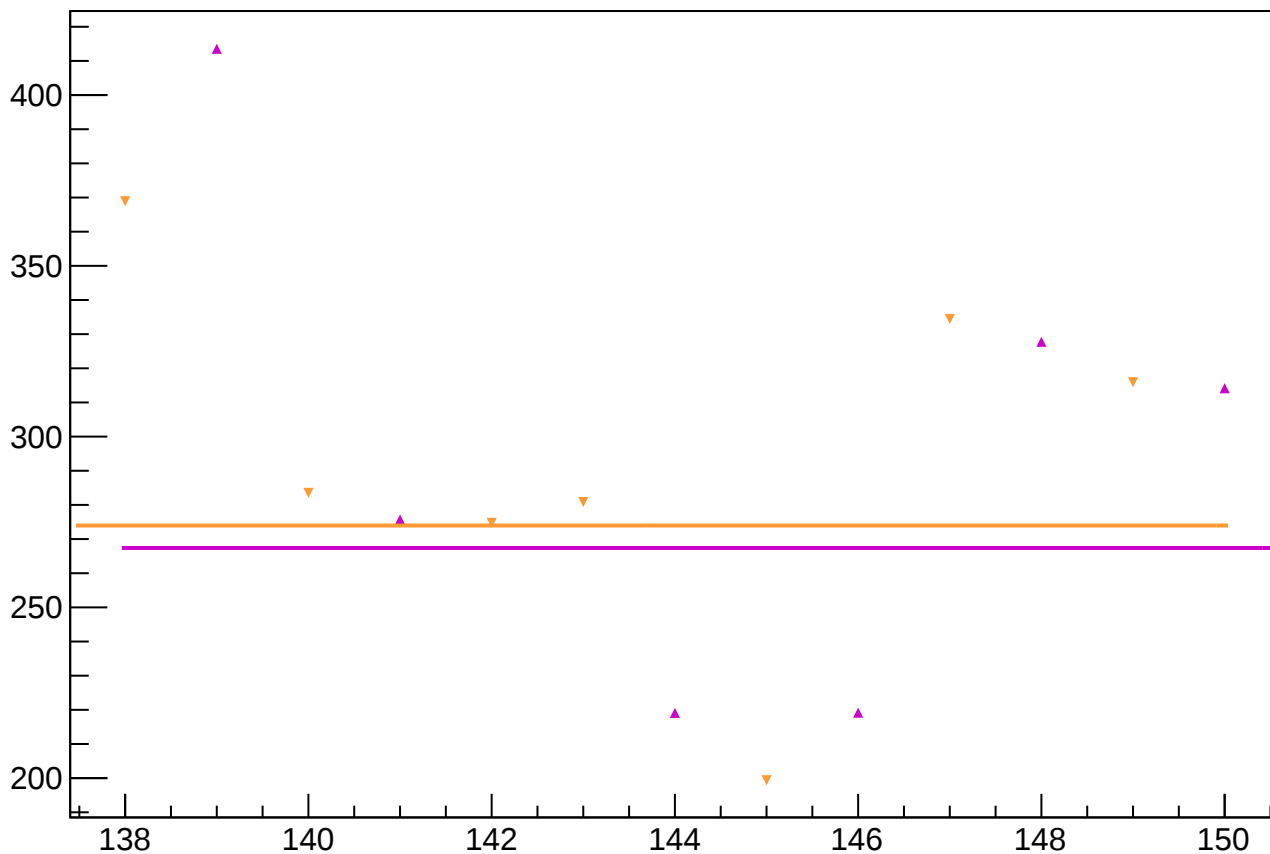
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-114.009 \pm 123.393$   $\chi^2/\text{NDF}$ : 2.2/5

Out:  $435.346 \pm 124.586$   $\chi^2/\text{NDF}$ : 14.7/6

All:  $158.027 \pm 87.671$   $\chi^2/\text{NDF}$ : 26.7/12

# asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 273.967+/-0.088  $\chi^2/\text{NDF}$ :388561.3/6

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

Left In: 267.394+/-0.087  $\chi^2/\text{NDF}$ :450478.5/5

Left: 270.649+/-0.062  $\chi^2/\text{NDF}$ : 841850.4/12

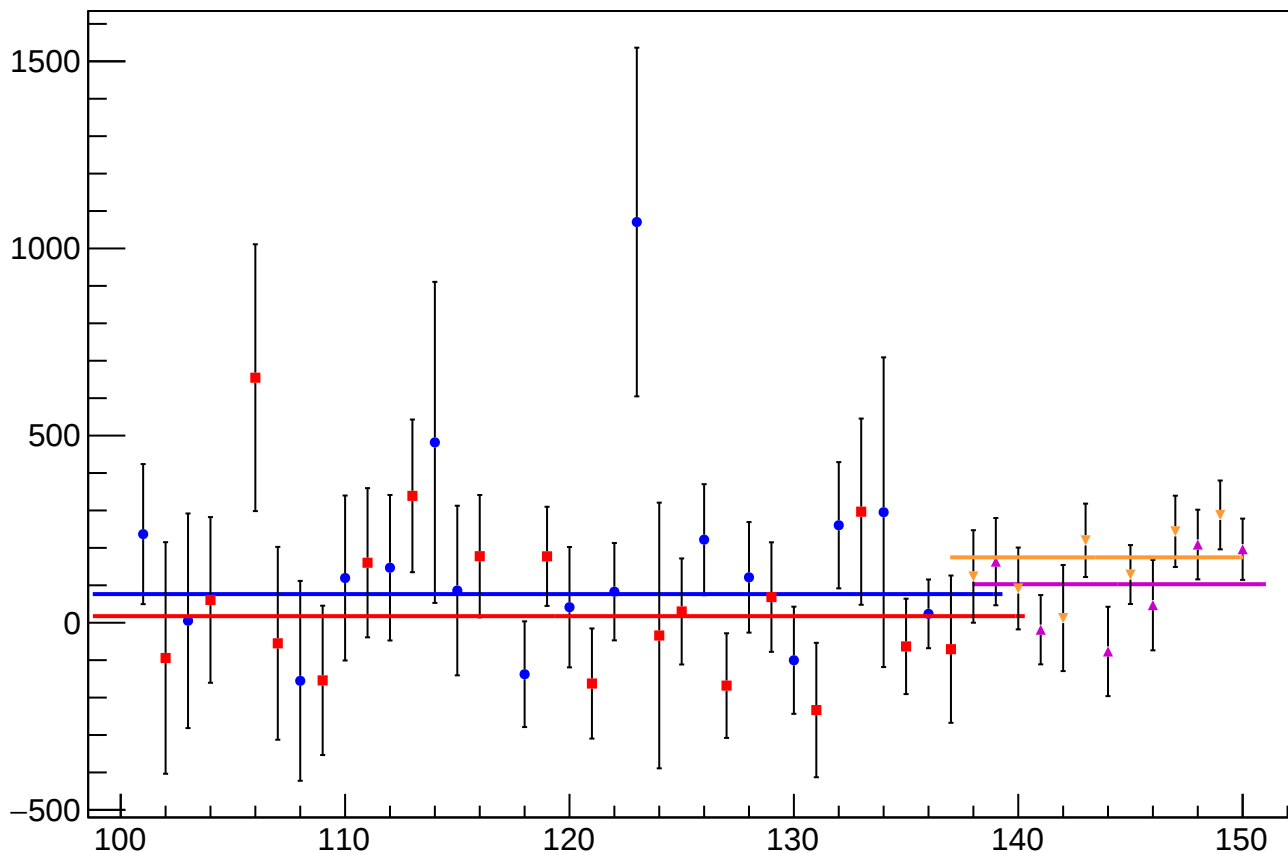
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 267.394+/-0.087  $\chi^2/\text{NDF}$ :450478.5/5

Out: 273.967+/-0.088  $\chi^2/\text{NDF}$ :388561.3/6

All: 270.649+/-0.062  $\chi^2/\text{NDF}$ : 841850.4/12

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 76.503+/-41.558  $\chi^2/\text{NDF}$ : 13.9/16

Left Out: 174.671+/-38.003  $\chi^2/\text{NDF}$ : 4.7/6

Right Out: 17.605+/-42.297  $\chi^2/\text{NDF}$ : 16.8/17

Left In: 102.950+/-41.043  $\chi^2/\text{NDF}$ : 7.1/5

Left: 141.564+/-27.885  $\chi^2/\text{NDF}$ : 13.4/12

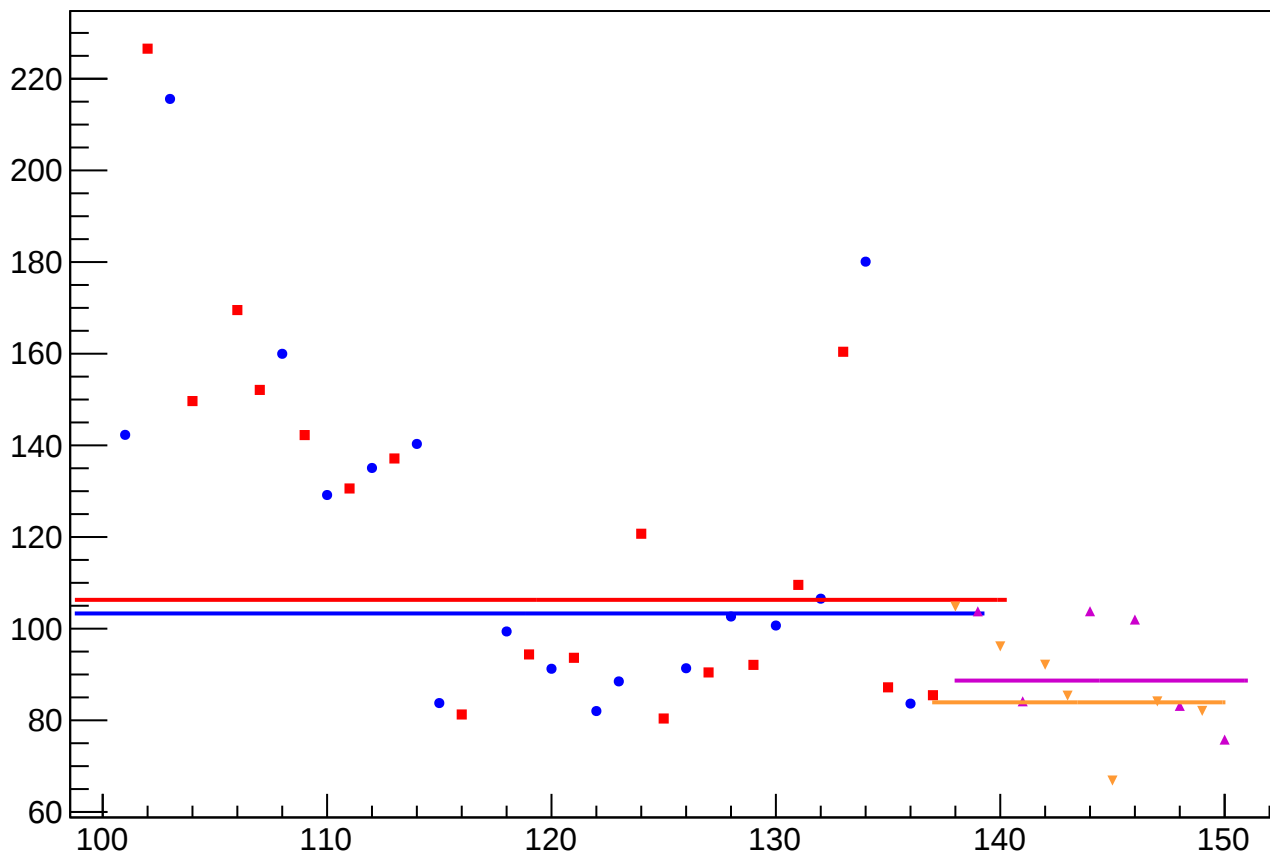
Right: 47.573+/-29.644  $\chi^2/\text{NDF}$ : 31.7/34

In: 89.891+/-29.202  $\chi^2/\text{NDF}$ : 21.2/22

Out: 104.512+/-28.269  $\chi^2/\text{NDF}$ : 29.1/24

All: 97.439+/-20.311  $\chi^2/\text{NDF}$ : 50.4/47

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: 83.924 $\pm$ 0.027  $\chi^2$ /NDF:183960.0/6

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

Left In: 88.672 $\pm$ 0.029  $\chi^2$ /NDF:151348.5/5

Left: 86.116 $\pm$ 0.020  $\chi^2$ /NDF: 349718.3/12

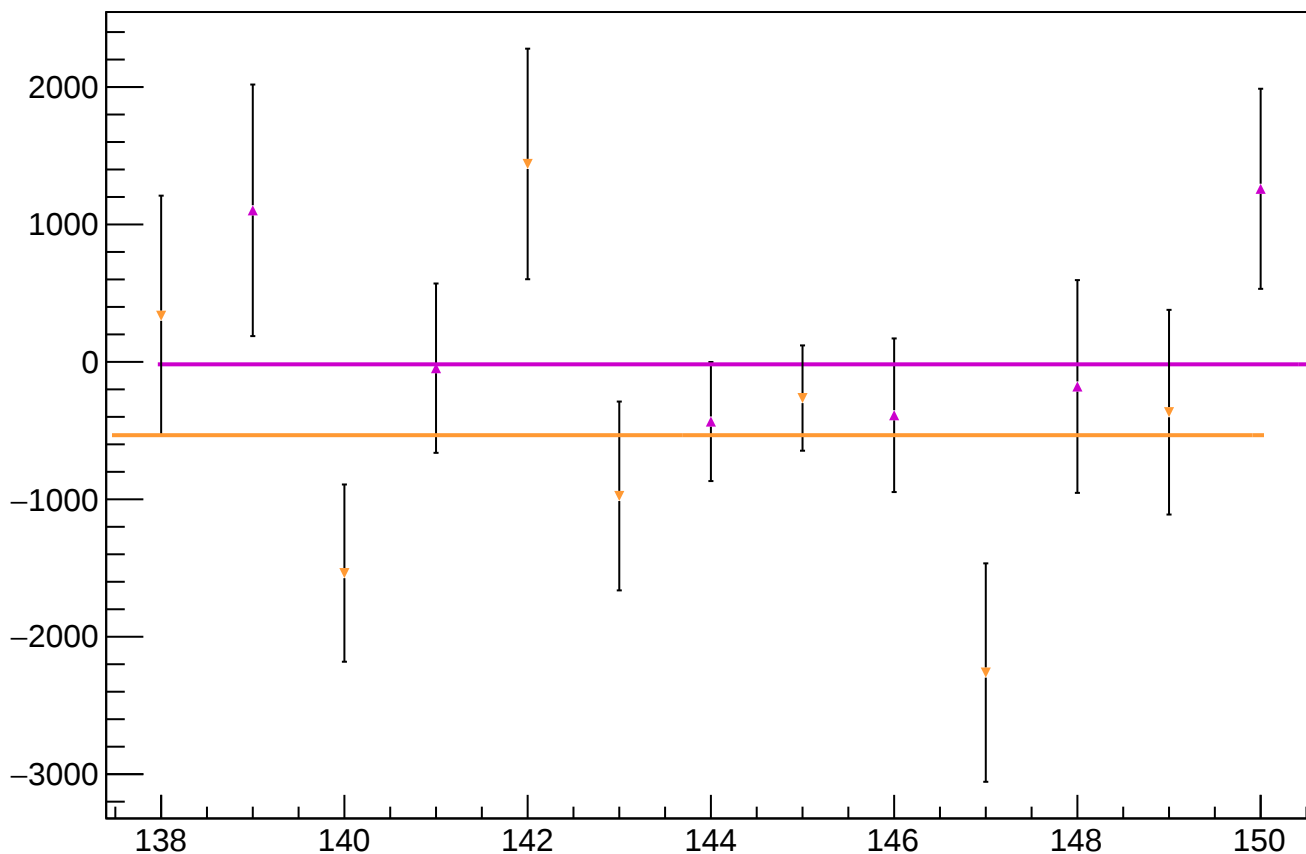
Right: 104.777 $\pm$ 0.021  $\chi^2$ /NDF: 1843531.0/34

In: 95.904 $\pm$ 0.021  $\chi^2$ /NDF:1114900.0/22

Out: 93.914 $\pm$ 0.020  $\chi^2$ /NDF:1494061.7/24

All: 94.876 $\pm$ 0.014  $\chi^2$ /NDF: 2613754.5/47

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: -533.300+/-239.363  $\chi^2/\text{NDF}$ :14.6/6

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

Left In: -17.720+/-250.668  $\chi^2/\text{NDF}$ :6.0/5

Left: -287.398+/-173.114  $\chi^2/\text{NDF}$ : 22.8/12

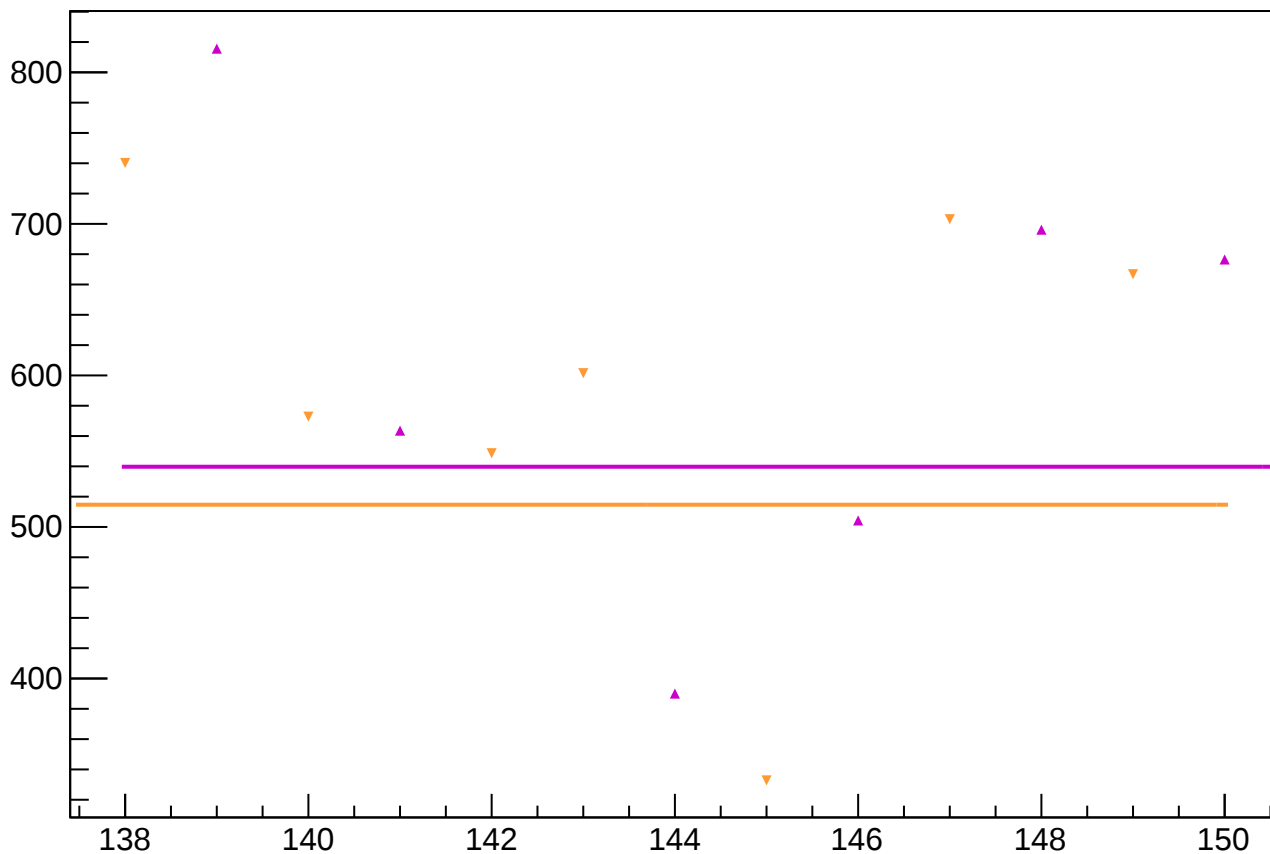
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.720+/-250.668  $\chi^2/\text{NDF}$ :6.0/5

Out: -533.300+/-239.363  $\chi^2/\text{NDF}$ :14.6/6

All: -287.398+/-173.114  $\chi^2/\text{NDF}$ : 22.8/12

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: 514.693+/-0.169  $\chi^2/\text{NDF}$ :831339.5/6

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

Left In: 539.744+/-0.177  $\chi^2/\text{NDF}$ :583856.3/5

Left: 526.641+/-0.122  $\chi^2/\text{NDF}$ : 1425643.7/12

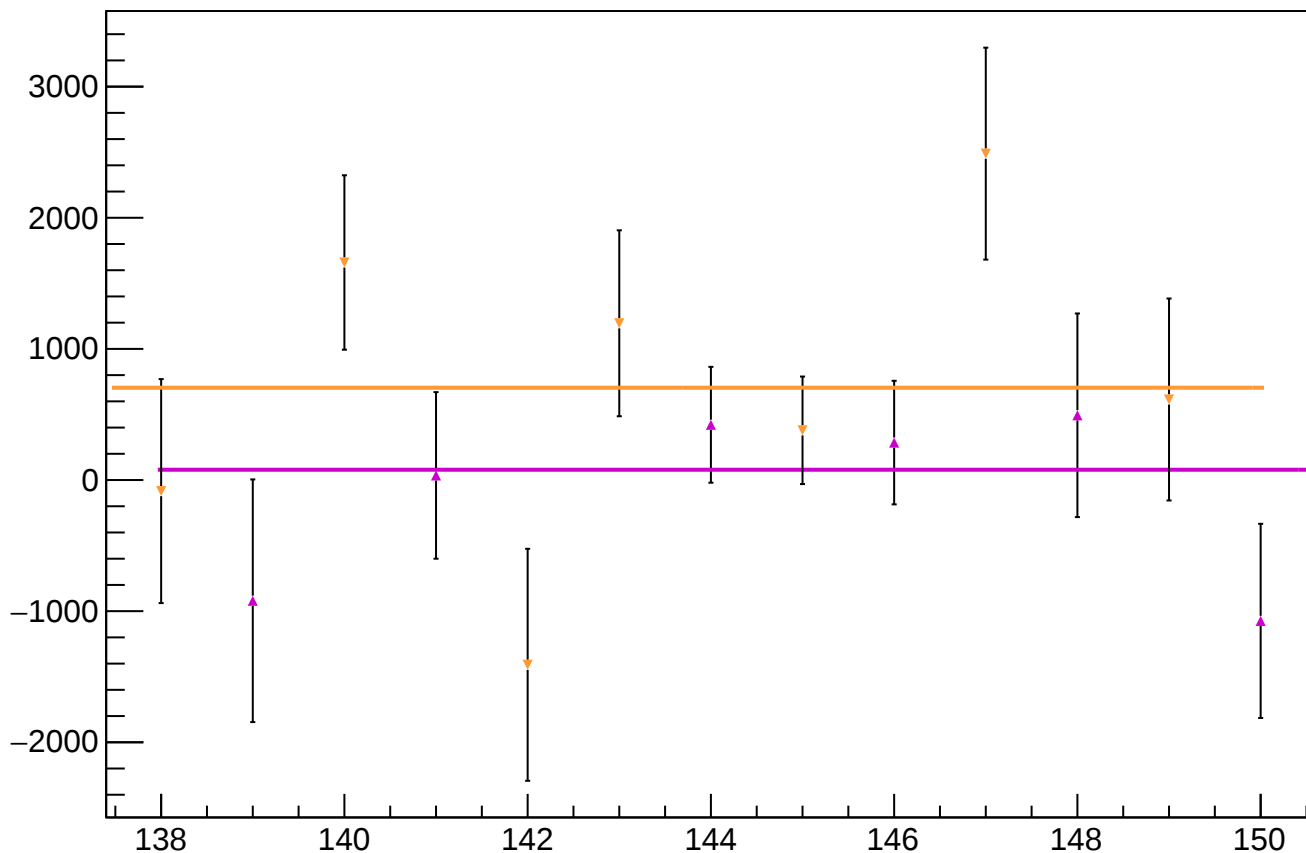
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 539.744+/-0.177  $\chi^2/\text{NDF}$ :583856.3/5

Out: 514.693+/-0.169  $\chi^2/\text{NDF}$ :831339.5/6

All: 526.641+/-0.122  $\chi^2/\text{NDF}$ : 1425643.7/12

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 704.274+/-249.502  $\chi^2/\text{NDF}$ :14.6/6

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

Left In: 78.583+/-244.257  $\chi^2/\text{NDF}$ :4.7/5

Left: 384.782+/-174.540  $\chi^2/\text{NDF}$ : 22.5/12

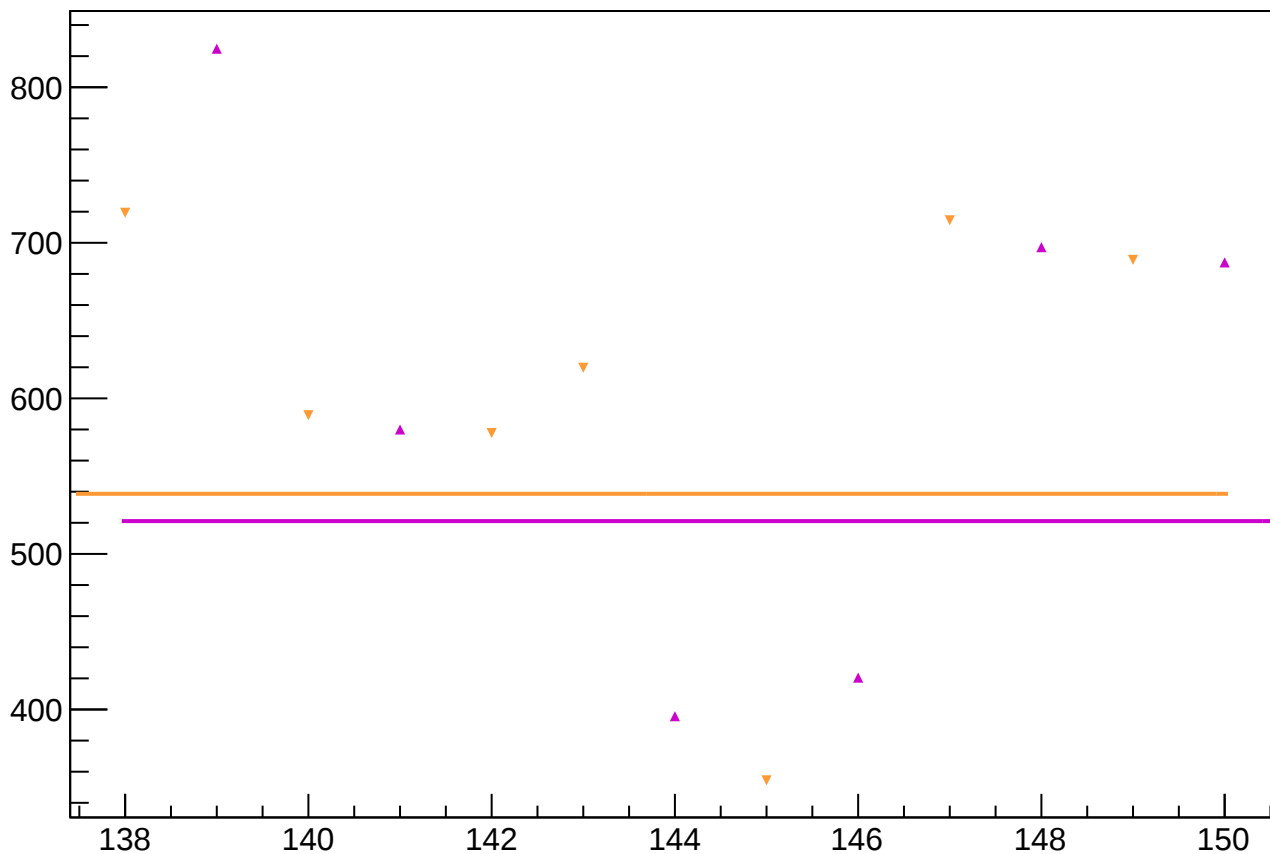
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 78.583+/-244.257  $\chi^2/\text{NDF}$ :4.7/5

Out: 704.274+/-249.502  $\chi^2/\text{NDF}$ :14.6/6

All: 384.782+/-174.540  $\chi^2/\text{NDF}$ : 22.5/12

# asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 538.650+/-0.176  $\chi^2/\text{NDF}$ : 705630.3/6

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

Left In: 521.103+/-0.173  $\chi^2/\text{NDF}$ : 688954.3/5

Left: 529.690+/-0.123  $\chi^2/\text{NDF}$ : 1399636.0/12

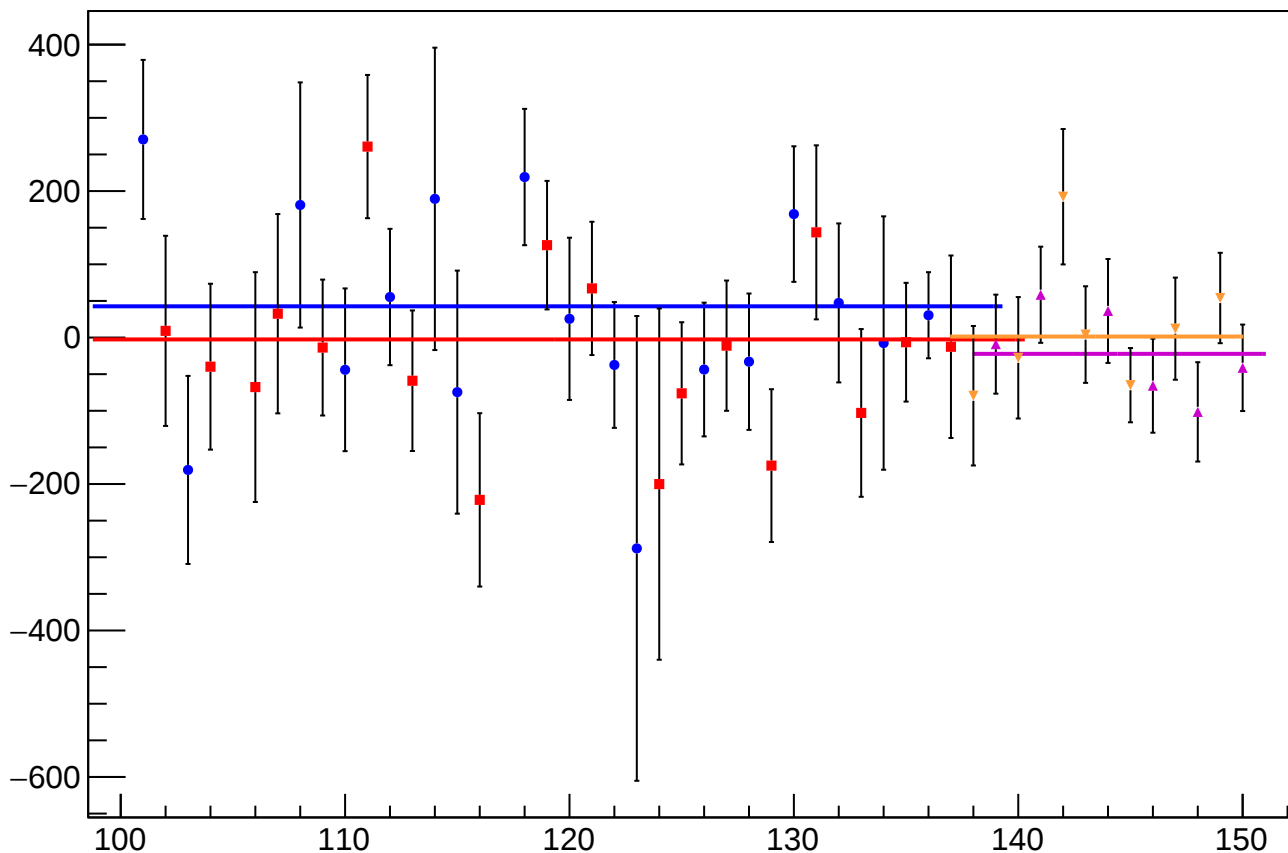
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 521.103+/-0.173  $\chi^2/\text{NDF}$ : 688954.3/5

Out: 538.650+/-0.176  $\chi^2/\text{NDF}$ : 705630.3/6

All: 529.690+/-0.123  $\chi^2/\text{NDF}$ : 1399636.0/12

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 42.654 $\pm$ 25.486  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: 1.378 $\pm$ 26.169  $\chi^2/\text{NDF}$ : 7.6/6

Right Out: -2.576 $\pm$ 25.088  $\chi^2/\text{NDF}$ : 20.4/17

Left In: -22.253 $\pm$ 26.761  $\chi^2/\text{NDF}$ : 4.2/5

Left: -10.173 $\pm$ 18.710  $\chi^2/\text{NDF}$ : 12.1/12

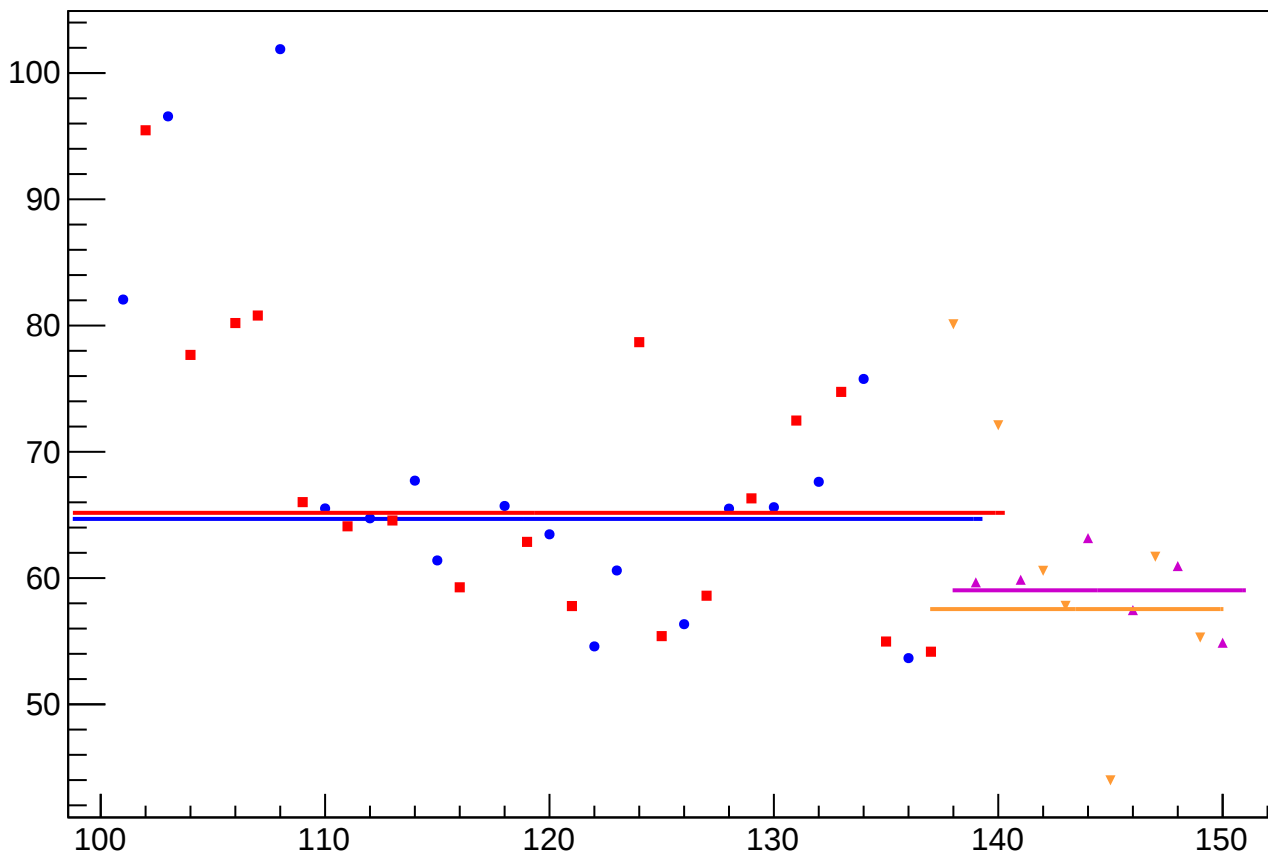
Right: 19.683 $\pm$ 17.879  $\chi^2/\text{NDF}$ : 40.9/34

In: 11.784 $\pm$ 18.455  $\chi^2/\text{NDF}$ : 26.1/22

Out: -0.682 $\pm$ 18.110  $\chi^2/\text{NDF}$ : 28.0/24

All: 5.433 $\pm$ 12.926  $\chi^2/\text{NDF}$ : 54.3/47

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: 57.544 $\pm$ 0.019  $\chi^2$ /NDF:329048.9/6

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

Left In: 59.031 $\pm$ 0.019  $\chi^2$ /NDF:19982.4/5

Left: 58.271 $\pm$ 0.013  $\chi^2$ /NDF: 352187.5/12

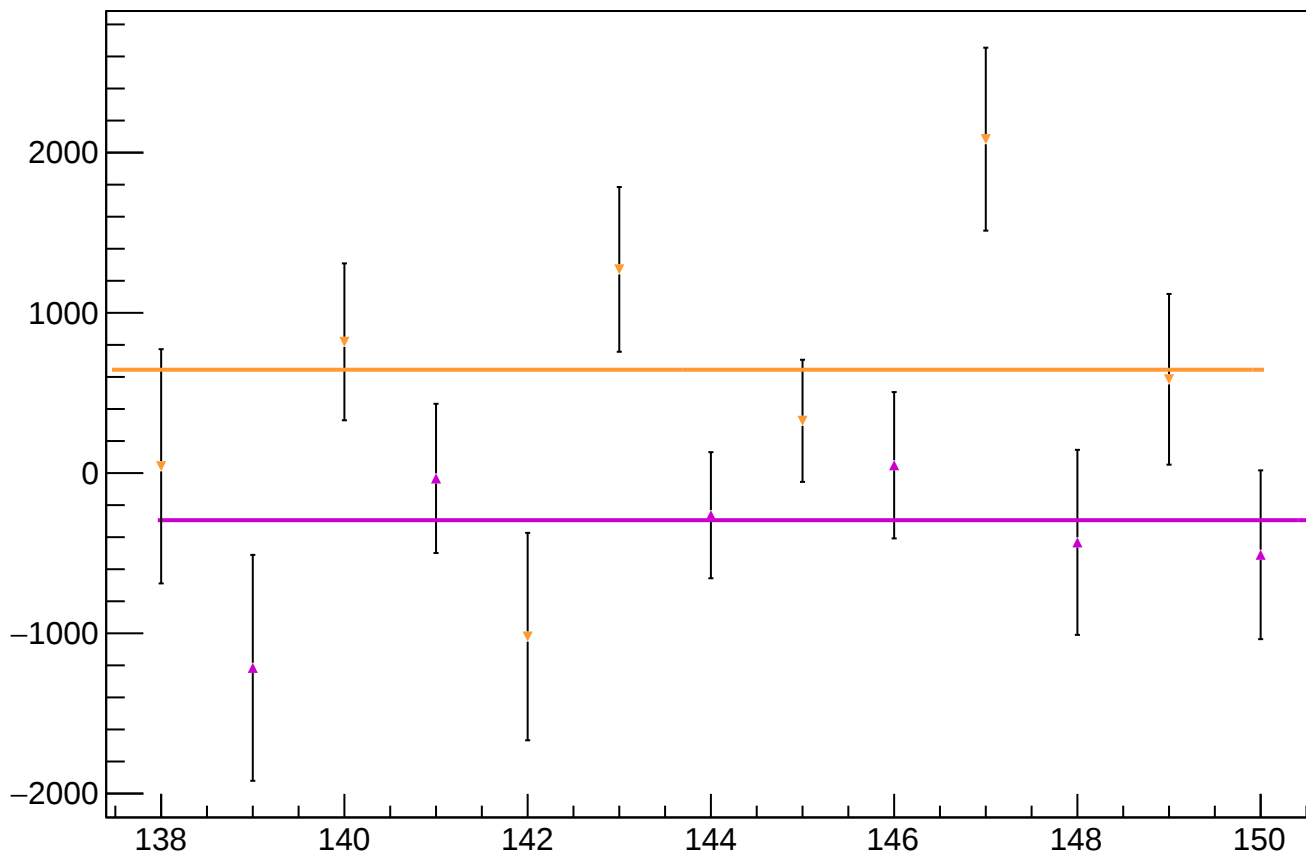
Right: 64.930 $\pm$ 0.013  $\chi^2$ /NDF: 705130.8/34

In: 61.996 $\pm$ 0.013  $\chi^2$ /NDF:466994.8/22

Out: 61.516 $\pm$ 0.013  $\chi^2$ /NDF:722066.4/24

All: 61.752 $\pm$ 0.009  $\chi^2$ /NDF: 1189749.6/47

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: 644.961+/-197.293  $\chi^2/\text{NDF}$ :16.0/6

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

Left In: -293.999+/-202.114  $\chi^2/\text{NDF}$ :2.8/5

Left: 186.813+/-141.181  $\chi^2/\text{NDF}$ : 29.8/12

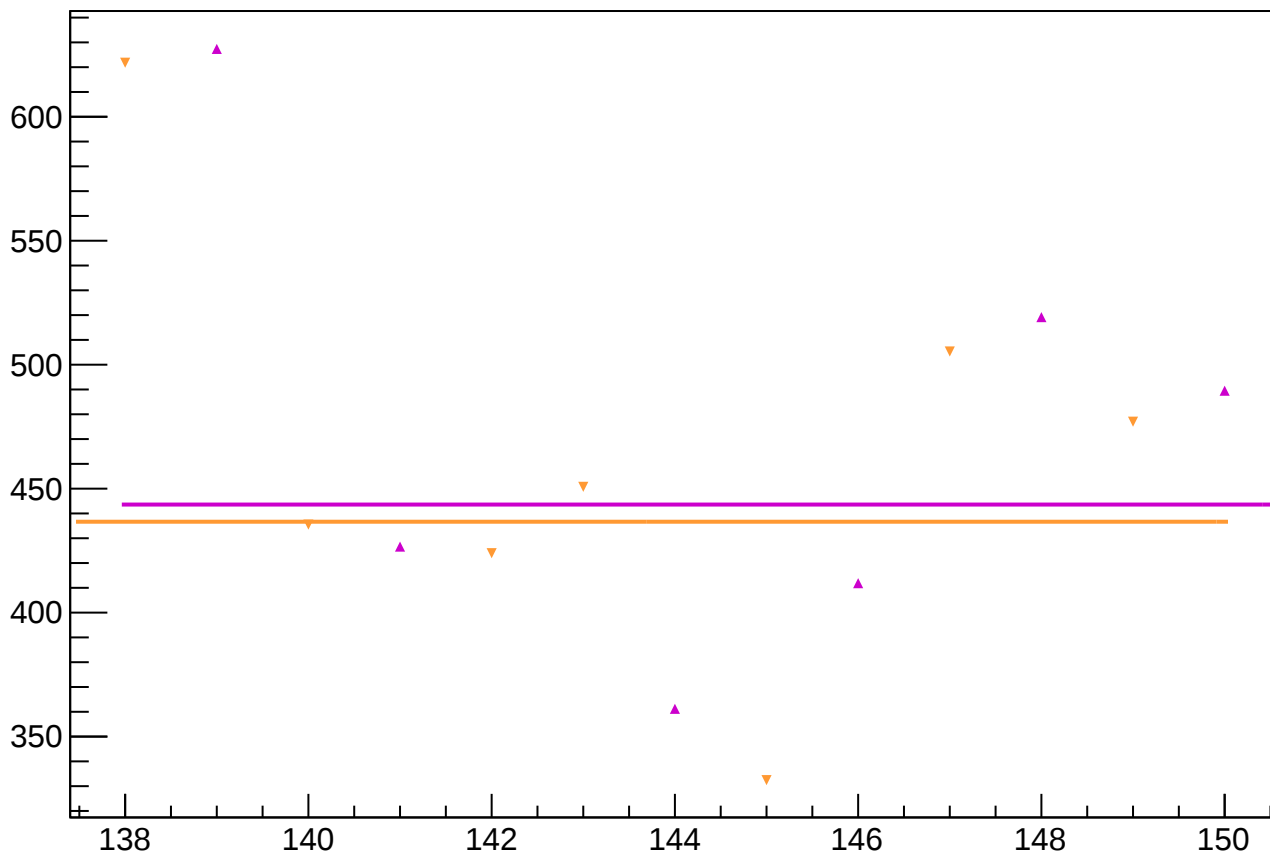
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -293.999+/-202.114  $\chi^2/\text{NDF}$ :2.8/5

Out: 644.961+/-197.293  $\chi^2/\text{NDF}$ :16.0/6

All: 186.813+/-141.181  $\chi^2/\text{NDF}$ : 29.8/12

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: 436.662+/-0.140  $\chi^2/\text{NDF}$ :320596.1/6

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

Left In: 443.586+/-0.143  $\chi^2/\text{NDF}$ :285392.4/5

Left: 440.041+/-0.100  $\chi^2/\text{NDF}$ : 607190.4/12

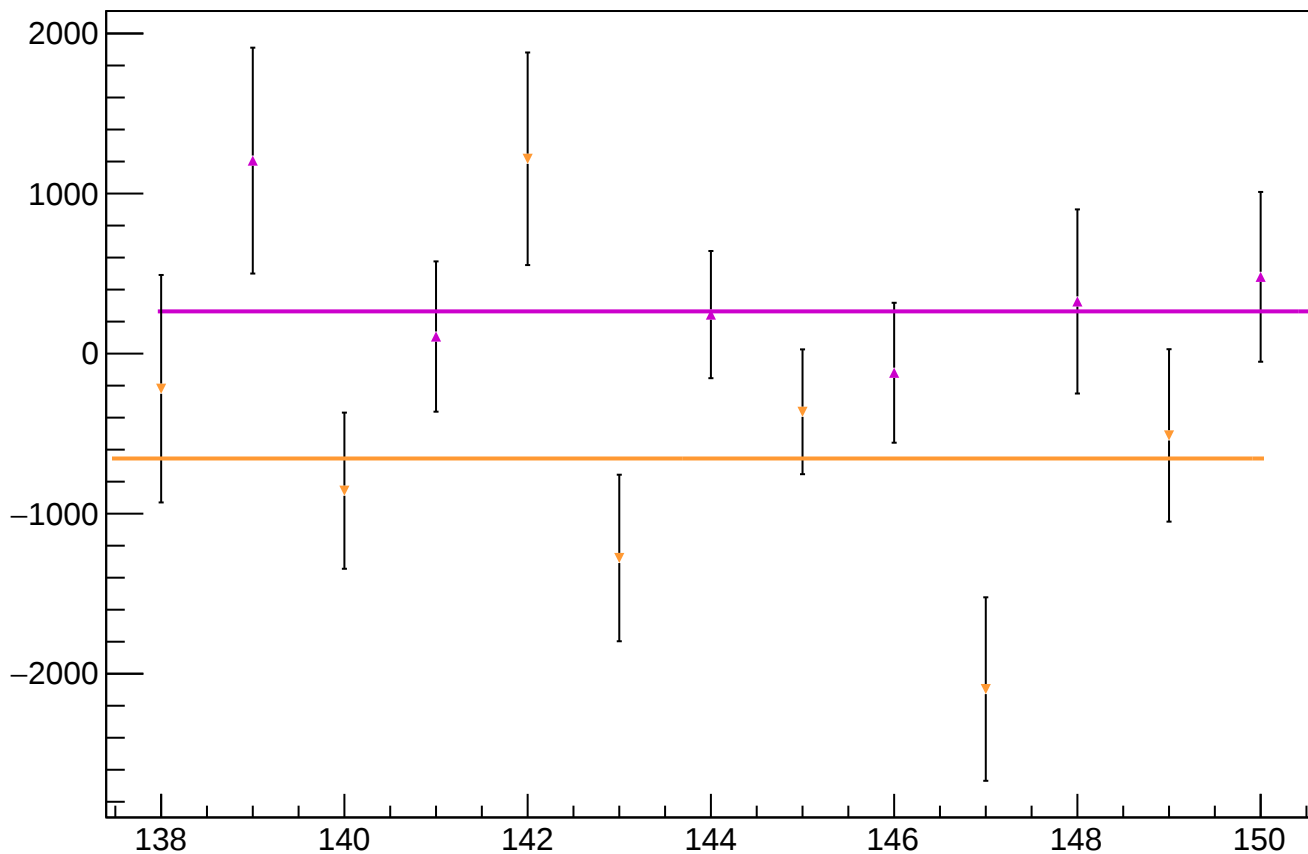
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 443.586+/-0.143  $\chi^2/\text{NDF}$ :285392.4/5

Out: 436.662+/-0.140  $\chi^2/\text{NDF}$ :320596.1/6

All: 440.041+/-0.100  $\chi^2/\text{NDF}$ : 607190.4/12

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: -655.302+/-199.155  $\chi^2/\text{NDF}$ :16.9/6

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

Left In: 263.798+/-201.250  $\chi^2/\text{NDF}$ :2.8/5

Left: -200.561+/-141.559  $\chi^2/\text{NDF}$ : 30.3/12

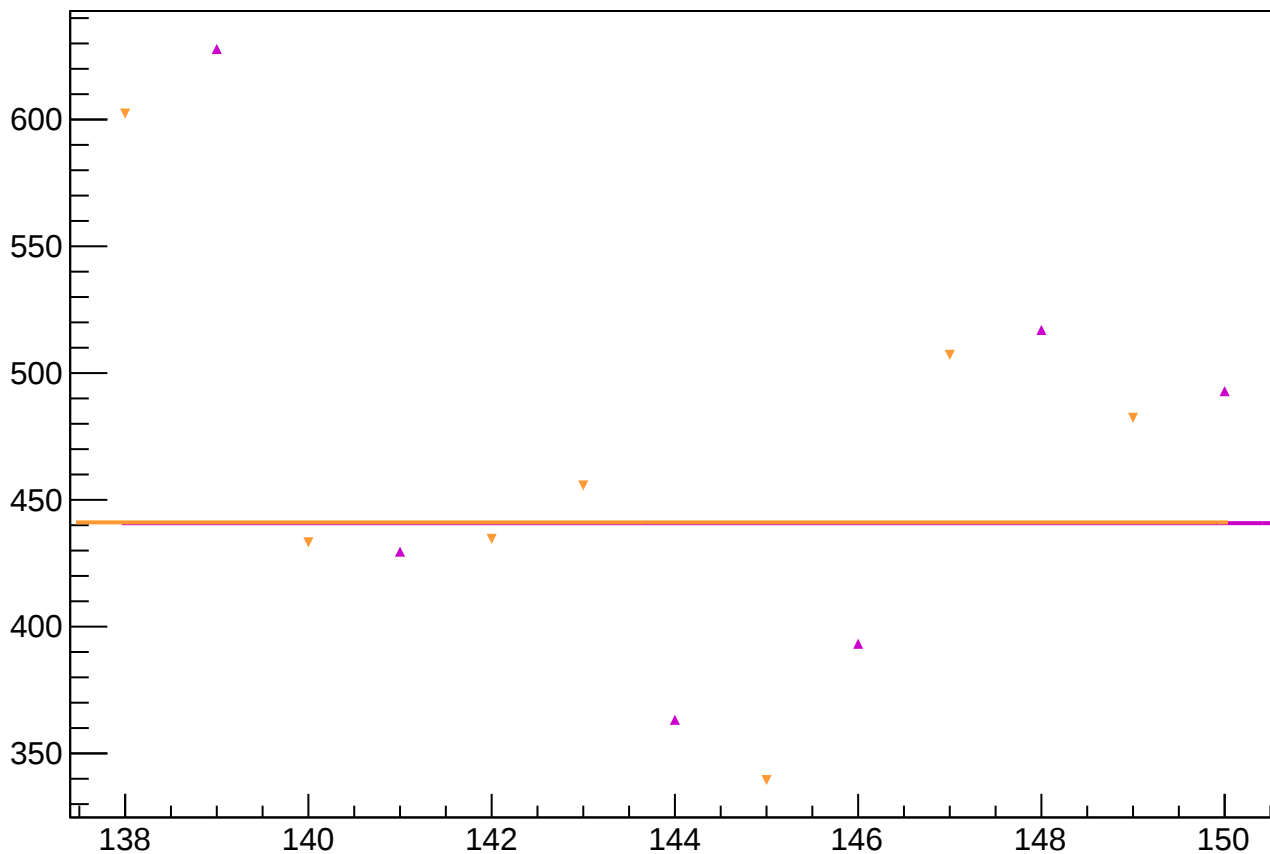
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 263.798+/-201.250  $\chi^2/\text{NDF}$ :2.8/5

Out: -655.302+/-199.155  $\chi^2/\text{NDF}$ :16.9/6

All: -200.561+/-141.559  $\chi^2/\text{NDF}$ : 30.3/12

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: 441.113+/-0.141  $\chi^2/\text{NDF}$ :279455.4/6

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

Left In: 440.807+/-0.142  $\chi^2/\text{NDF}$ :295888.7/5

Left: 440.962+/-0.100  $\chi^2/\text{NDF}$ : 575346.5/12

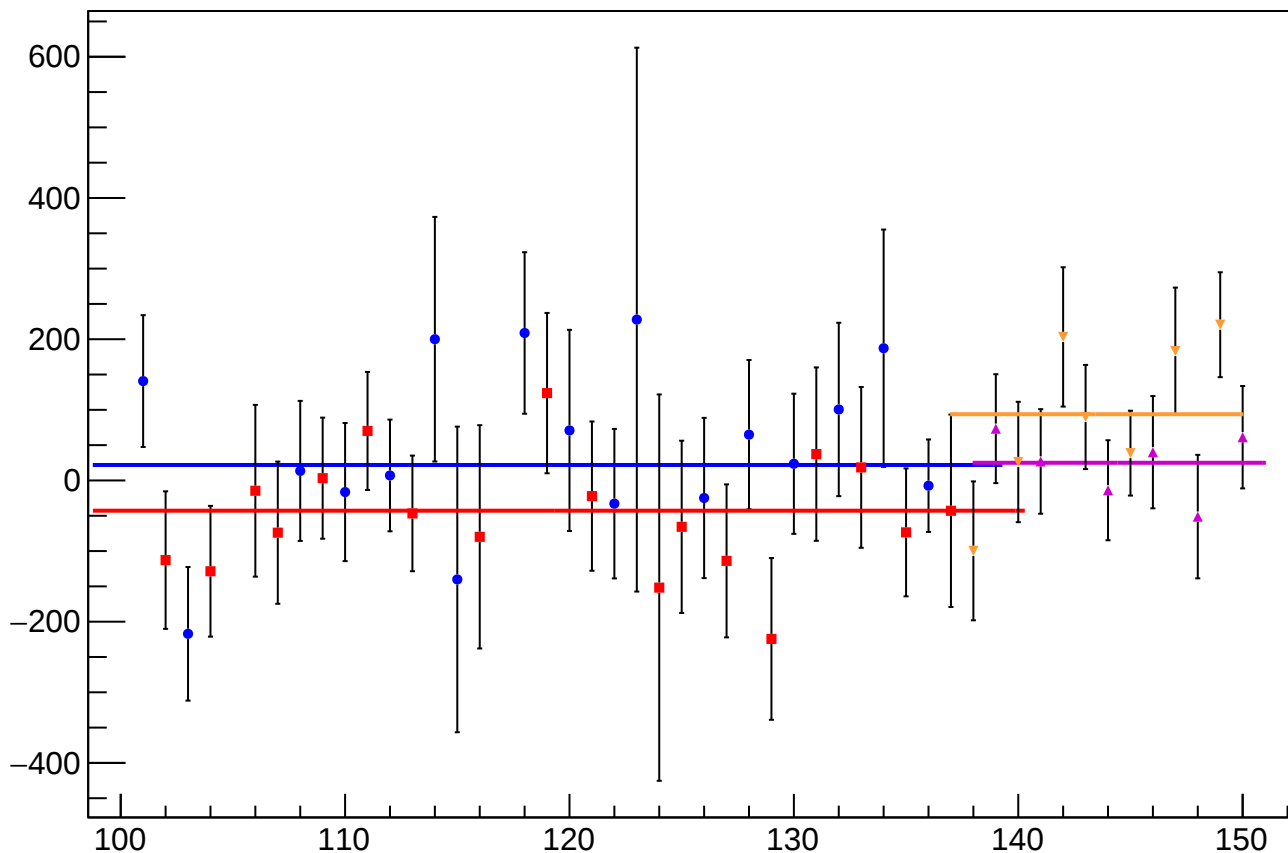
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 440.807+/-0.142  $\chi^2/\text{NDF}$ :295888.7/5

Out: 441.113+/-0.141  $\chi^2/\text{NDF}$ :279455.4/6

All: 440.962+/-0.100  $\chi^2/\text{NDF}$ : 575346.5/12

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: 93.777 $\pm$ 30.021  $\chi^2$ /NDF:10.5/6

Right Out: -42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

Left In: 25.034 $\pm$ 31.169  $\chi^2$ /NDF:1.7/5

Left: 60.695 $\pm$ 21.623  $\chi^2$ /NDF: 14.7/12

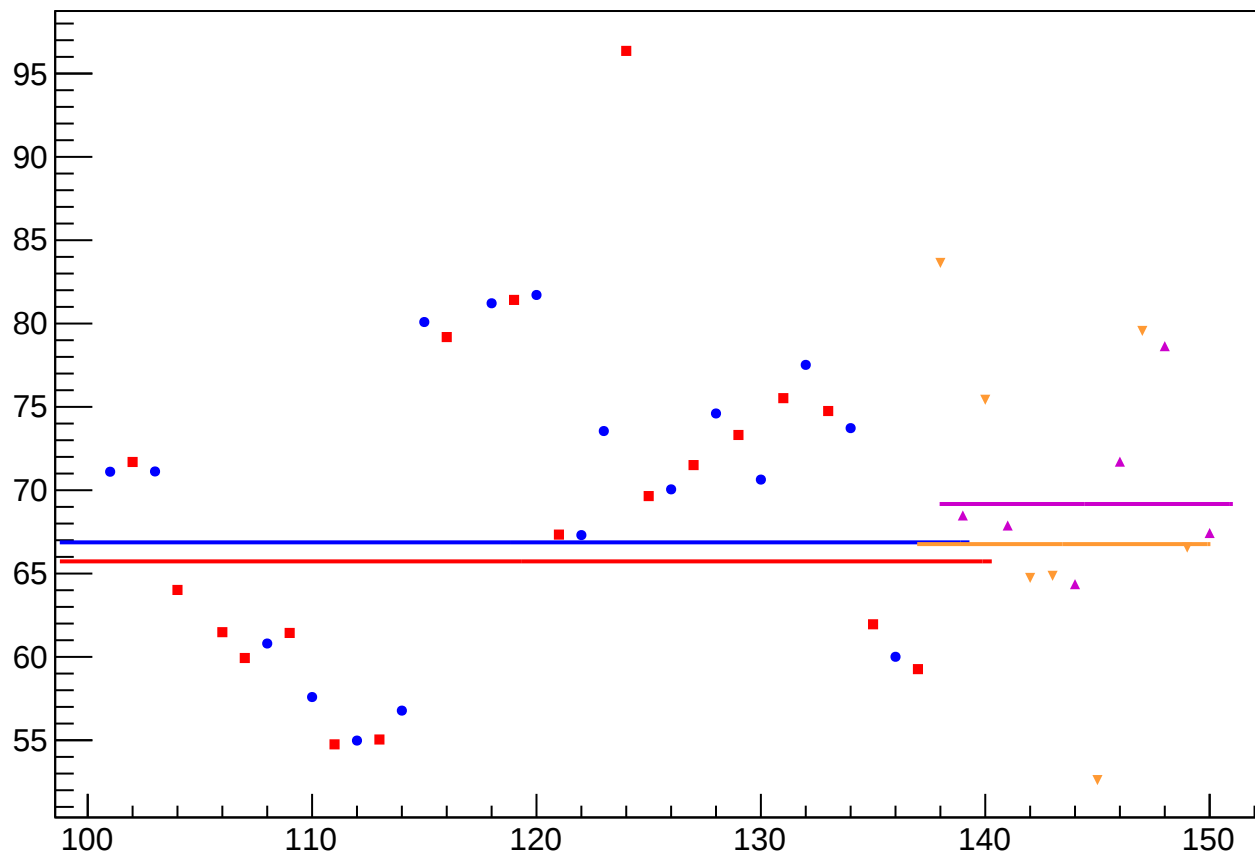
Right: -11.642 $\pm$ 18.082  $\chi^2$ /NDF: 28.1/34

In: 23.194 $\pm$ 19.990  $\chi^2$ /NDF:16.8/22

Out: 13.424 $\pm$ 19.264  $\chi^2$ /NDF:32.5/24

All: 18.128 $\pm$ 13.871  $\chi^2$ /NDF: 49.5/47

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: 66.767 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 233258.0/6

Right Out: 65.731 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 218867.5/17

Left In: 69.174 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 36646.6/5

Left: 67.925 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 276088.2/12

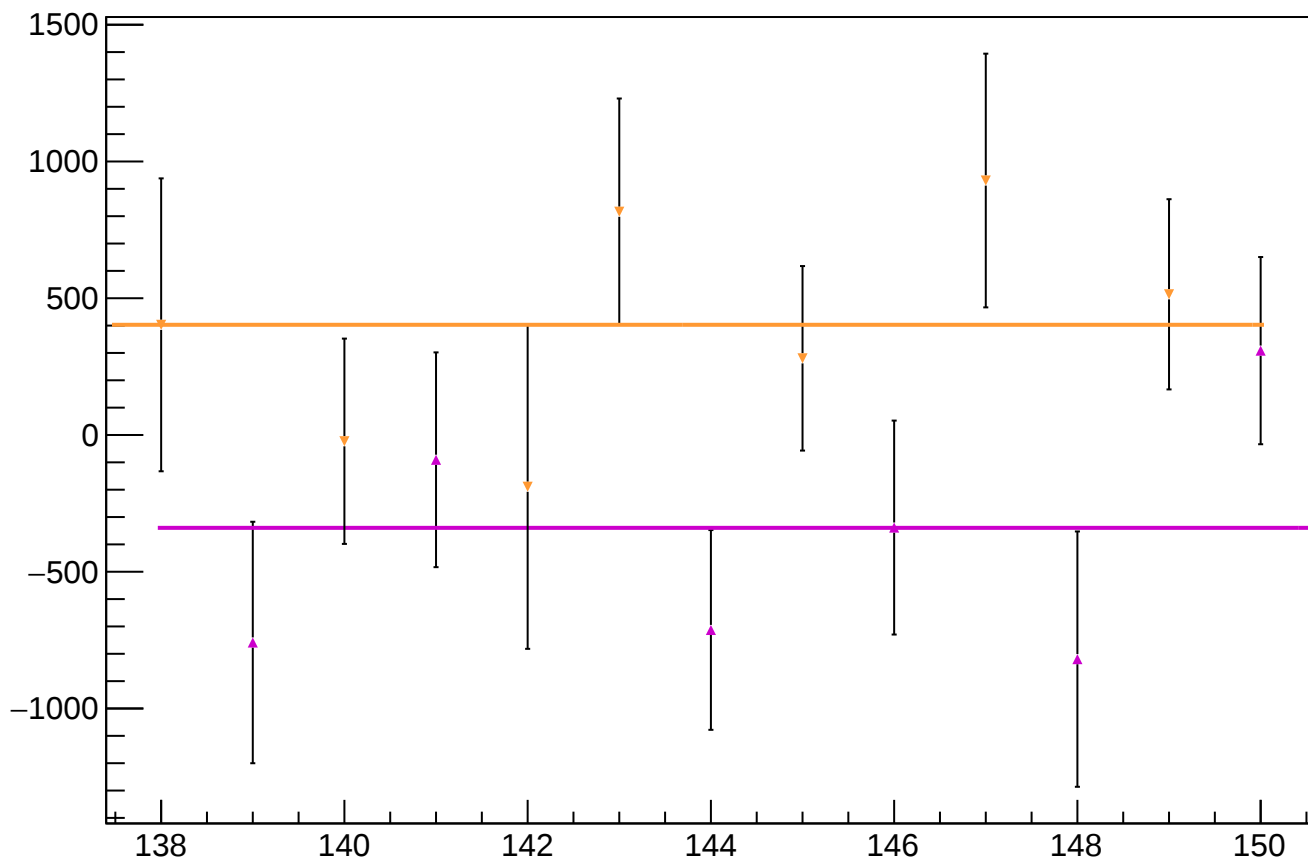
Right: 66.280 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 423373.0/34

In: 67.819 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 245581.2/22

Out: 66.157 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 453528.5/24

All: 66.957 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 706272.4/47

asym\_sam\_37\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 402.915 $\pm$ 156.216  $\chi^2$ /NDF:4.8/6

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

Left In: -339.492 $\pm$ 160.575  $\chi^2$ /NDF:7.0/5

Left: 41.925 $\pm$ 111.971  $\chi^2$ /NDF: 22.8/12

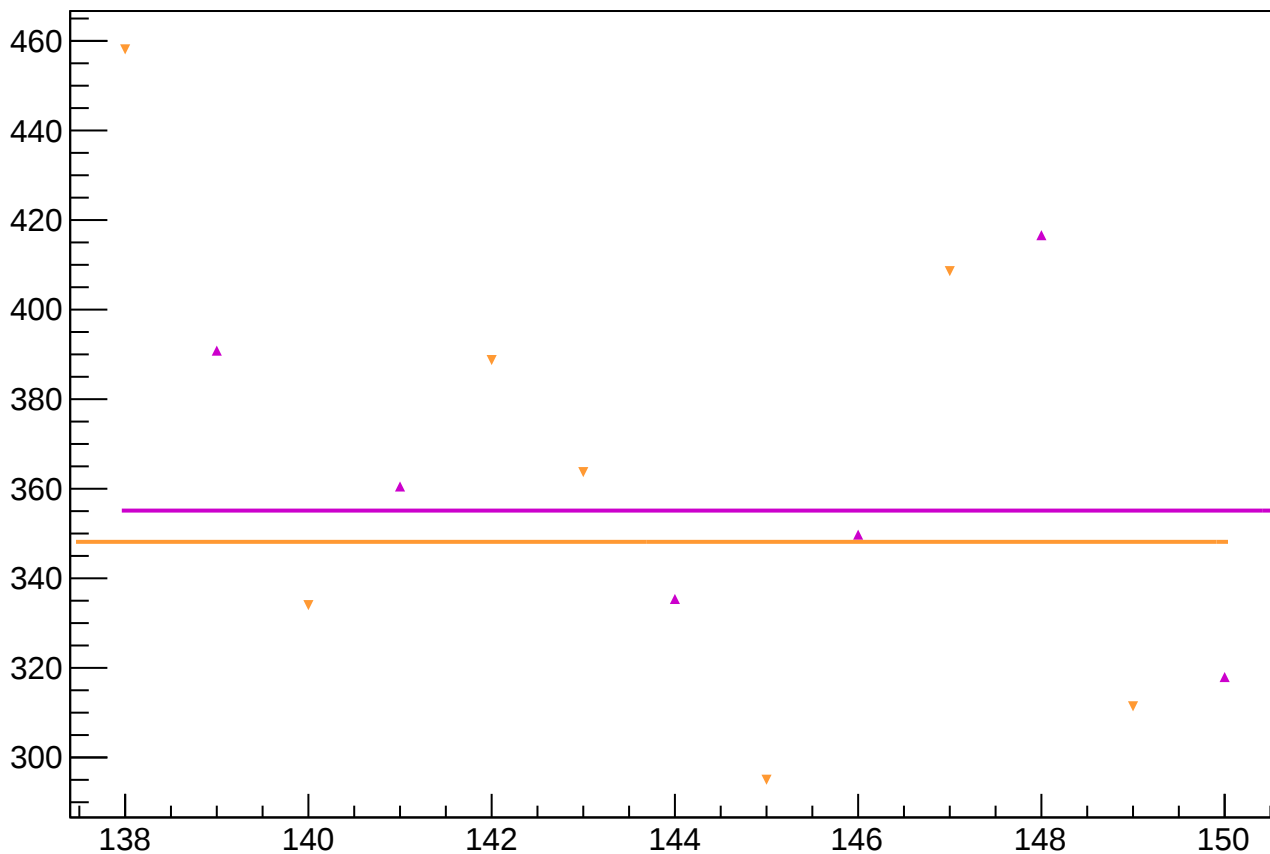
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -339.492 $\pm$ 160.575  $\chi^2$ /NDF:7.0/5

Out: 402.915 $\pm$ 156.216  $\chi^2$ /NDF:4.8/6

All: 41.925 $\pm$ 111.971  $\chi^2$ /NDF: 22.8/12

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: 348.145+/-0.110  $\chi^2/\text{NDF}$ : 205273.4/6

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

Left In: 355.124+/-0.114  $\chi^2/\text{NDF}$ : 77989.9/5

Left: 351.539+/-0.079  $\chi^2/\text{NDF}$ : 285203.8/12

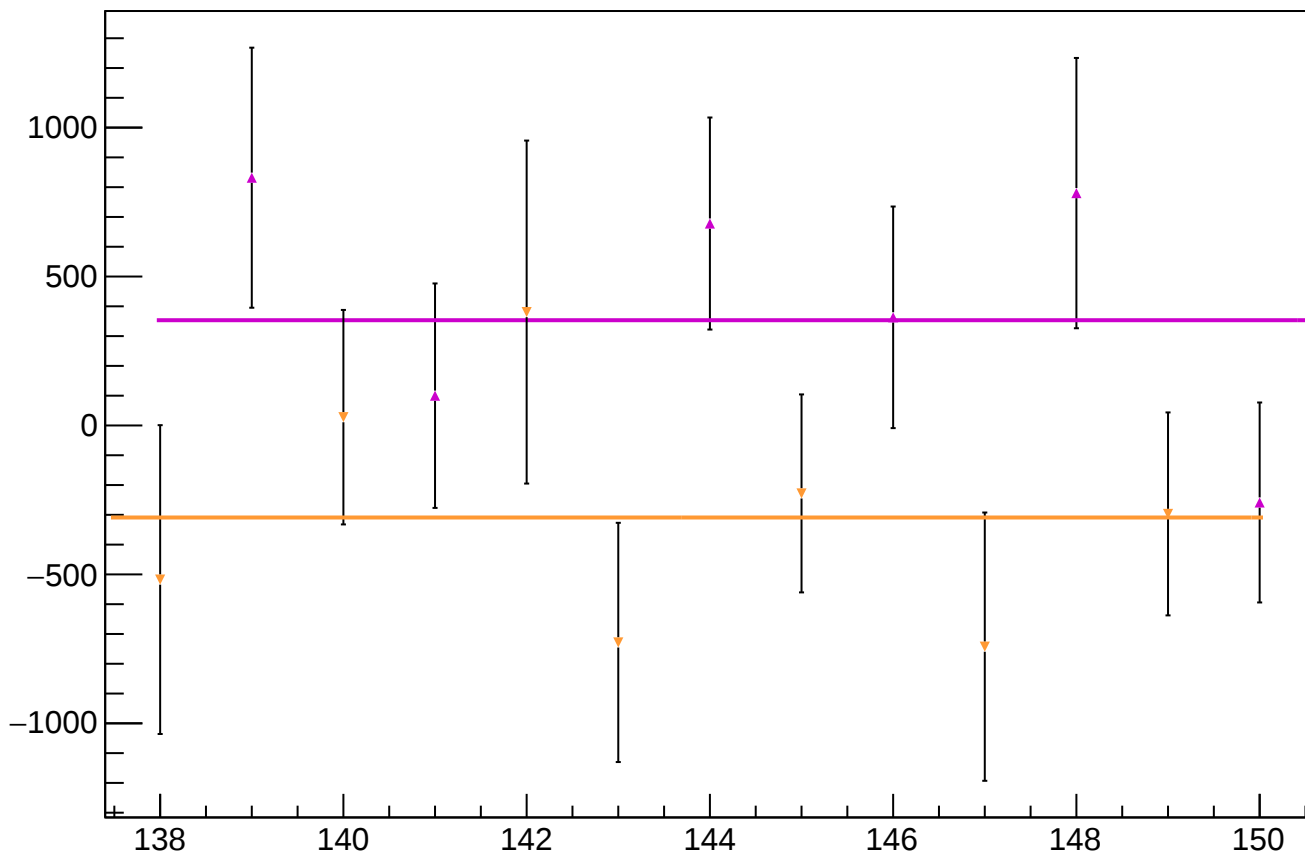
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 355.124+/-0.114  $\chi^2/\text{NDF}$ : 77989.9/5

Out: 348.145+/-0.110  $\chi^2/\text{NDF}$ : 205273.4/6

All: 351.539+/-0.079  $\chi^2/\text{NDF}$ : 285203.8/12

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: -308.970+/-152.050  $\chi^2/\text{NDF}$ : 4.5/6

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

Left In: 353.352+/-155.894  $\chi^2/\text{NDF}$ : 6.7/5

Left: 13.924+/-108.849  $\chi^2/\text{NDF}$ : 20.5/12

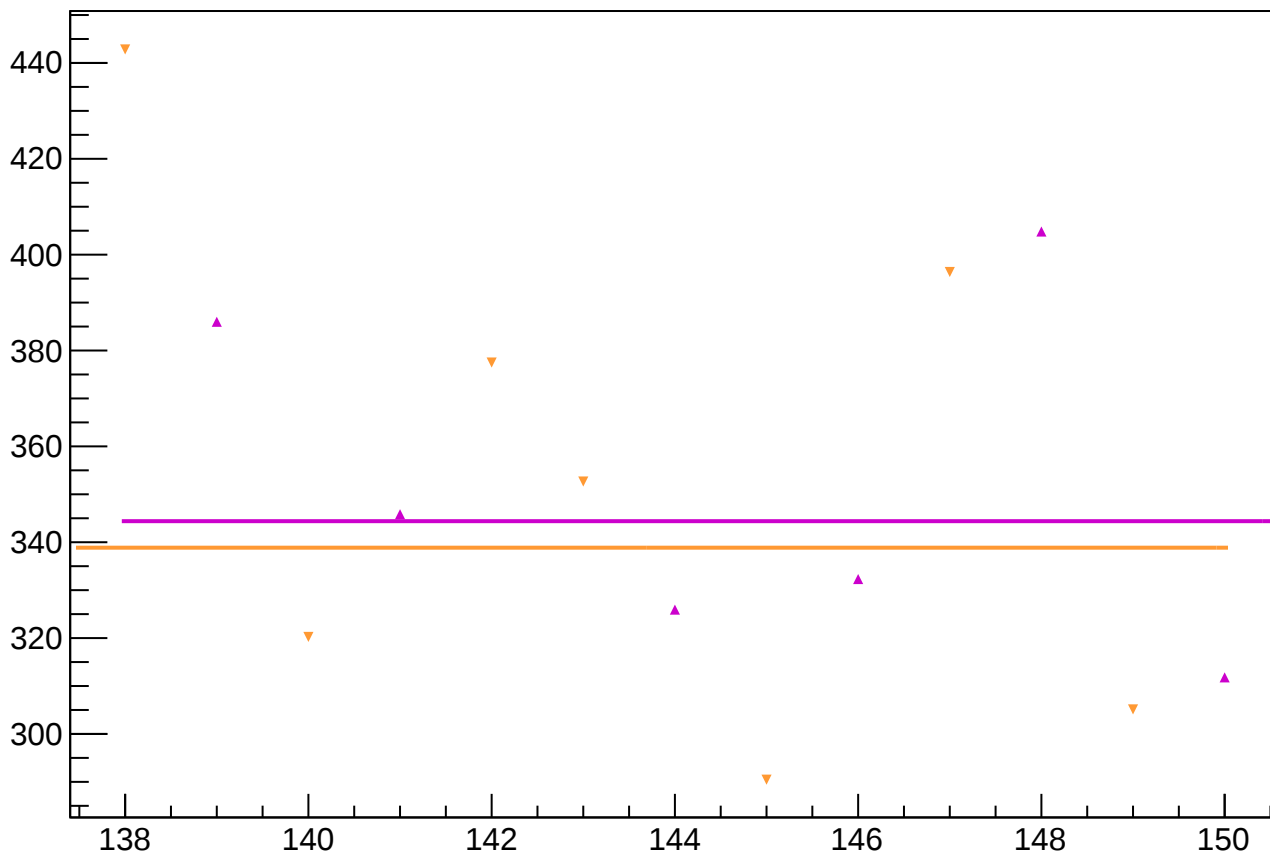
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 353.352+/-155.894  $\chi^2/\text{NDF}$ : 6.7/5

Out: -308.970+/-152.050  $\chi^2/\text{NDF}$ : 4.5/6

All: 13.924+/-108.849  $\chi^2/\text{NDF}$ : 20.5/12

# 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: 338.862+/-0.108  $\chi^2/\text{NDF}$ :191820.8/6

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

Left In: 344.393+/-0.110  $\chi^2/\text{NDF}$ :80017.9/5

Left: 341.558+/-0.077  $\chi^2/\text{NDF}$ : 273128.9/12

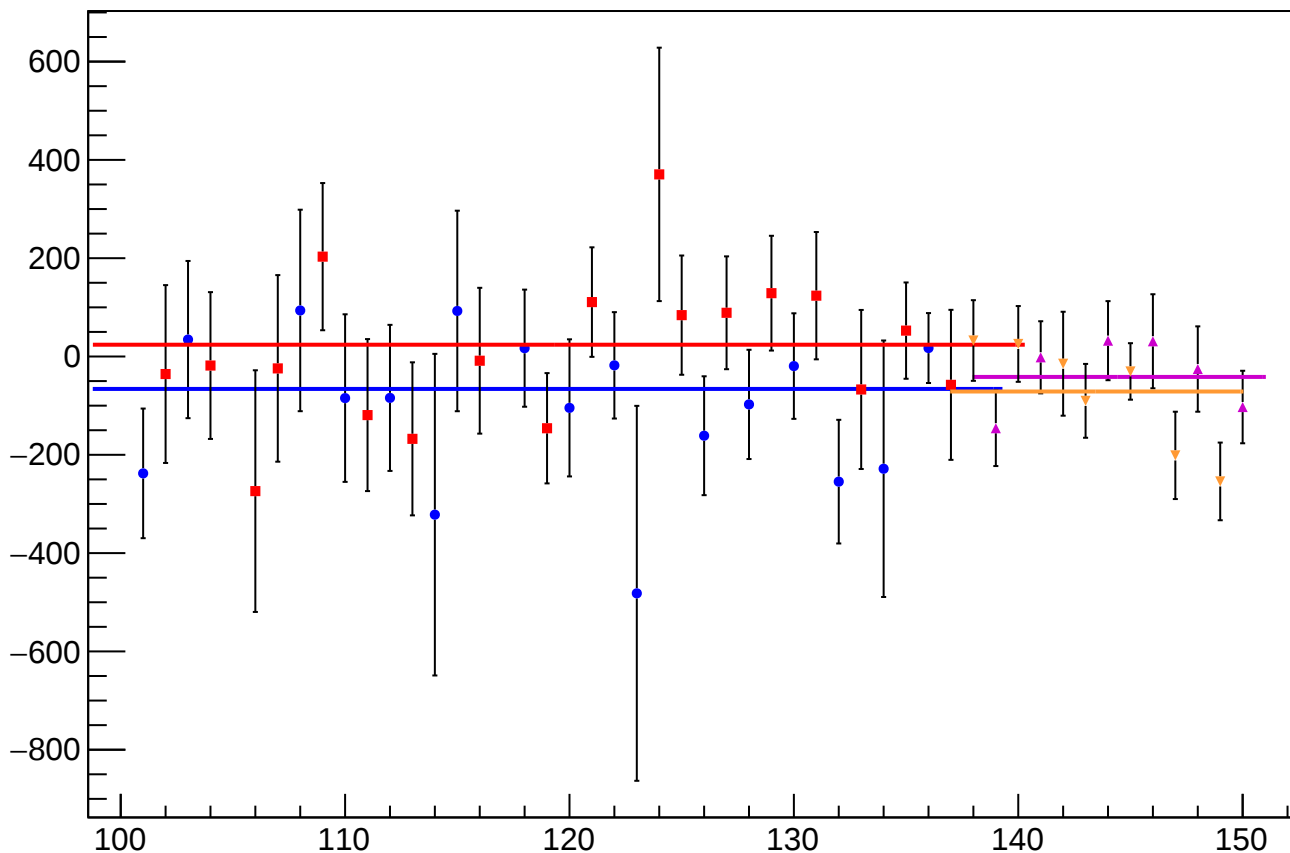
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 344.393+/-0.110  $\chi^2/\text{NDF}$ :80017.9/5

Out: 338.862+/-0.108  $\chi^2/\text{NDF}$ :191820.8/6

All: 341.558+/-0.077  $\chi^2/\text{NDF}$ : 273128.9/12

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:  $-71.215 \pm 29.194$   $\chi^2/\text{NDF}$ : 11.5/6

Right Out:  $23.979 \pm 32.790$   $\chi^2/\text{NDF}$ : 12.9/17

Left In:  $-41.542 \pm 32.710$   $\chi^2/\text{NDF}$ : 4.3/5

Left:  $-58.058 \pm 21.781$   $\chi^2/\text{NDF}$ : 16.3/12

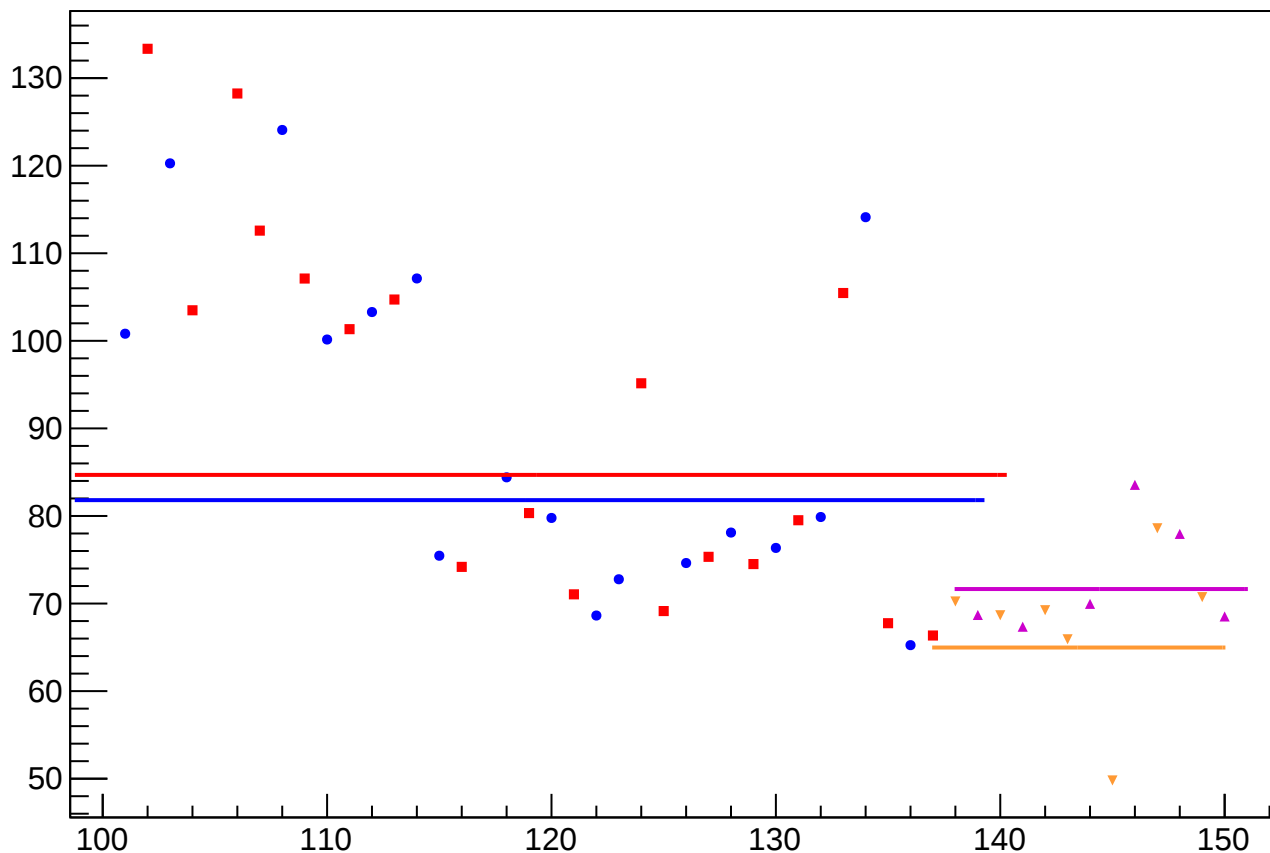
Right:  $-21.690 \pm 23.007$   $\chi^2/\text{NDF}$ : 27.5/34

In:  $-53.917 \pm 22.979$   $\chi^2/\text{NDF}$ : 15.3/22

Out:  $-29.121 \pm 21.804$   $\chi^2/\text{NDF}$ : 29.2/24

All:  $-40.869 \pm 15.817$   $\chi^2/\text{NDF}$ : 45.1/47

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: 64.978 $\pm$ 0.021  $\chi^2$ /NDF:213495.1/6

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

Left In: 71.657 $\pm$ 0.023  $\chi^2$ /NDF:55756.7/5

Left: 67.939 $\pm$ 0.015  $\chi^2$ /NDF: 315666.7/12

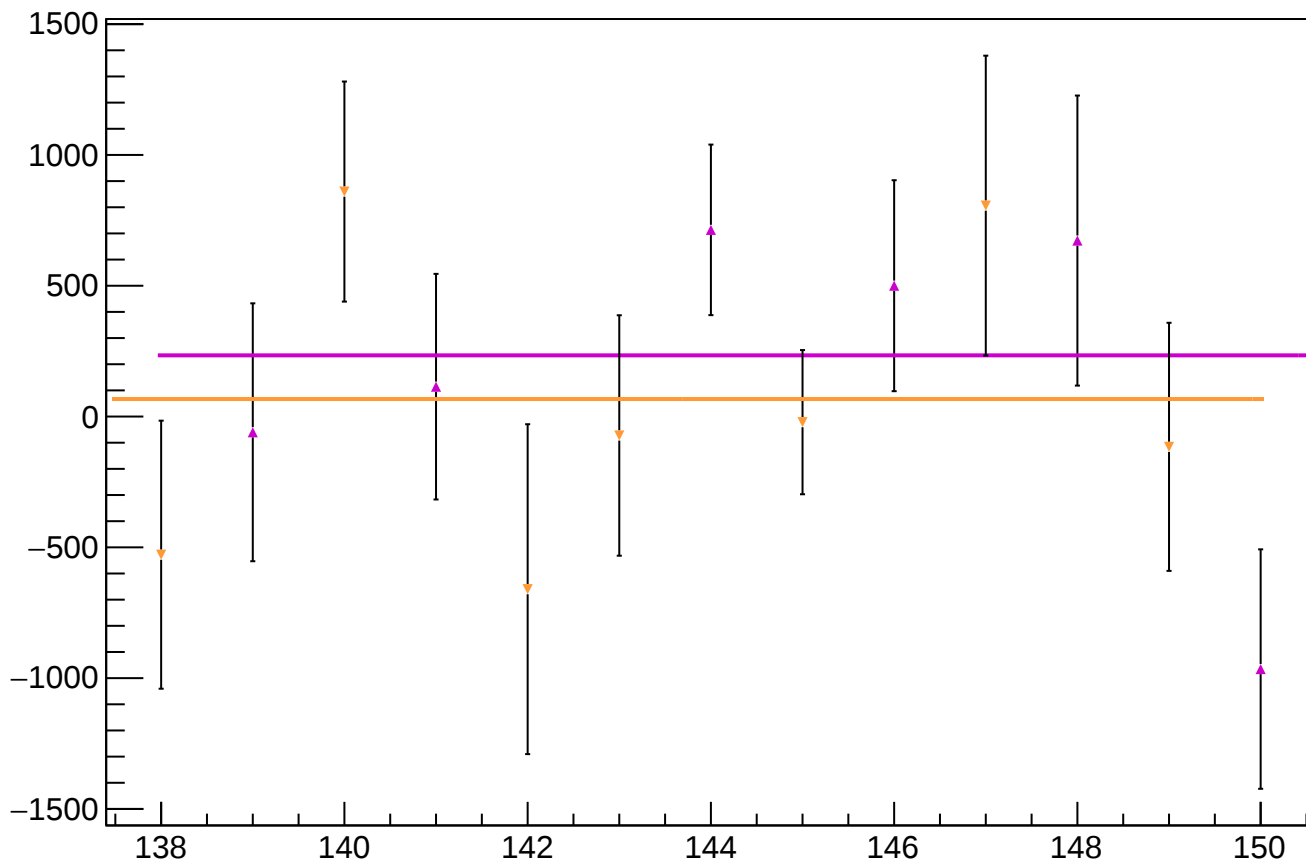
Right: 83.228 $\pm$ 0.016  $\chi^2$ /NDF: 1130968.2/34

In: 76.799 $\pm$ 0.016  $\chi^2$ /NDF:660517.3/22

Out: 73.695 $\pm$ 0.015  $\chi^2$ /NDF:1232645.6/24

All: 75.165 $\pm$ 0.011  $\chi^2$ /NDF: 1912365.2/47

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: 66.968+/-163.583  $\chi^2/\text{NDF}$ : 8.2/6

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

Left In: 233.911+/-173.858  $\chi^2/\text{NDF}$ : 10.5/5

Left: 145.361+/-119.138  $\chi^2/\text{NDF}$ : 19.3/12

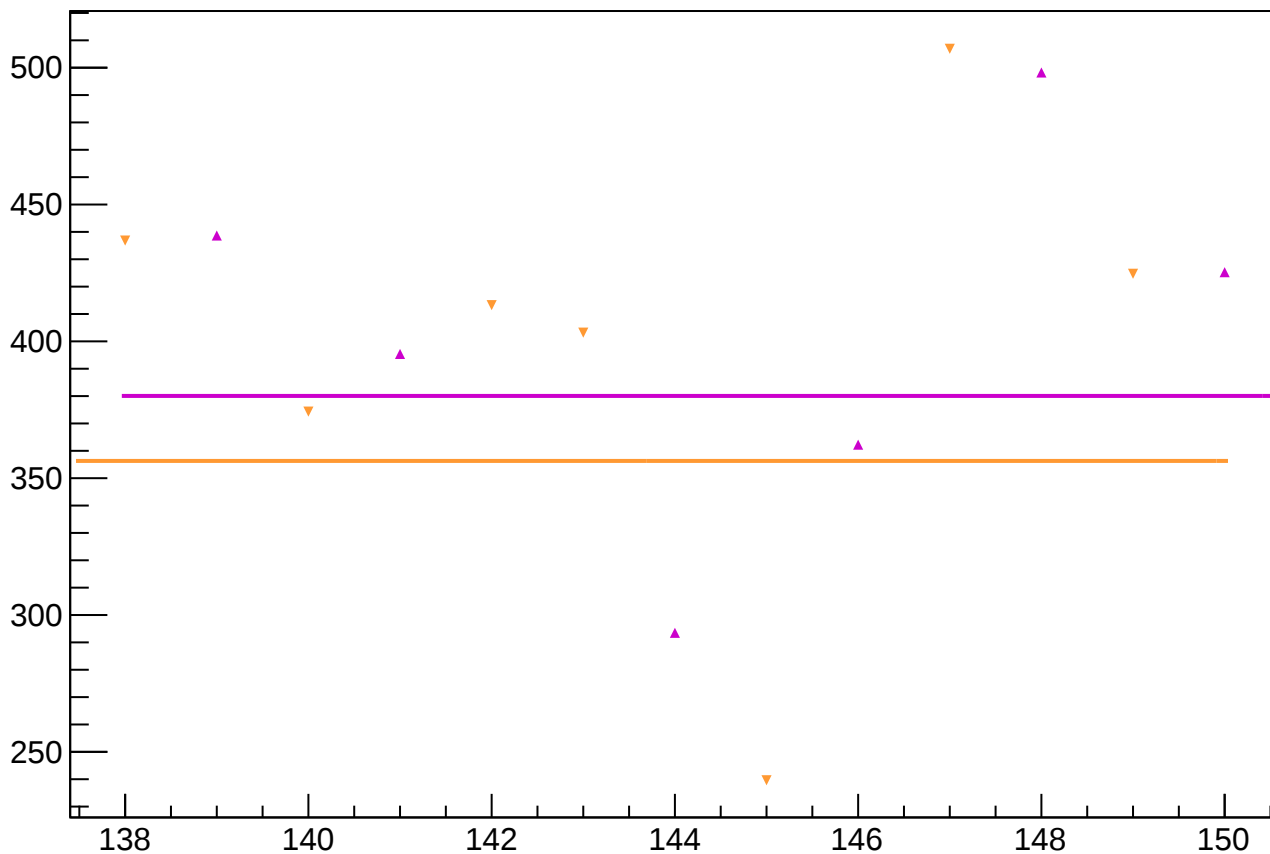
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 233.911+/-173.858  $\chi^2/\text{NDF}$ : 10.5/5

Out: 66.968+/-163.583  $\chi^2/\text{NDF}$ : 8.2/6

All: 145.361+/-119.138  $\chi^2/\text{NDF}$ : 19.3/12

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: 356.309+/-0.116  $\chi^2/\text{NDF}$ : 628476.9/6

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

Left In: 380.061+/-0.123  $\chi^2/\text{NDF}$ : 286156.4/5

Left: 367.462+/-0.084  $\chi^2/\text{NDF}$ : 934434.2/12

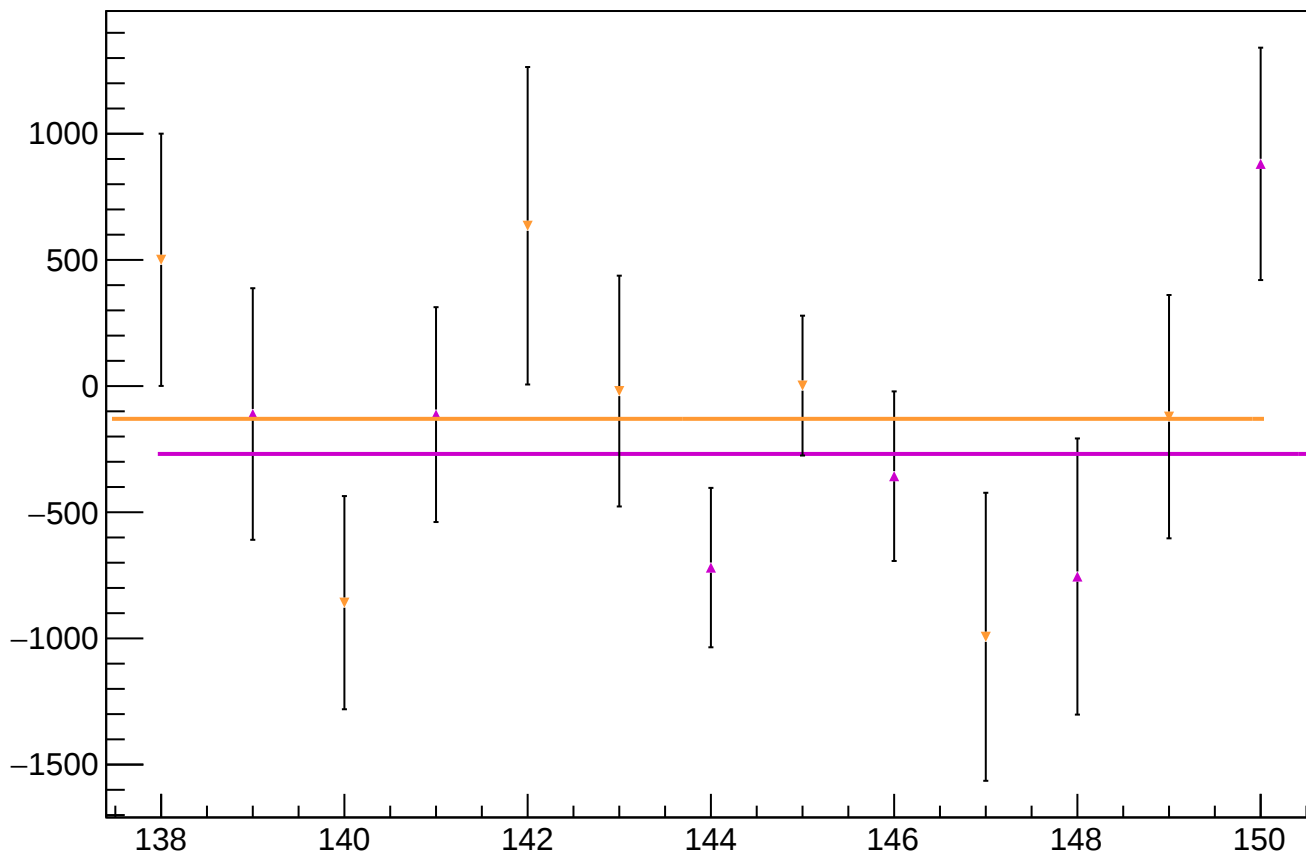
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 380.061+/-0.123  $\chi^2/\text{NDF}$ : 286156.4/5

Out: 356.309+/-0.116  $\chi^2/\text{NDF}$ : 628476.9/6

All: 367.462+/-0.084  $\chi^2/\text{NDF}$ : 934434.2/12

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: -129.809+/-163.722  $\chi^2/\text{NDF}$ : 8.6/6

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

Left In: -268.876+/-165.580  $\chi^2/\text{NDF}$ : 9.4/5

Left: -198.558+/-116.420  $\chi^2/\text{NDF}$ : 18.3/12

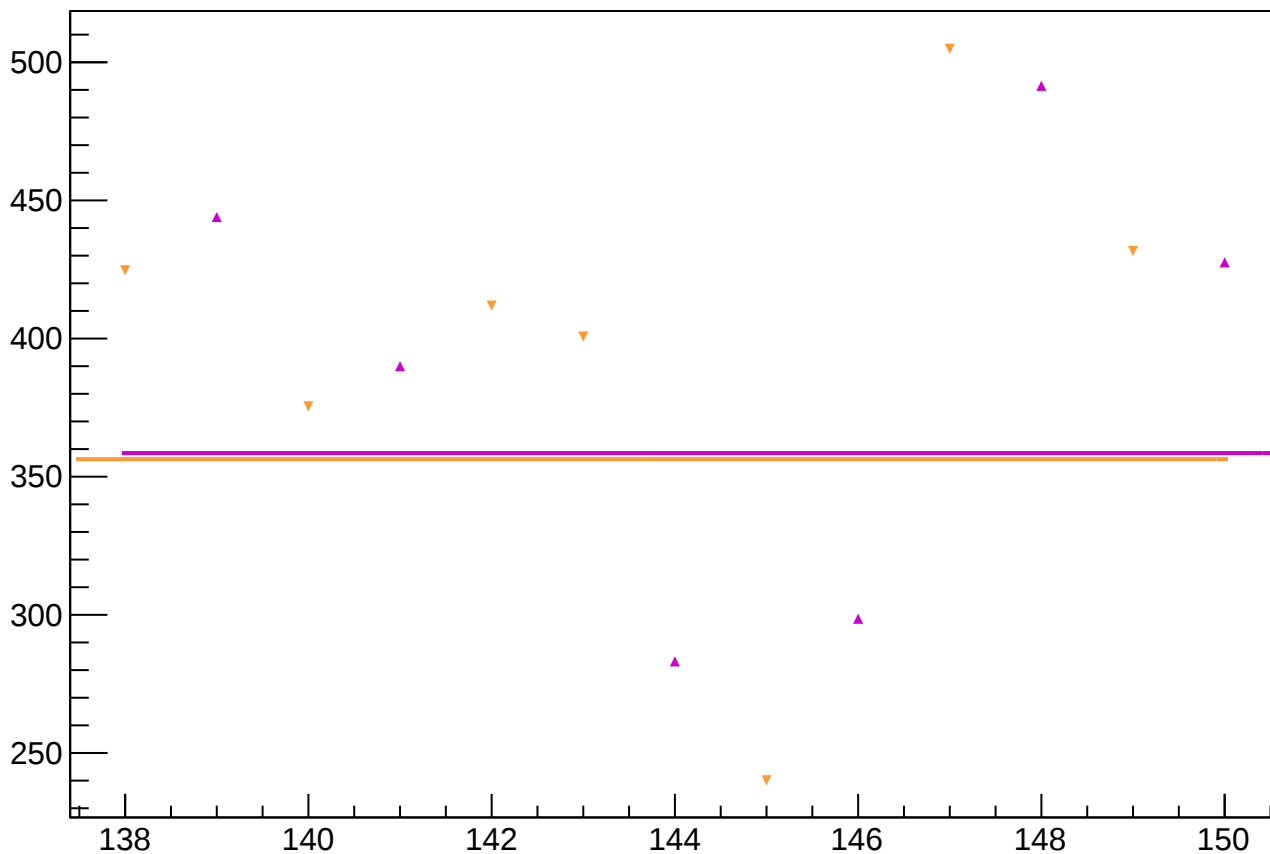
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -268.876+/-165.580  $\chi^2/\text{NDF}$ : 9.4/5

Out: -129.809+/-163.722  $\chi^2/\text{NDF}$ : 8.6/6

All: -198.558+/-116.420  $\chi^2/\text{NDF}$ : 18.3/12

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: 356.353+/-0.116  $\chi^2/\text{NDF}$ : 611993.4/6

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

Left In: 358.555+/-0.117  $\chi^2/\text{NDF}$ : 410209.5/5

Left: 357.442+/-0.082  $\chi^2/\text{NDF}$ : 1022381.7/12

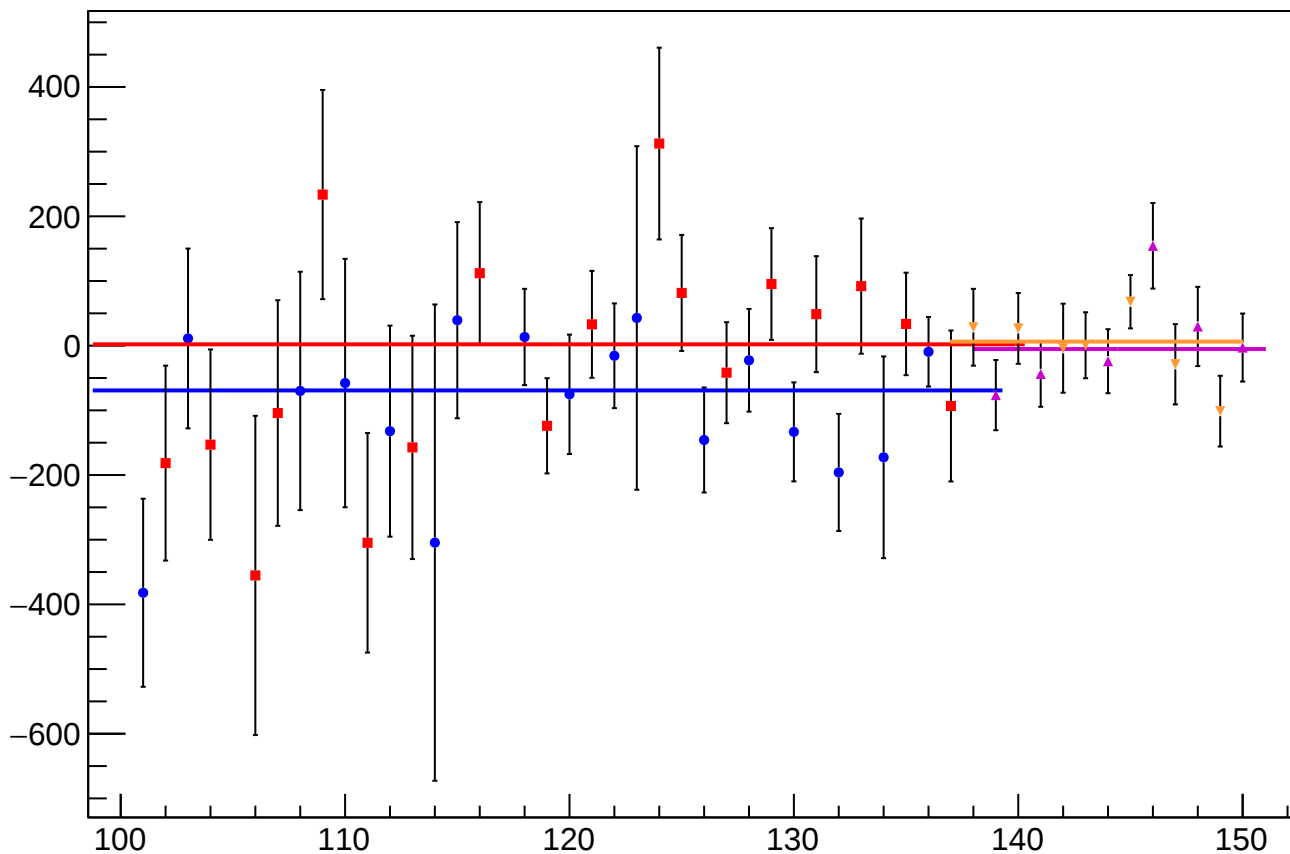
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 358.555+/-0.117  $\chi^2/\text{NDF}$ : 410209.5/5

Out: 356.353+/-0.116  $\chi^2/\text{NDF}$ : 611993.4/6

All: 357.442+/-0.082  $\chi^2/\text{NDF}$ : 1022381.7/12

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:  $6.298 \pm 20.434$   $\chi^2/\text{NDF}$ : 6.7/6

Right Out:  $2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

Left In:  $-5.236 \pm 22.413$   $\chi^2/\text{NDF}$ : 8.6/5

Left:  $1.063 \pm 15.100$   $\chi^2/\text{NDF}$ : 15.5/12

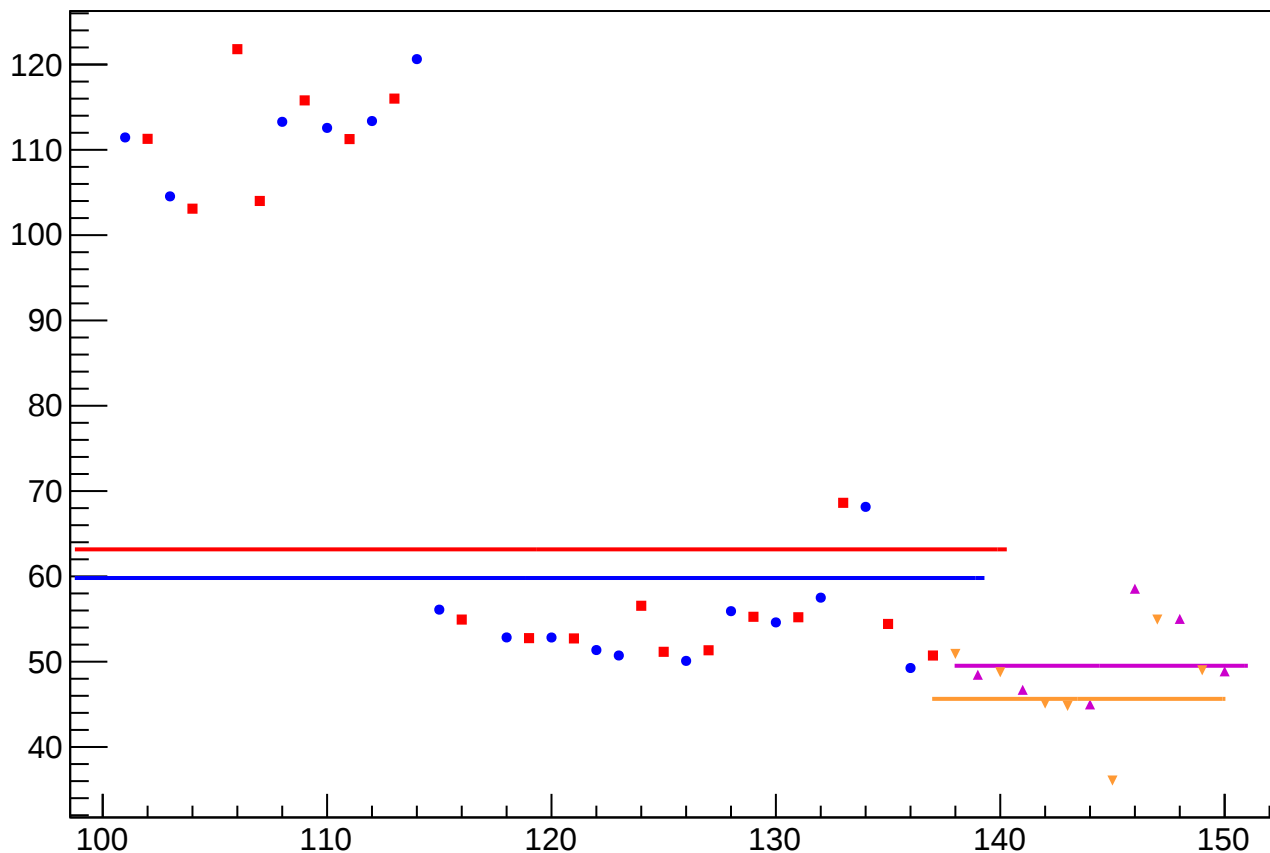
Right:  $-34.889 \pm 17.473$   $\chi^2/\text{NDF}$ : 41.4/34

In:  $-34.685 \pm 16.463$   $\chi^2/\text{NDF}$ : 25.8/22

Out:  $4.625 \pm 15.868$   $\chi^2/\text{NDF}$ : 30.5/24

All:  $-14.308 \pm 11.425$   $\chi^2/\text{NDF}$ : 59.3/47

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 59.809 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 1229983.3/16

Left Out: 45.642 $\pm$ 0.014  $\chi^2/\text{NDF}$ :182915.1/6

Right Out: 63.166 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1387305.6/17

Left In: 49.522 $\pm$ 0.016  $\chi^2/\text{NDF}$ :77298.9/5

Left: 47.403 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 292941.6/12

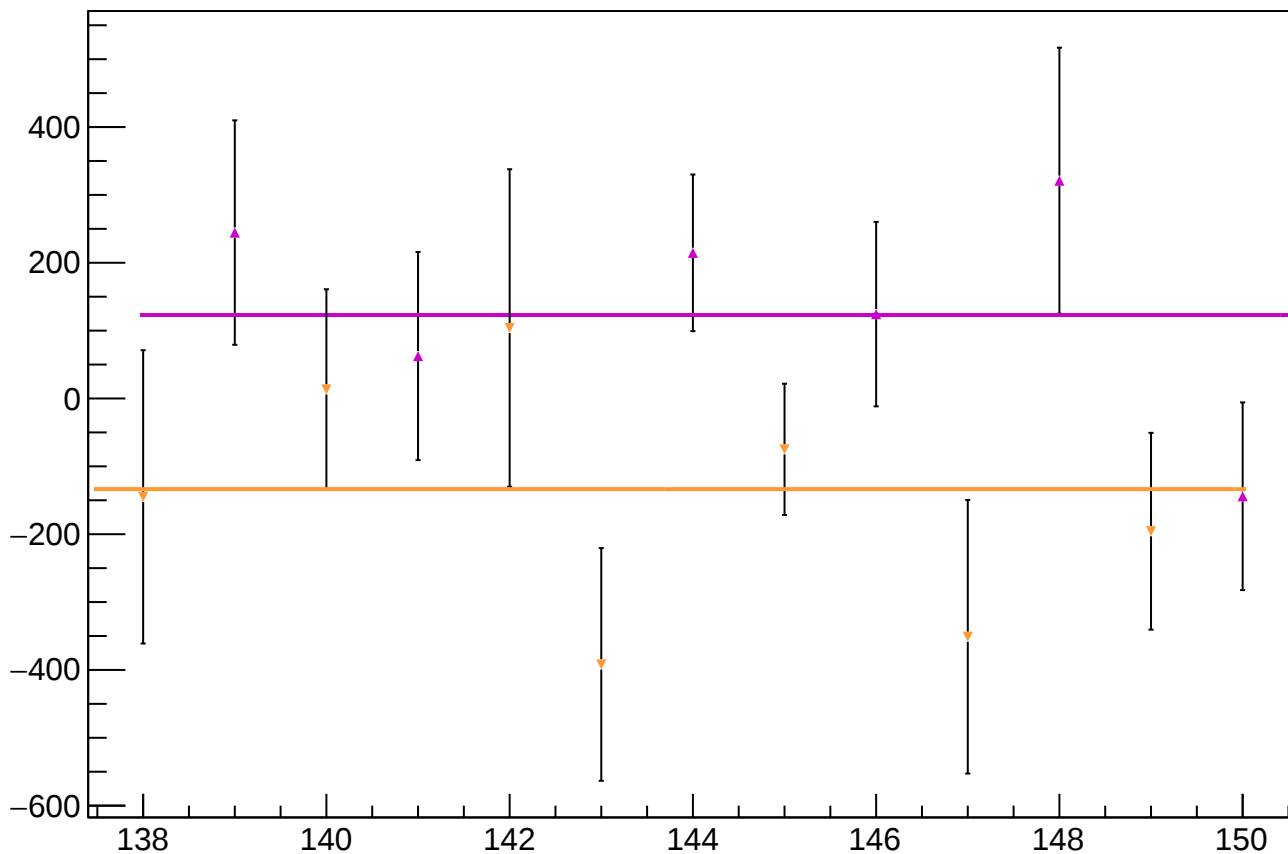
Right: 61.424 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 2635717.1/34

In: 54.259 $\pm$ 0.012  $\chi^2/\text{NDF}$ :1501287.7/22

Out: 52.598 $\pm$ 0.011  $\chi^2/\text{NDF}$ :2154054.9/24

All: 53.398 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 3665897.7/47

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: -133.571+/-57.870  $\chi^2/\text{NDF}$ : 6.0/6

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

Left In: 123.007+/-59.064  $\chi^2/\text{NDF}$ : 6.1/5

Left: -7.900+/-41.336  $\chi^2/\text{NDF}$ : 21.7/12

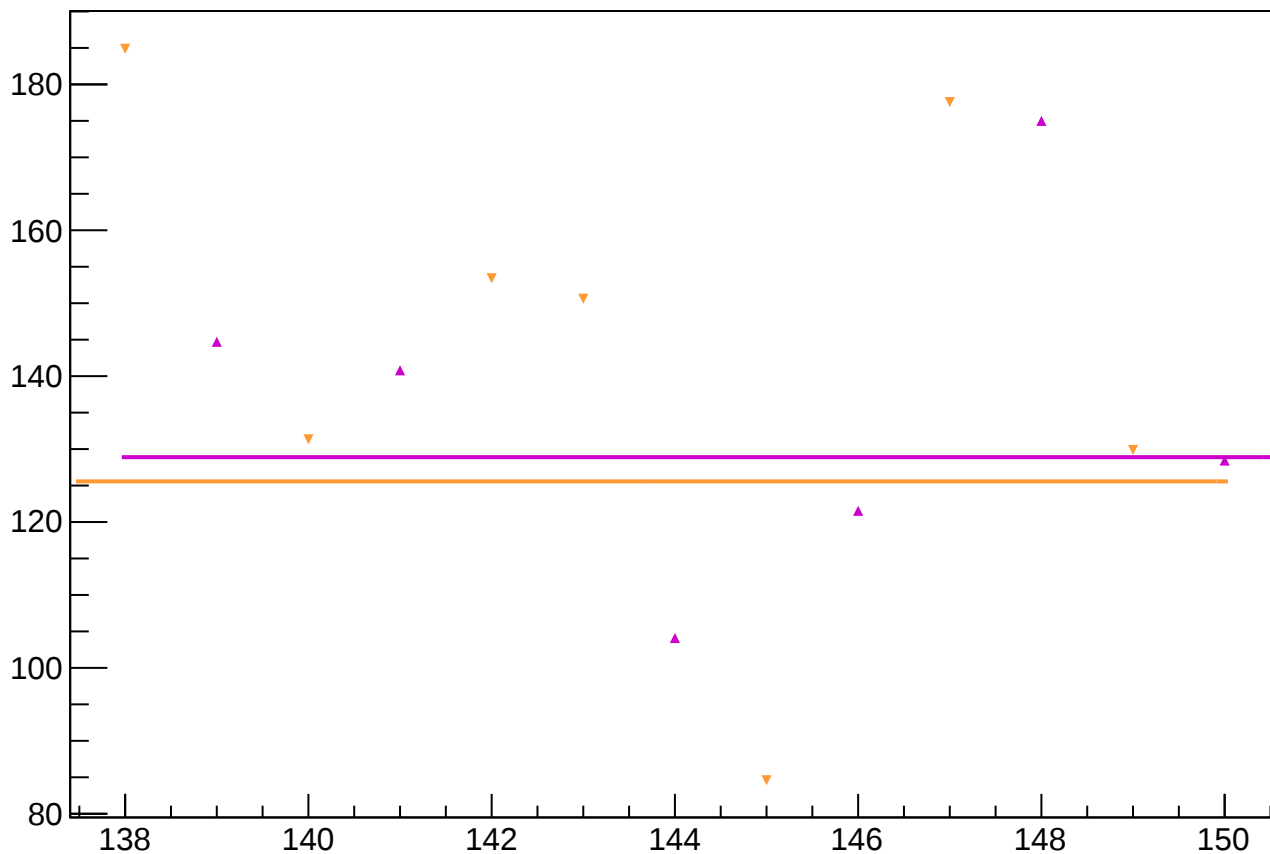
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 123.007+/-59.064  $\chi^2/\text{NDF}$ : 6.1/5

Out: -133.571+/-57.870  $\chi^2/\text{NDF}$ : 6.0/6

All: -7.900+/-41.336  $\chi^2/\text{NDF}$ : 21.7/12

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: 125.570+/-0.041  $\chi^2/\text{NDF}$ : 718591.5/6

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

Left In: 128.893+/-0.042  $\chi^2/\text{NDF}$ : 239183.7/5

Left: 127.197+/-0.029  $\chi^2/\text{NDF}$ : 961006.1/12

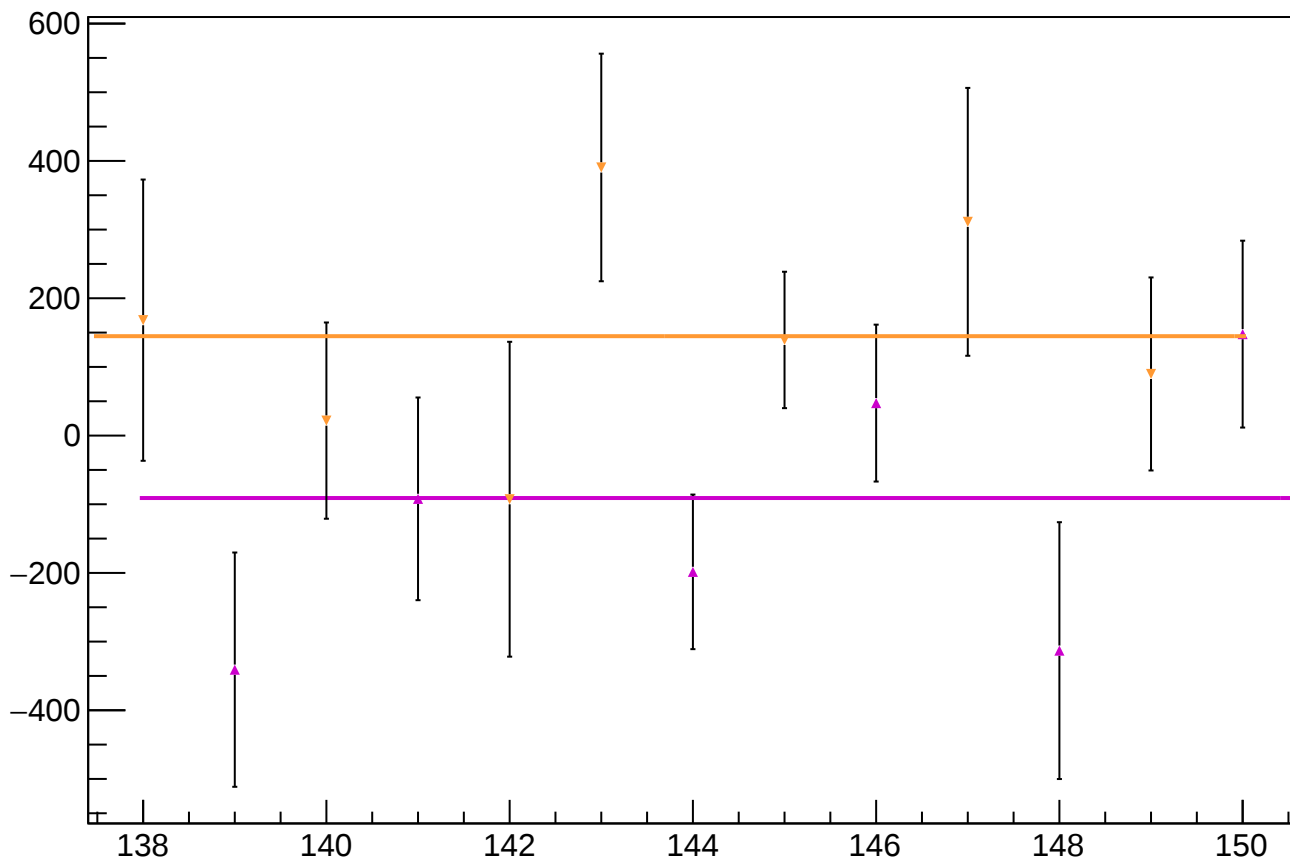
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 128.893+/-0.042  $\chi^2/\text{NDF}$ : 239183.7/5

Out: 125.570+/-0.041  $\chi^2/\text{NDF}$ : 718591.5/6

All: 127.197+/-0.029  $\chi^2/\text{NDF}$ : 961006.1/12

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 144.772+/-57.118  $\chi^2/\text{NDF}$ :4.9/6

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

Left In: -90.925+/-56.039  $\chi^2/\text{NDF}$ :9.0/5

Left: 24.678+/-40.002  $\chi^2/\text{NDF}$ : 22.6/12

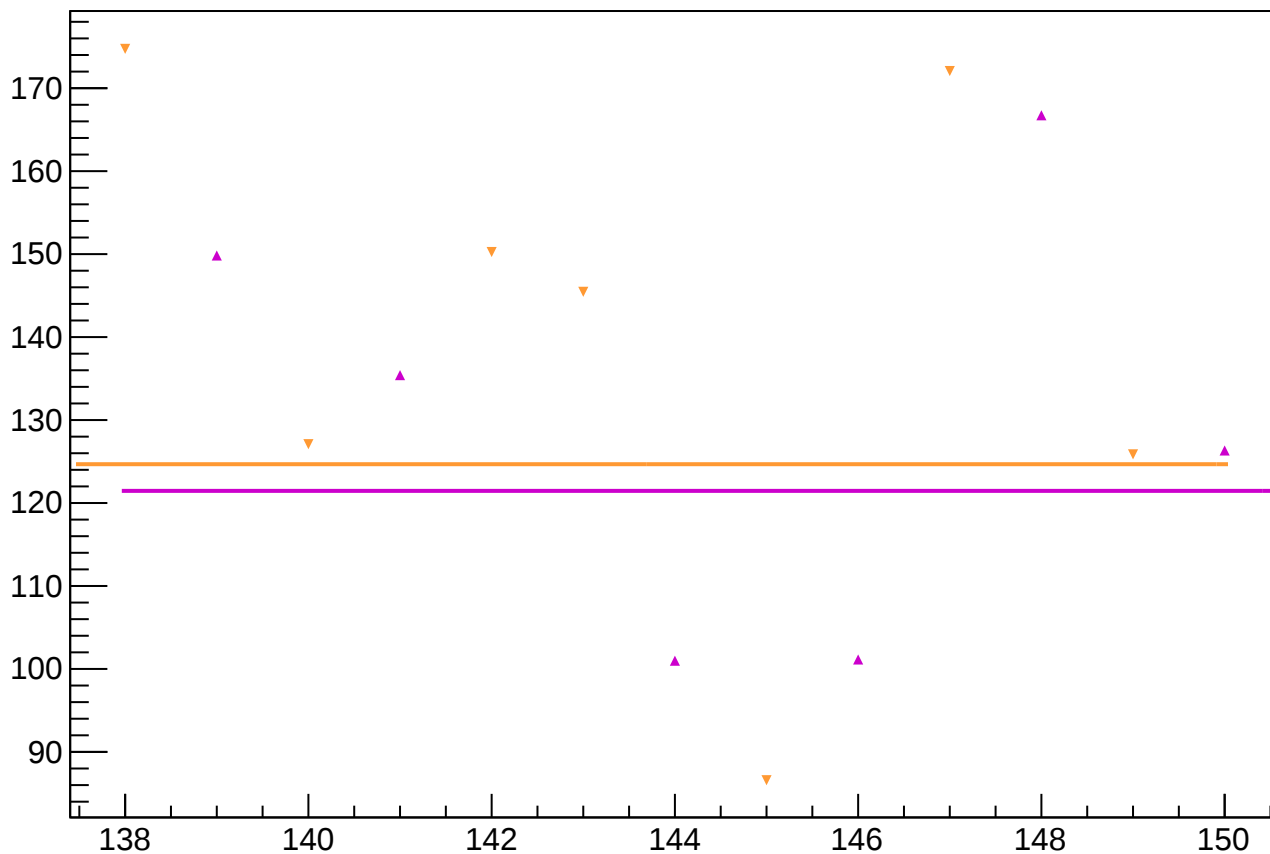
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -90.925+/-56.039  $\chi^2/\text{NDF}$ :9.0/5

Out: 144.772+/-57.118  $\chi^2/\text{NDF}$ :4.9/6

All: 24.678+/-40.002  $\chi^2/\text{NDF}$ : 22.6/12

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: 124.678+/-0.040  $\chi^2/\text{NDF}$ :588751.7/6

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

Left In: 121.463+/-0.040  $\chi^2/\text{NDF}$ :322381.6/5

Left: 123.040+/-0.028  $\chi^2/\text{NDF}$ : 914361.0/12

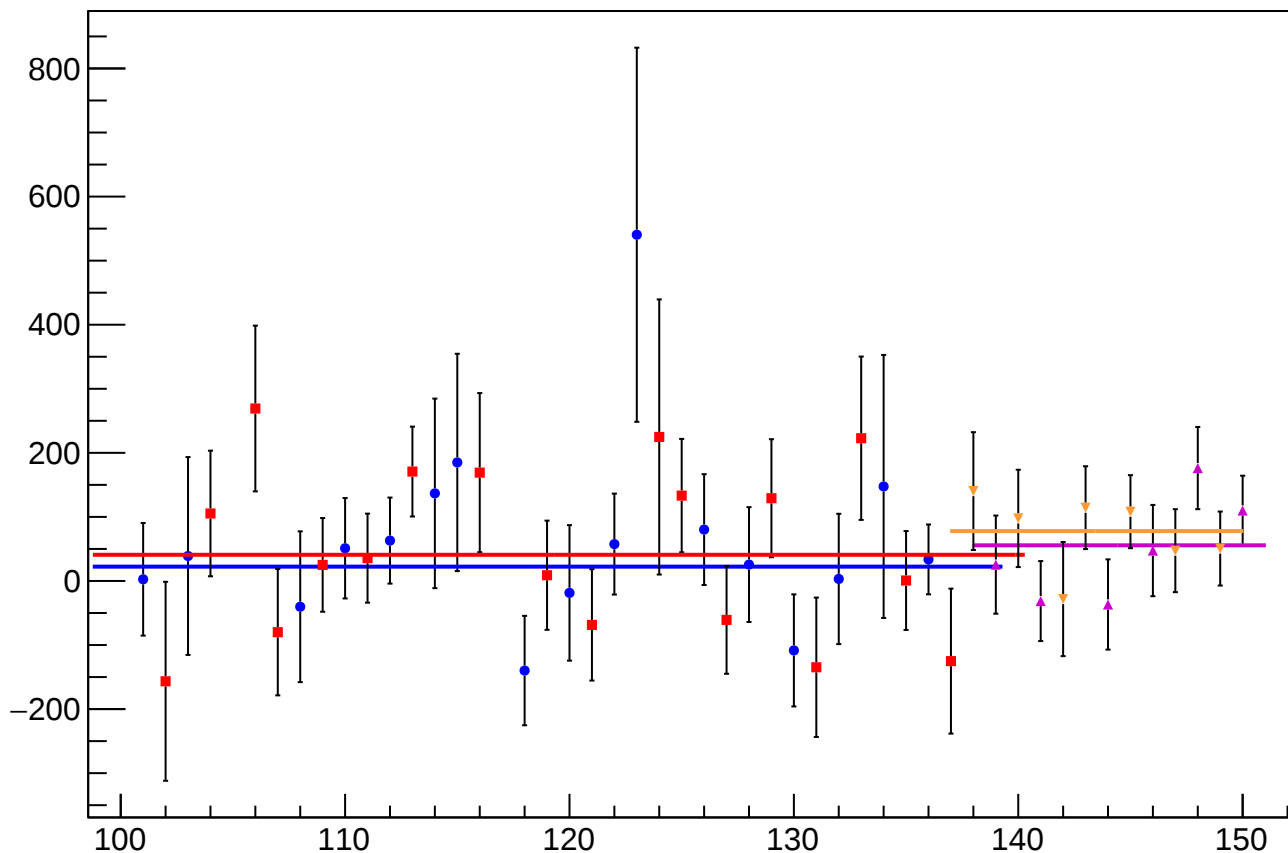
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 121.463+/-0.040  $\chi^2/\text{NDF}$ :322381.6/5

Out: 124.678+/-0.040  $\chi^2/\text{NDF}$ :588751.7/6

All: 123.040+/-0.028  $\chi^2/\text{NDF}$ : 914361.0/12

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 22.361 $\pm$ 22.625  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 77.891 $\pm$ 25.794  $\chi^2/\text{NDF}$ : 3.0/6

Right Out: 40.867 $\pm$ 22.136  $\chi^2/\text{NDF}$ : 24.2/17

Left In: 55.664 $\pm$ 26.656  $\chi^2/\text{NDF}$ : 8.4/5

Left: 67.142 $\pm$ 18.536  $\chi^2/\text{NDF}$ : 11.7/12

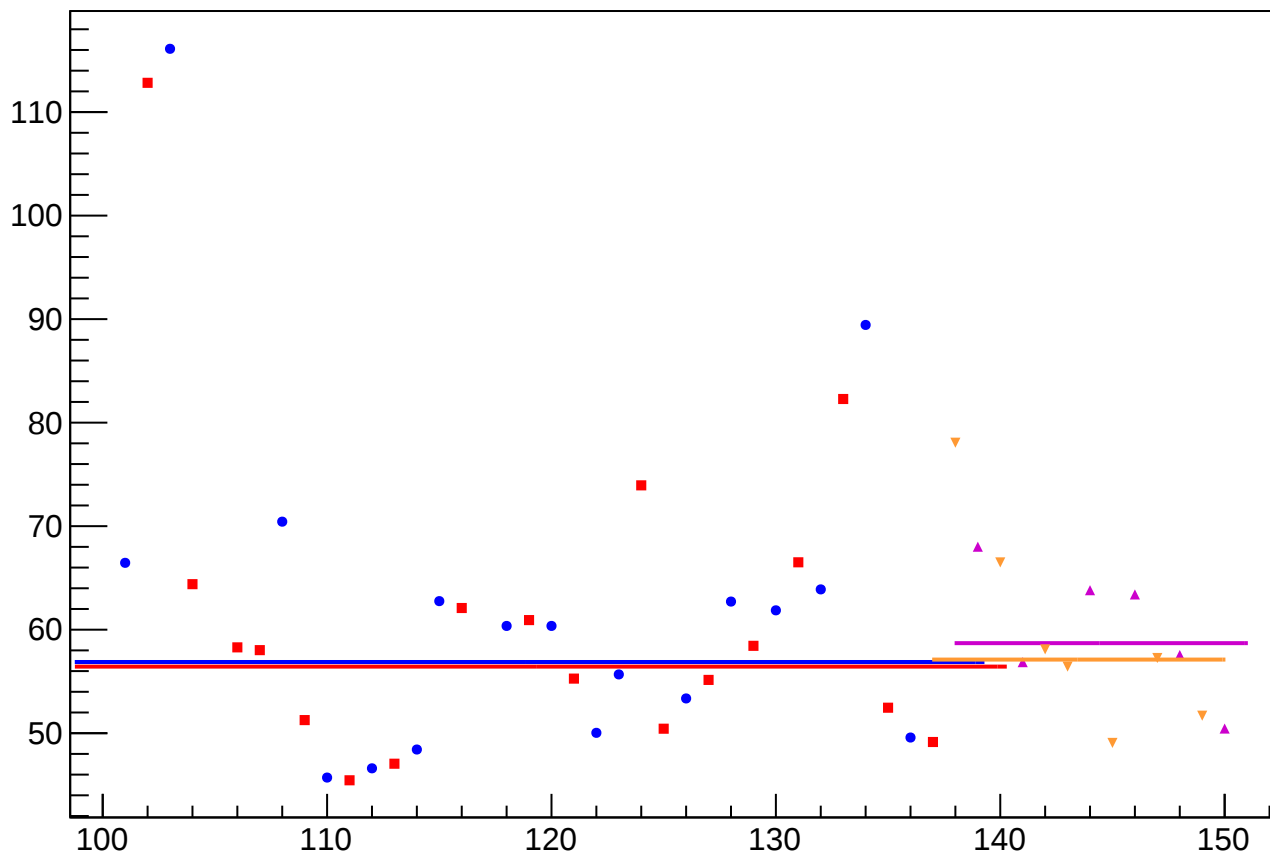
Right: 31.816 $\pm$ 15.823  $\chi^2/\text{NDF}$ : 37.1/34

In: 36.307 $\pm$ 17.249  $\chi^2/\text{NDF}$ : 21.9/22

Out: 56.570 $\pm$ 16.798  $\chi^2/\text{NDF}$ : 28.4/24

All: 46.706 $\pm$ 12.034  $\chi^2/\text{NDF}$ : 51.0/47

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 56.879+/-0.016  $\chi^2/\text{NDF}$ : 575487.1/16

Left Out: 57.112+/-0.018  $\chi^2/\text{NDF}$ : 192297.8/6

Right Out: 56.434+/-0.016  $\chi^2/\text{NDF}$ : 520456.9/17

Left In: 58.699+/-0.019  $\chi^2/\text{NDF}$ : 97356.6/5

Left: 57.880+/-0.013  $\chi^2/\text{NDF}$ : 293315.2/12

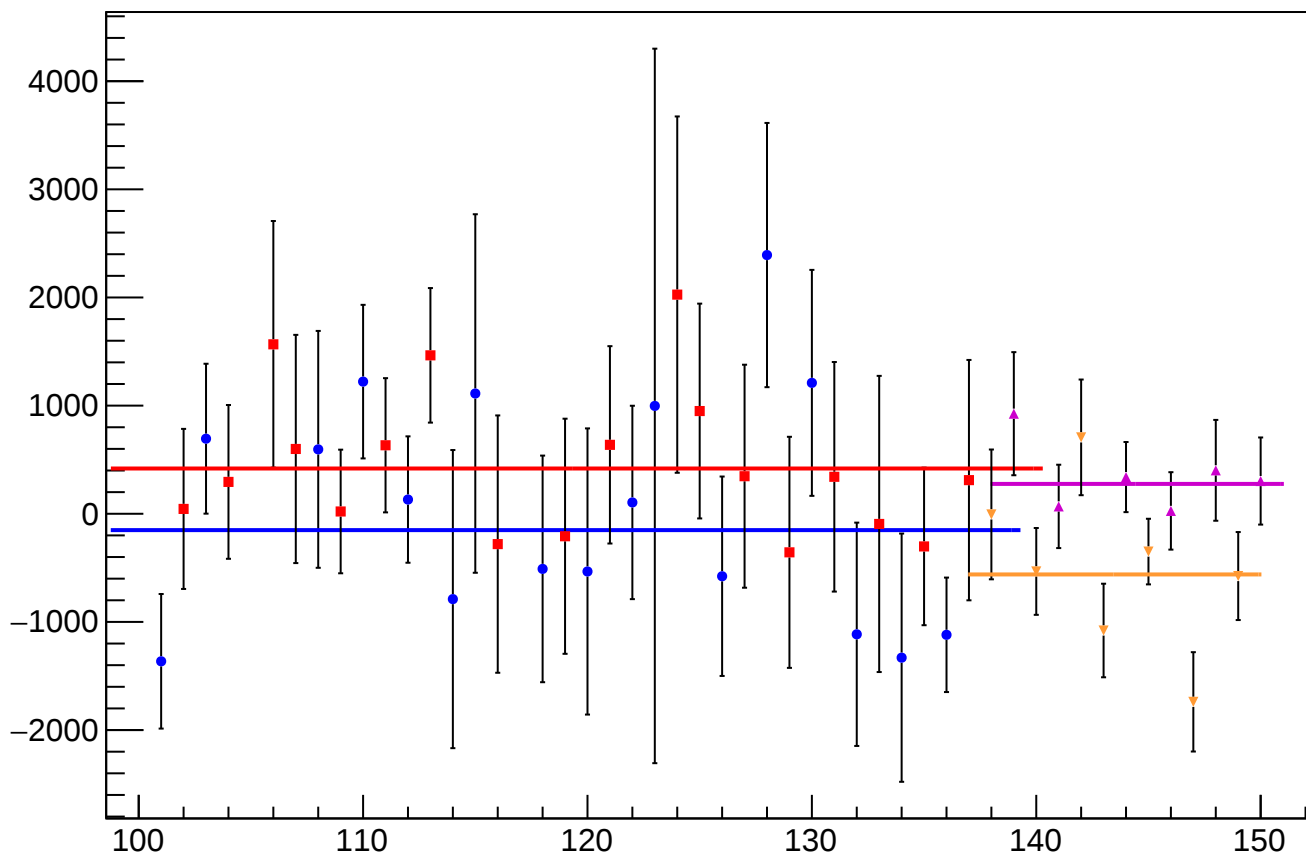
Right: 56.652+/-0.011  $\chi^2/\text{NDF}$ : 1096338.8/34

In: 57.641+/-0.012  $\chi^2/\text{NDF}$ : 678266.1/22

Out: 56.722+/-0.012  $\chi^2/\text{NDF}$ : 713551.1/24

All: 57.169+/-0.009  $\chi^2/\text{NDF}$ : 1394733.3/47

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:  $-561.038 \pm 159.179$   $\chi^2/\text{NDF}: 15.0/6$

Right Out:  $418.554 \pm 205.061$   $\chi^2/\text{NDF}: 8.4/17$

Left In:  $276.082 \pm 162.430$   $\chi^2/\text{NDF}: 2.2/5$

Left:  $-150.940 \pm 113.688$   $\chi^2/\text{NDF}: 30.7/12$

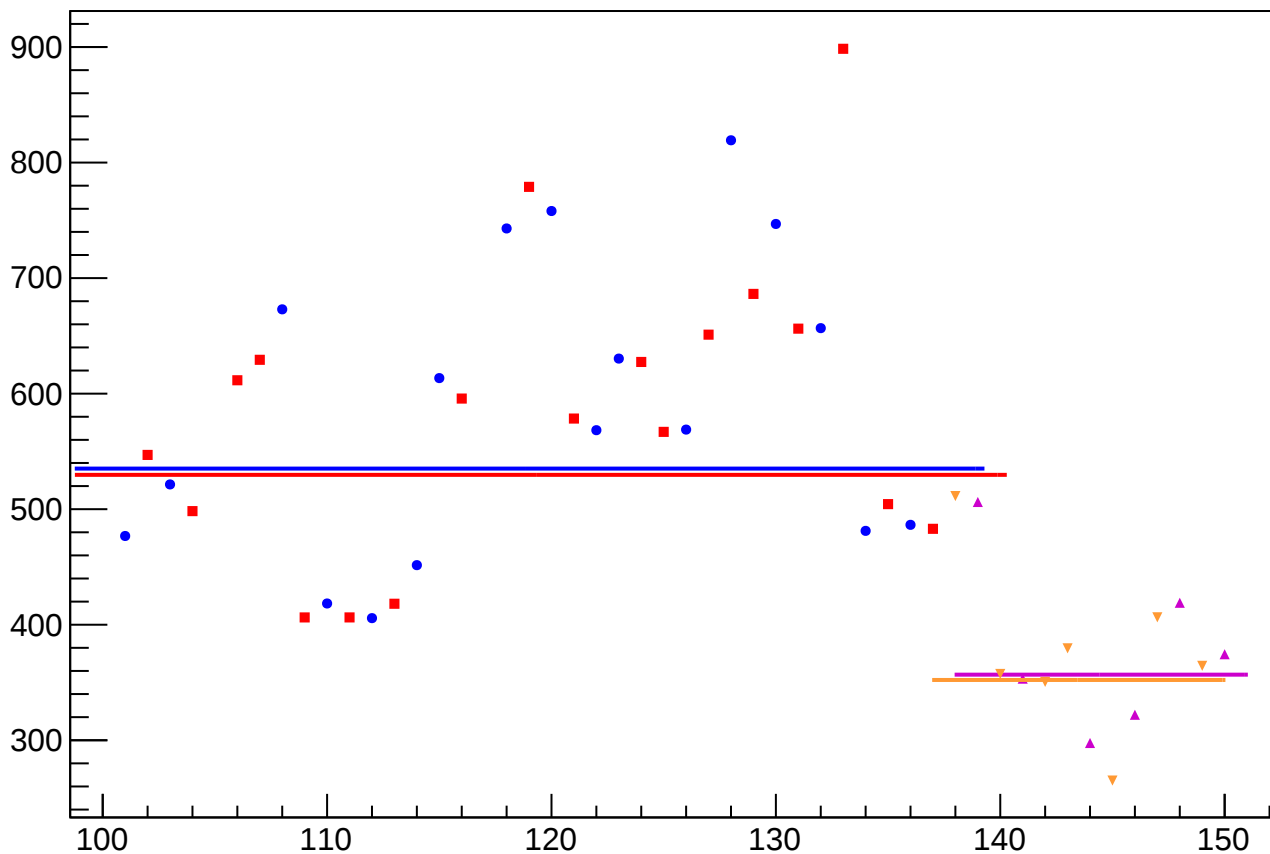
Right:  $143.757 \pm 147.542$   $\chi^2/\text{NDF}: 34.6/34$

In:  $118.456 \pm 129.036$   $\chi^2/\text{NDF}: 27.2/22$

Out:  $-192.711 \pm 125.741$   $\chi^2/\text{NDF}: 37.6/24$

All:  $-41.152 \pm 90.055$   $\chi^2/\text{NDF}: 67.8/47$

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 535.137 $\pm$ 0.150  $\chi^2/\text{NDF}$ : 596084.8/16

Left Out: 352.187 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 343469.5/6

Right Out: 529.720 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 646725.7/17

Left In: 356.779 $\pm$ 0.115  $\chi^2/\text{NDF}$ : 262956.7/5

Left: 354.437 $\pm$ 0.080  $\chi^2/\text{NDF}$ : 607241.6/12

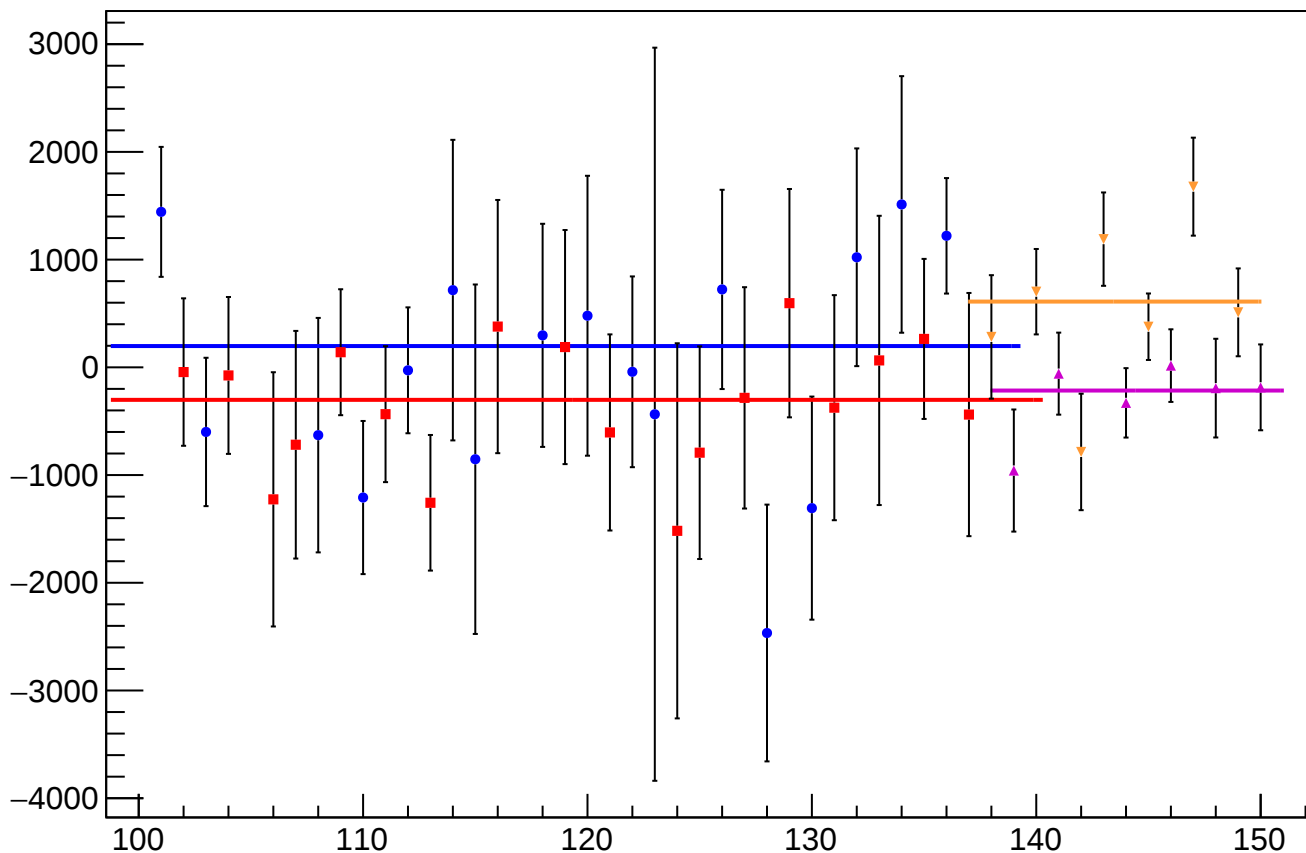
Right: 532.333 $\pm$ 0.104  $\chi^2/\text{NDF}$ : 1243483.8/34

In: 422.577 $\pm$ 0.091  $\chi^2/\text{NDF}$ : 1748660.6/22

Out: 418.939 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 1925609.4/24

All: 420.711 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 3675085.4/47

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 197.561+/-211.480  $\chi^2/\text{NDF}$ : 23.9/16

Left Out: 610.427+/-159.110  $\chi^2/\text{NDF}$ :15.0/6

Right Out: -301.856+/-205.700  $\chi^2/\text{NDF}$ : 6.7/17

Left In: -215.411+/-159.086  $\chi^2/\text{NDF}$ :2.5/5

Left: 197.446+/-112.499  $\chi^2/\text{NDF}$ : 30.9/12

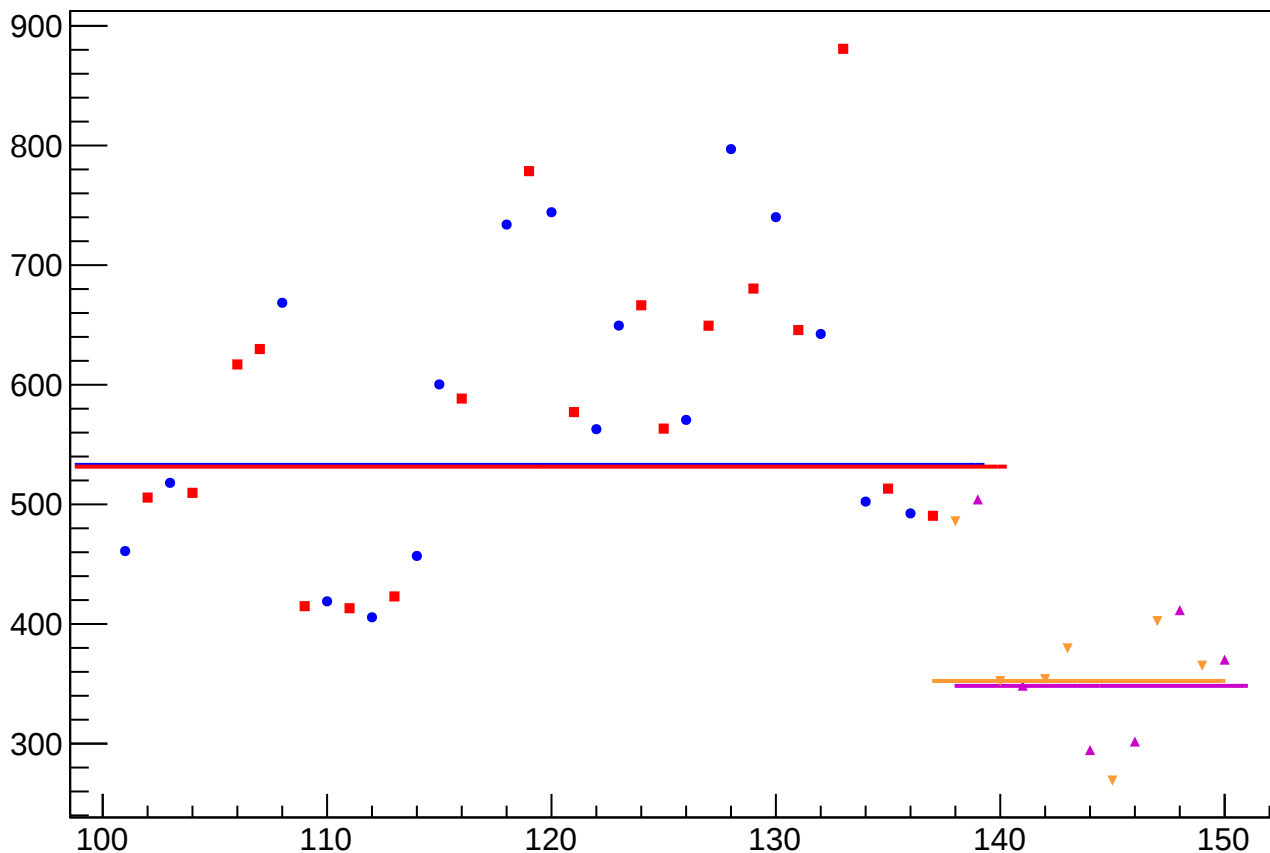
Right: -59.066+/-147.453  $\chi^2/\text{NDF}$ : 33.5/34

In: -66.170+/-127.131  $\chi^2/\text{NDF}$ :28.9/22

Out: 268.923+/-125.854  $\chi^2/\text{NDF}$ :34.0/24

All: 103.068+/-89.440  $\chi^2/\text{NDF}$ : 66.3/47

# asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 533.031 $\pm$ 0.150  $\chi^2$ /NDF: 566851.1/16

Left Out: 352.376 $\pm$ 0.113  $\chi^2$ /NDF: 287994.1/6

Right Out: 531.559 $\pm$ 0.145  $\chi^2$ /NDF: 597920.9/17

Left In: 348.287 $\pm$ 0.112  $\chi^2$ /NDF: 289059.3/5

Left: 350.331 $\pm$ 0.080  $\chi^2$ /NDF: 577714.0/12

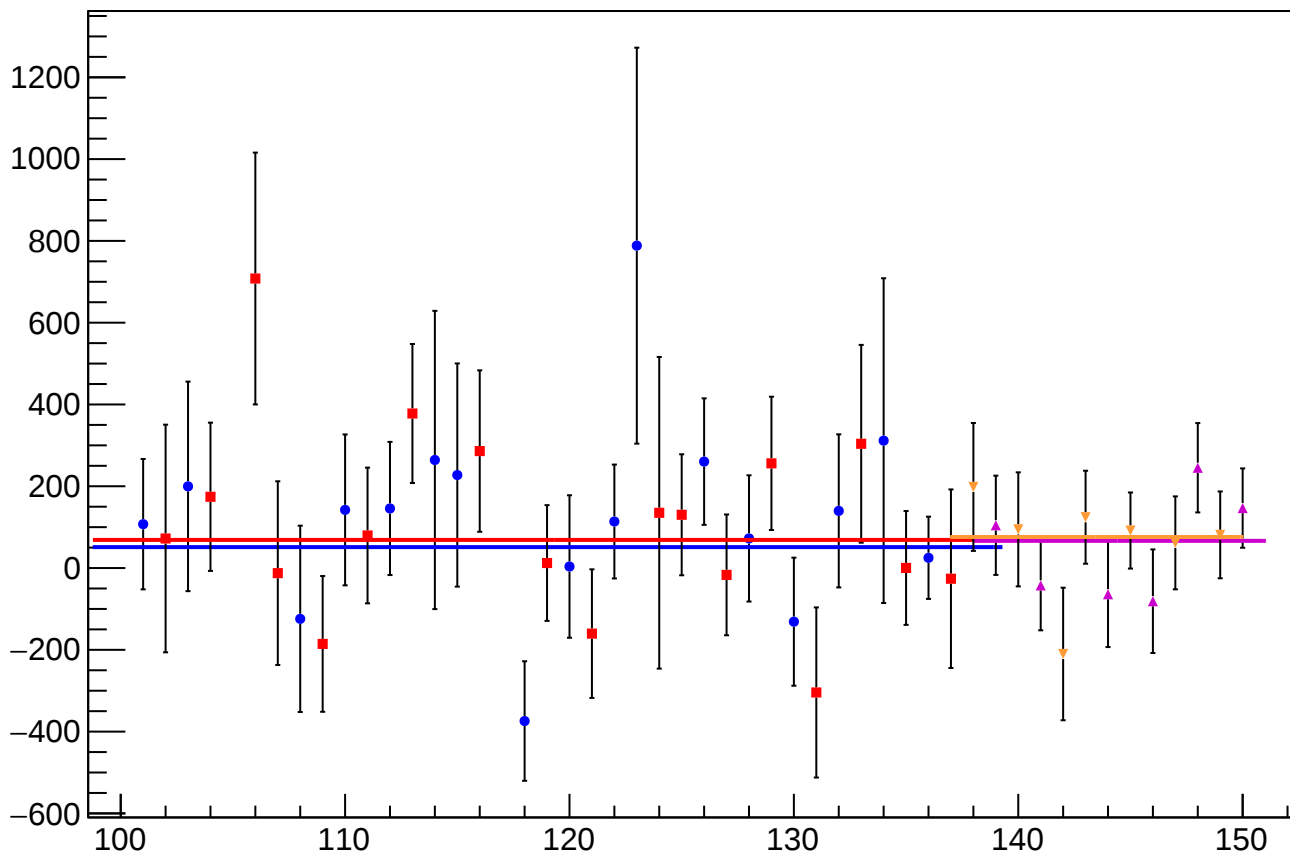
Right: 532.275 $\pm$ 0.104  $\chi^2$ /NDF: 1164821.8/34

In: 415.051 $\pm$ 0.090  $\chi^2$ /NDF: 1830619.1/22

Out: 419.452 $\pm$ 0.089  $\chi^2$ /NDF: 1835410.7/24

All: 417.273 $\pm$ 0.063  $\chi^2$ /NDF: 3667240.3/47

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: 75.917 $\pm$ 45.197  $\chi^2$ /NDF: 4.0/6

Right Out: 68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

Left In: 66.497 $\pm$ 46.466  $\chi^2$ /NDF: 6.8/5

Left: 71.337 $\pm$ 32.398  $\chi^2$ /NDF: 10.8/12

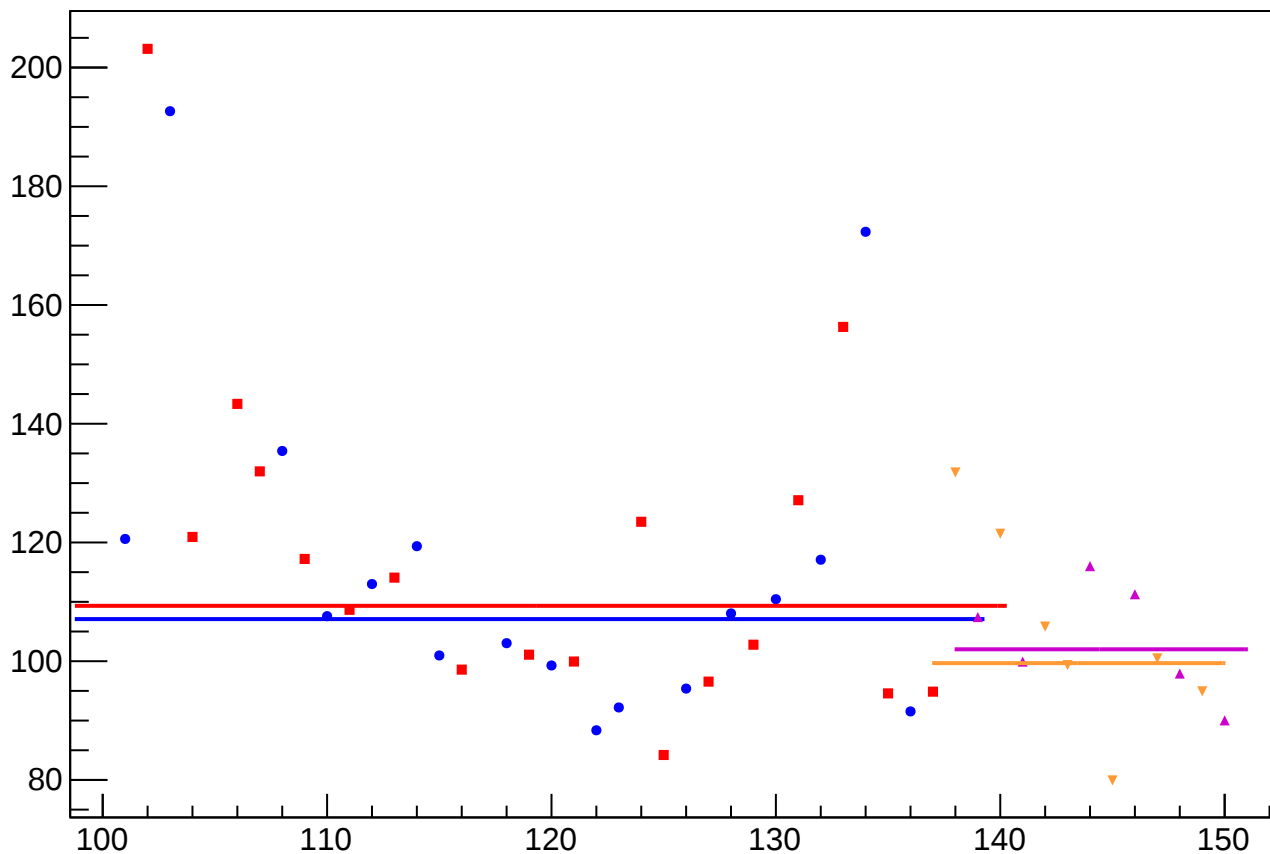
Right: 59.892 $\pm$ 30.129  $\chi^2$ /NDF: 37.8/34

In: 58.134 $\pm$ 31.327  $\chi^2$ /NDF: 24.3/22

Out: 72.154 $\pm$ 31.078  $\chi^2$ /NDF: 24.4/24

All: 65.200 $\pm$ 22.063  $\chi^2$ /NDF: 48.7/47

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 107.094+/-0.030  $\chi^2/\text{NDF}$ : 437755.4/16

Left Out: 99.676+/-0.032  $\chi^2/\text{NDF}$ :230427.4/6

Right Out: 109.329+/-0.030  $\chi^2/\text{NDF}$ : 506023.6/17

Left In: 102.006+/-0.033  $\chi^2/\text{NDF}$ :72202.0/5

Left: 100.809+/-0.023  $\chi^2/\text{NDF}$ : 305213.7/12

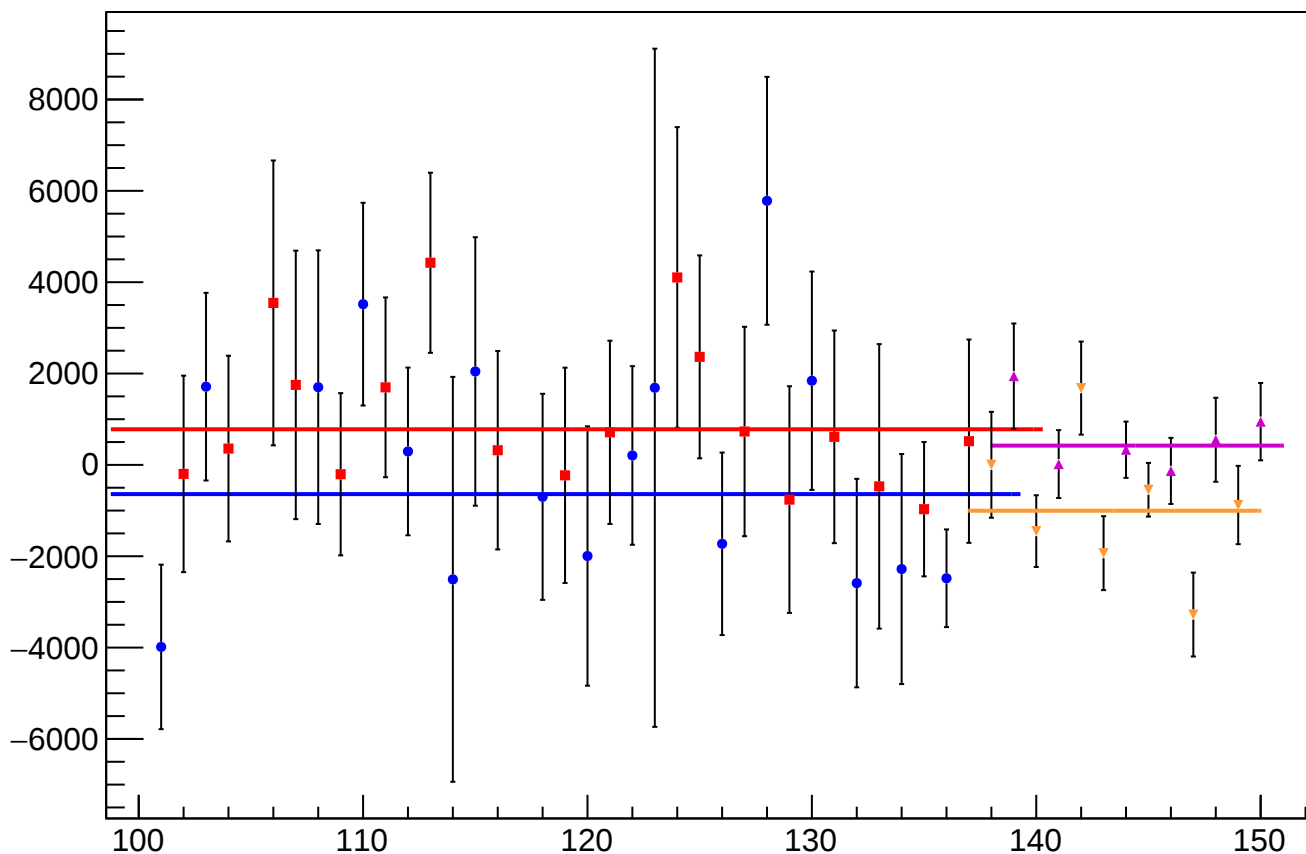
Right: 108.201+/-0.021  $\chi^2/\text{NDF}$ : 946531.4/34

In: 104.781+/-0.022  $\chi^2/\text{NDF}$ :523036.7/22

Out: 104.765+/-0.022  $\chi^2/\text{NDF}$ :784549.1/24

All: 104.773+/-0.016  $\chi^2/\text{NDF}$ : 1307586.0/47

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:  $-1003.871 \pm 311.538$   $\chi^2/\text{NDF}: 16.1/6$

Right Out:  $779.450 \pm 516.450$   $\chi^2/\text{NDF}: 8.8/17$

Left In:  $422.246 \pm 321.365$   $\chi^2/\text{NDF}: 3.0/5$

Left:  $-312.951 \pm 223.684$   $\chi^2/\text{NDF}: 29.3/12$

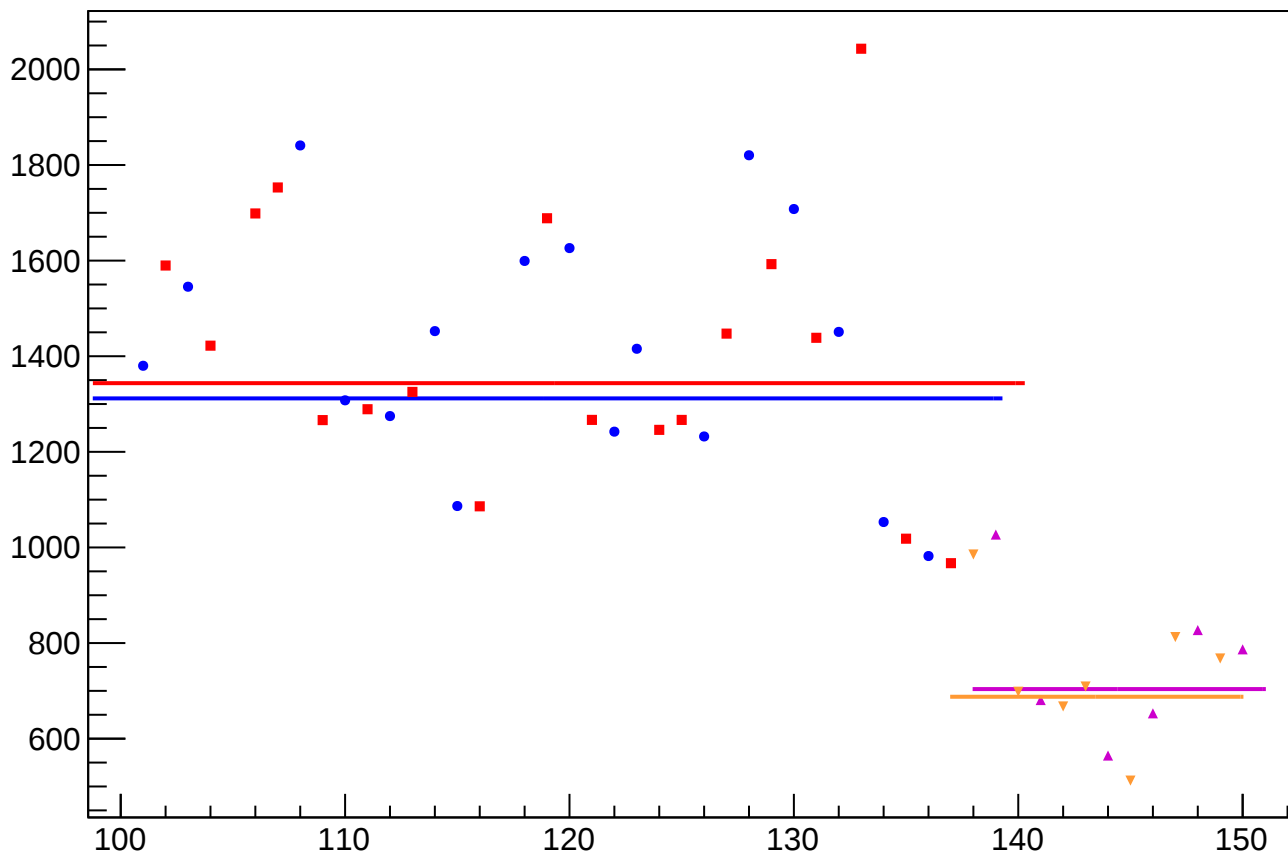
Right:  $73.635 \pm 366.171$   $\chi^2/\text{NDF}: 34.4/34$

In:  $128.092 \pm 273.263$   $\chi^2/\text{NDF}: 27.8/22$

Out:  $-528.080 \pm 266.761$   $\chi^2/\text{NDF}: 33.7/24$

All:  $-207.894 \pm 190.886$   $\chi^2/\text{NDF}: 64.5/47$

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: 687.693 $\pm$ 0.220  $\chi^2$ /NDF: 367277.9/6

Right Out: 1343.659 $\pm$ 0.365  $\chi^2$ /NDF: 461009.9/17

Left In: 703.755 $\pm$ 0.227  $\chi^2$ /NDF: 326123.1/5

Left: 695.475 $\pm$ 0.158  $\chi^2$ /NDF: 695976.7/12

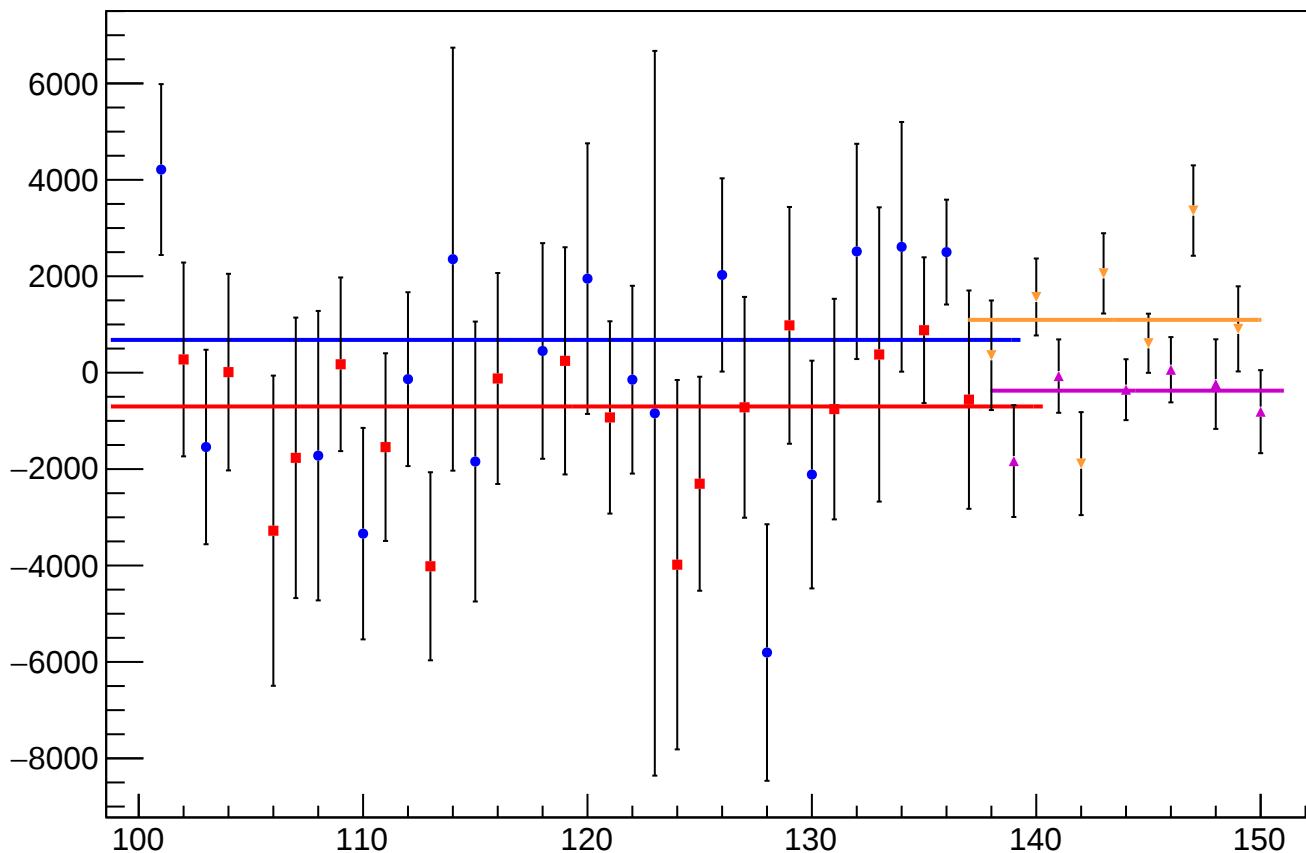
Right: 1327.813 $\pm$ 0.259  $\chi^2$ /NDF: 977472.0/34

In: 872.156 $\pm$ 0.193  $\chi^2$ /NDF: 2821732.3/22

Out: 862.705 $\pm$ 0.189  $\chi^2$ /NDF: 3193978.5/24

All: 867.317 $\pm$ 0.135  $\chi^2$ /NDF: 6016935.9/47

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 679.925 $\pm$ 517.508  $\chi^2$ /NDF: 22.6/16

Left Out: 1095.801 $\pm$ 320.426  $\chi^2$ /NDF:16.4/6

Right Out: -700.930 $\pm$ 517.319  $\chi^2$ /NDF: 7.6/17

Left In: -372.672 $\pm$ 321.669  $\chi^2$ /NDF:2.4/5

Left: 364.406 $\pm$ 227.013  $\chi^2$ /NDF: 29.3/12

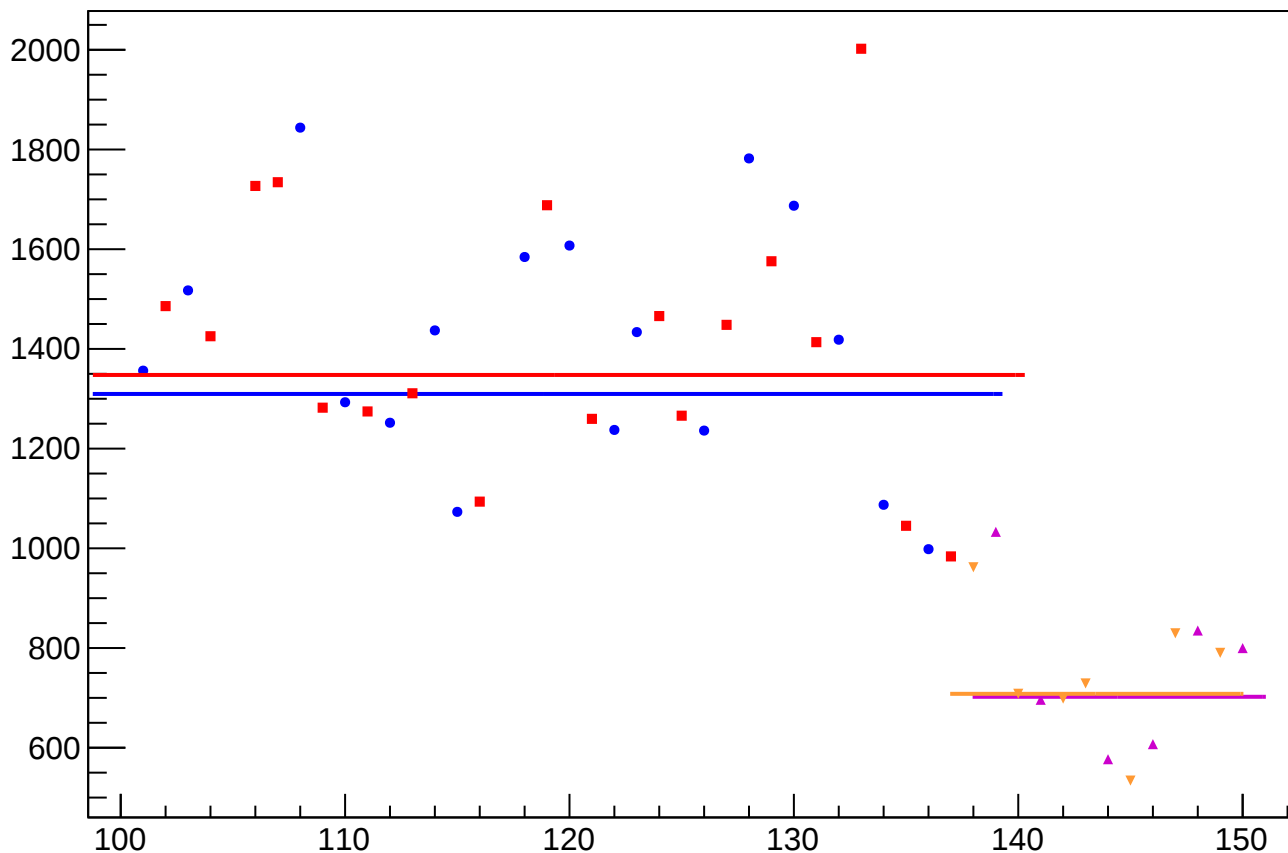
Right: -10.753 $\pm$ 365.867  $\chi^2$ /NDF: 33.8/34

In: -79.332 $\pm$ 273.194  $\chi^2$ /NDF:28.0/22

Out: 597.612 $\pm$ 272.405  $\chi^2$ /NDF:32.8/24

All: 260.120 $\pm$ 192.898  $\chi^2$ /NDF: 63.8/47

asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1309.654 $\pm$ 0.366  $\chi^2$ /NDF: 459314.8/16

Left Out: 708.113 $\pm$ 0.227  $\chi^2$ /NDF: 313013.7/6

Right Out: 1347.768 $\pm$ 0.366  $\chi^2$ /NDF: 405345.0/17

Left In: 702.190 $\pm$ 0.227  $\chi^2$ /NDF: 347591.8/5

Left: 705.163 $\pm$ 0.161  $\chi^2$ /NDF: 660945.9/12

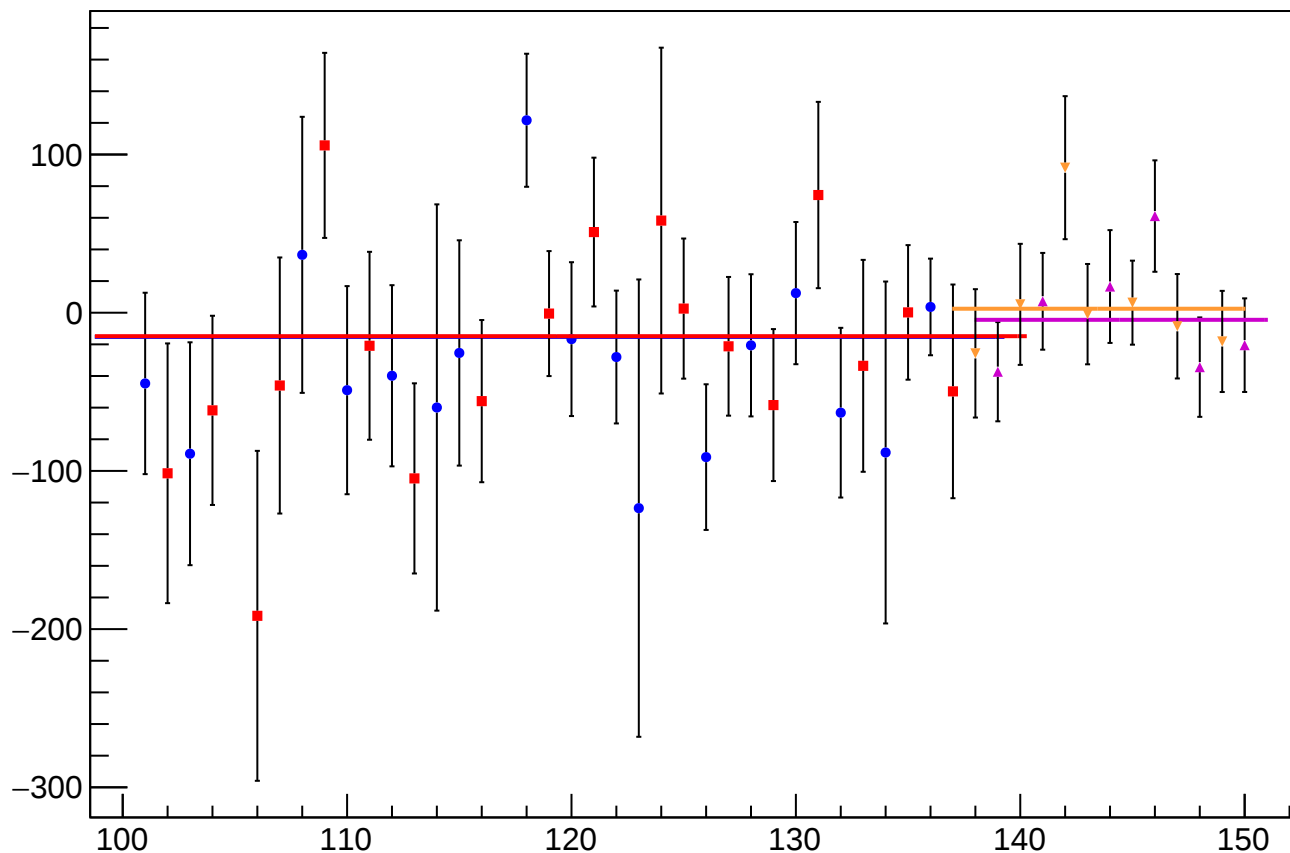
Right: 1328.718 $\pm$ 0.259  $\chi^2$ /NDF: 870085.9/34

In: 871.479 $\pm$ 0.193  $\chi^2$ /NDF: 2794667.4/22

Out: 885.473 $\pm$ 0.193  $\chi^2$ /NDF: 2928280.2/24

All: 878.497 $\pm$ 0.136  $\chi^2$ /NDF: 5725578.9/47

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:  $2.520 \pm 12.816$   $\chi^2/\text{NDF}: 4.9/6$

Right Out:  $-14.839 \pm 13.097$   $\chi^2/\text{NDF}: 18.2/17$

Left In:  $-4.491 \pm 13.092$   $\chi^2/\text{NDF}: 6.3/5$

Left:  $-0.911 \pm 9.158$   $\chi^2/\text{NDF}: 11.3/12$

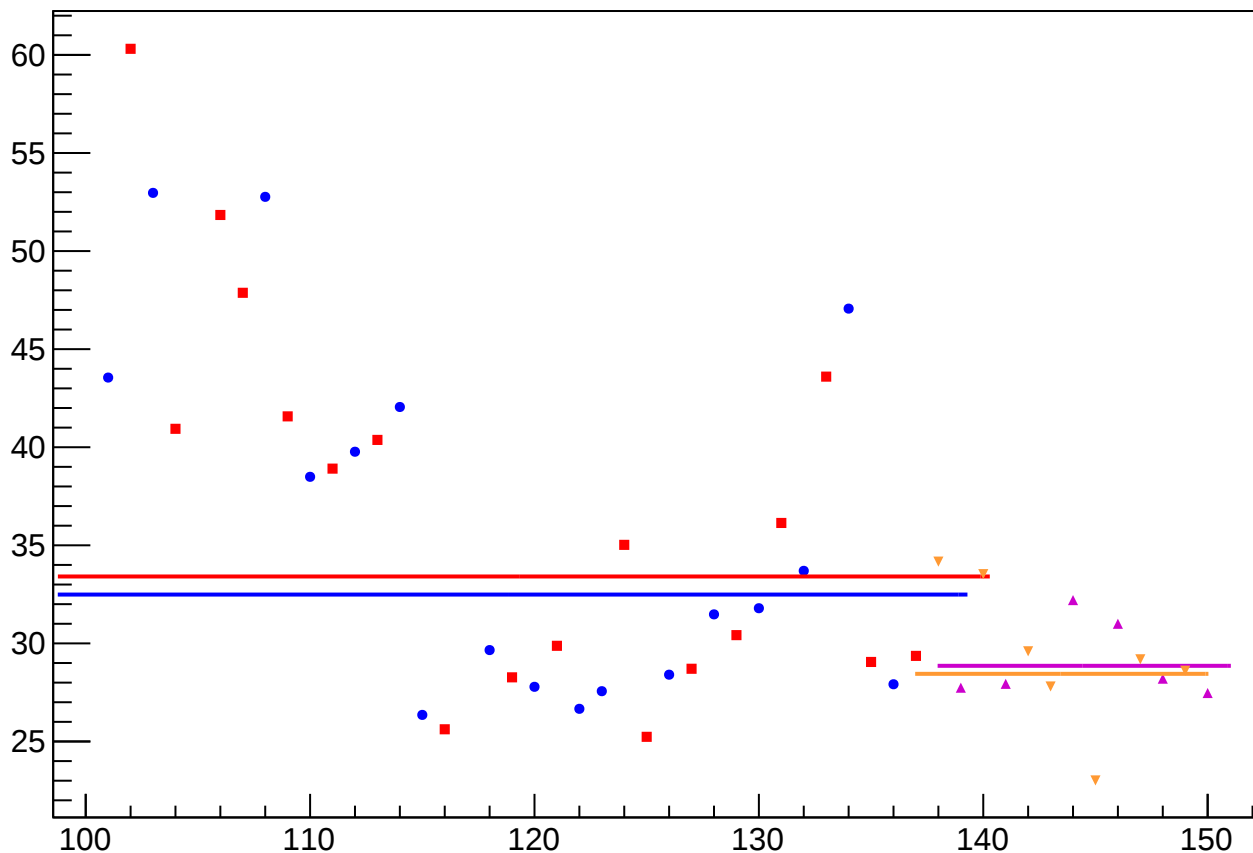
Right:  $-15.063 \pm 9.193$   $\chi^2/\text{NDF}: 36.5/34$

In:  $-9.963 \pm 9.192$   $\chi^2/\text{NDF}: 24.9/22$

Out:  $-5.970 \pm 9.160$   $\chi^2/\text{NDF}: 24.0/24$

All:  $-7.960 \pm 6.488$   $\chi^2/\text{NDF}: 49.0/47$

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 32.489 $\pm$ 0.009  $\chi^2$ /NDF: 594480.9/16

Left Out: 28.448 $\pm$ 0.009  $\chi^2$ /NDF: 161987.5/6

Right Out: 33.411 $\pm$ 0.009  $\chi^2$ /NDF: 725189.8/17

Left In: 28.857 $\pm$ 0.009  $\chi^2$ /NDF: 34663.0/5

Left: 28.648 $\pm$ 0.006  $\chi^2$ /NDF: 197648.0/12

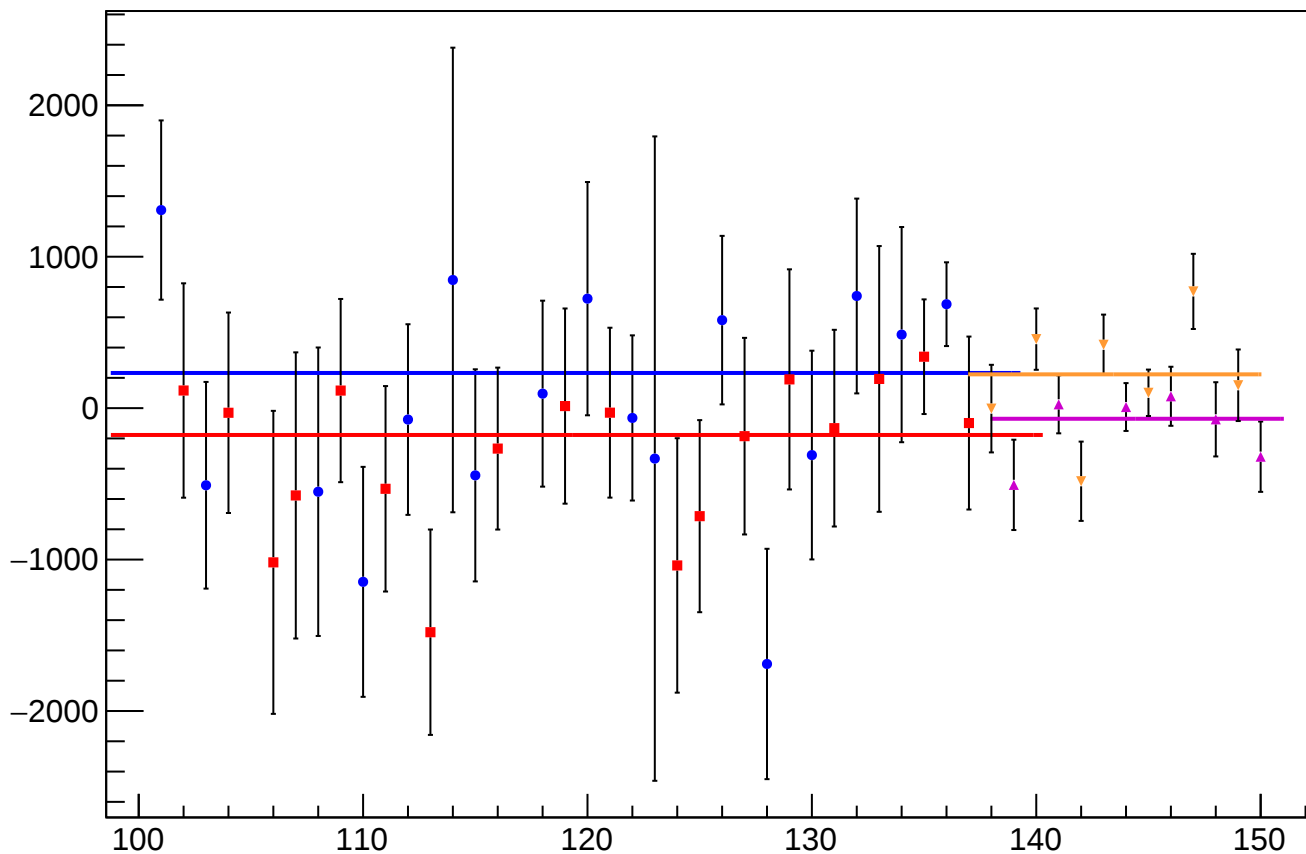
Right: 32.943 $\pm$ 0.007  $\chi^2$ /NDF: 1324698.1/34

In: 30.699 $\pm$ 0.006  $\chi^2$ /NDF: 707200.2/22

Out: 30.876 $\pm$ 0.006  $\chi^2$ /NDF: 1033896.2/24

All: 30.788 $\pm$ 0.005  $\chi^2$ /NDF: 1741466.8/47

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:  $223.187 \pm 80.883$   $\chi^2/\text{NDF}$ : 15.8/6

Right Out:  $-177.151 \pm 150.003$   $\chi^2/\text{NDF}$ : 9.6/17

Left In:  $-70.160 \pm 84.500$   $\chi^2/\text{NDF}$ : 4.4/5

Left:  $82.927 \pm 58.430$   $\chi^2/\text{NDF}$ : 26.4/12

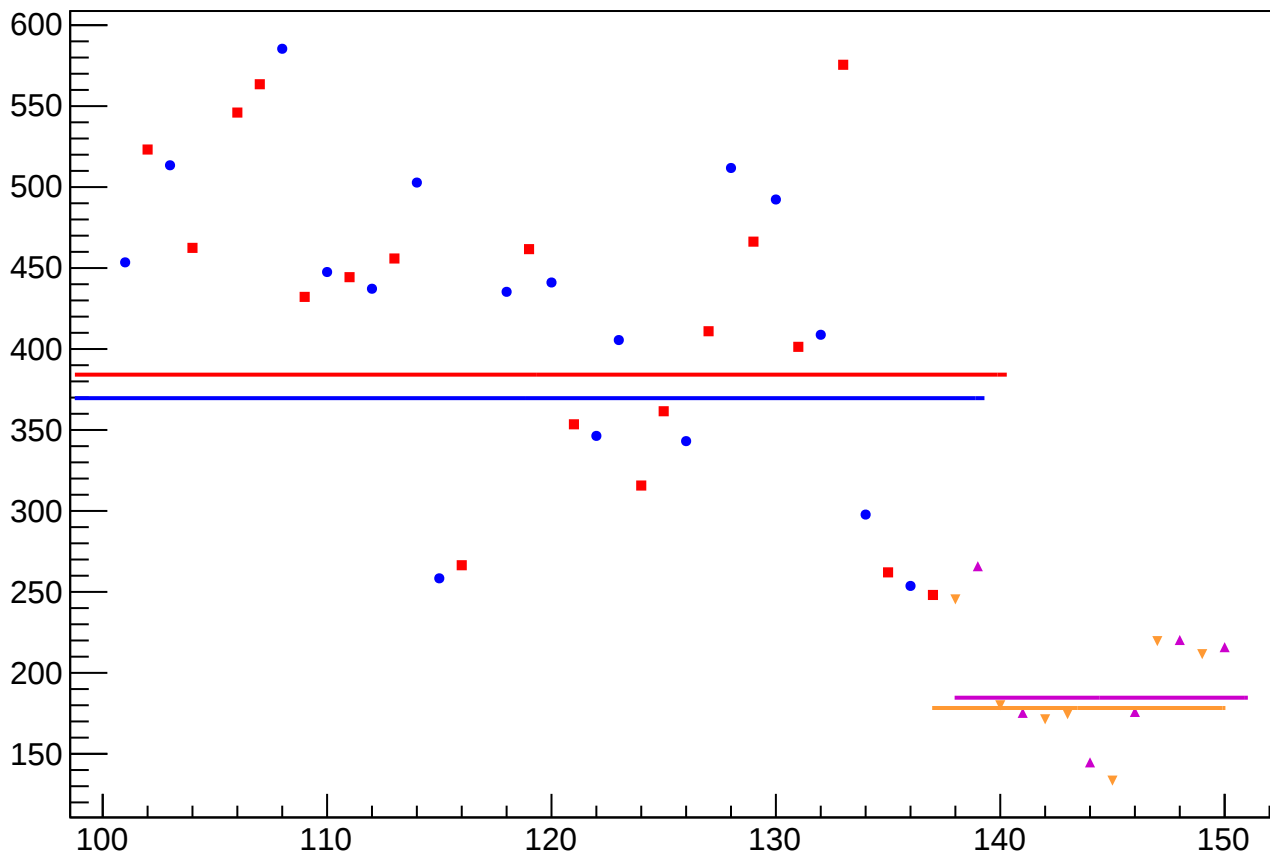
Right:  $29.504 \pm 105.571$   $\chi^2/\text{NDF}$ : 34.8/34

In:  $3.747 \pm 73.456$   $\chi^2/\text{NDF}$ : 29.0/22

Out:  $133.009 \pm 71.193$   $\chi^2/\text{NDF}$ : 30.9/24

All:  $70.400 \pm 51.122$   $\chi^2/\text{NDF}$ : 61.4/47

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: 178.306 $\pm$ 0.057  $\chi^2$ /NDF: 376185.2/6

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

Left In: 184.661 $\pm$ 0.060  $\chi^2$ /NDF: 363243.7/5

Left: 181.344 $\pm$ 0.041  $\chi^2$ /NDF: 745332.9/12

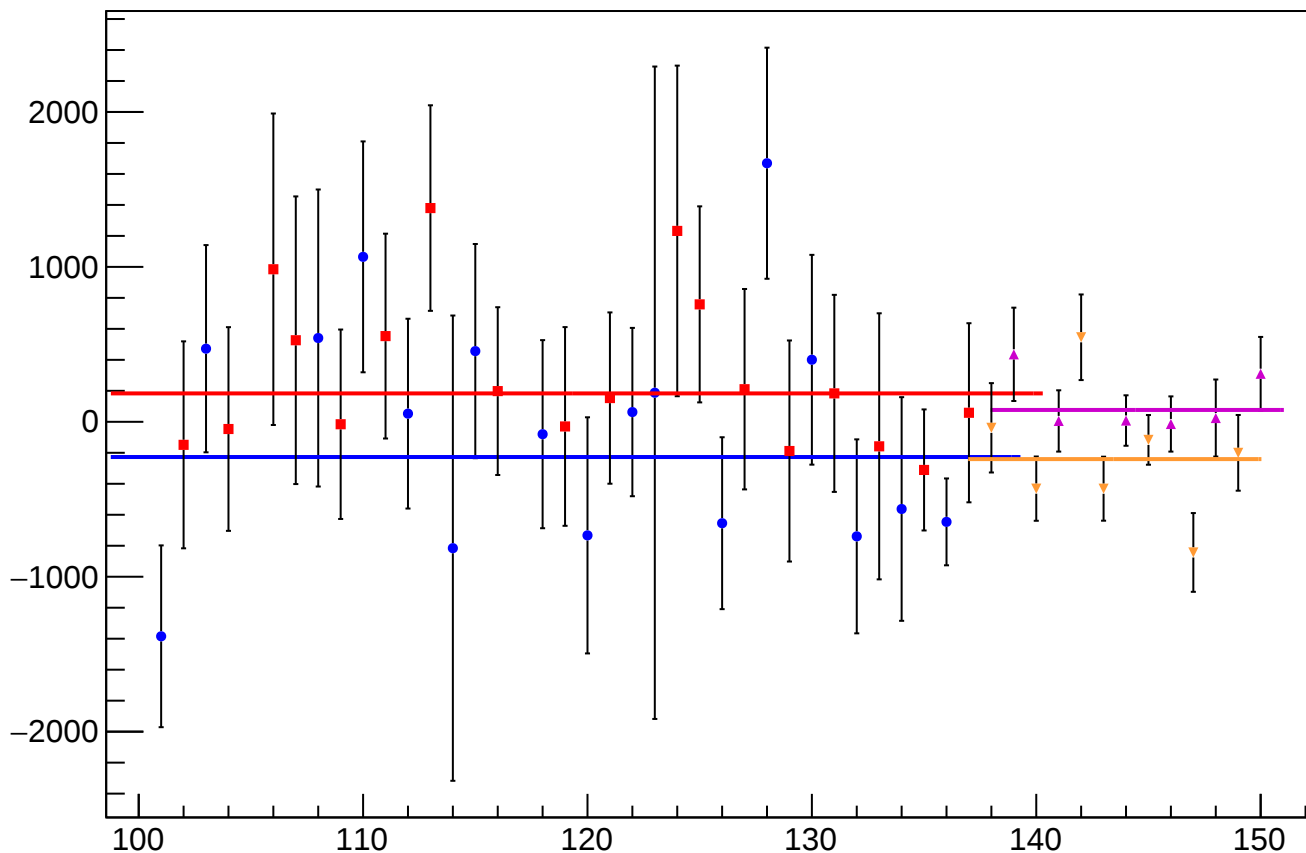
Right: 376.842 $\pm$ 0.075  $\chi^2$ /NDF: 1787228.1/34

In: 229.859 $\pm$ 0.052  $\chi^2$ /NDF: 3607953.6/22

Out: 224.678 $\pm$ 0.050  $\chi^2$ /NDF: 4169657.4/24

All: 227.187 $\pm$ 0.036  $\chi^2$ /NDF: 7782741.3/47

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: -240.689+/-83.655  $\chi^2/\text{NDF}$ : 16.5/6

Right Out: 183.318+/-150.486  $\chi^2/\text{NDF}$ : 8.8/17

Left In: 76.559+/-84.627  $\chi^2/\text{NDF}$ : 3.0/5

Left: -83.898+/-59.494  $\chi^2/\text{NDF}$ : 26.6/12

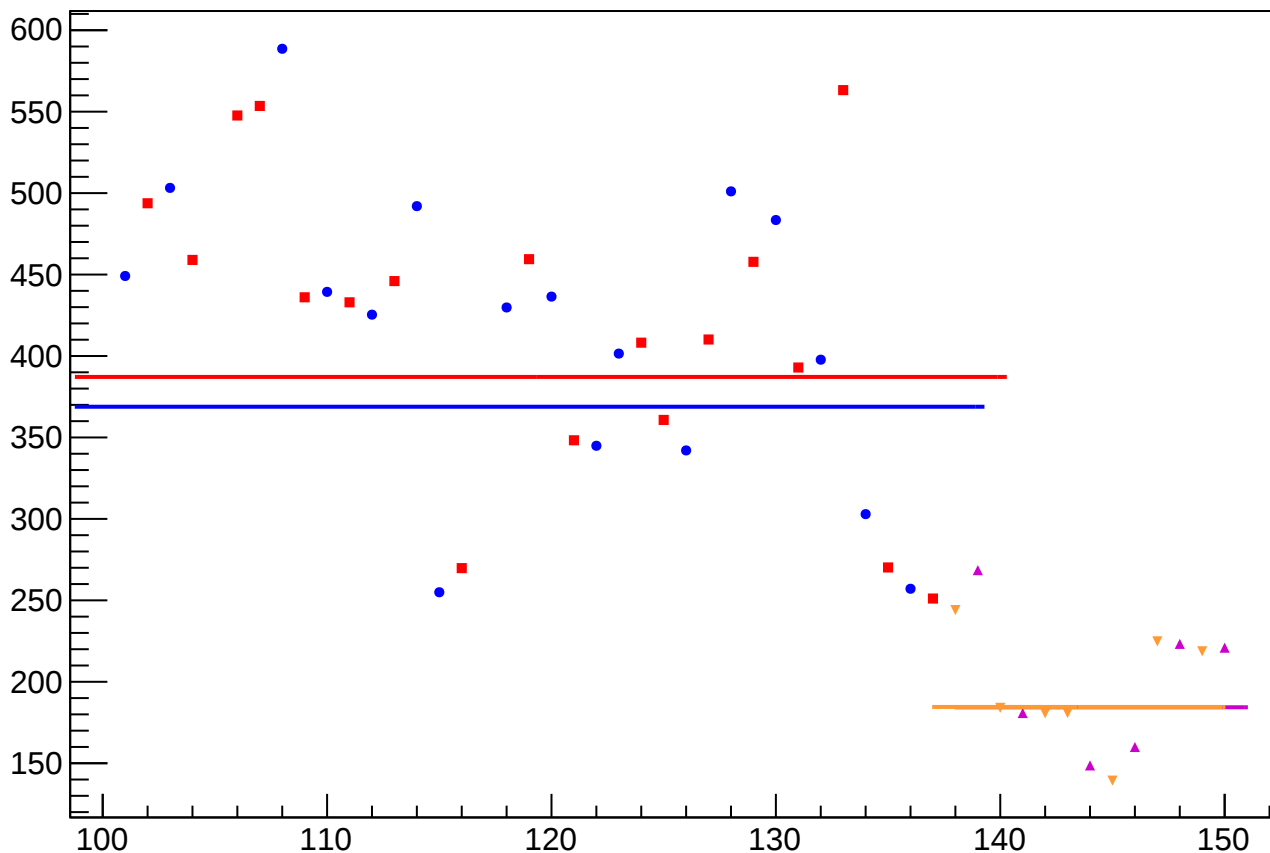
Right: -25.507+/-105.492  $\chi^2/\text{NDF}$ : 34.4/34

In: 1.635+/-73.456  $\chi^2/\text{NDF}$ : 28.0/22

Out: -140.594+/-73.117  $\chi^2/\text{NDF}$ : 31.4/24

All: -69.808+/-51.821  $\chi^2/\text{NDF}$ : 61.3/47

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 368.864 $\pm$ 0.105  $\chi^2$ /NDF: 829732.0/16

Left Out: 184.553 $\pm$ 0.059  $\chi^2$ /NDF: 334423.8/6

Right Out: 387.165 $\pm$ 0.106  $\chi^2$ /NDF: 758108.0/17

Left In: 184.364 $\pm$ 0.060  $\chi^2$ /NDF: 386672.1/5

Left: 184.459 $\pm$ 0.042  $\chi^2$ /NDF: 721100.9/12

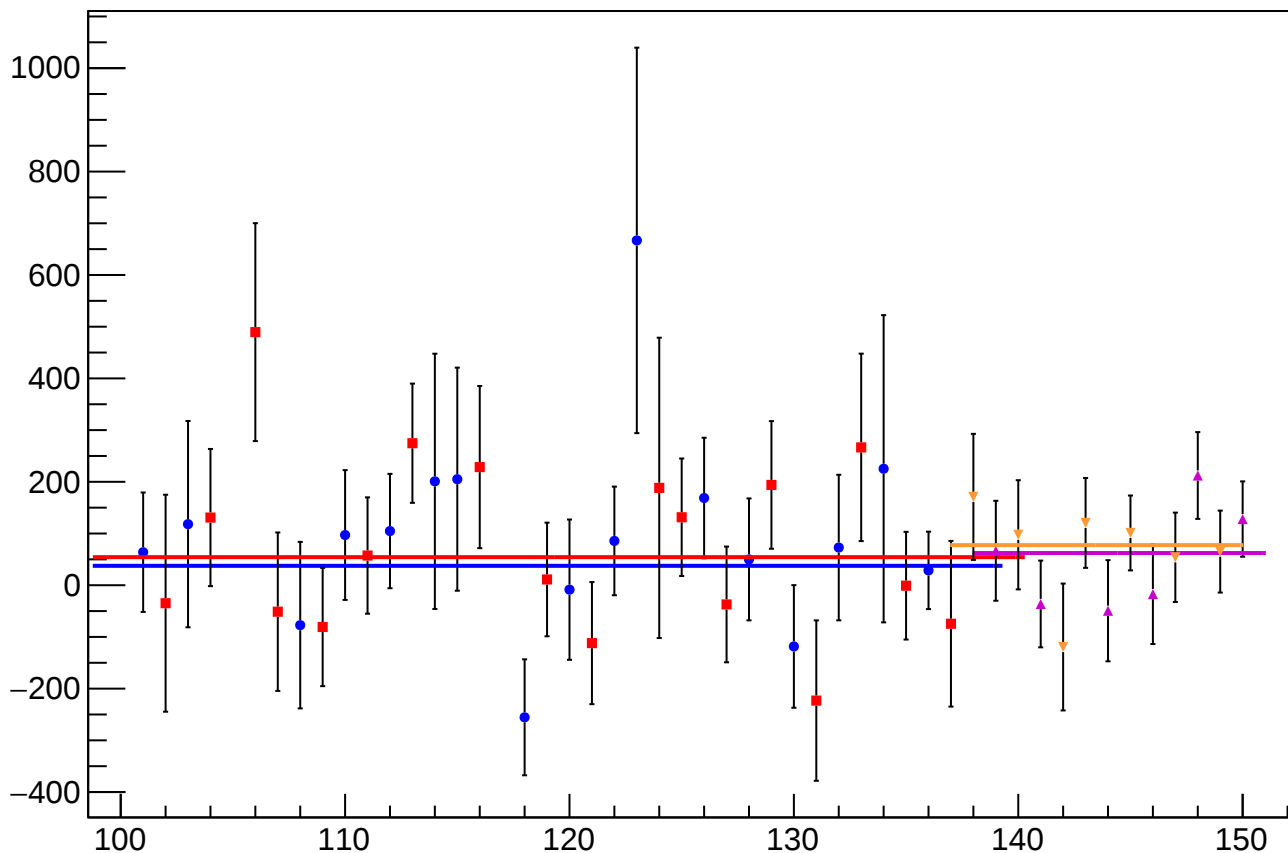
Right: 377.857 $\pm$ 0.075  $\chi^2$ /NDF: 1602884.1/34

In: 229.860 $\pm$ 0.052  $\chi^2$ /NDF: 3560521.2/22

Out: 232.383 $\pm$ 0.052  $\chi^2$ /NDF: 3862156.1/24

All: 231.128 $\pm$ 0.037  $\chi^2$ /NDF: 7423862.4/47

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: 77.574 $\pm$ 34.504  $\chi^2$ /NDF: 3.6/6

Right Out: 54.274 $\pm$ 31.489  $\chi^2$ /NDF: 21.8/17

Left In: 62.249 $\pm$ 35.552  $\chi^2$ /NDF: 7.4/5

Left: 70.141 $\pm$ 24.760  $\chi^2$ /NDF: 11.1/12

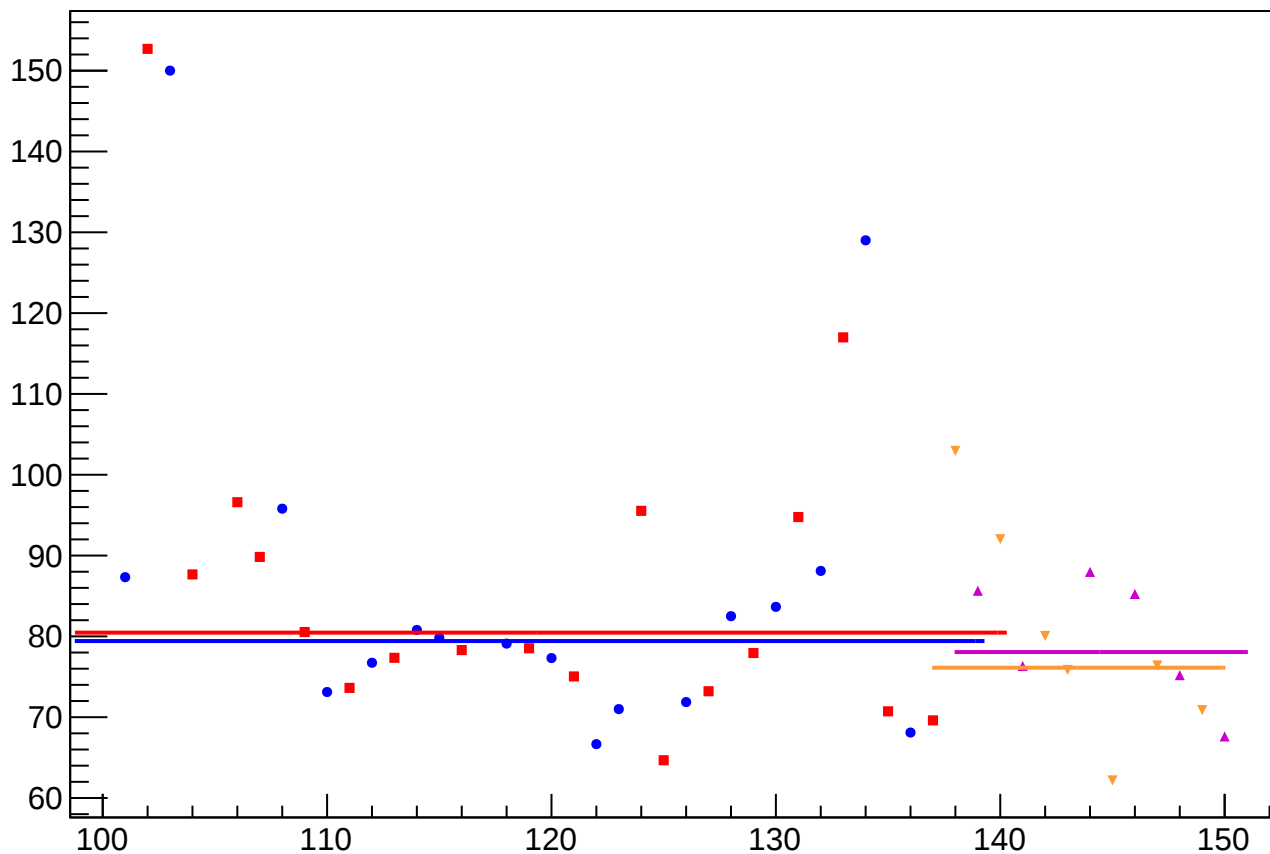
Right: 45.897 $\pm$ 22.256  $\chi^2$ /NDF: 37.8/34

In: 48.389 $\pm$ 23.560  $\chi^2$ /NDF: 23.5/22

Out: 64.862 $\pm$ 23.259  $\chi^2$ /NDF: 25.7/24

All: 56.731 $\pm$ 16.552  $\chi^2$ /NDF: 49.4/47

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: 76.123 $\pm$ 0.024  $\chi^2$ /NDF: 227274.0/6

Right Out: 80.465 $\pm$ 0.022  $\chi^2$ /NDF: 454376.0/17

Left In: 78.059 $\pm$ 0.025  $\chi^2$ /NDF: 88211.8/5

Left: 77.062 $\pm$ 0.018  $\chi^2$ /NDF: 318540.3/12

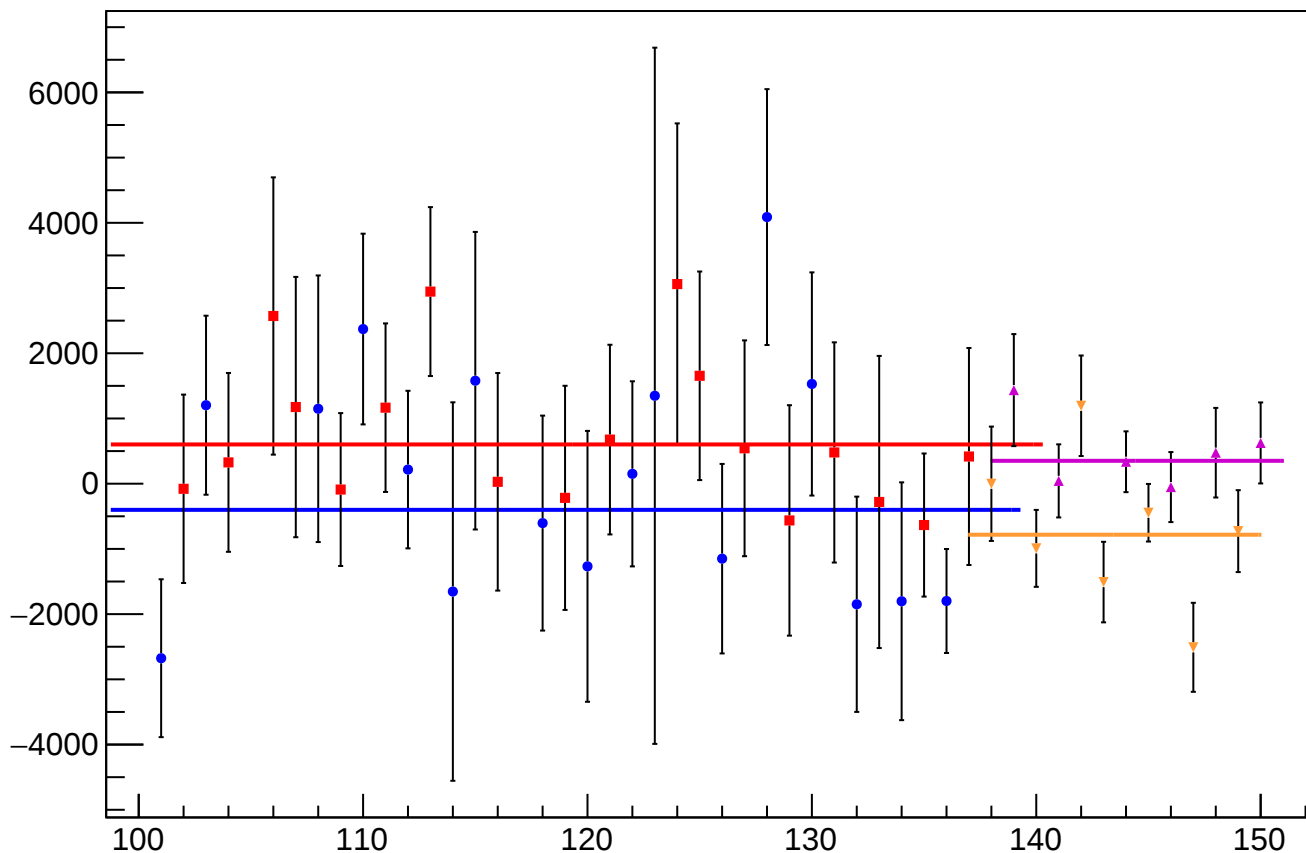
Right: 79.943 $\pm$ 0.016  $\chi^2$ /NDF: 894523.3/34

In: 78.823 $\pm$ 0.017  $\chi^2$ /NDF: 528904.9/22

Out: 78.492 $\pm$ 0.016  $\chi^2$ /NDF: 698930.0/24

All: 78.656 $\pm$ 0.012  $\chi^2$ /NDF: 1228034.7/47

asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-401.047 \pm 368.480$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $-782.490 \pm 233.794$   $\chi^2/\text{NDF}: 15.9/6$

Right Out:  $601.891 \pm 363.668$   $\chi^2/\text{NDF}: 8.7/17$

Left In:  $350.820 \pm 240.249$   $\chi^2/\text{NDF}: 2.7/5$

Left:  $-231.263 \pm 167.553$   $\chi^2/\text{NDF}: 30.0/12$

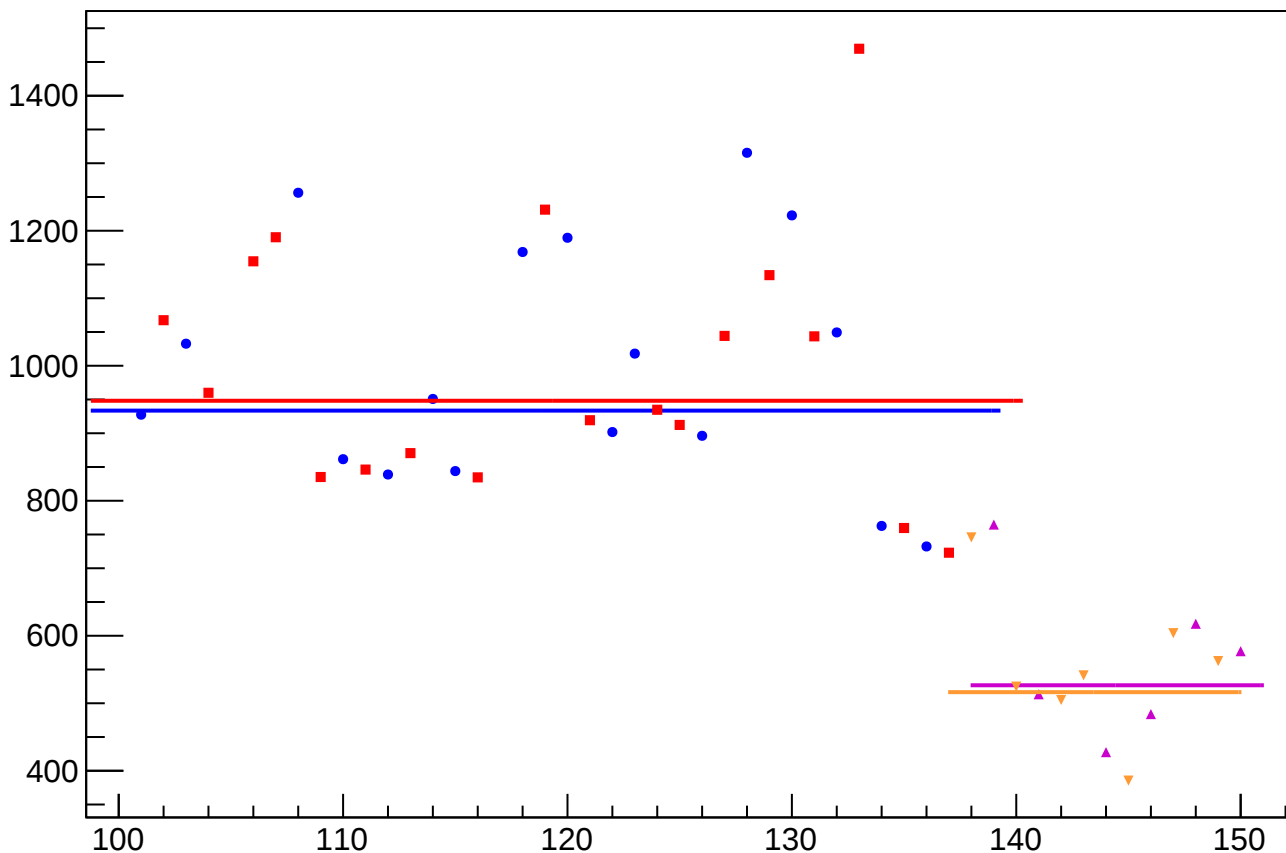
Right:  $107.014 \pm 258.836$   $\chi^2/\text{NDF}: 34.4/34$

In:  $126.541 \pm 201.251$   $\chi^2/\text{NDF}: 27.5/22$

Out:  $-377.652 \pm 196.661$   $\chi^2/\text{NDF}: 34.8/24$

All:  $-131.371 \pm 140.655$   $\chi^2/\text{NDF}: 65.5/47$

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: 516.453+/-0.165  $\chi^2/\text{NDF}$ : 360552.3/6

Right Out: 948.131+/-0.257  $\chi^2/\text{NDF}$ : 405153.7/17

Left In: 526.655+/-0.170  $\chi^2/\text{NDF}$ : 306239.8/5

Left: 521.415+/-0.118  $\chi^2/\text{NDF}$ : 668644.5/12

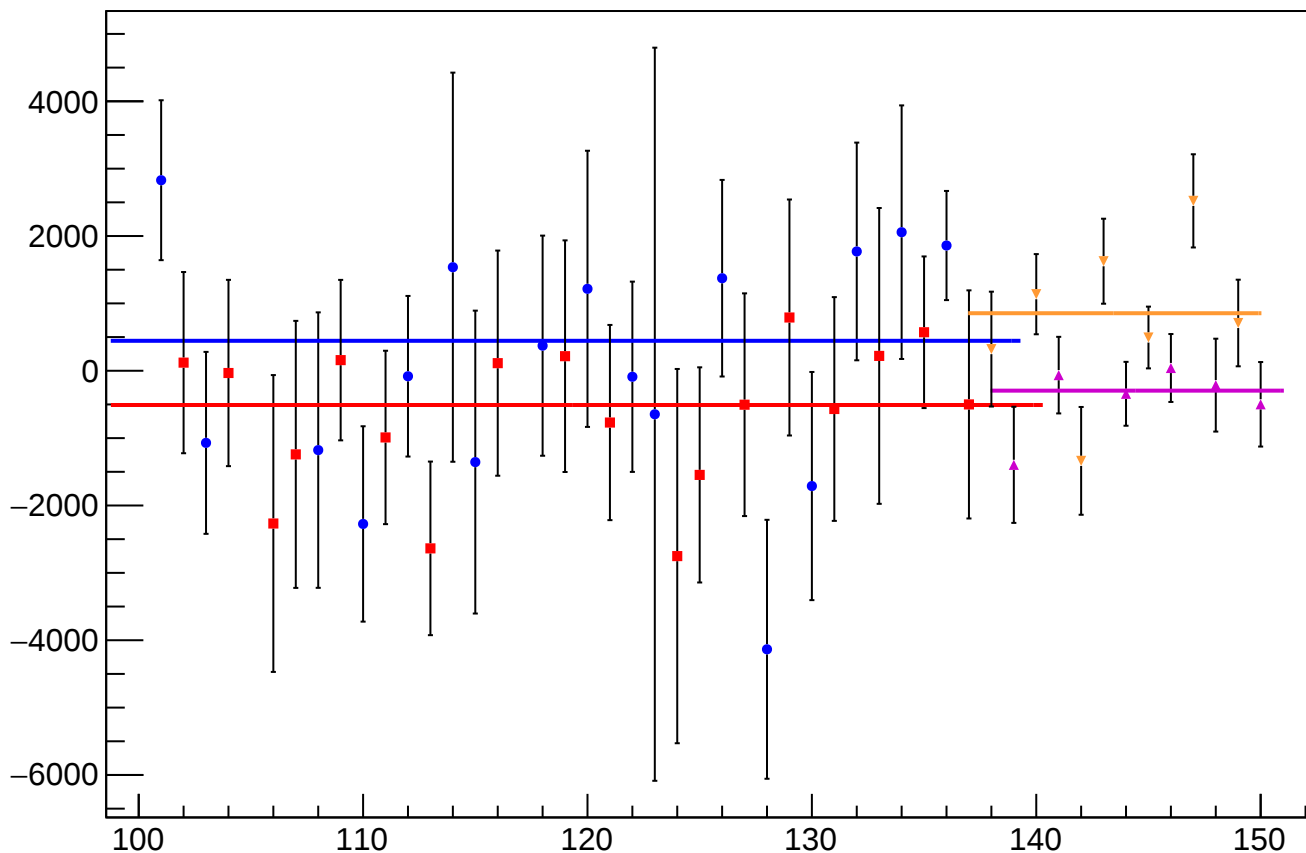
Right: 940.927+/-0.183  $\chi^2/\text{NDF}$ : 849066.3/34

In: 648.025+/-0.142  $\chi^2/\text{NDF}$ : 2459672.8/22

Out: 642.690+/-0.139  $\chi^2/\text{NDF}$ : 2759628.7/24

All: 645.296+/-0.099  $\chi^2/\text{NDF}$ : 5220020.4/47

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 444.669+/-367.099  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 854.064+/-238.748  $\chi^2/\text{NDF}$ :16.1/6

Right Out: -508.221+/-364.112  $\chi^2/\text{NDF}$ : 7.3/17

Left In: -295.103+/-239.267  $\chi^2/\text{NDF}$ :2.4/5

Left: 280.726+/-169.004  $\chi^2/\text{NDF}$ : 30.0/12

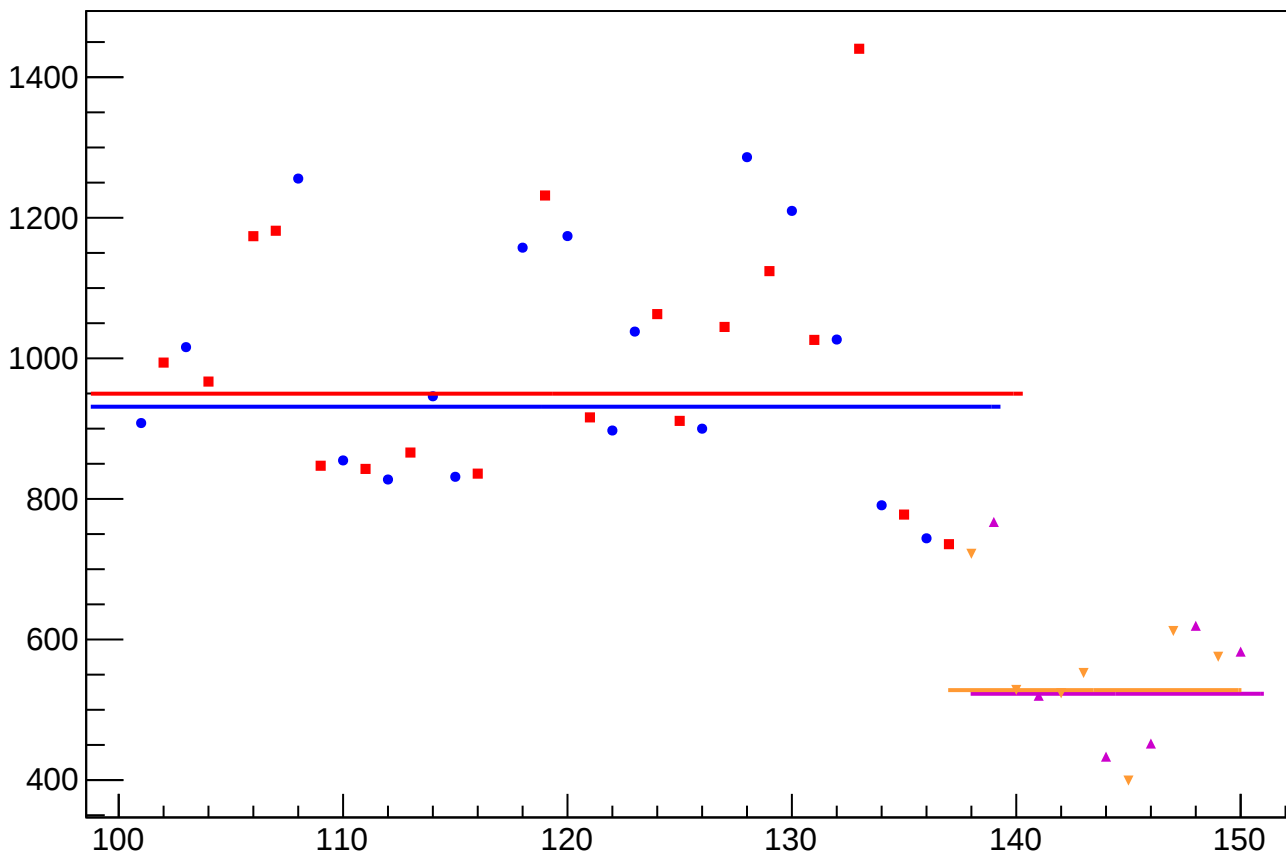
Right: -35.668+/-258.516  $\chi^2/\text{NDF}$ : 33.6/34

In: -74.537+/-200.449  $\chi^2/\text{NDF}$ :28.1/22

Out: 444.464+/-199.655  $\chi^2/\text{NDF}$ :33.2/24

All: 185.992+/-141.457  $\chi^2/\text{NDF}$ : 64.7/47

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 527.988 $\pm$ 0.169  $\chi^2$ /NDF:304663.9/6

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

Left In: 522.799 $\pm$ 0.169  $\chi^2$ /NDF:329250.5/5

Left: 525.399 $\pm$ 0.120  $\chi^2$ /NDF: 634385.8/12

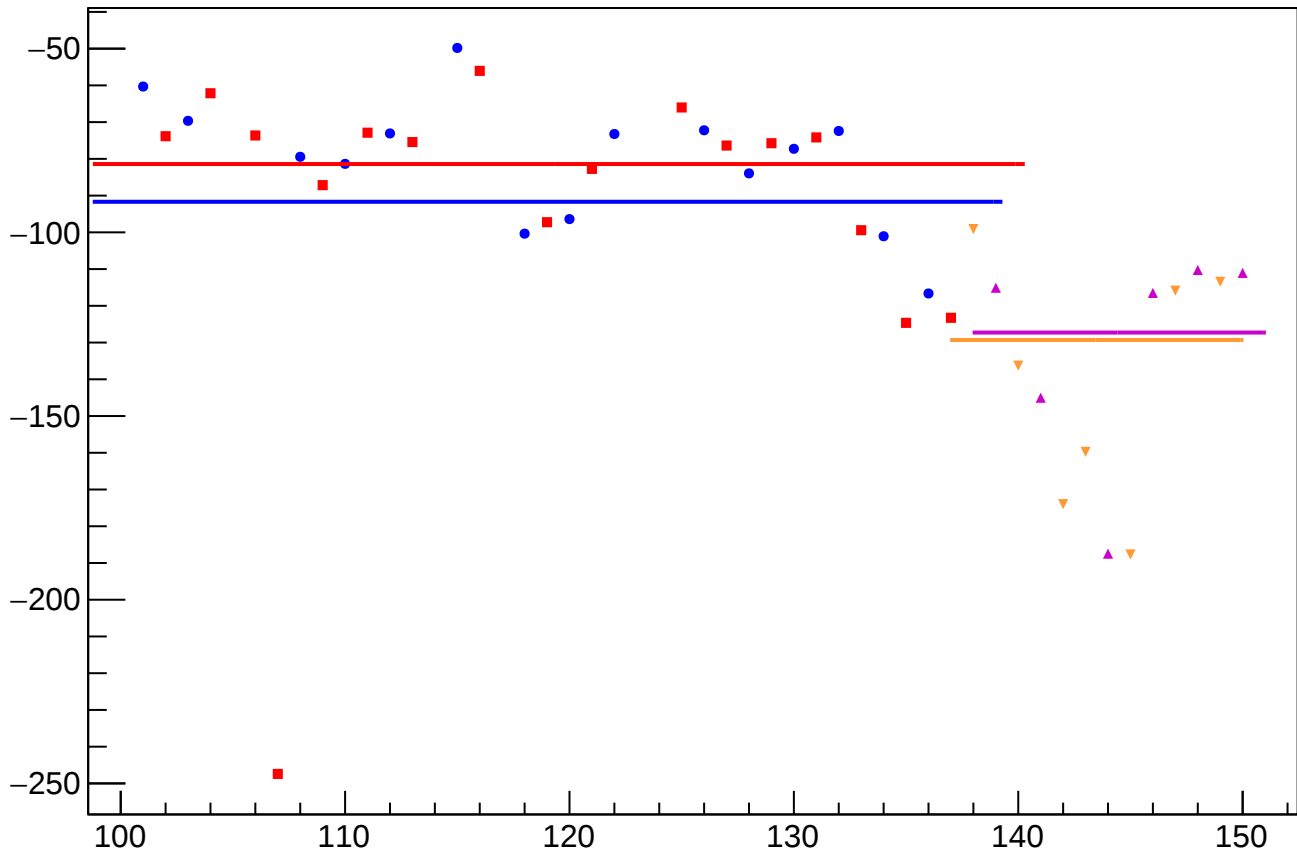
Right: 940.547 $\pm$ 0.183  $\chi^2$ /NDF: 768363.9/34

In: 644.566 $\pm$ 0.142  $\chi^2$ /NDF:2466831.8/22

Out: 654.797 $\pm$ 0.141  $\chi^2$ /NDF:2546745.6/24

All: 649.702 $\pm$ 0.100  $\chi^2$ /NDF: 5016192.8/47

# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In: -91.679 $\pm$ 0.070  $\chi^2$ /NDF: 64621.9/14

Left Out: -129.300 $\pm$ 0.166  $\chi^2$ /NDF:16225.9/6

Right Out: -81.406 $\pm$ 0.098  $\chi^2$ /NDF: 41708.8/16

Left In: -127.274 $\pm$ 0.106  $\chi^2$ /NDF:36086.8/5

Left: -127.859 $\pm$ 0.089  $\chi^2$ /NDF: 52419.1/12

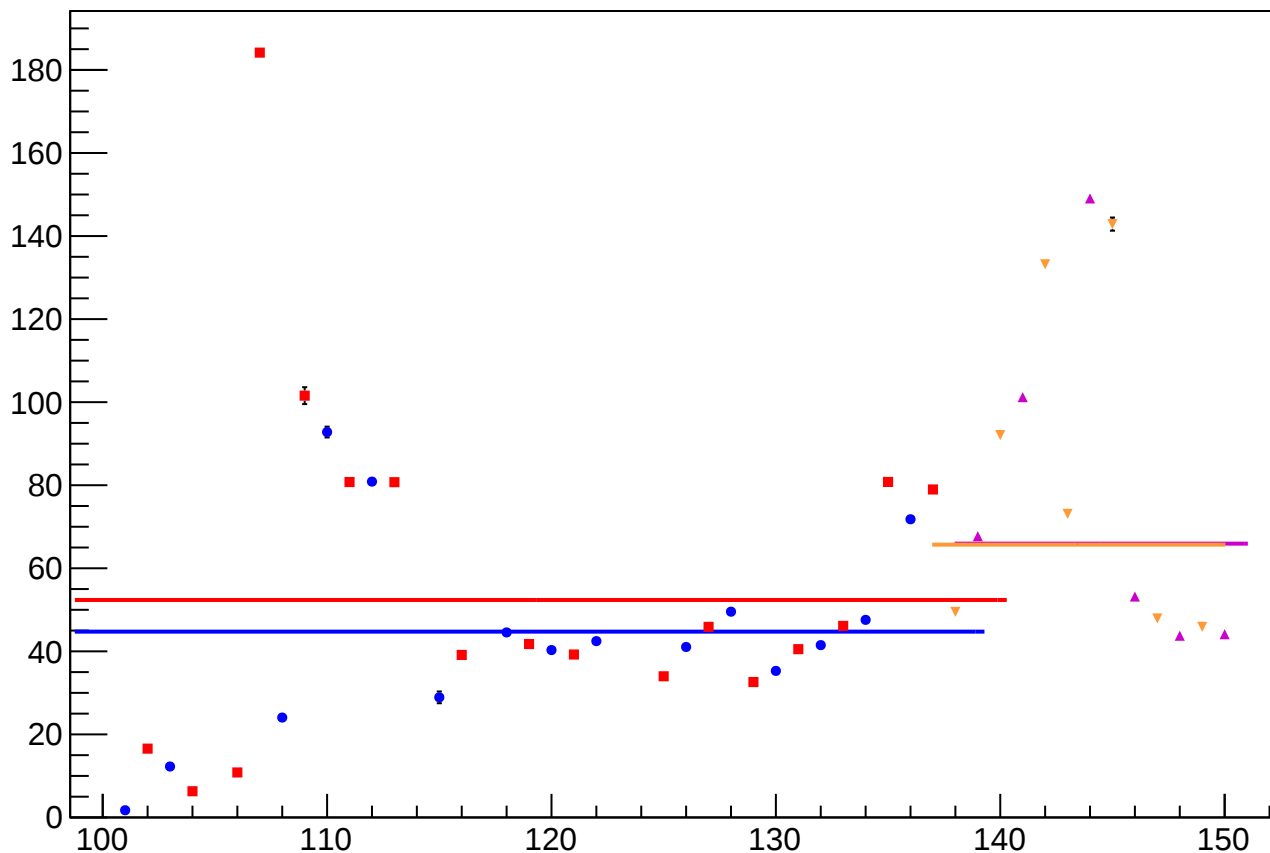
Right: -88.221 $\pm$ 0.057  $\chi^2$ /NDF: 113551.1/31

In: -102.586 $\pm$ 0.058  $\chi^2$ /NDF:179637.2/20

Out: -93.902 $\pm$ 0.085  $\chi^2$ /NDF:119659.9/23

All: -99.785 $\pm$ 0.048  $\chi^2$ /NDF: 306426.6/44

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In: 44.745 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 84697.9/14

Left Out: 65.692 $\pm$ 0.156  $\chi^2/\text{NDF}$ : 30973.1/6

Right Out: 52.367 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 69285.2/16

Left In: 65.934 $\pm$ 0.096  $\chi^2/\text{NDF}$ : 91011.2/5

Left: 65.868 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 121986.0/12

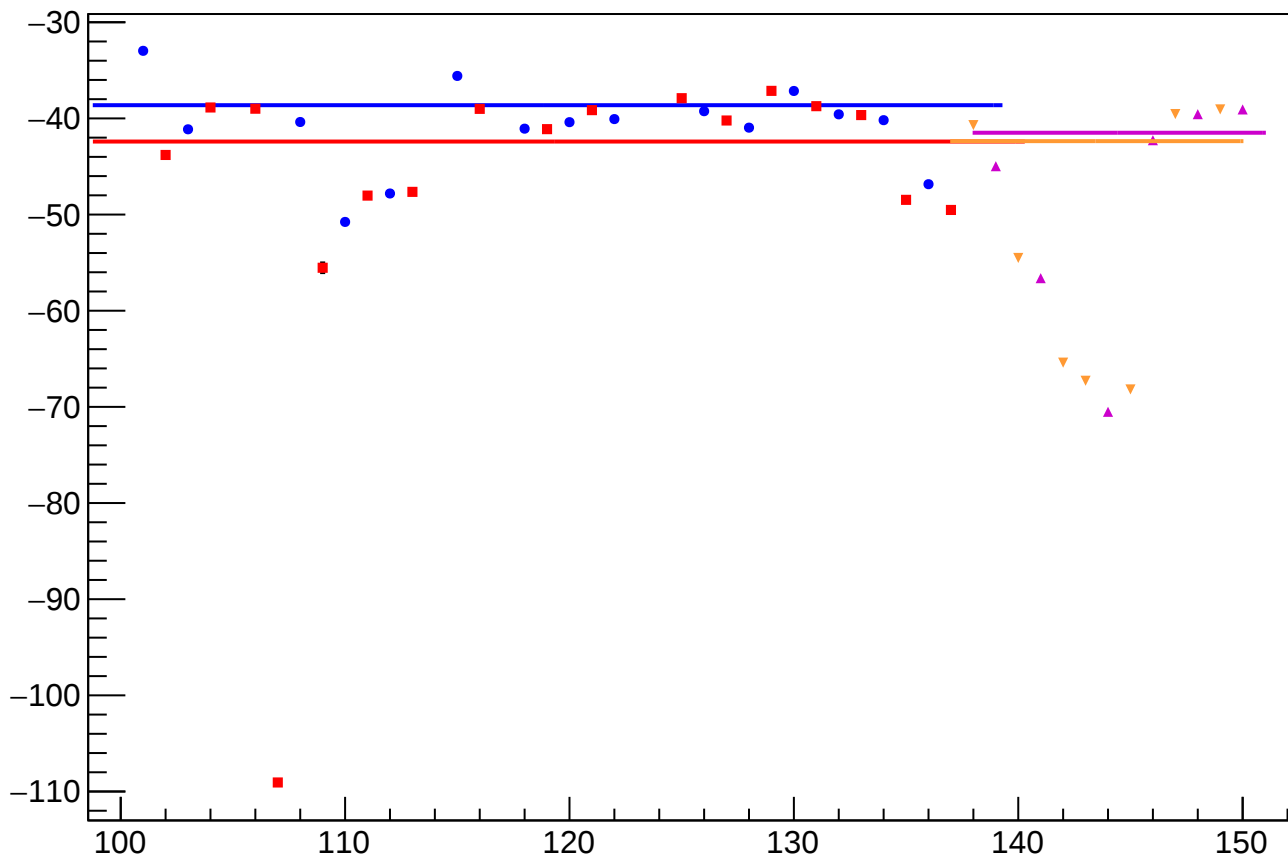
Right: 46.456 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 157538.4/31

In: 50.800 $\pm$ 0.051  $\chi^2/\text{NDF}$ : 210679.6/20

Out: 56.919 $\pm$ 0.091  $\chi^2/\text{NDF}$ : 105045.9/23

All: 52.262 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 319141.5/44

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}: 240108.7/14$

Left Out:  $-42.365 \pm 0.020$   $\chi^2/\text{NDF}: 173144.4/6$

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}: 269138.5/16$

Left In:  $-41.491 \pm 0.016$   $\chi^2/\text{NDF}: 138780.6/5$

Left:  $-41.842 \pm 0.013$   $\chi^2/\text{NDF}: 313076.4/12$

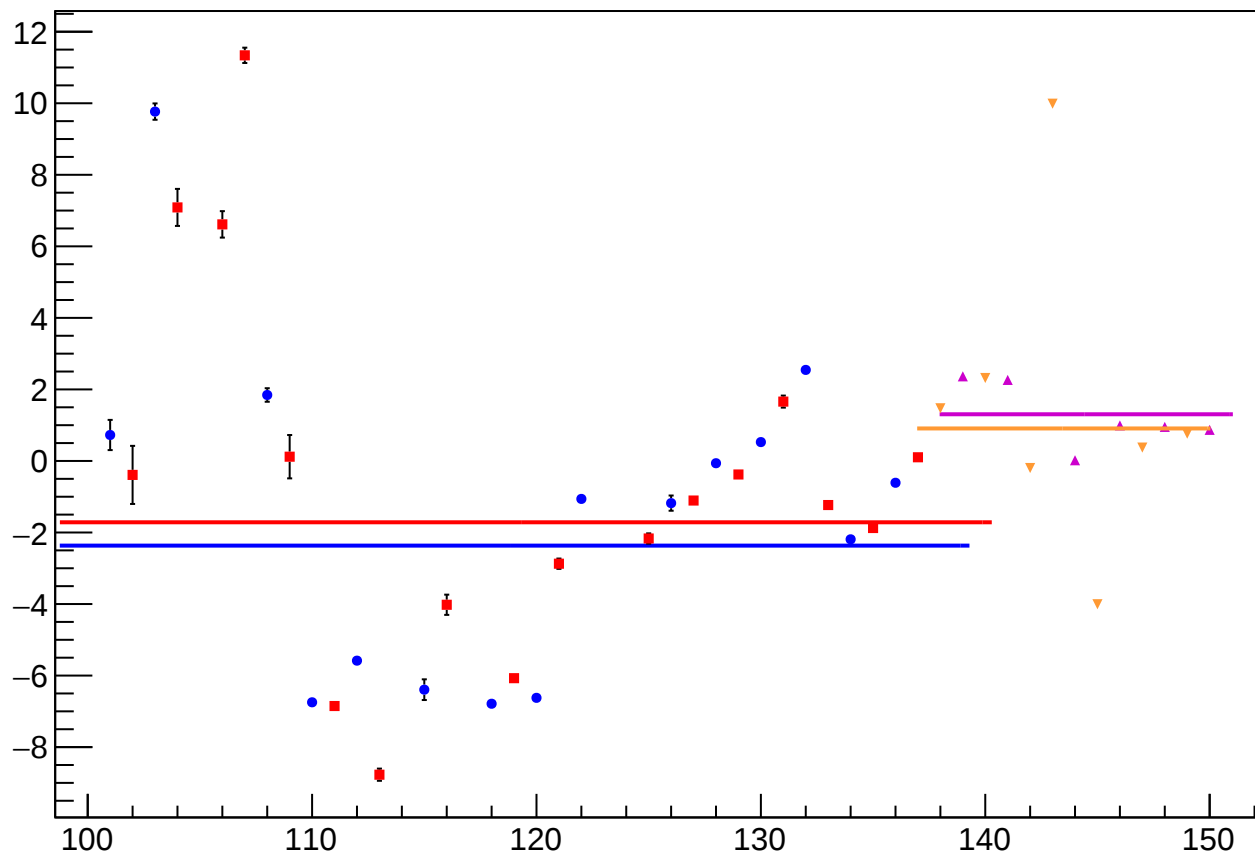
Right:  $-39.121 \pm 0.008$   $\chi^2/\text{NDF}: 536660.1/31$

In:  $-39.210 \pm 0.007$   $\chi^2/\text{NDF}: 403401.5/20$

Out:  $-42.384 \pm 0.015$   $\chi^2/\text{NDF}: 442285.0/23$

All:  $-39.859 \pm 0.007$   $\chi^2/\text{NDF}: 883569.9/44$

# dit\_usl\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}: 28797.3/14$

Left Out:  $0.909 \pm 0.017$   $\chi^2/\text{NDF}: 10113.3/6$

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}: 12719.3/16$

Left In:  $1.305 \pm 0.012$   $\chi^2/\text{NDF}: 3068.3/5$

Left:  $1.176 \pm 0.010$   $\chi^2/\text{NDF}: 13538.9/12$

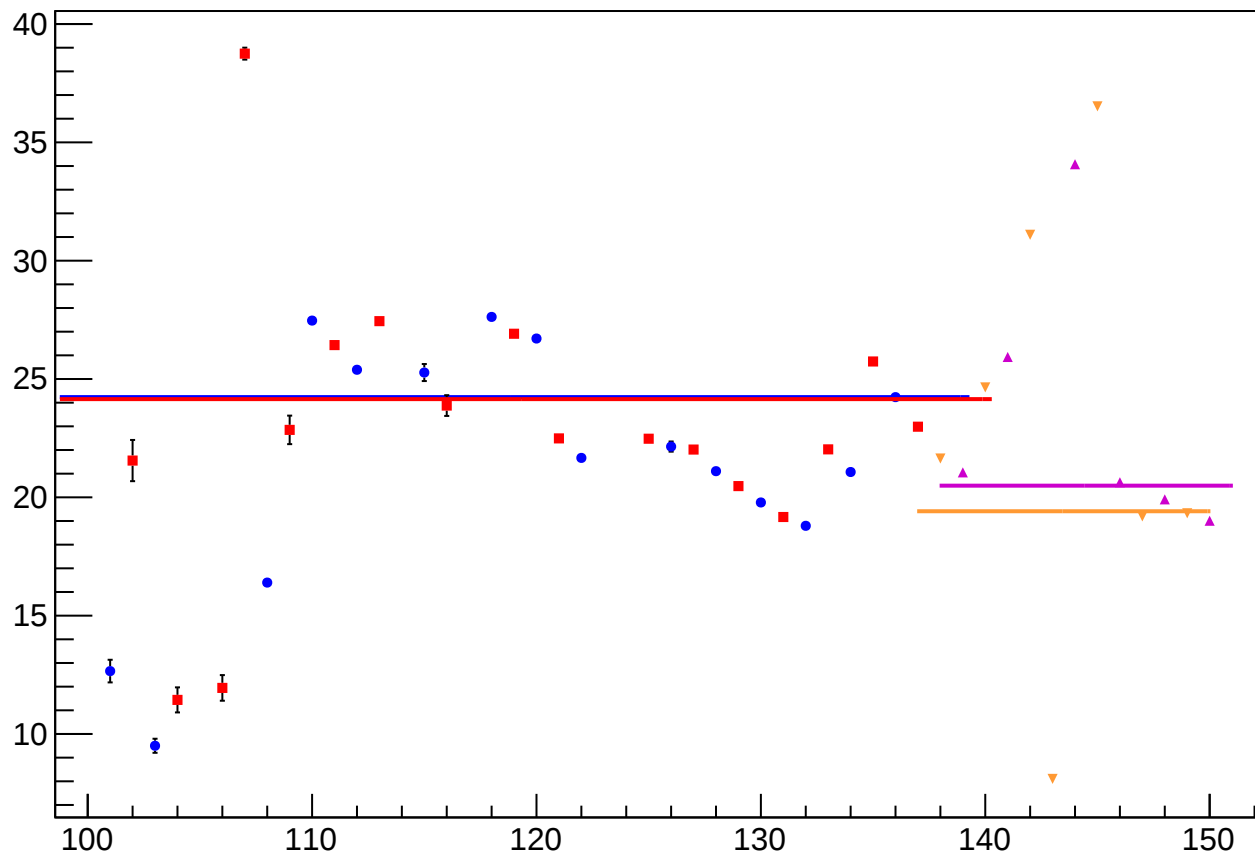
Right:  $-2.227 \pm 0.012$   $\chi^2/\text{NDF}: 41975.5/31$

In:  $-0.240 \pm 0.009$   $\chi^2/\text{NDF}: 71288.5/20$

Out:  $0.150 \pm 0.015$   $\chi^2/\text{NDF}: 29549.0/23$

All:  $-0.129 \pm 0.008$   $\chi^2/\text{NDF}: 101356.6/44$

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.235+/-0.022  $\chi^2/\text{NDF}$ : 21896.9/14

Left Out: 19.412+/-0.023  $\chi^2/\text{NDF}$ : 38001.7/6

Right Out: 24.150+/-0.024  $\chi^2/\text{NDF}$ : 13222.6/16

Left In: 20.493+/-0.016  $\chi^2/\text{NDF}$ : 32470.2/5

Left: 20.154+/-0.013  $\chi^2/\text{NDF}$ : 71963.7/12

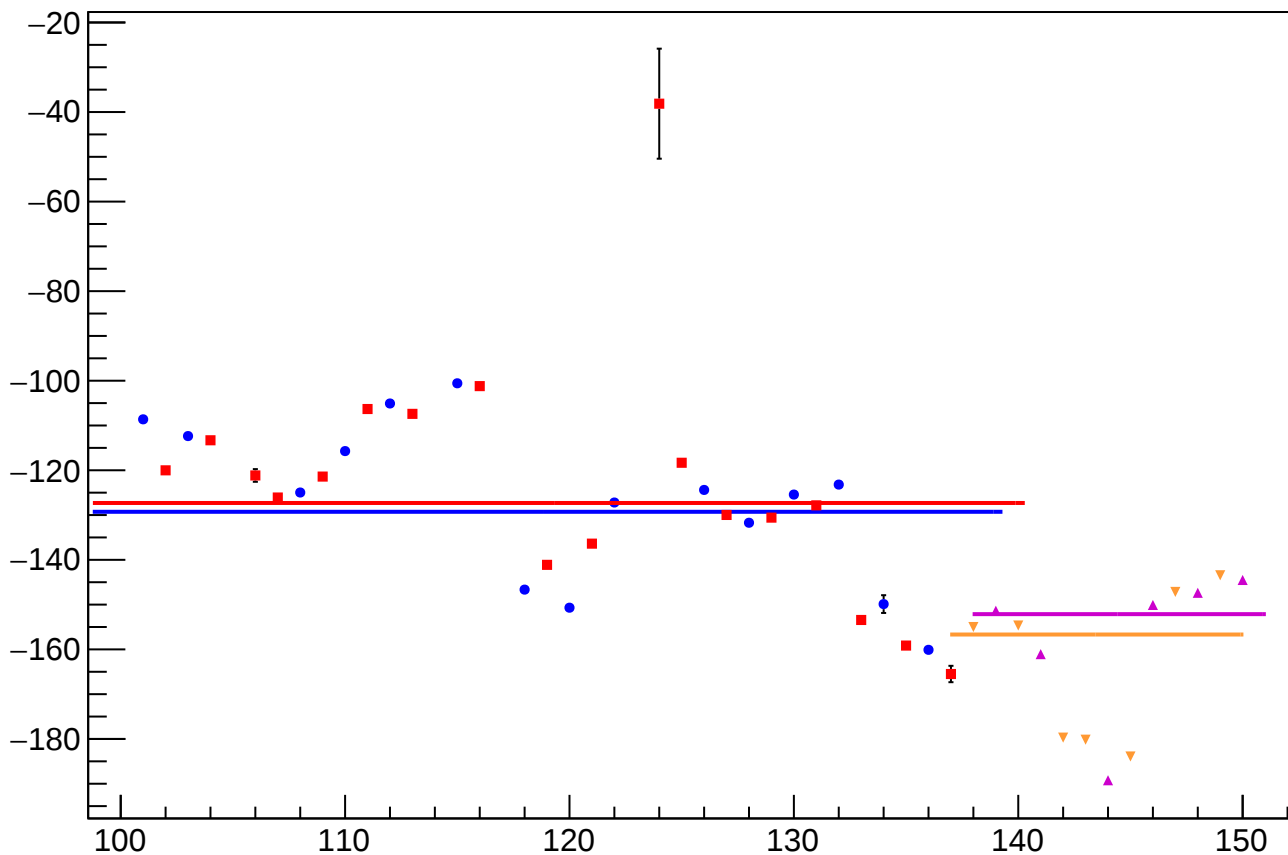
Right: 24.197+/-0.016  $\chi^2/\text{NDF}$ : 35126.2/31

In: 21.751+/-0.013  $\chi^2/\text{NDF}$ : 73534.5/20

Out: 21.664+/-0.017  $\chi^2/\text{NDF}$ : 71059.7/23

All: 21.719+/-0.010  $\chi^2/\text{NDF}$ : 144611.3/44

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}: 35109.7/14$

Left Out:  $-156.679 \pm 0.101$   $\chi^2/\text{NDF}: 19345.5/6$

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}: 29597.3/17$

Left In:  $-152.128 \pm 0.085$   $\chi^2/\text{NDF}: 15948.6/5$

Left:  $-153.994 \pm 0.065$   $\chi^2/\text{NDF}: 36482.3/12$

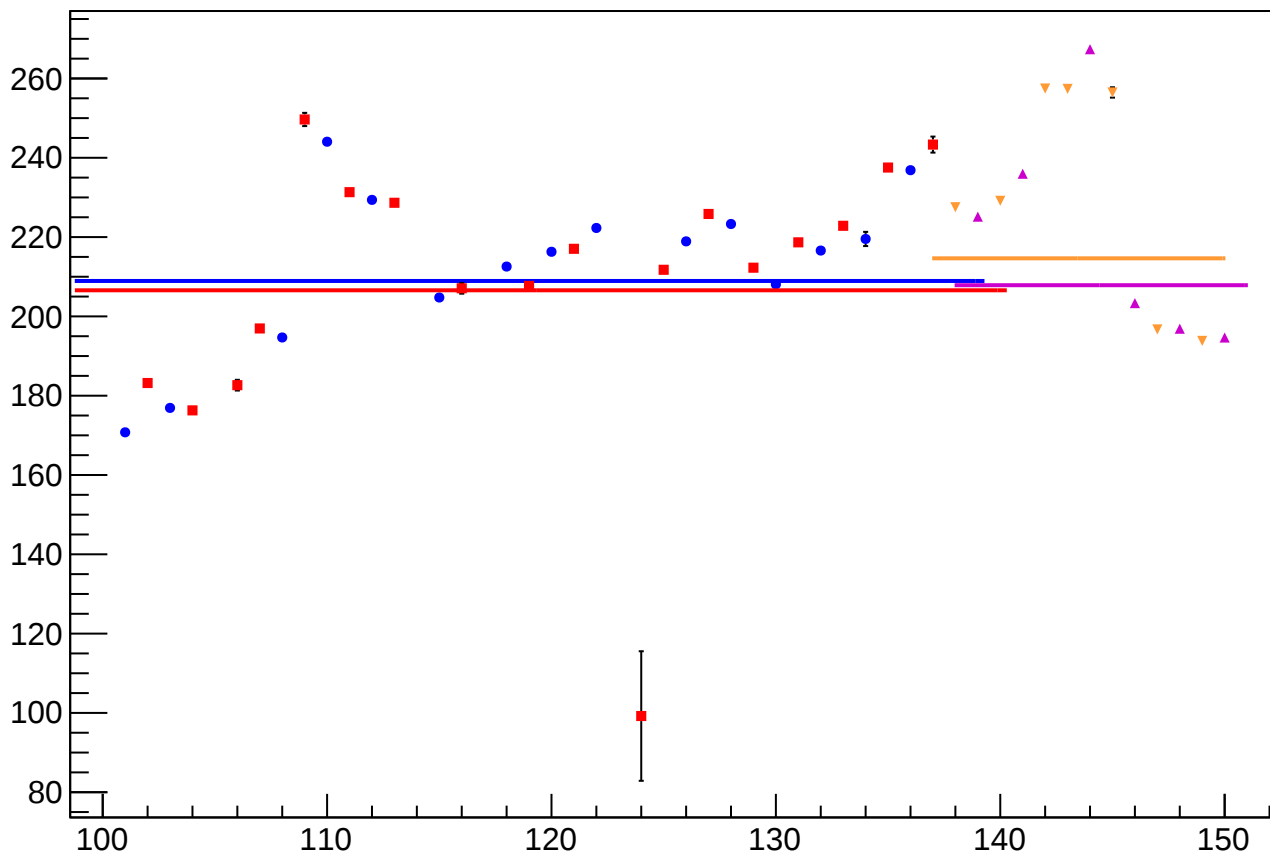
Right:  $-128.248 \pm 0.061$   $\chi^2/\text{NDF}: 64968.8/32$

In:  $-141.127 \pm 0.061$   $\chi^2/\text{NDF}: 86226.3/20$

Out:  $-139.309 \pm 0.065$   $\chi^2/\text{NDF}: 98554.8/24$

All:  $-140.275 \pm 0.044$   $\chi^2/\text{NDF}: 185198.7/45$

# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 208.934 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 44684.8/14

Left Out: 214.644 $\pm$ 0.090  $\chi^2/\text{NDF}$ : 75685.1/6

Right Out: 206.581 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 48210.8/17

Left In: 207.864 $\pm$ 0.076  $\chi^2/\text{NDF}$ : 62120.7/5

Left: 210.675 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 141109.4/12

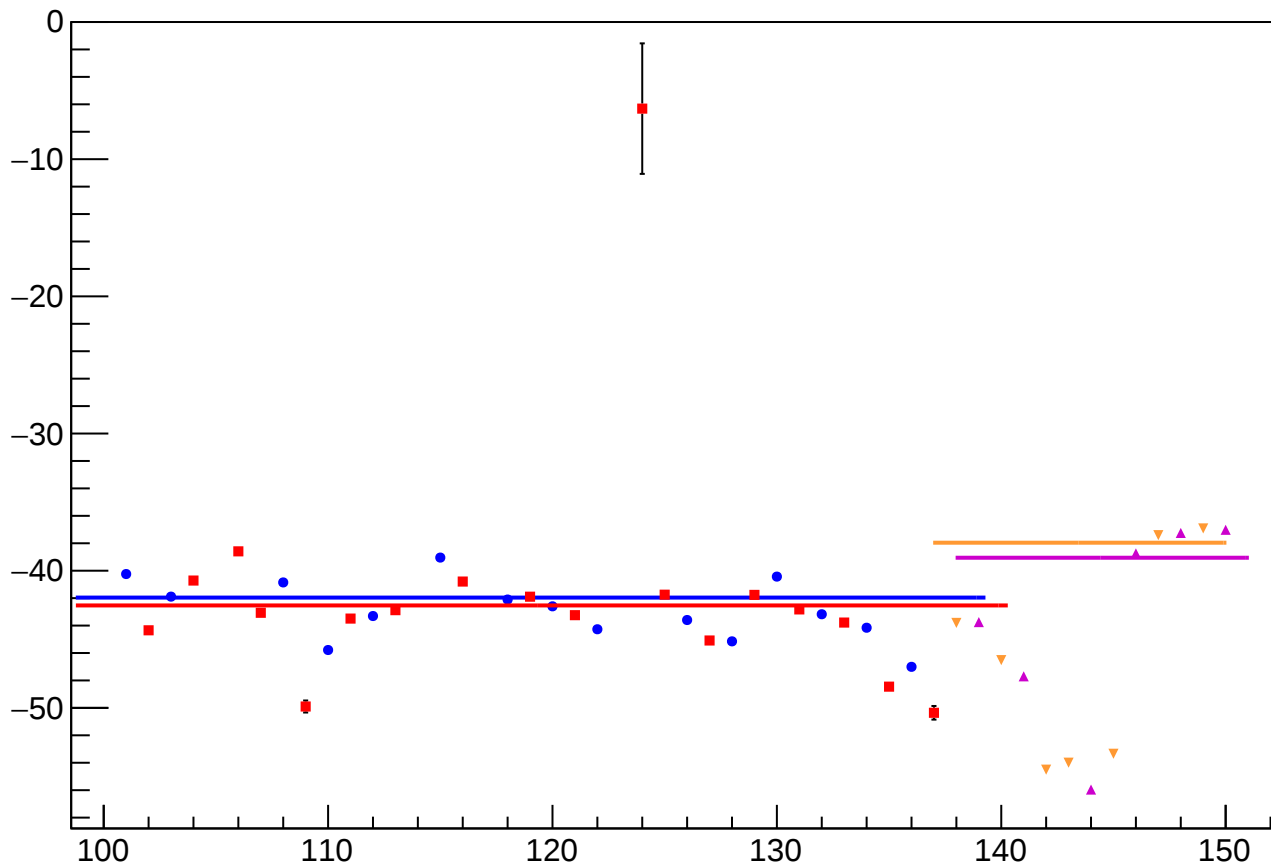
Right: 207.675 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 93267.6/32

In: 208.314 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 106888.9/20

Out: 210.284 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 128211.0/24

All: 209.244 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 235648.1/45

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected

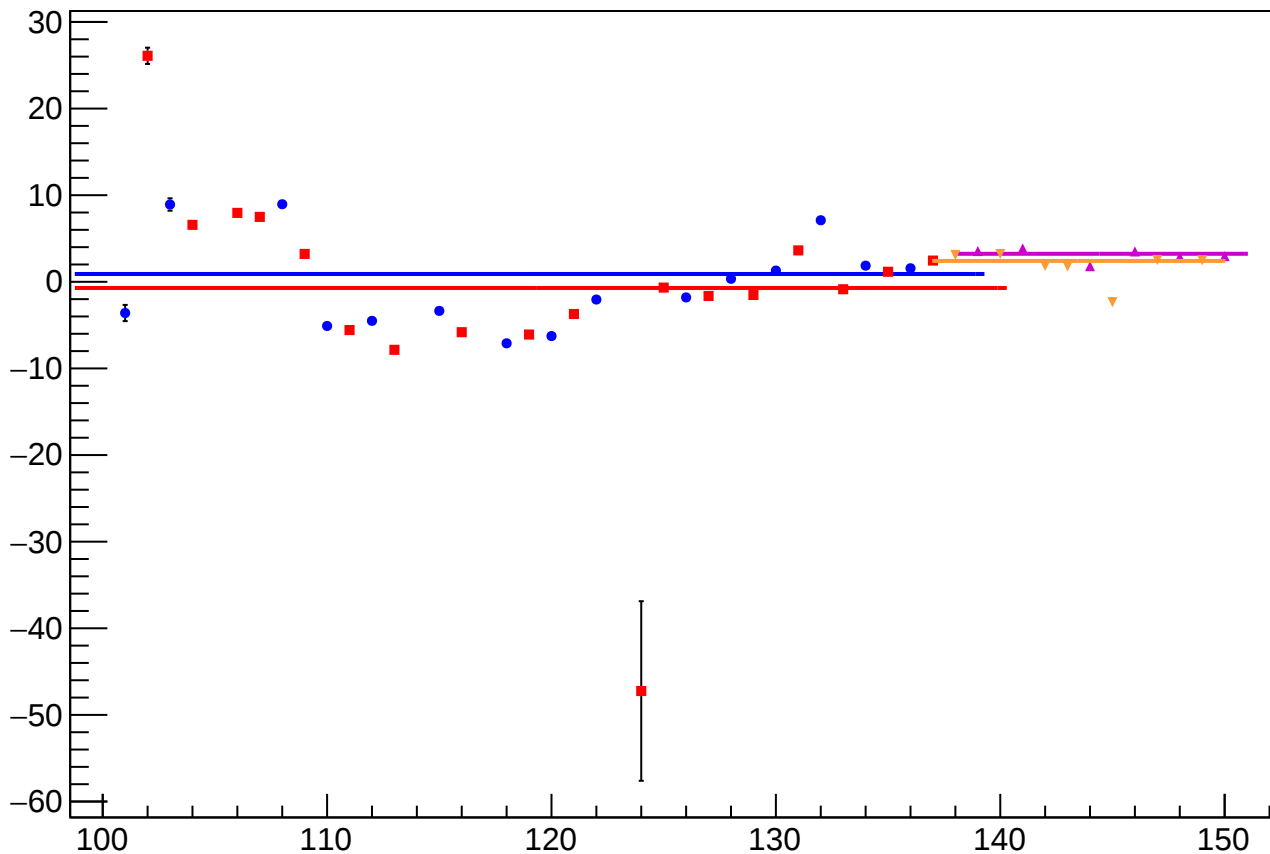


Right In: -41.959 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 24229.7/14  
 Left Out: -37.959 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 205437.2/6  
 Right Out: -42.532 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 6137.0/17  
 Left In: -39.055 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 113657.2/5

Left: -38.302 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 326118.5/12  
 Right: -42.168 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 30855.6/32  
 In: -40.000 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 161257.7/20  
 Out: -38.468 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 255138.7/24

All: -39.043 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 434891.4/45

# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In: 0.903 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 21140.4/14

Left Out: 2.412 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 5120.9/6

Right Out: -0.711 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 30723.8/17

Left In: 3.236 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 1402.0/5

Left: 2.864 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 8188.5/12

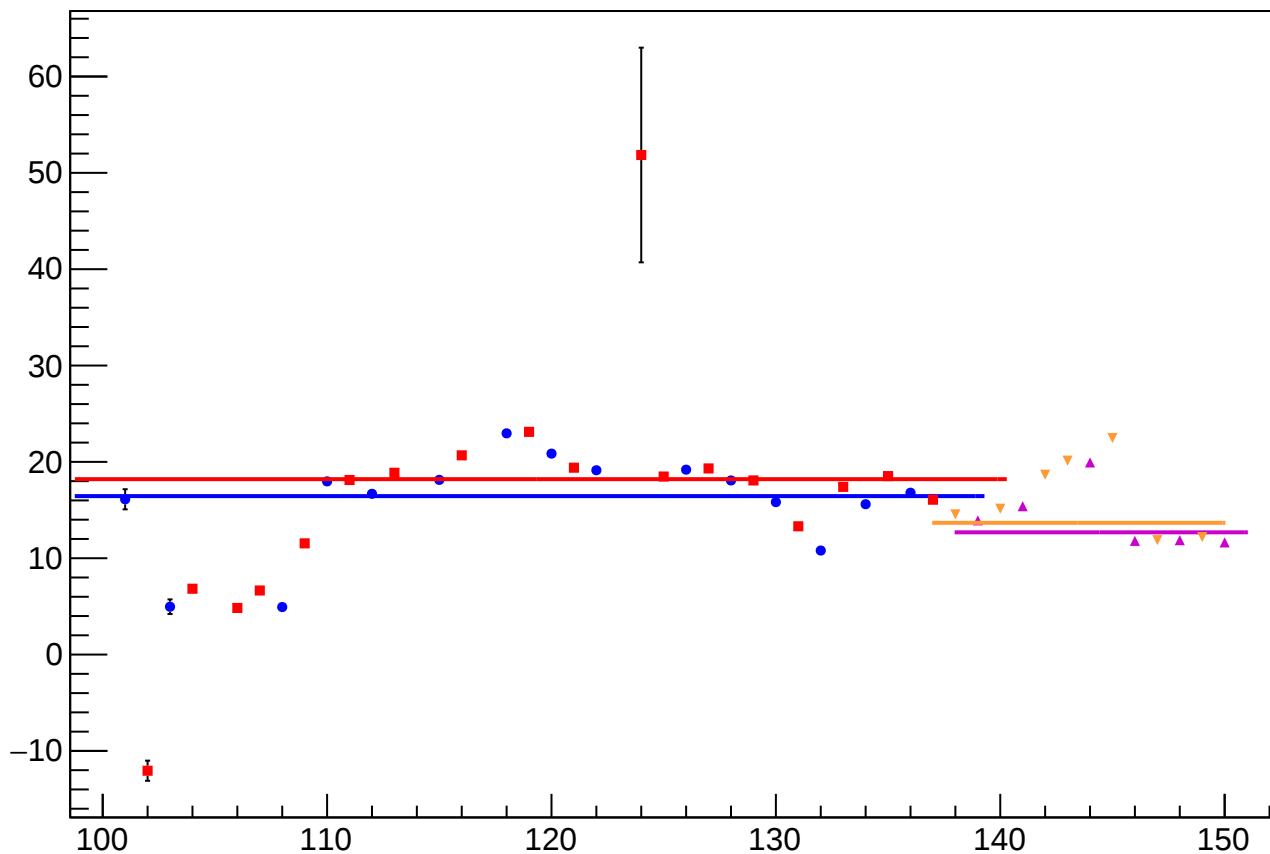
Right: 0.250 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 54492.0/32

In: 2.503 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 31829.8/20

Out: 1.553 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 47819.2/24

All: 2.088 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 82774.8/45

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 13.676 $\pm$ 0.015  $\chi^2$ /NDF: 37662.6/6

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

Left In: 12.688 $\pm$ 0.015  $\chi^2$ /NDF: 13850.1/5

Left: 13.198 $\pm$ 0.011  $\chi^2$ /NDF: 53676.3/12

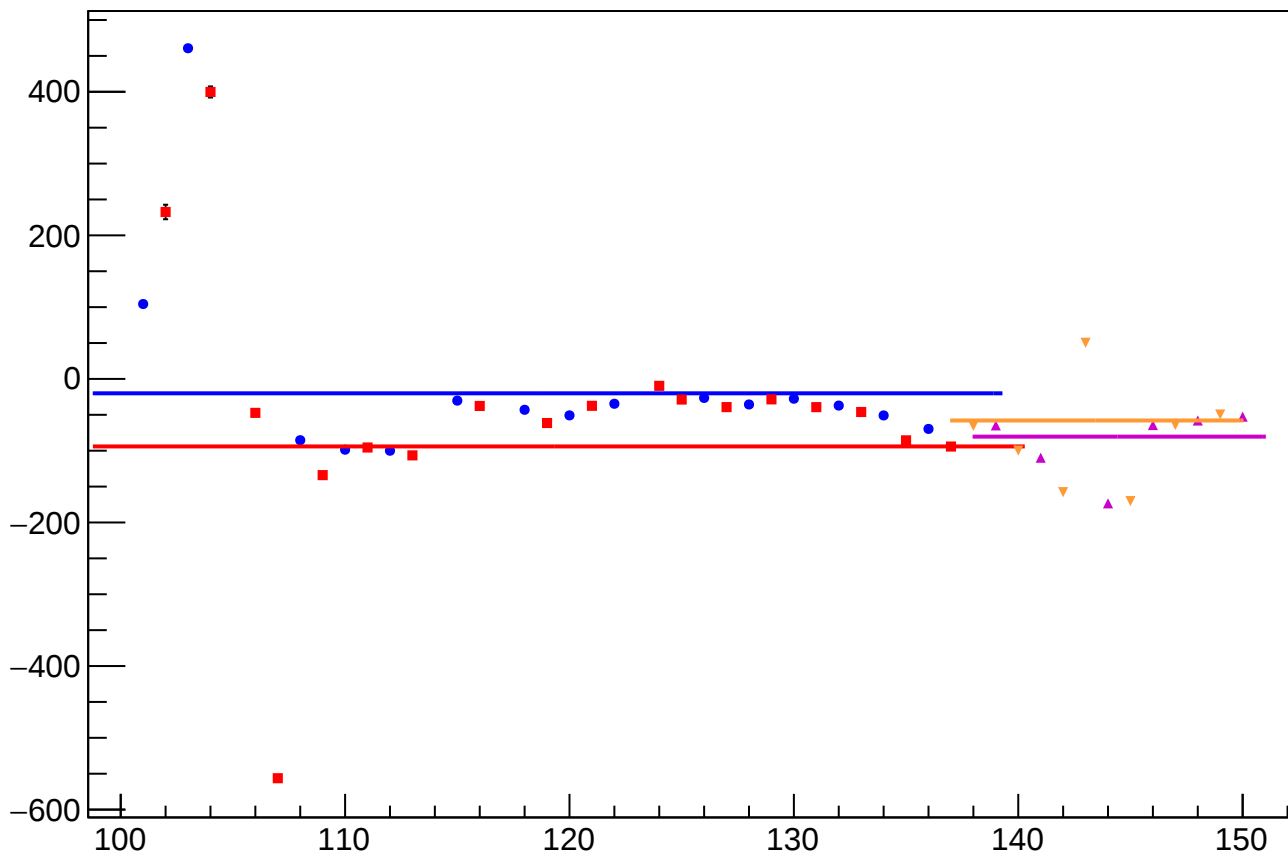
Right: 17.482 $\pm$ 0.016  $\chi^2$ /NDF: 44731.9/32

In: 13.745 $\pm$ 0.013  $\chi^2$ /NDF: 45089.3/20

Out: 15.232 $\pm$ 0.012  $\chi^2$ /NDF: 97447.1/24

All: 14.546 $\pm$ 0.009  $\chi^2$ /NDF: 149651.7/45

# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-57.916 \pm 0.203$   $\chi^2/\text{NDF}: 43472.5/6$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

Left In:  $-80.416 \pm 0.217$   $\chi^2/\text{NDF}: 31182.0/5$

Left:  $-68.405 \pm 0.148$   $\chi^2/\text{NDF}: 80403.3/12$

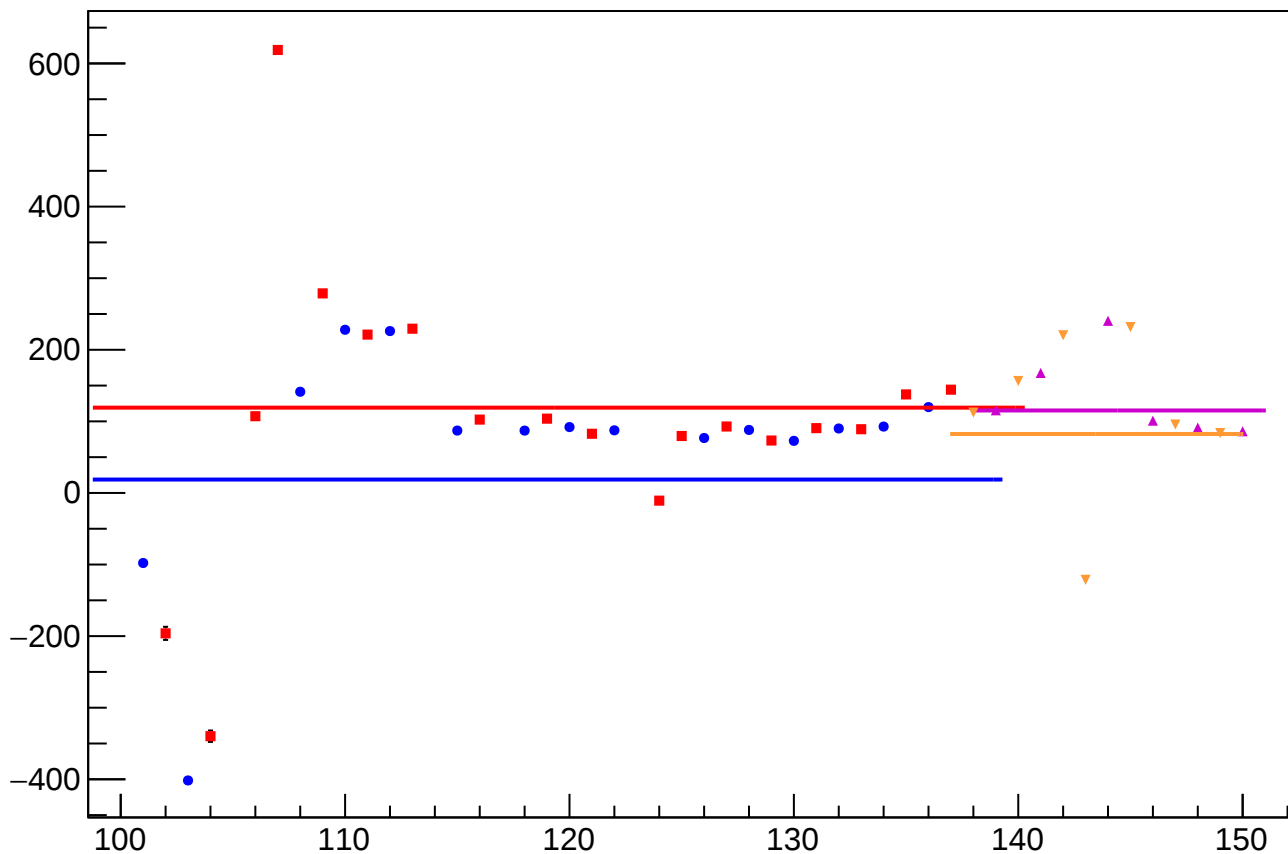
Right:  $-93.566 \pm 0.012$   $\chi^2/\text{NDF}: 760844.5/32$

In:  $-40.149 \pm 0.125$   $\chi^2/\text{NDF}: 524345.9/20$

Out:  $-93.915 \pm 0.012$   $\chi^2/\text{NDF}: 162645.5/24$

All:  $-93.391 \pm 0.012$   $\chi^2/\text{NDF}: 869933.6/45$

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In: 18.731 $\pm$ 0.152  $\chi^2$ /NDF: 1101803.8/14

Left Out: 82.324 $\pm$ 0.187  $\chi^2$ /NDF:161474.6/6

Right Out: 119.167 $\pm$ 0.199  $\chi^2$ /NDF: 87450.0/17

Left In: 115.225 $\pm$ 0.193  $\chi^2$ /NDF:50860.6/5

Left: 98.245 $\pm$ 0.134  $\chi^2$ /NDF: 227304.3/12

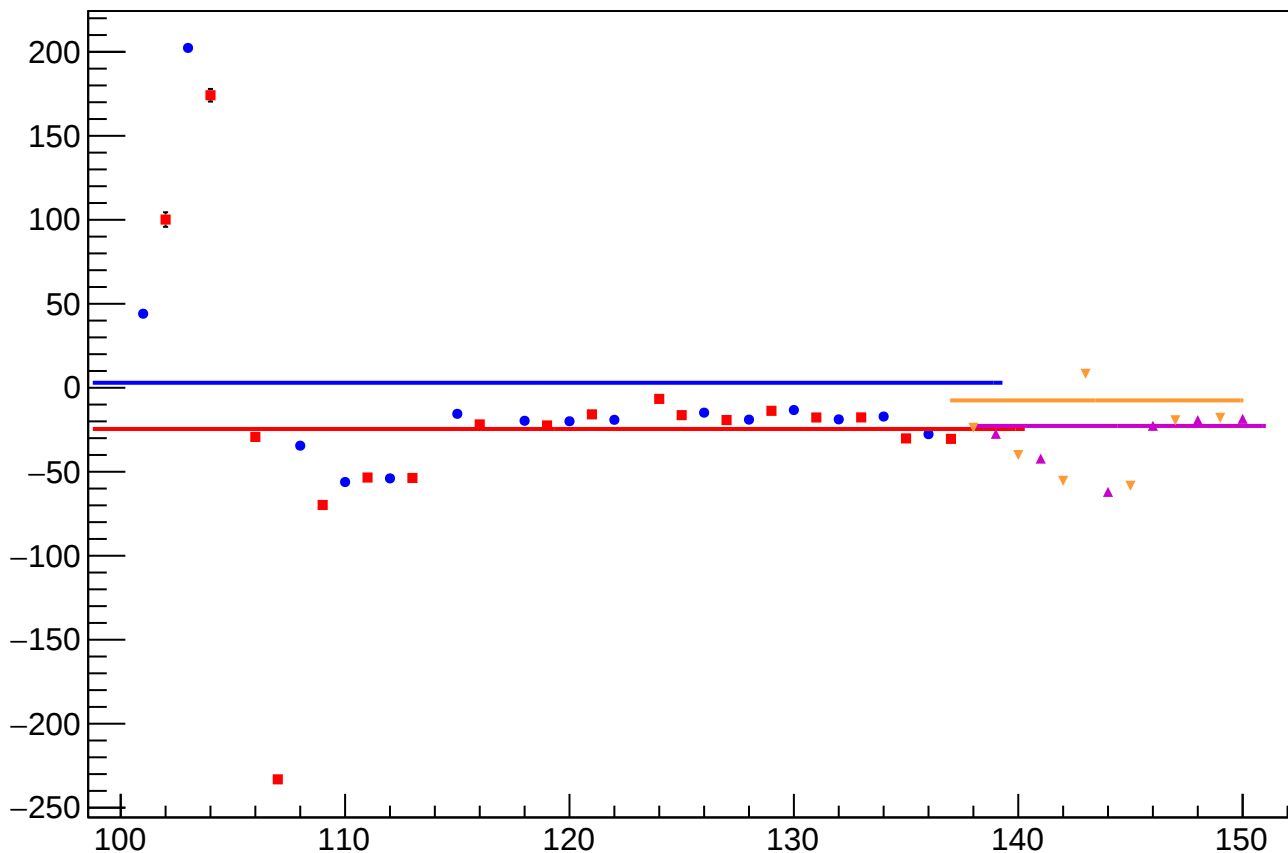
Right: 55.701 $\pm$ 0.121  $\chi^2$ /NDF: 1349806.5/32

In: 55.649 $\pm$ 0.119  $\chi^2$ /NDF:1306698.2/20

Out: 99.584 $\pm$ 0.136  $\chi^2$ /NDF:267098.0/24

All: 74.730 $\pm$ 0.090  $\chi^2$ /NDF: 1632505.7/45

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-7.520 \pm 0.026$   $\chi^2/\text{NDF}: 370946.1/6$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

Left In:  $-22.725 \pm 0.027$   $\chi^2/\text{NDF}: 114529.8/5$

Left:  $-14.901 \pm 0.019$   $\chi^2/\text{NDF}: 649538.8/12$

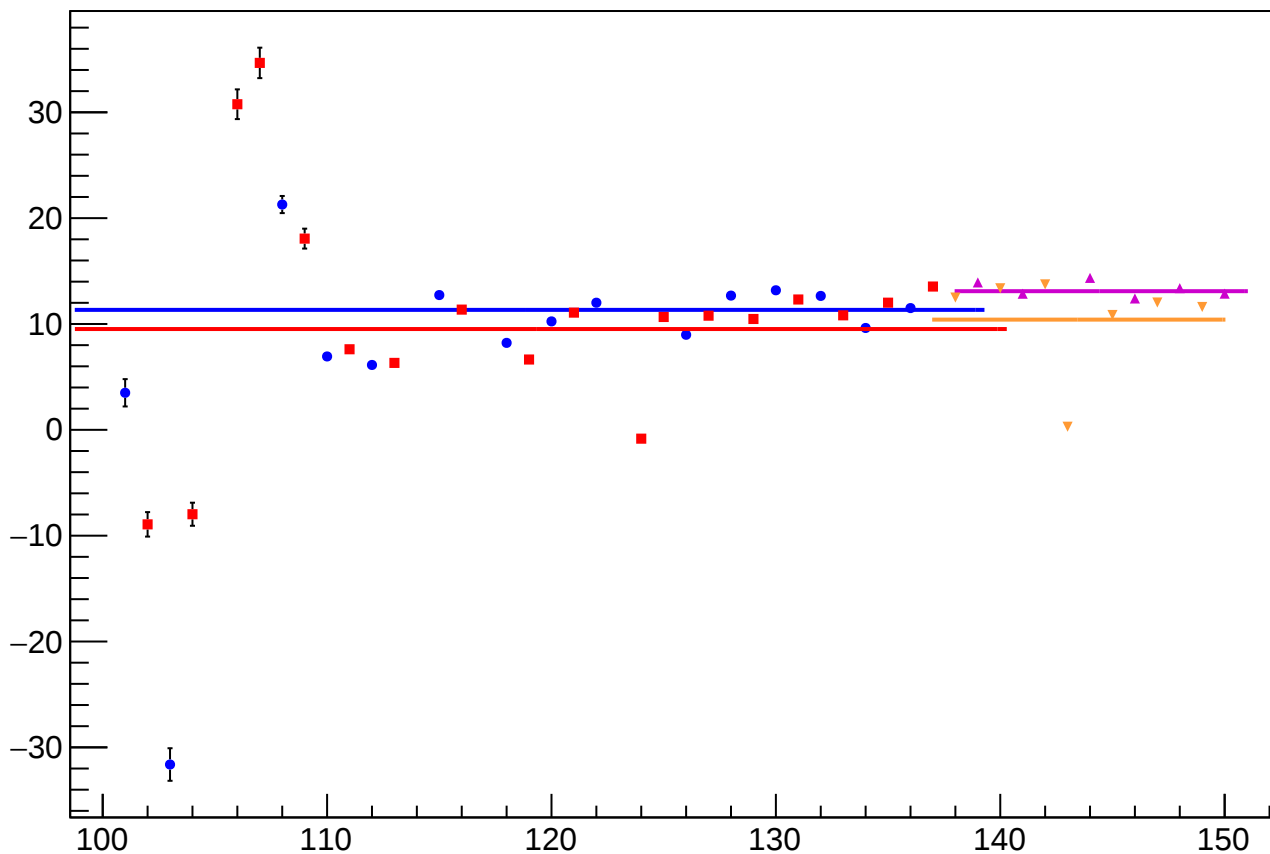
Right:  $-4.585 \pm 0.023$   $\chi^2/\text{NDF}: 3961708.4/32$

In:  $-9.847 \pm 0.019$   $\chi^2/\text{NDF}: 4067972.4/20$

Out:  $-12.018 \pm 0.022$   $\chi^2/\text{NDF}: 659308.8/24$

All:  $-10.755 \pm 0.015$   $\chi^2/\text{NDF}: 4732729.3/45$

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 11.334 $\pm$ 0.037  $\chi^2$ /NDF: 2406.0/14

Left Out: 10.413 $\pm$ 0.029  $\chi^2$ /NDF:24782.9/6

Right Out: 9.524 $\pm$ 0.048  $\chi^2$ /NDF: 4066.9/17

Left In: 13.100 $\pm$ 0.025  $\chi^2$ /NDF:432.7/5

Left: 11.975 $\pm$ 0.019  $\chi^2$ /NDF: 30155.8/12

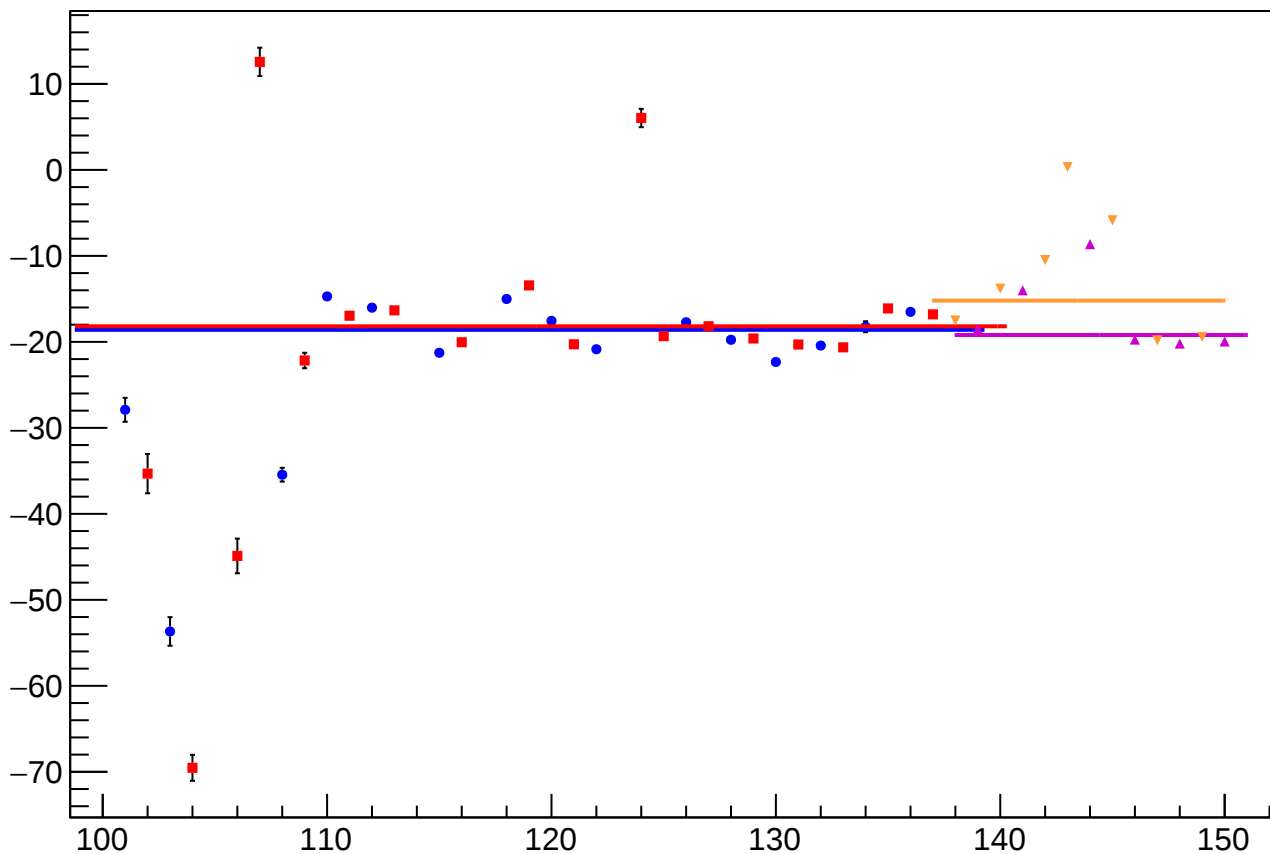
Right: 10.651 $\pm$ 0.029  $\chi^2$ /NDF: 7358.3/32

In: 12.562 $\pm$ 0.021  $\chi^2$ /NDF:4391.2/20

Out: 10.174 $\pm$ 0.025  $\chi^2$ /NDF:29100.6/24

All: 11.590 $\pm$ 0.016  $\chi^2$ /NDF: 38943.2/45

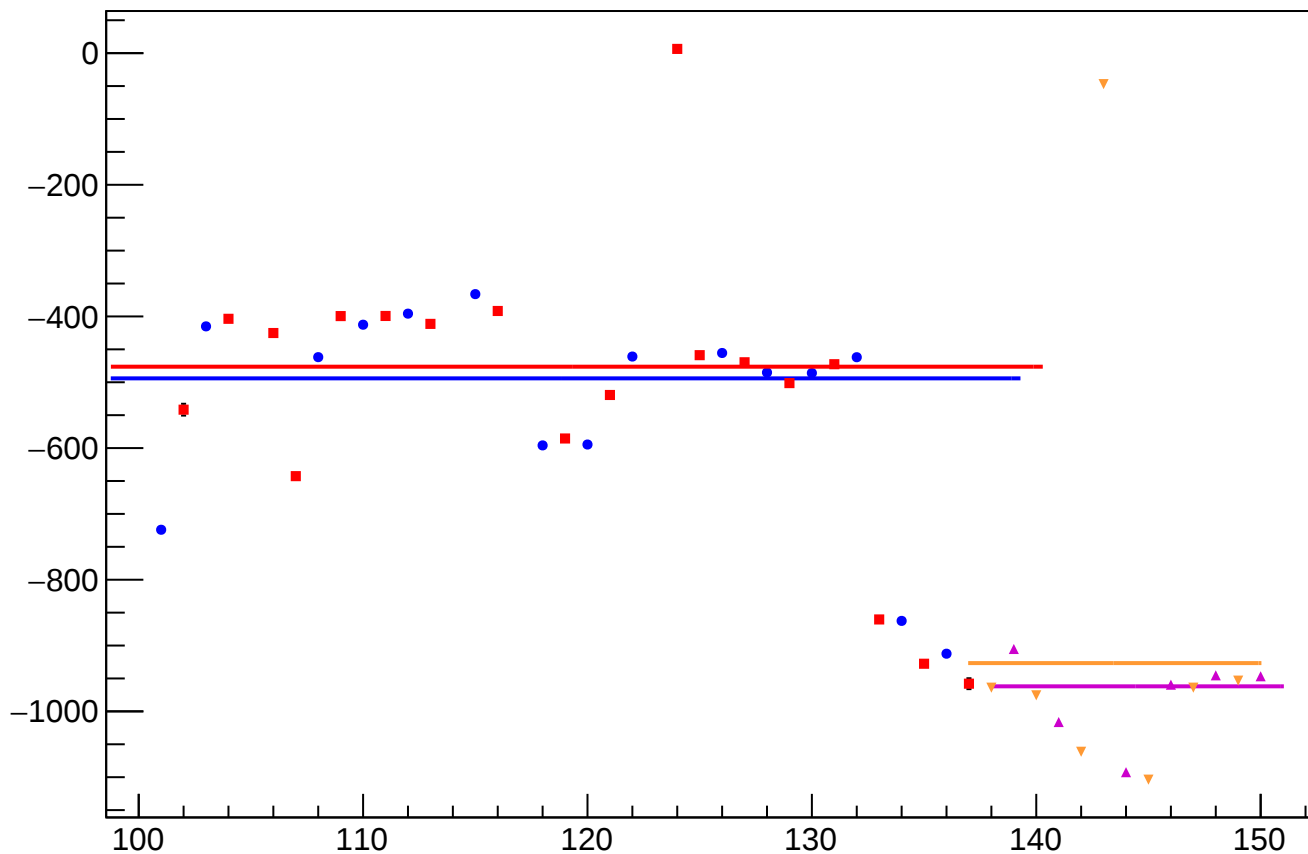
# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}: 6189.1/14$   
 Left Out:  $-15.200 \pm 0.034$   $\chi^2/\text{NDF}: 36334.3/6$   
 Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}: 4881.1/17$   
 Left In:  $-19.202 \pm 0.029$   $\chi^2/\text{NDF}: 6036.0/5$

Left:  $-17.537 \pm 0.022$   $\chi^2/\text{NDF}: 50438.1/12$   
 Right:  $-18.450 \pm 0.030$   $\chi^2/\text{NDF}: 11113.5/32$   
 In:  $-18.976 \pm 0.023$   $\chi^2/\text{NDF}: 12391.3/20$   
 Out:  $-16.161 \pm 0.028$   $\chi^2/\text{NDF}: 43694.0/24$   
 All:  $-17.860 \pm 0.018$   $\chi^2/\text{NDF}: 62161.6/45$

# dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In: -494.081+/-0.232  $\chi^2/\text{NDF}$ : 325996.5/14

Left Out: -926.660+/-0.383  $\chi^2/\text{NDF}$ : 295340.2/6

Right Out: -476.348+/-0.185  $\chi^2/\text{NDF}$ : 594116.3/17

Left In: -961.962+/-0.352  $\chi^2/\text{NDF}$ : 16252.4/5

Left: -945.781+/-0.259  $\chi^2/\text{NDF}$ : 316205.6/12

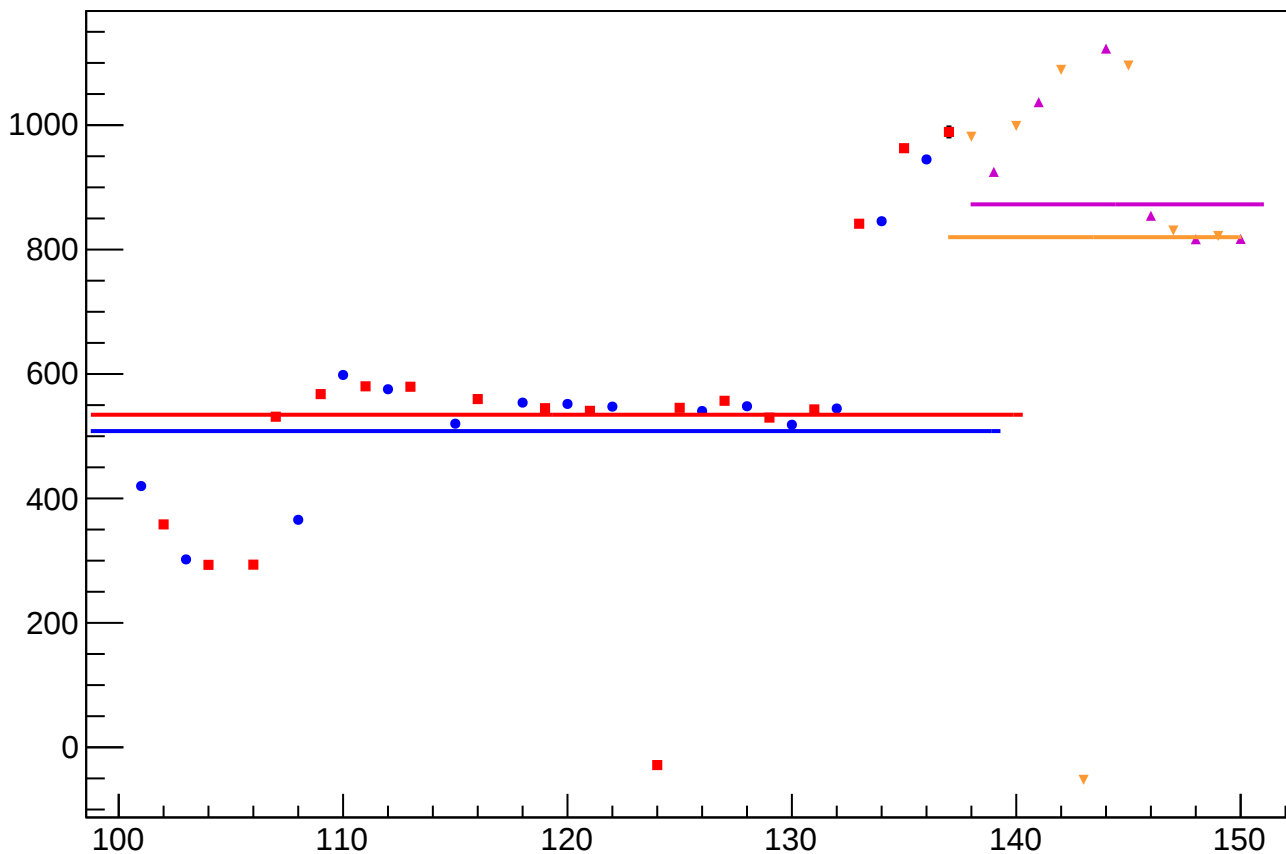
Right: -483.243+/-0.145  $\chi^2/\text{NDF}$ : 923680.3/32

In: -635.921+/-0.194  $\chi^2/\text{NDF}$ : 1574194.1/20

Out: -561.803+/-0.167  $\chi^2/\text{NDF}$ : 2012261.5/24

All: -593.318+/-0.126  $\chi^2/\text{NDF}$ : 3670573.7/45

# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 508.267 $\pm$ 0.222  $\chi^2$ /NDF: 439489.9/14

Left Out: 819.947 $\pm$ 0.349  $\chi^2$ /NDF:401553.2/6

Right Out: 534.536 $\pm$ 0.217  $\chi^2$ /NDF: 368263.1/17

Left In: 872.672 $\pm$ 0.325  $\chi^2$ /NDF:79883.1/5

Left: 848.240 $\pm$ 0.238  $\chi^2$ /NDF: 493662.7/12

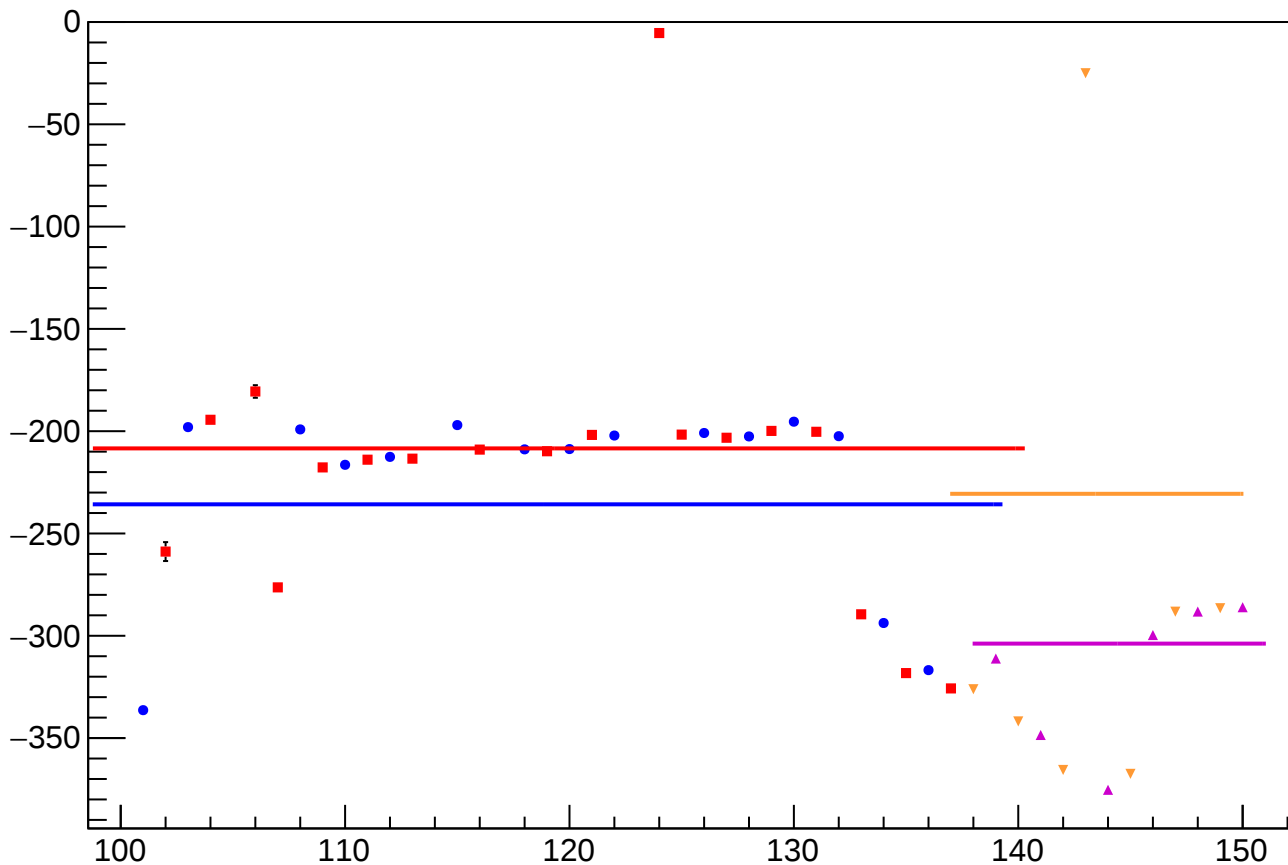
Right: 521.671 $\pm$ 0.155  $\chi^2$ /NDF: 814918.8/32

In: 624.165 $\pm$ 0.183  $\chi^2$ /NDF:1378878.6/20

Out: 614.104 $\pm$ 0.184  $\chi^2$ /NDF:1251313.4/24

All: 619.173 $\pm$ 0.130  $\chi^2$ /NDF: 2631691.1/45

# dit\_atl2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-230.606 \pm 0.050$   $\chi^2/\text{NDF}: 5176564.7/6$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

Left In:  $-303.830 \pm 0.059$   $\chi^2/\text{NDF}: 210642.7/5$

Left:  $-261.399 \pm 0.038$   $\chi^2/\text{NDF}: 6292842.9/12$

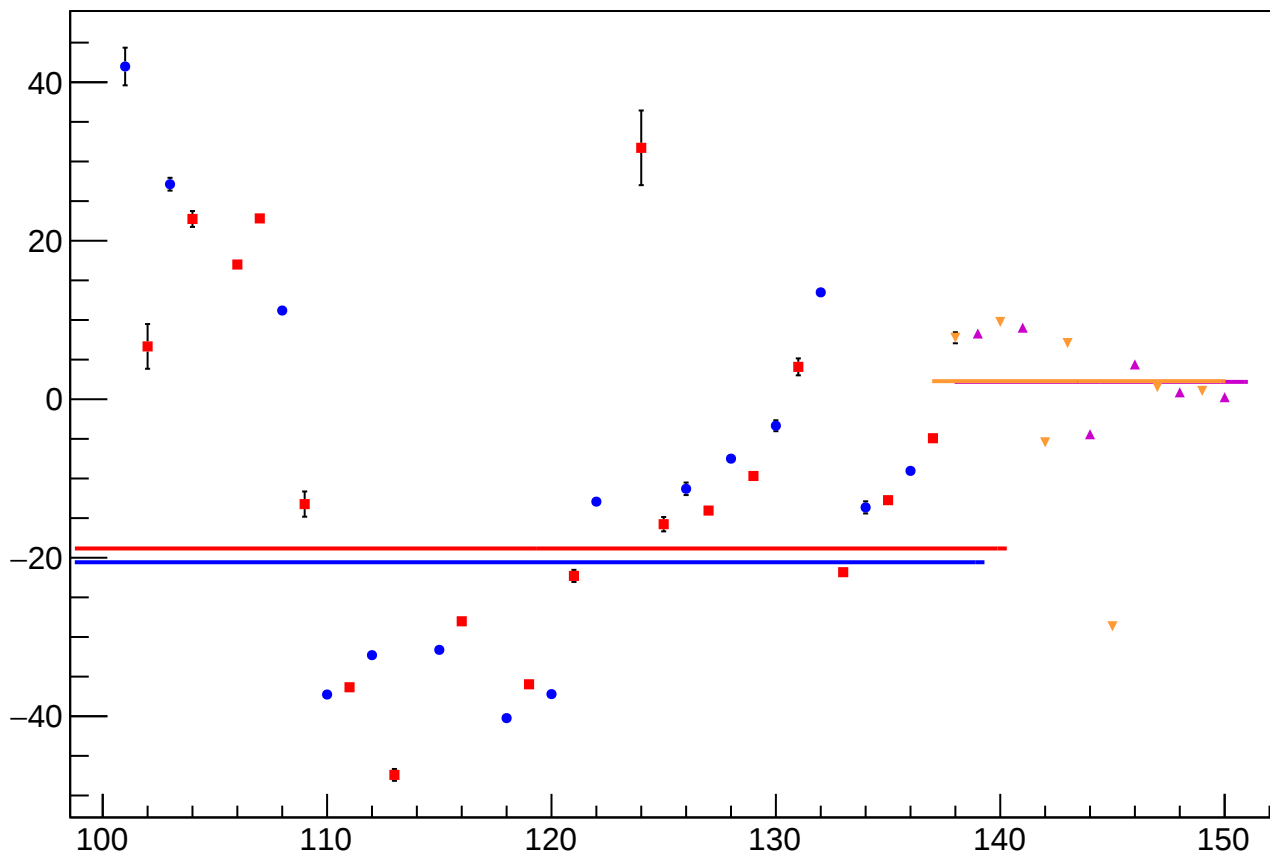
Right:  $-219.823 \pm 0.036$   $\chi^2/\text{NDF}: 1393978.3/32$

In:  $-267.787 \pm 0.040$   $\chi^2/\text{NDF}: 1802118.7/20$

Out:  $-218.786 \pm 0.034$   $\chi^2/\text{NDF}: 5656936.9/24$

All:  $-239.312 \pm 0.026$   $\chi^2/\text{NDF}: 8323314.5/45$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $2.281 \pm 0.050$   $\chi^2/\text{NDF}$ : 7386.0/6

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

Left In:  $2.190 \pm 0.039$   $\chi^2/\text{NDF}$ : 7195.8/5

Left:  $2.224 \pm 0.031$   $\chi^2/\text{NDF}$ : 14583.8/12

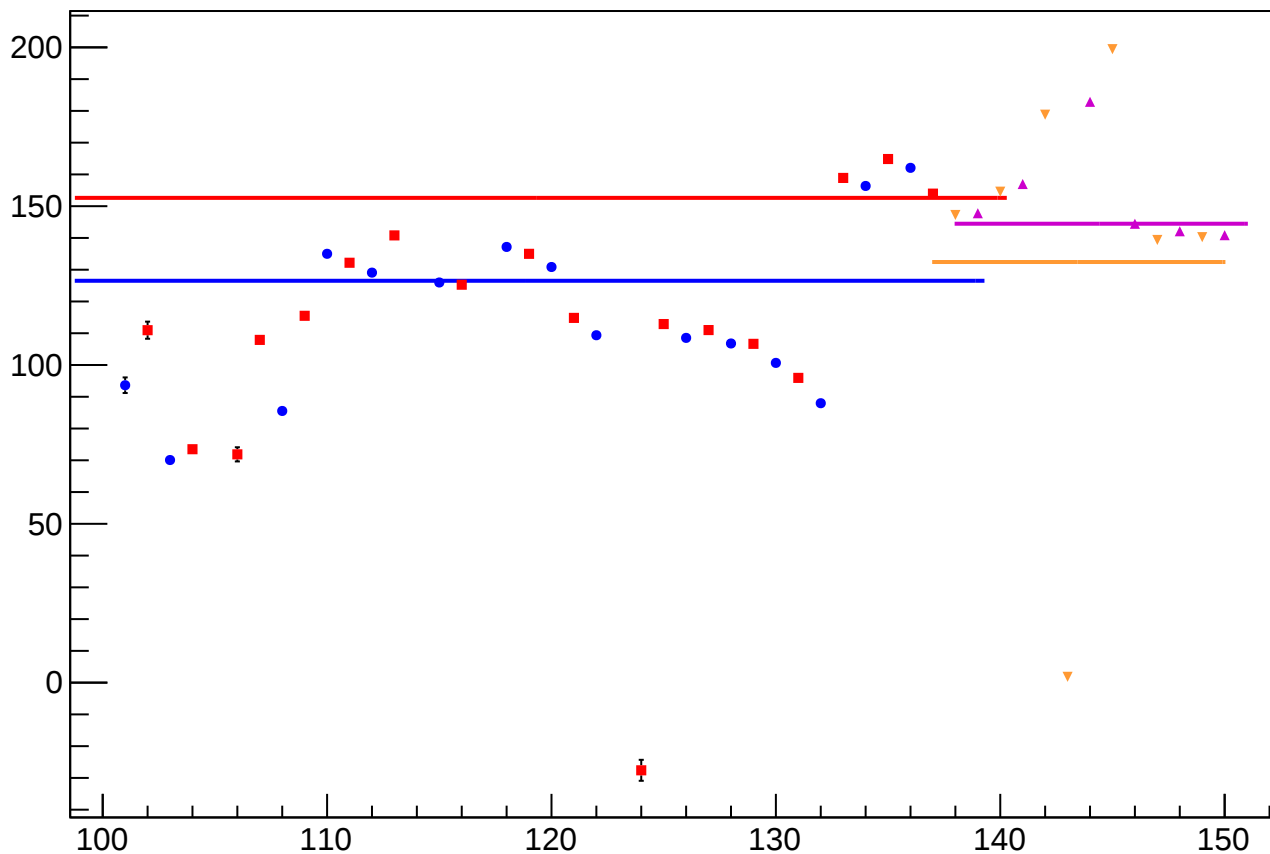
Right:  $-20.041 \pm 0.060$   $\chi^2/\text{NDF}$ : 84439.6/32

In:  $-3.092 \pm 0.034$   $\chi^2/\text{NDF}$ : 148760.8/20

Out:  $-1.479 \pm 0.046$   $\chi^2/\text{NDF}$ : 59643.4/24

All:  $-2.507 \pm 0.027$   $\chi^2/\text{NDF}$ : 209202.0/45

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 132.426 $\pm$ 0.063  $\chi^2$ /NDF: 379132.7/6

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

Left In: 144.477 $\pm$ 0.051  $\chi^2$ /NDF: 20643.9/5

Left: 139.667 $\pm$ 0.040  $\chi^2$ /NDF: 422011.8/12

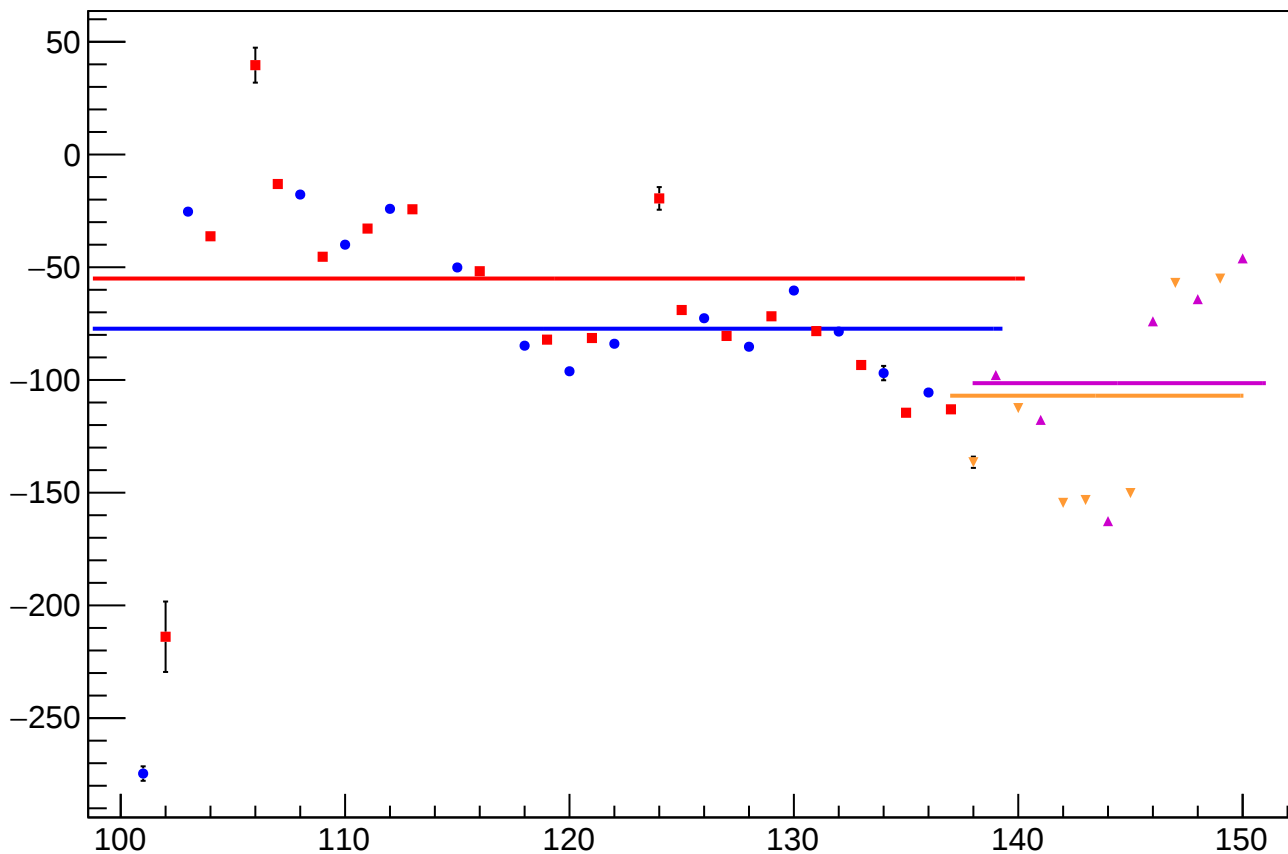
Right: 149.605 $\pm$ 0.029  $\chi^2$ /NDF: 274404.9/32

In: 139.631 $\pm$ 0.044  $\chi^2$ /NDF: 168993.2/20

Out: 148.781 $\pm$ 0.027  $\chi^2$ /NDF: 537308.3/24

All: 146.205 $\pm$ 0.023  $\chi^2$ /NDF: 737893.2/45

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}: 30356.0/14$

Left Out:  $-106.980 \pm 0.225$   $\chi^2/\text{NDF}: 32764.4/6$

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}: 23629.0/17$

Left In:  $-101.420 \pm 0.198$   $\chi^2/\text{NDF}: 37272.6/5$

Left:  $-103.856 \pm 0.149$   $\chi^2/\text{NDF}: 70381.1/12$

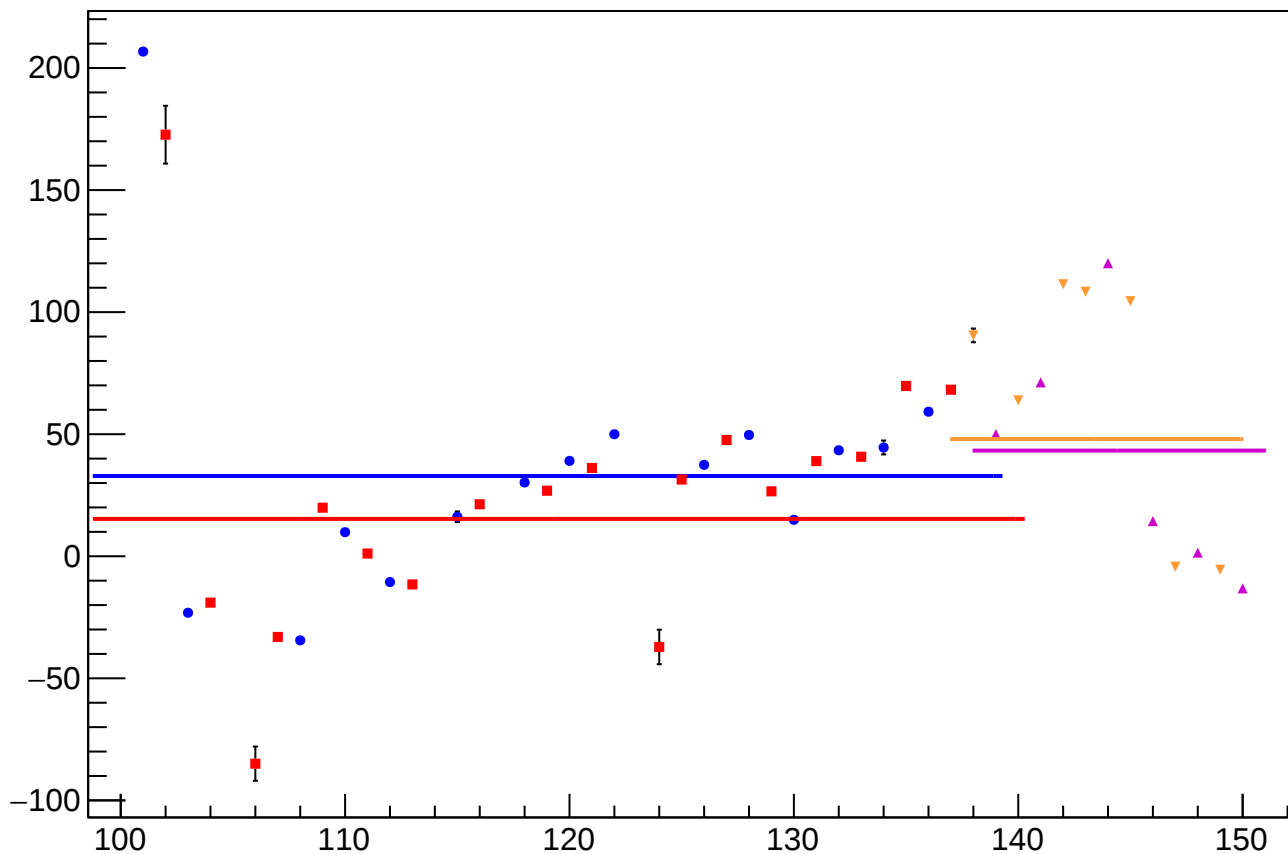
Right:  $-68.980 \pm 0.116$   $\chi^2/\text{NDF}: 62576.3/32$

In:  $-85.781 \pm 0.118$   $\chi^2/\text{NDF}: 77226.6/20$

Out:  $-76.713 \pm 0.145$   $\chi^2/\text{NDF}: 87560.4/24$

All:  $-82.180 \pm 0.091$   $\chi^2/\text{NDF}: 167139.1/45$

# dit\_atr1\_4eX\_slope vs Slug, Sign Corrected



Left: 45.337  $\pm$  0.137  $\chi^2/\text{NDF}$ : 115211.4/12

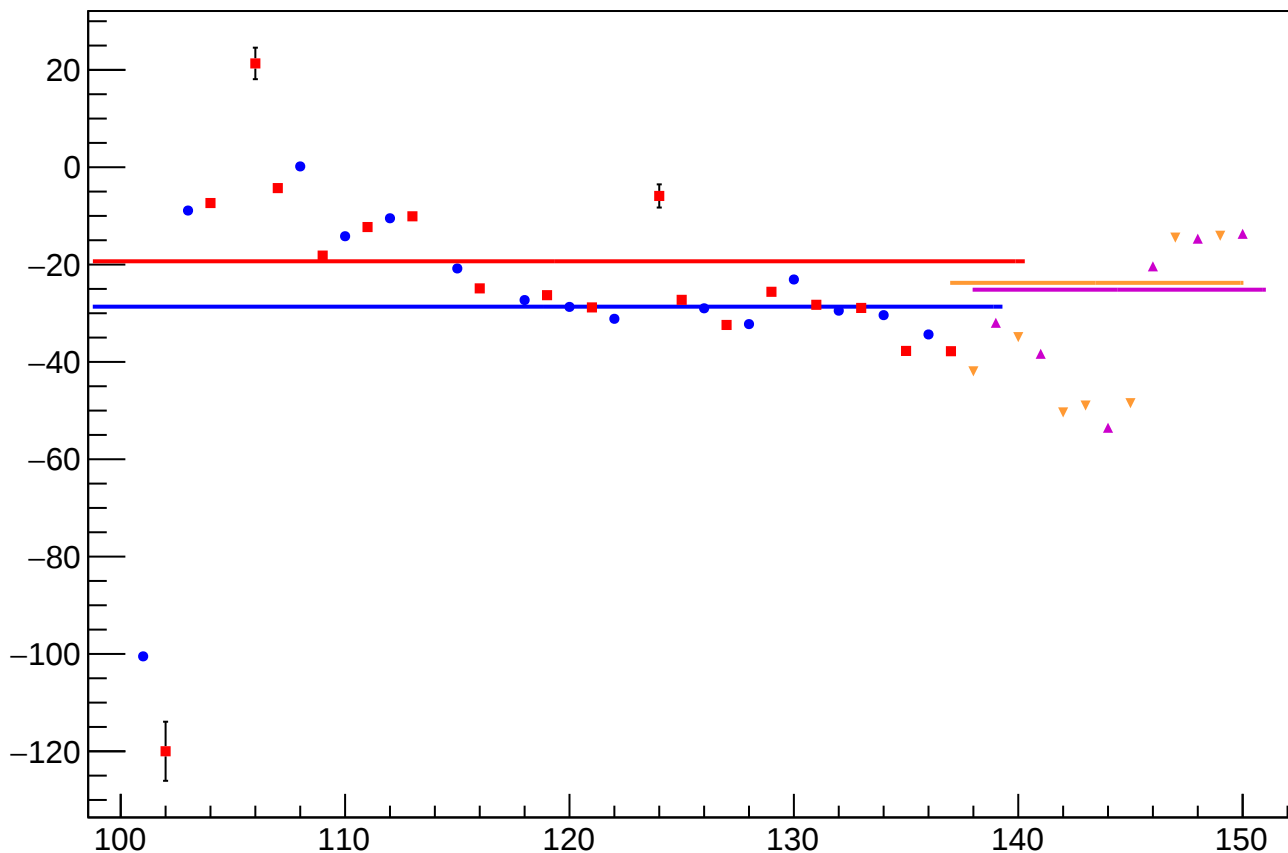
Right: 27.134  $\pm$  0.120  $\chi^2/\text{NDF}$ : 52862.9/32

In: 36.944  $\pm$  0.114  $\chi^2/\text{NDF}$ : 91920.5/20

Out: 31.820  $\pm$  0.148  $\chi^2/\text{NDF}$ : 85408.9/24

All: 35.030  $\pm$  0.090  $\chi^2/\text{NDF}$ : 178085.3/45

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}: 113441.9/14$

Left Out:  $-23.753 \pm 0.034$   $\chi^2/\text{NDF}: 183071.4/6$

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}: 56579.1/17$

Left In:  $-25.161 \pm 0.031$   $\chi^2/\text{NDF}: 139749.7/5$

Left:  $-24.540 \pm 0.023$   $\chi^2/\text{NDF}: 323756.4/12$

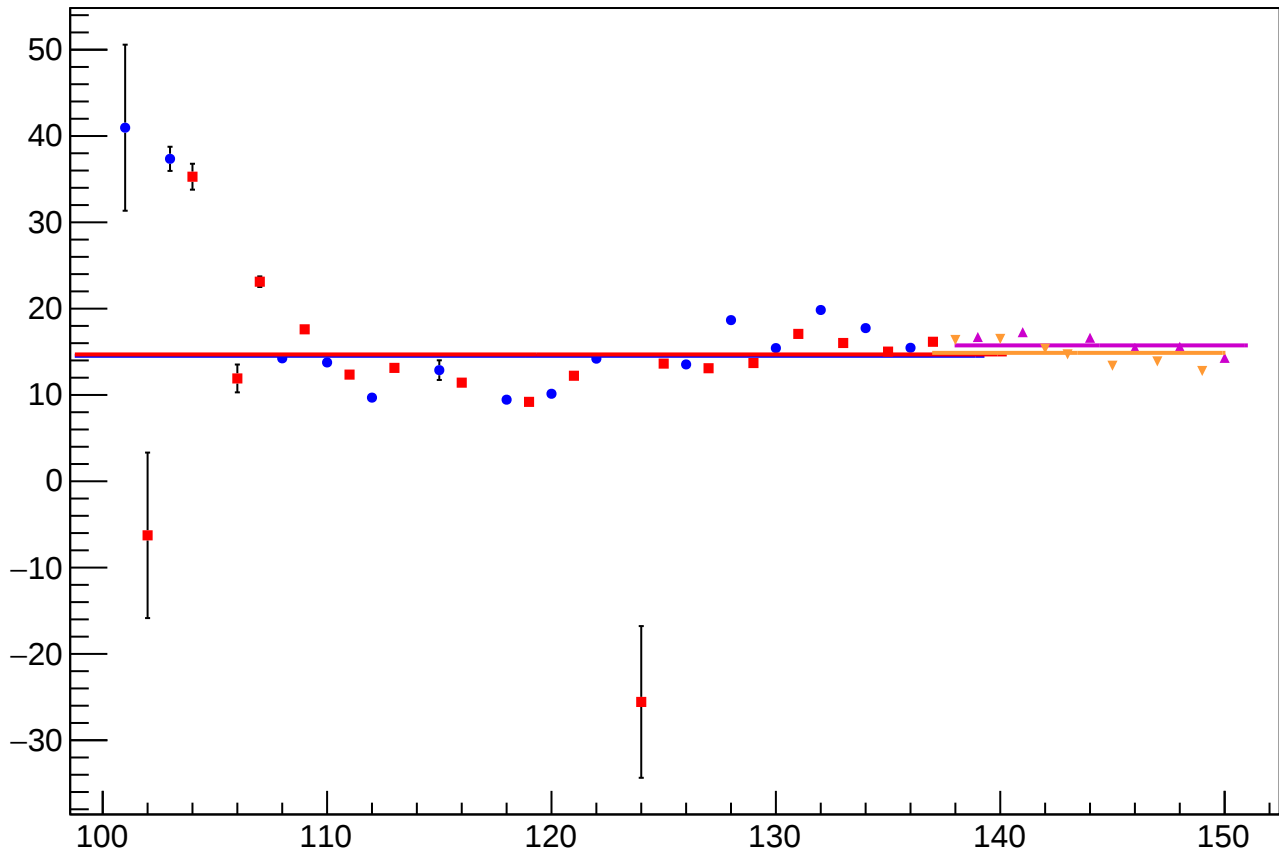
Right:  $-24.627 \pm 0.026$   $\chi^2/\text{NDF}: 201944.0/32$

In:  $-26.708 \pm 0.023$   $\chi^2/\text{NDF}: 258952.7/20$

Out:  $-21.834 \pm 0.026$   $\chi^2/\text{NDF}: 246824.8/24$

All:  $-24.578 \pm 0.017$   $\chi^2/\text{NDF}: 525706.8/45$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 14.539+/-0.030  $\chi^2/\text{NDF}$ : 12071.8/14

Left Out: 14.877+/-0.030  $\chi^2/\text{NDF}$ : 2429.5/6

Right Out: 14.695+/-0.044  $\chi^2/\text{NDF}$ : 1633.0/17

Left In: 15.743+/-0.026  $\chi^2/\text{NDF}$ : 1767.5/5

Left: 15.370+/-0.020  $\chi^2/\text{NDF}$ : 4678.0/12

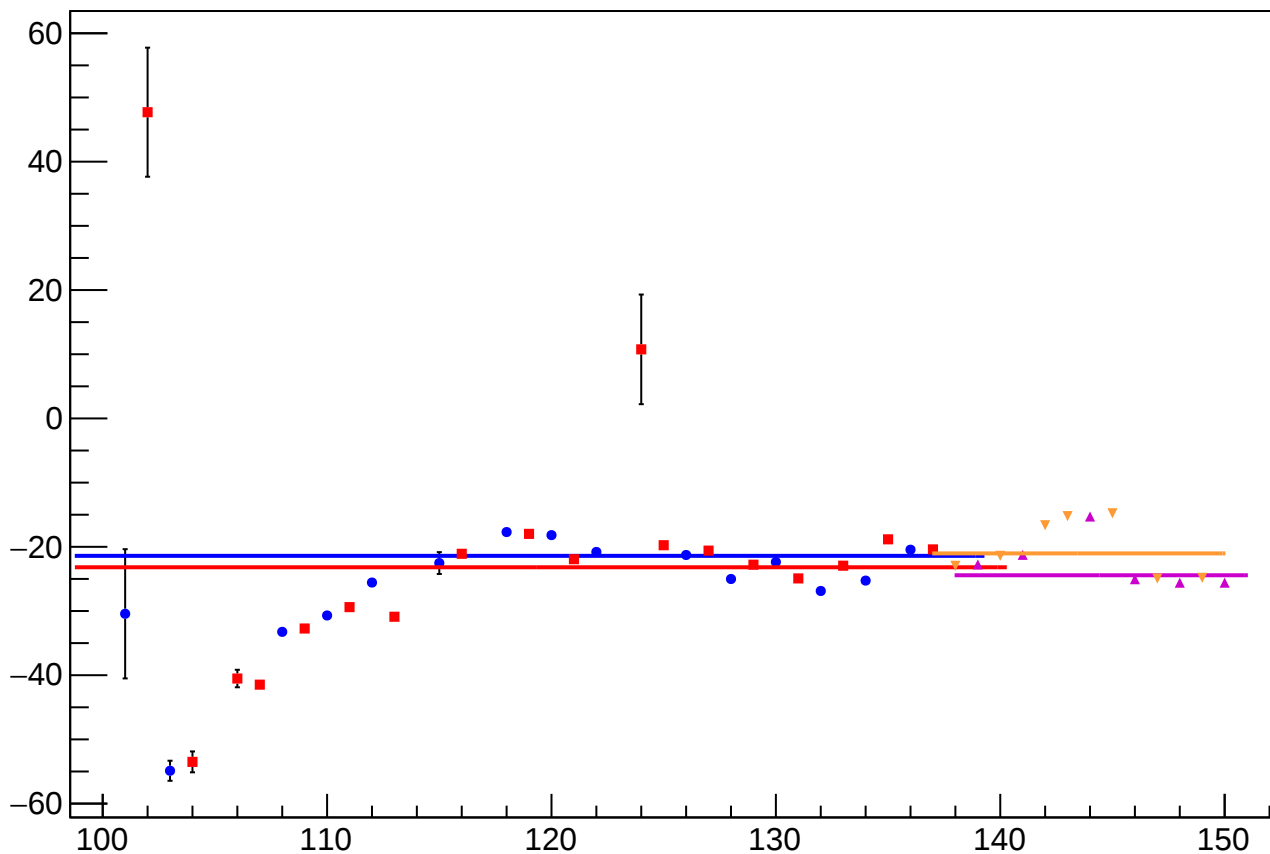
Right: 14.589+/-0.025  $\chi^2/\text{NDF}$ : 13713.5/32

In: 15.225+/-0.020  $\chi^2/\text{NDF}$ : 14768.9/20

Out: 14.819+/-0.025  $\chi^2/\text{NDF}$ : 4074.4/24

All: 15.068+/-0.015  $\chi^2/\text{NDF}$ : 19010.3/45

# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In: -21.406±/0.036  $\chi^2/\text{NDF}$ : 9686.6/14

Left Out: -21.026±/0.030  $\chi^2/\text{NDF}$ : 20160.9/6

Right Out: -23.186±/0.051  $\chi^2/\text{NDF}$ : 9126.8/17

Left In: -24.431±/0.030  $\chi^2/\text{NDF}$ : 7244.3/5

Left: -22.742±/0.021  $\chi^2/\text{NDF}$ : 33819.2/12

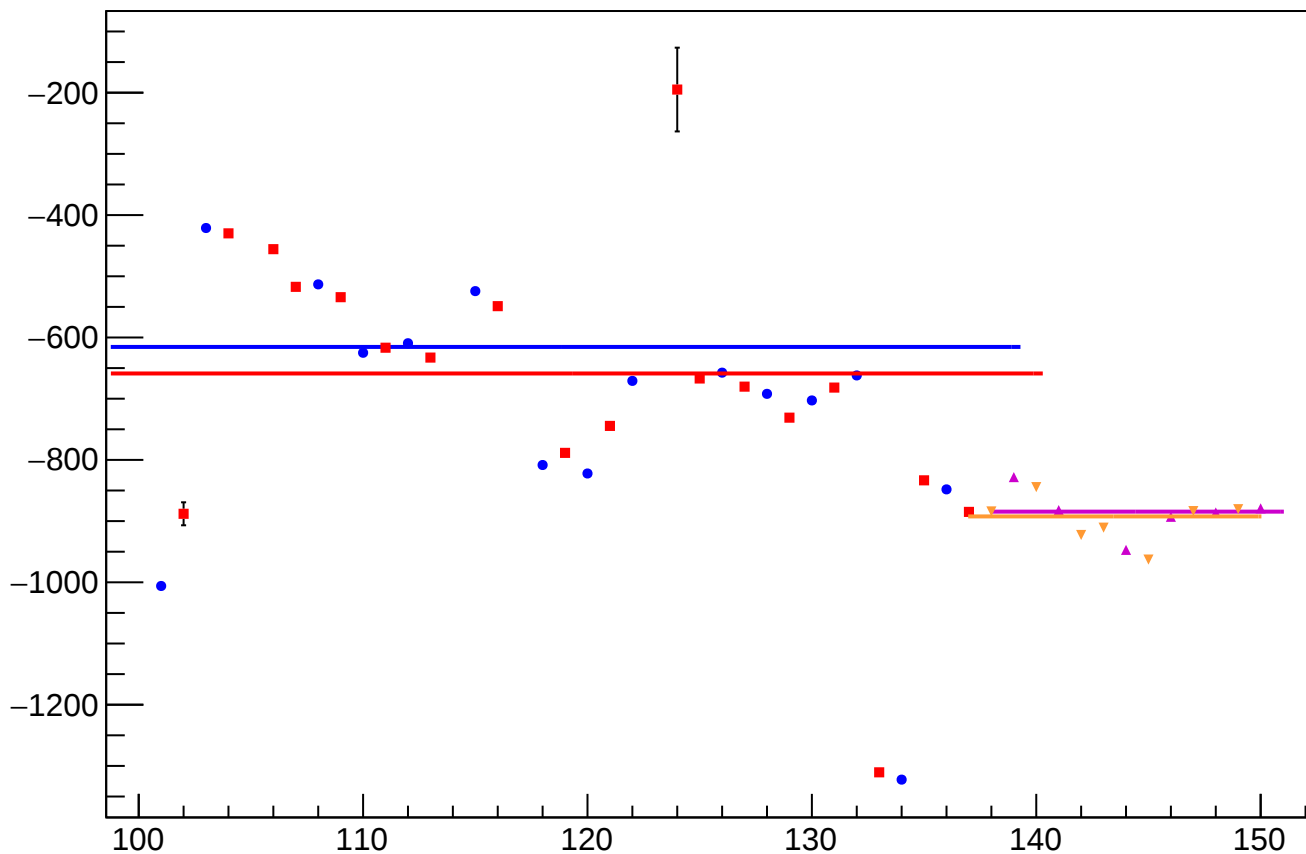
Right: -21.987±/0.029  $\chi^2/\text{NDF}$ : 19630.5/32

In: -23.177±/0.023  $\chi^2/\text{NDF}$ : 21162.8/20

Out: -21.584±/0.026  $\chi^2/\text{NDF}$ : 30612.5/24

All: -22.481±/0.017  $\chi^2/\text{NDF}$ : 53887.3/45

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In: -615.419+/-0.238  $\chi^2$ /NDF: 382819.1/14

Left Out: -892.358+/-0.295  $\chi^2$ /NDF:8889.8/6

Right Out: -658.787+/-0.256  $\chi^2$ /NDF: 385262.6/17

Left In: -884.542+/-0.223  $\chi^2$ /NDF:8260.8/5

Left: -887.381+/-0.178  $\chi^2$ /NDF: 17597.8/12

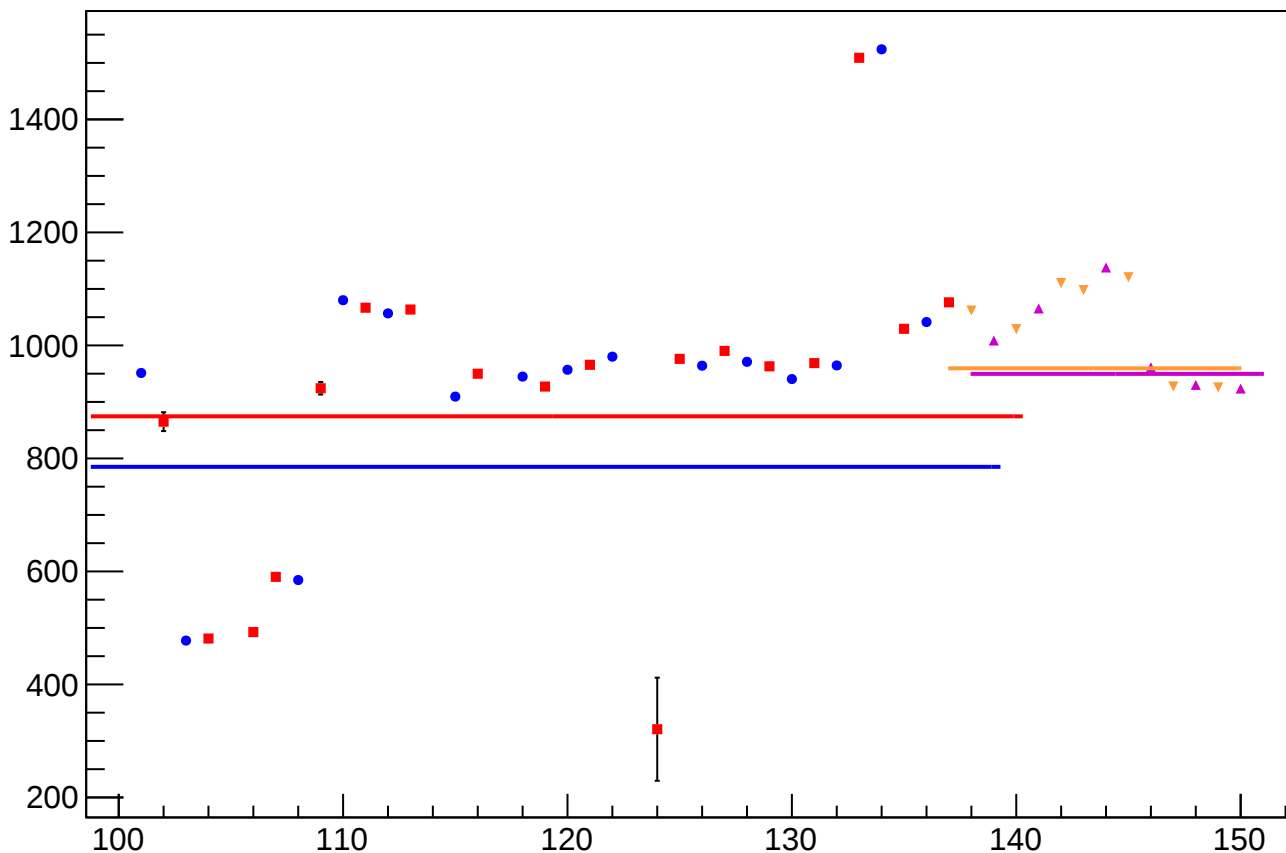
Right: -635.464+/-0.174  $\chi^2$ /NDF: 783480.4/32

In: -758.658+/-0.163  $\chi^2$ /NDF:1073909.4/20

Out: -759.300+/-0.193  $\chi^2$ /NDF:751551.3/24

All: -758.924+/-0.124  $\chi^2$ /NDF: 1825467.1/45

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 785.095+/-0.228  $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 959.494+/-0.269  $\chi^2/\text{NDF}$ : 60095.7/6

Right Out: 874.516+/-0.261  $\chi^2/\text{NDF}$ : 842565.5/17

Left In: 949.637+/-0.199  $\chi^2/\text{NDF}$ : 71181.1/5

Left: 953.121+/-0.160  $\chi^2/\text{NDF}$ : 132147.7/12

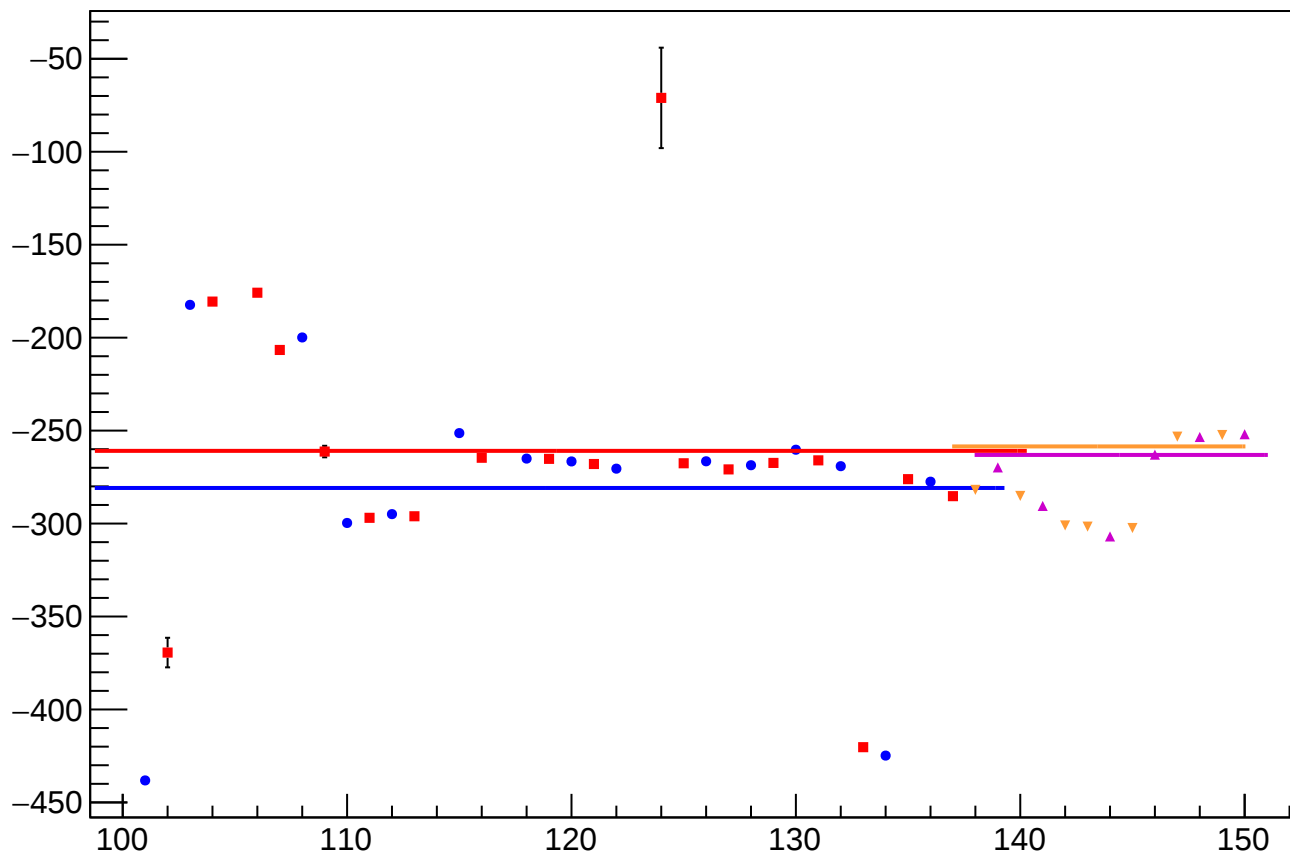
Right: 823.762+/-0.172  $\chi^2/\text{NDF}$ : 1795202.4/32

In: 878.668+/-0.150  $\chi^2/\text{NDF}$ : 1253408.6/20

Out: 915.832+/-0.187  $\chi^2/\text{NDF}$ : 954098.4/24

All: 893.164+/-0.117  $\chi^2/\text{NDF}$ : 2231526.7/45

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-258.509 \pm 0.040$   $\chi^2/\text{NDF}: 145640.2/6$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

Left In:  $-263.090 \pm 0.039$   $\chi^2/\text{NDF}: 157436.1/5$

Left:  $-260.836 \pm 0.028$   $\chi^2/\text{NDF}: 309744.9/12$

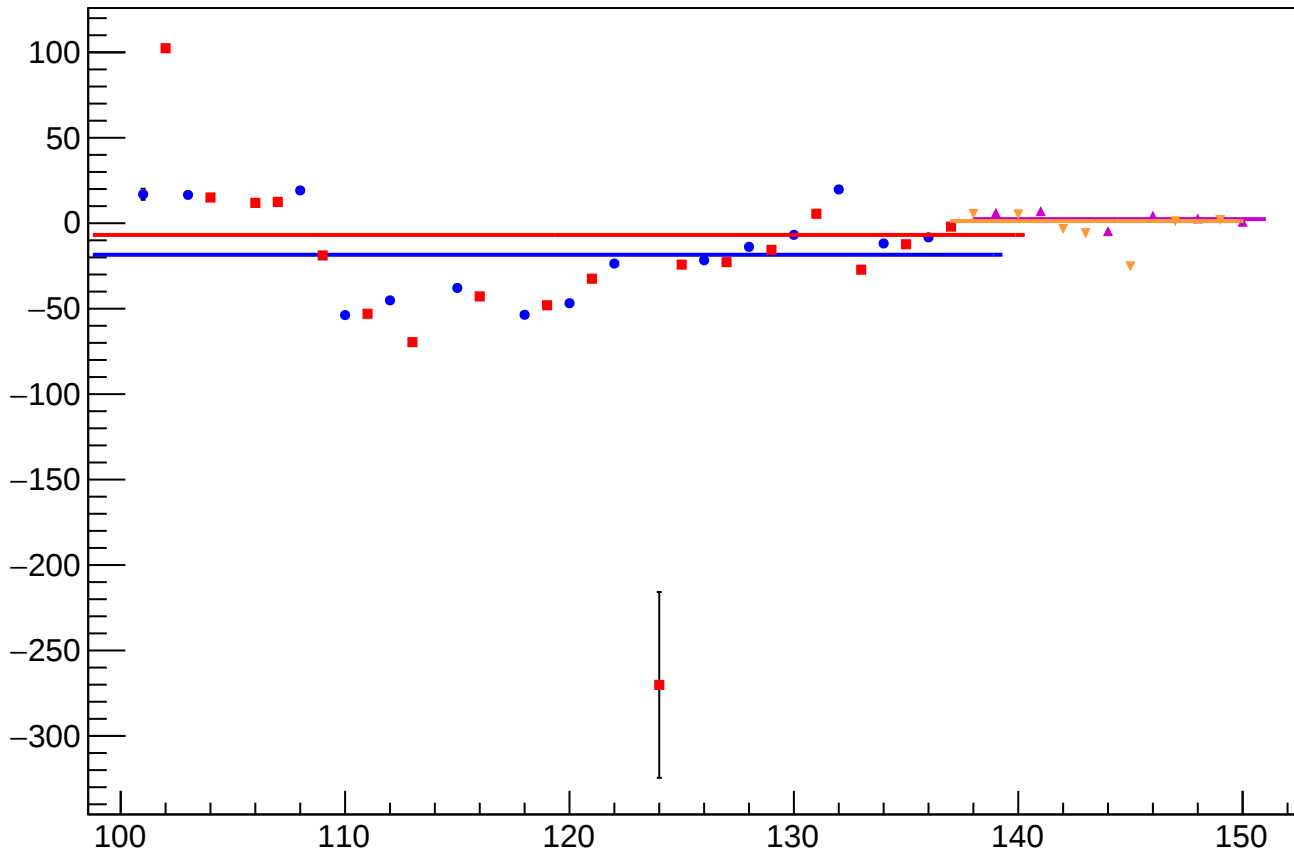
Right:  $-272.298 \pm 0.044$   $\chi^2/\text{NDF}: 1271185.3/32$

In:  $-268.621 \pm 0.033$   $\chi^2/\text{NDF}: 1094490.3/20$

Out:  $-259.128 \pm 0.034$   $\chi^2/\text{NDF}: 494282.9/24$

All:  $-264.122 \pm 0.024$   $\chi^2/\text{NDF}: 1628816.6/45$

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}: 46574.6/14$

Left Out:  $1.286 \pm 0.056$   $\chi^2/\text{NDF}: 5459.2/6$

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}: 50023.0/17$

Left In:  $2.418 \pm 0.042$   $\chi^2/\text{NDF}: 4067.1/5$

Left:  $2.013 \pm 0.033$   $\chi^2/\text{NDF}: 9791.5/12$

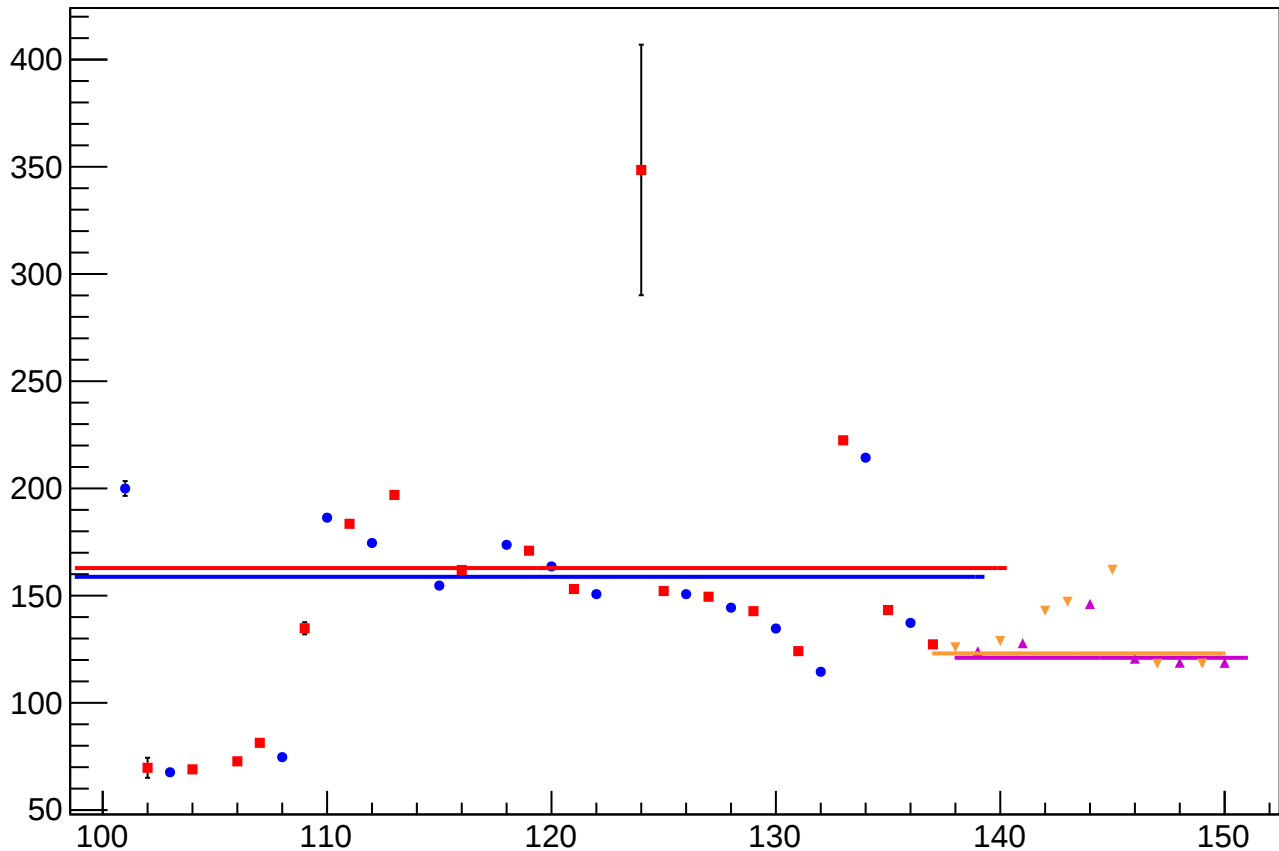
Right:  $-10.715 \pm 0.053$   $\chi^2/\text{NDF}: 107378.5/32$

In:  $-1.166 \pm 0.038$   $\chi^2/\text{NDF}: 93948.1/20$

Out:  $-2.186 \pm 0.042$   $\chi^2/\text{NDF}: 64561.4/24$

All:  $-1.620 \pm 0.028$   $\chi^2/\text{NDF}: 158833.6/45$

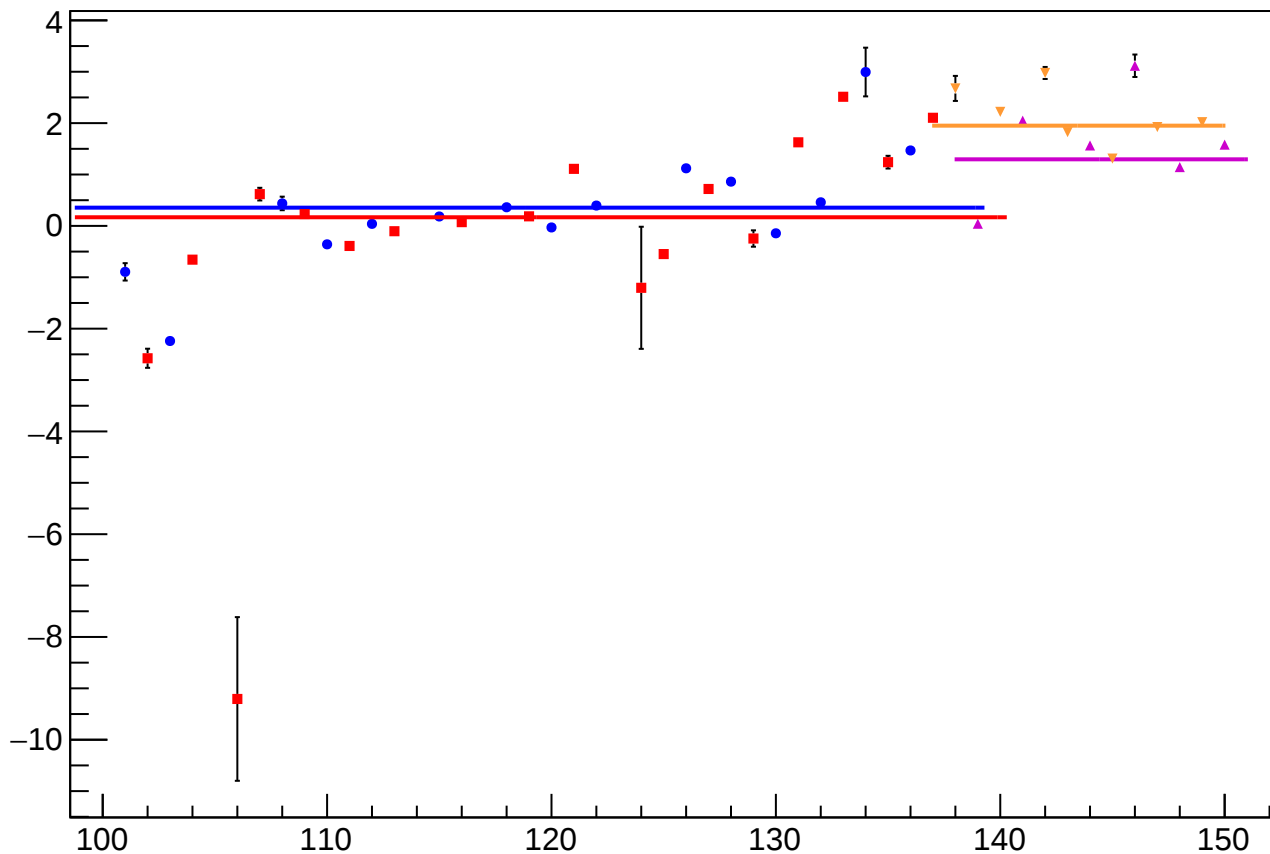
# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



Right In: 158.772 $\pm$ 0.088     $\chi^2$ /NDF: 159016.5/14  
 Left Out: 123.065 $\pm$ 0.057     $\chi^2$ /NDF: 30797.7/6  
 Right Out: 162.856 $\pm$ 0.093     $\chi^2$ /NDF: 156176.8/17  
 Left In: 121.007 $\pm$ 0.045     $\chi^2$ /NDF: 12946.4/5

Left: 121.791 $\pm$ 0.035     $\chi^2$ /NDF: 44552.5/12  
 Right: 160.702 $\pm$ 0.064     $\chi^2$ /NDF: 316204.3/32  
 In: 128.704 $\pm$ 0.040     $\chi^2$ /NDF: 317571.0/20  
 Out: 133.867 $\pm$ 0.049     $\chi^2$ /NDF: 319579.8/24  
 All: 130.781 $\pm$ 0.031     $\chi^2$ /NDF: 643899.2/45

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



Right In: 0.355 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 4011.3/14

Left Out: 1.951 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 247.3/6

Right Out: 0.168 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 4588.1/17

Left In: 1.296 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 2526.1/5

Left: 1.486 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 3499.8/12

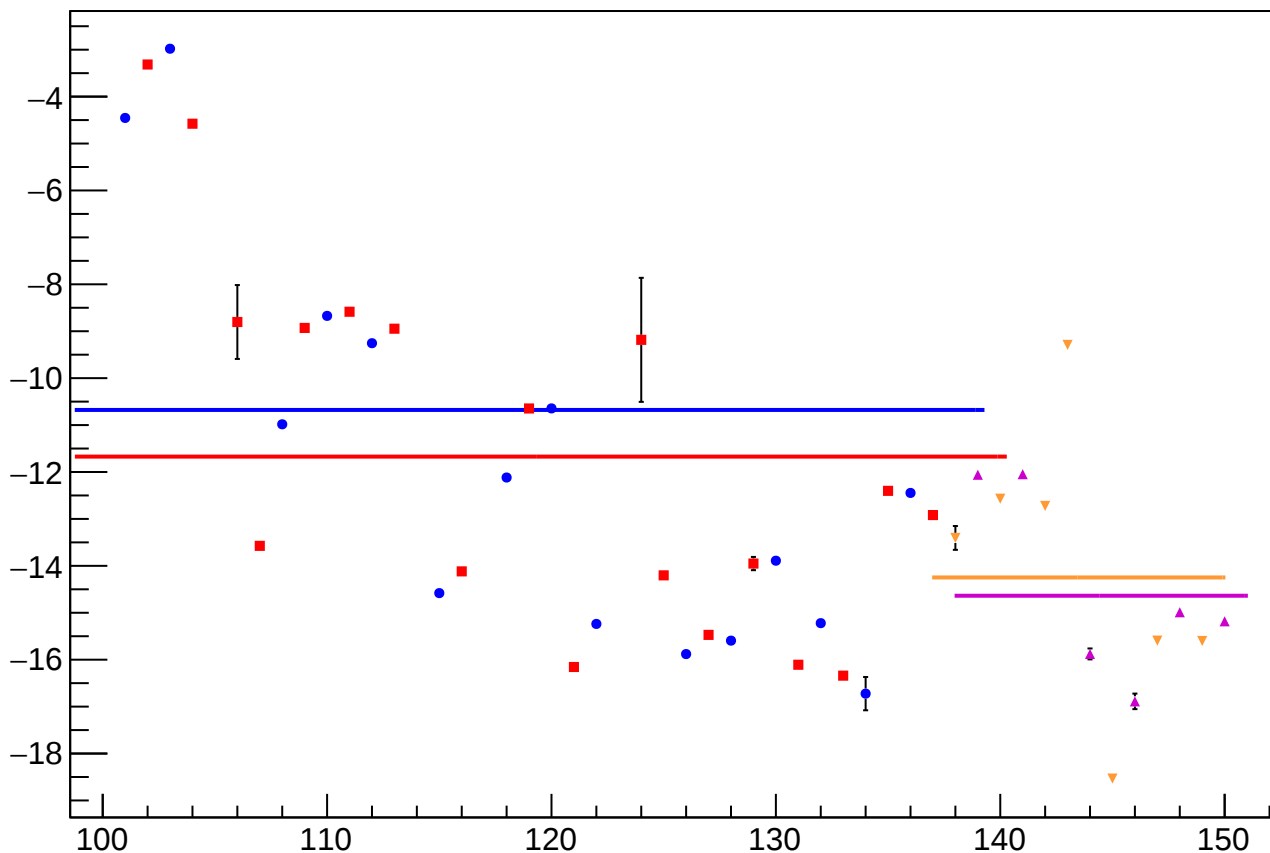
Right: 0.223 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 8777.2/32

In: 0.775 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 9393.2/20

Out: 0.386 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 11485.7/24

All: 0.542 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 22063.3/45

# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.248 \pm 0.017$   $\chi^2/\text{NDF}: 27279.8/6$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

Left In:  $-14.637 \pm 0.013$   $\chi^2/\text{NDF}: 8931.3/5$

Left:  $-14.496 \pm 0.010$   $\chi^2/\text{NDF}: 36554.8/12$

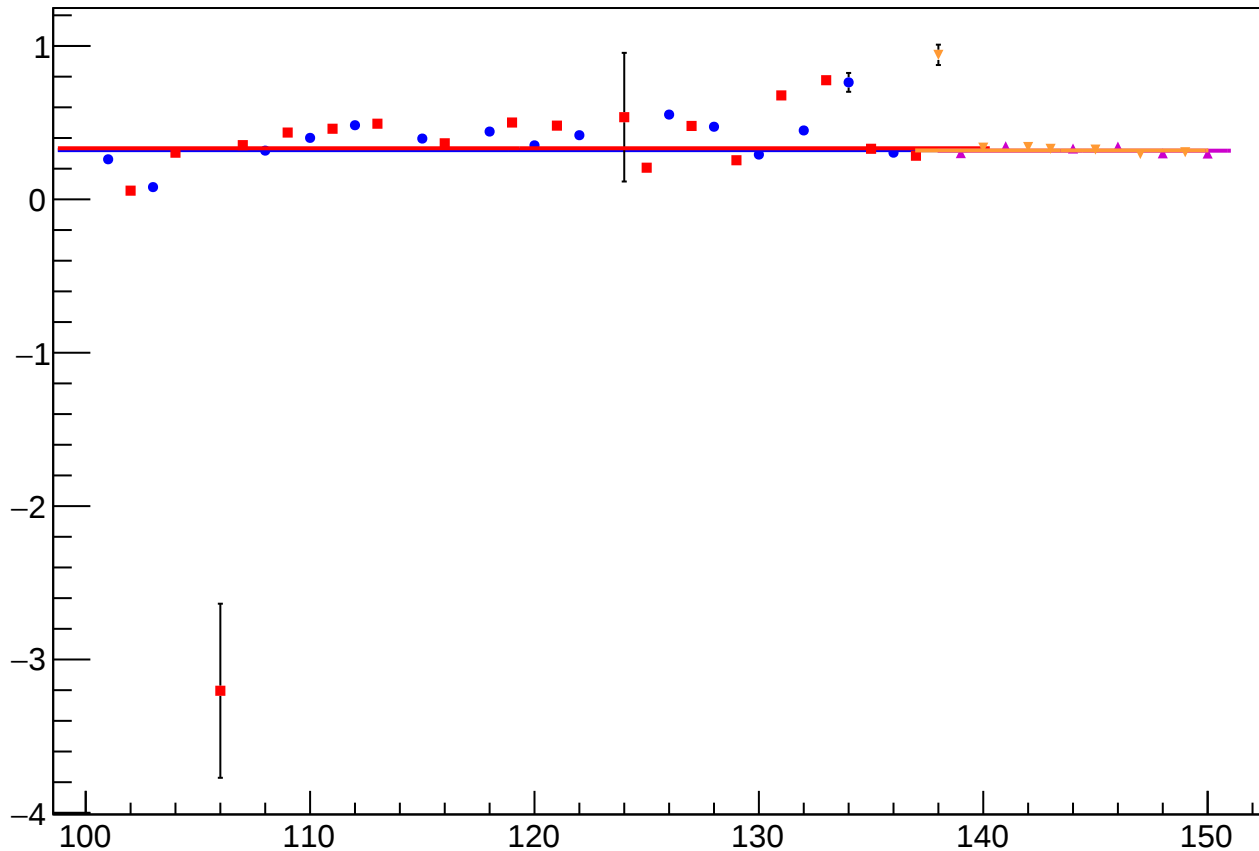
Right:  $-11.113 \pm 0.008$   $\chi^2/\text{NDF}: 338735.1/32$

In:  $-12.253 \pm 0.008$   $\chi^2/\text{NDF}: 294756.2/20$

Out:  $-12.509 \pm 0.010$   $\chi^2/\text{NDF}: 151035.3/24$

All:  $-12.358 \pm 0.006$   $\chi^2/\text{NDF}: 446214.8/45$

# dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.321 \pm 0.001$   $\chi^2/\text{NDF}$ : 4017.7/14

Left Out:  $0.319 \pm 0.000$   $\chi^2/\text{NDF}$ : 1398.8/6

Right Out:  $0.333 \pm 0.001$   $\chi^2/\text{NDF}$ : 4170.0/17

Left In:  $0.317 \pm 0.001$   $\chi^2/\text{NDF}$ : 1236.8/5

Left:  $0.318 \pm 0.000$   $\chi^2/\text{NDF}$ : 2640.7/12

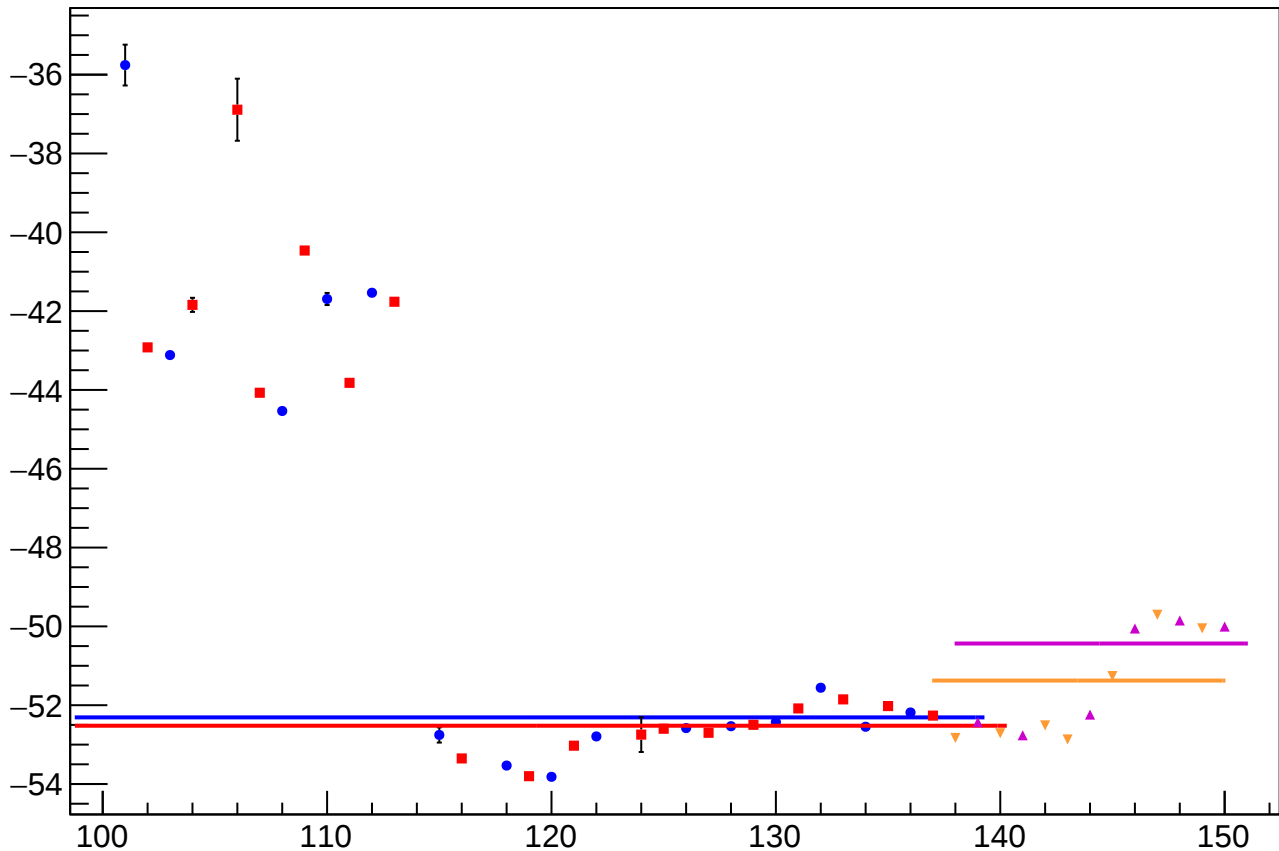
Right:  $0.325 \pm 0.001$   $\chi^2/\text{NDF}$ : 8247.8/32

In:  $0.318 \pm 0.000$   $\chi^2/\text{NDF}$ : 5265.8/20

Out:  $0.321 \pm 0.000$   $\chi^2/\text{NDF}$ : 5679.6/24

All:  $0.320 \pm 0.000$   $\chi^2/\text{NDF}$ : 10960.8/45

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In: -52.309+/-0.004  $\chi^2/\text{NDF}$ : 53459.2/14

Left Out: -51.375+/-0.004  $\chi^2/\text{NDF}$ : 129801.1/6

Right Out: -52.521+/-0.005  $\chi^2/\text{NDF}$ : 76616.3/17

Left In: -50.435+/-0.003  $\chi^2/\text{NDF}$ : 138062.8/5

Left: -50.724+/-0.002  $\chi^2/\text{NDF}$ : 307661.9/12

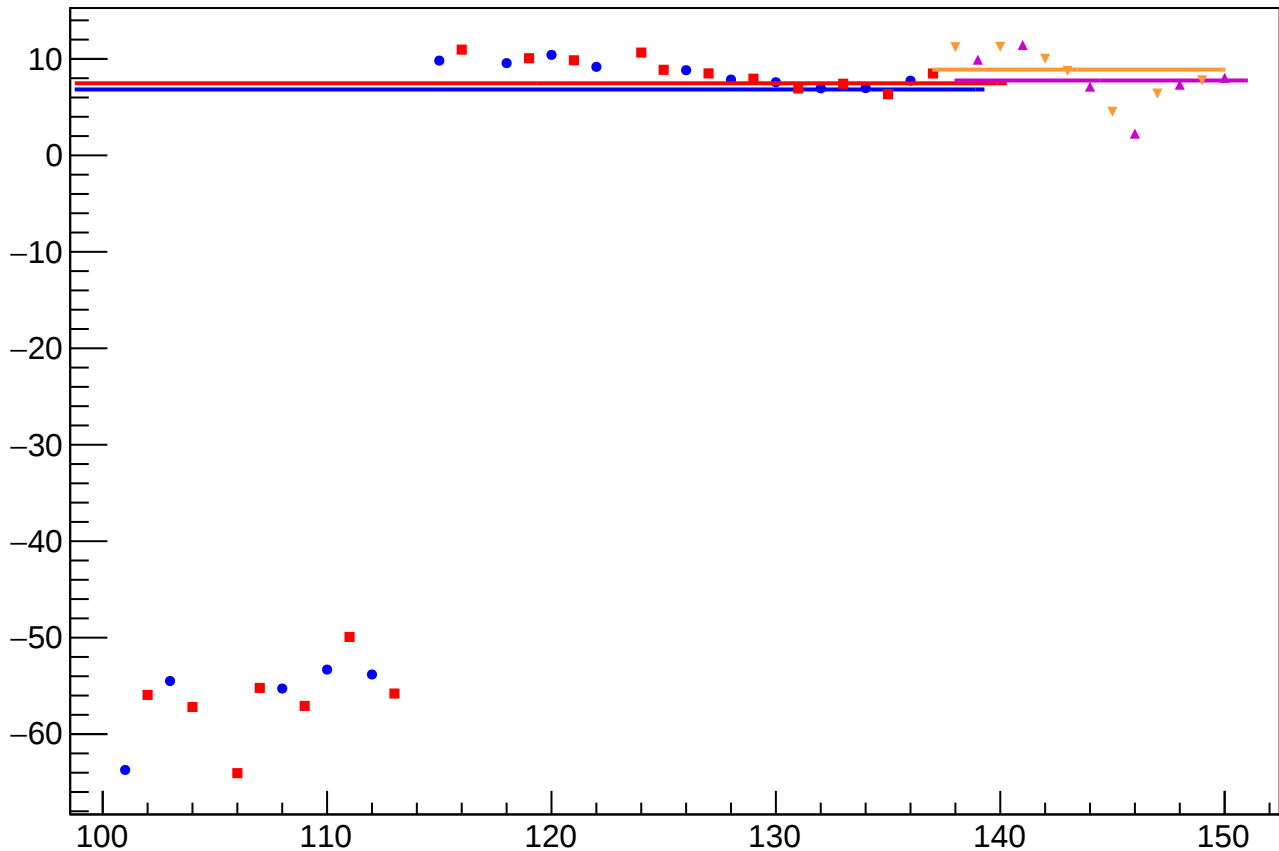
Right: -52.410+/-0.003  $\chi^2/\text{NDF}$ : 131177.9/32

In: -50.921+/-0.002  $\chi^2/\text{NDF}$ : 325045.1/20

Out: -51.856+/-0.003  $\chi^2/\text{NDF}$ : 242319.1/24

All: -51.260+/-0.002  $\chi^2/\text{NDF}$ : 629979.2/45

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In: 6.834+/-0.005  $\chi^2/\text{NDF}$ : 990576.4/14

Left Out: 8.889+/-0.010  $\chi^2/\text{NDF}$ : 38010.0/6

Right Out: 7.474+/-0.009  $\chi^2/\text{NDF}$ : 1195498.7/17

Left In: 7.763+/-0.008  $\chi^2/\text{NDF}$ : 74482.3/5

Left: 8.204+/-0.006  $\chi^2/\text{NDF}$ : 120184.1/12

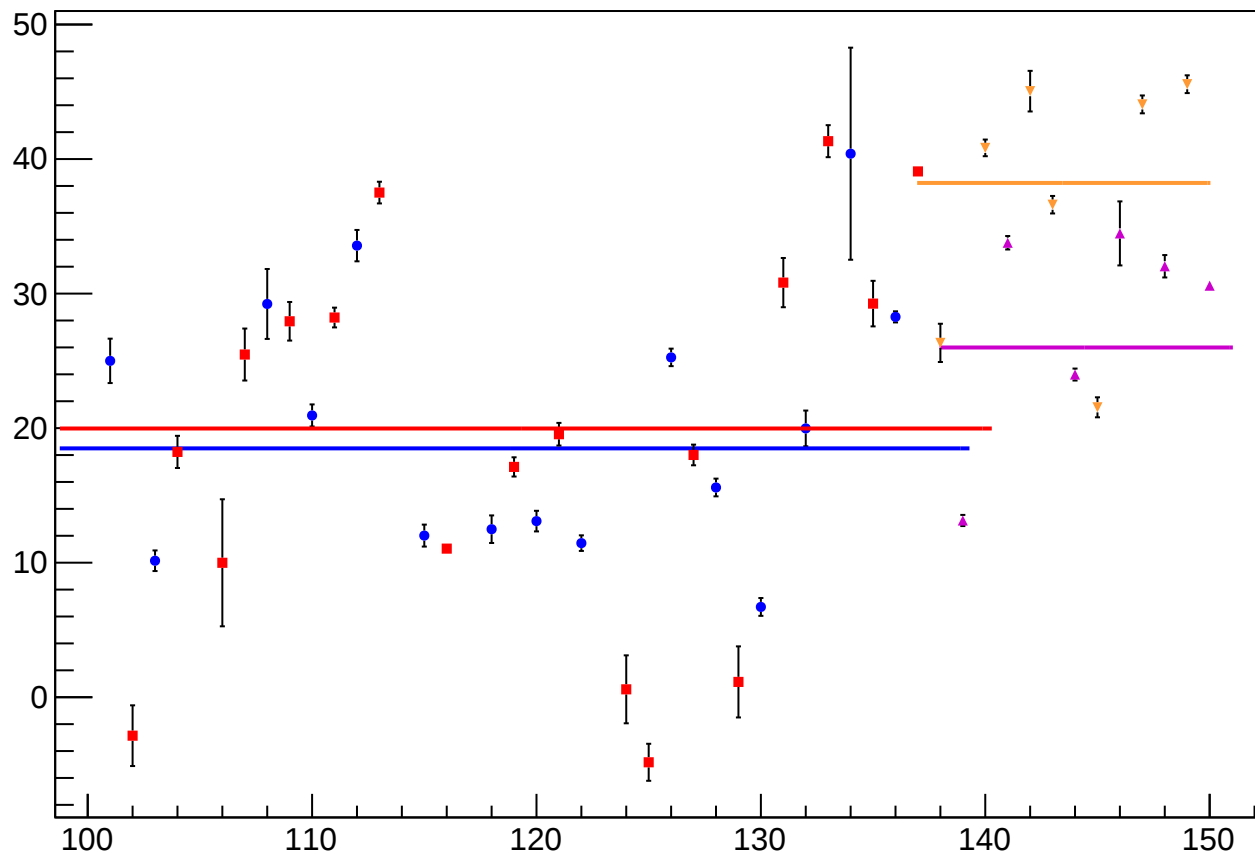
Right: 6.980+/-0.004  $\chi^2/\text{NDF}$ : 2189734.1/32

In: 7.098+/-0.004  $\chi^2/\text{NDF}$ : 1074645.4/20

Out: 8.129+/-0.007  $\chi^2/\text{NDF}$ : 1244239.4/24

All: 7.390+/-0.004  $\chi^2/\text{NDF}$ : 2335291.2/45

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $18.496 \pm 0.200$   $\chi^2/\text{NDF}$ : 1636.7/14

Left Out:  $38.225 \pm 0.285$   $\chi^2/\text{NDF}$ : 817.4/6

Right Out:  $19.974 \pm 0.130$   $\chi^2/\text{NDF}$ : 9201.3/17

Left In:  $25.994 \pm 0.196$   $\chi^2/\text{NDF}$ : 1492.1/5

Left:  $29.911 \pm 0.162$   $\chi^2/\text{NDF}$ : 3557.1/12

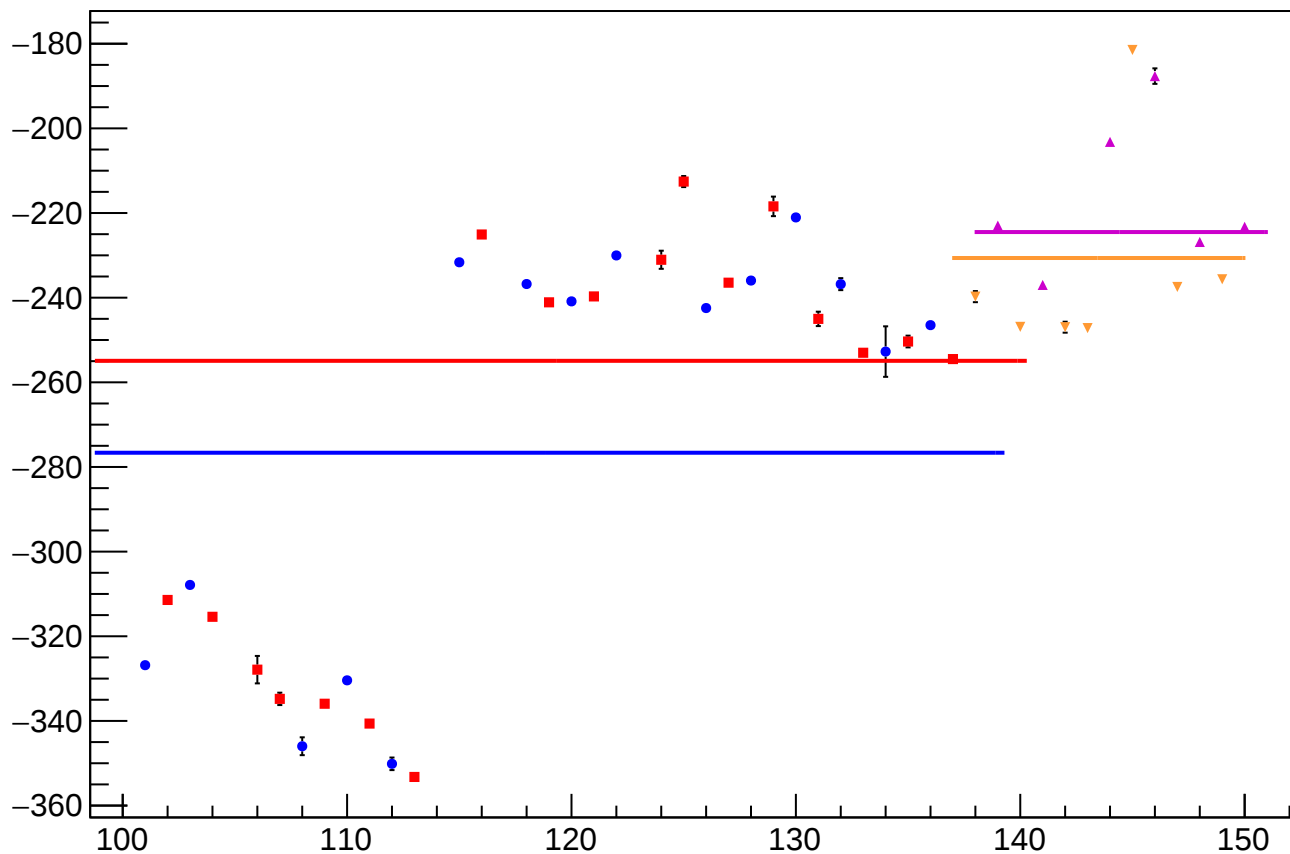
Right:  $19.534 \pm 0.109$   $\chi^2/\text{NDF}$ : 10876.3/32

In:  $22.323 \pm 0.140$   $\chi^2/\text{NDF}$ : 3845.8/20

Out:  $23.115 \pm 0.118$   $\chi^2/\text{NDF}$ : 13402.1/24

All:  $22.785 \pm 0.090$   $\chi^2/\text{NDF}$ : 17266.6/45

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In: -276.636+/-0.148  $\chi^2/\text{NDF}$ : 77119.6/14

Left Out: -230.629+/-0.231  $\chi^2/\text{NDF}$ : 10615.2/6

Right Out: -254.921+/-0.071  $\chi^2/\text{NDF}$ : 71945.8/17

Left In: -224.496+/-0.170  $\chi^2/\text{NDF}$ : 2167.8/5

Left: -226.654+/-0.137  $\chi^2/\text{NDF}$ : 13239.0/12

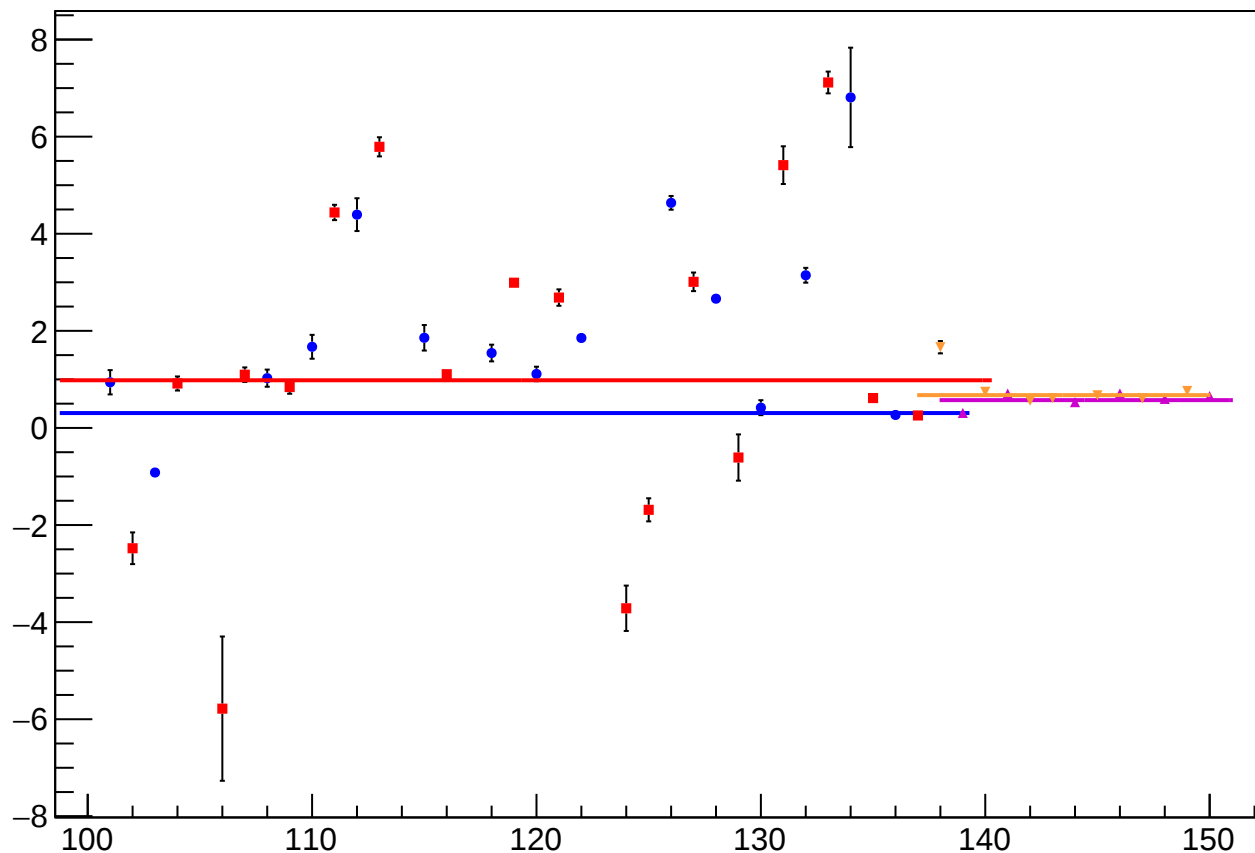
Right: -259.025+/-0.064  $\chi^2/\text{NDF}$ : 166632.3/32

In: -254.291+/-0.112  $\chi^2/\text{NDF}$ : 132806.5/20

Out: -252.815+/-0.068  $\chi^2/\text{NDF}$ : 92644.5/24

All: -253.216+/-0.058  $\chi^2/\text{NDF}$ : 225578.6/45

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}: 2787.0/14$

Left Out:  $0.676 \pm 0.004$   $\chi^2/\text{NDF}: 449.4/6$

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}: 3374.7/17$

Left In:  $0.573 \pm 0.004$   $\chi^2/\text{NDF}: 1781.3/5$

Left:  $0.622 \pm 0.003$   $\chi^2/\text{NDF}: 2632.6/12$

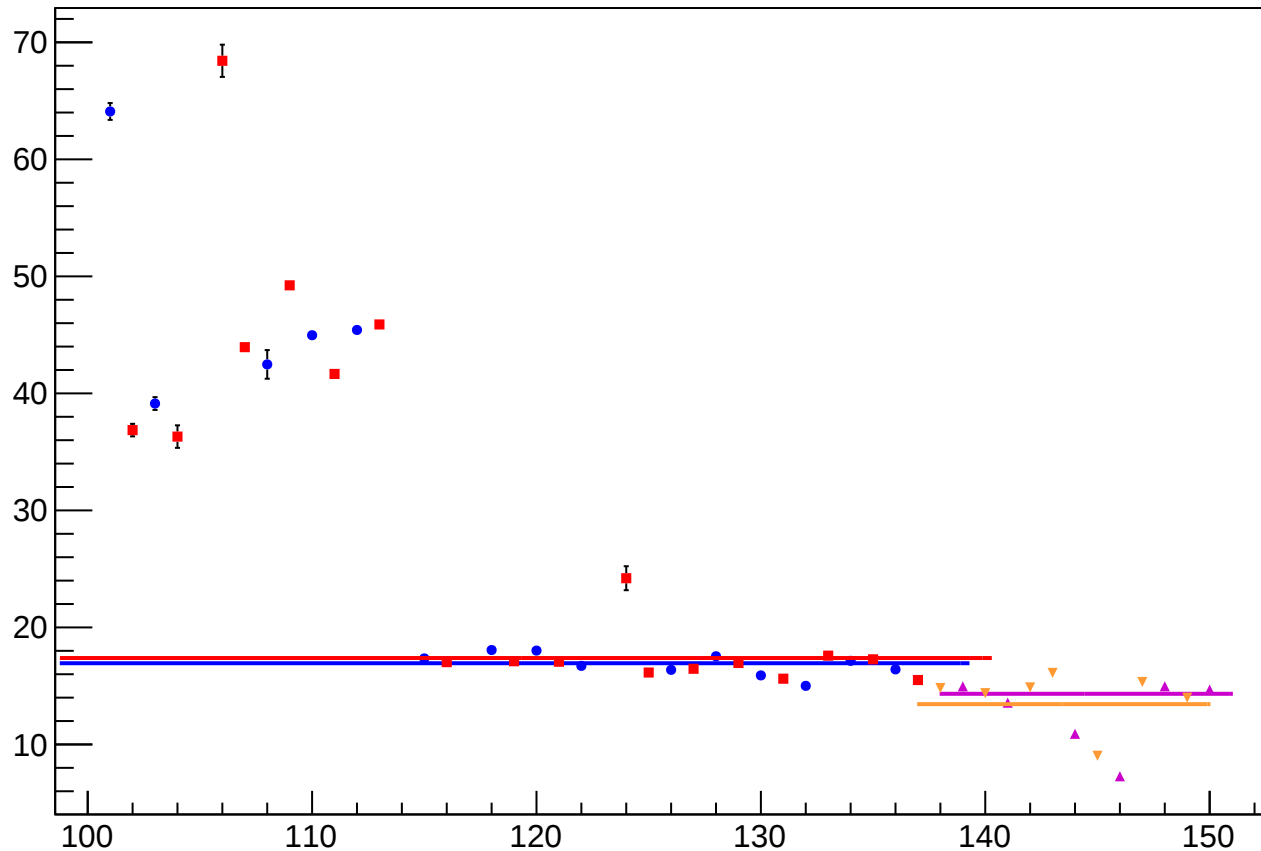
Right:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}: 7919.2/32$

In:  $0.514 \pm 0.003$   $\chi^2/\text{NDF}: 5819.1/20$

Out:  $0.695 \pm 0.004$   $\chi^2/\text{NDF}: 4231.9/24$

All:  $0.591 \pm 0.002$   $\chi^2/\text{NDF}: 11480.3/45$

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}: 29019.8/14$

Left Out:  $13.442 \pm 0.014$   $\chi^2/\text{NDF}: 41446.8/6$

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}: 61131.5/17$

Left In:  $14.328 \pm 0.018$   $\chi^2/\text{NDF}: 5160.4/5$

Left:  $13.755 \pm 0.011$   $\chi^2/\text{NDF}: 48104.9/12$

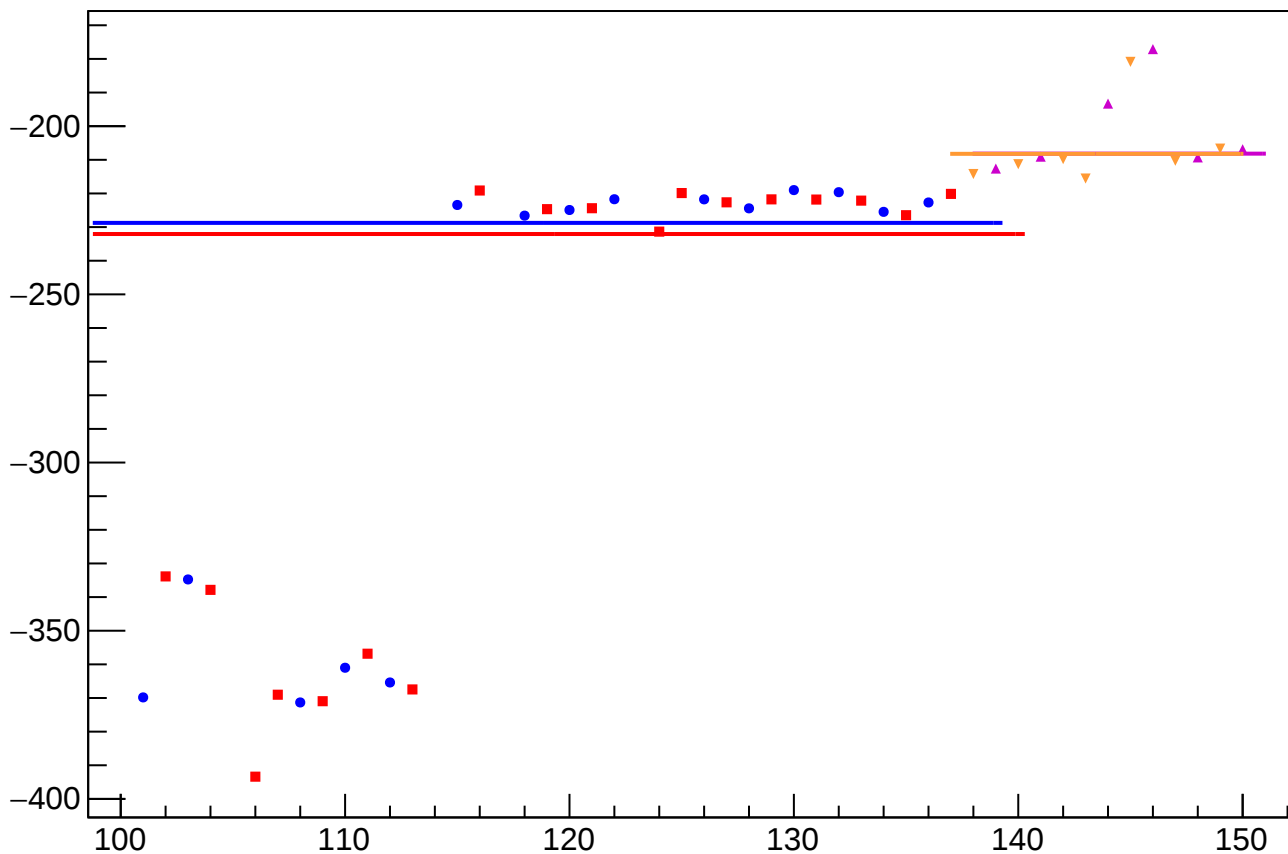
Right:  $17.096 \pm 0.010$   $\chi^2/\text{NDF}: 90566.4/32$

In:  $16.084 \pm 0.011$   $\chi^2/\text{NDF}: 47698.0/20$

Out:  $14.919 \pm 0.011$   $\chi^2/\text{NDF}: 134015.2/24$

All:  $15.513 \pm 0.008$   $\chi^2/\text{NDF}: 187694.0/45$

# dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}$ : 657578.5/14

Left Out:  $-208.219 \pm 0.027$   $\chi^2/\text{NDF}$ : 67577.0/6

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}$ : 791526.5/17

Left In:  $-208.166 \pm 0.028$   $\chi^2/\text{NDF}$ : 10778.7/5

Left:  $-208.194 \pm 0.019$   $\chi^2/\text{NDF}$ : 78357.6/12

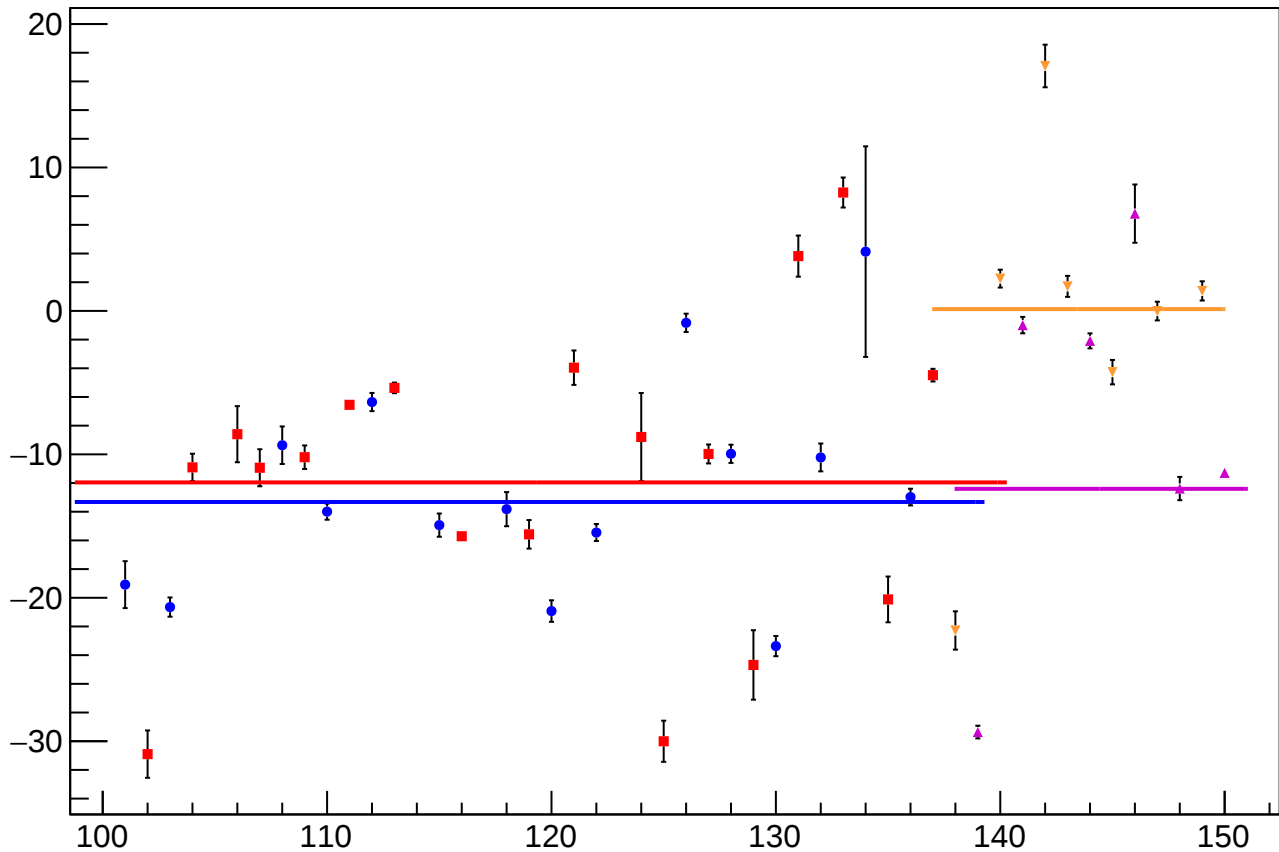
Right:  $-230.117 \pm 0.027$   $\chi^2/\text{NDF}$ : 1452870.5/32

In:  $-216.357 \pm 0.022$   $\chi^2/\text{NDF}$ : 880373.9/20

Out:  $-215.191 \pm 0.022$   $\chi^2/\text{NDF}$ : 1094826.7/24

All:  $-215.786 \pm 0.016$   $\chi^2/\text{NDF}$ : 1976591.6/45

# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $0.126 \pm 0.296$   $\chi^2/\text{NDF}: 458.6/6$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

Left In:  $-12.405 \pm 0.215$   $\chi^2/\text{NDF}: 2345.7/5$

Left:  $-8.084 \pm 0.174$   $\chi^2/\text{NDF}: 3980.0/12$

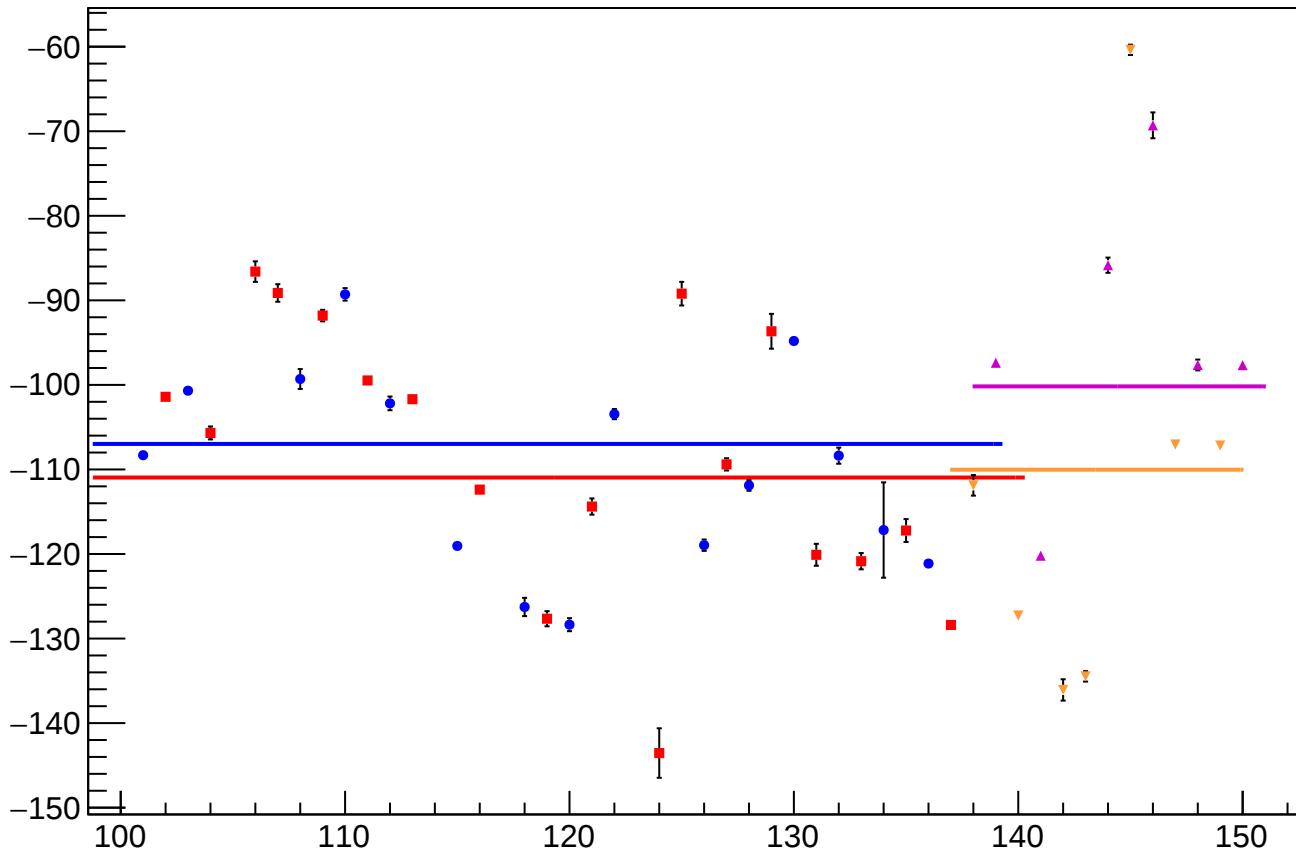
Right:  $-12.301 \pm 0.097$   $\chi^2/\text{NDF}: 3537.3/32$

In:  $-12.910 \pm 0.144$   $\chi^2/\text{NDF}: 3368.8/20$

Out:  $-10.427 \pm 0.105$   $\chi^2/\text{NDF}: 4403.0/24$

All:  $-11.293 \pm 0.085$   $\chi^2/\text{NDF}: 7965.9/45$

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}: 4658.3/14$

Left Out:  $-110.030 \pm 0.237$   $\chi^2/\text{NDF}: 9962.3/6$

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}: 10675.0/17$

Left In:  $-100.177 \pm 0.180$   $\chi^2/\text{NDF}: 2727.5/5$

Left:  $-103.770 \pm 0.143$   $\chi^2/\text{NDF}: 13785.8/12$

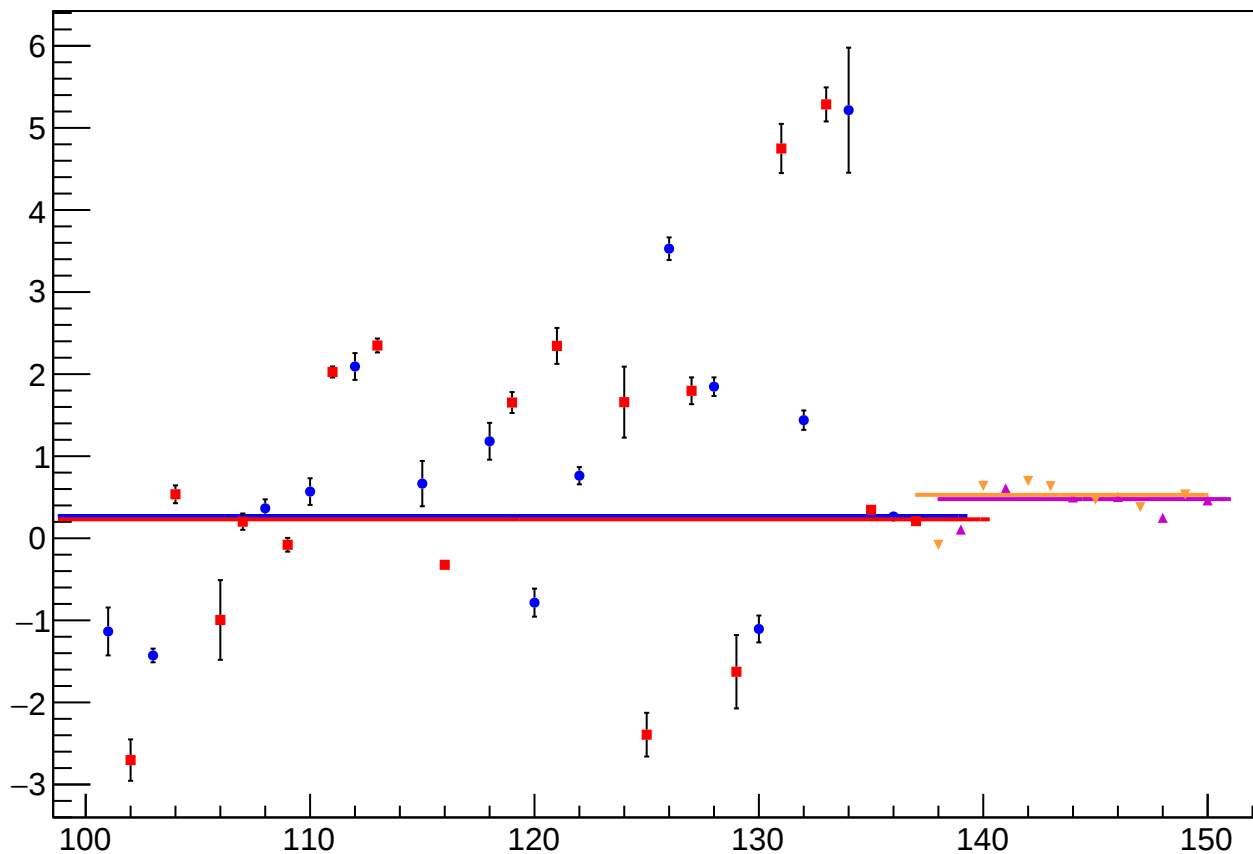
Right:  $-110.271 \pm 0.046$   $\chi^2/\text{NDF}: 16412.2/32$

In:  $-105.127 \pm 0.094$   $\chi^2/\text{NDF}: 8428.9/20$

Out:  $-110.915 \pm 0.049$   $\chi^2/\text{NDF}: 20651.8/24$

All:  $-109.671 \pm 0.044$   $\chi^2/\text{NDF}: 32067.7/45$

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.271+/-0.005  $\chi^2/\text{NDF}$ : 1612.2/14

Left Out: 0.529+/-0.004  $\chi^2/\text{NDF}$ :1297.7/6

Right Out: 0.231+/-0.004  $\chi^2/\text{NDF}$ : 2907.8/17

Left In: 0.477+/-0.003  $\chi^2/\text{NDF}$ :2566.0/5

Left: 0.497+/-0.003  $\chi^2/\text{NDF}$ : 3955.4/12

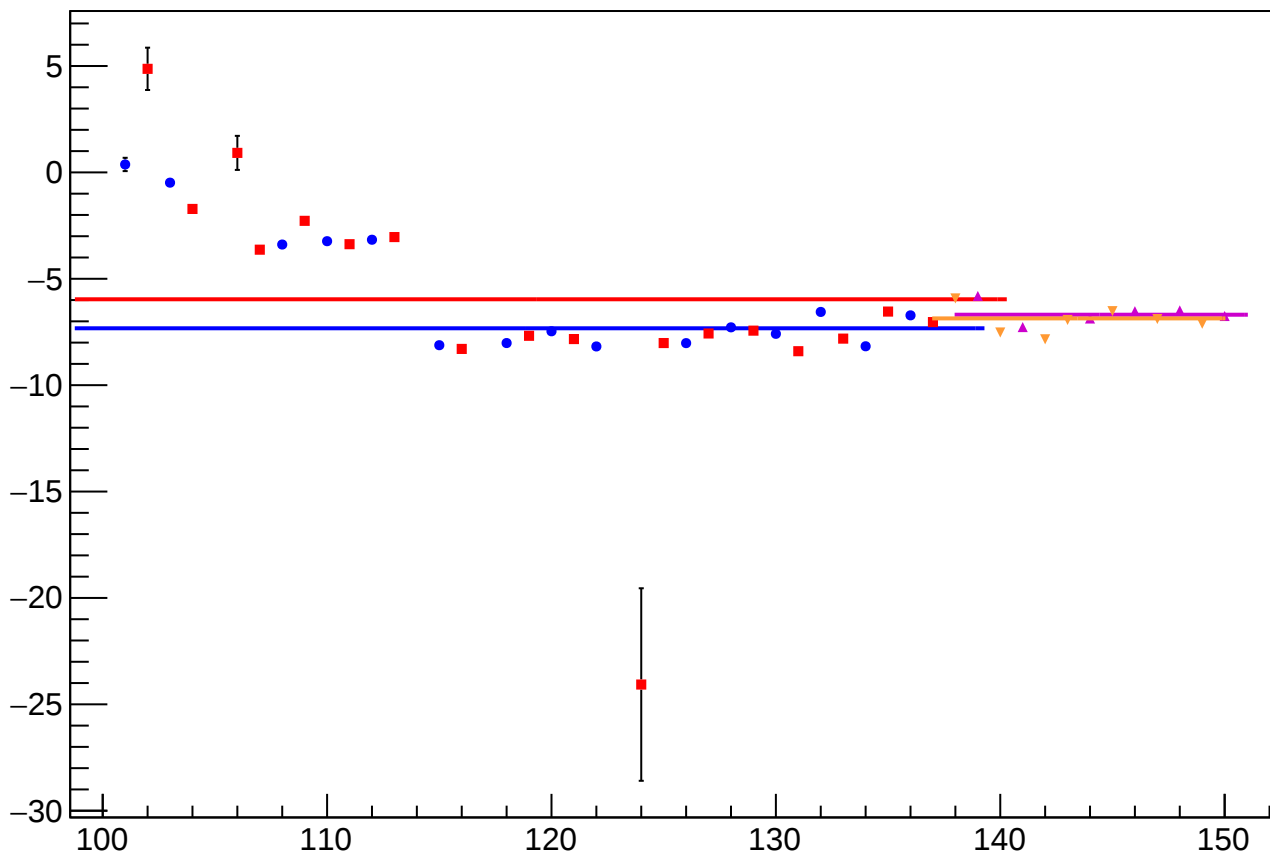
Right: 0.247+/-0.003  $\chi^2/\text{NDF}$ : 4554.2/32

In: 0.420+/-0.003  $\chi^2/\text{NDF}$ :5262.4/20

Out: 0.385+/-0.003  $\chi^2/\text{NDF}$ :6560.4/24

All: 0.404+/-0.002  $\chi^2/\text{NDF}$ : 11894.8/45

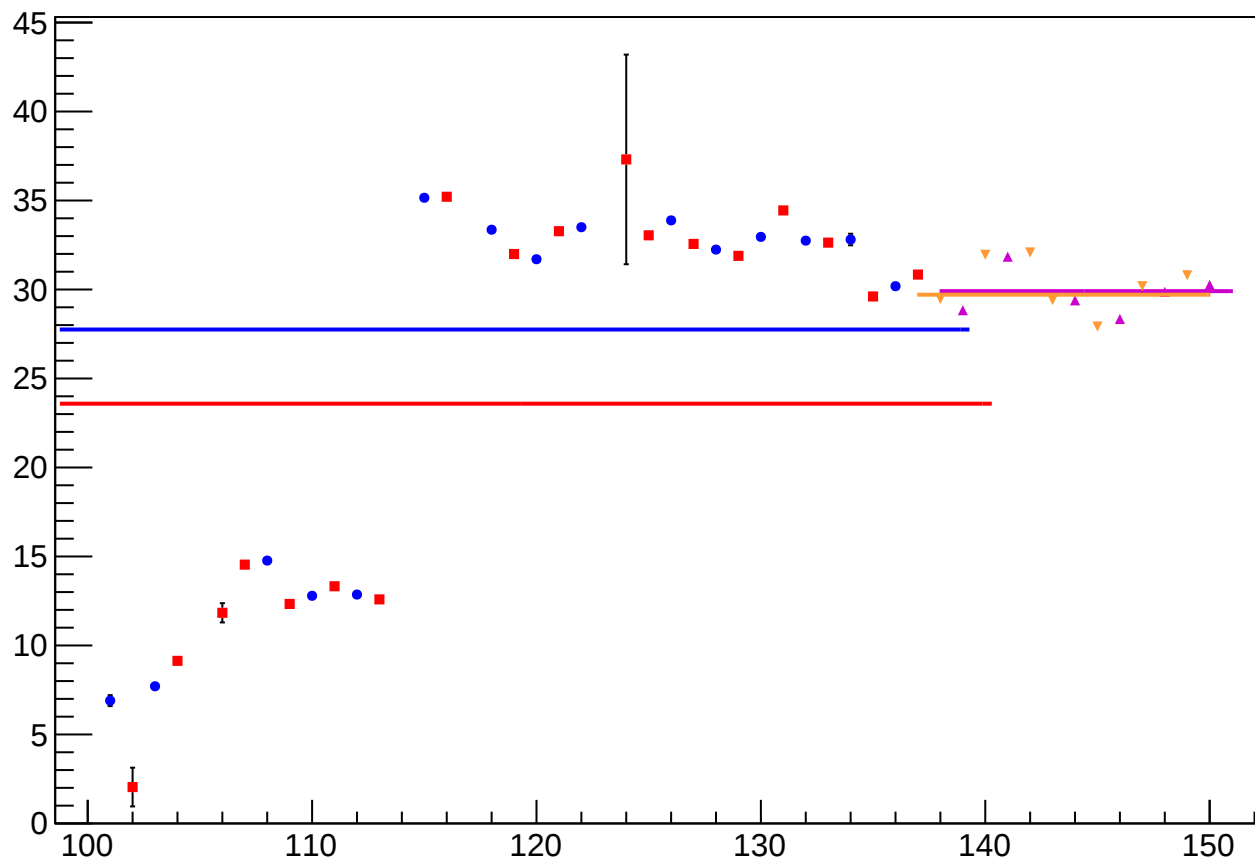
# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14  
 Left Out:  $-6.862 \pm 0.010$   $\chi^2/\text{NDF}$ : 1564.4/6  
 Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17  
 Left In:  $-6.689 \pm 0.008$   $\chi^2/\text{NDF}$ : 2754.9/5

Left:  $-6.757 \pm 0.006$   $\chi^2/\text{NDF}$ : 4501.9/12  
 Right:  $-6.677 \pm 0.006$   $\chi^2/\text{NDF}$ : 114918.0/32  
 In:  $-6.994 \pm 0.006$   $\chi^2/\text{NDF}$ : 36266.1/20  
 Out:  $-6.356 \pm 0.007$   $\chi^2/\text{NDF}$ : 77949.5/24  
 All:  $-6.716 \pm 0.004$   $\chi^2/\text{NDF}$ : 119505.0/45

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.708 $\pm$ 0.018  $\chi^2$ /NDF:6566.3/6

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

Left In: 29.908 $\pm$ 0.017  $\chi^2$ /NDF:1836.5/5

Left: 29.816 $\pm$ 0.012  $\chi^2$ /NDF: 8468.5/12

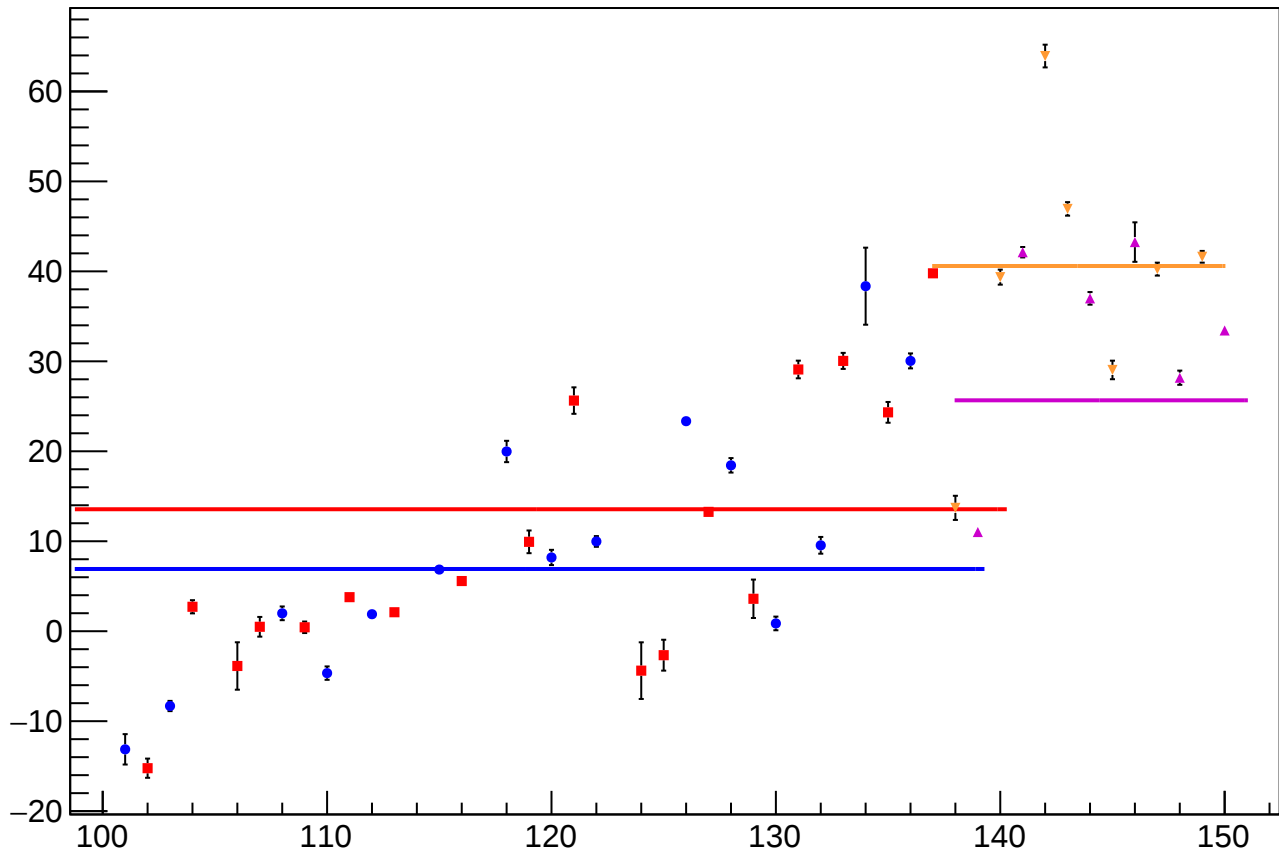
Right: 25.477 $\pm$ 0.010  $\chi^2$ /NDF: 914478.1/32

In: 28.717 $\pm$ 0.011  $\chi^2$ /NDF:343962.8/20

Out: 25.804 $\pm$ 0.011  $\chi^2$ /NDF:618460.4/24

All: 27.231 $\pm$ 0.008  $\chi^2$ /NDF: 997069.4/45

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $40.595 \pm 0.323$   $\chi^2/\text{NDF}: 943.9/6$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

Left In:  $25.665 \pm 0.203$   $\chi^2/\text{NDF}: 3682.6/5$

Left:  $29.885 \pm 0.172$   $\chi^2/\text{NDF}: 6160.0/12$

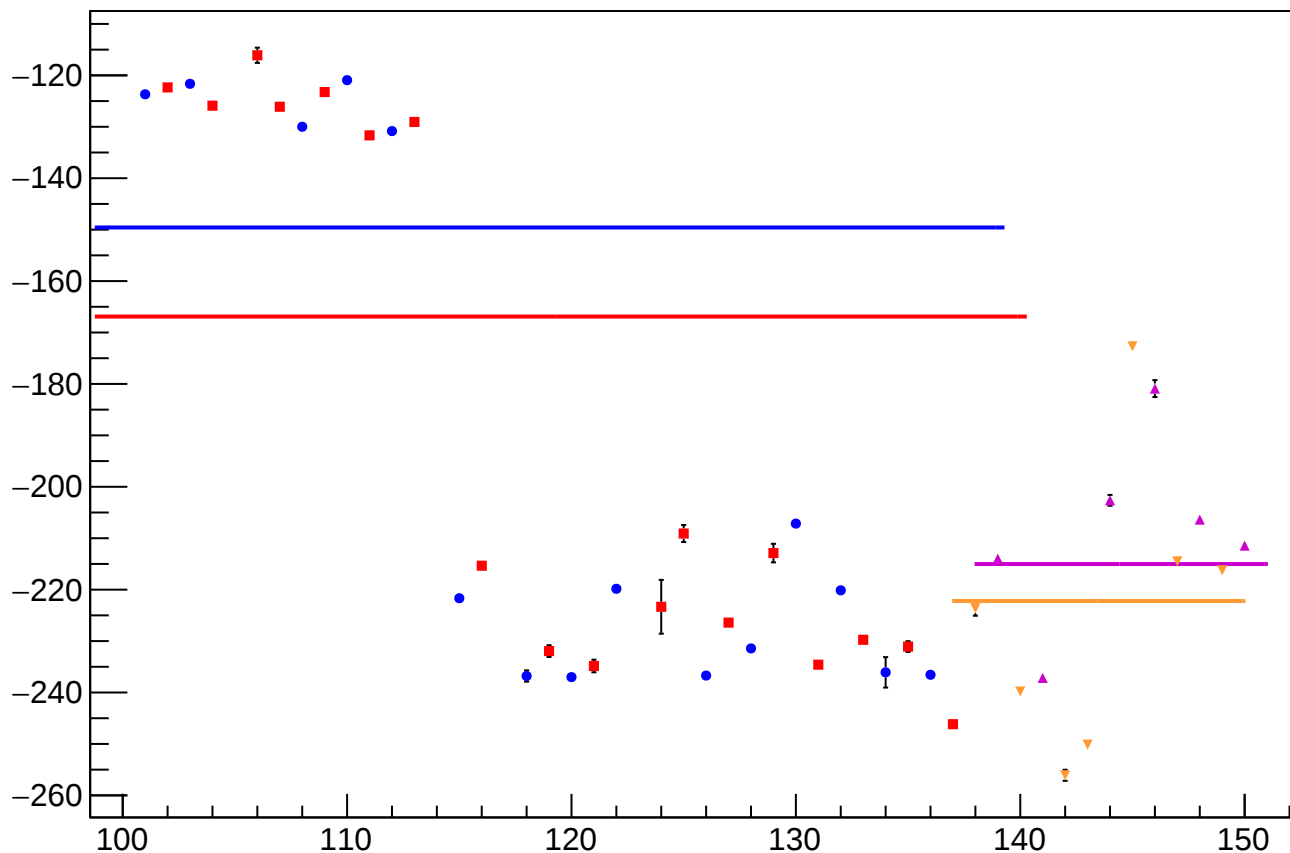
Right:  $10.880 \pm 0.112$   $\chi^2/\text{NDF}: 16004.9/32$

In:  $15.005 \pm 0.133$   $\chi^2/\text{NDF}: 12051.0/20$

Out:  $18.097 \pm 0.132$   $\chi^2/\text{NDF}: 18435.0/24$

All:  $16.560 \pm 0.094$   $\chi^2/\text{NDF}: 30757.5/45$

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}$ : 195091.5/14

Left Out:  $-222.202 \pm 0.268$   $\chi^2/\text{NDF}$ : 8545.6/6

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}$ : 295489.9/17

Left In:  $-215.020 \pm 0.170$   $\chi^2/\text{NDF}$ : 3324.9/5

Left:  $-217.078 \pm 0.144$   $\chi^2/\text{NDF}$ : 12382.5/12

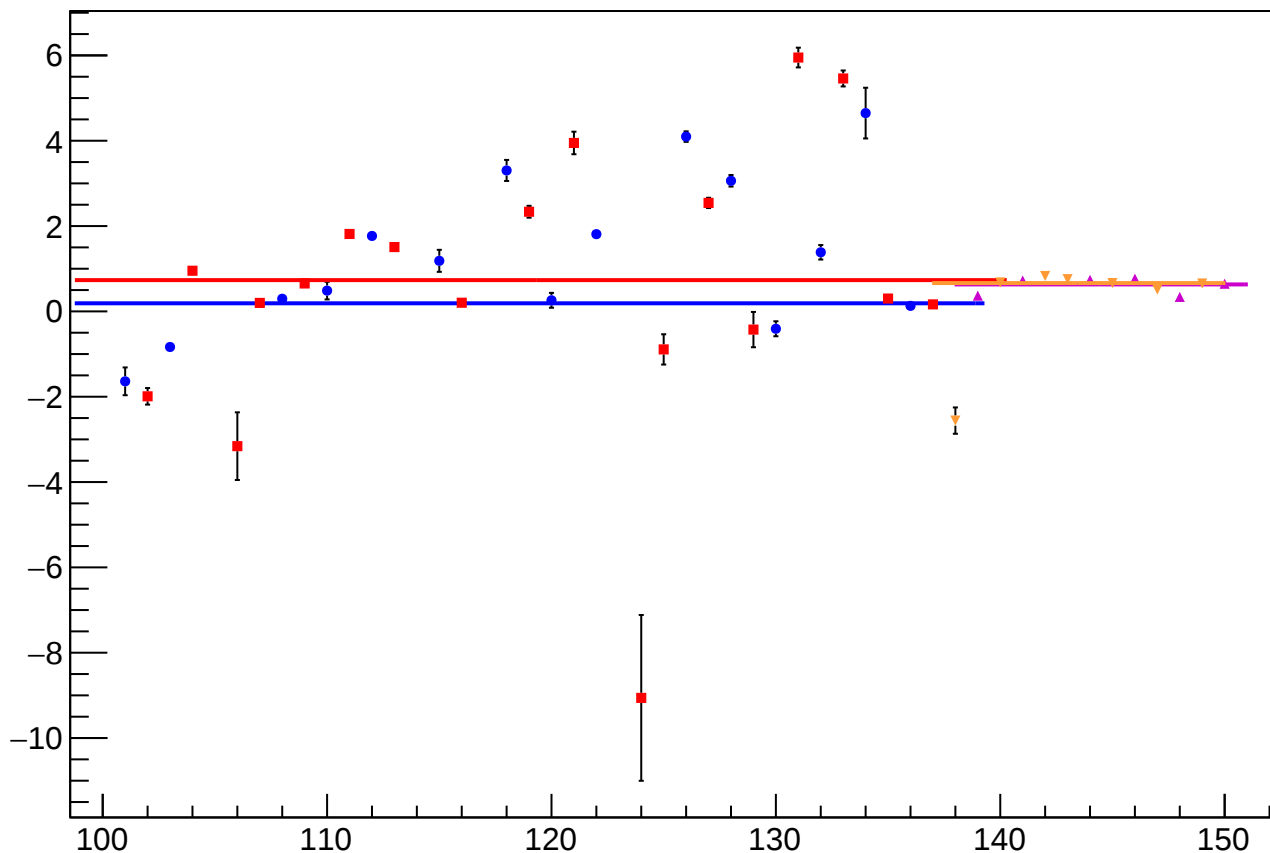
Right:  $-158.264 \pm 0.071$   $\chi^2/\text{NDF}$ : 505360.9/32

In:  $-166.634 \pm 0.087$   $\chi^2/\text{NDF}$ : 308092.9/20

Out:  $-173.725 \pm 0.094$   $\chi^2/\text{NDF}$ : 341345.3/24

All:  $-169.888 \pm 0.064$   $\chi^2/\text{NDF}$ : 652506.0/45

# dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.190 $\pm$ 0.009  $\chi^2$ /NDF: 2727.5/14

Left Out: 0.664 $\pm$ 0.005  $\chi^2$ /NDF:413.3/6

Right Out: 0.733 $\pm$ 0.020  $\chi^2$ /NDF: 2666.9/17

Left In: 0.632 $\pm$ 0.005  $\chi^2$ /NDF:1024.4/5

Left: 0.645 $\pm$ 0.003  $\chi^2$ /NDF: 1458.4/12

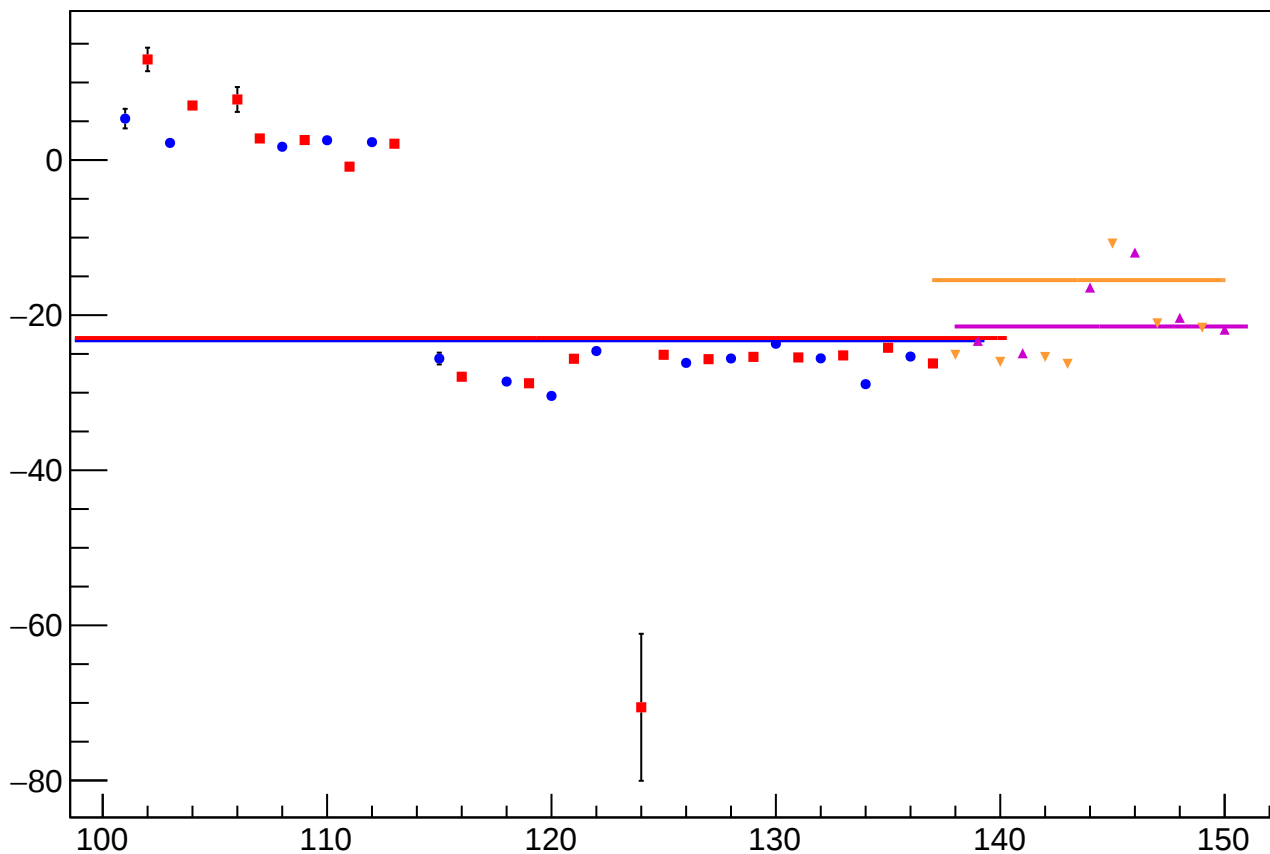
Right: 0.276 $\pm$ 0.008  $\chi^2$ /NDF: 6029.4/32

In: 0.535 $\pm$ 0.004  $\chi^2$ /NDF:5814.0/20

Out: 0.668 $\pm$ 0.005  $\chi^2$ /NDF:3091.6/24

All: 0.586 $\pm$ 0.003  $\chi^2$ /NDF: 9319.8/45

# dit\_sam4\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}: 103102.8/14$

Left Out:  $-15.484 \pm 0.021$   $\chi^2/\text{NDF}: 94962.0/6$

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}: 108039.1/17$

Left In:  $-21.461 \pm 0.033$   $\chi^2/\text{NDF}: 7969.1/5$

Left:  $-17.171 \pm 0.018$   $\chi^2/\text{NDF}: 126492.6/12$

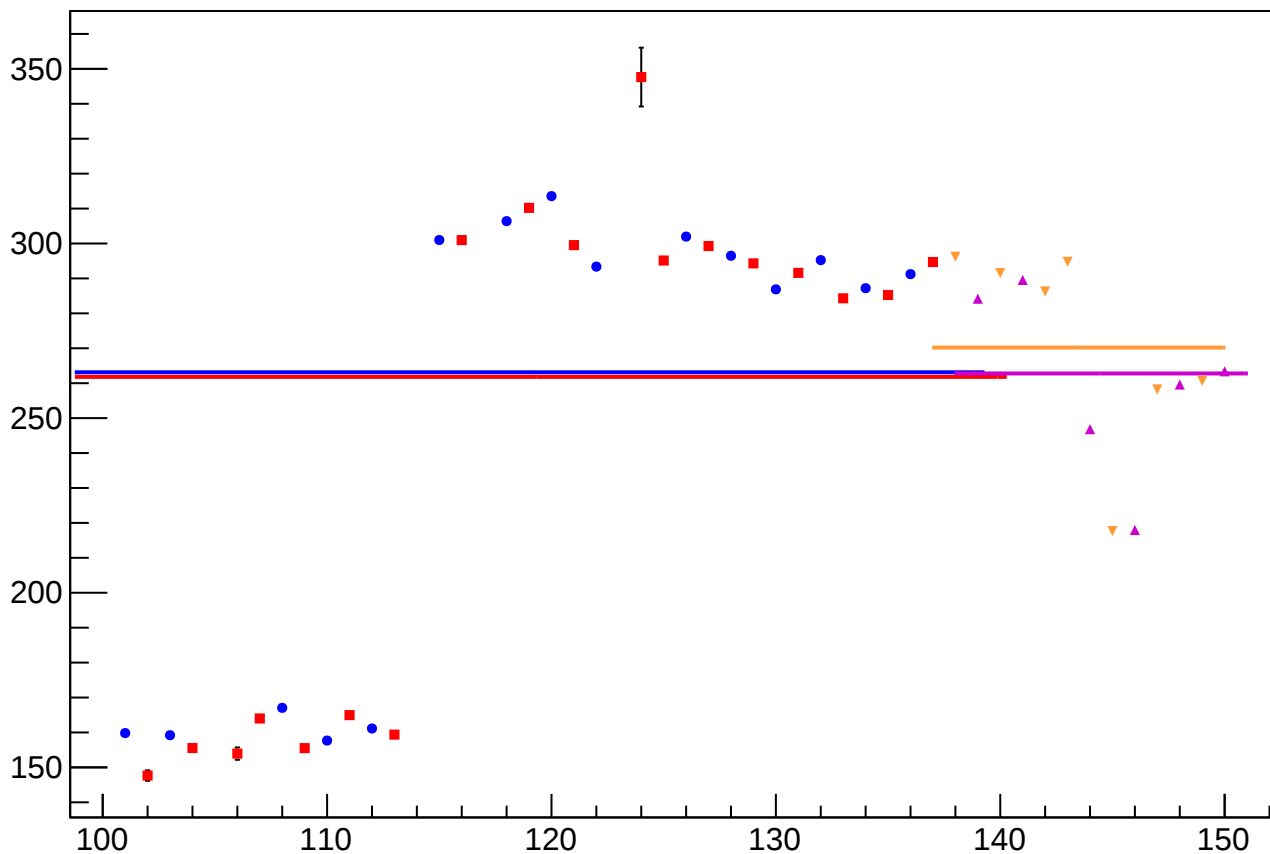
Right:  $-23.095 \pm 0.017$   $\chi^2/\text{NDF}: 211210.7/32$

In:  $-22.599 \pm 0.020$   $\chi^2/\text{NDF}: 112934.5/20$

Out:  $-18.565 \pm 0.016$   $\chi^2/\text{NDF}: 256729.1/24$

All:  $-20.141 \pm 0.012$   $\chi^2/\text{NDF}: 394952.5/45$

# dit\_sam4\_4eY\_slope vs Slug, Sign Corrected



Right In: 263.120 $\pm$ 0.069  $\chi^2$ /NDF: 692885.4/14

Left Out: 270.202 $\pm$ 0.065  $\chi^2$ /NDF:176958.8/6

Right Out: 261.814 $\pm$ 0.060  $\chi^2$ /NDF: 1006189.6/17

Left In: 262.787 $\pm$ 0.057  $\chi^2$ /NDF:34828.8/5

Left: 266.058 $\pm$ 0.043  $\chi^2$ /NDF: 219131.2/12

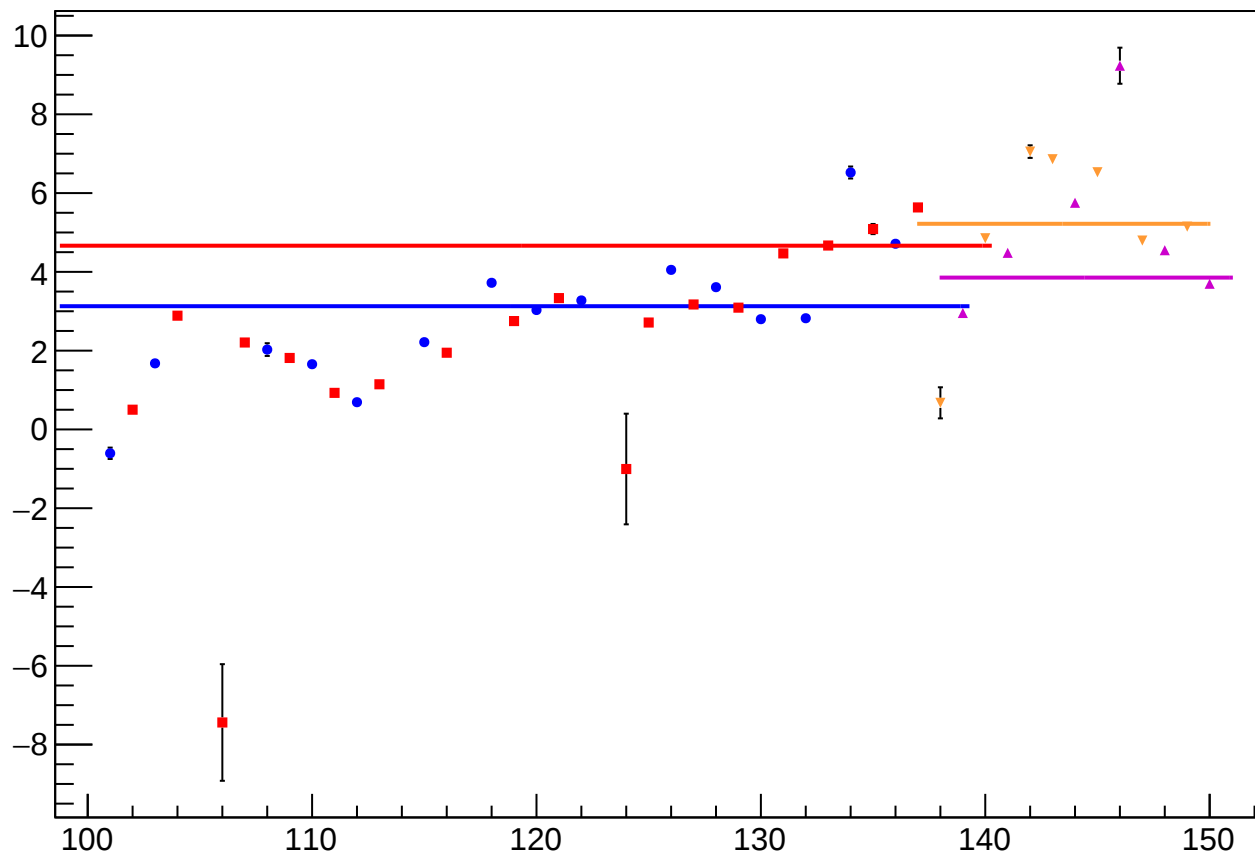
Right: 262.381 $\pm$ 0.045  $\chi^2$ /NDF: 1699277.6/32

In: 262.923 $\pm$ 0.044  $\chi^2$ /NDF:727727.9/20

Out: 265.724 $\pm$ 0.044  $\chi^2$ /NDF:1192125.6/24

All: 264.324 $\pm$ 0.031  $\chi^2$ /NDF: 1921863.1/45

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $5.220 \pm 0.022$   $\chi^2/\text{NDF}: 776.9/6$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

Left In:  $3.855 \pm 0.020$   $\chi^2/\text{NDF}: 1570.0/5$

Left:  $4.473 \pm 0.015$   $\chi^2/\text{NDF}: 4388.7/12$

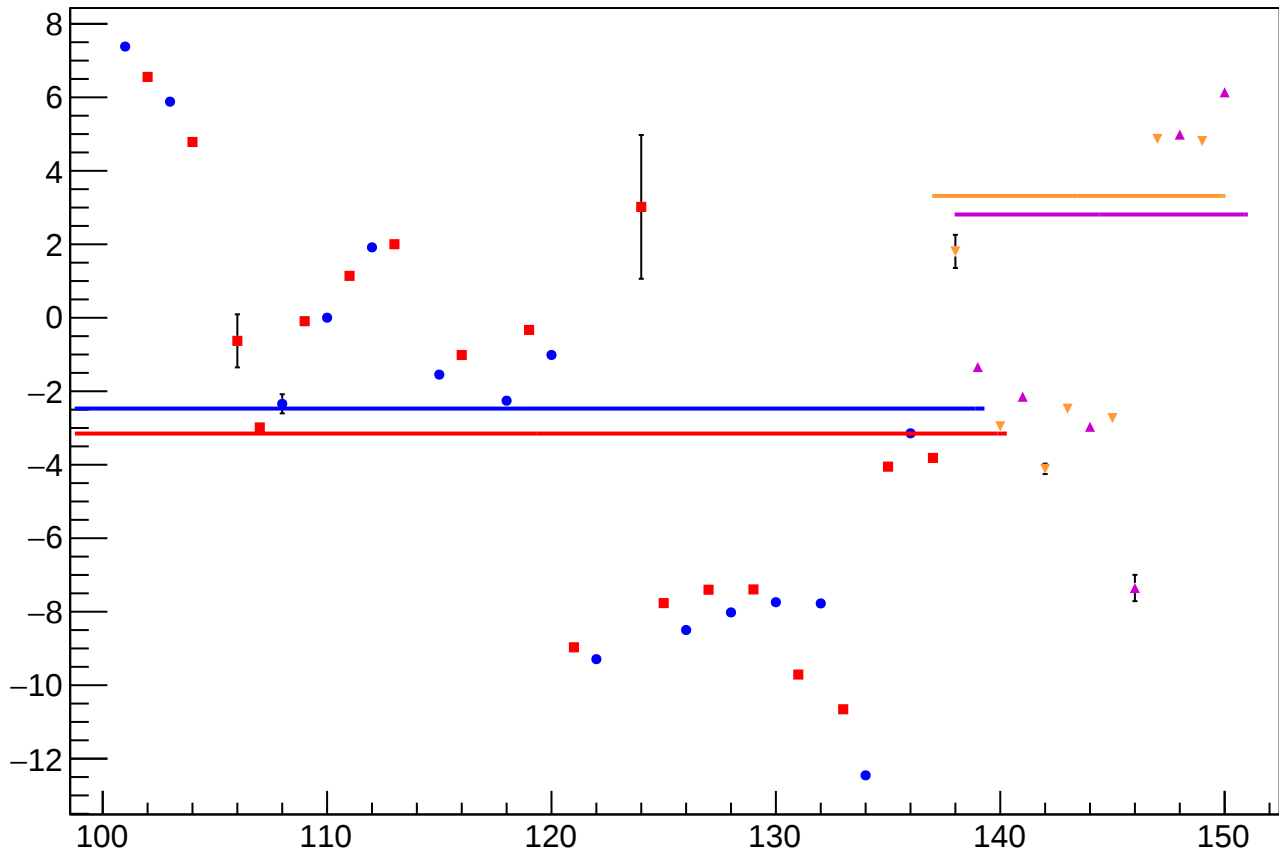
Right:  $4.450 \pm 0.006$   $\chi^2/\text{NDF}: 80704.7/32$

In:  $3.401 \pm 0.012$   $\chi^2/\text{NDF}: 8034.5/20$

Out:  $4.706 \pm 0.006$   $\chi^2/\text{NDF}: 68211.5/24$

All:  $4.453 \pm 0.005$   $\chi^2/\text{NDF}: 85095.5/45$

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $3.318 \pm 0.019$   $\chi^2/\text{NDF}: 27215.3/6$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

Left In:  $2.811 \pm 0.018$   $\chi^2/\text{NDF}: 47964.9/5$

Left:  $3.057 \pm 0.013$   $\chi^2/\text{NDF}: 75564.9/12$

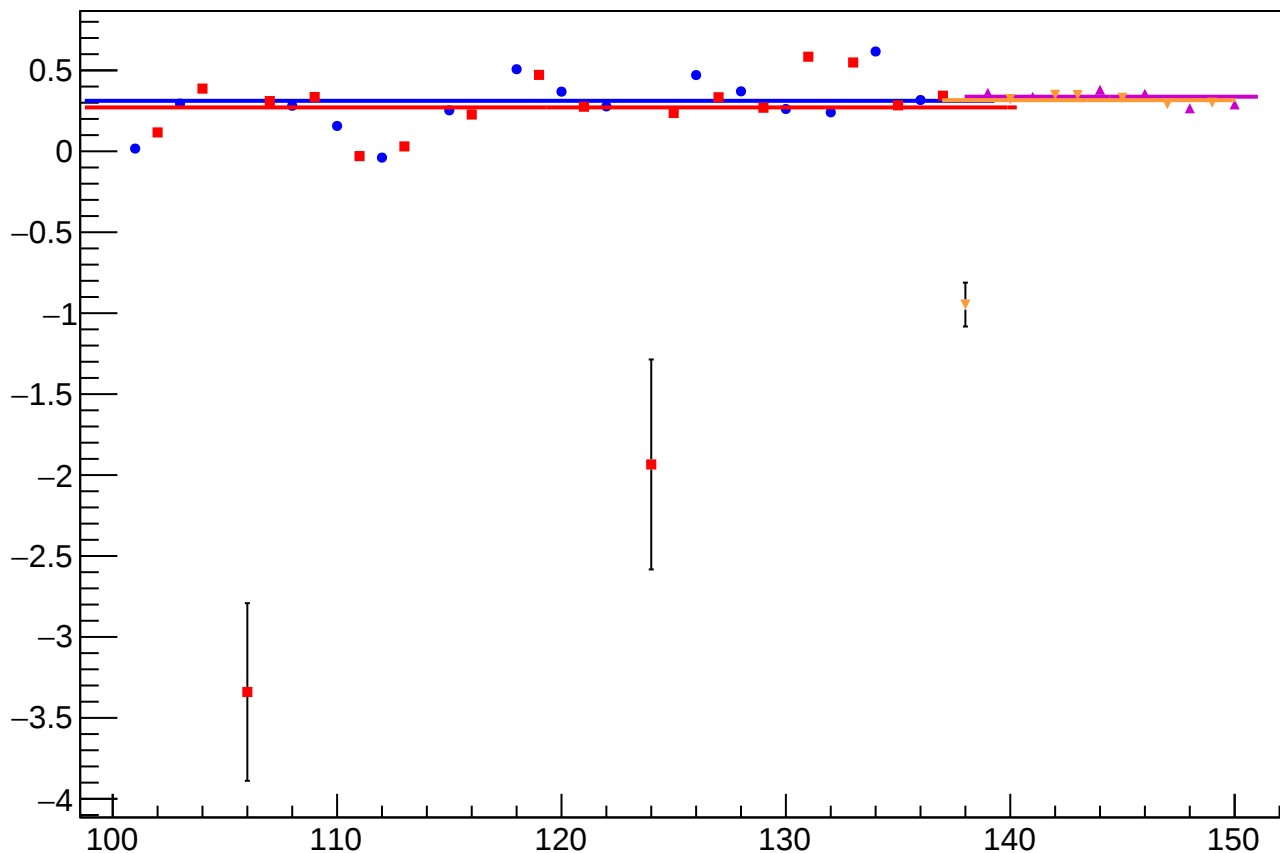
Right:  $-3.003 \pm 0.007$   $\chi^2/\text{NDF}: 491827.6/32$

In:  $-0.459 \pm 0.011$   $\chi^2/\text{NDF}: 343963.5/20$

Out:  $-2.255 \pm 0.007$   $\chi^2/\text{NDF}: 379599.2/24$

All:  $-1.754 \pm 0.006$   $\chi^2/\text{NDF}: 742444.8/45$

# dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}: 1319.2/14$

Left Out:  $0.316 \pm 0.001$   $\chi^2/\text{NDF}: 559.0/6$

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}: 6144.7/17$

Left In:  $0.337 \pm 0.001$   $\chi^2/\text{NDF}: 1861.4/5$

Left:  $0.326 \pm 0.001$   $\chi^2/\text{NDF}: 2611.3/12$

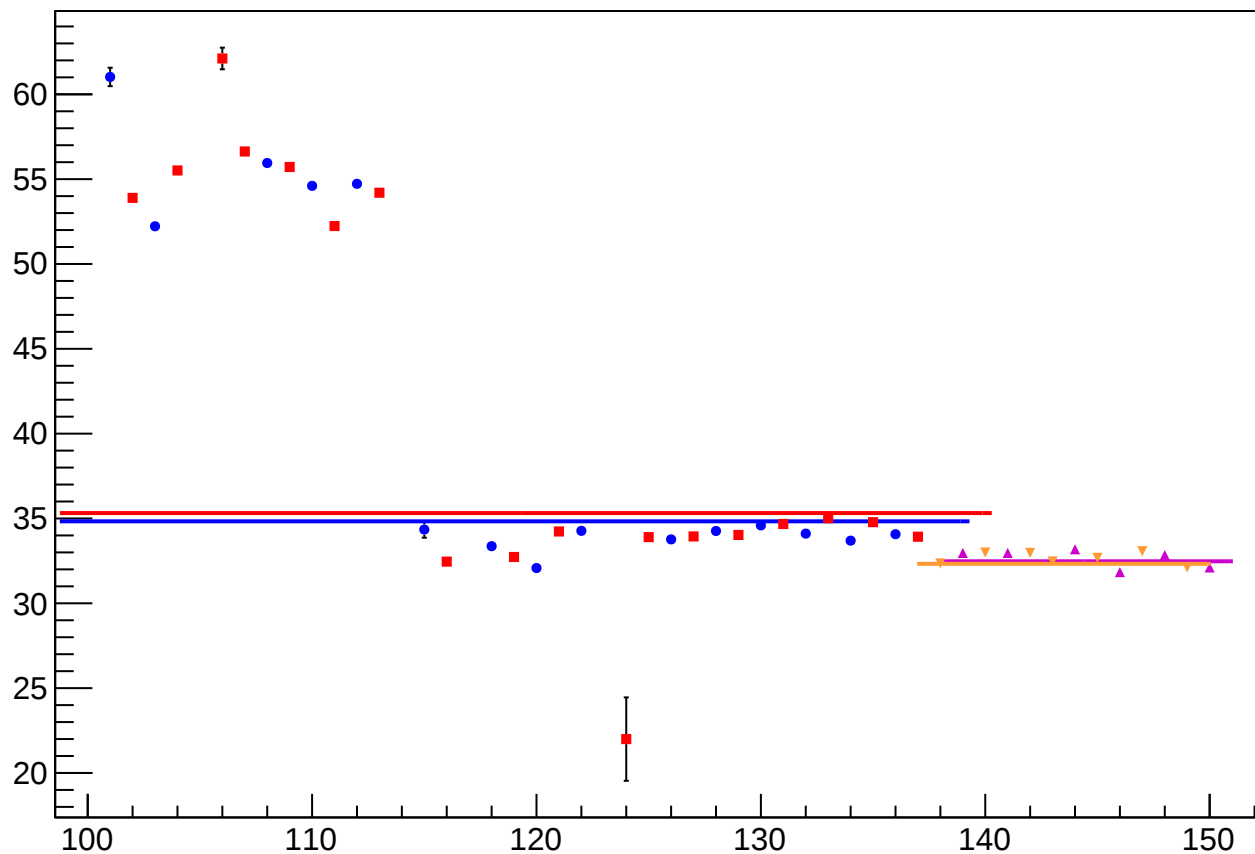
Right:  $0.301 \pm 0.001$   $\chi^2/\text{NDF}: 7735.2/32$

In:  $0.326 \pm 0.001$   $\chi^2/\text{NDF}: 3406.2/20$

Out:  $0.307 \pm 0.001$   $\chi^2/\text{NDF}: 7059.6/24$

All:  $0.318 \pm 0.001$   $\chi^2/\text{NDF}: 10707.3/45$

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 32.328 $\pm$ 0.007  $\chi^2$ /NDF:1791.8/6

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

Left In: 32.477 $\pm$ 0.010  $\chi^2$ /NDF:2599.6/5

Left: 32.381 $\pm$ 0.006  $\chi^2$ /NDF: 4544.9/12

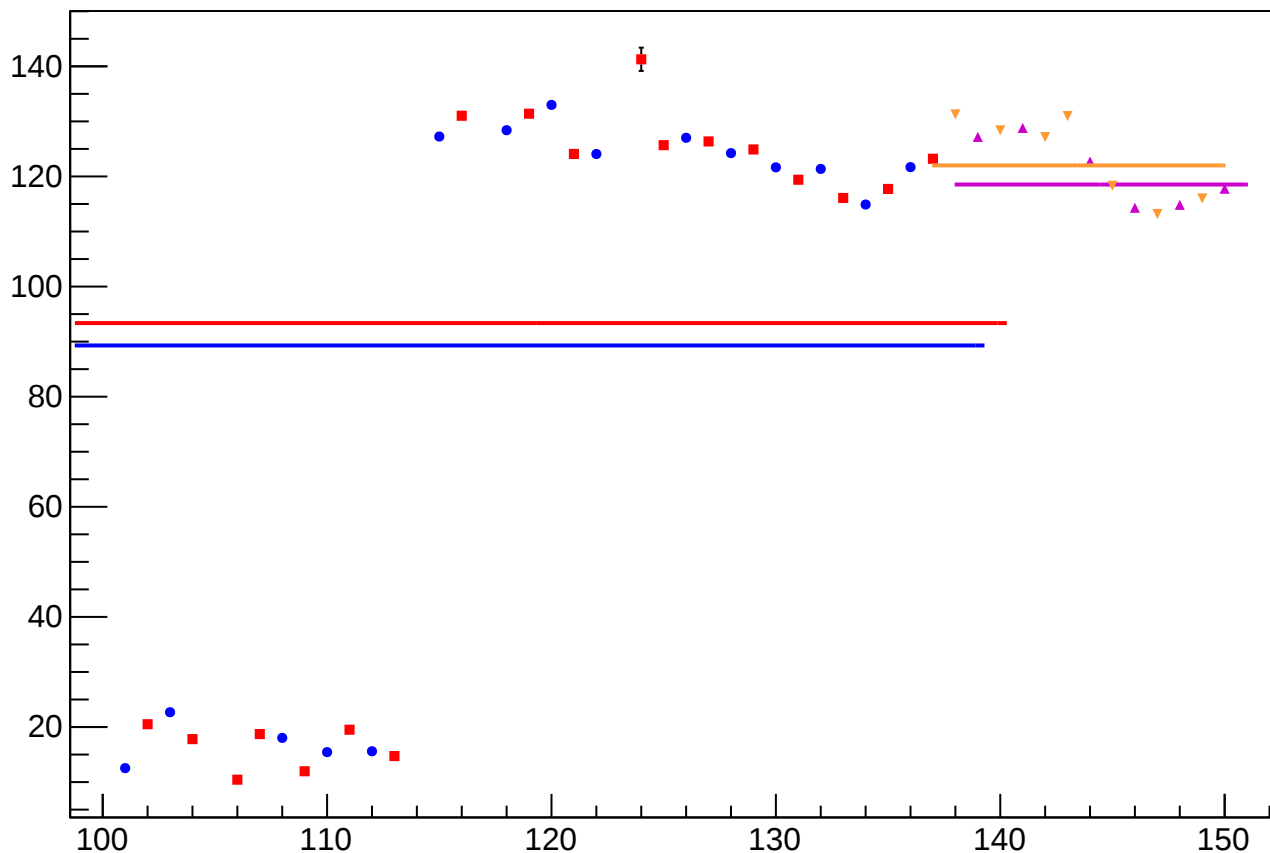
Right: 35.041 $\pm$ 0.007  $\chi^2$ /NDF: 508429.6/32

In: 33.786 $\pm$ 0.006  $\chi^2$ /NDF:281301.0/20

Out: 33.346 $\pm$ 0.006  $\chi^2$ /NDF:322868.0/24

All: 33.544 $\pm$ 0.004  $\chi^2$ /NDF: 606754.8/45

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In: 89.302 $\pm$ 0.027  $\chi^2$ /NDF: 3034485.1/14

Left Out: 122.008 $\pm$ 0.026  $\chi^2$ /NDF: 69589.3/6

Right Out: 93.367 $\pm$ 0.030  $\chi^2$ /NDF: 2852493.6/17

Left In: 118.533 $\pm$ 0.024  $\chi^2$ /NDF: 27120.6/5

Left: 120.130 $\pm$ 0.018  $\chi^2$ /NDF: 106446.7/12

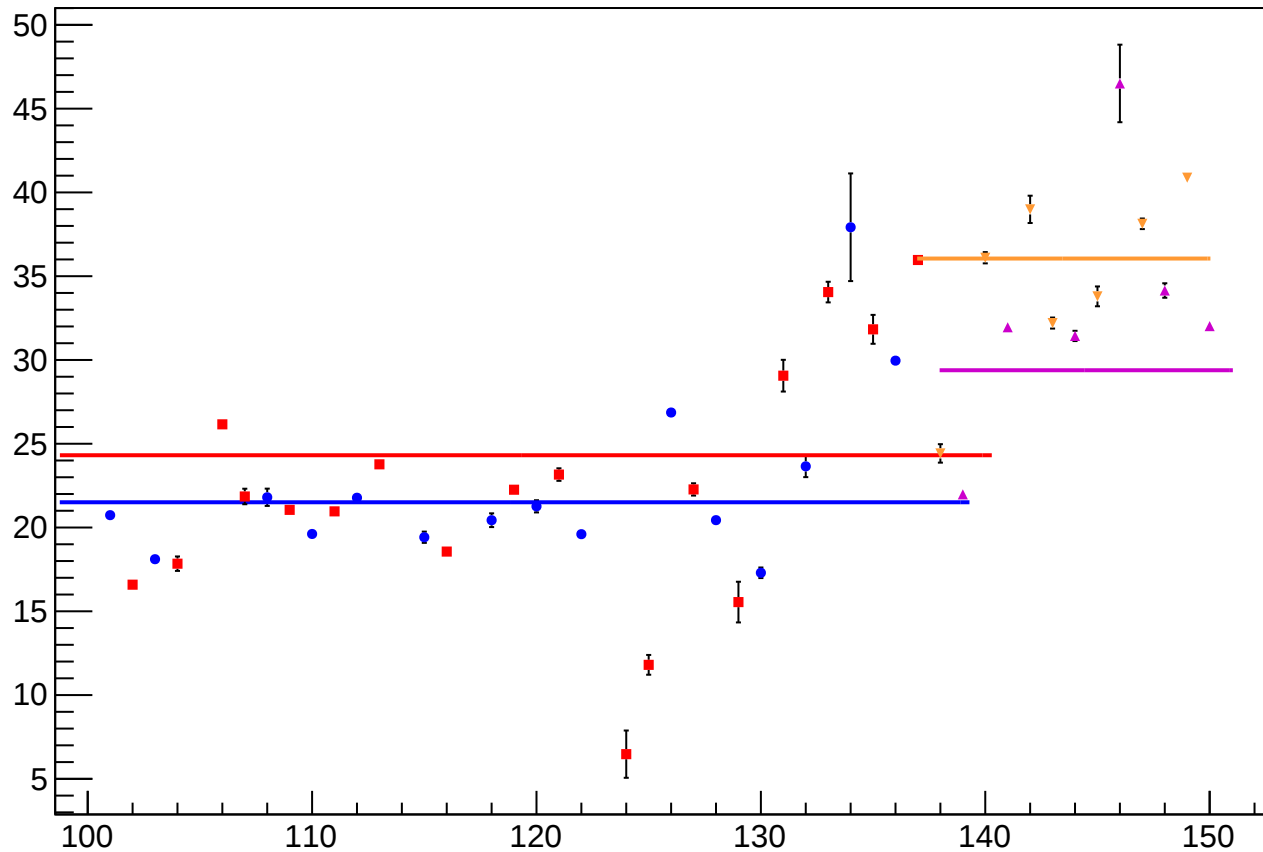
Right: 91.158 $\pm$ 0.020  $\chi^2$ /NDF: 5896996.6/32

In: 105.940 $\pm$ 0.018  $\chi^2$ /NDF: 3707639.1/20

Out: 109.758 $\pm$ 0.020  $\chi^2$ /NDF: 3445709.1/24

All: 107.690 $\pm$ 0.013  $\chi^2$ /NDF: 7173936.9/45

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}: 2963.0/14$

Left Out:  $36.054 \pm 0.146$   $\chi^2/\text{NDF}: 916.4/6$

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}: 14295.4/17$

Left In:  $29.387 \pm 0.108$   $\chi^2/\text{NDF}: 1811.0/5$

Left:  $31.748 \pm 0.087$   $\chi^2/\text{NDF}: 4079.2/12$

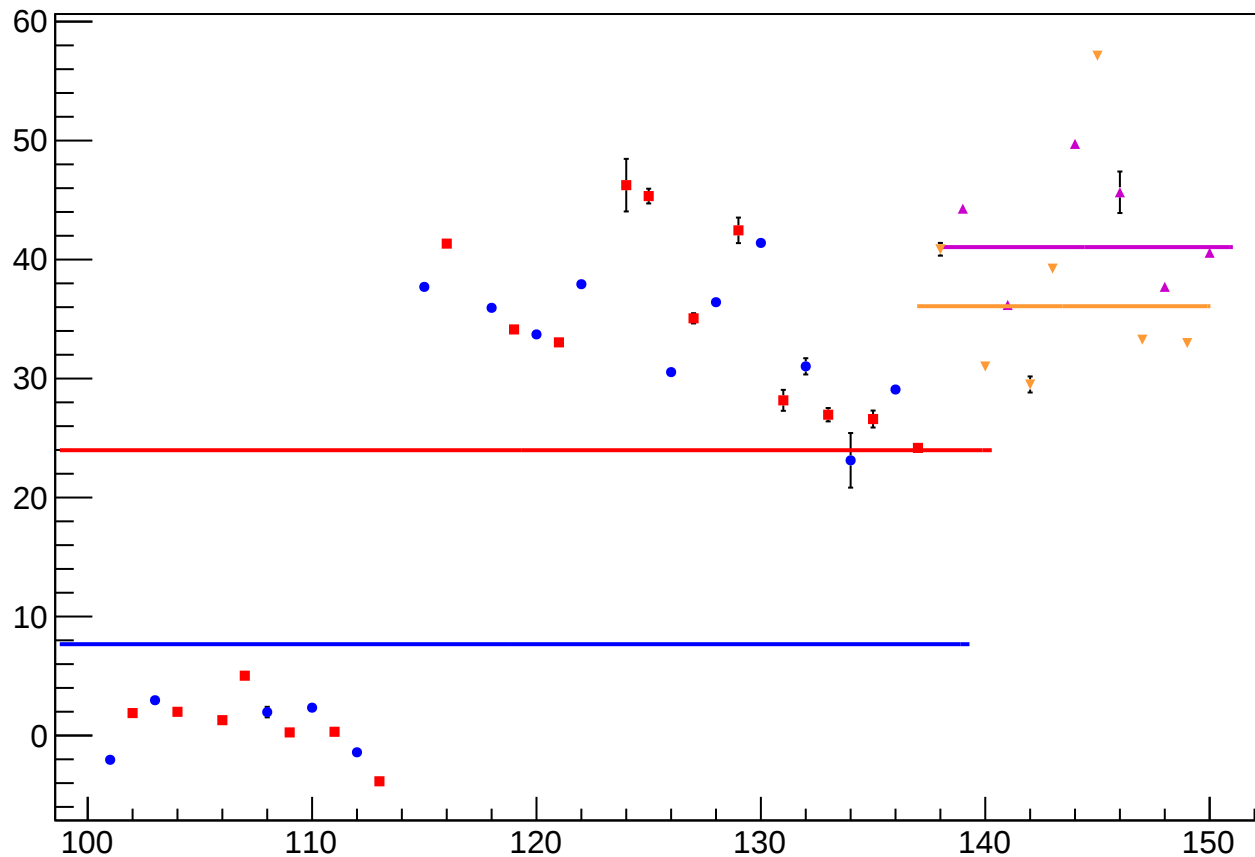
Right:  $23.204 \pm 0.045$   $\chi^2/\text{NDF}: 18169.2/32$

In:  $23.950 \pm 0.060$   $\chi^2/\text{NDF}: 8454.9/20$

Out:  $25.942 \pm 0.054$   $\chi^2/\text{NDF}: 20802.5/24$

All:  $25.047 \pm 0.040$   $\chi^2/\text{NDF}: 29862.7/45$

# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}: 96442.5/14$

Left Out:  $36.079 \pm 0.119$   $\chi^2/\text{NDF}: 3377.0/6$

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}: 110564.0/17$

Left In:  $41.048 \pm 0.089$   $\chi^2/\text{NDF}: 1540.9/5$

Left:  $39.280 \pm 0.071$   $\chi^2/\text{NDF}: 6034.2/12$

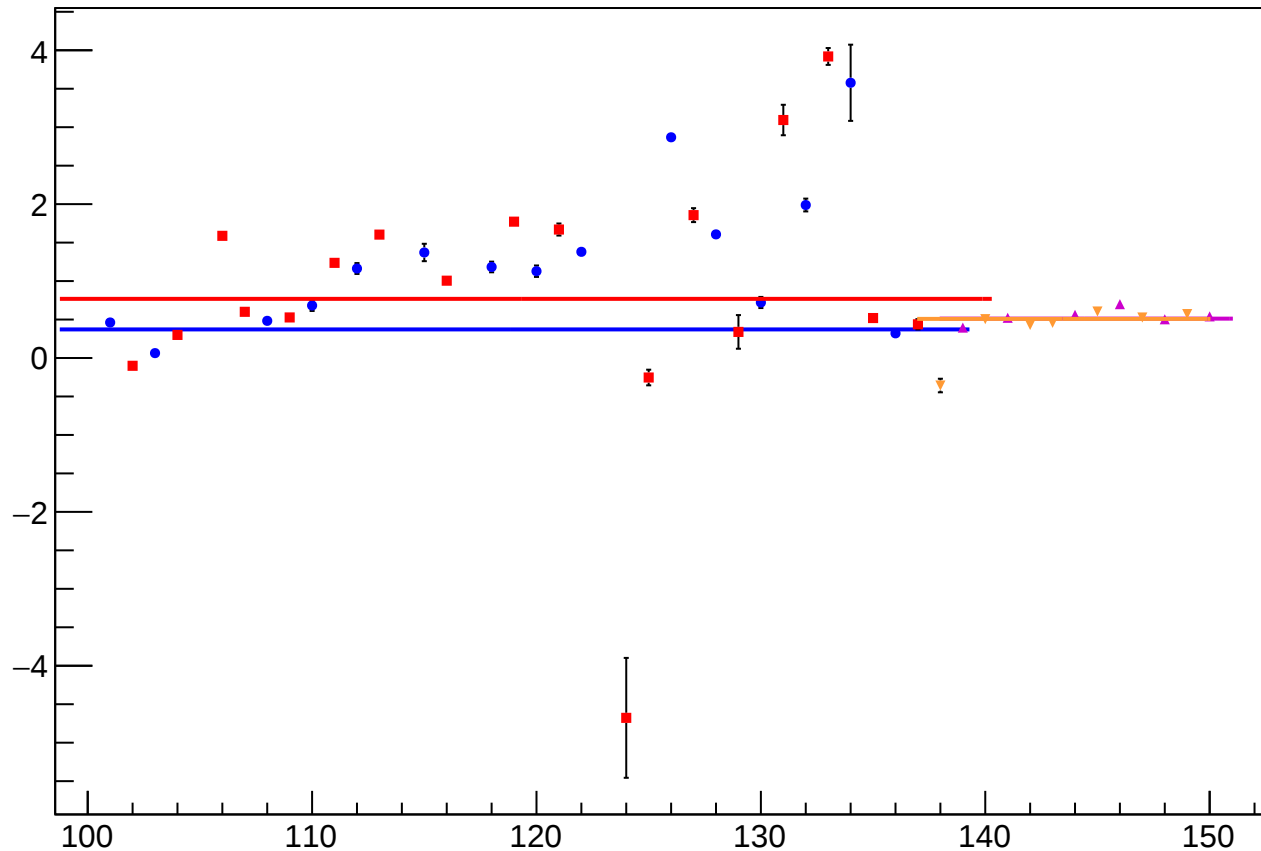
Right:  $23.461 \pm 0.008$   $\chi^2/\text{NDF}: 332774.6/32$

In:  $14.562 \pm 0.040$   $\chi^2/\text{NDF}: 210314.7/20$

Out:  $24.034 \pm 0.008$   $\chi^2/\text{NDF}: 124170.9/24$

All:  $23.661 \pm 0.008$   $\chi^2/\text{NDF}: 387550.7/45$

# dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}: 4748.7/14$

Left Out:  $0.508 \pm 0.002$   $\chi^2/\text{NDF}: 546.7/6$

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}: 4137.5/17$

Left In:  $0.512 \pm 0.002$   $\chi^2/\text{NDF}: 740.7/5$

Left:  $0.510 \pm 0.002$   $\chi^2/\text{NDF}: 1288.5/12$

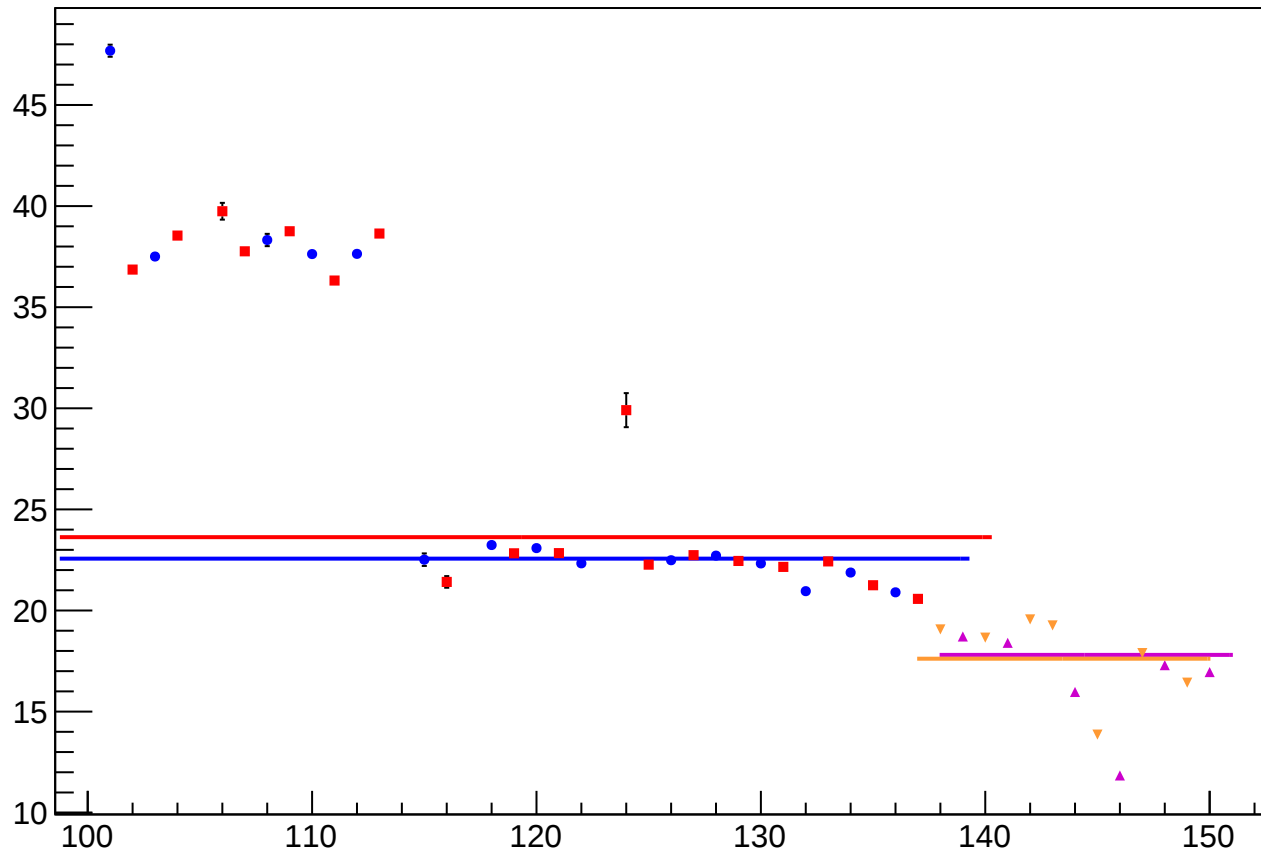
Right:  $0.484 \pm 0.004$   $\chi^2/\text{NDF}: 11237.9/32$

In:  $0.485 \pm 0.002$   $\chi^2/\text{NDF}: 6326.3/20$

Out:  $0.531 \pm 0.002$   $\chi^2/\text{NDF}: 5969.3/24$

All:  $0.506 \pm 0.001$   $\chi^2/\text{NDF}: 12568.9/45$

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 22.565+/-0.010  $\chi^2/\text{NDF}$ : 92859.1/14

Left Out: 17.616+/-0.010  $\chi^2/\text{NDF}$ : 38547.3/6

Right Out: 23.627+/-0.011  $\chi^2/\text{NDF}$ : 123194.1/17

Left In: 17.805+/-0.015  $\chi^2/\text{NDF}$ : 5605.0/5

Left: 17.676+/-0.008  $\chi^2/\text{NDF}$ : 44262.4/12

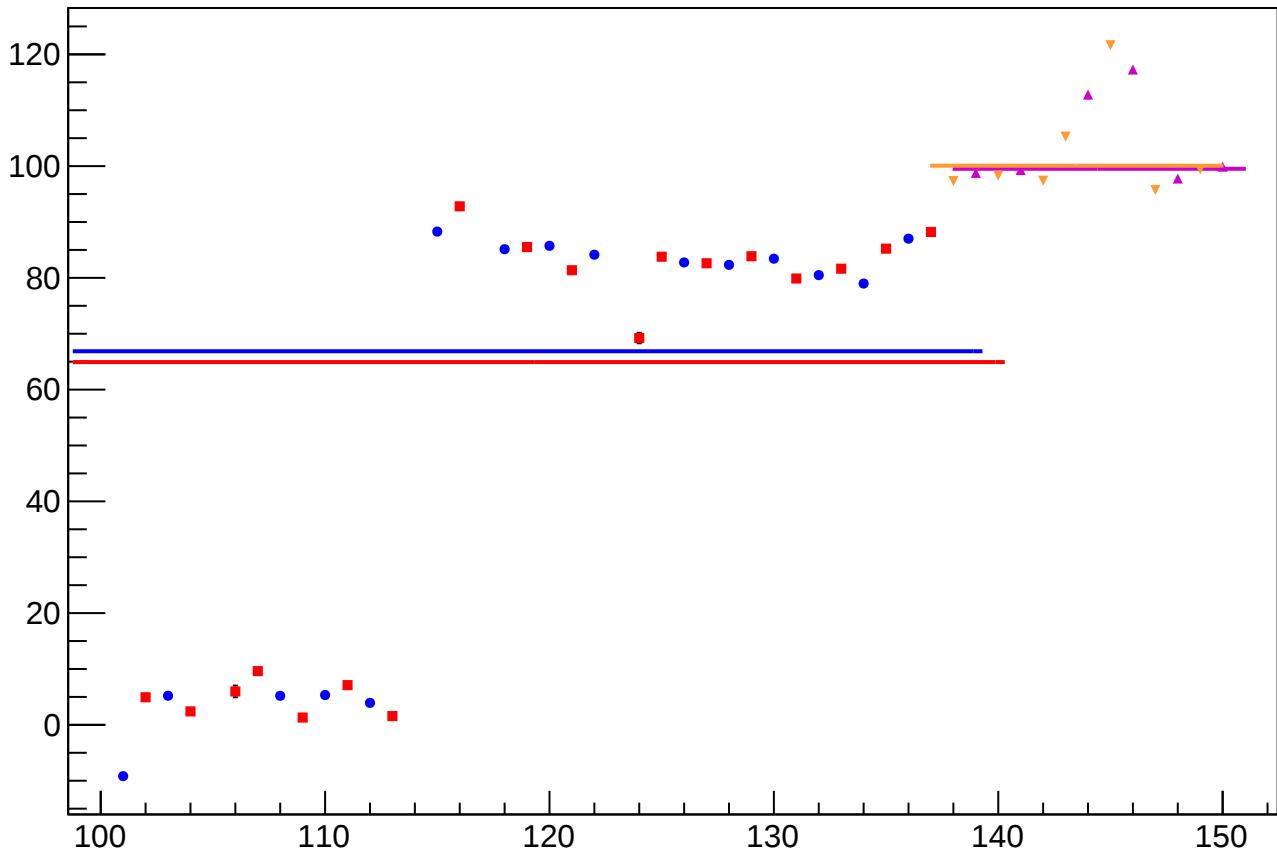
Right: 23.044+/-0.008  $\chi^2/\text{NDF}$ : 220970.6/32

In: 21.043+/-0.008  $\chi^2/\text{NDF}$ : 168437.7/20

Out: 20.324+/-0.008  $\chi^2/\text{NDF}$ : 319396.0/24

All: 20.645+/-0.006  $\chi^2/\text{NDF}$ : 491902.1/45

# dit\_sam6\_4eY\_slope vs Slug, Sign Corrected



Right In: 66.866+/-0.027  $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out: 100.074+/-0.018  $\chi^2/\text{NDF}$ : 58939.4/6

Right Out: 64.929+/-0.030  $\chi^2/\text{NDF}$ : 1334580.7/17

Left In: 99.523+/-0.021  $\chi^2/\text{NDF}$ : 4999.8/5

Left: 99.842+/-0.014  $\chi^2/\text{NDF}$ : 64321.2/12

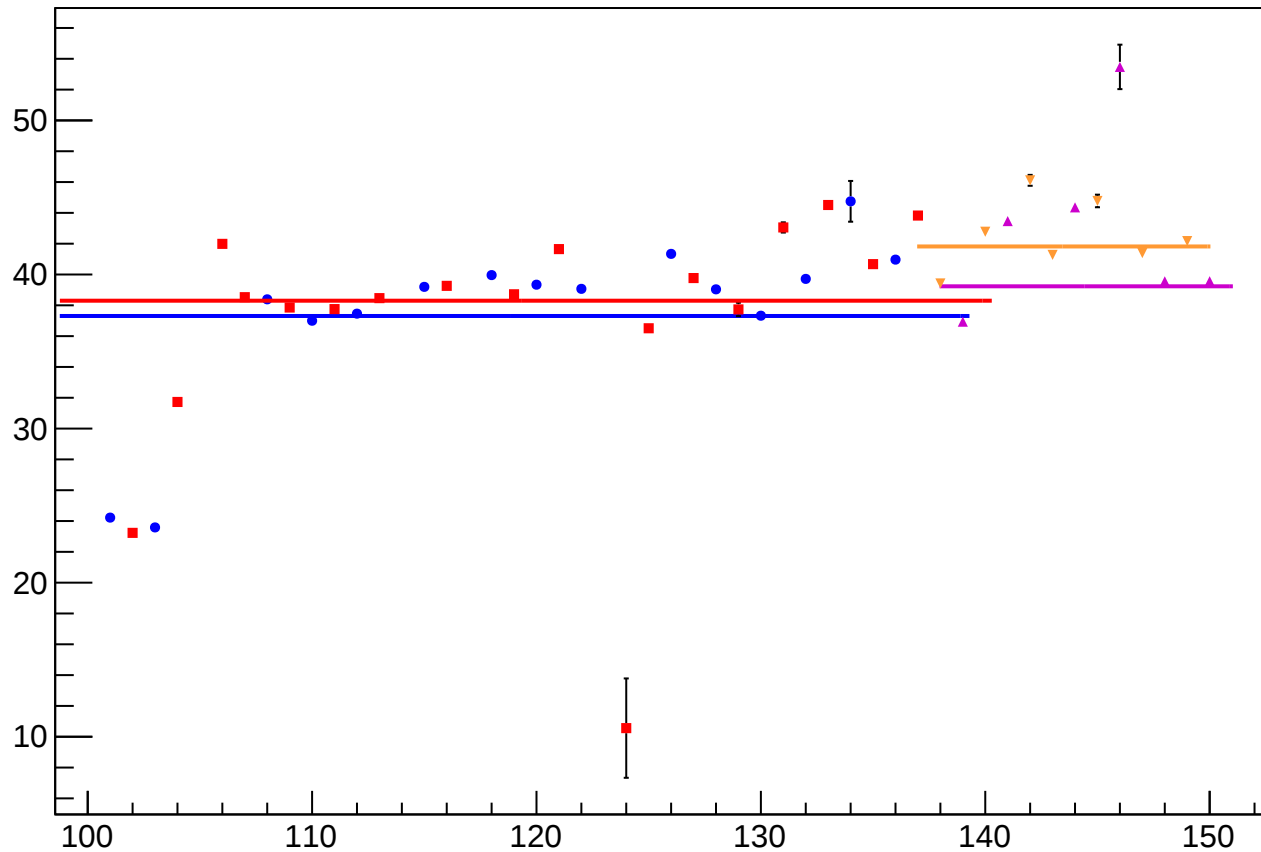
Right: 65.988+/-0.020  $\chi^2/\text{NDF}$ : 283116.5/32

In: 86.921+/-0.017  $\chi^2/\text{NDF}$ : 2393588.3/20

Out: 90.435+/-0.016  $\chi^2/\text{NDF}$ : 2407871.1/24

All: 88.813+/-0.011  $\chi^2/\text{NDF}$ : 4824993.1/45

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In: 37.308 $\pm$ 0.023  $\chi^2$ /NDF: 59580.0/14

Left Out: 41.820 $\pm$ 0.060  $\chi^2$ /NDF: 385.2/6

Right Out: 38.300 $\pm$ 0.021  $\chi^2$ /NDF: 18840.0/17

Left In: 39.234 $\pm$ 0.043  $\chi^2$ /NDF: 3050.5/5

Left: 40.117 $\pm$ 0.035  $\chi^2$ /NDF: 4676.0/12

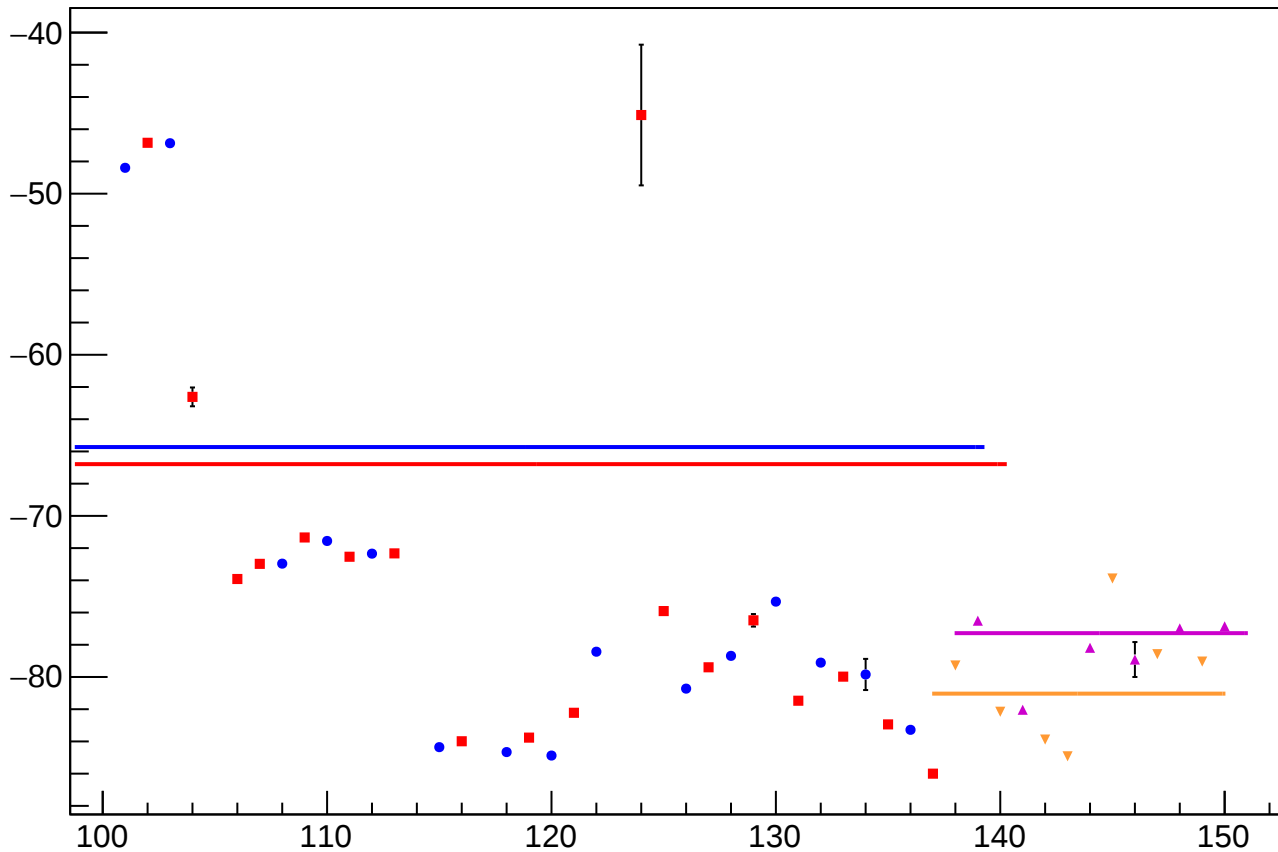
Right: 37.862 $\pm$ 0.015  $\chi^2$ /NDF: 79451.9/32

In: 37.740 $\pm$ 0.020  $\chi^2$ /NDF: 64193.3/20

Out: 38.673 $\pm$ 0.019  $\chi^2$ /NDF: 22344.8/24

All: 38.228 $\pm$ 0.014  $\chi^2$ /NDF: 87640.1/45

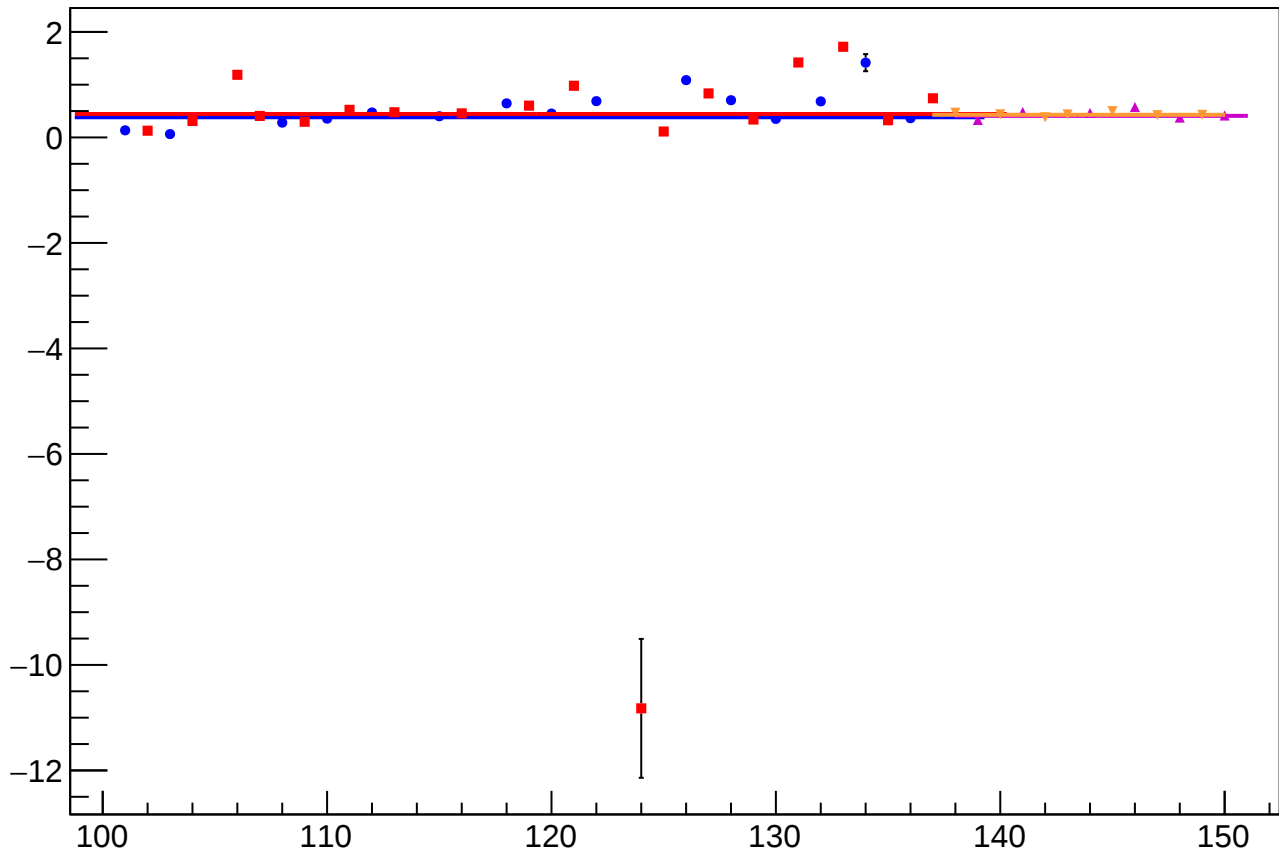
# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$   
 Left Out:  $-81.033 \pm 0.050$   $\chi^2/\text{NDF}: 3433.9/6$   
 Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$   
 Left In:  $-77.279 \pm 0.033$   $\chi^2/\text{NDF}: 2171.4/5$

Left:  $-78.450 \pm 0.028$   $\chi^2/\text{NDF}: 9524.4/12$   
 Right:  $-66.292 \pm 0.012$   $\chi^2/\text{NDF}: 1714516.0/32$   
 In:  $-68.061 \pm 0.015$   $\chi^2/\text{NDF}: 1000165.6/20$   
 Out:  $-68.095 \pm 0.015$   $\chi^2/\text{NDF}: 887278.5/24$   
 All:  $-68.078 \pm 0.011$   $\chi^2/\text{NDF}: 1887446.6/45$

# dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.429 $\pm$ 0.001  $\chi^2$ /NDF:115.4/6

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

Left In: 0.409 $\pm$ 0.001  $\chi^2$ /NDF:2086.6/5

Left: 0.420 $\pm$ 0.001  $\chi^2$ /NDF: 2382.4/12

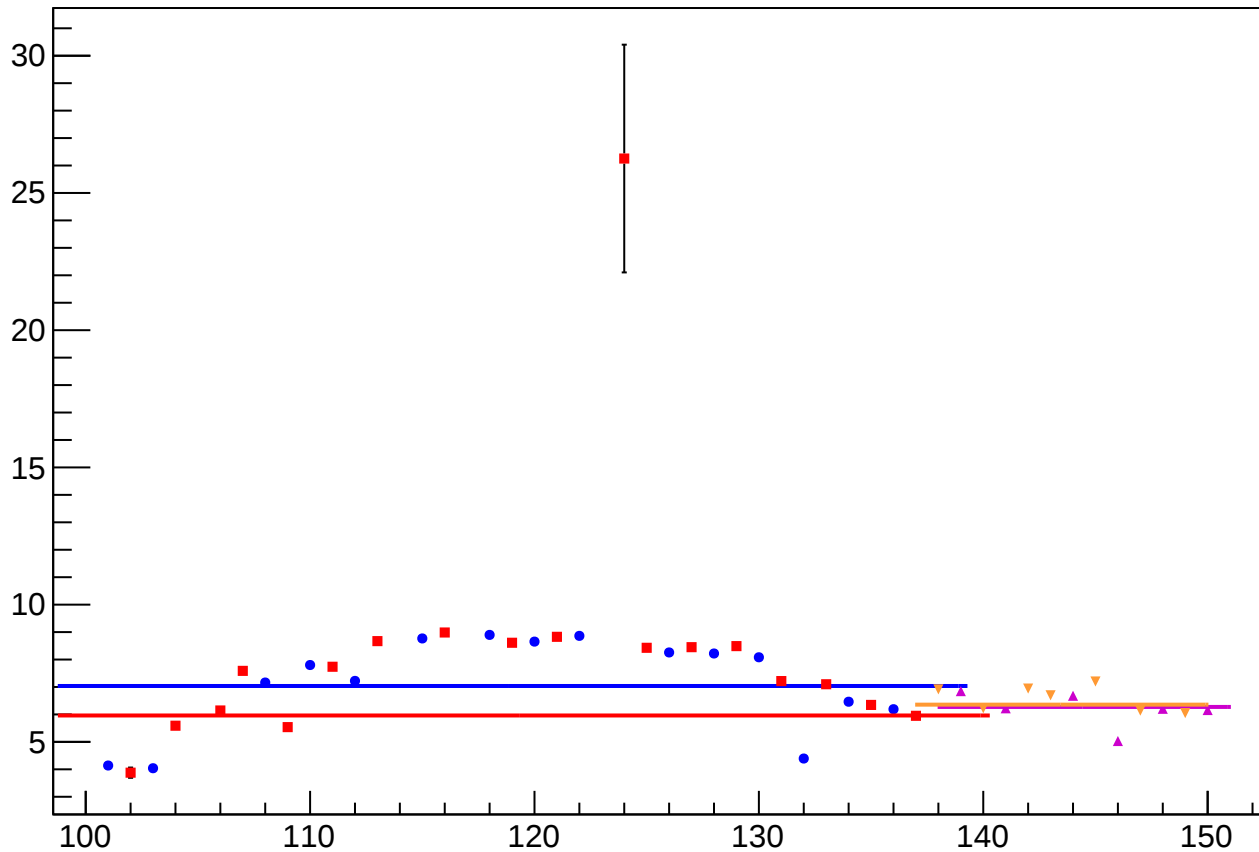
Right: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 11182.8/32

In: 0.402 $\pm$ 0.001  $\chi^2$ /NDF:10409.3/20

Out: 0.430 $\pm$ 0.001  $\chi^2$ /NDF:2917.2/24

All: 0.416 $\pm$ 0.001  $\chi^2$ /NDF: 13745.9/45

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In: 7.036+/-0.005     $\chi^2/\text{NDF}$ : 69905.1/14

Left Out: 6.356+/-0.003     $\chi^2/\text{NDF}$ :13117.9/6

Right Out: 5.962+/-0.000     $\chi^2/\text{NDF}$ : 168372.8/17

Left In: 6.273+/-0.003     $\chi^2/\text{NDF}$ :7535.8/5

Left: 6.308+/-0.002     $\chi^2/\text{NDF}$ : 21088.9/12

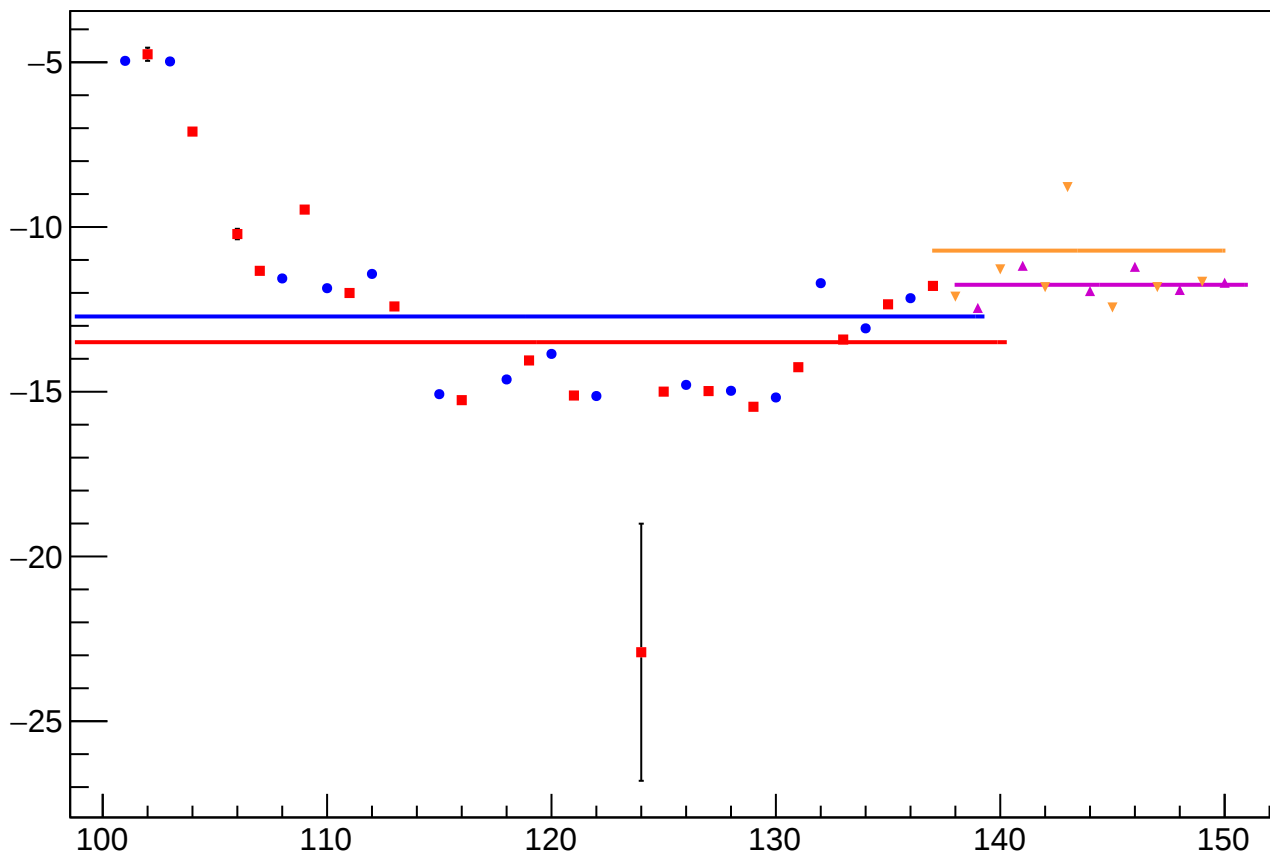
Right: 5.970+/-0.000     $\chi^2/\text{NDF}$ : 294275.6/32

In: 6.462+/-0.002     $\chi^2/\text{NDF}$ :98868.9/20

Out: 5.969+/-0.000     $\chi^2/\text{NDF}$ :198100.0/24

All: 5.984+/-0.000     $\chi^2/\text{NDF}$ : 343536.2/45

# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In: -12.715 $\pm$ 0.006  $\chi^2$ /NDF: 85219.4/14

Left Out: -10.717 $\pm$ 0.004  $\chi^2$ /NDF:150444.2/6

Right Out: -13.496 $\pm$ 0.006  $\chi^2$ /NDF: 55753.8/17

Left In: -11.754 $\pm$ 0.004  $\chi^2$ /NDF:4046.7/5

Left: -11.209 $\pm$ 0.003  $\chi^2$ /NDF: 191990.3/12

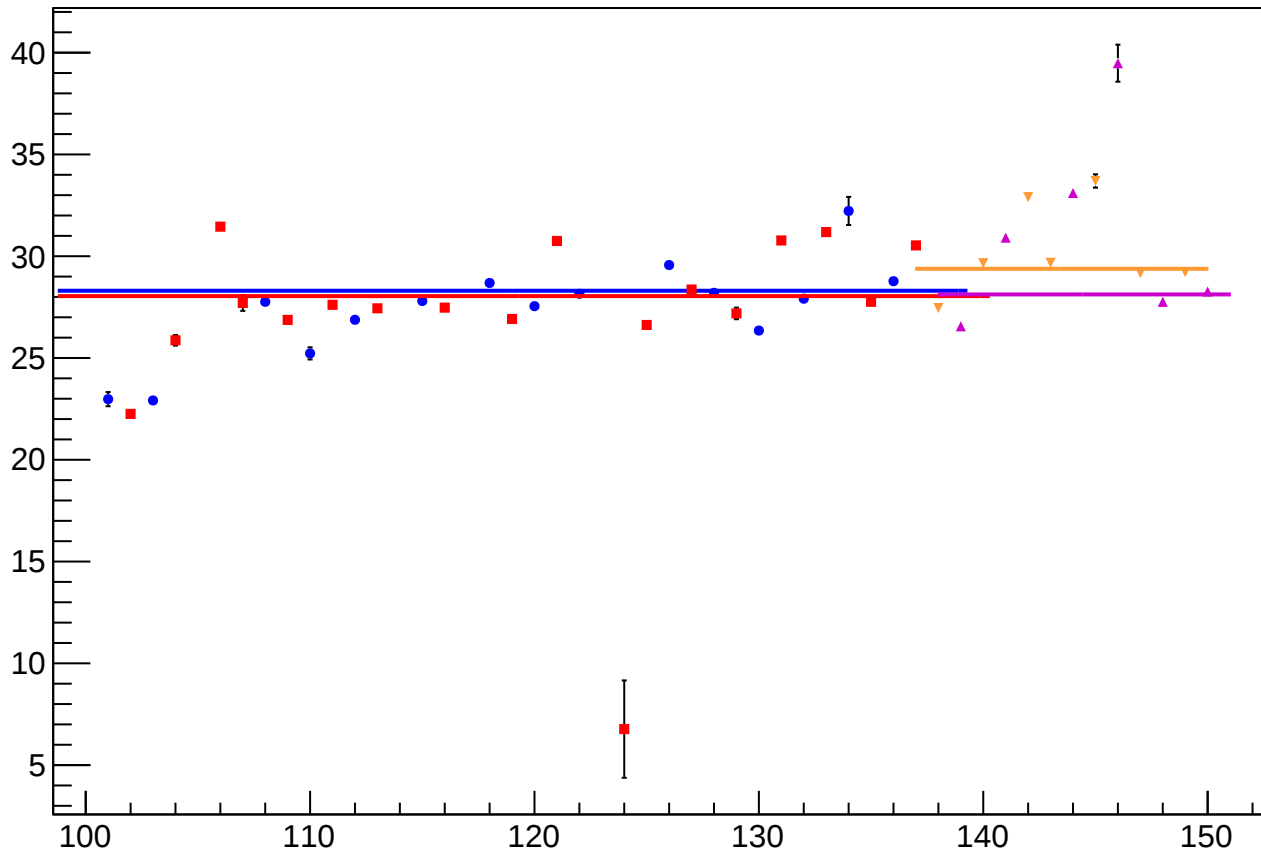
Right: -13.142 $\pm$ 0.004  $\chi^2$ /NDF: 149153.5/32

In: -12.013 $\pm$ 0.003  $\chi^2$ /NDF:105863.4/20

Out: -11.516 $\pm$ 0.003  $\chi^2$ /NDF:369172.5/24

All: -11.749 $\pm$ 0.002  $\chi^2$ /NDF: 487007.9/45

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In: 28.304 $\pm$ 0.023  $\chi^2$ /NDF: 3400.0/14

Left Out: 29.382 $\pm$ 0.038  $\chi^2$ /NDF: 775.4/6

Right Out: 28.040 $\pm$ 0.030  $\chi^2$ /NDF: 2561.5/17

Left In: 28.123 $\pm$ 0.028  $\chi^2$ /NDF: 2869.2/5

Left: 28.579 $\pm$ 0.023  $\chi^2$ /NDF: 4352.5/12

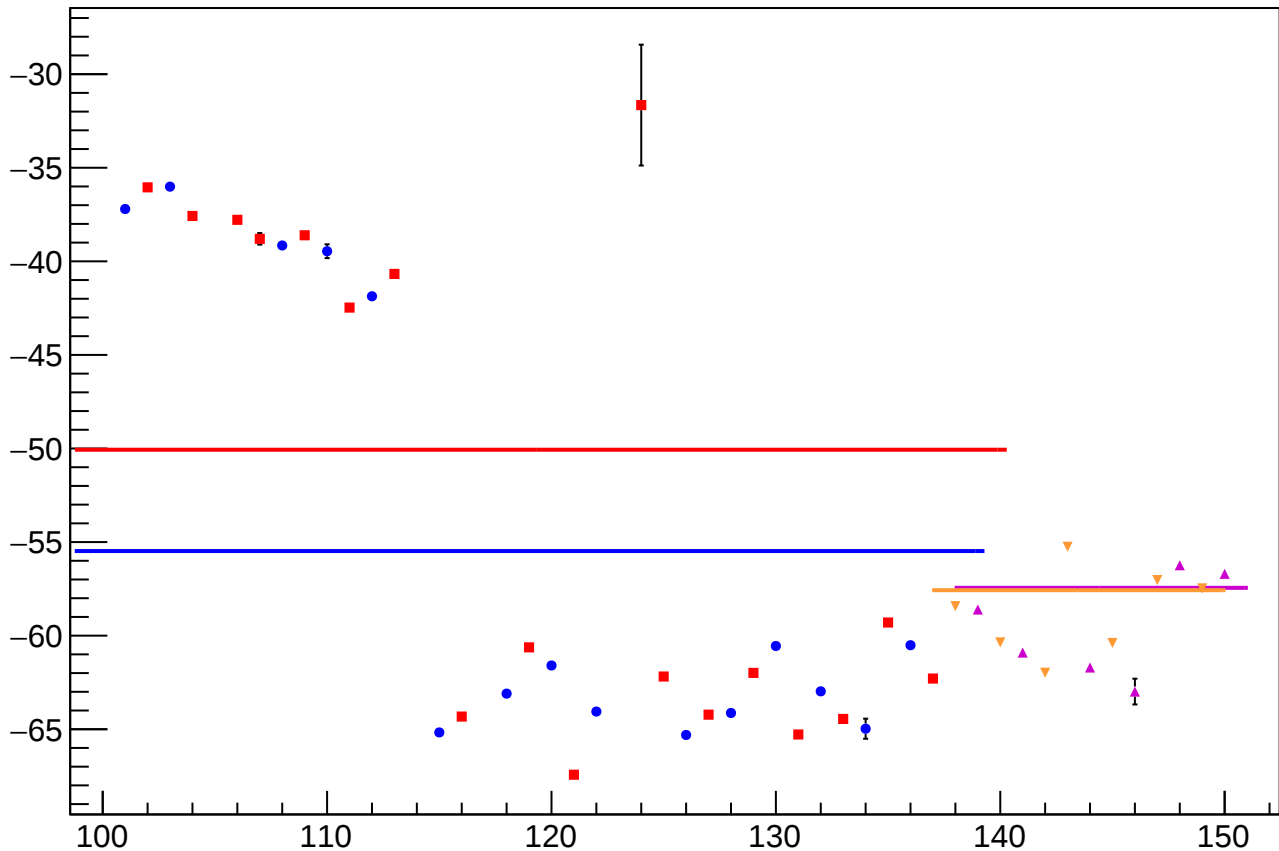
Right: 28.207 $\pm$ 0.018  $\chi^2$ /NDF: 6009.6/32

In: 28.232 $\pm$ 0.018  $\chi^2$ /NDF: 6293.6/20

Out: 28.565 $\pm$ 0.024  $\chi^2$ /NDF: 4104.6/24

All: 28.354 $\pm$ 0.014  $\chi^2$ /NDF: 10523.9/45

# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In: -55.480 $\pm$ 0.017  $\chi^2$ /NDF: 595140.3/14

Left Out: -57.571 $\pm$ 0.033  $\chi^2$ /NDF: 3135.6/6

Right Out: -50.065 $\pm$ 0.023  $\chi^2$ /NDF: 340098.3/17

Left In: -57.444 $\pm$ 0.025  $\chi^2$ /NDF: 4214.2/5

Left: -57.492 $\pm$ 0.020  $\chi^2$ /NDF: 7359.3/12

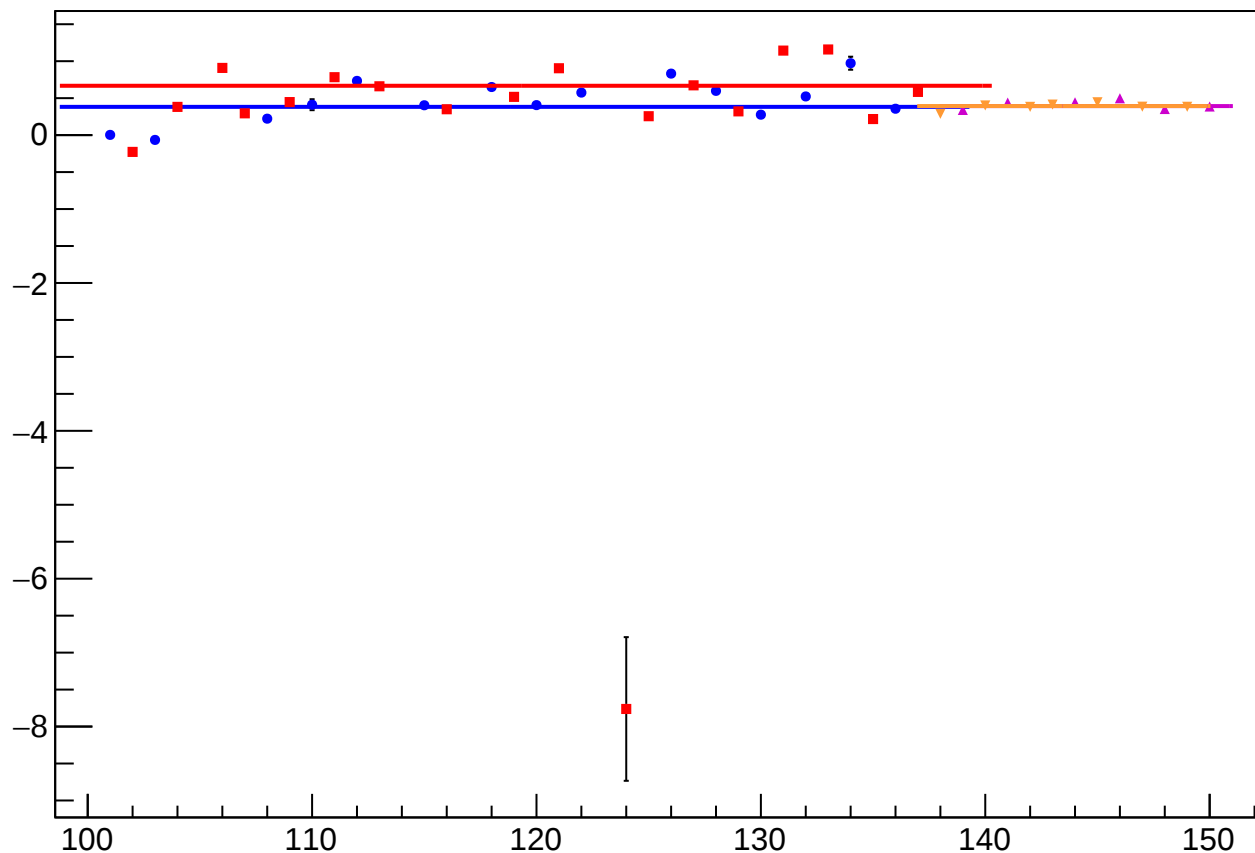
Right: -53.644 $\pm$ 0.013  $\chi^2$ /NDF: 971470.1/32

In: -56.069 $\pm$ 0.014  $\chi^2$ /NDF: 603576.2/20

Out: -52.556 $\pm$ 0.019  $\chi^2$ /NDF: 378200.4/24

All: -54.841 $\pm$ 0.011  $\chi^2$ /NDF: 1004242.2/45

# dit\_sam8\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}$ : 4595.8/14

Left Out:  $0.393 \pm 0.001$   $\chi^2/\text{NDF}$ : 486.4/6

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}$ : 3704.8/17

Left In:  $0.393 \pm 0.001$   $\chi^2/\text{NDF}$ : 1518.0/5

Left:  $0.393 \pm 0.001$   $\chi^2/\text{NDF}$ : 2004.5/12

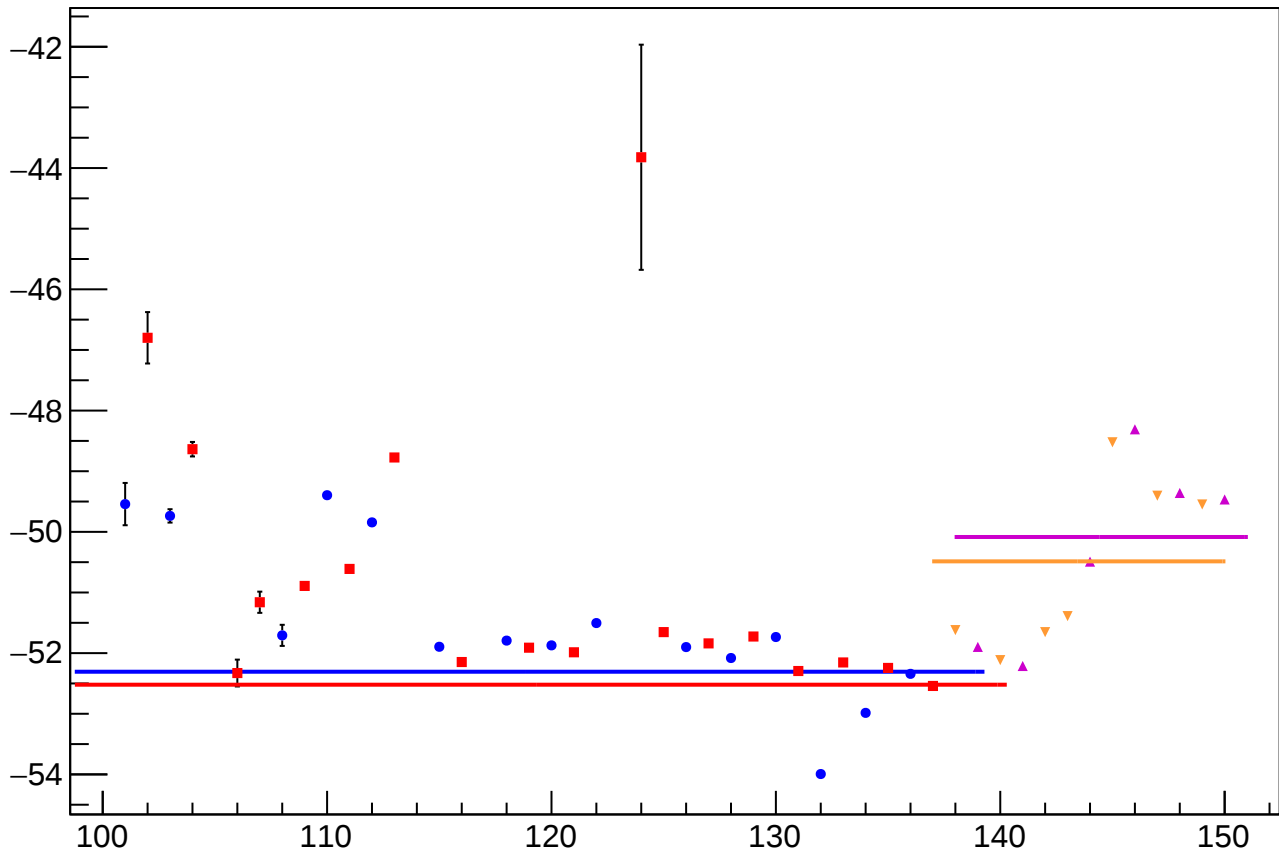
Right:  $0.413 \pm 0.002$   $\chi^2/\text{NDF}$ : 11721.4/32

In:  $0.390 \pm 0.001$   $\chi^2/\text{NDF}$ : 6146.9/20

Out:  $0.401 \pm 0.001$   $\chi^2/\text{NDF}$ : 7642.9/24

All:  $0.396 \pm 0.001$   $\chi^2/\text{NDF}$ : 13881.1/45

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In: -52.307+/-0.004  $\chi^2/\text{NDF}$ : 25427.4/14

Left Out: -50.486+/-0.003  $\chi^2/\text{NDF}$ : 103739.6/6

Right Out: -52.521+/-0.001  $\chi^2/\text{NDF}$ : 14961.7/17

Left In: -50.085+/-0.003  $\chi^2/\text{NDF}$ : 209559.1/5

Left: -50.236+/-0.002  $\chi^2/\text{NDF}$ : 322933.4/12

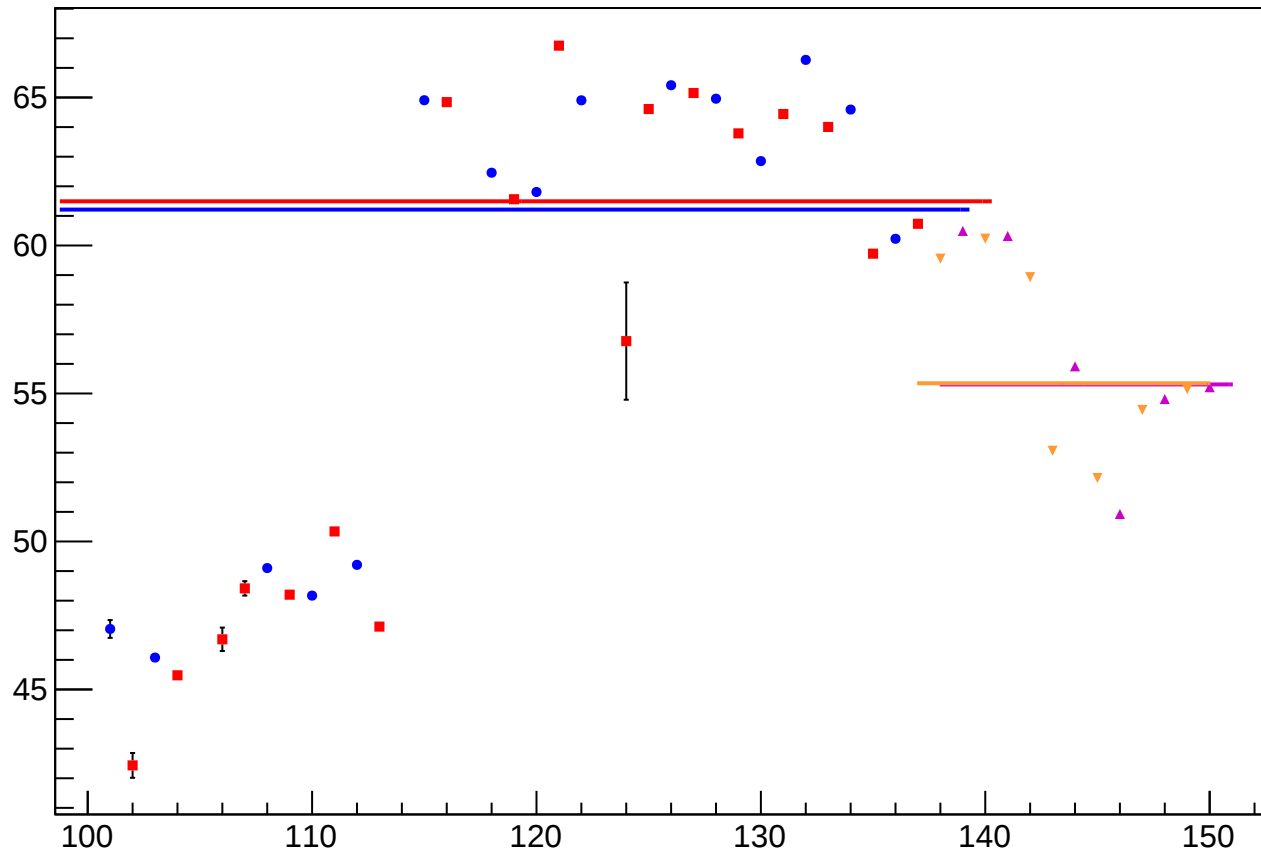
Right: -52.505+/-0.001  $\chi^2/\text{NDF}$ : 43203.2/32

In: -50.742+/-0.002  $\chi^2/\text{NDF}$ : 465849.2/20

Out: -52.308+/-0.001  $\chi^2/\text{NDF}$ : 473776.7/24

All: -52.000+/-0.001  $\chi^2/\text{NDF}$ : 1381961.1/45

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In: 61.213 $\pm$ 0.010  $\chi^2$ /NDF: 156624.5/14

Left Out: 55.345 $\pm$ 0.006  $\chi^2$ /NDF:188408.5/6

Right Out: 61.493 $\pm$ 0.007  $\chi^2$ /NDF: 243479.8/17

Left In: 55.306 $\pm$ 0.005  $\chi^2$ /NDF:49453.4/5

Left: 55.323 $\pm$ 0.004  $\chi^2$ /NDF: 237884.5/12

Right: 61.405 $\pm$ 0.006  $\chi^2$ /NDF: 400649.5/32

In: 56.657 $\pm$ 0.005  $\chi^2$ /NDF:479147.9/20

Out: 58.178 $\pm$ 0.005  $\chi^2$ /NDF:883562.0/24

All: 57.448 $\pm$ 0.003  $\chi^2$ /NDF: 1416094.9/45

# 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

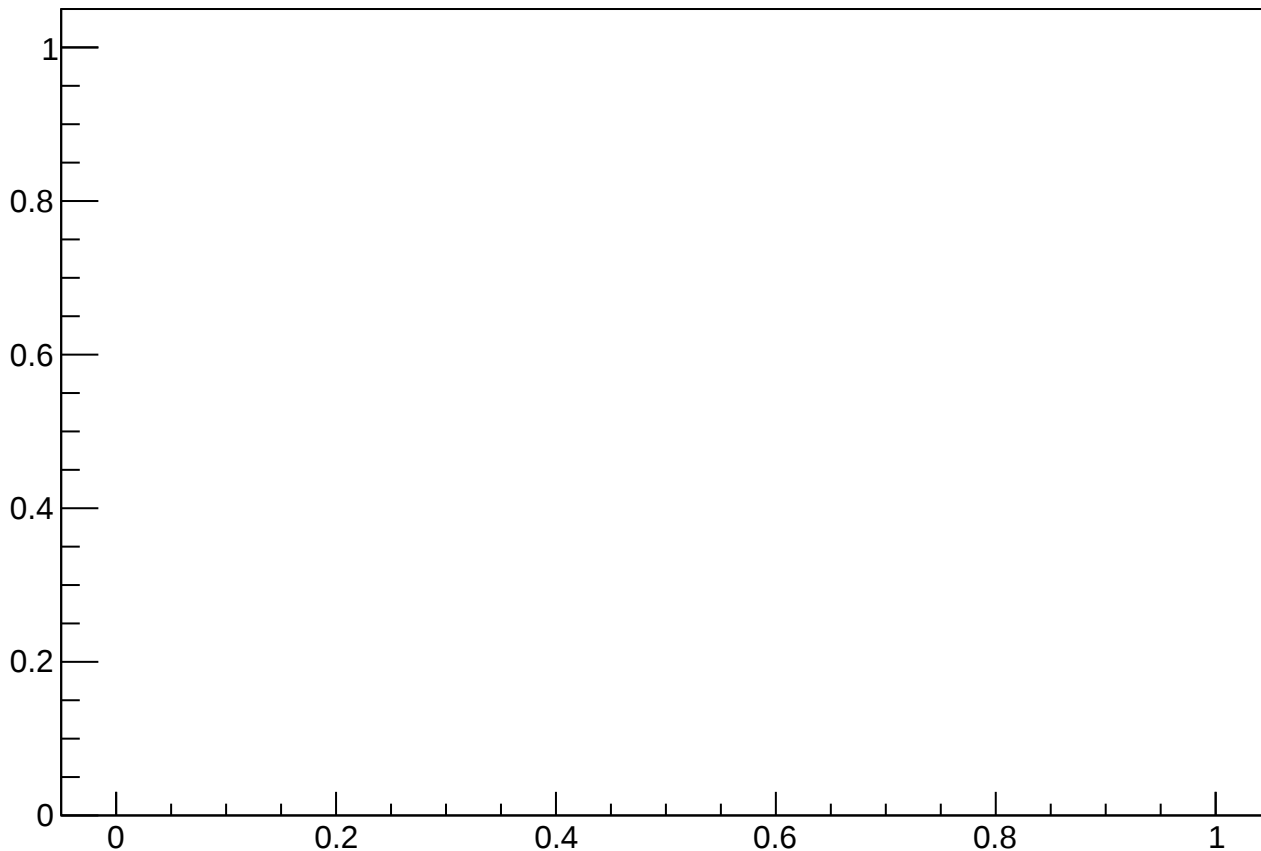
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

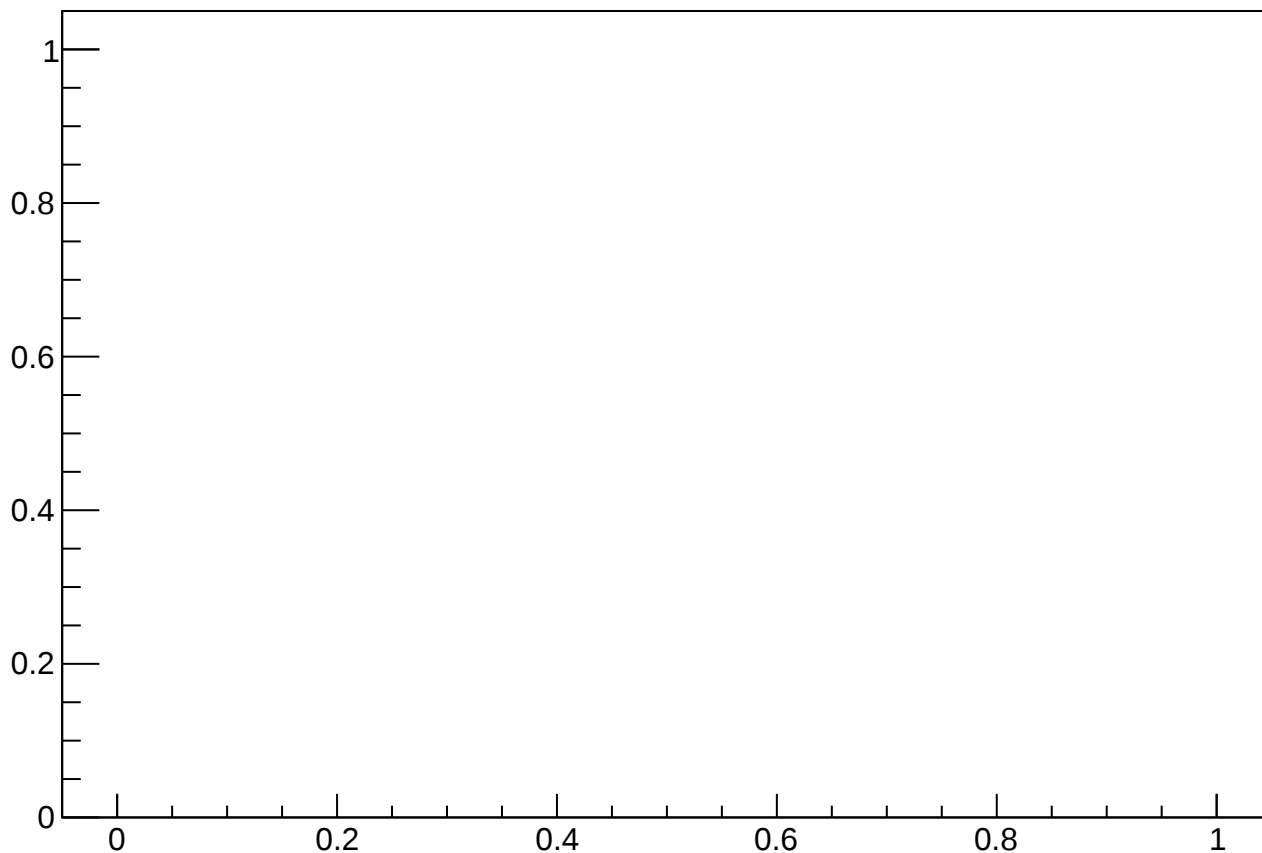
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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

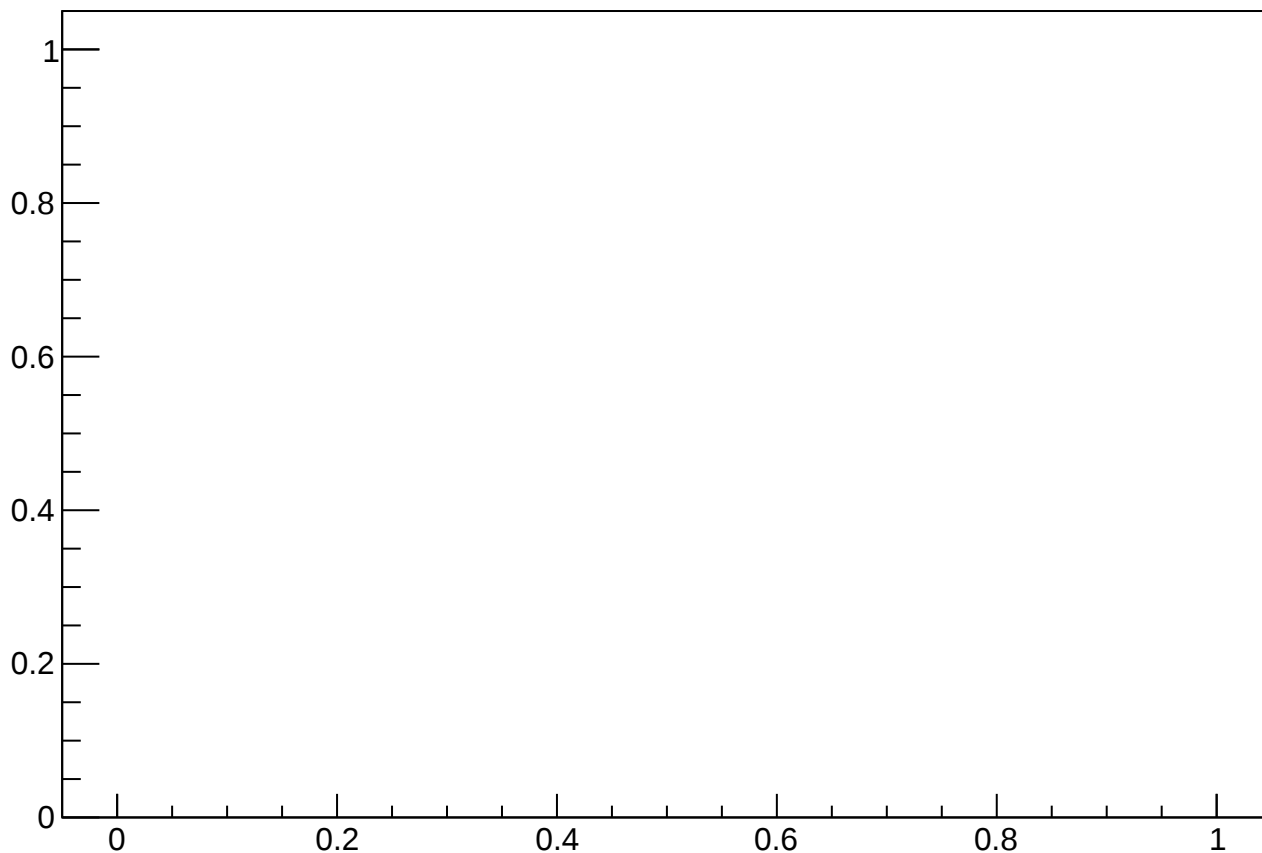
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

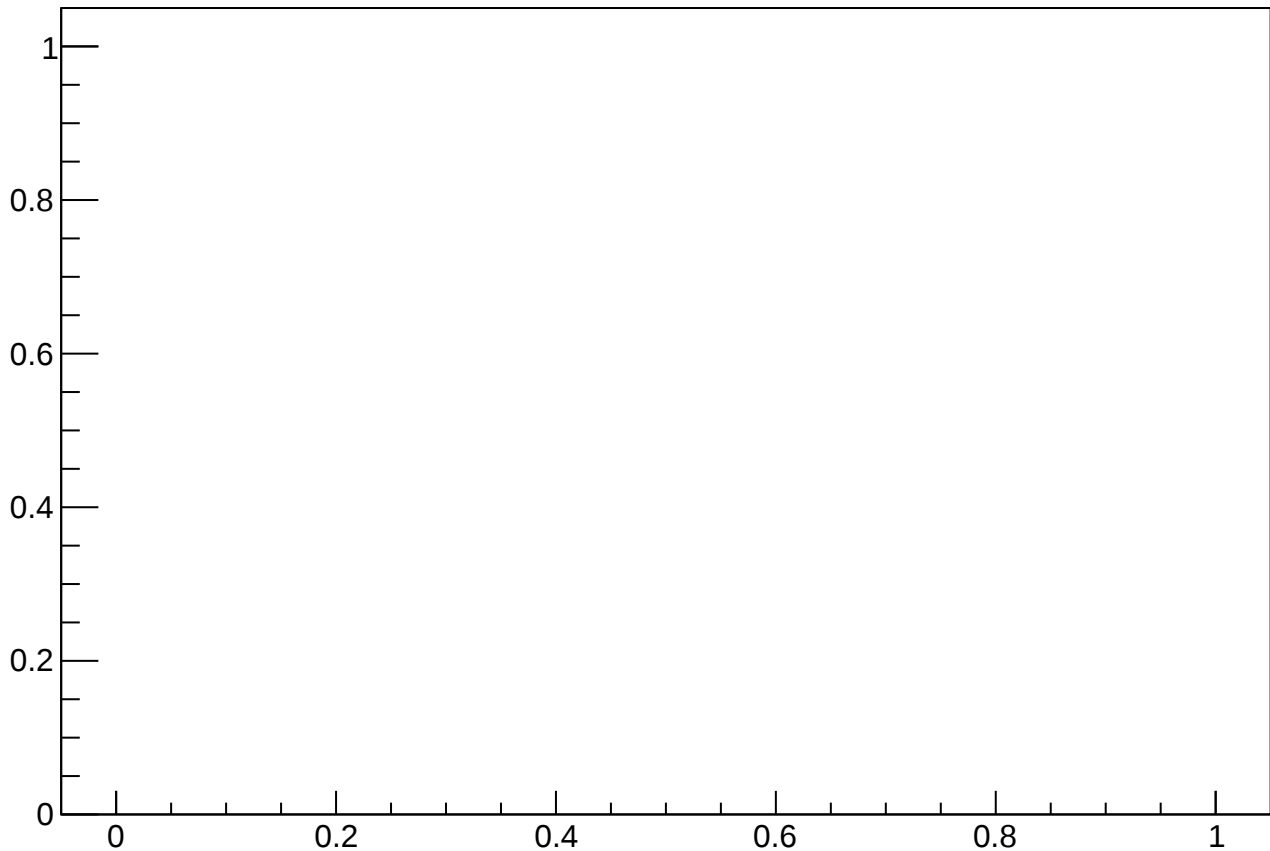
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

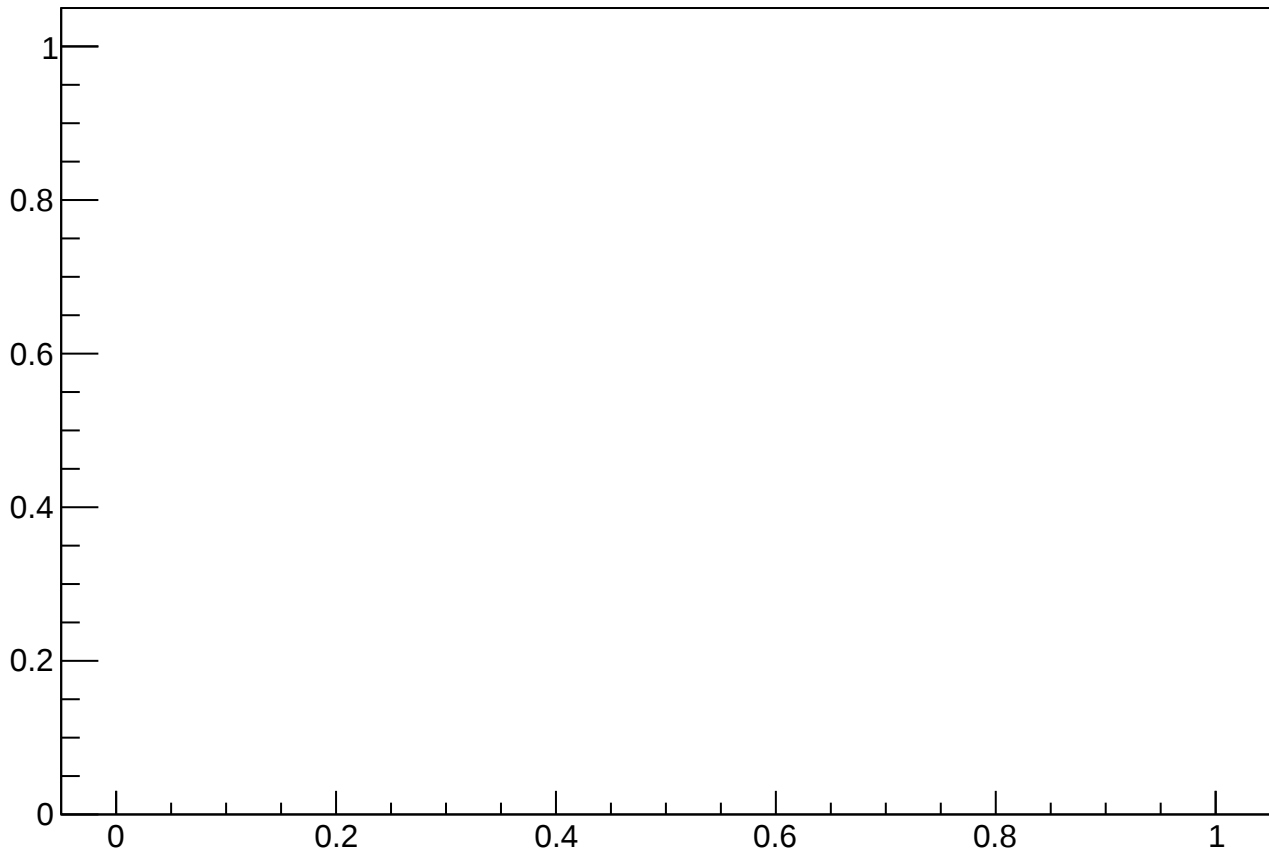
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2$ /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\_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\_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

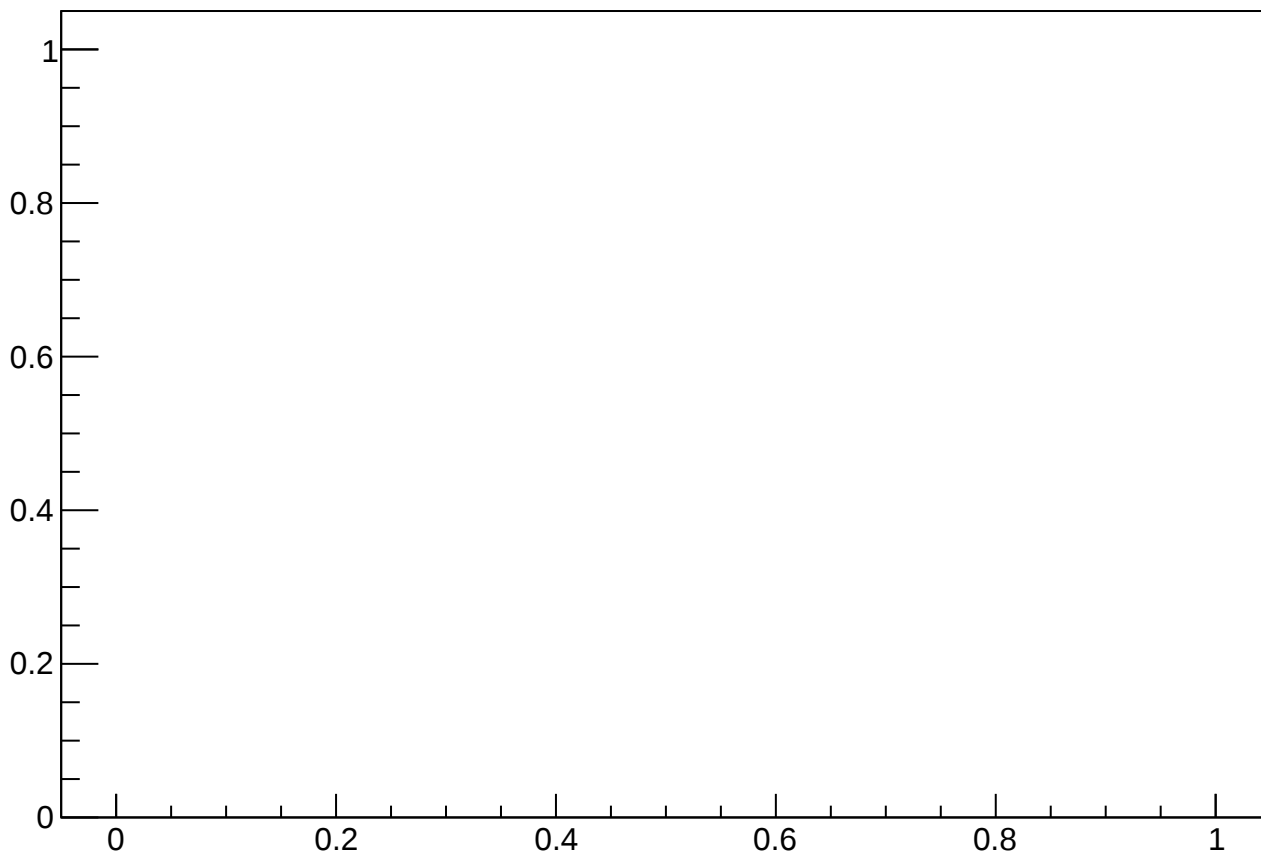
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

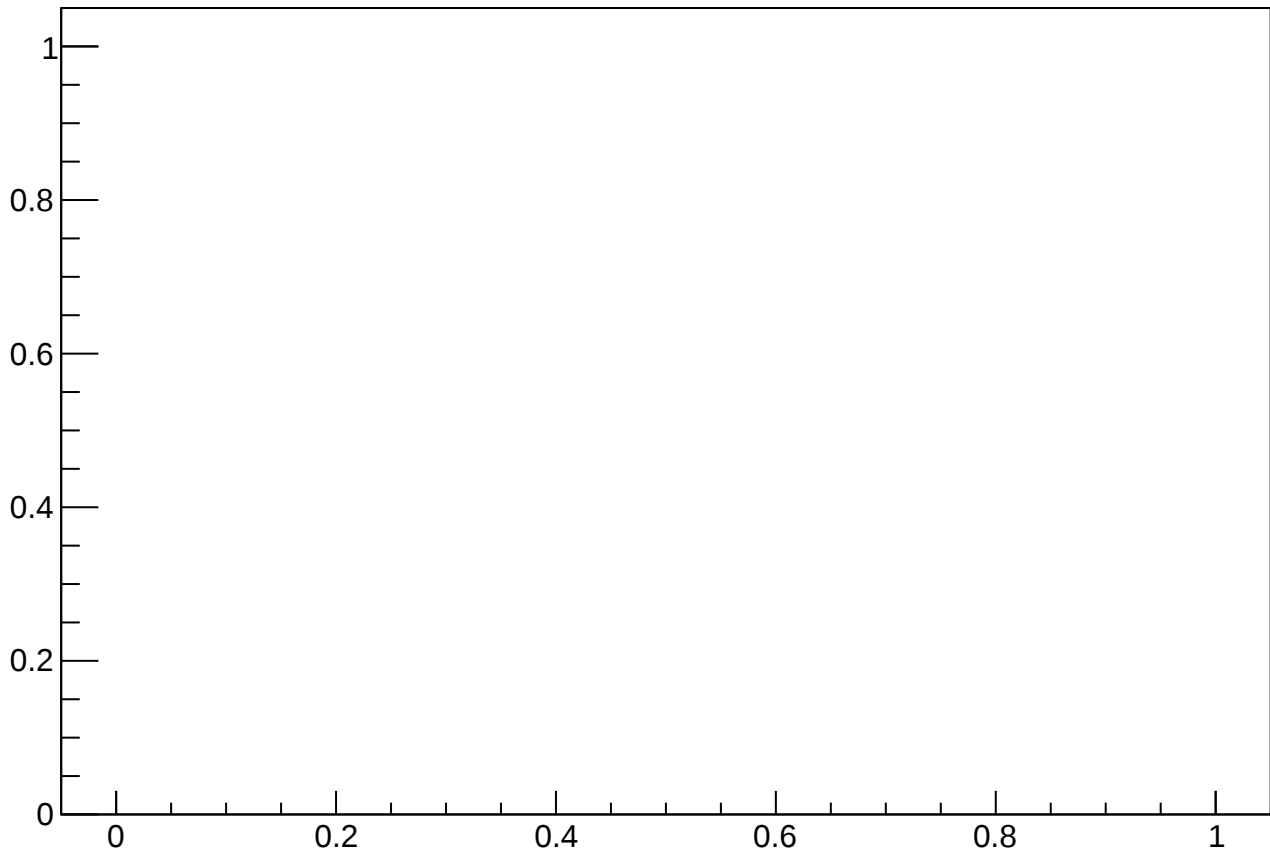
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

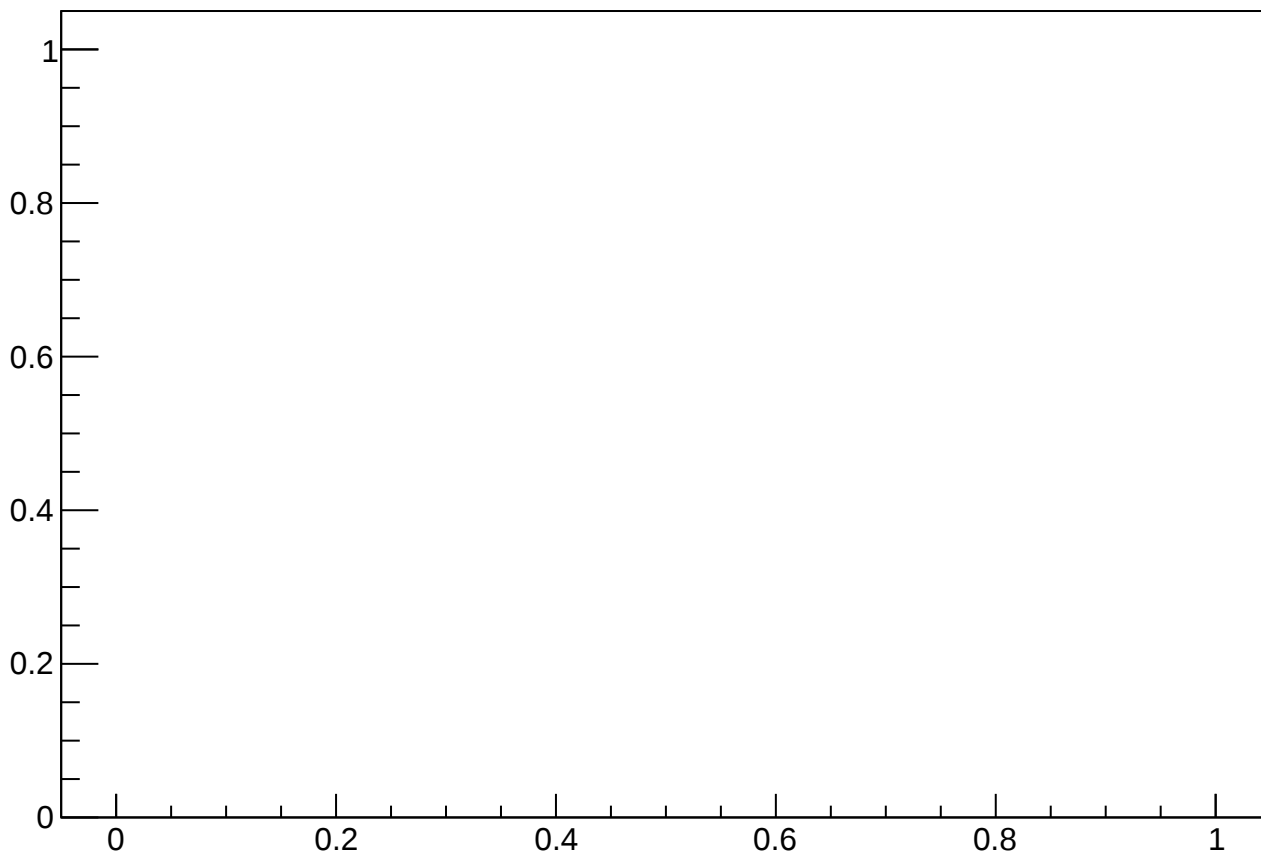
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_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

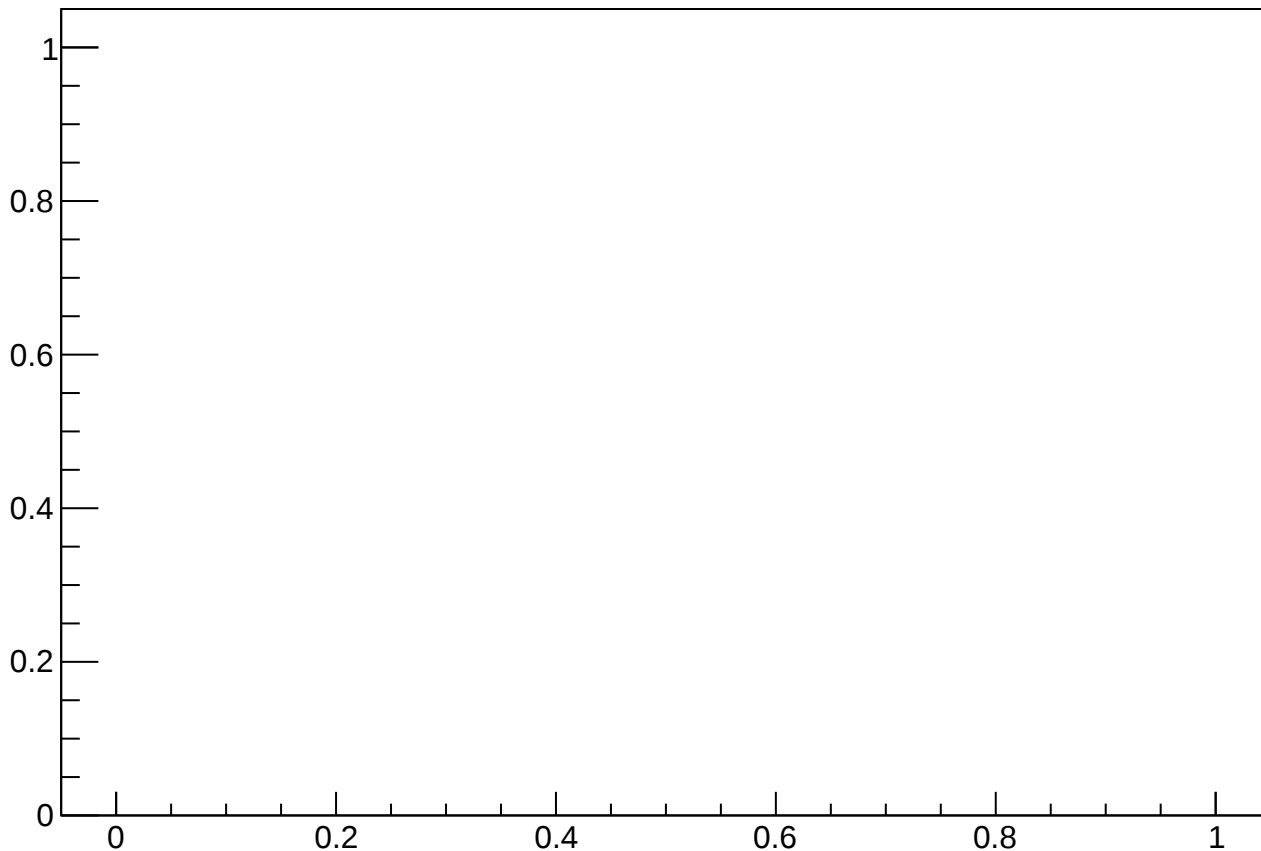
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

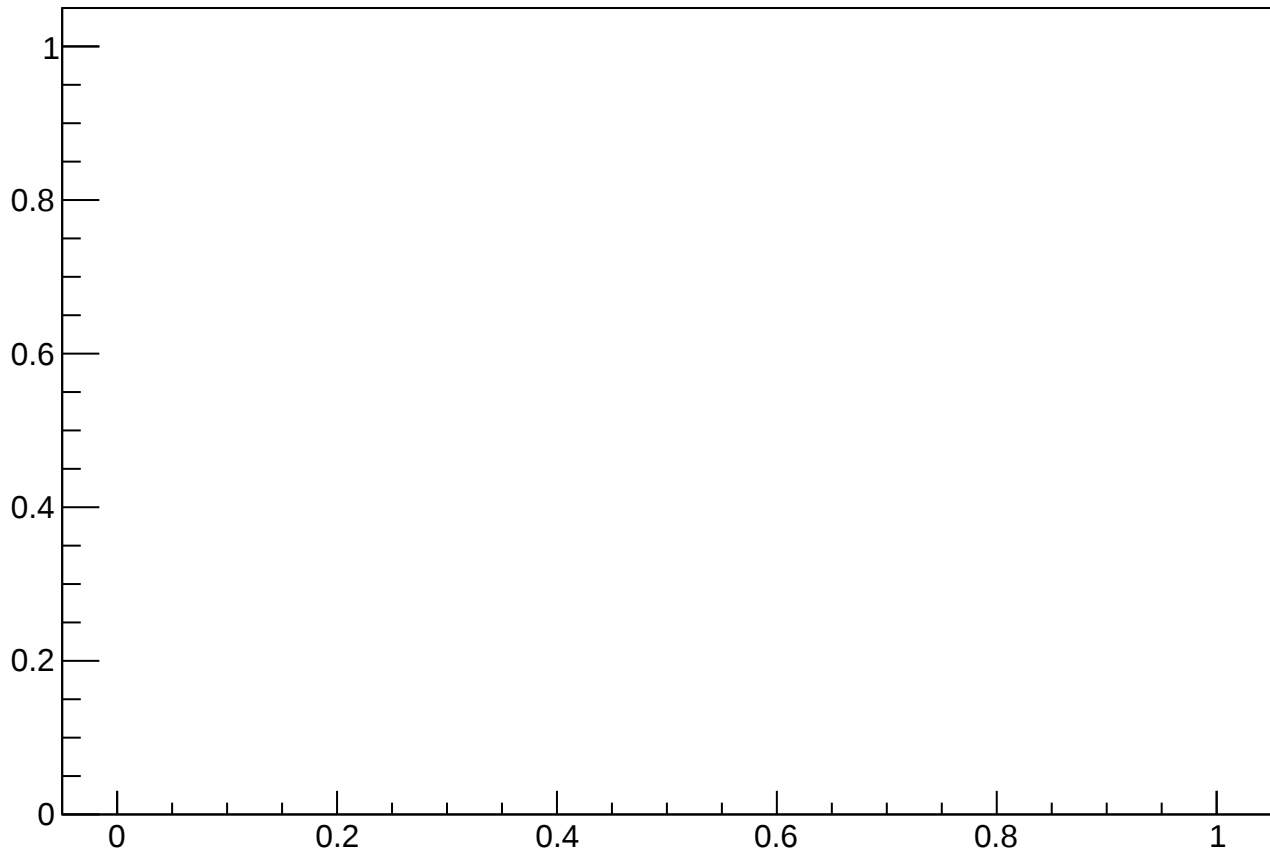
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

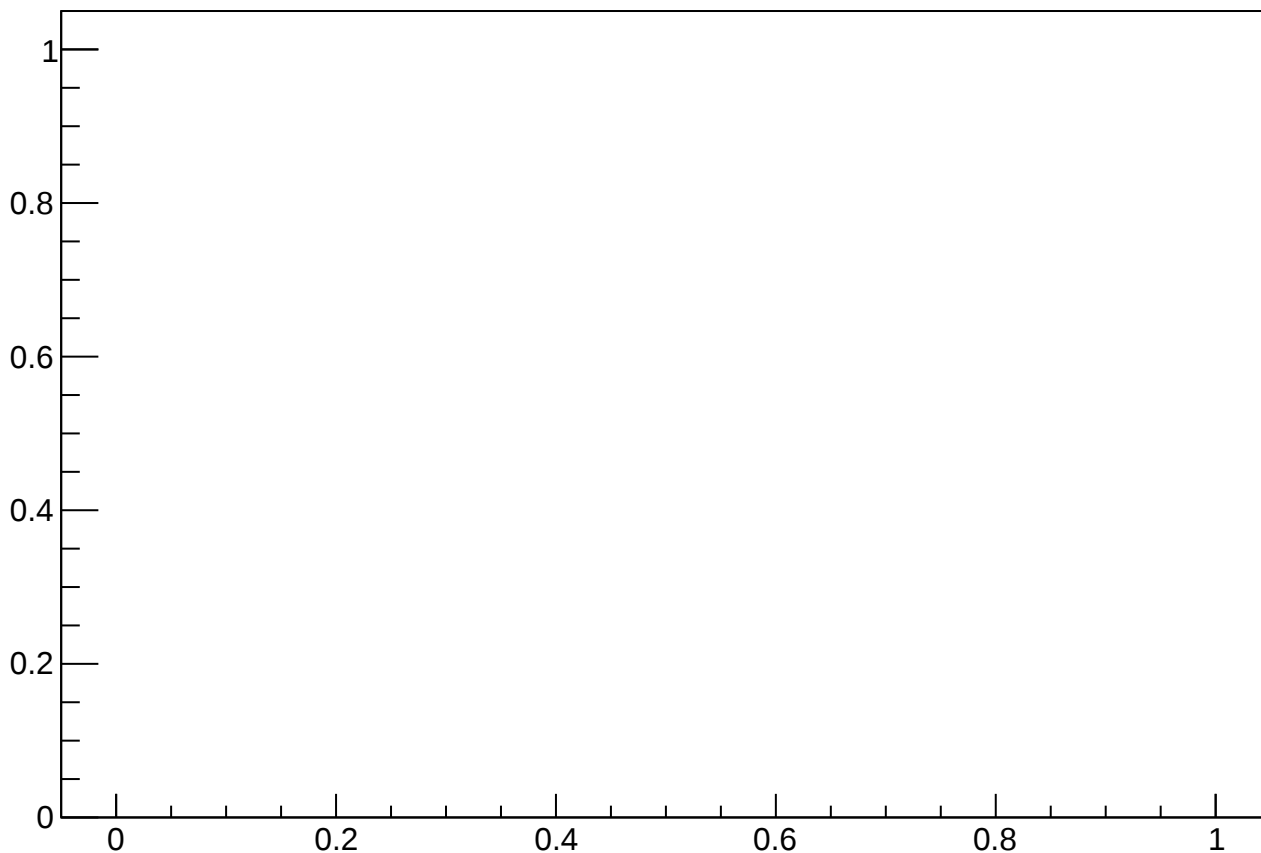
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

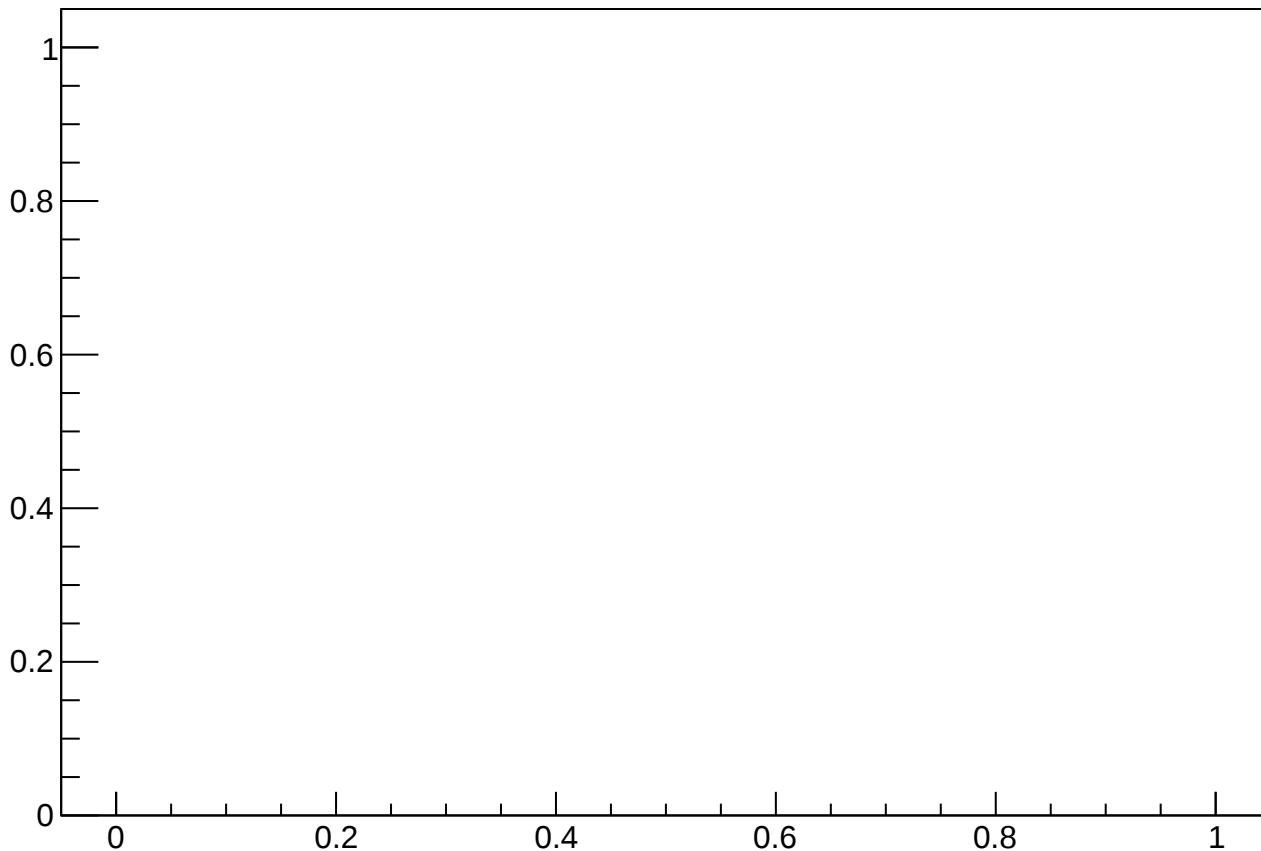
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

Out: 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

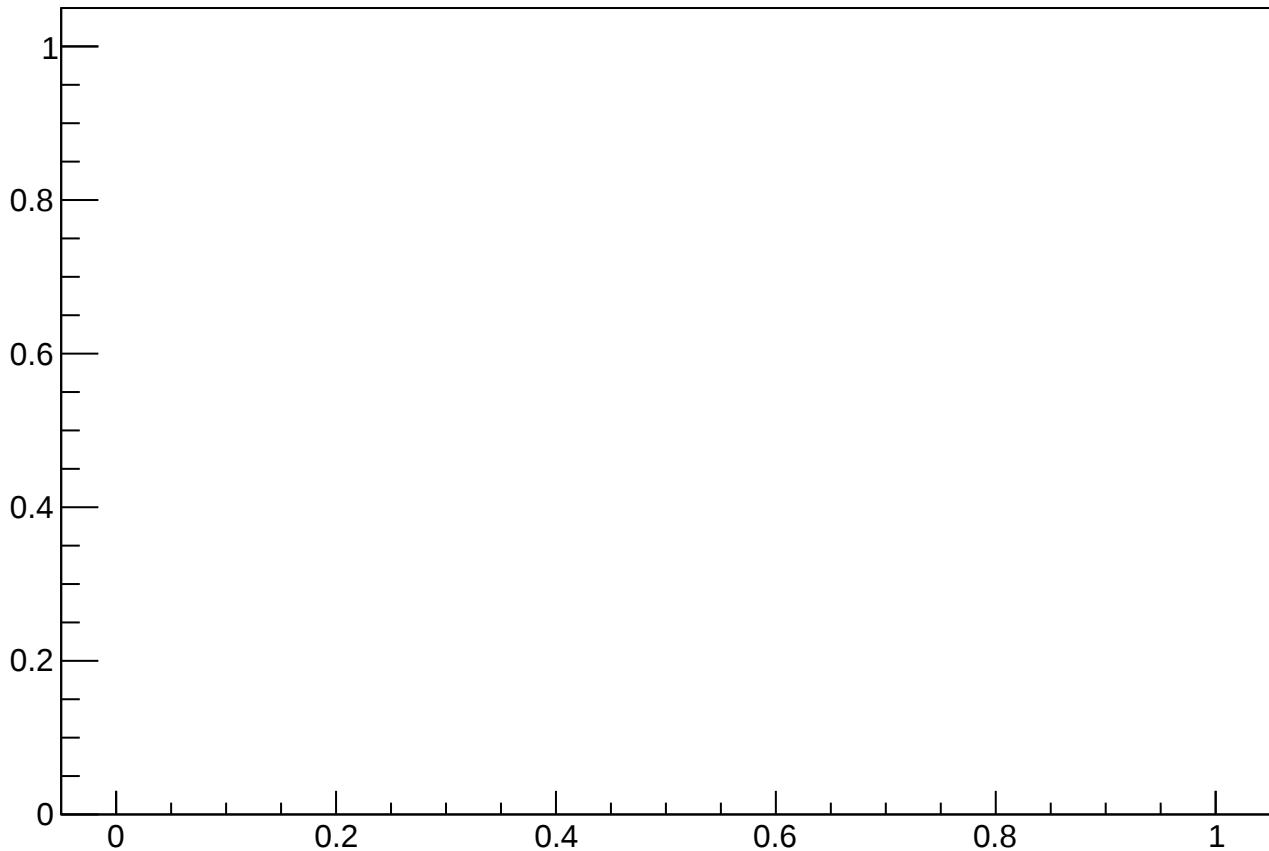
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

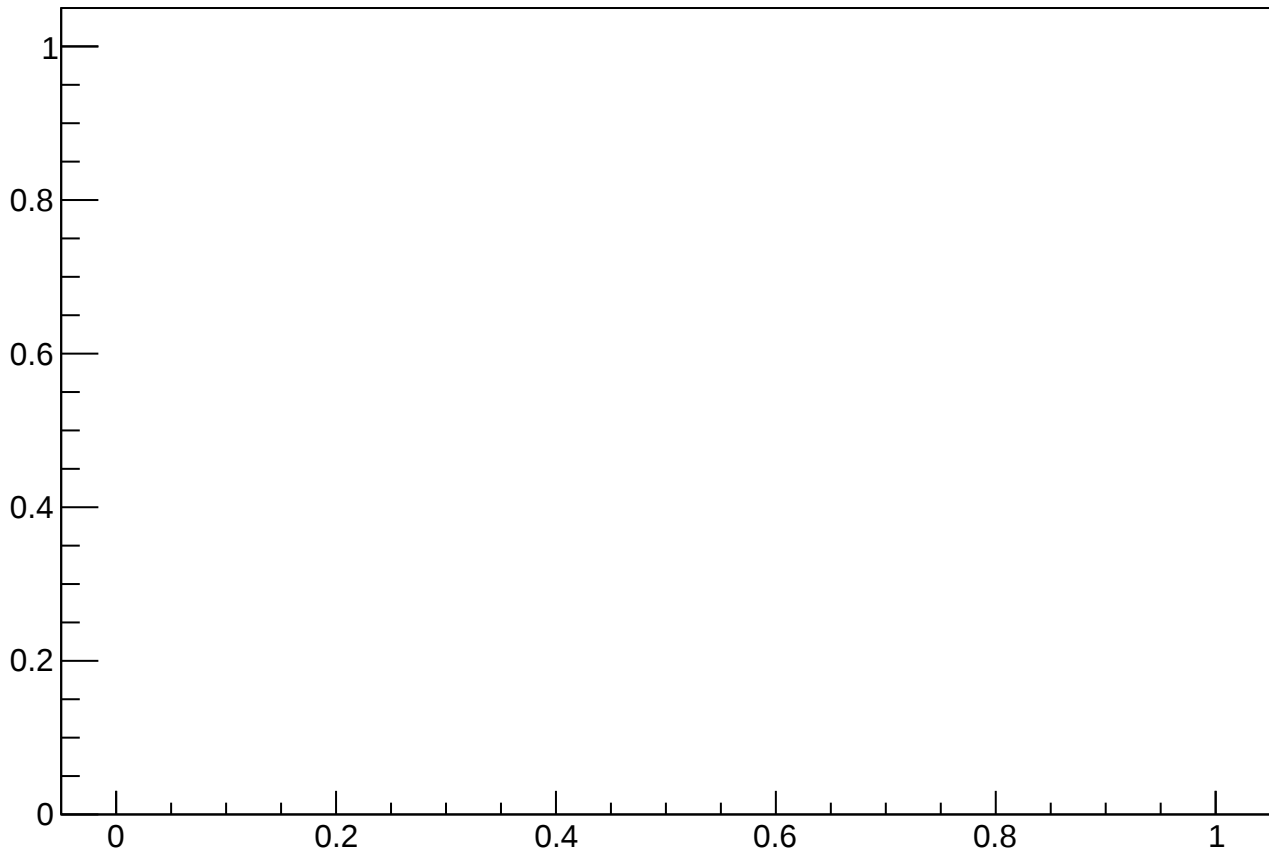
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

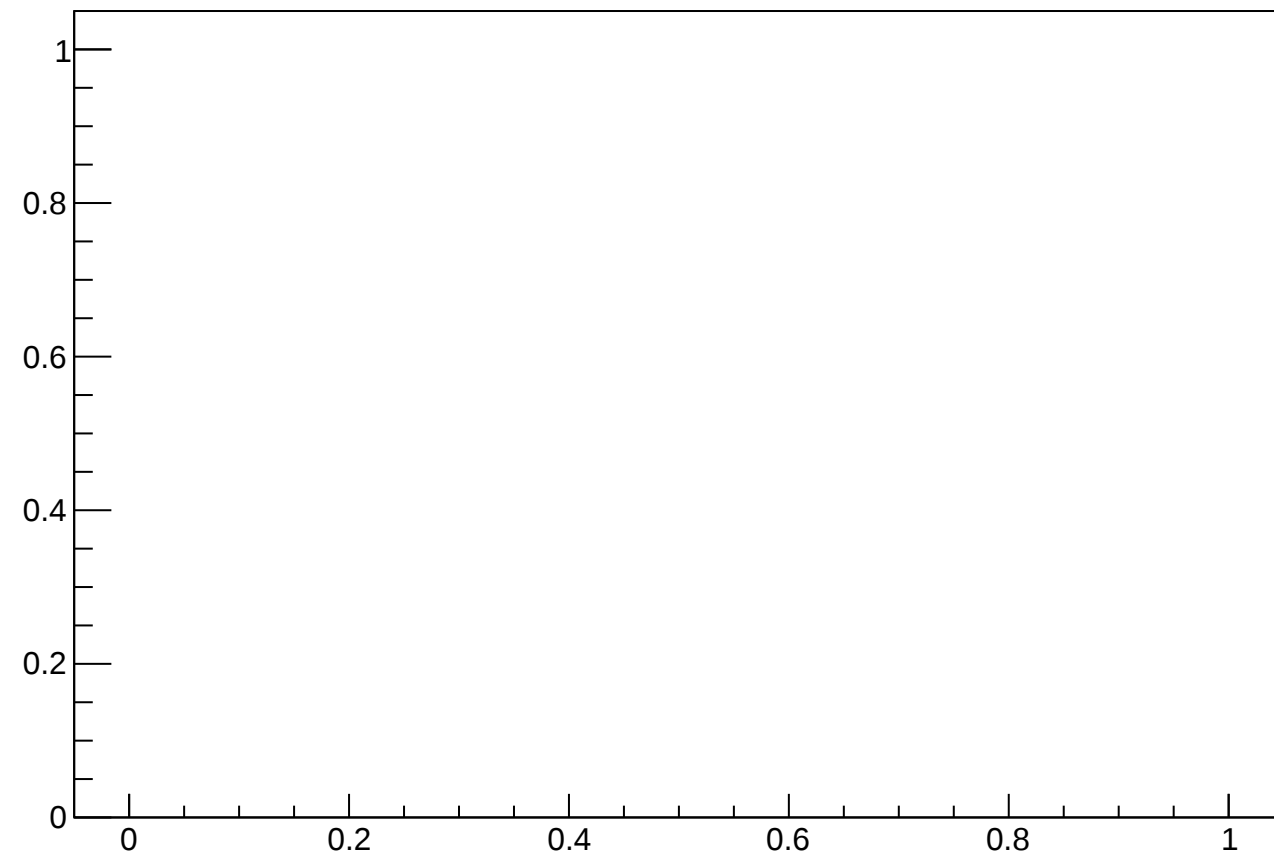
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_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

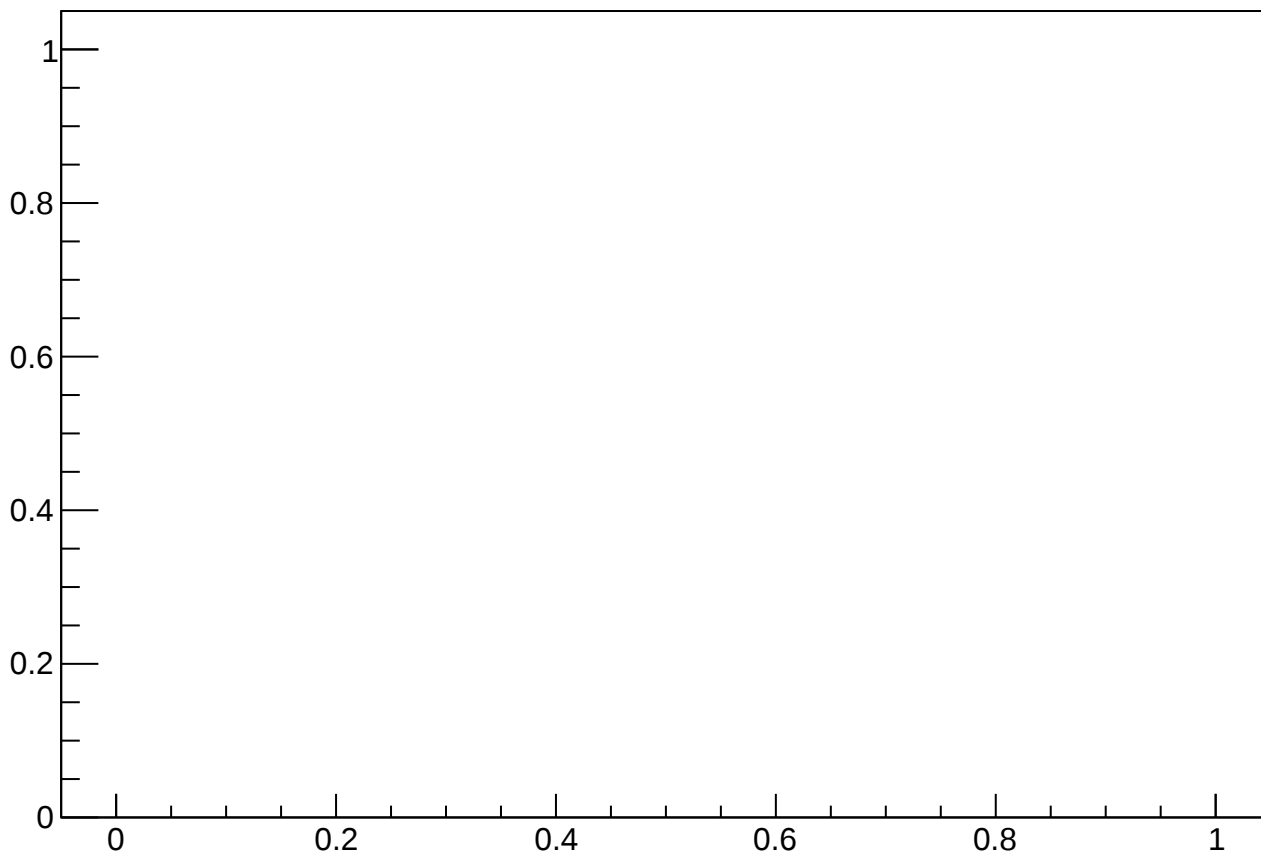
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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\_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

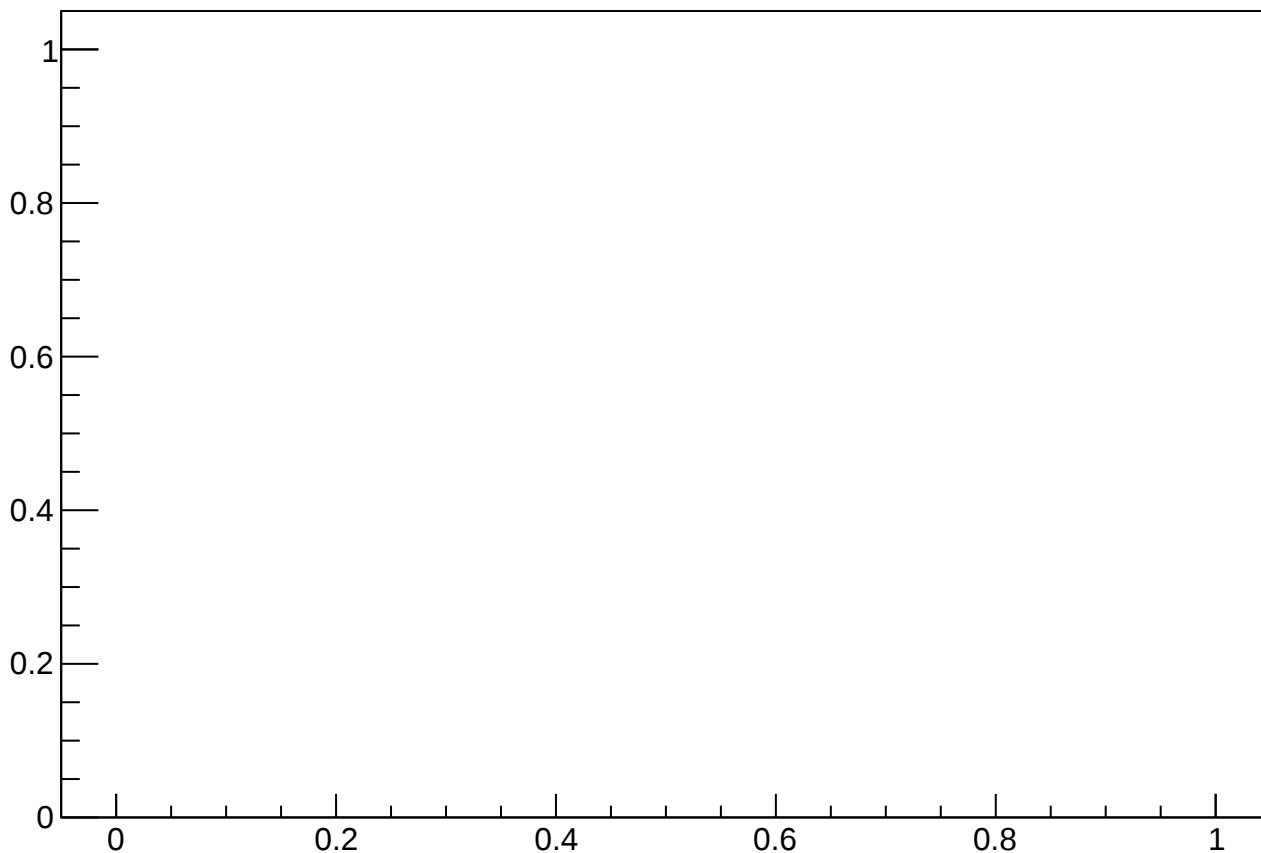
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

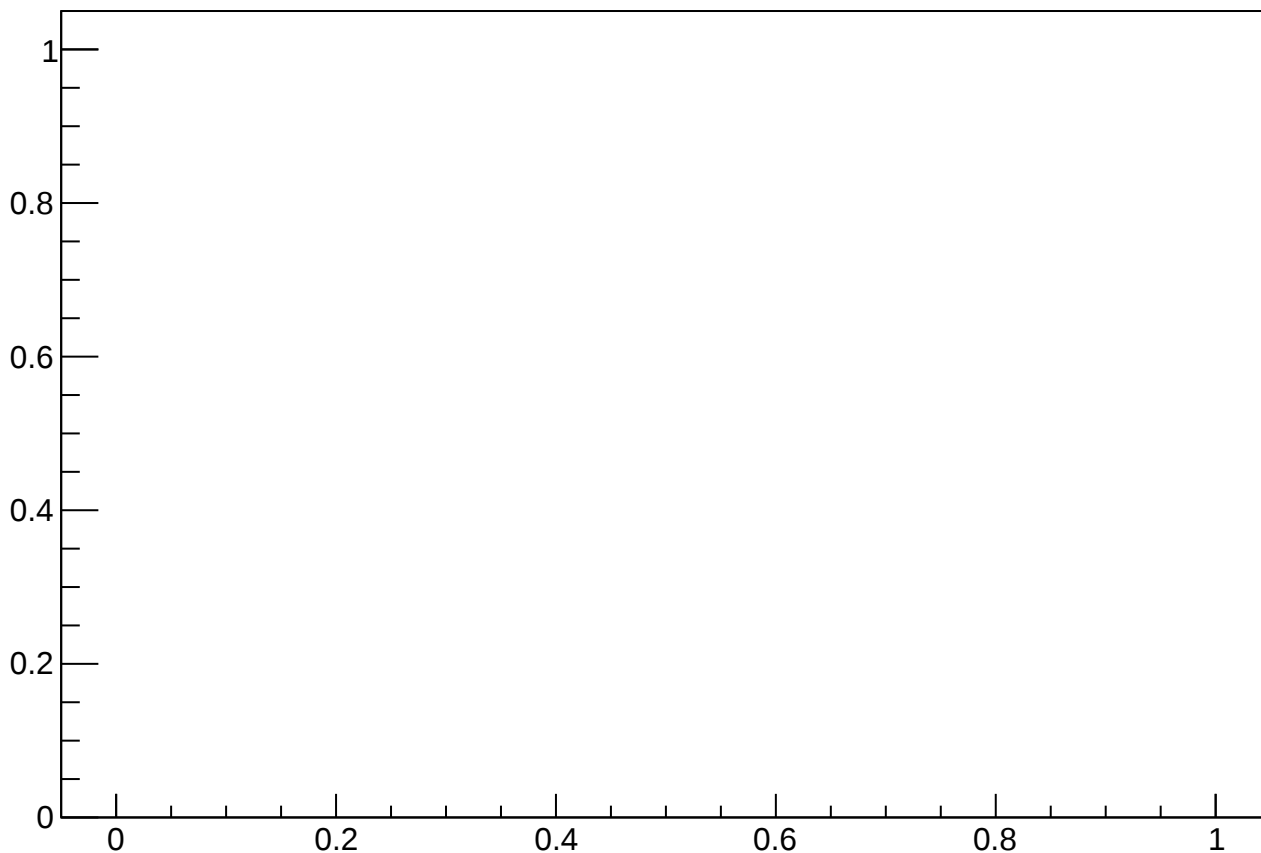
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

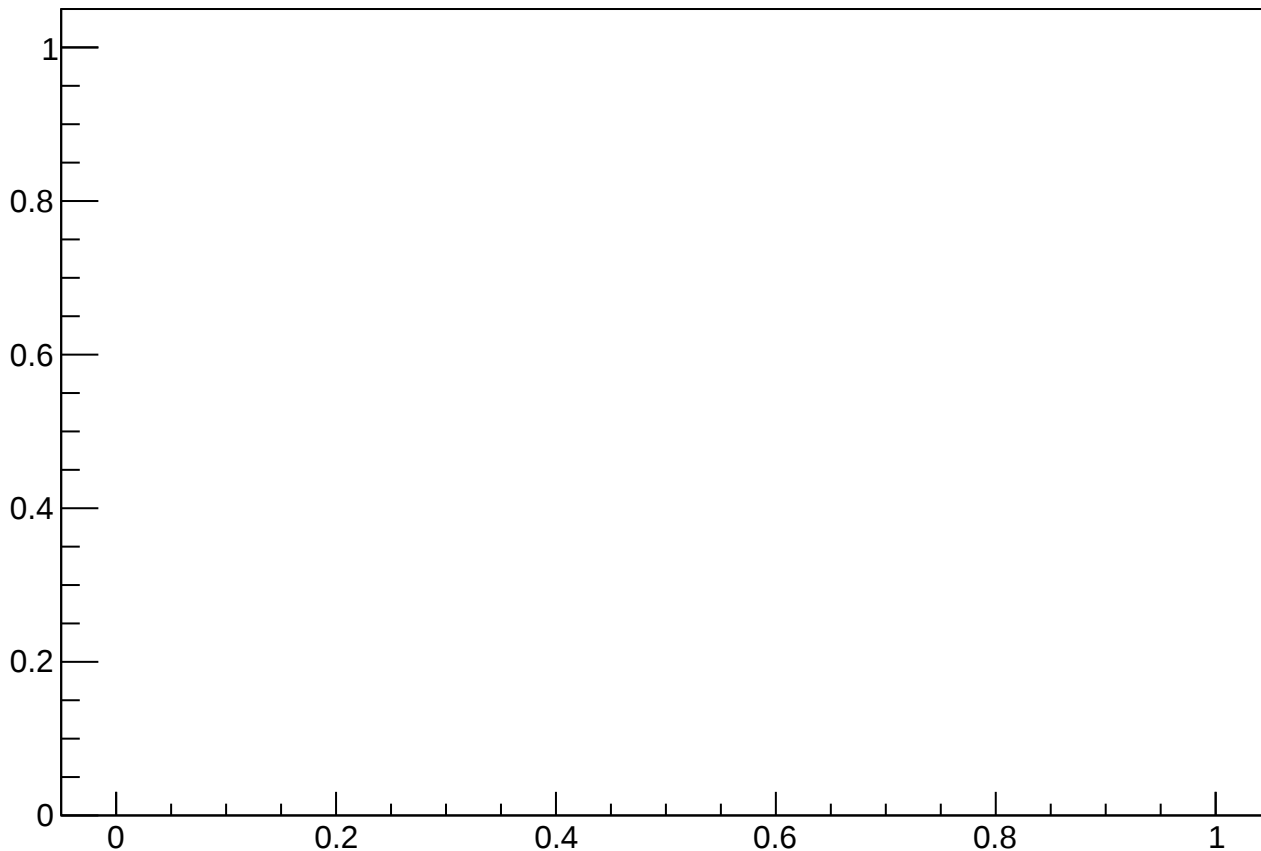
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In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 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

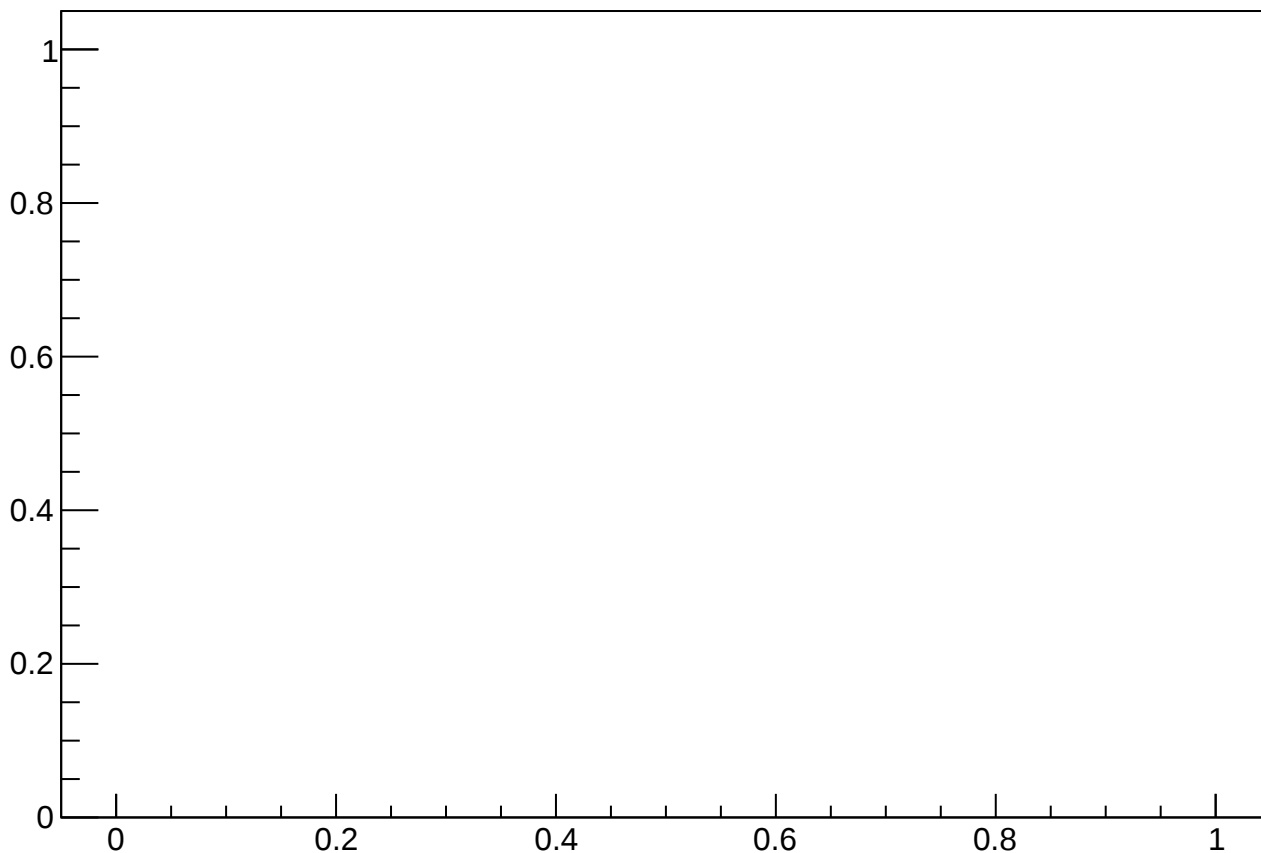
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

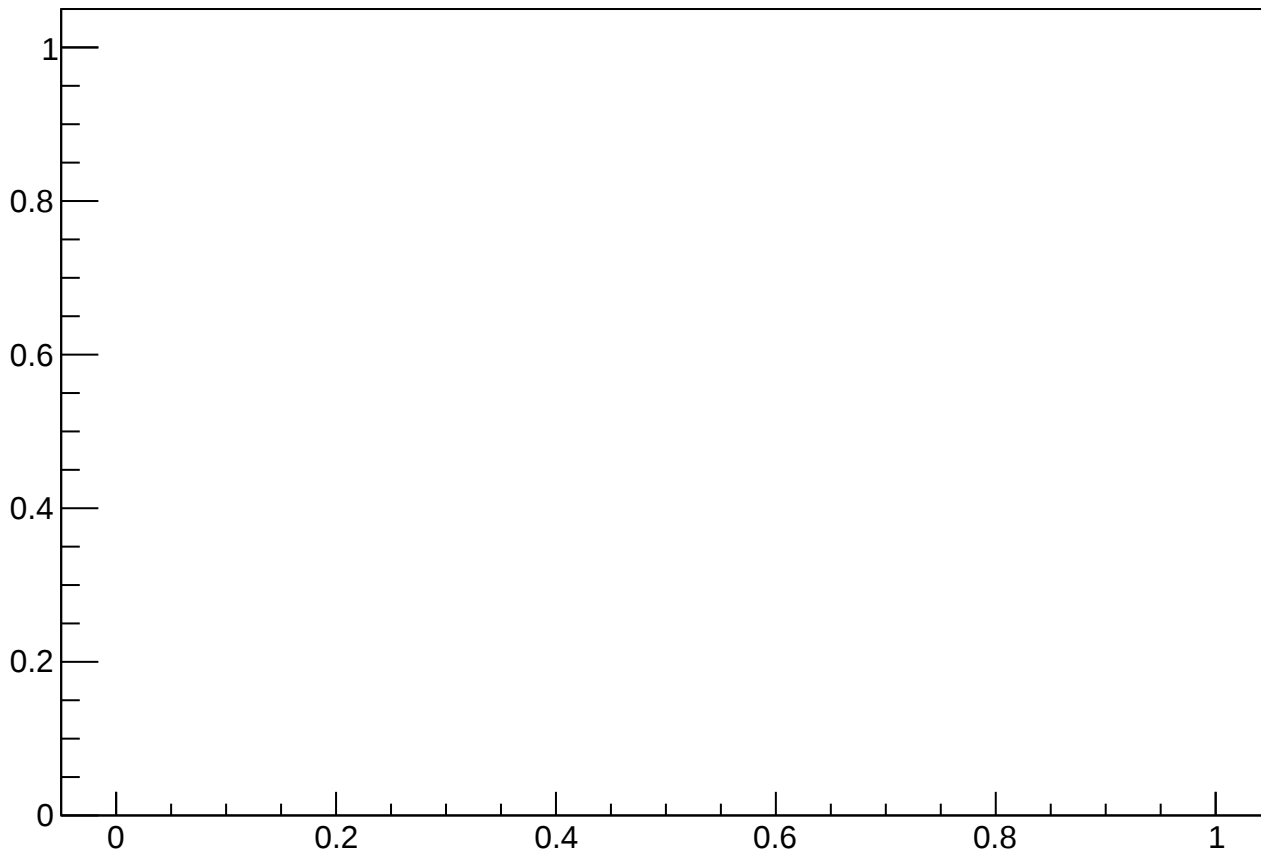
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

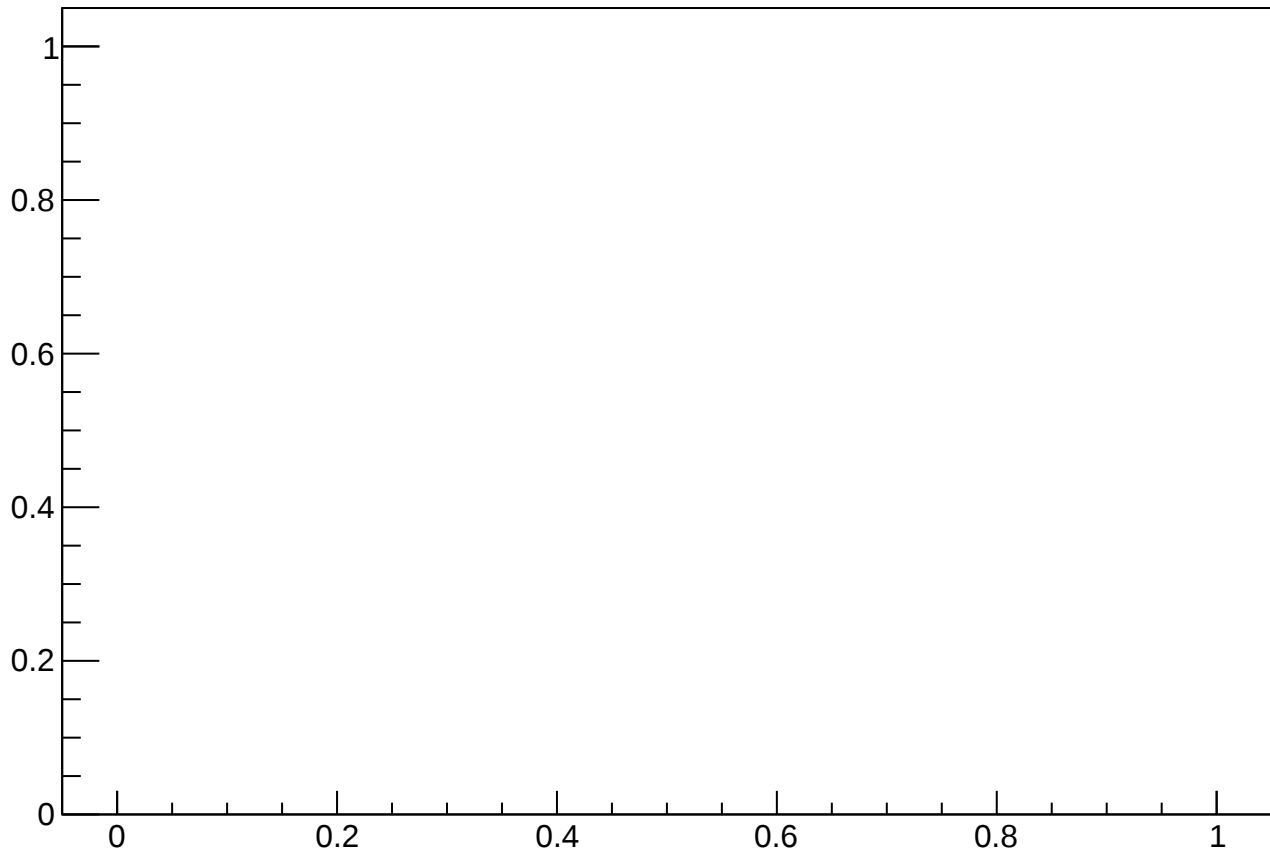
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

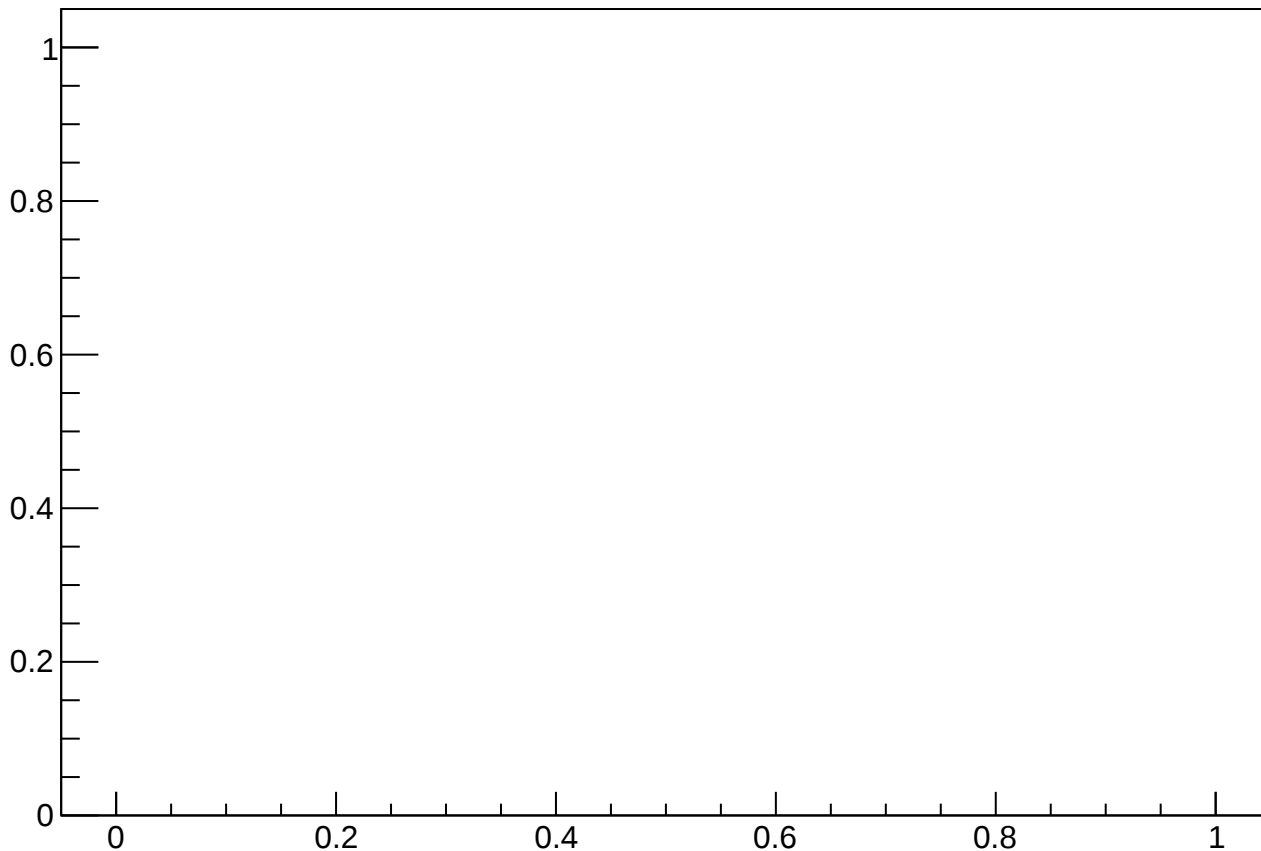
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

Out: 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

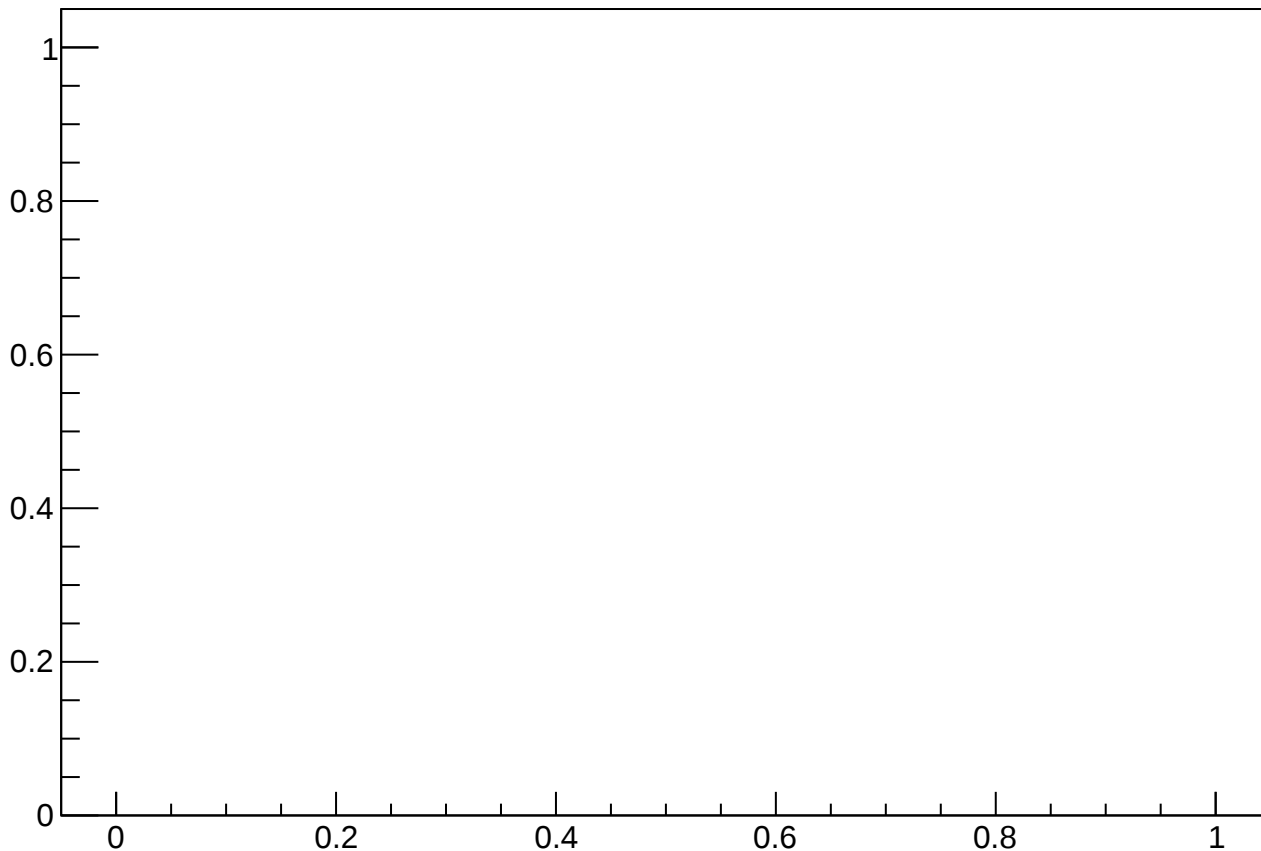
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

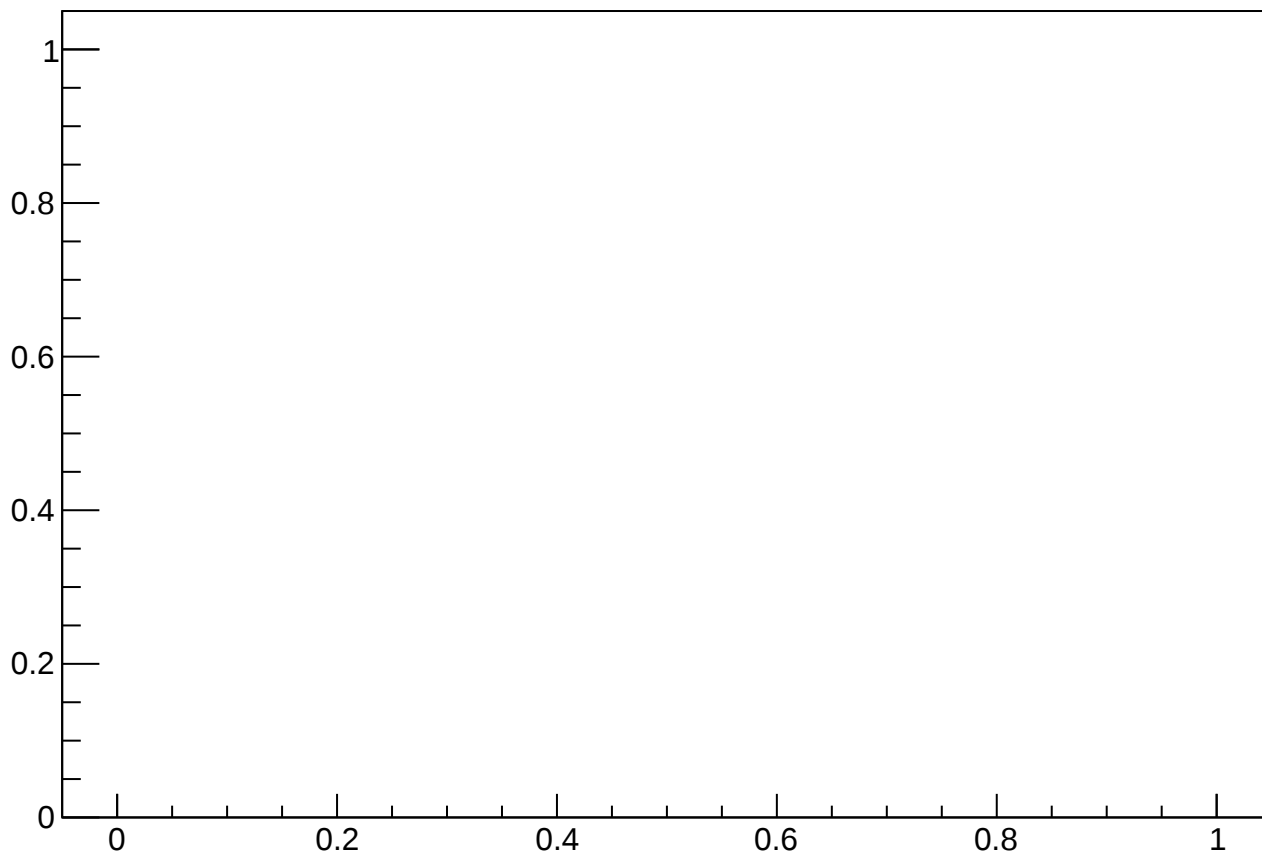
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In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_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     $\chi^2$ /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\_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

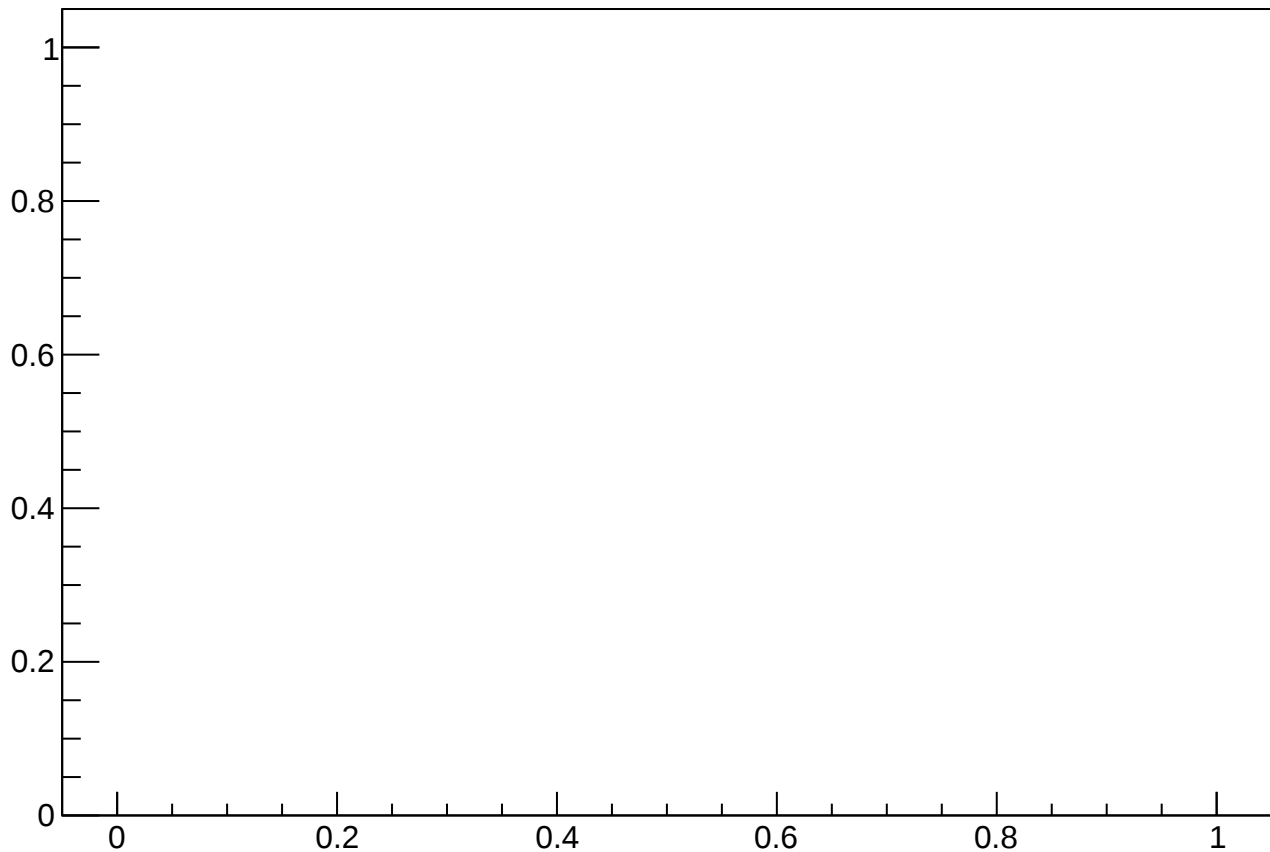
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

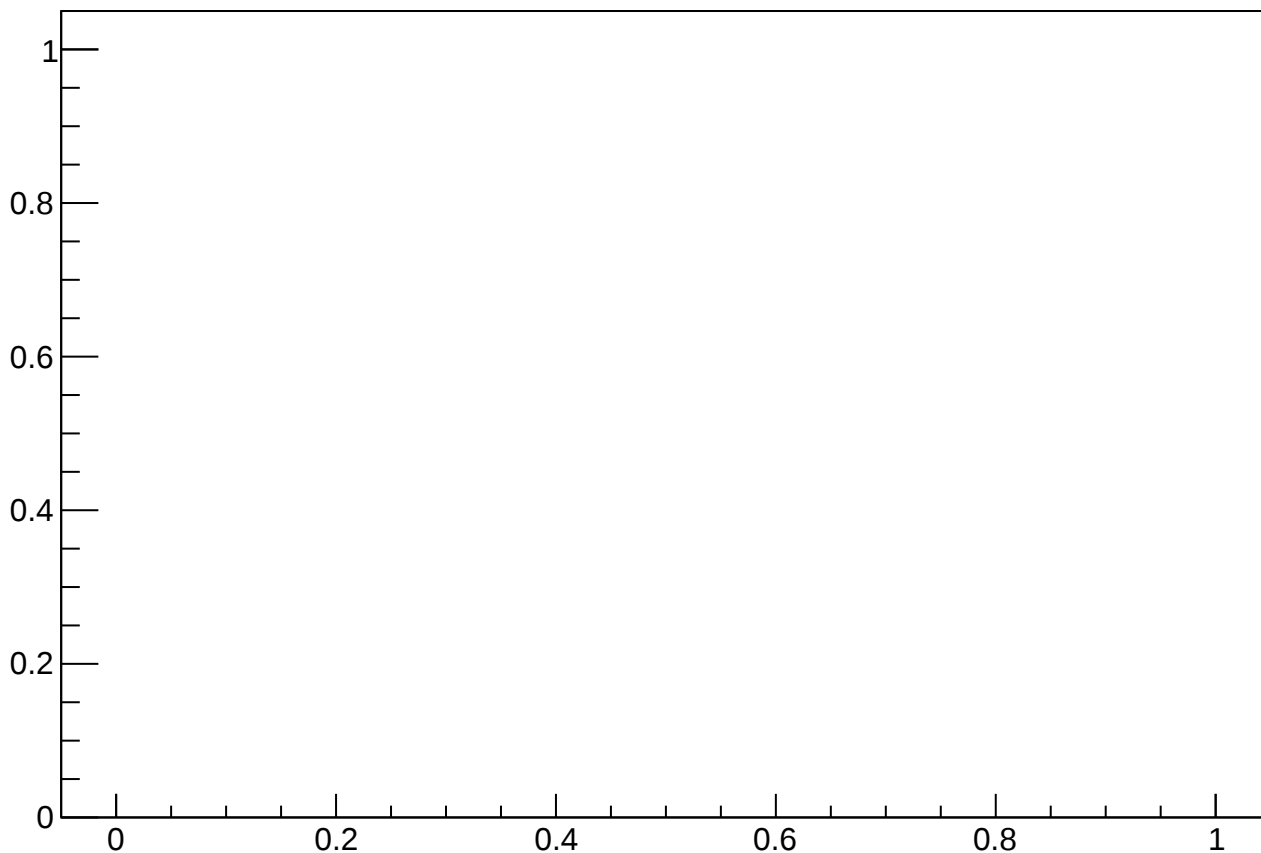
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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 $\pm$ 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\_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

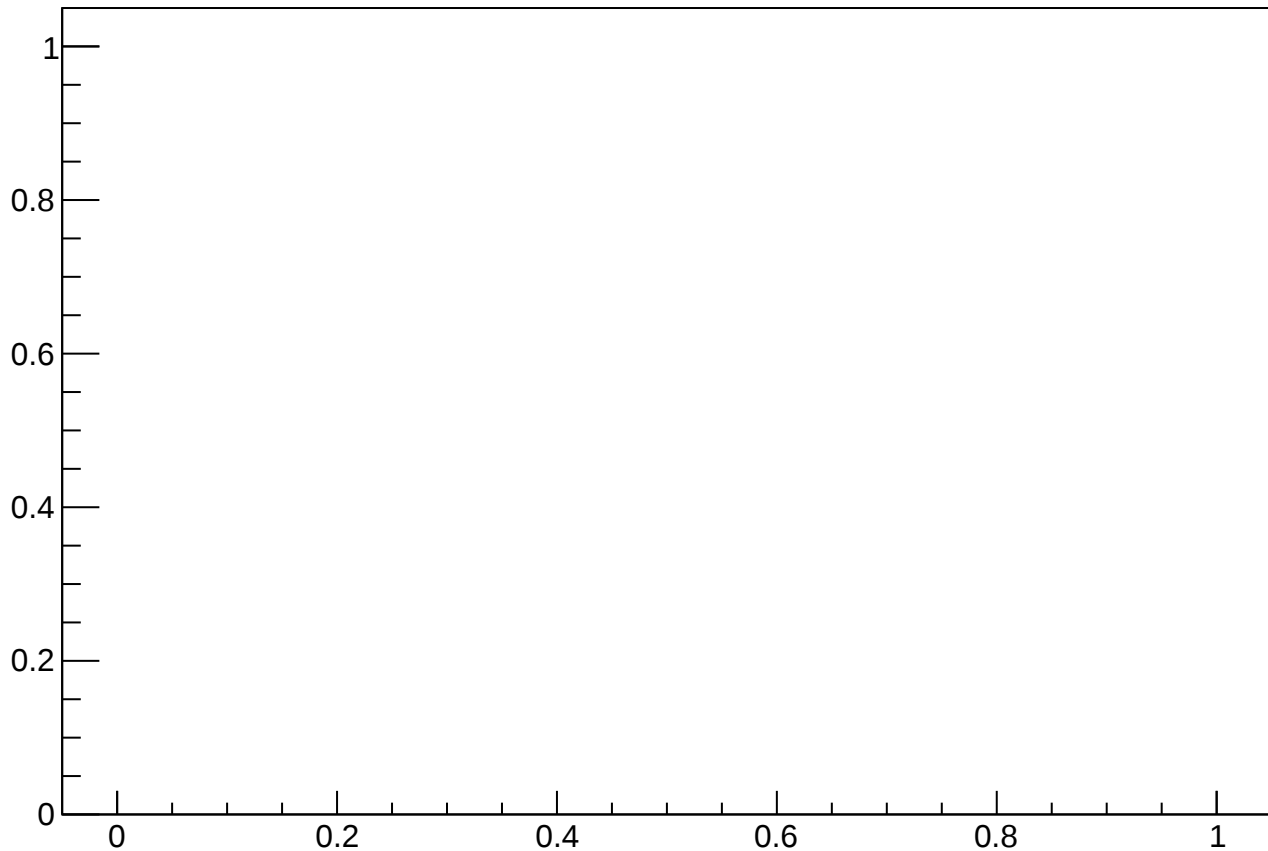
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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 $\pm$ 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\_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

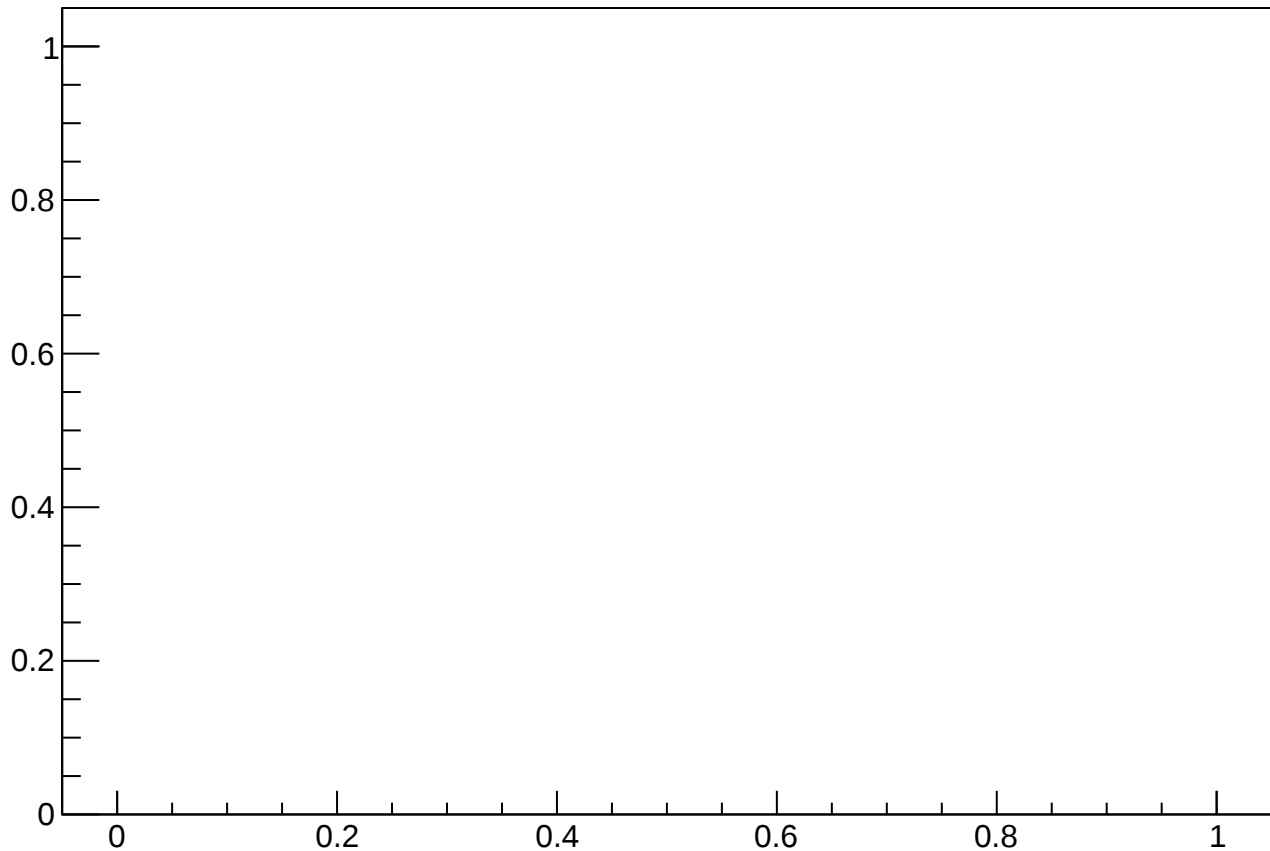
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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     $\chi^2$ /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\_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

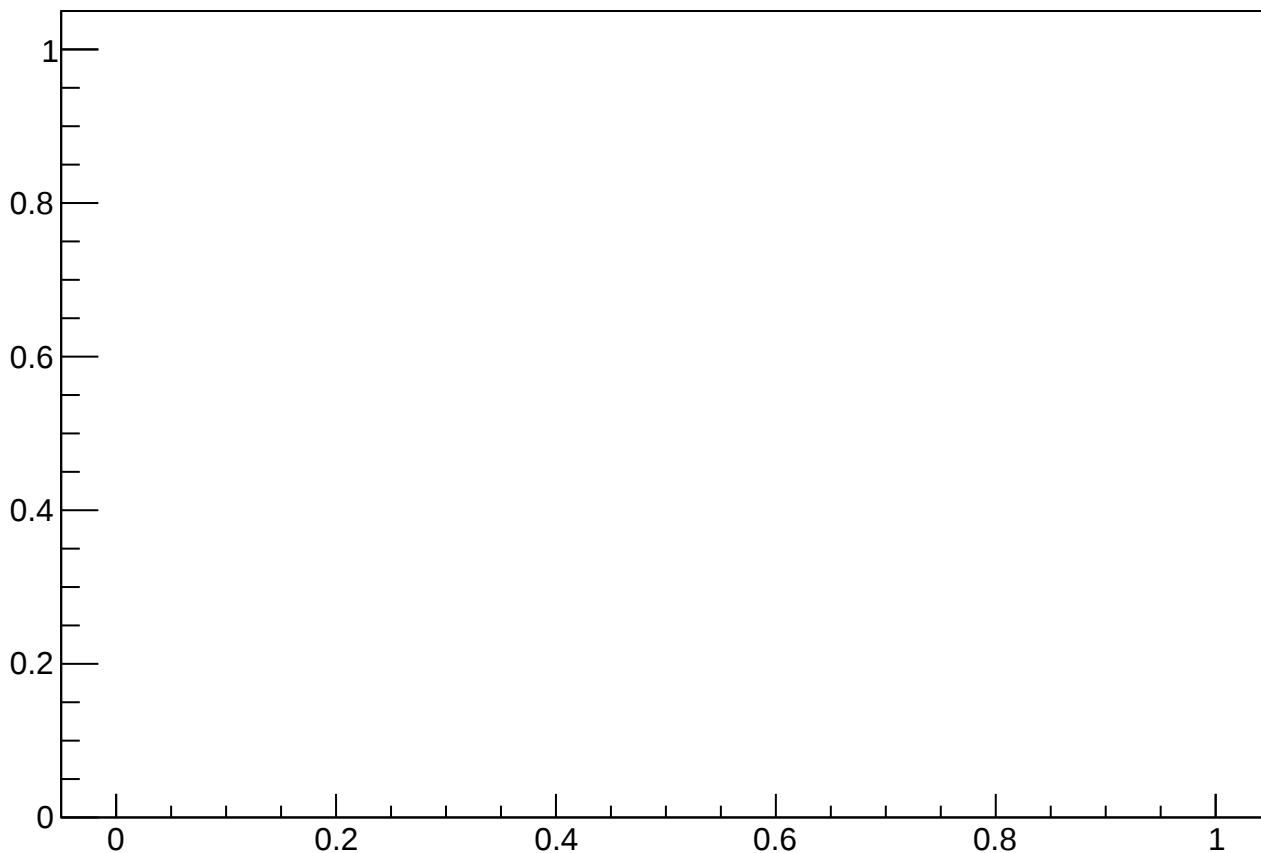
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

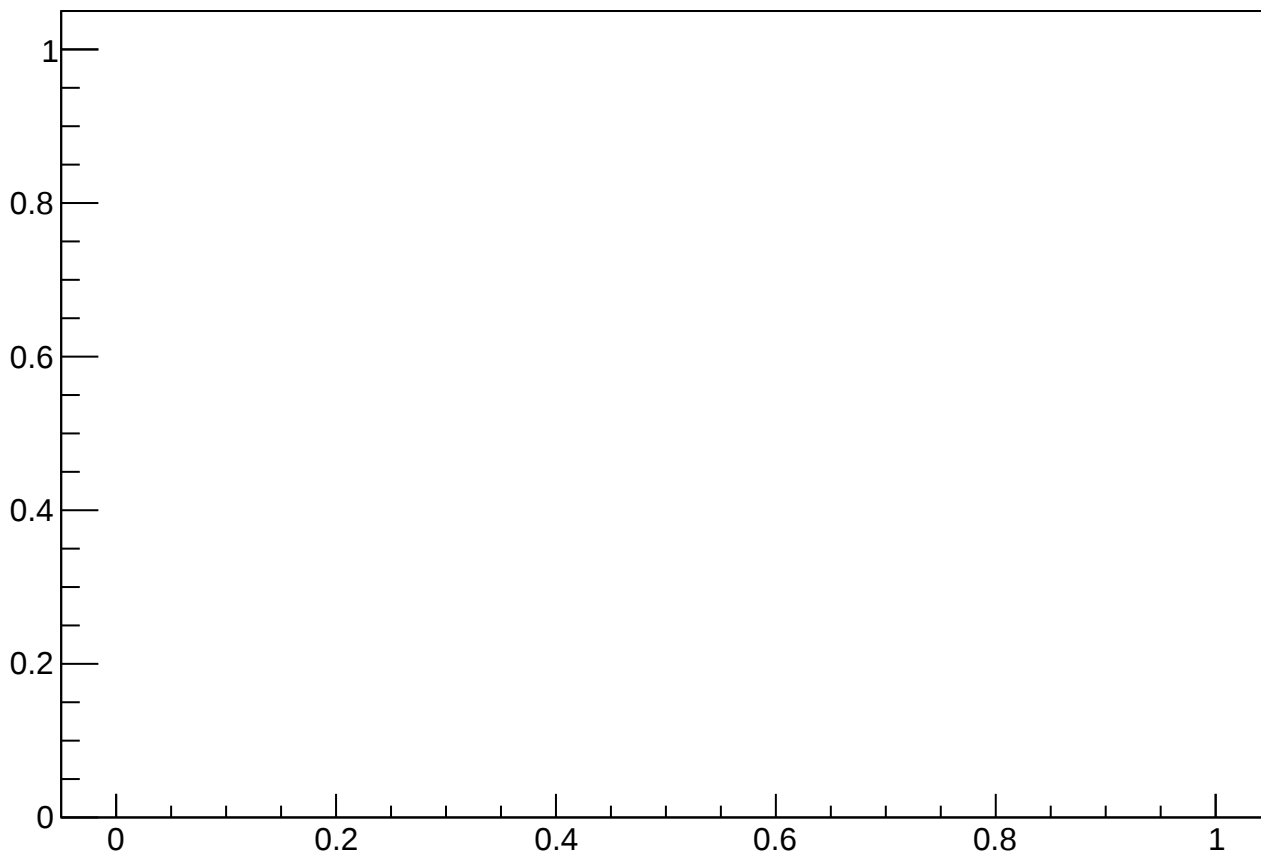
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

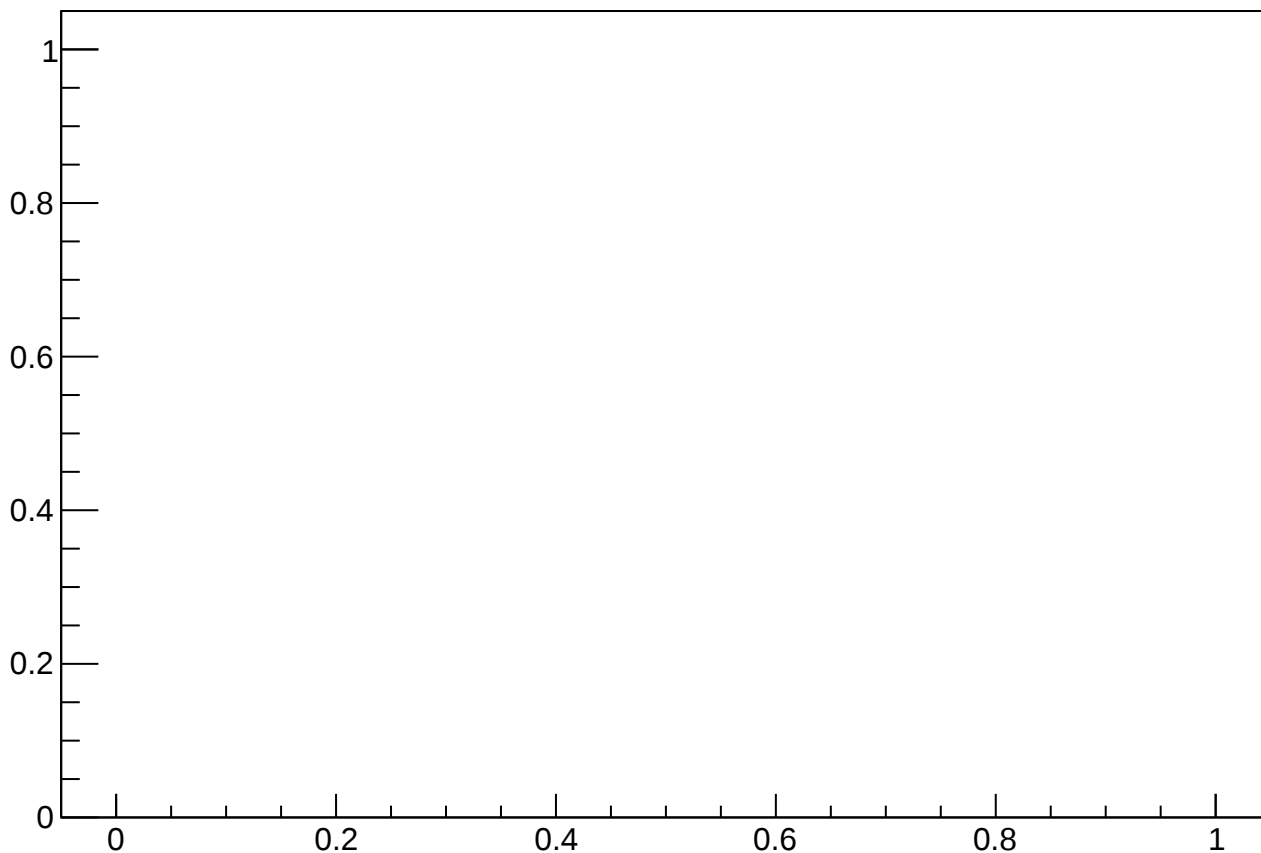
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

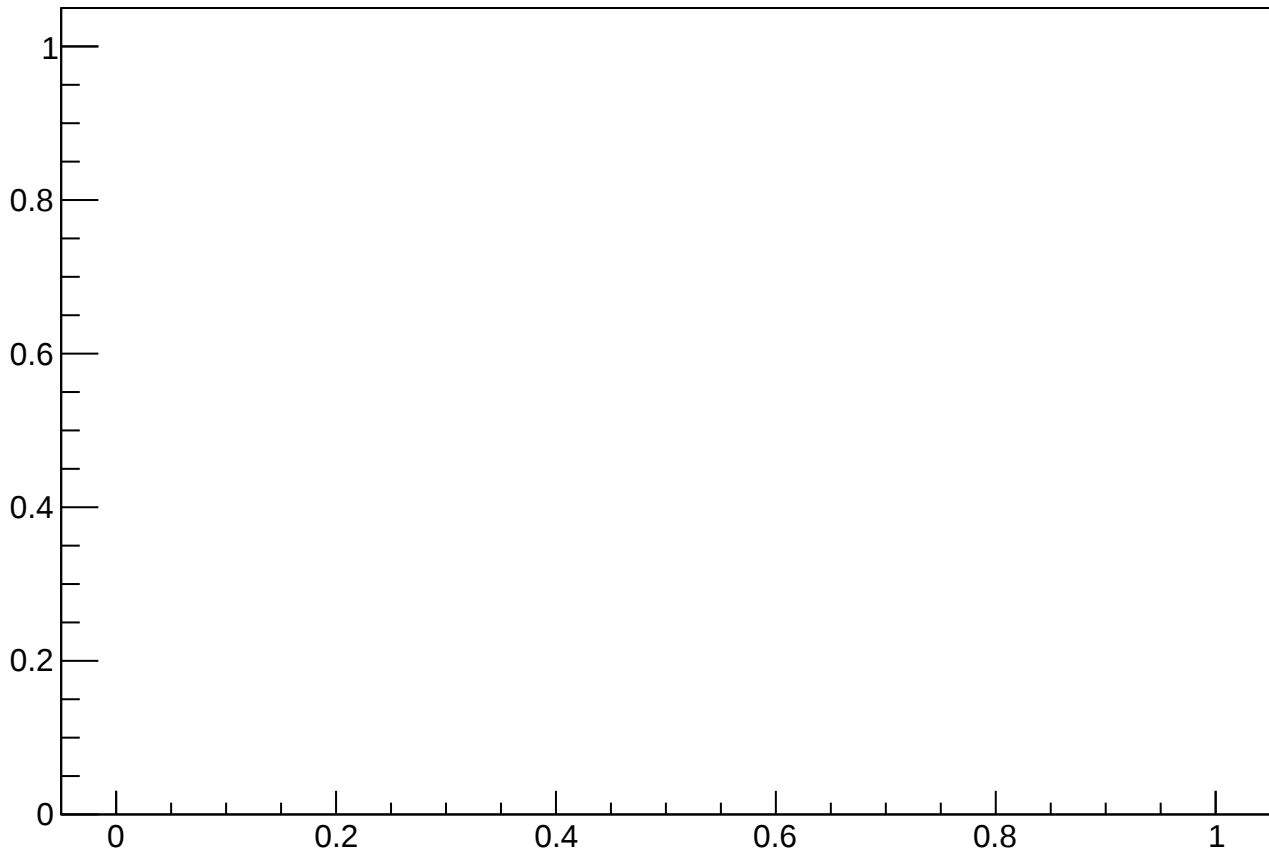
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

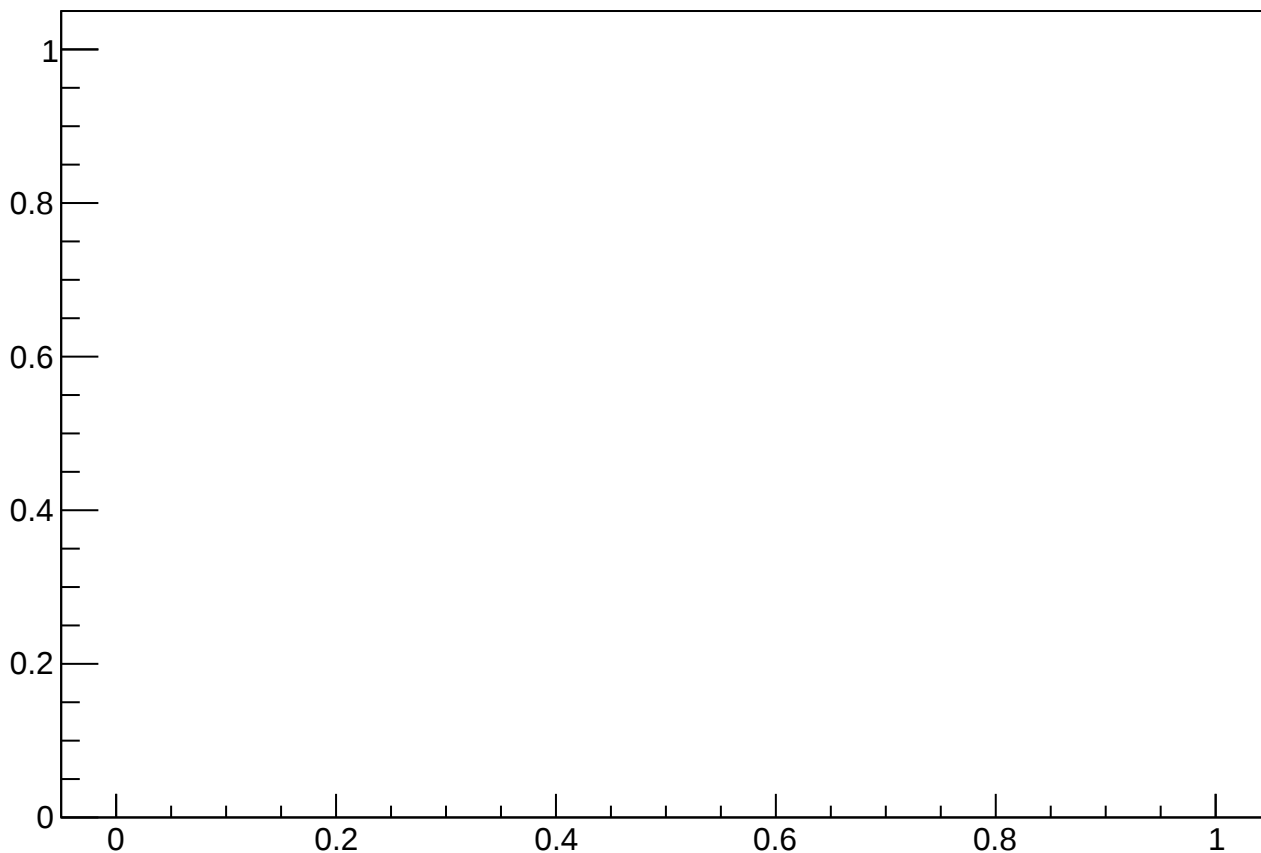
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

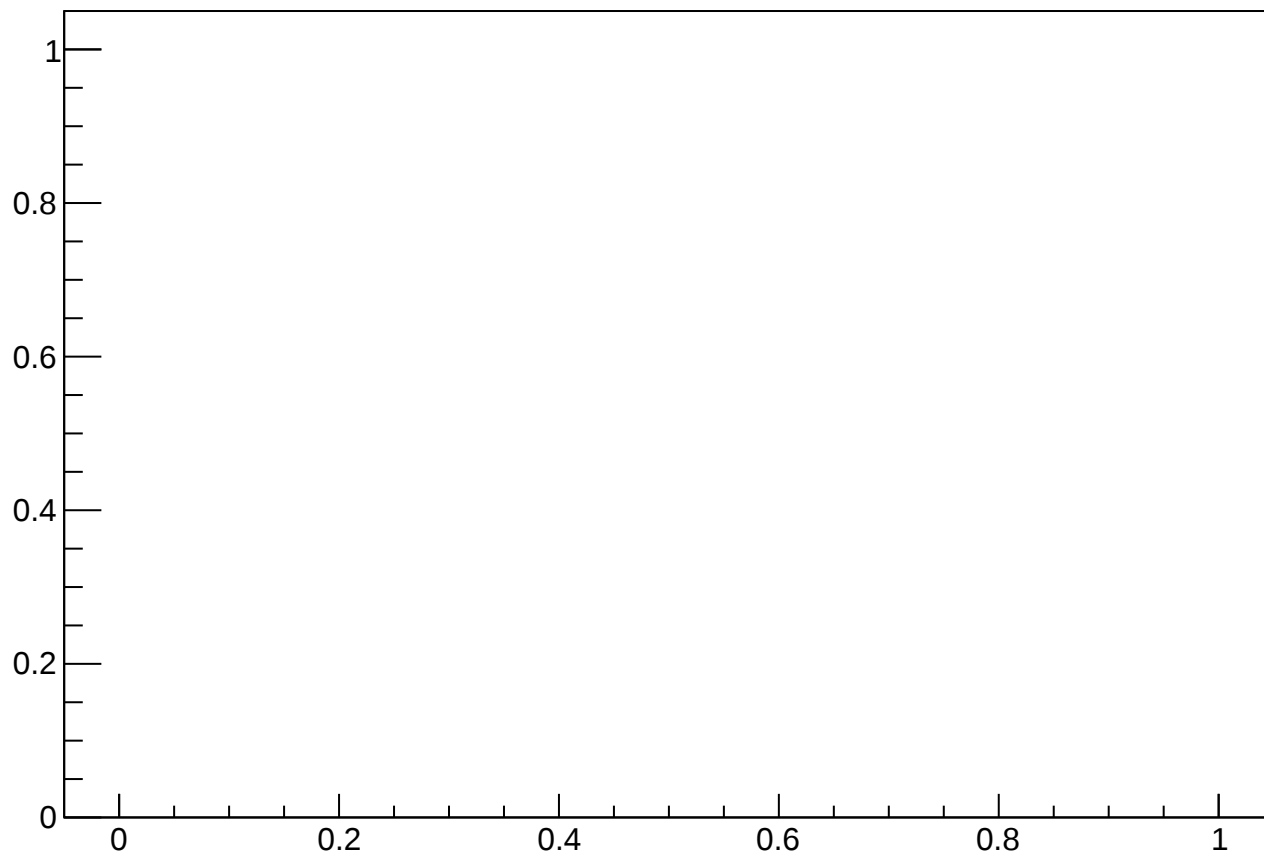
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

Out: 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\_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     $\chi^2$ /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\_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

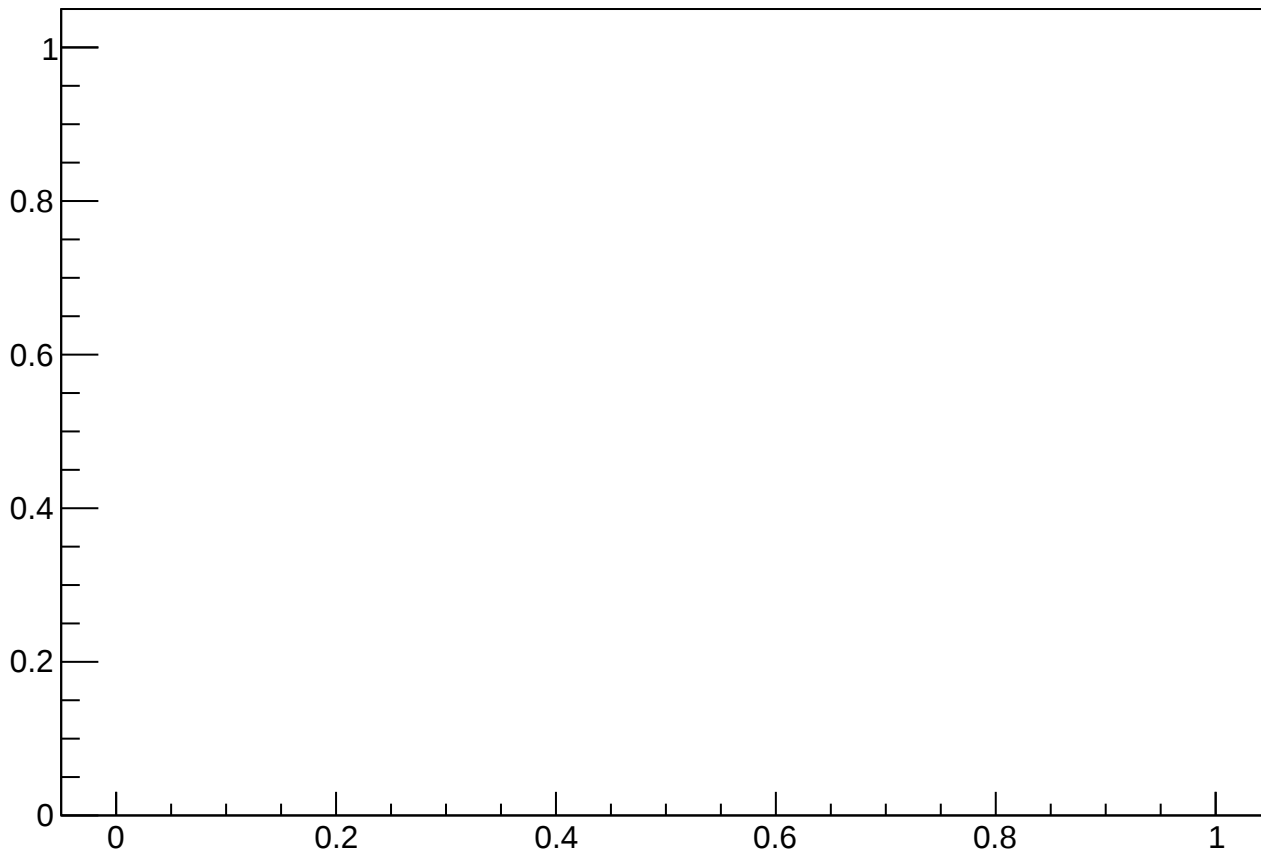
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

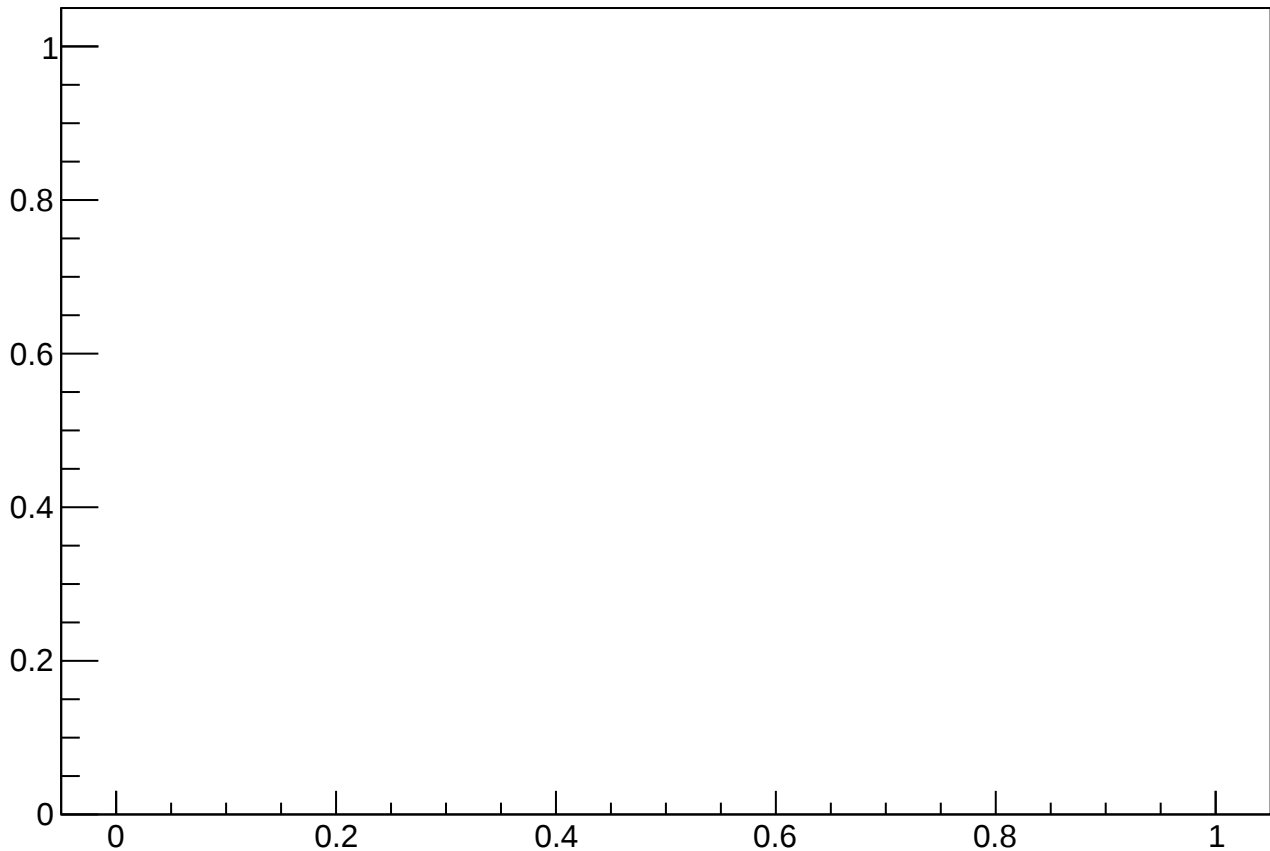
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

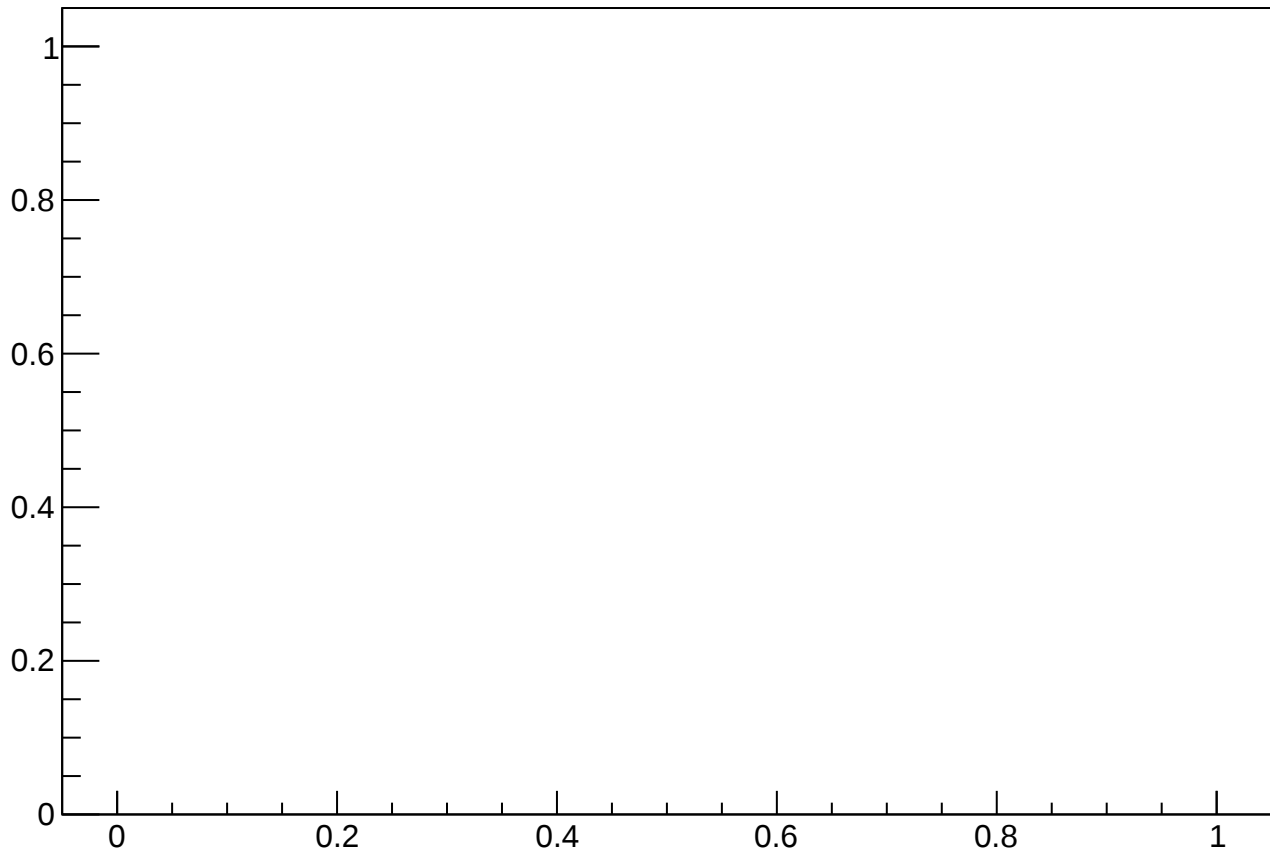
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

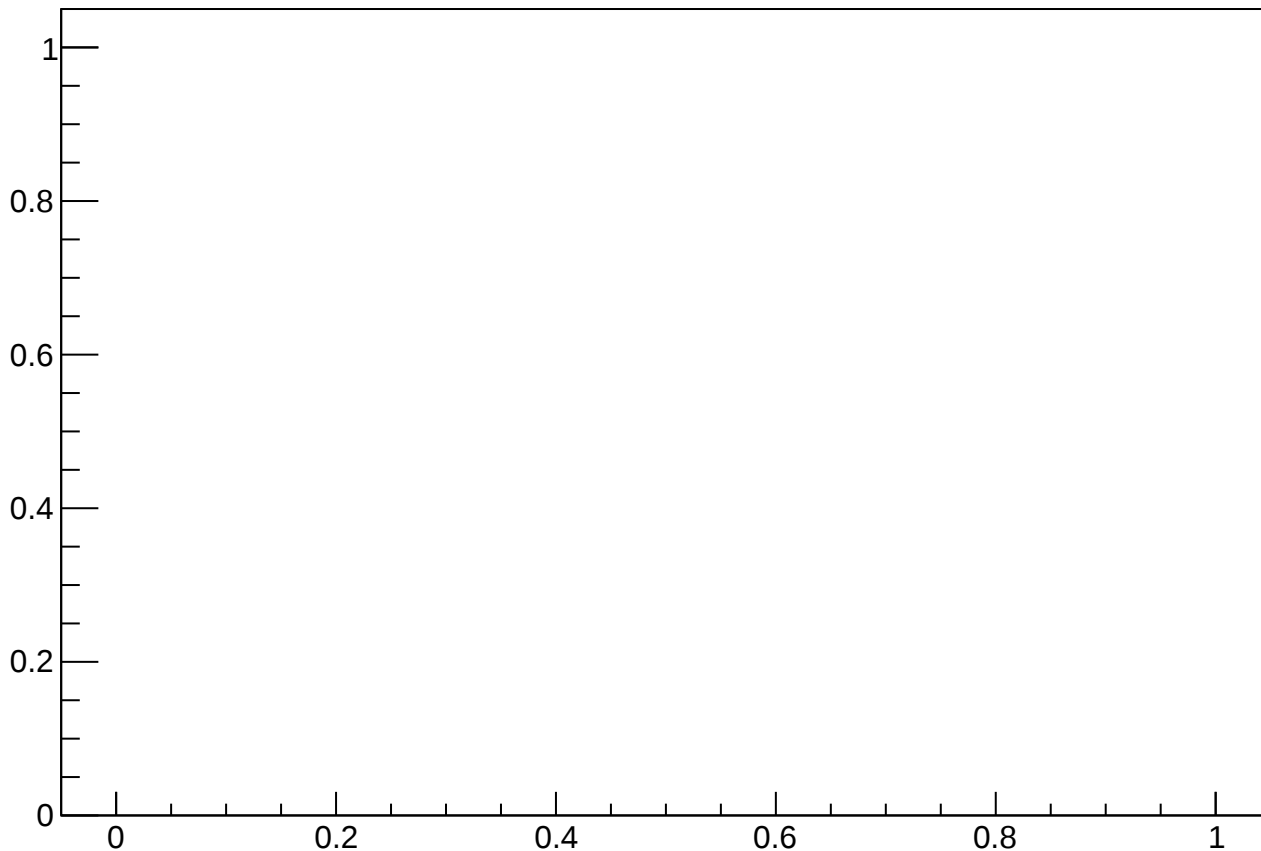
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

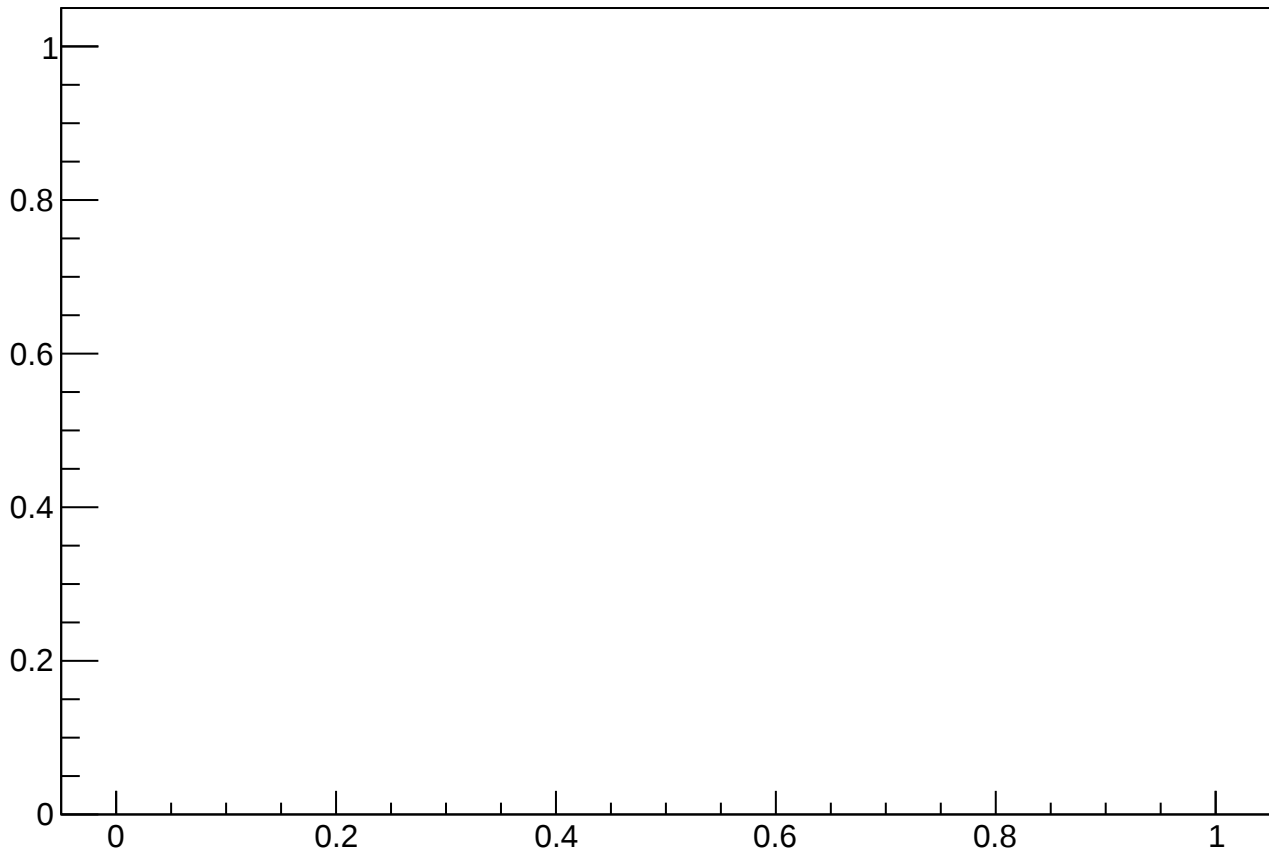
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

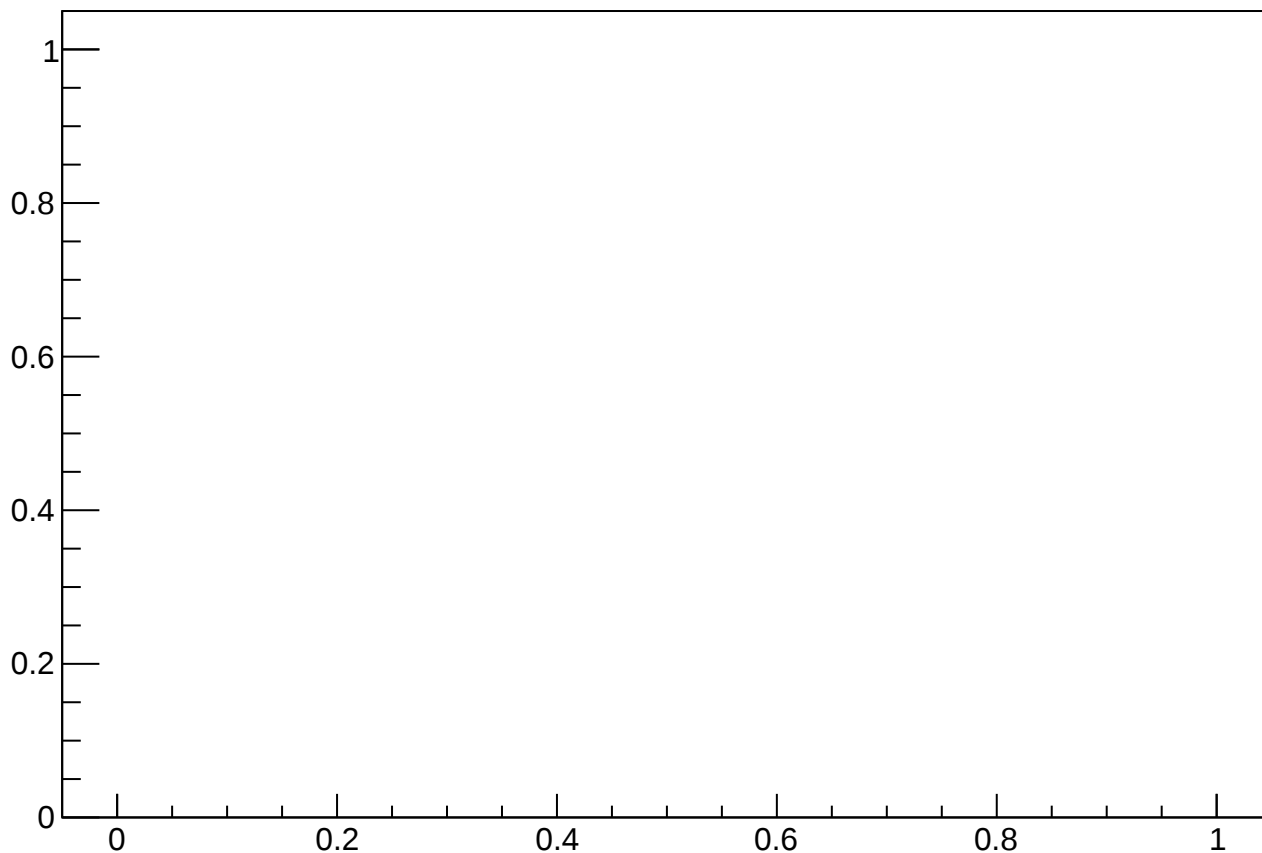
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

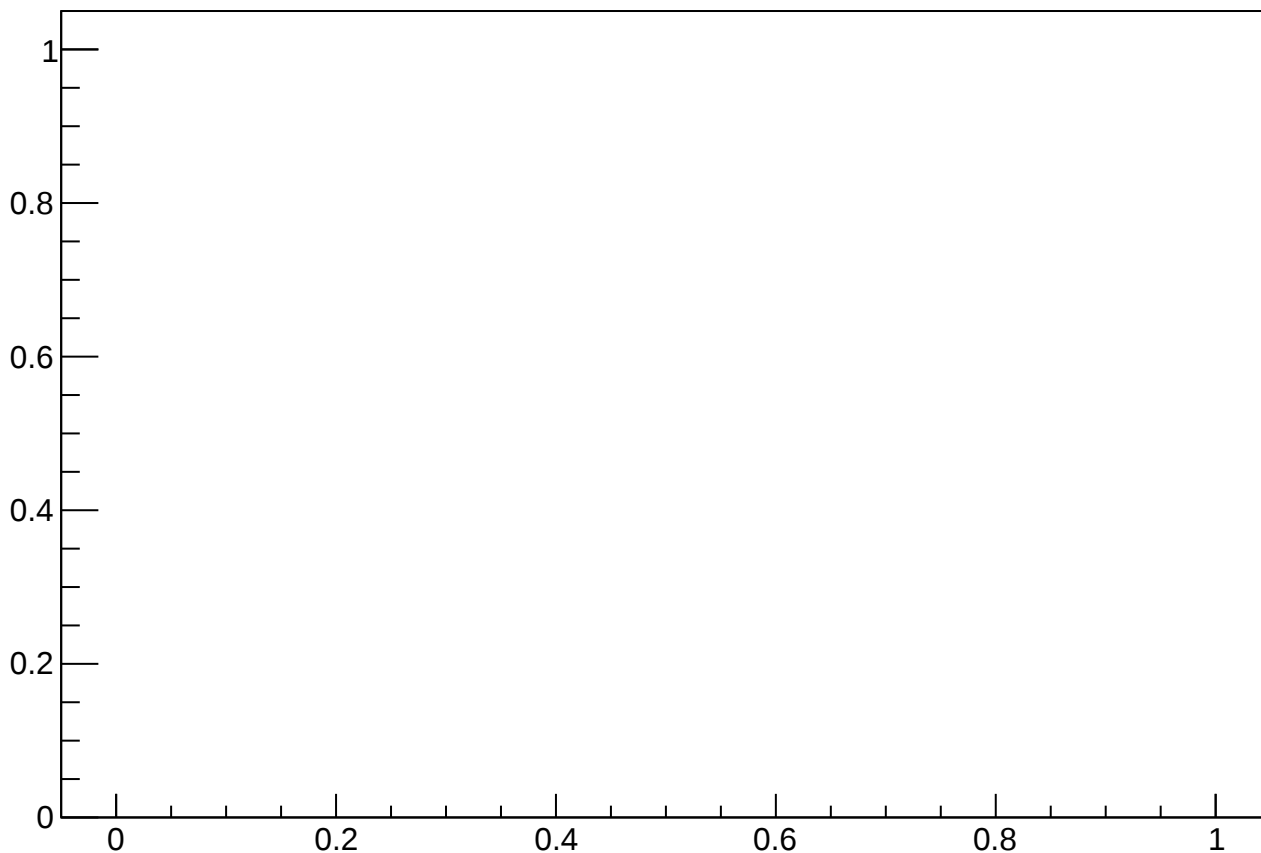
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

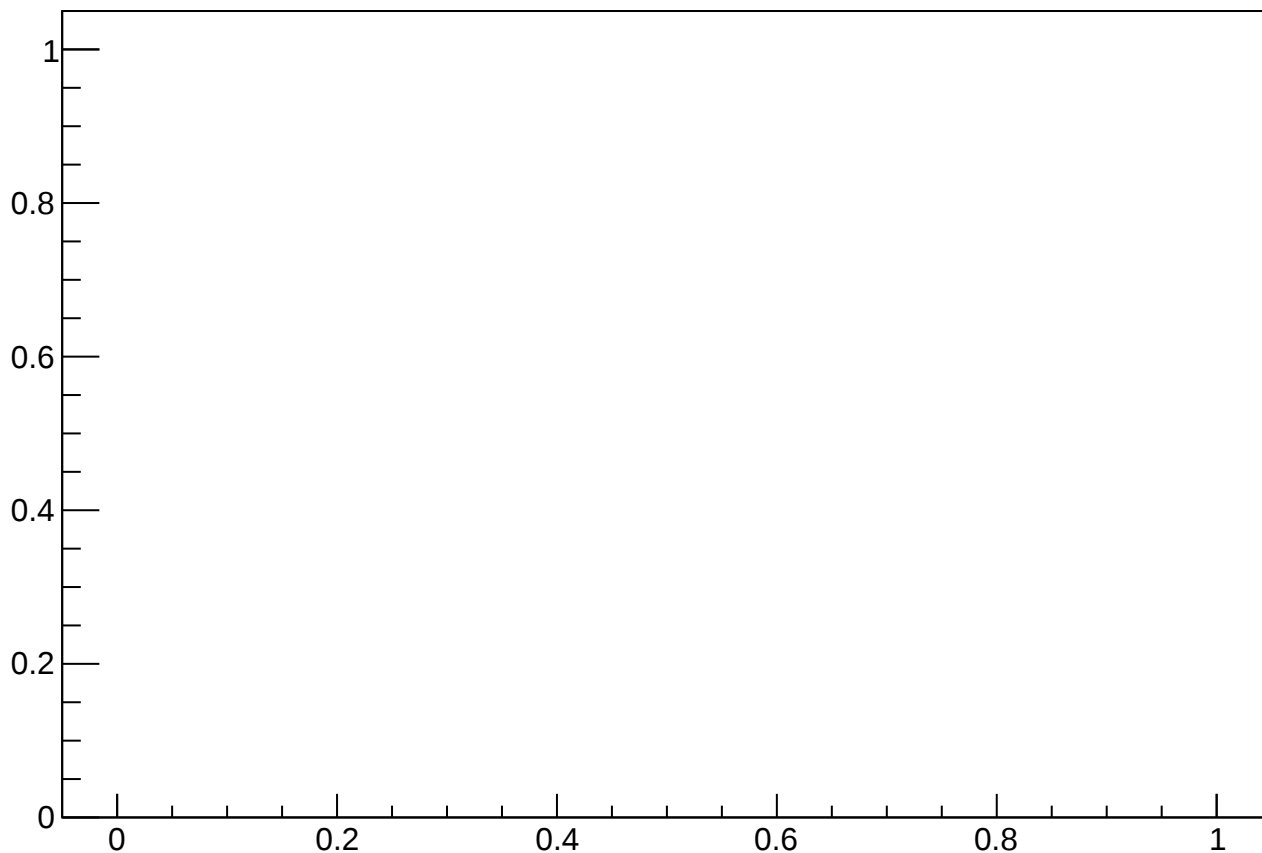
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

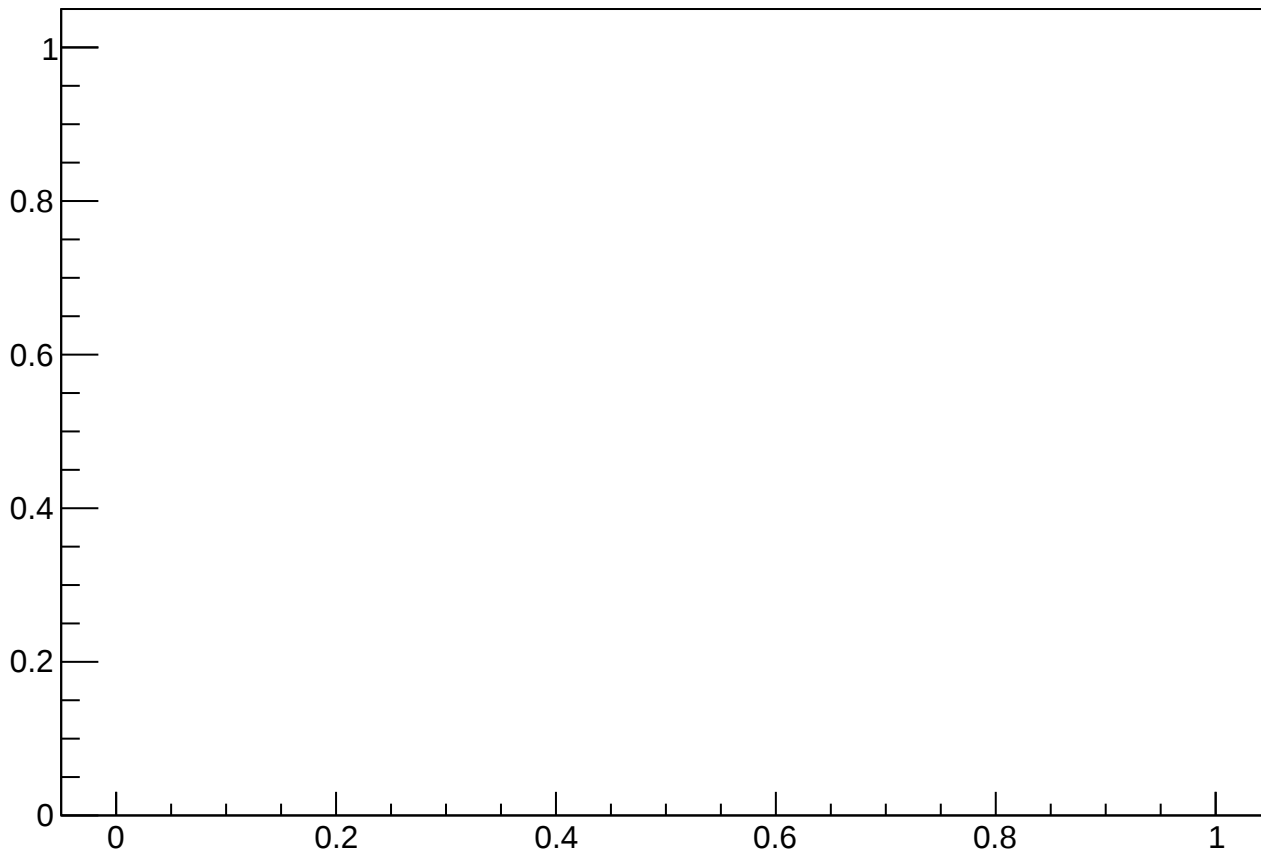
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

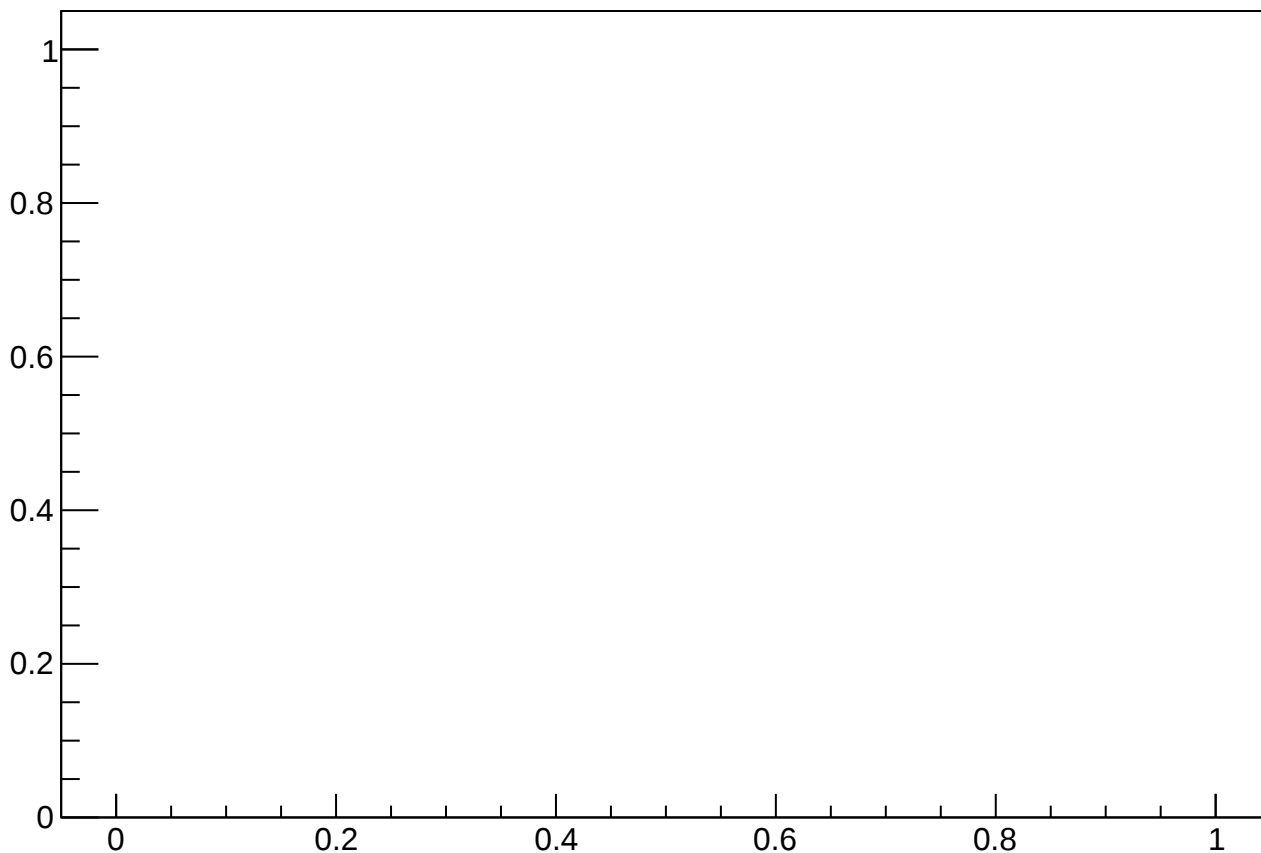
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

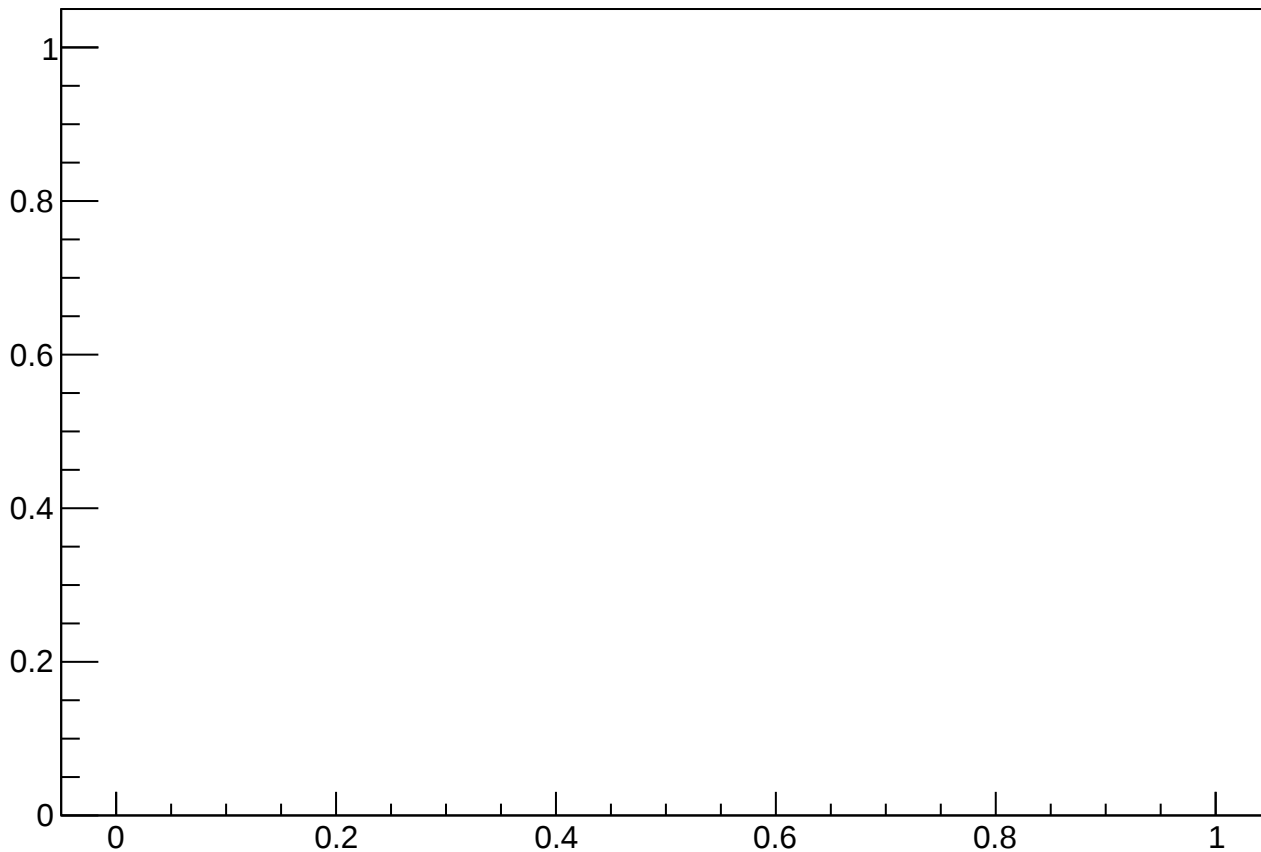
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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 $\pm$ 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\_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

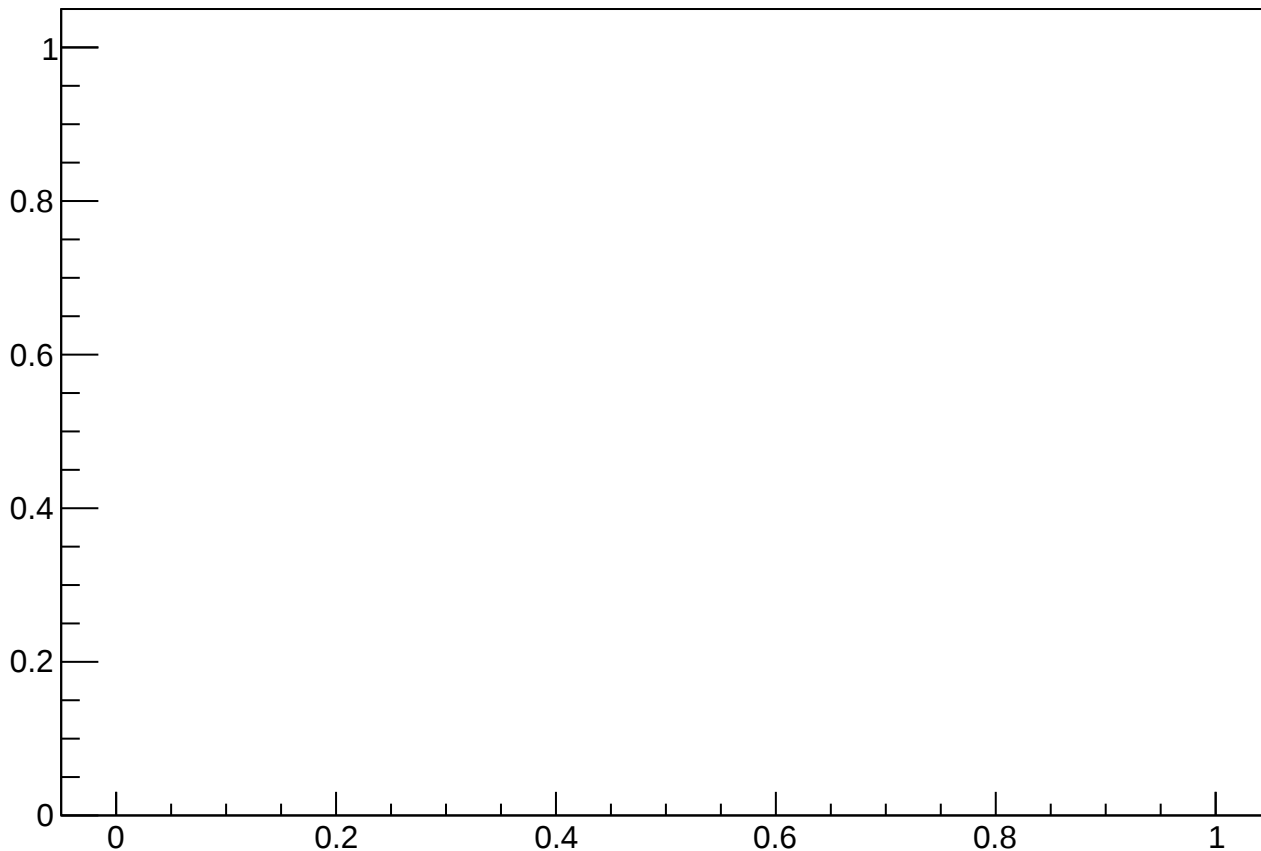
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

Out: 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\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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

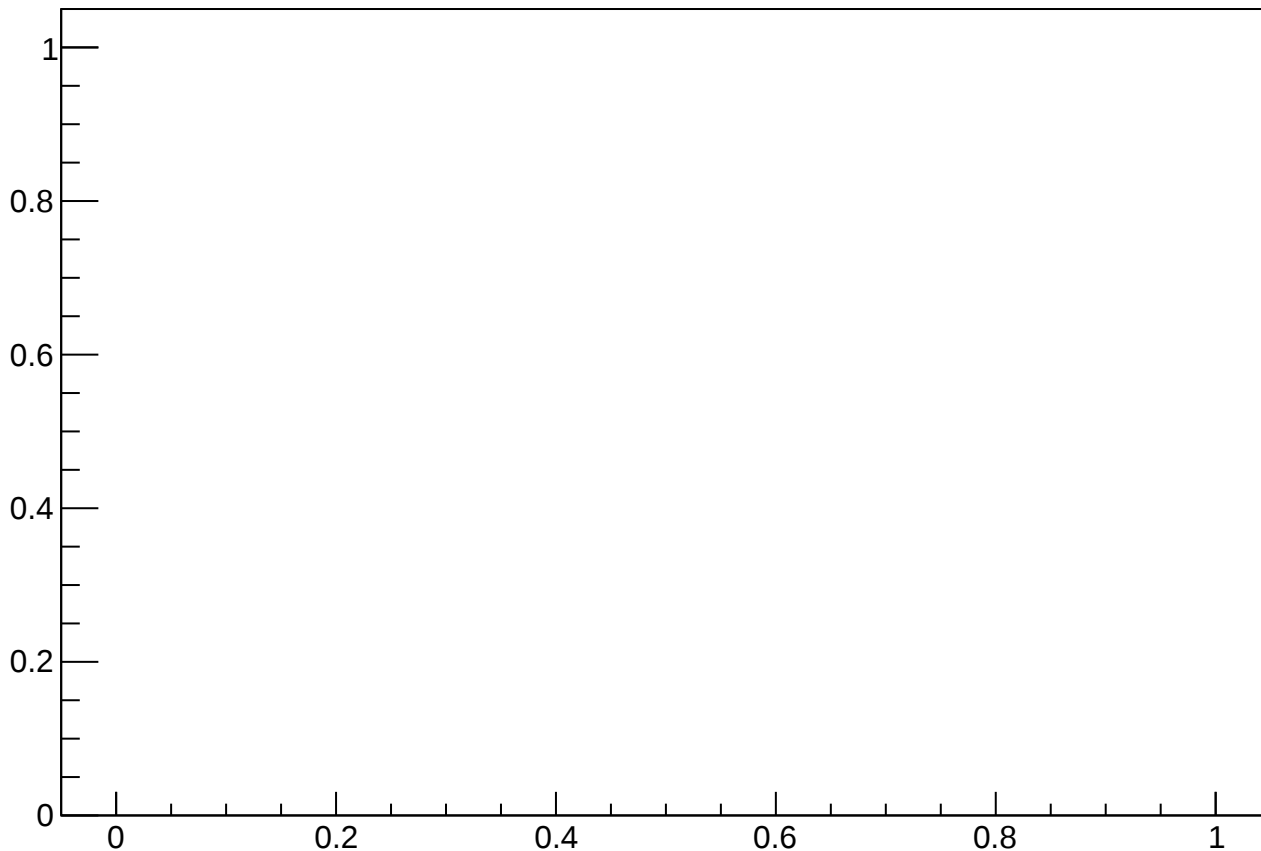
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

Out: 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\_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

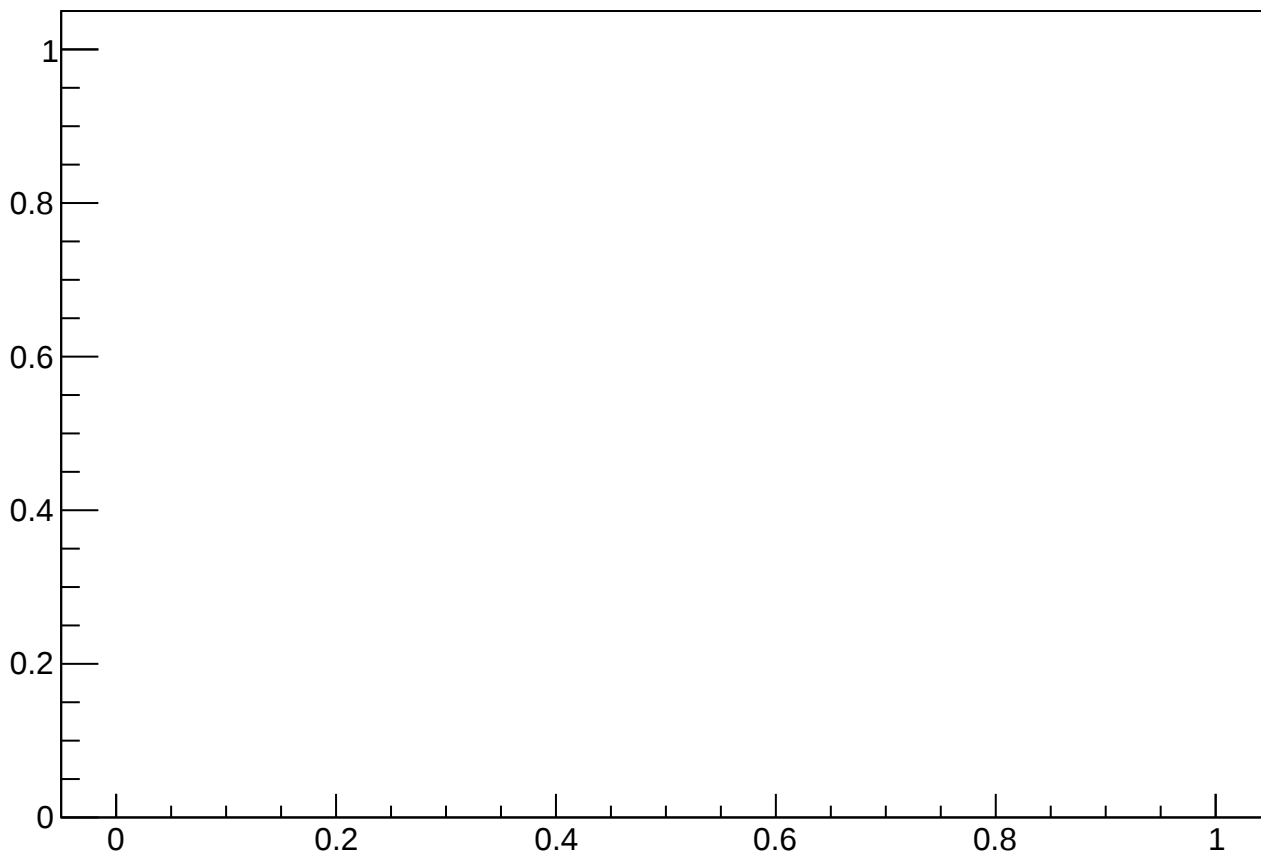
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

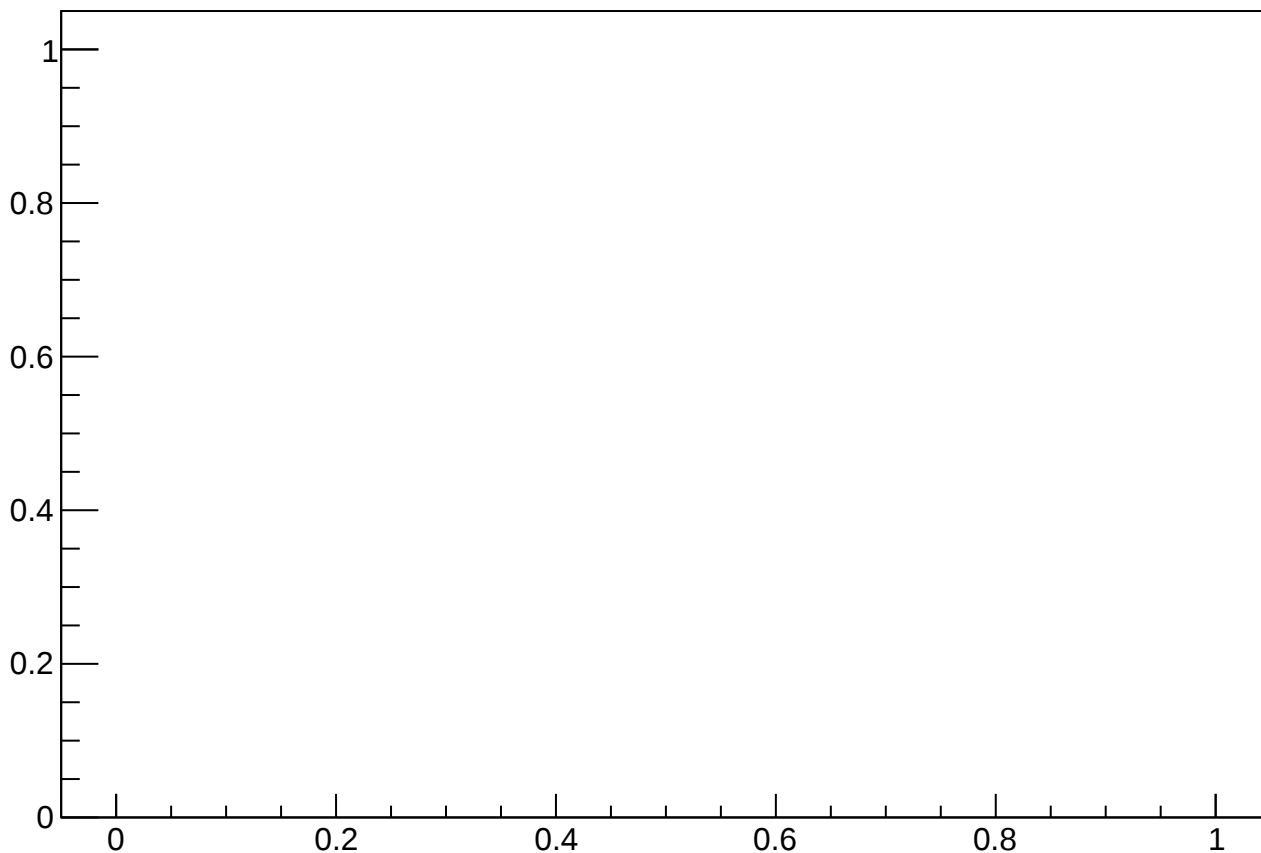
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

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

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

# dit\_flag\_mean vs Slug, Sign Corrected



Right In: 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\_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

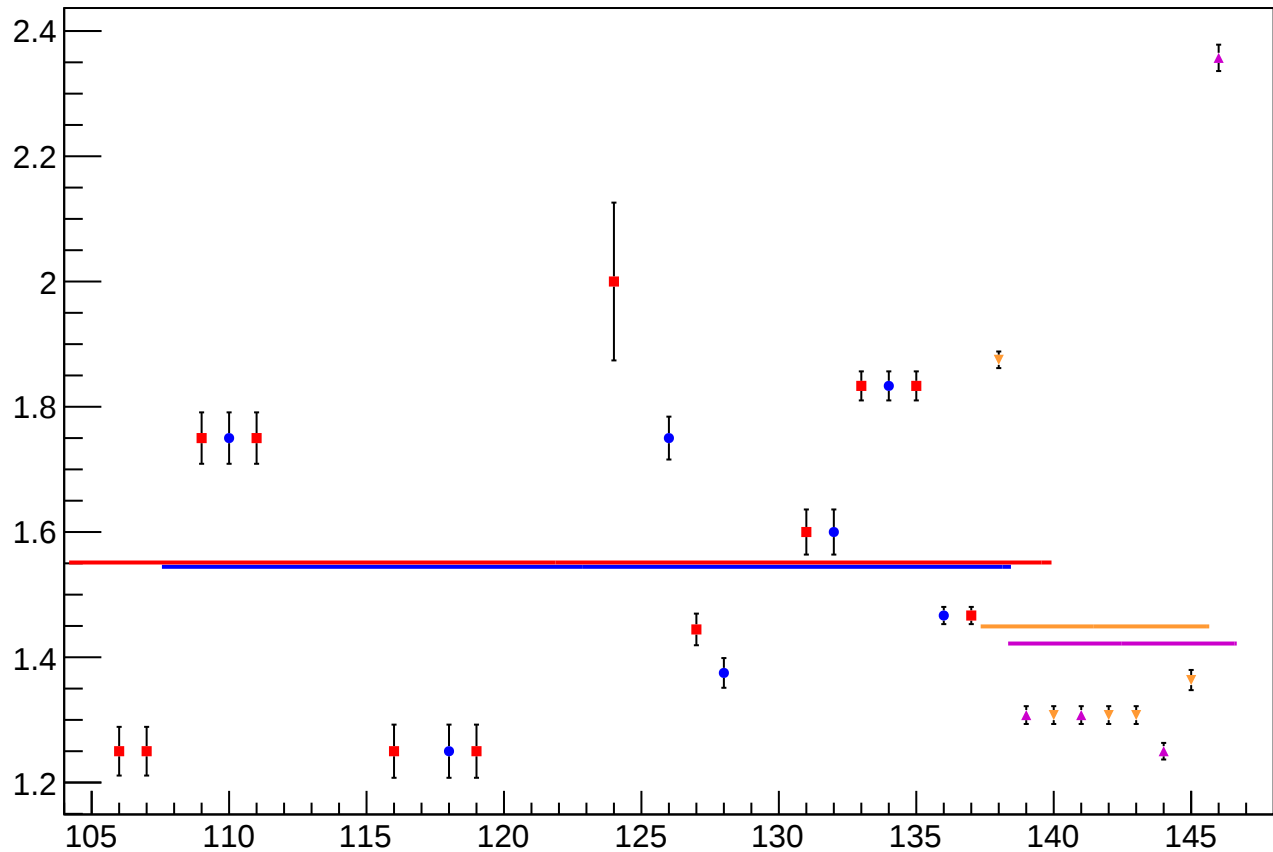
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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  $\chi^2/\text{NDF}$ : 349.7/6

Left Out: 1.449 $\pm$ 0.006  $\chi^2/\text{NDF}$ :1359.5/4

Right Out: 1.551 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 633.6/11

Left In: 1.422 $\pm$ 0.007  $\chi^2/\text{NDF}$ :2269.6/3

Left: 1.438 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 3636.9/8

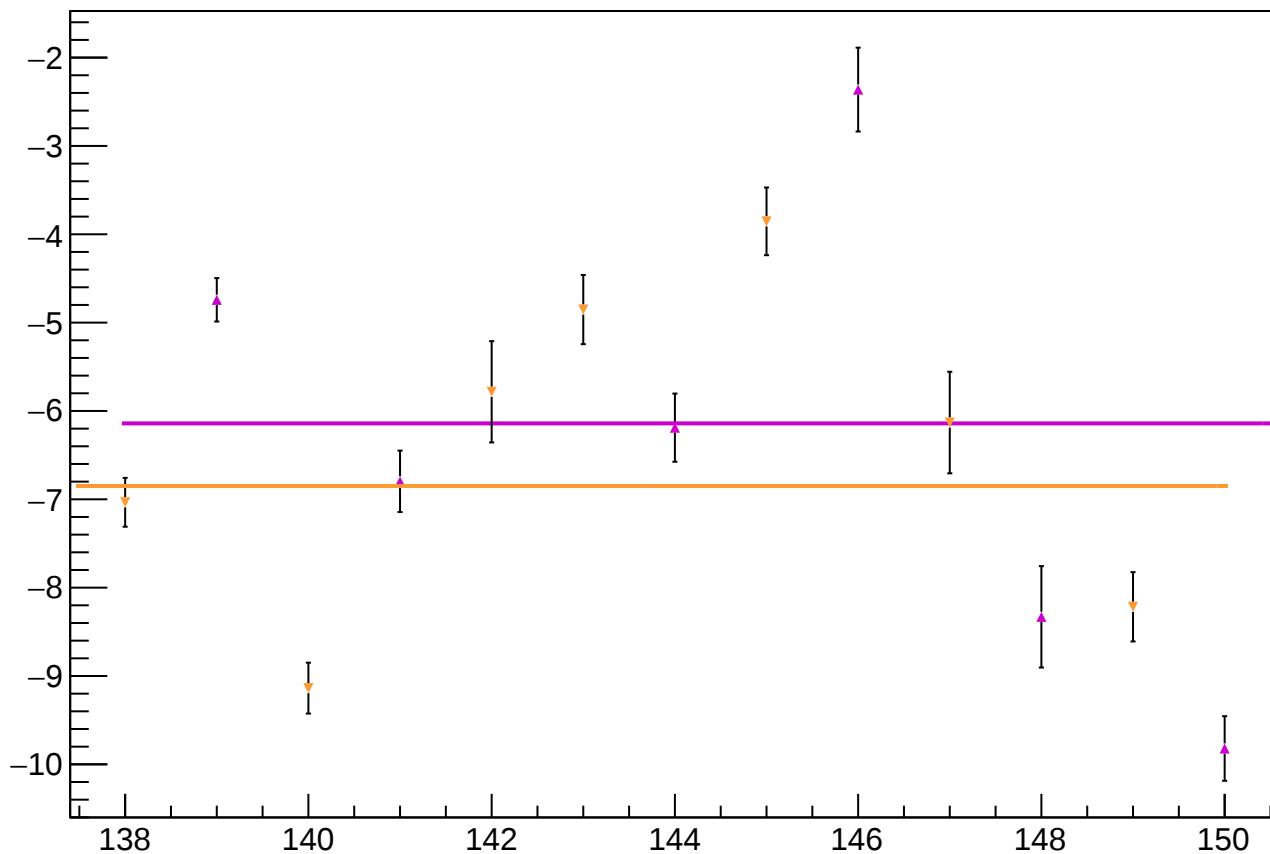
Right: 1.548 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 983.5/18

In: 1.470 $\pm$ 0.006  $\chi^2/\text{NDF}$ :2725.4/10

Out: 1.488 $\pm$ 0.005  $\chi^2/\text{NDF}$ :2090.0/16

All: 1.481 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 4820.7/27

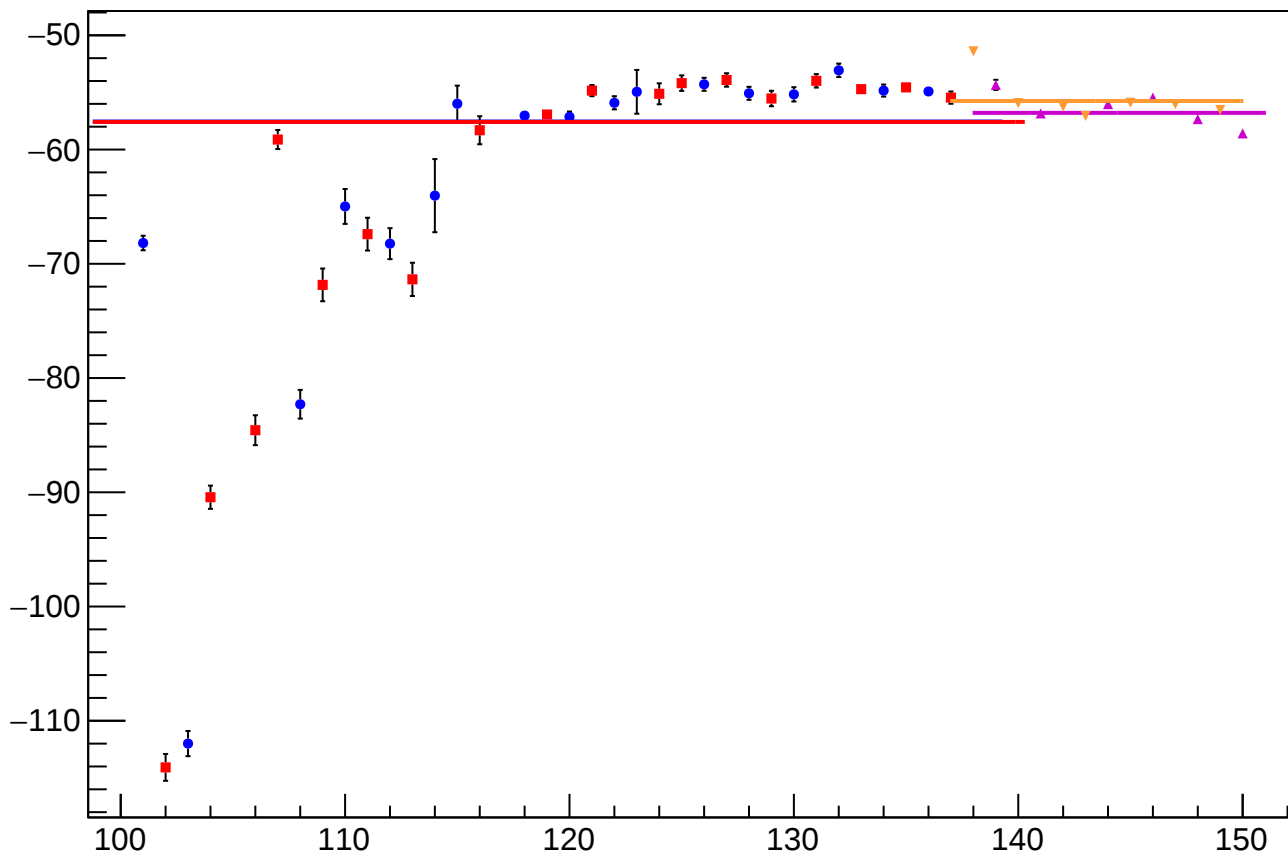
reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.850+/-0.140  $\chi^2/\text{NDF}$ :167.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.141+/-0.147  $\chi^2/\text{NDF}$ :215.1/5

Left: -6.512+/-0.101  $\chi^2/\text{NDF}$ : 395.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.141+/-0.147  $\chi^2/\text{NDF}$ :215.1/5  
 Out: -6.850+/-0.140  $\chi^2/\text{NDF}$ :167.9/6  
 All: -6.512+/-0.101  $\chi^2/\text{NDF}$ : 395.2/12

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-57.549 \pm 0.142$   $\chi^2/\text{NDF}$ : 3460.4/16

Left Out:  $-55.748 \pm 0.108$   $\chi^2/\text{NDF}$ : 217.9/6

Right Out:  $-57.581 \pm 0.143$   $\chi^2/\text{NDF}$ : 4343.8/17

Left In:  $-56.789 \pm 0.117$   $\chi^2/\text{NDF}$ : 112.2/5

Left:  $-56.225 \pm 0.079$   $\chi^2/\text{NDF}$ : 372.8/12

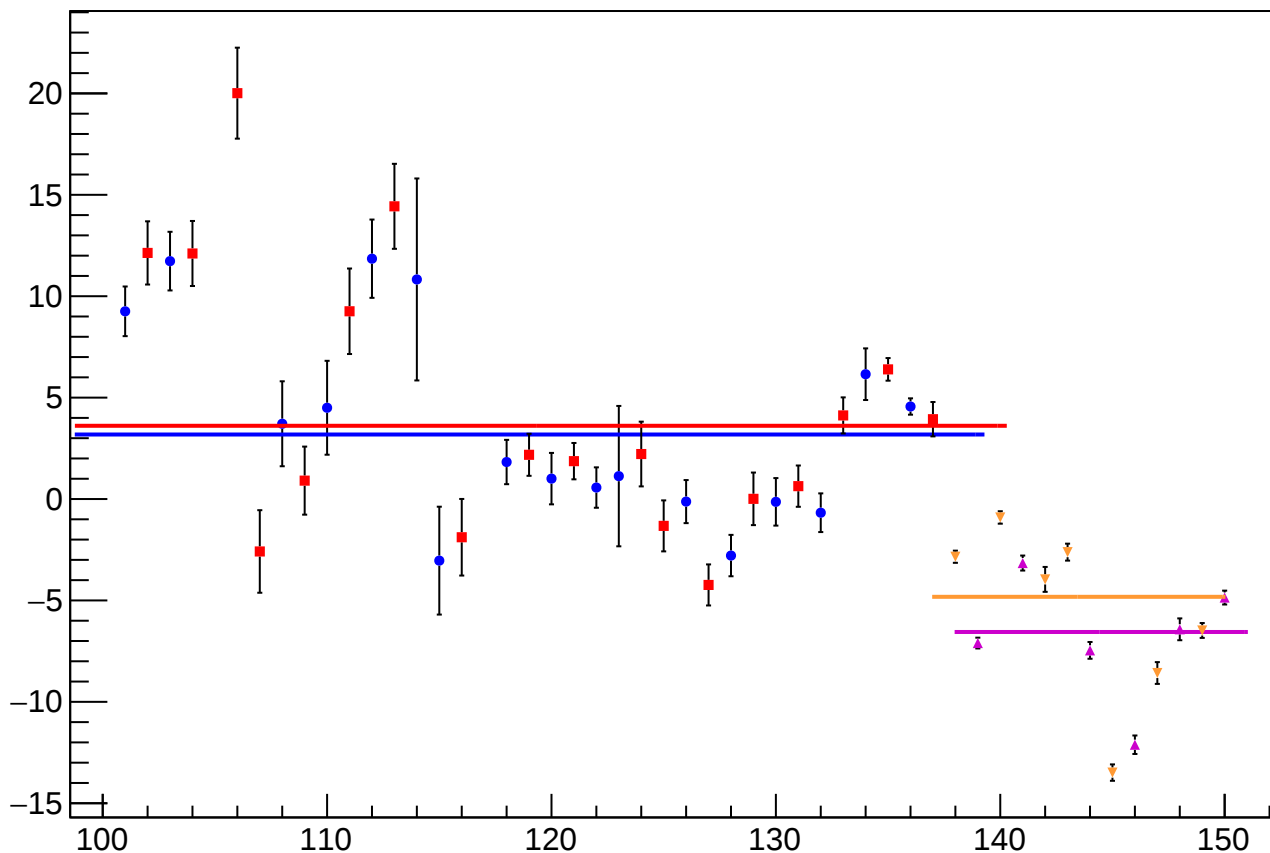
Right:  $-57.565 \pm 0.101$   $\chi^2/\text{NDF}$ : 7804.2/34

In:  $-57.098 \pm 0.090$   $\chi^2/\text{NDF}$ : 3589.7/22

Out:  $-56.413 \pm 0.086$   $\chi^2/\text{NDF}$ : 4666.4/24

All:  $-56.739 \pm 0.062$   $\chi^2/\text{NDF}$ : 8286.4/47

reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}: 185.2/16$

Left Out:  $-4.821 \pm 0.146$   $\chi^2/\text{NDF}: 764.3/6$

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}: 289.2/17$

Left In:  $-6.555 \pm 0.151$   $\chi^2/\text{NDF}: 267.0/5$

Left:  $-5.660 \pm 0.105$   $\chi^2/\text{NDF}: 1099.7/12$

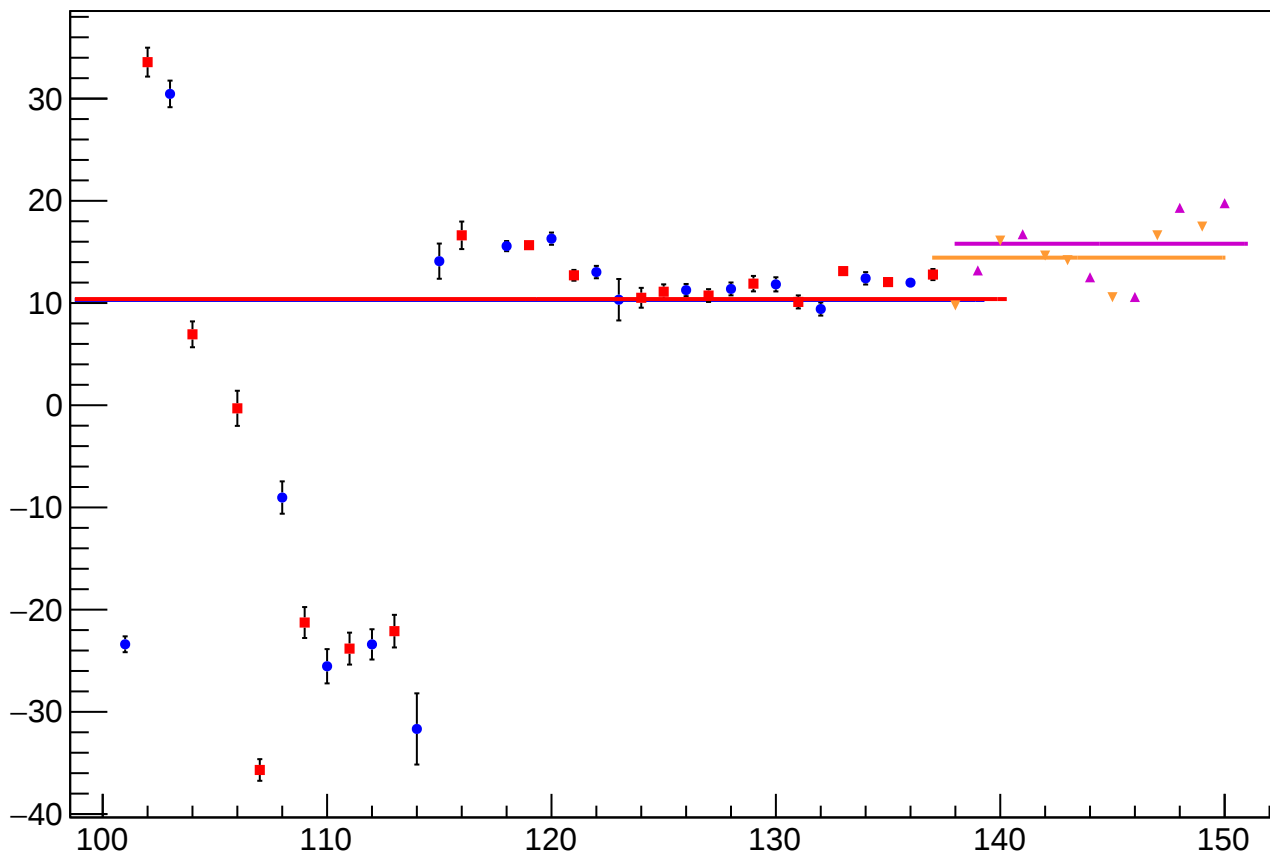
Right:  $3.388 \pm 0.186$   $\chi^2/\text{NDF}: 475.8/34$

In:  $-4.081 \pm 0.130$   $\chi^2/\text{NDF}: 1514.6/22$

Out:  $-2.896 \pm 0.128$   $\chi^2/\text{NDF}: 1818.3/24$

All:  $-3.479 \pm 0.091$   $\chi^2/\text{NDF}: 3375.1/47$

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: 14.441+/-0.129  $\chi^2/\text{NDF}$ : 453.0/6

Right Out: 10.388+/-0.160  $\chi^2/\text{NDF}$ : 3786.4/17

Left In: 15.801+/-0.140  $\chi^2/\text{NDF}$ : 604.4/5

Left: 15.069+/-0.095  $\chi^2/\text{NDF}$ : 1108.5/12

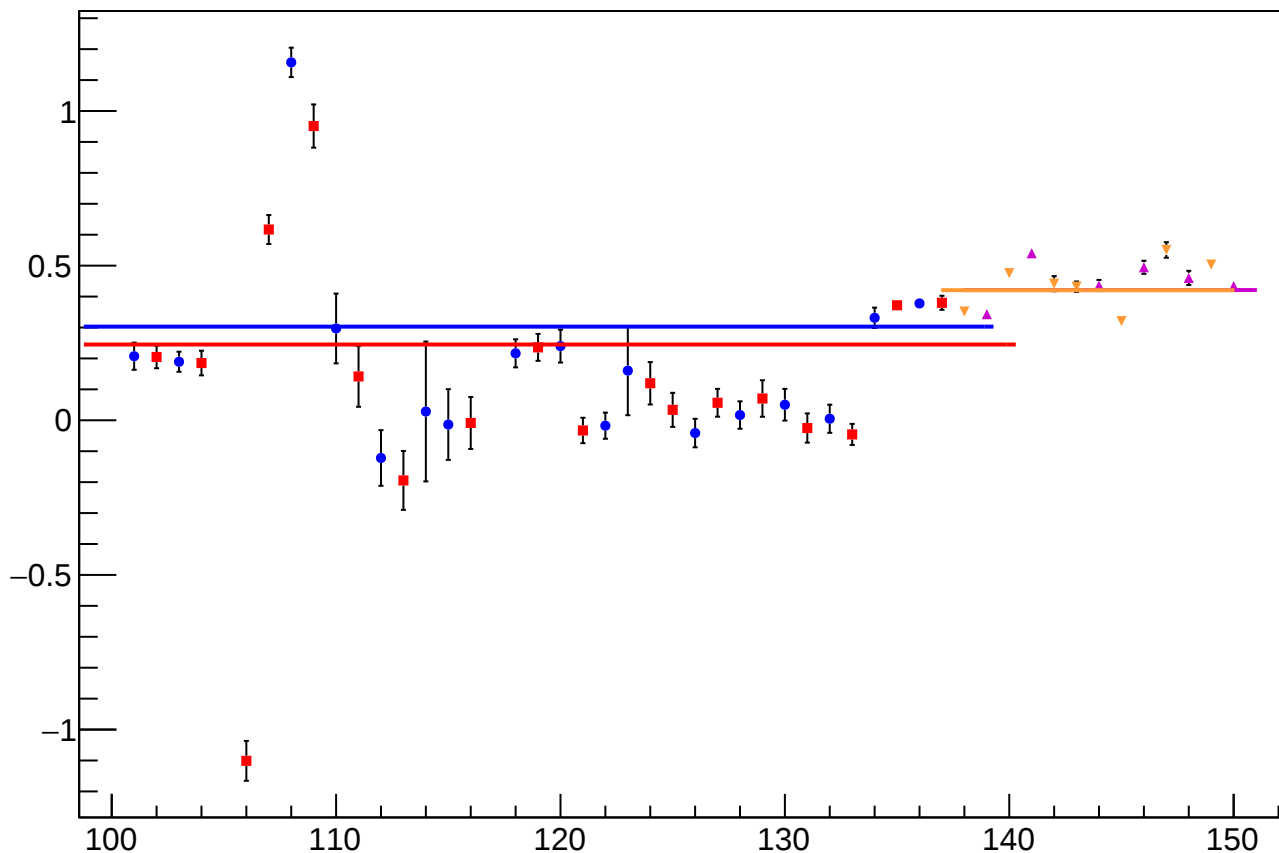
Right: 10.344+/-0.112  $\chi^2/\text{NDF}$ : 7485.9/34

In: 13.371+/-0.104  $\chi^2/\text{NDF}$ : 4989.0/22

Out: 12.837+/-0.101  $\chi^2/\text{NDF}$ : 4627.6/24

All: 13.094+/-0.072  $\chi^2/\text{NDF}$ : 9630.2/47

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 647.2/16

Left Out:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}$ : 148.1/6

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

Left In:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}$ : 149.0/5

Left:  $0.421 \pm 0.004$   $\chi^2/\text{NDF}$ : 297.1/12

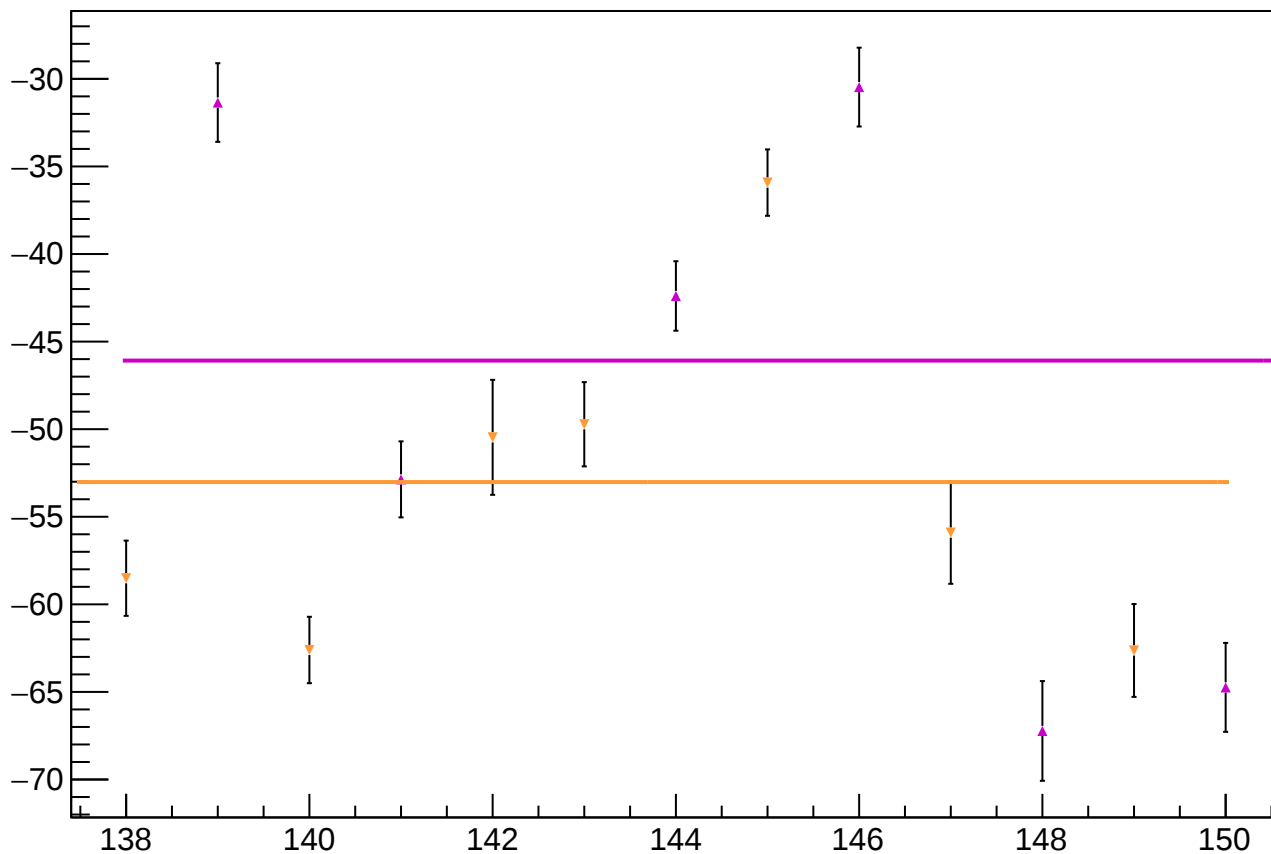
Right:  $0.275 \pm 0.006$   $\chi^2/\text{NDF}$ : 1625.6/34

In:  $0.380 \pm 0.005$   $\chi^2/\text{NDF}$ : 932.0/22

Out:  $0.363 \pm 0.005$   $\chi^2/\text{NDF}$ : 1387.6/24

All:  $0.371 \pm 0.003$   $\chi^2/\text{NDF}$ : 2325.9/47

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: -53.019+/-0.878  $\chi^2/\text{NDF}$ :130.1/6

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

Left In: -46.083+/-0.936  $\chi^2/\text{NDF}$ :213.6/5

Left: -49.775+/-0.640  $\chi^2/\text{NDF}$ : 372.9/12

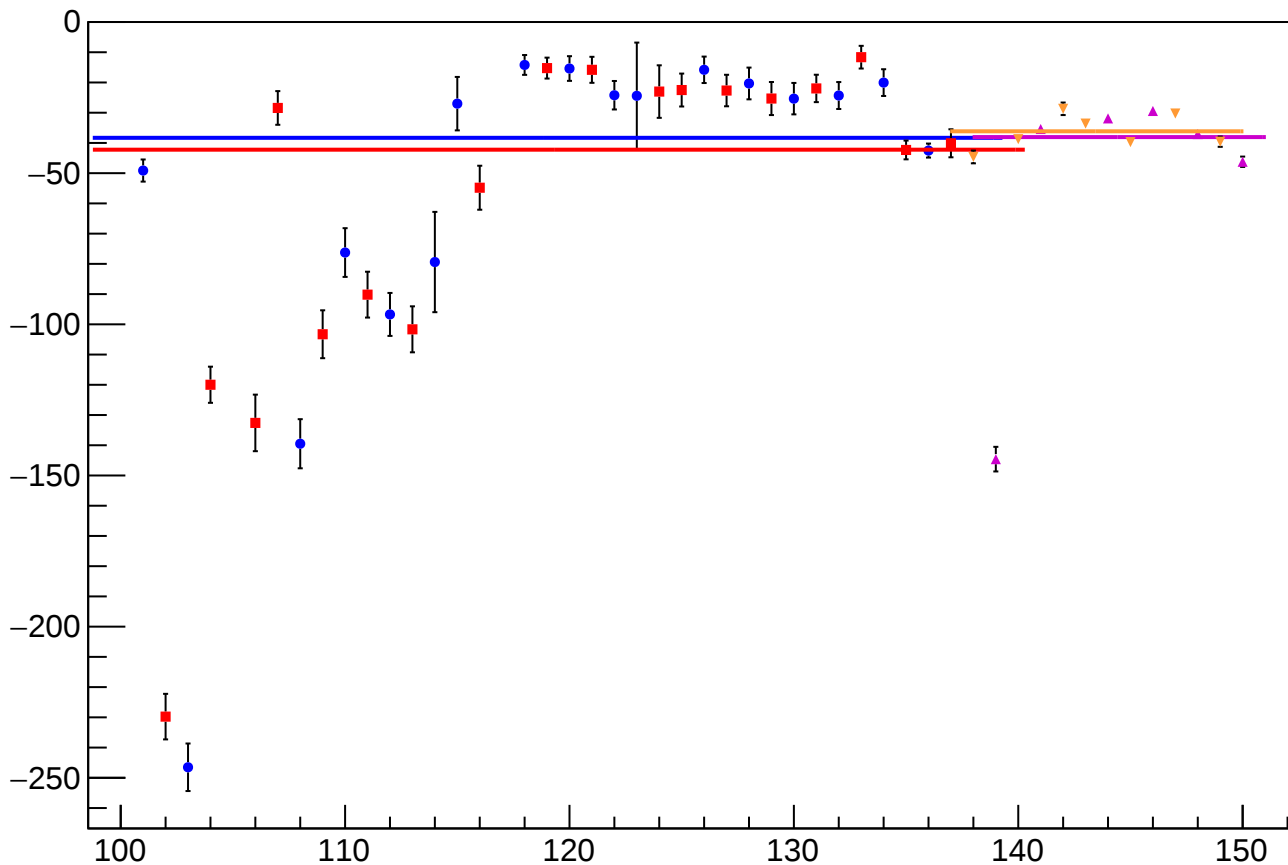
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -46.083+/-0.936  $\chi^2/\text{NDF}$ :213.6/5

Out: -53.019+/-0.878  $\chi^2/\text{NDF}$ :130.1/6

All: -49.775+/-0.640  $\chi^2/\text{NDF}$ : 372.9/12

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:  $-36.149 \pm 0.628$   $\chi^2/\text{NDF}: 61.9/6$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

Left In:  $-38.064 \pm 0.651$   $\chi^2/\text{NDF}: 768.8/5$

Left:  $-37.071 \pm 0.452$   $\chi^2/\text{NDF}: 835.2/12$

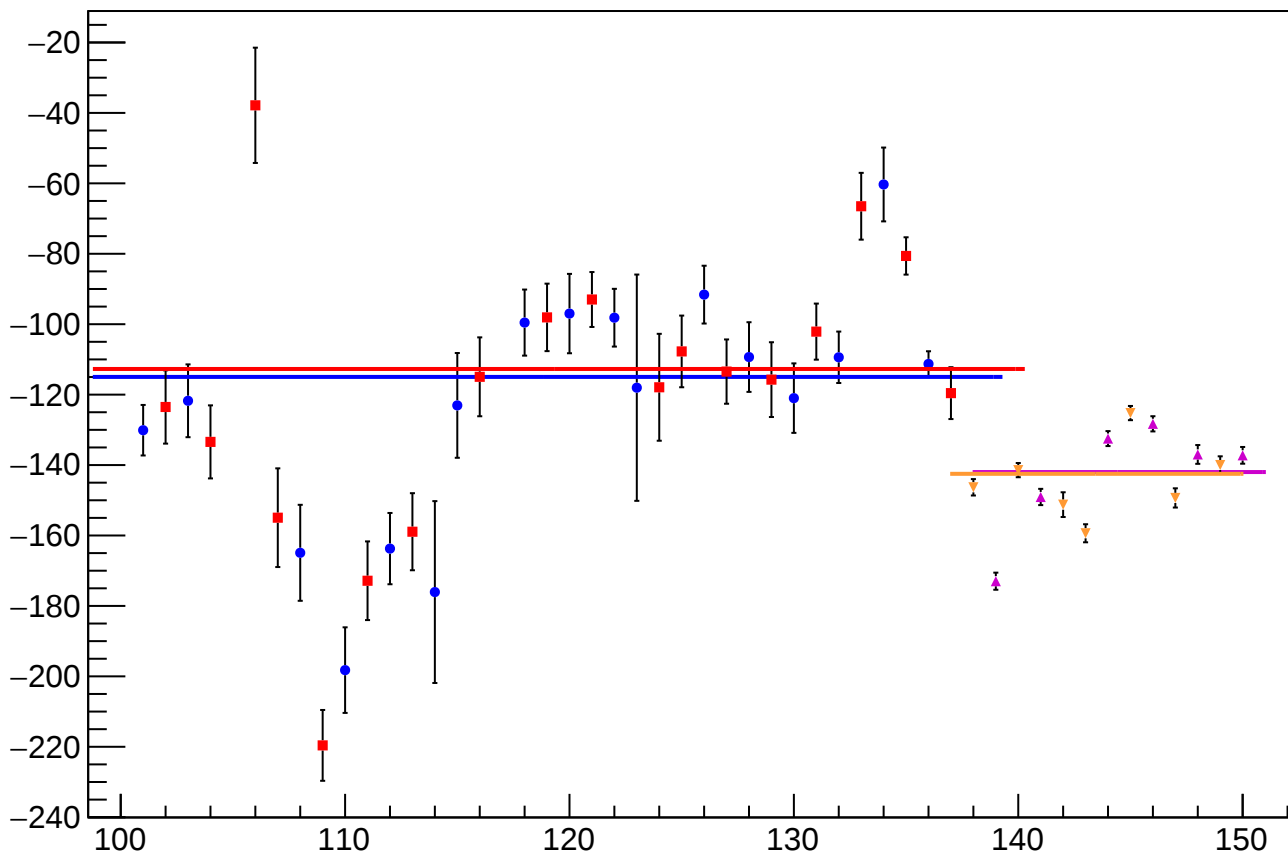
Right:  $-40.148 \pm 0.829$   $\chi^2/\text{NDF}: 2416.5/34$

In:  $-38.123 \pm 0.565$   $\chi^2/\text{NDF}: 1901.6/22$

Out:  $-37.440 \pm 0.557$   $\chi^2/\text{NDF}: 1359.9/24$

All:  $-37.777 \pm 0.397$   $\chi^2/\text{NDF}: 3262.3/47$

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:  $-142.487 \pm 0.911$   $\chi^2/\text{NDF}: 132.9/6$

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}: 267.1/17$

Left In:  $-141.983 \pm 0.949$   $\chi^2/\text{NDF}: 240.1/5$

Left:  $-142.245 \pm 0.657$   $\chi^2/\text{NDF}: 373.2/12$

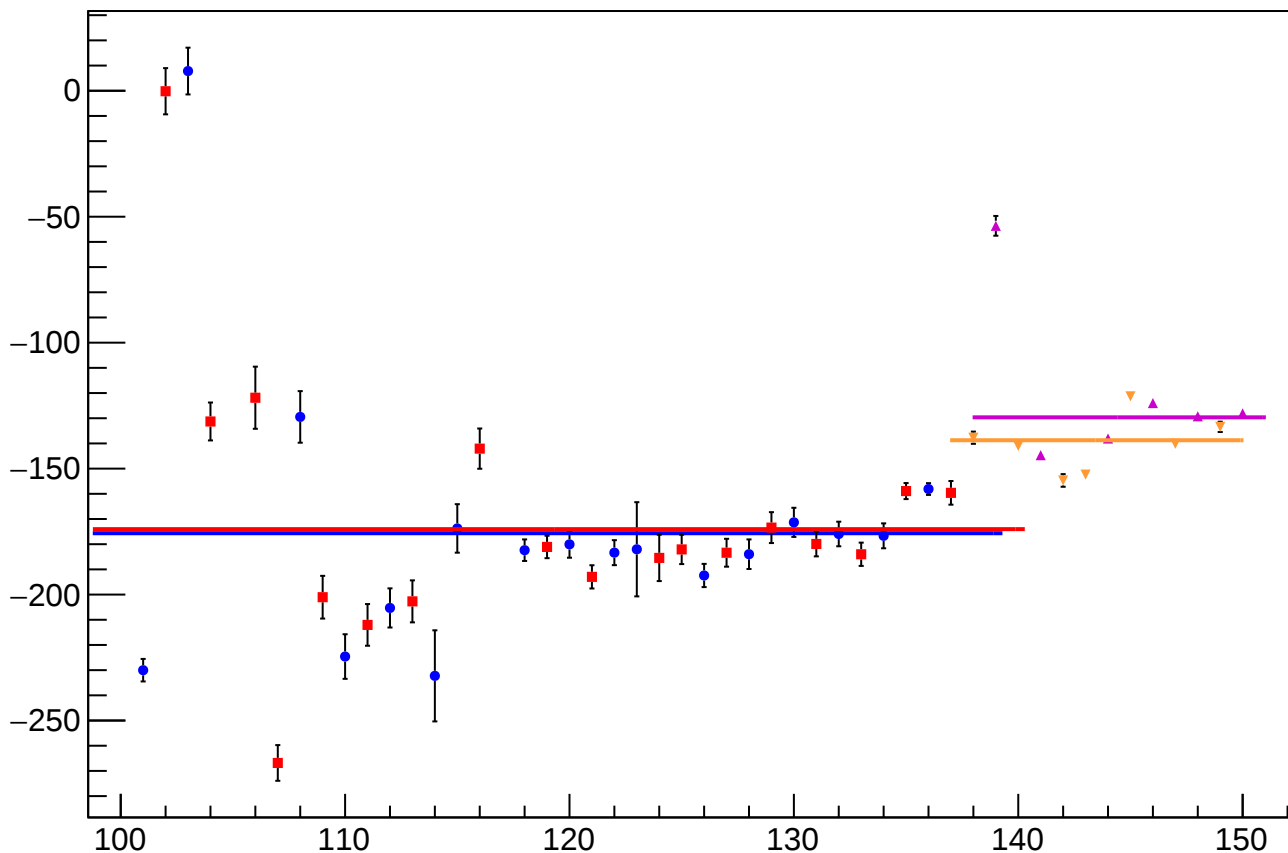
Right:  $-113.912 \pm 1.513$   $\chi^2/\text{NDF}: 409.1/34$

In:  $-137.312 \pm 0.863$   $\chi^2/\text{NDF}: 521.8/22$

Out:  $-138.166 \pm 0.842$   $\chi^2/\text{NDF}: 555.2/24$

All:  $-137.749 \pm 0.603$   $\chi^2/\text{NDF}: 1077.5/47$

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:  $-138.735 \pm 0.767$   $\chi^2/\text{NDF}$ : 194.3/6

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

Left In:  $-129.643 \pm 0.801$   $\chi^2/\text{NDF}$ : 477.3/5

Left:  $-134.391 \pm 0.554$   $\chi^2/\text{NDF}$ : 738.8/12

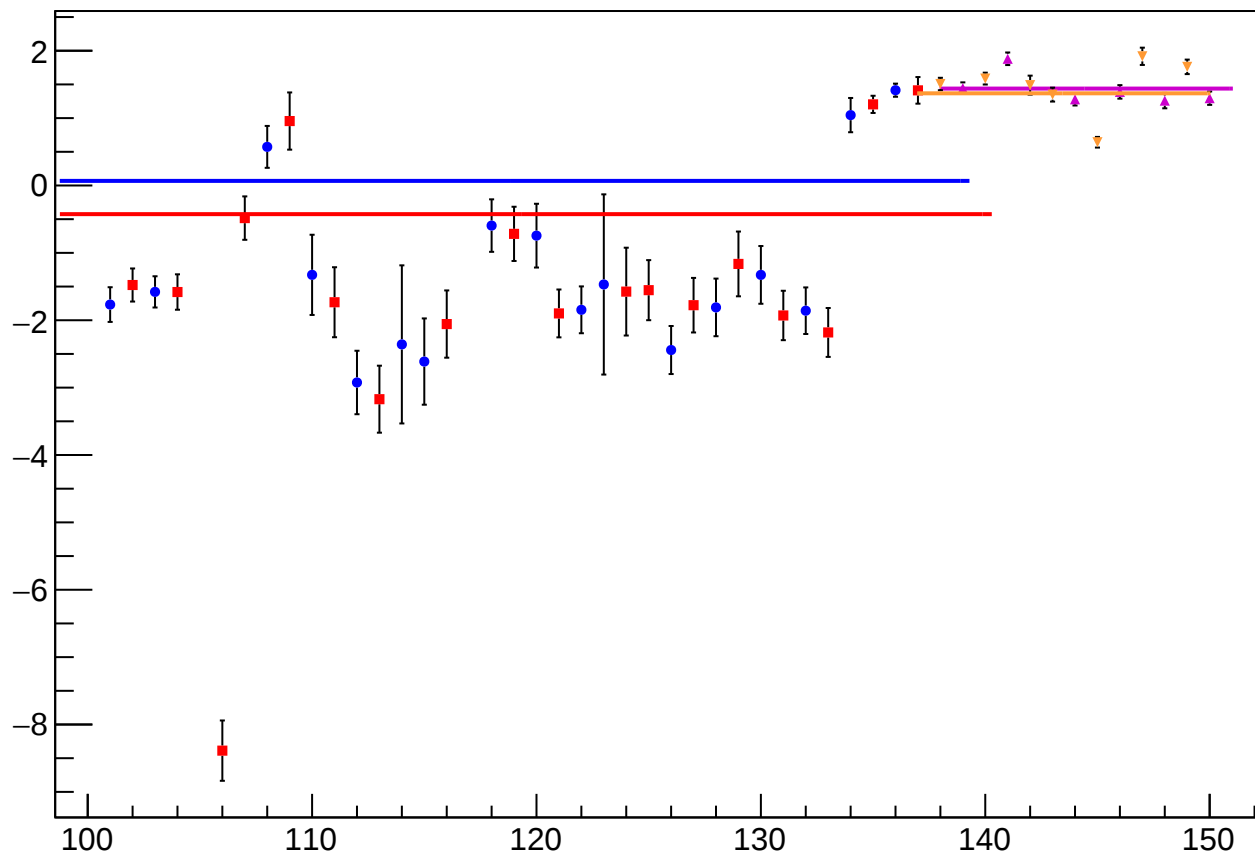
Right:  $-174.891 \pm 0.926$   $\chi^2/\text{NDF}$ : 1396.3/34

In:  $-142.761 \pm 0.678$   $\chi^2/\text{NDF}$ : 2108.9/22

Out:  $-147.291 \pm 0.667$   $\chi^2/\text{NDF}$ : 1411.5/24

All:  $-145.061 \pm 0.475$   $\chi^2/\text{NDF}$ : 3543.0/47

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: 1.368 $\pm$ 0.038  $\chi^2$ /NDF:125.2/6

Right Out: -0.425 $\pm$ 0.071  $\chi^2$ /NDF: 742.9/17

Left In: 1.438 $\pm$ 0.039  $\chi^2$ /NDF:30.2/5

Left: 1.402 $\pm$ 0.027  $\chi^2$ /NDF: 157.0/12

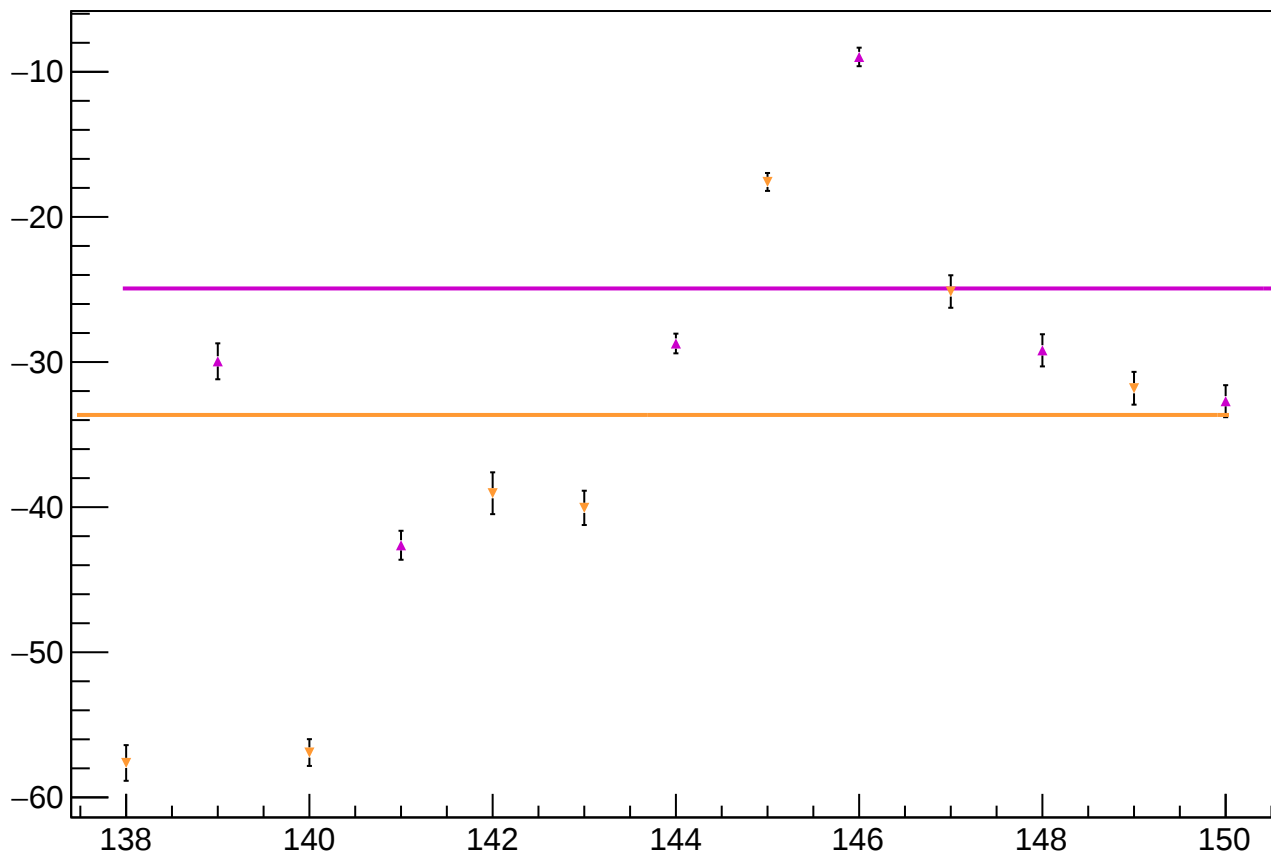
Right: -0.163 $\pm$ 0.049  $\chi^2$ /NDF: 1294.2/34

In: 1.087 $\pm$ 0.034  $\chi^2$ /NDF:866.8/22

Out: 0.973 $\pm$ 0.033  $\chi^2$ /NDF:1362.1/24

All: 1.029 $\pm$ 0.024  $\chi^2$ /NDF: 2234.6/47

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: -33.646+/-0.372  $\chi^2/\text{NDF}$ :1797.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -24.930+/-0.355  $\chi^2/\text{NDF}$ :1050.6/5

Left: -29.093+/-0.257  $\chi^2/\text{NDF}$ : 3134.9/12

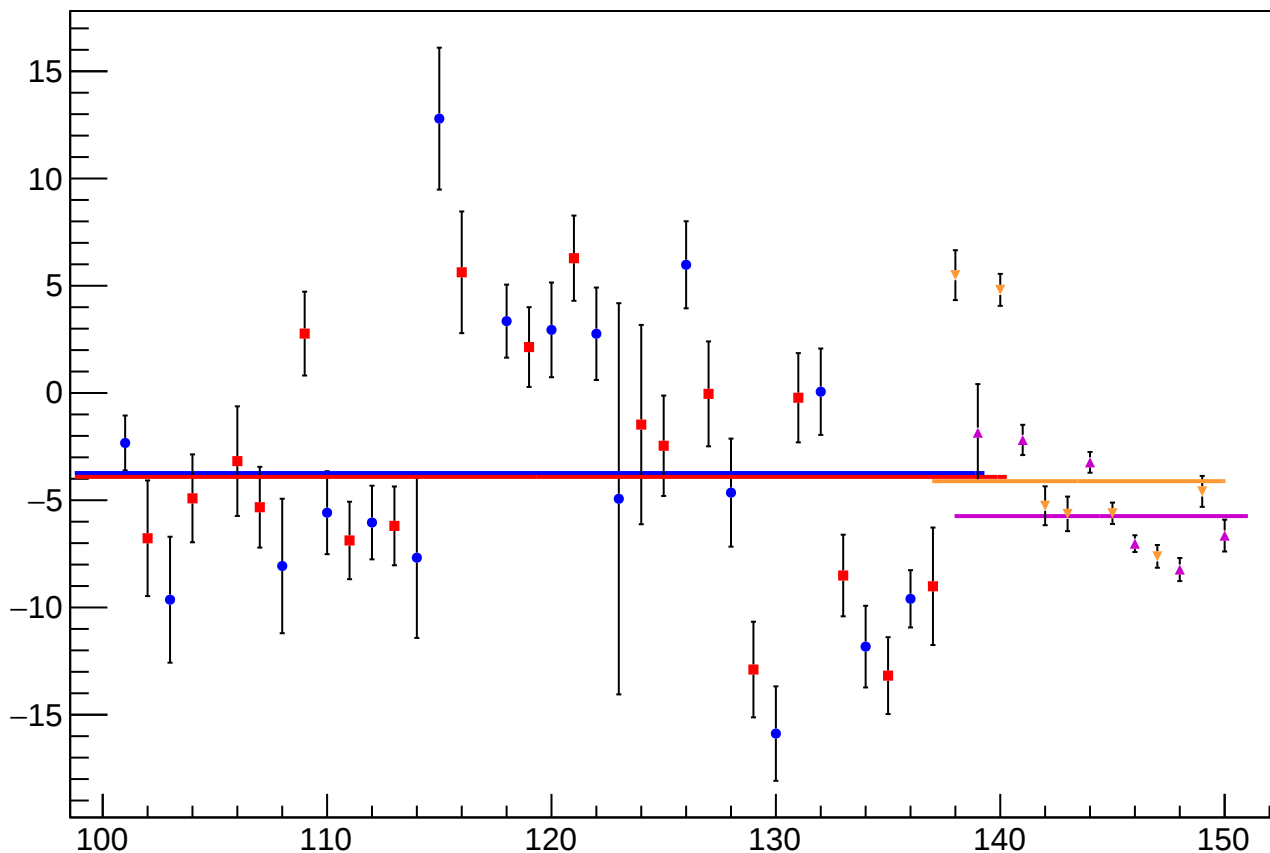
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -24.930+/-0.355  $\chi^2/\text{NDF}$ :1050.6/5

Out: -33.646+/-0.372  $\chi^2/\text{NDF}$ :1797.0/6

All: -29.093+/-0.257  $\chi^2/\text{NDF}$ : 3134.9/12

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:  $-4.110 \pm 0.260$   $\chi^2/\text{NDF}: 269.6/6$

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}: 124.8/17$

Left In:  $-5.740 \pm 0.234$   $\chi^2/\text{NDF}: 88.9/5$

Left:  $-5.012 \pm 0.174$   $\chi^2/\text{NDF}: 380.2/12$

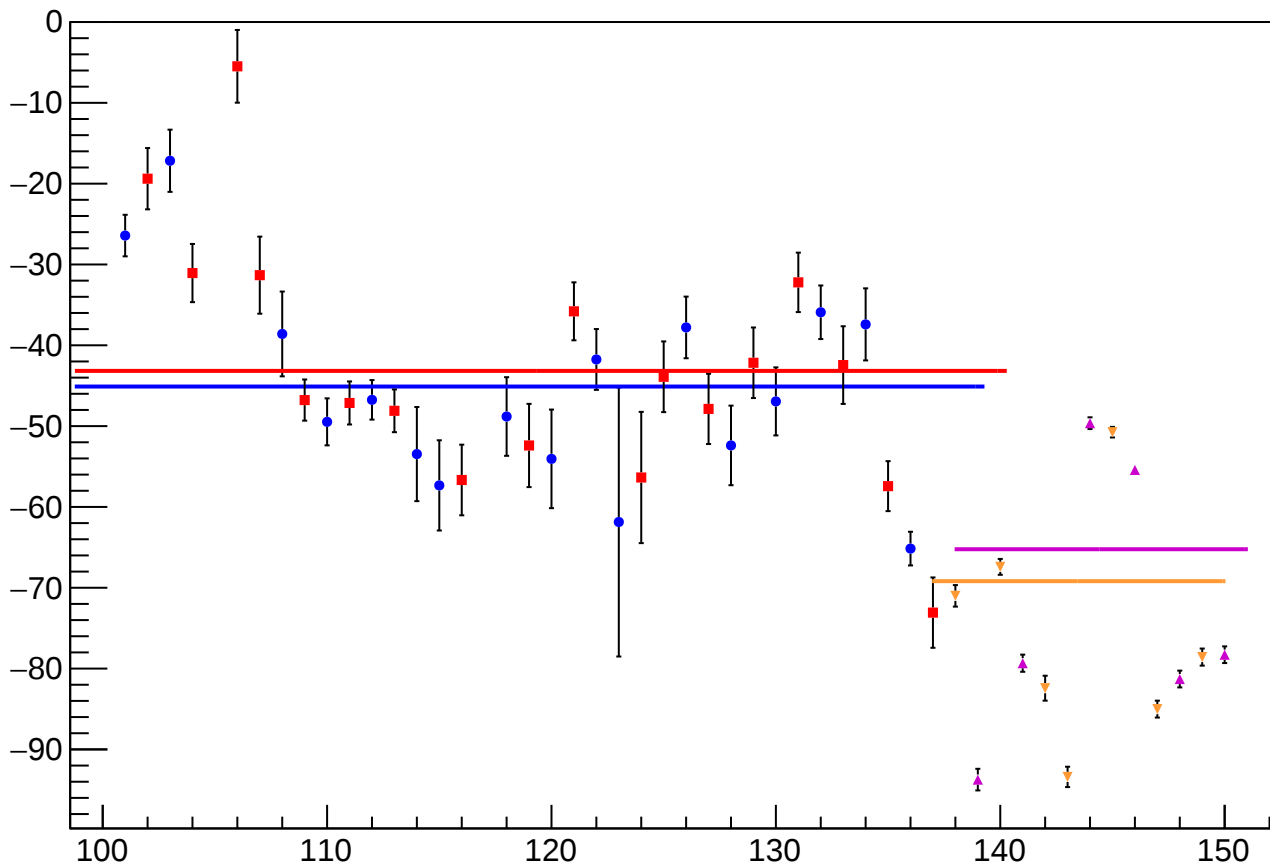
Right:  $-3.820 \pm 0.354$   $\chi^2/\text{NDF}: 290.7/34$

In:  $-5.375 \pm 0.211$   $\chi^2/\text{NDF}: 268.2/22$

Out:  $-4.069 \pm 0.231$   $\chi^2/\text{NDF}: 394.4/24$

All:  $-4.781 \pm 0.156$   $\chi^2/\text{NDF}: 680.0/47$

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-69.184 \pm 0.384$   $\chi^2/\text{NDF}$ : 1547.6/6

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

Left In:  $-65.233 \pm 0.357$   $\chi^2/\text{NDF}$ : 1745.8/5

Left:  $-67.064 \pm 0.261$   $\chi^2/\text{NDF}$ : 3350.2/12

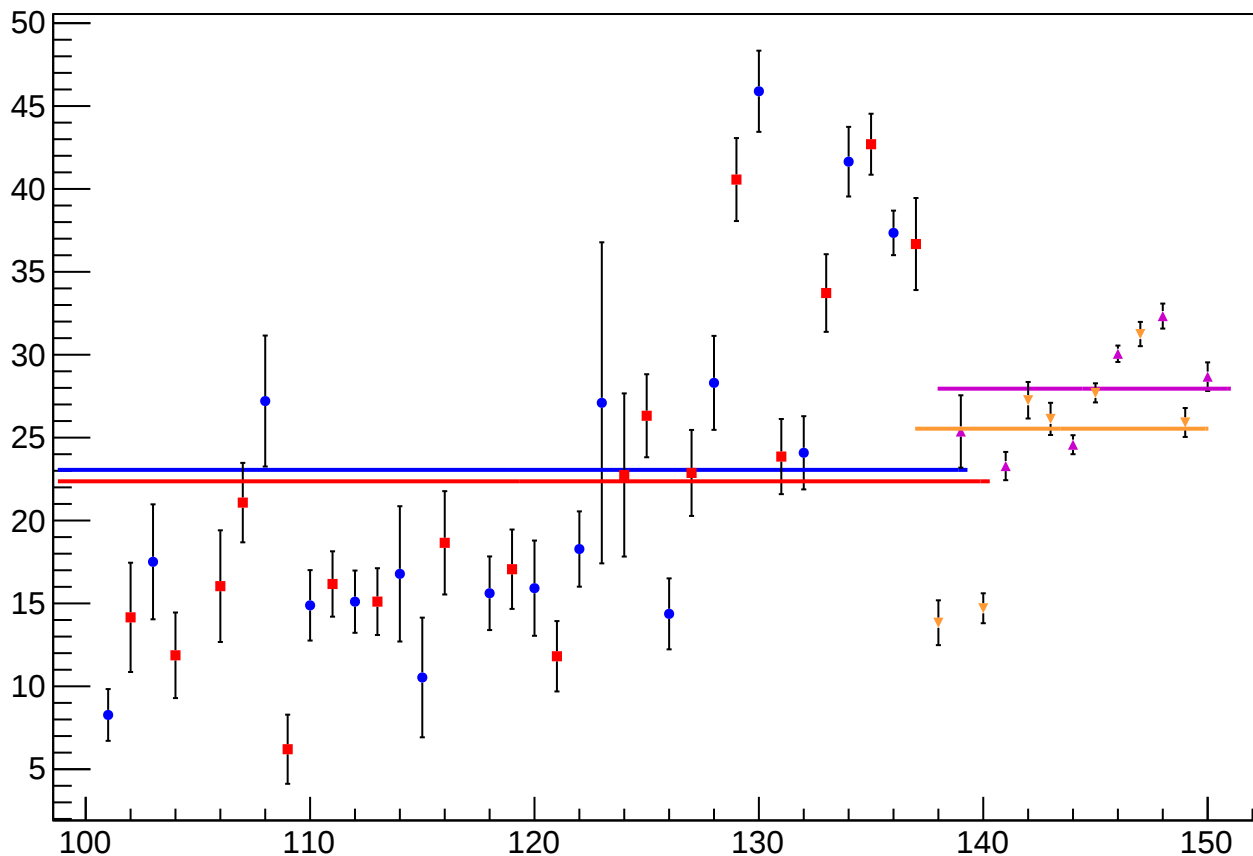
Right:  $-44.131 \pm 0.623$   $\chi^2/\text{NDF}$ : 465.9/34

In:  $-62.407 \pm 0.331$   $\chi^2/\text{NDF}$ : 2423.6/22

Out:  $-65.020 \pm 0.352$   $\chi^2/\text{NDF}$ : 2516.0/24

All:  $-63.633 \pm 0.241$   $\chi^2/\text{NDF}$ : 4968.9/47

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: 25.539 $\pm$ 0.319  $\chi^2$ /NDF:296.8/6

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

Left In: 27.953 $\pm$ 0.291  $\chi^2$ /NDF:118.7/5

Left: 26.856 $\pm$ 0.215  $\chi^2$ /NDF: 446.8/12

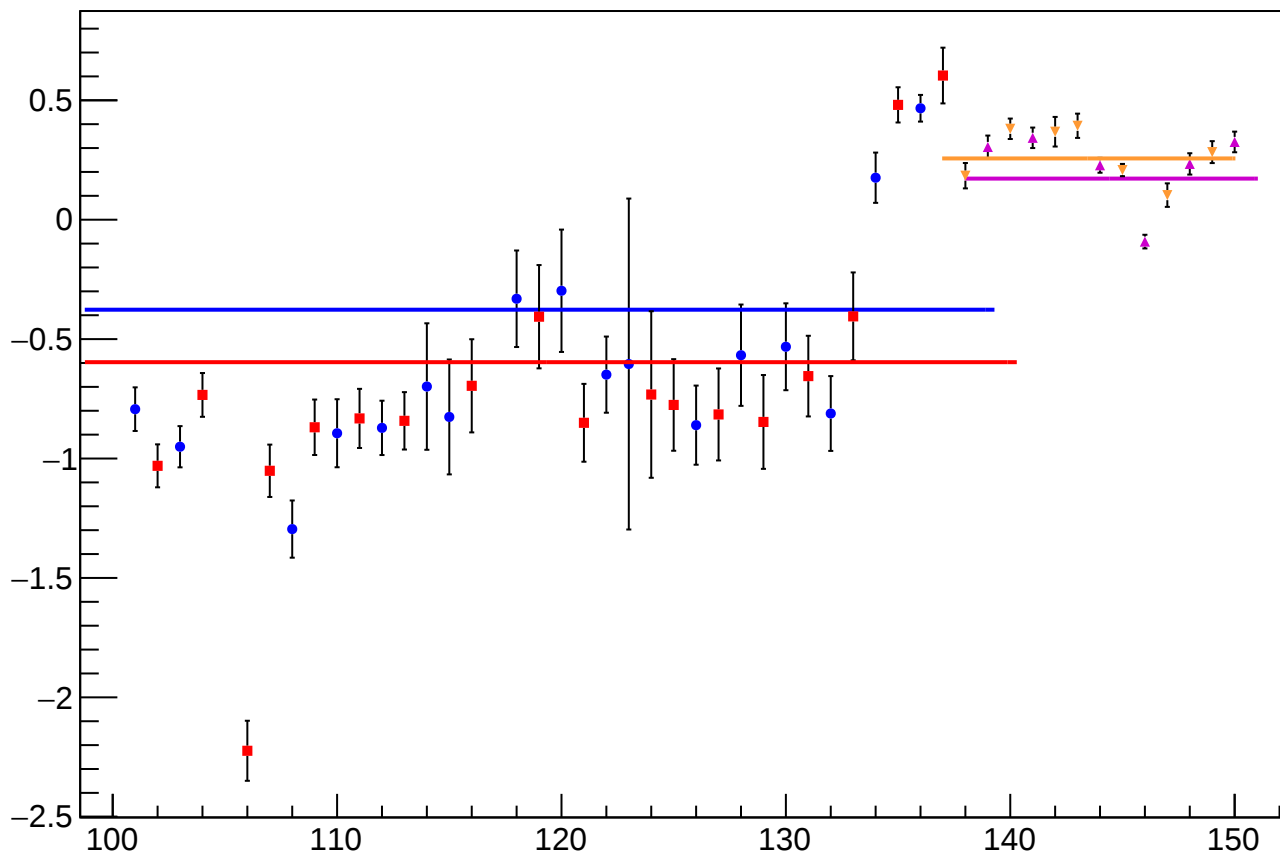
Right: 22.720 $\pm$ 0.399  $\chi^2$ /NDF: 830.6/34

In: 26.903 $\pm$ 0.258  $\chi^2$ /NDF:640.6/22

Out: 24.789 $\pm$ 0.278  $\chi^2$ /NDF:689.0/24

All: 25.927 $\pm$ 0.189  $\chi^2$ /NDF: 1360.7/47

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:  $0.257 \pm 0.016$   $\chi^2/\text{NDF}: 34.4/6$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

Left In:  $0.172 \pm 0.015$   $\chi^2/\text{NDF}: 125.9/5$

Left:  $0.213 \pm 0.011$   $\chi^2/\text{NDF}: 174.9/12$

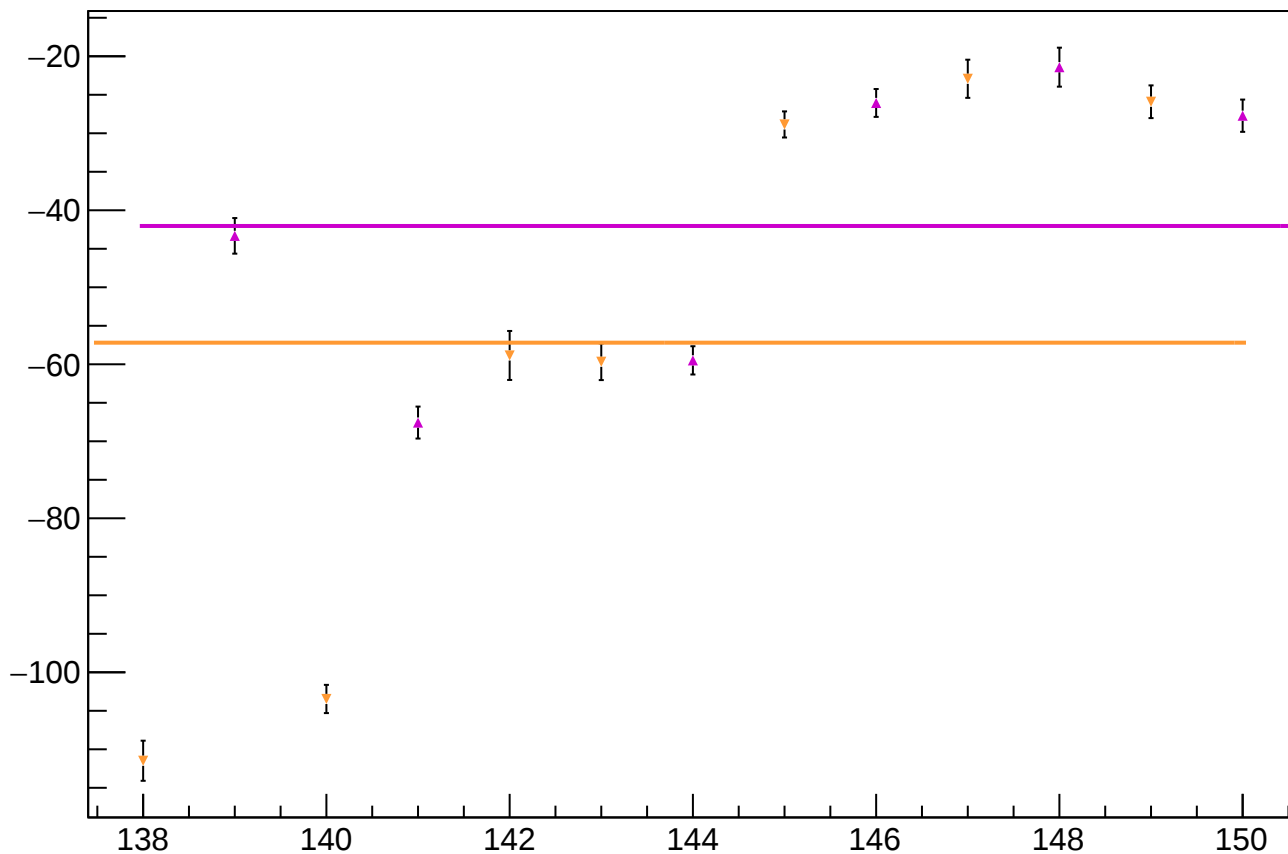
Right:  $-0.486 \pm 0.021$   $\chi^2/\text{NDF}: 1015.2/34$

In:  $0.059 \pm 0.014$   $\chi^2/\text{NDF}: 827.5/22$

Out:  $0.071 \pm 0.014$   $\chi^2/\text{NDF}: 1208.6/24$

All:  $0.065 \pm 0.010$   $\chi^2/\text{NDF}: 2036.5/47$

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: -57.193+/-0.830  $\chi^2/\text{NDF}$ :1761.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -42.039+/-0.844  $\chi^2/\text{NDF}$ :433.2/5

Left: -49.741+/-0.592  $\chi^2/\text{NDF}$ : 2358.5/12

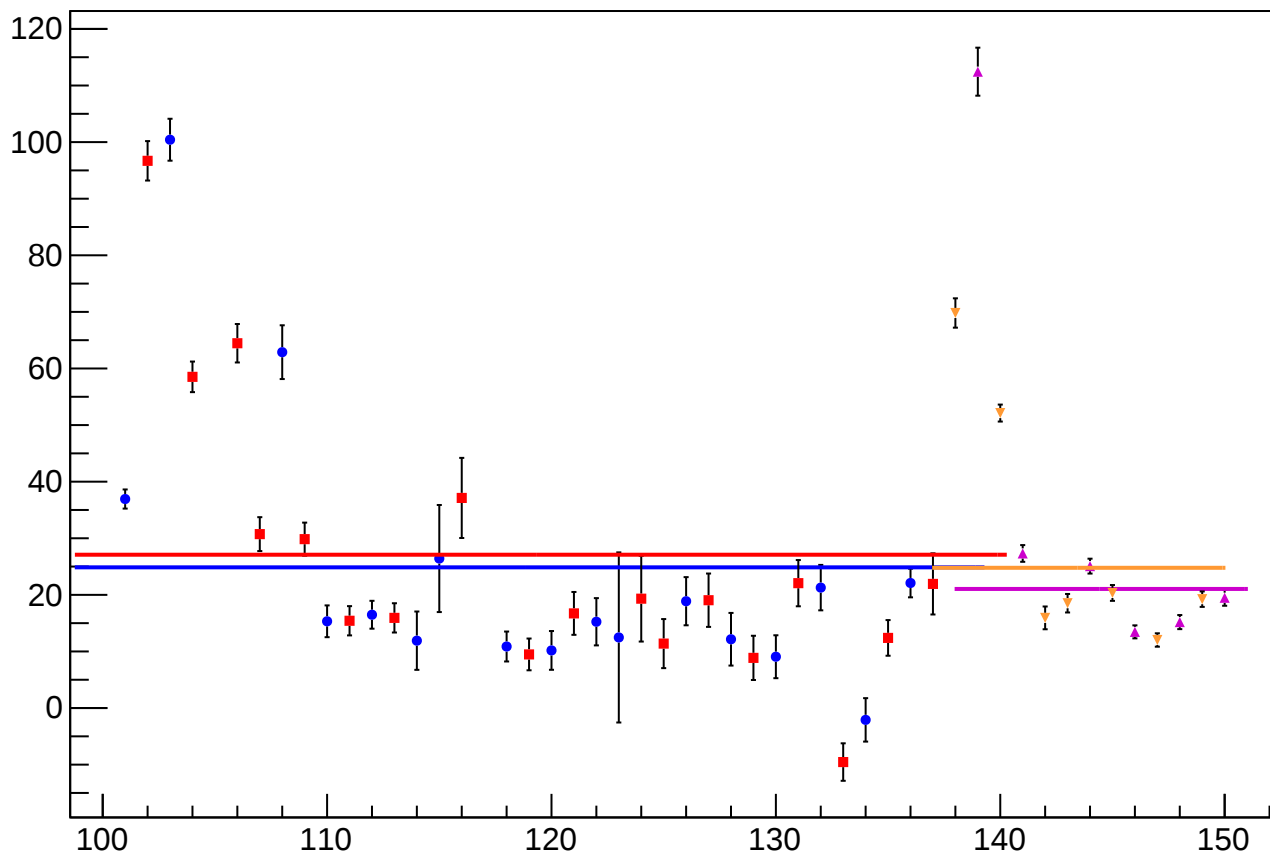
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.039+/-0.844  $\chi^2/\text{NDF}$ :433.2/5

Out: -57.193+/-0.830  $\chi^2/\text{NDF}$ :1761.3/6

All: -49.741+/-0.592  $\chi^2/\text{NDF}$ : 2358.5/12

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 24.863 $\pm$ 0.802  $\chi^2/\text{NDF}$ : 691.0/16

Left Out: 24.782 $\pm$ 0.580  $\chi^2/\text{NDF}$ :810.6/6

Right Out: 27.093 $\pm$ 0.812  $\chi^2/\text{NDF}$ : 930.9/17

Left In: 21.045 $\pm$ 0.578  $\chi^2/\text{NDF}$ :558.4/5

Left: 22.908 $\pm$ 0.409  $\chi^2/\text{NDF}$ : 1389.8/12

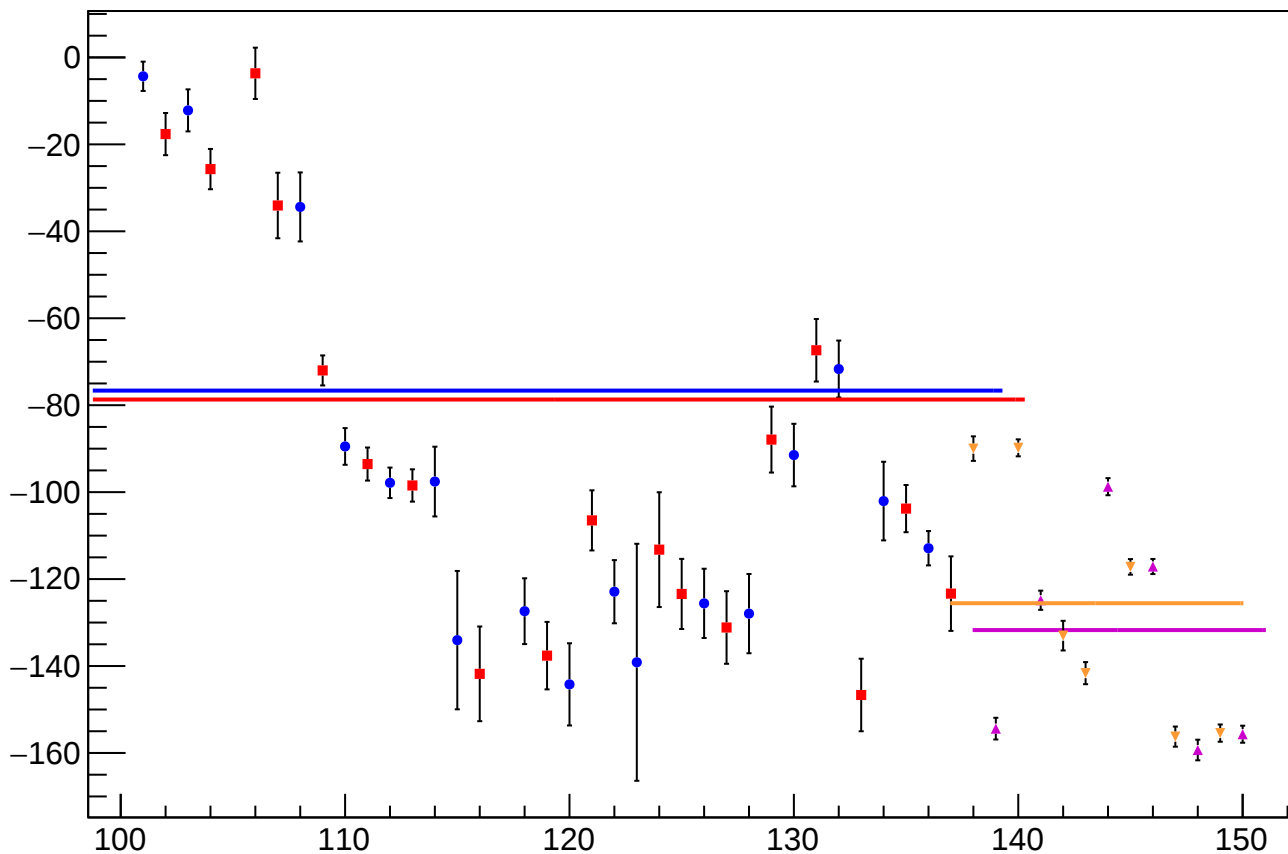
Right: 25.964 $\pm$ 0.570  $\chi^2/\text{NDF}$ : 1625.8/34

In: 22.350 $\pm$ 0.469  $\chi^2/\text{NDF}$ :1264.4/22

Out: 25.563 $\pm$ 0.472  $\chi^2/\text{NDF}$ :1746.9/24

All: 23.947 $\pm$ 0.333  $\chi^2/\text{NDF}$ : 3034.6/47

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}: 1040.7/16$

Left Out:  $-125.548 \pm 0.851$   $\chi^2/\text{NDF}: 962.7/6$

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}: 836.5/17$

Left In:  $-131.731 \pm 0.847$   $\chi^2/\text{NDF}: 728.7/5$

Left:  $-128.653 \pm 0.600$   $\chi^2/\text{NDF}: 1717.9/12$

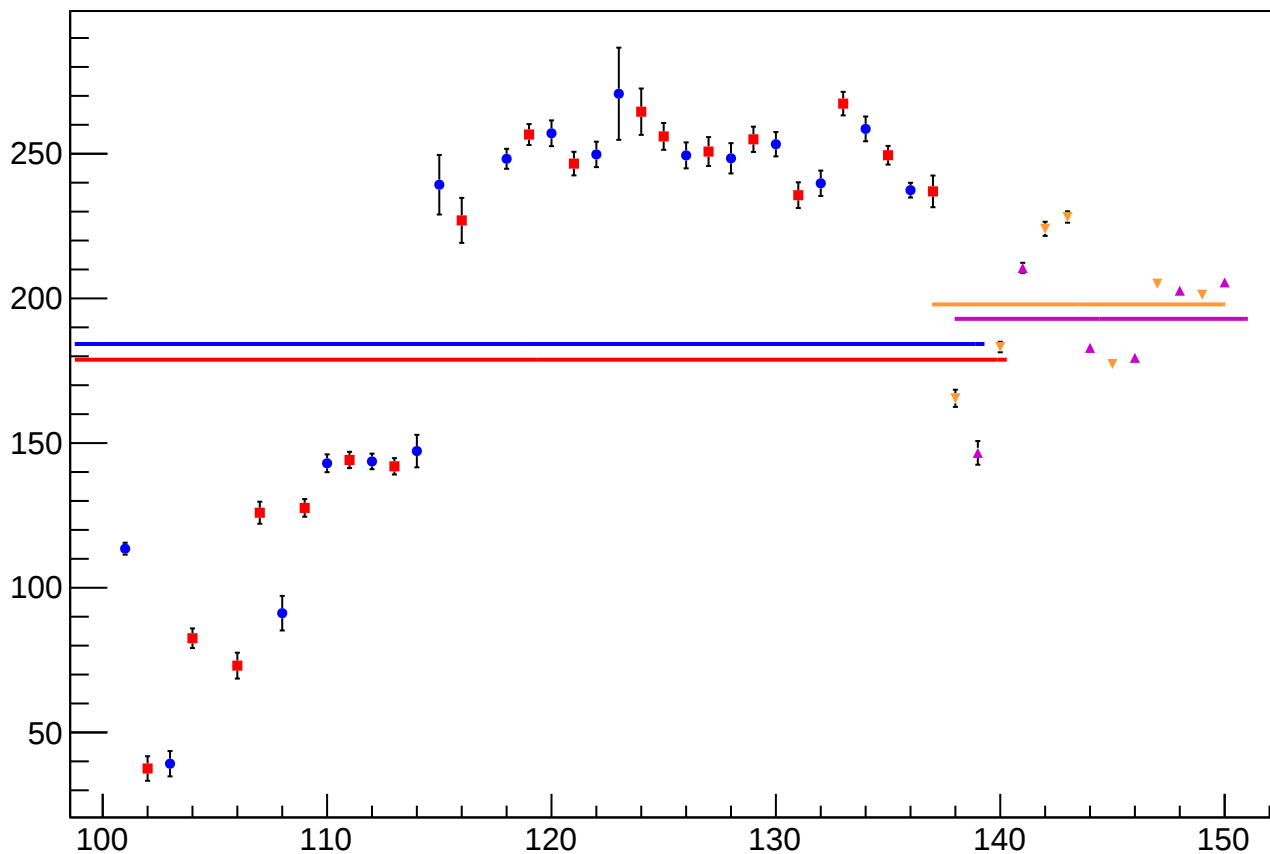
Right:  $-77.709 \pm 0.980$   $\chi^2/\text{NDF}: 1878.3/34$

In:  $-117.189 \pm 0.727$   $\chi^2/\text{NDF}: 2885.4/22$

Out:  $-112.363 \pm 0.721$   $\chi^2/\text{NDF}: 2652.1/24$

All:  $-114.758 \pm 0.512$   $\chi^2/\text{NDF}: 5559.7/47$

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 197.930 $\pm$ 0.710  $\chi^2$ /NDF: 725.0/6

Right Out: 178.822 $\pm$ 0.926  $\chi^2$ /NDF: 6171.0/17

Left In: 192.941 $\pm$ 0.710  $\chi^2$ /NDF: 447.0/5

Left: 195.434 $\pm$ 0.502  $\chi^2$ /NDF: 1196.6/12

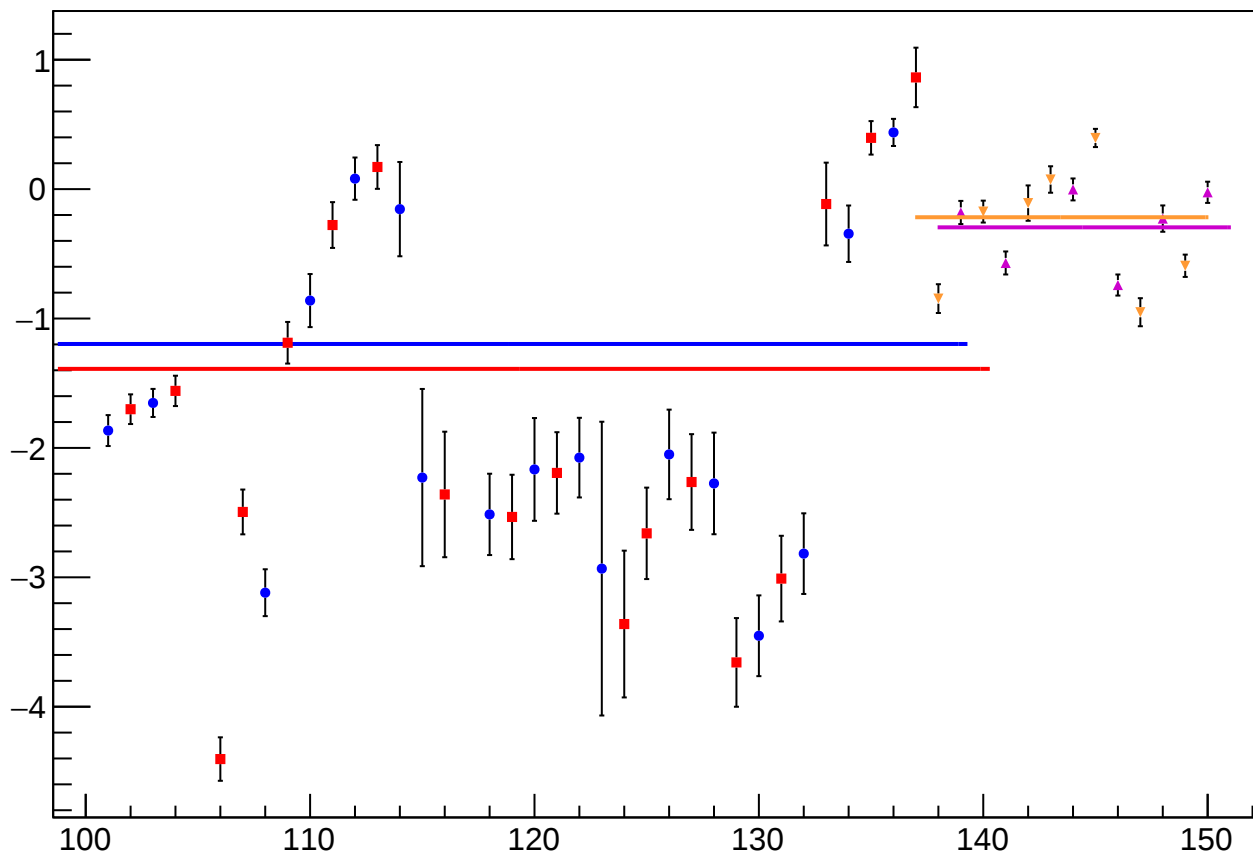
Right: 181.565 $\pm$ 0.651  $\chi^2$ /NDF: 11576.9/34

In: 189.675 $\pm$ 0.561  $\chi^2$ /NDF: 5891.9/22

Out: 190.847 $\pm$ 0.564  $\chi^2$ /NDF: 7164.1/24

All: 190.259 $\pm$ 0.398  $\chi^2$ /NDF: 13058.1/47

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:  $-0.217 \pm 0.036$   $\chi^2/\text{NDF}$ : 181.6/6

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

Left In:  $-0.295 \pm 0.036$   $\chi^2/\text{NDF}$ : 64.5/5

Left:  $-0.256 \pm 0.025$   $\chi^2/\text{NDF}$ : 248.5/12

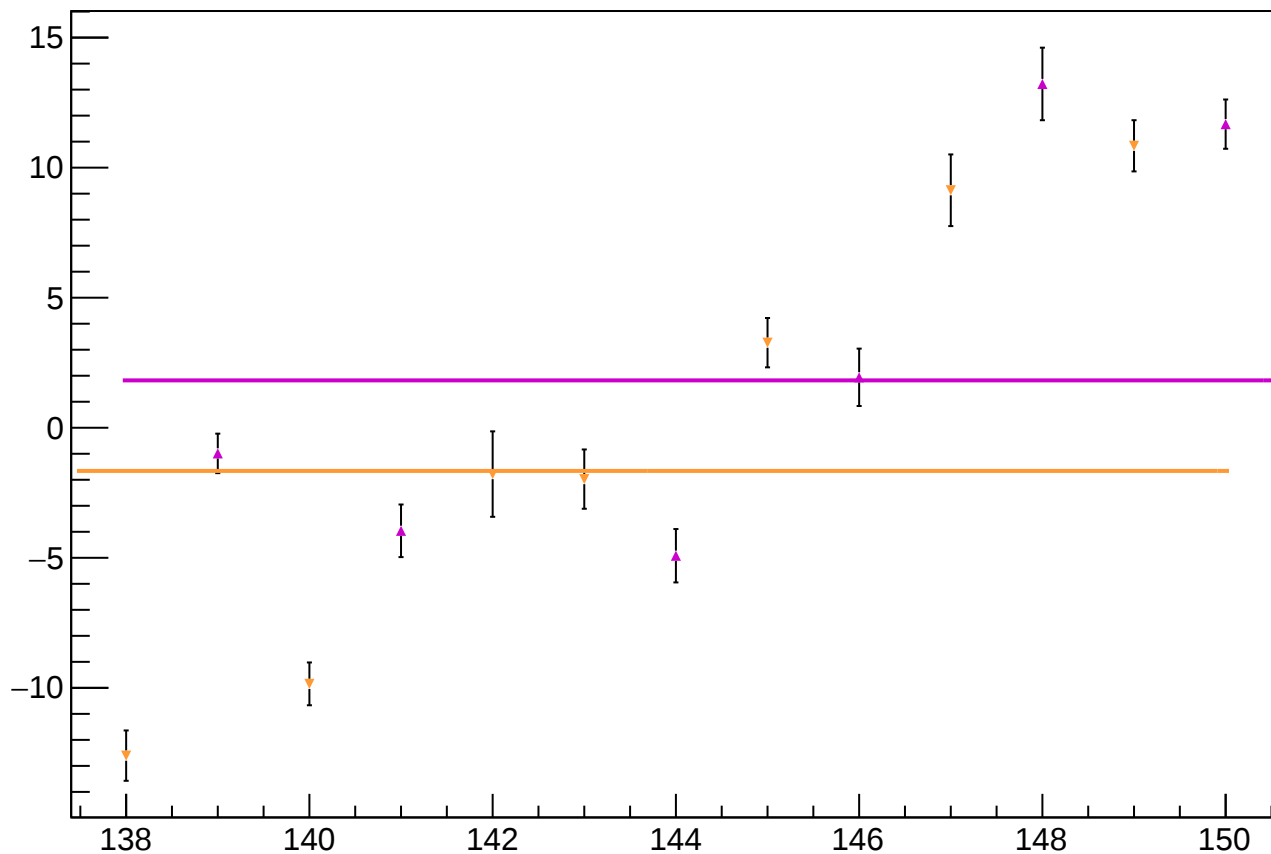
Right:  $-1.297 \pm 0.033$   $\chi^2/\text{NDF}$ : 1552.0/34

In:  $-0.615 \pm 0.029$   $\chi^2/\text{NDF}$ : 912.4/22

Out:  $-0.655 \pm 0.028$   $\chi^2/\text{NDF}$ : 1509.3/24

All:  $-0.635 \pm 0.020$   $\chi^2/\text{NDF}$ : 2422.8/47

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: -1.660+/-0.397  $\chi^2/\text{NDF}$ :476.7/6

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

Left In: 1.821+/-0.404  $\chi^2/\text{NDF}$ :264.5/5

Left: 0.047+/-0.283  $\chi^2/\text{NDF}$ : 779.0/12

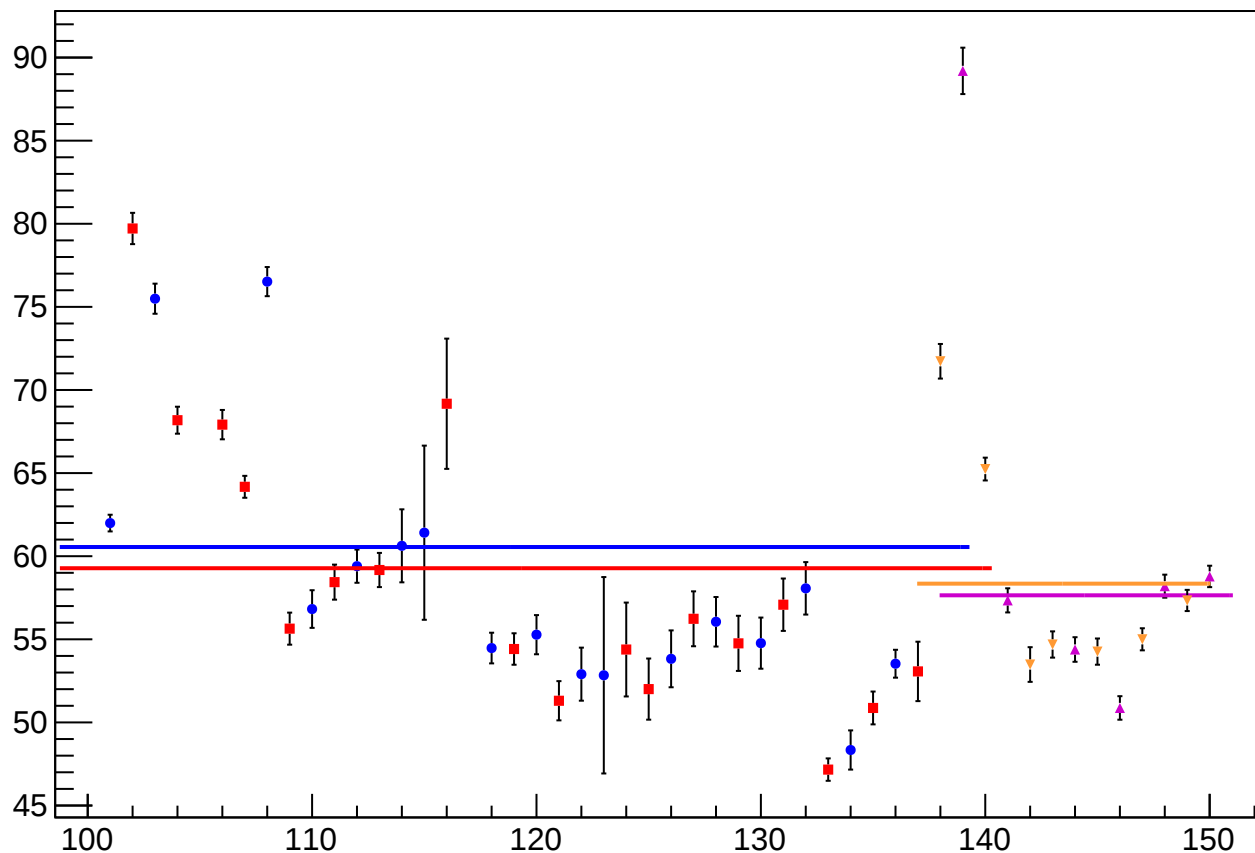
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.821+/-0.404  $\chi^2/\text{NDF}$ :264.5/5

Out: -1.660+/-0.397  $\chi^2/\text{NDF}$ :476.7/6

All: 0.047+/-0.283  $\chi^2/\text{NDF}$ : 779.0/12

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 60.552 $\pm$ 0.262  $\chi^2$ /NDF: 931.0/16

Left Out: 58.348 $\pm$ 0.290  $\chi^2$ /NDF:364.0/6

Right Out: 59.276 $\pm$ 0.249  $\chi^2$ /NDF: 1274.8/17

Left In: 57.647 $\pm$ 0.305  $\chi^2$ /NDF:625.8/5

Left: 58.016 $\pm$ 0.210  $\chi^2$ /NDF: 992.5/12

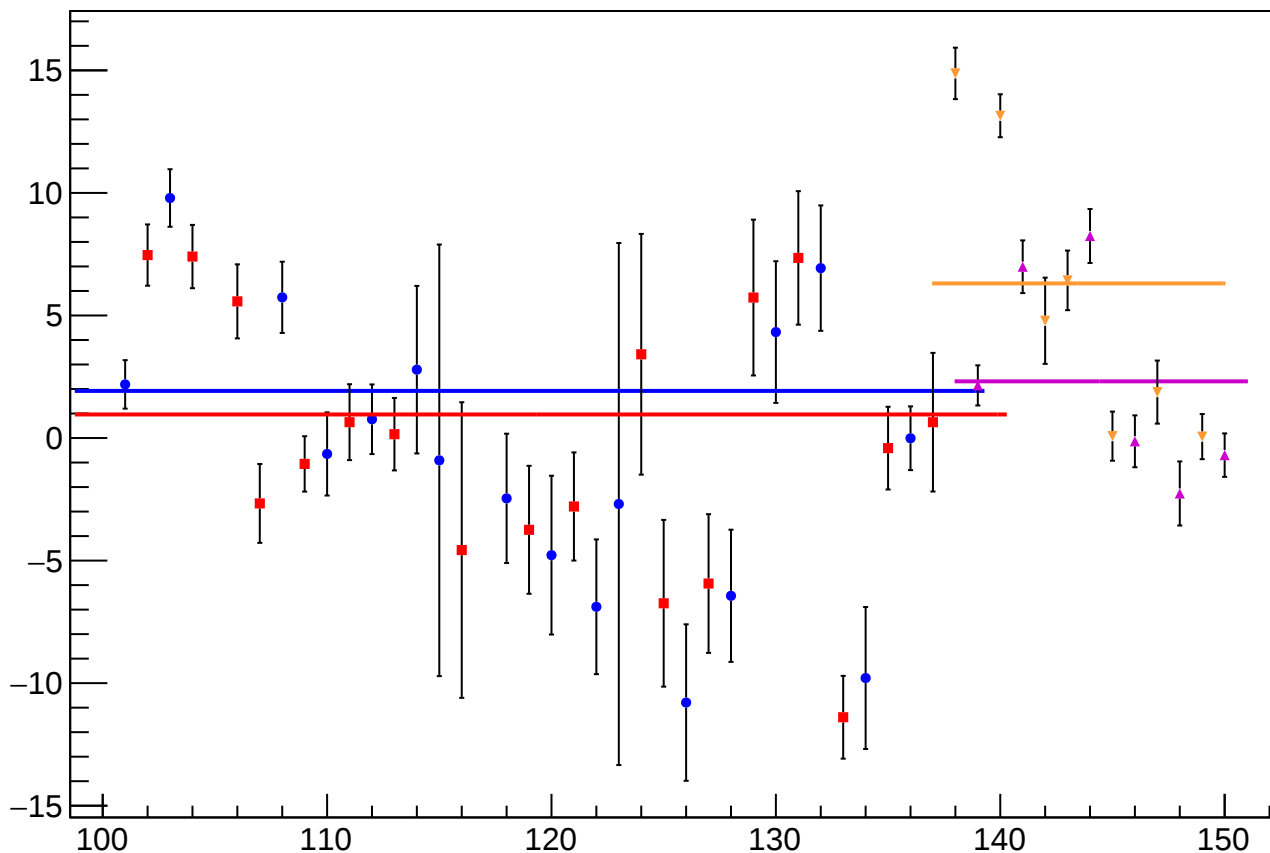
Right: 59.882 $\pm$ 0.180  $\chi^2$ /NDF: 2218.3/34

In: 59.321 $\pm$ 0.199  $\chi^2$ /NDF:1609.0/22

Out: 58.882 $\pm$ 0.189  $\chi^2$ /NDF:1644.6/24

All: 59.091 $\pm$ 0.137  $\chi^2$ /NDF: 3256.2/47

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:  $6.308 \pm 0.409$   $\chi^2/\text{NDF}: 224.9/6$

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}: 150.1/17$

Left In:  $2.313 \pm 0.410$   $\chi^2/\text{NDF}: 77.2/5$

Left:  $4.319 \pm 0.290$   $\chi^2/\text{NDF}: 349.6/12$

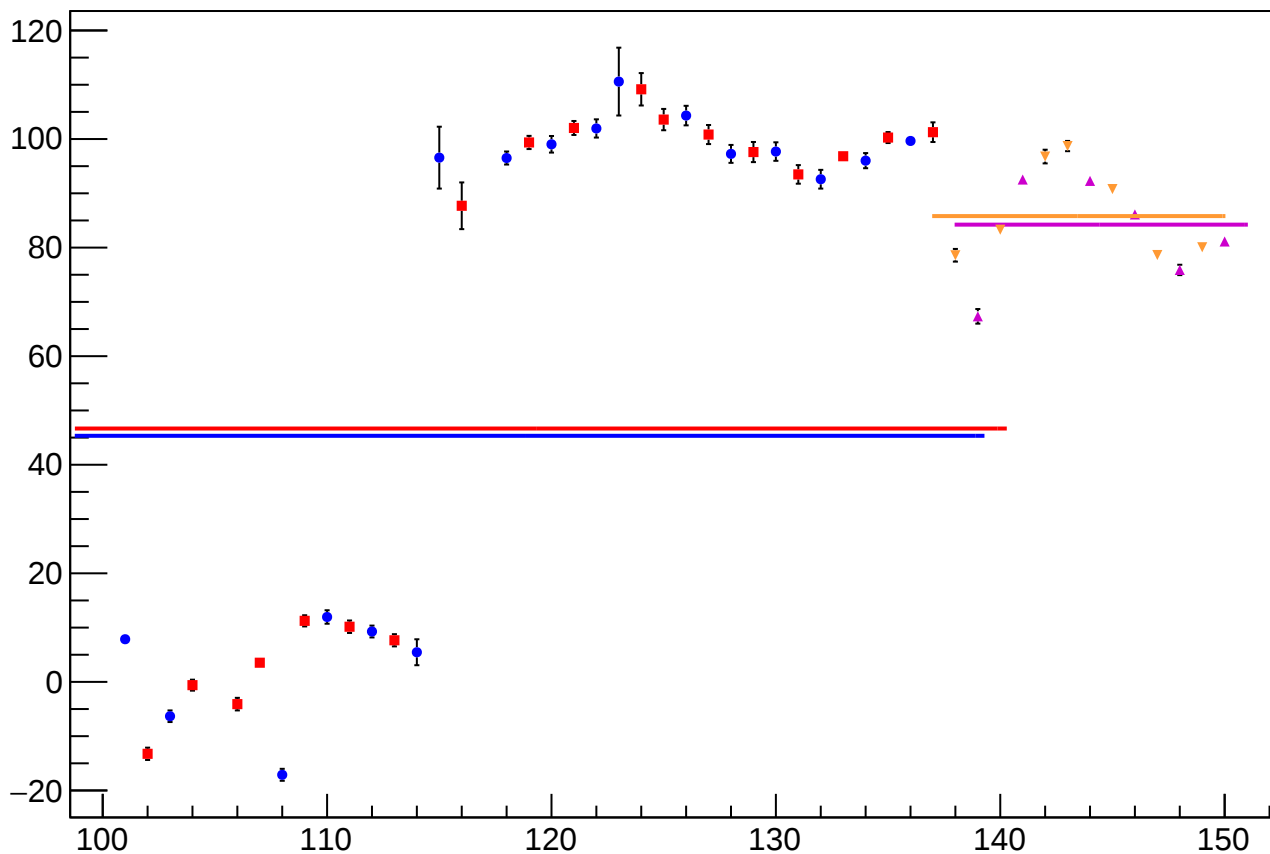
Right:  $1.411 \pm 0.313$   $\chi^2/\text{NDF}: 273.5/34$

In:  $2.139 \pm 0.306$   $\chi^2/\text{NDF}: 198.6/22$

Out:  $3.769 \pm 0.296$   $\chi^2/\text{NDF}: 456.3/24$

All:  $2.980 \pm 0.213$   $\chi^2/\text{NDF}: 669.6/47$

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: 85.806 $\pm$ 0.352  $\chi^2$ /NDF:458.5/6

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

Left In: 84.230 $\pm$ 0.368  $\chi^2$ /NDF:432.0/5

Left: 85.054 $\pm$ 0.254  $\chi^2$ /NDF: 900.2/12

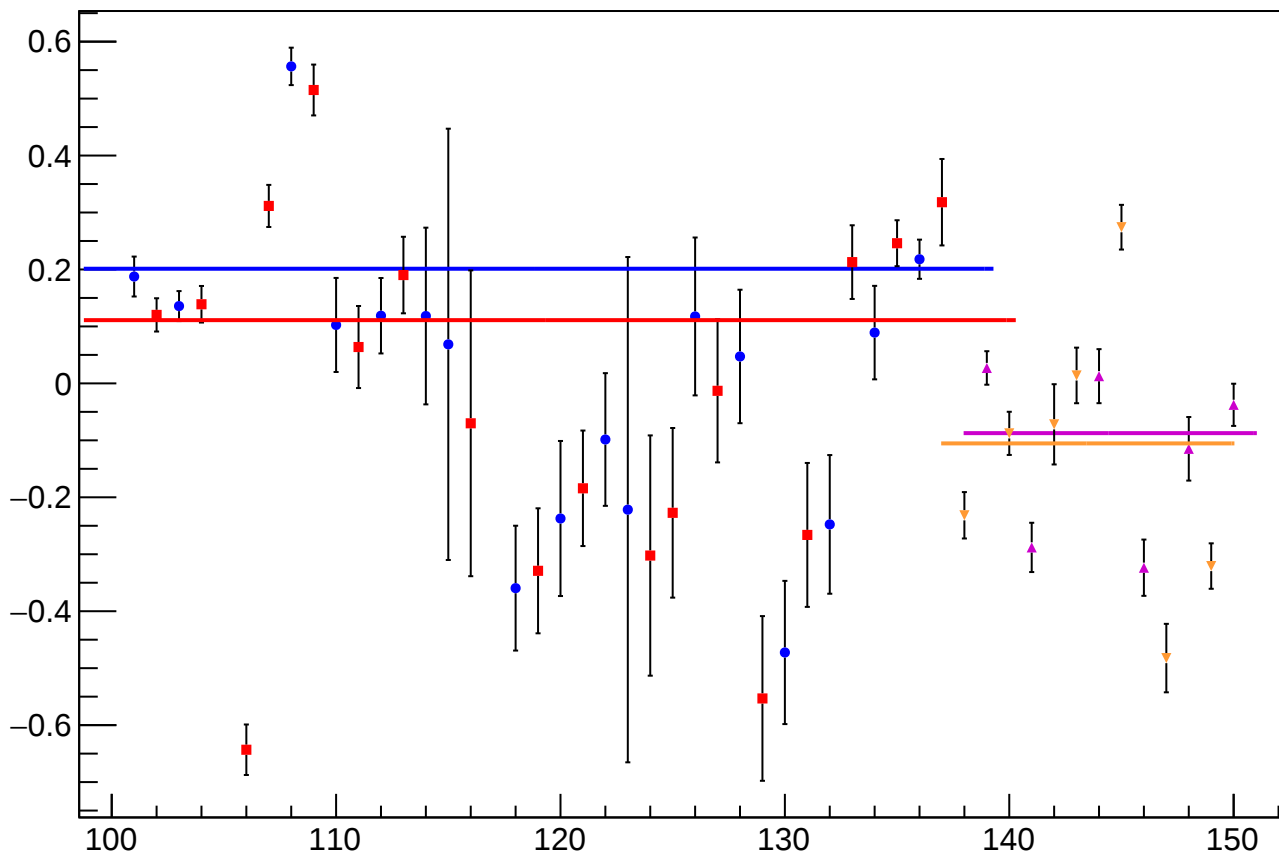
Right: 46.031 $\pm$ 0.210  $\chi^2$ /NDF: 52913.9/34

In: 61.090 $\pm$ 0.234  $\chi^2$ /NDF:32089.8/22

Out: 62.570 $\pm$ 0.224  $\chi^2$ /NDF:35713.7/24

All: 61.863 $\pm$ 0.162  $\chi^2$ /NDF: 67824.3/47

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:  $-0.105 \pm 0.017$   $\chi^2/\text{NDF}$ : 178.0/6

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

Left In:  $-0.087 \pm 0.017$   $\chi^2/\text{NDF}$ : 66.0/5

Left:  $-0.096 \pm 0.012$   $\chi^2/\text{NDF}$ : 244.6/12

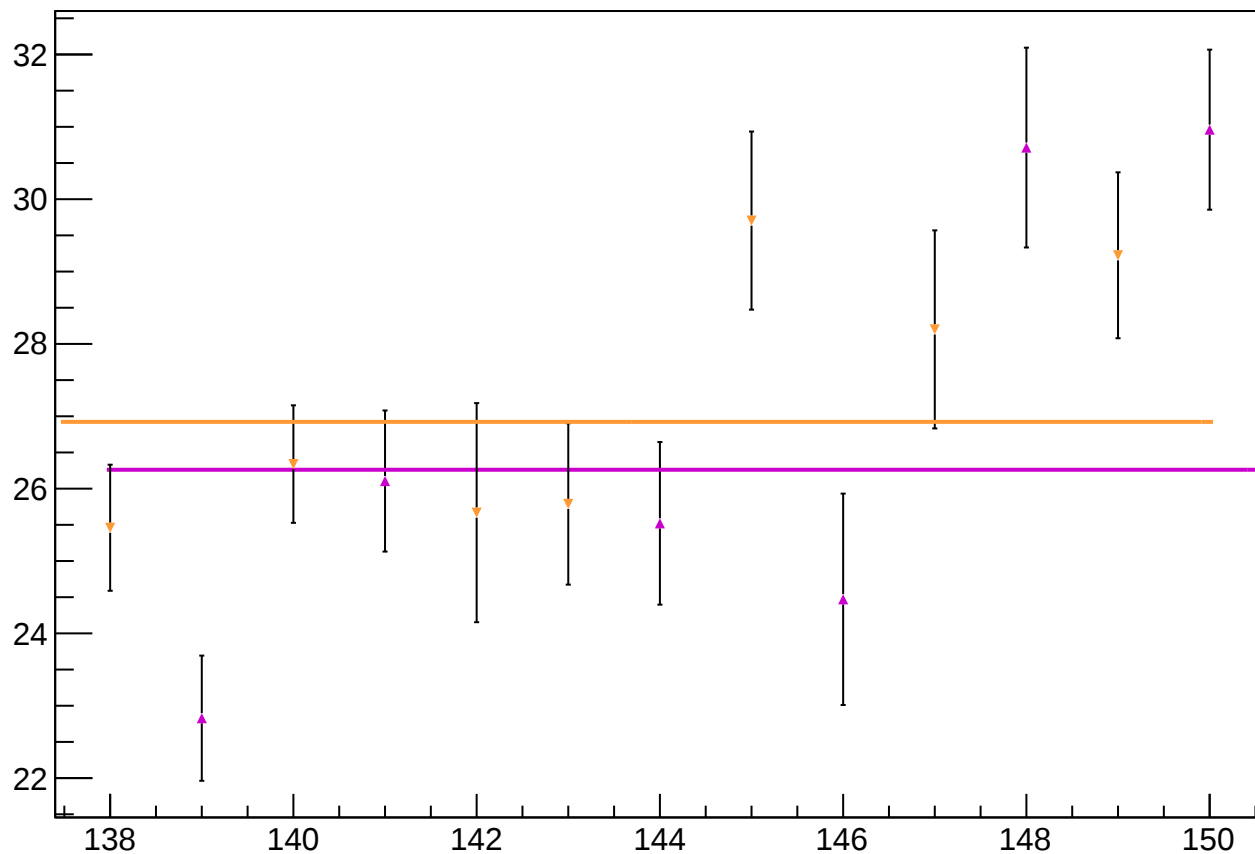
Right:  $0.153 \pm 0.010$   $\chi^2/\text{NDF}$ : 728.8/34

In:  $0.082 \pm 0.011$   $\chi^2/\text{NDF}$ : 458.5/22

Out:  $0.030 \pm 0.010$   $\chi^2/\text{NDF}$ : 769.1/24

All:  $0.055 \pm 0.007$   $\chi^2/\text{NDF}$ : 1239.7/47

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: 26.923+/-0.407  $\chi^2/\text{NDF}$ :15.1/6

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

Left In: 26.261+/-0.448  $\chi^2/\text{NDF}$ :46.2/5

Left: 26.623+/-0.301  $\chi^2/\text{NDF}$ : 62.4/12

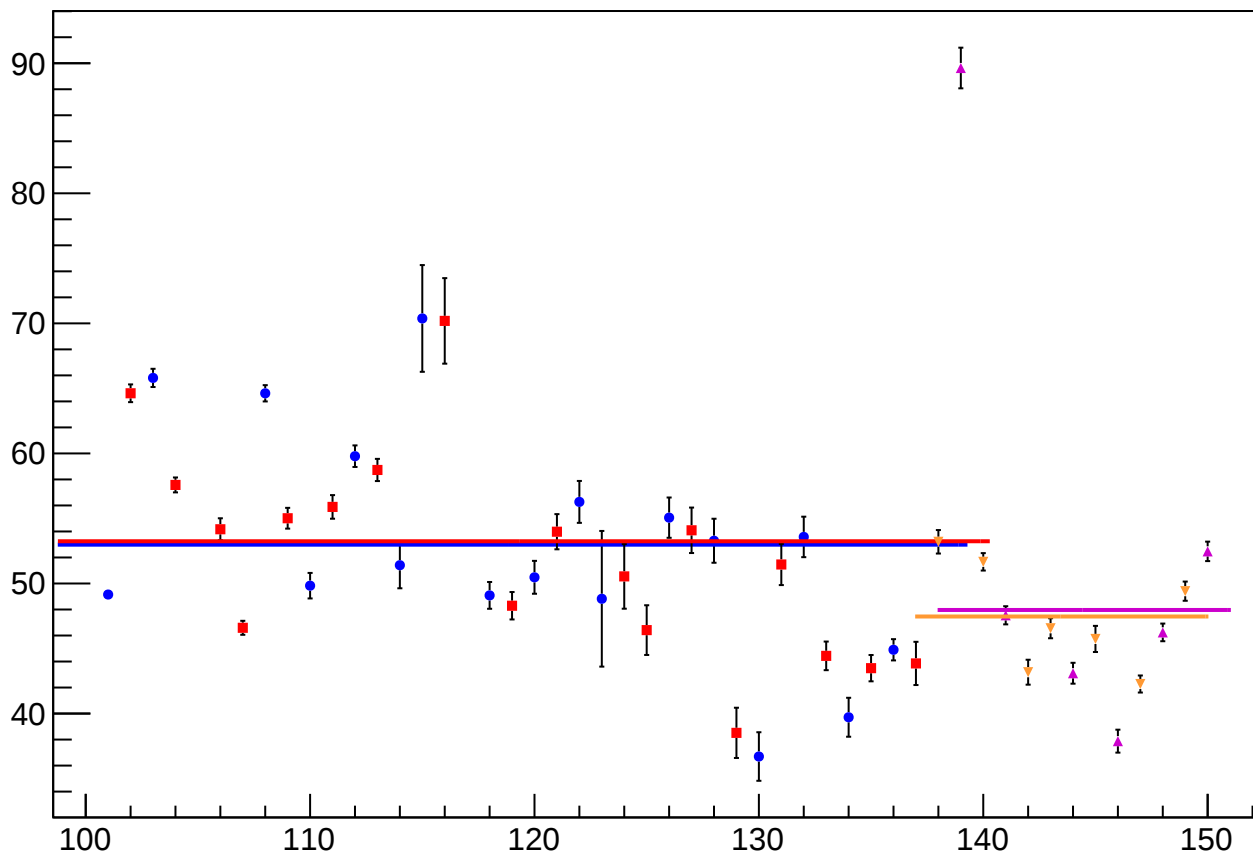
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 26.261+/-0.448  $\chi^2/\text{NDF}$ :46.2/5

Out: 26.923+/-0.407  $\chi^2/\text{NDF}$ :15.1/6

All: 26.623+/-0.301  $\chi^2/\text{NDF}$ : 62.4/12

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: 47.462 $\pm$ 0.296  $\chi^2$ /NDF:173.8/6

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

Left In: 47.964 $\pm$ 0.329  $\chi^2$ /NDF:921.1/5

Left: 47.687 $\pm$ 0.220  $\chi^2$ /NDF: 1096.1/12

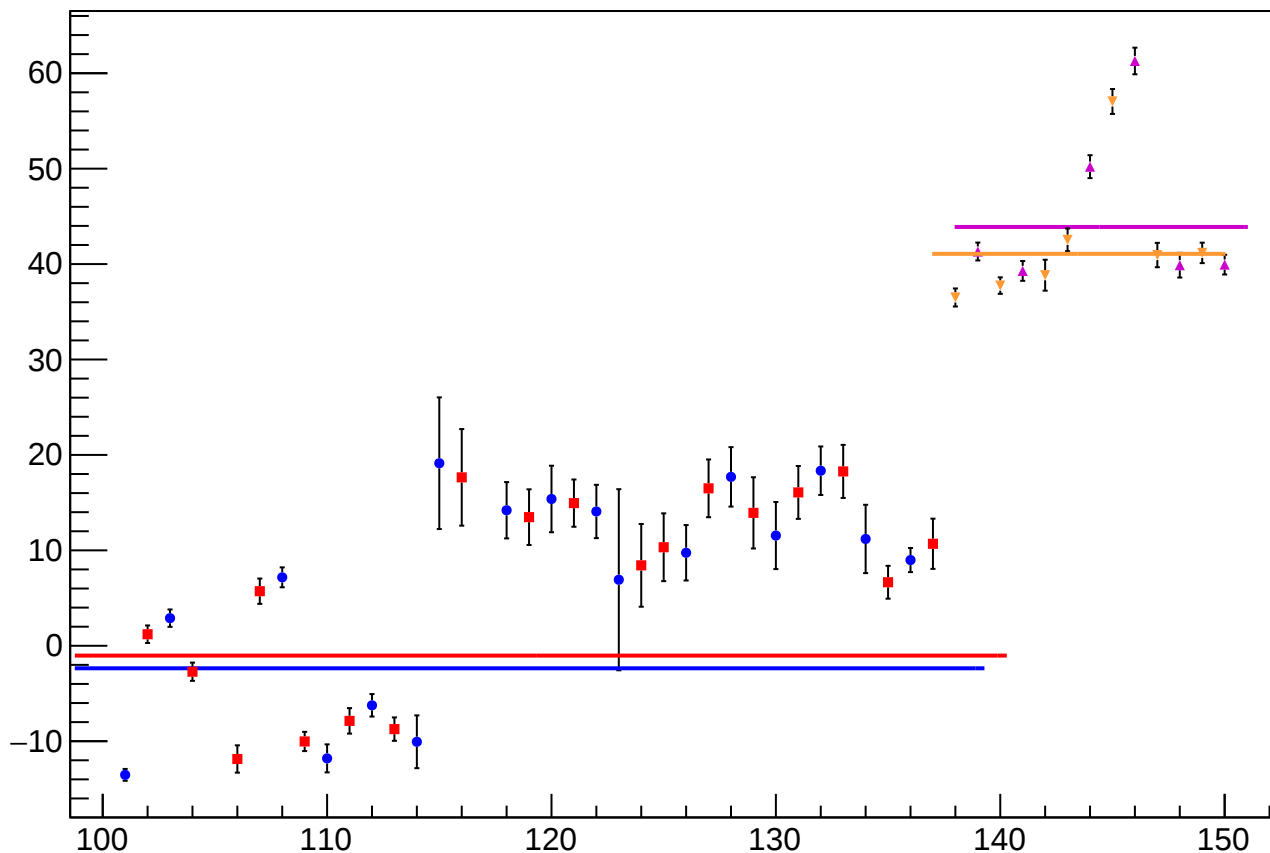
Right: 53.106 $\pm$ 0.154  $\chi^2$ /NDF: 2055.0/34

In: 51.526 $\pm$ 0.177  $\chi^2$ /NDF:2284.6/22

Out: 51.104 $\pm$ 0.180  $\chi^2$ /NDF:1270.0/24

All: 51.319 $\pm$ 0.126  $\chi^2$ /NDF: 3557.4/47

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:  $41.072 \pm 0.422$   $\chi^2/\text{NDF}$ : 191.4/6

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

Left In:  $43.890 \pm 0.456$   $\chi^2/\text{NDF}$ : 234.5/5

Left:  $42.372 \pm 0.310$   $\chi^2/\text{NDF}$ : 446.4/12

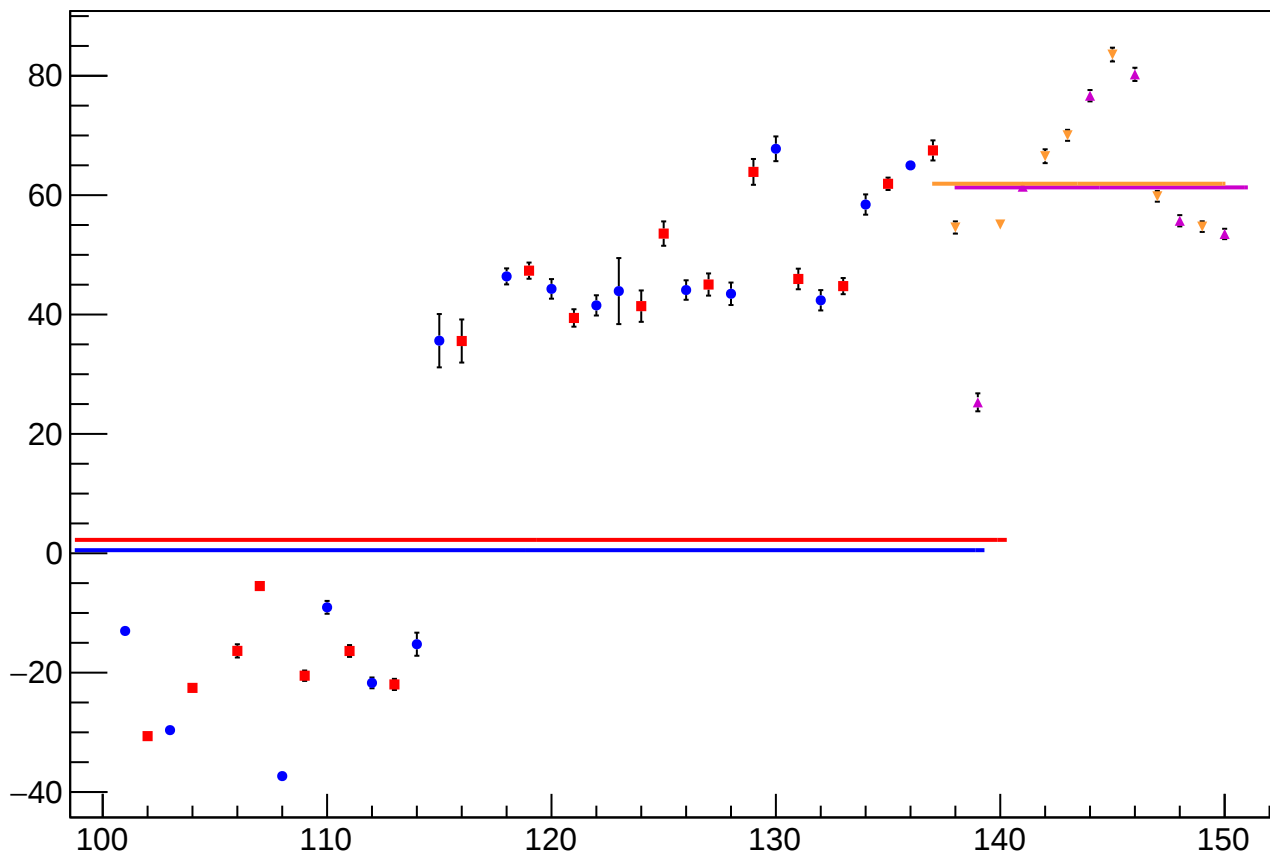
Right:  $-1.723 \pm 0.263$   $\chi^2/\text{NDF}$ : 1351.9/34

In:  $15.648 \pm 0.285$   $\chi^2/\text{NDF}$ : 7353.4/22

Out:  $17.834 \pm 0.283$   $\chi^2/\text{NDF}$ : 6191.3/24

All:  $16.749 \pm 0.200$   $\chi^2/\text{NDF}$ : 13574.4/47

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: 61.918 $\pm$ 0.361  $\chi^2$ /NDF:637.2/6

Right Out: 2.246 $\pm$ 0.267  $\chi^2$ /NDF: 15377.0/17

Left In: 61.299 $\pm$ 0.400  $\chi^2$ /NDF:1240.6/5

Left: 61.640 $\pm$ 0.268  $\chi^2$ /NDF: 1879.1/12

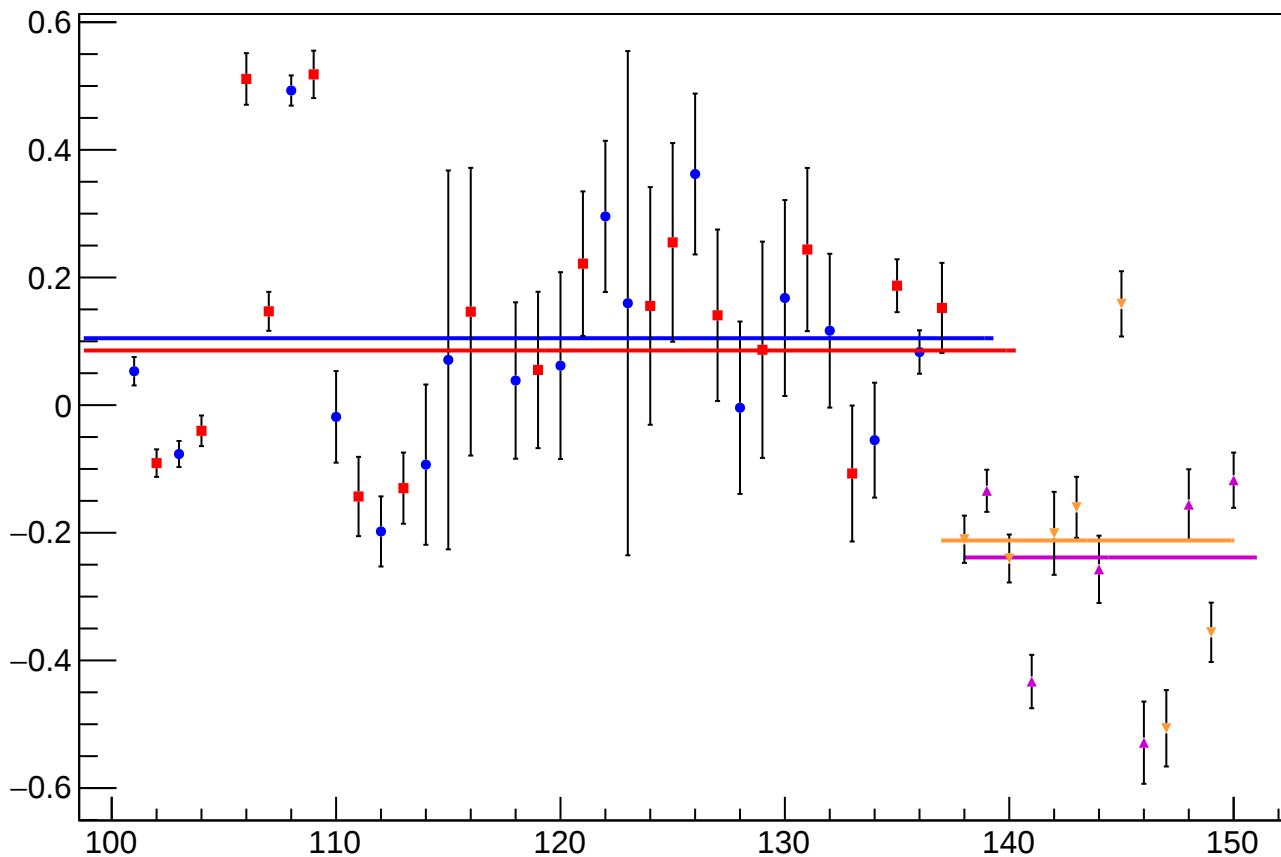
Right: 1.313 $\pm$ 0.181  $\chi^2$ /NDF: 33785.6/34

In: 17.264 $\pm$ 0.210  $\chi^2$ /NDF:36320.0/22

Out: 23.355 $\pm$ 0.215  $\chi^2$ /NDF:33629.8/24

All: 20.241 $\pm$ 0.150  $\chi^2$ /NDF: 70360.3/47

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:  $-0.212 \pm 0.018$   $\chi^2/\text{NDF}: 88.1/6$

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}: 388.3/17$

Left In:  $-0.239 \pm 0.018$   $\chi^2/\text{NDF}: 62.1/5$

Left:  $-0.225 \pm 0.013$   $\chi^2/\text{NDF}: 151.2/12$

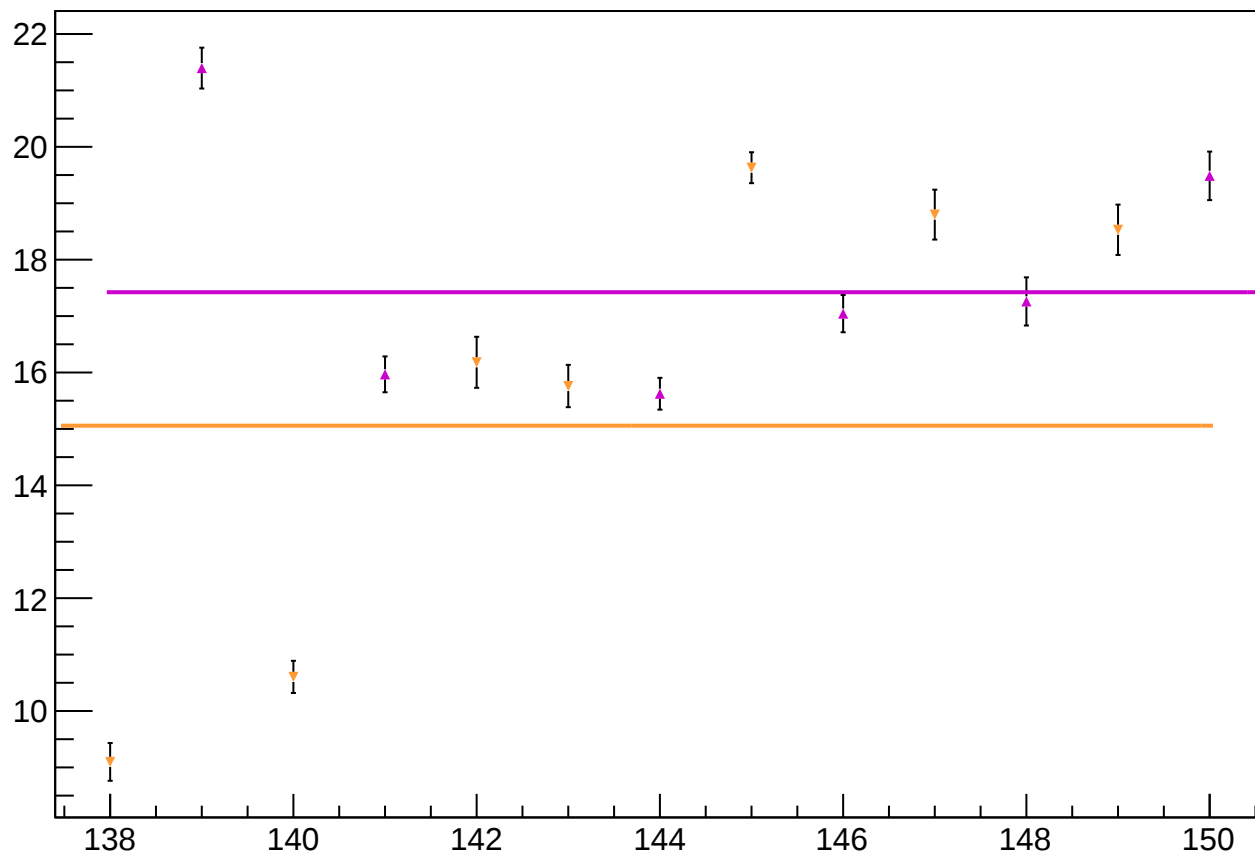
Right:  $0.095 \pm 0.008$   $\chi^2/\text{NDF}: 790.6/34$

In:  $0.014 \pm 0.009$   $\chi^2/\text{NDF}: 718.9/22$

Out:  $0.001 \pm 0.009$   $\chi^2/\text{NDF}: 681.6/24$

All:  $0.007 \pm 0.007$   $\chi^2/\text{NDF}: 1401.5/47$

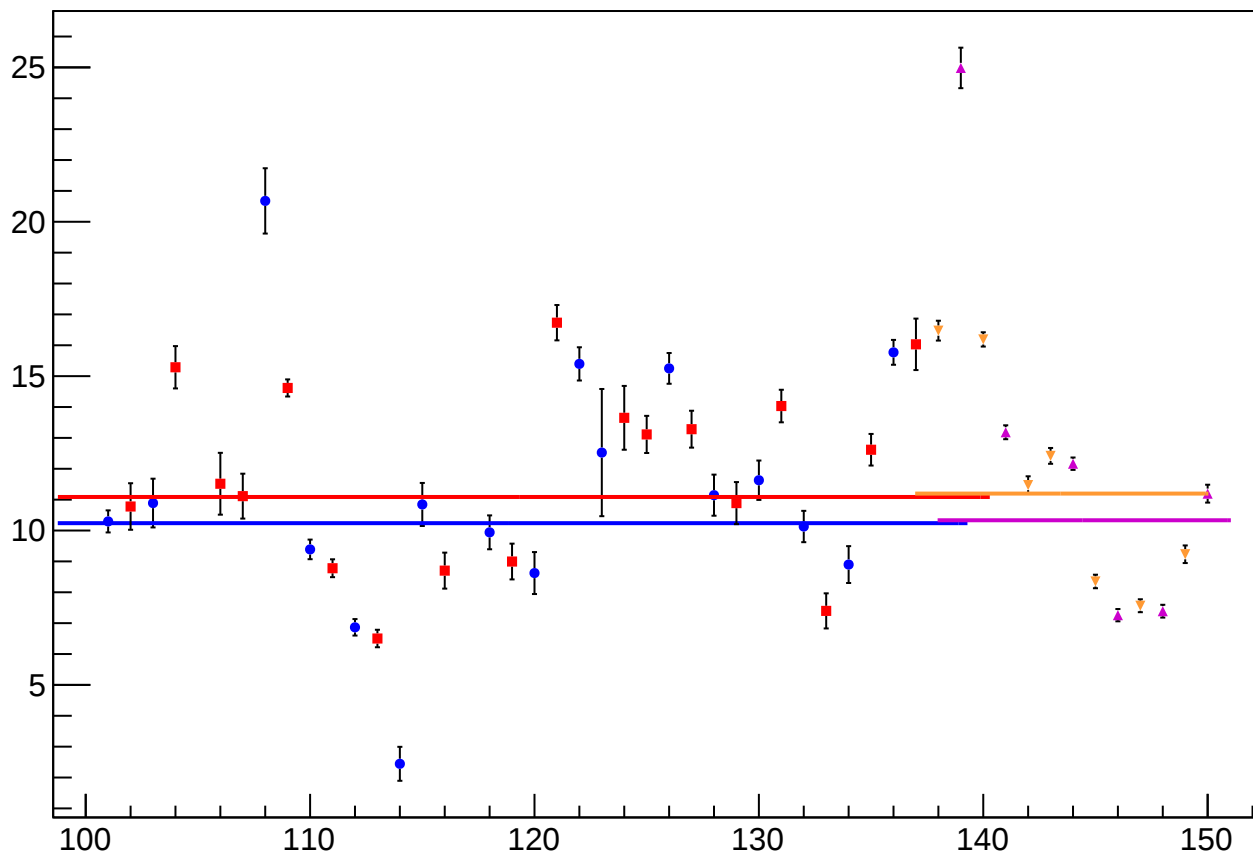
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $15.057 \pm 0.133$   $\chi^2/\text{NDF}$ : 981.0/6  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $17.423 \pm 0.141$   $\chi^2/\text{NDF}$ : 206.6/5

Left:  $16.169 \pm 0.097$   $\chi^2/\text{NDF}$ : 1336.5/12  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $17.423 \pm 0.141$   $\chi^2/\text{NDF}$ : 206.6/5  
 Out:  $15.057 \pm 0.133$   $\chi^2/\text{NDF}$ : 981.0/6  
 All:  $16.169 \pm 0.097$   $\chi^2/\text{NDF}$ : 1336.5/12

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: 11.197 $\pm$ 0.095  $\chi^2$ /NDF:1274.8/6

Right Out: 11.087 $\pm$ 0.116  $\chi^2$ /NDF: 801.0/17

Left In: 10.332 $\pm$ 0.097  $\chi^2$ /NDF:1191.0/5

Left: 10.773 $\pm$ 0.068  $\chi^2$ /NDF: 2506.8/12

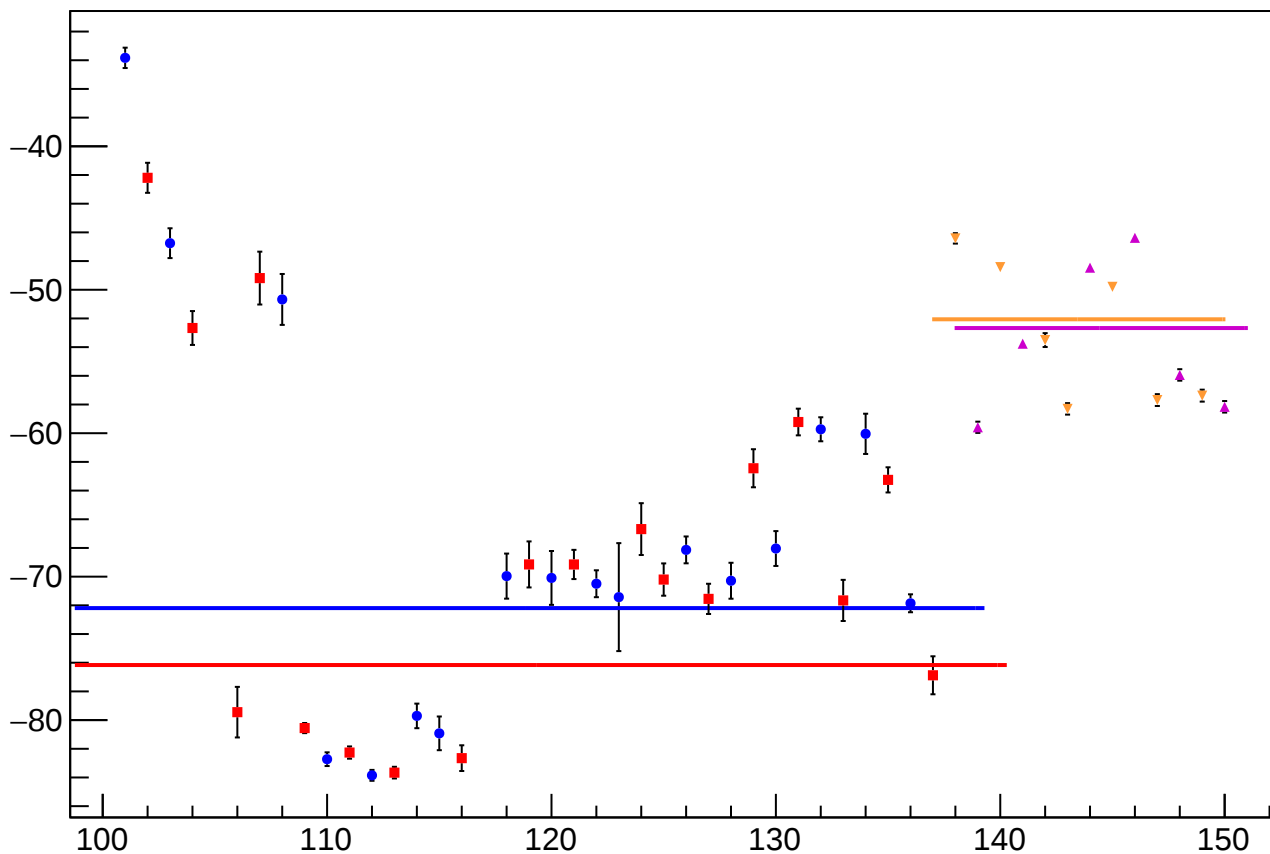
Right: 10.672 $\pm$ 0.083  $\chi^2$ /NDF: 1694.4/34

In: 10.295 $\pm$ 0.075  $\chi^2$ /NDF:2058.8/22

Out: 11.153 $\pm$ 0.073  $\chi^2$ /NDF:2076.4/24

All: 10.733 $\pm$ 0.052  $\chi^2$ /NDF: 4202.0/47

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:  $-52.060 \pm 0.138$   $\chi^2/\text{NDF}: 1046.3/6$

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}: 3223.3/17$

Left In:  $-52.669 \pm 0.143$   $\chi^2/\text{NDF}: 1164.3/5$

Left:  $-52.354 \pm 0.100$   $\chi^2/\text{NDF}: 2220.0/12$

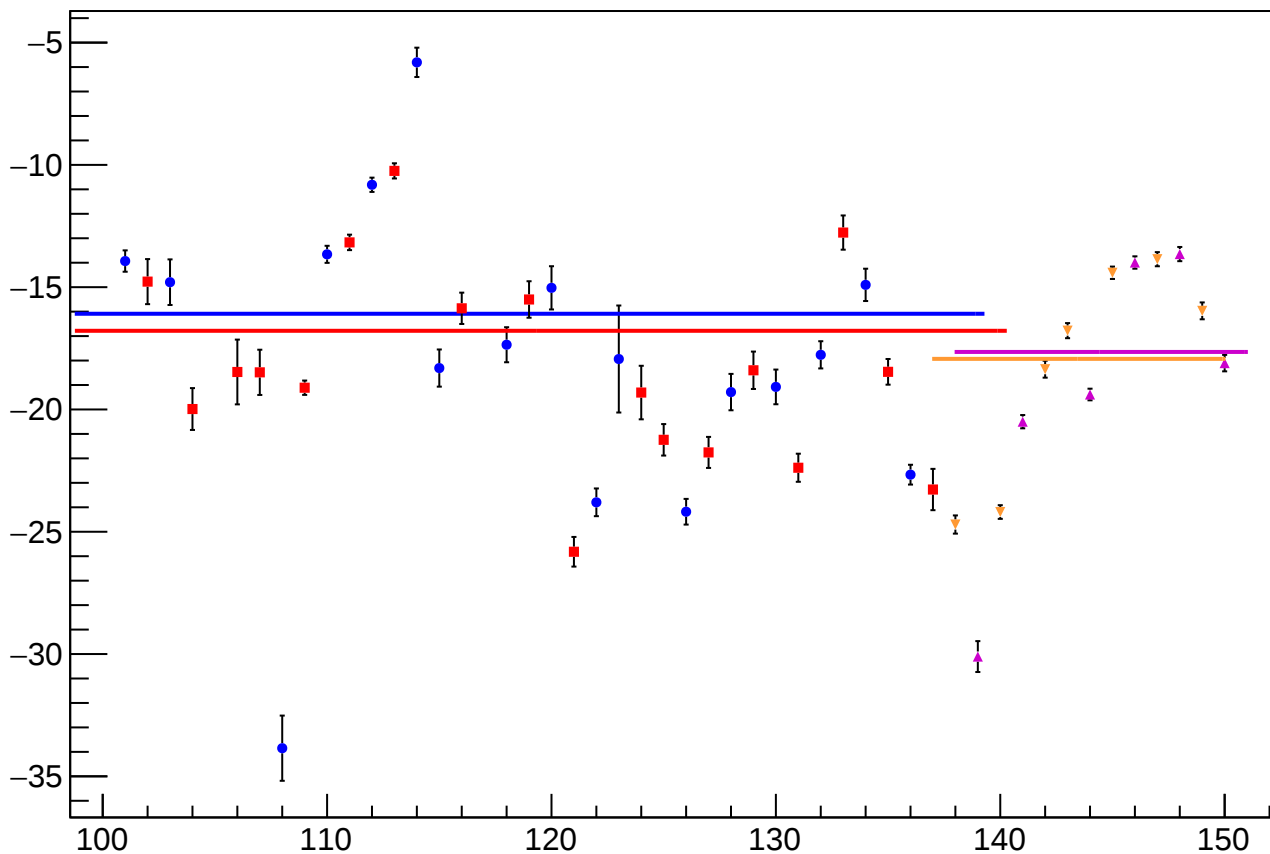
Right:  $-74.353 \pm 0.134$   $\chi^2/\text{NDF}: 9004.8/34$

In:  $-59.379 \pm 0.116$   $\chi^2/\text{NDF}: 13099.3/22$

Out:  $-60.933 \pm 0.110$   $\chi^2/\text{NDF}: 15444.4/24$

All:  $-60.198 \pm 0.080$   $\chi^2/\text{NDF}: 28638.1/47$

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:  $-17.931 \pm 0.116$   $\chi^2/\text{NDF}: 1271.0/6$

Right Out:  $-16.783 \pm 0.128$   $\chi^2/\text{NDF}: 1204.4/17$

Left In:  $-17.648 \pm 0.120$   $\chi^2/\text{NDF}: 952.5/5$

Left:  $-17.794 \pm 0.083$   $\chi^2/\text{NDF}: 2226.3/12$

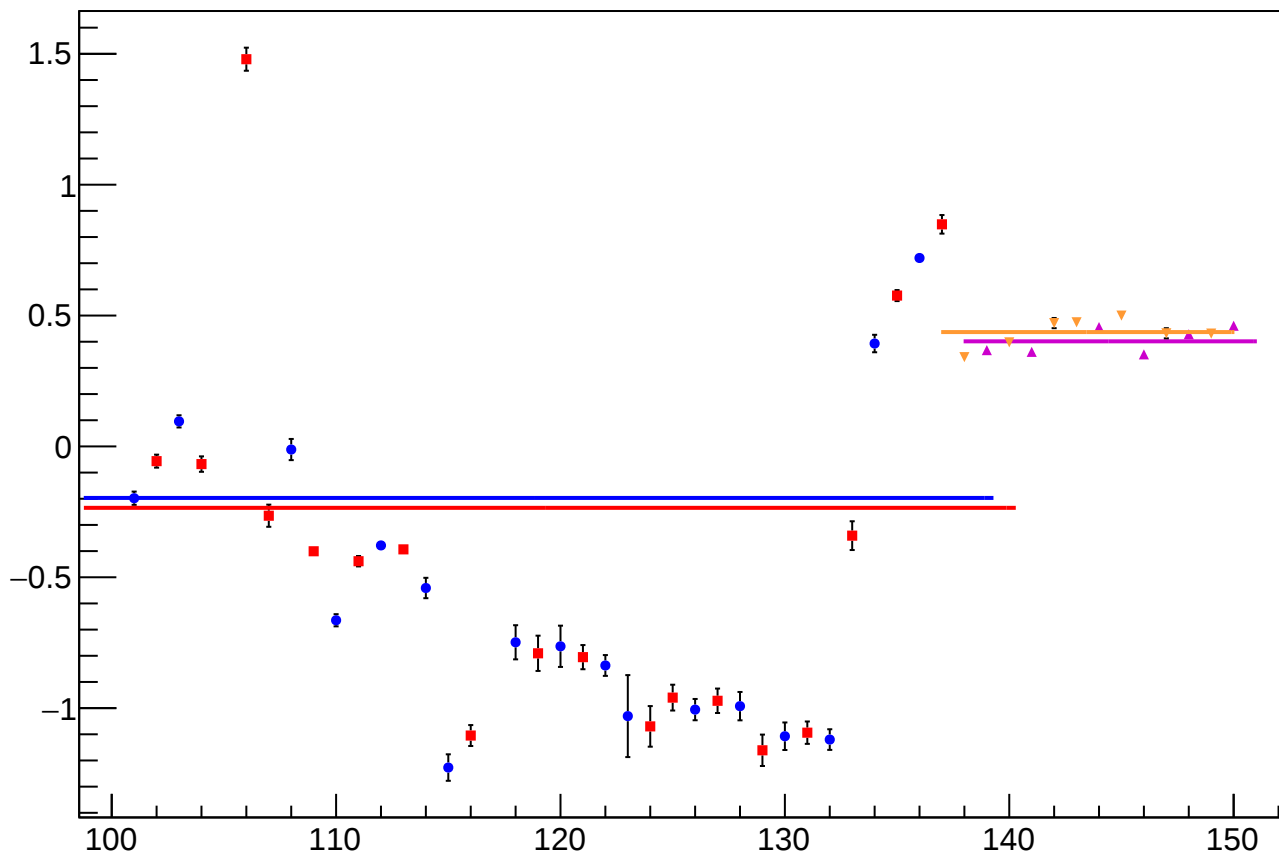
Right:  $-16.446 \pm 0.092$   $\chi^2/\text{NDF}: 2840.4/34$

In:  $-16.947 \pm 0.089$   $\chi^2/\text{NDF}: 2650.8/22$

Out:  $-17.416 \pm 0.086$   $\chi^2/\text{NDF}: 2519.6/24$

All:  $-17.189 \pm 0.062$   $\chi^2/\text{NDF}: 5184.8/47$

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:  $0.437 \pm 0.006$   $\chi^2/\text{NDF}$ : 91.6/6

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

Left In:  $0.401 \pm 0.006$   $\chi^2/\text{NDF}$ : 58.3/5

Left:  $0.420 \pm 0.004$   $\chi^2/\text{NDF}$ : 168.1/12

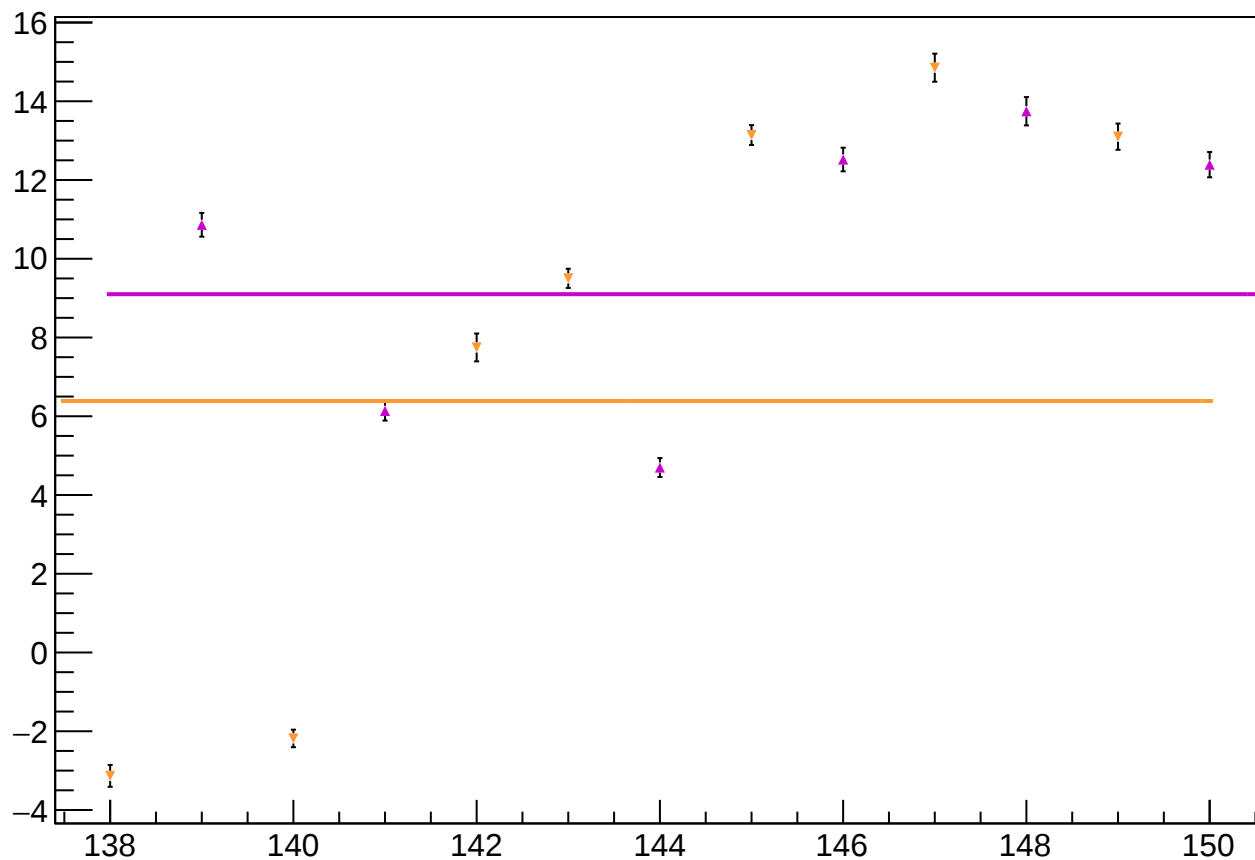
Right:  $-0.217 \pm 0.005$   $\chi^2/\text{NDF}$ : 12547.9/34

In:  $0.171 \pm 0.005$   $\chi^2/\text{NDF}$ : 10246.5/22

Out:  $0.175 \pm 0.004$   $\chi^2/\text{NDF}$ : 11622.2/24

All:  $0.173 \pm 0.003$   $\chi^2/\text{NDF}$ : 21869.2/47

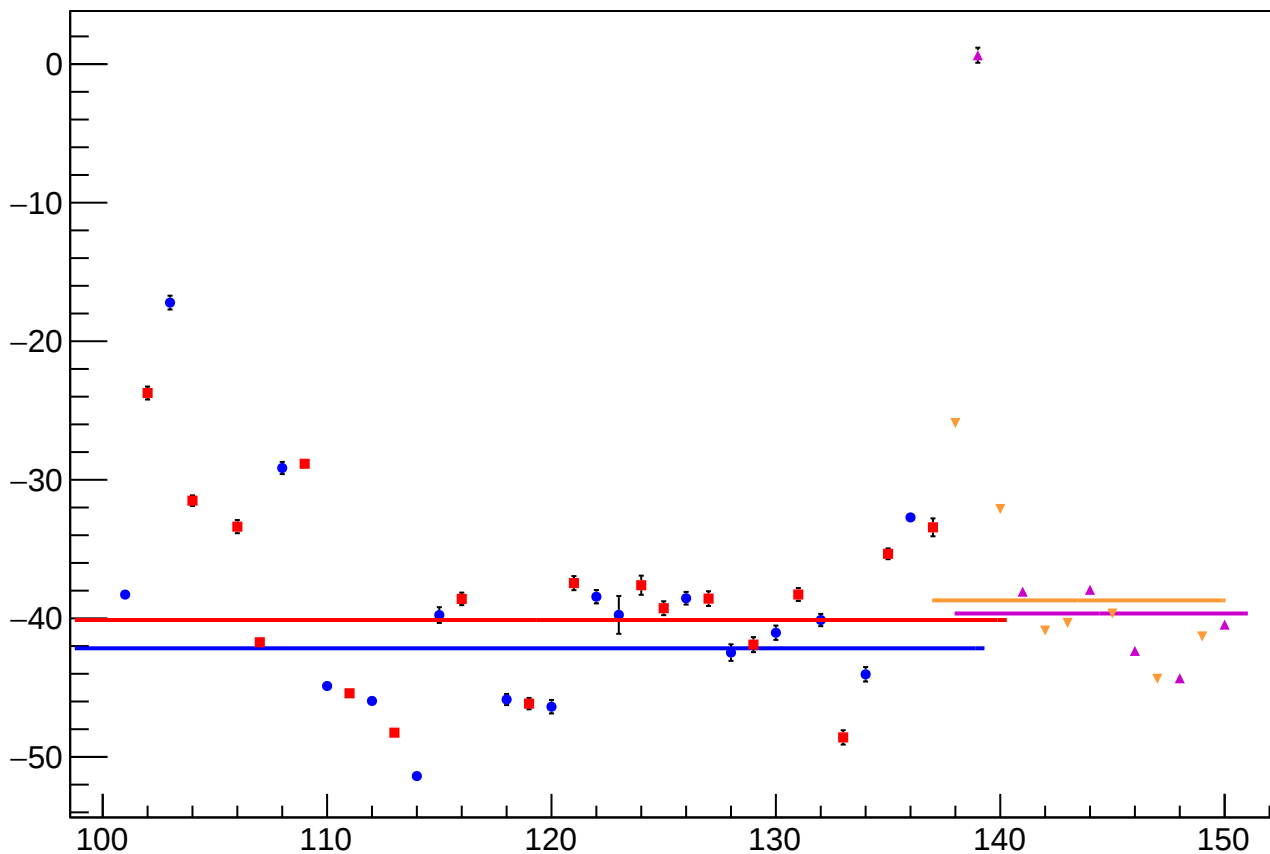
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.388+/-0.105     $\chi^2/\text{NDF}$ :4521.2/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.100+/-0.117     $\chi^2/\text{NDF}$ :916.1/5

Left: 7.601+/-0.078     $\chi^2/\text{NDF}$ : 5735.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 9.100+/-0.117     $\chi^2/\text{NDF}$ :916.1/5  
 Out: 6.388+/-0.105     $\chi^2/\text{NDF}$ :4521.2/6  
 All: 7.601+/-0.078     $\chi^2/\text{NDF}$ : 5735.3/12

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:  $-38.705 \pm 0.074$   $\chi^2/\text{NDF}: 5058.3/6$

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}: 10884.6/17$

Left In:  $-39.648 \pm 0.081$   $\chi^2/\text{NDF}: 6585.2/5$

Left:  $-39.137 \pm 0.055$   $\chi^2/\text{NDF}: 11717.2/12$

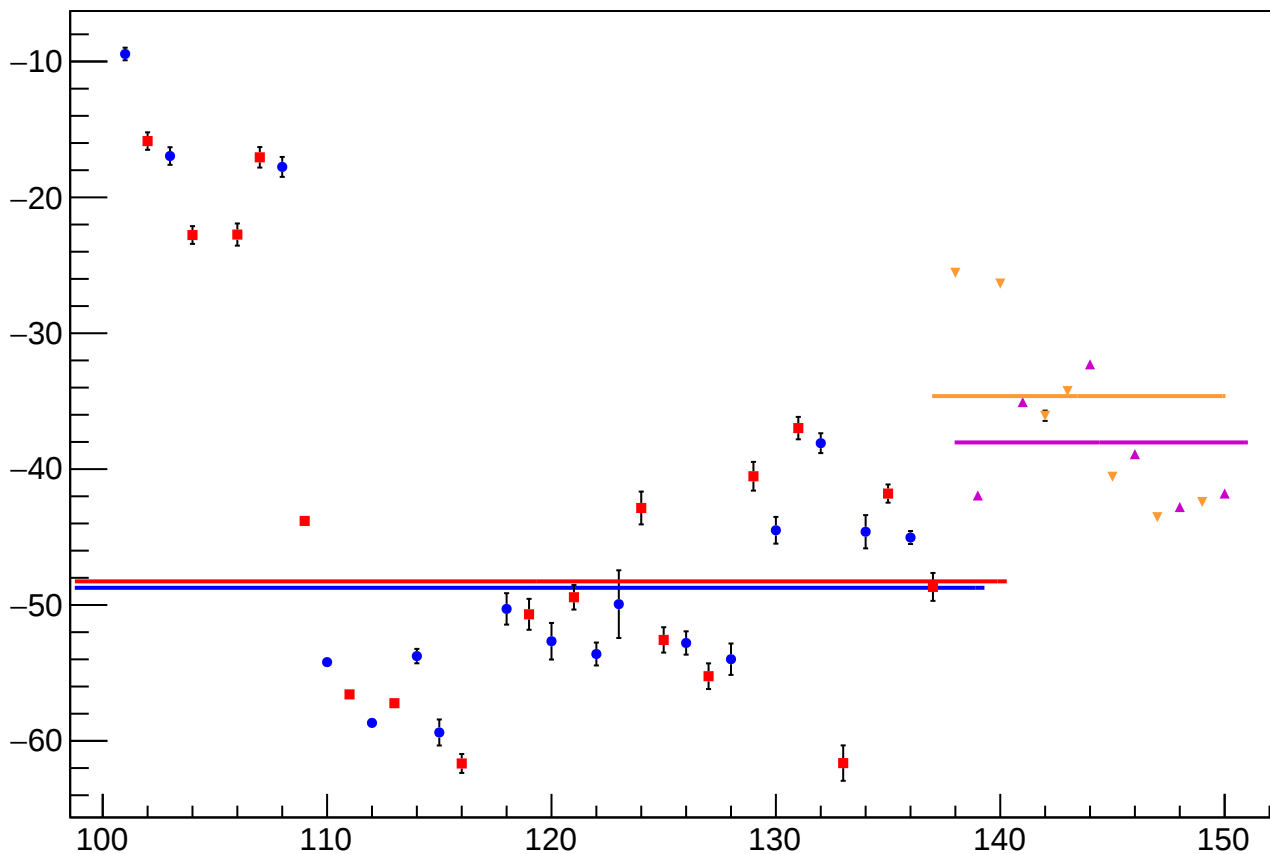
Right:  $-41.071 \pm 0.053$   $\chi^2/\text{NDF}: 17821.0/34$

In:  $-40.952 \pm 0.056$   $\chi^2/\text{NDF}: 13655.5/22$

Out:  $-39.427 \pm 0.052$   $\chi^2/\text{NDF}: 16127.5/24$

All:  $-40.132 \pm 0.038$   $\chi^2/\text{NDF}: 30179.9/47$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -48.733 $\pm$ 0.125  $\chi^2$ /NDF: 14659.4/16

Left Out: -34.627 $\pm$ 0.109  $\chi^2$ /NDF: 3977.0/6

Right Out: -48.261 $\pm$ 0.107  $\chi^2$ /NDF: 11091.7/17

Left In: -38.036 $\pm$ 0.119  $\chi^2$ /NDF: 1135.1/5

Left: -36.190 $\pm$ 0.080  $\chi^2$ /NDF: 5558.7/12

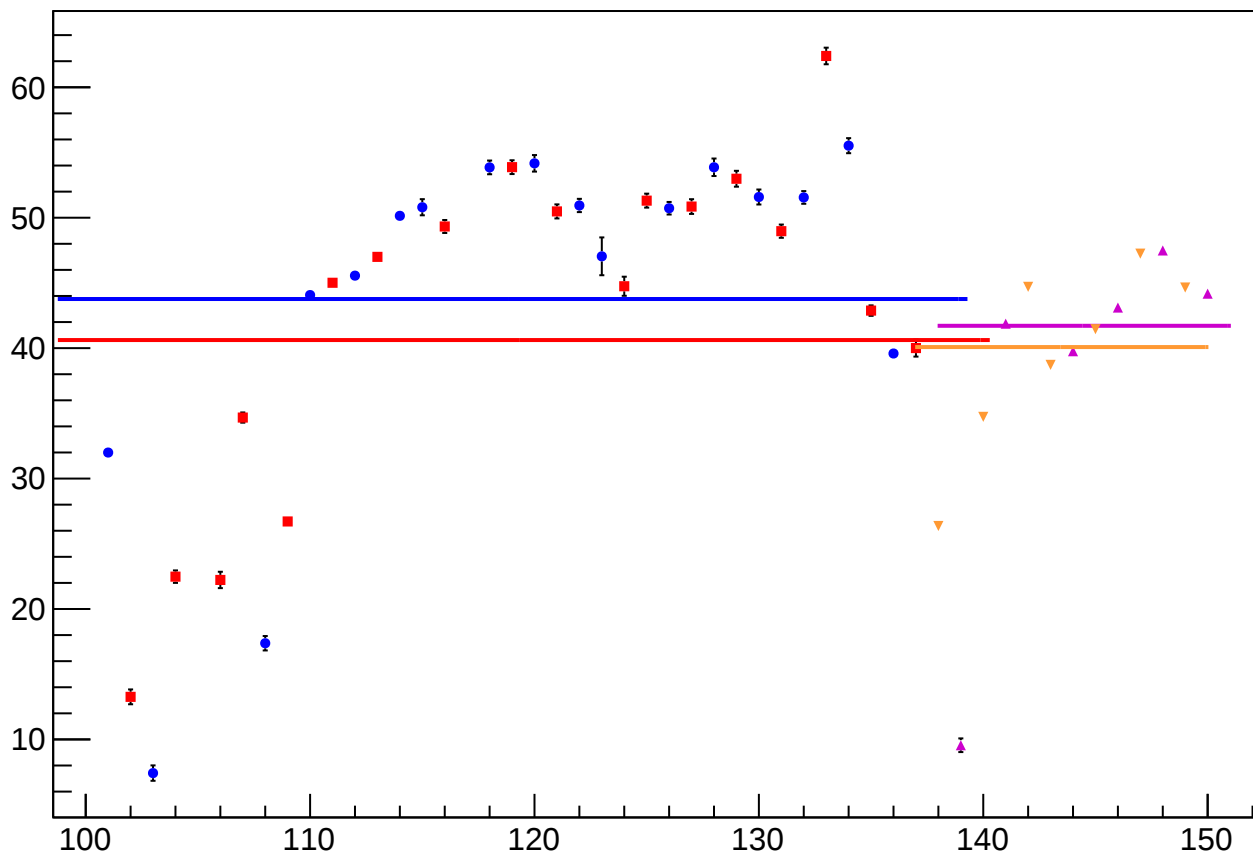
Right: -48.462 $\pm$ 0.081  $\chi^2$ /NDF: 25759.4/34

In: -43.121 $\pm$ 0.086  $\chi^2$ /NDF: 19656.3/22

Out: -41.557 $\pm$ 0.077  $\chi^2$ /NDF: 22987.2/24

All: -42.249 $\pm$ 0.057  $\chi^2$ /NDF: 42828.1/47

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 43.767±/0.087  $\chi^2/\text{NDF}$ : 10633.5/16

Left Out: 40.082±/0.091  $\chi^2/\text{NDF}$ : 4173.3/6

Right Out: 40.620±/0.080  $\chi^2/\text{NDF}$ : 16957.4/17

Left In: 41.714±/0.099  $\chi^2/\text{NDF}$ : 4542.4/5

Left: 40.825±/0.067  $\chi^2/\text{NDF}$ : 8862.3/12

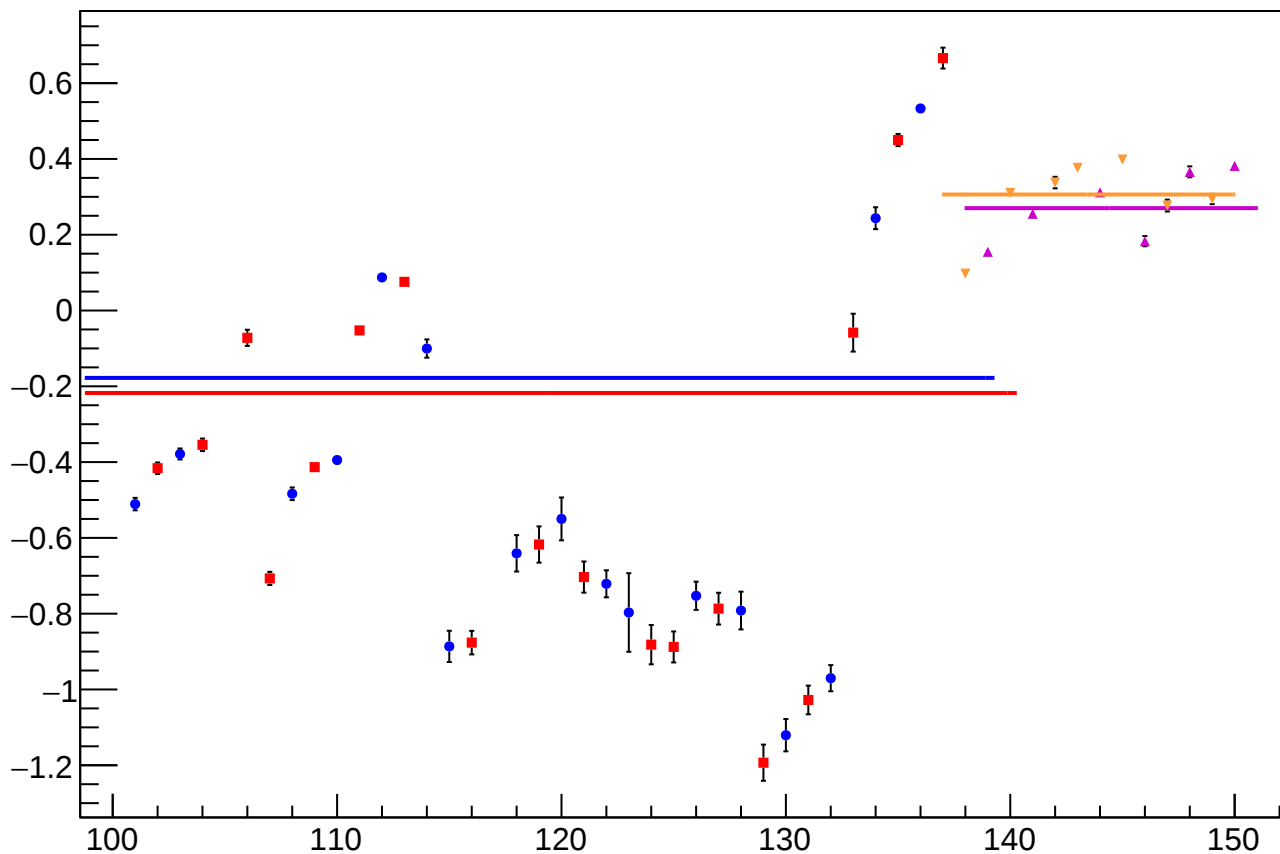
Right: 42.070±/0.059  $\chi^2/\text{NDF}$ : 28299.2/34

In: 42.879±/0.065  $\chi^2/\text{NDF}$ : 15417.8/22

Out: 40.385±/0.060  $\chi^2/\text{NDF}$ : 21150.4/24

All: 41.528±/0.044  $\chi^2/\text{NDF}$ : 37356.1/47

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:  $0.306 \pm 0.005$   $\chi^2/\text{NDF}$ : 436.5/6

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

Left In:  $0.270 \pm 0.005$   $\chi^2/\text{NDF}$ : 280.7/5

Left:  $0.290 \pm 0.003$   $\chi^2/\text{NDF}$ : 746.1/12

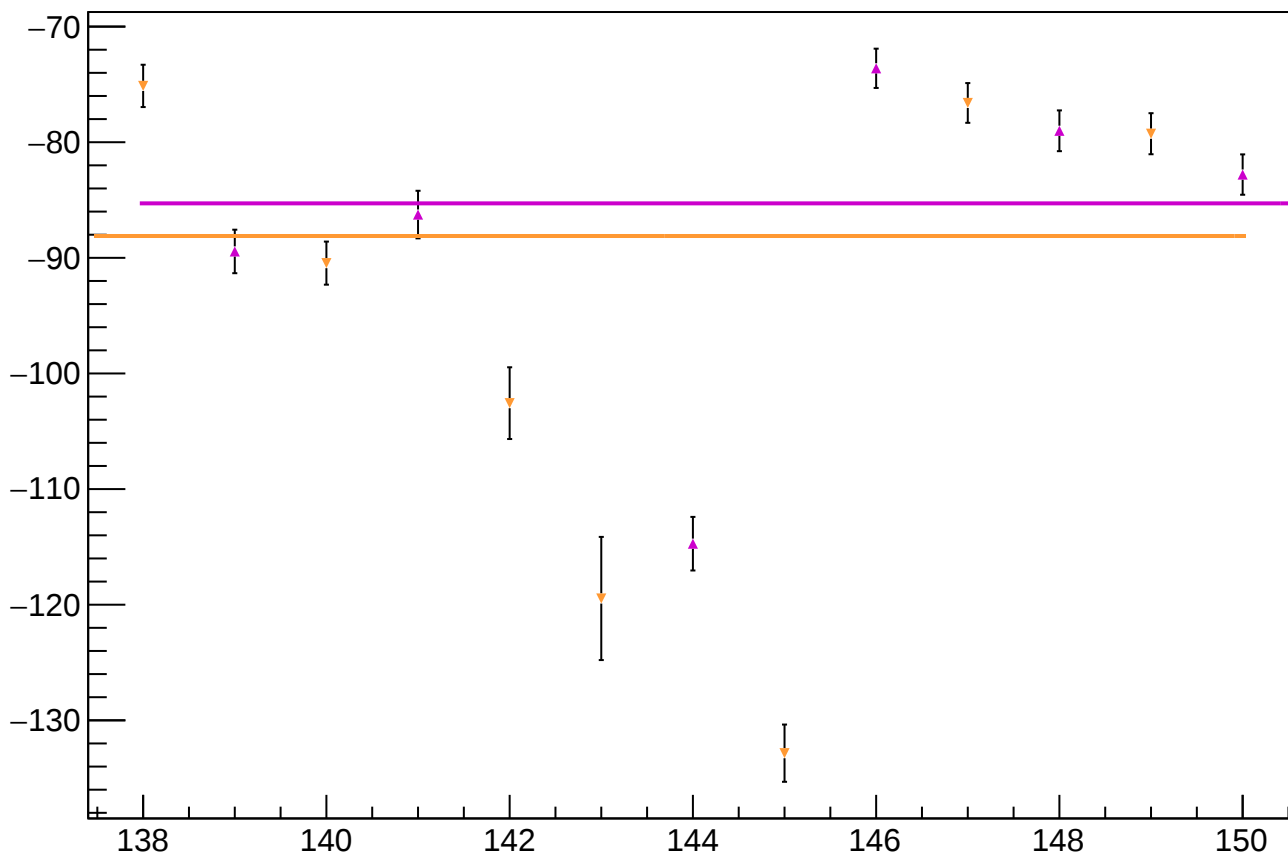
Right:  $-0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 14857.8/34

In:  $0.042 \pm 0.003$   $\chi^2/\text{NDF}$ : 11843.1/22

Out:  $0.031 \pm 0.003$   $\chi^2/\text{NDF}$ : 14883.6/24

All:  $0.036 \pm 0.002$   $\chi^2/\text{NDF}$ : 26732.6/47

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: -88.112+/-0.805  $\chi^2/\text{NDF}$ :504.3/6

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

Left In: -85.288+/-0.767  $\chi^2/\text{NDF}$ :228.4/5

Left: -86.632+/-0.555  $\chi^2/\text{NDF}$ : 739.2/12

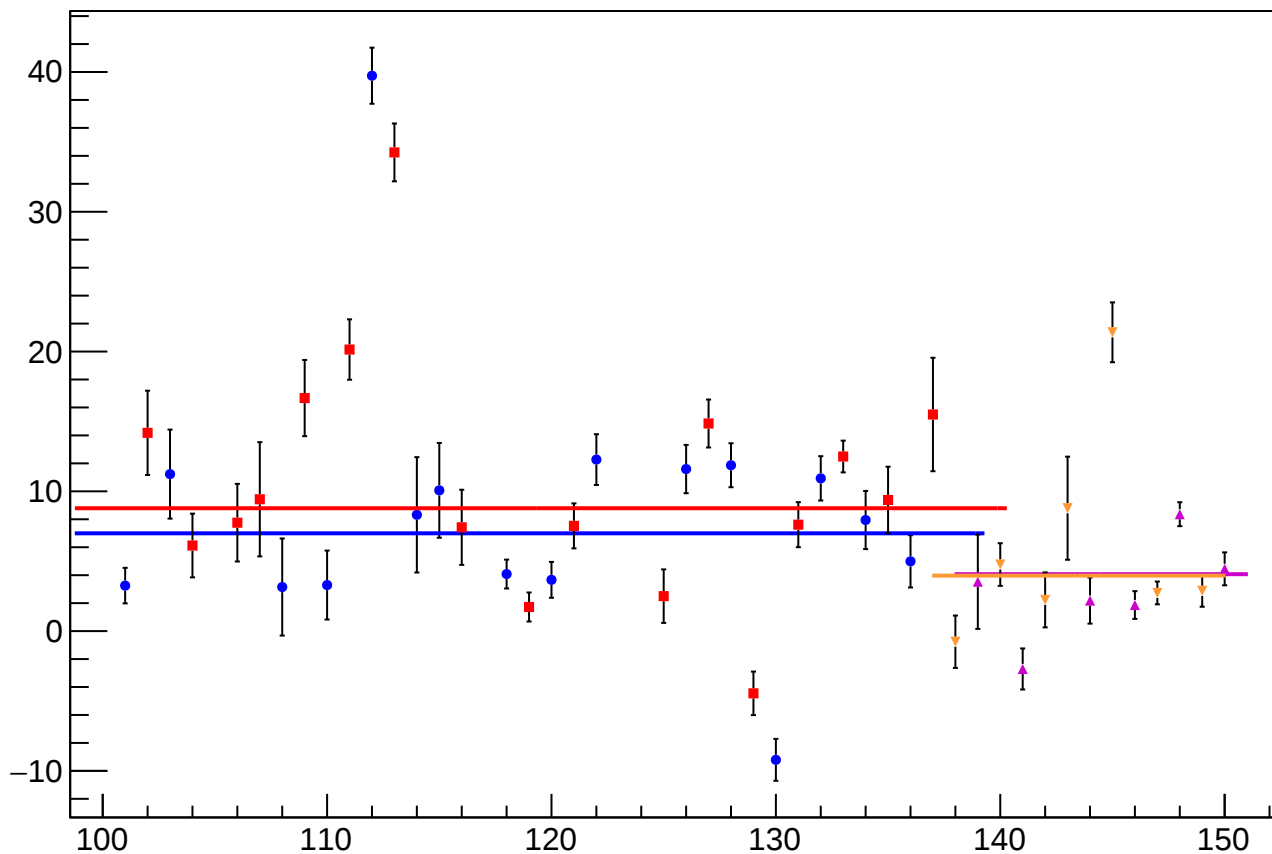
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -85.288+/-0.767  $\chi^2/\text{NDF}$ :228.4/5

Out: -88.112+/-0.805  $\chi^2/\text{NDF}$ :504.3/6

All: -86.632+/-0.555  $\chi^2/\text{NDF}$ : 739.2/12

# 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:  $3.970 \pm 0.532$   $\chi^2/\text{NDF}: 78.5/6$

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}: 348.8/16$

Left In:  $4.072 \pm 0.499$   $\chi^2/\text{NDF}: 52.9/5$

Left:  $4.024 \pm 0.364$   $\chi^2/\text{NDF}: 131.4/12$

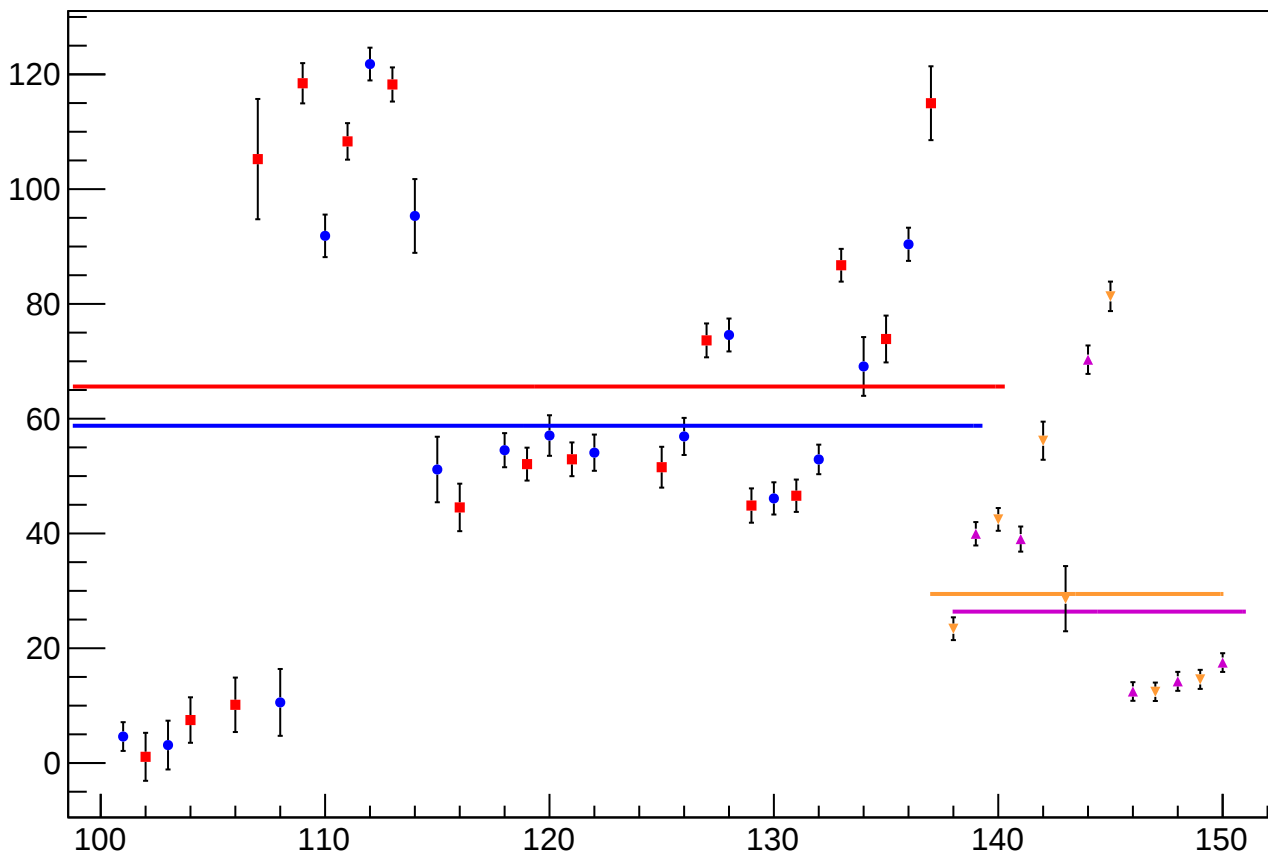
Right:  $7.862 \pm 0.312$   $\chi^2/\text{NDF}: 802.4/32$

In:  $5.735 \pm 0.327$   $\chi^2/\text{NDF}: 517.8/21$

Out:  $6.780 \pm 0.343$   $\chi^2/\text{NDF}: 475.3/23$

All:  $6.233 \pm 0.237$   $\chi^2/\text{NDF}: 997.9/45$

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: 29.459 $\pm$ 0.808  $\chi^2$ /NDF: 717.6/6

Right Out: 65.606 $\pm$ 0.845  $\chi^2$ /NDF: 1625.3/16

Left In: 26.383 $\pm$ 0.760  $\chi^2$ /NDF: 548.5/5

Left: 27.827 $\pm$ 0.553  $\chi^2$ /NDF: 1273.7/12

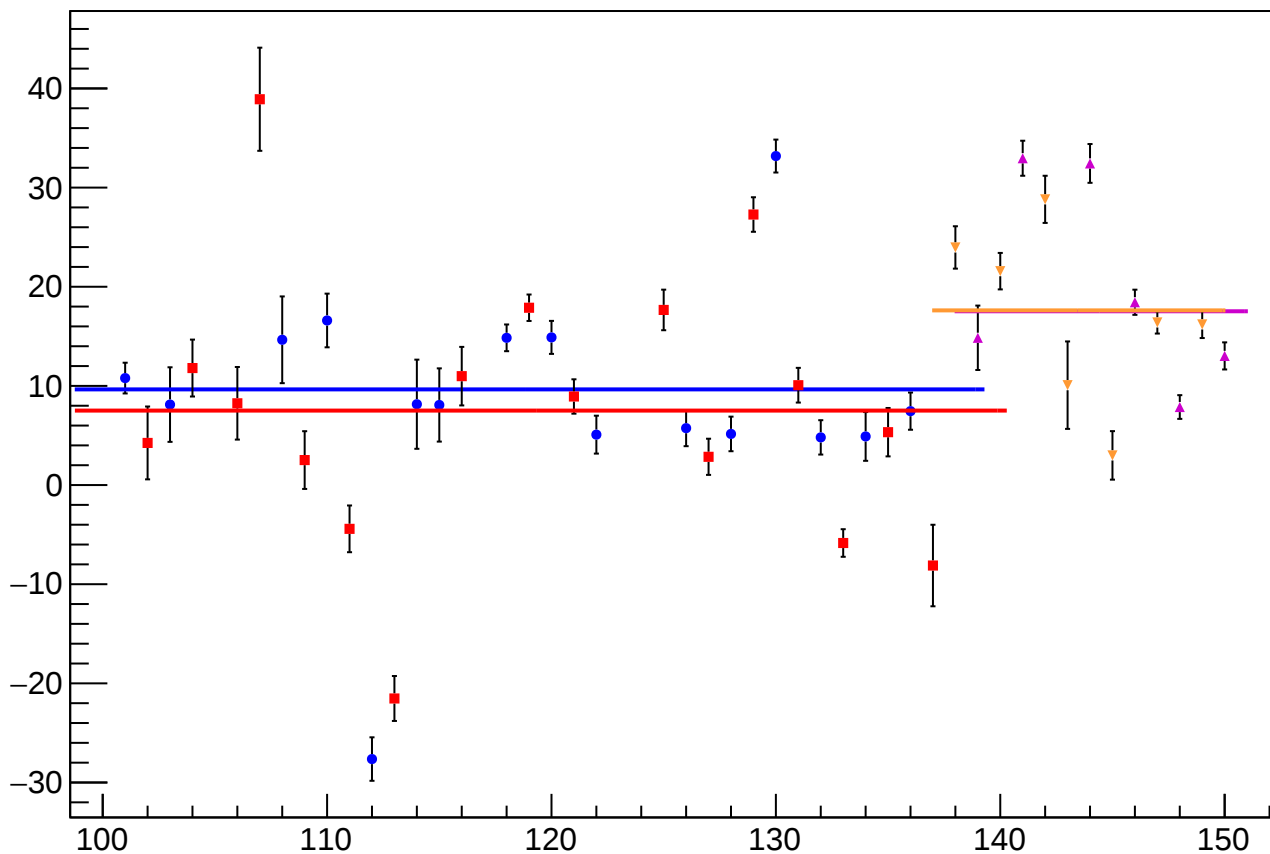
Right: 62.140 $\pm$ 0.593  $\chi^2$ /NDF: 3151.9/32

In: 41.090 $\pm$ 0.561  $\chi^2$ /NDF: 2867.2/21

Out: 46.726 $\pm$ 0.584  $\chi^2$ /NDF: 3299.3/23

All: 43.797 $\pm$ 0.405  $\chi^2$ /NDF: 6214.9/45

reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}: 553.6/15$

Left Out:  $17.616 \pm 0.670$   $\chi^2/\text{NDF}: 76.5/6$

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}: 564.3/16$

Left In:  $17.527 \pm 0.629$   $\chi^2/\text{NDF}: 211.7/5$

Left:  $17.569 \pm 0.458$   $\chi^2/\text{NDF}: 288.2/12$

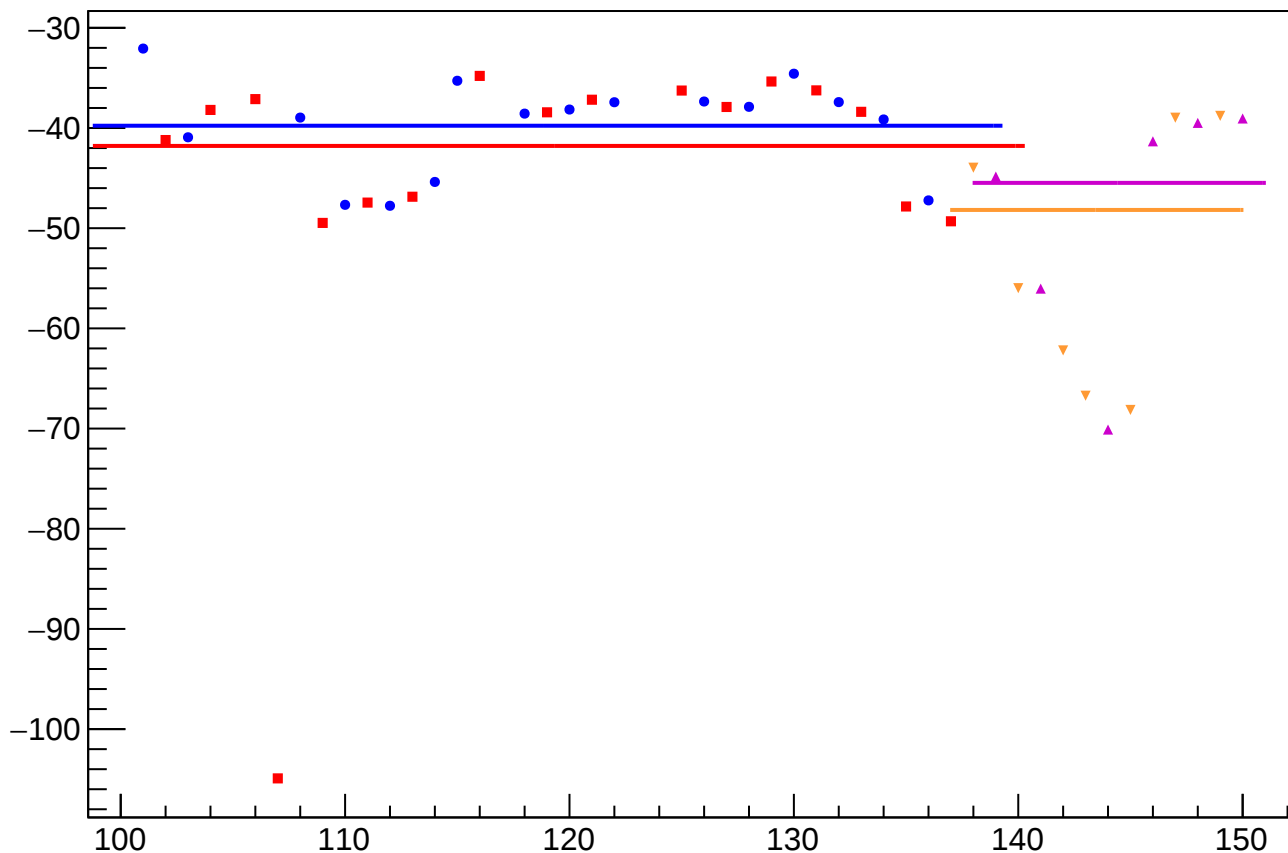
Right:  $8.610 \pm 0.360$   $\chi^2/\text{NDF}: 1126.7/32$

In:  $12.717 \pm 0.392$   $\chi^2/\text{NDF}: 861.2/21$

Out:  $11.280 \pm 0.409$   $\chi^2/\text{NDF}: 783.6/23$

All:  $12.028 \pm 0.283$   $\chi^2/\text{NDF}: 1651.2/45$

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-48.177 \pm 0.035$   $\chi^2/\text{NDF}$ : 99032.9/6

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

Left In:  $-45.476 \pm 0.032$   $\chi^2/\text{NDF}$ : 84646.5/5

Left:  $-46.707 \pm 0.023$   $\chi^2/\text{NDF}$ : 187005.3/12

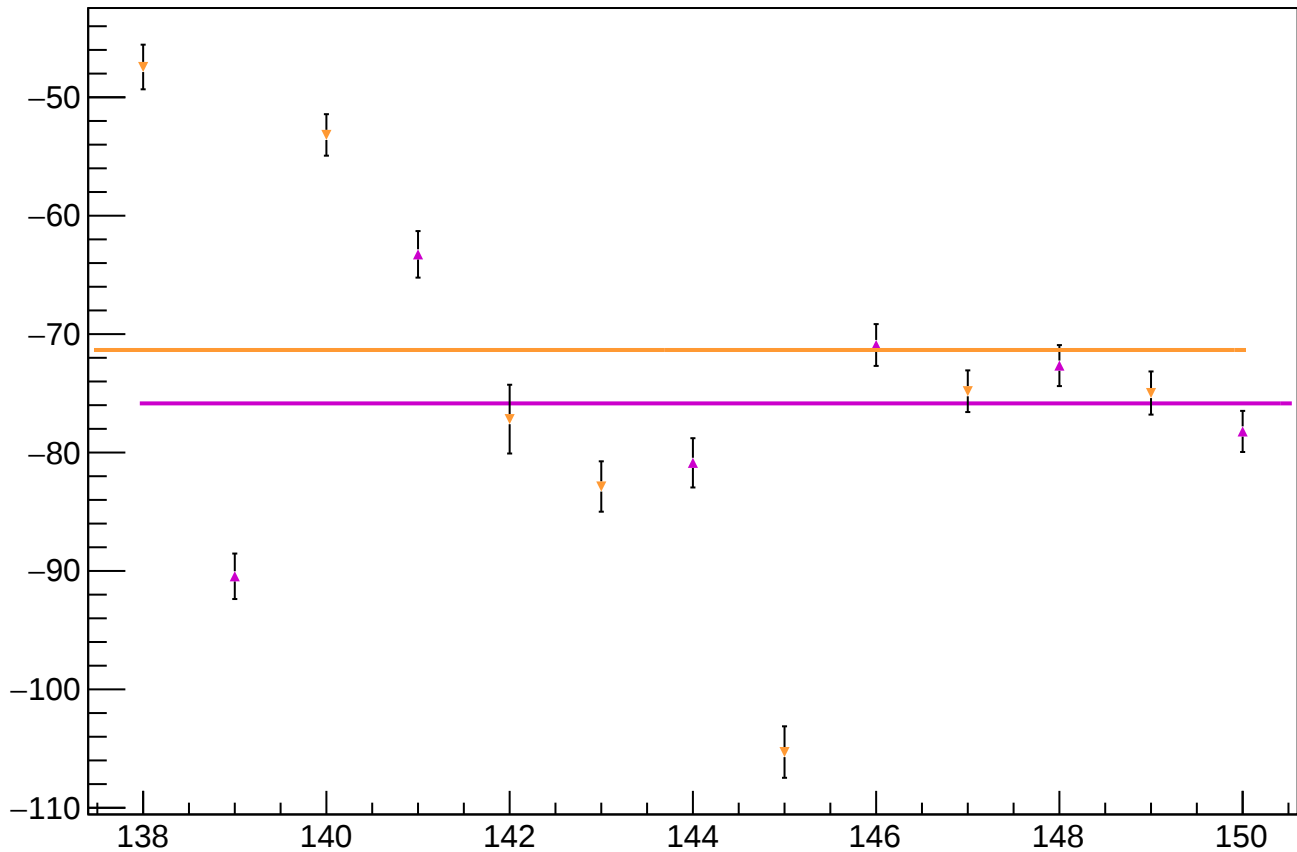
Right:  $-40.769 \pm 0.022$   $\chi^2/\text{NDF}$ : 121265.0/32

In:  $-42.575 \pm 0.022$   $\chi^2/\text{NDF}$ : 127357.5/21

Out:  $-44.677 \pm 0.023$   $\chi^2/\text{NDF}$ : 210769.4/23

All:  $-43.577 \pm 0.016$   $\chi^2/\text{NDF}$ : 342406.6/45

reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -71.340+/-0.749  $\chi^2/\text{NDF}$ :553.4/6

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

Left In: -75.850+/-0.756  $\chi^2/\text{NDF}$ :117.7/5

Left: -73.573+/-0.532  $\chi^2/\text{NDF}$ : 689.1/12

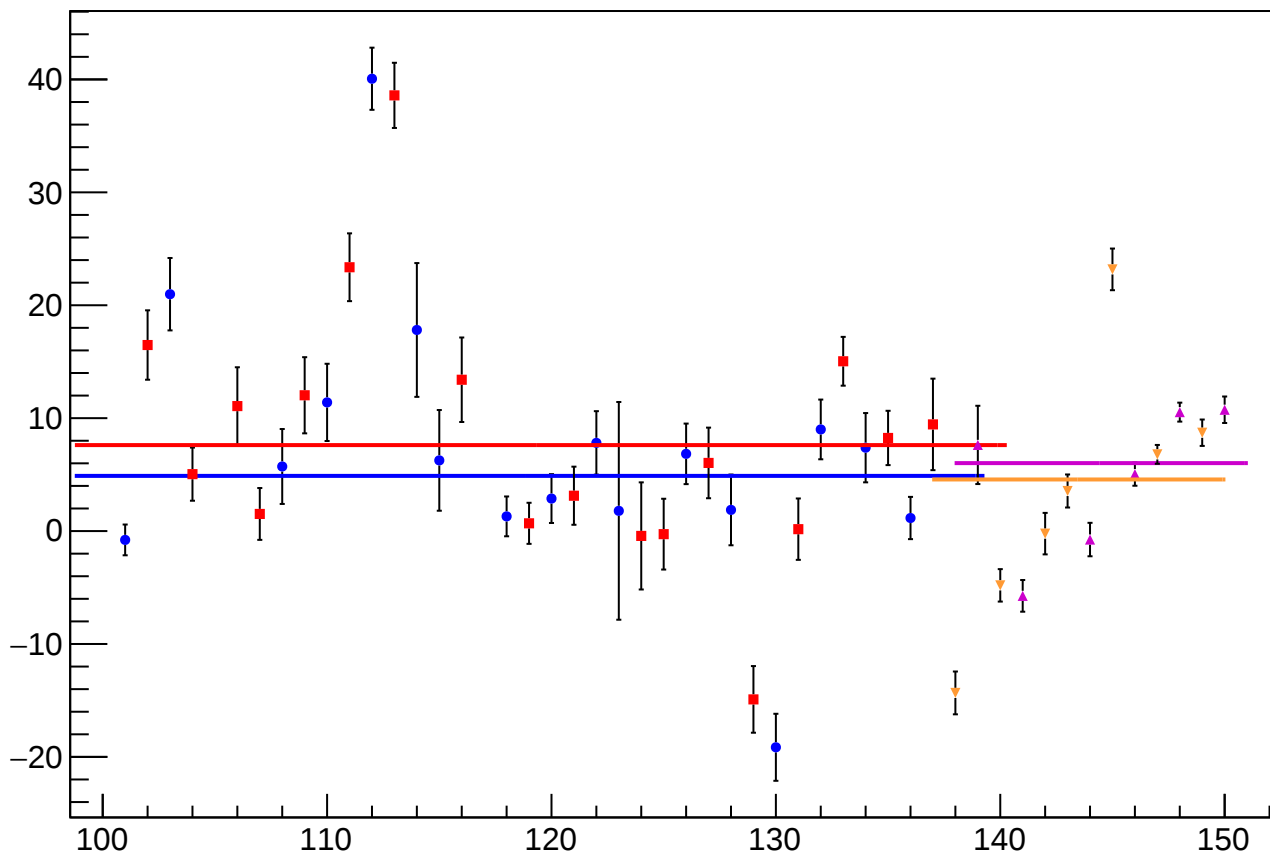
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -75.850+/-0.756  $\chi^2/\text{NDF}$ :117.7/5

Out: -71.340+/-0.749  $\chi^2/\text{NDF}$ :553.4/6

All: -73.573+/-0.532  $\chi^2/\text{NDF}$ : 689.1/12

reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.888 \pm 0.622$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $4.570 \pm 0.501$   $\chi^2/\text{NDF}$ : 270.7/6

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

Left In:  $6.019 \pm 0.491$   $\chi^2/\text{NDF}$ : 137.4/5

Left:  $5.308 \pm 0.351$   $\chi^2/\text{NDF}$ : 412.3/12

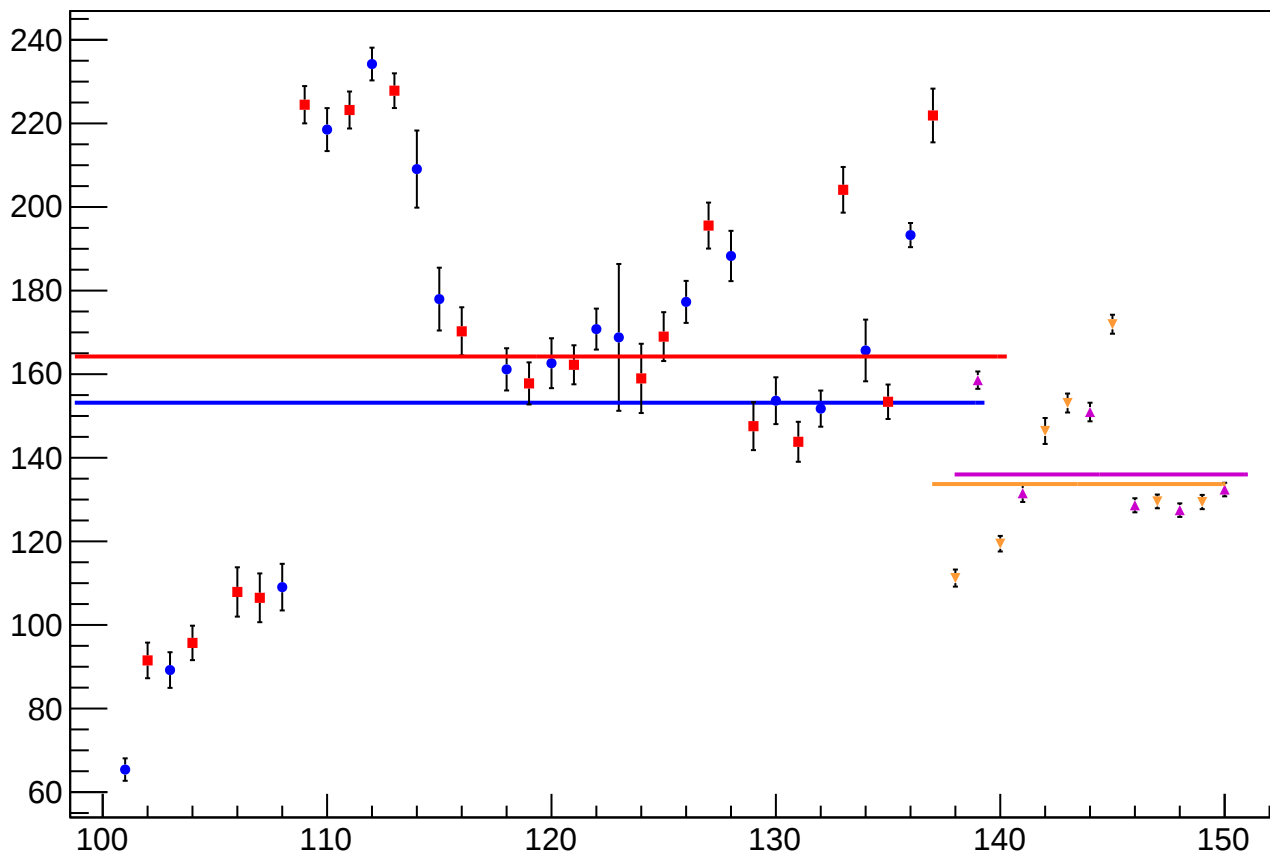
Right:  $6.187 \pm 0.450$   $\chi^2/\text{NDF}$ : 573.1/34

In:  $5.584 \pm 0.386$   $\chi^2/\text{NDF}$ : 434.2/22

Out:  $5.699 \pm 0.397$   $\chi^2/\text{NDF}$ : 553.6/24

All:  $5.640 \pm 0.277$   $\chi^2/\text{NDF}$ : 987.8/47

# 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: 133.710 $\pm$ 0.760  $\chi^2$ /NDF:565.9/6

Right Out: 164.232 $\pm$ 1.183  $\chi^2$ /NDF: 1554.8/17

Left In: 136.010 $\pm$ 0.751  $\chi^2$ /NDF:219.3/5

Left: 134.873 $\pm$ 0.534  $\chi^2$ /NDF: 789.9/12

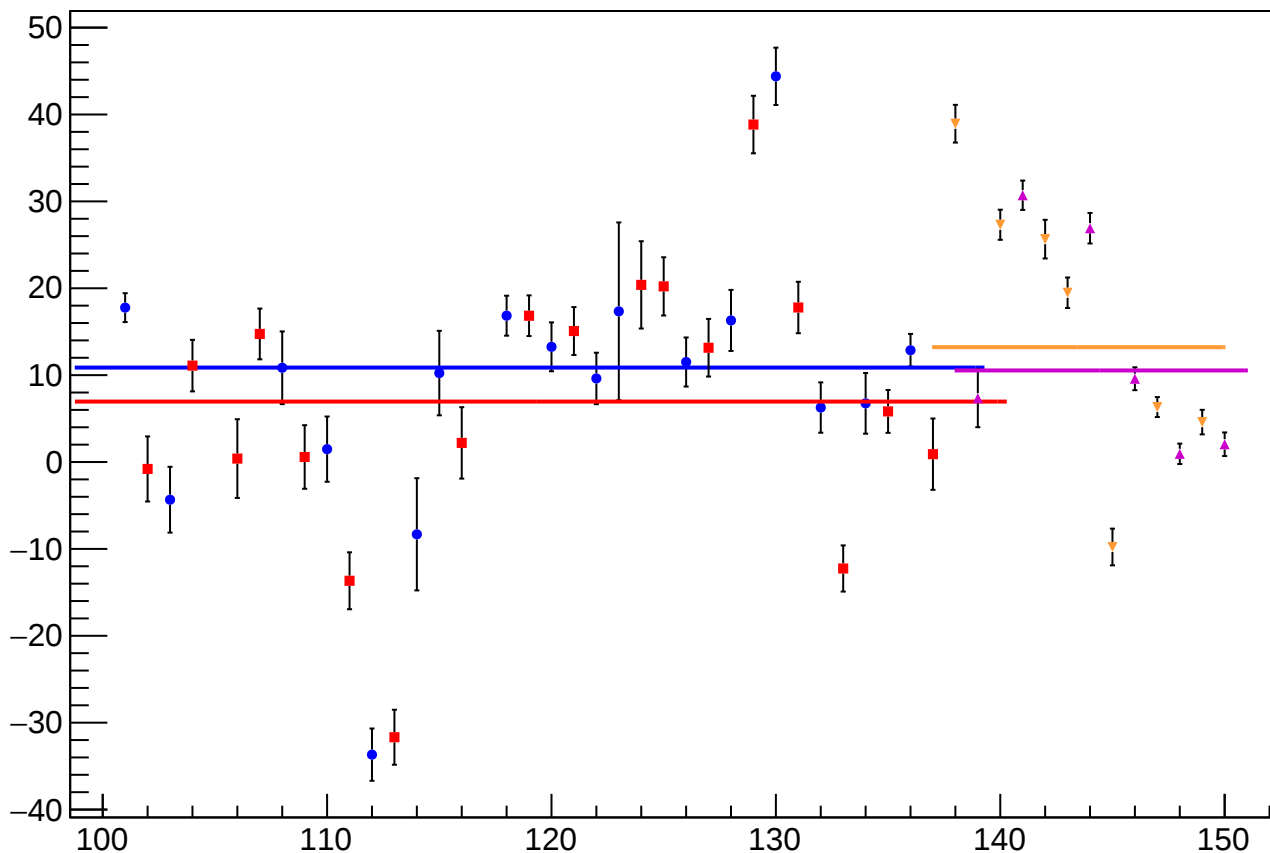
Right: 158.528 $\pm$ 0.823  $\chi^2$ /NDF: 3864.1/34

In: 141.164 $\pm$ 0.628  $\chi^2$ /NDF:2640.4/22

Out: 142.618 $\pm$ 0.639  $\chi^2$ /NDF:2592.0/24

All: 141.878 $\pm$ 0.448  $\chi^2$ /NDF: 5235.1/47

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: 13.221 $\pm$ 0.626  $\chi^2$ /NDF:442.1/6

Right Out: 6.958 $\pm$ 0.749  $\chi^2$ /NDF: 422.3/17

Left In: 10.541 $\pm$ 0.619  $\chi^2$ /NDF:336.9/5

Left: 11.866 $\pm$ 0.440  $\chi^2$ /NDF: 788.3/12

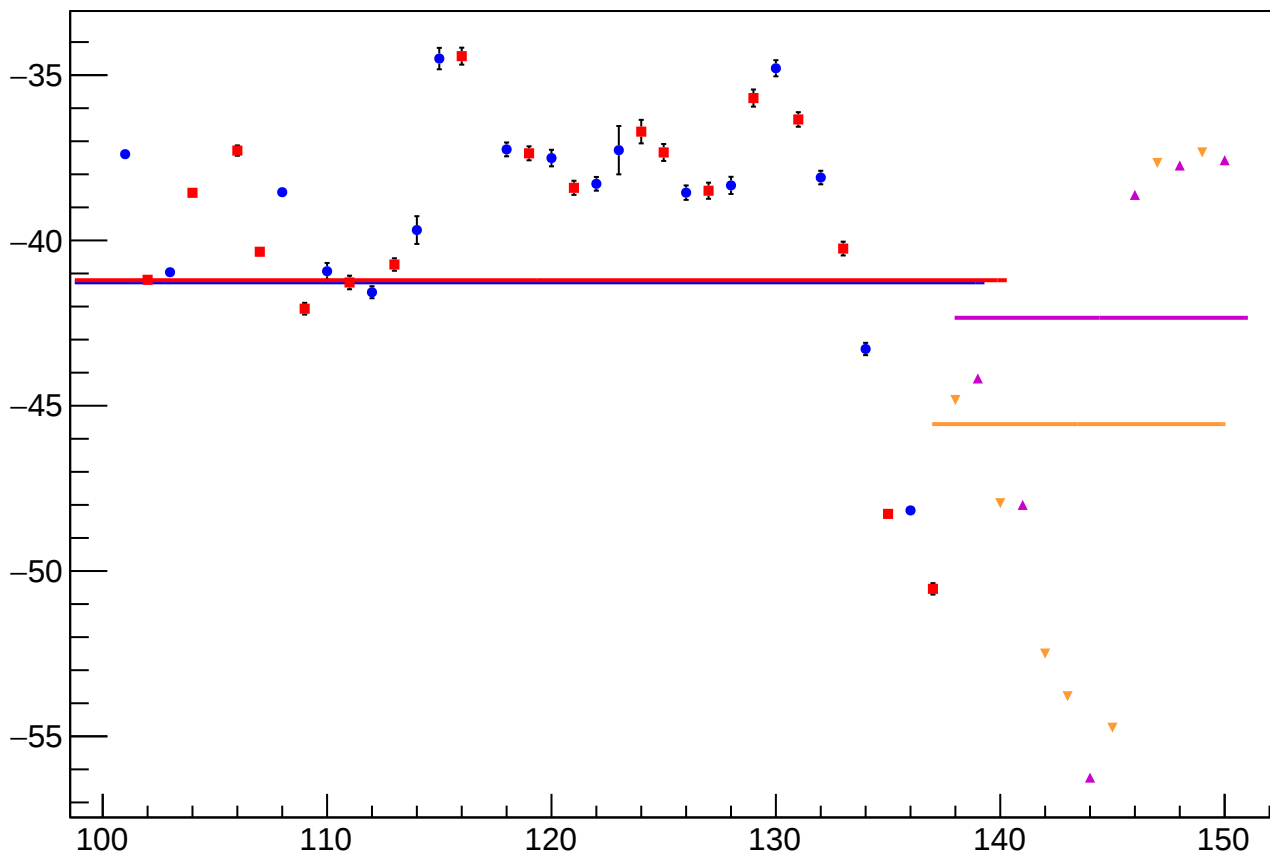
Right: 9.008 $\pm$ 0.517  $\chi^2$ /NDF: 823.3/34

In: 10.683 $\pm$ 0.468  $\chi^2$ /NDF:723.7/22

Out: 10.647 $\pm$ 0.480  $\chi^2$ /NDF:905.6/24

All: 10.665 $\pm$ 0.335  $\chi^2$ /NDF: 1629.3/47

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -41.267+/-0.039  $\chi^2/\text{NDF}$ : 12581.8/16

Left Out: -45.557+/-0.032  $\chi^2/\text{NDF}$ : 45389.9/6

Right Out: -41.204+/-0.039  $\chi^2/\text{NDF}$ : 12008.6/17

Left In: -42.340+/-0.031  $\chi^2/\text{NDF}$ : 37127.7/5

Left: -43.901+/-0.022  $\chi^2/\text{NDF}$ : 87640.6/12

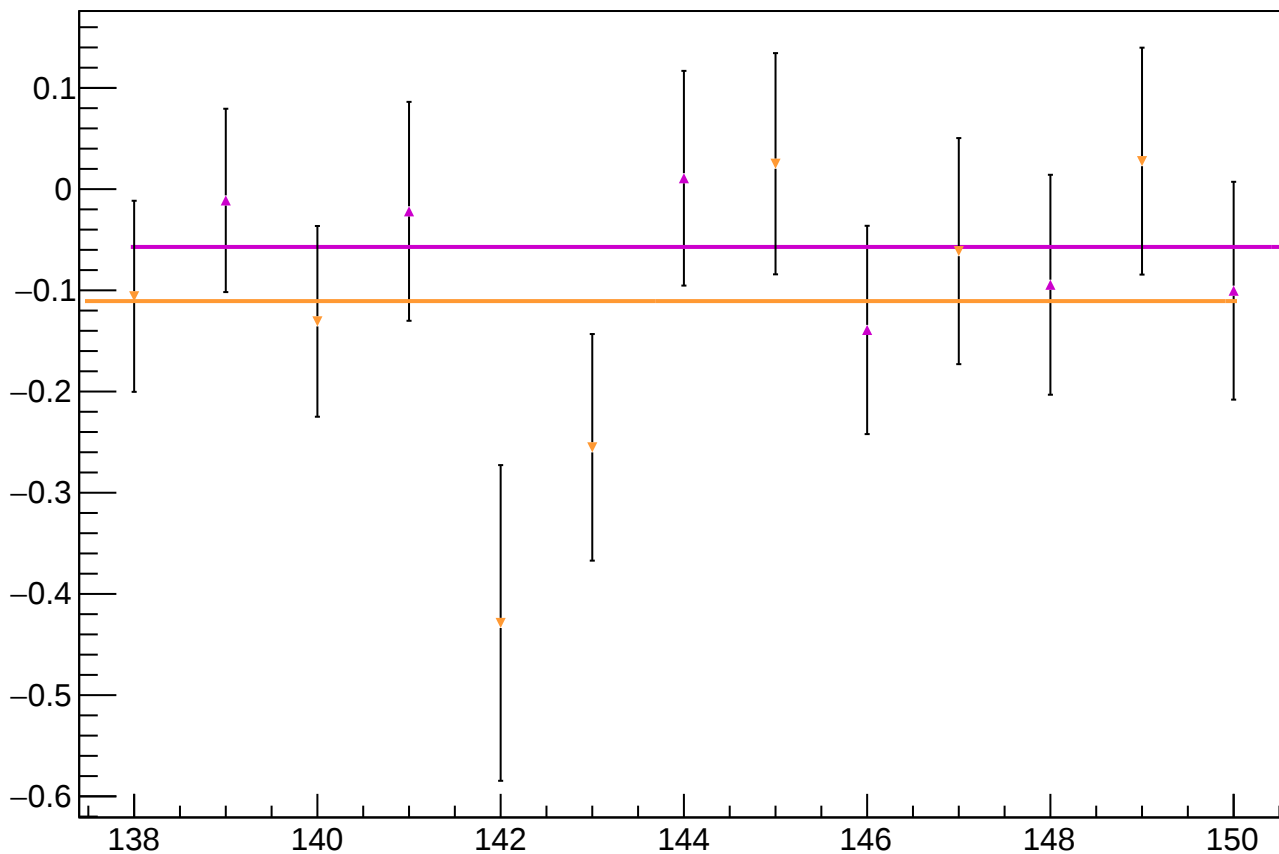
Right: -41.236+/-0.027  $\chi^2/\text{NDF}$ : 24591.7/34

In: -41.913+/-0.024  $\chi^2/\text{NDF}$ : 50176.6/22

Out: -43.781+/-0.025  $\chi^2/\text{NDF}$ : 64832.5/24

All: -42.827+/-0.017  $\chi^2/\text{NDF}$ : 117901.4/47

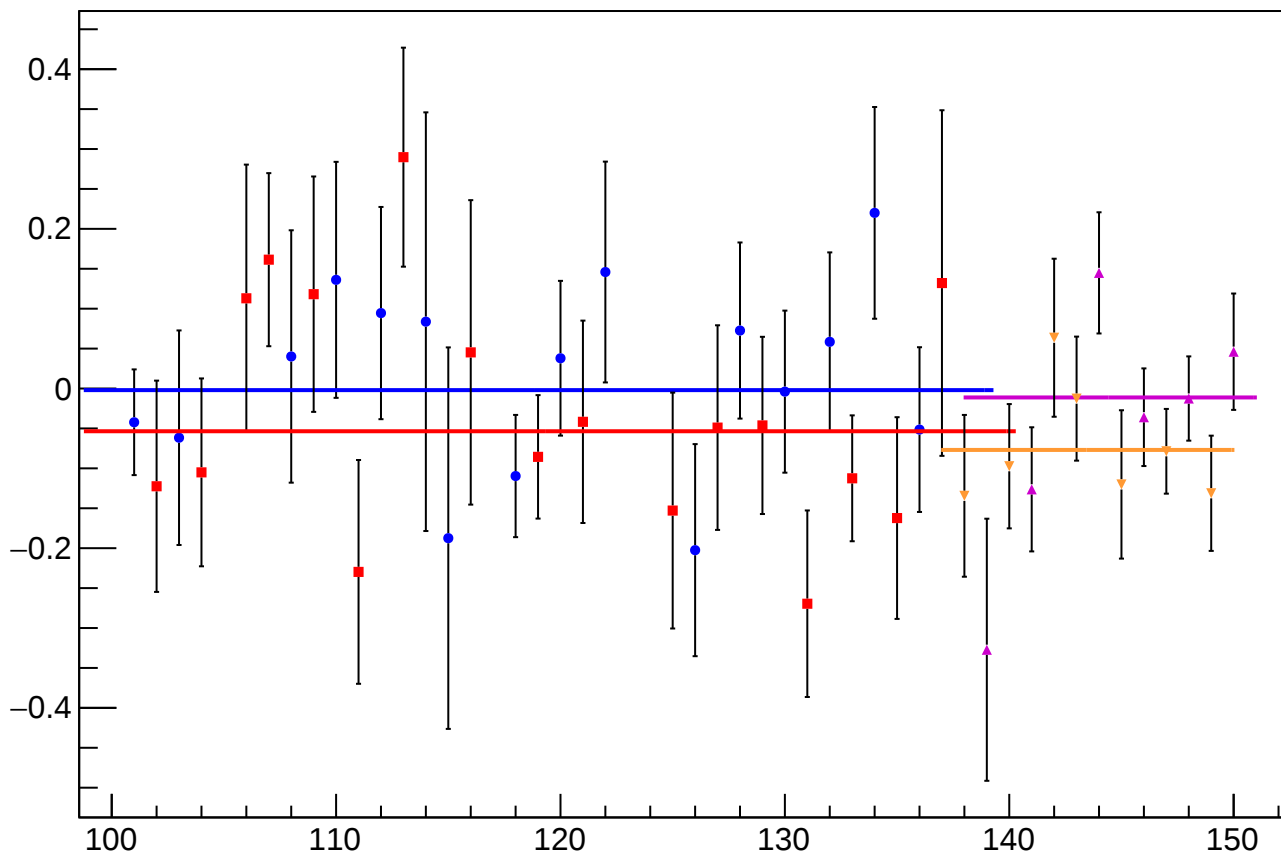
reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.111 $\pm$ 0.041  $\chi^2$ /NDF:9.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.057 $\pm$ 0.042  $\chi^2$ /NDF:1.7/5

Left: -0.085 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.057 $\pm$ 0.042  $\chi^2$ /NDF:1.7/5  
 Out: -0.111 $\pm$ 0.041  $\chi^2$ /NDF:9.1/6  
 All: -0.085 $\pm$ 0.029  $\chi^2$ /NDF: 11.6/12

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:  $-0.077 \pm 0.029$   $\chi^2/\text{NDF}$ : 3.9/6

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

Left In:  $-0.011 \pm 0.029$   $\chi^2/\text{NDF}$ : 10.9/5

Left:  $-0.044 \pm 0.020$   $\chi^2/\text{NDF}$ : 17.4/12

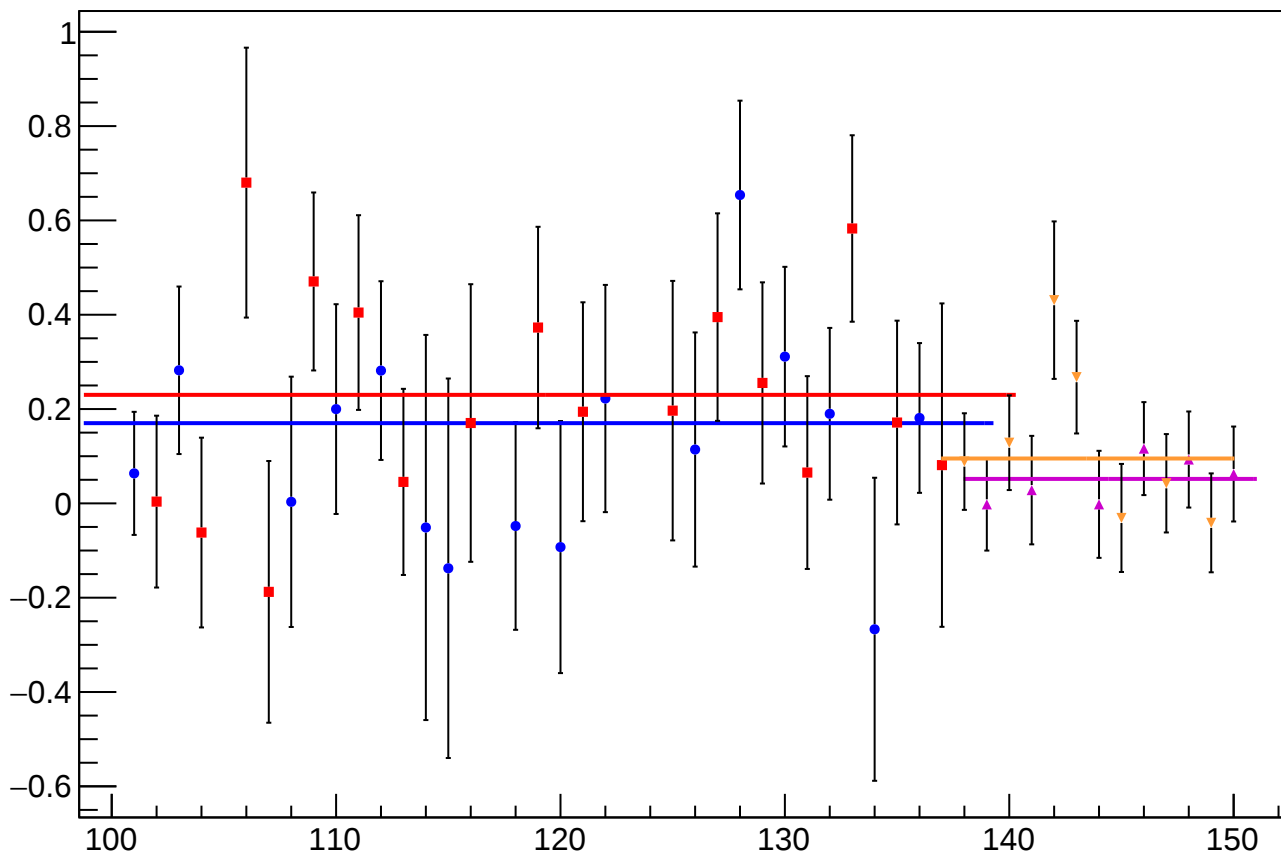
Right:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}$ : 34.6/32

In:  $-0.006 \pm 0.020$   $\chi^2/\text{NDF}$ : 23.1/21

Out:  $-0.065 \pm 0.021$   $\chi^2/\text{NDF}$ : 25.1/23

All:  $-0.035 \pm 0.014$   $\chi^2/\text{NDF}$ : 52.4/45

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}: 13.0/15$

Left Out:  $0.095 \pm 0.042$   $\chi^2/\text{NDF}: 9.4/6$

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}: 16.8/16$

Left In:  $0.052 \pm 0.042$   $\chi^2/\text{NDF}: 1.2/5$

Left:  $0.074 \pm 0.030$   $\chi^2/\text{NDF}: 11.1/12$

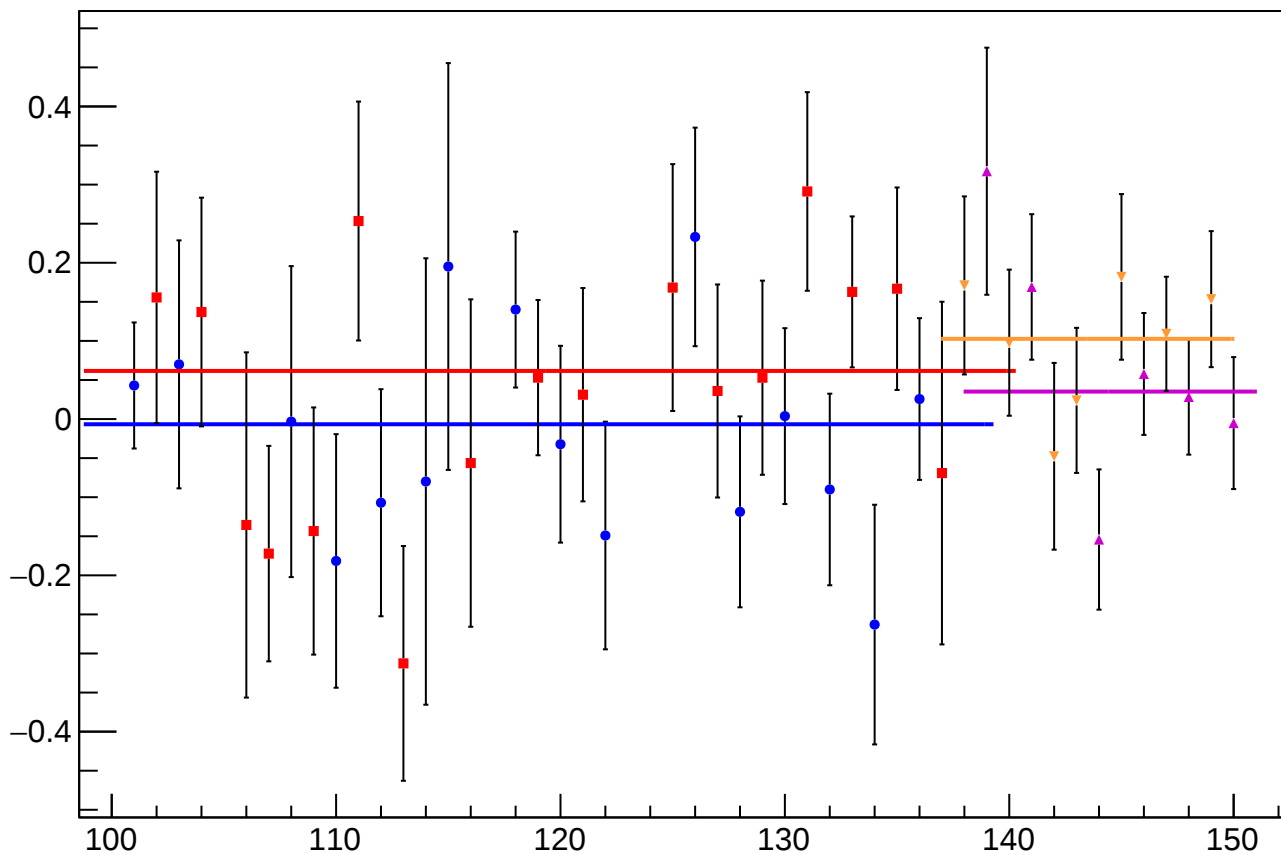
Right:  $0.199 \pm 0.038$   $\chi^2/\text{NDF}: 30.5/32$

In:  $0.099 \pm 0.033$   $\chi^2/\text{NDF}: 17.3/21$

Out:  $0.147 \pm 0.033$   $\chi^2/\text{NDF}: 30.1/23$

All:  $0.122 \pm 0.023$   $\chi^2/\text{NDF}: 48.4/45$

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:  $0.103 \pm 0.036$   $\chi^2/\text{NDF}$ : 3.6/6

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

Left In:  $0.035 \pm 0.036$   $\chi^2/\text{NDF}$ : 10.0/5

Left:  $0.069 \pm 0.025$   $\chi^2/\text{NDF}$ : 15.4/12

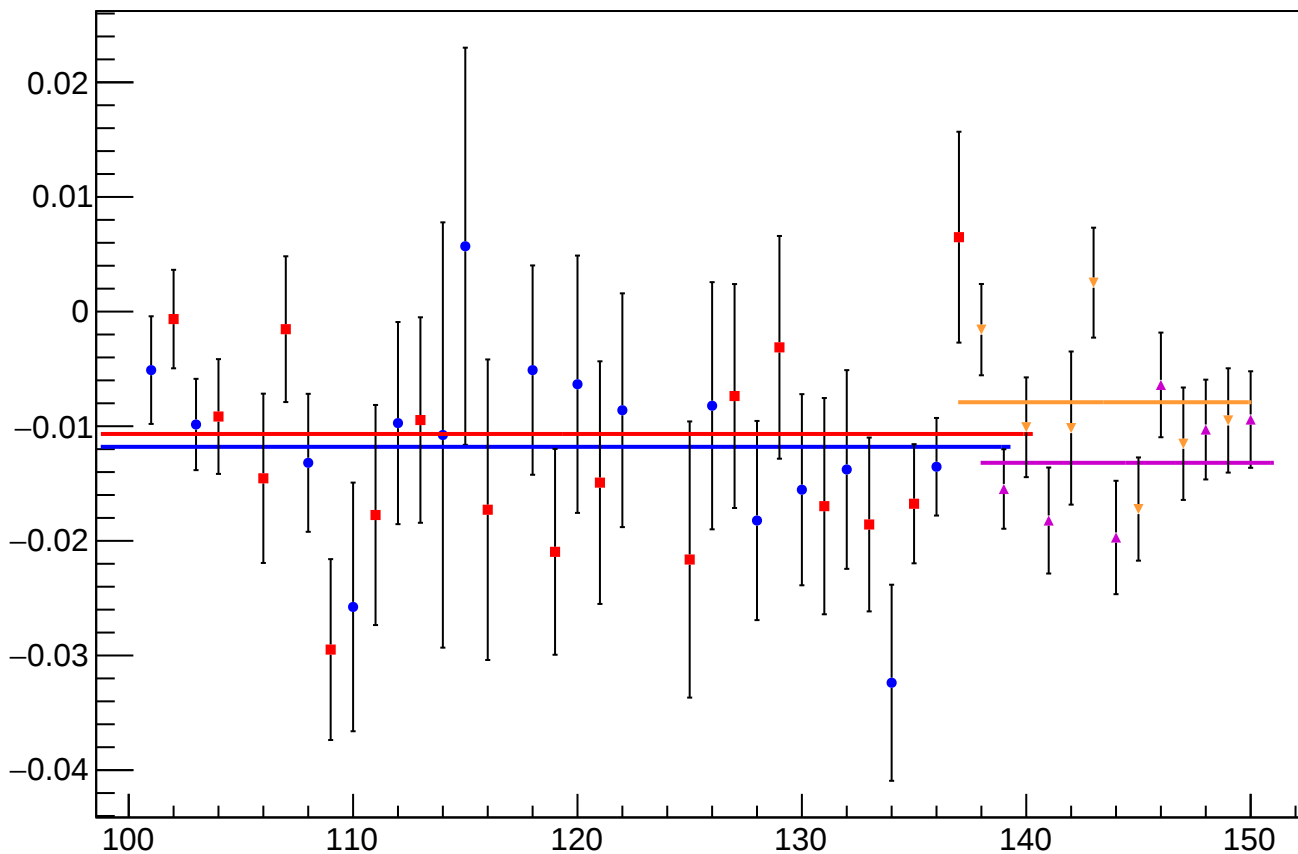
Right:  $0.026 \pm 0.023$   $\chi^2/\text{NDF}$ : 35.3/32

In:  $0.012 \pm 0.024$   $\chi^2/\text{NDF}$ : 24.0/21

Out:  $0.081 \pm 0.025$   $\chi^2/\text{NDF}$ : 24.3/23

All:  $0.046 \pm 0.017$   $\chi^2/\text{NDF}$ : 52.2/45

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:  $-0.008 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.6/6

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

Left In:  $-0.013 \pm 0.002$   $\chi^2/\text{NDF}$ : 6.8/5

Left:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 23.9/12

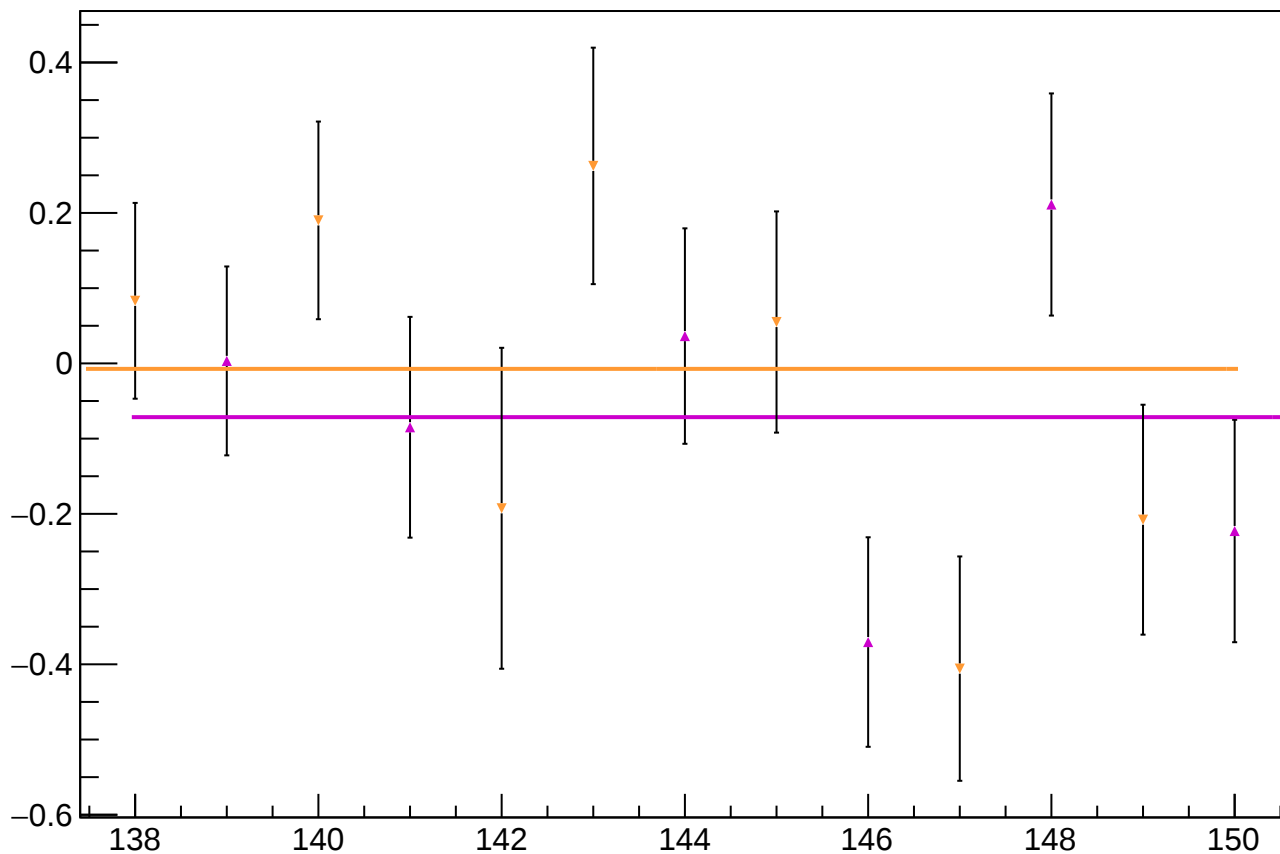
Right:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.8/32

In:  $-0.013 \pm 0.001$   $\chi^2/\text{NDF}$ : 19.9/21

Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 37.6/23

All:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 60.8/45

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: -0.007 $\pm$ 0.056  $\chi^2$ /NDF:15.5/6

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

Left In: -0.071 $\pm$ 0.058  $\chi^2$ /NDF:10.3/5

Left: -0.039 $\pm$ 0.040  $\chi^2$ /NDF: 26.4/12

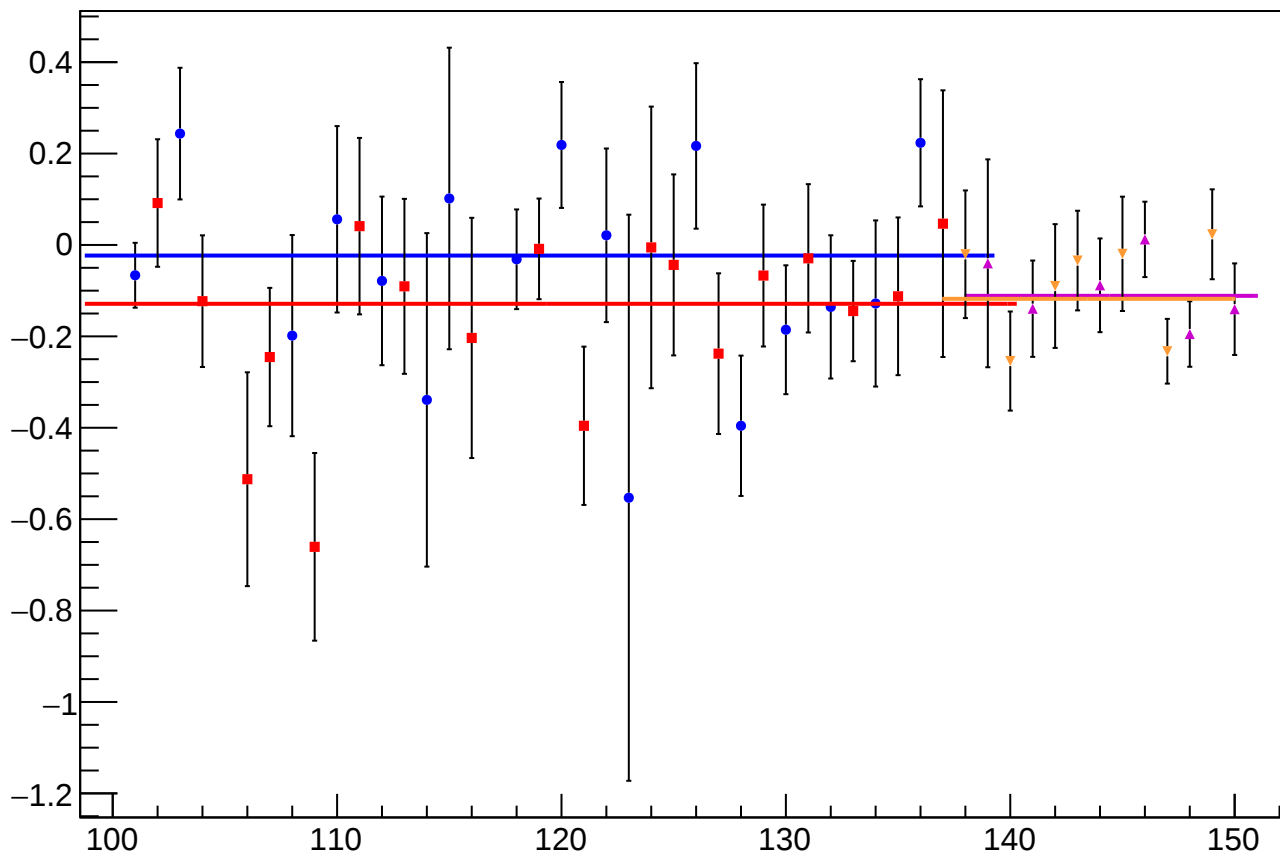
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.071 $\pm$ 0.058  $\chi^2$ /NDF:10.3/5

Out: -0.007 $\pm$ 0.056  $\chi^2$ /NDF:15.5/6

All: -0.039 $\pm$ 0.040  $\chi^2$ /NDF: 26.4/12

reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.023 \pm 0.037$   $\chi^2/\text{NDF}$ : 22.4/16

Left Out:  $-0.118 \pm 0.039$   $\chi^2/\text{NDF}$ : 8.0/6

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}$ : 18.6/17

Left In:  $-0.111 \pm 0.039$   $\chi^2/\text{NDF}$ : 3.9/5

Left:  $-0.115 \pm 0.028$   $\chi^2/\text{NDF}$ : 11.9/12

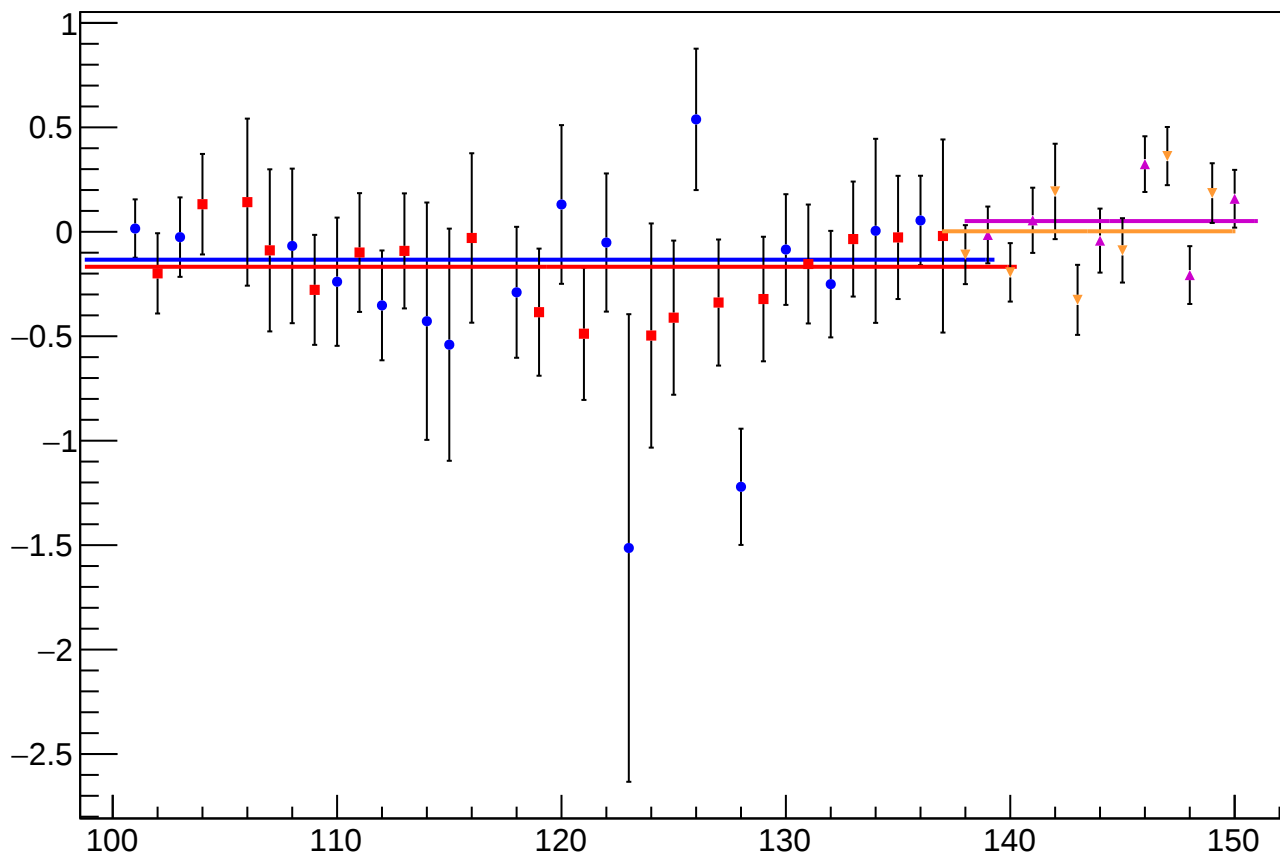
Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}$ : 44.9/34

In:  $-0.064 \pm 0.027$   $\chi^2/\text{NDF}$ : 29.0/22

Out:  $-0.123 \pm 0.028$   $\chi^2/\text{NDF}$ : 26.6/24

All:  $-0.092 \pm 0.019$   $\chi^2/\text{NDF}$ : 58.0/47

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:  $0.002 \pm 0.058$   $\chi^2/\text{NDF}: 15.8/6$

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}: 6.1/17$

Left In:  $0.051 \pm 0.058$   $\chi^2/\text{NDF}: 8.9/5$

Left:  $0.027 \pm 0.041$   $\chi^2/\text{NDF}: 25.0/12$

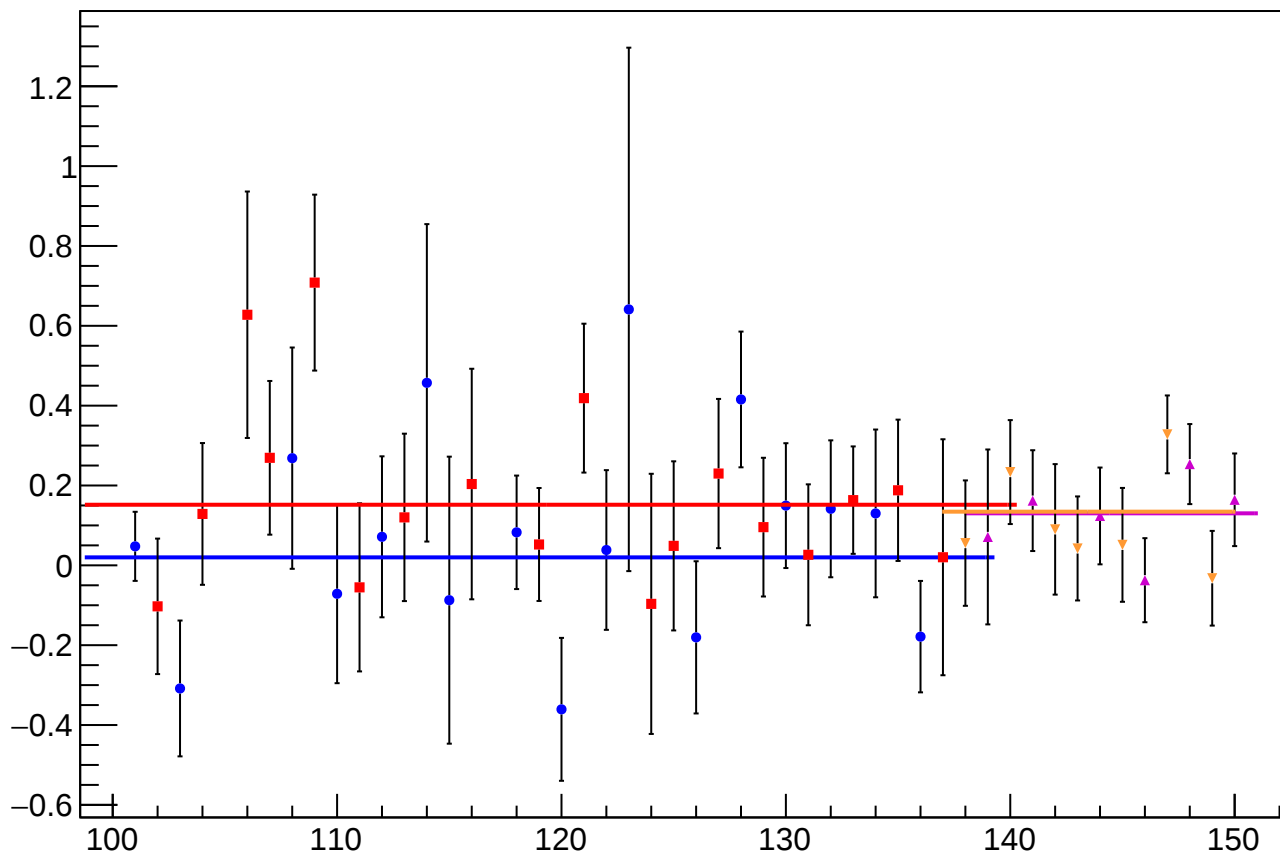
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}: 32.0/34$

In:  $-0.028 \pm 0.044$   $\chi^2/\text{NDF}: 39.0/22$

Out:  $-0.065 \pm 0.045$   $\chi^2/\text{NDF}: 25.4/24$

All:  $-0.046 \pm 0.031$   $\chi^2/\text{NDF}: 64.7/47$

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: 0.134 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 7.7/6

Right Out: 0.152 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 16.8/17

Left In: 0.130 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 4.3/5

Left: 0.132 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 11.9/12

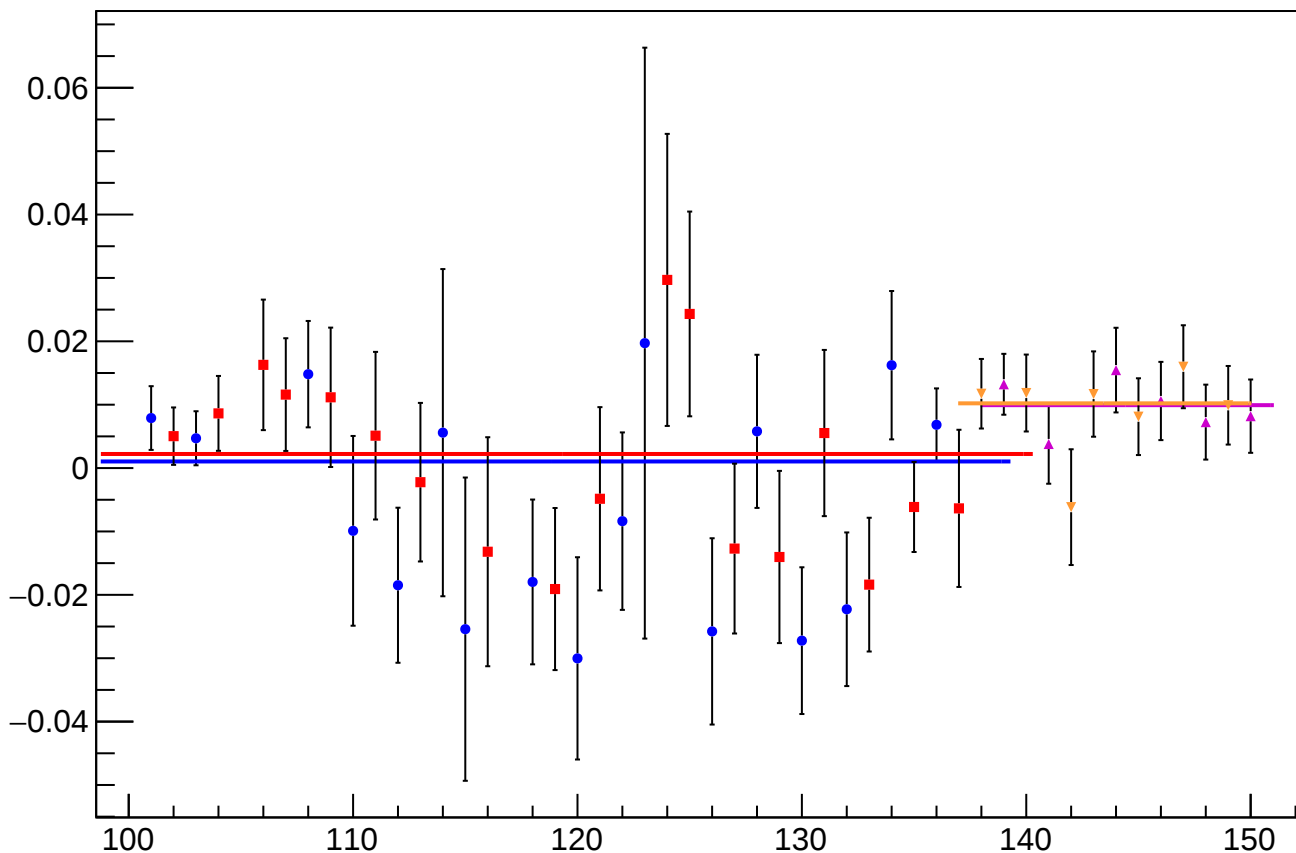
Right: 0.081 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 43.1/34

In: 0.067 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 29.0/22

Out: 0.144 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 24.5/24

All: 0.104 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 56.3/47

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 32.0/16

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF:4.3/6

Right Out: 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 20.8/17

Left In: 0.010 $\pm$ 0.002  $\chi^2$ /NDF:2.4/5

Left: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.7/12

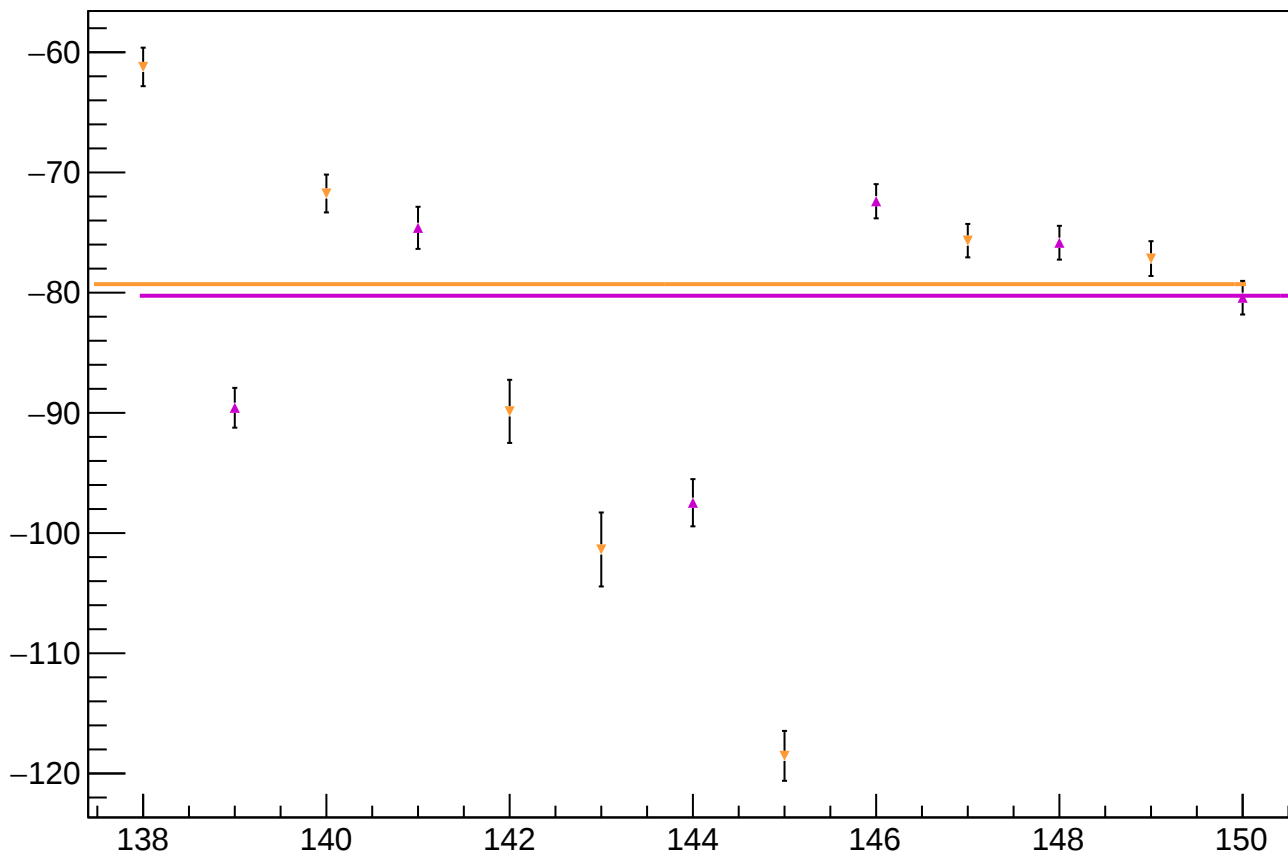
Right: 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 53.0/34

In: 0.005 $\pm$ 0.002  $\chi^2$ /NDF:41.8/22

Out: 0.006 $\pm$ 0.002  $\chi^2$ /NDF:30.9/24

All: 0.006 $\pm$ 0.001  $\chi^2$ /NDF: 72.9/47

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: -79.292+/-0.664  $\chi^2/\text{NDF}$ :584.3/6

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

Left In: -80.256+/-0.637  $\chi^2/\text{NDF}$ :159.4/5

Left: -79.793+/-0.460  $\chi^2/\text{NDF}$ : 744.8/12

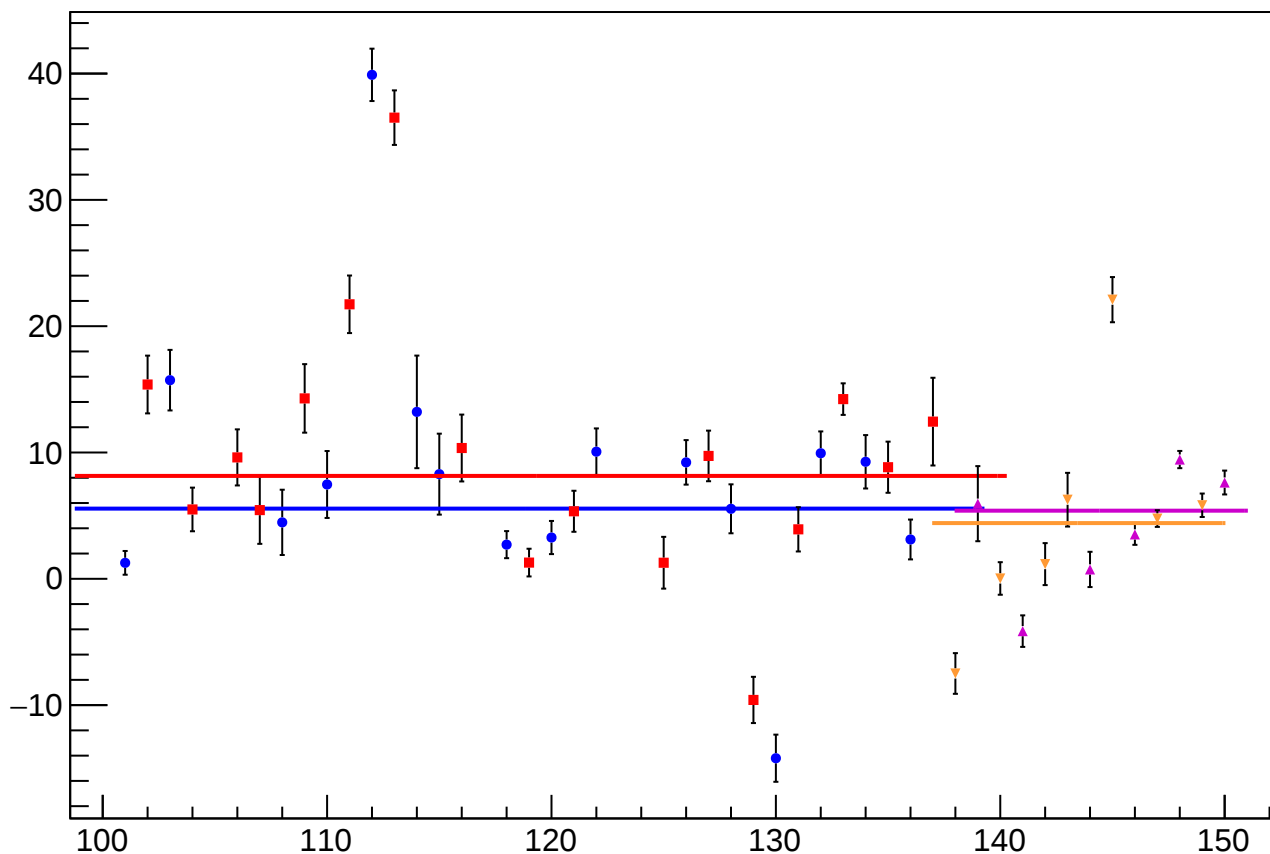
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -80.256+/-0.637  $\chi^2/\text{NDF}$ :159.4/5

Out: -79.292+/-0.664  $\chi^2/\text{NDF}$ :584.3/6

All: -79.793+/-0.460  $\chi^2/\text{NDF}$ : 744.8/12

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $5.557 \pm 0.424$   $\chi^2/\text{NDF}: 462.0/15$

Left Out:  $4.412 \pm 0.432$   $\chi^2/\text{NDF}: 171.2/6$

Right Out:  $8.146 \pm 0.454$   $\chi^2/\text{NDF}: 406.8/16$

Left In:  $5.394 \pm 0.408$   $\chi^2/\text{NDF}: 115.5/5$

Left:  $4.931 \pm 0.297$   $\chi^2/\text{NDF}: 289.4/12$

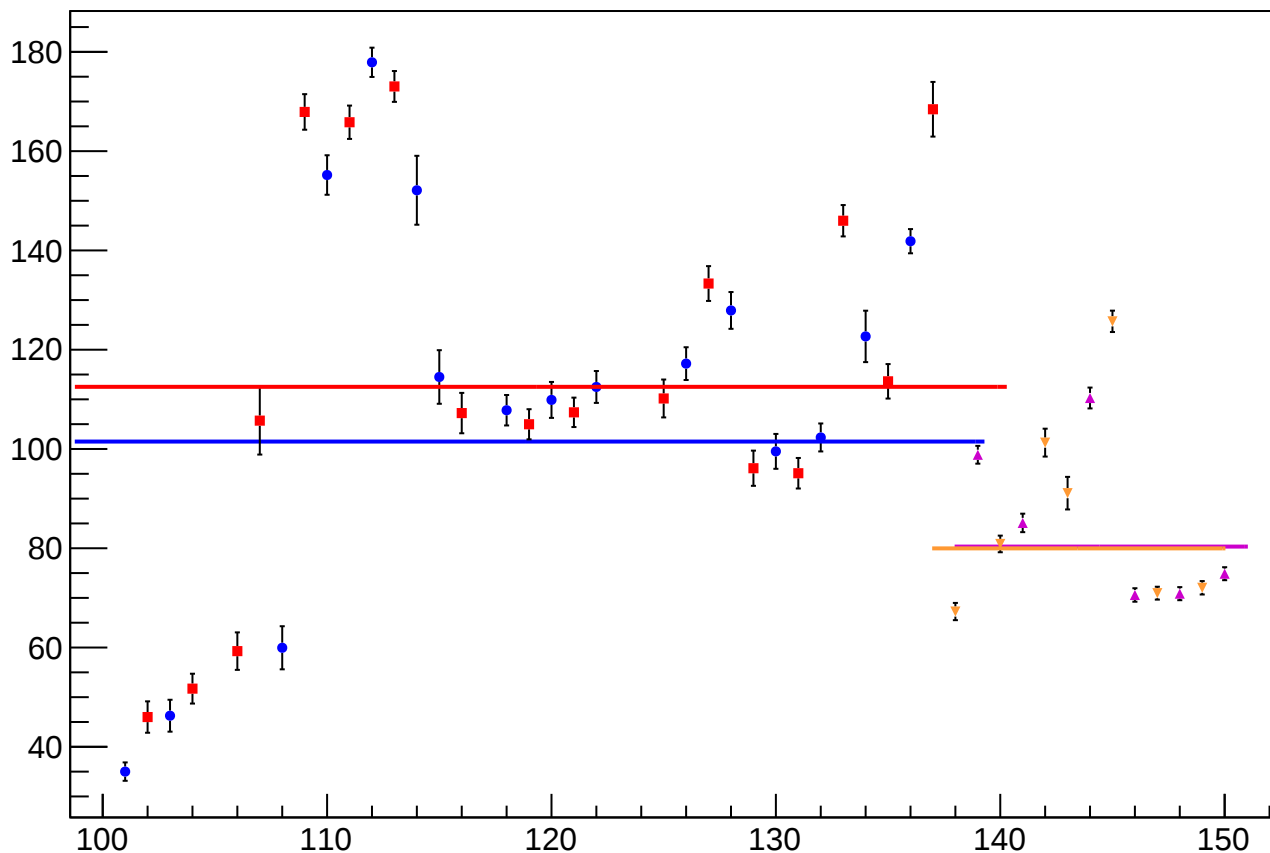
Right:  $6.763 \pm 0.310$   $\chi^2/\text{NDF}: 886.1/32$

In:  $5.473 \pm 0.294$   $\chi^2/\text{NDF}: 577.5/21$

Out:  $6.187 \pm 0.313$   $\chi^2/\text{NDF}: 613.4/23$

All:  $5.807 \pm 0.214$   $\chi^2/\text{NDF}: 1193.8/45$

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 101.496 $\pm$ 0.808  $\chi^2$ /NDF: 2973.0/15

Left Out: 79.973 $\pm$ 0.665  $\chi^2$ /NDF: 656.4/6

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

Left In: 80.337 $\pm$ 0.629  $\chi^2$ /NDF: 436.8/5

Left: 80.165 $\pm$ 0.457  $\chi^2$ /NDF: 1093.4/12

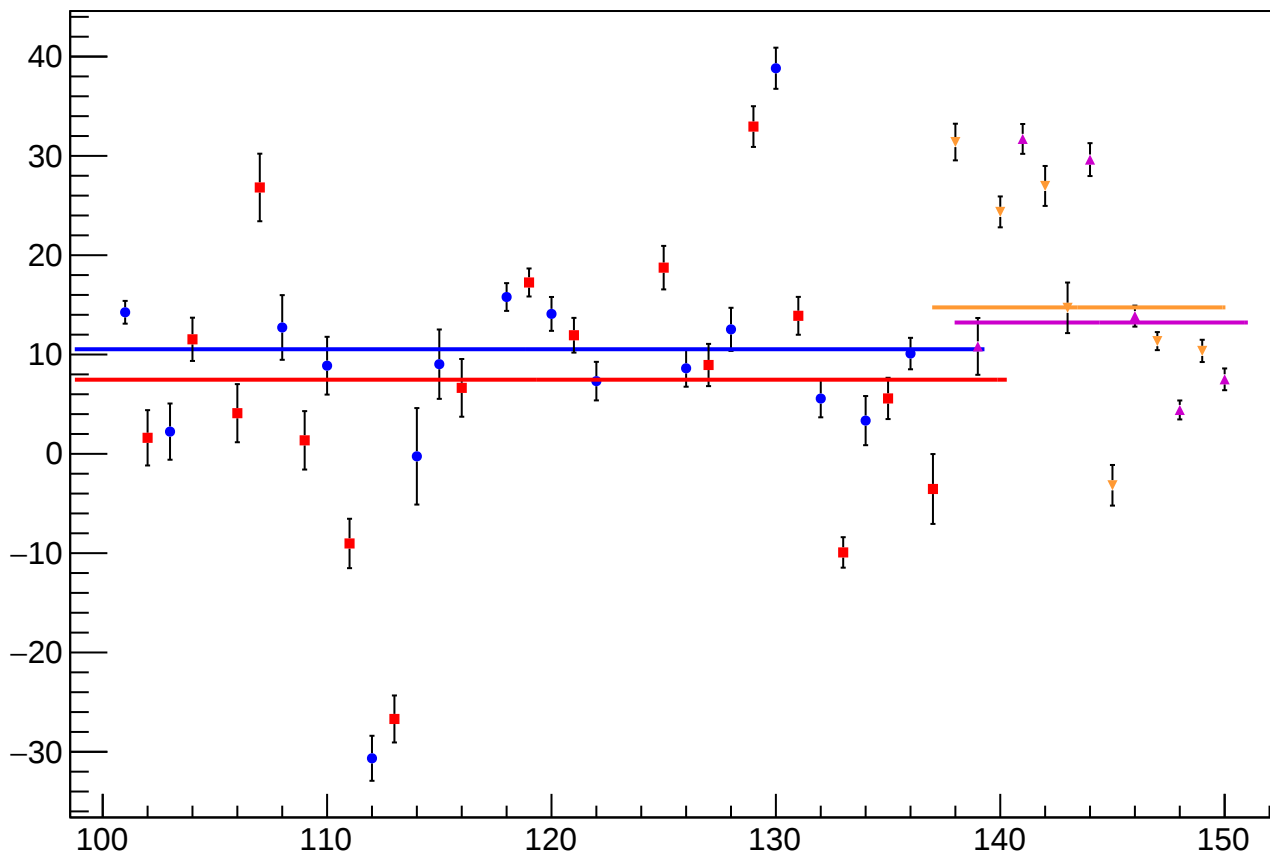
Right: 106.775 $\pm$ 0.583  $\chi^2$ /NDF: 5299.0/32

In: 88.319 $\pm$ 0.496  $\chi^2$ /NDF: 3836.5/21

Out: 92.451 $\pm$ 0.522  $\chi^2$ /NDF: 3812.1/23

All: 90.281 $\pm$ 0.360  $\chi^2$ /NDF: 7681.5/45

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.532 $\pm$ 0.493  $\chi^2$ /NDF: 580.3/15

Left Out: 14.745 $\pm$ 0.546  $\chi^2$ /NDF: 262.4/6

Right Out: 7.466 $\pm$ 0.525  $\chi^2$ /NDF: 685.0/16

Left In: 13.224 $\pm$ 0.516  $\chi^2$ /NDF: 363.0/5

Left: 13.942 $\pm$ 0.375  $\chi^2$ /NDF: 629.5/12

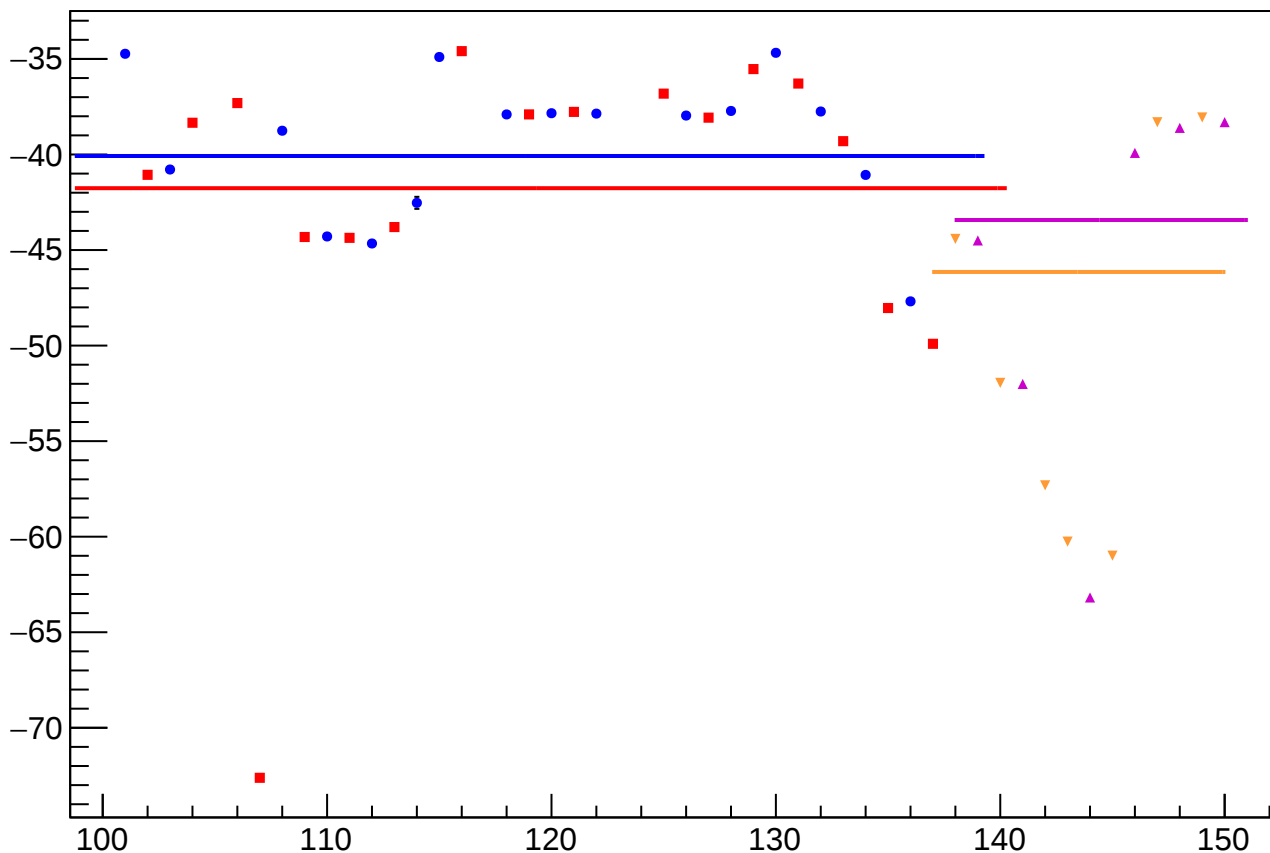
Right: 9.096 $\pm$ 0.359  $\chi^2$ /NDF: 1283.4/32

In: 11.816 $\pm$ 0.356  $\chi^2$ /NDF: 957.5/21

Out: 10.964 $\pm$ 0.378  $\chi^2$ /NDF: 1039.8/23

All: 11.416 $\pm$ 0.259  $\chi^2$ /NDF: 2000.0/45

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -40.079+/-0.028  $\chi^2/\text{NDF}$ : 25147.0/15

Left Out: -46.147+/-0.029  $\chi^2/\text{NDF}$ : 93697.7/6

Right Out: -41.764+/-0.029  $\chi^2/\text{NDF}$ : 60249.3/16

Left In: -43.428+/-0.026  $\chi^2/\text{NDF}$ : 78428.5/5

Left: -44.676+/-0.019  $\chi^2/\text{NDF}$ : 177036.4/12

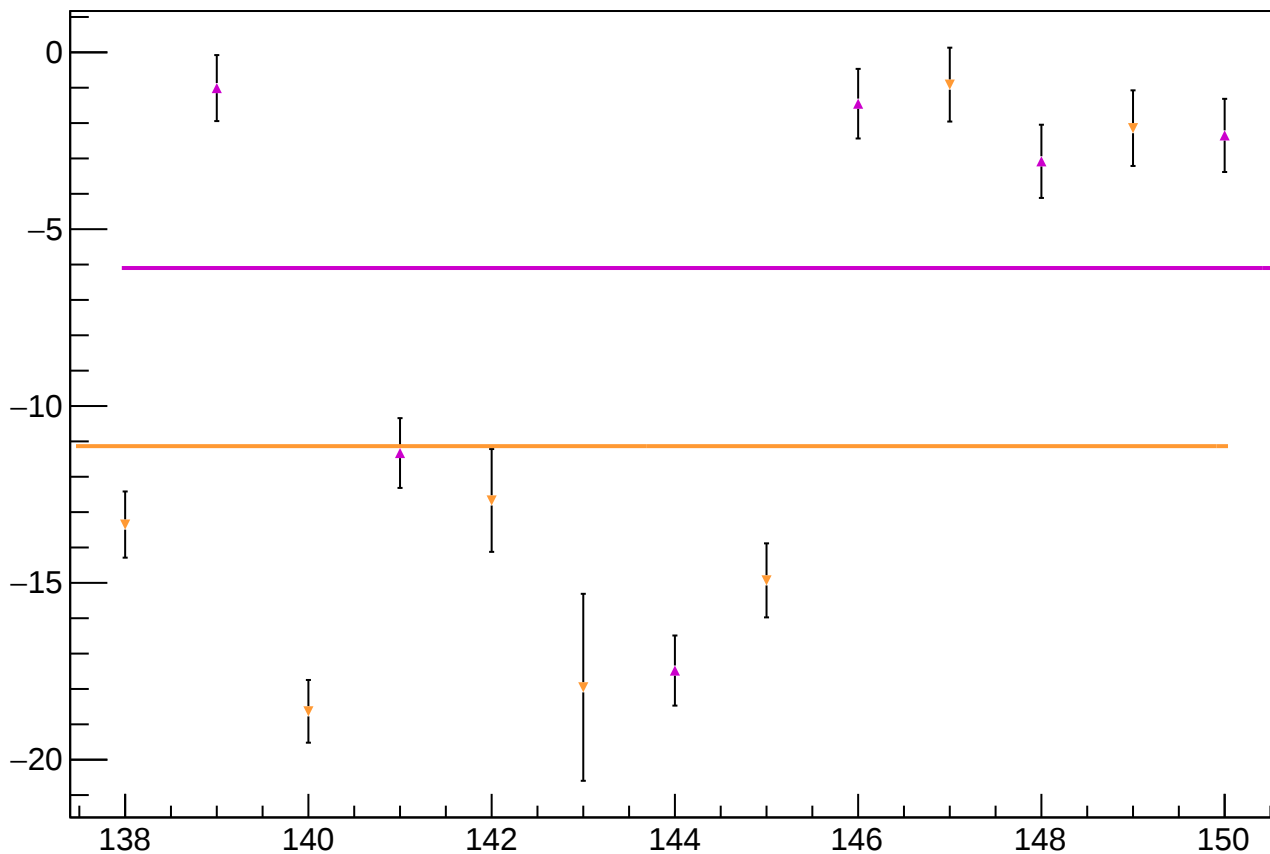
Right: -40.903+/-0.020  $\chi^2/\text{NDF}$ : 87139.1/32

In: -41.873+/-0.019  $\chi^2/\text{NDF}$ : 111119.4/21

Out: -43.979+/-0.020  $\chi^2/\text{NDF}$ : 165616.1/23

All: -42.870+/-0.014  $\chi^2/\text{NDF}$ : 282415.0/45

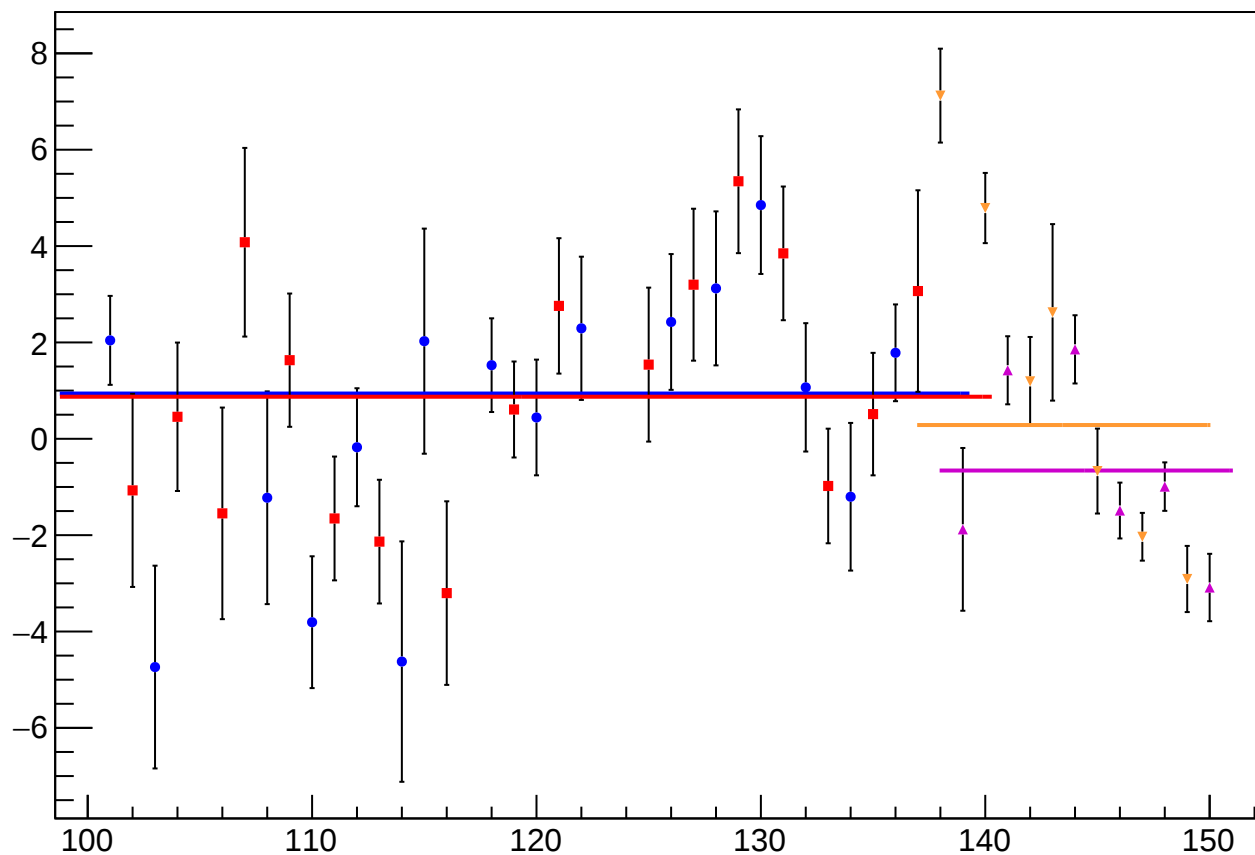
reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -11.134+/-0.418  $\chi^2/\text{NDF}$ :264.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.098+/-0.405  $\chi^2/\text{NDF}$ :233.6/5

Left: -8.540+/-0.291  $\chi^2/\text{NDF}$ : 573.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.098+/-0.405  $\chi^2/\text{NDF}$ :233.6/5  
 Out: -11.134+/-0.418  $\chi^2/\text{NDF}$ :264.5/6  
 All: -8.540+/-0.291  $\chi^2/\text{NDF}$ : 573.1/12

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: 0.286 $\pm$ 0.290  $\chi^2/\text{NDF}$ :134.7/6

Right Out: 0.873 $\pm$ 0.354  $\chi^2/\text{NDF}$ : 40.6/16

Left In: -0.659 $\pm$ 0.274  $\chi^2/\text{NDF}$ :36.4/5

Left: -0.213 $\pm$ 0.199  $\chi^2/\text{NDF}$ : 176.7/12

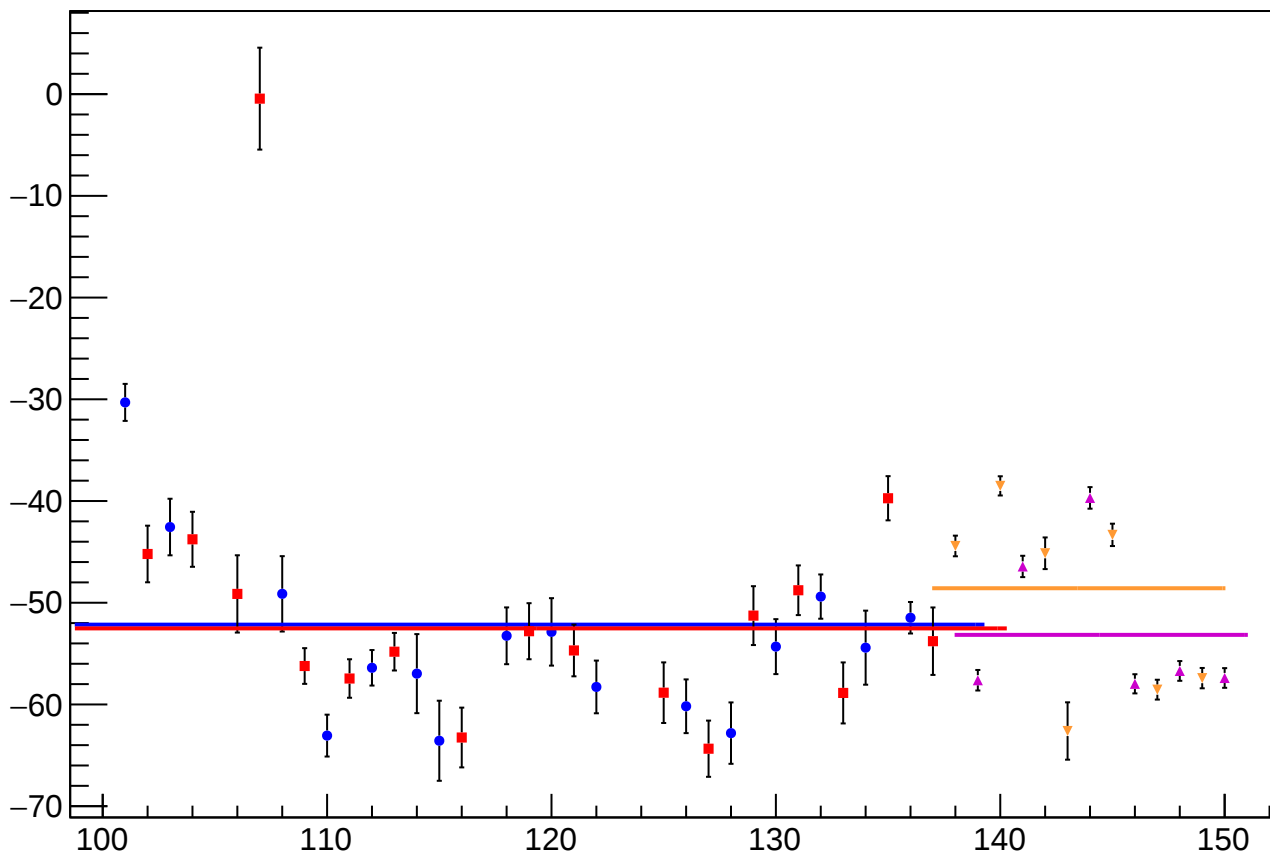
Right: 0.908 $\pm$ 0.245  $\chi^2/\text{NDF}$ : 82.8/32

In: -0.027 $\pm$ 0.213  $\chi^2/\text{NDF}$ :92.0/21

Out: 0.522 $\pm$ 0.224  $\chi^2/\text{NDF}$ :176.9/23

All: 0.233 $\pm$ 0.154  $\chi^2/\text{NDF}$ : 272.1/45

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:  $-48.575 \pm 0.426$   $\chi^2/\text{NDF}$ : 365.4/6

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

Left In:  $-53.159 \pm 0.407$   $\chi^2/\text{NDF}$ : 280.6/5

Left:  $-50.971 \pm 0.294$   $\chi^2/\text{NDF}$ : 706.5/12

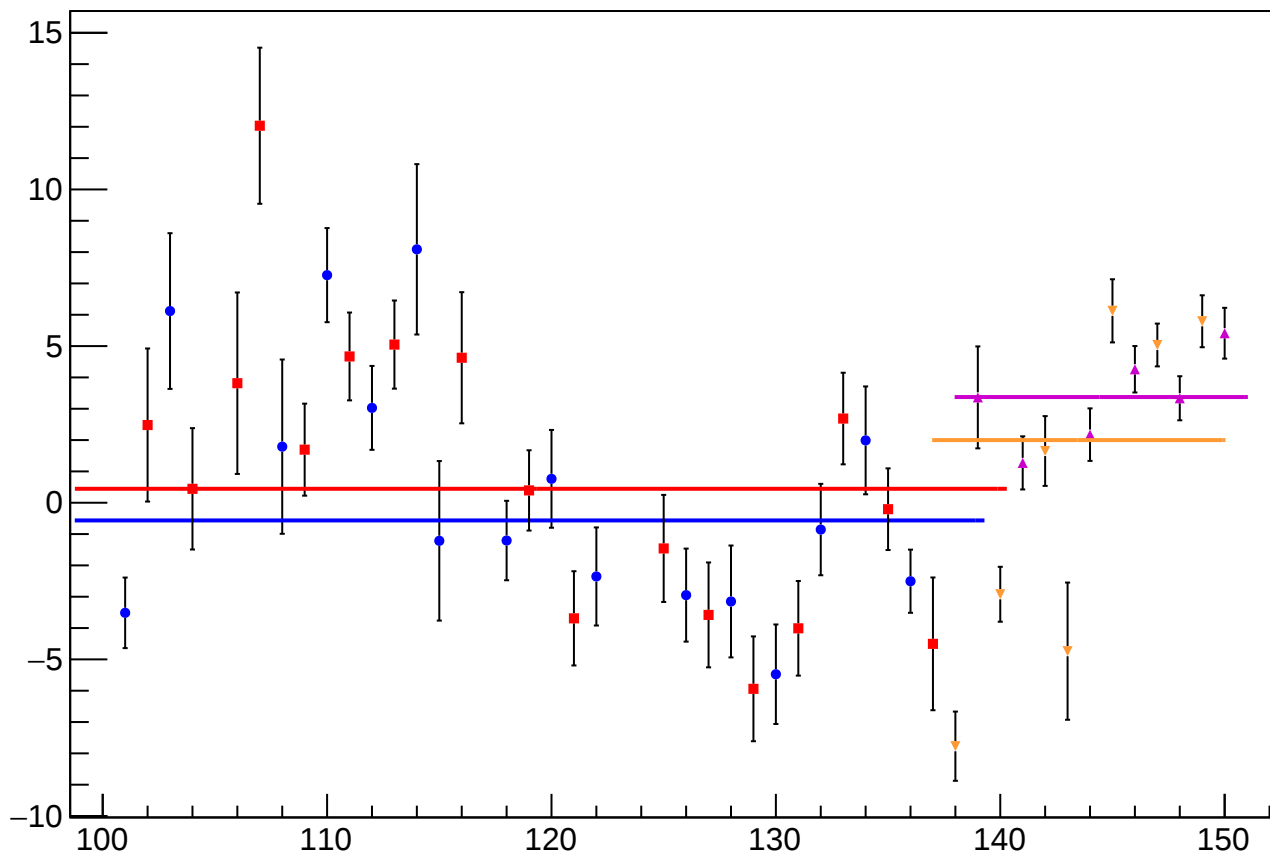
Right:  $-52.337 \pm 0.435$   $\chi^2/\text{NDF}$ : 449.0/32

In:  $-52.851 \pm 0.339$   $\chi^2/\text{NDF}$ : 513.5/21

Out:  $-49.847 \pm 0.351$   $\chi^2/\text{NDF}$ : 610.7/23

All:  $-51.400 \pm 0.244$   $\chi^2/\text{NDF}$ : 1162.2/45

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:  $1.999 \pm 0.360$   $\chi^2/\text{NDF}$ : 176.7/6

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

Left In:  $3.374 \pm 0.342$   $\chi^2/\text{NDF}$ : 15.9/5

Left:  $2.722 \pm 0.248$   $\chi^2/\text{NDF}$ : 200.4/12

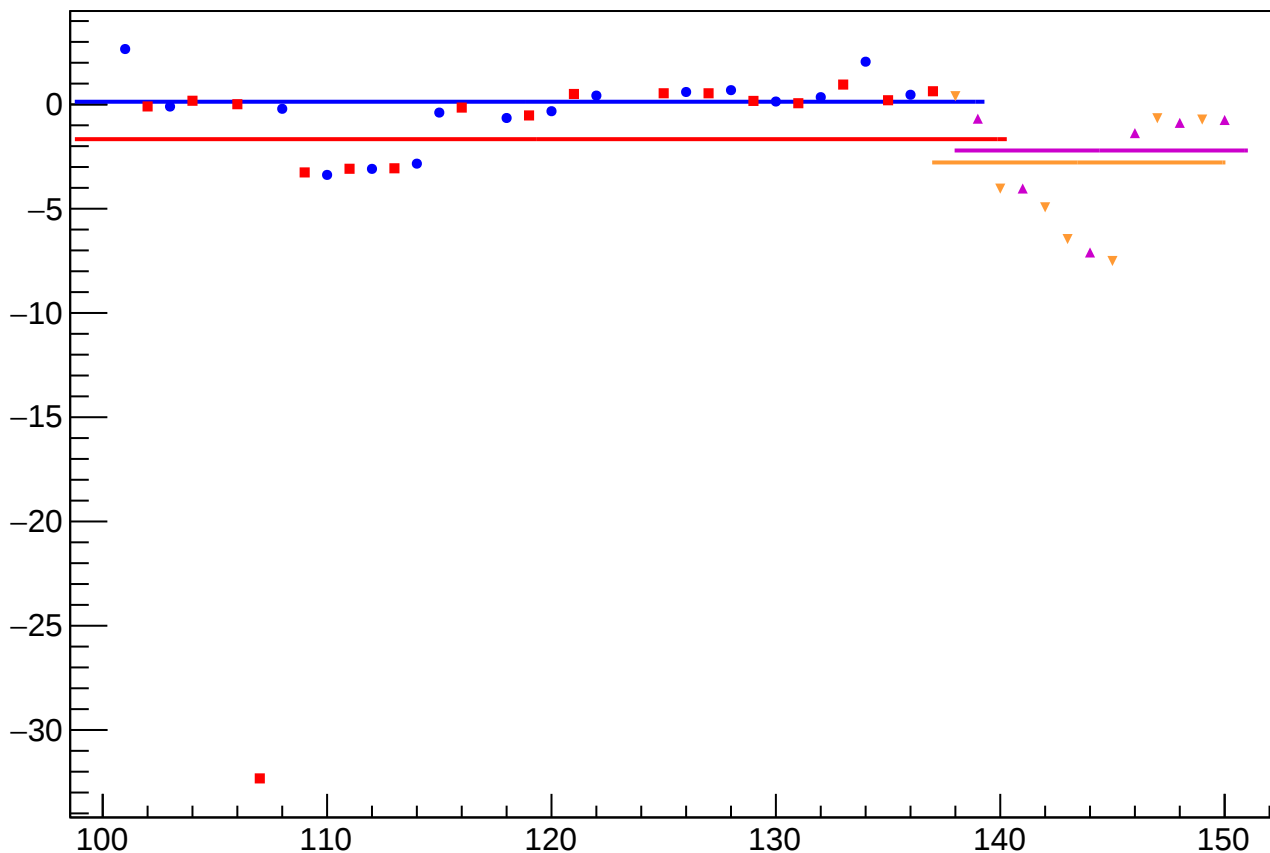
Right:  $-0.080 \pm 0.277$   $\chi^2/\text{NDF}$ : 179.3/32

In:  $1.634 \pm 0.255$   $\chi^2/\text{NDF}$ : 156.4/21

Out:  $1.304 \pm 0.268$   $\chi^2/\text{NDF}$ : 279.2/23

All:  $1.477 \pm 0.185$   $\chi^2/\text{NDF}$ : 436.4/45

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:  $-2.782 \pm 0.018$   $\chi^2/\text{NDF}$ : 25931.0/6

Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}$ : 77602.8/16

Left In:  $-2.208 \pm 0.017$   $\chi^2/\text{NDF}$ : 17526.6/5

Left:  $-2.477 \pm 0.012$   $\chi^2/\text{NDF}$ : 44002.1/12

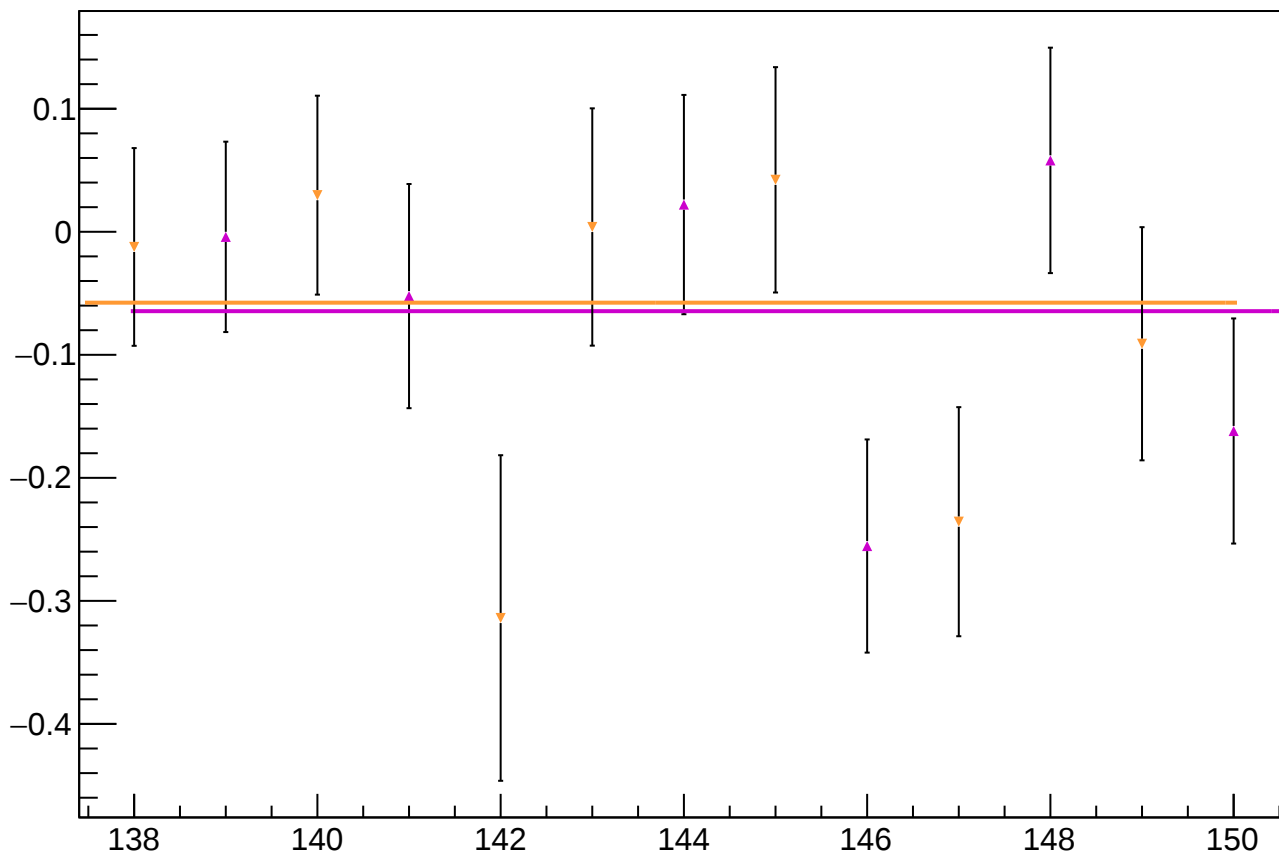
Right:  $-0.752 \pm 0.015$   $\chi^2/\text{NDF}$ : 86255.5/32

In:  $-1.320 \pm 0.013$   $\chi^2/\text{NDF}$ : 30085.4/21

Out:  $-2.333 \pm 0.014$   $\chi^2/\text{NDF}$ : 105092.2/23

All:  $-1.803 \pm 0.010$   $\chi^2/\text{NDF}$ : 137963.9/45

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: -0.058+/-0.035  $\chi^2/\text{NDF}$ :10.6/6

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

Left In: -0.065+/-0.036  $\chi^2/\text{NDF}$ :9.4/5

Left: -0.061+/-0.025  $\chi^2/\text{NDF}$ : 20.0/12

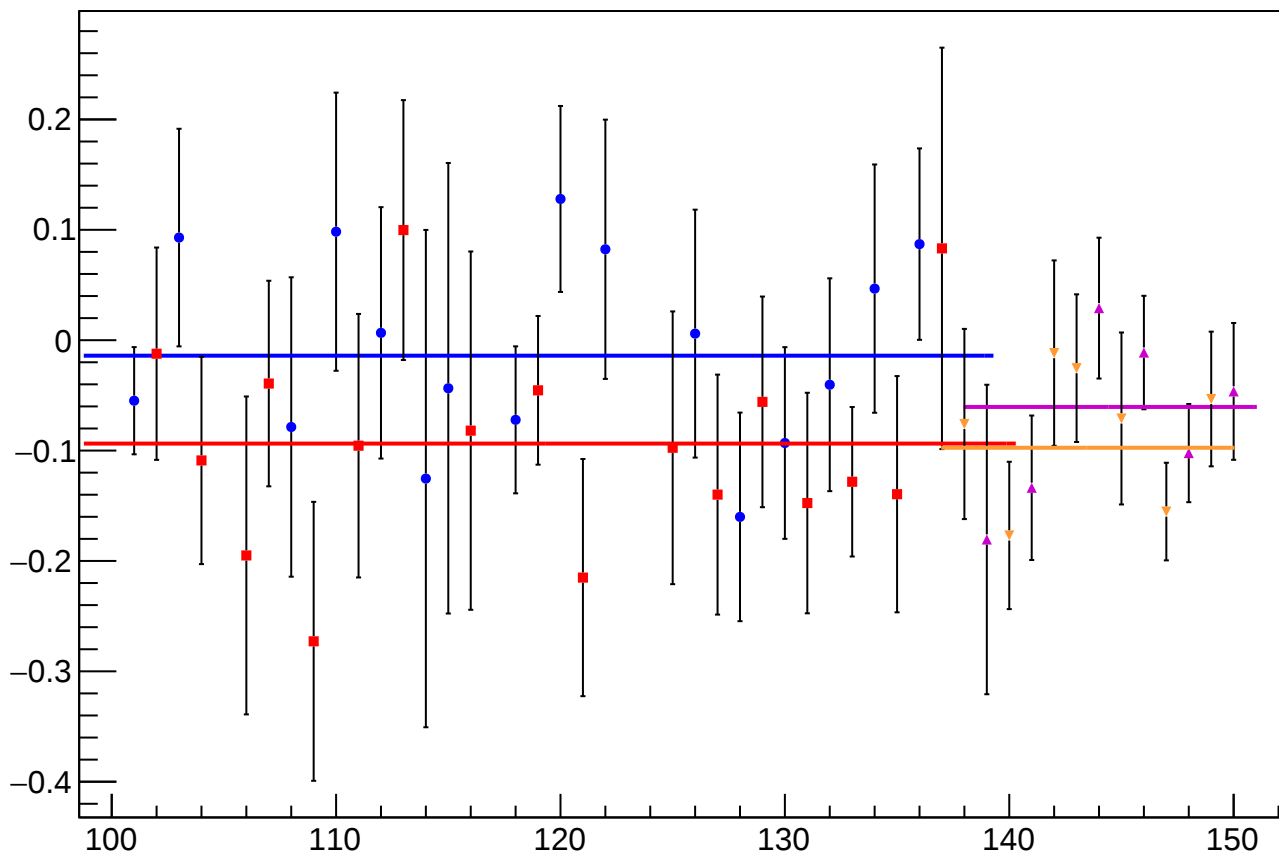
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.065+/-0.036  $\chi^2/\text{NDF}$ :9.4/5

Out: -0.058+/-0.035  $\chi^2/\text{NDF}$ :10.6/6

All: -0.061+/-0.025  $\chi^2/\text{NDF}$ : 20.0/12

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:  $-0.097 \pm 0.024$   $\chi^2/\text{NDF}$ : 6.0/6

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

Left In:  $-0.060 \pm 0.024$   $\chi^2/\text{NDF}$ : 5.8/5

Left:  $-0.079 \pm 0.017$   $\chi^2/\text{NDF}$ : 13.0/12

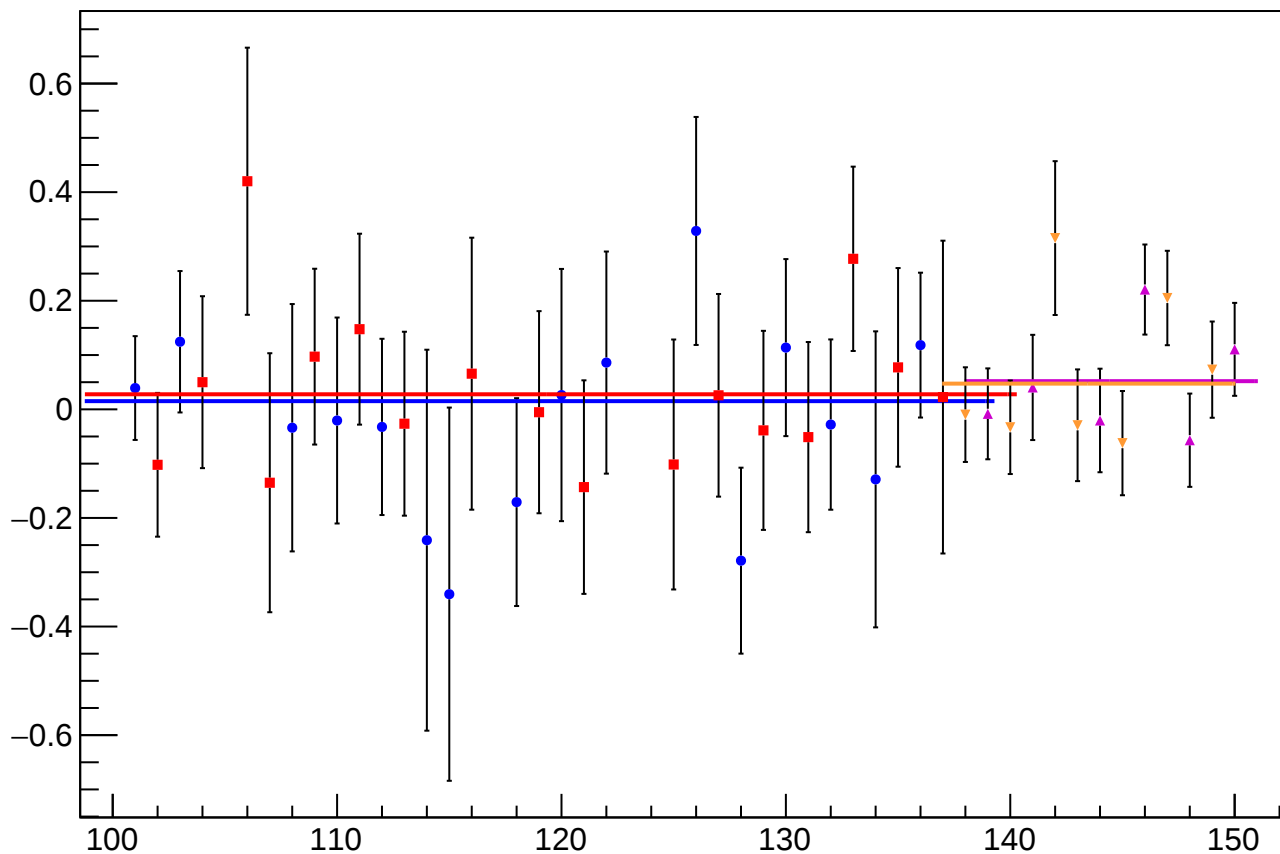
Right:  $-0.051 \pm 0.017$   $\chi^2/\text{NDF}$ : 28.1/32

In:  $-0.036 \pm 0.017$   $\chi^2/\text{NDF}$ : 20.2/21

Out:  $-0.096 \pm 0.017$   $\chi^2/\text{NDF}$ : 16.1/23

All:  $-0.065 \pm 0.012$   $\chi^2/\text{NDF}$ : 42.3/45

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: 0.047 $\pm$ 0.036  $\chi^2$ /NDF:10.1/6

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

Left In: 0.052 $\pm$ 0.036  $\chi^2$ /NDF:7.3/5

Left: 0.050 $\pm$ 0.025  $\chi^2$ /NDF: 17.4/12

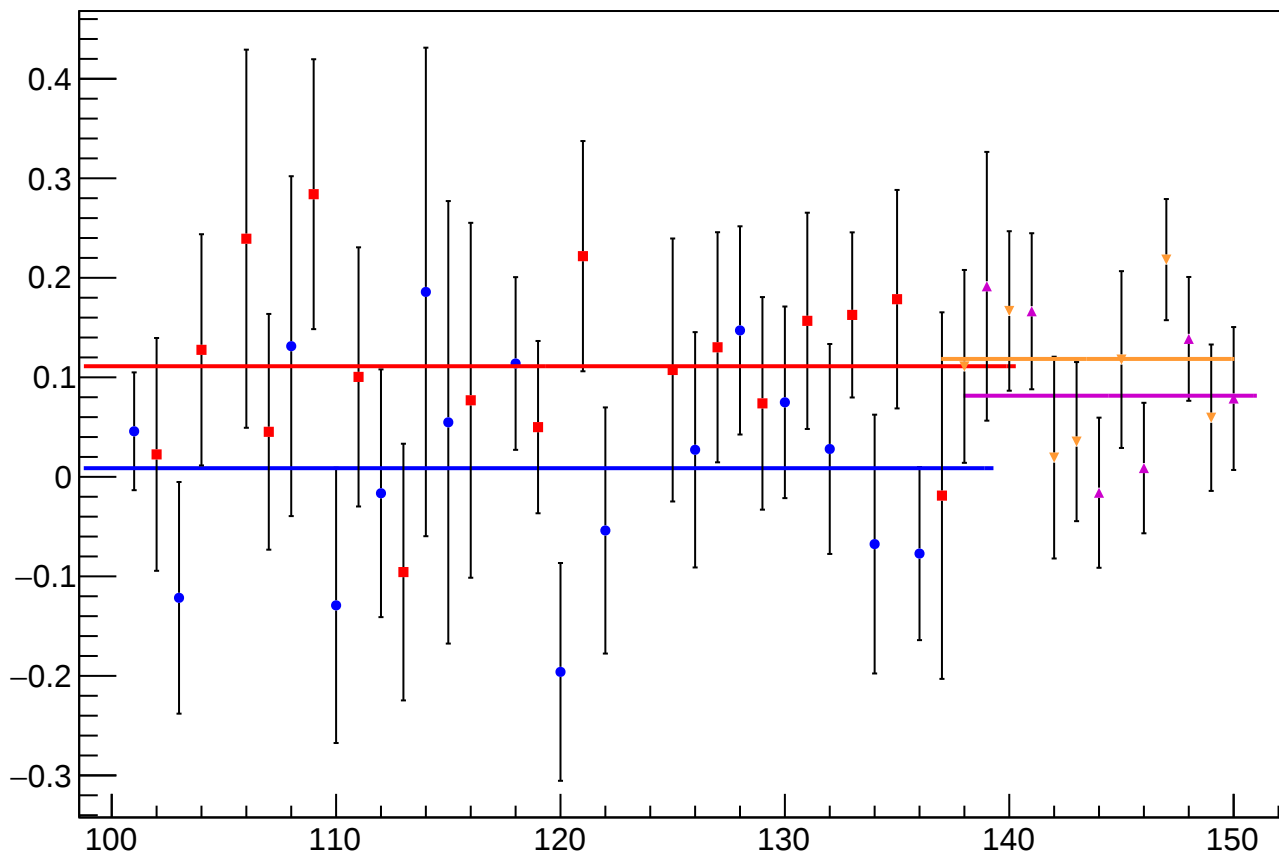
Right: 0.021 $\pm$ 0.031  $\chi^2$ /NDF: 18.6/32

In: 0.037 $\pm$ 0.028  $\chi^2$ /NDF:17.8/21

Out: 0.040 $\pm$ 0.028  $\chi^2$ /NDF:18.7/23

All: 0.038 $\pm$ 0.020  $\chi^2$ /NDF: 36.5/45

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.009 \pm 0.027$   $\chi^2/\text{NDF}: 12.6/15$

Left Out:  $0.118 \pm 0.030$   $\chi^2/\text{NDF}: 5.7/6$

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}: 8.6/16$

Left In:  $0.082 \pm 0.030$   $\chi^2/\text{NDF}: 5.6/5$

Left:  $0.100 \pm 0.021$   $\chi^2/\text{NDF}: 12.1/12$

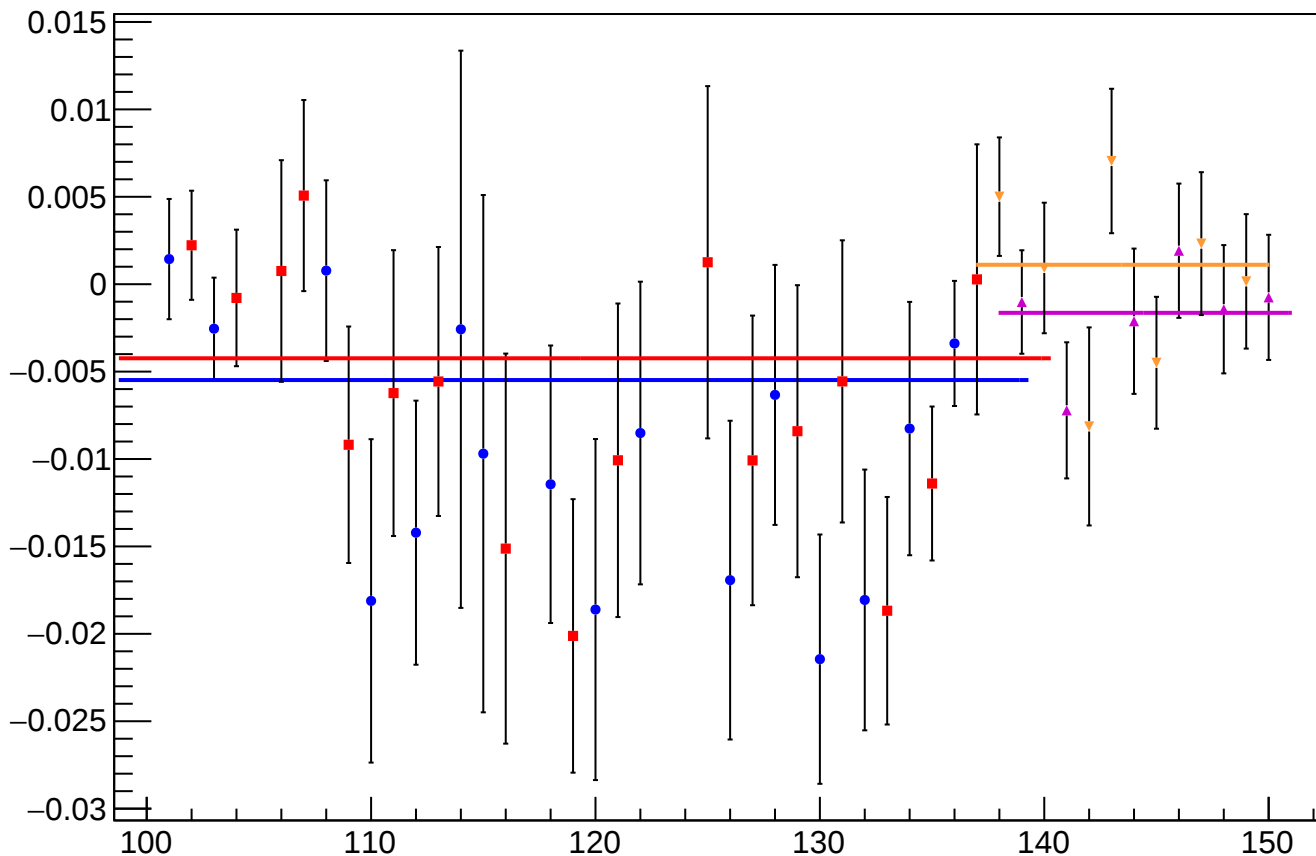
Right:  $0.057 \pm 0.020$   $\chi^2/\text{NDF}: 28.0/32$

In:  $0.041 \pm 0.020$   $\chi^2/\text{NDF}: 21.4/21$

Out:  $0.115 \pm 0.021$   $\chi^2/\text{NDF}: 14.4/23$

All:  $0.077 \pm 0.014$   $\chi^2/\text{NDF}: 42.3/45$

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 22.3/15

Left Out:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 8.4/6

Right Out:  $-0.004 \pm 0.001$   $\chi^2/\text{NDF}$ : 23.7/16

Left In:  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 3.0/5

Left:  $-0.000 \pm 0.001$   $\chi^2/\text{NDF}$ : 13.1/12

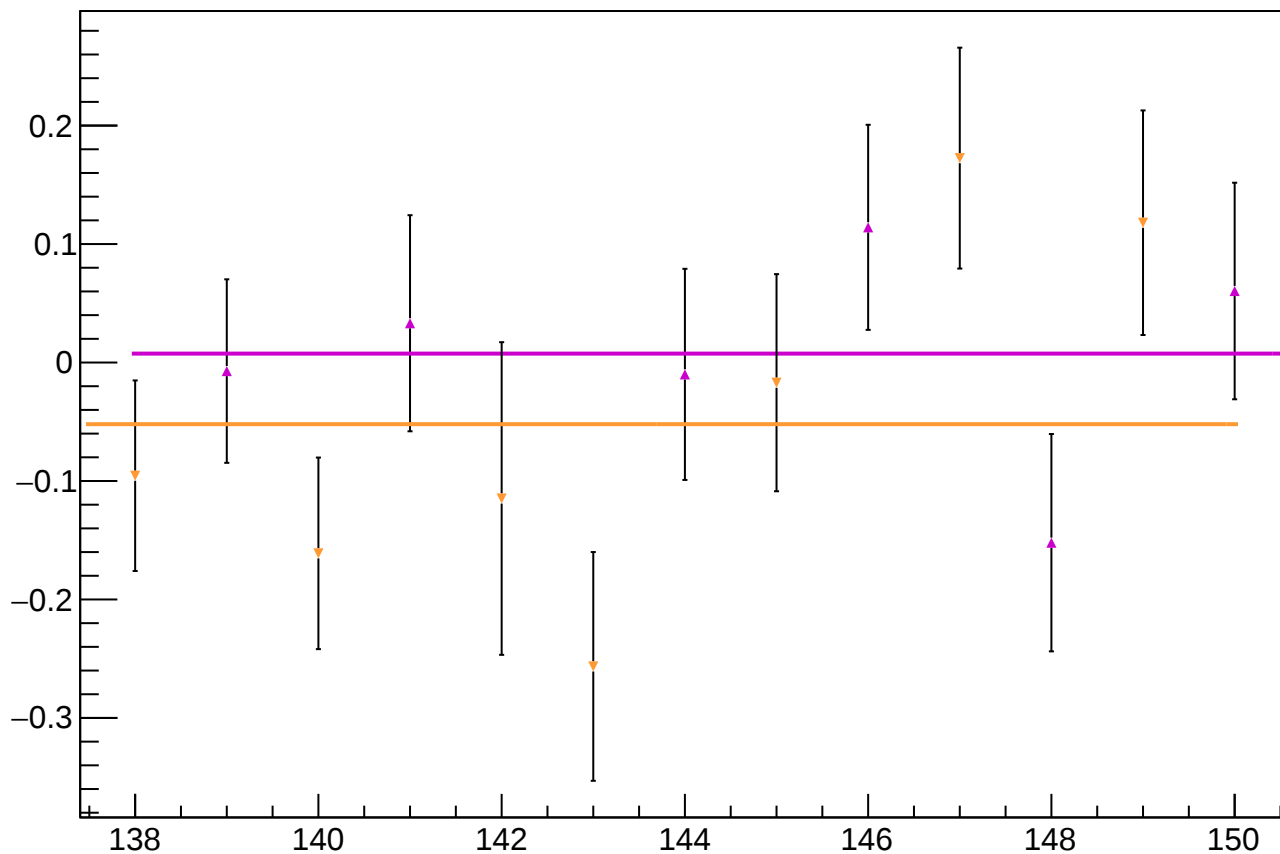
Right:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 46.3/32

In:  $-0.004 \pm 0.001$   $\chi^2/\text{NDF}$ : 28.8/21

Out:  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 38.6/23

All:  $-0.003 \pm 0.001$   $\chi^2/\text{NDF}$ : 69.2/45

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: -0.052 $\pm$ 0.035  $\chi^2$ /NDF:16.0/6

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

Left In: 0.008 $\pm$ 0.036  $\chi^2$ /NDF:5.0/5

Left: -0.023 $\pm$ 0.025  $\chi^2$ /NDF: 22.4/12

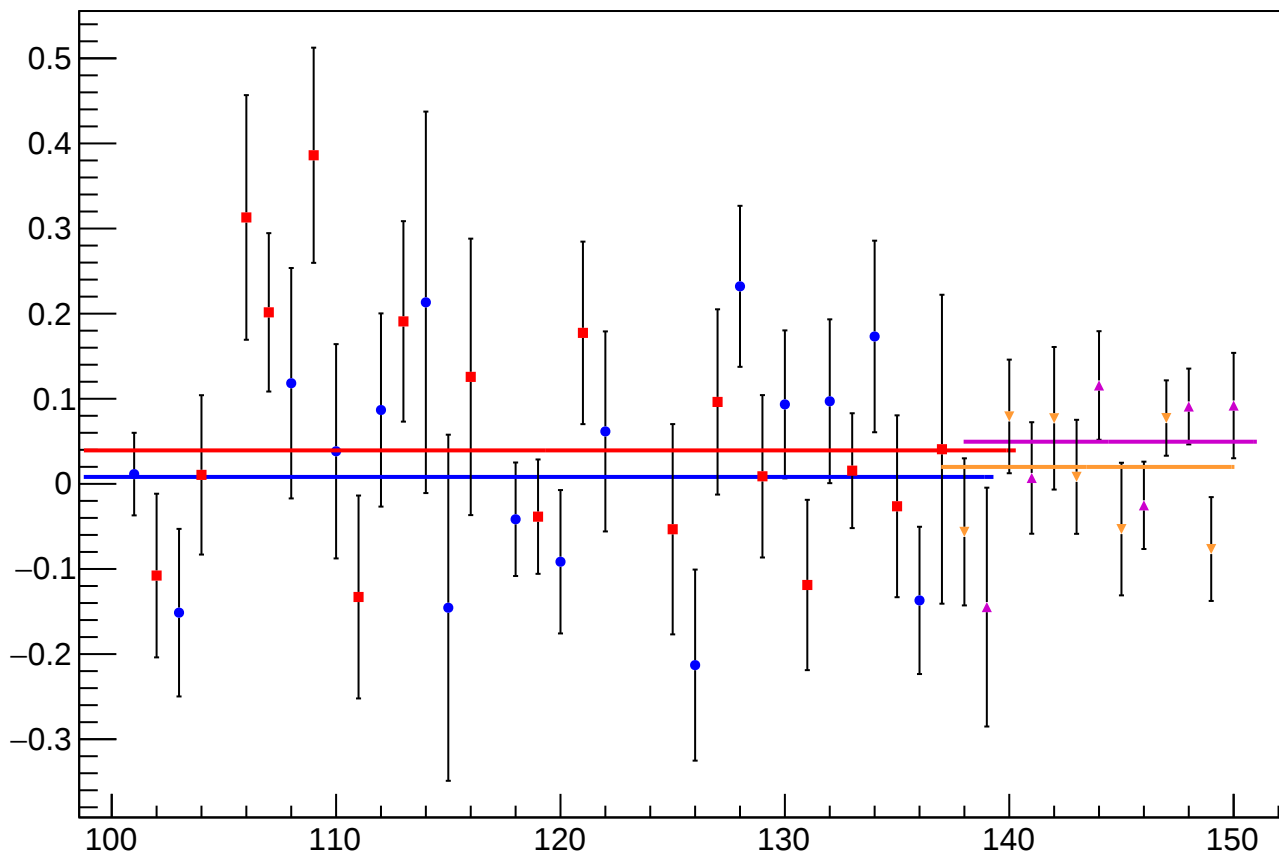
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.008 $\pm$ 0.036  $\chi^2$ /NDF:5.0/5

Out: -0.052 $\pm$ 0.035  $\chi^2$ /NDF:16.0/6

All: -0.023 $\pm$ 0.025  $\chi^2$ /NDF: 22.4/12

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.023  $\chi^2$ /NDF: 23.7/15

Left Out: 0.020 $\pm$ 0.024  $\chi^2$ /NDF: 7.1/6

Right Out: 0.039 $\pm$ 0.025  $\chi^2$ /NDF: 27.6/16

Left In: 0.050 $\pm$ 0.024  $\chi^2$ /NDF: 6.9/5

Left: 0.035 $\pm$ 0.017  $\chi^2$ /NDF: 14.7/12

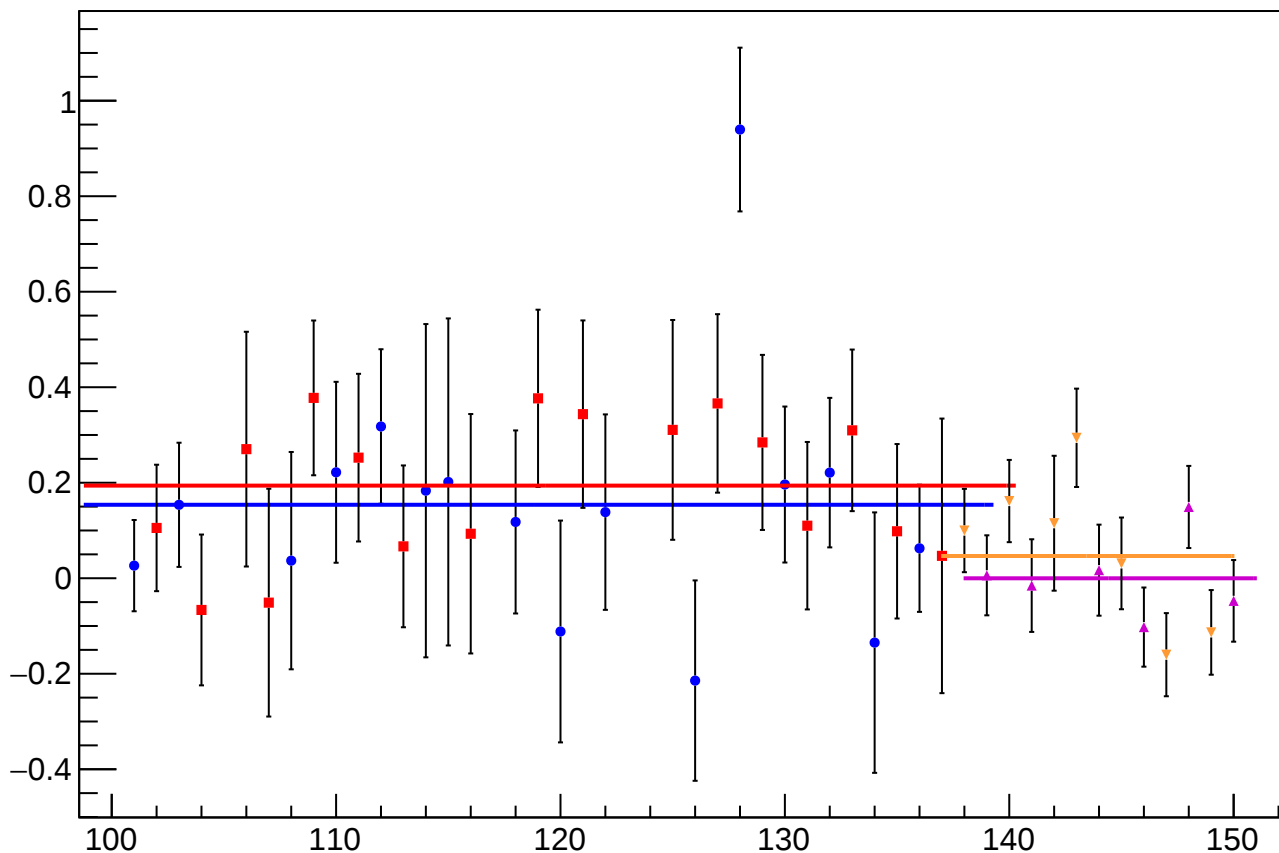
Right: 0.023 $\pm$ 0.017  $\chi^2$ /NDF: 52.1/32

In: 0.028 $\pm$ 0.017  $\chi^2$ /NDF: 32.0/21

Out: 0.030 $\pm$ 0.017  $\chi^2$ /NDF: 35.0/23

All: 0.029 $\pm$ 0.012  $\chi^2$ /NDF: 67.1/45

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:  $0.047 \pm 0.036$   $\chi^2/\text{NDF}$ : 17.1/6

Right Out:  $0.194 \pm 0.045$   $\chi^2/\text{NDF}$ : 10.6/16

Left In:  $-0.000 \pm 0.036$   $\chi^2/\text{NDF}$ : 4.9/5

Left:  $0.023 \pm 0.025$   $\chi^2/\text{NDF}$ : 22.8/12

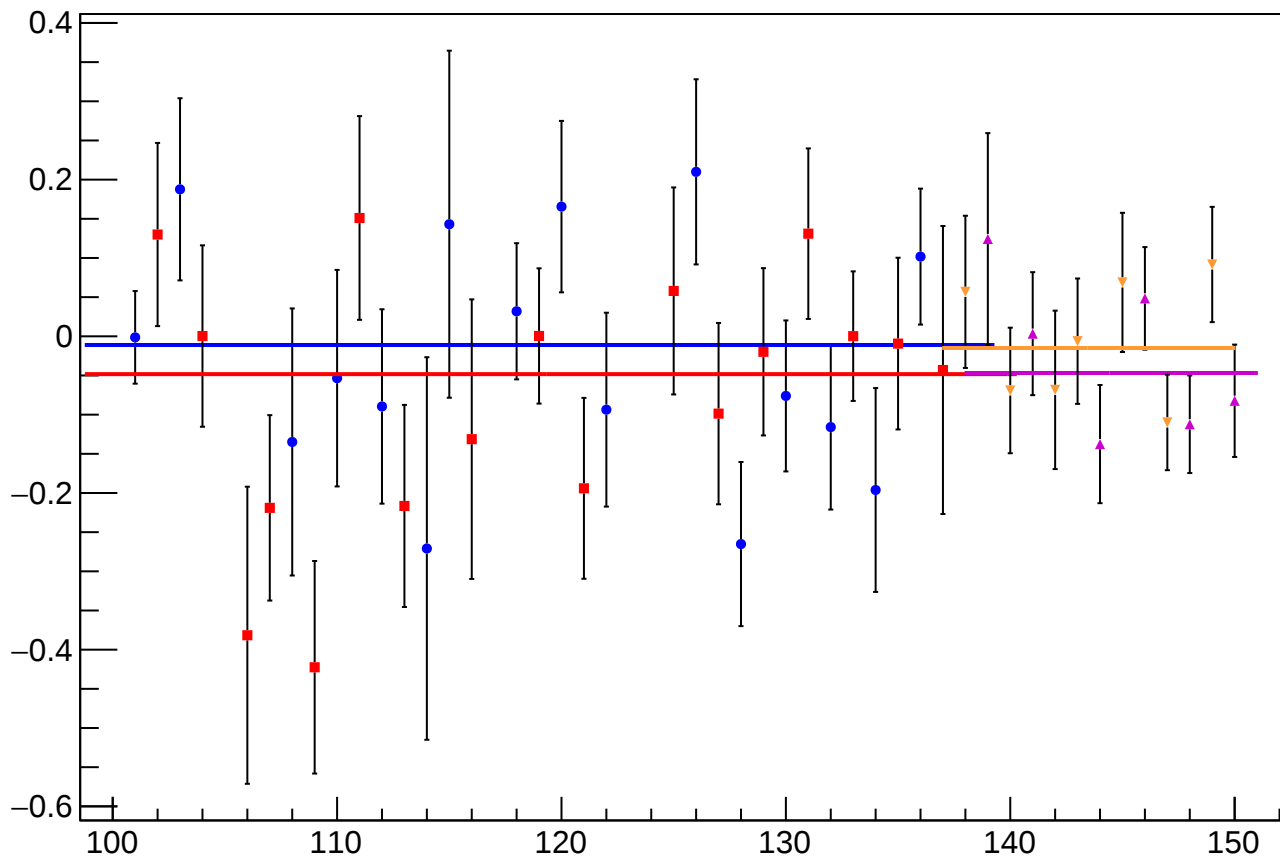
Right:  $0.173 \pm 0.031$   $\chi^2/\text{NDF}$ : 41.5/32

In:  $0.063 \pm 0.028$   $\chi^2/\text{NDF}$ : 43.0/21

Out:  $0.104 \pm 0.028$   $\chi^2/\text{NDF}$ : 34.2/23

All:  $0.083 \pm 0.020$   $\chi^2/\text{NDF}$ : 78.3/45

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:  $-0.015 \pm 0.030$   $\chi^2/\text{NDF}$ : 6.7/6

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.6/16

Left In:  $-0.047 \pm 0.030$   $\chi^2/\text{NDF}$ : 6.9/5

Left:  $-0.031 \pm 0.021$   $\chi^2/\text{NDF}$ : 14.2/12

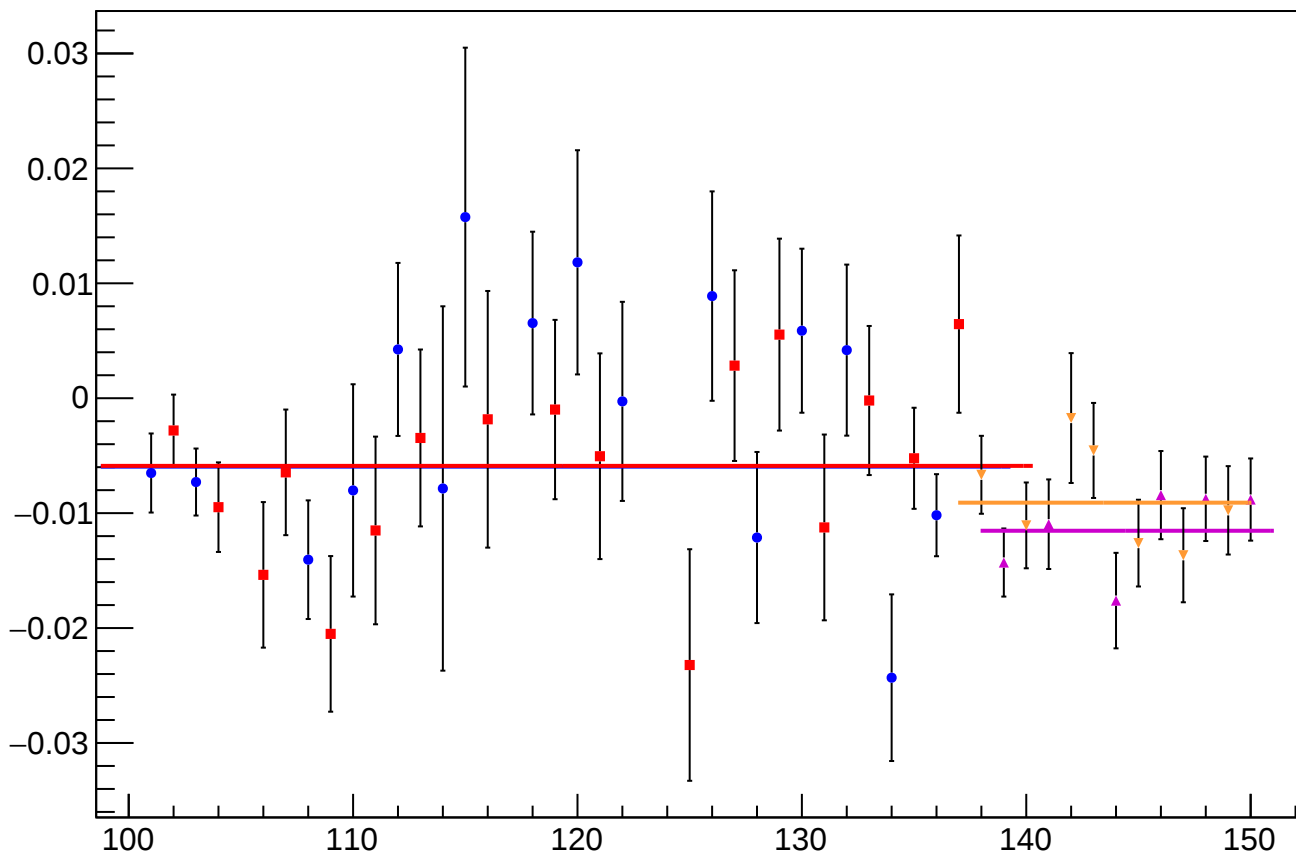
Right:  $-0.029 \pm 0.020$   $\chi^2/\text{NDF}$ : 49.9/32

In:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}$ : 31.1/21

Out:  $-0.033 \pm 0.021$   $\chi^2/\text{NDF}$ : 32.9/23

All:  $-0.030 \pm 0.014$   $\chi^2/\text{NDF}$ : 64.1/45

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 28.7/15

Left Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 5.8/6

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 19.6/16

Left In:  $-0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 4.8/5

Left:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 12.0/12

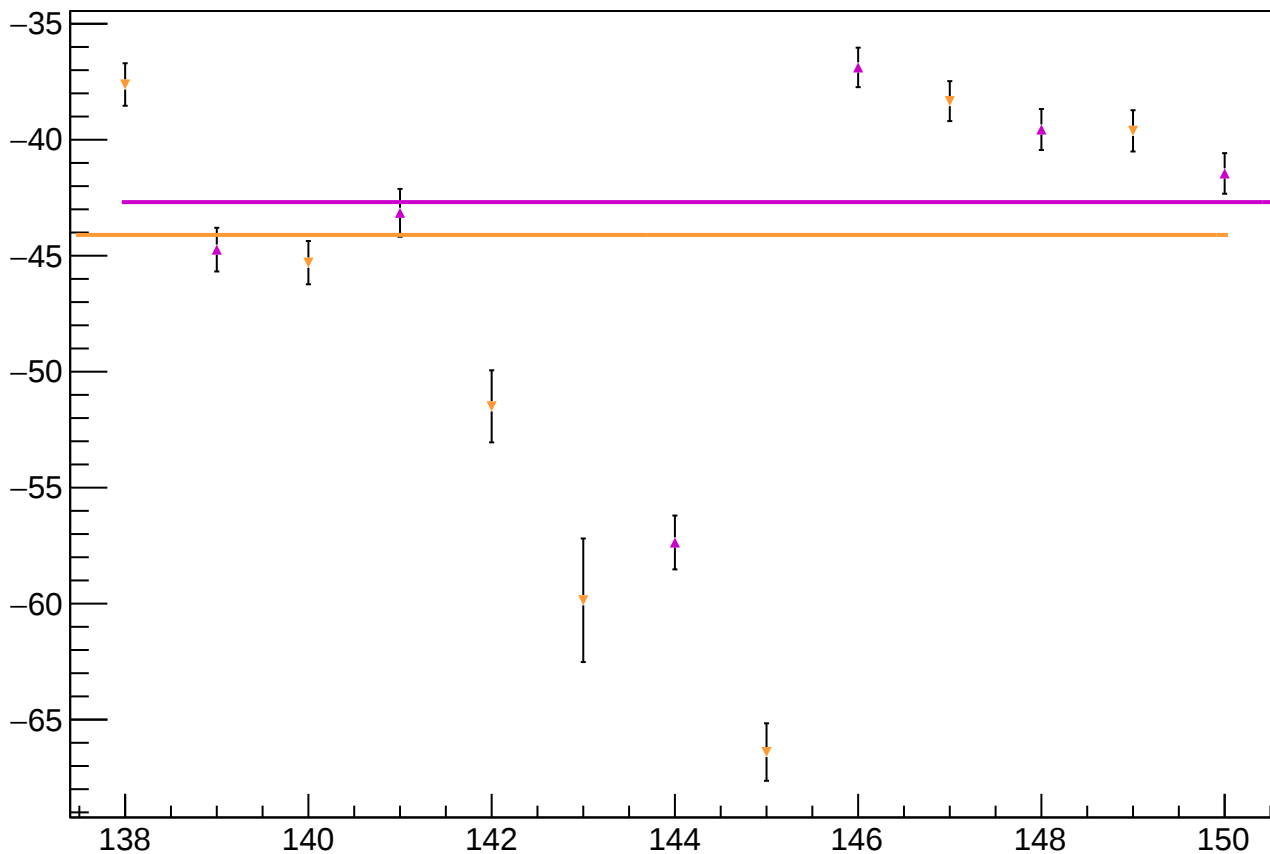
Right:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 48.3/32

In:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 40.9/21

Out:  $-0.007 \pm 0.001$   $\chi^2/\text{NDF}$ : 27.7/23

All:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 69.3/45

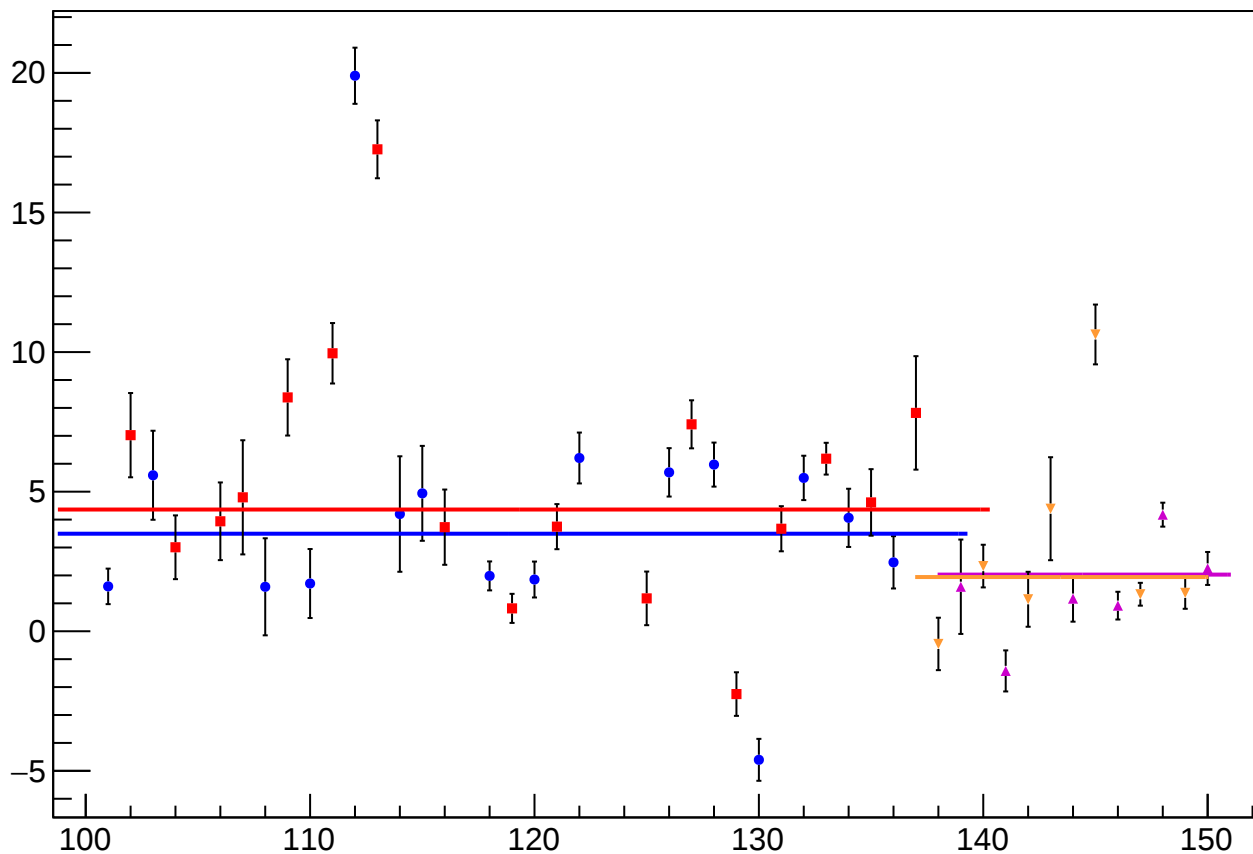
reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -44.104 $\pm$ 0.403  $\chi^2$ /NDF:503.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -42.689 $\pm$ 0.384  $\chi^2$ /NDF:225.9/5

Left: -43.362 $\pm$ 0.278  $\chi^2$ /NDF: 735.5/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -42.689 $\pm$ 0.384  $\chi^2$ /NDF:225.9/5  
 Out: -44.104 $\pm$ 0.403  $\chi^2$ /NDF:503.1/6  
 All: -43.362 $\pm$ 0.278  $\chi^2$ /NDF: 735.5/12

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.494 $\pm$ 0.218  $\chi^2$ /NDF: 444.9/15

Left Out: 1.942 $\pm$ 0.266  $\chi^2$ /NDF:78.2/6

Right Out: 4.360 $\pm$ 0.225  $\chi^2$ /NDF: 351.0/16

Left In: 2.029 $\pm$ 0.250  $\chi^2$ /NDF:53.4/5

Left: 1.988 $\pm$ 0.182  $\chi^2$ /NDF: 131.6/12

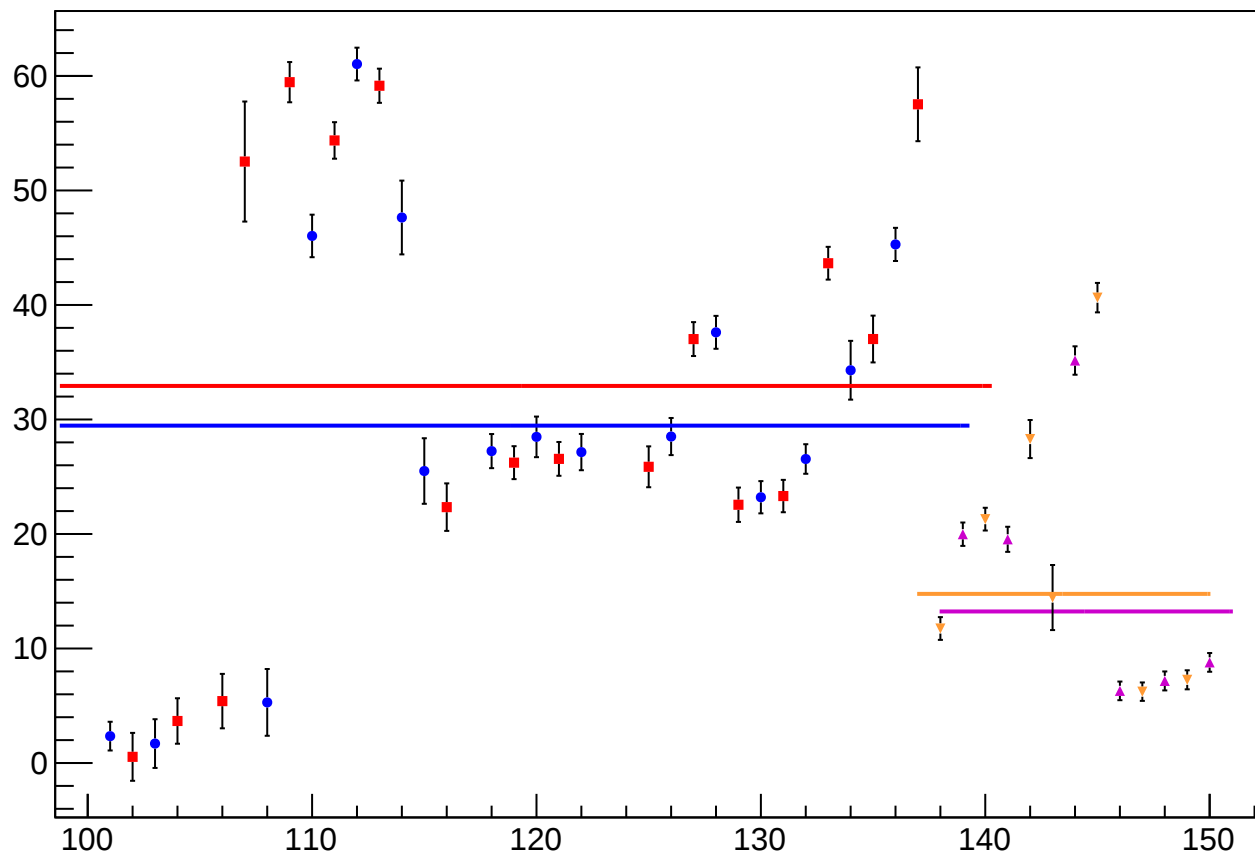
Right: 3.912 $\pm$ 0.157  $\chi^2$ /NDF: 803.5/32

In: 2.862 $\pm$ 0.164  $\chi^2$ /NDF:517.8/21

Out: 3.351 $\pm$ 0.172  $\chi^2$ /NDF:477.2/23

All: 3.095 $\pm$ 0.119  $\chi^2$ /NDF: 999.3/45

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: 14.770 $\pm$ 0.405  $\chi^2$ /NDF: 717.1/6

Right Out: 32.930 $\pm$ 0.423  $\chi^2$ /NDF: 1624.4/16

Left In: 13.234 $\pm$ 0.381  $\chi^2$ /NDF: 544.5/5

Left: 13.955 $\pm$ 0.277  $\chi^2$ /NDF: 1269.2/12

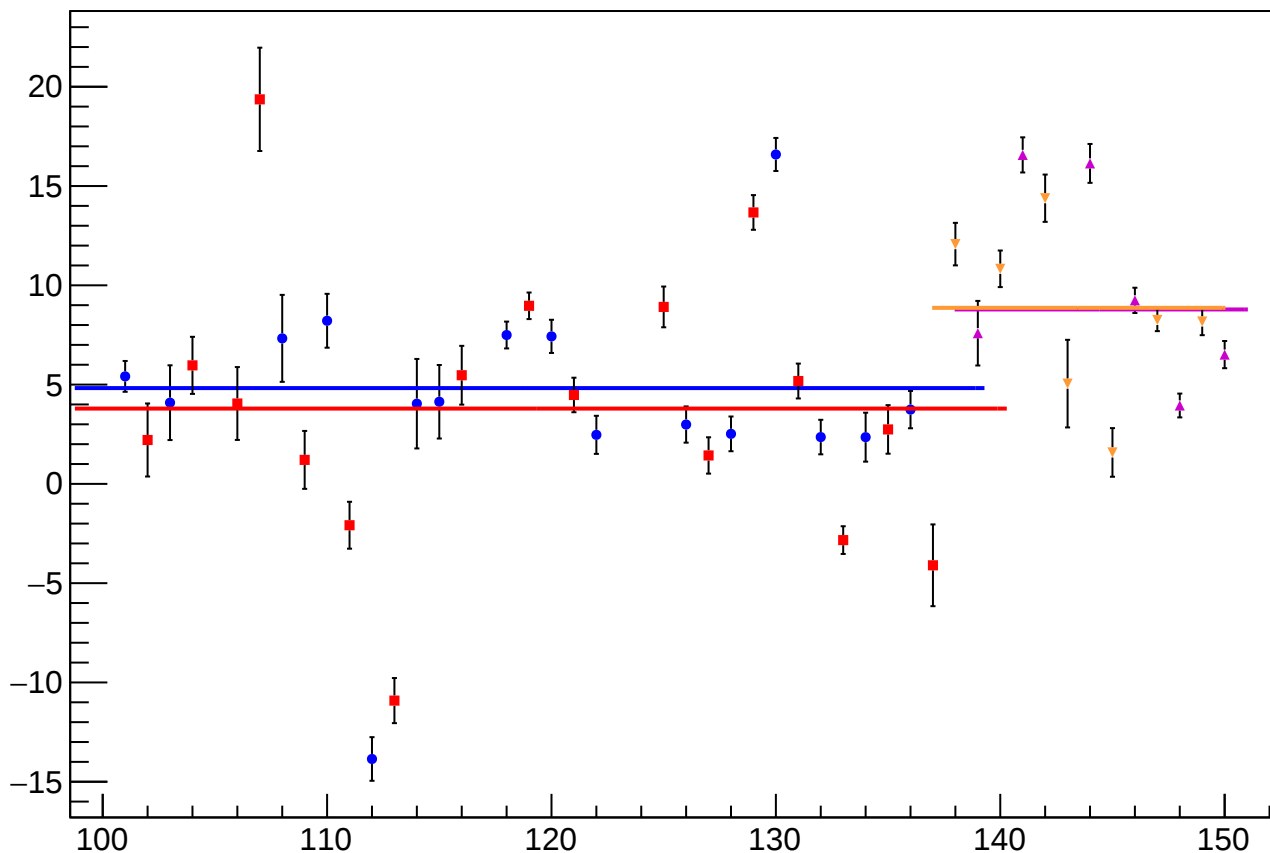
Right: 31.172 $\pm$ 0.297  $\chi^2$ /NDF: 3150.0/32

In: 20.599 $\pm$ 0.281  $\chi^2$ /NDF: 2861.2/21

Out: 23.437 $\pm$ 0.293  $\chi^2$ /NDF: 3302.7/23

All: 21.962 $\pm$ 0.203  $\chi^2$ /NDF: 6212.8/45

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: 8.866 $\pm$ 0.335  $\chi^2$ /NDF: 75.6/6

Right Out: 3.792 $\pm$ 0.259  $\chi^2$ /NDF: 563.6/16

Left In: 8.784 $\pm$ 0.315  $\chi^2$ /NDF: 211.0/5

Left: 8.822 $\pm$ 0.230  $\chi^2$ /NDF: 286.6/12

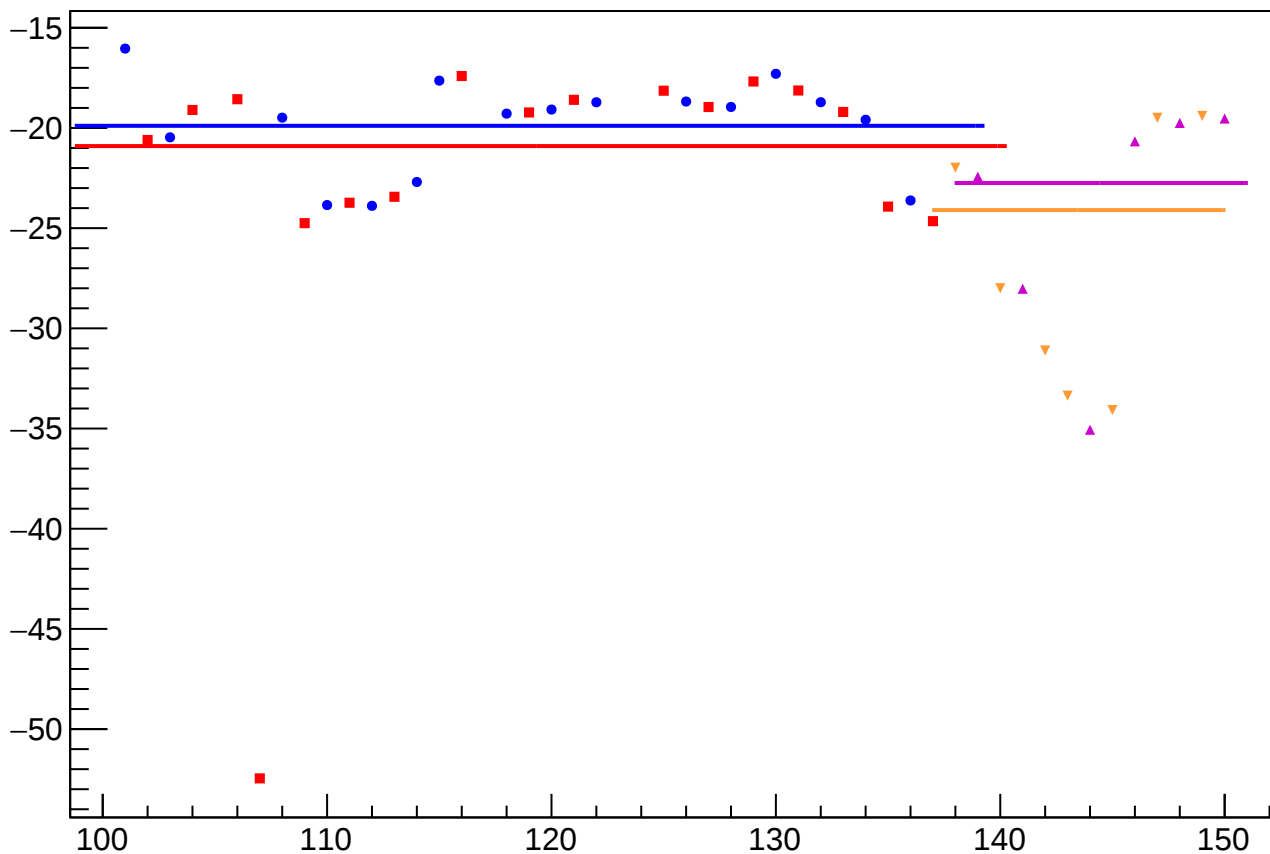
Right: 4.323 $\pm$ 0.180  $\chi^2$ /NDF: 1124.7/32

In: 6.367 $\pm$ 0.197  $\chi^2$ /NDF: 860.4/21

Out: 5.687 $\pm$ 0.205  $\chi^2$ /NDF: 782.5/23

All: 6.041 $\pm$ 0.142  $\chi^2$ /NDF: 1648.6/45

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -19.892 $\pm$ 0.016  $\chi^2$ /NDF: 26092.3/15

Left Out: -24.097 $\pm$ 0.017  $\chi^2$ /NDF: 98746.7/6

Right Out: -20.904 $\pm$ 0.016  $\chi^2$ /NDF: 92802.8/16

Left In: -22.746 $\pm$ 0.016  $\chi^2$ /NDF: 84450.5/5

Left: -23.362 $\pm$ 0.012  $\chi^2$ /NDF: 186511.2/12

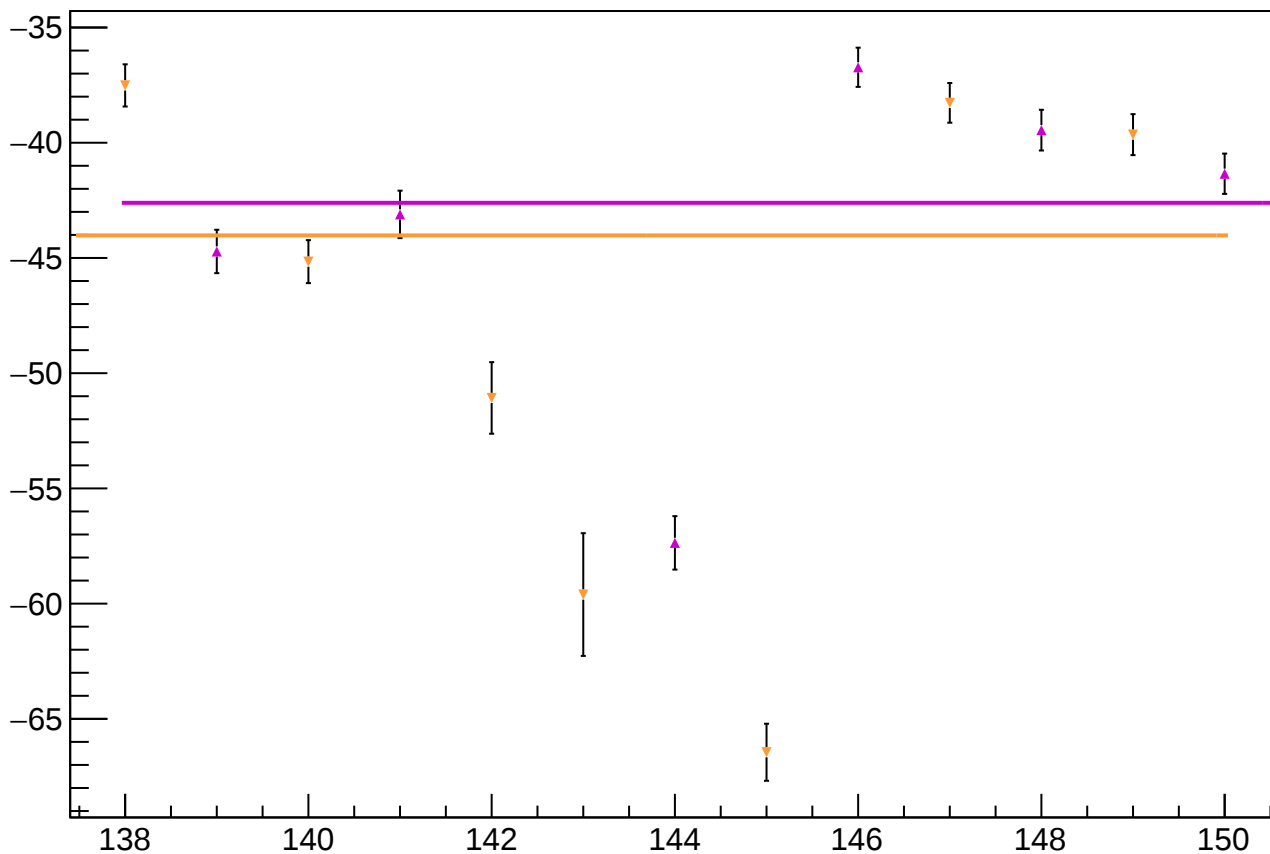
Right: -20.393 $\pm$ 0.011  $\chi^2$ /NDF: 120979.2/32

In: -21.296 $\pm$ 0.011  $\chi^2$ /NDF: 127030.4/21

Out: -22.349 $\pm$ 0.012  $\chi^2$ /NDF: 210184.8/23

All: -21.798 $\pm$ 0.008  $\chi^2$ /NDF: 341494.6/45

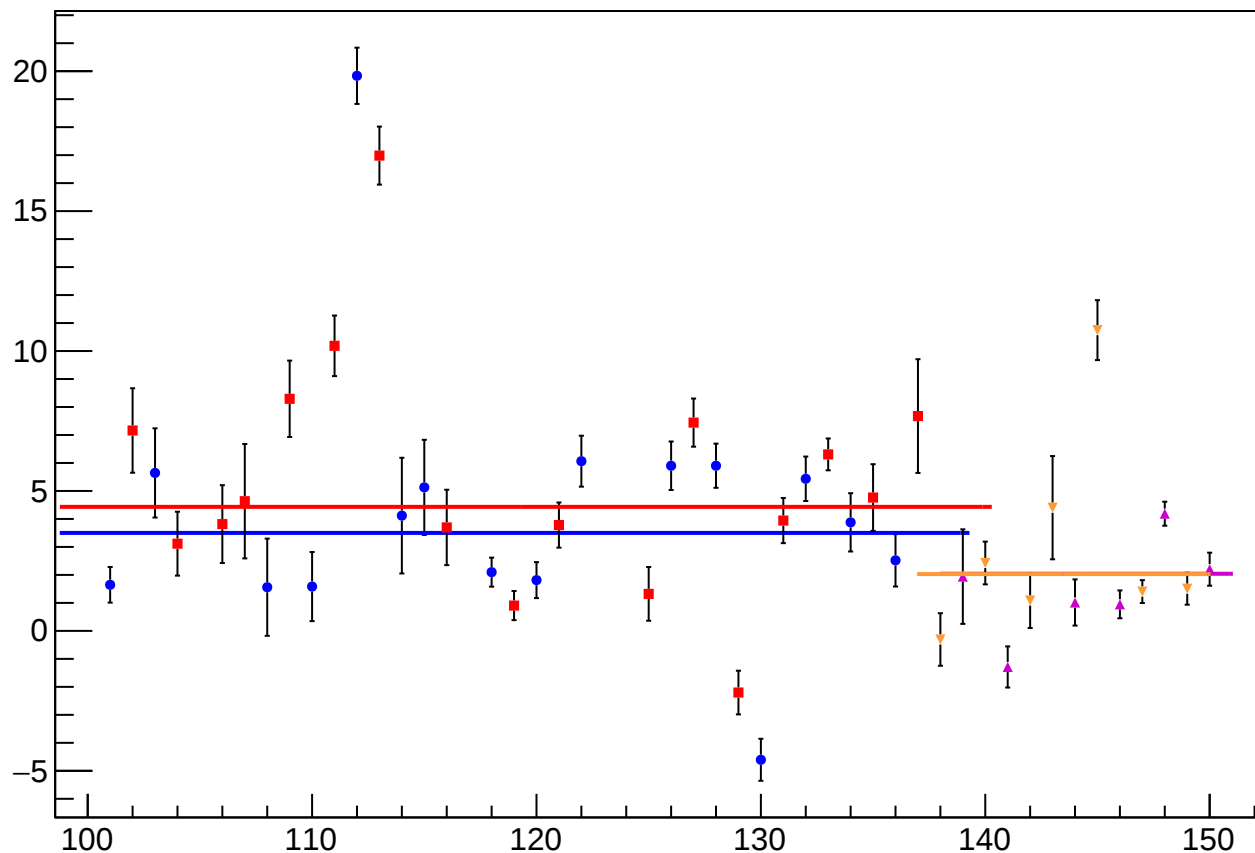
reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -44.021+/-0.403  $\chi^2/\text{NDF}$ :503.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -42.607+/-0.384  $\chi^2/\text{NDF}$ :229.8/5

Left: -43.280+/-0.278  $\chi^2/\text{NDF}$ : 739.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -42.607+/-0.384  $\chi^2/\text{NDF}$ :229.8/5  
 Out: -44.021+/-0.403  $\chi^2/\text{NDF}$ :503.5/6  
 All: -43.280+/-0.278  $\chi^2/\text{NDF}$ : 739.7/12

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: 2.030 $\pm$ 0.266  $\chi^2$ /NDF:78.5/6

Right Out: 4.432 $\pm$ 0.225  $\chi^2$ /NDF: 343.6/16

Left In: 2.041 $\pm$ 0.250  $\chi^2$ /NDF:52.1/5

Left: 2.036 $\pm$ 0.182  $\chi^2$ /NDF: 130.6/12

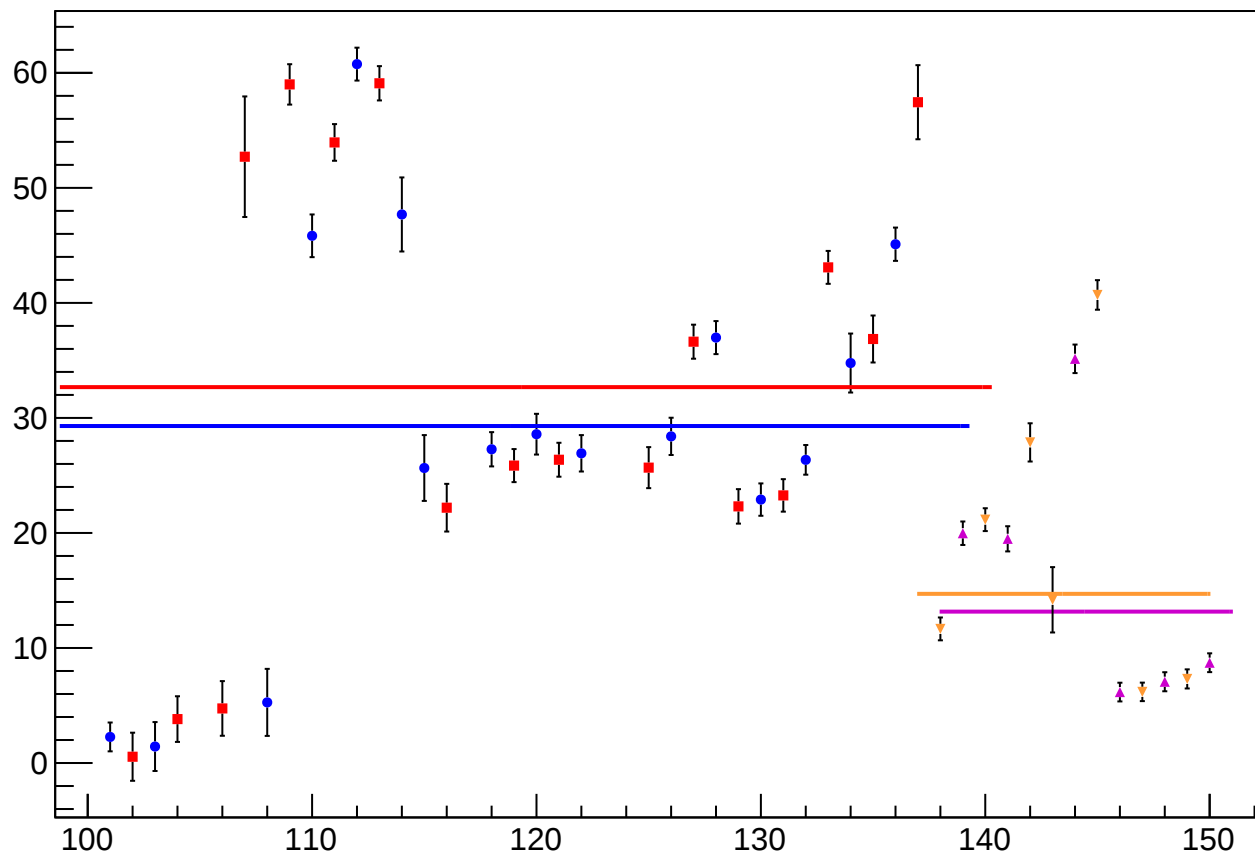
Right: 3.951 $\pm$ 0.156  $\chi^2$ /NDF: 794.3/32

In: 2.871 $\pm$ 0.164  $\chi^2$ /NDF:513.4/21

Out: 3.430 $\pm$ 0.172  $\chi^2$ /NDF:469.6/23

All: 3.138 $\pm$ 0.119  $\chi^2$ /NDF: 988.5/45

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.297 $\pm$ 0.417  $\chi^2$ /NDF: 1485.2/15

Left Out: 14.706 $\pm$ 0.404  $\chi^2$ /NDF: 714.6/6

Right Out: 32.679 $\pm$ 0.423  $\chi^2$ /NDF: 1614.8/16

Left In: 13.161 $\pm$ 0.380  $\chi^2$ /NDF: 549.8/5

Left: 13.886 $\pm$ 0.277  $\chi^2$ /NDF: 1272.1/12

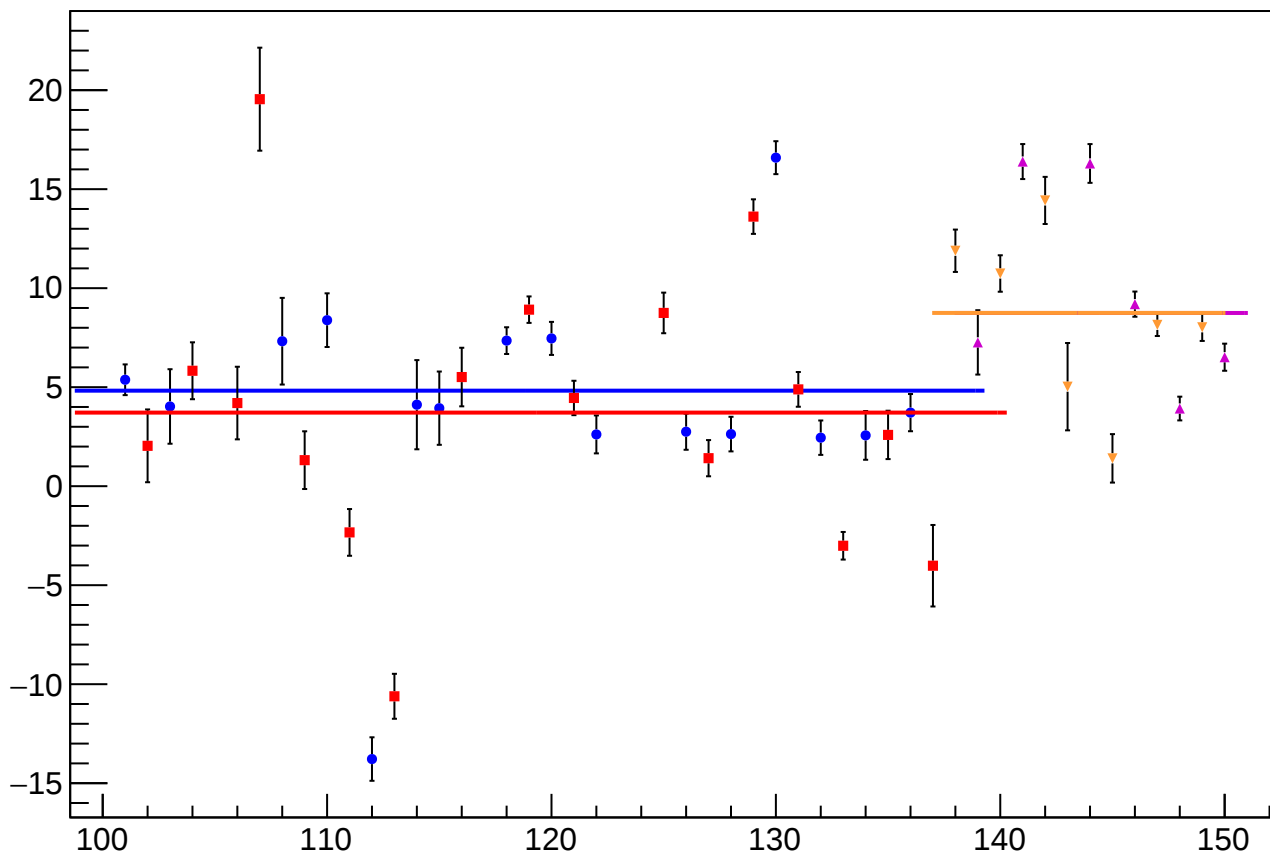
Right: 30.964 $\pm$ 0.297  $\chi^2$ /NDF: 3132.4/32

In: 20.484 $\pm$ 0.281  $\chi^2$ /NDF: 2851.8/21

Out: 23.286 $\pm$ 0.292  $\chi^2$ /NDF: 3271.9/23

All: 21.830 $\pm$ 0.203  $\chi^2$ /NDF: 6171.5/45

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:  $8.750 \pm 0.335$   $\chi^2/\text{NDF}: 77.2/6$

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}: 559.9/16$

Left In:  $8.748 \pm 0.315$   $\chi^2/\text{NDF}: 211.2/5$

Left:  $8.749 \pm 0.229$   $\chi^2/\text{NDF}: 288.4/12$

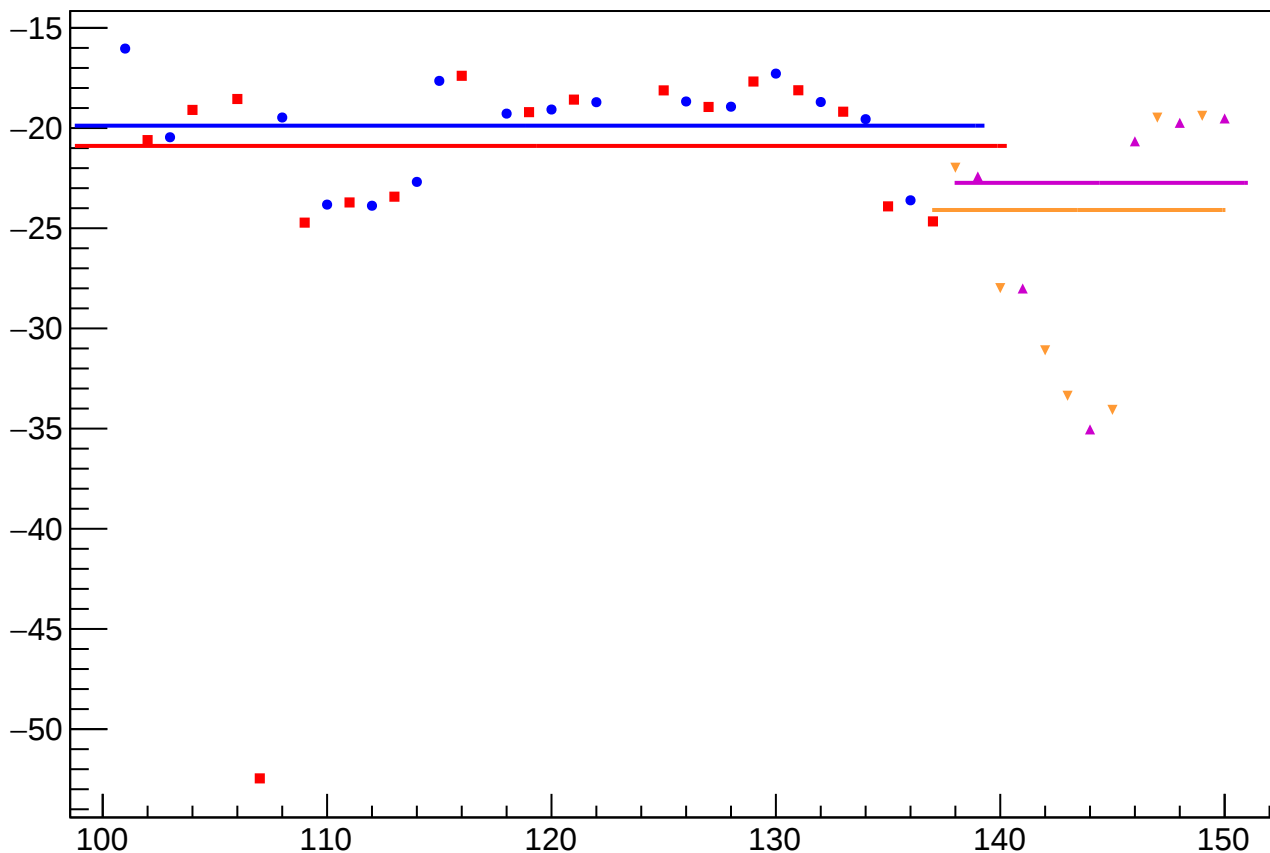
Right:  $4.286 \pm 0.180$   $\chi^2/\text{NDF}: 1118.6/32$

In:  $6.353 \pm 0.196$   $\chi^2/\text{NDF}: 855.3/21$

Out:  $5.595 \pm 0.205$   $\chi^2/\text{NDF}: 778.4/23$

All:  $5.990 \pm 0.142$   $\chi^2/\text{NDF}: 1640.8/45$

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:  $-24.089 \pm 0.017$   $\chi^2/\text{NDF}: 98821.8/6$

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}: 92913.6/16$

Left In:  $-22.734 \pm 0.016$   $\chi^2/\text{NDF}: 84407.2/5$

Left:  $-23.352 \pm 0.012$   $\chi^2/\text{NDF}: 186564.2/12$

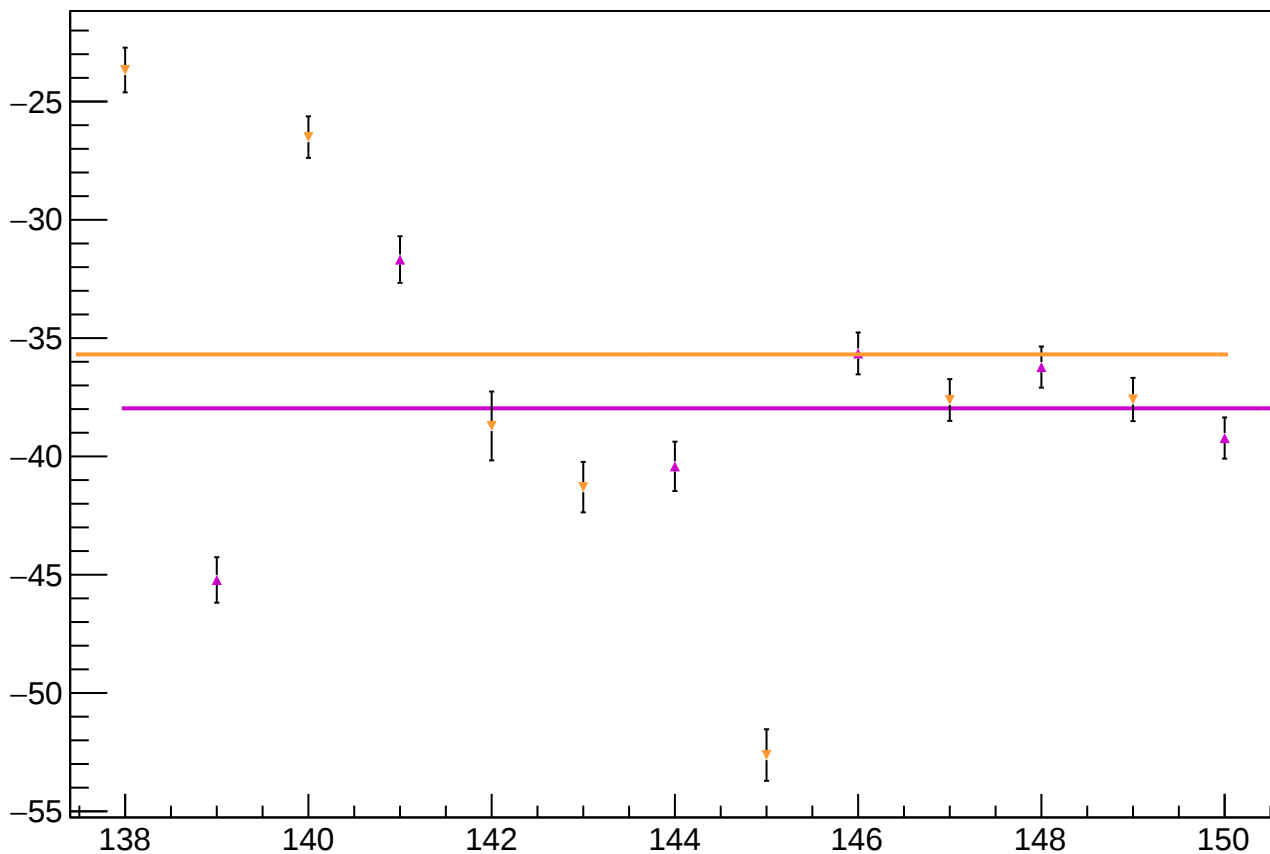
Right:  $-20.381 \pm 0.011$   $\chi^2/\text{NDF}: 121077.9/32$

In:  $-21.284 \pm 0.011$   $\chi^2/\text{NDF}: 126996.4/21$

Out:  $-22.338 \pm 0.012$   $\chi^2/\text{NDF}: 210444.6/23$

All:  $-21.786 \pm 0.008$   $\chi^2/\text{NDF}: 341732.6/45$

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: -35.689+/-0.376  $\chi^2/\text{NDF}$ :554.1/6

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

Left In: -37.968+/-0.379  $\chi^2/\text{NDF}$ :116.1/5

Left: -36.817+/-0.267  $\chi^2/\text{NDF}$ : 688.5/12

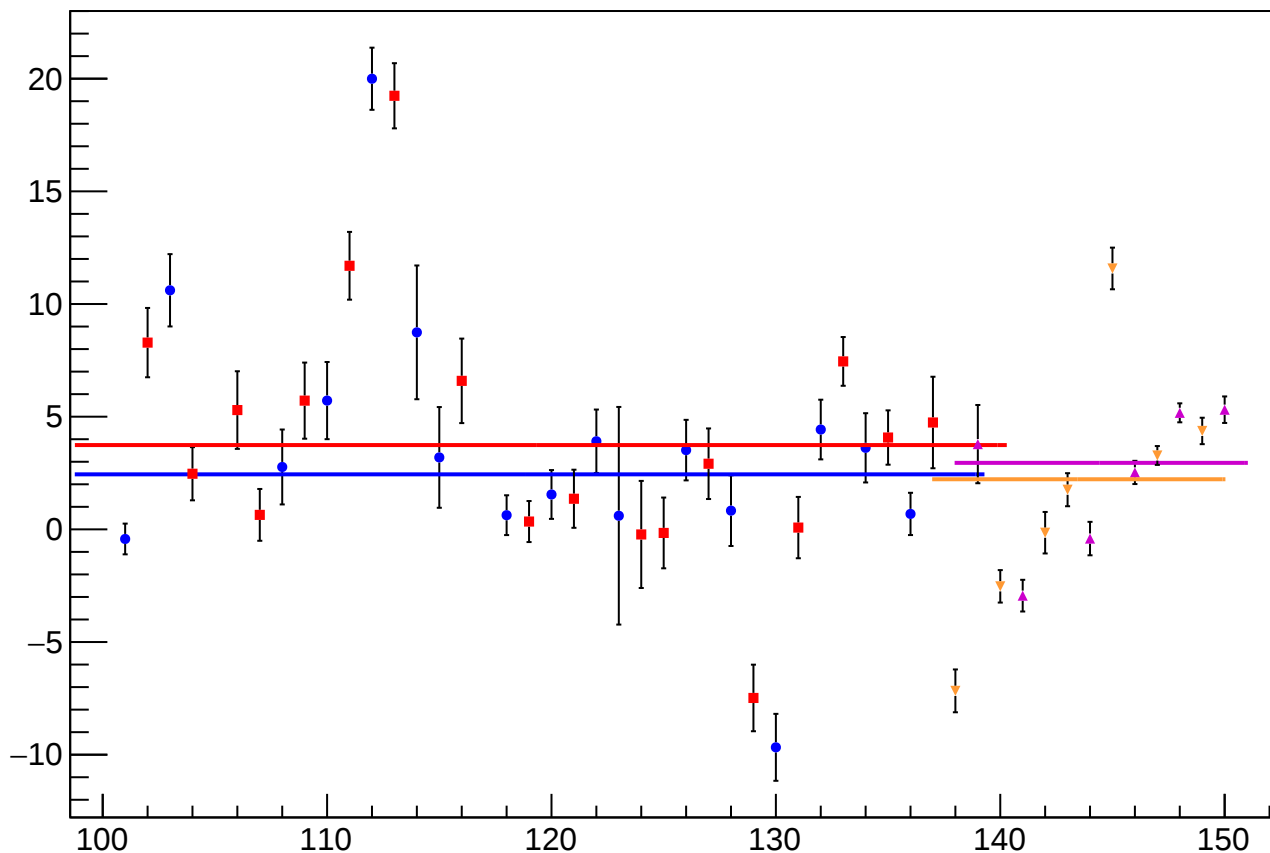
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.968+/-0.379  $\chi^2/\text{NDF}$ :116.1/5

Out: -35.689+/-0.376  $\chi^2/\text{NDF}$ :554.1/6

All: -36.817+/-0.267  $\chi^2/\text{NDF}$ : 688.5/12

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:  $2.223 \pm 0.251$   $\chi^2/\text{NDF}$ : 270.3/6

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.1/17

Left In:  $2.951 \pm 0.246$   $\chi^2/\text{NDF}$ : 135.5/5

Left:  $2.594 \pm 0.176$   $\chi^2/\text{NDF}$ : 410.1/12

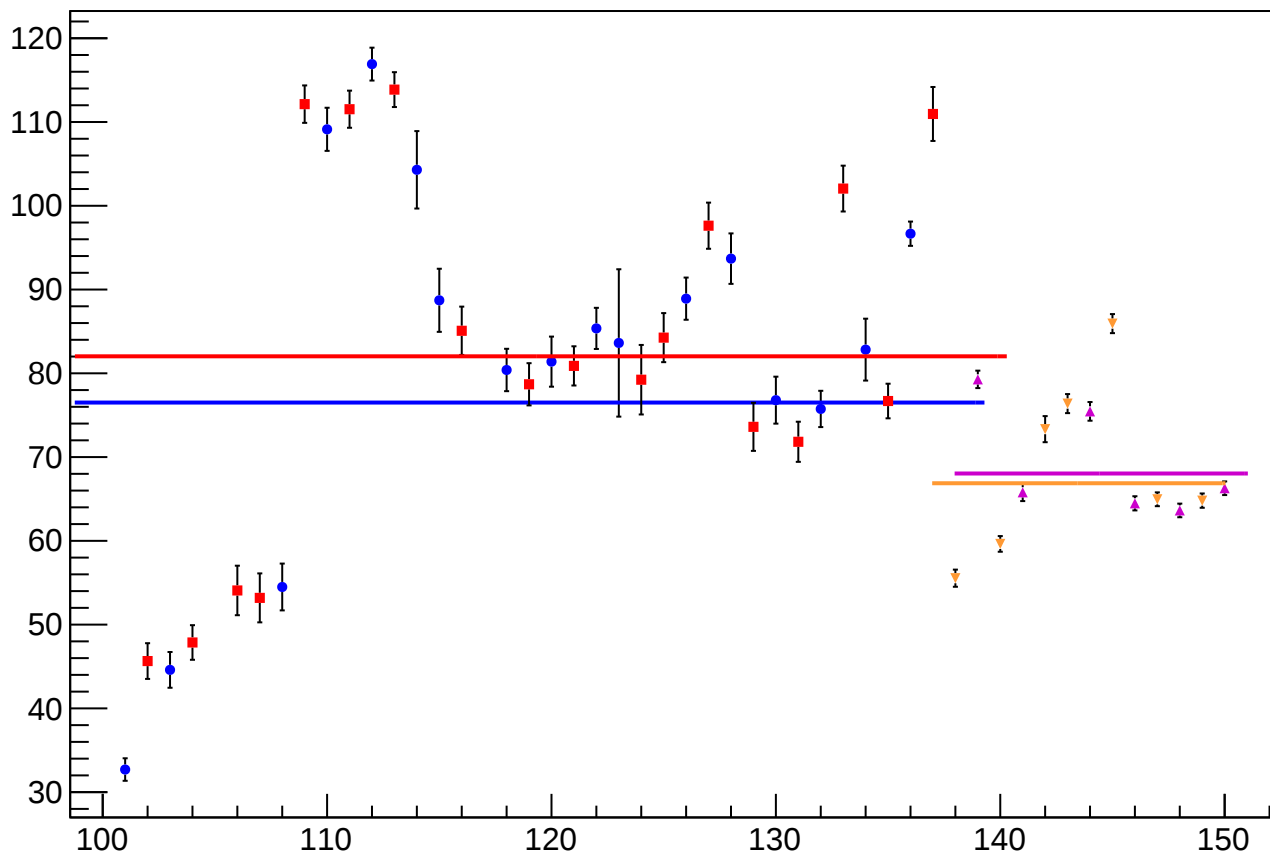
Right:  $3.060 \pm 0.225$   $\chi^2/\text{NDF}$ : 571.1/34

In:  $2.755 \pm 0.193$   $\chi^2/\text{NDF}$ : 431.8/22

Out:  $2.787 \pm 0.199$   $\chi^2/\text{NDF}$ : 552.0/24

All:  $2.770 \pm 0.139$   $\chi^2/\text{NDF}$ : 983.8/47

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: 66.876 $\pm$ 0.381  $\chi^2$ /NDF: 561.6/6

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

Left In: 68.040 $\pm$ 0.377  $\chi^2$ /NDF: 217.1/5

Left: 67.464 $\pm$ 0.268  $\chi^2$ /NDF: 783.4/12

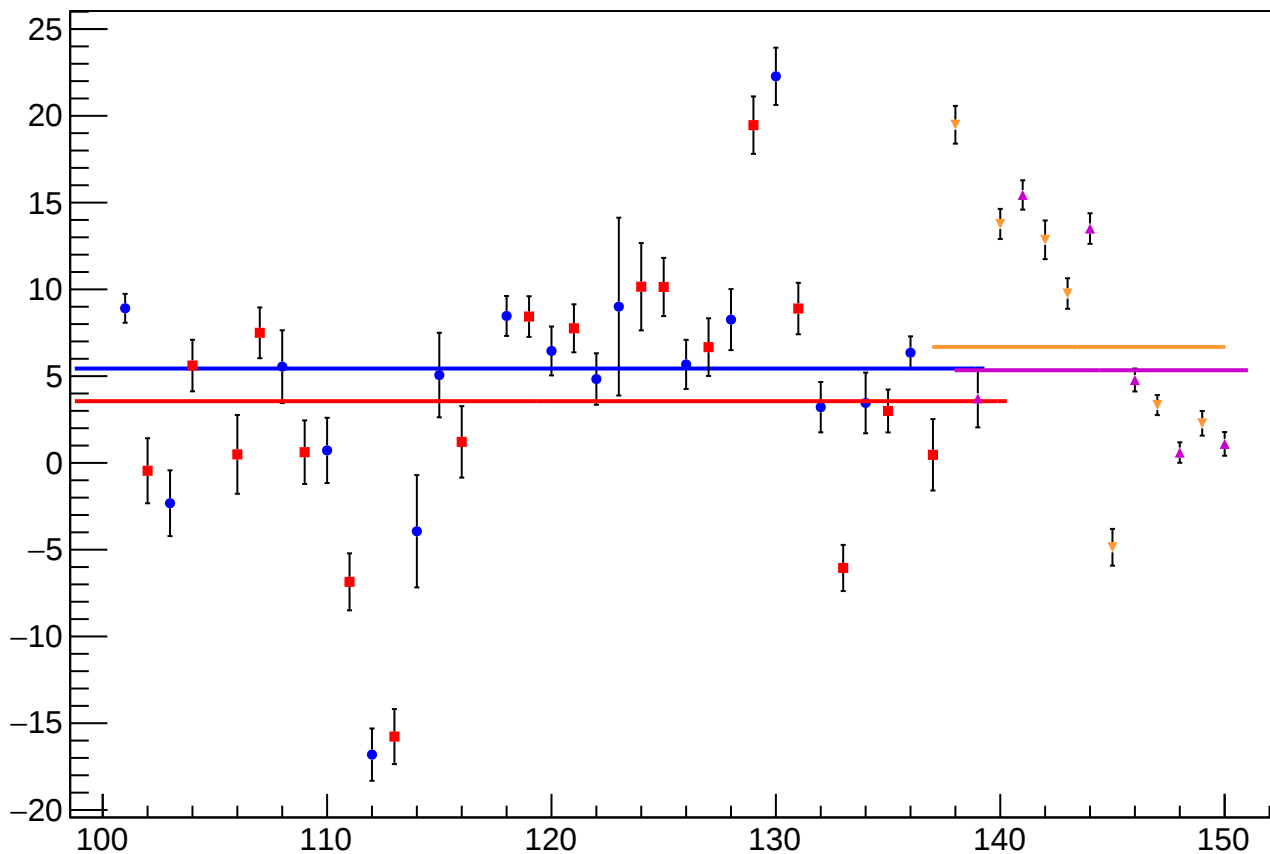
Right: 79.182 $\pm$ 0.412  $\chi^2$ /NDF: 3843.6/34

In: 70.587 $\pm$ 0.315  $\chi^2$ /NDF: 2620.1/22

Out: 71.305 $\pm$ 0.320  $\chi^2$ /NDF: 2572.3/24

All: 70.940 $\pm$ 0.225  $\chi^2$ /NDF: 5195.0/47

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.439 $\pm$ 0.358  $\chi^2$ /NDF: 386.2/16

Left Out: 6.683 $\pm$ 0.314  $\chi^2$ /NDF:439.2/6

Right Out: 3.557 $\pm$ 0.375  $\chi^2$ /NDF: 420.6/17

Left In: 5.340 $\pm$ 0.310  $\chi^2$ /NDF:333.8/5

Left: 6.005 $\pm$ 0.221  $\chi^2$ /NDF: 782.2/12

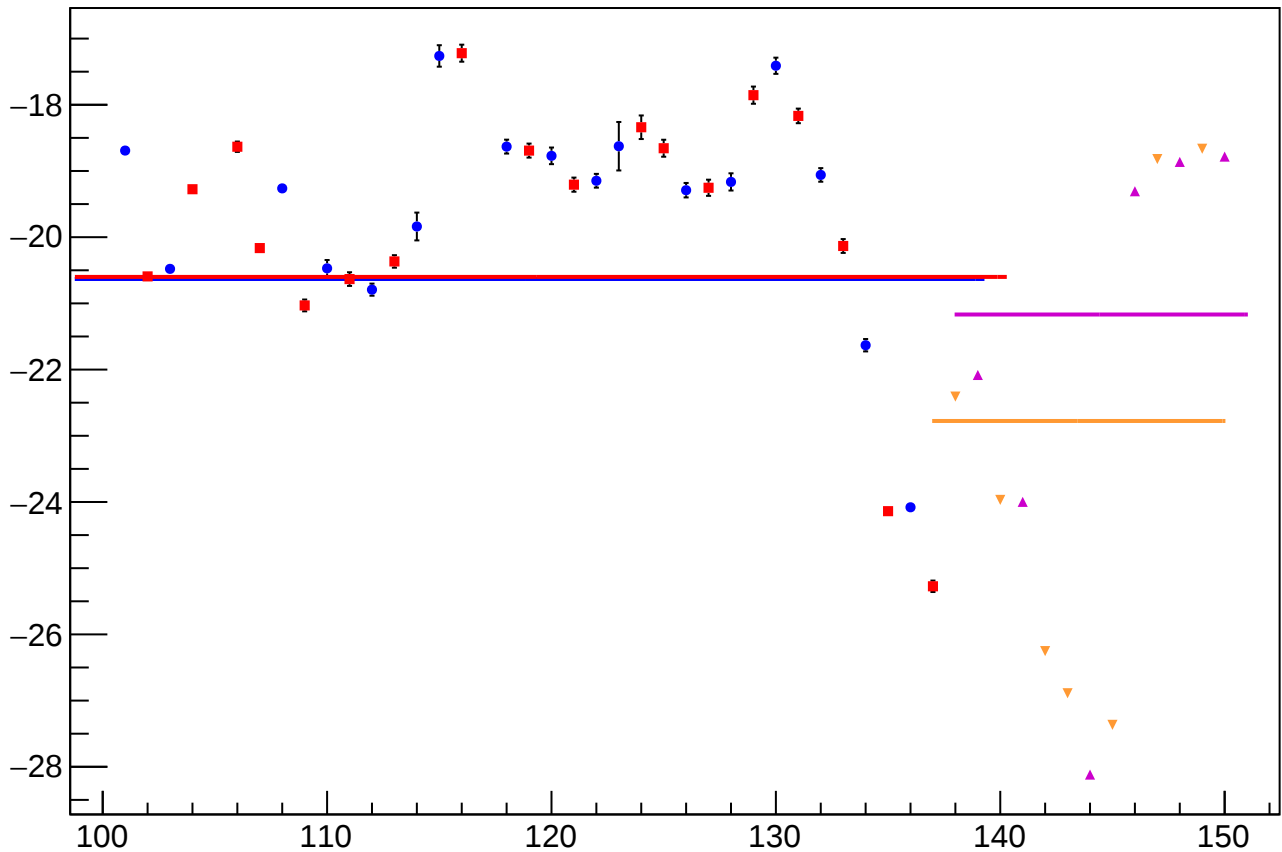
Right: 4.542 $\pm$ 0.259  $\chi^2$ /NDF: 819.9/34

In: 5.383 $\pm$ 0.235  $\chi^2$ /NDF:720.0/22

Out: 5.397 $\pm$ 0.241  $\chi^2$ /NDF:900.6/24

All: 5.389 $\pm$ 0.168  $\chi^2$ /NDF: 1620.6/47

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.631 $\pm$ 0.019  $\chi^2$ /NDF: 12501.6/16

Left Out: -22.776 $\pm$ 0.016  $\chi^2$ /NDF: 45172.4/6

Right Out: -20.600 $\pm$ 0.019  $\chi^2$ /NDF: 11973.7/17

Left In: -21.168 $\pm$ 0.016  $\chi^2$ /NDF: 36934.3/5

Left: -21.948 $\pm$ 0.011  $\chi^2$ /NDF: 87201.8/12

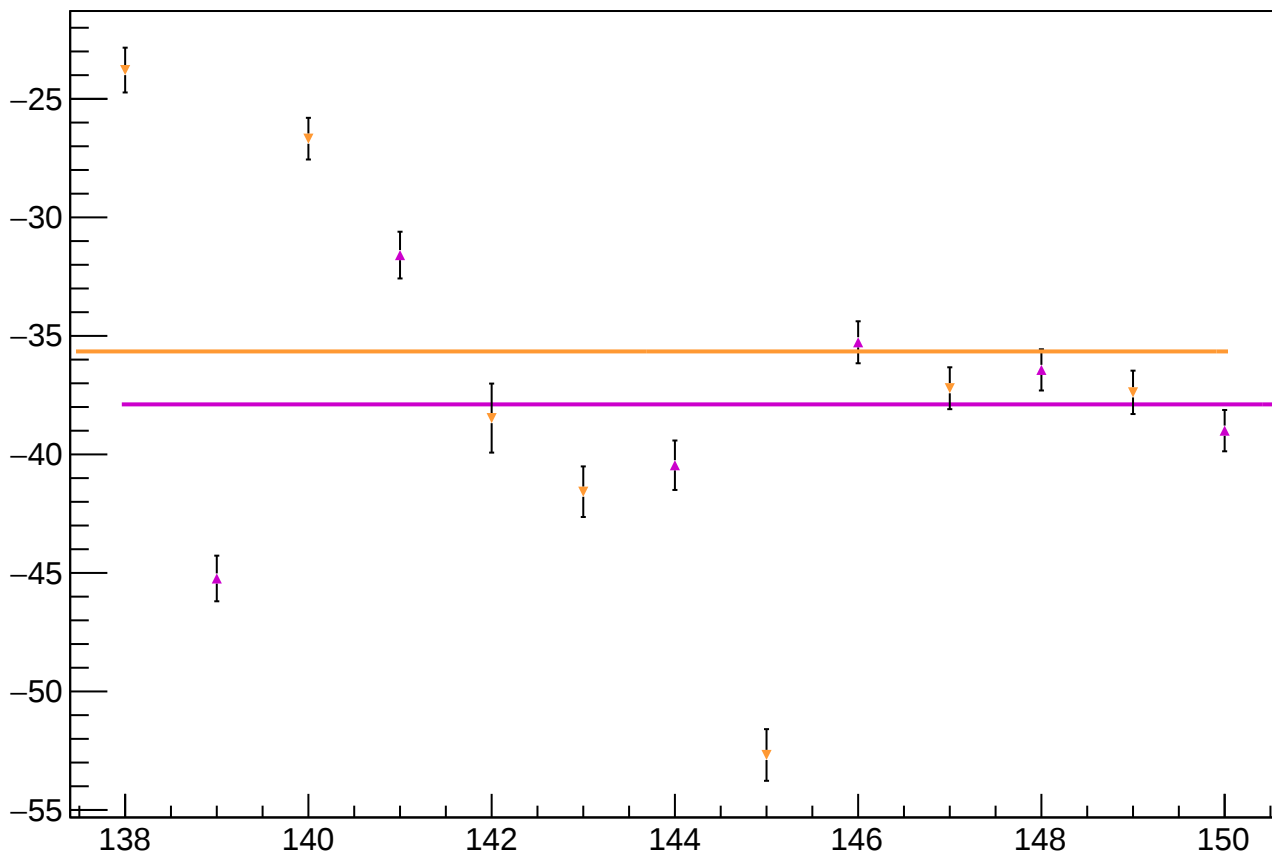
Right: -20.616 $\pm$ 0.014  $\chi^2$ /NDF: 24476.6/34

In: -20.954 $\pm$ 0.012  $\chi^2$ /NDF: 49901.4/22

Out: -21.888 $\pm$ 0.012  $\chi^2$ /NDF: 64546.7/24

All: -21.411 $\pm$ 0.009  $\chi^2$ /NDF: 117323.7/47

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: -35.655+/-0.376  $\chi^2/\text{NDF}$ :547.3/6

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

Left In: -37.889+/-0.379  $\chi^2/\text{NDF}$ :118.3/5

Left: -36.761+/-0.267  $\chi^2/\text{NDF}$ : 683.0/12

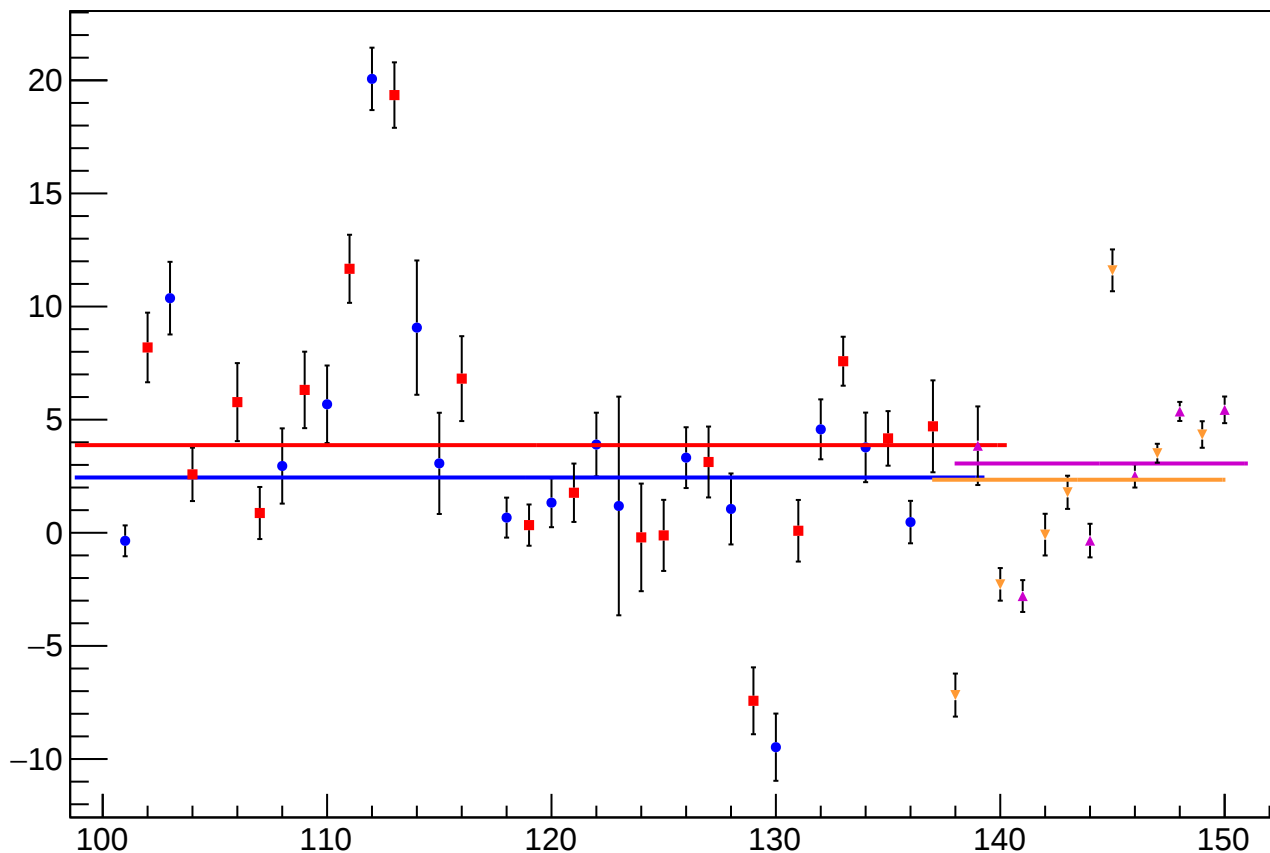
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.889+/-0.379  $\chi^2/\text{NDF}$ :118.3/5

Out: -35.655+/-0.376  $\chi^2/\text{NDF}$ :547.3/6

All: -36.761+/-0.267  $\chi^2/\text{NDF}$ : 683.0/12

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.444 \pm 0.312$   $\chi^2/\text{NDF}$ : 292.7/16

Left Out:  $2.345 \pm 0.251$   $\chi^2/\text{NDF}$ : 268.4/6

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

Left In:  $3.063 \pm 0.247$   $\chi^2/\text{NDF}$ : 137.7/5

Left:  $2.710 \pm 0.176$   $\chi^2/\text{NDF}$ : 410.3/12

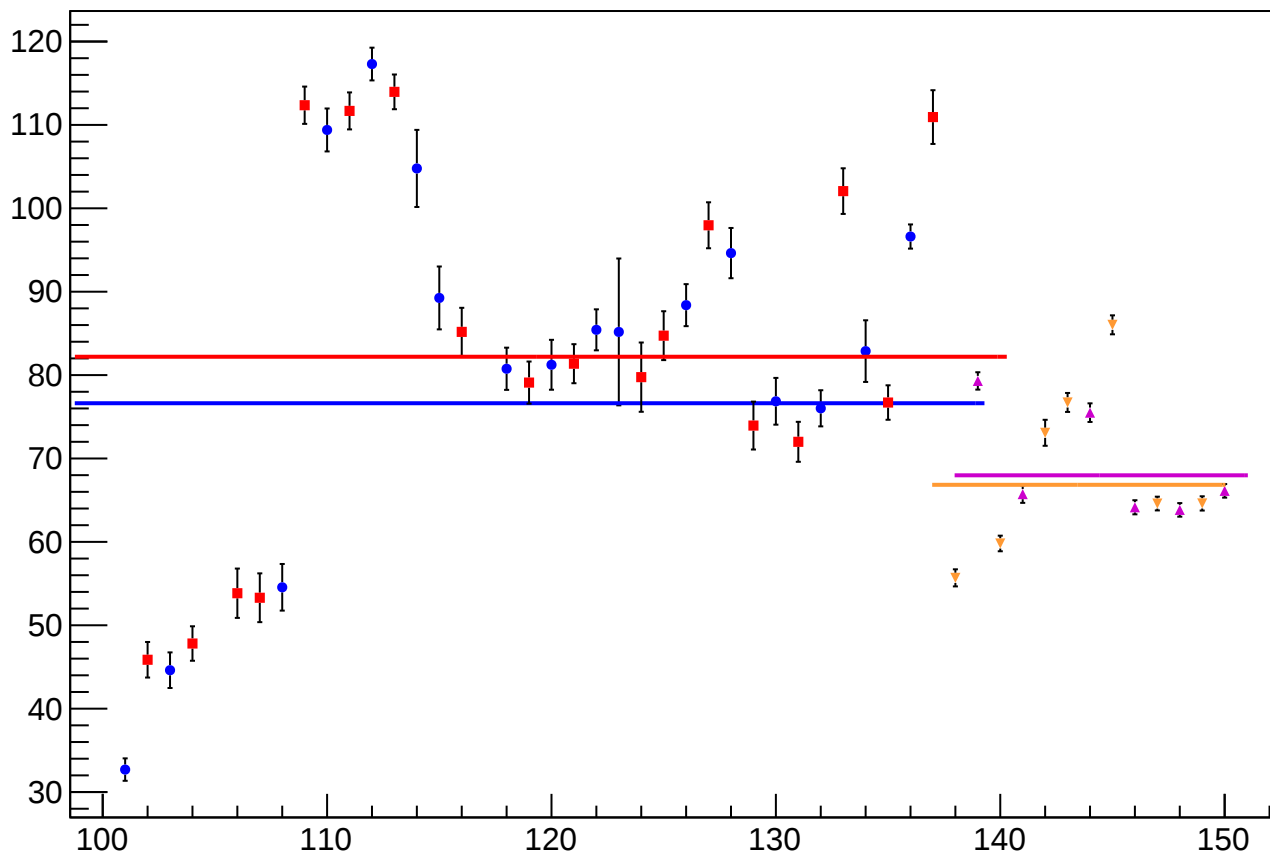
Right:  $3.125 \pm 0.226$   $\chi^2/\text{NDF}$ : 571.0/34

In:  $2.825 \pm 0.193$   $\chi^2/\text{NDF}$ : 432.8/22

Out:  $2.913 \pm 0.199$   $\chi^2/\text{NDF}$ : 550.5/24

All:  $2.867 \pm 0.139$   $\chi^2/\text{NDF}$ : 983.4/47

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: 66.843 $\pm$ 0.381  $\chi^2$ /NDF: 564.8/6

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

Left In: 67.983 $\pm$ 0.377  $\chi^2$ /NDF: 219.6/5

Left: 67.419 $\pm$ 0.268  $\chi^2$ /NDF: 789.0/12

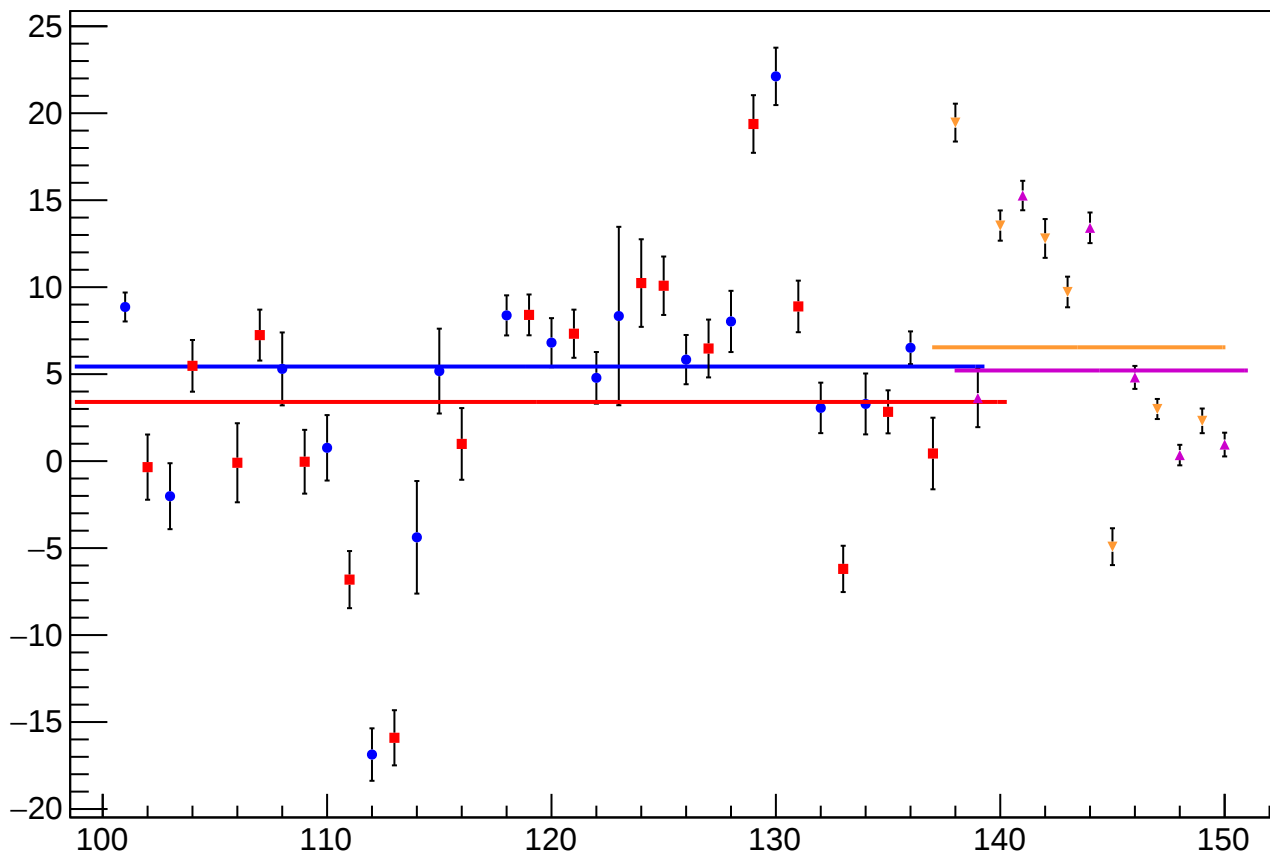
Right: 79.325 $\pm$ 0.413  $\chi^2$ /NDF: 3858.6/34

In: 70.583 $\pm$ 0.315  $\chi^2$ /NDF: 2640.7/22

Out: 71.332 $\pm$ 0.321  $\chi^2$ /NDF: 2589.8/24

All: 70.951 $\pm$ 0.225  $\chi^2$ /NDF: 5233.3/47

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:  $6.543 \pm 0.314$   $\chi^2/\text{NDF}: 440.6/6$

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}: 420.9/17$

Left In:  $5.210 \pm 0.311$   $\chi^2/\text{NDF}: 336.2/5$

Left:  $5.870 \pm 0.221$   $\chi^2/\text{NDF}: 785.8/12$

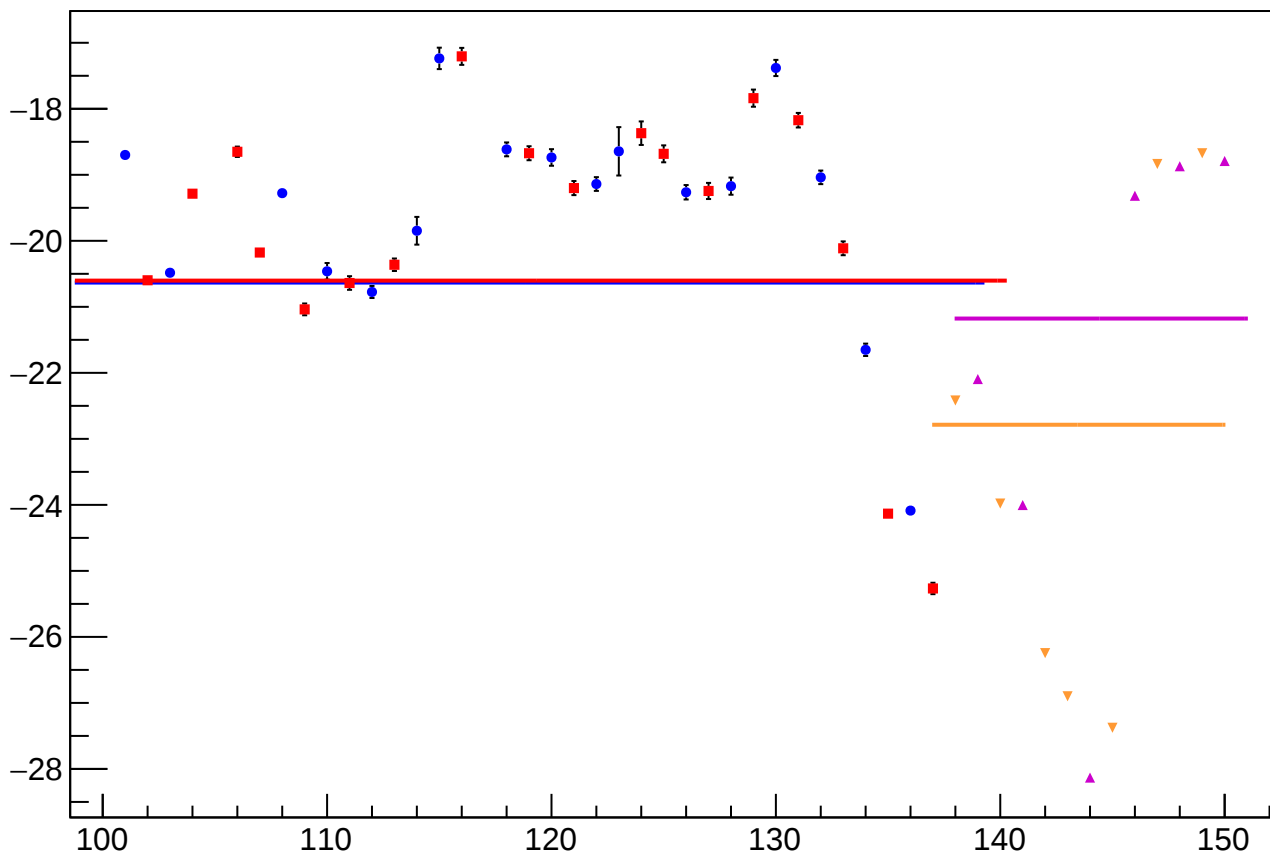
Right:  $4.467 \pm 0.259$   $\chi^2/\text{NDF}: 820.8/34$

In:  $5.308 \pm 0.235$   $\chi^2/\text{NDF}: 720.9/22$

Out:  $5.250 \pm 0.241$   $\chi^2/\text{NDF}: 902.7/24$

All:  $5.280 \pm 0.168$   $\chi^2/\text{NDF}: 1623.6/47$

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.632 $\pm$ 0.019  $\chi^2$ /NDF: 12543.2/16

Left Out: -22.786 $\pm$ 0.016  $\chi^2$ /NDF: 45070.8/6

Right Out: -20.603 $\pm$ 0.019  $\chi^2$ /NDF: 11925.8/17

Left In: -21.177 $\pm$ 0.016  $\chi^2$ /NDF: 36908.3/5

Left: -21.958 $\pm$ 0.011  $\chi^2$ /NDF: 87071.2/12

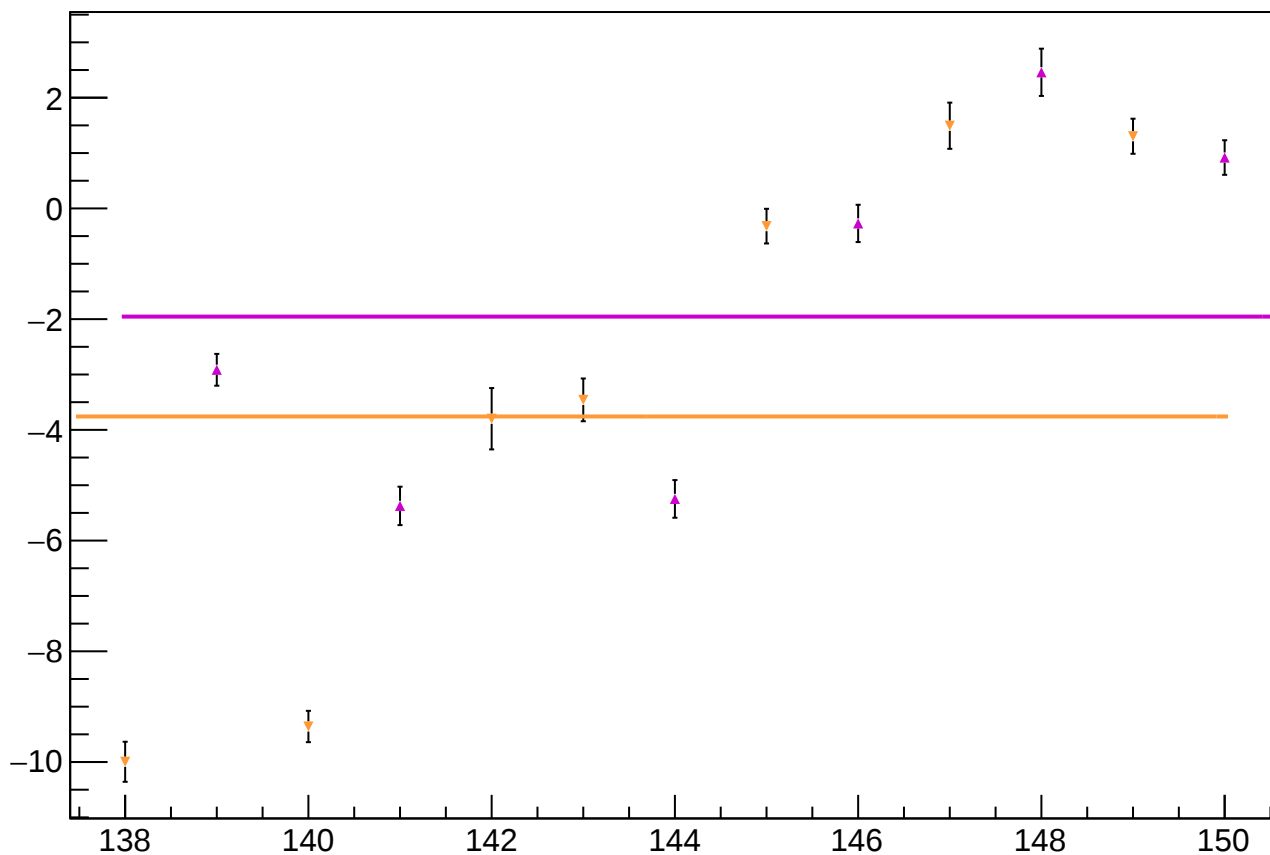
Right: -20.618 $\pm$ 0.014  $\chi^2$ /NDF: 24470.2/34

In: -20.960 $\pm$ 0.012  $\chi^2$ /NDF: 49931.4/22

Out: -21.894 $\pm$ 0.012  $\chi^2$ /NDF: 64438.1/24

All: -21.418 $\pm$ 0.009  $\chi^2$ /NDF: 117247.6/47

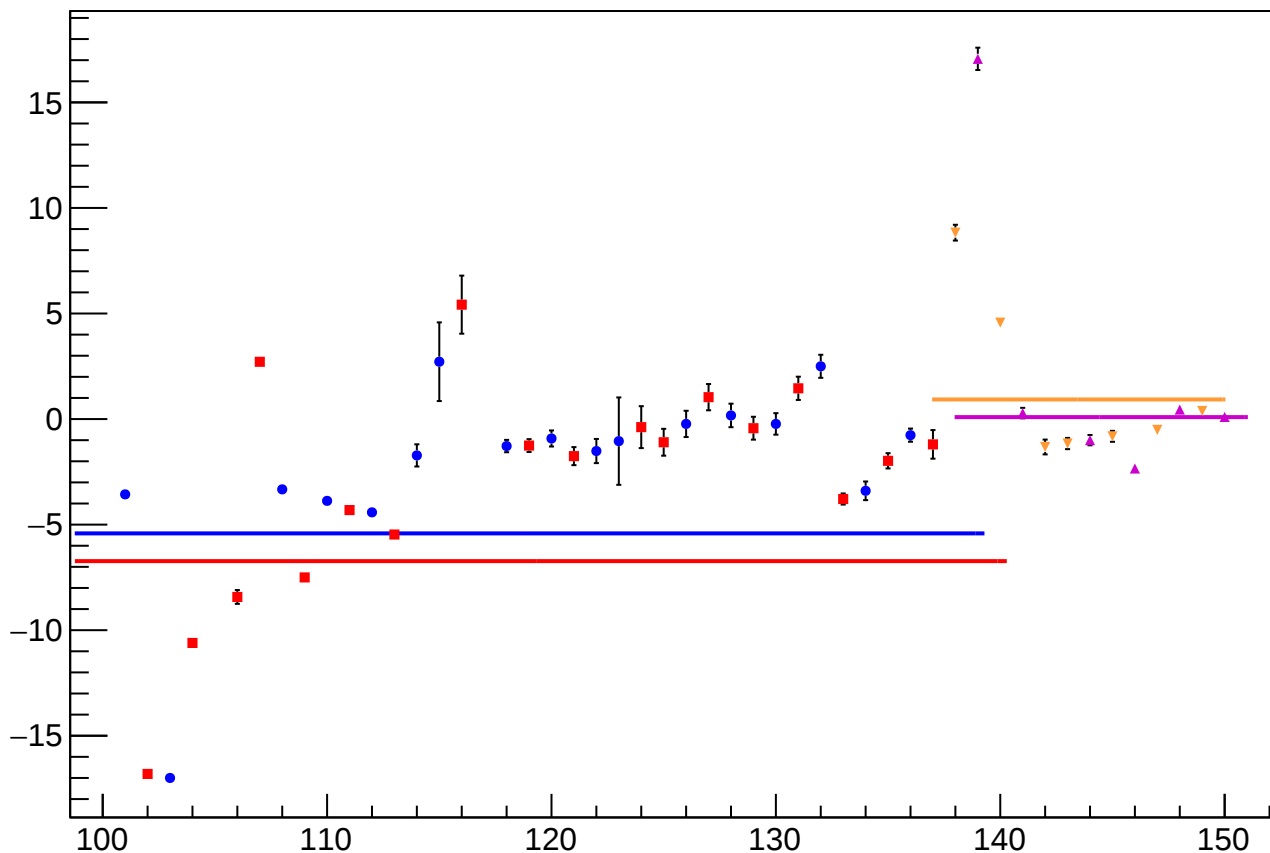
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.758+/-0.134  $\chi^2/\text{NDF}$ :1224.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.954+/-0.137  $\chi^2/\text{NDF}$ :418.5/5

Left: -2.876+/-0.096  $\chi^2/\text{NDF}$ : 1731.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.954+/-0.137  $\chi^2/\text{NDF}$ :418.5/5  
 Out: -3.758+/-0.134  $\chi^2/\text{NDF}$ :1224.2/6  
 All: -2.876+/-0.096  $\chi^2/\text{NDF}$ : 1731.8/12

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-5.415 \pm 0.055$   $\chi^2/\text{NDF}: 9255.1/16$

Left Out:  $0.929 \pm 0.095$   $\chi^2/\text{NDF}: 891.0/6$

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}: 11217.0/17$

Left In:  $0.093 \pm 0.098$   $\chi^2/\text{NDF}: 1182.4/5$

Left:  $0.526 \pm 0.068$   $\chi^2/\text{NDF}: 2110.8/12$

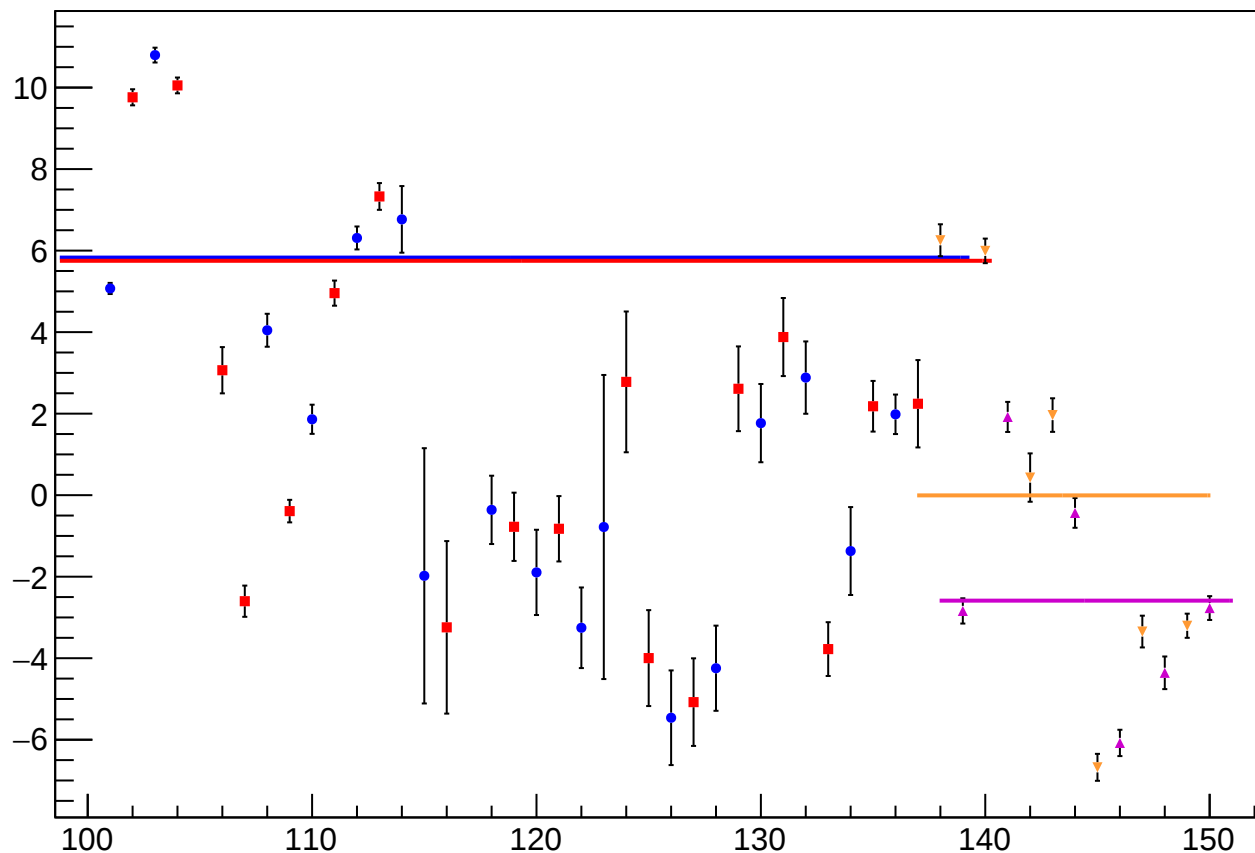
Right:  $-6.014 \pm 0.040$   $\chi^2/\text{NDF}: 20734.4/34$

In:  $-4.114 \pm 0.048$   $\chi^2/\text{NDF}: 12827.4/22$

Out:  $-4.554 \pm 0.051$   $\chi^2/\text{NDF}: 16761.7/24$

All:  $-4.322 \pm 0.035$   $\chi^2/\text{NDF}: 29629.0/47$

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:  $-0.005 \pm 0.137$   $\chi^2/\text{NDF}: 1271.2/6$

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}: 2511.0/17$

Left In:  $-2.588 \pm 0.138$   $\chi^2/\text{NDF}: 321.6/5$

Left:  $-1.290 \pm 0.097$   $\chi^2/\text{NDF}: 1769.8/12$

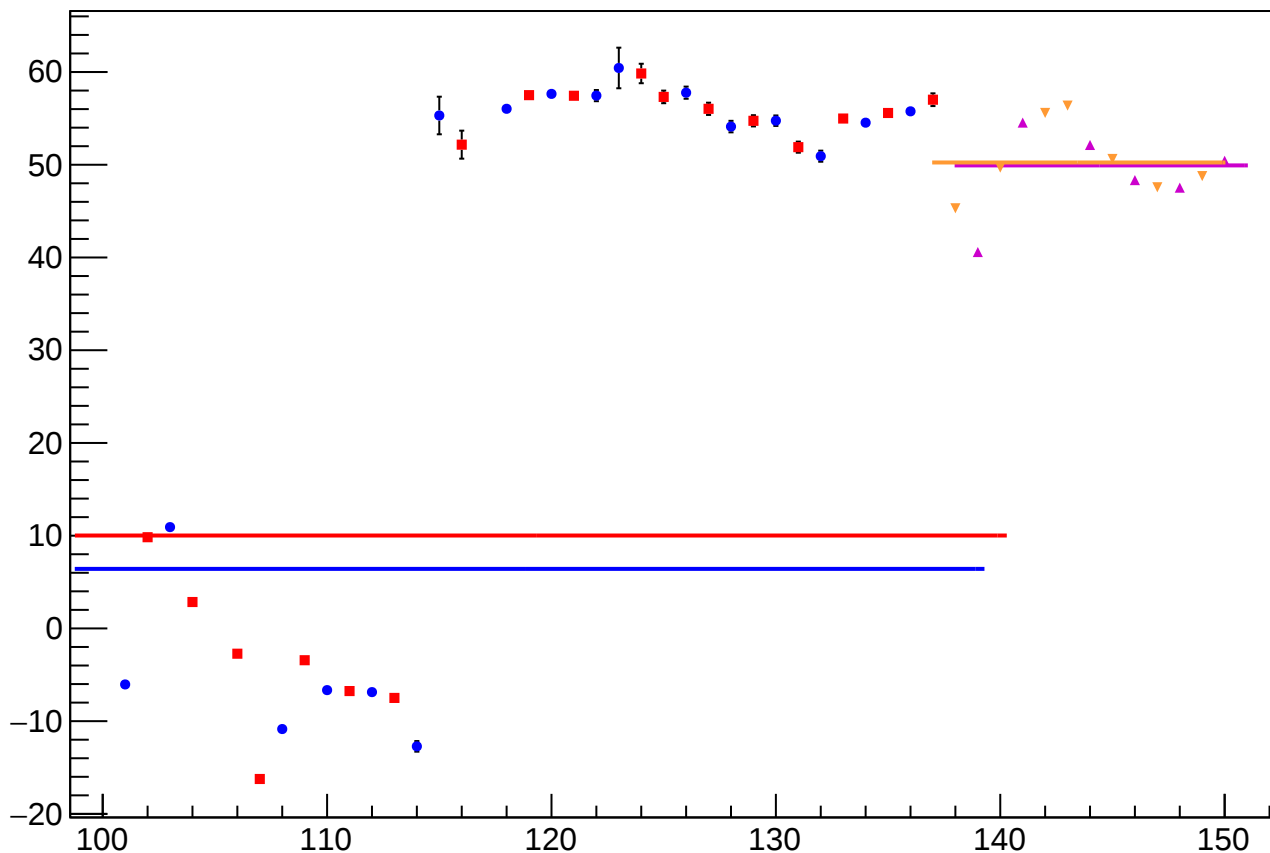
Right:  $5.792 \pm 0.066$   $\chi^2/\text{NDF}: 3959.6/34$

In:  $3.322 \pm 0.075$   $\chi^2/\text{NDF}: 4397.4/22$

Out:  $3.847 \pm 0.079$   $\chi^2/\text{NDF}: 4965.3/24$

All:  $3.572 \pm 0.054$   $\chi^2/\text{NDF}: 9386.0/47$

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $6.421 \pm 0.065$   $\chi^2/\text{NDF}$ : 123109.7/16

Left Out:  $50.245 \pm 0.116$   $\chi^2/\text{NDF}$ : 797.7/6

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}$ : 122082.4/17

Left In:  $49.930 \pm 0.120$   $\chi^2/\text{NDF}$ : 740.3/5

Left:  $50.093 \pm 0.083$   $\chi^2/\text{NDF}$ : 1541.6/12

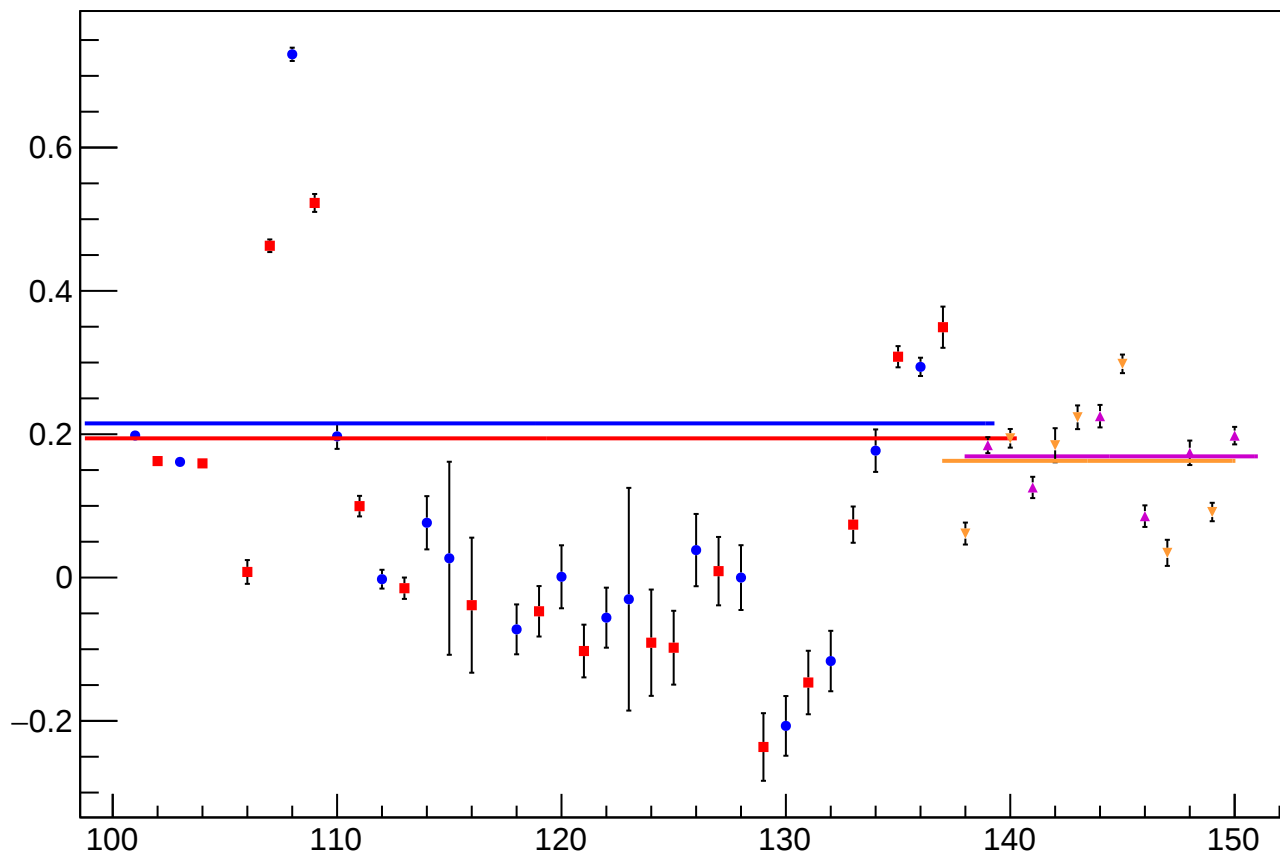
Right:  $8.061 \pm 0.048$   $\chi^2/\text{NDF}$ : 246600.2/34

In:  $16.252 \pm 0.057$   $\chi^2/\text{NDF}$ : 225925.9/22

Out:  $20.925 \pm 0.060$   $\chi^2/\text{NDF}$ : 210591.0/24

All:  $18.452 \pm 0.041$   $\chi^2/\text{NDF}$ : 439686.7/47

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 3927.2/16

Left Out: 0.163 $\pm$ 0.006  $\chi^2$ /NDF:253.6/6

Right Out: 0.194 $\pm$ 0.003  $\chi^2$ /NDF: 2520.1/17

Left In: 0.169 $\pm$ 0.006  $\chi^2$ /NDF:59.7/5

Left: 0.166 $\pm$ 0.004  $\chi^2$ /NDF: 313.9/12

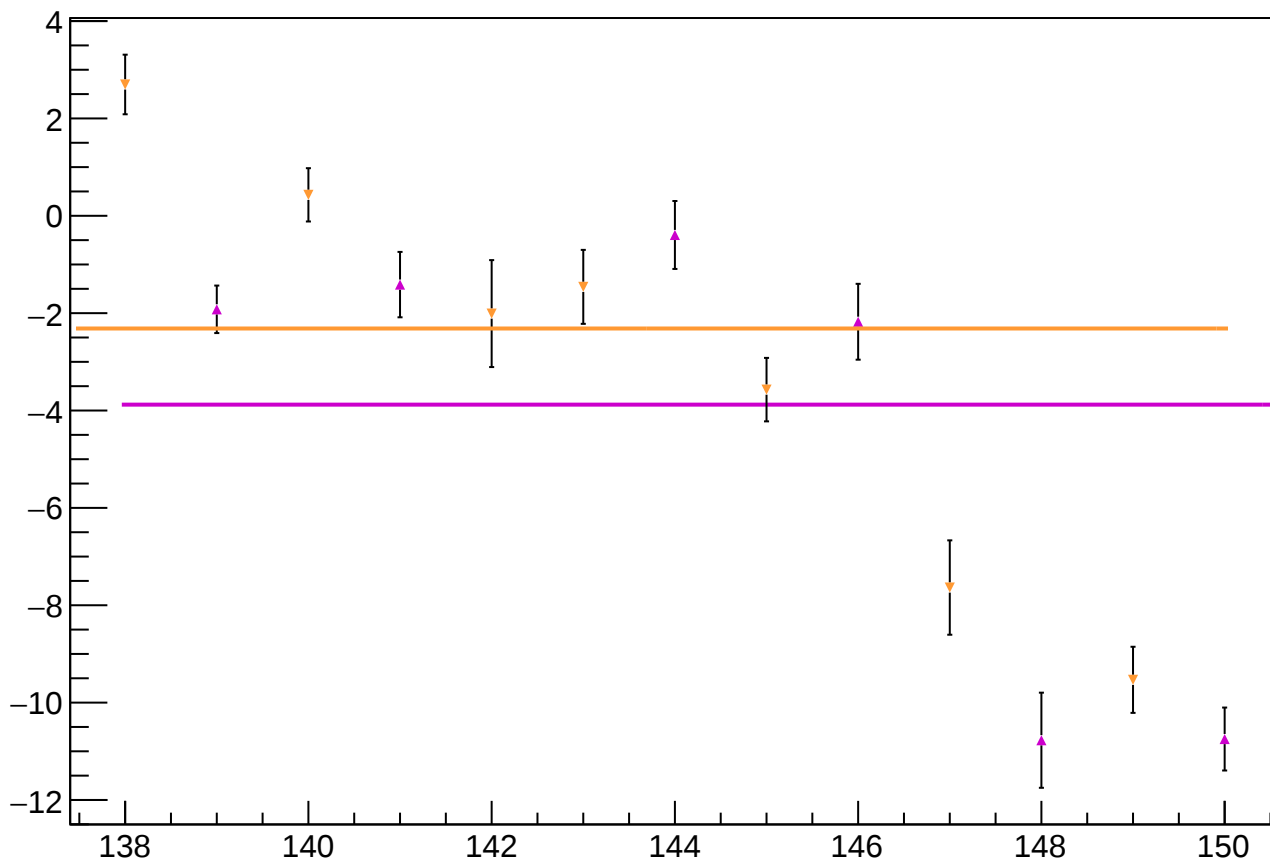
Right: 0.205 $\pm$ 0.002  $\chi^2$ /NDF: 6475.9/34

In: 0.206 $\pm$ 0.002  $\chi^2$ /NDF:4040.1/22

Out: 0.188 $\pm$ 0.002  $\chi^2$ /NDF:2798.2/24

All: 0.197 $\pm$ 0.002  $\chi^2$ /NDF: 6864.3/47

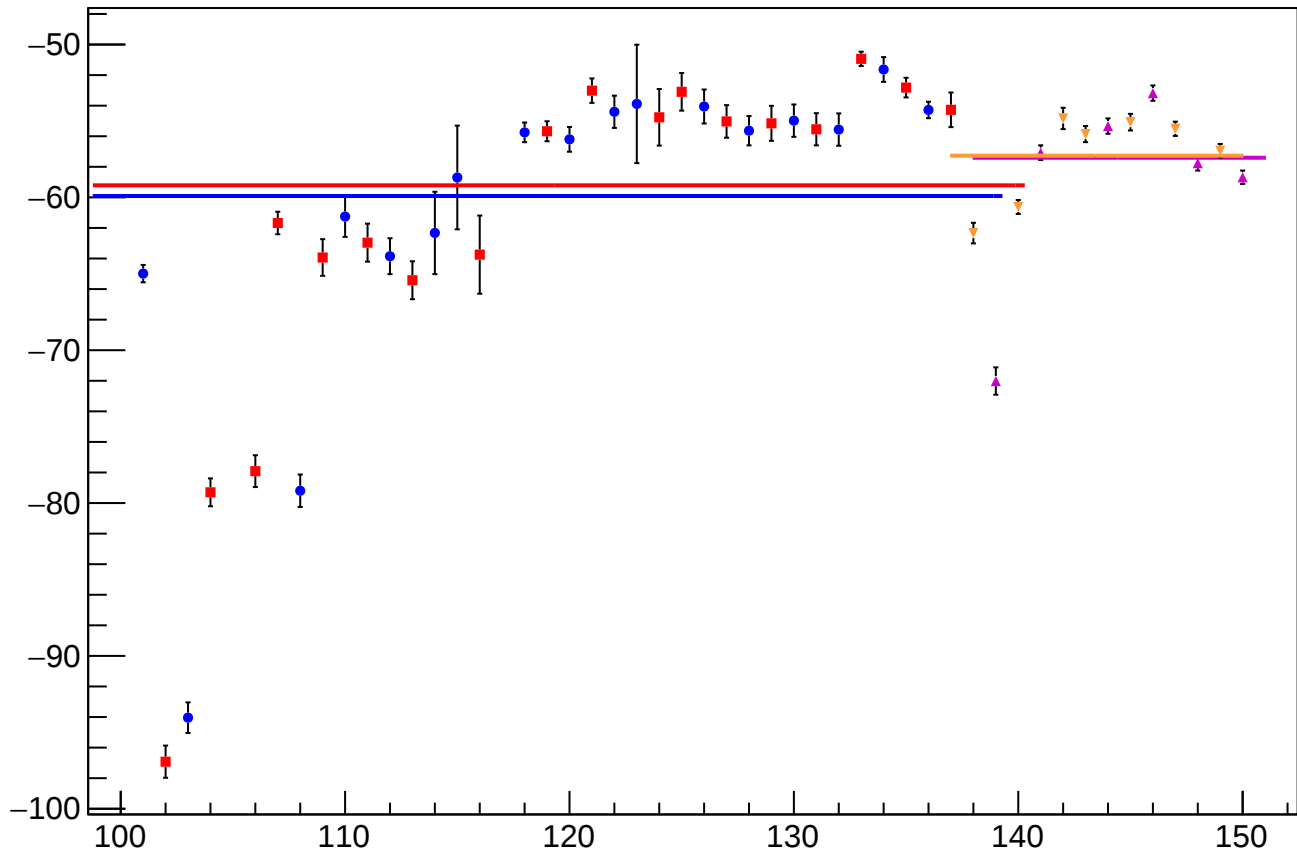
reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.315+/-0.266  $\chi^2/\text{NDF}$ :240.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.879+/-0.272  $\chi^2/\text{NDF}$ :222.0/5

Left: -3.080+/-0.190  $\chi^2/\text{NDF}$ : 479.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.879+/-0.272  $\chi^2/\text{NDF}$ :222.0/5  
 Out: -2.315+/-0.266  $\chi^2/\text{NDF}$ :240.3/6  
 All: -3.080+/-0.190  $\chi^2/\text{NDF}$ : 479.3/12

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:  $-57.271 \pm 0.197$   $\chi^2/\text{NDF}$ : 160.8/6

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

Left In:  $-57.407 \pm 0.209$   $\chi^2/\text{NDF}$ : 363.6/5

Left:  $-57.335 \pm 0.143$   $\chi^2/\text{NDF}$ : 524.6/12

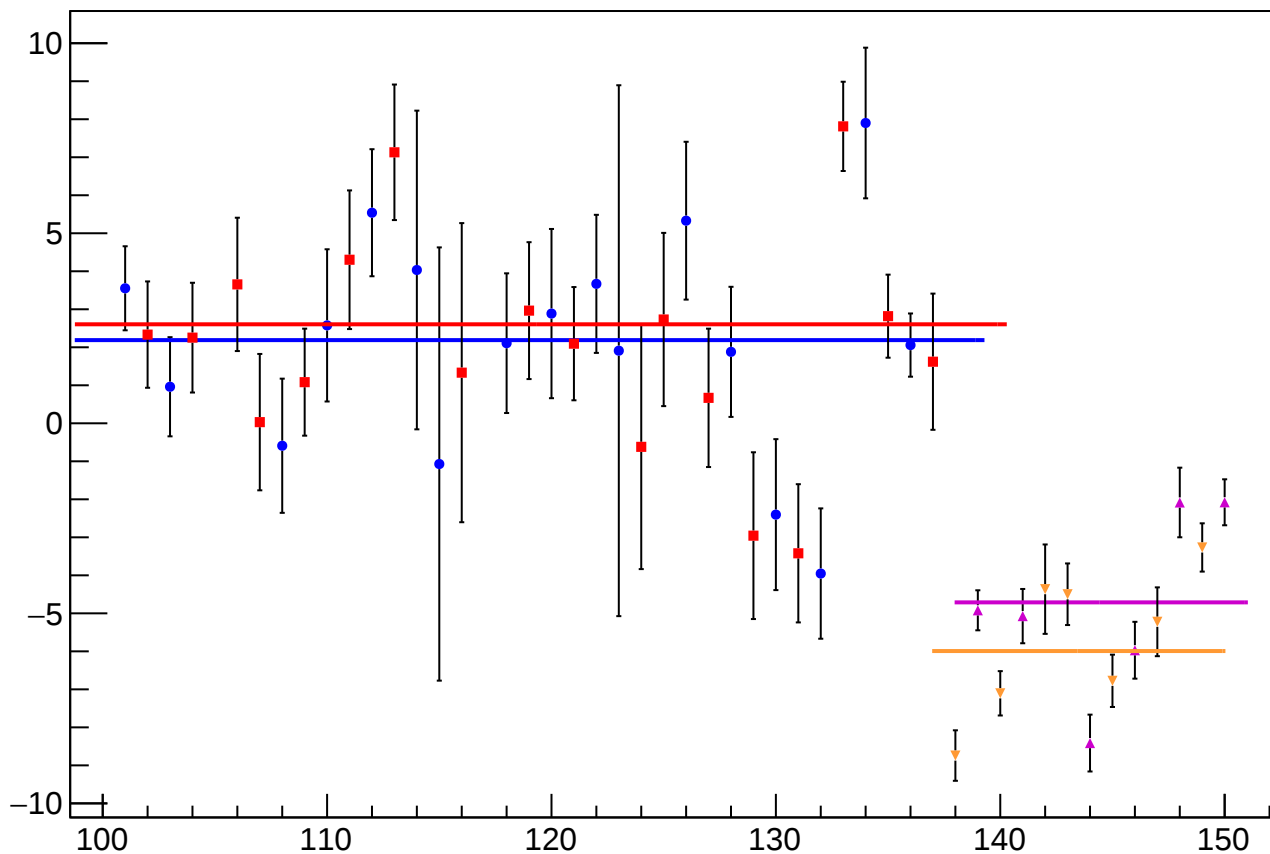
Right:  $-59.544 \pm 0.154$   $\chi^2/\text{NDF}$ : 4728.9/34

In:  $-58.578 \pm 0.153$   $\chi^2/\text{NDF}$ : 2411.4/22

Out:  $-58.169 \pm 0.144$   $\chi^2/\text{NDF}$ : 2948.6/24

All:  $-58.362 \pm 0.105$   $\chi^2/\text{NDF}$ : 5363.7/47

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:  $-5.992 \pm 0.275$   $\chi^2/\text{NDF}: 46.5/6$

Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}: 50.8/17$

Left In:  $-4.712 \pm 0.277$   $\chi^2/\text{NDF}: 54.9/5$

Left:  $-5.356 \pm 0.195$   $\chi^2/\text{NDF}: 112.3/12$

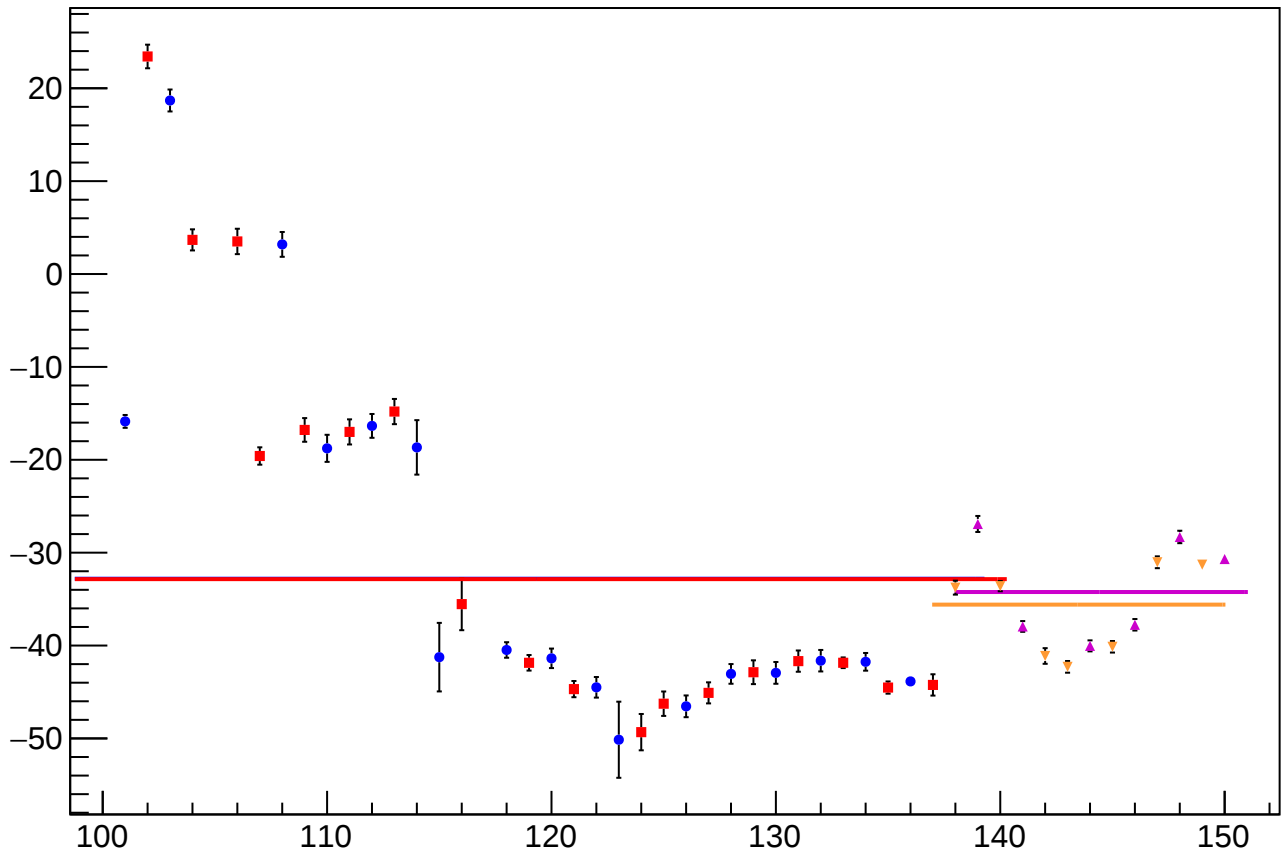
Right:  $2.404 \pm 0.281$   $\chi^2/\text{NDF}: 90.4/34$

In:  $-2.513 \pm 0.228$   $\chi^2/\text{NDF}: 292.3/22$

Out:  $-3.151 \pm 0.225$   $\chi^2/\text{NDF}: 421.2/24$

All:  $-2.837 \pm 0.160$   $\chi^2/\text{NDF}: 717.4/47$

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:  $-35.594 \pm 0.238$   $\chi^2/\text{NDF}: 345.6/6$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

Left In:  $-34.237 \pm 0.251$   $\chi^2/\text{NDF}: 368.0/5$

Left:  $-34.951 \pm 0.173$   $\chi^2/\text{NDF}: 729.0/12$

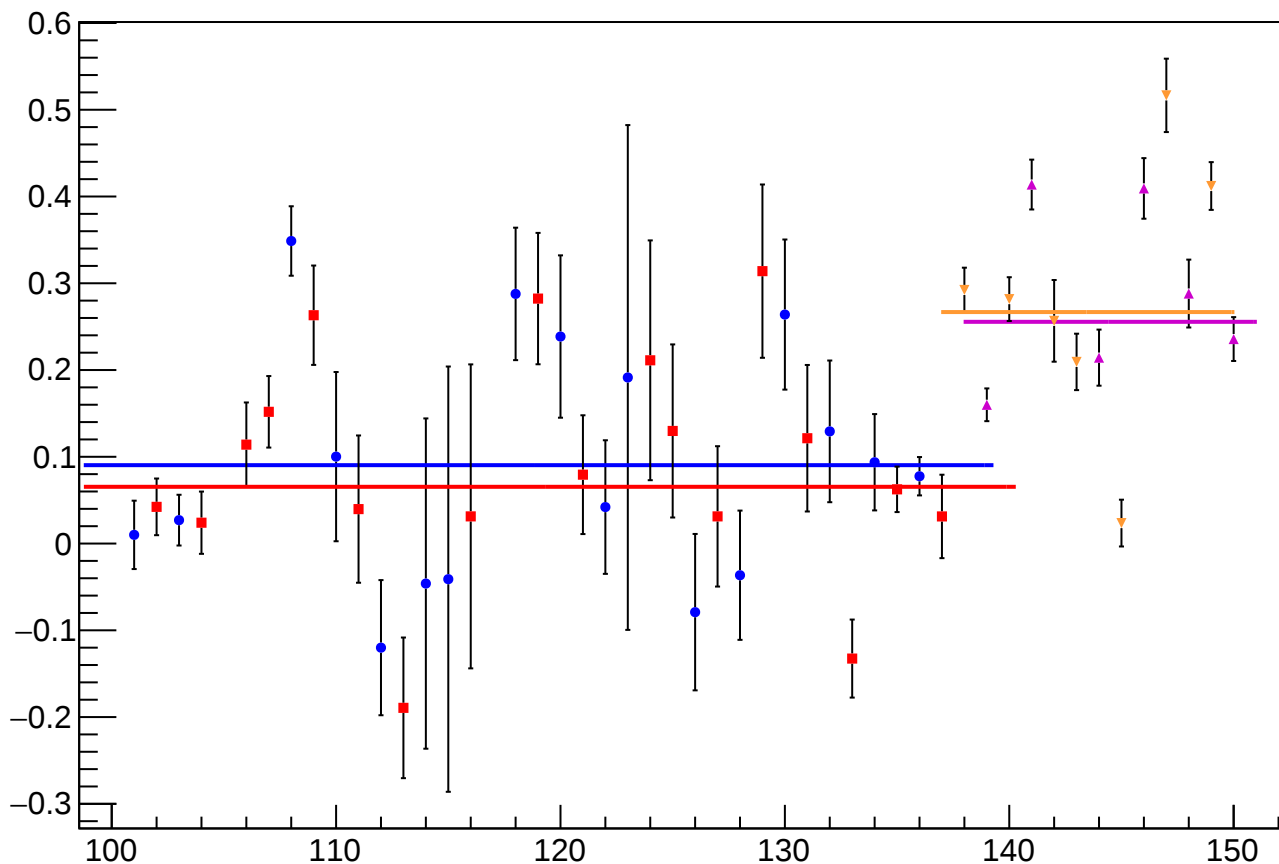
Right:  $-32.829 \pm 0.176$   $\chi^2/\text{NDF}: 10413.1/34$

In:  $-33.531 \pm 0.179$   $\chi^2/\text{NDF}: 5046.9/22$

Out:  $-34.257 \pm 0.171$   $\chi^2/\text{NDF}: 6160.5/24$

All:  $-33.911 \pm 0.123$   $\chi^2/\text{NDF}: 11216.1/47$

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: 0.267 $\pm$ 0.011  $\chi^2$ /NDF:148.6/6

Right Out: 0.065 $\pm$ 0.012  $\chi^2$ /NDF: 65.7/17

Left In: 0.256 $\pm$ 0.011  $\chi^2$ /NDF:78.3/5

Left: 0.261 $\pm$ 0.008  $\chi^2$ /NDF: 227.4/12

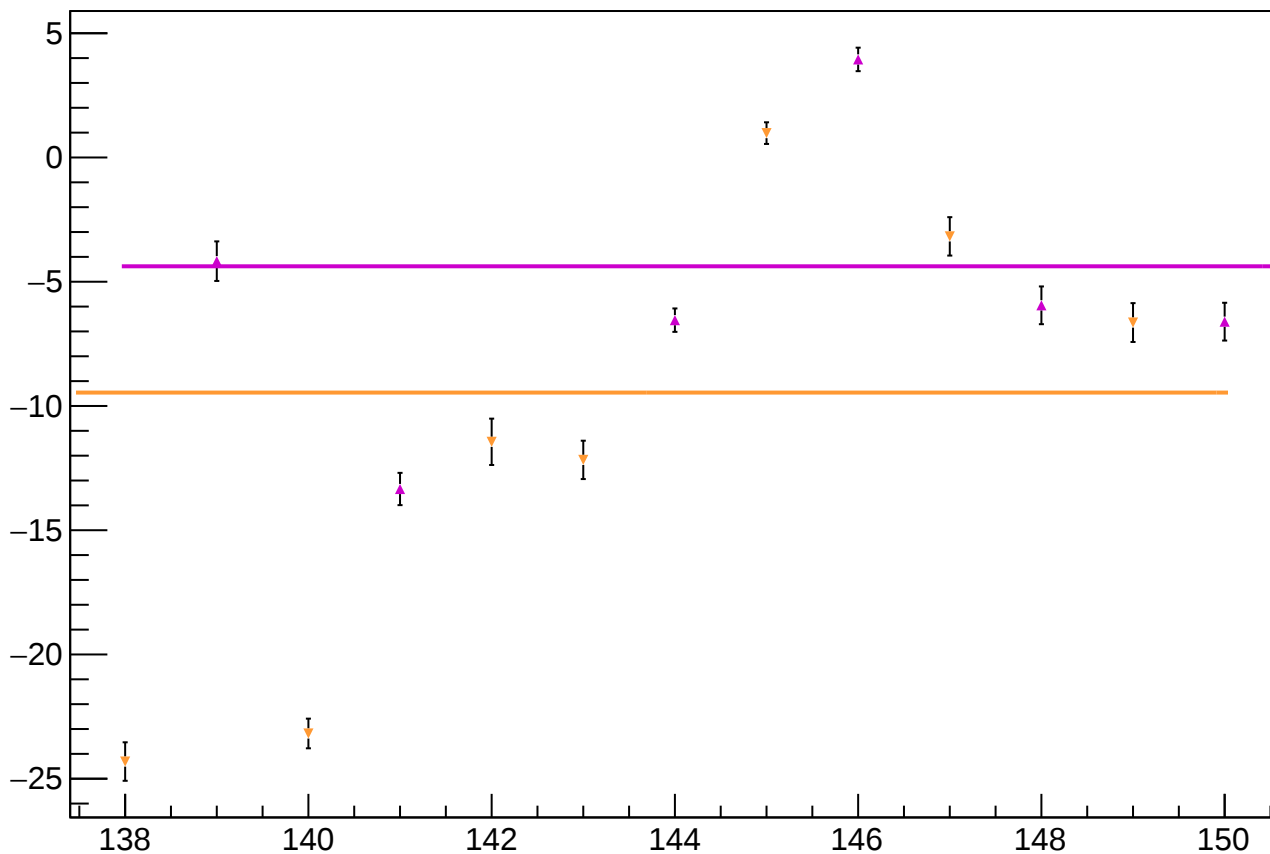
Right: 0.077 $\pm$ 0.009  $\chi^2$ /NDF: 147.0/34

In: 0.184 $\pm$ 0.008  $\chi^2$ /NDF:252.9/22

Out: 0.174 $\pm$ 0.008  $\chi^2$ /NDF:359.5/24

All: 0.179 $\pm$ 0.006  $\chi^2$ /NDF: 613.2/47

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



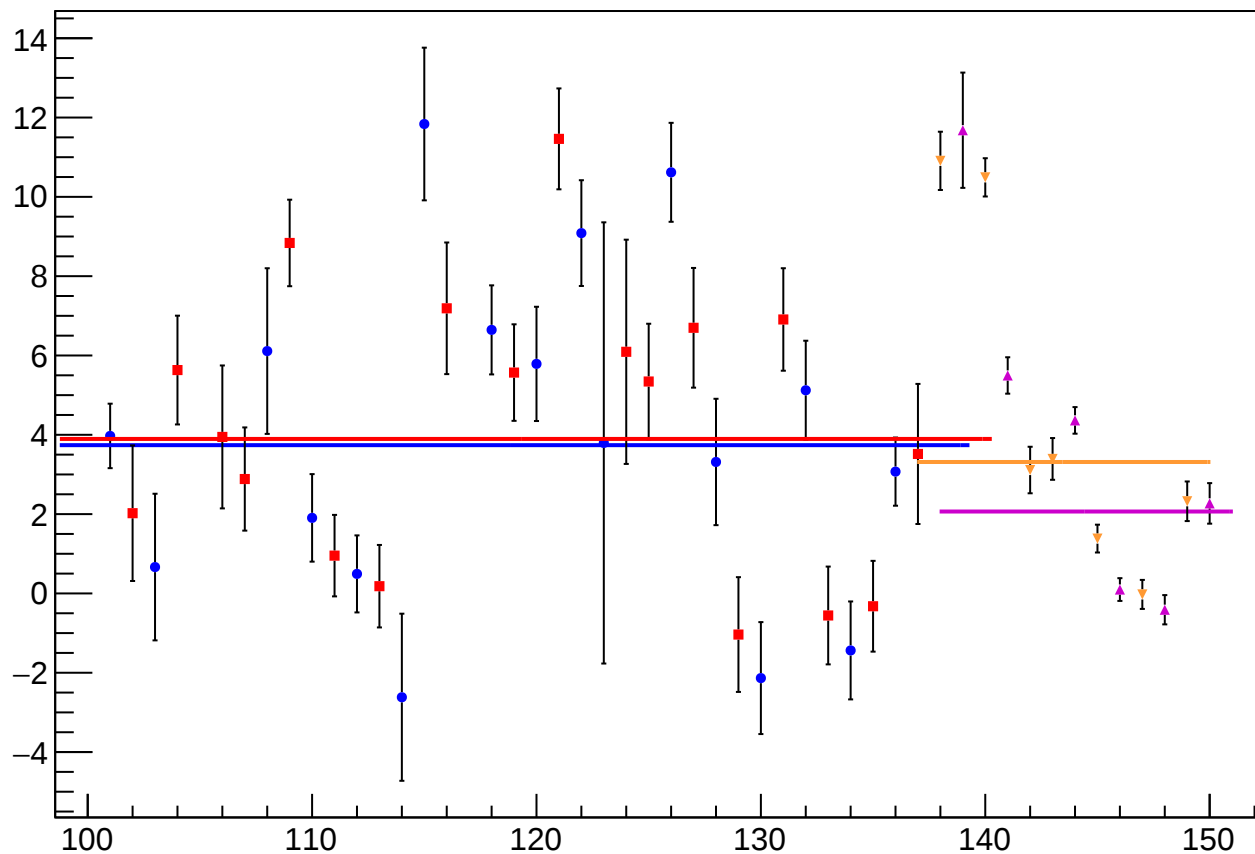
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.461+/-0.251  $\chi^2/\text{NDF}$ :1565.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.379+/-0.247  $\chi^2/\text{NDF}$ :535.0/5

Left: -6.879+/-0.176  $\chi^2/\text{NDF}$ : 2308.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.379+/-0.247  $\chi^2/\text{NDF}$ :535.0/5  
 Out: -9.461+/-0.251  $\chi^2/\text{NDF}$ :1565.5/6

All: -6.879+/-0.176  $\chi^2/\text{NDF}$ : 2308.8/12

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:  $3.314 \pm 0.176$   $\chi^2/\text{NDF}$ : 445.8/6

Right Out:  $3.896 \pm 0.316$   $\chi^2/\text{NDF}$ : 134.9/17

Left In:  $2.066 \pm 0.163$   $\chi^2/\text{NDF}$ : 238.8/5

Left:  $2.644 \pm 0.120$   $\chi^2/\text{NDF}$ : 711.6/12

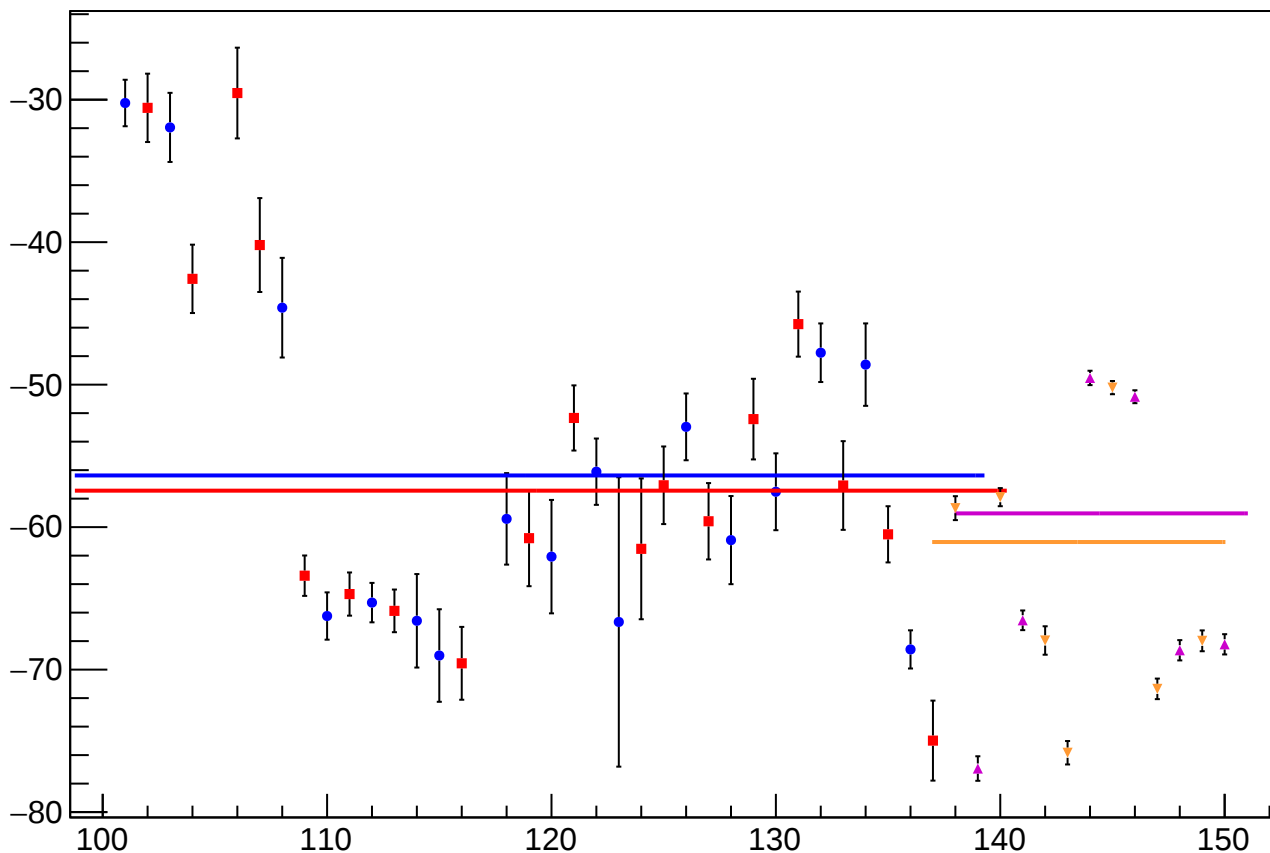
Right:  $3.815 \pm 0.221$   $\chi^2/\text{NDF}$ : 271.9/34

In:  $2.431 \pm 0.144$   $\chi^2/\text{NDF}$ : 398.6/22

Out:  $3.452 \pm 0.154$   $\chi^2/\text{NDF}$ : 583.2/24

All:  $2.910 \pm 0.105$   $\chi^2/\text{NDF}$ : 1005.2/47

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:  $-61.044 \pm 0.260$   $\chi^2/\text{NDF}$ : 1243.5/6

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}$ : 441.0/17

Left In:  $-59.035 \pm 0.249$   $\chi^2/\text{NDF}$ : 1580.4/5

Left:  $-59.996 \pm 0.180$   $\chi^2/\text{NDF}$ : 2855.1/12

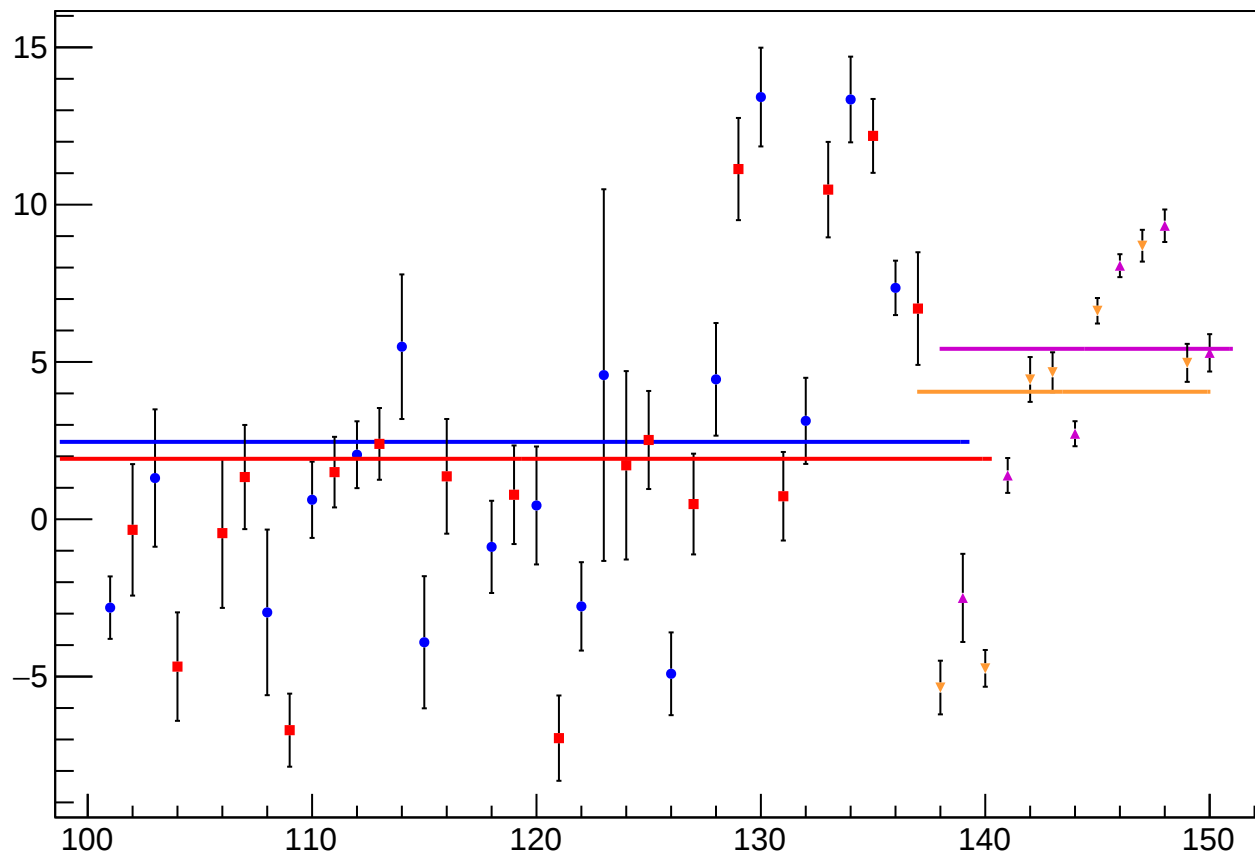
Right:  $-56.912 \pm 0.382$   $\chi^2/\text{NDF}$ : 1030.5/34

In:  $-58.574 \pm 0.226$   $\chi^2/\text{NDF}$ : 2187.9/22

Out:  $-60.361 \pm 0.234$   $\chi^2/\text{NDF}$ : 1721.0/24

All:  $-59.437 \pm 0.163$   $\chi^2/\text{NDF}$ : 3939.0/47

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 2.460 $\pm$ 0.346  $\chi^2$ /NDF: 243.9/16

Left Out: 4.053 $\pm$ 0.216  $\chi^2$ /NDF: 476.4/6

Right Out: 1.922 $\pm$ 0.355  $\chi^2$ /NDF: 265.1/17

Left In: 5.418 $\pm$ 0.203  $\chi^2$ /NDF: 240.6/5

Left: 4.775 $\pm$ 0.148  $\chi^2$ /NDF: 738.2/12

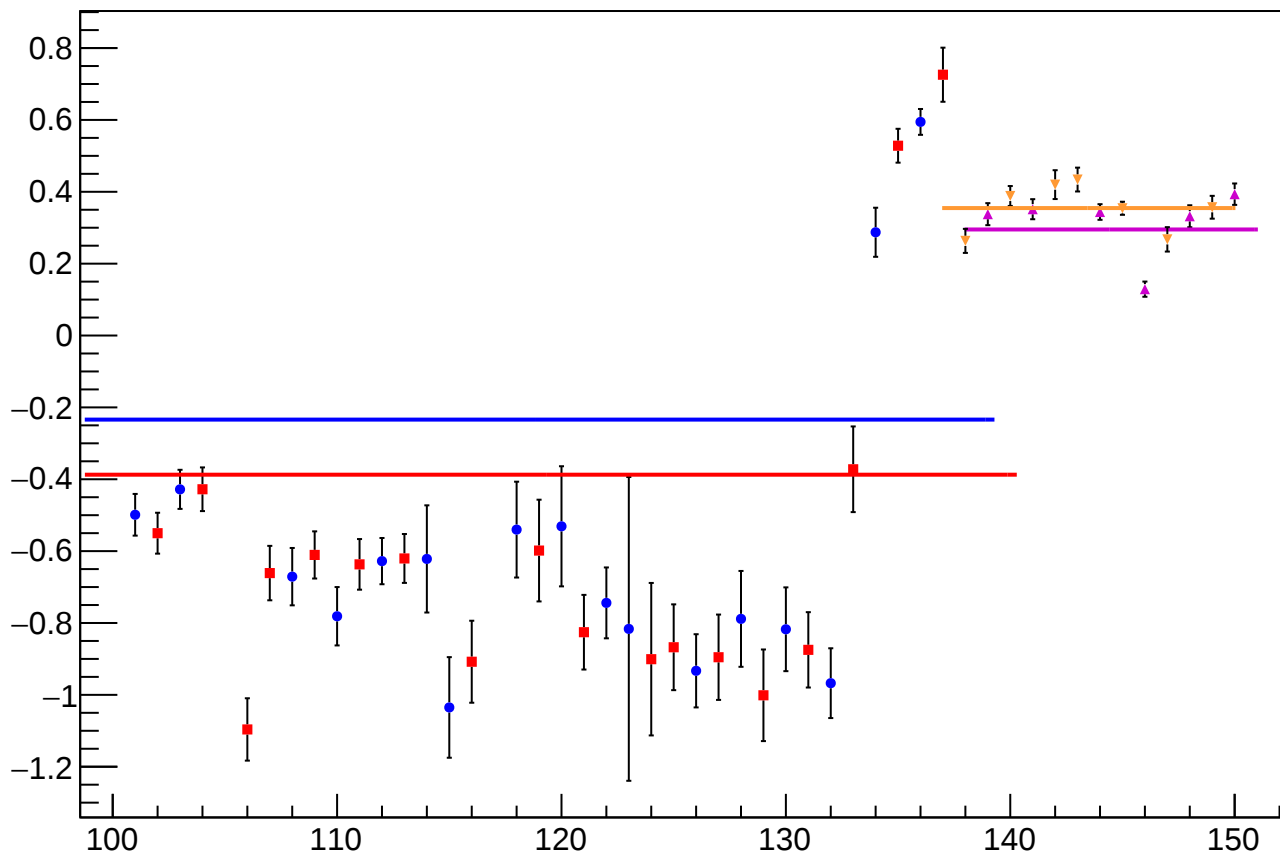
Right: 2.198 $\pm$ 0.248  $\chi^2$ /NDF: 510.2/34

In: 4.659 $\pm$ 0.175  $\chi^2$ /NDF: 538.8/22

Out: 3.479 $\pm$ 0.184  $\chi^2$ /NDF: 767.9/24

All: 4.098 $\pm$ 0.127  $\chi^2$ /NDF: 1328.2/47

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:  $0.355 \pm 0.011$   $\chi^2/\text{NDF}$ : 23.9/6

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

Left In:  $0.295 \pm 0.011$   $\chi^2/\text{NDF}$ : 84.9/5

Left:  $0.324 \pm 0.008$   $\chi^2/\text{NDF}$ : 124.3/12

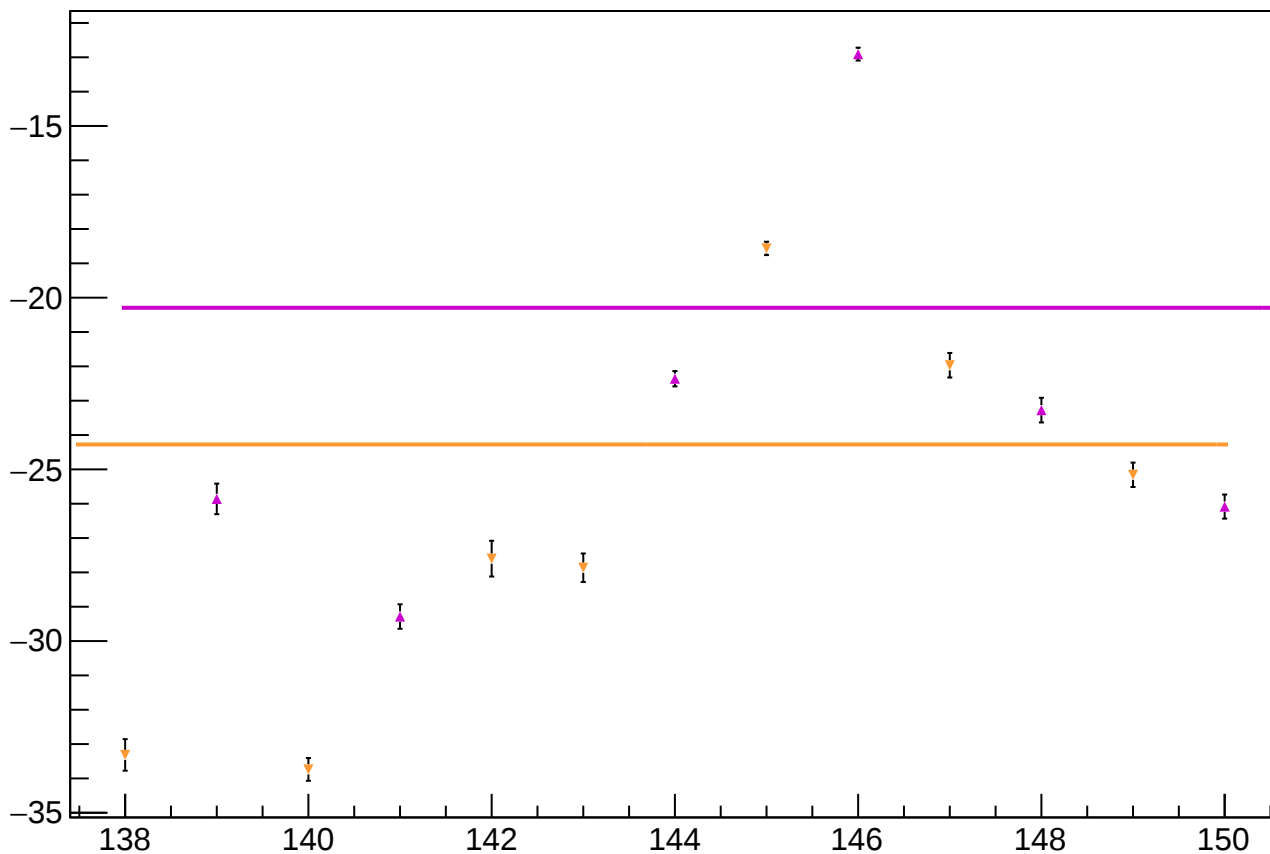
Right:  $-0.310 \pm 0.013$   $\chi^2/\text{NDF}$ : 1837.6/34

In:  $0.168 \pm 0.009$   $\chi^2/\text{NDF}$ : 1639.5/22

Out:  $0.174 \pm 0.009$   $\chi^2/\text{NDF}$ : 2023.8/24

All:  $0.171 \pm 0.007$   $\chi^2/\text{NDF}$ : 3663.5/47

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



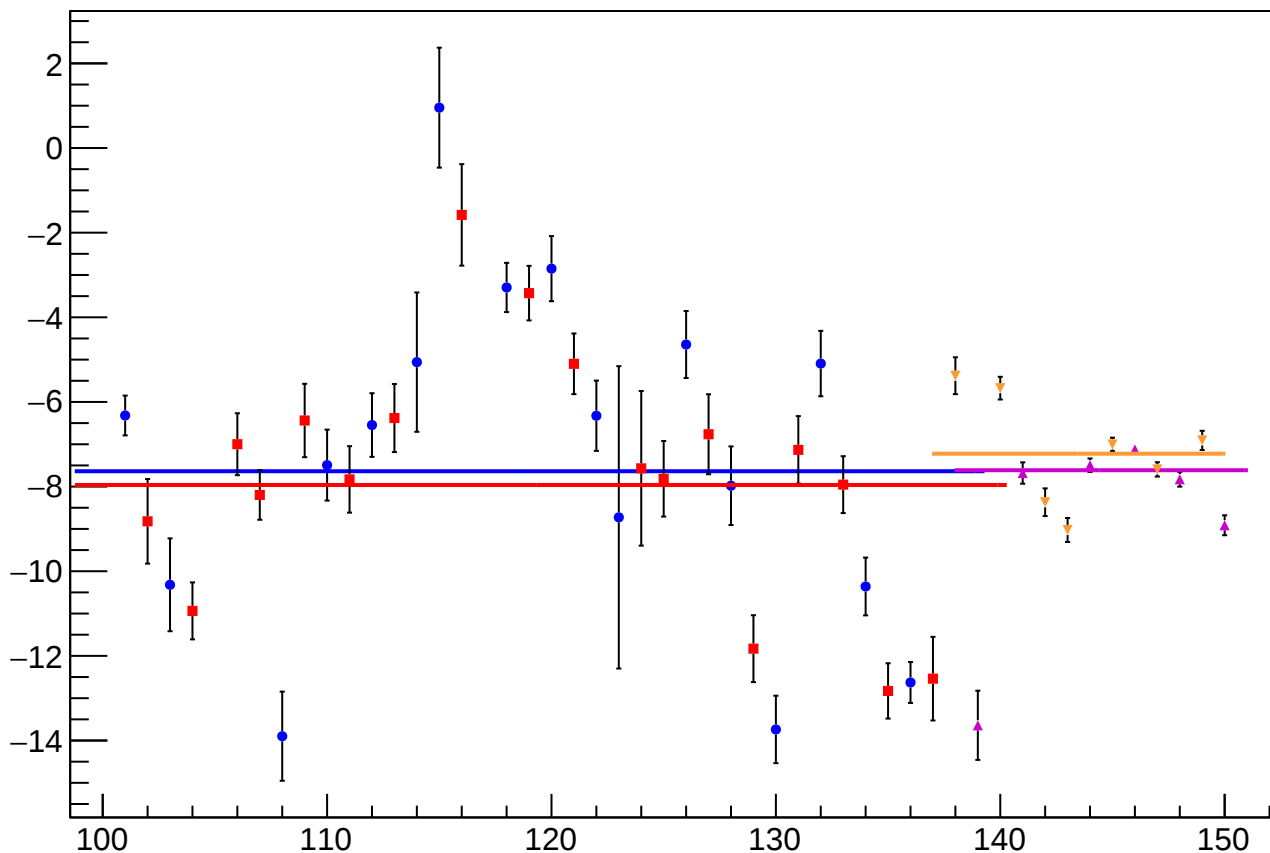
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -24.275+/-0.124  $\chi^2/\text{NDF}$ :2220.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -20.294+/-0.114  $\chi^2/\text{NDF}$ :2772.1/5

Left: -22.118+/-0.084  $\chi^2/\text{NDF}$ : 5554.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -20.294+/-0.114  $\chi^2/\text{NDF}$ :2772.1/5  
 Out: -24.275+/-0.124  $\chi^2/\text{NDF}$ :2220.8/6

All: -22.118+/-0.084  $\chi^2/\text{NDF}$ : 5554.3/12

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:  $-7.223 \pm 0.086$   $\chi^2/\text{NDF}$ : 112.6/6

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

Left In:  $-7.613 \pm 0.074$   $\chi^2/\text{NDF}$ : 104.6/5

Left:  $-7.446 \pm 0.056$   $\chi^2/\text{NDF}$ : 228.9/12

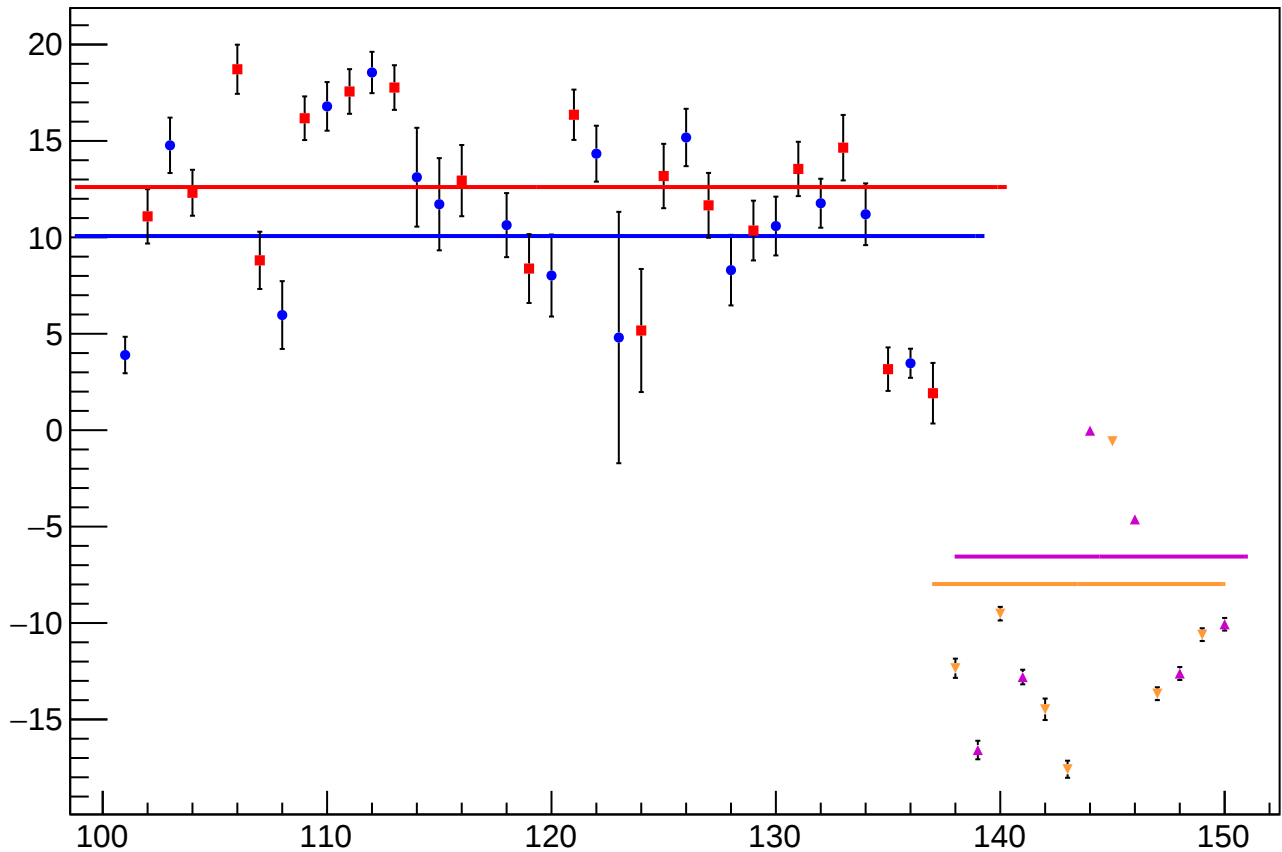
Right:  $-7.800 \pm 0.131$   $\chi^2/\text{NDF}$ : 622.1/34

In:  $-7.616 \pm 0.069$   $\chi^2/\text{NDF}$ : 498.6/22

Out:  $-7.353 \pm 0.078$   $\chi^2/\text{NDF}$ : 352.2/24

All:  $-7.501 \pm 0.052$   $\chi^2/\text{NDF}$ : 857.1/47

reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $10.068 \pm 0.337$   $\chi^2/\text{NDF}$ : 253.6/16

Left Out:  $-7.979 \pm 0.127$   $\chi^2/\text{NDF}$ : 2343.6/6

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}$ : 219.0/17

Left In:  $-6.554 \pm 0.113$   $\chi^2/\text{NDF}$ : 2003.6/5

Left:  $-7.186 \pm 0.085$   $\chi^2/\text{NDF}$ : 4417.2/12

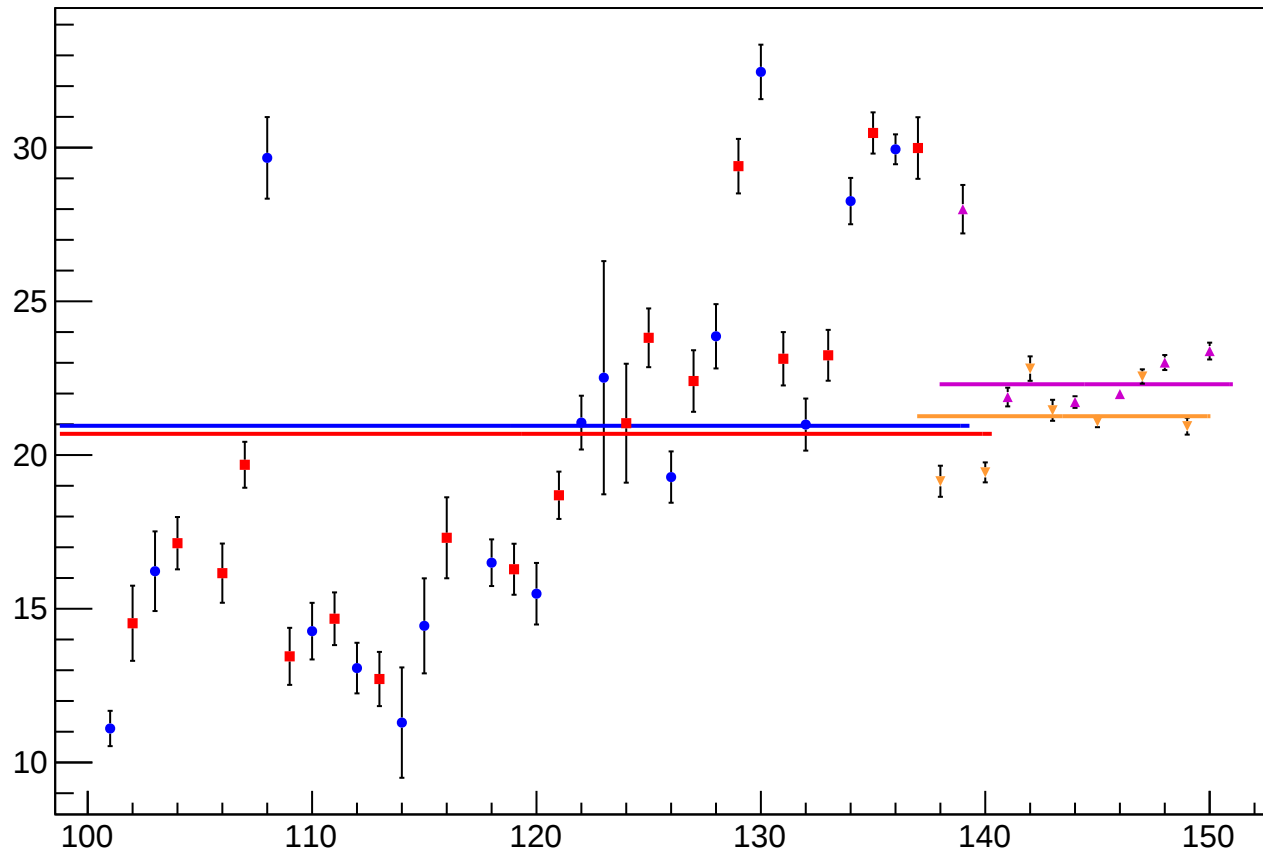
Right:  $11.355 \pm 0.237$   $\chi^2/\text{NDF}$ : 501.3/34

In:  $-4.865 \pm 0.108$   $\chi^2/\text{NDF}$ : 4437.3/22

Out:  $-5.363 \pm 0.119$   $\chi^2/\text{NDF}$ : 5897.2/24

All:  $-5.089 \pm 0.080$   $\chi^2/\text{NDF}$ : 10344.2/47

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: 21.263 $\pm$ 0.106  $\chi^2$ /NDF: 97.5/6

Right Out: 20.690 $\pm$ 0.213  $\chi^2$ /NDF: 726.9/17

Left In: 22.302 $\pm$ 0.093  $\chi^2$ /NDF: 92.1/5

Left: 21.851 $\pm$ 0.070  $\chi^2$ /NDF: 244.3/12

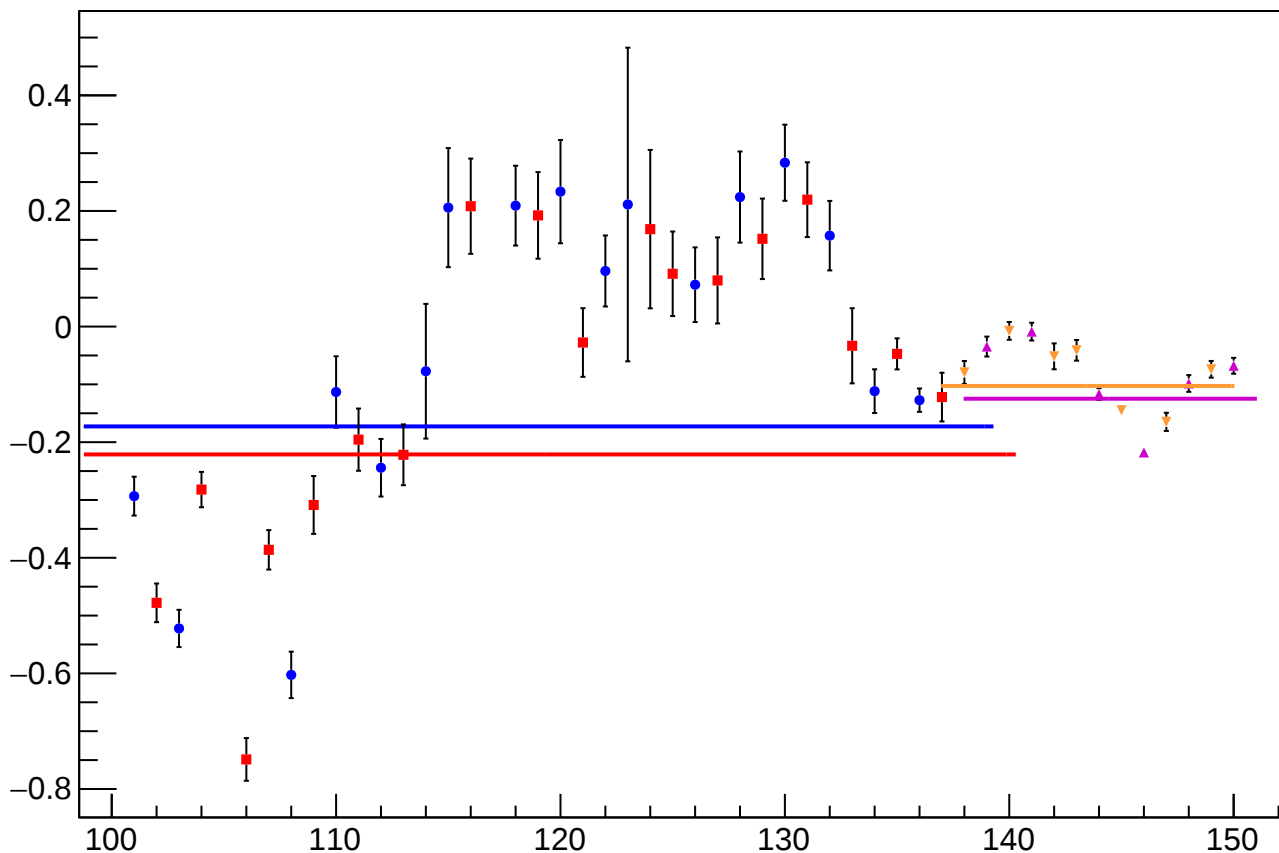
Right: 20.822 $\pm$ 0.149  $\chi^2$ /NDF: 1950.5/34

In: 22.083 $\pm$ 0.085  $\chi^2$ /NDF: 1349.5/22

Out: 21.150 $\pm$ 0.095  $\chi^2$ /NDF: 830.2/24

All: 21.668 $\pm$ 0.063  $\chi^2$ /NDF: 2233.7/47

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:  $-0.103 \pm 0.005$   $\chi^2/\text{NDF}$ : 103.4/6

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}$ : 535.1/17

Left In:  $-0.125 \pm 0.005$   $\chi^2/\text{NDF}$ : 226.9/5

Left:  $-0.115 \pm 0.004$   $\chi^2/\text{NDF}$ : 339.7/12

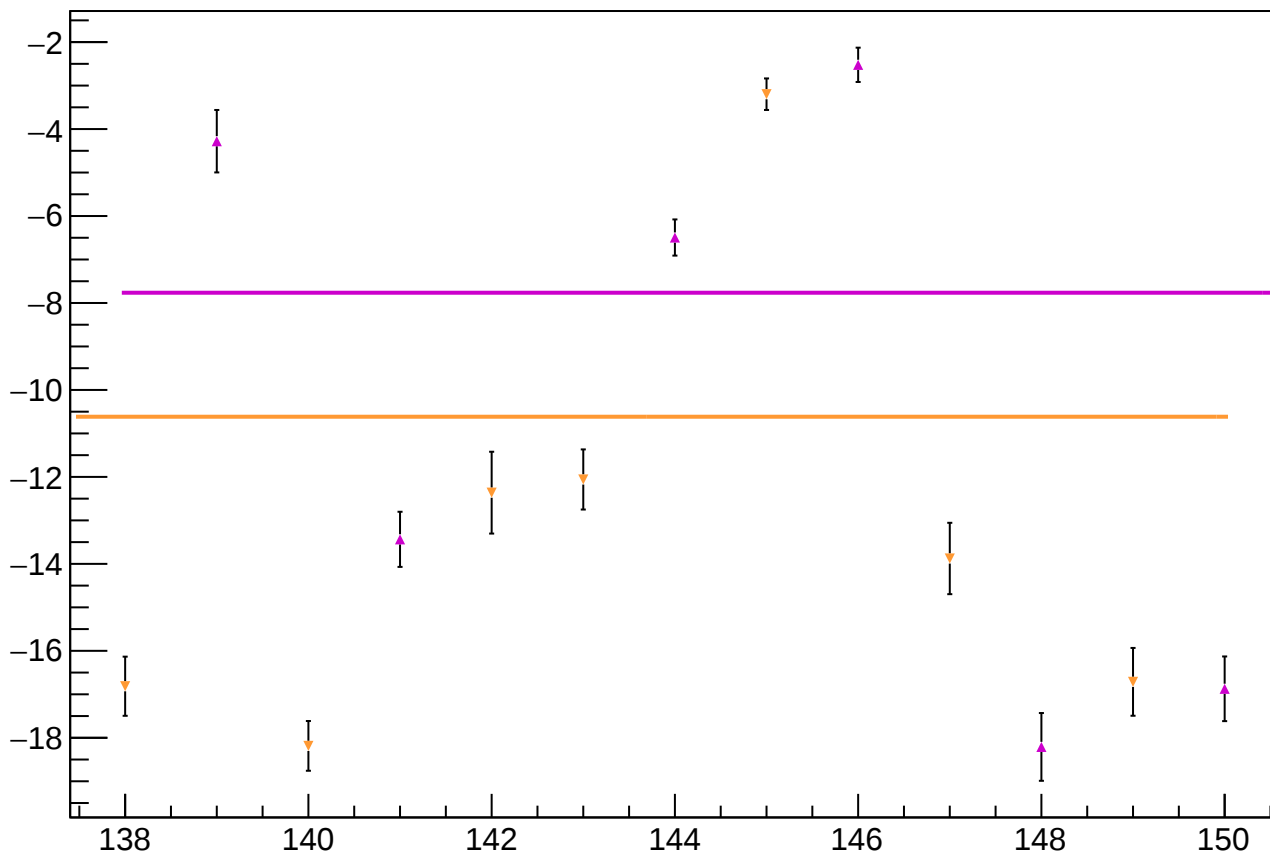
Right:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 1005.0/34

In:  $-0.133 \pm 0.005$   $\chi^2/\text{NDF}$ : 702.6/22

Out:  $-0.125 \pm 0.005$   $\chi^2/\text{NDF}$ : 733.3/24

All:  $-0.129 \pm 0.003$   $\chi^2/\text{NDF}$ : 1437.3/47

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -10.616+/-0.228  $\chi^2/\text{NDF}$ : 761.2/6

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

Left In: -7.764+/-0.223  $\chi^2/\text{NDF}$ : 619.2/5

Left: -9.157+/-0.160  $\chi^2/\text{NDF}$ : 1460.2/12

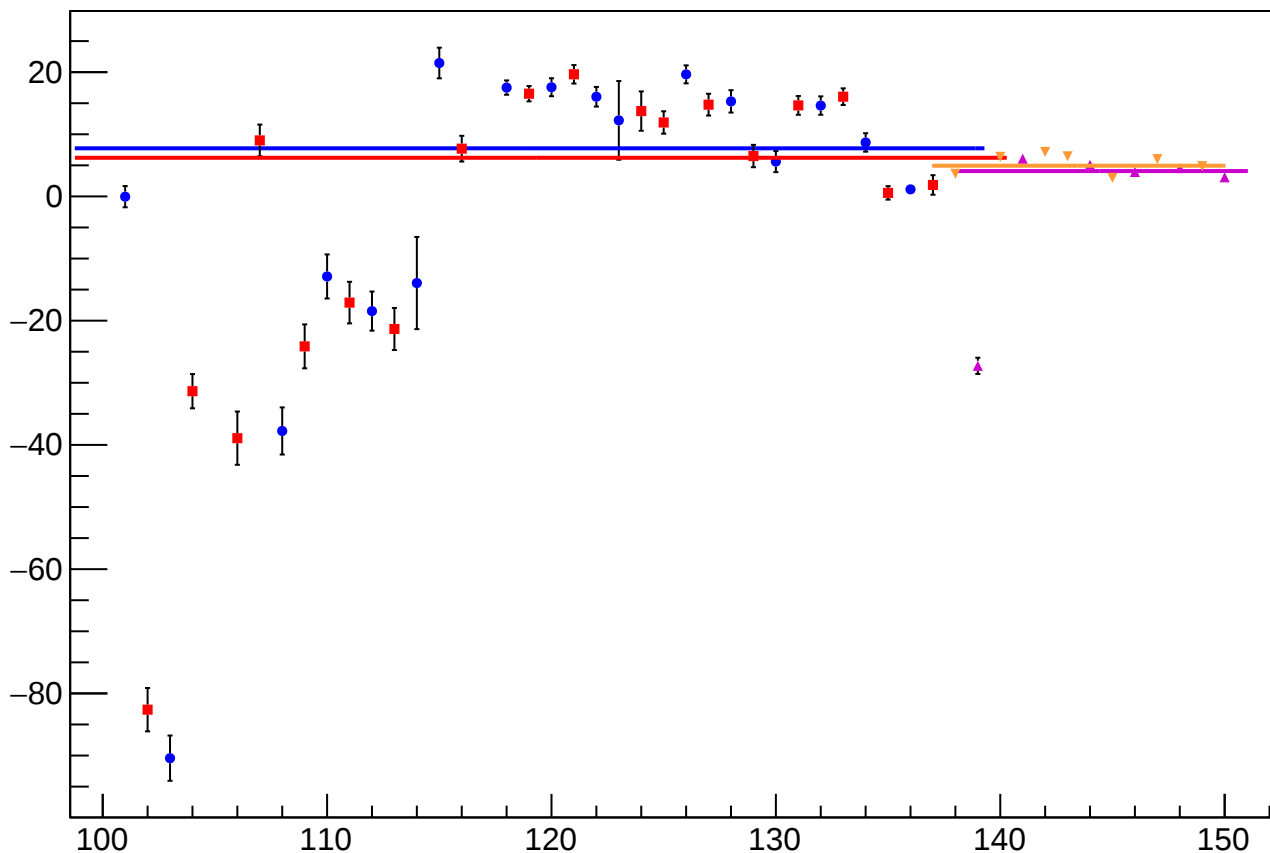
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -7.764+/-0.223  $\chi^2/\text{NDF}$ : 619.2/5

Out: -10.616+/-0.228  $\chi^2/\text{NDF}$ : 761.2/6

All: -9.157+/-0.160  $\chi^2/\text{NDF}$ : 1460.2/12

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:  $4.940 \pm 0.164$   $\chi^2/\text{NDF}: 91.1/6$

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}: 1445.9/17$

Left In:  $4.081 \pm 0.151$   $\chi^2/\text{NDF}: 612.3/5$

Left:  $4.475 \pm 0.111$   $\chi^2/\text{NDF}: 718.2/12$

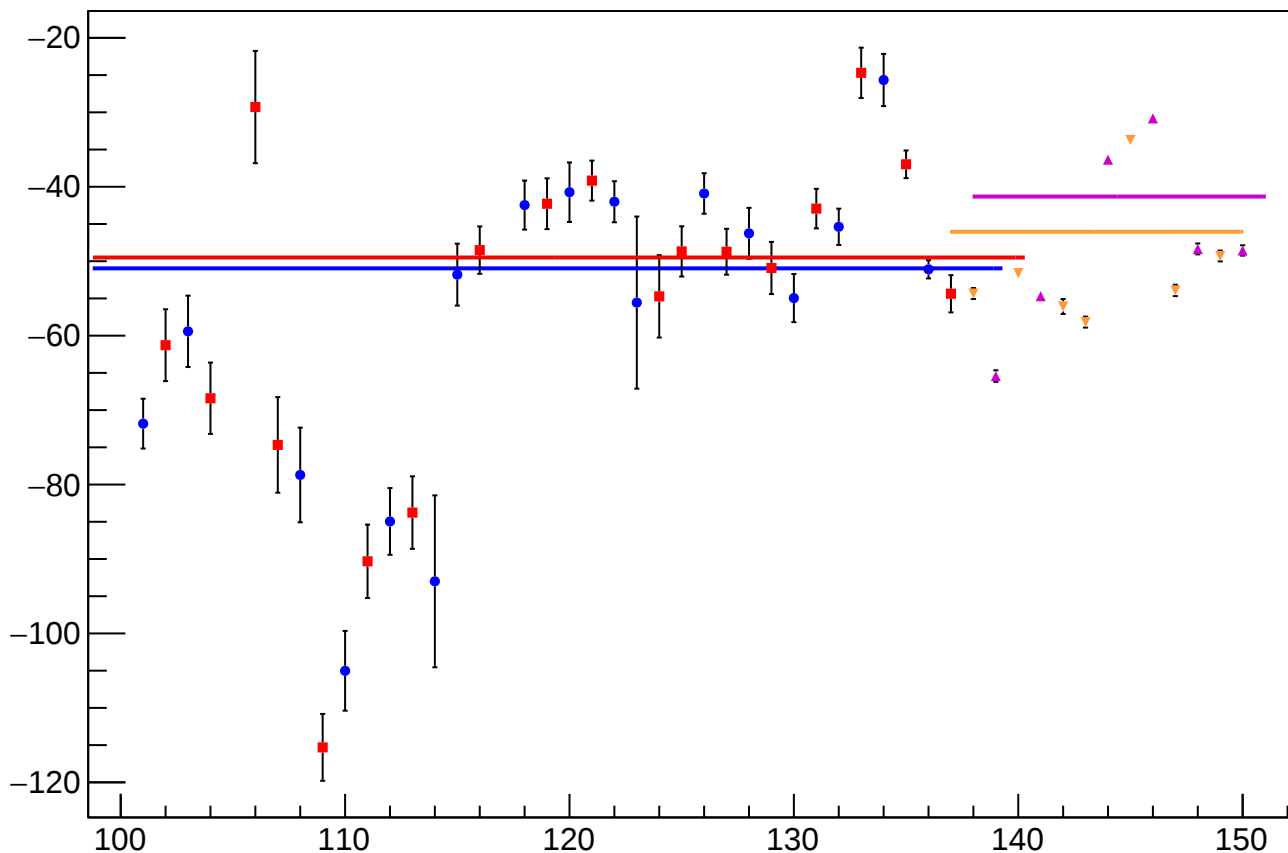
Right:  $7.037 \pm 0.295$   $\chi^2/\text{NDF}: 2811.4/34$

In:  $4.534 \pm 0.142$   $\chi^2/\text{NDF}: 2043.5/22$

Out:  $5.101 \pm 0.154$   $\chi^2/\text{NDF}: 1544.6/24$

All:  $4.794 \pm 0.104$   $\chi^2/\text{NDF}: 3595.5/47$

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:  $-46.041 \pm 0.238$   $\chi^2/\text{NDF}$ : 1717.6/6

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

Left In:  $-41.315 \pm 0.225$   $\chi^2/\text{NDF}$ : 2447.0/5

Left:  $-43.542 \pm 0.164$   $\chi^2/\text{NDF}$ : 4372.5/12

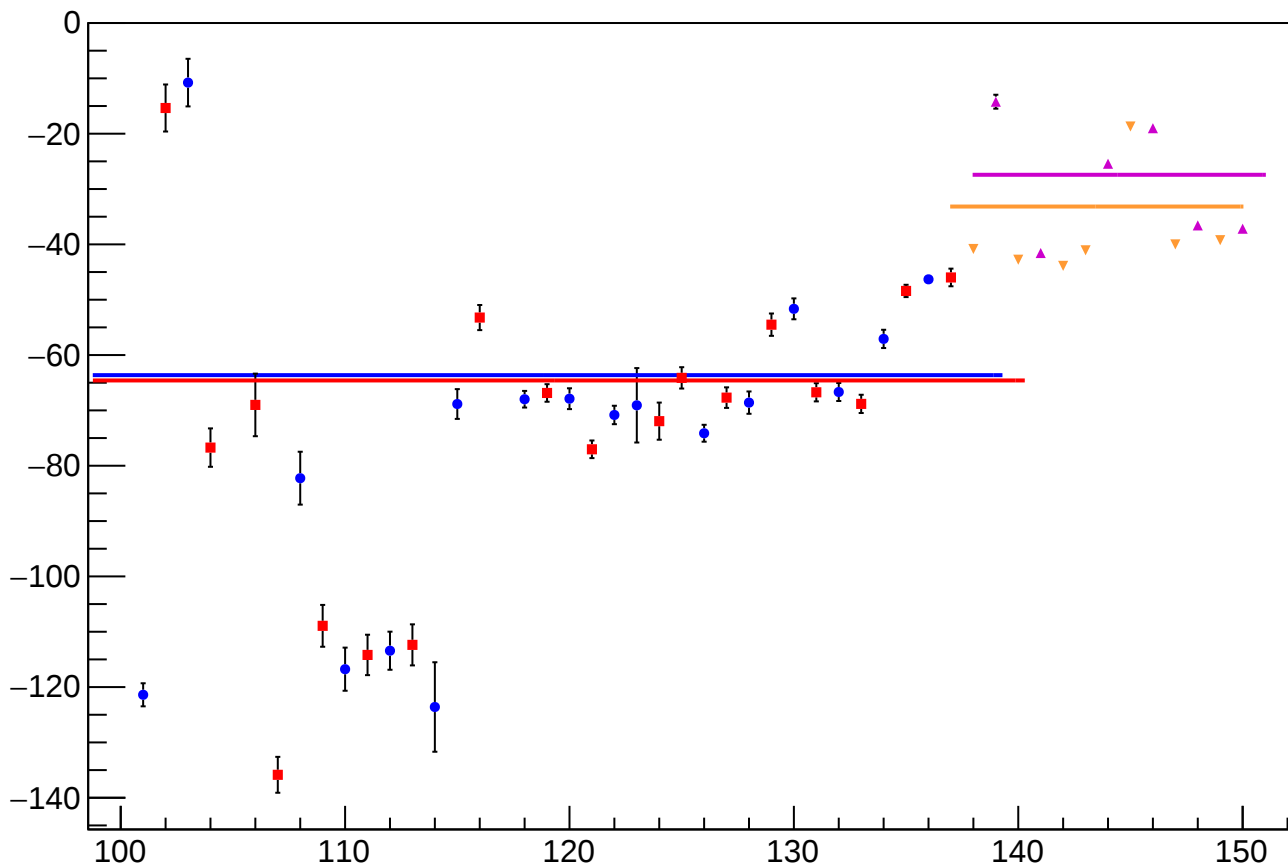
Right:  $-50.287 \pm 0.542$   $\chi^2/\text{NDF}$ : 840.1/34

In:  $-42.134 \pm 0.215$   $\chi^2/\text{NDF}$ : 2935.0/22

Out:  $-46.324 \pm 0.228$   $\chi^2/\text{NDF}$ : 2241.2/24

All:  $-44.105 \pm 0.157$   $\chi^2/\text{NDF}$ : 5354.6/47

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:  $-33.163 \pm 0.199$   $\chi^2/\text{NDF}$ : 2952.2/6

Right Out:  $-64.590 \pm 0.482$   $\chi^2/\text{NDF}$ : 1594.3/17

Left In:  $-27.425 \pm 0.187$   $\chi^2/\text{NDF}$ : 2116.0/5

Left:  $-30.105 \pm 0.136$   $\chi^2/\text{NDF}$ : 5509.7/12

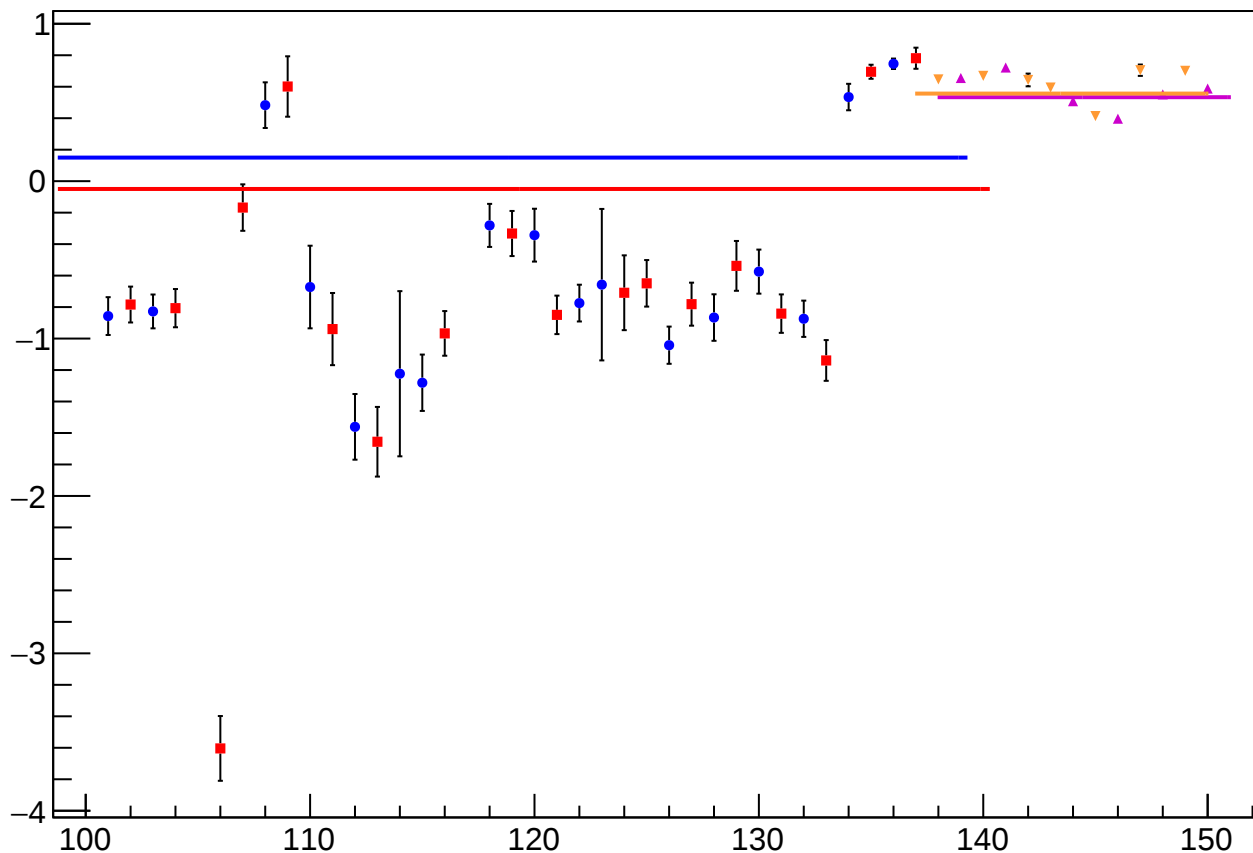
Right:  $-64.073 \pm 0.327$   $\chi^2/\text{NDF}$ : 3607.7/34

In:  $-32.823 \pm 0.172$   $\chi^2/\text{NDF}$ : 9738.7/22

Out:  $-37.752 \pm 0.184$   $\chi^2/\text{NDF}$ : 8174.3/24

All:  $-35.120 \pm 0.126$   $\chi^2/\text{NDF}$ : 18295.2/47

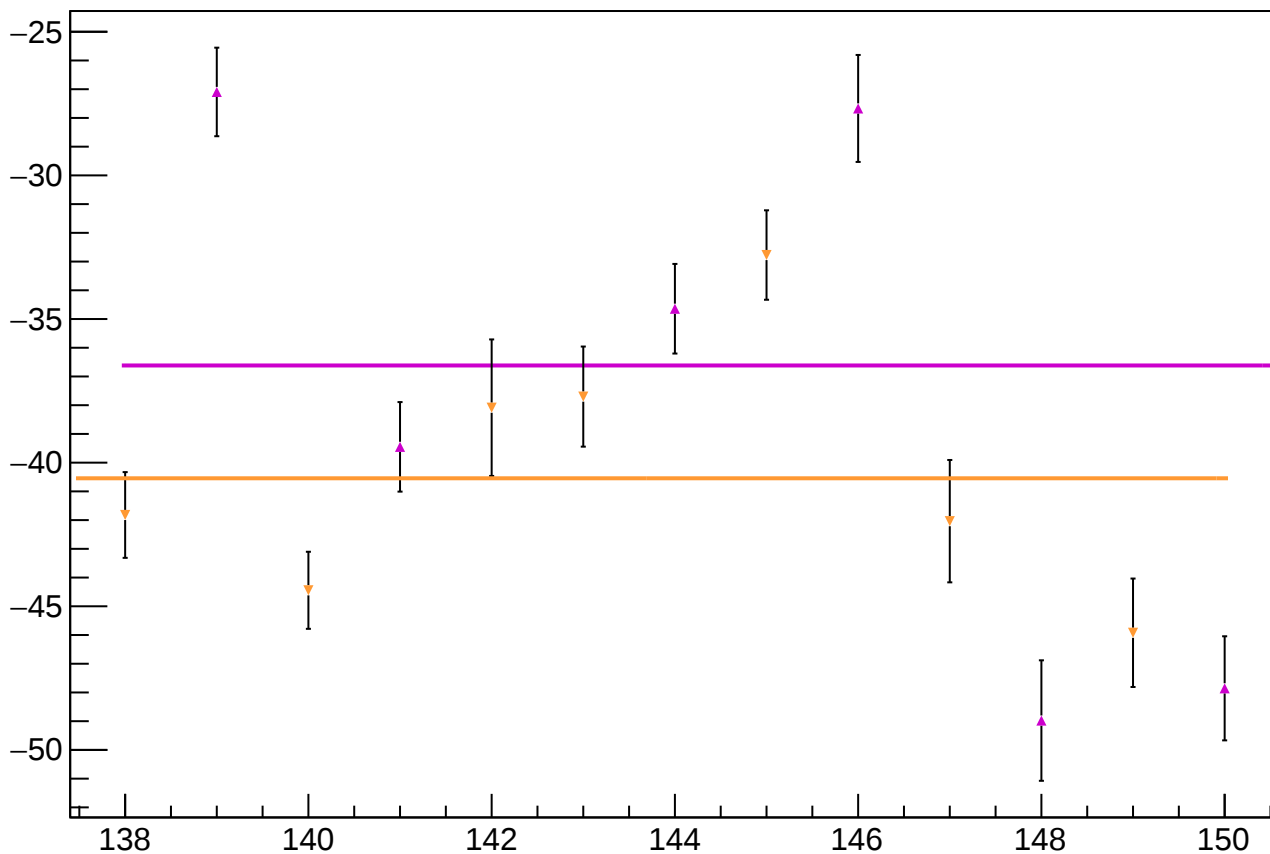
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.2/16  
 Left Out:  $0.556 \pm 0.010$   $\chi^2/\text{NDF}$ : 159.8/6  
 Right Out:  $-0.050 \pm 0.026$   $\chi^2/\text{NDF}$ : 1154.0/17  
 Left In:  $0.534 \pm 0.010$   $\chi^2/\text{NDF}$ : 131.5/5

Left:  $0.545 \pm 0.007$   $\chi^2/\text{NDF}$ : 294.0/12  
 Right:  $0.059 \pm 0.018$   $\chi^2/\text{NDF}$ : 2174.6/34  
 In:  $0.480 \pm 0.009$   $\chi^2/\text{NDF}$ : 1340.8/22  
 Out:  $0.482 \pm 0.009$   $\chi^2/\text{NDF}$ : 1782.2/24  
 All:  $0.481 \pm 0.006$   $\chi^2/\text{NDF}$ : 3123.0/47

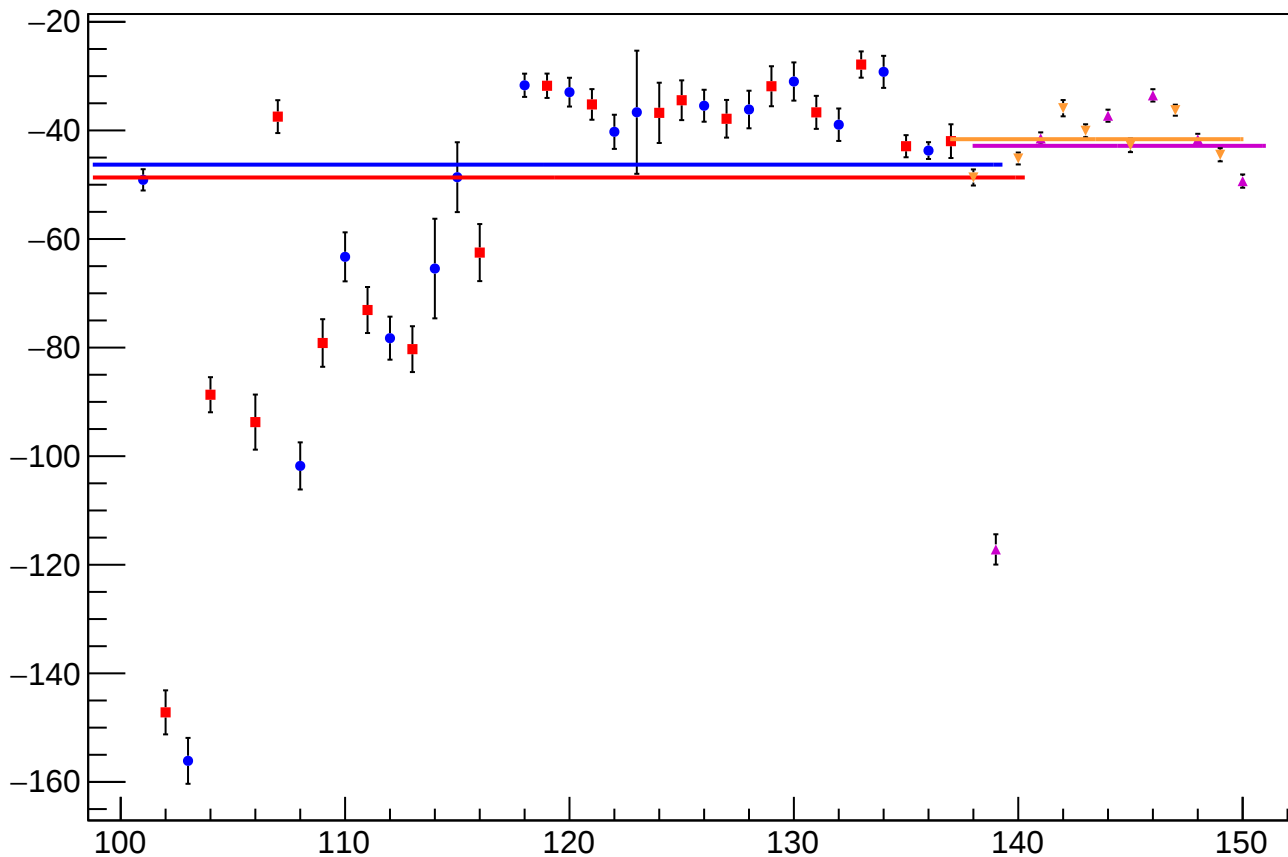
reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.544+/-0.642  $\chi^2/\text{NDF}$ : 46.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -36.617+/-0.696  $\chi^2/\text{NDF}$ : 139.4/5

Left: -38.738+/-0.472  $\chi^2/\text{NDF}$ : 203.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -36.617+/-0.696  $\chi^2/\text{NDF}$ : 139.4/5  
 Out: -40.544+/-0.642  $\chi^2/\text{NDF}$ : 46.4/6  
 All: -38.738+/-0.472  $\chi^2/\text{NDF}$ : 203.0/12

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:  $-41.613 \pm 0.461$   $\chi^2/\text{NDF}$ : 83.3/6

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}$ : 1212.3/17

Left In:  $-42.837 \pm 0.492$   $\chi^2/\text{NDF}$ : 831.5/5

Left:  $-42.185 \pm 0.336$   $\chi^2/\text{NDF}$ : 918.1/12

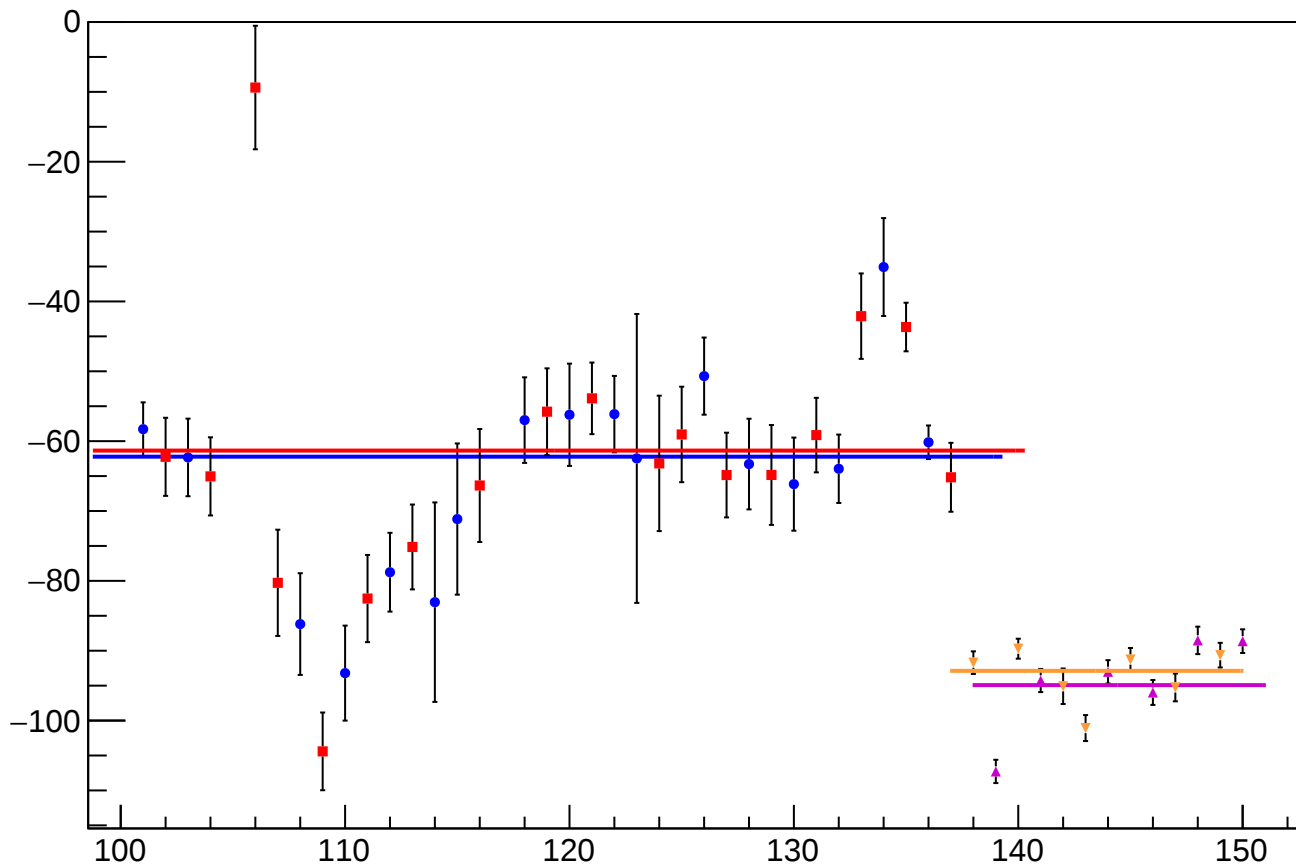
Right:  $-47.420 \pm 0.525$   $\chi^2/\text{NDF}$ : 2301.3/34

In:  $-43.932 \pm 0.407$   $\chi^2/\text{NDF}$ : 1931.2/22

Out:  $-43.498 \pm 0.395$   $\chi^2/\text{NDF}$ : 1358.1/24

All:  $-43.708 \pm 0.283$   $\chi^2/\text{NDF}$ : 3289.8/47

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:  $-92.881 \pm 0.666$   $\chi^2/\text{NDF}$ : 29.6/6

Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}$ : 158.4/17

Left In:  $-94.925 \pm 0.706$   $\chi^2/\text{NDF}$ : 81.1/5

Left:  $-93.843 \pm 0.485$   $\chi^2/\text{NDF}$ : 115.2/12

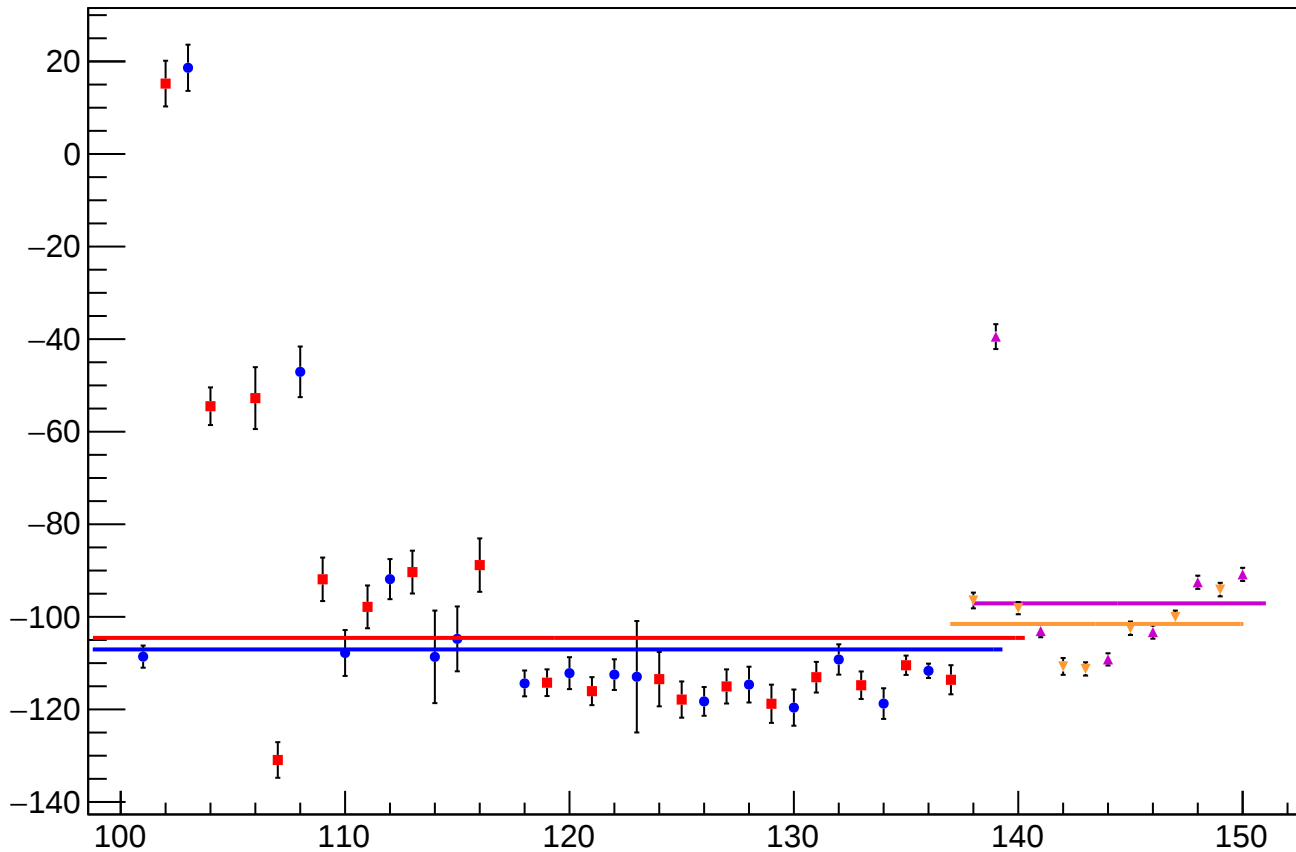
Right:  $-61.809 \pm 0.952$   $\chi^2/\text{NDF}$ : 225.9/34

In:  $-87.571 \pm 0.622$   $\chi^2/\text{NDF}$ : 630.3/22

Out:  $-86.946 \pm 0.600$   $\chi^2/\text{NDF}$ : 610.1/24

All:  $-87.247 \pm 0.432$   $\chi^2/\text{NDF}$ : 1240.9/47

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:  $-101.535 \pm 0.563$   $\chi^2/\text{NDF}$ : 114.0/6

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

Left In:  $-97.087 \pm 0.604$   $\chi^2/\text{NDF}$ : 611.8/5

Left:  $-99.465 \pm 0.412$   $\chi^2/\text{NDF}$ : 754.8/12

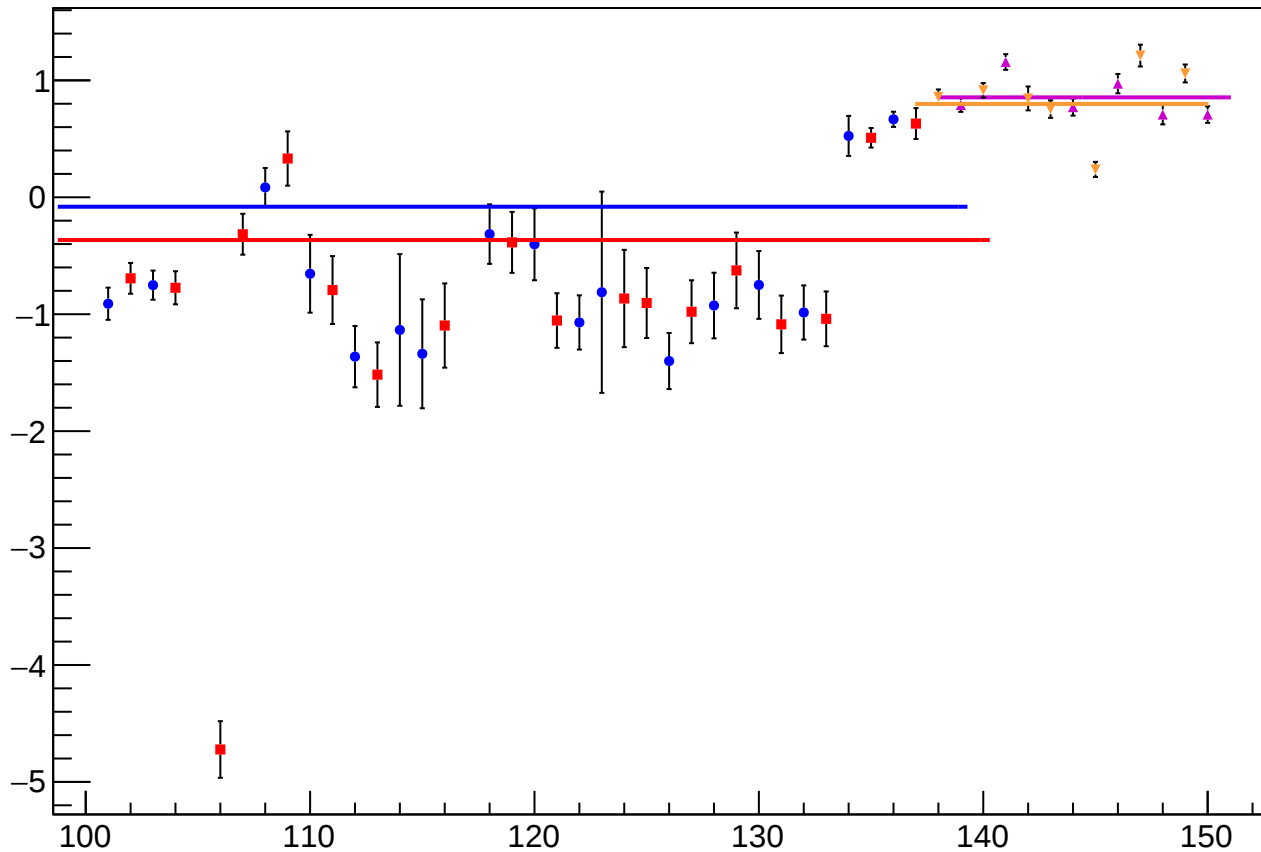
Right:  $-105.867 \pm 0.591$   $\chi^2/\text{NDF}$ : 1799.7/34

In:  $-100.628 \pm 0.484$   $\chi^2/\text{NDF}$ : 1536.4/22

Out:  $-102.438 \pm 0.471$   $\chi^2/\text{NDF}$ : 1090.0/24

All:  $-101.558 \pm 0.338$   $\chi^2/\text{NDF}$ : 2633.5/47

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:  $0.798 \pm 0.028$   $\chi^2/\text{NDF}$ : 110.8/6

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

Left In:  $0.855 \pm 0.029$   $\chi^2/\text{NDF}$ : 32.3/5

Left:  $0.825 \pm 0.020$   $\chi^2/\text{NDF}$ : 145.1/12

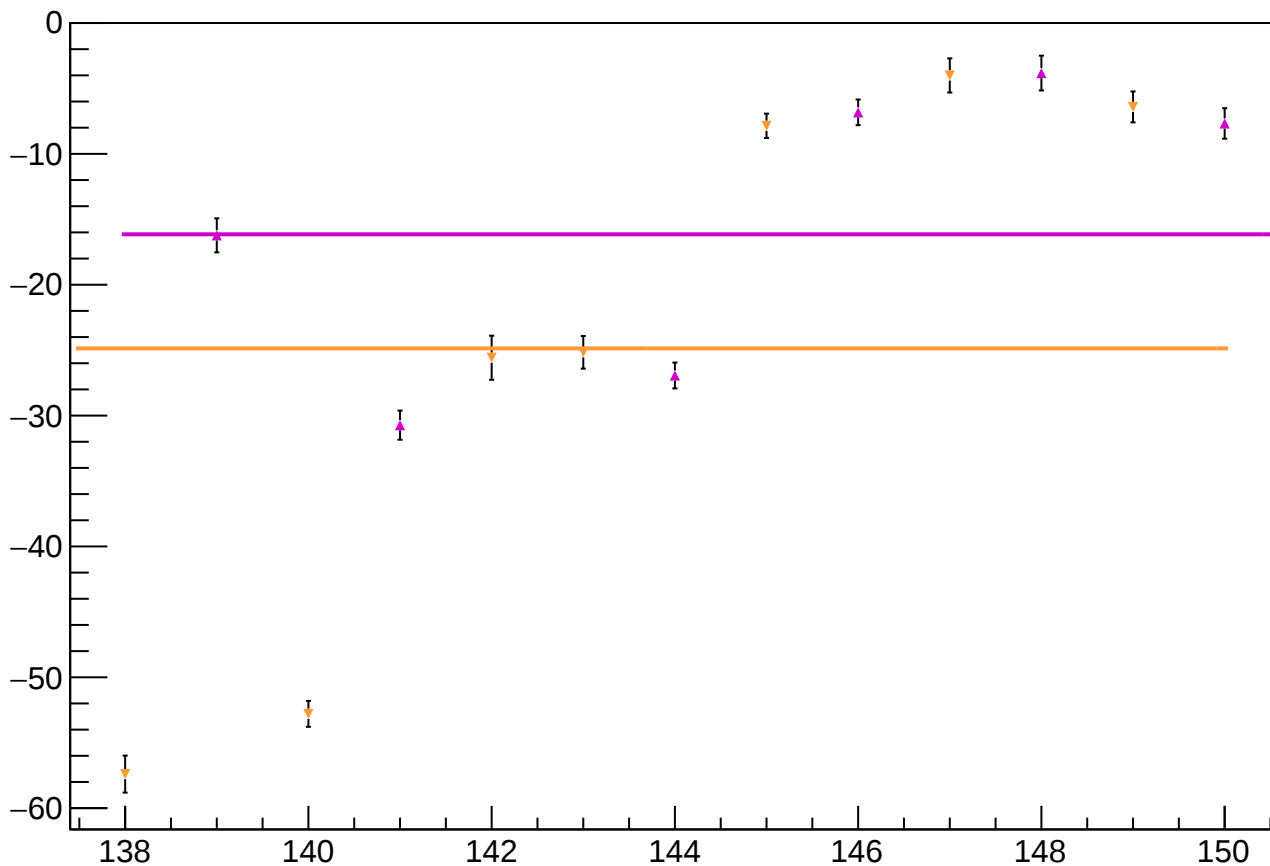
Right:  $-0.217 \pm 0.030$   $\chi^2/\text{NDF}$ : 923.5/34

In:  $0.554 \pm 0.024$   $\chi^2/\text{NDF}$ : 694.7/22

Out:  $0.468 \pm 0.023$   $\chi^2/\text{NDF}$ : 1184.5/24

All:  $0.510 \pm 0.017$   $\chi^2/\text{NDF}$ : 1885.8/47

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



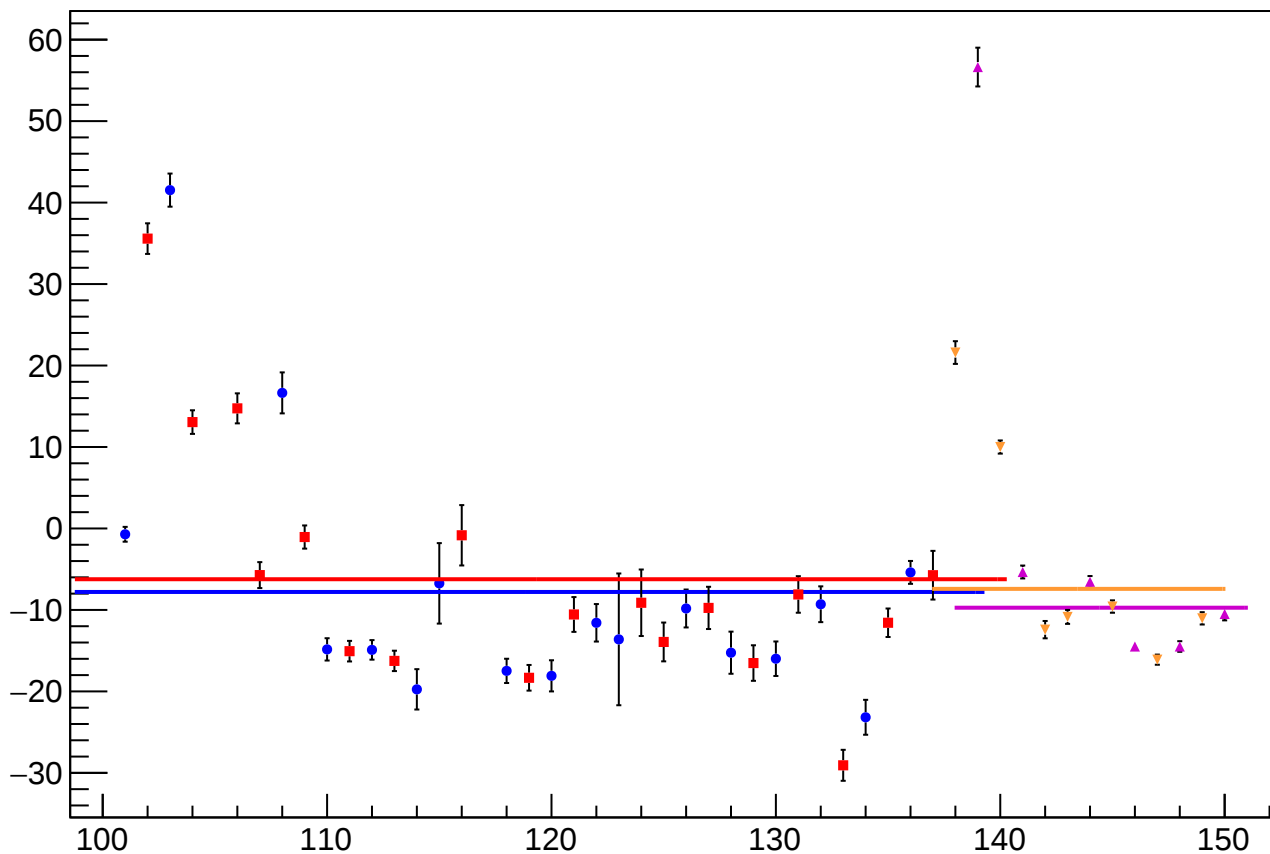
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -24.865+/-0.448  $\chi^2/\text{NDF}$ :2159.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -16.147+/-0.458  $\chi^2/\text{NDF}$ :520.3/5

Left: -20.600+/-0.320  $\chi^2/\text{NDF}$ : 2865.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.147+/-0.458  $\chi^2/\text{NDF}$ :520.3/5  
 Out: -24.865+/-0.448  $\chi^2/\text{NDF}$ :2159.6/6

All: -20.600+/-0.320  $\chi^2/\text{NDF}$ : 2865.0/12

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:  $-7.415 \pm 0.311$   $\chi^2/\text{NDF}$ : 1161.1/6

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

Left In:  $-9.727 \pm 0.310$   $\chi^2/\text{NDF}$ : 942.7/5

Left:  $-8.574 \pm 0.220$   $\chi^2/\text{NDF}$ : 2131.6/12

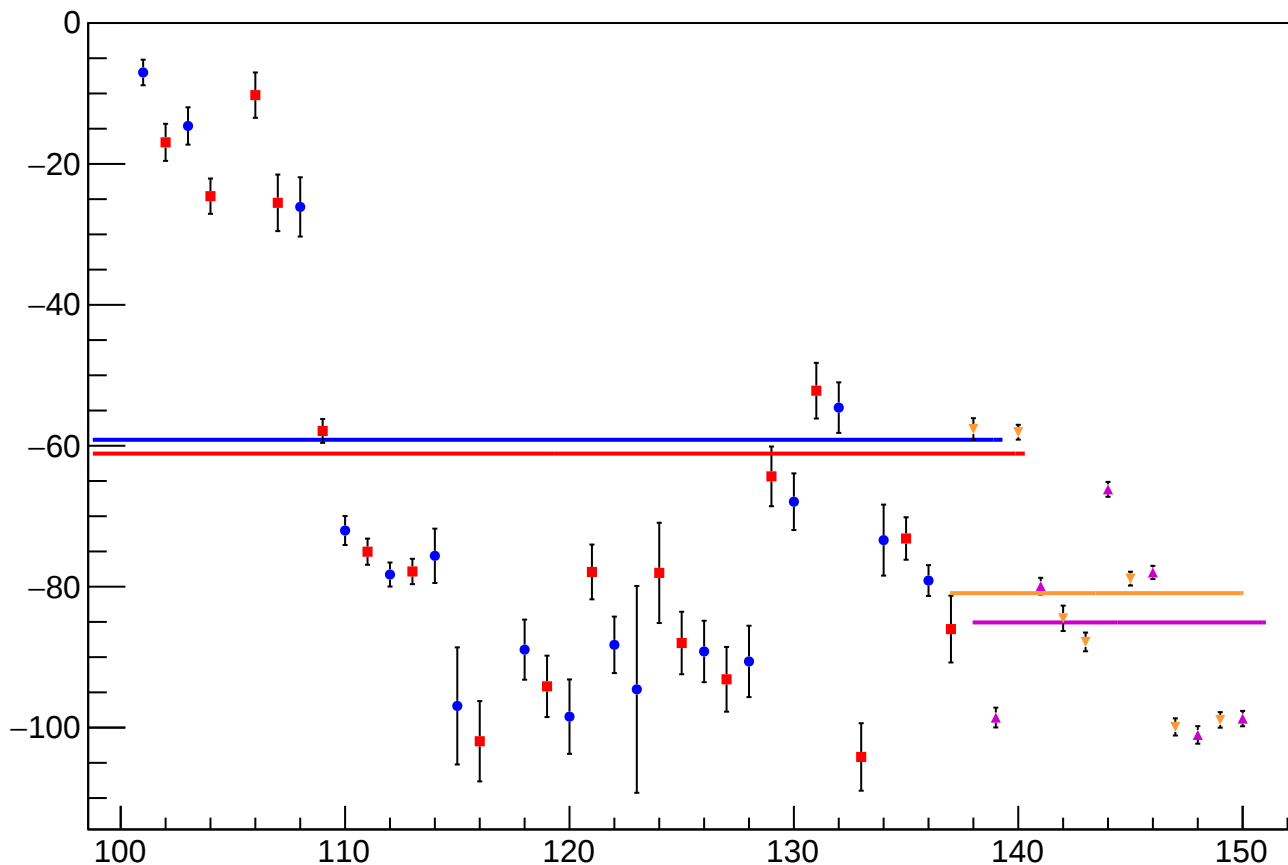
Right:  $-7.016 \pm 0.303$   $\chi^2/\text{NDF}$ : 2172.3/34

In:  $-9.062 \pm 0.251$   $\chi^2/\text{NDF}$ : 1938.8/22

Out:  $-7.008 \pm 0.252$   $\chi^2/\text{NDF}$ : 2349.0/24

All:  $-8.038 \pm 0.178$   $\chi^2/\text{NDF}$ : 4321.2/47

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:  $-80.917 \pm 0.460$   $\chi^2/\text{NDF}$ : 1243.7/6

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

Left In:  $-85.074 \pm 0.460$   $\chi^2/\text{NDF}$ : 807.6/5

Left:  $-82.996 \pm 0.325$   $\chi^2/\text{NDF}$ : 2092.2/12

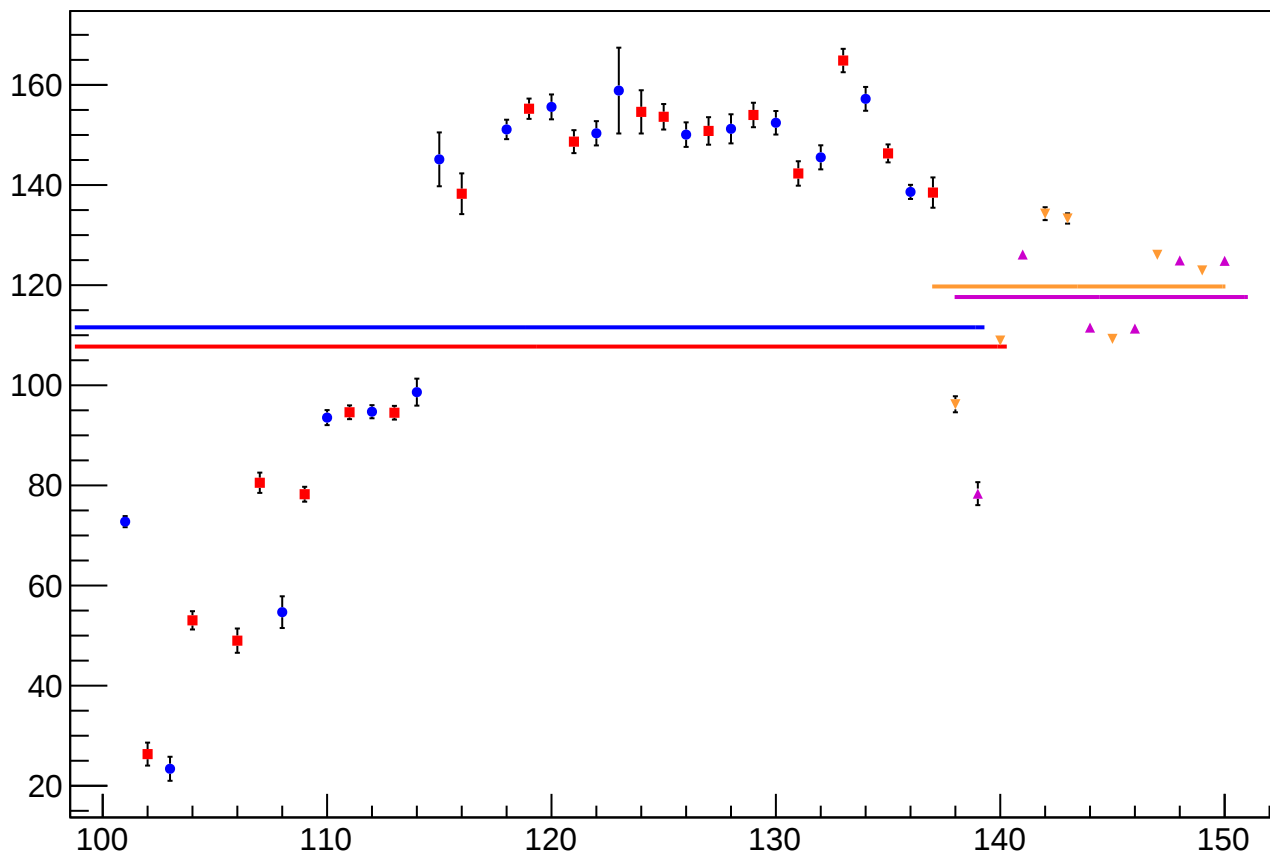
Right:  $-60.182 \pm 0.513$   $\chi^2/\text{NDF}$ : 3039.8/34

In:  $-77.924 \pm 0.391$   $\chi^2/\text{NDF}$ : 3402.3/22

Out:  $-75.035 \pm 0.386$   $\chi^2/\text{NDF}$ : 3112.0/24

All:  $-76.458 \pm 0.275$   $\chi^2/\text{NDF}$ : 6541.9/47

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 111.580 $\pm$ 0.487  $\chi^2$ /NDF: 5946.0/16

Left Out: 119.738 $\pm$ 0.382  $\chi^2$ /NDF:849.7/6

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

Left In: 117.632 $\pm$ 0.383  $\chi^2$ /NDF:620.6/5

Left: 118.686 $\pm$ 0.270  $\chi^2$ /NDF: 1485.5/12

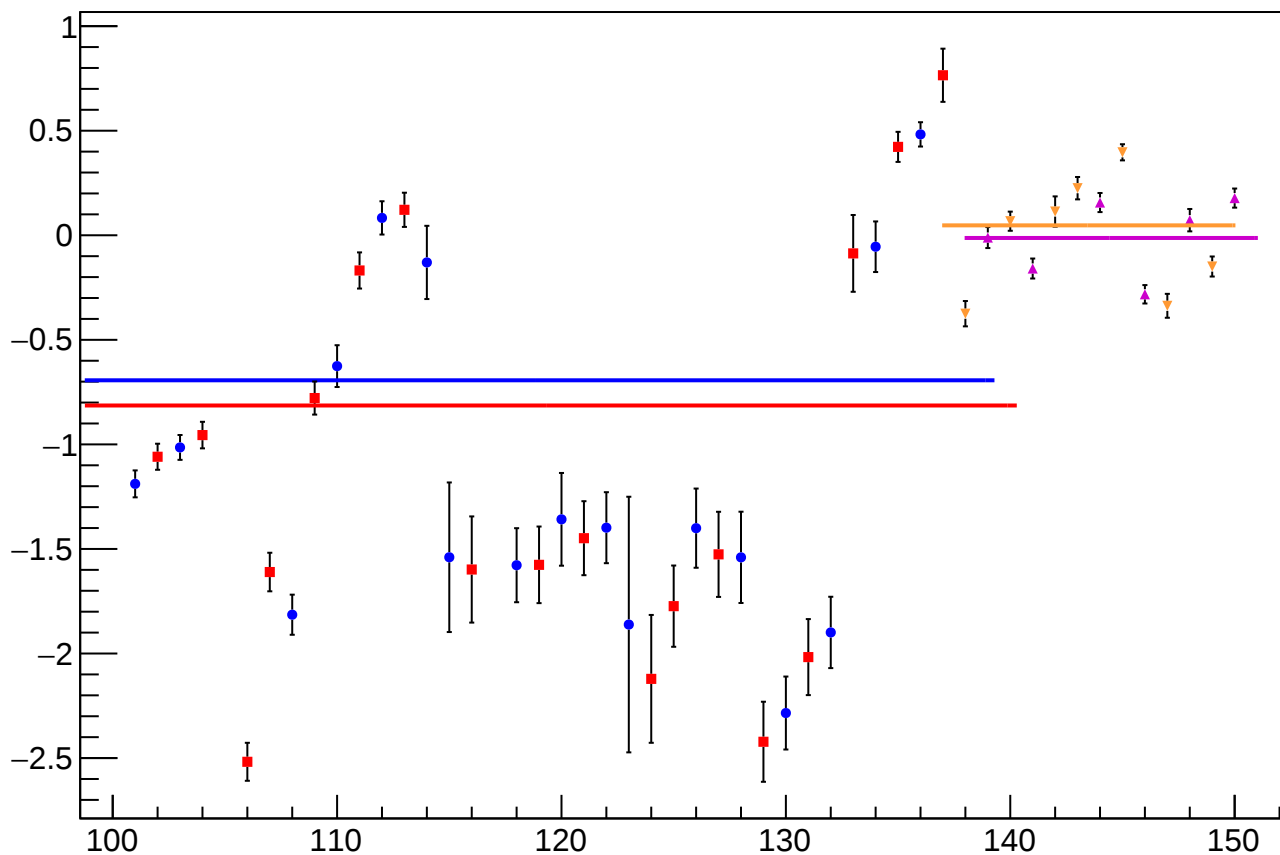
Right: 109.661 $\pm$ 0.345  $\chi^2$ /NDF: 12813.2/34

In: 115.326 $\pm$ 0.301  $\chi^2$ /NDF:6661.9/22

Out: 115.184 $\pm$ 0.301  $\chi^2$ /NDF:8060.5/24

All: 115.255 $\pm$ 0.213  $\chi^2$ /NDF: 14722.5/47

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:  $0.047 \pm 0.019$   $\chi^2/\text{NDF}$ : 204.6/6

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

Left In:  $-0.013 \pm 0.019$   $\chi^2/\text{NDF}$ : 80.5/5

Left:  $0.017 \pm 0.014$   $\chi^2/\text{NDF}$ : 290.1/12

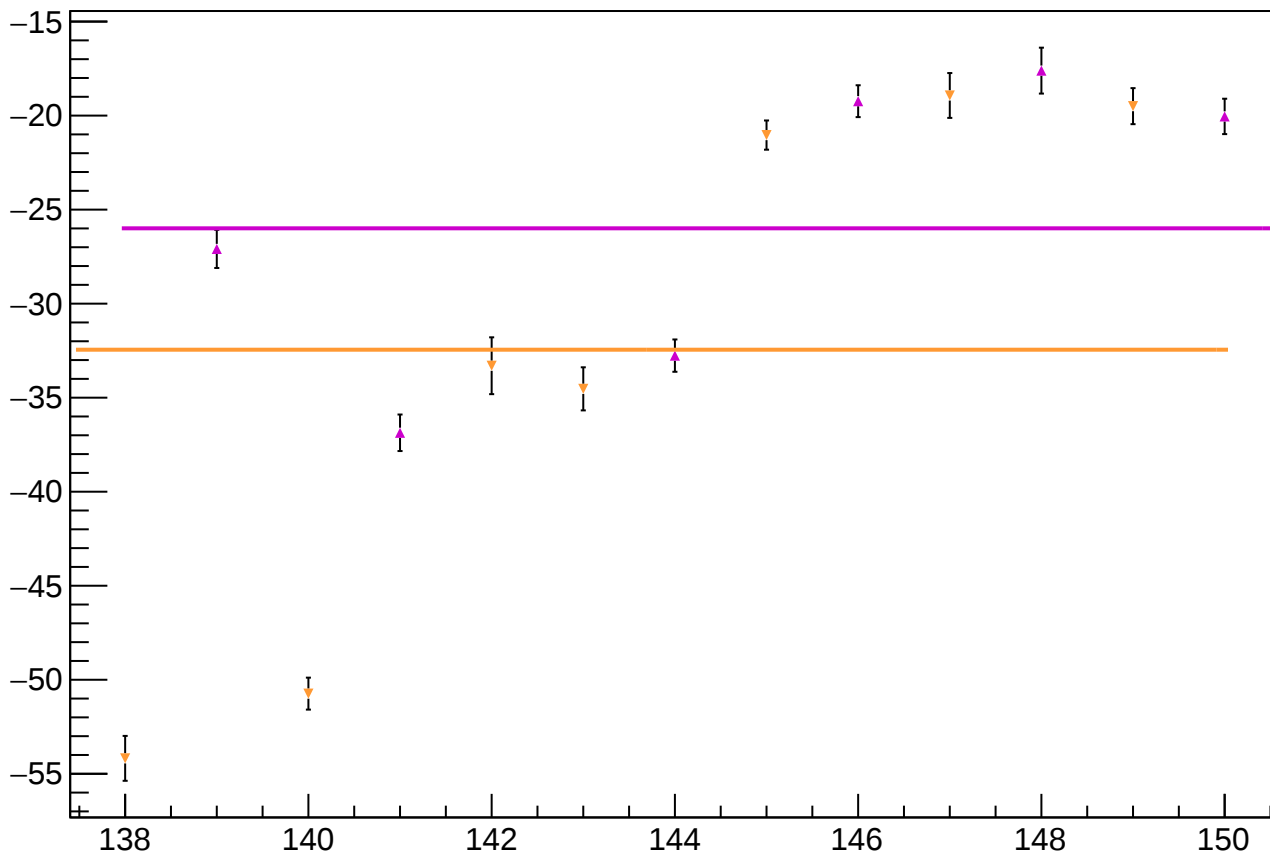
Right:  $-0.757 \pm 0.018$   $\chi^2/\text{NDF}$ : 2310.9/34

In:  $-0.258 \pm 0.016$   $\chi^2/\text{NDF}$ : 1515.9/22

Out:  $-0.282 \pm 0.015$   $\chi^2/\text{NDF}$ : 2278.7/24

All:  $-0.270 \pm 0.011$   $\chi^2/\text{NDF}$ : 3795.7/47

reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



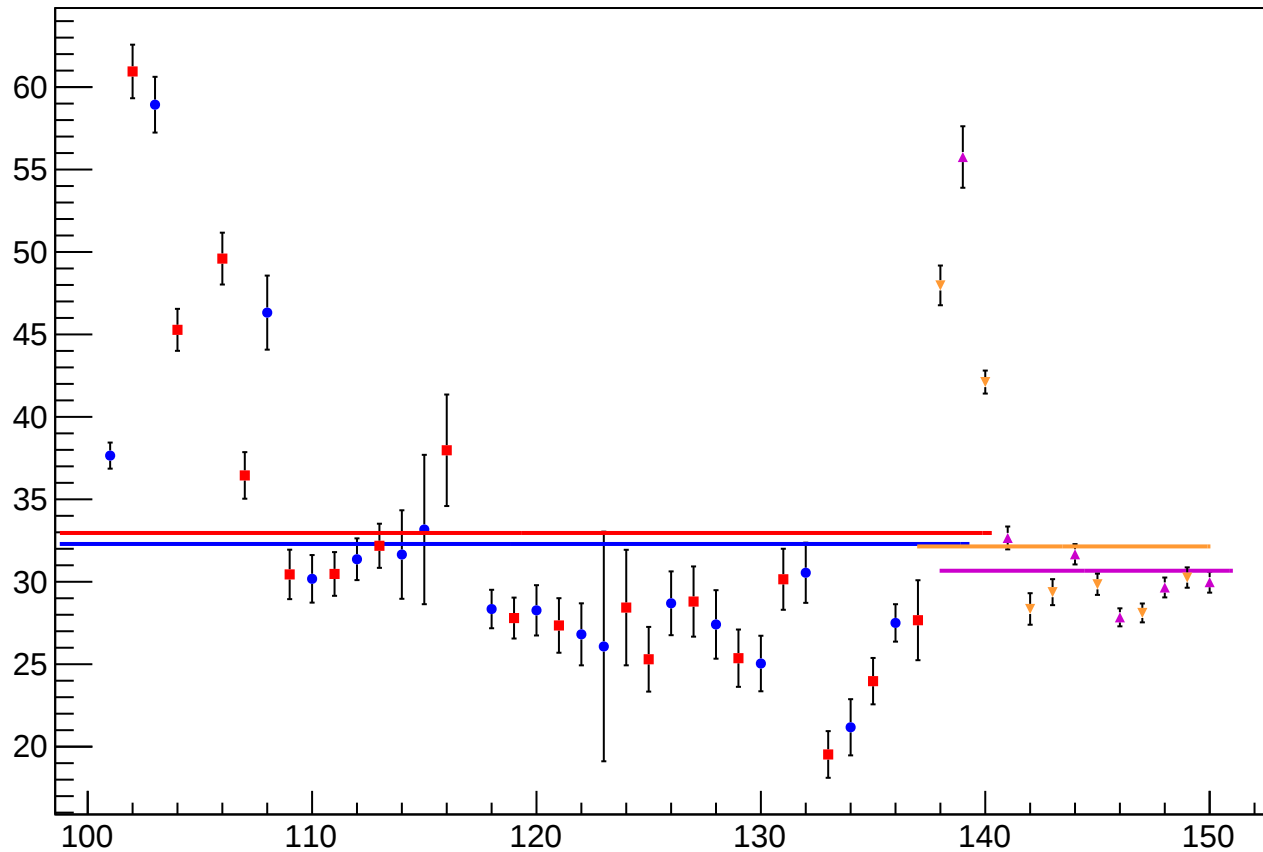
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.449+/-0.385  $\chi^2/\text{NDF}$ :1325.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -25.994+/-0.390  $\chi^2/\text{NDF}$ :339.6/5

Left: -29.259+/-0.274  $\chi^2/\text{NDF}$ : 1803.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -25.994+/-0.390  $\chi^2/\text{NDF}$ :339.6/5  
 Out: -32.449+/-0.385  $\chi^2/\text{NDF}$ :1325.2/6

All: -29.259+/-0.274  $\chi^2/\text{NDF}$ : 1803.5/12

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $32.293 \pm 0.373$   $\chi^2/\text{NDF}: 452.5/16$

Left Out:  $32.144 \pm 0.272$   $\chi^2/\text{NDF}: 476.9/6$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

Left In:  $30.670 \pm 0.271$   $\chi^2/\text{NDF}: 222.6/5$

Left:  $31.405 \pm 0.192$   $\chi^2/\text{NDF}: 714.2/12$

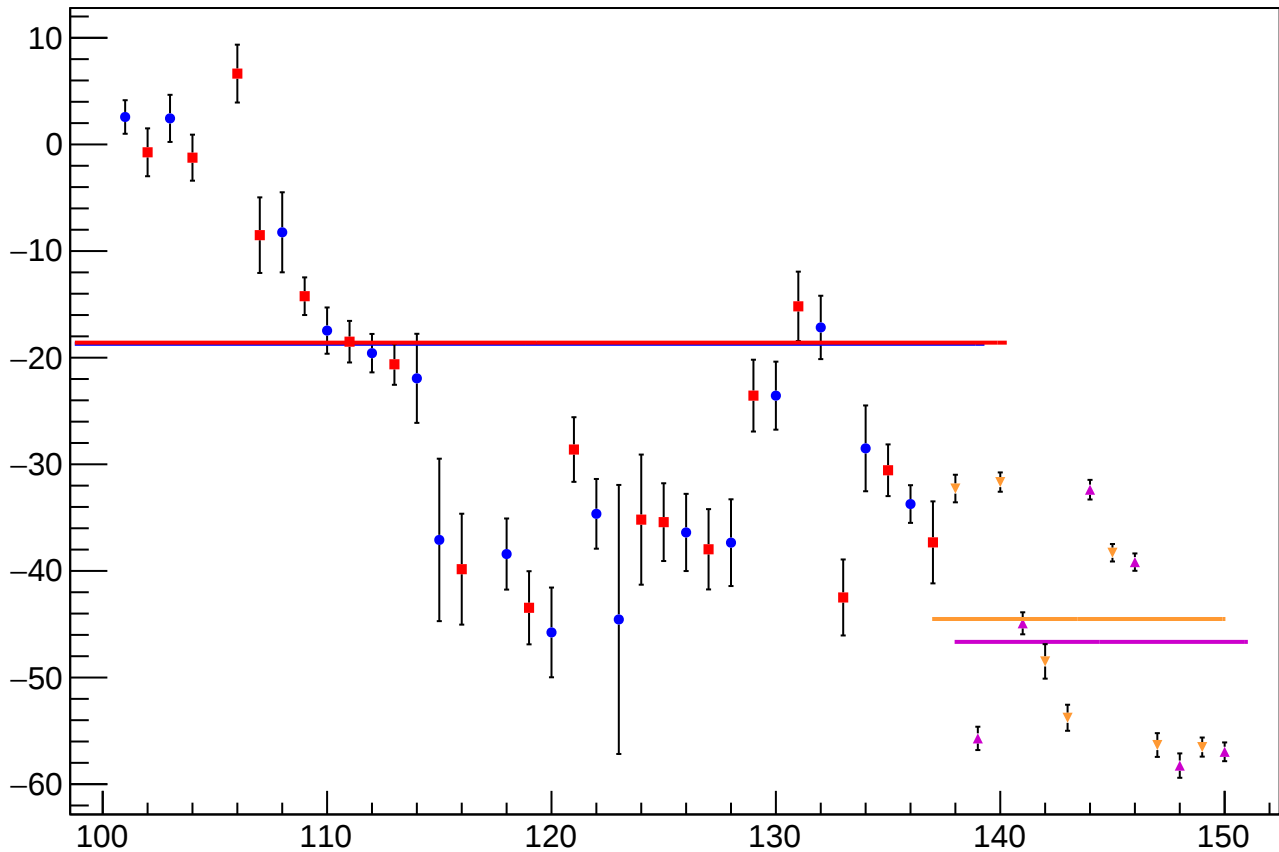
Right:  $32.620 \pm 0.266$   $\chi^2/\text{NDF}: 1178.1/34$

In:  $31.231 \pm 0.219$   $\chi^2/\text{NDF}: 687.5/22$

Out:  $32.420 \pm 0.221$   $\chi^2/\text{NDF}: 1203.9/24$

All:  $31.821 \pm 0.156$   $\chi^2/\text{NDF}: 1906.0/47$

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:  $-44.509 \pm 0.395$   $\chi^2/\text{NDF}$ : 703.9/6

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}$ : 461.3/17

Left In:  $-46.655 \pm 0.392$   $\chi^2/\text{NDF}$ : 636.1/5

Left:  $-45.591 \pm 0.278$   $\chi^2/\text{NDF}$ : 1354.9/12

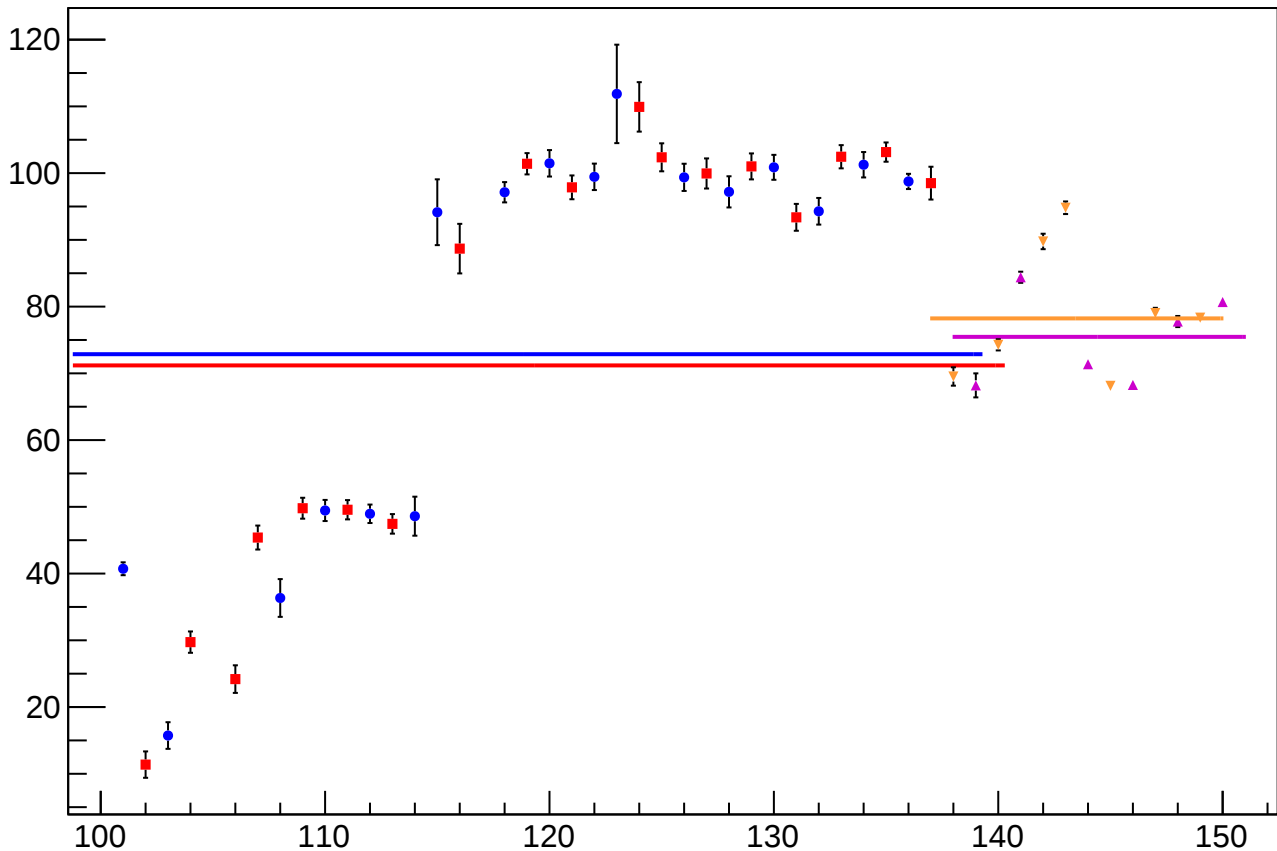
Right:  $-18.643 \pm 0.464$   $\chi^2/\text{NDF}$ : 980.4/34

In:  $-39.478 \pm 0.338$   $\chi^2/\text{NDF}$ : 2462.7/22

Out:  $-37.480 \pm 0.337$   $\chi^2/\text{NDF}$ : 2332.8/24

All:  $-38.477 \pm 0.239$   $\chi^2/\text{NDF}$ : 4813.1/47

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.870+/-0.427  $\chi^2/\text{NDF}$ : 4727.1/16

Left Out: 78.233+/-0.332  $\chi^2/\text{NDF}$ : 656.4/6

Right Out: 71.190+/-0.434  $\chi^2/\text{NDF}$ : 5375.1/17

Left In: 75.468+/-0.331  $\chi^2/\text{NDF}$ : 334.3/5

Left: 76.848+/-0.235  $\chi^2/\text{NDF}$ : 1025.4/12

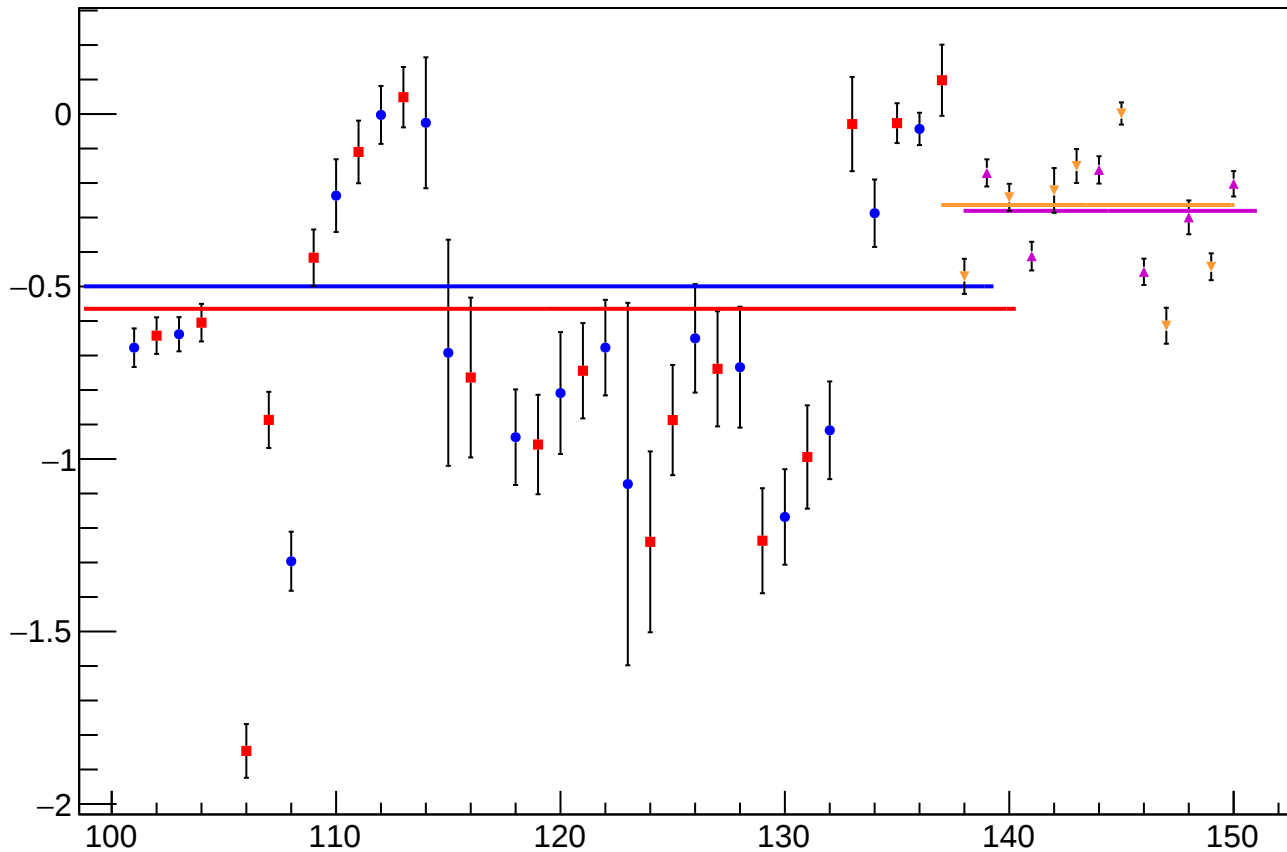
Right: 72.045+/-0.304  $\chi^2/\text{NDF}$ : 10109.9/34

In: 74.490+/-0.262  $\chi^2/\text{NDF}$ : 5084.6/22

Out: 75.634+/-0.264  $\chi^2/\text{NDF}$ : 6197.6/24

All: 75.057+/-0.186  $\chi^2/\text{NDF}$ : 11291.7/47

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:  $-0.264 \pm 0.016$   $\chi^2/\text{NDF}$ : 156.9/6

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

Left In:  $-0.281 \pm 0.016$   $\chi^2/\text{NDF}$ : 52.9/5

Left:  $-0.272 \pm 0.012$   $\chi^2/\text{NDF}$ : 210.3/12

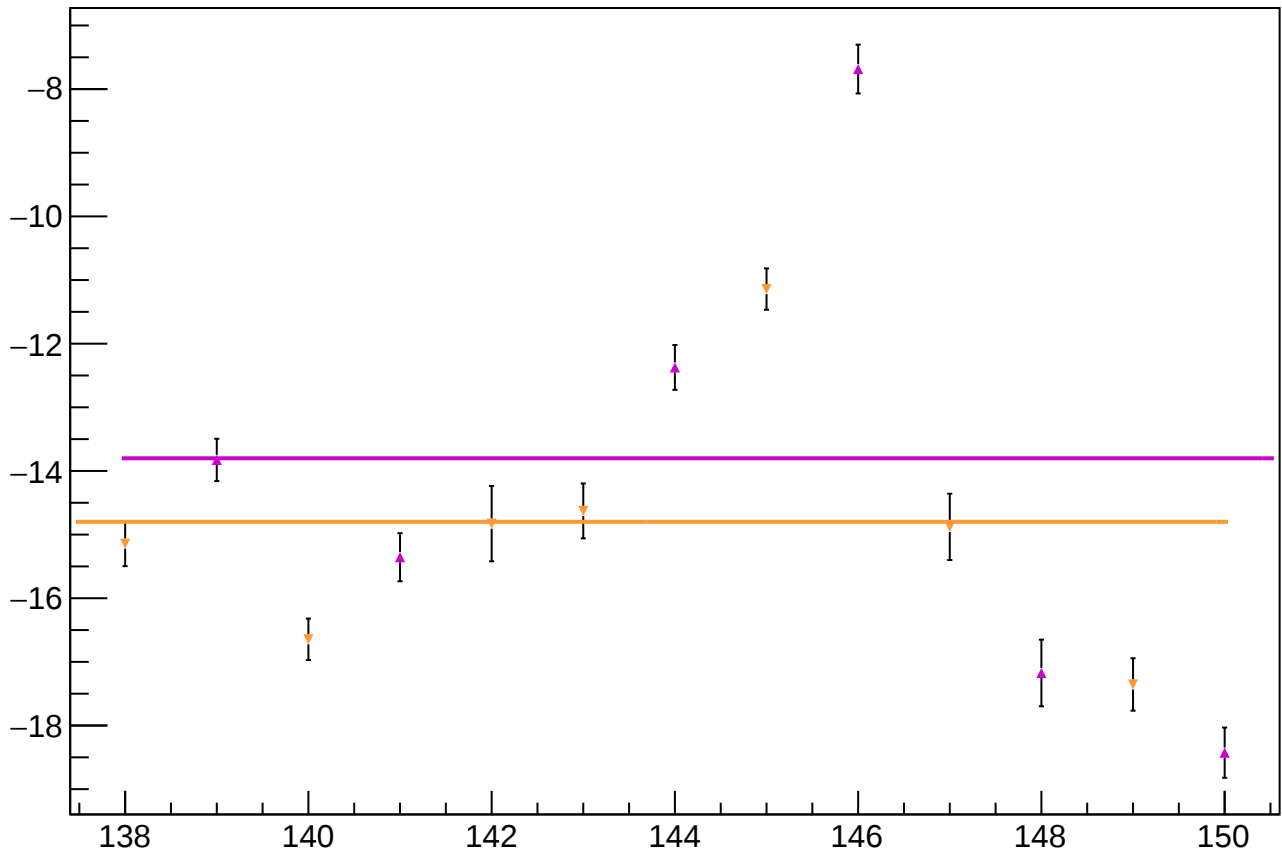
Right:  $-0.533 \pm 0.015$   $\chi^2/\text{NDF}$ : 866.4/34

In:  $-0.358 \pm 0.013$   $\chi^2/\text{NDF}$ : 417.8/22

Out:  $-0.375 \pm 0.013$   $\chi^2/\text{NDF}$ : 839.4/24

All:  $-0.366 \pm 0.009$   $\chi^2/\text{NDF}$ : 1258.0/47

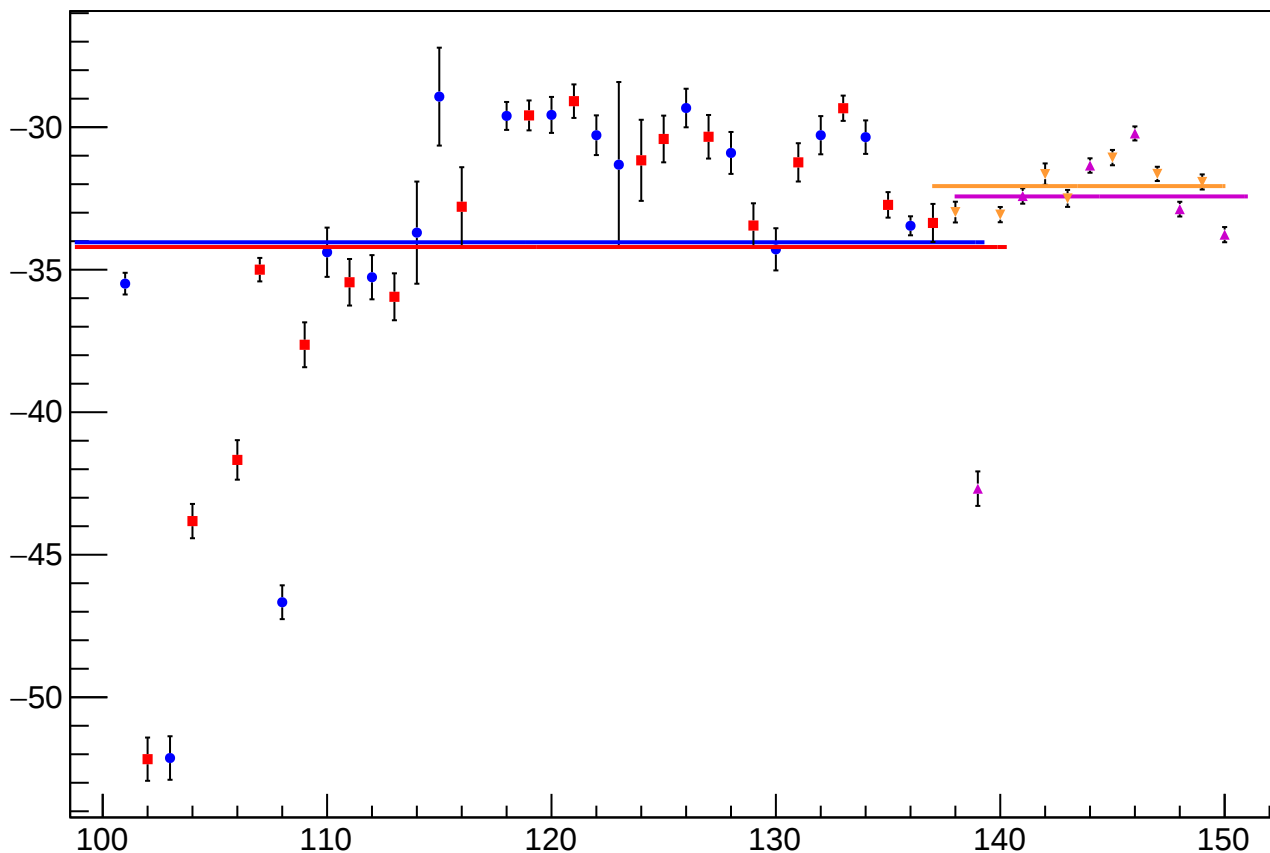
reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -14.799+/-0.150  $\chi^2/\text{NDF}$ :198.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -13.801+/-0.156  $\chi^2/\text{NDF}$ :466.9/5

Left: -14.322+/-0.108  $\chi^2/\text{NDF}$ : 686.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -13.801+/-0.156  $\chi^2/\text{NDF}$ :466.9/5  
 Out: -14.799+/-0.150  $\chi^2/\text{NDF}$ :198.7/6  
 All: -14.322+/-0.108  $\chi^2/\text{NDF}$ : 686.9/12

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:  $-32.067 \pm 0.109$   $\chi^2/\text{NDF}: 40.7/6$

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}: 1320.7/17$

Left In:  $-32.429 \pm 0.114$   $\chi^2/\text{NDF}: 413.6/5$

Left:  $-32.241 \pm 0.079$   $\chi^2/\text{NDF}: 459.6/12$

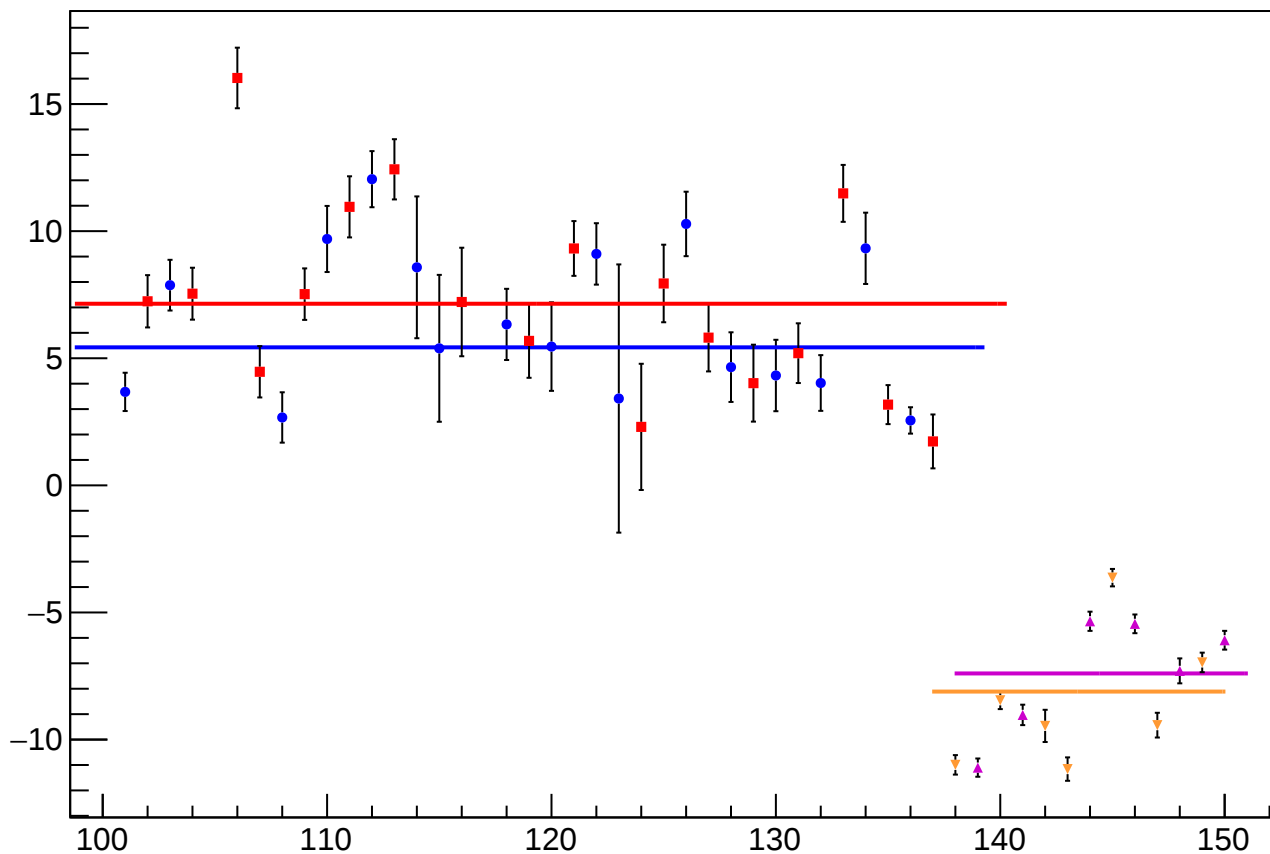
Right:  $-34.121 \pm 0.107$   $\chi^2/\text{NDF}: 2664.3/34$

In:  $-33.011 \pm 0.091$   $\chi^2/\text{NDF}: 1829.1/22$

Out:  $-32.802 \pm 0.088$   $\chi^2/\text{NDF}: 1493.2/24$

All:  $-32.904 \pm 0.063$   $\chi^2/\text{NDF}: 3325.0/47$

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:  $-8.112 \pm 0.155$   $\chi^2/\text{NDF}$ : 292.8/6

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

Left In:  $-7.399 \pm 0.158$   $\chi^2/\text{NDF}$ : 193.0/5

Left:  $-7.764 \pm 0.111$   $\chi^2/\text{NDF}$ : 496.2/12

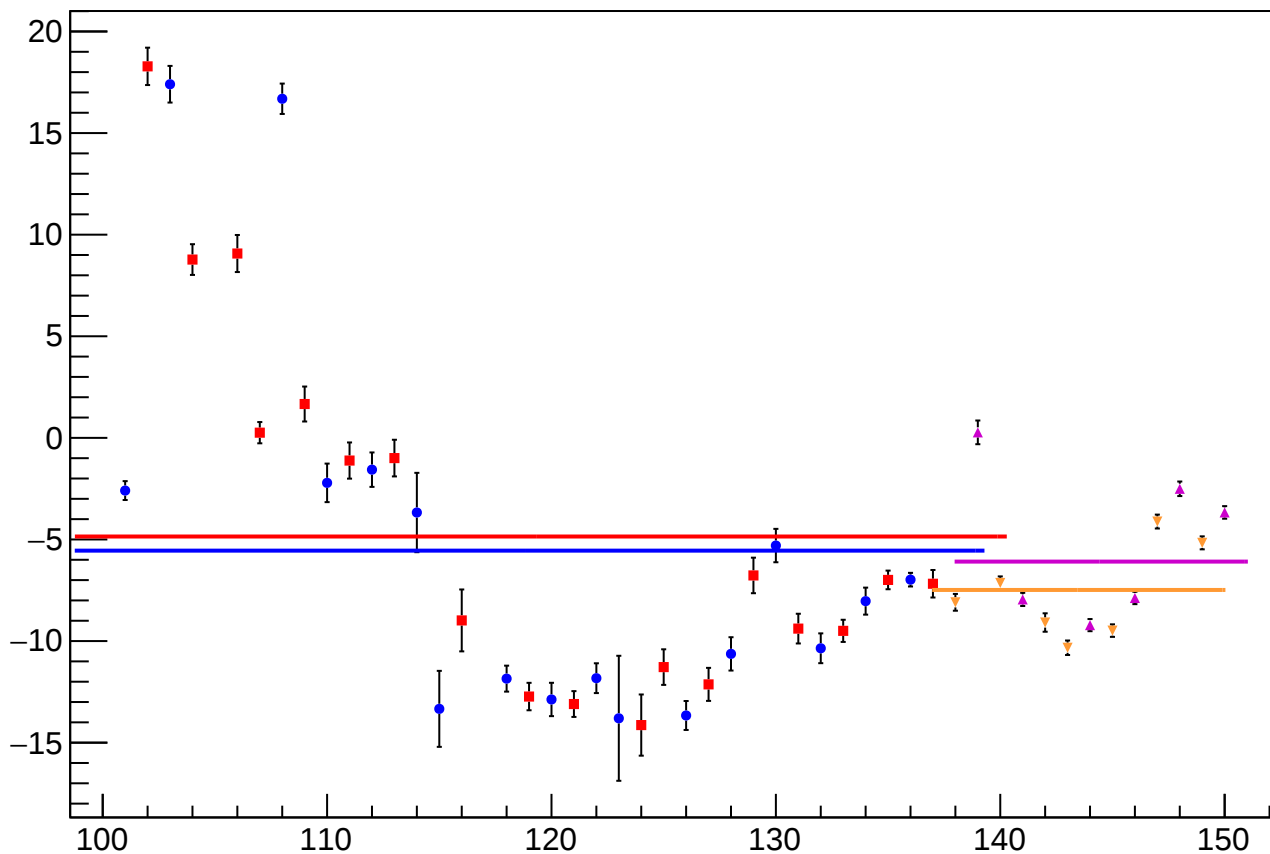
Right:  $6.271 \pm 0.193$   $\chi^2/\text{NDF}$ : 330.3/34

In:  $-4.110 \pm 0.137$   $\chi^2/\text{NDF}$ : 2005.6/22

Out:  $-4.444 \pm 0.135$   $\chi^2/\text{NDF}$ : 2809.5/24

All:  $-4.279 \pm 0.096$   $\chi^2/\text{NDF}$ : 4818.0/47

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:  $-7.485 \pm 0.132$   $\chi^2/\text{NDF}: 270.9/6$

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}: 2013.1/17$

Left In:  $-6.089 \pm 0.138$   $\chi^2/\text{NDF}: 456.8/5$

Left:  $-6.815 \pm 0.095$   $\chi^2/\text{NDF}: 780.9/12$

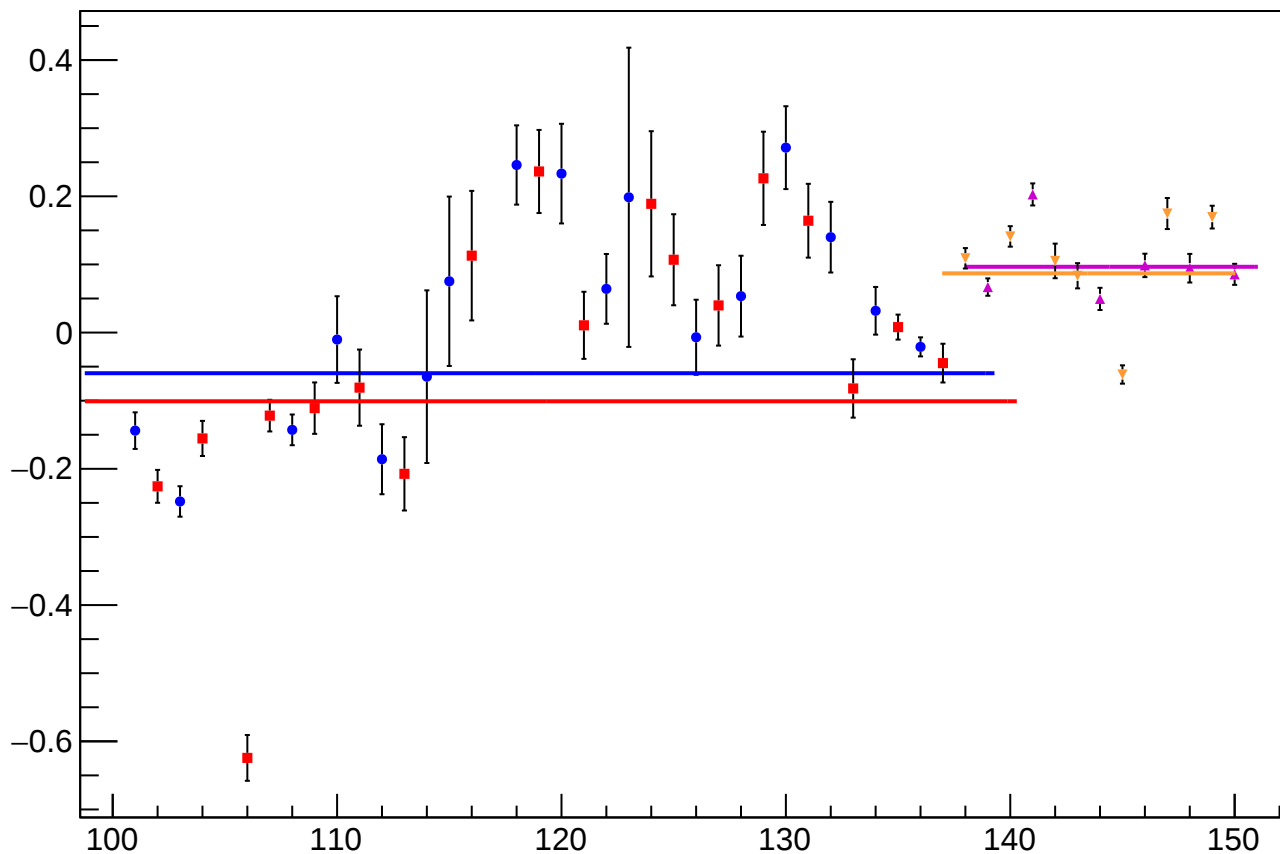
Right:  $-5.208 \pm 0.121$   $\chi^2/\text{NDF}: 4147.9/34$

In:  $-5.875 \pm 0.107$   $\chi^2/\text{NDF}: 2589.4/22$

Out:  $-6.512 \pm 0.105$   $\chi^2/\text{NDF}: 2429.9/24$

All:  $-6.199 \pm 0.075$   $\chi^2/\text{NDF}: 5037.3/47$

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:  $0.087 \pm 0.006$   $\chi^2/\text{NDF}$ : 176.9/6

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

Left In:  $0.097 \pm 0.007$   $\chi^2/\text{NDF}$ : 57.4/5

Left:  $0.092 \pm 0.005$   $\chi^2/\text{NDF}$ : 235.4/12

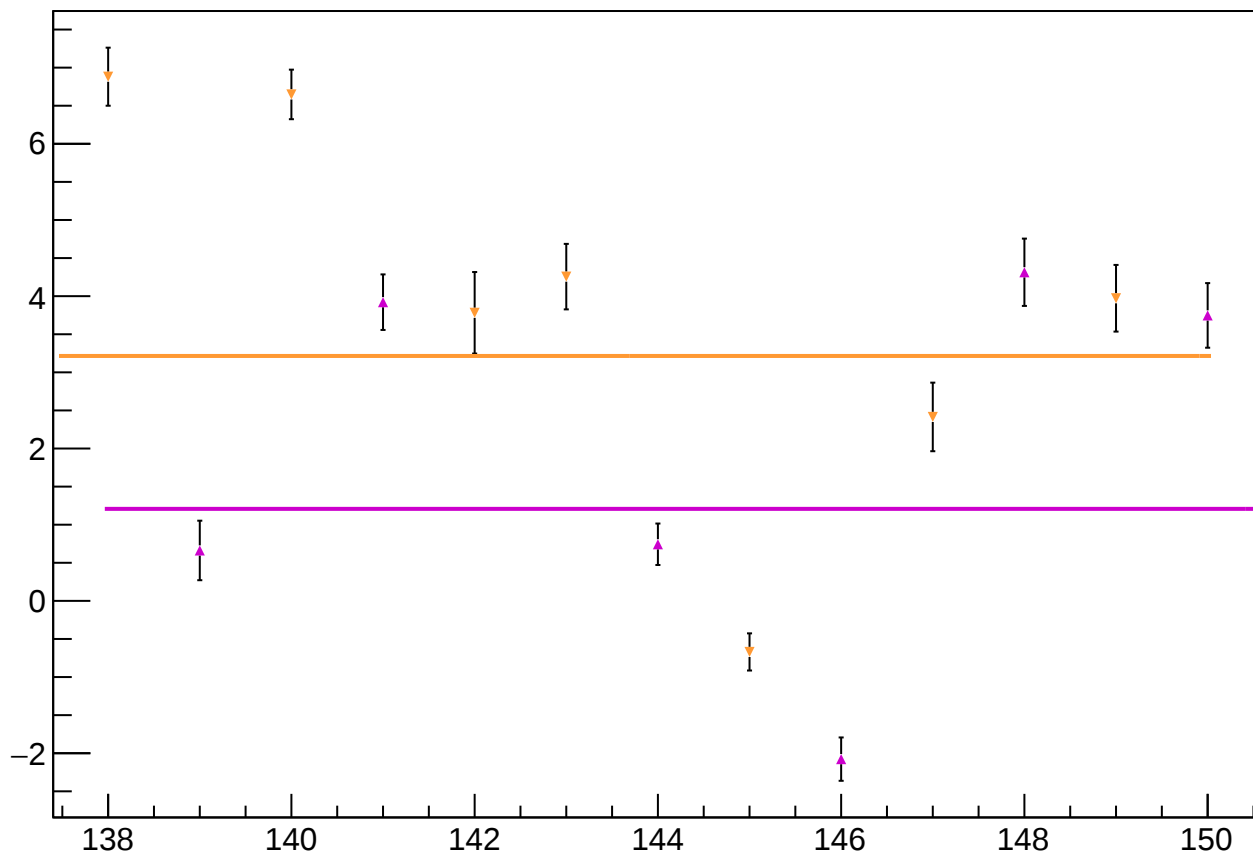
Right:  $-0.080 \pm 0.006$   $\chi^2/\text{NDF}$ : 656.9/34

In:  $0.038 \pm 0.005$   $\chi^2/\text{NDF}$ : 490.2/22

Out:  $0.018 \pm 0.005$   $\chi^2/\text{NDF}$ : 919.1/24

All:  $0.028 \pm 0.004$   $\chi^2/\text{NDF}$ : 1416.6/47

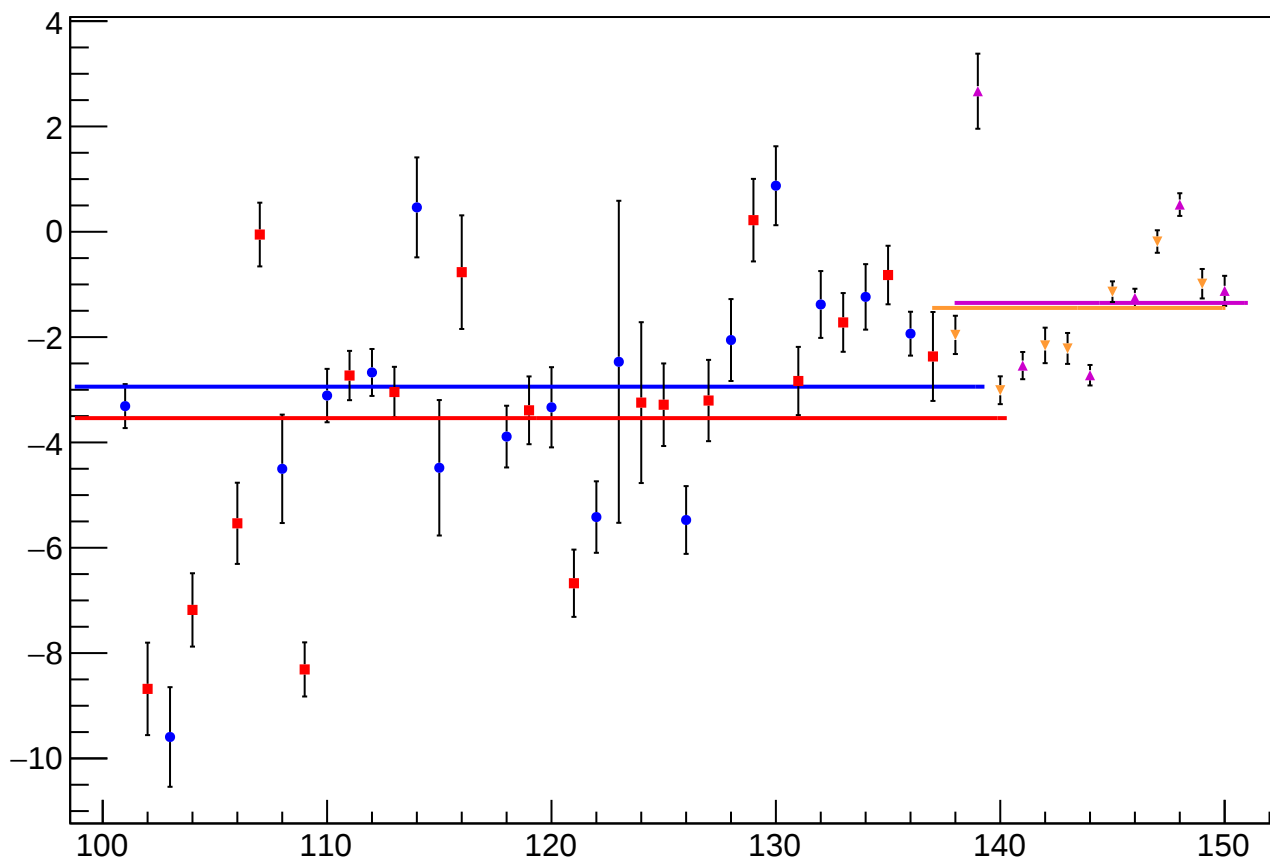
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.215+/-0.138  $\chi^2/\text{NDF}$ :470.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.208+/-0.141  $\chi^2/\text{NDF}$ :278.9/5

Left: 2.227+/-0.099  $\chi^2/\text{NDF}$ : 853.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.208+/-0.141  $\chi^2/\text{NDF}$ :278.9/5  
 Out: 3.215+/-0.138  $\chi^2/\text{NDF}$ :470.9/6  
 All: 2.227+/-0.099  $\chi^2/\text{NDF}$ : 853.3/12

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:  $-1.446 \pm 0.099$   $\chi^2/\text{NDF}$ : 88.3/6

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

Left In:  $-1.351 \pm 0.095$   $\chi^2/\text{NDF}$ : 178.9/5

Left:  $-1.397 \pm 0.069$   $\chi^2/\text{NDF}$ : 267.7/12

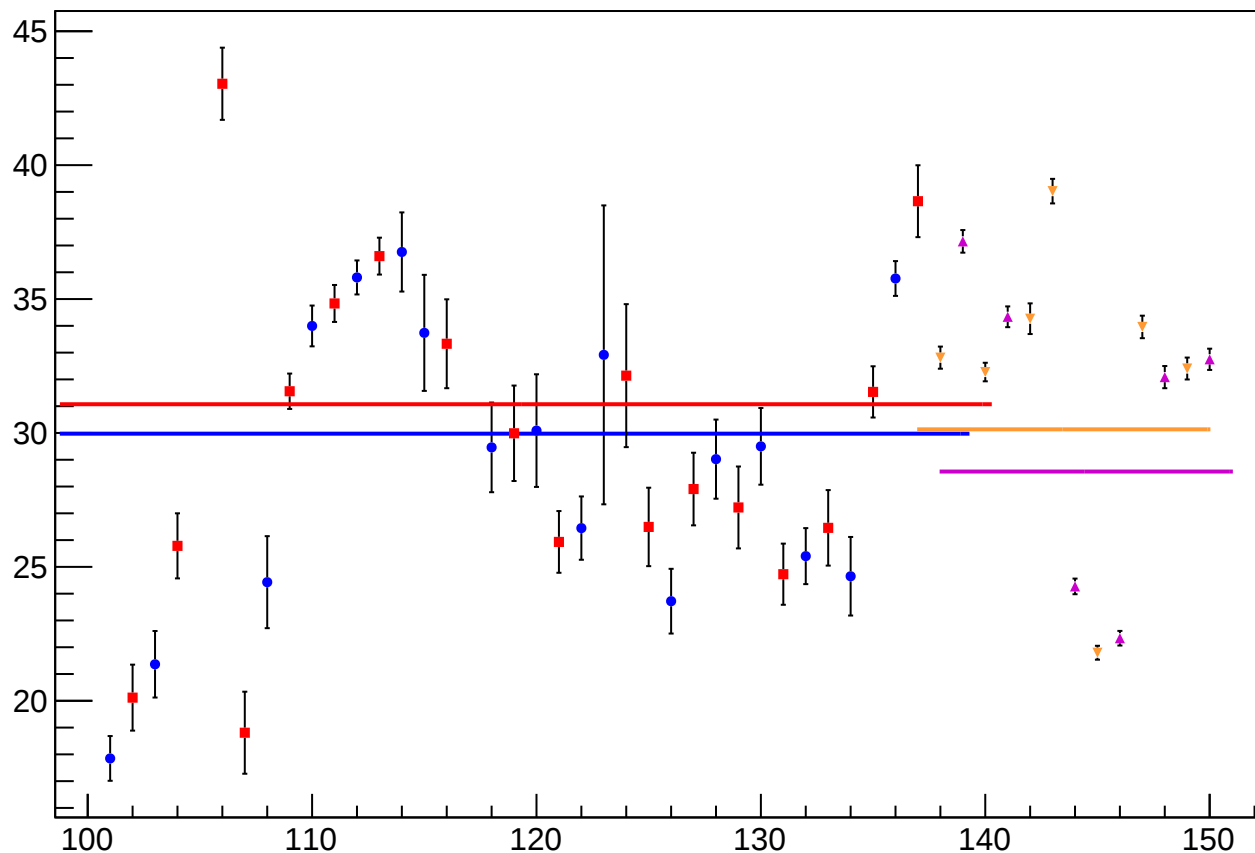
Right:  $-3.239 \pm 0.109$   $\chi^2/\text{NDF}$ : 436.6/34

In:  $-1.790 \pm 0.081$   $\chi^2/\text{NDF}$ : 401.5/22

Out:  $-2.051 \pm 0.083$   $\chi^2/\text{NDF}$ : 502.0/24

All:  $-1.917 \pm 0.058$   $\chi^2/\text{NDF}$ : 908.6/47

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.974 $\pm$ 0.267  $\chi^2$ /NDF: 553.9/16

Left Out: 30.135 $\pm$ 0.144  $\chi^2$ /NDF:1653.9/6

Right Out: 31.073 $\pm$ 0.260  $\chi^2$ /NDF: 453.4/17

Left In: 28.560 $\pm$ 0.142  $\chi^2$ /NDF:1556.4/5

Left: 29.338 $\pm$ 0.101  $\chi^2$ /NDF: 3271.1/12

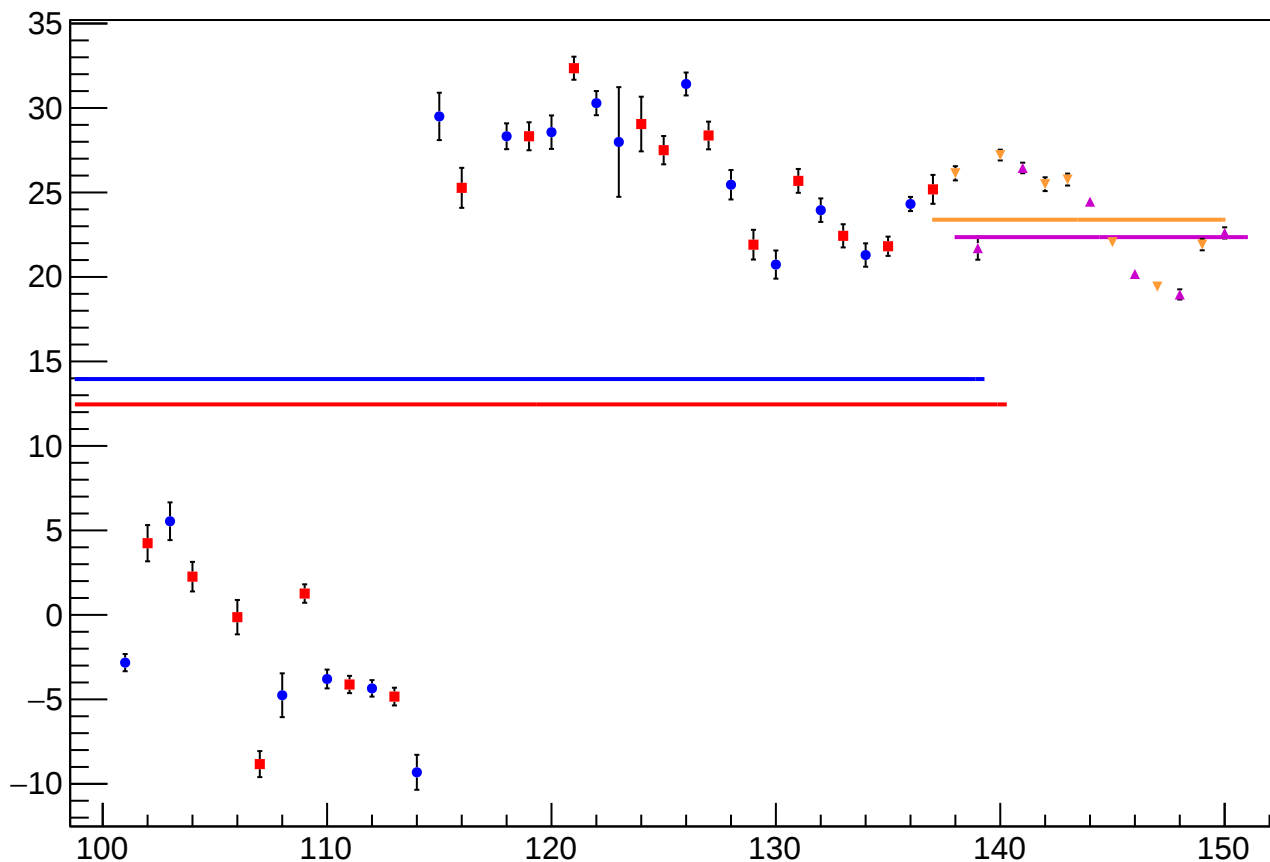
Right: 30.537 $\pm$ 0.187  $\chi^2$ /NDF: 1016.0/34

In: 28.871 $\pm$ 0.125  $\chi^2$ /NDF:2132.2/22

Out: 30.354 $\pm$ 0.126  $\chi^2$ /NDF:2117.2/24

All: 29.610 $\pm$ 0.089  $\chi^2$ /NDF: 4319.1/47

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $13.957 \pm 0.172$   $\chi^2/\text{NDF}: 7348.7/16$

Left Out:  $23.389 \pm 0.120$   $\chi^2/\text{NDF}: 491.7/6$

Right Out:  $12.457 \pm 0.174$   $\chi^2/\text{NDF}: 6979.9/17$

Left In:  $22.357 \pm 0.118$   $\chi^2/\text{NDF}: 482.0/5$

Left:  $22.862 \pm 0.084$   $\chi^2/\text{NDF}: 1011.2/12$

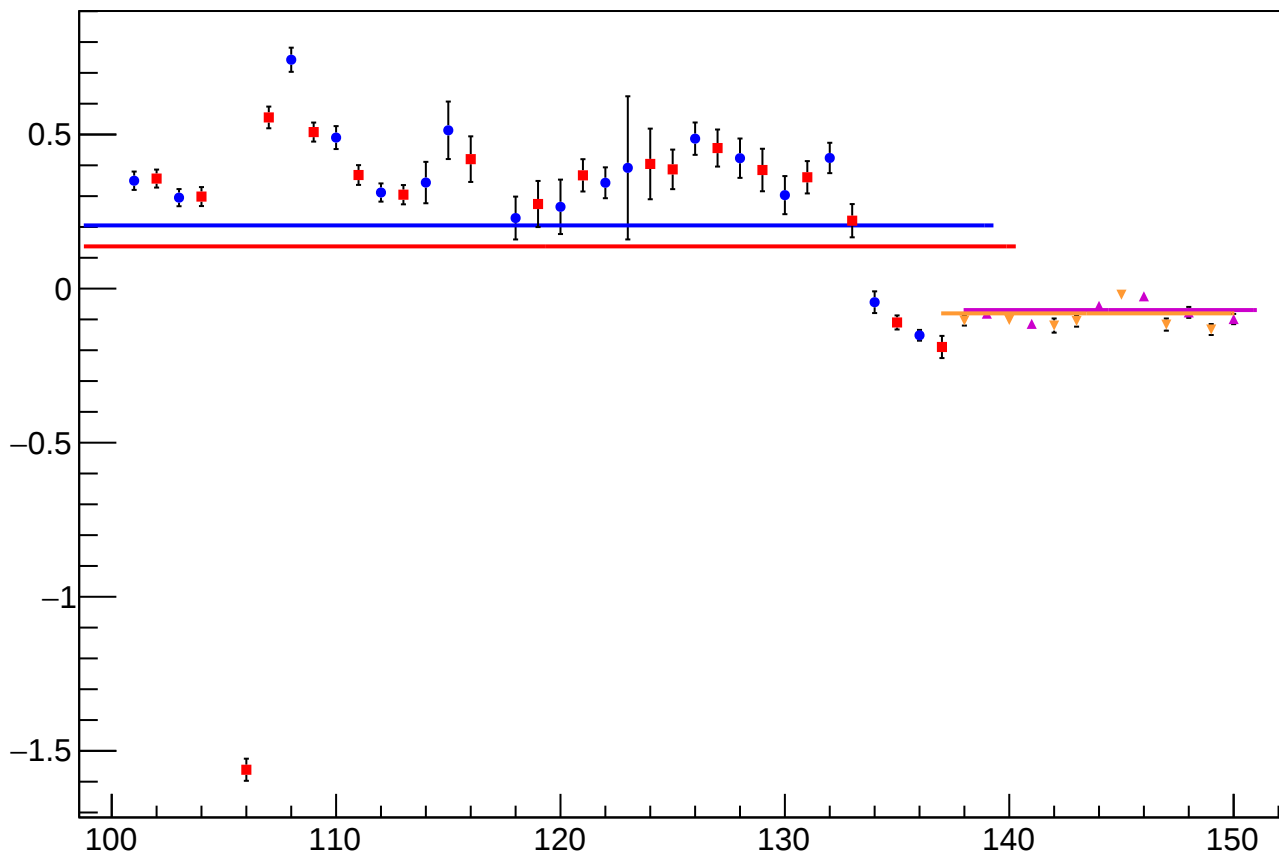
Right:  $13.213 \pm 0.122$   $\chi^2/\text{NDF}: 14366.2/34$

In:  $19.681 \pm 0.097$   $\chi^2/\text{NDF}: 9450.4/22$

Out:  $19.847 \pm 0.099$   $\chi^2/\text{NDF}: 10147.9/24$

All:  $19.763 \pm 0.069$   $\chi^2/\text{NDF}: 19599.7/47$

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: -0.080+/-0.006  $\chi^2/\text{NDF}$ : 56.2/6

Right Out: 0.137+/-0.009  $\chi^2/\text{NDF}$ : 3007.9/17

Left In: -0.070+/-0.006  $\chi^2/\text{NDF}$ : 25.5/5

Left: -0.075+/-0.004  $\chi^2/\text{NDF}$ : 83.3/12

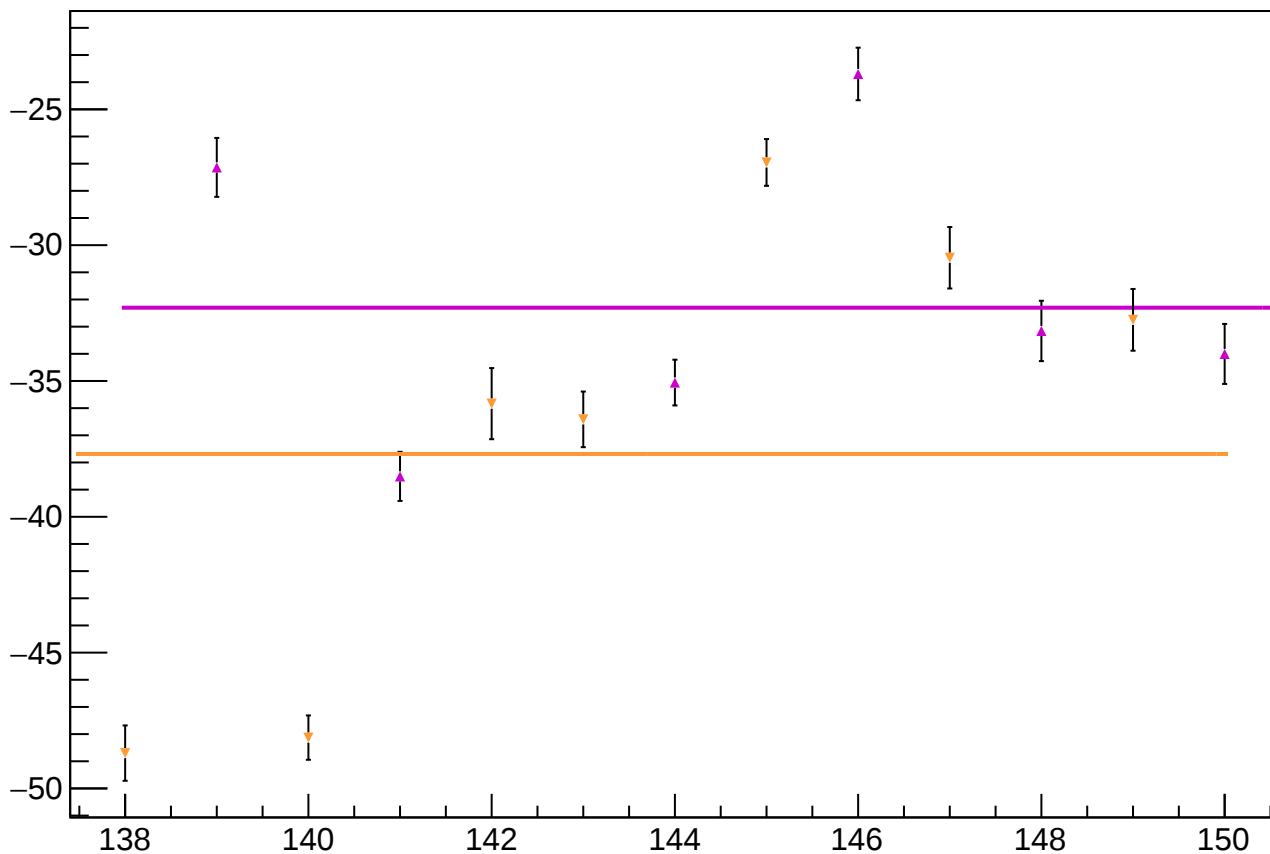
Right: 0.170+/-0.007  $\chi^2/\text{NDF}$ : 3881.4/34

In: 0.010+/-0.005  $\chi^2/\text{NDF}$ : 1482.2/22

Out: -0.017+/-0.005  $\chi^2/\text{NDF}$ : 3456.9/24

All: -0.003+/-0.004  $\chi^2/\text{NDF}$ : 4953.0/47

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -37.689 $\pm$ 0.381  $\chi^2$ /NDF:498.9/6

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

Left In: -32.302 $\pm$ 0.402  $\chi^2$ /NDF:162.7/5

Left: -35.144 $\pm$ 0.276  $\chi^2$ /NDF: 756.3/12

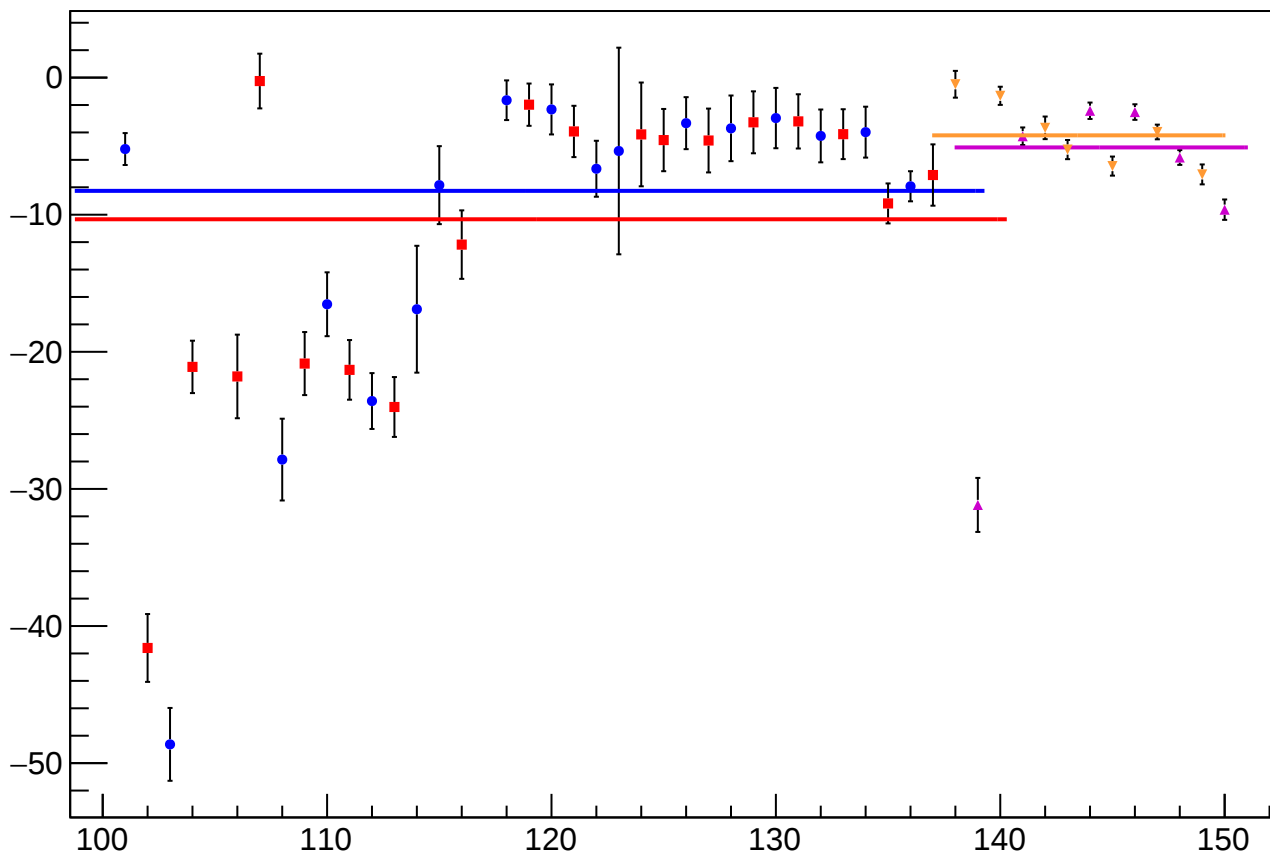
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -32.302 $\pm$ 0.402  $\chi^2$ /NDF:162.7/5

Out: -37.689 $\pm$ 0.381  $\chi^2$ /NDF:498.9/6

All: -35.144 $\pm$ 0.276  $\chi^2$ /NDF: 756.3/12

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:  $-4.212 \pm 0.265$   $\chi^2/\text{NDF}$ : 62.1/6

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}$ : 410.9/17

Left In:  $-5.093 \pm 0.269$   $\chi^2/\text{NDF}$ : 256.5/5

Left:  $-4.645 \pm 0.189$   $\chi^2/\text{NDF}$ : 324.0/12

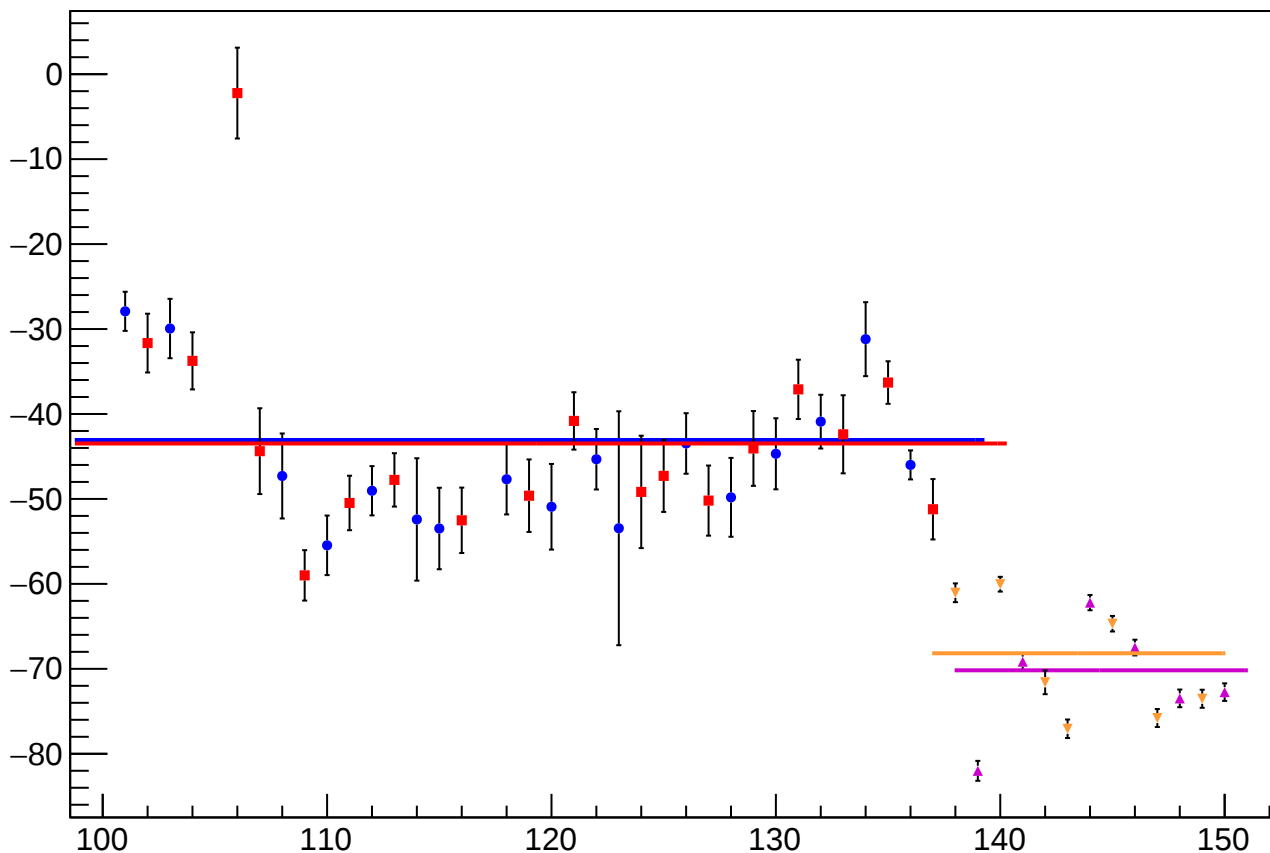
Right:  $-9.235 \pm 0.337$   $\chi^2/\text{NDF}$ : 832.3/34

In:  $-5.893 \pm 0.233$   $\chi^2/\text{NDF}$ : 703.4/22

Out:  $-5.589 \pm 0.233$   $\chi^2/\text{NDF}$ : 593.5/24

All:  $-5.741 \pm 0.165$   $\chi^2/\text{NDF}$ : 1297.7/47

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:  $-68.170 \pm 0.393$   $\chi^2/\text{NDF}: 293.2/6$

Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$

Left In:  $-70.174 \pm 0.406$   $\chi^2/\text{NDF}: 205.7/5$

Left:  $-69.140 \pm 0.282$   $\chi^2/\text{NDF}: 511.5/12$

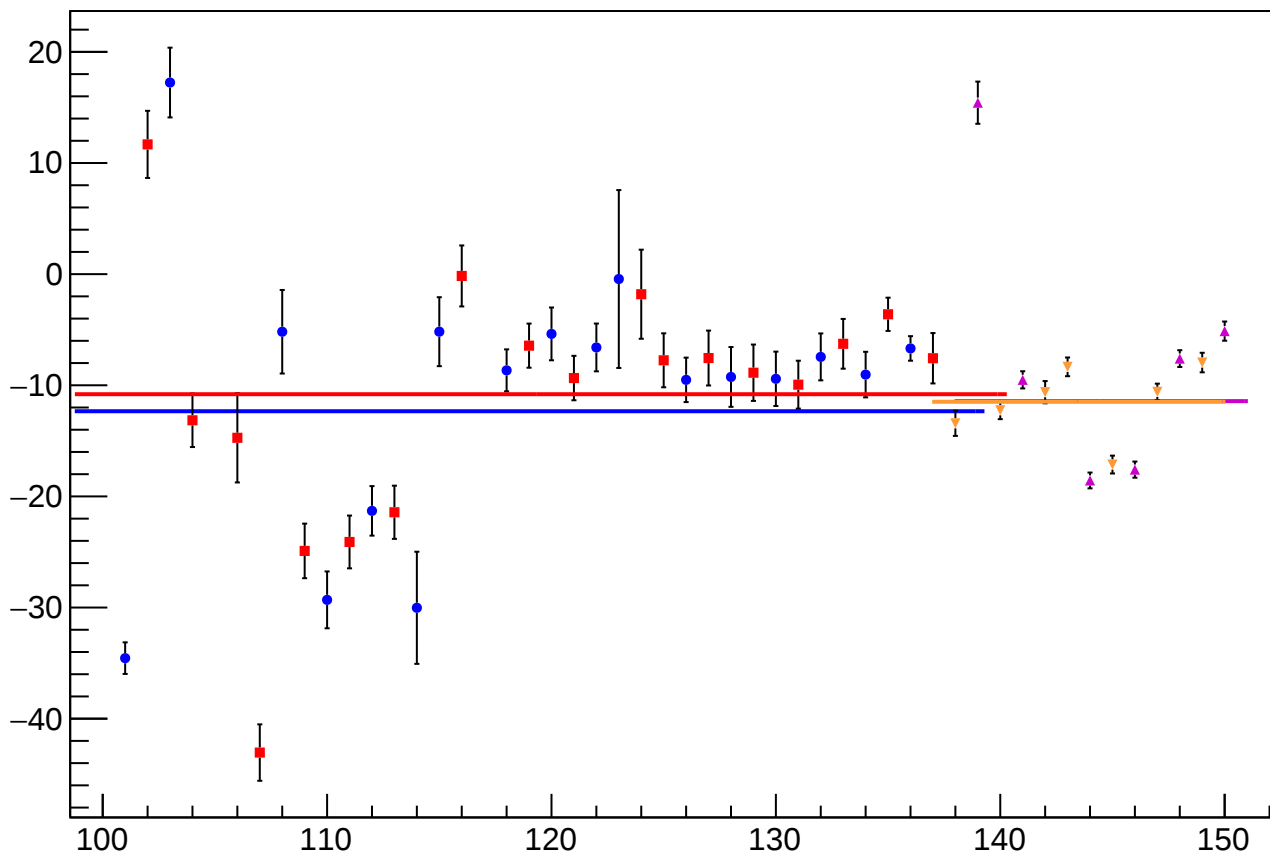
Right:  $-43.261 \pm 0.602$   $\chi^2/\text{NDF}: 241.5/34$

In:  $-64.995 \pm 0.365$   $\chi^2/\text{NDF}: 1156.8/22$

Out:  $-63.971 \pm 0.358$   $\chi^2/\text{NDF}: 1106.3/24$

All:  $-64.473 \pm 0.256$   $\chi^2/\text{NDF}: 2267.1/47$

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:  $-11.482 \pm 0.326$   $\chi^2/\text{NDF}$ : 85.6/6

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

Left In:  $-11.425 \pm 0.335$   $\chi^2/\text{NDF}$ : 458.0/5

Left:  $-11.454 \pm 0.233$   $\chi^2/\text{NDF}$ : 543.7/12

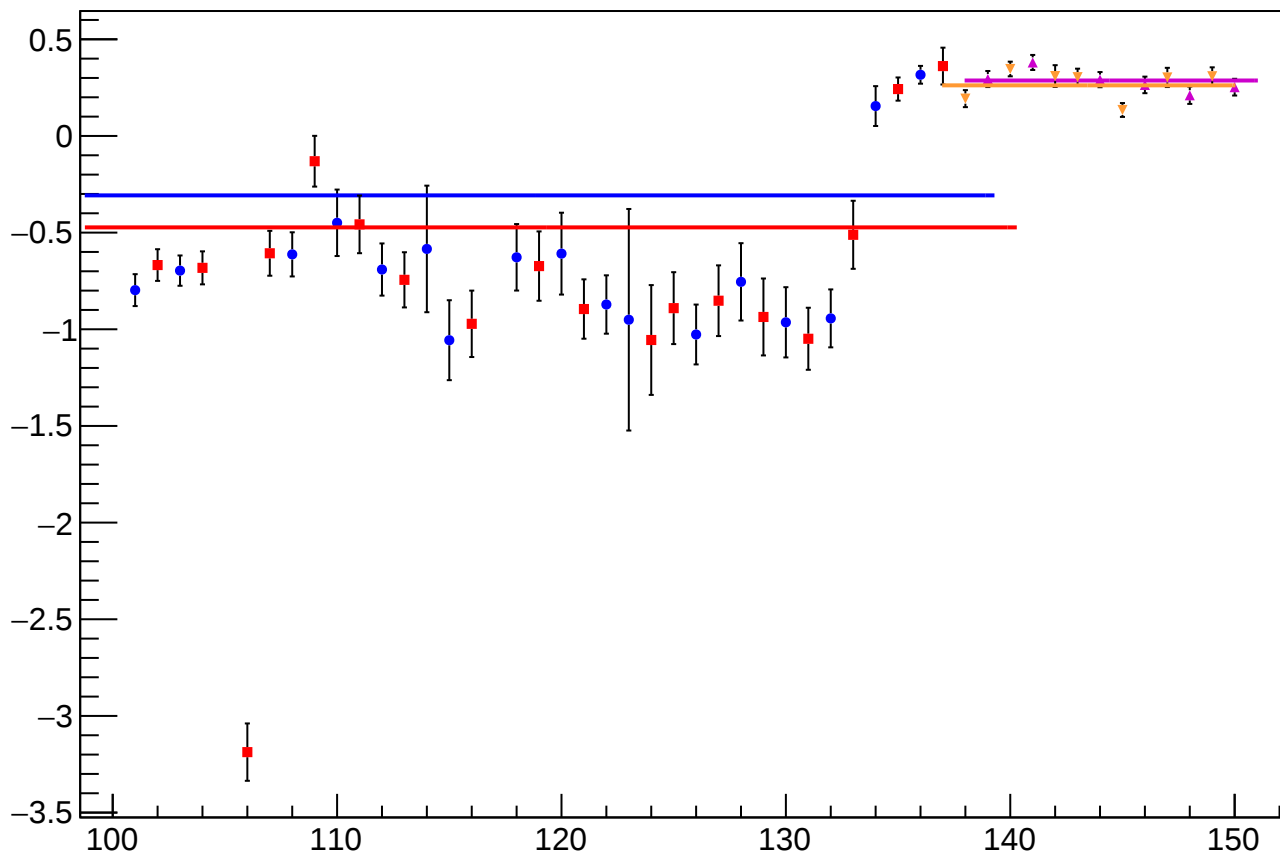
Right:  $-11.618 \pm 0.379$   $\chi^2/\text{NDF}$ : 840.6/34

In:  $-11.692 \pm 0.282$   $\chi^2/\text{NDF}$ : 935.3/22

Out:  $-11.308 \pm 0.281$   $\chi^2/\text{NDF}$ : 448.1/24

All:  $-11.499 \pm 0.199$   $\chi^2/\text{NDF}$ : 1384.4/47

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:  $0.262 \pm 0.016$   $\chi^2/\text{NDF}$ : 23.4/6

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

Left In:  $0.287 \pm 0.017$   $\chi^2/\text{NDF}$ : 9.6/5

Left:  $0.274 \pm 0.012$   $\chi^2/\text{NDF}$ : 34.2/12

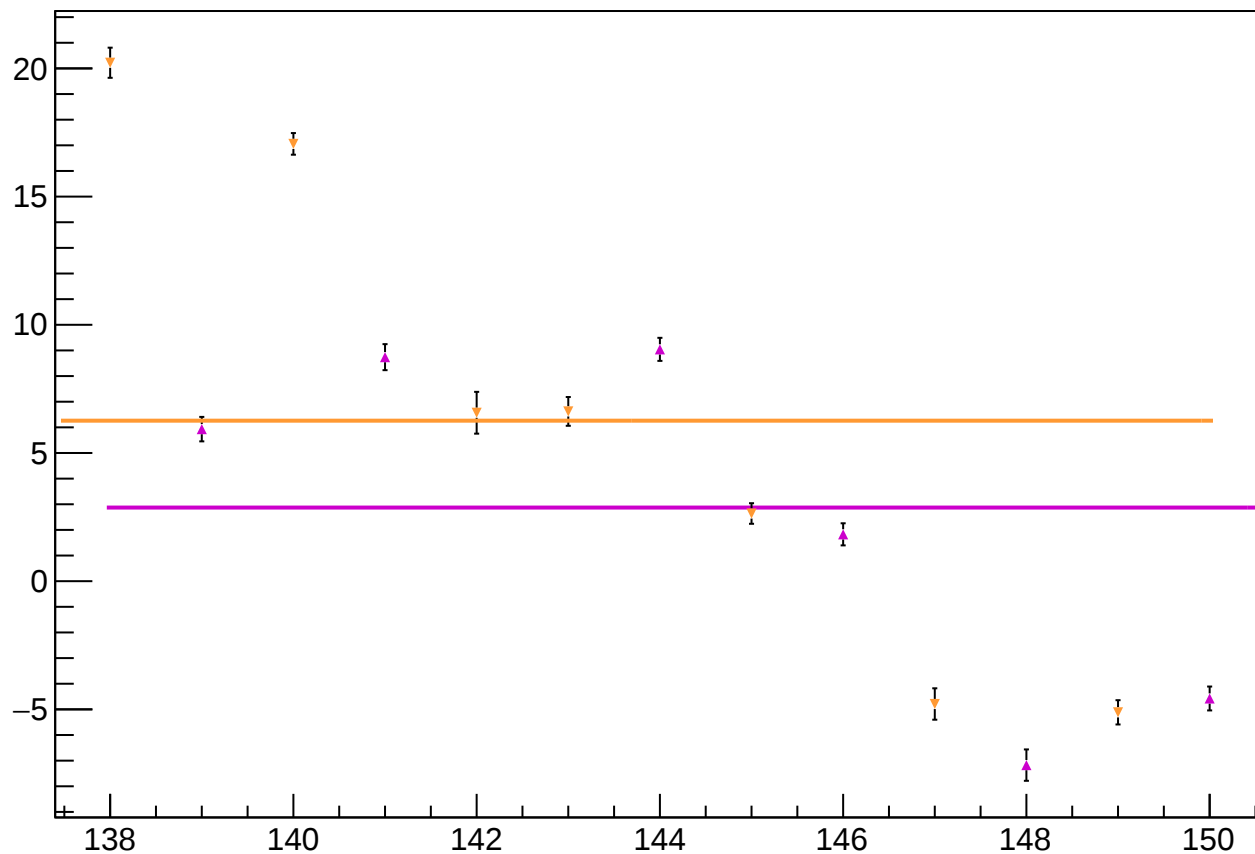
Right:  $-0.387 \pm 0.020$   $\chi^2/\text{NDF}$ : 1016.1/34

In:  $0.123 \pm 0.014$   $\chi^2/\text{NDF}$ : 719.4/22

Out:  $0.079 \pm 0.014$   $\chi^2/\text{NDF}$ : 1145.2/24

All:  $0.101 \pm 0.010$   $\chi^2/\text{NDF}$ : 1869.3/47

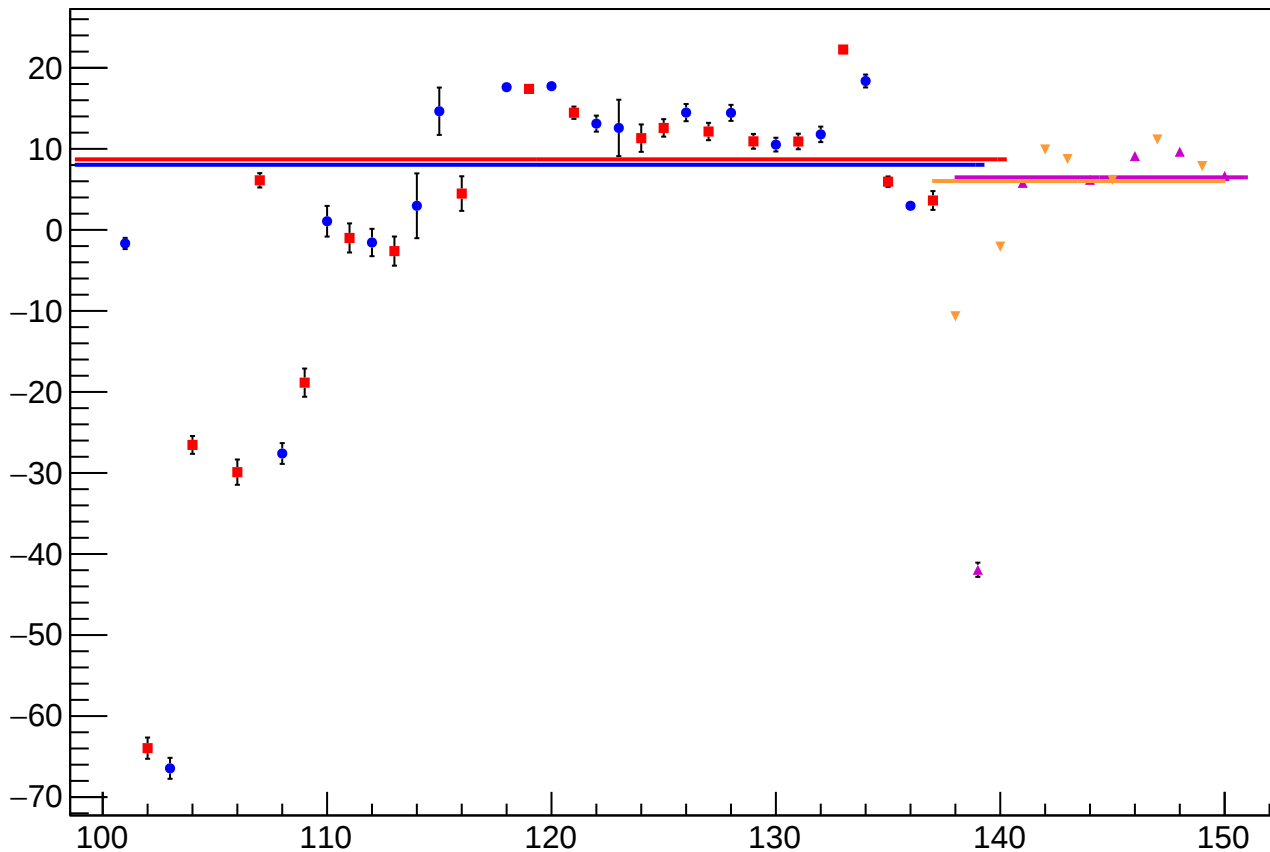
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $6.260 \pm 0.194$   $\chi^2/\text{NDF}: 2202.6/6$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $2.871 \pm 0.197$   $\chi^2/\text{NDF}: 893.8/5$

Left:  $4.587 \pm 0.138$   $\chi^2/\text{NDF}: 3246.9/12$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $2.871 \pm 0.197$   $\chi^2/\text{NDF}: 893.8/5$   
 Out:  $6.260 \pm 0.194$   $\chi^2/\text{NDF}: 2202.6/6$   
 All:  $4.587 \pm 0.138$   $\chi^2/\text{NDF}: 3246.9/12$

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:  $6.027 \pm 0.137$   $\chi^2/\text{NDF}$ : 1764.6/6

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}$ : 6290.2/17

Left In:  $6.484 \pm 0.138$   $\chi^2/\text{NDF}$ : 3236.1/5

Left:  $6.255 \pm 0.097$   $\chi^2/\text{NDF}$ : 5006.3/12

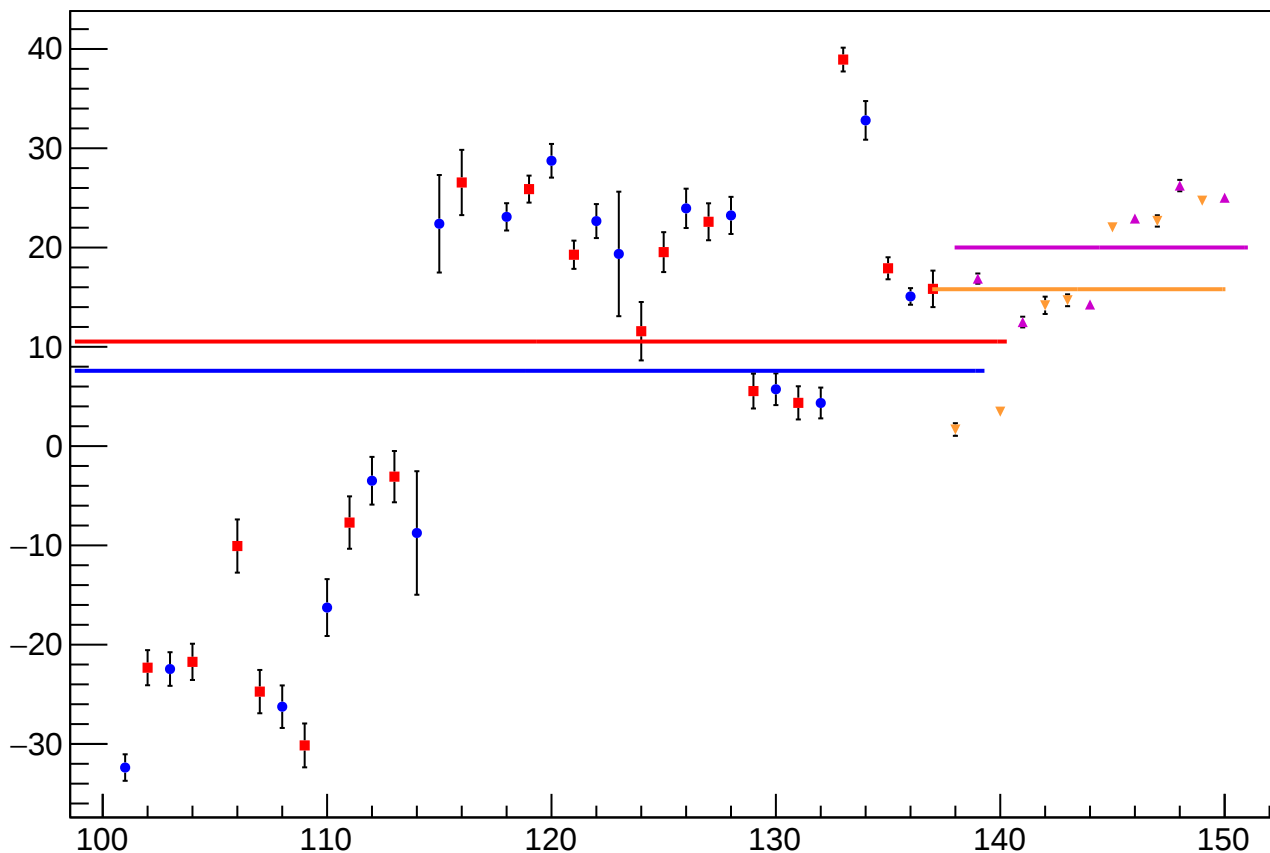
Right:  $8.375 \pm 0.151$   $\chi^2/\text{NDF}$ : 11665.4/34

In:  $6.936 \pm 0.116$   $\chi^2/\text{NDF}$ : 8643.2/22

Out:  $6.815 \pm 0.116$   $\chi^2/\text{NDF}$ : 8166.5/24

All:  $6.875 \pm 0.082$   $\chi^2/\text{NDF}$ : 16810.3/47

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:  $15.802 \pm 0.199$   $\chi^2/\text{NDF}$ : 2016.0/6

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}$ : 2279.5/17

Left In:  $20.006 \pm 0.198$   $\chi^2/\text{NDF}$ : 672.7/5

Left:  $17.922 \pm 0.140$   $\chi^2/\text{NDF}$ : 2913.4/12

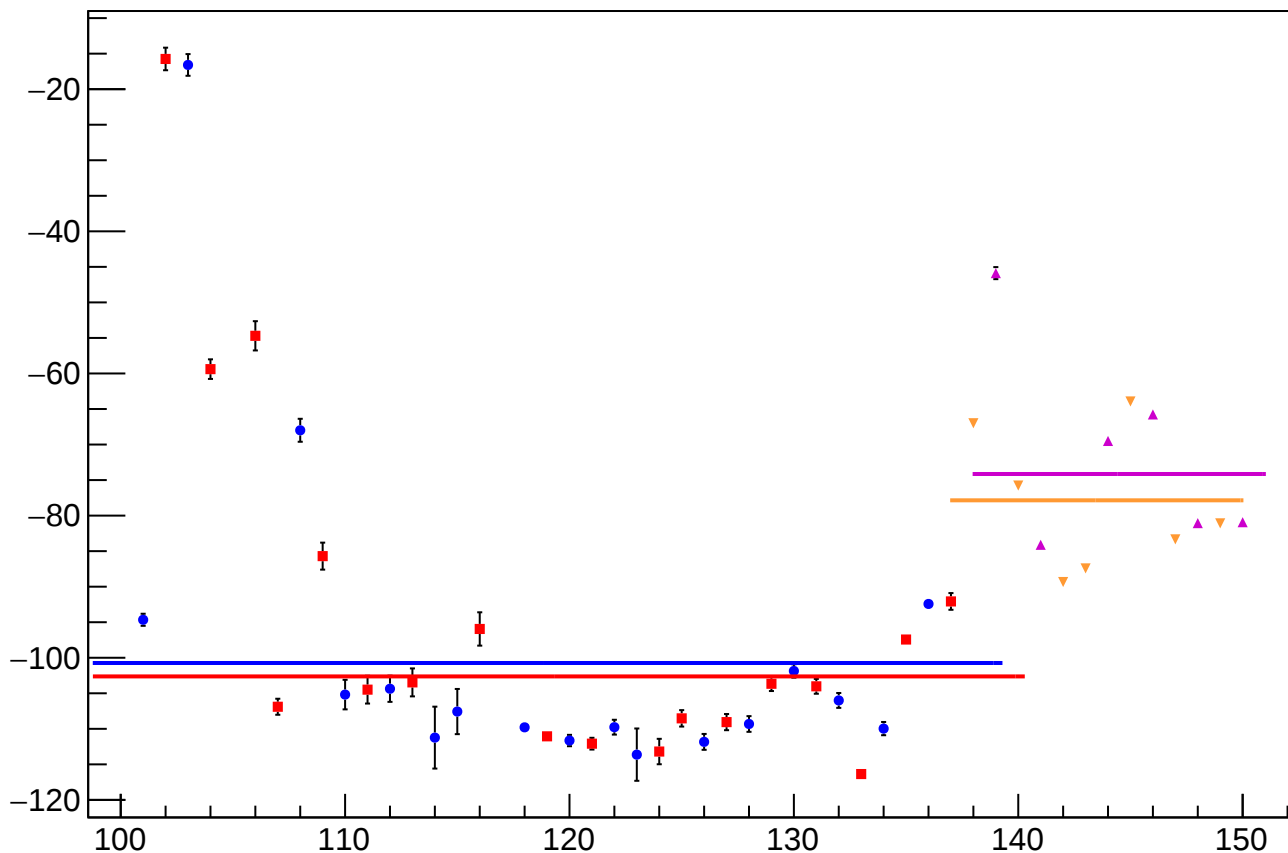
Right:  $9.054 \pm 0.295$   $\chi^2/\text{NDF}$ : 4627.2/34

In:  $17.724 \pm 0.178$   $\chi^2/\text{NDF}$ : 3722.2/22

Out:  $14.825 \pm 0.180$   $\chi^2/\text{NDF}$ : 4425.2/24

All:  $16.285 \pm 0.127$   $\chi^2/\text{NDF}$ : 8278.4/47

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -100.736+/-0.248  $\chi^2/\text{NDF}$ : 4520.6/16

Left Out: -77.849+/-0.168  $\chi^2/\text{NDF}$ : 2653.7/6

Right Out: -102.625+/-0.246  $\chi^2/\text{NDF}$ : 5716.3/17

Left In: -74.145+/-0.169  $\chi^2/\text{NDF}$ : 2993.2/5

Left: -76.005+/-0.119  $\chi^2/\text{NDF}$ : 5889.3/12

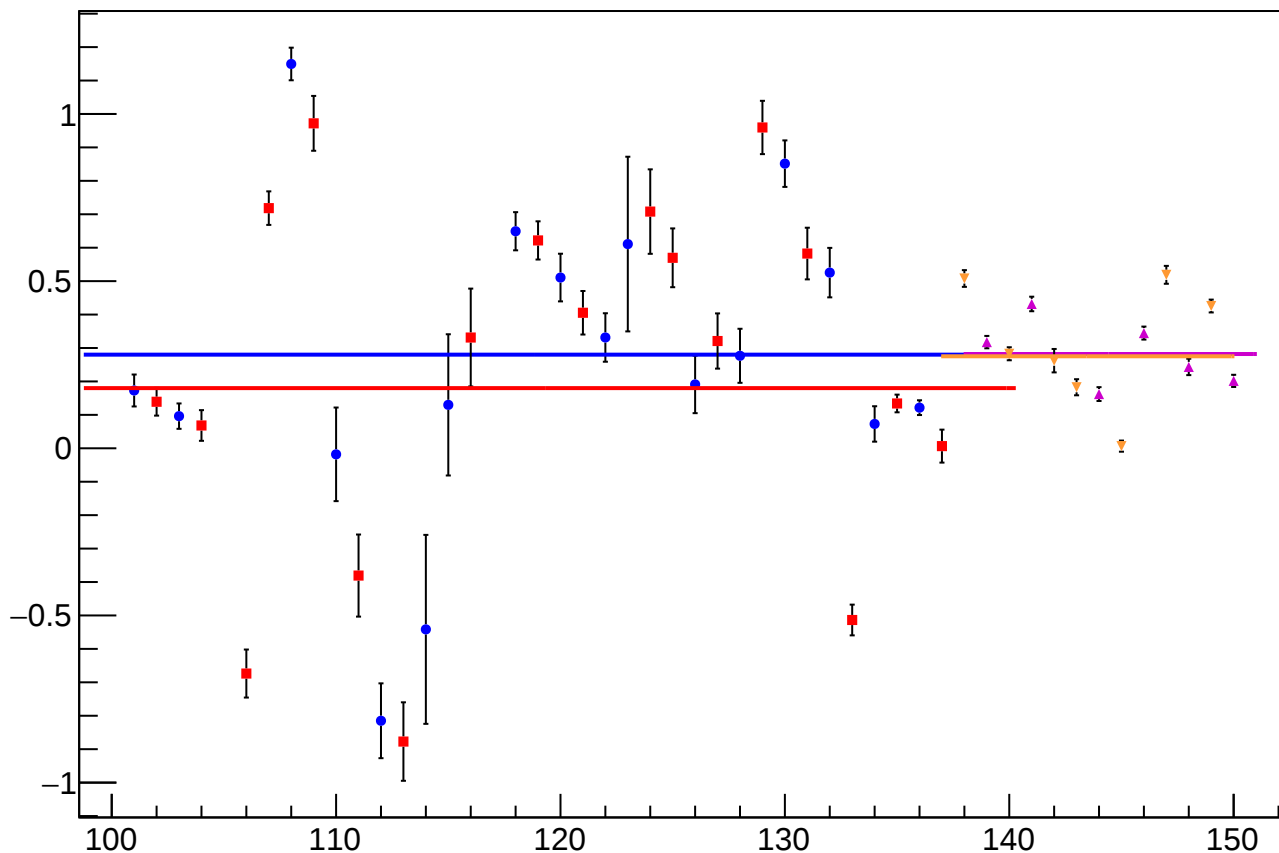
Right: -101.689+/-0.175  $\chi^2/\text{NDF}$ : 10266.1/34

In: -82.534+/-0.139  $\chi^2/\text{NDF}$ : 15363.8/22

Out: -85.712+/-0.139  $\chi^2/\text{NDF}$ : 15288.5/24

All: -84.133+/-0.098  $\chi^2/\text{NDF}$ : 30913.4/47

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:  $0.275 \pm 0.008$   $\chi^2/\text{NDF}$ : 505.8/6

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

Left In:  $0.282 \pm 0.008$   $\chi^2/\text{NDF}$ : 116.8/5

Left:  $0.279 \pm 0.006$   $\chi^2/\text{NDF}$ : 622.9/12

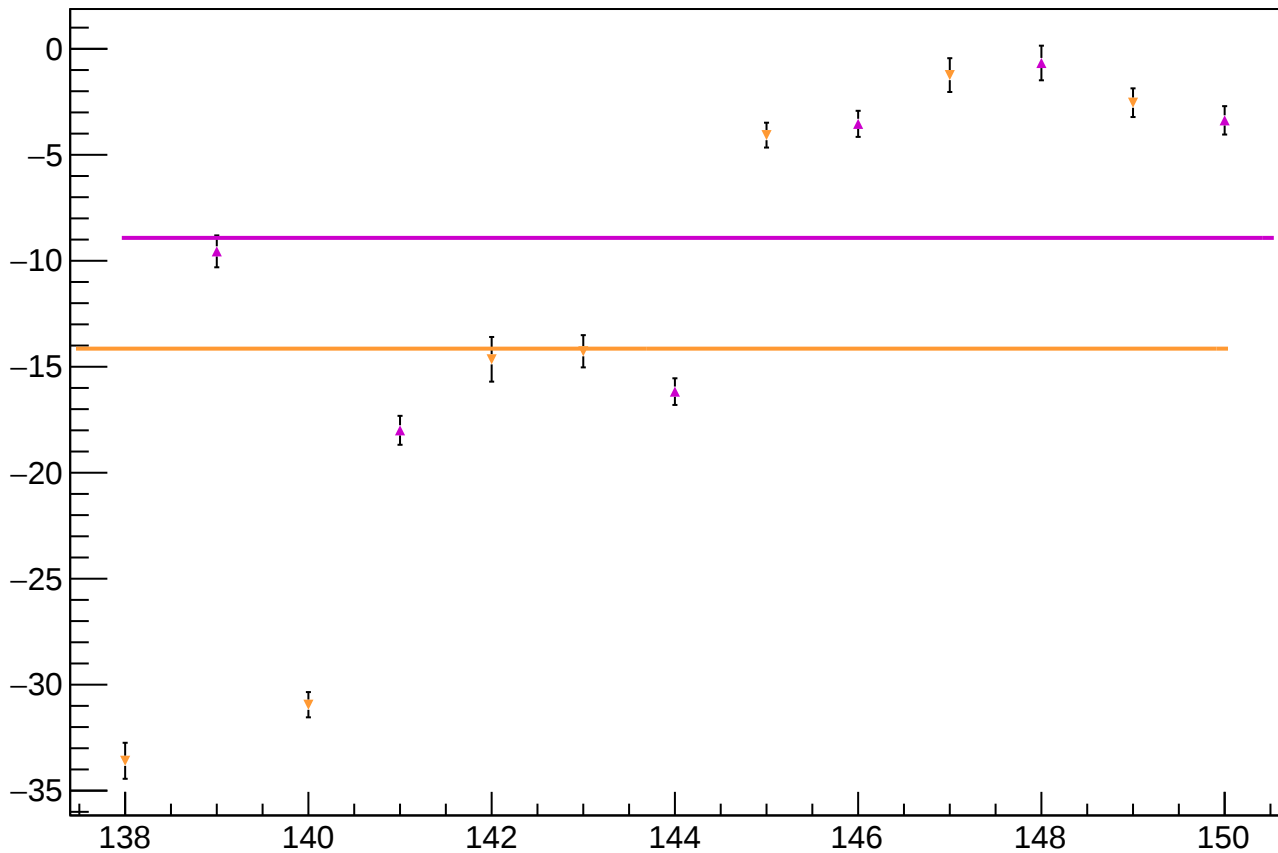
Right:  $0.230 \pm 0.010$   $\chi^2/\text{NDF}$ : 1621.0/34

In:  $0.281 \pm 0.007$   $\chi^2/\text{NDF}$ : 773.2/22

Out:  $0.249 \pm 0.007$   $\chi^2/\text{NDF}$ : 1479.0/24

All:  $0.265 \pm 0.005$   $\chi^2/\text{NDF}$ : 2262.8/47

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -14.145+/-0.272  $\chi^2/\text{NDF}$ :2169.9/6

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

Left In: -8.919+/-0.279  $\chi^2/\text{NDF}$ :557.4/5

Left: -11.600+/-0.195  $\chi^2/\text{NDF}$ : 2906.8/12

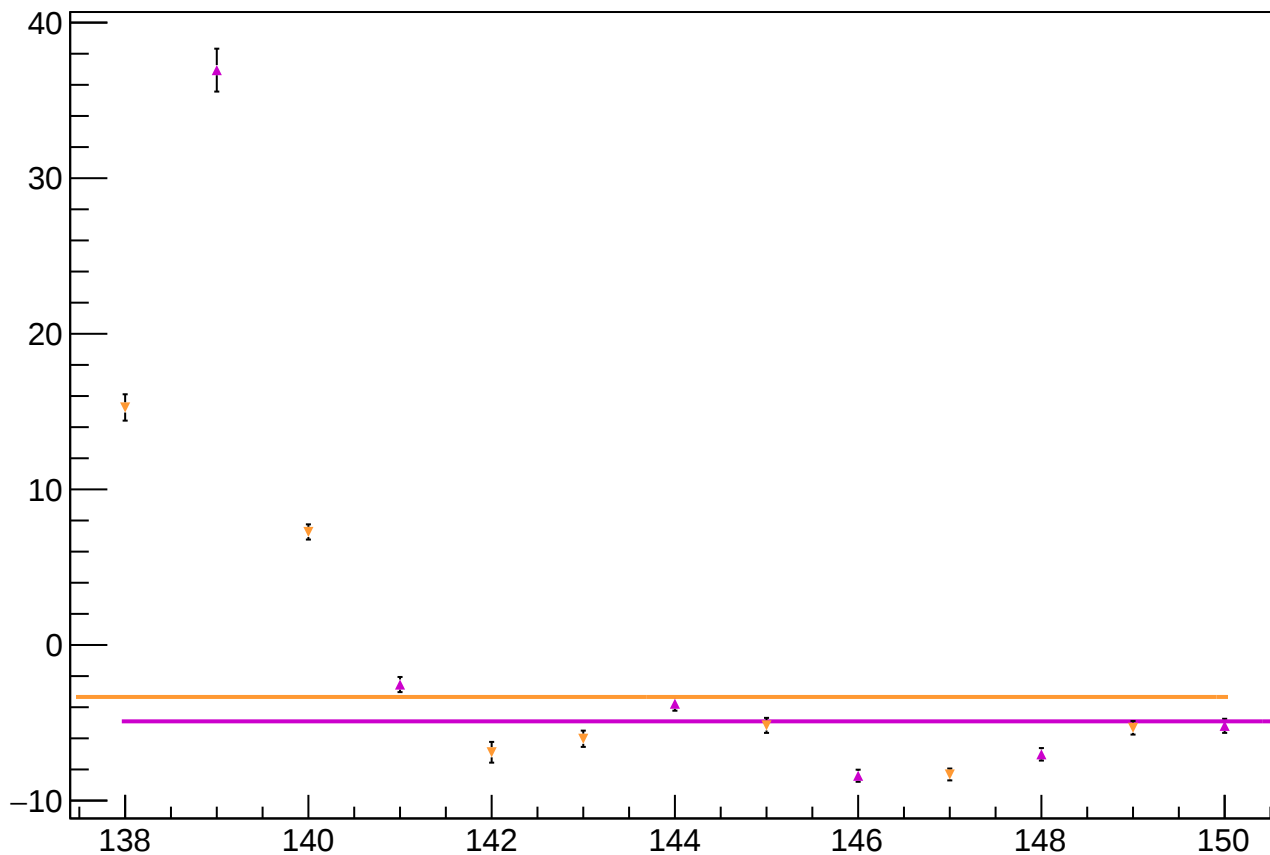
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.919+/-0.279  $\chi^2/\text{NDF}$ :557.4/5

Out: -14.145+/-0.272  $\chi^2/\text{NDF}$ :2169.9/6

All: -11.600+/-0.195  $\chi^2/\text{NDF}$ : 2906.8/12

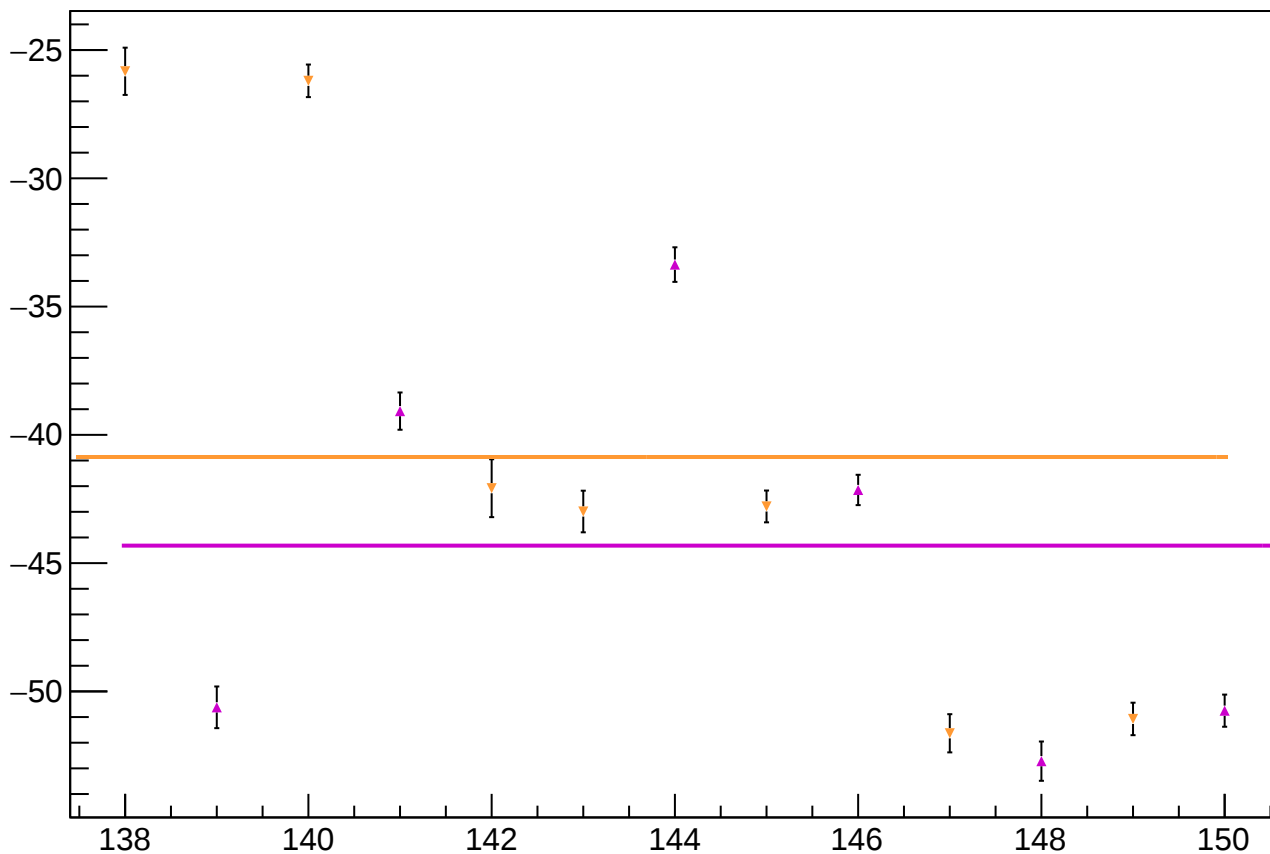
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.340+/-0.189  $\chi^2/\text{NDF}$ :1213.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.908+/-0.191  $\chi^2/\text{NDF}$ :1059.9/5

Left: -4.116+/-0.135  $\chi^2/\text{NDF}$ : 2307.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.908+/-0.191  $\chi^2/\text{NDF}$ :1059.9/5  
 Out: -3.340+/-0.189  $\chi^2/\text{NDF}$ :1213.6/6  
 All: -4.116+/-0.135  $\chi^2/\text{NDF}$ : 2307.4/12

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.863+/-0.279  $\chi^2/\text{NDF}$ :1287.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -44.318+/-0.280  $\chi^2/\text{NDF}$ :615.8/5

Left: -42.581+/-0.198  $\chi^2/\text{NDF}$ : 1979.2/12

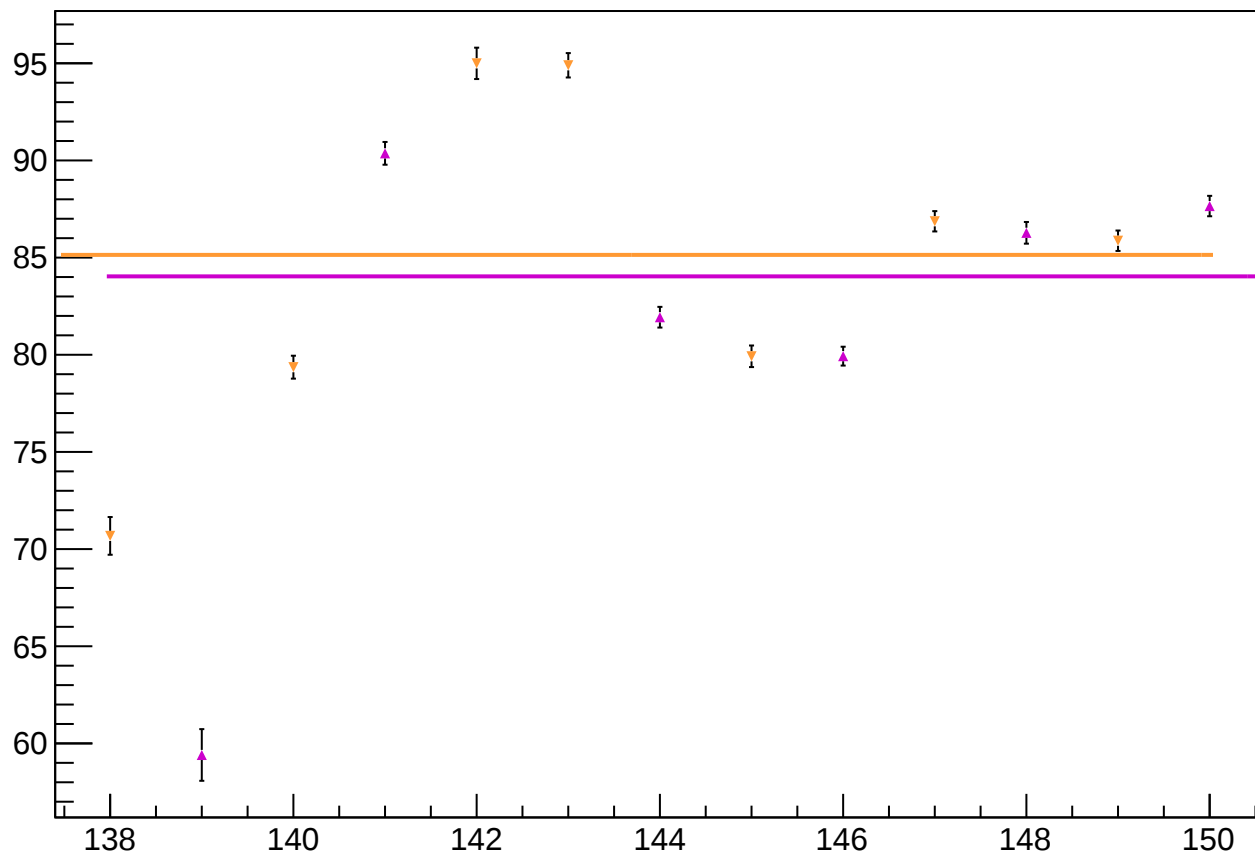
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -44.318+/-0.280  $\chi^2/\text{NDF}$ :615.8/5

Out: -40.863+/-0.279  $\chi^2/\text{NDF}$ :1287.1/6

All: -42.581+/-0.198  $\chi^2/\text{NDF}$ : 1979.2/12

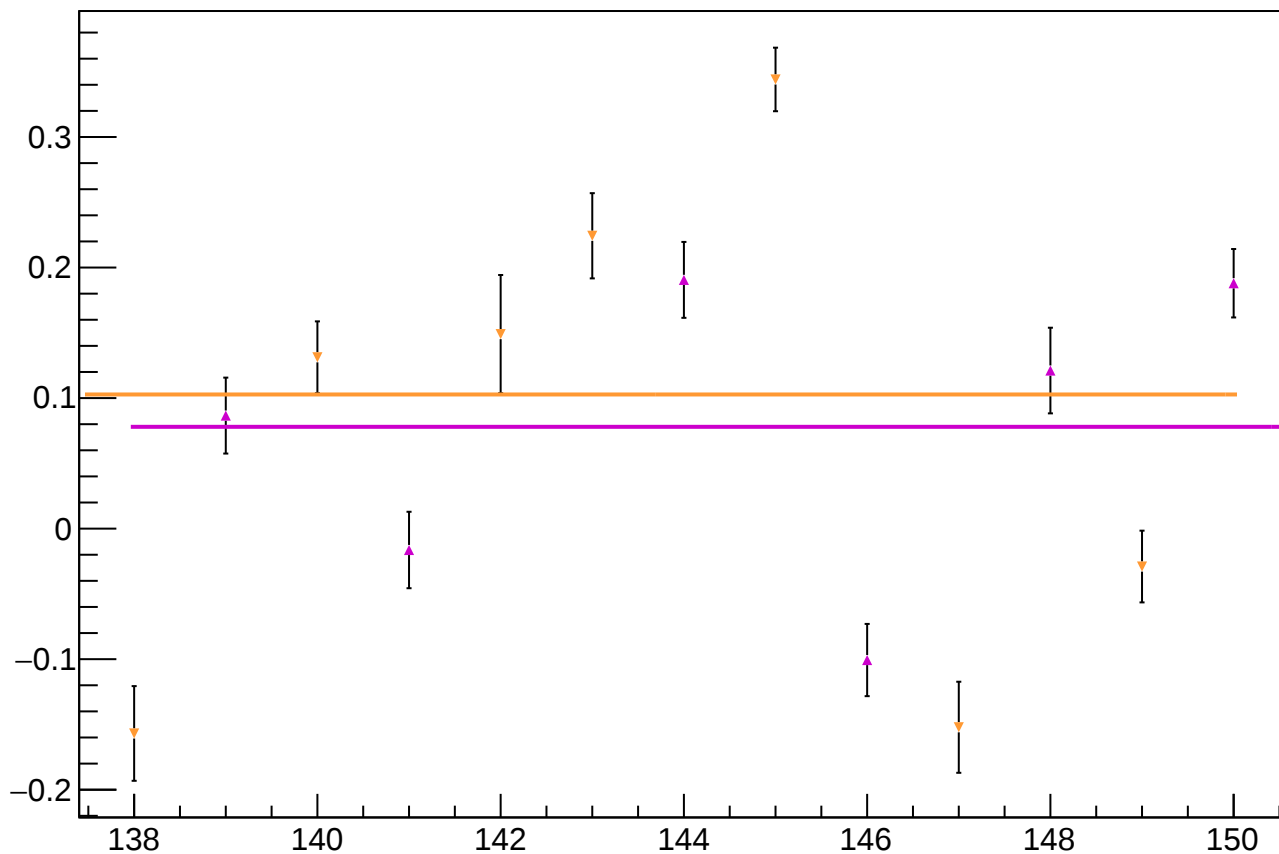
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.140+/-0.232  $\chi^2/\text{NDF}$ : 809.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 84.034+/-0.235  $\chi^2/\text{NDF}$ : 610.9/5

Left: 84.594+/-0.165  $\chi^2/\text{NDF}$ : 1431.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 84.034+/-0.235  $\chi^2/\text{NDF}$ : 610.9/5  
 Out: 85.140+/-0.232  $\chi^2/\text{NDF}$ : 809.9/6  
 All: 84.594+/-0.165  $\chi^2/\text{NDF}$ : 1431.9/12

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: 0.103 $\pm$ 0.012  $\chi^2$ /NDF:242.0/6

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

Left In: 0.078 $\pm$ 0.012  $\chi^2$ /NDF:86.5/5

Left: 0.090 $\pm$ 0.008  $\chi^2$ /NDF: 330.7/12

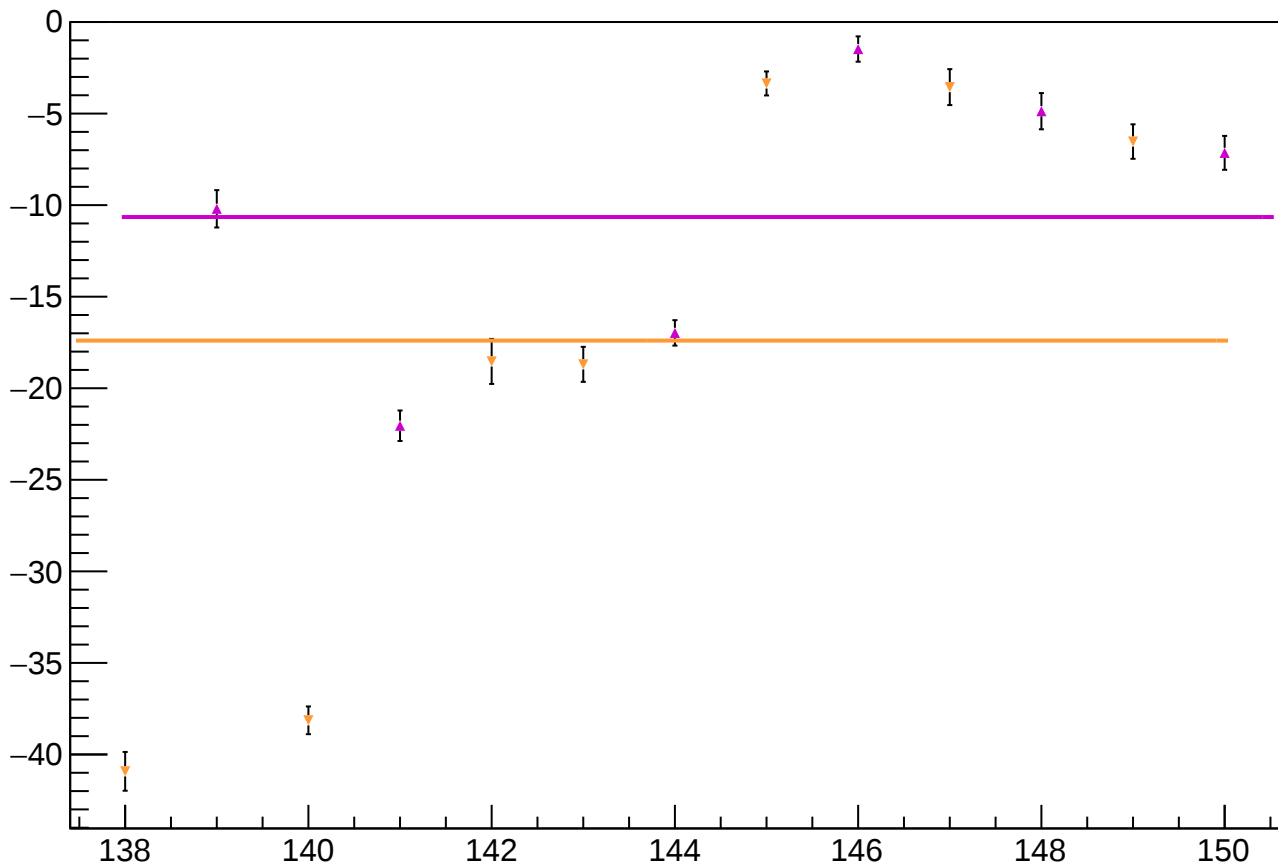
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.078 $\pm$ 0.012  $\chi^2$ /NDF:86.5/5

Out: 0.103 $\pm$ 0.012  $\chi^2$ /NDF:242.0/6

All: 0.090 $\pm$ 0.008  $\chi^2$ /NDF: 330.7/12

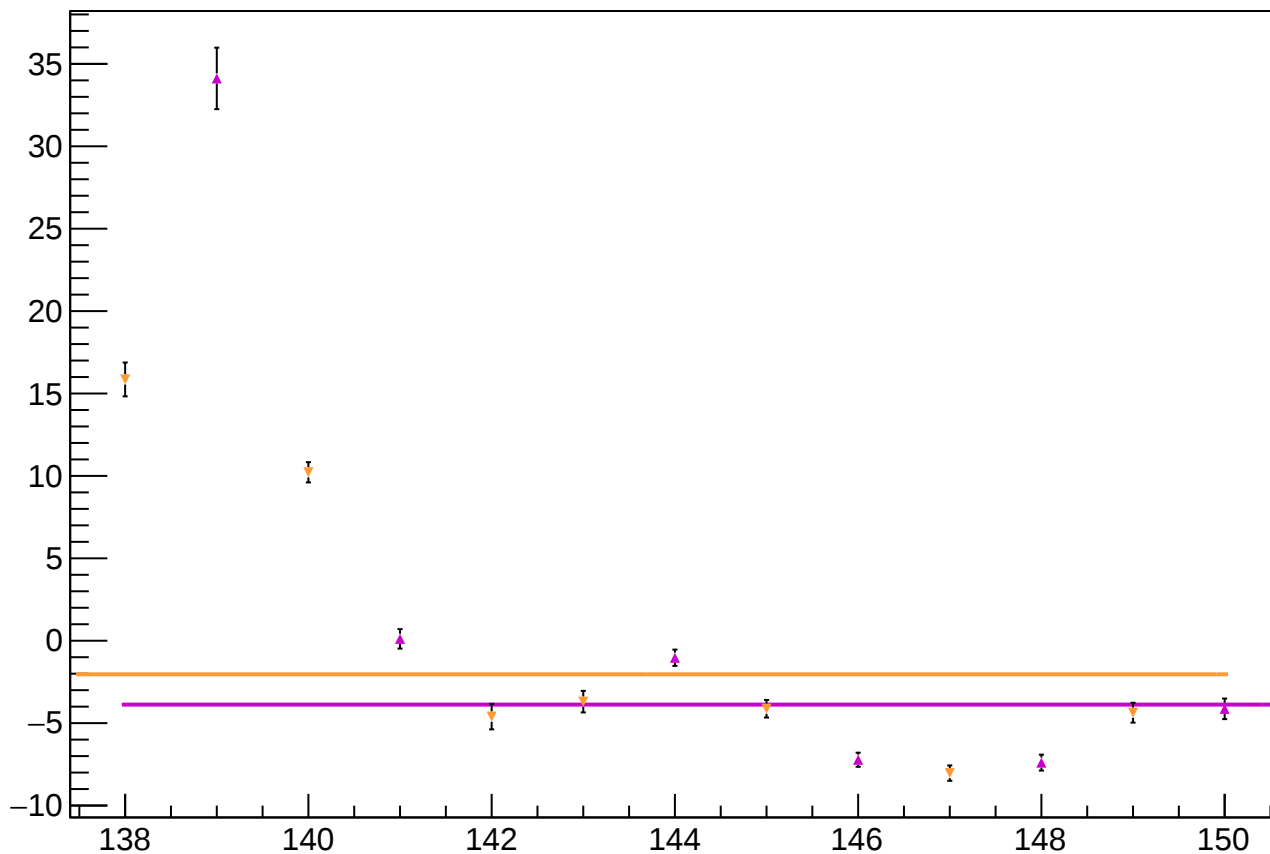
reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -17.397+/-0.335  $\chi^2/\text{NDF}$ :2039.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -10.650+/-0.338  $\chi^2/\text{NDF}$ :494.6/5

Left: -14.050+/-0.238  $\chi^2/\text{NDF}$ : 2734.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -10.650+/-0.338  $\chi^2/\text{NDF}$ :494.6/5  
 Out: -17.397+/-0.335  $\chi^2/\text{NDF}$ :2039.2/6  
 All: -14.050+/-0.238  $\chi^2/\text{NDF}$ : 2734.6/12

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



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

Left Out: -2.038+/-0.233  $\chi^2/\text{NDF}$ : 914.0/6

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

Left In: -3.875+/-0.226  $\chi^2/\text{NDF}$ : 607.8/5

Left: -2.983+/-0.162  $\chi^2/\text{NDF}$ : 1553.9/12

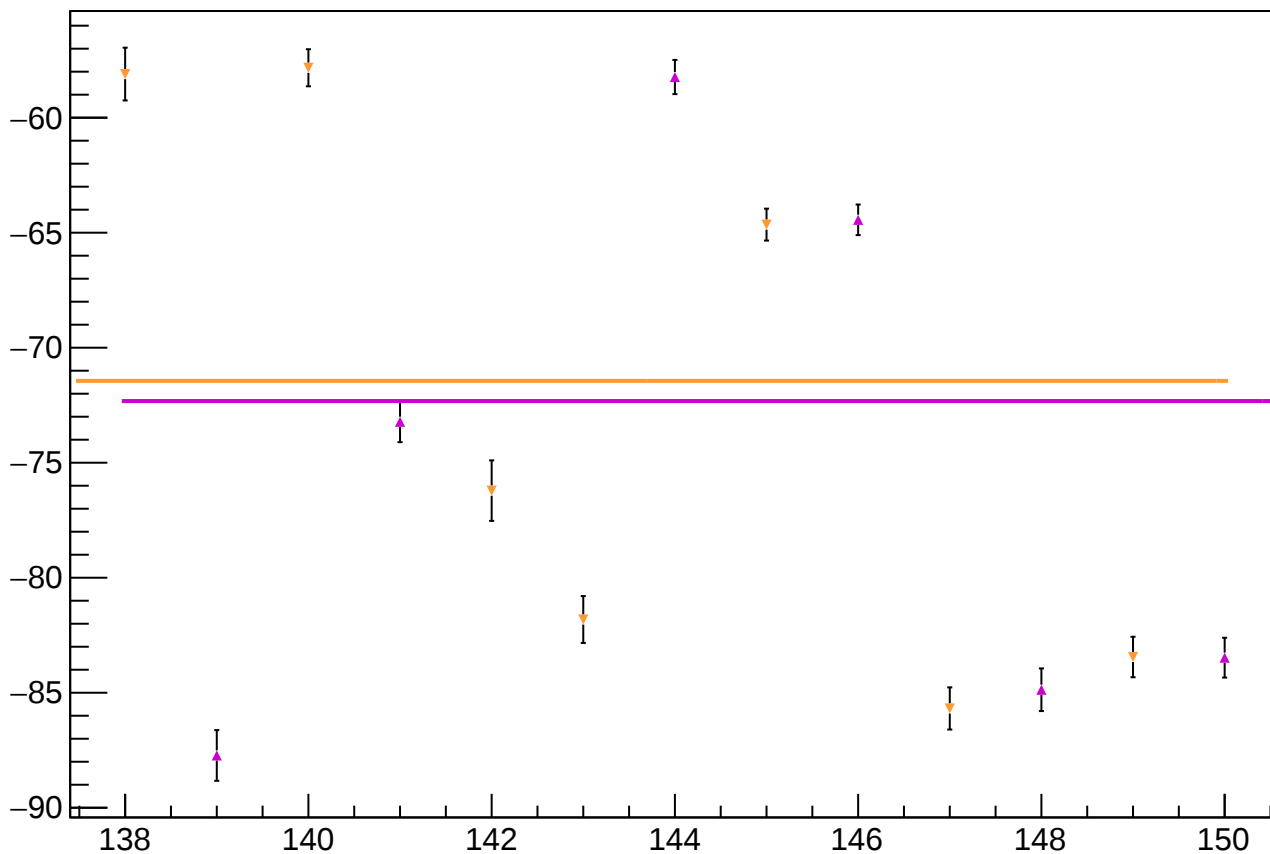
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.875+/-0.226  $\chi^2/\text{NDF}$ : 607.8/5

Out: -2.038+/-0.233  $\chi^2/\text{NDF}$ : 914.0/6

All: -2.983+/-0.162  $\chi^2/\text{NDF}$ : 1553.9/12

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: -71.441+/-0.345  $\chi^2/\text{NDF}$ :1060.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -72.319+/-0.340  $\chi^2/\text{NDF}$ :1044.9/5

Left: -71.887+/-0.242  $\chi^2/\text{NDF}$ : 2108.5/12

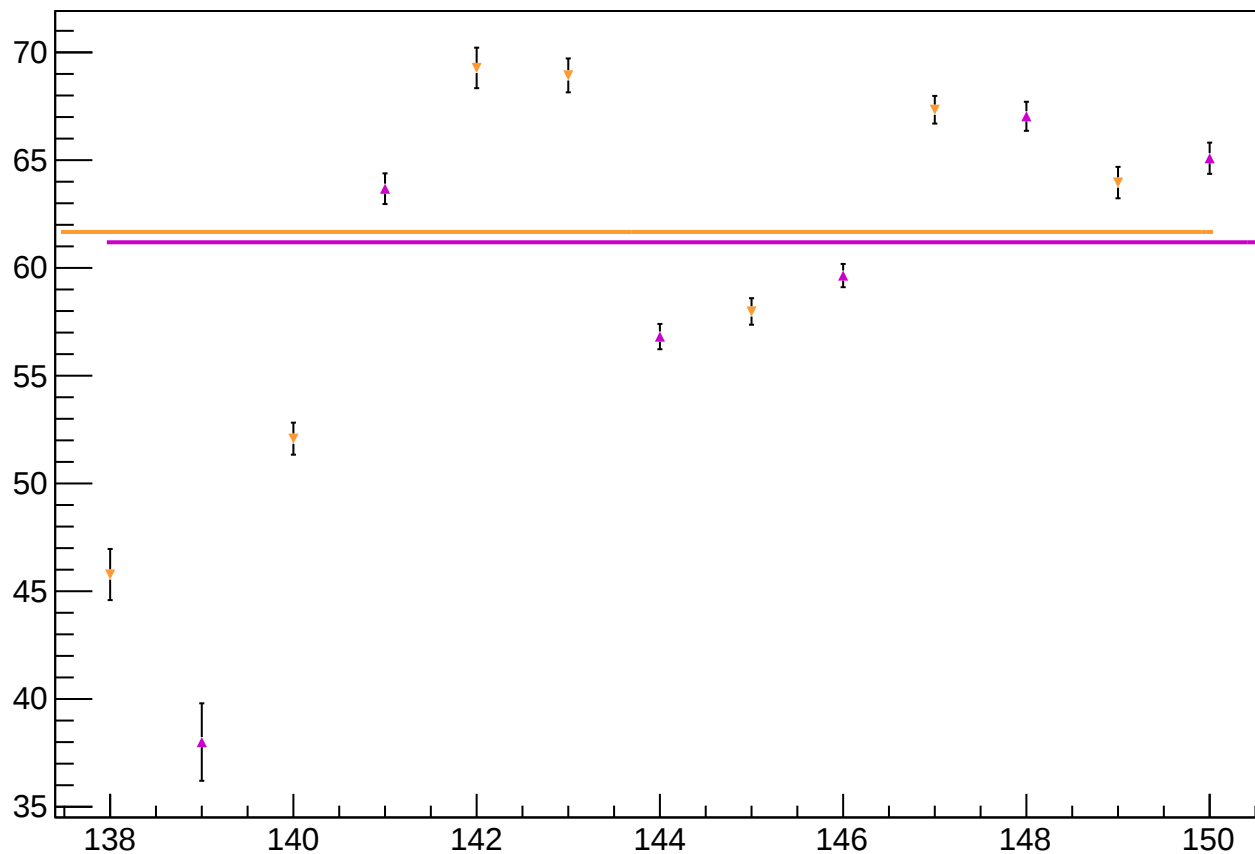
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -72.319+/-0.340  $\chi^2/\text{NDF}$ :1044.9/5

Out: -71.441+/-0.345  $\chi^2/\text{NDF}$ :1060.3/6

All: -71.887+/-0.242  $\chi^2/\text{NDF}$ : 2108.5/12

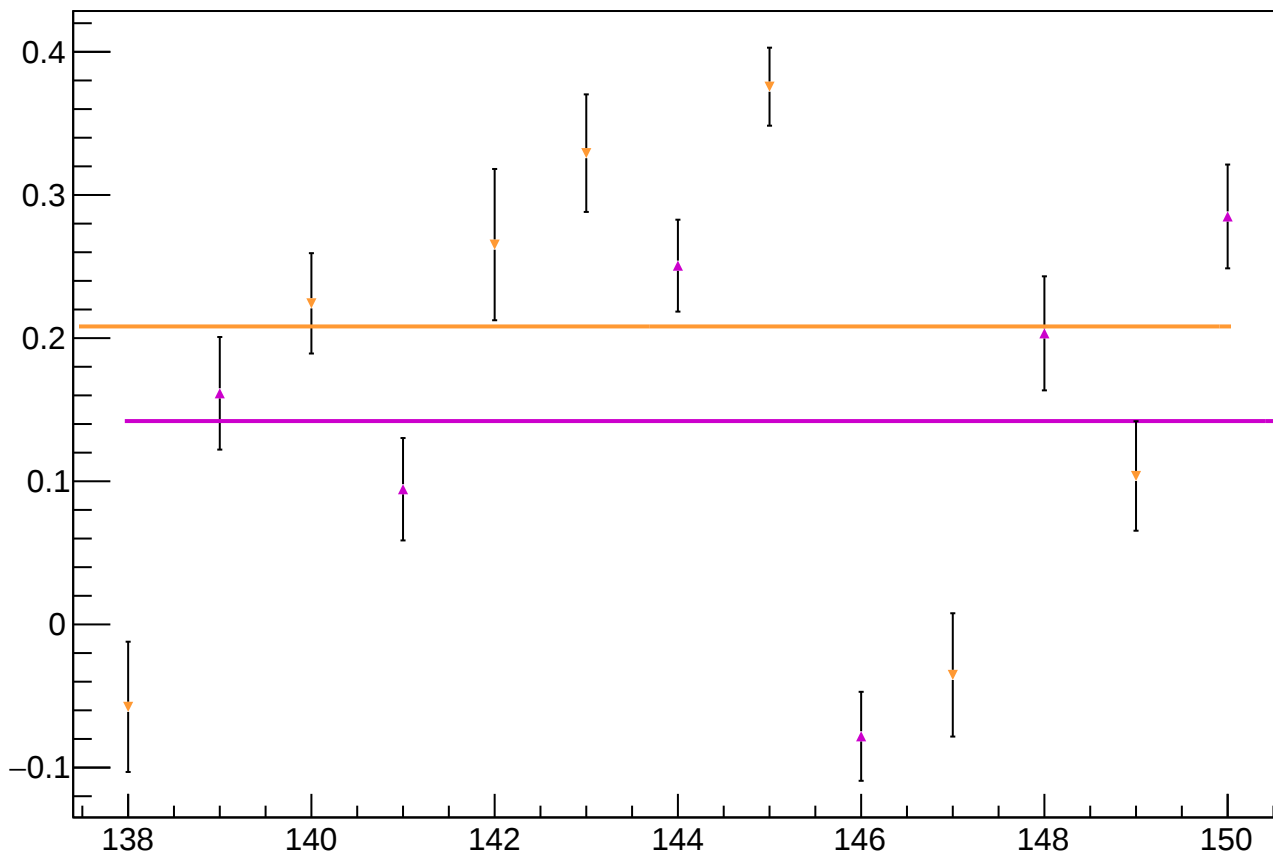
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 61.668 $\pm$ 0.286  $\chi^2$ /NDF:621.0/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 61.190 $\pm$ 0.280  $\chi^2$ /NDF:346.6/5

Left: 61.424 $\pm$ 0.200  $\chi^2$ /NDF: 969.1/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 61.190 $\pm$ 0.280  $\chi^2$ /NDF:346.6/5  
 Out: 61.668 $\pm$ 0.286  $\chi^2$ /NDF:621.0/6  
 All: 61.424 $\pm$ 0.200  $\chi^2$ /NDF: 969.1/12

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



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

Left Out: 0.208 $\pm$ 0.014  $\chi^2$ /NDF:121.4/6

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

Left In: 0.142 $\pm$ 0.014  $\chi^2$ /NDF:81.6/5

Left: 0.175 $\pm$ 0.010  $\chi^2$ /NDF: 213.5/12

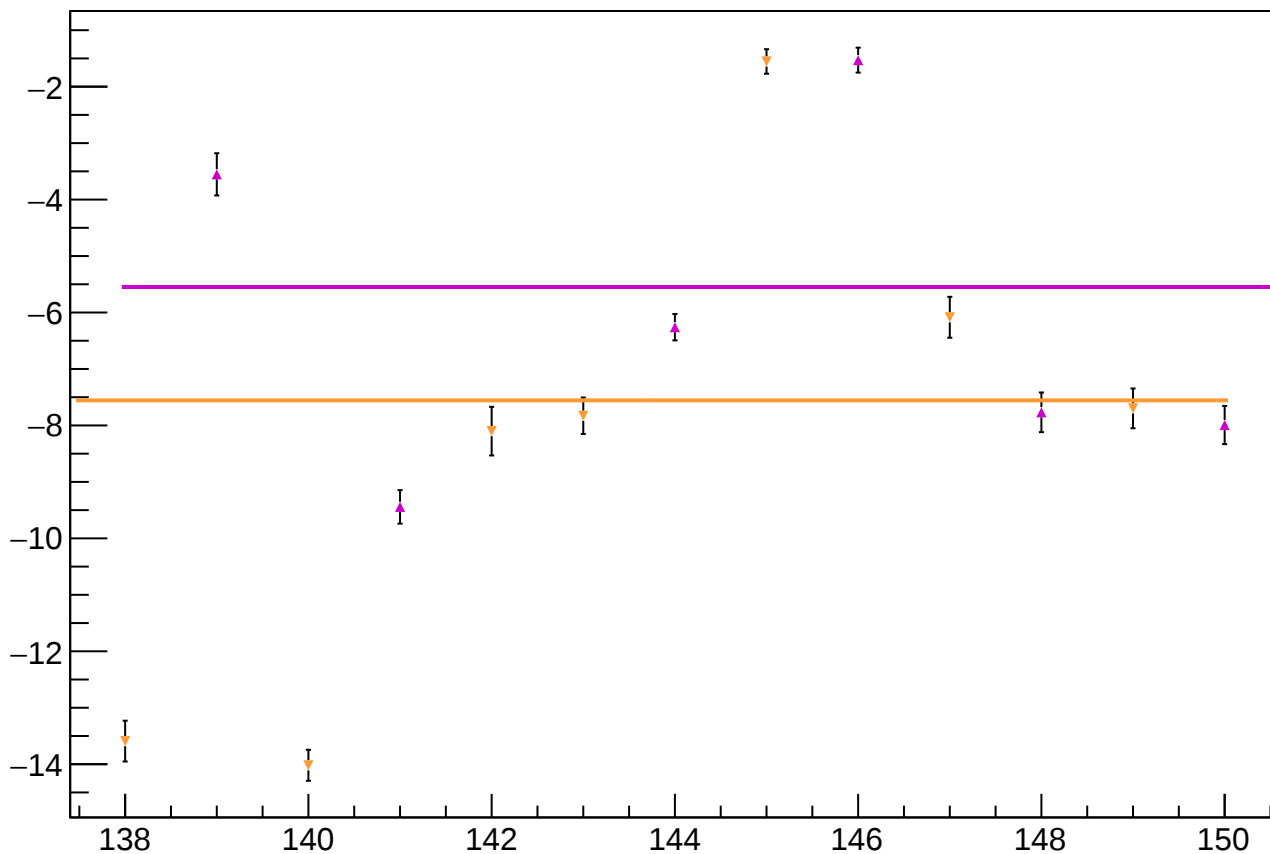
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.142 $\pm$ 0.014  $\chi^2$ /NDF:81.6/5

Out: 0.208 $\pm$ 0.014  $\chi^2$ /NDF:121.4/6

All: 0.175 $\pm$ 0.010  $\chi^2$ /NDF: 213.5/12

reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



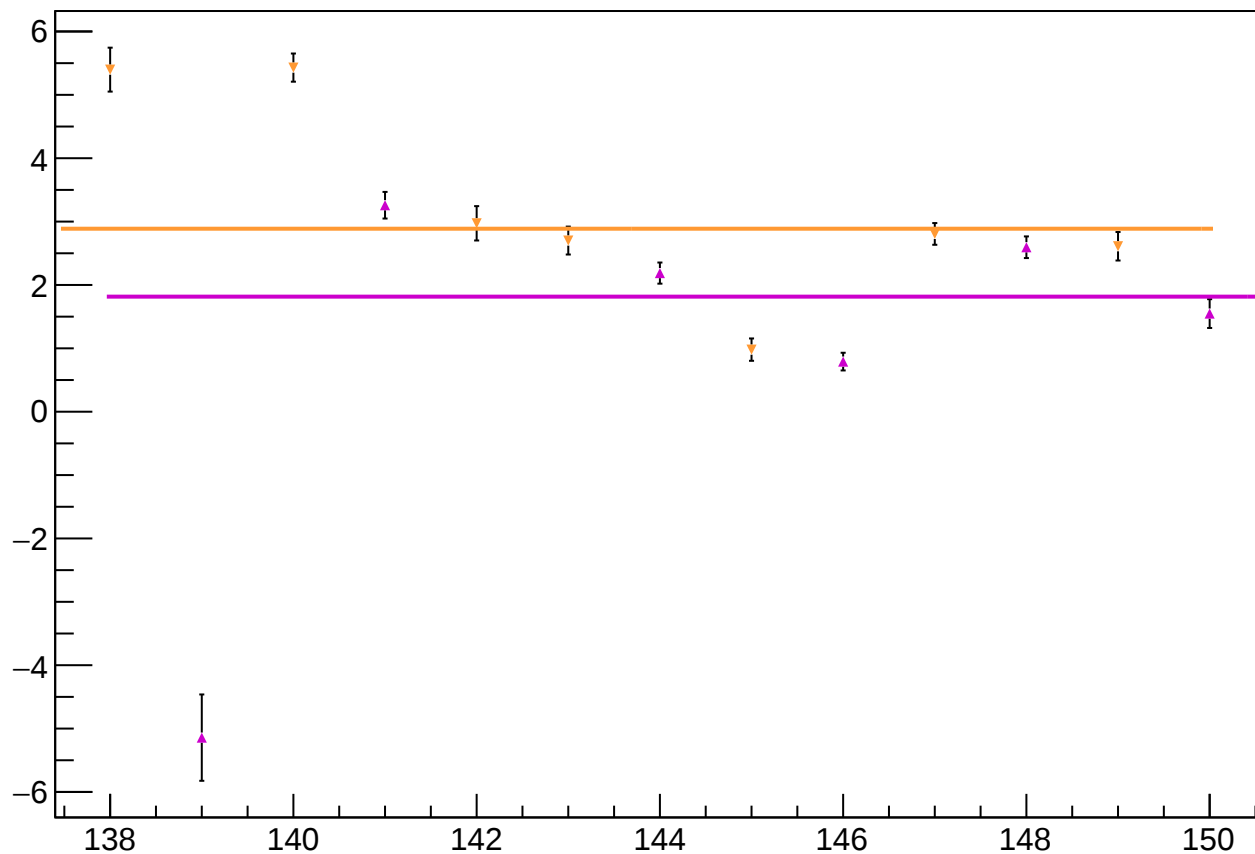
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.556+/-0.117  $\chi^2/\text{NDF}$ :1616.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.548+/-0.116  $\chi^2/\text{NDF}$ :632.8/5

Left: -6.543+/-0.082  $\chi^2/\text{NDF}$ : 2397.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.548+/-0.116  $\chi^2/\text{NDF}$ :632.8/5  
 Out: -7.556+/-0.117  $\chi^2/\text{NDF}$ :1616.5/6

All: -6.543+/-0.082  $\chi^2/\text{NDF}$ : 2397.4/12

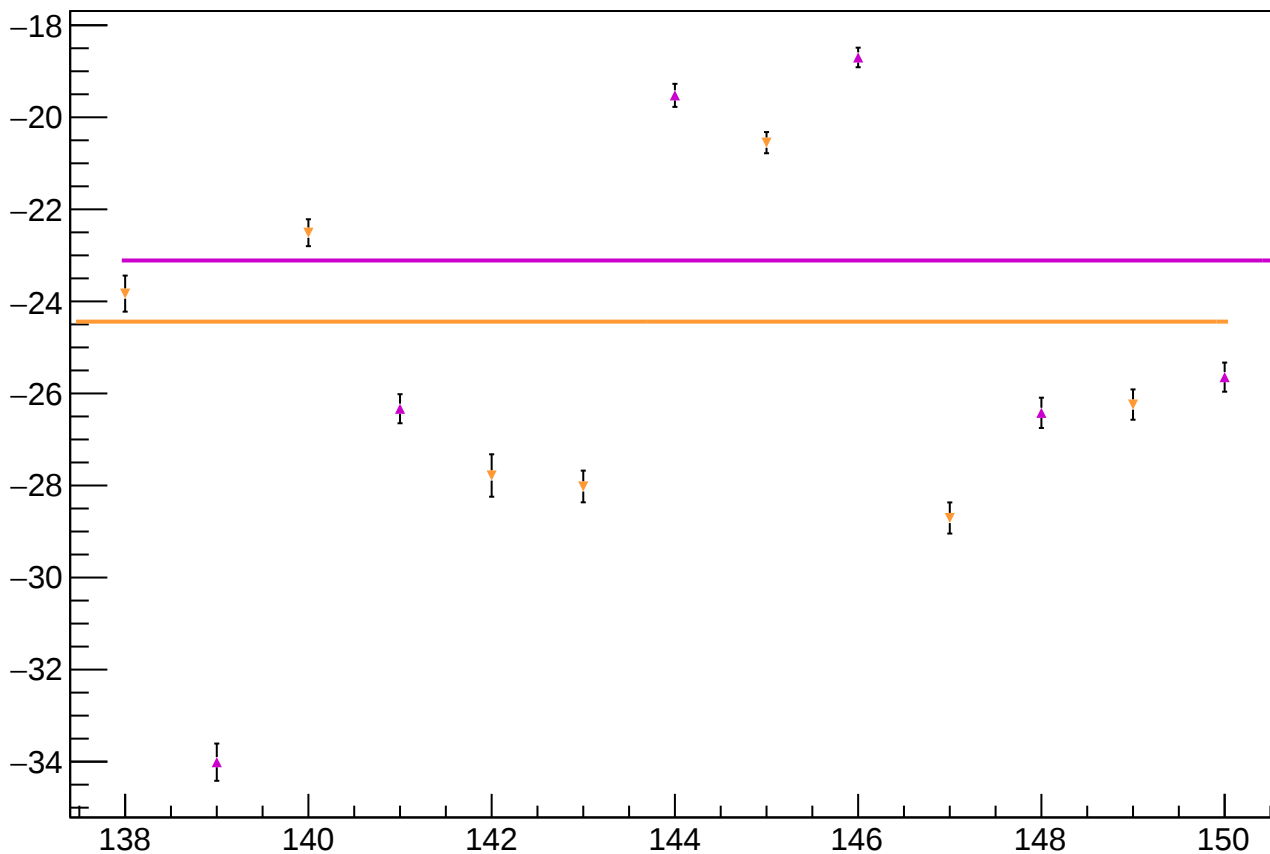
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.888+/-0.082     $\chi^2/\text{NDF}$ :302.9/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.816+/-0.078     $\chi^2/\text{NDF}$ :232.6/5

Left: 2.323+/-0.056     $\chi^2/\text{NDF}$ : 625.6/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.816+/-0.078     $\chi^2/\text{NDF}$ :232.6/5  
 Out: 2.888+/-0.082     $\chi^2/\text{NDF}$ :302.9/6  
 All: 2.323+/-0.056     $\chi^2/\text{NDF}$ : 625.6/12

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: -24.439+/-0.121  $\chi^2/\text{NDF}$ :680.9/6

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

Left In: -23.111+/-0.117  $\chi^2/\text{NDF}$ :1631.5/5

Left: -23.750+/-0.084  $\chi^2/\text{NDF}$ : 2374.8/12

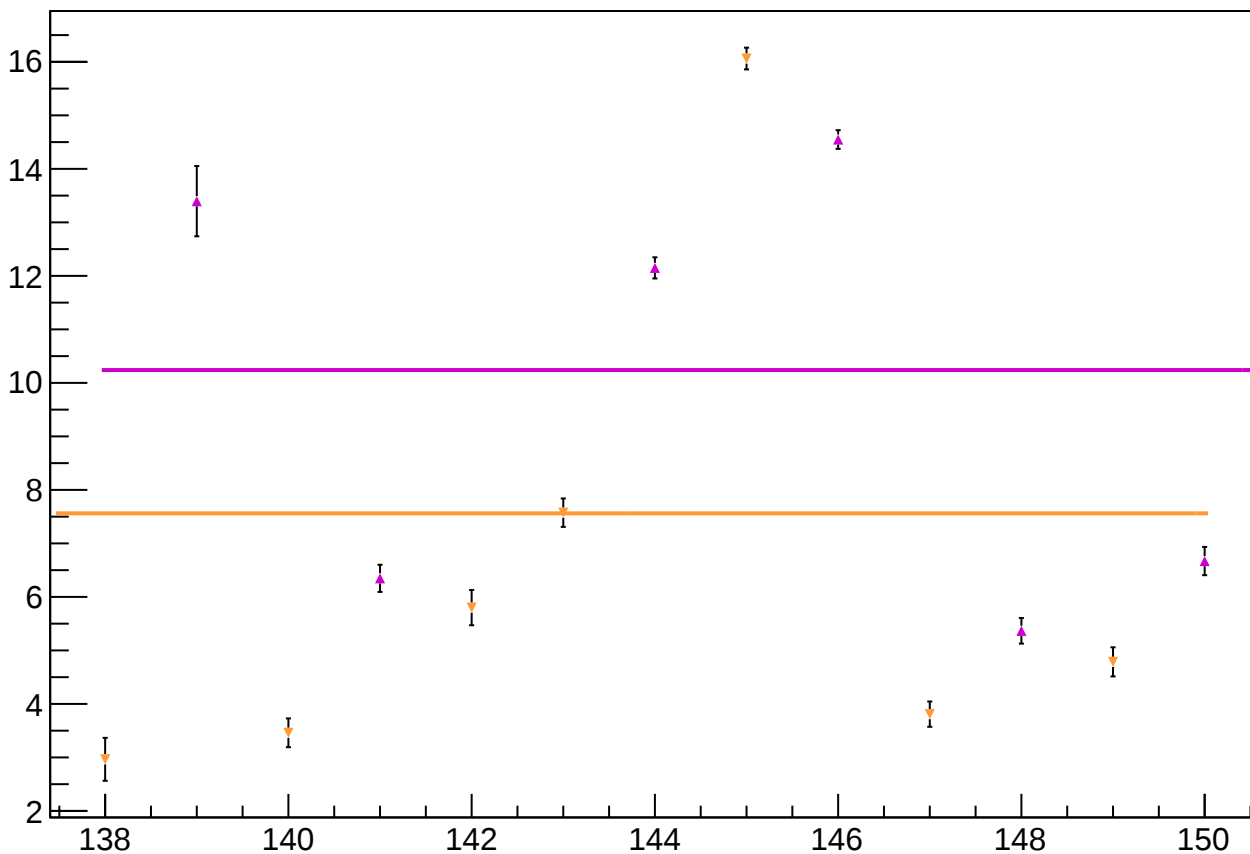
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -23.111+/-0.117  $\chi^2/\text{NDF}$ :1631.5/5

Out: -24.439+/-0.121  $\chi^2/\text{NDF}$ :680.9/6

All: -23.750+/-0.084  $\chi^2/\text{NDF}$ : 2374.8/12

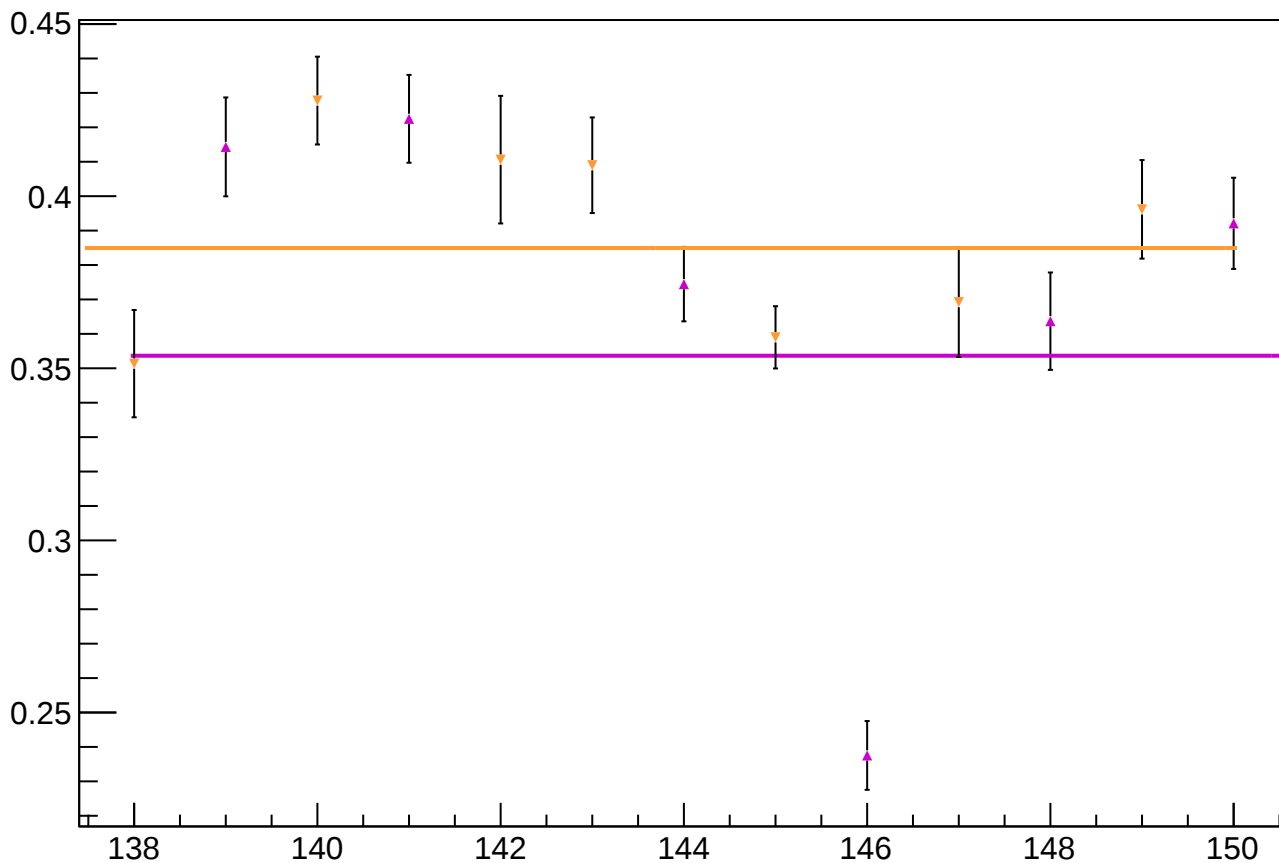
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.562+/-0.100  $\chi^2/\text{NDF}$ :2497.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.240+/-0.096  $\chi^2/\text{NDF}$ :1557.6/5

Left: 8.959+/-0.069  $\chi^2/\text{NDF}$ : 4425.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.240+/-0.096  $\chi^2/\text{NDF}$ :1557.6/5  
 Out: 7.562+/-0.100  $\chi^2/\text{NDF}$ :2497.6/6  
 All: 8.959+/-0.069  $\chi^2/\text{NDF}$ : 4425.7/12

reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



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

Left Out: 0.385+/-0.005  $\chi^2/\text{NDF}$ :30.7/6

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

Left In: 0.354+/-0.005  $\chi^2/\text{NDF}$ :194.7/5

Left: 0.369+/-0.004  $\chi^2/\text{NDF}$ : 244.9/12

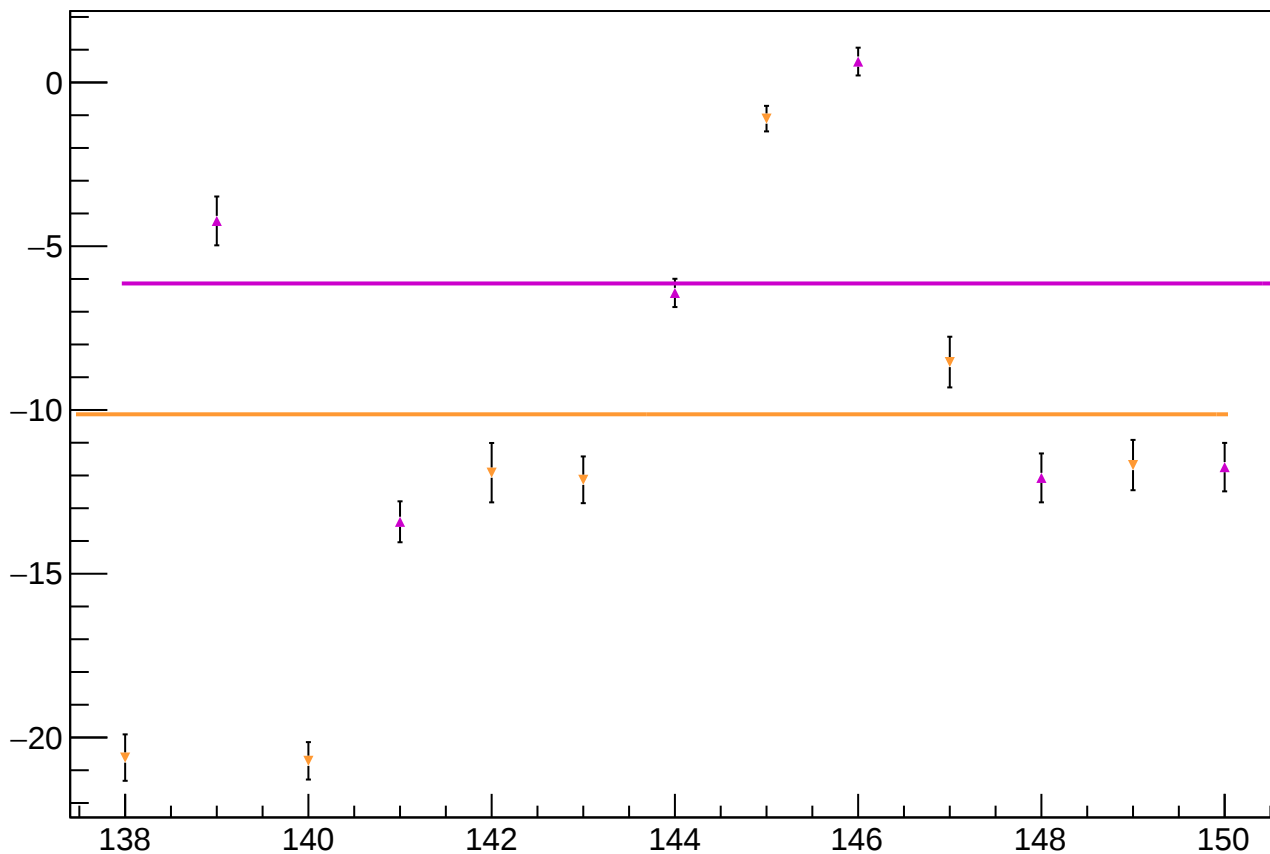
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.354+/-0.005  $\chi^2/\text{NDF}$ :194.7/5

Out: 0.385+/-0.005  $\chi^2/\text{NDF}$ :30.7/6

All: 0.369+/-0.004  $\chi^2/\text{NDF}$ : 244.9/12

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: -10.132+/-0.235  $\chi^2/\text{NDF}$ :1117.3/6

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

Left In: -6.137+/-0.230  $\chi^2/\text{NDF}$ :518.4/5

Left: -8.095+/-0.164  $\chi^2/\text{NDF}$ : 1783.6/12

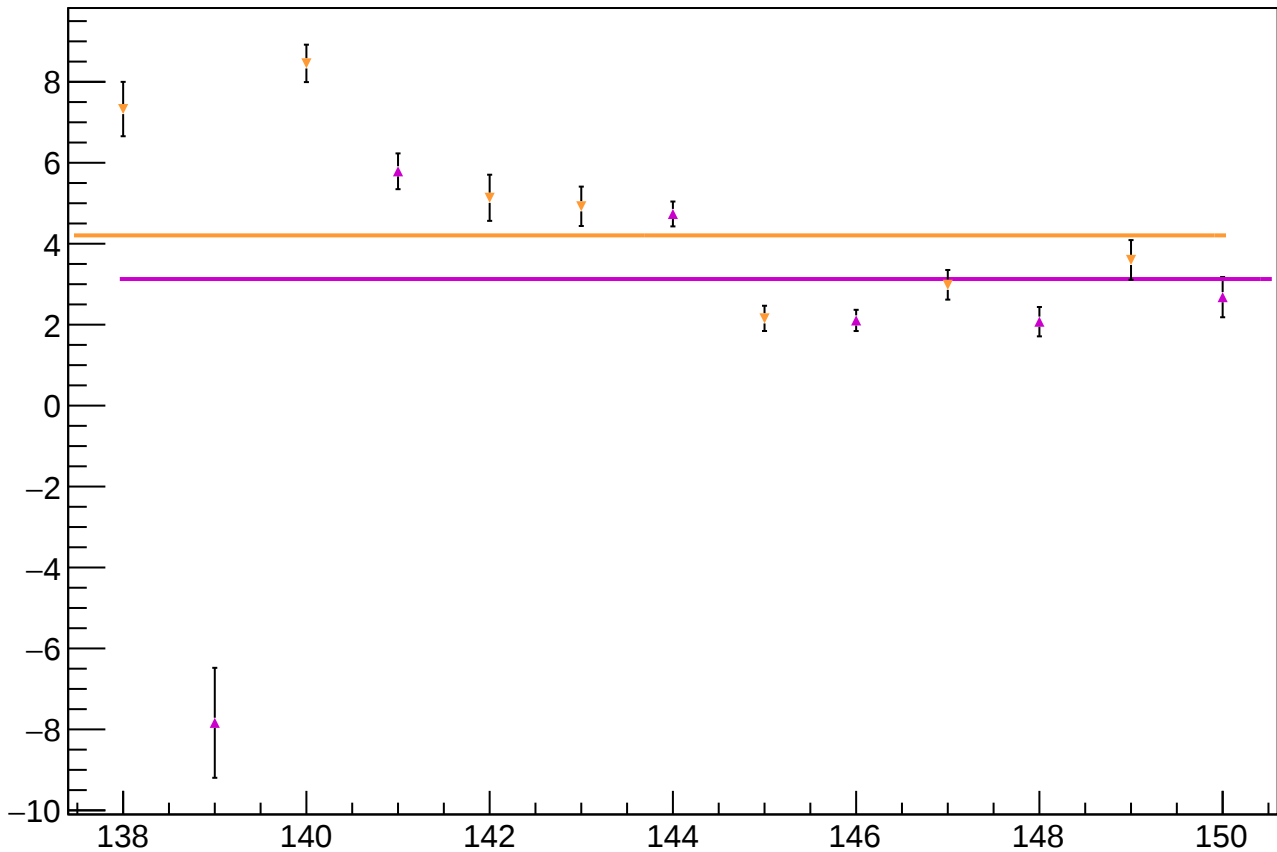
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.137+/-0.230  $\chi^2/\text{NDF}$ :518.4/5

Out: -10.132+/-0.235  $\chi^2/\text{NDF}$ :1117.3/6

All: -8.095+/-0.164  $\chi^2/\text{NDF}$ : 1783.6/12

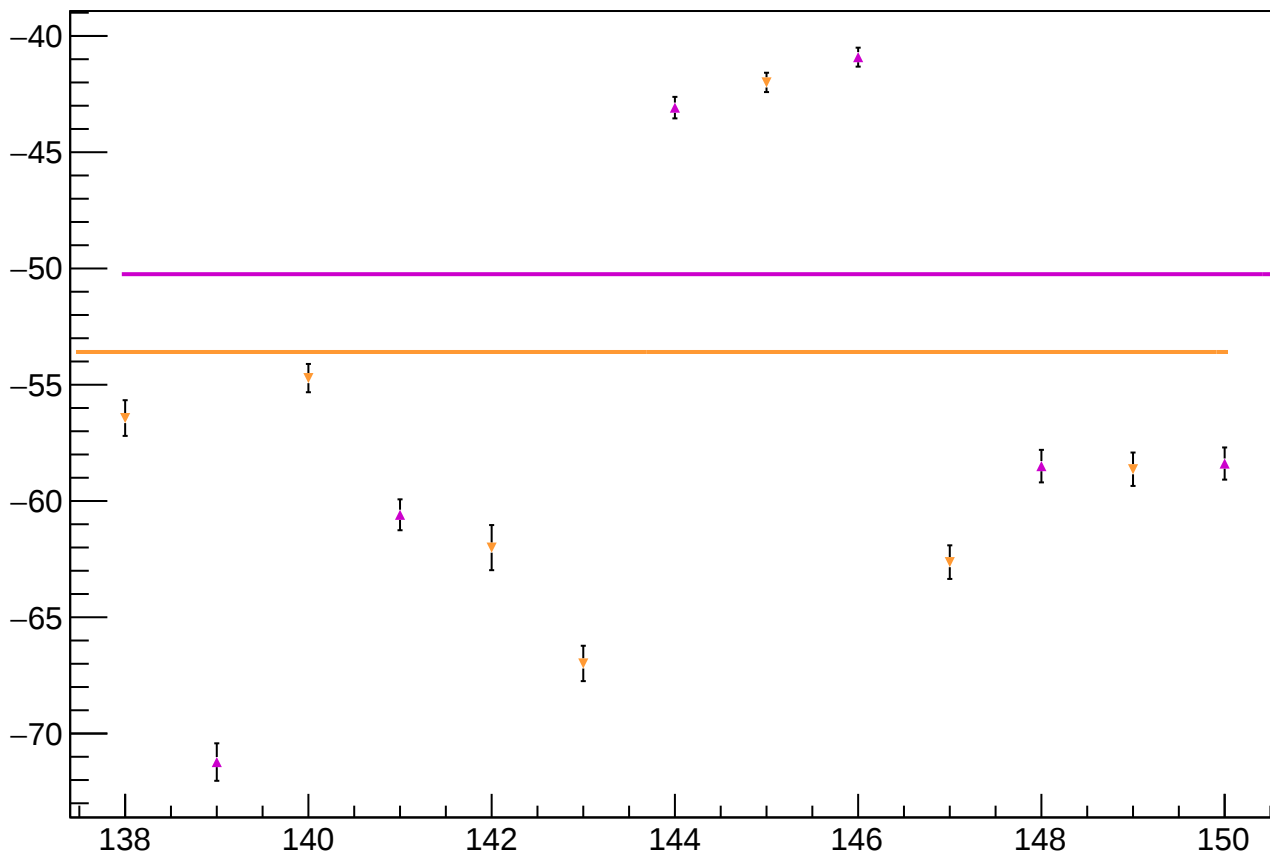
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.206 $\pm$ 0.166  $\chi^2$ /NDF:166.7/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.128 $\pm$ 0.153  $\chi^2$ /NDF:153.3/5

Left: 3.623 $\pm$ 0.113  $\chi^2$ /NDF: 342.7/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.128 $\pm$ 0.153  $\chi^2$ /NDF:153.3/5  
 Out: 4.206 $\pm$ 0.166  $\chi^2$ /NDF:166.7/6  
 All: 3.623 $\pm$ 0.113  $\chi^2$ /NDF: 342.7/12

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



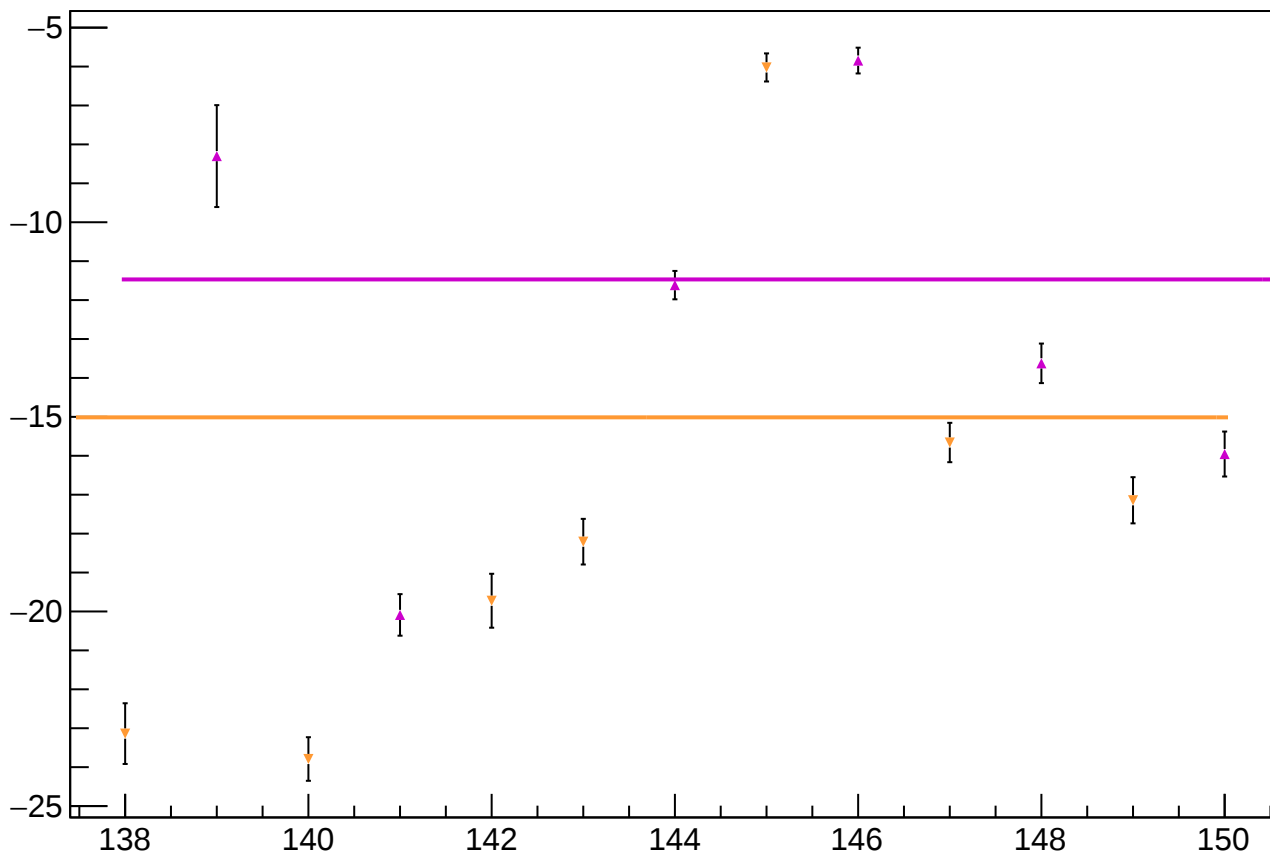
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -53.591+/-0.244  $\chi^2/\text{NDF}$ :1385.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -50.245+/-0.232  $\chi^2/\text{NDF}$ :1961.7/5

Left: -51.833+/-0.168  $\chi^2/\text{NDF}$ : 3445.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -50.245+/-0.232  $\chi^2/\text{NDF}$ :1961.7/5  
 Out: -53.591+/-0.244  $\chi^2/\text{NDF}$ :1385.2/6

All: -51.833+/-0.168  $\chi^2/\text{NDF}$ : 3445.9/12

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: -15.013+/-0.203  $\chi^2/\text{NDF}$ :1065.4/6

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

Left In: -11.469+/-0.190  $\chi^2/\text{NDF}$ :633.3/5

Left: -13.127+/-0.139  $\chi^2/\text{NDF}$ : 1860.7/12

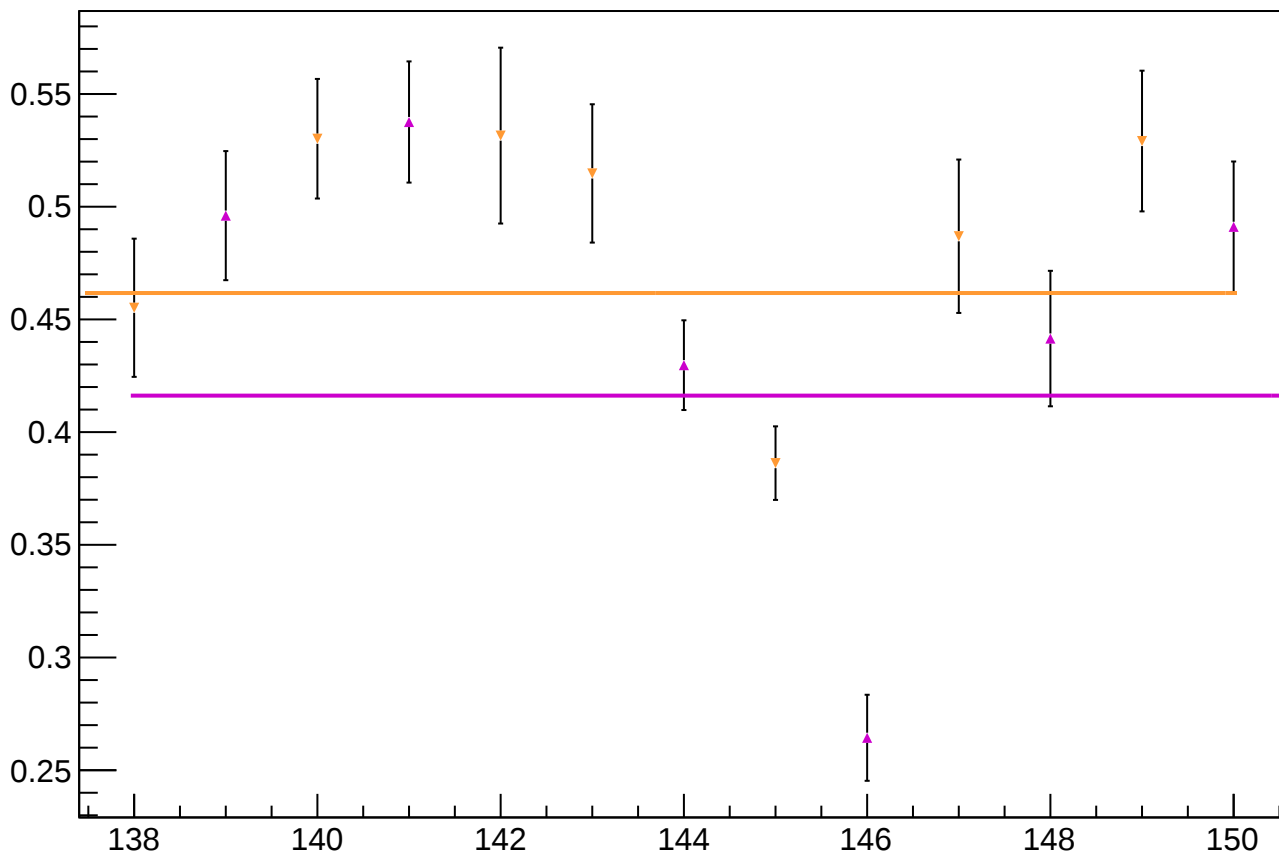
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.469+/-0.190  $\chi^2/\text{NDF}$ :633.3/5

Out: -15.013+/-0.203  $\chi^2/\text{NDF}$ :1065.4/6

All: -13.127+/-0.139  $\chi^2/\text{NDF}$ : 1860.7/12

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: 0.462 $\pm$ 0.010  $\chi^2$ /NDF:39.5/6

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

Left In: 0.416 $\pm$ 0.010  $\chi^2$ /NDF:99.3/5

Left: 0.439 $\pm$ 0.007  $\chi^2$ /NDF: 149.2/12

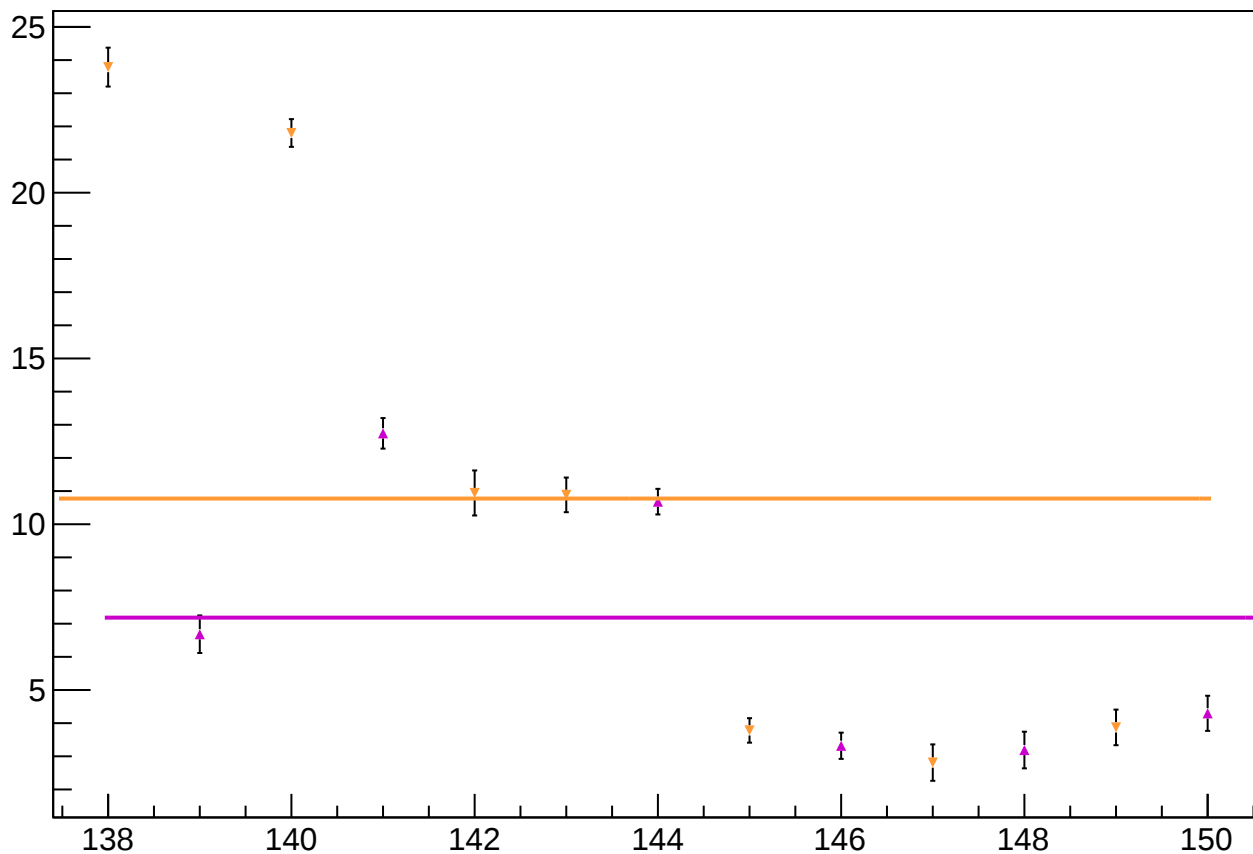
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.416 $\pm$ 0.010  $\chi^2$ /NDF:99.3/5

Out: 0.462 $\pm$ 0.010  $\chi^2$ /NDF:39.5/6

All: 0.439 $\pm$ 0.007  $\chi^2$ /NDF: 149.2/12

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 10.774+/-0.187  $\chi^2/\text{NDF}$ :1921.0/6

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

Left In: 7.183+/-0.190  $\chi^2/\text{NDF}$ :405.5/5

Left: 9.005+/-0.133  $\chi^2/\text{NDF}$ : 2508.0/12

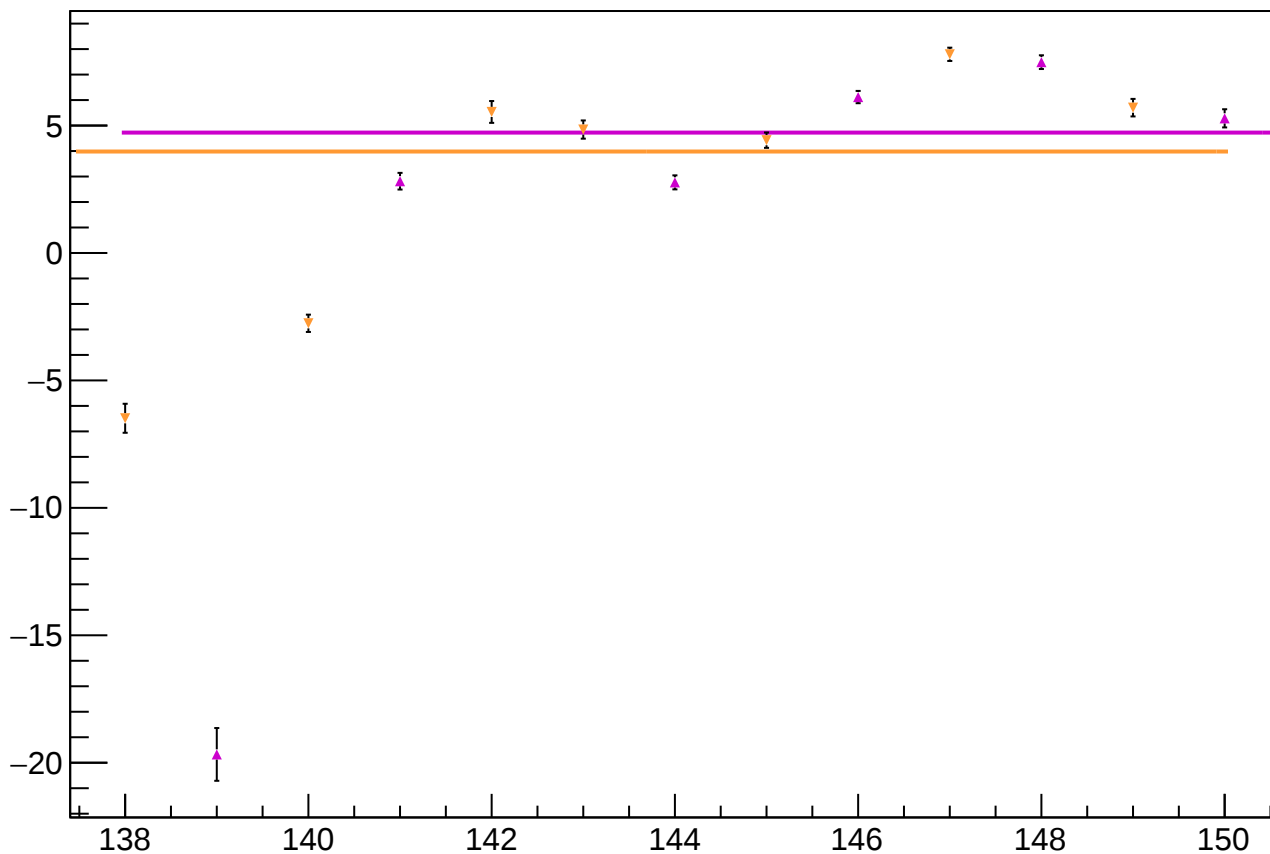
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 7.183+/-0.190  $\chi^2/\text{NDF}$ :405.5/5

Out: 10.774+/-0.187  $\chi^2/\text{NDF}$ :1921.0/6

All: 9.005+/-0.133  $\chi^2/\text{NDF}$ : 2508.0/12

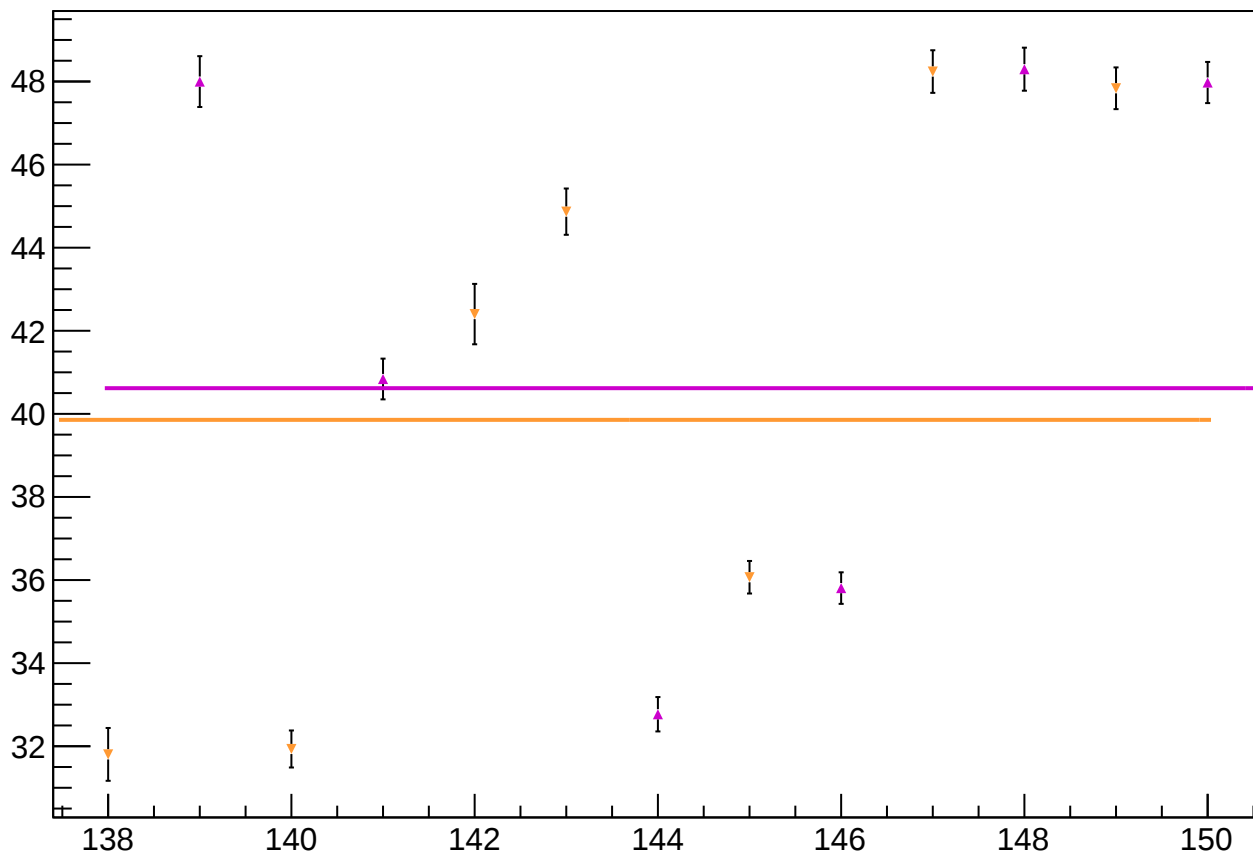
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.981+/-0.130  $\chi^2/\text{NDF}$ :992.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.724+/-0.127  $\chi^2/\text{NDF}$ :780.8/5

Left: 4.362+/-0.091  $\chi^2/\text{NDF}$ : 1789.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.724+/-0.127  $\chi^2/\text{NDF}$ :780.8/5  
 Out: 3.981+/-0.130  $\chi^2/\text{NDF}$ :992.2/6  
 All: 4.362+/-0.091  $\chi^2/\text{NDF}$ : 1789.8/12

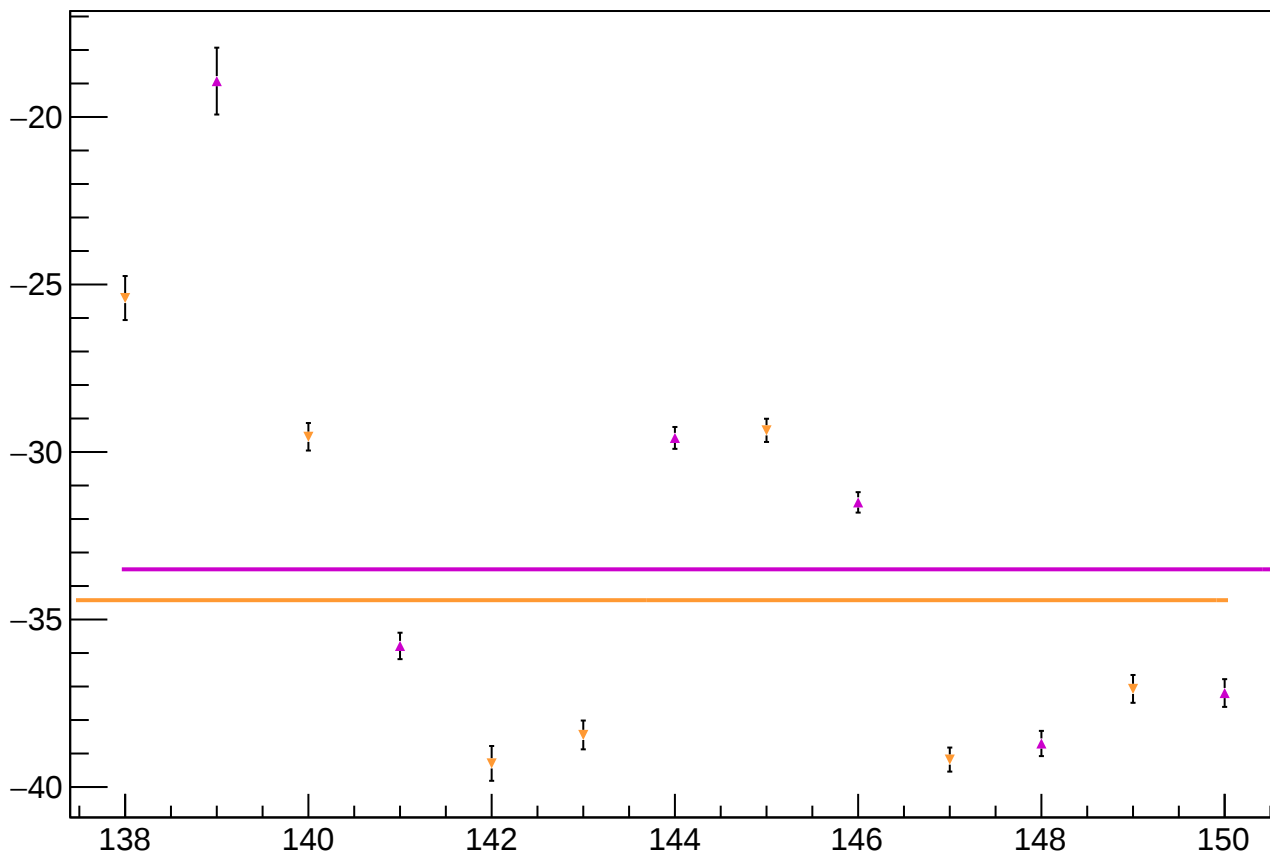
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 39.856 $\pm$ 0.193  $\chi^2$ /NDF:1183.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 40.618 $\pm$ 0.191  $\chi^2$ /NDF:1106.2/5

Left: 40.241 $\pm$ 0.136  $\chi^2$ /NDF: 2297.5/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 40.618 $\pm$ 0.191  $\chi^2$ /NDF:1106.2/5  
 Out: 39.856 $\pm$ 0.193  $\chi^2$ /NDF:1183.4/6  
 All: 40.241 $\pm$ 0.136  $\chi^2$ /NDF: 2297.5/12

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.423+/-0.160  $\chi^2/\text{NDF}$ : 935.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -33.502+/-0.157  $\chi^2/\text{NDF}$ : 704.5/5

Left: -33.956+/-0.112  $\chi^2/\text{NDF}$ : 1656.8/12

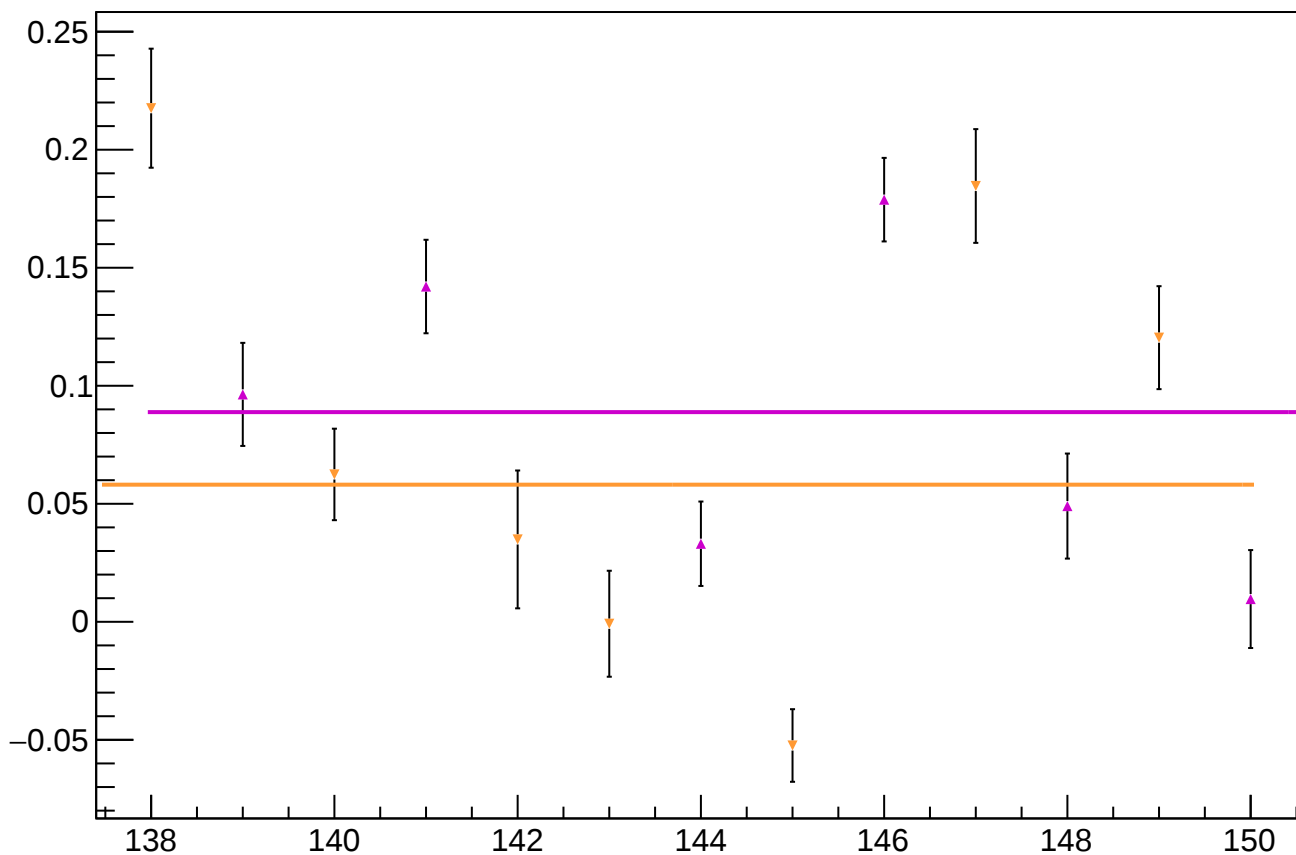
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -33.502+/-0.157  $\chi^2/\text{NDF}$ : 704.5/5

Out: -34.423+/-0.160  $\chi^2/\text{NDF}$ : 935.4/6

All: -33.956+/-0.112  $\chi^2/\text{NDF}$ : 1656.8/12

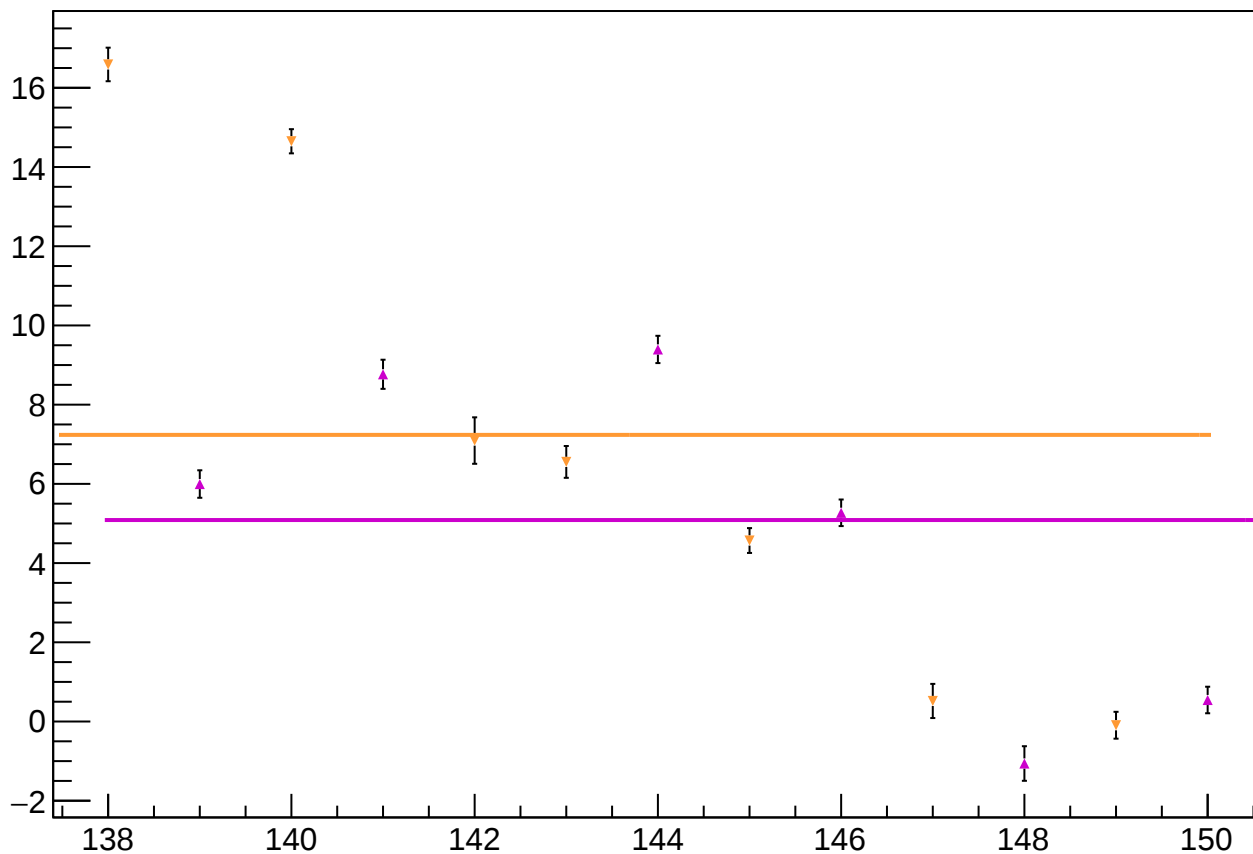
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.058 $\pm$ 0.008  $\chi^2$ /NDF:134.9/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.089 $\pm$ 0.008  $\chi^2$ /NDF:60.7/5

Left: 0.073 $\pm$ 0.006  $\chi^2$ /NDF: 202.9/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.089 $\pm$ 0.008  $\chi^2$ /NDF:60.7/5  
 Out: 0.058 $\pm$ 0.008  $\chi^2$ /NDF:134.9/6  
 All: 0.073 $\pm$ 0.006  $\chi^2$ /NDF: 202.9/12

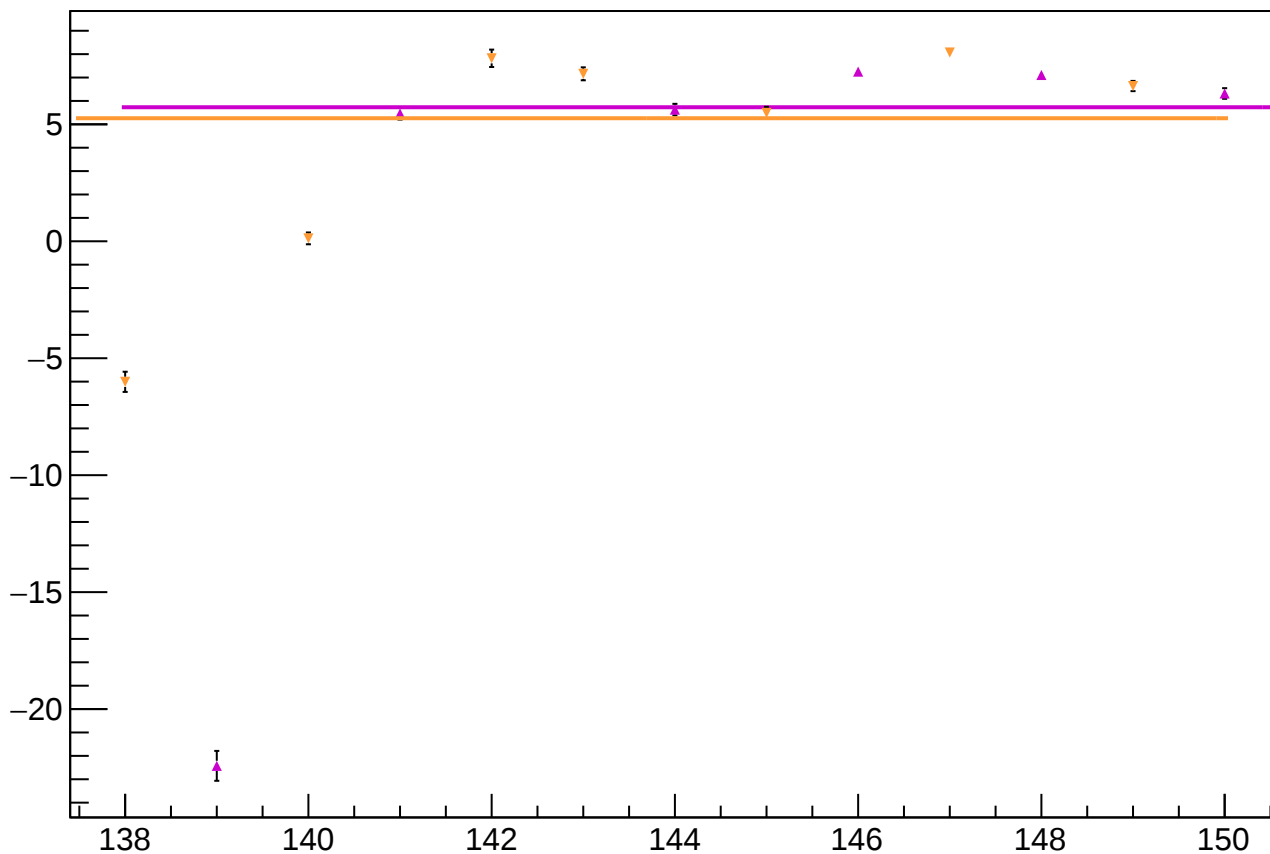
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.237+/-0.142  $\chi^2/\text{NDF}$ :1862.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.087+/-0.146  $\chi^2/\text{NDF}$ :645.8/5

Left: 6.189+/-0.102  $\chi^2/\text{NDF}$ : 2620.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.087+/-0.146  $\chi^2/\text{NDF}$ :645.8/5  
 Out: 7.237+/-0.142  $\chi^2/\text{NDF}$ :1862.5/6  
 All: 6.189+/-0.102  $\chi^2/\text{NDF}$ : 2620.0/12

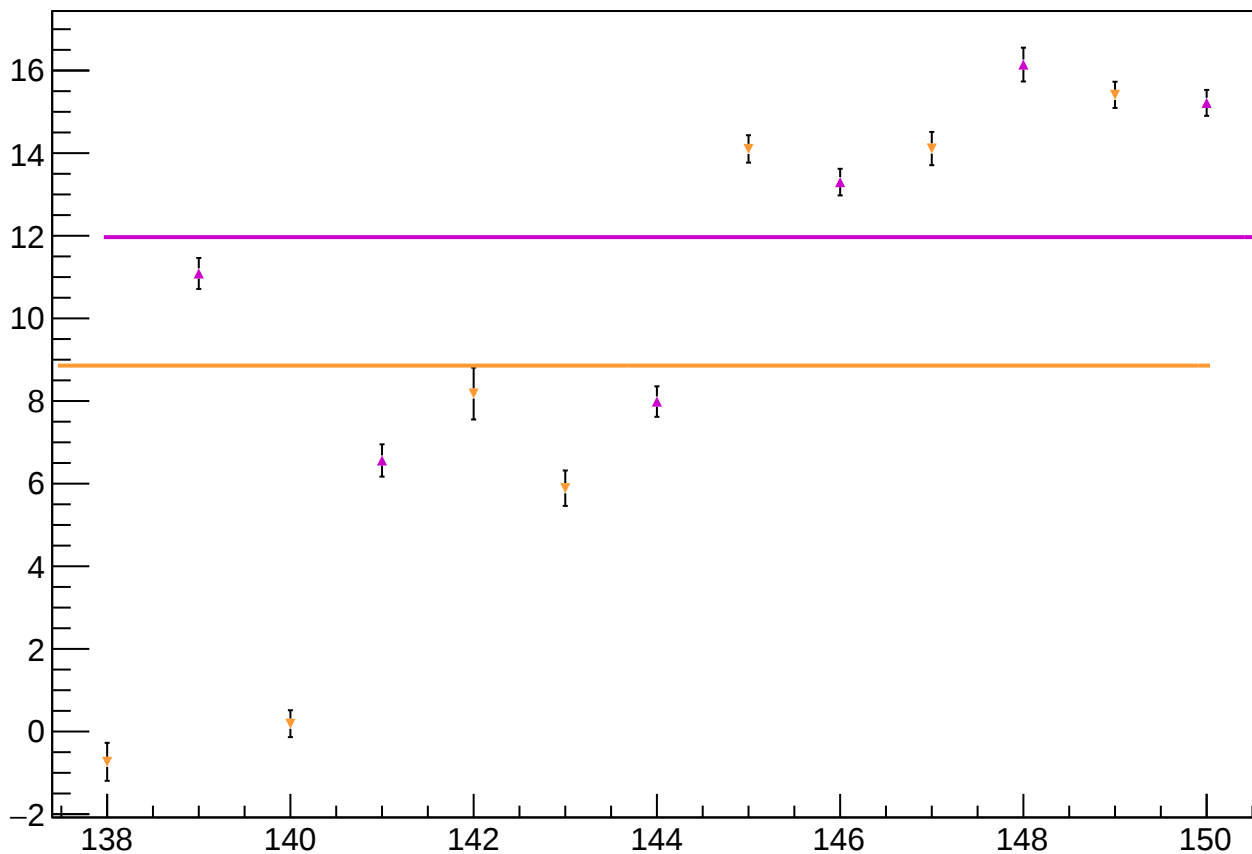
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.260+/-0.100  $\chi^2/\text{NDF}$ :1413.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.730+/-0.102  $\chi^2/\text{NDF}$ :2041.5/5

Left: 5.490+/-0.071  $\chi^2/\text{NDF}$ : 3466.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.730+/-0.102  $\chi^2/\text{NDF}$ :2041.5/5  
 Out: 5.260+/-0.100  $\chi^2/\text{NDF}$ :1413.9/6  
 All: 5.490+/-0.071  $\chi^2/\text{NDF}$ : 3466.3/12

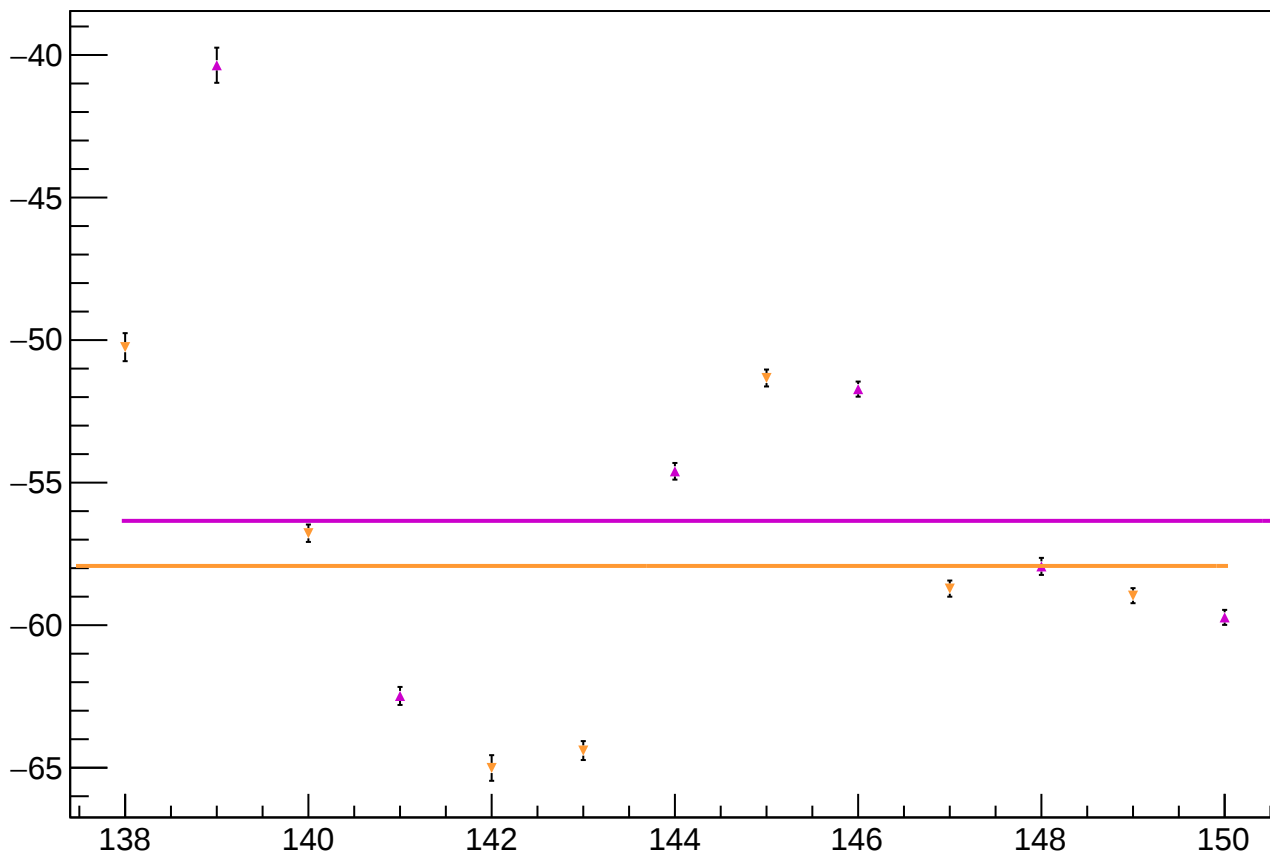
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.858+/-0.145  $\chi^2/\text{NDF}$ :2042.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.967+/-0.146  $\chi^2/\text{NDF}$ :541.6/5

Left: 10.403+/-0.103  $\chi^2/\text{NDF}$ : 2811.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.967+/-0.146  $\chi^2/\text{NDF}$ :541.6/5  
 Out: 8.858+/-0.145  $\chi^2/\text{NDF}$ :2042.3/6  
 All: 10.403+/-0.103  $\chi^2/\text{NDF}$ : 2811.5/12

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: -57.922+/-0.122  $\chi^2/\text{NDF}$ :1402.5/6

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

Left In: -56.341+/-0.125  $\chi^2/\text{NDF}$ :1583.9/5

Left: -57.148+/-0.087  $\chi^2/\text{NDF}$ : 3068.5/12

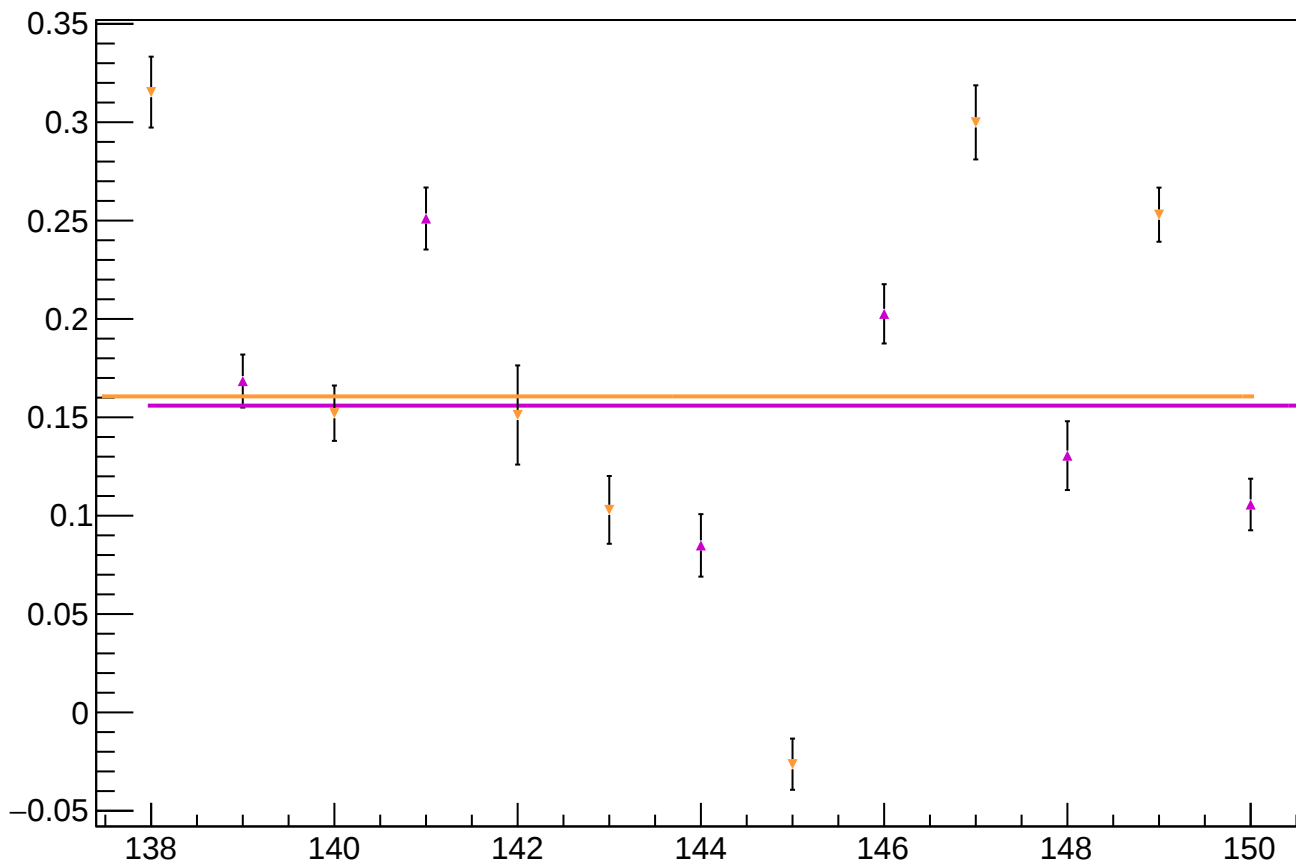
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -56.341+/-0.125  $\chi^2/\text{NDF}$ :1583.9/5

Out: -57.922+/-0.122  $\chi^2/\text{NDF}$ :1402.5/6

All: -57.148+/-0.087  $\chi^2/\text{NDF}$ : 3068.5/12

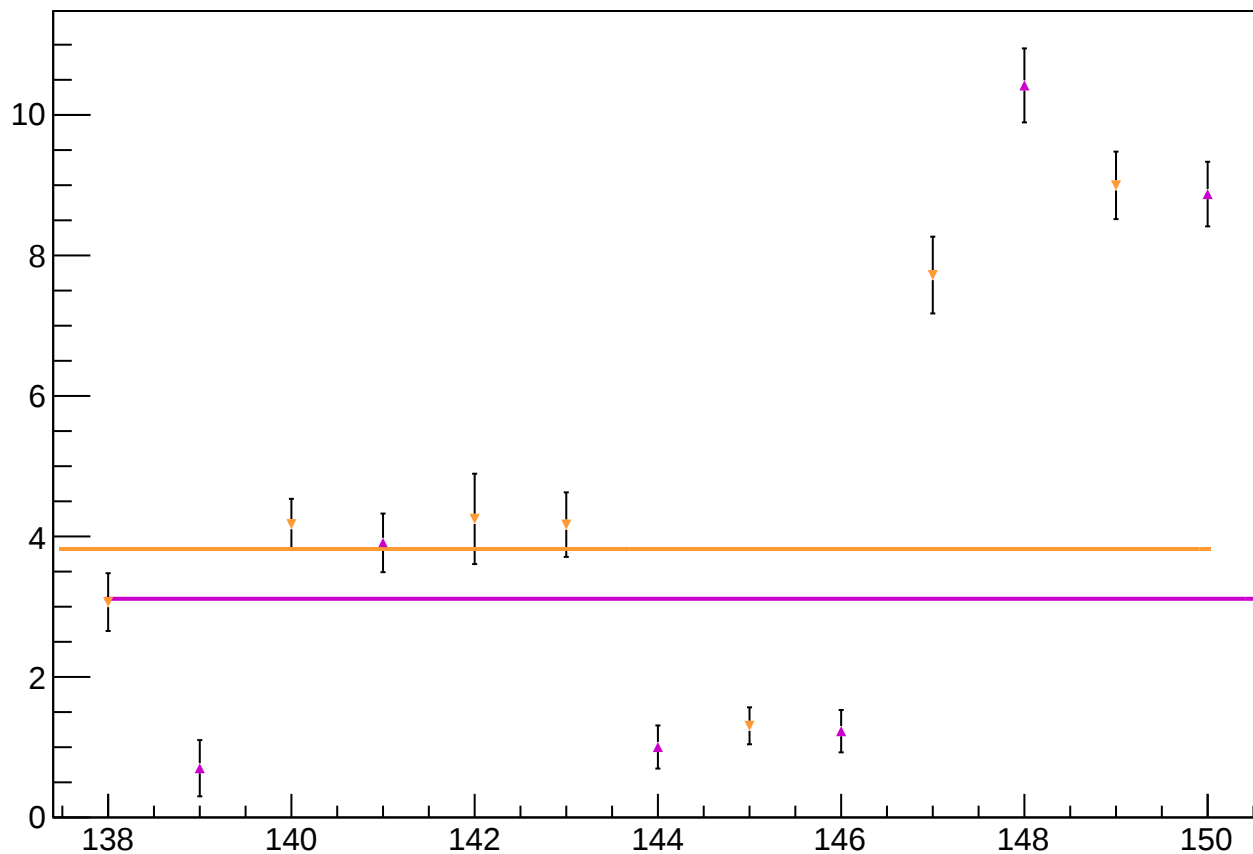
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.161 $\pm$ 0.006  $\chi^2$ /NDF:391.6/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.156 $\pm$ 0.006  $\chi^2$ /NDF:83.7/5

Left: 0.158 $\pm$ 0.004  $\chi^2$ /NDF: 475.6/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.156 $\pm$ 0.006  $\chi^2$ /NDF:83.7/5  
 Out: 0.161 $\pm$ 0.006  $\chi^2$ /NDF:391.6/6  
 All: 0.158 $\pm$ 0.004  $\chi^2$ /NDF: 475.6/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 3.822+/-0.153  $\chi^2/\text{NDF}$ :263.9/6

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

Left In: 3.113+/-0.154  $\chi^2/\text{NDF}$ :475.6/5

Left: 3.471+/-0.109  $\chi^2/\text{NDF}$ : 750.2/12

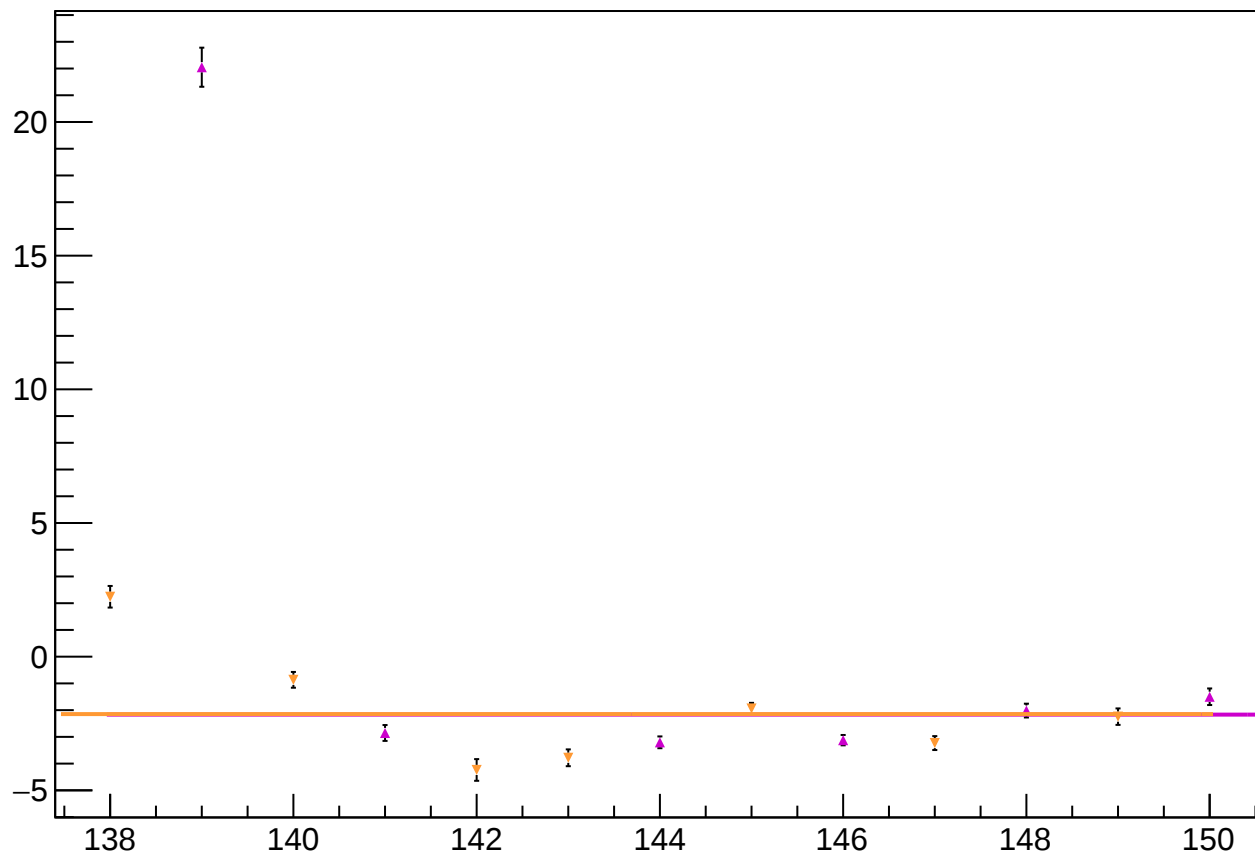
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3.113+/-0.154  $\chi^2/\text{NDF}$ :475.6/5

Out: 3.822+/-0.153  $\chi^2/\text{NDF}$ :263.9/6

All: 3.471+/-0.109  $\chi^2/\text{NDF}$ : 750.2/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



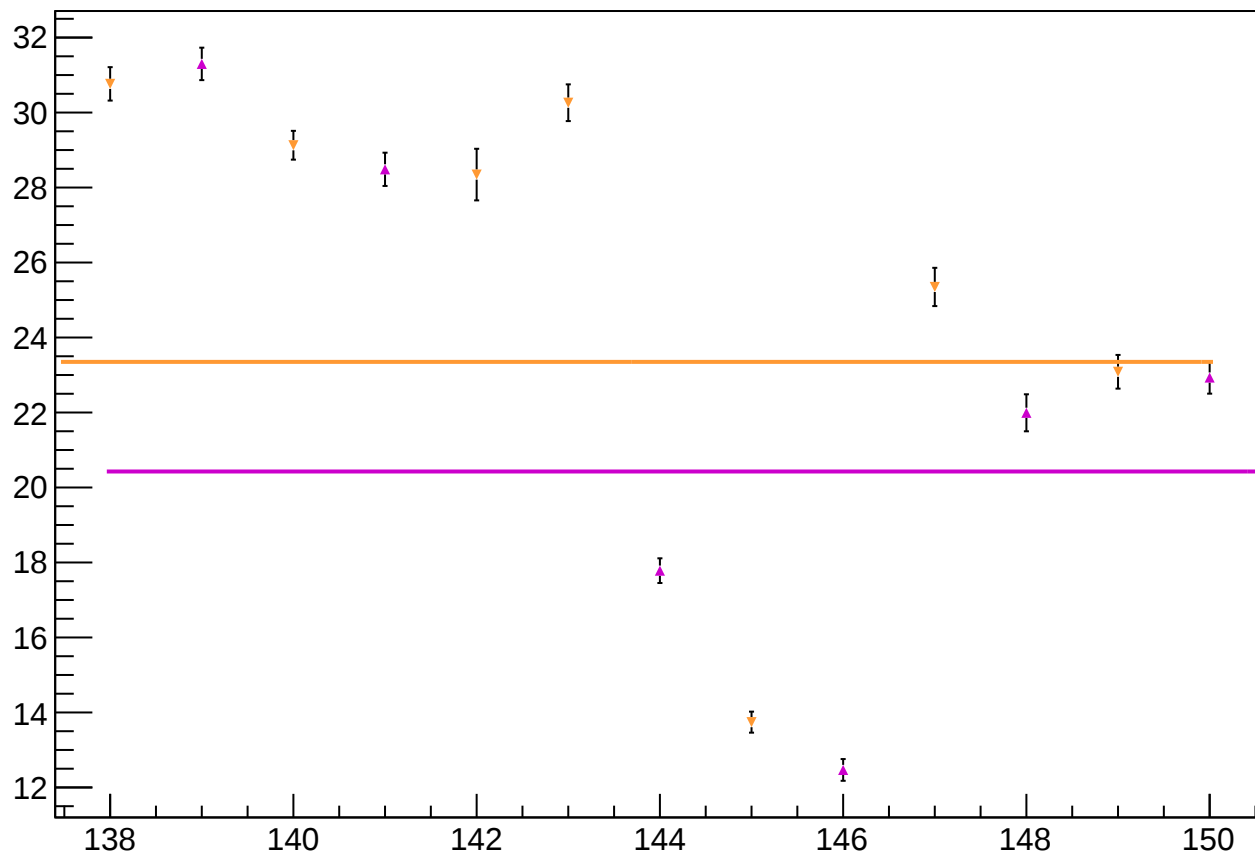
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.148+/-0.111  $\chi^2/\text{NDF}$ :208.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.168+/-0.108  $\chi^2/\text{NDF}$ :1154.1/5

Left: -2.158+/-0.077  $\chi^2/\text{NDF}$ : 1362.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.168+/-0.108  $\chi^2/\text{NDF}$ :1154.1/5  
 Out: -2.148+/-0.111  $\chi^2/\text{NDF}$ :208.8/6

All: -2.158+/-0.077  $\chi^2/\text{NDF}$ : 1362.9/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

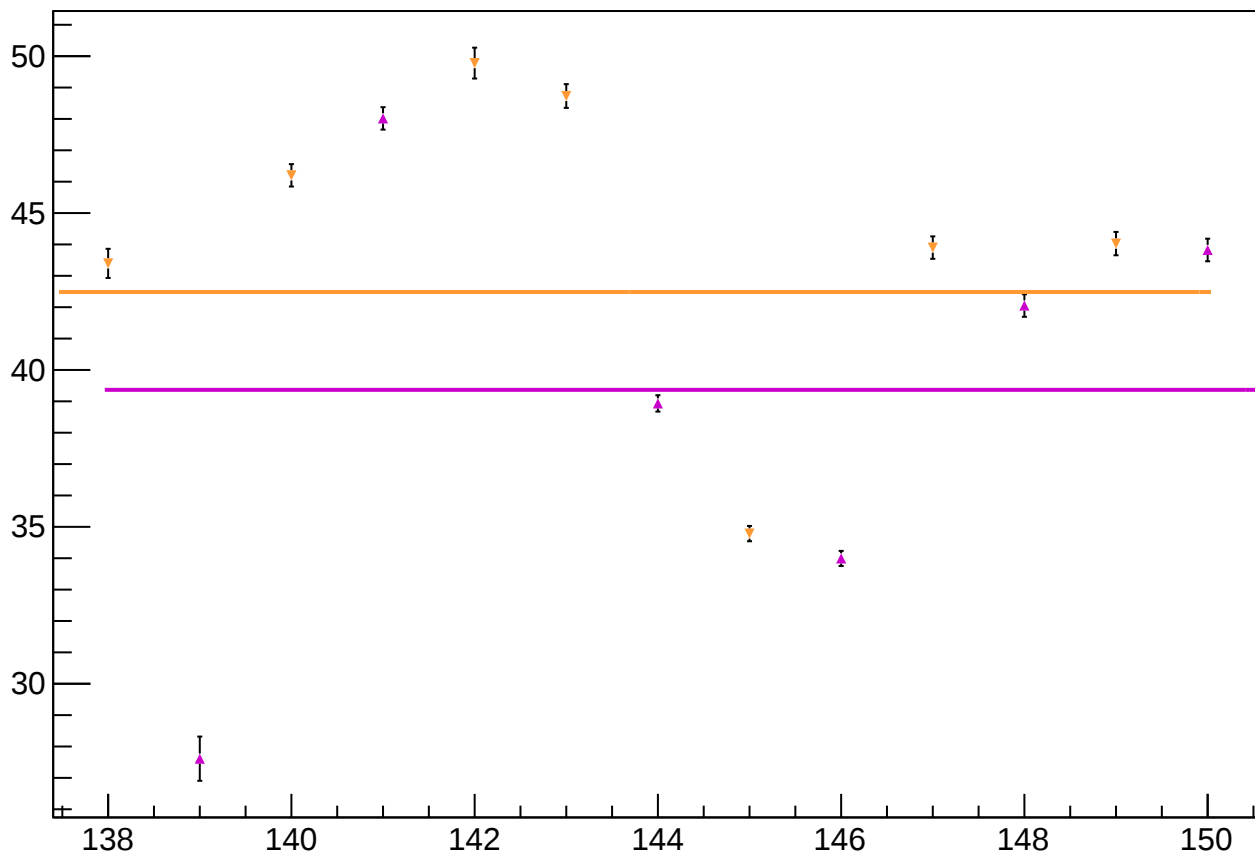


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 23.350+/-0.159  $\chi^2/\text{NDF}$ :1945.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 20.427+/-0.156  $\chi^2/\text{NDF}$ :1822.9/5

Left: 21.863+/-0.111  $\chi^2/\text{NDF}$ : 3940.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 20.427+/-0.156  $\chi^2/\text{NDF}$ :1822.9/5  
 Out: 23.350+/-0.159  $\chi^2/\text{NDF}$ :1945.4/6

All: 21.863+/-0.111  $\chi^2/\text{NDF}$ : 3940.5/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



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

Left Out: 42.485+/-0.134  $\chi^2/\text{NDF}$ :1633.7/6

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

Left In: 39.366+/-0.132  $\chi^2/\text{NDF}$ :1574.8/5

Left: 40.900+/-0.094  $\chi^2/\text{NDF}$ : 3482.6/12

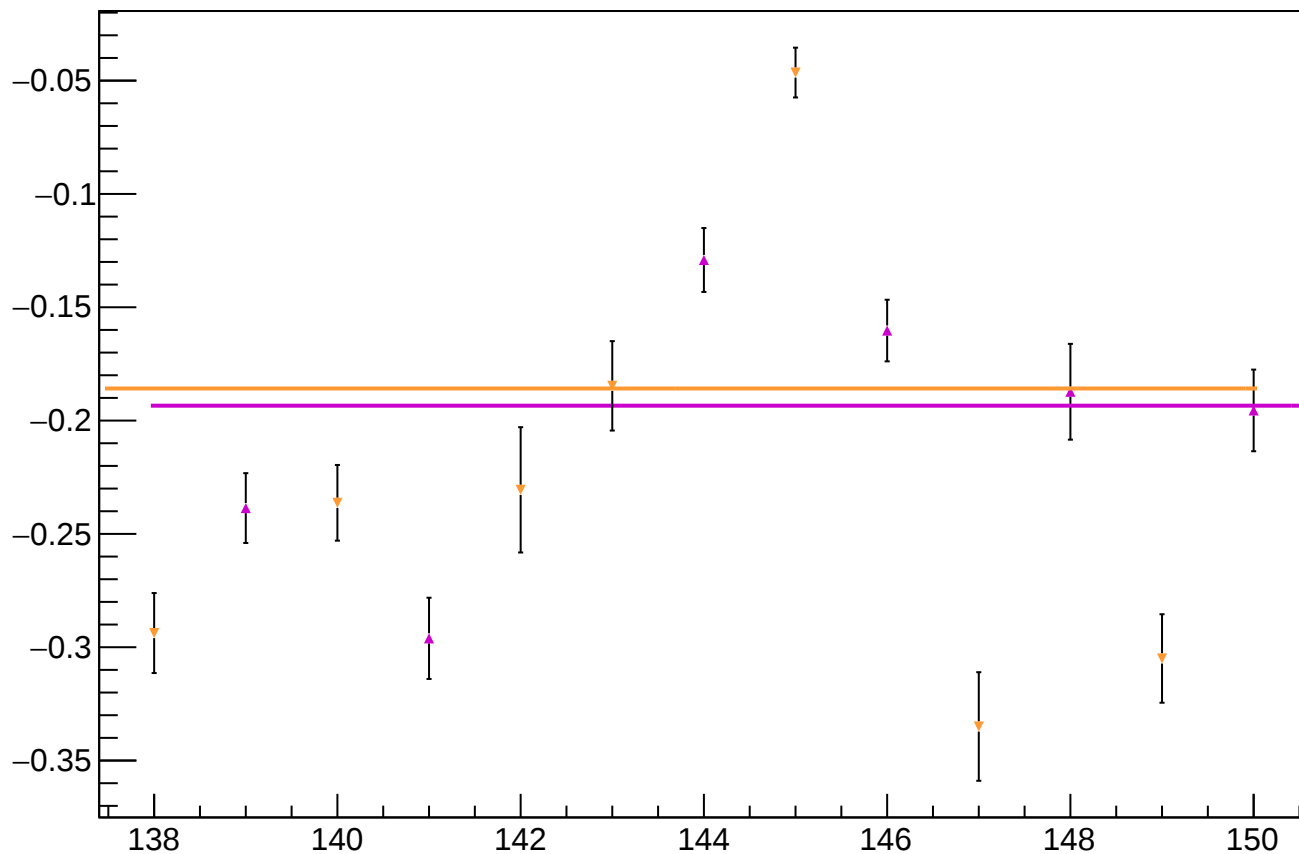
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 39.366+/-0.132  $\chi^2/\text{NDF}$ :1574.8/5

Out: 42.485+/-0.134  $\chi^2/\text{NDF}$ :1633.7/6

All: 40.900+/-0.094  $\chi^2/\text{NDF}$ : 3482.6/12

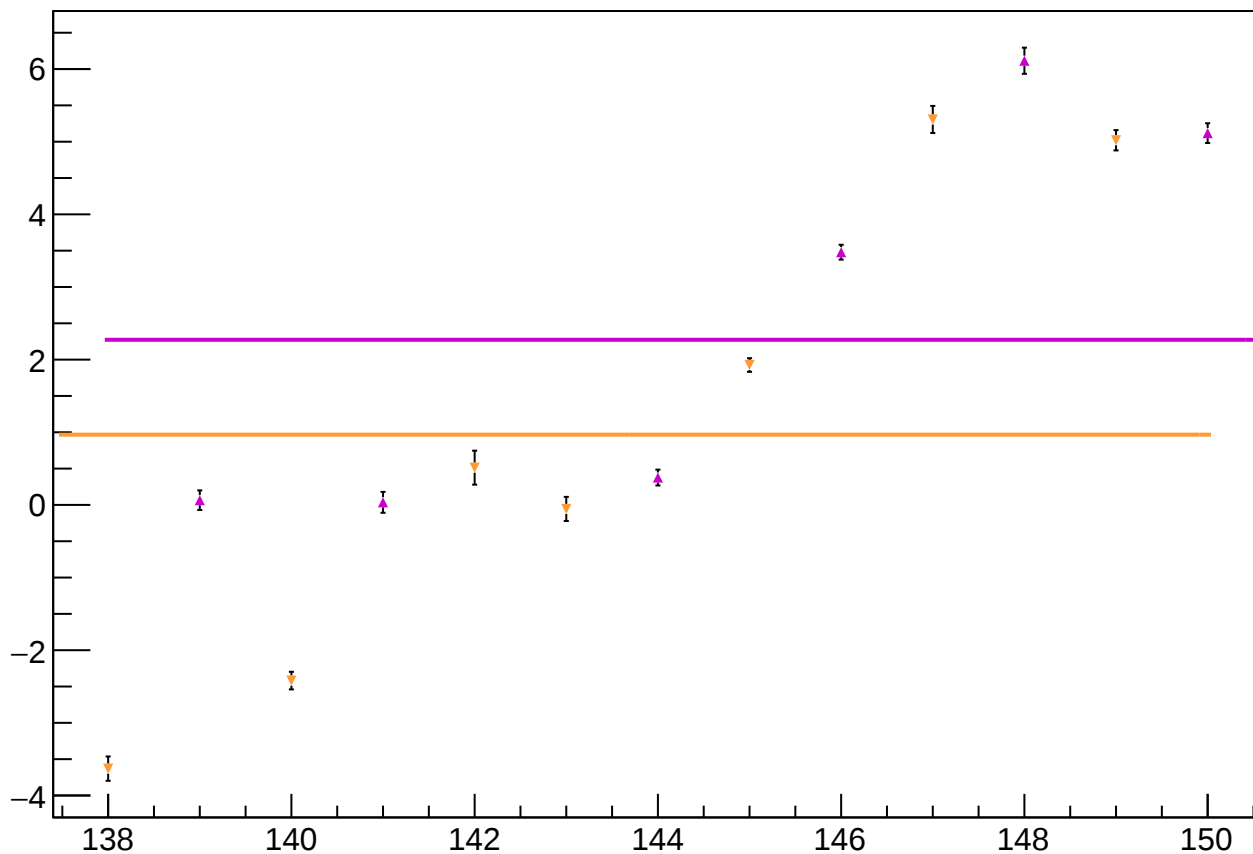
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.186+/-0.007  $\chi^2/\text{NDF}$ : 286.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.193+/-0.007  $\chi^2/\text{NDF}$ : 68.3/5

Left: -0.190+/-0.005  $\chi^2/\text{NDF}$ : 355.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.193+/-0.007  $\chi^2/\text{NDF}$ : 68.3/5  
 Out: -0.186+/-0.007  $\chi^2/\text{NDF}$ : 286.2/6  
 All: -0.190+/-0.005  $\chi^2/\text{NDF}$ : 355.1/12

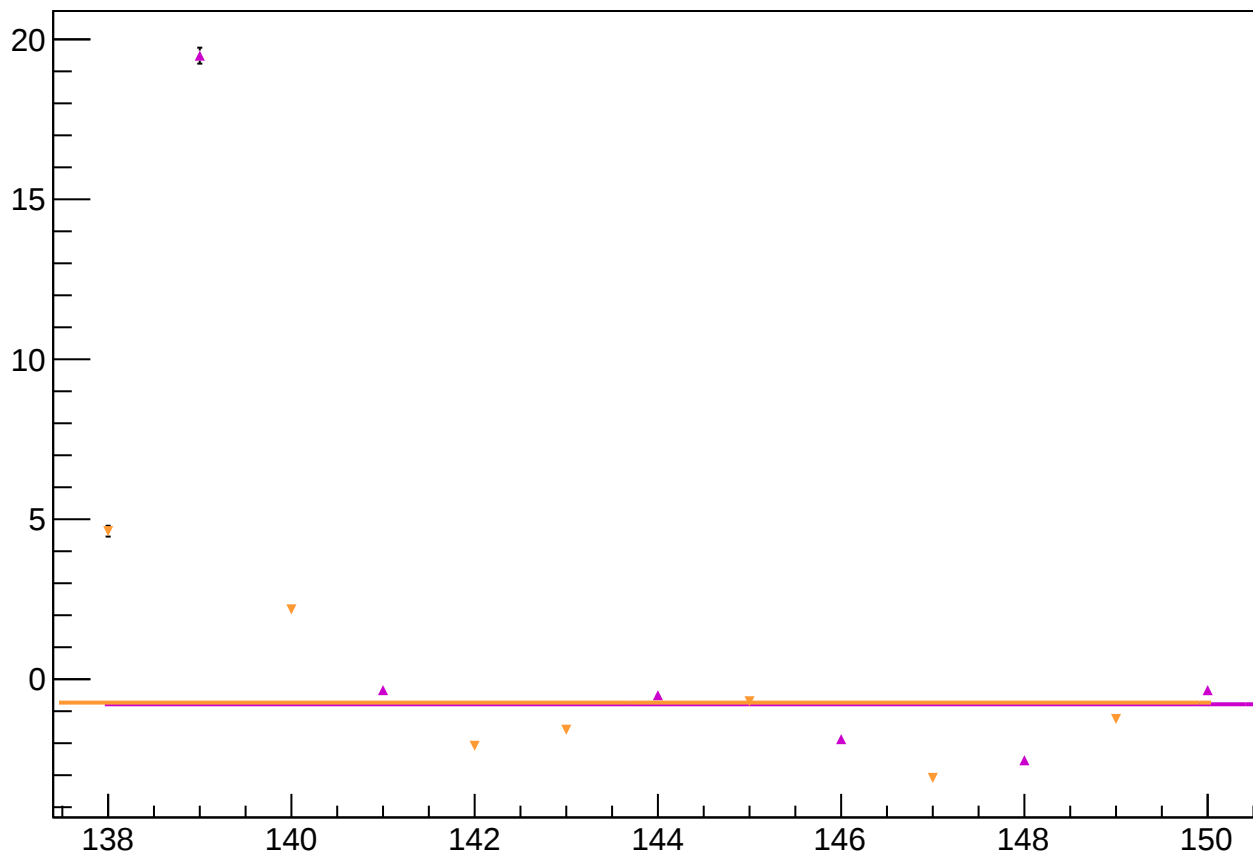
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.967 $\pm$ 0.053  $\chi^2$ /NDF:3059.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.273 $\pm$ 0.052  $\chi^2$ /NDF:1842.4/5

Left: 1.635 $\pm$ 0.037  $\chi^2$ /NDF: 5208.3/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 2.273 $\pm$ 0.052  $\chi^2$ /NDF:1842.4/5  
 Out: 0.967 $\pm$ 0.053  $\chi^2$ /NDF:3059.5/6  
 All: 1.635 $\pm$ 0.037  $\chi^2$ /NDF: 5208.3/12

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: -0.731+/-0.038  $\chi^2/\text{NDF}$ : 2714.6/6

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

Left In: -0.783+/-0.037  $\chi^2/\text{NDF}$ : 7327.6/5

Left: -0.758+/-0.027  $\chi^2/\text{NDF}$ : 10043.2/12

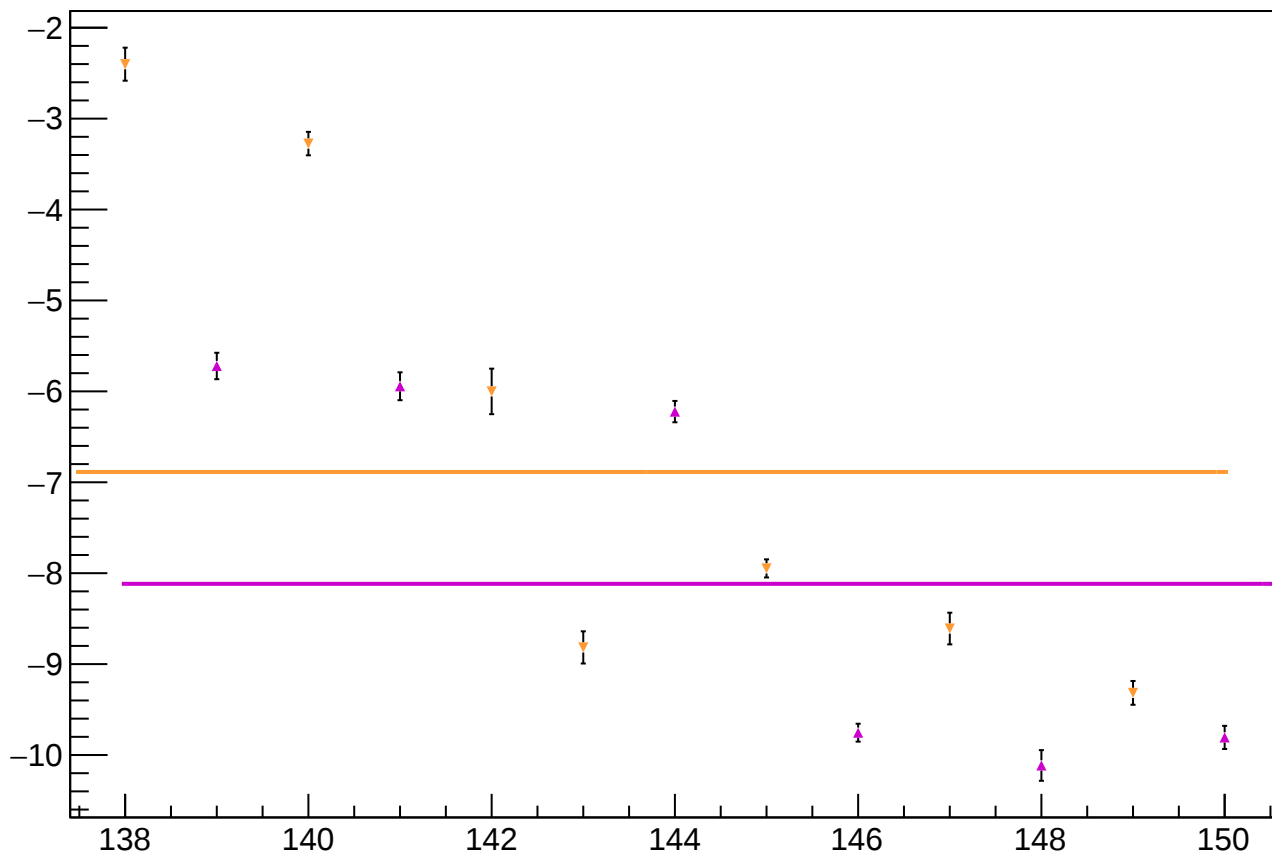
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.783+/-0.037  $\chi^2/\text{NDF}$ : 7327.6/5

Out: -0.731+/-0.038  $\chi^2/\text{NDF}$ : 2714.6/6

All: -0.758+/-0.027  $\chi^2/\text{NDF}$ : 10043.2/12

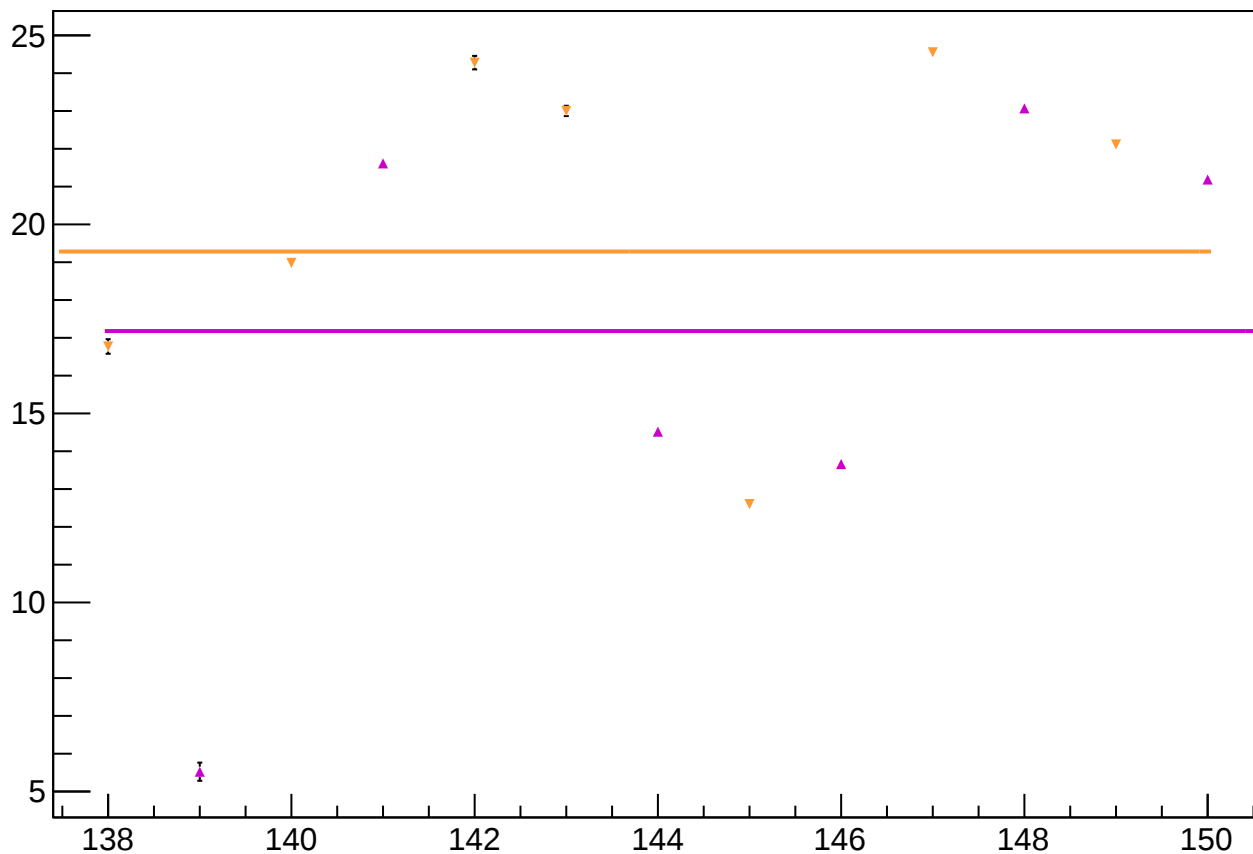
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.887+/-0.055  $\chi^2/\text{NDF}$ :2080.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.117+/-0.053  $\chi^2/\text{NDF}$ :1326.7/5

Left: -7.530+/-0.038  $\chi^2/\text{NDF}$ : 3669.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.117+/-0.053  $\chi^2/\text{NDF}$ :1326.7/5  
 Out: -6.887+/-0.055  $\chi^2/\text{NDF}$ :2080.7/6  
 All: -7.530+/-0.038  $\chi^2/\text{NDF}$ : 3669.1/12

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: 19.283+/-0.047  $\chi^2/\text{NDF}$ :9947.0/6

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

Left In: 17.179+/-0.045  $\chi^2/\text{NDF}$ :9974.3/5

Left: 18.187+/-0.032  $\chi^2/\text{NDF}$ : 20980.1/12

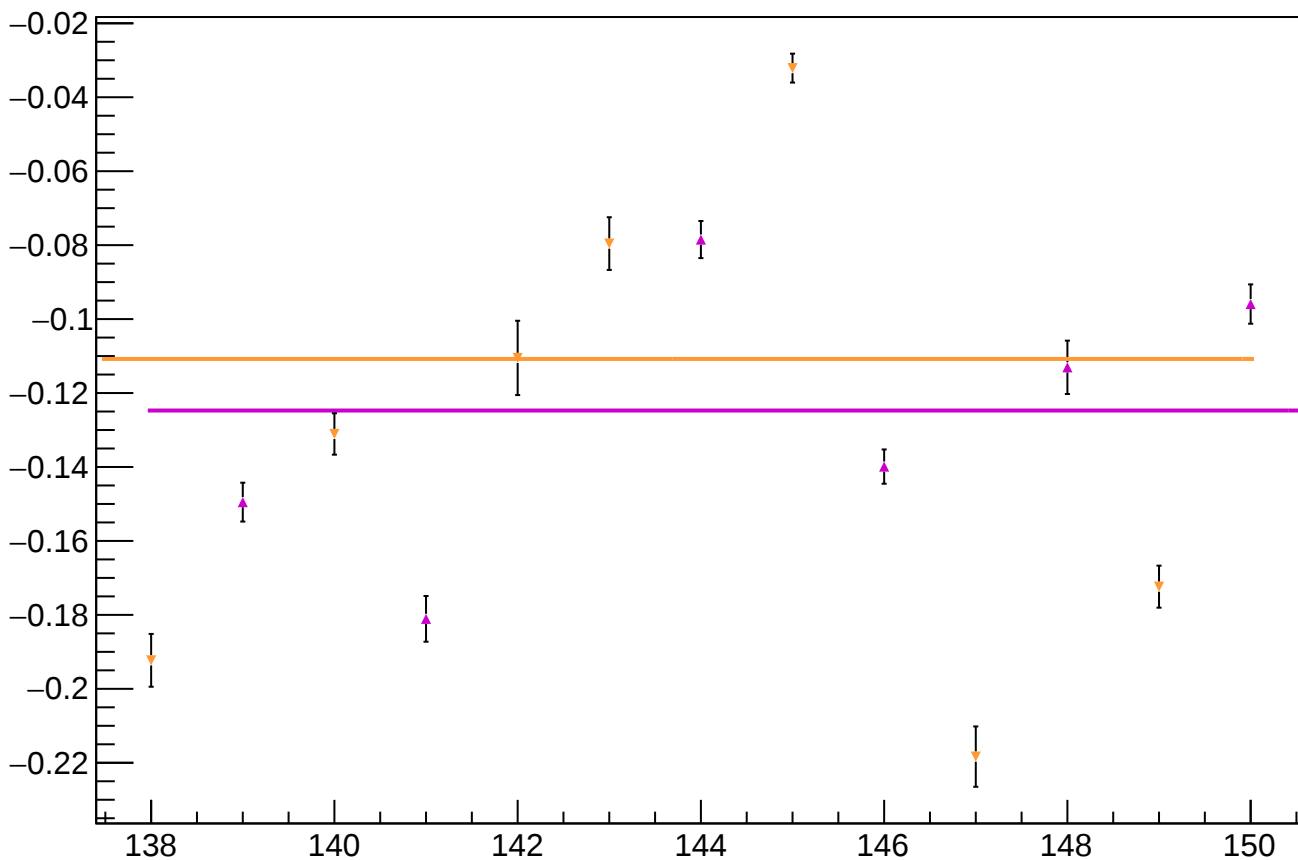
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.179+/-0.045  $\chi^2/\text{NDF}$ :9974.3/5

Out: 19.283+/-0.047  $\chi^2/\text{NDF}$ :9947.0/6

All: 18.187+/-0.032  $\chi^2/\text{NDF}$ : 20980.1/12

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



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

Left Out: -0.111+/-0.002  $\chi^2/\text{NDF}$ : 858.9/6

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

Left In: -0.125+/-0.002  $\chi^2/\text{NDF}$ : 232.8/5

Left: -0.118+/-0.002  $\chi^2/\text{NDF}$ : 1110.9/12

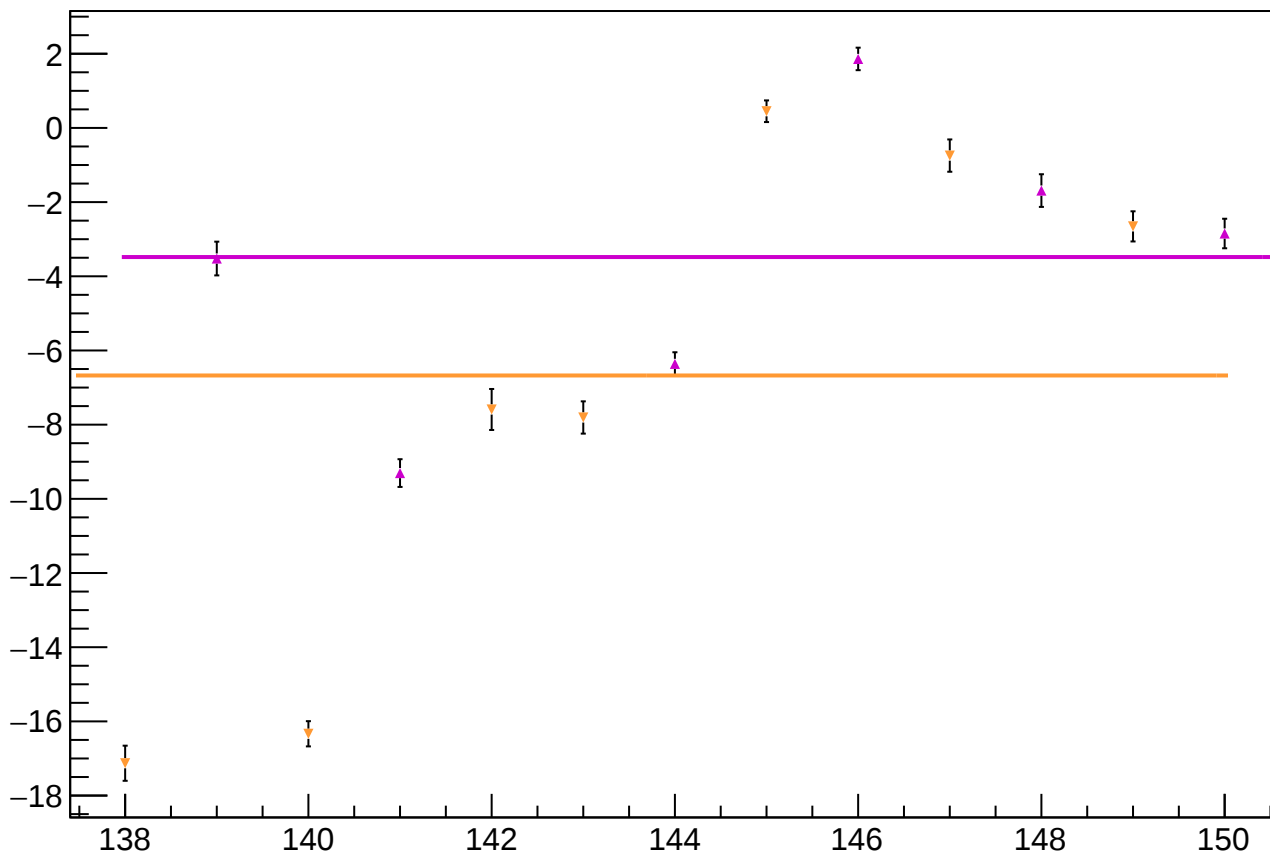
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.125+/-0.002  $\chi^2/\text{NDF}$ : 232.8/5

Out: -0.111+/-0.002  $\chi^2/\text{NDF}$ : 858.9/6

All: -0.118+/-0.002  $\chi^2/\text{NDF}$ : 1110.9/12

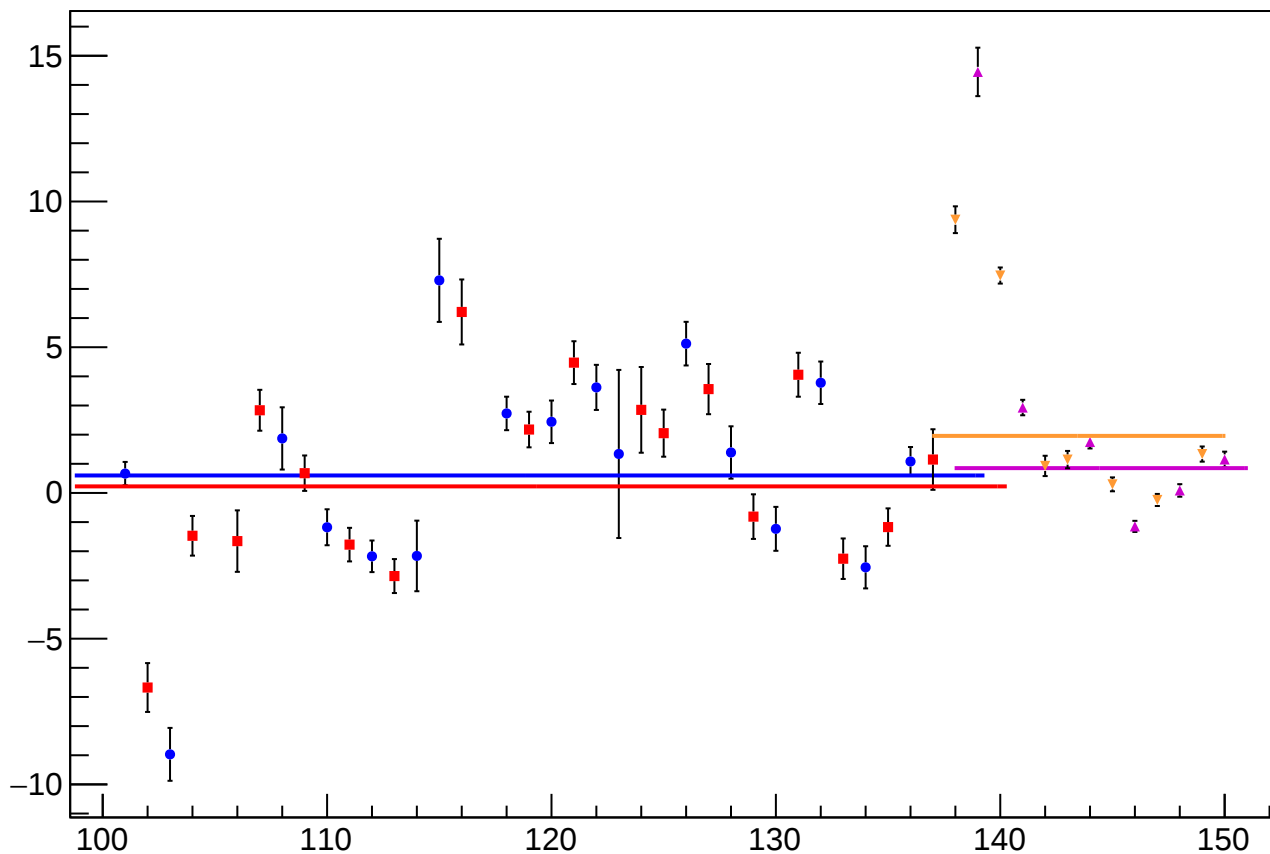
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.674+/-0.150  $\chi^2/\text{NDF}$ : 2182.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.481+/-0.150  $\chi^2/\text{NDF}$ : 656.4/5

Left: -5.081+/-0.106  $\chi^2/\text{NDF}$ : 3066.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.481+/-0.150  $\chi^2/\text{NDF}$ : 656.4/5  
 Out: -6.674+/-0.150  $\chi^2/\text{NDF}$ : 2182.5/6  
 All: -5.081+/-0.106  $\chi^2/\text{NDF}$ : 3066.4/12

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:  $1.958 \pm 0.104$   $\chi^2/\text{NDF}$ : 840.3/6

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

Left In:  $0.852 \pm 0.101$   $\chi^2/\text{NDF}$ : 468.3/5

Left:  $1.388 \pm 0.072$   $\chi^2/\text{NDF}$ : 1367.2/12

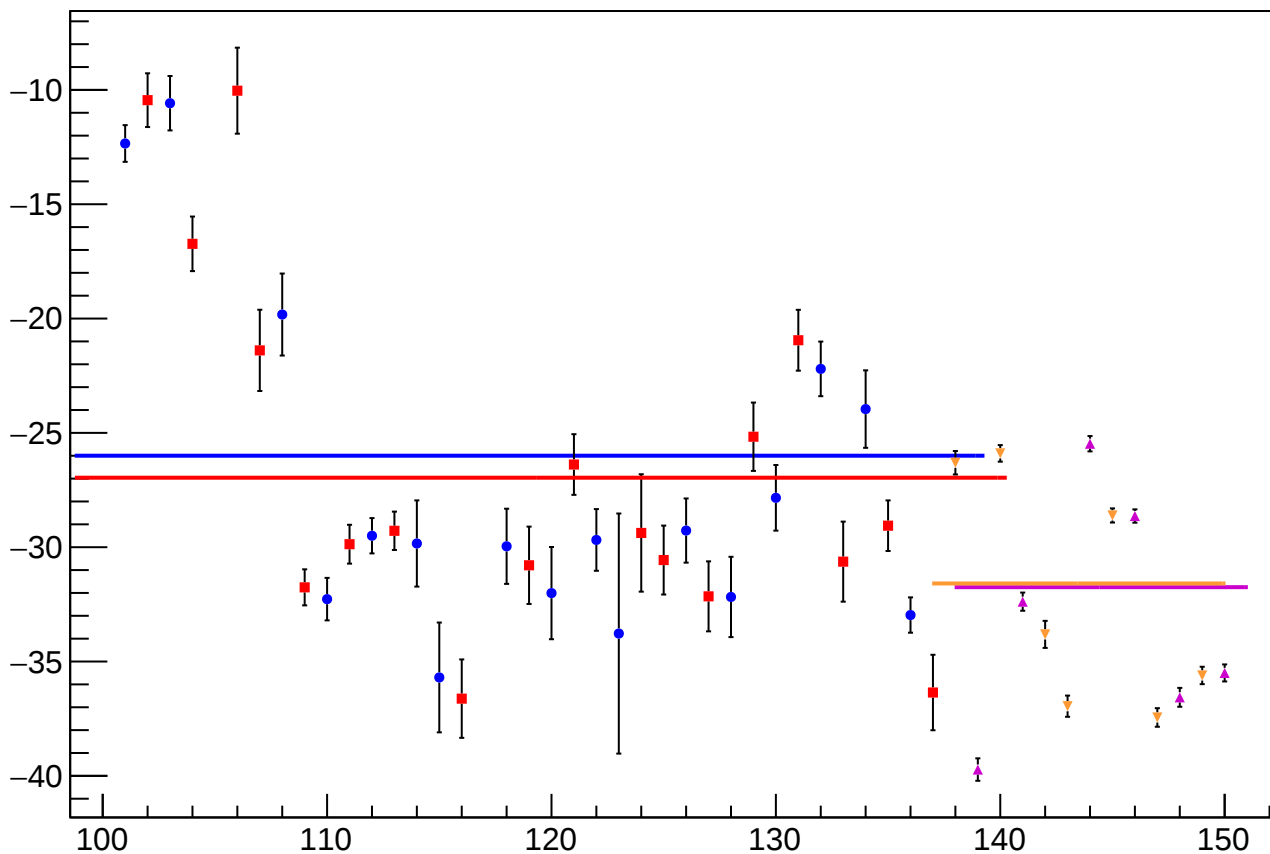
Right:  $0.418 \pm 0.122$   $\chi^2/\text{NDF}$ : 567.5/34

In:  $0.786 \pm 0.087$   $\chi^2/\text{NDF}$ : 761.9/22

Out:  $1.507 \pm 0.089$   $\chi^2/\text{NDF}$ : 1186.1/24

All:  $1.135 \pm 0.062$   $\chi^2/\text{NDF}$ : 1981.7/47

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:  $-31.586 \pm 0.154$   $\chi^2/\text{NDF}$ : 912.9/6

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

Left In:  $-31.748 \pm 0.150$   $\chi^2/\text{NDF}$ : 967.8/5

Left:  $-31.669 \pm 0.107$   $\chi^2/\text{NDF}$ : 1881.2/12

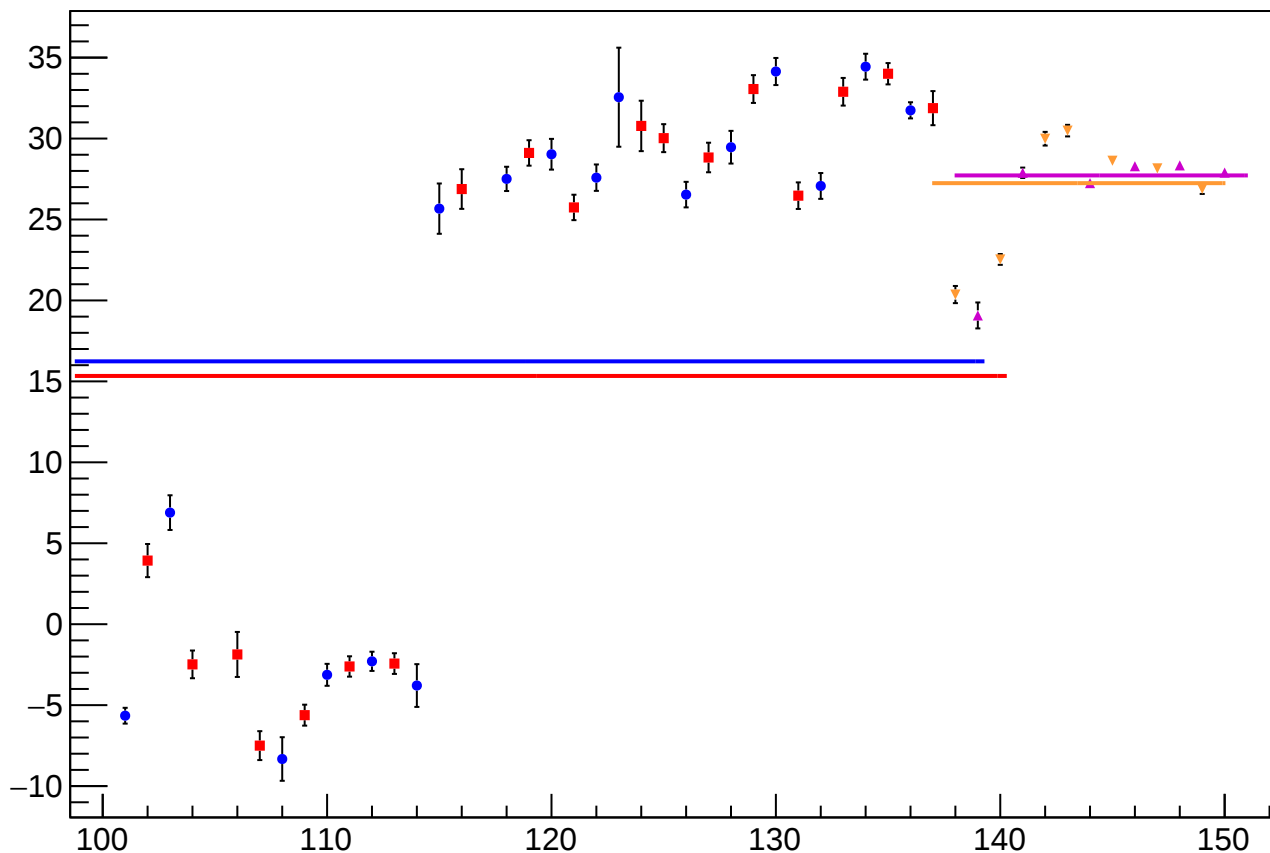
Right:  $-26.482 \pm 0.212$   $\chi^2/\text{NDF}$ : 1233.2/34

In:  $-30.594 \pm 0.134$   $\chi^2/\text{NDF}$ : 1953.8/22

Out:  $-30.616 \pm 0.137$   $\chi^2/\text{NDF}$ : 1638.4/24

All:  $-30.605 \pm 0.096$   $\chi^2/\text{NDF}$ : 3592.2/47

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: 27.245 $\pm$ 0.127  $\chi^2$ /NDF: 528.6/6

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

Left In: 27.722 $\pm$ 0.124  $\chi^2$ /NDF: 130.2/5

Left: 27.489 $\pm$ 0.089  $\chi^2$ /NDF: 666.0/12

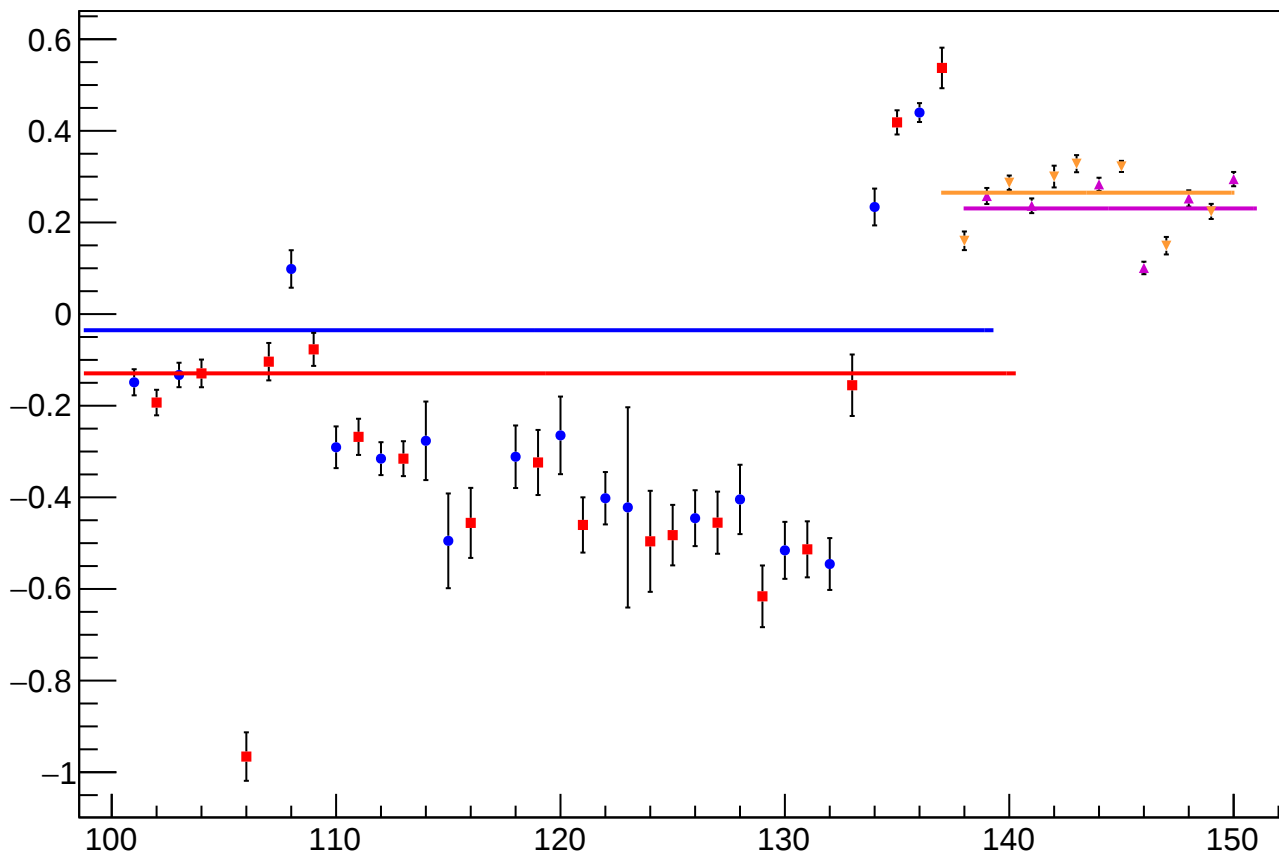
Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14850.4/34

In: 24.309 $\pm$ 0.104  $\chi^2$ /NDF: 10241.0/22

Out: 23.735 $\pm$ 0.107  $\chi^2$ /NDF: 10362.0/24

All: 24.029 $\pm$ 0.075  $\chi^2$ /NDF: 20617.7/47

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:  $0.265 \pm 0.006$   $\chi^2/\text{NDF}$ : 107.4/6

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

Left In:  $0.231 \pm 0.006$   $\chi^2/\text{NDF}$ : 124.5/5

Left:  $0.248 \pm 0.005$   $\chi^2/\text{NDF}$ : 246.3/12

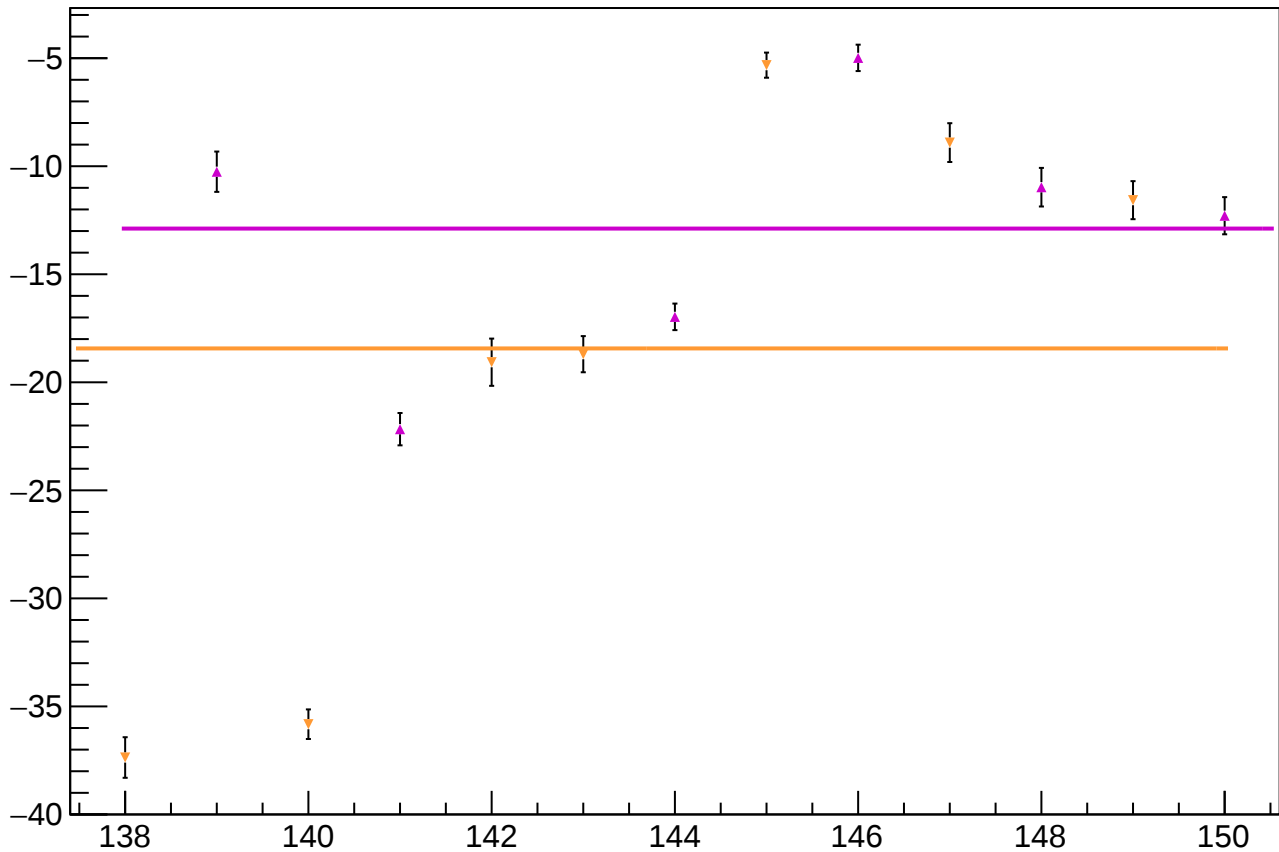
Right:  $-0.082 \pm 0.007$   $\chi^2/\text{NDF}$ : 2216.5/34

In:  $0.157 \pm 0.005$   $\chi^2/\text{NDF}$ : 1618.0/22

Out:  $0.156 \pm 0.005$   $\chi^2/\text{NDF}$ : 2311.9/24

All:  $0.157 \pm 0.004$   $\chi^2/\text{NDF}$ : 3929.9/47

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -18.433+/-0.301  $\chi^2/\text{NDF}$ :1733.2/6

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

Left In: -12.886+/-0.303  $\chi^2/\text{NDF}$ :378.6/5

Left: -15.678+/-0.214  $\chi^2/\text{NDF}$ : 2280.2/12

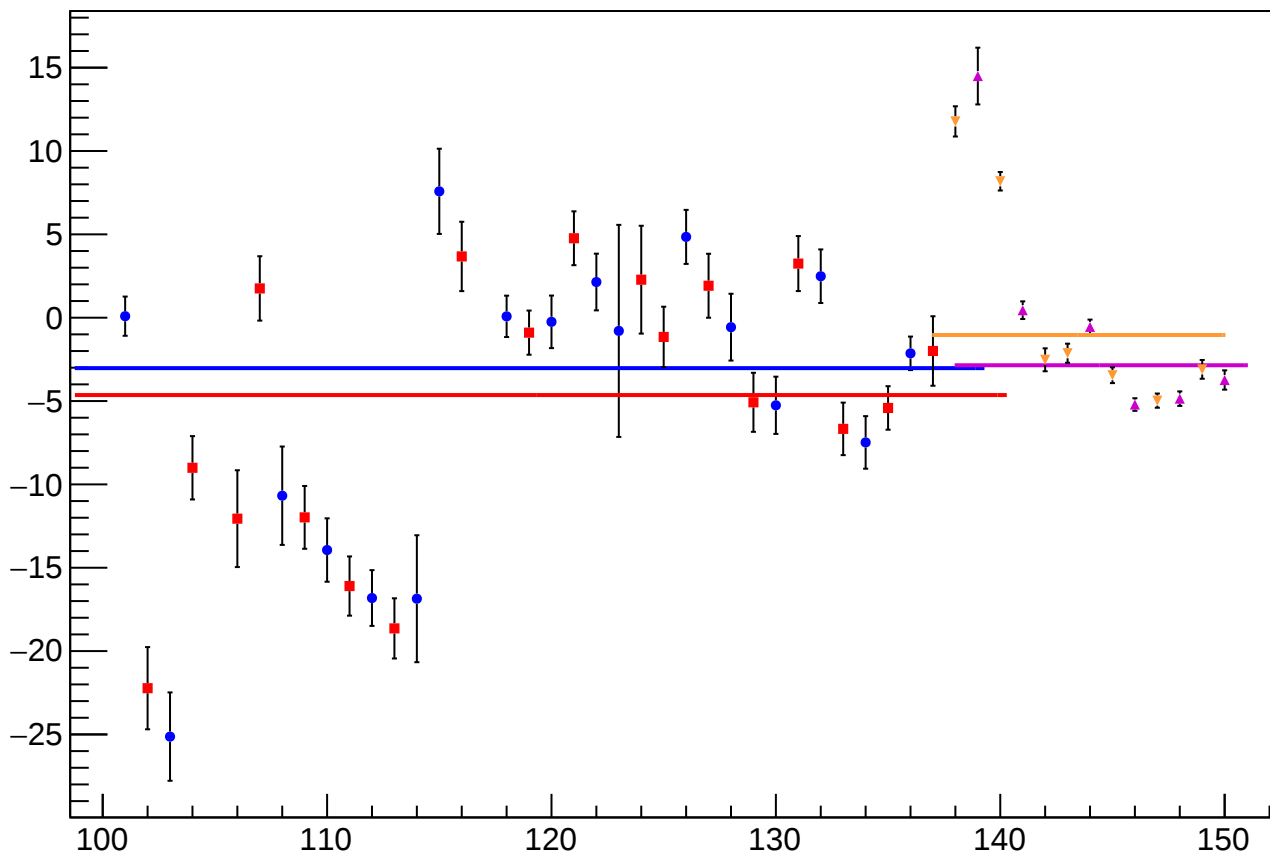
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.886+/-0.303  $\chi^2/\text{NDF}$ :378.6/5

Out: -18.433+/-0.301  $\chi^2/\text{NDF}$ :1733.2/6

All: -15.678+/-0.214  $\chi^2/\text{NDF}$ : 2280.2/12

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:  $-1.038 \pm 0.210$   $\chi^2/\text{NDF}$ : 609.0/6

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

Left In:  $-2.853 \pm 0.202$   $\chi^2/\text{NDF}$ : 232.8/5

Left:  $-1.977 \pm 0.146$   $\chi^2/\text{NDF}$ : 880.6/12

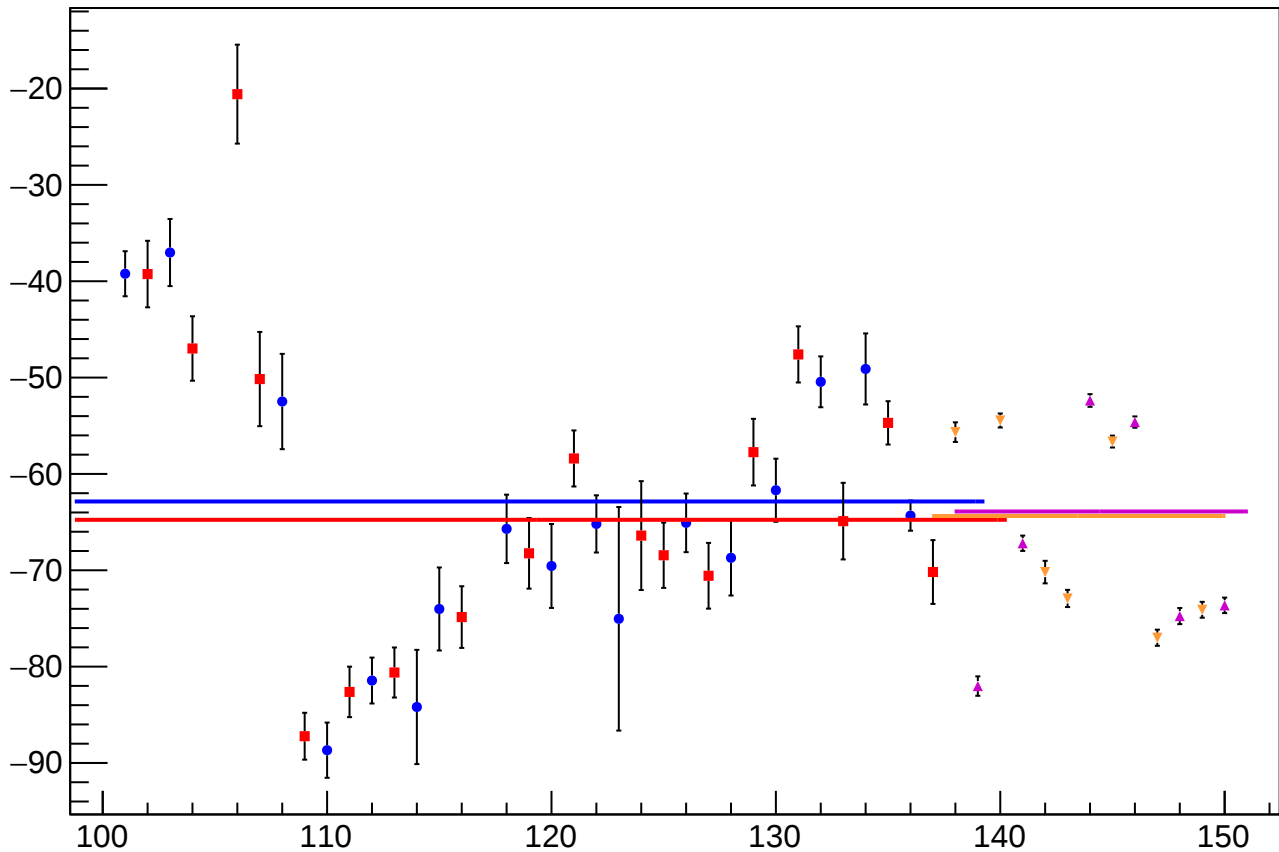
Right:  $-3.797 \pm 0.295$   $\chi^2/\text{NDF}$ : 583.0/34

In:  $-2.887 \pm 0.181$   $\chi^2/\text{NDF}$ : 513.6/22

Out:  $-1.738 \pm 0.188$   $\chi^2/\text{NDF}$ : 961.3/24

All:  $-2.334 \pm 0.131$   $\chi^2/\text{NDF}$ : 1494.2/47

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:  $-64.367 \pm 0.311$   $\chi^2/\text{NDF}: 898.4/6$

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}: 416.1/17$

Left In:  $-63.897 \pm 0.305$   $\chi^2/\text{NDF}: 1212.0/5$

Left:  $-64.128 \pm 0.218$   $\chi^2/\text{NDF}: 2111.6/12$

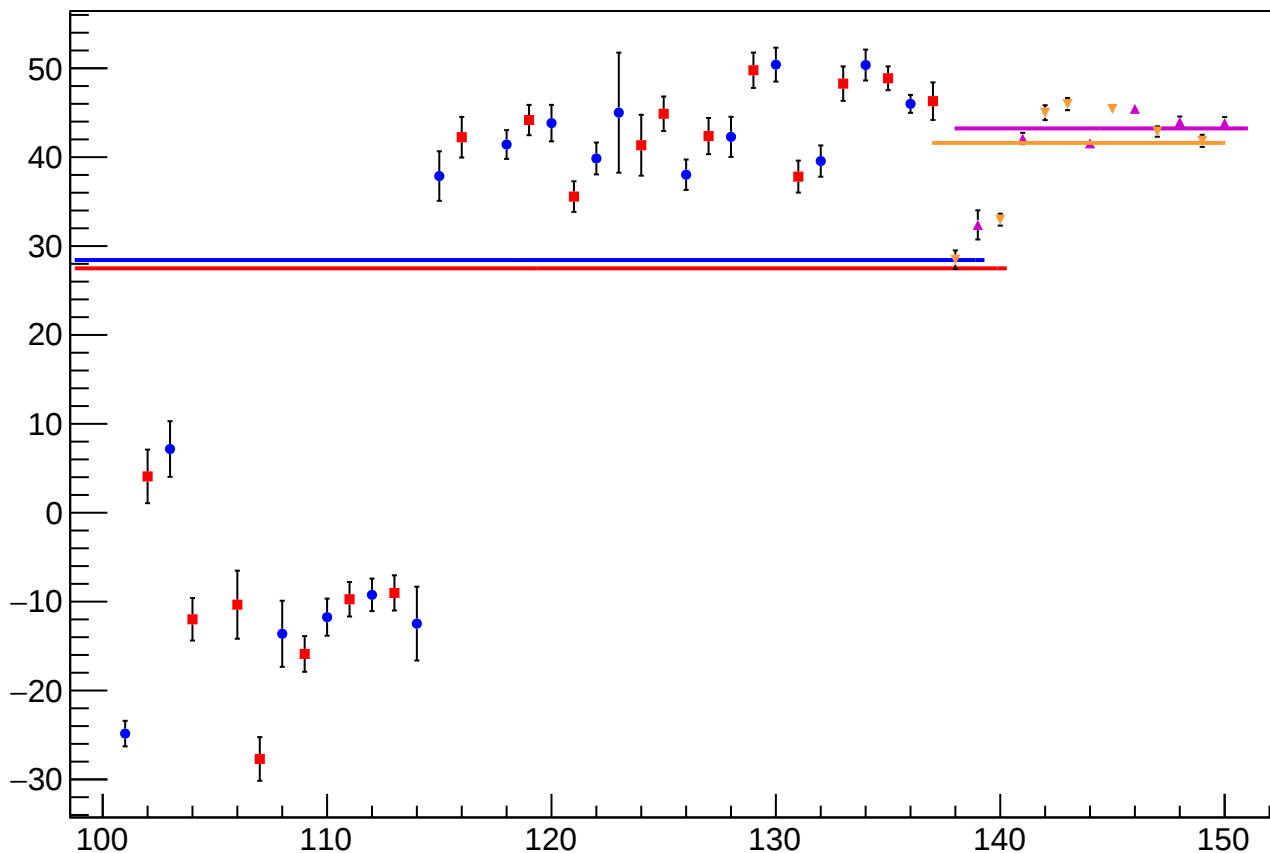
Right:  $-63.792 \pm 0.527$   $\chi^2/\text{NDF}: 787.1/34$

In:  $-63.746 \pm 0.282$   $\chi^2/\text{NDF}: 1581.4/22$

Out:  $-64.424 \pm 0.287$   $\chi^2/\text{NDF}: 1314.8/24$

All:  $-64.079 \pm 0.201$   $\chi^2/\text{NDF}: 2899.0/47$

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 28.426 $\pm$ 0.458  $\chi^2$ /NDF: 3322.4/16

Left Out: 41.606 $\pm$ 0.257  $\chi^2$ /NDF:433.2/6

Right Out: 27.493 $\pm$ 0.479  $\chi^2$ /NDF: 3027.8/17

Left In: 43.235 $\pm$ 0.251  $\chi^2$ /NDF:81.0/5

Left: 42.441 $\pm$ 0.180  $\chi^2$ /NDF: 534.8/12

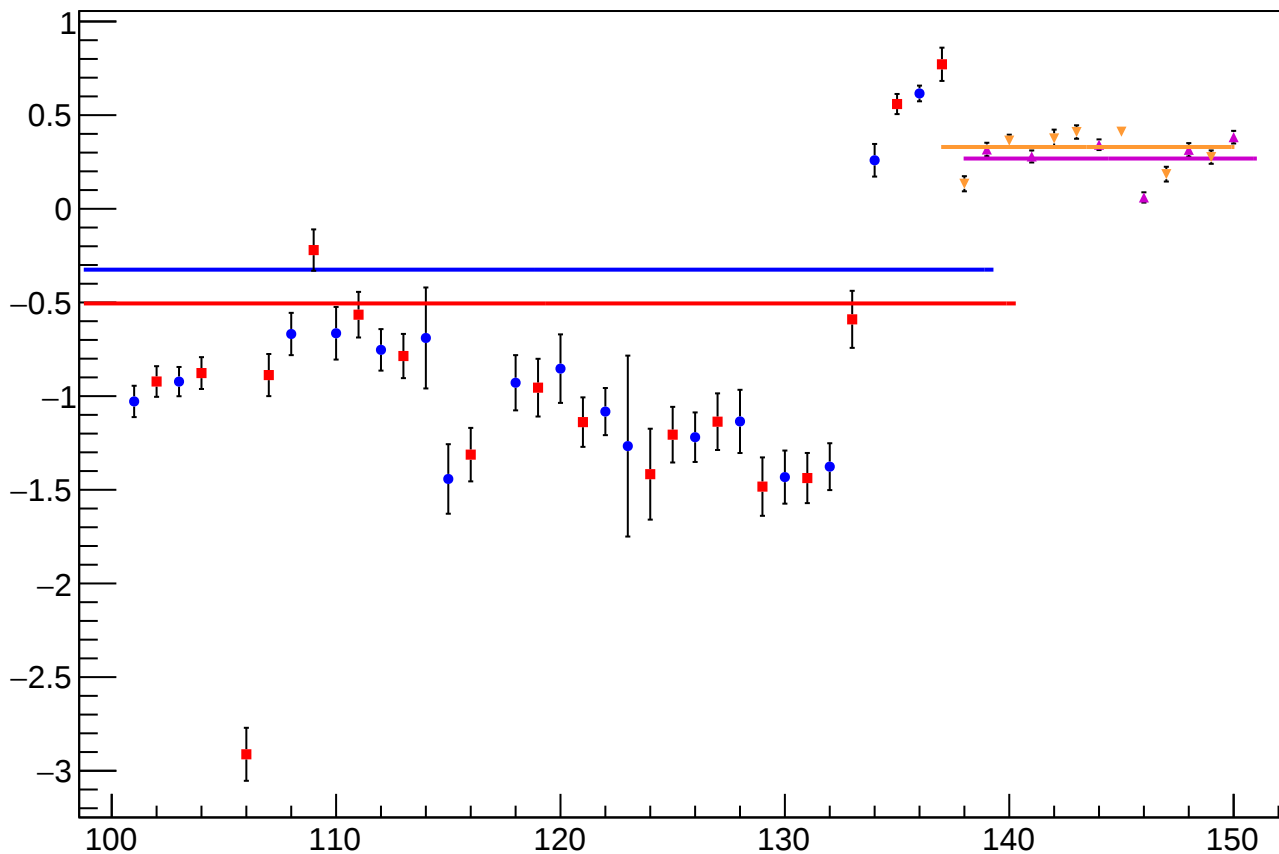
Right: 27.980 $\pm$ 0.331  $\chi^2$ /NDF: 6352.1/34

In: 39.811 $\pm$ 0.220  $\chi^2$ /NDF:4208.0/22

Out: 38.442 $\pm$ 0.227  $\chi^2$ /NDF:4135.2/24

All: 39.147 $\pm$ 0.158  $\chi^2$ /NDF: 8361.9/47

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:  $0.330 \pm 0.013$   $\chi^2/\text{NDF}$ : 57.8/6

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

Left In:  $0.268 \pm 0.013$   $\chi^2/\text{NDF}$ : 79.1/5

Left:  $0.299 \pm 0.009$   $\chi^2/\text{NDF}$ : 148.2/12

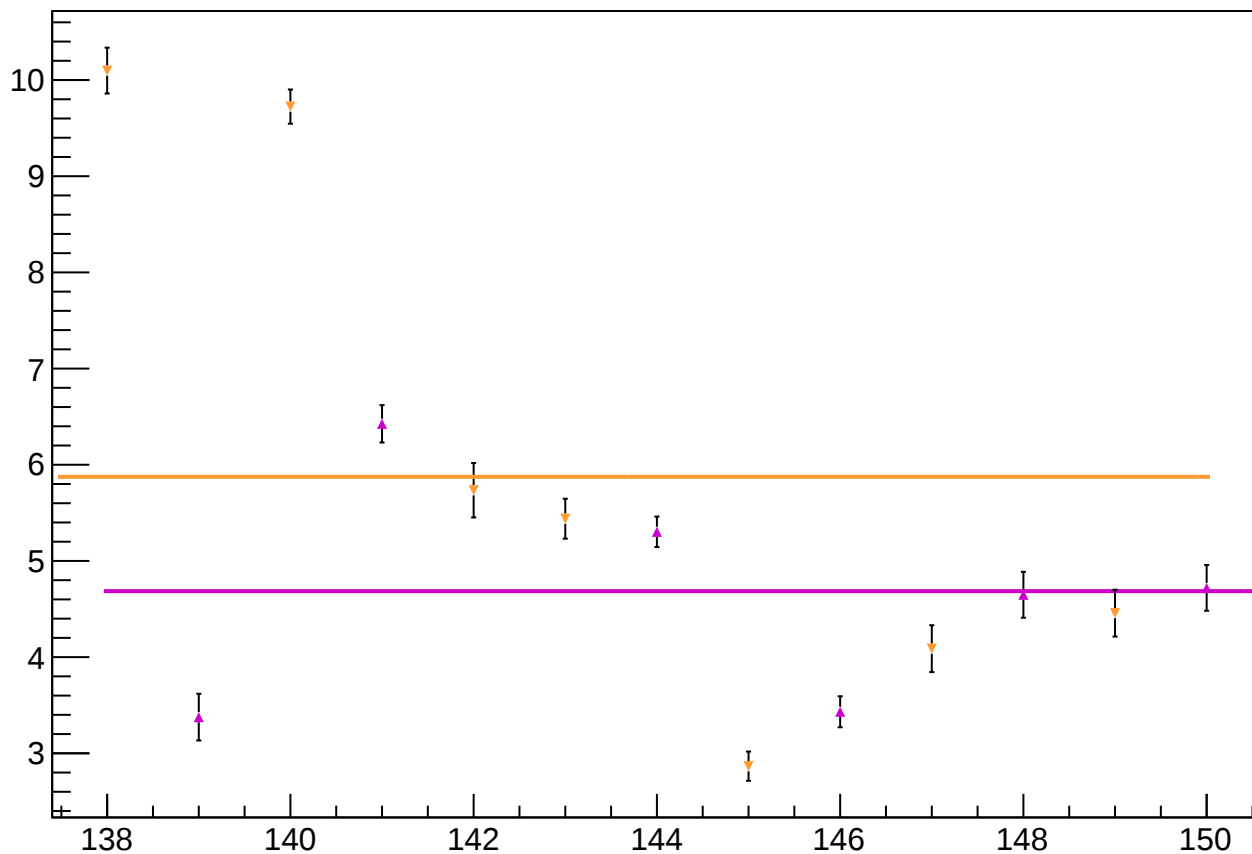
Right:  $-0.412 \pm 0.018$   $\chi^2/\text{NDF}$ : 2200.3/34

In:  $0.142 \pm 0.011$   $\chi^2/\text{NDF}$ : 1537.1/22

Out:  $0.161 \pm 0.012$   $\chi^2/\text{NDF}$ : 2059.7/24

All:  $0.152 \pm 0.008$   $\chi^2/\text{NDF}$ : 3598.2/47

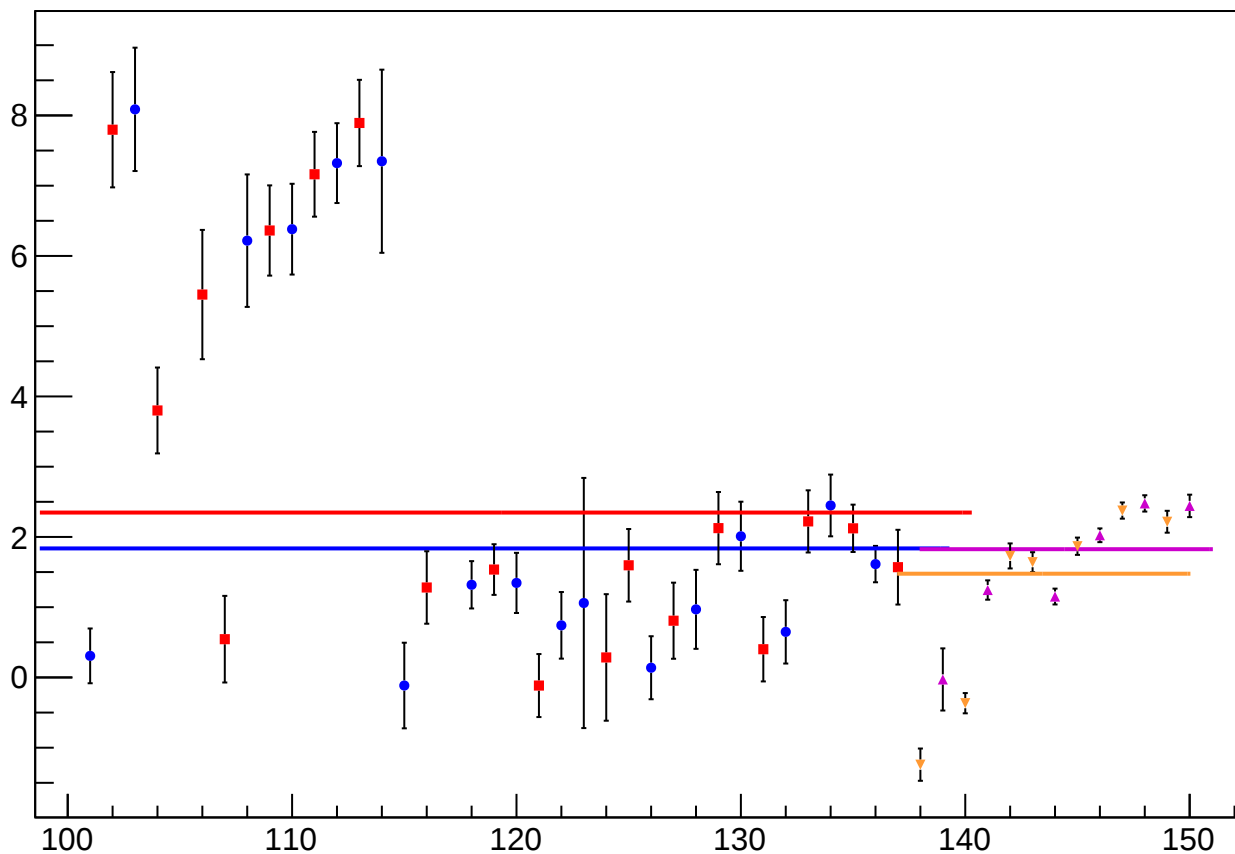
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.875+/-0.079  $\chi^2/\text{NDF}$ :1264.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.686+/-0.080  $\chi^2/\text{NDF}$ :184.9/5

Left: 5.289+/-0.056  $\chi^2/\text{NDF}$ : 1562.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.686+/-0.080  $\chi^2/\text{NDF}$ :184.9/5  
 Out: 5.875+/-0.079  $\chi^2/\text{NDF}$ :1264.9/6  
 All: 5.289+/-0.056  $\chi^2/\text{NDF}$ : 1562.4/12

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: 1.477 $\pm$ 0.055  $\chi^2$ /NDF:400.3/6

Right Out: 2.347 $\pm$ 0.123  $\chi^2$ /NDF: 329.8/17

Left In: 1.826 $\pm$ 0.053  $\chi^2$ /NDF:121.6/5

Left: 1.657 $\pm$ 0.038  $\chi^2$ /NDF: 542.7/12

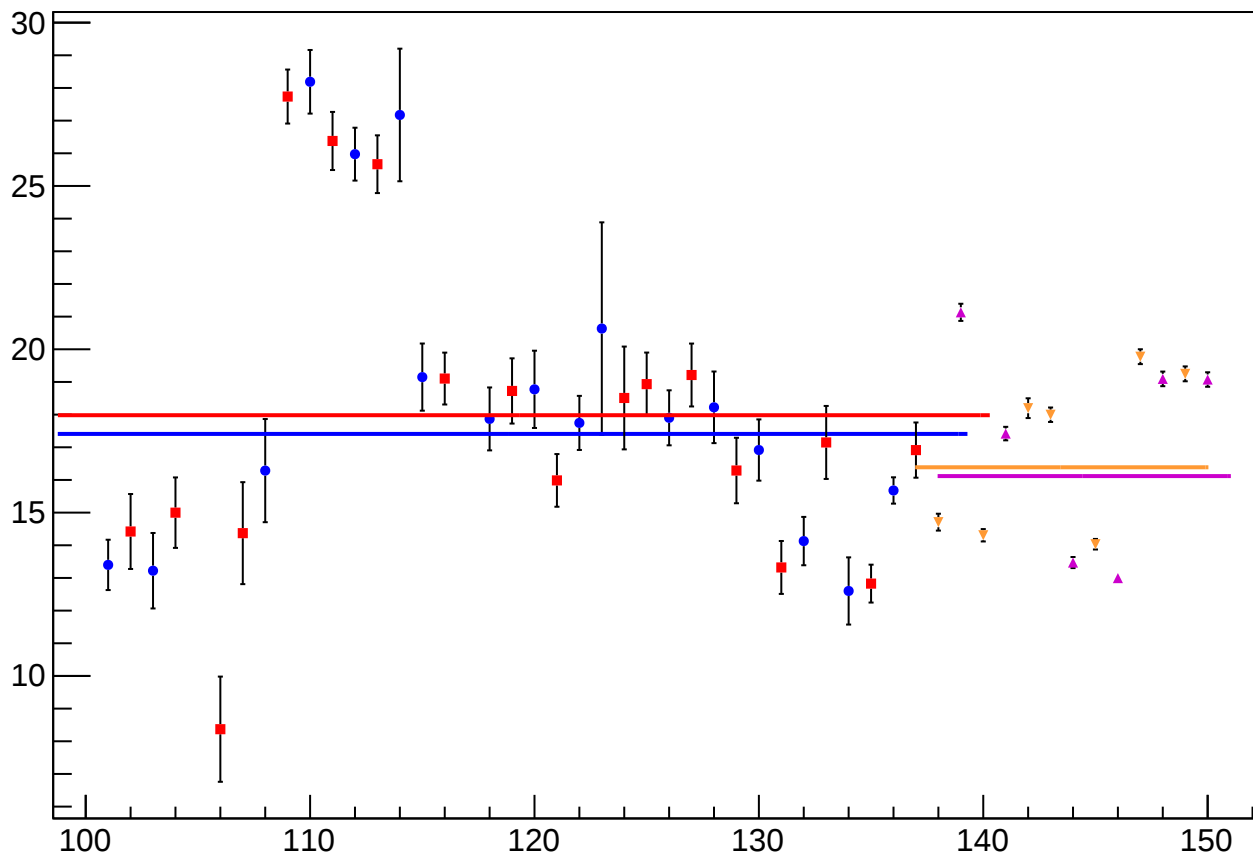
Right: 2.078 $\pm$ 0.084  $\chi^2$ /NDF: 633.0/34

In: 1.828 $\pm$ 0.048  $\chi^2$ /NDF:415.7/22

Out: 1.623 $\pm$ 0.050  $\chi^2$ /NDF:772.0/24

All: 1.729 $\pm$ 0.035  $\chi^2$ /NDF: 1196.4/47

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: 16.388 $\pm$ 0.081  $\chi^2$ /NDF:843.2/6

Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17

Left In: 16.118 $\pm$ 0.080  $\chi^2$ /NDF:1409.0/5

Left: 16.251 $\pm$ 0.057  $\chi^2$ /NDF: 2257.7/12

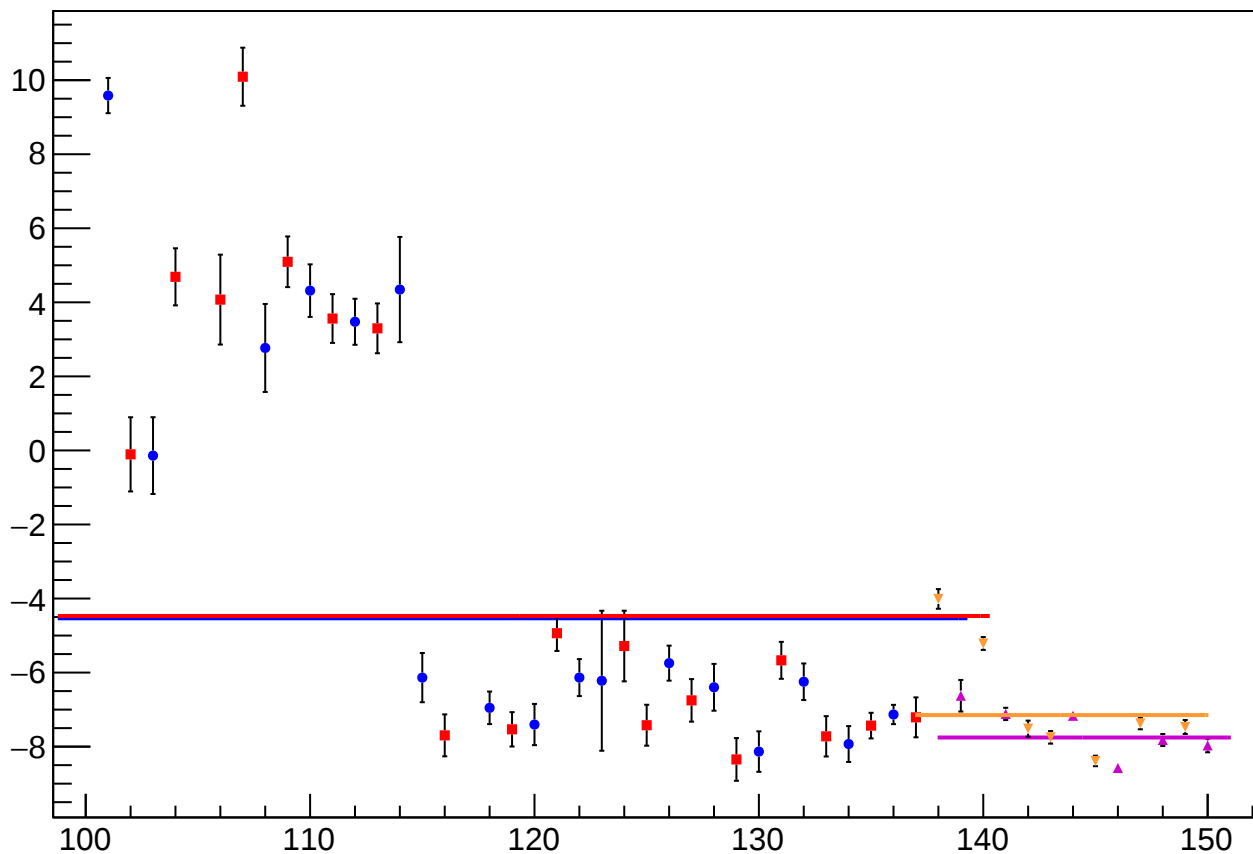
Right: 17.686 $\pm$ 0.152  $\chi^2$ /NDF: 859.3/34

In: 16.281 $\pm$ 0.075  $\chi^2$ /NDF:1806.5/22

Out: 16.581 $\pm$ 0.076  $\chi^2$ /NDF:1380.3/24

All: 16.429 $\pm$ 0.054  $\chi^2$ /NDF: 3194.7/47

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:  $-7.147 \pm 0.067$   $\chi^2/\text{NDF}$ : 358.5/6

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

Left In:  $-7.754 \pm 0.066$   $\chi^2/\text{NDF}$ : 86.4/5

Left:  $-7.457 \pm 0.047$   $\chi^2/\text{NDF}$ : 486.3/12

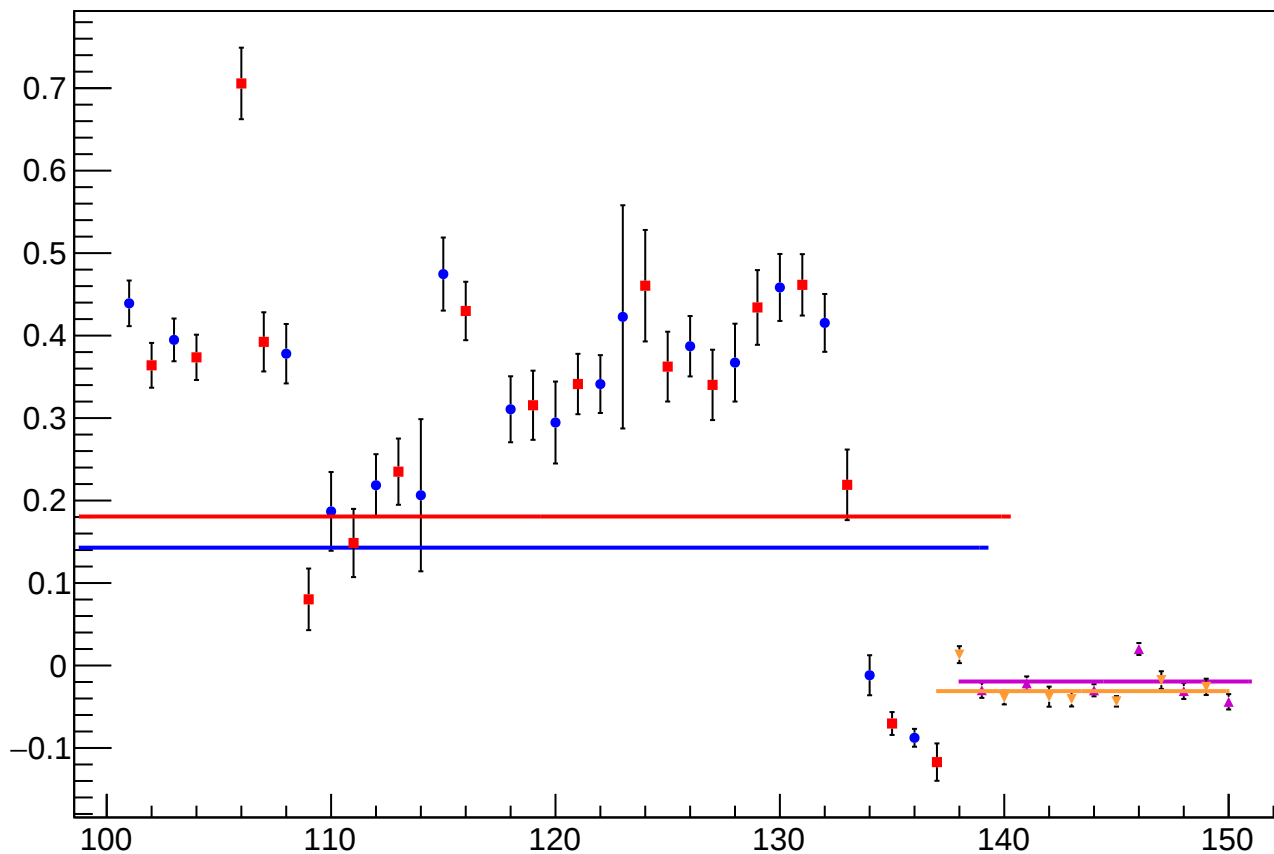
Right:  $-4.504 \pm 0.094$   $\chi^2/\text{NDF}$ : 2927.8/34

In:  $-7.090 \pm 0.059$   $\chi^2/\text{NDF}$ : 2164.7/22

Out:  $-6.625 \pm 0.060$   $\chi^2/\text{NDF}$ : 2005.4/24

All:  $-6.864 \pm 0.042$   $\chi^2/\text{NDF}$ : 4200.5/47

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:  $-0.031 \pm 0.003$   $\chi^2/\text{NDF}$ : 26.6/6

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 1003.7/17

Left In:  $-0.019 \pm 0.003$   $\chi^2/\text{NDF}$ : 41.7/5

Left:  $-0.025 \pm 0.002$   $\chi^2/\text{NDF}$ : 74.2/12

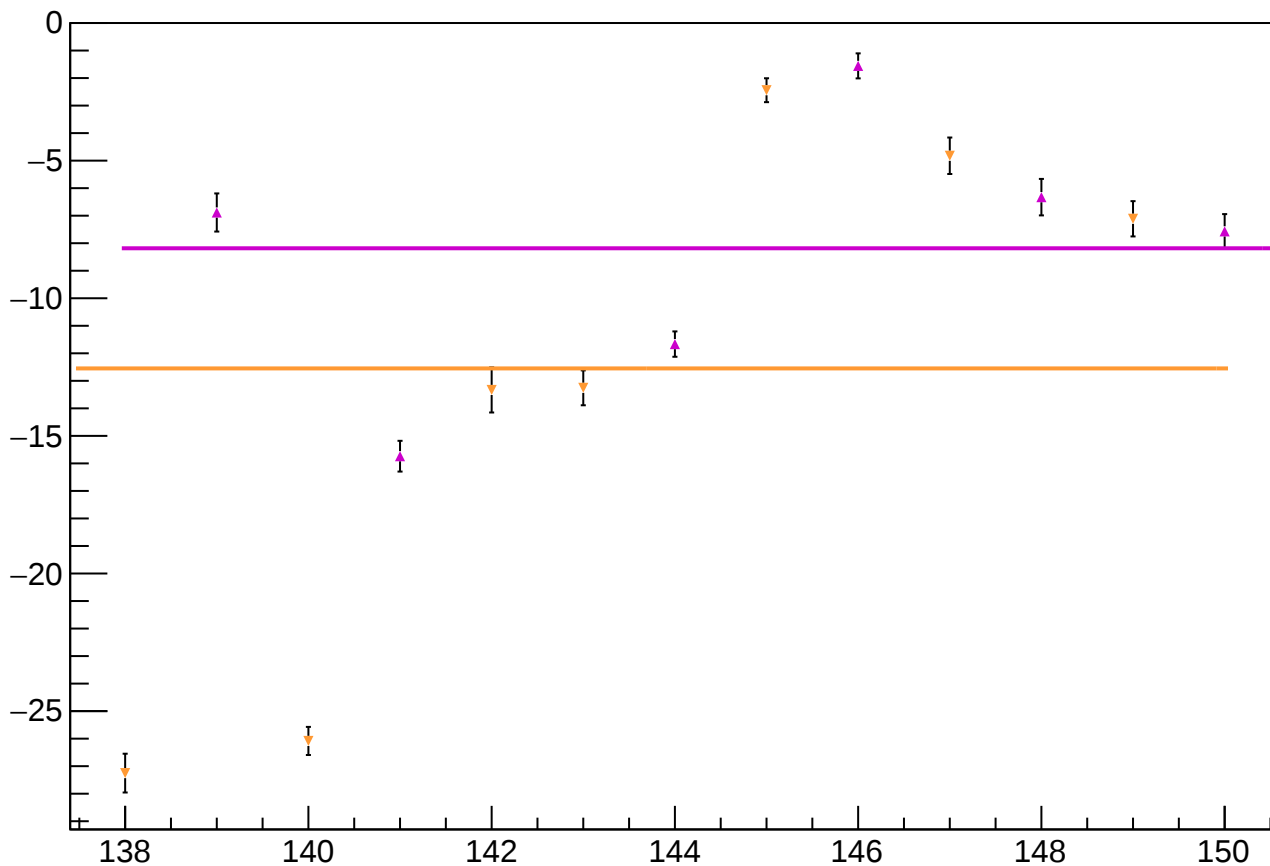
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}$ : 2076.2/34

In:  $0.011 \pm 0.003$   $\chi^2/\text{NDF}$ : 1529.4/22

Out:  $0.006 \pm 0.003$   $\chi^2/\text{NDF}$ : 1706.6/24

All:  $0.008 \pm 0.002$   $\chi^2/\text{NDF}$ : 3237.8/47

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -12.549+/-0.224  $\chi^2/\text{NDF}$ :1890.2/6

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

Left In: -8.184+/-0.226  $\chi^2/\text{NDF}$ :464.9/5

Left: -10.377+/-0.159  $\chi^2/\text{NDF}$ : 2543.3/12

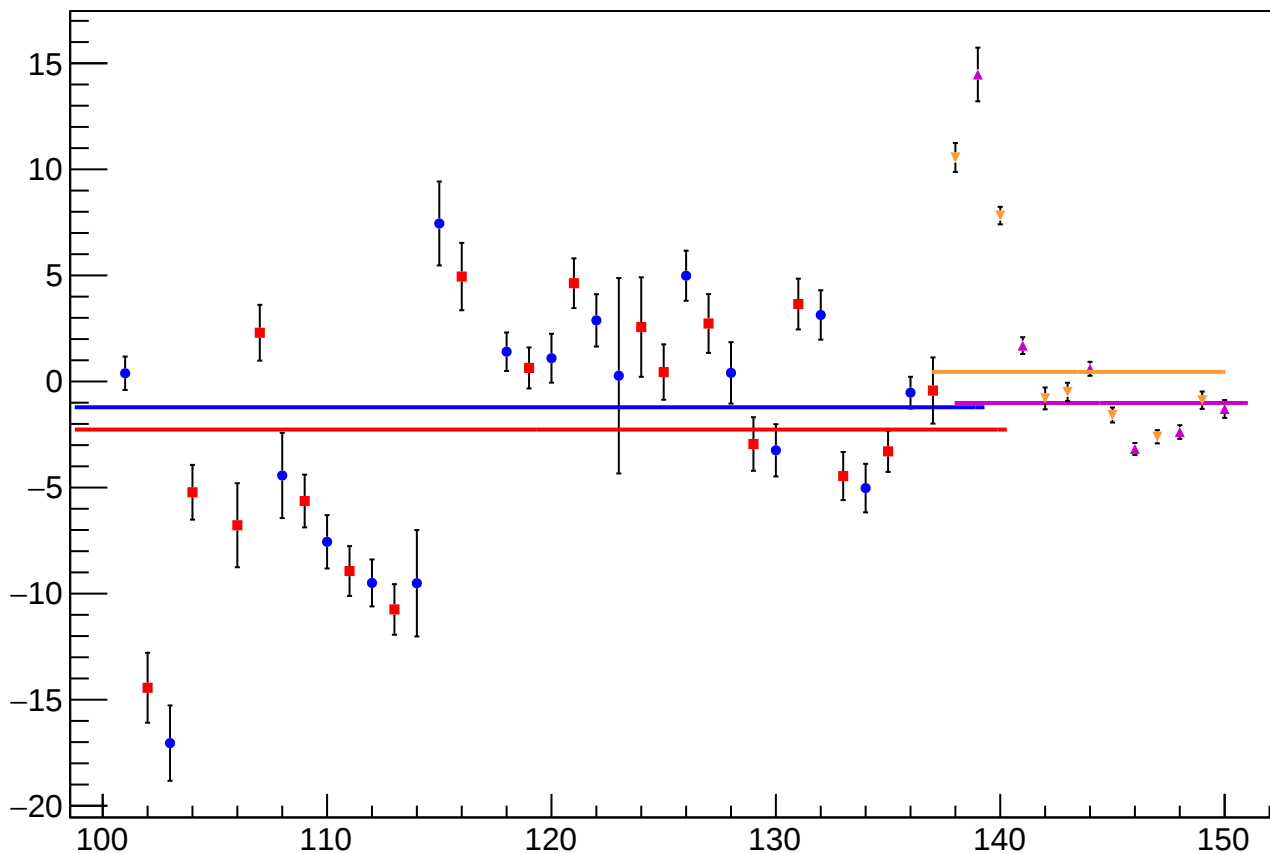
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.184+/-0.226  $\chi^2/\text{NDF}$ :464.9/5

Out: -12.549+/-0.224  $\chi^2/\text{NDF}$ :1890.2/6

All: -10.377+/-0.159  $\chi^2/\text{NDF}$ : 2543.3/12

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:  $0.450 \pm 0.156$   $\chi^2/\text{NDF}$ : 685.5/6

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

Left In:  $-1.012 \pm 0.151$   $\chi^2/\text{NDF}$ : 297.8/5

Left:  $-0.306 \pm 0.108$   $\chi^2/\text{NDF}$ : 1028.7/12

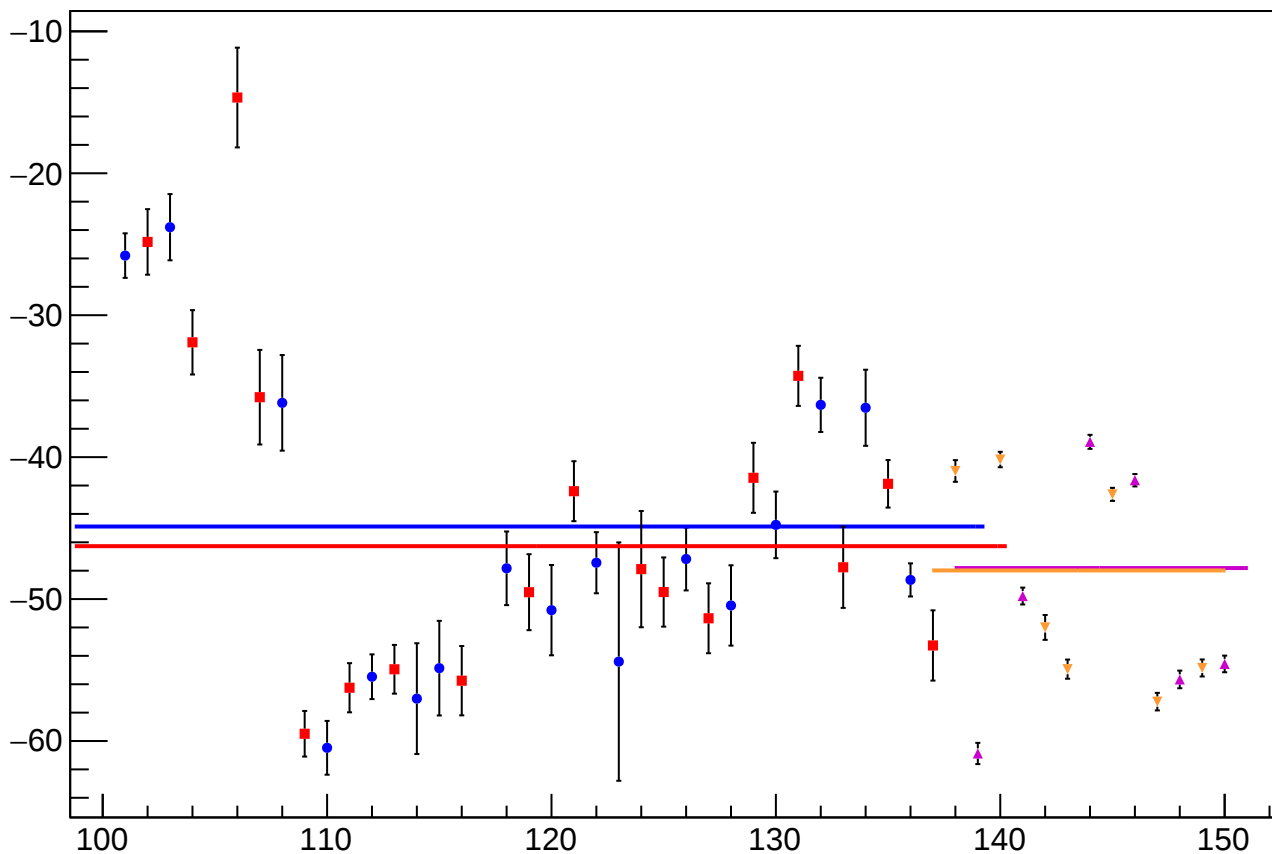
Right:  $-1.720 \pm 0.209$   $\chi^2/\text{NDF}$ : 568.9/34

In:  $-1.055 \pm 0.134$   $\chi^2/\text{NDF}$ : 576.9/22

Out:  $-0.120 \pm 0.139$   $\chi^2/\text{NDF}$ : 1033.1/24

All:  $-0.604 \pm 0.096$   $\chi^2/\text{NDF}$ : 1633.6/47

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:  $-47.982 \pm 0.231$   $\chi^2/\text{NDF}$ : 908.0/6

Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17

Left In:  $-47.814 \pm 0.227$   $\chi^2/\text{NDF}$ : 1133.2/5

Left:  $-47.897 \pm 0.162$   $\chi^2/\text{NDF}$ : 2041.5/12

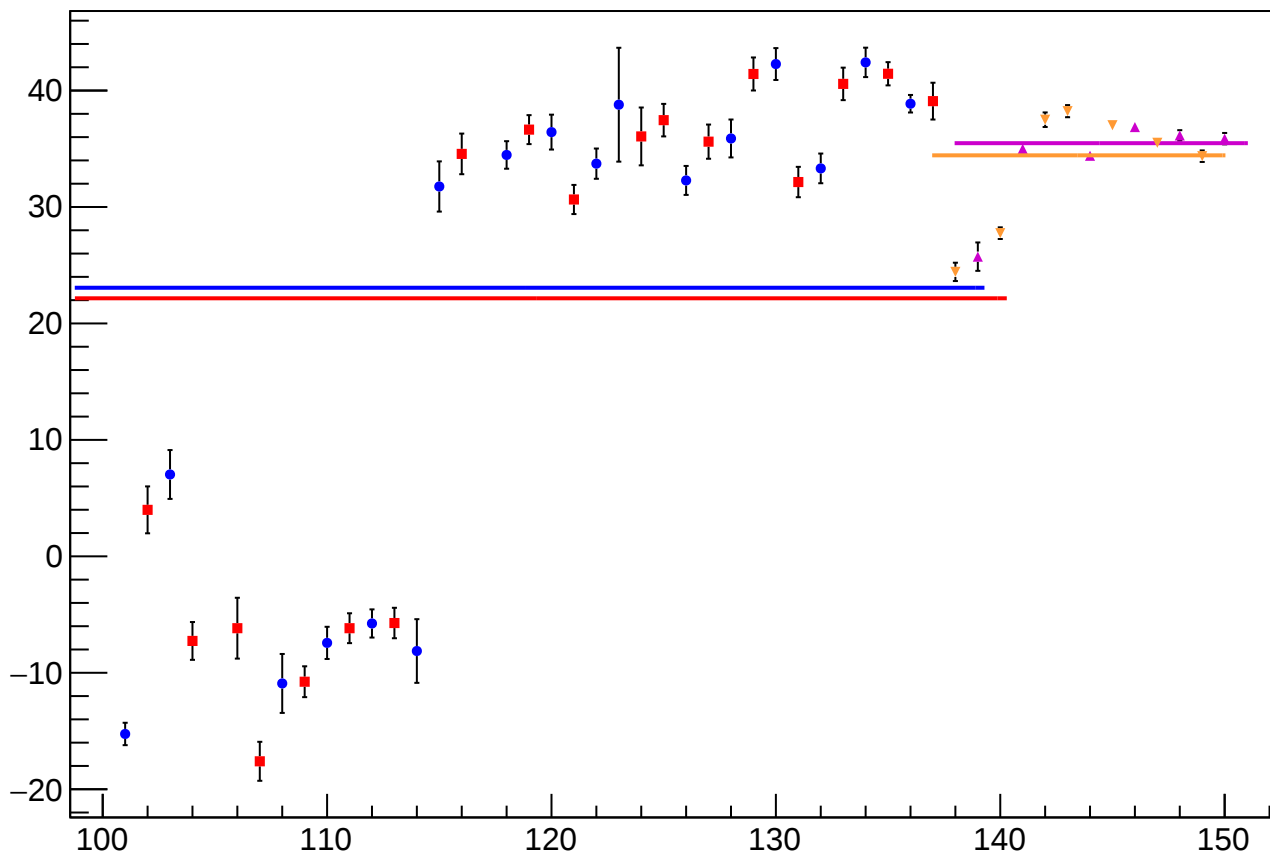
Right:  $-45.572 \pm 0.372$   $\chi^2/\text{NDF}$ : 844.4/34

In:  $-47.352 \pm 0.208$   $\chi^2/\text{NDF}$ : 1579.9/22

Out:  $-47.709 \pm 0.212$   $\chi^2/\text{NDF}$ : 1337.3/24

All:  $-47.527 \pm 0.148$   $\chi^2/\text{NDF}$ : 2918.7/47

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: 34.436 $\pm$ 0.192  $\chi^2$ /NDF:463.1/6

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

Left In: 35.480 $\pm$ 0.187  $\chi^2$ /NDF:90.6/5

Left: 34.971 $\pm$ 0.134  $\chi^2$ /NDF: 569.0/12

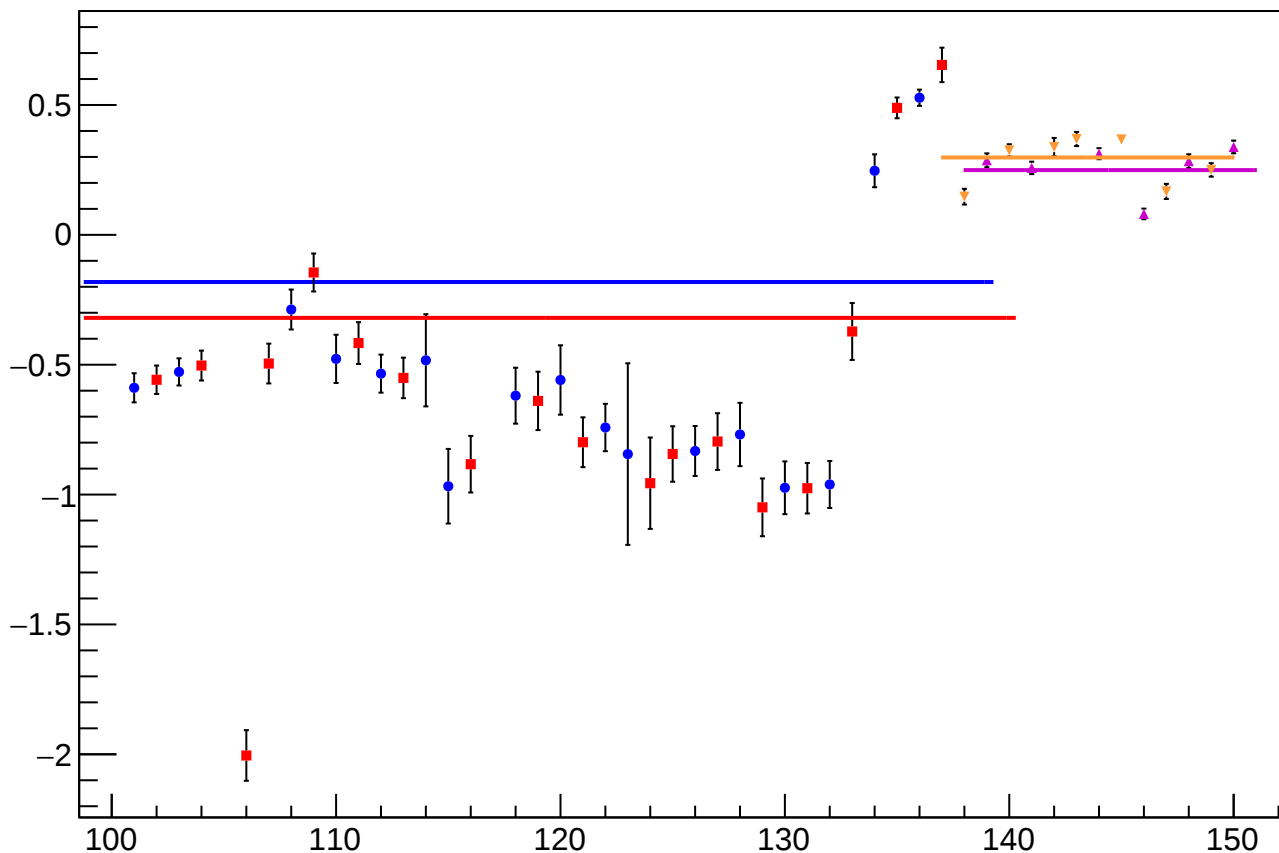
Right: 22.631 $\pm$ 0.236  $\chi^2$ /NDF: 8362.7/34

In: 32.418 $\pm$ 0.162  $\chi^2$ /NDF:5512.9/22

Out: 31.479 $\pm$ 0.167  $\chi^2$ /NDF:5478.4/24

All: 31.962 $\pm$ 0.116  $\chi^2$ /NDF: 11007.6/47

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:  $0.298 \pm 0.010$   $\chi^2/\text{NDF}$ : 72.6/6

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

Left In:  $0.249 \pm 0.010$   $\chi^2/\text{NDF}$ : 93.9/5

Left:  $0.274 \pm 0.007$   $\chi^2/\text{NDF}$ : 179.3/12

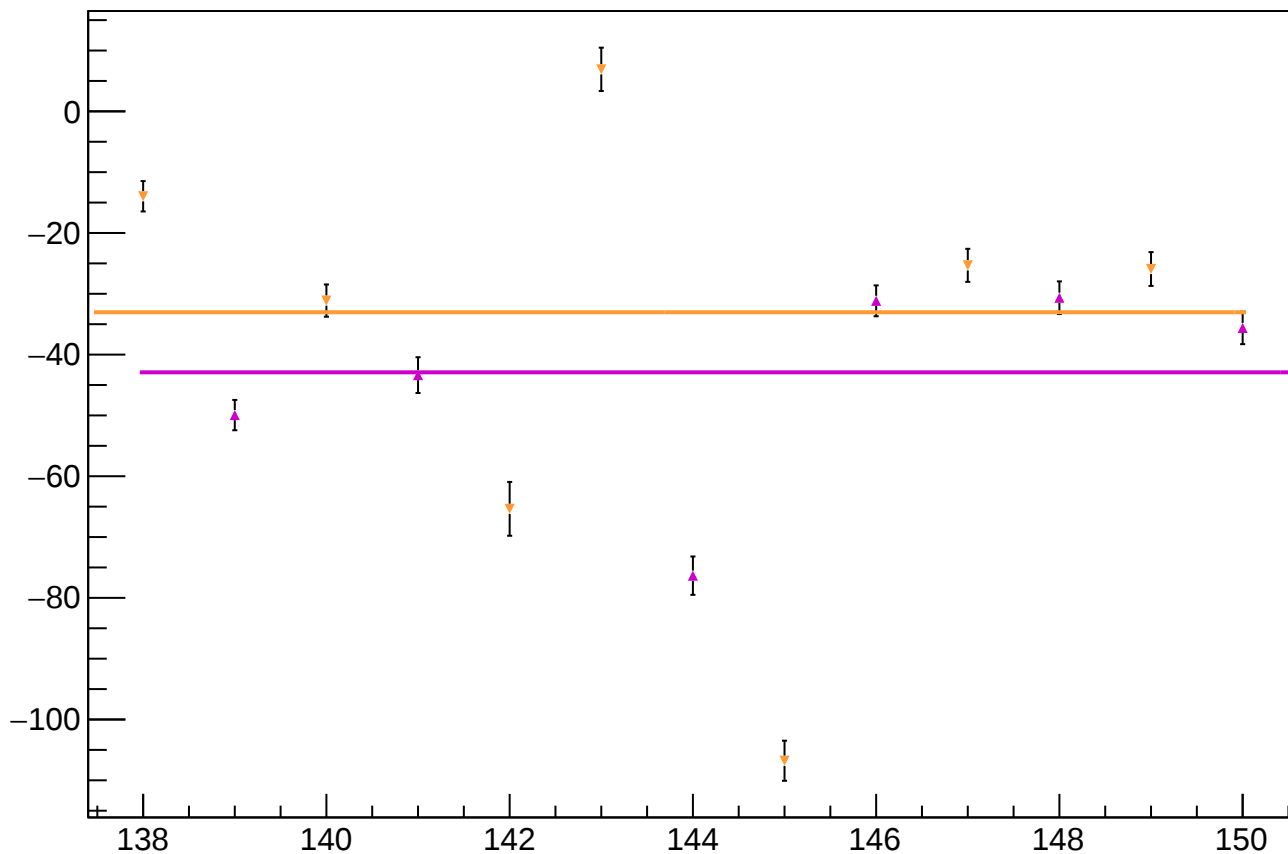
Right:  $-0.249 \pm 0.013$   $\chi^2/\text{NDF}$ : 2203.9/34

In:  $0.151 \pm 0.008$   $\chi^2/\text{NDF}$ : 1546.5/22

Out:  $0.163 \pm 0.009$   $\chi^2/\text{NDF}$ : 2148.0/24

All:  $0.157 \pm 0.006$   $\chi^2/\text{NDF}$ : 3695.4/47

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -33.036+/-1.126  $\chi^2/\text{NDF}$ :752.8/6

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

Left In: -42.915+/-1.110  $\chi^2/\text{NDF}$ :170.2/5

Left: -38.045+/-0.791  $\chi^2/\text{NDF}$ : 962.1/12

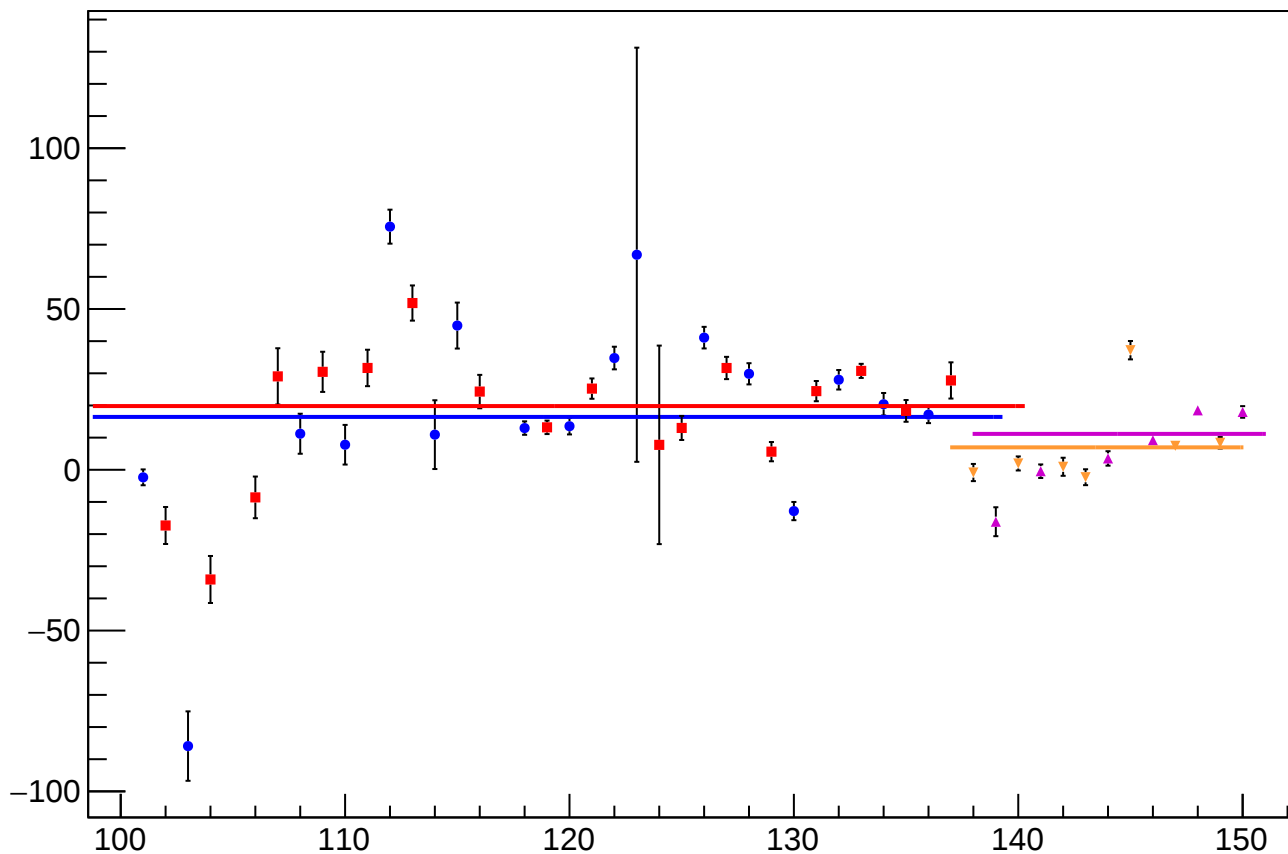
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.915+/-1.110  $\chi^2/\text{NDF}$ :170.2/5

Out: -33.036+/-1.126  $\chi^2/\text{NDF}$ :752.8/6

All: -38.045+/-0.791  $\chi^2/\text{NDF}$ : 962.1/12

reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $16.439 \pm 0.849$   $\chi^2/\text{NDF}: 516.9/16$

Left Out:  $6.975 \pm 0.773$   $\chi^2/\text{NDF}: 145.1/6$

Right Out:  $19.813 \pm 0.899$   $\chi^2/\text{NDF}: 238.5/17$

Left In:  $11.162 \pm 0.741$   $\chi^2/\text{NDF}: 126.2/5$

Left:  $9.156 \pm 0.535$   $\chi^2/\text{NDF}: 286.6/12$

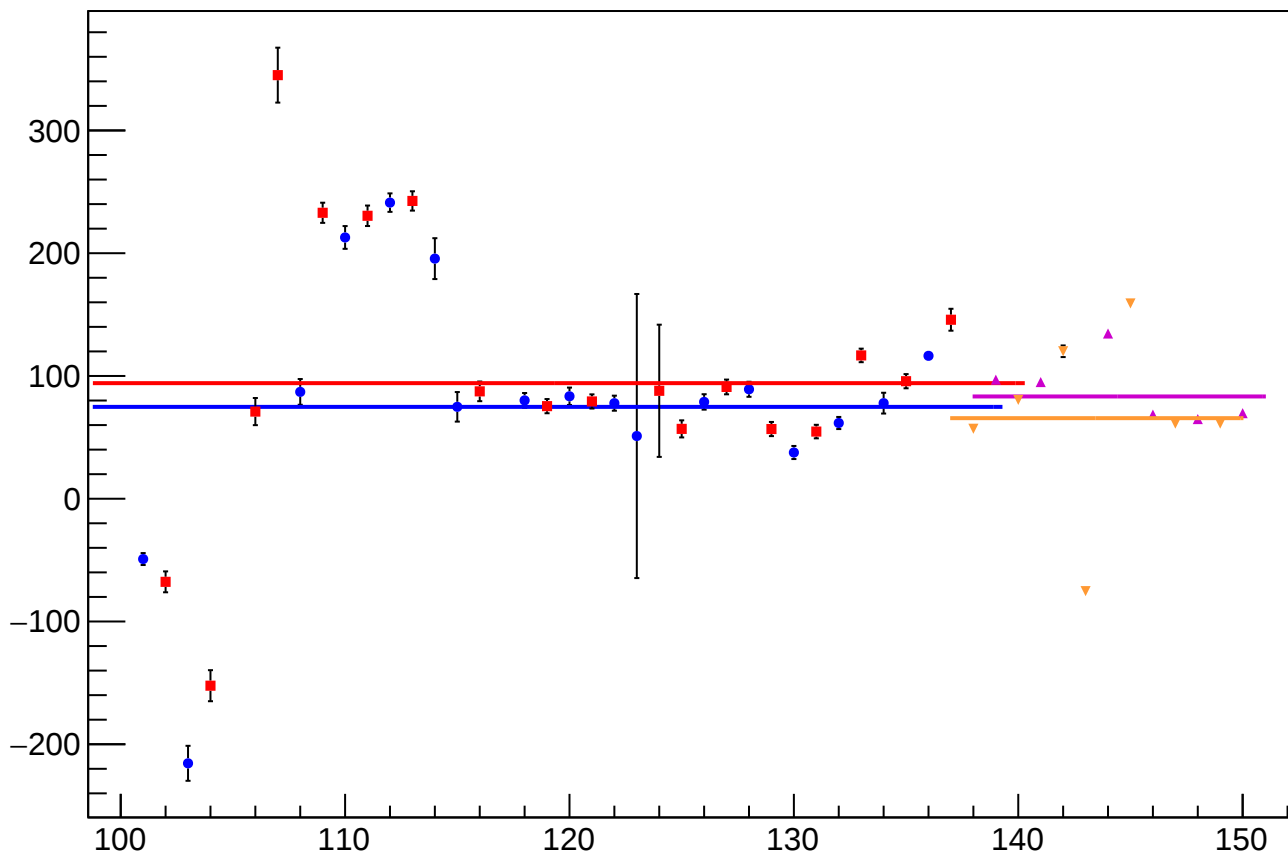
Right:  $18.028 \pm 0.617$   $\chi^2/\text{NDF}: 762.9/34$

In:  $13.445 \pm 0.558$   $\chi^2/\text{NDF}: 665.1/22$

Out:  $12.431 \pm 0.586$   $\chi^2/\text{NDF}: 500.8/24$

All:  $12.963 \pm 0.404$   $\chi^2/\text{NDF}: 1167.5/47$

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 74.824 $\pm$ 1.639  $\chi^2/\text{NDF}$ : 1996.8/16

Left Out: 65.633 $\pm$ 1.144  $\chi^2/\text{NDF}$ : 2294.5/6

Right Out: 94.153 $\pm$ 1.720  $\chi^2/\text{NDF}$ : 1969.2/17

Left In: 83.313 $\pm$ 1.108  $\chi^2/\text{NDF}$ : 391.3/5

Left: 74.762 $\pm$ 0.796  $\chi^2/\text{NDF}$ : 2809.1/12

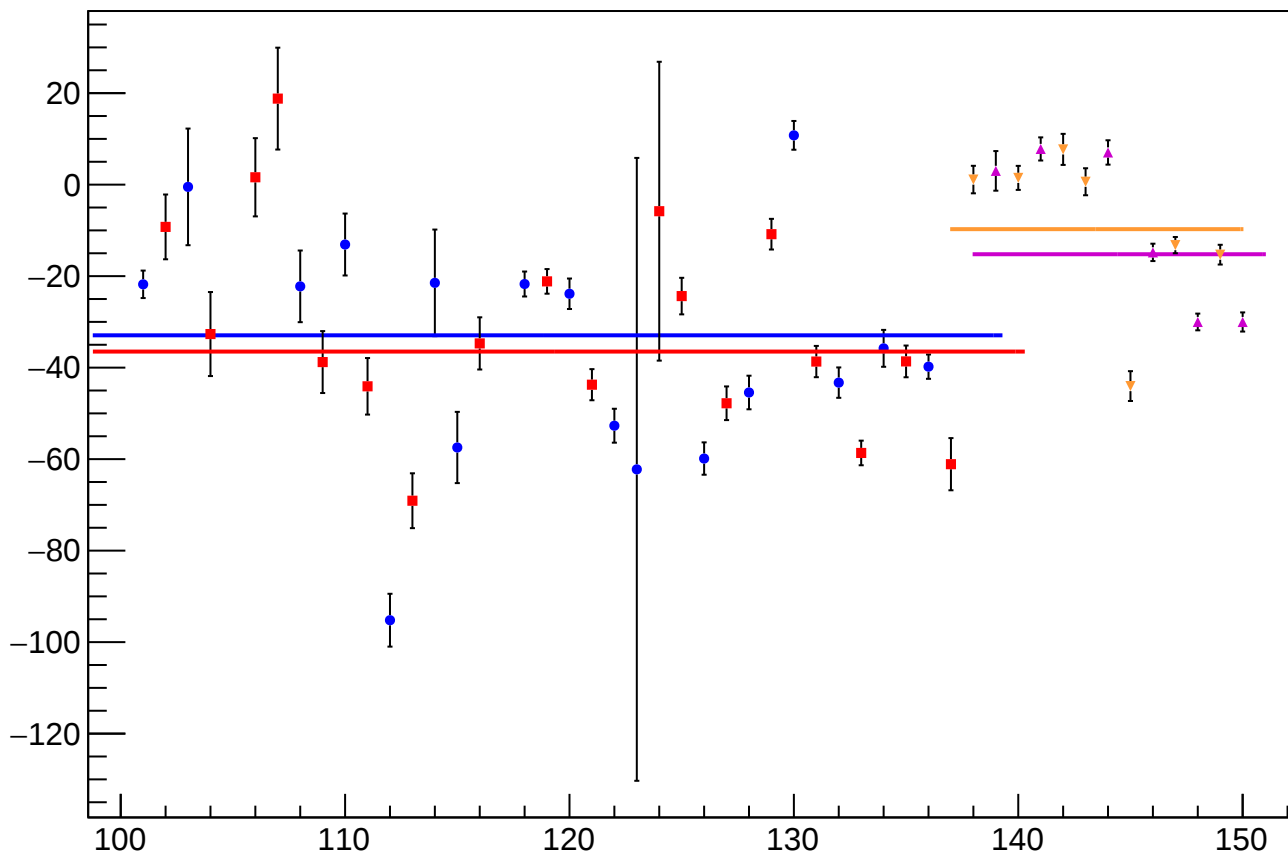
Right: 84.020 $\pm$ 1.186  $\chi^2/\text{NDF}$ : 4032.2/34

In: 80.651 $\pm$ 0.918  $\chi^2/\text{NDF}$ : 2406.5/22

Out: 74.384 $\pm$ 0.953  $\chi^2/\text{NDF}$ : 4454.3/24

All: 77.635 $\pm$ 0.661  $\chi^2/\text{NDF}$ : 6883.3/47

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:  $-9.730 \pm 0.961$   $\chi^2/\text{NDF}: 191.1/6$

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}: 293.2/17$

Left In:  $-15.212 \pm 0.930$   $\chi^2/\text{NDF}: 286.1/5$

Left:  $-12.561 \pm 0.668$   $\chi^2/\text{NDF}: 494.0/12$

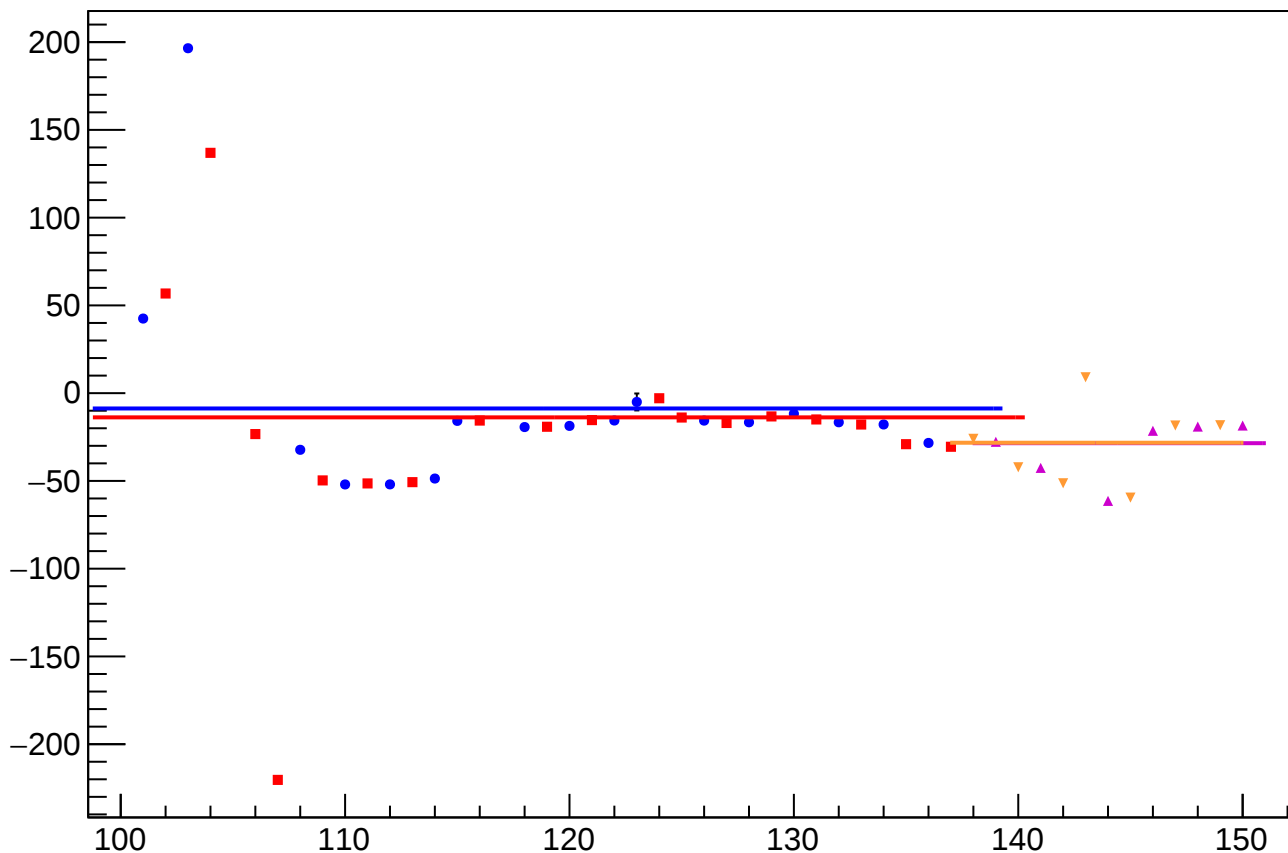
Right:  $-34.617 \pm 0.706$   $\chi^2/\text{NDF}: 790.3/34$

In:  $-23.670 \pm 0.672$   $\chi^2/\text{NDF}: 950.1/22$

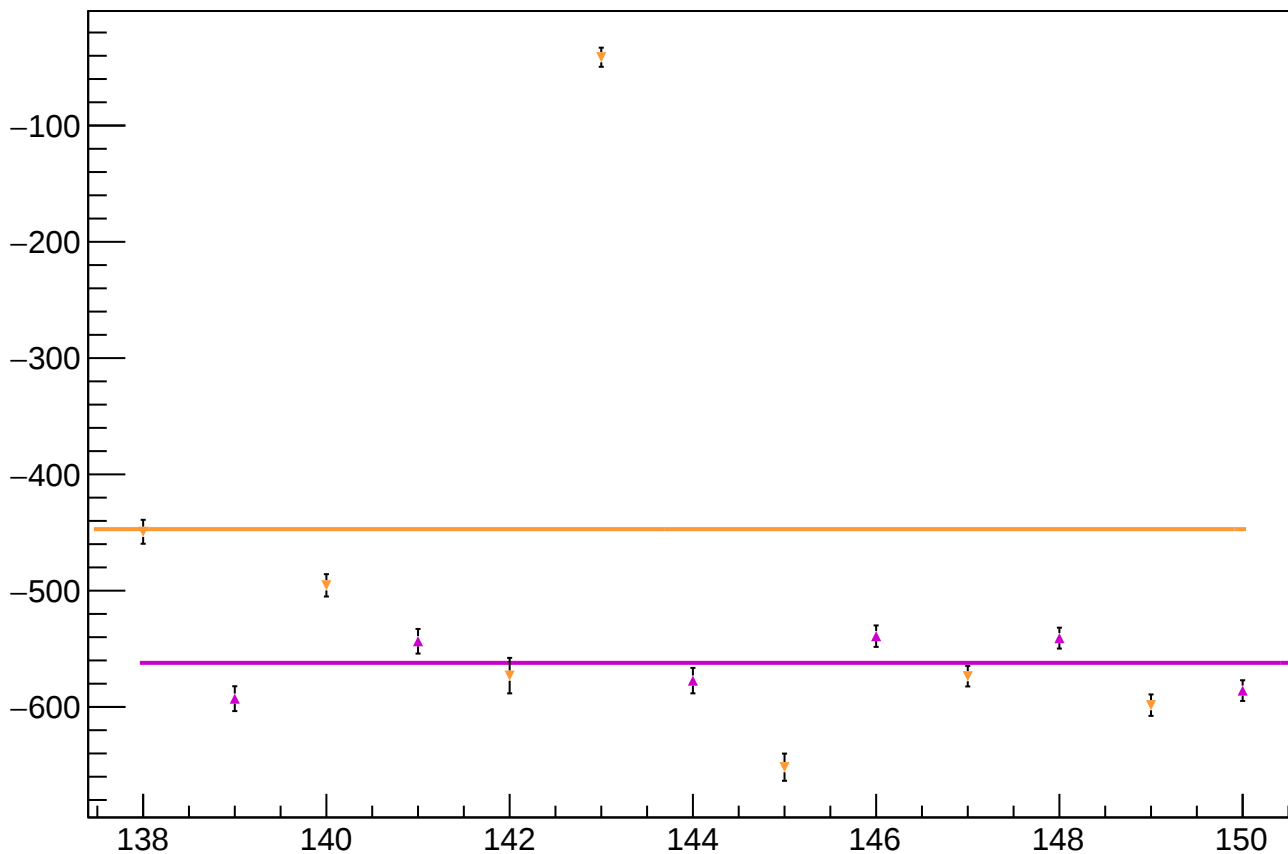
Out:  $-22.228 \pm 0.702$   $\chi^2/\text{NDF}: 846.3/24$

All:  $-22.980 \pm 0.485$   $\chi^2/\text{NDF}: 1798.7/47$

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



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: -447.070+/-3.743  $\chi^2/\text{NDF}$ :3310.2/6

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

Left In: -562.073+/-3.990  $\chi^2/\text{NDF}$ :32.3/5

Left: -500.910+/-2.730  $\chi^2/\text{NDF}$ : 3784.5/12

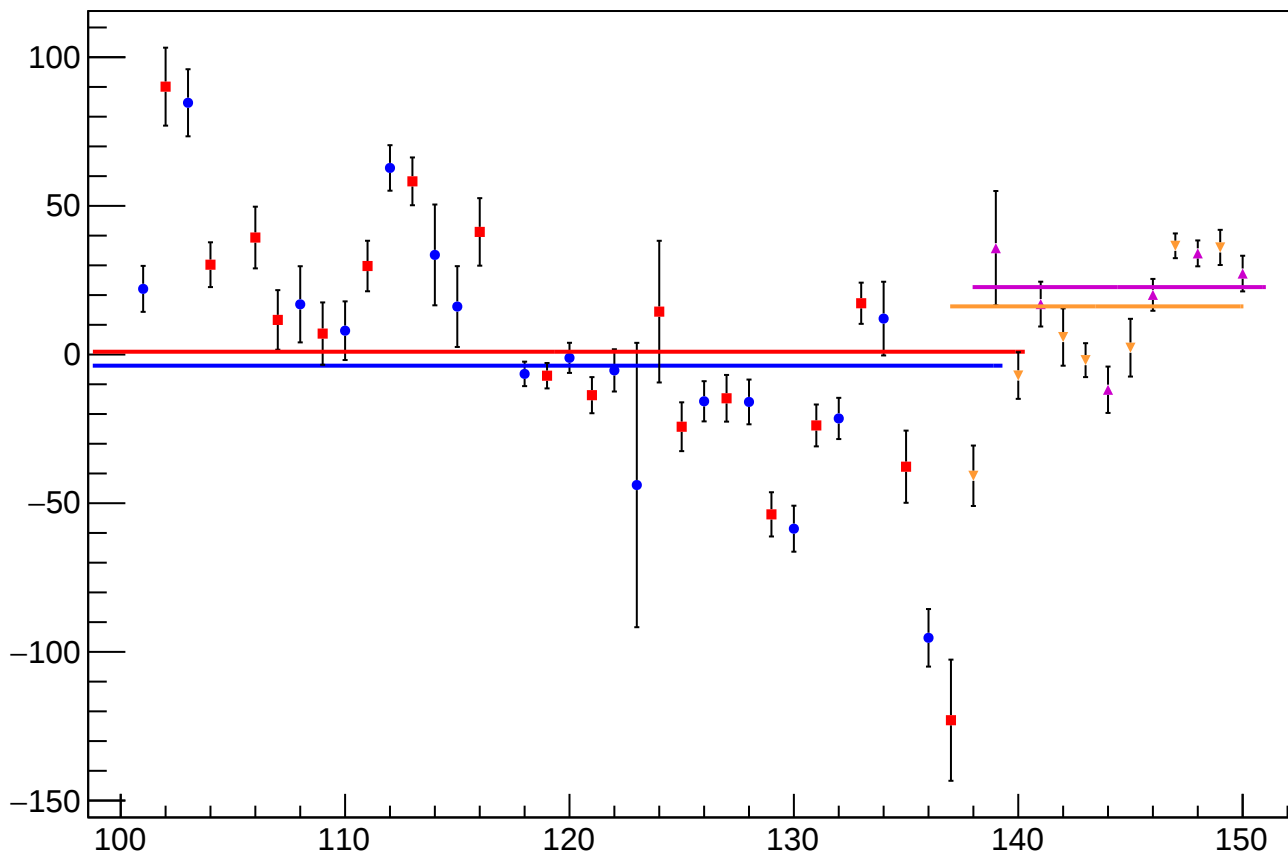
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -562.073+/-3.990  $\chi^2/\text{NDF}$ :32.3/5

Out: -447.070+/-3.743  $\chi^2/\text{NDF}$ :3310.2/6

All: -500.910+/-2.730  $\chi^2/\text{NDF}$ : 3784.5/12

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:  $16.199 \pm 2.467$   $\chi^2/\text{NDF}: 88.6/6$

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}: 293.7/17$

Left In:  $22.686 \pm 2.564$   $\chi^2/\text{NDF}: 28.2/5$

Left:  $19.318 \pm 1.777$   $\chi^2/\text{NDF}: 120.2/12$

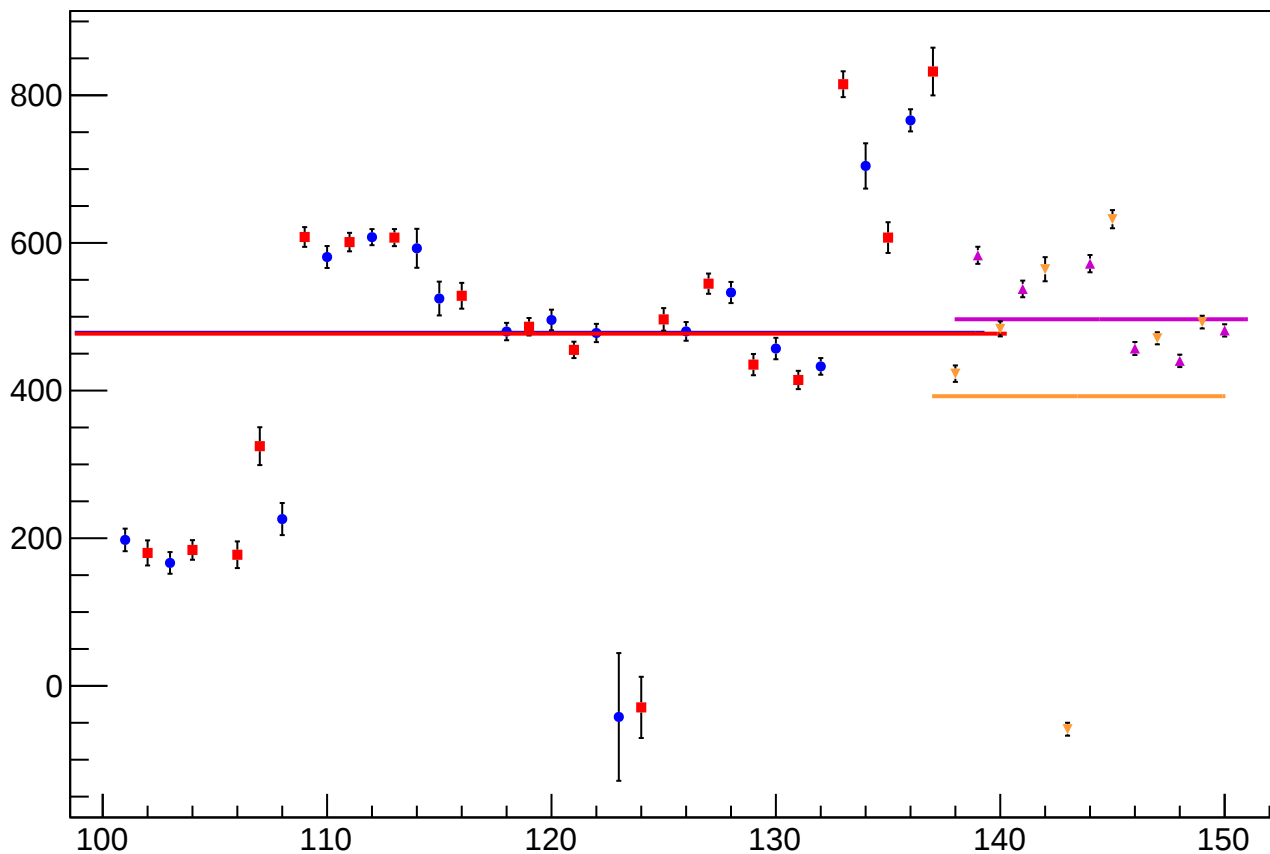
Right:  $-1.430 \pm 1.347$   $\chi^2/\text{NDF}: 610.8/34$

In:  $5.575 \pm 1.522$   $\chi^2/\text{NDF}: 411.1/22$

Out:  $6.695 \pm 1.514$   $\chi^2/\text{NDF}: 406.1/24$

All:  $6.138 \pm 1.074$   $\chi^2/\text{NDF}: 817.6/47$

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.265+/-3.638  $\chi^2/\text{NDF}$ : 1627.9/16

Left Out: 392.380+/-3.801  $\chi^2/\text{NDF}$ :3447.8/6

Right Out: 477.101+/-3.541  $\chi^2/\text{NDF}$ : 2175.8/17

Left In: 496.595+/-3.950  $\chi^2/\text{NDF}$ :179.0/5

Left: 442.480+/-2.739  $\chi^2/\text{NDF}$ : 3988.3/12

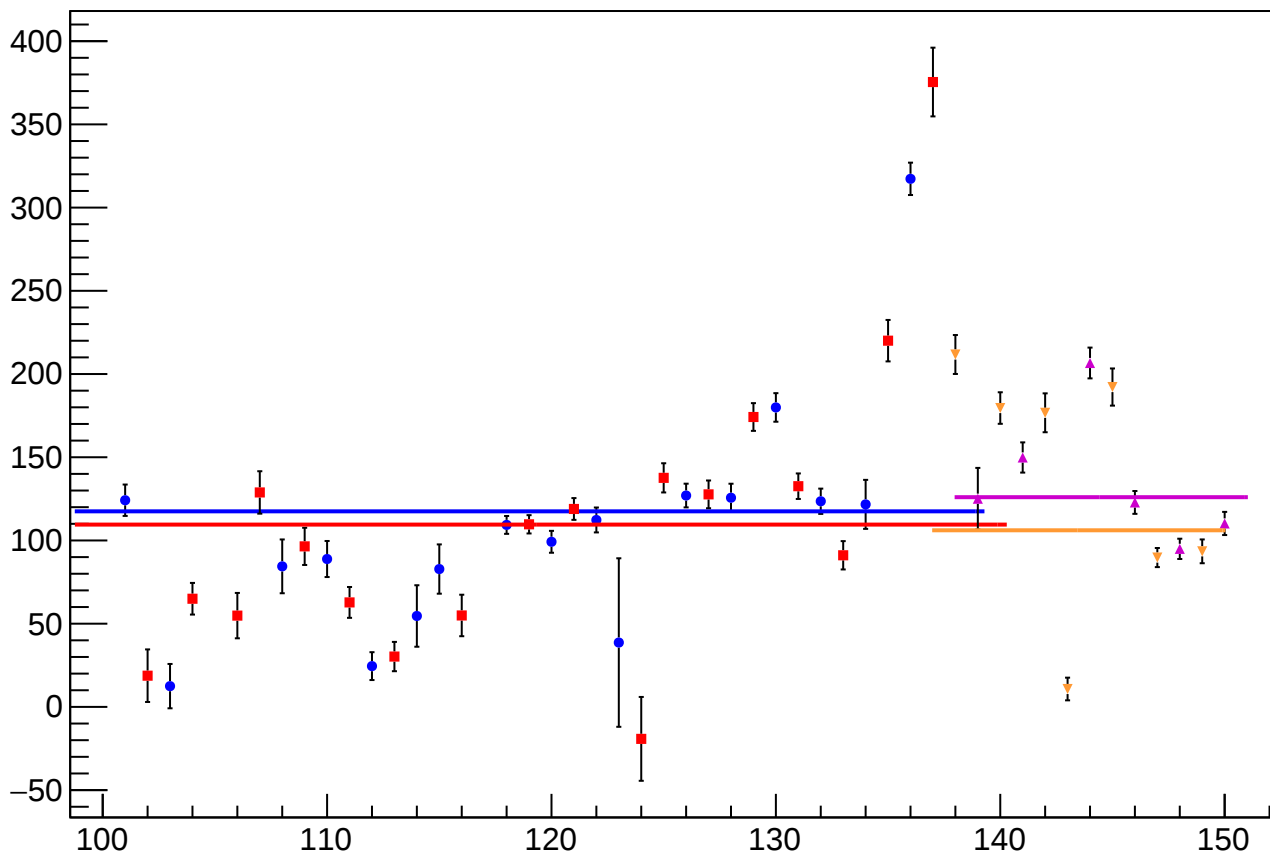
Right: 477.667+/-2.538  $\chi^2/\text{NDF}$ : 3803.8/34

In: 486.678+/-2.676  $\chi^2/\text{NDF}$ :1818.6/22

Out: 437.728+/-2.591  $\chi^2/\text{NDF}$ :5889.6/24

All: 461.413+/-1.861  $\chi^2/\text{NDF}$ : 7880.9/47

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $117.502 \pm 2.198$   $\chi^2/\text{NDF}: 705.9/16$

Left Out:  $106.112 \pm 3.083$   $\chi^2/\text{NDF}: 444.6/6$

Right Out:  $109.536 \pm 2.208$   $\chi^2/\text{NDF}: 562.2/17$

Left In:  $126.005 \pm 3.234$   $\chi^2/\text{NDF}: 114.2/5$

Left:  $115.581 \pm 2.231$   $\chi^2/\text{NDF}: 578.6/12$

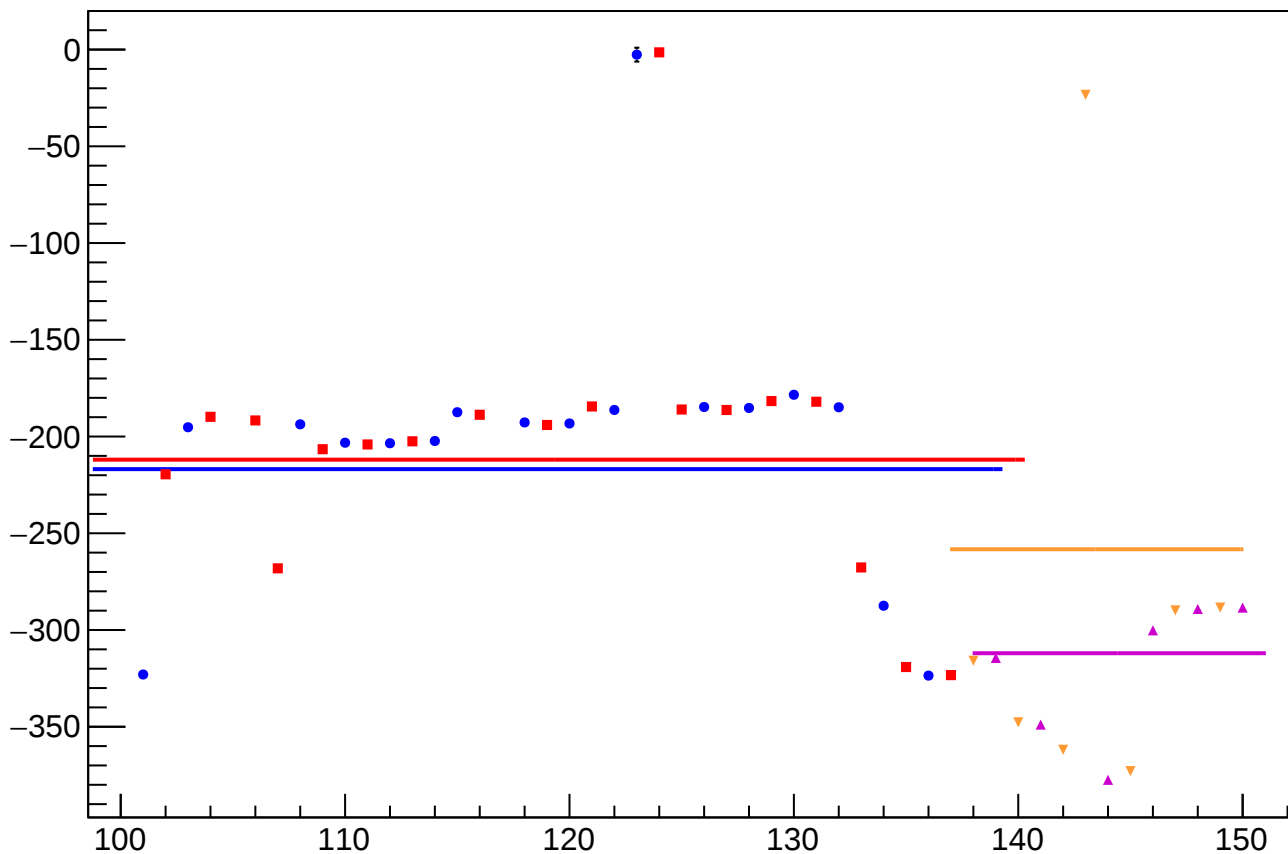
Right:  $113.538 \pm 1.558$   $\chi^2/\text{NDF}: 1274.7/34$

In:  $120.188 \pm 1.818$   $\chi^2/\text{NDF}: 824.9/22$

Out:  $108.375 \pm 1.795$   $\chi^2/\text{NDF}: 1007.6/24$

All:  $114.208 \pm 1.277$   $\chi^2/\text{NDF}: 1853.8/47$

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -216.855+/-0.136  $\chi^2/\text{NDF}$ : 146927.1/16

Left Out: -258.263+/-0.161  $\chi^2/\text{NDF}$ : 595349.4/6

Right Out: -211.961+/-0.131  $\chi^2/\text{NDF}$ : 112091.8/17

Left In: -311.997+/-0.165  $\chi^2/\text{NDF}$ : 32339.2/5

Left: -284.448+/-0.115  $\chi^2/\text{NDF}$ : 681874.1/12

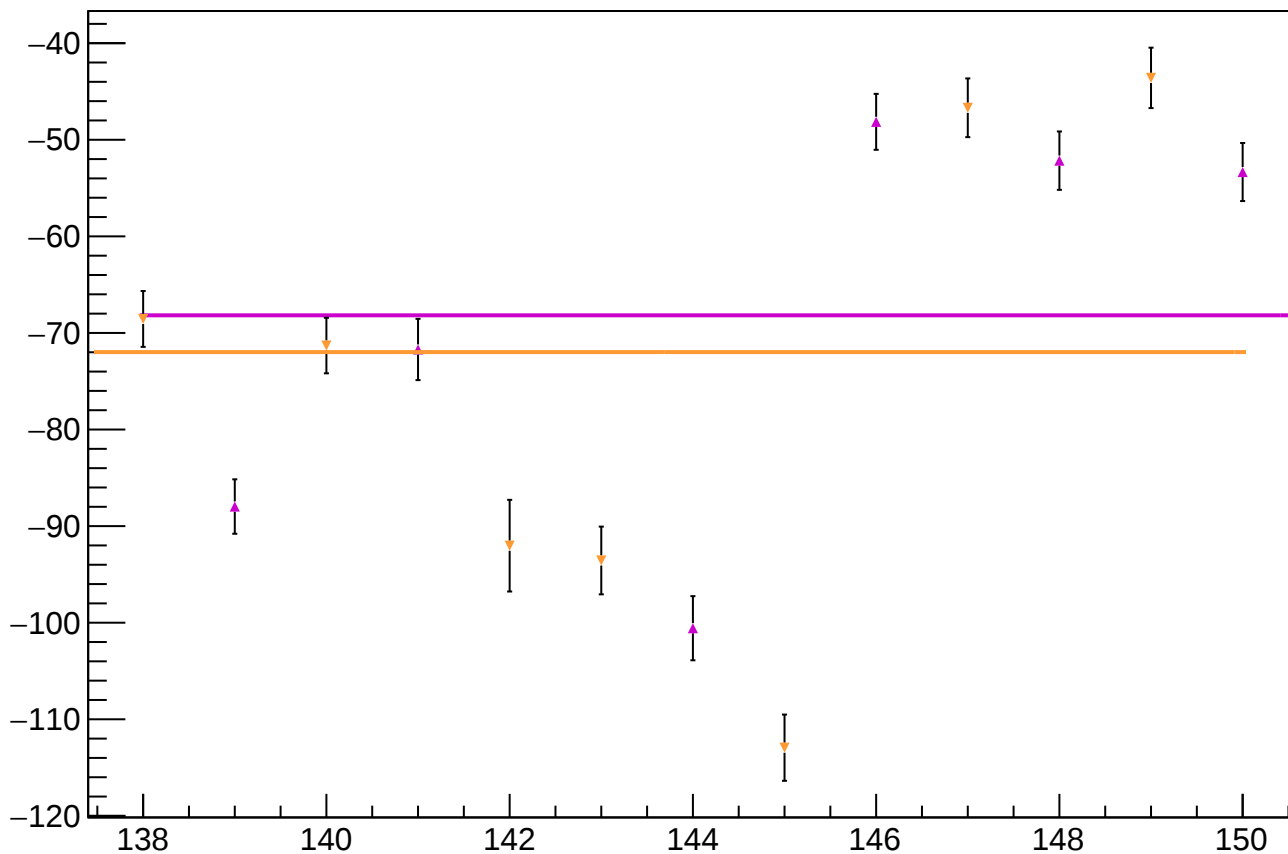
Right: -214.313+/-0.094  $\chi^2/\text{NDF}$ : 259693.1/34

In: -255.216+/-0.105  $\chi^2/\text{NDF}$ : 377006.7/22

Out: -230.326+/-0.101  $\chi^2/\text{NDF}$ : 757252.7/24

All: -242.354+/-0.073  $\chi^2/\text{NDF}$ : 1163323.6/47

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: -71.980+/-1.229  $\chi^2/\text{NDF}$ :351.5/6

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

Left In: -68.175+/-1.235  $\chi^2/\text{NDF}$ :246.1/5

Left: -70.087+/-0.871  $\chi^2/\text{NDF}$ : 602.4/12

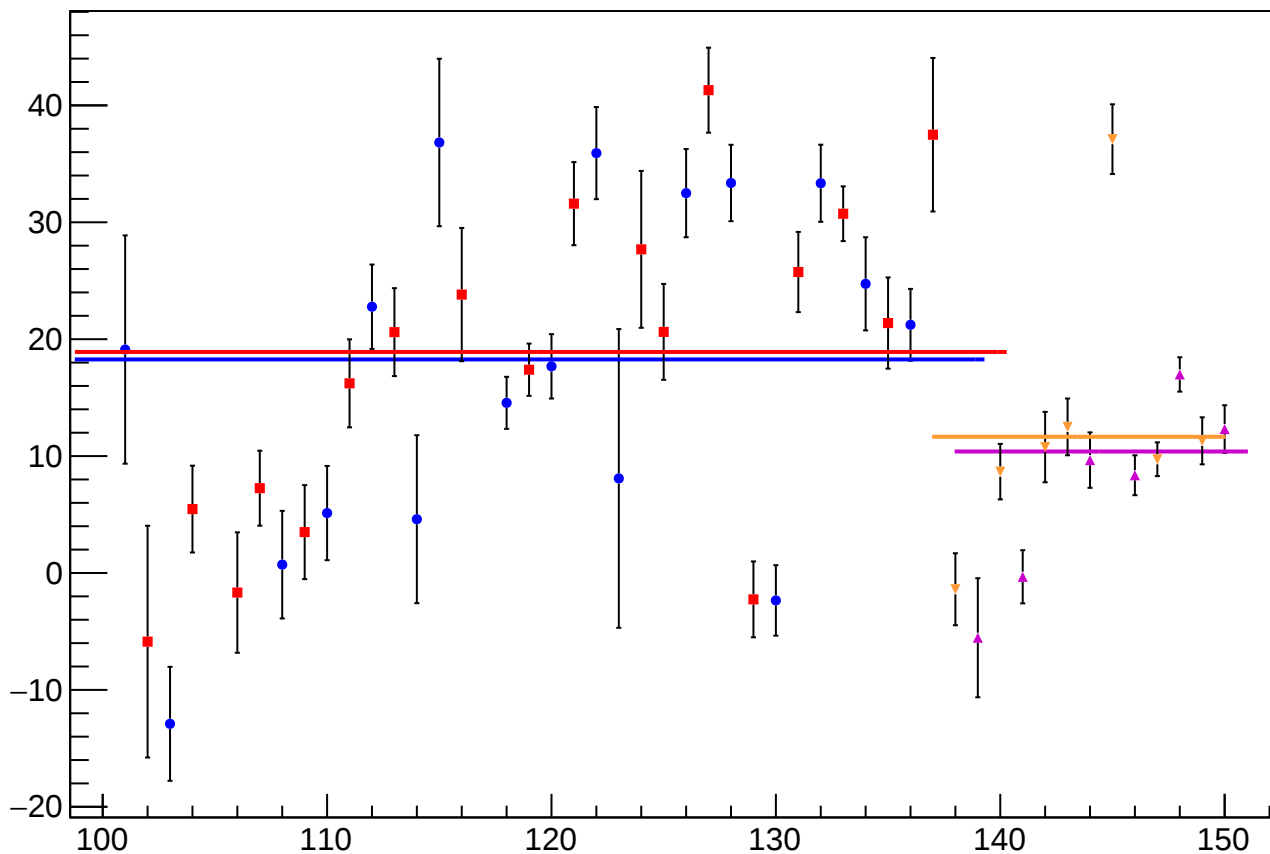
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -68.175+/-1.235  $\chi^2/\text{NDF}$ :246.1/5

Out: -71.980+/-1.229  $\chi^2/\text{NDF}$ :351.5/6

All: -70.087+/-0.871  $\chi^2/\text{NDF}$ : 602.4/12

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.269 $\pm$ 0.907  $\chi^2$ /NDF: 208.3/16

Left Out: 11.651 $\pm$ 0.845  $\chi^2$ /NDF:94.4/6

Right Out: 18.909 $\pm$ 0.864  $\chi^2$ /NDF: 198.1/17

Left In: 10.394 $\pm$ 0.828  $\chi^2$ /NDF:54.5/5

Left: 11.010 $\pm$ 0.591  $\chi^2$ /NDF: 150.1/12

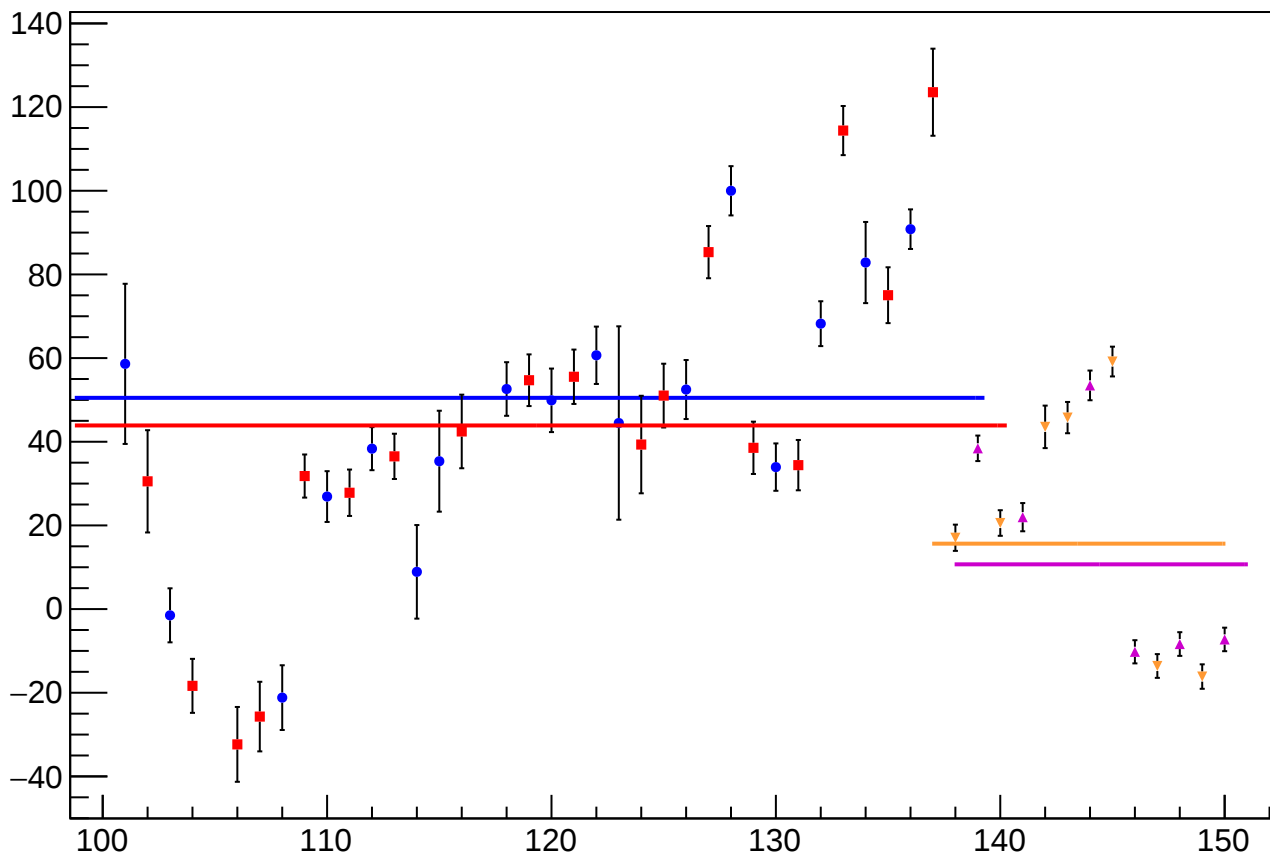
Right: 18.605 $\pm$ 0.626  $\chi^2$ /NDF: 406.7/34

In: 13.976 $\pm$ 0.612  $\chi^2$ /NDF:303.9/22

Out: 15.197 $\pm$ 0.604  $\chi^2$ /NDF:328.6/24

All: 14.594 $\pm$ 0.430  $\chi^2$ /NDF: 634.6/47

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 50.497 $\pm$ 1.671  $\chi^2$ /NDF: 363.2/16

Left Out: 15.639 $\pm$ 1.252  $\chi^2$ /NDF:471.5/6

Right Out: 43.895 $\pm$ 1.604  $\chi^2$ /NDF: 531.7/17

Left In: 10.695 $\pm$ 1.235  $\chi^2$ /NDF:381.9/5

Left: 13.133 $\pm$ 0.879  $\chi^2$ /NDF: 861.4/12

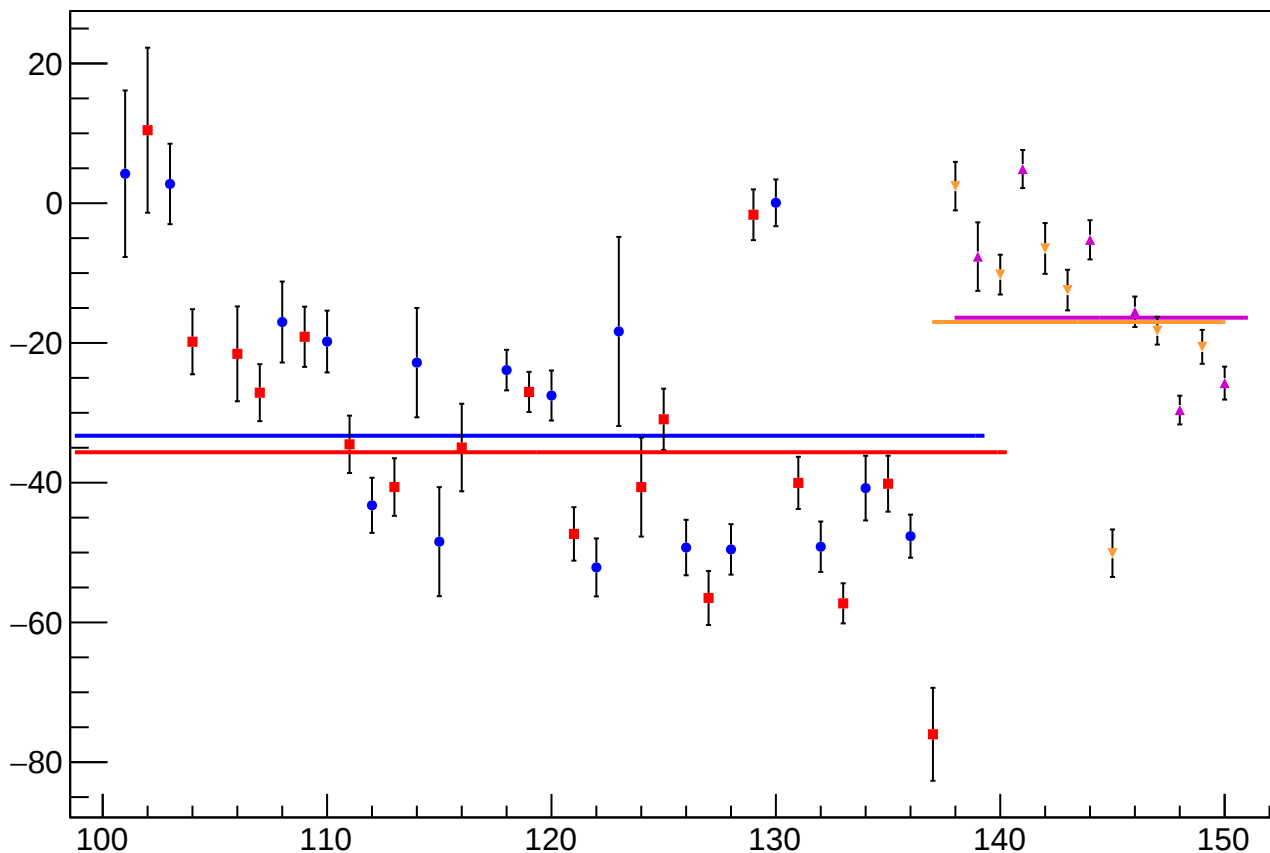
Right: 47.060 $\pm$ 1.157  $\chi^2$ /NDF: 903.0/34

In: 24.752 $\pm$ 0.993  $\chi^2$ /NDF:1112.2/22

Out: 26.335 $\pm$ 0.987  $\chi^2$ /NDF:1196.1/24

All: 25.549 $\pm$ 0.700  $\chi^2$ /NDF: 2309.6/47

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:  $-17.003 \pm 1.049$   $\chi^2/\text{NDF}$ : 145.3/6

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

Left In:  $-16.384 \pm 1.037$   $\chi^2/\text{NDF}$ : 137.1/5

Left:  $-16.690 \pm 0.737$   $\chi^2/\text{NDF}$ : 282.6/12

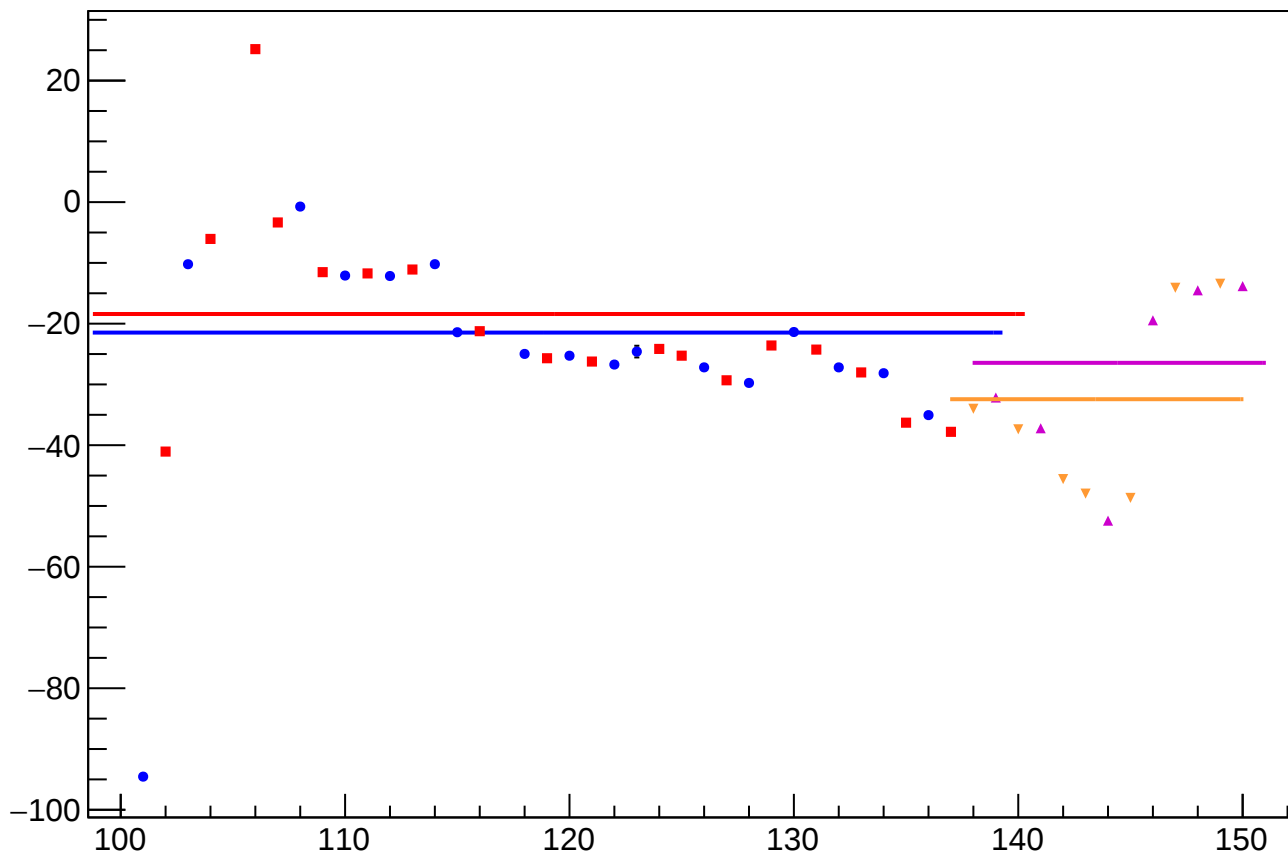
Right:  $-34.511 \pm 0.716$   $\chi^2/\text{NDF}$ : 580.2/34

In:  $-24.850 \pm 0.732$   $\chi^2/\text{NDF}$ : 563.1/22

Out:  $-26.833 \pm 0.721$   $\chi^2/\text{NDF}$ : 596.5/24

All:  $-25.857 \pm 0.514$   $\chi^2/\text{NDF}$ : 1163.4/47

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -21.469+/-0.059  $\chi^2/\text{NDF}$ : 48979.5/16

Left Out: -32.433+/-0.053  $\chi^2/\text{NDF}$ : 71090.6/6

Right Out: -18.411+/-0.057  $\chi^2/\text{NDF}$ : 77587.3/17

Left In: -26.447+/-0.051  $\chi^2/\text{NDF}$ : 61287.4/5

Left: -29.348+/-0.037  $\chi^2/\text{NDF}$ : 139038.4/12

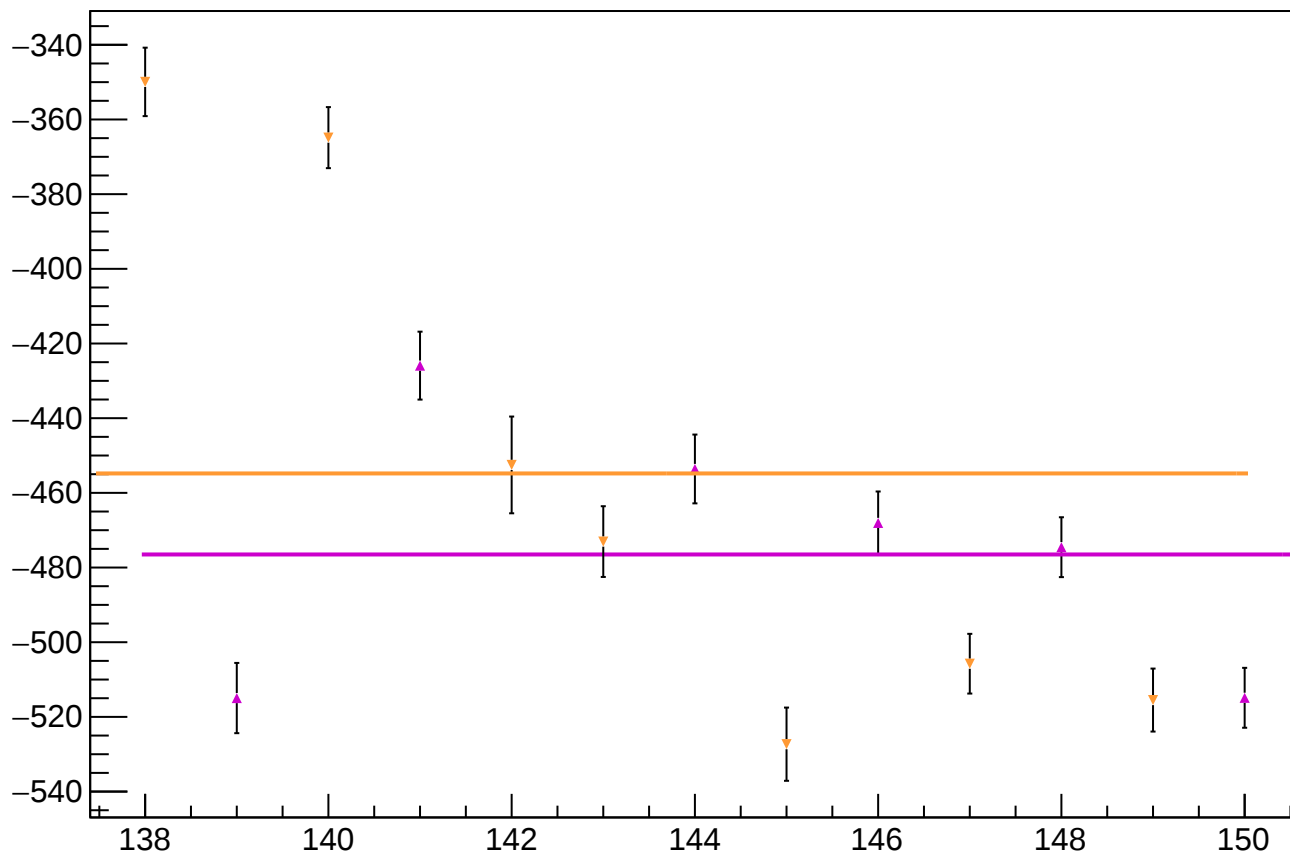
Right: -19.904+/-0.041  $\chi^2/\text{NDF}$ : 127953.4/34

In: -24.304+/-0.039  $\chi^2/\text{NDF}$ : 114358.1/22

Out: -26.022+/-0.039  $\chi^2/\text{NDF}$ : 181092.8/24

All: -25.158+/-0.027  $\chi^2/\text{NDF}$ : 296438.0/47

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: -454.799+/-3.449  $\chi^2/\text{NDF}$ :402.8/6

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

Left In: -476.501+/-3.527  $\chi^2/\text{NDF}$ :77.8/5

Left: -465.408+/-2.466  $\chi^2/\text{NDF}$ : 499.9/12

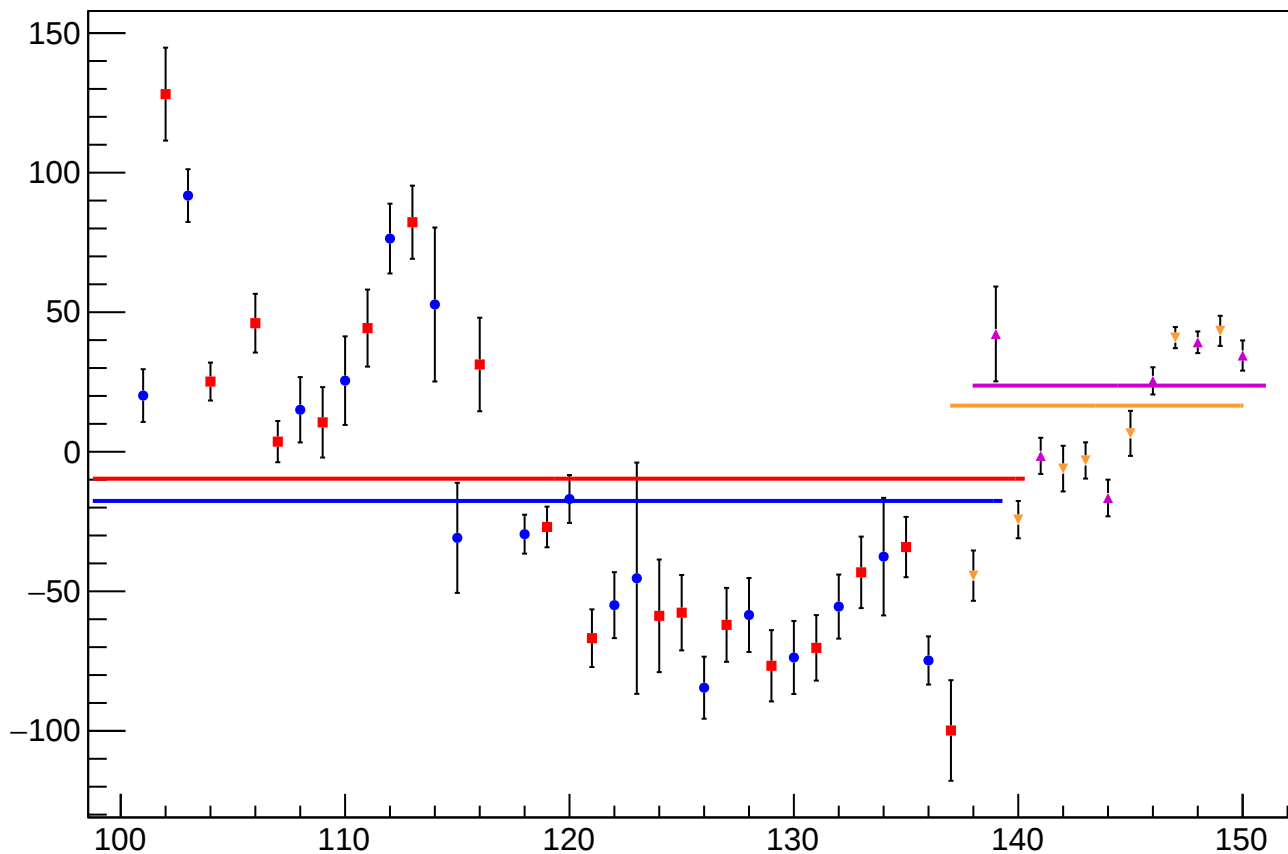
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -476.501+/-3.527  $\chi^2/\text{NDF}$ :77.8/5

Out: -454.799+/-3.449  $\chi^2/\text{NDF}$ :402.8/6

All: -465.408+/-2.466  $\chi^2/\text{NDF}$ : 499.9/12

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:  $16.525 \pm 2.278$   $\chi^2/\text{NDF}$ : 167.3/6

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

Left In:  $23.703 \pm 2.276$   $\chi^2/\text{NDF}$ : 73.9/5

Left:  $20.117 \pm 1.610$   $\chi^2/\text{NDF}$ : 246.2/12

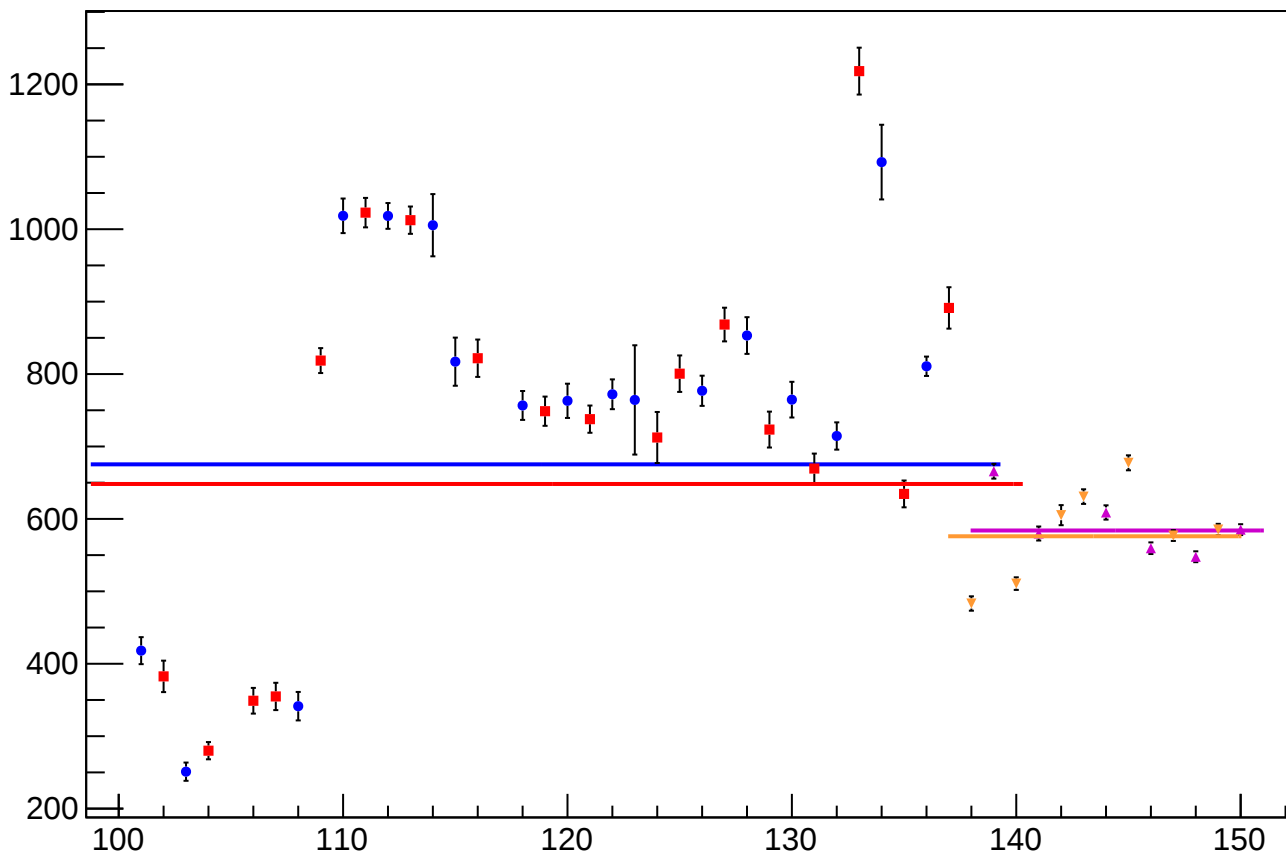
Right:  $-13.374 \pm 1.906$   $\chi^2/\text{NDF}$ : 727.1/34

In:  $7.162 \pm 1.763$   $\chi^2/\text{NDF}$ : 567.9/22

Out:  $5.224 \pm 1.717$   $\chi^2/\text{NDF}$ : 584.9/24

All:  $6.167 \pm 1.230$   $\chi^2/\text{NDF}$ : 1153.4/47

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:  $576.031 \pm 3.499$   $\chi^2/\text{NDF}: 275.1/6$

Right Out:  $648.229 \pm 4.775$   $\chi^2/\text{NDF}: 3059.0/17$

Left In:  $584.016 \pm 3.501$   $\chi^2/\text{NDF}: 103.7/5$

Left:  $580.021 \pm 2.475$   $\chi^2/\text{NDF}: 381.3/12$

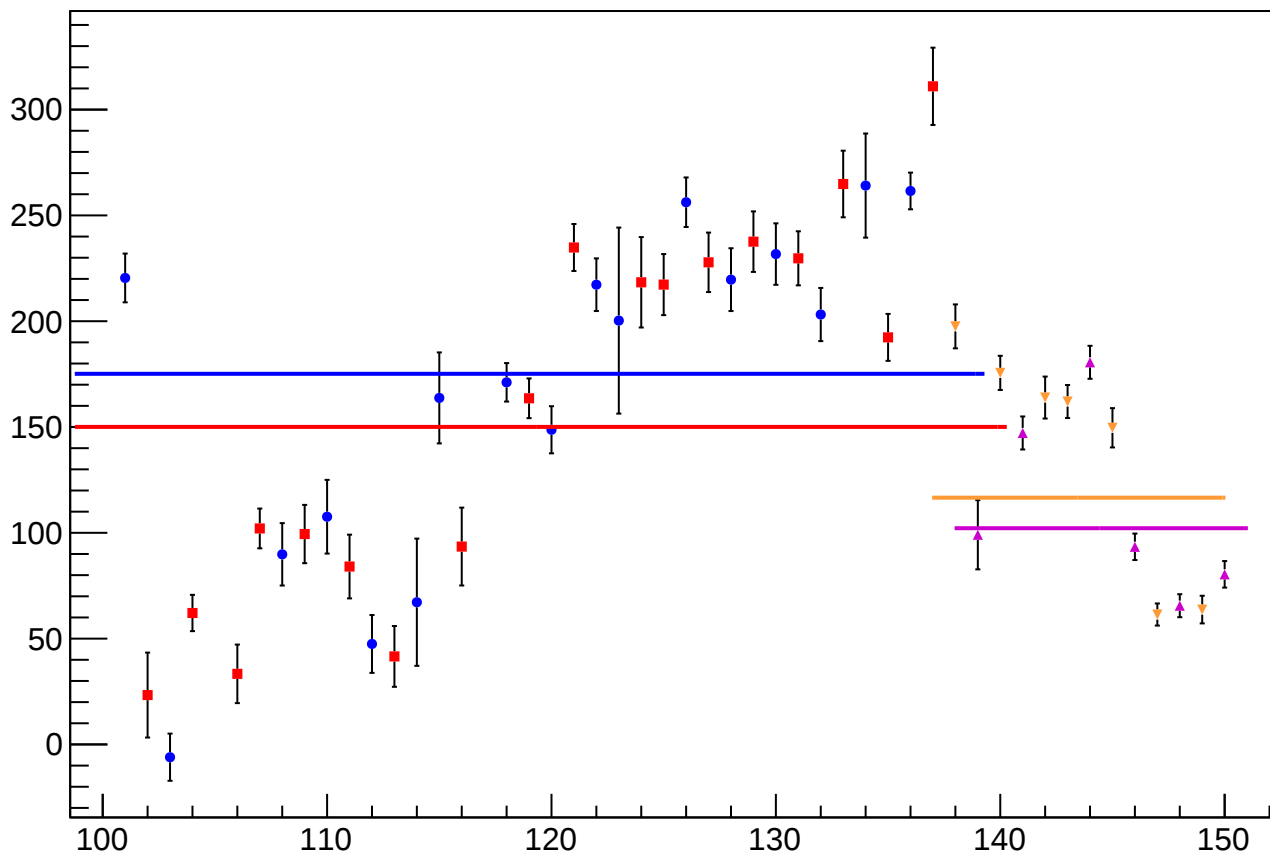
Right:  $661.037 \pm 3.468$   $\chi^2/\text{NDF}: 5656.9/34$

In:  $613.691 \pm 2.876$   $\chi^2/\text{NDF}: 2907.5/22$

Out:  $601.253 \pm 2.822$   $\chi^2/\text{NDF}: 3482.8/24$

All:  $607.354 \pm 2.014$   $\chi^2/\text{NDF}: 6399.8/47$

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:  $116.614 \pm 2.853$   $\chi^2/\text{NDF}: 360.7/6$

Right Out:  $150.054 \pm 3.045$   $\chi^2/\text{NDF}: 686.2/17$

Left In:  $102.184 \pm 2.869$   $\chi^2/\text{NDF}: 194.1/5$

Left:  $109.439 \pm 2.023$   $\chi^2/\text{NDF}: 567.5/12$

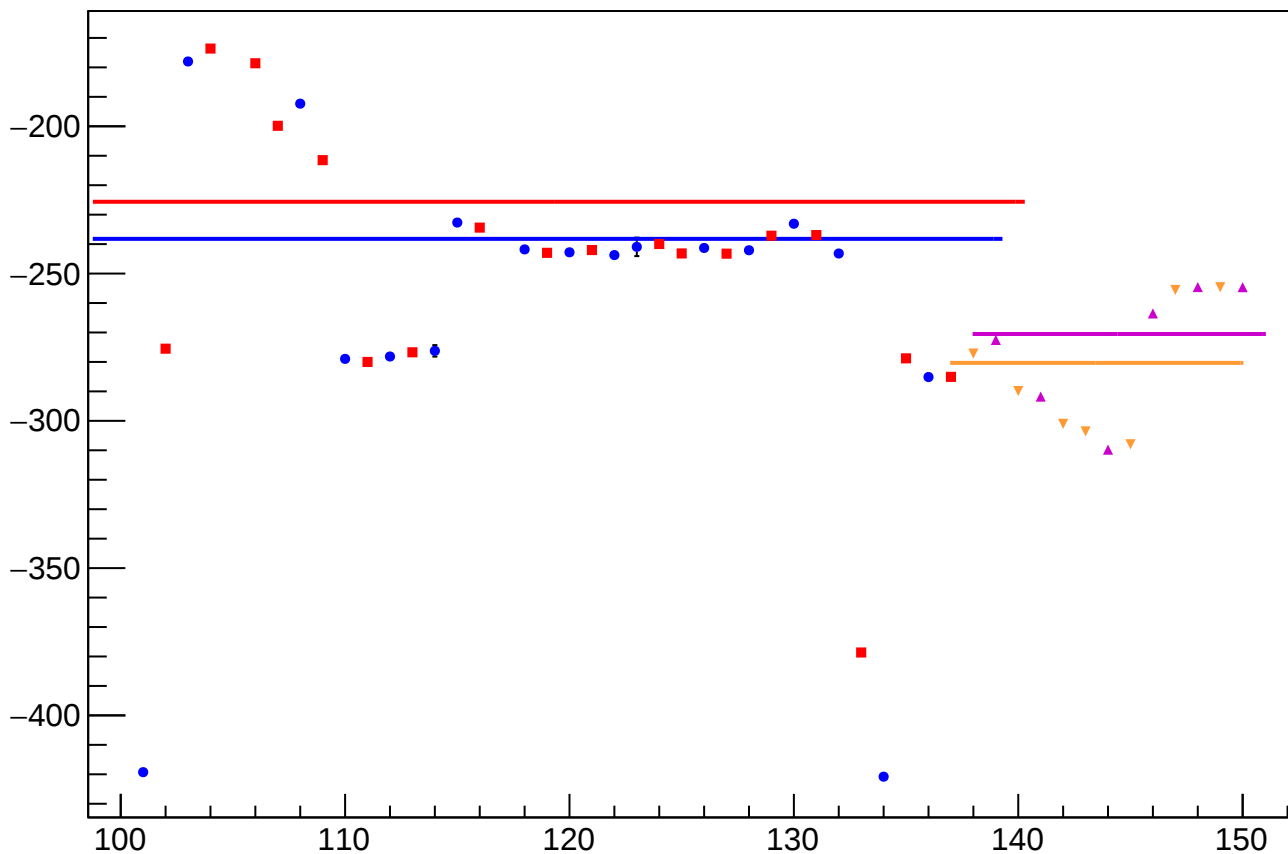
Right:  $161.941 \pm 2.209$   $\chi^2/\text{NDF}: 1354.0/34$

In:  $134.586 \pm 2.139$   $\chi^2/\text{NDF}: 1117.0/22$

Out:  $132.242 \pm 2.082$   $\chi^2/\text{NDF}: 1111.1/24$

All:  $133.383 \pm 1.492$   $\chi^2/\text{NDF}: 2228.7/47$

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: -280.317+/-0.149  $\chi^2/\text{NDF}$ :20485.9/6

Right Out: -225.623+/-0.152  $\chi^2/\text{NDF}$ : 95450.2/17

Left In: -270.518+/-0.146  $\chi^2/\text{NDF}$ :16647.5/5

Left: -275.334+/-0.104  $\chi^2/\text{NDF}$ : 39337.0/12

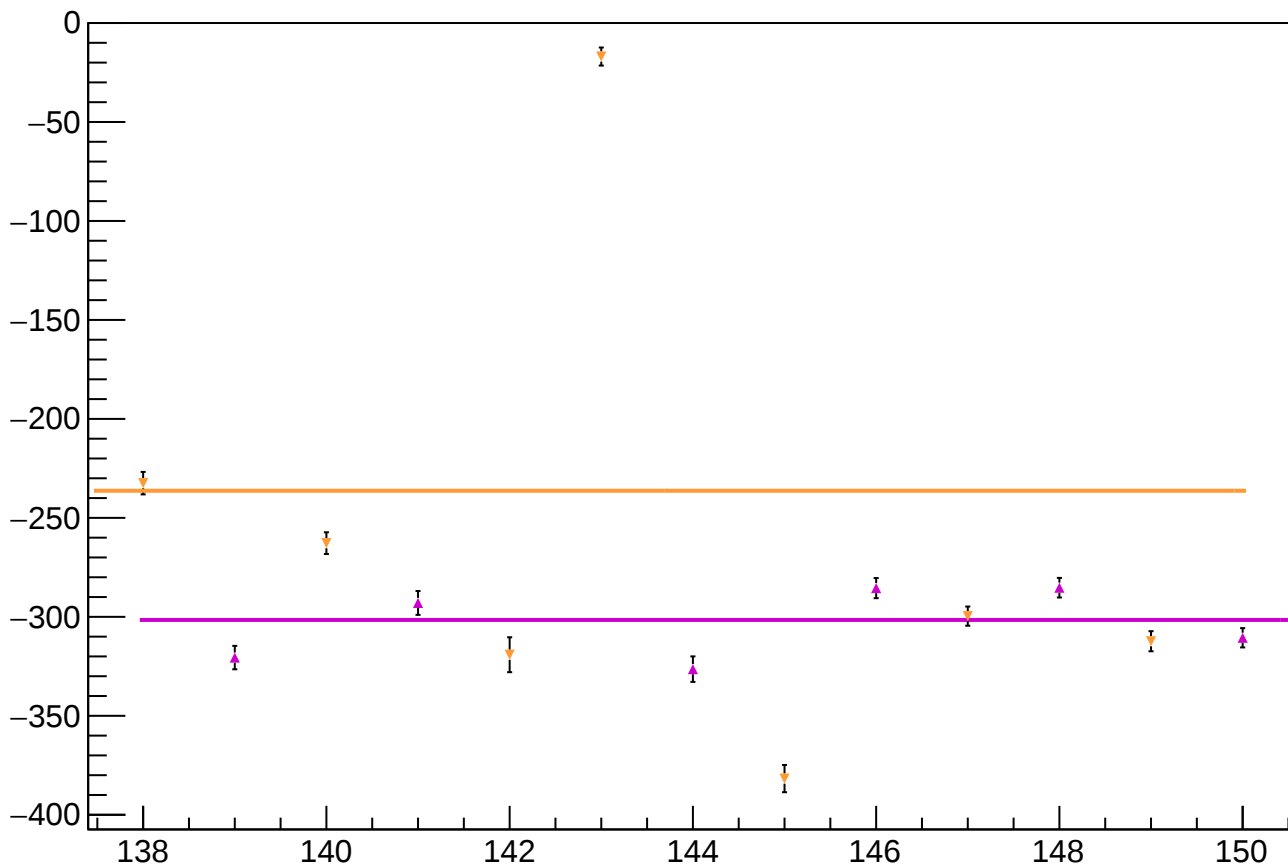
Right: -231.577+/-0.110  $\chi^2/\text{NDF}$ : 265811.9/34

In: -255.809+/-0.108  $\chi^2/\text{NDF}$ :205925.5/22

Out: -253.463+/-0.106  $\chi^2/\text{NDF}$ :182213.8/24

All: -254.616+/-0.076  $\chi^2/\text{NDF}$ : 388379.2/47

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: -236.291+/-2.097  $\chi^2/\text{NDF}$ :3263.4/6

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

Left In: -301.567+/-2.227  $\chi^2/\text{NDF}$ :51.5/5

Left: -266.970+/-1.527  $\chi^2/\text{NDF}$ : 3770.4/12

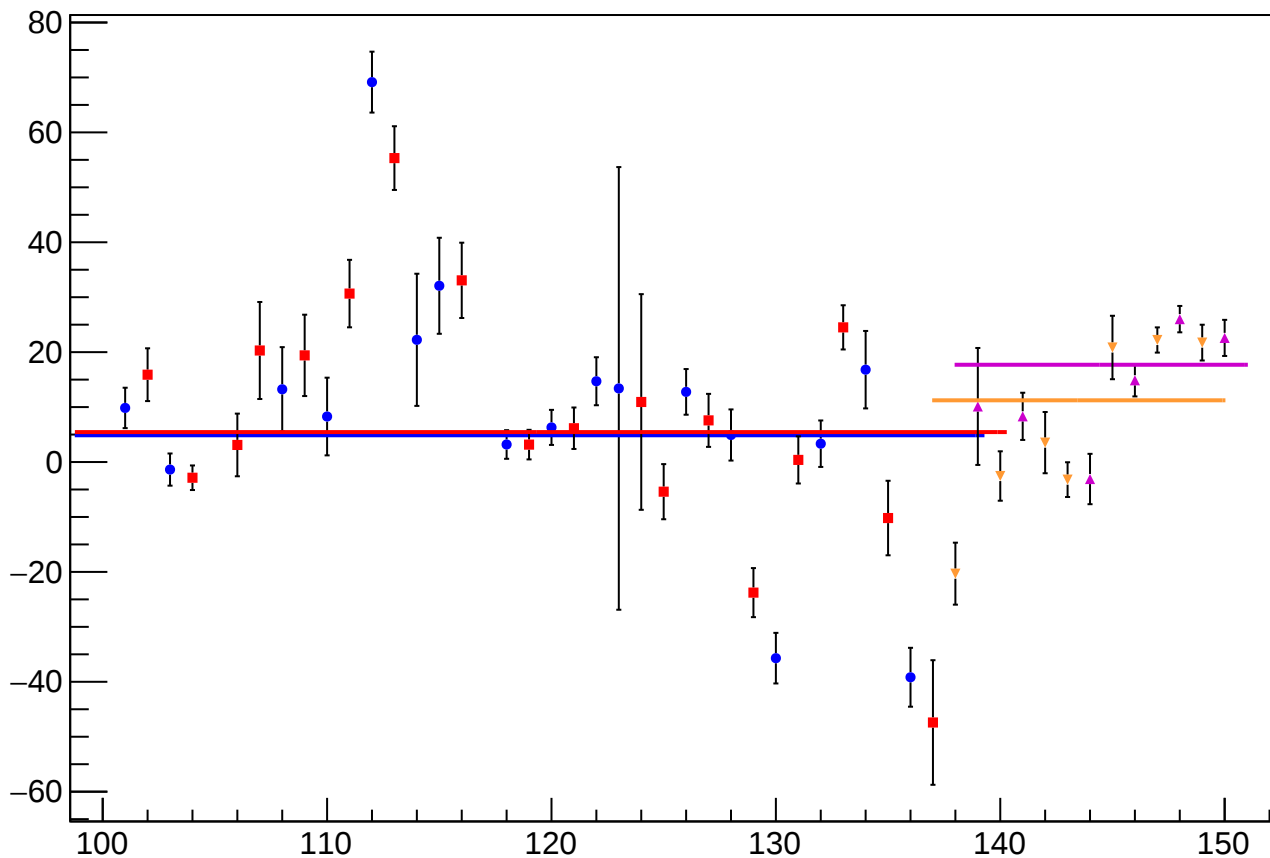
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -301.567+/-2.227  $\chi^2/\text{NDF}$ :51.5/5

Out: -236.291+/-2.097  $\chi^2/\text{NDF}$ :3263.4/6

All: -266.970+/-1.527  $\chi^2/\text{NDF}$ : 3770.4/12

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.870 $\pm$ 1.091  $\chi^2$ /NDF: 311.5/16

Left Out: 11.233 $\pm$ 1.377  $\chi^2$ /NDF:99.5/6

Right Out: 5.450 $\pm$ 1.071  $\chi^2$ /NDF: 231.5/17

Left In: 17.704 $\pm$ 1.424  $\chi^2$ /NDF:41.0/5

Left: 14.360 $\pm$ 0.990  $\chi^2$ /NDF: 151.1/12

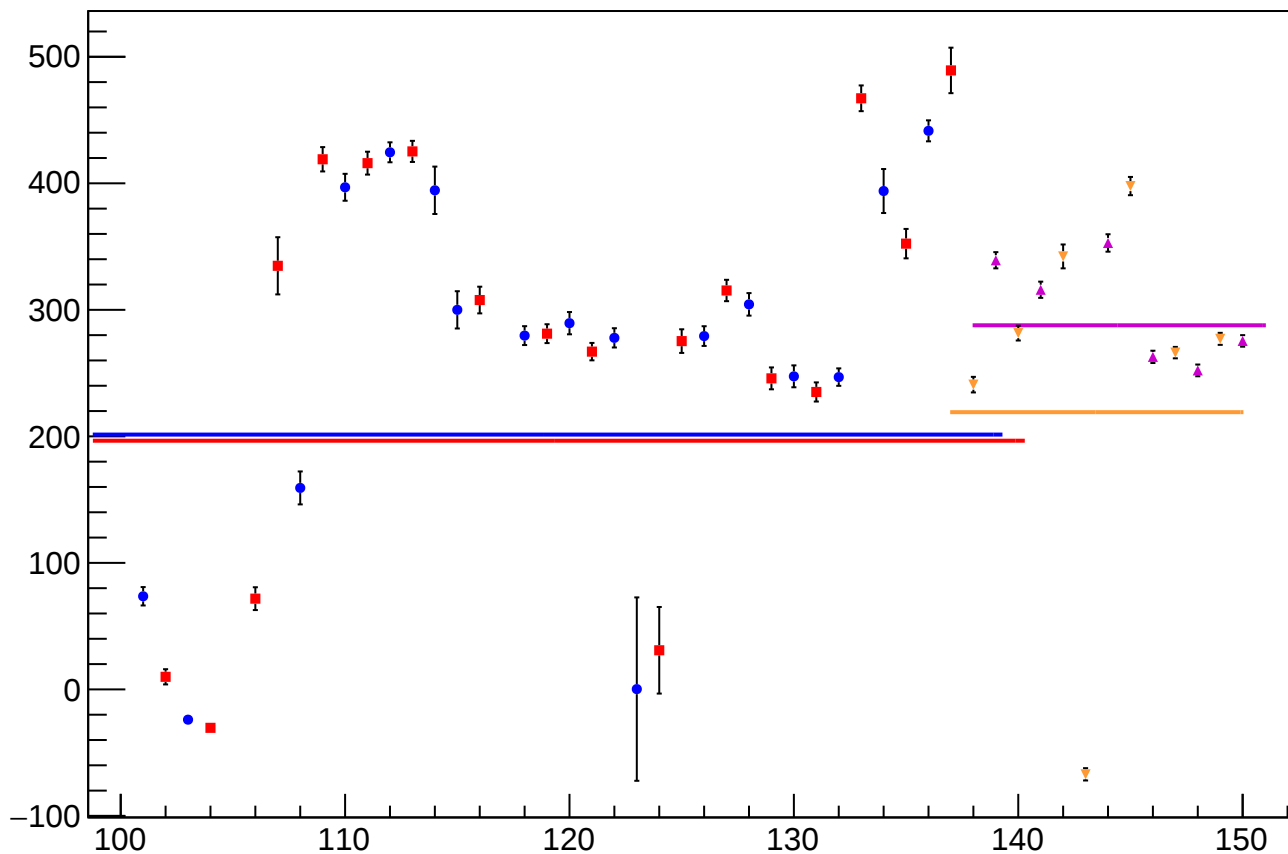
Right: 5.165 $\pm$ 0.764  $\chi^2$ /NDF: 543.2/34

In: 9.613 $\pm$ 0.866  $\chi^2$ /NDF:403.7/22

Out: 7.629 $\pm$ 0.845  $\chi^2$ /NDF:342.0/24

All: 8.598 $\pm$ 0.605  $\chi^2$ /NDF: 748.4/47

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: 219.117 $\pm$ 2.125  $\chi^2$ /NDF: 4624.7/6

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

Left In: 287.790 $\pm$ 2.200  $\chi^2$ /NDF: 265.5/5

Left: 252.272 $\pm$ 1.528  $\chi^2$ /NDF: 5394.3/12

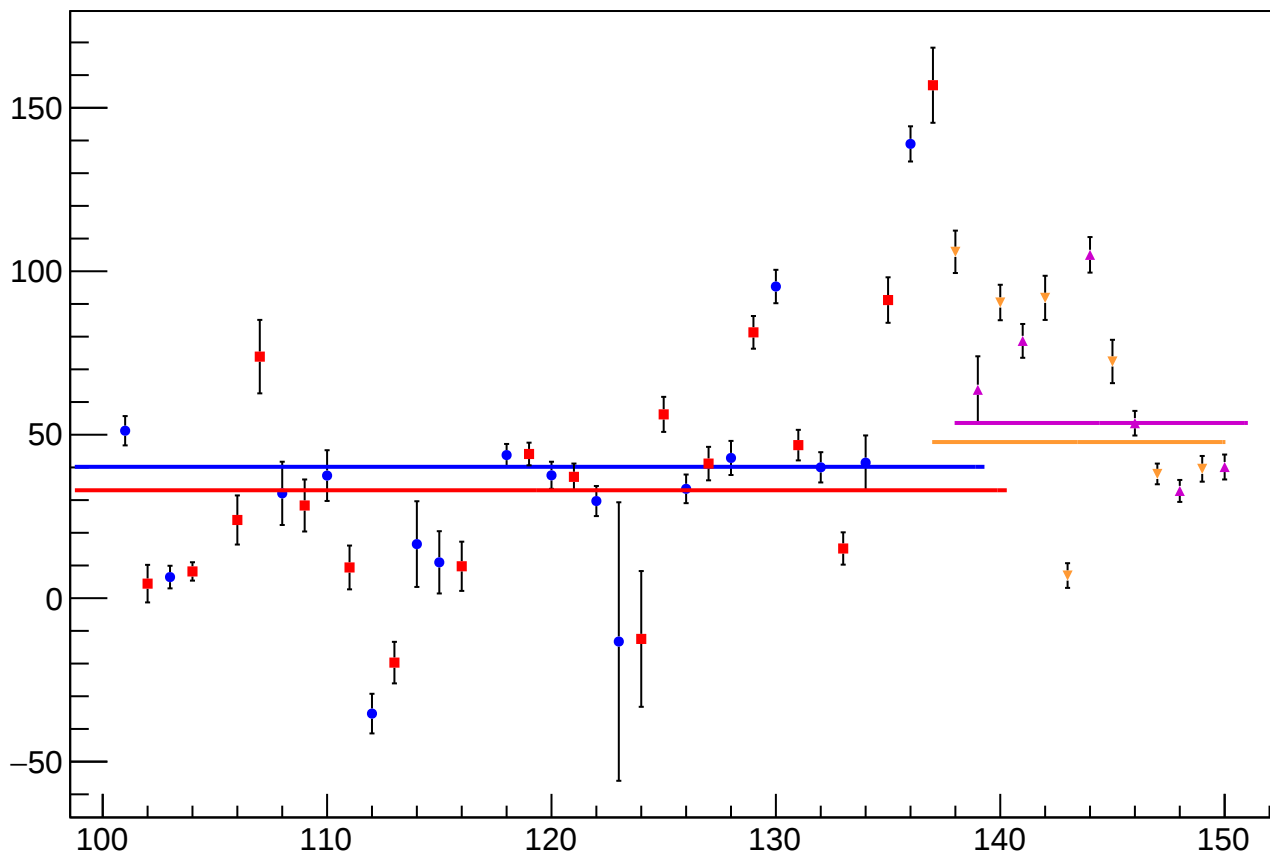
Right: 198.933 $\pm$ 1.380  $\chi^2$ /NDF: 14921.6/34

In: 239.934 $\pm$ 1.469  $\chi^2$ /NDF: 7860.3/22

Out: 206.765 $\pm$ 1.429  $\chi^2$ /NDF: 12864.4/24

All: 222.894 $\pm$ 1.024  $\chi^2$ /NDF: 20986.6/47

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $40.183 \pm 1.270$   $\chi^2/\text{NDF}$ : 734.0/16

Left Out:  $47.761 \pm 1.723$   $\chi^2/\text{NDF}$ : 329.5/6

Right Out:  $33.009 \pm 1.253$   $\chi^2/\text{NDF}$ : 547.2/17

Left In:  $53.595 \pm 1.800$   $\chi^2/\text{NDF}$ : 164.7/5

Left:  $50.550 \pm 1.245$   $\chi^2/\text{NDF}$ : 499.8/12

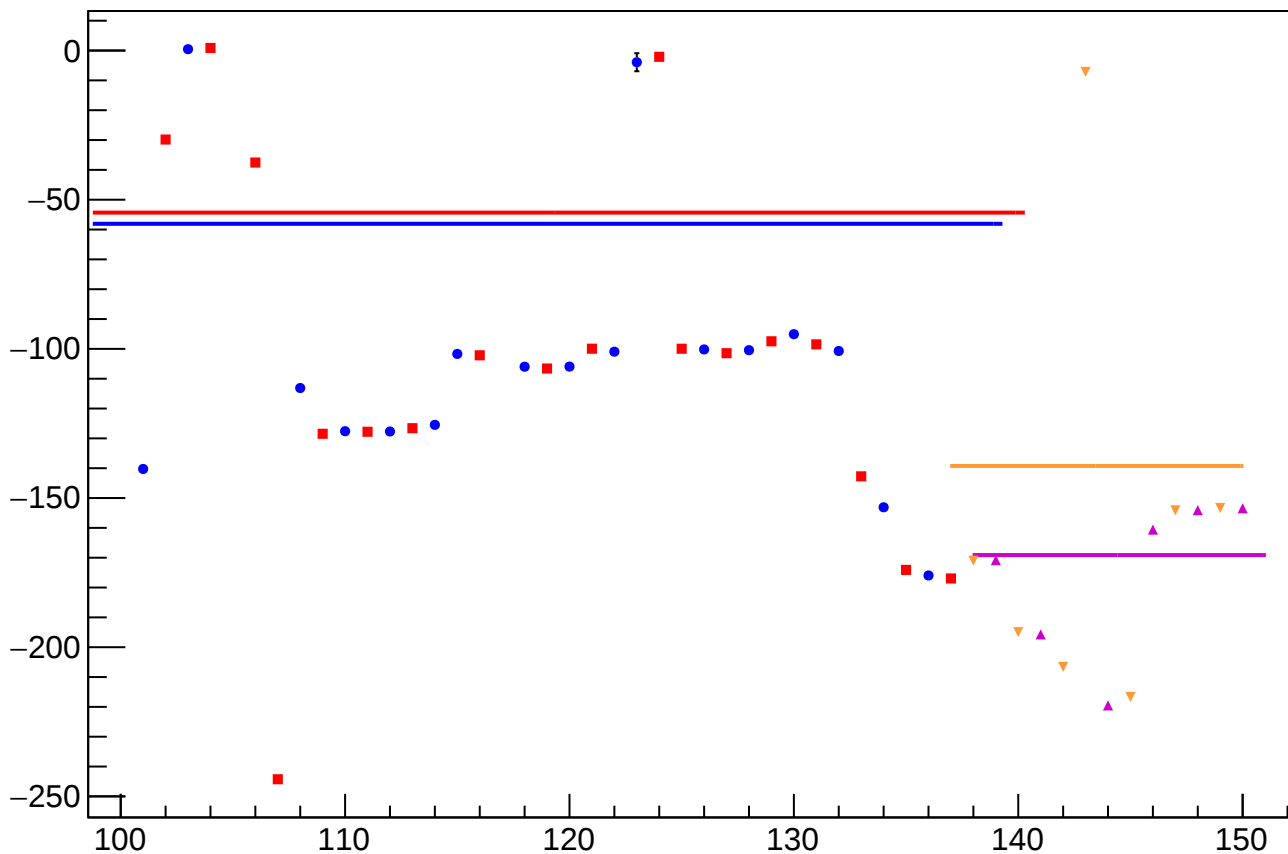
Right:  $36.547 \pm 0.892$   $\chi^2/\text{NDF}$ : 1297.4/34

In:  $44.640 \pm 1.038$   $\chi^2/\text{NDF}$ : 935.8/22

Out:  $38.111 \pm 1.013$   $\chi^2/\text{NDF}$ : 924.6/24

All:  $41.298 \pm 0.725$   $\chi^2/\text{NDF}$ : 1880.7/47

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -58.077 $\pm$ 0.062  $\chi^2$ /NDF: 1104437.7/16

Left Out: -139.244 $\pm$ 0.090  $\chi^2$ /NDF: 636326.4/6

Right Out: -54.323 $\pm$ 0.060  $\chi^2$ /NDF: 991053.6/17

Left In: -169.113 $\pm$ 0.092  $\chi^2$ /NDF: 52340.9/5

Left: -153.878 $\pm$ 0.064  $\chi^2$ /NDF: 742428.8/12

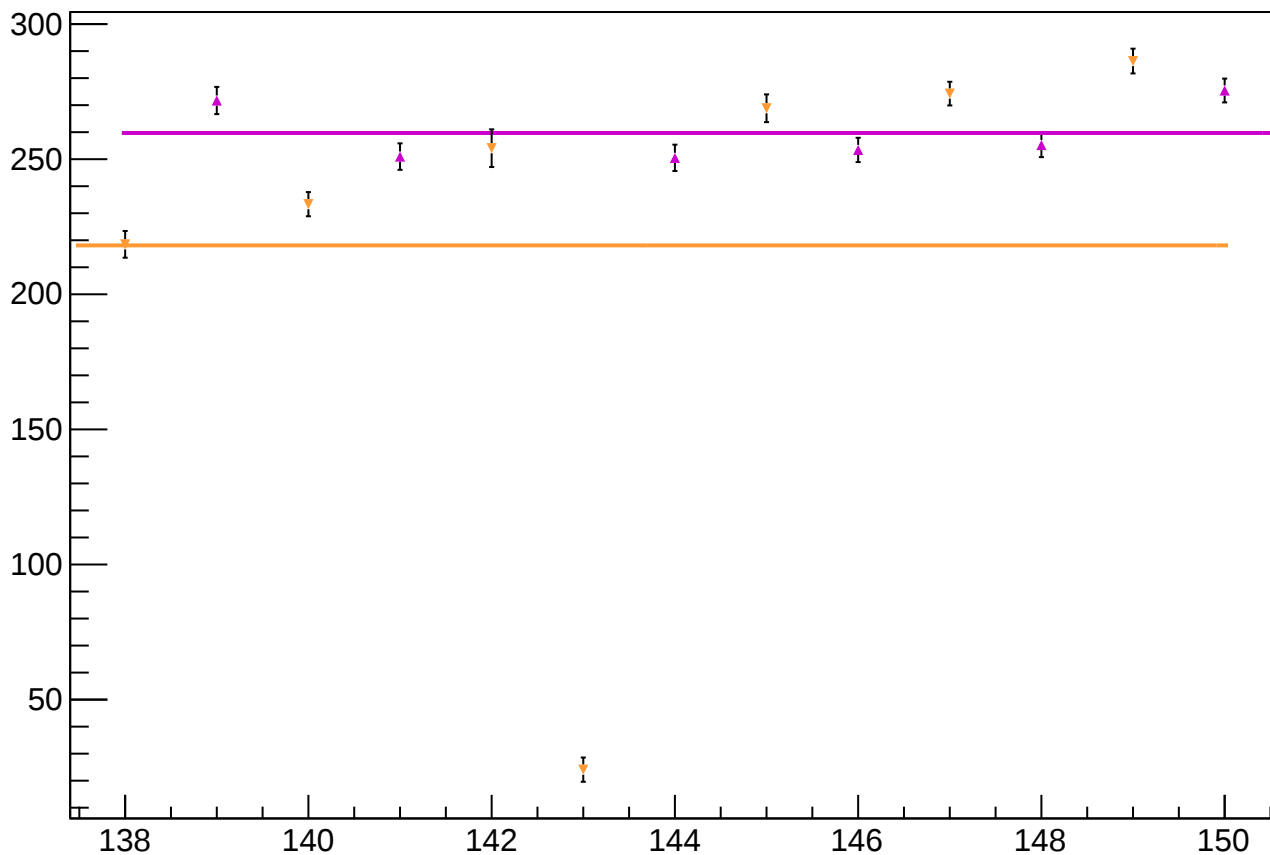
Right: -56.164 $\pm$ 0.043  $\chi^2$ /NDF: 2097382.5/34

In: -92.462 $\pm$ 0.051  $\chi^2$ /NDF: 2162271.5/22

Out: -80.649 $\pm$ 0.050  $\chi^2$ /NDF: 2239403.0/24

All: -86.440 $\pm$ 0.036  $\chi^2$ /NDF: 4428812.6/47

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: 218.102+/-1.830  $\chi^2/\text{NDF}$ :2388.1/6

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

Left In: 259.706+/-1.910  $\chi^2/\text{NDF}$ :28.1/5

Left: 238.014+/-1.321  $\chi^2/\text{NDF}$ : 2663.6/12

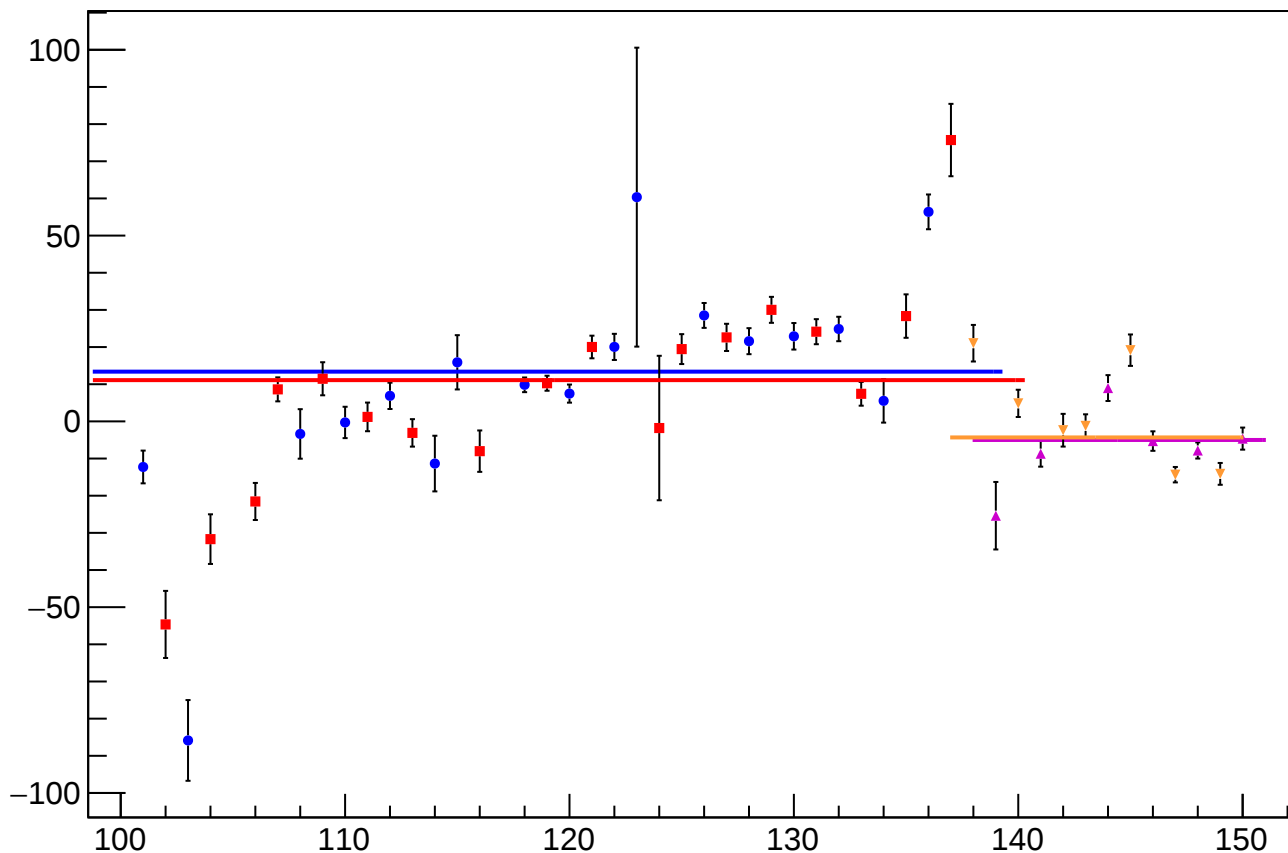
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 259.706+/-1.910  $\chi^2/\text{NDF}$ :28.1/5

Out: 218.102+/-1.830  $\chi^2/\text{NDF}$ :2388.1/6

All: 238.014+/-1.321  $\chi^2/\text{NDF}$ : 2663.6/12

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:  $-4.321 \pm 1.218$   $\chi^2/\text{NDF}$ : 99.2/6

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

Left In:  $-5.002 \pm 1.243$   $\chi^2/\text{NDF}$ : 24.0/5

Left:  $-4.655 \pm 0.870$   $\chi^2/\text{NDF}$ : 123.4/12

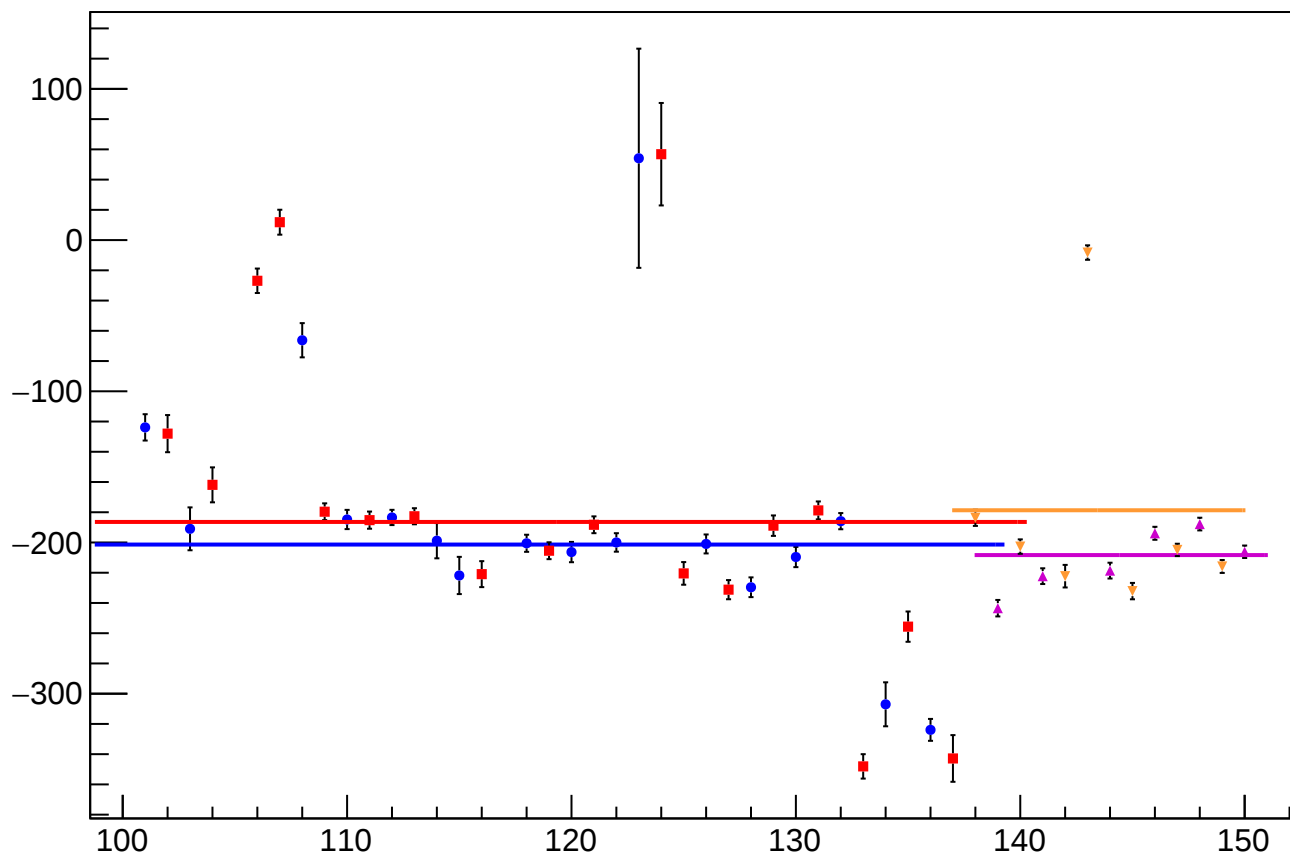
Right:  $12.236 \pm 0.649$   $\chi^2/\text{NDF}$ : 589.4/34

In:  $6.865 \pm 0.740$   $\chi^2/\text{NDF}$ : 459.4/22

Out:  $5.534 \pm 0.732$   $\chi^2/\text{NDF}$ : 493.9/24

All:  $6.192 \pm 0.520$   $\chi^2/\text{NDF}$ : 954.9/47

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-201.367 \pm 1.784$   $\chi^2/\text{NDF}$ : 625.0/16

Left Out:  $-178.686 \pm 1.861$   $\chi^2/\text{NDF}$ : 1539.4/6

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

Left In:  $-208.323 \pm 1.899$   $\chi^2/\text{NDF}$ : 88.0/5

Left:  $-193.205 \pm 1.329$   $\chi^2/\text{NDF}$ : 1751.6/12

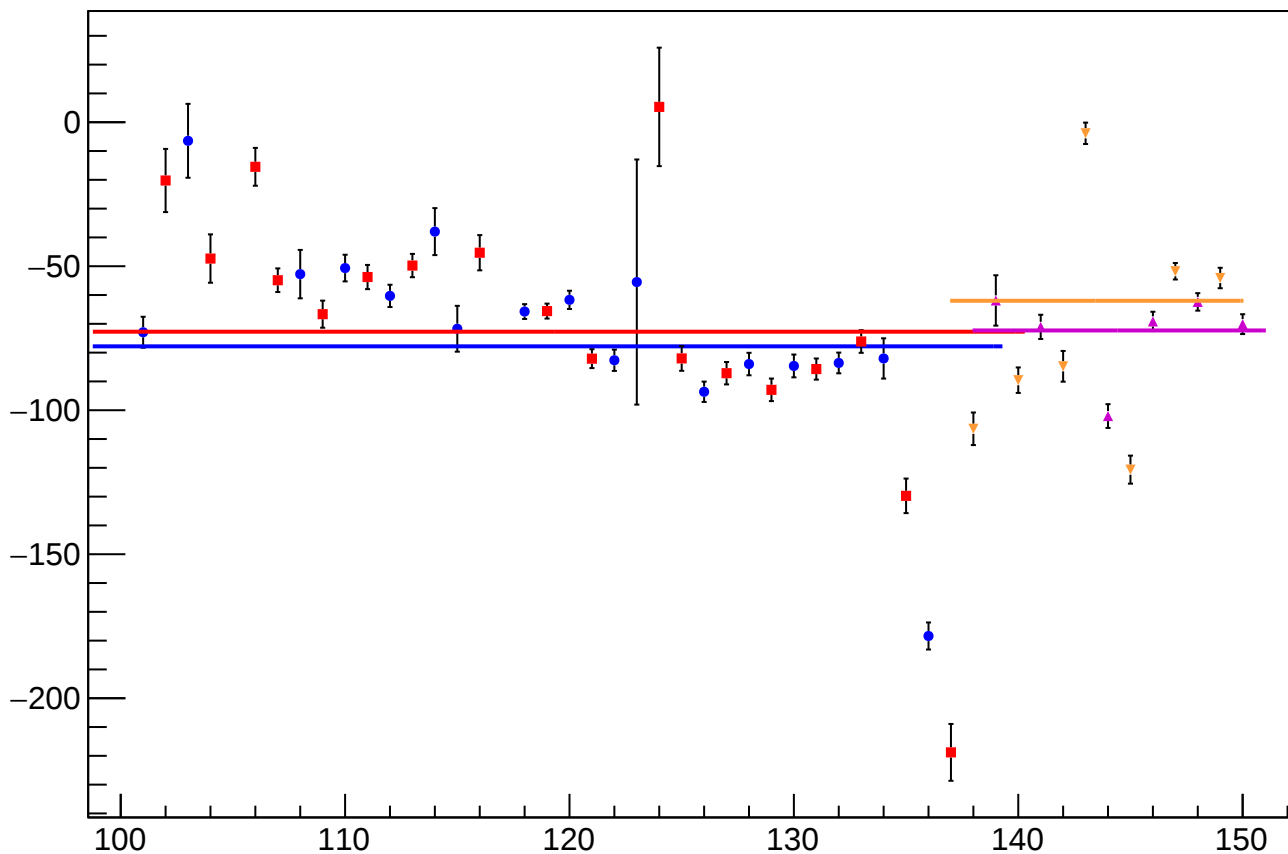
Right:  $-193.544 \pm 1.232$   $\chi^2/\text{NDF}$ : 2361.2/34

In:  $-204.627 \pm 1.300$   $\chi^2/\text{NDF}$ : 720.1/22

Out:  $-182.890 \pm 1.257$   $\chi^2/\text{NDF}$ : 3248.2/24

All:  $-193.388 \pm 0.904$   $\chi^2/\text{NDF}$ : 4112.8/47

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:  $-61.994 \pm 1.519$   $\chi^2/\text{NDF}$ : 526.4/6

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

Left In:  $-72.302 \pm 1.562$   $\chi^2/\text{NDF}$ : 65.3/5

Left:  $-67.003 \pm 1.089$   $\chi^2/\text{NDF}$ : 614.0/12

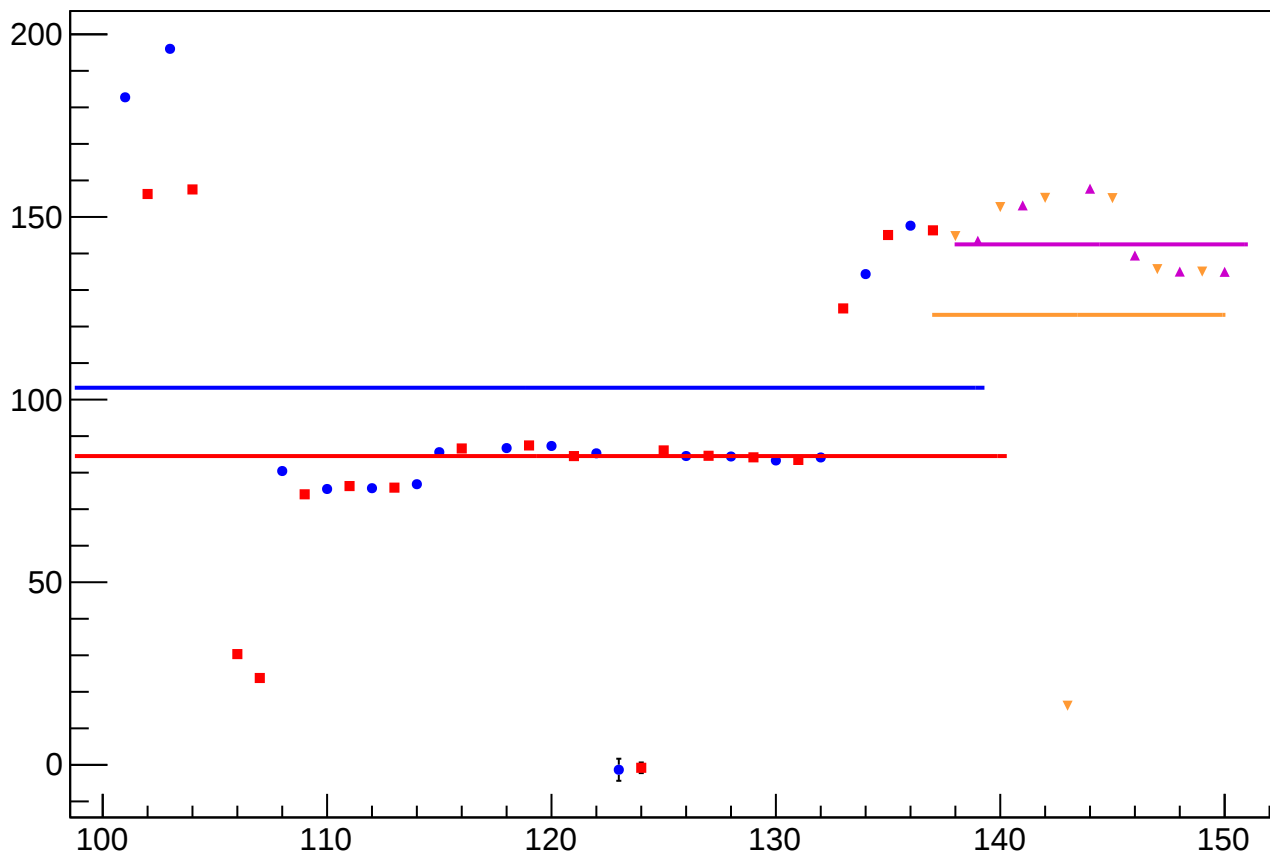
Right:  $-75.241 \pm 0.750$   $\chi^2/\text{NDF}$ : 1266.8/34

In:  $-76.061 \pm 0.882$   $\chi^2/\text{NDF}$ : 730.1/22

Out:  $-69.245 \pm 0.866$   $\chi^2/\text{NDF}$ : 1159.1/24

All:  $-72.590 \pm 0.618$   $\chi^2/\text{NDF}$ : 1919.7/47

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: 123.202 $\pm$ 0.079  $\chi^2$ /NDF: 382196.9/6

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

Left In: 142.493 $\pm$ 0.079  $\chi^2$ /NDF: 10906.2/5

Left: 132.773 $\pm$ 0.056  $\chi^2$ /NDF: 422857.3/12

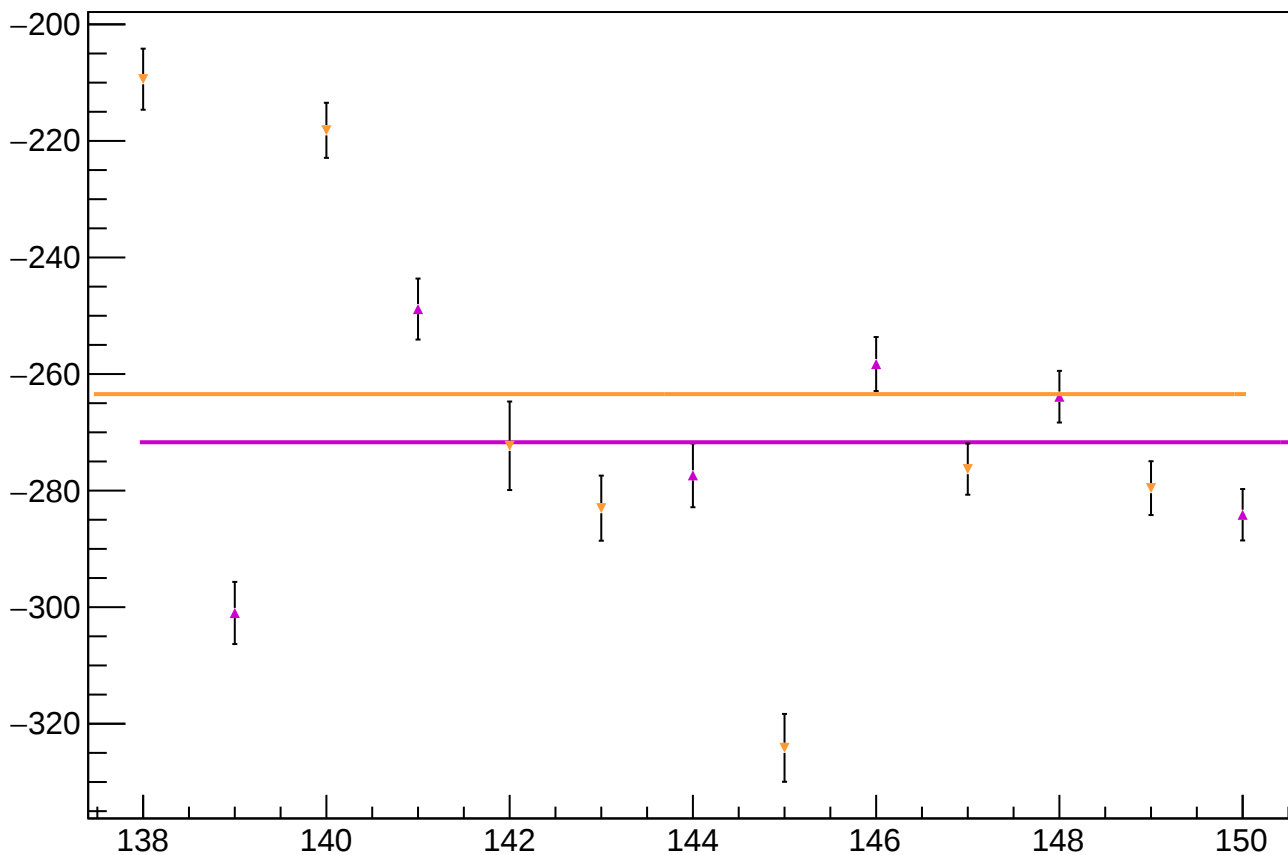
Right: 92.986 $\pm$ 0.047  $\chi^2$ /NDF: 723450.6/34

In: 120.541 $\pm$ 0.053  $\chi^2$ /NDF: 421007.5/22

Out: 99.890 $\pm$ 0.050  $\chi^2$ /NDF: 938844.3/24

All: 109.597 $\pm$ 0.036  $\chi^2$ /NDF: 1441235.3/47

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: -263.444+/-1.966  $\chi^2/\text{NDF}$ :341.2/6

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

Left In: -271.701+/-1.984  $\chi^2/\text{NDF}$ :69.8/5

Left: -267.533+/-1.396  $\chi^2/\text{NDF}$ : 419.7/12

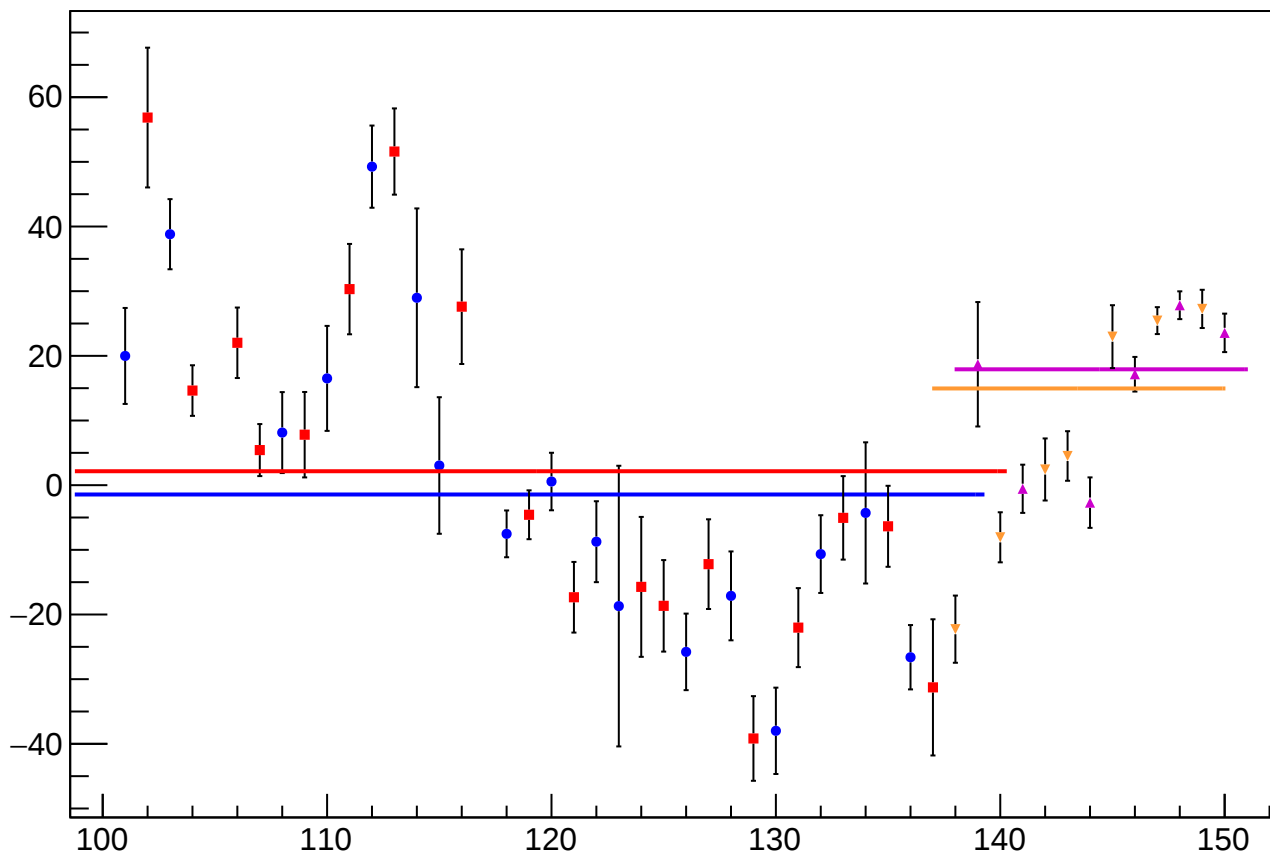
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -271.701+/-1.984  $\chi^2/\text{NDF}$ :69.8/5

Out: -263.444+/-1.966  $\chi^2/\text{NDF}$ :341.2/6

All: -267.533+/-1.396  $\chi^2/\text{NDF}$ : 419.7/12

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:  $14.956 \pm 1.288$   $\chi^2/\text{NDF}: 146.4/6$

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}: 230.2/17$

Left In:  $17.918 \pm 1.273$   $\chi^2/\text{NDF}: 77.4/5$

Left:  $16.454 \pm 0.905$   $\chi^2/\text{NDF}: 226.5/12$

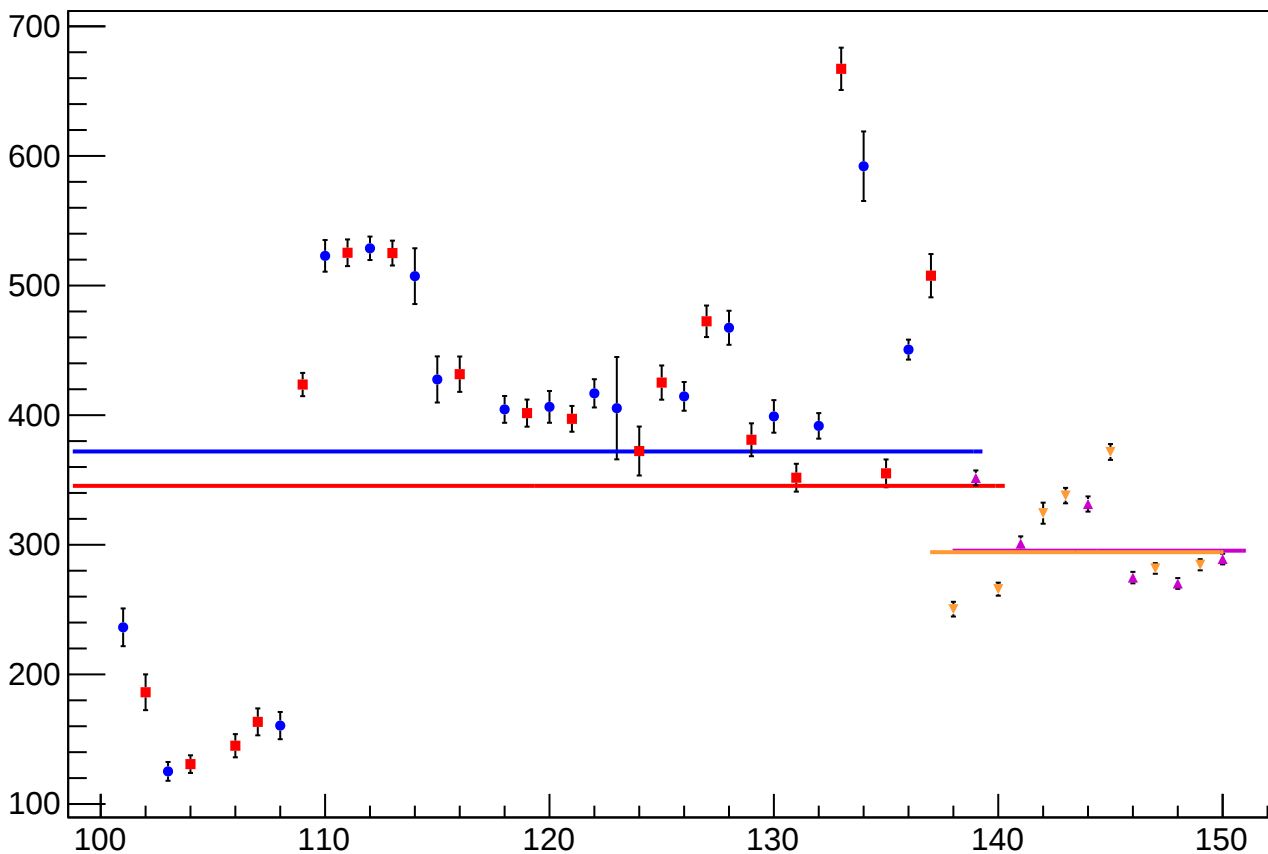
Right:  $0.500 \pm 1.029$   $\chi^2/\text{NDF}: 457.6/34$

In:  $9.915 \pm 0.975$   $\chi^2/\text{NDF}: 397.5/22$

Out:  $9.094 \pm 0.948$   $\chi^2/\text{NDF}: 421.8/24$

All:  $9.493 \pm 0.680$   $\chi^2/\text{NDF}: 819.6/47$

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 371.997+/-2.765  $\chi^2/\text{NDF}$ : 2431.2/16

Left Out: 294.301+/-1.985  $\chi^2/\text{NDF}$ :334.1/6

Right Out: 345.473+/-2.564  $\chi^2/\text{NDF}$ : 3401.6/17

Left In: 295.461+/-1.964  $\chi^2/\text{NDF}$ :194.8/5

Left: 294.887+/-1.396  $\chi^2/\text{NDF}$ : 529.0/12

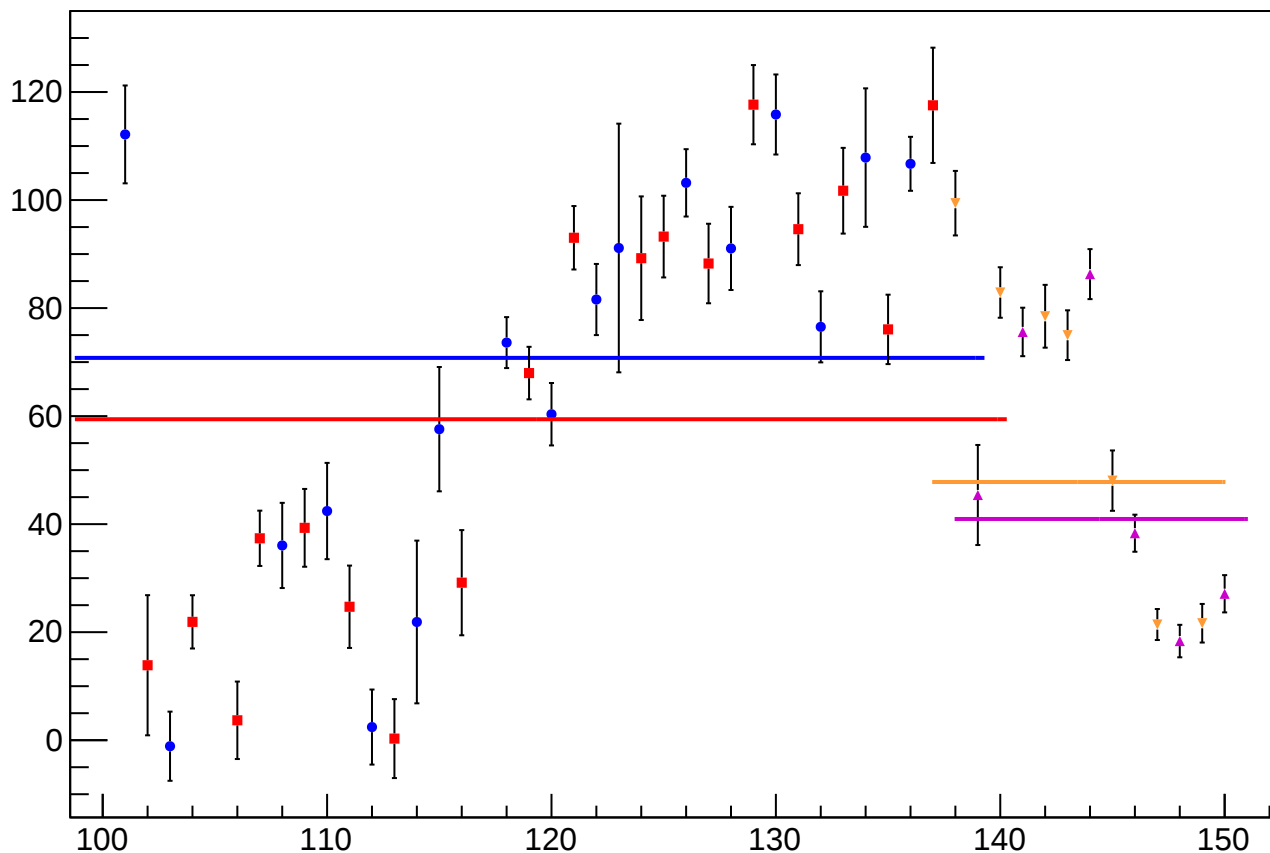
Right: 357.739+/-1.880  $\chi^2/\text{NDF}$ : 5882.3/34

In: 321.125+/-1.601  $\chi^2/\text{NDF}$ :3135.4/22

Out: 313.478+/-1.570  $\chi^2/\text{NDF}$ :3984.7/24

All: 317.227+/-1.121  $\chi^2/\text{NDF}$ : 7131.7/47

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: 47.800 $\pm$ 1.617  $\chi^2$ /NDF:331.8/6

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

Left In: 40.955 $\pm$ 1.607  $\chi^2$ /NDF:228.8/5

Left: 44.355 $\pm$ 1.140  $\chi^2$ /NDF: 569.6/12

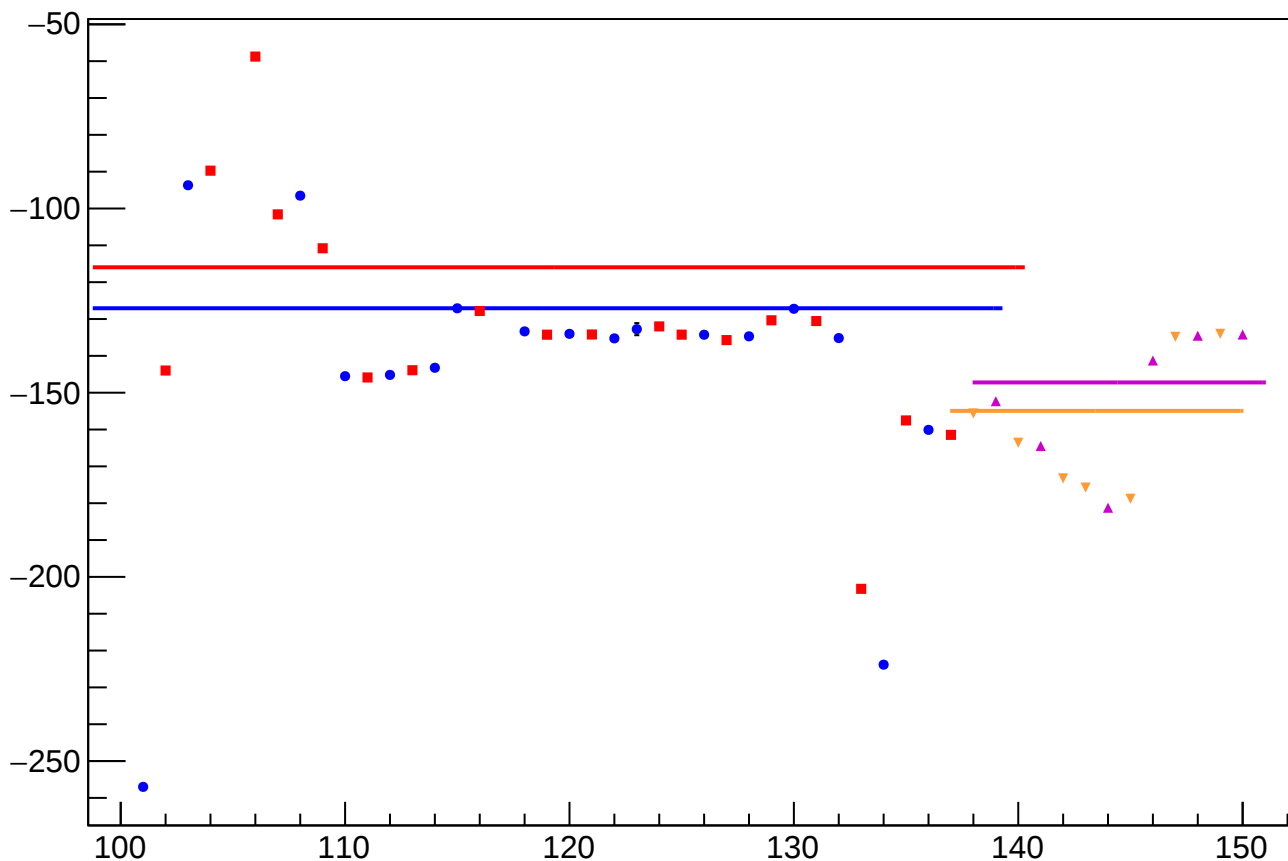
Right: 64.716 $\pm$ 1.193  $\chi^2$ /NDF: 933.1/34

In: 54.624 $\pm$ 1.182  $\chi^2$ /NDF:810.7/22

Out: 53.558 $\pm$ 1.149  $\chi^2$ /NDF:843.9/24

All: 54.075 $\pm$ 0.824  $\chi^2$ /NDF: 1655.1/47

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: -154.938+/-0.085  $\chi^2/\text{NDF}$ : 45259.8/6

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

Left In: -147.217+/-0.082  $\chi^2/\text{NDF}$ : 35678.9/5

Left: -150.959+/-0.059  $\chi^2/\text{NDF}$ : 85220.3/12

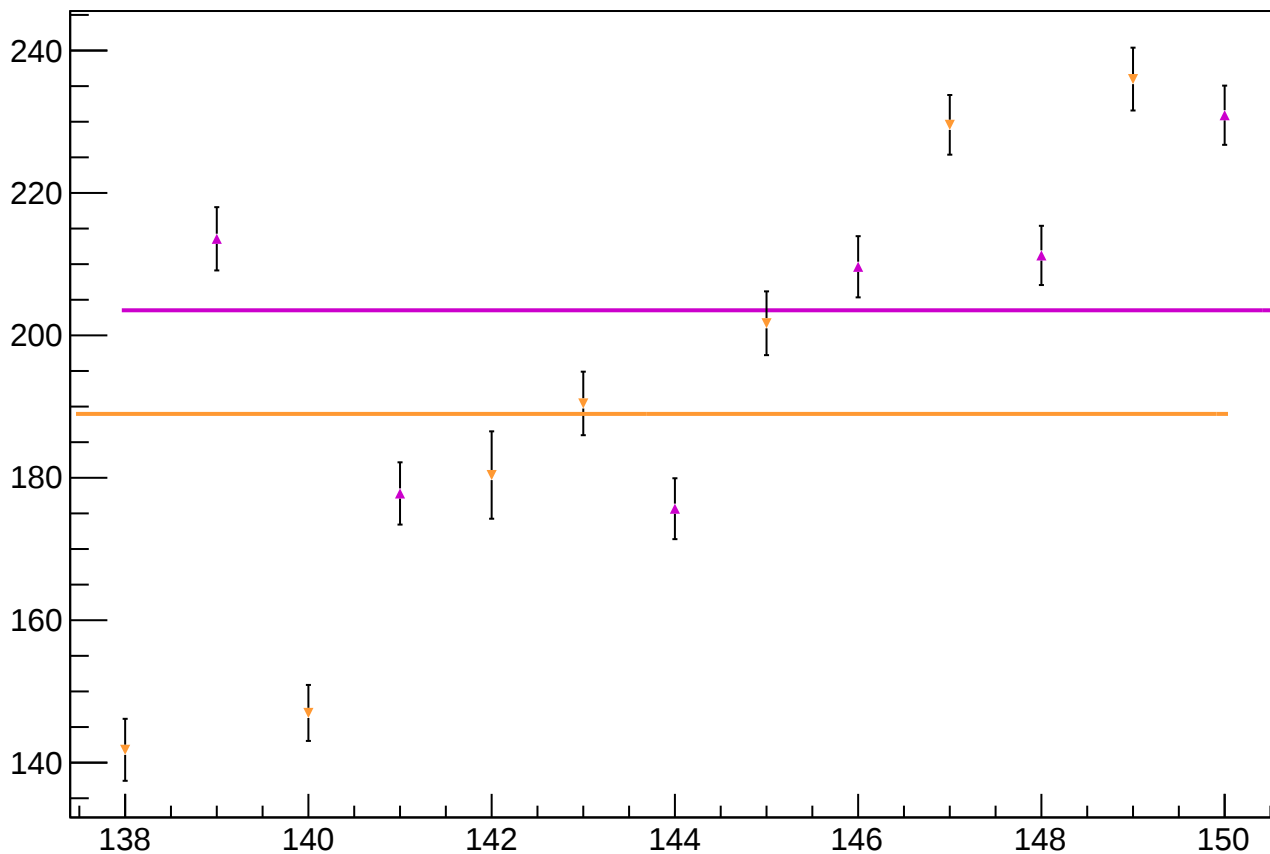
Right: -121.099+/-0.061  $\chi^2/\text{NDF}$ : 334303.0/34

In: -138.010+/-0.061  $\chi^2/\text{NDF}$ : 230182.3/22

Out: -135.054+/-0.059  $\chi^2/\text{NDF}$ : 312244.4/24

All: -136.502+/-0.042  $\chi^2/\text{NDF}$ : 543643.1/47

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: 188.972+/-1.684  $\chi^2/\text{NDF}$ : 449.2/6

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

Left In: 203.523+/-1.747  $\chi^2/\text{NDF}$ : 131.0/5

Left: 195.979+/-1.213  $\chi^2/\text{NDF}$ : 616.2/12

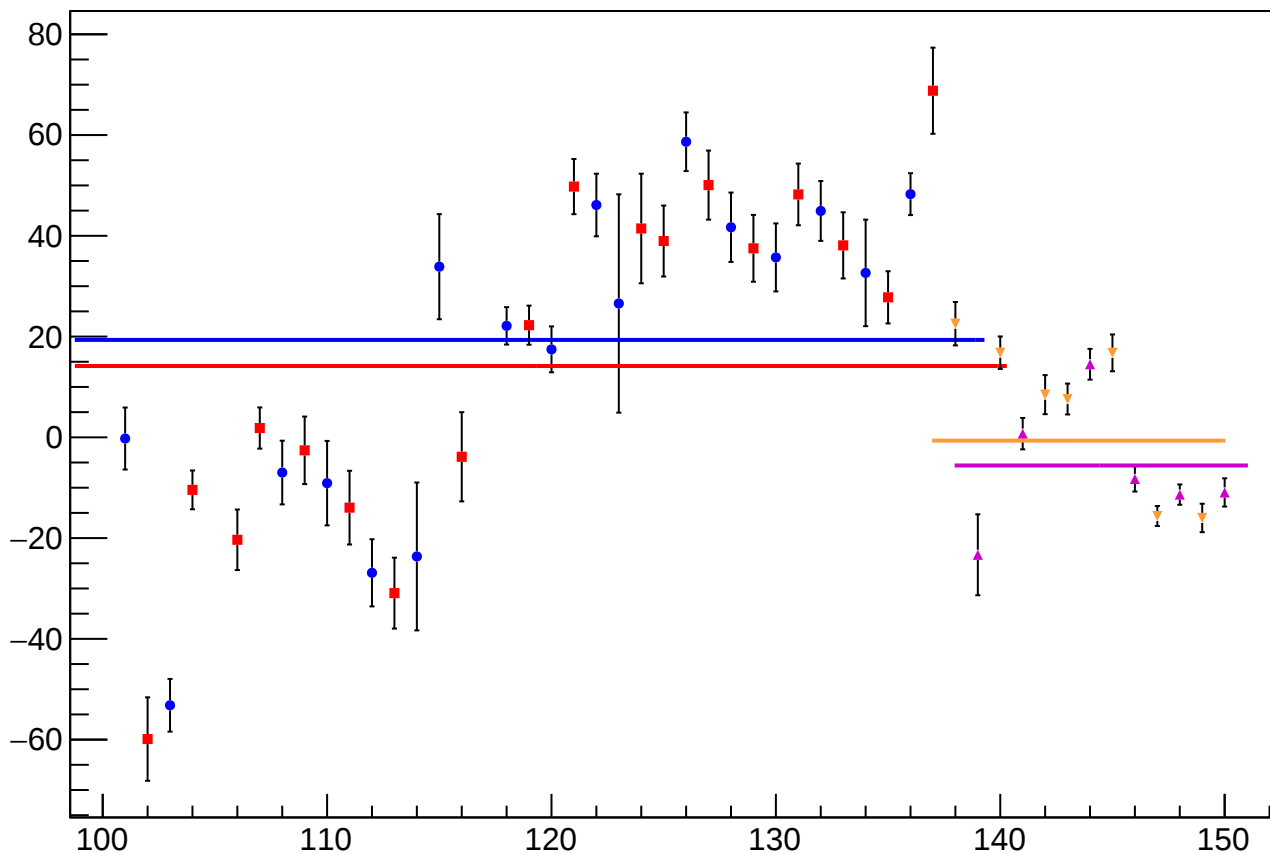
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 203.523+/-1.747  $\chi^2/\text{NDF}$ : 131.0/5

Out: 188.972+/-1.684  $\chi^2/\text{NDF}$ : 449.2/6

All: 195.979+/-1.213  $\chi^2/\text{NDF}$ : 616.2/12

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:  $-0.648 \pm 1.134$   $\chi^2/\text{NDF}: 180.3/6$

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}: 426.0/17$

Left In:  $-5.585 \pm 1.149$   $\chi^2/\text{NDF}: 65.2/5$

Left:  $-3.085 \pm 0.807$   $\chi^2/\text{NDF}: 254.9/12$

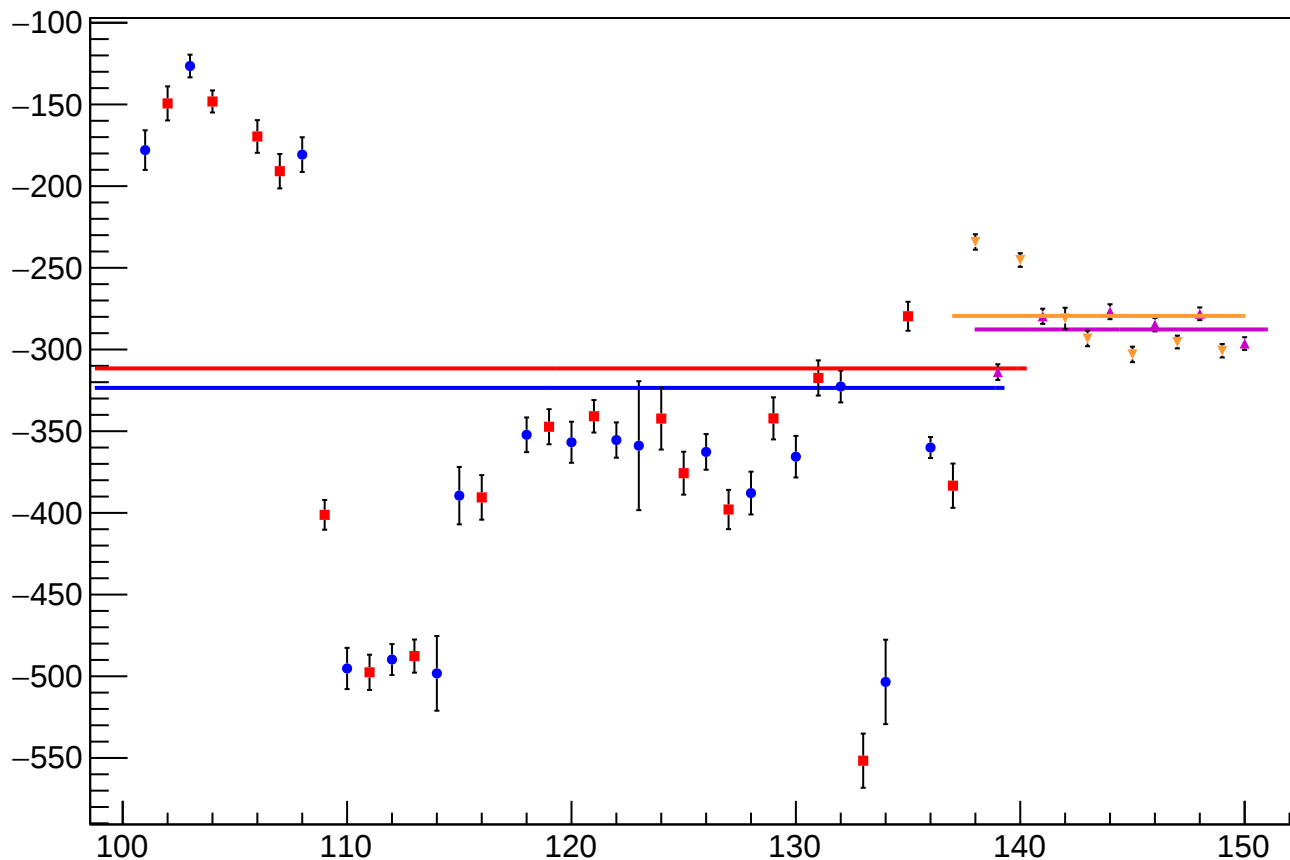
Right:  $16.585 \pm 1.014$   $\chi^2/\text{NDF}: 872.4/34$

In:  $3.765 \pm 0.908$   $\chi^2/\text{NDF}: 681.7/22$

Out:  $5.265 \pm 0.879$   $\chi^2/\text{NDF}: 674.4/24$

All:  $4.539 \pm 0.632$   $\chi^2/\text{NDF}: 1357.5/47$

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:  $-279.439 \pm 1.720$   $\chi^2/\text{NDF}$ : 235.3/6

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}$ : 2243.8/17

Left In:  $-287.725 \pm 1.745$   $\chi^2/\text{NDF}$ : 49.6/5

Left:  $-283.524 \pm 1.225$   $\chi^2/\text{NDF}$ : 296.4/12

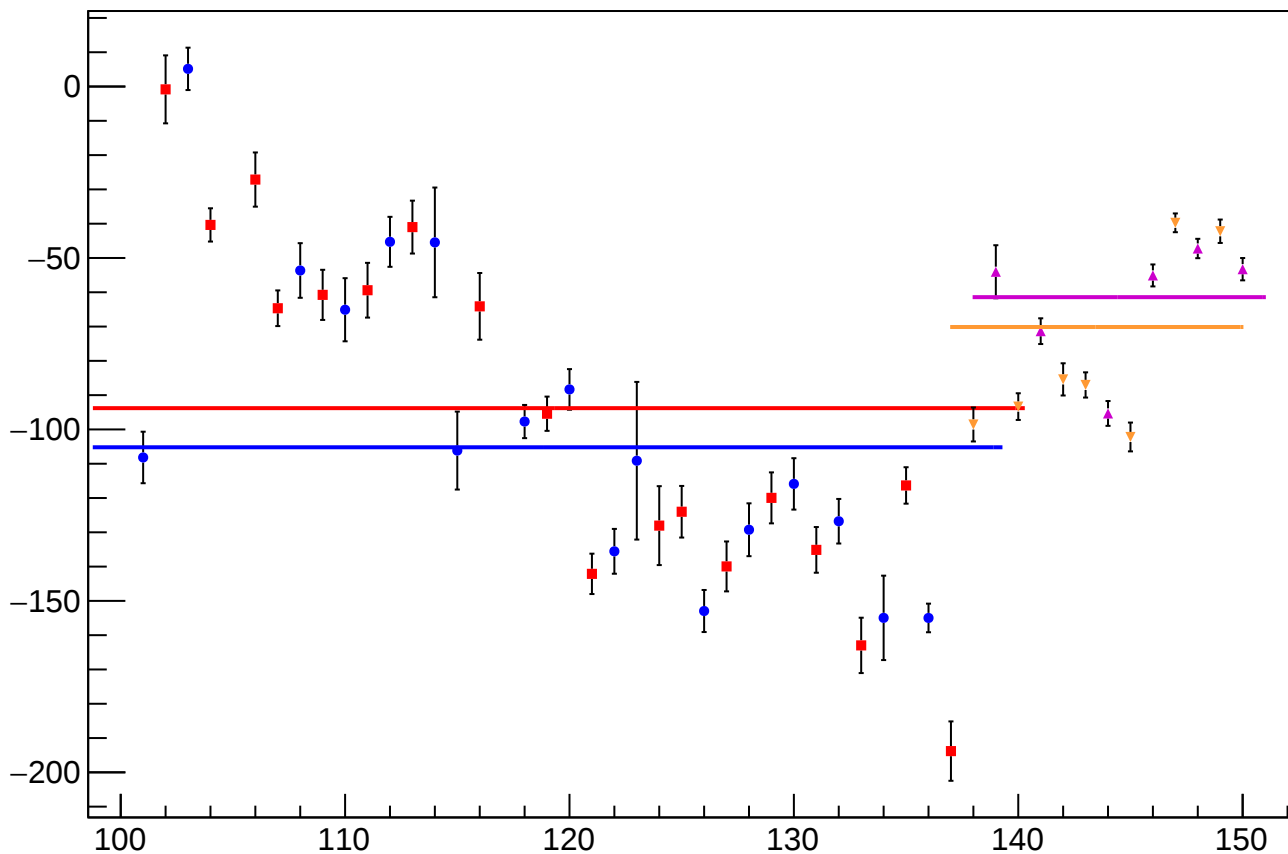
Right:  $-317.199 \pm 1.836$   $\chi^2/\text{NDF}$ : 4101.9/34

In:  $-298.411 \pm 1.461$   $\chi^2/\text{NDF}$ : 2022.8/22

Out:  $-289.616 \pm 1.422$   $\chi^2/\text{NDF}$ : 2589.6/24

All:  $-293.895 \pm 1.019$   $\chi^2/\text{NDF}$ : 4631.0/47

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:  $-70.130 \pm 1.411$   $\chi^2/\text{NDF}$ : 348.5/6

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

Left In:  $-61.424 \pm 1.441$   $\chi^2/\text{NDF}$ : 131.2/5

Left:  $-65.867 \pm 1.008$   $\chi^2/\text{NDF}$ : 498.3/12

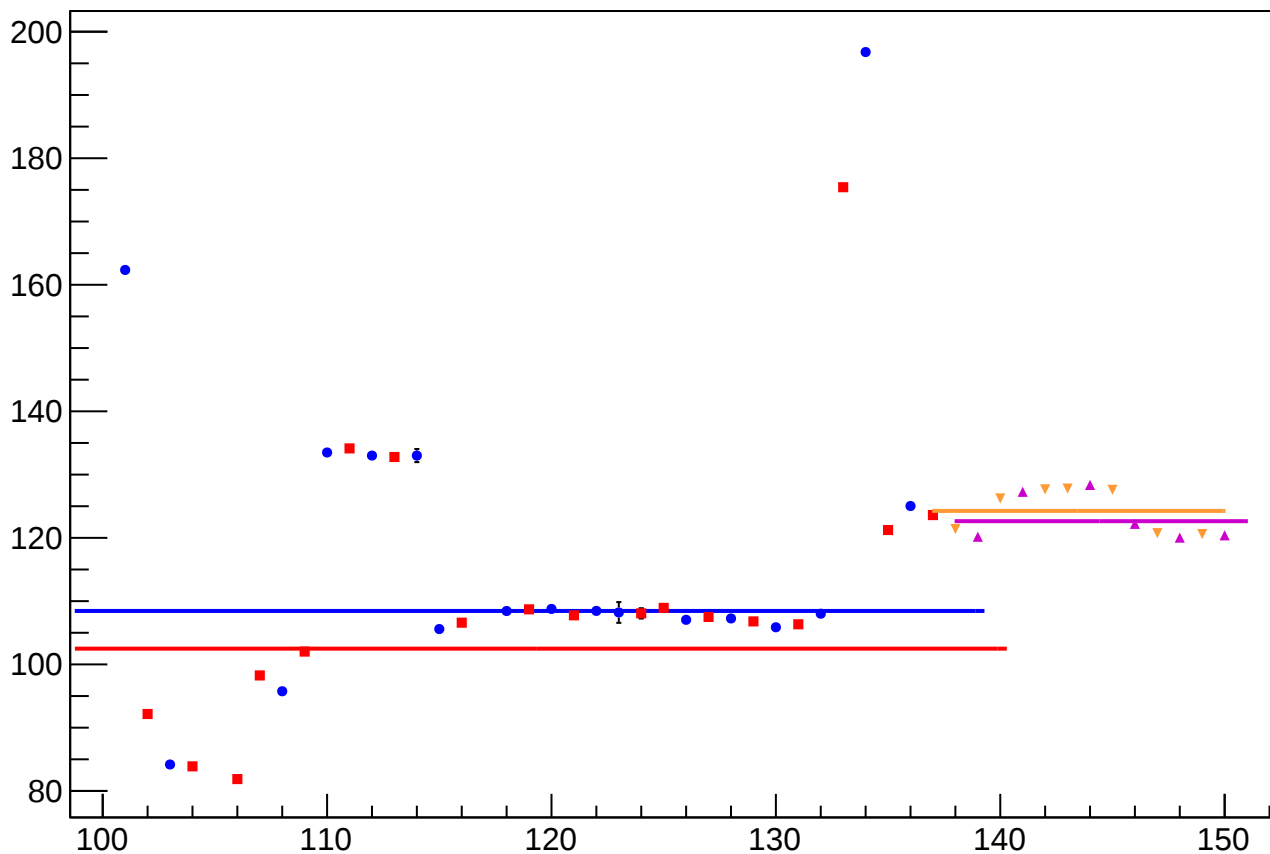
Right:  $-99.203 \pm 1.168$   $\chi^2/\text{NDF}$ : 1574.8/34

In:  $-79.770 \pm 1.098$   $\chi^2/\text{NDF}$ : 1253.6/22

Out:  $-80.405 \pm 1.062$   $\chi^2/\text{NDF}$ : 1286.0/24

All:  $-80.099 \pm 0.763$   $\chi^2/\text{NDF}$ : 2539.7/47

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: 124.263 $\pm$ 0.073  $\chi^2$ /NDF: 1956.1/6

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

Left In: 122.639 $\pm$ 0.073  $\chi^2$ /NDF: 2078.0/5

Left: 123.450 $\pm$ 0.051  $\chi^2$ /NDF: 4283.7/12

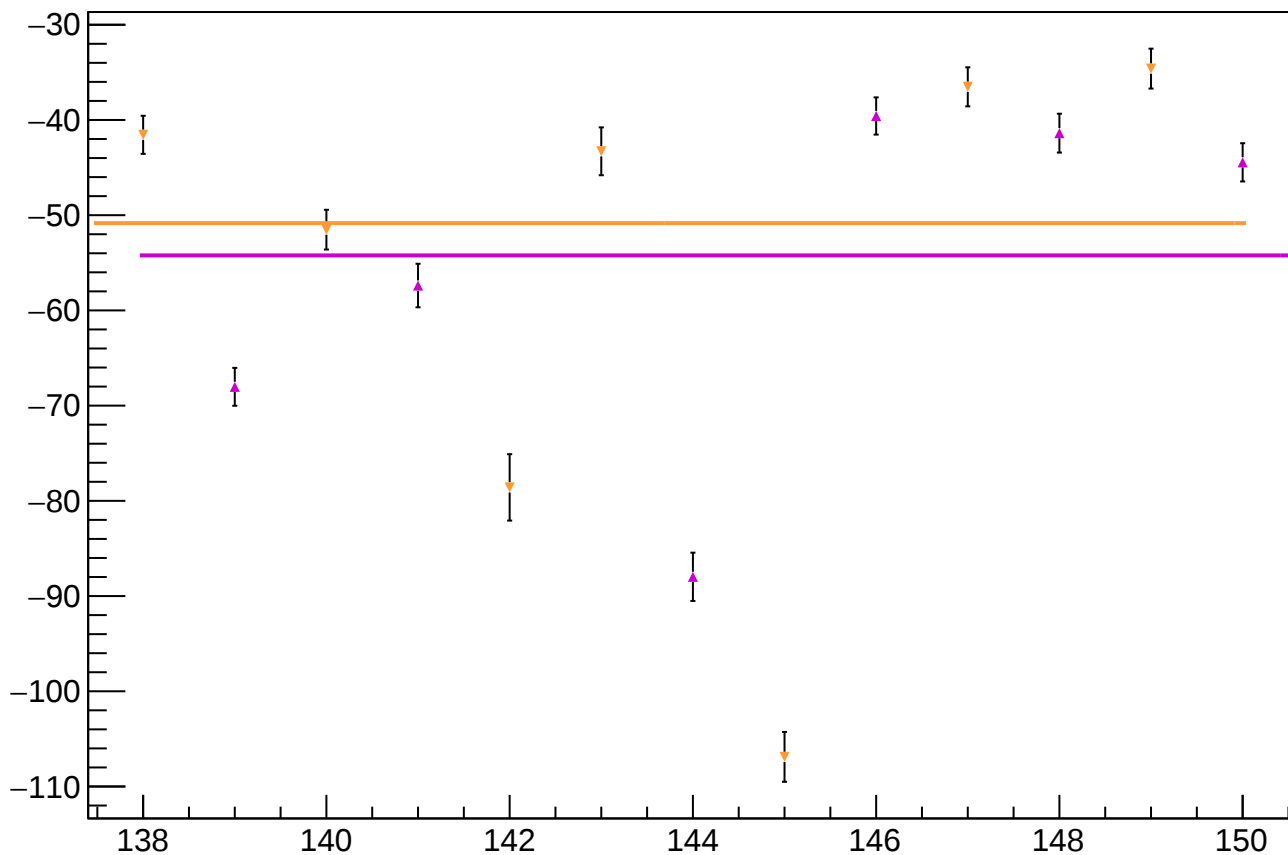
Right: 105.281 $\pm$ 0.058  $\chi^2$ /NDF: 128799.0/34

In: 116.630 $\pm$ 0.055  $\chi^2$ /NDF: 91491.0/22

Out: 114.360 $\pm$ 0.054  $\chi^2$ /NDF: 95650.8/24

All: 115.463 $\pm$ 0.038  $\chi^2$ /NDF: 188011.2/47

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: -50.833+/-0.867  $\chi^2/\text{NDF}$ :660.8/6

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

Left In: -54.223+/-0.861  $\chi^2/\text{NDF}$ :346.7/5

Left: -52.539+/-0.611  $\chi^2/\text{NDF}$ : 1015.2/12

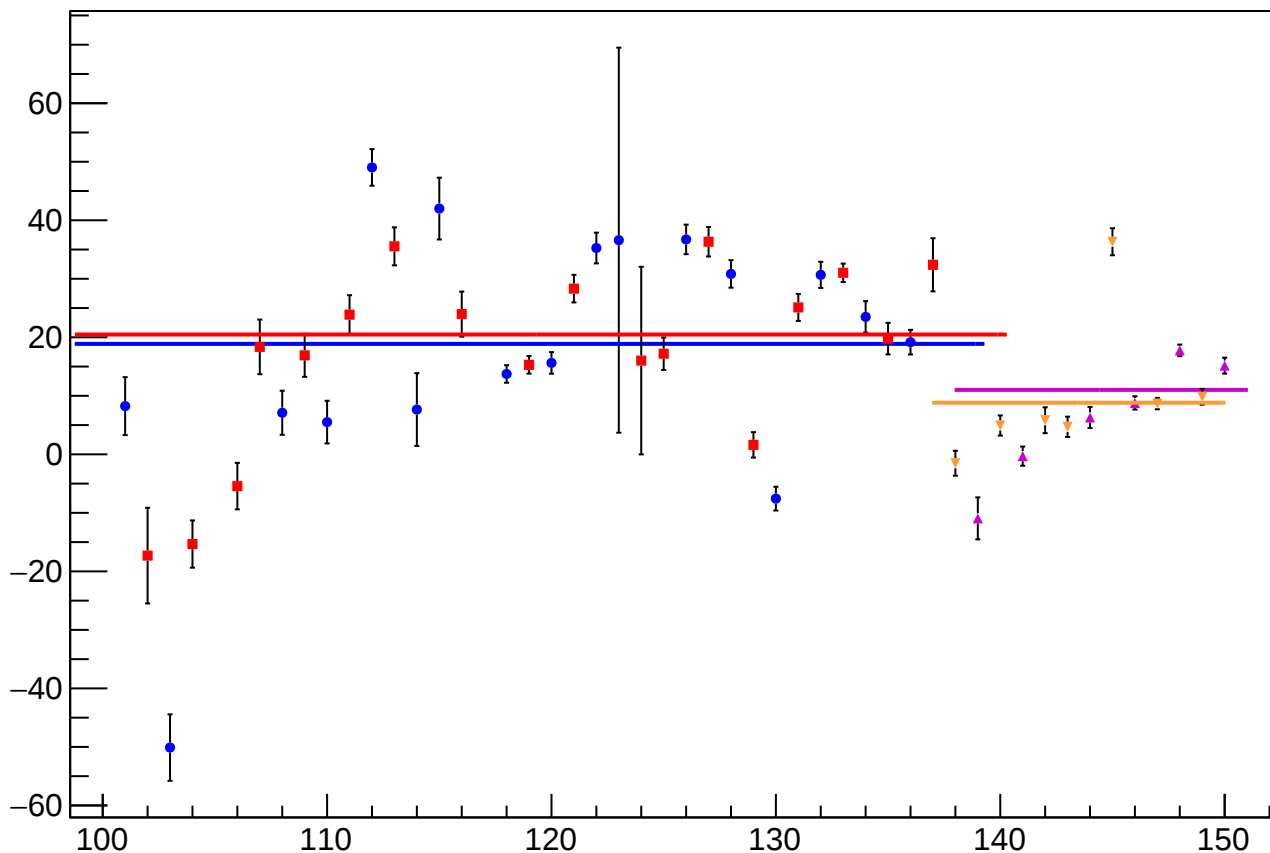
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.223+/-0.861  $\chi^2/\text{NDF}$ :346.7/5

Out: -50.833+/-0.867  $\chi^2/\text{NDF}$ :660.8/6

All: -52.539+/-0.611  $\chi^2/\text{NDF}$ : 1015.2/12

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.876+/-0.644  $\chi^2/\text{NDF}$ : 620.5/16

Left Out: 8.817+/-0.589  $\chi^2/\text{NDF}$ :178.4/6

Right Out: 20.474+/-0.644  $\chi^2/\text{NDF}$ : 362.4/17

Left In: 11.014+/-0.570  $\chi^2/\text{NDF}$ :151.4/5

Left: 9.953+/-0.409  $\chi^2/\text{NDF}$ : 337.0/12

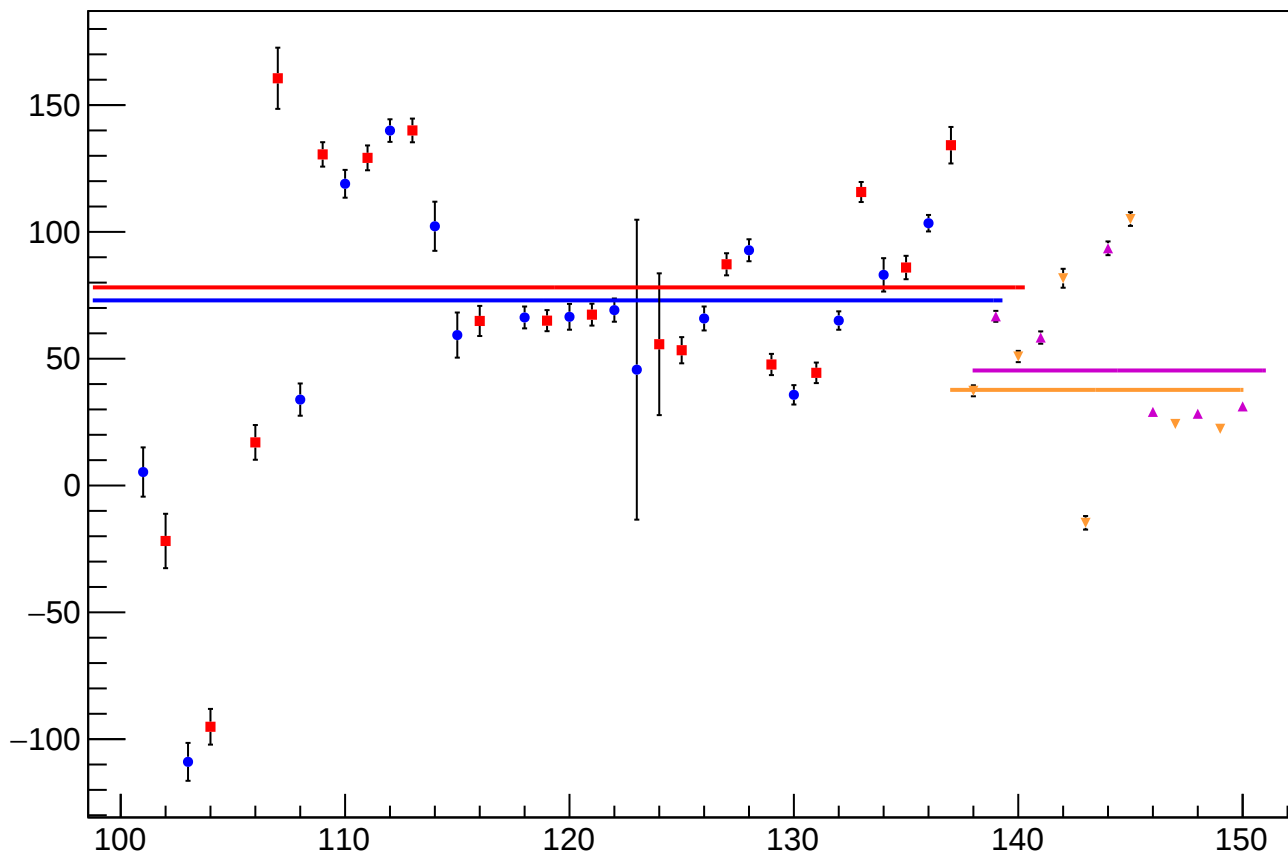
Right: 19.676+/-0.455  $\chi^2/\text{NDF}$ : 986.0/34

In: 14.462+/-0.427  $\chi^2/\text{NDF}$ :855.5/22

Out: 14.131+/-0.435  $\chi^2/\text{NDF}$ :719.4/24

All: 14.299+/-0.304  $\chi^2/\text{NDF}$ : 1575.1/47

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: 37.711 $\pm$ 0.879  $\chi^2$ /NDF:1287.9/6

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

Left In: 45.359 $\pm$ 0.856  $\chi^2$ /NDF:655.1/5

Left: 41.632 $\pm$ 0.613  $\chi^2$ /NDF: 1981.9/12

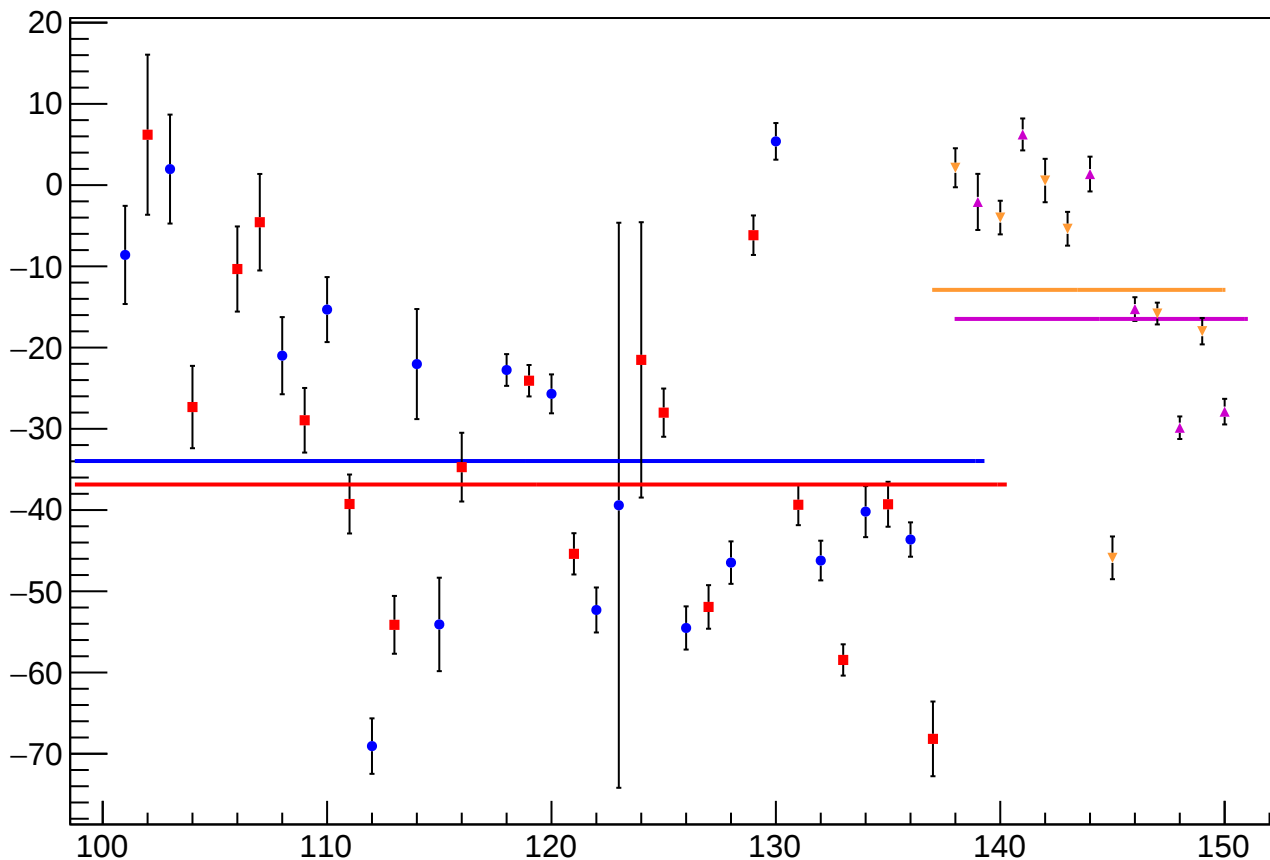
Right: 75.568 $\pm$ 0.868  $\chi^2$ /NDF: 2761.0/34

In: 54.381 $\pm$ 0.703  $\chi^2$ /NDF:2200.5/22

Out: 51.451 $\pm$ 0.714  $\chi^2$ /NDF:3554.1/24

All: 52.938 $\pm$ 0.501  $\chi^2$ /NDF: 5763.2/47

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:  $-12.895 \pm 0.734$   $\chi^2/\text{NDF}: 267.8/6$

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}: 535.3/17$

Left In:  $-16.473 \pm 0.716$   $\chi^2/\text{NDF}: 366.5/5$

Left:  $-14.729 \pm 0.512$   $\chi^2/\text{NDF}: 646.5/12$

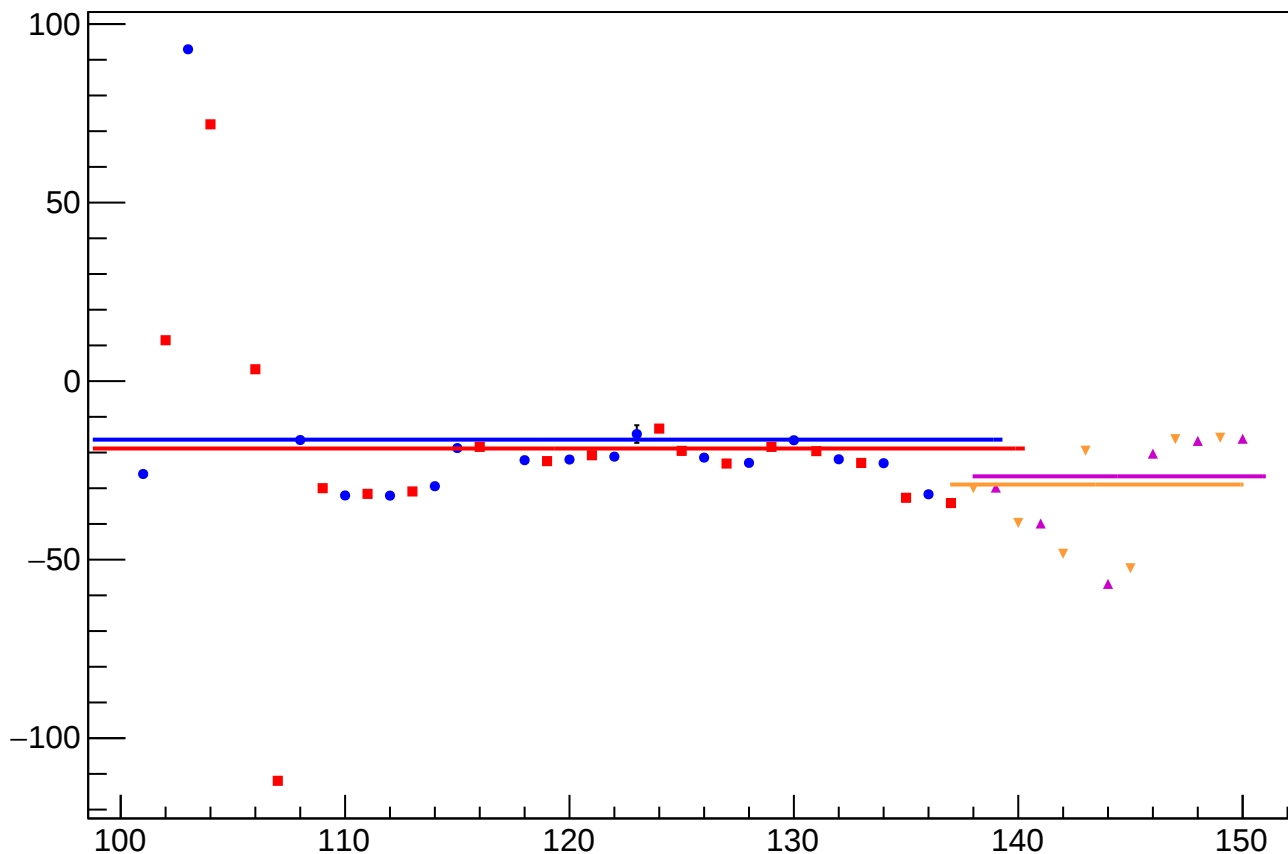
Right:  $-35.411 \pm 0.521$   $\chi^2/\text{NDF}: 1264.9/34$

In:  $-24.956 \pm 0.514$   $\chi^2/\text{NDF}: 1378.0/22$

Out:  $-24.825 \pm 0.520$   $\chi^2/\text{NDF}: 1334.0/24$

All:  $-24.892 \pm 0.365$   $\chi^2/\text{NDF}: 2712.0/47$

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:  $-28.962 \pm 0.037$   $\chi^2/\text{NDF}: 128736.4/6$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

Left In:  $-26.666 \pm 0.035$   $\chi^2/\text{NDF}: 122109.1/5$

Left:  $-27.763 \pm 0.026$   $\chi^2/\text{NDF}: 252845.7/12$

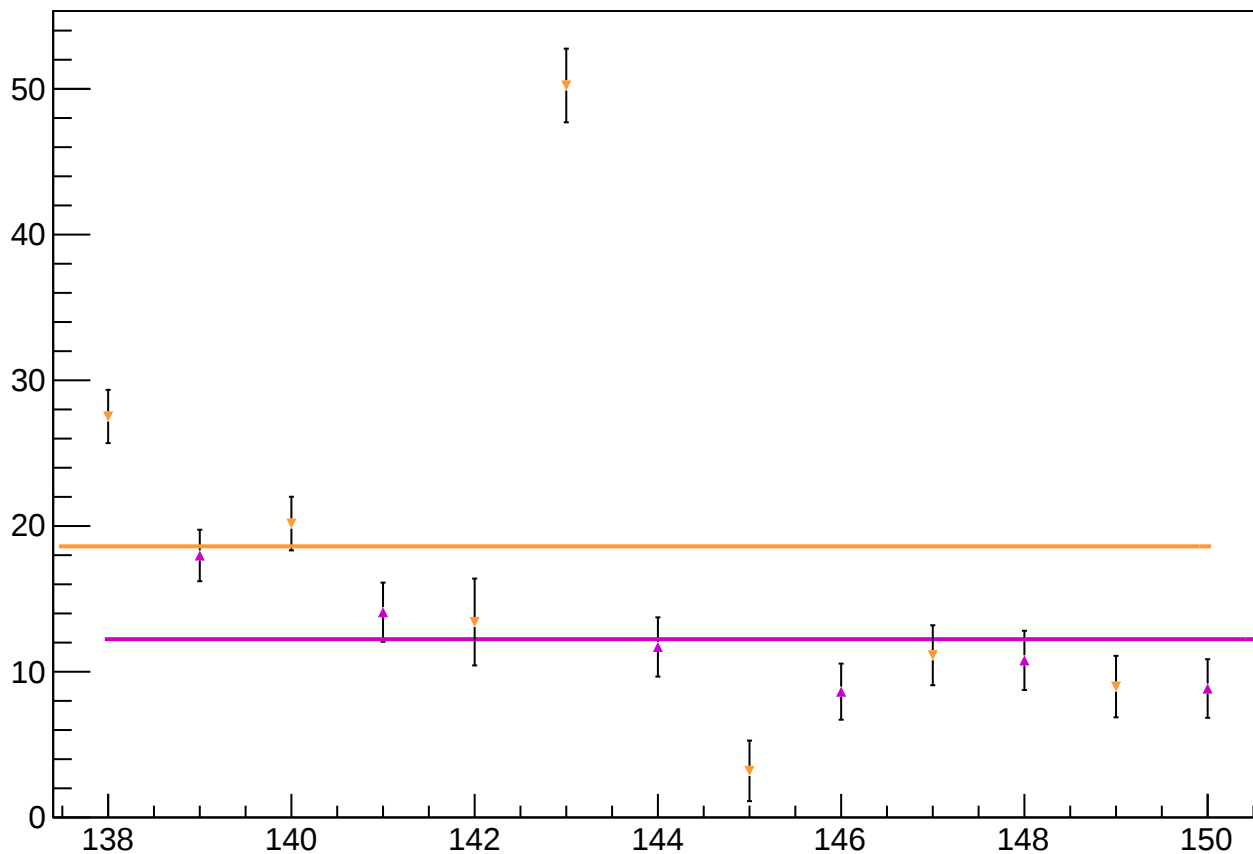
Right:  $-17.607 \pm 0.032$   $\chi^2/\text{NDF}: 909205.2/34$

In:  $-22.669 \pm 0.028$   $\chi^2/\text{NDF}: 629071.3/22$

Out:  $-24.911 \pm 0.029$   $\chi^2/\text{NDF}: 591805.0/24$

All:  $-23.752 \pm 0.020$   $\chi^2/\text{NDF}: 1224033.8/47$

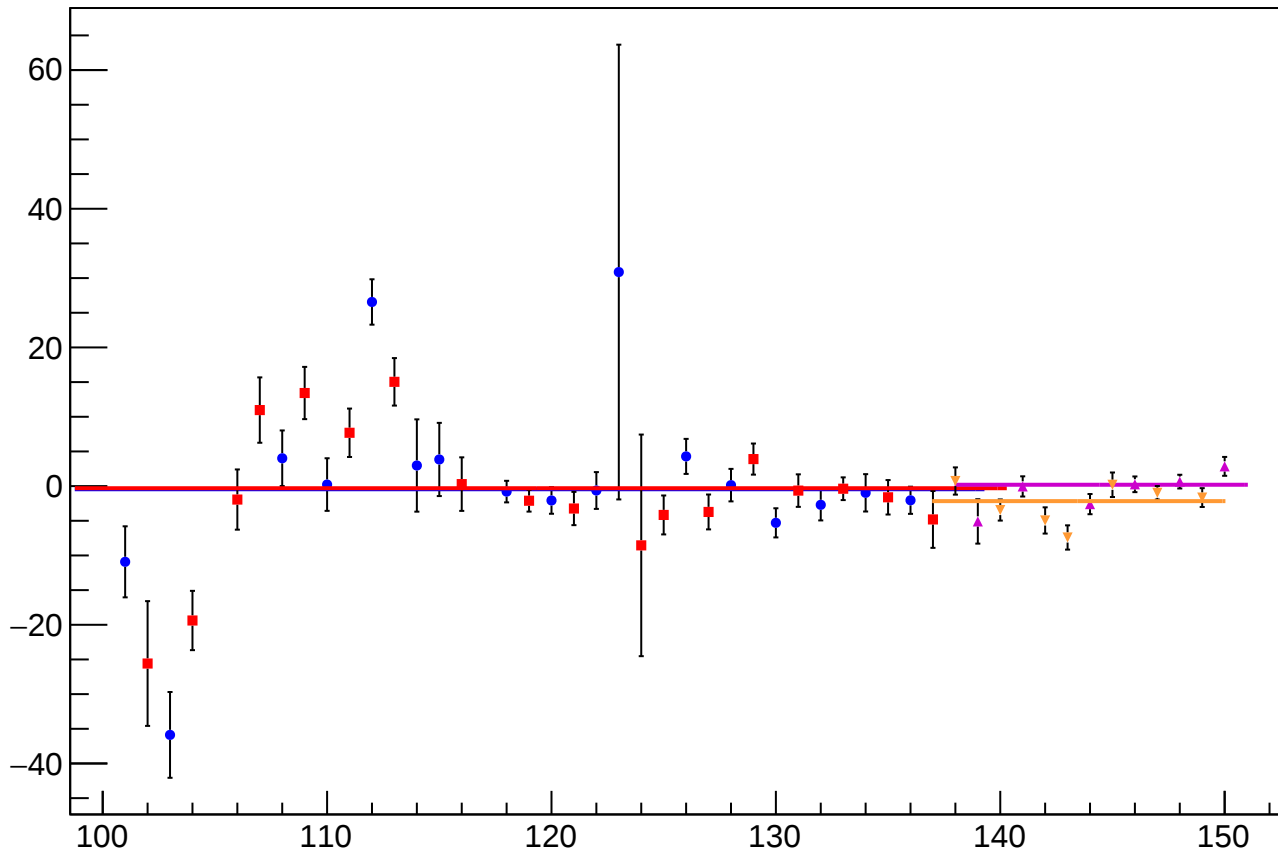
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 18.606 $\pm$ 0.802  $\chi^2$ /NDF:273.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 12.233 $\pm$ 0.800  $\chi^2$ /NDF:18.3/5

Left: 15.412 $\pm$ 0.566  $\chi^2$ /NDF: 323.1/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 12.233 $\pm$ 0.800  $\chi^2$ /NDF:18.3/5  
 Out: 18.606 $\pm$ 0.802  $\chi^2$ /NDF:273.1/6  
 All: 15.412 $\pm$ 0.566  $\chi^2$ /NDF: 323.1/12

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:  $-2.166 \pm 0.559$   $\chi^2/\text{NDF}$ : 17.5/6

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

Left In:  $0.195 \pm 0.543$   $\chi^2/\text{NDF}$ : 10.4/5

Left:  $-0.953 \pm 0.390$   $\chi^2/\text{NDF}$ : 37.1/12

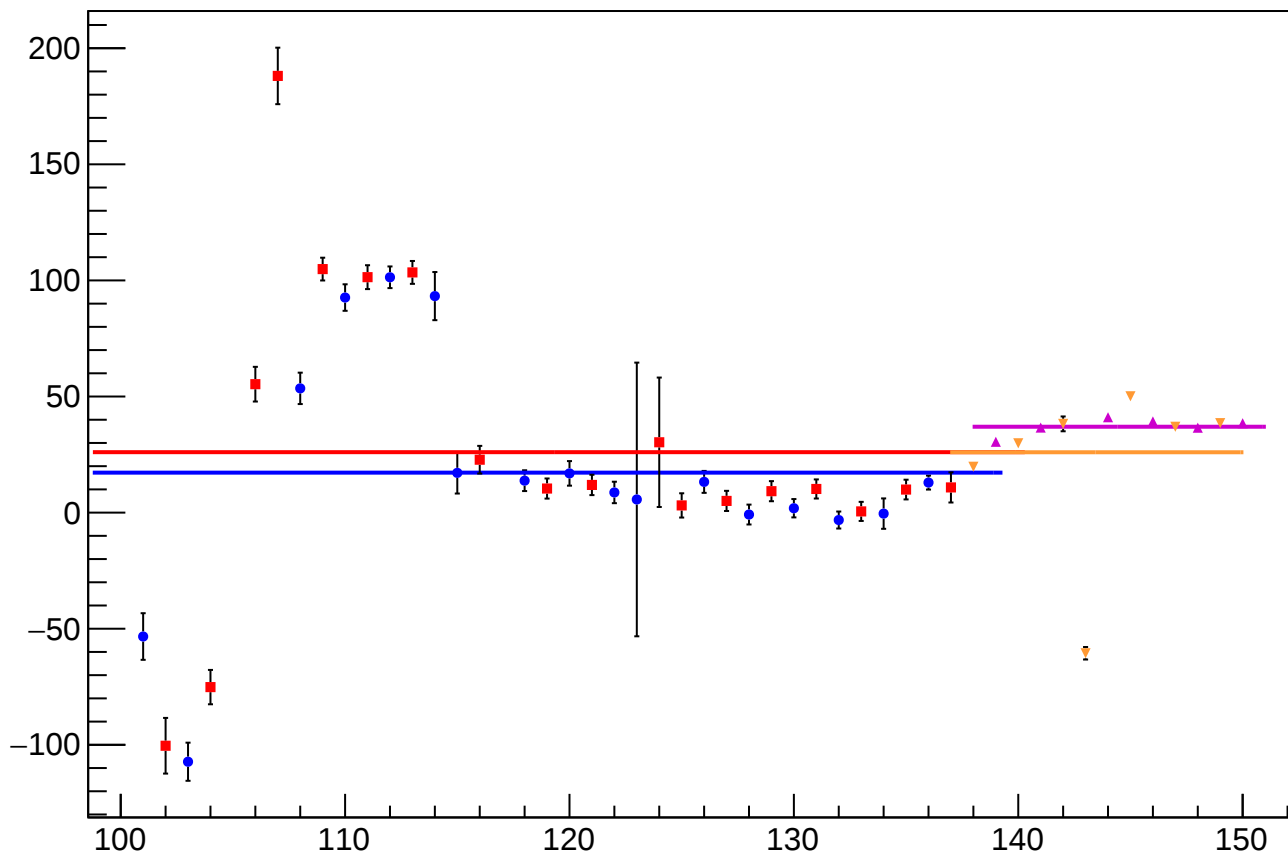
Right:  $-0.379 \pm 0.464$   $\chi^2/\text{NDF}$ : 203.7/34

In:  $-0.069 \pm 0.418$   $\chi^2/\text{NDF}$ : 130.6/22

Out:  $-1.386 \pm 0.426$   $\chi^2/\text{NDF}$ : 106.2/24

All:  $-0.715 \pm 0.298$   $\chi^2/\text{NDF}$ : 241.7/47

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:  $25.995 \pm 0.819$   $\chi^2/\text{NDF}: 1254.6/6$

Right Out:  $26.032 \pm 1.244$   $\chi^2/\text{NDF}: 1366.0/17$

Left In:  $36.988 \pm 0.803$   $\chi^2/\text{NDF}: 17.3/5$

Left:  $31.605 \pm 0.573$   $\chi^2/\text{NDF}: 1363.8/12$

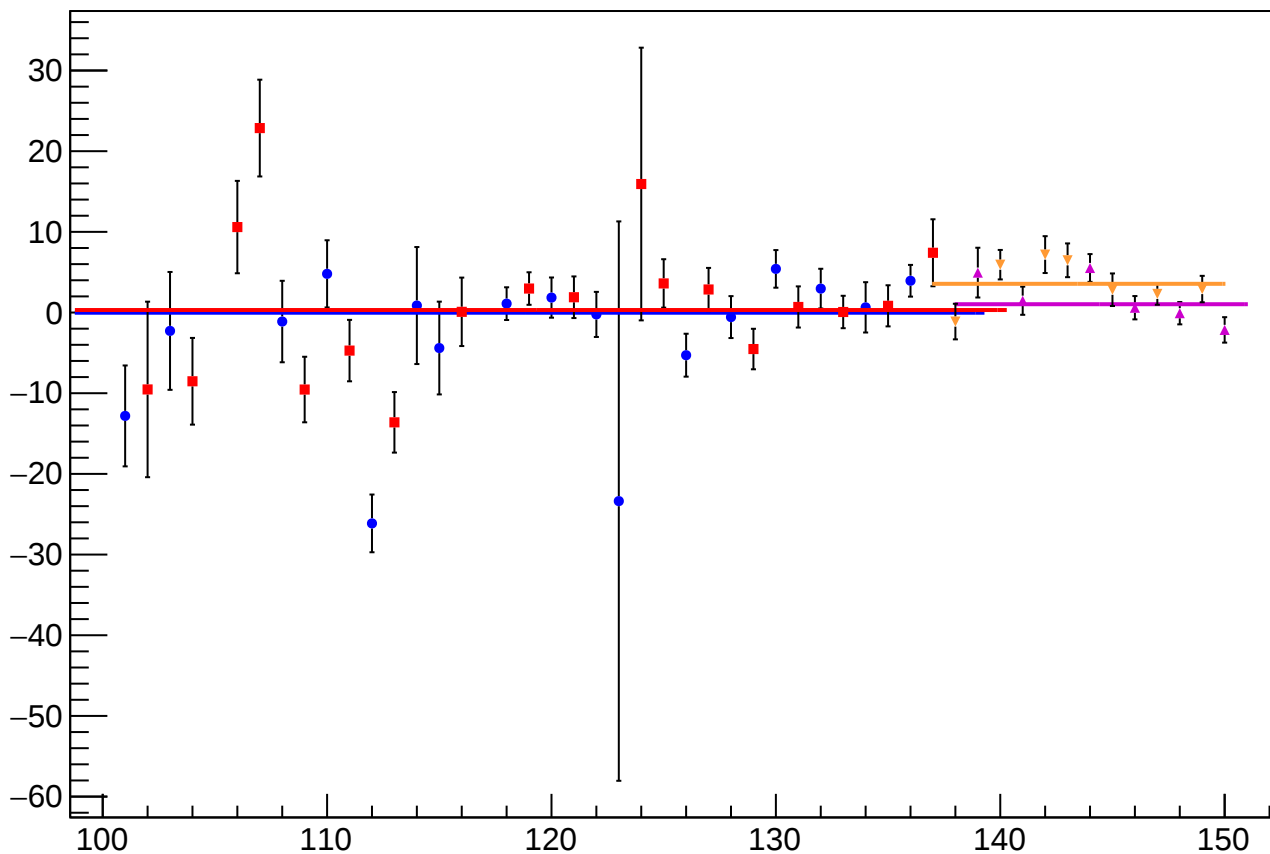
Right:  $21.614 \pm 0.879$   $\chi^2/\text{NDF}: 2331.3/34$

In:  $31.157 \pm 0.674$   $\chi^2/\text{NDF}: 1136.4/22$

Out:  $26.006 \pm 0.684$   $\chi^2/\text{NDF}: 2620.6/24$

All:  $28.621 \pm 0.480$   $\chi^2/\text{NDF}: 3785.7/47$

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:  $3.560 \pm 0.691$   $\chi^2/\text{NDF}$ : 11.8/6

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

Left In:  $1.032 \pm 0.678$   $\chi^2/\text{NDF}$ : 13.3/5

Left:  $2.273 \pm 0.484$   $\chi^2/\text{NDF}$ : 31.9/12

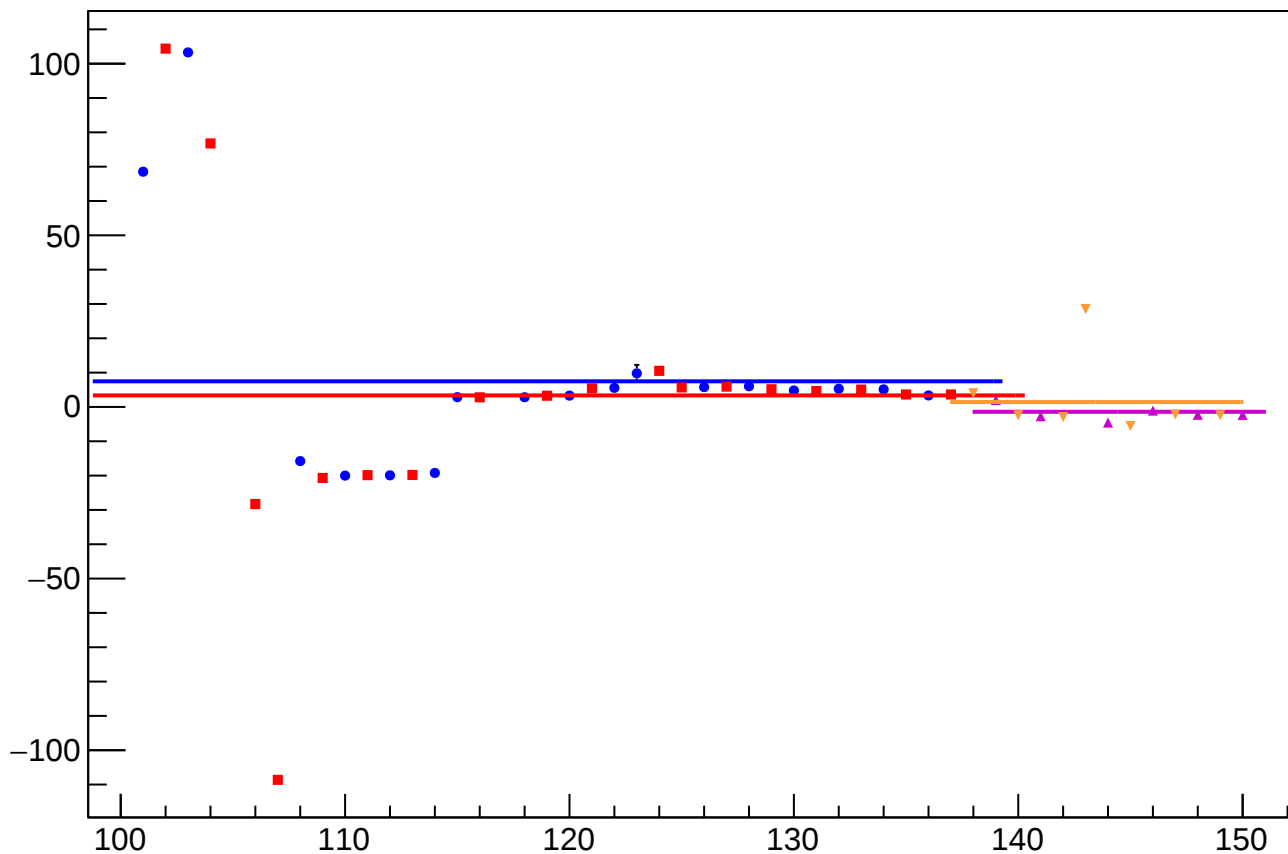
Right:  $0.144 \pm 0.528$   $\chi^2/\text{NDF}$ : 130.0/34

In:  $0.554 \pm 0.502$   $\chi^2/\text{NDF}$ : 90.2/22

Out:  $2.068 \pm 0.508$   $\chi^2/\text{NDF}$ : 76.0/24

All:  $1.301 \pm 0.357$   $\chi^2/\text{NDF}$ : 170.8/47

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 7.467 $\pm$ 0.044  $\chi^2$ /NDF: 355890.1/16

Left Out: 1.453 $\pm$ 0.034  $\chi^2$ /NDF: 77265.8/6

Right Out: 3.362 $\pm$ 0.046  $\chi^2$ /NDF: 504811.4/17

Left In: -1.407 $\pm$ 0.033  $\chi^2$ /NDF: 4131.9/5

Left: -0.029 $\pm$ 0.024  $\chi^2$ /NDF: 84998.2/12

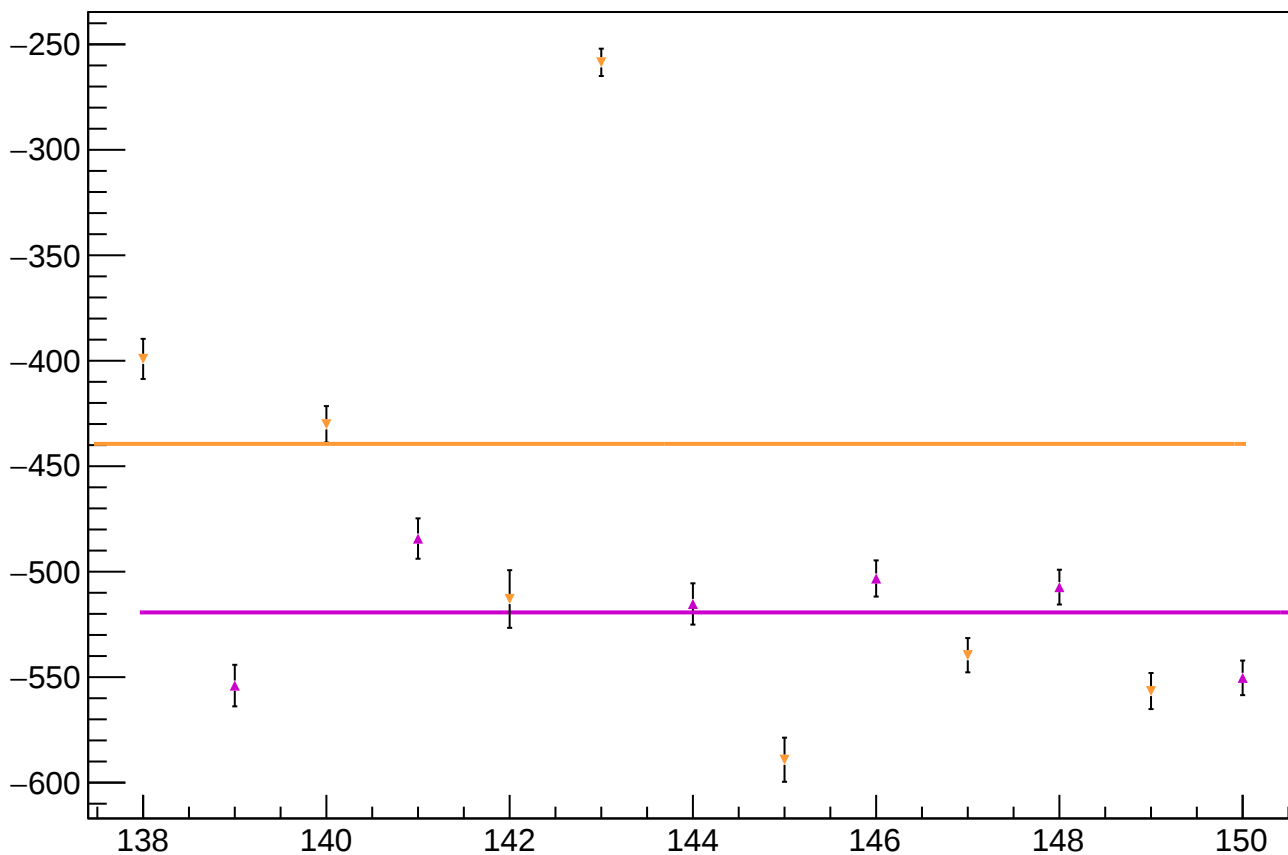
Right: 5.466 $\pm$ 0.032  $\chi^2$ /NDF: 864856.4/34

In: 1.756 $\pm$ 0.027  $\chi^2$ /NDF: 385650.4/22

Out: 2.143 $\pm$ 0.027  $\chi^2$ /NDF: 583196.1/24

All: 1.943 $\pm$ 0.019  $\chi^2$ /NDF: 968949.3/47

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: -439.410+/-3.304  $\chi^2/\text{NDF}$ :1372.6/6

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

Left In: -519.312+/-3.654  $\chi^2/\text{NDF}$ :45.9/5

Left: -475.352+/-2.451  $\chi^2/\text{NDF}$ : 1681.6/12

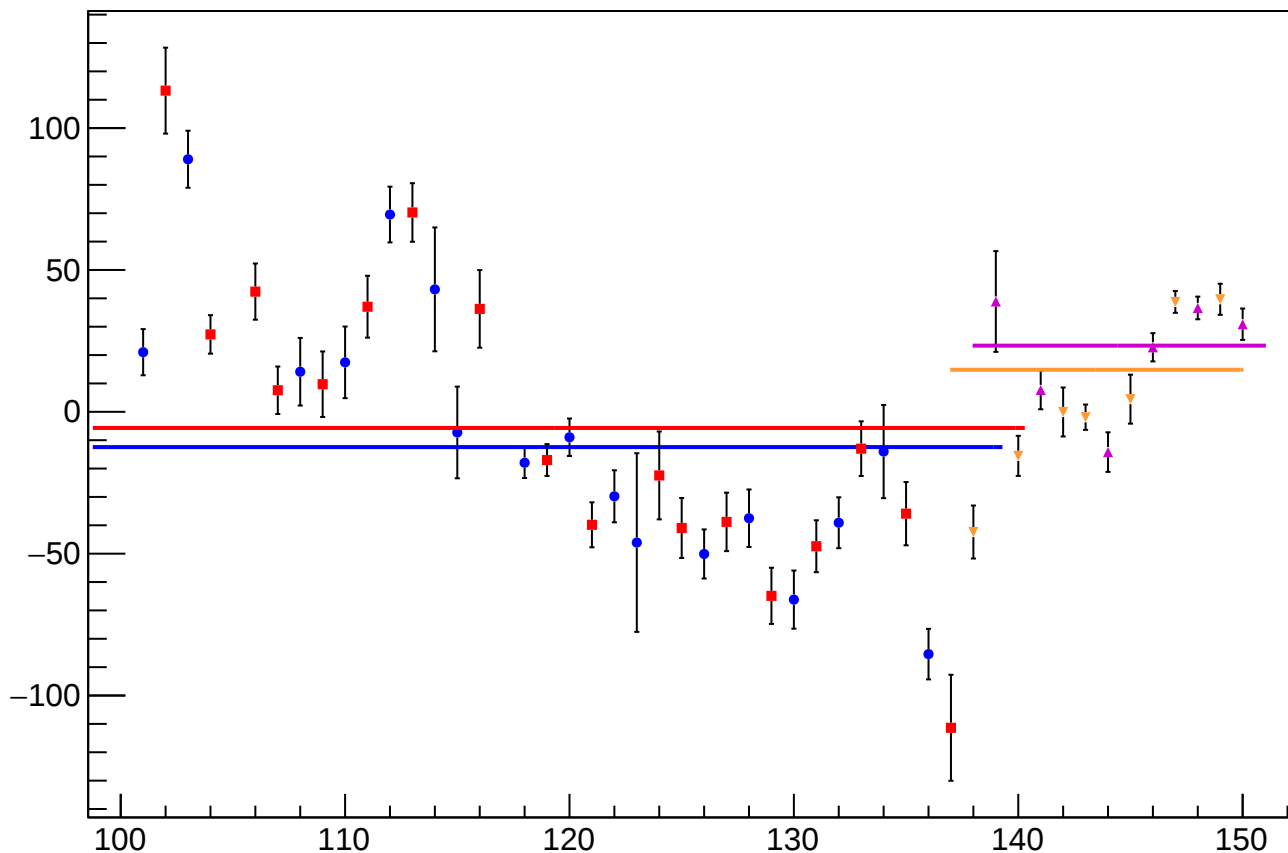
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -519.312+/-3.654  $\chi^2/\text{NDF}$ :45.9/5

Out: -439.410+/-3.304  $\chi^2/\text{NDF}$ :1372.6/6

All: -475.352+/-2.451  $\chi^2/\text{NDF}$ : 1681.6/12

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:  $14.831 \pm 2.184$   $\chi^2/\text{NDF}$ : 133.7/6

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

Left In:  $23.324 \pm 2.349$   $\chi^2/\text{NDF}$ : 47.9/5

Left:  $18.770 \pm 1.600$   $\chi^2/\text{NDF}$ : 188.6/12

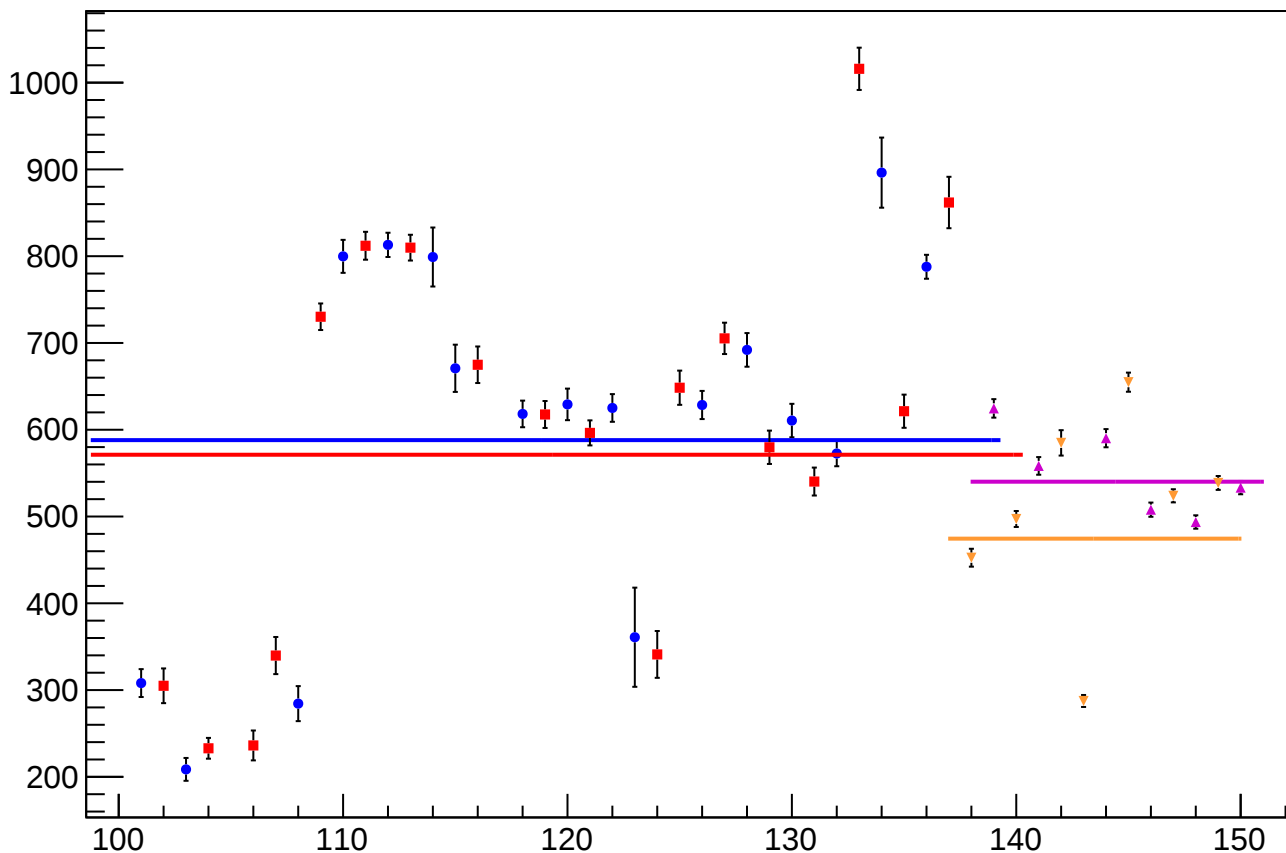
Right:  $-8.982 \pm 1.618$   $\chi^2/\text{NDF}$ : 678.2/34

In:  $5.186 \pm 1.649$   $\chi^2/\text{NDF}$ : 505.7/22

Out:  $4.934 \pm 1.572$   $\chi^2/\text{NDF}$ : 509.9/24

All:  $5.054 \pm 1.138$   $\chi^2/\text{NDF}$ : 1015.6/47

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: 474.500 $\pm$ 3.369  $\chi^2$ /NDF:1175.3/6

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

Left In: 540.124 $\pm$ 3.621  $\chi^2$ /NDF:141.3/5

Left: 504.953 $\pm$ 2.467  $\chi^2$ /NDF: 1492.7/12

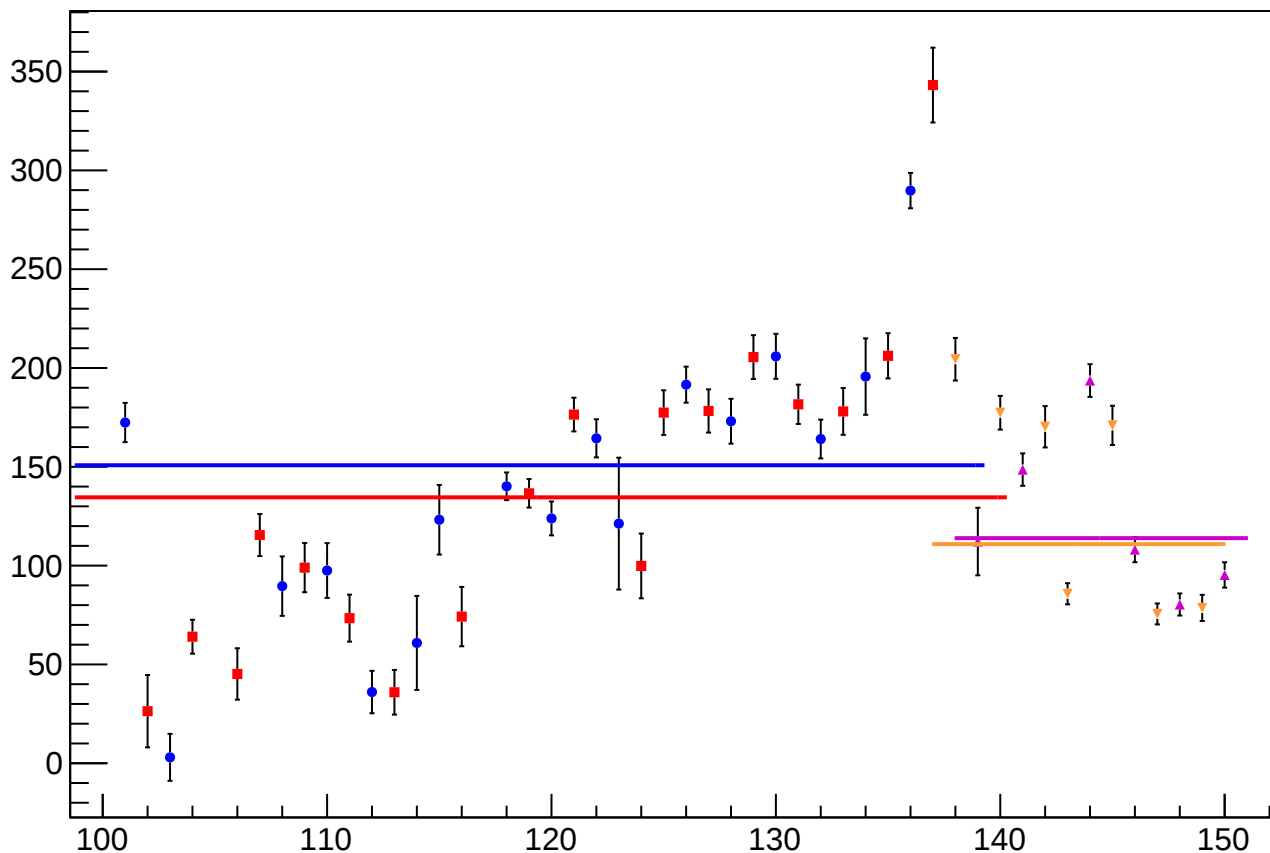
Right: 579.261 $\pm$ 2.996  $\chi^2$ /NDF: 4816.0/34

In: 559.846 $\pm$ 2.777  $\chi^2$ /NDF:2341.1/22

Out: 512.909 $\pm$ 2.616  $\chi^2$ /NDF:4182.8/24

All: 534.973 $\pm$ 1.904  $\chi^2$ /NDF: 6675.3/47

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: 110.887 $\pm$ 2.722  $\chi^2$ /NDF: 295.2/6

Right Out: 134.549 $\pm$ 2.619  $\chi^2$ /NDF: 576.2/17

Left In: 113.905 $\pm$ 2.963  $\chi^2$ /NDF: 156.2/5

Left: 112.269 $\pm$ 2.005  $\chi^2$ /NDF: 451.9/12

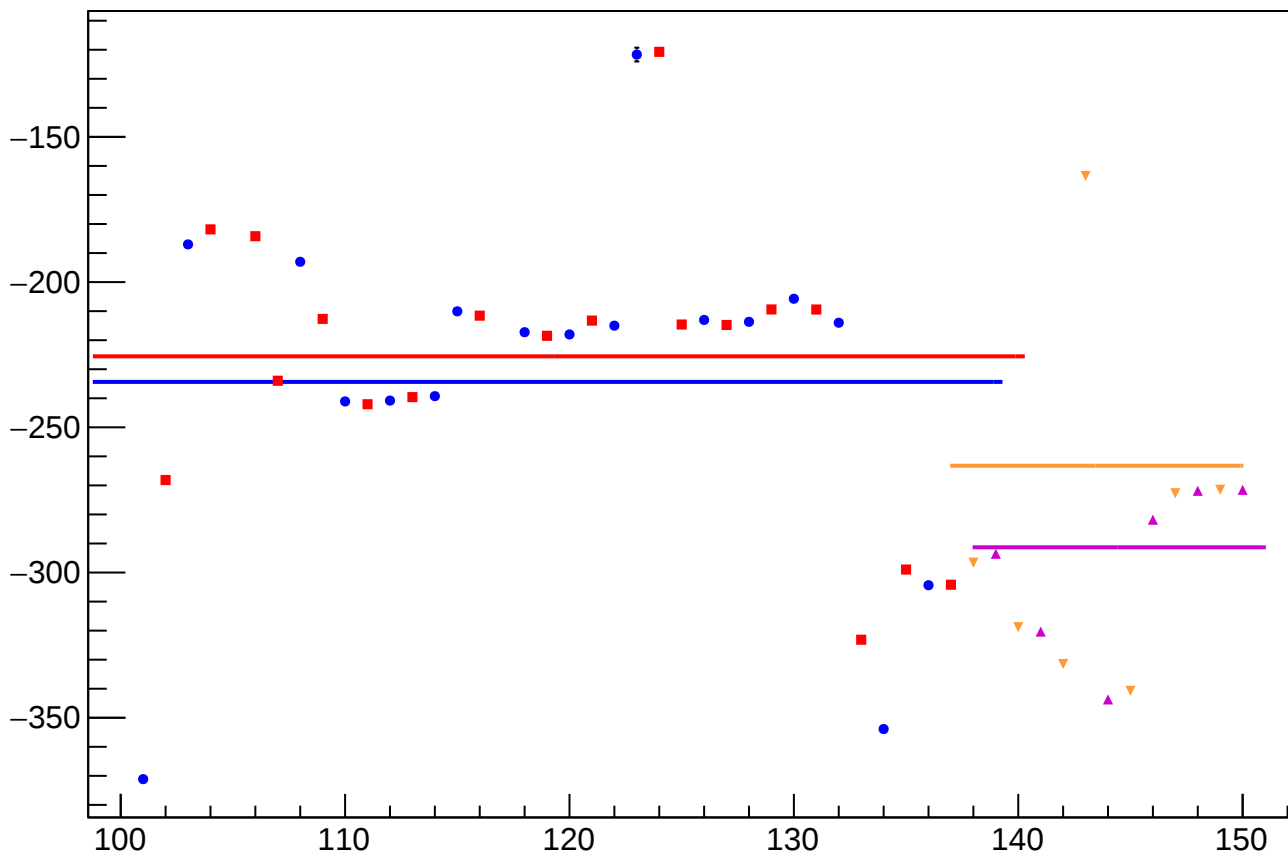
Right: 142.483 $\pm$ 1.873  $\chi^2$ /NDF: 1228.1/34

In: 134.191 $\pm$ 1.987  $\chi^2$ /NDF: 874.6/22

Out: 123.174 $\pm$ 1.888  $\chi^2$ /NDF: 910.7/24

All: 128.399 $\pm$ 1.369  $\chi^2$ /NDF: 1801.4/47

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -234.360+/-0.148  $\chi^2/\text{NDF}$ : 145159.1/16

Left Out: -263.233+/-0.142  $\chi^2/\text{NDF}$ : 200838.4/6

Right Out: -225.561+/-0.142  $\chi^2/\text{NDF}$ : 92955.0/17

Left In: -291.308+/-0.152  $\chi^2/\text{NDF}$ : 25948.3/5

Left: -276.401+/-0.104  $\chi^2/\text{NDF}$ : 245012.6/12

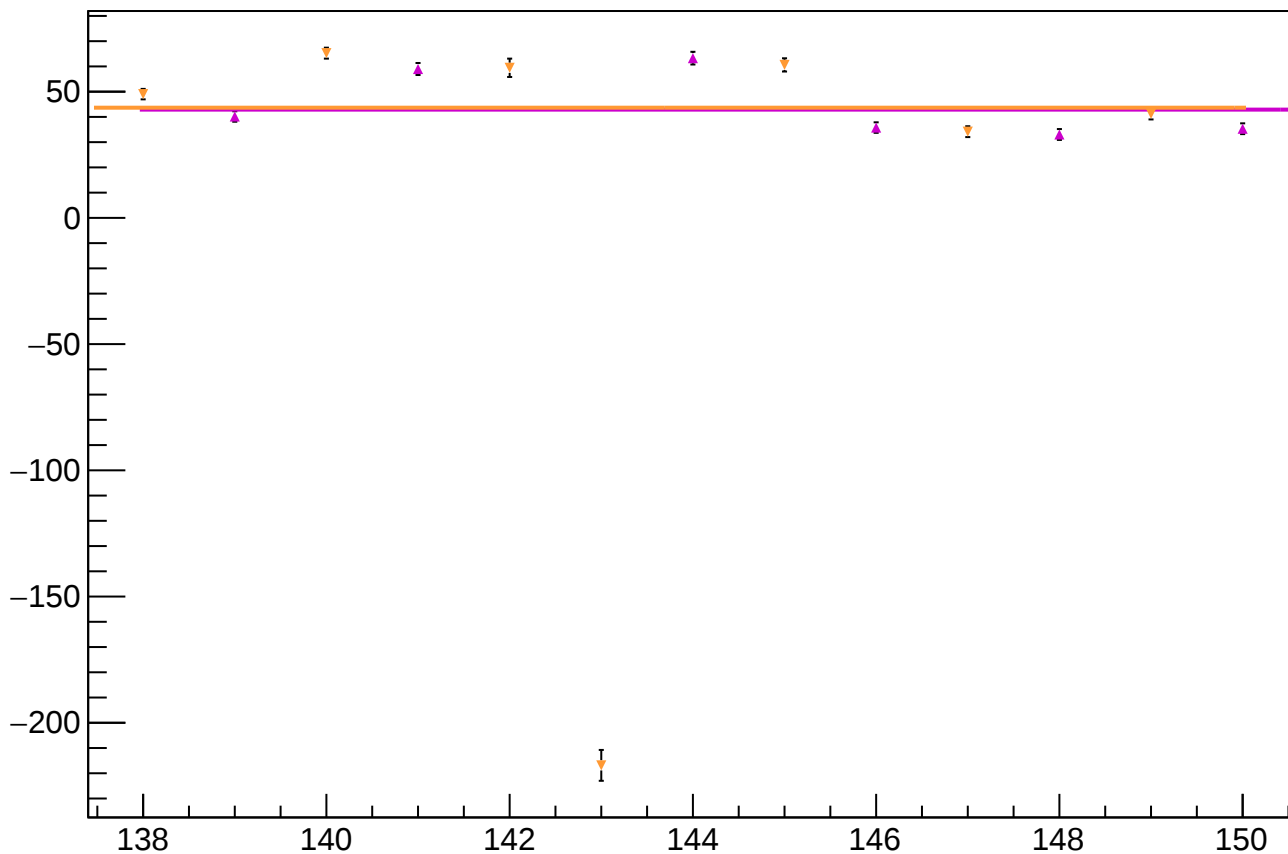
Right: -229.762+/-0.103  $\chi^2/\text{NDF}$ : 239949.0/34

In: -262.254+/-0.106  $\chi^2/\text{NDF}$ : 243161.3/22

Out: -244.331+/-0.101  $\chi^2/\text{NDF}$ : 328897.4/24

All: -252.814+/-0.073  $\chi^2/\text{NDF}$ : 587100.6/47

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: 43.650+/-0.948  $\chi^2/\text{NDF}$ :2004.6/6

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

Left In: 42.887+/-0.900  $\chi^2/\text{NDF}$ :158.4/5

Left: 43.249+/-0.653  $\chi^2/\text{NDF}$ : 2163.4/12

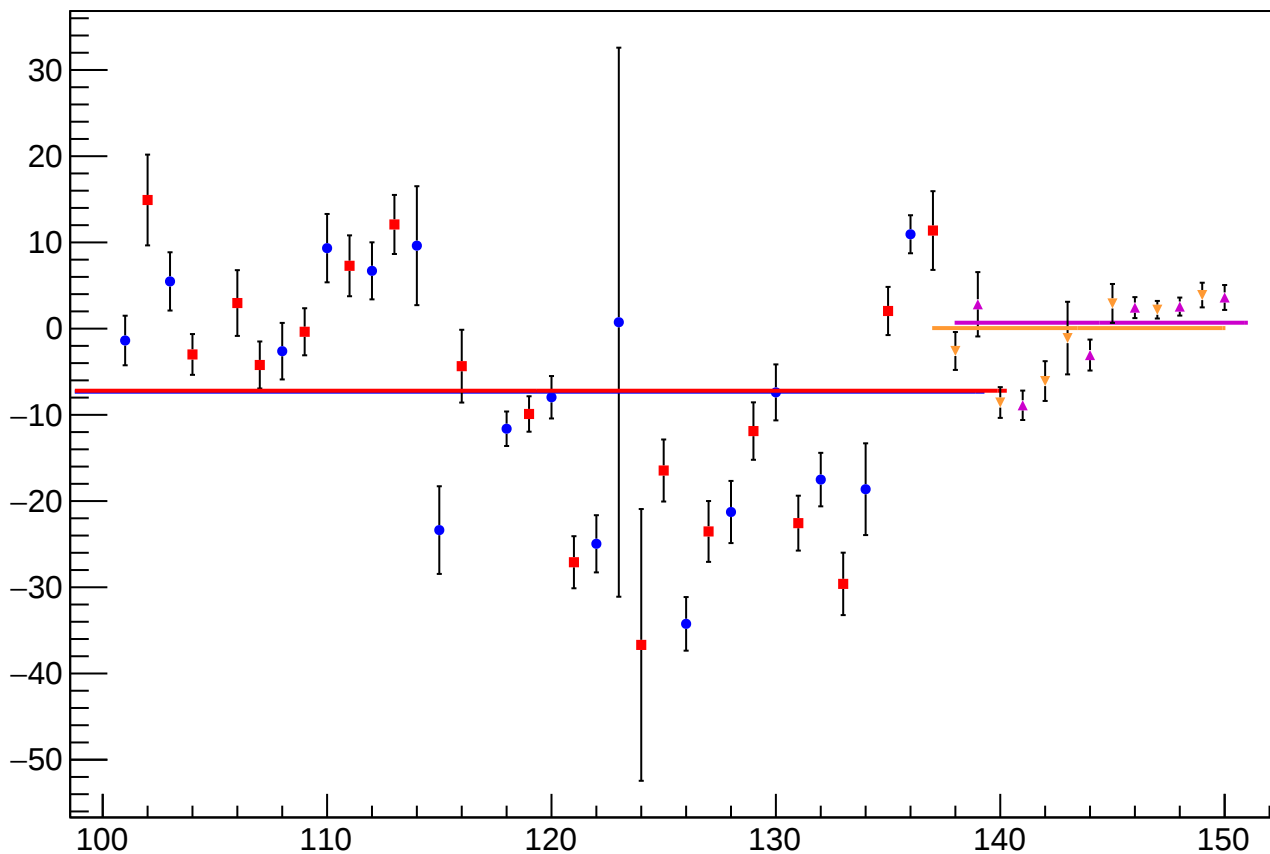
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.887+/-0.900  $\chi^2/\text{NDF}$ :158.4/5

Out: 43.650+/-0.948  $\chi^2/\text{NDF}$ :2004.6/6

All: 43.249+/-0.653  $\chi^2/\text{NDF}$ : 2163.4/12

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:  $0.062 \pm 0.644$   $\chi^2/\text{NDF}$ : 45.2/6

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

Left In:  $0.685 \pm 0.598$   $\chi^2/\text{NDF}$ : 45.6/5

Left:  $0.397 \pm 0.438$   $\chi^2/\text{NDF}$ : 91.4/12

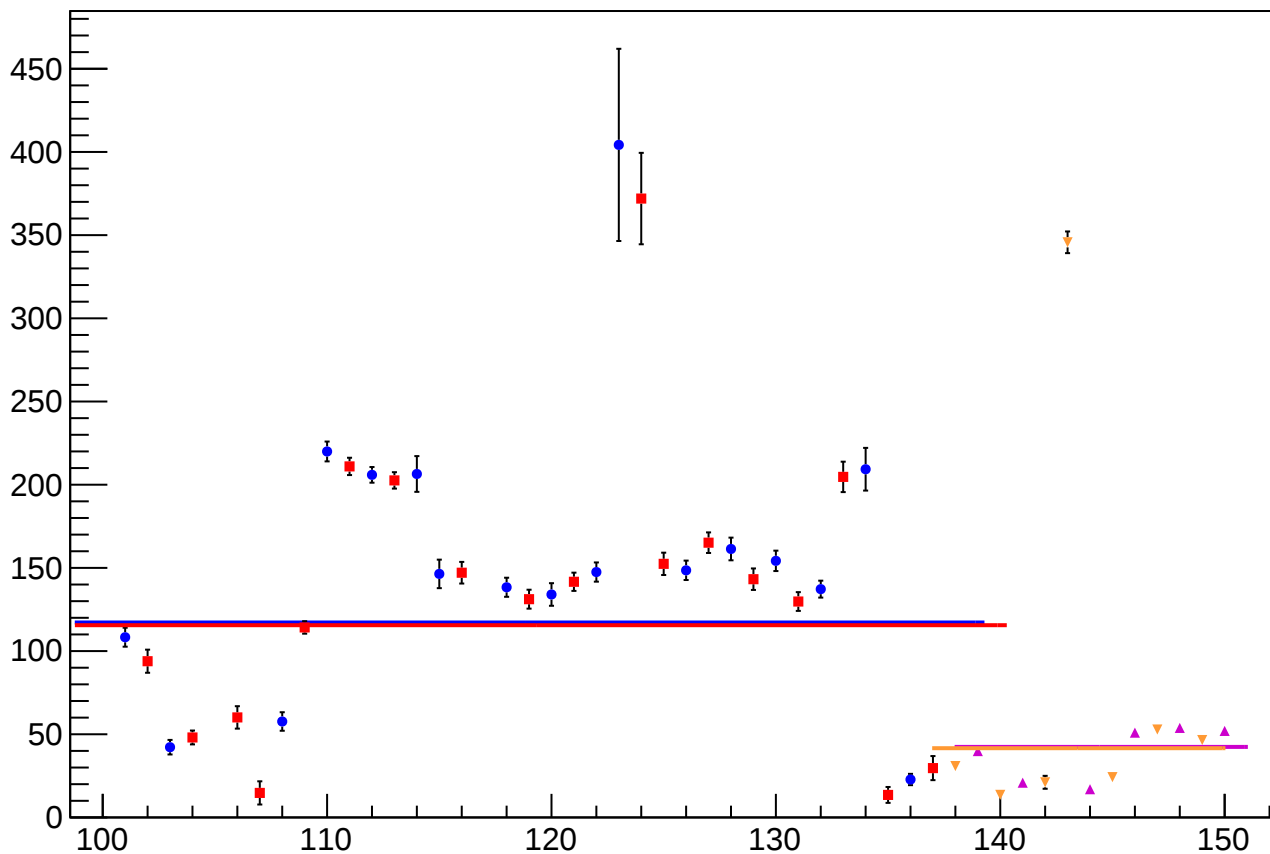
Right:  $-7.256 \pm 0.545$   $\chi^2/\text{NDF}$ : 531.2/34

In:  $-2.274 \pm 0.475$   $\chi^2/\text{NDF}$ : 390.9/22

Out:  $-2.964 \pm 0.492$   $\chi^2/\text{NDF}$ : 350.4/24

All:  $-2.607 \pm 0.341$   $\chi^2/\text{NDF}$ : 742.3/47

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 117.177+/-1.411  $\chi^2/\text{NDF}$ : 2159.6/16

Left Out: 41.626+/-0.958  $\chi^2/\text{NDF}$ :2452.0/6

Right Out: 115.556+/-1.363  $\chi^2/\text{NDF}$ : 2149.2/17

Left In: 42.406+/-0.897  $\chi^2/\text{NDF}$ :236.7/5

Left: 42.041+/-0.655  $\chi^2/\text{NDF}$ : 2689.1/12

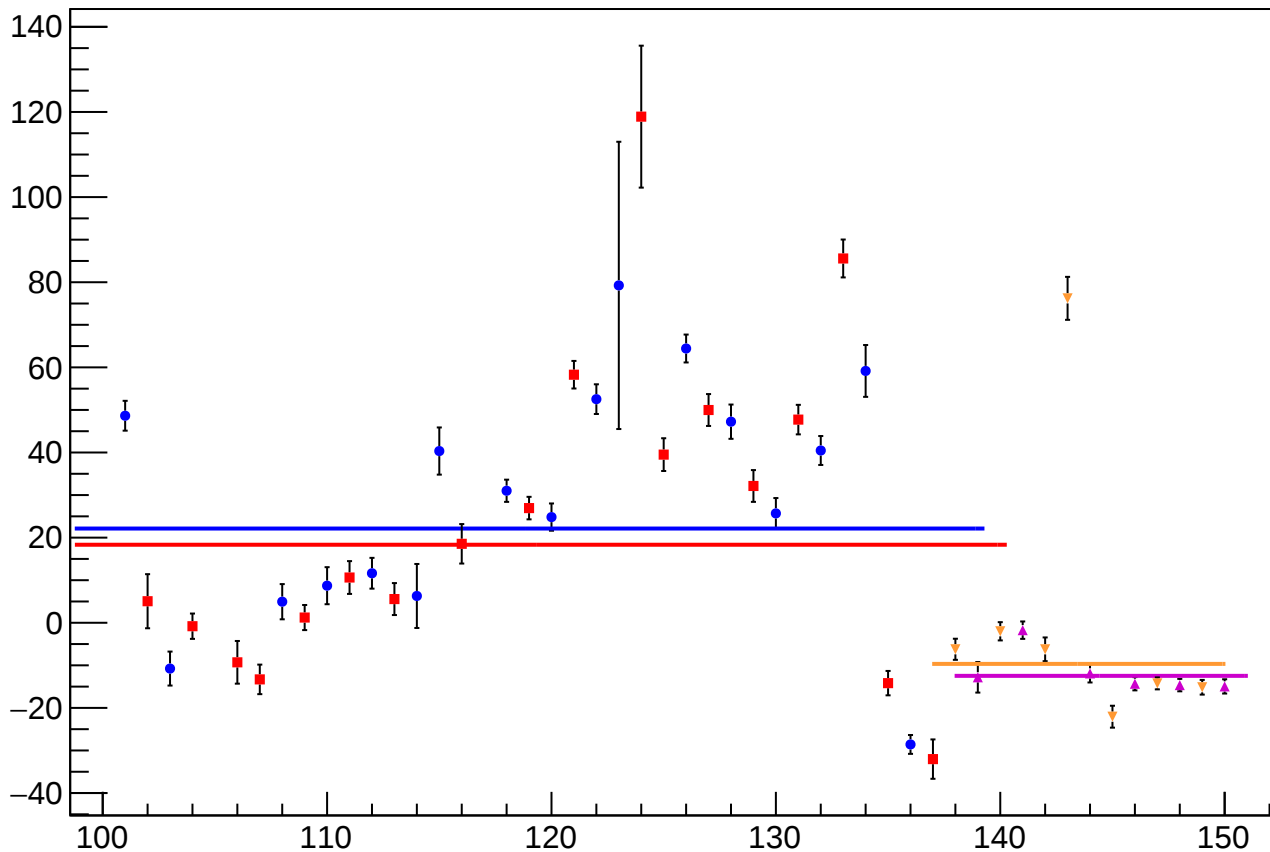
Right: 116.338+/-0.981  $\chi^2/\text{NDF}$ : 4309.5/34

In: 63.922+/-0.757  $\chi^2/\text{NDF}$ :4395.3/22

Out: 66.062+/-0.784  $\chi^2/\text{NDF}$ :6570.4/24

All: 64.955+/-0.545  $\chi^2/\text{NDF}$ : 10969.6/47

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:  $-9.663 \pm 0.805$   $\chi^2/\text{NDF}: 349.6/6$

Right Out:  $18.331 \pm 0.872$   $\chi^2/\text{NDF}: 1070.4/17$

Left In:  $-12.470 \pm 0.751$   $\chi^2/\text{NDF}: 33.4/5$

Left:  $-11.165 \pm 0.549$   $\chi^2/\text{NDF}: 389.6/12$

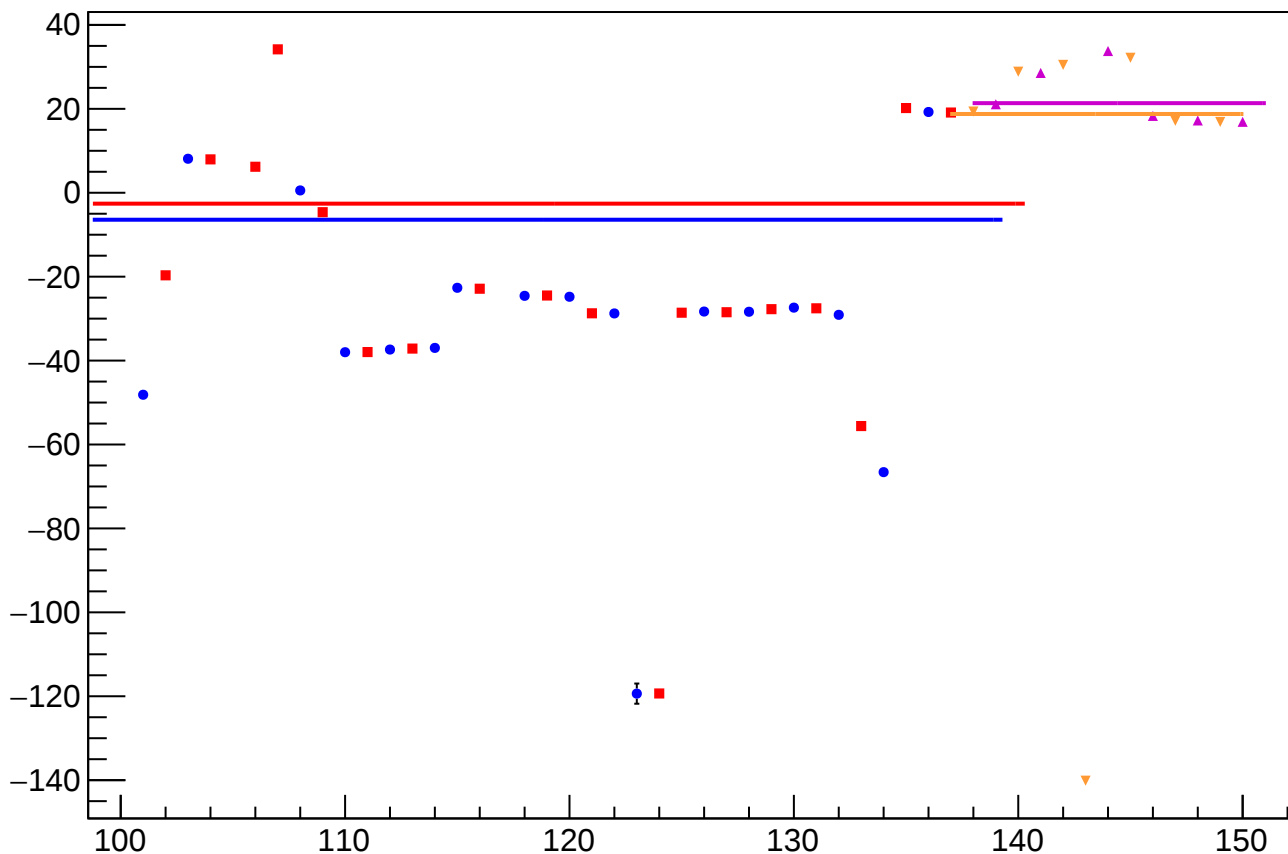
Right:  $20.192 \pm 0.623$   $\chi^2/\text{NDF}: 2143.8/34$

In:  $1.895 \pm 0.574$   $\chi^2/\text{NDF}: 1979.6/22$

Out:  $3.222 \pm 0.592$   $\chi^2/\text{NDF}: 1976.2/24$

All:  $2.538 \pm 0.412$   $\chi^2/\text{NDF}: 3958.4/47$

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -6.428+/-0.046  $\chi^2/\text{NDF}$ : 265170.6/16

Left Out: 18.773+/-0.041  $\chi^2/\text{NDF}$ :398954.7/6

Right Out: -2.597+/-0.046  $\chi^2/\text{NDF}$ : 263579.4/17

Left In: 21.356+/-0.037  $\chi^2/\text{NDF}$ :22374.5/5

Left: 20.178+/-0.027  $\chi^2/\text{NDF}$ : 423536.7/12

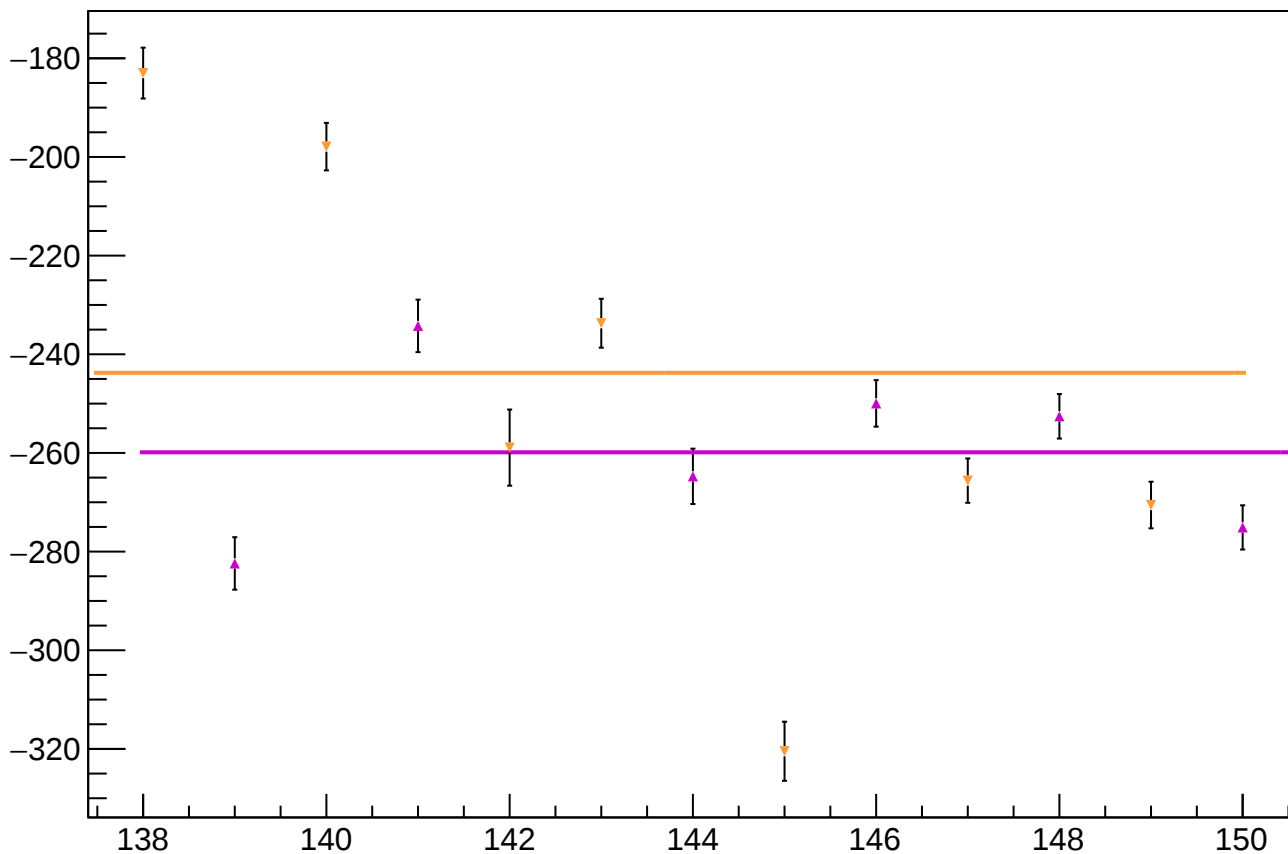
Right: -4.494+/-0.033  $\chi^2/\text{NDF}$ : 532217.8/34

In: 10.457+/-0.029  $\chi^2/\text{NDF}$ :507214.2/22

Out: 9.374+/-0.030  $\chi^2/\text{NDF}$ :784625.0/24

All: 9.941+/-0.021  $\chi^2/\text{NDF}$ : 1292506.1/47

reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -243.753+/-1.960  $\chi^2/\text{NDF}$ :457.5/6

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

Left In: -259.872+/-2.015  $\chi^2/\text{NDF}$ :60.4/5

Left: -251.587+/-1.405  $\chi^2/\text{NDF}$ : 550.8/12

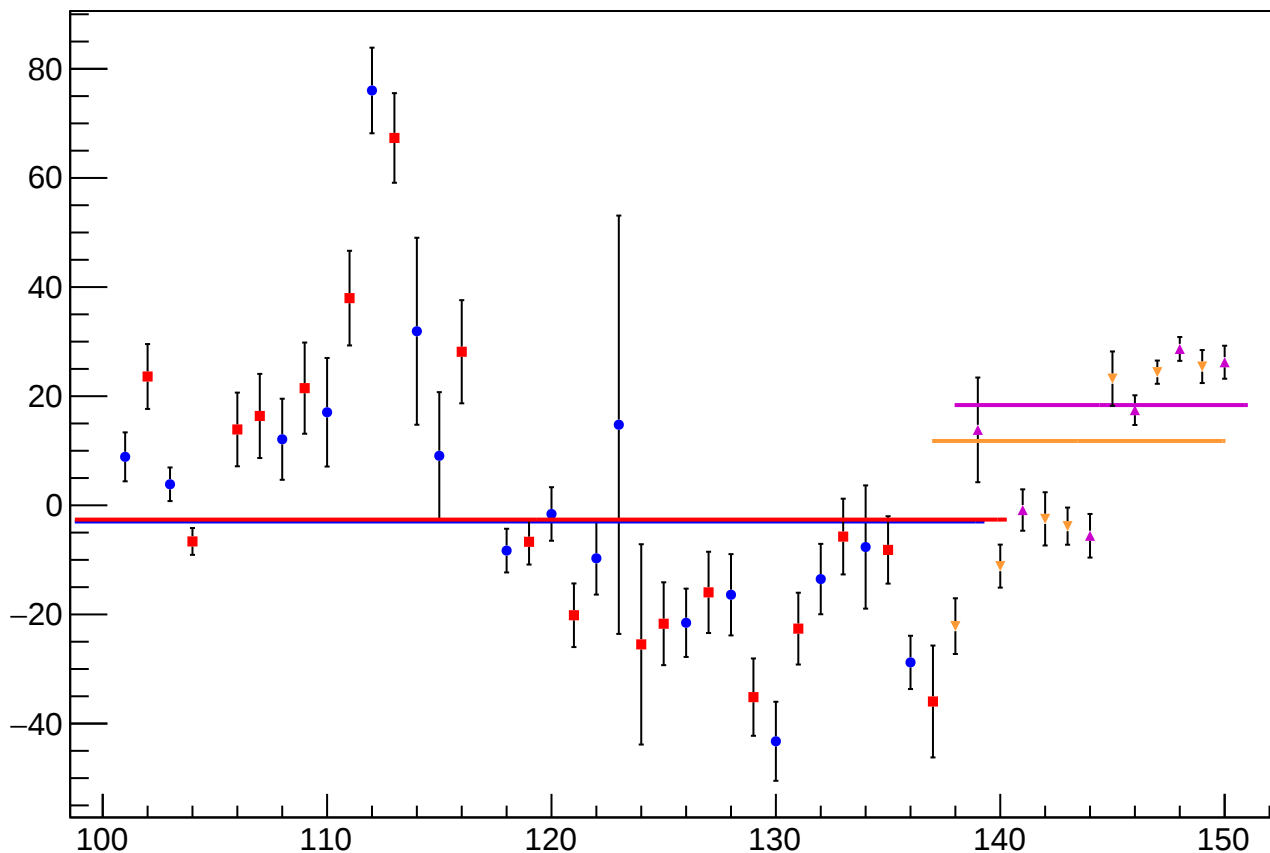
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -259.872+/-2.015  $\chi^2/\text{NDF}$ :60.4/5

Out: -243.753+/-1.960  $\chi^2/\text{NDF}$ :457.5/6

All: -251.587+/-1.405  $\chi^2/\text{NDF}$ : 550.8/12

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:  $11.796 \pm 1.290$   $\chi^2/\text{NDF}: 168.3/6$

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}: 210.5/17$

Left In:  $18.373 \pm 1.294$   $\chi^2/\text{NDF}: 90.9/5$

Left:  $15.074 \pm 0.914$   $\chi^2/\text{NDF}: 272.2/12$

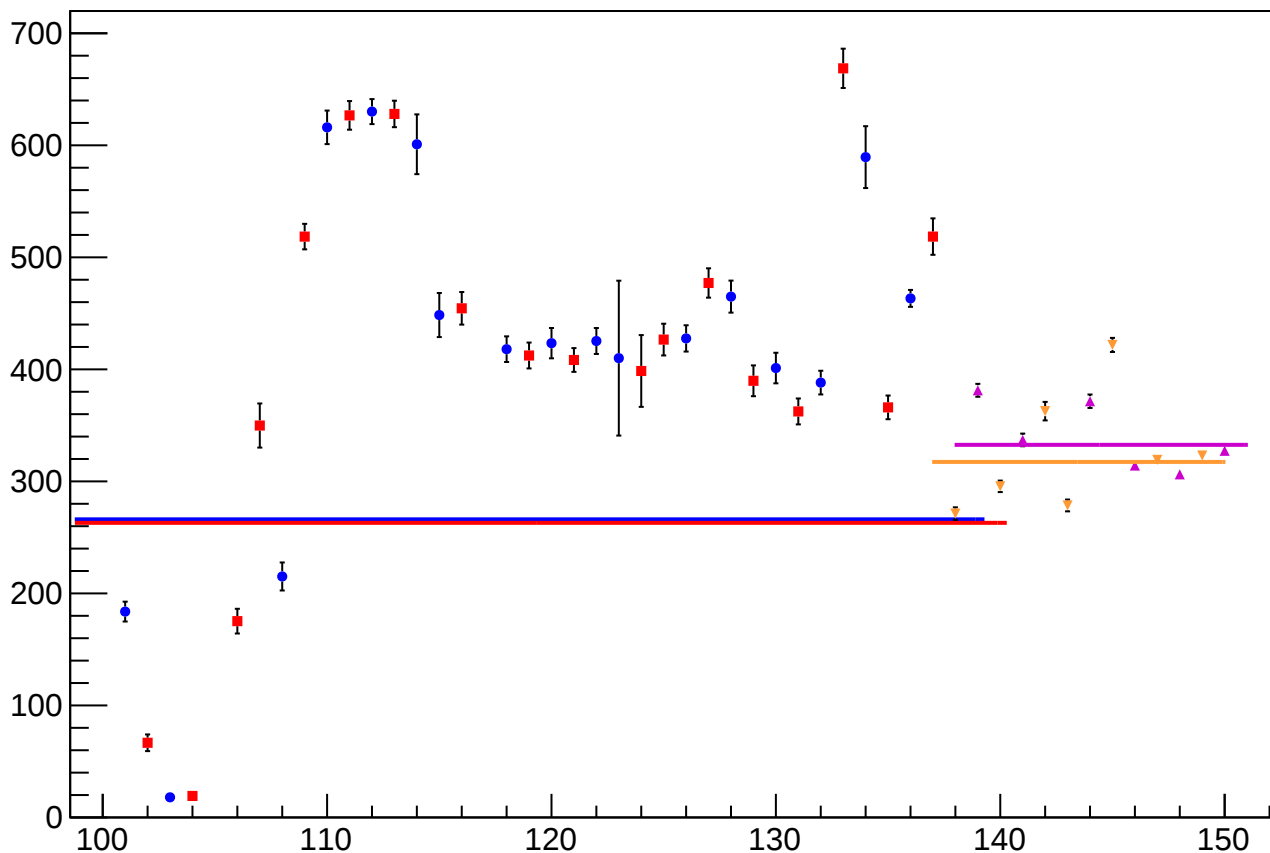
Right:  $-2.783 \pm 1.008$   $\chi^2/\text{NDF}: 414.0/34$

In:  $8.929 \pm 0.966$   $\chi^2/\text{NDF}: 414.8/22$

Out:  $5.173 \pm 0.948$   $\chi^2/\text{NDF}: 436.2/24$

All:  $7.016 \pm 0.677$   $\chi^2/\text{NDF}: 858.6/47$

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: 317.380 $\pm$ 1.985  $\chi^2$ /NDF:447.5/6

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

Left In: 332.614 $\pm$ 1.995  $\chi^2$ /NDF:171.3/5

Left: 324.959 $\pm$ 1.407  $\chi^2$ /NDF: 648.1/12

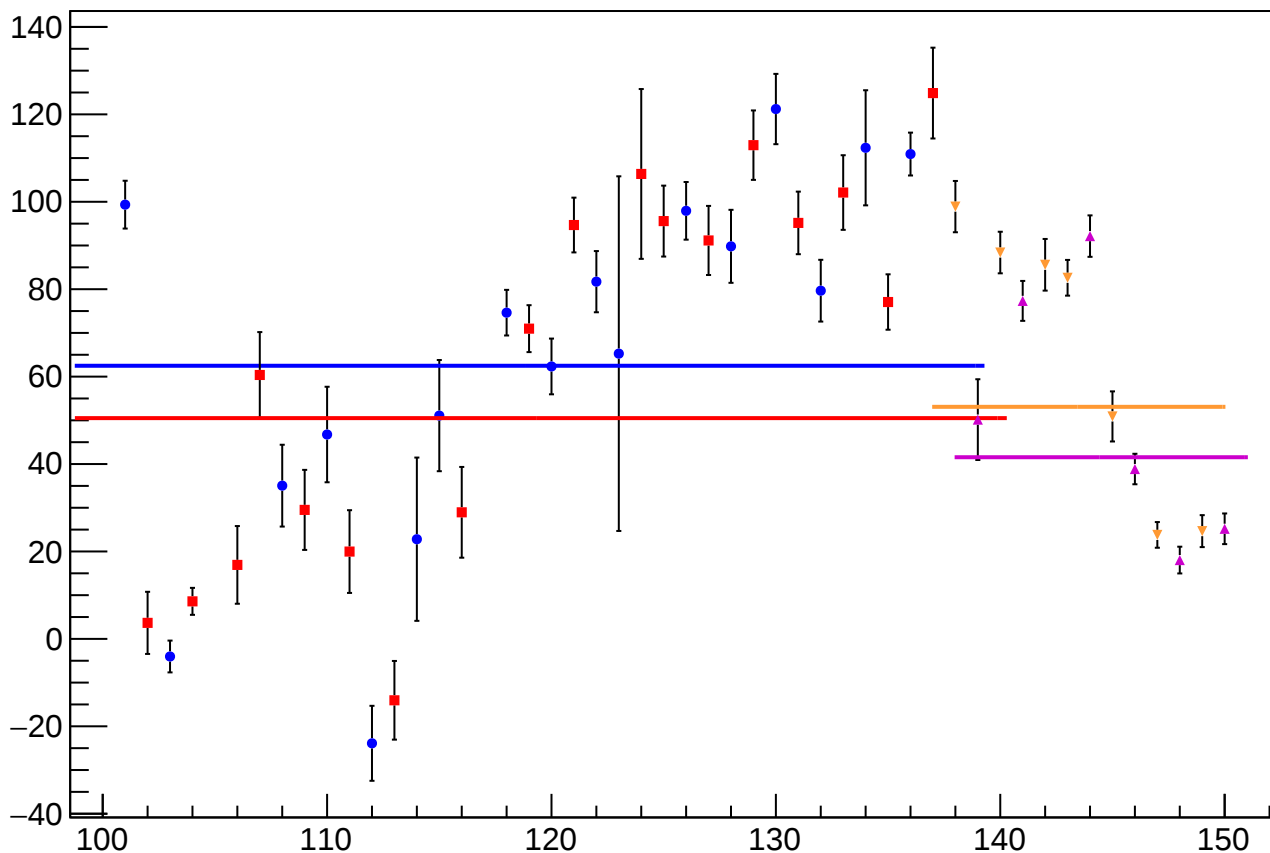
Right: 264.548 $\pm$ 1.749  $\chi^2$ /NDF: 15816.8/34

In: 306.487 $\pm$ 1.555  $\chi^2$ /NDF:8251.8/22

Out: 296.004 $\pm$ 1.546  $\chi^2$ /NDF:8914.5/24

All: 301.218 $\pm$ 1.096  $\chi^2$ /NDF: 17189.1/47

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 62.485 $\pm$ 1.681  $\chi^2$ /NDF: 720.8/16

Left Out: 53.090 $\pm$ 1.616  $\chi^2$ /NDF:358.5/6

Right Out: 50.506 $\pm$ 1.644  $\chi^2$ /NDF: 650.6/17

Left In: 41.559 $\pm$ 1.634  $\chi^2$ /NDF:257.6/5

Left: 47.388 $\pm$ 1.149  $\chi^2$ /NDF: 641.3/12

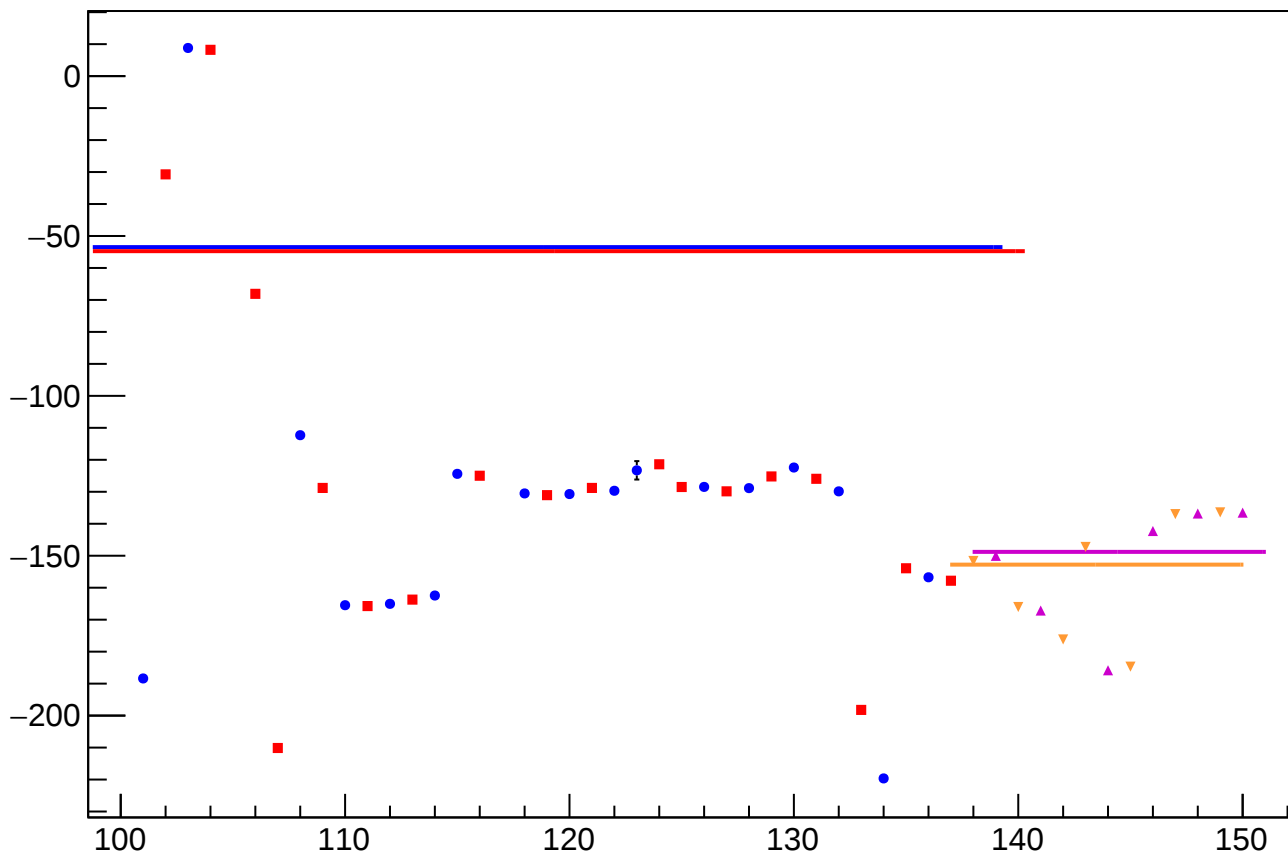
Right: 56.364 $\pm$ 1.175  $\chi^2$ /NDF: 1397.3/34

In: 51.726 $\pm$ 1.172  $\chi^2$ /NDF:1058.0/22

Out: 51.820 $\pm$ 1.153  $\chi^2$ /NDF:1010.4/24

All: 51.774 $\pm$ 0.822  $\chi^2$ /NDF: 2068.4/47

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -53.481 $\pm$ 0.070  $\chi^2$ /NDF: 1228730.5/16

Left Out: -152.785 $\pm$ 0.084  $\chi^2$ /NDF: 39271.1/6

Right Out: -54.748 $\pm$ 0.072  $\chi^2$ /NDF: 952446.3/17

Left In: -148.795 $\pm$ 0.083  $\chi^2$ /NDF: 36559.3/5

Left: -150.764 $\pm$ 0.059  $\chi^2$ /NDF: 76960.7/12

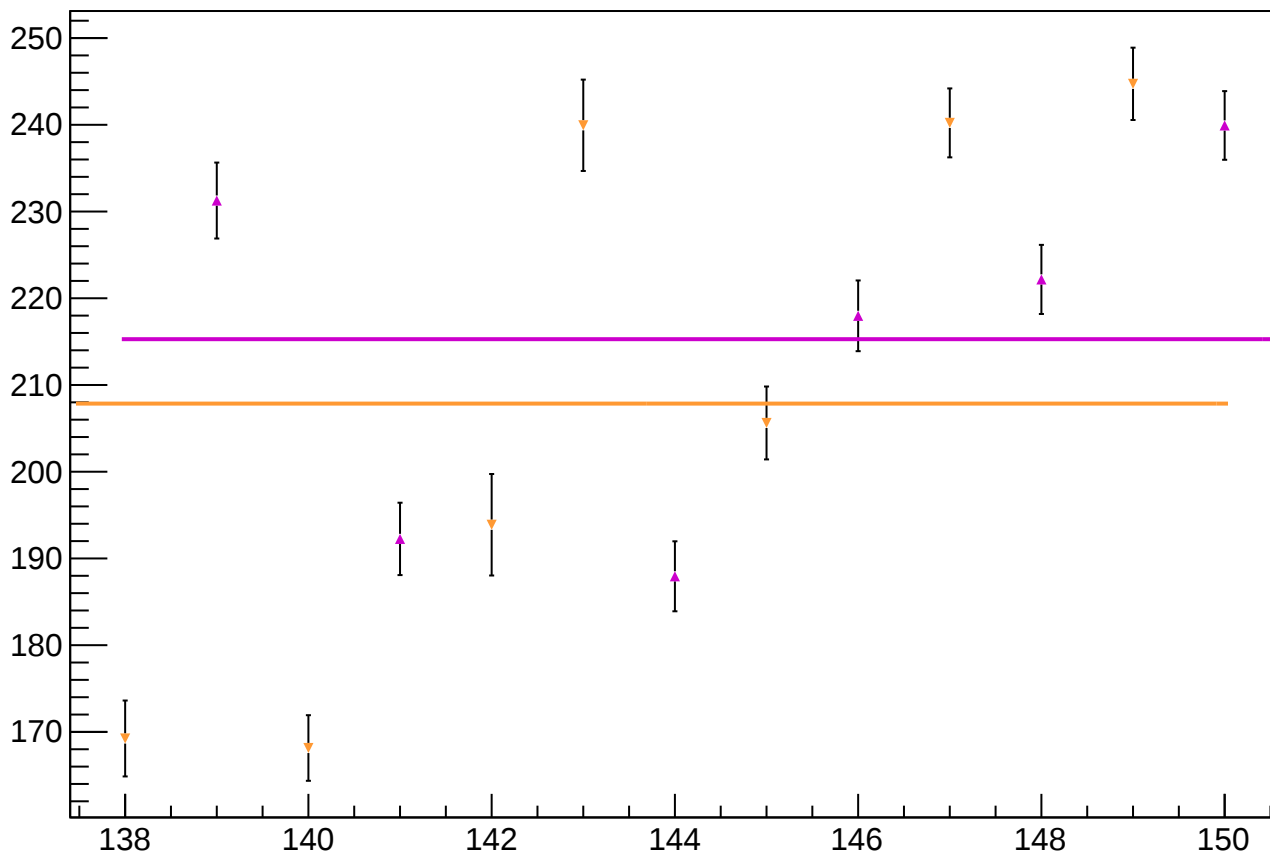
Right: -54.098 $\pm$ 0.050  $\chi^2$ /NDF: 2181335.1/34

In: -93.096 $\pm$ 0.054  $\chi^2$ /NDF: 2029103.7/22

Out: -96.101 $\pm$ 0.055  $\chi^2$ /NDF: 1770892.6/24

All: -94.568 $\pm$ 0.038  $\chi^2$ /NDF: 3801527.9/47

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: 207.855+/-1.656  $\chi^2/\text{NDF}$ :375.7/6

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

Left In: 215.282+/-1.671  $\chi^2/\text{NDF}$ :131.9/5

Left: 211.534+/-1.176  $\chi^2/\text{NDF}$ : 517.6/12

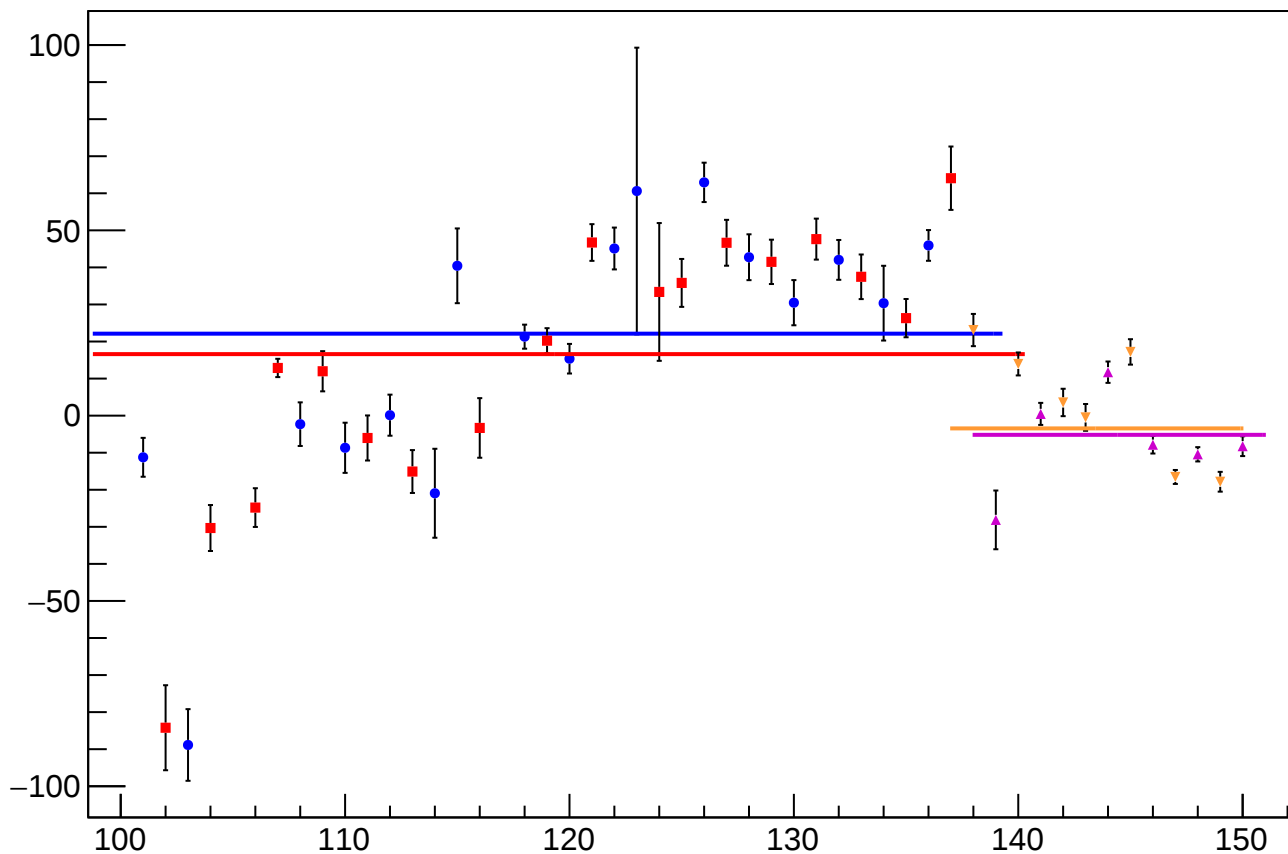
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 215.282+/-1.671  $\chi^2/\text{NDF}$ :131.9/5

Out: 207.855+/-1.656  $\chi^2/\text{NDF}$ :375.7/6

All: 211.534+/-1.176  $\chi^2/\text{NDF}$ : 517.6/12

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $22.119 \pm 1.376$   $\chi^2/\text{NDF}: 382.0/16$

Left Out:  $-3.443 \pm 1.109$   $\chi^2/\text{NDF}: 186.6/6$

Right Out:  $16.602 \pm 1.229$   $\chi^2/\text{NDF}: 416.8/17$

Left In:  $-5.179 \pm 1.095$   $\chi^2/\text{NDF}: 56.4/5$

Left:  $-4.322 \pm 0.779$   $\chi^2/\text{NDF}: 244.2/12$

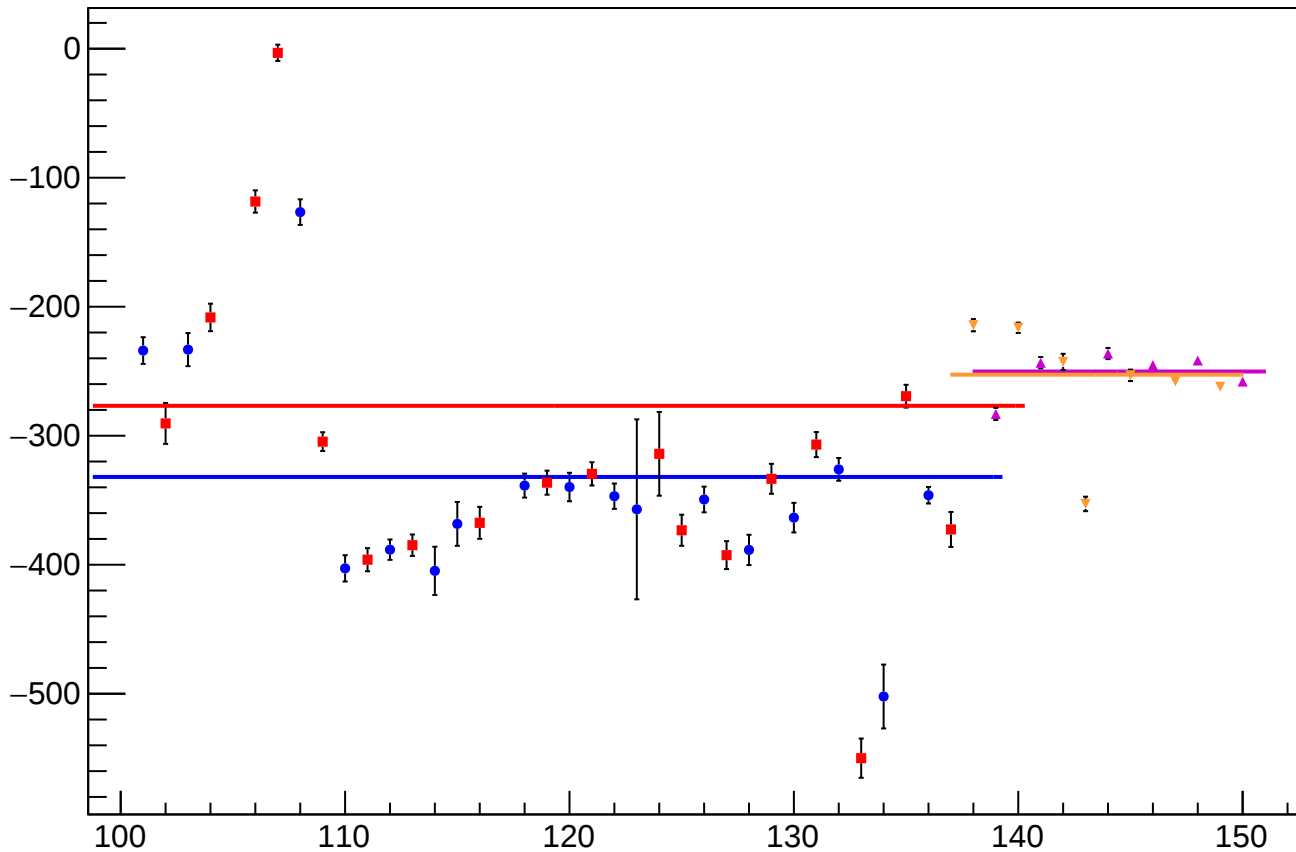
Right:  $19.049 \pm 0.917$   $\chi^2/\text{NDF}: 807.7/34$

In:  $5.398 \pm 0.857$   $\chi^2/\text{NDF}: 679.3/22$

Out:  $5.549 \pm 0.823$   $\chi^2/\text{NDF}: 750.1/24$

All:  $5.477 \pm 0.594$   $\chi^2/\text{NDF}: 1429.4/47$

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -331.952+/-2.567  $\chi^2/\text{NDF}$ : 785.6/16

Left Out: -252.673+/-1.685  $\chi^2/\text{NDF}$ : 475.4/6

Right Out: -276.804+/-2.329  $\chi^2/\text{NDF}$ : 3330.4/17

Left In: -250.222+/-1.668  $\chi^2/\text{NDF}$ : 72.2/5

Left: -251.435+/-1.185  $\chi^2/\text{NDF}$ : 548.8/12

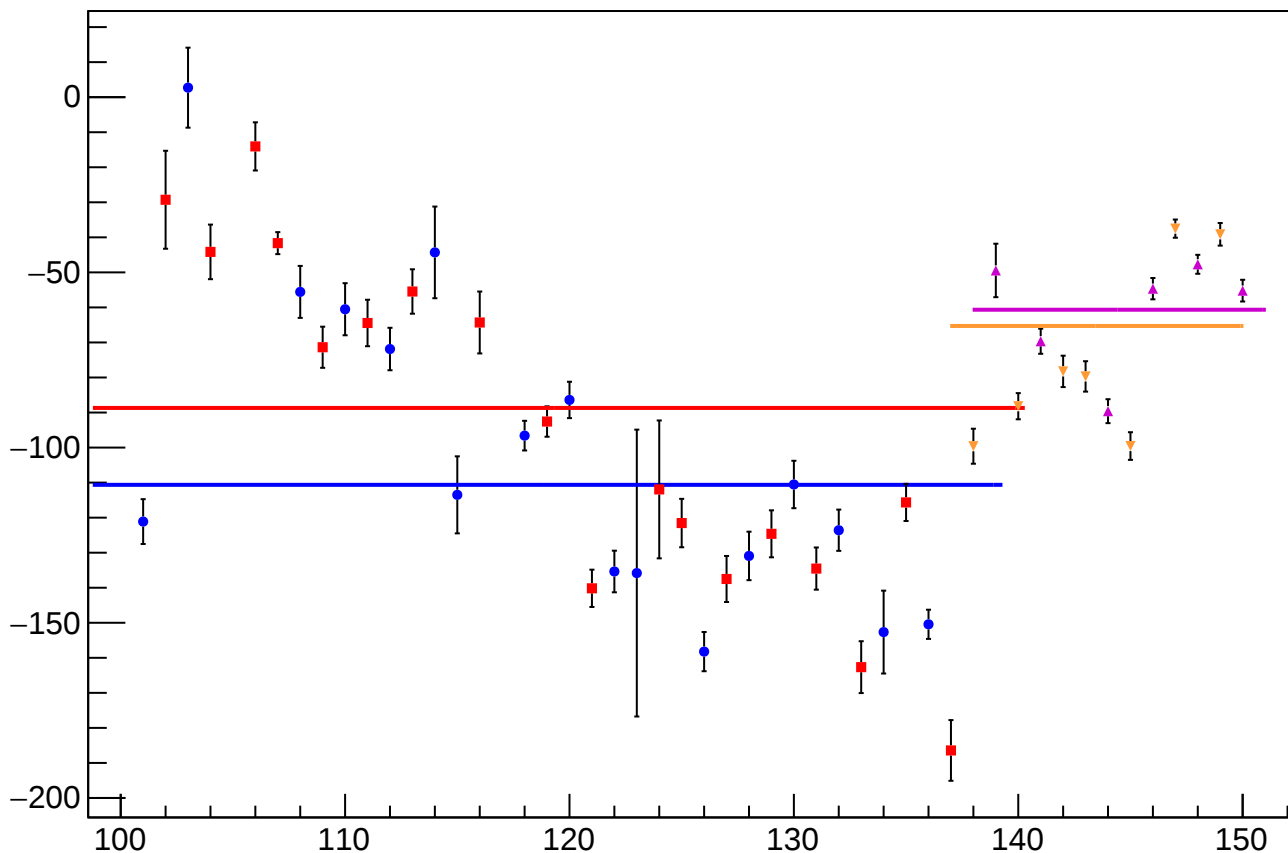
Right: -301.706+/-1.725  $\chi^2/\text{NDF}$ : 4369.1/34

In: -274.475+/-1.399  $\chi^2/\text{NDF}$ : 1570.6/22

Out: -260.964+/-1.365  $\chi^2/\text{NDF}$ : 3876.3/24

All: -267.558+/-0.977  $\chi^2/\text{NDF}$ : 5494.6/47

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:  $-65.291 \pm 1.383$   $\chi^2/\text{NDF}: 359.5/6$

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}: 964.0/17$

Left In:  $-60.657 \pm 1.373$   $\chi^2/\text{NDF}: 110.4/5$

Left:  $-62.958 \pm 0.974$   $\chi^2/\text{NDF}: 475.5/12$

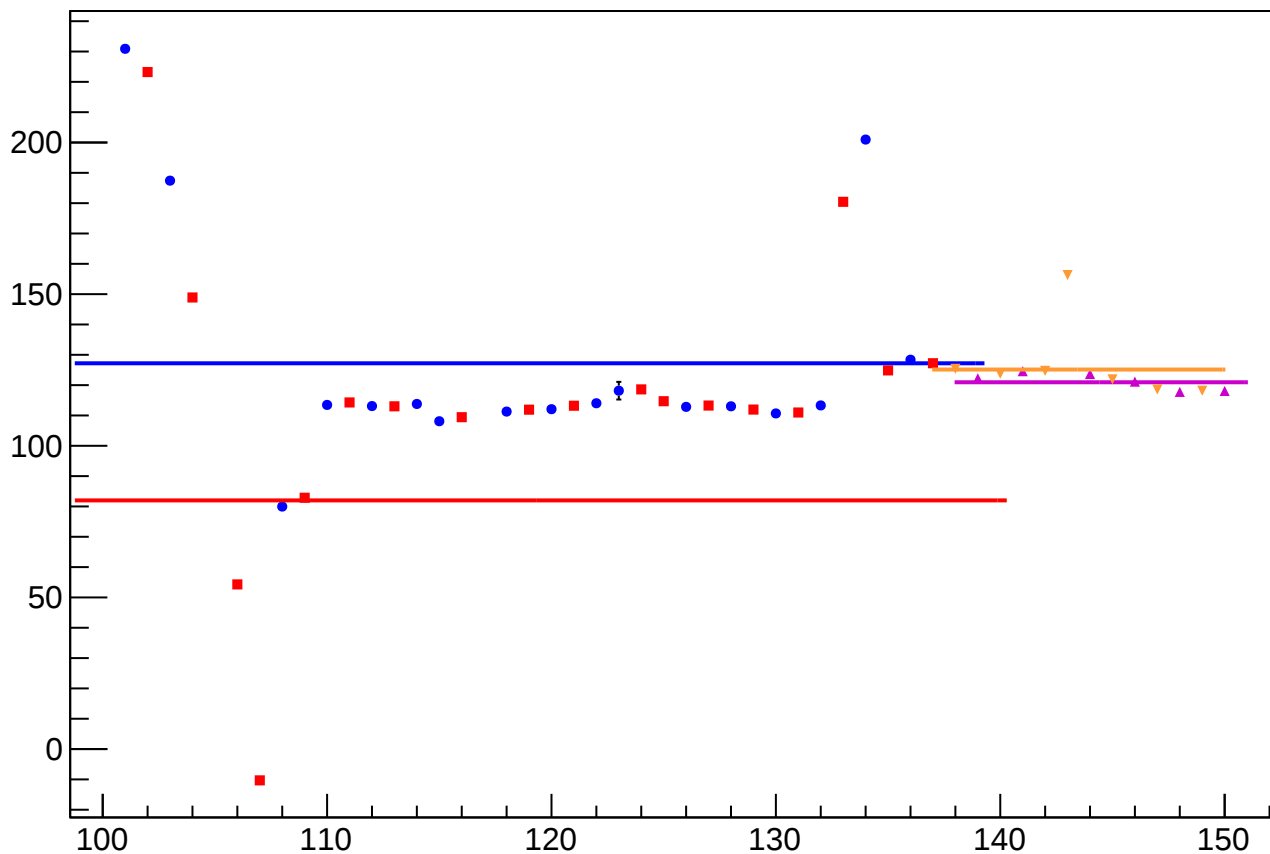
Right:  $-98.593 \pm 1.062$   $\chi^2/\text{NDF}: 1578.5/34$

In:  $-82.150 \pm 1.037$   $\chi^2/\text{NDF}: 1188.6/22$

Out:  $-76.558 \pm 0.996$   $\chi^2/\text{NDF}: 1461.3/24$

All:  $-79.240 \pm 0.718$   $\chi^2/\text{NDF}: 2665.1/47$

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 125.143 $\pm$ 0.071  $\chi^2$ /NDF:22470.2/6

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

Left In: 120.947 $\pm$ 0.070  $\chi^2$ /NDF:1422.8/5

Left: 122.991 $\pm$ 0.050  $\chi^2$ /NDF: 25662.7/12

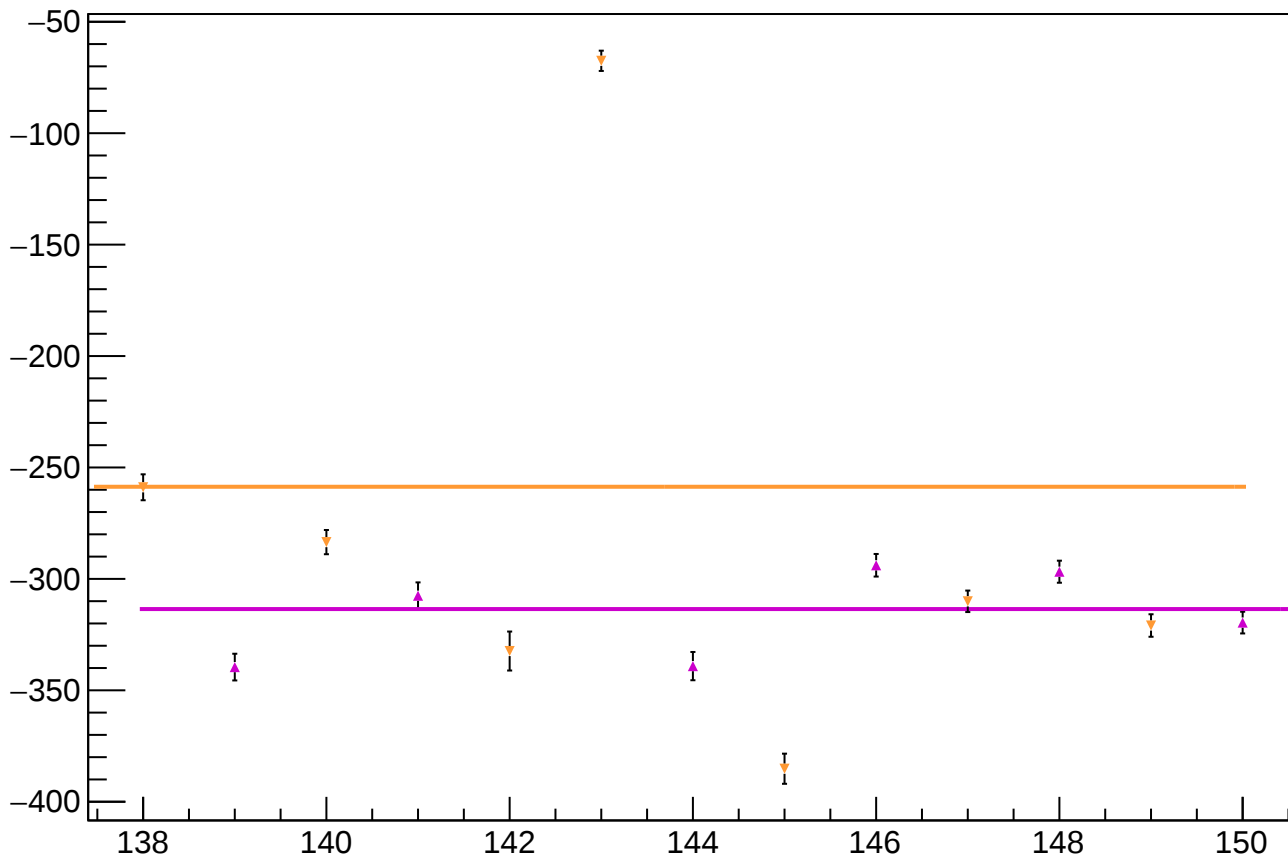
Right: 100.877 $\pm$ 0.058  $\chi^2$ /NDF: 1087676.4/34

In: 123.318 $\pm$ 0.055  $\chi^2$ /NDF:192510.3/22

Out: 104.762 $\pm$ 0.052  $\chi^2$ /NDF:944706.9/24

All: 113.521 $\pm$ 0.038  $\chi^2$ /NDF: 1197610.3/47

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out:  $-258.652 \pm 2.090$   $\chi^2/\text{NDF}$ : 2472.8/6

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

Left In:  $-313.536 \pm 2.222$   $\chi^2/\text{NDF}$ : 64.2/5

Left:  $-284.416 \pm 1.523$   $\chi^2/\text{NDF}$ : 2860.7/12

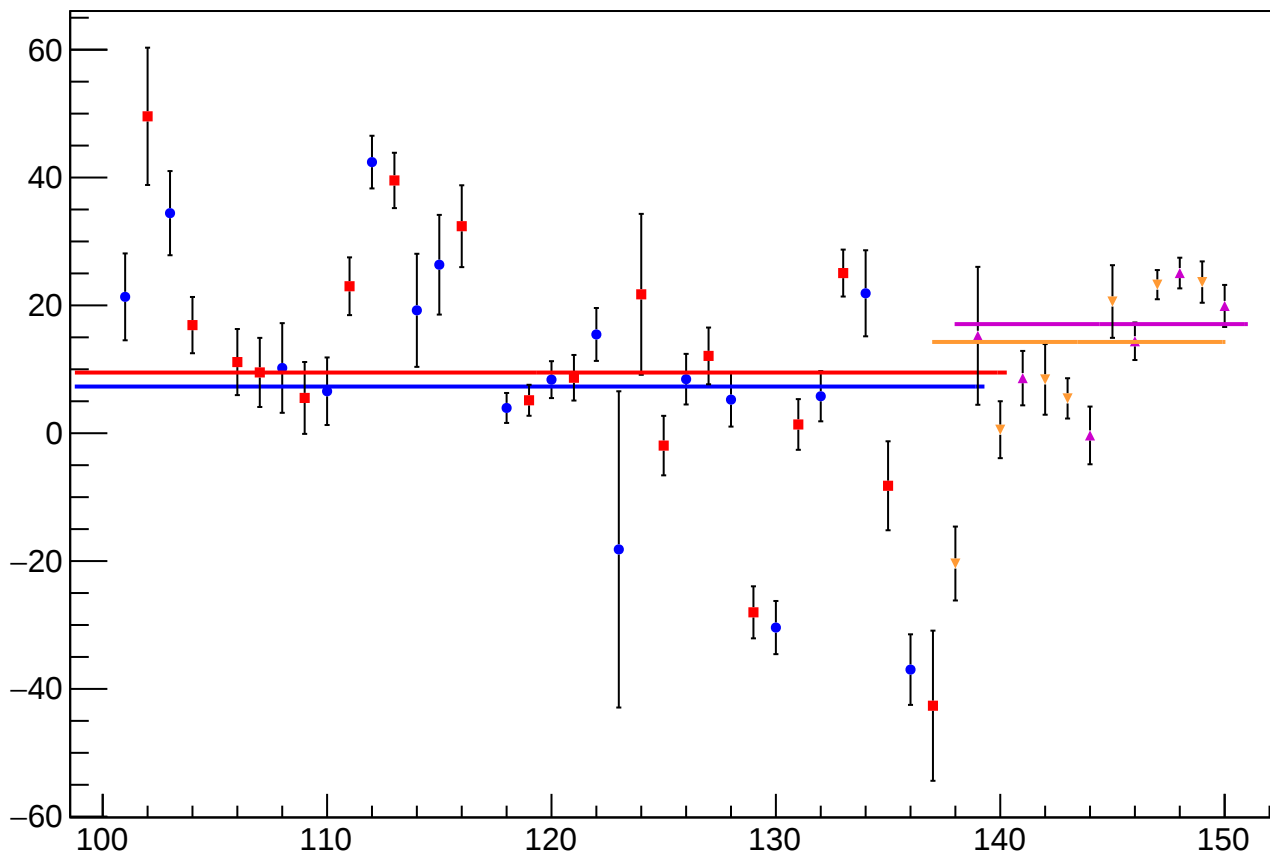
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-313.536 \pm 2.222$   $\chi^2/\text{NDF}$ : 64.2/5

Out:  $-258.652 \pm 2.090$   $\chi^2/\text{NDF}$ : 2472.8/6

All:  $-284.416 \pm 1.523$   $\chi^2/\text{NDF}$ : 2860.7/12

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.303 $\pm$ 1.086  $\chi^2/\text{NDF}$ : 260.6/16

Left Out: 14.279 $\pm$ 1.371  $\chi^2/\text{NDF}$ : 79.4/6

Right Out: 9.493 $\pm$ 1.073  $\chi^2/\text{NDF}$ : 231.1/17

Left In: 17.070 $\pm$ 1.422  $\chi^2/\text{NDF}$ : 31.5/5

Left: 15.624 $\pm$ 0.987  $\chi^2/\text{NDF}$ : 112.9/12

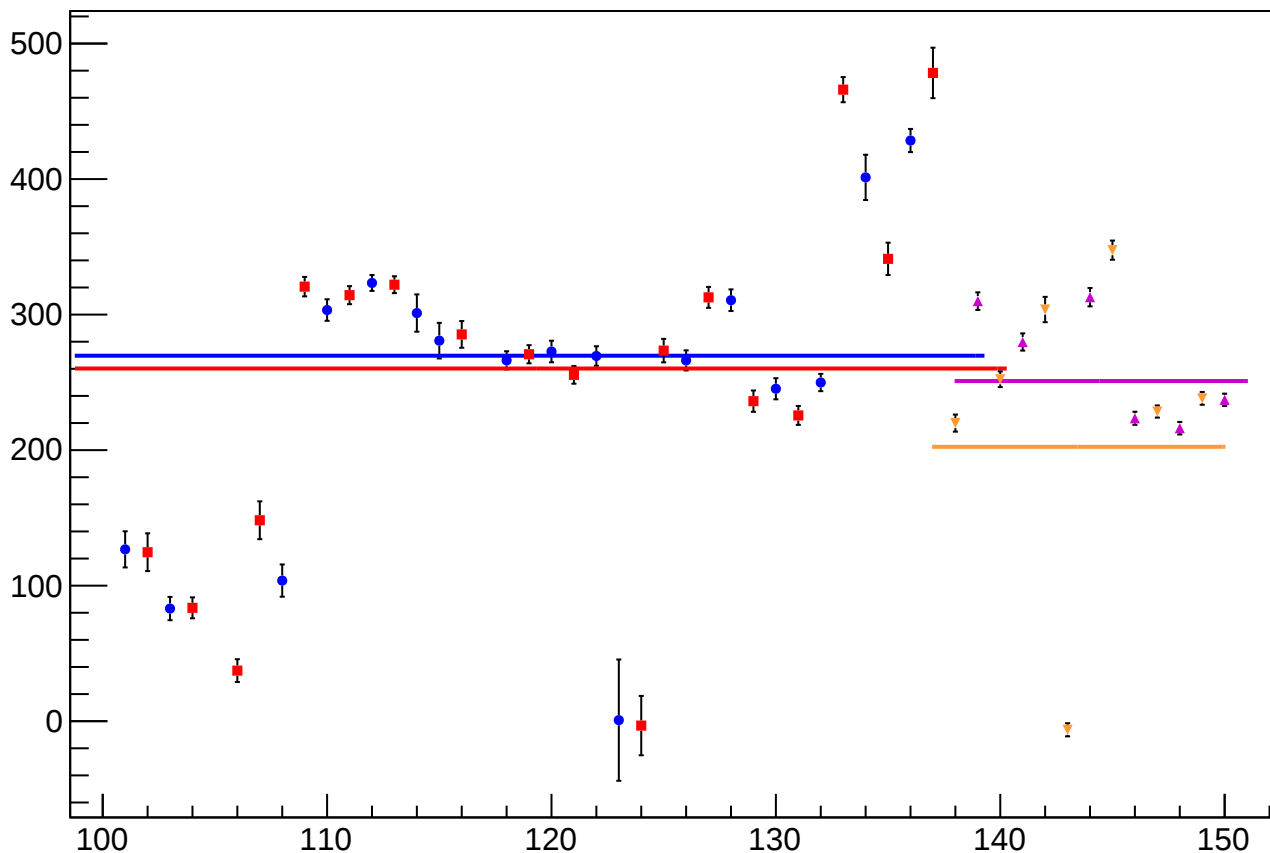
Right: 8.410 $\pm$ 0.763  $\chi^2/\text{NDF}$ : 493.8/34

In: 10.901 $\pm$ 0.863  $\chi^2/\text{NDF}$ : 322.0/22

Out: 11.310 $\pm$ 0.845  $\chi^2/\text{NDF}$ : 318.1/24

All: 11.110 $\pm$ 0.604  $\chi^2/\text{NDF}$ : 640.2/47

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: 202.452 $\pm$ 2.117  $\chi^2$ /NDF:2560.6/6

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

Left In: 250.990 $\pm$ 2.196  $\chi^2$ /NDF:284.1/5

Left: 225.843 $\pm$ 1.524  $\chi^2$ /NDF: 3097.9/12

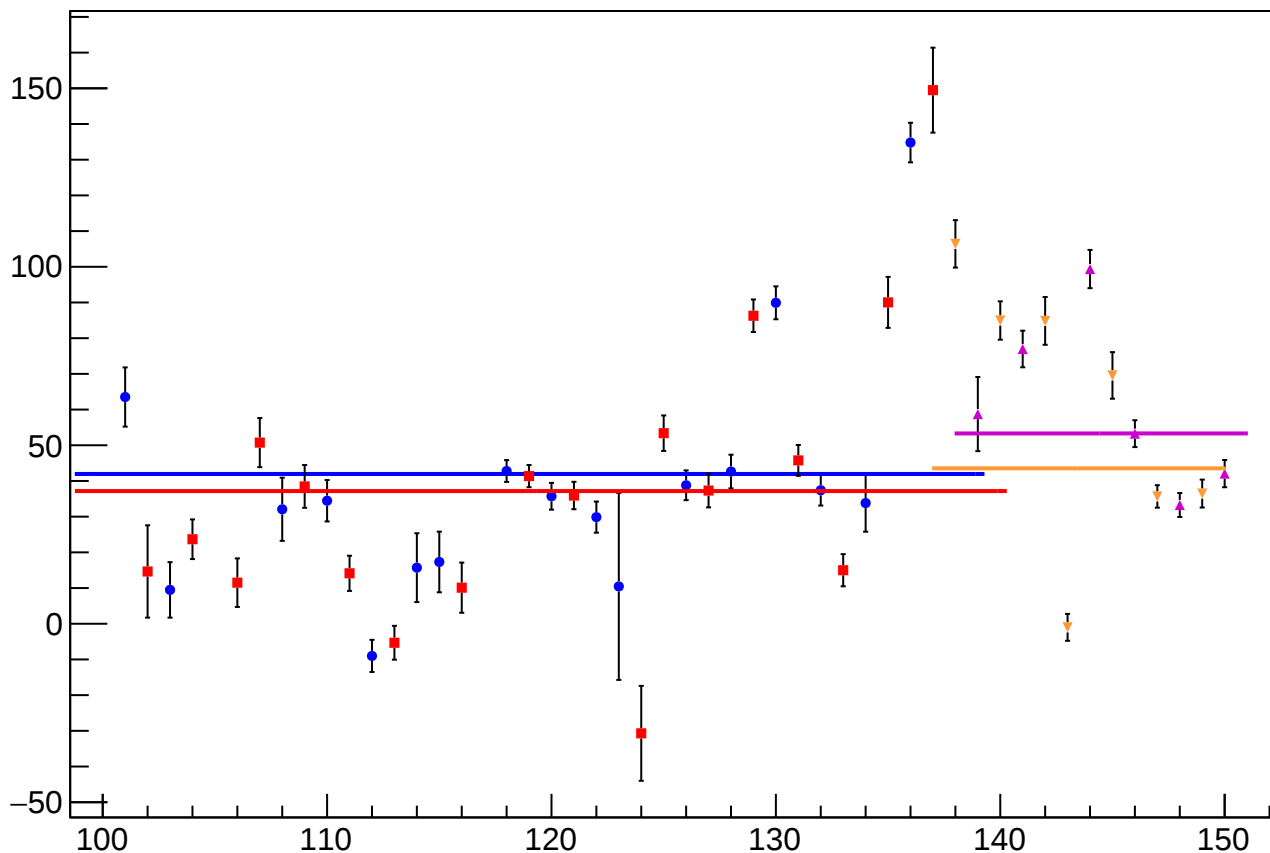
Right: 264.719 $\pm$ 1.432  $\chi^2$ /NDF: 3915.4/34

In: 260.849 $\pm$ 1.508  $\chi^2$ /NDF:1698.9/22

Out: 233.293 $\pm$ 1.446  $\chi^2$ /NDF:5486.0/24

All: 246.486 $\pm$ 1.044  $\chi^2$ /NDF: 7358.8/47

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 41.959 $\pm$ 1.258  $\chi^2$ /NDF: 574.2/16

Left Out: 43.536 $\pm$ 1.716  $\chi^2$ /NDF: 352.1/6

Right Out: 37.171 $\pm$ 1.236  $\chi^2$ /NDF: 470.9/17

Left In: 53.315 $\pm$ 1.795  $\chi^2$ /NDF: 139.9/5

Left: 48.203 $\pm$ 1.240  $\chi^2$ /NDF: 507.5/12

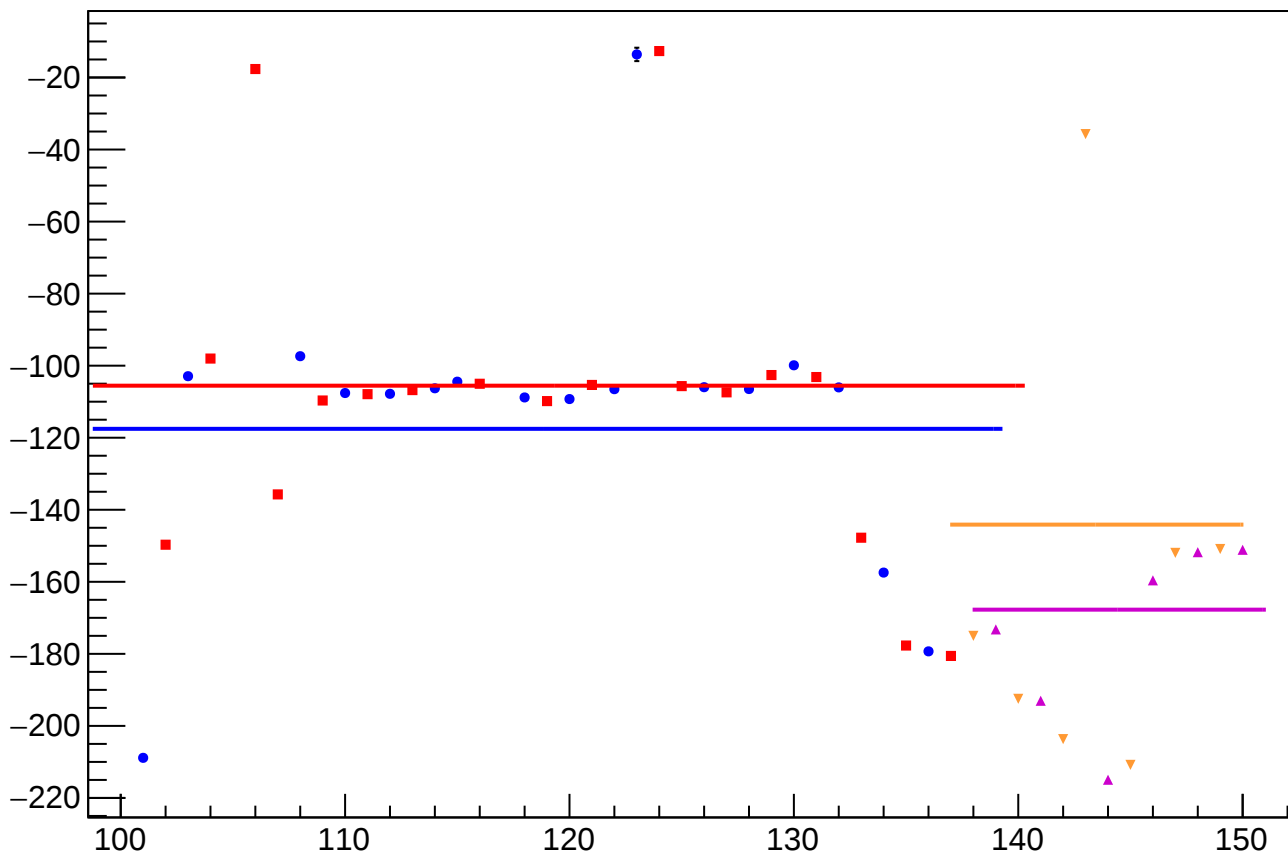
Right: 39.523 $\pm$ 0.882  $\chi^2$ /NDF: 1052.5/34

In: 45.699 $\pm$ 1.030  $\chi^2$ /NDF: 741.0/22

Out: 39.346 $\pm$ 1.003  $\chi^2$ /NDF: 832.1/24

All: 42.437 $\pm$ 0.719  $\chi^2$ /NDF: 1592.6/47

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -117.533+/-0.078  $\chi^2/\text{NDF}$ : 142039.8/16

Left Out: -144.124+/-0.090  $\chi^2/\text{NDF}$ : 445388.0/6

Right Out: -105.555+/-0.073  $\chi^2/\text{NDF}$ : 317428.5/17

Left In: -167.732+/-0.092  $\chi^2/\text{NDF}$ : 50826.7/5

Left: -155.665+/-0.064  $\chi^2/\text{NDF}$ : 529928.6/12

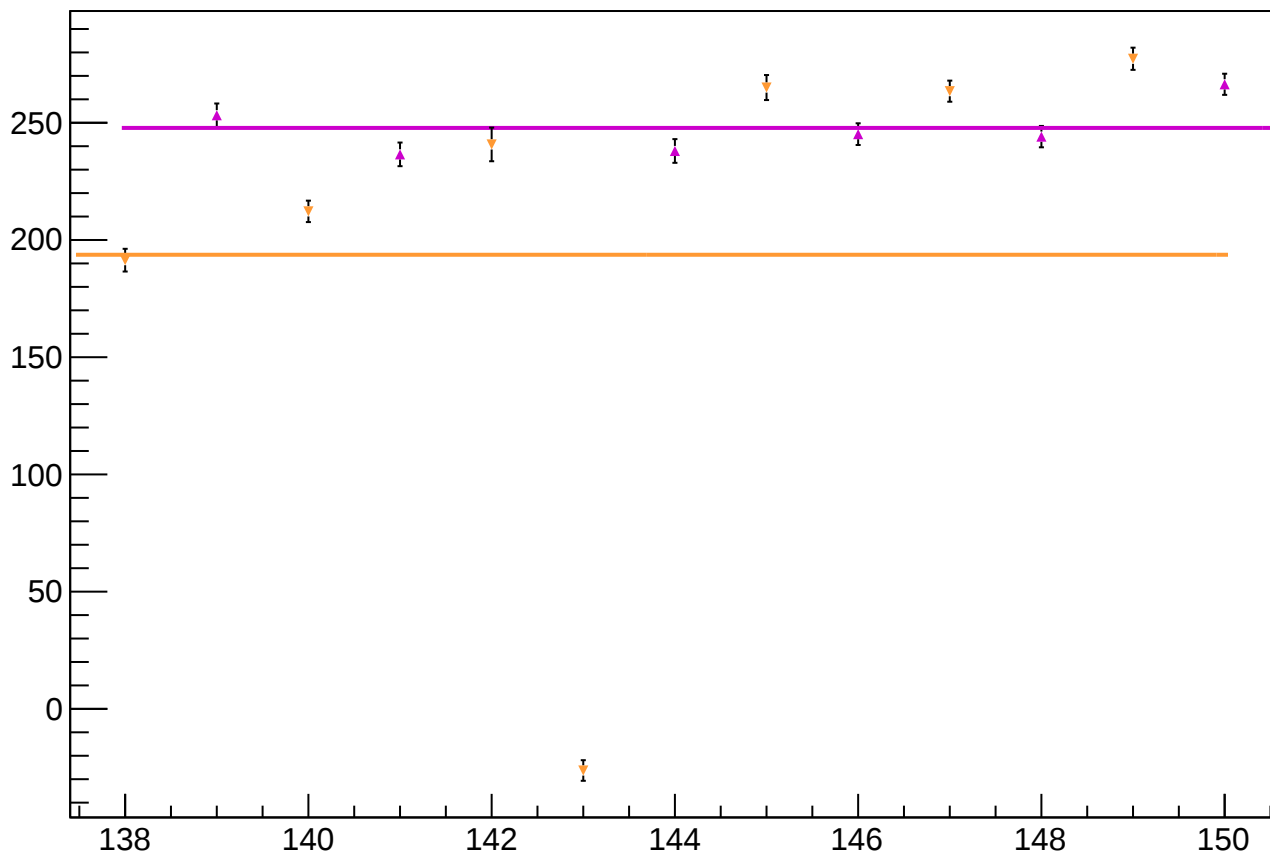
Right: -111.128+/-0.053  $\chi^2/\text{NDF}$ : 472040.3/34

In: -138.587+/-0.060  $\chi^2/\text{NDF}$ : 366023.7/22

Out: -120.849+/-0.057  $\chi^2/\text{NDF}$ : 873900.6/24

All: -129.272+/-0.041  $\chi^2/\text{NDF}$ : 1286547.7/47

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: 193.700+/-1.854  $\chi^2/\text{NDF}$ : 3296.3/6

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

Left In: 247.804+/-1.952  $\chi^2/\text{NDF}$ : 28.0/5

Left: 219.361+/-1.344  $\chi^2/\text{NDF}$ : 3728.1/12

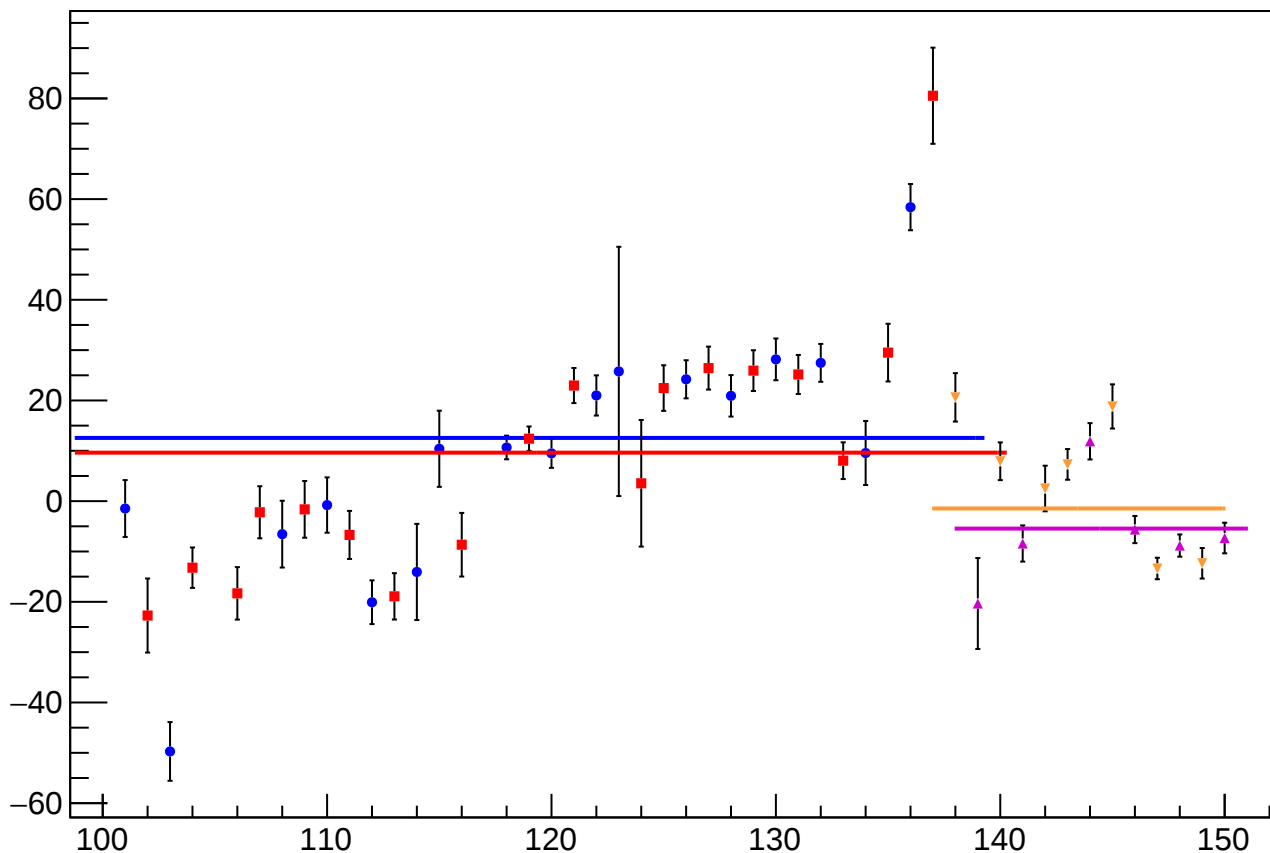
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 247.804+/-1.952  $\chi^2/\text{NDF}$ : 28.0/5

Out: 193.700+/-1.854  $\chi^2/\text{NDF}$ : 3296.3/6

All: 219.361+/-1.344  $\chi^2/\text{NDF}$ : 3728.1/12

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.559 $\pm$ 1.057  $\chi^2$ /NDF: 348.6/16

Left Out: -1.455 $\pm$ 1.239  $\chi^2$ /NDF:101.9/6

Right Out: 9.631 $\pm$ 1.049  $\chi^2$ /NDF: 287.5/17

Left In: -5.452 $\pm$ 1.273  $\chi^2$ /NDF:29.2/5

Left: -3.399 $\pm$ 0.888  $\chi^2$ /NDF: 136.1/12

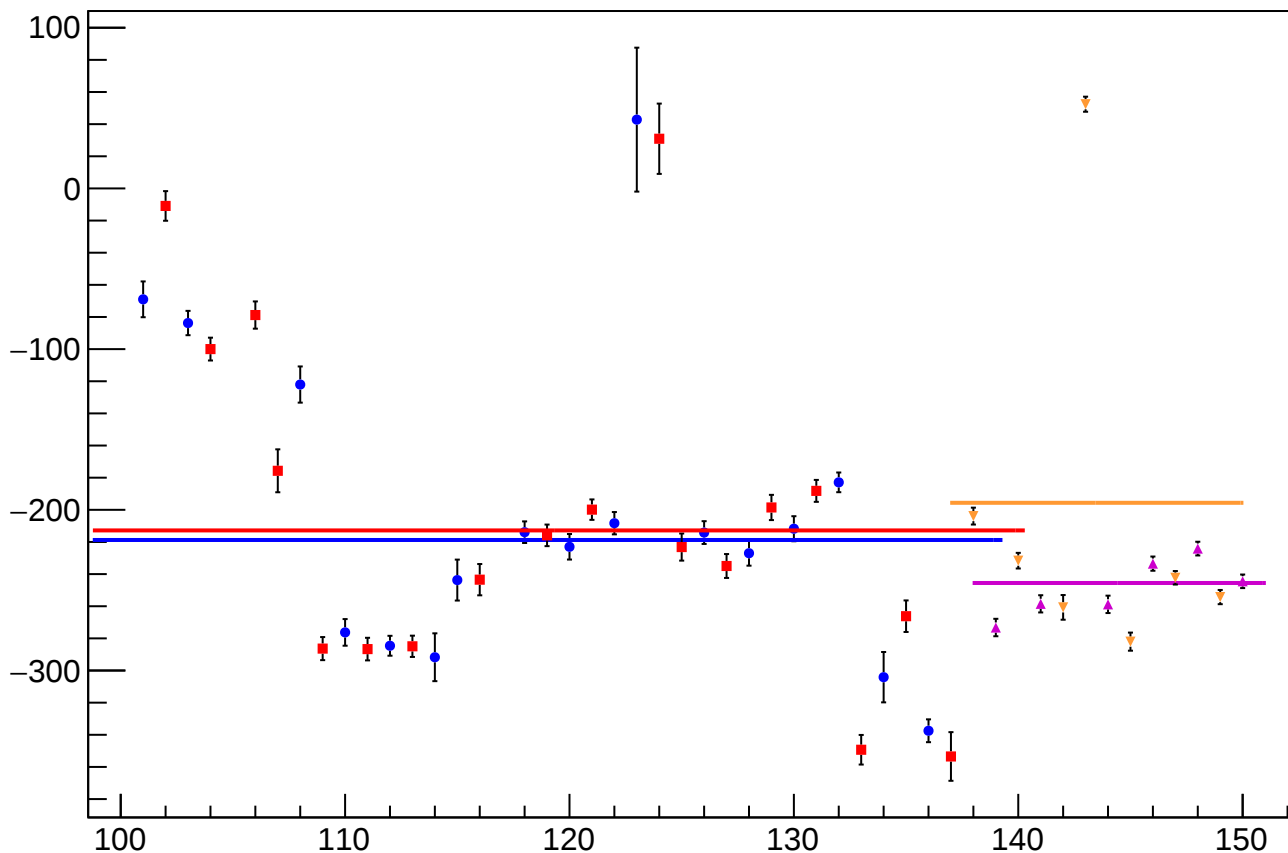
Right: 11.084 $\pm$ 0.745  $\chi^2$ /NDF: 639.9/34

In: 5.206 $\pm$ 0.813  $\chi^2$ /NDF:496.2/22

Out: 5.000 $\pm$ 0.801  $\chi^2$ /NDF:435.9/24

All: 5.102 $\pm$ 0.571  $\chi^2$ /NDF: 932.2/47

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:  $-195.632 \pm 1.889$   $\chi^2/\text{NDF}: 3462.4/6$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

Left In:  $-245.528 \pm 1.942$   $\chi^2/\text{NDF}: 70.6/5$

Left:  $-219.897 \pm 1.354$   $\chi^2/\text{NDF}: 3872.2/12$

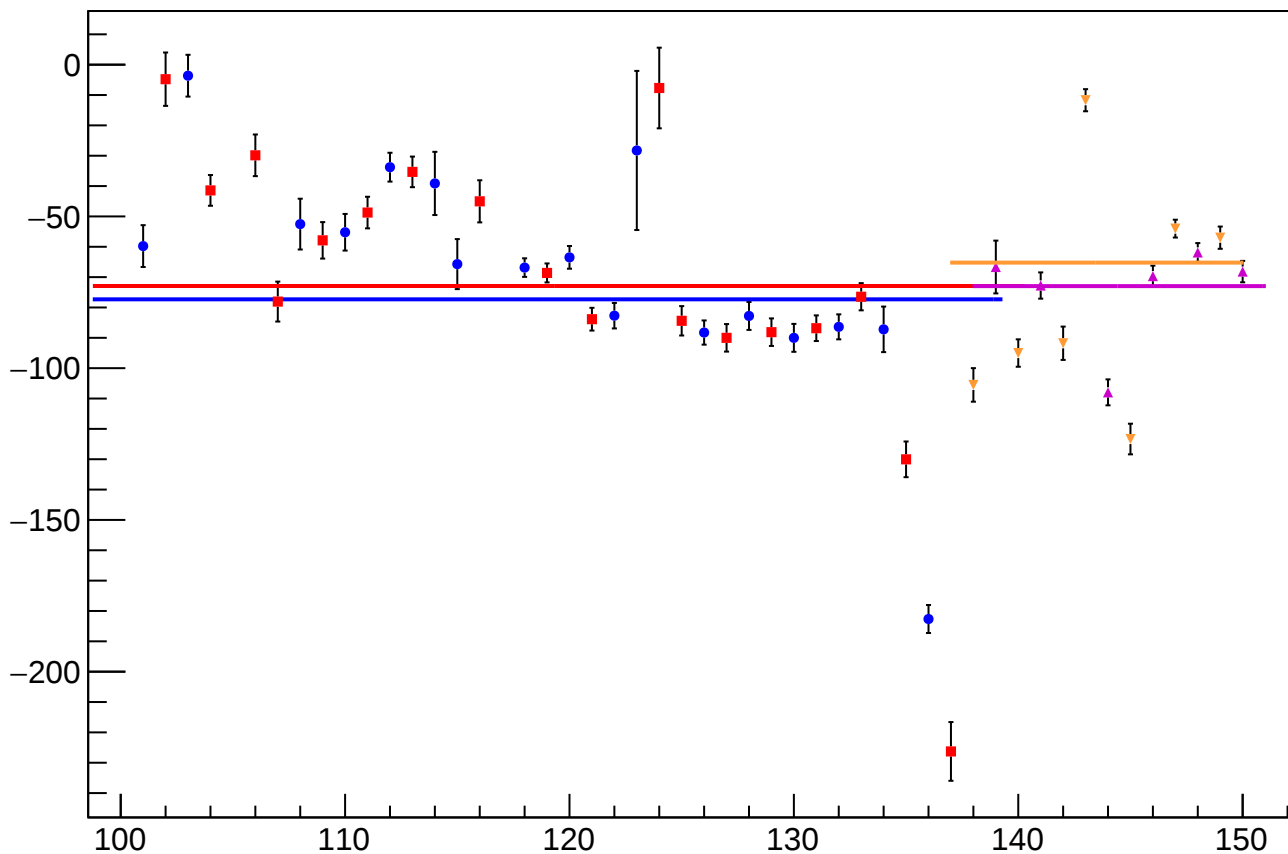
Right:  $-215.666 \pm 1.391$   $\chi^2/\text{NDF}: 2973.5/34$

In:  $-232.612 \pm 1.397$   $\chi^2/\text{NDF}: 1306.7/22$

Out:  $-204.058 \pm 1.349$   $\chi^2/\text{NDF}: 5327.5/24$

All:  $-217.838 \pm 0.970$   $\chi^2/\text{NDF}: 6850.4/47$

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:  $-65.215 \pm 1.544$   $\chi^2/\text{NDF}$ : 487.9/6

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

Left In:  $-72.960 \pm 1.601$   $\chi^2/\text{NDF}$ : 83.1/5

Left:  $-68.947 \pm 1.111$   $\chi^2/\text{NDF}$ : 583.2/12

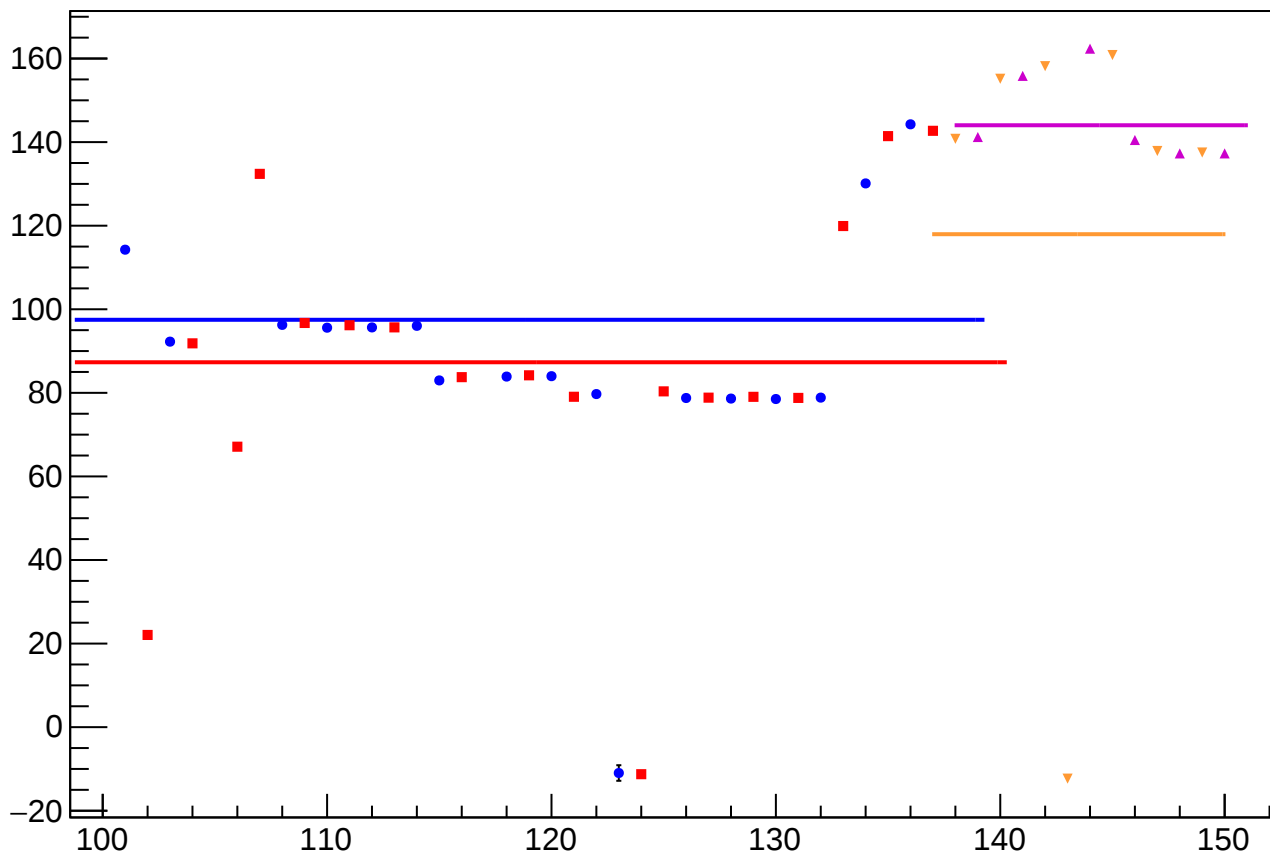
Right:  $-75.095 \pm 0.859$   $\chi^2/\text{NDF}$ : 1485.1/34

In:  $-75.714 \pm 0.971$   $\chi^2/\text{NDF}$ : 905.5/22

Out:  $-69.996 \pm 0.951$   $\chi^2/\text{NDF}$ : 1164.2/24

All:  $-72.795 \pm 0.680$   $\chi^2/\text{NDF}$ : 2087.4/47

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 97.483+/-0.073  $\chi^2/\text{NDF}$ : 94392.9/16

Left Out: 117.963+/-0.080  $\chi^2/\text{NDF}$ : 596469.9/6

Right Out: 87.318+/-0.068  $\chi^2/\text{NDF}$ : 221863.6/17

Left In: 144.034+/-0.081  $\chi^2/\text{NDF}$ : 12306.8/5

Left: 130.817+/-0.057  $\chi^2/\text{NDF}$ : 661307.5/12

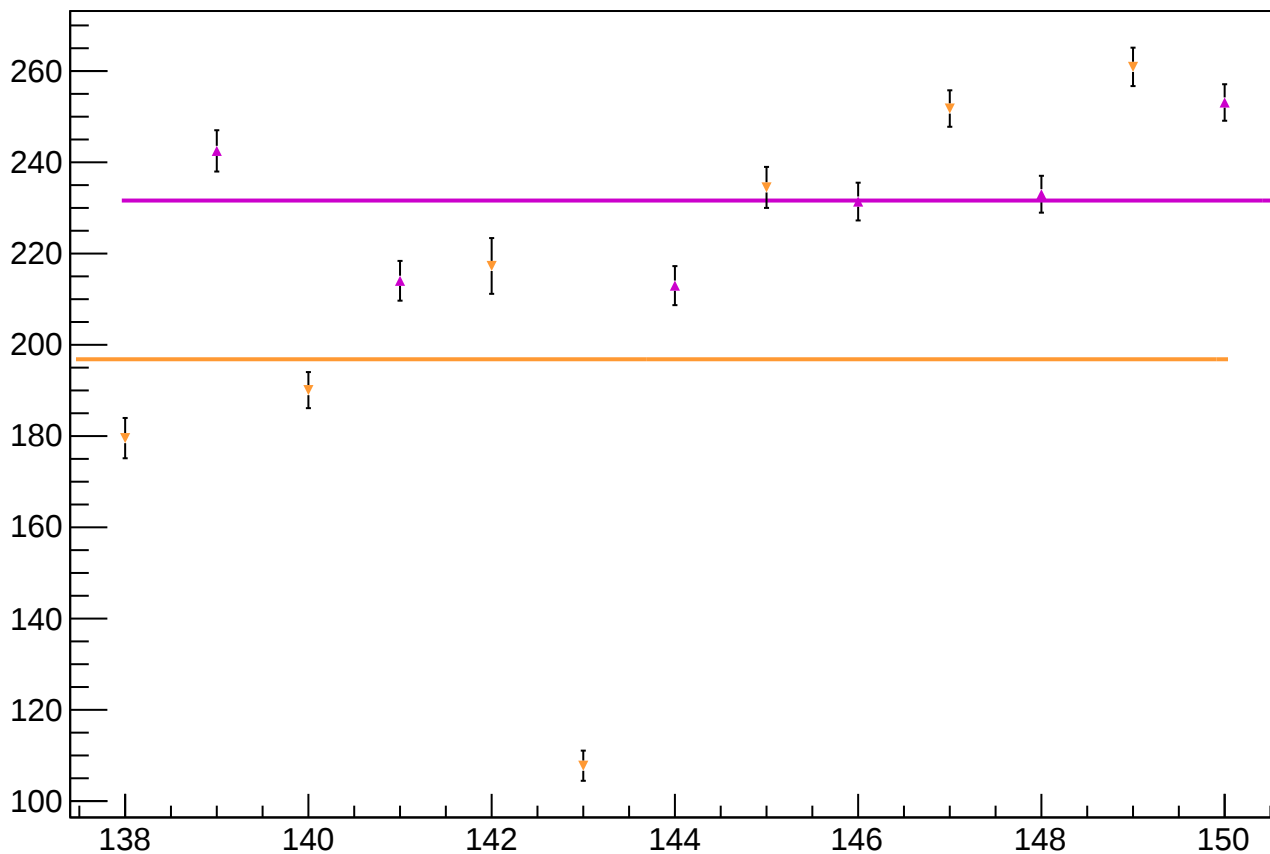
Right: 92.040+/-0.050  $\chi^2/\text{NDF}$ : 326534.9/34

In: 118.465+/-0.054  $\chi^2/\text{NDF}$ : 288160.5/22

Out: 100.271+/-0.052  $\chi^2/\text{NDF}$ : 903323.1/24

All: 108.949+/-0.038  $\chi^2/\text{NDF}$ : 1250040.2/47

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: 196.834+/-1.577  $\chi^2/\text{NDF}$ :1246.4/6

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

Left In: 231.621+/-1.719  $\chi^2/\text{NDF}$ :70.1/5

Left: 212.730+/-1.162  $\chi^2/\text{NDF}$ : 1538.8/12

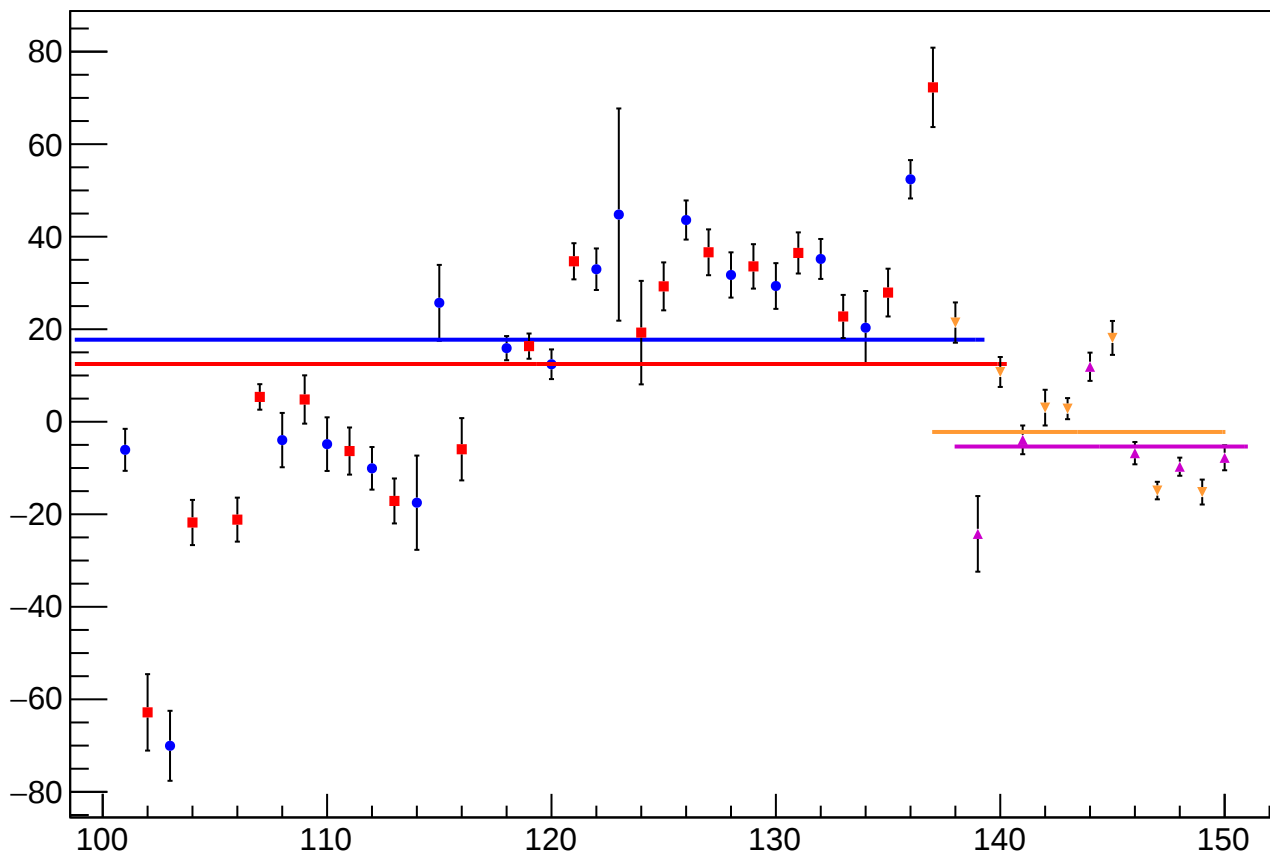
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 231.621+/-1.719  $\chi^2/\text{NDF}$ :70.1/5

Out: 196.834+/-1.577  $\chi^2/\text{NDF}$ :1246.4/6

All: 212.730+/-1.162  $\chi^2/\text{NDF}$ : 1538.8/12

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 17.737 $\pm$ 1.149  $\chi^2$ /NDF: 394.0/16

Left Out: -2.207 $\pm$ 1.055  $\chi^2$ /NDF:151.0/6

Right Out: 12.484 $\pm$ 1.085  $\chi^2$ /NDF: 429.2/17

Left In: -5.356 $\pm$ 1.121  $\chi^2$ /NDF:43.6/5

Left: -3.686 $\pm$ 0.768  $\chi^2$ /NDF: 198.8/12

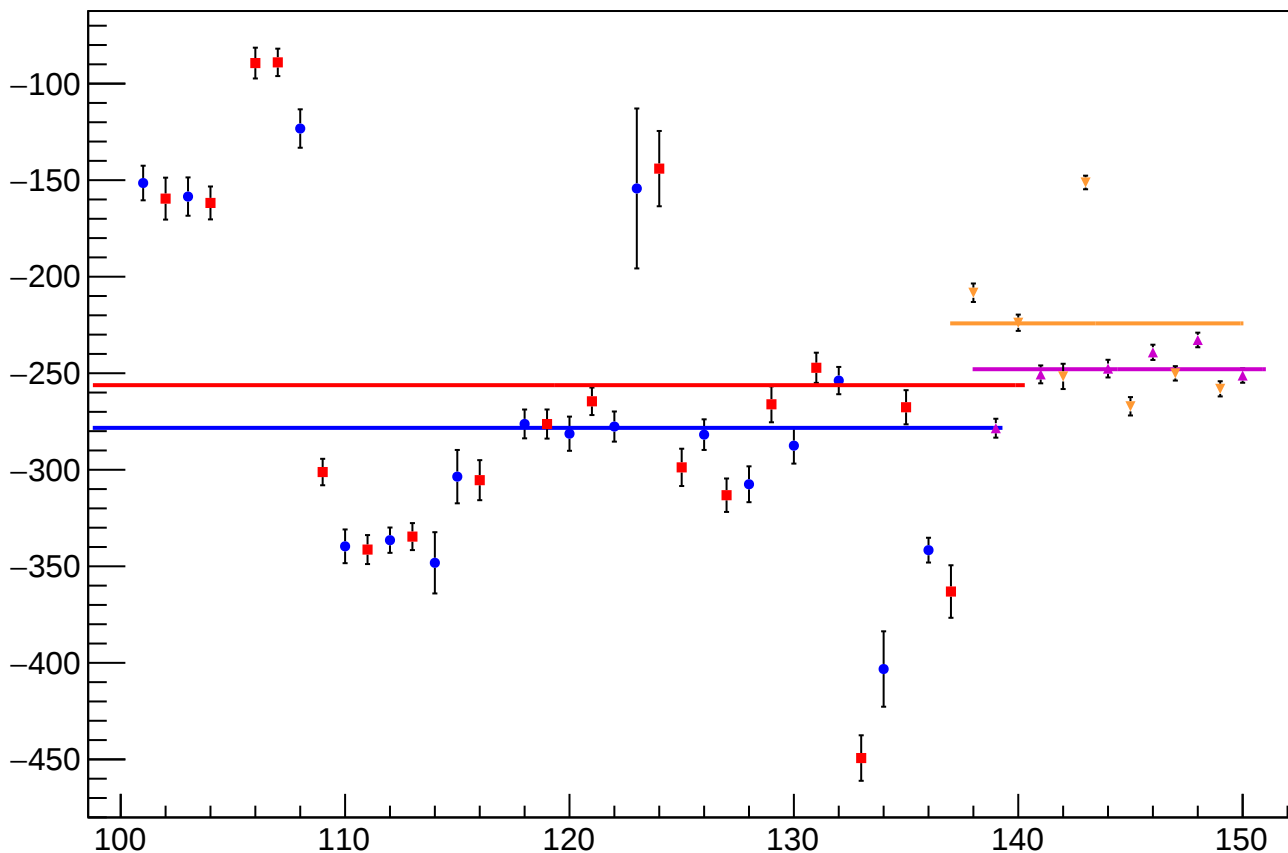
Right: 14.961 $\pm$ 0.789  $\chi^2$ /NDF: 834.2/34

In: 5.908 $\pm$ 0.802  $\chi^2$ /NDF:644.7/22

Out: 4.930 $\pm$ 0.756  $\chi^2$ /NDF:674.4/24

All: 5.390 $\pm$ 0.550  $\chi^2$ /NDF: 1319.9/47

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:  $-224.181 \pm 1.613$   $\chi^2/\text{NDF}: 660.7/6$

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}: 1952.2/17$

Left In:  $-247.918 \pm 1.712$   $\chi^2/\text{NDF}: 60.9/5$

Left:  $-235.343 \pm 1.174$   $\chi^2/\text{NDF}: 823.4/12$

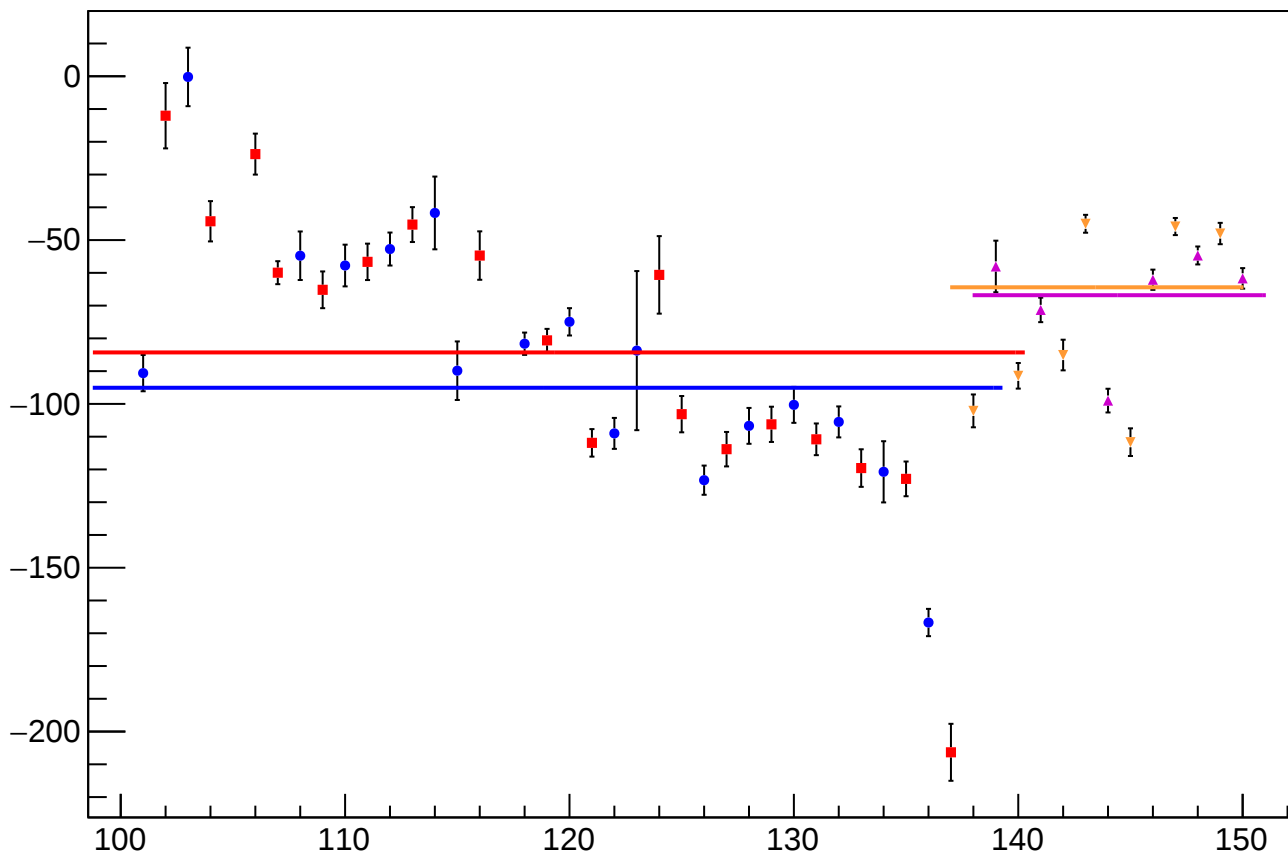
Right:  $-266.460 \pm 1.481$   $\chi^2/\text{NDF}: 2917.6/34$

In:  $-259.558 \pm 1.345$   $\chi^2/\text{NDF}: 1091.5/22$

Out:  $-236.603 \pm 1.262$   $\chi^2/\text{NDF}: 2765.7/24$

All:  $-247.351 \pm 0.920$   $\chi^2/\text{NDF}: 4012.1/47$

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:  $-64.409 \pm 1.311$   $\chi^2/\text{NDF}$ : 375.5/6

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

Left In:  $-66.824 \pm 1.408$   $\chi^2/\text{NDF}$ : 106.3/5

Left:  $-65.530 \pm 0.959$   $\chi^2/\text{NDF}$ : 483.4/12

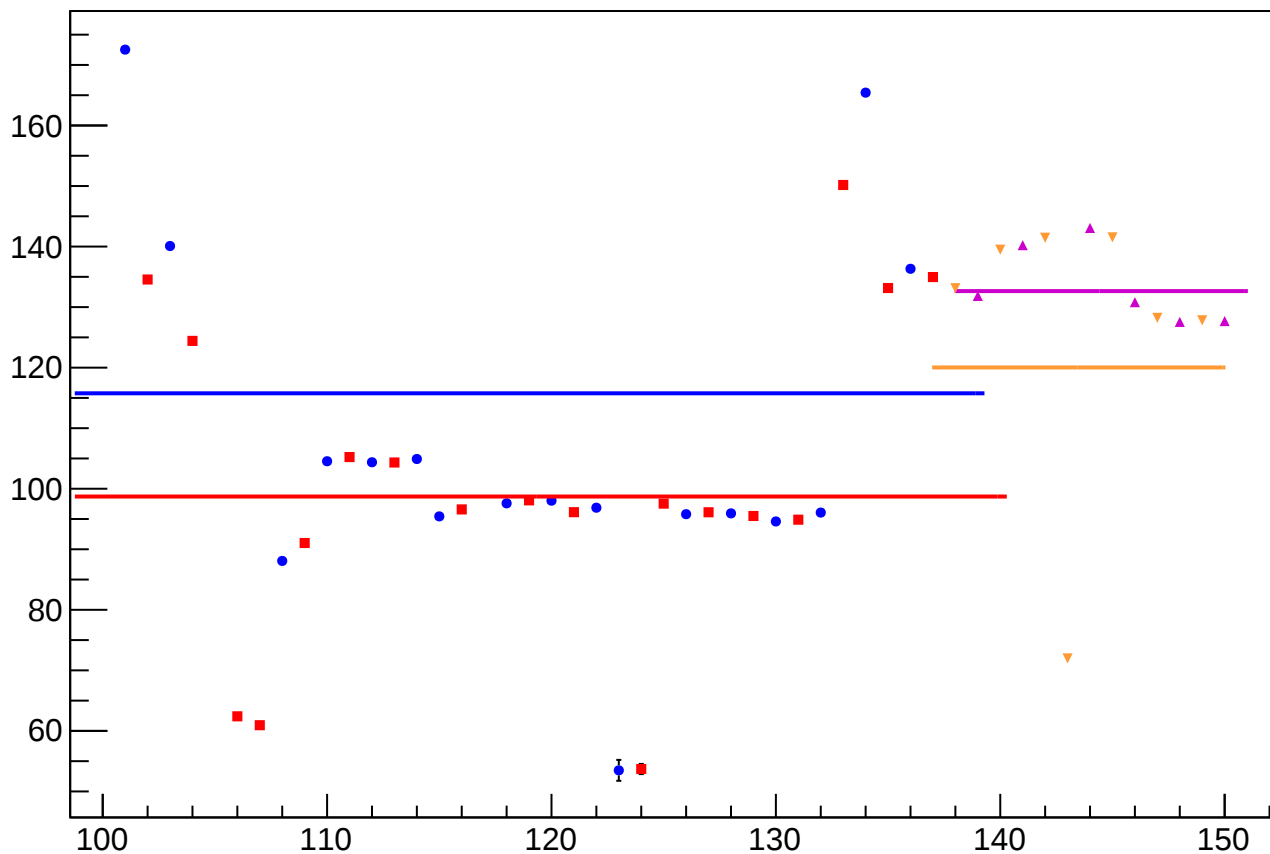
Right:  $-89.402 \pm 0.913$   $\chi^2/\text{NDF}$ : 1476.8/34

In:  $-81.803 \pm 0.965$   $\chi^2/\text{NDF}$ : 993.0/22

Out:  $-74.755 \pm 0.908$   $\chi^2/\text{NDF}$ : 1264.0/24

All:  $-78.063 \pm 0.661$   $\chi^2/\text{NDF}$ : 2285.3/47

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: 120.032 $\pm$ 0.068  $\chi^2$ /NDF:154740.4/6

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

Left In: 132.646 $\pm$ 0.072  $\chi^2$ /NDF:6460.9/5

Left: 126.021 $\pm$ 0.049  $\chi^2$ /NDF: 177541.2/12

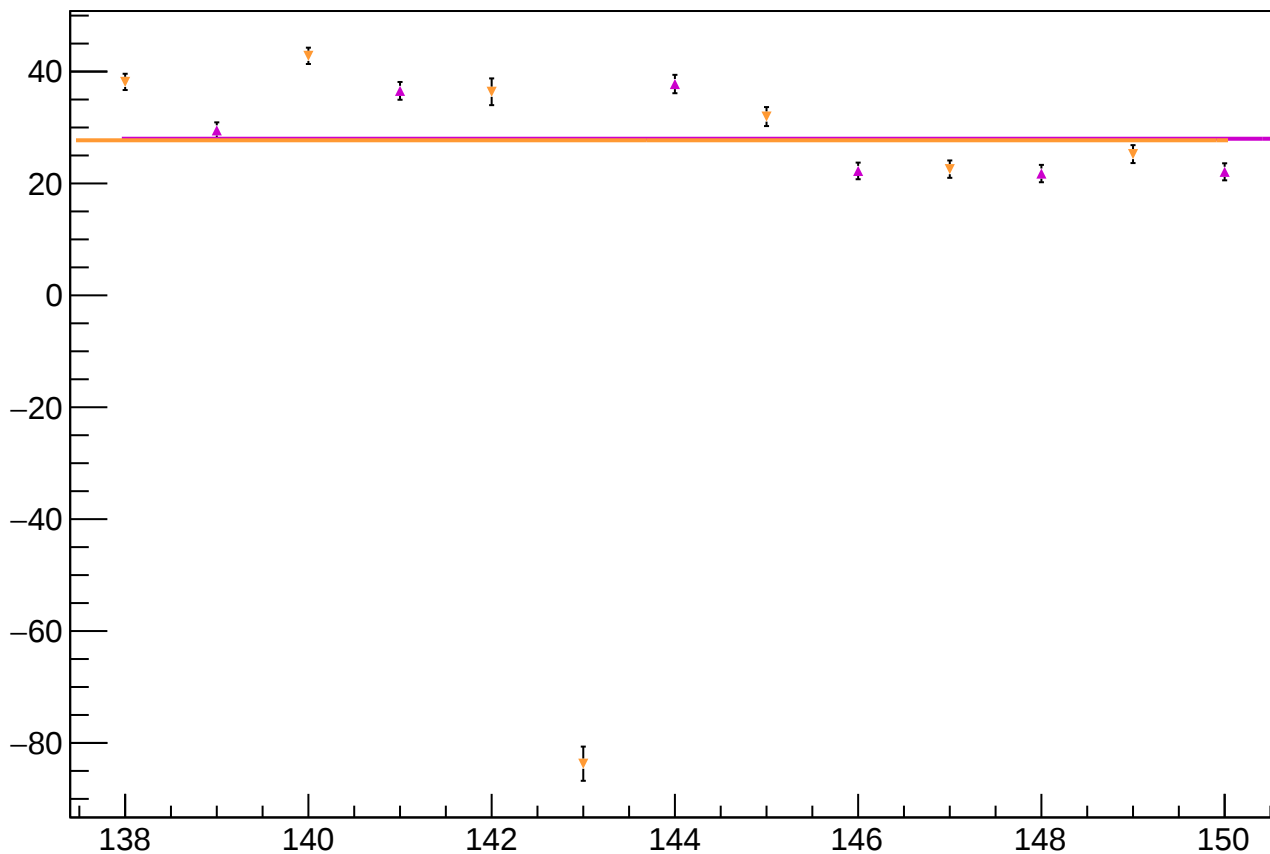
Right: 106.153 $\pm$ 0.052  $\chi^2$ /NDF: 303349.7/34

In: 124.945 $\pm$ 0.053  $\chi^2$ /NDF:138183.2/22

Out: 109.484 $\pm$ 0.048  $\chi^2$ /NDF:373561.6/24

All: 116.541 $\pm$ 0.036  $\chi^2$ /NDF: 558456.8/47

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: 27.714+/-0.649  $\chi^2/\text{NDF}$ :1521.2/6

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

Left In: 27.991+/-0.626  $\chi^2/\text{NDF}$ :111.8/5

Left: 27.858+/-0.450  $\chi^2/\text{NDF}$ : 1633.1/12

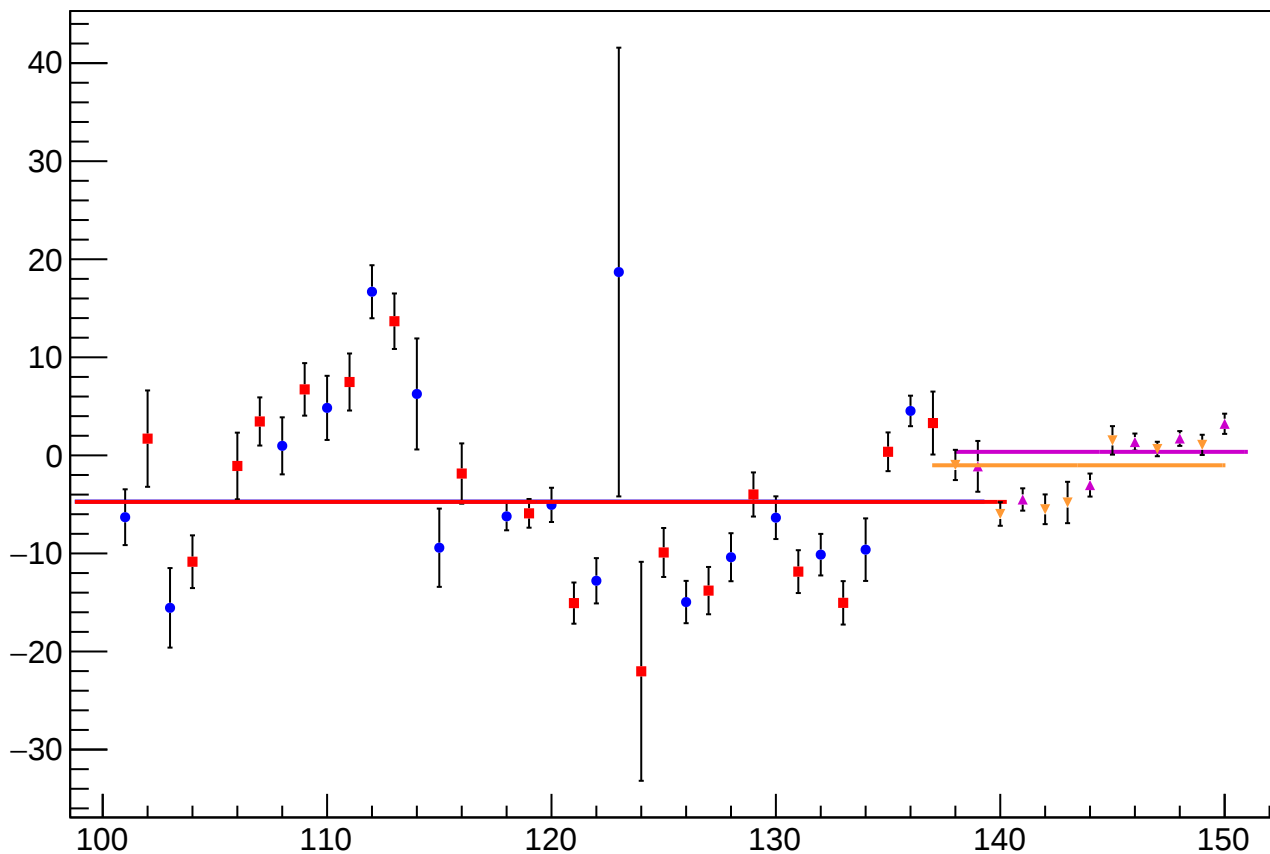
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 27.991+/-0.626  $\chi^2/\text{NDF}$ :111.8/5

Out: 27.714+/-0.649  $\chi^2/\text{NDF}$ :1521.2/6

All: 27.858+/-0.450  $\chi^2/\text{NDF}$ : 1633.1/12

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:  $-1.011 \pm 0.446$   $\chi^2/\text{NDF}$ : 41.2/6

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

Left In:  $0.359 \pm 0.420$   $\chi^2/\text{NDF}$ : 39.2/5

Left:  $-0.284 \pm 0.306$   $\chi^2/\text{NDF}$ : 85.4/12

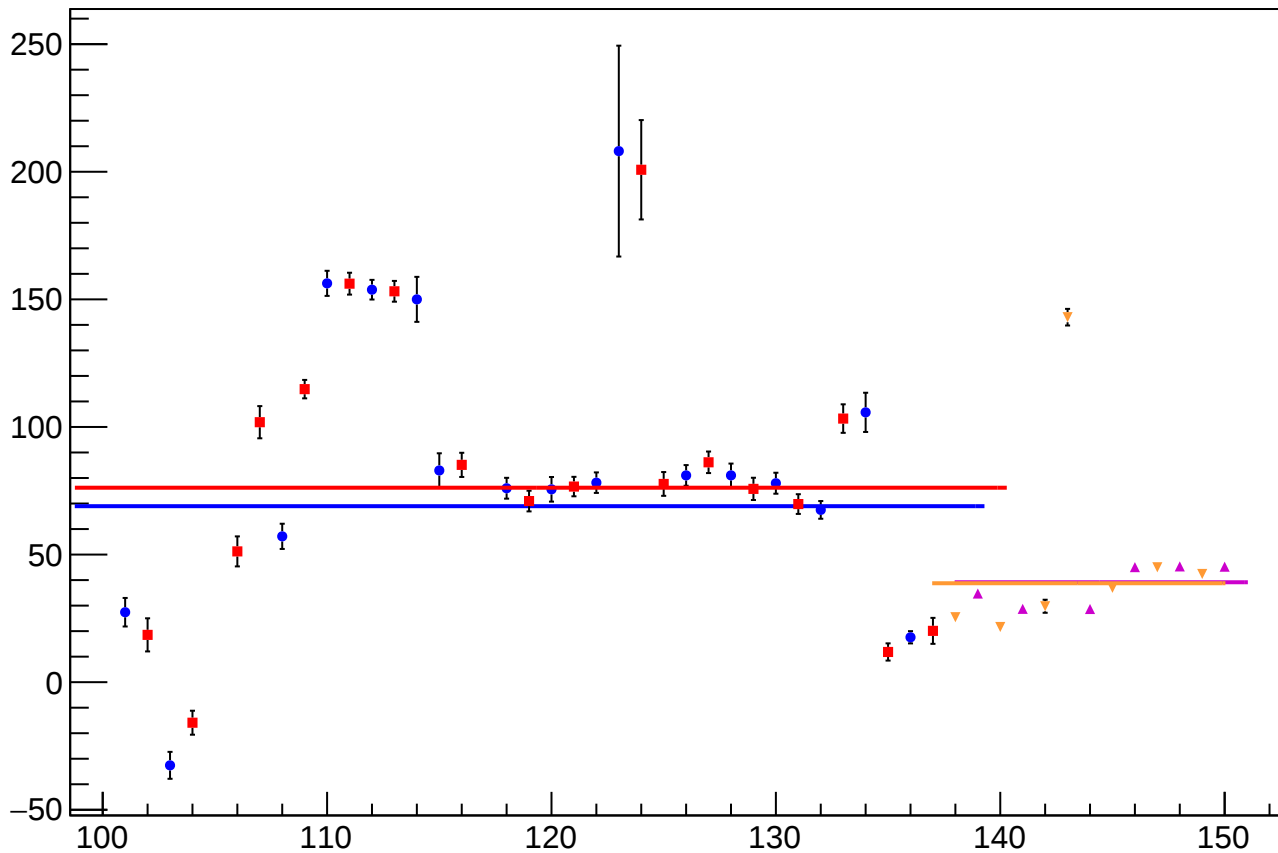
Right:  $-4.729 \pm 0.412$   $\chi^2/\text{NDF}$ : 364.0/34

In:  $-1.380 \pm 0.340$   $\chi^2/\text{NDF}$ : 264.0/22

Out:  $-2.383 \pm 0.355$   $\chi^2/\text{NDF}$ : 256.3/24

All:  $-1.860 \pm 0.246$   $\chi^2/\text{NDF}$ : 524.4/47

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 68.960 $\pm$ 1.079  $\chi^2$ /NDF: 1844.0/16

Left Out: 38.763 $\pm$ 0.659  $\chi^2$ /NDF:1254.2/6

Right Out: 76.199 $\pm$ 1.071  $\chi^2$ /NDF: 1881.0/17

Left In: 39.153 $\pm$ 0.626  $\chi^2$ /NDF:135.8/5

Left: 38.968 $\pm$ 0.454  $\chi^2$ /NDF: 1390.2/12

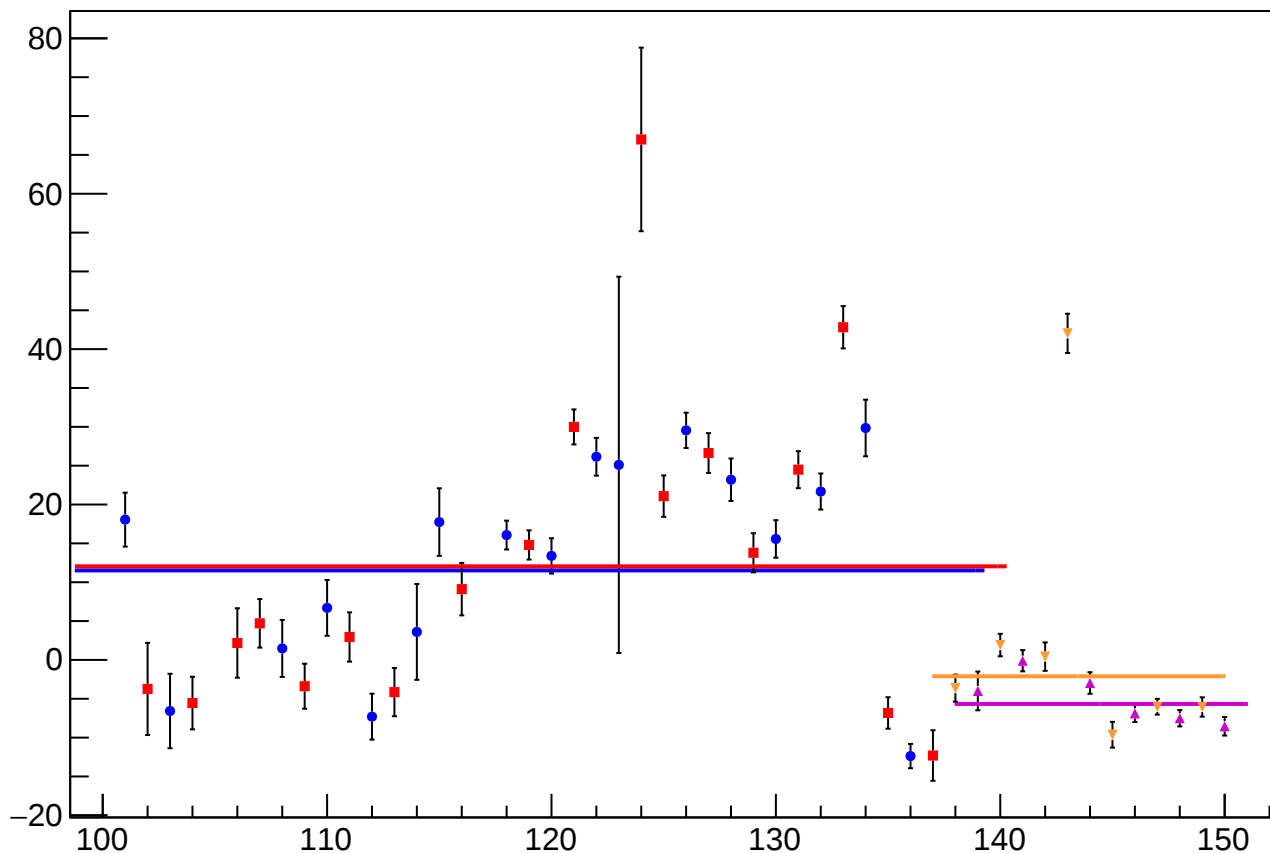
Right: 72.606 $\pm$ 0.760  $\chi^2$ /NDF: 3747.6/34

In: 46.657 $\pm$ 0.541  $\chi^2$ /NDF:2550.9/22

Out: 49.042 $\pm$ 0.561  $\chi^2$ /NDF:4021.5/24

All: 47.807 $\pm$ 0.390  $\chi^2$ /NDF: 6581.7/47

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $11.521 \pm 0.660$   $\chi^2/\text{NDF}$ : 477.2/16

Left Out:  $-2.106 \pm 0.555$   $\chi^2/\text{NDF}$ : 361.5/6

Right Out:  $12.046 \pm 0.665$   $\chi^2/\text{NDF}$ : 538.7/17

Left In:  $-5.666 \pm 0.525$   $\chi^2/\text{NDF}$ : 30.8/5

Left:  $-3.984 \pm 0.381$   $\chi^2/\text{NDF}$ : 414.0/12

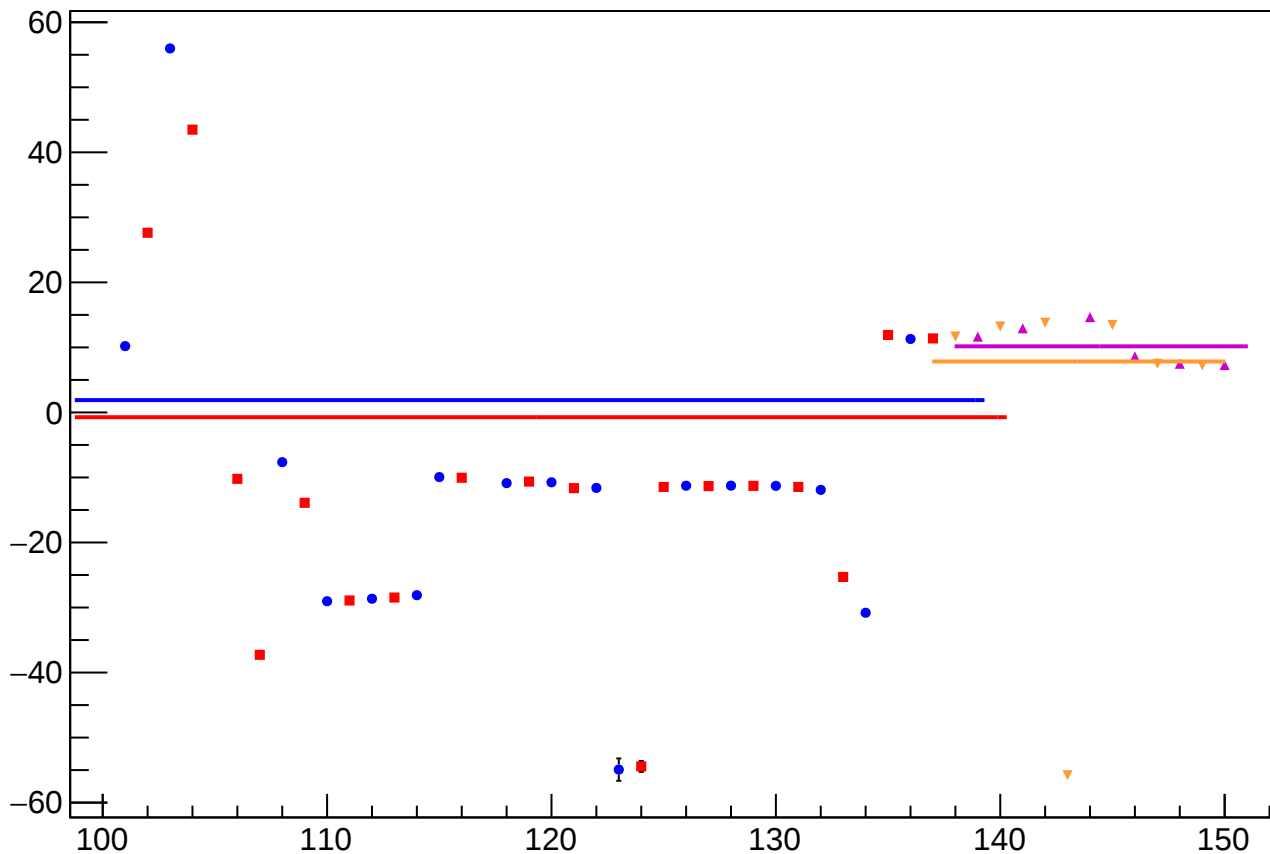
Right:  $11.782 \pm 0.468$   $\chi^2/\text{NDF}$ : 1016.2/34

In:  $1.000 \pm 0.411$   $\chi^2/\text{NDF}$ : 923.4/22

Out:  $3.710 \pm 0.426$   $\chi^2/\text{NDF}$ : 1167.4/24

All:  $2.306 \pm 0.296$   $\chi^2/\text{NDF}$ : 2111.7/47

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.896 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 358855.7/16

Left Out: 7.835 $\pm$ 0.028  $\chi^2/\text{NDF}$ :256119.1/6

Right Out: -0.733 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 359934.4/17

Left In: 10.164 $\pm$ 0.026  $\chi^2/\text{NDF}$ :10567.0/5

Left: 9.082 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 270451.3/12

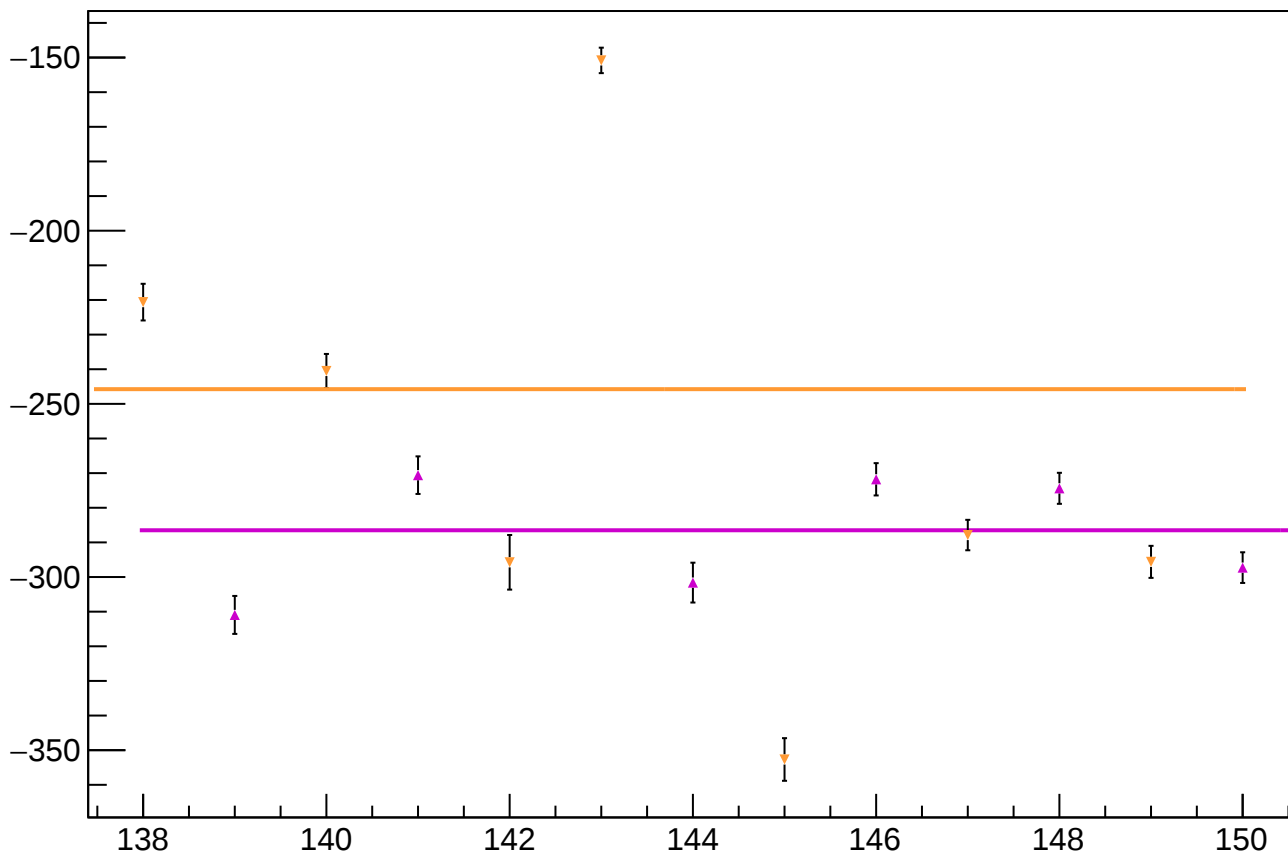
Right: 0.584 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 721303.3/34

In: 7.452 $\pm$ 0.021  $\chi^2/\text{NDF}$ :402902.7/22

Out: 4.759 $\pm$ 0.022  $\chi^2/\text{NDF}$ :650215.7/24

All: 6.169 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 1060796.2/47

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: -245.753+/-1.851  $\chi^2/\text{NDF}$ :1240.6/6

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

Left In: -286.497+/-2.023  $\chi^2/\text{NDF}$ :58.6/5

Left: -264.315+/-1.366  $\chi^2/\text{NDF}$ : 1520.0/12

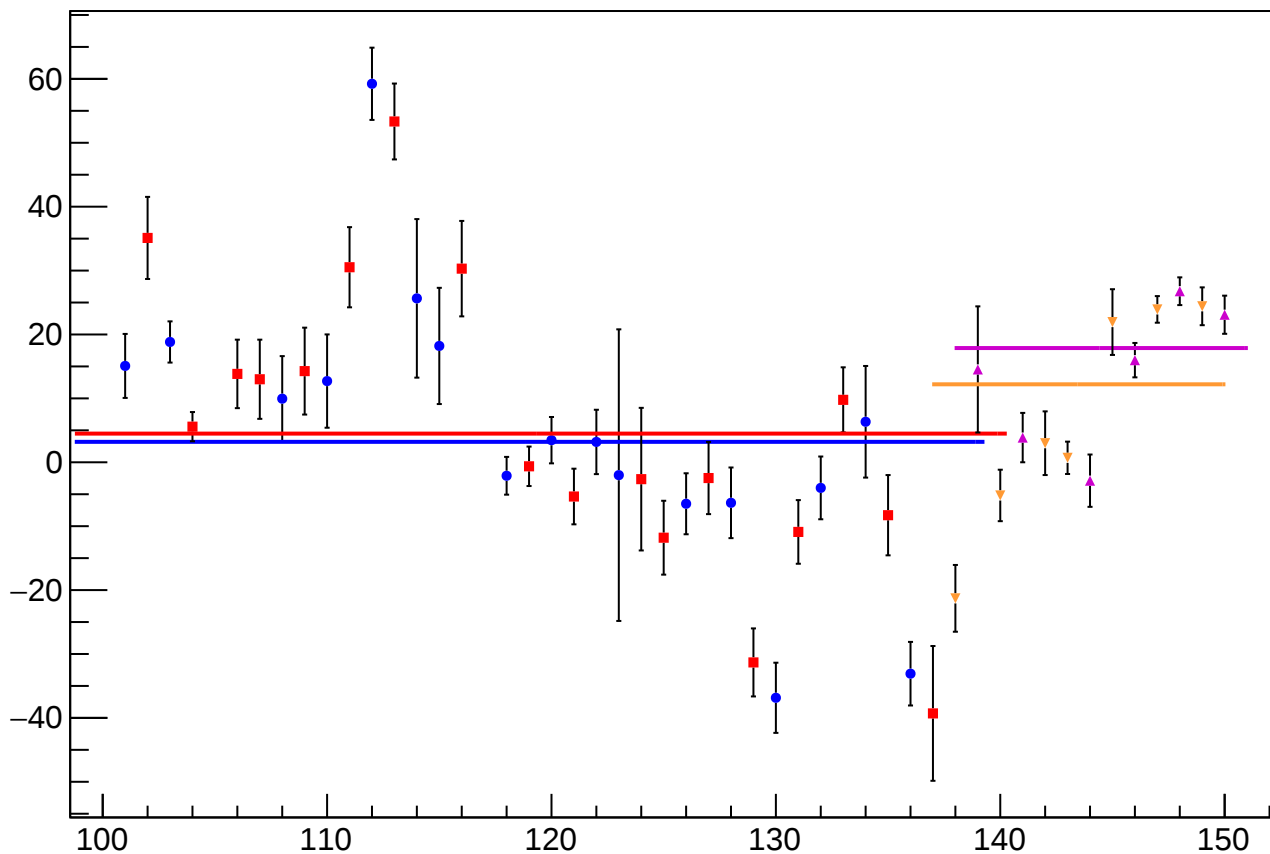
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -286.497+/-2.023  $\chi^2/\text{NDF}$ :58.6/5

Out: -245.753+/-1.851  $\chi^2/\text{NDF}$ :1240.6/6

All: -264.315+/-1.366  $\chi^2/\text{NDF}$ : 1520.0/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.200 $\pm$ 1.227  $\chi^2$ /NDF: 255.2/16

Left Out: 12.203 $\pm$ 1.215  $\chi^2$ /NDF:136.1/6

Right Out: 4.489 $\pm$ 1.159  $\chi^2$ /NDF: 221.8/17

Left In: 17.877 $\pm$ 1.292  $\chi^2$ /NDF:59.3/5

Left: 14.867 $\pm$ 0.885  $\chi^2$ /NDF: 205.7/12

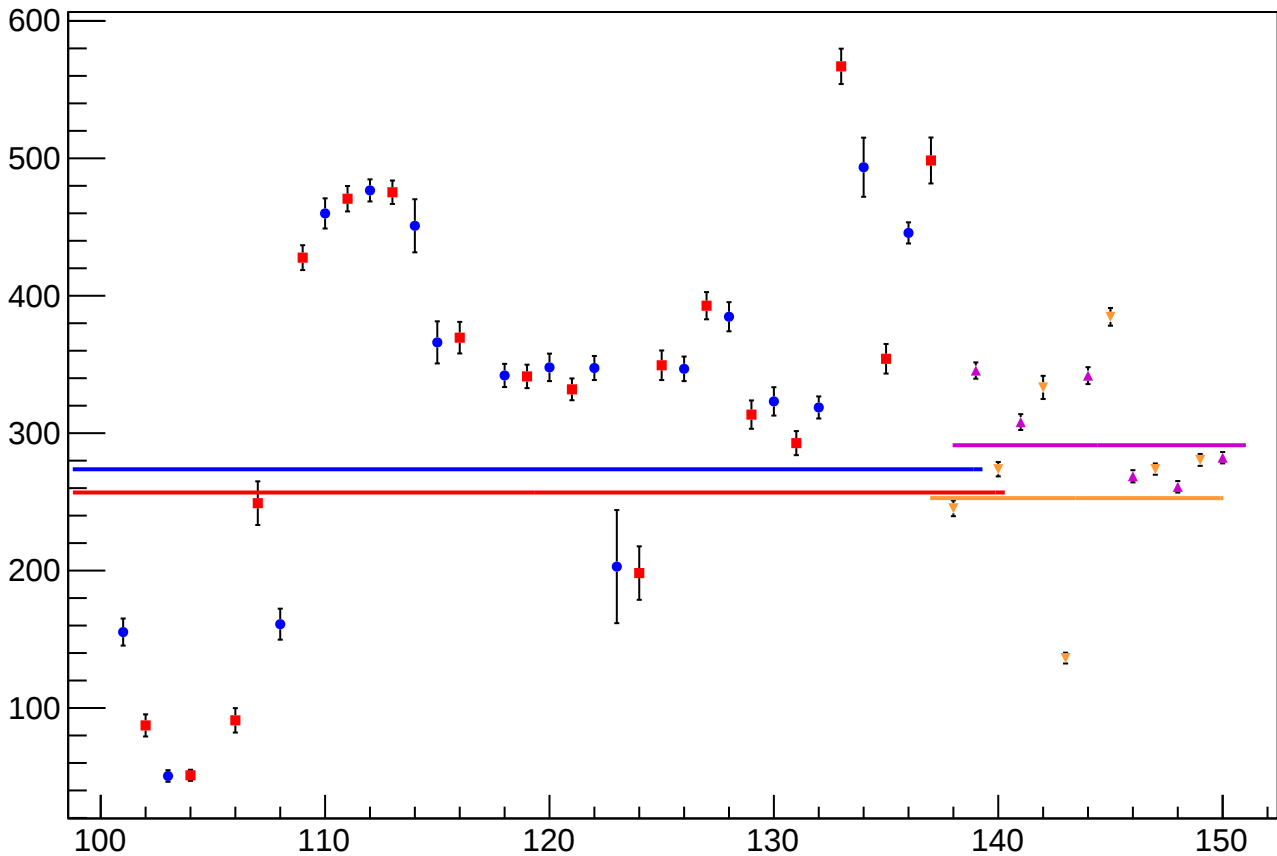
Right: 3.881 $\pm$ 0.843  $\chi^2$ /NDF: 477.5/34

In: 10.164 $\pm$ 0.890  $\chi^2$ /NDF:382.3/22

Out: 8.162 $\pm$ 0.839  $\chi^2$ /NDF:379.0/24

All: 9.104 $\pm$ 0.610  $\chi^2$ /NDF: 764.0/47

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: 252.741 $\pm$ 1.881  $\chi^2$ /NDF:1475.9/6

Right Out: 256.826 $\pm$ 2.084  $\chi^2$ /NDF: 6411.8/17

Left In: 291.226 $\pm$ 1.998  $\chi^2$ /NDF:242.7/5

Left: 270.815 $\pm$ 1.370  $\chi^2$ /NDF: 1915.2/12

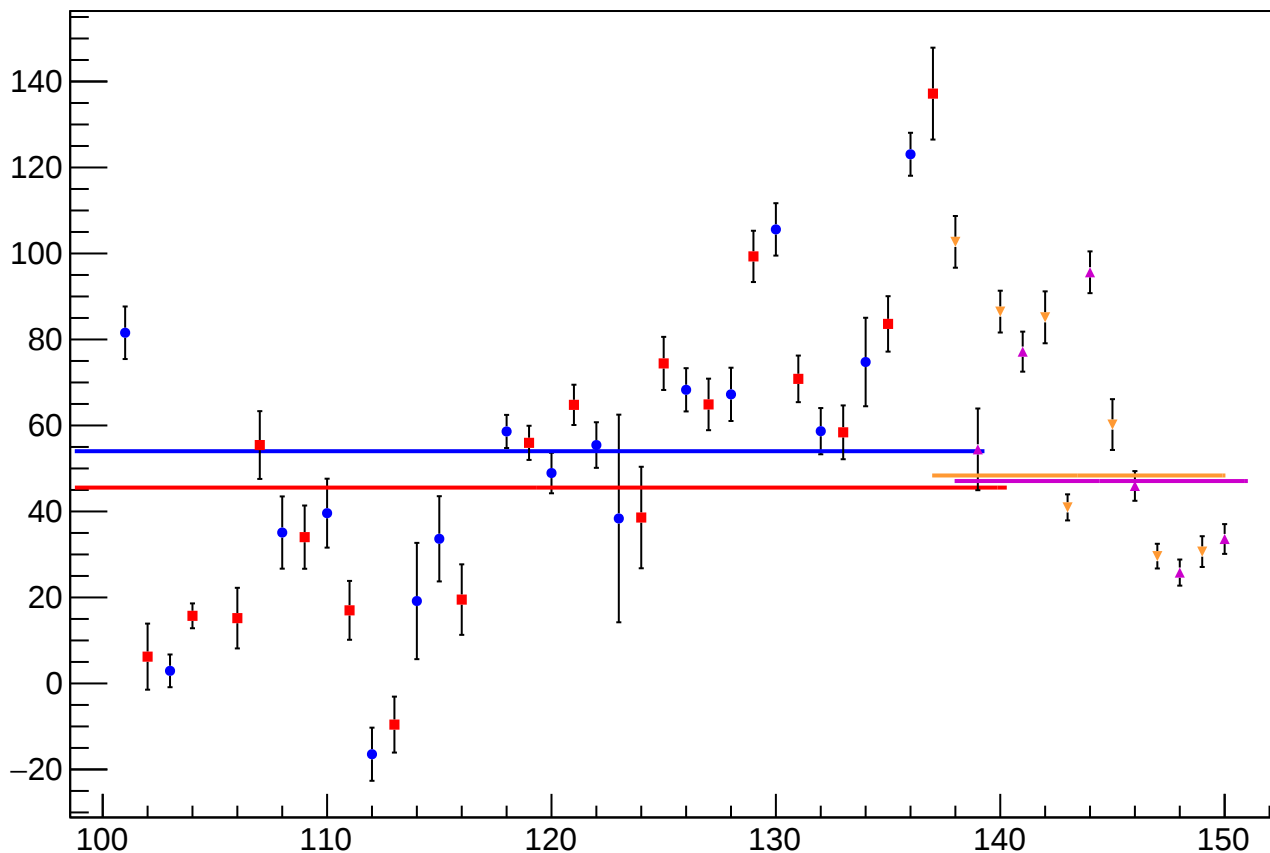
Right: 264.834 $\pm$ 1.511  $\chi^2$ /NDF: 11546.2/34

In: 283.288 $\pm$ 1.478  $\chi^2$ /NDF:5380.8/22

Out: 254.575 $\pm$ 1.396  $\chi^2$ /NDF:7889.7/24

All: 268.117 $\pm$ 1.015  $\chi^2$ /NDF: 13470.0/47

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: 48.367 $\pm$ 1.518  $\chi^2$ /NDF: 257.3/6

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

Left In: 47.074 $\pm$ 1.632  $\chi^2$ /NDF: 206.7/5

Left: 47.767 $\pm$ 1.112  $\chi^2$ /NDF: 464.3/12

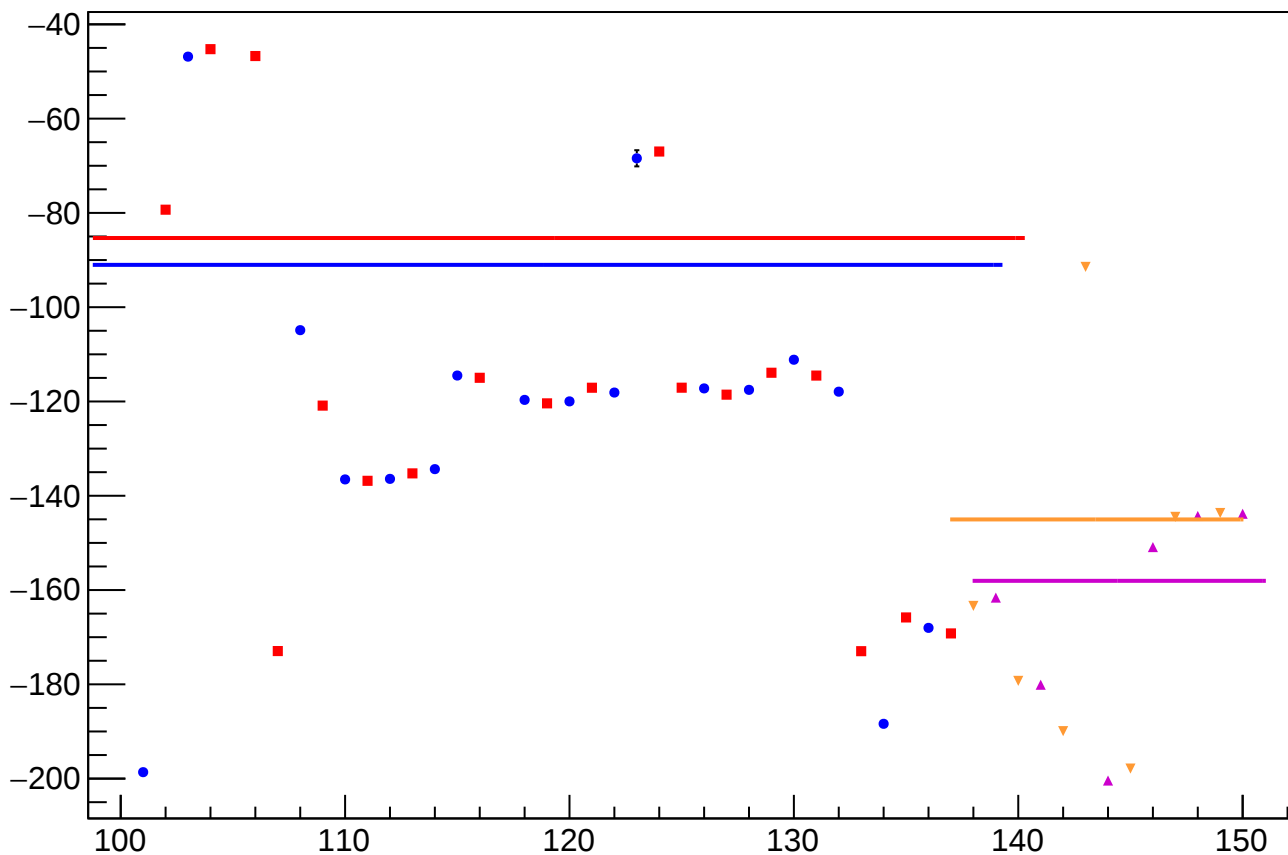
Right: 49.587 $\pm$ 0.983  $\chi^2$ /NDF: 1178.0/34

In: 51.017 $\pm$ 1.073  $\chi^2$ /NDF: 849.8/22

Out: 46.804 $\pm$ 1.012  $\chi^2$ /NDF: 785.8/24

All: 48.788 $\pm$ 0.736  $\chi^2$ /NDF: 1643.8/47

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-91.021 \pm 0.068$   $\chi^2/\text{NDF}: 534258.1/16$

Left Out:  $-145.023 \pm 0.080$   $\chi^2/\text{NDF}: 204488.0/6$

Right Out:  $-85.325 \pm 0.065$   $\chi^2/\text{NDF}: 483106.3/17$

Left In:  $-158.047 \pm 0.084$   $\chi^2/\text{NDF}: 47682.3/5$

Left:  $-151.217 \pm 0.058$   $\chi^2/\text{NDF}: 264874.9/12$

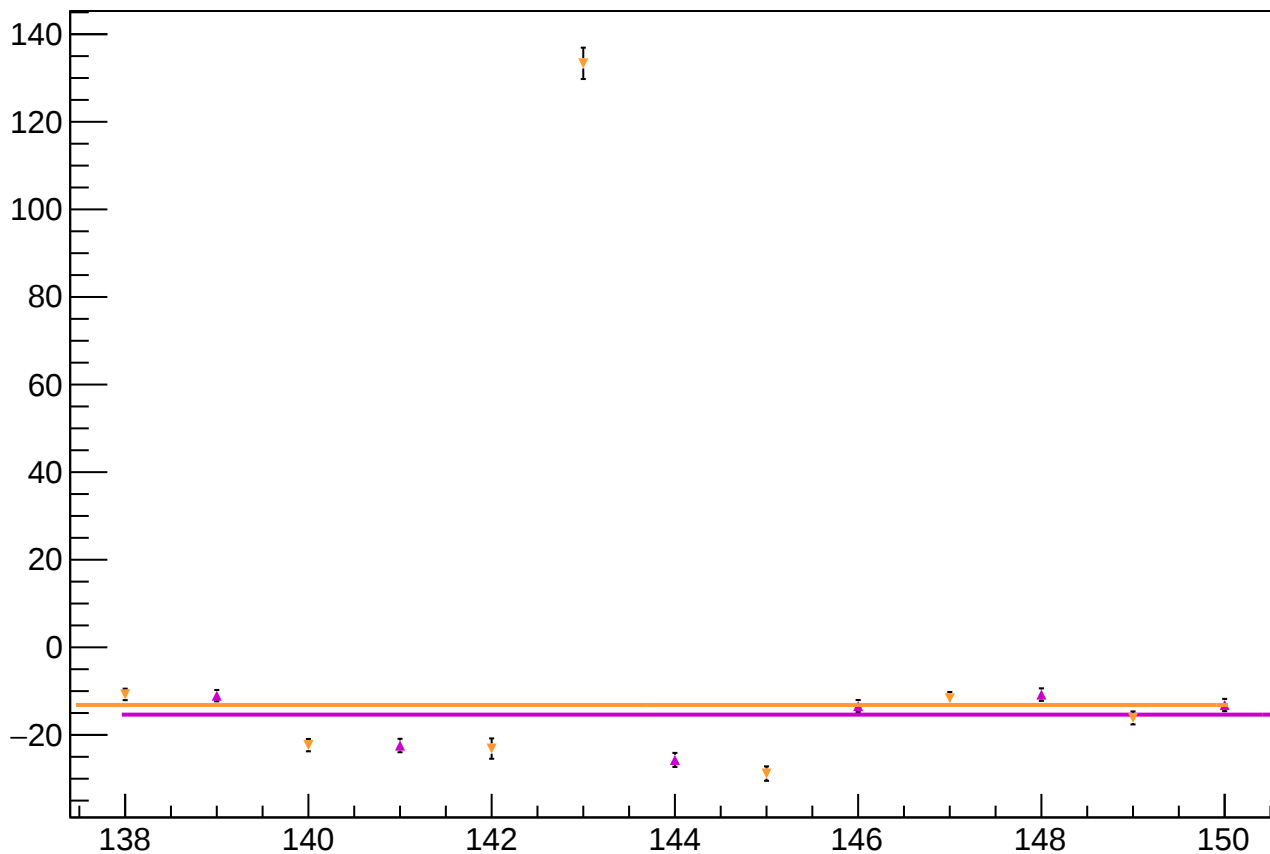
Right:  $-88.069 \pm 0.047$   $\chi^2/\text{NDF}: 1021045.4/34$

In:  $-117.483 \pm 0.053$   $\chi^2/\text{NDF}: 970268.7/22$

Out:  $-109.250 \pm 0.050$   $\chi^2/\text{NDF}: 1023969.7/24$

All:  $-113.196 \pm 0.036$   $\chi^2/\text{NDF}: 2007006.0/47$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



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

Left Out: -13.165+/-0.614  $\chi^2/\text{NDF}$ :1833.1/6

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

Left In: -15.371+/-0.584  $\chi^2/\text{NDF}$ :88.3/5

Left: -14.323+/-0.423  $\chi^2/\text{NDF}$ : 1928.2/12

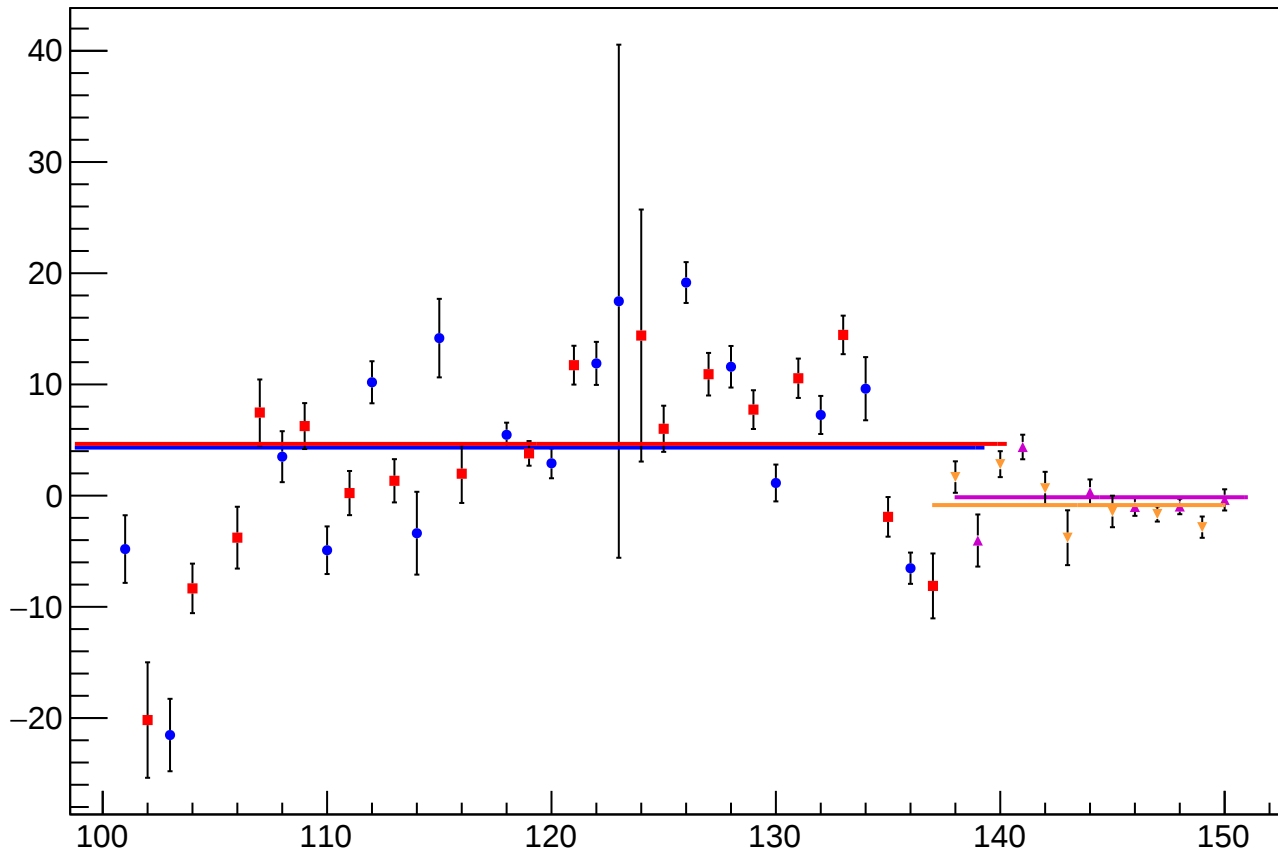
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.371+/-0.584  $\chi^2/\text{NDF}$ :88.3/5

Out: -13.165+/-0.614  $\chi^2/\text{NDF}$ :1833.1/6

All: -14.323+/-0.423  $\chi^2/\text{NDF}$ : 1928.2/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.322 \pm 0.465$   $\chi^2/\text{NDF}$ : 280.3/16

Left Out:  $-0.850 \pm 0.423$   $\chi^2/\text{NDF}$ : 21.4/6

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.4/17

Left In:  $-0.145 \pm 0.393$   $\chi^2/\text{NDF}$ : 22.3/5

Left:  $-0.471 \pm 0.288$   $\chi^2/\text{NDF}$ : 45.3/12

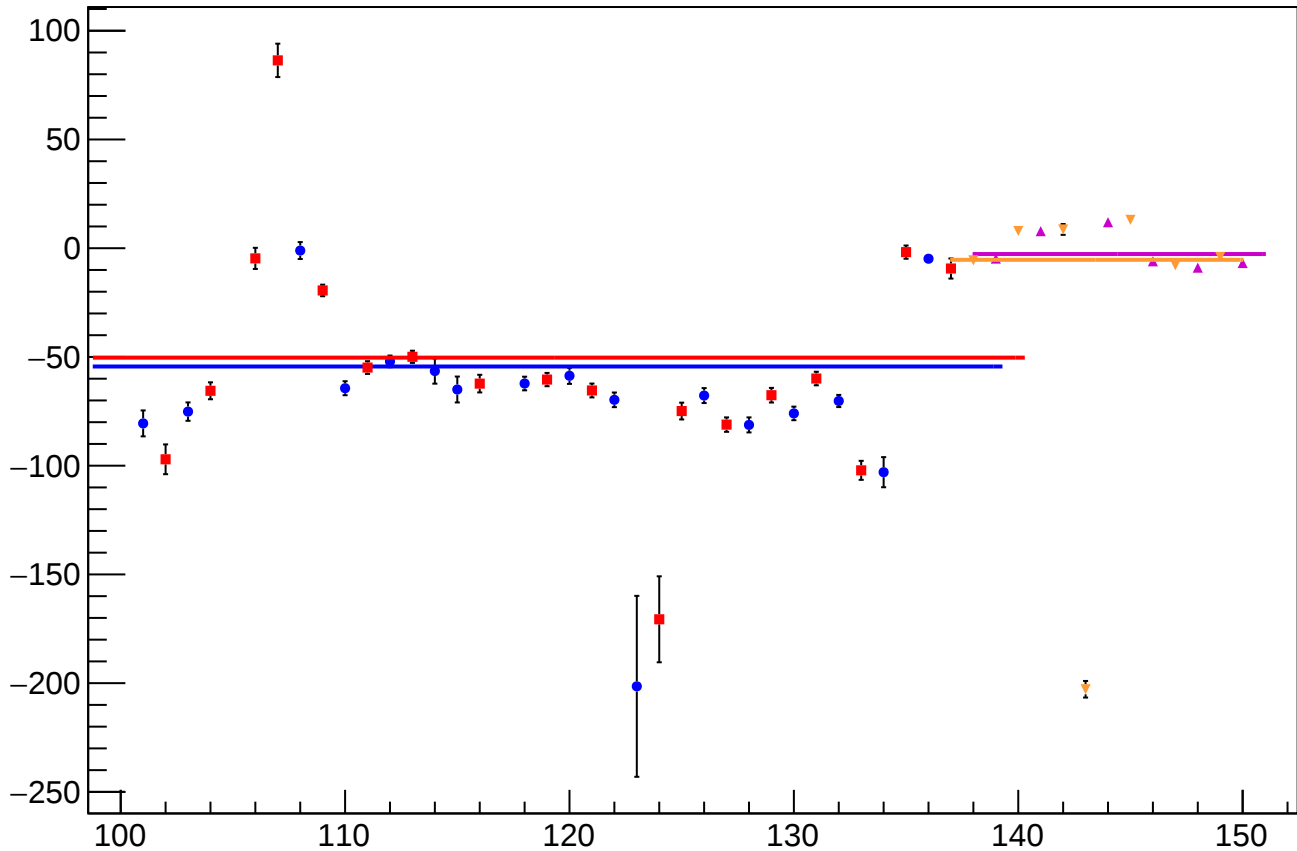
Right:  $4.484 \pm 0.332$   $\chi^2/\text{NDF}$ : 465.0/34

In:  $1.712 \pm 0.300$   $\chi^2/\text{NDF}$ : 356.5/22

Out:  $1.588 \pm 0.315$   $\chi^2/\text{NDF}$ : 280.9/24

All:  $1.653 \pm 0.217$   $\chi^2/\text{NDF}$ : 637.5/47

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:  $-5.337 \pm 0.623$   $\chi^2/\text{NDF}: 2901.2/6$

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}: 1319.3/17$

Left In:  $-2.674 \pm 0.584$   $\chi^2/\text{NDF}: 154.2/5$

Left:  $-3.920 \pm 0.426$   $\chi^2/\text{NDF}: 3065.1/12$

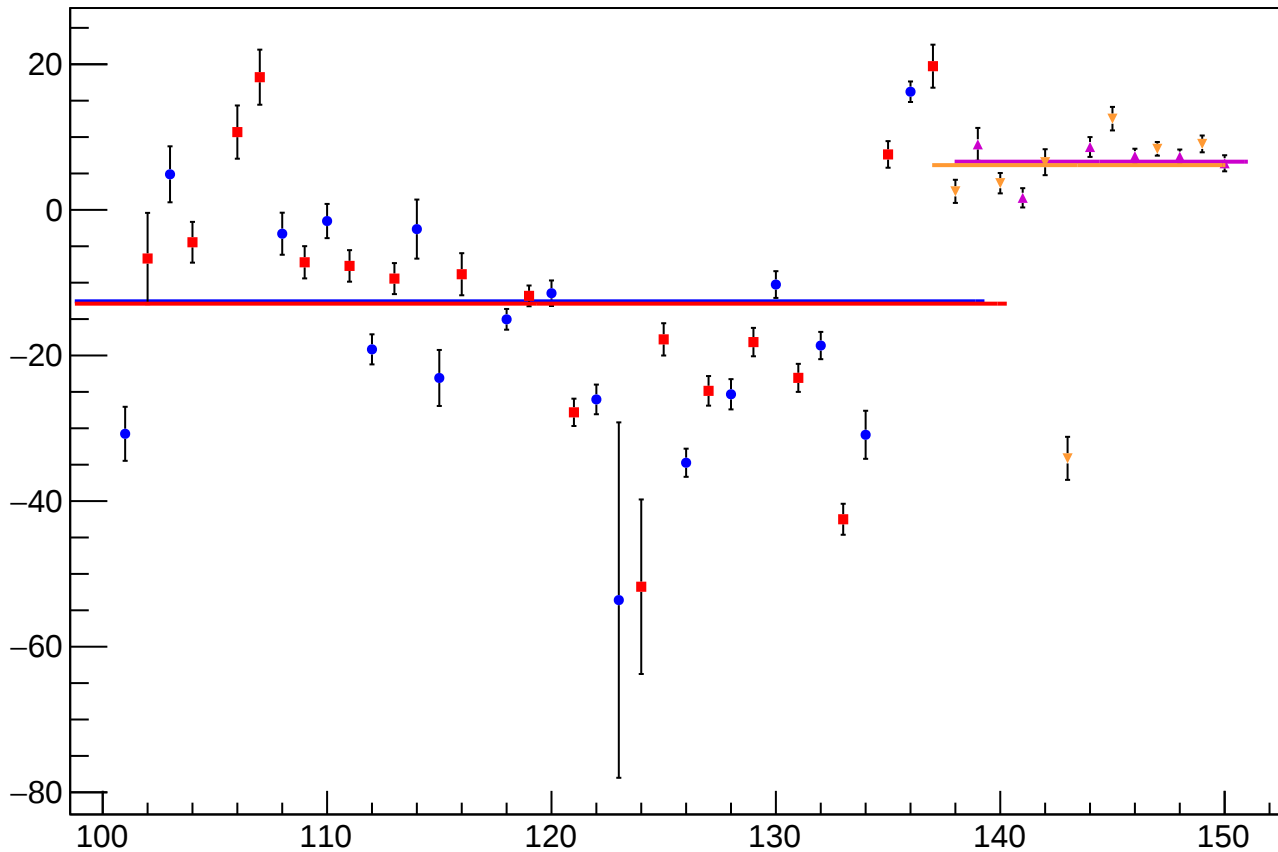
Right:  $-52.337 \pm 0.609$   $\chi^2/\text{NDF}: 2344.4/34$

In:  $-18.871 \pm 0.484$   $\chi^2/\text{NDF}: 3625.7/22$

Out:  $-20.846 \pm 0.504$   $\chi^2/\text{NDF}: 6019.8/24$

All:  $-19.818 \pm 0.349$   $\chi^2/\text{NDF}: 9653.5/47$

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:  $6.146 \pm 0.527$   $\chi^2/\text{NDF}$ : 221.6/6

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

Left In:  $6.620 \pm 0.492$   $\chi^2/\text{NDF}$ : 18.5/5

Left:  $6.399 \pm 0.359$   $\chi^2/\text{NDF}$ : 240.5/12

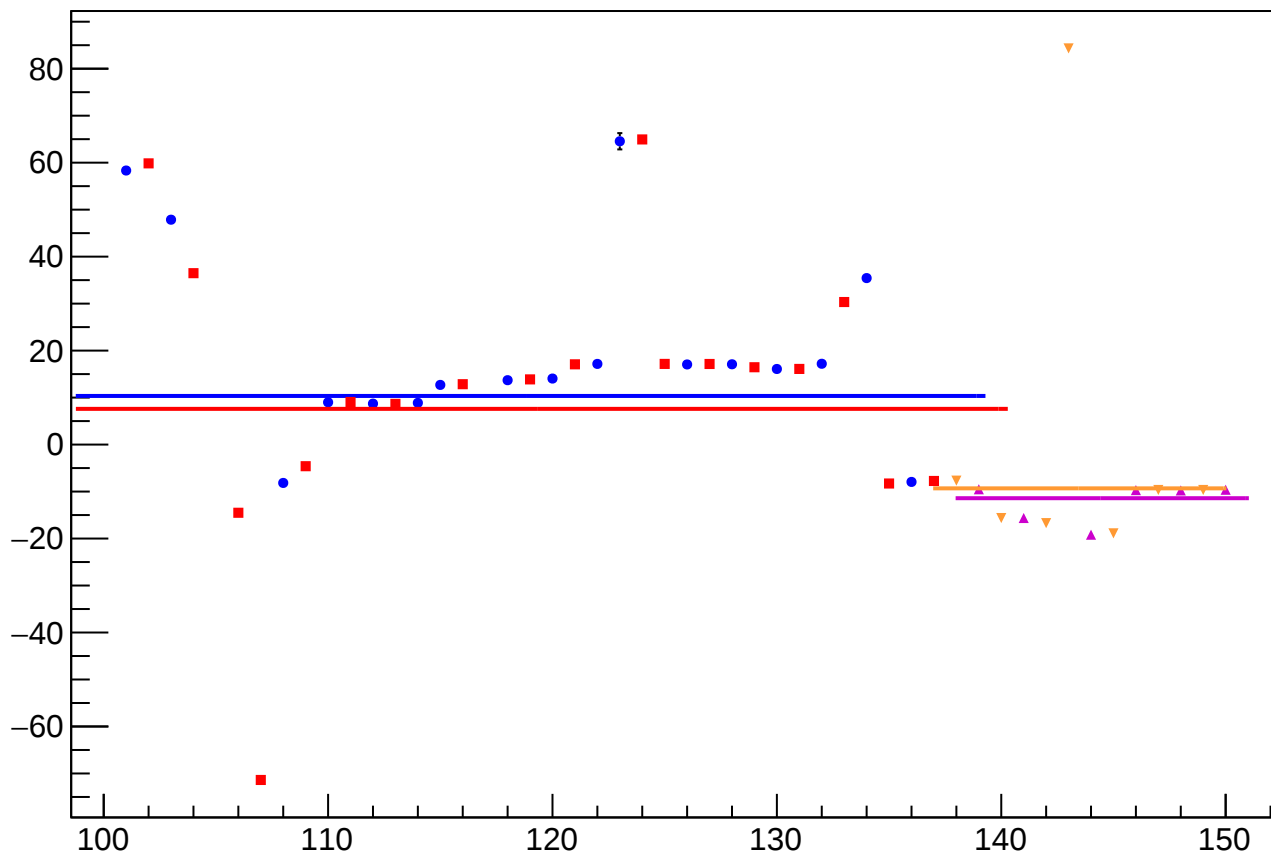
Right:  $-12.719 \pm 0.378$   $\chi^2/\text{NDF}$ : 1506.3/34

In:  $-2.228 \pm 0.361$   $\chi^2/\text{NDF}$ : 1499.7/22

Out:  $-3.161 \pm 0.376$   $\chi^2/\text{NDF}$ : 1586.5/24

All:  $-2.675 \pm 0.261$   $\chi^2/\text{NDF}$ : 3089.4/47

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $10.350 \pm 0.031$   $\chi^2/\text{NDF}: 380878.9/16$

Left Out:  $-9.318 \pm 0.026$   $\chi^2/\text{NDF}: 407039.2/6$

Right Out:  $7.602 \pm 0.031$   $\chi^2/\text{NDF}: 538460.3/17$

Left In:  $-11.413 \pm 0.024$   $\chi^2/\text{NDF}: 18950.0/5$

Left:  $-10.456 \pm 0.018$   $\chi^2/\text{NDF}: 429448.9/12$

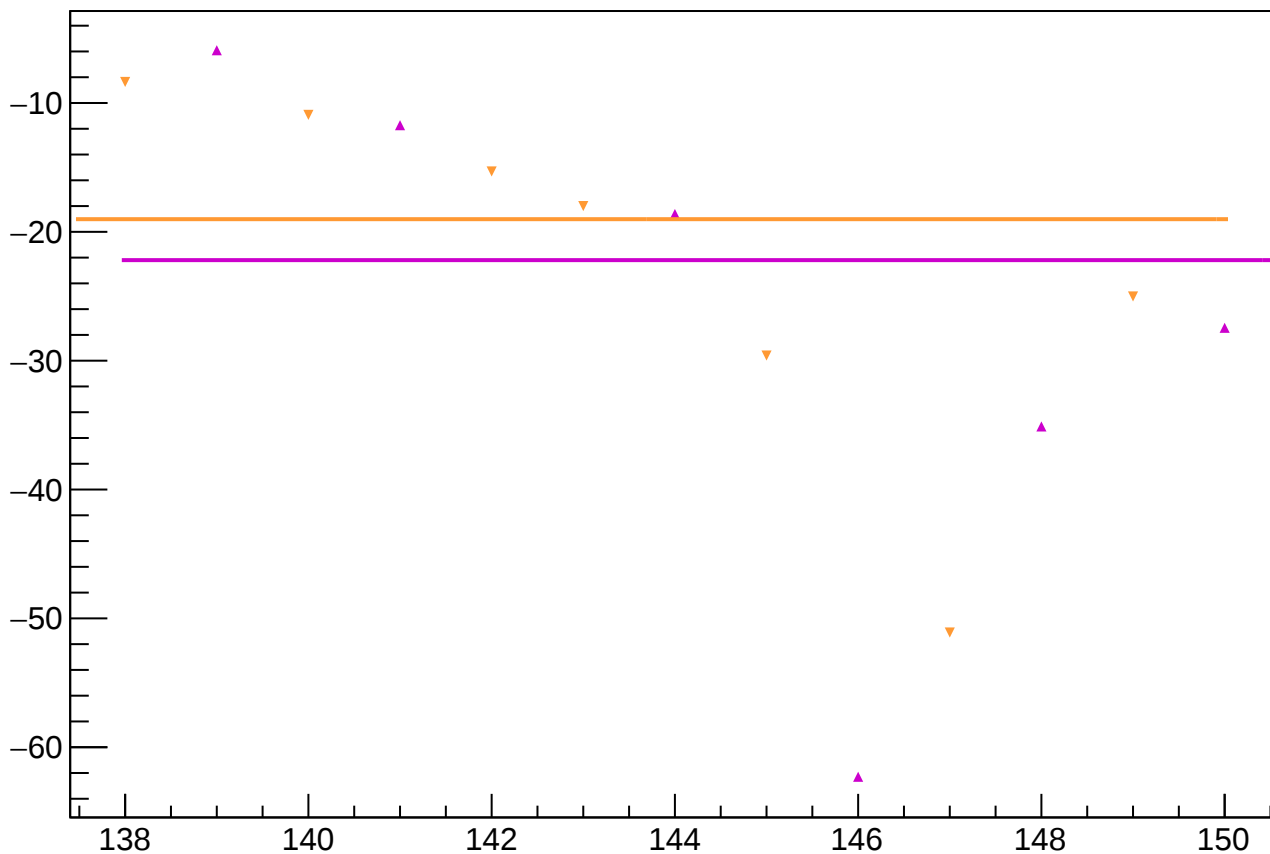
Right:  $9.008 \pm 0.022$   $\chi^2/\text{NDF}: 923283.8/34$

In:  $-3.080 \pm 0.019$   $\chi^2/\text{NDF}: 712391.6/22$

Out:  $-2.330 \pm 0.020$   $\chi^2/\text{NDF}: 1117107.2/24$

All:  $-2.728 \pm 0.014$   $\chi^2/\text{NDF}: 1830237.2/47$

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: -19.017+/-0.102  $\chi^2/\text{NDF}$ :14300.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.196+/-0.102  $\chi^2/\text{NDF}$ :27801.2/5

Left: -20.606+/-0.072  $\chi^2/\text{NDF}$ : 42585.9/12

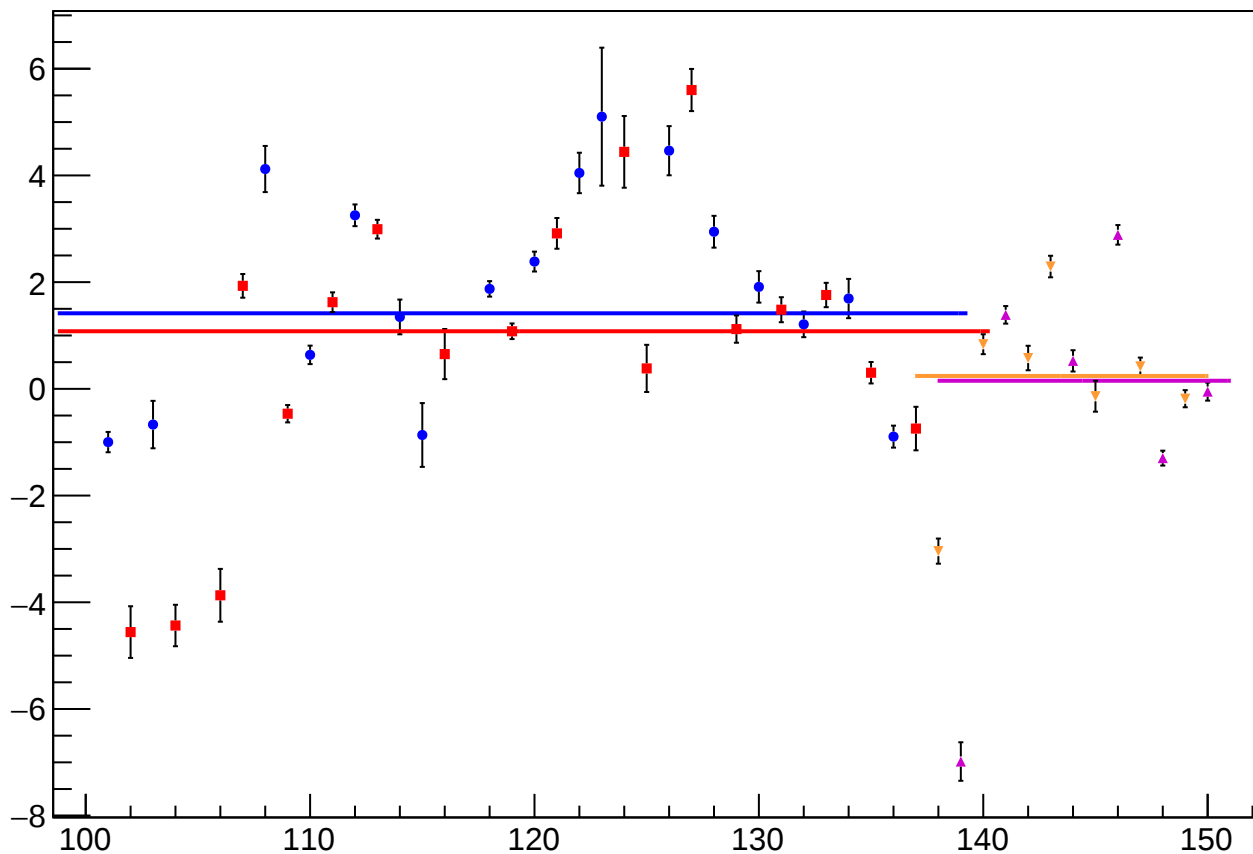
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.196+/-0.102  $\chi^2/\text{NDF}$ :27801.2/5

Out: -19.017+/-0.102  $\chi^2/\text{NDF}$ :14300.5/6

All: -20.606+/-0.072  $\chi^2/\text{NDF}$ : 42585.9/12

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: 0.242 $\pm$ 0.075  $\chi^2$ /NDF:319.7/6

Right Out: 1.080 $\pm$ 0.058  $\chi^2$ /NDF: 916.1/17

Left In: 0.152 $\pm$ 0.073  $\chi^2$ /NDF:781.7/5

Left: 0.196 $\pm$ 0.052  $\chi^2$ /NDF: 1102.1/12

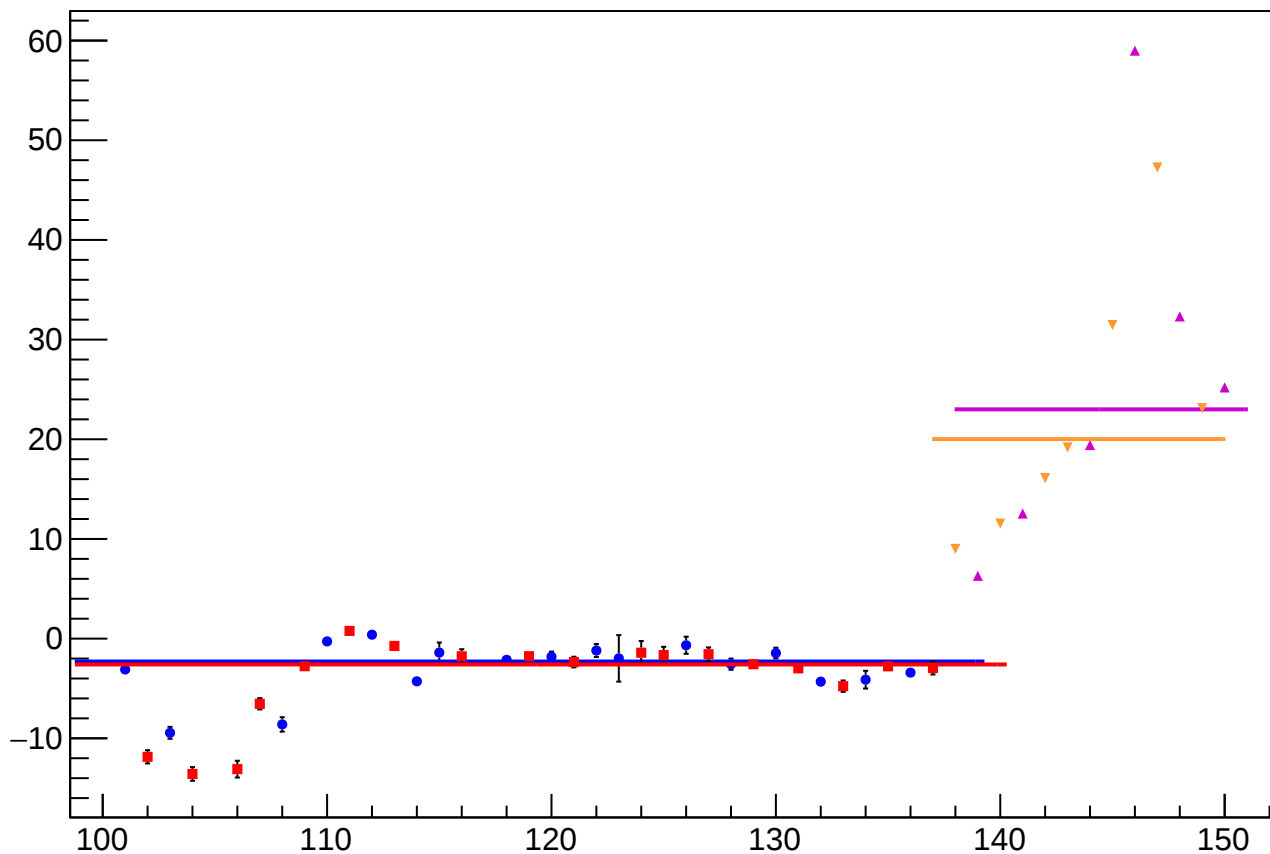
Right: 1.239 $\pm$ 0.042  $\chi^2$ /NDF: 1563.2/34

In: 0.898 $\pm$ 0.047  $\chi^2$ /NDF:1587.9/22

Out: 0.765 $\pm$ 0.046  $\chi^2$ /NDF:1313.8/24

All: 0.830 $\pm$ 0.033  $\chi^2$ /NDF: 2905.8/47

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:  $20.017 \pm 0.105$   $\chi^2/\text{NDF}$ : 12139.8/6

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

Left In:  $23.002 \pm 0.103$   $\chi^2/\text{NDF}$ : 23713.9/5

Left:  $21.536 \pm 0.074$   $\chi^2/\text{NDF}$ : 36262.7/12

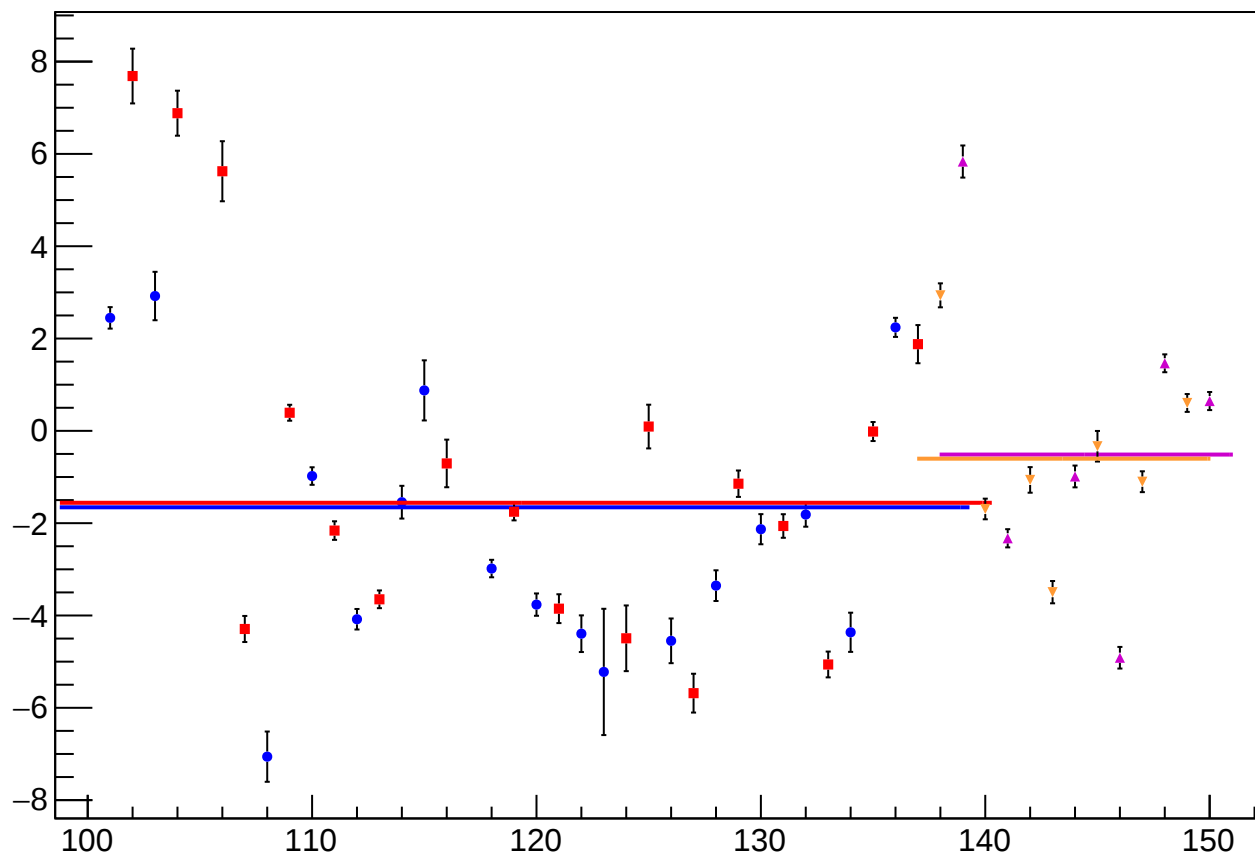
Right:  $-2.463 \pm 0.074$   $\chi^2/\text{NDF}$ : 1333.6/34

In:  $11.218 \pm 0.076$   $\chi^2/\text{NDF}$ : 51993.8/22

Out:  $8.046 \pm 0.072$   $\chi^2/\text{NDF}$ : 37442.4/24

All:  $9.559 \pm 0.052$   $\chi^2/\text{NDF}$ : 90356.1/47

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:  $-0.603 \pm 0.091$   $\chi^2/\text{NDF}$ : 400.0/6

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

Left In:  $-0.514 \pm 0.090$   $\chi^2/\text{NDF}$ : 913.7/5

Left:  $-0.558 \pm 0.064$   $\chi^2/\text{NDF}$ : 1314.2/12

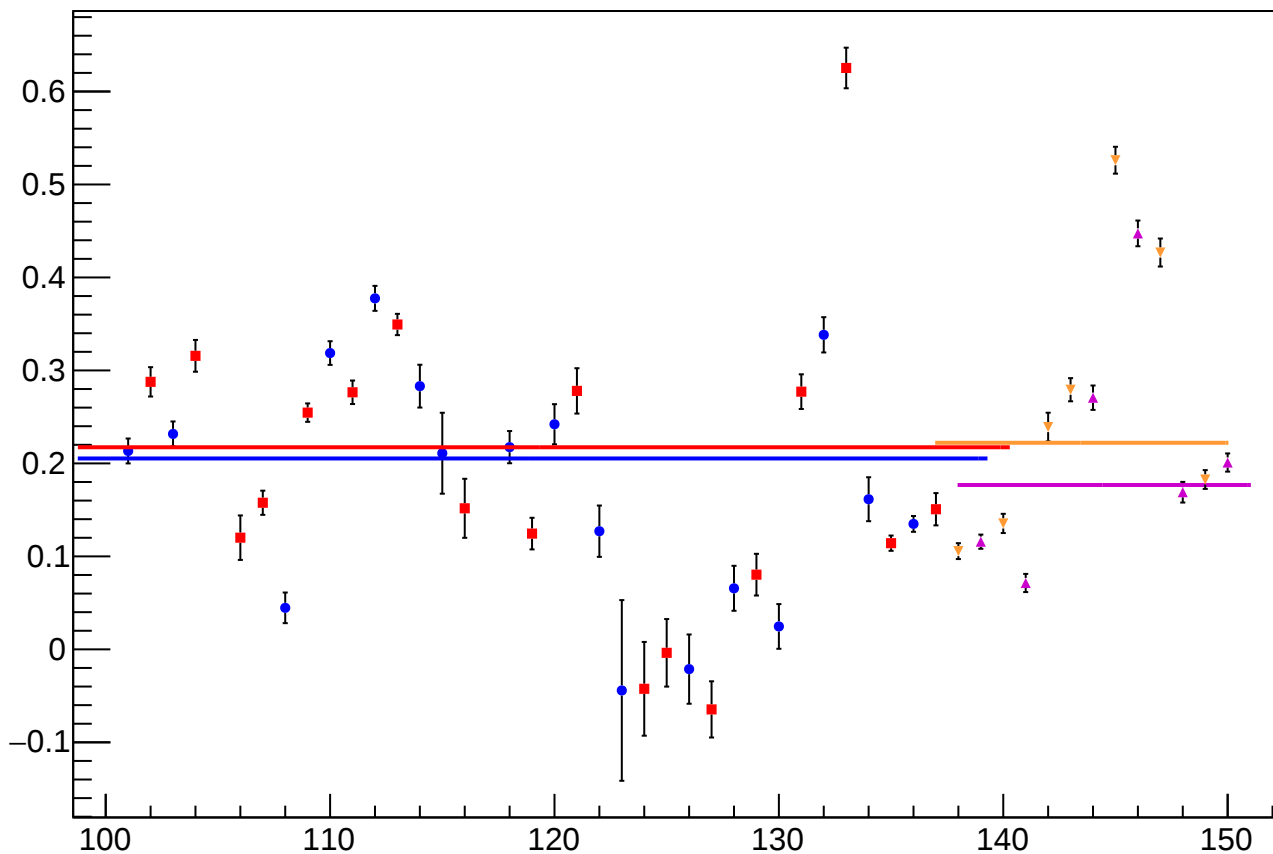
Right:  $-1.604 \pm 0.048$   $\chi^2/\text{NDF}$ : 2756.9/34

In:  $-1.224 \pm 0.056$   $\chi^2/\text{NDF}$ : 2284.5/22

Out:  $-1.231 \pm 0.053$   $\chi^2/\text{NDF}$ : 1957.0/24

All:  $-1.228 \pm 0.038$   $\chi^2/\text{NDF}$ : 4241.5/47

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:  $0.222 \pm 0.004$   $\chi^2/\text{NDF}$ : 920.8/6

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

Left In:  $0.177 \pm 0.004$   $\chi^2/\text{NDF}$ : 621.2/5

Left:  $0.199 \pm 0.003$   $\chi^2/\text{NDF}$ : 1598.6/12

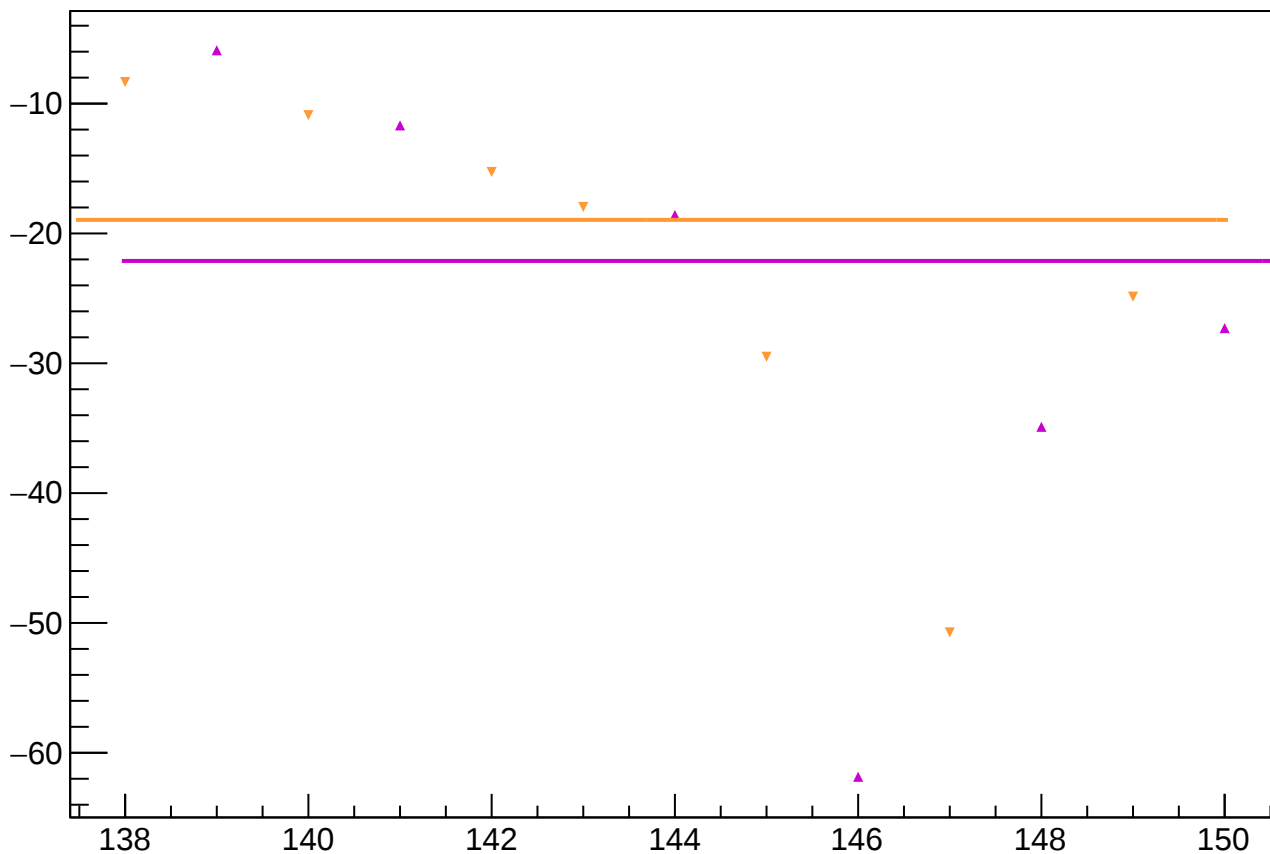
Right:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 1644.6/34

In:  $0.191 \pm 0.003$   $\chi^2/\text{NDF}$ : 1265.2/22

Out:  $0.219 \pm 0.003$   $\chi^2/\text{NDF}$ : 1940.9/24

All:  $0.206 \pm 0.002$   $\chi^2/\text{NDF}$ : 3254.0/47

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: -18.954+/-0.102  $\chi^2/\text{NDF}$ :14267.1/6

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

Left In: -22.117+/-0.102  $\chi^2/\text{NDF}$ :27732.4/5

Left: -20.536+/-0.072  $\chi^2/\text{NDF}$ : 42484.3/12

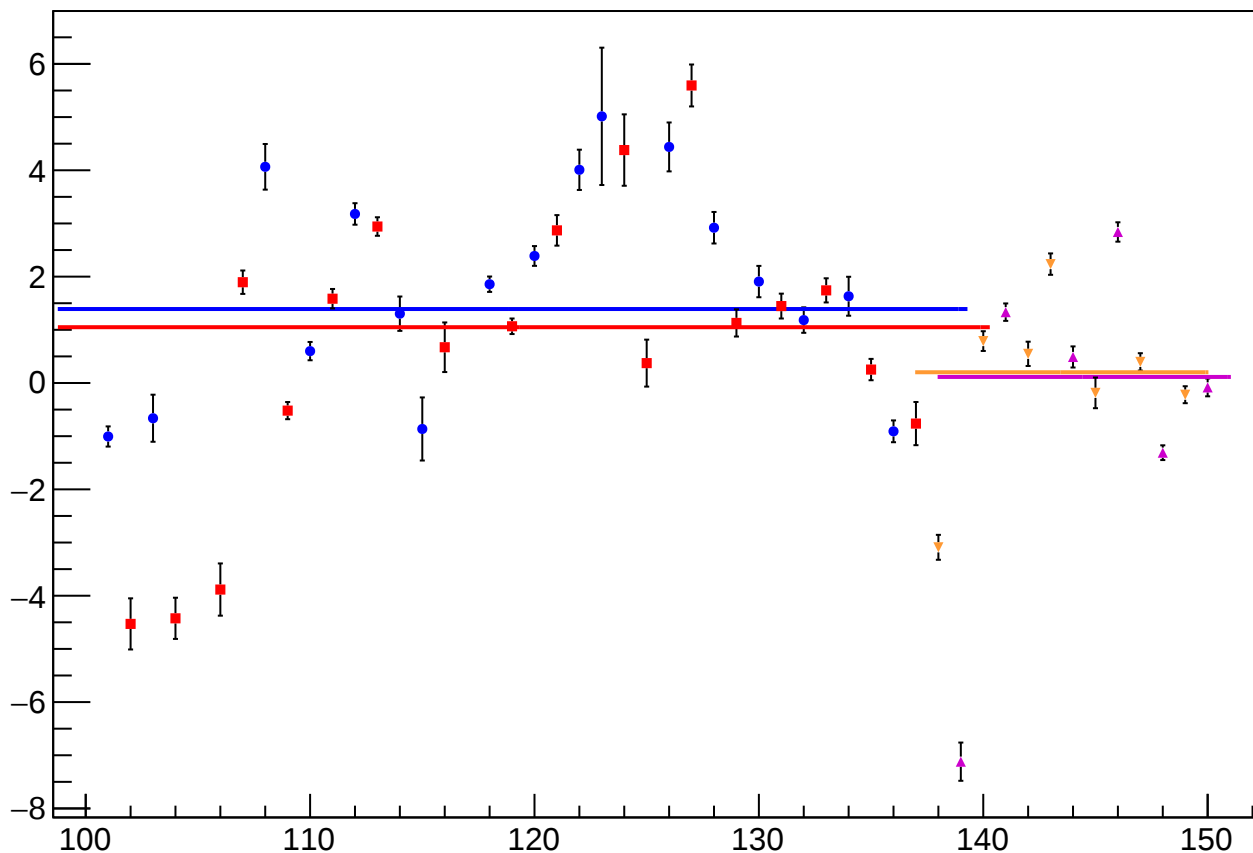
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.117+/-0.102  $\chi^2/\text{NDF}$ :27732.4/5

Out: -18.954+/-0.102  $\chi^2/\text{NDF}$ :14267.1/6

All: -20.536+/-0.072  $\chi^2/\text{NDF}$ : 42484.3/12

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:  $0.202 \pm 0.075$   $\chi^2/\text{NDF}: 321.9/6$

Right Out:  $1.049 \pm 0.058$   $\chi^2/\text{NDF}: 919.8/17$

Left In:  $0.114 \pm 0.073$   $\chi^2/\text{NDF}: 794.6/5$

Left:  $0.157 \pm 0.052$   $\chi^2/\text{NDF}: 1117.2/12$

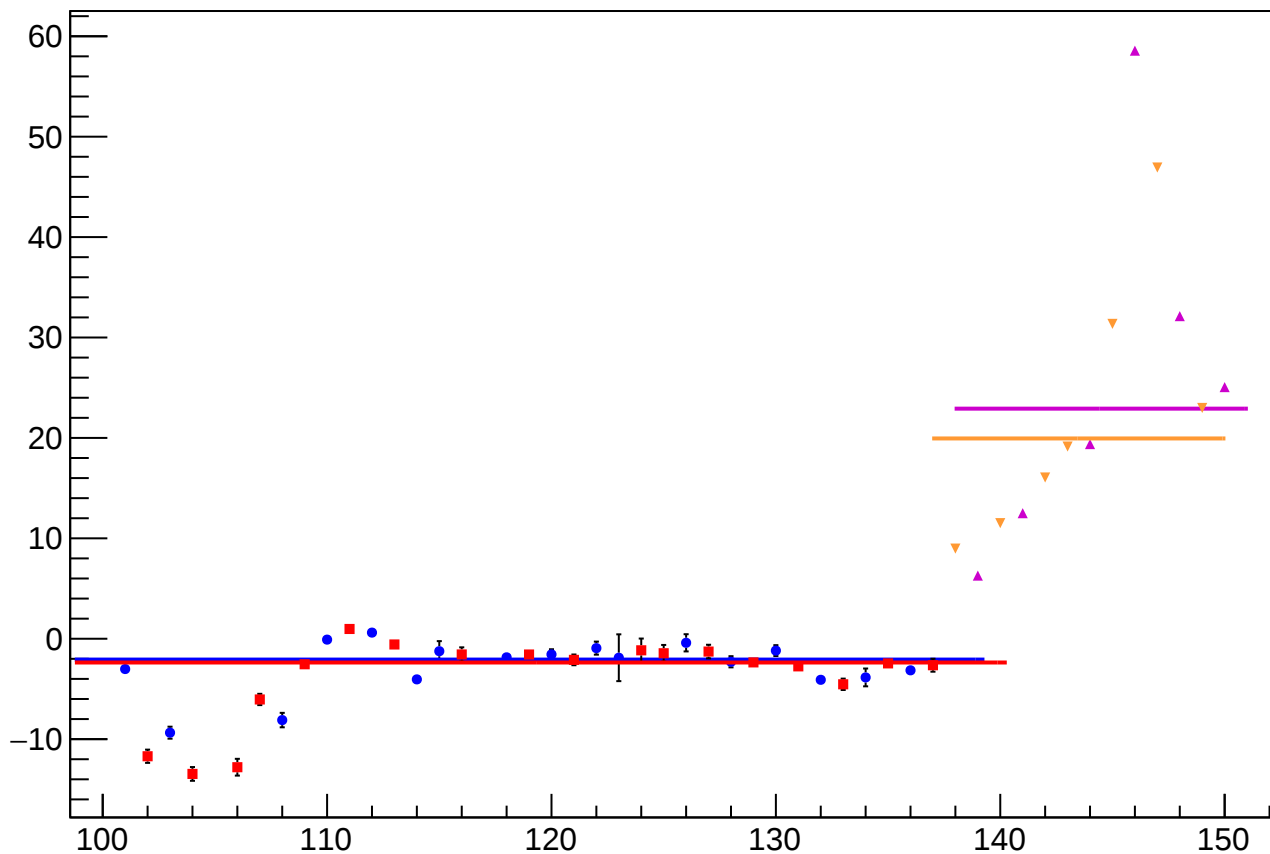
Right:  $1.211 \pm 0.042$   $\chi^2/\text{NDF}: 1565.5/34$

In:  $0.866 \pm 0.047$   $\chi^2/\text{NDF}: 1604.4/22$

Out:  $0.730 \pm 0.046$   $\chi^2/\text{NDF}: 1322.2/24$

All:  $0.797 \pm 0.033$   $\chi^2/\text{NDF}: 2930.9/47$

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:  $19.946 \pm 0.105$   $\chi^2/\text{NDF}$ : 12106.2/6

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

Left In:  $22.915 \pm 0.103$   $\chi^2/\text{NDF}$ : 23644.3/5

Left:  $21.457 \pm 0.073$   $\chi^2/\text{NDF}$ : 36159.2/12

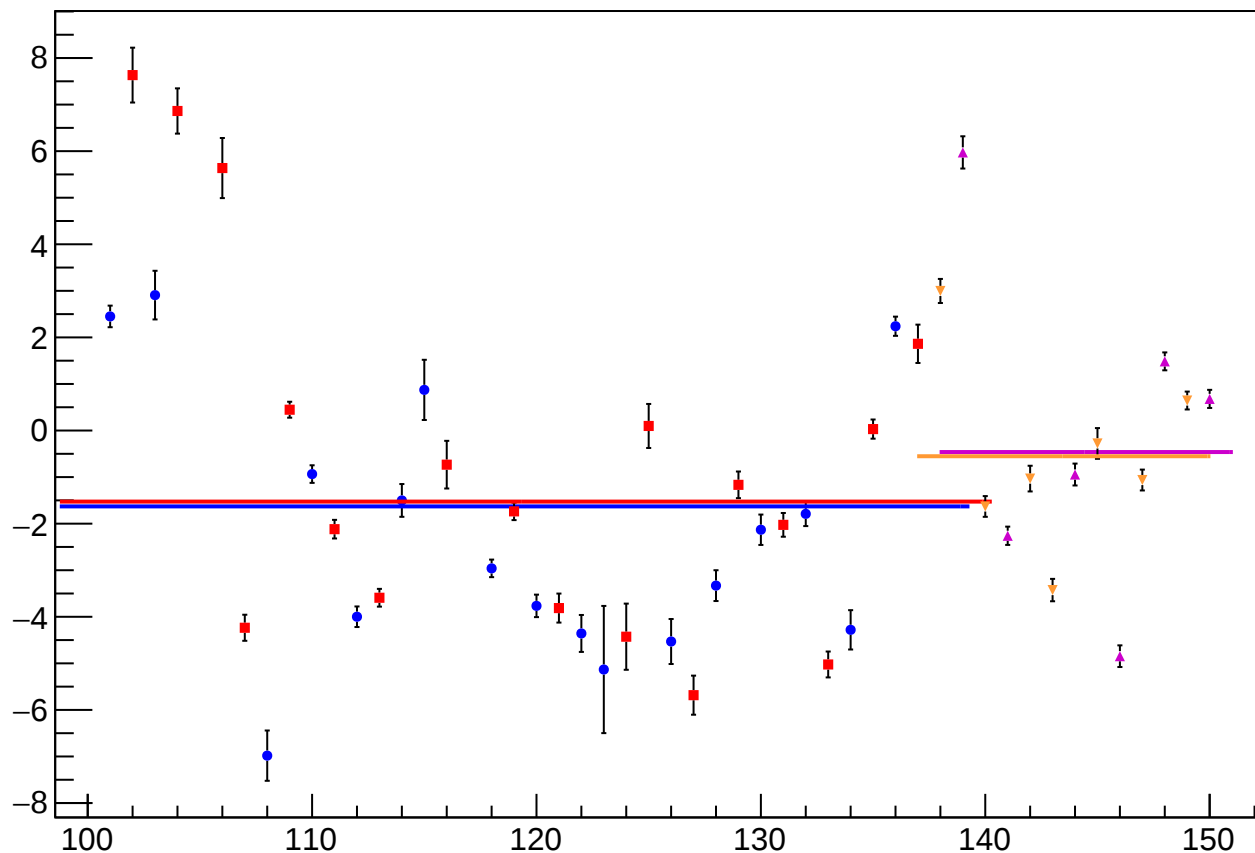
Right:  $-2.237 \pm 0.074$   $\chi^2/\text{NDF}$ : 1339.4/34

In:  $11.285 \pm 0.075$   $\chi^2/\text{NDF}$ : 51537.2/22

Out:  $8.133 \pm 0.072$   $\chi^2/\text{NDF}$ : 37026.9/24

All:  $9.637 \pm 0.052$   $\chi^2/\text{NDF}$ : 89481.9/47

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:  $-0.552 \pm 0.091$   $\chi^2/\text{NDF}$ : 402.4/6

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

Left In:  $-0.462 \pm 0.090$   $\chi^2/\text{NDF}$ : 925.5/5

Left:  $-0.507 \pm 0.064$   $\chi^2/\text{NDF}$ : 1328.4/12

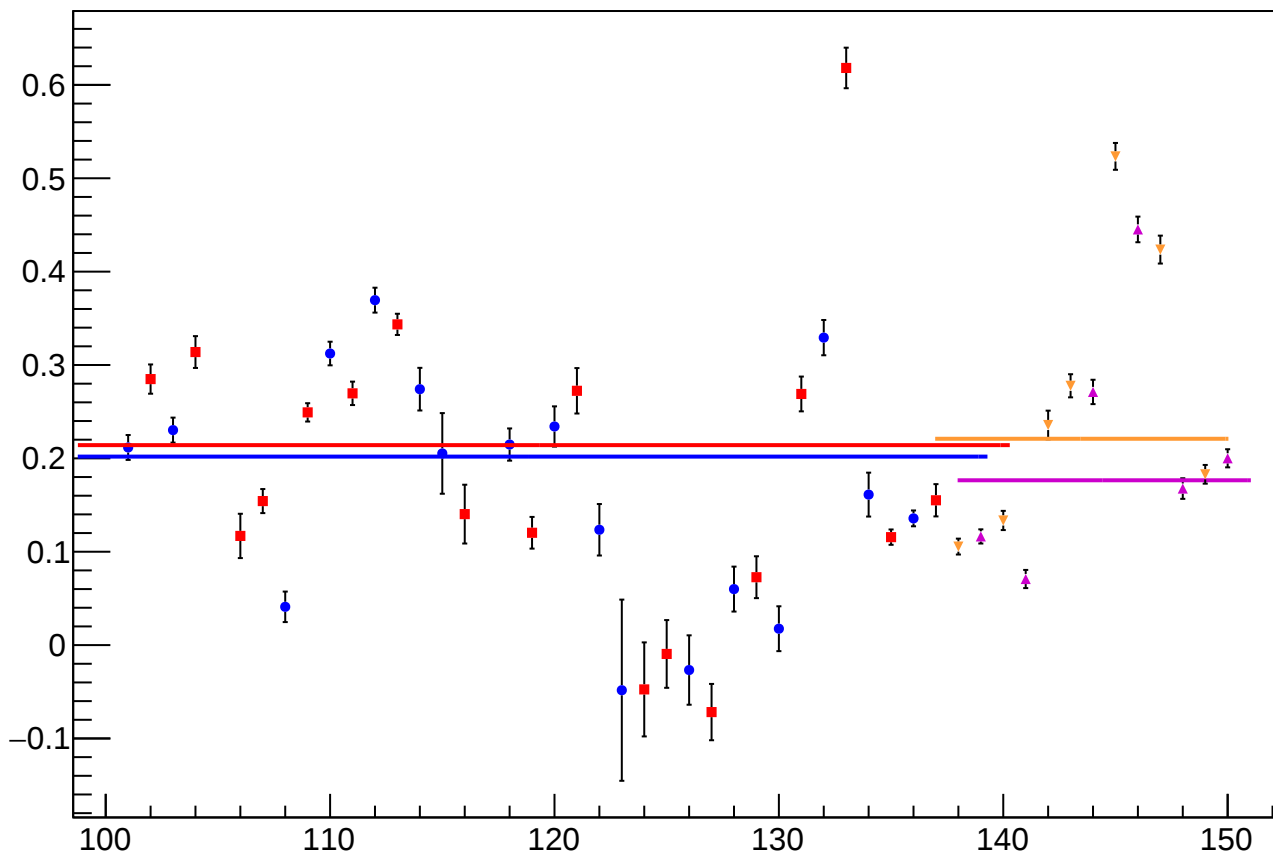
Right:  $-1.574 \pm 0.048$   $\chi^2/\text{NDF}$ : 2755.7/34

In:  $-1.186 \pm 0.055$   $\chi^2/\text{NDF}$ : 2297.0/22

Out:  $-1.192 \pm 0.053$   $\chi^2/\text{NDF}$ : 1966.6/24

All:  $-1.190 \pm 0.038$   $\chi^2/\text{NDF}$ : 4263.6/47

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.202 $\pm$ 0.004  $\chi^2$ /NDF: 604.6/16

Left Out: 0.221 $\pm$ 0.004  $\chi^2$ /NDF:918.8/6

Right Out: 0.214 $\pm$ 0.004  $\chi^2$ /NDF: 1001.6/17

Left In: 0.177 $\pm$ 0.004  $\chi^2$ /NDF:623.2/5

Left: 0.198 $\pm$ 0.003  $\chi^2$ /NDF: 1596.9/12

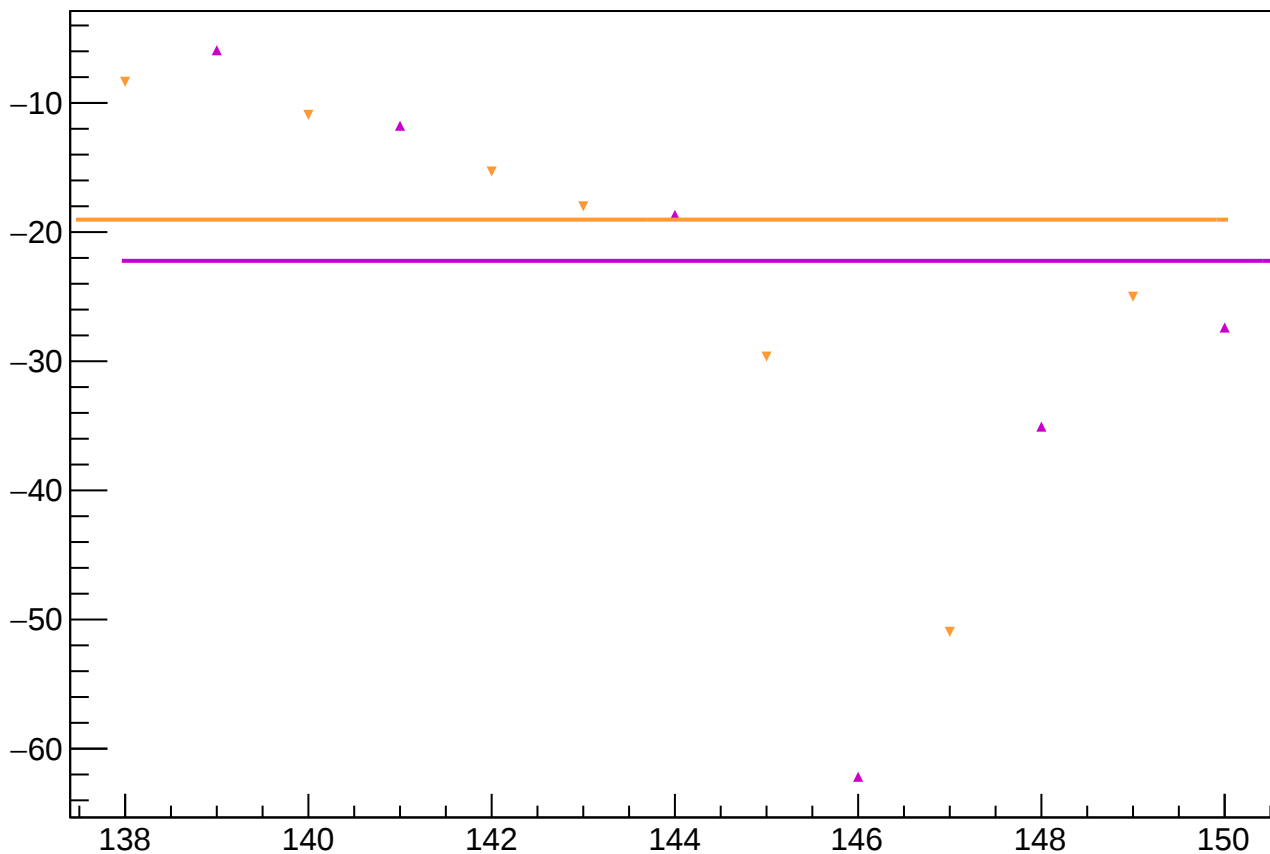
Right: 0.209 $\pm$ 0.003  $\chi^2$ /NDF: 1611.2/34

In: 0.189 $\pm$ 0.003  $\chi^2$ /NDF:1246.6/22

Out: 0.217 $\pm$ 0.003  $\chi^2$ /NDF:1921.8/24

All: 0.204 $\pm$ 0.002  $\chi^2$ /NDF: 3215.2/47

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: -19.034+/-0.102  $\chi^2/\text{NDF}$ :14282.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.225+/-0.102  $\chi^2/\text{NDF}$ :27757.1/5

Left: -20.629+/-0.072  $\chi^2/\text{NDF}$ : 42528.5/12

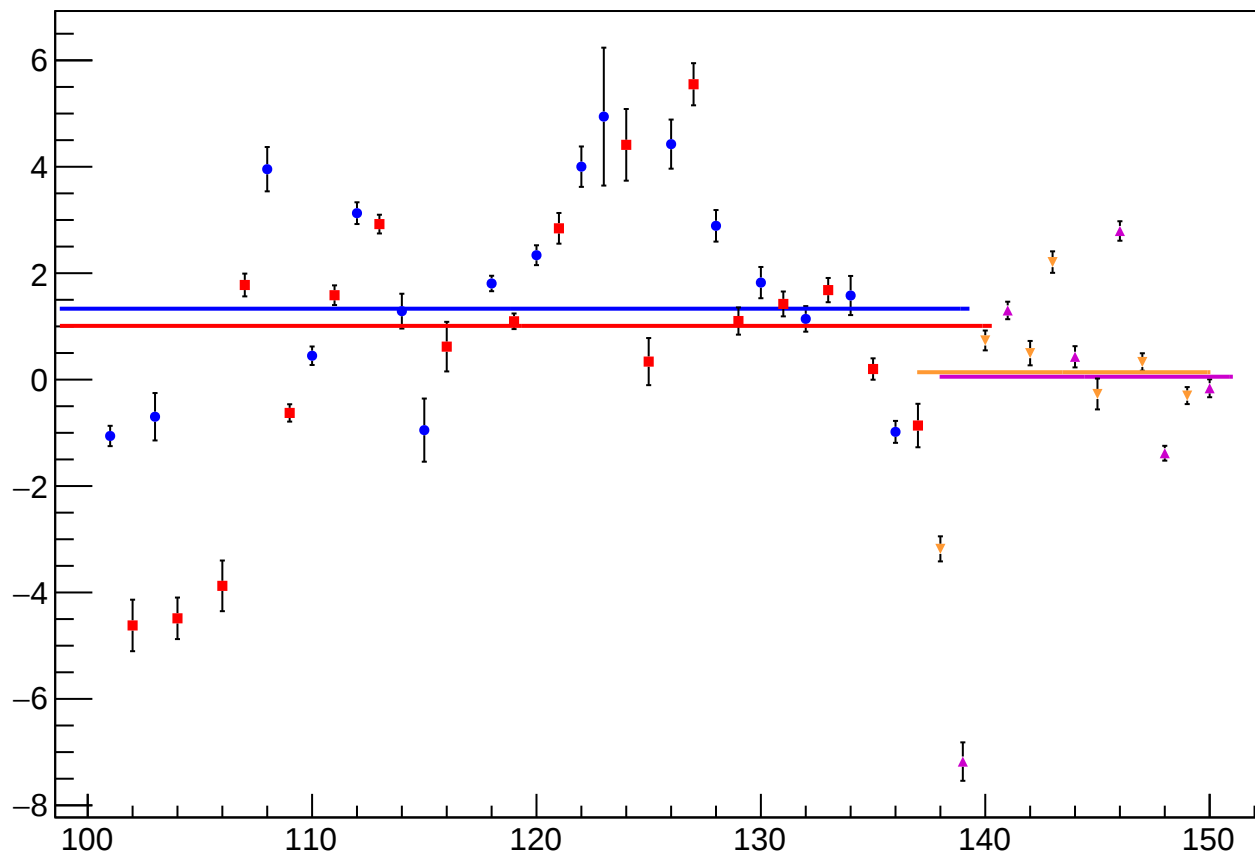
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.225+/-0.102  $\chi^2/\text{NDF}$ :27757.1/5

Out: -19.034+/-0.102  $\chi^2/\text{NDF}$ :14282.1/6

All: -20.629+/-0.072  $\chi^2/\text{NDF}$ : 42528.5/12

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:  $0.139 \pm 0.075$   $\chi^2/\text{NDF}: 327.3/6$

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}: 930.3/17$

Left In:  $0.054 \pm 0.073$   $\chi^2/\text{NDF}: 793.9/5$

Left:  $0.096 \pm 0.052$   $\chi^2/\text{NDF}: 1121.9/12$

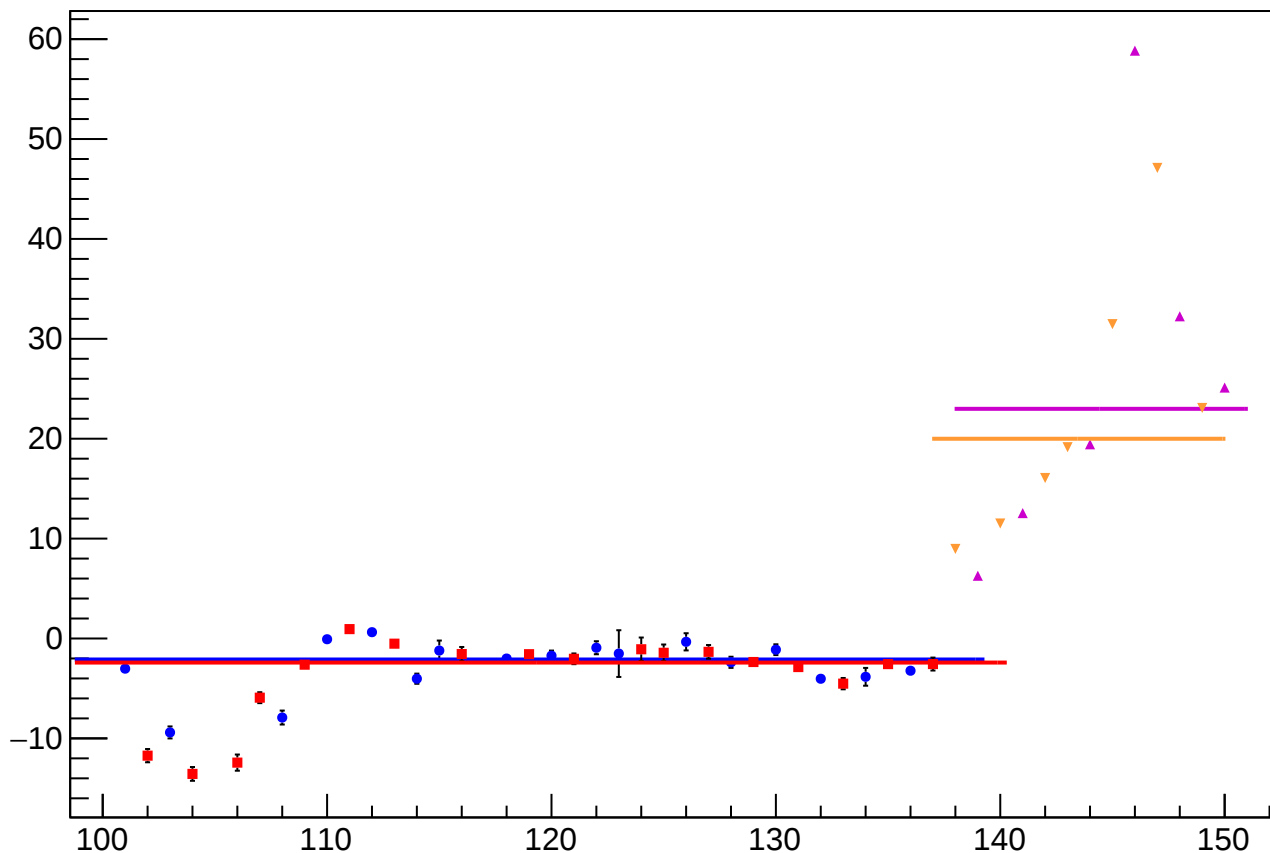
Right:  $1.163 \pm 0.042$   $\chi^2/\text{NDF}: 1579.5/34$

In:  $0.807 \pm 0.047$   $\chi^2/\text{NDF}: 1607.9/22$

Out:  $0.683 \pm 0.046$   $\chi^2/\text{NDF}: 1342.1/24$

All:  $0.744 \pm 0.033$   $\chi^2/\text{NDF}: 2953.6/47$

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:  $19.996 \pm 0.105$   $\chi^2/\text{NDF}$ : 12119.2/6

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

Left In:  $22.991 \pm 0.103$   $\chi^2/\text{NDF}$ : 23674.7/5

Left:  $21.520 \pm 0.074$   $\chi^2/\text{NDF}$ : 36206.6/12

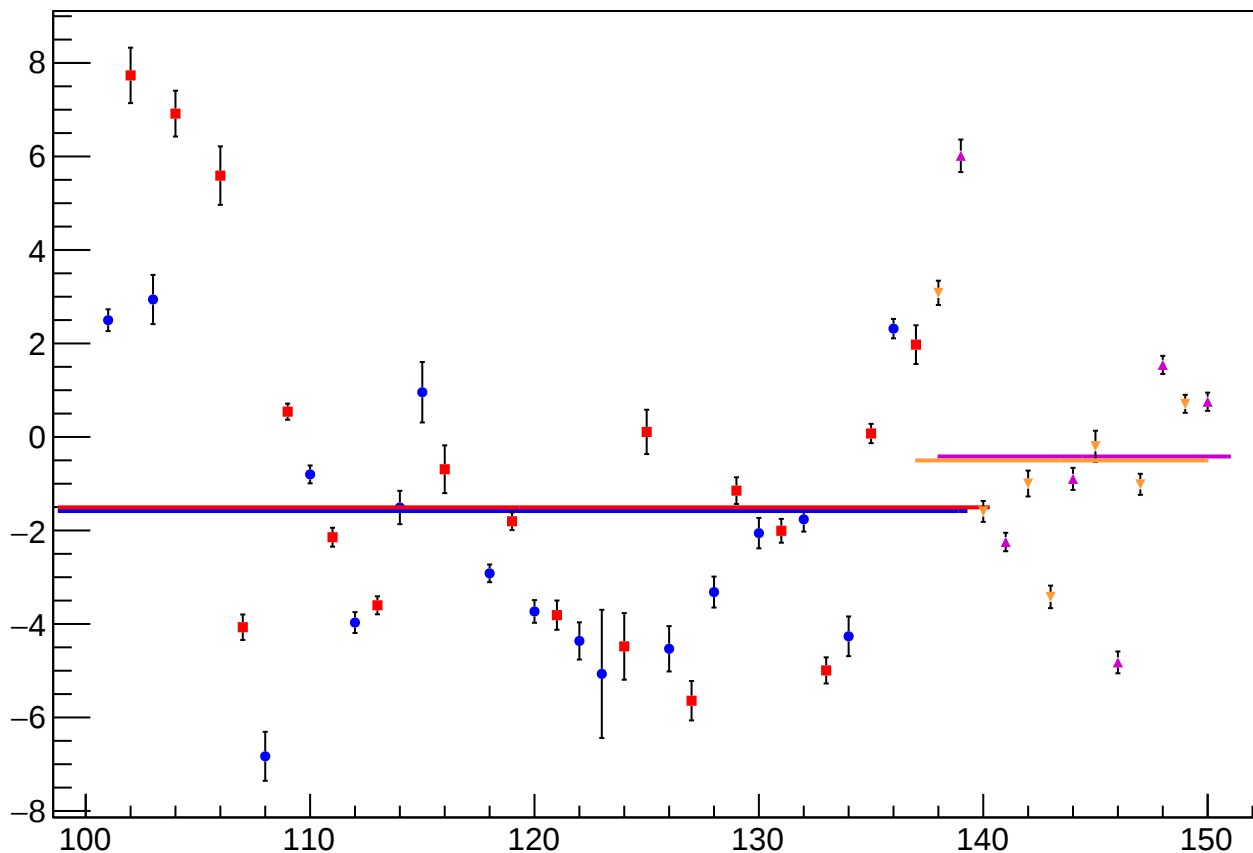
Right:  $-2.274 \pm 0.074$   $\chi^2/\text{NDF}$ : 1331.4/34

In:  $11.325 \pm 0.076$   $\chi^2/\text{NDF}$ : 51527.8/22

Out:  $8.142 \pm 0.072$   $\chi^2/\text{NDF}$ : 37015.6/24

All:  $9.660 \pm 0.052$   $\chi^2/\text{NDF}$ : 89470.9/47

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:  $-0.502 \pm 0.091$   $\chi^2/\text{NDF}$ : 409.1/6

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

Left In:  $-0.418 \pm 0.090$   $\chi^2/\text{NDF}$ : 925.8/5

Left:  $-0.460 \pm 0.064$   $\chi^2/\text{NDF}$ : 1335.4/12

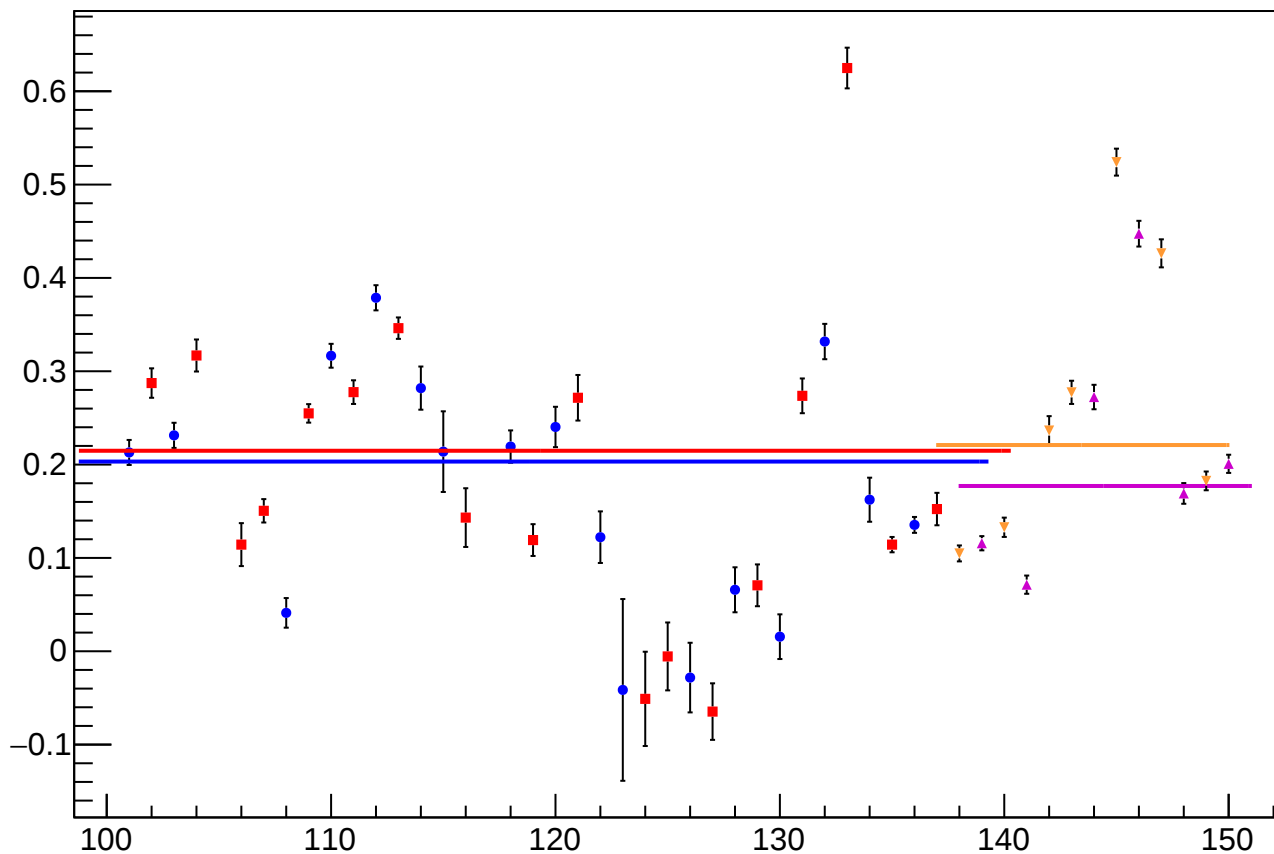
Right:  $-1.542 \pm 0.048$   $\chi^2/\text{NDF}$ : 2772.7/34

In:  $-1.141 \pm 0.055$   $\chi^2/\text{NDF}$ : 2302.0/22

Out:  $-1.162 \pm 0.053$   $\chi^2/\text{NDF}$ : 1988.9/24

All:  $-1.152 \pm 0.038$   $\chi^2/\text{NDF}$ : 4291.0/47

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: 0.221 $\pm$ 0.004  $\chi^2$ /NDF:920.3/6

Right Out: 0.215 $\pm$ 0.004  $\chi^2$ /NDF: 1033.0/17

Left In: 0.177 $\pm$ 0.004  $\chi^2$ /NDF:625.5/5

Left: 0.198 $\pm$ 0.003  $\chi^2$ /NDF: 1598.8/12

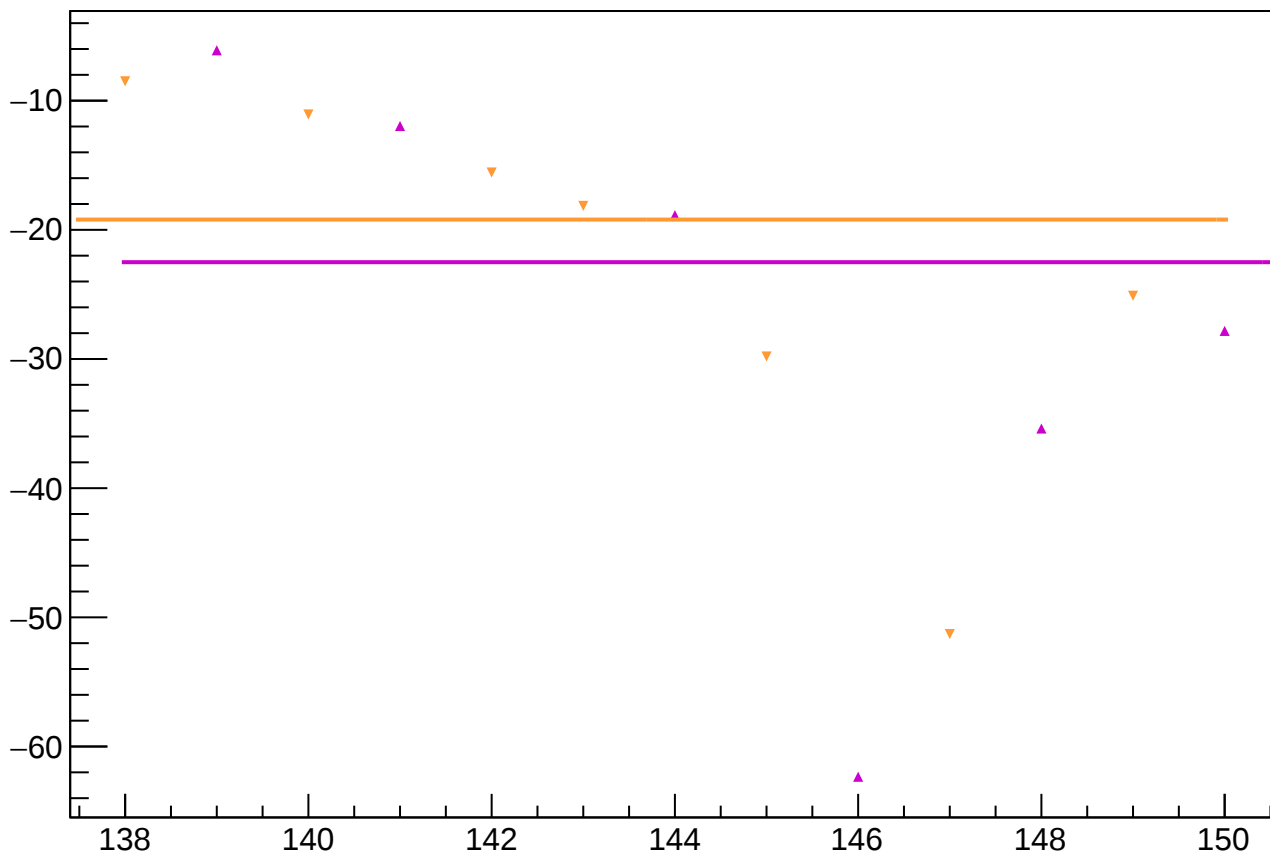
Right: 0.210 $\pm$ 0.003  $\chi^2$ /NDF: 1670.1/34

In: 0.190 $\pm$ 0.003  $\chi^2$ /NDF:1278.1/22

Out: 0.217 $\pm$ 0.003  $\chi^2$ /NDF:1954.5/24

All: 0.204 $\pm$ 0.002  $\chi^2$ /NDF: 3276.9/47

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: -19.205+/-0.103  $\chi^2/\text{NDF}$ :14136.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.504+/-0.103  $\chi^2/\text{NDF}$ :27383.4/5

Left: -20.852+/-0.073  $\chi^2/\text{NDF}$ : 42032.5/12

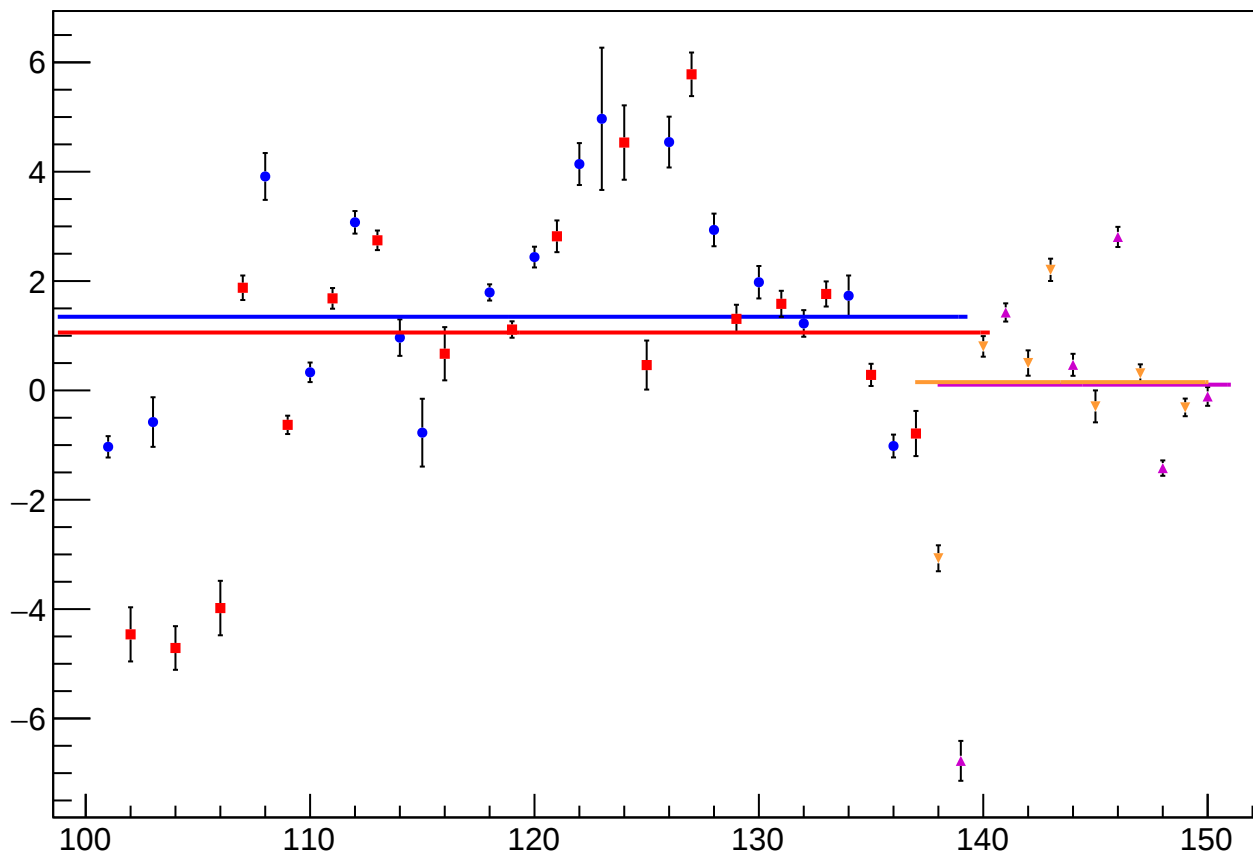
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.504+/-0.103  $\chi^2/\text{NDF}$ :27383.4/5

Out: -19.205+/-0.103  $\chi^2/\text{NDF}$ :14136.8/6

All: -20.852+/-0.073  $\chi^2/\text{NDF}$ : 42032.5/12

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.347 $\pm$ 0.062  $\chi^2$ /NDF: 630.1/16

Left Out: 0.152 $\pm$ 0.076  $\chi^2$ /NDF:311.1/6

Right Out: 1.059 $\pm$ 0.059  $\chi^2$ /NDF: 905.3/17

Left In: 0.105 $\pm$ 0.074  $\chi^2$ /NDF:755.9/5

Left: 0.128 $\pm$ 0.053  $\chi^2$ /NDF: 1067.2/12

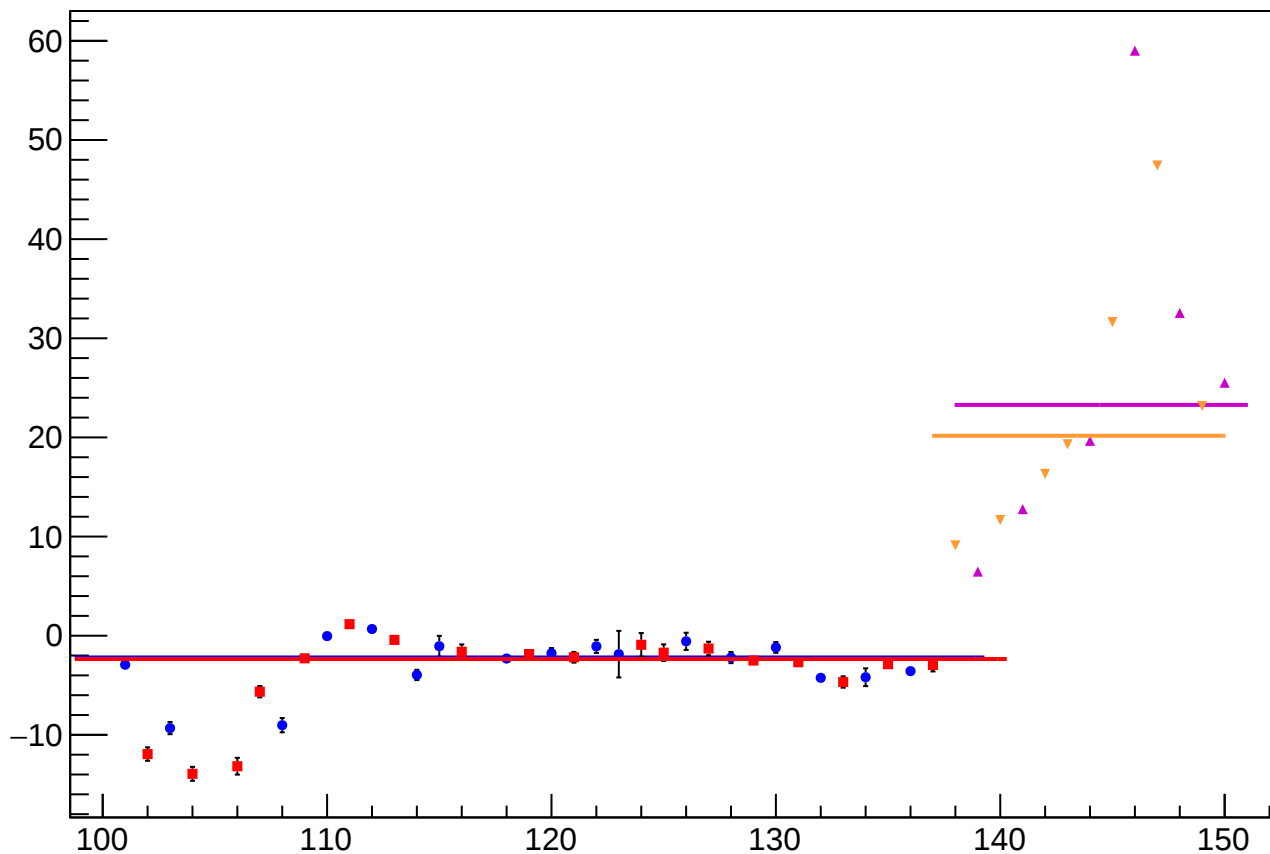
Right: 1.196 $\pm$ 0.043  $\chi^2$ /NDF: 1546.6/34

In: 0.832 $\pm$ 0.048  $\chi^2$ /NDF:1550.8/22

Out: 0.713 $\pm$ 0.047  $\chi^2$ /NDF:1305.6/24

All: 0.771 $\pm$ 0.033  $\chi^2$ /NDF: 2859.6/47

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:  $20.169 \pm 0.106$   $\chi^2/\text{NDF}: 11994.9/6$

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$

Left In:  $23.280 \pm 0.104$   $\chi^2/\text{NDF}: 23320.6/5$

Left:  $21.749 \pm 0.074$   $\chi^2/\text{NDF}: 35751.8/12$

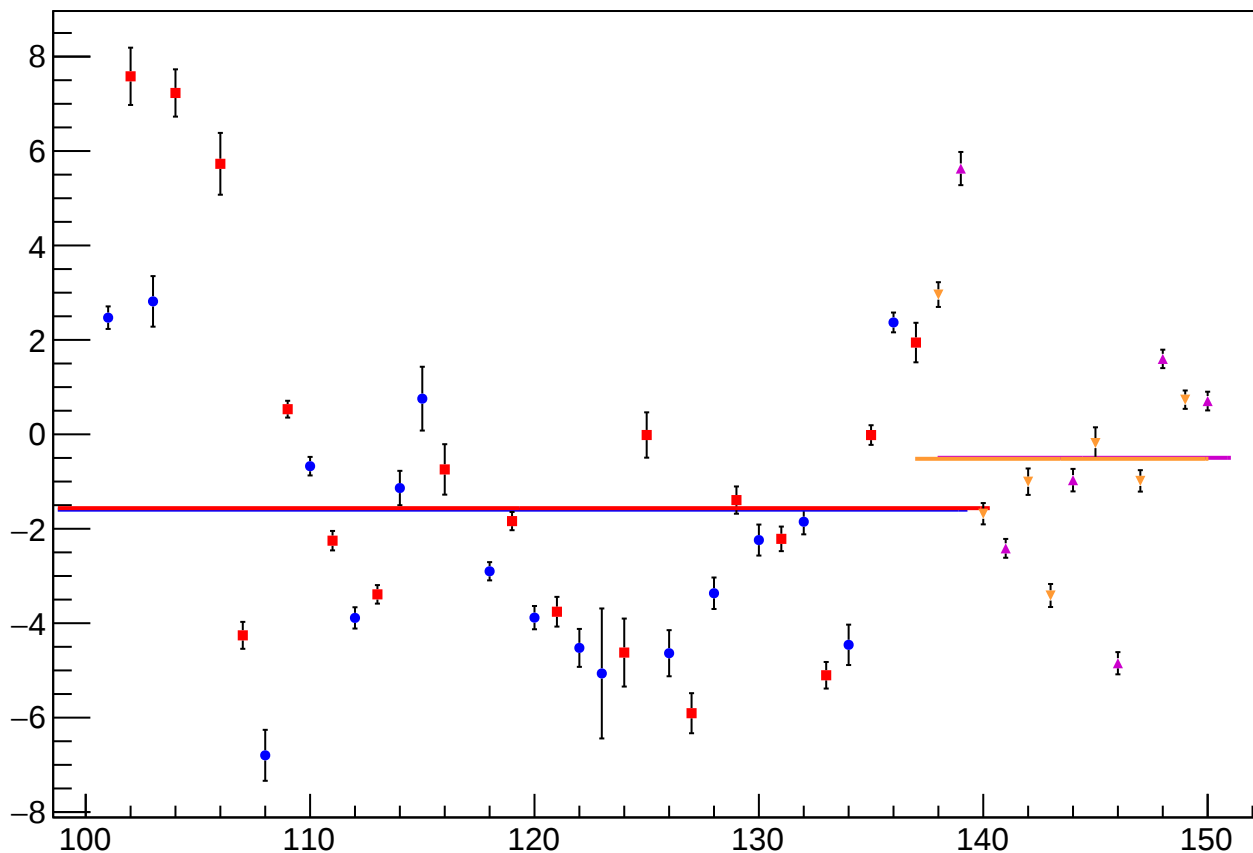
Right:  $-2.280 \pm 0.075$   $\chi^2/\text{NDF}: 1373.0/34$

In:  $11.523 \pm 0.077$   $\chi^2/\text{NDF}: 51220.6/22$

Out:  $8.389 \pm 0.073$   $\chi^2/\text{NDF}: 36451.4/24$

All:  $9.886 \pm 0.053$   $\chi^2/\text{NDF}: 88544.8/47$

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:  $-0.518 \pm 0.092$   $\chi^2/\text{NDF}$ : 393.3/6

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

Left In:  $-0.497 \pm 0.091$   $\chi^2/\text{NDF}$ : 893.8/5

Left:  $-0.508 \pm 0.065$   $\chi^2/\text{NDF}$ : 1287.2/12

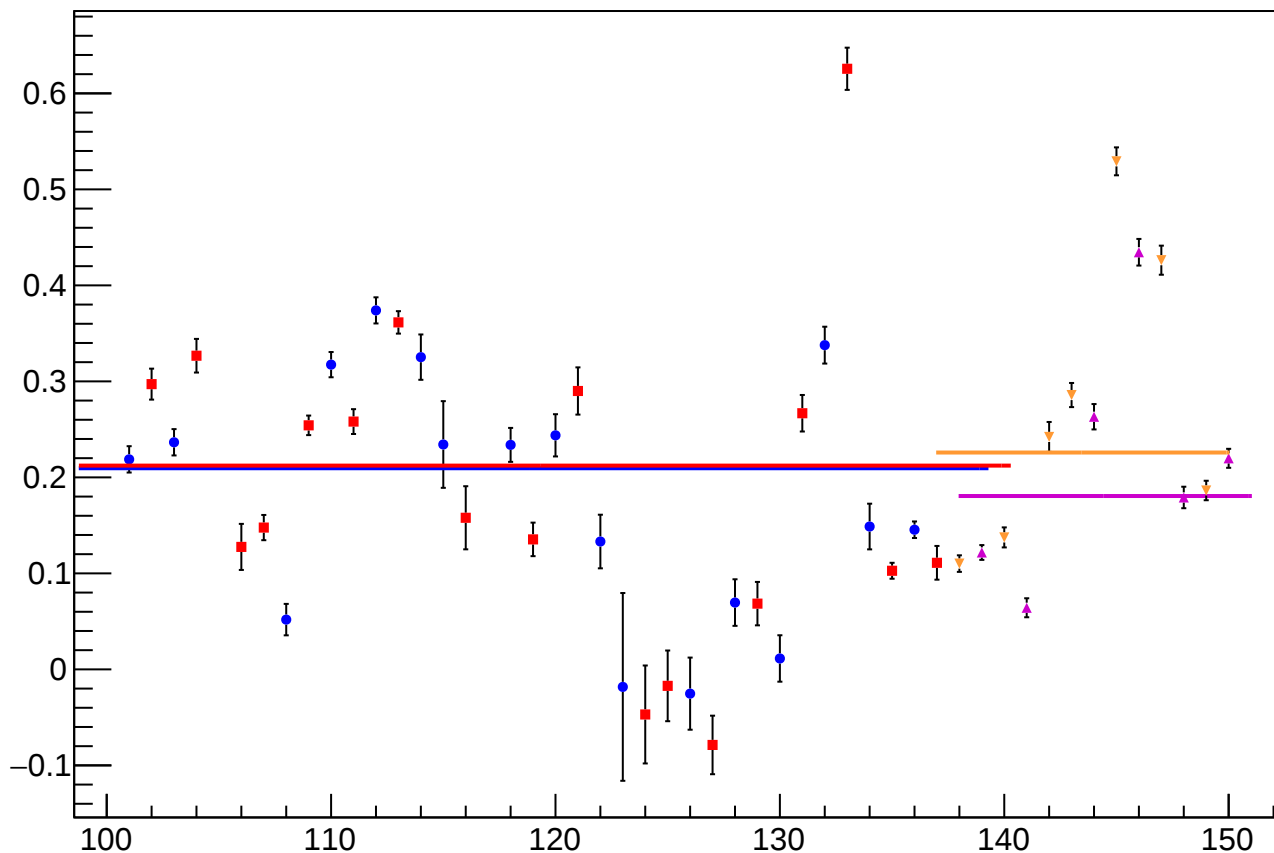
Right:  $-1.578 \pm 0.049$   $\chi^2/\text{NDF}$ : 2717.4/34

In:  $-1.175 \pm 0.056$   $\chi^2/\text{NDF}$ : 2239.0/22

Out:  $-1.201 \pm 0.054$   $\chi^2/\text{NDF}$ : 1939.8/24

All:  $-1.188 \pm 0.039$   $\chi^2/\text{NDF}$ : 4179.0/47

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: 0.226 $\pm$ 0.004  $\chi^2$ /NDF:900.5/6

Right Out: 0.212 $\pm$ 0.004  $\chi^2$ /NDF: 1096.9/17

Left In: 0.181 $\pm$ 0.004  $\chi^2$ /NDF:586.4/5

Left: 0.202 $\pm$ 0.003  $\chi^2$ /NDF: 1542.2/12

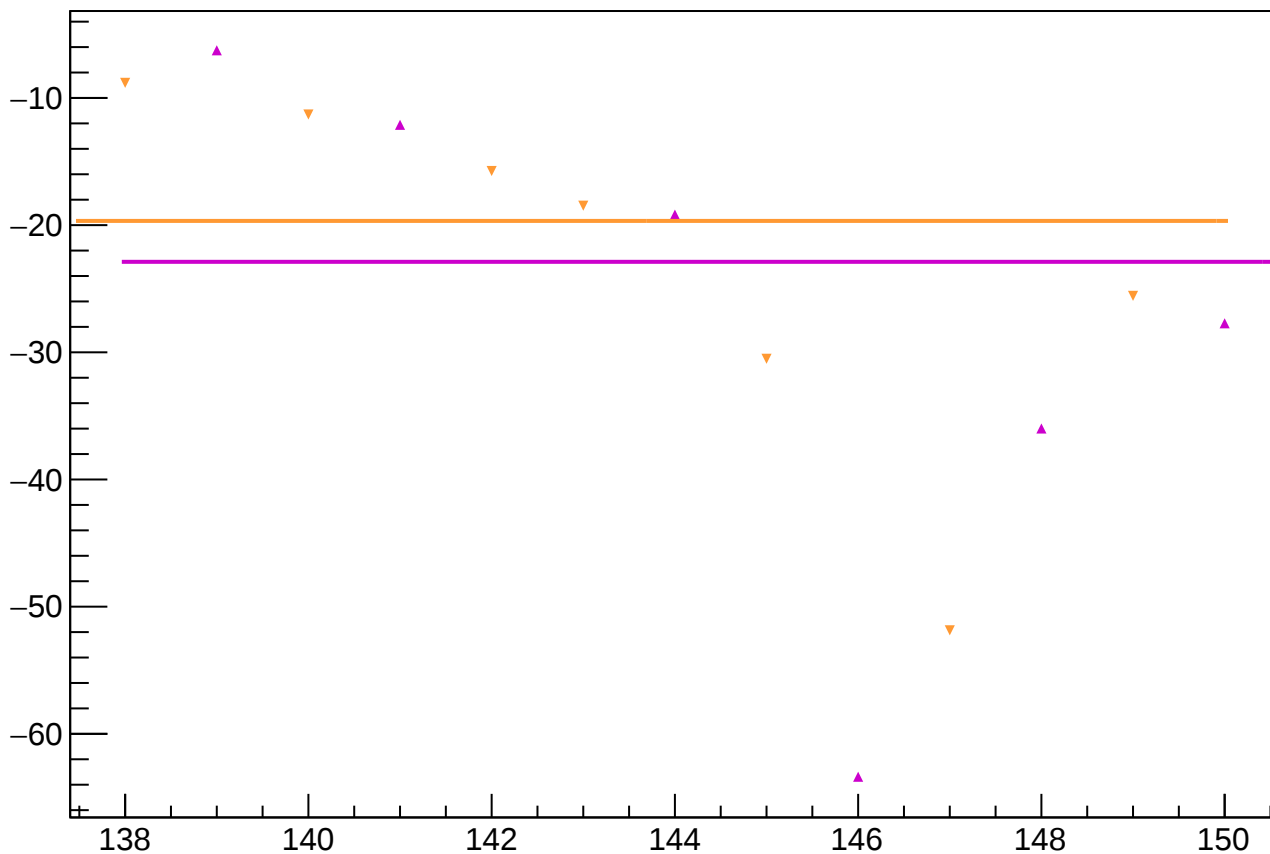
Right: 0.211 $\pm$ 0.003  $\chi^2$ /NDF: 1694.9/34

In: 0.195 $\pm$ 0.003  $\chi^2$ /NDF:1207.8/22

Out: 0.218 $\pm$ 0.003  $\chi^2$ /NDF:2002.9/24

All: 0.207 $\pm$ 0.002  $\chi^2$ /NDF: 3241.5/47

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: -19.668+/-0.105  $\chi^2/\text{NDF}$ :13917.1/6

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

Left In: -22.884+/-0.105  $\chi^2/\text{NDF}$ :27217.4/5

Left: -21.280+/-0.074  $\chi^2/\text{NDF}$ : 41604.6/12

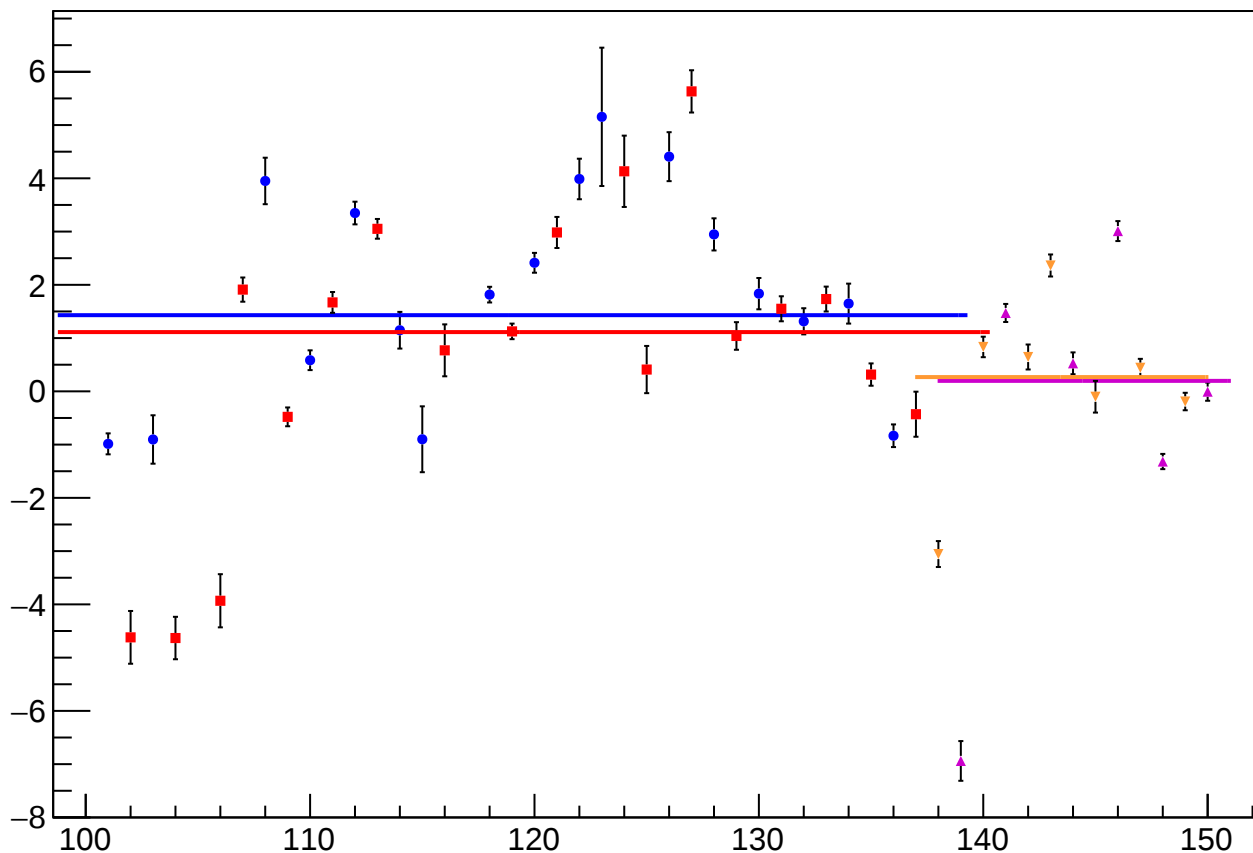
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.884+/-0.105  $\chi^2/\text{NDF}$ :27217.4/5

Out: -19.668+/-0.105  $\chi^2/\text{NDF}$ :13917.1/6

All: -21.280+/-0.074  $\chi^2/\text{NDF}$ : 41604.6/12

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.430 \pm 0.063$   $\chi^2/\text{NDF}: 598.0/16$

Left Out:  $0.268 \pm 0.077$   $\chi^2/\text{NDF}: 310.4/6$

Right Out:  $1.113 \pm 0.060$   $\chi^2/\text{NDF}: 887.6/17$

Left In:  $0.197 \pm 0.075$   $\chi^2/\text{NDF}: 764.1/5$

Left:  $0.231 \pm 0.054$   $\chi^2/\text{NDF}: 1074.9/12$

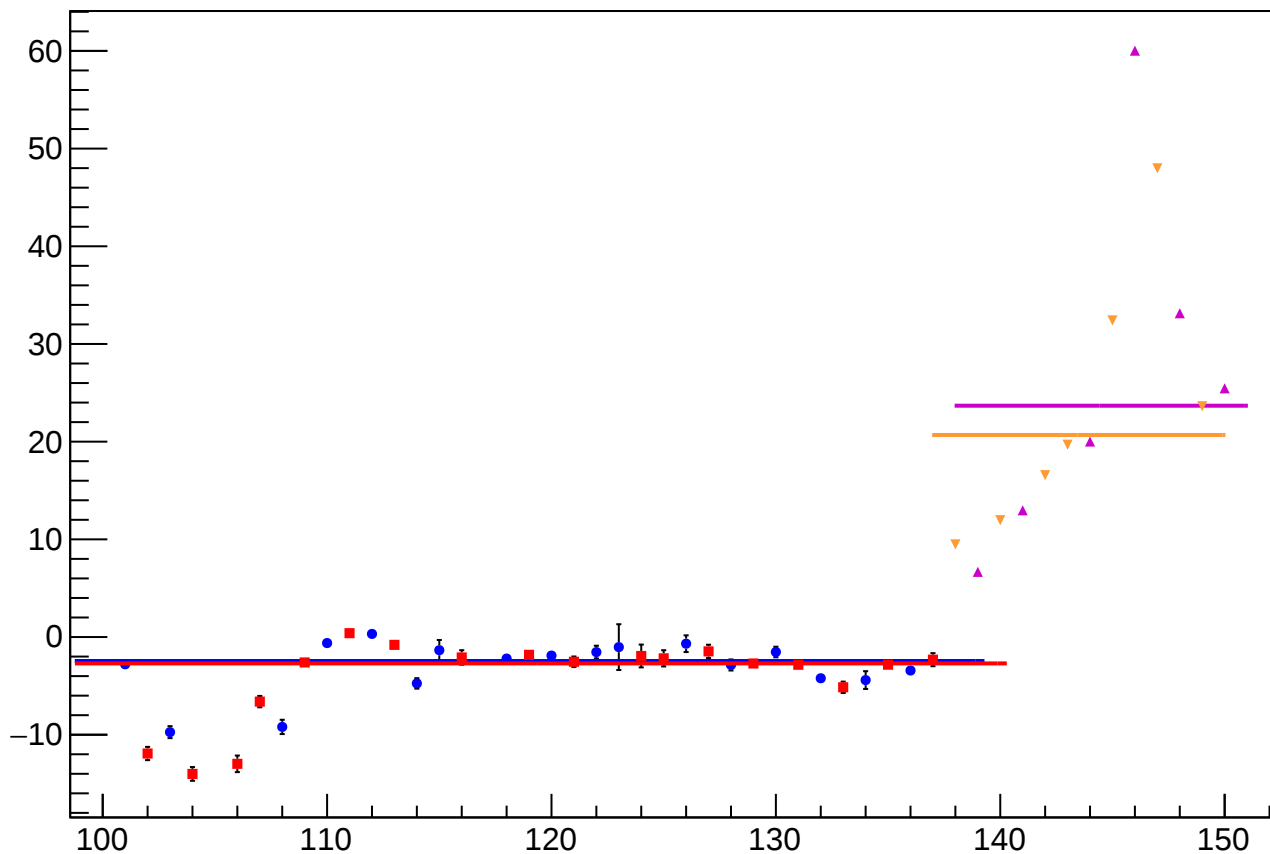
Right:  $1.264 \pm 0.043$   $\chi^2/\text{NDF}: 1499.0/34$

In:  $0.923 \pm 0.048$   $\chi^2/\text{NDF}: 1520.9/22$

Out:  $0.792 \pm 0.047$   $\chi^2/\text{NDF}: 1273.1/24$

All:  $0.856 \pm 0.034$   $\chi^2/\text{NDF}: 2797.7/47$

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:  $20.684 \pm 0.108$   $\chi^2/\text{NDF}$ : 11780.4/6

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

Left In:  $23.682 \pm 0.106$   $\chi^2/\text{NDF}$ : 23194.3/5

Left:  $22.213 \pm 0.076$   $\chi^2/\text{NDF}$ : 35366.0/12

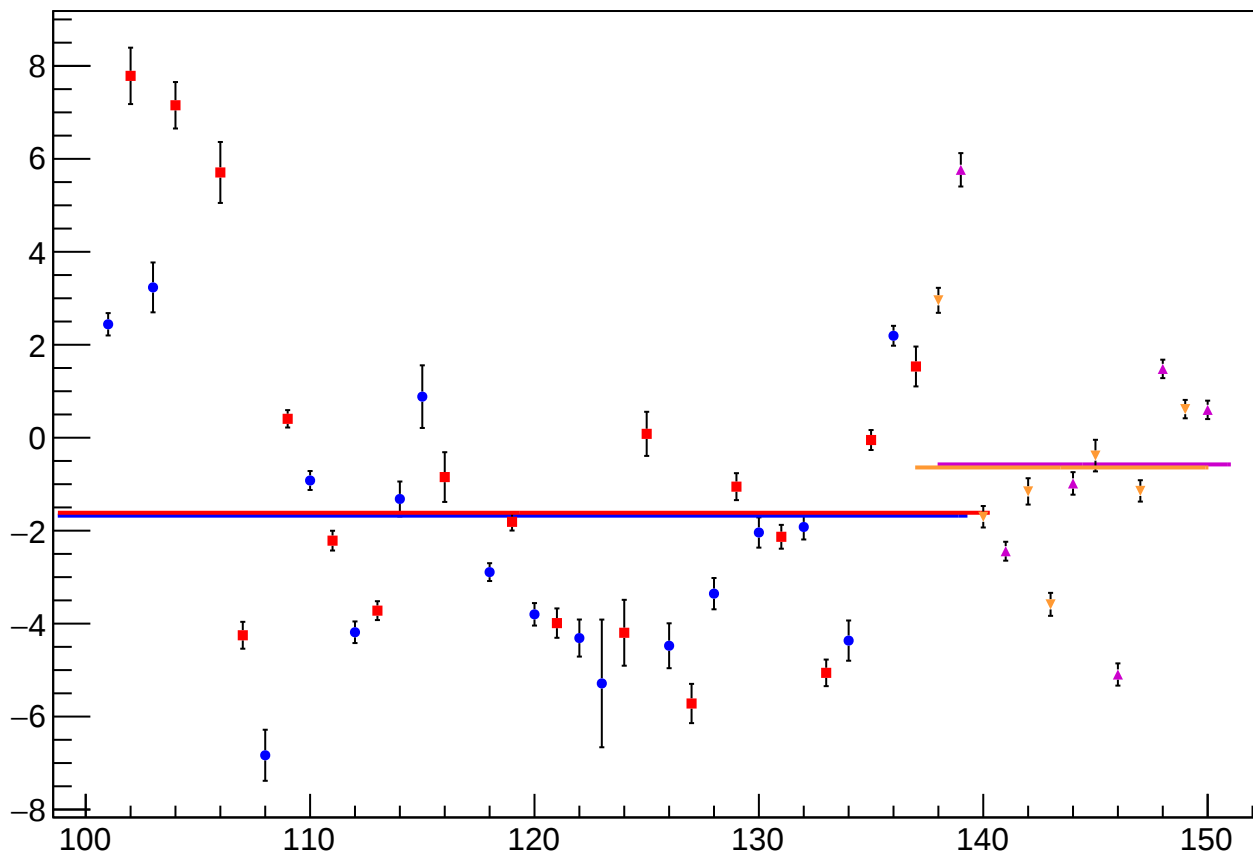
Right:  $-2.590 \pm 0.077$   $\chi^2/\text{NDF}$ : 1251.4/34

In:  $11.616 \pm 0.078$   $\chi^2/\text{NDF}$ : 51639.7/22

Out:  $8.478 \pm 0.075$   $\chi^2/\text{NDF}$ : 36980.3/24

All:  $9.985 \pm 0.054$   $\chi^2/\text{NDF}$ : 89464.9/47

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:  $-0.640 \pm 0.093$   $\chi^2/\text{NDF}: 390.7/6$

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}: 1427.3/17$

Left In:  $-0.575 \pm 0.092$   $\chi^2/\text{NDF}: 898.1/5$

Left:  $-0.607 \pm 0.066$   $\chi^2/\text{NDF}: 1289.0/12$

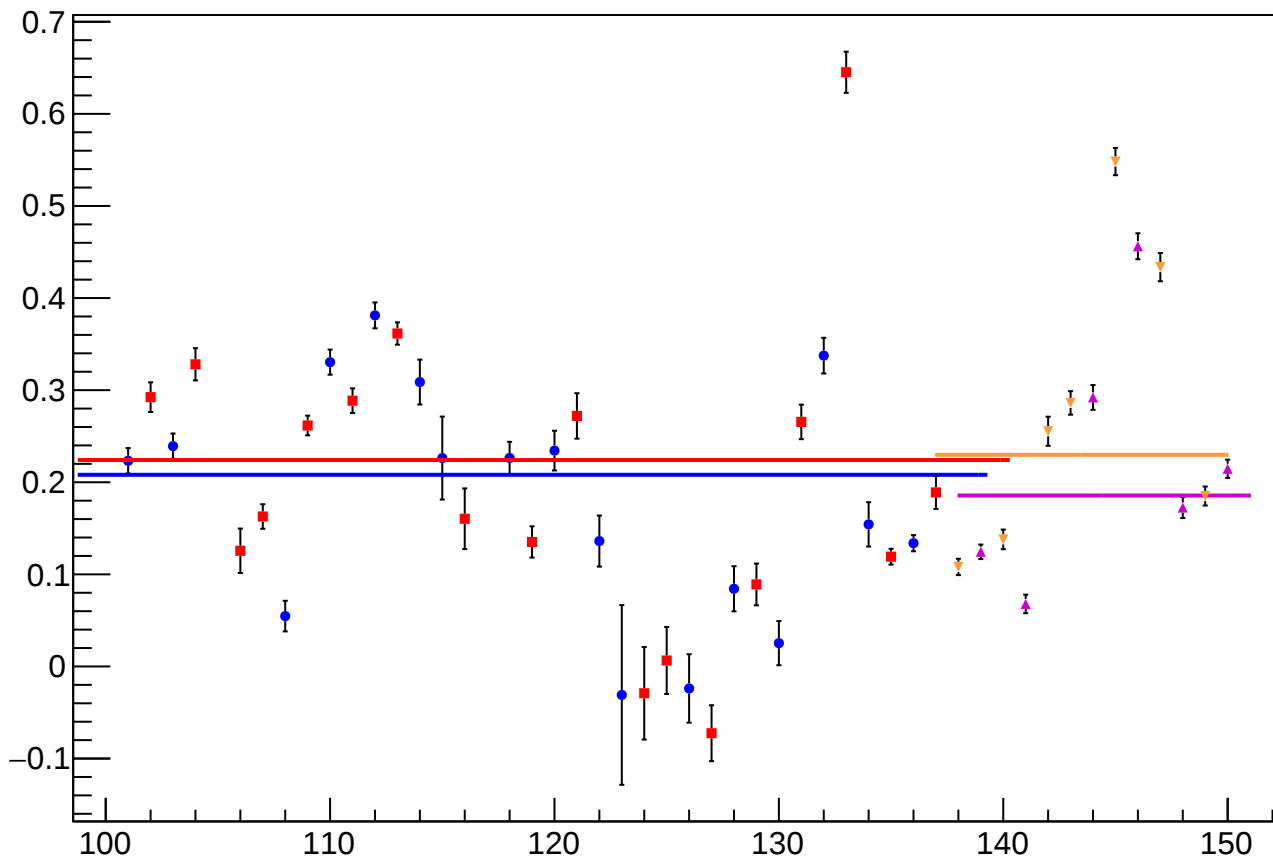
Right:  $-1.644 \pm 0.050$   $\chi^2/\text{NDF}: 2632.5/34$

In:  $-1.257 \pm 0.057$   $\chi^2/\text{NDF}: 2191.0/22$

Out:  $-1.277 \pm 0.055$   $\chi^2/\text{NDF}: 1889.2/24$

All:  $-1.268 \pm 0.040$   $\chi^2/\text{NDF}: 4080.2/47$

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.208 \pm 0.004$   $\chi^2/\text{NDF}$ : 600.2/16

Left Out:  $0.230 \pm 0.004$   $\chi^2/\text{NDF}$ : 942.5/6

Right Out:  $0.224 \pm 0.004$   $\chi^2/\text{NDF}$ : 995.8/17

Left In:  $0.186 \pm 0.004$   $\chi^2/\text{NDF}$ : 637.8/5

Left:  $0.207 \pm 0.003$   $\chi^2/\text{NDF}$ : 1631.1/12

Right:  $0.217 \pm 0.003$   $\chi^2/\text{NDF}$ : 1603.8/34

In:  $0.197 \pm 0.003$   $\chi^2/\text{NDF}$ : 1251.8/22

Out:  $0.227 \pm 0.003$   $\chi^2/\text{NDF}$ : 1939.2/24

All:  $0.212 \pm 0.002$   $\chi^2/\text{NDF}$ : 3240.9/47