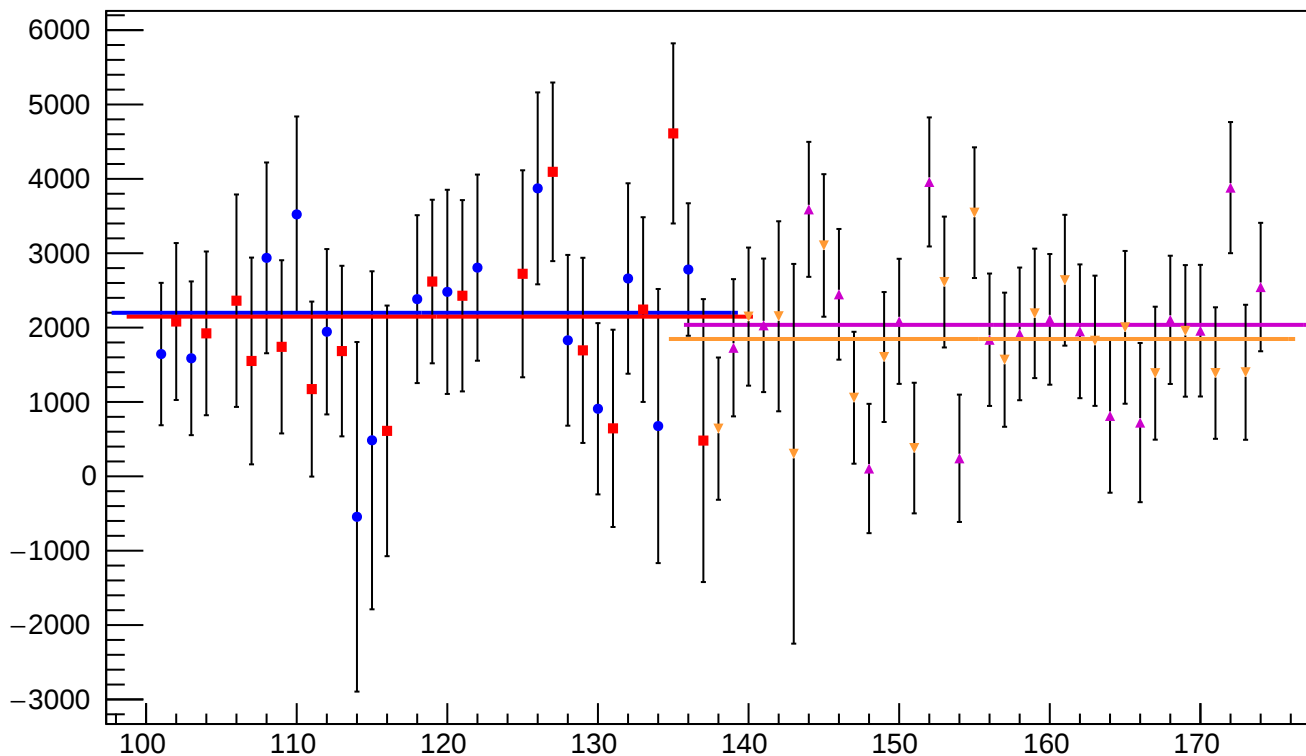


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2198.880+/-306.767

Left Out: 1846.840+/-214.734

Right Out: 2147.149+/-304.804

Left In: 2036.801+/-210.996

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

$\chi^2/\text{NDF}$ : 13.9/18

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

$\chi^2/\text{NDF}$ : 25.2/17

Left: 1943.488+/-150.501

Right: 2172.848+/-216.219

In: 2088.853+/-173.845

Out: 1946.451+/-175.545

All: 2018.345+/-123.524

$\chi^2/\text{NDF}$ : 39.5/36

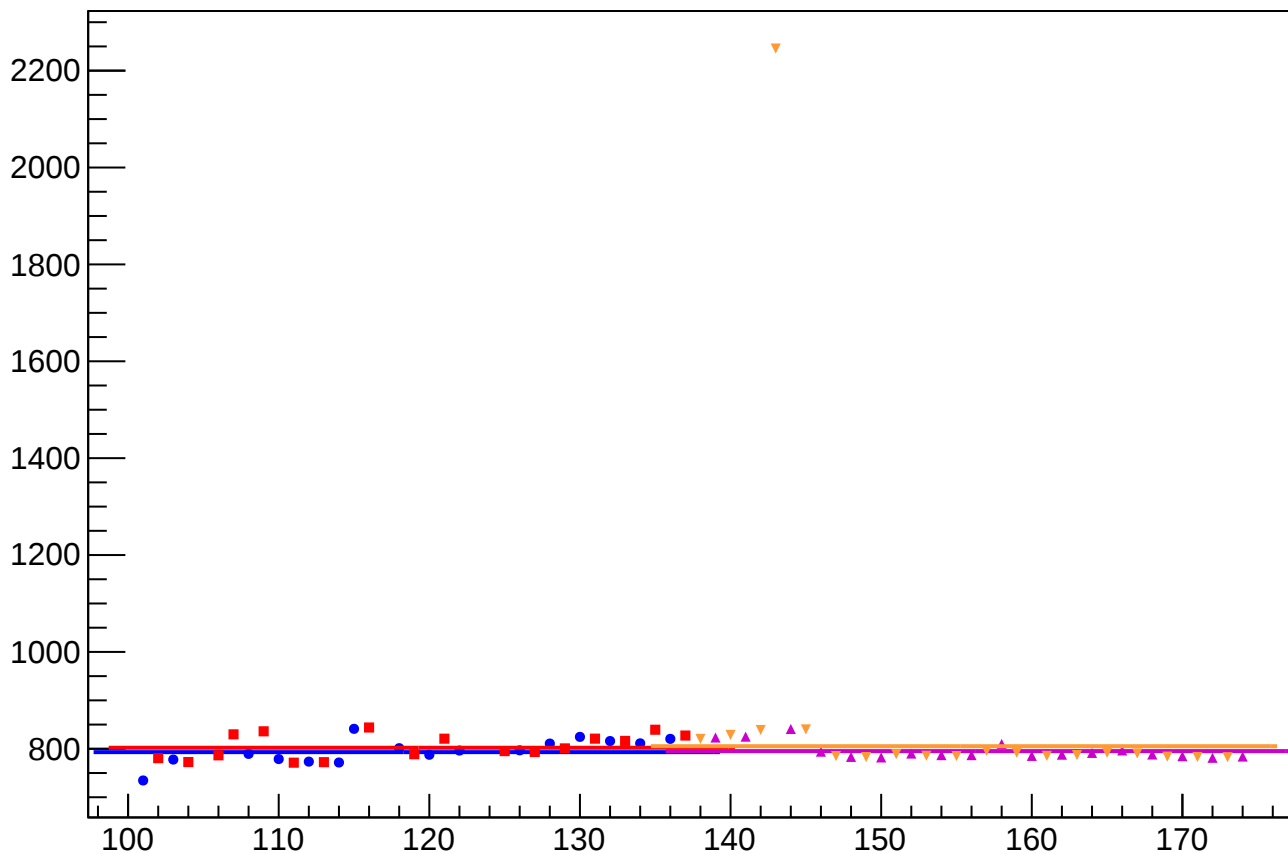
$\chi^2/\text{NDF}$ : 20.0/32

$\chi^2/\text{NDF}$ : 34.0/33

$\chi^2/\text{NDF}$ : 25.9/35

$\chi^2/\text{NDF}$ : 60.3/69

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



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

Left Out: 805.342+/-0.152  $\chi^2/\text{NDF}$ : 654632.9/18

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

Left In: 795.263+/-0.149  $\chi^2/\text{NDF}$ : 12622.3/17

Left: 800.214+/-0.106  $\chi^2/\text{NDF}$ : 669496.8/36

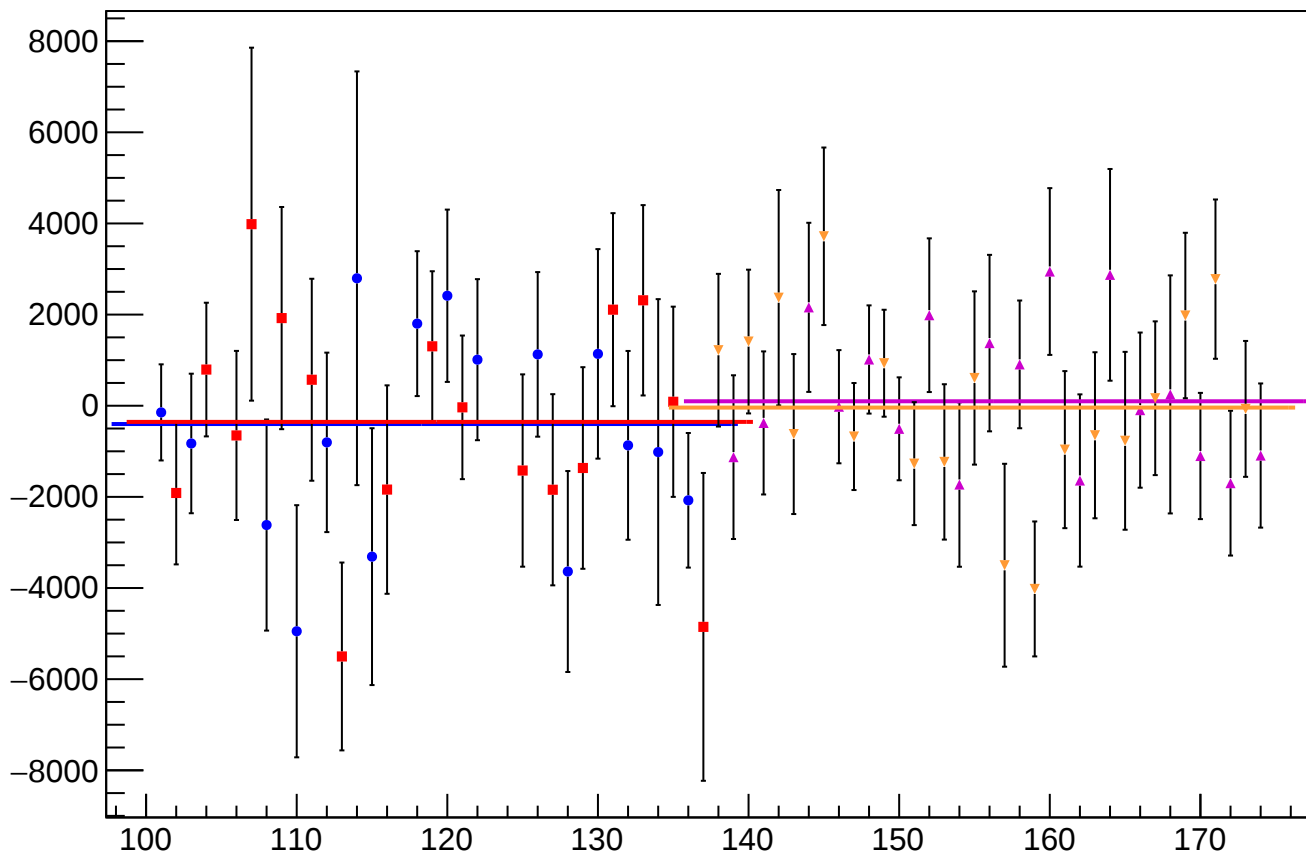
Right: 797.648+/-0.153  $\chi^2/\text{NDF}$ : 28303.8/32

In: 794.566+/-0.123  $\chi^2/\text{NDF}$ : 27393.4/33

Out: 804.283+/-0.124  $\chi^2/\text{NDF}$ : 667503.2/35

All: 799.377+/-0.087  $\chi^2/\text{NDF}$ : 697990.3/69

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:  $-40.408 \pm 374.288$   $\chi^2/\text{NDF}: 22.7/18$

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

Left In:  $97.945 \pm 373.845$   $\chi^2/\text{NDF}: 13.0/17$

Left:  $28.850 \pm 264.505$   $\chi^2/\text{NDF}: 35.8/36$

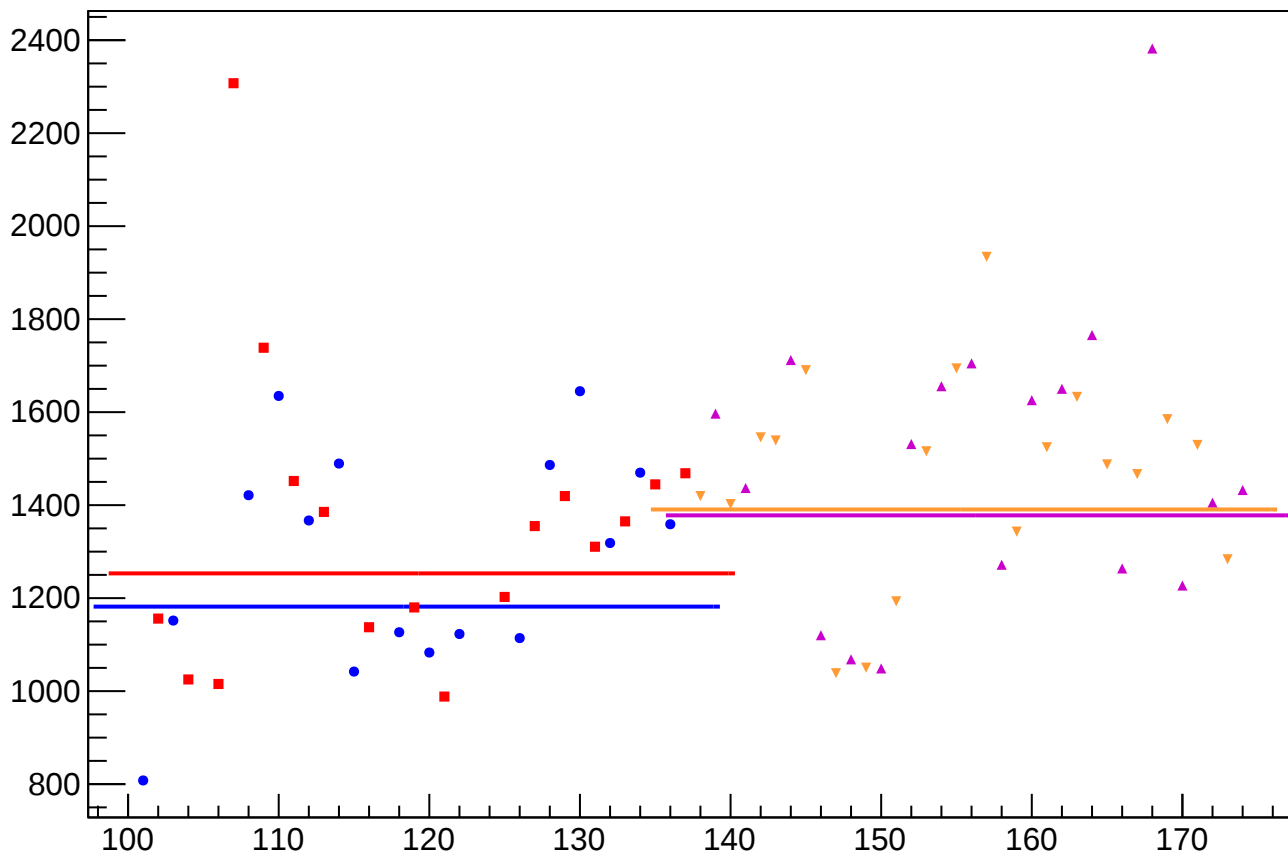
Right:  $-378.842 \pm 337.535$   $\chi^2/\text{NDF}: 32.2/32$

In:  $-96.255 \pm 292.255$   $\chi^2/\text{NDF}: 28.6/33$

Out:  $-157.172 \pm 296.658$   $\chi^2/\text{NDF}: 40.4/35$

All:  $-126.258 \pm 208.195$   $\chi^2/\text{NDF}: 69.0/69$

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



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

Left Out: 1390.692 $\pm$ 0.265  $\chi^2$ /NDF: 747053.0/18

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

Left In: 1378.016 $\pm$ 0.264  $\chi^2$ /NDF: 1086954.0/17

Left: 1384.346 $\pm$ 0.187  $\chi^2$ /NDF: 1835155.3/36

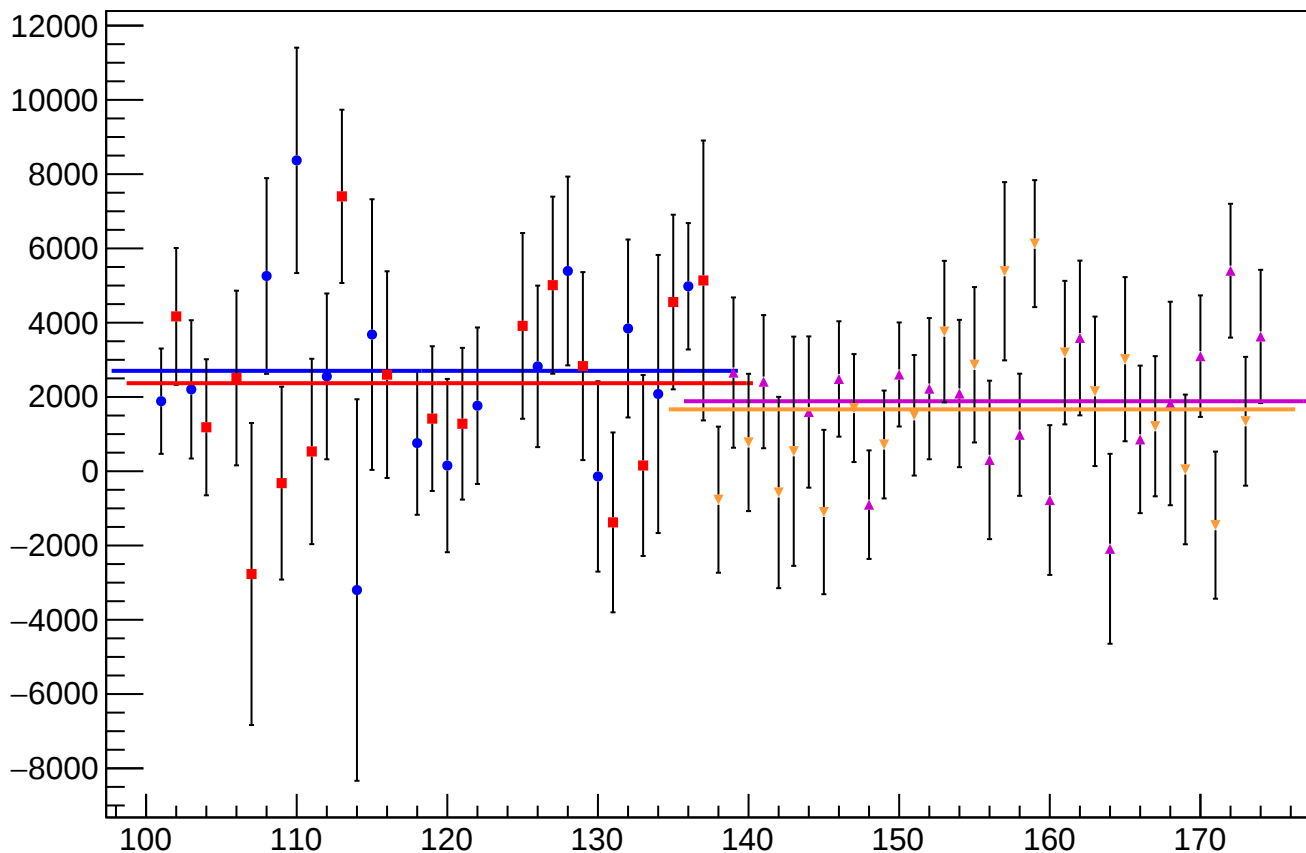
Right: 1216.159 $\pm$ 0.239  $\chi^2$ /NDF: 1021509.6/32

In: 1301.703 $\pm$ 0.207  $\chi^2$ /NDF: 1844763.6/33

Out: 1339.581 $\pm$ 0.210  $\chi^2$ /NDF: 1303002.6/35

All: 1320.359 $\pm$ 0.147  $\chi^2$ /NDF: 3164313.0/69

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



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

Left Out: 1666.082 $\pm$ 438.873  $\chi^2/\text{NDF}$ : 19.7/18

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

Left In: 1884.951 $\pm$ 433.681  $\chi^2/\text{NDF}$ : 15.6/17

Left: 1776.819 $\pm$ 308.478  $\chi^2/\text{NDF}$ : 35.4/36

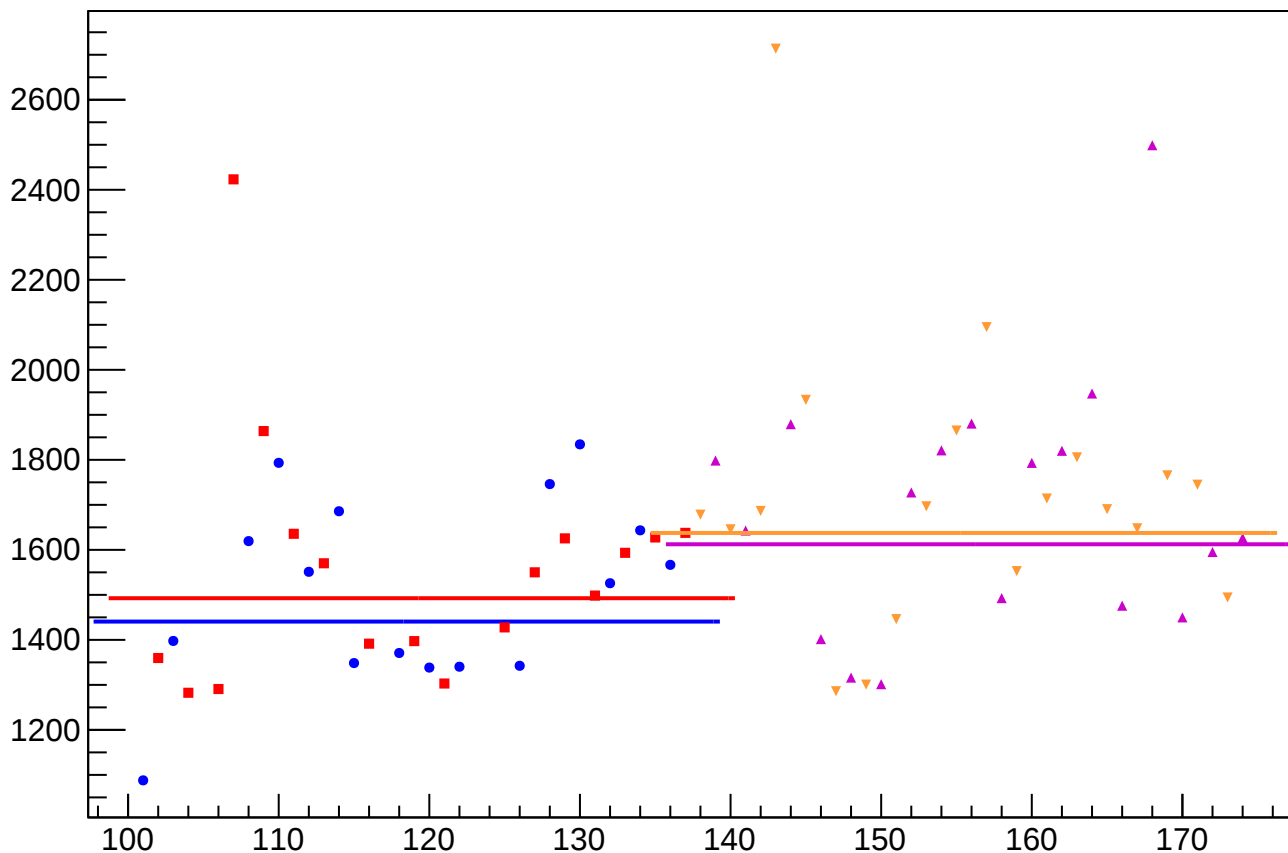
Right: 2539.780 $\pm$ 402.301  $\chi^2/\text{NDF}$ : 29.2/32

In: 2188.826 $\pm$ 343.909  $\chi^2/\text{NDF}$ : 29.9/33

Out: 1926.298 $\pm$ 348.526  $\chi^2/\text{NDF}$ : 36.7/35

All: 2059.313 $\pm$ 244.796  $\chi^2/\text{NDF}$ : 66.9/69

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



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

Left Out: 1637.570 $\pm$ 0.310  $\chi^2/\text{NDF}$ : 682140.0/18

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

Left In: 1612.397 $\pm$ 0.307  $\chi^2/\text{NDF}$ : 650063.6/17

Left: 1624.833 $\pm$ 0.218  $\chi^2/\text{NDF}$ : 1335532.7/36

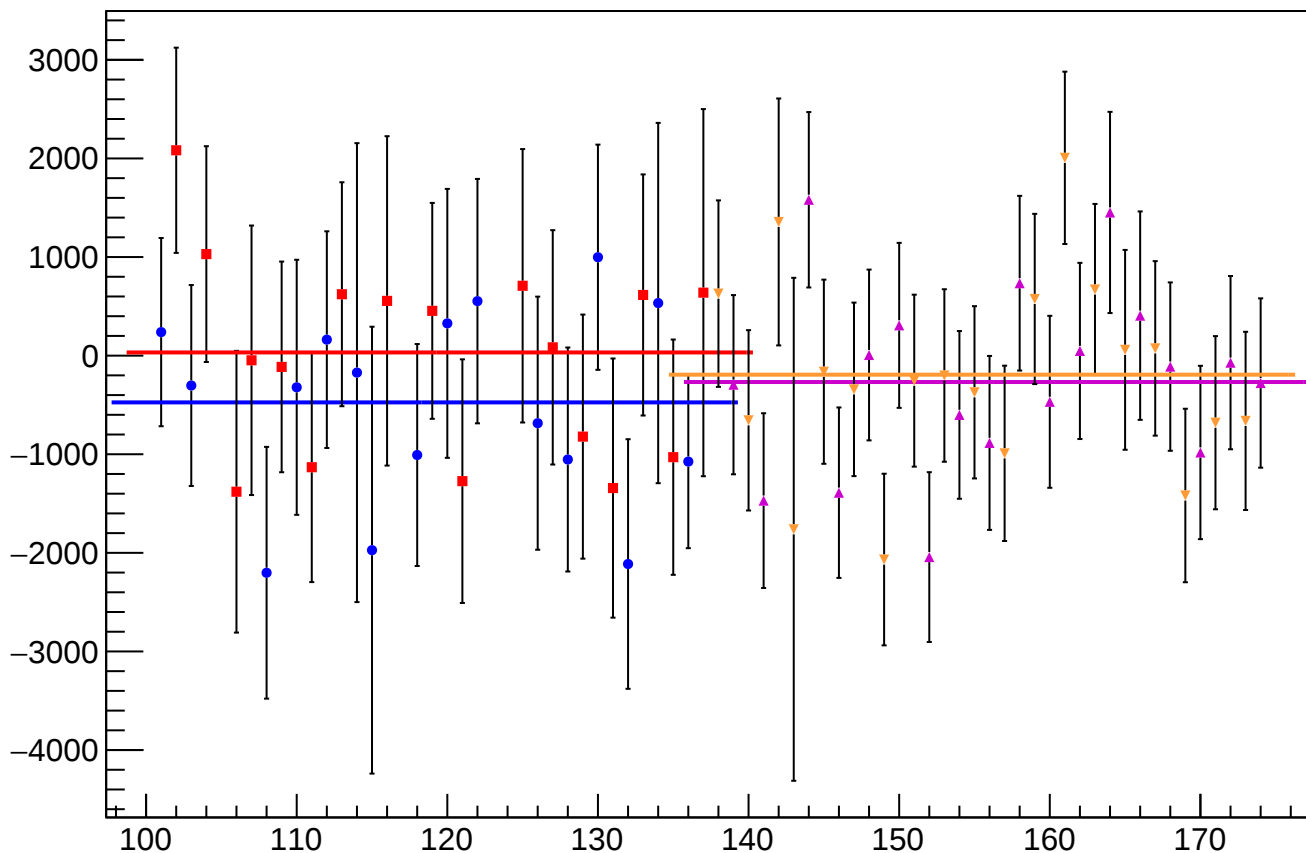
Right: 1466.182 $\pm$ 0.284  $\chi^2/\text{NDF}$ : 542080.9/32

In: 1548.654 $\pm$ 0.243  $\chi^2/\text{NDF}$ : 1048740.1/33

Out: 1584.000 $\pm$ 0.246  $\chi^2/\text{NDF}$ : 1014325.1/35

All: 1566.091 $\pm$ 0.173  $\chi^2/\text{NDF}$ : 2073487.4/69

# 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:  $-193.082 \pm 212.688$   $\chi^2/\text{NDF}: 19.2/18$

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

Left In:  $-267.511 \pm 209.059$   $\chi^2/\text{NDF}: 18.8/17$

Left:  $-230.937 \pm 149.094$   $\chi^2/\text{NDF}: 38.1/36$

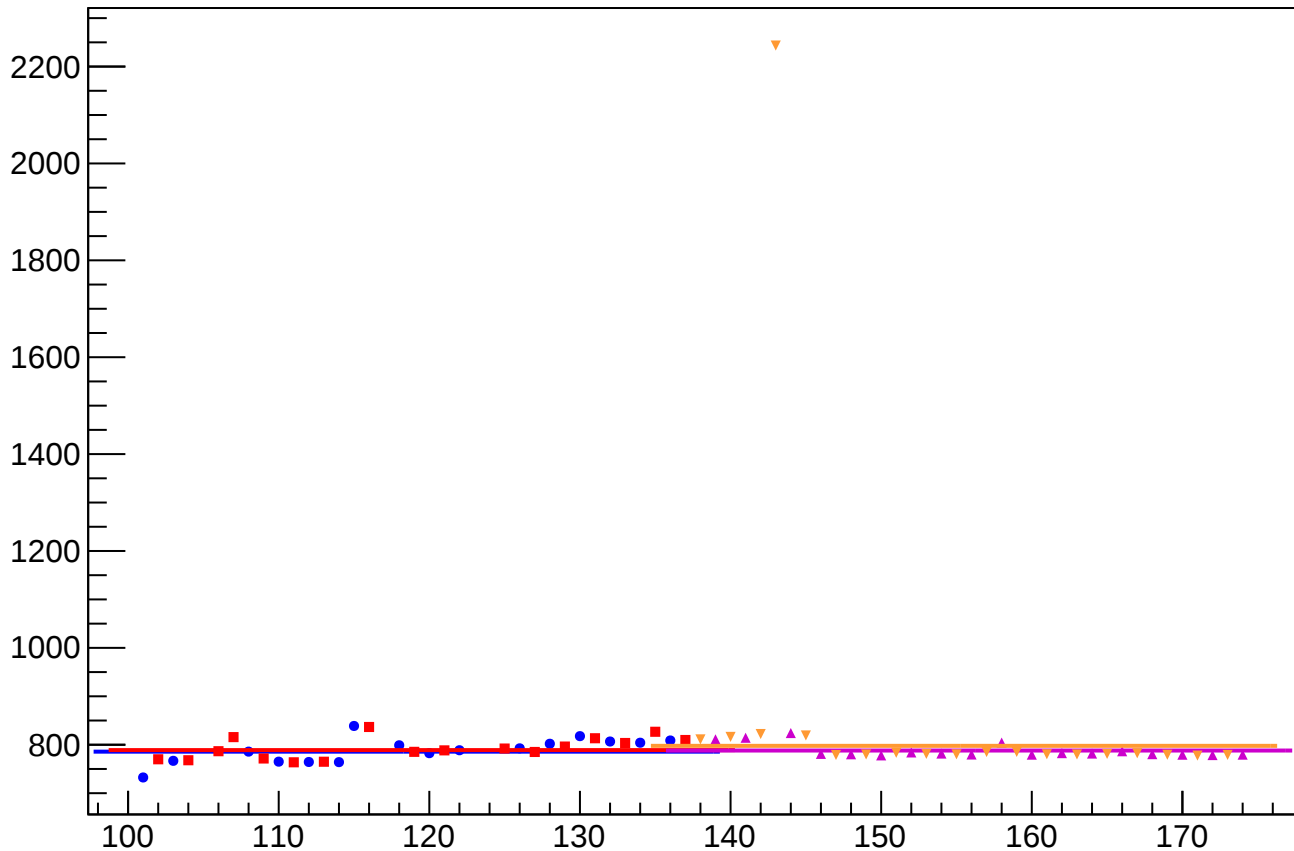
Right:  $-217.229 \pm 213.362$   $\chi^2/\text{NDF}: 21.6/32$

In:  $-333.880 \pm 172.242$   $\chi^2/\text{NDF}: 28.0/33$

Out:  $-117.511 \pm 173.432$   $\chi^2/\text{NDF}: 30.9/35$

All:  $-226.440 \pm 122.212$   $\chi^2/\text{NDF}: 59.6/69$

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



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

Left Out: 797.742 $\pm$ 0.150  $\chi^2$ /NDF: 655768.8/18

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

Left In: 788.056 $\pm$ 0.148  $\chi^2$ /NDF: 9056.6/17

Left: 792.816 $\pm$ 0.105  $\chi^2$ /NDF: 666935.3/36

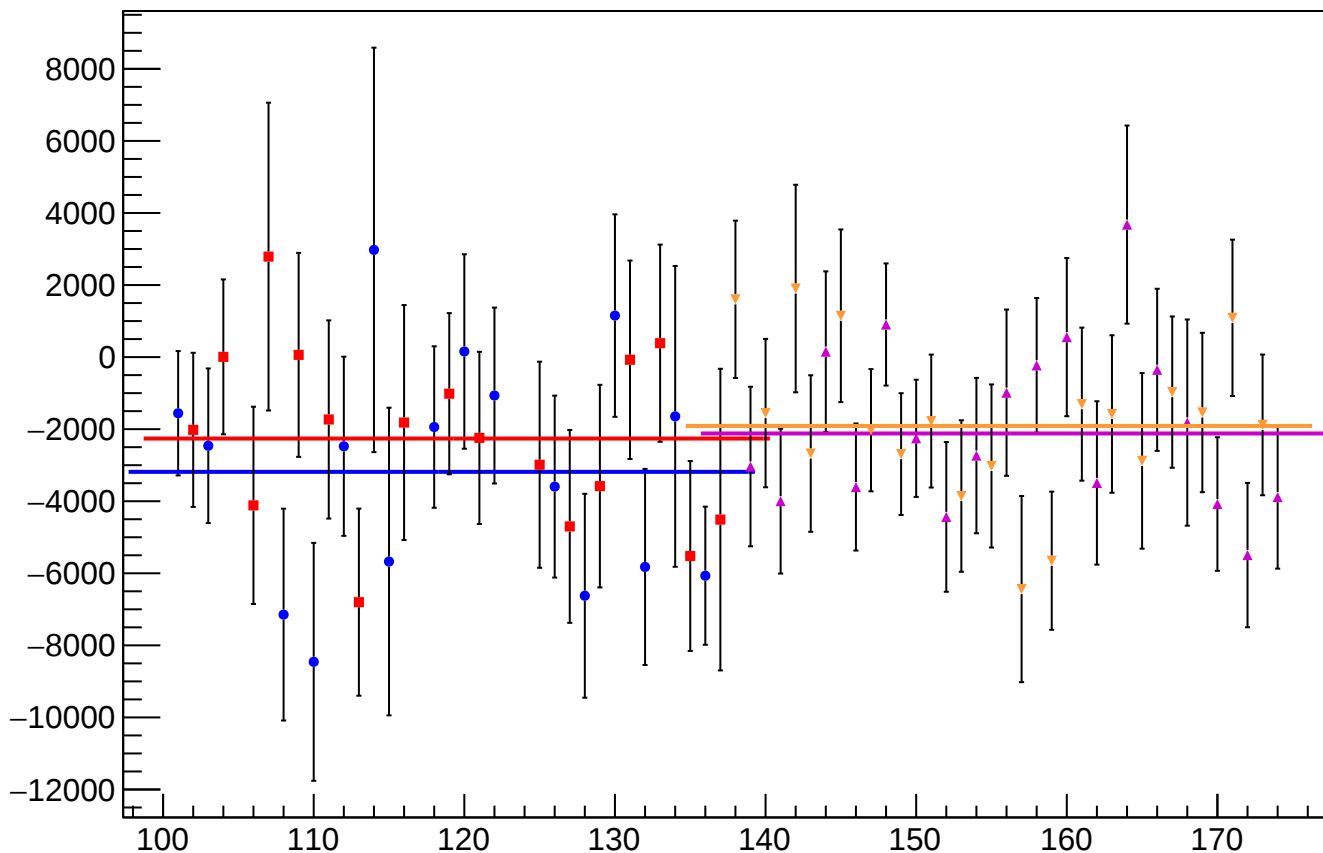
Right: 787.366 $\pm$ 0.151  $\chi^2$ /NDF: 23558.6/32

In: 787.314 $\pm$ 0.122  $\chi^2$ /NDF: 23056.5/33

Out: 794.793 $\pm$ 0.123  $\chi^2$ /NDF: 666441.6/35

All: 791.028 $\pm$ 0.086  $\chi^2$ /NDF: 691370.7/69

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



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

Left Out: -1911.002 $\pm$ 482.641  $\chi^2$ /NDF:16.7/18

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

Left In: -2119.793 $\pm$ 483.954  $\chi^2$ /NDF:20.2/17

Left: -2015.114 $\pm$ 341.742  $\chi^2$ /NDF: 37.1/36

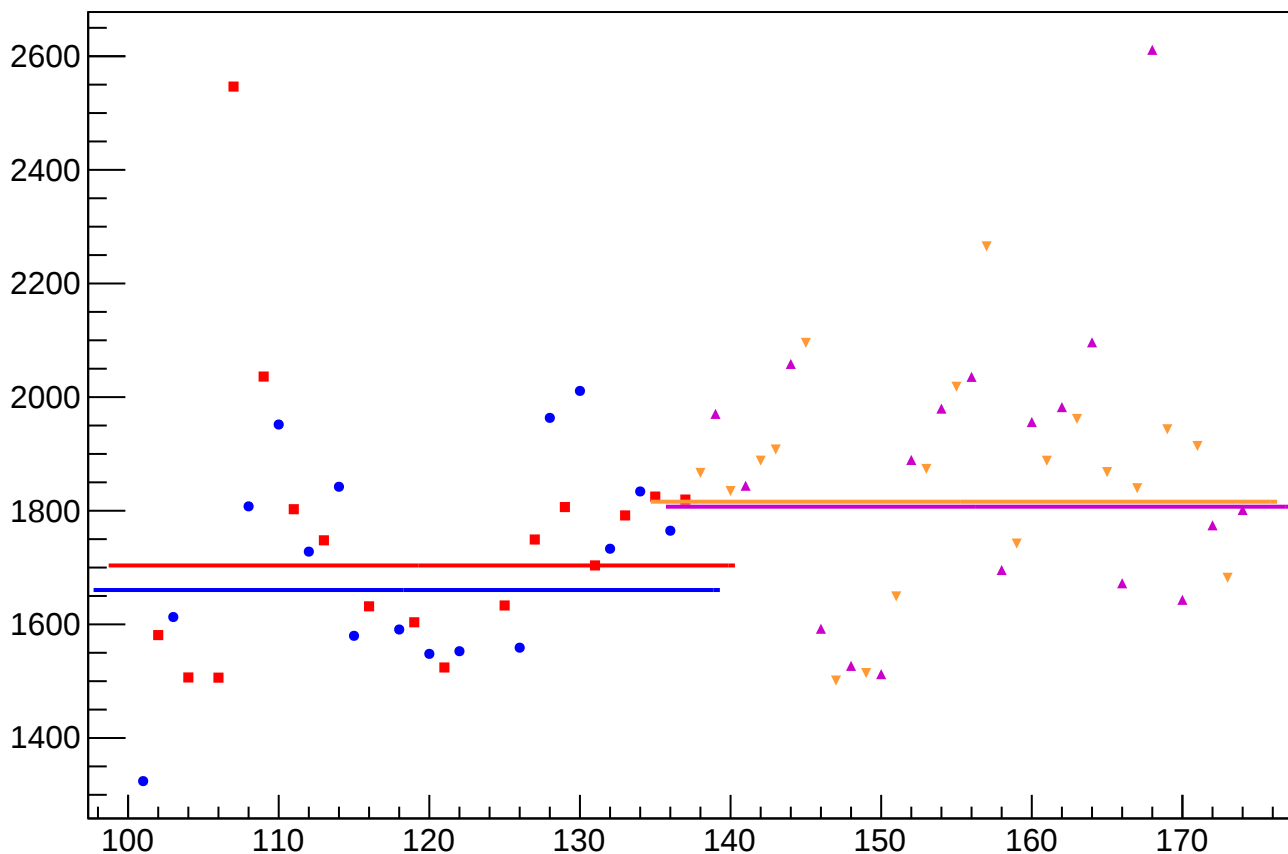
Right: -2725.651 $\pm$ 459.370  $\chi^2$ /NDF: 29.4/32

In: -2501.511 $\pm$ 387.613  $\chi^2$ /NDF:38.8/33

Out: -2034.640 $\pm$ 387.913  $\chi^2$ /NDF:28.5/35

All: -2268.256 $\pm$ 274.190  $\chi^2$ /NDF: 68.0/69

# 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: 1815.934 $\pm$ 0.341  $\chi^2/\text{NDF}$ : 295680.0/18

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

Left In: 1807.120 $\pm$ 0.342  $\chi^2/\text{NDF}$ : 454260.4/17

Left: 1811.539 $\pm$ 0.242  $\chi^2/\text{NDF}$ : 750272.9/36

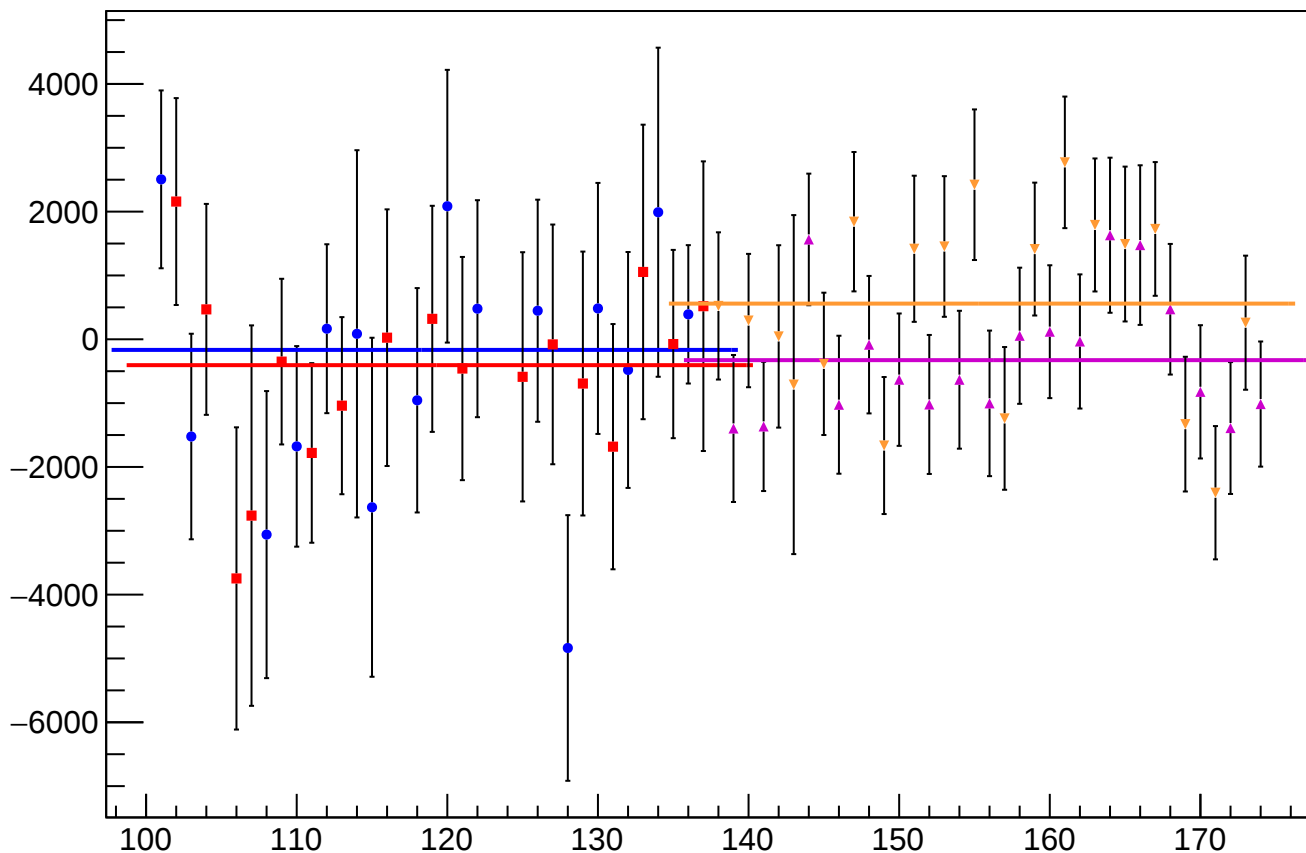
Right: 1681.918 $\pm$ 0.325  $\chi^2/\text{NDF}$ : 354656.9/32

In: 1754.541 $\pm$ 0.274  $\chi^2/\text{NDF}$ : 699314.2/33

Out: 1776.194 $\pm$ 0.274  $\chi^2/\text{NDF}$ : 505007.4/35

All: 1765.359 $\pm$ 0.194  $\chi^2/\text{NDF}$ : 1207439.6/69

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



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

Left Out: 558.924+/-258.050  $\chi^2/\text{NDF}$ : 33.0/18

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

Left In: -326.791+/-252.650  $\chi^2/\text{NDF}$ : 14.1/17

Left: 106.702+/-180.529  $\chi^2/\text{NDF}$ : 53.1/36

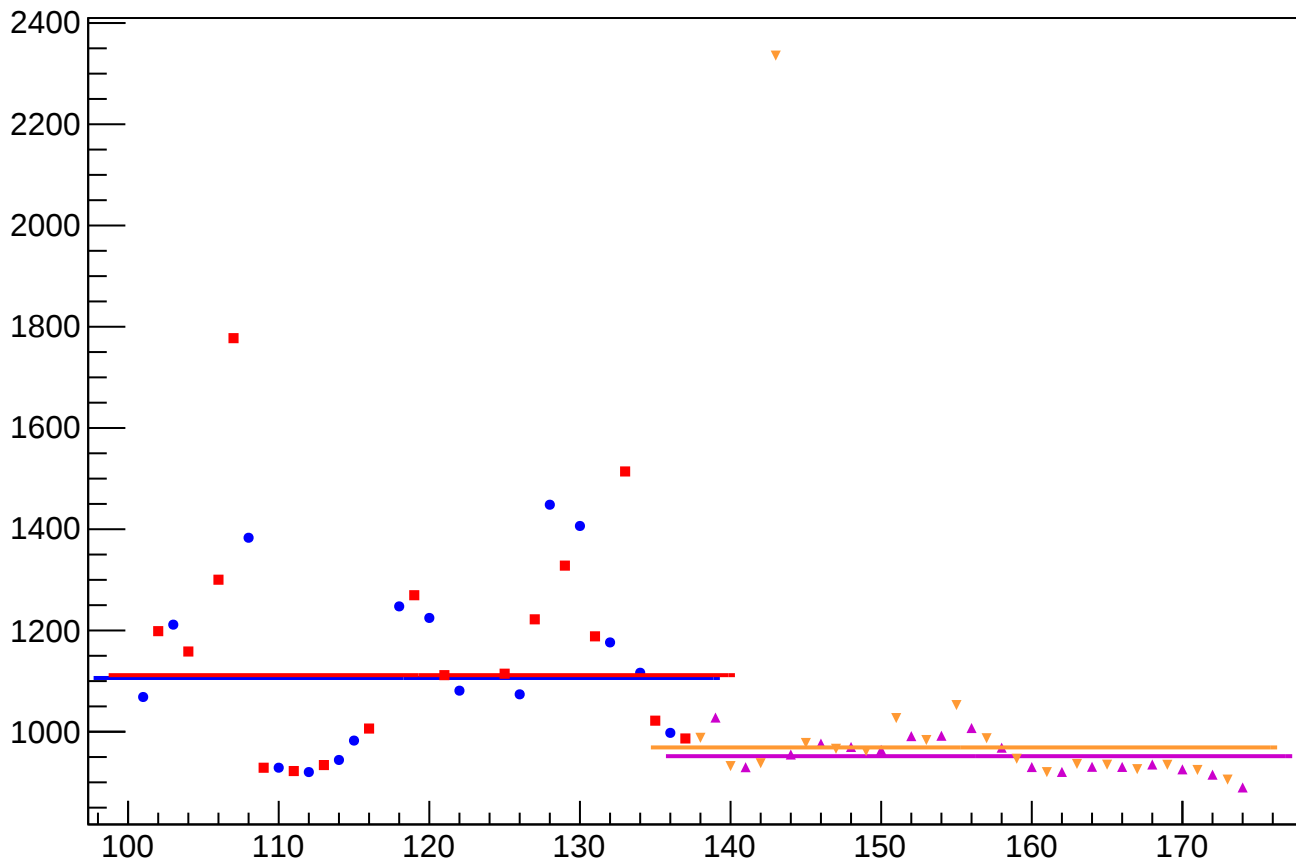
Right: -286.949+/-304.505  $\chi^2/\text{NDF}$ : 23.7/32

In: -285.998+/-218.178  $\chi^2/\text{NDF}$ : 29.9/33

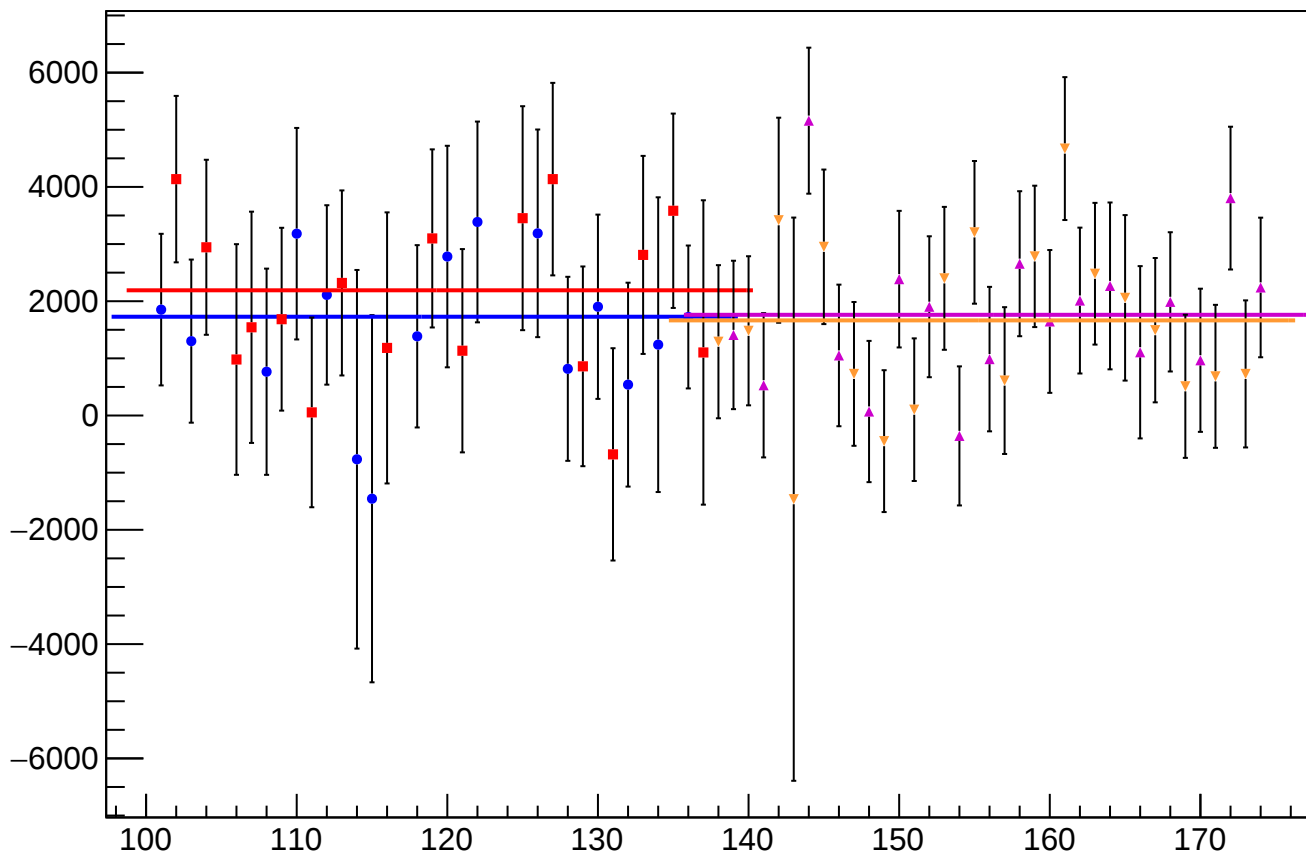
Out: 302.409+/-221.076  $\chi^2/\text{NDF}$ : 44.6/35

All: 4.324+/-155.290  $\chi^2/\text{NDF}$ : 78.0/69

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



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



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

Left Out: 1664.539 $\pm$ 304.537  $\chi^2$ /NDF:19.0/18

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

Left In: 1762.100 $\pm$ 298.730  $\chi^2$ /NDF:18.1/17

Left: 1714.259 $\pm$ 213.257  $\chi^2$ /NDF: 37.2/36

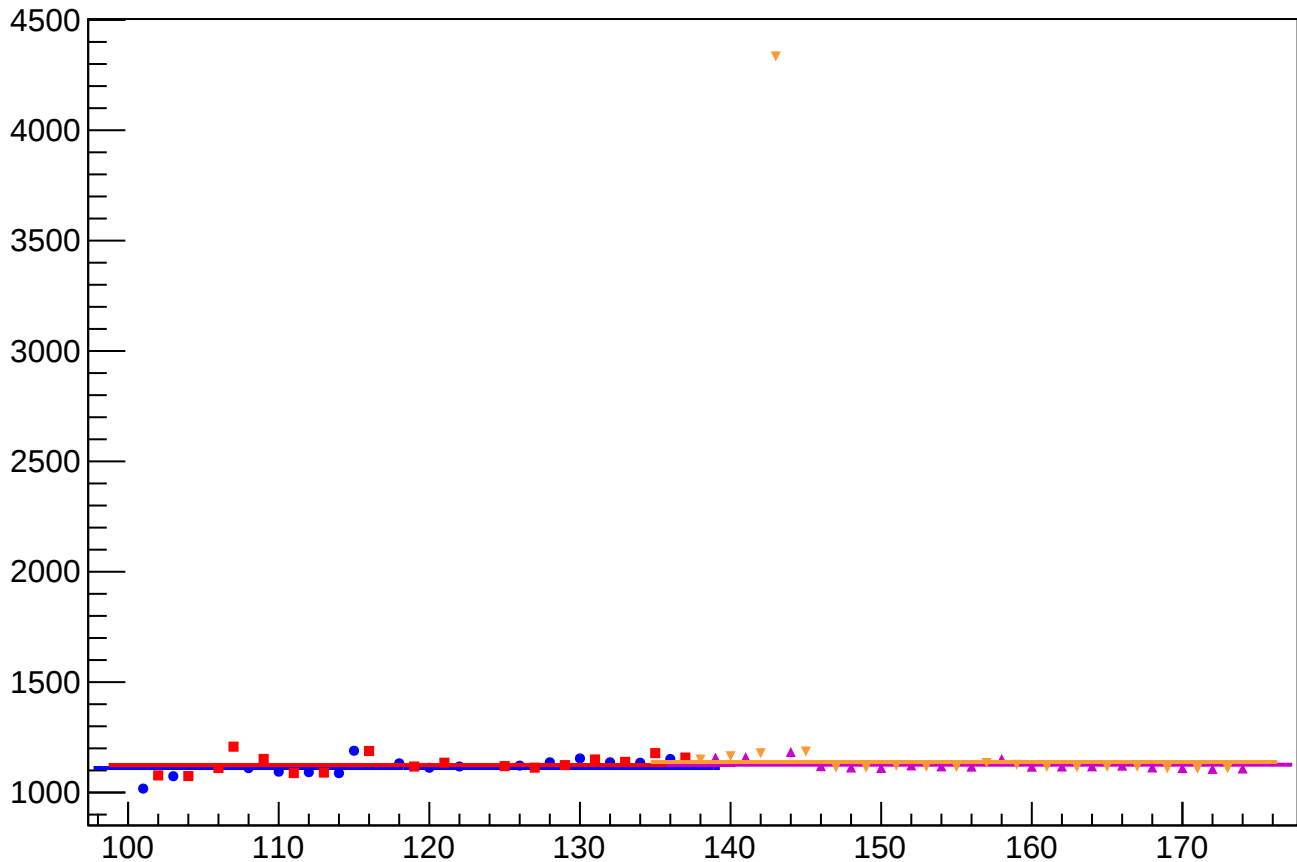
Right: 1961.110 $\pm$ 303.000  $\chi^2$ /NDF: 16.7/32

In: 1751.144 $\pm$ 245.299  $\chi^2$ /NDF:23.4/33

Out: 1841.908 $\pm$ 247.982  $\chi^2$ /NDF:30.9/35

All: 1796.032 $\pm$ 174.394  $\chi^2$ /NDF: 54.3/69

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



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

Left Out: 1138.136+/-0.215  $\chi^2/\text{NDF}$ : 854919.6/18

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

Left In: 1126.006+/-0.211  $\chi^2/\text{NDF}$ : 9982.0/17

Left: 1131.954+/-0.151  $\chi^2/\text{NDF}$ : 866518.9/36

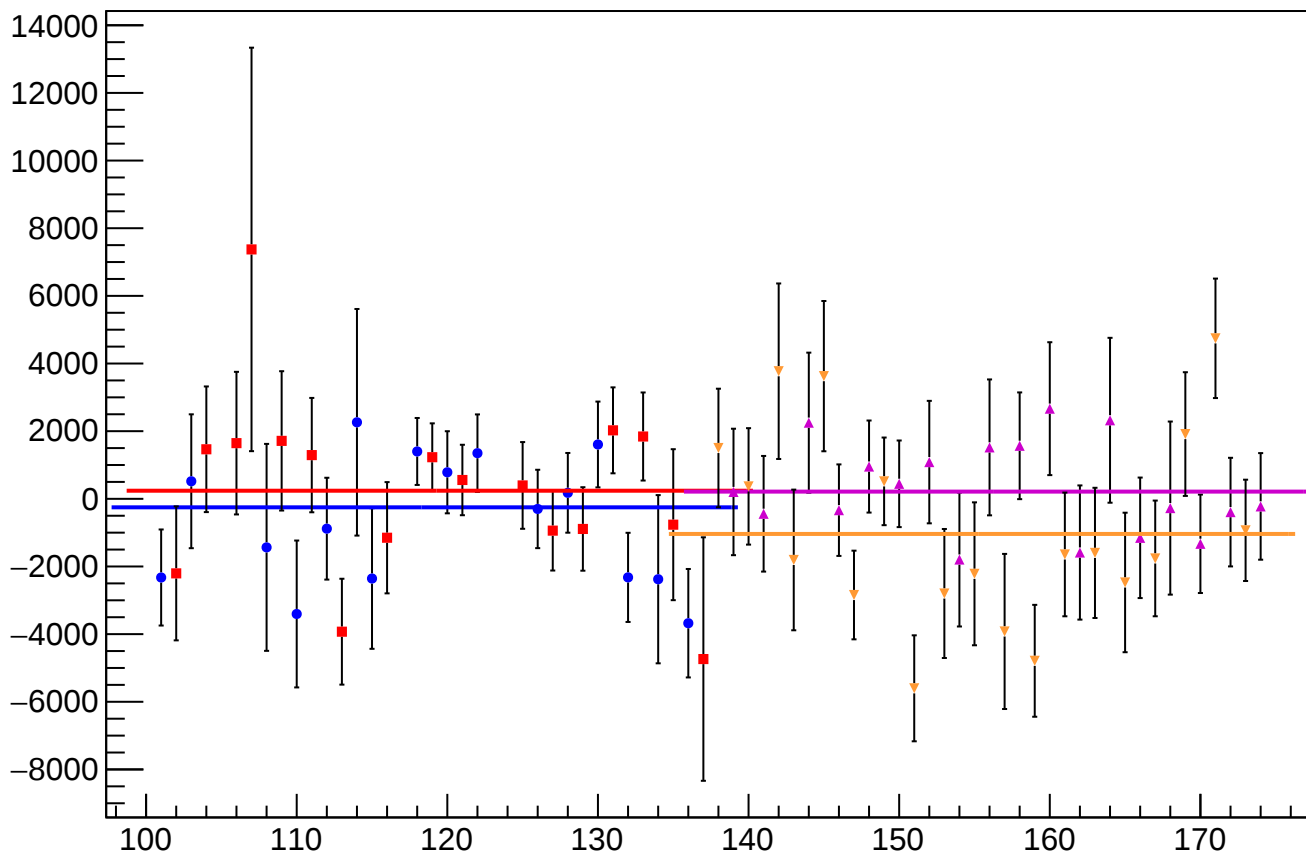
Right: 1117.819+/-0.214  $\chi^2/\text{NDF}$ : 33680.2/32

In: 1121.132+/-0.173  $\chi^2/\text{NDF}$ : 29707.6/33

Out: 1133.547+/-0.175  $\chi^2/\text{NDF}$ : 870868.6/35

All: 1127.272+/-0.123  $\chi^2/\text{NDF}$ : 903109.9/69

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



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

Left Out: -1038.074+/-404.947  $\chi^2/\text{NDF}$ :44.7/18

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

Left In: 213.441+/-402.220  $\chi^2/\text{NDF}$ :9.1/17

Left: -408.087+/-285.372  $\chi^2/\text{NDF}$ : 58.6/36

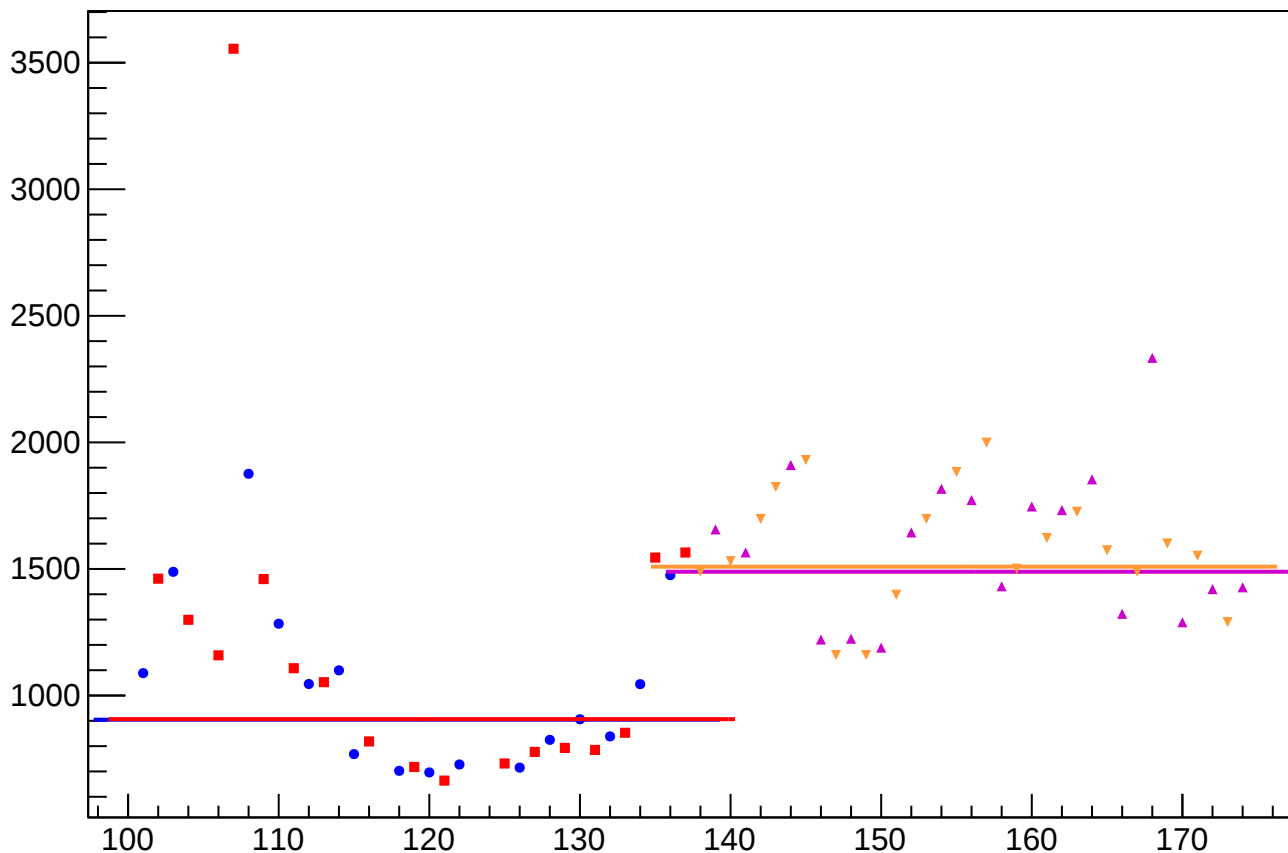
Right: -4.984+/-257.666  $\chi^2/\text{NDF}$ : 43.8/32

In: -41.468+/-270.277  $\chi^2/\text{NDF}$ :31.7/33

Out: -330.971+/-270.644  $\chi^2/\text{NDF}$ :71.2/35

All: -186.023+/-191.244  $\chi^2/\text{NDF}$ : 103.5/69

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



Right In: 904.488 $\pm$ 0.258  $\chi^2$ /NDF: 1021094.8/15

Left Out: 1509.109 $\pm$ 0.286  $\chi^2$ /NDF: 684206.8/18

Right Out: 906.594 $\pm$ 0.257  $\chi^2$ /NDF: 1376076.4/16

Left In: 1488.986 $\pm$ 0.284  $\chi^2$ /NDF: 868053.8/17

Left: 1498.979 $\pm$ 0.202  $\chi^2$ /NDF: 1554746.7/36

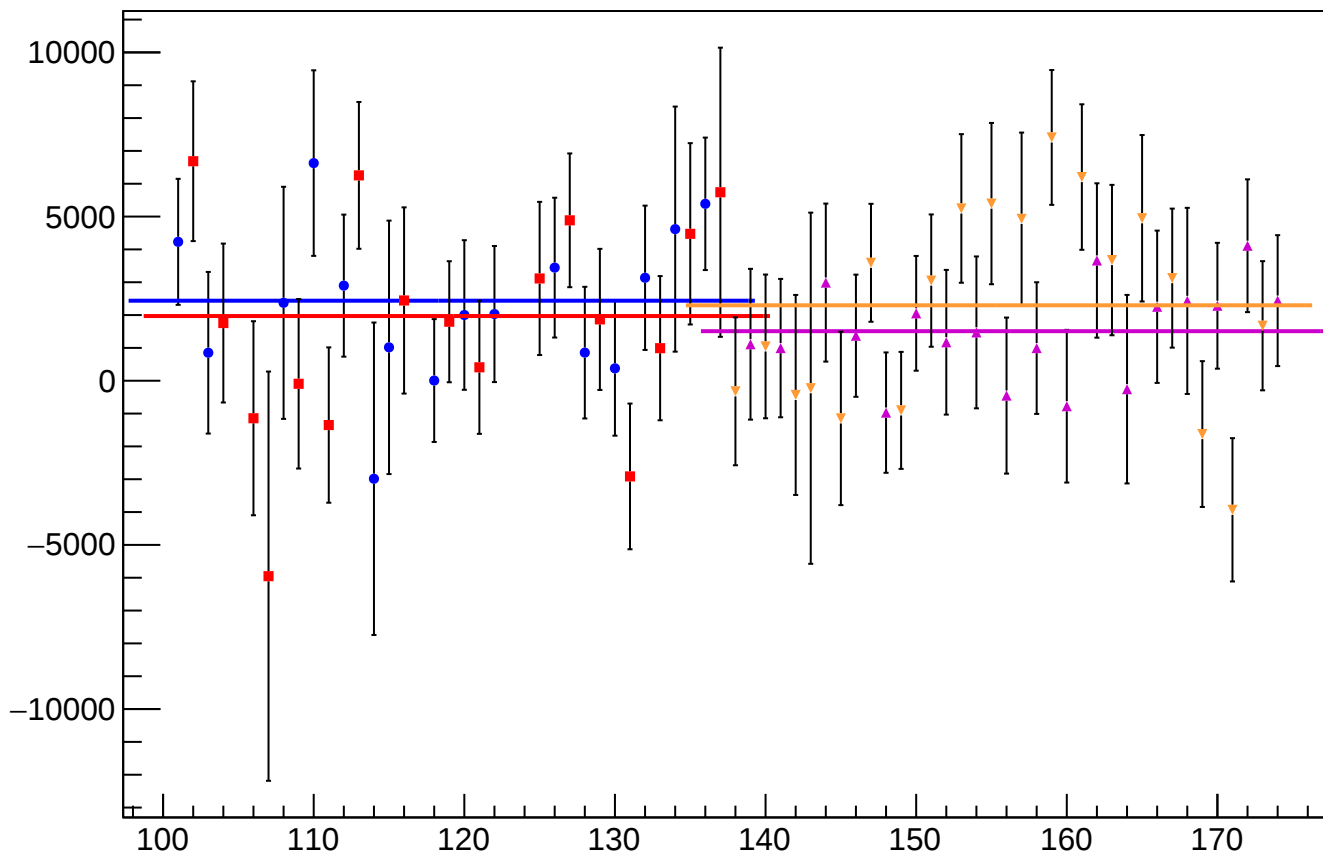
Right: 905.545 $\pm$ 0.182  $\chi^2$ /NDF: 2397204.6/32

In: 1168.409 $\pm$ 0.191  $\chi^2$ /NDF: 4205569.4/33

Out: 1175.728 $\pm$ 0.191  $\chi^2$ /NDF: 4510139.6/35

All: 1172.064 $\pm$ 0.135  $\chi^2$ /NDF: 8716441.2/69

# asym\_usl\_mean vs Slug, Sign Corrected



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

Left Out: 2297.509+/-516.377  $\chi^2/\text{NDF}$ :34.9/18

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

Left In: 1509.173+/-507.267  $\chi^2/\text{NDF}$ :7.6/17

Left: 1896.325+/-361.870  $\chi^2/\text{NDF}$ : 43.7/36

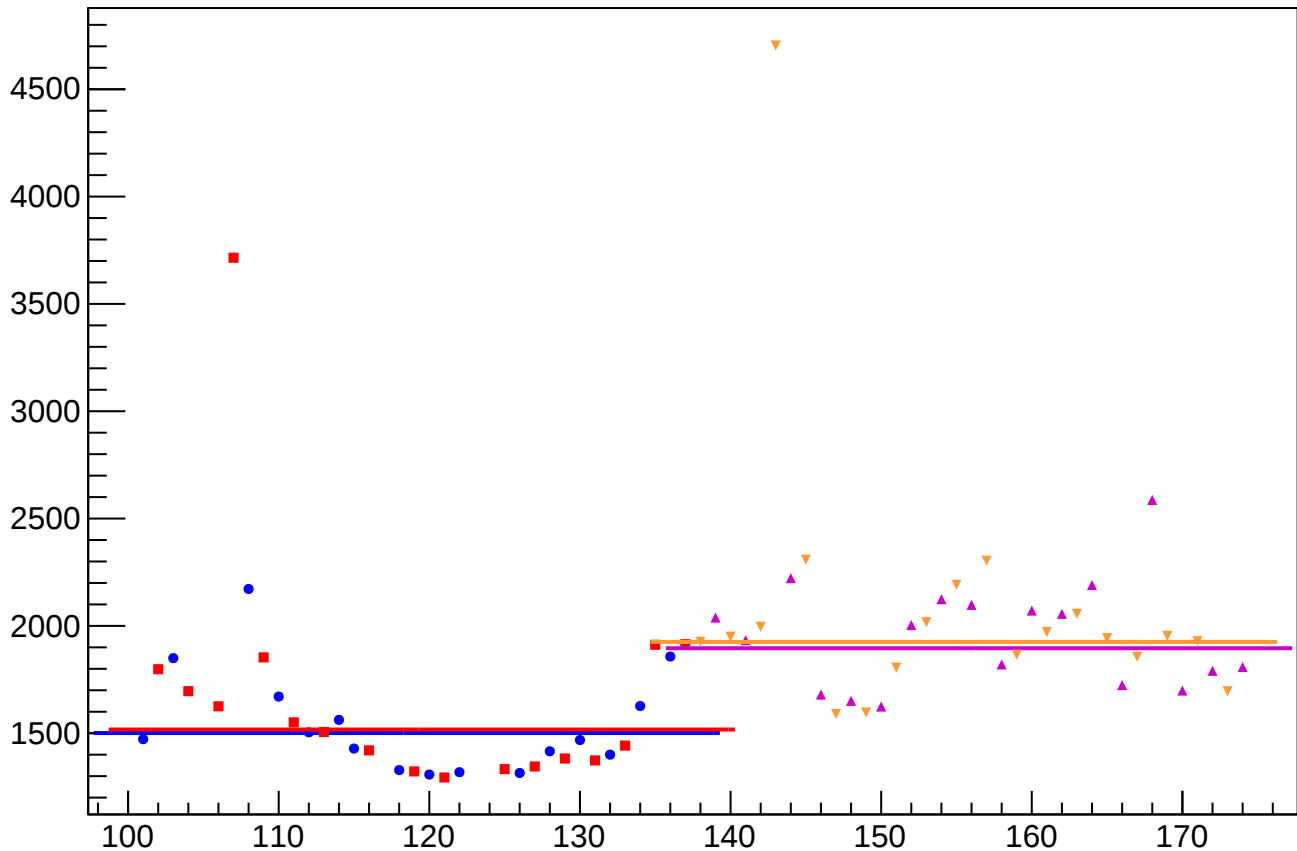
Right: 2204.149+/-414.681  $\chi^2/\text{NDF}$ : 33.8/32

In: 1906.652+/-383.595  $\chi^2/\text{NDF}$ :20.2/33

Out: 2154.733+/-387.614  $\chi^2/\text{NDF}$ :57.3/35

All: 2029.399+/-272.652  $\chi^2/\text{NDF}$ : 77.7/69

# asym\_usl\_rms vs Slug, Sign Corrected



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

Left Out: 1925.150+/-0.365  $\chi^2/\text{NDF}$ : 835433.2/18

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

Left In: 1895.778+/-0.359  $\chi^2/\text{NDF}$ : 399614.3/17

Left: 1910.203+/-0.256  $\chi^2/\text{NDF}$ : 1238340.7/36

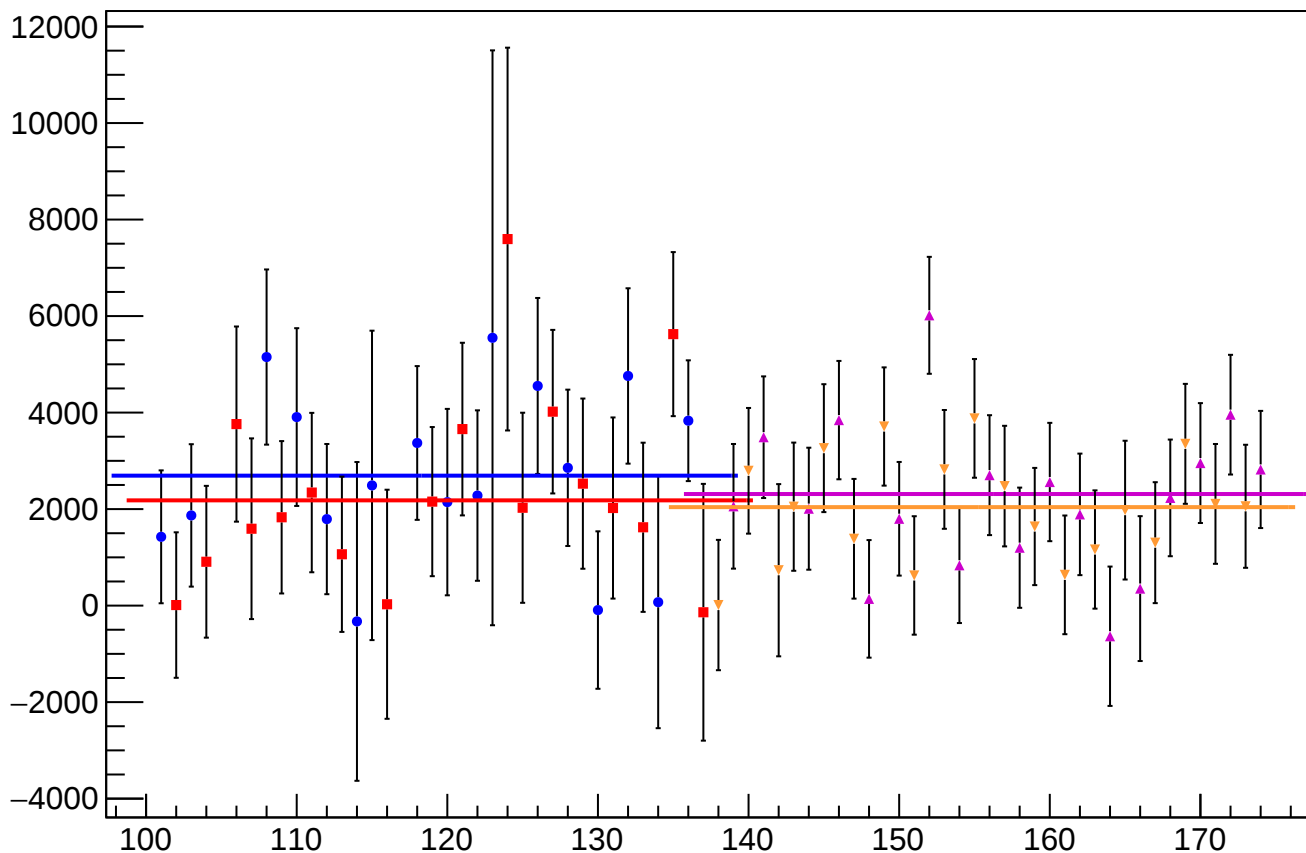
Right: 1508.969+/-0.293  $\chi^2/\text{NDF}$ : 732045.6/32

In: 1726.676+/-0.271  $\chi^2/\text{NDF}$ : 1174936.6/33

Out: 1747.030+/-0.274  $\chi^2/\text{NDF}$ : 1855612.6/35

All: 1736.747+/-0.193  $\chi^2/\text{NDF}$ : 3033335.2/69

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



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

Left Out: 2040.700 $\pm$ 294.030  $\chi^2$ /NDF:13.6/18

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

Left In: 2312.402 $\pm$ 295.315  $\chi^2$ /NDF:25.9/17

Left: 2175.959 $\pm$ 208.363  $\chi^2$ /NDF: 39.9/36

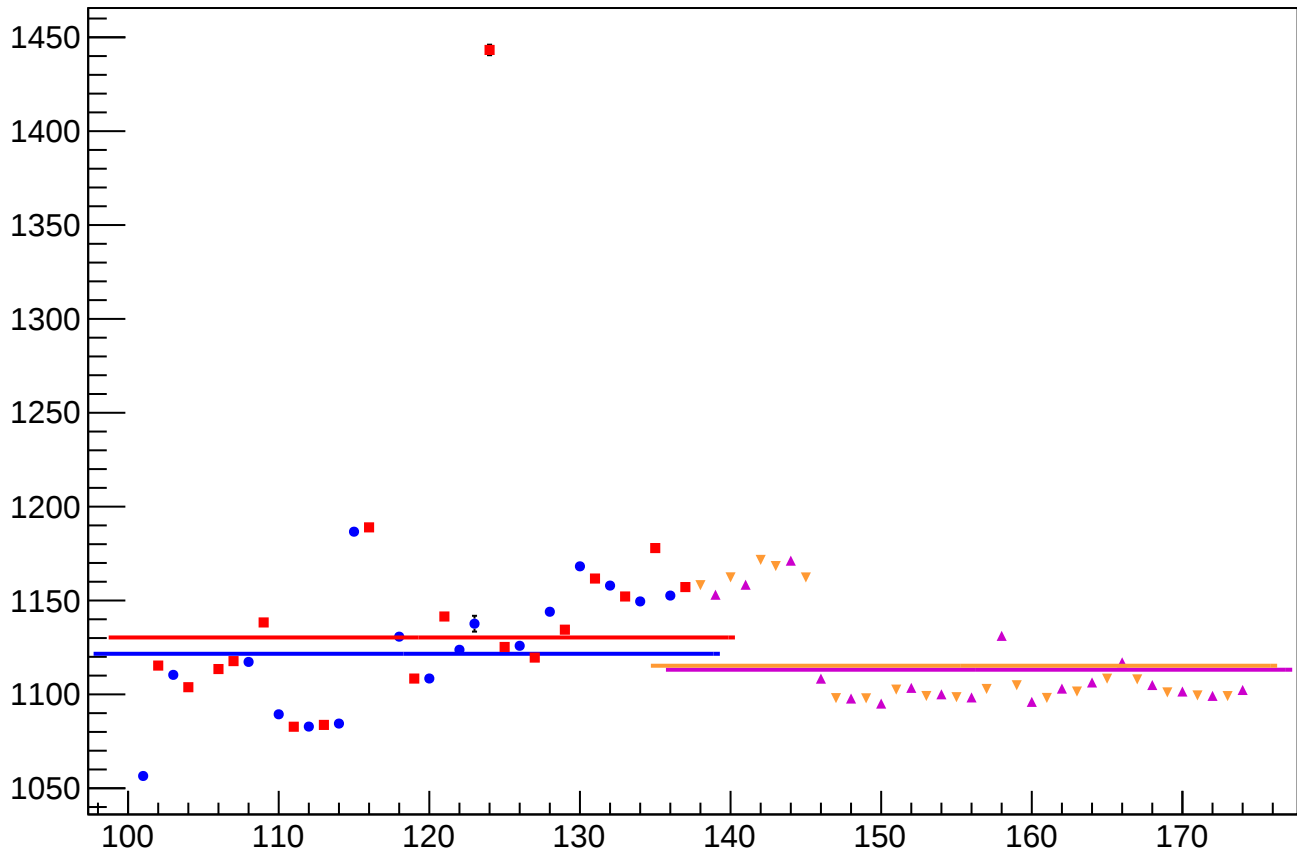
Right: 2432.714 $\pm$ 303.341  $\chi^2$ /NDF: 26.5/34

In: 2433.379 $\pm$ 243.905  $\chi^2$ /NDF:38.7/34

Out: 2086.044 $\pm$ 241.886  $\chi^2$ /NDF:27.2/36

All: 2258.267 $\pm$ 171.749  $\chi^2$ /NDF: 66.9/71

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



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

Left Out: 1115.260 $\pm$ 0.208  $\chi^2/\text{NDF}$ :16063.8/18

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

Left In: 1113.134 $\pm$ 0.209  $\chi^2/\text{NDF}$ :11851.4/17

Left: 1114.202 $\pm$ 0.147  $\chi^2/\text{NDF}$ : 27967.4/36

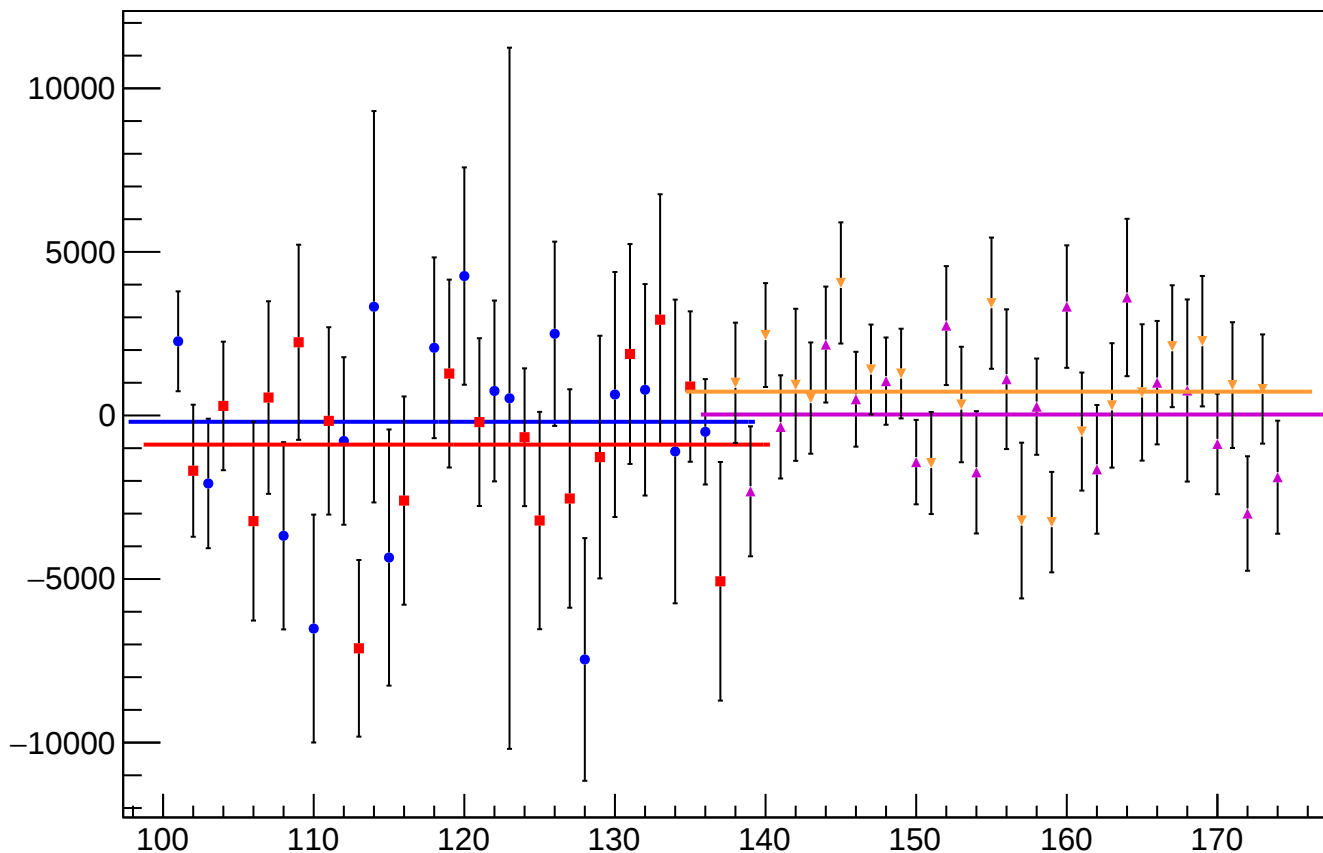
Right: 1126.044 $\pm$ 0.214  $\chi^2/\text{NDF}$ : 33666.6/34

In: 1115.833 $\pm$ 0.172  $\chi^2/\text{NDF}$ :24357.4/34

Out: 1120.127 $\pm$ 0.171  $\chi^2/\text{NDF}$ :39035.0/36

All: 1117.998 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 63704.9/71

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



Right In: -193.332 $\pm$ 660.359  $\chi^2$ /NDF: 17.4/16

Left Out: 727.501 $\pm$ 403.567  $\chi^2$ /NDF:19.8/18

Right Out: -891.057 $\pm$ 649.405  $\chi^2$ /NDF: 13.1/17

Left In: 29.715 $\pm$ 405.124  $\chi^2$ /NDF:19.2/17

Left: 379.951 $\pm$ 285.914  $\chi^2$ /NDF: 40.5/36

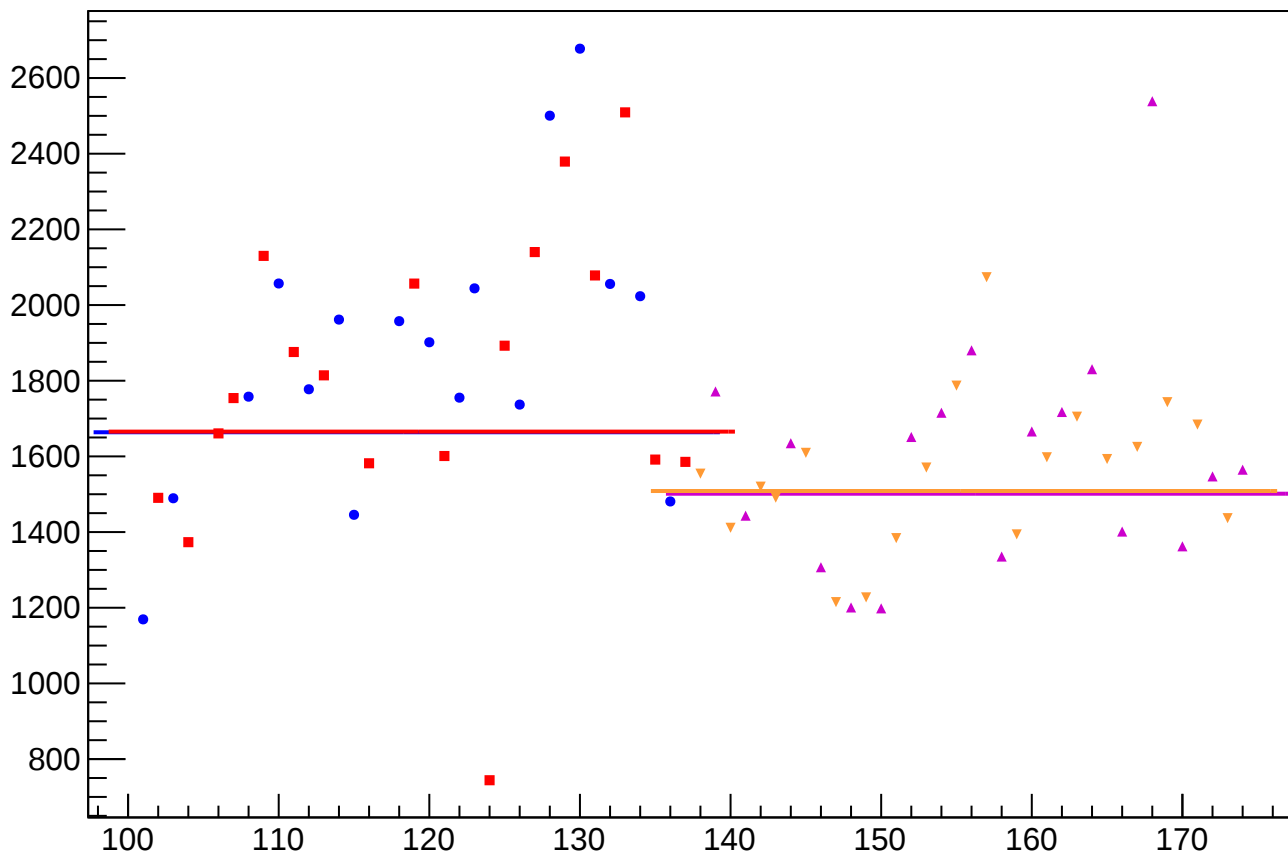
Right: -548.030 $\pm$ 463.023  $\chi^2$ /NDF: 31.0/34

In: -31.278 $\pm$ 345.319  $\chi^2$ /NDF:36.7/34

Out: 276.573 $\pm$ 342.771  $\chi^2$ /NDF:37.4/36

All: 123.788 $\pm$ 243.272  $\chi^2$ /NDF: 74.5/71

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



Right In: 1663.779+/-0.467  $\chi^2/\text{NDF}$ : 622477.6/16

Left Out: 1508.504+/-0.285  $\chi^2/\text{NDF}$ : 453435.1/18

Right Out: 1665.466+/-0.459  $\chi^2/\text{NDF}$ : 802791.6/17

Left In: 1501.372+/-0.286  $\chi^2/\text{NDF}$ : 807888.4/17

Left: 1504.952+/-0.202  $\chi^2/\text{NDF}$ : 1261634.6/36

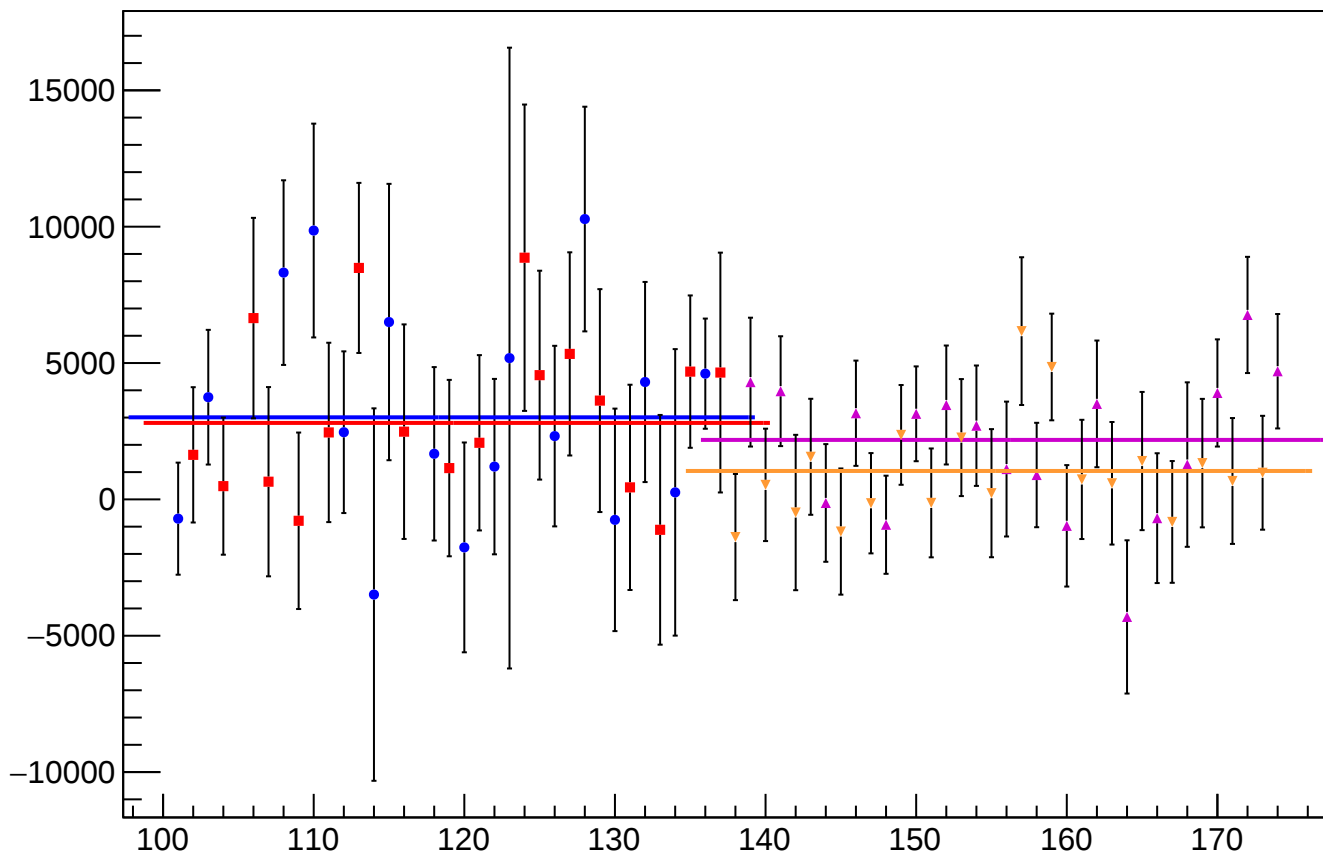
Right: 1664.637+/-0.327  $\chi^2/\text{NDF}$ : 1425275.8/34

In: 1545.783+/-0.244  $\chi^2/\text{NDF}$ : 1518257.0/34

Out: 1552.233+/-0.242  $\chi^2/\text{NDF}$ : 1340515.0/36

All: 1549.032+/-0.172  $\chi^2/\text{NDF}$ : 2859123.5/71

# asym\_usr\_mean vs Slug, Sign Corrected



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

Left Out: 1041.995+/-502.759  $\chi^2/\text{NDF}$ : 12.4/18

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

Left In: 2180.938+/-505.925  $\chi^2/\text{NDF}$ : 23.4/17

Left: 1607.892+/-356.619  $\chi^2/\text{NDF}$ : 38.3/36

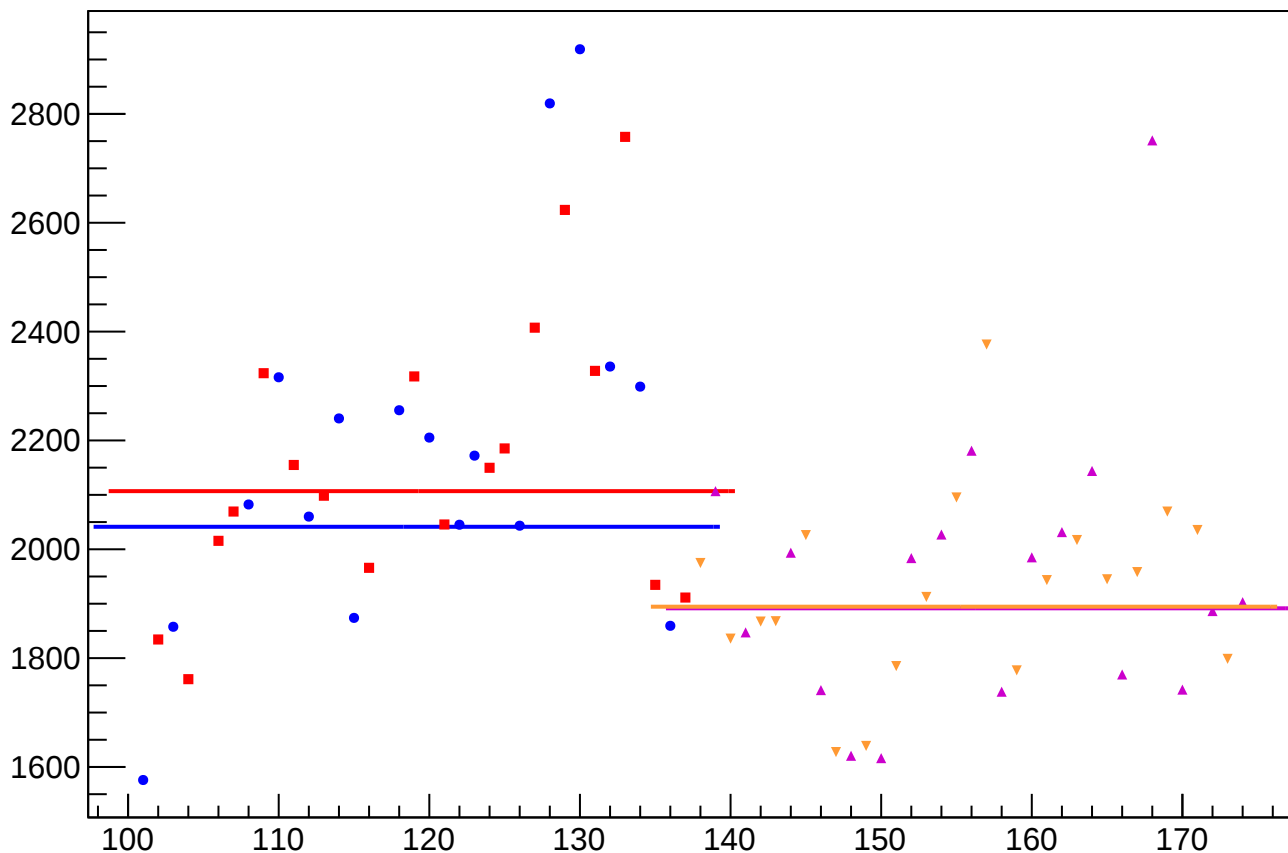
Right: 2906.573+/-565.416  $\chi^2/\text{NDF}$ : 28.6/34

In: 2417.704+/-427.540  $\chi^2/\text{NDF}$ : 41.5/34

Out: 1541.227+/-425.616  $\chi^2/\text{NDF}$ : 27.0/36

All: 1977.489+/-301.634  $\chi^2/\text{NDF}$ : 70.7/71

# asym\_usr\_rms vs Slug, Sign Corrected



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

Left Out: 1894.526 $\pm$ 0.356  $\chi^2$ /NDF: 215473.4/18

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

Left In: 1891.536 $\pm$ 0.358  $\chi^2$ /NDF: 387396.7/17

Left: 1893.040 $\pm$ 0.252  $\chi^2$ /NDF: 602905.2/36

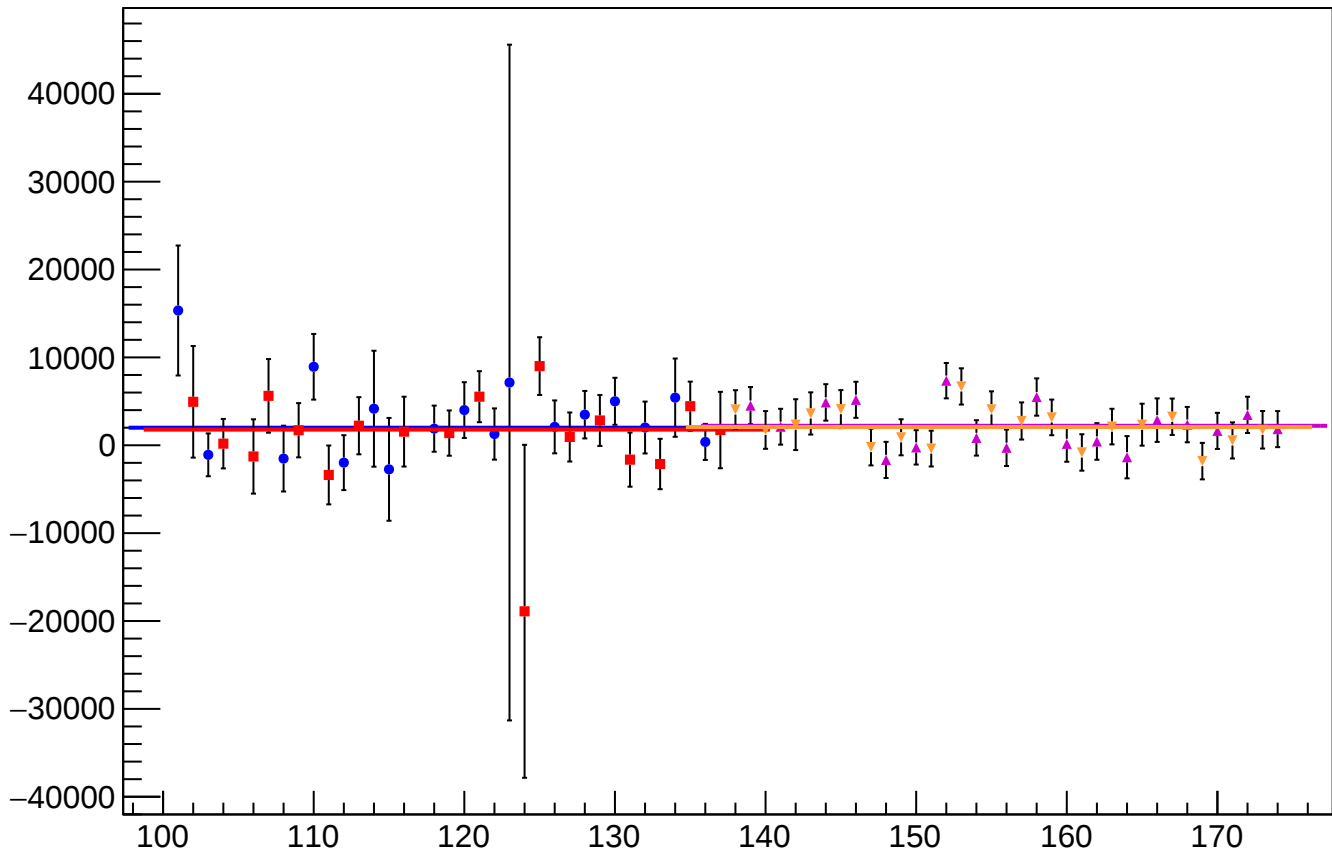
Right: 2074.099 $\pm$ 0.400  $\chi^2$ /NDF: 541866.5/34

In: 1934.362 $\pm$ 0.302  $\chi^2$ /NDF: 775965.1/34

Out: 1954.683 $\pm$ 0.301  $\chi^2$ /NDF: 513256.6/36

All: 1944.568 $\pm$ 0.213  $\chi^2$ /NDF: 1291491.0/71

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



Right In: 1999.899 $\pm$ 781.612  $\chi^2$ /NDF: 14.8/16

Left Out: 2077.552 $\pm$ 490.826  $\chi^2$ /NDF:17.8/18

Right Out: 1781.823 $\pm$ 781.836  $\chi^2$ /NDF: 16.3/17

Left In: 2216.962 $\pm$ 491.293  $\chi^2$ /NDF:25.4/17

Left: 2147.191 $\pm$ 347.231  $\chi^2$ /NDF: 43.3/36

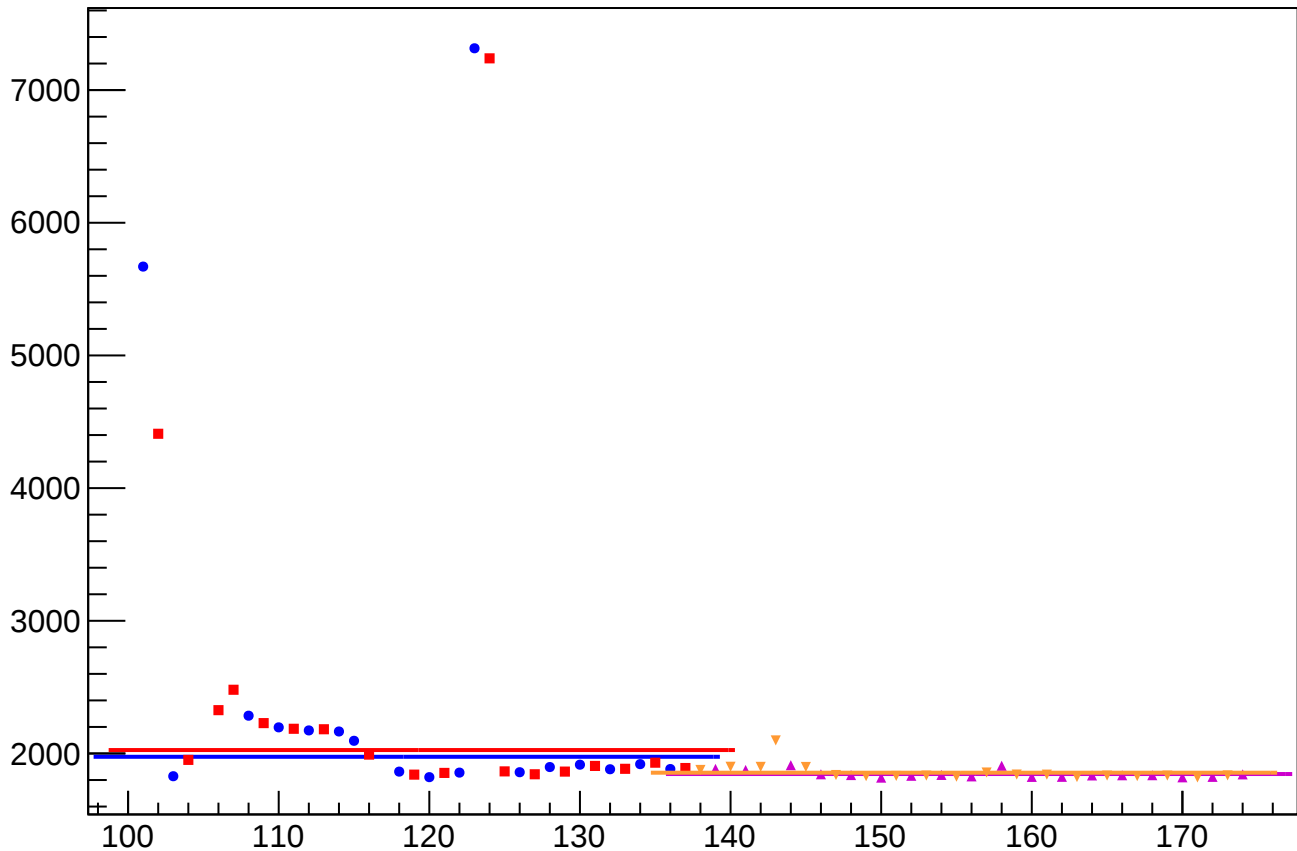
Right: 1890.892 $\pm$ 552.762  $\chi^2$ /NDF: 31.1/34

In: 2155.489 $\pm$ 415.948  $\chi^2$ /NDF:40.2/34

Out: 1993.950 $\pm$ 415.698  $\chi^2$ /NDF:34.2/36

All: 2074.671 $\pm$ 294.031  $\chi^2$ /NDF: 74.5/71

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



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

Left Out: 1855.154+/-0.347  $\chi^2/\text{NDF}$ : 26414.7/18

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

Left In: 1845.201+/-0.347  $\chi^2/\text{NDF}$ : 6597.6/17

Left: 1850.182+/-0.246  $\chi^2/\text{NDF}$ : 33423.1/36

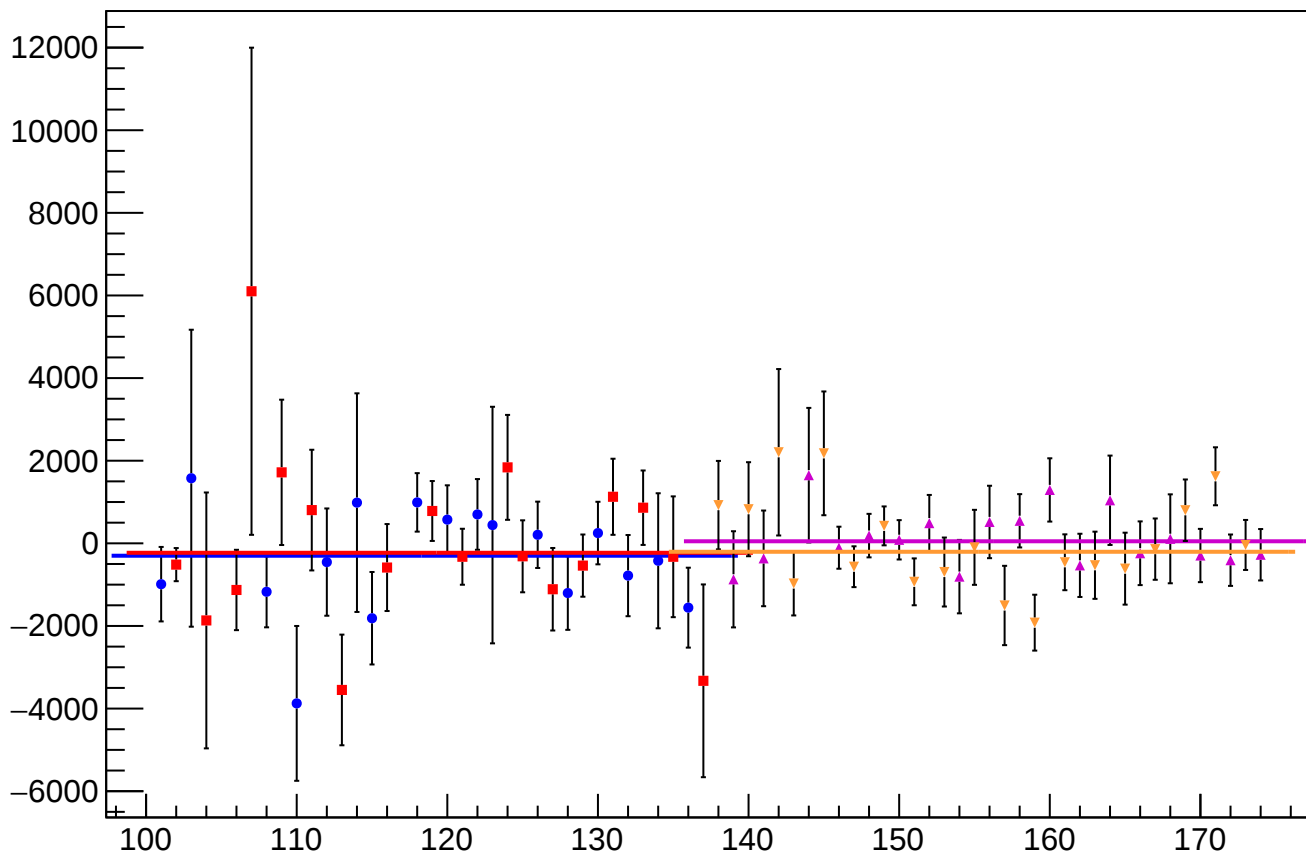
Right: 2000.483+/-0.391  $\chi^2/\text{NDF}$ : 1139433.4/34

In: 1881.991+/-0.294  $\chi^2/\text{NDF}$ : 646031.2/34

Out: 1903.416+/-0.294  $\chi^2/\text{NDF}$ : 630199.6/36

All: 1892.710+/-0.208  $\chi^2/\text{NDF}$ : 1278885.5/71

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



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

Left Out: -204.276 $\pm$ 168.930  $\chi^2$ /NDF:28.7/18

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

Left In: 49.852 $\pm$ 168.455  $\chi^2$ /NDF:9.4/17

Left: -76.854 $\pm$ 119.283  $\chi^2$ /NDF: 39.2/36

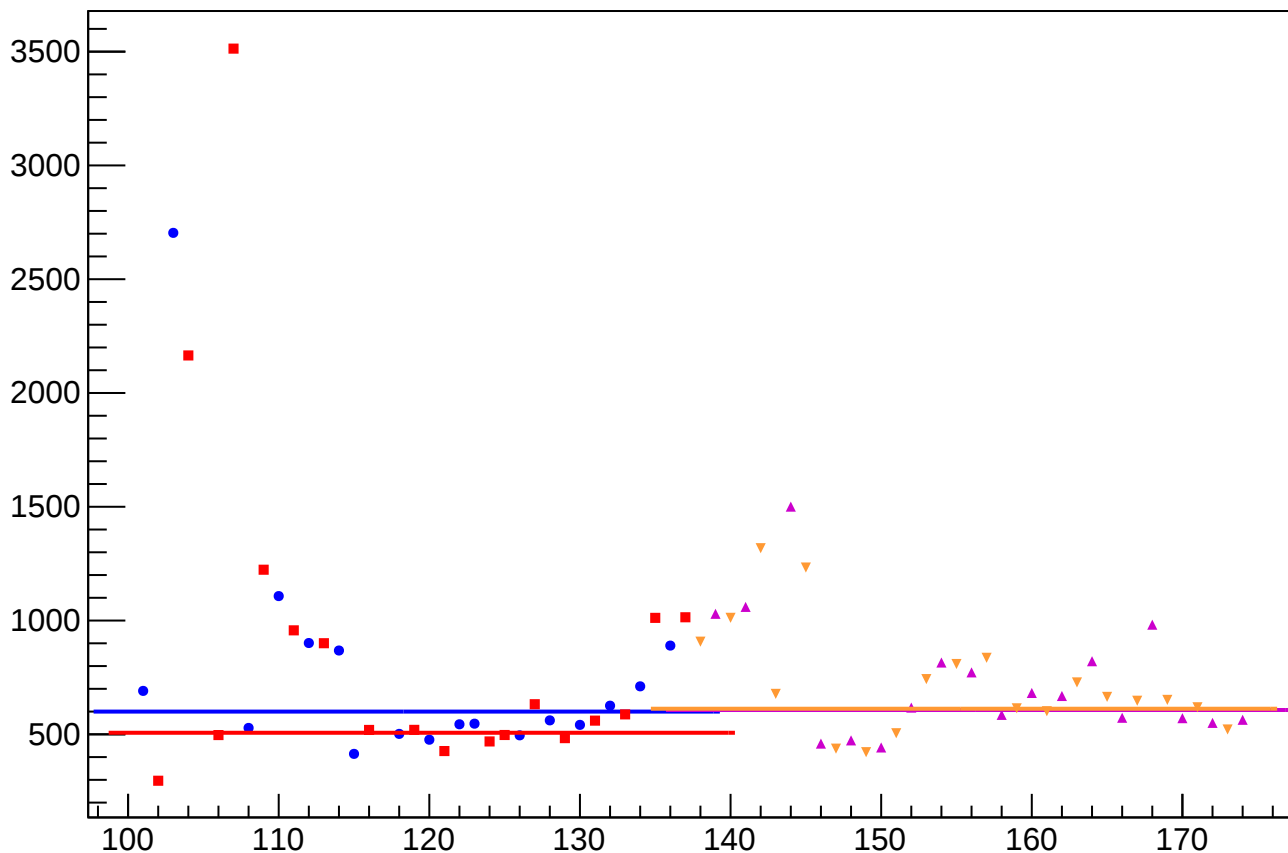
Right: -259.640 $\pm$ 162.327  $\chi^2$ /NDF: 39.2/34

In: -61.447 $\pm$ 139.101  $\chi^2$ /NDF:28.1/34

Out: -213.601 $\pm$ 132.979  $\chi^2$ /NDF:50.4/36

All: -140.946 $\pm$ 96.122  $\chi^2$ /NDF: 79.2/71

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



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

Left Out: 612.513+/-0.119  $\chi^2/\text{NDF}$ : 2008226.9/18

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

Left In: 606.908+/-0.119  $\chi^2/\text{NDF}$ : 2281656.2/17

Left: 609.703+/-0.084  $\chi^2/\text{NDF}$ : 4290987.4/36

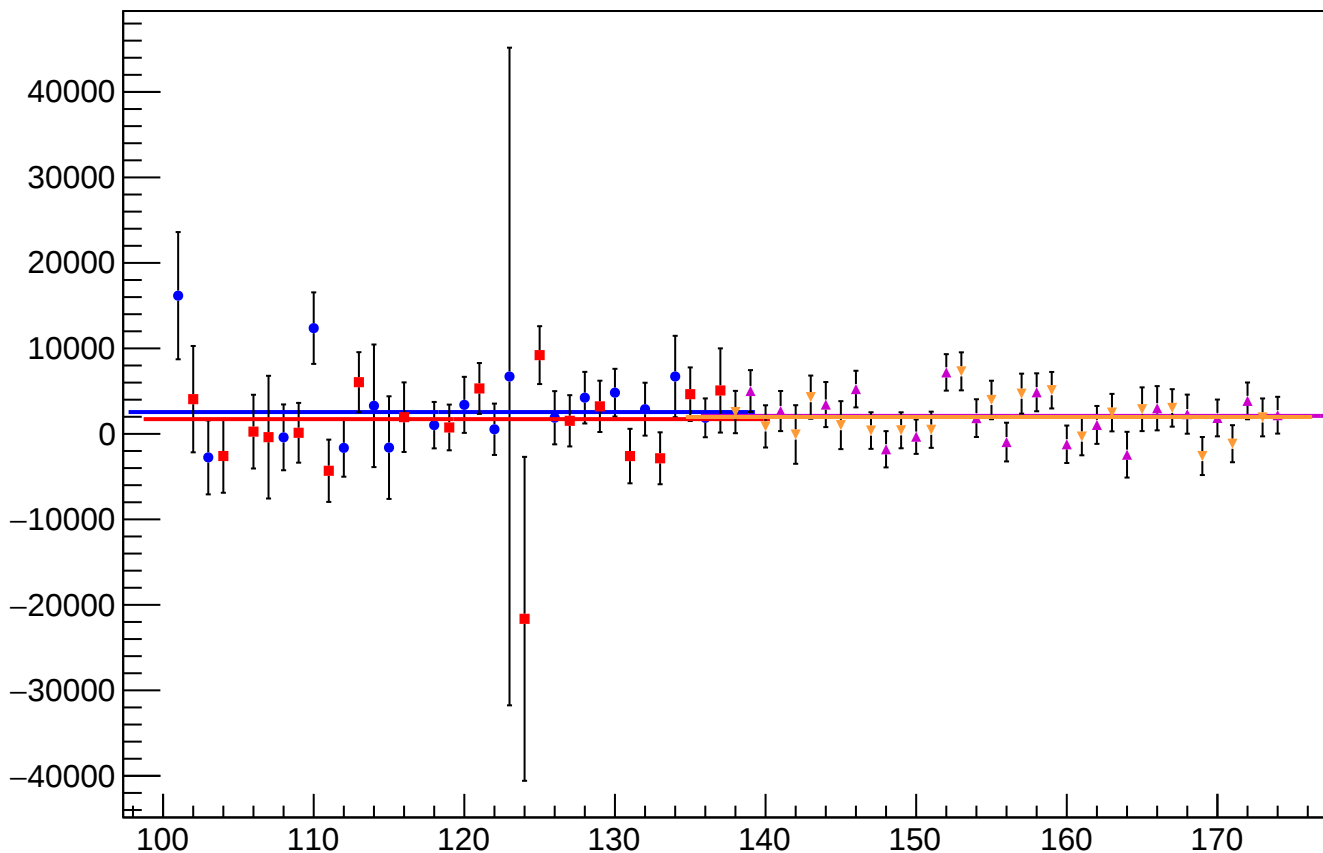
Right: 547.202+/-0.115  $\chi^2/\text{NDF}$ : 4303374.7/34

In: 604.695+/-0.098  $\chi^2/\text{NDF}$ : 3663790.0/34

Out: 572.335+/-0.094  $\chi^2/\text{NDF}$ : 5066550.1/36

All: 587.787+/-0.068  $\chi^2/\text{NDF}$ : 8786894.2/71

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



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

Left Out: 1976.752 $\pm$ 530.004  $\chi^2/\text{NDF}$ : 21.0/18

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

Left In: 2105.741 $\pm$ 531.348  $\chi^2/\text{NDF}$ : 24.0/17

Left: 2041.083 $\pm$ 375.244  $\chi^2/\text{NDF}$ : 45.1/36

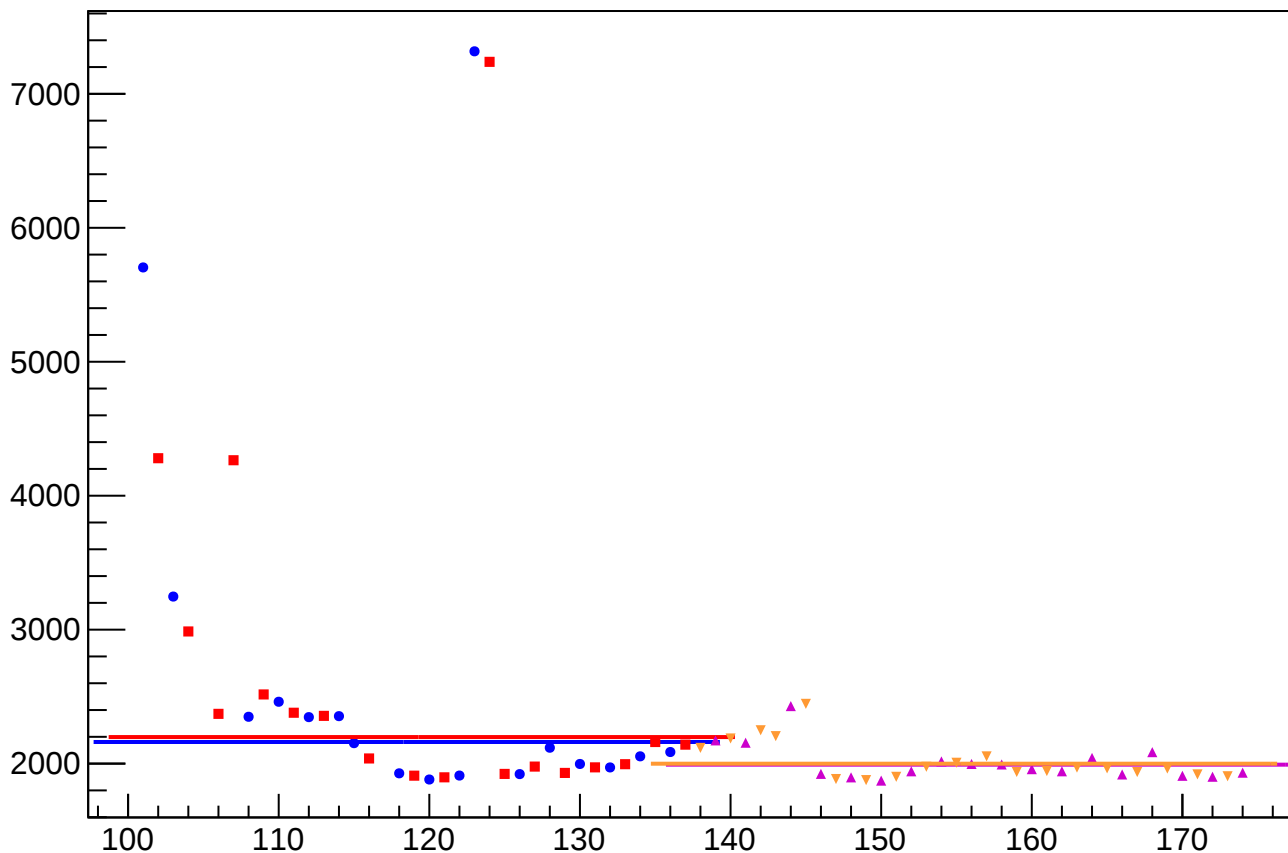
Right: 2138.530 $\pm$ 606.010  $\chi^2/\text{NDF}$ : 35.7/34

In: 2229.699 $\pm$ 451.870  $\chi^2/\text{NDF}$ : 39.9/34

Out: 1907.462 $\pm$ 450.498  $\chi^2/\text{NDF}$ : 40.6/36

All: 2068.090 $\pm$ 319.034  $\chi^2/\text{NDF}$ : 80.8/71

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



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

Left Out: 1999.322 $\pm$ 0.375  $\chi^2/\text{NDF}$ : 120946.3/18

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

Left In: 1992.078 $\pm$ 0.376  $\chi^2/\text{NDF}$ : 105261.2/17

Left: 1995.709 $\pm$ 0.265  $\chi^2/\text{NDF}$ : 226393.8/36

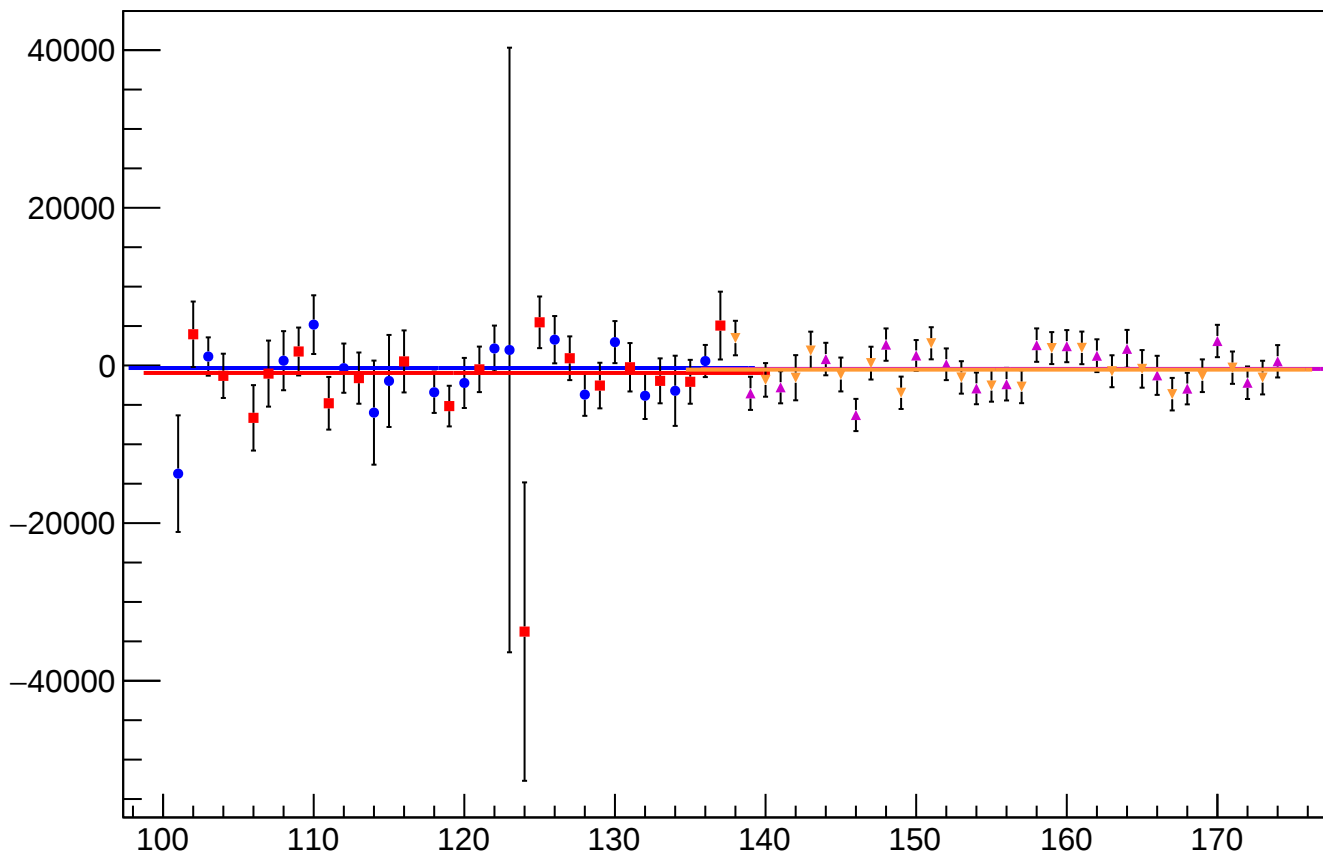
Right: 2179.883 $\pm$ 0.429  $\chi^2/\text{NDF}$ : 1446967.4/34

In: 2038.948 $\pm$ 0.320  $\chi^2/\text{NDF}$ : 872739.6/34

Out: 2054.510 $\pm$ 0.319  $\chi^2/\text{NDF}$ : 932961.3/36

All: 2046.753 $\pm$ 0.226  $\chi^2/\text{NDF}$ : 1806890.5/71

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



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

Left Out: -529.109+/-489.466  $\chi^2/\text{NDF}$ : 18.4/18

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

Left In: -439.562+/-490.223  $\chi^2/\text{NDF}$ : 28.9/17

Left: -484.405+/-346.372  $\chi^2/\text{NDF}$ : 47.3/36

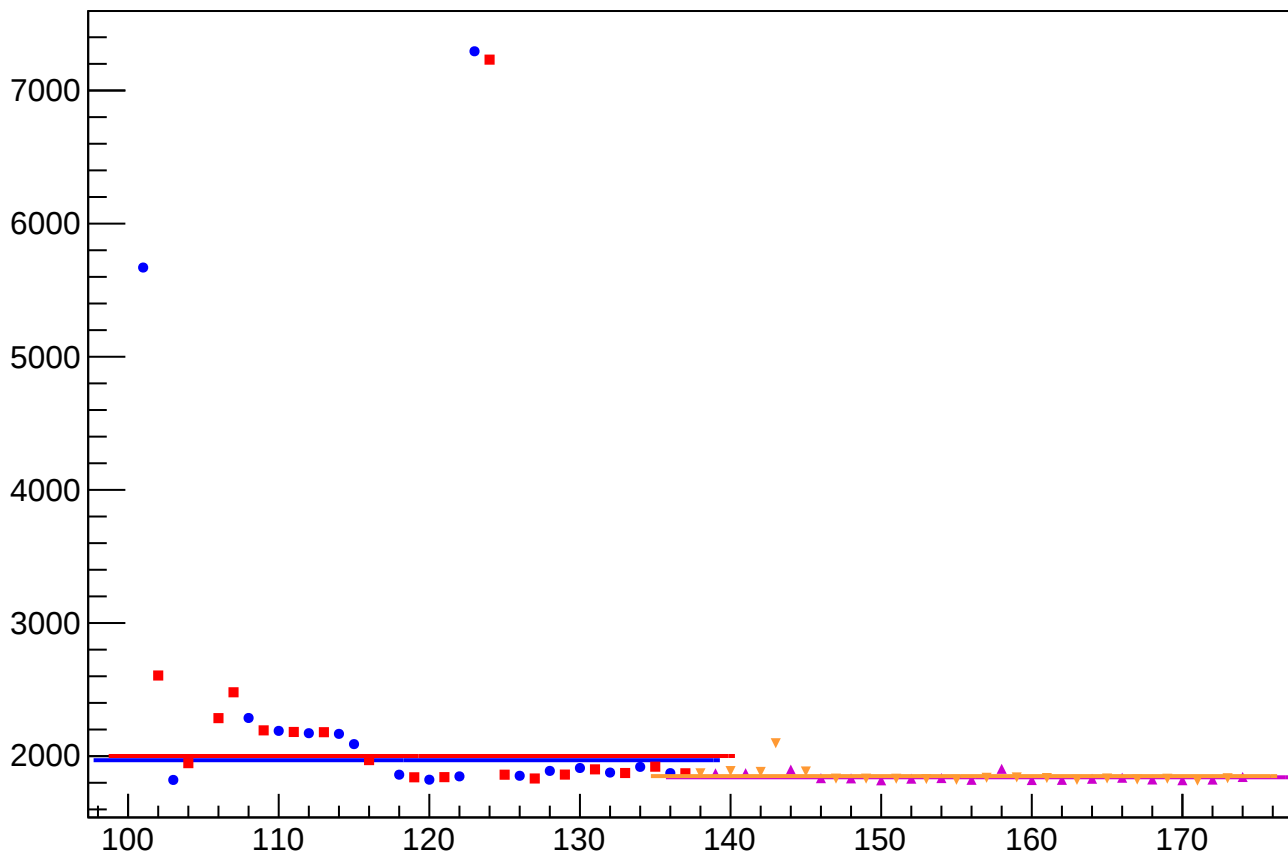
Right: -641.256+/-547.905  $\chi^2/\text{NDF}$ : 34.3/34

In: -406.736+/-414.982  $\chi^2/\text{NDF}$ : 44.7/34

Out: -650.548+/-413.117  $\chi^2/\text{NDF}$ : 36.8/36

All: -529.191+/-292.775  $\chi^2/\text{NDF}$ : 81.7/71

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



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

Left Out: 1850.093+/-0.346  $\chi^2/\text{NDF}$ : 25689.2/18

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

Left In: 1841.233+/-0.347  $\chi^2/\text{NDF}$ : 5746.5/17

Left: 1845.670+/-0.245  $\chi^2/\text{NDF}$ : 31762.9/36

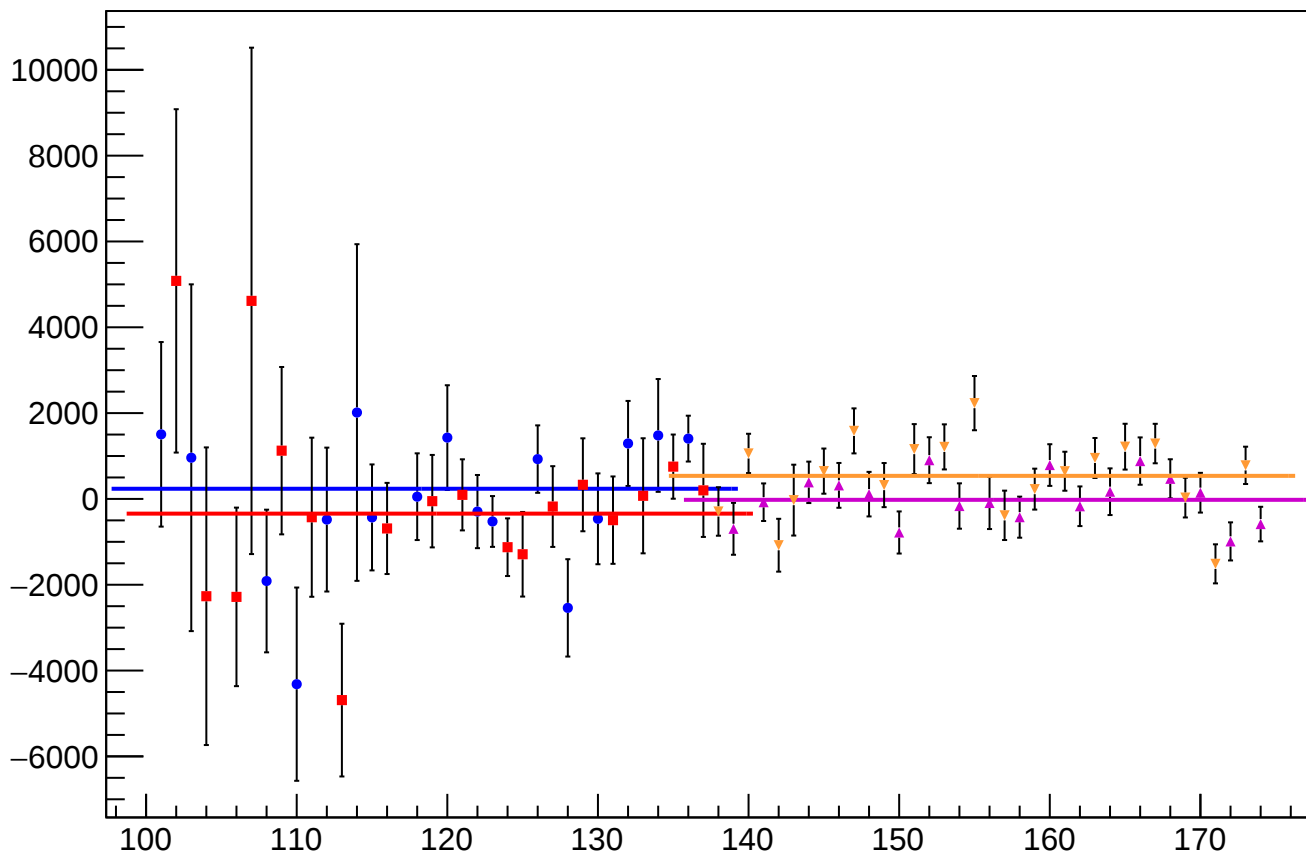
Right: 1985.524+/-0.387  $\chi^2/\text{NDF}$ : 895106.7/34

In: 1877.584+/-0.293  $\chi^2/\text{NDF}$ : 647358.3/34

Out: 1893.551+/-0.292  $\chi^2/\text{NDF}$ : 371124.8/36

All: 1885.603+/-0.207  $\chi^2/\text{NDF}$ : 1019970.2/71

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



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

Left Out: 537.603 $\pm$ 117.862  $\chi^2/\text{NDF}$ : 55.0/18

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

Left In: -21.064 $\pm$ 116.062  $\chi^2/\text{NDF}$ : 22.4/17

Left: 253.969 $\pm$ 82.697  $\chi^2/\text{NDF}$ : 88.7/36

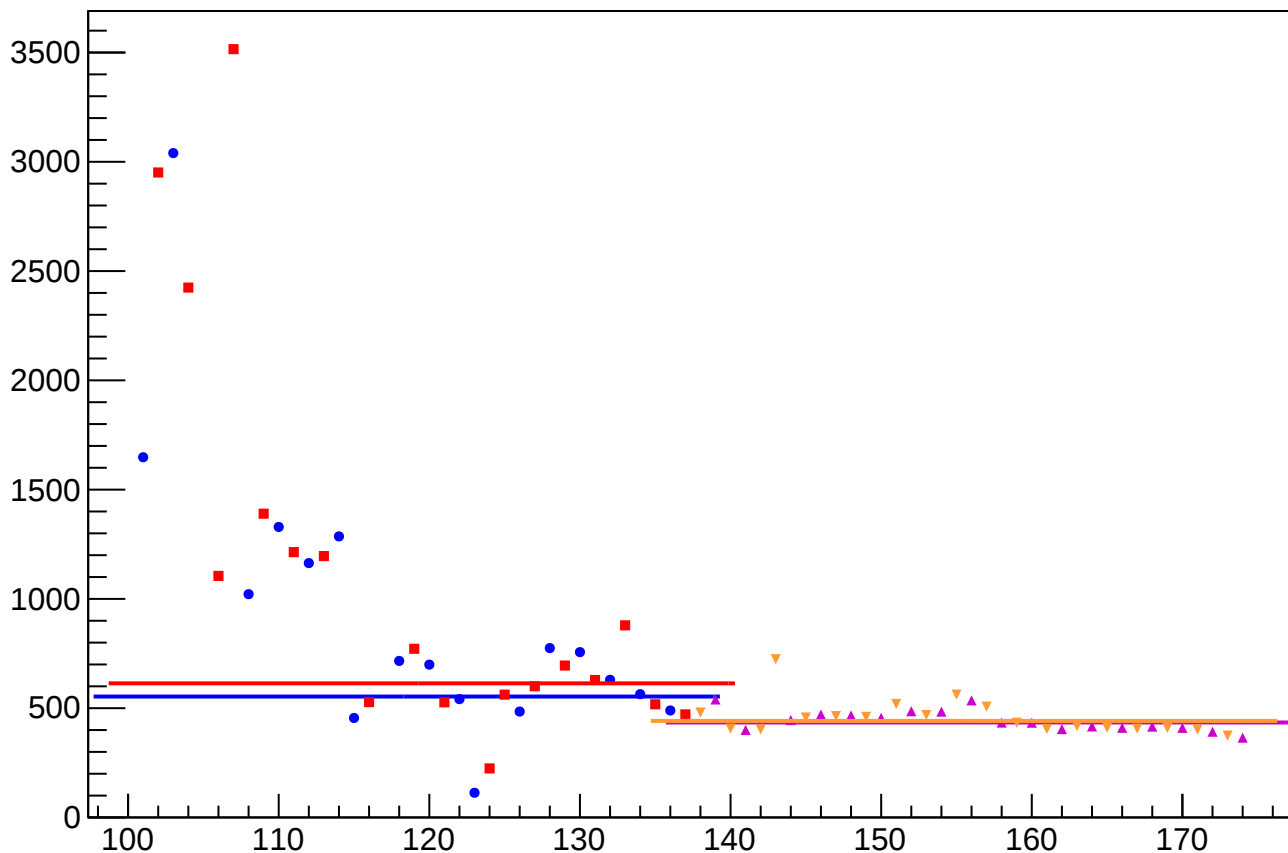
Right: -30.610 $\pm$ 182.443  $\chi^2/\text{NDF}$ : 42.3/34

In: 25.092 $\pm$ 105.166  $\chi^2/\text{NDF}$ : 47.1/34

Out: 395.437 $\pm$ 107.927  $\chi^2/\text{NDF}$ : 79.9/36

All: 205.465 $\pm$ 75.321  $\chi^2/\text{NDF}$ : 133.0/71

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



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

Left Out: 441.764+/-0.083  $\chi^2/\text{NDF}$ : 519007.4/18

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

Left In: 434.524+/-0.082  $\chi^2/\text{NDF}$ : 287446.1/17

Left: 438.088+/-0.058  $\chi^2/\text{NDF}$ : 810285.3/36

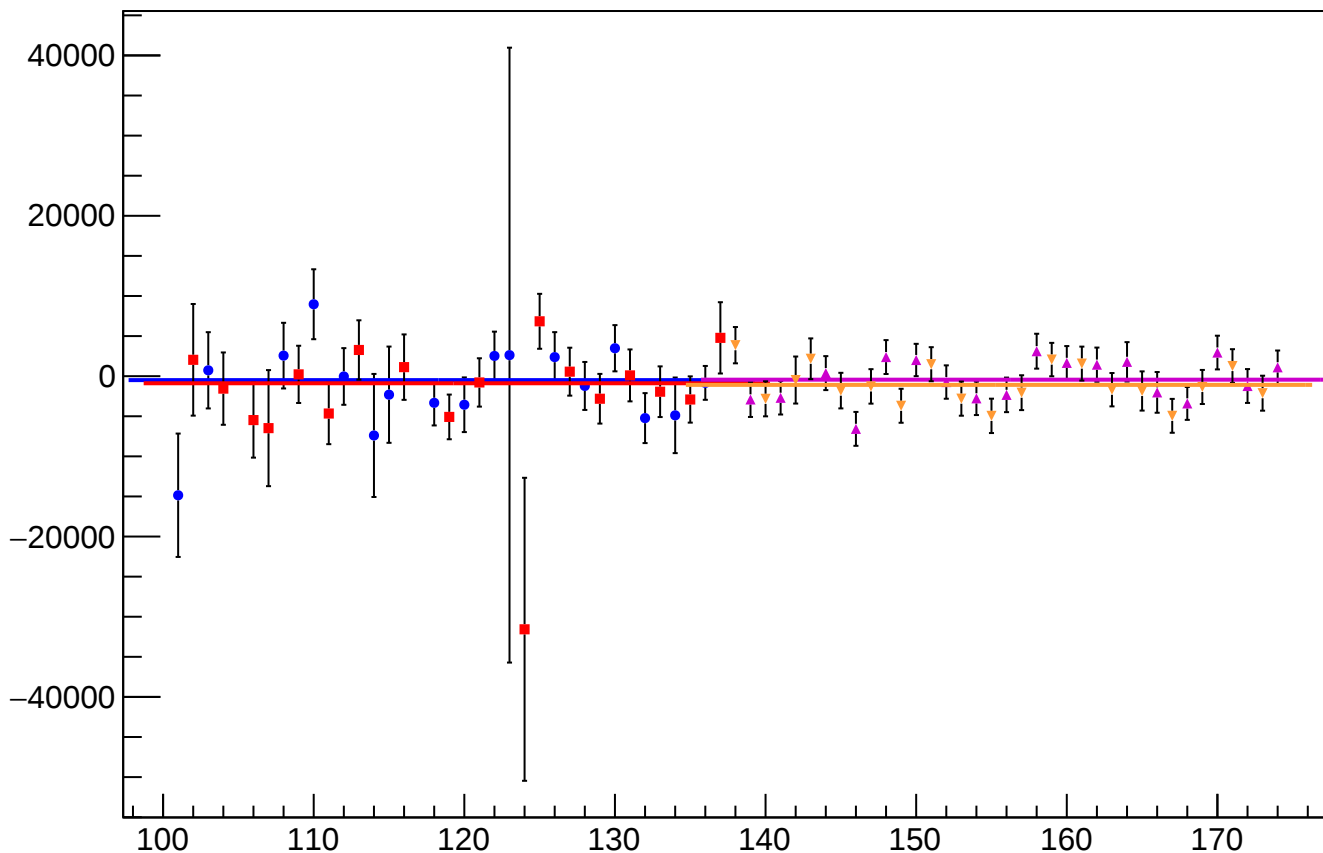
Right: 581.103+/-0.129  $\chi^2/\text{NDF}$ : 6943410.9/34

In: 455.775+/-0.074  $\chi^2/\text{NDF}$ : 4074905.0/34

Out: 469.508+/-0.076  $\chi^2/\text{NDF}$ : 4681673.6/36

All: 462.464+/-0.053  $\chi^2/\text{NDF}$ : 8773189.3/71

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



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

Left Out: -1086.044+/-504.716  $\chi^2$ /NDF:23.2/18

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

Left In: -437.584+/-504.466  $\chi^2$ /NDF:27.3/17

Left: -761.654+/-356.800  $\chi^2$ /NDF: 51.3/36

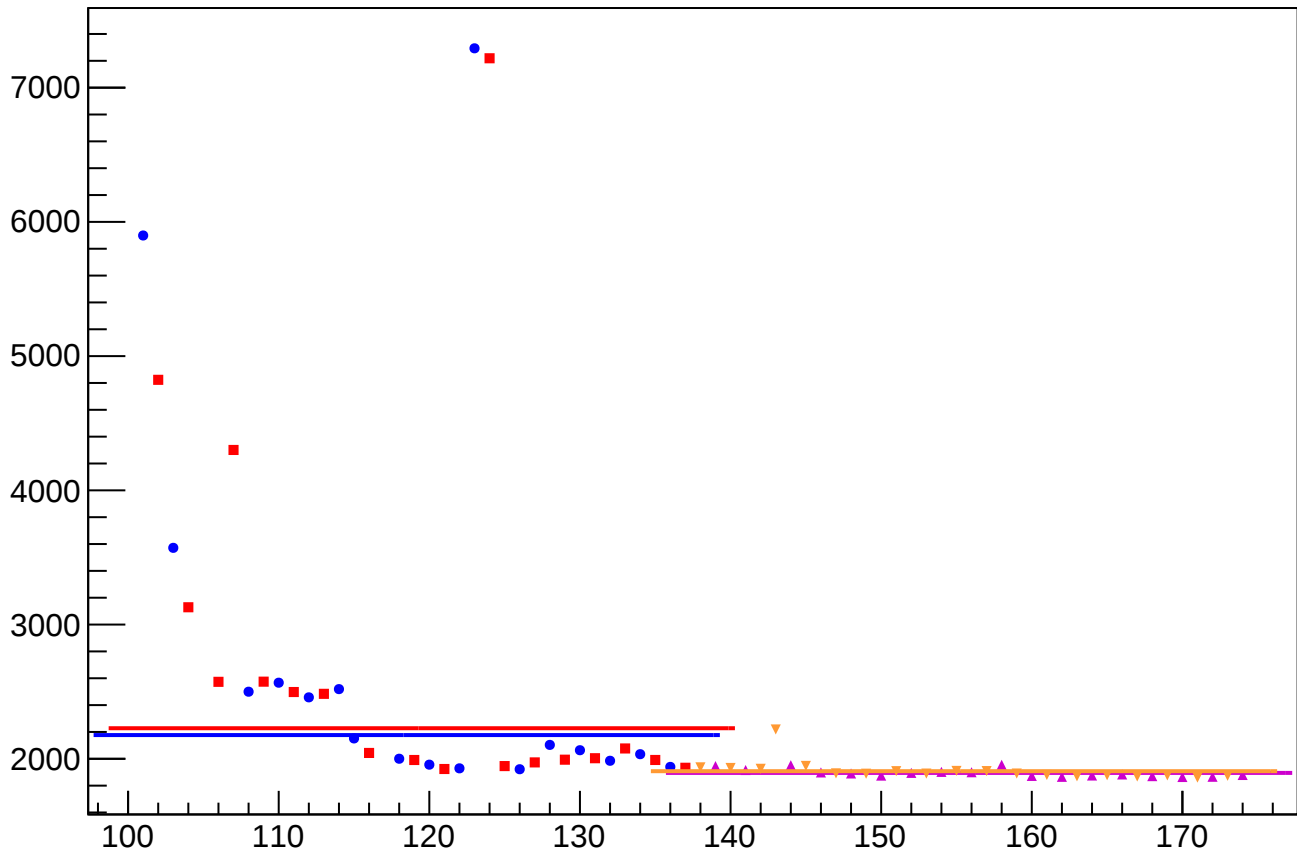
Right: -688.036+/-614.167  $\chi^2$ /NDF: 35.9/34

In: -451.309+/-436.153  $\chi^2$ /NDF:45.9/34

Out: -1035.258+/-436.461  $\chi^2$ /NDF:40.5/36

All: -743.077+/-308.516  $\chi^2$ /NDF: 87.3/71

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



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

Left Out: 1907.602 $\pm$ 0.357  $\chi^2/\text{NDF}$ : 35769.7/18

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

Left In: 1894.880 $\pm$ 0.357  $\chi^2/\text{NDF}$ : 6493.7/17

Left: 1901.238 $\pm$ 0.252  $\chi^2/\text{NDF}$ : 42899.2/36

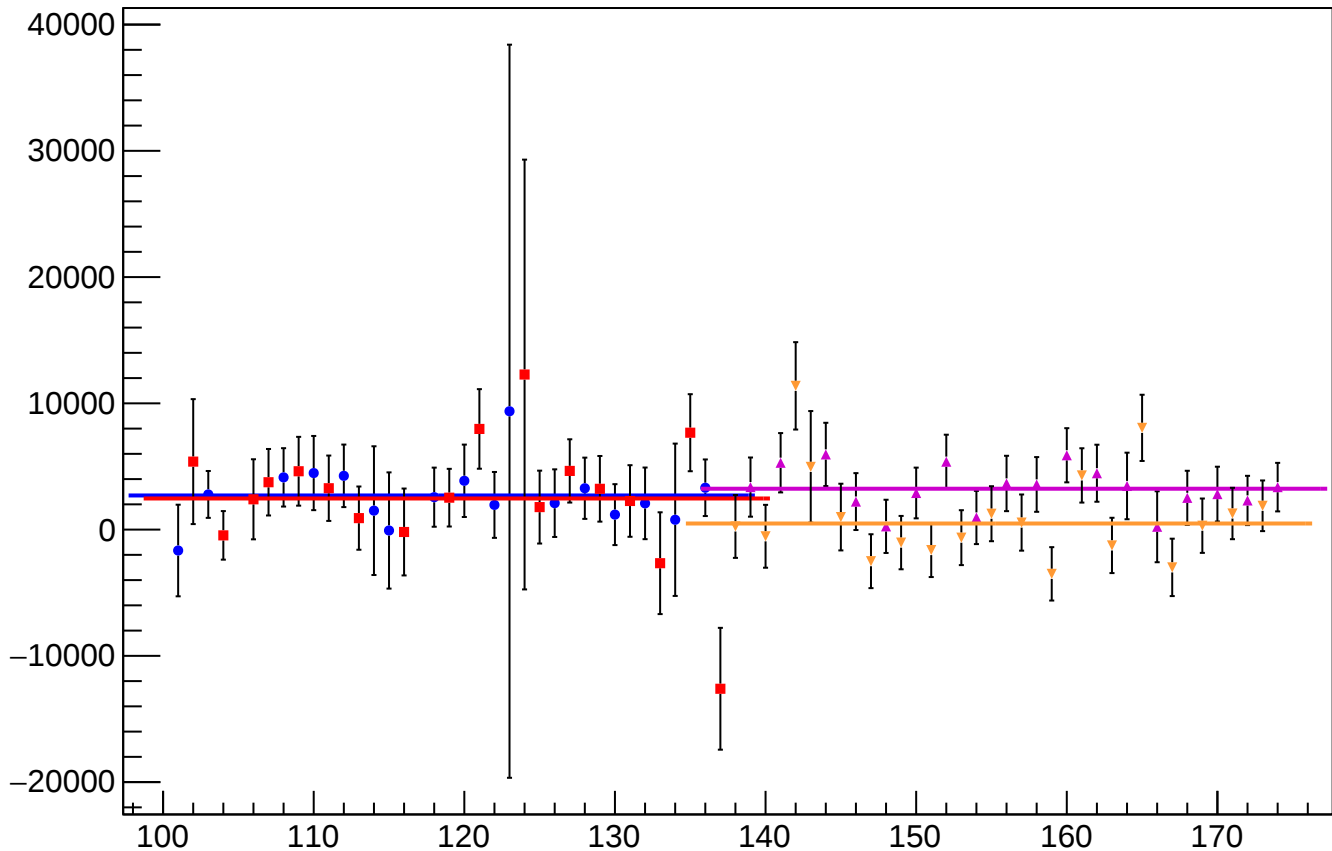
Right: 2202.183 $\pm$ 0.434  $\chi^2/\text{NDF}$ : 1631783.3/34

In: 1966.049 $\pm$ 0.308  $\chi^2/\text{NDF}$ : 966825.6/34

Out: 1988.322 $\pm$ 0.309  $\chi^2/\text{NDF}$ : 1064288.2/36

All: 1977.178 $\pm$ 0.218  $\chi^2/\text{NDF}$ : 2033719.8/71

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



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

Left Out: 482.720 $\pm$ 528.503  $\chi^2/\text{NDF}$ : 33.6/18

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

Left In: 3237.253 $\pm$ 519.541  $\chi^2/\text{NDF}$ : 9.8/17

Left: 1883.540 $\pm$ 370.499  $\chi^2/\text{NDF}$ : 57.2/36

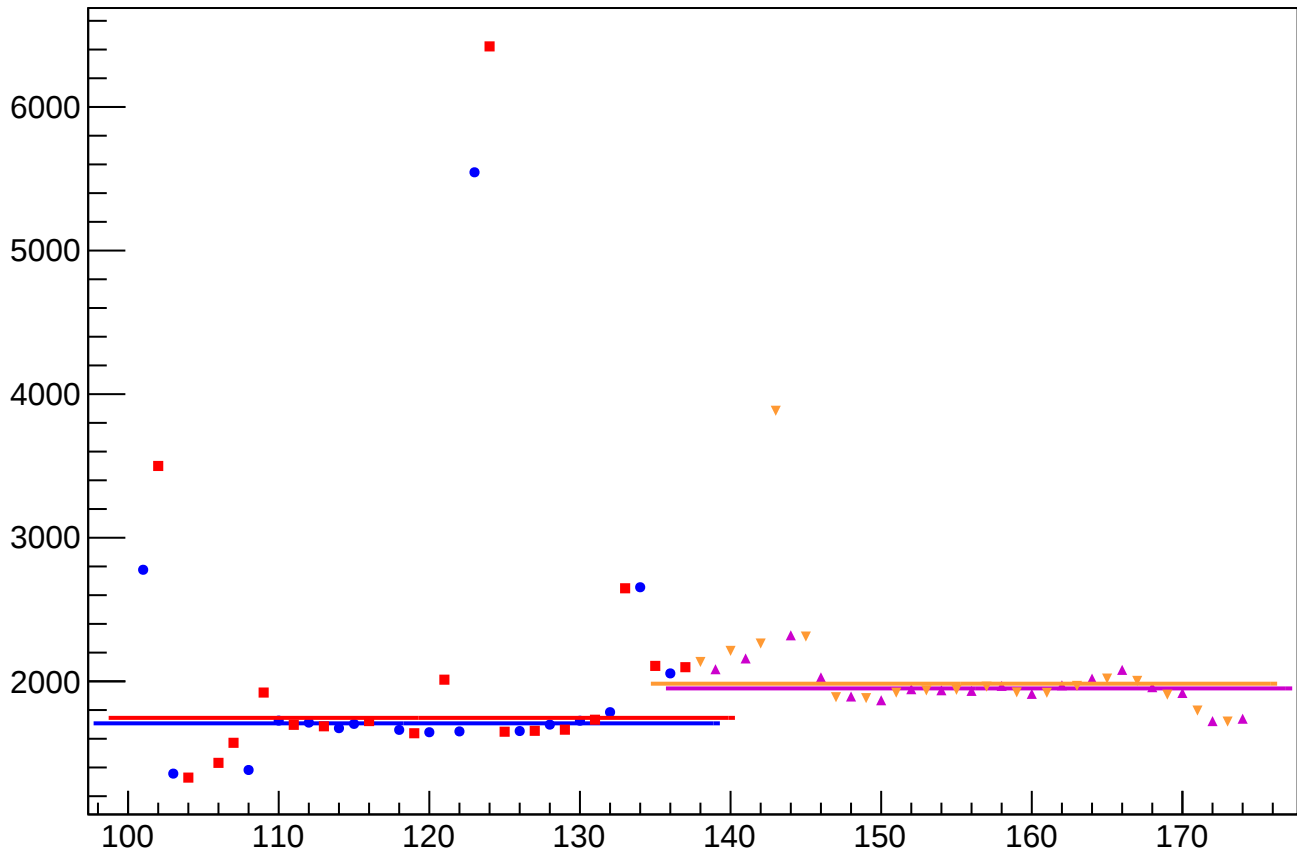
Right: 2585.697 $\pm$ 479.799  $\chi^2/\text{NDF}$ : 27.3/34

In: 3038.278 $\pm$ 411.459  $\chi^2/\text{NDF}$ : 14.2/34

Out: 1224.583 $\pm$ 418.043  $\chi^2/\text{NDF}$ : 62.1/36

All: 2145.827 $\pm$ 293.246  $\chi^2/\text{NDF}$ : 85.9/71

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



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

Left Out: 1983.536 $\pm$ 0.374  $\chi^2$ /NDF: 508022.3/18

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

Left In: 1950.603 $\pm$ 0.367  $\chi^2$ /NDF: 131508.9/17

Left: 1966.788 $\pm$ 0.262  $\chi^2$ /NDF: 643480.5/36

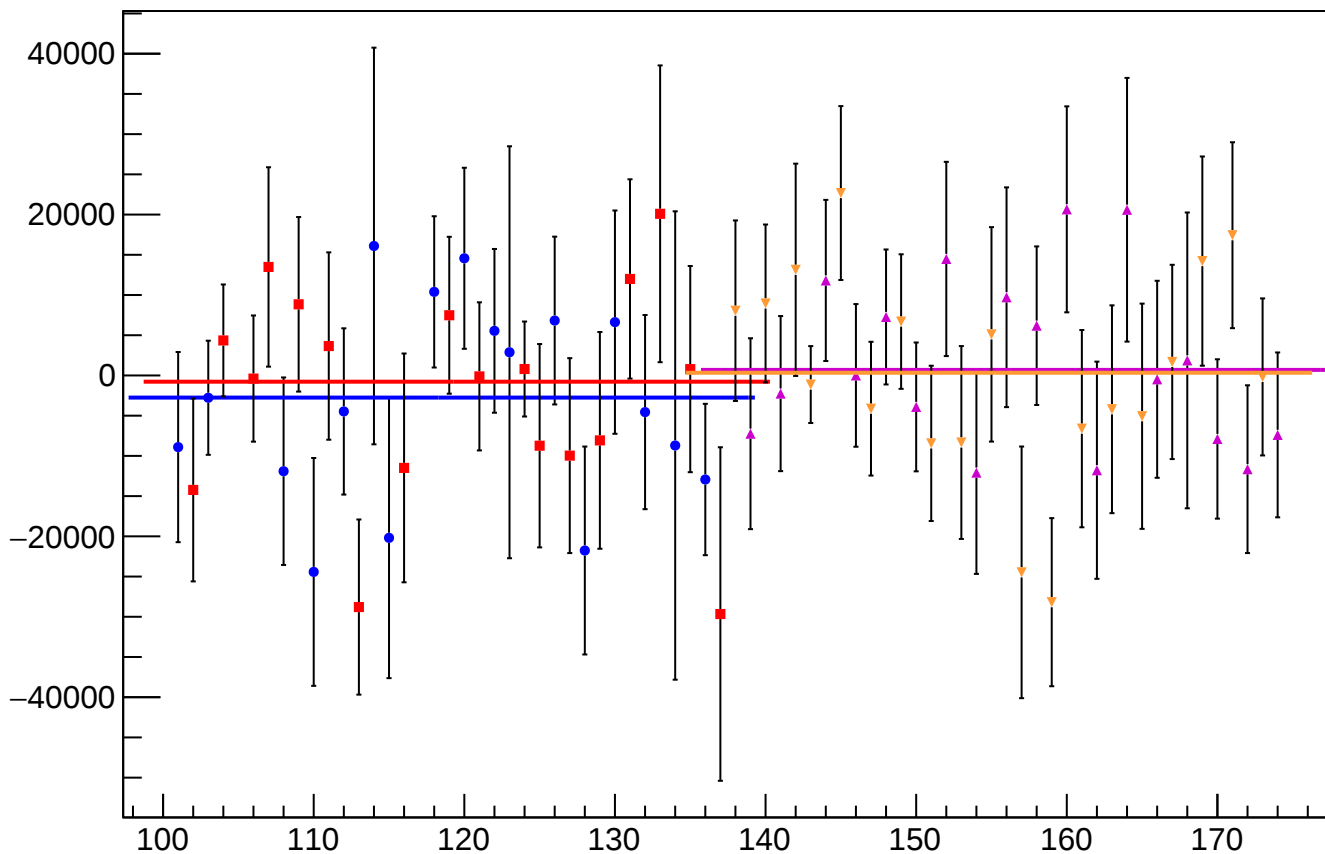
Right: 1726.210 $\pm$ 0.339  $\chi^2$ /NDF: 1124571.0/34

In: 1859.934 $\pm$ 0.291  $\chi^2$ /NDF: 717071.9/34

Out: 1894.421 $\pm$ 0.296  $\chi^2$ /NDF: 1359119.7/36

All: 1876.906 $\pm$ 0.207  $\chi^2$ /NDF: 2083106.0/71

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



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

Left Out: 335.751+/-2292.929  $\chi^2/\text{NDF}$ : 22.8/18

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

Left In: 691.413+/-2556.508  $\chi^2/\text{NDF}$ : 13.4/17

Left: 494.308+/-1706.951  $\chi^2/\text{NDF}$ : 36.2/36

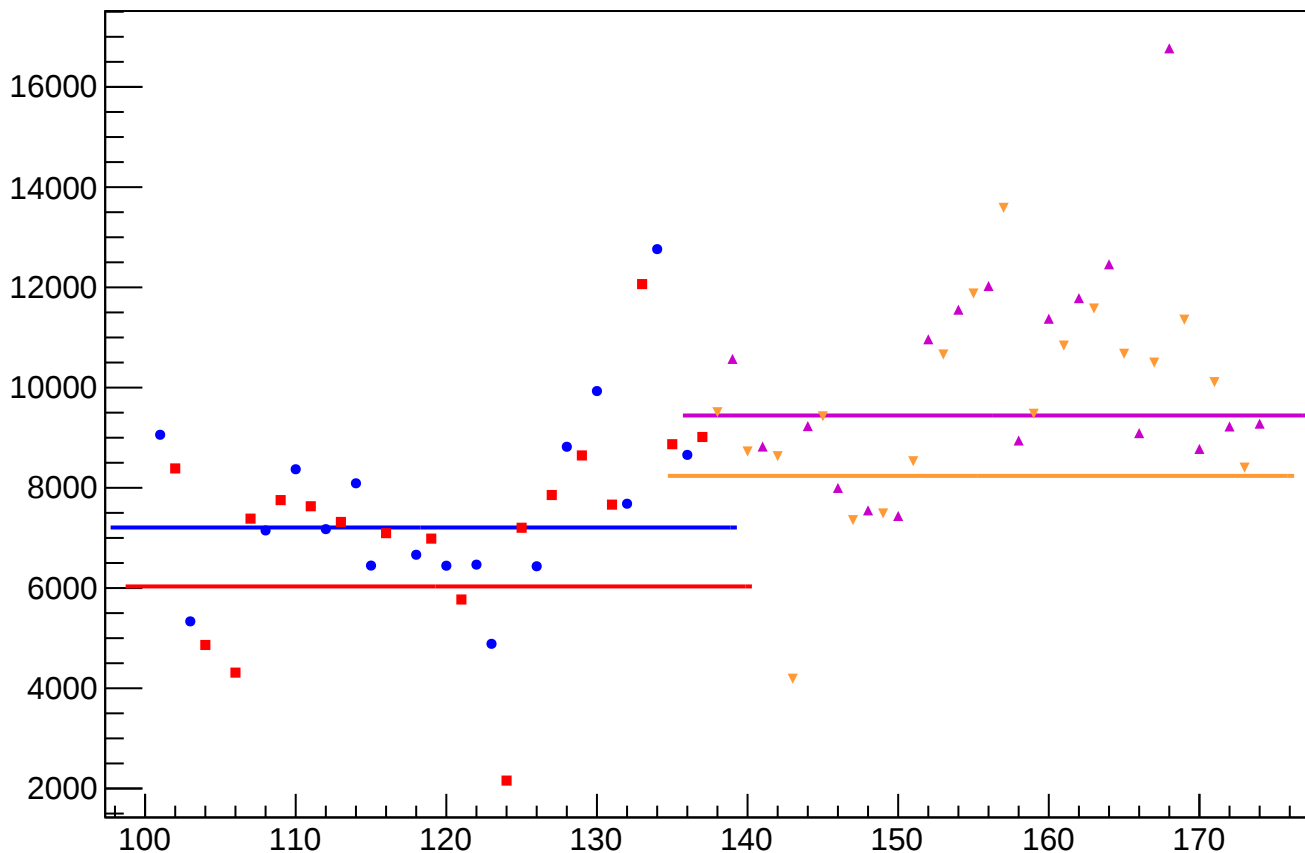
Right: -1613.491+/-1851.753  $\chi^2/\text{NDF}$ : 32.6/34

In: -847.892+/-1900.786  $\chi^2/\text{NDF}$ : 28.7/34

Out: -184.926+/-1671.174  $\chi^2/\text{NDF}$ : 40.7/36

All: -473.968+/-1255.070  $\chi^2/\text{NDF}$ : 69.5/71

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



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

Left Out: 8238.444+/-1.621  $\chi^2/\text{NDF}$ : 2545777.7/18

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

Left In: 9443.438+/-1.808  $\chi^2/\text{NDF}$ : 975213.5/17

Left: 8775.640+/-1.207  $\chi^2/\text{NDF}$ : 3767235.4/36

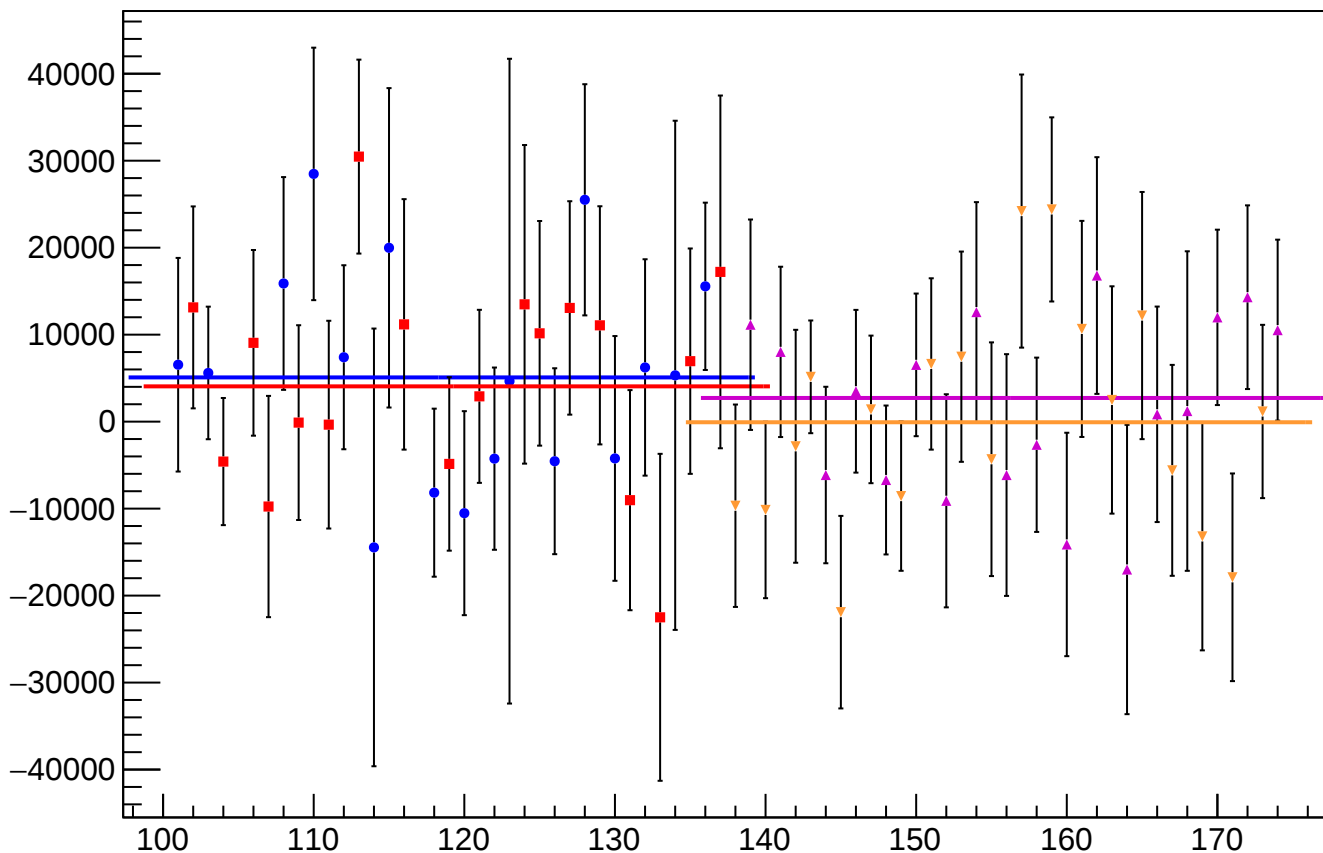
Right: 6531.375+/-1.309  $\chi^2/\text{NDF}$ : 2488415.8/34

In: 8443.917+/-1.344  $\chi^2/\text{NDF}$ : 2152596.4/34

Out: 7204.164+/-1.182  $\chi^2/\text{NDF}$ : 5211384.8/36

All: 7744.675+/-0.887  $\chi^2/\text{NDF}$ : 7843854.5/71

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



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

Left Out: -70.374 $\pm$ 2463.299  $\chi^2/\text{NDF}$ : 20.9/18

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

Left In: 2721.781 $\pm$ 2602.903  $\chi^2/\text{NDF}$ : 12.0/17

Left: 1248.821 $\pm$ 1789.134  $\chi^2/\text{NDF}$ : 33.6/36

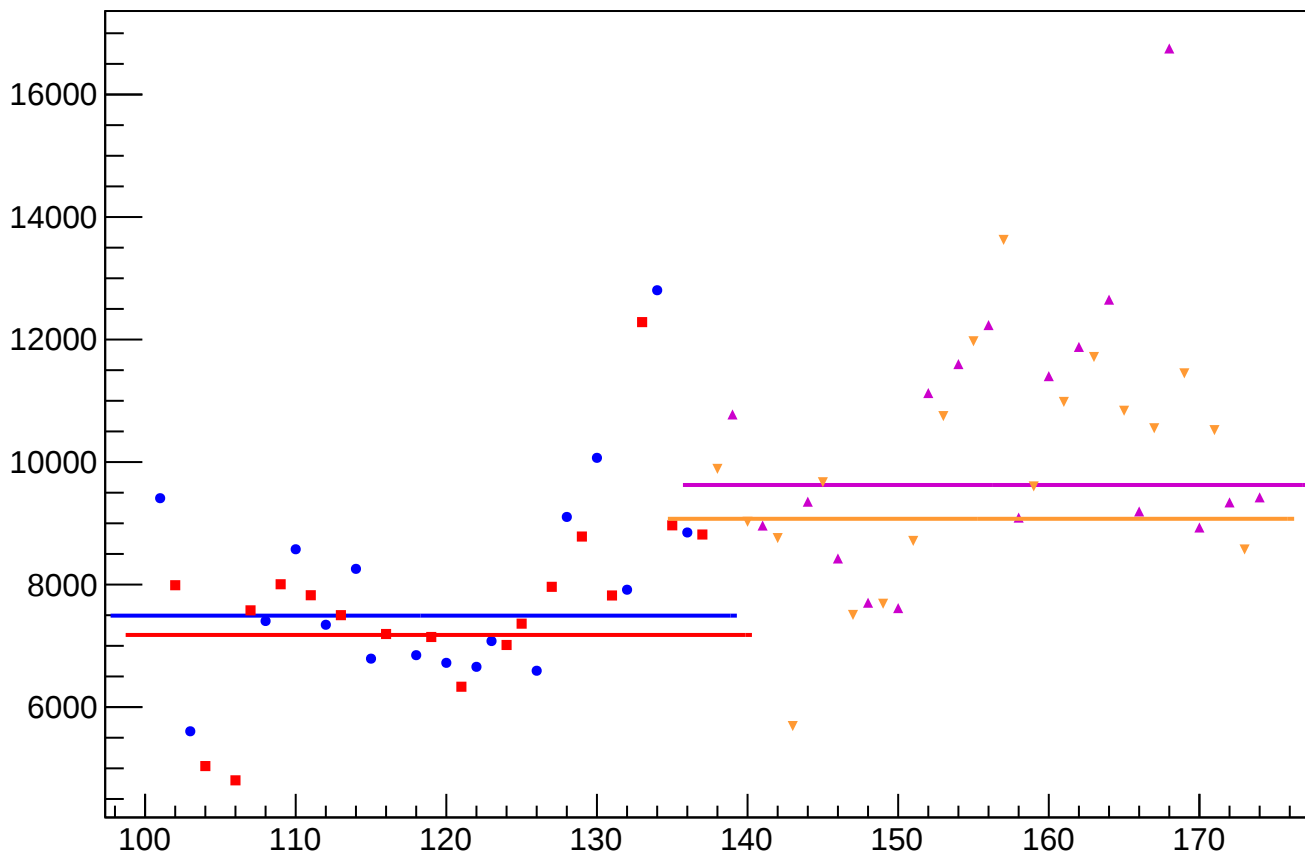
Right: 4542.385 $\pm$ 2032.595  $\chi^2/\text{NDF}$ : 29.2/34

In: 3754.019 $\pm$ 1953.285  $\chi^2/\text{NDF}$ : 26.4/34

Out: 1729.684 $\pm$ 1849.483  $\chi^2/\text{NDF}$ : 37.3/36

All: 2686.636 $\pm$ 1342.979  $\chi^2/\text{NDF}$ : 64.3/71

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



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

Left Out: 9073.849 $\pm$ 1.742  $\chi^2$ /NDF:1279688.7/18

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

Left In: 9625.852 $\pm$ 1.841  $\chi^2$ /NDF:911980.8/17

Left: 9334.651 $\pm$ 1.265  $\chi^2$ /NDF: 2239120.8/36

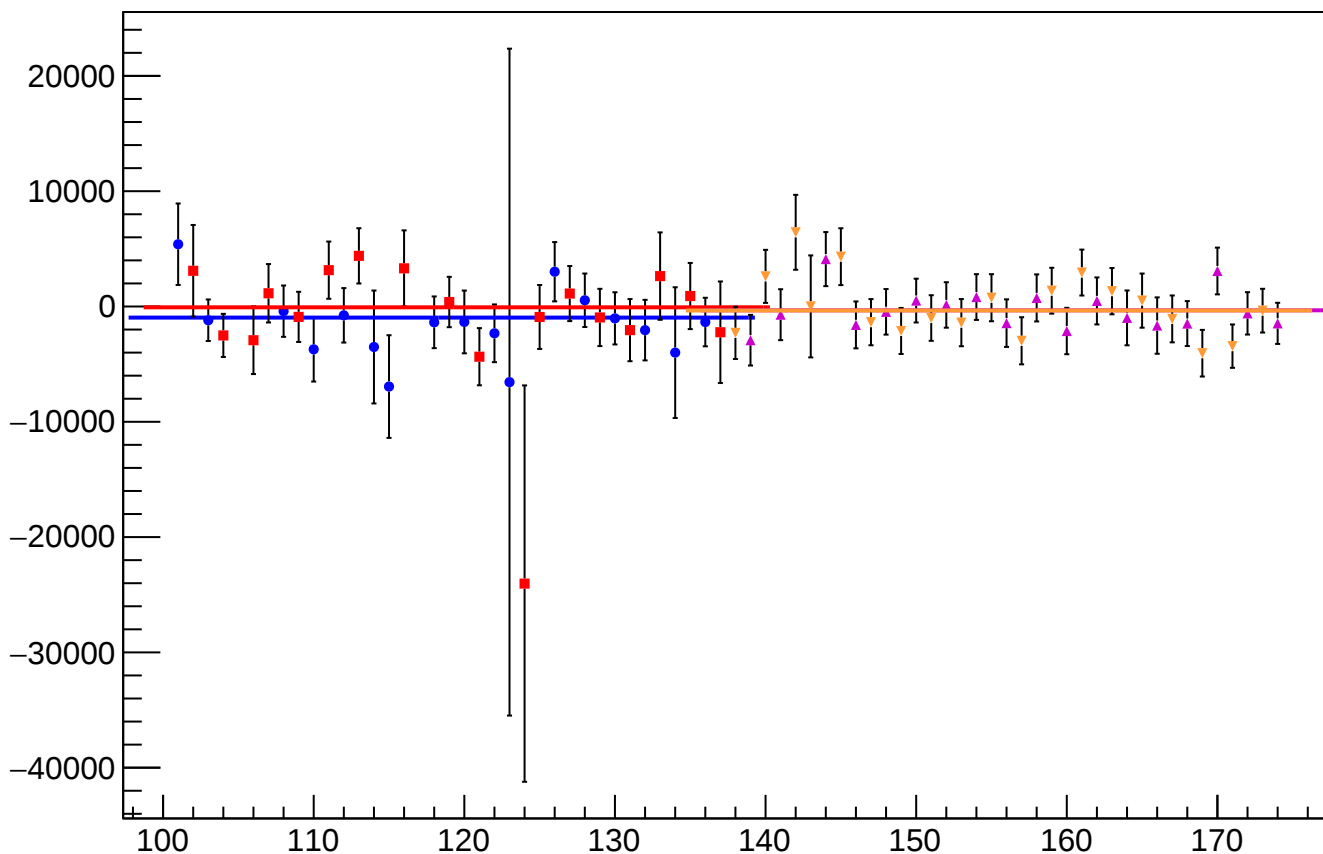
Right: 7326.859 $\pm$ 1.437  $\chi^2$ /NDF: 1004970.1/34

In: 8694.028 $\pm$ 1.381  $\chi^2$ /NDF:1935777.7/34

Out: 8246.533 $\pm$ 1.308  $\chi^2$ /NDF:2352619.2/36

All: 8458.064 $\pm$ 0.950  $\chi^2$ /NDF: 4343749.9/71

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



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

Left Out: -345.961+/-490.807  $\chi^2/\text{NDF}$ :24.2/18

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

Left In: -330.375+/-482.008  $\chi^2/\text{NDF}$ :11.5/17

Left: -338.027+/-343.900  $\chi^2/\text{NDF}$ : 35.7/36

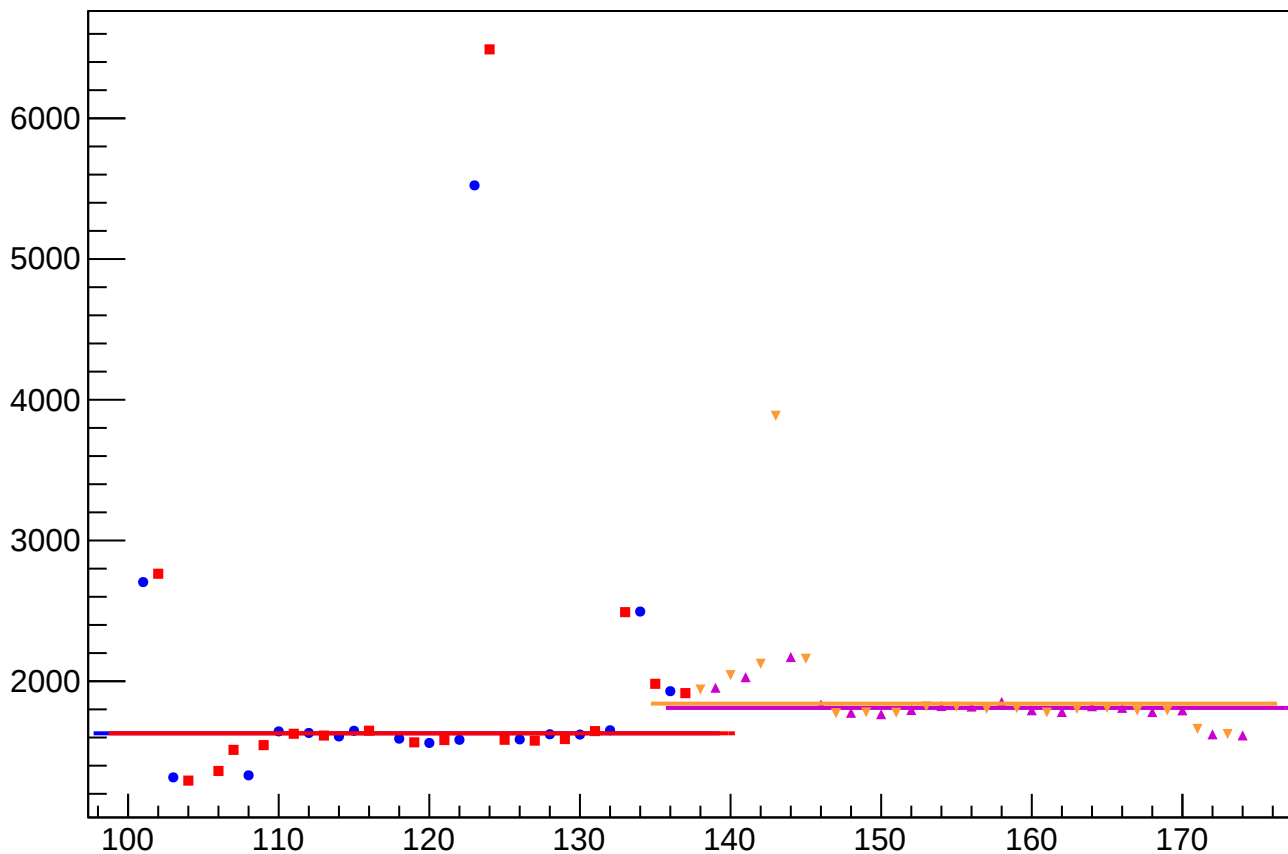
Right: -510.933+/-451.616  $\chi^2/\text{NDF}$ : 27.8/34

In: -557.797+/-385.681  $\chi^2/\text{NDF}$ :22.2/34

Out: -243.133+/-388.200  $\chi^2/\text{NDF}$ :41.0/36

All: -401.489+/-273.604  $\chi^2/\text{NDF}$ : 63.5/71

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



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

Left Out: 1840.890+/-0.347  $\chi^2/\text{NDF}$ : 553283.6/18

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

Left In: 1810.289+/-0.341  $\chi^2/\text{NDF}$ : 124811.1/17

Left: 1825.313+/-0.243  $\chi^2/\text{NDF}$ : 682052.6/36

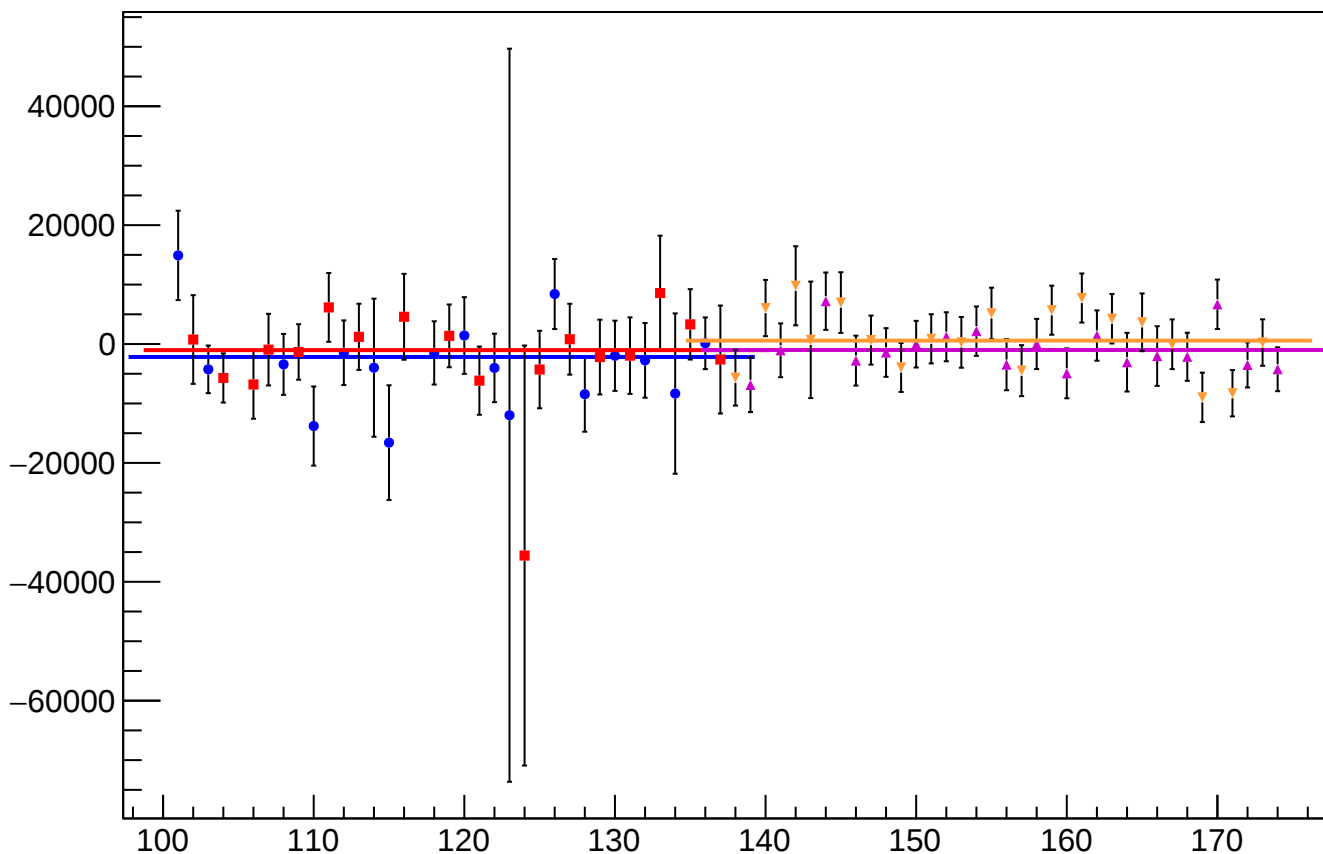
Right: 1629.948+/-0.319  $\chi^2/\text{NDF}$ : 965609.1/34

In: 1745.413+/-0.273  $\chi^2/\text{NDF}$ : 633675.2/34

Out: 1761.908+/-0.274  $\chi^2/\text{NDF}$ : 1249070.0/36

All: 1753.607+/-0.193  $\chi^2/\text{NDF}$ : 1884562.5/71

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



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

Left Out: 574.041+/-1018.262  $\chi^2/\text{NDF}$ : 26.5/18

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

Left In: -1006.309+/-998.697  $\chi^2/\text{NDF}$ : 12.2/17

Left: -231.462+/-713.002  $\chi^2/\text{NDF}$ : 39.9/36

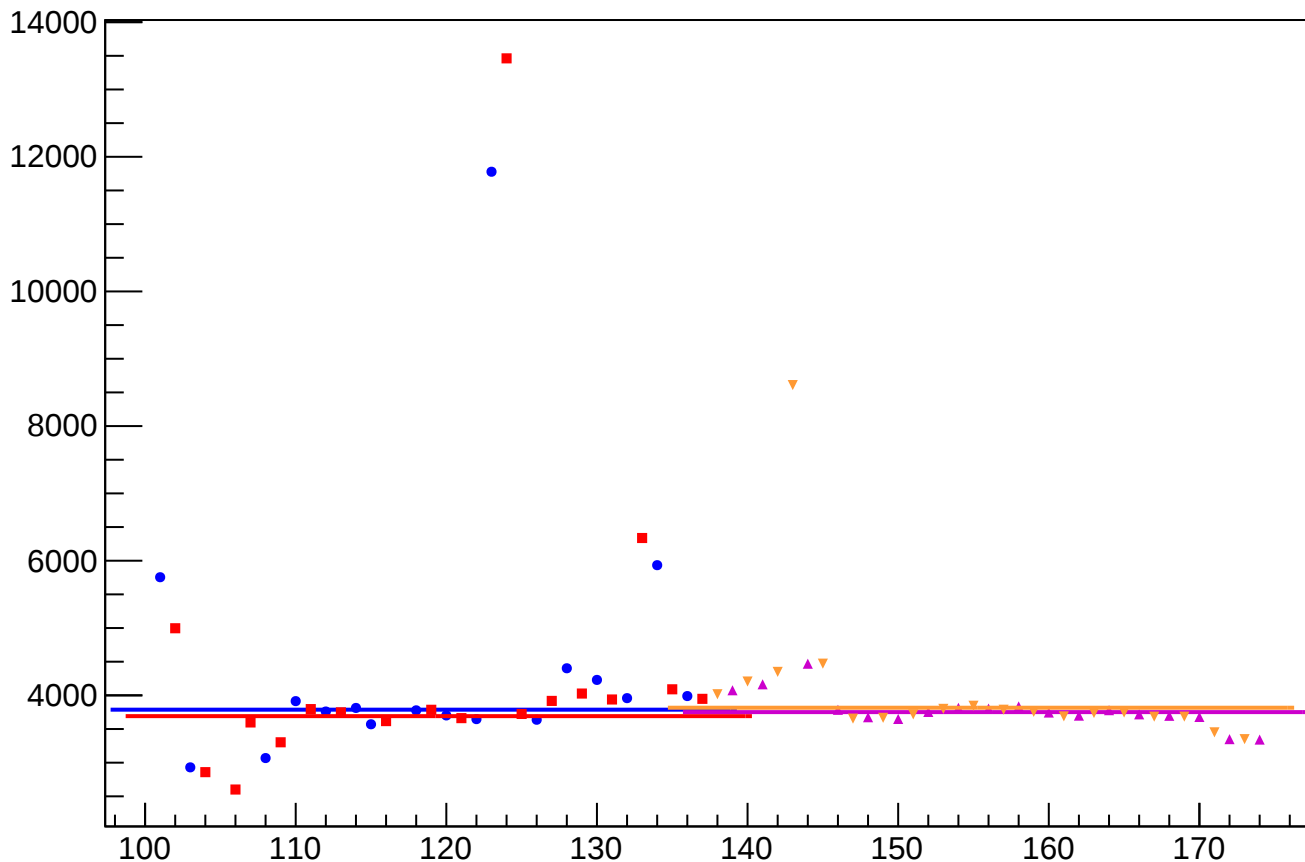
Right: -1583.224+/-1037.341  $\chi^2/\text{NDF}$ : 24.9/34

In: -1368.891+/-830.106  $\chi^2/\text{NDF}$ : 28.6/34

Out: 41.494+/-831.847  $\chi^2/\text{NDF}$ : 35.9/36

All: -665.176+/-587.588  $\chi^2/\text{NDF}$ : 65.9/71

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



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

Left Out: 3816.289 $\pm$ 0.720  $\chi^2/\text{NDF}$ : 602256.6/18

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

Left In: 3751.076 $\pm$ 0.706  $\chi^2/\text{NDF}$ : 123071.6/17

Left: 3783.050 $\pm$ 0.504  $\chi^2/\text{NDF}$ : 729509.3/36

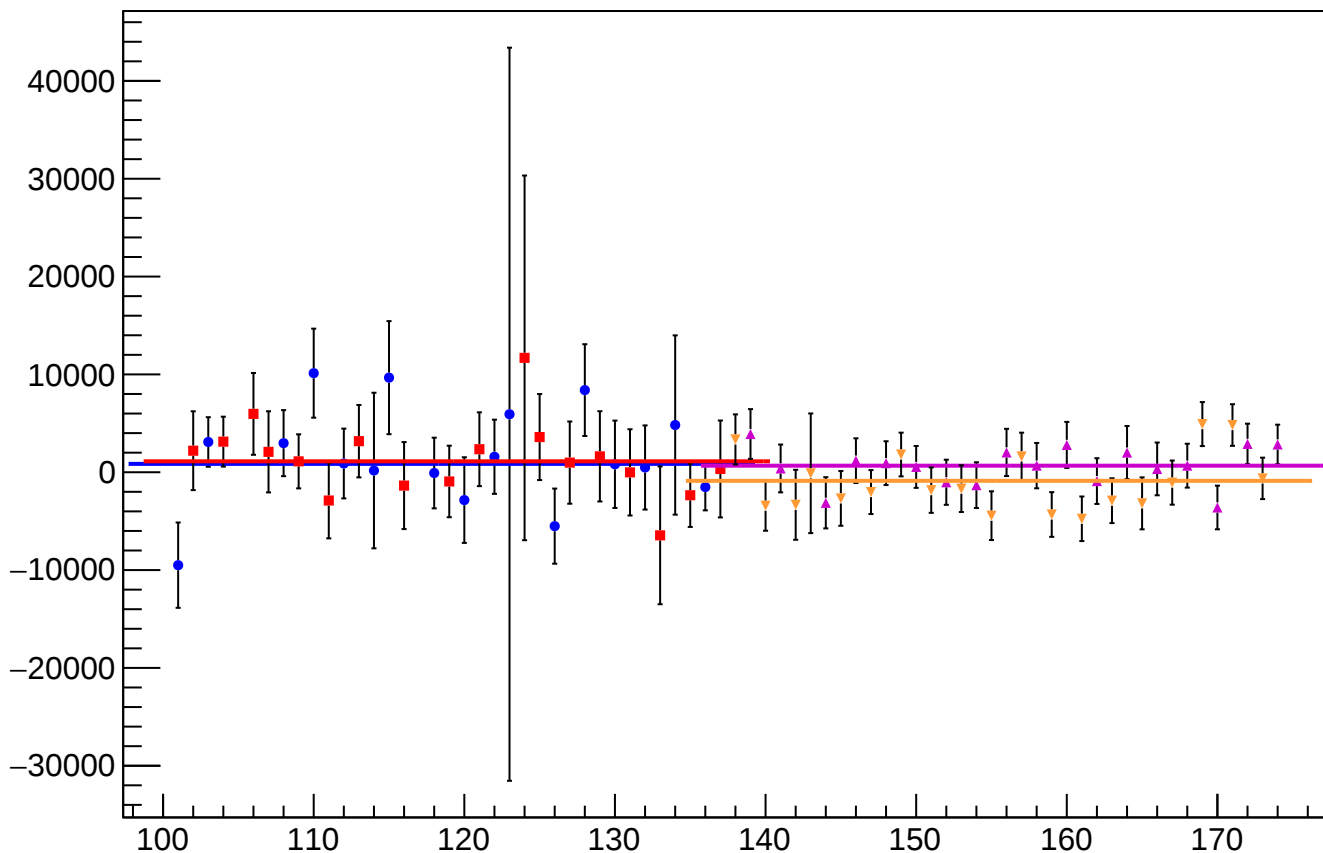
Right: 3737.614 $\pm$ 0.734  $\chi^2/\text{NDF}$ : 952090.1/34

In: 3762.274 $\pm$ 0.587  $\chi^2/\text{NDF}$ : 516535.8/34

Out: 3774.695 $\pm$ 0.588  $\chi^2/\text{NDF}$ : 1167446.1/36

All: 3768.472 $\pm$ 0.415  $\chi^2/\text{NDF}$ : 1684205.3/71

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



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

Left Out: -876.443+/-560.460  $\chi^2/\text{NDF}$ :30.3/18

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

Left In: 669.484+/-548.648  $\chi^2/\text{NDF}$ :12.9/17

Left: -87.018+/-392.062  $\chi^2/\text{NDF}$ : 47.0/36

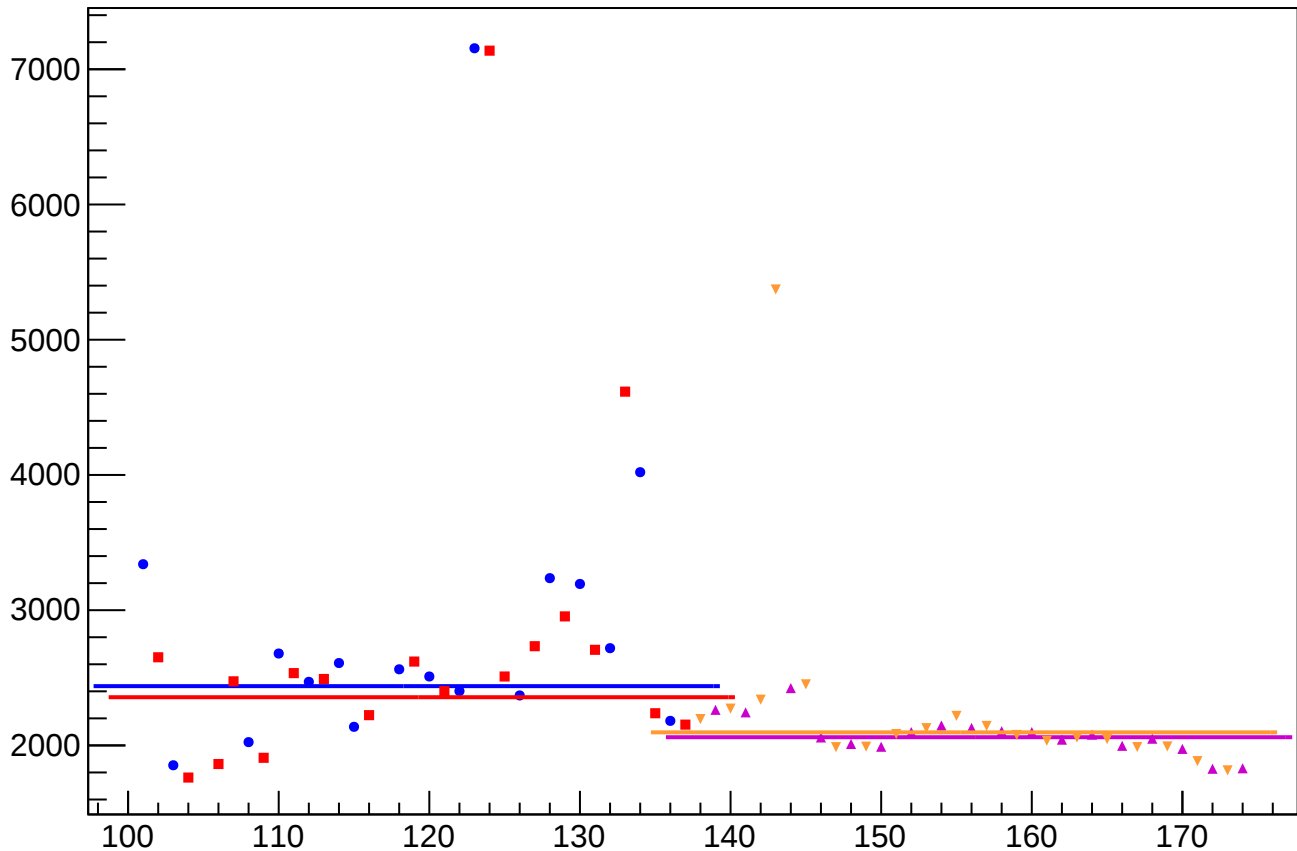
Right: 992.055+/-668.506  $\chi^2/\text{NDF}$ : 28.0/34

In: 715.110+/-476.920  $\chi^2/\text{NDF}$ :33.6/34

Out: -342.842+/-479.642  $\chi^2/\text{NDF}$ :40.9/36

All: 189.145+/-338.192  $\chi^2/\text{NDF}$ : 76.9/71

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



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

Left Out: 2096.636 +/- 0.396  $\chi^2/\text{NDF}$ : 709454.4/18

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

Left In: 2060.589 +/- 0.388  $\chi^2/\text{NDF}$ : 127493.0/17

Left: 2078.229 +/- 0.277  $\chi^2/\text{NDF}$ : 841172.2/36

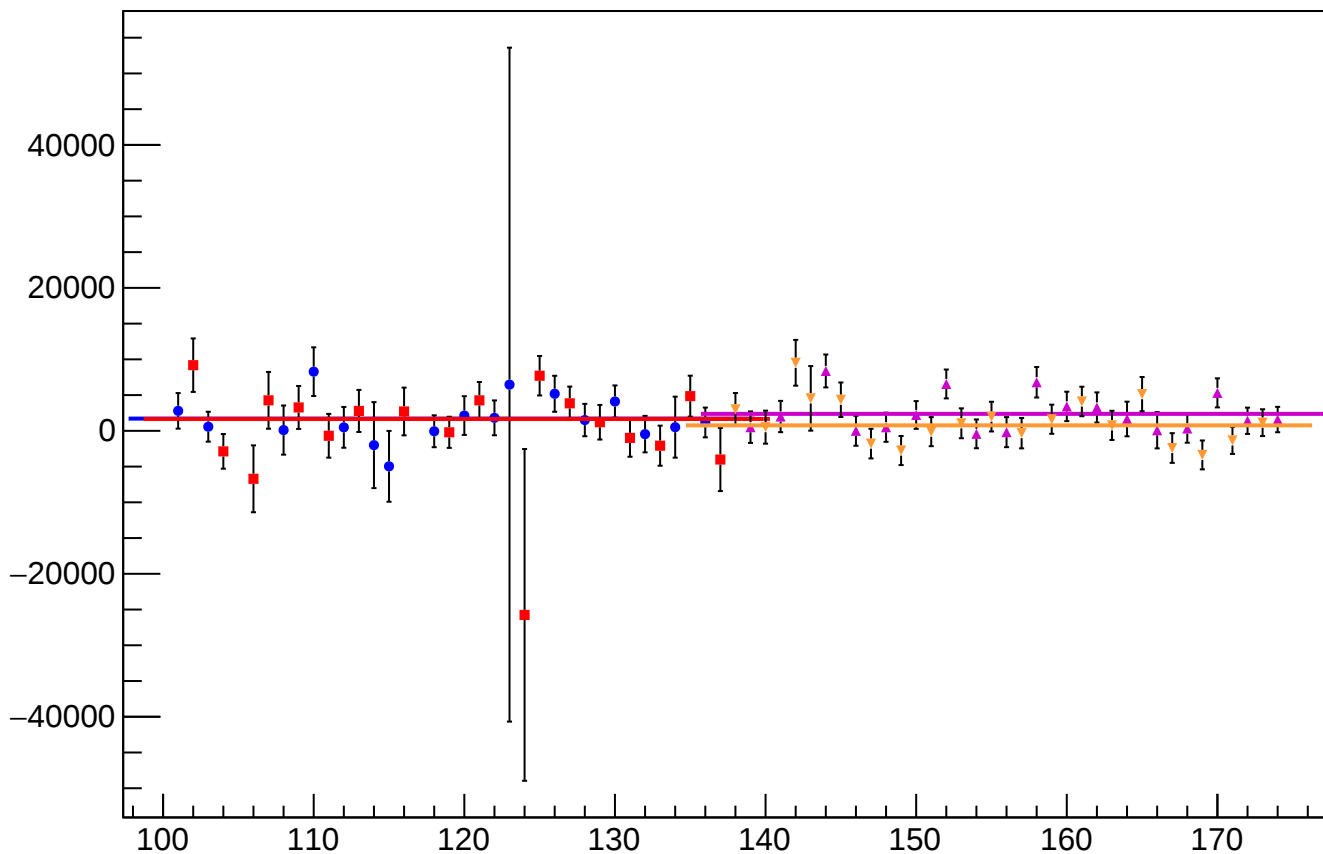
Right: 2395.716 +/- 0.473  $\chi^2/\text{NDF}$ : 1113343.5/34

In: 2152.889 +/- 0.337  $\chi^2/\text{NDF}$ : 835834.6/34

Out: 2166.152 +/- 0.339  $\chi^2/\text{NDF}$ : 1453563.8/36

All: 2159.482 +/- 0.239  $\chi^2/\text{NDF}$ : 2290167.4/71

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



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

Left Out: 769.508+/-498.319  $\chi^2/\text{NDF}$ :30.6/18

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

Left In: 2374.743+/-489.750  $\chi^2/\text{NDF}$ :26.6/17

Left: 1586.048+/-349.296  $\chi^2/\text{NDF}$ : 62.5/36

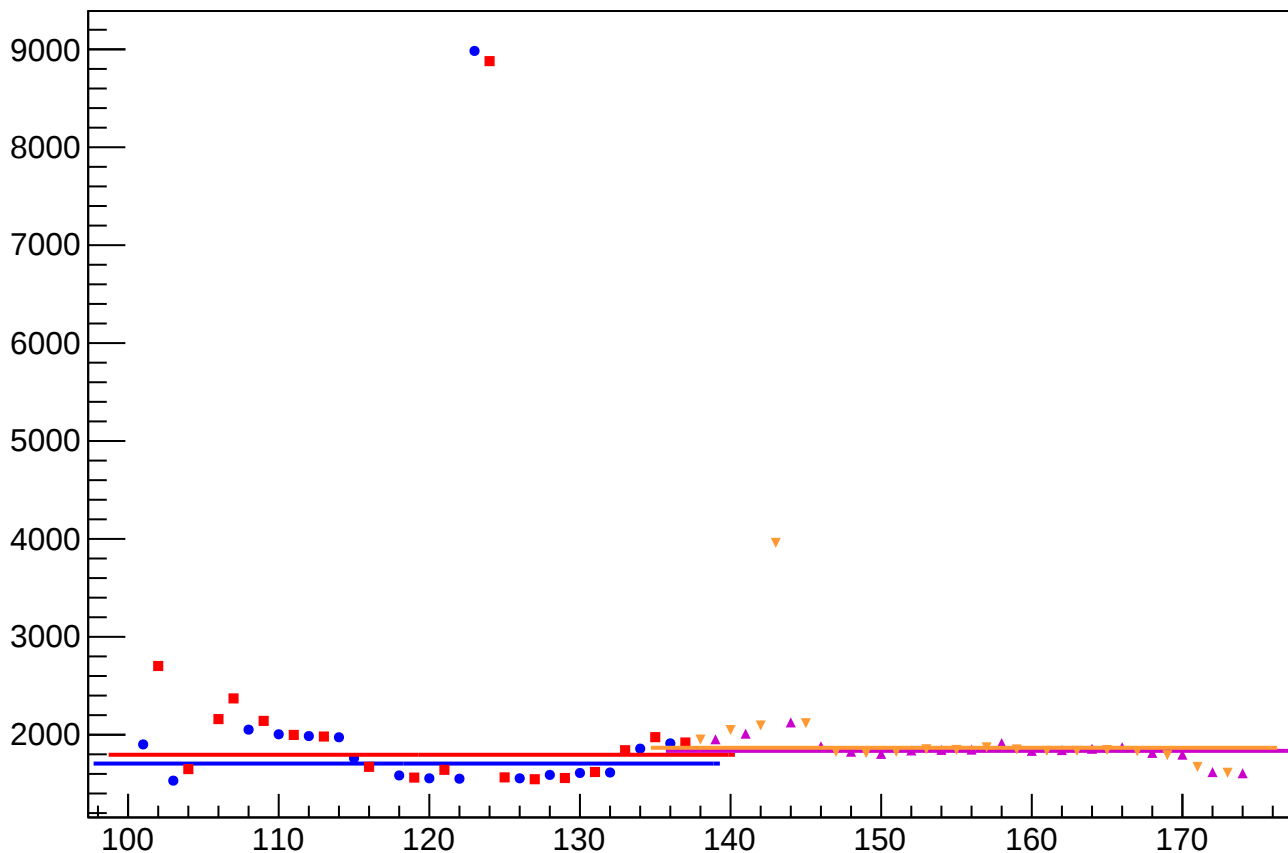
Right: 1689.956+/-481.523  $\chi^2/\text{NDF}$ : 38.2/34

In: 2142.861+/-394.794  $\chi^2/\text{NDF}$ :38.7/34

Out: 1073.284+/-405.116  $\chi^2/\text{NDF}$ :58.6/36

All: 1621.873+/-282.740  $\chi^2/\text{NDF}$ : 100.8/71

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



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

Left Out: 1866.826+/-0.352  $\chi^2/\text{NDF}$ : 542020.8/18

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

Left In: 1835.578+/-0.346  $\chi^2/\text{NDF}$ : 117659.4/17

Left: 1850.931+/-0.247  $\chi^2/\text{NDF}$ : 663680.5/36

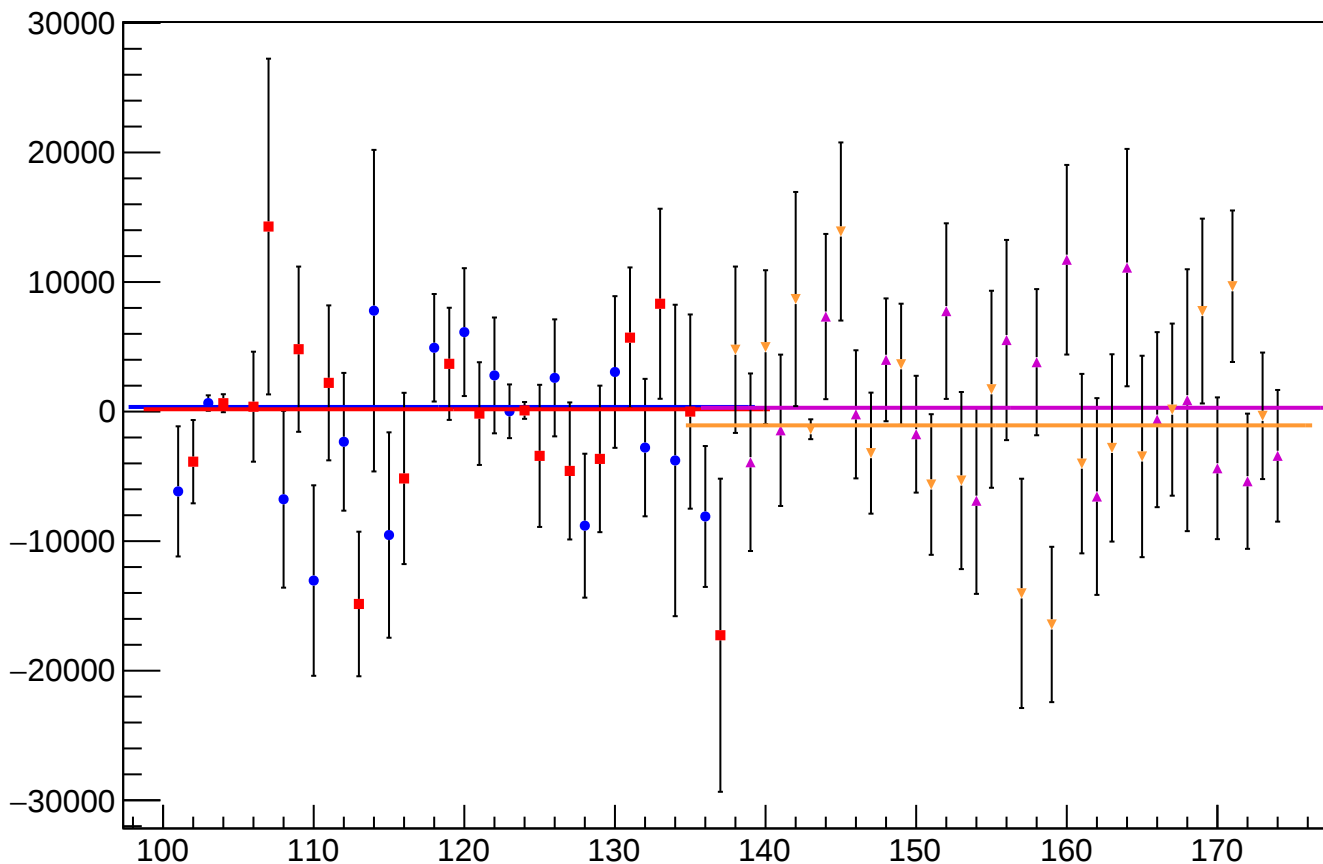
Right: 1748.814+/-0.340  $\chi^2/\text{NDF}$ : 730436.4/34

In: 1790.070+/-0.279  $\chi^2/\text{NDF}$ : 361145.9/34

Out: 1842.595+/-0.286  $\chi^2/\text{NDF}$ : 1074731.0/36

All: 1815.675+/-0.200  $\chi^2/\text{NDF}$ : 1453133.8/71

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



Right In: 357.025 $\pm$ 533.209  $\chi^2$ /NDF: 17.5/16

Left Out: -1063.473 $\pm$ 679.307  $\chi^2$ /NDF:24.6/18

Right Out: 179.185 $\pm$ 446.995  $\chi^2$ /NDF: 18.5/17

Left In: 293.084 $\pm$ 1432.075  $\chi^2$ /NDF:12.7/17

Left: -814.301 $\pm$ 613.757  $\chi^2$ /NDF: 38.0/36

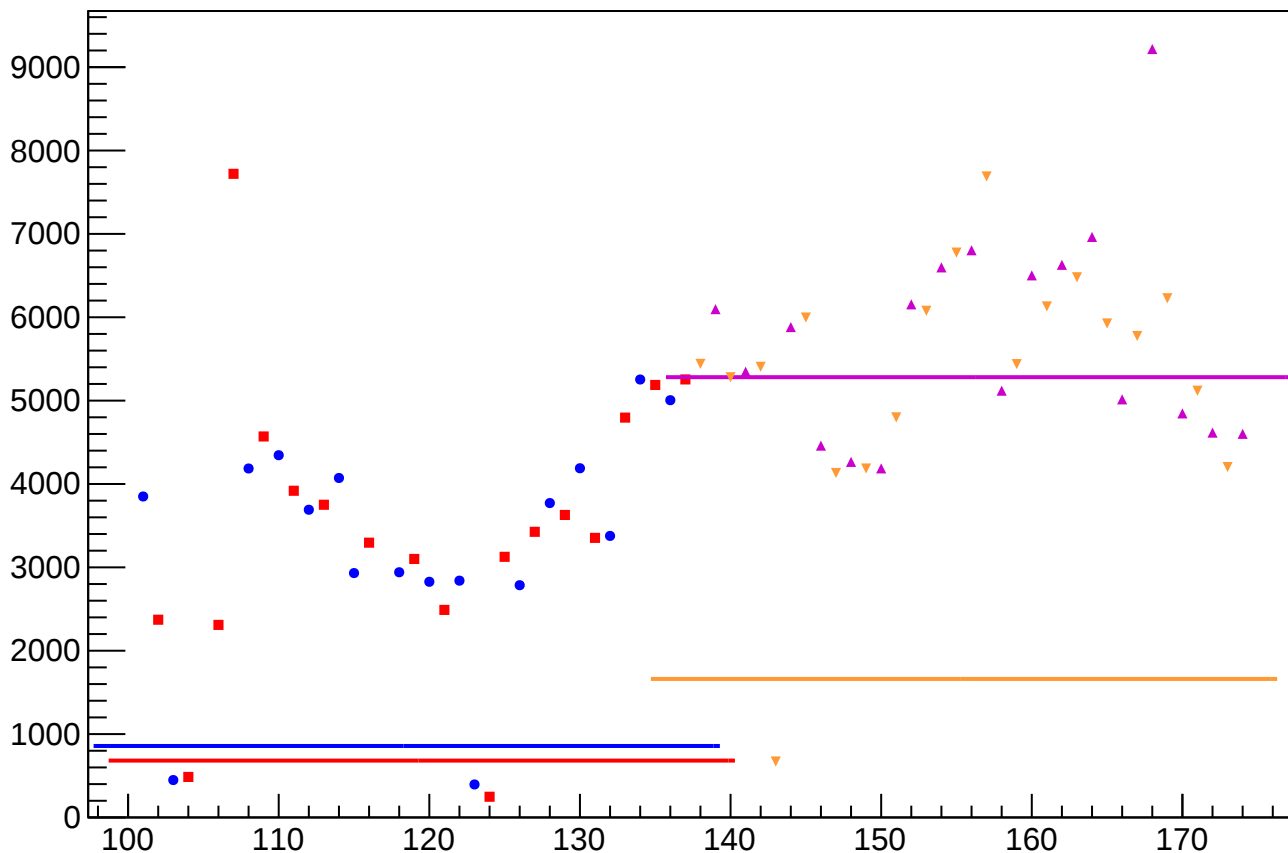
Right: 252.583 $\pm$ 342.551  $\chi^2$ /NDF: 36.1/34

In: 349.240 $\pm$ 499.696  $\chi^2$ /NDF:30.2/34

Out: -196.292 $\pm$ 373.407  $\chi^2$ /NDF:45.5/36

All: -0.817 $\pm$ 299.117  $\chi^2$ /NDF: 76.4/71

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



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

Left Out: 1661.687 $\pm$ 0.480  $\chi^2$ /NDF:16407221.7/18

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

Left In: 5281.278 $\pm$ 1.013  $\chi^2$ /NDF:1064404.3/17

Left: 2326.533 $\pm$ 0.434  $\chi^2$ /NDF: 27901472.5/36

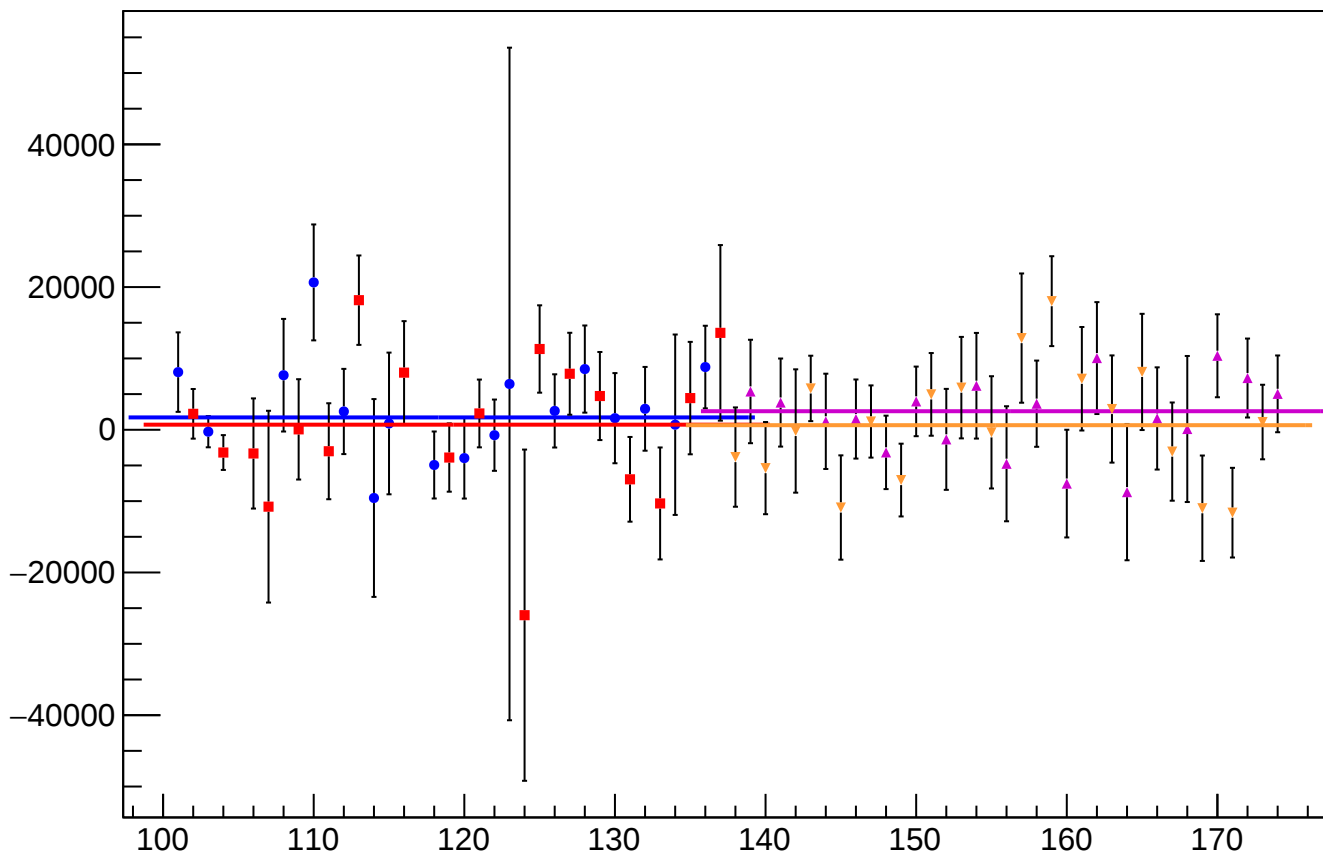
Right: 754.488 $\pm$ 0.242  $\chi^2$ /NDF: 17680867.8/34

In: 1396.084 $\pm$ 0.353  $\chi^2$ /NDF:26000945.8/34

Out: 978.098 $\pm$ 0.264  $\chi^2$ /NDF:28688004.1/36

All: 1127.871 $\pm$ 0.212  $\chi^2$ /NDF: 55586916.1/71

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



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

Left Out: 643.797+/-1477.468  $\chi^2/\text{NDF}$ : 26.2/18

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

Left In: 2601.646+/-1522.057  $\chi^2/\text{NDF}$ : 9.9/17

Left: 1593.624+/-1060.141  $\chi^2/\text{NDF}$ : 37.0/36

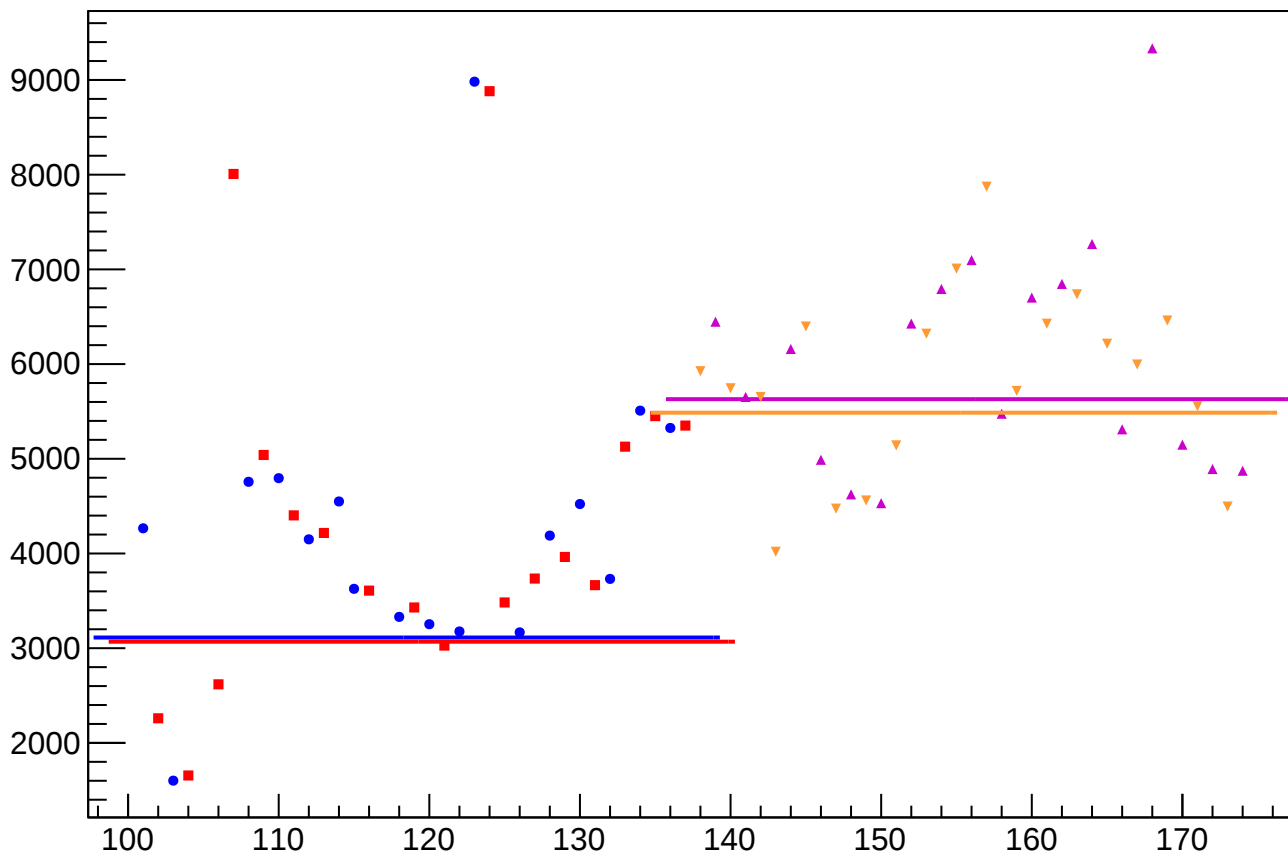
Right: 1218.933+/-917.539  $\chi^2/\text{NDF}$ : 40.3/34

In: 2101.050+/-990.535  $\chi^2/\text{NDF}$ : 25.0/34

Out: 684.466+/-972.029  $\chi^2/\text{NDF}$ : 51.3/36

All: 1379.401+/-693.779  $\chi^2/\text{NDF}$ : 77.4/71

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



Right In: 3112.686 $\pm$ 0.922  $\chi^2$ /NDF: 1884511.8/16

Left Out: 5486.868 $\pm$ 1.045  $\chi^2$ /NDF: 867950.6/18

Right Out: 3068.634 $\pm$ 0.899  $\chi^2$ /NDF: 2001632.3/17

Left In: 5629.596 $\pm$ 1.076  $\chi^2$ /NDF: 887041.3/17

Left: 5556.111 $\pm$ 0.750  $\chi^2$ /NDF: 1764046.7/36

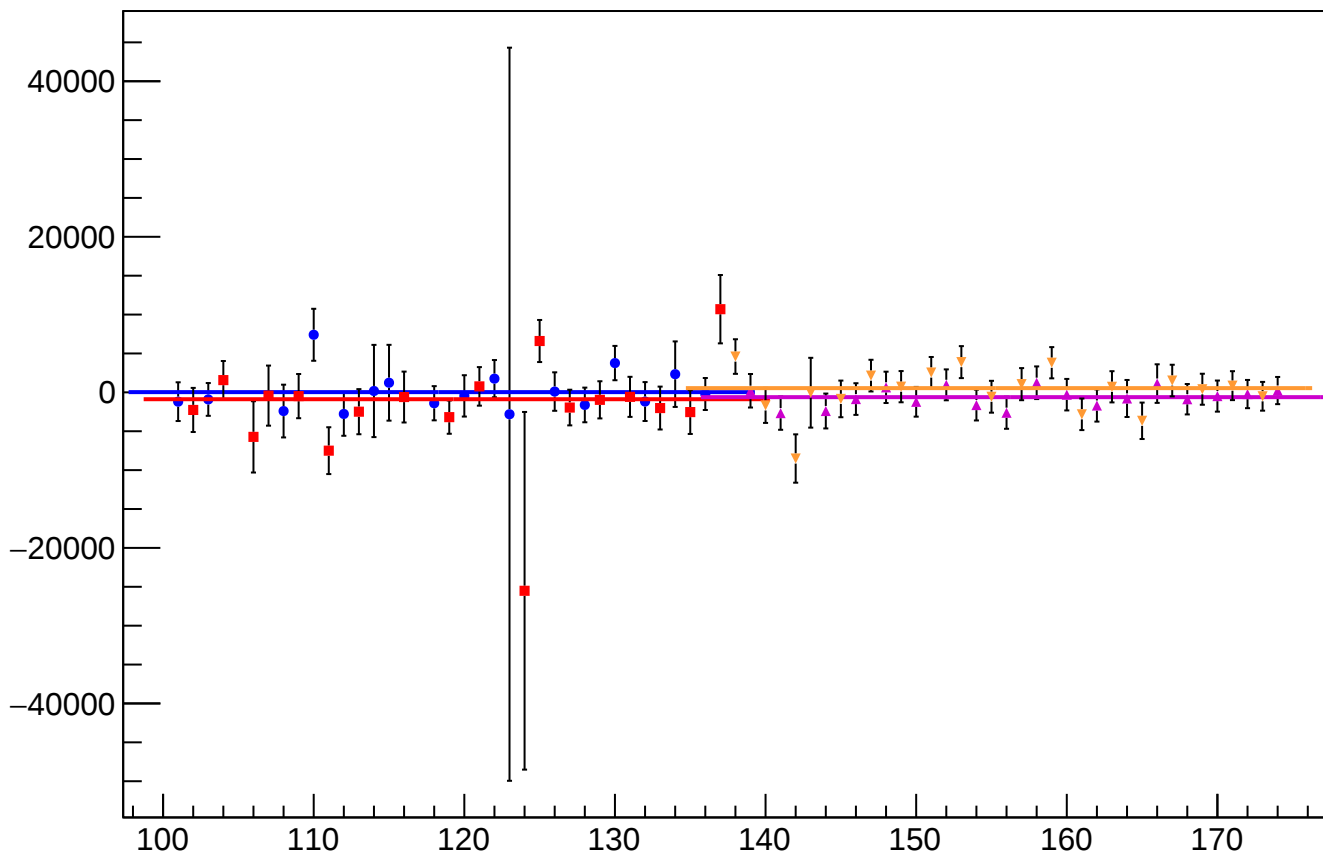
Right: 3090.101 $\pm$ 0.644  $\chi^2$ /NDF: 3887313.2/34

In: 4178.653 $\pm$ 0.700  $\chi^2$ /NDF: 5924281.9/34

Out: 4097.932 $\pm$ 0.682  $\chi^2$ /NDF: 5946912.4/36

All: 4137.193 $\pm$ 0.488  $\chi^2$ /NDF: 11878016.1/70

# 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:  $542.788 \pm 489.113$   $\chi^2/\text{NDF}$ : 27.0/18

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

Left In:  $-617.822 \pm 480.961$   $\chi^2/\text{NDF}$ : 5.9/17

Left:  $-47.269 \pm 342.937$   $\chi^2/\text{NDF}$ : 35.8/36

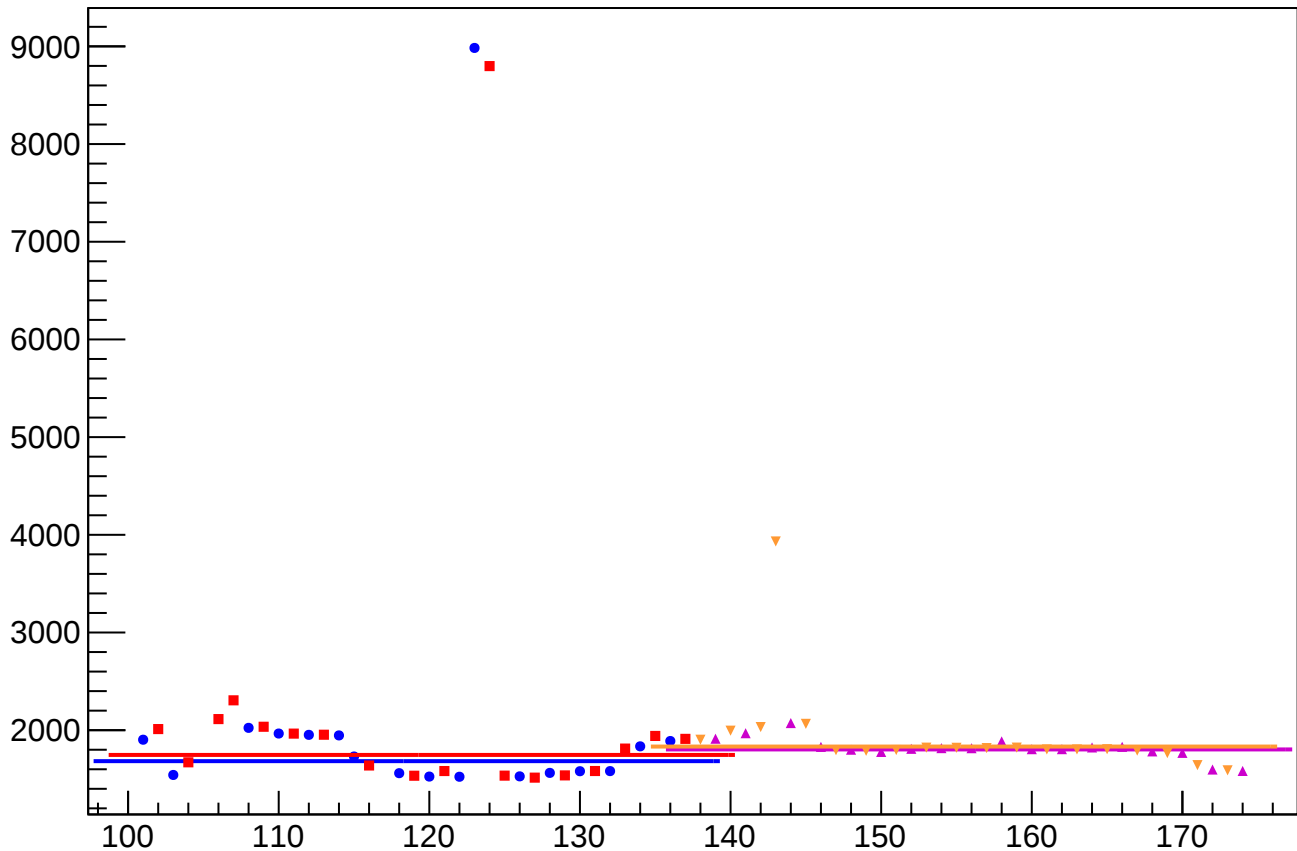
Right:  $-415.699 \pm 471.191$   $\chi^2/\text{NDF}$ : 38.4/34

In:  $-392.725 \pm 388.374$   $\chi^2/\text{NDF}$ : 18.4/34

Out:  $51.654 \pm 395.988$   $\chi^2/\text{NDF}$ : 55.5/36

All:  $-174.848 \pm 277.275$   $\chi^2/\text{NDF}$ : 74.6/71

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



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

Left Out: 1832.501+/-0.346  $\chi^2/\text{NDF}$ : 540209.1/18

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

Left In: 1803.008+/-0.340  $\chi^2/\text{NDF}$ : 108785.9/17

Left: 1817.507+/-0.242  $\chi^2/\text{NDF}$ : 652692.0/36

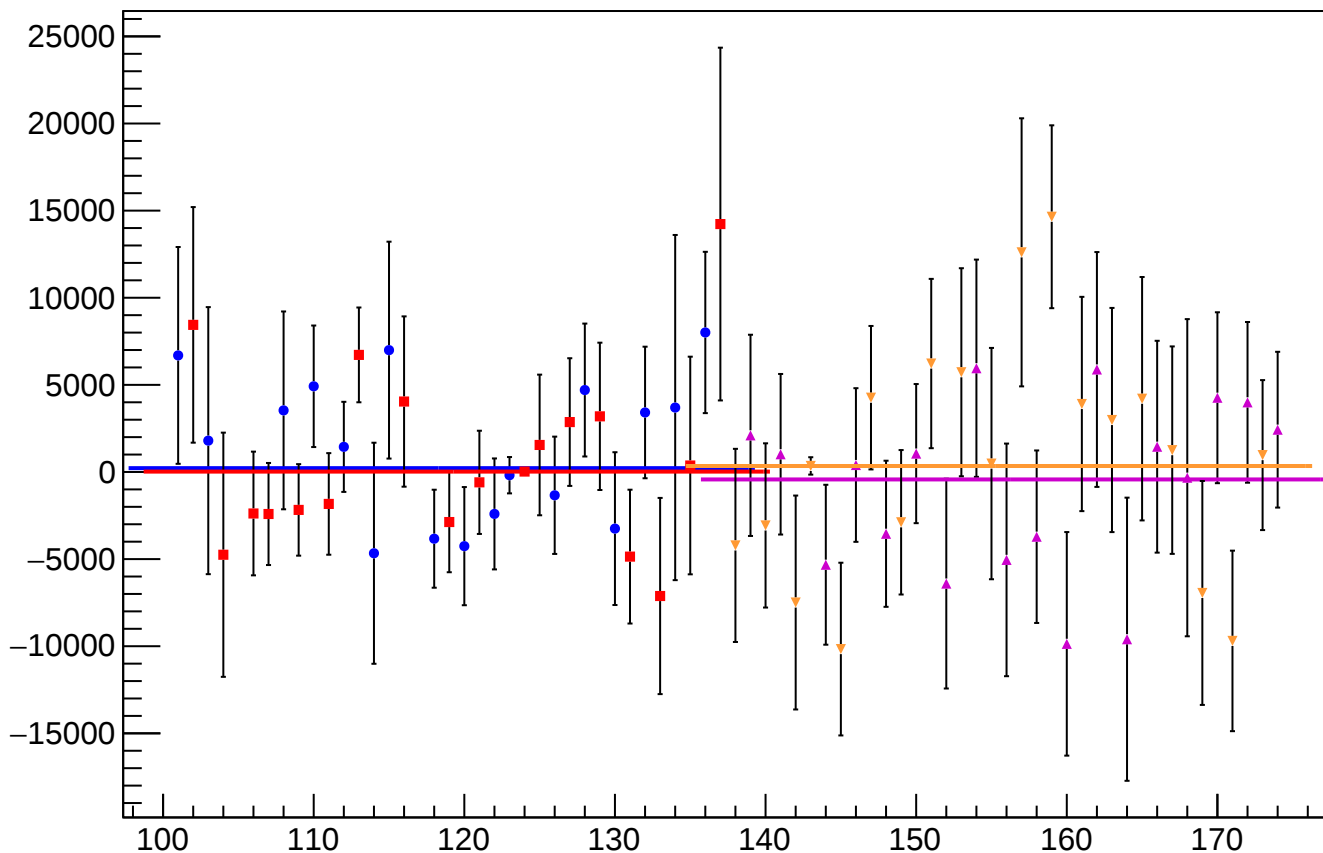
Right: 1714.259+/-0.333  $\chi^2/\text{NDF}$ : 611728.2/34

In: 1761.294+/-0.275  $\chi^2/\text{NDF}$ : 347879.5/34

Out: 1802.889+/-0.280  $\chi^2/\text{NDF}$ : 968148.9/36

All: 1781.704+/-0.196  $\chi^2/\text{NDF}$ : 1327284.5/71

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



Right In: 219.808+/-720.915  $\chi^2/\text{NDF}$ : 15.8/16

Left Out: 343.083+/-464.509  $\chi^2/\text{NDF}$ : 27.0/18

Right Out: 21.945+/-114.135  $\chi^2/\text{NDF}$ : 18.6/17

Left In: -428.016+/-1239.046  $\chi^2/\text{NDF}$ : 11.8/17

Left: 248.064+/-434.949  $\chi^2/\text{NDF}$ : 39.1/36

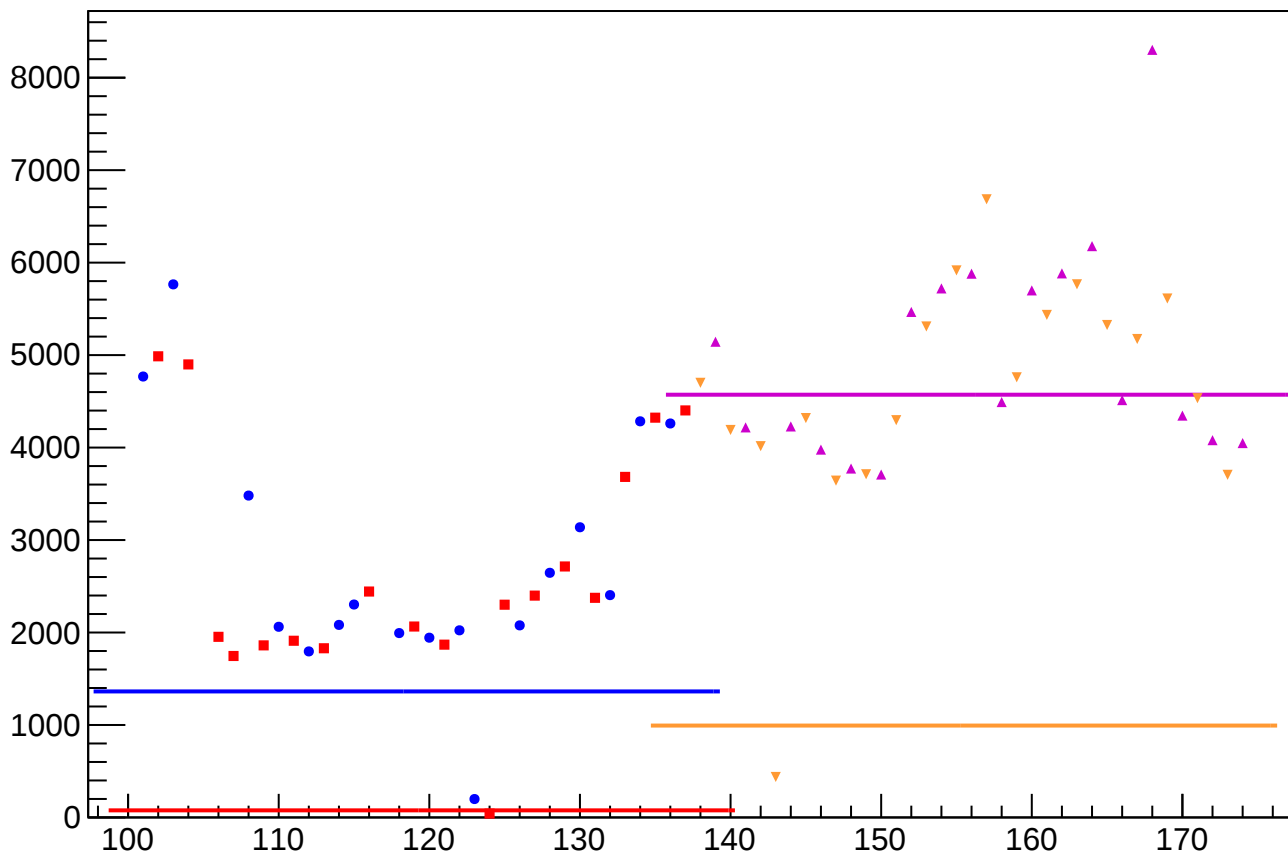
Right: 26.783+/-112.731  $\chi^2/\text{NDF}$ : 34.5/34

In: 55.967+/-623.118  $\chi^2/\text{NDF}$ : 27.8/34

Out: 40.229+/-110.839  $\chi^2/\text{NDF}$ : 46.0/36

All: 40.712+/-109.126  $\chi^2/\text{NDF}$ : 73.8/71

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



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

Left Out: 993.764 $\pm$ 0.328  $\chi^2$ /NDF:19218953.5/18

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

Left In: 4571.597 $\pm$ 0.876  $\chi^2$ /NDF:1040608.9/17

Left: 1434.645 $\pm$ 0.308  $\chi^2$ /NDF: 34880775.0/36

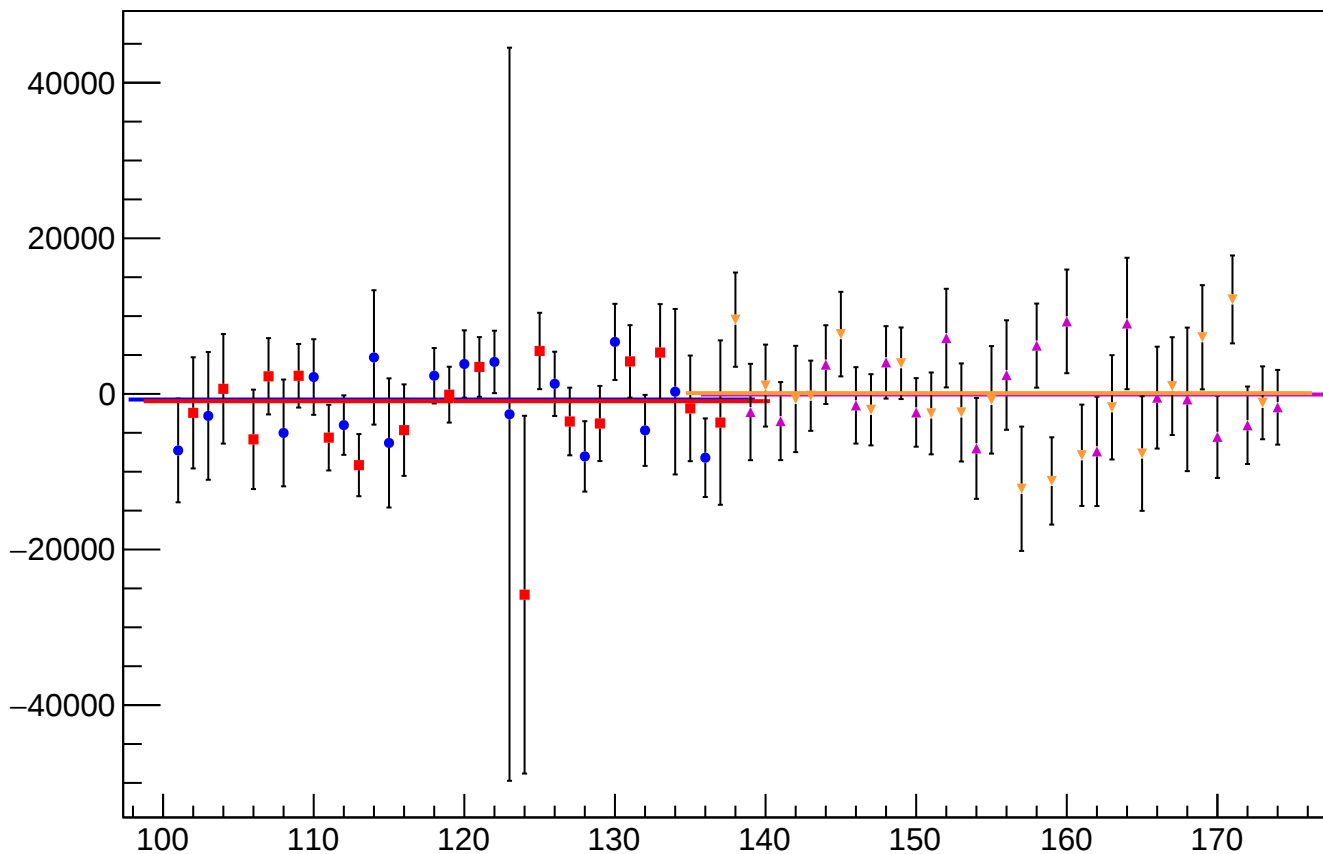
Right: 108.278 $\pm$ 0.080  $\chi^2$ /NDF: 25558892.3/34

In: 2174.369 $\pm$ 0.441  $\chi^2$ /NDF:17297229.8/34

Out: 129.039 $\pm$ 0.078  $\chi^2$ /NDF:39682802.9/36

All: 191.769 $\pm$ 0.077  $\chi^2$ /NDF: 77867575.4/73

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



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

Left Out:  $101.570 \pm 1311.749$   $\chi^2/\text{NDF}: 20.7/18$

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

Left In:  $-76.160 \pm 1338.031$   $\chi^2/\text{NDF}: 12.3/17$

Left:  $14.468 \pm 936.701$   $\chi^2/\text{NDF}: 33.0/36$

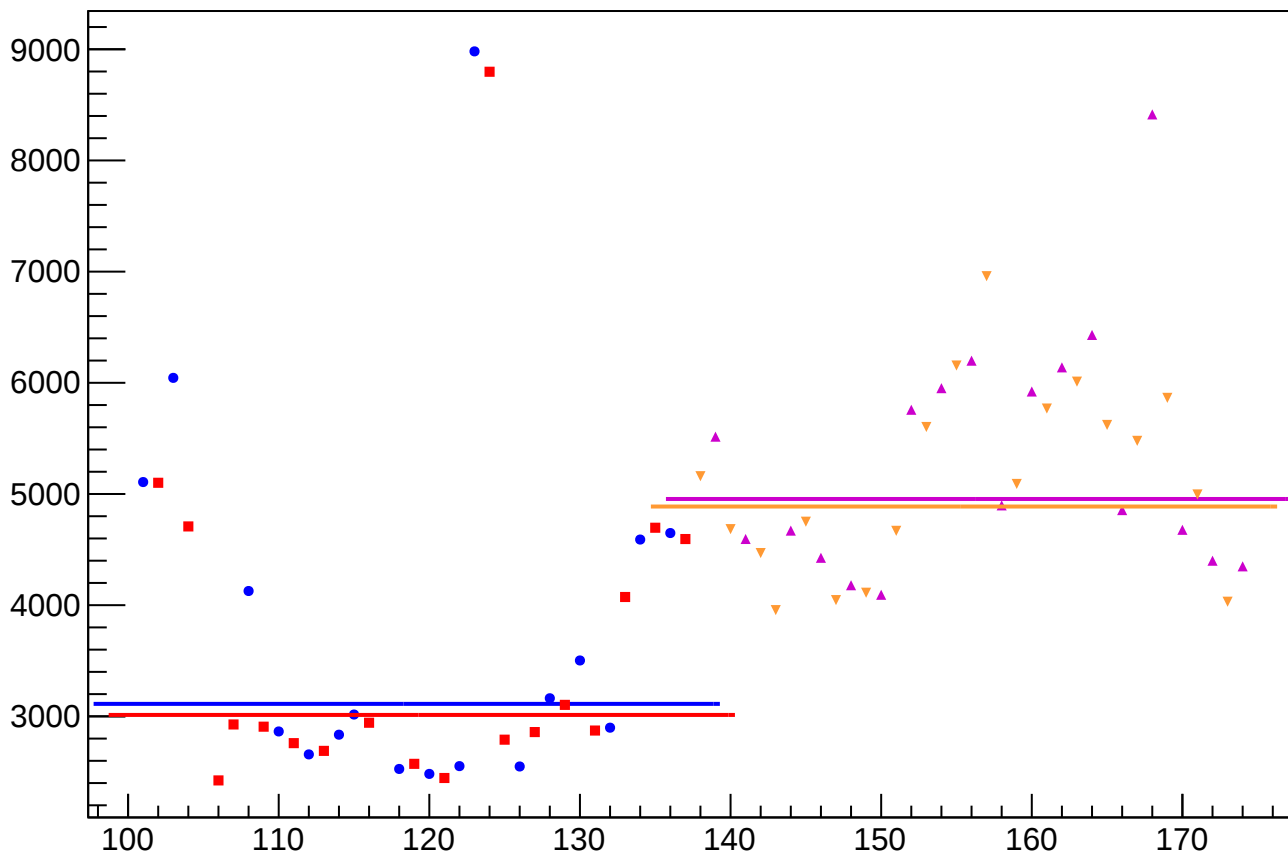
Right:  $-831.583 \pm 864.407$   $\chi^2/\text{NDF}: 29.7/34$

In:  $-420.100 \pm 914.402$   $\chi^2/\text{NDF}: 27.2/34$

Out:  $-463.323 \pm 883.171$   $\chi^2/\text{NDF}: 35.9/36$

All:  $-442.462 \pm 635.250$   $\chi^2/\text{NDF}: 63.1/71$

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



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

Left Out: 4887.218 $\pm$ 0.928  $\chi^2/\text{NDF}$ : 699810.9/18

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

Left In: 4955.115 $\pm$ 0.946  $\chi^2/\text{NDF}$ : 834037.1/17

Left: 4920.493 $\pm$ 0.662  $\chi^2/\text{NDF}$ : 1536474.1/36

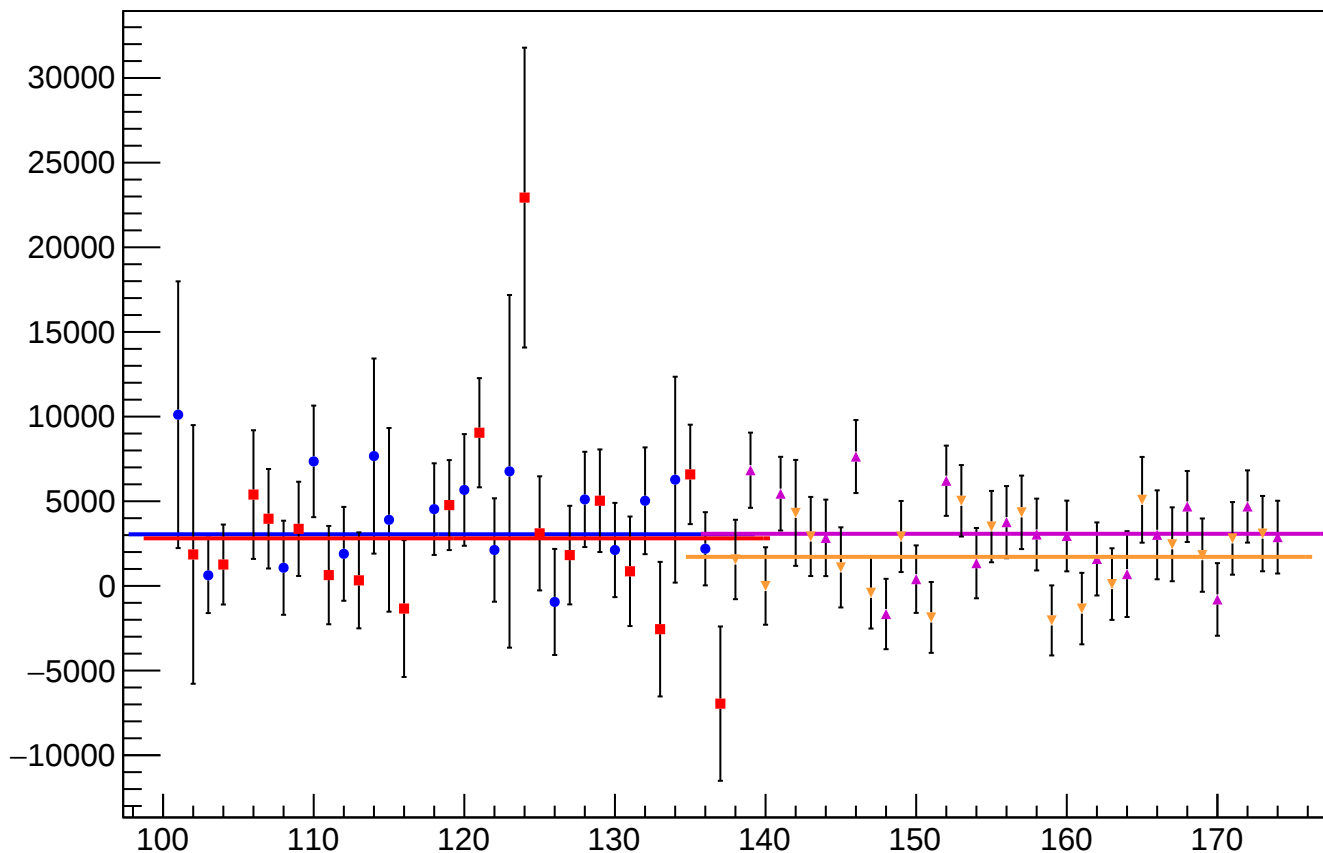
Right: 3059.514 $\pm$ 0.607  $\chi^2/\text{NDF}$ : 1739444.6/34

In: 3972.903 $\pm$ 0.647  $\chi^2/\text{NDF}$ : 3814625.5/34

Out: 3850.764 $\pm$ 0.620  $\chi^2/\text{NDF}$ : 3732226.8/36

All: 3909.290 $\pm$ 0.448  $\chi^2/\text{NDF}$ : 7565437.4/71

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



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

Left Out: 1715.159 $\pm$ 509.104  $\chi^2/\text{NDF}$ : 19.0/18

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

Left In: 3077.957 $\pm$ 510.284  $\chi^2/\text{NDF}$ : 24.4/17

Left: 2394.980 $\pm$ 360.407  $\chi^2/\text{NDF}$ : 47.0/36

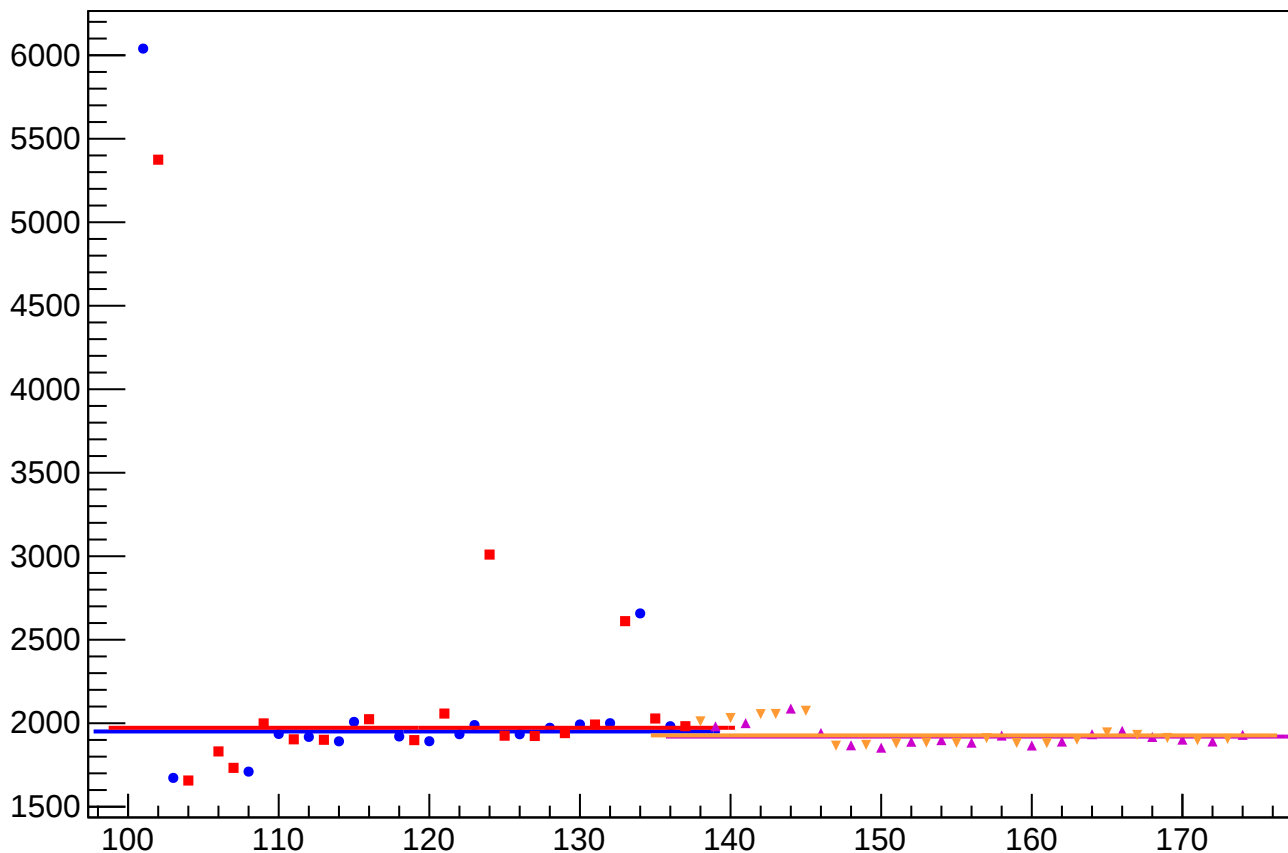
Right: 2928.147 $\pm$ 543.941  $\chi^2/\text{NDF}$ : 31.4/34

In: 3069.182 $\pm$ 425.748  $\chi^2/\text{NDF}$ : 33.7/34

Out: 2050.205 $\pm$ 424.035  $\chi^2/\text{NDF}$ : 42.4/36

All: 2557.640 $\pm$ 300.442  $\chi^2/\text{NDF}$ : 79.0/71

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



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

Left Out: 1927.126+/-0.360  $\chi^2/\text{NDF}$ : 32845.5/18

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

Left In: 1920.084+/-0.361  $\chi^2/\text{NDF}$ : 22901.1/17

Left: 1923.613+/-0.255  $\chi^2/\text{NDF}$ : 55937.5/36

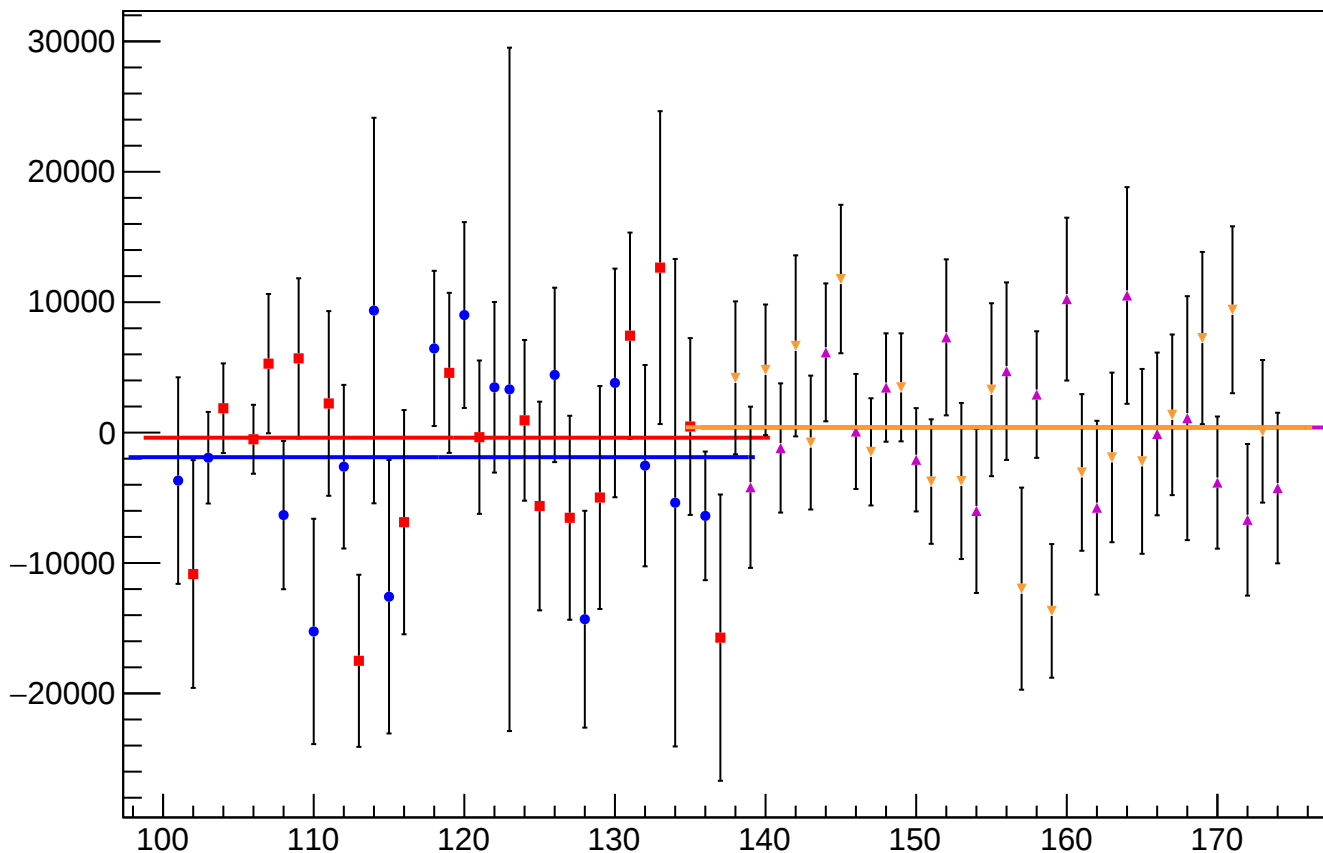
Right: 1961.803+/-0.385  $\chi^2/\text{NDF}$ : 1151656.3/34

In: 1929.385+/-0.301  $\chi^2/\text{NDF}$ : 640253.0/34

Out: 1941.104+/-0.300  $\chi^2/\text{NDF}$ : 573433.8/36

All: 1935.269+/-0.212  $\chi^2/\text{NDF}$ : 1214447.6/71

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



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

Left Out: 412.794 $\pm$ 1287.164  $\chi^2/\text{NDF}$ : 22.0/18

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

Left In: 393.205 $\pm$ 1300.458  $\chi^2/\text{NDF}$ : 13.5/17

Left: 403.100 $\pm$ 914.827  $\chi^2/\text{NDF}$ : 35.5/36

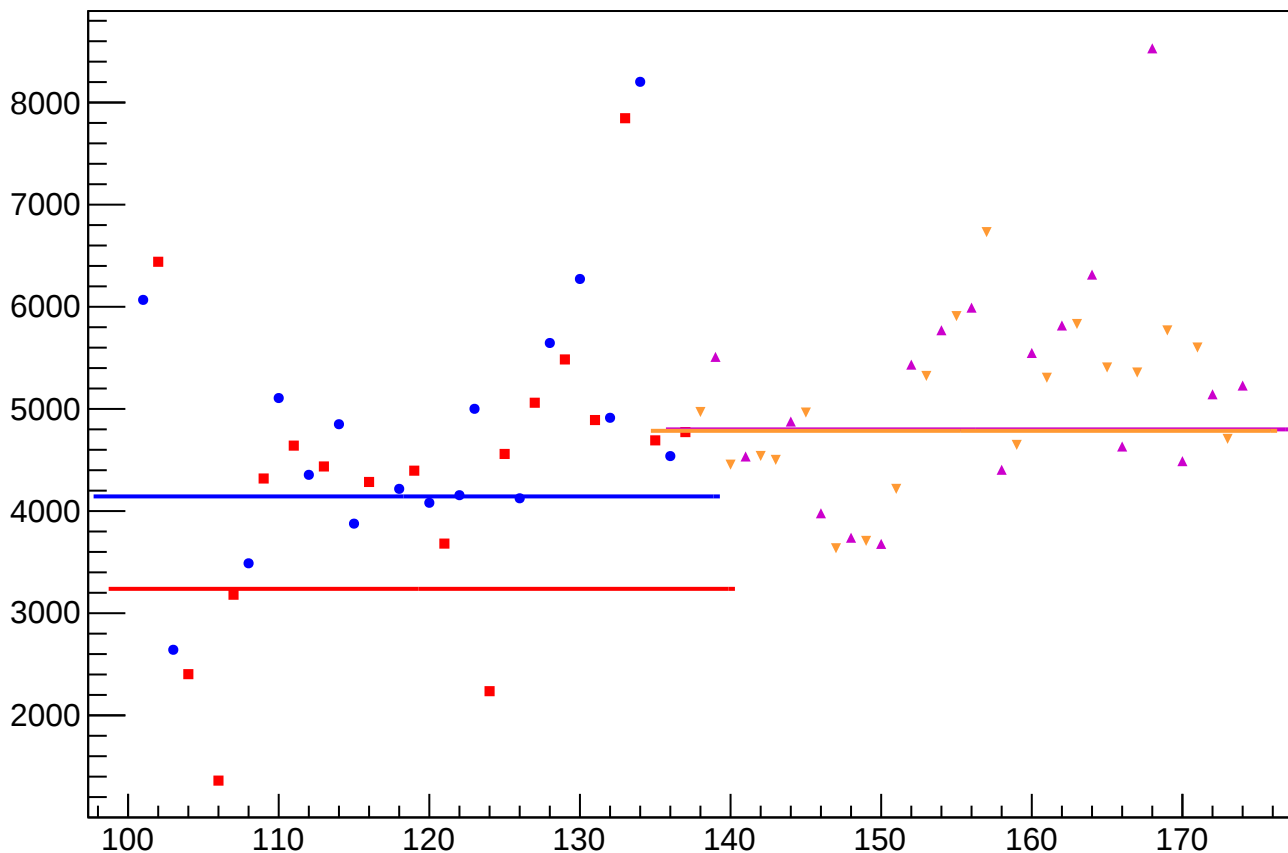
Right: -993.190 $\pm$ 1052.280  $\chi^2/\text{NDF}$ : 32.2/34

In: -474.653 $\pm$ 1023.245  $\chi^2/\text{NDF}$ : 28.8/34

Out: 33.279 $\pm$ 935.398  $\chi^2/\text{NDF}$ : 39.8/36

All: -197.951 $\pm$ 690.398  $\chi^2/\text{NDF}$ : 68.7/71

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



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

Left Out: 4785.696+/-0.910  $\chi^2/\text{NDF}$ : 718860.4/18

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

Left In: 4799.724+/-0.920  $\chi^2/\text{NDF}$ : 1024090.5/17

Left: 4792.638+/-0.647  $\chi^2/\text{NDF}$ : 1743068.4/36

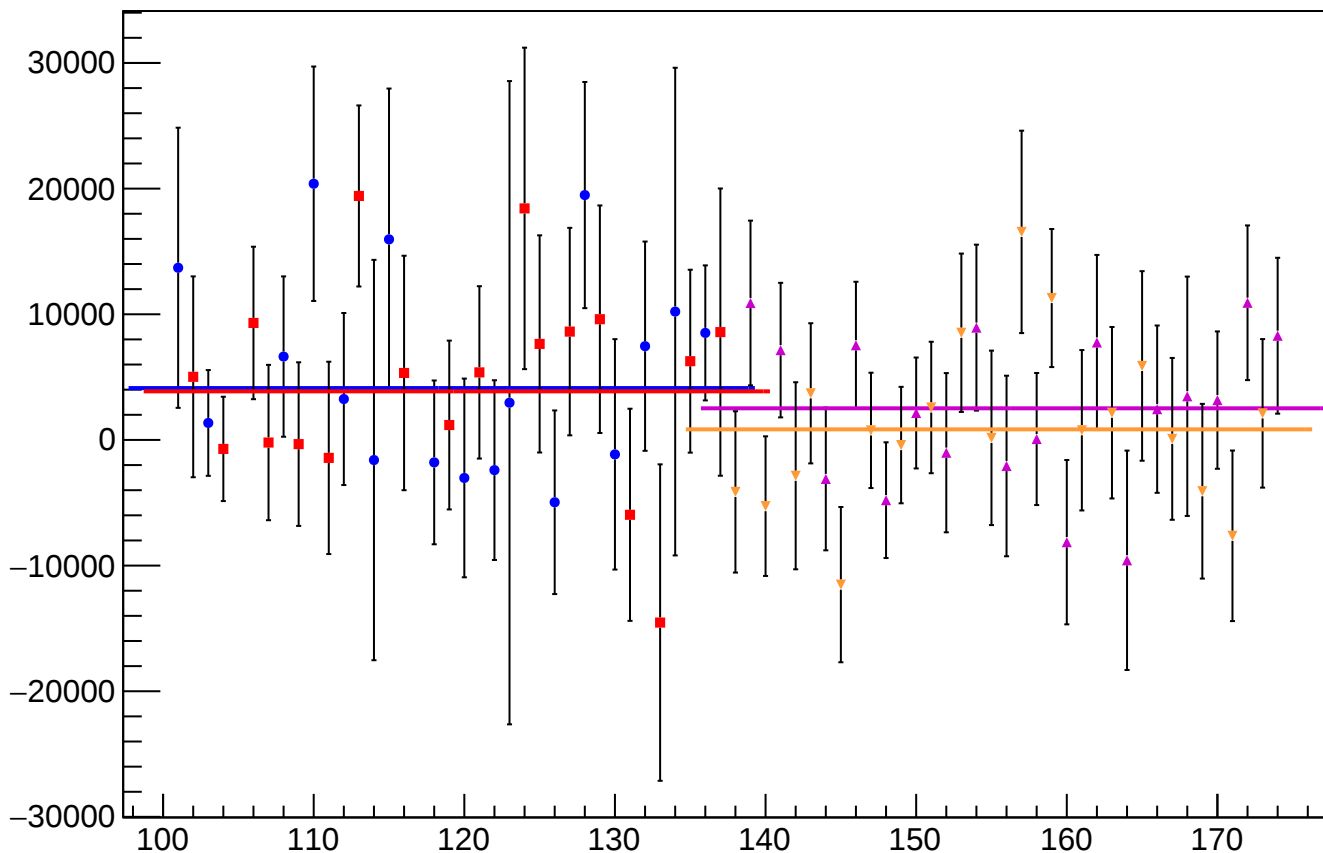
Right: 3603.092+/-0.744  $\chi^2/\text{NDF}$ : 3793704.0/34

In: 4549.766+/-0.724  $\chi^2/\text{NDF}$ : 2074049.8/34

Out: 4055.634+/-0.661  $\chi^2/\text{NDF}$ : 4664279.1/36

All: 4280.582+/-0.488  $\chi^2/\text{NDF}$ : 6992403.6/71

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



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

Left Out: 842.175 $\pm$ 1390.856  $\chi^2$ /NDF:18.0/18

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

Left In: 2516.581 $\pm$ 1404.644  $\chi^2$ /NDF:16.6/17

Left: 1671.120 $\pm$ 988.322  $\chi^2$ /NDF: 35.4/36

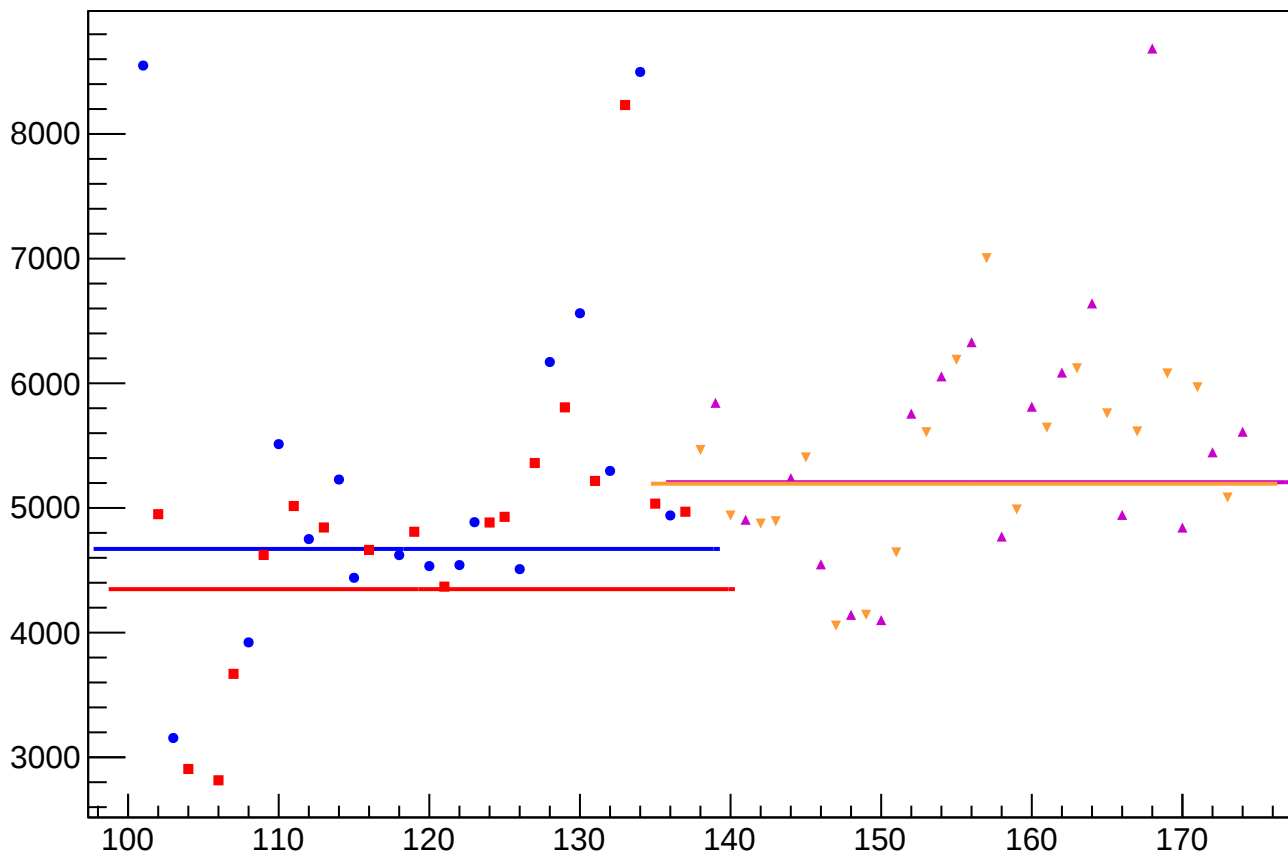
Right: 3986.746 $\pm$ 1266.737  $\chi^2$ /NDF: 27.9/34

In: 3100.096 $\pm$ 1121.588  $\chi^2$ /NDF:30.8/34

Out: 2031.611 $\pm$ 1083.358  $\chi^2$ /NDF:34.1/36

All: 2547.333 $\pm$ 779.215  $\chi^2$ /NDF: 65.4/71

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



Right In: 4671.319 $\pm$ 1.317  $\chi^2$ /NDF: 786112.0/16

Left Out: 5194.710 $\pm$ 0.983  $\chi^2$ /NDF: 546852.1/18

Right Out: 4348.716 $\pm$ 1.214  $\chi^2$ /NDF: 792425.3/17

Left In: 5206.499 $\pm$ 0.993  $\chi^2$ /NDF: 795908.8/17

Left: 5200.547 $\pm$ 0.699  $\chi^2$ /NDF: 1342832.0/36

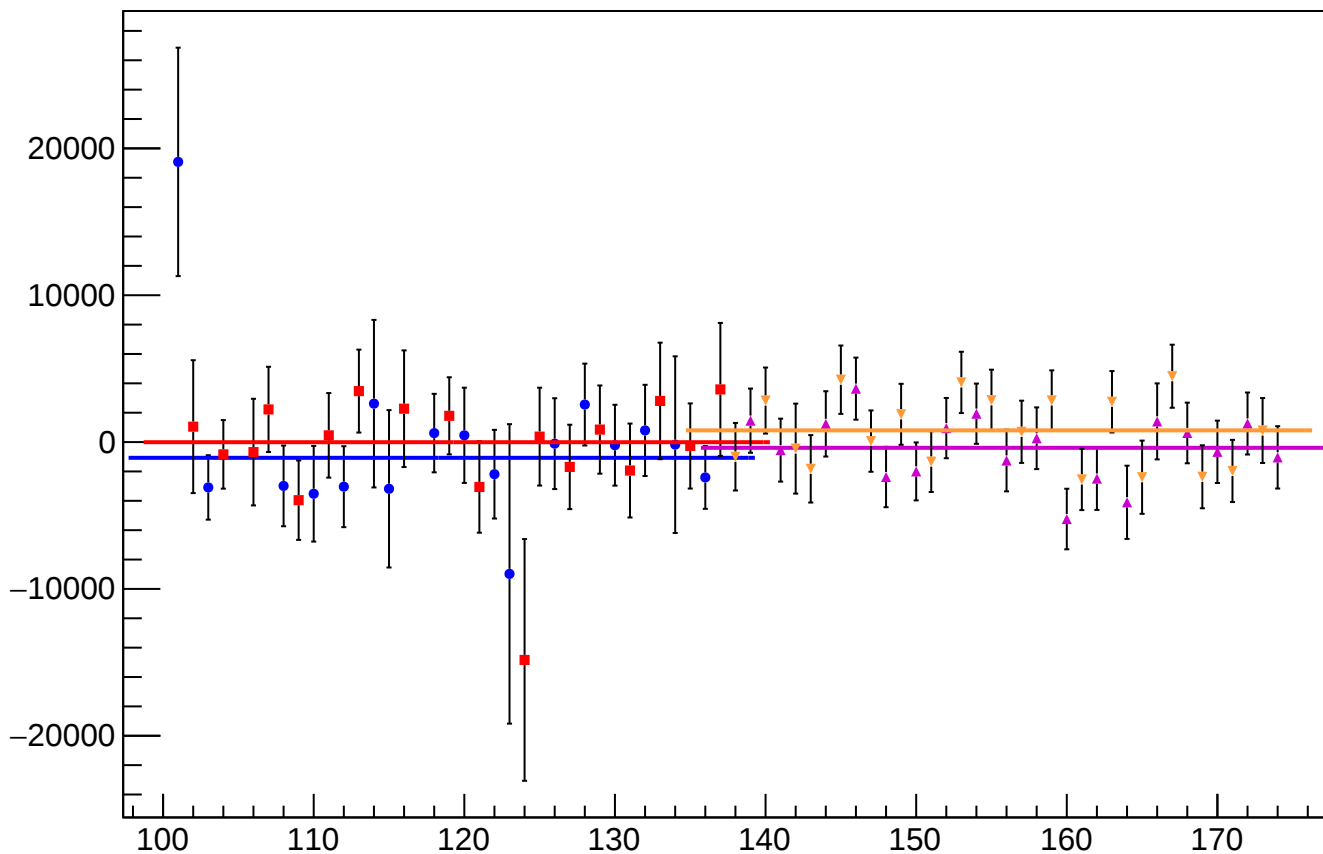
Right: 4496.923 $\pm$ 0.893  $\chi^2$ /NDF: 1610954.9/34

In: 5012.539 $\pm$ 0.793  $\chi^2$ /NDF: 1687243.6/34

Out: 4859.640 $\pm$ 0.764  $\chi^2$ /NDF: 1632345.4/36

All: 4933.265 $\pm$ 0.550  $\chi^2$ /NDF: 3338860.0/71

# 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: 798.323 $\pm$ 502.211  $\chi^2/\text{NDF}$ : 22.8/18

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

Left In: -391.019 $\pm$ 503.653  $\chi^2/\text{NDF}$ : 18.6/17

Left: 205.356 $\pm$ 355.625  $\chi^2/\text{NDF}$ : 44.3/36

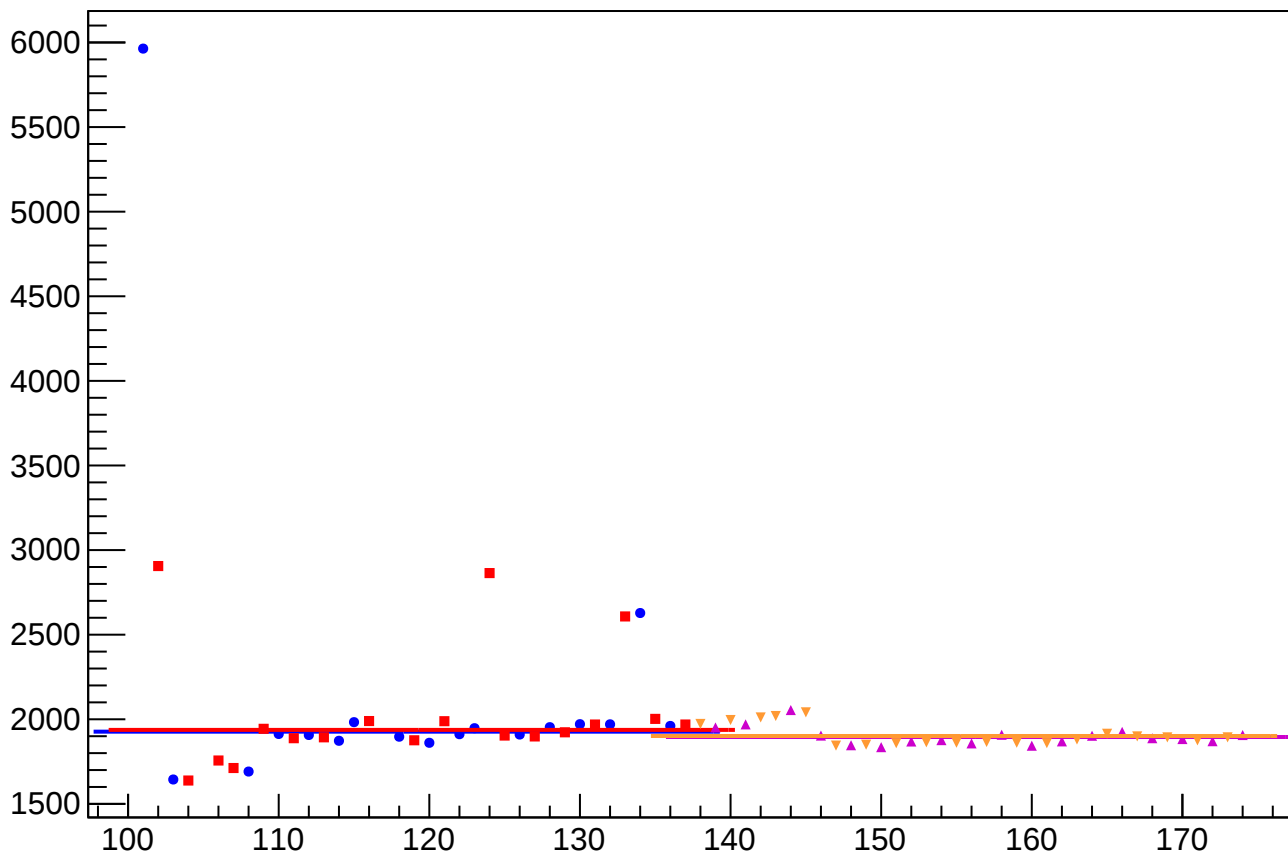
Right: -529.623 $\pm$ 534.164  $\chi^2/\text{NDF}$ : 26.1/34

In: -597.473 $\pm$ 420.330  $\chi^2/\text{NDF}$ : 32.9/34

Out: 547.543 $\pm$ 416.967  $\chi^2/\text{NDF}$ : 35.1/36

All: -20.366 $\pm$ 296.022  $\chi^2/\text{NDF}$ : 71.7/71

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



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

Left Out: 1901.255+/-0.355  $\chi^2/\text{NDF}$ : 28181.2/18

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

Left In: 1895.255+/-0.356  $\chi^2/\text{NDF}$ : 20501.9/17

Left: 1898.263+/-0.251  $\chi^2/\text{NDF}$ : 48825.4/36

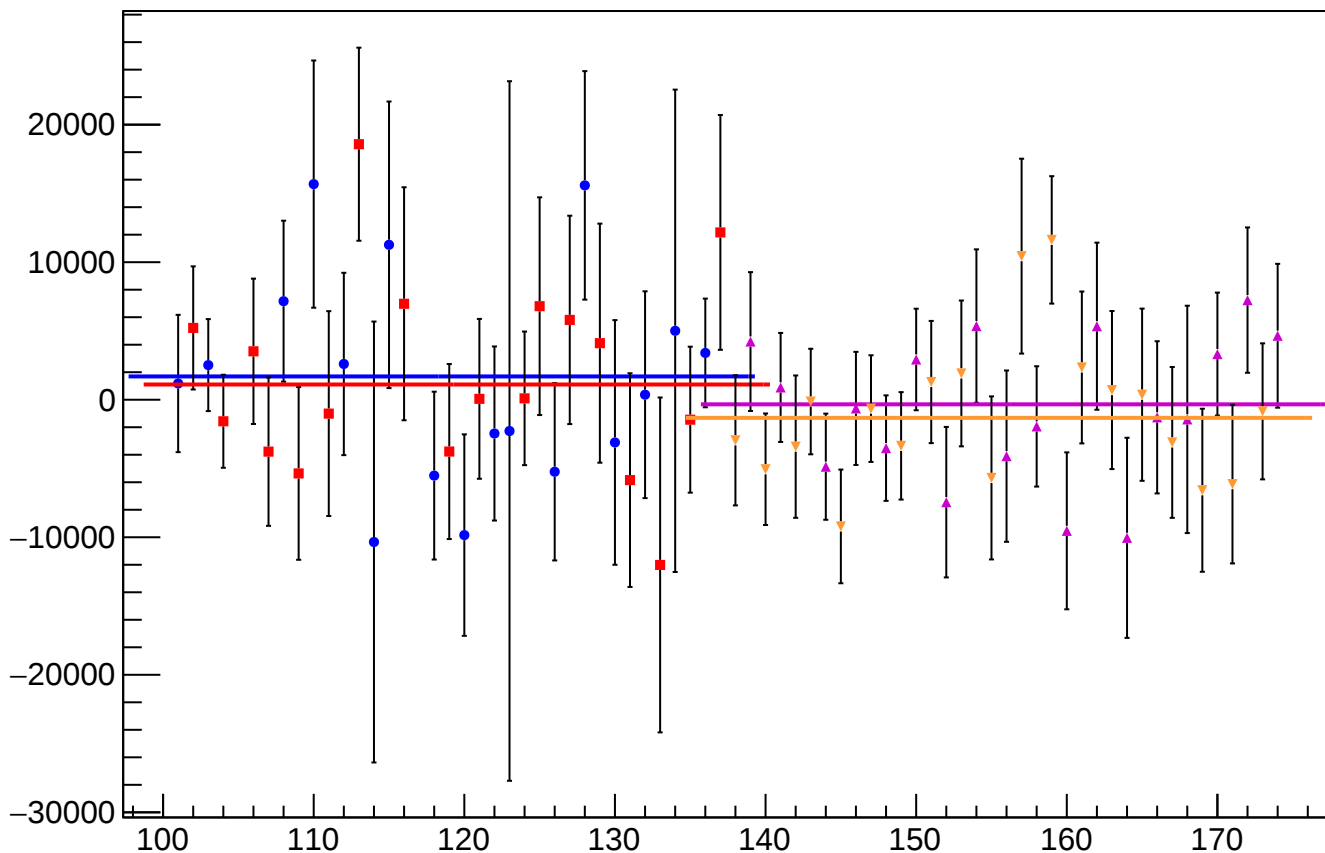
Right: 1932.191+/-0.378  $\chi^2/\text{NDF}$ : 846384.9/34

In: 1904.856+/-0.297  $\chi^2/\text{NDF}$ : 640013.0/34

Out: 1912.458+/-0.295  $\chi^2/\text{NDF}$ : 260461.1/36

All: 1908.689+/-0.209  $\chi^2/\text{NDF}$ : 900803.9/71

# 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: -1317.482 $\pm$ 1115.305  $\chi^2/\text{NDF}$ : 19.2/18

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

Left In: -334.058 $\pm$ 1146.598  $\chi^2/\text{NDF}$ : 15.9/17

Left: -839.372 $\pm$ 799.474  $\chi^2/\text{NDF}$ : 35.5/36

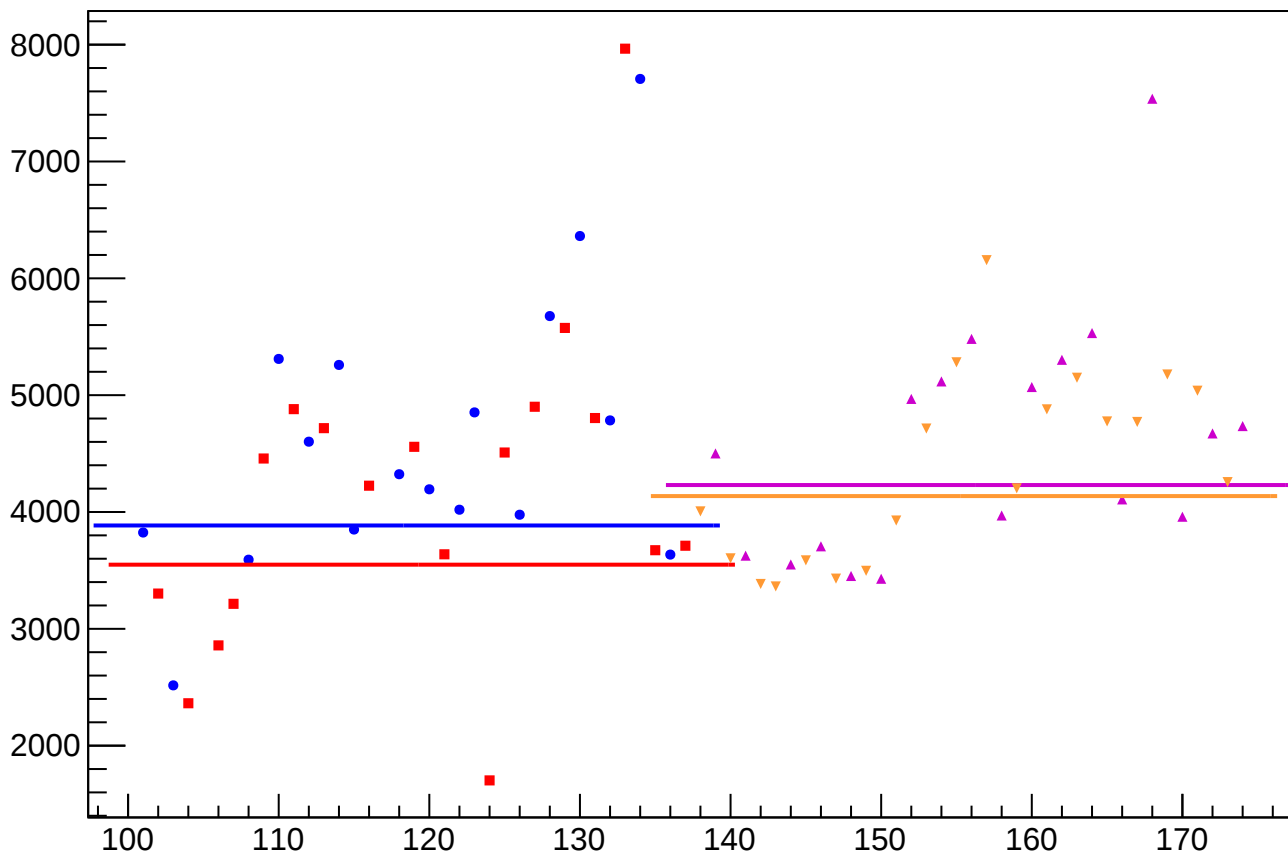
Right: 1373.479 $\pm$ 1044.694  $\chi^2/\text{NDF}$ : 29.6/34

In: 382.049 $\pm$ 922.206  $\chi^2/\text{NDF}$ : 30.7/34

Out: -386.207 $\pm$ 875.378  $\chi^2/\text{NDF}$ : 36.9/36

All: -22.079 $\pm$ 634.895  $\chi^2/\text{NDF}$ : 67.9/71

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



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

Left Out: 4136.182+/-0.789  $\chi^2/\text{NDF}$ : 838453.4/18

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

Left In: 4230.718+/-0.811  $\chi^2/\text{NDF}$ : 1028817.9/17

Left: 4182.142+/-0.565  $\chi^2/\text{NDF}$ : 1874257.1/36

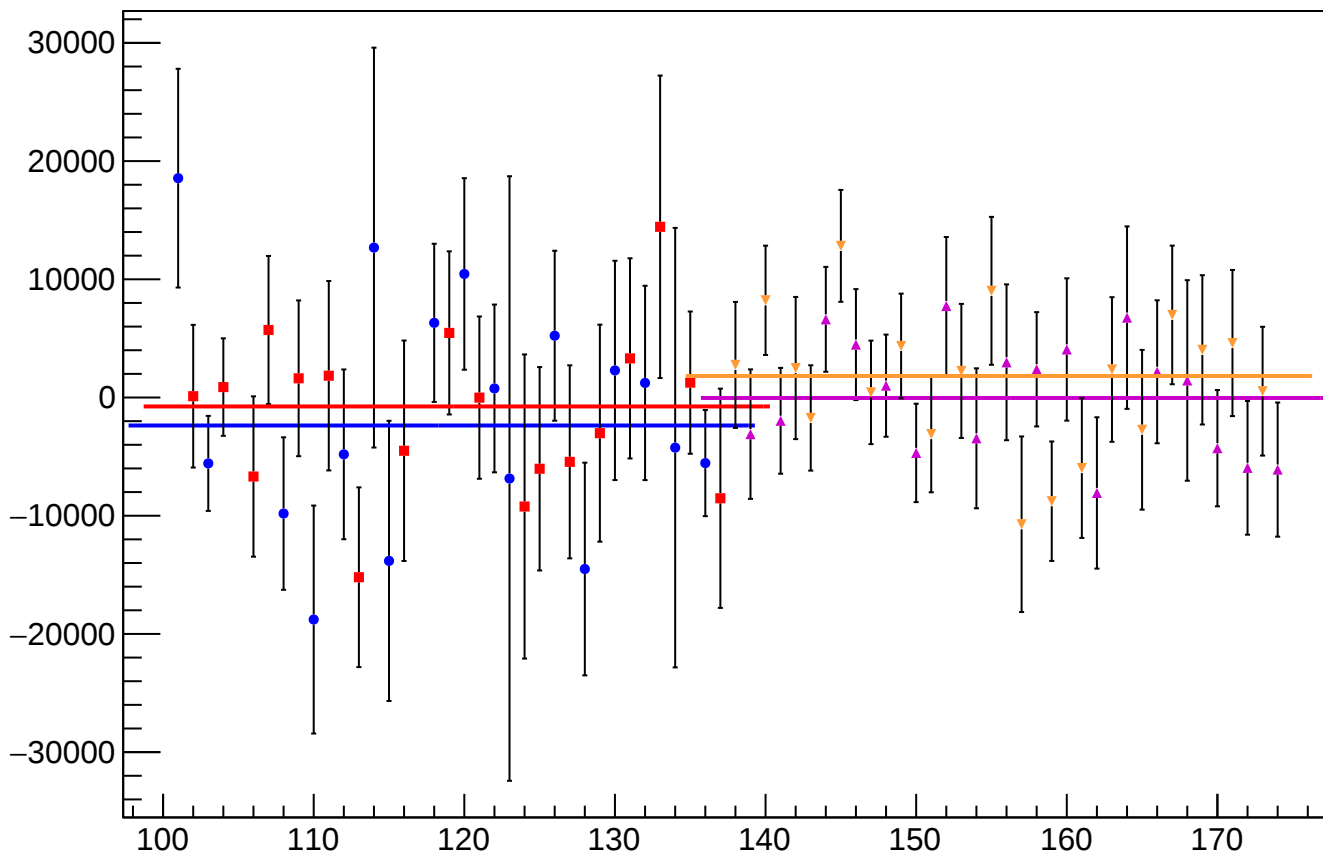
Right: 3701.146+/-0.739  $\chi^2/\text{NDF}$ : 2204616.7/34

In: 4108.502+/-0.652  $\chi^2/\text{NDF}$ : 1919732.3/34

Out: 3910.775+/-0.619  $\chi^2/\text{NDF}$ : 2378158.7/36

All: 4004.491+/-0.449  $\chi^2/\text{NDF}$ : 4346254.8/71

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



Right In: -2367.526+/-1801.942  $\chi^2/\text{NDF}$ : 20.1/16

Left Out: 1822.621+/-1236.329  $\chi^2/\text{NDF}$ : 21.4/18

Right Out: -755.757+/-1693.103  $\chi^2/\text{NDF}$ : 10.5/17

Left In: -38.067+/-1261.795  $\chi^2/\text{NDF}$ : 13.5/17

Left: 911.243+/-883.083  $\chi^2/\text{NDF}$ : 36.0/36

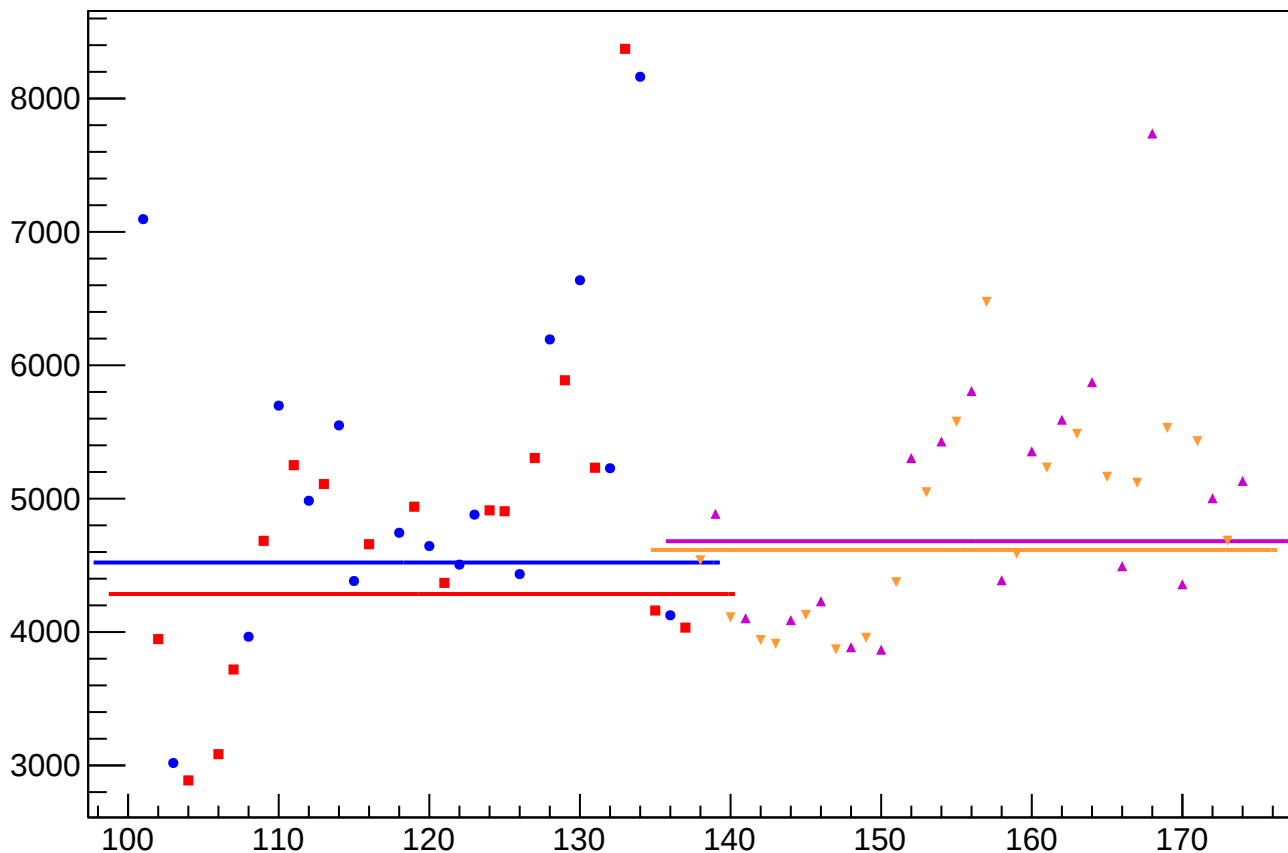
Right: -1511.498+/-1233.889  $\chi^2/\text{NDF}$ : 31.1/34

In: -804.485+/-1033.585  $\chi^2/\text{NDF}$ : 34.8/34

Out: 925.924+/-998.465  $\chi^2/\text{NDF}$ : 33.4/36

All: 90.618+/-718.116  $\chi^2/\text{NDF}$ : 69.6/71

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



Right In: 4521.230 $\pm$ 1.274  $\chi^2$ /NDF: 778675.0/16

Left Out: 4615.556 $\pm$ 0.874  $\chi^2$ /NDF: 579376.1/18

Right Out: 4285.069 $\pm$ 1.191  $\chi^2$ /NDF: 746400.9/17

Left In: 4681.338 $\pm$ 0.892  $\chi^2$ /NDF: 757212.1/17

Left: 4647.776 $\pm$ 0.624  $\chi^2$ /NDF: 1339361.6/36

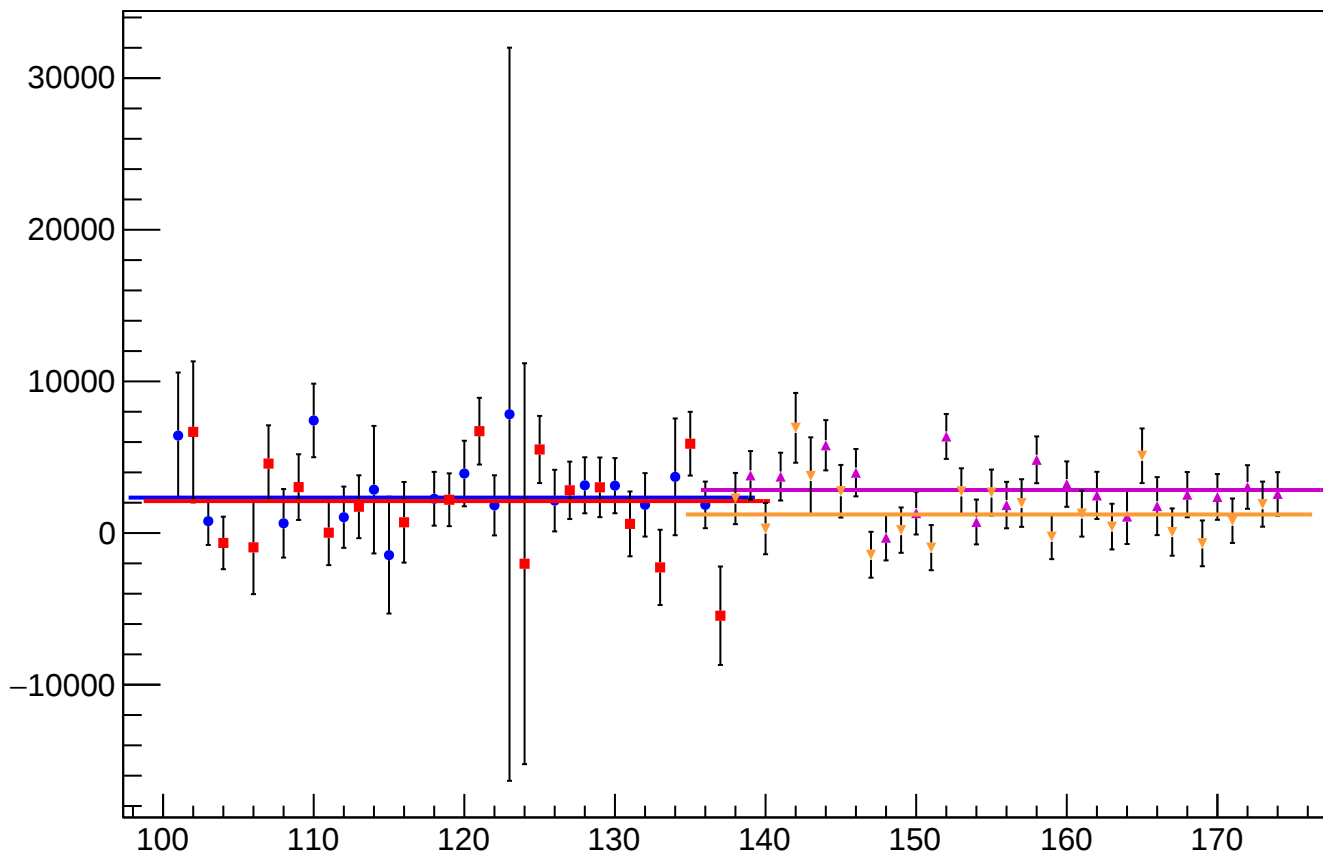
Right: 4395.146 $\pm$ 0.870  $\chi^2$ /NDF: 1543416.6/34

In: 4628.661 $\pm$ 0.731  $\chi^2$ /NDF: 1546481.9/34

Out: 4499.782 $\pm$ 0.705  $\chi^2$ /NDF: 1375840.8/36

All: 4561.869 $\pm$ 0.507  $\chi^2$ /NDF: 2938437.9/71

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



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

Left Out: 1226.023 $\pm$ 367.764  $\chi^2$ /NDF:24.8/18

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

Left In: 2838.504 $\pm$ 363.389  $\chi^2$ /NDF:21.3/17

Left: 2041.913 $\pm$ 258.488  $\chi^2$ /NDF: 55.9/36

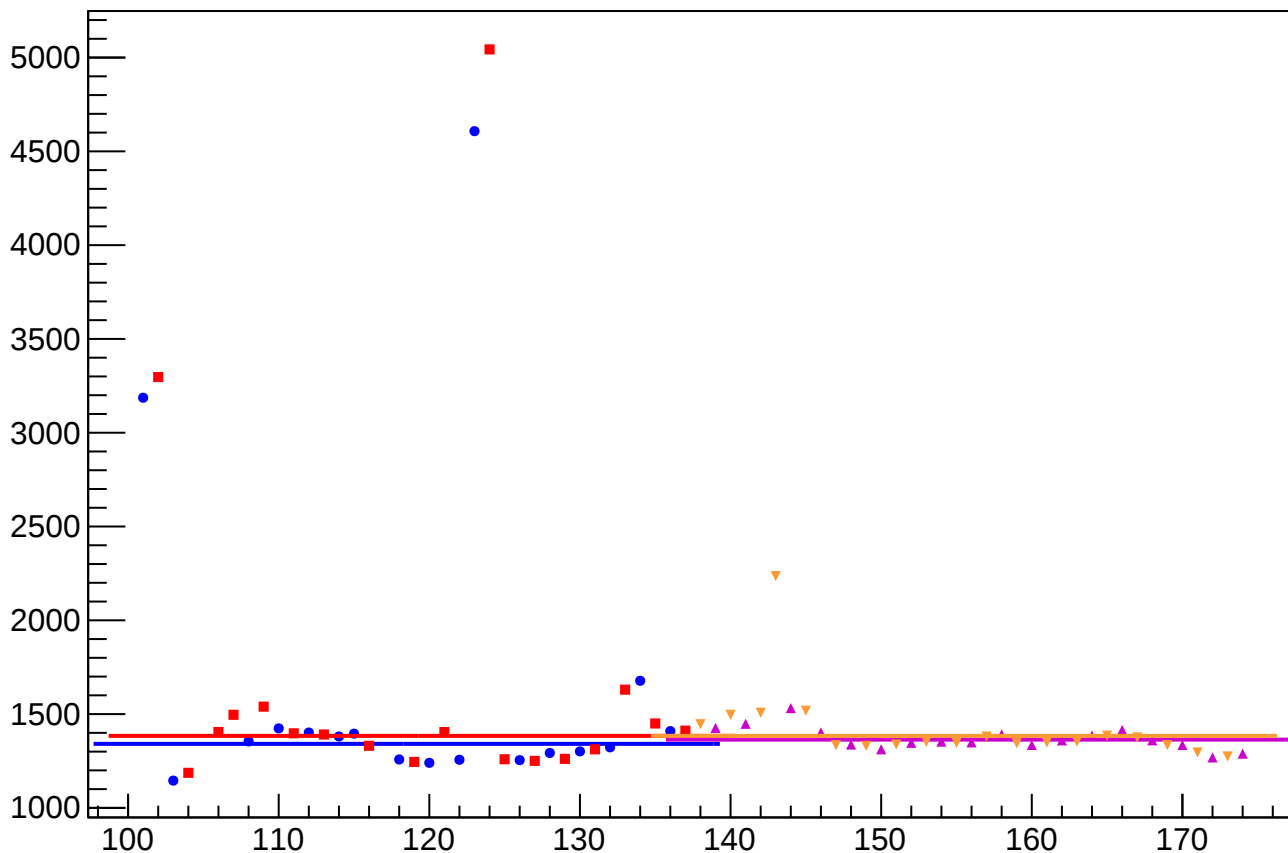
Right: 2223.866 $\pm$ 378.529  $\chi^2$ /NDF: 36.1/34

In: 2678.593 $\pm$ 299.912  $\chi^2$ /NDF:31.6/34

Out: 1505.479 $\pm$ 303.897  $\chi^2$ /NDF:53.0/36

All: 2099.777 $\pm$ 213.465  $\chi^2$ /NDF: 92.1/71

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



Right In: 1341.374 $\pm$ 0.376  $\chi^2$ /NDF: 504272.1/16

Left Out: 1383.956 $\pm$ 0.260  $\chi^2$ /NDF: 285019.1/18

Right Out: 1383.916 $\pm$ 0.381  $\chi^2$ /NDF: 593846.2/17

Left In: 1363.954 $\pm$ 0.257  $\chi^2$ /NDF: 52351.6/17

Left: 1373.836 $\pm$ 0.183  $\chi^2$ /NDF: 340364.2/36

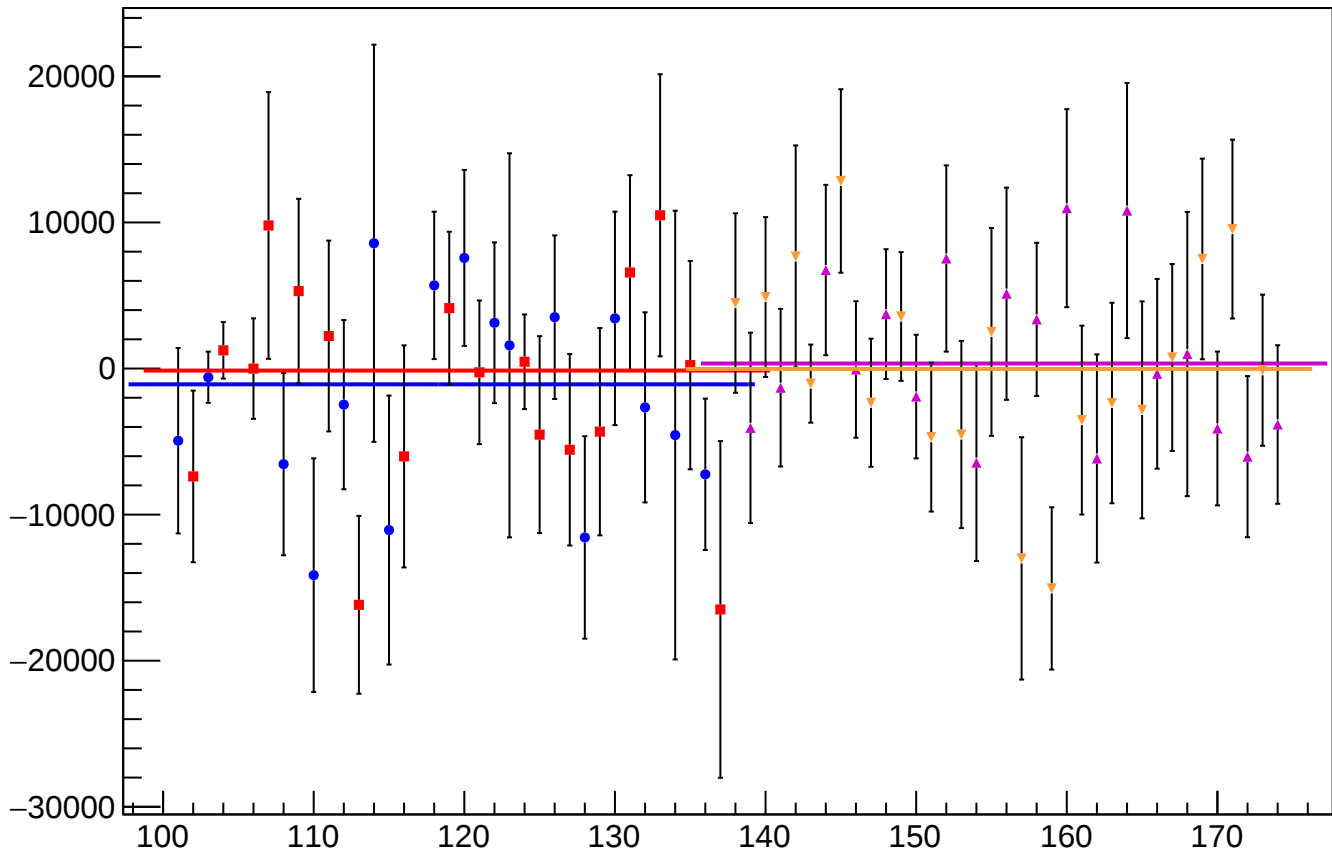
Right: 1362.318 $\pm$ 0.268  $\chi^2$ /NDF: 1104435.3/34

In: 1356.755 $\pm$ 0.212  $\chi^2$ /NDF: 559086.0/34

Out: 1383.944 $\pm$ 0.215  $\chi^2$ /NDF: 878865.3/36

All: 1370.172 $\pm$ 0.151  $\chi^2$ /NDF: 1446062.6/71

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



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

Left Out:  $-27.424 \pm 1241.784$   $\chi^2/\text{NDF}: 23.1/18$

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

Left In:  $344.728 \pm 1369.233$   $\chi^2/\text{NDF}: 13.1/17$

Left:  $140.530 \pm 919.839$   $\chi^2/\text{NDF}: 36.2/36$

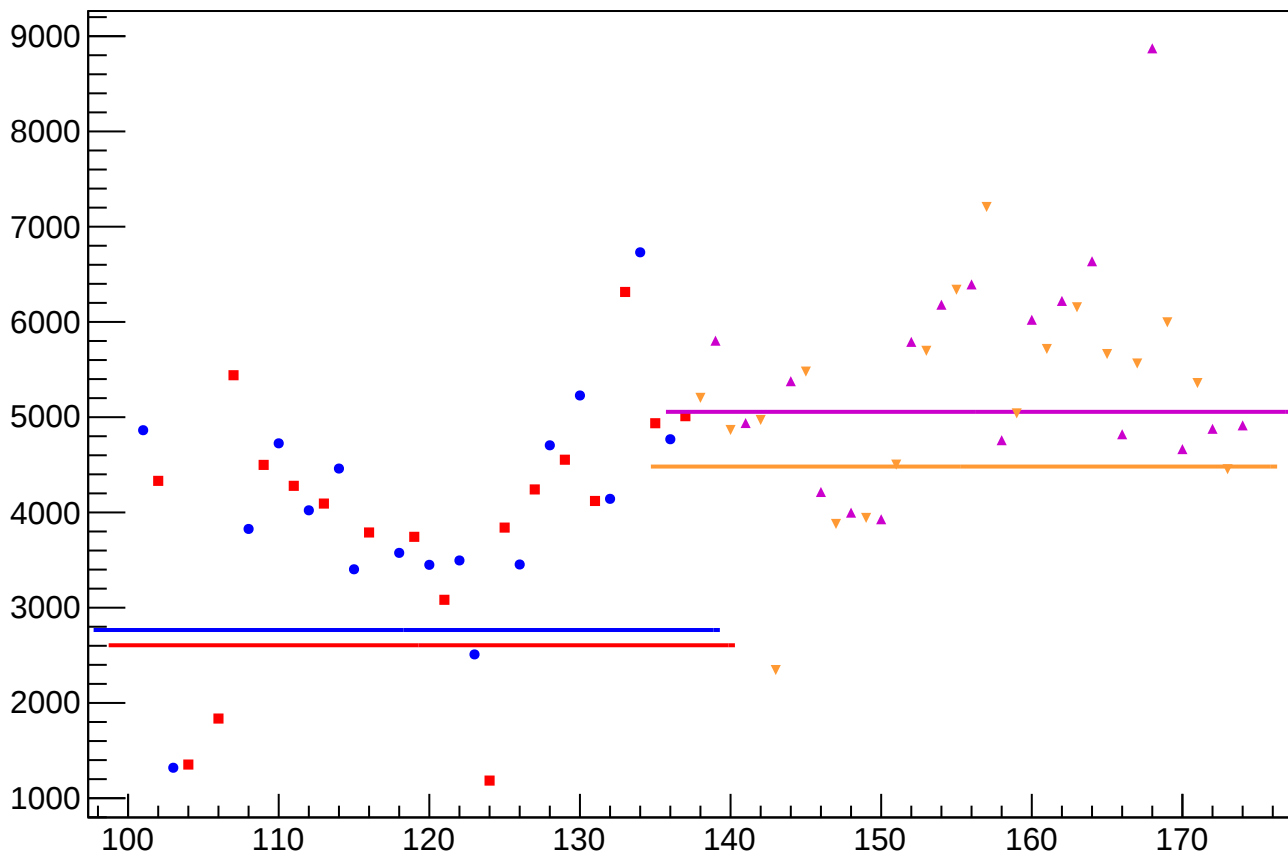
Right:  $-576.559 \pm 826.355$   $\chi^2/\text{NDF}: 33.3/34$

In:  $-454.463 \pm 907.696$   $\chi^2/\text{NDF}: 28.7/34$

Out:  $-88.403 \pm 835.486$   $\chi^2/\text{NDF}: 41.1/36$

All:  $-256.295 \pm 614.723$   $\chi^2/\text{NDF}: 69.9/71$

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



Right In: 2765.736 $\pm$ 0.857  $\chi^2$ /NDF: 2939083.2/16

Left Out: 4481.623 $\pm$ 0.878  $\chi^2$ /NDF: 2322002.6/18

Right Out: 2605.528 $\pm$ 0.799  $\chi^2$ /NDF: 3322334.9/17

Left In: 5056.136 $\pm$ 0.968  $\chi^2$ /NDF: 994905.0/17

Left: 4740.903 $\pm$ 0.650  $\chi^2$ /NDF: 3510107.6/36

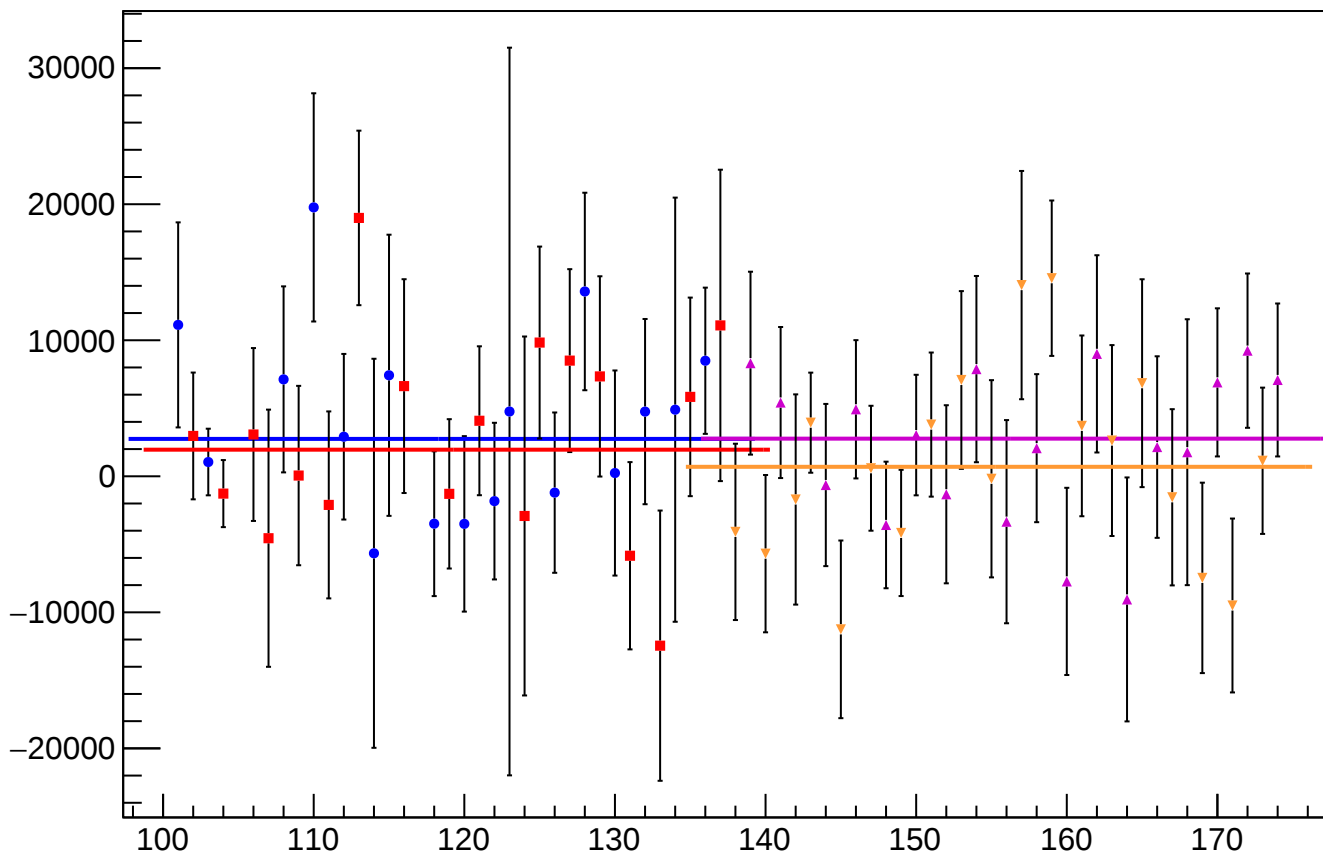
Right: 2679.956 $\pm$ 0.584  $\chi^2$ /NDF: 6280117.2/34

In: 3772.290 $\pm$ 0.642  $\chi^2$ /NDF: 7070876.8/34

Out: 3454.789 $\pm$ 0.591  $\chi^2$ /NDF: 8142916.5/36

All: 3600.410 $\pm$ 0.435  $\chi^2$ /NDF: 15346264.6/70

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: 697.262+/-1350.751  $\chi^2/\text{NDF}$ : 21.8/18

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

Left In: 2767.400+/-1418.572  $\chi^2/\text{NDF}$ : 12.2/17

Left: 1681.664+/-978.223  $\chi^2/\text{NDF}$ : 35.1/36

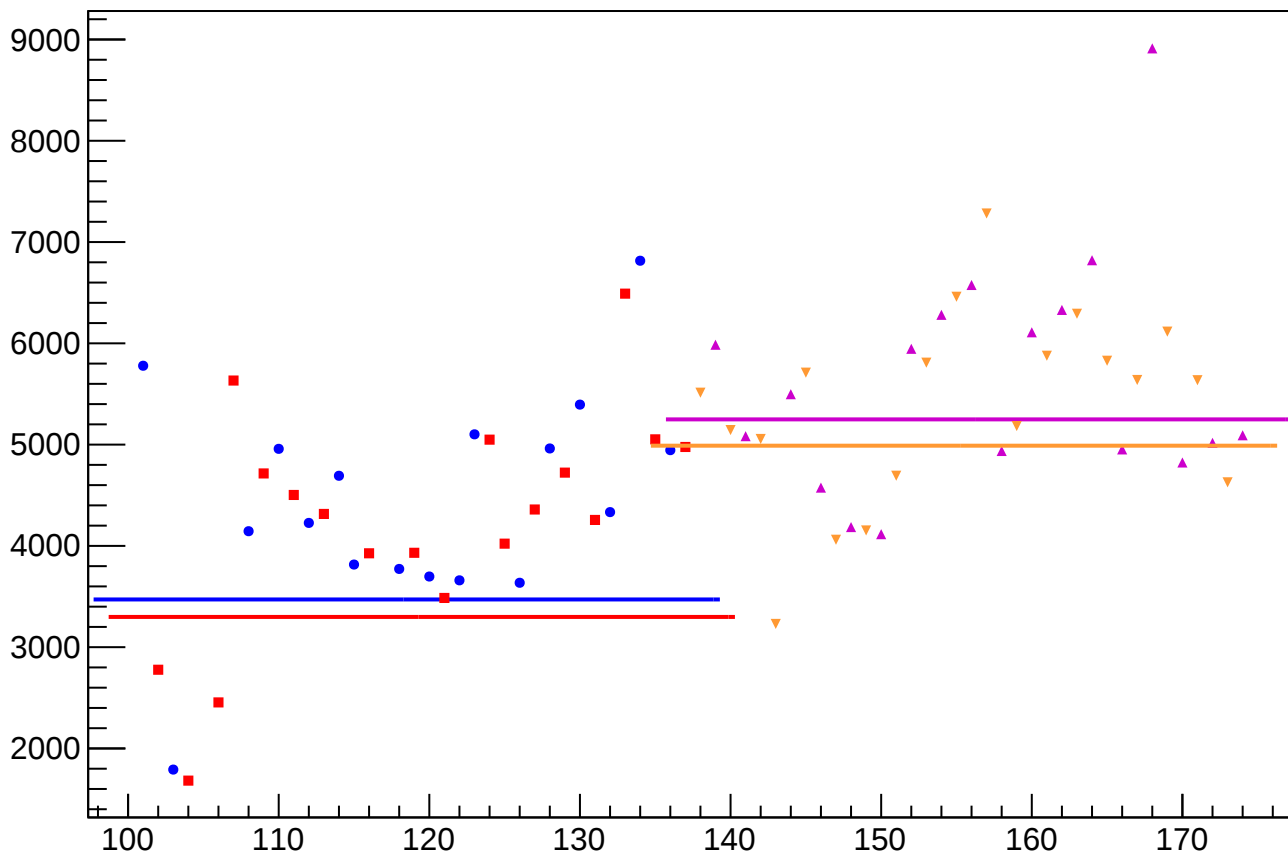
Right: 2334.662+/-1000.160  $\chi^2/\text{NDF}$ : 31.7/34

In: 2758.027+/-1012.859  $\chi^2/\text{NDF}$ : 26.0/34

Out: 1311.155+/-966.768  $\chi^2/\text{NDF}$ : 40.0/36

All: 2000.923+/-699.335  $\chi^2/\text{NDF}$ : 67.0/71

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: 4989.421+/-0.955  $\chi^2/\text{NDF}$ : 1145359.2/18

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

Left In: 5249.115+/-1.003  $\chi^2/\text{NDF}$ : 876854.4/17

Left: 5112.912+/-0.692  $\chi^2/\text{NDF}$ : 2057368.0/36

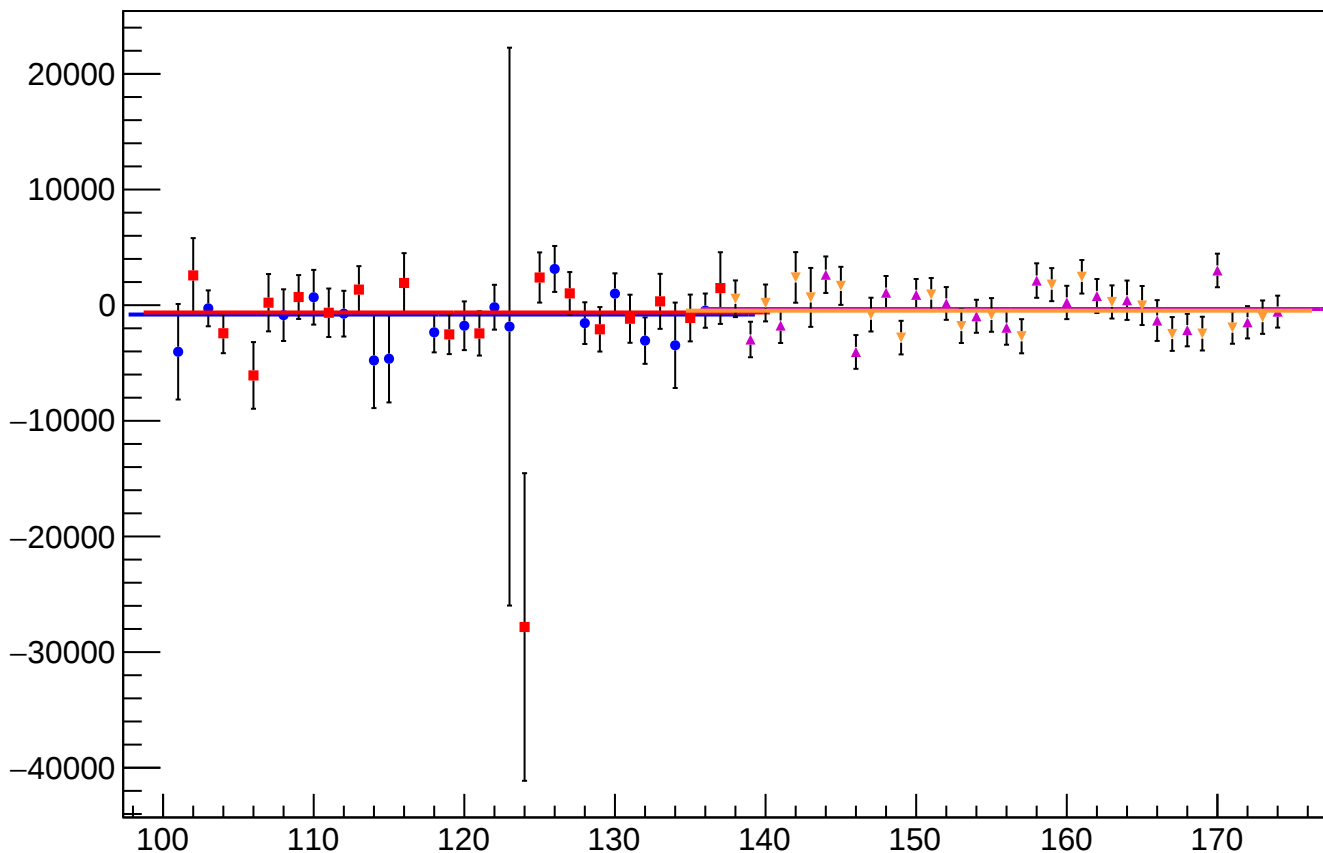
Right: 3380.318+/-0.704  $\chi^2/\text{NDF}$ : 3668889.8/34

In: 4377.528+/-0.716  $\chi^2/\text{NDF}$ : 4184890.1/34

Out: 4156.989+/-0.681  $\chi^2/\text{NDF}$ : 4574186.4/36

All: 4261.631+/-0.493  $\chi^2/\text{NDF}$ : 8808907.2/71

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



Right In: -809.017 $\pm$ 518.190  $\chi^2$ /NDF: 11.2/16

Left Out: -475.867 $\pm$ 351.755  $\chi^2$ /NDF:22.8/18

Right Out: -630.651 $\pm$ 514.931  $\chi^2$ /NDF: 18.6/17

Left In: -328.820 $\pm$ 347.590  $\chi^2$ /NDF:28.8/17

Left: -401.468 $\pm$ 247.243  $\chi^2$ /NDF: 51.7/36

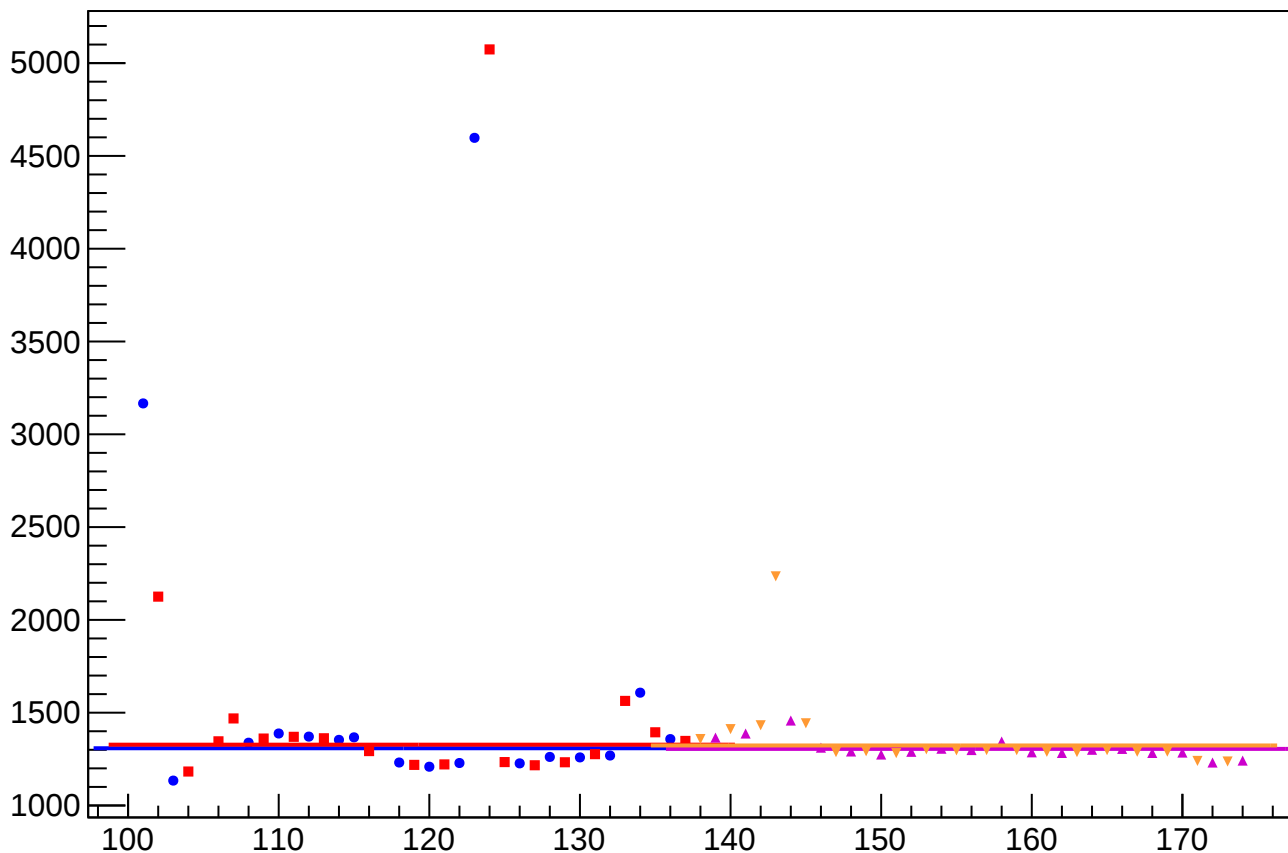
Right: -719.271 $\pm$ 365.258  $\chi^2$ /NDF: 29.8/34

In: -477.833 $\pm$ 288.664  $\chi^2$ /NDF:40.5/34

Out: -525.115 $\pm$ 290.455  $\chi^2$ /NDF:41.5/36

All: -501.328 $\pm$ 204.746  $\chi^2$ /NDF: 82.0/71

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



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

Left Out: 1323.361+/-0.249  $\chi^2/\text{NDF}$ : 303566.4/18

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

Left In: 1304.907+/-0.246  $\chi^2/\text{NDF}$ : 42148.8/17

Left: 1314.024+/-0.175  $\chi^2/\text{NDF}$ : 348500.4/36

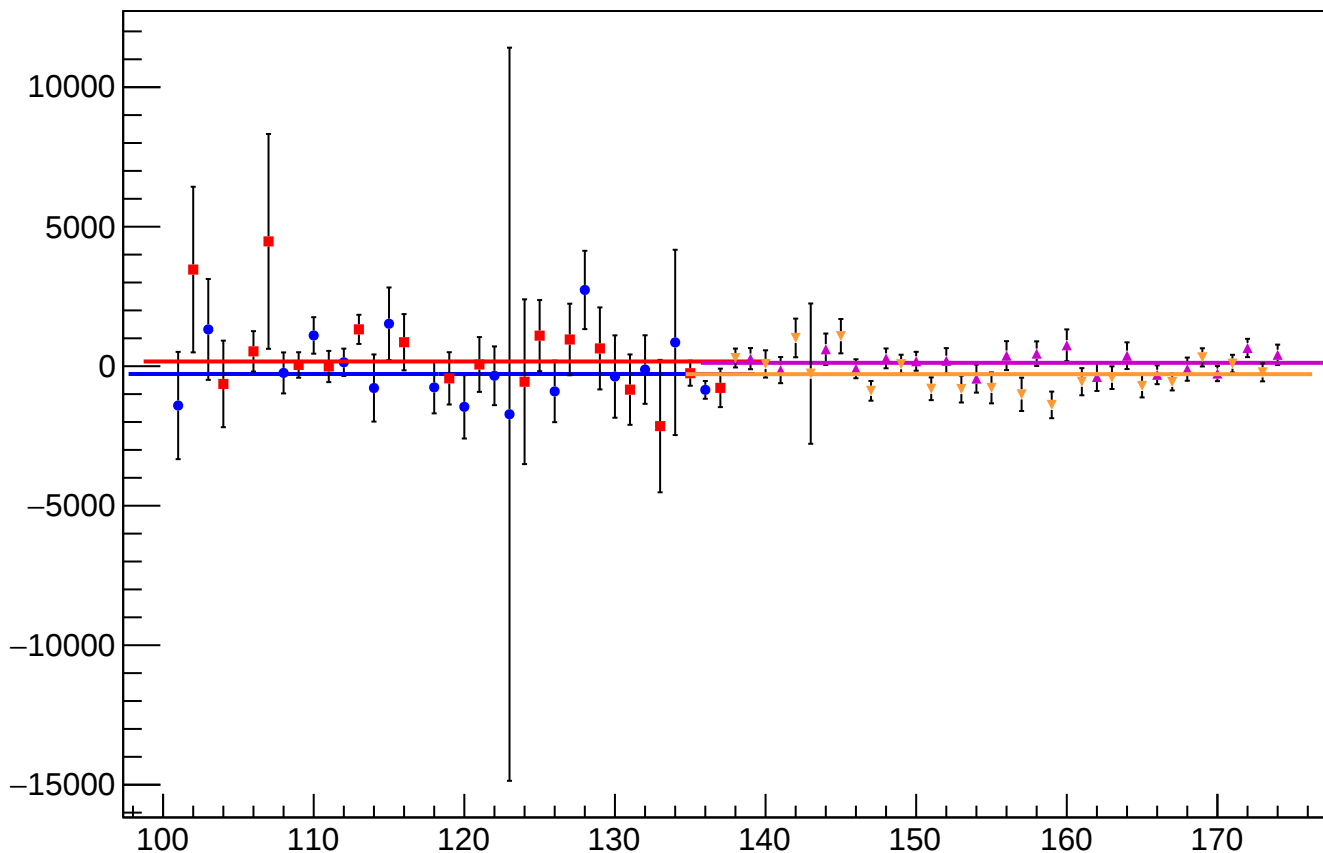
Right: 1318.067+/-0.258  $\chi^2/\text{NDF}$ : 865268.7/34

In: 1305.980+/-0.204  $\chi^2/\text{NDF}$ : 548755.4/34

Out: 1324.725+/-0.205  $\chi^2/\text{NDF}$ : 660991.4/36

All: 1315.294+/-0.145  $\chi^2/\text{NDF}$ : 1213937.2/71

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



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

Left Out: -285.217+/-94.797  $\chi^2/\text{NDF}$ :33.5/18

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

Left In: 120.924+/-93.643  $\chi^2/\text{NDF}$ :13.6/17

Left: -79.659+/-66.620  $\chi^2/\text{NDF}$ : 56.4/36

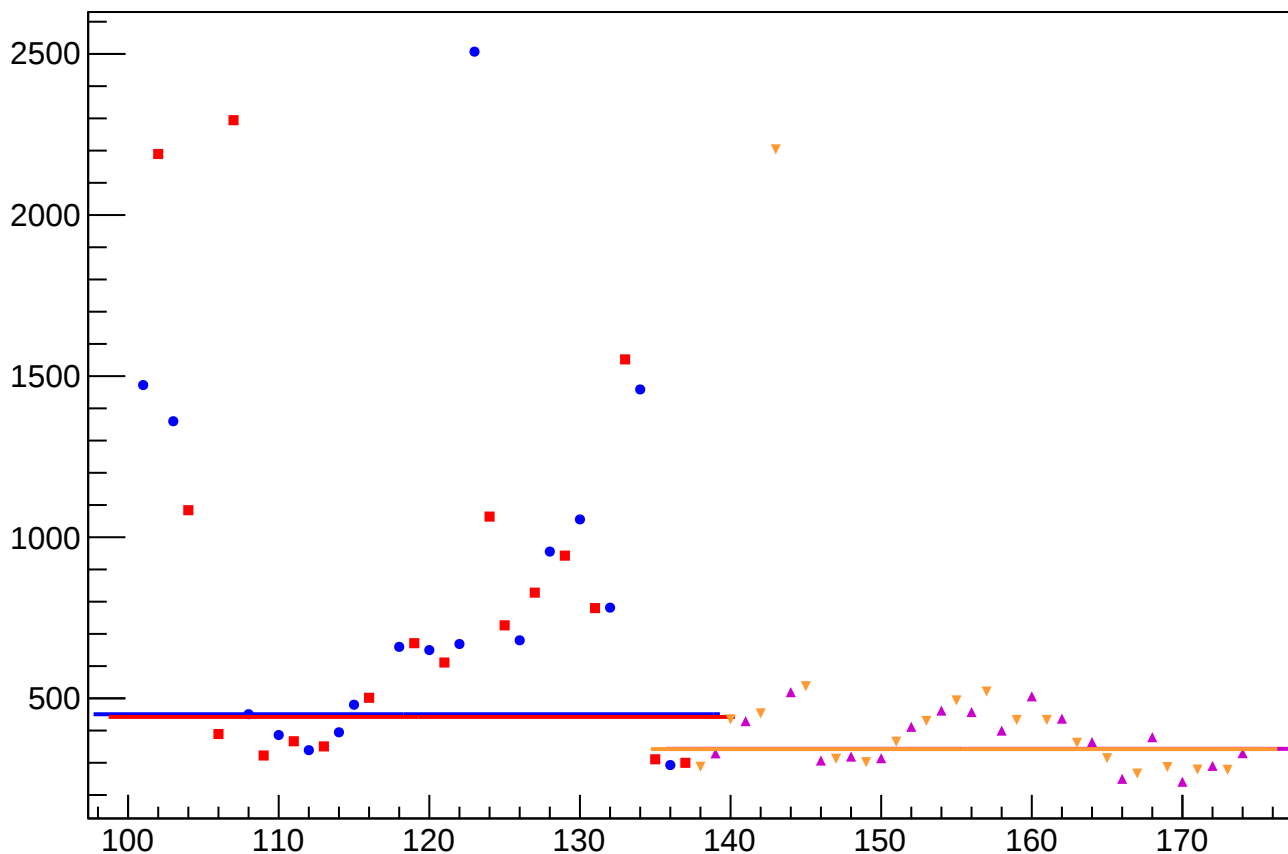
Right: -48.085+/-138.058  $\chi^2/\text{NDF}$ : 35.0/34

In: 47.949+/-84.662  $\chi^2/\text{NDF}$ :35.0/34

Out: -196.437+/-85.043  $\chi^2/\text{NDF}$ :52.3/36

All: -73.695+/-59.999  $\chi^2/\text{NDF}$ : 91.5/71

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



Right In: 450.595 $\pm$ 0.140  $\chi^2$ /NDF: 2997735.1/16

Left Out: 342.463 $\pm$ 0.067  $\chi^2$ /NDF: 2412851.4/18

Right Out: 442.368 $\pm$ 0.136  $\chi^2$ /NDF: 3368329.0/17

Left In: 343.274 $\pm$ 0.066  $\chi^2$ /NDF: 1340740.0/17

Left: 342.873 $\pm$ 0.047  $\chi^2$ /NDF: 3753665.4/36

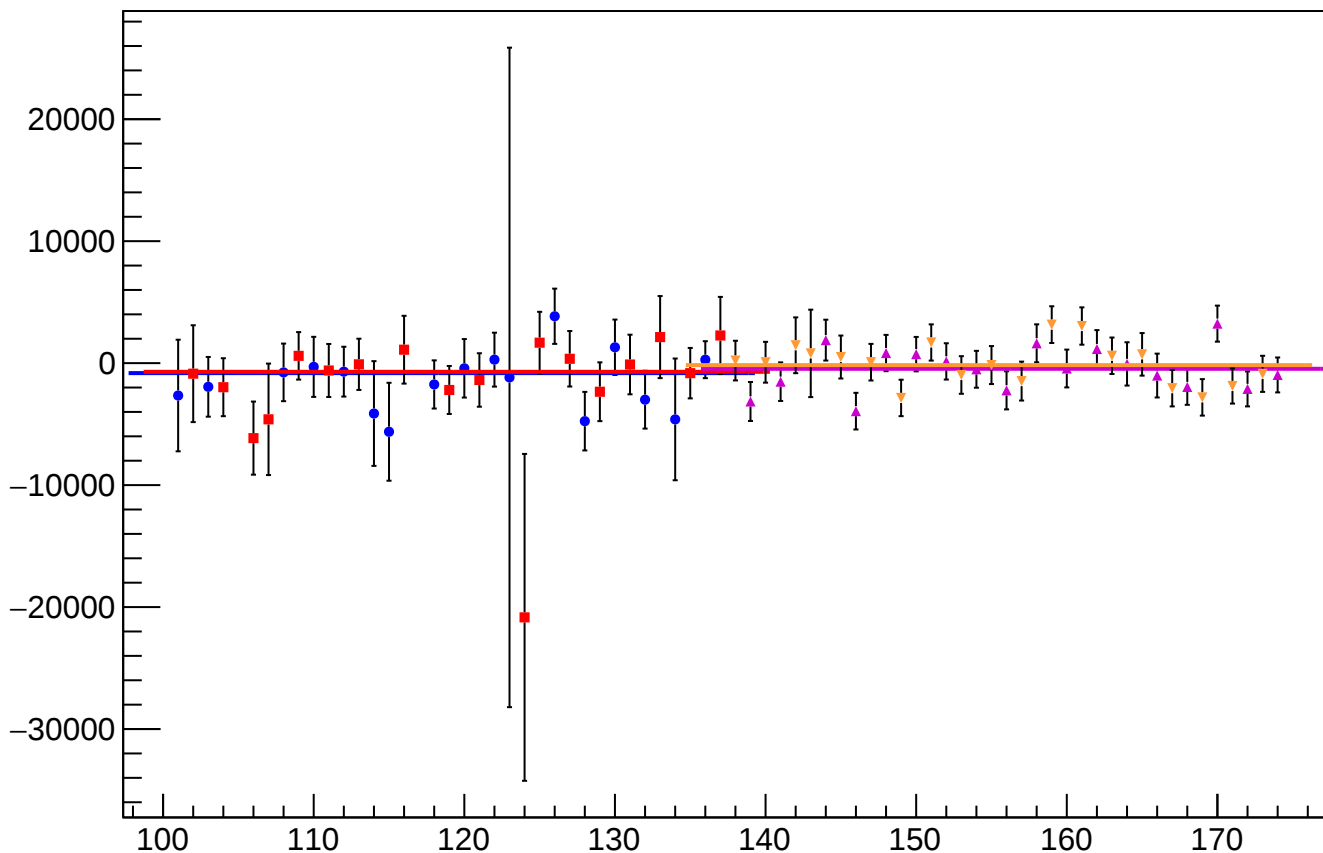
Right: 446.363 $\pm$ 0.098  $\chi^2$ /NDF: 6367838.5/34

In: 362.871 $\pm$ 0.060  $\chi^2$ /NDF: 4818174.2/34

Out: 361.964 $\pm$ 0.060  $\chi^2$ /NDF: 6214775.8/36

All: 362.420 $\pm$ 0.042  $\chi^2$ /NDF: 11033064.3/70

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



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

Left Out: -161.793+/-368.248  $\chi^2/\text{NDF}$ : 22.7/18

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

Left In: -463.079+/-362.380  $\chi^2/\text{NDF}$ : 25.3/17

Left: -314.856+/-258.291  $\chi^2/\text{NDF}$ : 48.3/36

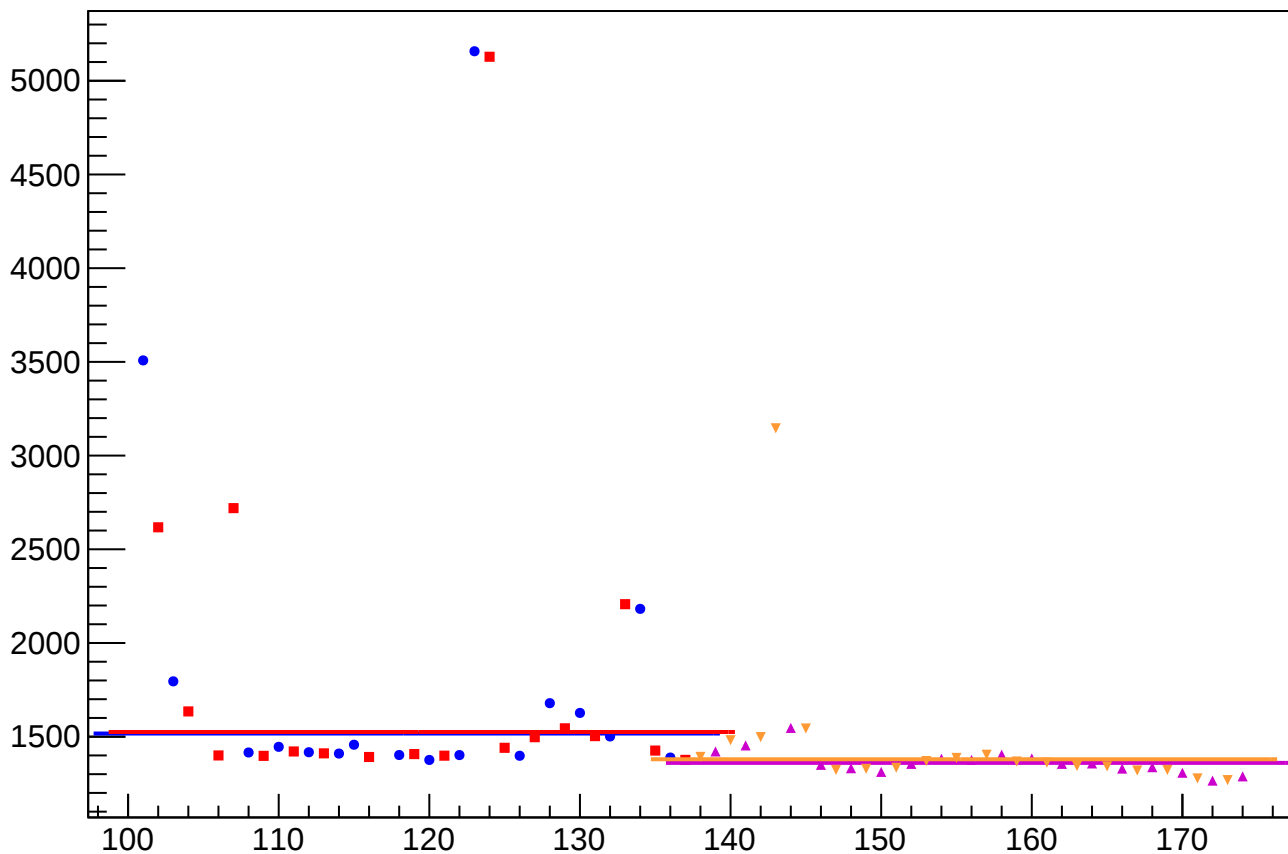
Right: -763.412+/-423.268  $\chi^2/\text{NDF}$ : 24.1/34

In: -557.439+/-310.352  $\chi^2/\text{NDF}$ : 38.3/34

Out: -313.401+/-313.283  $\chi^2/\text{NDF}$ : 34.7/36

All: -436.567+/-220.481  $\chi^2/\text{NDF}$ : 73.3/71

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: 1379.580 $\pm$ 0.260  $\chi^2$ /NDF: 553534.9/18

Right Out: 1525.099 $\pm$ 0.421  $\chi^2$ /NDF: 571929.2/17

Left In: 1360.240 $\pm$ 0.256  $\chi^2$ /NDF: 57949.4/17

Left: 1369.755 $\pm$ 0.183  $\chi^2$ /NDF: 614286.9/36

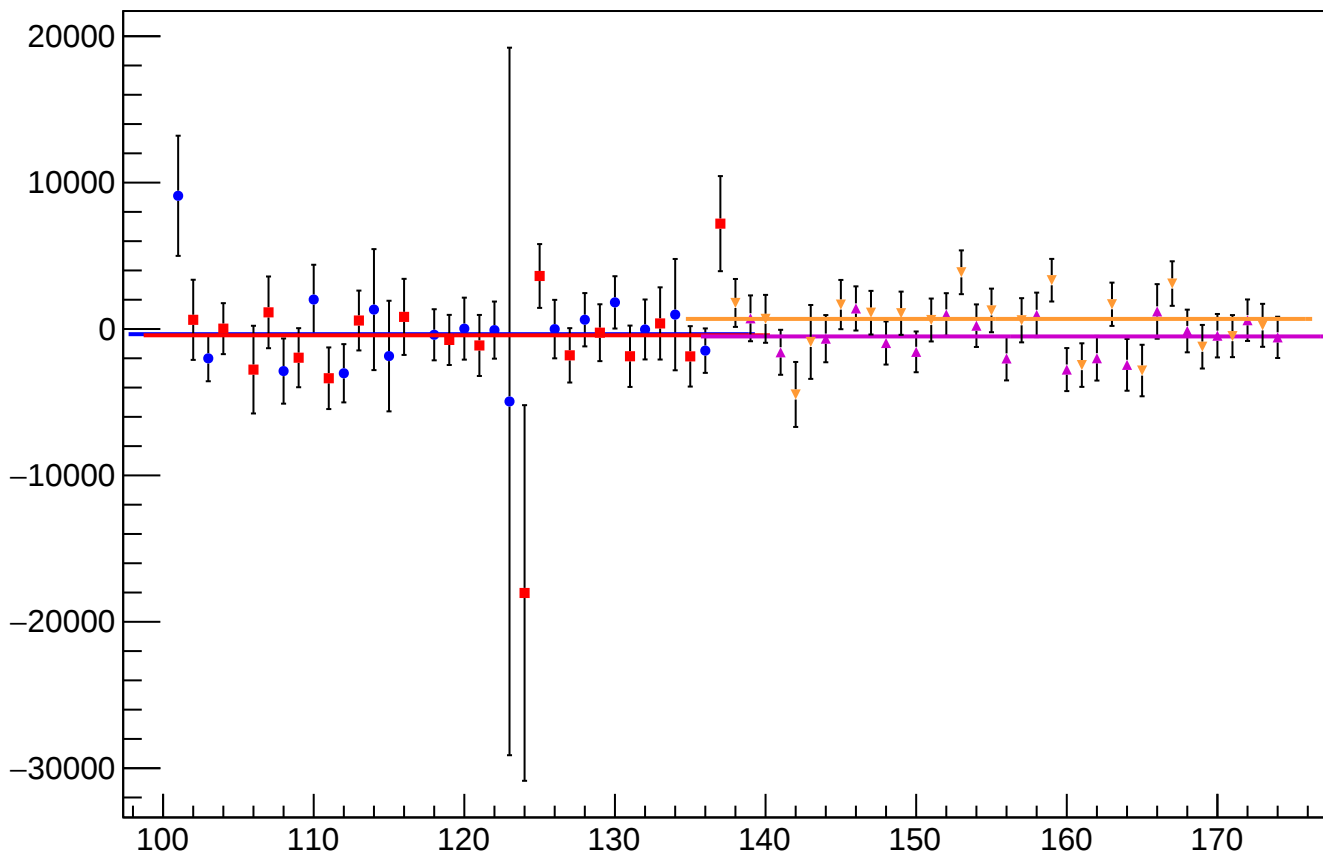
Right: 1521.052 $\pm$ 0.299  $\chi^2$ /NDF: 1113154.8/34

In: 1402.004 $\pm$ 0.219  $\chi^2$ /NDF: 698658.1/34

Out: 1419.779 $\pm$ 0.222  $\chi^2$ /NDF: 1211738.2/36

All: 1410.808 $\pm$ 0.156  $\chi^2$ /NDF: 1913645.7/71

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



Right In: -353.131 $\pm$ 523.324  $\chi^2$ /NDF: 13.4/16

Left Out: 689.520 $\pm$ 360.176  $\chi^2$ /NDF:28.6/18

Right Out: -429.167 $\pm$ 522.342  $\chi^2$ /NDF: 16.8/17

Left In: -507.077 $\pm$ 356.139  $\chi^2$ /NDF:12.7/17

Left: 84.479 $\pm$ 253.244  $\chi^2$ /NDF: 46.9/36

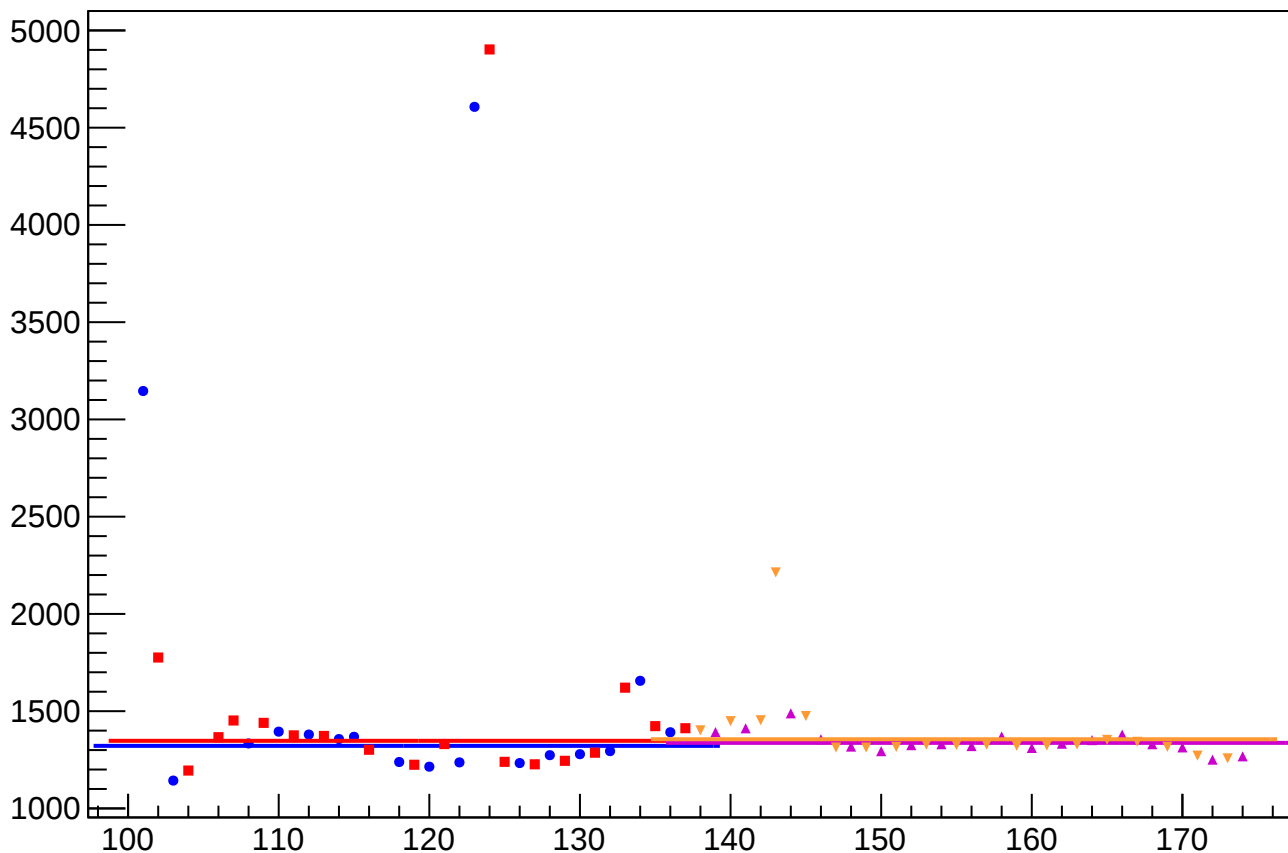
Right: -391.220 $\pm$ 369.698  $\chi^2$ /NDF: 30.3/34

In: -458.348 $\pm$ 294.428  $\chi^2$ /NDF:26.2/34

Out: 329.025 $\pm$ 296.517  $\chi^2$ /NDF:48.6/36

All: -67.445 $\pm$ 208.927  $\chi^2$ /NDF: 78.3/71

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



Right In: 1321.703 $\pm$ 0.370  $\chi^2$ /NDF: 502245.7/16

Left Out: 1355.662 $\pm$ 0.255  $\chi^2$ /NDF: 279914.6/18

Right Out: 1347.646 $\pm$ 0.369  $\chi^2$ /NDF: 286301.2/17

Left In: 1337.064 $\pm$ 0.252  $\chi^2$ /NDF: 43507.9/17

Left: 1346.258 $\pm$ 0.179  $\chi^2$ /NDF: 326118.8/36

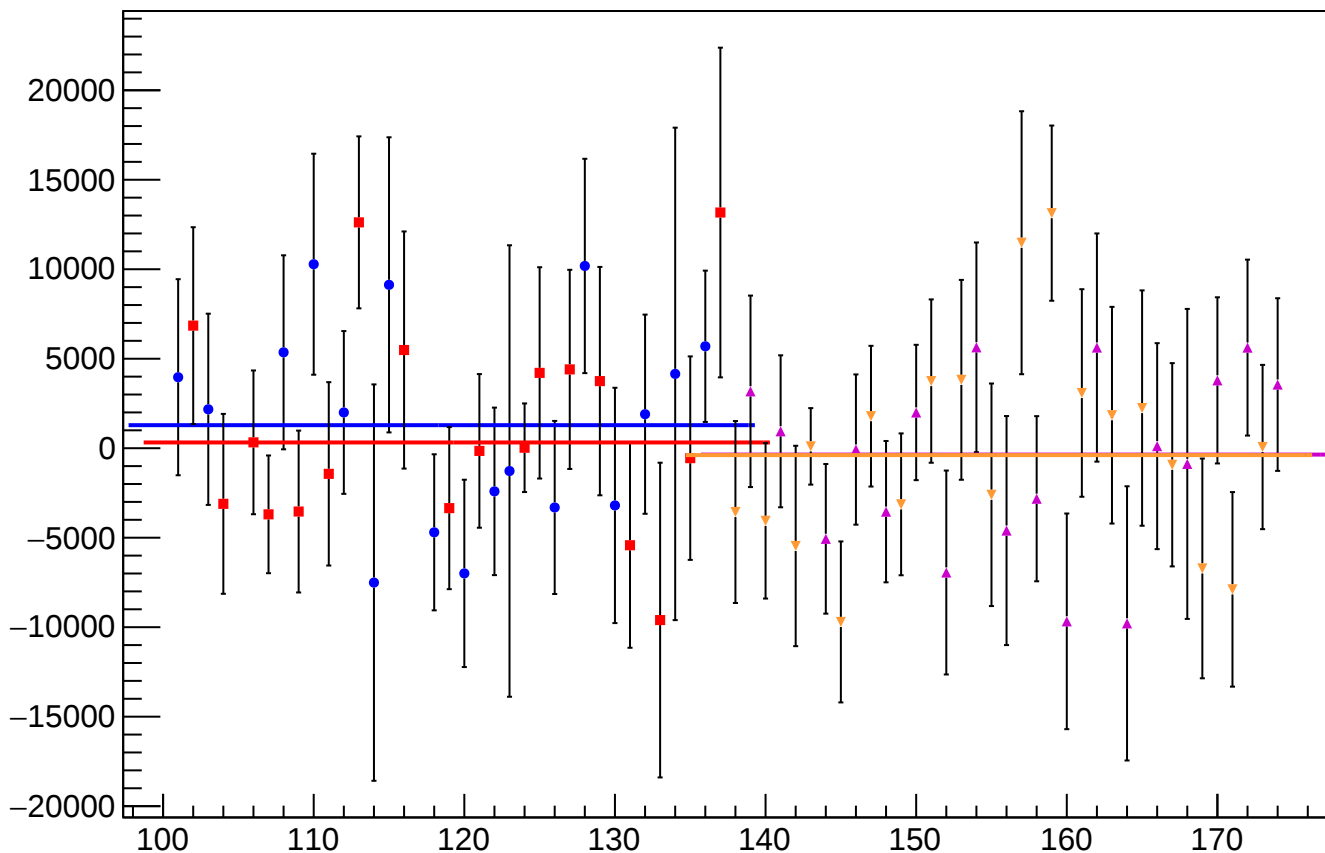
Right: 1334.706 $\pm$ 0.261  $\chi^2$ /NDF: 791010.5/34

In: 1332.201 $\pm$ 0.208  $\chi^2$ /NDF: 546931.4/34

Out: 1353.077 $\pm$ 0.210  $\chi^2$ /NDF: 566535.2/36

All: 1342.567 $\pm$ 0.148  $\chi^2$ /NDF: 1118458.9/71

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: -385.336+/-1050.859  $\chi^2/\text{NDF}$ :22.5/18

Right Out: 321.508+/-1105.580  $\chi^2/\text{NDF}$ : 17.6/17

Left In: -356.583+/-1183.964  $\chi^2/\text{NDF}$ :13.7/17

Left: -372.666+/-785.934  $\chi^2/\text{NDF}$ : 36.1/36

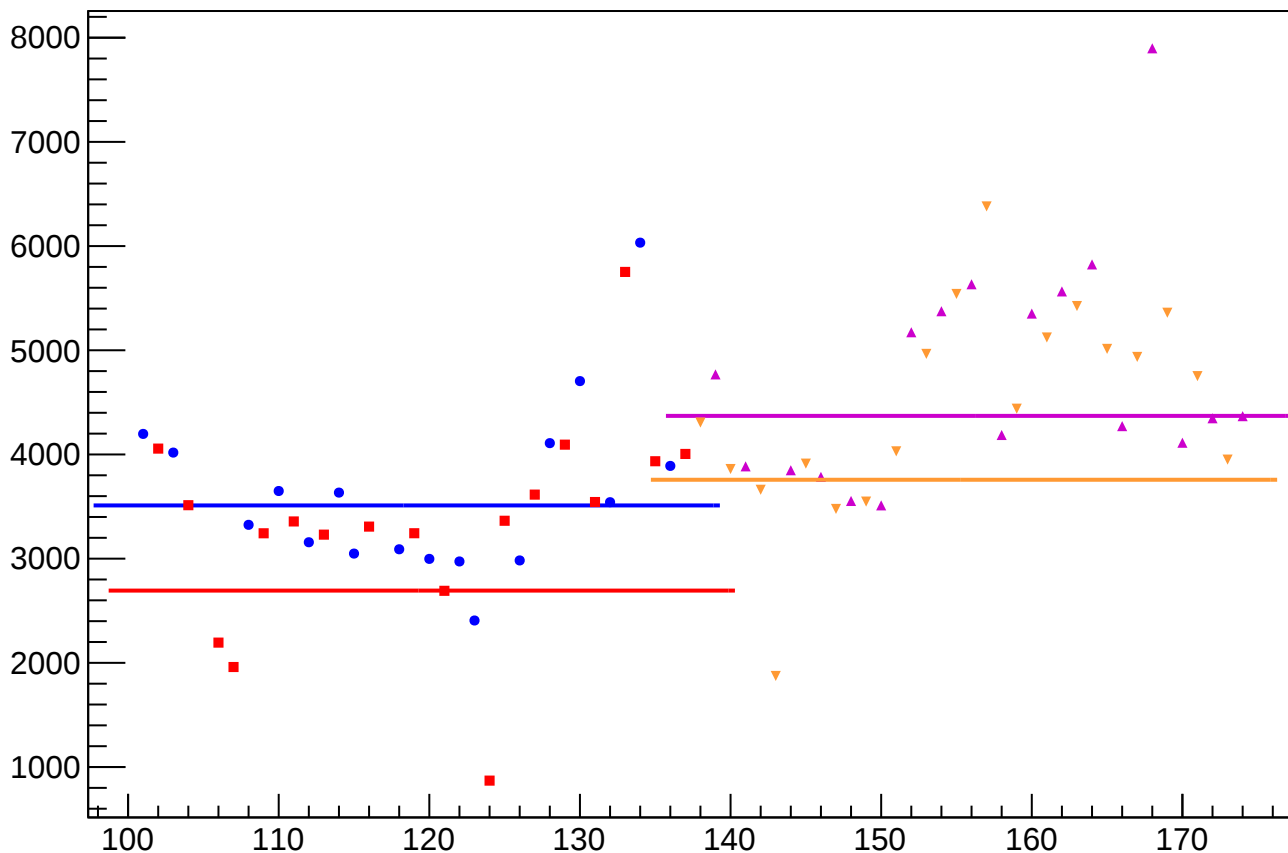
Right: 700.521+/-861.814  $\chi^2/\text{NDF}$ : 32.1/34

In: 342.901+/-897.428  $\chi^2/\text{NDF}$ :28.8/34

Out: -49.839+/-761.680  $\chi^2/\text{NDF}$ :40.2/36

All: 114.611+/-580.716  $\chi^2/\text{NDF}$ : 69.1/71

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: 3757.219 $\pm$ 0.743  $\chi^2$ /NDF: 2782711.2/18

Right Out: 2693.503 $\pm$ 0.782  $\chi^2$ /NDF: 2125842.2/17

Left In: 4370.319 $\pm$ 0.837  $\chi^2$ /NDF: 1009521.9/17

Left: 4027.382 $\pm$ 0.556  $\chi^2$ /NDF: 4092217.5/36

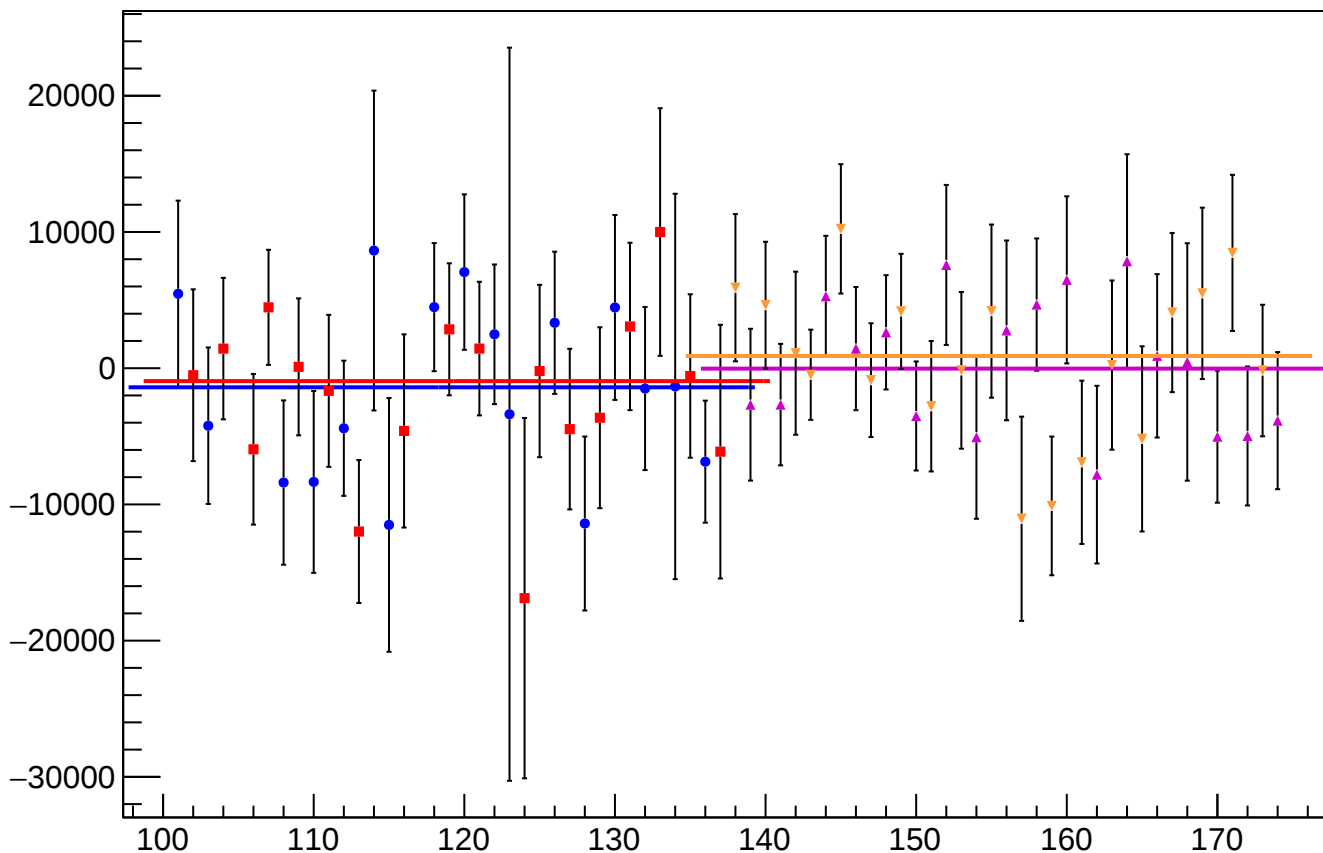
Right: 3014.176 $\pm$ 0.609  $\chi^2$ /NDF: 2898733.2/34

In: 4004.630 $\pm$ 0.635  $\chi^2$ /NDF: 1802033.8/34

Out: 3252.336 $\pm$ 0.539  $\chi^2$ /NDF: 5881206.9/36

All: 3567.340 $\pm$ 0.411  $\chi^2$ /NDF: 8500176.7/71

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



Right In:  $-1401.442 \pm 1504.149$   $\chi^2/\text{NDF}: 15.8/16$

Left Out:  $896.233 \pm 1182.090$   $\chi^2/\text{NDF}: 19.6/18$

Right Out:  $-947.960 \pm 1382.709$   $\chi^2/\text{NDF}: 12.5/17$

Left In:  $-30.333 \pm 1238.960$   $\chi^2/\text{NDF}: 12.9/17$

Left:  $454.702 \pm 855.262$   $\chi^2/\text{NDF}: 32.8/36$

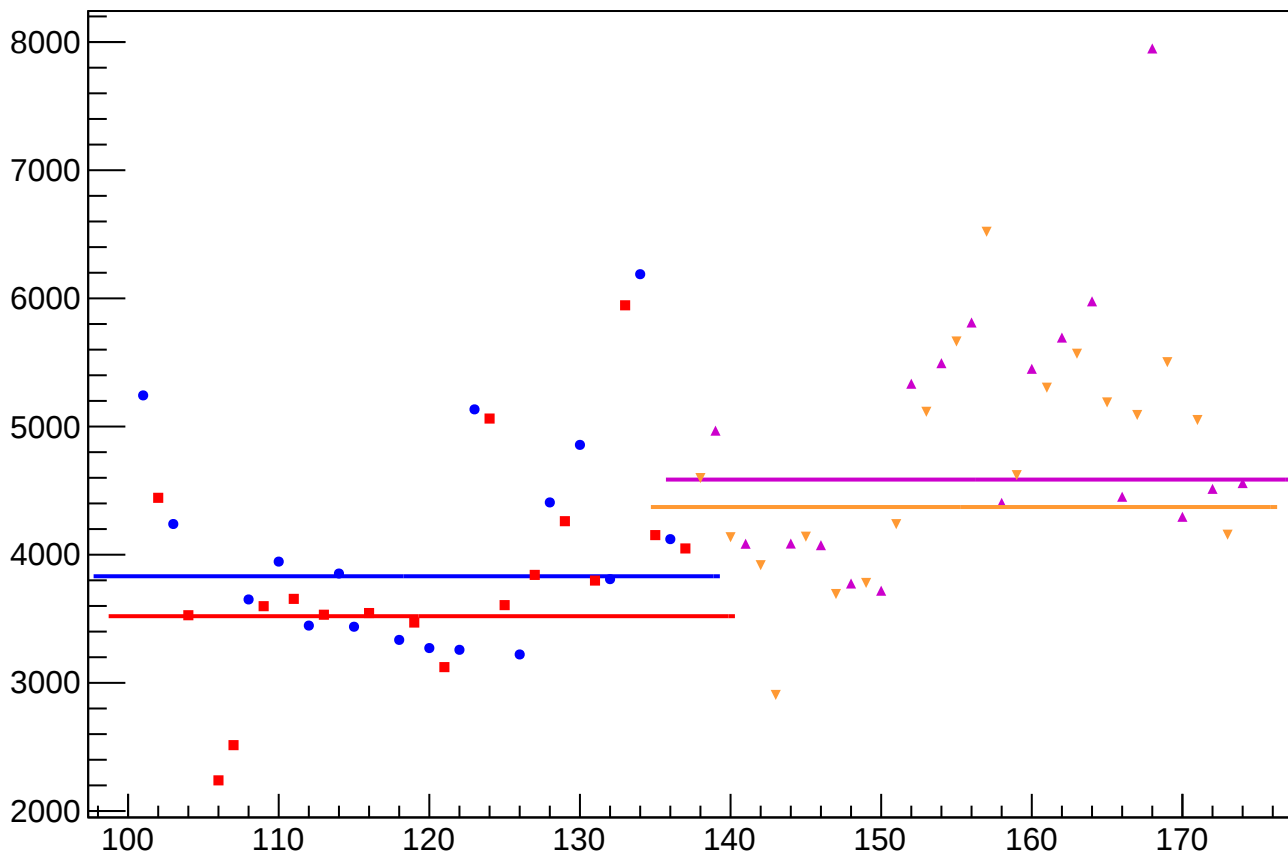
Right:  $-1155.658 \pm 1017.952$   $\chi^2/\text{NDF}: 28.3/34$

In:  $-584.563 \pm 956.313$   $\chi^2/\text{NDF}: 29.2/34$

Out:  $117.512 \pm 898.501$   $\chi^2/\text{NDF}: 33.1/36$

All:  $-211.664 \pm 654.821$   $\chi^2/\text{NDF}: 62.6/71$

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



Right In: 3831.818+/-1.064  $\chi^2/\text{NDF}$ : 337707.1/16

Left Out: 4372.004+/-0.836  $\chi^2/\text{NDF}$ : 1074016.4/18

Right Out: 3520.188+/-0.969  $\chi^2/\text{NDF}$ : 544143.8/17

Left In: 4586.138+/-0.876  $\chi^2/\text{NDF}$ : 870984.9/17

Left: 4474.044+/-0.605  $\chi^2/\text{NDF}$ : 1976275.5/36

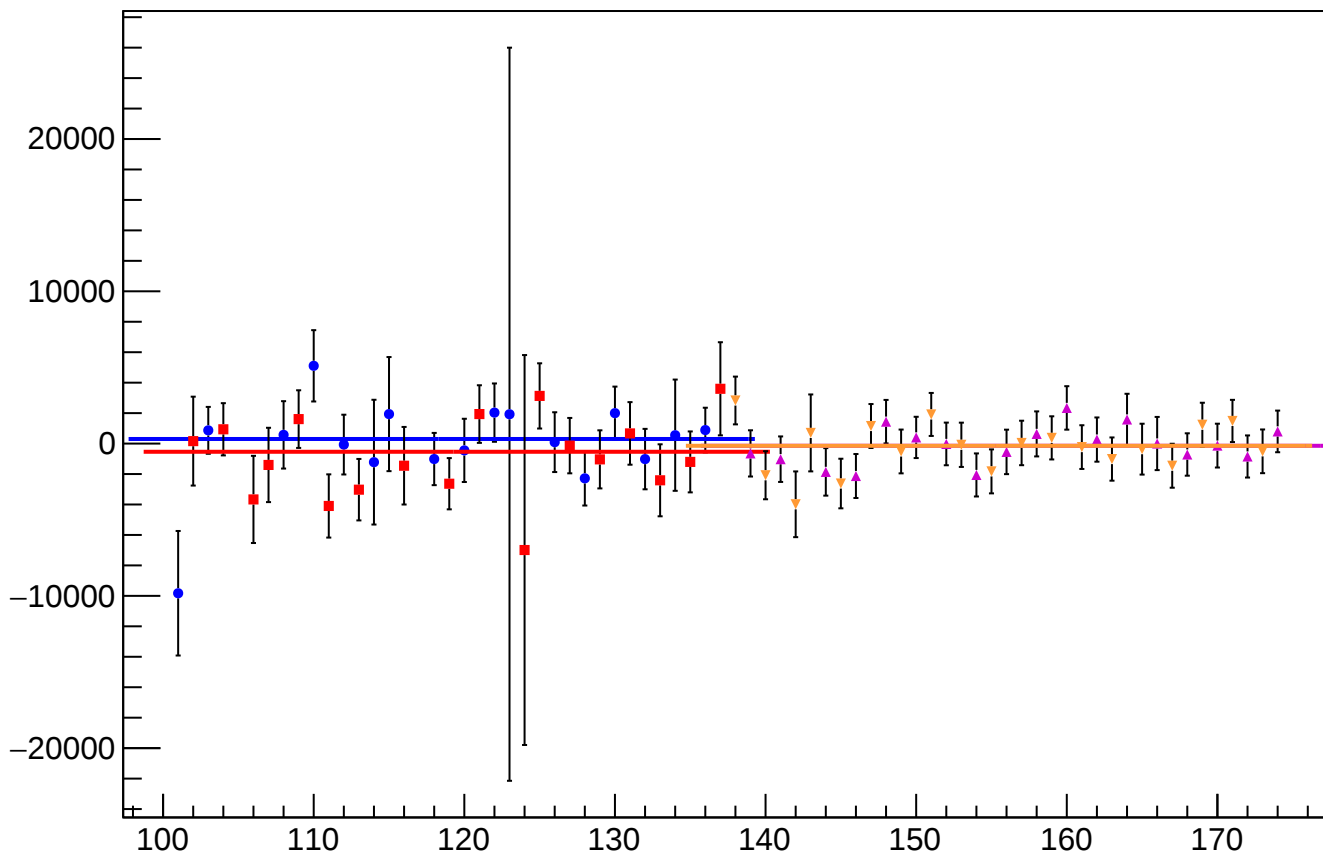
Right: 3661.502+/-0.716  $\chi^2/\text{NDF}$ : 928771.8/34

In: 4281.217+/-0.676  $\chi^2/\text{NDF}$ : 1508372.2/34

Out: 4008.499+/-0.633  $\chi^2/\text{NDF}$ : 2061344.2/36

All: 4135.838+/-0.462  $\chi^2/\text{NDF}$ : 3656423.5/71

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



Right In:  $301.968 \pm 512.834$   $\chi^2/\text{NDF}: 16.1/16$

Left Out:  $-144.752 \pm 348.232$   $\chi^2/\text{NDF}: 18.8/18$

Right Out:  $-537.727 \pm 508.684$   $\chi^2/\text{NDF}: 17.5/17$

Left In:  $-144.899 \pm 344.077$   $\chi^2/\text{NDF}: 12.2/17$

Left:  $-144.826 \pm 244.755$   $\chi^2/\text{NDF}: 31.0/36$

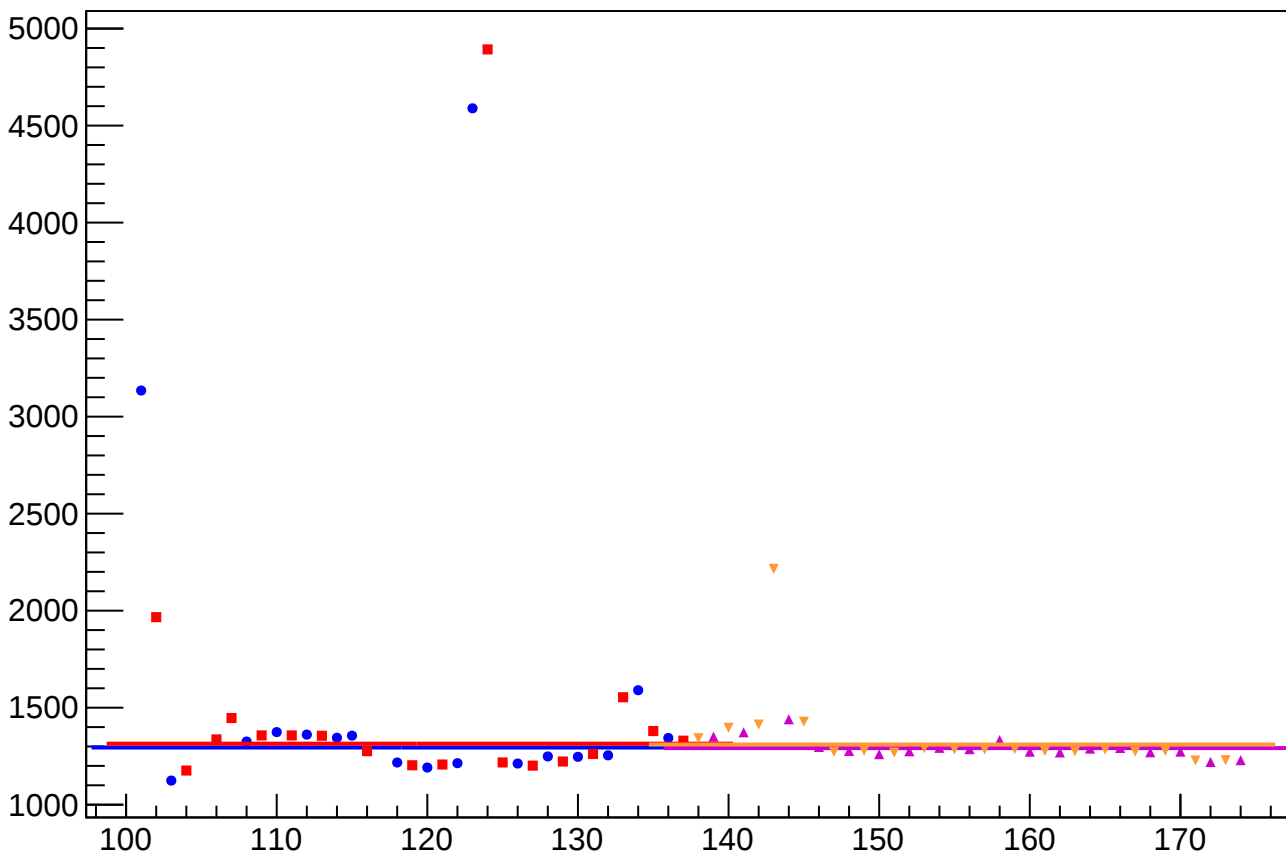
Right:  $-121.291 \pm 361.152$   $\chi^2/\text{NDF}: 34.9/34$

In:  $-6.184 \pm 285.725$   $\chi^2/\text{NDF}: 28.8/34$

Out:  $-270.150 \pm 287.350$   $\chi^2/\text{NDF}: 36.7/36$

All:  $-137.419 \pm 202.610$   $\chi^2/\text{NDF}: 65.9/71$

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



Right In: 1294.729 $\pm$ 0.363  $\chi^2$ /NDF: 507803.9/16

Left Out: 1310.045 $\pm$ 0.246  $\chi^2$ /NDF:303256.4/18

Right Out: 1314.588 $\pm$ 0.360  $\chi^2$ /NDF: 333838.6/17

Left In: 1291.695 $\pm$ 0.243  $\chi^2$ /NDF:41393.8/17

Left: 1300.760 $\pm$ 0.173  $\chi^2$ /NDF: 347460.2/36

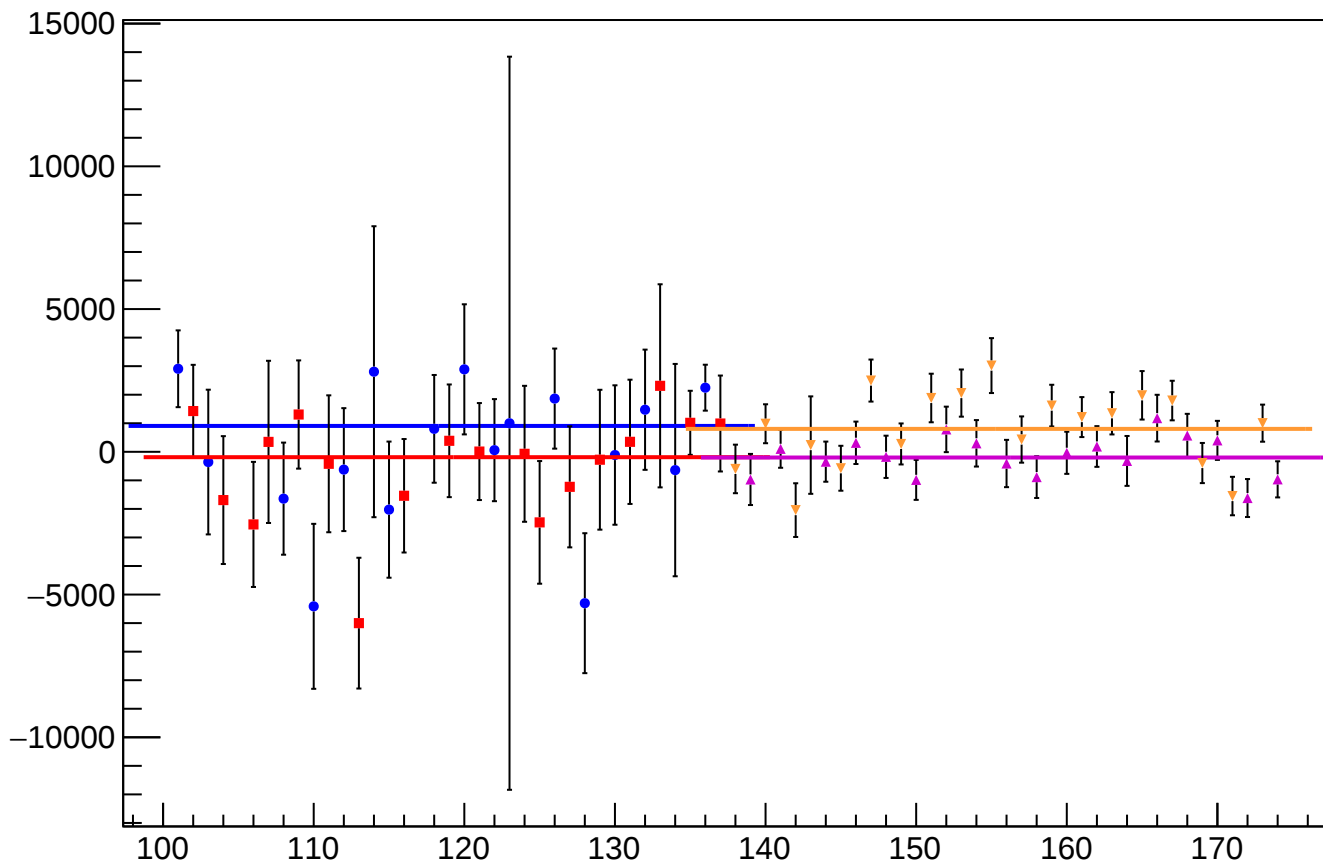
Right: 1304.740 $\pm$ 0.255  $\chi^2$ /NDF: 843154.3/34

In: 1292.637 $\pm$ 0.202  $\chi^2$ /NDF:549246.0/34

Out: 1311.494 $\pm$ 0.203  $\chi^2$ /NDF:637203.7/36

All: 1302.012 $\pm$ 0.143  $\chi^2$ /NDF: 1190780.9/71

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: 803.384 $\pm$ 177.725  $\chi^2$ /NDF:51.7/18

Right Out: -188.170 $\pm$ 464.537  $\chi^2$ /NDF: 13.8/17

Left In: -199.704 $\pm$ 174.402  $\chi^2$ /NDF:16.6/17

Left: 292.375 $\pm$ 124.479  $\chi^2$ /NDF: 84.5/36

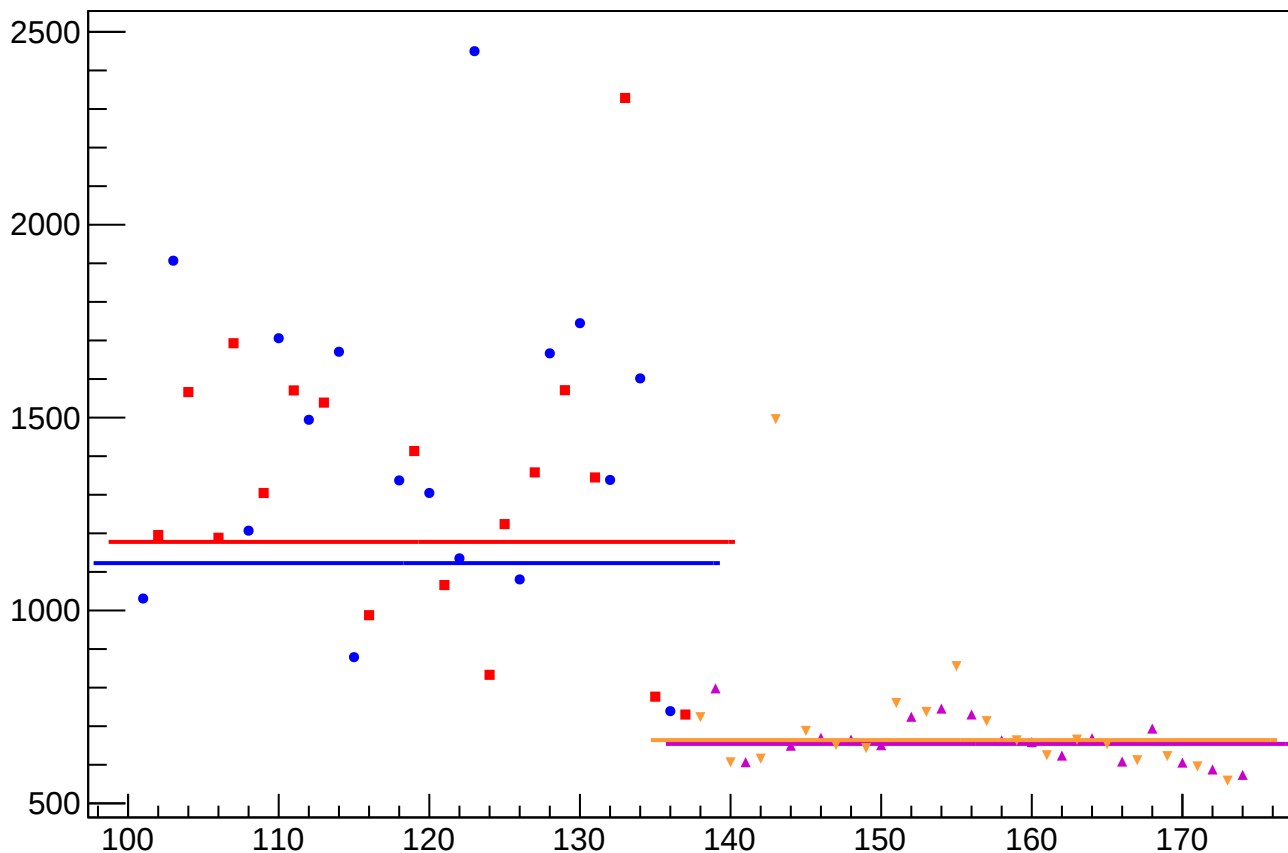
Right: 369.604 $\pm$ 325.359  $\chi^2$ /NDF: 38.7/34

In: -58.430 $\pm$ 162.888  $\chi^2$ /NDF:43.7/34

Out: 676.780 $\pm$ 165.992  $\chi^2$ /NDF:69.5/36

All: 302.236 $\pm$ 116.261  $\chi^2$ /NDF: 123.2/71

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: 663.989+/-0.126  $\chi^2/\text{NDF}$ : 734478.3/18

Right Out: 1177.797+/-0.328  $\chi^2/\text{NDF}$ : 1021710.1/17

Left In: 654.092+/-0.123  $\chi^2/\text{NDF}$ : 199583.2/17

Left: 658.947+/-0.088  $\chi^2/\text{NDF}$ : 937221.2/36

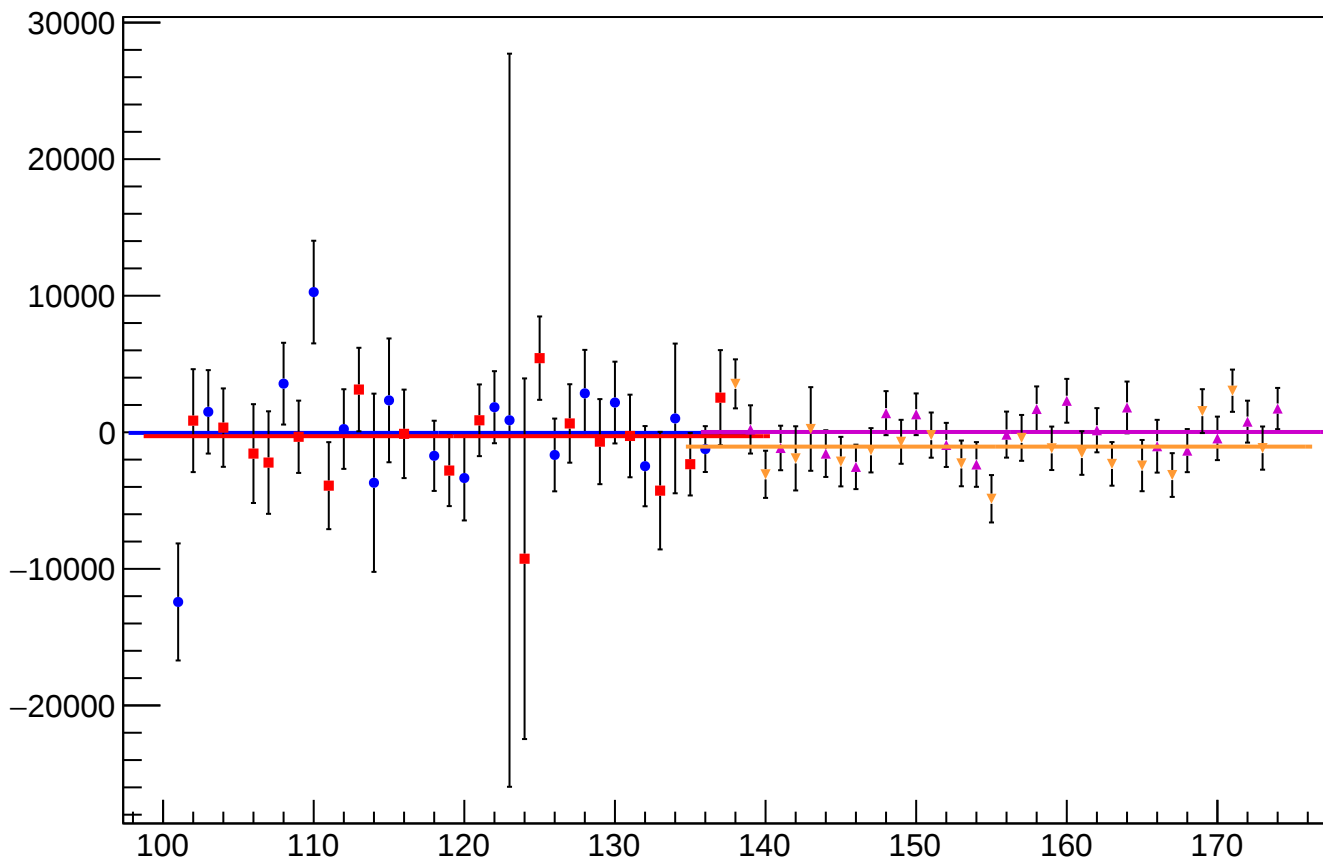
Right: 1149.765+/-0.230  $\chi^2/\text{NDF}$ : 2224002.1/34

In: 713.937+/-0.115  $\chi^2/\text{NDF}$ : 3231881.6/34

Out: 729.593+/-0.117  $\chi^2/\text{NDF}$ : 3890542.3/36

All: 721.618+/-0.082  $\chi^2/\text{NDF}$ : 7131488.2/71

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:  $-1049.402 \pm 393.064$   $\chi^2/\text{NDF}$ : 27.1/18

Right Out:  $-285.373 \pm 735.391$   $\chi^2/\text{NDF}$ : 10.6/17

Left In:  $22.727 \pm 386.869$   $\chi^2/\text{NDF}$ : 14.4/17

Left:  $-504.822 \pm 275.722$   $\chi^2/\text{NDF}$ : 45.2/36

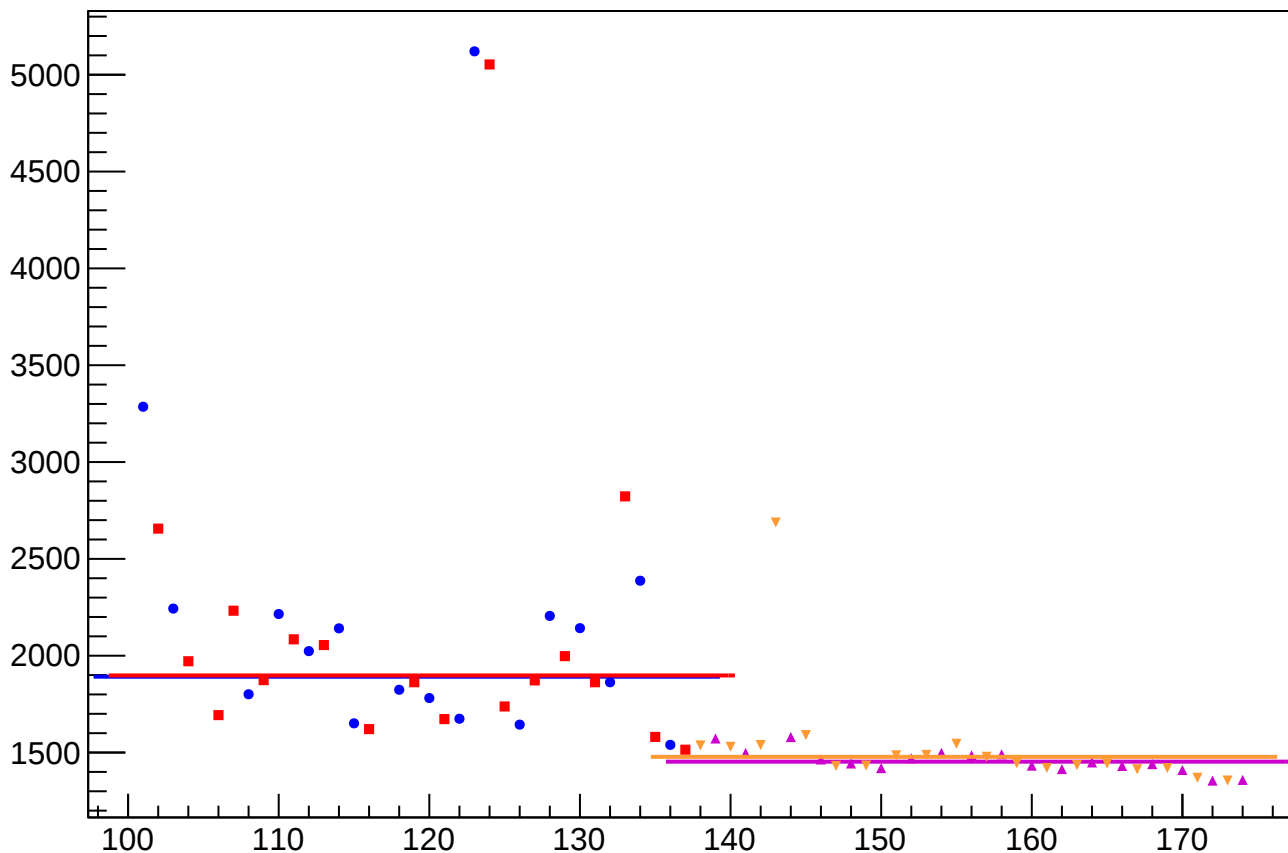
Right:  $-166.852 \pm 524.259$   $\chi^2/\text{NDF}$ : 33.9/34

In:  $8.555 \pm 343.589$   $\chi^2/\text{NDF}$ : 37.6/34

Out:  $-879.631 \pm 346.654$   $\chi^2/\text{NDF}$ : 38.5/36

All:  $-431.595 \pm 244.030$   $\chi^2/\text{NDF}$ : 79.4/71

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: 1477.770 $\pm$ 0.278  $\chi^2$ /NDF: 364670.4/18

Right Out: 1898.010 $\pm$ 0.520  $\chi^2$ /NDF: 423694.9/17

Left In: 1452.902 $\pm$ 0.274  $\chi^2$ /NDF: 45622.9/17

Left: 1465.139 $\pm$ 0.195  $\chi^2$ /NDF: 414359.6/36

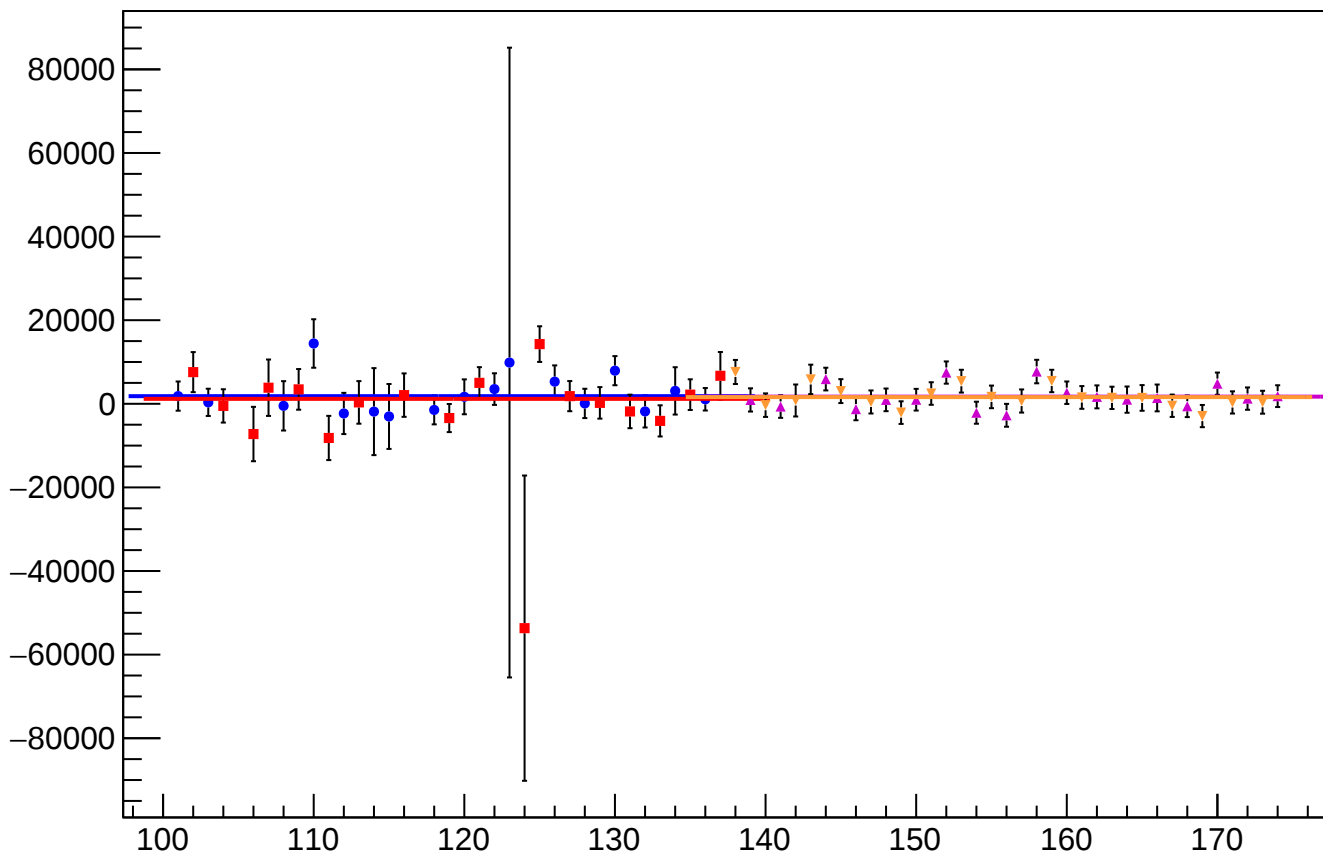
Right: 1894.891 $\pm$ 0.371  $\chi^2$ /NDF: 892856.4/34

In: 1545.583 $\pm$ 0.243  $\chi^2$ /NDF: 1058118.8/34

Out: 1571.152 $\pm$ 0.245  $\chi^2$ /NDF: 1296363.8/36

All: 1558.254 $\pm$ 0.173  $\chi^2$ /NDF: 2359971.2/71

# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1825.042 $\pm$ 1010.167  $\chi^2$ /NDF: 12.6/16

Left Out: 1602.018 $\pm$ 644.915  $\chi^2$ /NDF:16.8/18

Right Out: 1182.804 $\pm$ 1049.924  $\chi^2$ /NDF: 25.5/17

Left In: 1712.981 $\pm$ 642.658  $\chi^2$ /NDF:21.1/17

Left: 1657.694 $\pm$ 455.223  $\chi^2$ /NDF: 37.9/36

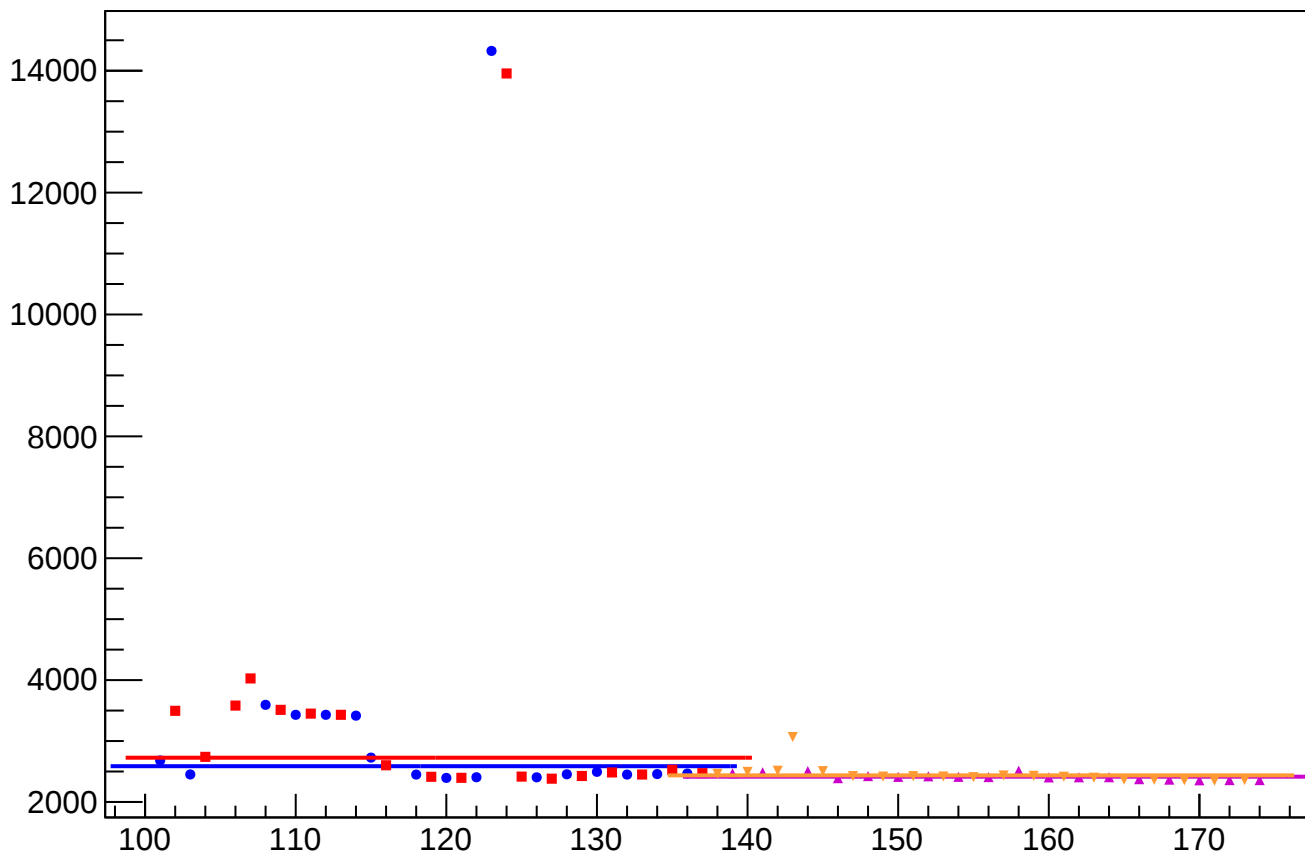
Right: 1516.312 $\pm$ 727.946  $\chi^2$ /NDF: 38.2/34

In: 1745.268 $\pm$ 542.228  $\chi^2$ /NDF:33.7/34

Out: 1487.177 $\pm$ 549.525  $\chi^2$ /NDF:42.4/36

All: 1617.948 $\pm$ 385.967  $\chi^2$ /NDF: 76.1/71

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2586.978+/-0.714  $\chi^2/\text{NDF}$ : 254112.7/16

Left Out: 2436.761+/-0.456  $\chi^2/\text{NDF}$ : 76041.1/18

Right Out: 2726.457+/-0.742  $\chi^2/\text{NDF}$ : 580850.1/17

Left In: 2414.877+/-0.454  $\chi^2/\text{NDF}$ : 11147.4/17

Left: 2425.781+/-0.322  $\chi^2/\text{NDF}$ : 88343.9/36

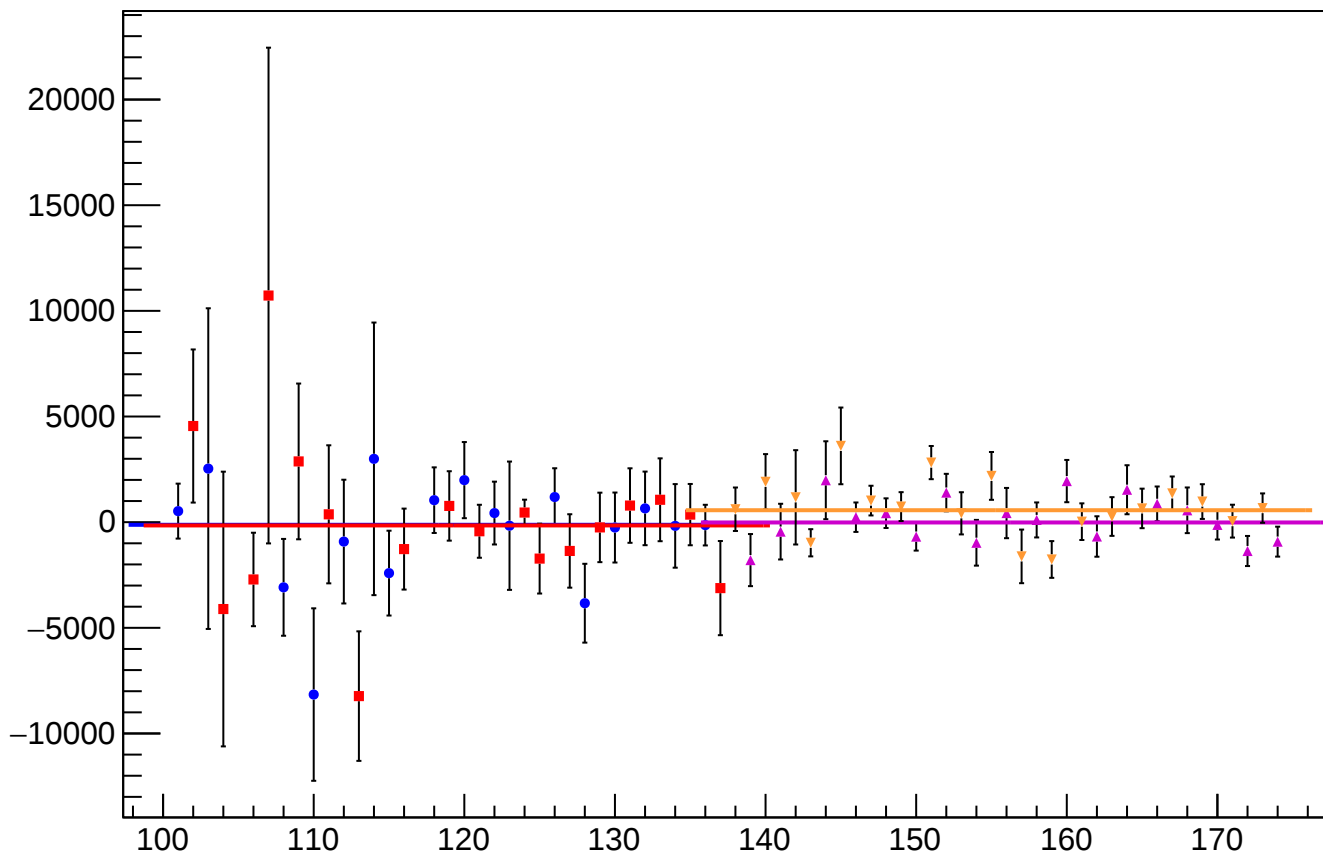
Right: 2654.027+/-0.515  $\chi^2/\text{NDF}$ : 853292.0/34

In: 2464.464+/-0.383  $\chi^2/\text{NDF}$ : 306585.2/34

Out: 2516.121+/-0.389  $\chi^2/\text{NDF}$ : 767443.7/36

All: 2489.947+/-0.273  $\chi^2/\text{NDF}$ : 1082983.8/71

asym\_atl1\_correction\_mean vs Slug, Sign Corrected



Right In: -124.472 $\pm$ 430.760  $\chi^2$ /NDF: 14.7/16

Left Out: 565.610 $\pm$ 202.470  $\chi^2$ /NDF:32.8/18

Right Out: -154.579 $\pm$ 380.922  $\chi^2$ /NDF: 17.6/17

Left In: -14.153 $\pm$ 206.661  $\chi^2$ /NDF:21.2/17

Left: 281.666 $\pm$ 144.627  $\chi^2$ /NDF: 58.1/36

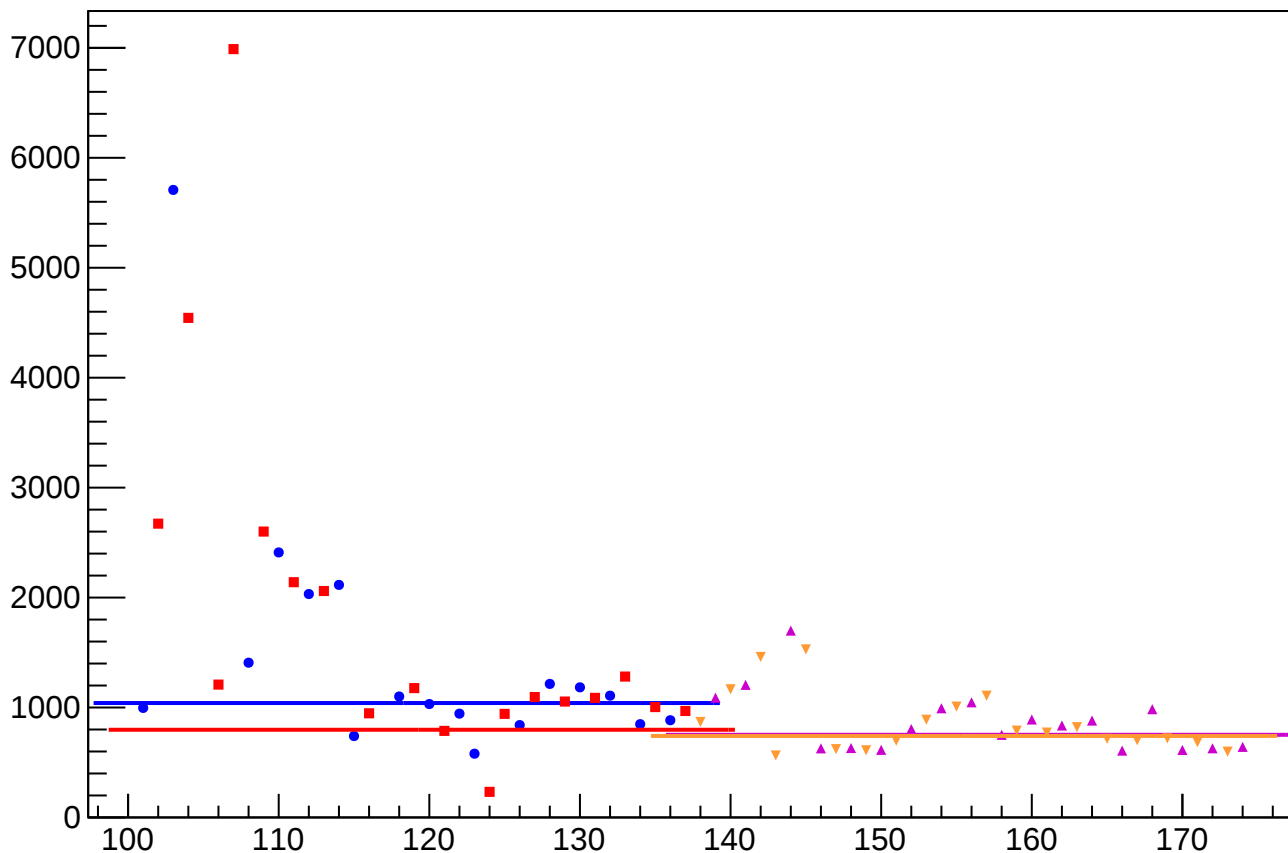
Right: -141.367 $\pm$ 285.354  $\chi^2$ /NDF: 32.3/34

In: -34.794 $\pm$ 186.327  $\chi^2$ /NDF:36.0/34

Out: 406.963 $\pm$ 178.784  $\chi^2$ /NDF:53.2/36

All: 195.207 $\pm$ 129.004  $\chi^2$ /NDF: 92.1/71

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



Right In: 1040.760+/-0.305  $\chi^2/\text{NDF}$ : 1573034.8/16

Left Out: 741.389+/-0.143  $\chi^2/\text{NDF}$ : 1561588.8/18

Right Out: 797.732+/-0.269  $\chi^2/\text{NDF}$ : 5174332.0/17

Left In: 751.771+/-0.146  $\chi^2/\text{NDF}$ : 1772806.6/17

Left: 746.474+/-0.102  $\chi^2/\text{NDF}$ : 3336970.4/36

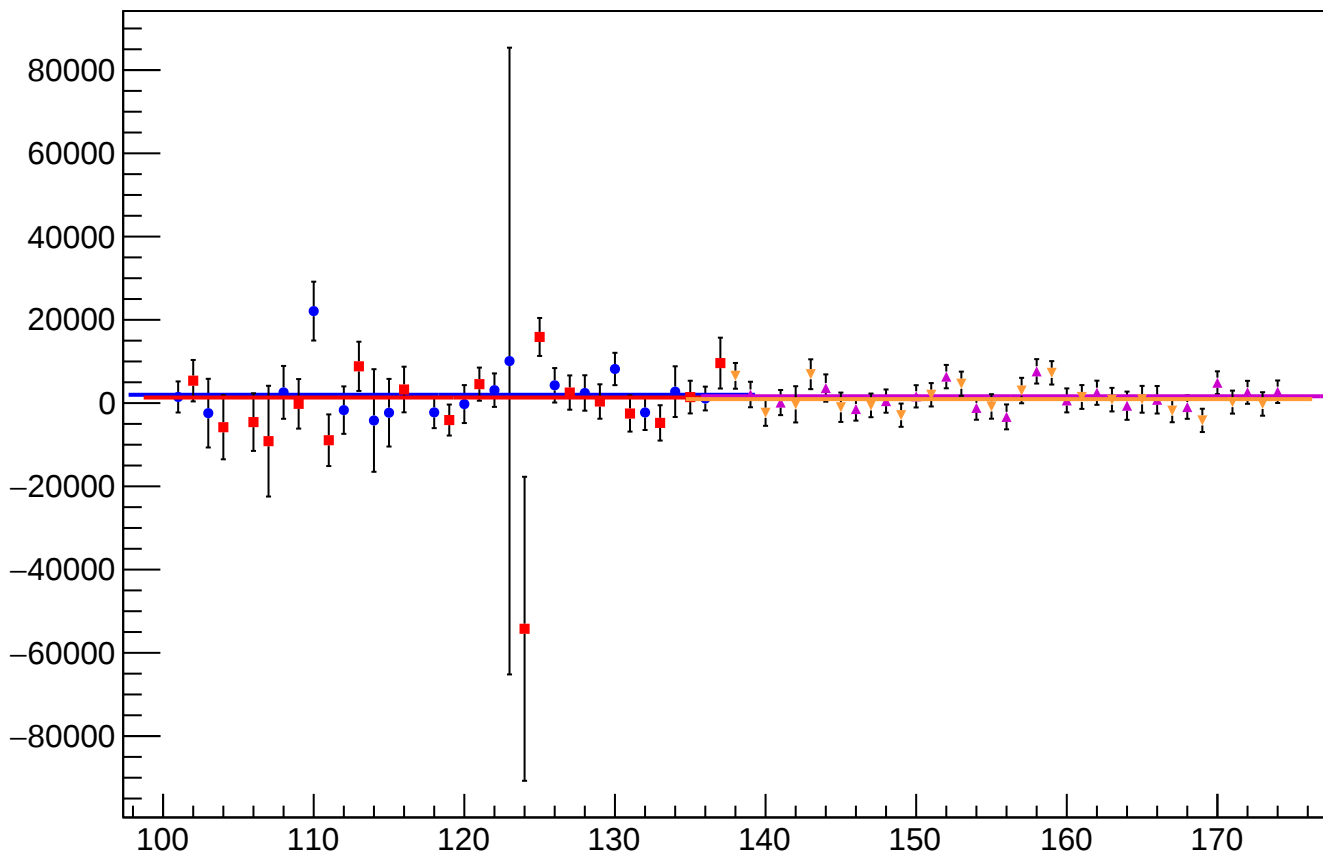
Right: 904.380+/-0.202  $\chi^2/\text{NDF}$ : 7104613.1/34

In: 805.841+/-0.132  $\chi^2/\text{NDF}$ : 4077583.8/34

Out: 753.801+/-0.126  $\chi^2/\text{NDF}$ : 6770037.0/36

All: 778.746+/-0.091  $\chi^2/\text{NDF}$ : 10928849.3/71

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1996.263+/-1155.054  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 948.246+/-686.742  $\chi^2/\text{NDF}$ : 21.9/18

Right Out: 1336.627+/-1193.730  $\chi^2/\text{NDF}$ : 27.5/17

Left In: 1639.892+/-685.555  $\chi^2/\text{NDF}$ : 16.0/17

Left: 1294.667+/-485.180  $\chi^2/\text{NDF}$ : 38.4/36

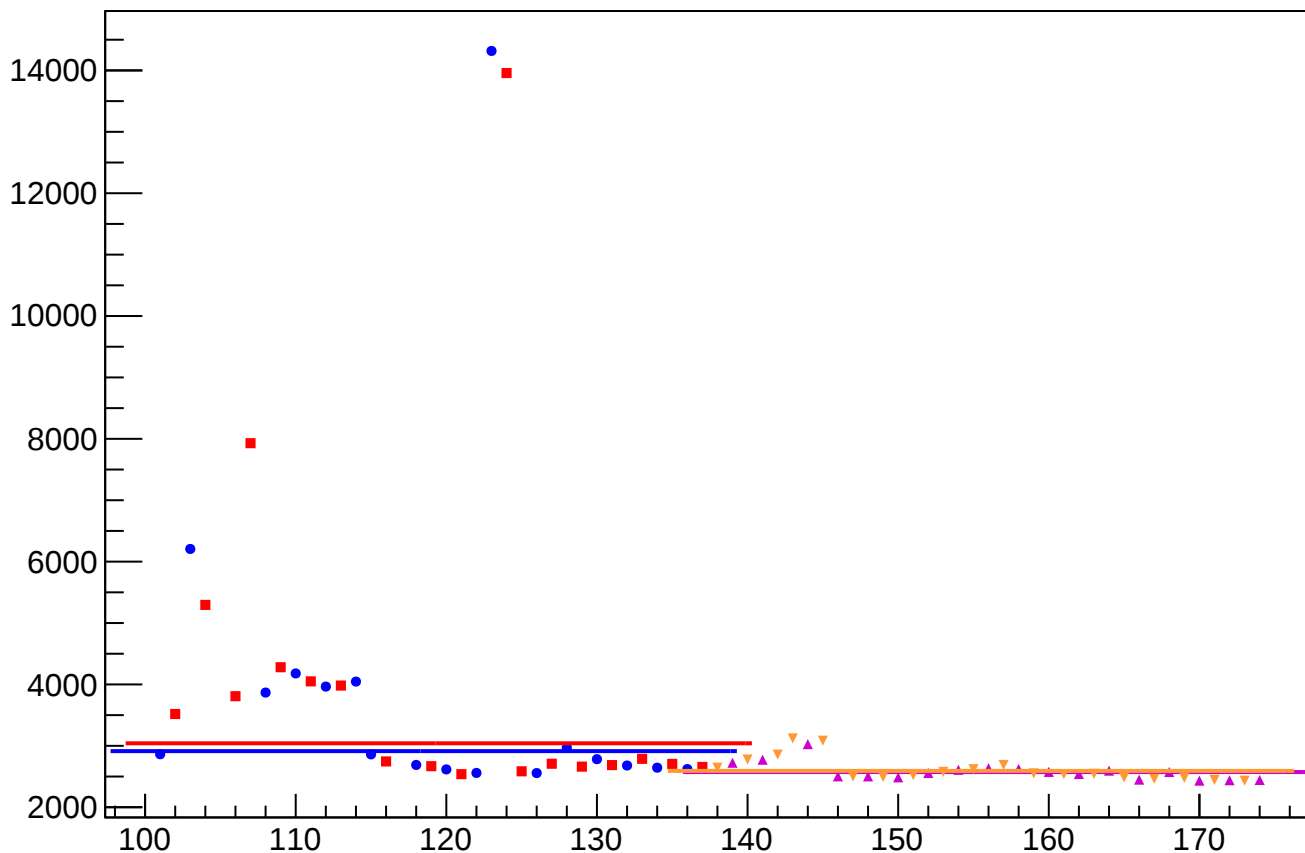
Right: 1677.304+/-830.083  $\chi^2/\text{NDF}$ : 42.6/34

In: 1732.728+/-589.536  $\chi^2/\text{NDF}$ : 31.0/34

Out: 1044.822+/-595.266  $\chi^2/\text{NDF}$ : 49.5/36

All: 1392.102+/-418.876  $\chi^2/\text{NDF}$ : 81.1/71

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2913.875+/-0.817  $\chi^2/\text{NDF}$ : 638984.6/16

Left Out: 2592.028+/-0.486  $\chi^2/\text{NDF}$ :128896.2/18

Right Out: 3041.227+/-0.844  $\chi^2/\text{NDF}$ : 1003583.4/17

Left In: 2572.877+/-0.485  $\chi^2/\text{NDF}$ :76211.1/17

Left: 2582.436+/-0.343  $\chi^2/\text{NDF}$ : 205886.3/36

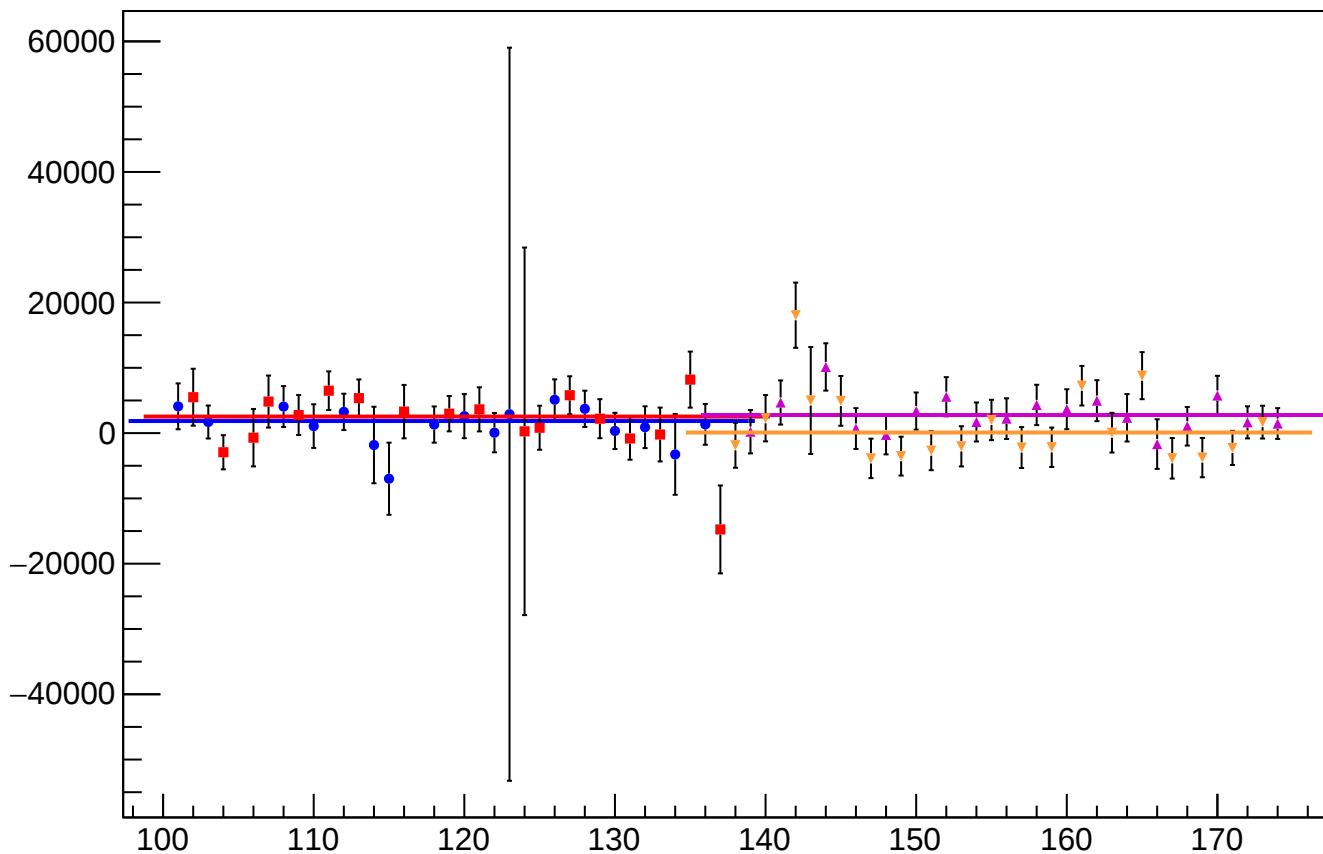
Right: 2975.455+/-0.587  $\chi^2/\text{NDF}$ : 1654324.2/34

In: 2661.709+/-0.417  $\chi^2/\text{NDF}$ :844099.4/34

Out: 2703.727+/-0.421  $\chi^2/\text{NDF}$ :1345259.5/36

All: 2682.515+/-0.296  $\chi^2/\text{NDF}$ : 2194389.9/71

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In:  $1850.093 \pm 806.760$   $\chi^2/\text{NDF}$ : 7.3/16

Left Out:  $92.458 \pm 733.911$   $\chi^2/\text{NDF}$ : 37.5/18

Right Out:  $2535.163 \pm 819.322$   $\chi^2/\text{NDF}$ : 20.0/17

Left In:  $2770.684 \pm 716.897$   $\chi^2/\text{NDF}$ : 11.6/17

Left:  $1462.975 \pm 512.832$   $\chi^2/\text{NDF}$ : 56.0/36

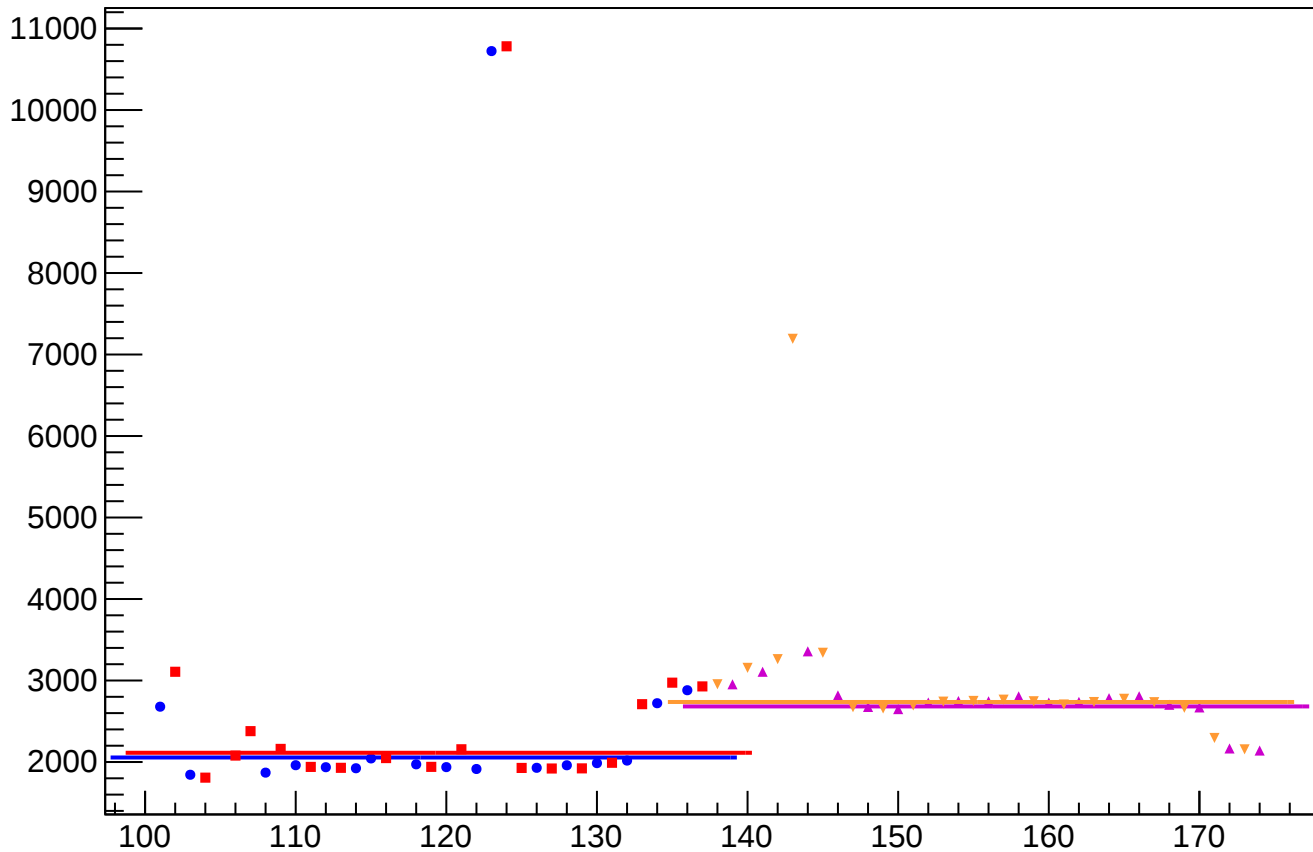
Right:  $2187.336 \pm 574.855$   $\chi^2/\text{NDF}$ : 27.6/34

In:  $2364.495 \pm 535.889$   $\chi^2/\text{NDF}$ : 19.6/34

Out:  $1179.893 \pm 546.664$   $\chi^2/\text{NDF}$ : 62.5/36

All:  $1783.984 \pm 382.684$   $\chi^2/\text{NDF}$ : 84.5/71

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In:  $2055.447 \pm 0.570$   $\chi^2/\text{NDF}$ : 316383.7/16

Left Out:  $2736.578 \pm 0.519$   $\chi^2/\text{NDF}$ : 869539.4/18

Right Out:  $2113.304 \pm 0.578$   $\chi^2/\text{NDF}$ : 532006.4/17

Left In:  $2681.968 \pm 0.507$   $\chi^2/\text{NDF}$ : 322577.0/17

Left:  $2708.633 \pm 0.363$   $\chi^2/\text{NDF}$ : 1197783.1/36

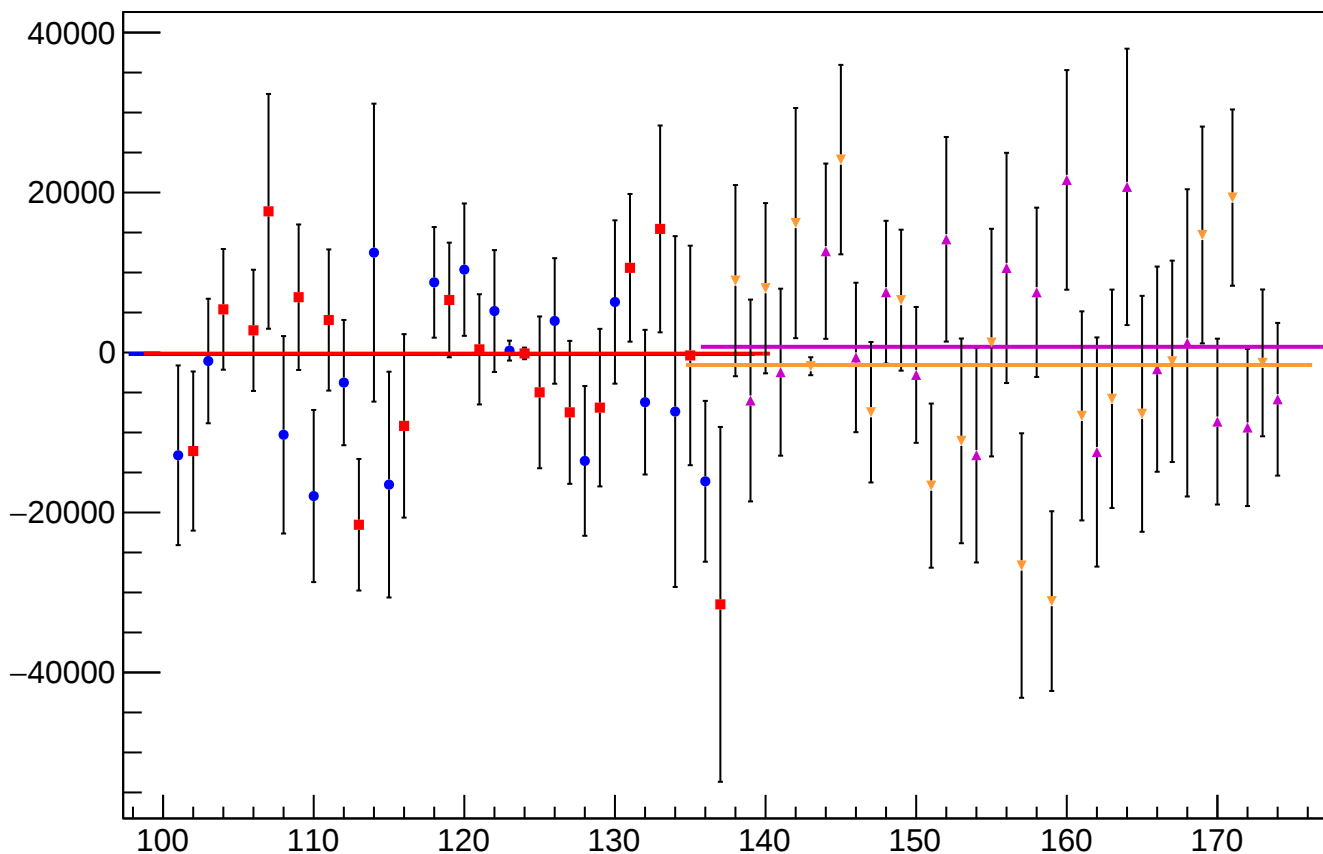
Right:  $2083.972 \pm 0.406$   $\chi^2/\text{NDF}$ : 853461.4/34

In:  $2405.531 \pm 0.379$   $\chi^2/\text{NDF}$ : 1312945.3/34

Out:  $2458.648 \pm 0.386$   $\chi^2/\text{NDF}$ : 2044762.8/36

All:  $2431.579 \pm 0.271$   $\chi^2/\text{NDF}$ : 3367344.2/71

asym\_atl2\_correction\_mean vs Slug, Sign Corrected



Right In:  $-185.246 \pm 1100.780$   $\chi^2/\text{NDF}: 16.4/16$

Left Out:  $-1560.771 \pm 1038.390$   $\chi^2/\text{NDF}: 26.6/18$

Right Out:  $-141.935 \pm 690.979$   $\chi^2/\text{NDF}: 19.0/17$

Left In:  $712.518 \pm 2671.952$   $\chi^2/\text{NDF}: 12.2/17$

Left:  $-1262.486 \pm 967.870$   $\chi^2/\text{NDF}: 39.5/36$

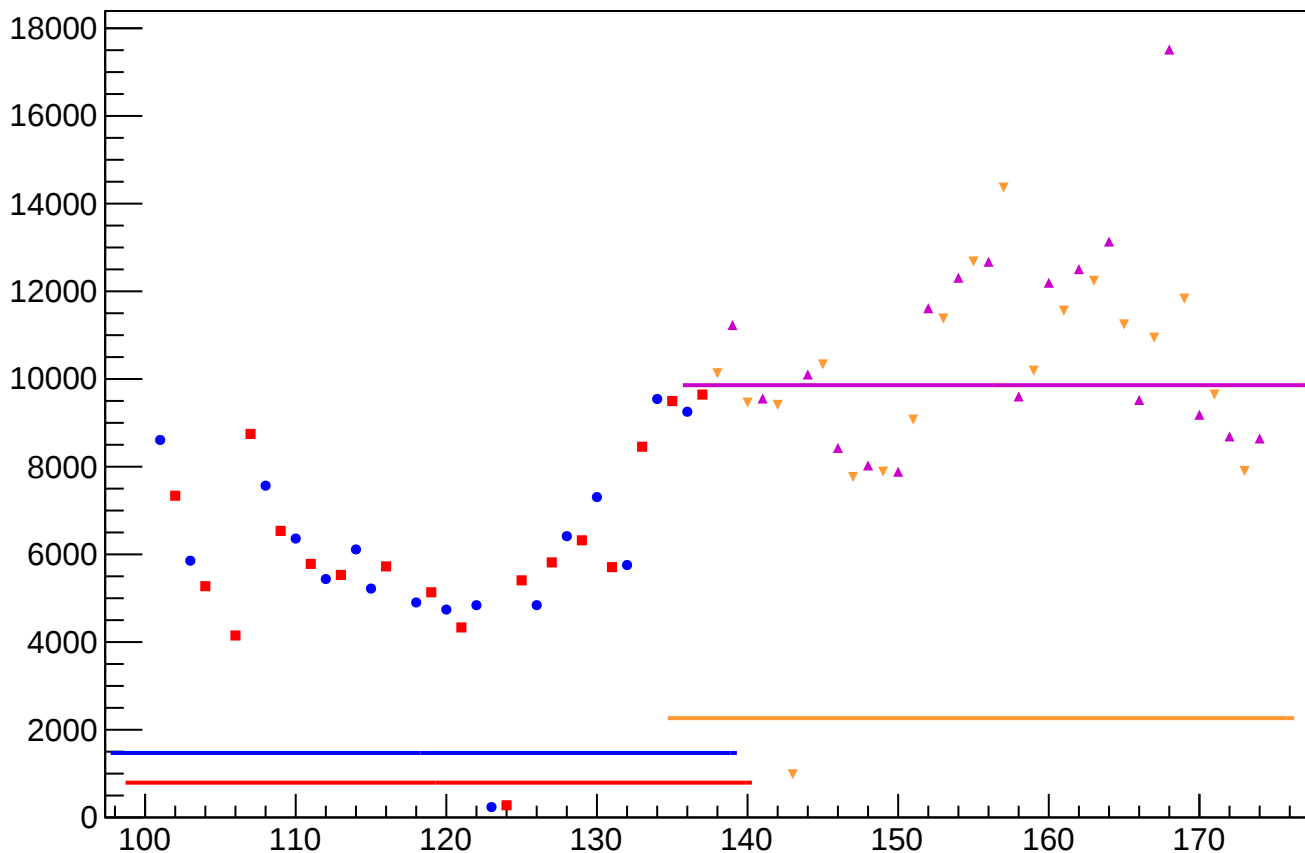
Right:  $-154.177 \pm 585.233$   $\chi^2/\text{NDF}: 35.3/34$

In:  $-54.982 \pm 1017.791$   $\chi^2/\text{NDF}: 28.7/34$

Out:  $-577.381 \pm 575.257$   $\chi^2/\text{NDF}: 46.9/36$

All:  $-450.904 \pm 500.801$   $\chi^2/\text{NDF}: 75.8/71$

asym\_atl2\_correction\_rms vs Slug, Sign Corrected



Right In: 1471.609+/-0.778  $\chi^2/\text{NDF}$ : 9788255.4/16

Left Out: 2265.005+/-0.734  $\chi^2/\text{NDF}$ : 18861255.0/18

Right Out: 793.659+/-0.489  $\chi^2/\text{NDF}$ : 11422584.5/17

Left In: 9859.536+/-1.889  $\chi^2/\text{NDF}$ : 1034189.2/17

Left: 3261.506+/-0.684  $\chi^2/\text{NDF}$ : 33932882.3/36

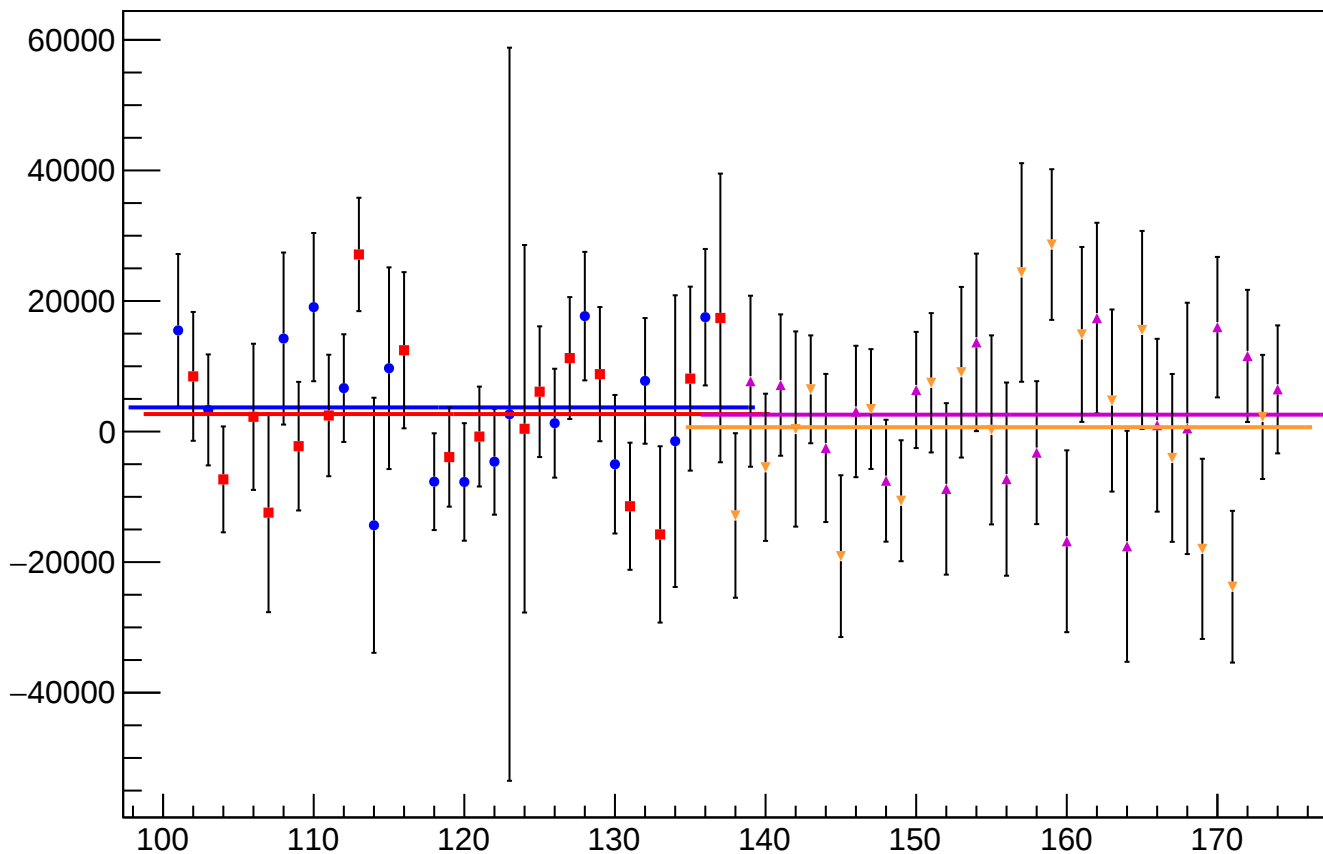
Right: 985.285+/-0.414  $\chi^2/\text{NDF}$ : 21755031.4/34

In: 2688.676+/-0.720  $\chi^2/\text{NDF}$ : 27672391.4/34

Out: 1245.221+/-0.407  $\chi^2/\text{NDF}$ : 33066962.2/36

All: 1594.696+/-0.354  $\chi^2/\text{NDF}$ : 63788127.7/71

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3698.440+/-2517.949  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 669.571+/-2685.972  $\chi^2/\text{NDF}$ : 23.3/18

Right Out: 2679.483+/-2428.648  $\chi^2/\text{NDF}$ : 18.5/17

Left In: 2585.681+/-2768.860  $\chi^2/\text{NDF}$ : 10.8/17

Left: 1598.516+/-1927.907  $\chi^2/\text{NDF}$ : 34.4/36

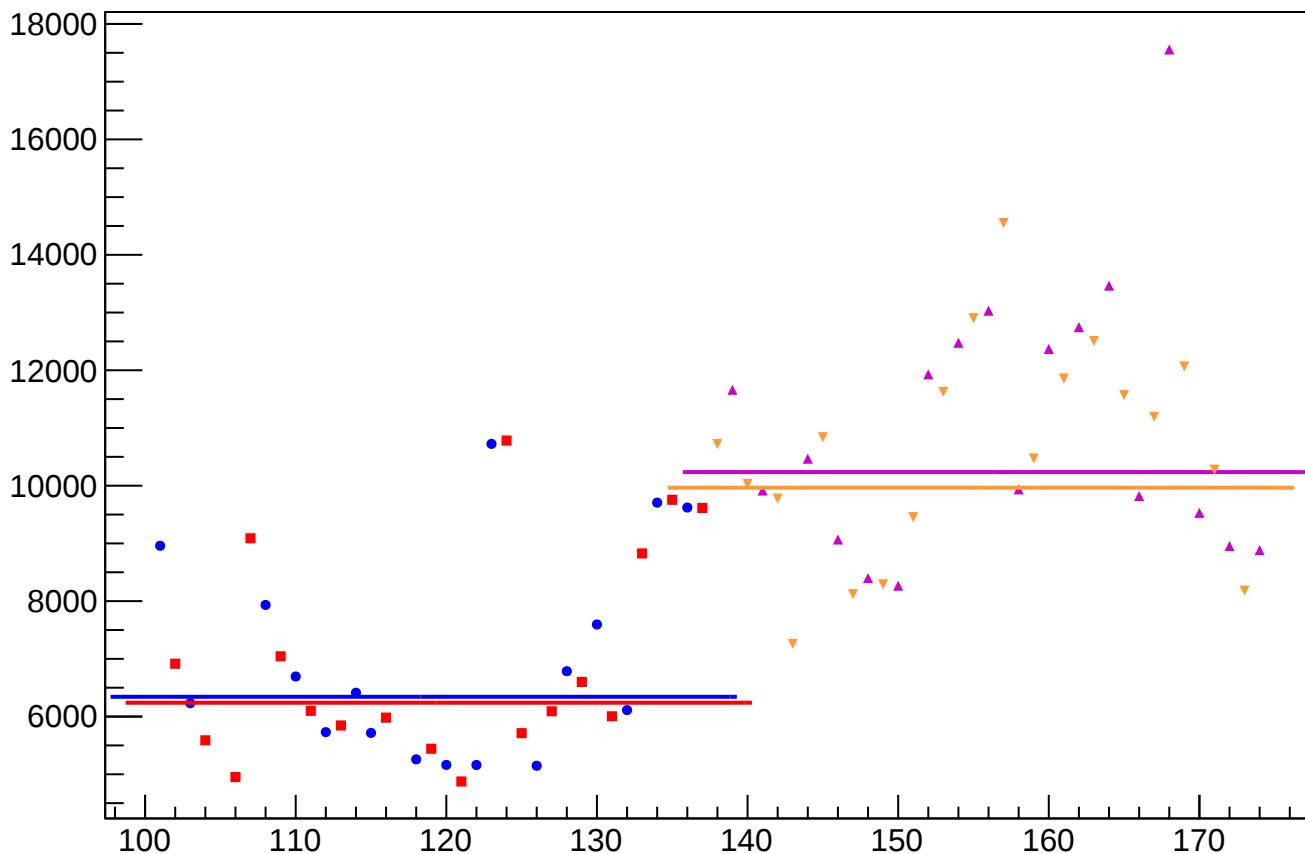
Right: 3170.572+/-1748.031  $\chi^2/\text{NDF}$ : 33.0/34

In: 3194.753+/-1862.862  $\chi^2/\text{NDF}$ : 25.3/34

Out: 1775.393+/-1801.436  $\chi^2/\text{NDF}$ : 42.2/36

All: 2461.286+/-1294.979  $\chi^2/\text{NDF}$ : 67.8/71

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6342.327+/-1.780  $\chi^2/\text{NDF}$ : 593668.9/16

Left Out: 9965.433+/-1.899  $\chi^2/\text{NDF}$ : 916221.9/18

Right Out: 6239.726+/-1.717  $\chi^2/\text{NDF}$ : 529243.7/17

Left In: 10235.774+/-1.958  $\chi^2/\text{NDF}$ : 931530.5/17

Left: 10096.496+/-1.363  $\chi^2/\text{NDF}$ : 1857575.0/36

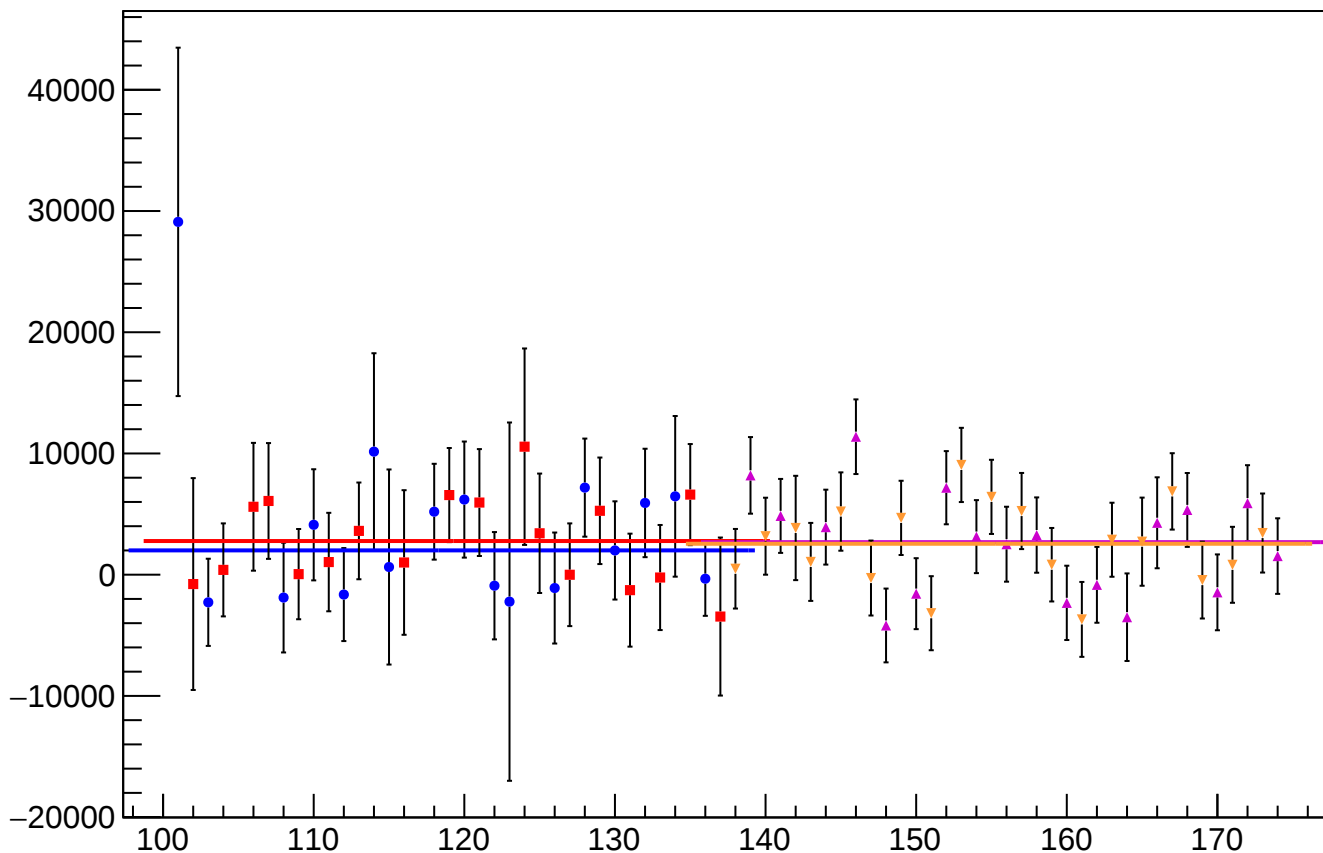
Right: 6289.173+/-1.236  $\chi^2/\text{NDF}$ : 1124633.0/34

In: 8104.674+/-1.317  $\chi^2/\text{NDF}$ : 3689741.3/34

Out: 7915.521+/-1.274  $\chi^2/\text{NDF}$ : 3562708.9/36

All: 8006.925+/-0.916  $\chi^2/\text{NDF}$ : 7263106.2/71

# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2004.589 $\pm$ 1125.432  $\chi^2$ /NDF: 13.7/16

Left Out: 2551.432 $\pm$ 732.349  $\chi^2$ /NDF:20.7/18

Right Out: 2776.042 $\pm$ 1086.812  $\chi^2$ /NDF: 8.3/17

Left In: 2683.349 $\pm$ 736.820  $\chi^2$ /NDF:31.9/17

Left: 2616.989 $\pm$ 519.423  $\chi^2$ /NDF: 52.6/36

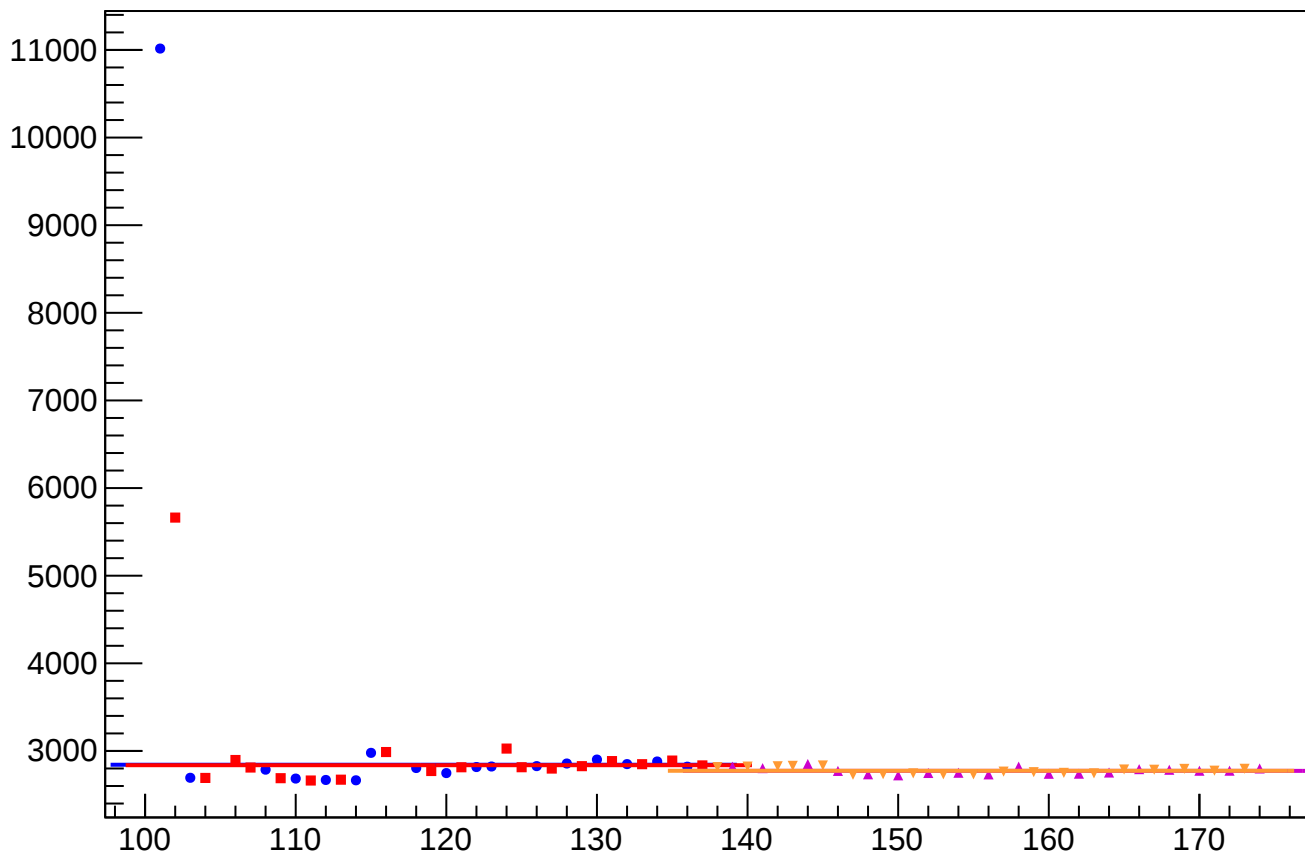
Right: 2403.779 $\pm$ 781.789  $\chi^2$ /NDF: 22.3/34

In: 2479.701 $\pm$ 616.455  $\chi^2$ /NDF:45.9/34

Out: 2621.573 $\pm$ 607.330  $\chi^2$ /NDF:29.0/36

All: 2551.695 $\pm$ 432.637  $\chi^2$ /NDF: 74.9/71

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2842.628+/-0.796  $\chi^2/\text{NDF}$ : 660305.1/16

Left Out: 2773.800+/-0.518  $\chi^2/\text{NDF}$ : 4664.5/18

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

Left In: 2772.637+/-0.521  $\chi^2/\text{NDF}$ : 4678.1/17

Left: 2773.222+/-0.367  $\chi^2/\text{NDF}$ : 9345.1/36

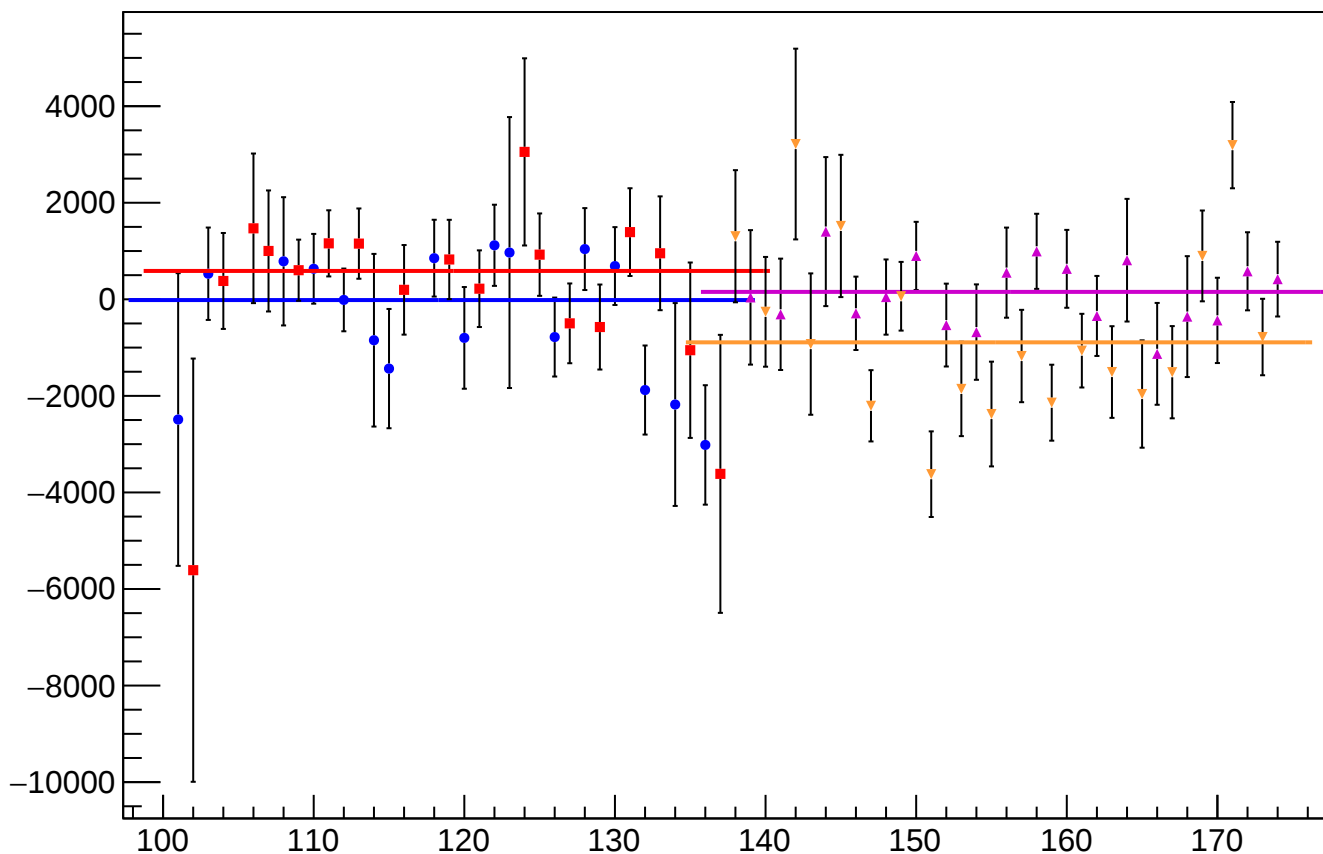
Right: 2839.943+/-0.553  $\chi^2/\text{NDF}$ : 886749.0/34

In: 2793.637+/-0.436  $\chi^2/\text{NDF}$ : 670397.6/34

Out: 2793.673+/-0.429  $\chi^2/\text{NDF}$ : 235802.5/36

All: 2793.655+/-0.306  $\chi^2/\text{NDF}$ : 906200.2/71

asym\_atr1\_correction\_mean vs Slug, Sign Corrected



Right In: -15.631 $\pm$ 238.862  $\chi^2/\text{NDF}$ : 21.6/16

Left Out: -891.261 $\pm$ 218.793  $\chi^2/\text{NDF}$ : 56.1/18

Right Out: 587.609 $\pm$ 225.811  $\chi^2/\text{NDF}$ : 13.3/17

Left In: 153.748 $\pm$ 213.742  $\chi^2/\text{NDF}$ : 8.5/17

Left: -356.555 $\pm$ 152.893  $\chi^2/\text{NDF}$ : 76.3/36

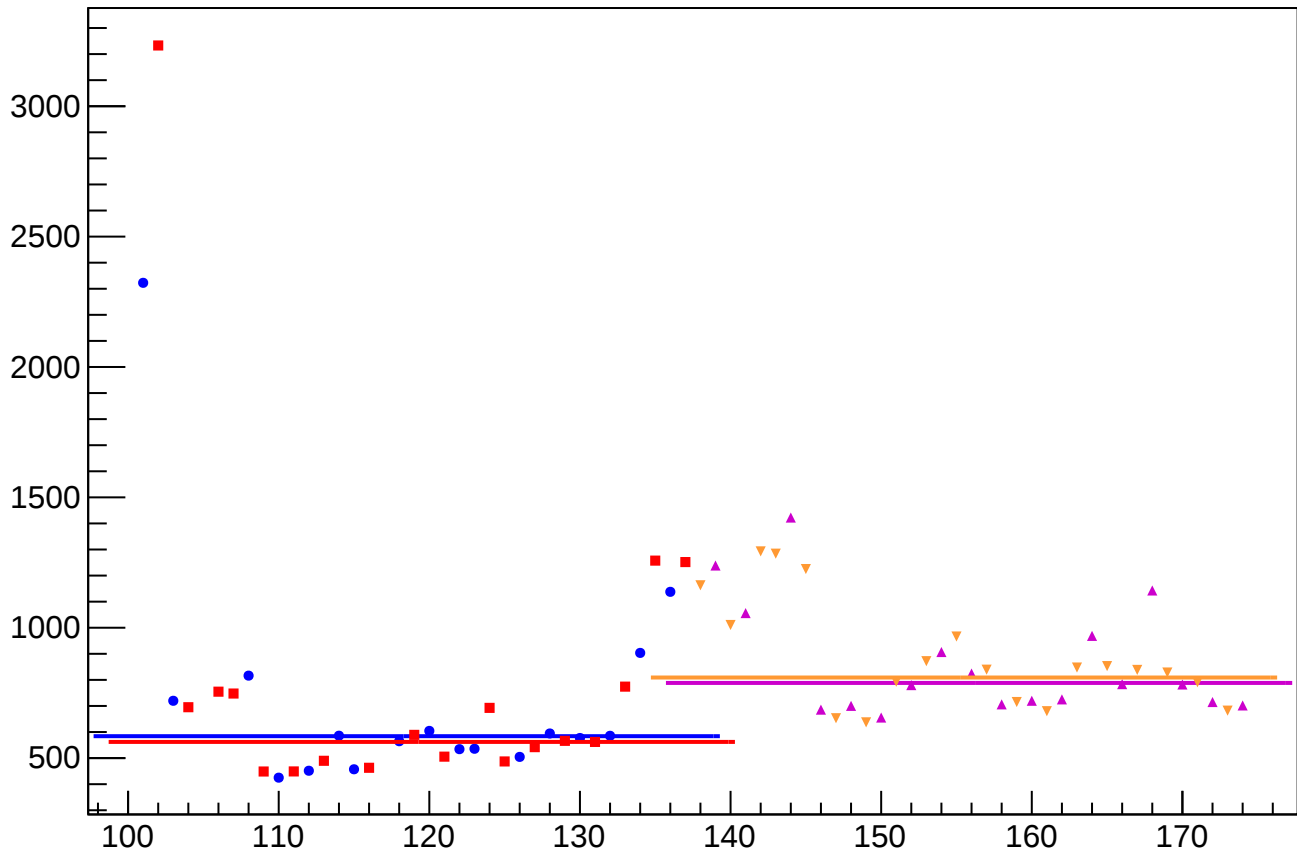
Right: 302.919 $\pm$ 164.093  $\chi^2/\text{NDF}$ : 38.3/34

In: 78.430 $\pm$ 159.282  $\chi^2/\text{NDF}$ : 30.3/34

Out: -175.164 $\pm$ 157.133  $\chi^2/\text{NDF}$ : 91.6/36

All: -50.089 $\pm$ 111.862  $\chi^2/\text{NDF}$ : 123.2/71

asym\_atr1\_correction\_rms vs Slug, Sign Corrected



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 809.060+/-0.155  $\chi^2/\text{NDF}$ : 1092661.7/18

Right Out: 562.122+/-0.160  $\chi^2/\text{NDF}$ : 1525298.9/17

Left In: 788.300+/-0.151  $\chi^2/\text{NDF}$ : 1109805.5/17

Left: 798.438+/-0.108  $\chi^2/\text{NDF}$ : 2211681.1/36

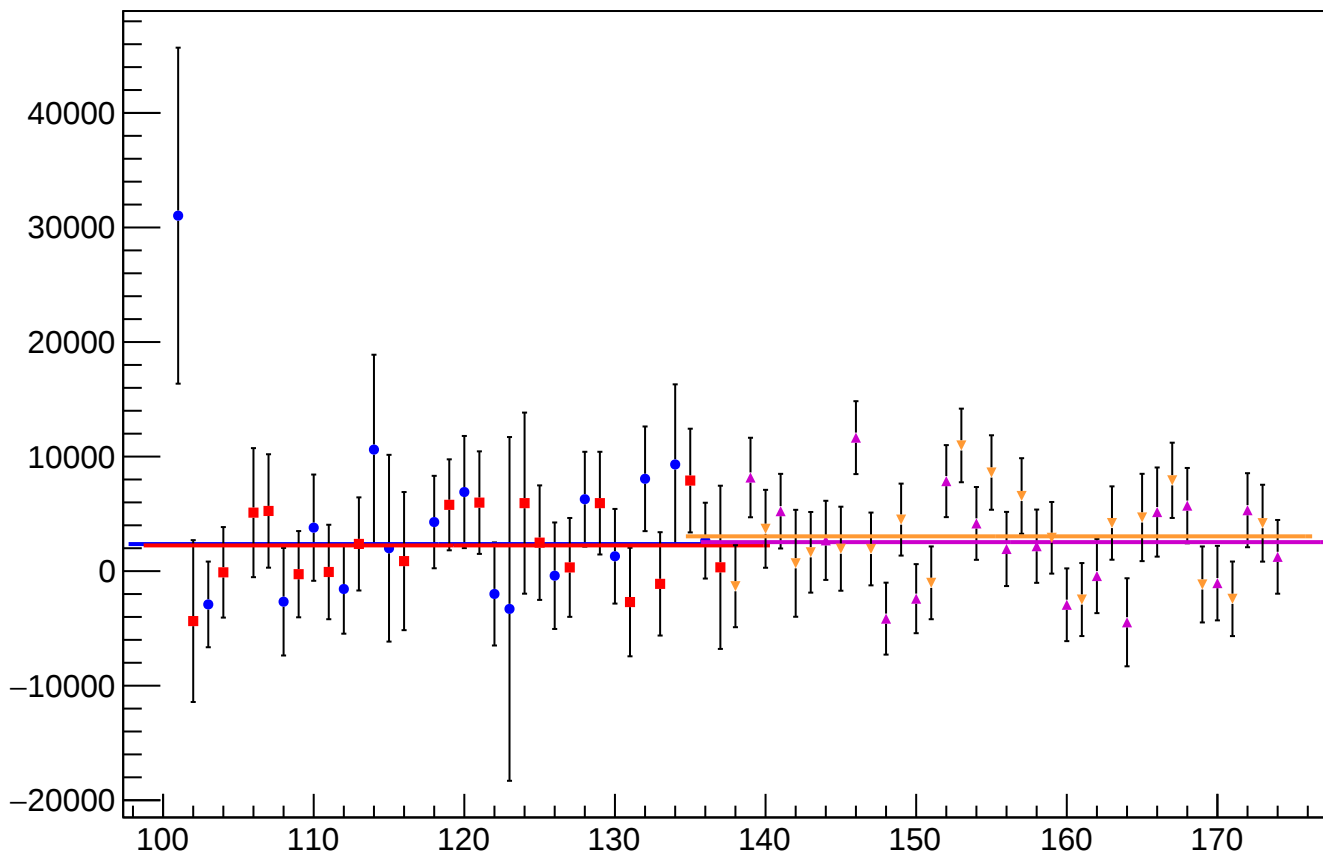
Right: 572.473+/-0.116  $\chi^2/\text{NDF}$ : 2970817.1/34

In: 697.478+/-0.113  $\chi^2/\text{NDF}$ : 3358477.1/34

Out: 689.488+/-0.111  $\chi^2/\text{NDF}$ : 3851582.7/36

All: 693.429+/-0.079  $\chi^2/\text{NDF}$ : 7212610.4/71

# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2362.798 $\pm$ 1159.943  $\chi^2/\text{NDF}$ : 15.1/16

Left Out: 3037.712 $\pm$ 771.025  $\chi^2/\text{NDF}$ : 24.2/18

Right Out: 2245.410 $\pm$ 1111.935  $\chi^2/\text{NDF}$ : 8.5/17

Left In: 2531.936 $\pm$ 773.333  $\chi^2/\text{NDF}$ : 32.6/17

Left: 2785.580 $\pm$ 546.011  $\chi^2/\text{NDF}$ : 57.0/36

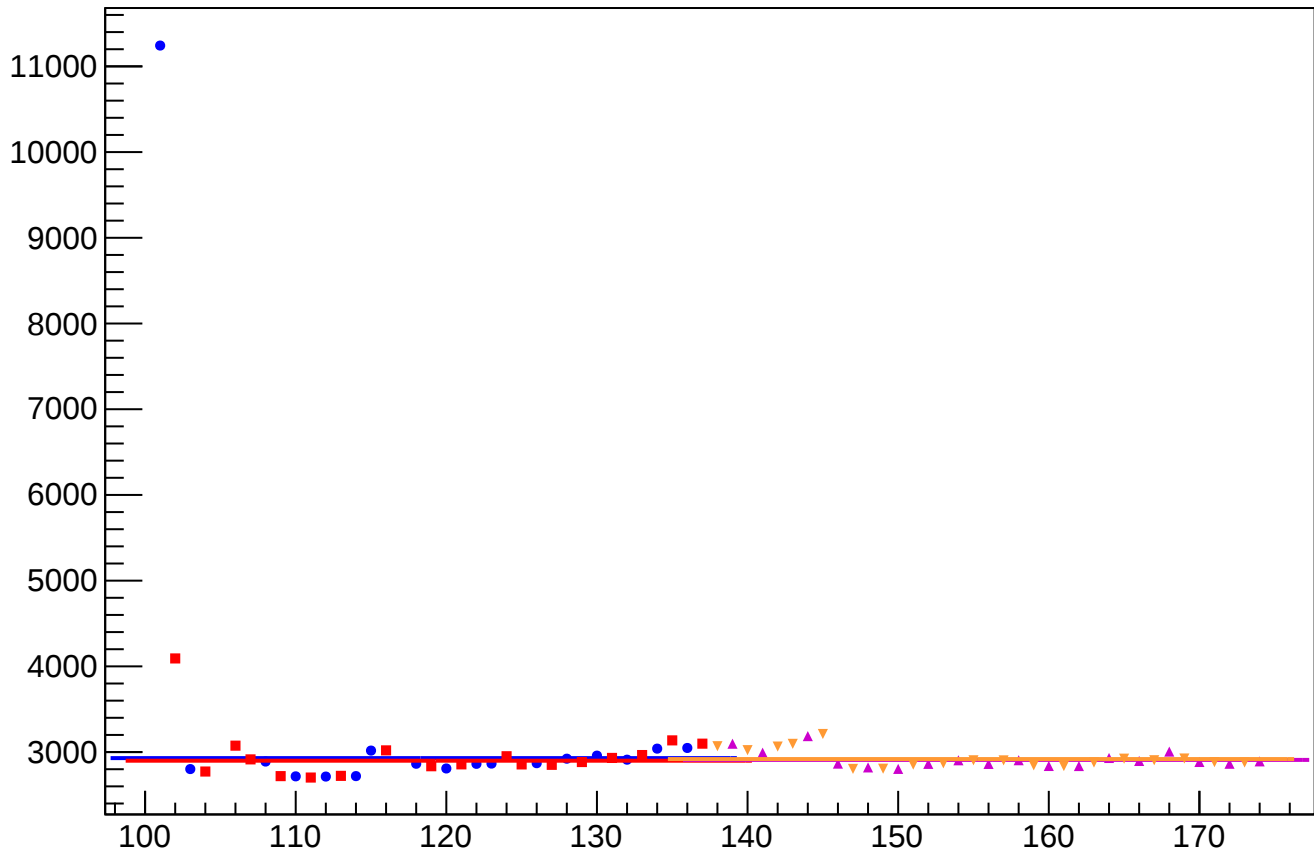
Right: 2301.625 $\pm$ 802.692  $\chi^2/\text{NDF}$ : 23.6/34

In: 2479.890 $\pm$ 643.442  $\chi^2/\text{NDF}$ : 47.7/34

Out: 2780.455 $\pm$ 633.604  $\chi^2/\text{NDF}$ : 33.1/36

All: 2632.488 $\pm$ 451.464  $\chi^2/\text{NDF}$ : 80.9/71

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2918.406+/-0.545  $\chi^2/\text{NDF}$ : 35025.7/18

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

Left In: 2908.720+/-0.547  $\chi^2/\text{NDF}$ : 29713.4/17

Left: 2913.577+/-0.386  $\chi^2/\text{NDF}$ : 64896.5/36

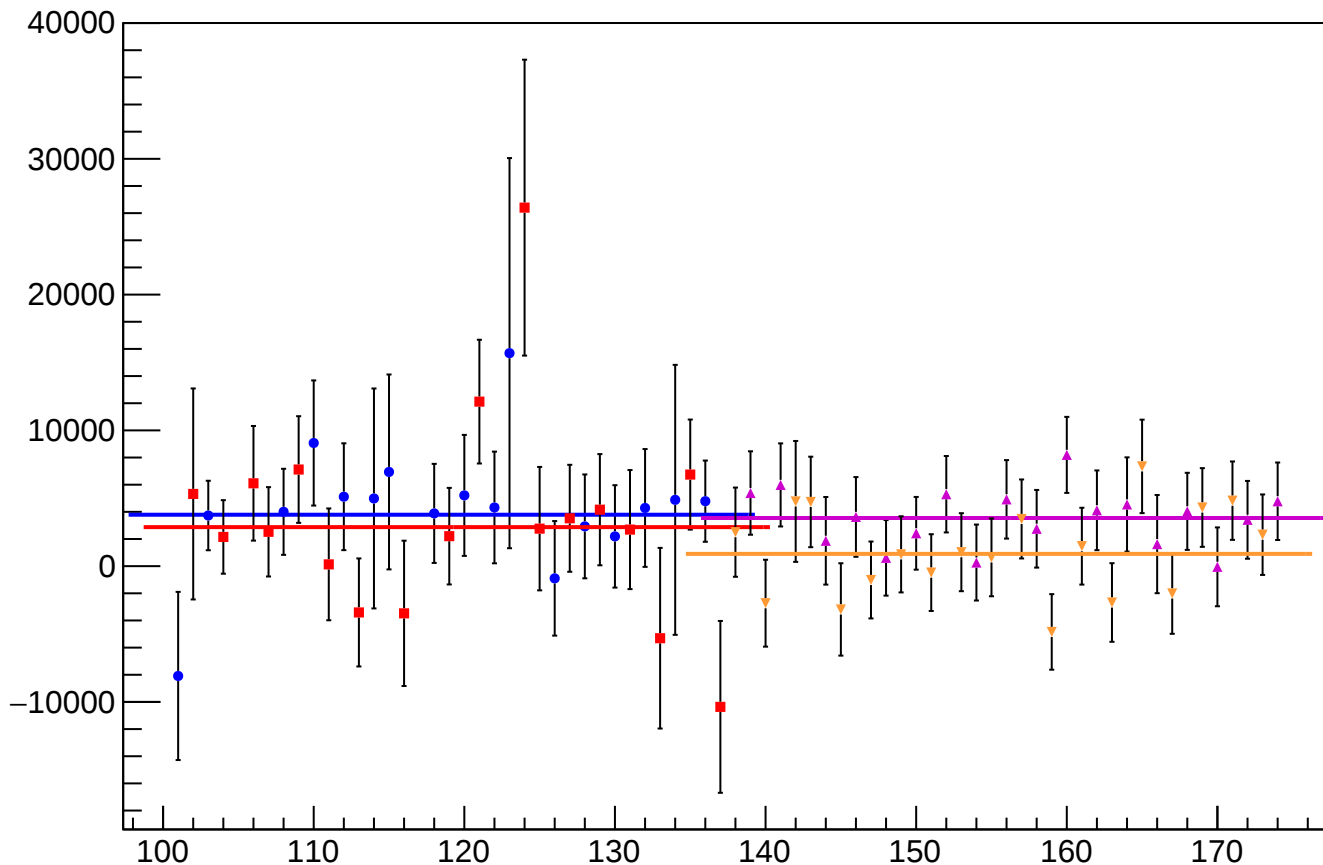
Right: 2913.904+/-0.568  $\chi^2/\text{NDF}$ : 746879.7/34

In: 2915.161+/-0.455  $\chi^2/\text{NDF}$ : 692793.4/34

Out: 2912.245+/-0.448  $\chi^2/\text{NDF}$ : 118962.1/36

All: 2913.680+/-0.319  $\chi^2/\text{NDF}$ : 811776.4/71

dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3787.840 $\pm$ 1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 905.271 $\pm$ 693.434  $\chi^2/\text{NDF}$ : 20.3/18

Right Out: 2874.691 $\pm$ 1004.077  $\chi^2/\text{NDF}$ : 22.0/17

Left In: 3546.850 $\pm$ 693.371  $\chi^2/\text{NDF}$ : 9.5/17

Left: 2226.179 $\pm$ 490.309  $\chi^2/\text{NDF}$ : 37.1/36

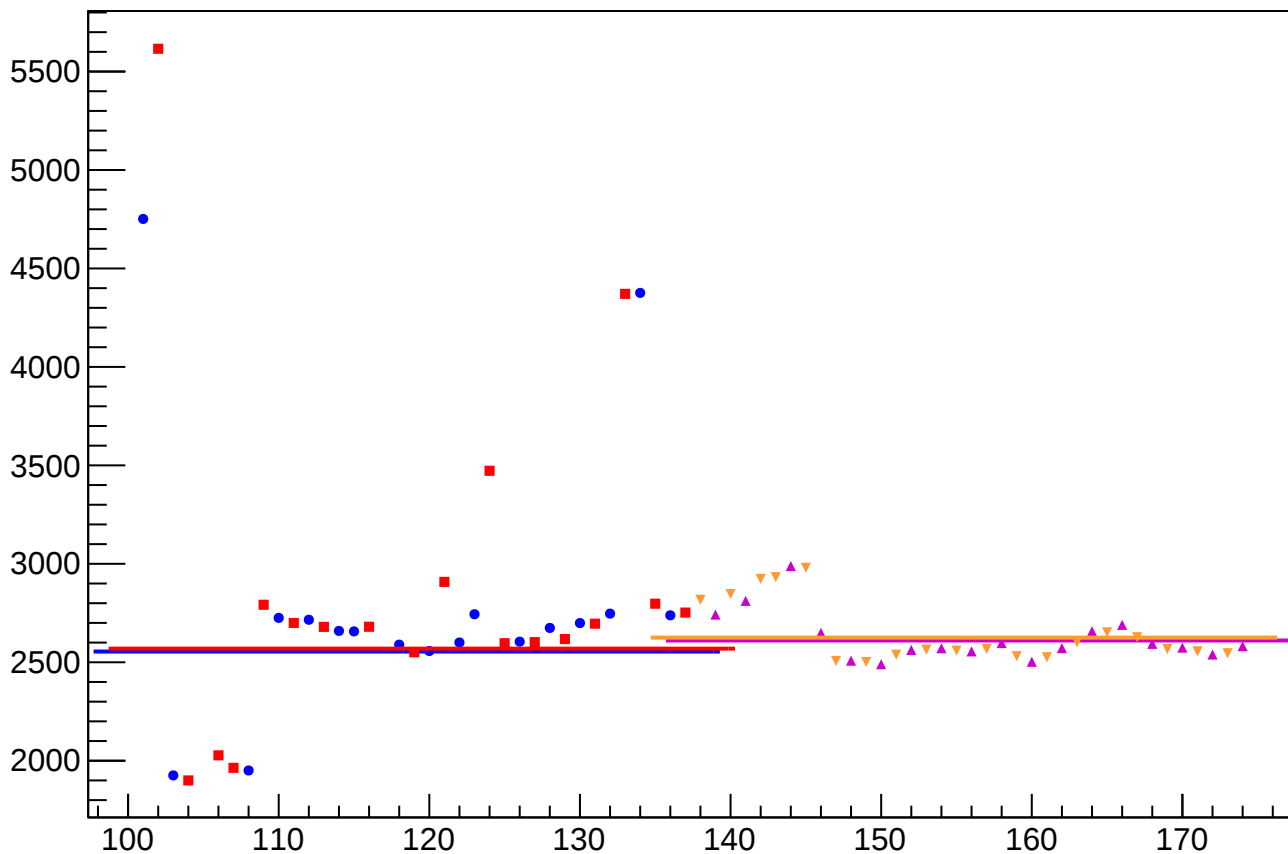
Right: 3329.431 $\pm$ 711.415  $\chi^2/\text{NDF}$ : 30.2/34

In: 3624.241 $\pm$ 571.290  $\chi^2/\text{NDF}$ : 17.3/34

Out: 1541.256 $\pm$ 570.587  $\chi^2/\text{NDF}$ : 44.9/36

All: 2581.465 $\pm$ 403.714  $\chi^2/\text{NDF}$ : 68.9/71

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2554.537 $\pm$ 0.713  $\chi^2$ /NDF: 536626.0/16

Left Out: 2625.136 $\pm$ 0.490  $\chi^2$ /NDF: 84520.6/18

Right Out: 2569.256 $\pm$ 0.710  $\chi^2$ /NDF: 723332.1/17

Left In: 2610.668 $\pm$ 0.490  $\chi^2$ /NDF: 55096.6/17

Left: 2617.901 $\pm$ 0.347  $\chi^2$ /NDF: 140052.5/36

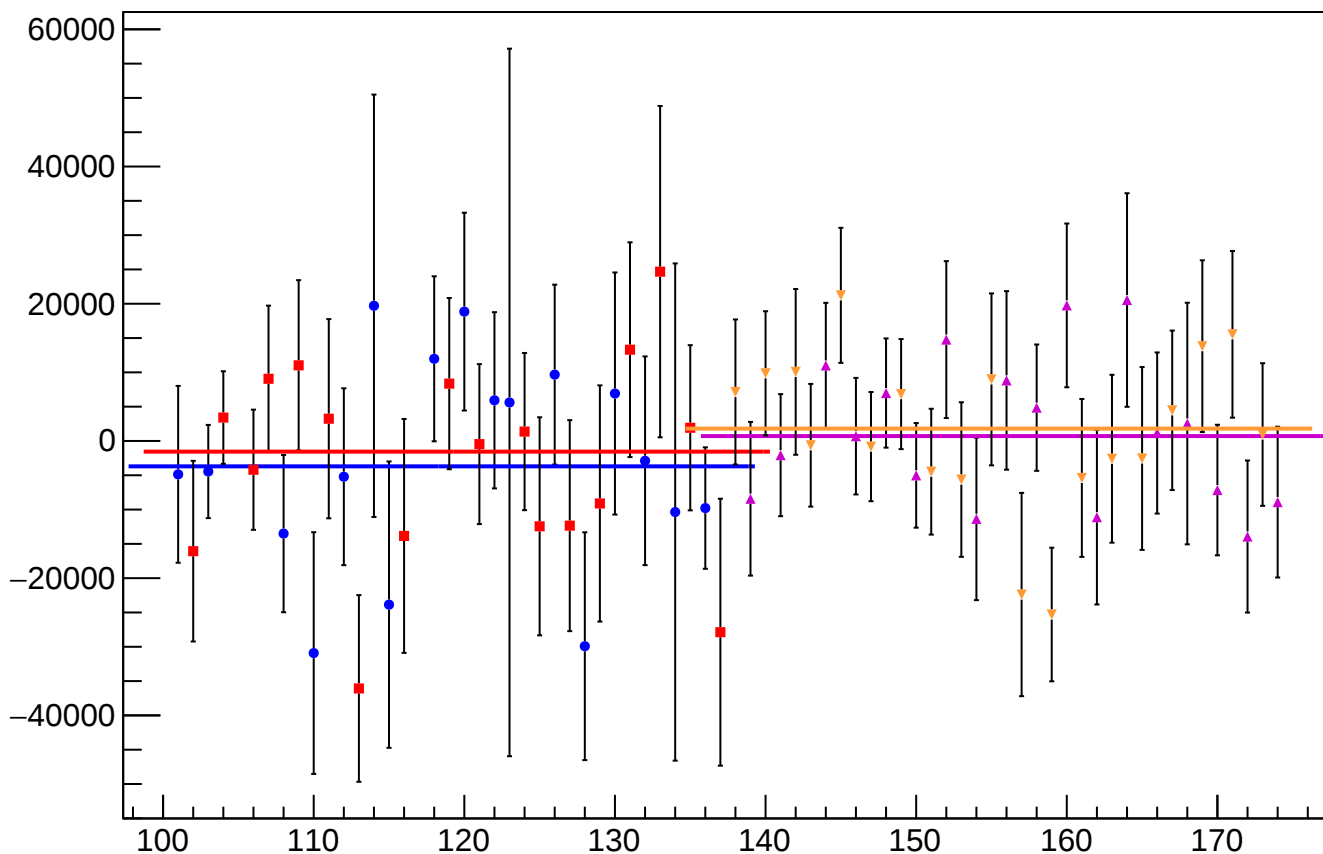
Right: 2561.929 $\pm$ 0.503  $\chi^2$ /NDF: 1260172.2/34

In: 2592.642 $\pm$ 0.404  $\chi^2$ /NDF: 595931.8/34

Out: 2607.081 $\pm$ 0.403  $\chi^2$ /NDF: 812049.0/36

All: 2599.871 $\pm$ 0.285  $\chi^2$ /NDF: 1408620.4/71

asym\_atr2\_correction\_mean vs Slug, Sign Corrected



Right In: -3699.522 $\pm$ 3217.843  $\chi^2$ /NDF: 13.8/16

Left Out: 1800.912 $\pm$ 2403.492  $\chi^2$ /NDF:20.5/18

Right Out: -1555.707 $\pm$ 2911.769  $\chi^2$ /NDF: 16.8/17

Left In: 712.814 $\pm$ 2445.581  $\chi^2$ /NDF:14.6/17

Left: 1266.307 $\pm$ 1714.213  $\chi^2$ /NDF: 35.2/36

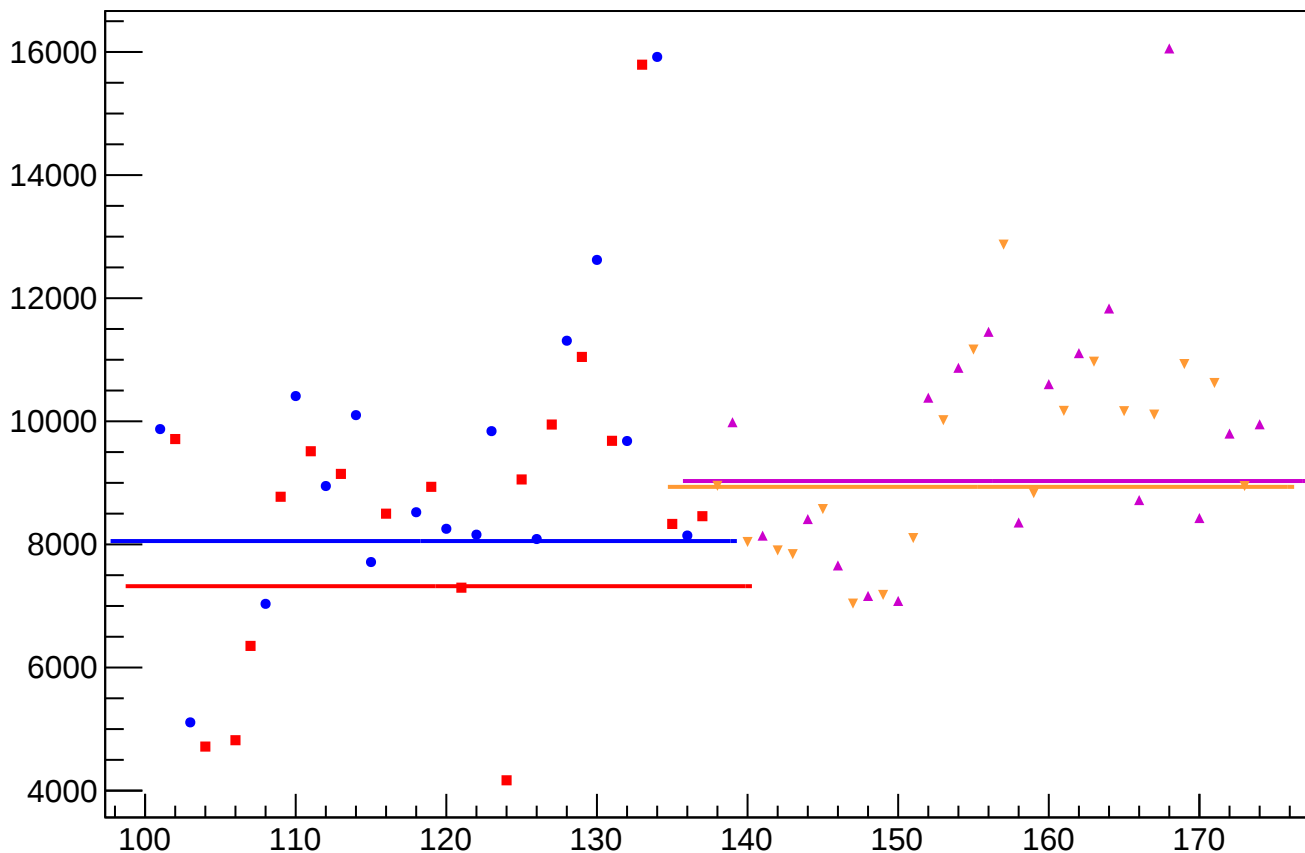
Right: -2520.832 $\pm$ 2159.052  $\chi^2$ /NDF: 30.8/34

In: -902.673 $\pm$ 1947.074  $\chi^2$ /NDF:29.6/34

Out: 440.674 $\pm$ 1853.589  $\chi^2$ /NDF:38.1/36

All: -197.977 $\pm$ 1342.518  $\chi^2$ /NDF: 67.9/71

# asym\_atr2\_correction\_rms vs Slug, Sign Corrected



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 8934.878+/-1.700  $\chi^2/\text{NDF}$ : 720893.9/18

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

Left In: 9029.892+/-1.729  $\chi^2/\text{NDF}$ : 997406.3/17

Left: 8981.560+/-1.212  $\chi^2/\text{NDF}$ : 1719835.9/36

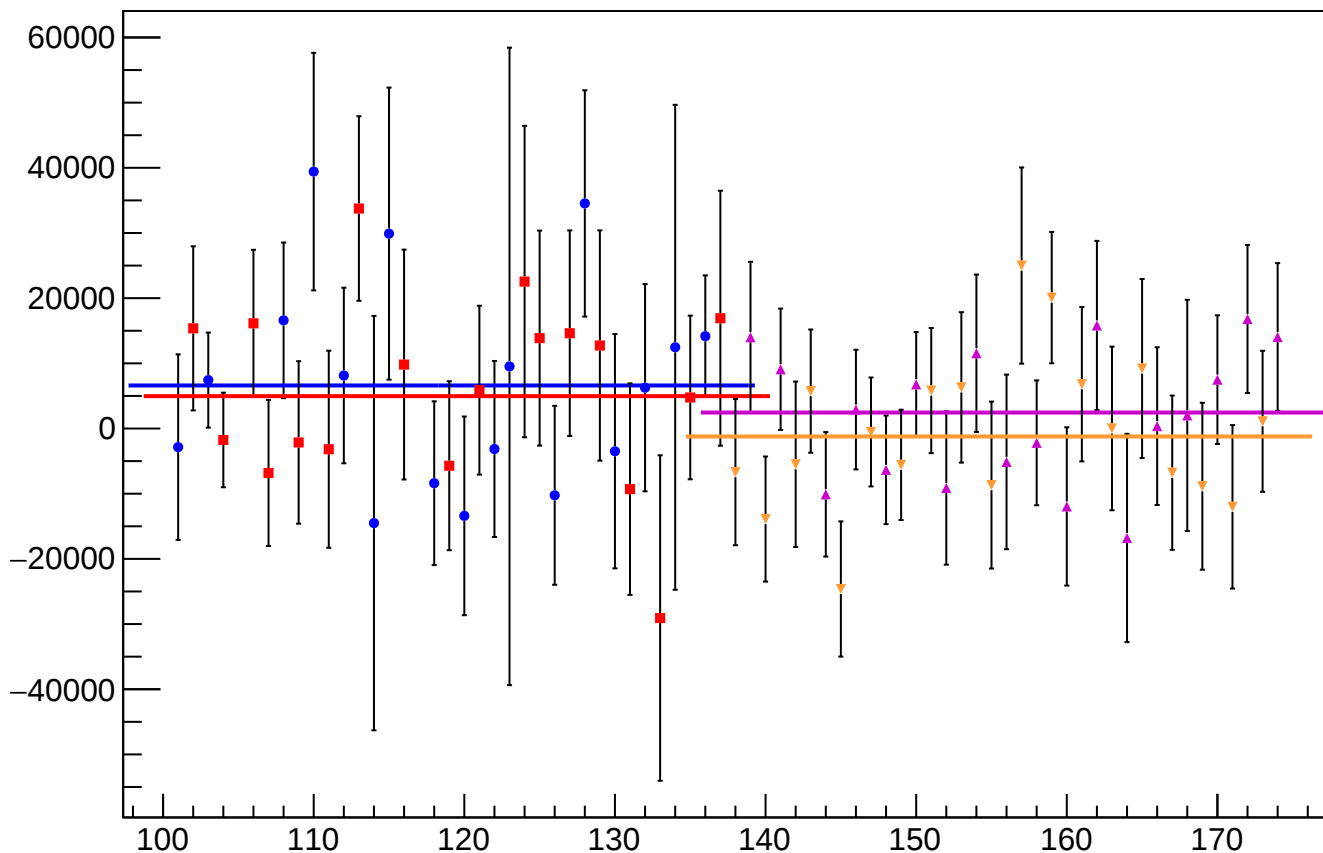
Right: 7651.572+/-1.527  $\chi^2/\text{NDF}$ : 2213832.0/34

In: 8672.871+/-1.377  $\chi^2/\text{NDF}$ : 1934586.6/34

Out: 8281.043+/-1.311  $\chi^2/\text{NDF}$ : 2422082.4/36

All: 8467.325+/-0.949  $\chi^2/\text{NDF}$ : 4399157.5/71

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -1217.101+/-2504.324  $\chi^2/\text{NDF}$ : 19.2/18

Right Out: 4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 2456.308+/-2541.930  $\chi^2/\text{NDF}$ : 13.6/17

Left: 592.230+/-1783.972  $\chi^2/\text{NDF}$ : 33.9/36

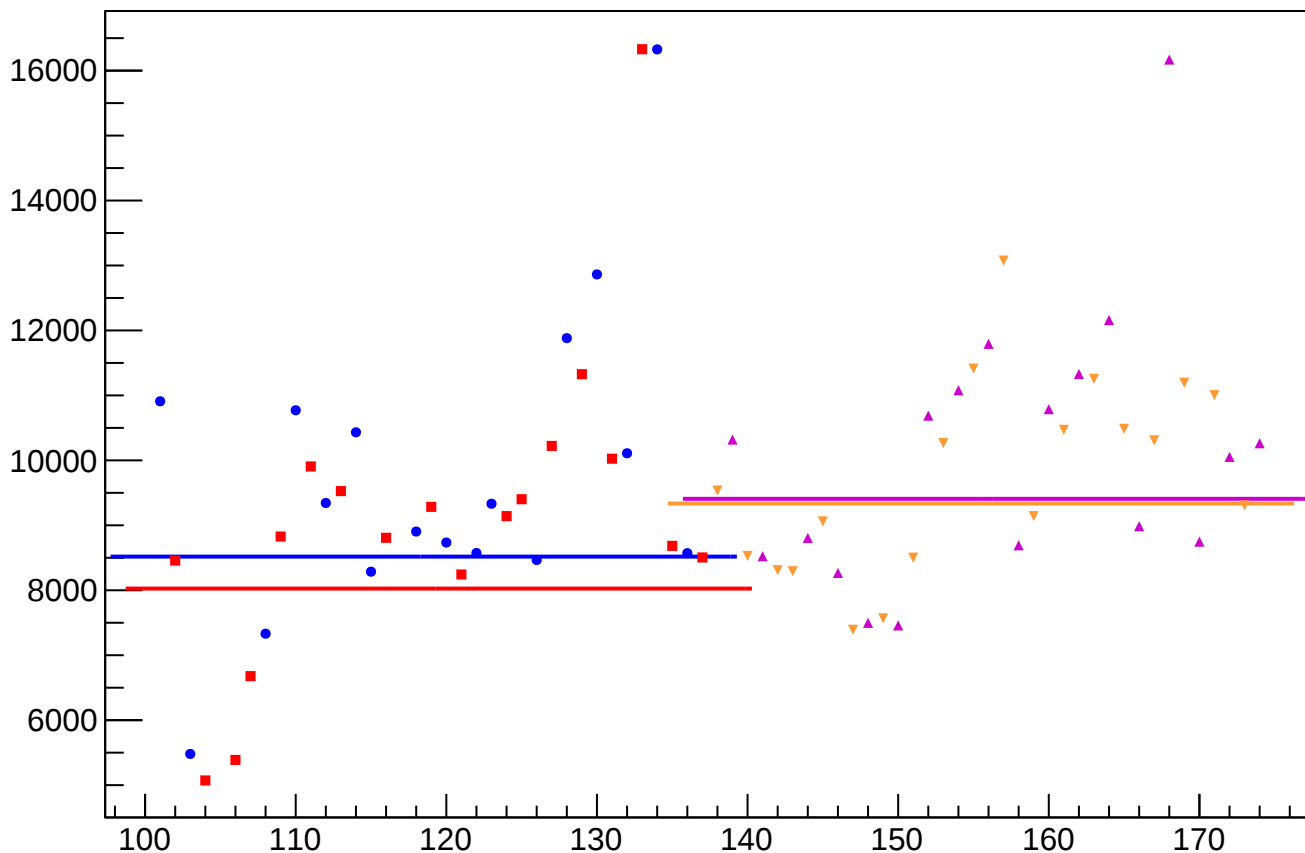
Right: 5732.997+/-2319.944  $\chi^2/\text{NDF}$ : 28.4/34

In: 3946.942+/-2034.973  $\chi^2/\text{NDF}$ : 29.2/34

Out: 1153.297+/-1966.723  $\chi^2/\text{NDF}$ : 35.1/36

All: 2502.487+/-1414.196  $\chi^2/\text{NDF}$ : 65.3/71

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8518.273+/-2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 9335.170+/-1.771  $\chi^2/\text{NDF}$ : 624250.1/18

Right Out: 8026.045+/-2.246  $\chi^2/\text{NDF}$ : 942657.8/17

Left In: 9407.931+/-1.797  $\chi^2/\text{NDF}$ : 878123.9/17

Left: 9371.008+/-1.261  $\chi^2/\text{NDF}$ : 1503205.6/36

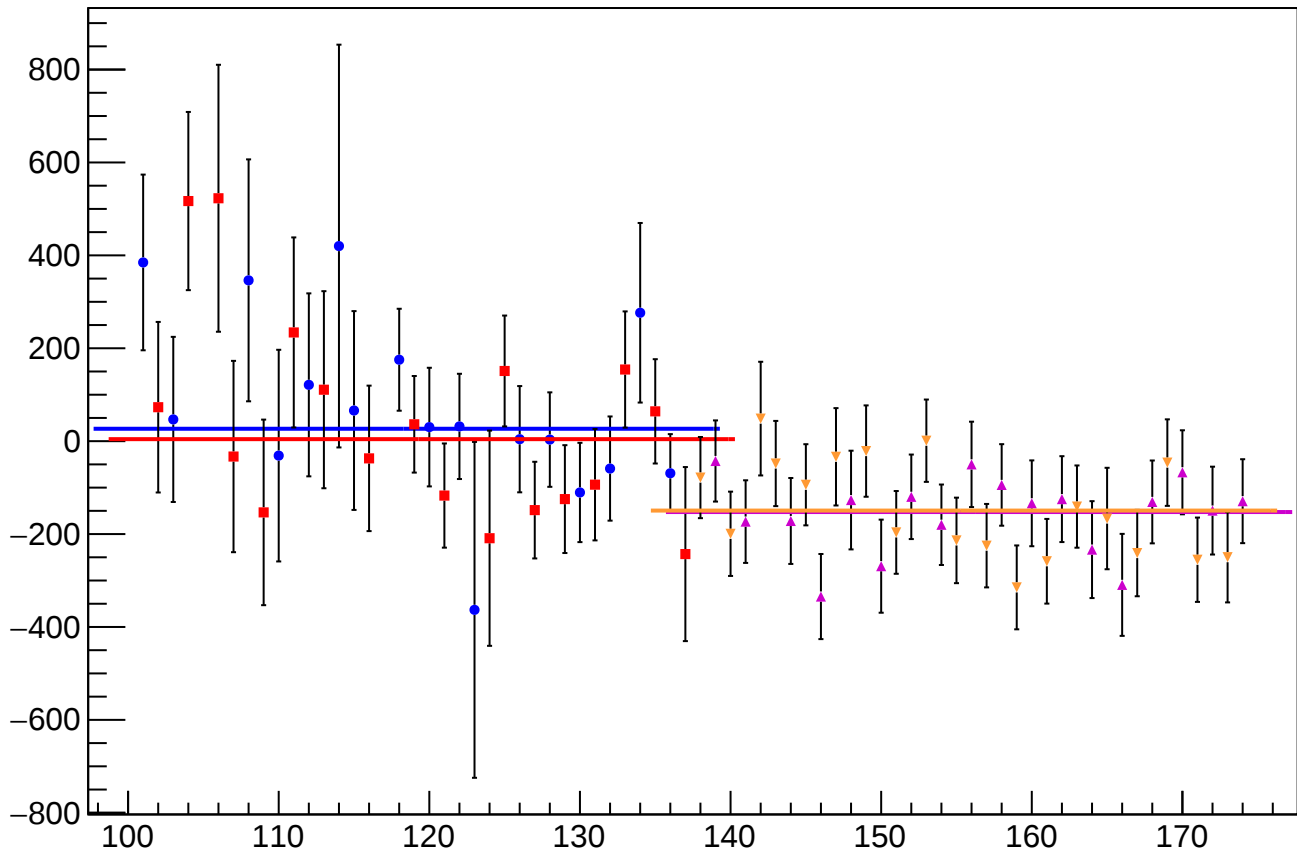
Right: 8255.767+/-1.640  $\chi^2/\text{NDF}$ : 1737062.4/34

In: 9088.454+/-1.439  $\chi^2/\text{NDF}$ : 1738095.1/34

Out: 8833.418+/-1.391  $\chi^2/\text{NDF}$ : 1776376.5/36

All: 8956.586+/-1.000  $\chi^2/\text{NDF}$ : 3530714.2/71

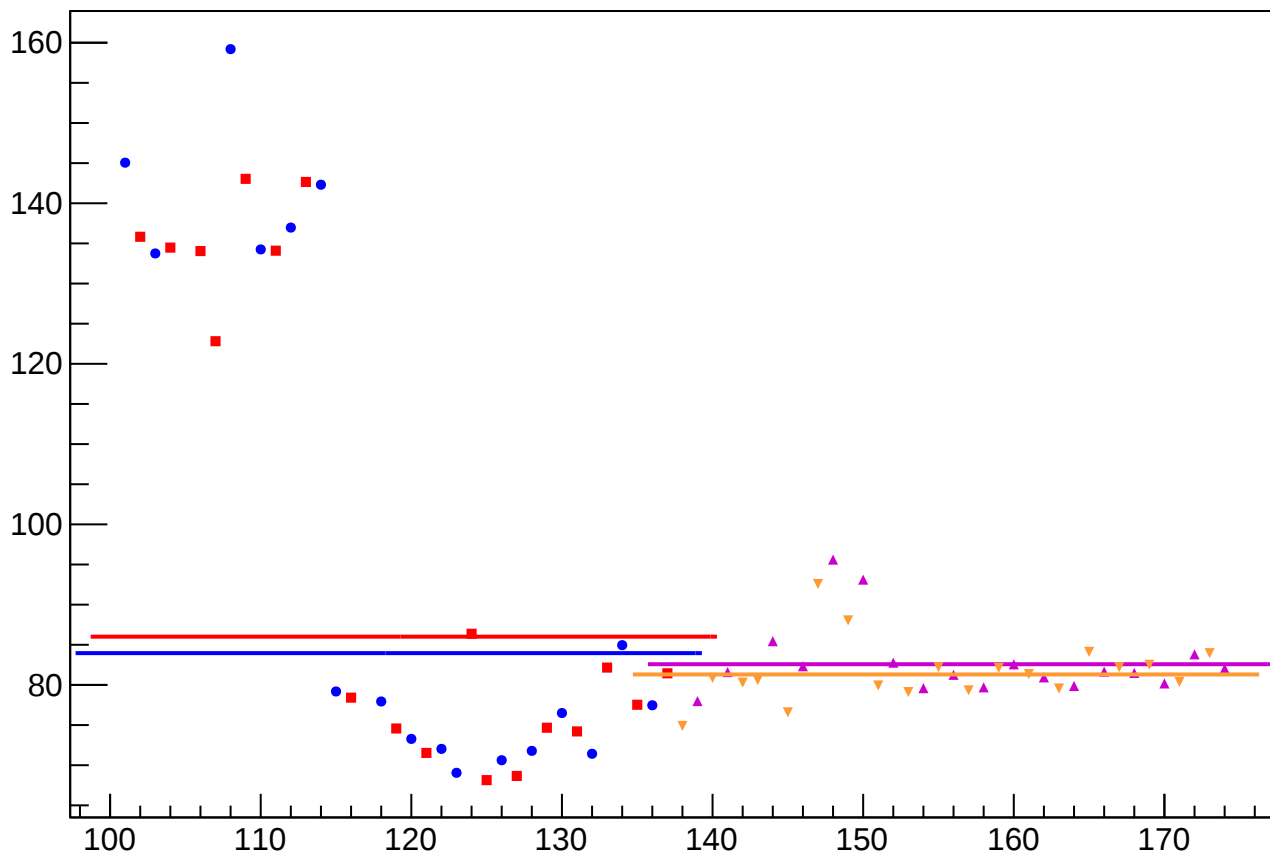
# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 26.713 $\pm$ 33.626  $\chi^2/\text{NDF}$ : 14.5/16  
Left Out: -149.412 $\pm$ 21.462  $\chi^2/\text{NDF}$ : 21.9/18  
Right Out: 4.338 $\pm$ 33.842  $\chi^2/\text{NDF}$ : 23.9/17  
Left In: -152.578 $\pm$ 21.952  $\chi^2/\text{NDF}$ : 12.7/17

Left: -150.960 $\pm$ 15.346  $\chi^2/\text{NDF}$ : 34.7/36  
Right: 15.597 $\pm$ 23.853  $\chi^2/\text{NDF}$ : 38.7/34  
In: -99.003 $\pm$ 18.381  $\chi^2/\text{NDF}$ : 47.2/34  
Out: -105.313 $\pm$ 18.124  $\chi^2/\text{NDF}$ : 60.6/36  
All: -102.203 $\pm$ 12.906  $\chi^2/\text{NDF}$ : 107.8/71

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 83.961 $\pm$ 0.024  $\chi^2$ /NDF: 960253.6/16

Left Out: 81.304 $\pm$ 0.015  $\chi^2$ /NDF: 56781.5/18

Right Out: 86.012 $\pm$ 0.024  $\chi^2$ /NDF: 1026404.0/17

Left In: 82.579 $\pm$ 0.016  $\chi^2$ /NDF: 69123.9/17

Left: 81.927 $\pm$ 0.011  $\chi^2$ /NDF: 129354.4/36

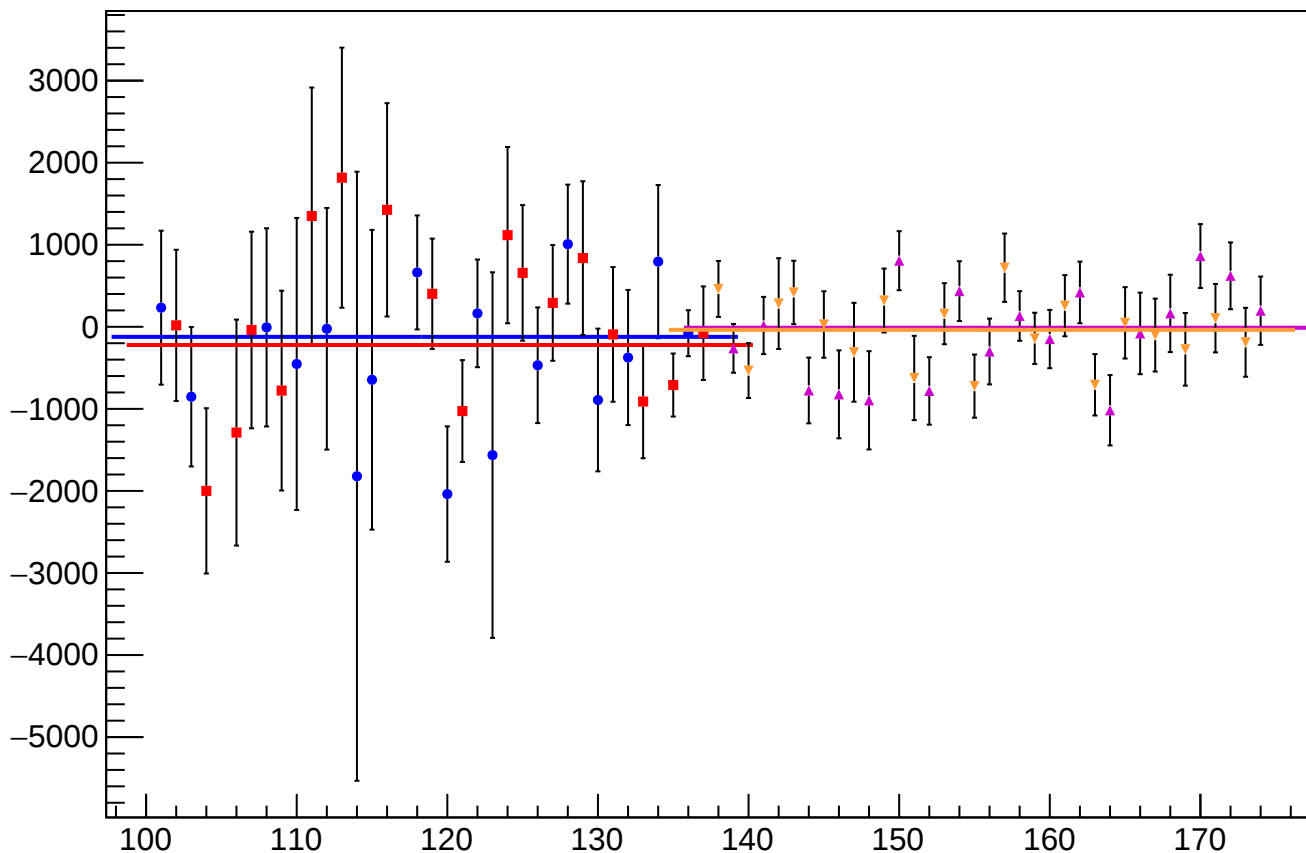
Right: 84.980 $\pm$ 0.017  $\chi^2$ /NDF: 1990355.7/34

In: 82.992 $\pm$ 0.013  $\chi^2$ /NDF: 1031744.6/34

Out: 82.655 $\pm$ 0.013  $\chi^2$ /NDF: 1110788.5/36

All: 82.821 $\pm$ 0.009  $\chi^2$ /NDF: 2142874.7/71

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



Right In: -122.410 $\pm$ 179.587  $\chi^2$ /NDF: 13.0/16

Left Out: -36.657 $\pm$ 92.075  $\chi^2$ /NDF:19.7/18

Right Out: -221.525 $\pm$ 185.098  $\chi^2$ /NDF: 18.0/17

Left In: -11.293 $\pm$ 92.135  $\chi^2$ /NDF:34.6/17

Left: -23.983 $\pm$ 65.128  $\chi^2$ /NDF: 54.3/36

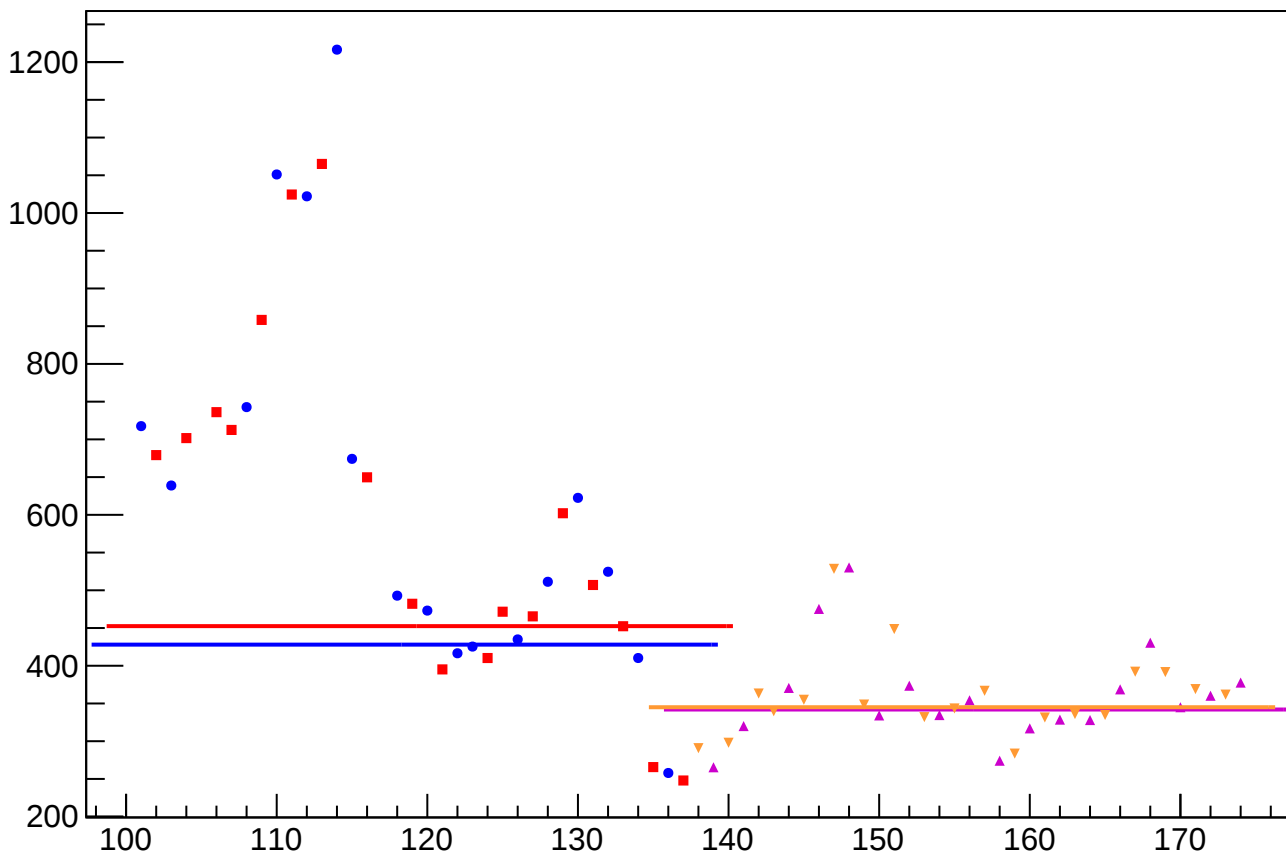
Right: -170.470 $\pm$ 128.892  $\chi^2$ /NDF: 31.2/34

In: -34.446 $\pm$ 81.976  $\chi^2$ /NDF:47.9/34

Out: -73.328 $\pm$ 82.439  $\chi^2$ /NDF:38.5/36

All: -53.777 $\pm$ 58.129  $\chi^2$ /NDF: 86.6/71

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 345.018+/-0.065  $\chi^2/\text{NDF}$ : 505623.9/18

Right Out: 452.508+/-0.131  $\chi^2/\text{NDF}$ : 2073032.9/17

Left In: 341.993+/-0.065  $\chi^2/\text{NDF}$ : 697835.0/17

Left: 343.506+/-0.046  $\chi^2/\text{NDF}$ : 1204537.5/36

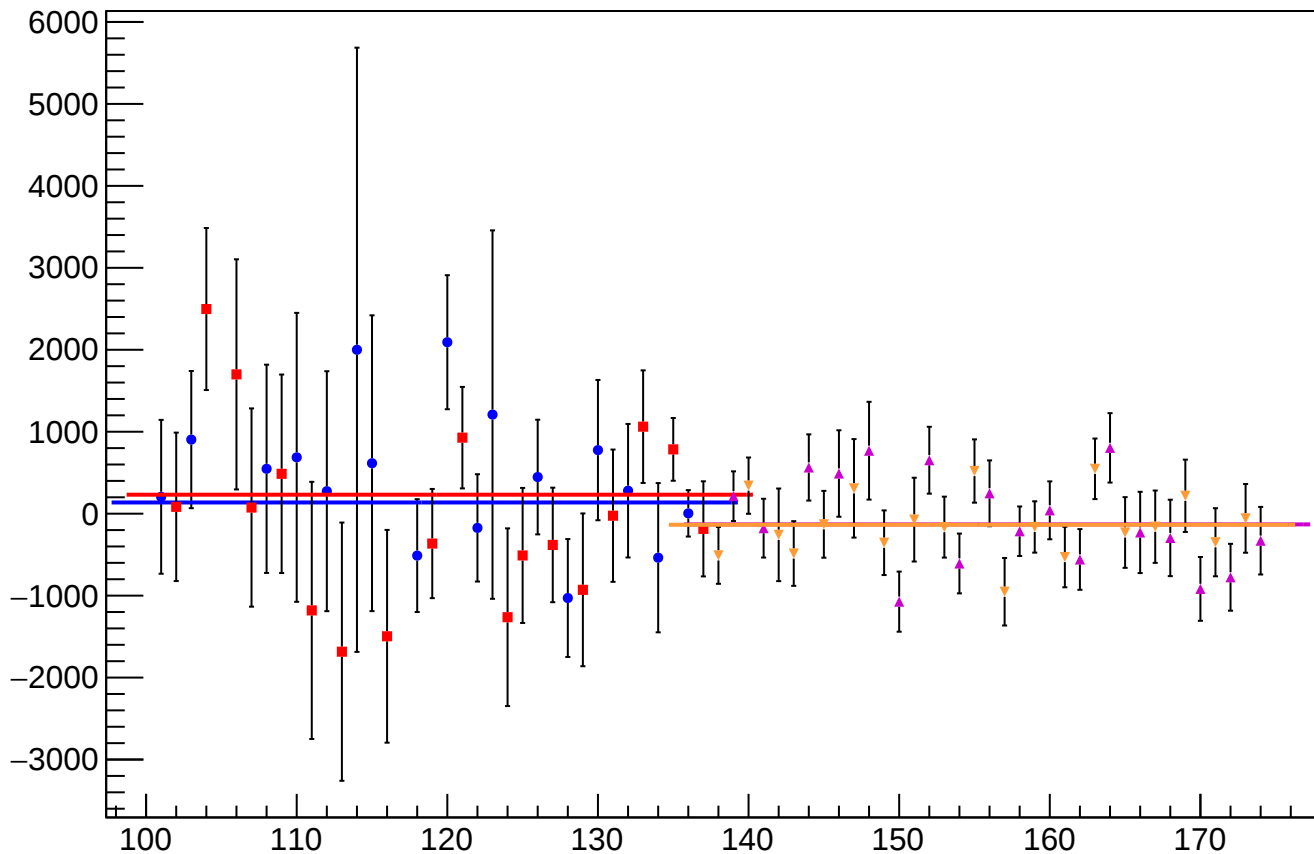
Right: 439.876+/-0.091  $\chi^2/\text{NDF}$ : 4153360.2/34

In: 359.911+/-0.058  $\chi^2/\text{NDF}$ : 3123097.9/34

Out: 366.340+/-0.058  $\chi^2/\text{NDF}$ : 3119331.5/36

All: 363.107+/-0.041  $\chi^2/\text{NDF}$ : 6248545.6/71

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In:  $136.810 \pm 179.609$   $\chi^2/\text{NDF}: 12.6/16$

Left Out:  $-135.084 \pm 92.370$   $\chi^2/\text{NDF}: 17.2/18$

Right Out:  $231.586 \pm 184.578$   $\chi^2/\text{NDF}: 21.8/17$

Left In:  $-130.737 \pm 92.333$   $\chi^2/\text{NDF}: 34.3/17$

Left:  $-132.910 \pm 65.302$   $\chi^2/\text{NDF}: 51.5/36$

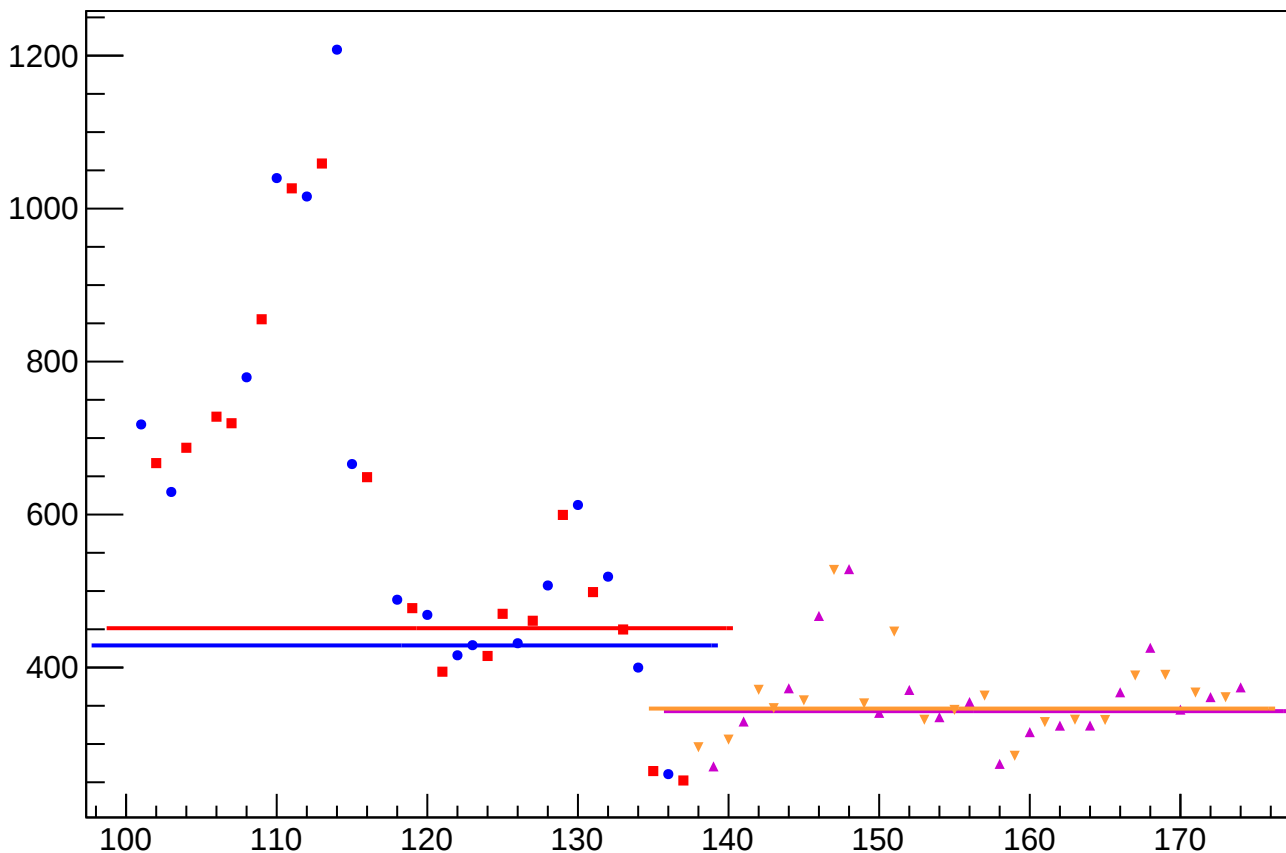
Right:  $182.905 \pm 128.724$   $\chi^2/\text{NDF}: 34.5/34$

In:  $-74.810 \pm 82.118$   $\chi^2/\text{NDF}: 48.7/34$

Out:  $-61.648 \pm 82.604$   $\chi^2/\text{NDF}: 42.1/36$

All:  $-68.268 \pm 58.237$   $\chi^2/\text{NDF}: 90.8/71$

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 346.339+/-0.065  $\chi^2/\text{NDF}$ : 476635.7/18

Right Out: 451.411+/-0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

Left In: 342.959+/-0.065  $\chi^2/\text{NDF}$ : 652978.1/17

Left: 344.648+/-0.046  $\chi^2/\text{NDF}$ : 1130953.4/36

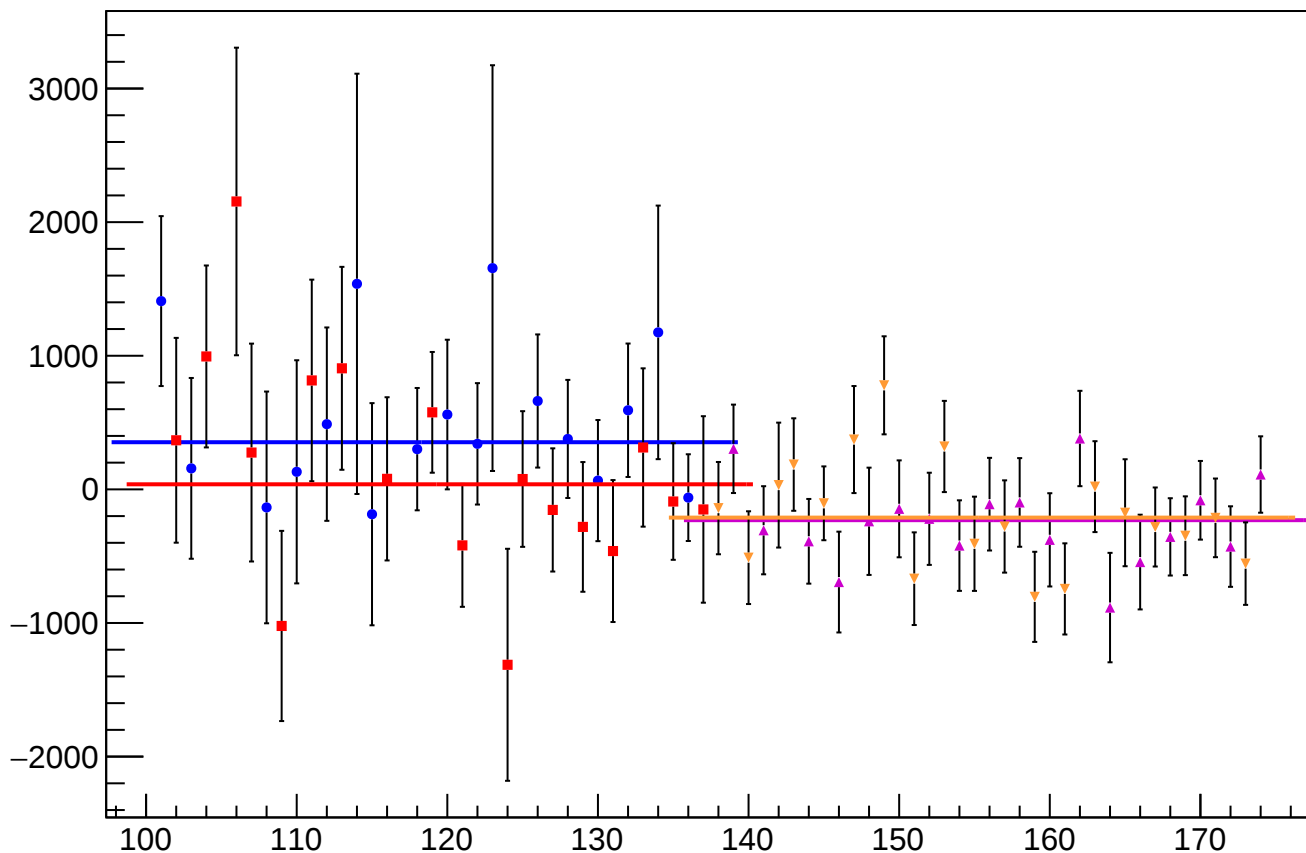
Right: 439.843+/-0.091  $\chi^2/\text{NDF}$ : 4056629.4/34

In: 360.921+/-0.058  $\chi^2/\text{NDF}$ : 3025667.4/34

Out: 367.383+/-0.058  $\chi^2/\text{NDF}$ : 3025675.5/36

All: 364.133+/-0.041  $\chi^2/\text{NDF}$ : 6057497.7/71

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 352.927 $\pm$ 137.298  $\chi^2/\text{NDF}$ : 8.5/16

Left Out: -211.356 $\pm$ 77.397  $\chi^2/\text{NDF}$ :24.0/18

Right Out: 37.982 $\pm$ 139.023  $\chi^2/\text{NDF}$ : 16.9/17

Left In: -230.514 $\pm$ 78.969  $\chi^2/\text{NDF}$ :13.8/17

Left: -220.743 $\pm$ 55.275  $\chi^2/\text{NDF}$ : 37.8/36

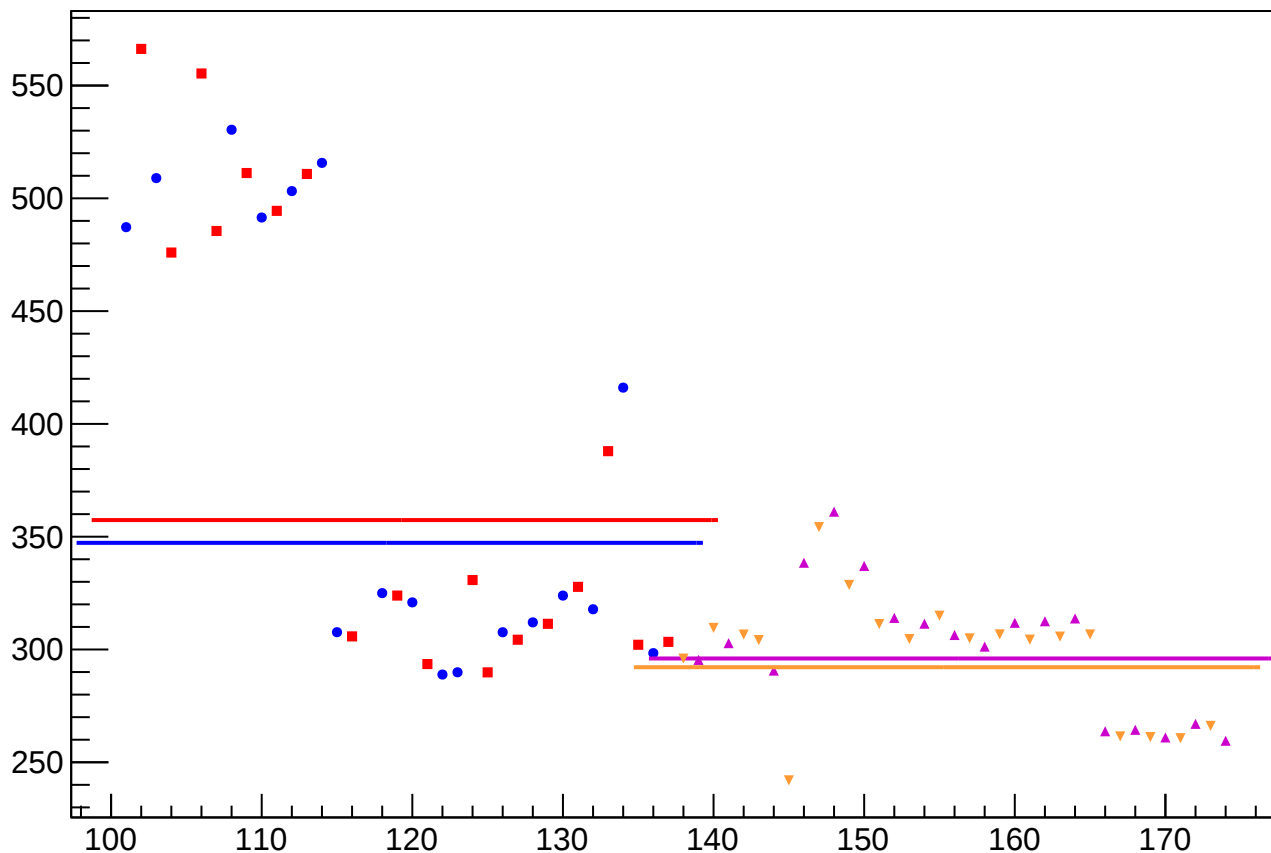
Right: 197.421 $\pm$ 97.689  $\chi^2/\text{NDF}$ : 28.1/34

In: -85.482 $\pm$ 68.454  $\chi^2/\text{NDF}$ :35.9/34

Out: -152.361 $\pm$ 67.624  $\chi^2/\text{NDF}$ :43.4/36

All: -119.330 $\pm$ 48.108  $\chi^2/\text{NDF}$ : 79.8/71

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 347.280+/-0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 292.136+/-0.055  $\chi^2/\text{NDF}$ :256050.7/18

Right Out: 357.365+/-0.098  $\chi^2/\text{NDF}$ : 759938.5/17

Left In: 296.013+/-0.056  $\chi^2/\text{NDF}$ :248691.4/17

Left: 294.036+/-0.039  $\chi^2/\text{NDF}$ : 507201.4/36

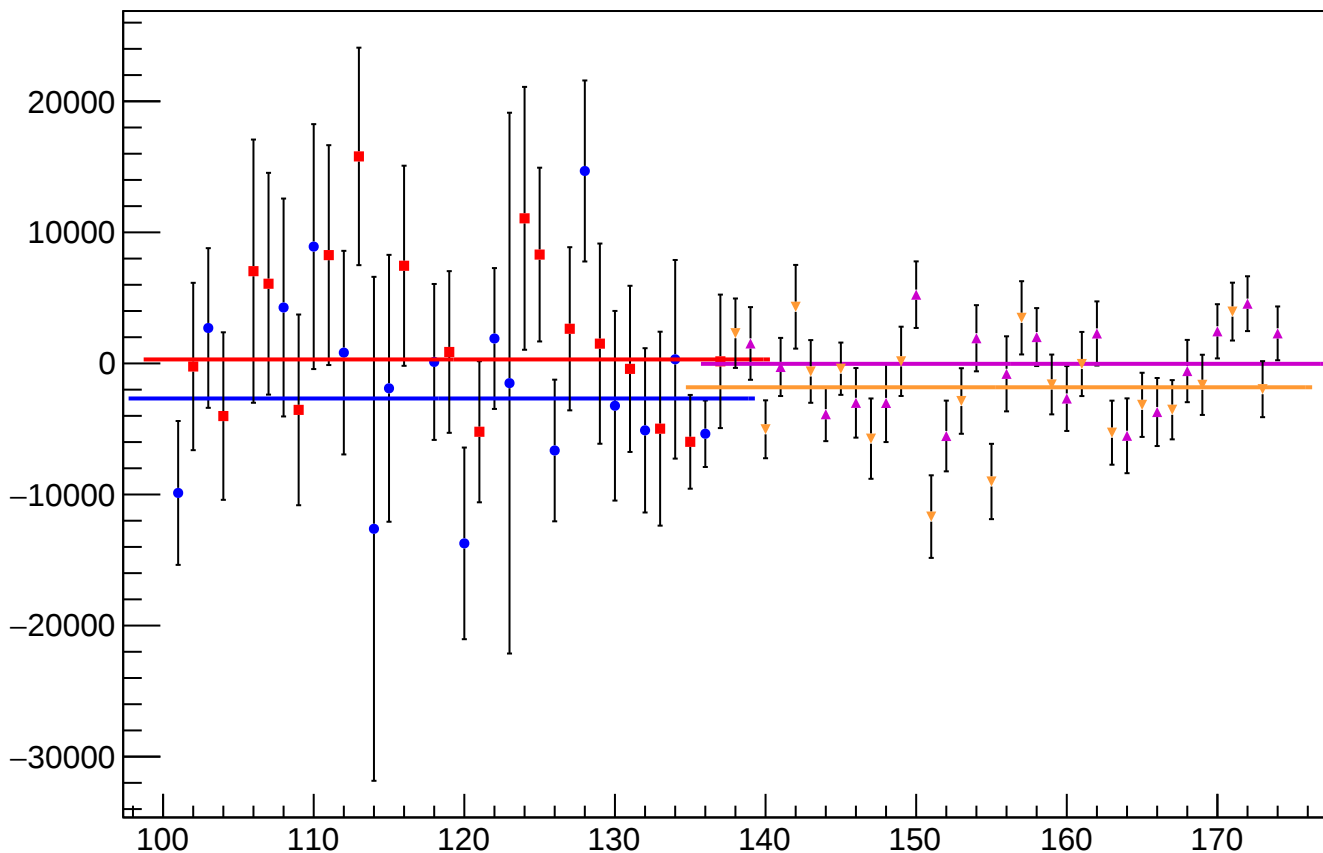
Right: 352.259+/-0.069  $\chi^2/\text{NDF}$ : 1384173.3/34

In: 308.757+/-0.048  $\chi^2/\text{NDF}$ :1077128.9/34

Out: 307.569+/-0.048  $\chi^2/\text{NDF}$ :1352099.1/36

All: 308.156+/-0.034  $\chi^2/\text{NDF}$ : 2429532.7/71

asym\_sam2\_correction\_mean vs Slug, Sign Corrected



Right In: -2674.025 $\pm$ 1456.188  $\chi^2$ /NDF: 16.7/16

Left Out: -1818.972 $\pm$ 564.838  $\chi^2$ /NDF:41.3/18

Right Out: 304.817 $\pm$ 1517.834  $\chi^2$ /NDF: 14.4/17

Left In: -30.820 $\pm$ 569.936  $\chi^2$ /NDF:31.4/17

Left: -932.929 $\pm$ 401.191  $\chi^2$ /NDF: 77.7/36

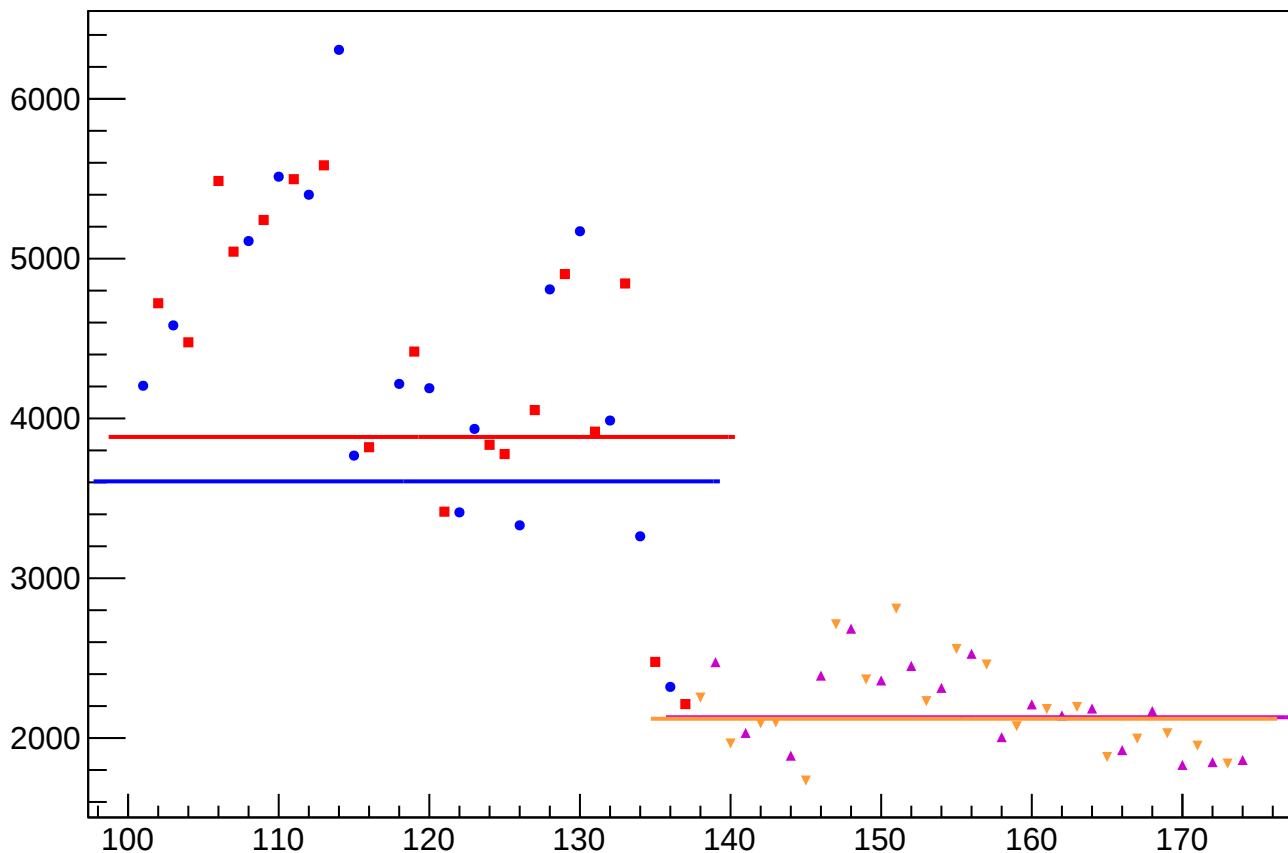
Right: -1246.323 $\pm$ 1050.798  $\chi^2$ /NDF: 33.1/34

In: -381.935 $\pm$ 530.734  $\chi^2$ /NDF:51.0/34

Out: -1560.637 $\pm$ 529.372  $\chi^2$ /NDF:57.4/36

All: -972.800 $\pm$ 374.803  $\chi^2$ /NDF: 110.9/71

asym\_sam2\_correction\_rms vs Slug, Sign Corrected



Right In: 3606.359+/-1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2120.831+/-0.399  $\chi^2/\text{NDF}$ : 435582.8/18

Right Out: 3884.203+/-1.073  $\chi^2/\text{NDF}$ : 994574.5/17

Left In: 2129.976+/-0.403  $\chi^2/\text{NDF}$ : 378254.7/17

Left: 2125.363+/-0.284  $\chi^2/\text{NDF}$ : 814097.3/36

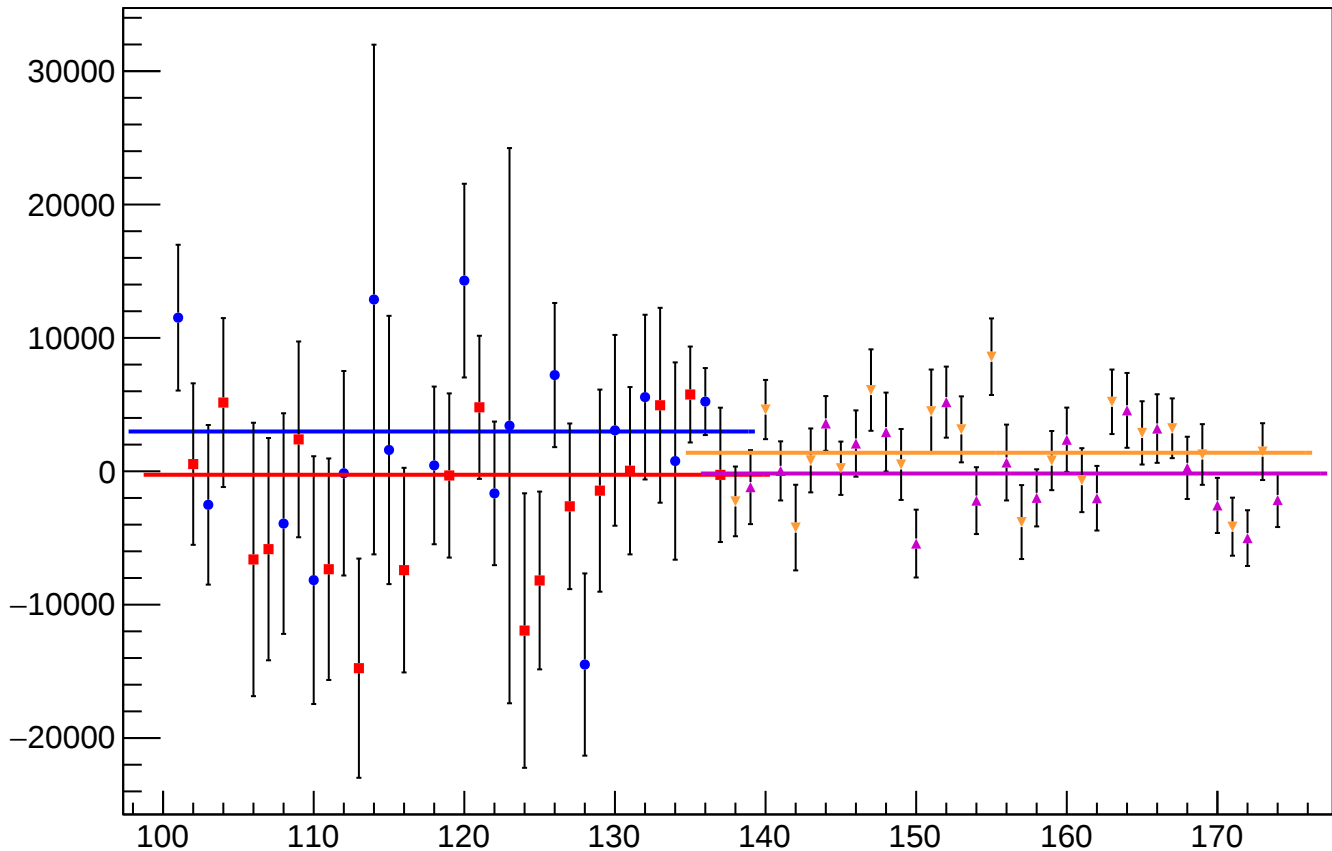
Right: 3739.524+/-0.743  $\chi^2/\text{NDF}$ : 2121988.0/34

In: 2326.094+/-0.375  $\chi^2/\text{NDF}$ : 3253537.1/34

Out: 2335.326+/-0.374  $\chi^2/\text{NDF}$ : 3801217.2/36

All: 2330.722+/-0.265  $\chi^2/\text{NDF}$ : 7055057.6/71

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2983.609 $\pm$ 1443.630  $\chi^2$ /NDF: 17.4/16

Left Out: 1389.736 $\pm$ 560.159  $\chi^2$ /NDF:32.2/18

Right Out: -259.721 $\pm$ 1510.344  $\chi^2$ /NDF: 13.5/17

Left In: -166.317 $\pm$ 563.006  $\chi^2$ /NDF:29.1/17

Left: 615.653 $\pm$ 397.095  $\chi^2$ /NDF: 65.1/36

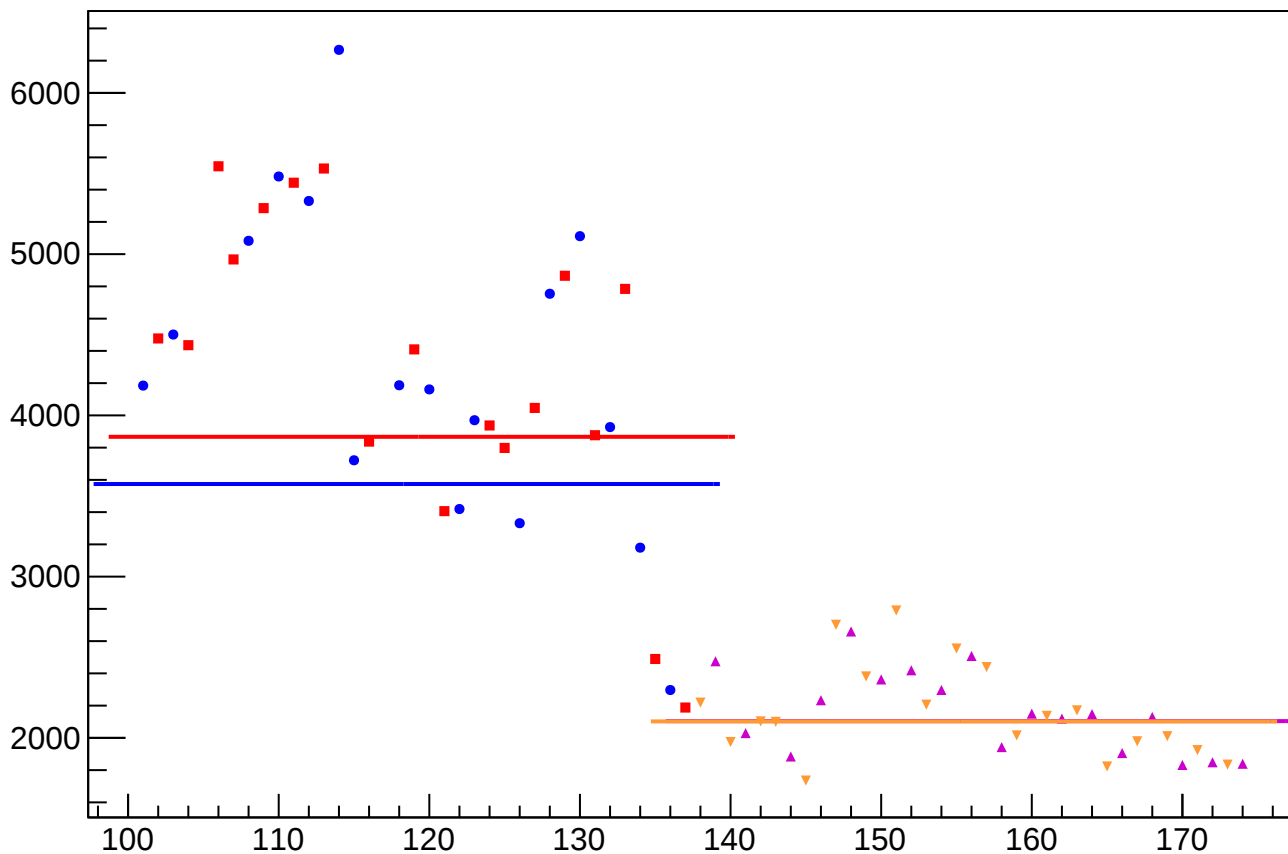
Right: 1435.156 $\pm$ 1043.589  $\chi^2$ /NDF: 33.3/34

In: 249.523 $\pm$ 524.528  $\chi^2$ /NDF:50.7/34

Out: 1190.283 $\pm$ 525.201  $\chi^2$ /NDF:46.7/36

All: 719.300 $\pm$ 371.135  $\chi^2$ /NDF: 99.0/71

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3574.362 $\pm$ 1.021  $\chi^2$ /NDF: 1091350.4/16

Left Out: 2102.089 $\pm$ 0.396  $\chi^2$ /NDF:443661.4/18

Right Out: 3867.232 $\pm$ 1.068  $\chi^2$ /NDF: 968137.9/17

Left In: 2103.952 $\pm$ 0.398  $\chi^2$ /NDF:361065.7/17

Left: 2103.016 $\pm$ 0.281  $\chi^2$ /NDF: 804738.2/36

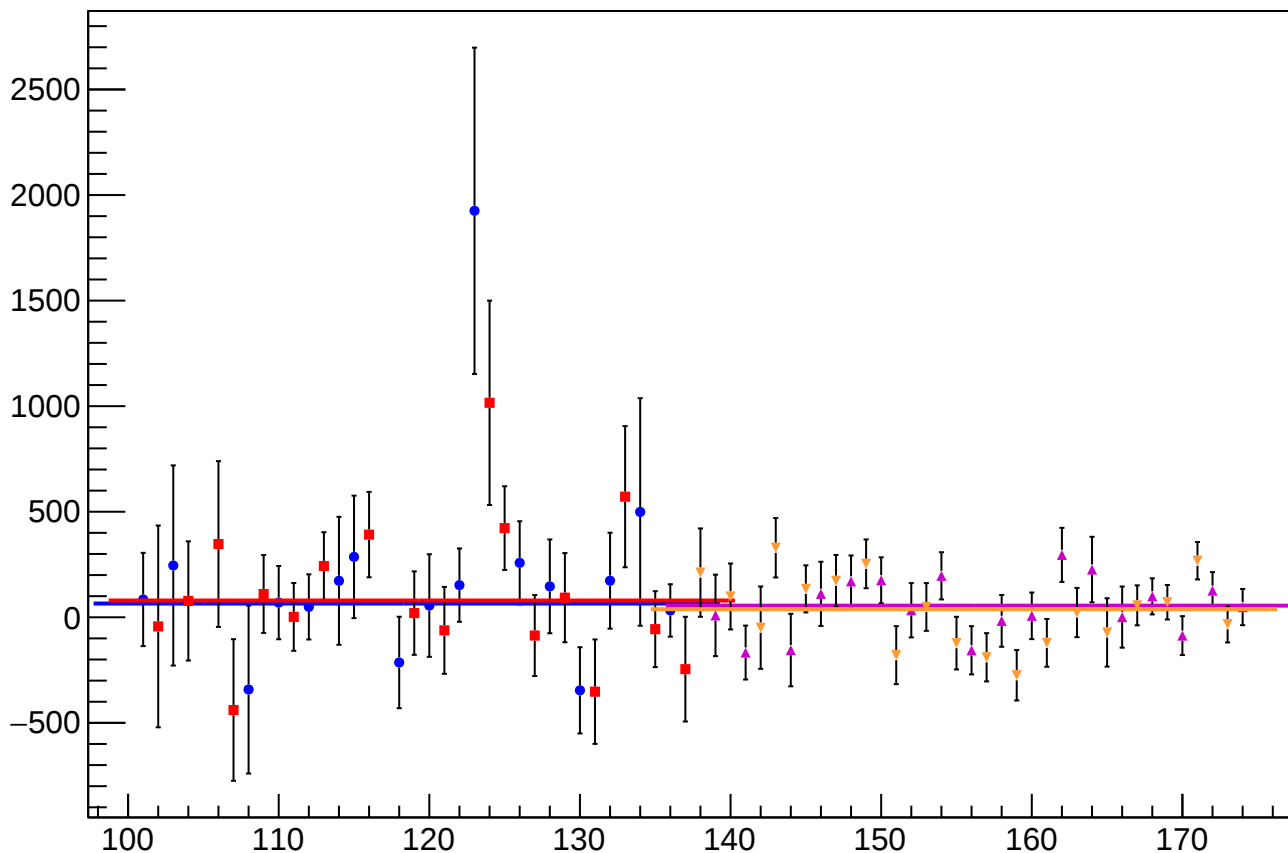
Right: 3714.186 $\pm$ 0.738  $\chi^2$ /NDF: 2098786.6/34

In: 2298.069 $\pm$ 0.371  $\chi^2$ /NDF:3253389.9/34

Out: 2315.530 $\pm$ 0.371  $\chi^2$ /NDF:3813208.9/36

All: 2306.789 $\pm$ 0.262  $\chi^2$ /NDF: 7067705.5/71

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 65.225 $\pm$ 52.700  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 38.323 $\pm$ 26.564  $\chi^2/\text{NDF}$ : 35.8/18

Right Out: 79.473 $\pm$ 52.344  $\chi^2/\text{NDF}$ : 22.2/17

Left In: 55.151 $\pm$ 27.187  $\chi^2/\text{NDF}$ : 20.6/17

Left: 46.541 $\pm$ 19.000  $\chi^2/\text{NDF}$ : 56.6/36

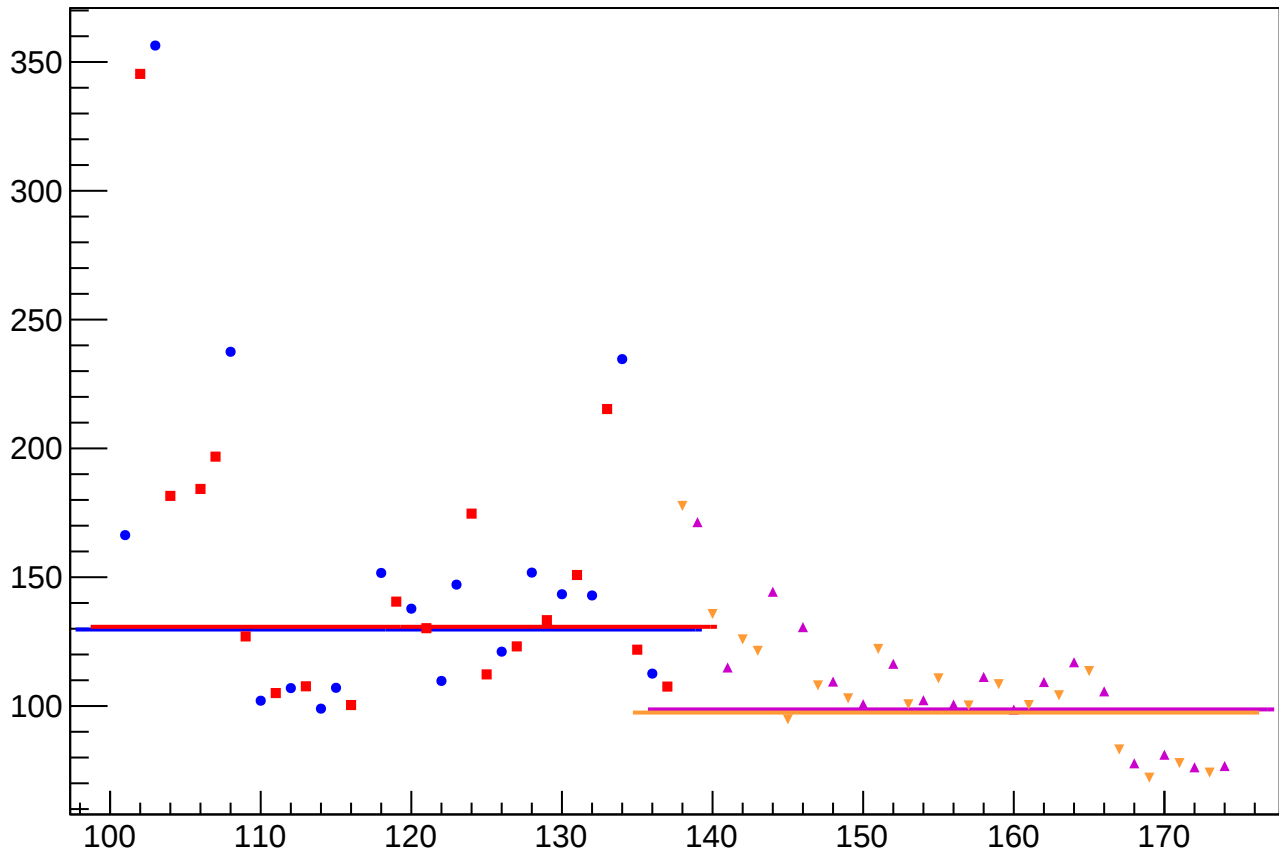
Right: 72.397 $\pm$ 37.138  $\chi^2/\text{NDF}$ : 37.9/34

In: 57.268 $\pm$ 24.162  $\chi^2/\text{NDF}$ : 36.3/34

Out: 46.750 $\pm$ 23.688  $\chi^2/\text{NDF}$ : 58.4/36

All: 51.905 $\pm$ 16.915  $\chi^2/\text{NDF}$ : 94.8/71

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 97.459 $\pm$ 0.019  $\chi^2$ /NDF:1150125.8/18

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

Left In: 98.681 $\pm$ 0.019  $\chi^2$ /NDF:1125850.5/17

Left: 98.056 $\pm$ 0.013  $\chi^2$ /NDF: 2278045.1/36

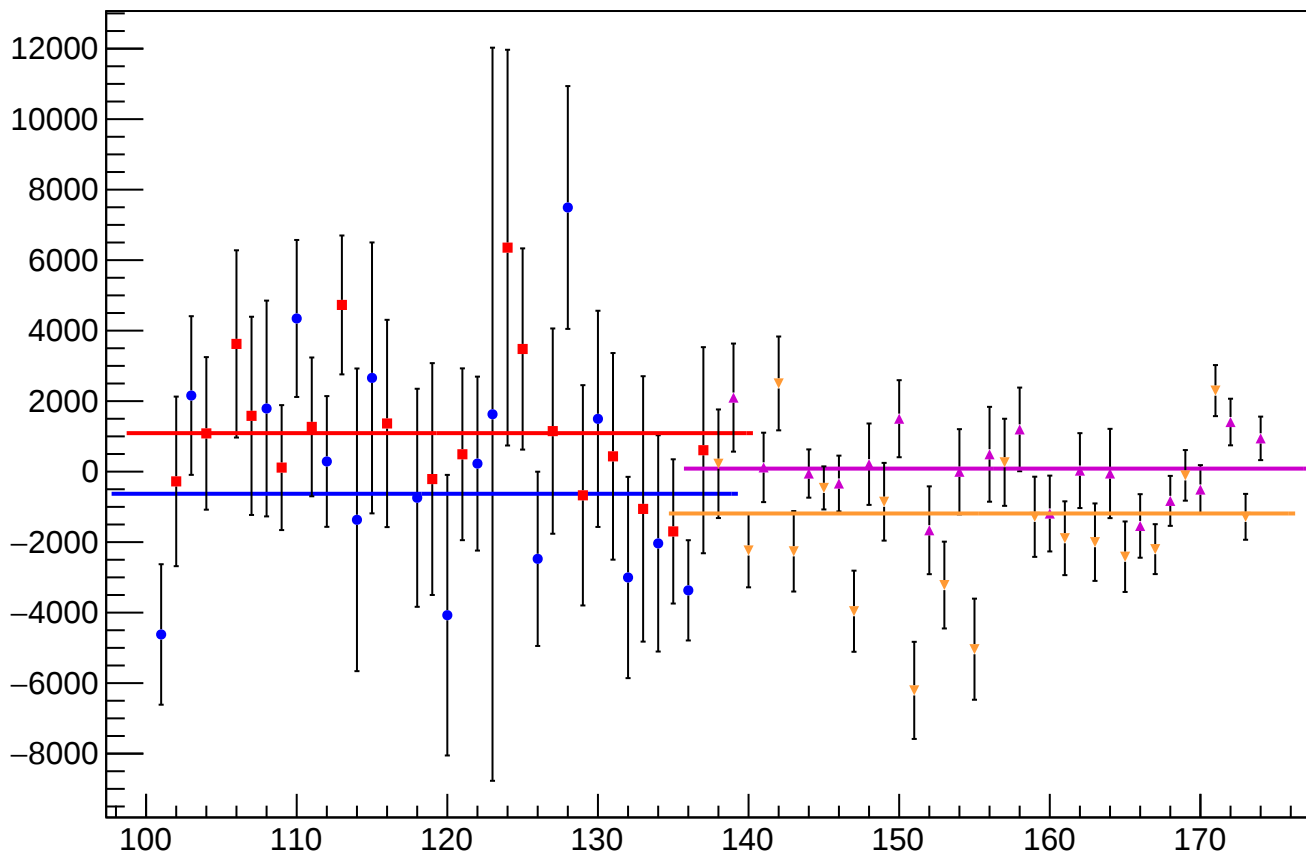
Right: 130.228 $\pm$ 0.026  $\chi^2$ /NDF: 1917619.9/34

In: 105.201 $\pm$ 0.017  $\chi^2$ /NDF:2662643.8/34

Out: 104.277 $\pm$ 0.017  $\chi^2$ /NDF:2721050.3/36

All: 104.730 $\pm$ 0.012  $\chi^2$ /NDF: 5385184.4/71

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



Right In: -628.175 $\pm$ 621.486  $\chi^2$ /NDF: 24.3/16

Left Out: -1187.471 $\pm$ 218.383  $\chi^2$ /NDF:72.3/18

Right Out: 1091.945 $\pm$ 599.483  $\chi^2$ /NDF: 9.4/17

Left In: 85.642 $\pm$ 213.404  $\chi^2$ /NDF:19.7/17

Left: -536.234 $\pm$ 152.629  $\chi^2$ /NDF: 109.4/36

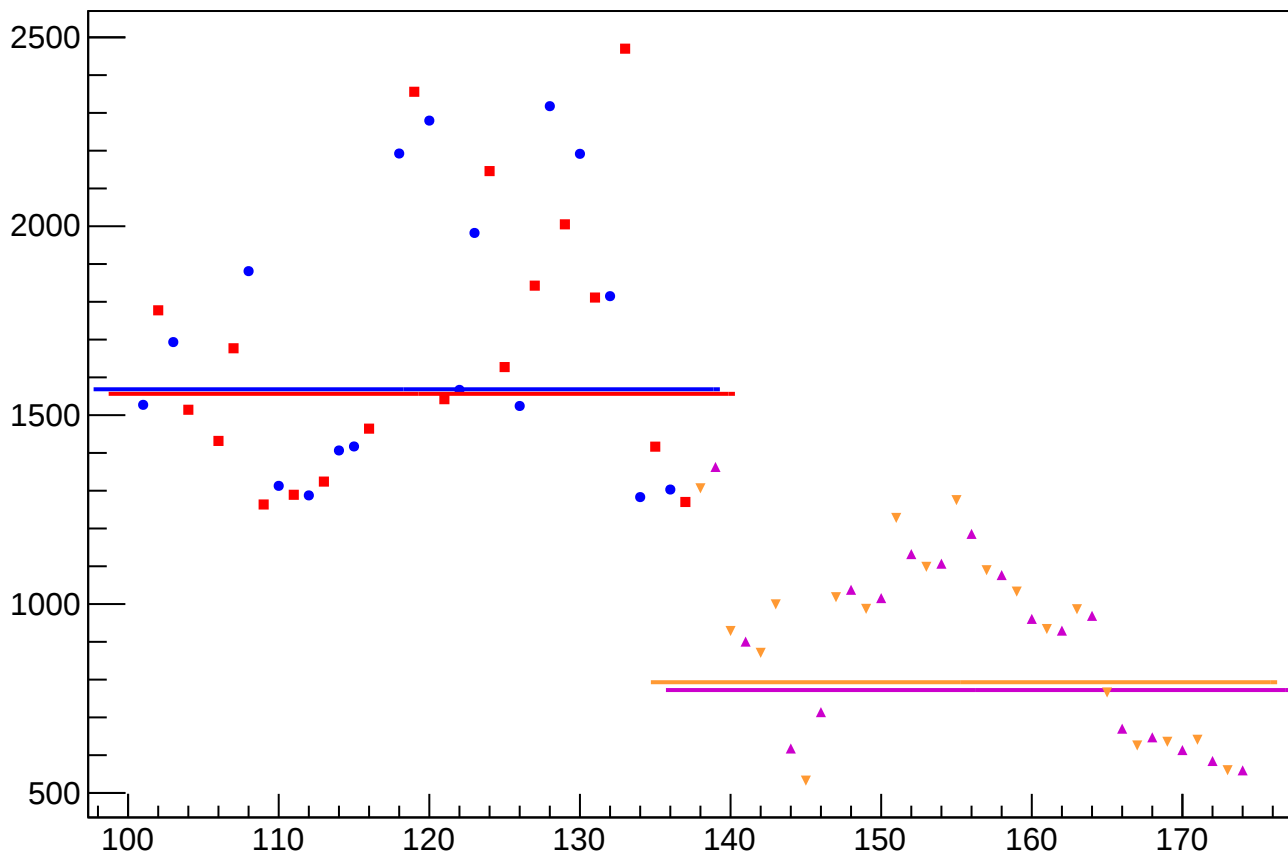
Right: 262.874 $\pm$ 431.468  $\chi^2$ /NDF: 37.6/34

In: 10.354 $\pm$ 201.836  $\chi^2$ /NDF:45.2/34

Out: -920.421 $\pm$ 205.192  $\chi^2$ /NDF:94.4/36

All: -447.359 $\pm$ 143.892  $\chi^2$ /NDF: 150.1/71

asym\_sam3\_correction\_rms vs Slug, Sign Corrected



Right In: 1568.480 $\pm$ 0.439  $\chi^2$ /NDF: 534197.6/16

Left Out: 793.086 $\pm$ 0.154  $\chi^2$ /NDF:2234433.6/18

Right Out: 1556.423 $\pm$ 0.424  $\chi^2$ /NDF: 510453.6/17

Left In: 772.379 $\pm$ 0.151  $\chi^2$ /NDF:2033762.4/17

Left: 782.494 $\pm$ 0.108  $\chi^2$ /NDF: 4277393.7/36

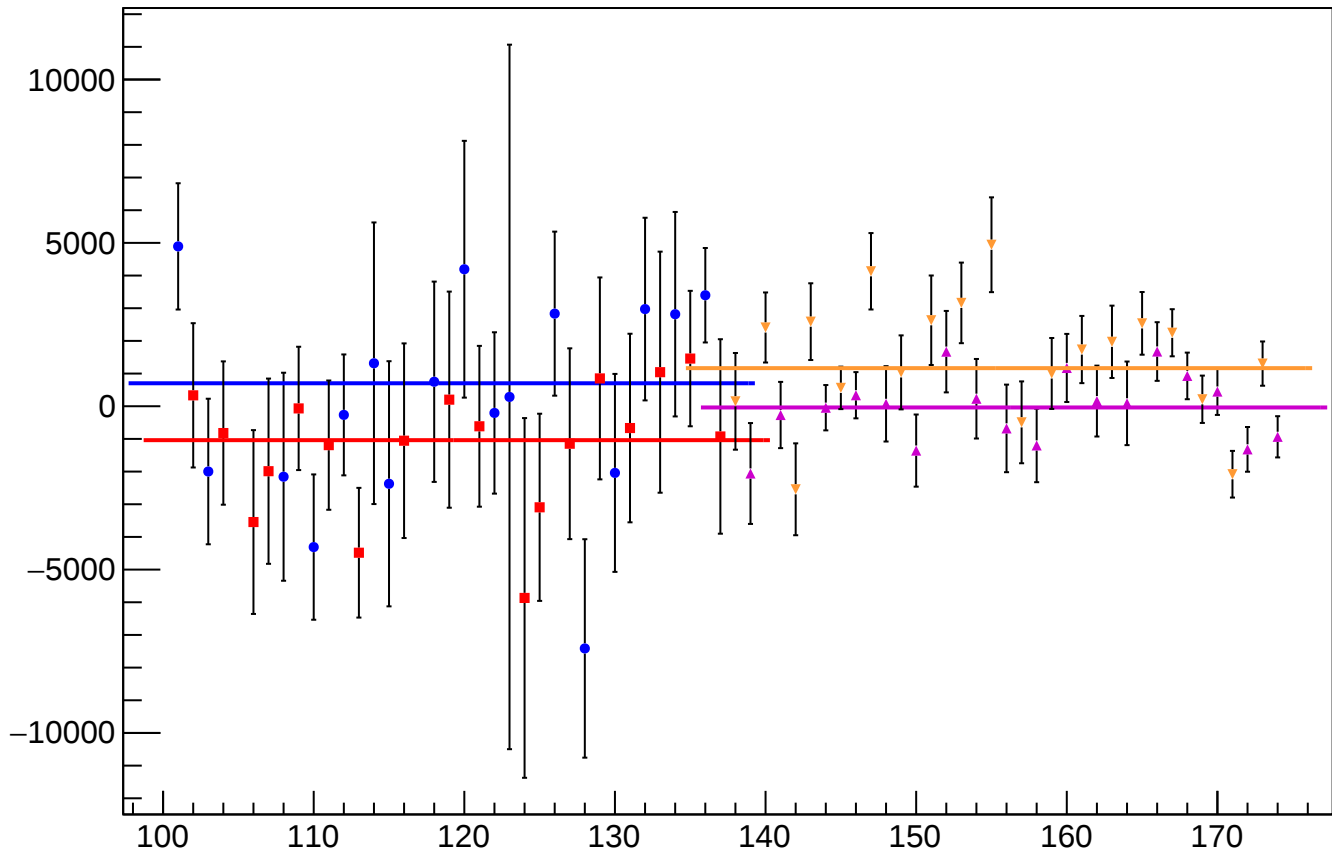
Right: 1562.235 $\pm$ 0.305  $\chi^2$ /NDF: 1045041.2/34

In: 856.345 $\pm$ 0.143  $\chi^2$ /NDF:5503562.3/34

Out: 882.516 $\pm$ 0.145  $\chi^2$ /NDF:5607702.2/36

All: 869.215 $\pm$ 0.102  $\chi^2$ /NDF: 11127800.3/73

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 703.057+/-620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1165.957+/-221.402  $\chi^2/\text{NDF}$ : 57.4/18

Right Out: -1038.423+/-604.250  $\chi^2/\text{NDF}$ : 8.2/17

Left In: -37.517+/-213.727  $\chi^2/\text{NDF}$ : 19.6/17

Left: 543.000+/-153.769  $\chi^2/\text{NDF}$ : 92.3/36

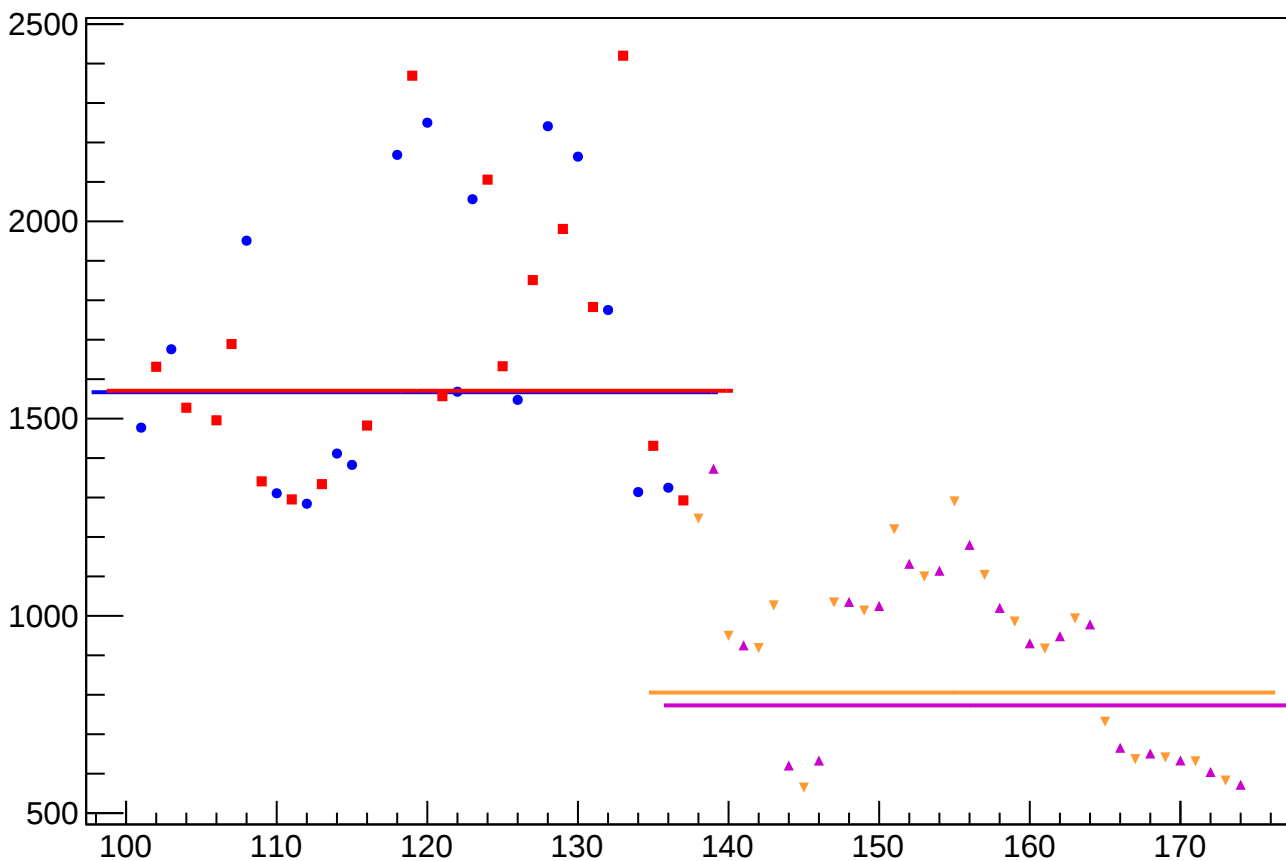
Right: -190.951+/-432.940  $\chi^2/\text{NDF}$ : 38.2/34

In: 41.000+/-202.080  $\chi^2/\text{NDF}$ : 46.8/34

Out: 905.039+/-207.886  $\chi^2/\text{NDF}$ : 77.4/36

All: 460.785+/-144.901  $\chi^2/\text{NDF}$ : 133.1/71

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1566.937+/-0.439  $\chi^2/\text{NDF}$ : 499846.2/16

Left Out: 805.668+/-0.157  $\chi^2/\text{NDF}$ : 2045003.7/18

Right Out: 1570.549+/-0.427  $\chi^2/\text{NDF}$ : 439261.0/17

Left In: 773.082+/-0.151  $\chi^2/\text{NDF}$ : 1970397.6/17

Left: 788.800+/-0.109  $\chi^2/\text{NDF}$ : 4037828.3/36

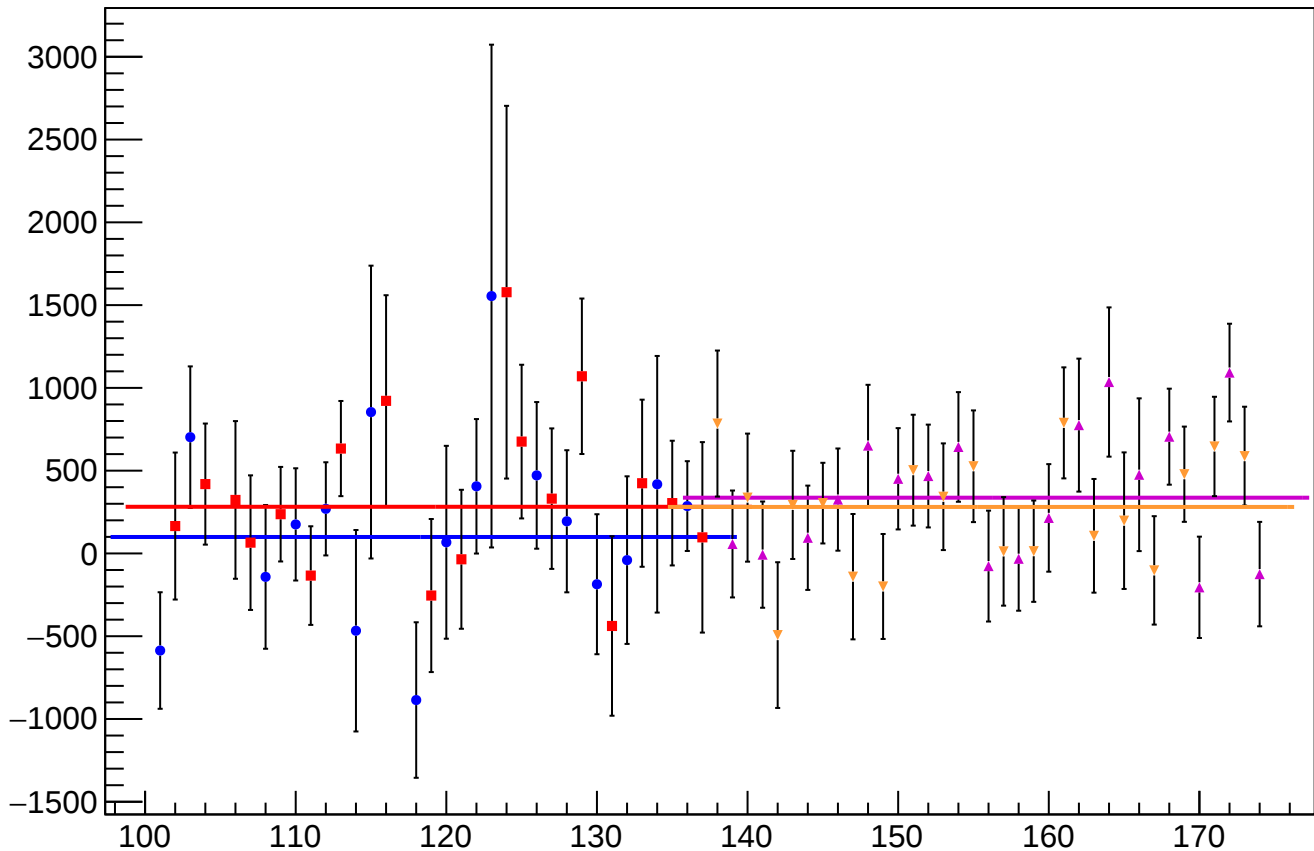
Right: 1568.791+/-0.306  $\chi^2/\text{NDF}$ : 939142.0/34

In: 857.248+/-0.143  $\chi^2/\text{NDF}$ : 5395675.1/34

Out: 896.202+/-0.147  $\chi^2/\text{NDF}$ : 5309623.3/36

All: 876.173+/-0.102  $\chi^2/\text{NDF}$ : 10741405.6/73

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 99.387 $\pm$ 103.463  $\chi^2$ /NDF: 15.9/16

Left Out: 280.846 $\pm$ 75.717  $\chi^2$ /NDF:17.4/18

Right Out: 281.830 $\pm$ 97.880  $\chi^2$ /NDF: 13.7/17

Left In: 336.715 $\pm$ 77.634  $\chi^2$ /NDF:24.6/17

Left: 308.082 $\pm$ 54.205  $\chi^2$ /NDF: 42.2/36

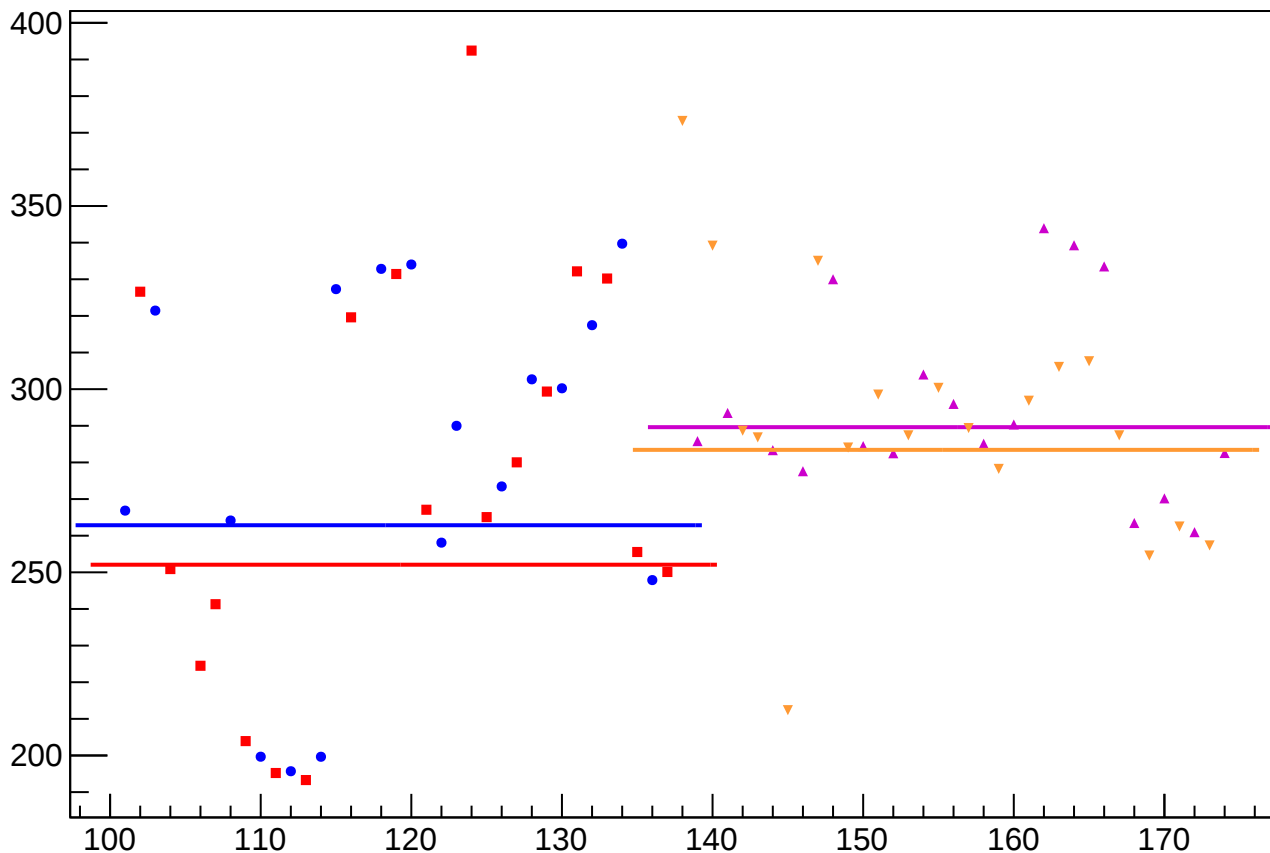
Right: 195.664 $\pm$ 71.104  $\chi^2$ /NDF: 31.3/34

In: 251.226 $\pm$ 62.097  $\chi^2$ /NDF:43.9/34

Out: 281.214 $\pm$ 59.889  $\chi^2$ /NDF:31.1/36

All: 266.762 $\pm$ 43.107  $\chi^2$ /NDF: 75.1/71

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 262.856 $\pm$ 0.073  $\chi^2/\text{NDF}$ : 411698.3/16

Left Out: 283.433 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 407094.0/18

Right Out: 252.079 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 515150.4/17

Left In: 289.628 $\pm$ 0.055  $\chi^2/\text{NDF}$ : 158295.3/17

Left: 286.453 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 571916.0/36

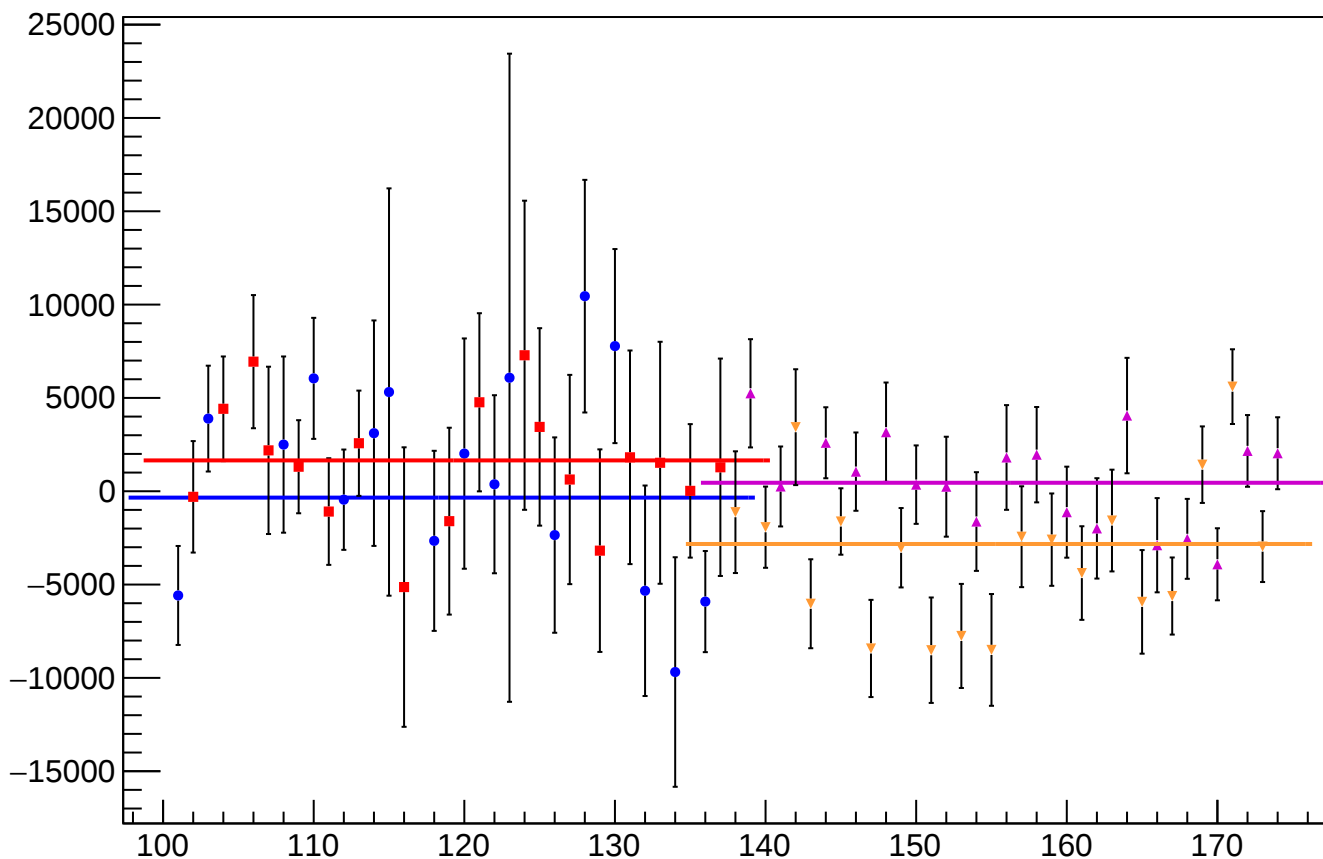
Right: 257.169 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 938300.0/34

In: 279.984 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 655665.1/34

Out: 271.695 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1050634.2/36

All: 275.690 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 1724764.5/71

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



Right In: -341.538+/-1004.635  $\chi^2/\text{NDF}$ : 24.4/16

Left Out: -2826.423+/-545.704  $\chi^2/\text{NDF}$ : 47.9/18

Right Out: 1651.954+/-929.858  $\chi^2/\text{NDF}$ : 7.9/17

Left In: 453.882+/-545.083  $\chi^2/\text{NDF}$ : 19.2/17

Left: -1184.403+/-385.651  $\chi^2/\text{NDF}$ : 85.2/36

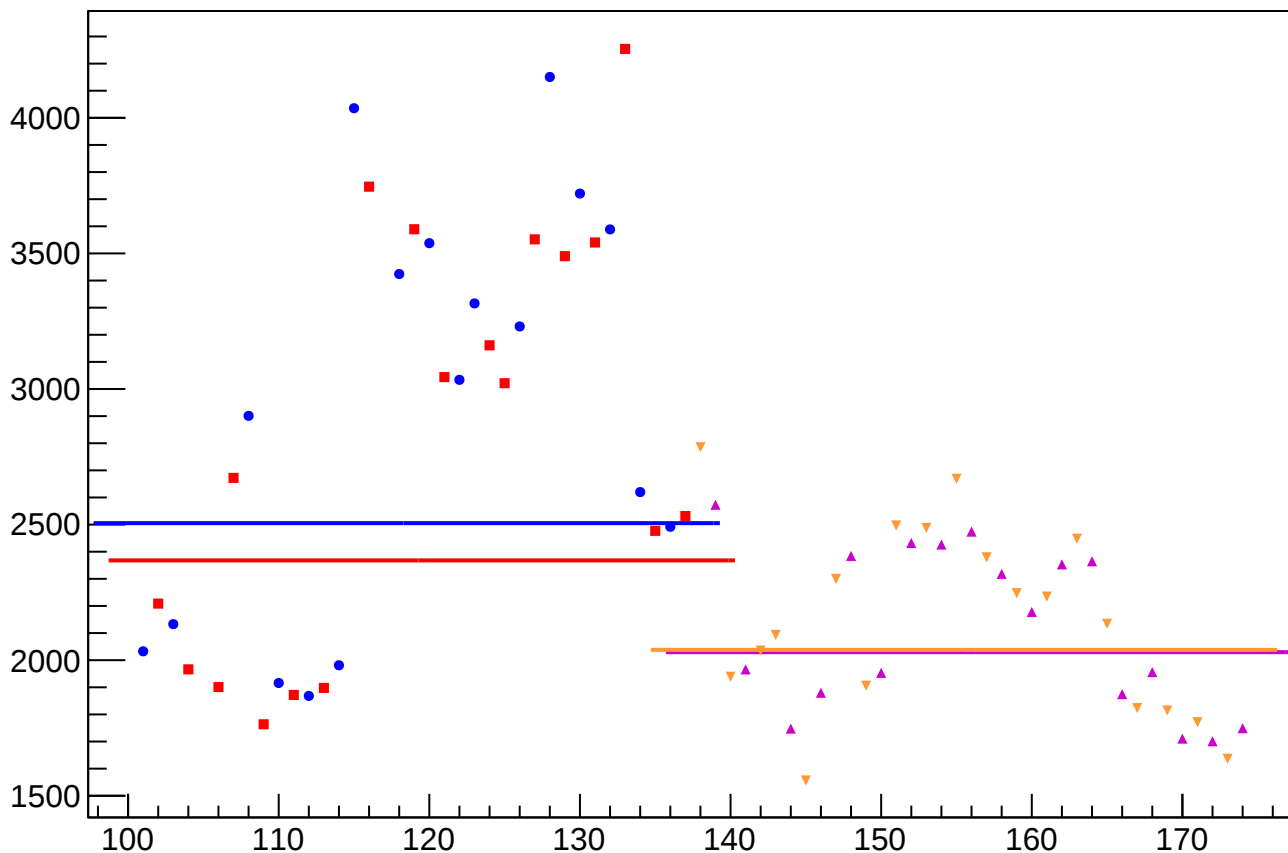
Right: 732.150+/-682.415  $\chi^2/\text{NDF}$ : 34.5/34

In: 272.980+/-479.106  $\chi^2/\text{NDF}$ : 44.1/34

Out: -1679.145+/-470.642  $\chi^2/\text{NDF}$ : 73.1/36

All: -720.479+/-335.746  $\chi^2/\text{NDF}$ : 125.7/71

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2038.078+/-0.386  $\chi^2/\text{NDF}$ : 754603.8/18

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

Left In: 2029.548+/-0.385  $\chi^2/\text{NDF}$ : 555505.5/17

Left: 2033.809+/-0.273  $\chi^2/\text{NDF}$ : 1310353.9/36

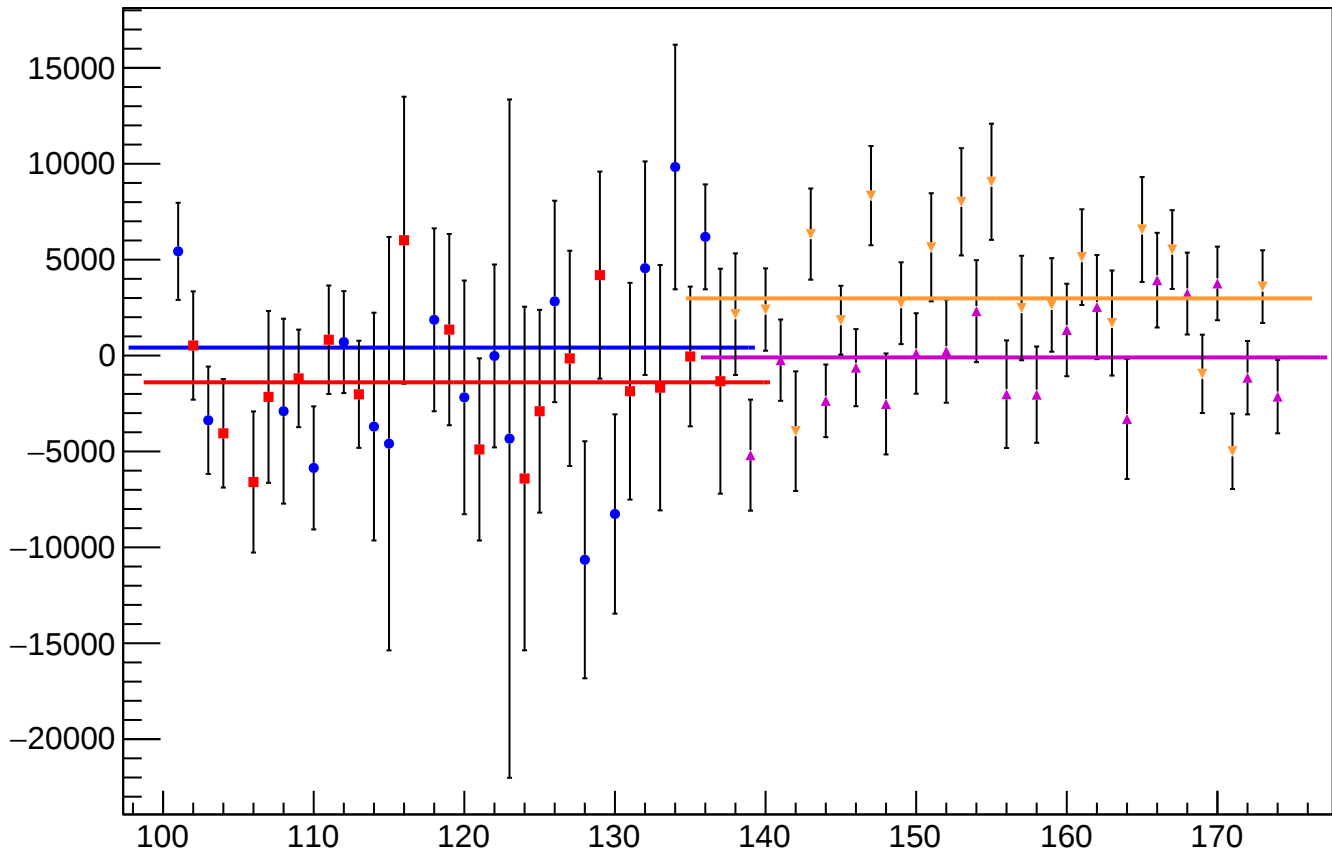
Right: 2431.366+/-0.483  $\chi^2/\text{NDF}$ : 1915141.0/34

In: 2137.755+/-0.339  $\chi^2/\text{NDF}$ : 1766189.2/34

Out: 2122.599+/-0.333  $\chi^2/\text{NDF}$ : 1972764.4/36

All: 2130.042+/-0.237  $\chi^2/\text{NDF}$ : 3739972.2/71

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 415.549 $\pm$ 994.913  $\chi^2$ /NDF: 24.5/16

Left Out: 2981.976 $\pm$ 543.726  $\chi^2$ /NDF:44.5/18

Right Out: -1394.660 $\pm$ 928.996  $\chi^2$ /NDF: 7.5/17

Left In: -97.748 $\pm$ 541.065  $\chi^2$ /NDF:20.3/17

Left: 1434.558 $\pm$ 383.528  $\chi^2$ /NDF: 80.9/36

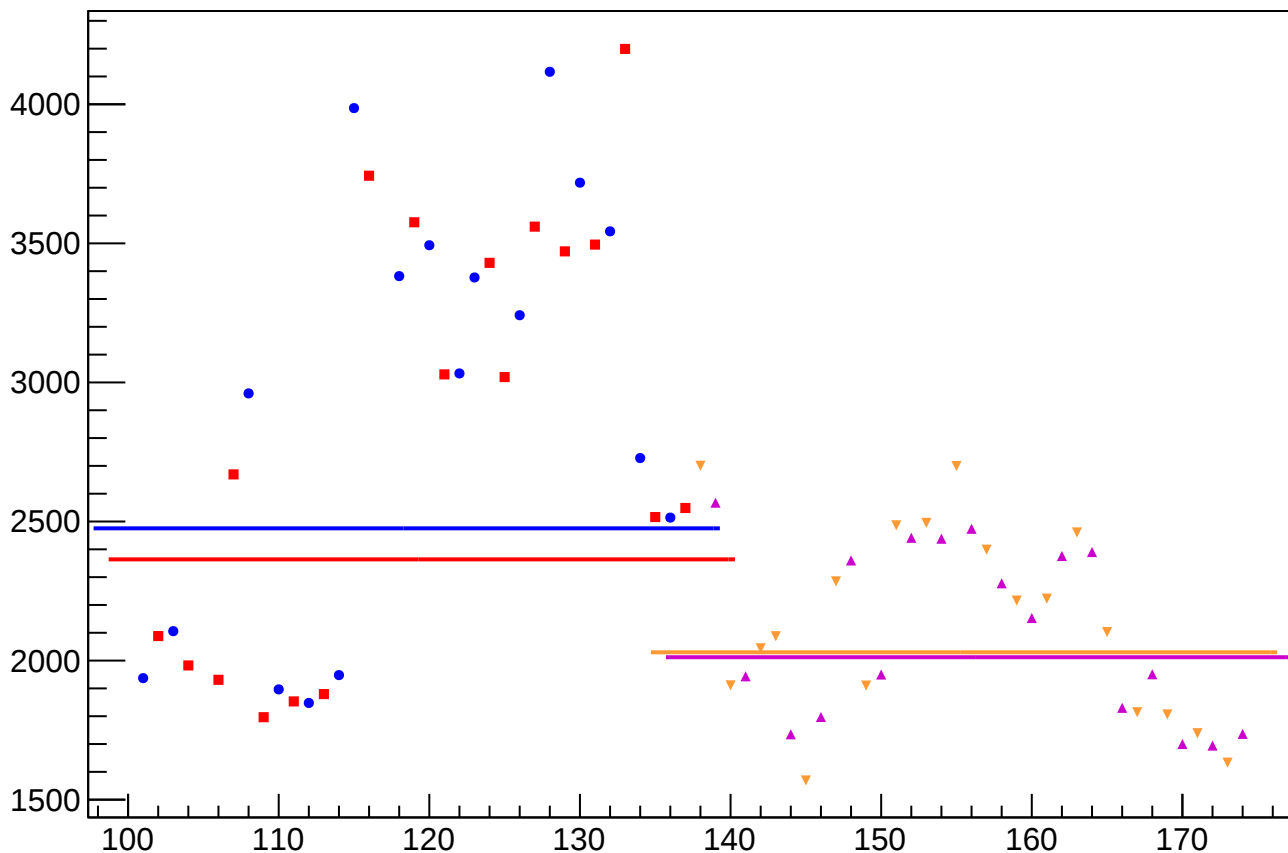
Right: -551.504 $\pm$ 679.008  $\chi^2$ /NDF: 33.8/34

In: 19.411 $\pm$ 475.322  $\chi^2$ /NDF:45.0/34

Out: 1865.265 $\pm$ 469.260  $\chi^2$ /NDF:68.5/36

All: 954.184 $\pm$ 333.940  $\chi^2$ /NDF: 121.2/71

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2475.435 $\pm$ 0.704  $\chi^2$ /NDF: 913073.5/16

Left Out: 2029.805 $\pm$ 0.384  $\chi^2$ /NDF: 748342.1/18

Right Out: 2363.907 $\pm$ 0.657  $\chi^2$ /NDF: 1026875.6/17

Left In: 2012.045 $\pm$ 0.383  $\chi^2$ /NDF: 591077.5/17

Left: 2020.882 $\pm$ 0.271  $\chi^2$ /NDF: 1340491.7/36

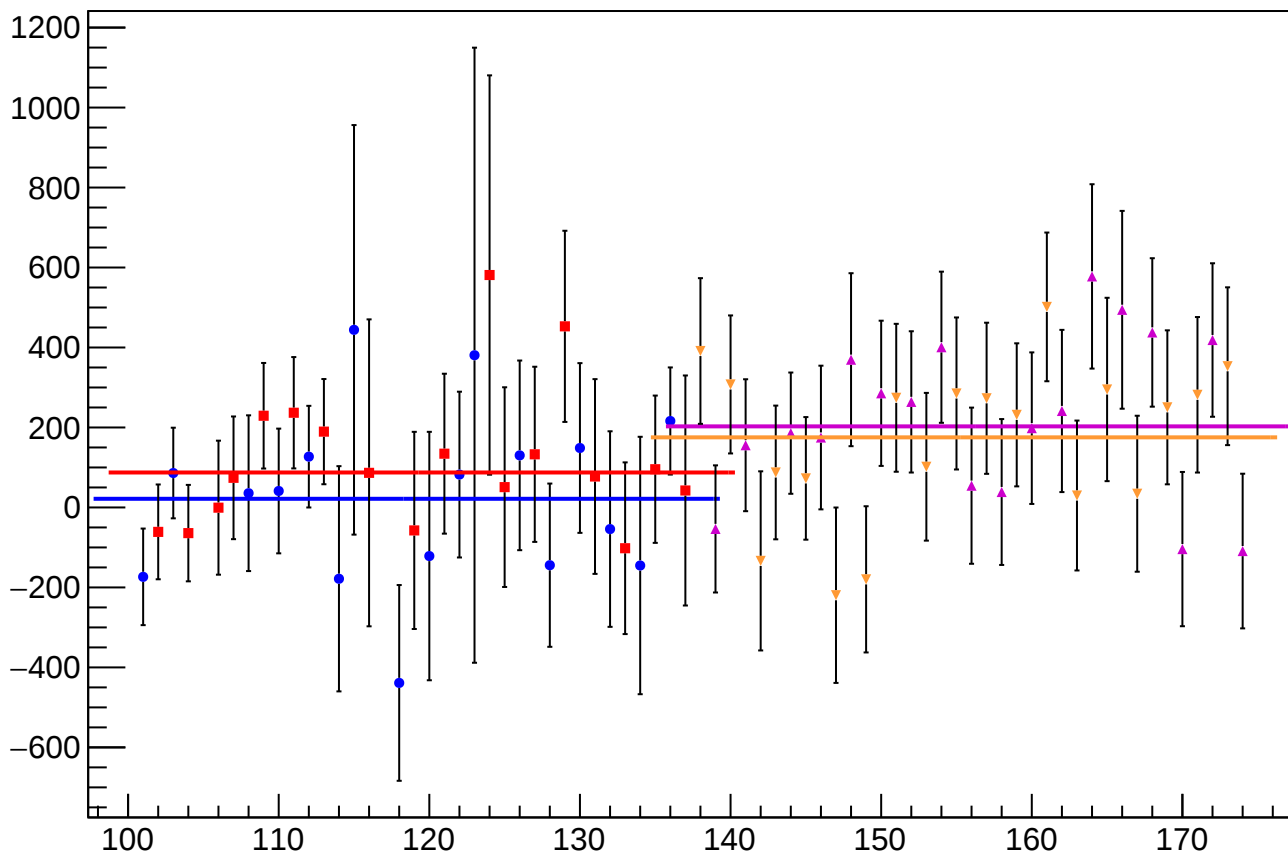
Right: 2415.854 $\pm$ 0.480  $\chi^2$ /NDF: 1953375.1/34

In: 2117.813 $\pm$ 0.336  $\chi^2$ /NDF: 1838985.4/34

Out: 2115.052 $\pm$ 0.332  $\chi^2$ /NDF: 1967893.1/36

All: 2116.415 $\pm$ 0.236  $\chi^2$ /NDF: 3806912.7/71

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 21.649 $\pm$ 45.157  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 175.296 $\pm$ 43.033  $\chi^2/\text{NDF}$ : 18.5/18

Right Out: 87.439 $\pm$ 41.826  $\chi^2/\text{NDF}$ : 10.9/17

Left In: 202.753 $\pm$ 44.024  $\chi^2/\text{NDF}$ : 18.2/17

Left: 188.712 $\pm$ 30.773  $\chi^2/\text{NDF}$ : 36.9/36

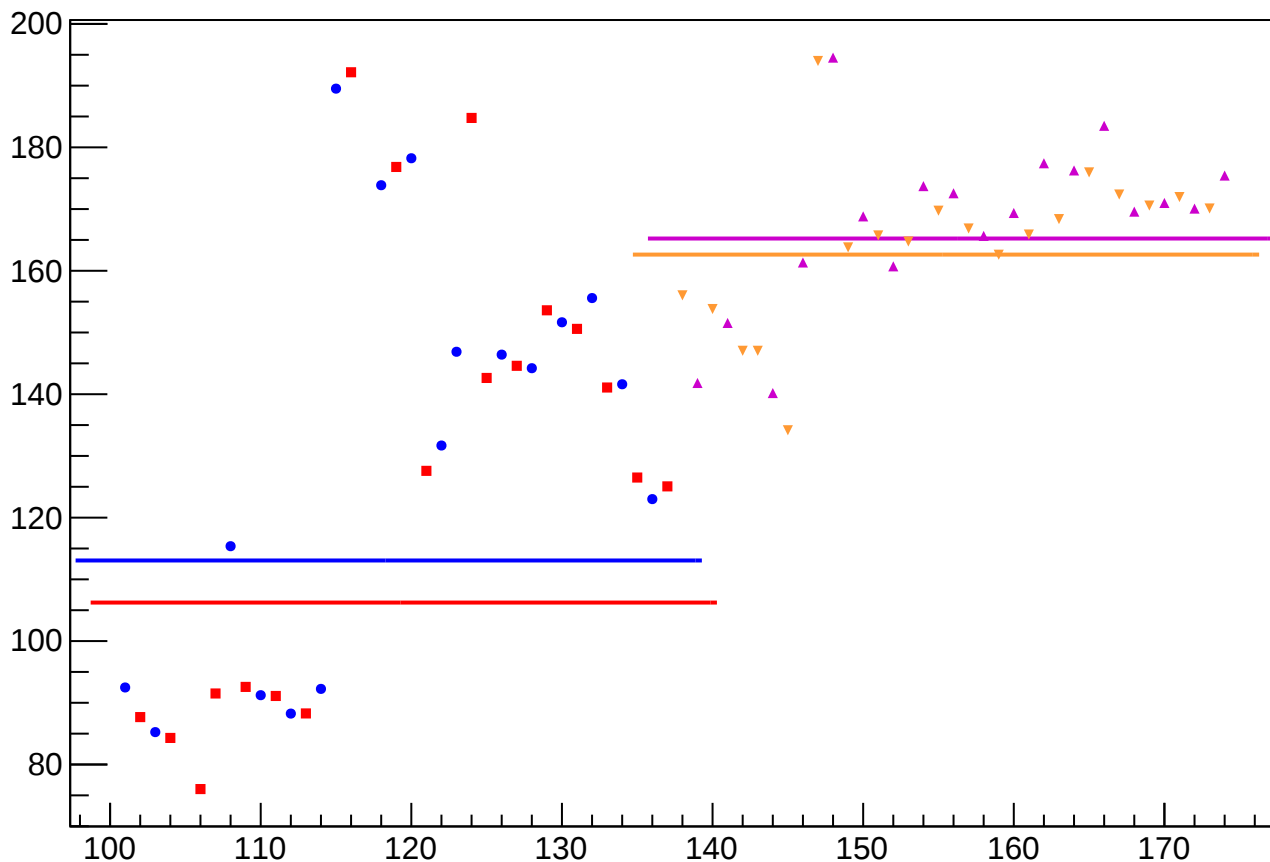
Right: 57.059 $\pm$ 30.686  $\chi^2/\text{NDF}$ : 24.7/34

In: 114.501 $\pm$ 31.522  $\chi^2/\text{NDF}$ : 39.0/34

Out: 130.118 $\pm$ 29.993  $\chi^2/\text{NDF}$ : 31.6/36

All: 122.698 $\pm$ 21.729  $\chi^2/\text{NDF}$ : 70.8/71

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 113.059 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 820795.9/16

Left Out: 162.624 $\pm$ 0.030  $\chi^2/\text{NDF}$ :174636.1/18

Right Out: 106.240 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 951702.9/17

Left In: 165.226 $\pm$ 0.031  $\chi^2/\text{NDF}$ :191707.8/17

Left: 163.895 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 369918.0/36

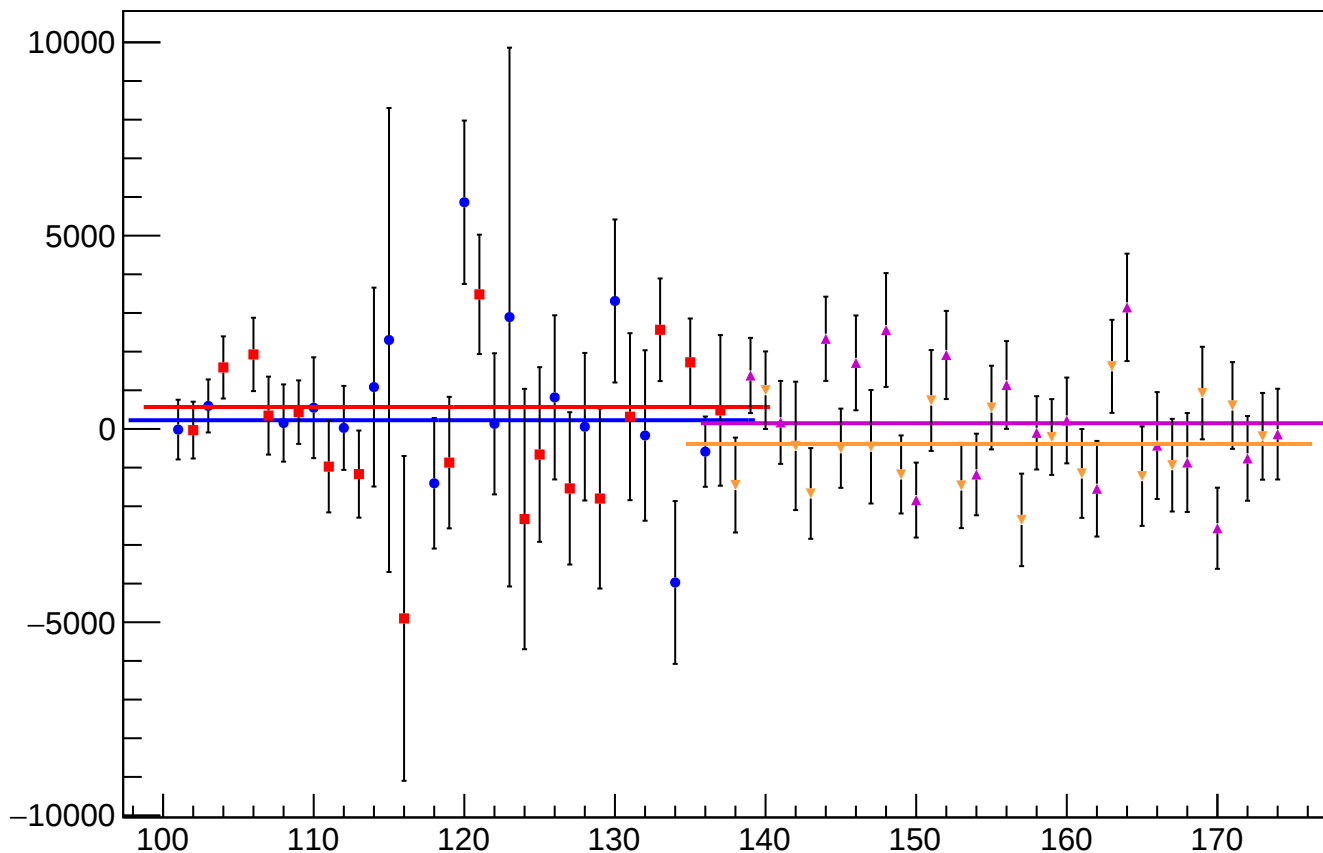
Right: 109.389 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 1797042.6/34

In: 139.805 $\pm$ 0.022  $\chi^2/\text{NDF}$ :2381007.0/34

Out: 133.630 $\pm$ 0.021  $\chi^2/\text{NDF}$ :2891883.1/36

All: 136.564 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 5313164.1/71

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



Right In: 225.635 $\pm$ 321.412  $\chi^2/\text{NDF}$ : 16.0/16

Left Out: -388.136 $\pm$ 265.477  $\chi^2/\text{NDF}$ :15.6/18

Right Out: 568.109 $\pm$ 290.500  $\chi^2/\text{NDF}$ : 21.0/17

Left In: 148.303 $\pm$ 266.307  $\chi^2/\text{NDF}$ :33.7/17

Left: -120.754 $\pm$ 188.013  $\chi^2/\text{NDF}$ : 51.3/36

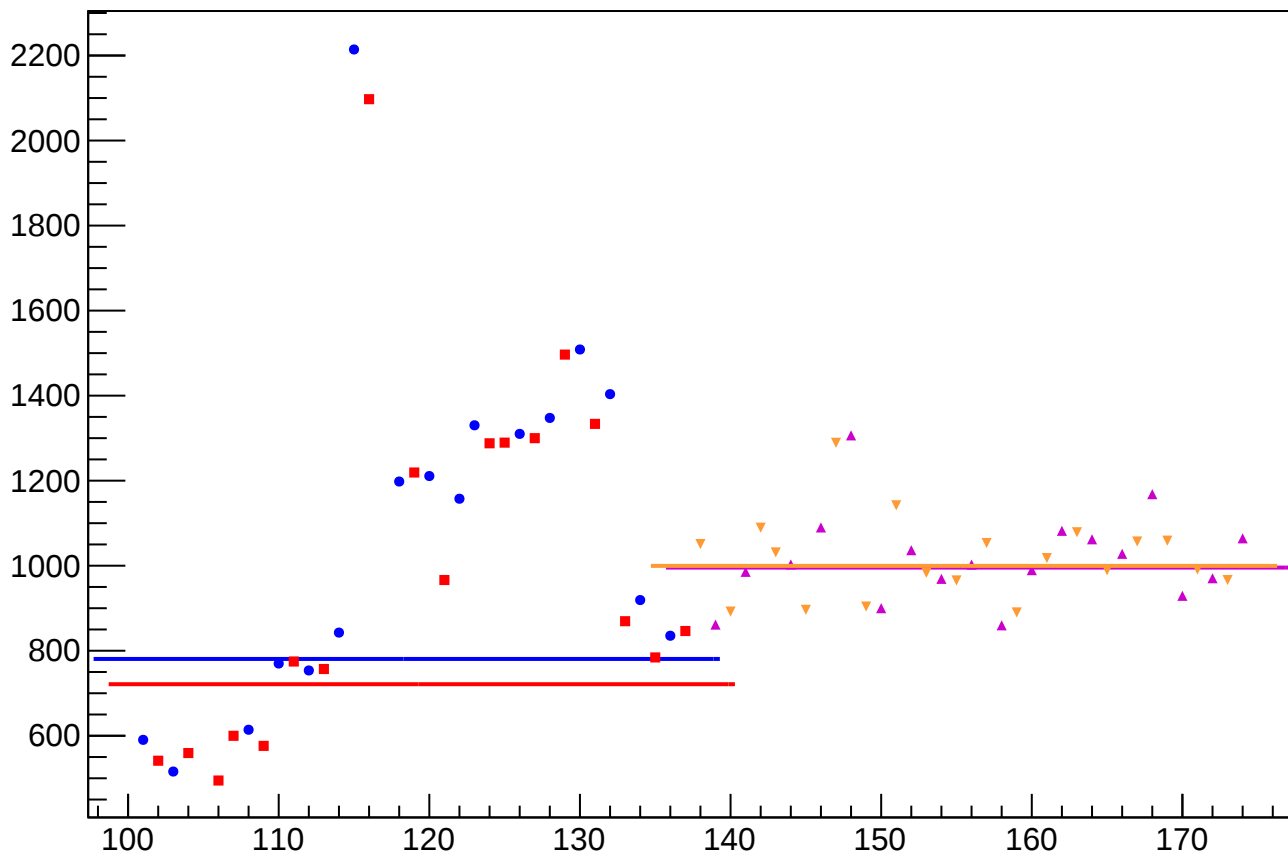
Right: 414.129 $\pm$ 215.517  $\chi^2/\text{NDF}$ : 37.6/34

In: 179.781 $\pm$ 205.064  $\chi^2/\text{NDF}$ :49.7/34

Out: 47.035 $\pm$ 195.971  $\chi^2/\text{NDF}$ :42.4/36

All: 110.400 $\pm$ 141.678  $\chi^2/\text{NDF}$ : 92.4/71

asym\_sam5\_correction\_rms vs Slug, Sign Corrected



Right In: 780.700+/-0.227  $\chi^2/\text{NDF}$ : 1609510.2/16

Left Out: 999.585+/-0.188  $\chi^2/\text{NDF}$ : 225894.5/18

Right Out: 721.264+/-0.205  $\chi^2/\text{NDF}$ : 1626627.9/17

Left In: 995.578+/-0.188  $\chi^2/\text{NDF}$ : 271655.4/17

Left: 997.588+/-0.133  $\chi^2/\text{NDF}$ : 497776.9/36

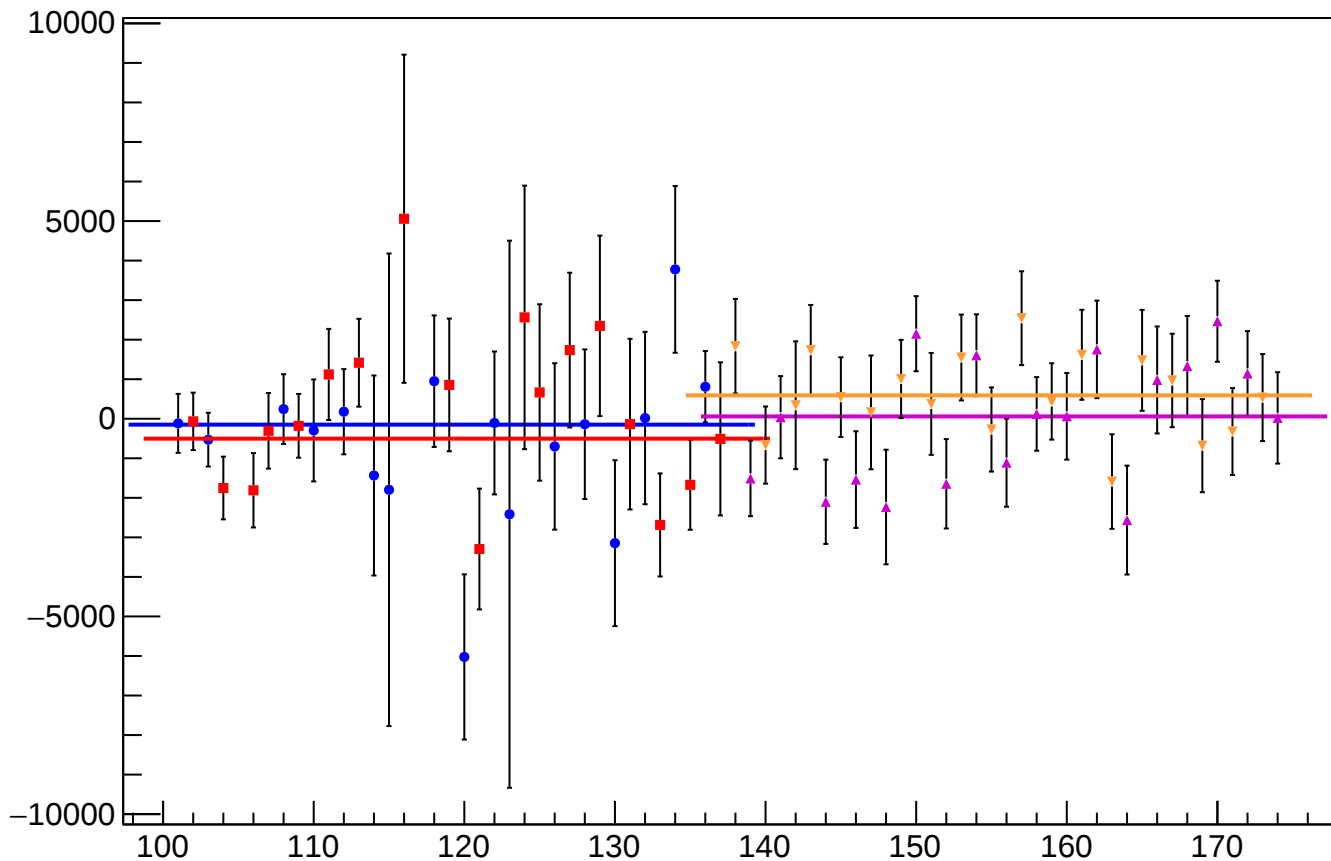
Right: 747.987+/-0.152  $\chi^2/\text{NDF}$ : 3273780.9/34

In: 908.111+/-0.145  $\chi^2/\text{NDF}$ : 2411200.2/34

Out: 872.925+/-0.139  $\chi^2/\text{NDF}$ : 2852890.3/36

All: 889.721+/-0.100  $\chi^2/\text{NDF}$ : 5294865.0/71

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}: 16.1/16$

Left Out:  $591.622 \pm 261.008$   $\chi^2/\text{NDF}: 14.8/18$

Right Out:  $-503.162 \pm 285.781$   $\chi^2/\text{NDF}: 23.6/17$

Left In:  $58.763 \pm 261.797$   $\chi^2/\text{NDF}: 35.0/17$

Left:  $325.996 \pm 184.839$   $\chi^2/\text{NDF}: 51.9/36$

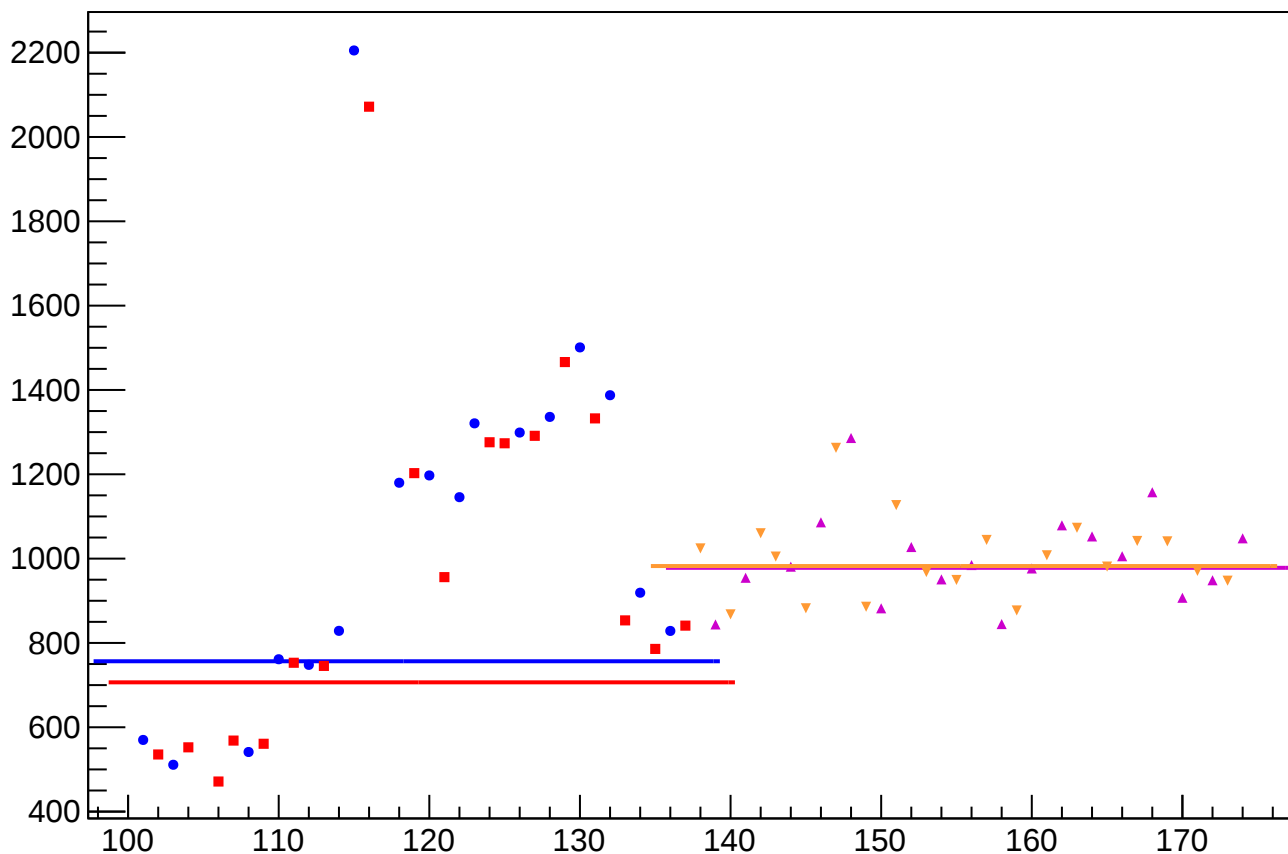
Right:  $-342.200 \pm 211.034$   $\chi^2/\text{NDF}: 40.4/34$

In:  $-26.835 \pm 200.804$   $\chi^2/\text{NDF}: 51.4/34$

Out:  $93.728 \pm 192.725$   $\chi^2/\text{NDF}: 46.4/36$

All:  $35.921 \pm 139.045$   $\chi^2/\text{NDF}: 98.0/71$

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.539 $\pm$ 0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 982.367 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 231553.7/18

Right Out: 706.550 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 1670007.9/17

Left In: 978.158 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 291767.3/17

Left: 980.269 $\pm$ 0.131  $\chi^2/\text{NDF}$ : 523580.2/36

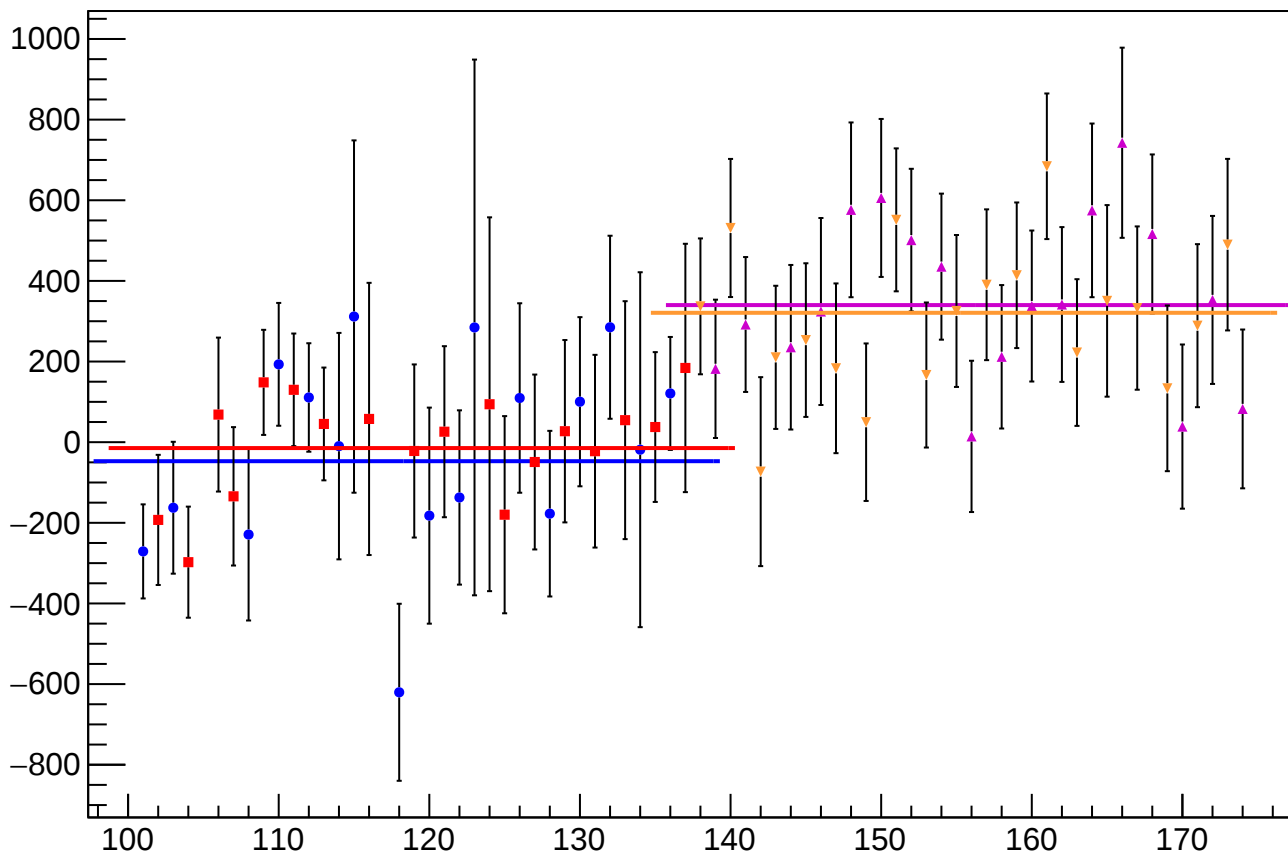
Right: 729.280 $\pm$ 0.149  $\chi^2/\text{NDF}$ : 3411474.4/34

In: 886.922 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 2595438.8/34

Out: 856.929 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 2917274.4/36

All: 871.310 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 5535939.5/71

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -47.157 $\pm$ 47.269  $\chi^2/\text{NDF}$ : 21.9/16

Left Out: 320.893 $\pm$ 43.896  $\chi^2/\text{NDF}$ :15.9/18

Right Out: -14.620 $\pm$ 44.849  $\chi^2/\text{NDF}$ : 10.1/17

Left In: 340.023 $\pm$ 45.836  $\chi^2/\text{NDF}$ :17.7/17

Left: 330.045 $\pm$ 31.703  $\chi^2/\text{NDF}$ : 33.7/36

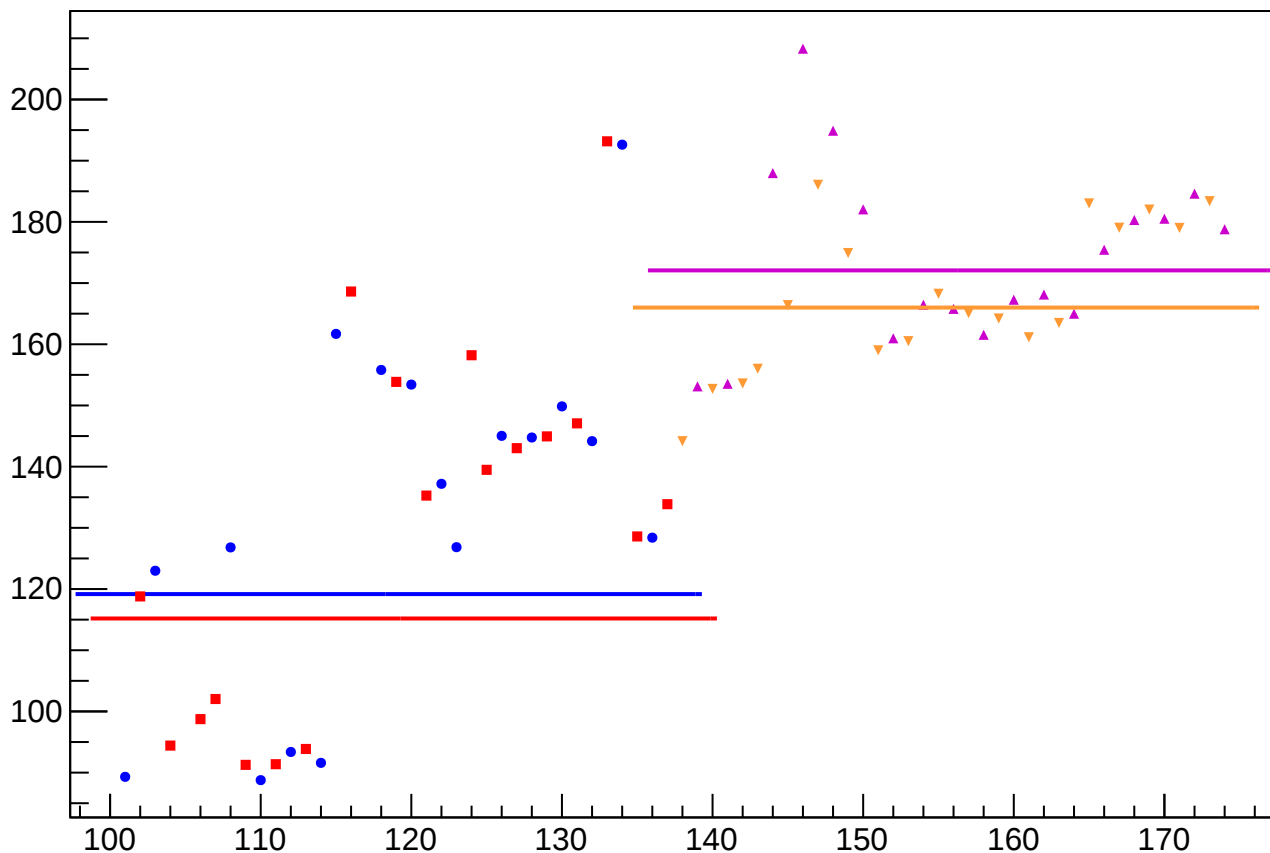
Right: -30.035 $\pm$ 32.535  $\chi^2/\text{NDF}$ : 32.3/34

In: 152.388 $\pm$ 32.906  $\chi^2/\text{NDF}$ :74.1/34

Out: 156.739 $\pm$ 31.371  $\chi^2/\text{NDF}$ :54.6/36

All: 154.667 $\pm$ 22.706  $\chi^2/\text{NDF}$ : 128.8/71

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 119.175+/-0.033  $\chi^2/\text{NDF}$ : 615304.2/16

Left Out: 165.998+/-0.031  $\chi^2/\text{NDF}$ :139627.7/18

Right Out: 115.188+/-0.032  $\chi^2/\text{NDF}$ : 675564.7/17

Left In: 172.073+/-0.032  $\chi^2/\text{NDF}$ :177548.6/17

Left: 168.904+/-0.022  $\chi^2/\text{NDF}$ : 335503.6/36

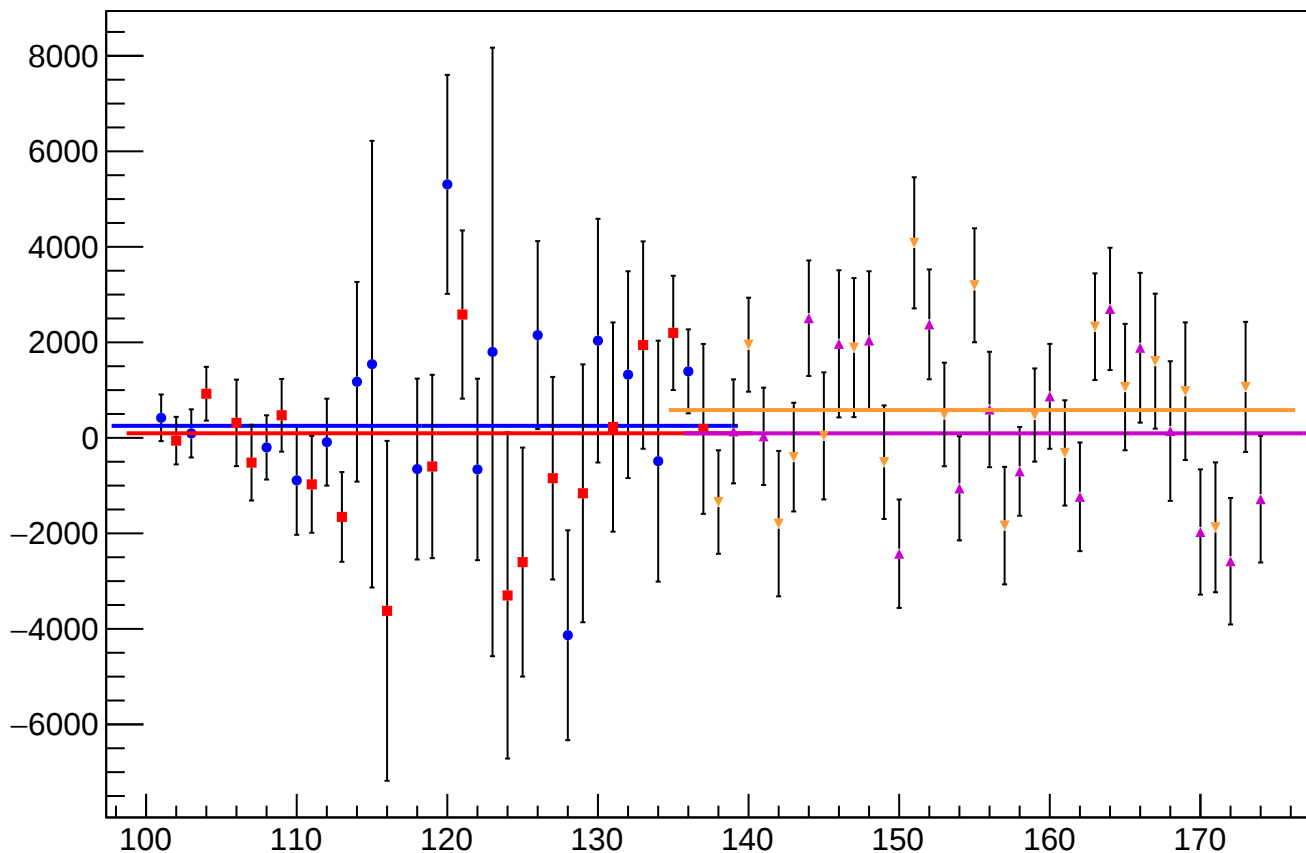
Right: 117.077+/-0.023  $\chi^2/\text{NDF}$ : 1298359.0/34

In: 146.438+/-0.023  $\chi^2/\text{NDF}$ :2083755.2/34

Out: 141.138+/-0.022  $\chi^2/\text{NDF}$ :2126249.0/36

All: 143.662+/-0.016  $\chi^2/\text{NDF}$ : 4237180.1/71

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



Right In: 251.733+/-252.819  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 582.408+/-278.618  $\chi^2/\text{NDF}$ : 32.5/18

Right Out: 95.805+/-245.748  $\chi^2/\text{NDF}$ : 17.5/17

Left In: 94.869+/-283.900  $\chi^2/\text{NDF}$ : 33.1/17

Left: 343.217+/-198.854  $\chi^2/\text{NDF}$ : 67.1/36

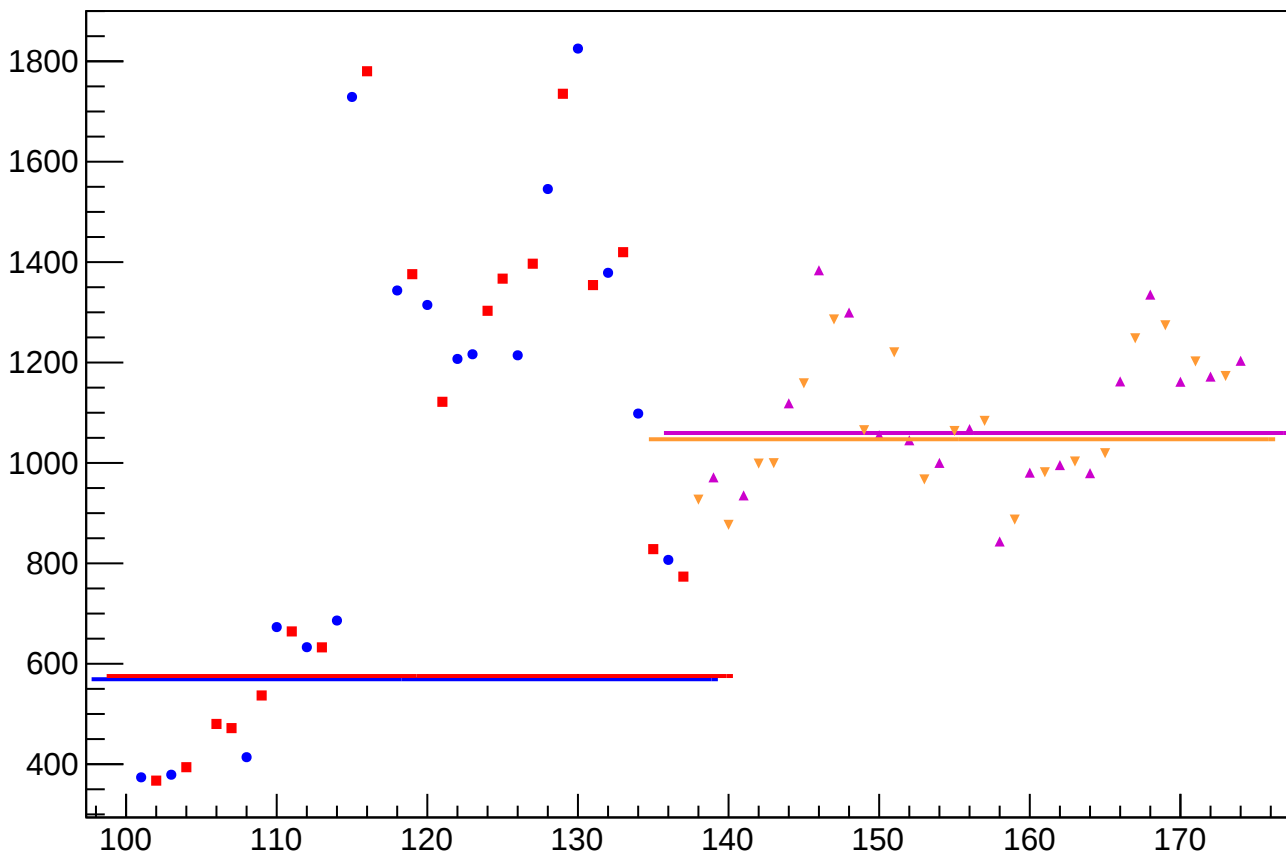
Right: 171.557+/-176.217  $\chi^2/\text{NDF}$ : 32.5/34

In: 182.354+/-188.806  $\chi^2/\text{NDF}$ : 48.1/34

Out: 308.723+/-184.301  $\chi^2/\text{NDF}$ : 51.7/36

All: 247.064+/-131.884  $\chi^2/\text{NDF}$ : 100.0/71

asym\_sam6\_correction\_rms vs Slug, Sign Corrected



Right In: 569.200 $\pm$ 0.179  $\chi^2$ /NDF: 3267047.1/16

Left Out: 1047.170 $\pm$ 0.197  $\chi^2$ /NDF: 401401.6/18

Right Out: 575.584 $\pm$ 0.174  $\chi^2$ /NDF: 3058273.5/17

Left In: 1059.651 $\pm$ 0.201  $\chi^2$ /NDF: 459528.2/17

Left: 1053.293 $\pm$ 0.141  $\chi^2$ /NDF: 862899.0/36

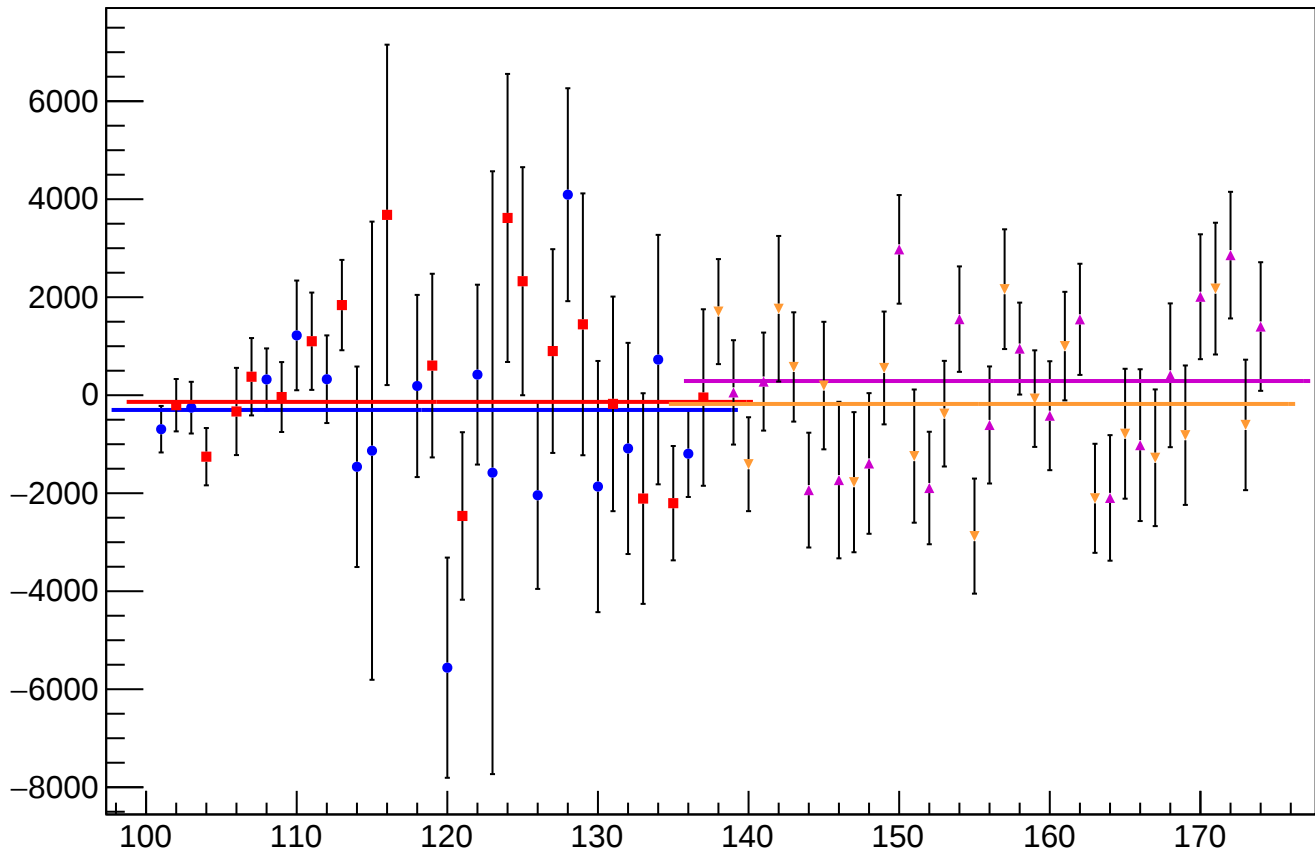
Right: 572.482 $\pm$ 0.125  $\chi^2$ /NDF: 6325976.2/34

In: 786.119 $\pm$ 0.134  $\chi^2$ /NDF: 7055494.9/34

Out: 781.931 $\pm$ 0.130  $\chi^2$ /NDF: 6682313.1/36

All: 783.974 $\pm$ 0.093  $\chi^2$ /NDF: 13738311.9/70

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -300.652+/-250.302  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -178.067+/-275.294  $\chi^2/\text{NDF}$ : 26.6/18

Right Out: -136.107+/-247.692  $\chi^2/\text{NDF}$ : 20.9/17

Left In: 289.801+/-281.347  $\chi^2/\text{NDF}$ : 30.9/17

Left: 50.780+/-196.768  $\chi^2/\text{NDF}$ : 58.9/36

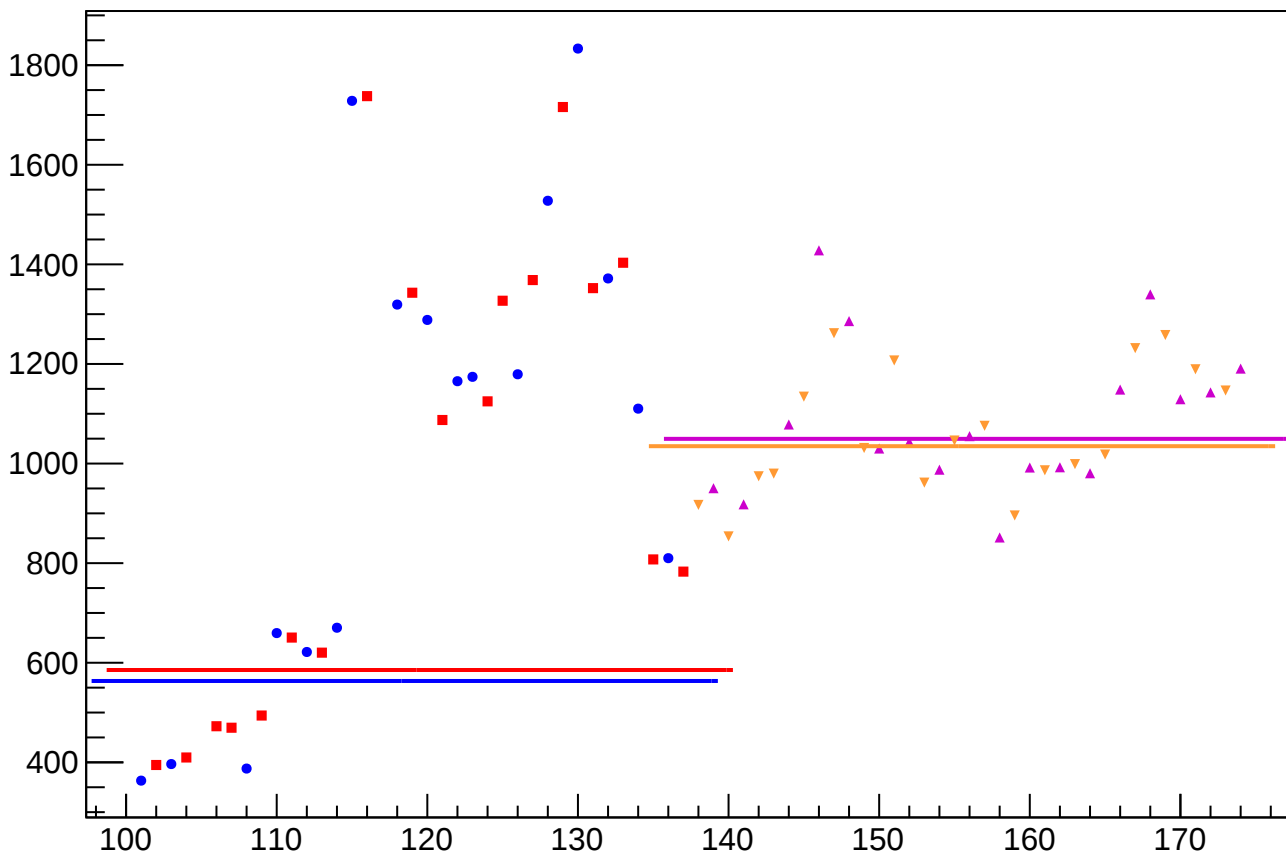
Right: -217.517+/-176.060  $\chi^2/\text{NDF}$ : 37.8/34

In: -39.787+/-187.007  $\chi^2/\text{NDF}$ : 50.0/34

Out: -154.879+/-184.132  $\chi^2/\text{NDF}$ : 47.5/36

All: -98.224+/-131.206  $\chi^2/\text{NDF}$ : 97.7/71

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 563.393+/-0.177  $\chi^2/\text{NDF}$ : 3259045.7/16

Left Out: 1034.881+/-0.195  $\chi^2/\text{NDF}$ : 385353.0/18

Right Out: 585.438+/-0.175  $\chi^2/\text{NDF}$ : 2818143.7/17

Left In: 1049.620+/-0.199  $\chi^2/\text{NDF}$ : 460185.5/17

Left: 1042.091+/-0.139  $\chi^2/\text{NDF}$ : 848342.8/36

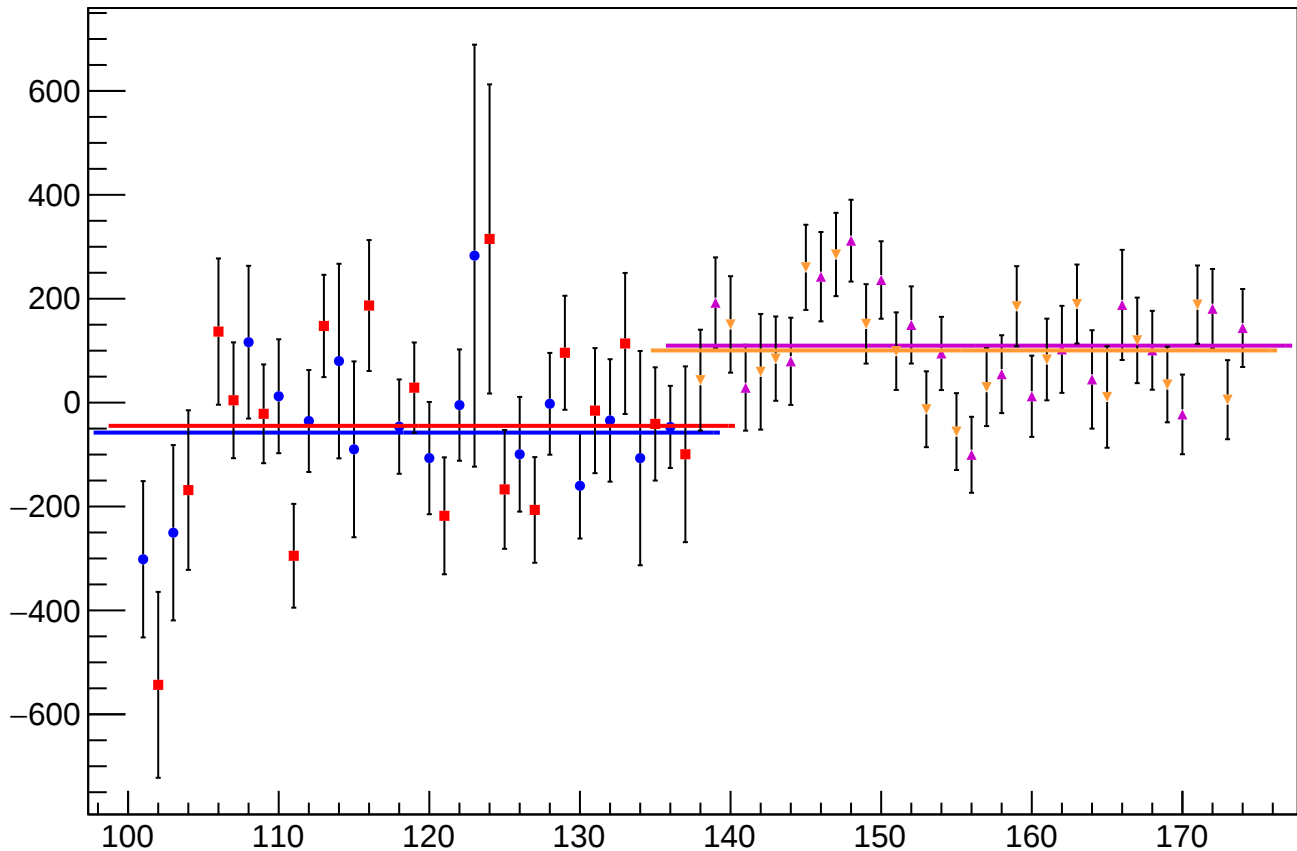
Right: 574.531+/-0.124  $\chi^2/\text{NDF}$ : 6085027.9/34

In: 778.211+/-0.132  $\chi^2/\text{NDF}$ : 7053569.3/34

Out: 786.505+/-0.130  $\chi^2/\text{NDF}$ : 6149408.2/36

All: 782.422+/-0.093  $\chi^2/\text{NDF}$ : 13204974.9/70

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -57.709 $\pm$ 28.693  $\chi^2$ /NDF: 9.1/16

Left Out: 100.454 $\pm$ 18.412  $\chi^2$ /NDF:25.4/18

Right Out: -44.693 $\pm$ 27.711  $\chi^2$ /NDF: 35.2/17

Left In: 109.657 $\pm$ 18.760  $\chi^2$ /NDF:29.6/17

Left: 104.969 $\pm$ 13.141  $\chi^2$ /NDF: 55.1/36

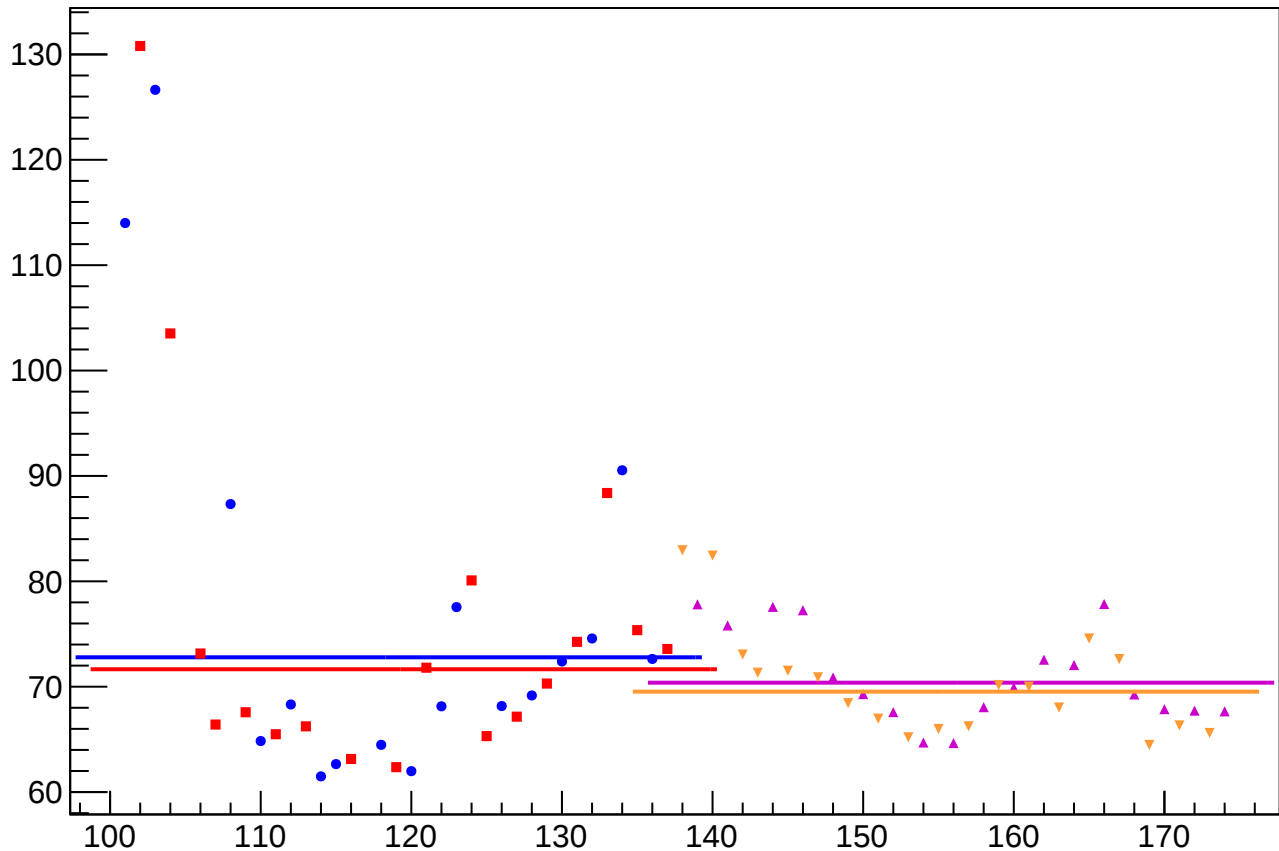
Right: -50.974 $\pm$ 19.933  $\chi^2$ /NDF: 44.4/34

In: 59.538 $\pm$ 15.702  $\chi^2$ /NDF:62.6/34

Out: 56.000 $\pm$ 15.336  $\chi^2$ /NDF:79.6/36

All: 57.728 $\pm$ 10.971  $\chi^2$ /NDF: 142.2/71

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 72.790 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 464772.9/16

Left Out: 69.533 $\pm$ 0.013  $\chi^2/\text{NDF}$ :127517.5/18

Right Out: 71.655 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 404376.9/17

Left In: 70.382 $\pm$ 0.013  $\chi^2/\text{NDF}$ :100722.7/17

Left: 69.949 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 230326.4/36

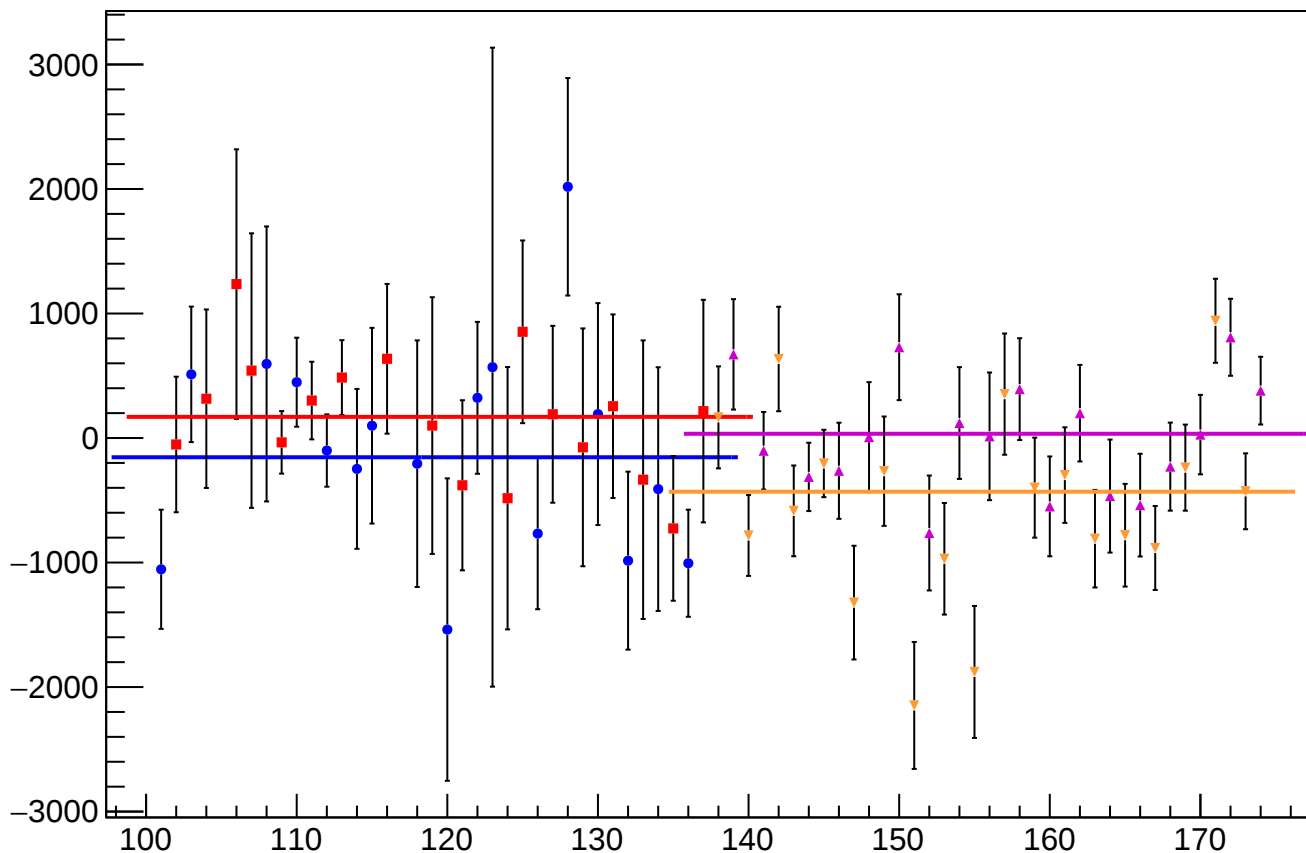
Right: 72.203 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 870767.9/34

In: 71.103 $\pm$ 0.011  $\chi^2/\text{NDF}$ :575363.5/34

Out: 70.183 $\pm$ 0.011  $\chi^2/\text{NDF}$ :540033.0/36

All: 70.632 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 1118910.7/71

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



Right In: -154.404 $\pm$ 140.700  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -431.132 $\pm$ 87.369  $\chi^2/\text{NDF}$ : 57.8/18

Right Out: 170.028 $\pm$ 126.220  $\chi^2/\text{NDF}$ : 8.4/17

Left In: 34.114 $\pm$ 87.410  $\chi^2/\text{NDF}$ : 24.8/17

Left: -198.618 $\pm$ 61.794  $\chi^2/\text{NDF}$ : 96.8/36

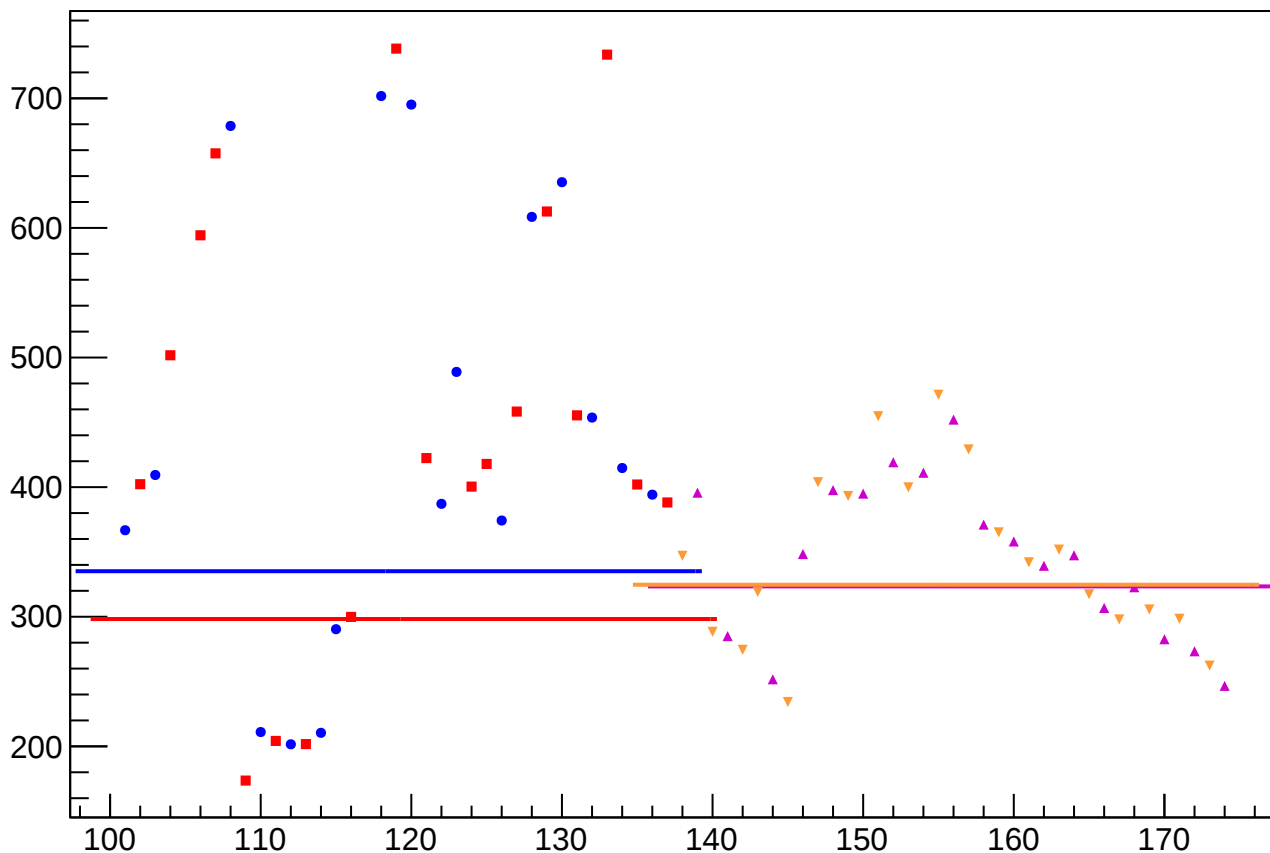
Right: 25.360 $\pm$ 93.955  $\chi^2/\text{NDF}$ : 34.5/34

In: -18.383 $\pm$ 74.248  $\chi^2/\text{NDF}$ : 49.3/34

Out: -236.400 $\pm$ 71.838  $\chi^2/\text{NDF}$ : 81.6/36

All: -130.988 $\pm$ 51.628  $\chi^2/\text{NDF}$ : 135.3/71

asym\_sam7\_correction\_rms vs Slug, Sign Corrected



Right In: 335.134+/-0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 324.700+/-0.062  $\chi^2/\text{NDF}$ : 972985.7/18

Right Out: 298.253+/-0.089  $\chi^2/\text{NDF}$ : 2776555.9/17

Left In: 323.407+/-0.062  $\chi^2/\text{NDF}$ : 928897.2/17

Left: 324.054+/-0.044  $\chi^2/\text{NDF}$ : 1902102.0/36

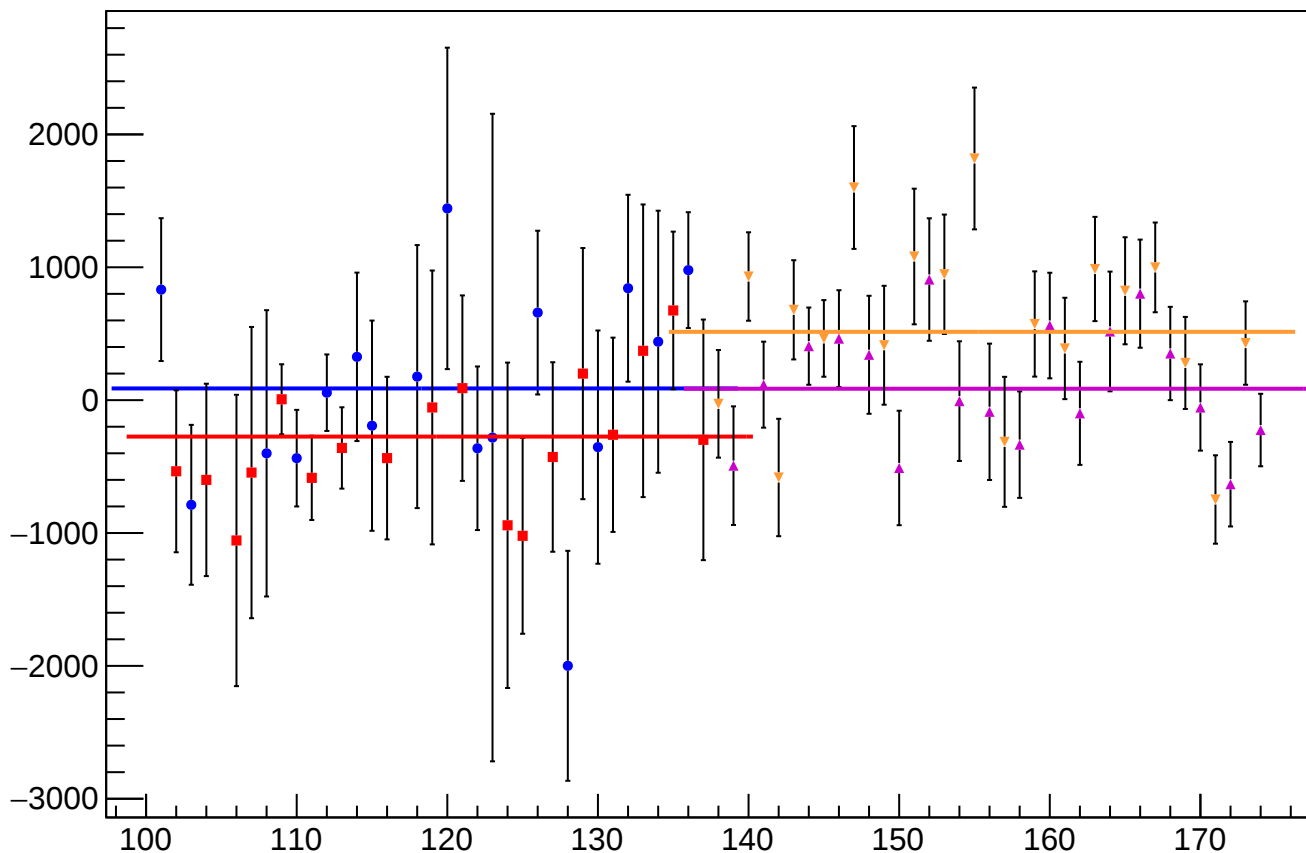
Right: 314.699+/-0.066  $\chi^2/\text{NDF}$ : 4846742.5/34

In: 326.673+/-0.053  $\chi^2/\text{NDF}$ : 2932967.2/34

Out: 316.134+/-0.051  $\chi^2/\text{NDF}$ : 3808905.1/36

All: 321.229+/-0.037  $\chi^2/\text{NDF}$ : 6762685.7/71

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 88.115+/-143.018  $\chi^2/\text{NDF}$ : 20.8/16

Left Out: 514.158+/-88.455  $\chi^2/\text{NDF}$ :45.5/18

Right Out: -274.340+/-129.866  $\chi^2/\text{NDF}$ : 8.0/17

Left In: 85.850+/-88.075  $\chi^2/\text{NDF}$ :23.5/17

Left: 299.082+/-62.412  $\chi^2/\text{NDF}$ : 80.7/36

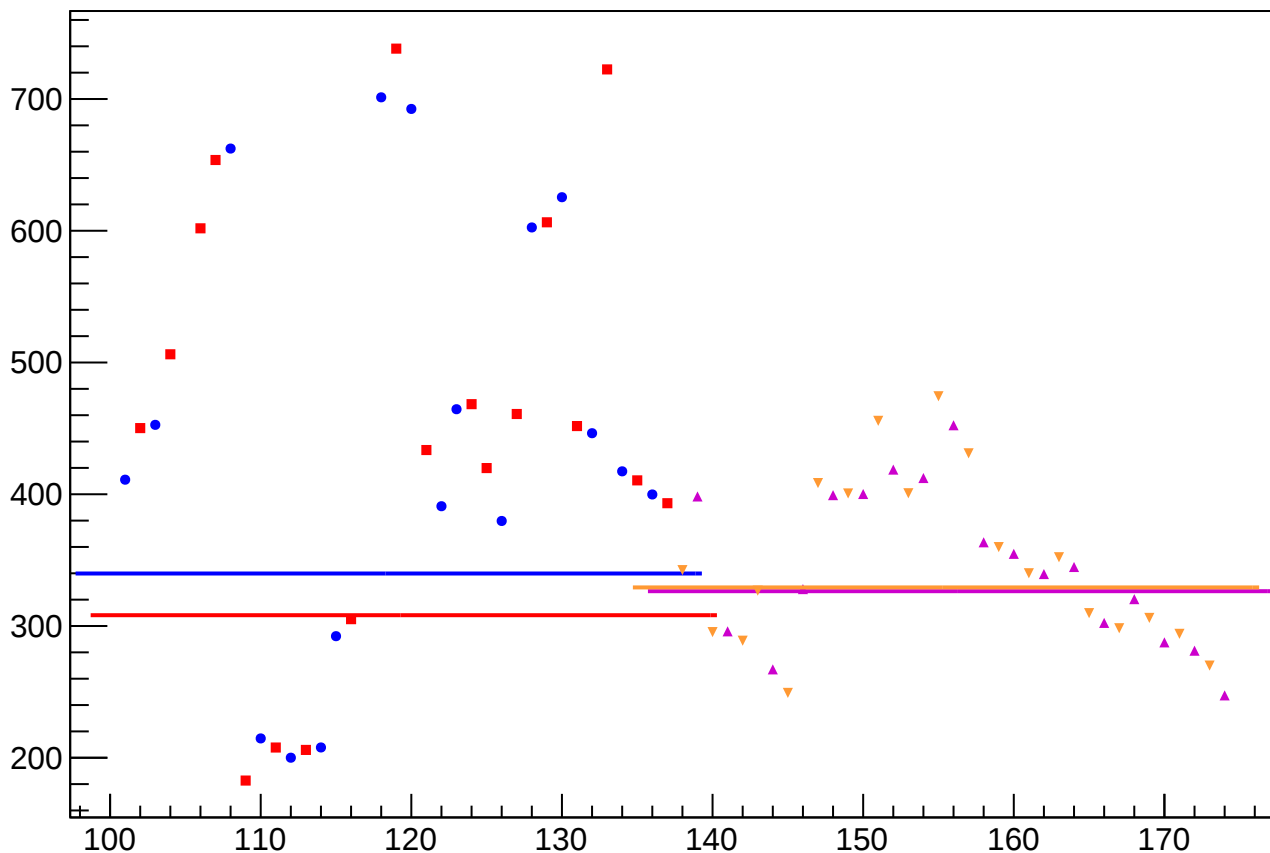
Right: -110.540+/-96.143  $\chi^2/\text{NDF}$ : 32.4/34

In: 86.473+/-74.995  $\chi^2/\text{NDF}$ :44.3/34

Out: 264.277+/-73.107  $\chi^2/\text{NDF}$ :78.7/36

All: 177.641+/-52.349  $\chi^2/\text{NDF}$ : 125.9/71

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 339.850+/-0.101  $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out: 329.284+/-0.063  $\chi^2/\text{NDF}$ : 855921.8/18

Right Out: 308.199+/-0.092  $\chi^2/\text{NDF}$ : 2698828.8/17

Left In: 326.421+/-0.062  $\chi^2/\text{NDF}$ : 816575.8/17

Left: 327.846+/-0.044  $\chi^2/\text{NDF}$ : 1673549.5/36

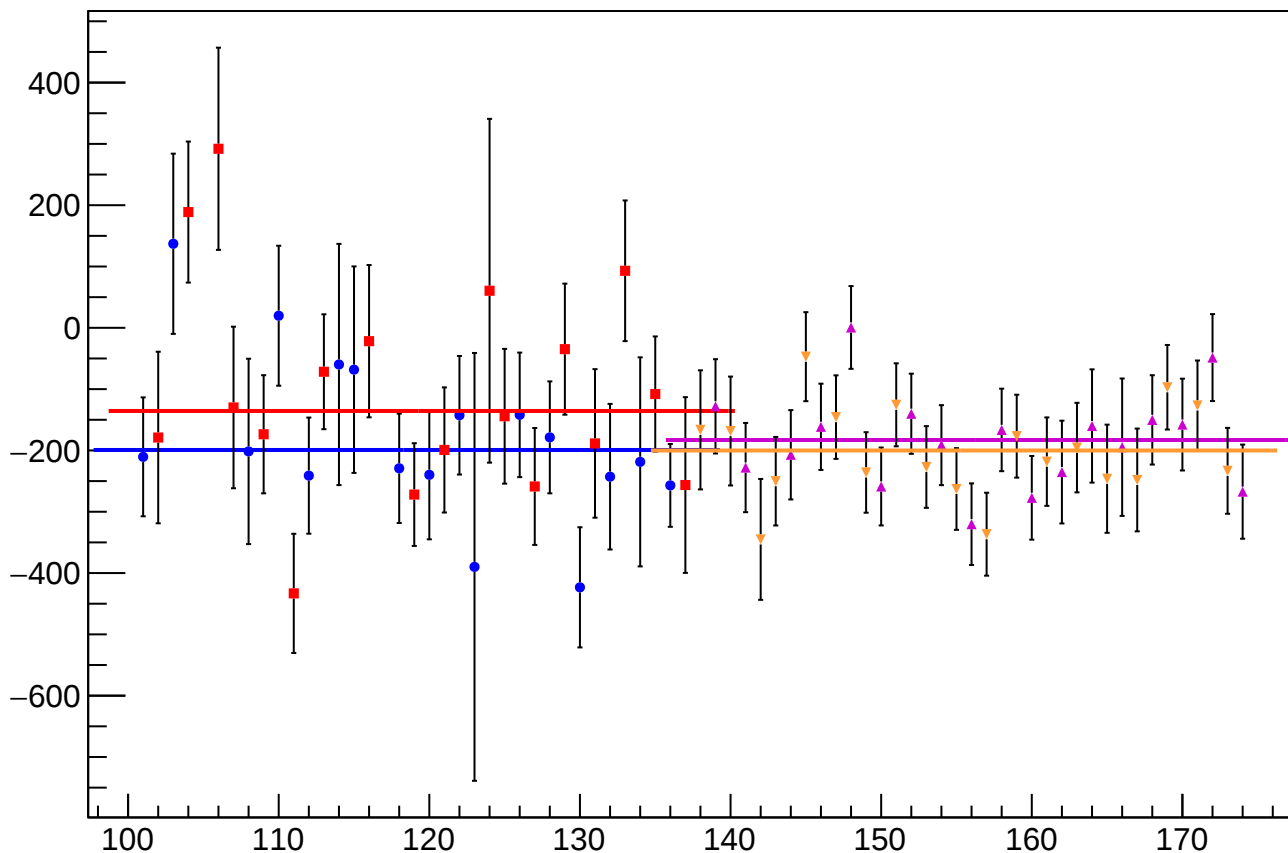
Right: 322.502+/-0.068  $\chi^2/\text{NDF}$ : 4796037.7/34

In: 330.114+/-0.053  $\chi^2/\text{NDF}$ : 2872882.0/34

Out: 322.602+/-0.052  $\chi^2/\text{NDF}$ : 3590764.1/36

All: 326.262+/-0.037  $\chi^2/\text{NDF}$ : 6473934.3/71

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -199.252 $\pm$ 26.515  $\chi^2$ /NDF: 17.6/16

Left Out: -200.074 $\pm$ 16.851  $\chi^2$ /NDF: 18.9/18

Right Out: -135.623 $\pm$ 26.252  $\chi^2$ /NDF: 36.7/17

Left In: -182.991 $\pm$ 17.099  $\chi^2$ /NDF: 22.2/17

Left: -191.657 $\pm$ 12.002  $\chi^2$ /NDF: 41.5/36

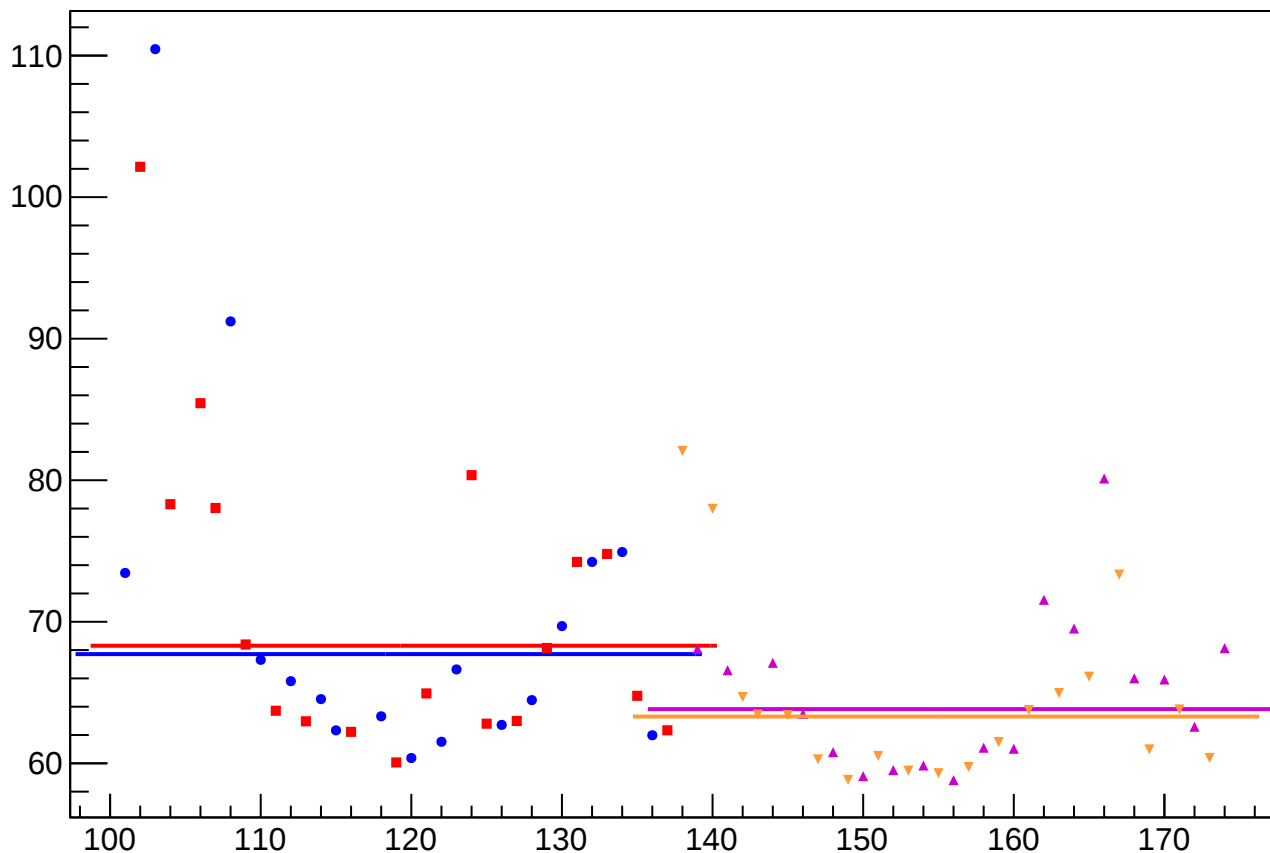
Right: -167.121 $\pm$ 18.655  $\chi^2$ /NDF: 57.2/34

In: -187.767 $\pm$ 14.370  $\chi^2$ /NDF: 40.0/34

Out: -181.268 $\pm$ 14.181  $\chi^2$ /NDF: 59.8/36

All: -184.474 $\pm$ 10.094  $\chi^2$ /NDF: 99.9/71

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 67.715+/-0.019  $\chi^2/\text{NDF}$ : 282892.5/16

Left Out: 63.305+/-0.012  $\chi^2/\text{NDF}$ : 204776.9/18

Right Out: 68.308+/-0.019  $\chi^2/\text{NDF}$ : 234314.0/17

Left In: 63.830+/-0.012  $\chi^2/\text{NDF}$ : 139509.7/17

Left: 63.564+/-0.008  $\chi^2/\text{NDF}$ : 345245.3/36

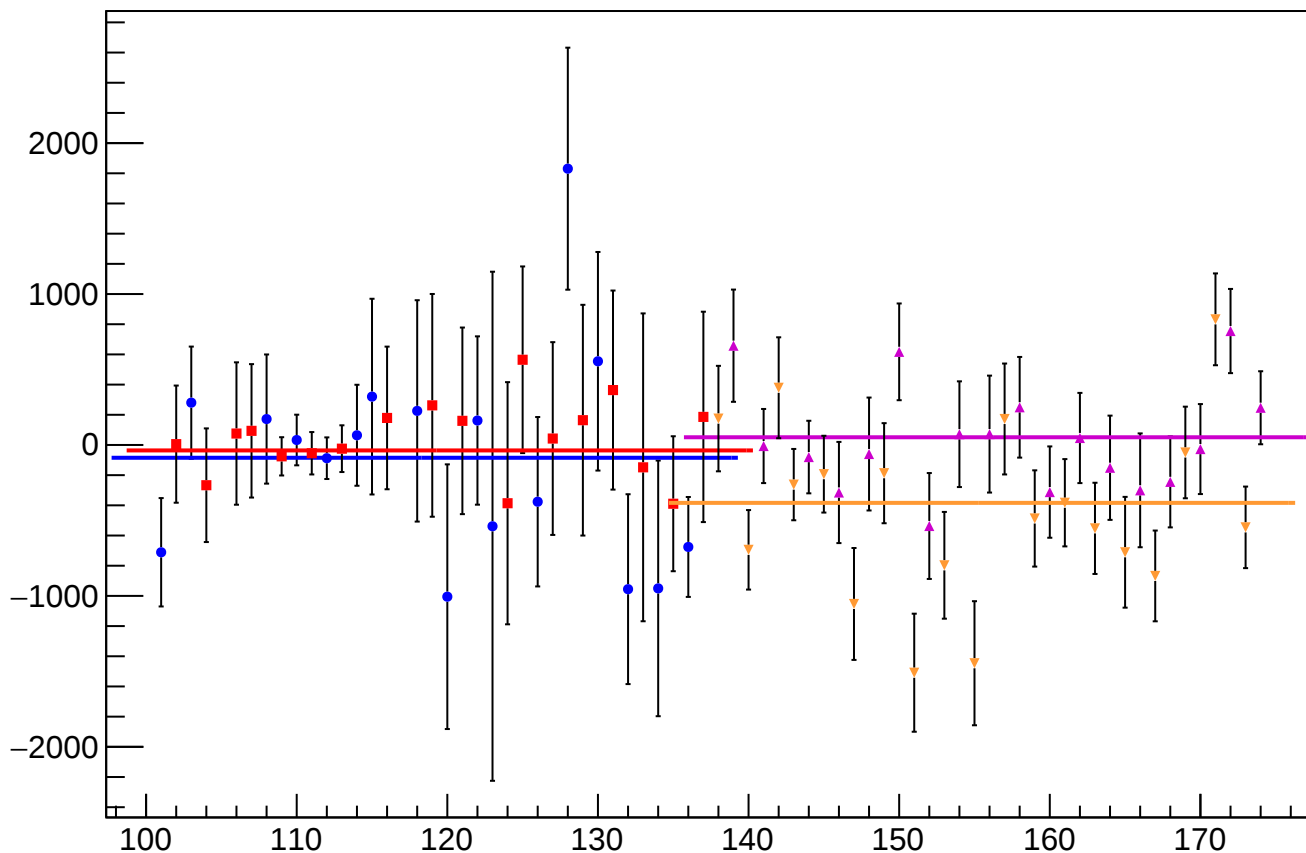
Right: 68.015+/-0.013  $\chi^2/\text{NDF}$ : 517711.7/34

In: 64.971+/-0.010  $\chi^2/\text{NDF}$ : 452728.9/34

Out: 64.765+/-0.010  $\chi^2/\text{NDF}$ : 490547.5/36

All: 64.867+/-0.007  $\chi^2/\text{NDF}$ : 943485.9/71

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}$ : 19.9/16

Left Out:  $-383.612 \pm 71.477$   $\chi^2/\text{NDF}$ : 53.6/18

Right Out:  $-36.132 \pm 69.750$   $\chi^2/\text{NDF}$ : 3.4/17

Left In:  $51.044 \pm 72.826$   $\chi^2/\text{NDF}$ : 21.3/17

Left:  $-170.348 \pm 51.012$   $\chi^2/\text{NDF}$ : 93.0/36

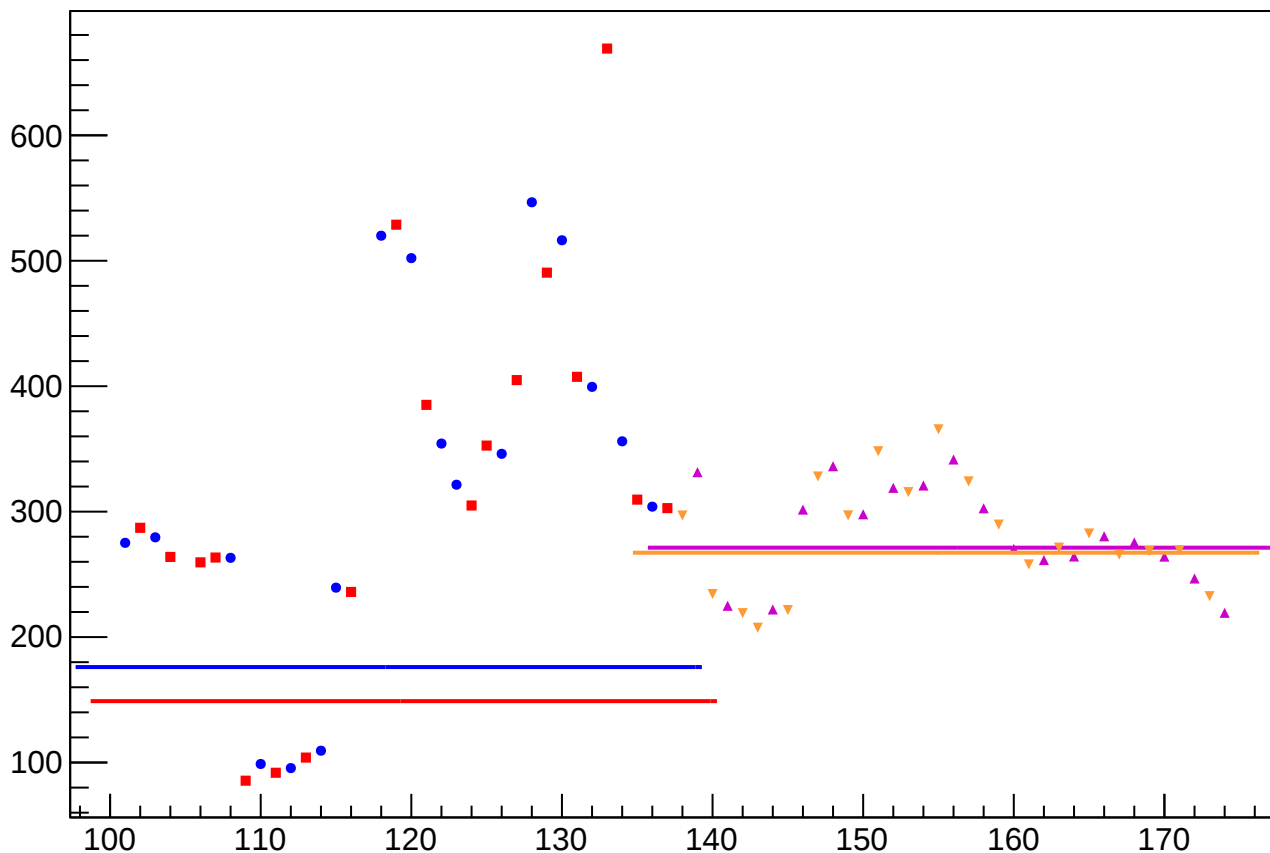
Right:  $-56.354 \pm 53.310$   $\chi^2/\text{NDF}$ : 23.5/34

In:  $-8.296 \pm 54.646$   $\chi^2/\text{NDF}$ : 42.7/34

Out:  $-205.625 \pm 49.920$   $\chi^2/\text{NDF}$ : 69.1/36

All:  $-115.860 \pm 36.856$   $\chi^2/\text{NDF}$ : 118.9/71

# asym\_sam8\_correction\_rms vs Slug, Sign Corrected



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 267.250+/-0.051  $\chi^2/\text{NDF}$ : 683945.4/18

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

Left In: 271.267+/-0.051  $\chi^2/\text{NDF}$ : 571992.9/17

Left: 269.221+/-0.036  $\chi^2/\text{NDF}$ : 1259037.3/36

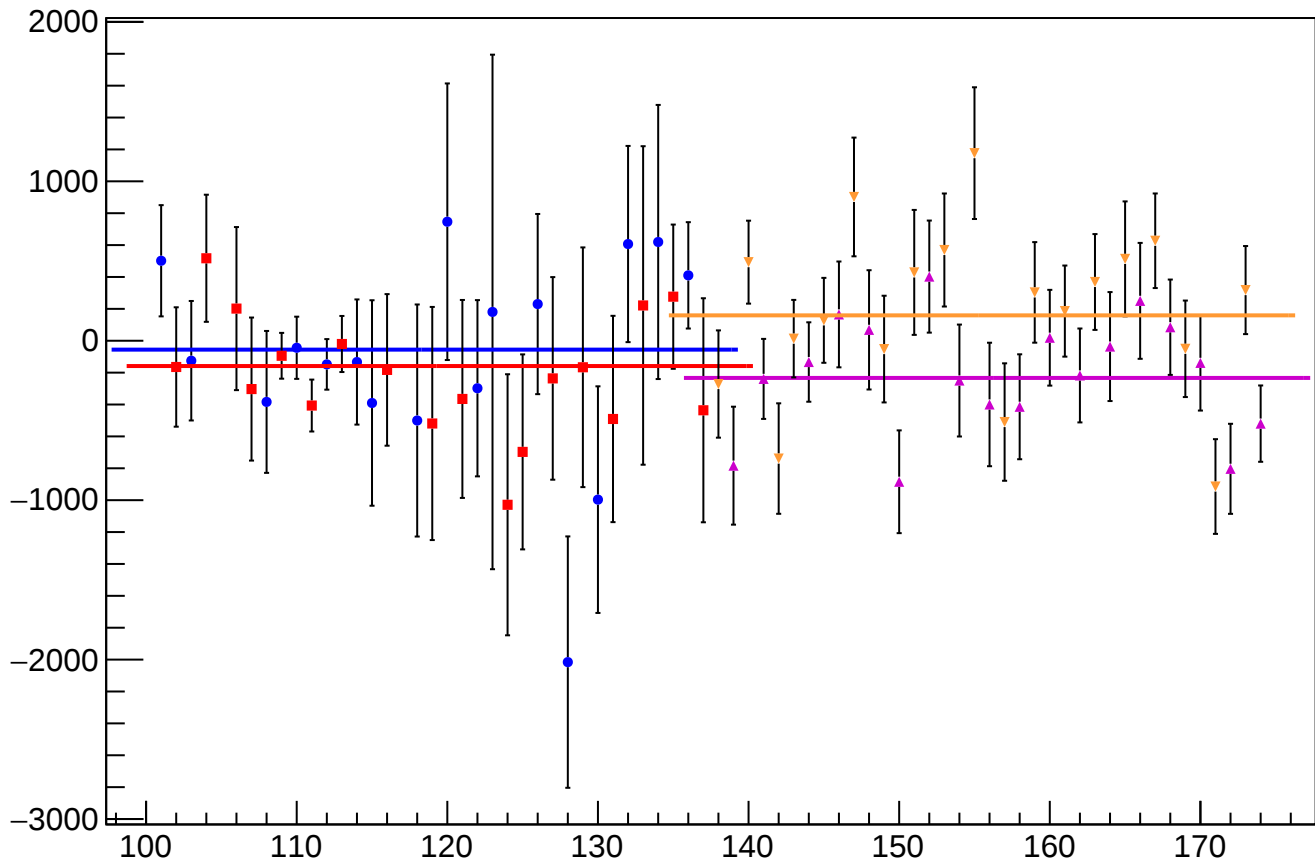
Right: 160.228+/-0.038  $\chi^2/\text{NDF}$ : 9120718.3/34

In: 229.681+/-0.039  $\chi^2/\text{NDF}$ : 6288122.0/34

Out: 206.645+/-0.035  $\chi^2/\text{NDF}$ : 8262033.7/36

All: 217.124+/-0.026  $\chi^2/\text{NDF}$ : 14743900.0/70

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}: 17.1/16$

Left Out:  $159.233 \pm 71.686$   $\chi^2/\text{NDF}: 44.0/18$

Right Out:  $-158.676 \pm 77.072$   $\chi^2/\text{NDF}: 10.4/17$

Left In:  $-233.218 \pm 72.863$   $\chi^2/\text{NDF}: 21.9/17$

Left:  $-33.798 \pm 51.101$   $\chi^2/\text{NDF}: 80.6/36$

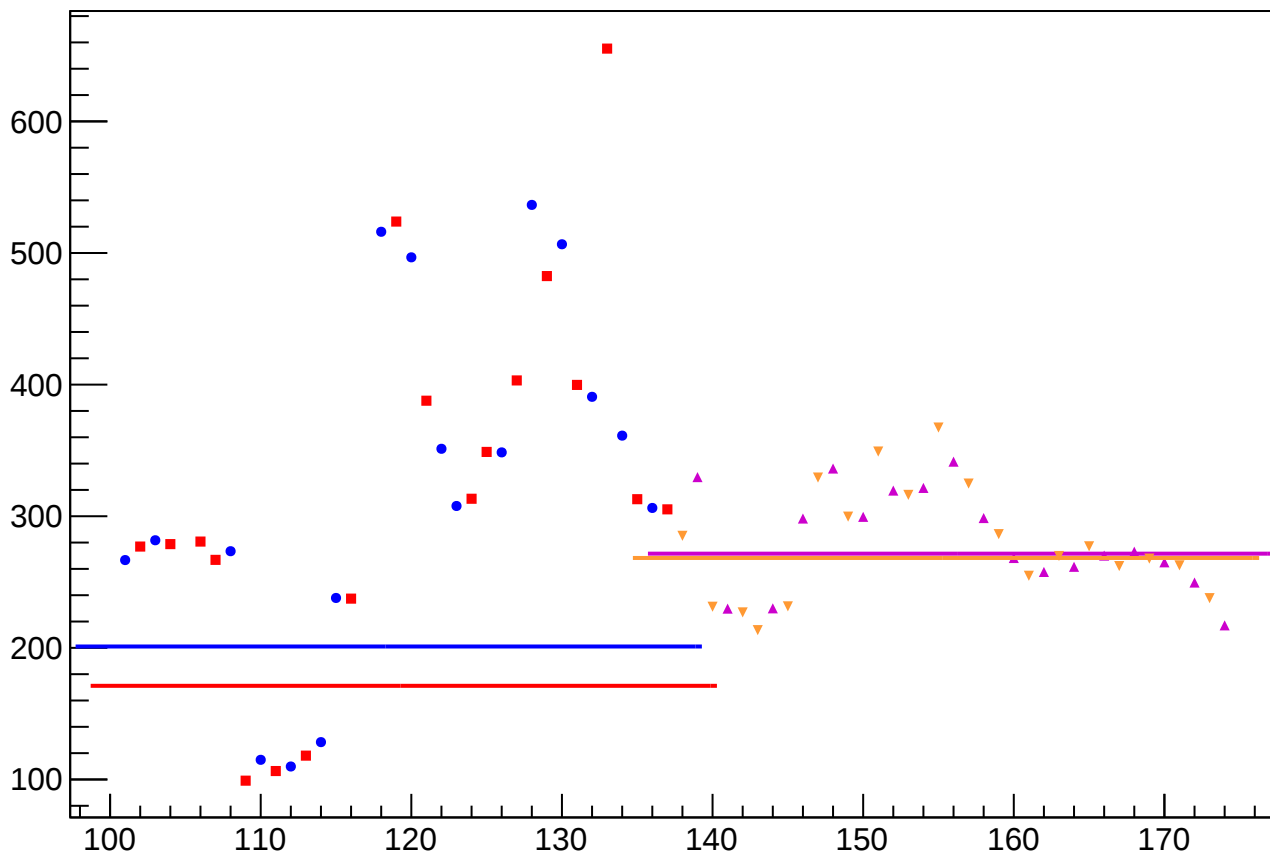
Right:  $-115.437 \pm 58.697$   $\chi^2/\text{NDF}: 28.3/34$

In:  $-163.481 \pm 56.772$   $\chi^2/\text{NDF}: 41.3/34$

Out:  $11.774 \pm 52.491$   $\chi^2/\text{NDF}: 63.5/36$

All:  $-68.996 \pm 38.541$   $\chi^2/\text{NDF}: 109.9/71$

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 201.036 $\pm$ 0.064  $\chi^2$ /NDF: 3433026.4/16

Left Out: 268.295 $\pm$ 0.051  $\chi^2$ /NDF: 607680.8/18

Right Out: 171.159 $\pm$ 0.054  $\chi^2$ /NDF: 4065598.7/17

Left In: 271.570 $\pm$ 0.052  $\chi^2$ /NDF: 527725.2/17

Left: 269.906 $\pm$ 0.036  $\chi^2$ /NDF: 1137458.8/36

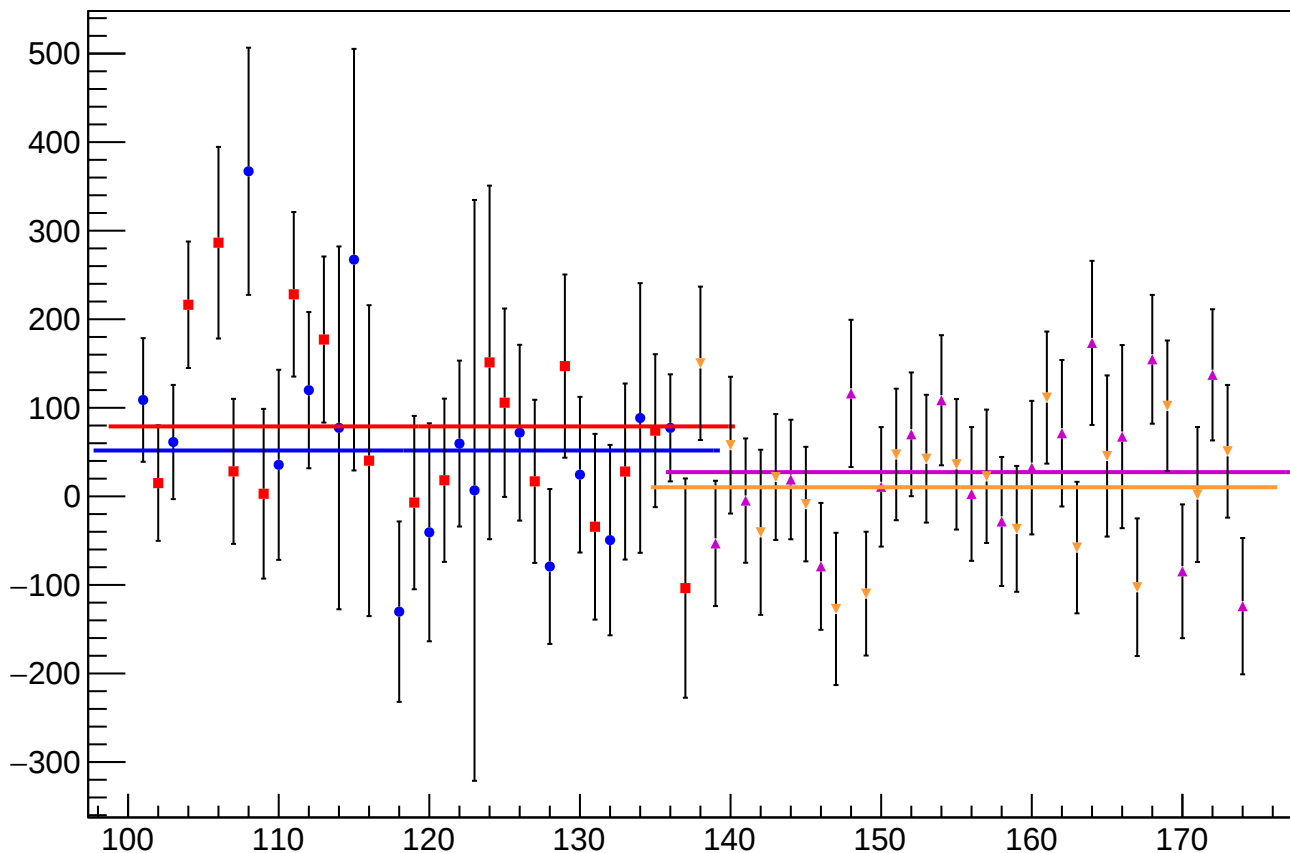
Right: 183.707 $\pm$ 0.042  $\chi^2$ /NDF: 7624855.0/34

In: 243.857 $\pm$ 0.040  $\chi^2$ /NDF: 4697118.2/34

Out: 223.240 $\pm$ 0.037  $\chi^2$ /NDF: 6376584.6/36

All: 232.742 $\pm$ 0.027  $\chi^2$ /NDF: 11215913.6/73

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 51.799 $\pm$ 23.538  $\chi^2$ /NDF: 14.5/16

Left Out: 10.304 $\pm$ 17.391  $\chi^2$ /NDF:16.7/18

Right Out: 79.008 $\pm$ 22.499  $\chi^2$ /NDF: 19.0/17

Left In: 27.368 $\pm$ 17.725  $\chi^2$ /NDF:21.5/17

Left: 18.674 $\pm$ 12.414  $\chi^2$ /NDF: 38.7/36

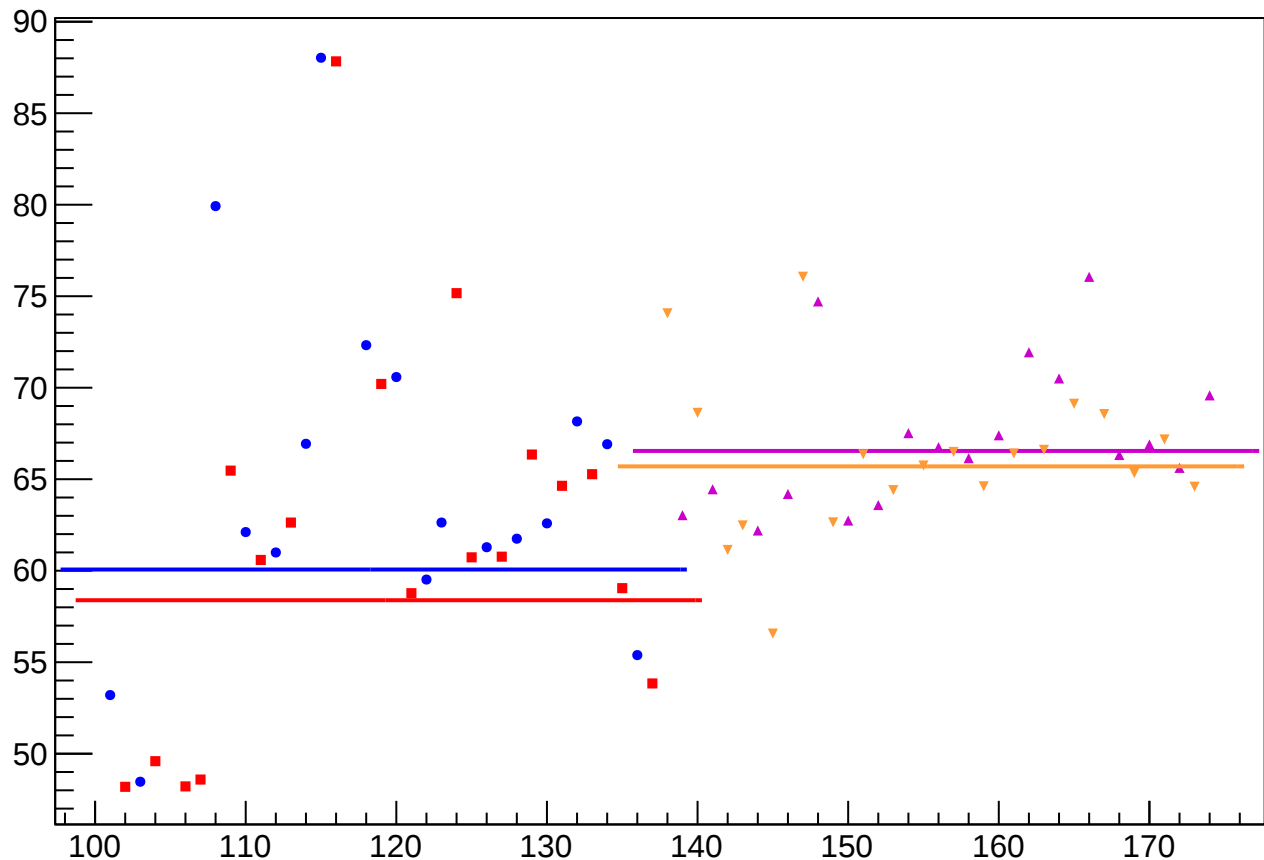
Right: 66.018 $\pm$ 16.264  $\chi^2$ /NDF: 34.2/34

In: 36.209 $\pm$ 14.160  $\chi^2$ /NDF:36.7/34

Out: 36.000 $\pm$ 13.760  $\chi^2$ /NDF:41.6/36

All: 36.101 $\pm$ 9.868  $\chi^2$ /NDF: 78.2/71

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: 65.702 $\pm$ 0.012  $\chi^2$ /NDF: 112003.1/18

Right Out: 58.387 $\pm$ 0.016  $\chi^2$ /NDF: 275017.2/17

Left In: 66.545 $\pm$ 0.013  $\chi^2$ /NDF: 79677.3/17

Left: 66.115 $\pm$ 0.009  $\chi^2$ /NDF: 193987.8/36

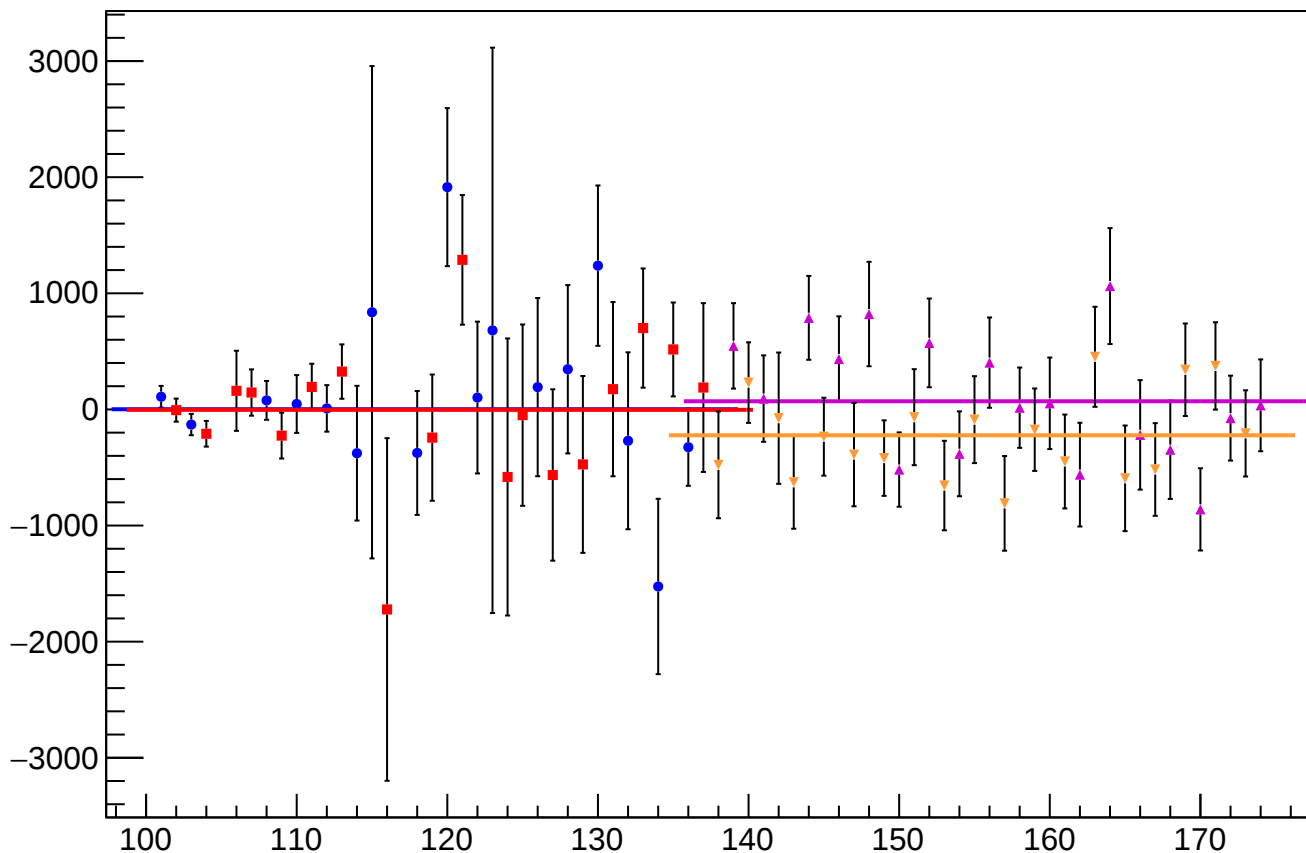
Right: 59.188 $\pm$ 0.012  $\chi^2$ /NDF: 509429.8/34

In: 64.200 $\pm$ 0.010  $\chi^2$ /NDF: 405493.7/34

Out: 62.966 $\pm$ 0.010  $\chi^2$ /NDF: 519349.4/36

All: 63.565 $\pm$ 0.007  $\chi^2$ /NDF: 932659.6/71

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: -222.588+/-90.253  $\chi^2/\text{NDF}$ :15.8/18

Right Out: -3.242+/-56.611  $\chi^2/\text{NDF}$ : 20.2/17

Left In: 70.294+/-90.890  $\chi^2/\text{NDF}$ :31.2/17

Left: -77.177+/-64.042  $\chi^2/\text{NDF}$ : 52.2/36

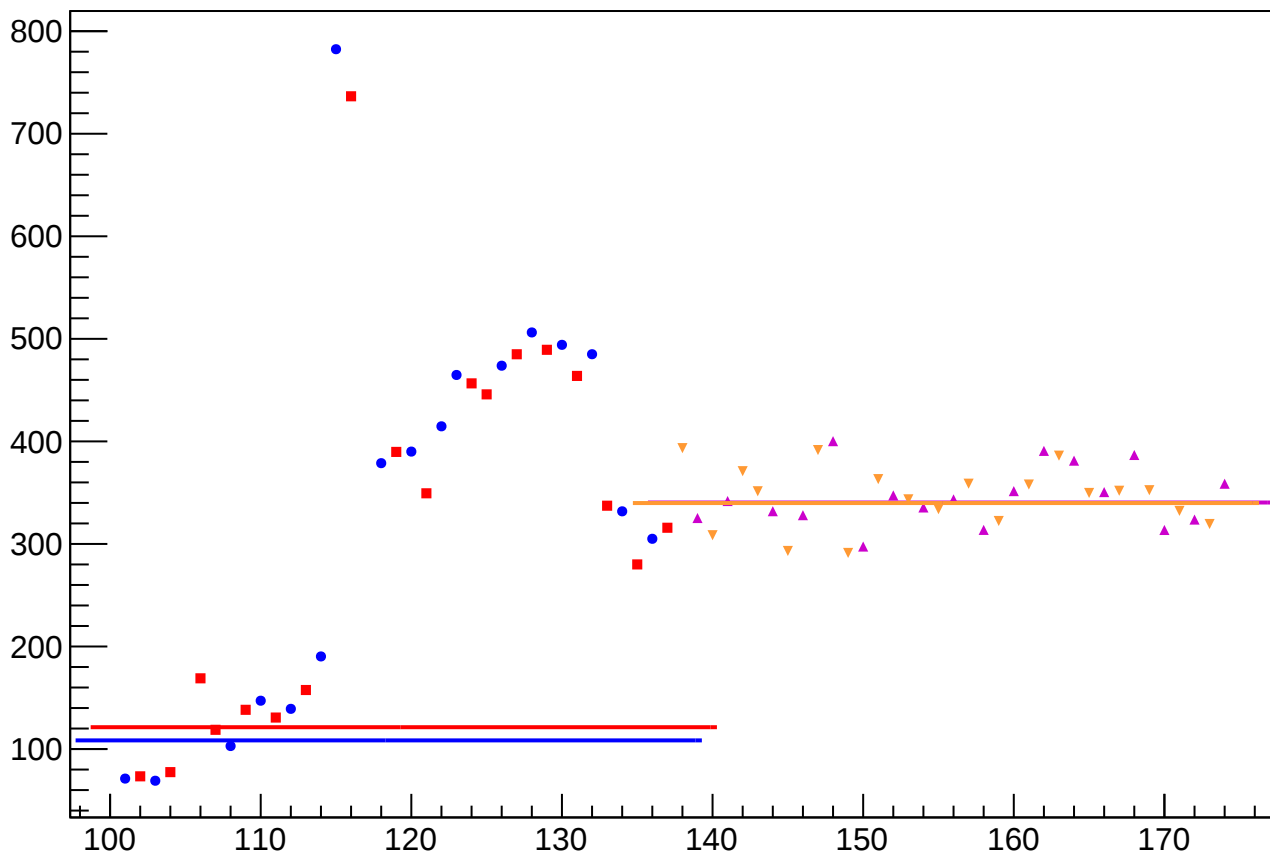
Right: -0.730+/-39.182  $\chi^2/\text{NDF}$ : 41.6/34

In: 19.647+/-46.605  $\chi^2/\text{NDF}$ :53.0/34

Out: -65.176+/-47.958  $\chi^2/\text{NDF}$ :40.2/36

All: -21.551+/-33.423  $\chi^2/\text{NDF}$ : 94.8/71

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: 339.881 $\pm$ 0.064  $\chi^2$ /NDF:216500.4/18

Right Out: 121.303 $\pm$ 0.040  $\chi^2$ /NDF: 4731568.2/17

Left In: 340.404 $\pm$ 0.064  $\chi^2$ /NDF:176286.2/17

Left: 340.141 $\pm$ 0.045  $\chi^2$ /NDF: 392819.9/36

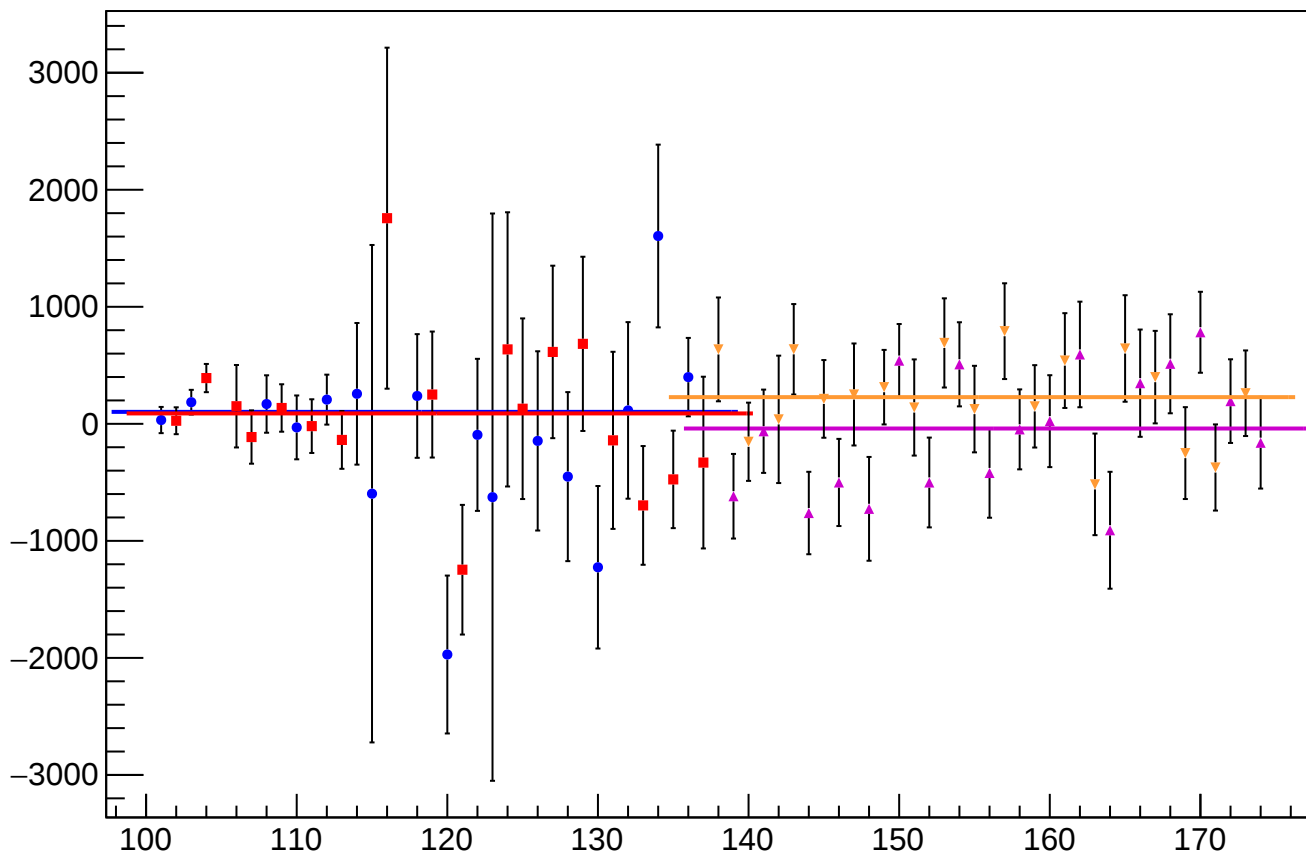
Right: 114.604 $\pm$ 0.028  $\chi^2$ /NDF: 10189429.3/34

In: 169.432 $\pm$ 0.033  $\chi^2$ /NDF:15181788.4/34

Out: 183.020 $\pm$ 0.034  $\chi^2$ /NDF:13366519.2/36

All: 176.032 $\pm$ 0.024  $\chi^2$ /NDF: 28630883.2/73

asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.221 $\pm$ 63.127  $\chi^2/\text{NDF}$ : 20.3/16

Left Out: 228.060 $\pm$ 88.920  $\chi^2/\text{NDF}$ :15.7/18

Right Out: 88.841 $\pm$ 62.230  $\chi^2/\text{NDF}$ : 21.7/17

Left In: -39.974 $\pm$ 89.612  $\chi^2/\text{NDF}$ :32.5/17

Left: 95.082 $\pm$ 63.119  $\chi^2/\text{NDF}$ : 52.8/36

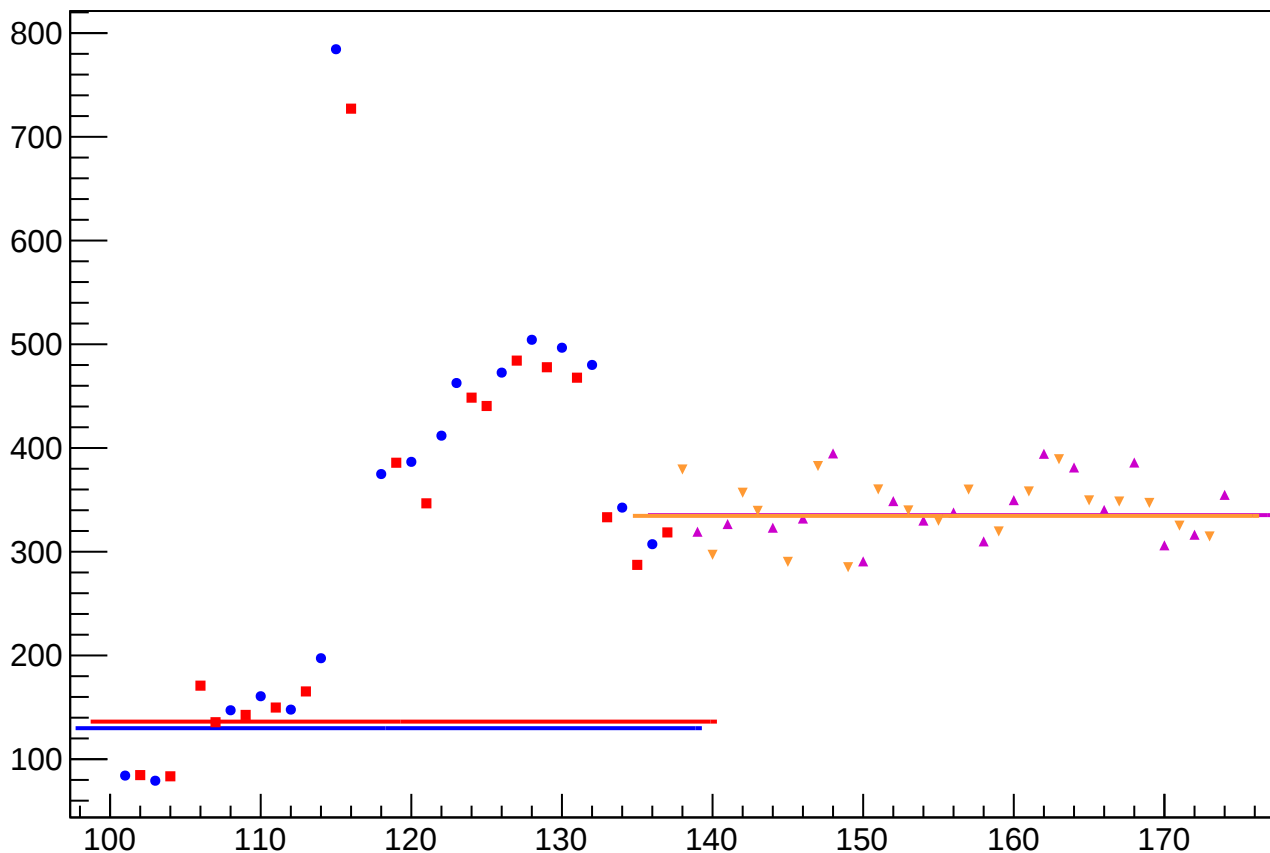
Right: 95.435 $\pm$ 44.317  $\chi^2/\text{NDF}$ : 42.0/34

In: 55.060 $\pm$ 51.608  $\chi^2/\text{NDF}$ :54.5/34

Out: 134.611 $\pm$ 50.985  $\chi^2/\text{NDF}$ :39.1/36

All: 95.319 $\pm$ 36.270  $\chi^2/\text{NDF}$ : 94.8/71

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 334.581+/-0.063  $\chi^2/\text{NDF}$ : 229476.3/18

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

Left In: 335.293+/-0.063  $\chi^2/\text{NDF}$ : 205885.6/17

Left: 334.934+/-0.045  $\chi^2/\text{NDF}$ : 435425.6/36

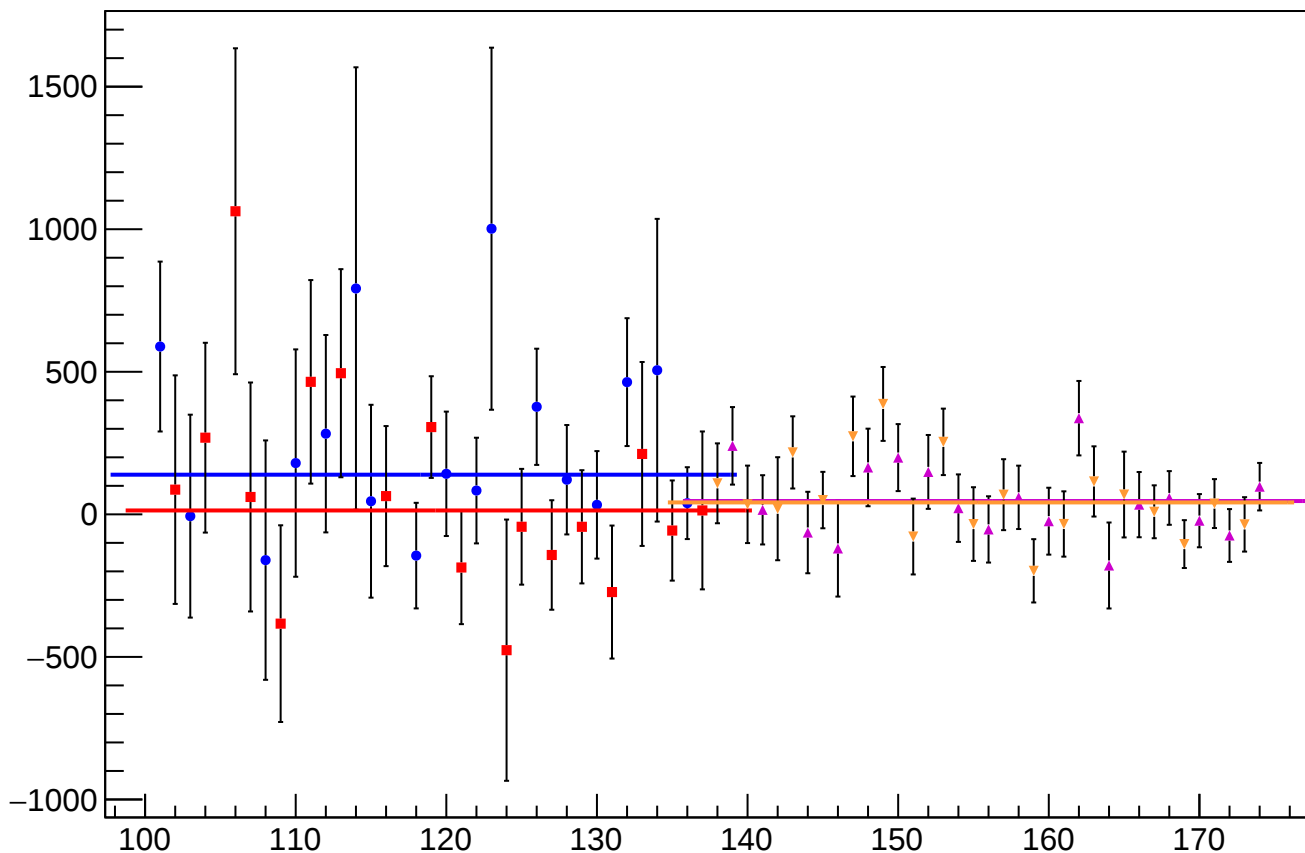
Right: 133.100+/-0.031  $\chi^2/\text{NDF}$ : 9122555.3/34

In: 198.011+/-0.036  $\chi^2/\text{NDF}$ : 12058576.2/34

Out: 201.437+/-0.036  $\chi^2/\text{NDF}$ : 11192634.1/36

All: 199.745+/-0.026  $\chi^2/\text{NDF}$ : 23255671.9/71

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: 41.842 $\pm$ 26.376  $\chi^2$ /NDF:25.9/18

Right Out: 13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

Left In: 46.686 $\pm$ 27.131  $\chi^2$ /NDF:17.7/17

Left: 44.195 $\pm$ 18.912  $\chi^2$ /NDF: 43.6/36

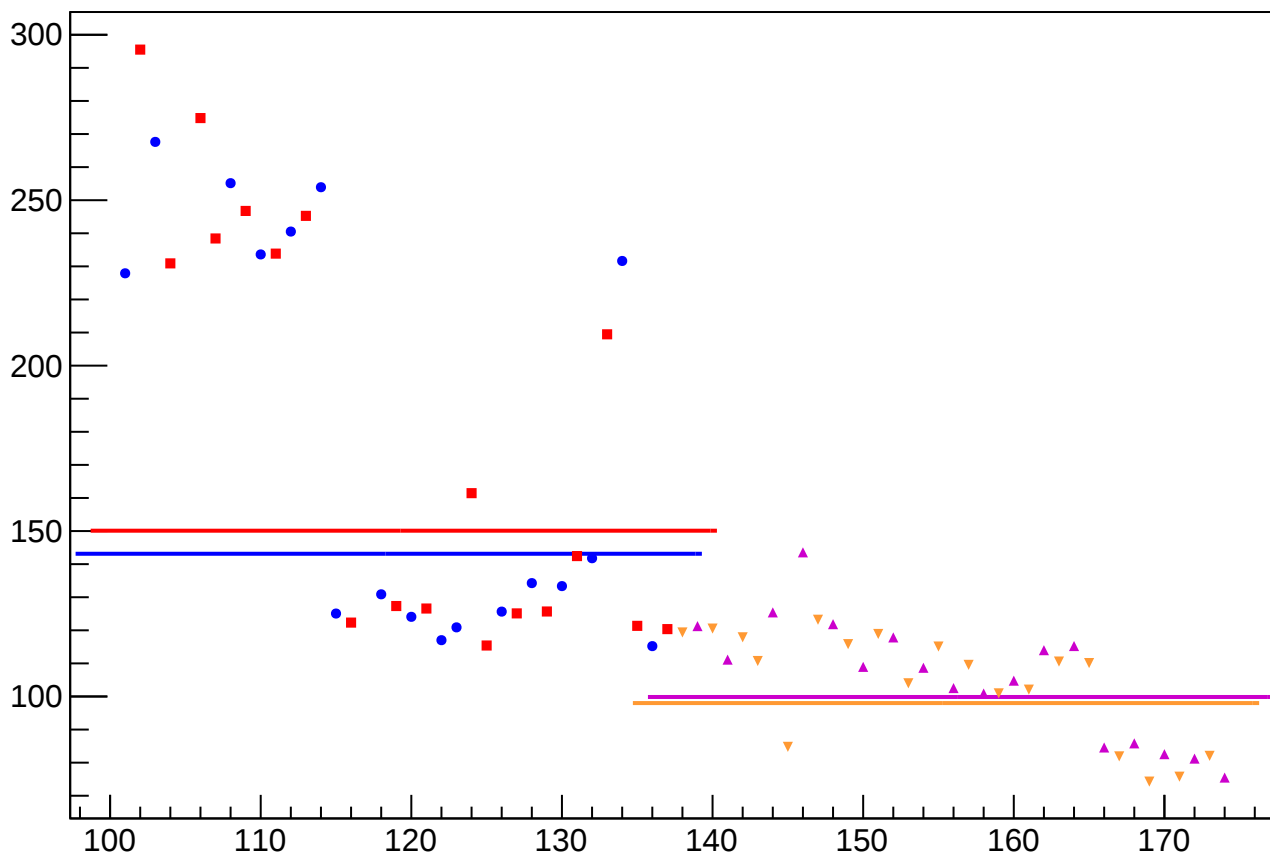
Right: 78.643 $\pm$ 41.737  $\chi^2$ /NDF: 31.8/34

In: 63.284 $\pm$ 24.574  $\chi^2$ /NDF:32.9/34

Out: 37.290 $\pm$ 24.154  $\chi^2$ /NDF:42.5/36

All: 50.063 $\pm$ 17.226  $\chi^2$ /NDF: 75.9/71

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 98.010 $\pm$ 0.019  $\chi^2$ /NDF: 839690.4/18

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

Left In: 99.850 $\pm$ 0.019  $\chi^2$ /NDF: 828874.0/17

Left: 98.904 $\pm$ 0.013  $\chi^2$ /NDF: 1673292.2/36

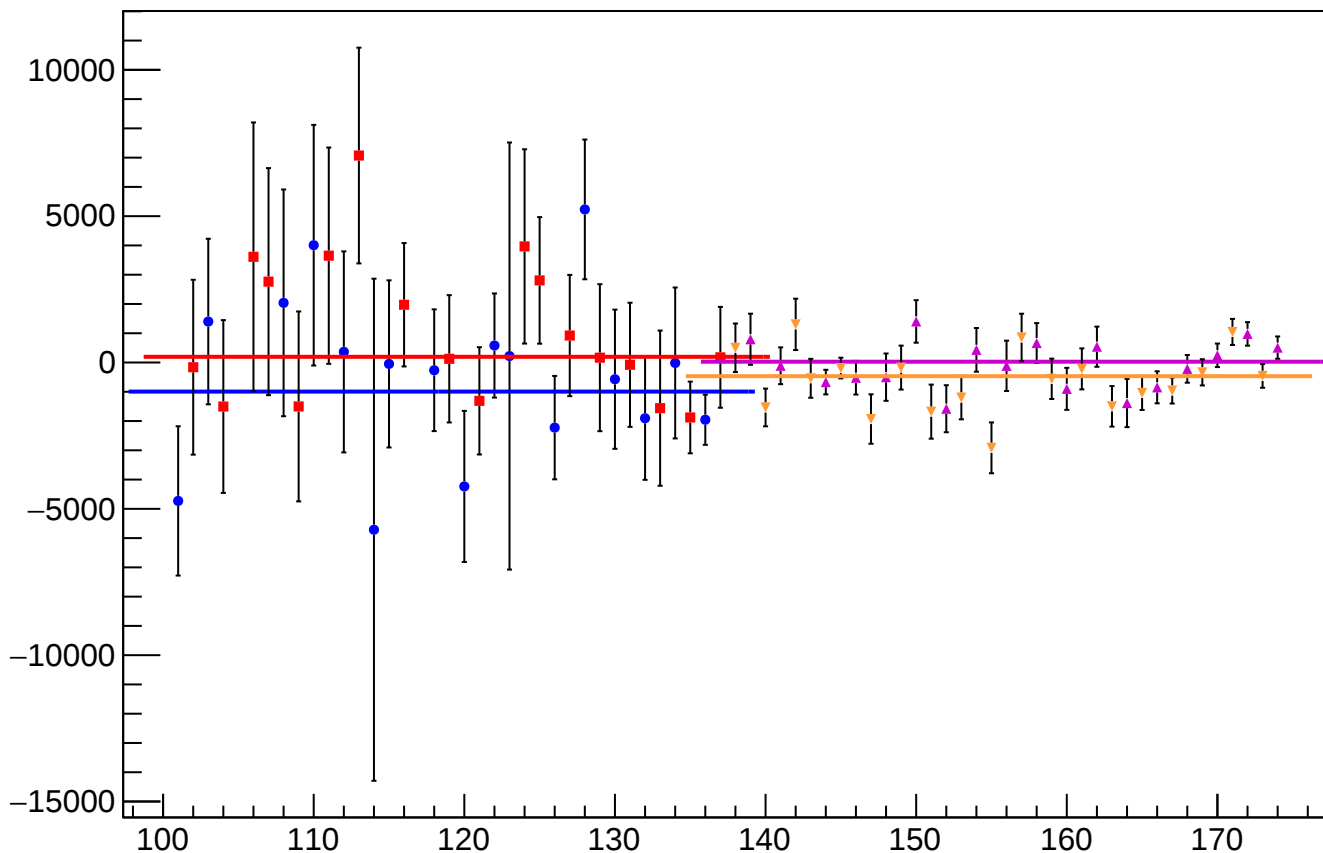
Right: 146.498 $\pm$ 0.030  $\chi^2$ /NDF: 2447968.1/34

In: 107.625 $\pm$ 0.017  $\chi^2$ /NDF: 2844751.8/34

Out: 106.418 $\pm$ 0.017  $\chi^2$ /NDF: 3431724.2/36

All: 107.011 $\pm$ 0.012  $\chi^2$ /NDF: 6278933.3/71

asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-993.785 \pm 516.463$   $\chi^2/\text{NDF}: 16.9/16$

Left Out:  $-467.102 \pm 135.110$   $\chi^2/\text{NDF}: 41.4/18$

Right Out:  $195.049 \pm 543.821$   $\chi^2/\text{NDF}: 13.5/17$

Left In:  $27.164 \pm 134.392$   $\chi^2/\text{NDF}: 29.1/17$

Left:  $-218.652 \pm 95.282$   $\chi^2/\text{NDF}: 77.3/36$

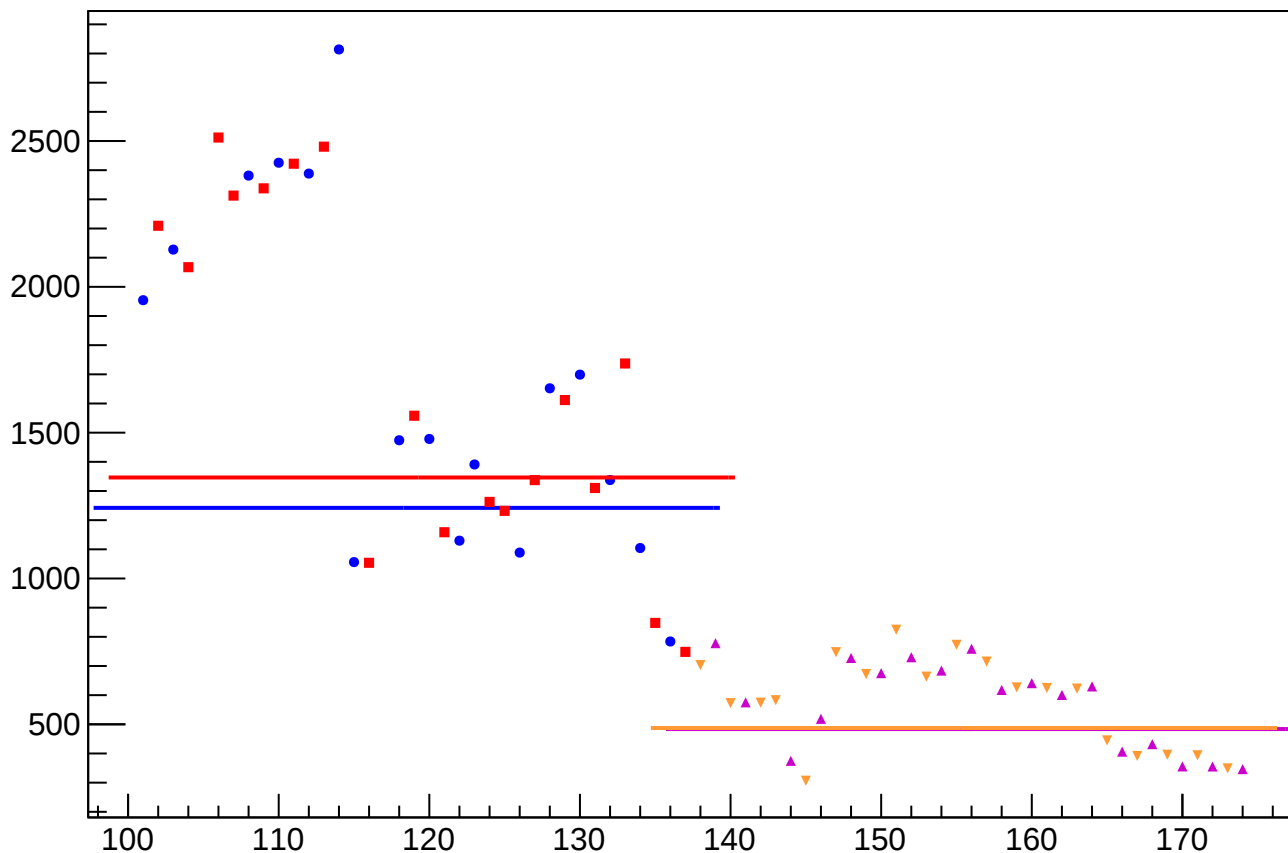
Right:  $-430.023 \pm 374.493$   $\chi^2/\text{NDF}: 33.0/34$

In:  $-37.582 \pm 130.060$   $\chi^2/\text{NDF}: 49.7/34$

Out:  $-428.607 \pm 131.123$   $\chi^2/\text{NDF}: 56.4/36$

All:  $-231.503 \pm 92.340$   $\chi^2/\text{NDF}: 110.6/71$

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1242.172+/-0.365  $\chi^2/\text{NDF}$ : 1767422.8/16

Left Out: 487.389+/-0.096  $\chi^2/\text{NDF}$ : 2559295.5/18

Right Out: 1346.340+/-0.385  $\chi^2/\text{NDF}$ : 1809161.2/17

Left In: 483.737+/-0.095  $\chi^2/\text{NDF}$ : 2293919.8/17

Left: 485.553+/-0.067  $\chi^2/\text{NDF}$ : 4853949.9/36

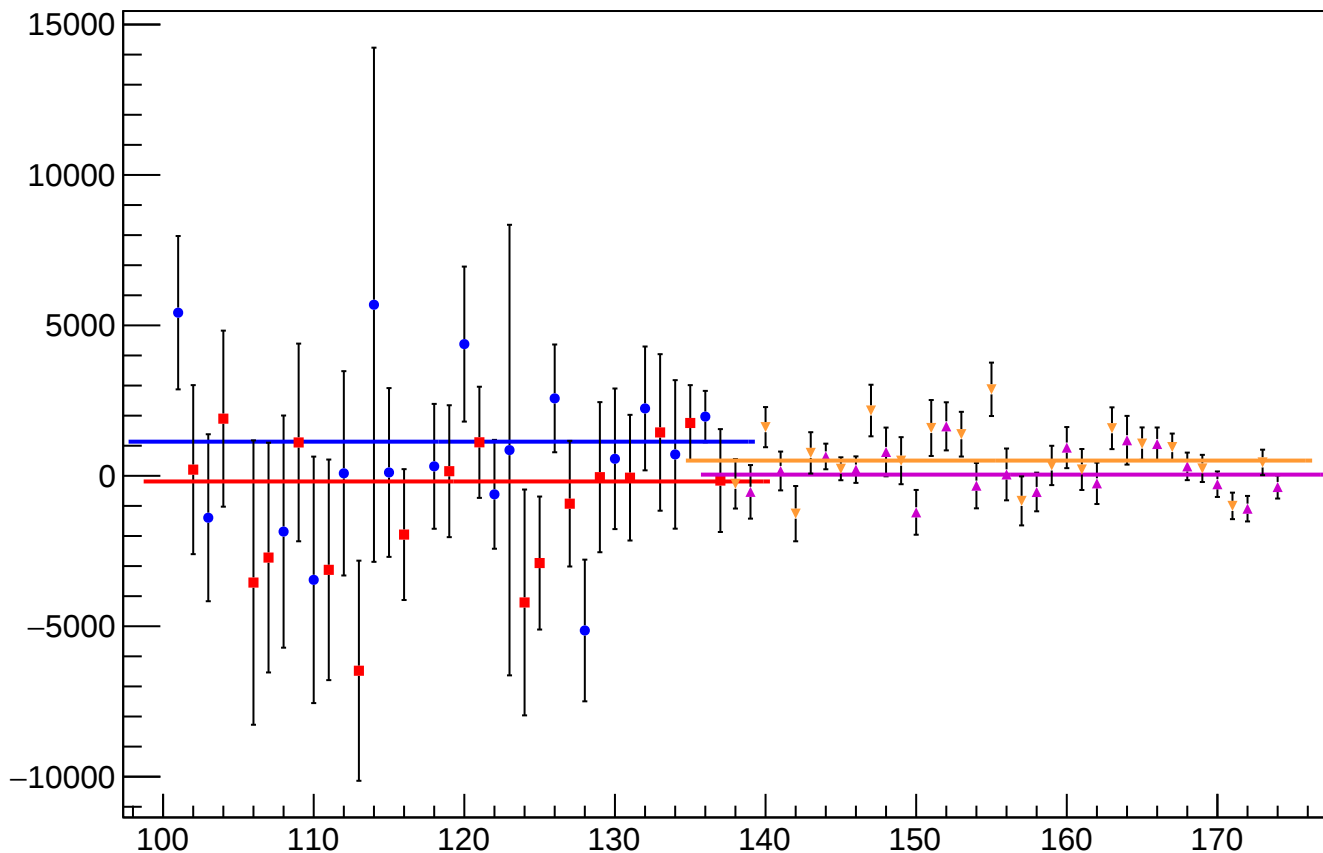
Right: 1291.570+/-0.265  $\chi^2/\text{NDF}$ : 3615166.4/34

In: 531.835+/-0.092  $\chi^2/\text{NDF}$ : 8100903.9/34

Out: 537.326+/-0.093  $\chi^2/\text{NDF}$ : 9067848.9/36

All: 534.558+/-0.065  $\chi^2/\text{NDF}$ : 17170520.3/73

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 1135.222+/-513.770  $\chi^2/\text{NDF}$ : 17.8/16

Left Out: 506.891+/-136.993  $\chi^2/\text{NDF}$ : 41.1/18

Right Out: -187.508+/-548.191  $\chi^2/\text{NDF}$ : 12.0/17

Left In: 39.871+/-132.958  $\chi^2/\text{NDF}$ : 27.9/17

Left: 266.401+/-95.410  $\chi^2/\text{NDF}$ : 75.0/36

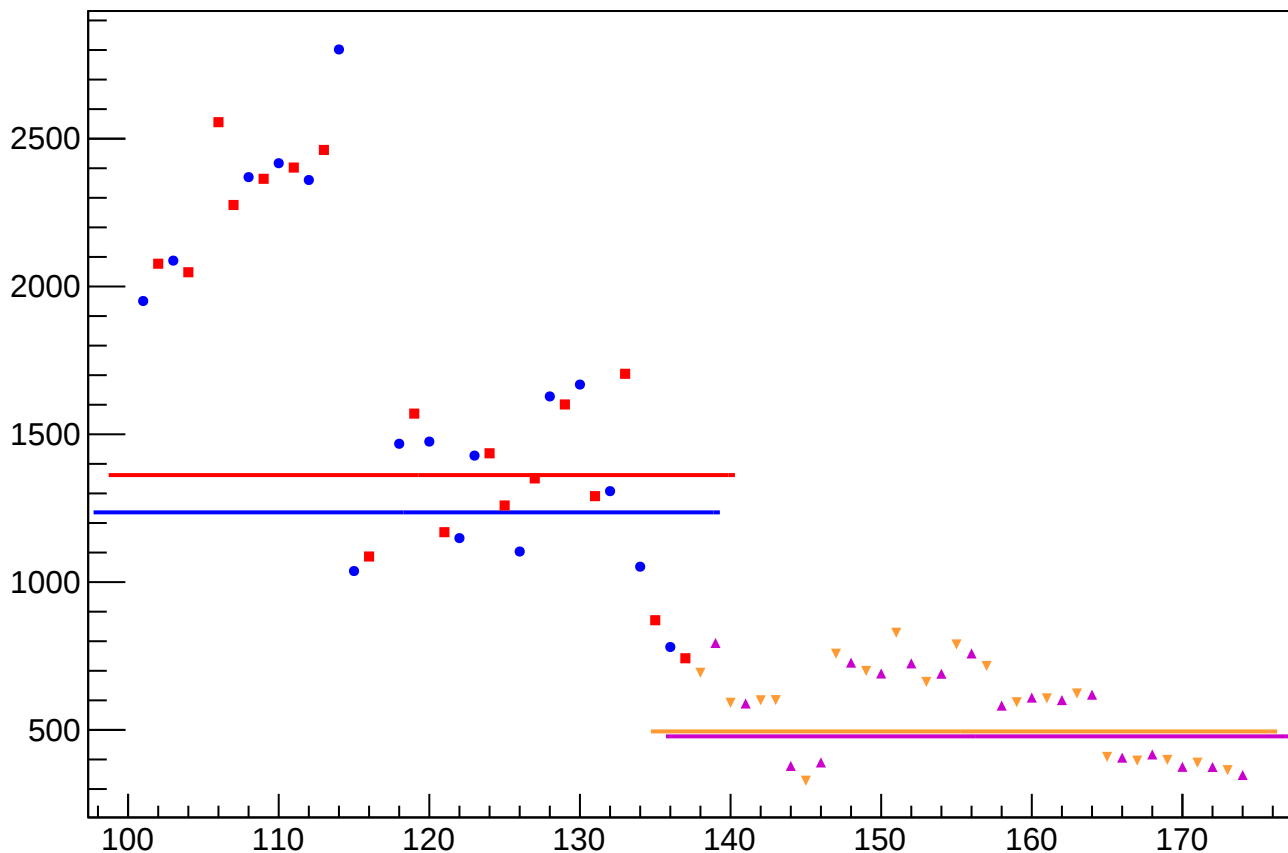
Right: 516.685+/-374.869  $\chi^2/\text{NDF}$ : 32.9/34

In: 108.624+/-128.717  $\chi^2/\text{NDF}$ : 50.0/34

Out: 466.074+/-132.906  $\chi^2/\text{NDF}$ : 54.6/36

All: 281.627+/-92.462  $\chi^2/\text{NDF}$ : 108.3/71

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 494.906+/-0.097  $\chi^2/\text{NDF}$ : 2381920.9/18

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

Left In: 478.210+/-0.094  $\chi^2/\text{NDF}$ : 2205912.2/17

Left: 486.309+/-0.067  $\chi^2/\text{NDF}$ : 4603129.8/36

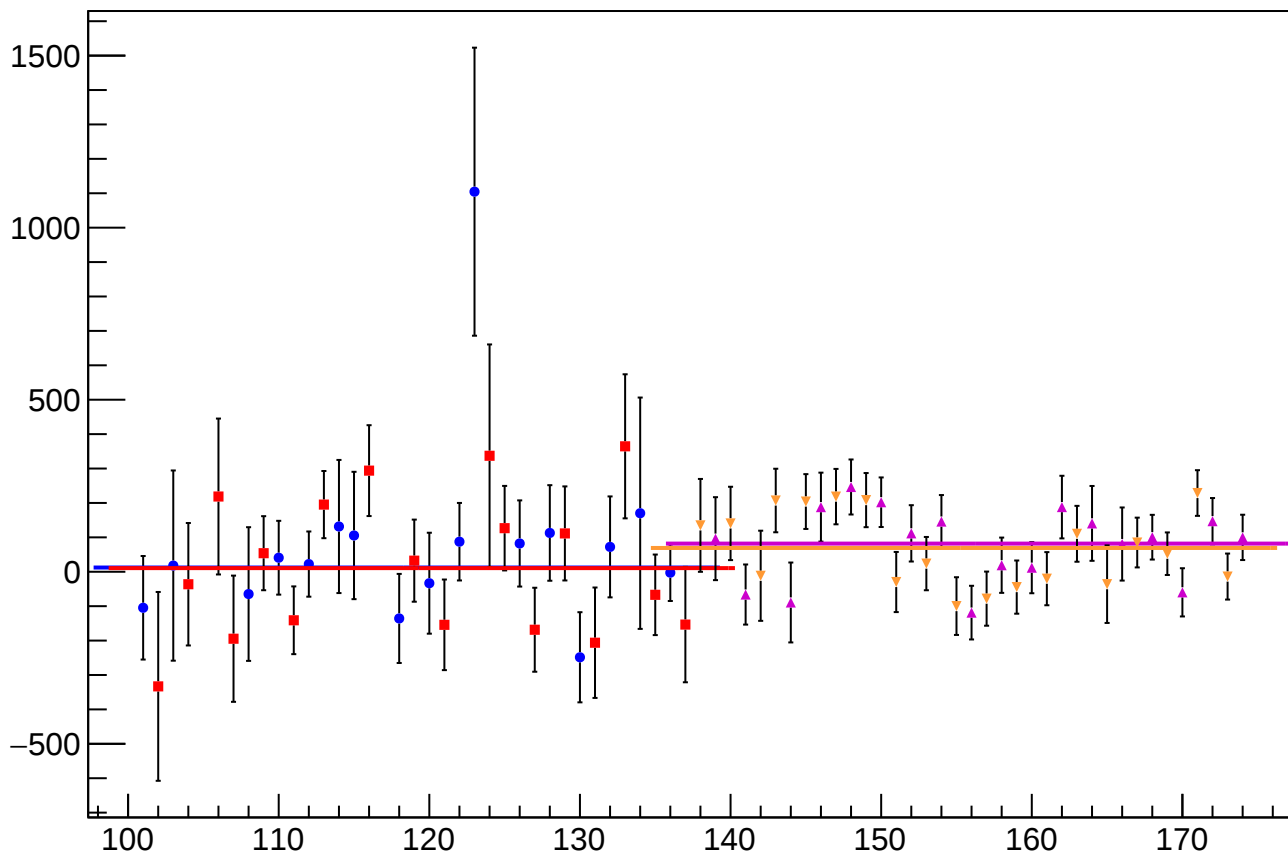
Right: 1294.931+/-0.265  $\chi^2/\text{NDF}$ : 3511356.6/34

In: 525.771+/-0.091  $\chi^2/\text{NDF}$ : 8028867.4/34

Out: 545.879+/-0.094  $\chi^2/\text{NDF}$ : 8801833.8/36

All: 535.503+/-0.065  $\chi^2/\text{NDF}$ : 16854323.1/73

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 12.308 $\pm$ 33.228  $\chi^2$ /NDF: 15.4/16

Left Out: 69.163 $\pm$ 18.691  $\chi^2$ /NDF:34.0/18

Right Out: 10.591 $\pm$ 32.606  $\chi^2$ /NDF: 26.7/17

Left In: 81.852 $\pm$ 19.147  $\chi^2$ /NDF:29.0/17

Left: 75.354 $\pm$ 13.375  $\chi^2$ /NDF: 63.2/36

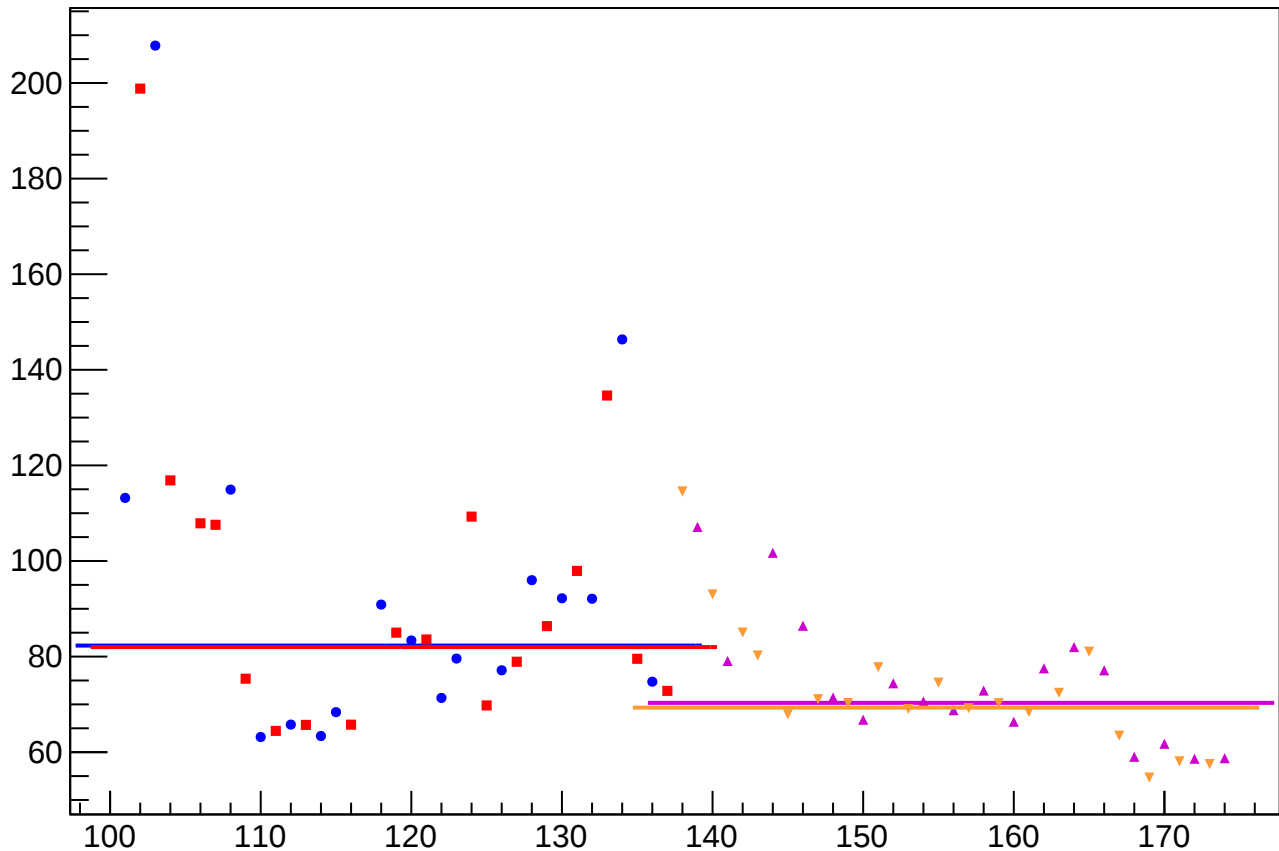
Right: 11.434 $\pm$ 23.273  $\chi^2$ /NDF: 42.1/34

In: 64.516 $\pm$ 16.590  $\chi^2$ /NDF:47.6/34

Out: 54.676 $\pm$ 16.216  $\chi^2$ /NDF:63.2/36

All: 59.484 $\pm$ 11.596  $\chi^2$ /NDF: 111.0/71

dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 82.306+/-0.023  $\chi^2/\text{NDF}$ : 868742.4/16

Left Out: 69.324+/-0.013  $\chi^2/\text{NDF}$ : 678389.5/18

Right Out: 81.987+/-0.023  $\chi^2/\text{NDF}$ : 853217.2/17

Left In: 70.317+/-0.014  $\chi^2/\text{NDF}$ : 679746.8/17

Left: 69.809+/-0.009  $\chi^2/\text{NDF}$ : 1360893.2/36

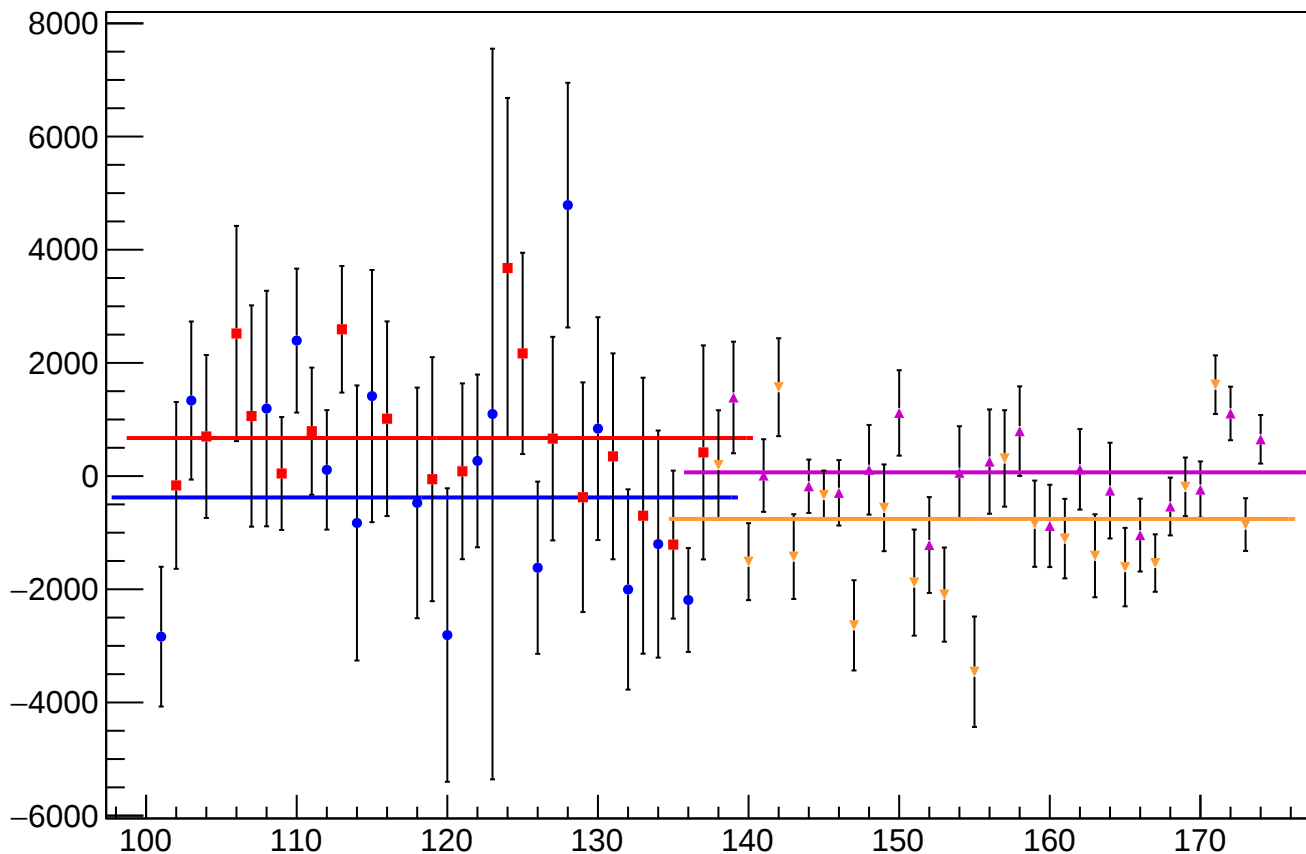
Right: 82.144+/-0.016  $\chi^2/\text{NDF}$ : 1722053.3/34

In: 73.306+/-0.012  $\chi^2/\text{NDF}$ : 1743937.0/34

Out: 72.456+/-0.011  $\chi^2/\text{NDF}$ : 1758666.0/36

All: 72.871+/-0.008  $\chi^2/\text{NDF}$ : 3505286.6/71

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}: 24.5/16$

Left Out:  $-757.247 \pm 151.435$   $\chi^2/\text{NDF}: 57.2/18$

Right Out:  $673.192 \pm 368.624$   $\chi^2/\text{NDF}: 9.4/17$

Left In:  $66.175 \pm 148.418$   $\chi^2/\text{NDF}: 20.9/17$

Left:  $-337.253 \pm 105.998$   $\chi^2/\text{NDF}: 93.1/36$

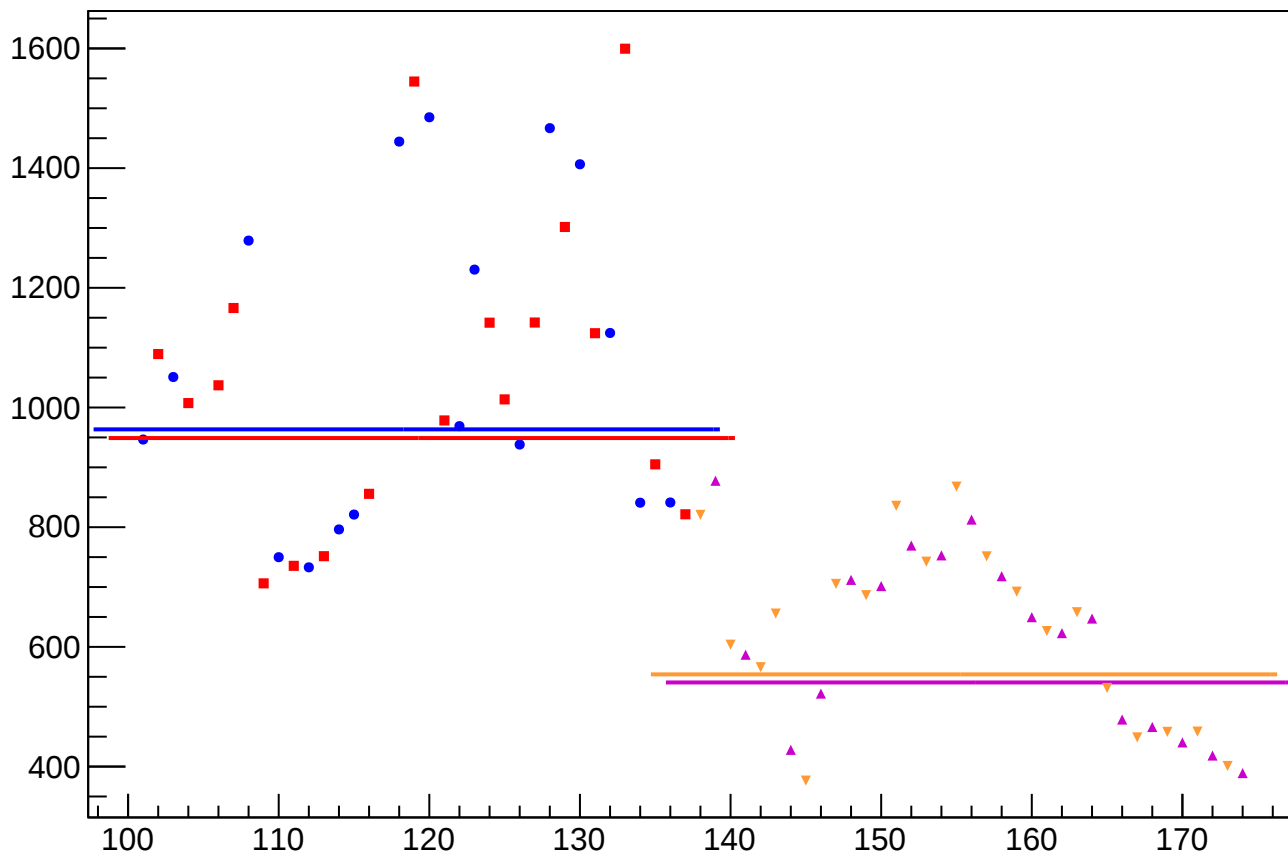
Right:  $169.244 \pm 265.892$   $\chi^2/\text{NDF}: 37.7/34$

In:  $8.505 \pm 138.433$   $\chi^2/\text{NDF}: 46.5/34$

Out:  $-550.696 \pm 140.075$   $\chi^2/\text{NDF}: 79.4/36$

All:  $-267.798 \pm 98.462$   $\chi^2/\text{NDF}: 134.0/71$

asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 963.469 $\pm$ 0.271  $\chi^2$ /NDF: 688873.3/16

Left Out: 554.069 $\pm$ 0.107  $\chi^2$ /NDF:1832588.7/18

Right Out: 948.947 $\pm$ 0.261  $\chi^2$ /NDF: 729378.3/17

Left In: 540.548 $\pm$ 0.105  $\chi^2$ /NDF:1727776.2/17

Left: 547.173 $\pm$ 0.075  $\chi^2$ /NDF: 3568497.6/36

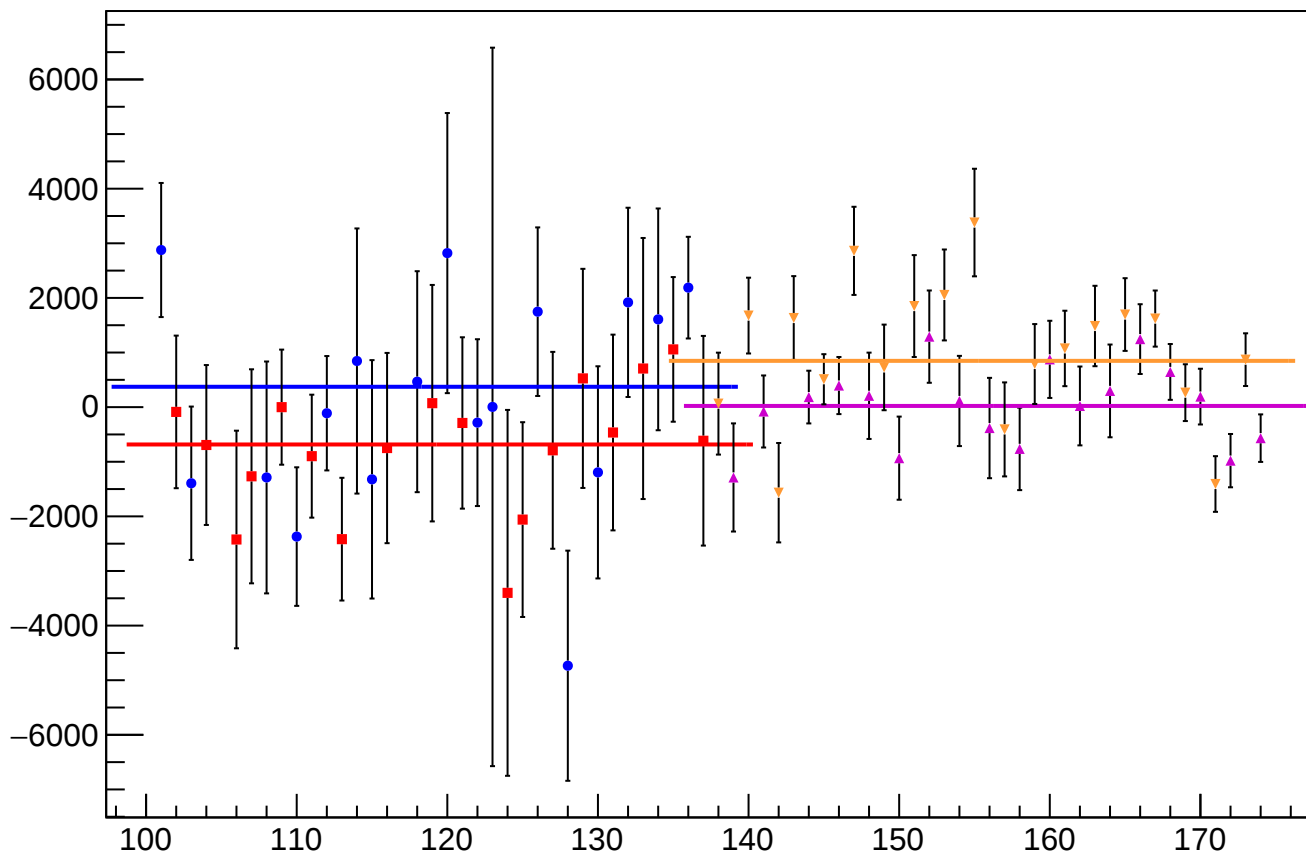
Right: 955.914 $\pm$ 0.188  $\chi^2$ /NDF: 1419740.5/34

In: 595.541 $\pm$ 0.098  $\chi^2$ /NDF:4528300.7/34

Out: 611.088 $\pm$ 0.099  $\chi^2$ /NDF:4525607.7/36

All: 603.223 $\pm$ 0.070  $\chi^2$ /NDF: 9066373.1/71

# 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:  $847.599 \pm 153.004$   $\chi^2/\text{NDF}$ : 54.6/18

Right Out:  $-683.612 \pm 372.418$   $\chi^2/\text{NDF}$ : 7.8/17

Left In:  $22.065 \pm 148.562$   $\chi^2/\text{NDF}$ : 20.5/17

Left:  $422.675 \pm 106.585$   $\chi^2/\text{NDF}$ : 90.0/36

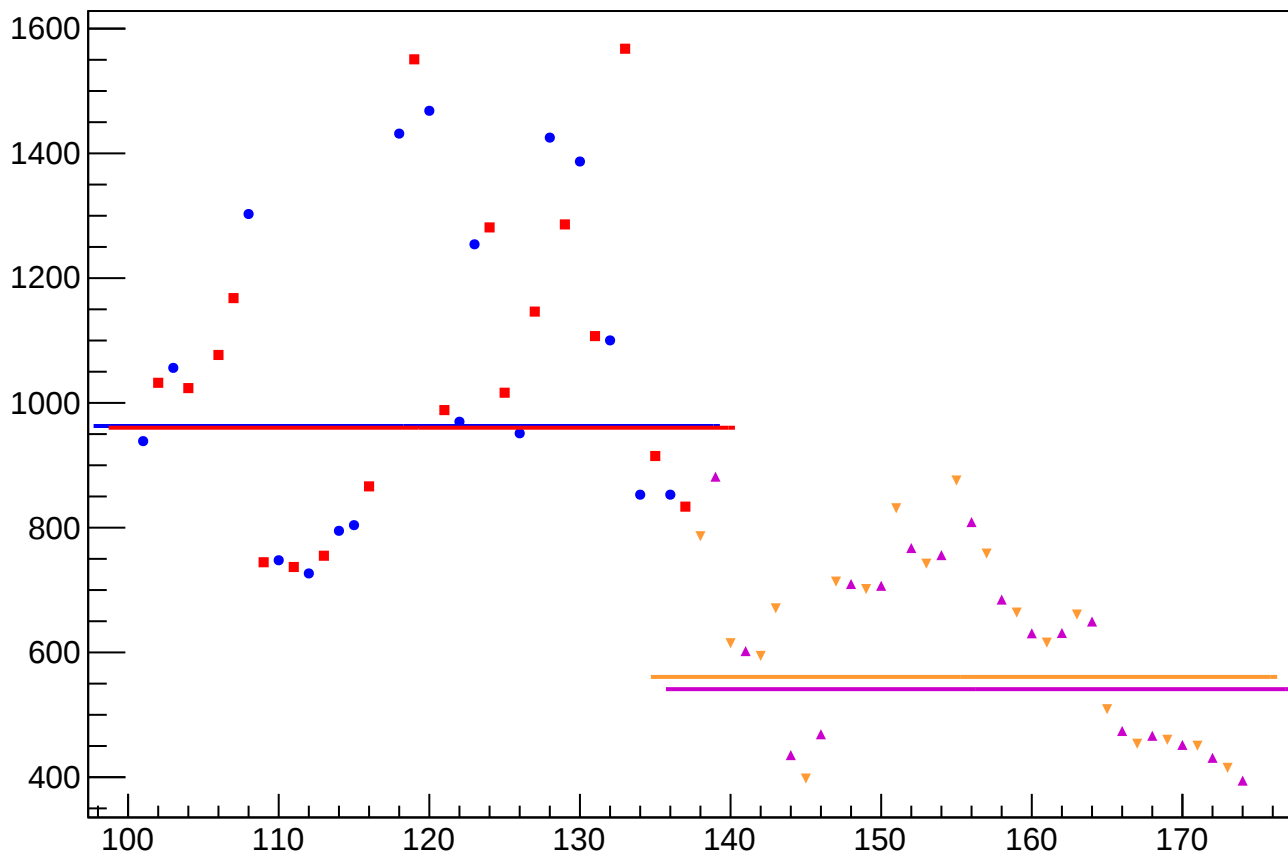
Right:  $-171.066 \pm 267.226$   $\chi^2/\text{NDF}$ : 36.9/34

In:  $67.810 \pm 138.538$   $\chi^2/\text{NDF}$ : 46.5/34

Out:  $626.471 \pm 141.525$   $\chi^2/\text{NDF}$ : 76.8/36

All:  $341.183 \pm 99.001$   $\chi^2/\text{NDF}$ : 131.2/71

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 962.971+/-0.271  $\chi^2/\text{NDF}$ : 667521.9/16

Left Out: 560.719+/-0.108  $\chi^2/\text{NDF}$ : 1673750.1/18

Right Out: 960.218+/-0.263  $\chi^2/\text{NDF}$ : 671009.3/17

Left In: 541.134+/-0.105  $\chi^2/\text{NDF}$ : 1645632.1/17

Left: 550.638+/-0.075  $\chi^2/\text{NDF}$ : 3336249.5/36

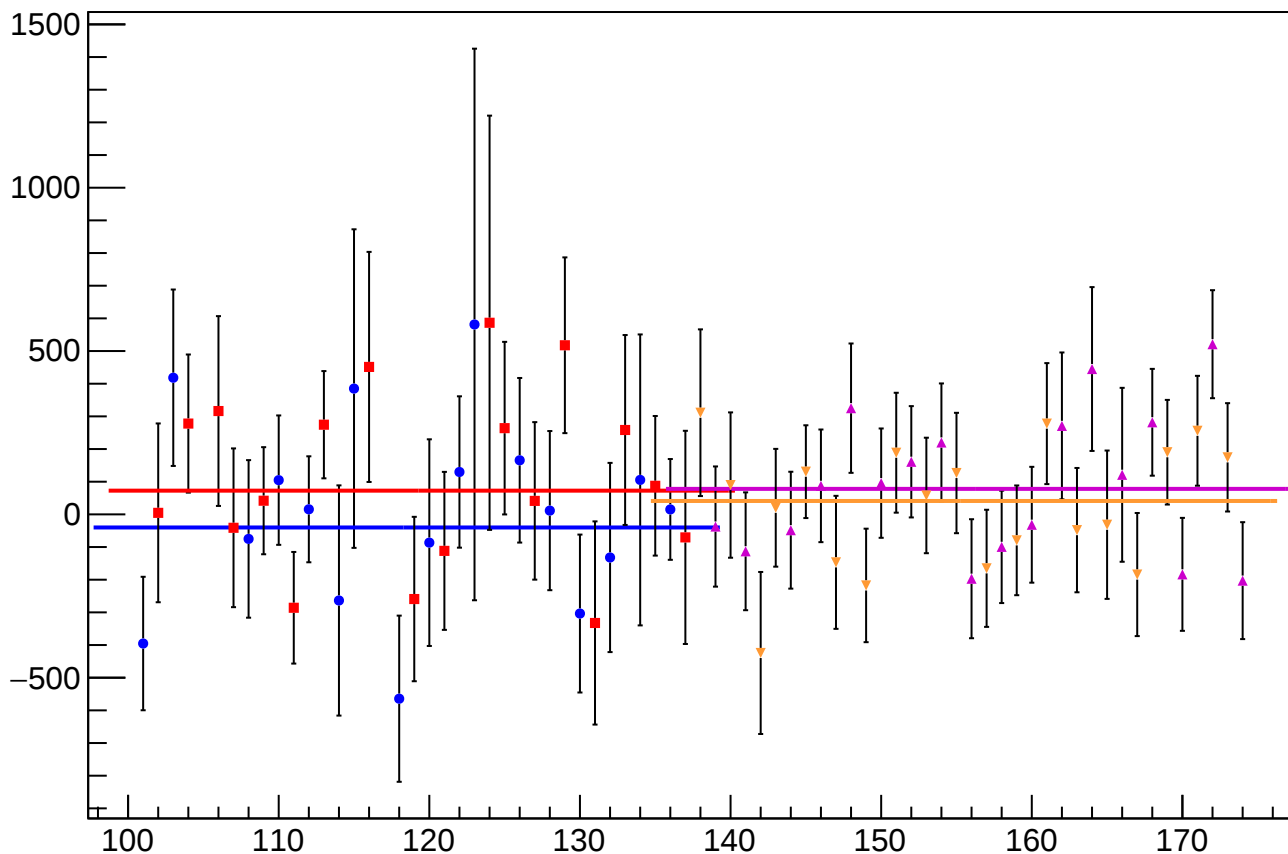
Right: 961.553+/-0.189  $\chi^2/\text{NDF}$ : 1338584.2/34

In: 596.137+/-0.098  $\chi^2/\text{NDF}$ : 4415703.0/34

Out: 618.412+/-0.100  $\chi^2/\text{NDF}$ : 4313839.5/36

All: 607.037+/-0.070  $\chi^2/\text{NDF}$ : 8754842.7/71

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: 41.008 $\pm$ 42.177  $\chi^2/\text{NDF}$ : 17.4/18

Right Out: 72.607 $\pm$ 56.313  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 78.048 $\pm$ 43.208  $\chi^2/\text{NDF}$ : 24.6/17

Left: 59.080 $\pm$ 30.182  $\chi^2/\text{NDF}$ : 42.3/36

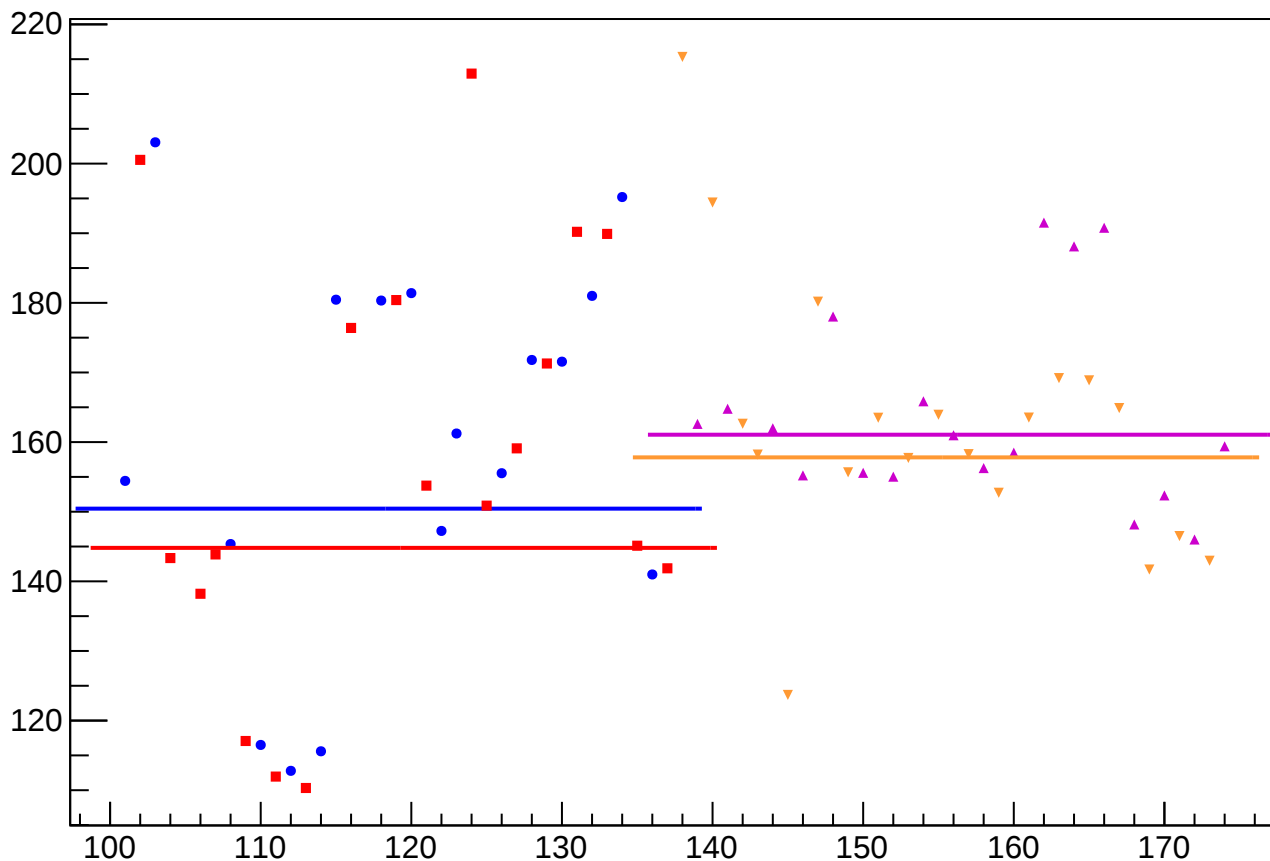
Right: 19.111 $\pm$ 40.820  $\chi^2/\text{NDF}$ : 34.8/34

In: 37.027 $\pm$ 34.913  $\chi^2/\text{NDF}$ : 42.5/34

Out: 52.363 $\pm$ 33.758  $\chi^2/\text{NDF}$ : 35.2/36

All: 44.953 $\pm$ 24.268  $\chi^2/\text{NDF}$ : 77.8/71

dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 150.442 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 400121.4/16

Left Out: 157.806 $\pm$ 0.030  $\chi^2/\text{NDF}$ :364331.3/18

Right Out: 144.807 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 503863.1/17

Left In: 161.061 $\pm$ 0.031  $\chi^2/\text{NDF}$ :145282.4/17

Left: 159.394 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 515425.6/36

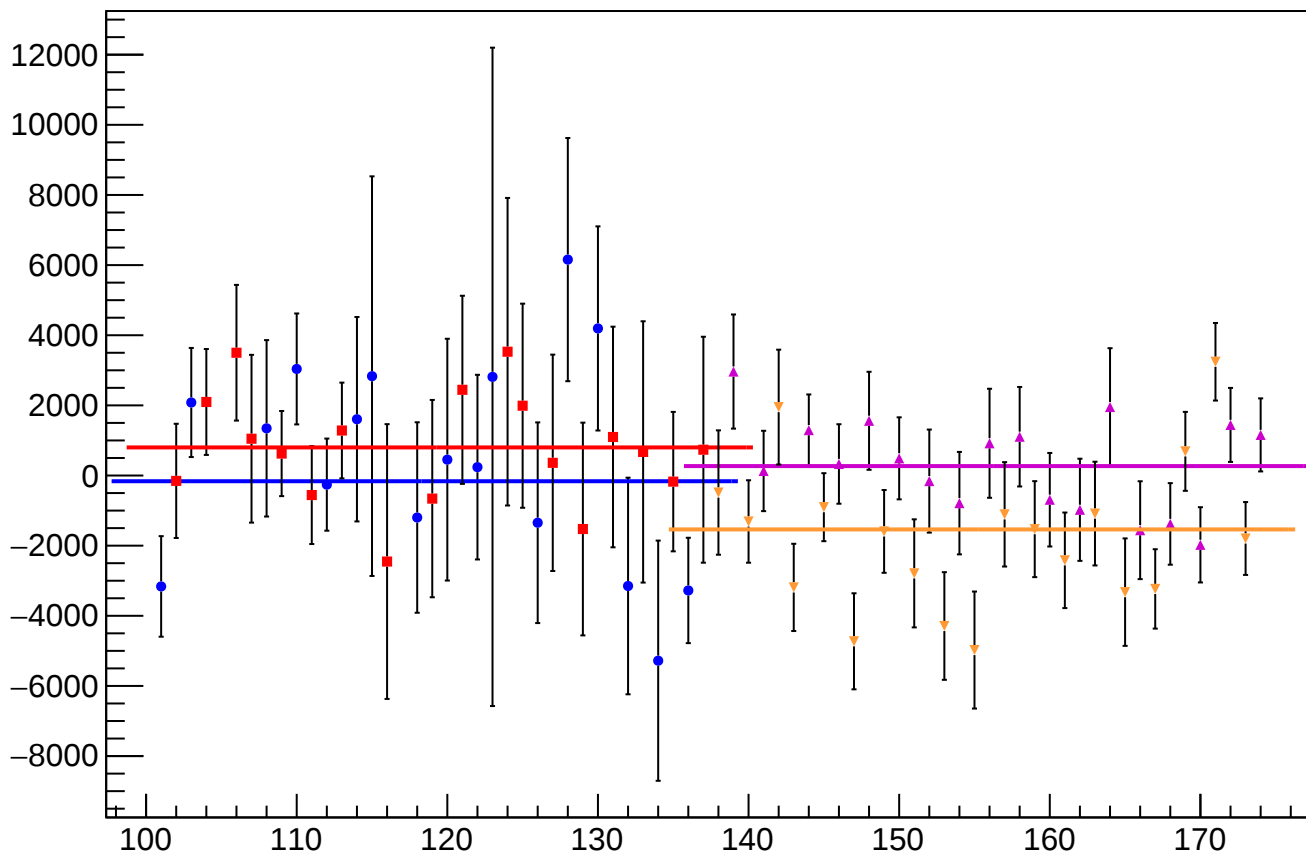
Right: 147.481 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 913486.7/34

In: 157.375 $\pm$ 0.025  $\chi^2/\text{NDF}$ :587337.1/34

Out: 153.135 $\pm$ 0.024  $\chi^2/\text{NDF}$ :936462.3/36

All: 155.183 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 1539044.3/71

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}: 25.1/16$

Left Out:  $-1537.022 \pm 297.432$   $\chi^2/\text{NDF}: 47.5/18$

Right Out:  $801.139 \pm 486.610$   $\chi^2/\text{NDF}: 6.9/17$

Left In:  $269.019 \pm 297.458$   $\chi^2/\text{NDF}: 18.1/17$

Left:  $-634.080 \pm 210.326$   $\chi^2/\text{NDF}: 84.1/36$

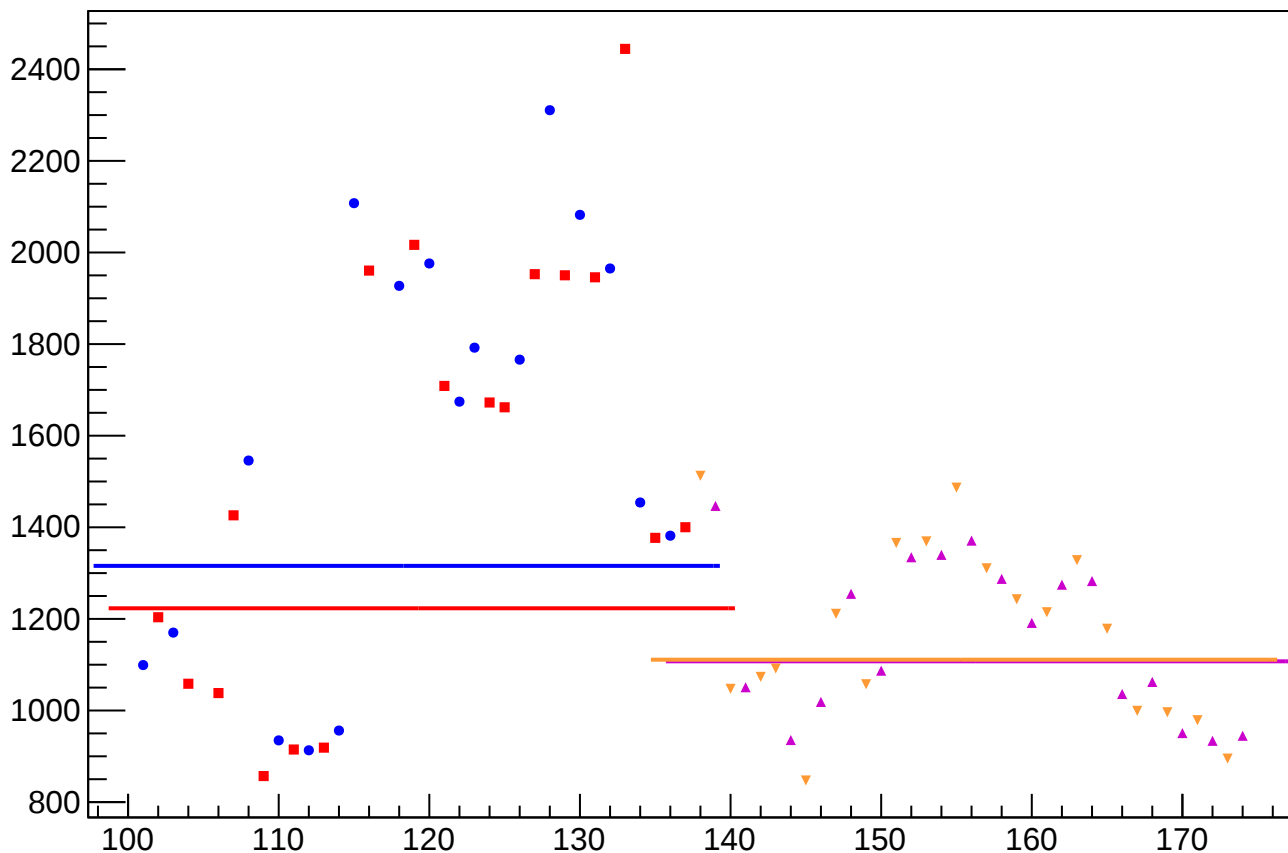
Right:  $363.081 \pm 359.419$   $\chi^2/\text{NDF}: 33.7/34$

In:  $166.513 \pm 259.765$   $\chi^2/\text{NDF}: 43.7/34$

Out:  $-901.067 \pm 253.780$   $\chi^2/\text{NDF}: 71.2/36$

All:  $-379.718 \pm 181.529$   $\chi^2/\text{NDF}: 123.6/71$

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1315.784 $\pm$ 0.377  $\chi^2$ /NDF: 1118346.6/16

Left Out: 1110.943 $\pm$ 0.210  $\chi^2$ /NDF: 754038.8/18

Right Out: 1223.179 $\pm$ 0.344  $\chi^2$ /NDF: 1363055.0/17

Left In: 1107.393 $\pm$ 0.210  $\chi^2$ /NDF: 581979.0/17

Left: 1109.168 $\pm$ 0.149  $\chi^2$ /NDF: 1336160.2/36

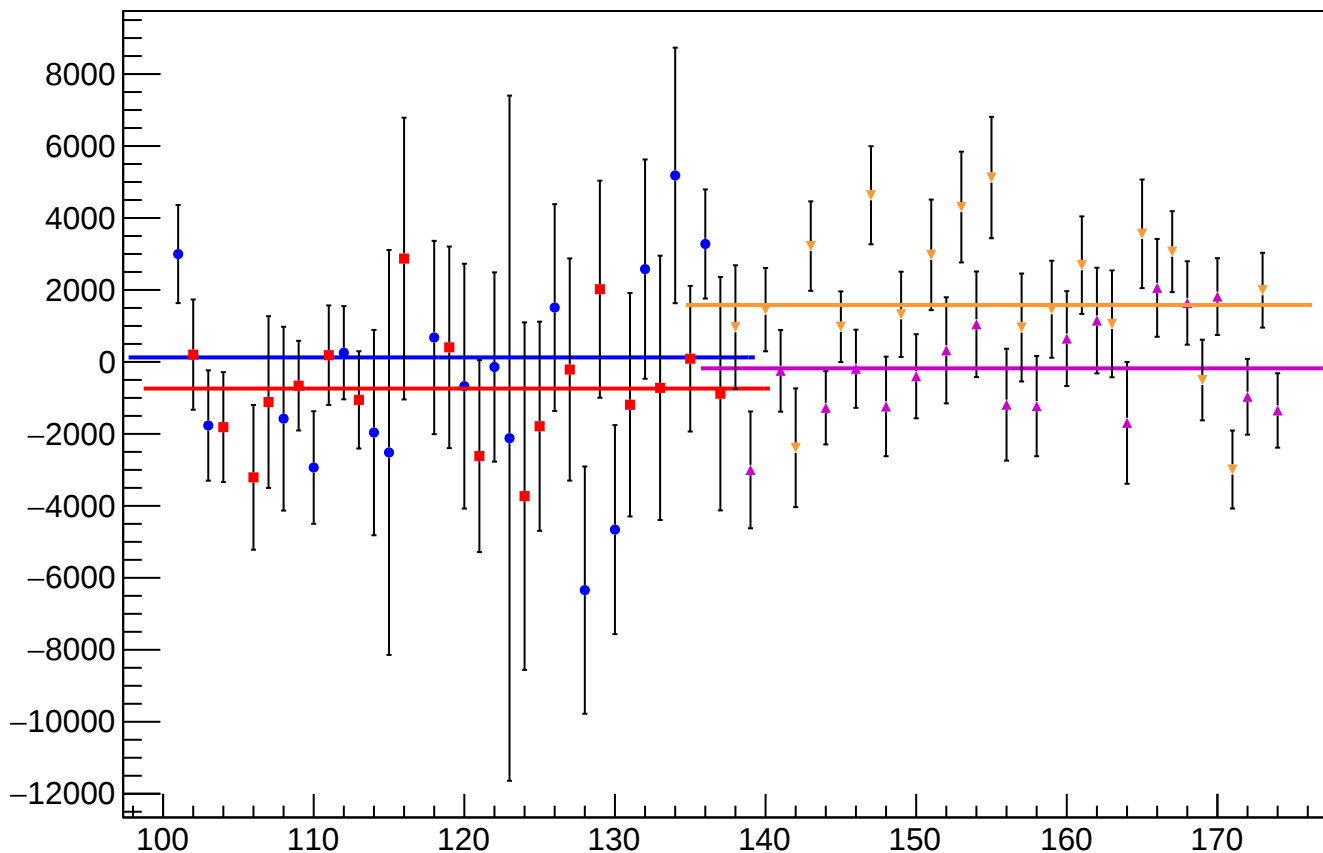
Right: 1265.263 $\pm$ 0.254  $\chi^2$ /NDF: 2514318.9/34

In: 1156.860 $\pm$ 0.184  $\chi^2$ /NDF: 1933336.5/34

Out: 1141.470 $\pm$ 0.179  $\chi^2$ /NDF: 2194551.8/36

All: 1148.986 $\pm$ 0.128  $\chi^2$ /NDF: 4131480.5/71

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1582.307 $\pm$ 296.450  $\chi^2$ /NDF:47.3/18

Right Out: -739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

Left In: -178.227 $\pm$ 295.324  $\chi^2$ /NDF:19.1/17

Left: 698.691 $\pm$ 209.222  $\chi^2$ /NDF: 84.1/36

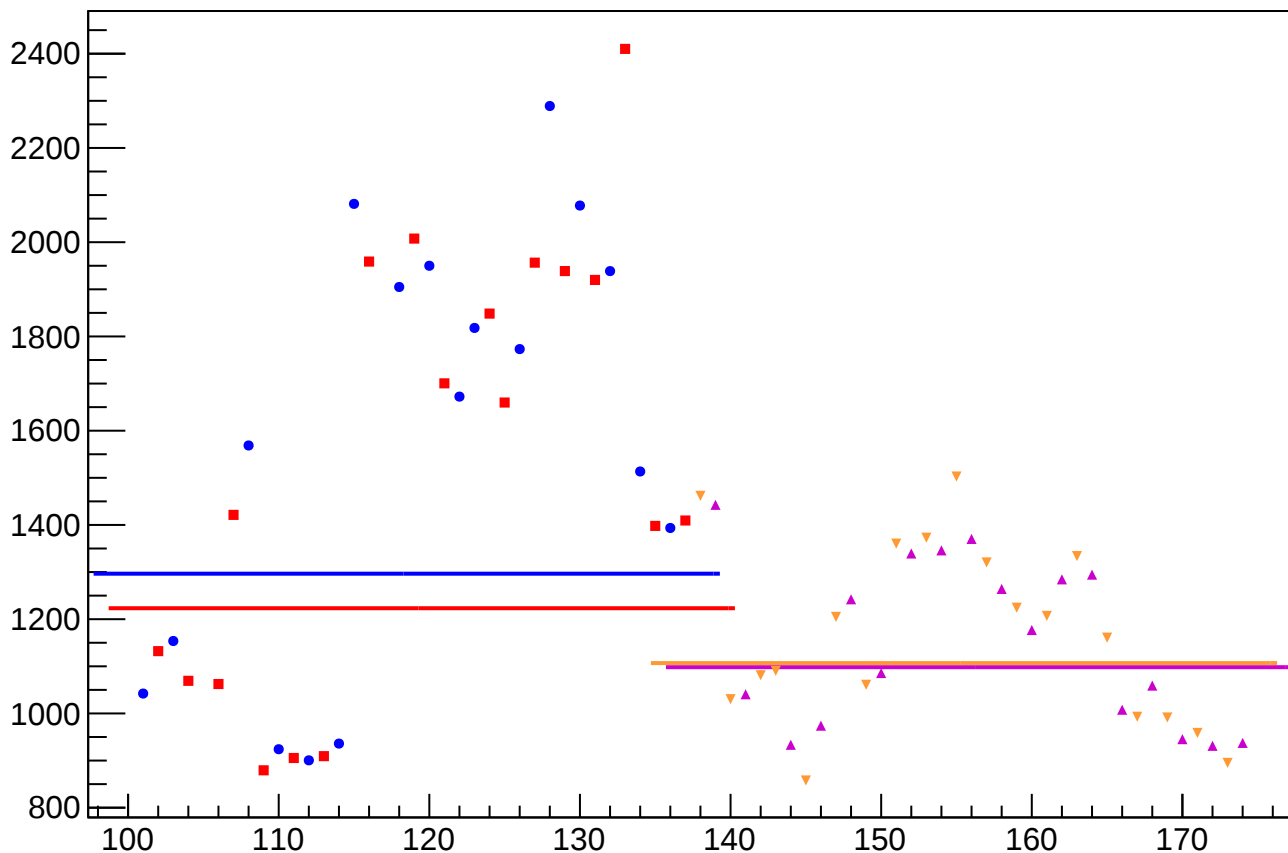
Right: -341.379 $\pm$ 357.529  $\chi^2$ /NDF: 32.1/34

In: -105.629 $\pm$ 257.606  $\chi^2$ /NDF:44.0/34

Out: 954.088 $\pm$ 253.196  $\chi^2$ /NDF:69.9/36

All: 433.377 $\pm$ 180.576  $\chi^2$ /NDF: 122.5/71

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 1296.573 $\pm$ 0.373  $\chi^2$ /NDF: 1175465.2/16

Left Out: 1106.900 $\pm$ 0.210  $\chi^2$ /NDF: 739231.1/18

Right Out: 1223.274 $\pm$ 0.344  $\chi^2$ /NDF: 1346689.2/17

Left In: 1098.148 $\pm$ 0.209  $\chi^2$ /NDF: 612794.9/17

Left: 1102.507 $\pm$ 0.148  $\chi^2$ /NDF: 1352901.0/36

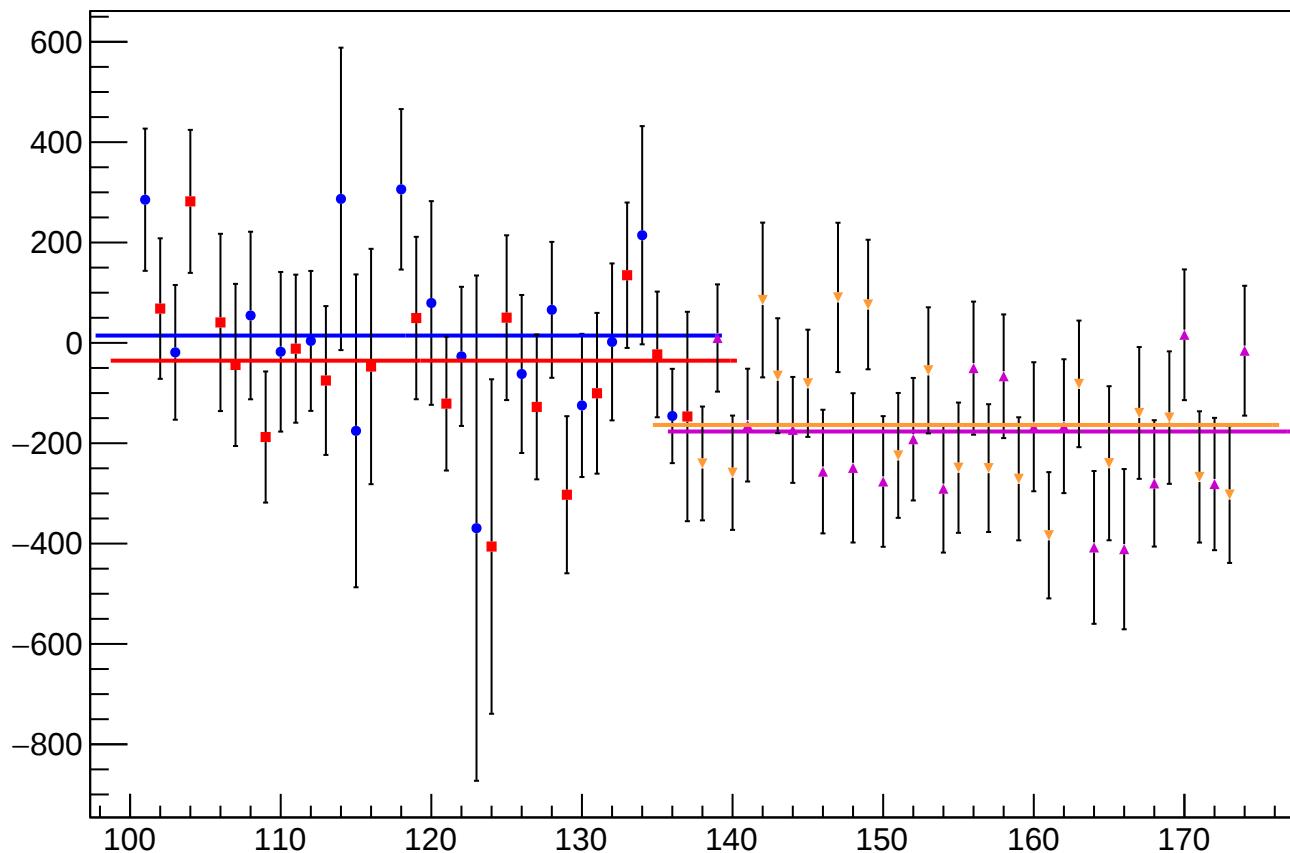
Right: 1257.036 $\pm$ 0.253  $\chi^2$ /NDF: 2543039.6/34

In: 1145.596 $\pm$ 0.182  $\chi^2$ /NDF: 2004157.2/34

Out: 1138.382 $\pm$ 0.179  $\chi^2$ /NDF: 2169296.6/36

All: 1141.926 $\pm$ 0.128  $\chi^2$ /NDF: 4174251.6/71

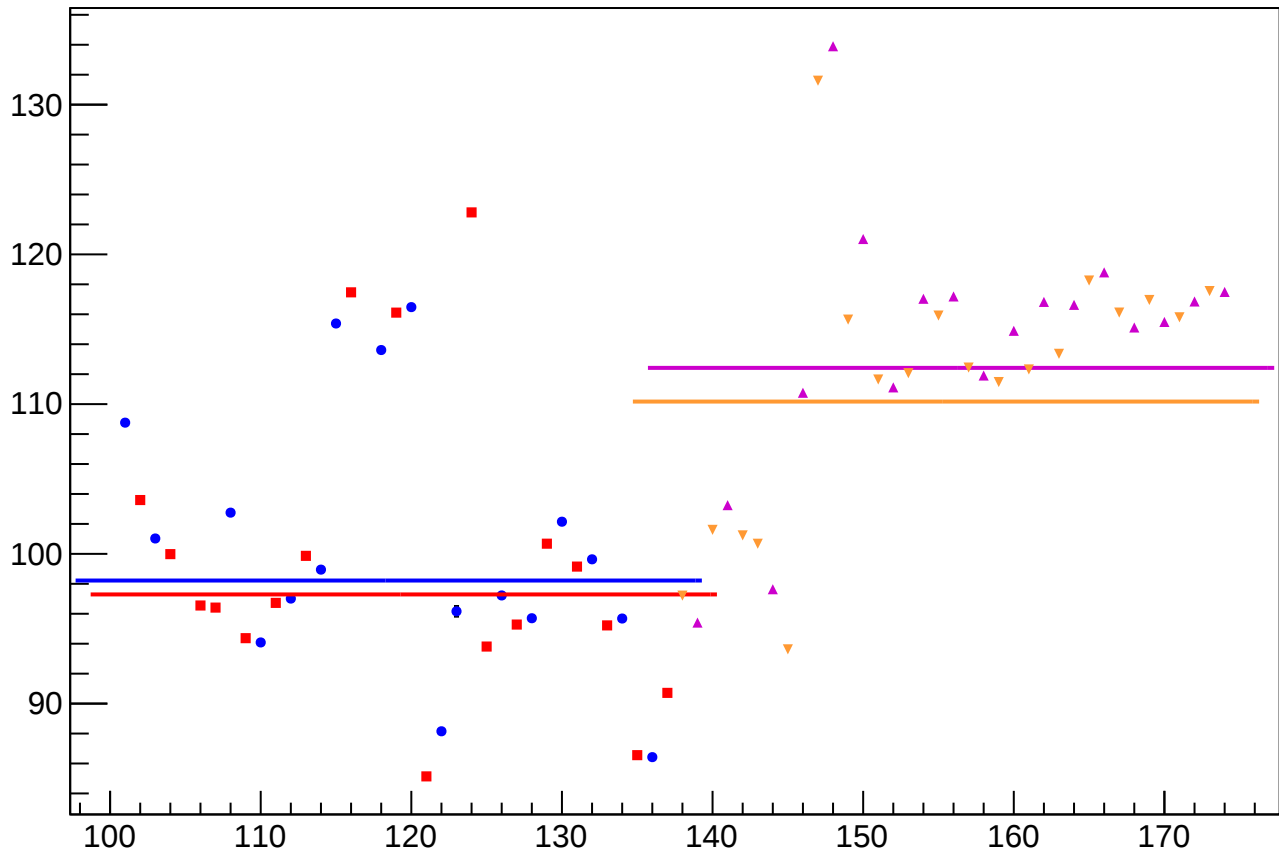
# dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In:  $14.577 \pm 38.017$   $\chi^2/\text{NDF}: 14.2/16$   
 Left Out:  $-163.567 \pm 29.143$   $\chi^2/\text{NDF}: 19.5/18$   
 Right Out:  $-35.475 \pm 36.728$   $\chi^2/\text{NDF}: 14.5/17$   
 Left In:  $-176.613 \pm 29.931$   $\chi^2/\text{NDF}: 16.3/17$

Left:  $-169.916 \pm 20.880$   $\chi^2/\text{NDF}: 36.0/36$   
 Right:  $-11.312 \pm 26.414$   $\chi^2/\text{NDF}: 29.6/34$   
 In:  $-103.452 \pm 23.517$   $\chi^2/\text{NDF}: 46.1/34$   
 Out:  $-114.076 \pm 22.829$   $\chi^2/\text{NDF}: 41.5/36$   
 All:  $-108.922 \pm 16.381$   $\chi^2/\text{NDF}: 87.8/71$

dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.219+/-0.027  $\chi^2/\text{NDF}$ : 100510.4/16

Left Out: 110.171+/-0.021  $\chi^2/\text{NDF}$ : 182789.4/18

Right Out: 97.290+/-0.026  $\chi^2/\text{NDF}$ : 96216.6/17

Left In: 112.421+/-0.021  $\chi^2/\text{NDF}$ : 174475.1/17

Left: 111.266+/-0.015  $\chi^2/\text{NDF}$ : 363063.9/36

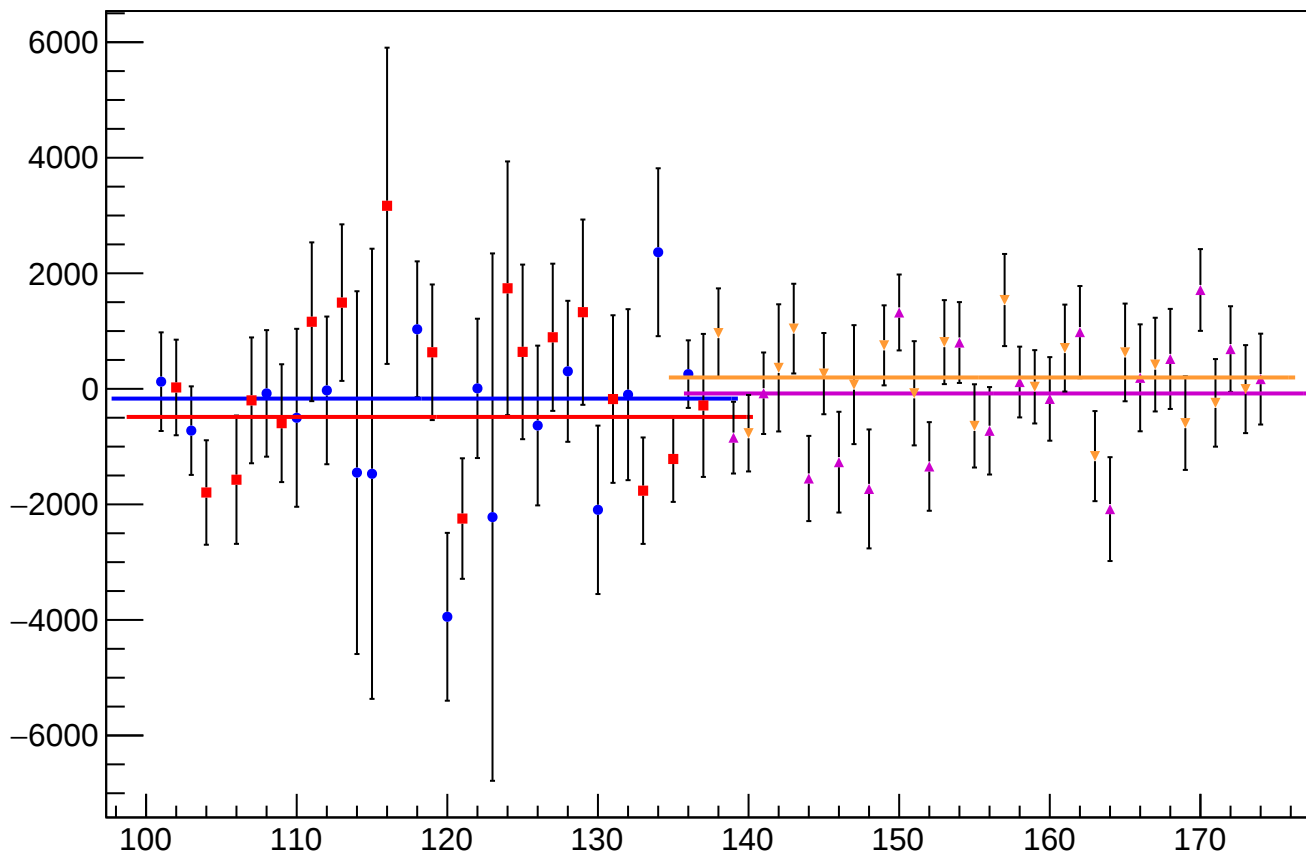
Right: 97.739+/-0.019  $\chi^2/\text{NDF}$ : 197344.2/34

In: 106.986+/-0.017  $\chi^2/\text{NDF}$ : 447283.9/34

Out: 105.194+/-0.016  $\chi^2/\text{NDF}$ : 429953.4/36

All: 106.064+/-0.012  $\chi^2/\text{NDF}$ : 883215.0/71

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -168.802 $\pm$ 282.178  $\chi^2$ /NDF: 14.6/16

Left Out: 196.736 $\pm$ 177.028  $\chi^2$ /NDF:15.2/18

Right Out: -486.312 $\pm$ 268.010  $\chi^2$ /NDF: 19.6/17

Left In: -80.038 $\pm$ 177.262  $\chi^2$ /NDF:34.5/17

Left: 58.532 $\pm$ 125.261  $\chi^2$ /NDF: 51.0/36

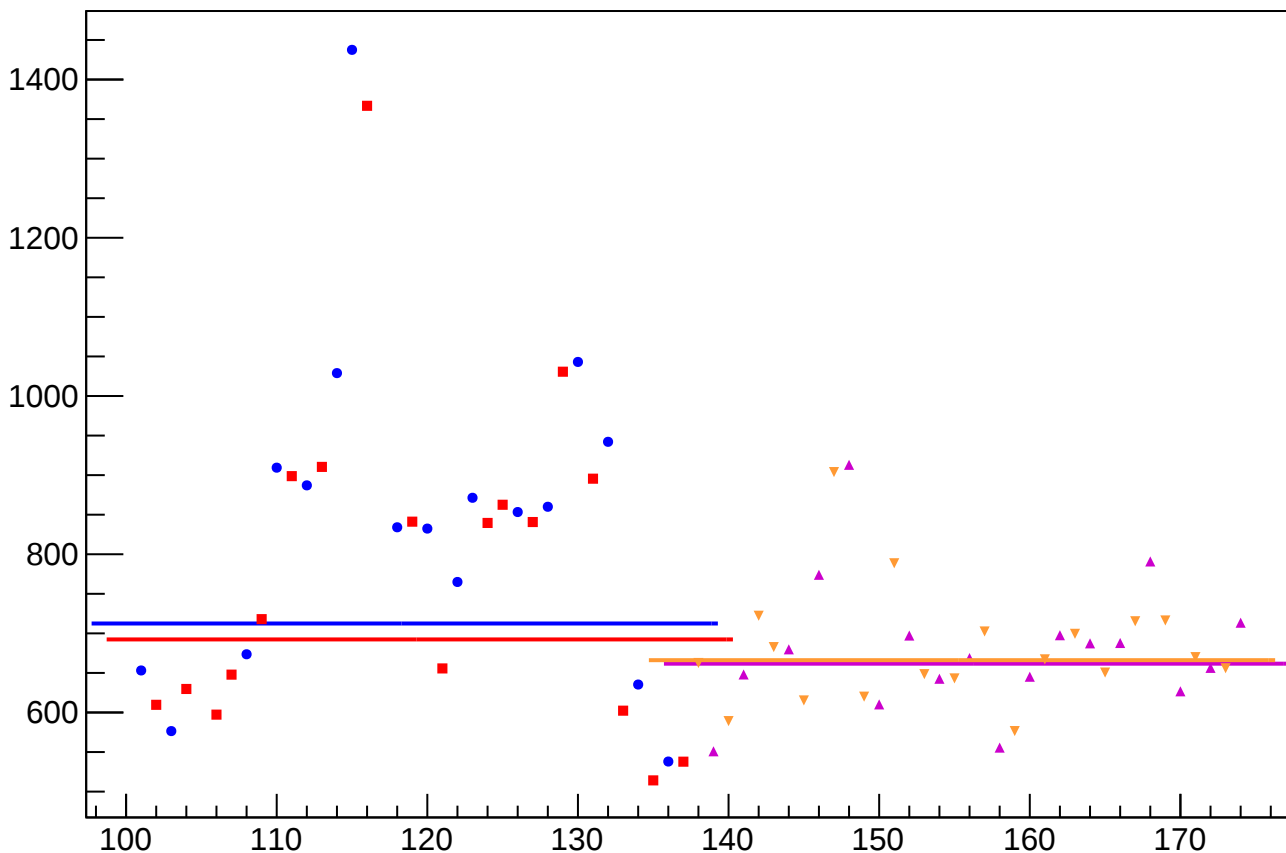
Right: -335.728 $\pm$ 194.327  $\chi^2$ /NDF: 34.9/34

In: -105.155 $\pm$ 150.102  $\chi^2$ /NDF:49.2/34

Out: -10.751 $\pm$ 147.713  $\chi^2$ /NDF:39.4/36

All: -57.196 $\pm$ 105.284  $\chi^2$ /NDF: 88.7/71

asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 712.476 $\pm$ 0.200  $\chi^2$ /NDF: 660520.6/16

Left Out: 666.116 $\pm$ 0.125  $\chi^2$ /NDF: 263085.1/18

Right Out: 692.342 $\pm$ 0.190  $\chi^2$ /NDF: 656953.1/17

Left In: 661.689 $\pm$ 0.125  $\chi^2$ /NDF: 362645.6/17

Left: 663.906 $\pm$ 0.089  $\chi^2$ /NDF: 626355.1/36

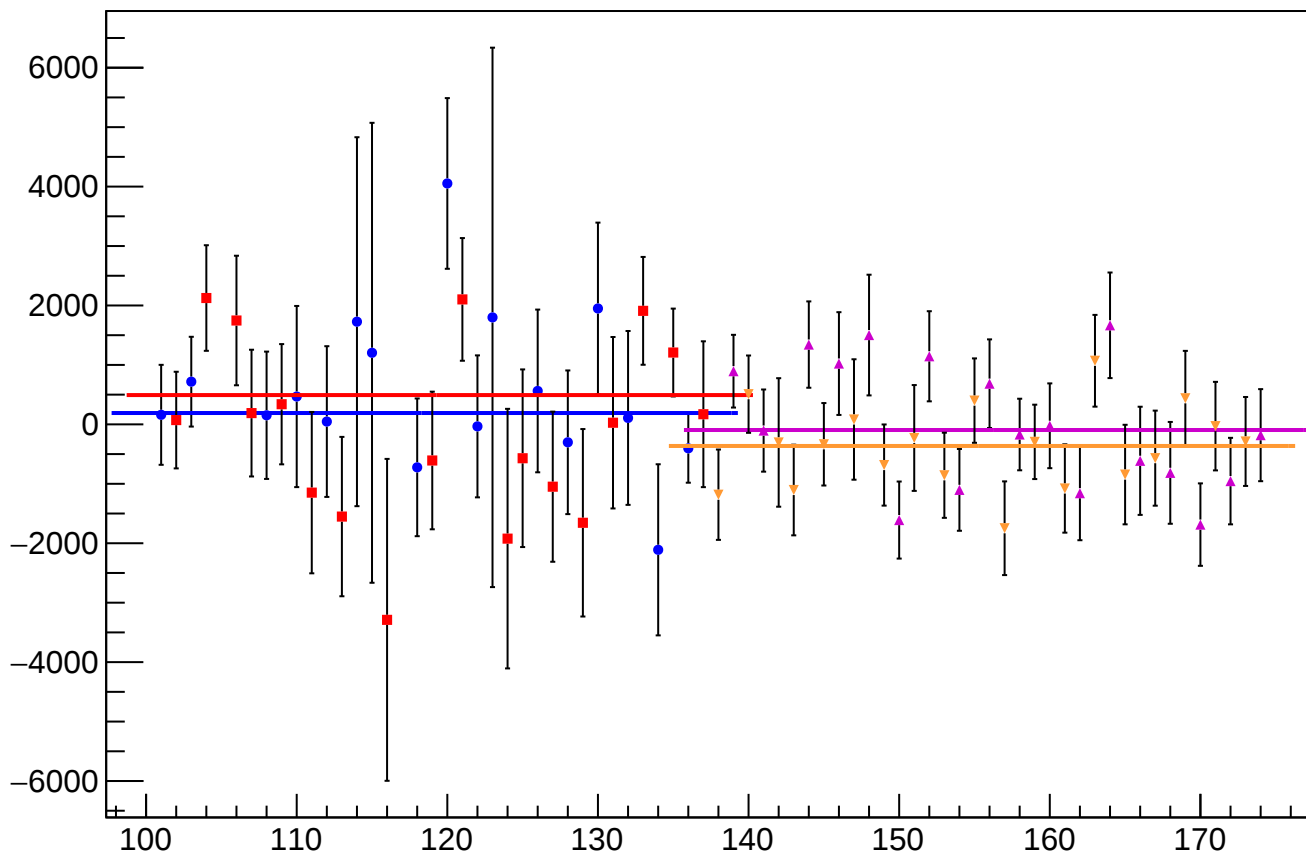
Right: 701.891 $\pm$ 0.137  $\chi^2$ /NDF: 1322826.7/34

In: 676.060 $\pm$ 0.106  $\chi^2$ /NDF: 1069620.0/34

Out: 674.083 $\pm$ 0.104  $\chi^2$ /NDF: 933372.0/36

All: 675.055 $\pm$ 0.074  $\chi^2$ /NDF: 2003168.3/71

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In:  $190.880 \pm 278.670$   $\chi^2/\text{NDF}: 14.2/16$

Left Out:  $-363.536 \pm 174.419$   $\chi^2/\text{NDF}: 15.1/18$

Right Out:  $492.784 \pm 264.629$   $\chi^2/\text{NDF}: 22.8/17$

Left In:  $-94.963 \pm 174.603$   $\chi^2/\text{NDF}: 35.5/17$

Left:  $-229.391 \pm 123.398$   $\chi^2/\text{NDF}: 51.8/36$

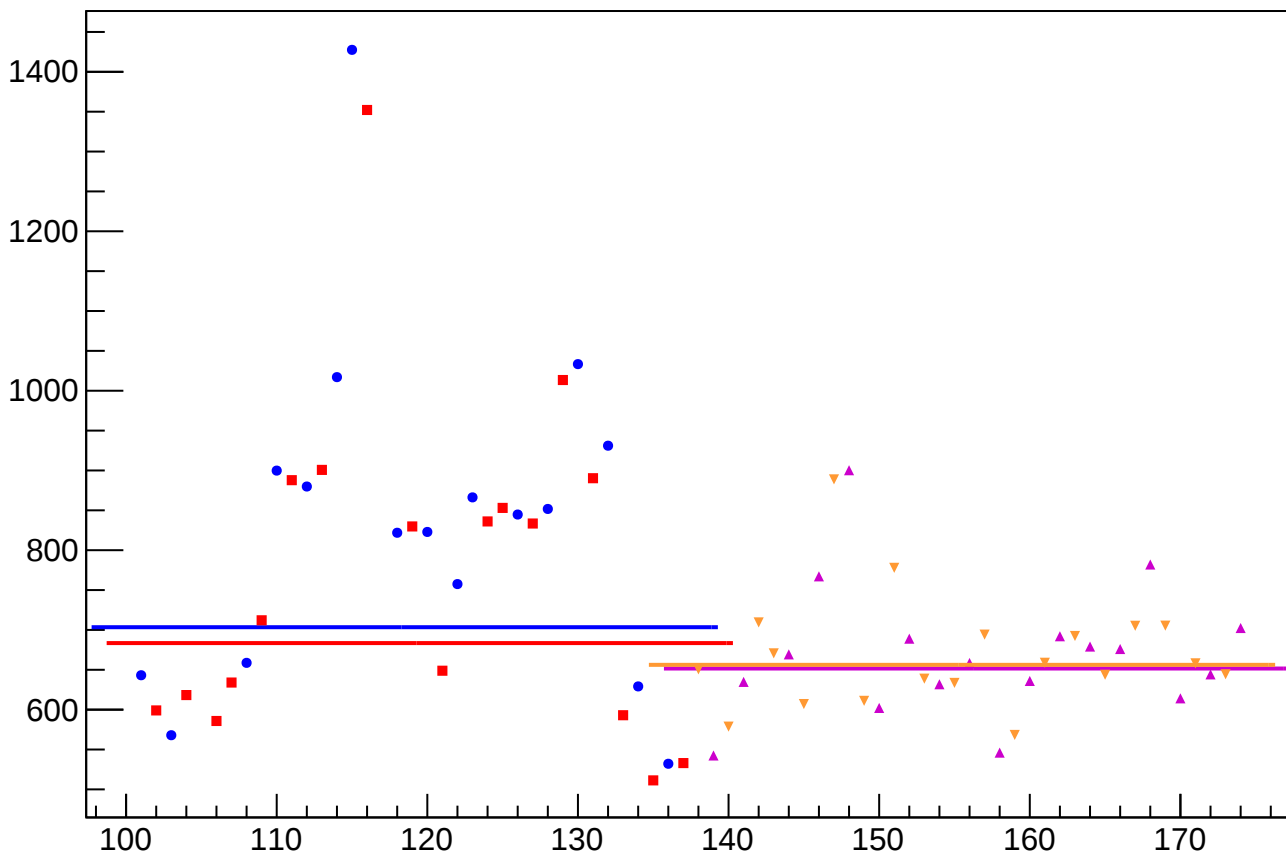
Right:  $349.629 \pm 191.893$   $\chi^2/\text{NDF}: 37.6/34$

In:  $-14.382 \pm 147.959$   $\chi^2/\text{NDF}: 50.5/34$

Out:  $-104.195 \pm 145.632$   $\chi^2/\text{NDF}: 45.1/36$

All:  $-60.000 \pm 103.790$   $\chi^2/\text{NDF}: 95.8/71$

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 703.406 $\pm$ 0.197  $\chi^2$ /NDF: 666885.8/16

Left Out: 656.212 $\pm$ 0.123  $\chi^2$ /NDF: 263519.8/18

Right Out: 683.493 $\pm$ 0.187  $\chi^2$ /NDF: 659356.0/17

Left In: 651.585 $\pm$ 0.123  $\chi^2$ /NDF: 372086.3/17

Left: 653.901 $\pm$ 0.087  $\chi^2$ /NDF: 636308.9/36

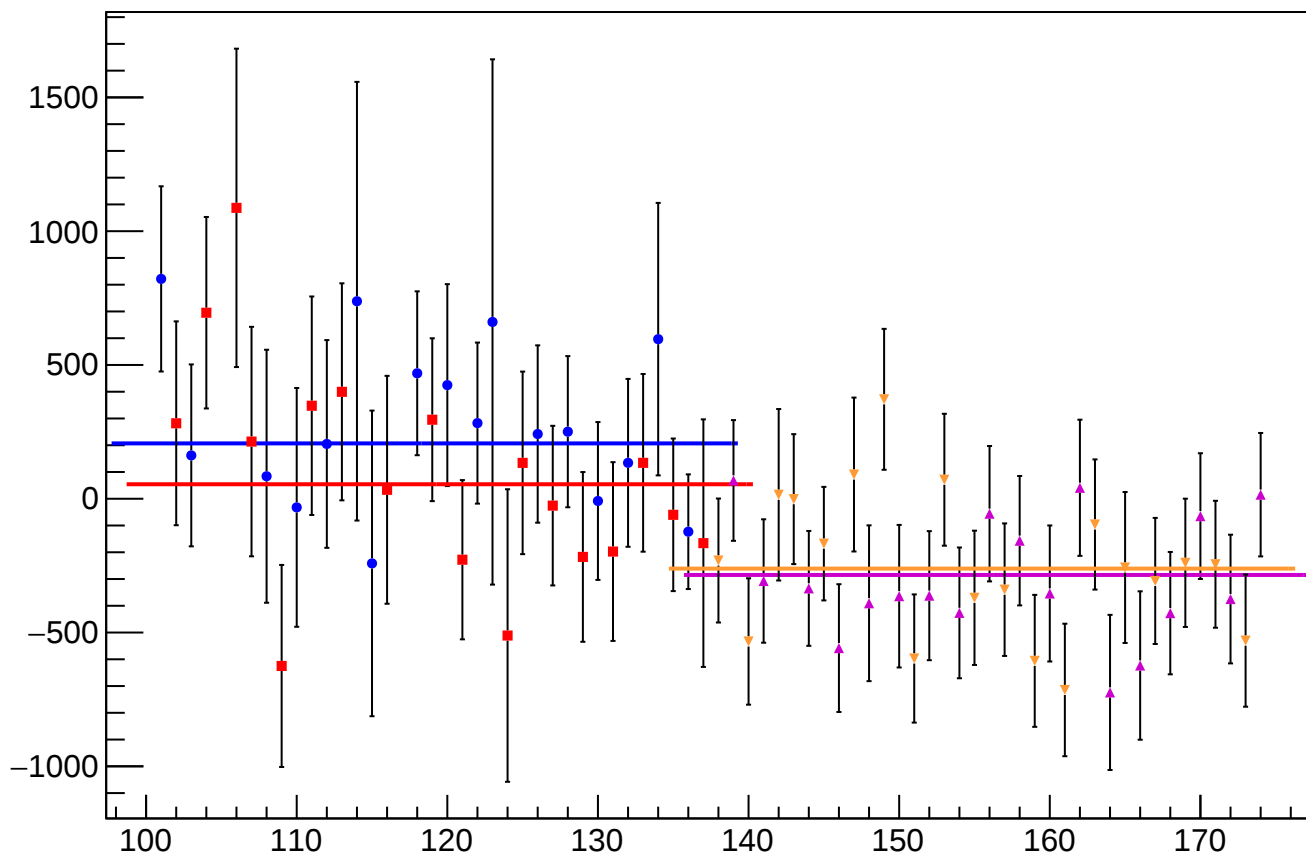
Right: 692.935 $\pm$ 0.136  $\chi^2$ /NDF: 1331611.8/34

In: 666.194 $\pm$ 0.105  $\chi^2$ /NDF: 1088635.5/34

Out: 664.474 $\pm$ 0.103  $\chi^2$ /NDF: 937694.2/36

All: 665.320 $\pm$ 0.073  $\chi^2$ /NDF: 2026467.0/71

# dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected

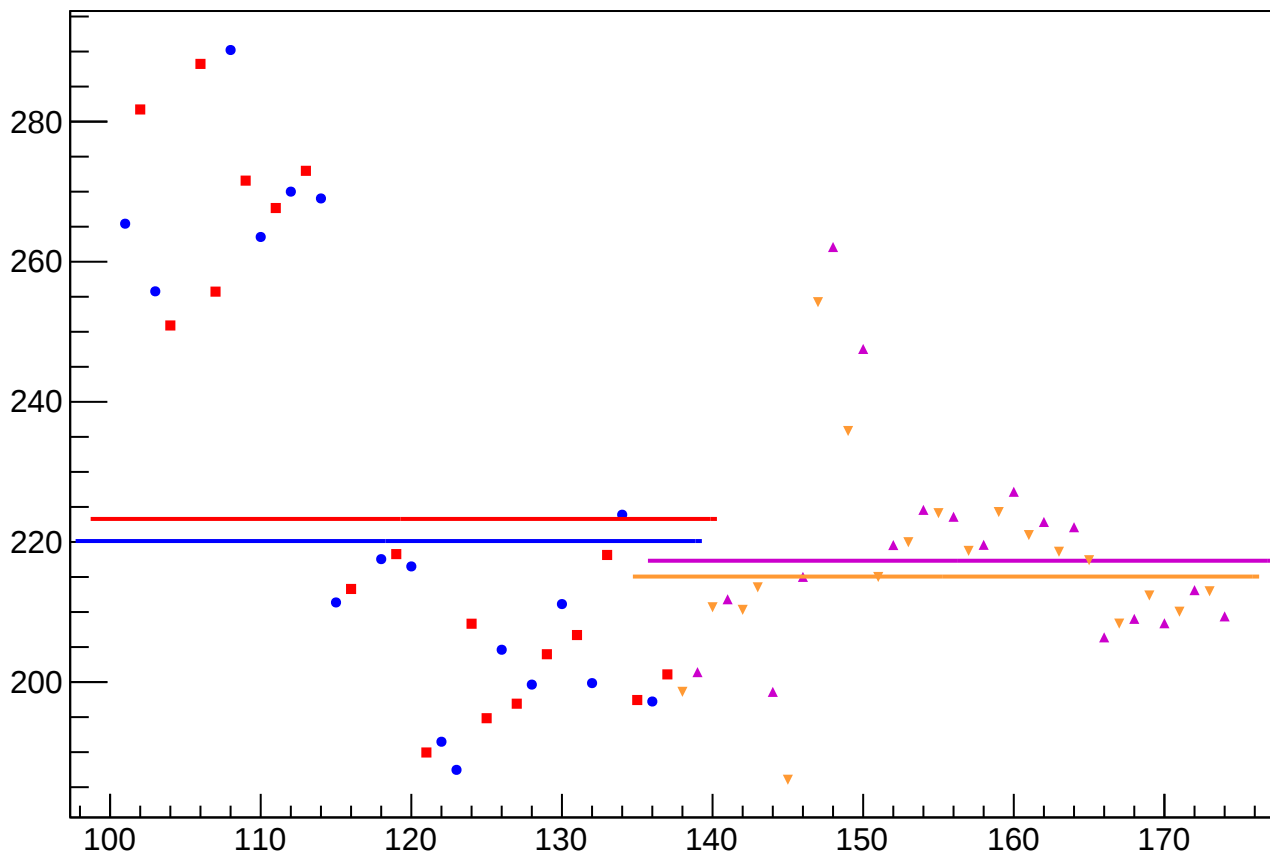


Right In: 206.874 $\pm$ 85.632  $\chi^2/\text{NDF}$ : 9.5/16  
 Left Out: -261.044 $\pm$ 56.810  $\chi^2/\text{NDF}$ :21.8/18  
 Right Out: 54.185 $\pm$ 85.192  $\chi^2/\text{NDF}$ : 15.7/17  
 Left In: -284.809 $\pm$ 57.794  $\chi^2/\text{NDF}$ :14.2/17

Left: -272.723 $\pm$ 40.514  $\chi^2/\text{NDF}$ : 36.0/36  
 Right: 130.137 $\pm$ 60.395  $\chi^2/\text{NDF}$ : 26.8/34  
 In: -130.934 $\pm$ 47.904  $\chi^2/\text{NDF}$ :46.3/34  
 Out: -164.014 $\pm$ 47.265  $\chi^2/\text{NDF}$ :46.9/36

All: -147.696 $\pm$ 33.645  $\chi^2/\text{NDF}$ : 93.5/71

dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 220.133+/-0.061  $\chi^2/\text{NDF}$ : 228444.0/16

Left Out: 215.062+/-0.040  $\chi^2/\text{NDF}$ : 109447.7/18

Right Out: 223.287+/-0.060  $\chi^2/\text{NDF}$ : 272255.2/17

Left In: 217.321+/-0.041  $\chi^2/\text{NDF}$ : 118963.5/17

Left: 216.172+/-0.029  $\chi^2/\text{NDF}$ : 229965.0/36

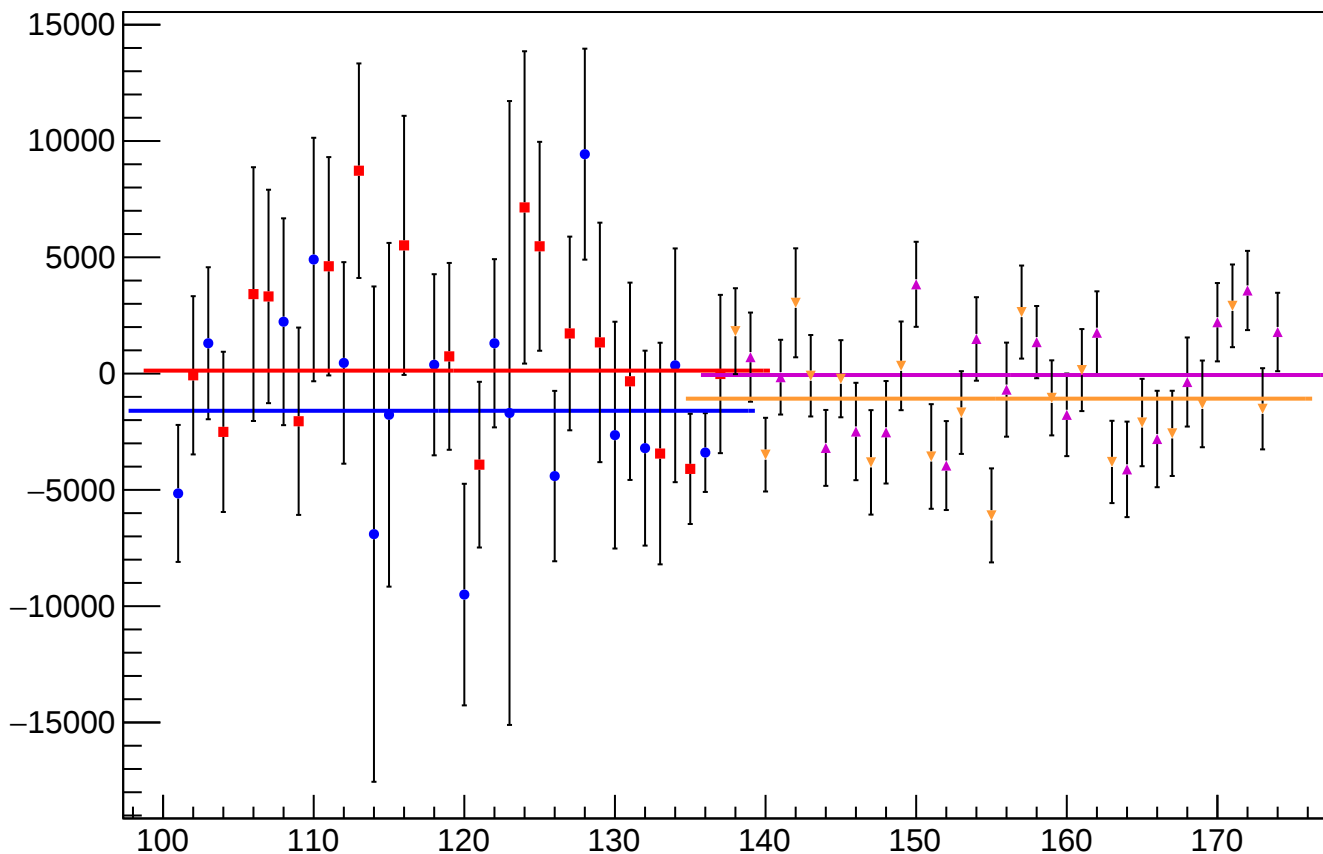
Right: 221.718+/-0.043  $\chi^2/\text{NDF}$ : 502063.5/34

In: 218.201+/-0.034  $\chi^2/\text{NDF}$ : 348888.6/34

Out: 217.594+/-0.033  $\chi^2/\text{NDF}$ : 394607.1/36

All: 217.894+/-0.024  $\chi^2/\text{NDF}$ : 743658.4/71

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: -1077.572 $\pm$ 423.169  $\chi^2$ /NDF:30.4/18

Right Out: 127.760 $\pm$ 949.094  $\chi^2$ /NDF: 14.8/17

Left In: -60.718 $\pm$ 428.913  $\chi^2$ /NDF:32.1/17

Left: -575.999 $\pm$ 301.236  $\chi^2$ /NDF: 65.3/36

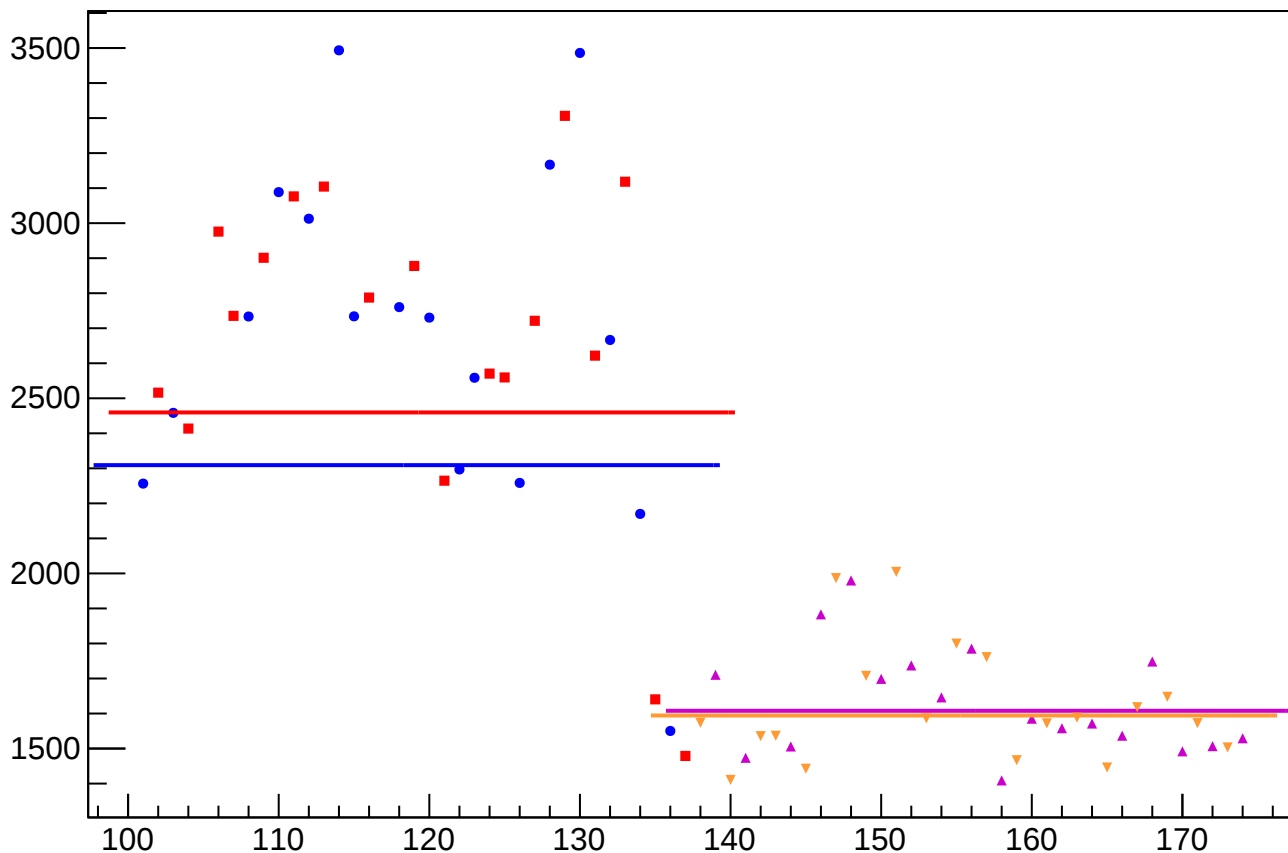
Right: -761.539 $\pm$ 660.970  $\chi^2$ /NDF: 33.2/34

In: -334.868 $\pm$ 388.820  $\chi^2$ /NDF:51.0/34

Out: -877.691 $\pm$ 386.493  $\chi^2$ /NDF:46.6/36

All: -607.909 $\pm$ 274.111  $\chi^2$ /NDF: 98.5/71

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: 1594.445 $\pm$ 0.299  $\chi^2$ /NDF: 249599.6/18

Right Out: 2459.603 $\pm$ 0.671  $\chi^2$ /NDF: 668179.2/17

Left In: 1607.817 $\pm$ 0.303  $\chi^2$ /NDF: 218827.4/17

Left: 1601.041 $\pm$ 0.213  $\chi^2$ /NDF: 469412.1/36

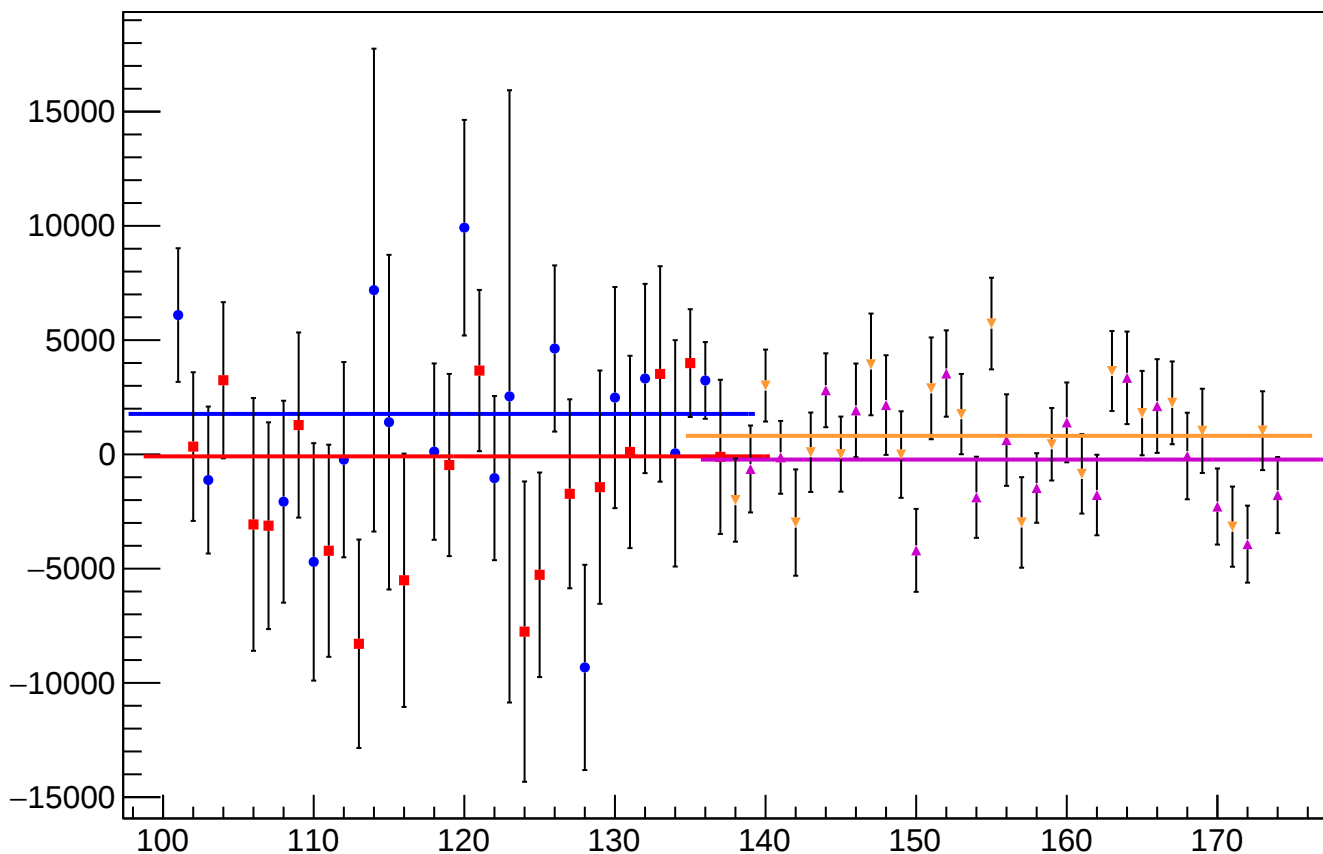
Right: 2382.111 $\pm$ 0.467  $\chi^2$ /NDF: 1494797.0/34

In: 1732.800 $\pm$ 0.275  $\chi^2$ /NDF: 1972475.2/34

Out: 1737.914 $\pm$ 0.273  $\chi^2$ /NDF: 2304079.4/36

All: 1735.373 $\pm$ 0.194  $\chi^2$ /NDF: 4276728.6/71

asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $1771.279 \pm 912.328$   $\chi^2/\text{NDF}: 17.3/16$

Left Out:  $812.286 \pm 418.531$   $\chi^2/\text{NDF}: 30.1/18$

Right Out:  $-86.080 \pm 939.852$   $\chi^2/\text{NDF}: 14.5/17$

Left In:  $-226.458 \pm 423.852$   $\chi^2/\text{NDF}: 29.6/17$

Left:  $299.476 \pm 297.809$   $\chi^2/\text{NDF}: 62.8/36$

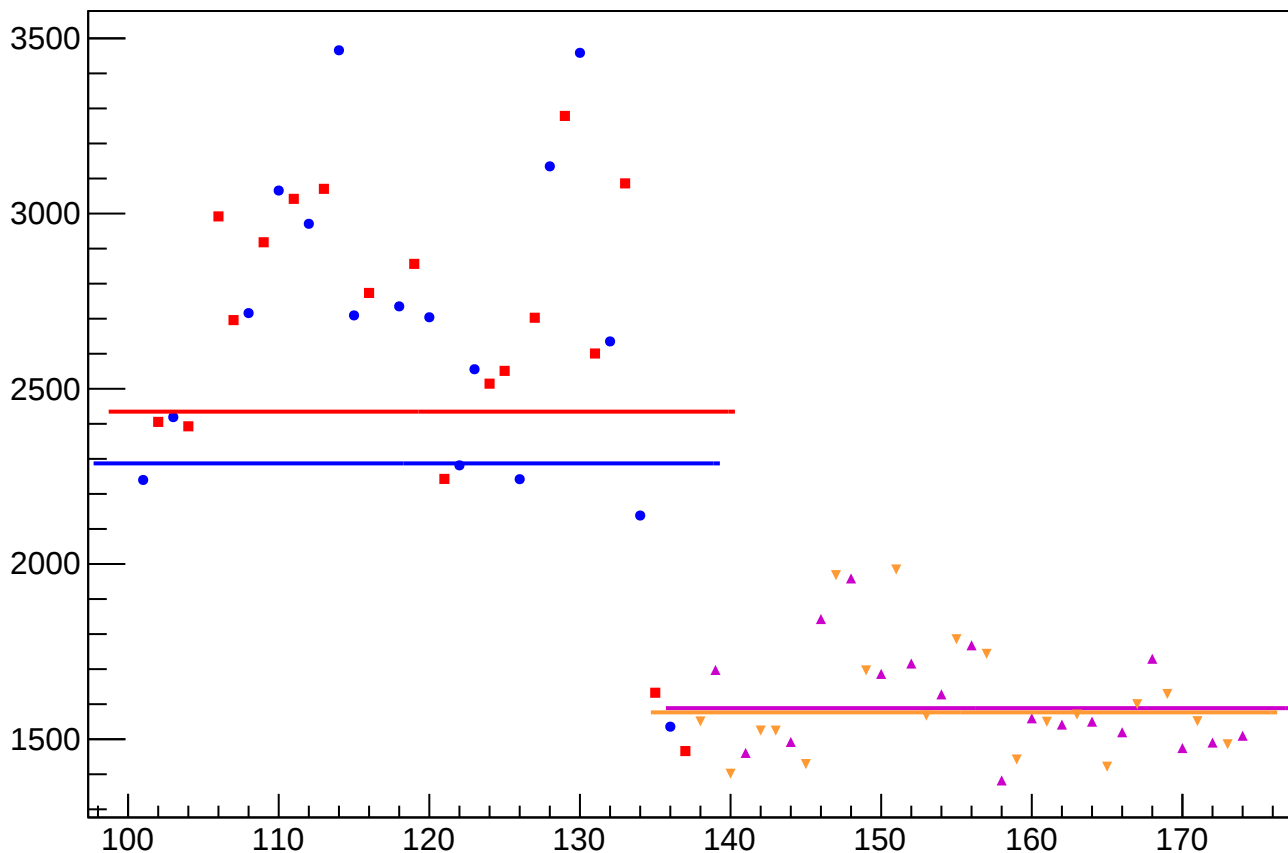
Right:  $870.195 \pm 654.628$   $\chi^2/\text{NDF}: 33.8/34$

In:  $128.183 \pm 384.394$   $\chi^2/\text{NDF}: 50.9/34$

Out:  $663.617 \pm 382.334$   $\chi^2/\text{NDF}: 45.3/36$

All:  $397.339 \pm 271.077$   $\chi^2/\text{NDF}: 97.2/71$

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1576.654+/-0.296  $\chi^2/\text{NDF}$ : 253768.1/18

Right Out: 2434.786+/-0.665  $\chi^2/\text{NDF}$ : 666938.3/17

Left In: 1588.678+/-0.300  $\chi^2/\text{NDF}$ : 220199.5/17

Left: 1582.590+/-0.211  $\chi^2/\text{NDF}$ : 474782.5/36

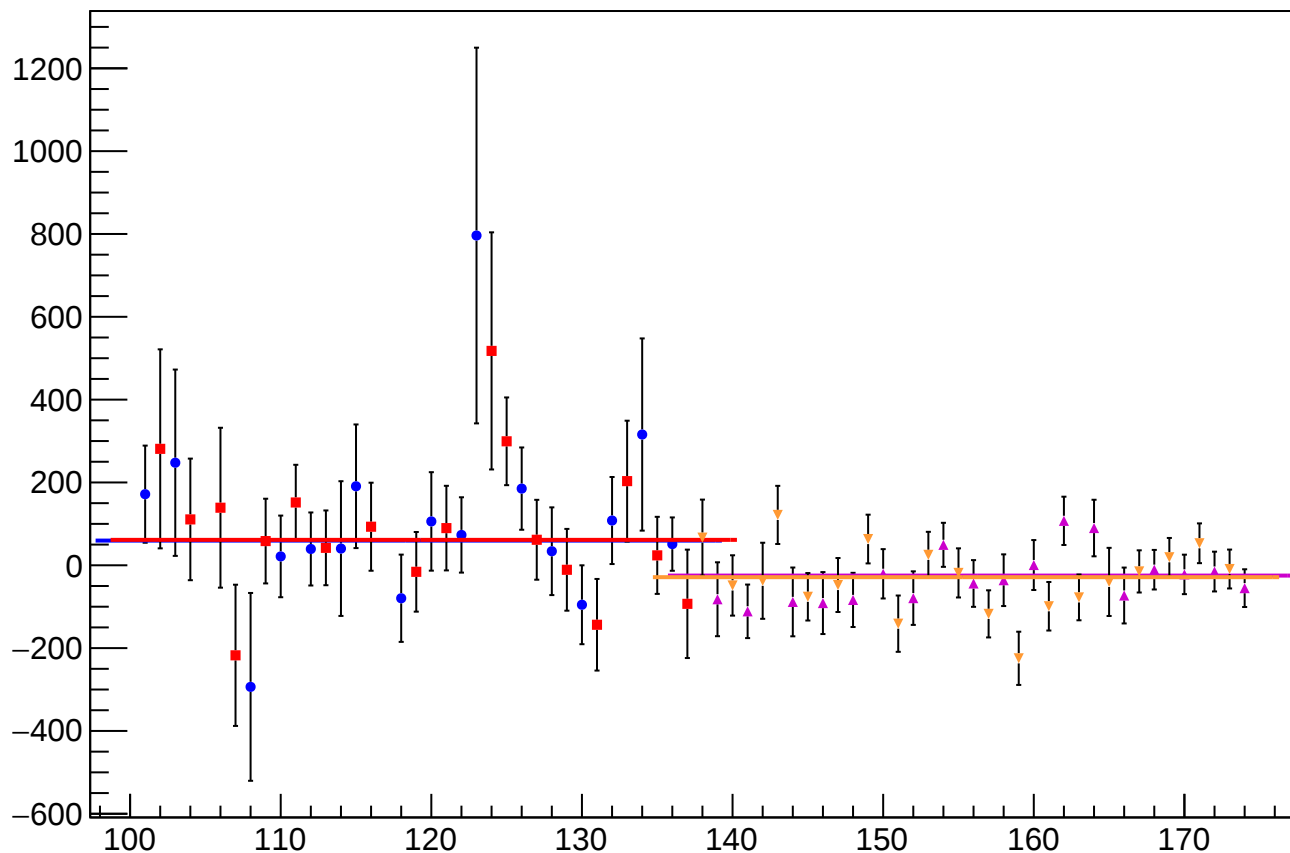
Right: 2358.750+/-0.463  $\chi^2/\text{NDF}$ : 1491762.6/34

In: 1712.663+/-0.272  $\chi^2/\text{NDF}$ : 1983629.7/34

Out: 1718.665+/-0.270  $\chi^2/\text{NDF}$ : 2312105.2/36

All: 1715.680+/-0.192  $\chi^2/\text{NDF}$ : 4295979.9/71

# dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $59.656 \pm 27.080$   $\chi^2/\text{NDF}: 15.3/16$

Left Out:  $-28.724 \pm 13.694$   $\chi^2/\text{NDF}: 30.8/18$

Right Out:  $61.399 \pm 27.011$   $\chi^2/\text{NDF}: 19.7/17$

Left In:  $-24.863 \pm 13.915$   $\chi^2/\text{NDF}: 16.4/17$

Left:  $-26.824 \pm 9.760$   $\chi^2/\text{NDF}: 47.3/36$

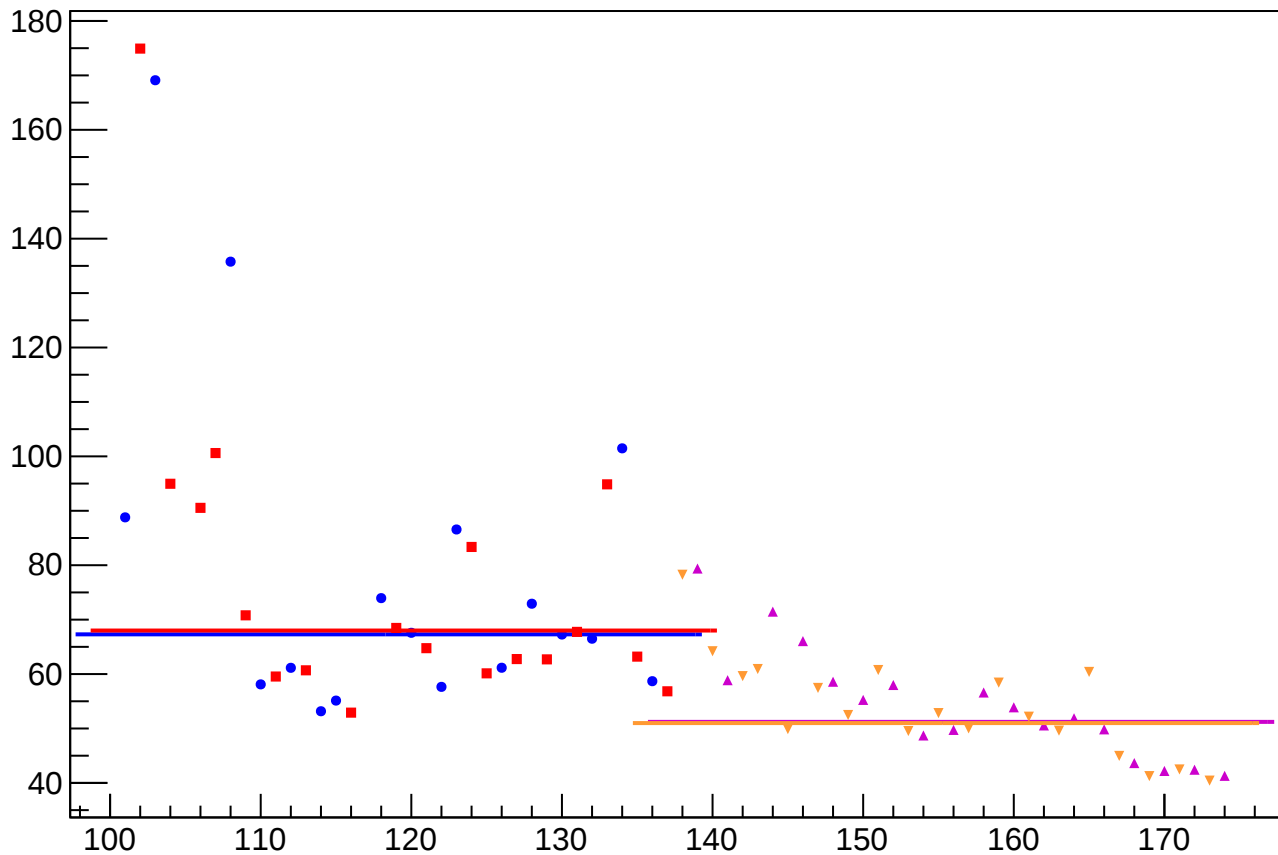
Right:  $60.530 \pm 19.124$   $\chi^2/\text{NDF}: 35.0/34$

In:  $-7.209 \pm 12.376$   $\chi^2/\text{NDF}: 39.5/34$

Out:  $-10.295 \pm 12.214$   $\chi^2/\text{NDF}: 59.4/36$

All:  $-8.772 \pm 8.694$   $\chi^2/\text{NDF}: 98.9/71$

dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 67.297 $\pm$ 0.019  $\chi^2$ /NDF: 841352.2/16

Left Out: 50.994 $\pm$ 0.010  $\chi^2$ /NDF: 701135.4/18

Right Out: 67.998 $\pm$ 0.019  $\chi^2$ /NDF: 754329.7/17

Left In: 51.214 $\pm$ 0.010  $\chi^2$ /NDF: 791148.8/17

Left: 51.102 $\pm$ 0.007  $\chi^2$ /NDF: 1492539.0/36

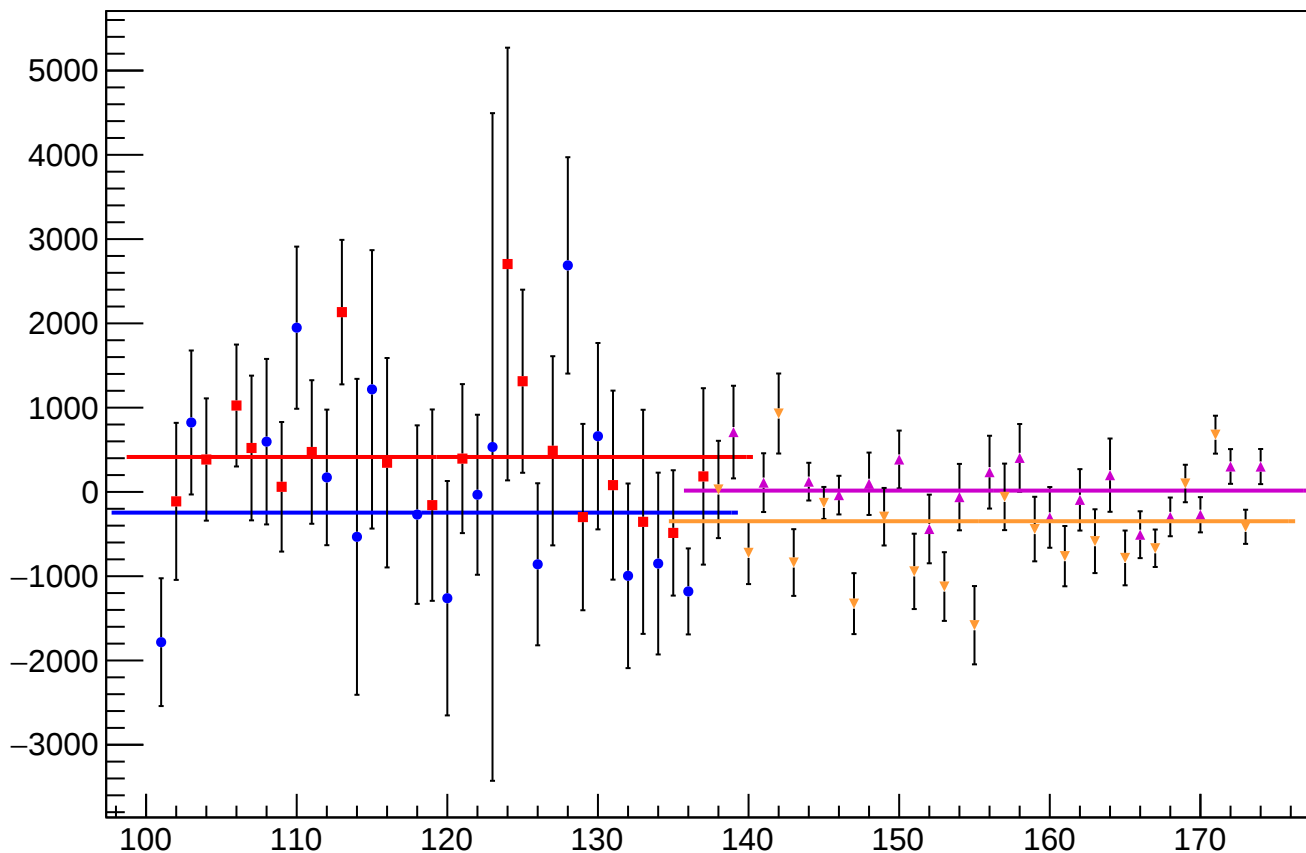
Right: 67.648 $\pm$ 0.014  $\chi^2$ /NDF: 1596354.2/34

In: 54.574 $\pm$ 0.009  $\chi^2$ /NDF: 2190588.8/34

Out: 54.471 $\pm$ 0.009  $\chi^2$ /NDF: 2086025.8/36

All: 54.522 $\pm$ 0.006  $\chi^2$ /NDF: 4276684.2/71

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-245.631 \pm 235.404$   $\chi^2/\text{NDF}$ : 23.8/16

Left Out:  $-347.561 \pm 70.215$   $\chi^2/\text{NDF}$ : 62.5/18

Right Out:  $414.725 \pm 222.788$   $\chi^2/\text{NDF}$ : 9.4/17

Left In:  $15.781 \pm 68.642$   $\chi^2/\text{NDF}$ : 17.8/17

Left:  $-161.775 \pm 49.084$   $\chi^2/\text{NDF}$ : 94.0/36

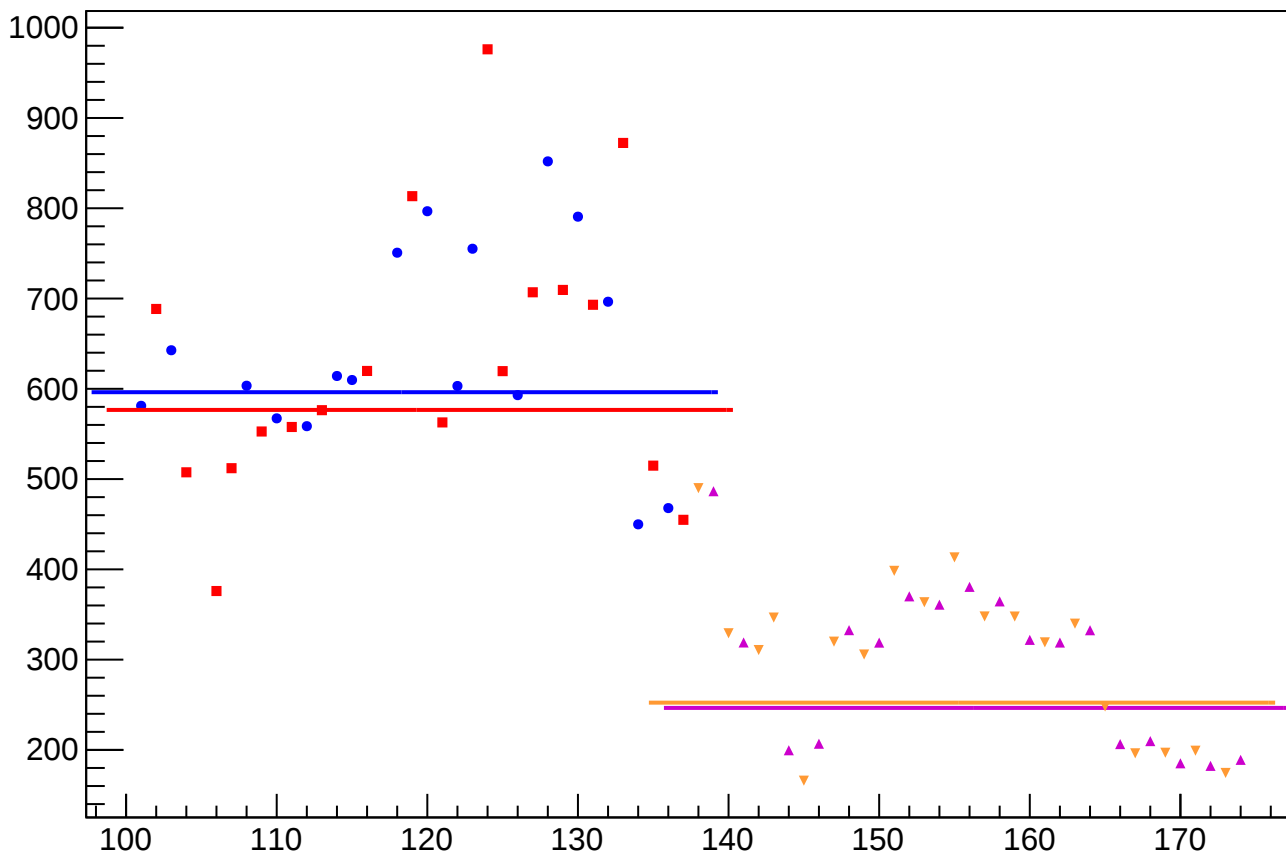
Right:  $102.716 \pm 161.811$   $\chi^2/\text{NDF}$ : 37.3/34

In:  $-4.704 \pm 65.898$   $\chi^2/\text{NDF}$ : 42.6/34

Out:  $-278.686 \pm 66.968$   $\chi^2/\text{NDF}$ : 82.5/36

All:  $-139.489 \pm 46.970$   $\chi^2/\text{NDF}$ : 133.7/71

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 596.246+/-0.166  $\chi^2/\text{NDF}$ : 422153.3/16

Left Out: 252.366+/-0.050  $\chi^2/\text{NDF}$ : 2781561.0/18

Right Out: 576.614+/-0.158  $\chi^2/\text{NDF}$ : 573658.2/17

Left In: 246.523+/-0.049  $\chi^2/\text{NDF}$ : 2387264.7/17

Left: 249.378+/-0.035  $\chi^2/\text{NDF}$ : 5175905.6/36

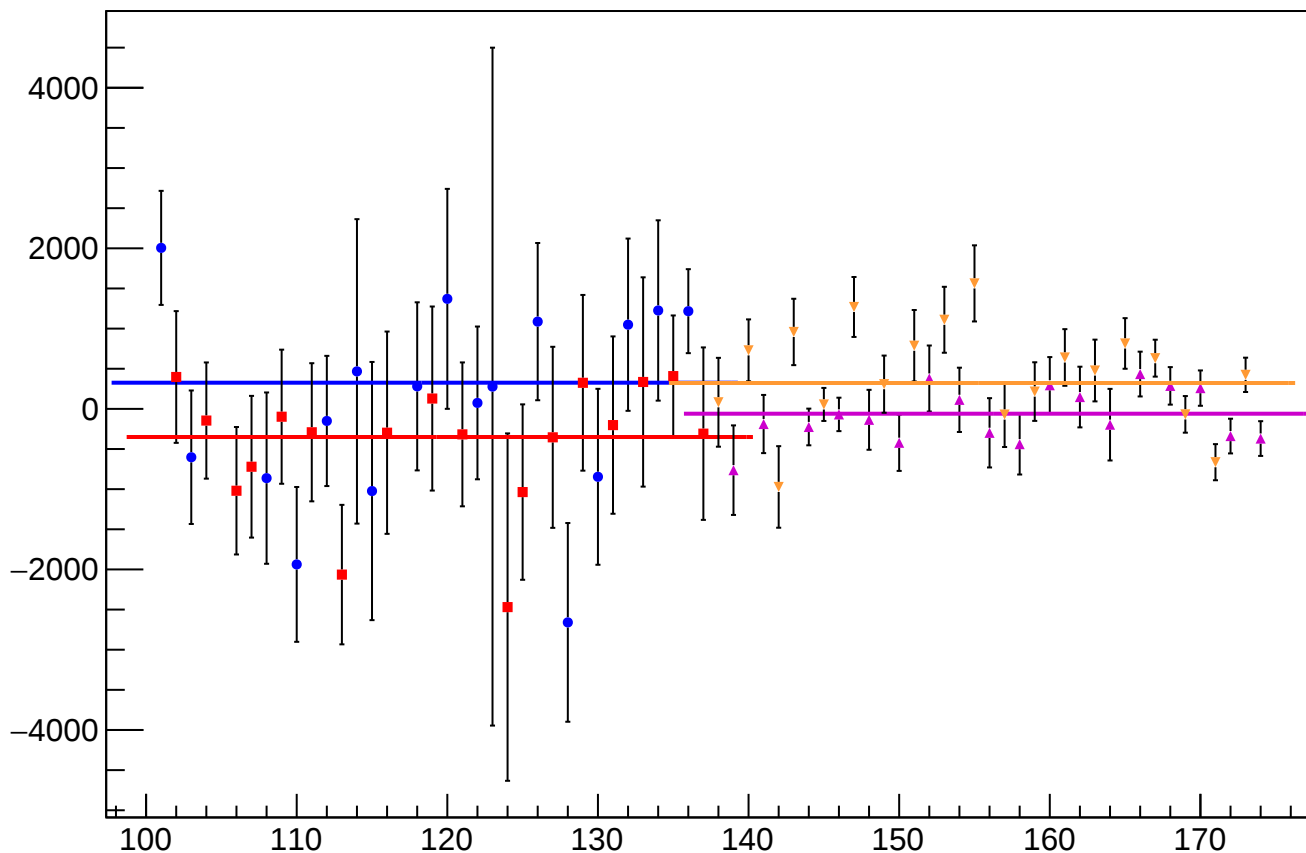
Right: 585.890+/-0.114  $\chi^2/\text{NDF}$ : 1003148.8/34

In: 273.929+/-0.047  $\chi^2/\text{NDF}$ : 6877674.9/34

Out: 281.663+/-0.047  $\chi^2/\text{NDF}$ : 7208889.4/36

All: 277.734+/-0.033  $\chi^2/\text{NDF}$ : 14100116.2/70

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 326.077+/-235.599  $\chi^2/\text{NDF}$ : 26.9/16

Left Out: 322.388+/-72.158  $\chi^2/\text{NDF}$ :58.5/18

Right Out: -350.392+/-225.254  $\chi^2/\text{NDF}$ : 9.0/17

Left In: -60.130+/-69.410  $\chi^2/\text{NDF}$ :18.5/17

Left: 123.707+/-50.024  $\chi^2/\text{NDF}$ : 91.7/36

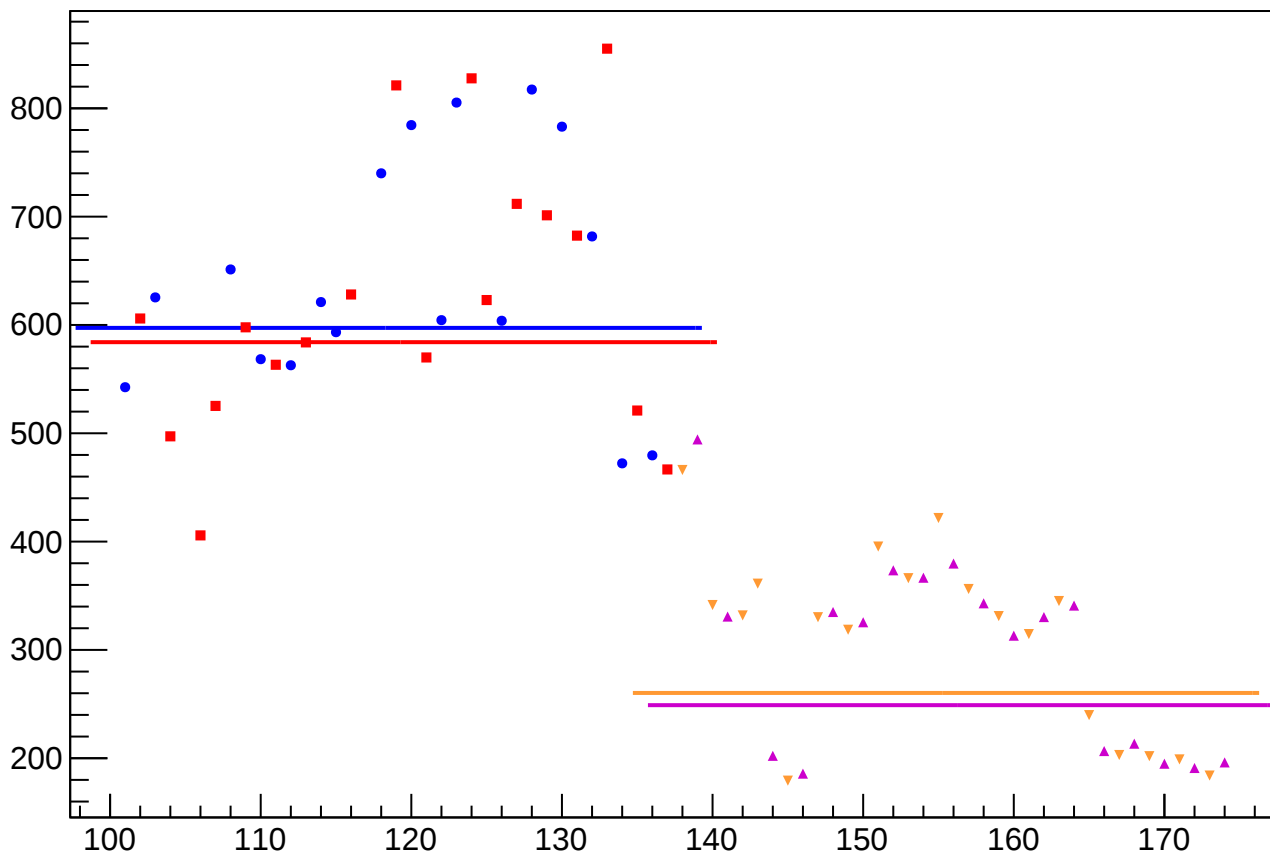
Right: -27.335+/-162.813  $\chi^2/\text{NDF}$ : 40.2/34

In: -29.286+/-66.581  $\chi^2/\text{NDF}$ :47.9/34

Out: 259.774+/-68.718  $\chi^2/\text{NDF}$ :75.6/36

All: 110.678+/-47.818  $\chi^2/\text{NDF}$ : 132.6/71

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 260.273 $\pm$ 0.051  $\chi^2$ /NDF:2507198.7/18

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

Left In: 248.986 $\pm$ 0.049  $\chi^2$ /NDF:2342048.8/17

Left: 254.411 $\pm$ 0.035  $\chi^2$ /NDF: 4874667.6/36

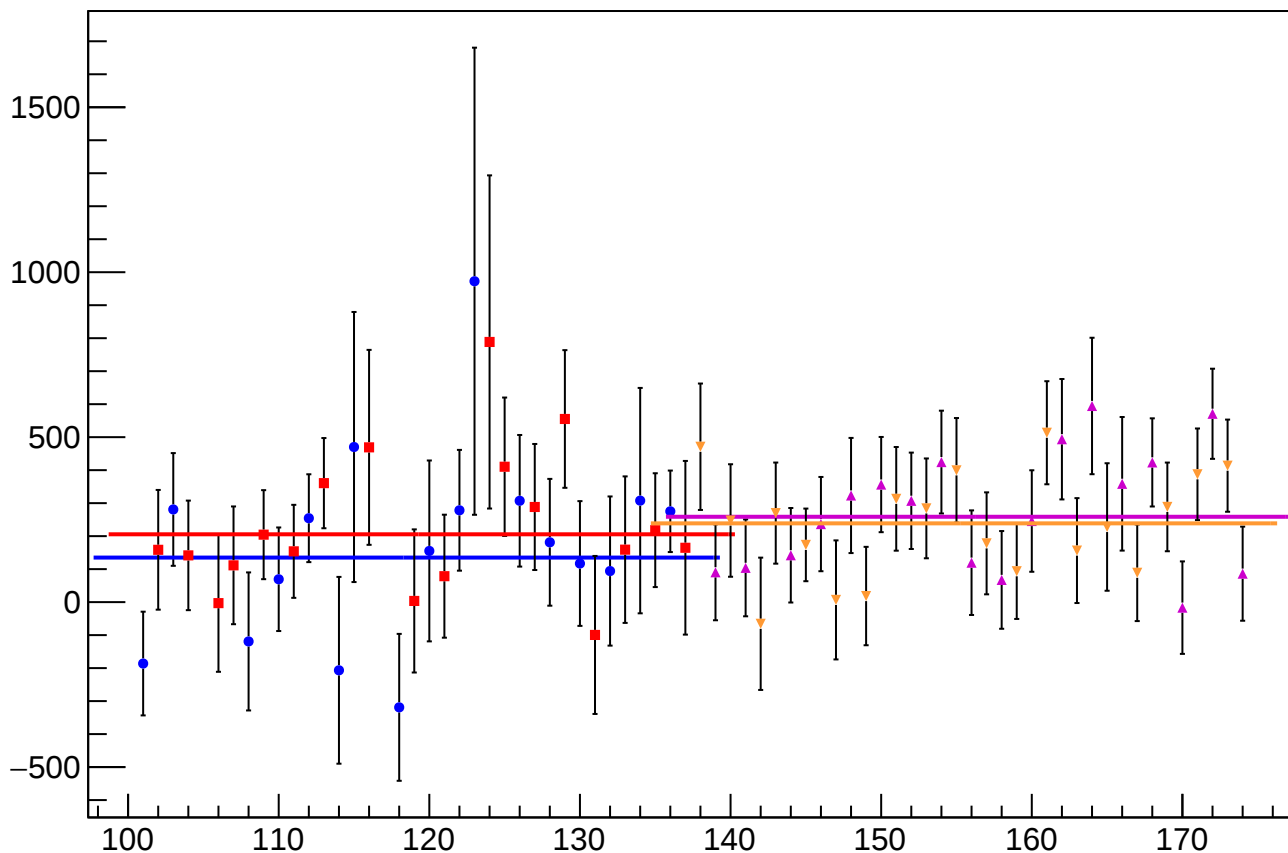
Right: 590.409 $\pm$ 0.115  $\chi^2$ /NDF: 813814.1/34

In: 276.803 $\pm$ 0.047  $\chi^2$ /NDF:6727980.1/34

Out: 290.412 $\pm$ 0.049  $\chi^2$ /NDF:6703087.4/36

All: 283.393 $\pm$ 0.034  $\chi^2$ /NDF: 13471526.5/73

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 135.029 $\pm$ 47.025  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: 238.745 $\pm$ 35.062  $\chi^2/\text{NDF}$ : 17.8/18

Right Out: 205.590 $\pm$ 44.536  $\chi^2/\text{NDF}$ : 12.0/17

Left In: 258.717 $\pm$ 35.912  $\chi^2/\text{NDF}$ : 24.0/17

Left: 248.492 $\pm$ 25.088  $\chi^2/\text{NDF}$ : 42.0/36

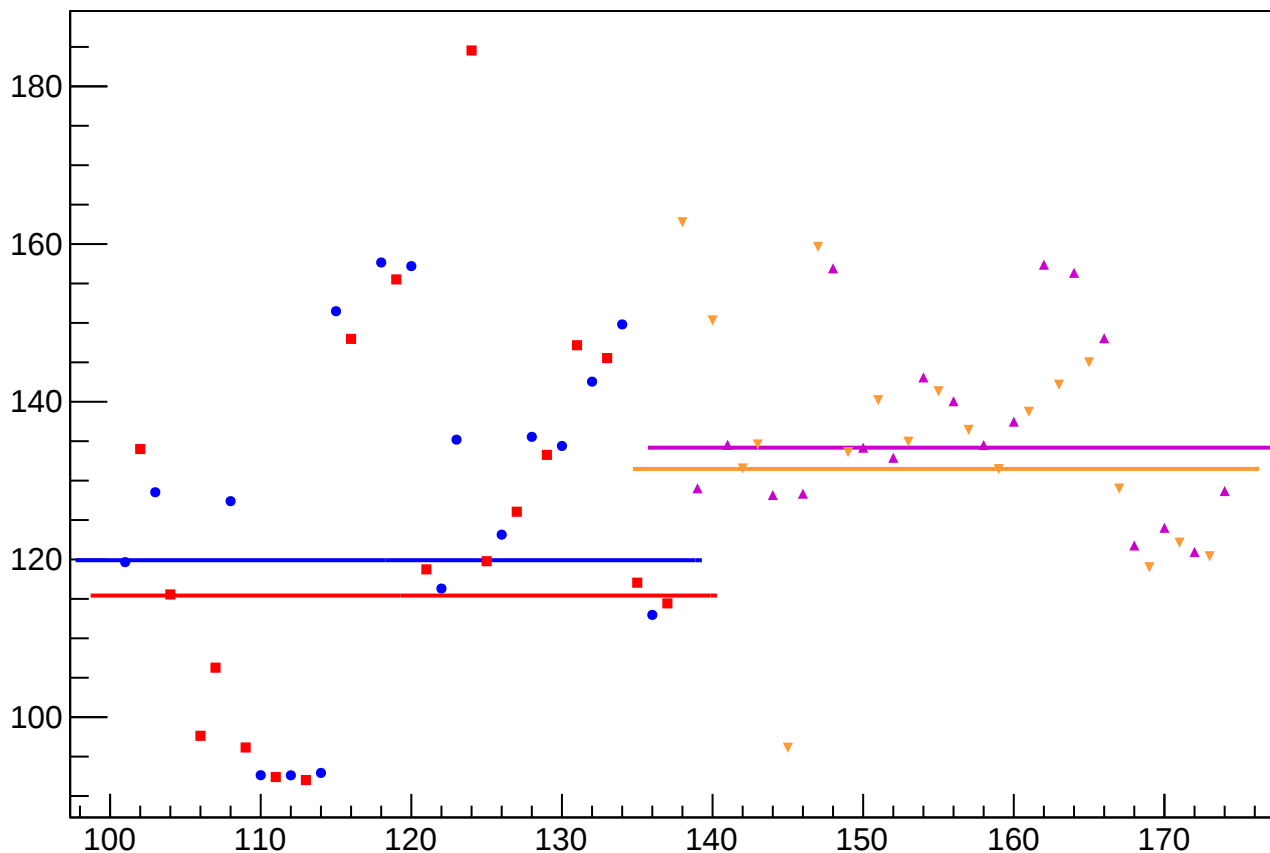
Right: 172.226 $\pm$ 32.336  $\chi^2/\text{NDF}$ : 31.3/34

In: 213.153 $\pm$ 28.541  $\chi^2/\text{NDF}$ : 46.4/34

Out: 226.059 $\pm$ 27.549  $\chi^2/\text{NDF}$ : 30.1/36

All: 219.834 $\pm$ 19.821  $\chi^2/\text{NDF}$ : 76.7/71

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 119.903 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 345510.5/16

Left Out: 131.481 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 413567.8/18

Right Out: 115.422 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 418100.5/17

Left In: 134.180 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 167909.9/17

Left: 132.798 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 587257.6/36

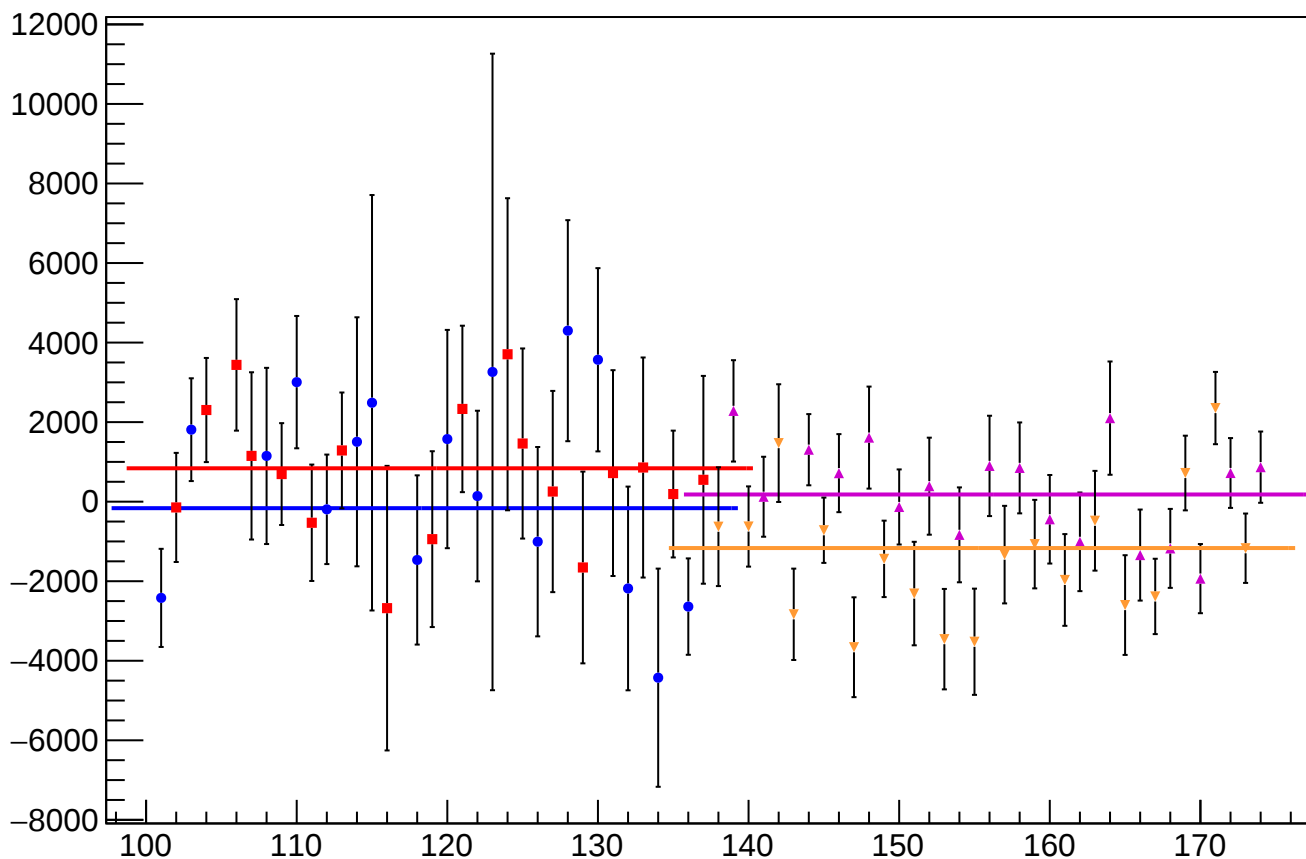
Right: 117.541 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 773185.8/34

In: 128.921 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 629850.0/34

Out: 125.337 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 992218.0/36

All: 127.065 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 1638395.1/71

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: -1166.241 $\pm$ 250.802  $\chi^2$ /NDF:40.0/18

Right Out: 839.187 $\pm$ 440.476  $\chi^2$ /NDF: 9.3/17

Left In: 180.660 $\pm$ 250.116  $\chi^2$ /NDF:21.0/17

Left: -490.946 $\pm$ 177.100  $\chi^2$ /NDF: 75.4/36

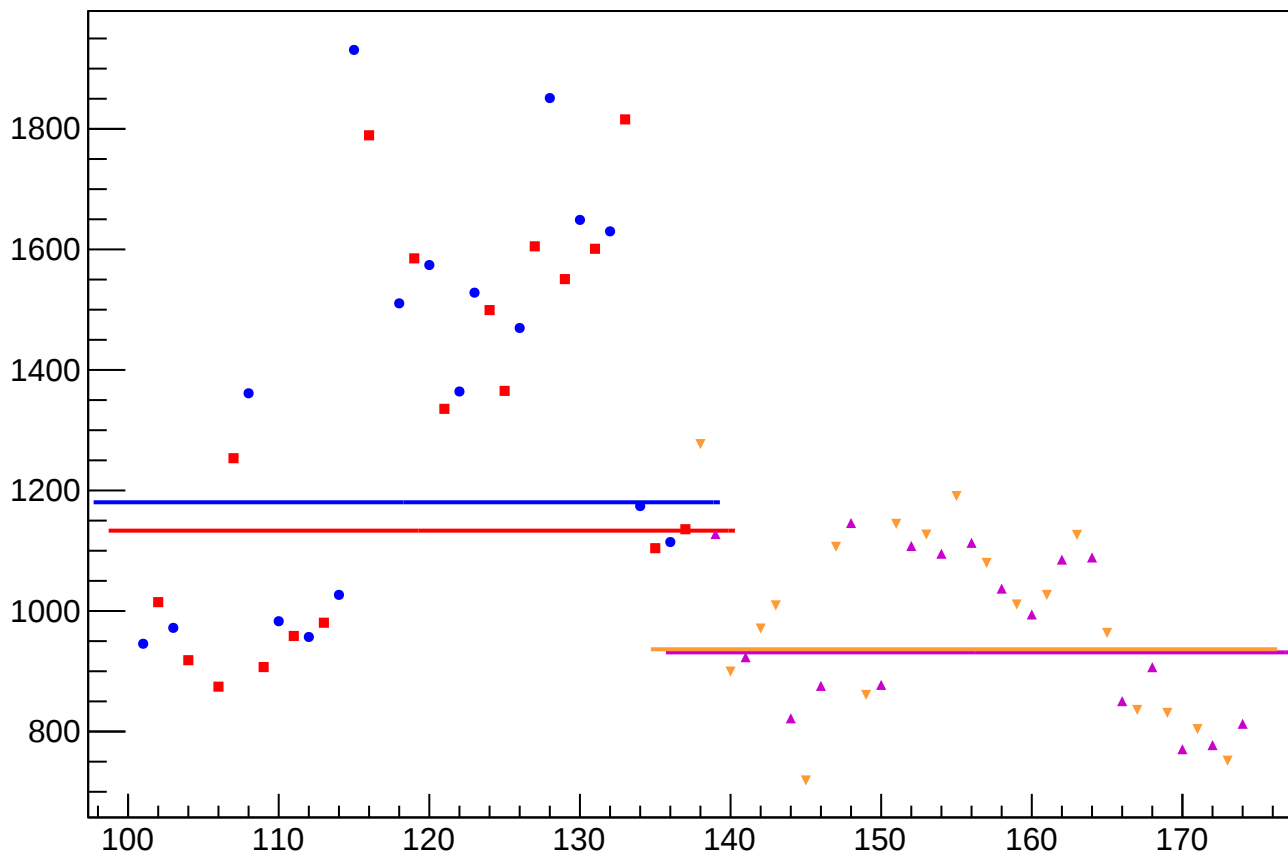
Right: 369.872 $\pm$ 321.264  $\chi^2$ /NDF: 35.4/34

In: 104.594 $\pm$ 220.755  $\chi^2$ /NDF:45.1/34

Out: -675.255 $\pm$ 217.948  $\chi^2$ /NDF:64.9/36

All: -290.320 $\pm$ 155.096  $\chi^2$ /NDF: 116.3/71

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: 936.511+/-0.177  $\chi^2/\text{NDF}$ : 750110.9/18

Right Out: 1133.347+/-0.311  $\chi^2/\text{NDF}$ : 760395.8/17

Left In: 931.338+/-0.177  $\chi^2/\text{NDF}$ : 522310.8/17

Left: 933.918+/-0.125  $\chi^2/\text{NDF}$ : 1272848.2/36

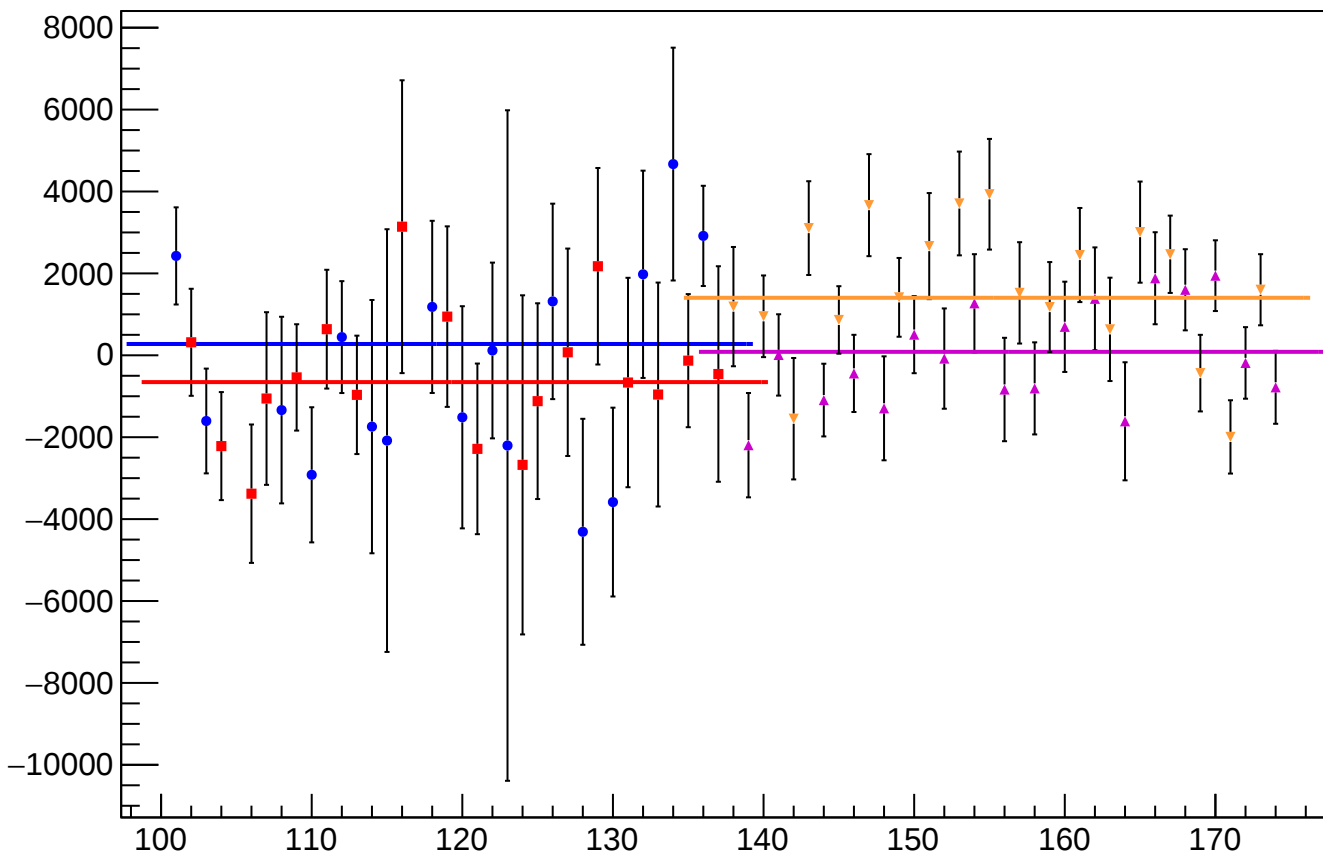
Right: 1155.371+/-0.227  $\chi^2/\text{NDF}$ : 1439924.5/34

In: 986.380+/-0.156  $\chi^2/\text{NDF}$ : 1629439.1/34

Out: 984.702+/-0.154  $\chi^2/\text{NDF}$ : 1812112.4/36

All: 985.530+/-0.110  $\chi^2/\text{NDF}$ : 3441610.1/71

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 276.422 $\pm$ 466.424  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: 1404.431 $\pm$ 249.841  $\chi^2/\text{NDF}$ : 40.4/18

Right Out: -654.406 $\pm$ 439.824  $\chi^2/\text{NDF}$ : 9.6/17

Left In: 84.590 $\pm$ 248.341  $\chi^2/\text{NDF}$ : 22.1/17

Left: 740.537 $\pm$ 176.131  $\chi^2/\text{NDF}$ : 76.6/36

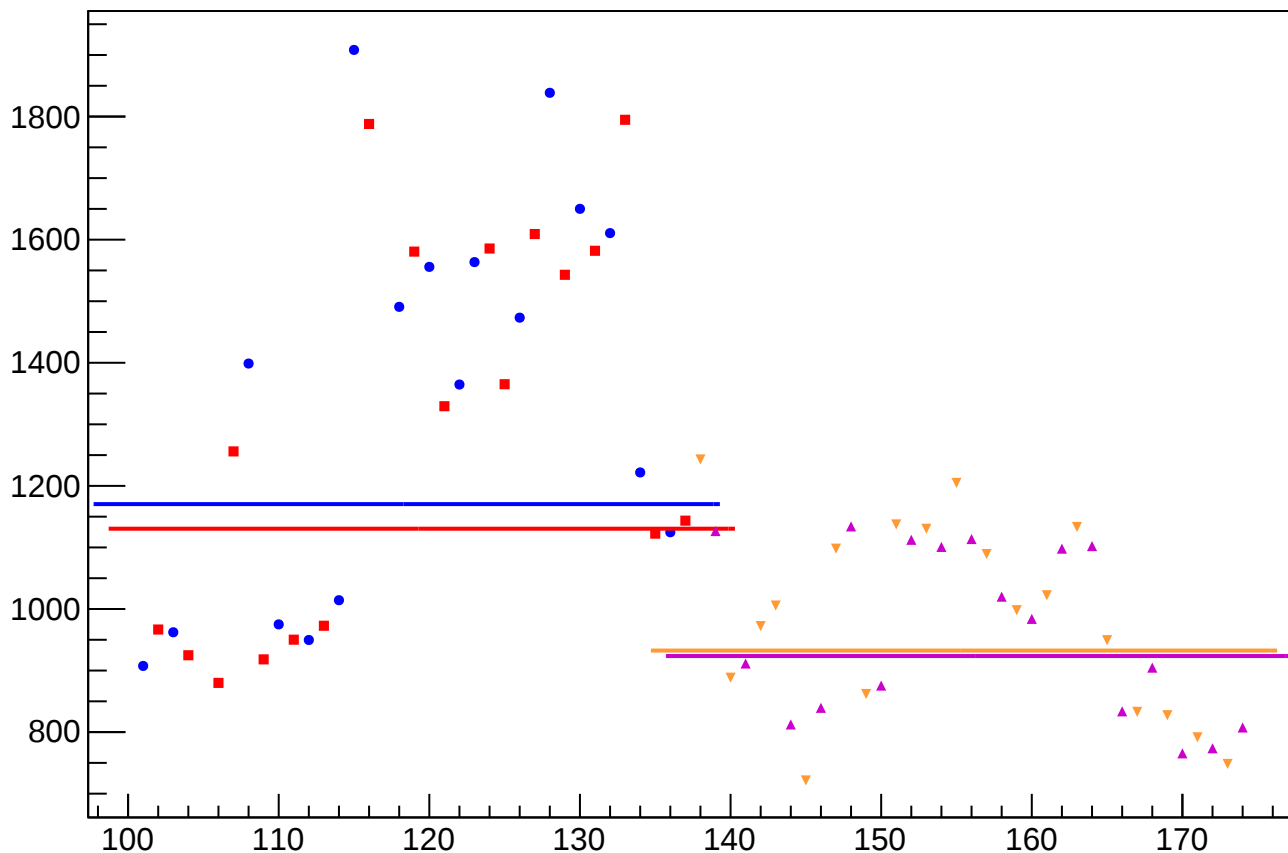
Right: -216.291 $\pm$ 319.993  $\chi^2/\text{NDF}$ : 36.0/34

In: 126.960 $\pm$ 219.206  $\chi^2/\text{NDF}$ : 46.6/34

Out: 902.161 $\pm$ 217.238  $\chi^2/\text{NDF}$ : 66.6/36

All: 518.056 $\pm$ 154.302  $\chi^2/\text{NDF}$ : 119.5/71

# 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: 932.484 $\pm$ 0.177  $\chi^2/\text{NDF}$ : 751093.1/18

Right Out: 1130.456 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 763027.2/17

Left In: 923.582 $\pm$ 0.176  $\chi^2/\text{NDF}$ : 558687.9/17

Left: 928.006 $\pm$ 0.125  $\chi^2/\text{NDF}$ : 1311058.3/36

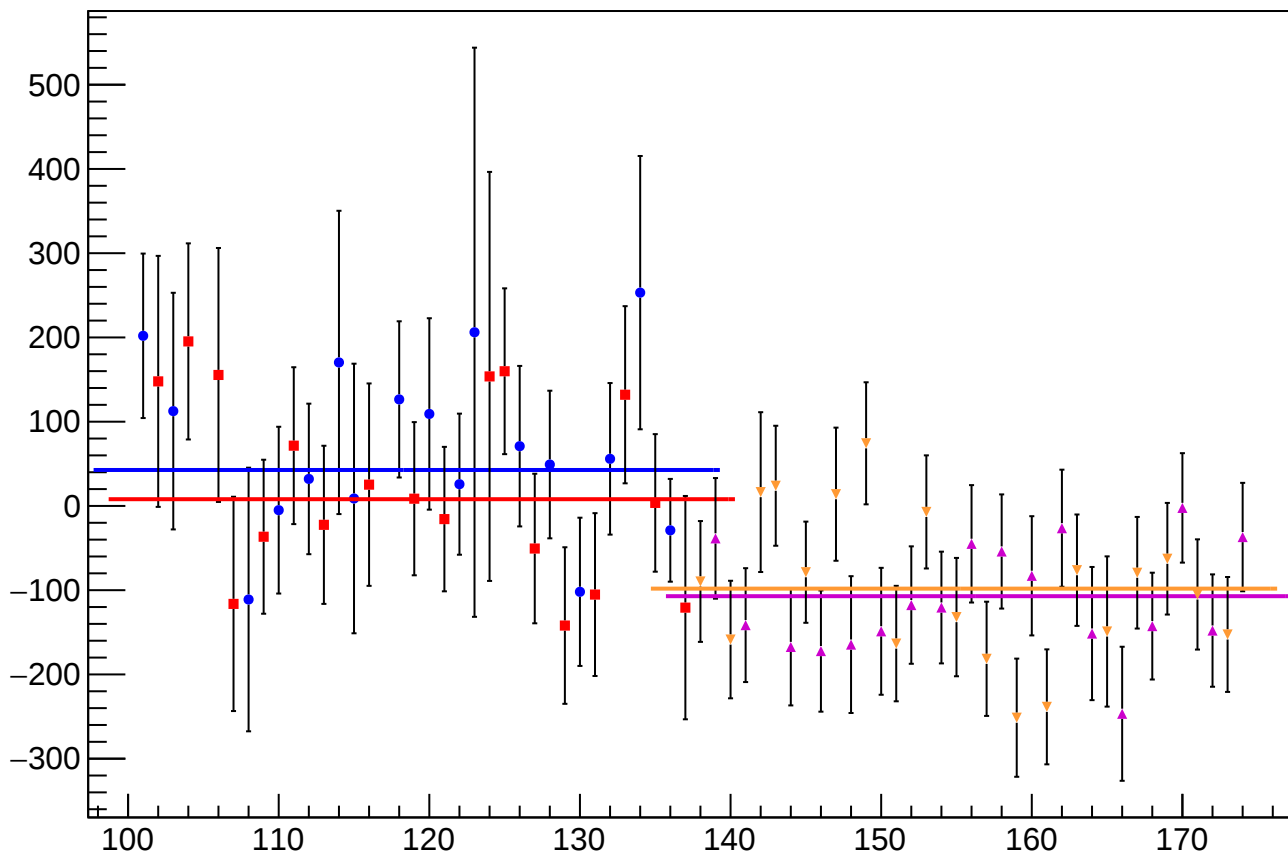
Right: 1149.259 $\pm$ 0.226  $\chi^2/\text{NDF}$ : 1476279.7/34

In: 978.098 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 1700535.3/34

Out: 980.781 $\pm$ 0.154  $\chi^2/\text{NDF}$ : 1820477.4/36

All: 979.452 $\pm$ 0.109  $\chi^2/\text{NDF}$ : 3521163.9/71

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 42.674 $\pm$ 24.701  $\chi^2$ /NDF: 12.0/16

Left Out: -98.151 $\pm$ 16.078  $\chi^2$ /NDF:27.9/18

Right Out: 7.995 $\pm$ 24.492  $\chi^2$ /NDF: 15.8/17

Left In: -107.125 $\pm$ 16.492  $\chi^2$ /NDF:14.4/17

Left: -102.524 $\pm$ 11.513  $\chi^2$ /NDF: 42.4/36

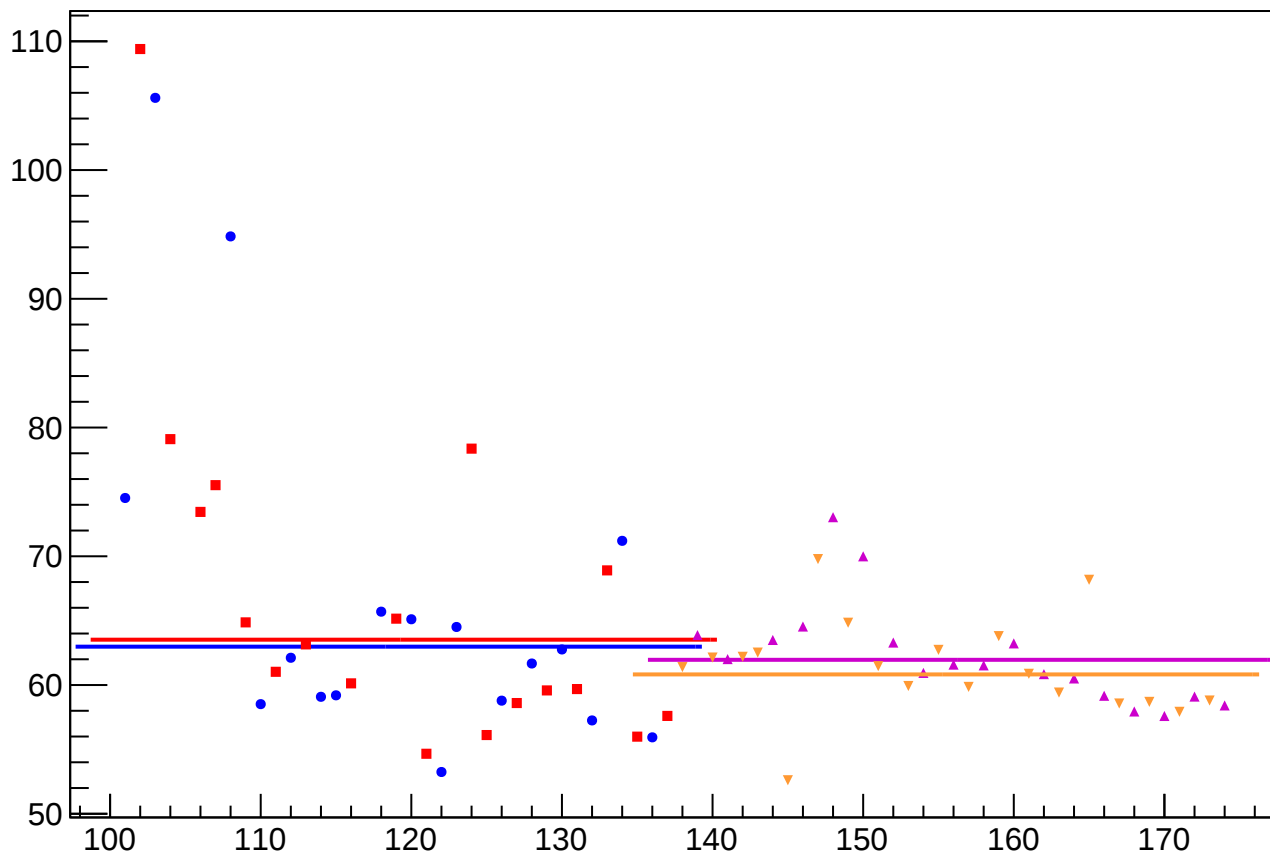
Right: 25.187 $\pm$ 17.392  $\chi^2$ /NDF: 28.8/34

In: -60.937 $\pm$ 13.716  $\chi^2$ /NDF:51.8/34

Out: -66.184 $\pm$ 13.441  $\chi^2$ /NDF:56.8/36

All: -63.613 $\pm$ 9.600  $\chi^2$ /NDF: 108.7/71

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:  $60.825 \pm 0.011$   $\chi^2/\text{NDF}: 102335.2/18$

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}: 335430.9/17$

Left In:  $61.958 \pm 0.012$   $\chi^2/\text{NDF}: 97415.2/17$

Left:  $61.377 \pm 0.008$   $\chi^2/\text{NDF}: 204595.9/36$

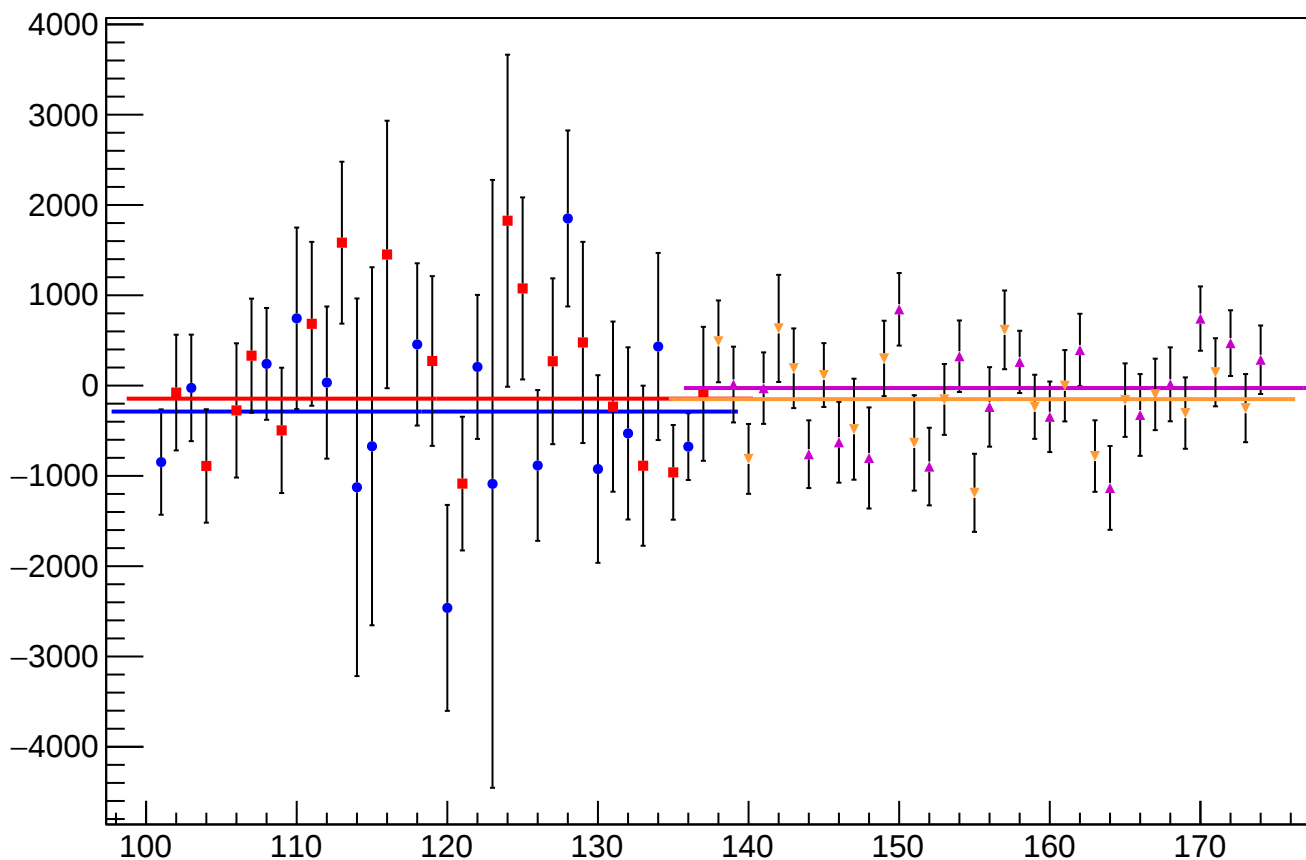
Right:  $63.253 \pm 0.012$   $\chi^2/\text{NDF}: 711180.0/34$

In:  $62.273 \pm 0.010$   $\chi^2/\text{NDF}: 475045.4/34$

Out:  $61.637 \pm 0.010$   $\chi^2/\text{NDF}: 454719.9/36$

All:  $61.949 \pm 0.007$   $\chi^2/\text{NDF}: 931961.3/71$

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -287.682 $\pm$ 189.888  $\chi^2$ /NDF: 15.4/16

Left Out: -150.039 $\pm$ 95.017  $\chi^2$ /NDF:22.6/18

Right Out: -144.624 $\pm$ 187.777  $\chi^2$ /NDF: 16.1/17

Left In: -27.140 $\pm$ 95.532  $\chi^2$ /NDF:33.2/17

Left: -88.921 $\pm$ 67.368  $\chi^2$ /NDF: 56.7/36

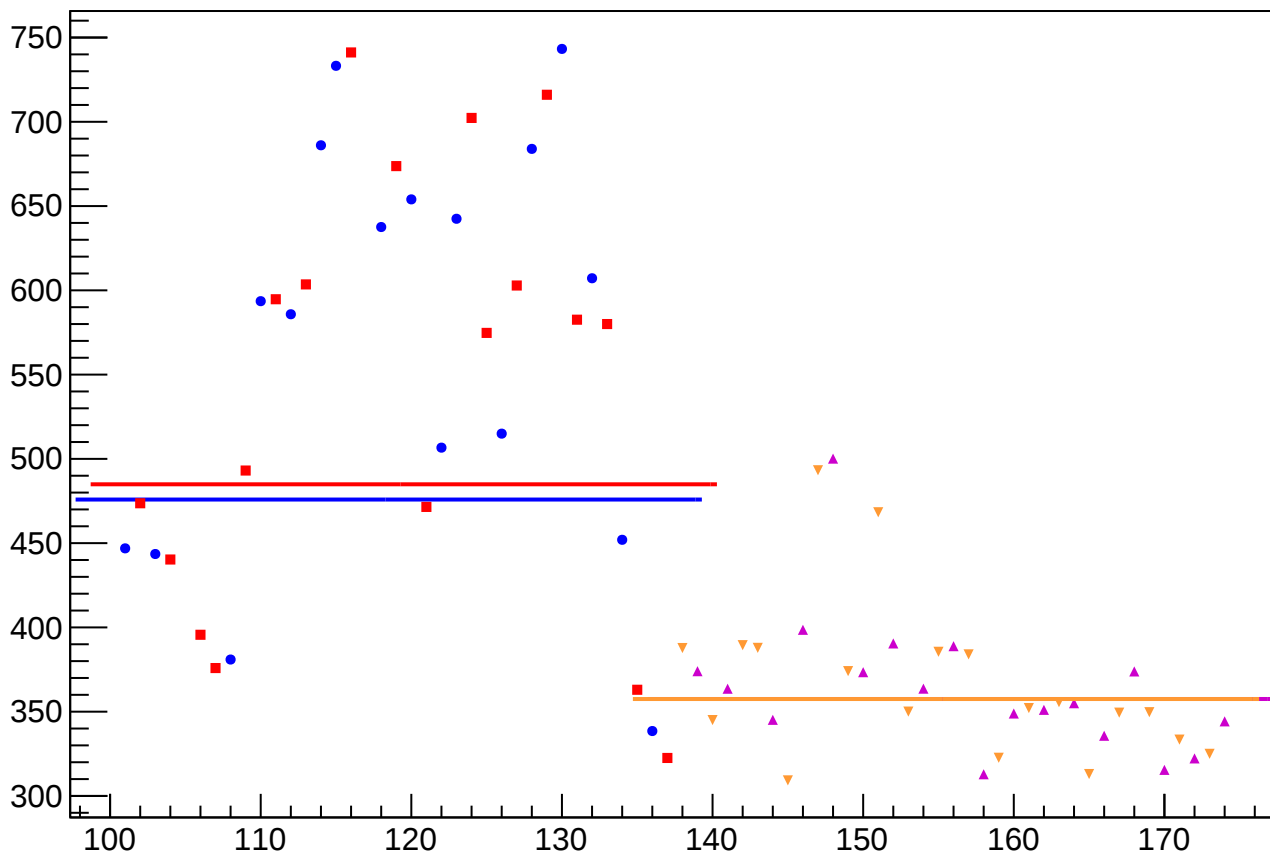
Right: -215.353 $\pm$ 133.518  $\chi^2$ /NDF: 31.7/34

In: -79.765 $\pm$ 85.340  $\chi^2$ /NDF:50.0/34

Out: -148.935 $\pm$ 84.781  $\chi^2$ /NDF:38.7/36

All: -114.577 $\pm$ 60.146  $\chi^2$ /NDF: 89.1/71

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: 357.508+/-0.067  $\chi^2/\text{NDF}$ : 357155.5/18

Right Out: 484.914+/-0.133  $\chi^2/\text{NDF}$ : 716315.8/17

Left In: 357.528+/-0.068  $\chi^2/\text{NDF}$ : 270042.3/17

Left: 357.518+/-0.048  $\chi^2/\text{NDF}$ : 627197.9/36

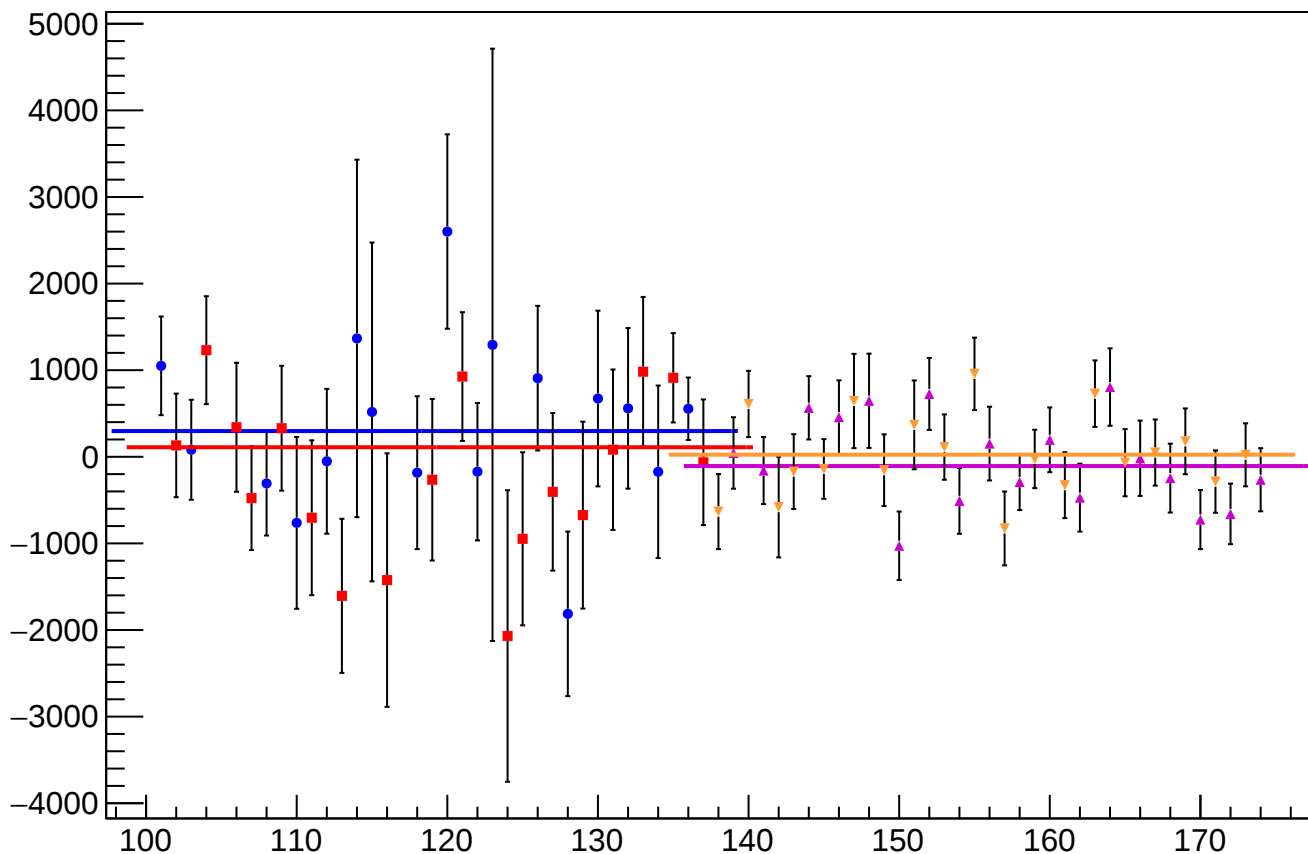
Right: 480.443+/-0.094  $\chi^2/\text{NDF}$ : 1556417.6/34

In: 381.431+/-0.060  $\chi^2/\text{NDF}$ : 1727763.9/34

Out: 383.479+/-0.060  $\chi^2/\text{NDF}$ : 1806501.9/36

All: 382.462+/-0.043  $\chi^2/\text{NDF}$ : 3534845.6/71

# 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: 24.469 $\pm$ 91.915  $\chi^2$ /NDF:22.3/18

Right Out: 110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

Left In: -106.929 $\pm$ 92.181  $\chi^2$ /NDF:30.3/17

Left: -41.041 $\pm$ 65.088  $\chi^2$ /NDF: 53.6/36

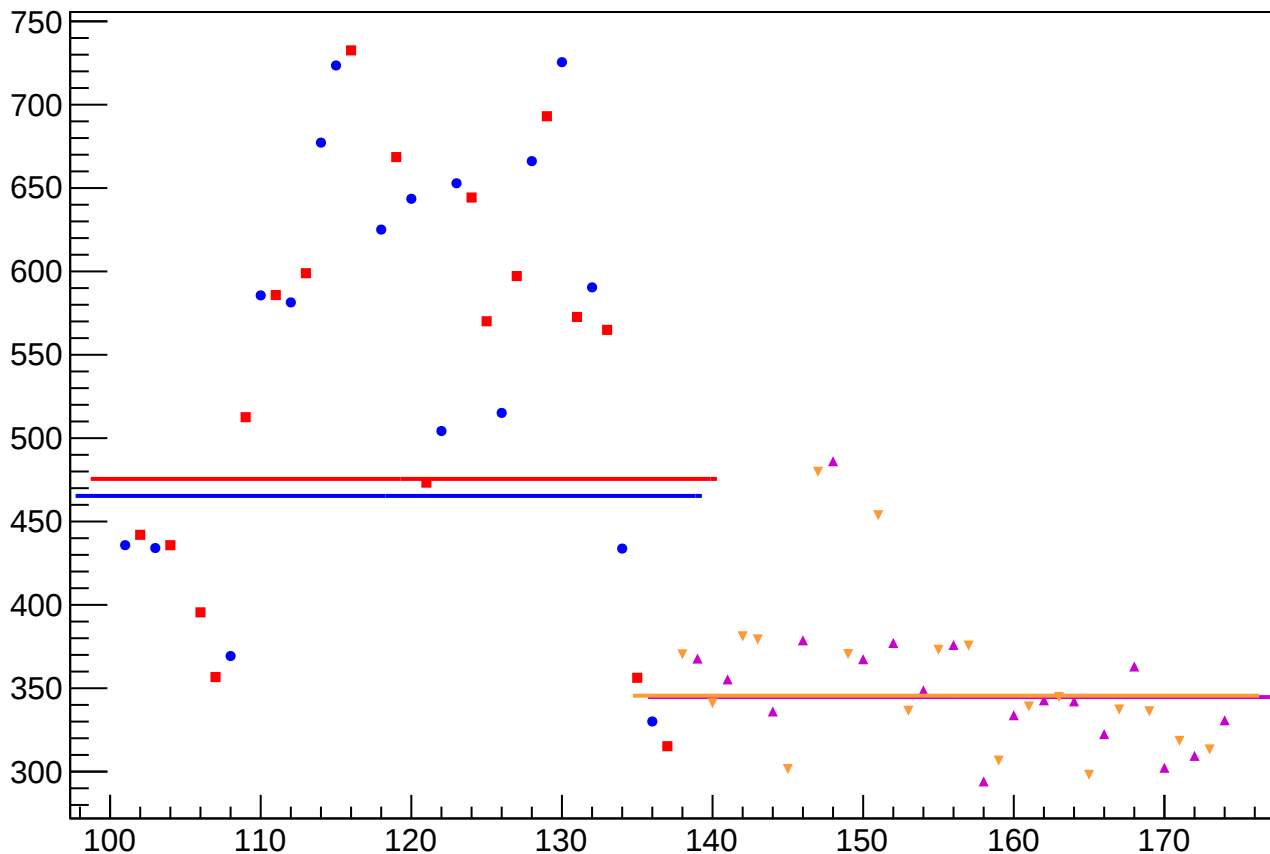
Right: 202.768 $\pm$ 130.944  $\chi^2$ /NDF: 34.9/34

In: -27.267 $\pm$ 82.592  $\chi^2$ /NDF:49.9/34

Out: 41.519 $\pm$ 82.262  $\chi^2$ /NDF:41.0/36

All: 7.263 $\pm$ 58.284  $\chi^2$ /NDF: 91.3/71

asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 465.356 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 345.557 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 383476.7/18

Right Out: 475.559 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 740849.9/17

Left In: 344.694 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 300756.6/17

Left: 345.127 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 684321.3/36

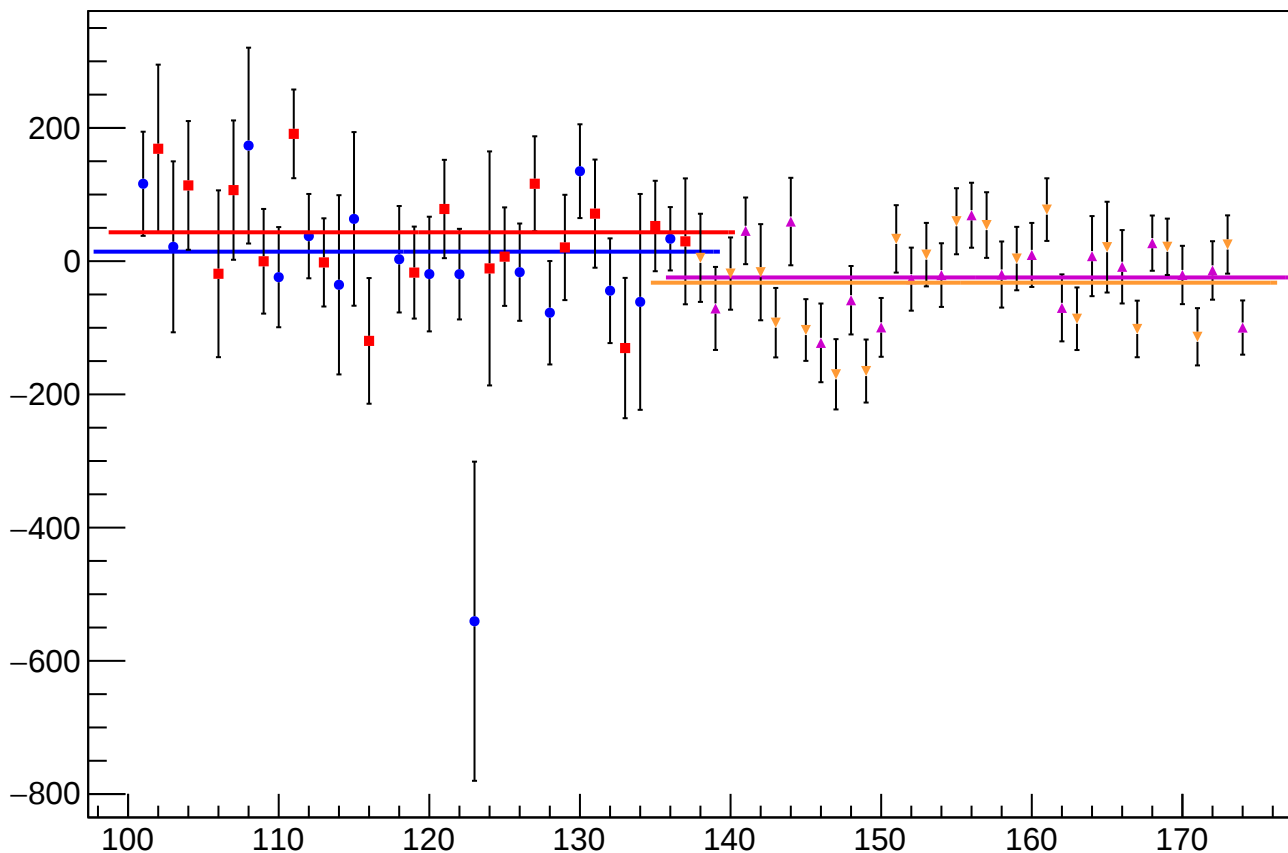
Right: 470.501 $\pm$ 0.093  $\chi^2/\text{NDF}$ : 1604306.1/34

In: 368.492 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 1837028.2/34

Out: 371.429 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 1920544.7/36

All: 369.966 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 3758843.1/71

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $14.253 \pm 19.867$   $\chi^2/\text{NDF}: 14.8/16$

Left Out:  $-32.324 \pm 11.331$   $\chi^2/\text{NDF}: 45.3/18$

Right Out:  $43.336 \pm 19.650$   $\chi^2/\text{NDF}: 16.2/17$

Left In:  $-24.456 \pm 11.594$   $\chi^2/\text{NDF}: 20.6/17$

Left:  $-28.480 \pm 8.104$   $\chi^2/\text{NDF}: 66.2/36$

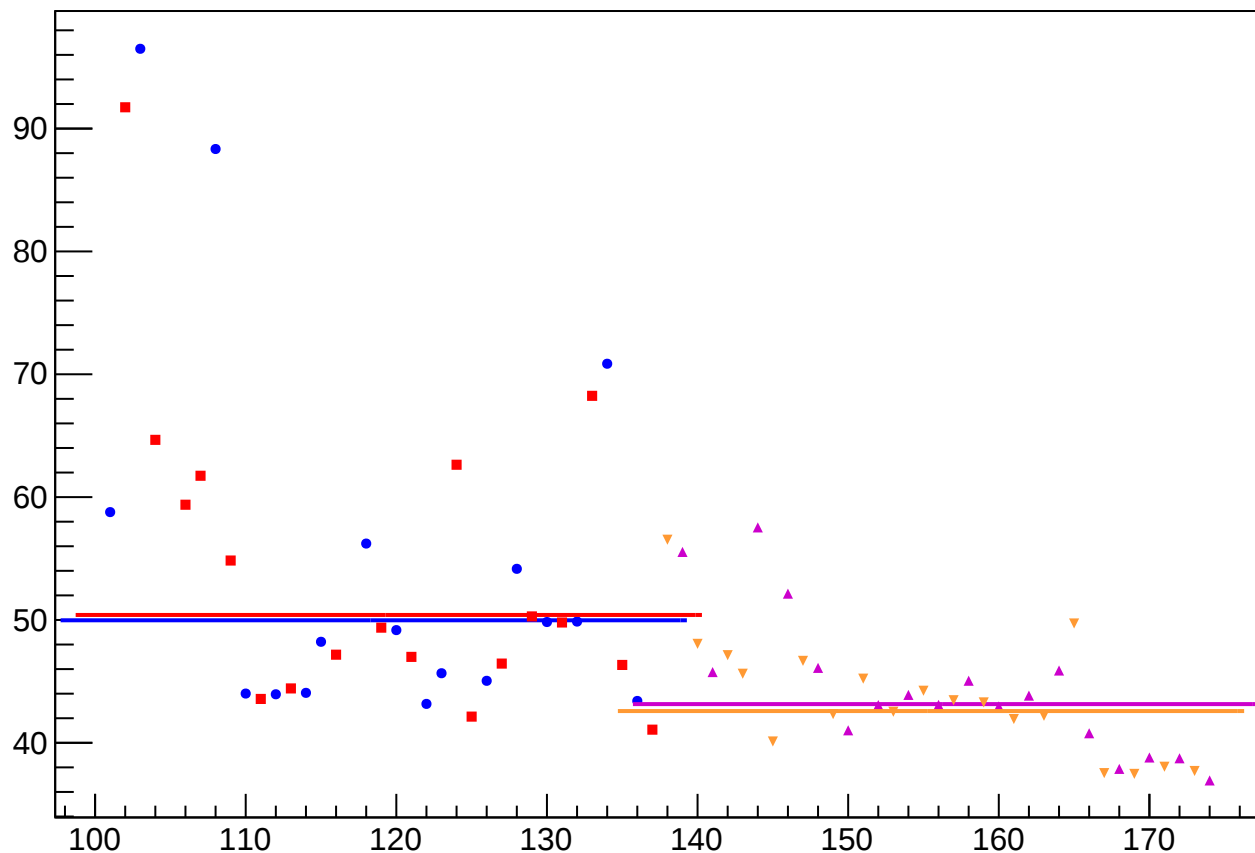
Right:  $28.954 \pm 13.971$   $\chi^2/\text{NDF}: 32.0/34$

In:  $-14.622 \pm 10.014$   $\chi^2/\text{NDF}: 38.3/34$

Out:  $-13.443 \pm 9.816$   $\chi^2/\text{NDF}: 72.6/36$

All:  $-14.021 \pm 7.010$   $\chi^2/\text{NDF}: 110.9/71$

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 49.973 $\pm$ 0.014  $\chi^2$ /NDF: 578750.7/16

Left Out: 42.585 $\pm$ 0.008  $\chi^2$ /NDF: 277531.5/18

Right Out: 50.408 $\pm$ 0.014  $\chi^2$ /NDF: 467481.4/17

Left In: 43.151 $\pm$ 0.008  $\chi^2$ /NDF: 368644.3/17

Left: 42.861 $\pm$ 0.006  $\chi^2$ /NDF: 648618.2/36

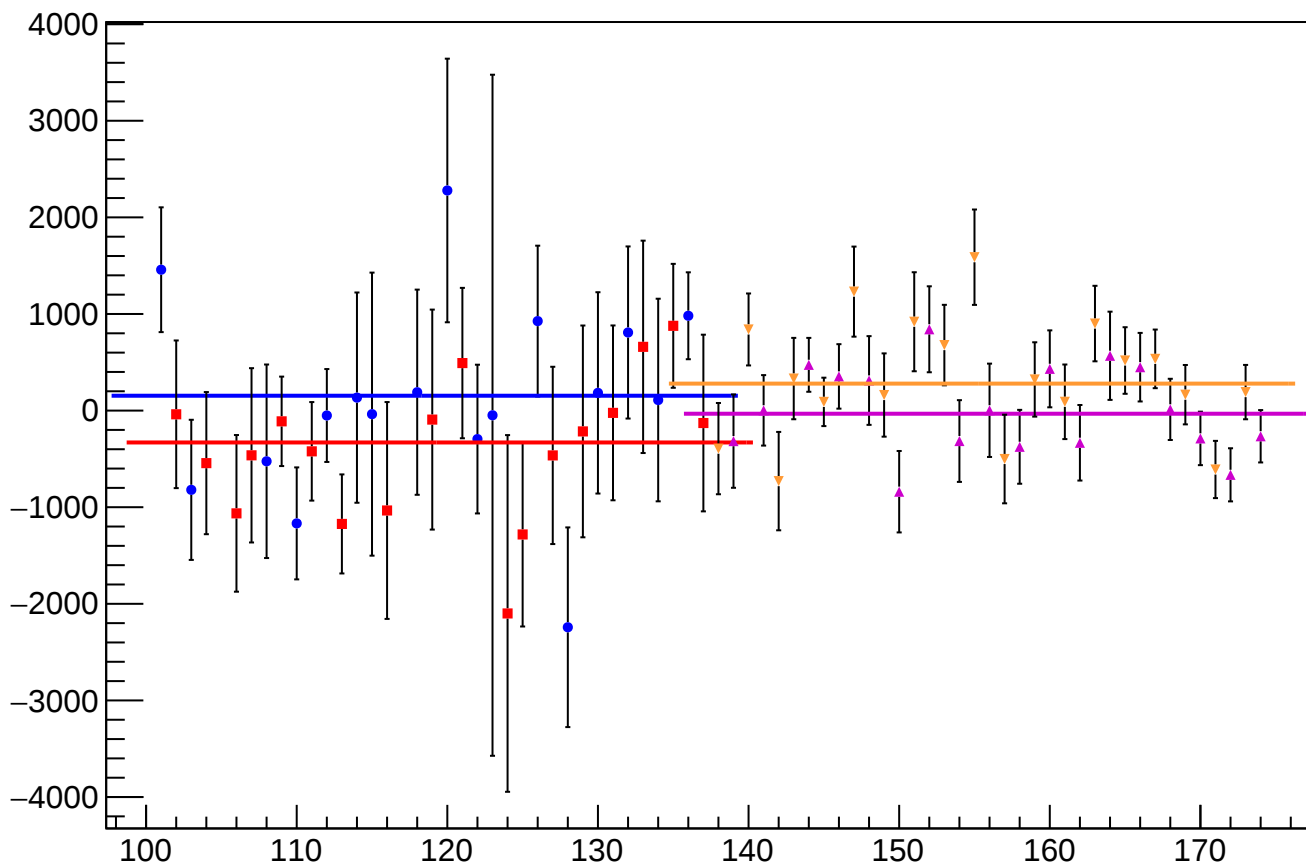
Right: 50.193 $\pm$ 0.010  $\chi^2$ /NDF: 1046716.4/34

In: 44.884 $\pm$ 0.007  $\chi^2$ /NDF: 1123310.6/34

Out: 44.537 $\pm$ 0.007  $\chi^2$ /NDF: 982928.9/36

All: 44.707 $\pm$ 0.005  $\chi^2$ /NDF: 2107467.1/71

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: 279.250 $\pm$ 84.677  $\chi^2$ /NDF:38.7/18

Right Out: -329.952 $\pm$ 179.795  $\chi^2$ /NDF: 12.1/17

Left In: -32.470 $\pm$ 84.146  $\chi^2$ /NDF:26.8/17

Left: 122.410 $\pm$ 59.687  $\chi^2$ /NDF: 72.2/36

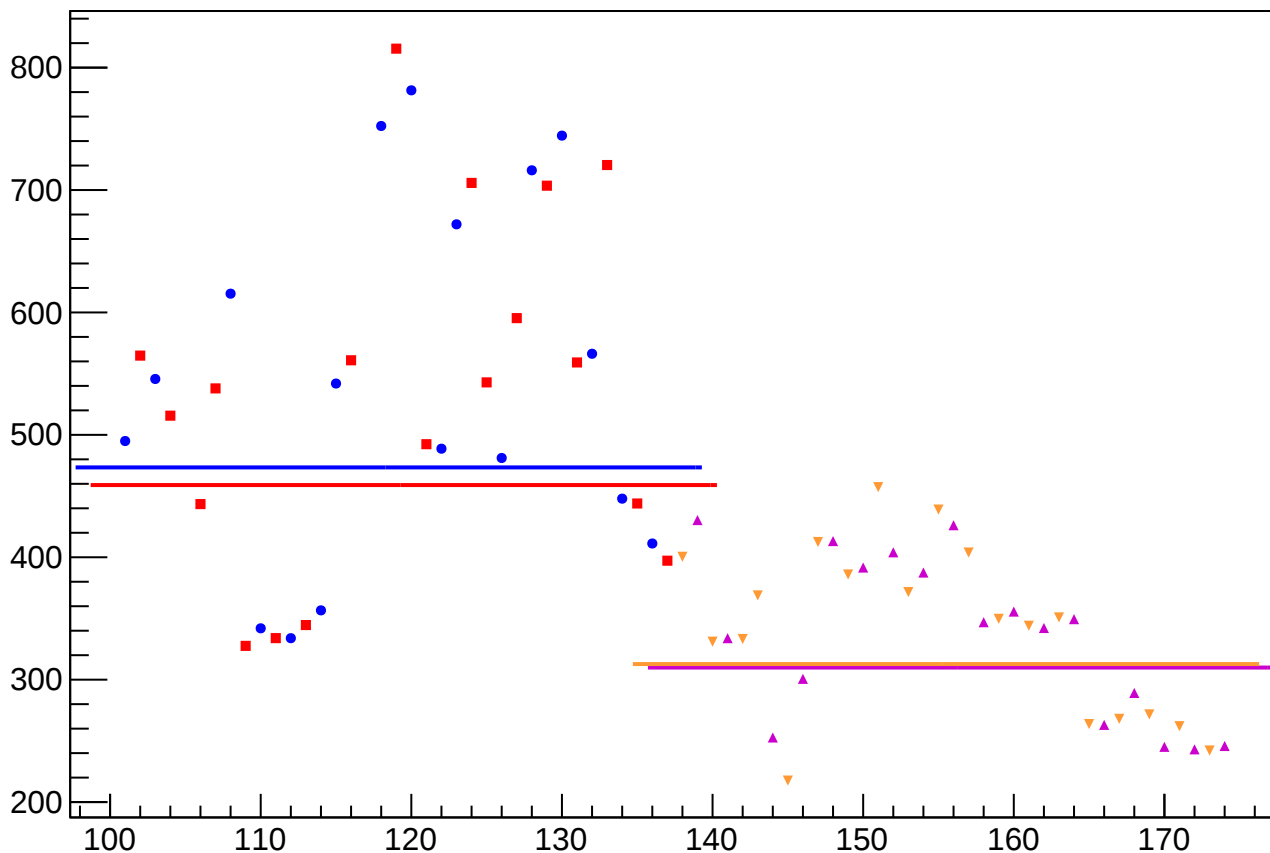
Right: -101.350 $\pm$ 130.581  $\chi^2$ /NDF: 40.3/34

In: -1.910 $\pm$ 76.936  $\chi^2$ /NDF:52.4/34

Out: 168.656 $\pm$ 76.606  $\chi^2$ /NDF:60.1/36

All: 83.739 $\pm$ 54.285  $\chi^2$ /NDF: 114.9/71

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: 312.759 $\pm$ 0.060  $\chi^2$ /NDF:1314287.4/18

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

Left In: 309.892 $\pm$ 0.059  $\chi^2$ /NDF:1124263.2/17

Left: 311.317 $\pm$ 0.042  $\chi^2$ /NDF: 2439703.4/36

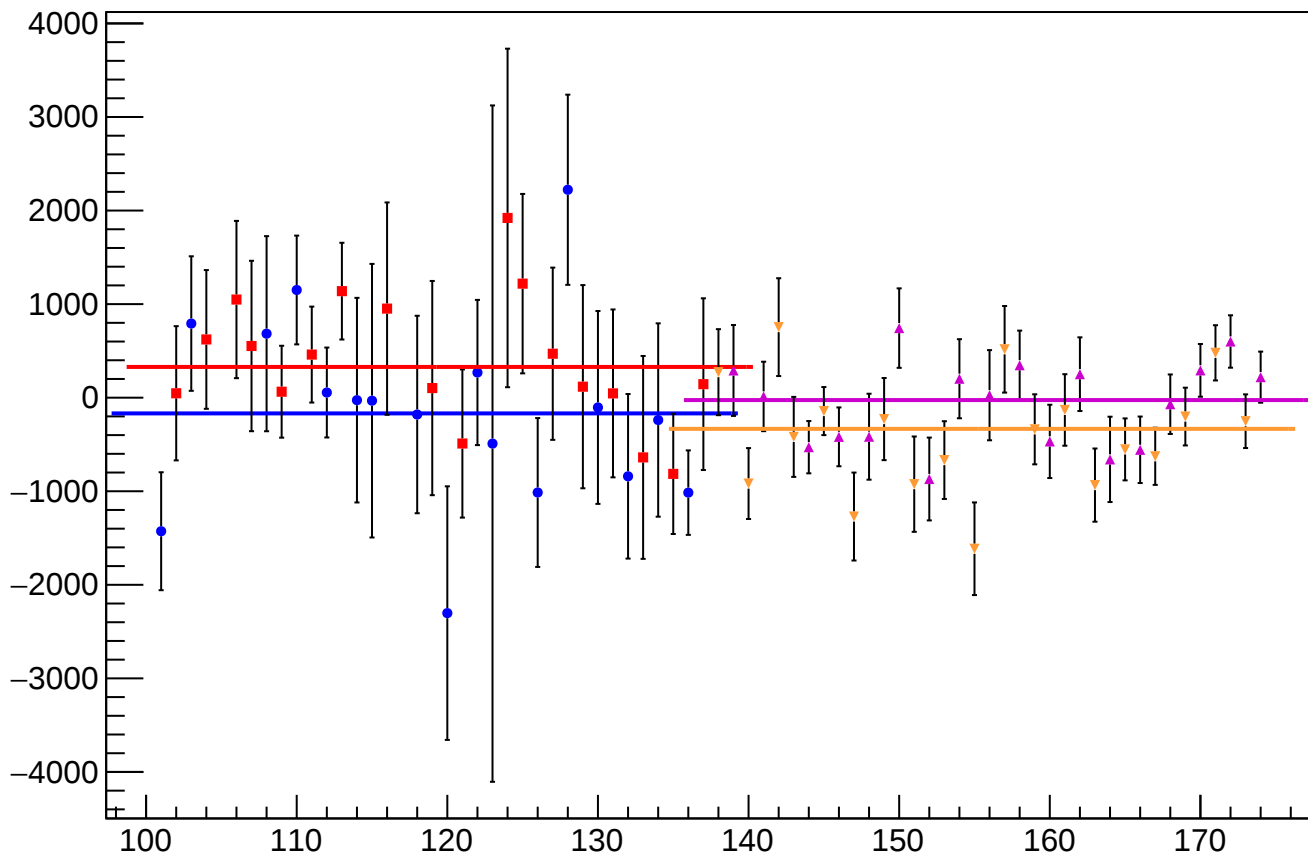
Right: 465.801 $\pm$ 0.092  $\chi^2$ /NDF: 1927262.4/34

In: 336.713 $\pm$ 0.054  $\chi^2$ /NDF:3277968.0/34

Out: 339.305 $\pm$ 0.054  $\chi^2$ /NDF:3403338.1/36

All: 338.015 $\pm$ 0.038  $\chi^2$ /NDF: 6682445.8/71

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: -333.228+/-84.950  $\chi^2/\text{NDF}$ : 37.0/18

Right Out: 328.598+/-181.559  $\chi^2/\text{NDF}$ : 11.1/17

Left In: -25.504+/-84.098  $\chi^2/\text{NDF}$ : 27.2/17

Left: -177.816+/-59.765  $\chi^2/\text{NDF}$ : 70.8/36

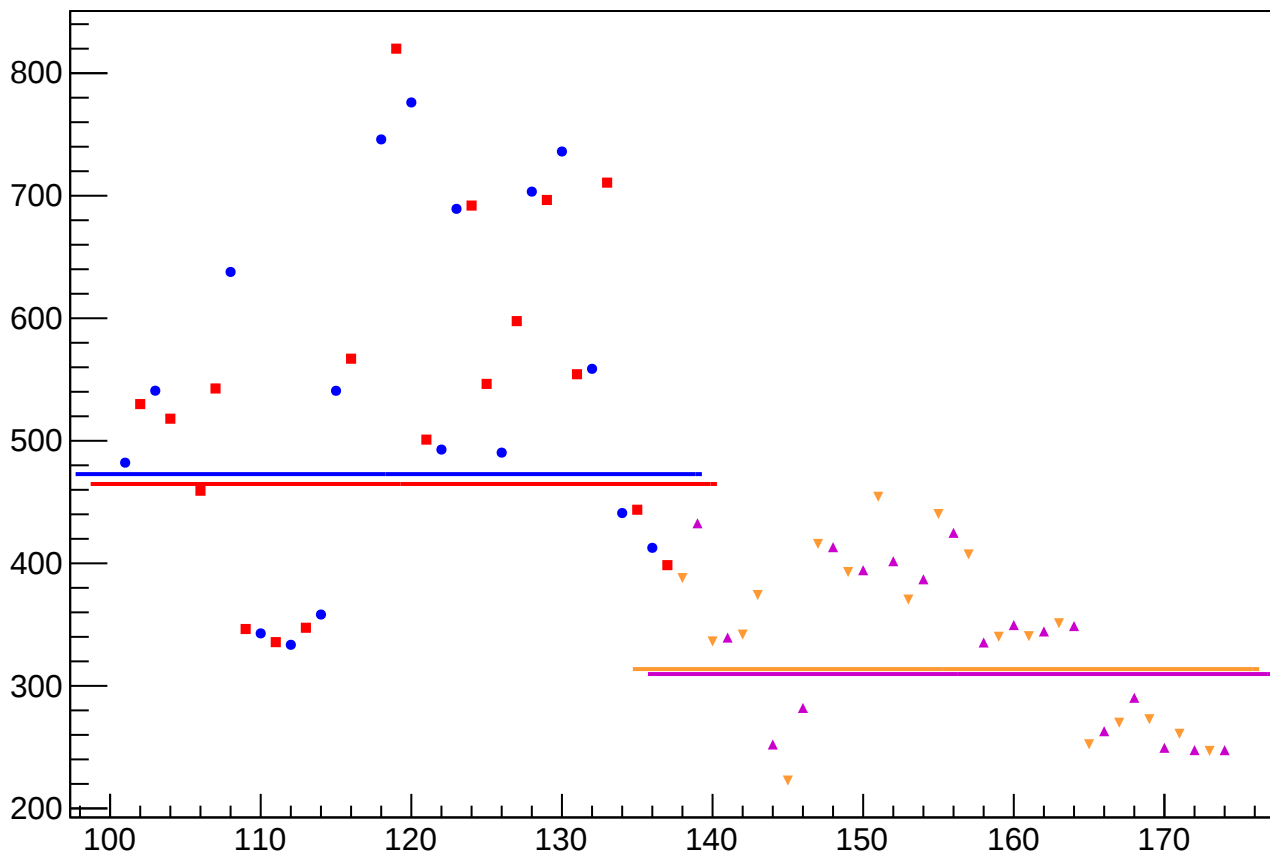
Right: 91.236+/-131.185  $\chi^2/\text{NDF}$ : 40.1/34

In: -48.905+/-76.886  $\chi^2/\text{NDF}$ : 53.1/34

Out: -214.363+/-76.944  $\chi^2/\text{NDF}$ : 59.0/36

All: -131.571+/-54.387  $\chi^2/\text{NDF}$ : 114.4/71

asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 313.711 $\pm$ 0.060  $\chi^2$ /NDF:1272943.7/18

Right Out: 464.761 $\pm$ 0.128  $\chi^2$ /NDF: 914781.1/17

Left In: 309.647 $\pm$ 0.059  $\chi^2$ /NDF:1086453.2/17

Left: 311.658 $\pm$ 0.042  $\chi^2$ /NDF: 2361708.7/36

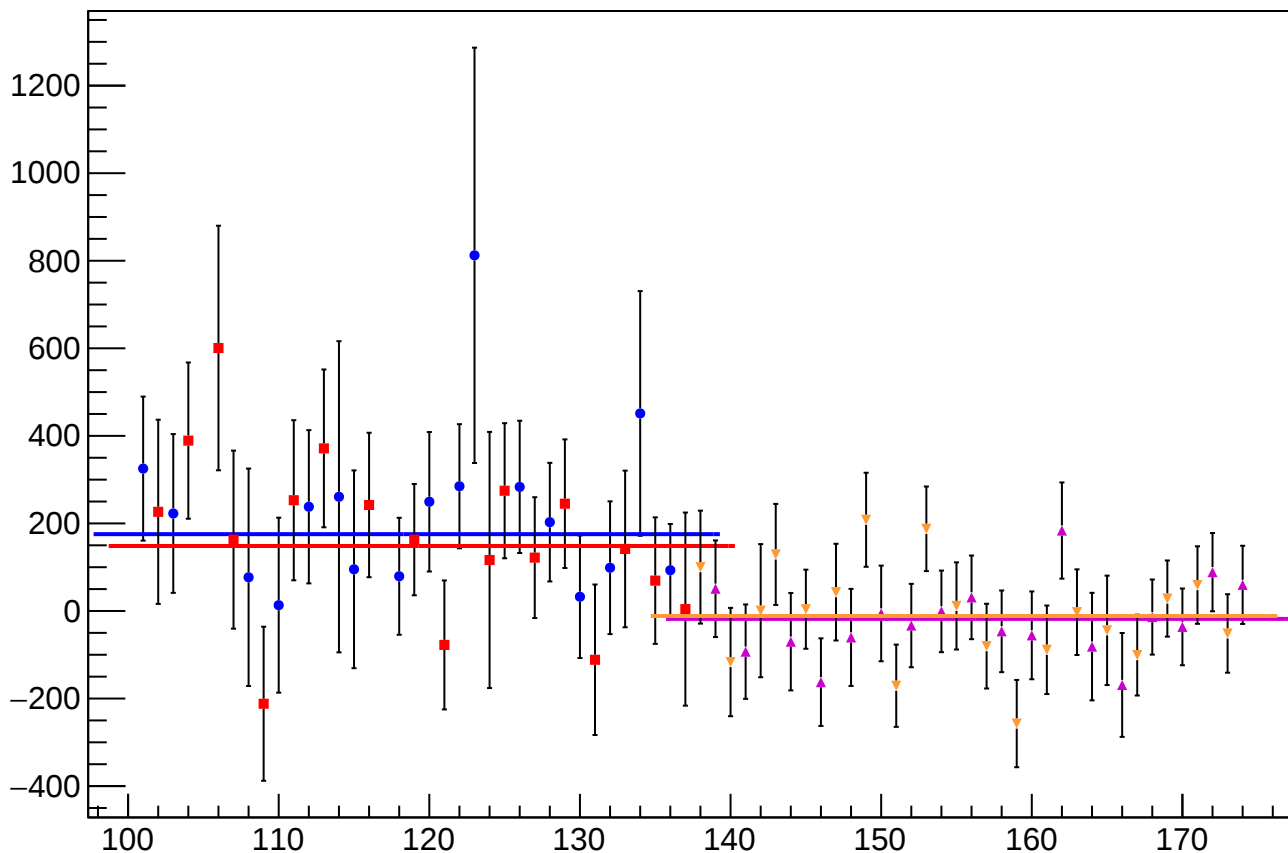
Right: 468.612 $\pm$ 0.093  $\chi^2$ /NDF: 1813037.9/34

In: 336.434 $\pm$ 0.054  $\chi^2$ /NDF:3218903.5/34

Out: 340.840 $\pm$ 0.054  $\chi^2$ /NDF:3323413.0/36

All: 338.635 $\pm$ 0.038  $\chi^2$ /NDF: 6545596.7/71

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In:  $175.468 \pm 40.358$   $\chi^2/\text{NDF}: 8.6/16$

Left Out:  $-11.457 \pm 23.366$   $\chi^2/\text{NDF}: 23.8/18$

Right Out:  $148.445 \pm 40.332$   $\chi^2/\text{NDF}: 17.5/17$

Left In:  $-18.091 \pm 23.571$   $\chi^2/\text{NDF}: 11.4/17$

Left:  $-14.745 \pm 16.594$   $\chi^2/\text{NDF}: 35.2/36$

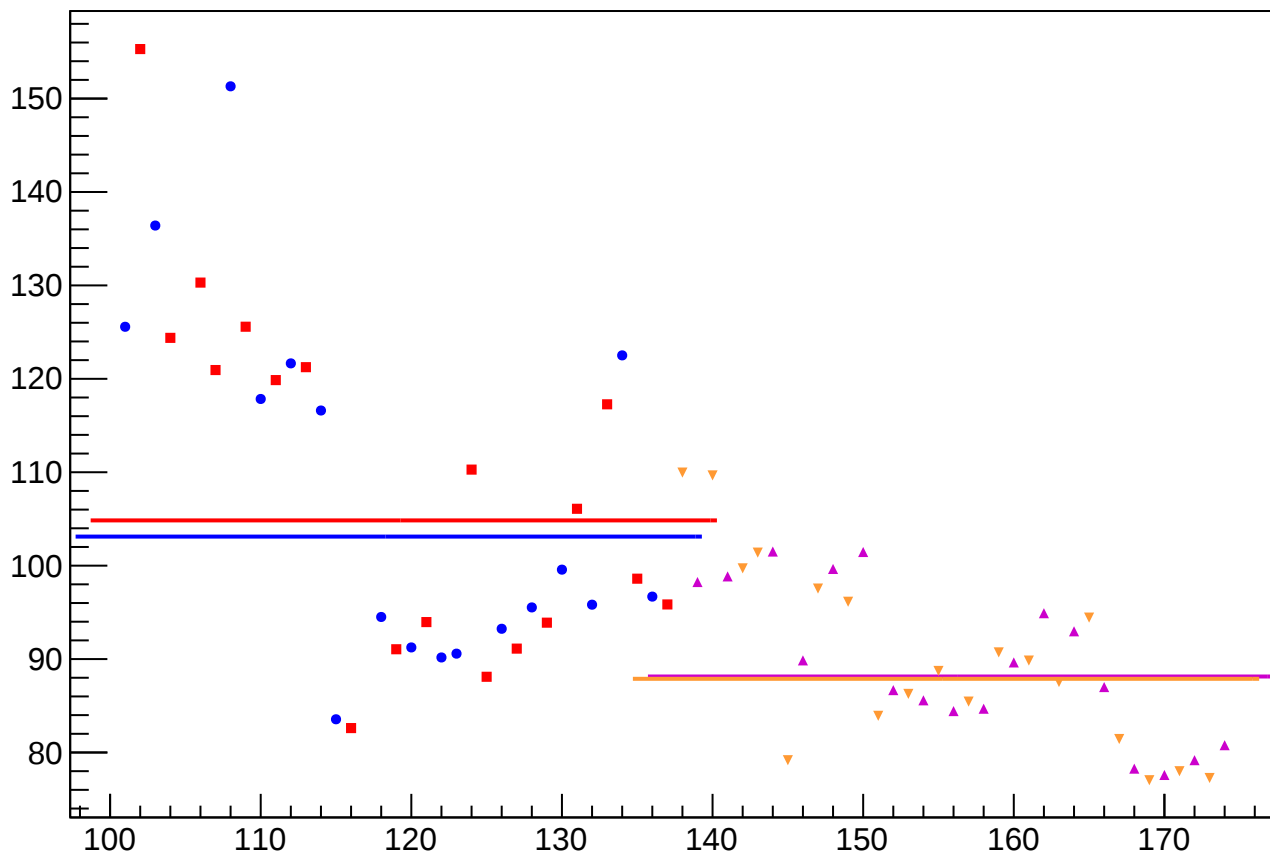
Right:  $161.947 \pm 28.528$   $\chi^2/\text{NDF}: 26.3/34$

In:  $31.138 \pm 20.354$   $\chi^2/\text{NDF}: 37.1/34$

Out:  $28.727 \pm 20.218$   $\chi^2/\text{NDF}: 53.1/36$

All:  $29.924 \pm 14.344$   $\chi^2/\text{NDF}: 90.2/71$

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: 87.887 $\pm$ 0.017  $\chi^2$ /NDF: 313052.0/18

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

Left In: 88.134 $\pm$ 0.017  $\chi^2$ /NDF: 225420.4/17

Left: 88.010 $\pm$ 0.012  $\chi^2$ /NDF: 538583.2/36

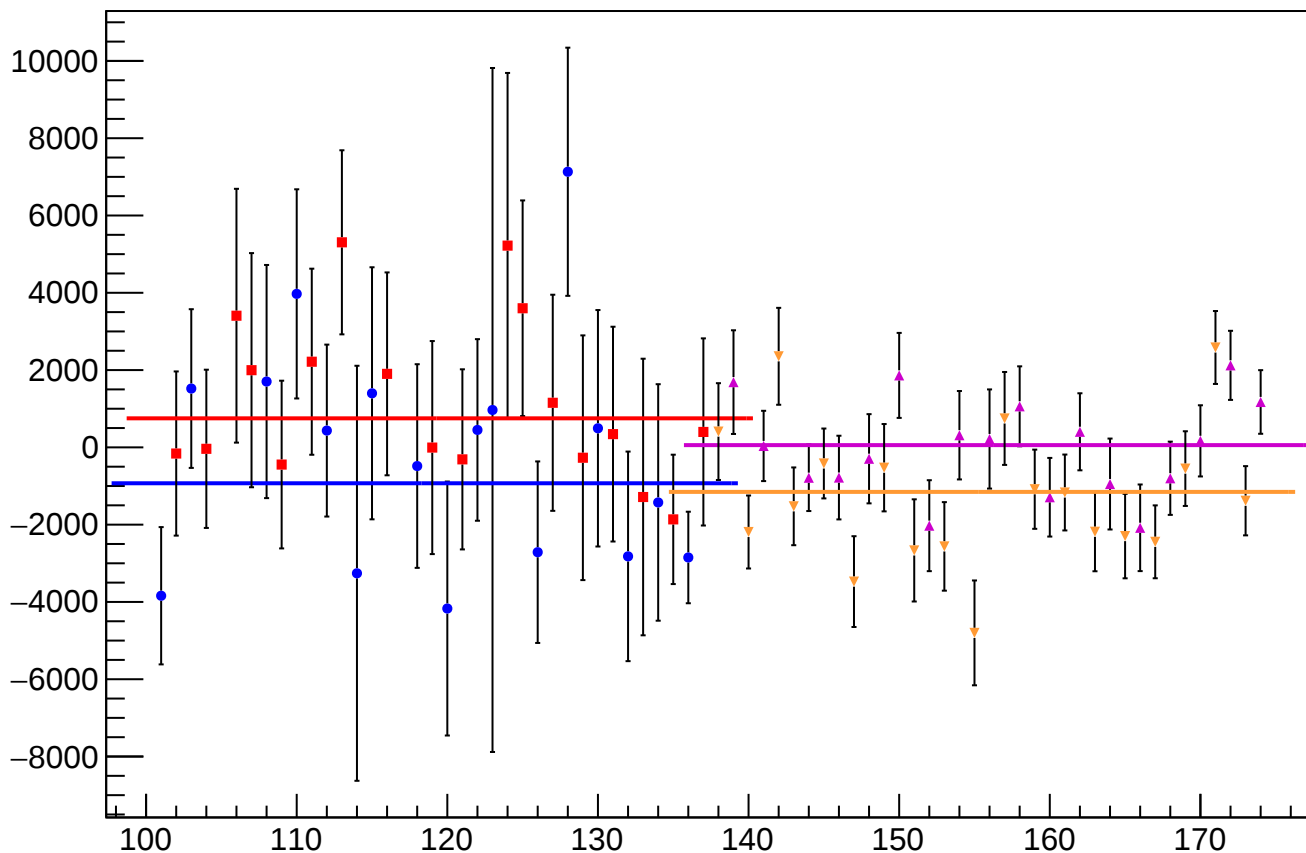
Right: 103.979 $\pm$ 0.020  $\chi^2$ /NDF: 676958.3/34

In: 91.944 $\pm$ 0.014  $\chi^2$ /NDF: 737264.6/34

Out: 92.148 $\pm$ 0.014  $\chi^2$ /NDF: 946416.1/36

All: 92.047 $\pm$ 0.010  $\chi^2$ /NDF: 1683782.6/71

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: -1152.128+/-242.311  $\chi^2/\text{NDF}$ : 48.3/18

Right Out: 751.262+/-594.960  $\chi^2/\text{NDF}$ : 10.9/17

Left In: 58.060+/-241.967  $\chi^2/\text{NDF}$ : 24.2/17

Left: -546.175+/-171.218  $\chi^2/\text{NDF}$ : 85.0/36

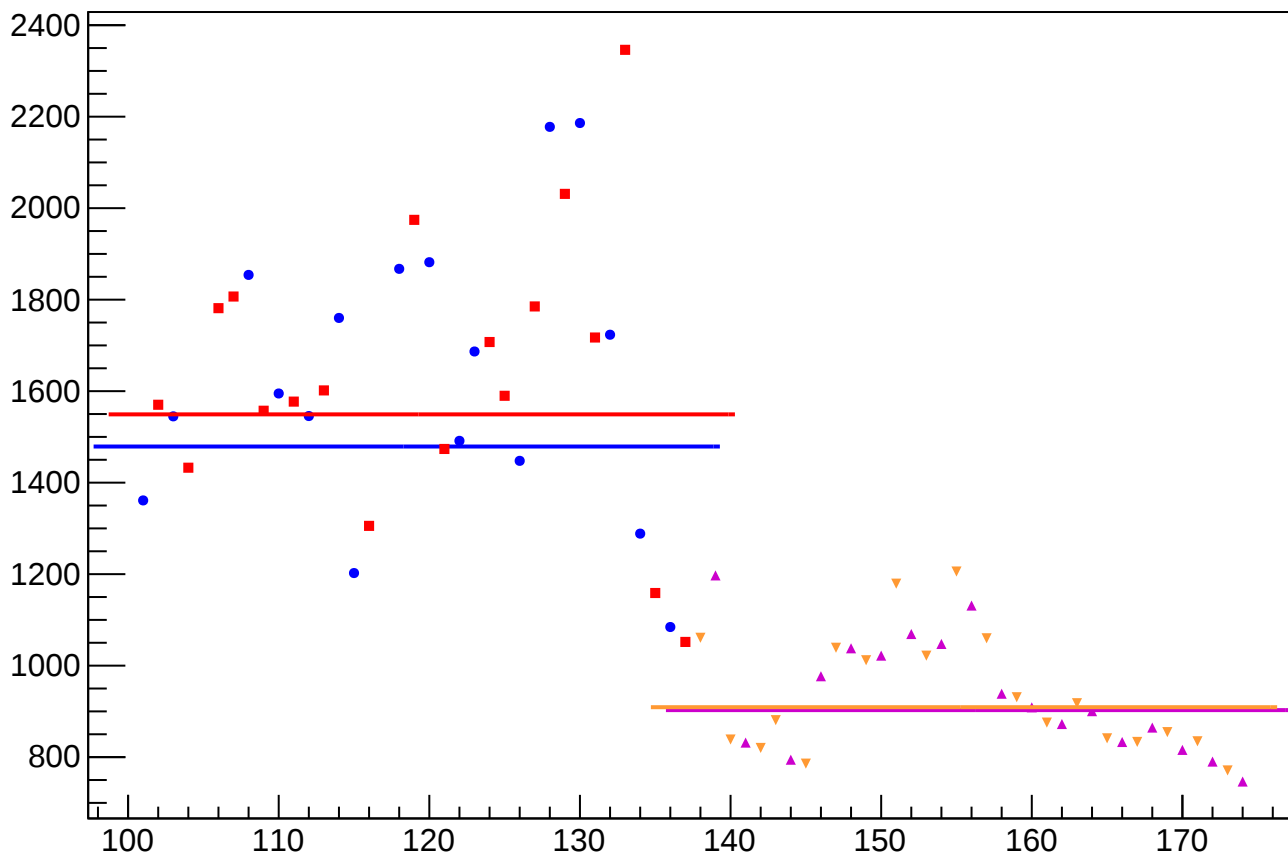
Right: -100.195+/-417.846  $\chi^2/\text{NDF}$ : 35.8/34

In: -85.302+/-223.705  $\chi^2/\text{NDF}$ : 47.5/34

Out: -881.330+/-224.413  $\chi^2/\text{NDF}$ : 68.0/36

All: -482.058+/-158.433  $\chi^2/\text{NDF}$ : 121.8/71

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: 909.152+/-0.171  $\chi^2/\text{NDF}$ : 450781.0/18

Right Out: 1549.266+/-0.421  $\chi^2/\text{NDF}$ : 462557.8/17

Left In: 902.795+/-0.171  $\chi^2/\text{NDF}$ : 472518.6/17

Left: 905.969+/-0.121  $\chi^2/\text{NDF}$ : 923988.8/36

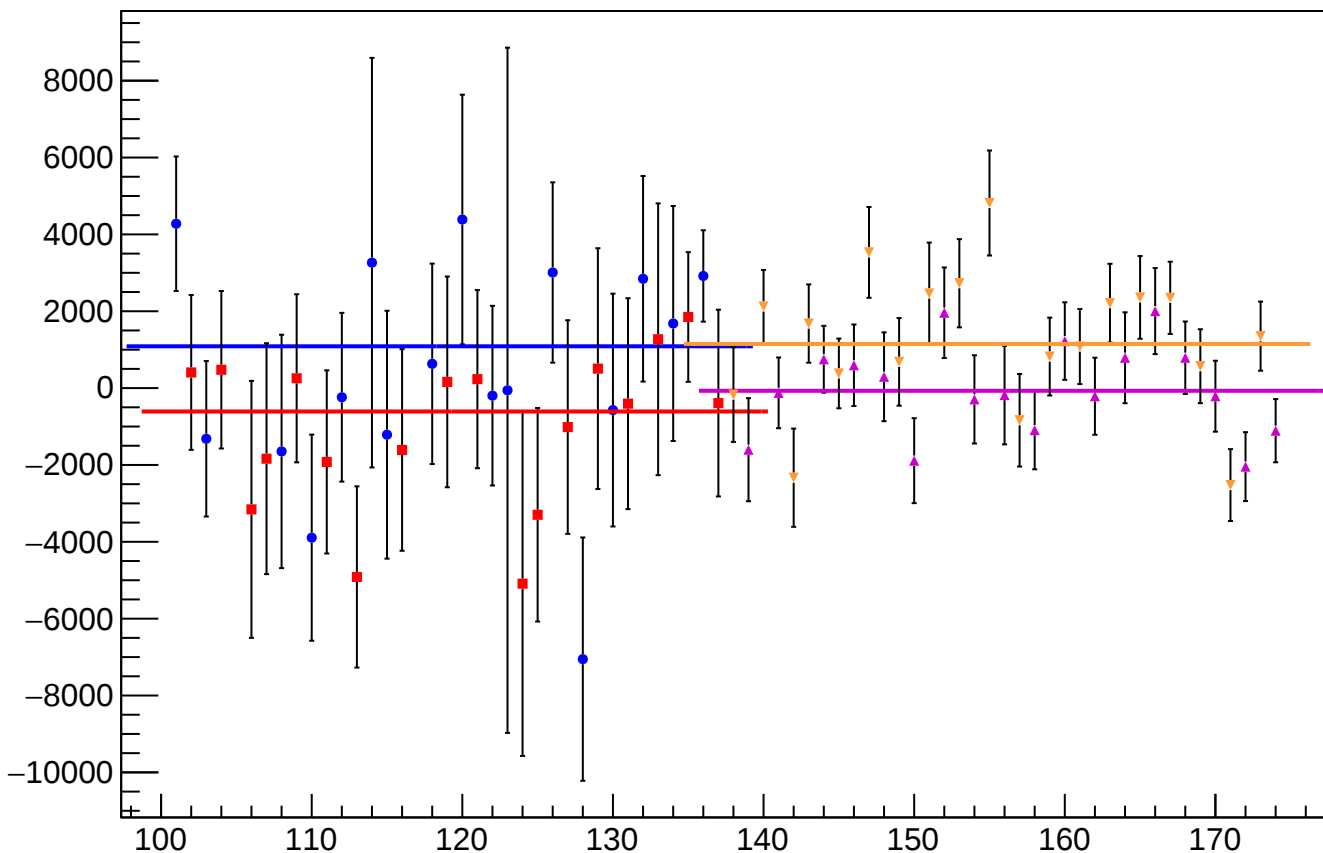
Right: 1513.653+/-0.295  $\chi^2/\text{NDF}$ : 1066318.9/34

In: 986.489+/-0.158  $\chi^2/\text{NDF}$ : 2709464.6/34

Out: 1000.222+/-0.159  $\chi^2/\text{NDF}$ : 2899063.8/36

All: 993.334+/-0.112  $\chi^2/\text{NDF}$ : 5612285.4/71

# asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 1149.011 $\pm$ 242.361  $\chi^2$ /NDF:47.5/18

Right Out: -607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

Left In: -69.752 $\pm$ 241.996  $\chi^2$ /NDF:22.3/17

Left: 538.712 $\pm$ 171.246  $\chi^2$ /NDF: 82.5/36

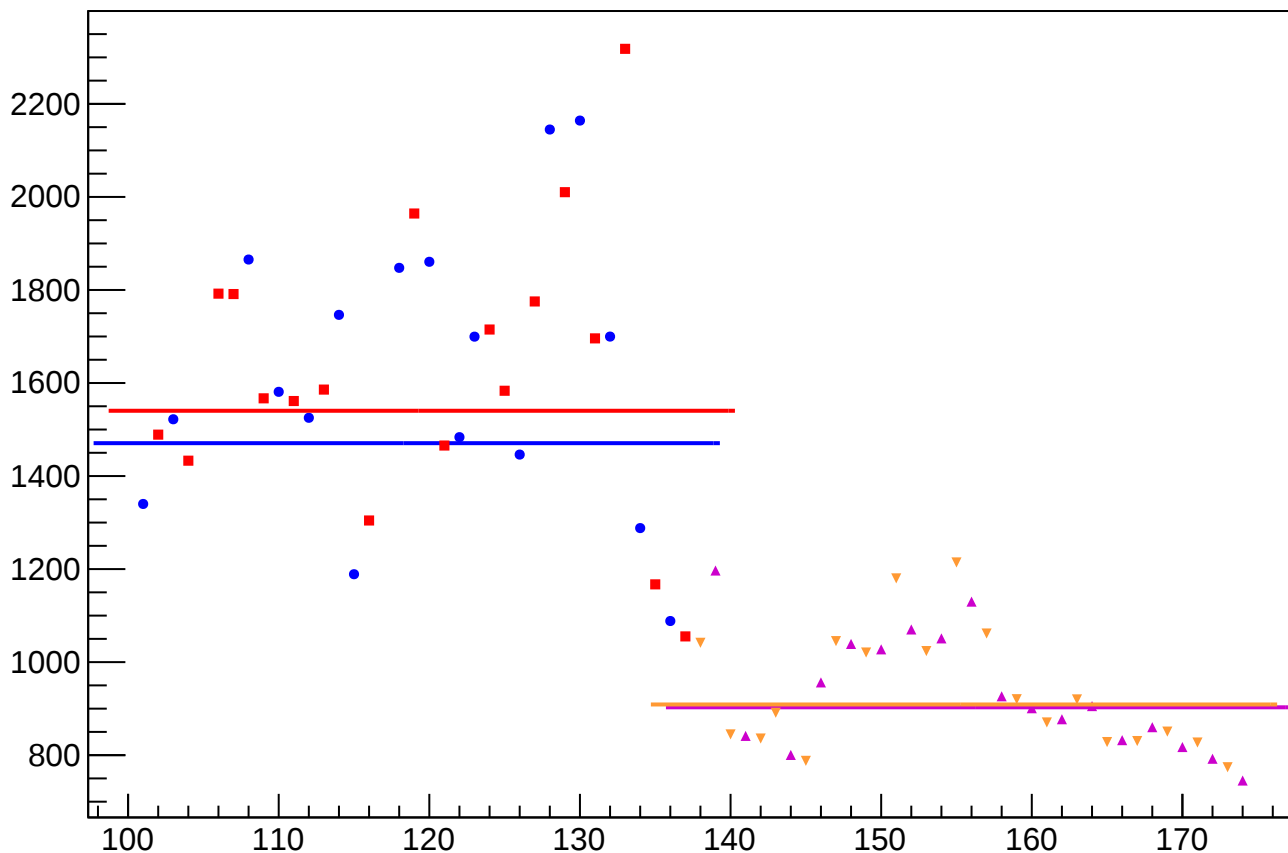
Right: 251.899 $\pm$ 415.351  $\chi^2$ /NDF: 35.9/34

In: 100.243 $\pm$ 223.524  $\chi^2$ /NDF:47.5/34

Out: 896.484 $\pm$ 224.268  $\chi^2$ /NDF:65.0/36

All: 497.042 $\pm$ 158.318  $\chi^2$ /NDF: 118.9/71

# 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: 908.968 $\pm$ 0.171  $\chi^2/\text{NDF}$ : 453246.3/18

Right Out: 1540.341 $\pm$ 0.418  $\chi^2/\text{NDF}$ : 442804.3/17

Left In: 902.869 $\pm$ 0.171  $\chi^2/\text{NDF}$ : 462867.9/17

Left: 905.914 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 916748.5/36

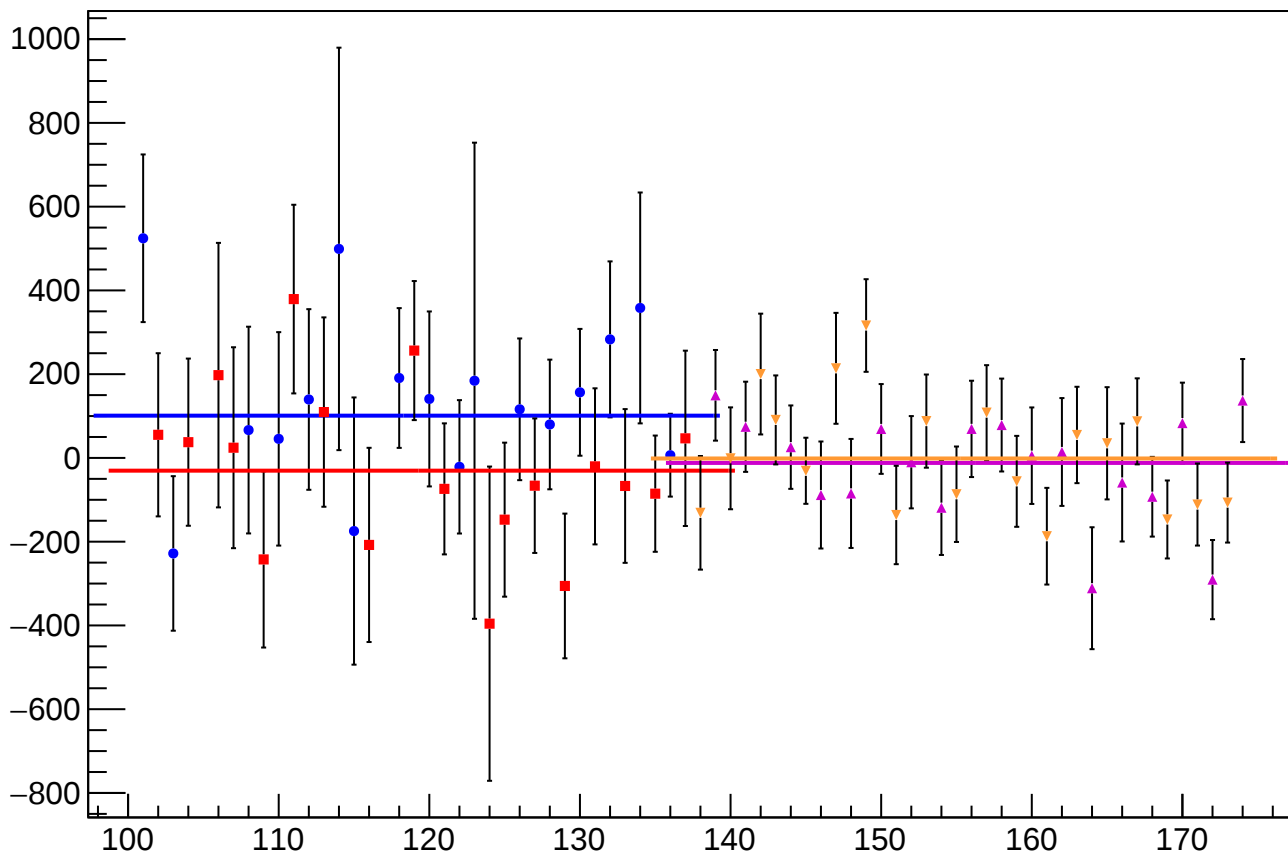
Right: 1505.024 $\pm$ 0.294  $\chi^2/\text{NDF}$ : 1024593.2/34

In: 986.243 $\pm$ 0.158  $\chi^2/\text{NDF}$ : 2647381.4/34

Out: 999.716 $\pm$ 0.159  $\chi^2/\text{NDF}$ : 2846921.2/36

All: 992.957 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 5497923.7/71

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:  $-1.316 \pm 25.148$   $\chi^2/\text{NDF}$ : 26.9/18

Right Out:  $-30.411 \pm 45.710$   $\chi^2/\text{NDF}$ : 13.5/17

Left In:  $-11.943 \pm 26.152$   $\chi^2/\text{NDF}$ : 23.3/17

Left:  $-6.422 \pm 18.127$   $\chi^2/\text{NDF}$ : 50.4/36

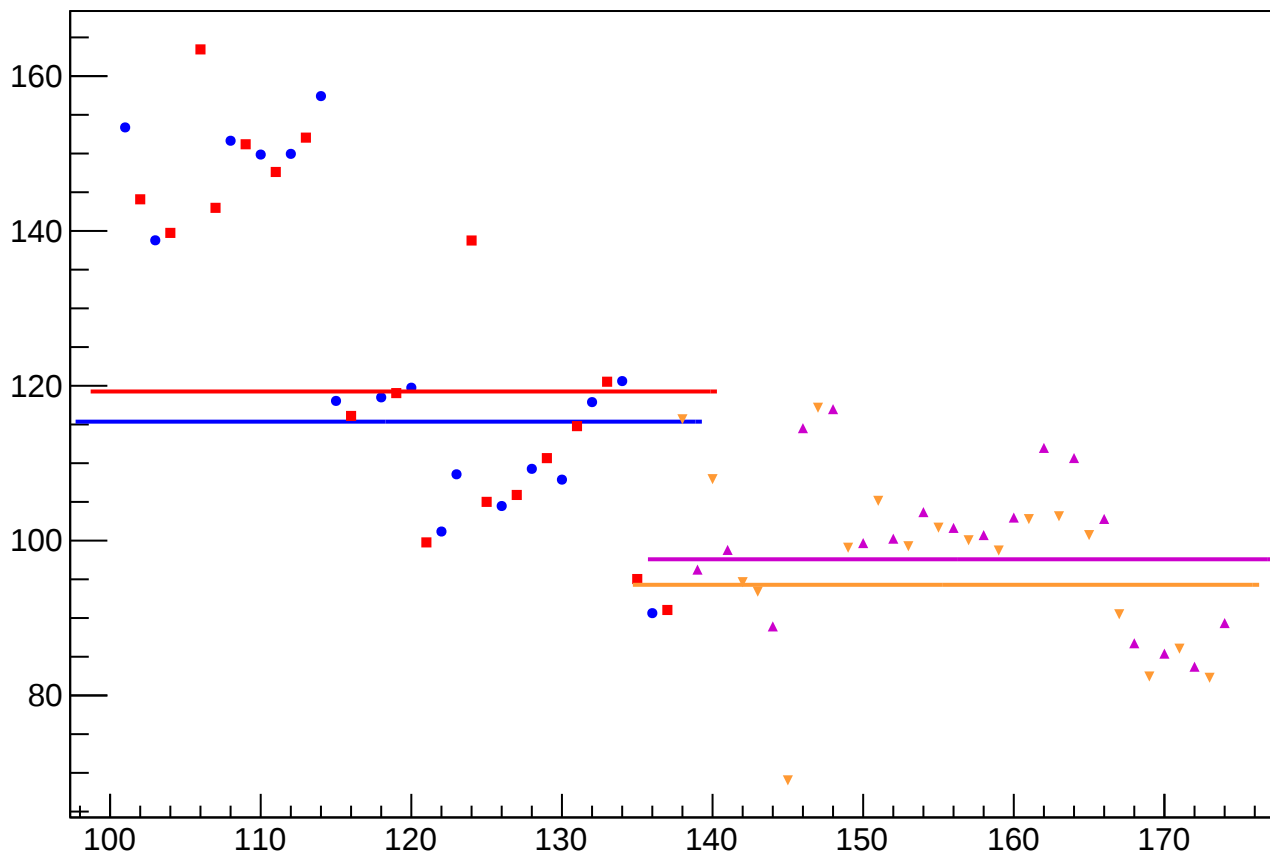
Right:  $35.869 \pm 32.170$   $\chi^2/\text{NDF}$ : 30.7/34

In:  $16.284 \pm 22.647$   $\chi^2/\text{NDF}$ : 41.0/34

Out:  $-8.076 \pm 22.033$   $\chi^2/\text{NDF}$ : 40.7/36

All:  $3.770 \pm 15.792$   $\chi^2/\text{NDF}$ : 82.4/71

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: 94.292 $\pm$ 0.018  $\chi^2$ /NDF: 489484.9/18

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

Left In: 97.588 $\pm$ 0.018  $\chi^2$ /NDF: 270073.8/17

Left: 95.875 $\pm$ 0.013  $\chi^2$ /NDF: 776066.7/36

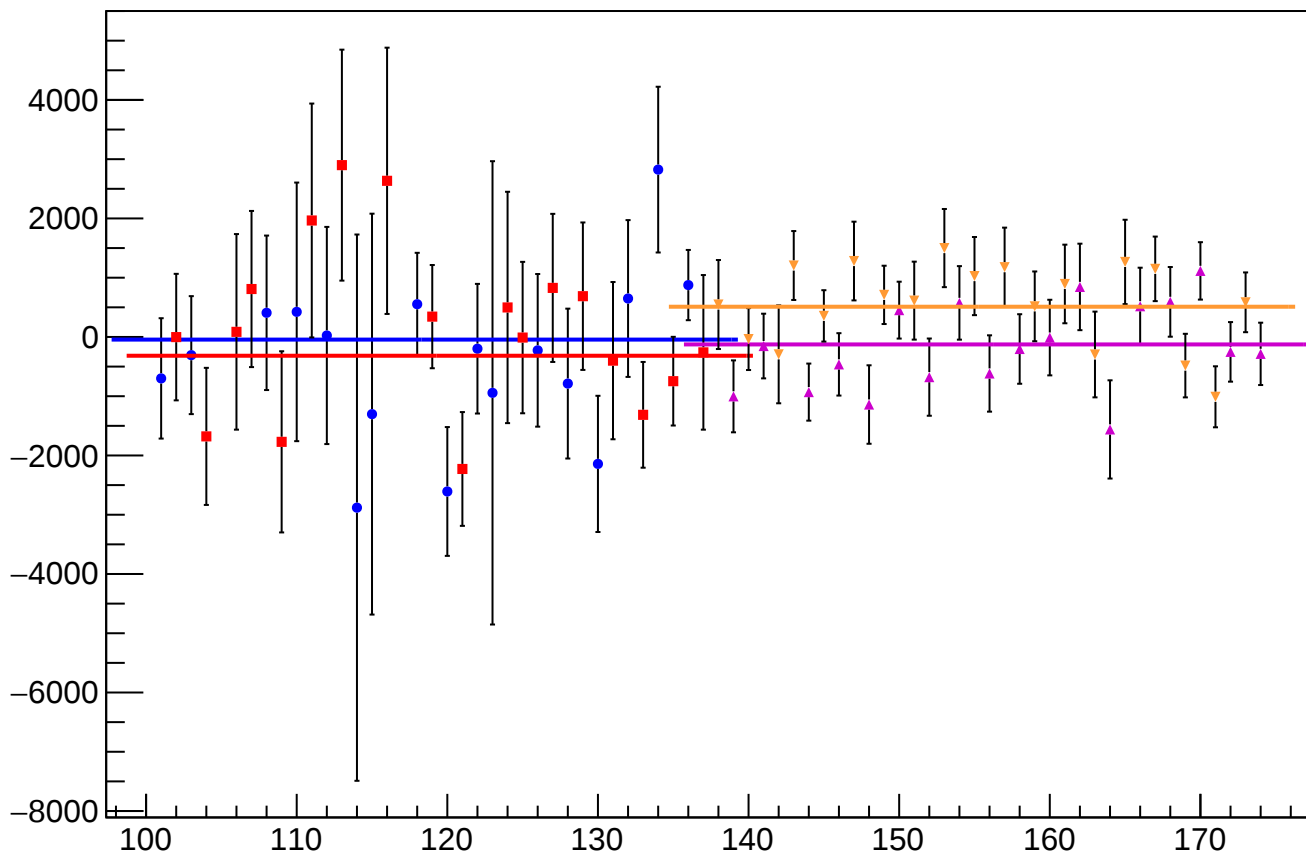
Right: 117.296 $\pm$ 0.023  $\chi^2$ /NDF: 817014.4/34

In: 102.035 $\pm$ 0.016  $\chi^2$ /NDF: 912606.0/34

Out: 100.094 $\pm$ 0.016  $\chi^2$ /NDF: 1345988.1/36

All: 101.038 $\pm$ 0.011  $\chi^2$ /NDF: 2266139.5/71

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:  $510.148 \pm 135.667$   $\chi^2/\text{NDF}$ : 25.3/18

Right Out:  $-316.976 \pm 283.113$   $\chi^2/\text{NDF}$ : 16.8/17

Left In:  $-126.140 \pm 136.379$   $\chi^2/\text{NDF}$ : 25.7/17

Left:  $193.668 \pm 96.182$   $\chi^2/\text{NDF}$ : 61.9/36

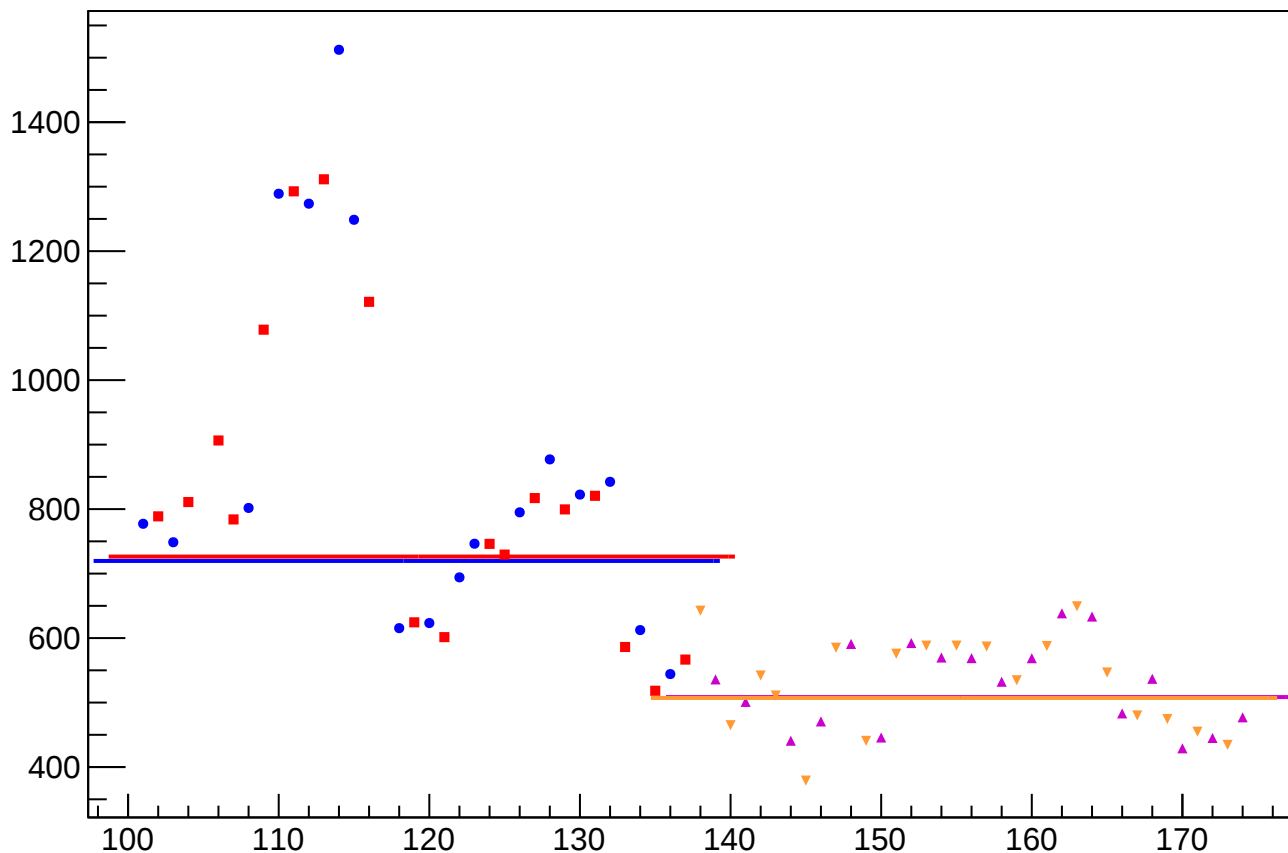
Right:  $-182.282 \pm 201.303$   $\chi^2/\text{NDF}$ : 35.1/34

In:  $-111.049 \pm 123.122$   $\chi^2/\text{NDF}$ : 43.6/34

Out:  $355.684 \pm 122.345$   $\chi^2/\text{NDF}$ : 49.0/36

All:  $123.795 \pm 86.784$   $\chi^2/\text{NDF}$ : 99.8/71

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 507.163 $\pm$ 0.096  $\chi^2$ /NDF: 623385.3/18

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

Left In: 508.551 $\pm$ 0.096  $\chi^2$ /NDF: 419923.2/17

Left: 507.854 $\pm$ 0.068  $\chi^2$ /NDF: 1043412.6/36

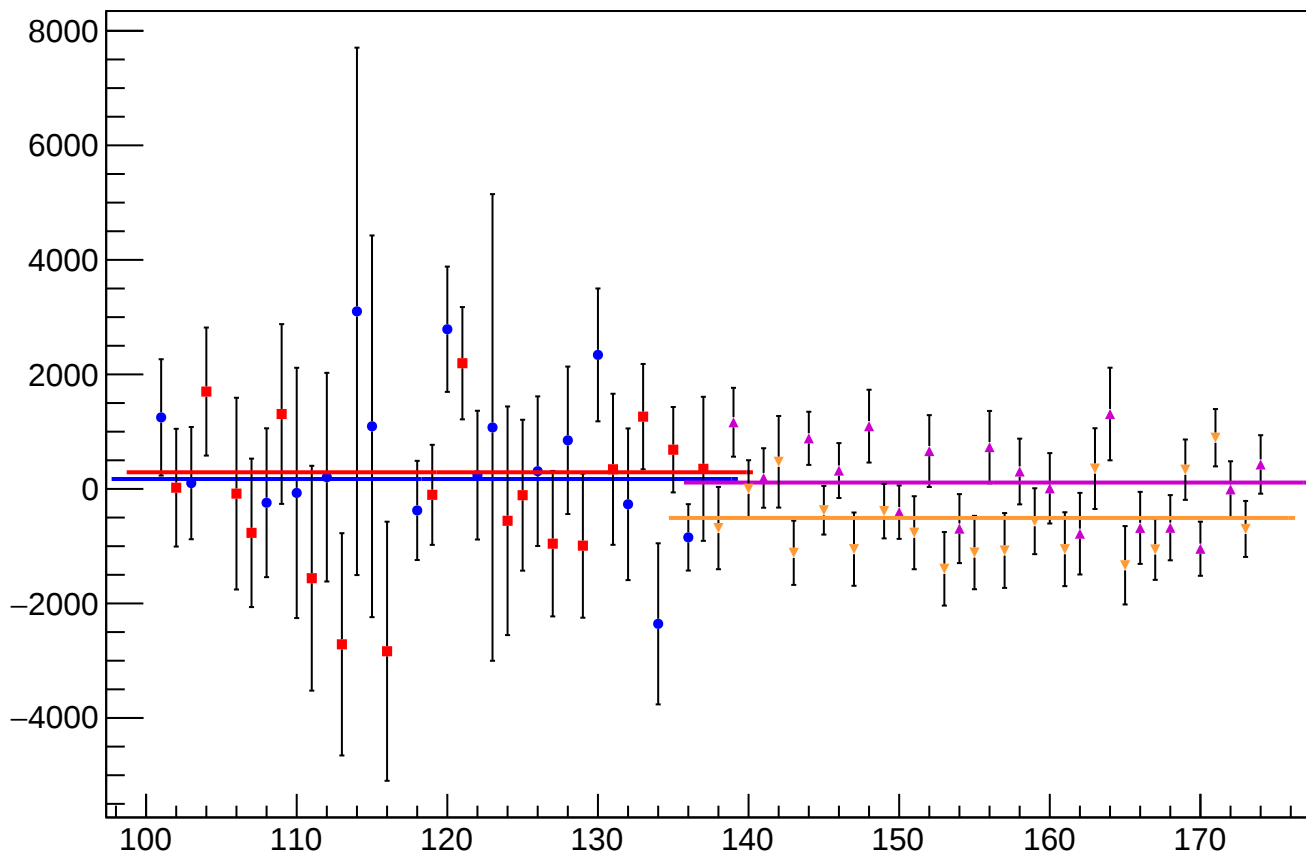
Right: 723.039 $\pm$ 0.142  $\chi^2$ /NDF: 1628507.7/34

In: 547.588 $\pm$ 0.087  $\chi^2$ /NDF: 2052813.1/34

Out: 548.105 $\pm$ 0.087  $\chi^2$ /NDF: 2479702.9/36

All: 547.848 $\pm$ 0.061  $\chi^2$ /NDF: 4532533.7/71

# 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: -506.515 $\pm$ 131.686  $\chi^2$ /NDF:23.7/18

Right Out: 290.799 $\pm$ 283.545  $\chi^2$ /NDF: 15.6/17

Left In: 111.233 $\pm$ 131.765  $\chi^2$ /NDF:27.0/17

Left: -197.827 $\pm$ 93.144  $\chi^2$ /NDF: 61.7/36

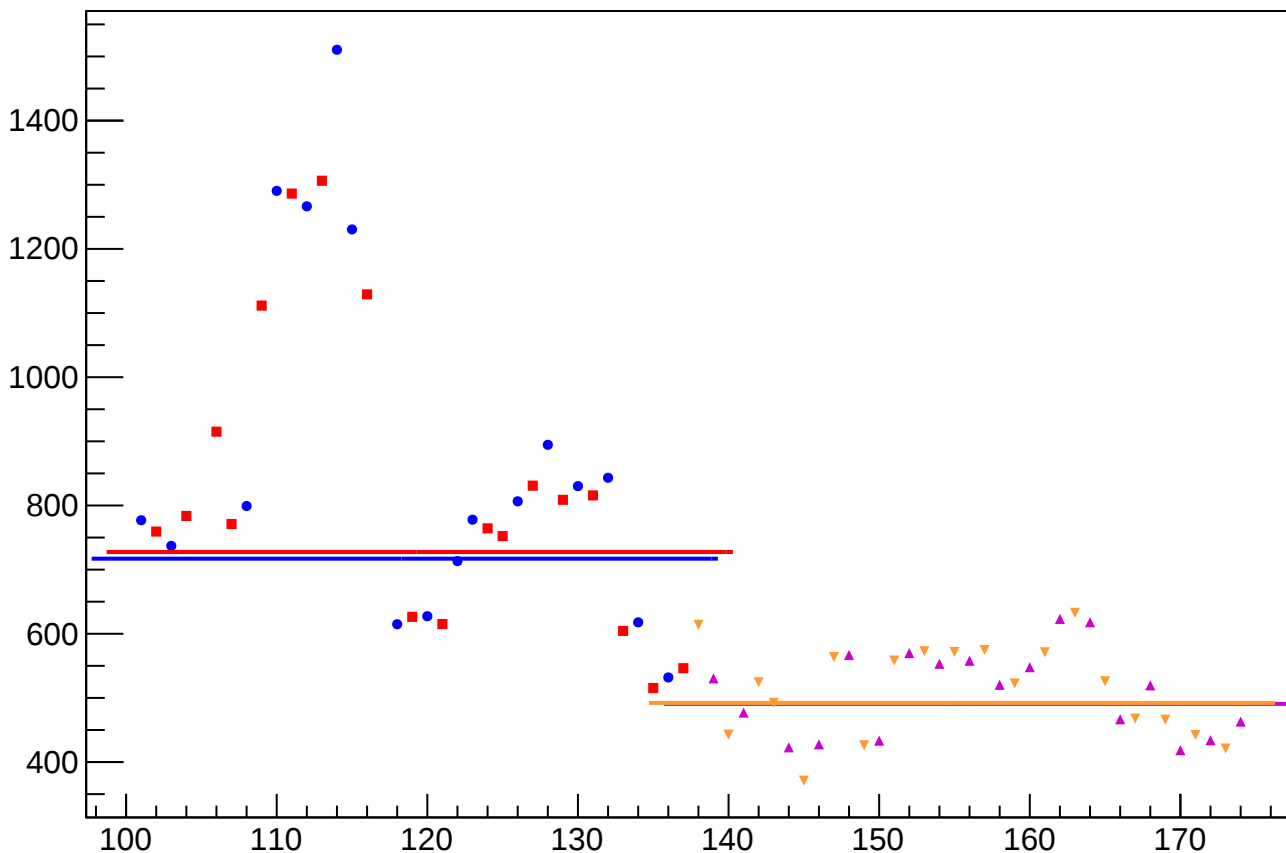
Right: 232.430 $\pm$ 201.245  $\chi^2$ /NDF: 33.8/34

In: 122.100 $\pm$ 119.650  $\chi^2$ /NDF:45.2/34

Out: -365.054 $\pm$ 119.434  $\chi^2$ /NDF:45.8/36

All: -121.918 $\pm$ 84.529  $\chi^2$ /NDF: 99.3/71

asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 717.083 $\pm$ 0.202  $\chi^2$ /NDF: 782449.4/16

Left Out: 492.220 $\pm$ 0.093  $\chi^2$ /NDF: 612815.7/18

Right Out: 727.490 $\pm$ 0.200  $\chi^2$ /NDF: 881036.5/17

Left In: 490.702 $\pm$ 0.093  $\chi^2$ /NDF: 451161.9/17

Left: 491.462 $\pm$ 0.066  $\chi^2$ /NDF: 1064110.3/36

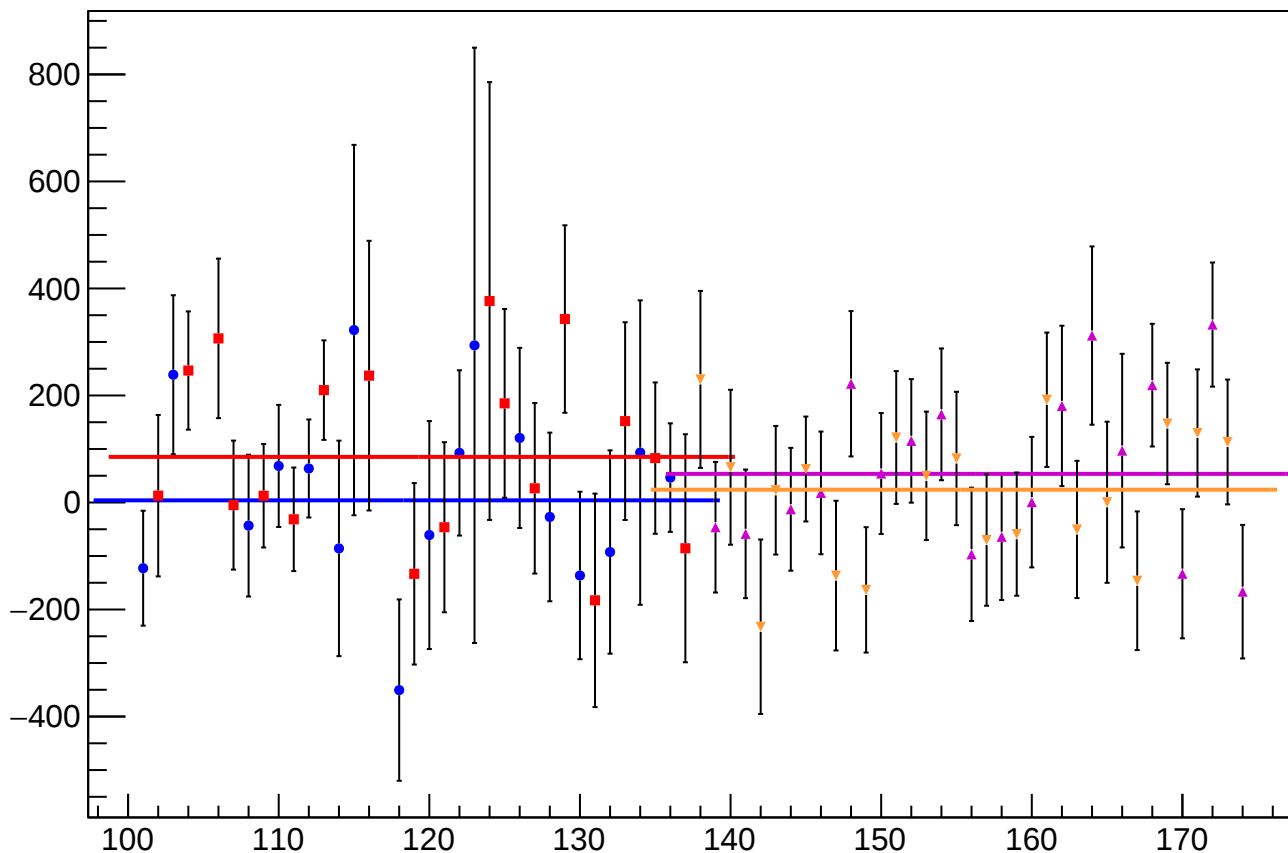
Right: 722.325 $\pm$ 0.142  $\chi^2$ /NDF: 1664822.9/34

In: 530.415 $\pm$ 0.085  $\chi^2$ /NDF: 2269233.7/34

Out: 533.962 $\pm$ 0.084  $\chi^2$ /NDF: 2626498.2/36

All: 532.192 $\pm$ 0.060  $\chi^2$ /NDF: 4896612.1/71

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:  $23.936 \pm 28.753$   $\chi^2/\text{NDF}$ : 16.6/18

Right Out:  $85.205 \pm 33.413$   $\chi^2/\text{NDF}$ : 17.4/17

Left In:  $53.501 \pm 29.366$   $\chi^2/\text{NDF}$ : 23.8/17

Left:  $38.407 \pm 20.545$   $\chi^2/\text{NDF}$ : 40.9/36

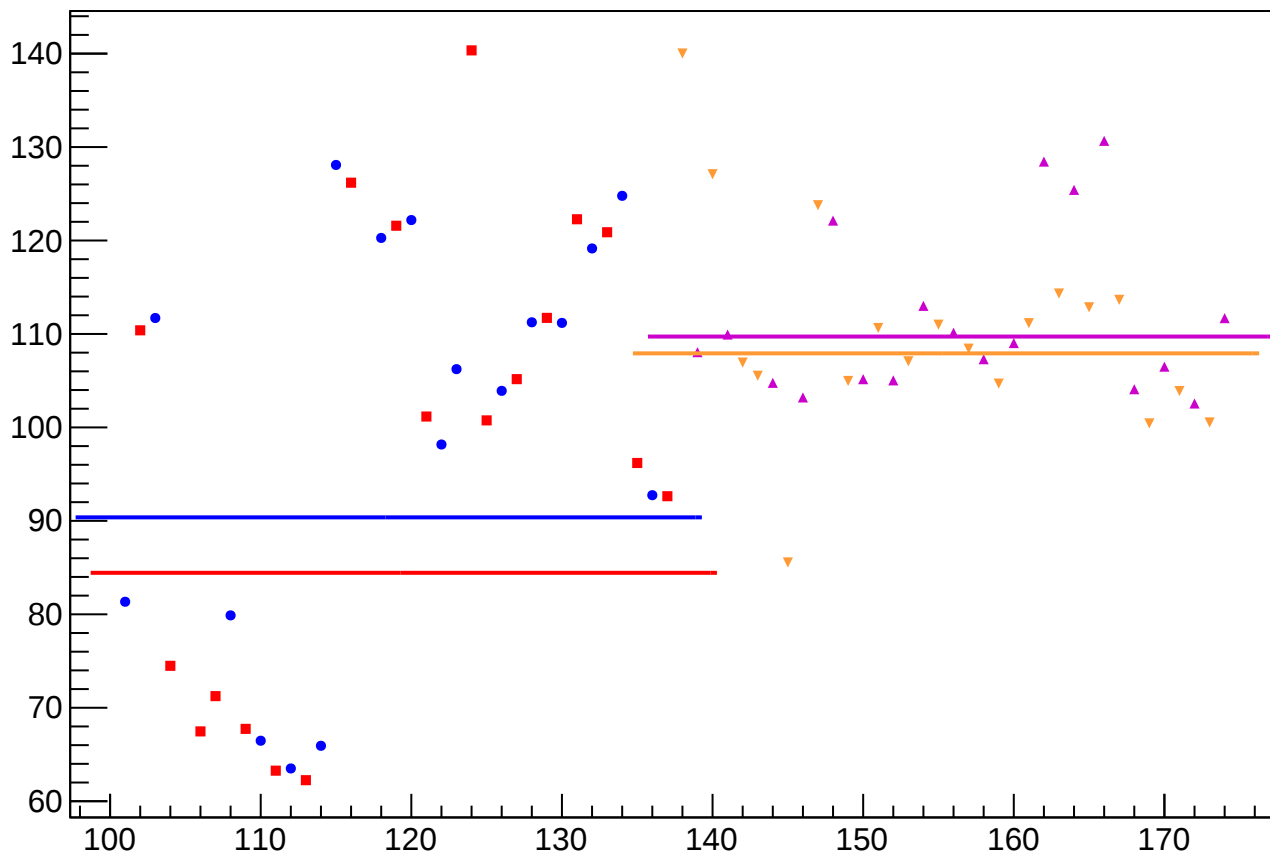
Right:  $47.574 \pm 24.474$   $\chi^2/\text{NDF}$ : 32.8/34

In:  $33.695 \pm 22.743$   $\chi^2/\text{NDF}$ : 37.7/34

Out:  $50.004 \pm 21.794$   $\chi^2/\text{NDF}$ : 35.9/36

All:  $42.196 \pm 15.736$   $\chi^2/\text{NDF}$ : 73.8/71

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 90.375 $\pm$ 0.025  $\chi^2$ /NDF: 654139.7/16

Left Out: 107.924 $\pm$ 0.020  $\chi^2$ /NDF: 277666.4/18

Right Out: 84.442 $\pm$ 0.024  $\chi^2$ /NDF: 870835.6/17

Left In: 109.723 $\pm$ 0.021  $\chi^2$ /NDF: 126328.7/17

Left: 108.805 $\pm$ 0.015  $\chi^2$ /NDF: 407829.1/36

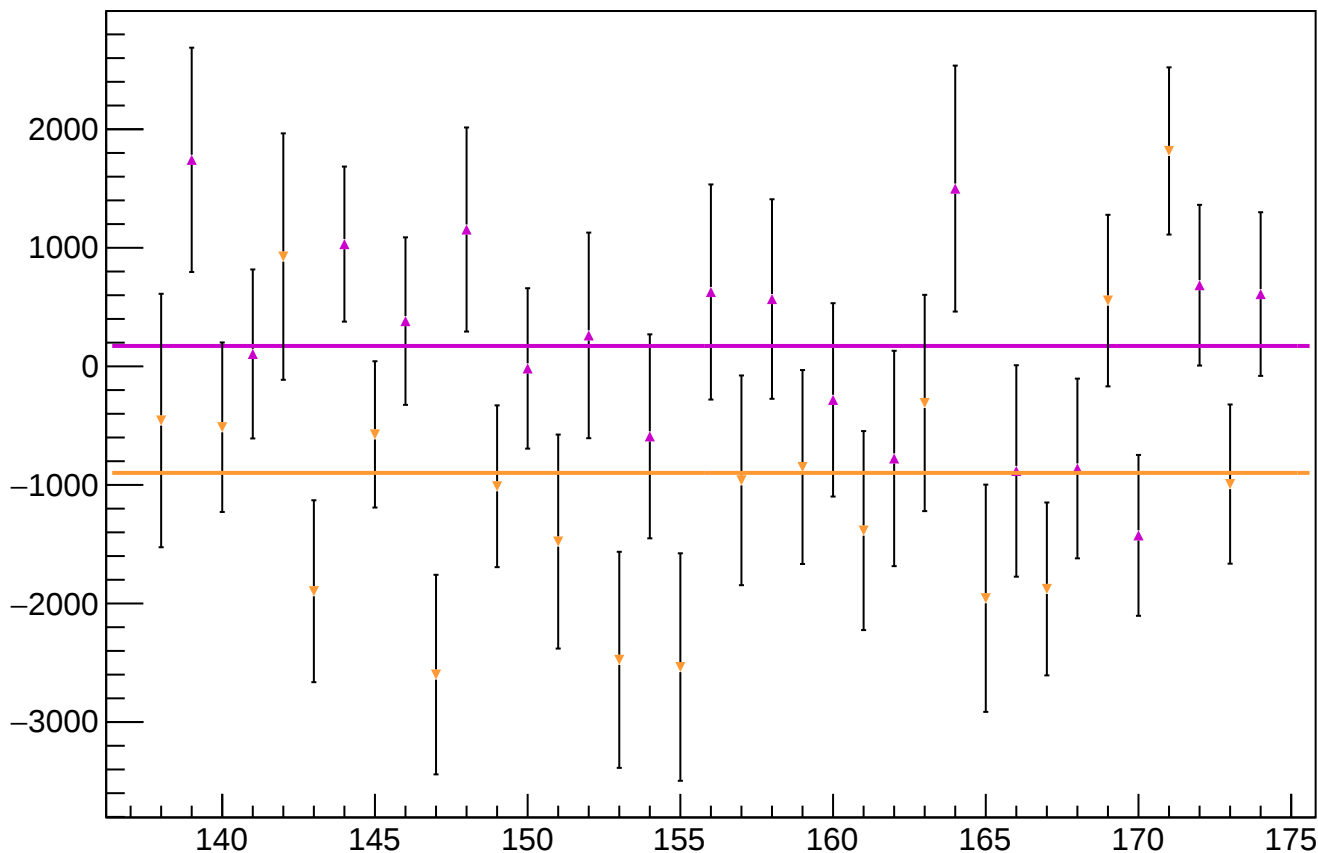
Right: 87.192 $\pm$ 0.017  $\chi^2$ /NDF: 1554203.3/34

In: 101.980 $\pm$ 0.016  $\chi^2$ /NDF: 1127932.4/34

Out: 97.933 $\pm$ 0.015  $\chi^2$ /NDF: 1716029.7/36

All: 99.871 $\pm$ 0.011  $\chi^2$ /NDF: 2876973.2/71

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: -898.474+/-183.598  $\chi^2/\text{NDF}$ :38.6/18

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

Left In: 172.144+/-184.537  $\chi^2/\text{NDF}$ :20.0/17

Left: -365.894+/-130.154  $\chi^2/\text{NDF}$ : 75.6/36

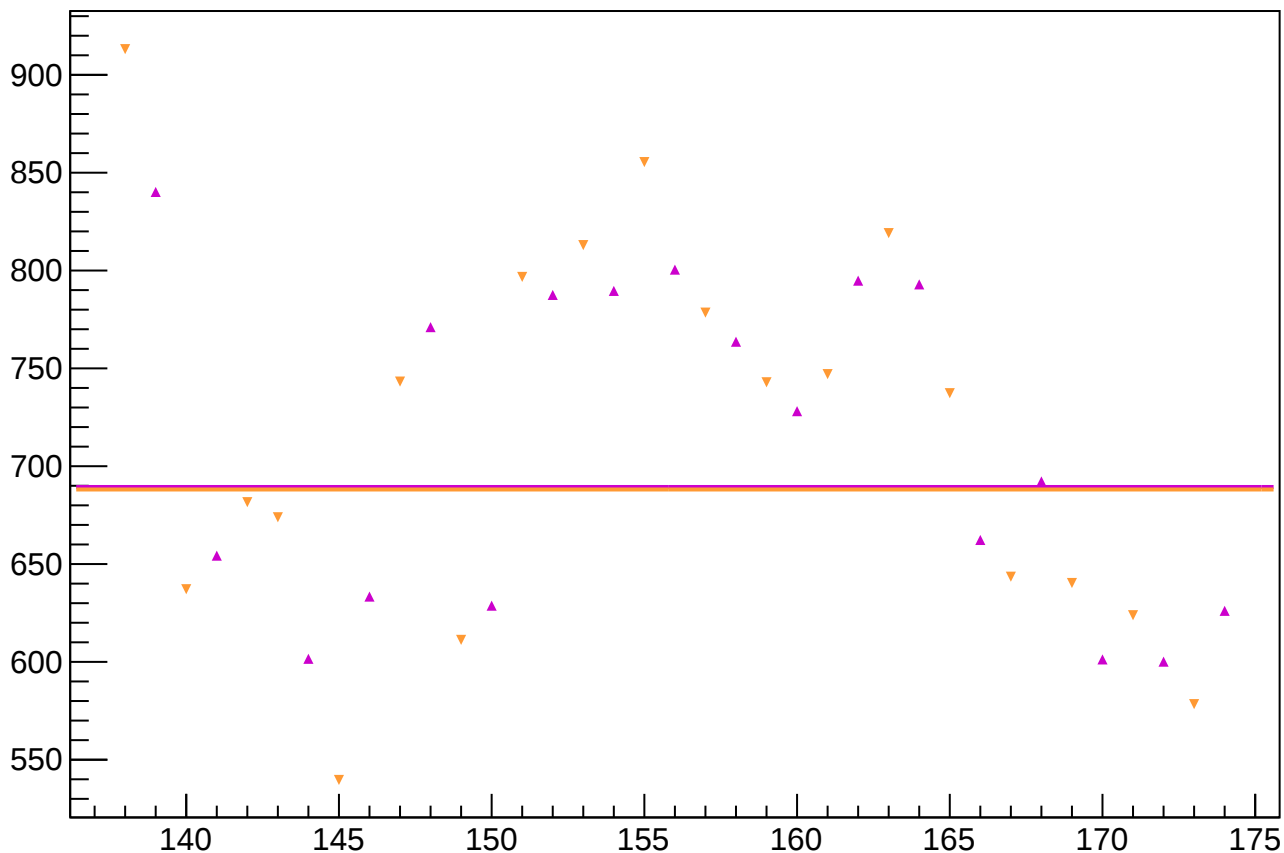
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 172.144+/-184.537  $\chi^2/\text{NDF}$ :20.0/17

Out: -898.474+/-183.598  $\chi^2/\text{NDF}$ :38.6/18

All: -365.894+/-130.154  $\chi^2/\text{NDF}$ : 75.6/36

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: 688.103+/-0.130  $\chi^2/\text{NDF}$ :549181.6/18

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

Left In: 689.385+/-0.130  $\chi^2/\text{NDF}$ :375232.0/17

Left: 688.741+/-0.092  $\chi^2/\text{NDF}$ : 924462.1/36

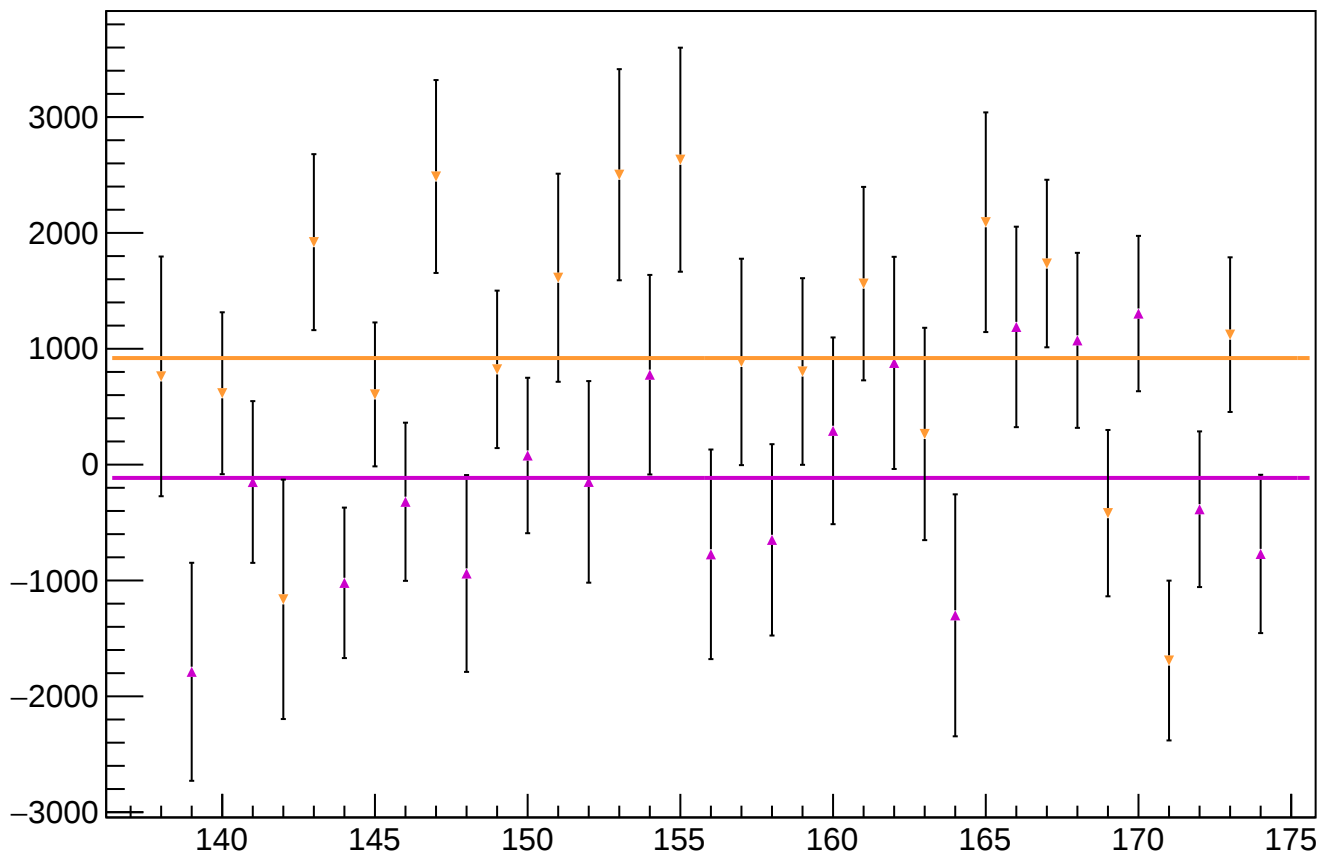
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 689.385+/-0.130  $\chi^2/\text{NDF}$ :375232.0/17

Out: 688.103+/-0.130  $\chi^2/\text{NDF}$ :549181.6/18

All: 688.741+/-0.092  $\chi^2/\text{NDF}$ : 924462.1/36

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 919.877+/-182.249  $\chi^2/\text{NDF}$ :38.4/18

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

Left In: -114.787+/-182.622  $\chi^2/\text{NDF}$ :21.3/17

Left: 403.602+/-129.001  $\chi^2/\text{NDF}$ : 75.8/36

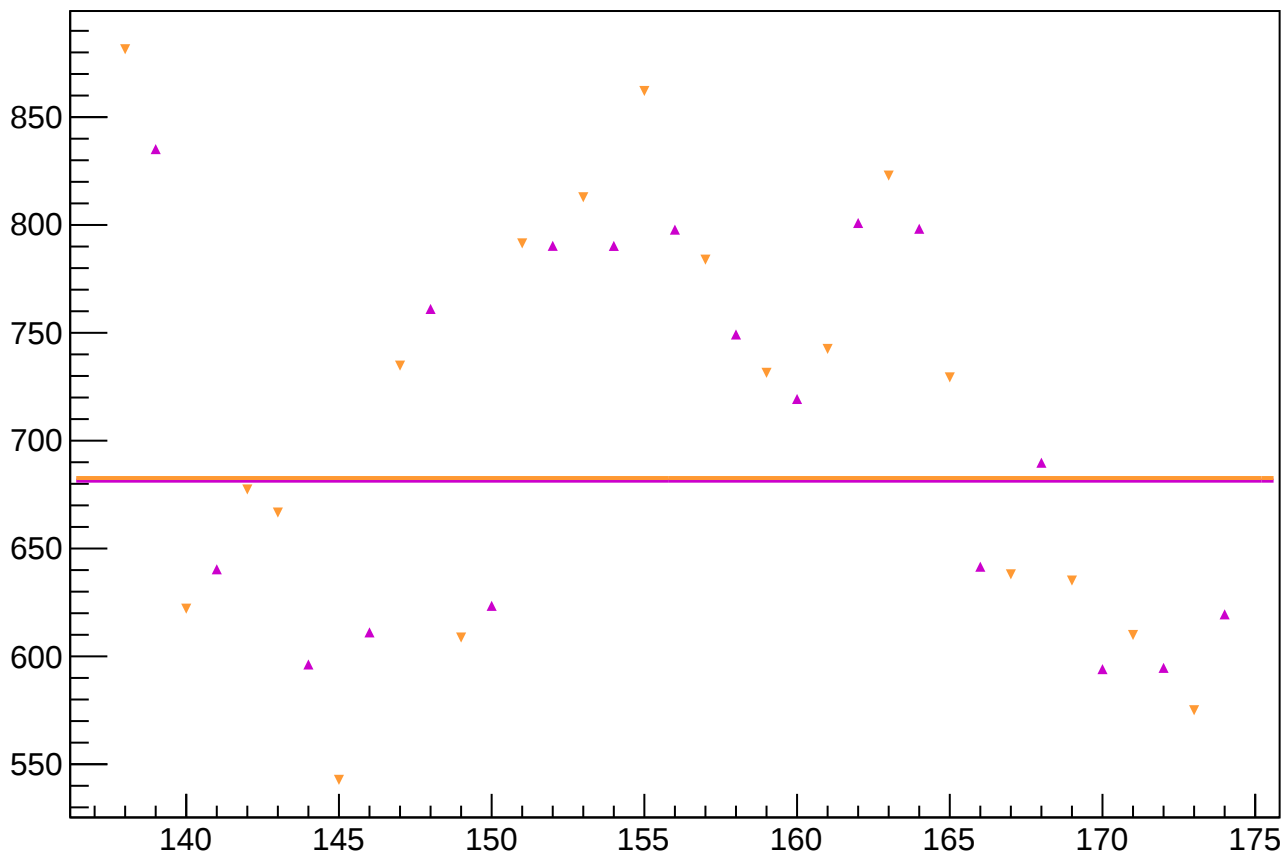
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -114.787+/-182.622  $\chi^2/\text{NDF}$ :21.3/17

Out: 919.877+/-182.249  $\chi^2/\text{NDF}$ :38.4/18

All: 403.602+/-129.001  $\chi^2/\text{NDF}$ : 75.8/36

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 682.681+/-0.129  $\chi^2/\text{NDF}$ : 547642.4/18

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

Left In: 681.454+/-0.129  $\chi^2/\text{NDF}$ : 410105.8/17

Left: 682.069+/-0.091  $\chi^2/\text{NDF}$ : 957793.4/36

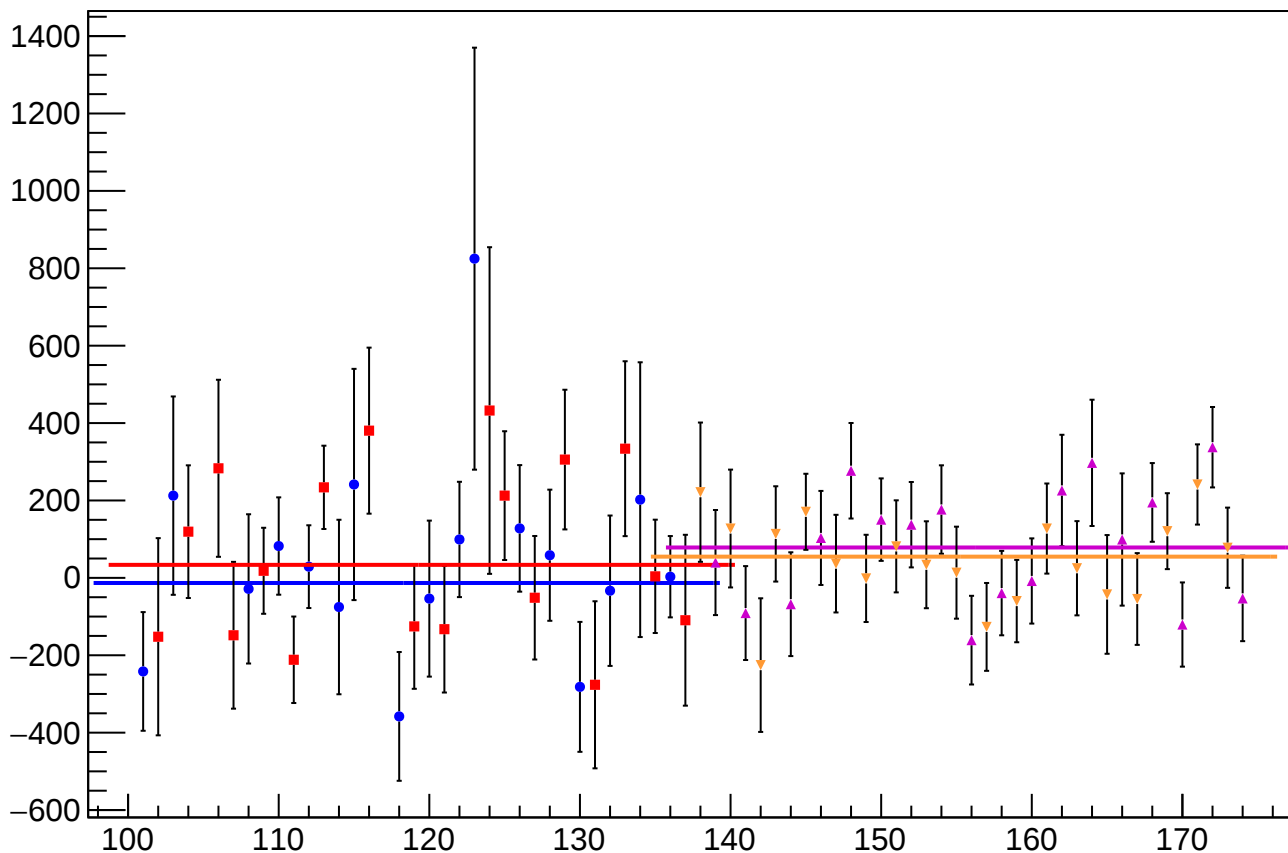
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 681.454+/-0.129  $\chi^2/\text{NDF}$ : 410105.8/17

Out: 682.681+/-0.129  $\chi^2/\text{NDF}$ : 547642.4/18

All: 682.069+/-0.091  $\chi^2/\text{NDF}$ : 957793.4/36

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: -13.215 $\pm$ 40.554  $\chi^2$ /NDF: 15.7/16

Left Out: 54.838 $\pm$ 27.216  $\chi^2$ /NDF:15.0/18

Right Out: 33.637 $\pm$ 38.891  $\chi^2$ /NDF: 24.7/17

Left In: 78.513 $\pm$ 27.990  $\chi^2$ /NDF:28.6/17

Left: 66.344 $\pm$ 19.513  $\chi^2$ /NDF: 44.0/36

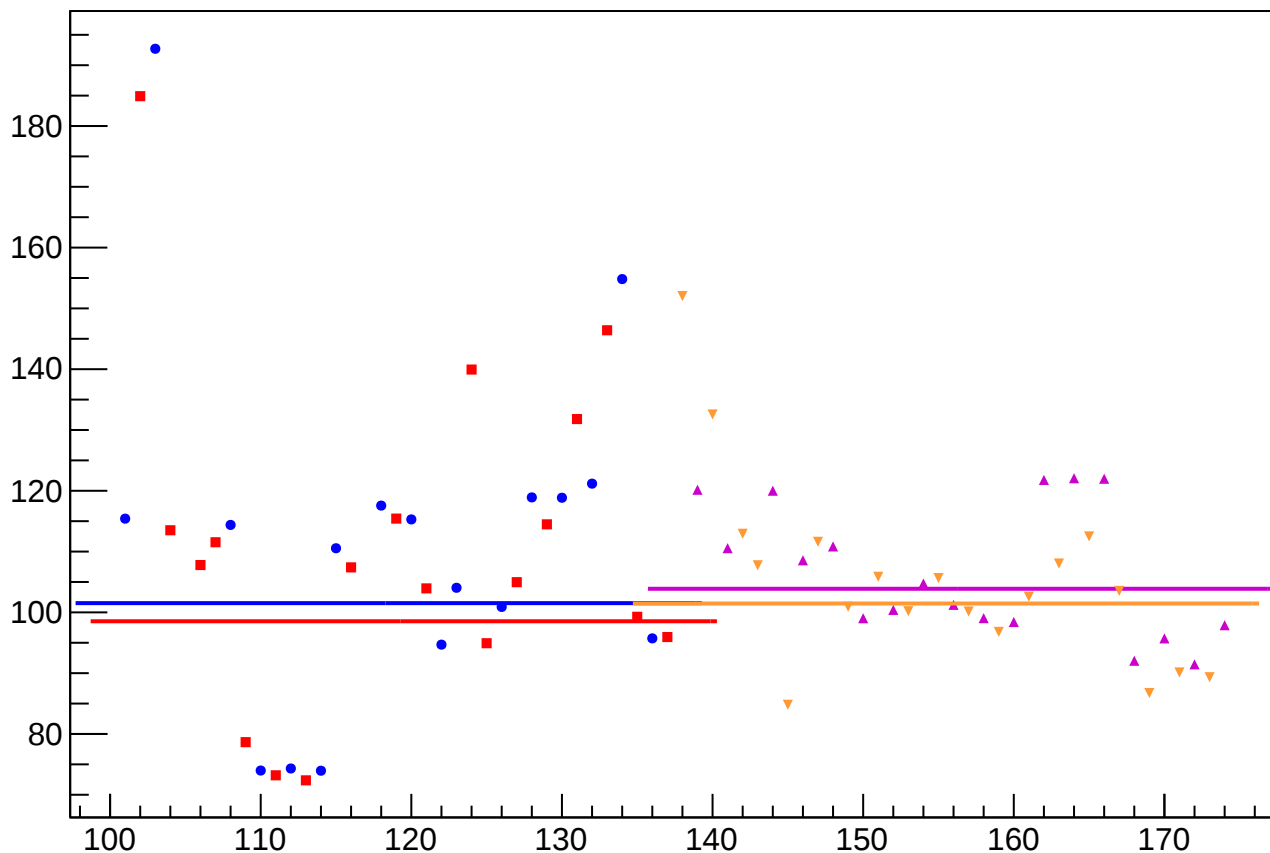
Right: 11.191 $\pm$ 28.070  $\chi^2$ /NDF: 41.1/34

In: 48.915 $\pm$ 23.036  $\chi^2$ /NDF:47.8/34

Out: 47.868 $\pm$ 22.299  $\chi^2$ /NDF:39.9/36

All: 48.375 $\pm$ 16.022  $\chi^2$ /NDF: 87.7/71

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: 101.456 $\pm$ 0.019  $\chi^2$ /NDF: 448780.8/18

Right Out: 98.537 $\pm$ 0.028  $\chi^2$ /NDF: 746979.4/17

Left In: 103.881 $\pm$ 0.020  $\chi^2$ /NDF: 240347.6/17

Left: 102.634 $\pm$ 0.014  $\chi^2$ /NDF: 696845.6/36

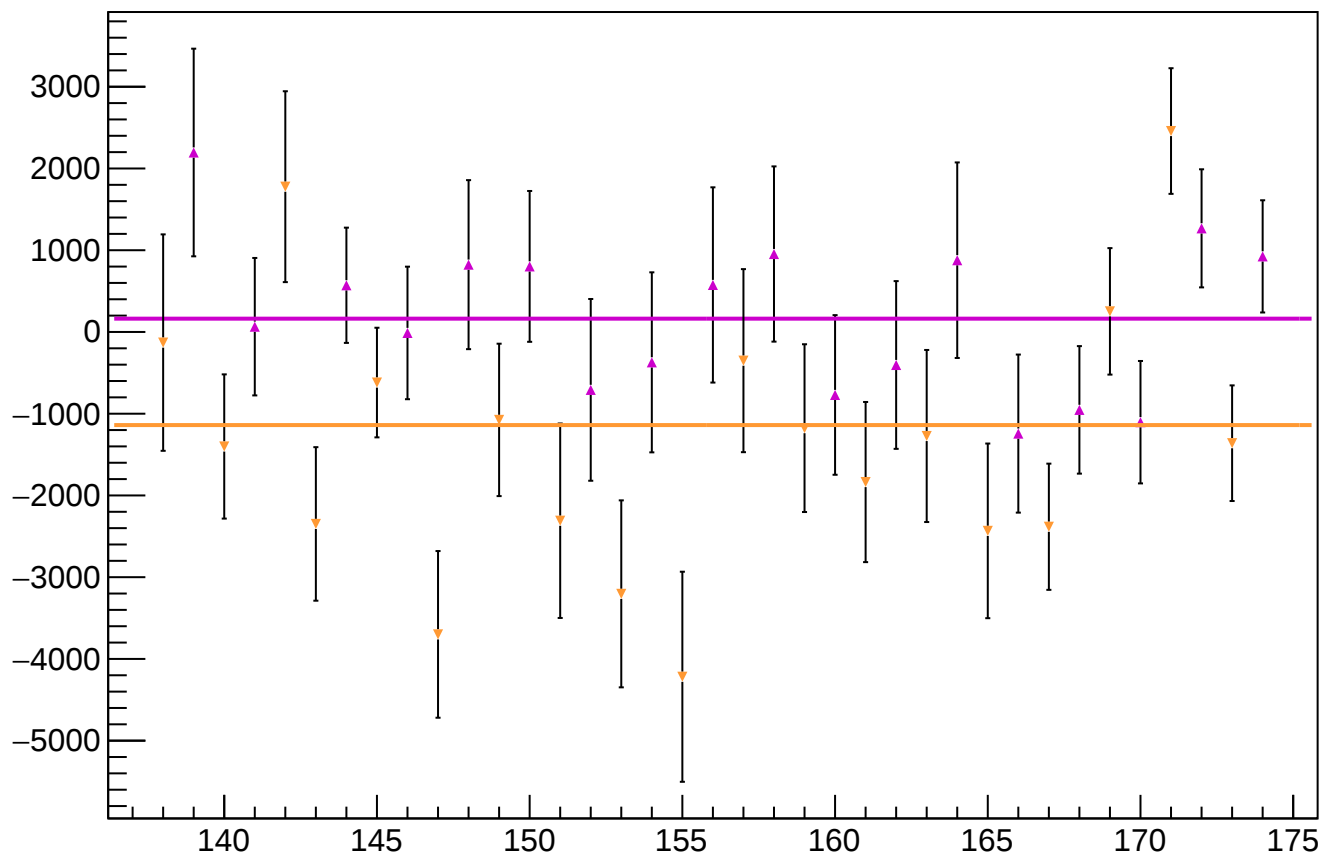
Right: 99.965 $\pm$ 0.020  $\chi^2$ /NDF: 1434328.3/34

In: 103.119 $\pm$ 0.016  $\chi^2$ /NDF: 926656.3/34

Out: 100.496 $\pm$ 0.016  $\chi^2$ /NDF: 1203324.7/36

All: 101.765 $\pm$ 0.011  $\chi^2$ /NDF: 2143365.0/71

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: -1139.129+/-214.454  $\chi^2/\text{NDF}$ :55.8/18

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

Left In: 162.768+/-212.642  $\chi^2/\text{NDF}$ :17.5/17

Left: -482.657+/-150.997  $\chi^2/\text{NDF}$ : 91.9/36

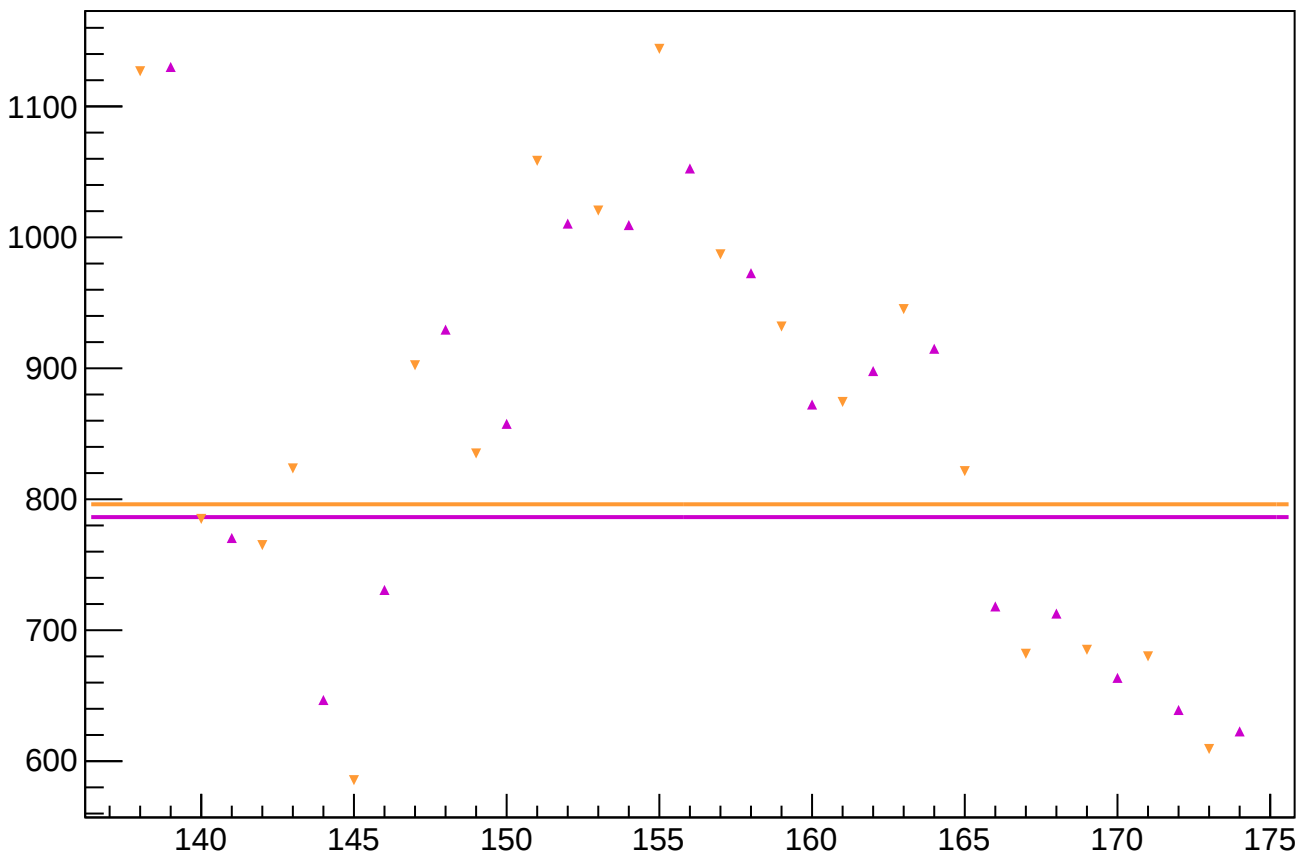
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 162.768+/-212.642  $\chi^2/\text{NDF}$ :17.5/17

Out: -1139.129+/-214.454  $\chi^2/\text{NDF}$ :55.8/18

All: -482.657+/-150.997  $\chi^2/\text{NDF}$ : 91.9/36

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: 796.167+/-0.152  $\chi^2/\text{NDF}$ :1088693.2/18

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

Left In: 786.380+/-0.150  $\chi^2/\text{NDF}$ :949078.7/17

Left: 791.232+/-0.107  $\chi^2/\text{NDF}$ : 2039872.1/36

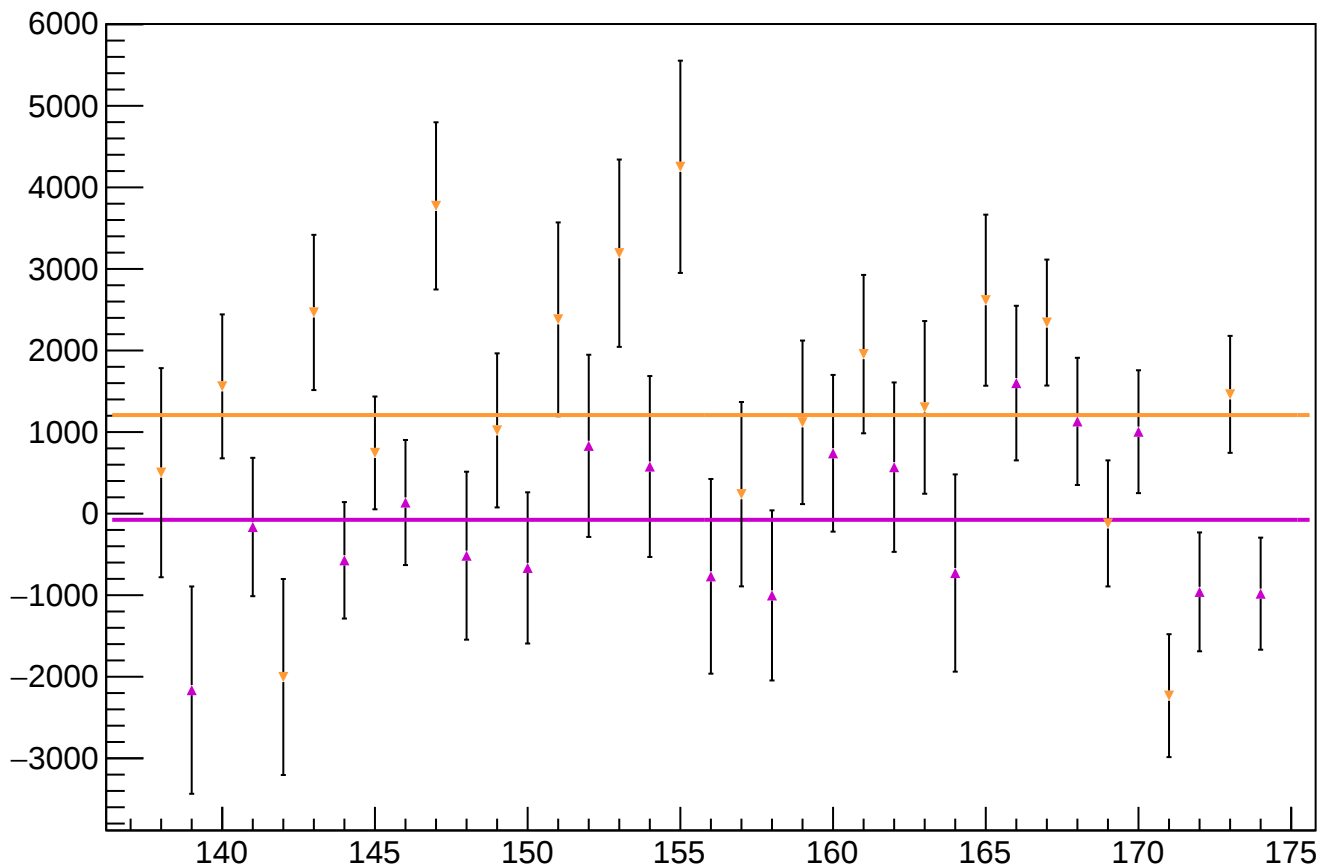
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 786.380+/-0.150  $\chi^2/\text{NDF}$ :949078.7/17

Out: 796.167+/-0.152  $\chi^2/\text{NDF}$ :1088693.2/18

All: 791.232+/-0.107  $\chi^2/\text{NDF}$ : 2039872.1/36

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1208.530+/-215.131  $\chi^2/\text{NDF}$ :54.8/18

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

Left In: -75.953+/-212.096  $\chi^2/\text{NDF}$ :18.2/17

Left: 557.164+/-151.036  $\chi^2/\text{NDF}$ : 91.0/36

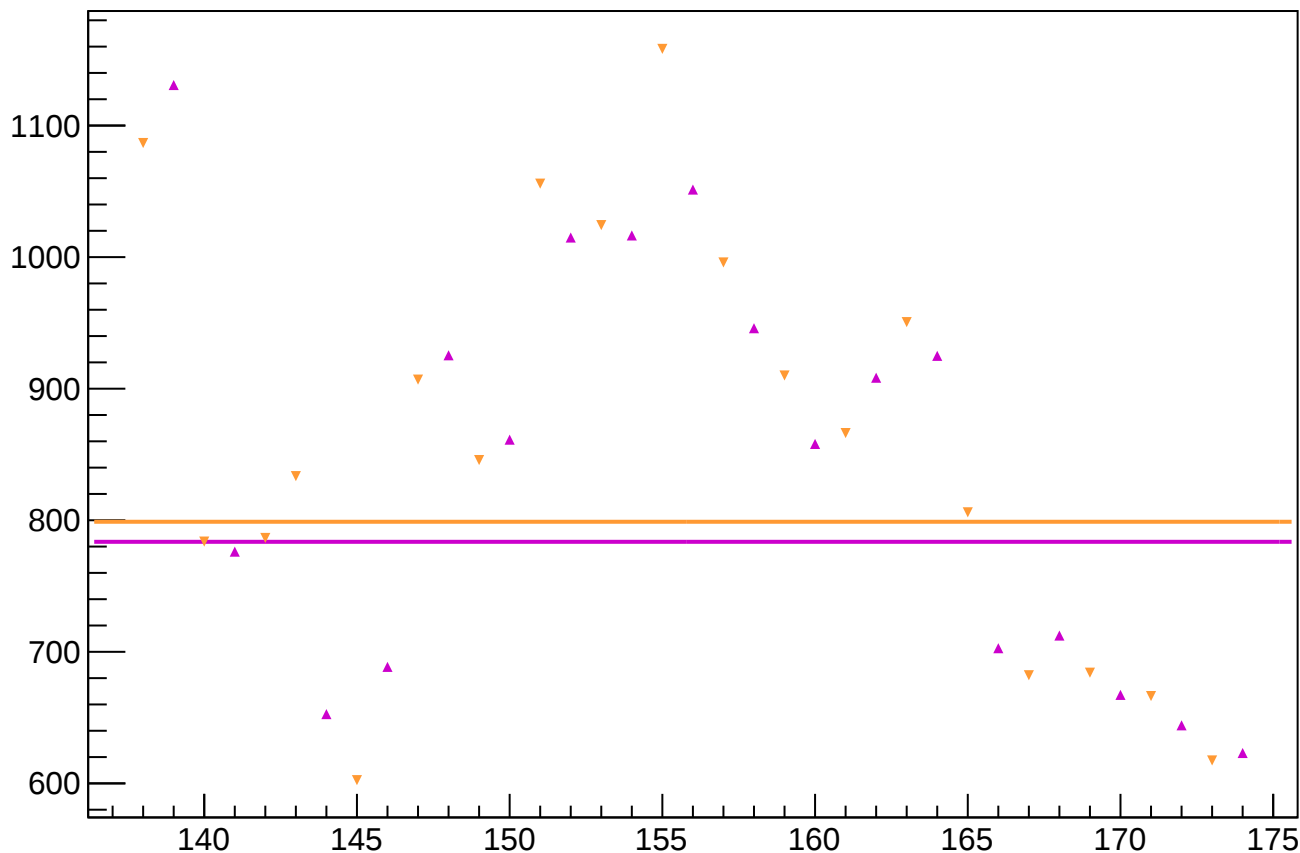
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -75.953+/-212.096  $\chi^2/\text{NDF}$ :18.2/17

Out: 1208.530+/-215.131  $\chi^2/\text{NDF}$ :54.8/18

All: 557.164+/-151.036  $\chi^2/\text{NDF}$ : 91.0/36

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 798.862+/-0.152  $\chi^2/\text{NDF}$ :1031776.4/18

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

Left In: 783.618+/-0.150  $\chi^2/\text{NDF}$ :951896.4/17

Left: 791.131+/-0.107  $\chi^2/\text{NDF}$ : 1988764.9/36

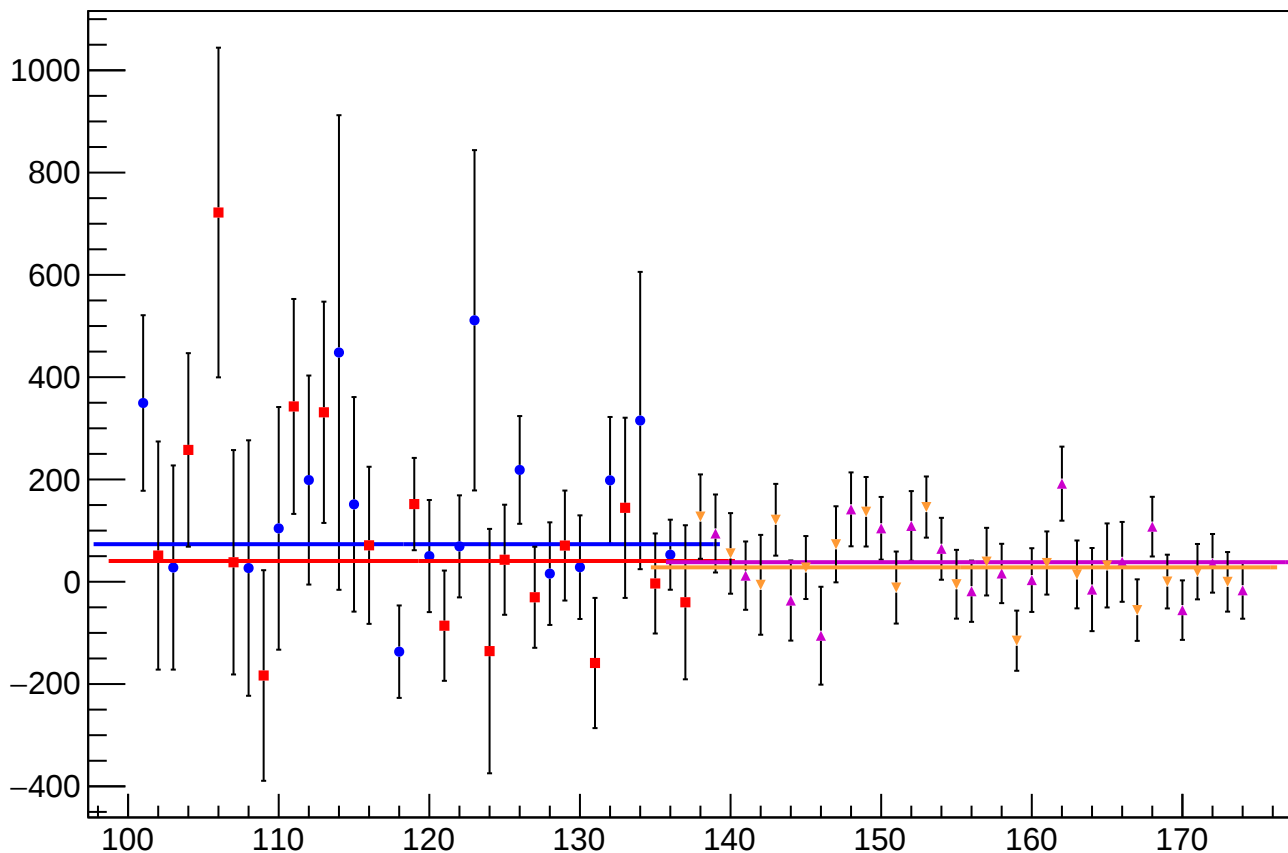
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 783.618+/-0.150  $\chi^2/\text{NDF}$ :951896.4/17

Out: 798.862+/-0.152  $\chi^2/\text{NDF}$ :1031776.4/18

All: 791.131+/-0.107  $\chi^2/\text{NDF}$ : 1988764.9/36

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: 28.149 $\pm$ 15.060  $\chi^2$ /NDF:19.3/18

Right Out: 40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

Left In: 38.247 $\pm$ 15.485  $\chi^2$ /NDF:19.6/17

Left: 33.058 $\pm$ 10.796  $\chi^2$ /NDF: 39.2/36

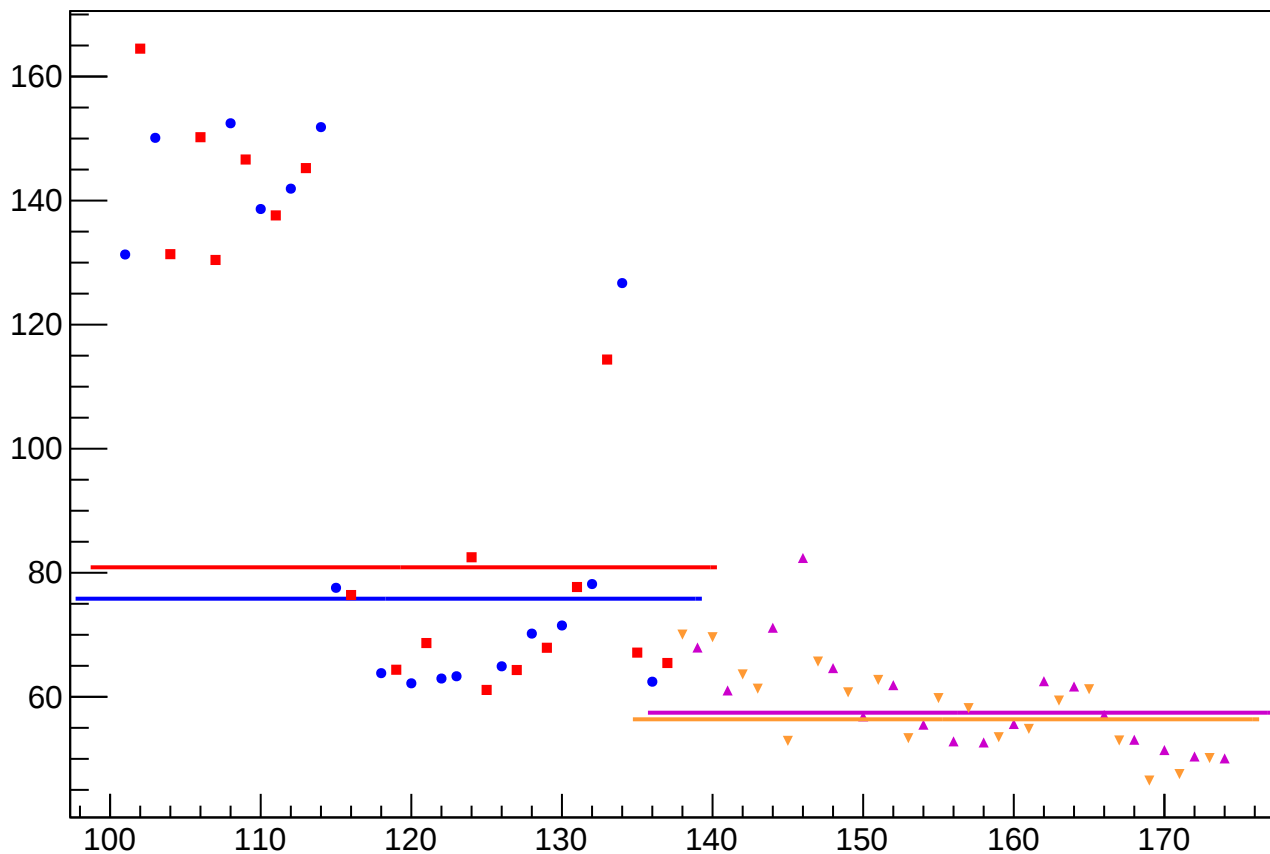
Right: 57.887 $\pm$ 22.535  $\chi^2$ /NDF: 34.0/34

In: 45.254 $\pm$ 13.858  $\chi^2$ /NDF:35.9/34

Out: 30.322 $\pm$ 13.682  $\chi^2$ /NDF:37.7/36

All: 37.693 $\pm$ 9.736  $\chi^2$ /NDF: 74.2/71

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 75.820+/-0.022  $\chi^2/\text{NDF}$ : 1349961.8/16

Left Out: 56.376+/-0.011  $\chi^2/\text{NDF}$ : 376485.2/18

Right Out: 80.881+/-0.023  $\chi^2/\text{NDF}$ : 1526044.5/17

Left In: 57.443+/-0.011  $\chi^2/\text{NDF}$ : 411847.2/17

Left: 56.895+/-0.008  $\chi^2/\text{NDF}$ : 793210.7/36

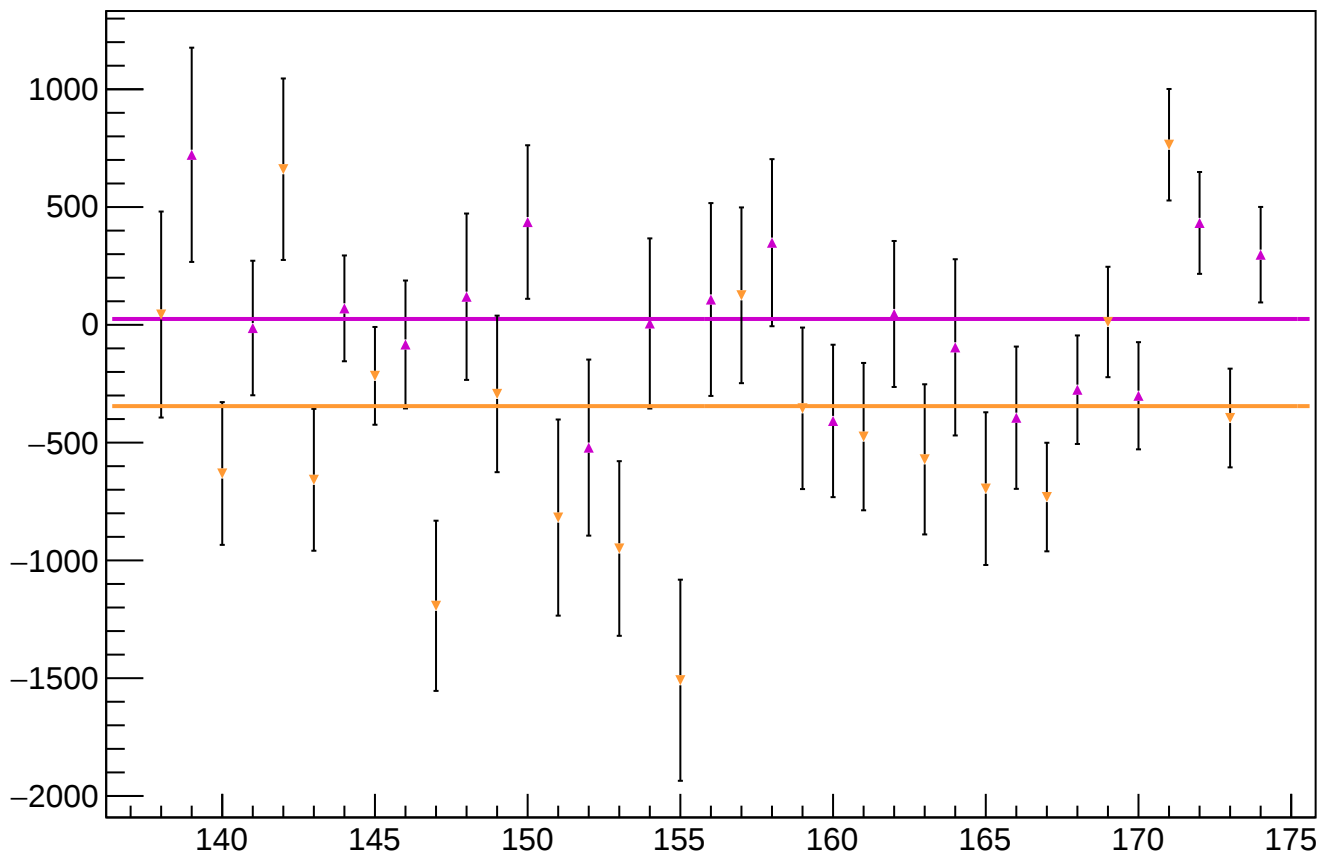
Right: 78.217+/-0.016  $\chi^2/\text{NDF}$ : 2901160.0/34

In: 61.101+/-0.010  $\chi^2/\text{NDF}$ : 2322549.6/34

Out: 60.654+/-0.010  $\chi^2/\text{NDF}$ : 2827095.0/36

All: 60.875+/-0.007  $\chi^2/\text{NDF}$ : 5150696.4/71

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: -345.050+/-68.150  $\chi^2/\text{NDF}$ :57.5/18

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

Left In: 24.882+/-67.627  $\chi^2/\text{NDF}$ :20.2/17

Left: -158.660+/-48.004  $\chi^2/\text{NDF}$ : 92.5/36

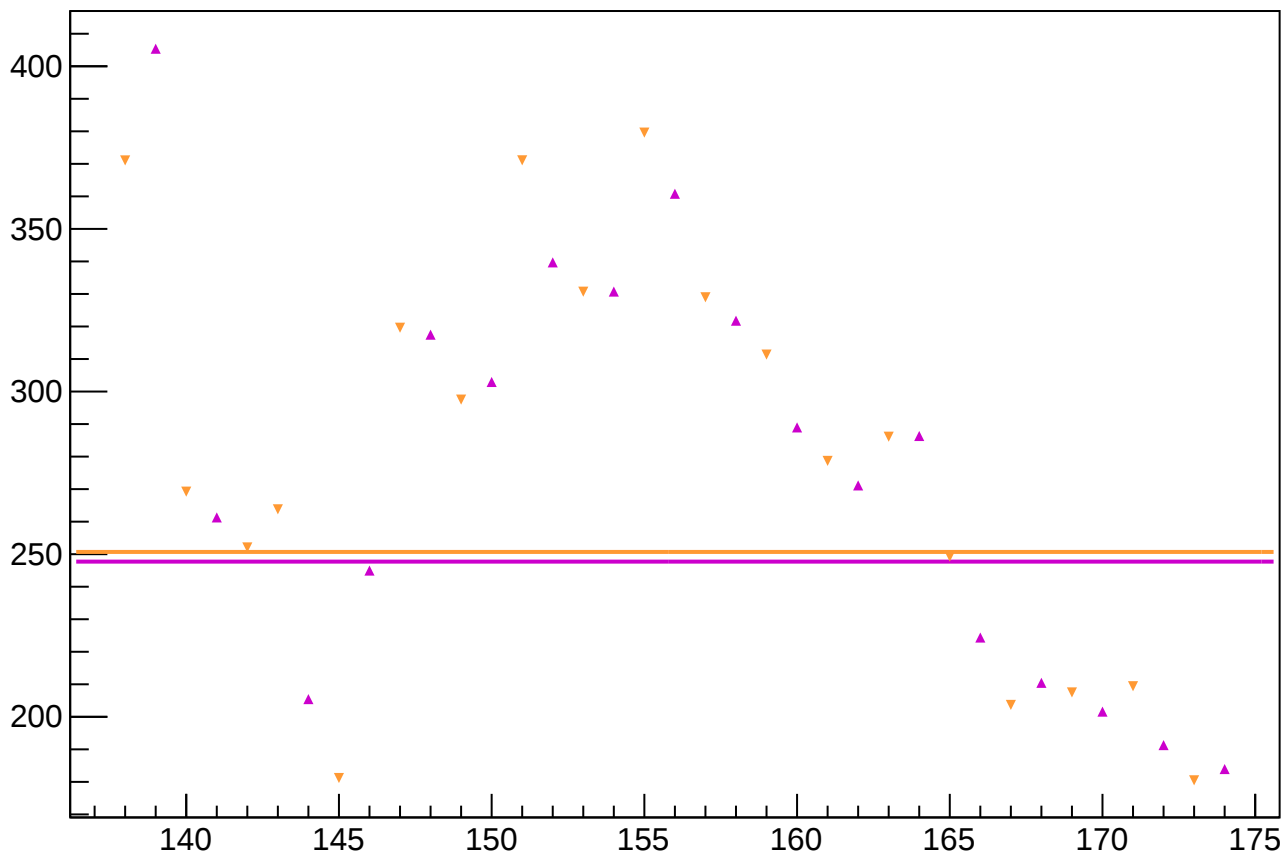
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.882+/-67.627  $\chi^2/\text{NDF}$ :20.2/17

Out: -345.050+/-68.150  $\chi^2/\text{NDF}$ :57.5/18

All: -158.660+/-48.004  $\chi^2/\text{NDF}$ : 92.5/36

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: 250.693+/-0.048  $\chi^2/\text{NDF}$ :1570658.4/18

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

Left In: 247.714+/-0.048  $\chi^2/\text{NDF}$ :1464128.3/17

Left: 249.192+/-0.034  $\chi^2/\text{NDF}$ : 3036711.7/36

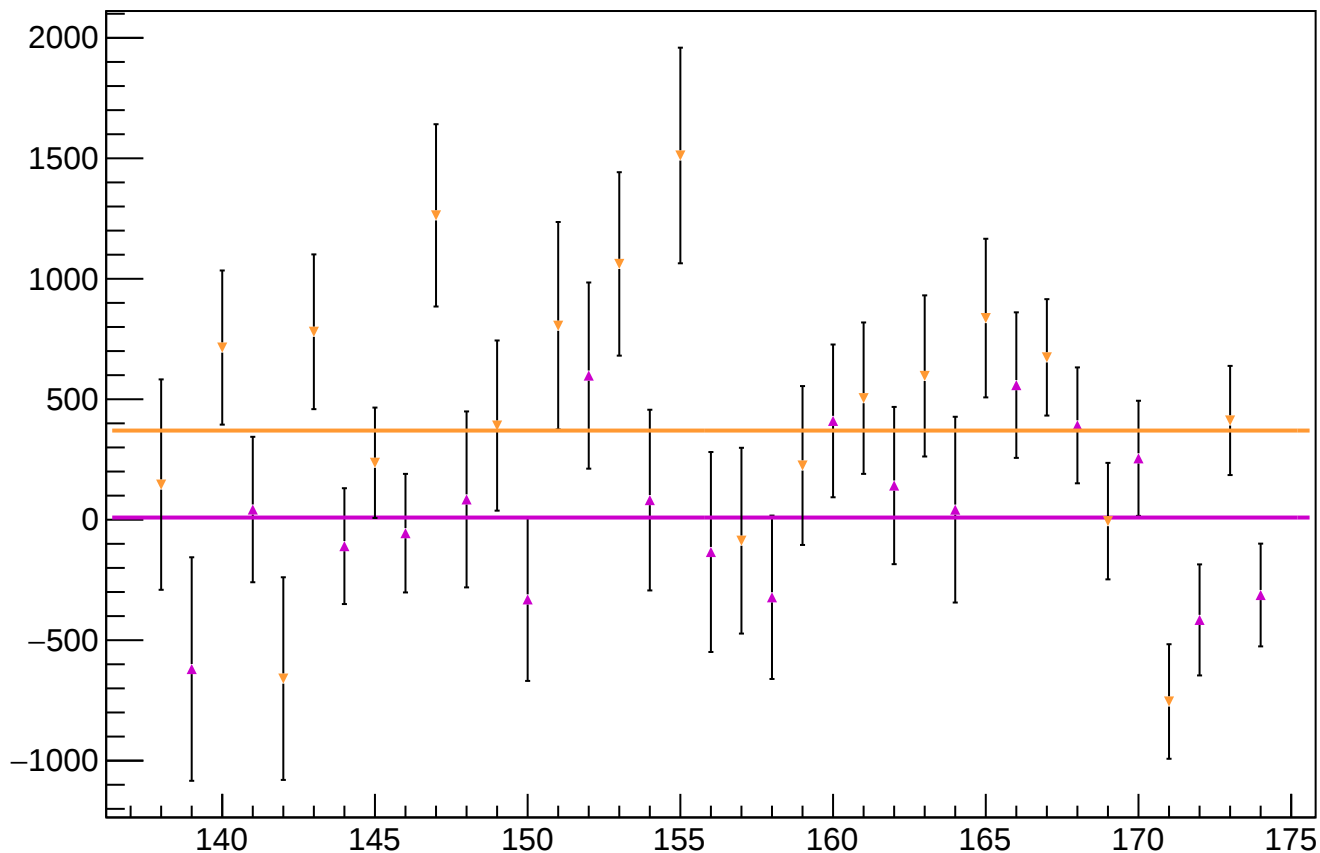
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 247.714+/-0.048  $\chi^2/\text{NDF}$ :1464128.3/17

Out: 250.693+/-0.048  $\chi^2/\text{NDF}$ :1570658.4/18

All: 249.192+/-0.034  $\chi^2/\text{NDF}$ : 3036711.7/36

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 370.109 $\pm$ 71.181  $\chi^2$ /NDF:56.5/18

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

Left In: 9.074 $\pm$ 69.565  $\chi^2$ /NDF:21.0/17

Left: 185.448 $\pm$ 49.751  $\chi^2$ /NDF: 90.6/36

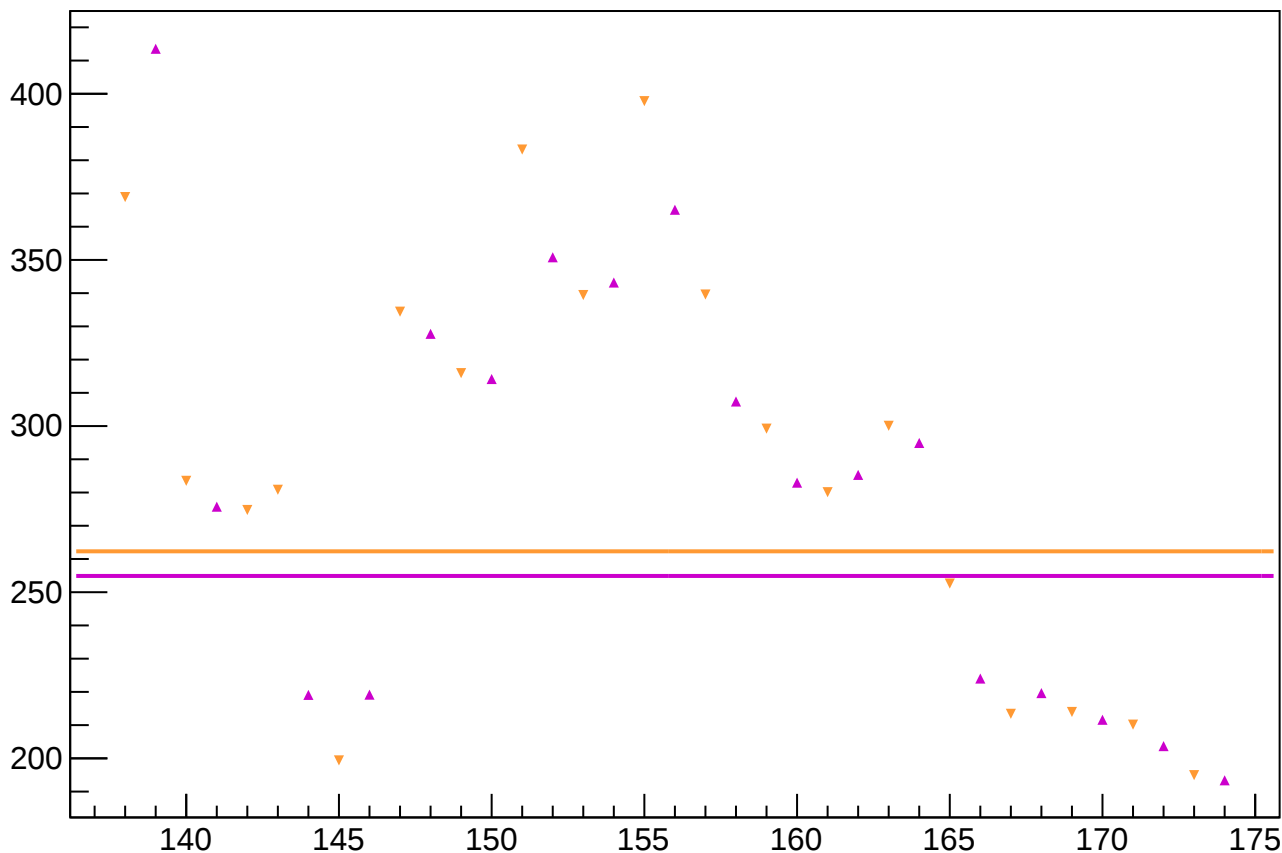
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 9.074 $\pm$ 69.565  $\chi^2$ /NDF:21.0/17

Out: 370.109 $\pm$ 71.181  $\chi^2$ /NDF:56.5/18

All: 185.448 $\pm$ 49.751  $\chi^2$ /NDF: 90.6/36

asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 262.305+/-0.050  $\chi^2/\text{NDF}$ :1403419.0/18

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

Left In: 254.895+/-0.049  $\chi^2/\text{NDF}$ :1343363.2/17

Left: 258.515+/-0.035  $\chi^2/\text{NDF}$ : 2757868.6/36

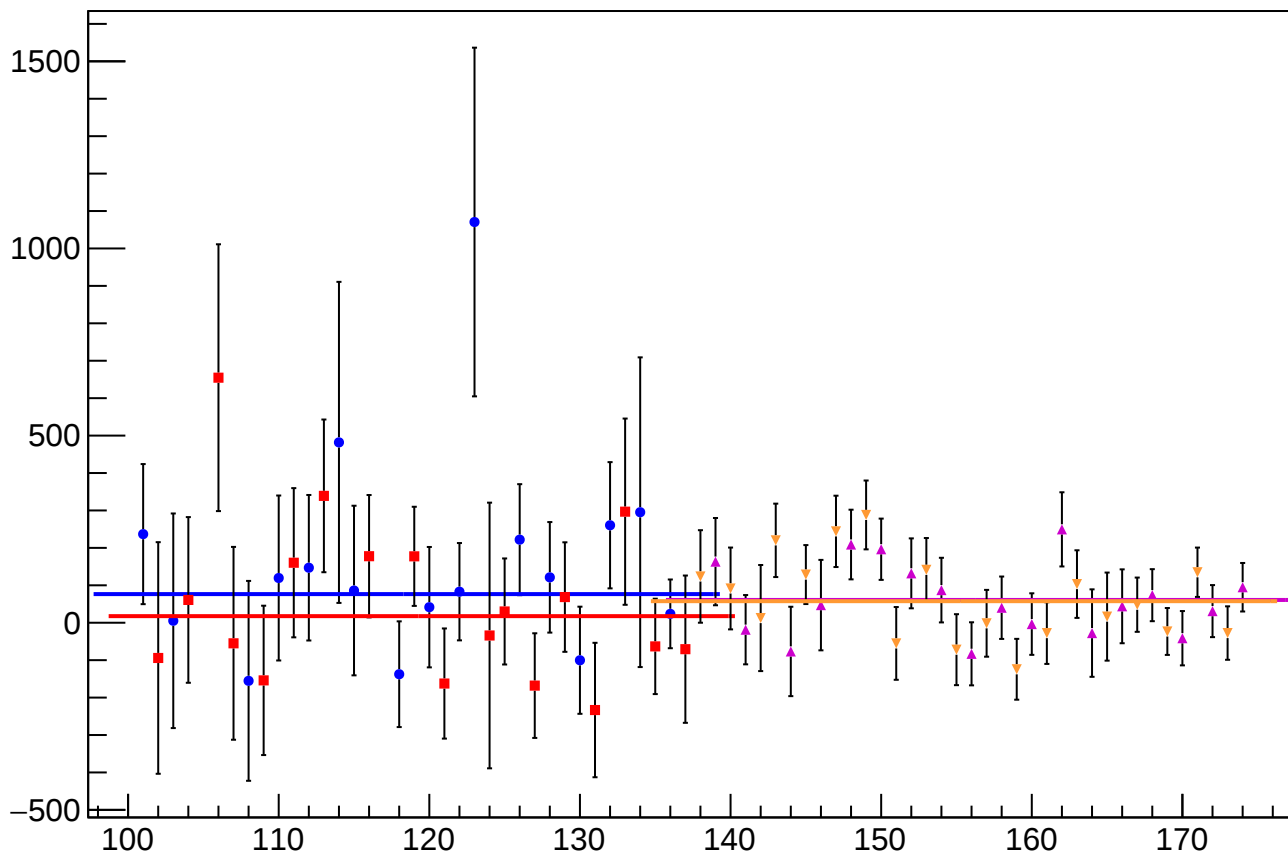
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 254.895+/-0.049  $\chi^2/\text{NDF}$ :1343363.2/17

Out: 262.305+/-0.050  $\chi^2/\text{NDF}$ :1403419.0/18

All: 258.515+/-0.035  $\chi^2/\text{NDF}$ : 2757868.6/36

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 76.503 $\pm$ 41.558  $\chi^2$ /NDF: 13.9/16

Left Out: 57.626 $\pm$ 19.848  $\chi^2$ /NDF:29.7/18

Right Out: 17.605 $\pm$ 42.297  $\chi^2$ /NDF: 16.8/17

Left In: 60.863 $\pm$ 20.436  $\chi^2$ /NDF:19.1/17

Left: 59.197 $\pm$ 14.238  $\chi^2$ /NDF: 48.8/36

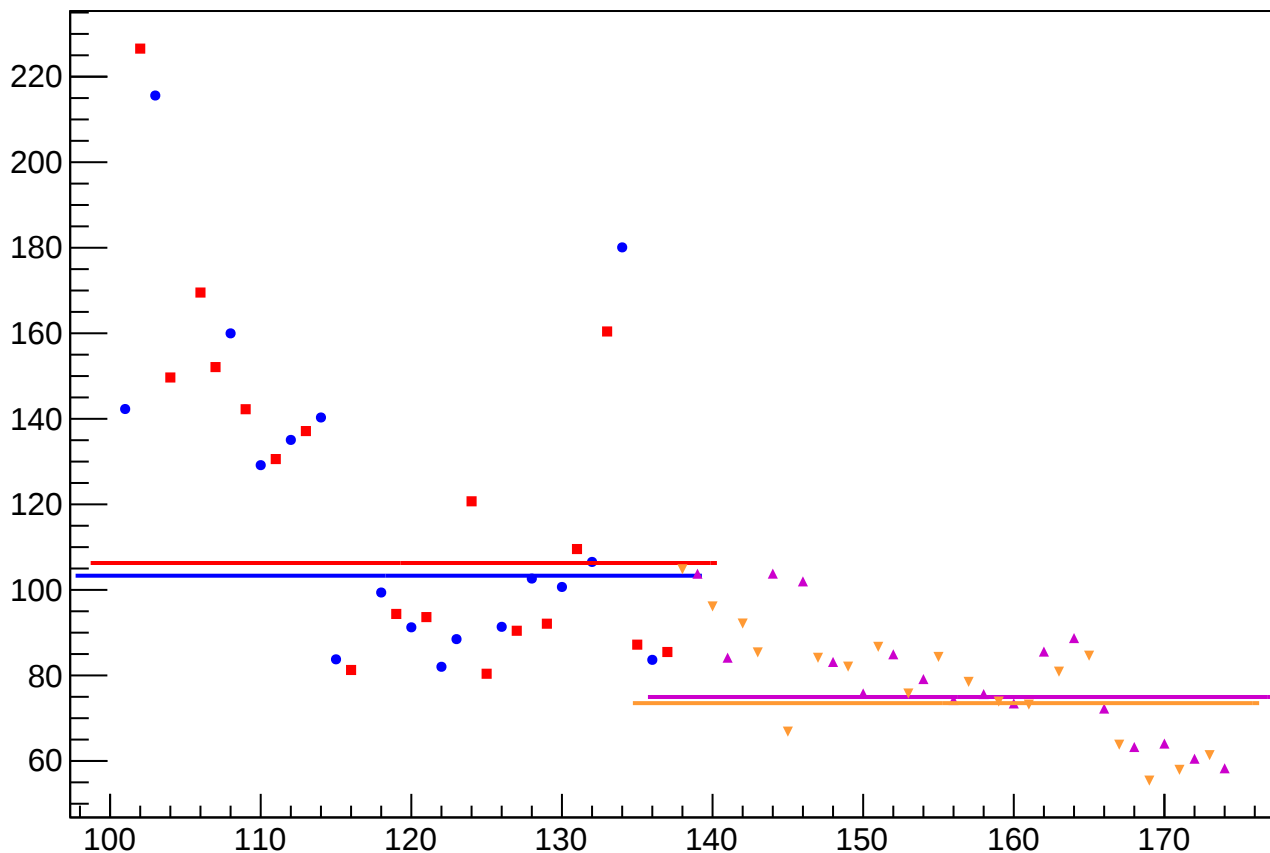
Right: 47.573 $\pm$ 29.644  $\chi^2$ /NDF: 31.7/34

In: 63.909 $\pm$ 18.338  $\chi^2$ /NDF:33.1/34

Out: 50.403 $\pm$ 17.968  $\chi^2$ /NDF:47.3/36

All: 57.018 $\pm$ 12.834  $\chi^2$ /NDF: 80.6/71

dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 73.523 $\pm$ 0.014  $\chi^2$ /NDF: 808317.3/18

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

Left In: 74.959 $\pm$ 0.014  $\chi^2$ /NDF: 775325.2/17

Left: 74.220 $\pm$ 0.010  $\chi^2$ /NDF: 1588725.4/36

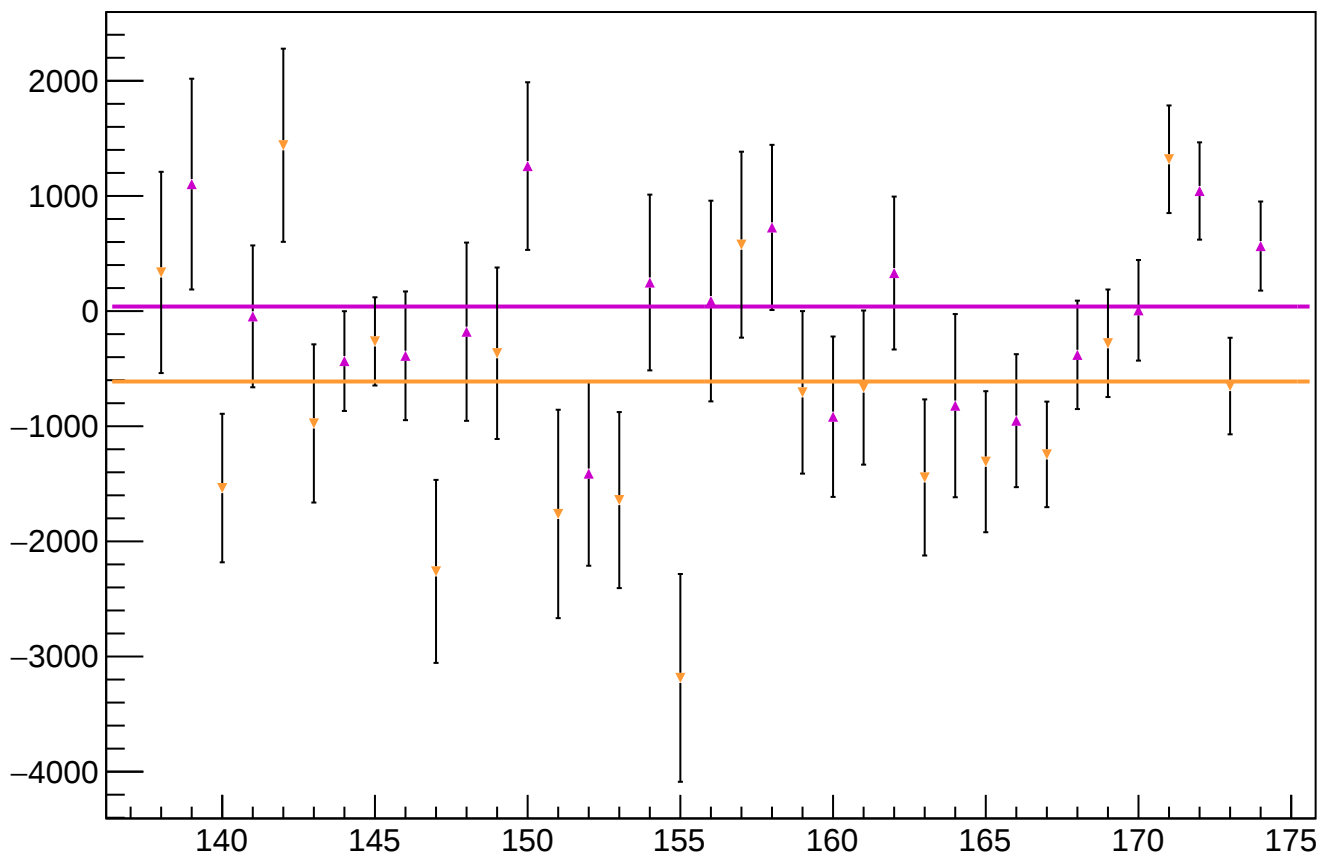
Right: 104.777 $\pm$ 0.021  $\chi^2$ /NDF: 1843531.0/34

In: 80.481 $\pm$ 0.013  $\chi^2$ /NDF: 2363110.6/34

Out: 79.436 $\pm$ 0.013  $\chi^2$ /NDF: 2792637.4/36

All: 79.948 $\pm$ 0.009  $\chi^2$ /NDF: 5159063.6/71

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: -611.462+/-138.888  $\chi^2/\text{NDF}$ : 50.8/18

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

Left In: 39.574+/-136.853  $\chi^2/\text{NDF}$ : 24.8/17

Left: -281.138+/-97.481  $\chi^2/\text{NDF}$ : 86.7/36

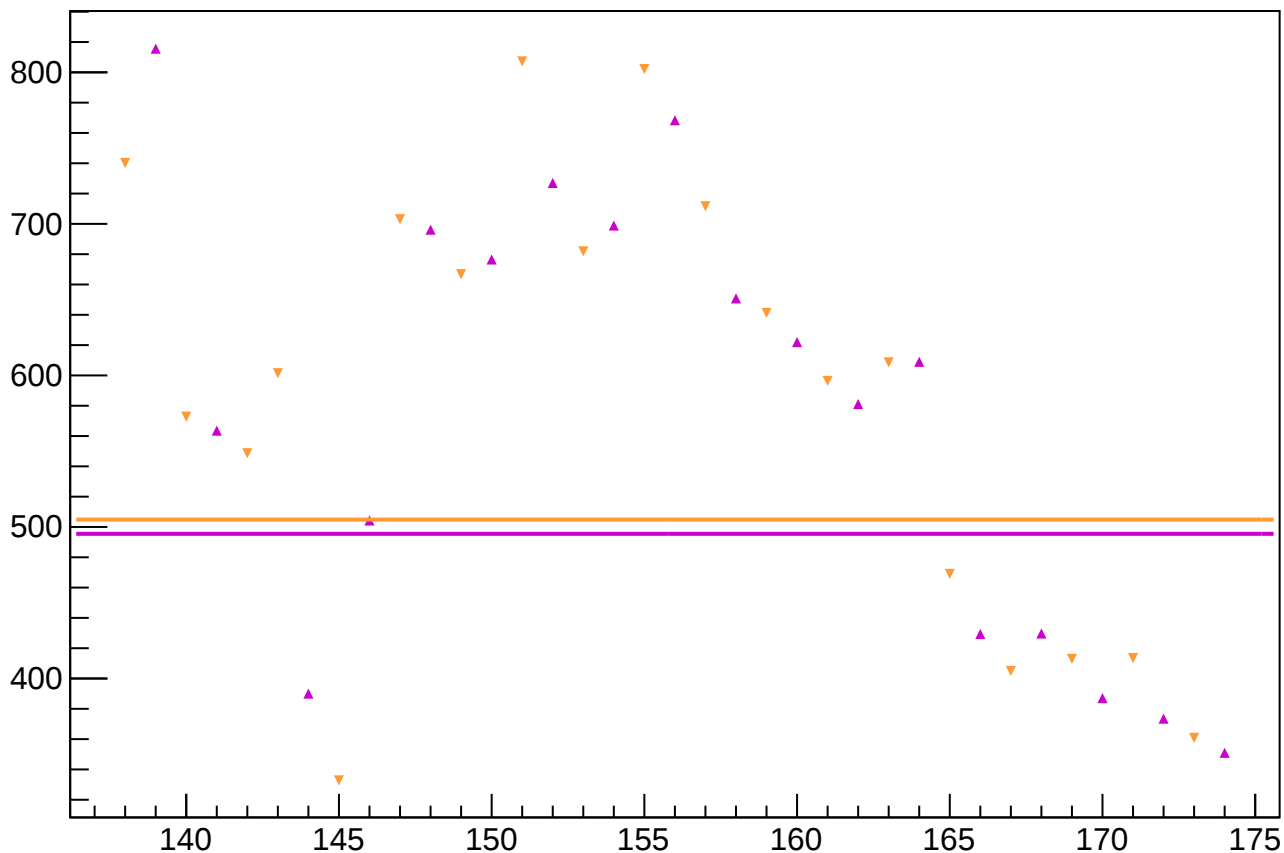
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 39.574+/-136.853  $\chi^2/\text{NDF}$ : 24.8/17

Out: -611.462+/-138.888  $\chi^2/\text{NDF}$ : 50.8/18

All: -281.138+/-97.481  $\chi^2/\text{NDF}$ : 86.7/36

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: 504.858+/-0.098  $\chi^2/\text{NDF}$ :2164085.6/18

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

Left In: 495.487+/-0.097  $\chi^2/\text{NDF}$ :2019686.6/17

Left: 500.103+/-0.069  $\chi^2/\text{NDF}$ : 4188392.3/36

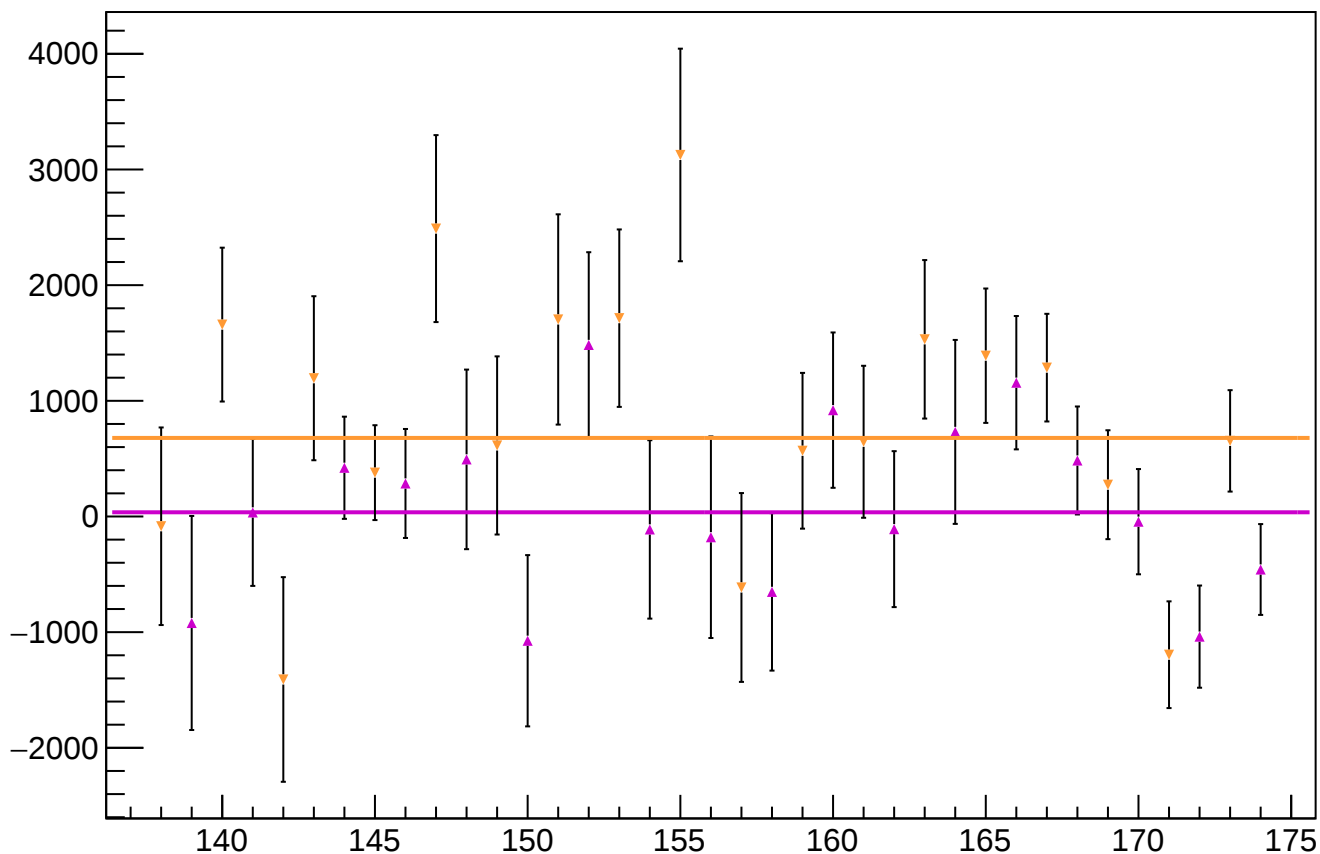
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 495.487+/-0.097  $\chi^2/\text{NDF}$ :2019686.6/17

Out: 504.858+/-0.098  $\chi^2/\text{NDF}$ :2164085.6/18

All: 500.103+/-0.069  $\chi^2/\text{NDF}$ : 4188392.3/36

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 679.245+/-140.991  $\chi^2/\text{NDF}$ :49.3/18

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

Left In: 36.327+/-136.697  $\chi^2/\text{NDF}$ :23.9/17

Left: 347.847+/-98.143  $\chi^2/\text{NDF}$ : 83.9/36

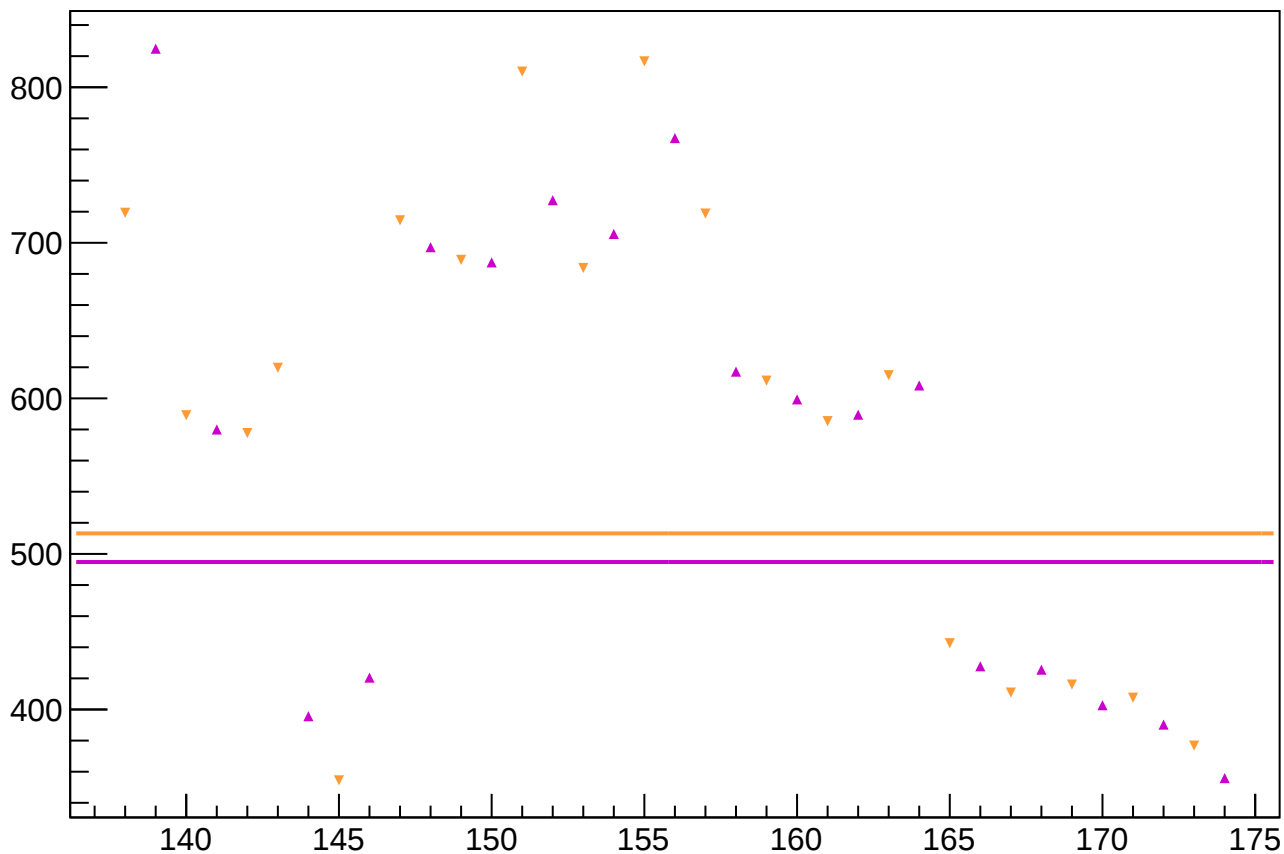
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 36.327+/-136.697  $\chi^2/\text{NDF}$ :23.9/17

Out: 679.245+/-140.991  $\chi^2/\text{NDF}$ :49.3/18

All: 347.847+/-98.143  $\chi^2/\text{NDF}$ : 83.9/36

# asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 513.206+/-0.100  $\chi^2/\text{NDF}$ :2004268.3/18

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

Left In: 494.793+/-0.097  $\chi^2/\text{NDF}$ :1934397.0/17

Left: 503.715+/-0.069  $\chi^2/\text{NDF}$ : 3956248.2/36

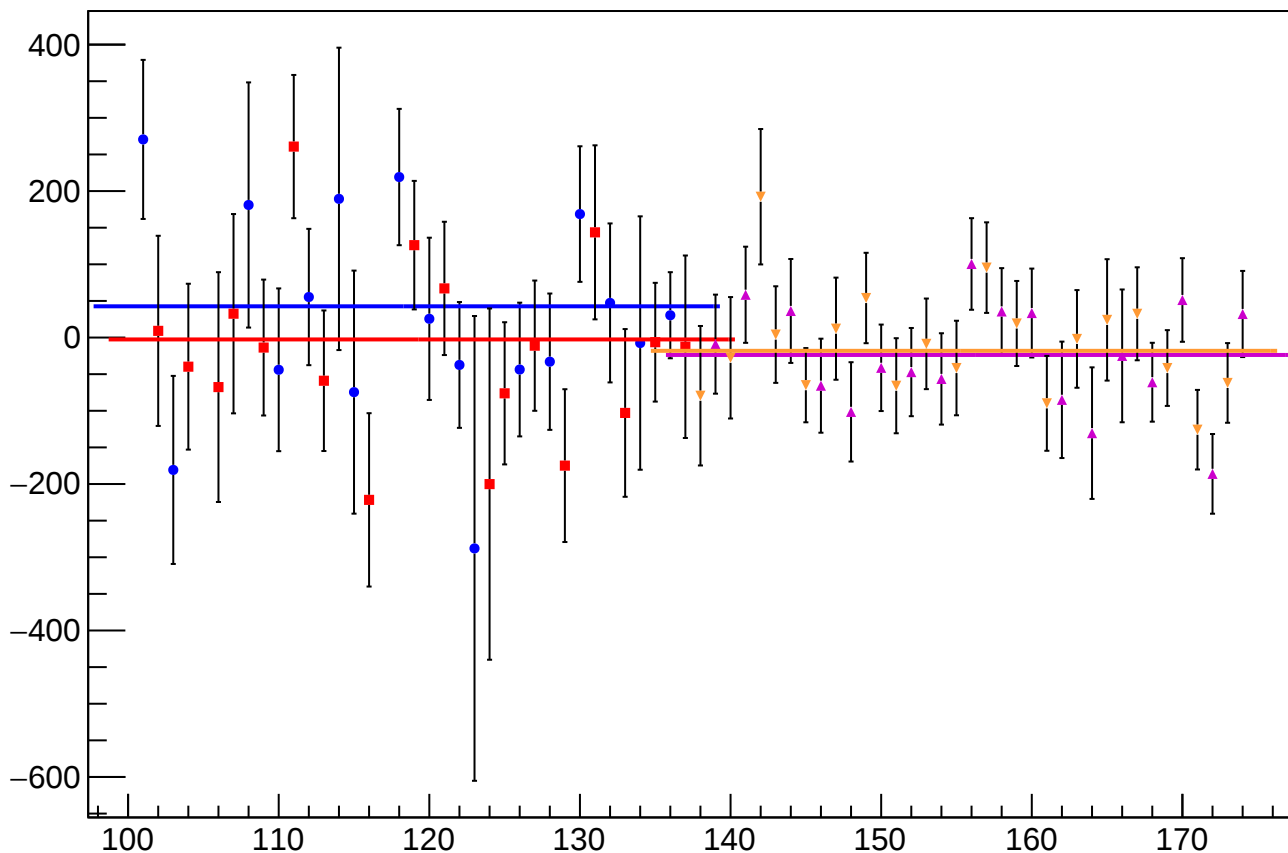
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 494.793+/-0.097  $\chi^2/\text{NDF}$ :1934397.0/17

Out: 513.206+/-0.100  $\chi^2/\text{NDF}$ :2004268.3/18

All: 503.715+/-0.069  $\chi^2/\text{NDF}$ : 3956248.2/36

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 42.654+/-25.486  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: -18.126+/-14.642  $\chi^2/\text{NDF}$ : 19.6/18

Right Out: -2.576+/-25.088  $\chi^2/\text{NDF}$ : 20.4/17

Left In: -23.773+/-15.034  $\chi^2/\text{NDF}$ : 24.5/17

Left: -20.875+/-10.489  $\chi^2/\text{NDF}$ : 44.1/36

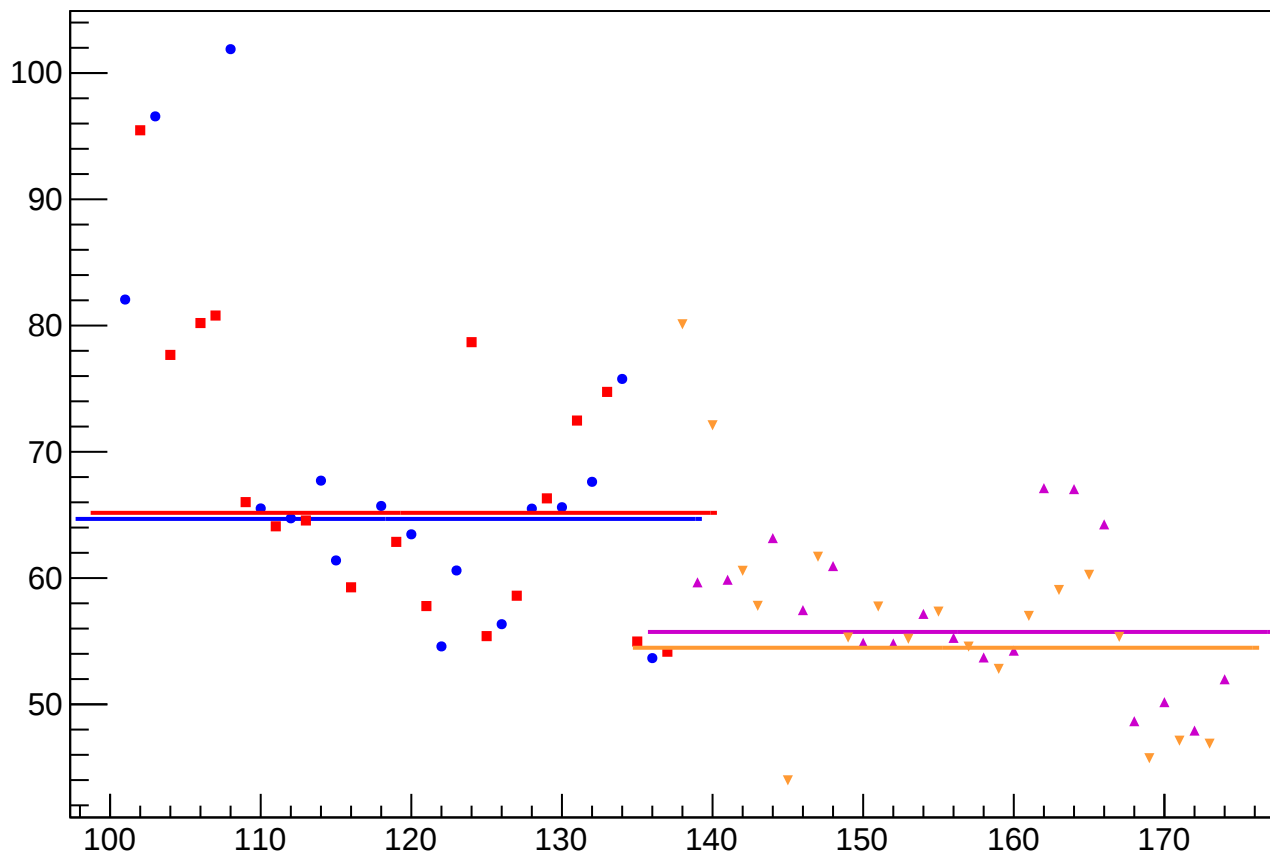
Right: 19.683+/-17.879  $\chi^2/\text{NDF}$ : 40.9/34

In: -6.625+/-12.949  $\chi^2/\text{NDF}$ : 48.3/34

Out: -14.175+/-12.646  $\chi^2/\text{NDF}$ : 40.3/36

All: -10.489+/-9.047  $\chi^2/\text{NDF}$ : 88.8/71

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: 54.481 $\pm$ 0.010  $\chi^2$ /NDF: 522851.5/18

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

Left In: 55.733 $\pm$ 0.011  $\chi^2$ /NDF: 248740.4/17

Left: 55.091 $\pm$ 0.007  $\chi^2$ /NDF: 778707.2/36

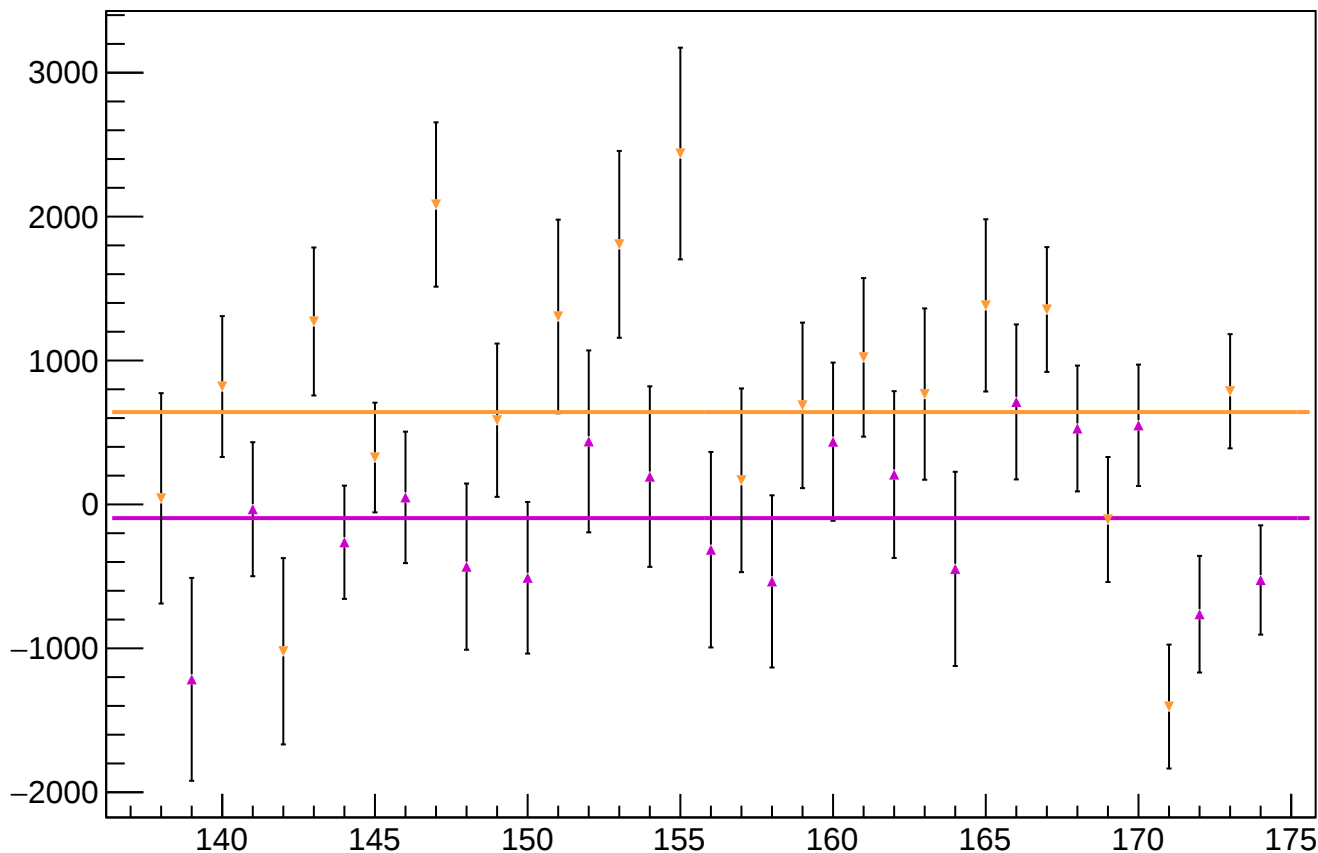
Right: 64.930 $\pm$ 0.013  $\chi^2$ /NDF: 705130.8/34

In: 58.044 $\pm$ 0.009  $\chi^2$ /NDF: 832008.0/34

Out: 57.196 $\pm$ 0.009  $\chi^2$ /NDF: 1098089.7/36

All: 57.610 $\pm$ 0.006  $\chi^2$ /NDF: 1934483.8/71

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: 641.670+/-120.496  $\chi^2/\text{NDF}$ :57.1/18

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

Left In: -95.106+/-119.267  $\chi^2/\text{NDF}$ :17.4/17

Left: 269.508+/-84.766  $\chi^2/\text{NDF}$ : 93.5/36

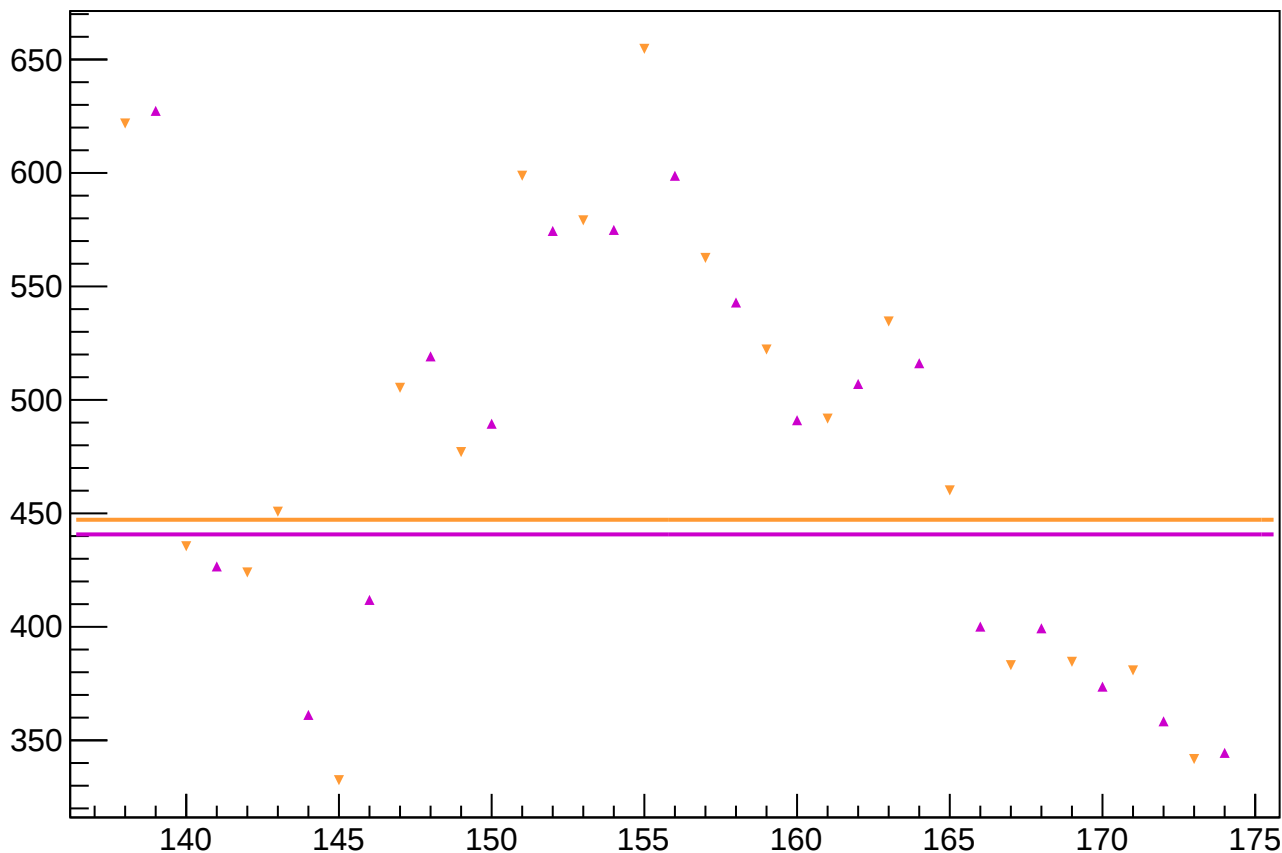
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -95.106+/-119.267  $\chi^2/\text{NDF}$ :17.4/17

Out: 641.670+/-120.496  $\chi^2/\text{NDF}$ :57.1/18

All: 269.508+/-84.766  $\chi^2/\text{NDF}$ : 93.5/36

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: 447.191+/-0.085  $\chi^2/\text{NDF}$ :1100095.5/18

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

Left In: 440.737+/-0.084  $\chi^2/\text{NDF}$ :992381.0/17

Left: 443.931+/-0.060  $\chi^2/\text{NDF}$ : 2095375.2/36

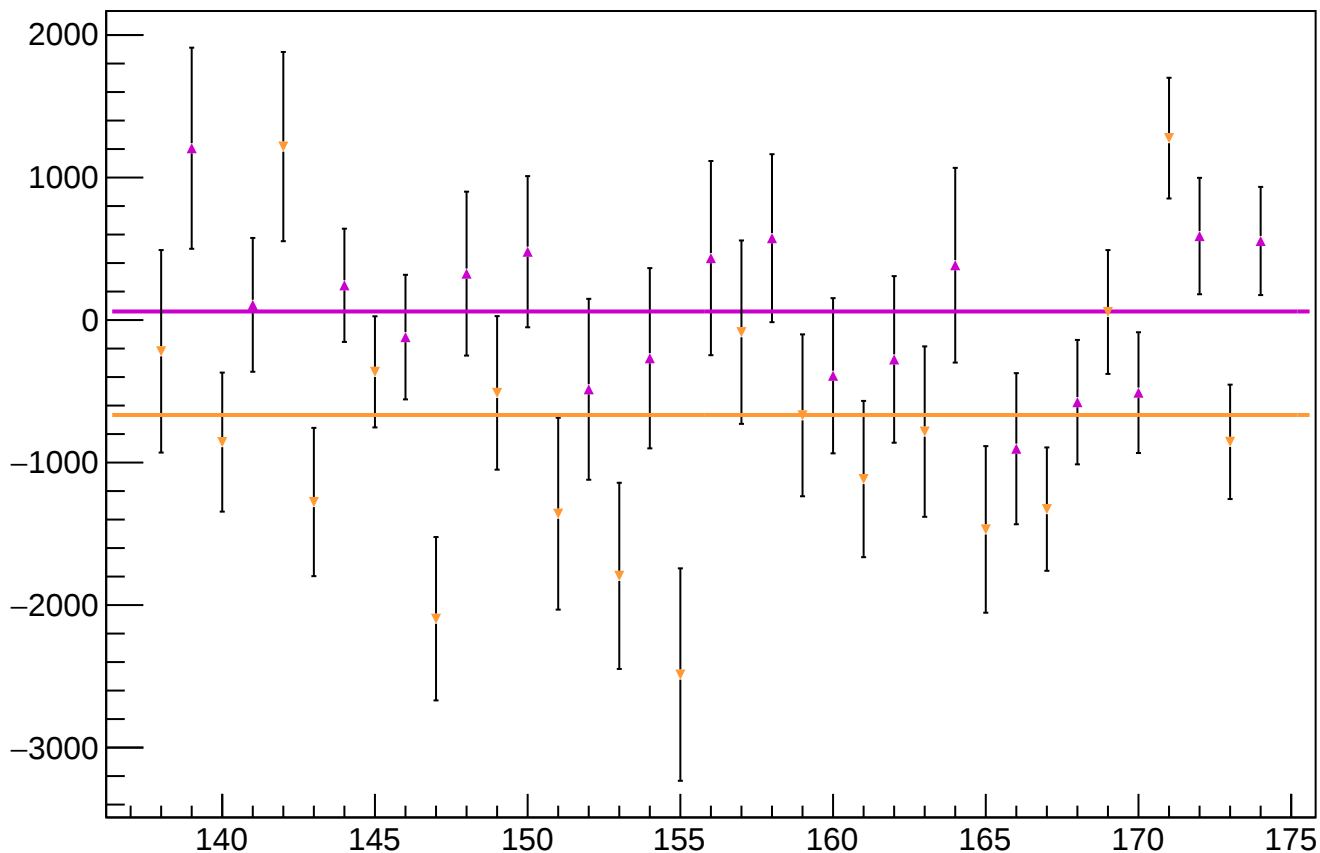
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 440.737+/-0.084  $\chi^2/\text{NDF}$ :992381.0/17

Out: 447.191+/-0.085  $\chi^2/\text{NDF}$ :1100095.5/18

All: 443.931+/-0.060  $\chi^2/\text{NDF}$ : 2095375.2/36

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: -666.084+/-120.791  $\chi^2/\text{NDF}$ : 56.7/18

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

Left In: 60.206+/-119.137  $\chi^2/\text{NDF}$ : 17.8/17

Left: -297.933+/-84.821  $\chi^2/\text{NDF}$ : 92.8/36

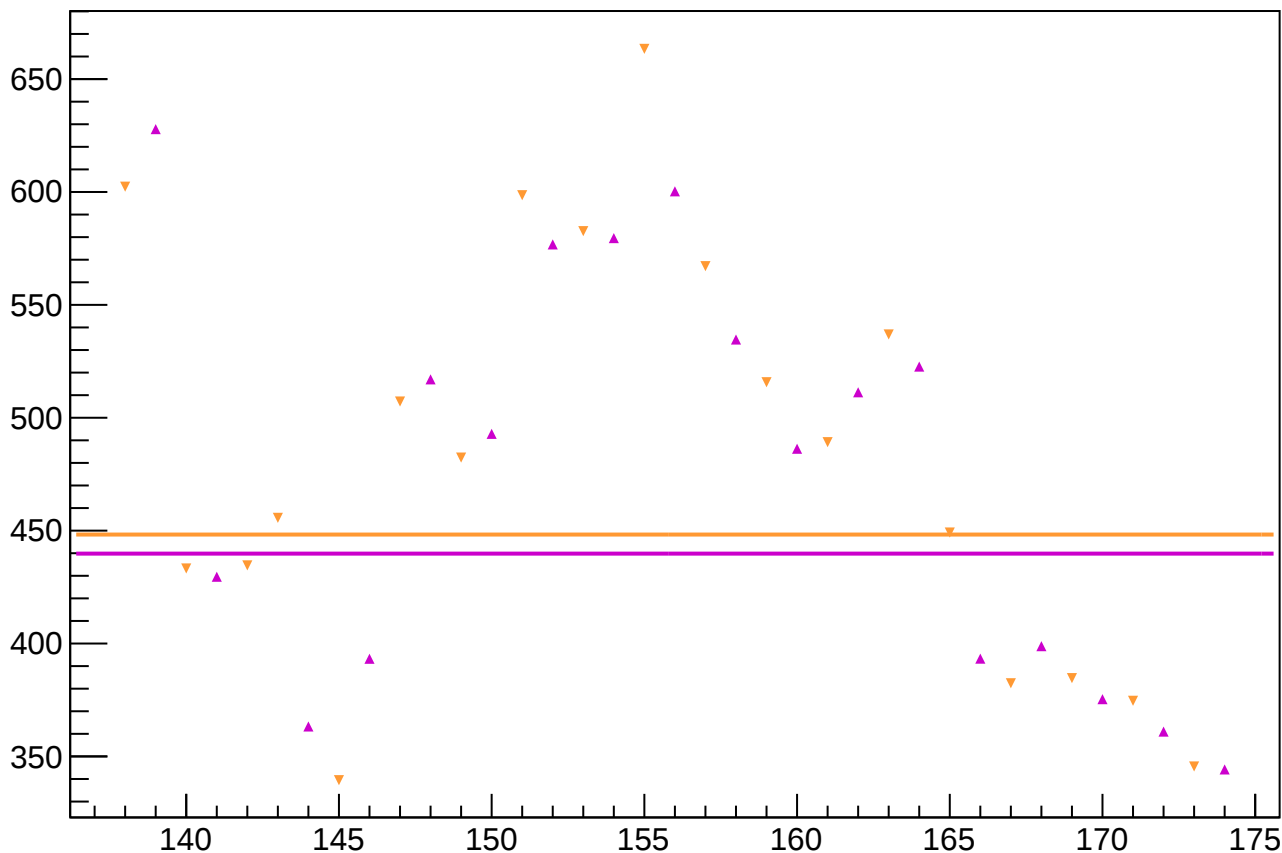
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 60.206+/-119.137  $\chi^2/\text{NDF}$ : 17.8/17

Out: -666.084+/-120.791  $\chi^2/\text{NDF}$ : 56.7/18

All: -297.933+/-84.821  $\chi^2/\text{NDF}$ : 92.8/36

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: 448.266+/-0.085  $\chi^2/\text{NDF}$ :1065078.2/18

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

Left In: 439.820+/-0.084  $\chi^2/\text{NDF}$ :1003890.3/17

Left: 443.985+/-0.060  $\chi^2/\text{NDF}$ : 2073925.0/36

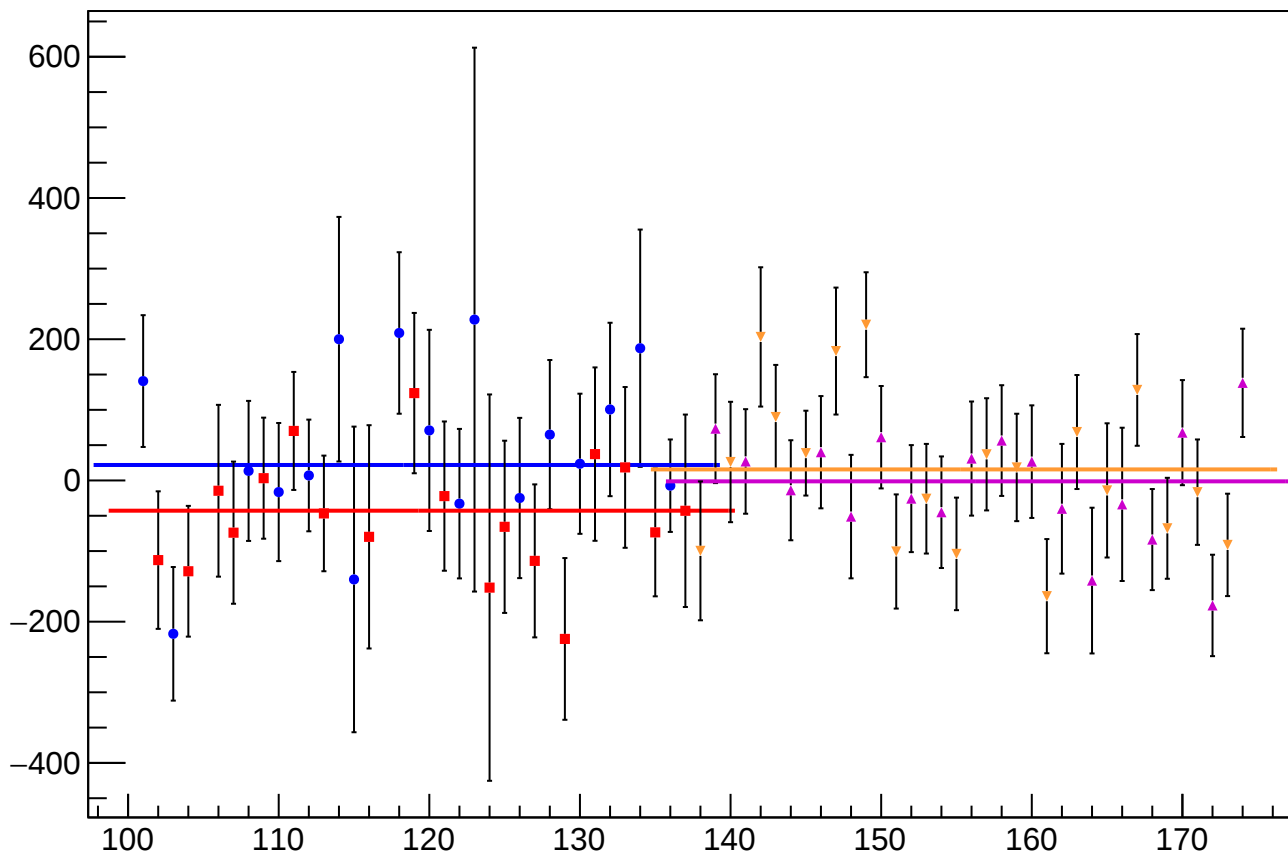
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 439.820+/-0.084  $\chi^2/\text{NDF}$ :1003890.3/17

Out: 448.266+/-0.085  $\chi^2/\text{NDF}$ :1065078.2/18

All: 443.985+/-0.060  $\chi^2/\text{NDF}$ : 2073925.0/36

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: 15.636 $\pm$ 18.078  $\chi^2$ /NDF:33.1/18

Right Out: -42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

Left In: -1.270 $\pm$ 18.653  $\chi^2$ /NDF:17.3/17

Left: 7.447 $\pm$ 12.982  $\chi^2$ /NDF: 50.9/36

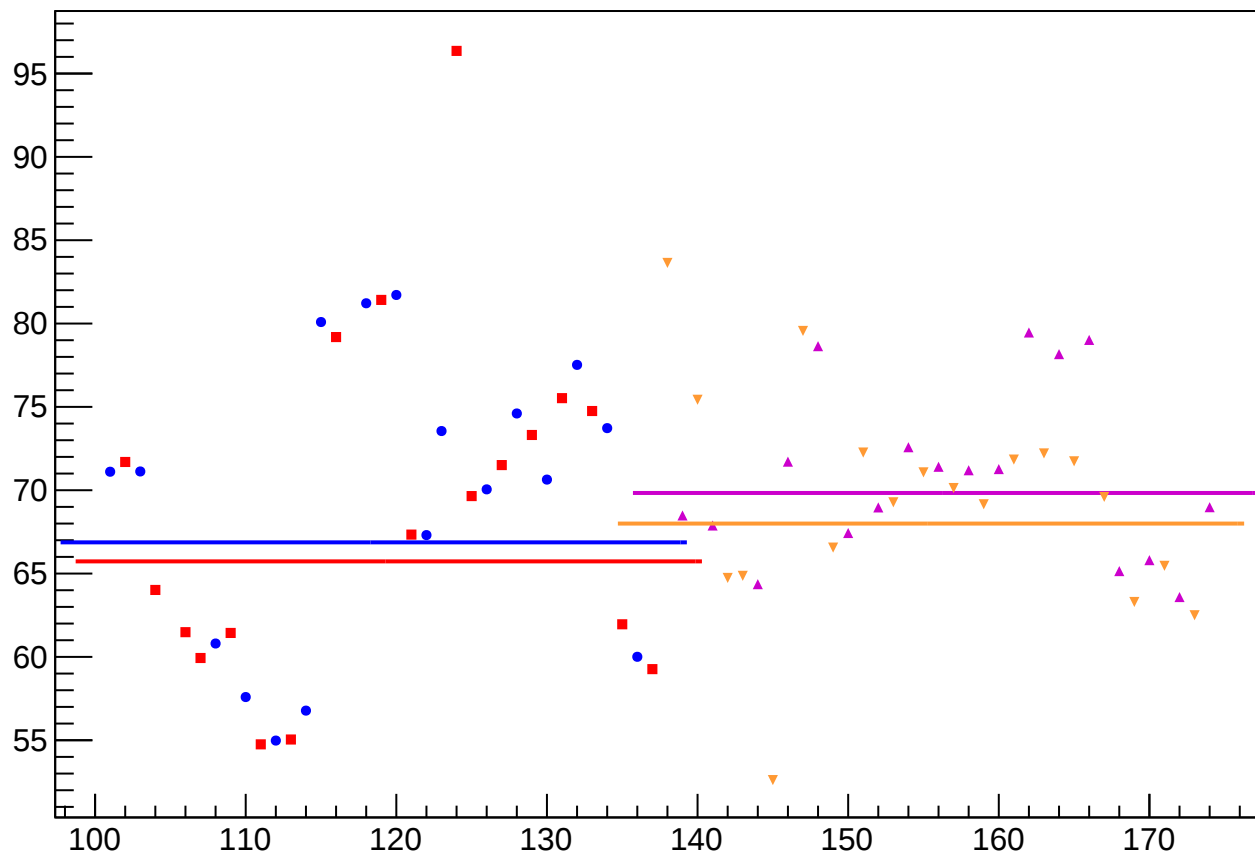
Right: -11.642 $\pm$ 18.082  $\chi^2$ /NDF: 28.1/34

In: 6.584 $\pm$ 15.167  $\chi^2$ /NDF:32.9/34

Out: -4.313 $\pm$ 14.673  $\chi^2$ /NDF:46.6/36

All: 0.955 $\pm$ 10.546  $\chi^2$ /NDF: 79.7/71

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:  $67.999 \pm 0.013$   $\chi^2/\text{NDF}: 283936.4/18$

Right Out:  $65.731 \pm 0.018$   $\chi^2/\text{NDF}: 218867.5/17$

Left In:  $69.835 \pm 0.013$   $\chi^2/\text{NDF}: 121375.9/17$

Left:  $68.889 \pm 0.009$   $\chi^2/\text{NDF}: 415306.3/36$

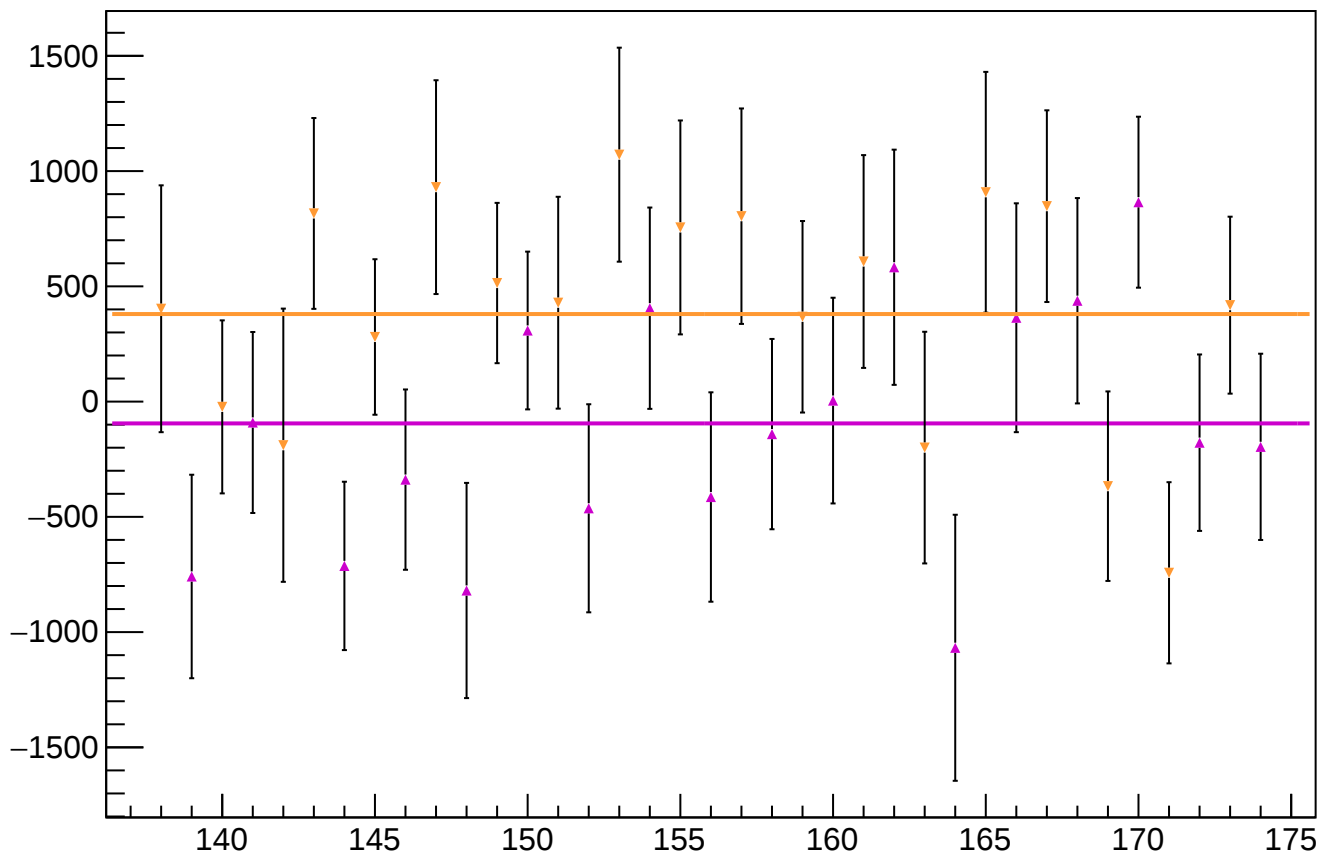
Right:  $66.280 \pm 0.013$   $\chi^2/\text{NDF}: 423373.0/34$

In:  $68.831 \pm 0.011$   $\chi^2/\text{NDF}: 340996.2/34$

Out:  $67.225 \pm 0.010$   $\chi^2/\text{NDF}: 513552.9/36$

All:  $68.001 \pm 0.007$   $\chi^2/\text{NDF}: 866137.5/71$

asym\_sam\_37\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 379.848+/-98.701  $\chi^2/\text{NDF}$ :23.9/18

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

Left In: -94.622+/-99.583  $\chi^2/\text{NDF}$ :25.5/17

Left: 144.724+/-70.102  $\chi^2/\text{NDF}$ : 60.9/36

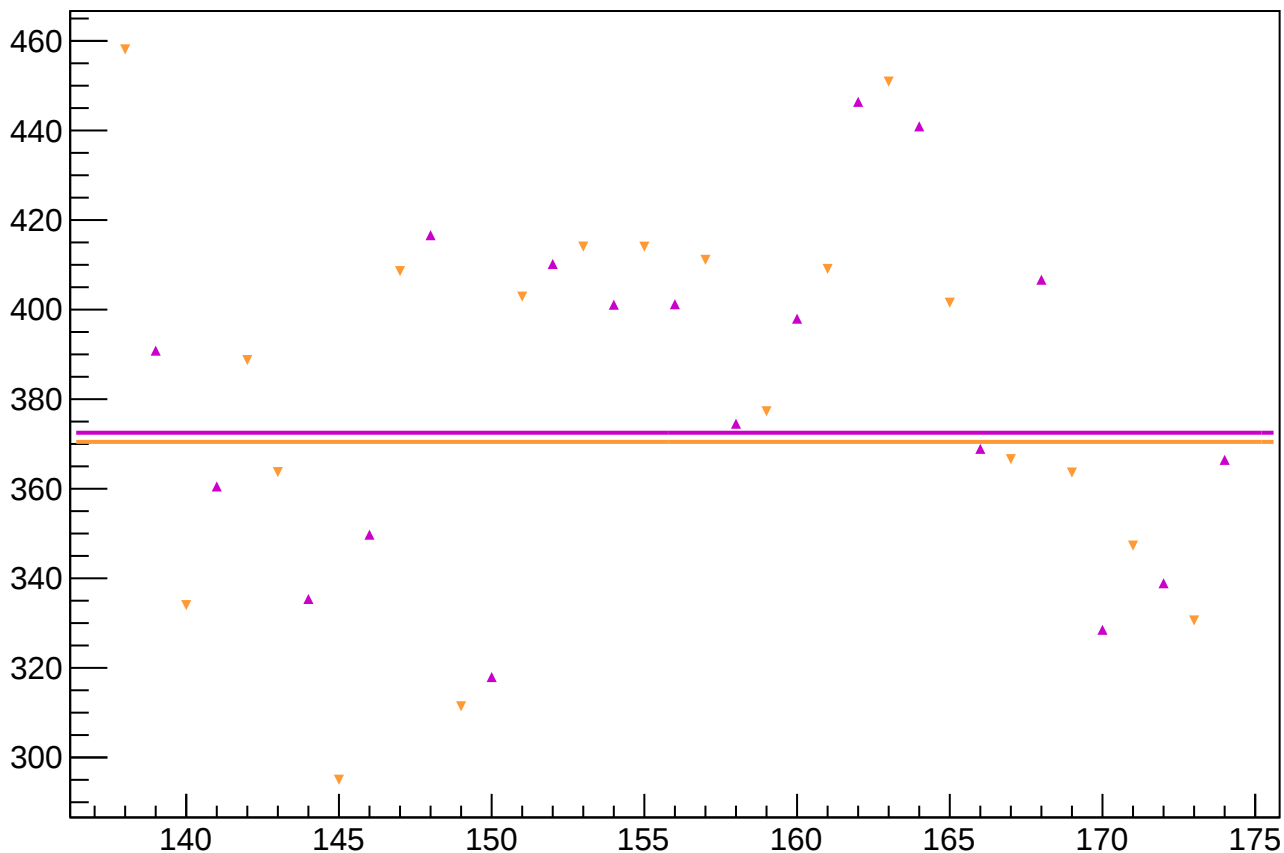
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -94.622+/-99.583  $\chi^2/\text{NDF}$ :25.5/17

Out: 379.848+/-98.701  $\chi^2/\text{NDF}$ :23.9/18

All: 144.724+/-70.102  $\chi^2/\text{NDF}$ : 60.9/36

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: 370.462+/-0.070  $\chi^2/\text{NDF}$ :408611.8/18

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

Left In: 372.510+/-0.070  $\chi^2/\text{NDF}$ :264459.9/17

Left: 371.477+/-0.050  $\chi^2/\text{NDF}$ : 673498.1/36

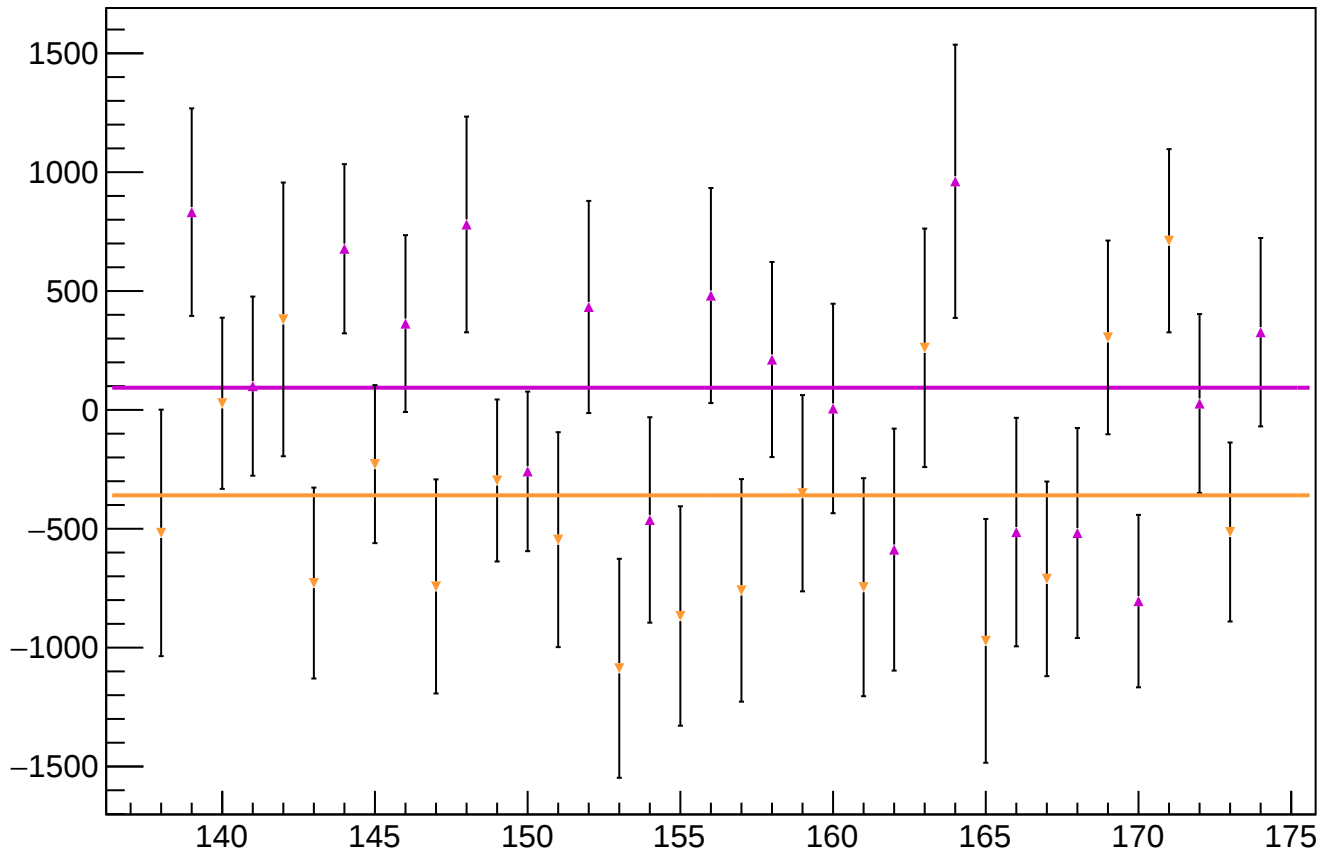
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 372.510+/-0.070  $\chi^2/\text{NDF}$ :264459.9/17

Out: 370.462+/-0.070  $\chi^2/\text{NDF}$ :408611.8/18

All: 371.477+/-0.050  $\chi^2/\text{NDF}$ : 673498.1/36

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: -359.262+/-96.991  $\chi^2/\text{NDF}$ :24.2/18

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

Left In: 93.376+/-97.645  $\chi^2/\text{NDF}$ :26.7/17

Left: -134.463+/-68.813  $\chi^2/\text{NDF}$ : 61.7/36

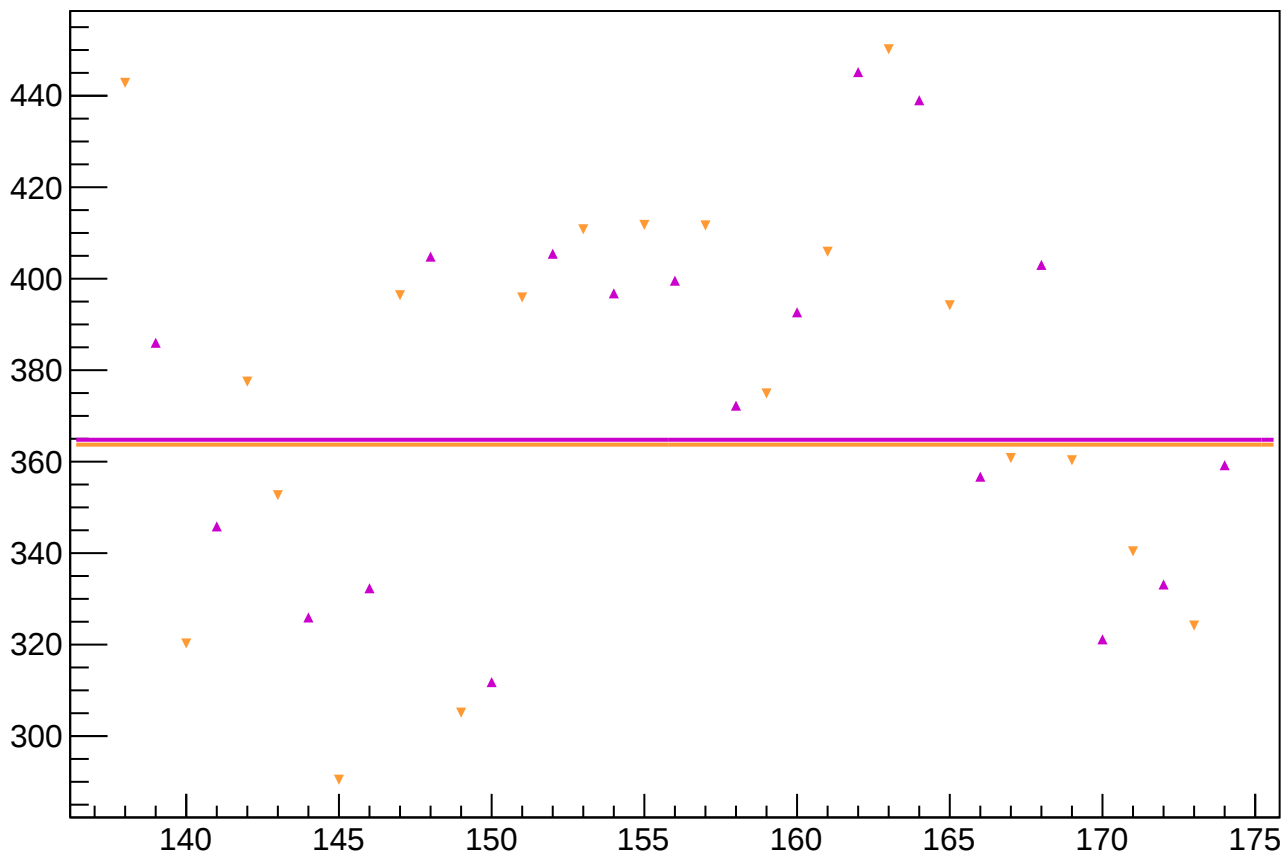
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 93.376+/-97.645  $\chi^2/\text{NDF}$ :26.7/17

Out: -359.262+/-96.991  $\chi^2/\text{NDF}$ :24.2/18

All: -134.463+/-68.813  $\chi^2/\text{NDF}$ : 61.7/36

# asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 363.717+/-0.069  $\chi^2/\text{NDF}$ :433407.0/18

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

Left In: 364.788+/-0.069  $\chi^2/\text{NDF}$ :304620.4/17

Left: 364.249+/-0.049  $\chi^2/\text{NDF}$ : 738148.5/36

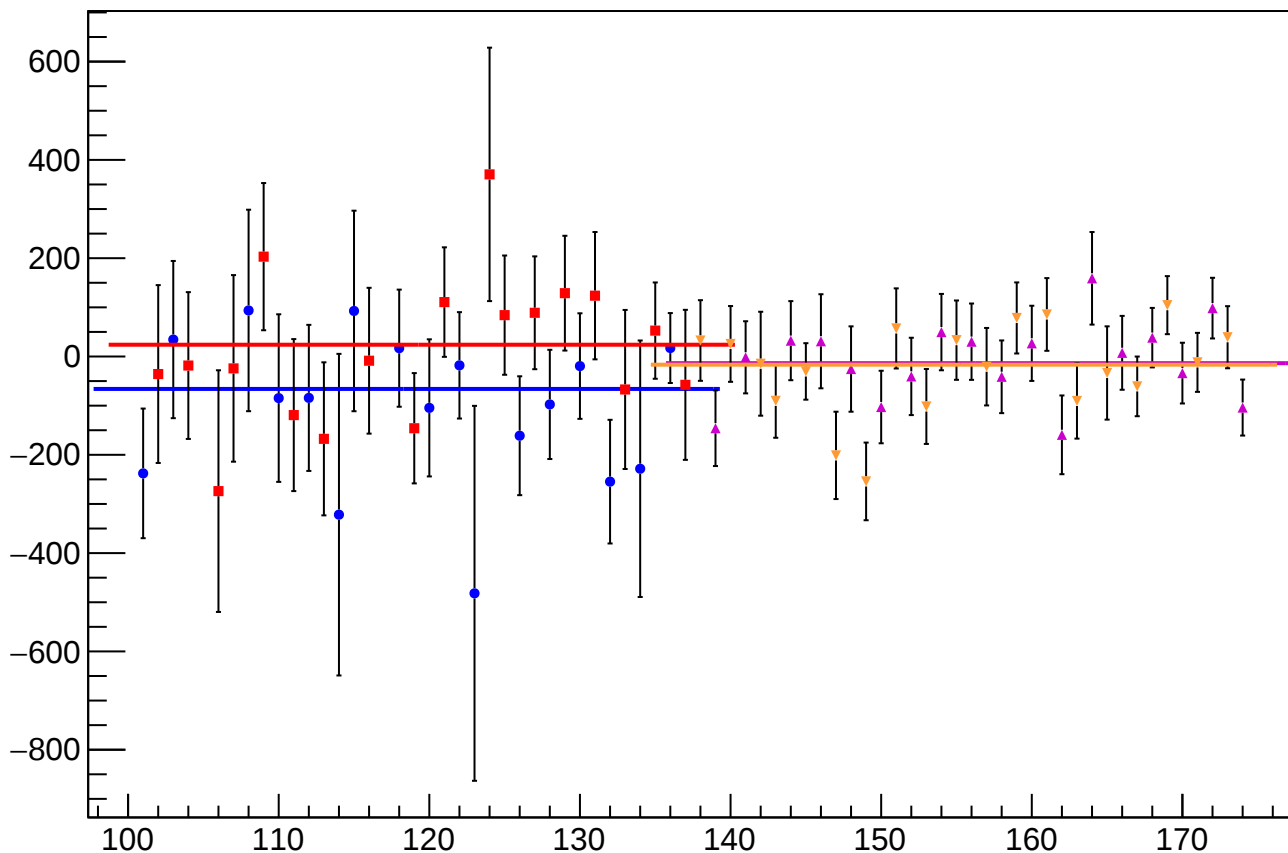
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 364.788+/-0.069  $\chi^2/\text{NDF}$ :304620.4/17

Out: 363.717+/-0.069  $\chi^2/\text{NDF}$ :433407.0/18

All: 364.249+/-0.049  $\chi^2/\text{NDF}$ : 738148.5/36

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:  $-16.646 \pm 16.778$   $\chi^2/\text{NDF}$ : 27.6/18

Right Out:  $23.979 \pm 32.790$   $\chi^2/\text{NDF}$ : 12.9/17

Left In:  $-13.577 \pm 17.320$   $\chi^2/\text{NDF}$ : 19.9/17

Left:  $-15.160 \pm 12.051$   $\chi^2/\text{NDF}$ : 47.5/36

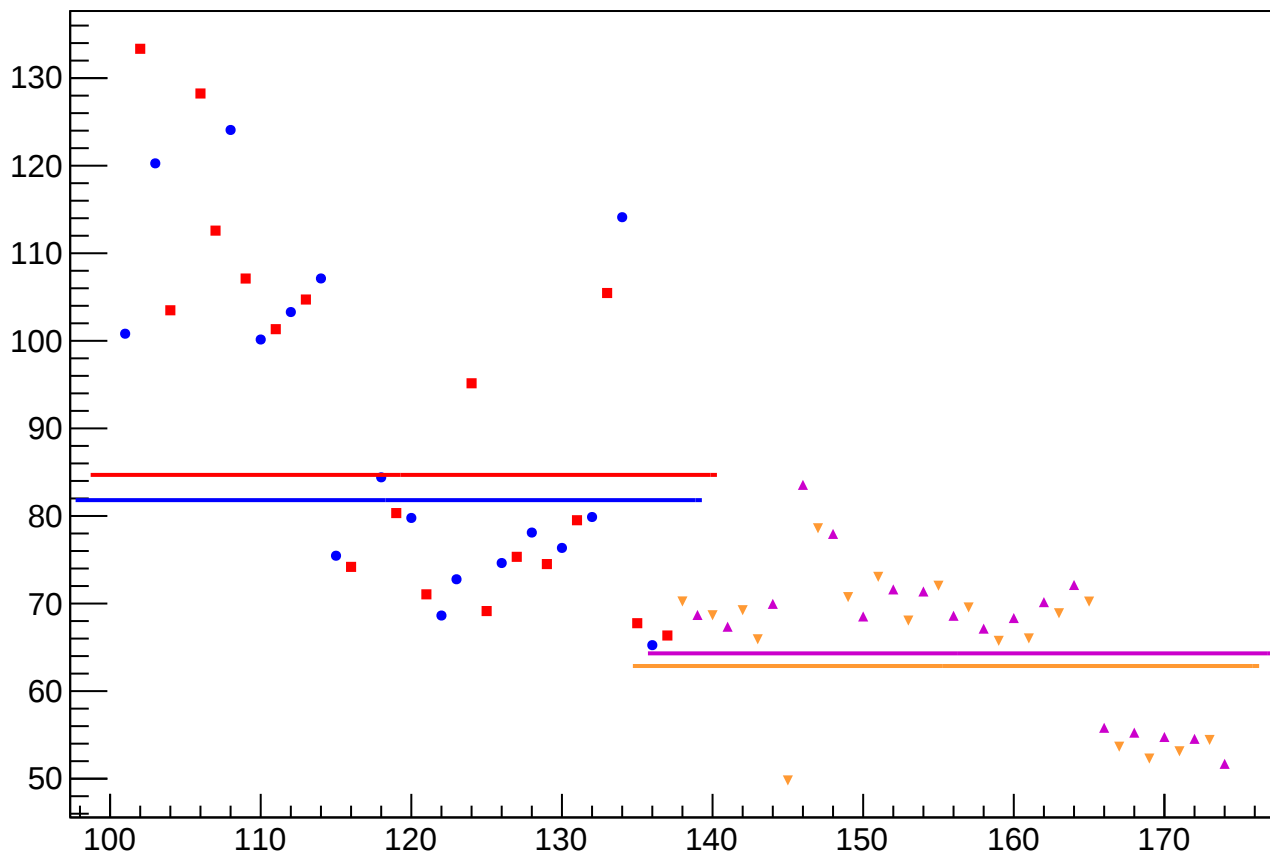
Right:  $-21.690 \pm 23.007$   $\chi^2/\text{NDF}$ : 27.5/34

In:  $-25.285 \pm 15.263$   $\chi^2/\text{NDF}$ : 32.7/34

Out:  $-8.216 \pm 14.937$   $\chi^2/\text{NDF}$ : 41.7/36

All:  $-16.566 \pm 10.675$   $\chi^2/\text{NDF}$ : 75.1/71

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 62.867 $\pm$ 0.012  $\chi^2$ /NDF: 534340.4/18

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

Left In: 64.311 $\pm$ 0.012  $\chi^2$ /NDF: 495653.4/17

Left: 63.566 $\pm$ 0.009  $\chi^2$ /NDF: 1037159.7/36

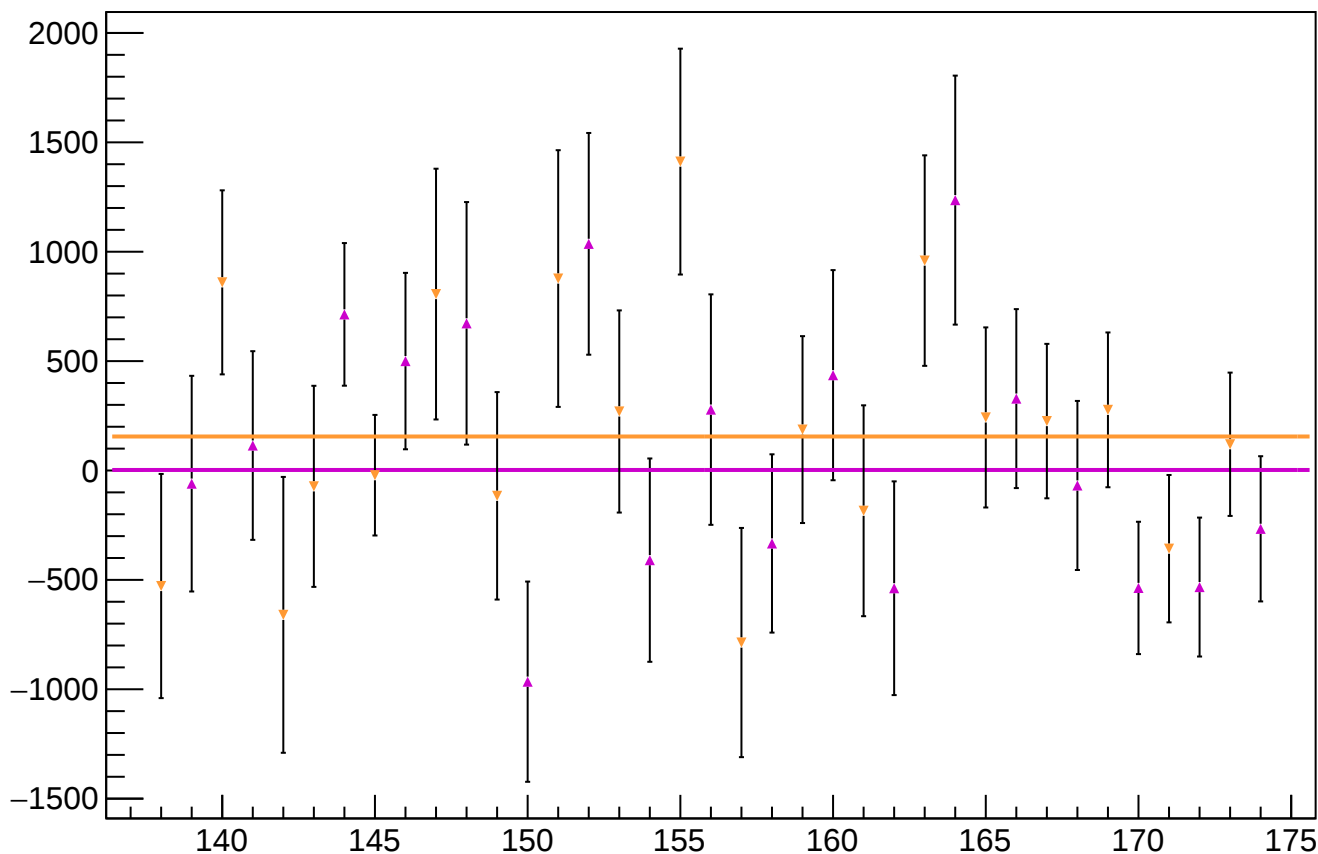
Right: 83.228 $\pm$ 0.016  $\chi^2$ /NDF: 1130968.2/34

In: 68.221 $\pm$ 0.011  $\chi^2$ /NDF: 1458953.1/34

Out: 67.396 $\pm$ 0.011  $\chi^2$ /NDF: 1852371.3/36

All: 67.799 $\pm$ 0.008  $\chi^2$ /NDF: 3314307.8/71

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: 155.394+/-96.896  $\chi^2/\text{NDF}$ :25.1/18

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

Left In: 2.405+/-97.383  $\chi^2/\text{NDF}$ :32.3/17

Left: 79.283+/-68.687  $\chi^2/\text{NDF}$ : 58.6/36

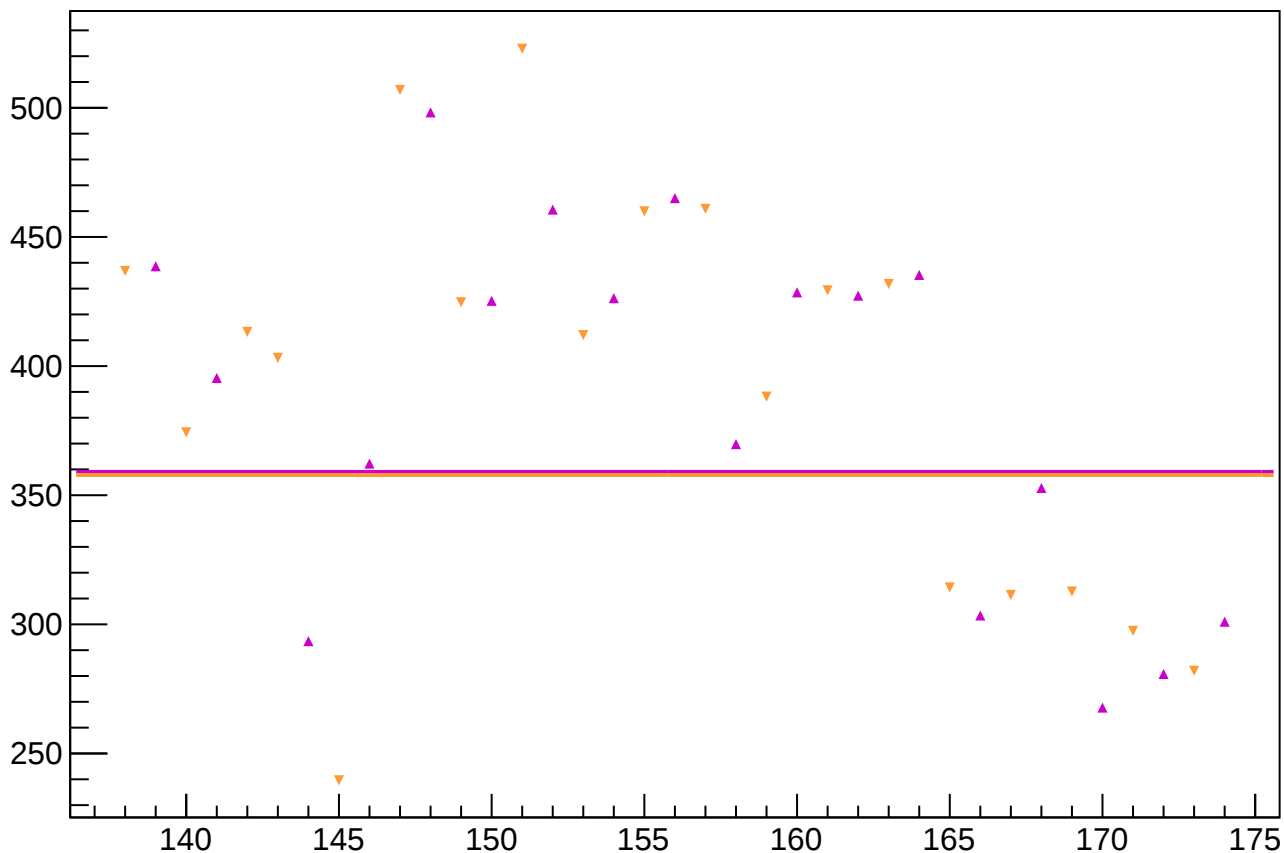
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.405+/-97.383  $\chi^2/\text{NDF}$ :32.3/17

Out: 155.394+/-96.896  $\chi^2/\text{NDF}$ :25.1/18

All: 79.283+/-68.687  $\chi^2/\text{NDF}$ : 58.6/36

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: 357.828+/-0.069  $\chi^2/\text{NDF}$ :1332251.8/18

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

Left In: 359.018+/-0.069  $\chi^2/\text{NDF}$ :1038944.5/17

Left: 358.420+/-0.049  $\chi^2/\text{NDF}$ : 2371346.4/36

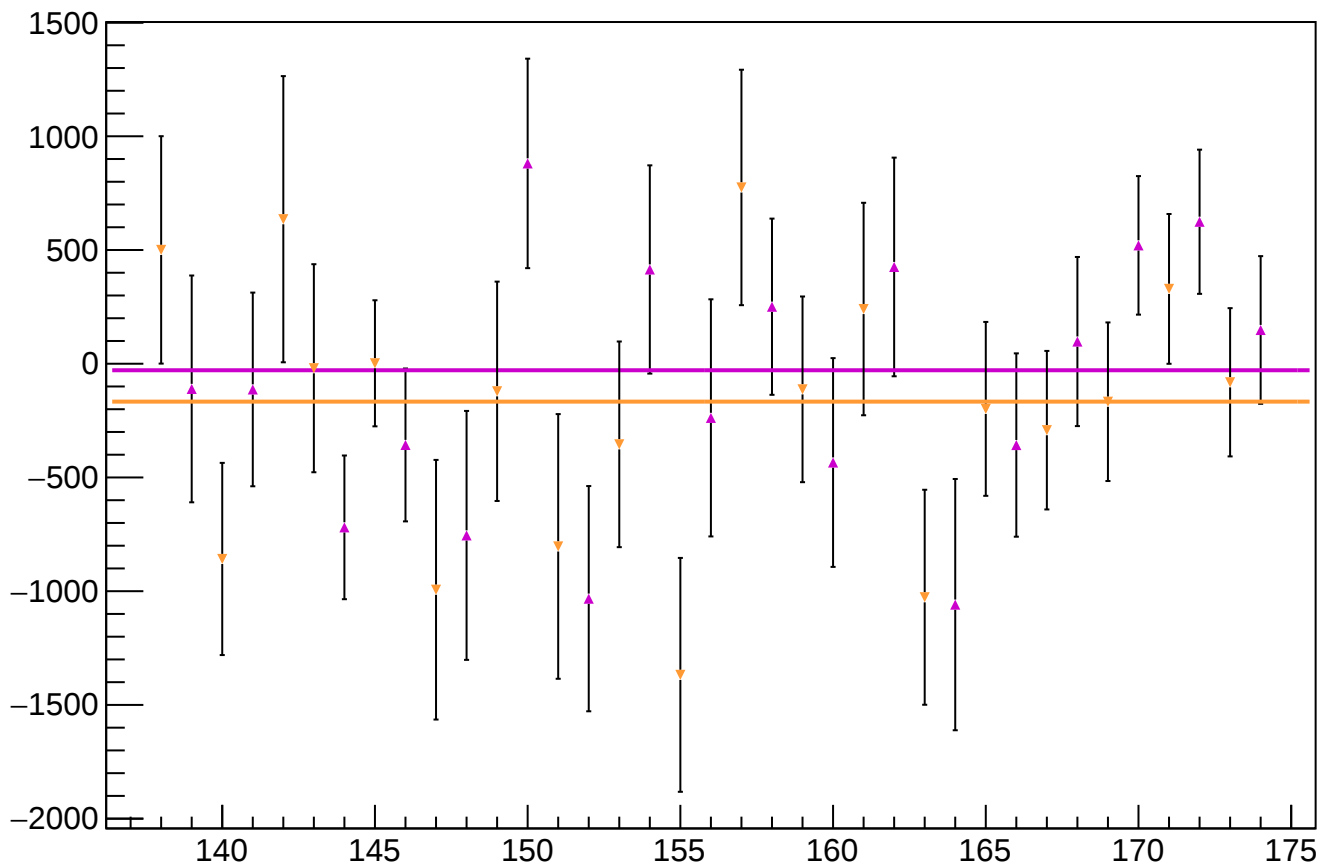
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 359.018+/-0.069  $\chi^2/\text{NDF}$ :1038944.5/17

Out: 357.828+/-0.069  $\chi^2/\text{NDF}$ :1332251.8/18

All: 358.420+/-0.049  $\chi^2/\text{NDF}$ : 2371346.4/36

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: -166.604+/-95.485  $\chi^2/\text{NDF}$ :25.4/18

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

Left In: -28.675+/-94.640  $\chi^2/\text{NDF}$ :30.9/17

Left: -97.027+/-67.217  $\chi^2/\text{NDF}$ : 57.3/36

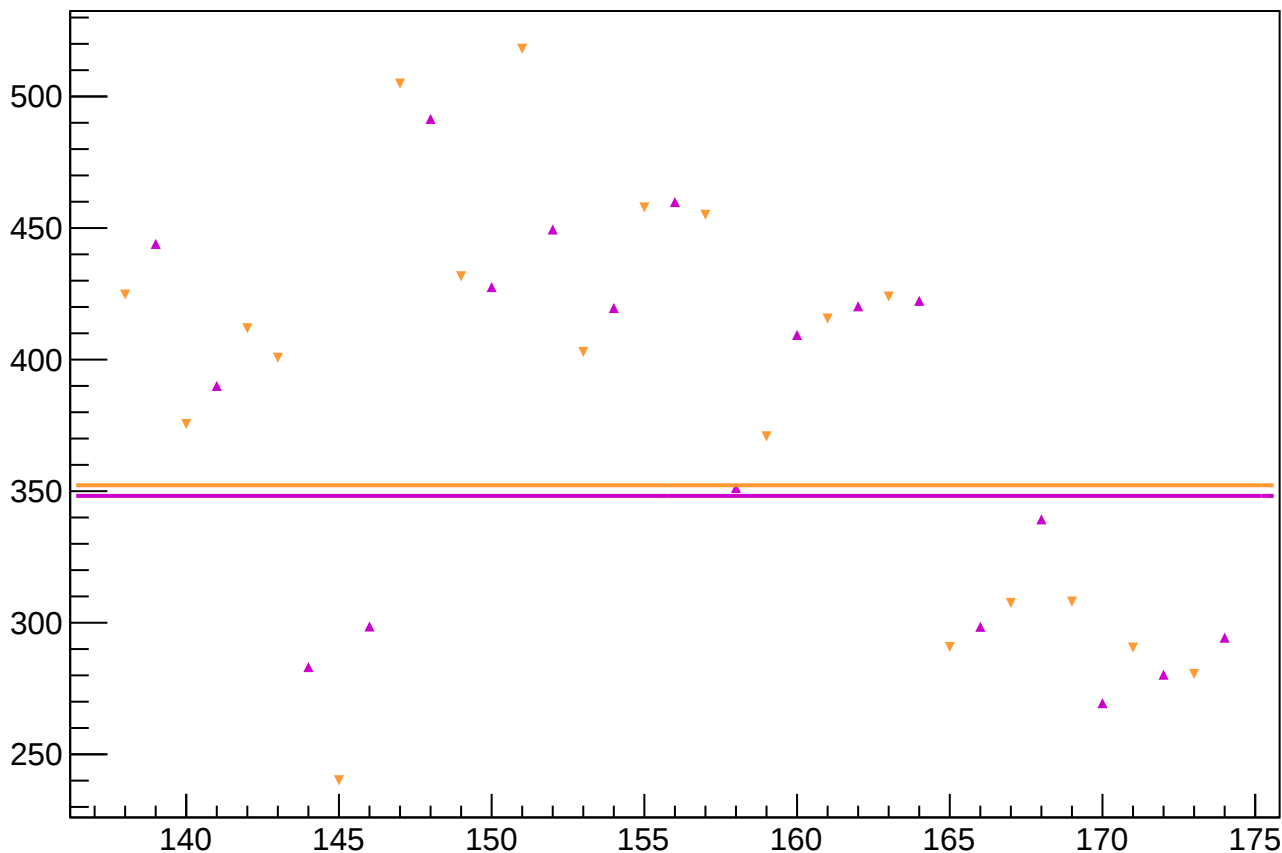
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -28.675+/-94.640  $\chi^2/\text{NDF}$ :30.9/17

Out: -166.604+/-95.485  $\chi^2/\text{NDF}$ :25.4/18

All: -97.027+/-67.217  $\chi^2/\text{NDF}$ : 57.3/36

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: 352.250+/-0.068  $\chi^2/\text{NDF}$ :1335141.4/18

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

Left In: 348.208+/-0.067  $\chi^2/\text{NDF}$ :1071171.8/17

Left: 350.211+/-0.048  $\chi^2/\text{NDF}$ : 2408121.2/36

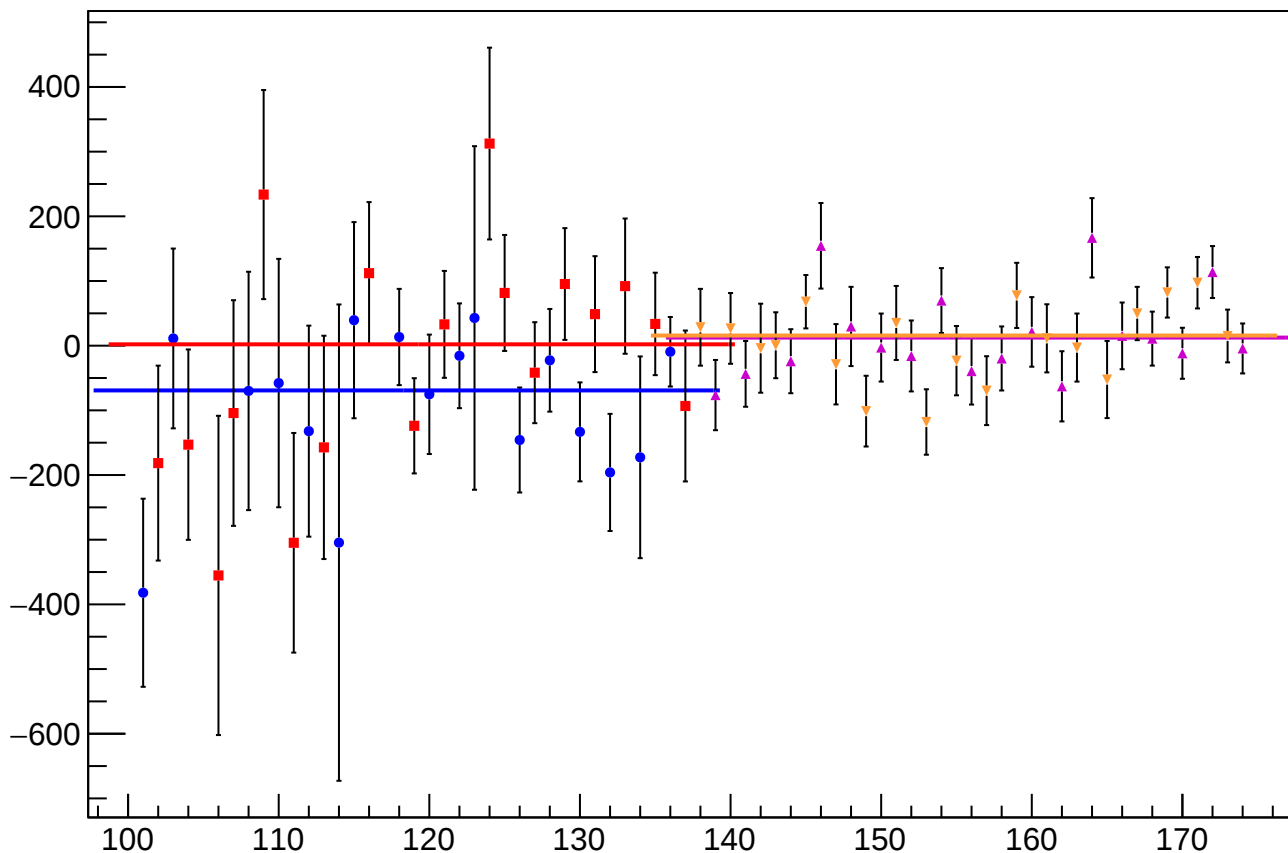
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 348.208+/-0.067  $\chi^2/\text{NDF}$ :1071171.8/17

Out: 352.250+/-0.068  $\chi^2/\text{NDF}$ :1335141.4/18

All: 350.211+/-0.048  $\chi^2/\text{NDF}$ : 2408121.2/36

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:  $15.679 \pm 11.417$   $\chi^2/\text{NDF}$ : 27.9/18

Right Out:  $2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

Left In:  $12.500 \pm 11.675$   $\chi^2/\text{NDF}$ : 27.4/17

Left:  $14.125 \pm 8.163$   $\chi^2/\text{NDF}$ : 55.4/36

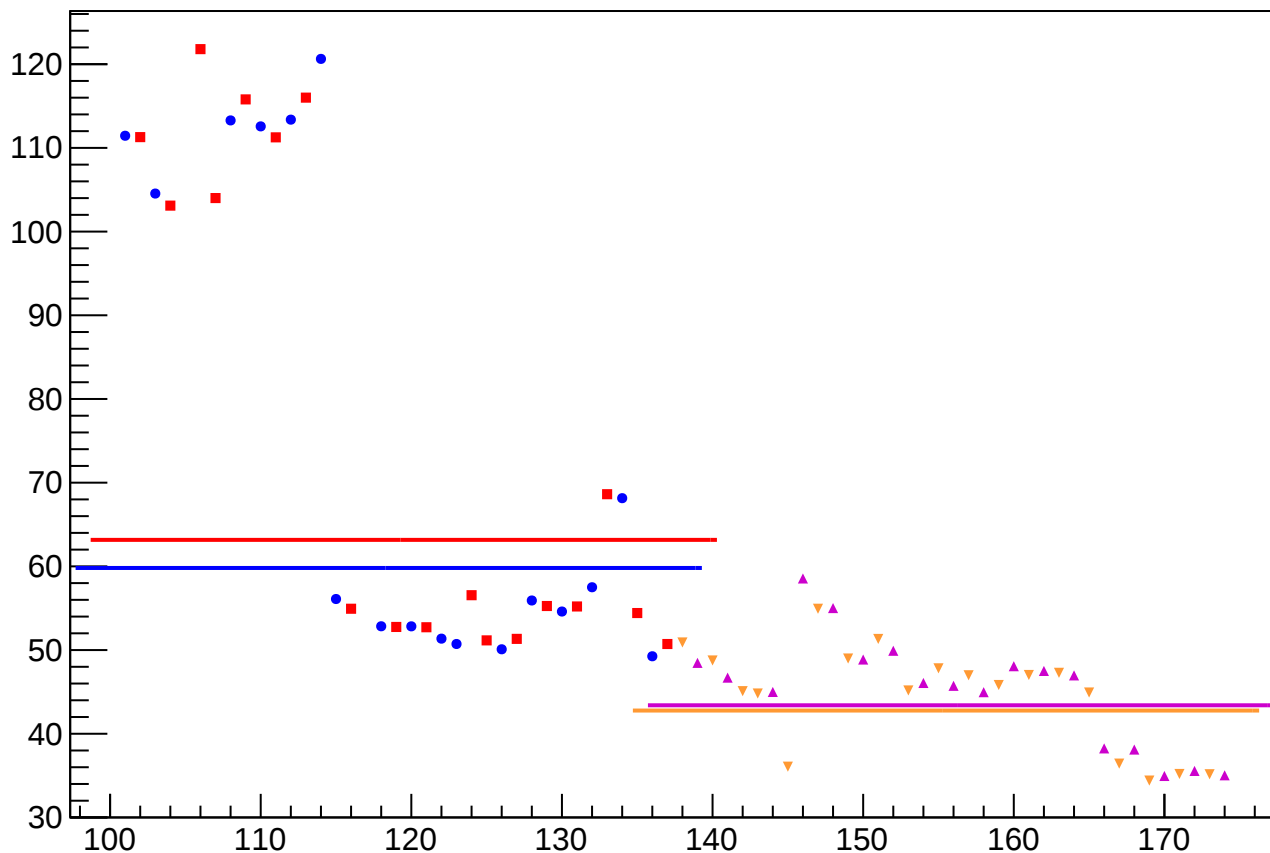
Right:  $-34.889 \pm 17.473$   $\chi^2/\text{NDF}$ : 41.4/34

In:  $-2.860 \pm 10.520$   $\chi^2/\text{NDF}$ : 50.1/34

Out:  $13.361 \pm 10.399$   $\chi^2/\text{NDF}$ : 51.9/36

All:  $5.344 \pm 7.396$   $\chi^2/\text{NDF}$ : 103.2/71

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: 42.773 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 621599.9/18

Right Out: 63.166 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1387305.6/17

Left In: 43.401 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 613590.7/17

Left: 43.080 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 1238148.6/36

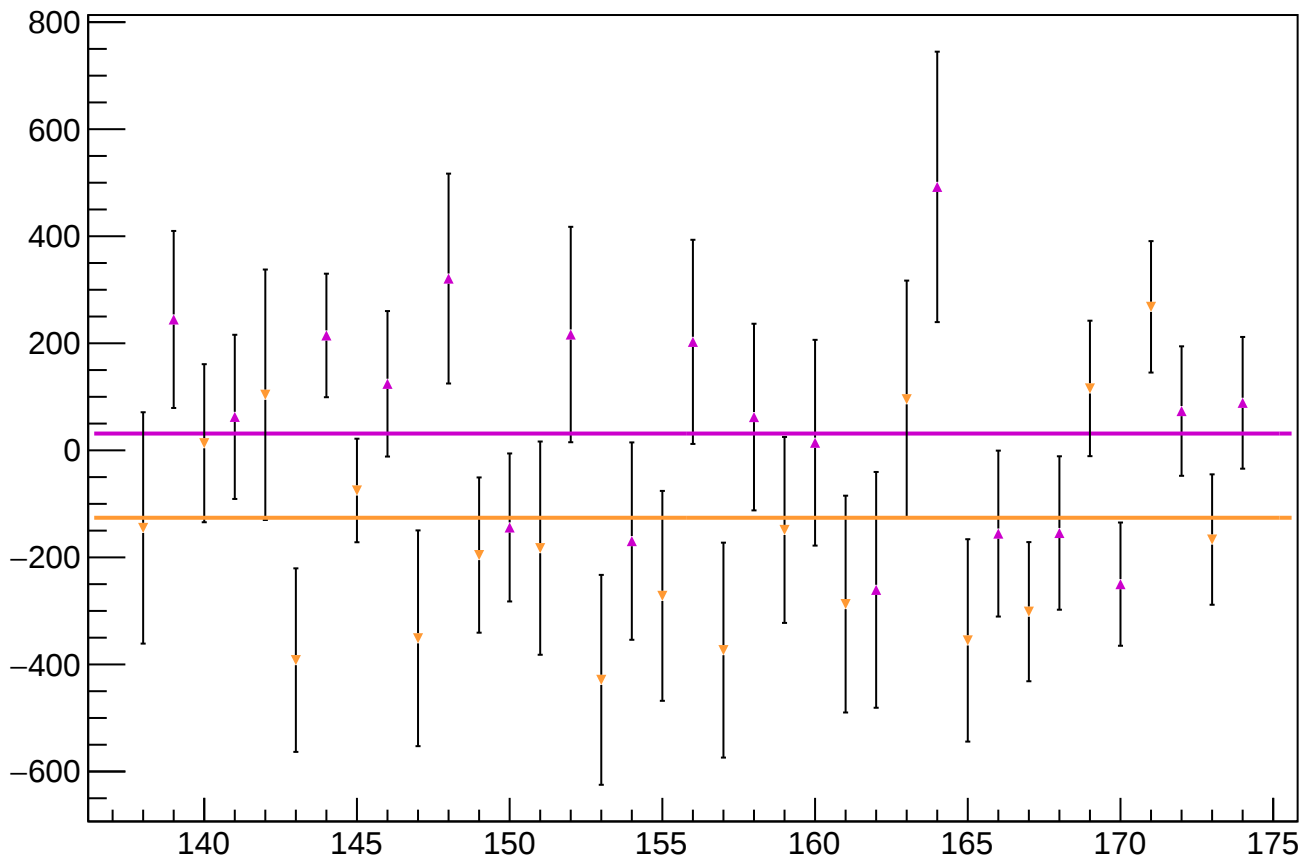
Right: 61.424 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 2635717.1/34

In: 46.487 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 2586339.0/34

Out: 46.250 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 3096436.6/36

All: 46.367 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 5683289.4/71

asym\_sam\_37\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -125.955+/-36.231  $\chi^2/\text{NDF}$ :29.6/18

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

Left In: 31.379+/-36.164  $\chi^2/\text{NDF}$ :25.9/17

Left: -47.143+/-25.595  $\chi^2/\text{NDF}$ : 64.9/36

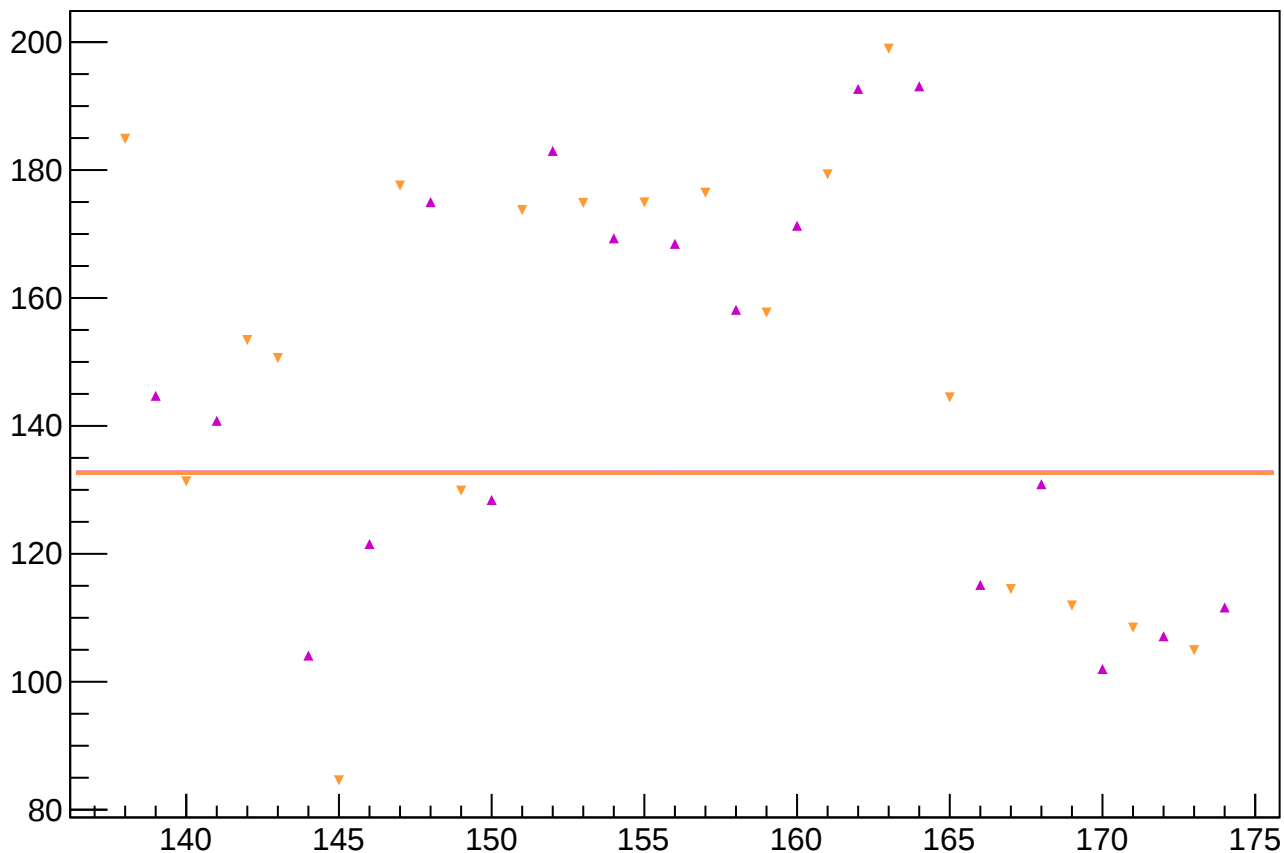
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 31.379+/-36.164  $\chi^2/\text{NDF}$ :25.9/17

Out: -125.955+/-36.231  $\chi^2/\text{NDF}$ :29.6/18

All: -47.143+/-25.595  $\chi^2/\text{NDF}$ : 64.9/36

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: 132.668+/-0.026  $\chi^2/\text{NDF}$ :1722956.5/18

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

Left In: 132.704+/-0.026  $\chi^2/\text{NDF}$ :1223953.7/17

Left: 132.686+/-0.018  $\chi^2/\text{NDF}$ : 2946911.1/36

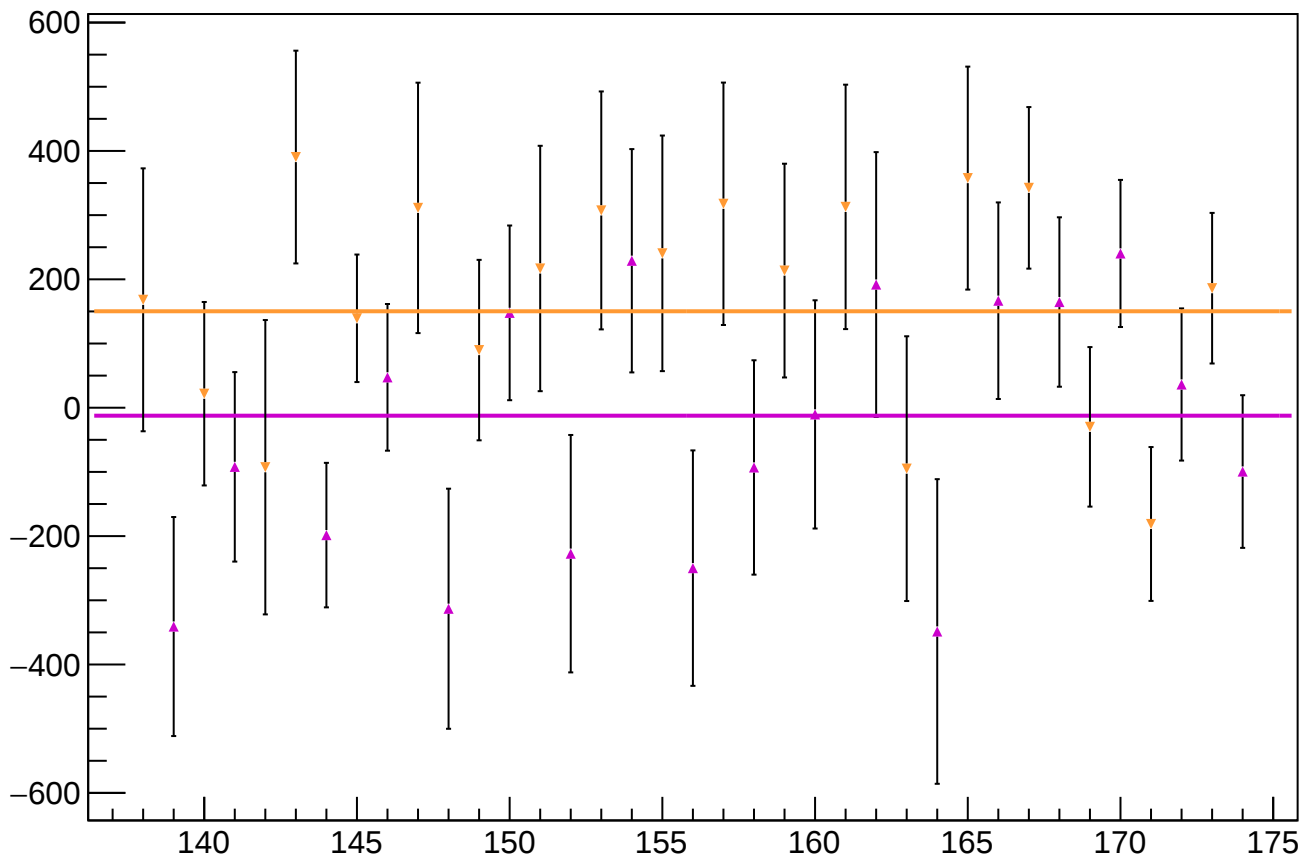
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 132.704+/-0.026  $\chi^2/\text{NDF}$ :1223953.7/17

Out: 132.668+/-0.026  $\chi^2/\text{NDF}$ :1722956.5/18

All: 132.686+/-0.018  $\chi^2/\text{NDF}$ : 2946911.1/36

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: 150.243+/-35.108  $\chi^2/\text{NDF}$ :22.7/18

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

Left In: -12.422+/-34.557  $\chi^2/\text{NDF}$ :27.9/17

Left: 67.624+/-24.628  $\chi^2/\text{NDF}$ : 61.5/36

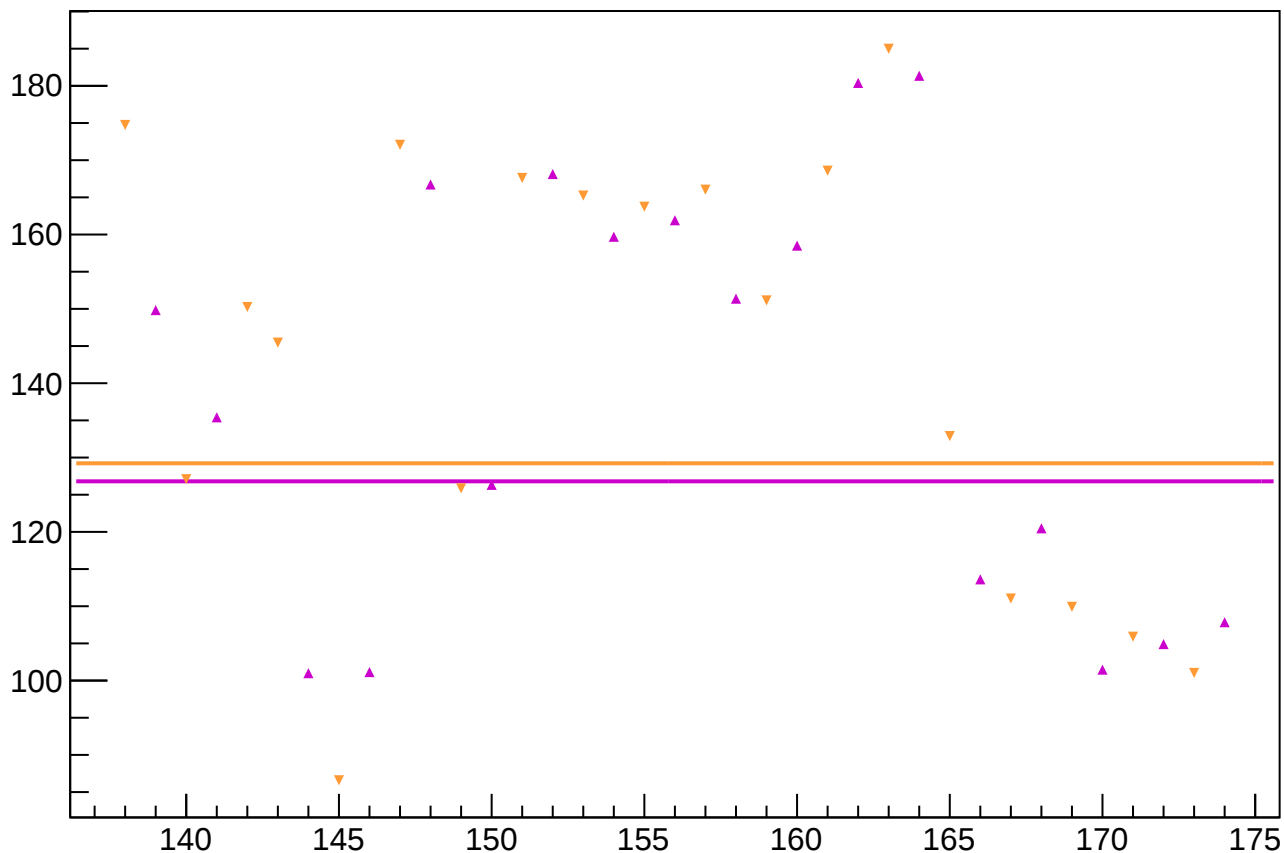
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.422+/-34.557  $\chi^2/\text{NDF}$ :27.9/17

Out: 150.243+/-35.108  $\chi^2/\text{NDF}$ :22.7/18

All: 67.624+/-24.628  $\chi^2/\text{NDF}$ : 61.5/36

asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 129.226+/-0.025  $\chi^2/\text{NDF}$ :1453116.7/18

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

Left In: 126.802+/-0.024  $\chi^2/\text{NDF}$ :1169229.1/17

Left: 127.995+/-0.017  $\chi^2/\text{NDF}$ : 2627188.3/36

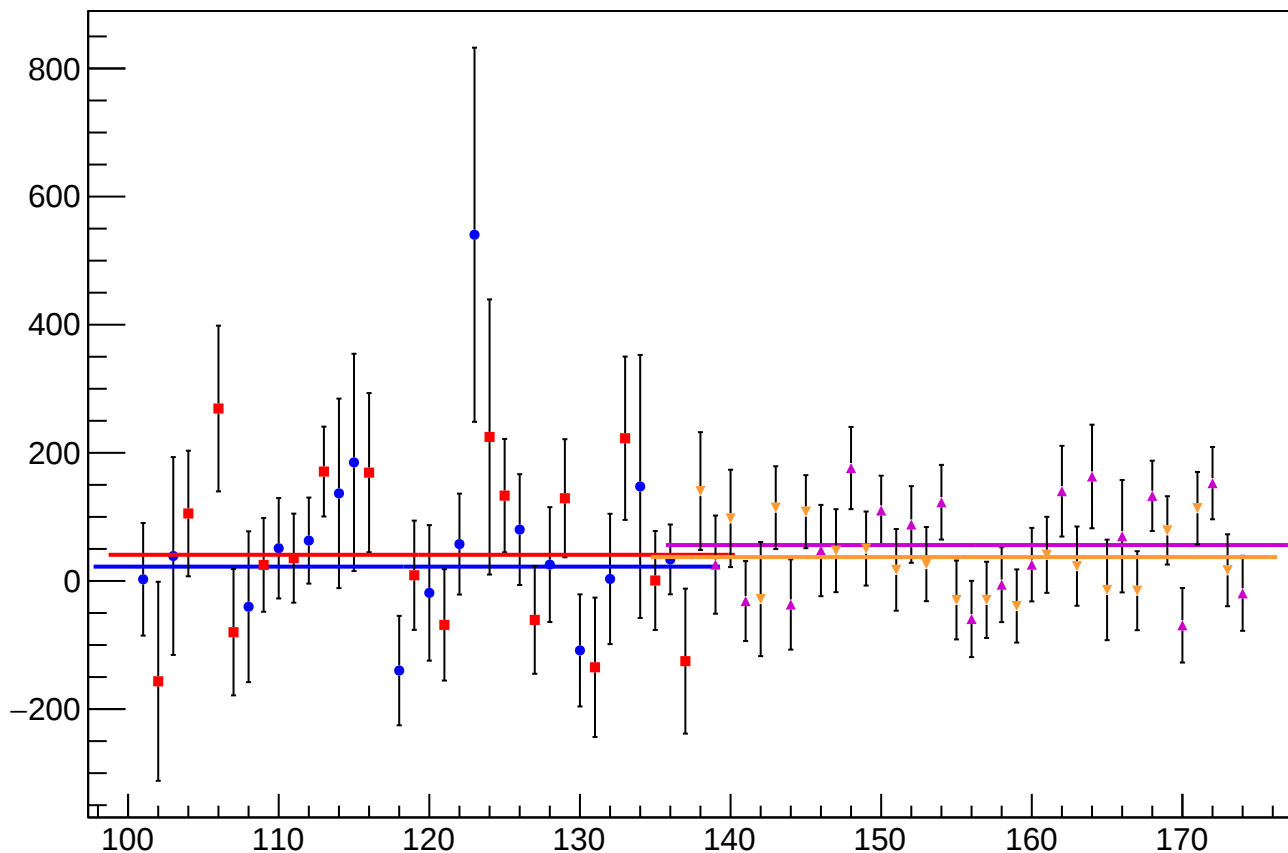
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 126.802+/-0.024  $\chi^2/\text{NDF}$ :1169229.1/17

Out: 129.226+/-0.025  $\chi^2/\text{NDF}$ :1453116.7/18

All: 127.995+/-0.017  $\chi^2/\text{NDF}$ : 2627188.3/36

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 22.361 $\pm$ 22.625  $\chi^2$ /NDF: 12.6/16

Left Out: 37.291 $\pm$ 14.355  $\chi^2$ /NDF:13.6/18

Right Out: 40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

Left In: 56.042 $\pm$ 14.784  $\chi^2$ /NDF:29.5/17

Left: 46.391 $\pm$ 10.299  $\chi^2$ /NDF: 43.9/36

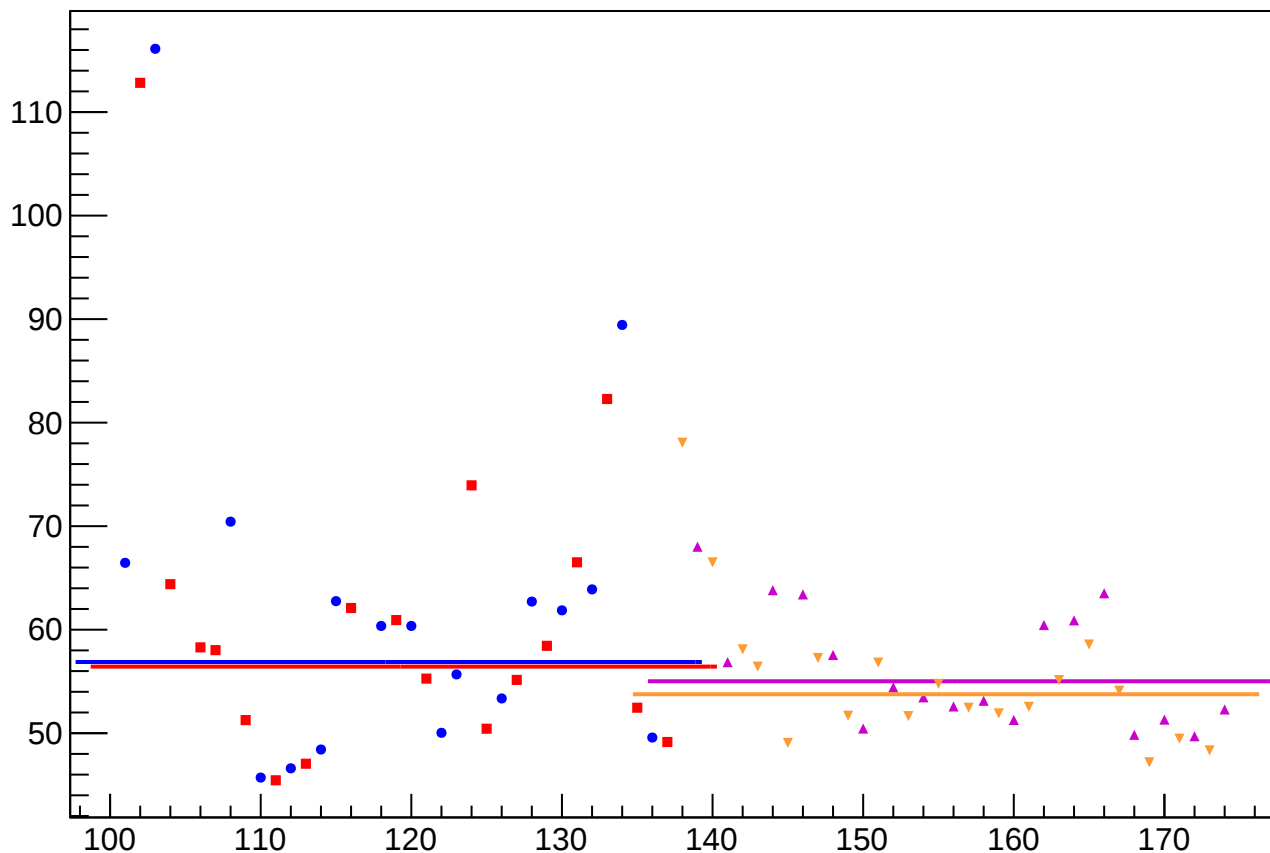
Right: 31.816 $\pm$ 15.823  $\chi^2$ /NDF: 37.1/34

In: 45.964 $\pm$ 12.376  $\chi^2$ /NDF:43.7/34

Out: 38.350 $\pm$ 12.044  $\chi^2$ /NDF:37.8/36

All: 42.054 $\pm$ 8.631  $\chi^2$ /NDF: 81.7/71

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 56.879 $\pm$ 0.016  $\chi^2$ /NDF: 575487.1/16

Left Out: 53.763 $\pm$ 0.010  $\chi^2$ /NDF: 306796.9/18

Right Out: 56.434 $\pm$ 0.016  $\chi^2$ /NDF: 520456.9/17

Left In: 55.018 $\pm$ 0.010  $\chi^2$ /NDF: 240111.0/17

Left: 54.372 $\pm$ 0.007  $\chi^2$ /NDF: 554331.4/36

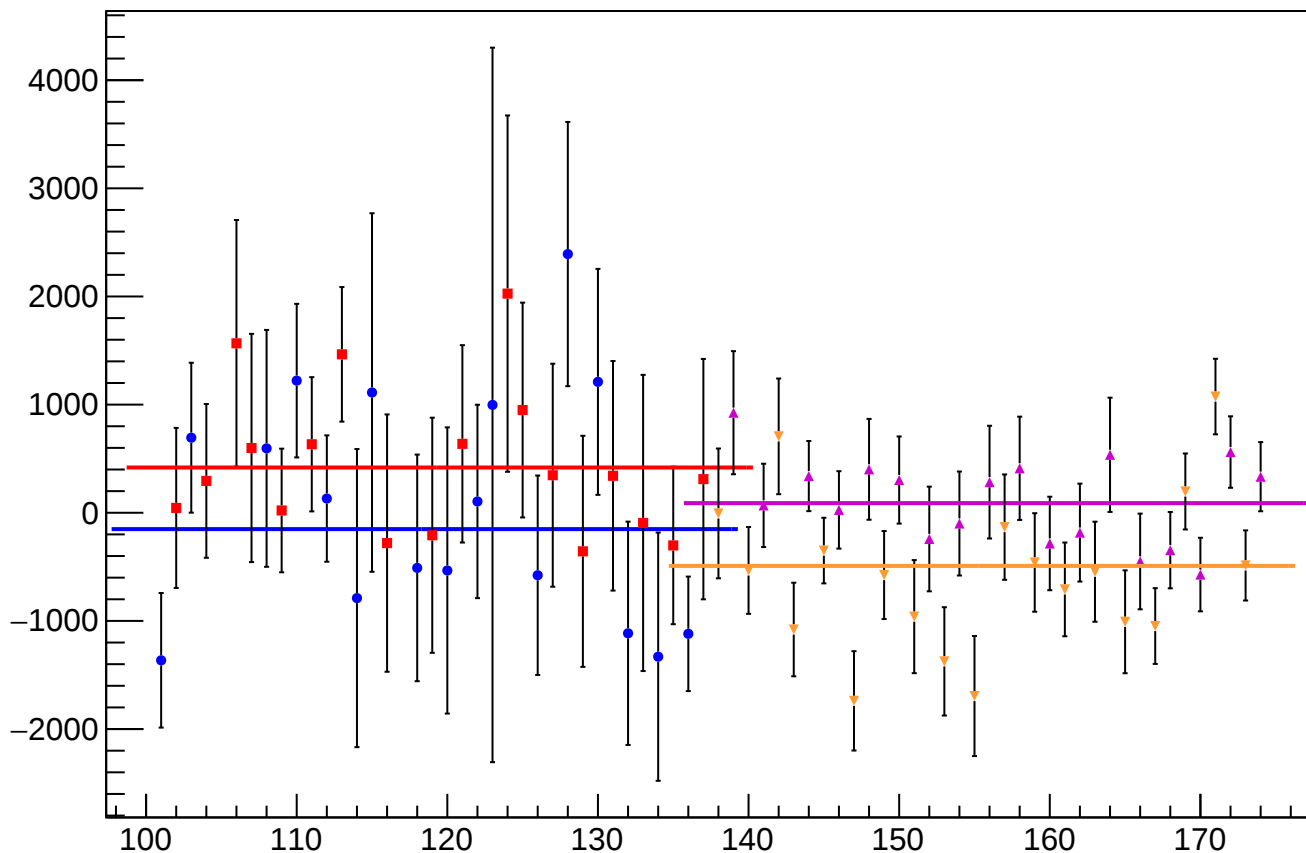
Right: 56.652 $\pm$ 0.011  $\chi^2$ /NDF: 1096338.8/34

In: 55.575 $\pm$ 0.009  $\chi^2$ /NDF: 825077.7/34

Out: 54.553 $\pm$ 0.009  $\chi^2$ /NDF: 847758.0/36

All: 55.050 $\pm$ 0.006  $\chi^2$ /NDF: 1679831.5/71

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -151.194 $\pm$ 212.448  $\chi^2$ /NDF: 22.4/16

Left Out: -491.389 $\pm$ 96.326  $\chi^2$ /NDF:52.2/18

Right Out: 418.554 $\pm$ 205.061  $\chi^2$ /NDF: 8.4/17

Left In: 89.272 $\pm$ 95.741  $\chi^2$ /NDF:16.0/17

Left: -199.289 $\pm$ 67.905  $\chi^2$ /NDF: 86.5/36

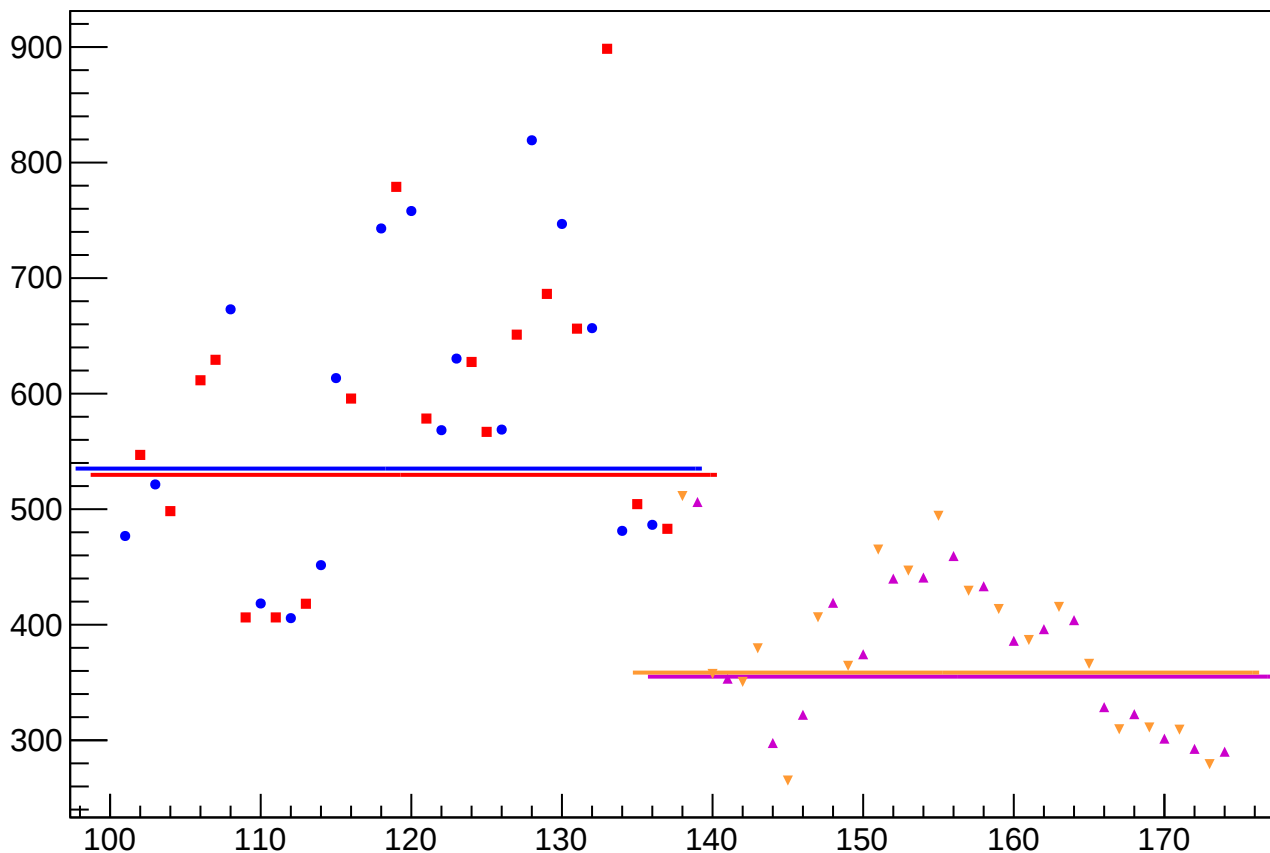
Right: 143.757 $\pm$ 147.542  $\chi^2$ /NDF: 34.6/34

In: 48.680 $\pm$ 87.286  $\chi^2$ /NDF:39.5/34

Out: -326.899 $\pm$ 87.186  $\chi^2$ /NDF:76.8/36

All: -139.326 $\pm$ 61.685  $\chi^2$ /NDF: 125.5/71

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 535.137+/-0.150  $\chi^2/\text{NDF}$ : 596084.8/16

Left Out: 358.568+/-0.068  $\chi^2/\text{NDF}$ : 957292.0/18

Right Out: 529.720+/-0.145  $\chi^2/\text{NDF}$ : 646725.7/17

Left In: 355.079+/-0.068  $\chi^2/\text{NDF}$ : 794043.2/17

Left: 356.813+/-0.048  $\chi^2/\text{NDF}$ : 1752654.9/36

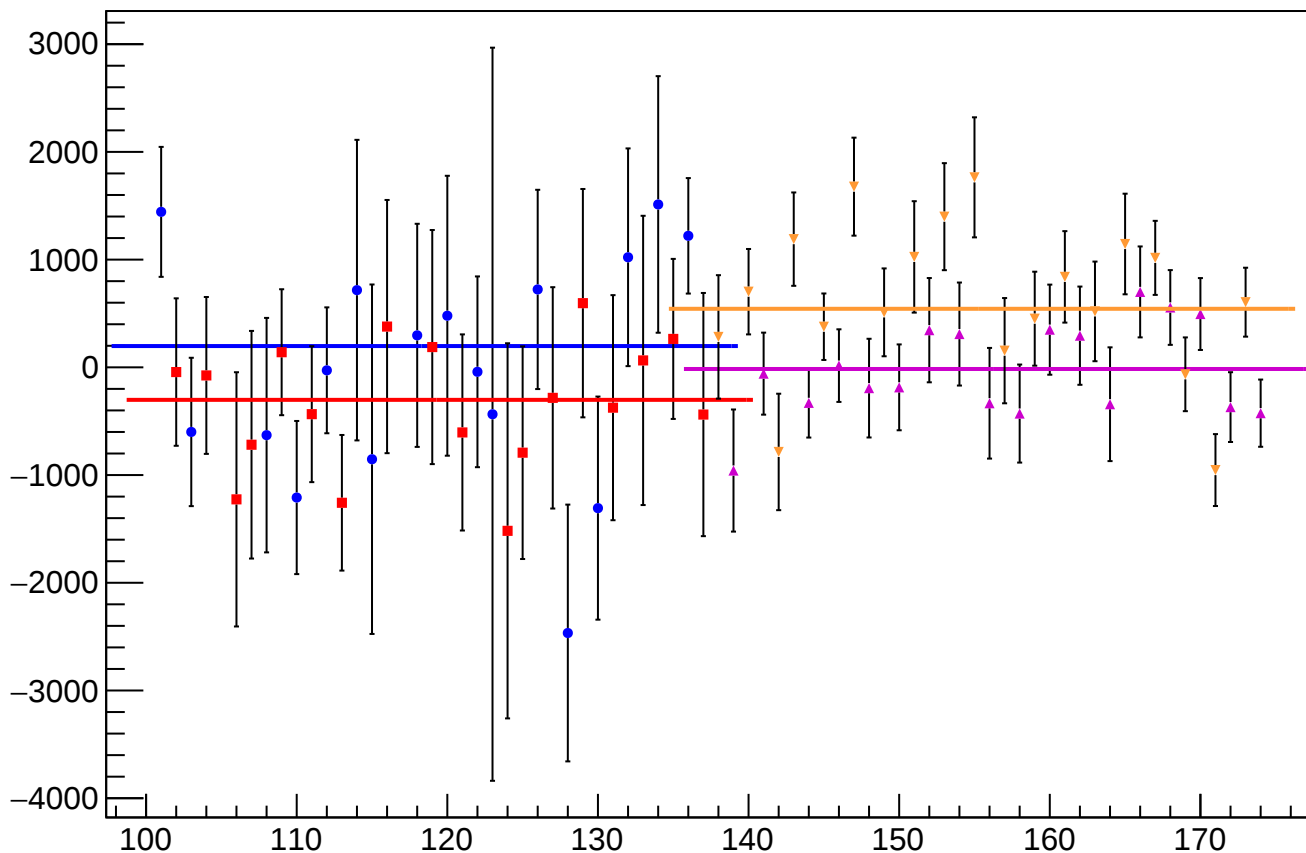
Right: 532.333+/-0.104  $\chi^2/\text{NDF}$ : 1243483.8/34

In: 385.474+/-0.062  $\chi^2/\text{NDF}$ : 2584263.0/34

Out: 389.507+/-0.062  $\chi^2/\text{NDF}$ : 2745402.8/36

All: 387.493+/-0.044  $\chi^2/\text{NDF}$ : 5331802.7/71

# asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 197.561+/-211.480  $\chi^2/\text{NDF}$ : 23.9/16

Left Out: 543.456+/-95.129  $\chi^2/\text{NDF}$ :51.8/18

Right Out: -301.856+/-205.700  $\chi^2/\text{NDF}$ : 6.7/17

Left In: -15.304+/-93.827  $\chi^2/\text{NDF}$ :18.7/17

Left: 260.228+/-66.801  $\chi^2/\text{NDF}$ : 88.0/36

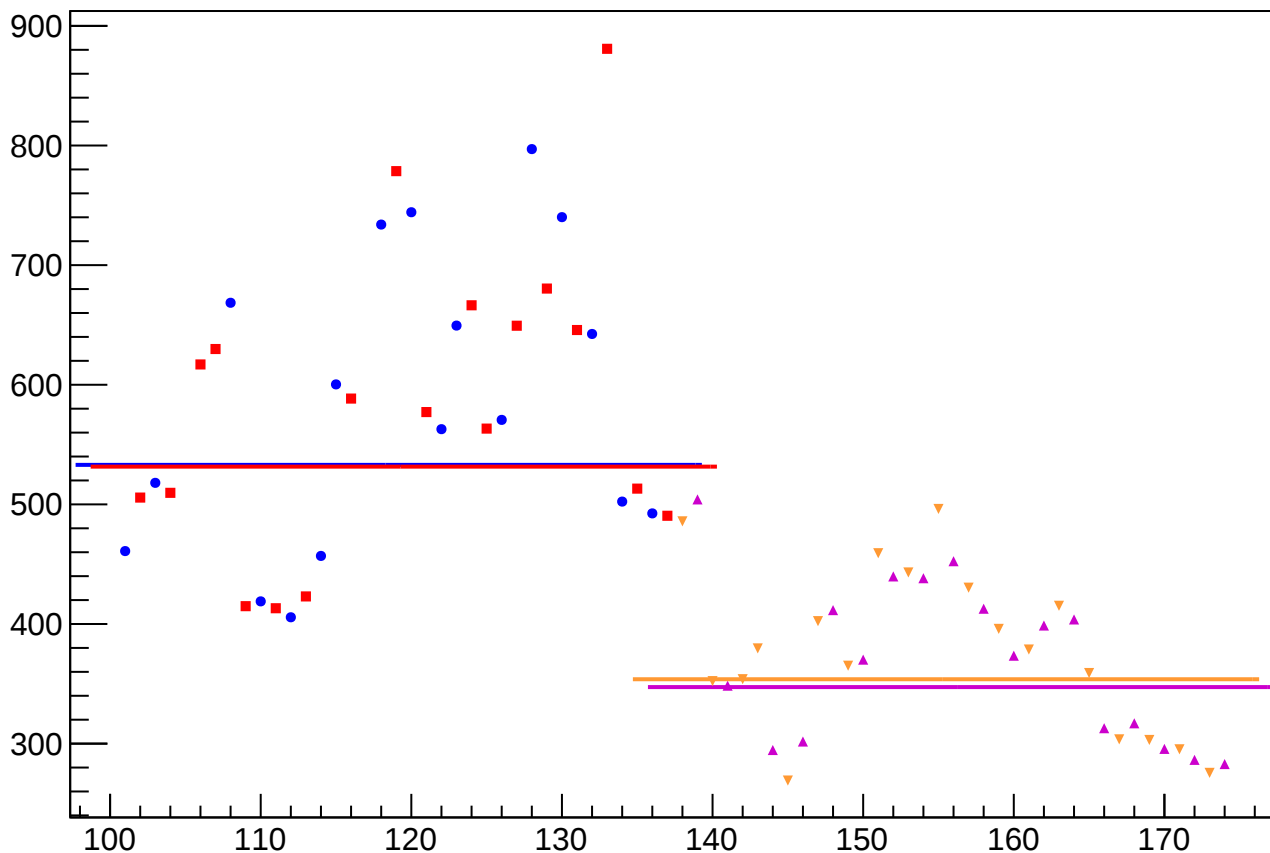
Right: -59.066+/-147.453  $\chi^2/\text{NDF}$ : 33.5/34

In: 19.706+/-85.765  $\chi^2/\text{NDF}$ :43.5/34

Out: 394.520+/-86.343  $\chi^2/\text{NDF}$ :72.4/36

All: 205.855+/-60.848  $\chi^2/\text{NDF}$ : 125.4/71

asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 533.031 $\pm$ 0.150  $\chi^2/\text{NDF}$ : 566851.1/16

Left Out: 353.820 $\pm$ 0.067  $\chi^2/\text{NDF}$ :944252.5/18

Right Out: 531.559 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 597920.9/17

Left In: 347.265 $\pm$ 0.066  $\chi^2/\text{NDF}$ :848328.8/17

Left: 350.497 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 1797395.4/36

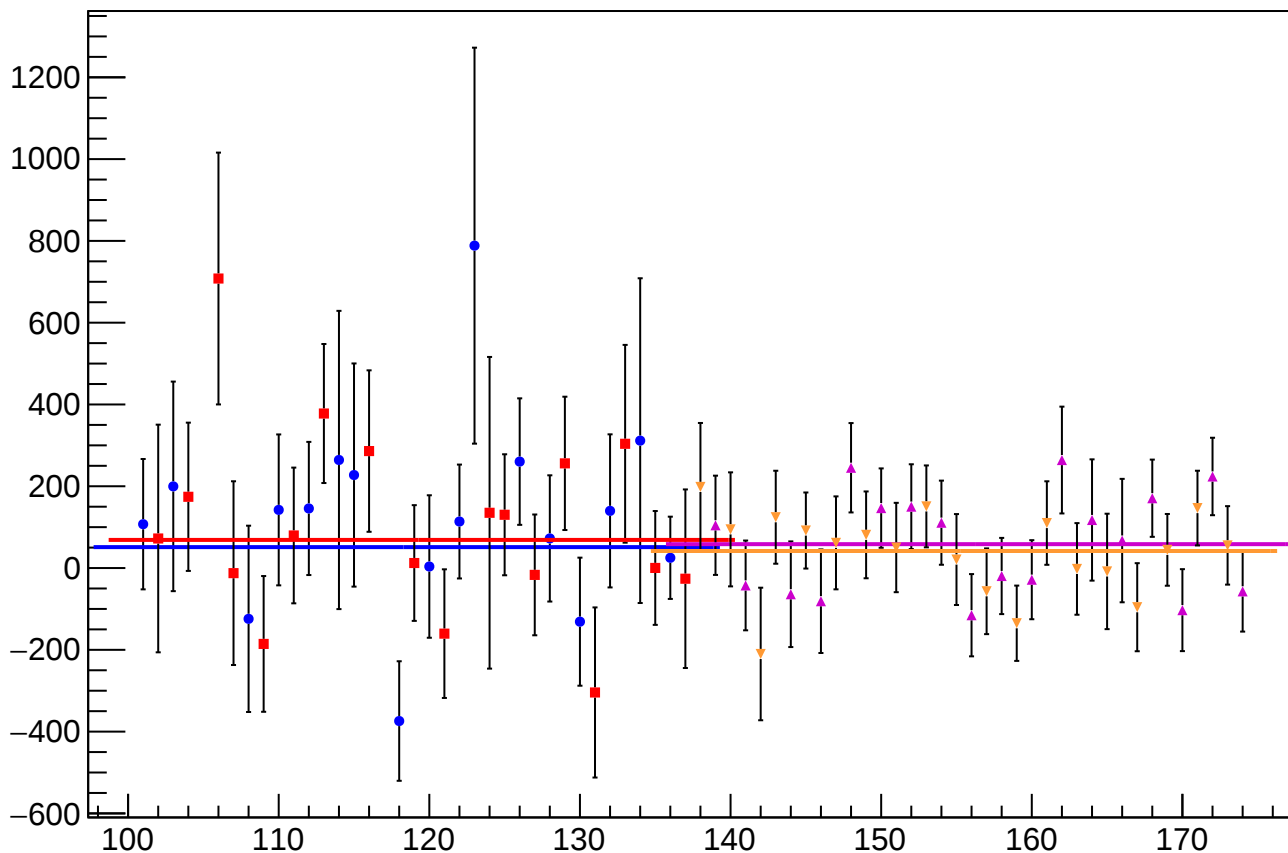
Right: 532.275 $\pm$ 0.104  $\chi^2/\text{NDF}$ : 1164821.8/34

In: 377.818 $\pm$ 0.061  $\chi^2/\text{NDF}$ :2704584.9/34

Out: 385.136 $\pm$ 0.061  $\chi^2/\text{NDF}$ :2772309.6/36

All: 381.452 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 5484127.4/71

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: 41.686 $\pm$ 24.743  $\chi^2$ /NDF:14.0/18

Right Out: 68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

Left In: 58.406 $\pm$ 25.430  $\chi^2$ /NDF:23.5/17

Left: 49.818 $\pm$ 17.734  $\chi^2$ /NDF: 37.7/36

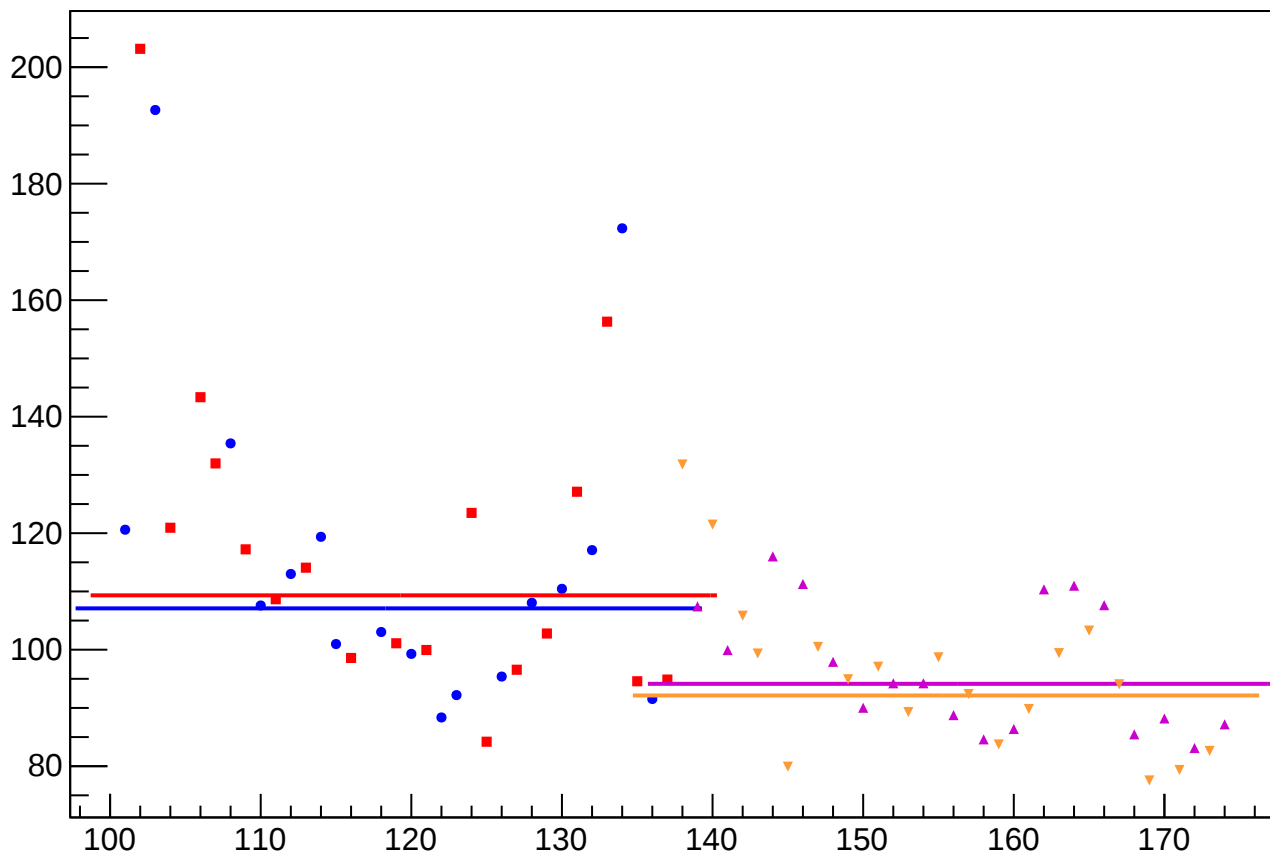
Right: 59.892 $\pm$ 30.129  $\chi^2$ /NDF: 37.8/34

In: 56.492 $\pm$ 21.810  $\chi^2$ /NDF:40.9/34

Out: 48.472 $\pm$ 21.422  $\chi^2$ /NDF:34.7/36

All: 52.410 $\pm$ 15.283  $\chi^2$ /NDF: 75.7/71

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 92.140 $\pm$ 0.017  $\chi^2$ /NDF: 452056.6/18

Right Out: 109.329 $\pm$ 0.030  $\chi^2$ /NDF: 506023.6/17

Left In: 94.141 $\pm$ 0.018  $\chi^2$ /NDF: 302678.5/17

Left: 93.113 $\pm$ 0.013  $\chi^2$ /NDF: 761093.9/36

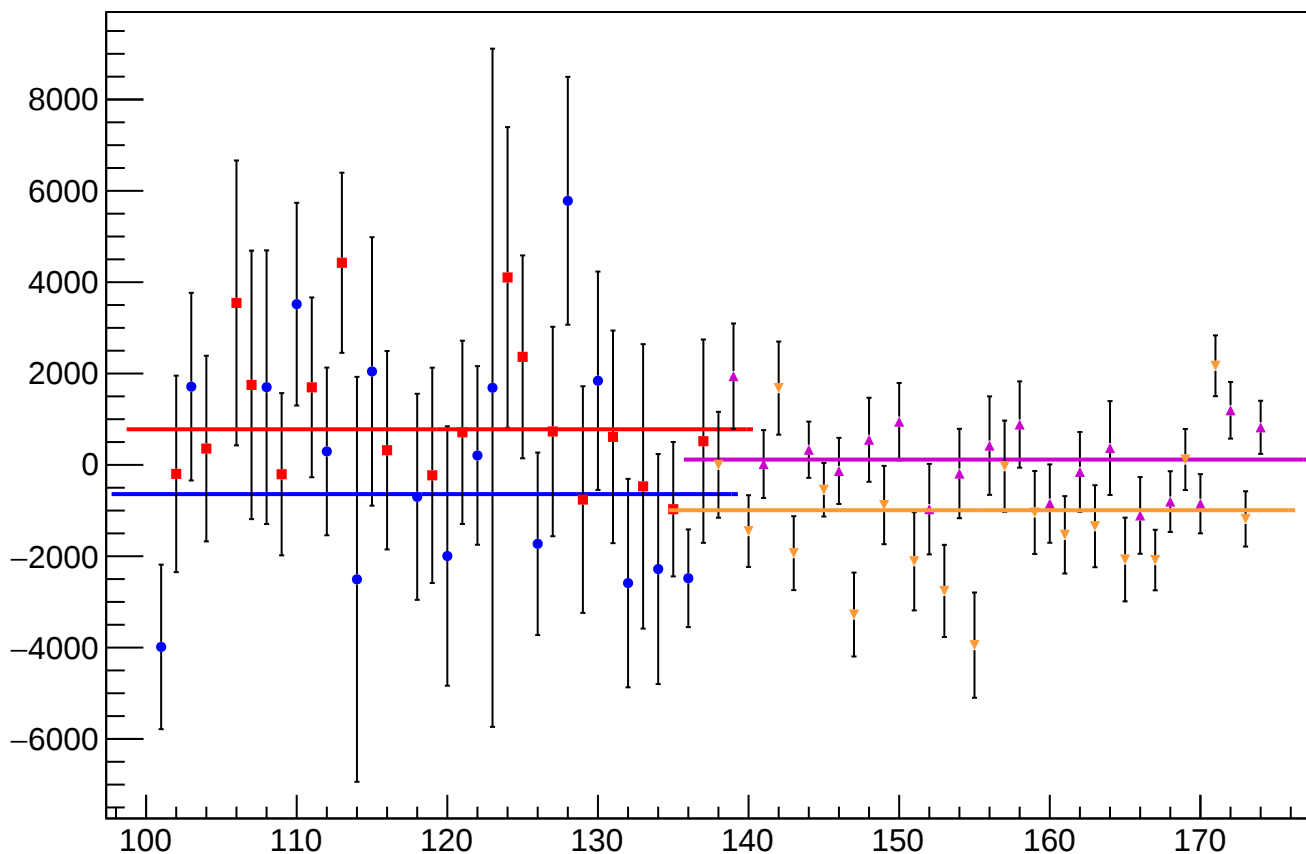
Right: 108.201 $\pm$ 0.021  $\chi^2$ /NDF: 946531.4/34

In: 97.566 $\pm$ 0.015  $\chi^2$ /NDF: 877631.1/34

Out: 96.445 $\pm$ 0.015  $\chi^2$ /NDF: 1199829.8/36

All: 96.995 $\pm$ 0.011  $\chi^2$ /NDF: 2080146.1/71

asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -639.847+/-519.248  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: -992.240+/-187.495  $\chi^2/\text{NDF}$ : 57.8/18

Right Out: 779.450+/-516.450  $\chi^2/\text{NDF}$ : 8.8/17

Left In: 116.807+/-185.830  $\chi^2/\text{NDF}$ : 18.2/17

Left: -432.770+/-131.986  $\chi^2/\text{NDF}$ : 93.6/36

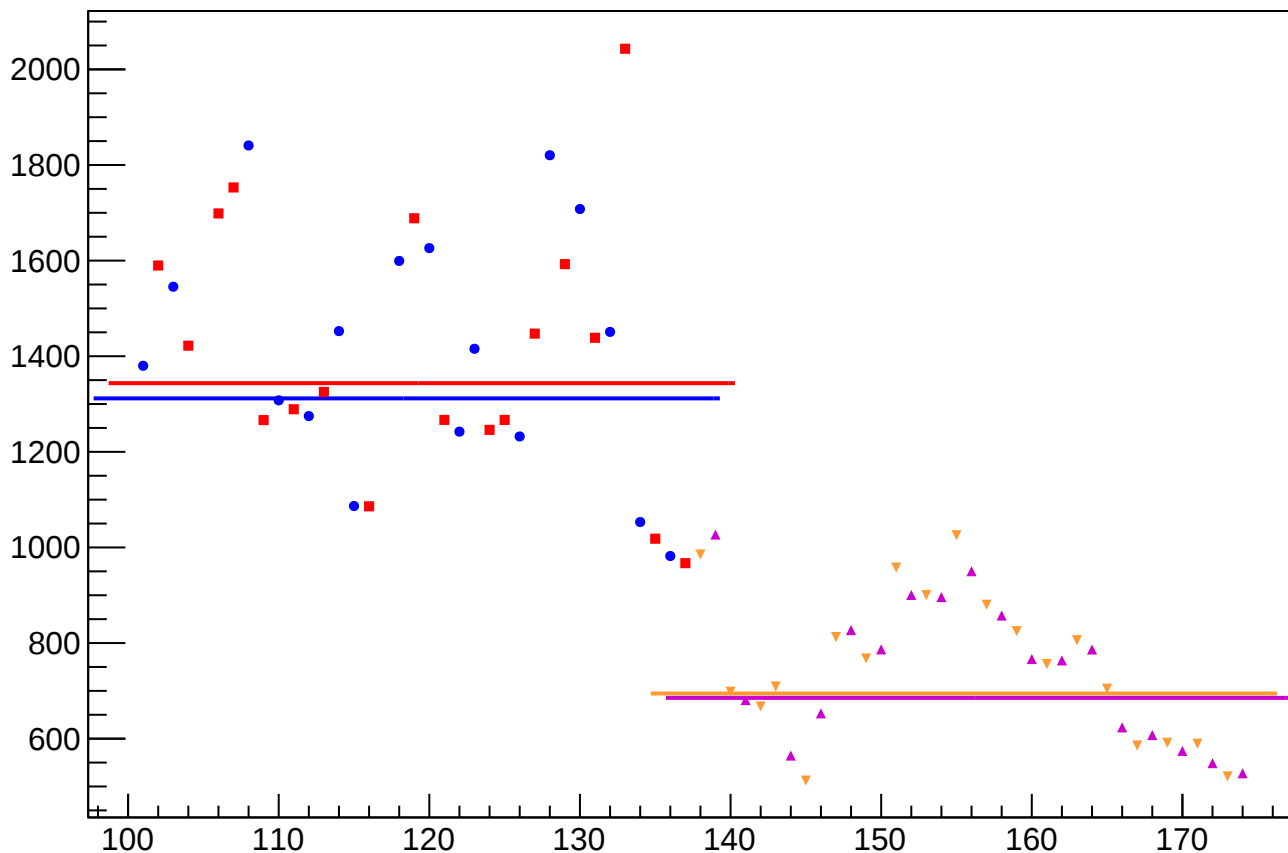
Right: 73.635+/-366.171  $\chi^2/\text{NDF}$ : 34.4/34

In: 30.898+/-174.963  $\chi^2/\text{NDF}$ : 41.8/34

Out: -785.920+/-176.240  $\chi^2/\text{NDF}$ : 77.0/36

All: -374.541+/-124.166  $\chi^2/\text{NDF}$ : 129.6/71

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1311.795+/-0.367  $\chi^2/\text{NDF}$ : 512676.0/16

Left Out: 694.512+/-0.133  $\chi^2/\text{NDF}$ : 1204042.6/18

Right Out: 1343.659+/-0.365  $\chi^2/\text{NDF}$ : 461009.9/17

Left In: 685.326+/-0.131  $\chi^2/\text{NDF}$ : 1101351.8/17

Left: 689.878+/-0.093  $\chi^2/\text{NDF}$ : 2307815.9/36

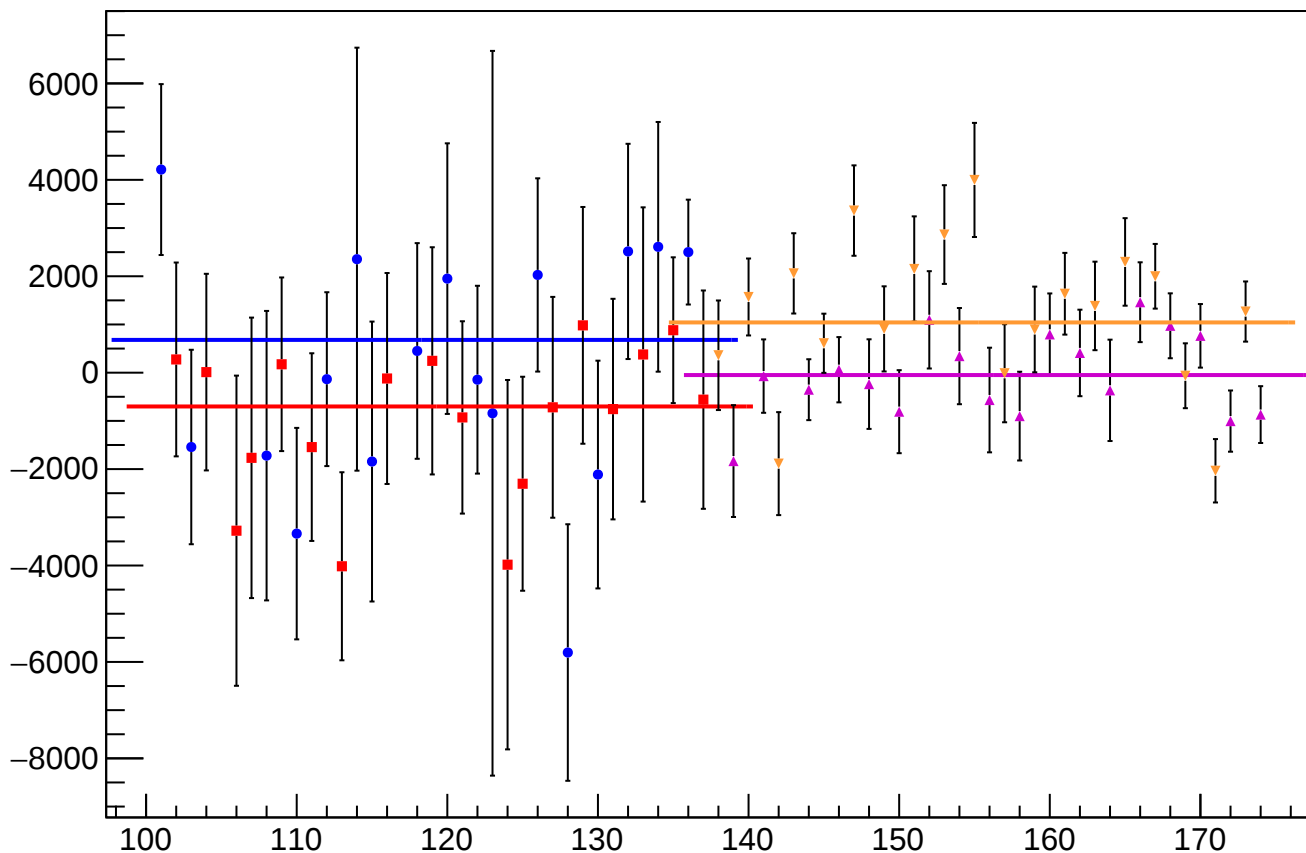
Right: 1327.813+/-0.259  $\chi^2/\text{NDF}$ : 977472.0/34

In: 756.454+/-0.124  $\chi^2/\text{NDF}$ : 4194737.7/34

Out: 770.107+/-0.125  $\chi^2/\text{NDF}$ : 4456881.4/36

All: 763.231+/-0.088  $\chi^2/\text{NDF}$ : 8657664.0/71

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 679.925+/-517.508  $\chi^2/\text{NDF}$ : 22.6/16

Left Out: 1042.301+/-190.407  $\chi^2/\text{NDF}$ : 57.3/18

Right Out: -700.930+/-517.319  $\chi^2/\text{NDF}$ : 7.6/17

Left In: -49.221+/-187.186  $\chi^2/\text{NDF}$ : 18.7/17

Left: 487.229+/-133.485  $\chi^2/\text{NDF}$ : 92.7/36

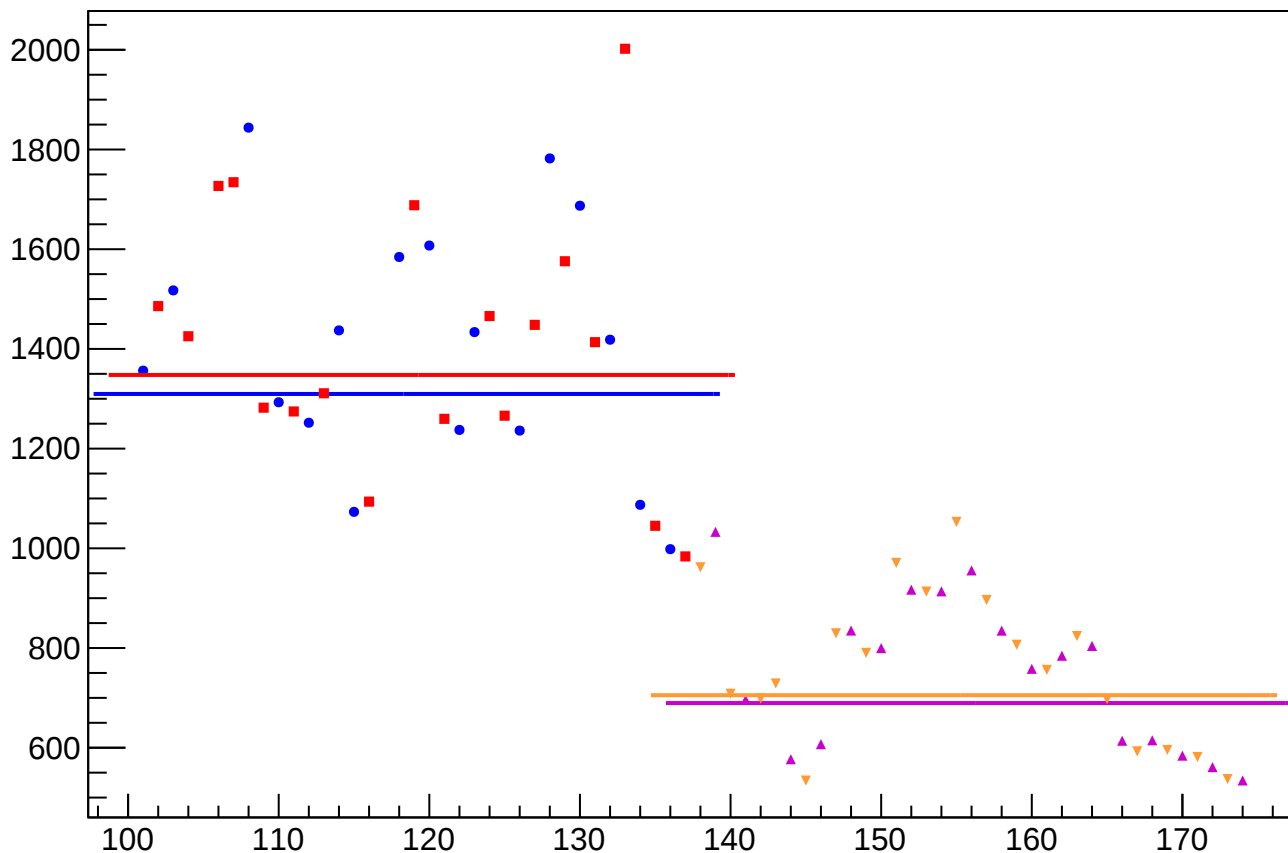
Right: -10.753+/-365.867  $\chi^2/\text{NDF}$ : 33.8/34

In: 35.138+/-176.025  $\chi^2/\text{NDF}$ : 43.0/34

Out: 834.318+/-178.688  $\chi^2/\text{NDF}$ : 74.9/36

All: 428.728+/-125.399  $\chi^2/\text{NDF}$ : 128.1/71

asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1309.654 $\pm$ 0.366  $\chi^2$ /NDF: 459314.8/16

Left Out: 705.369 $\pm$ 0.135  $\chi^2$ /NDF: 1149463.8/18

Right Out: 1347.768 $\pm$ 0.366  $\chi^2$ /NDF: 405345.0/17

Left In: 689.647 $\pm$ 0.132  $\chi^2$ /NDF: 1095611.5/17

Left: 697.374 $\pm$ 0.094  $\chi^2$ /NDF: 2252009.0/36

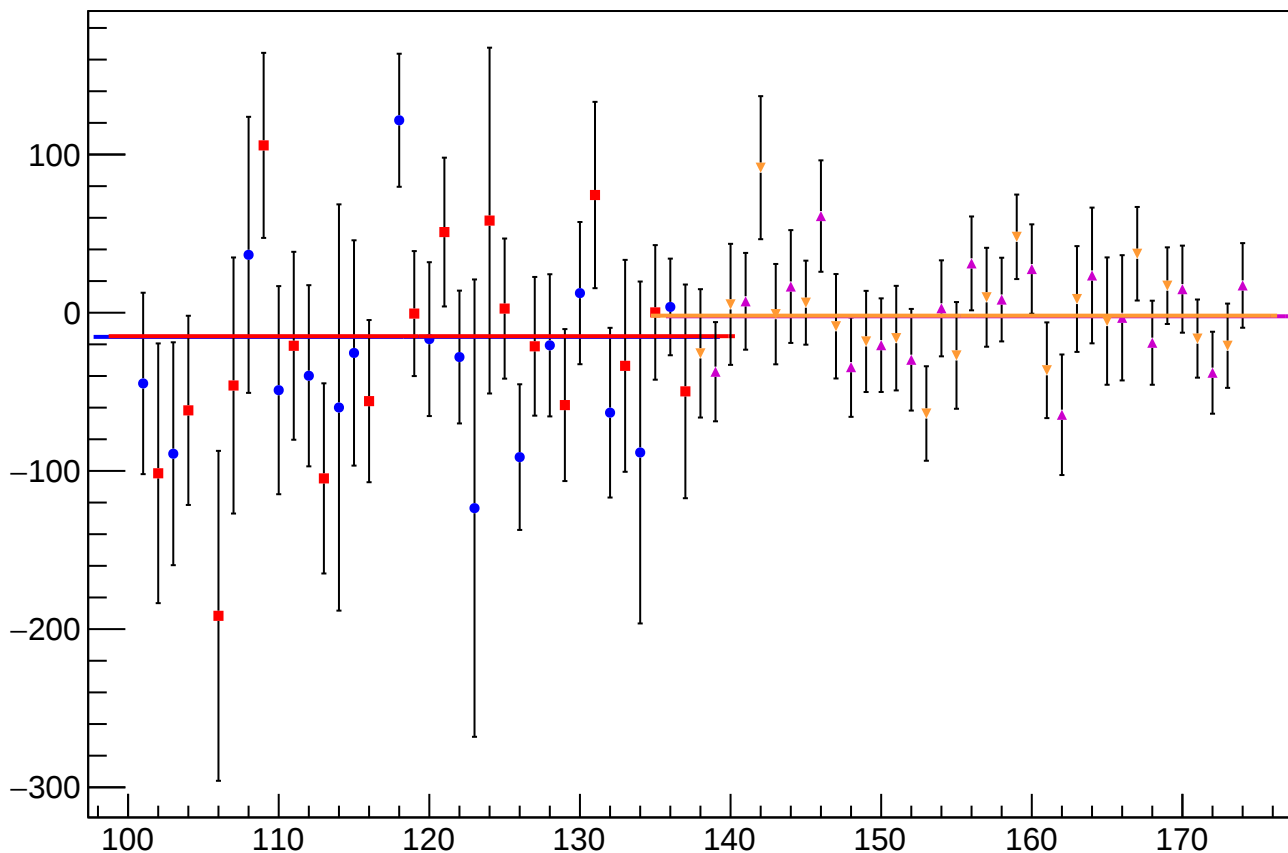
Right: 1328.718 $\pm$ 0.259  $\chi^2$ /NDF: 870085.9/34

In: 761.379 $\pm$ 0.124  $\chi^2$ /NDF: 4093508.6/34

Out: 782.013 $\pm$ 0.126  $\chi^2$ /NDF: 4270909.3/36

All: 771.541 $\pm$ 0.089  $\chi^2$ /NDF: 8377952.1/71

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:  $-1.855 \pm 7.083$   $\chi^2/\text{NDF}$ : 18.3/18

Right Out:  $-14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

Left In:  $-2.262 \pm 7.216$   $\chi^2/\text{NDF}$ : 15.8/17

Left:  $-2.055 \pm 5.055$   $\chi^2/\text{NDF}$ : 34.2/36

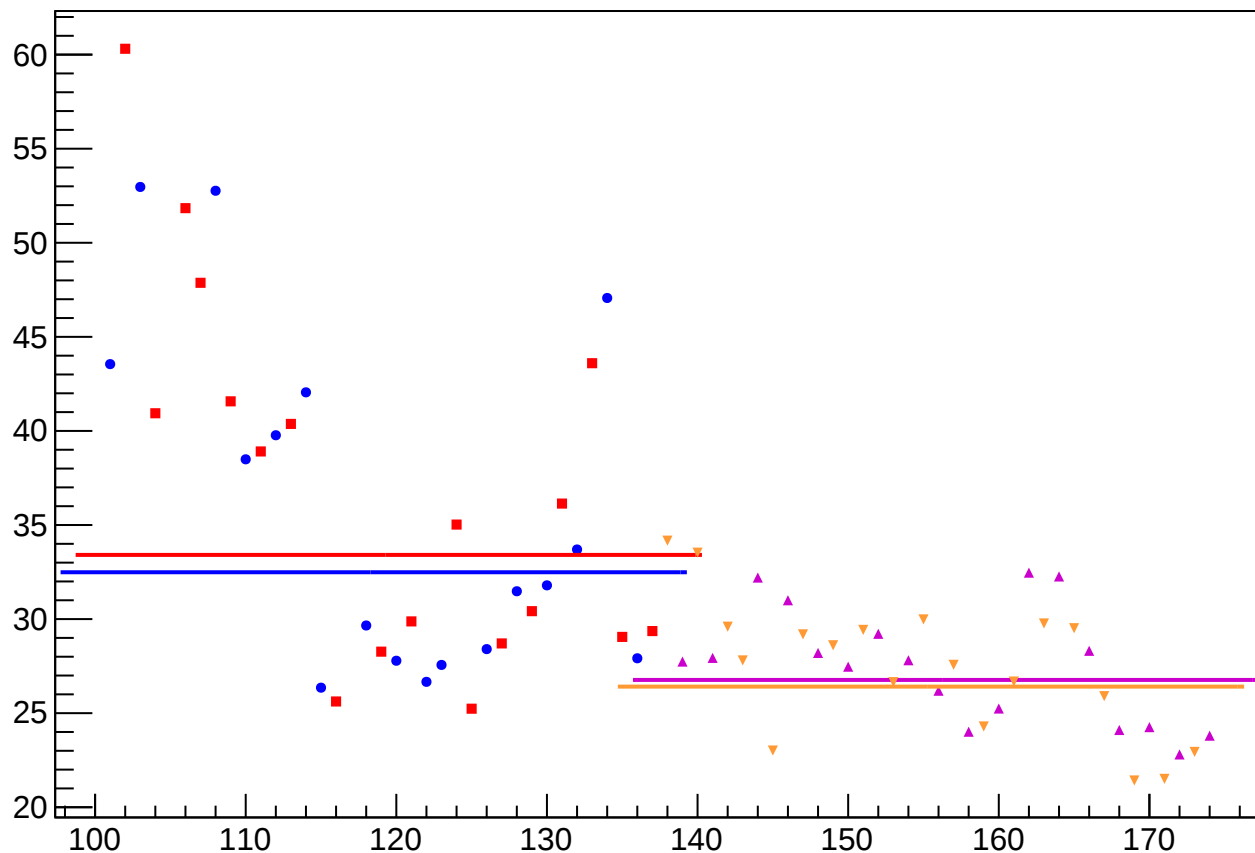
Right:  $-15.063 \pm 9.193$   $\chi^2/\text{NDF}$ : 36.5/34

In:  $-5.362 \pm 6.299$   $\chi^2/\text{NDF}$ : 34.9/34

Out:  $-4.793 \pm 6.231$   $\chi^2/\text{NDF}$ : 37.3/36

All:  $-5.075 \pm 4.430$   $\chi^2/\text{NDF}$ : 72.2/71

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 32.489+/-0.009  $\chi^2/\text{NDF}$ : 594480.9/16

Left Out: 26.411+/-0.005  $\chi^2/\text{NDF}$ : 497394.6/18

Right Out: 33.411+/-0.009  $\chi^2/\text{NDF}$ : 725189.8/17

Left In: 26.766+/-0.005  $\chi^2/\text{NDF}$ : 316561.0/17

Left: 26.585+/-0.004  $\chi^2/\text{NDF}$ : 816426.9/36

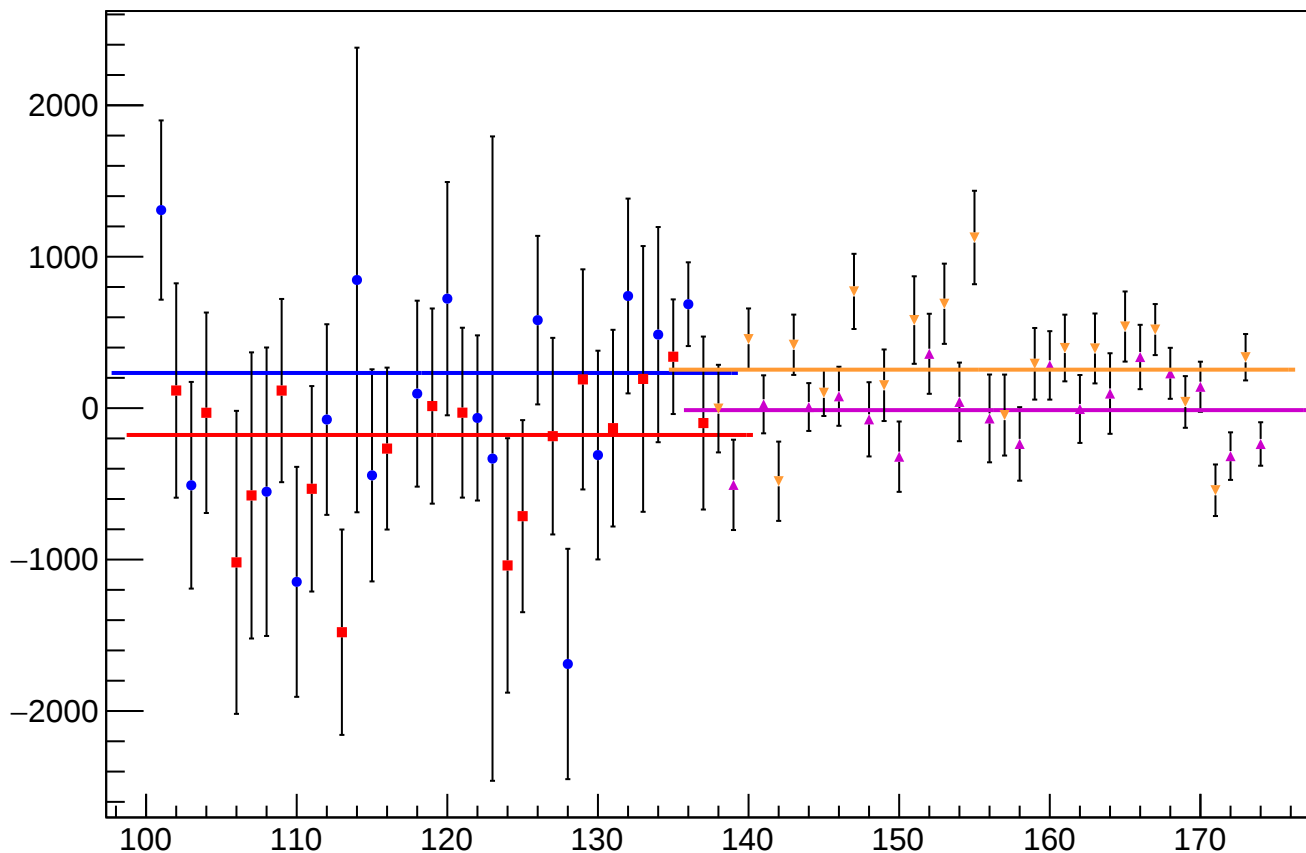
Right: 32.943+/-0.007  $\chi^2/\text{NDF}$ : 1324698.1/34

In: 28.129+/-0.004  $\chi^2/\text{NDF}$ : 1210589.4/34

Out: 27.995+/-0.004  $\chi^2/\text{NDF}$ : 1664623.7/36

All: 28.061+/-0.003  $\chi^2/\text{NDF}$ : 2875671.2/71

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 232.332 $\pm$ 148.607  $\chi^2$ /NDF: 21.5/16

Left Out: 254.110 $\pm$ 48.442  $\chi^2$ /NDF:57.7/18

Right Out: -177.151 $\pm$ 150.003  $\chi^2$ /NDF: 9.6/17

Left In: -13.074 $\pm$ 47.967  $\chi^2$ /NDF:21.5/17

Left: 119.200 $\pm$ 34.084  $\chi^2$ /NDF: 94.5/36

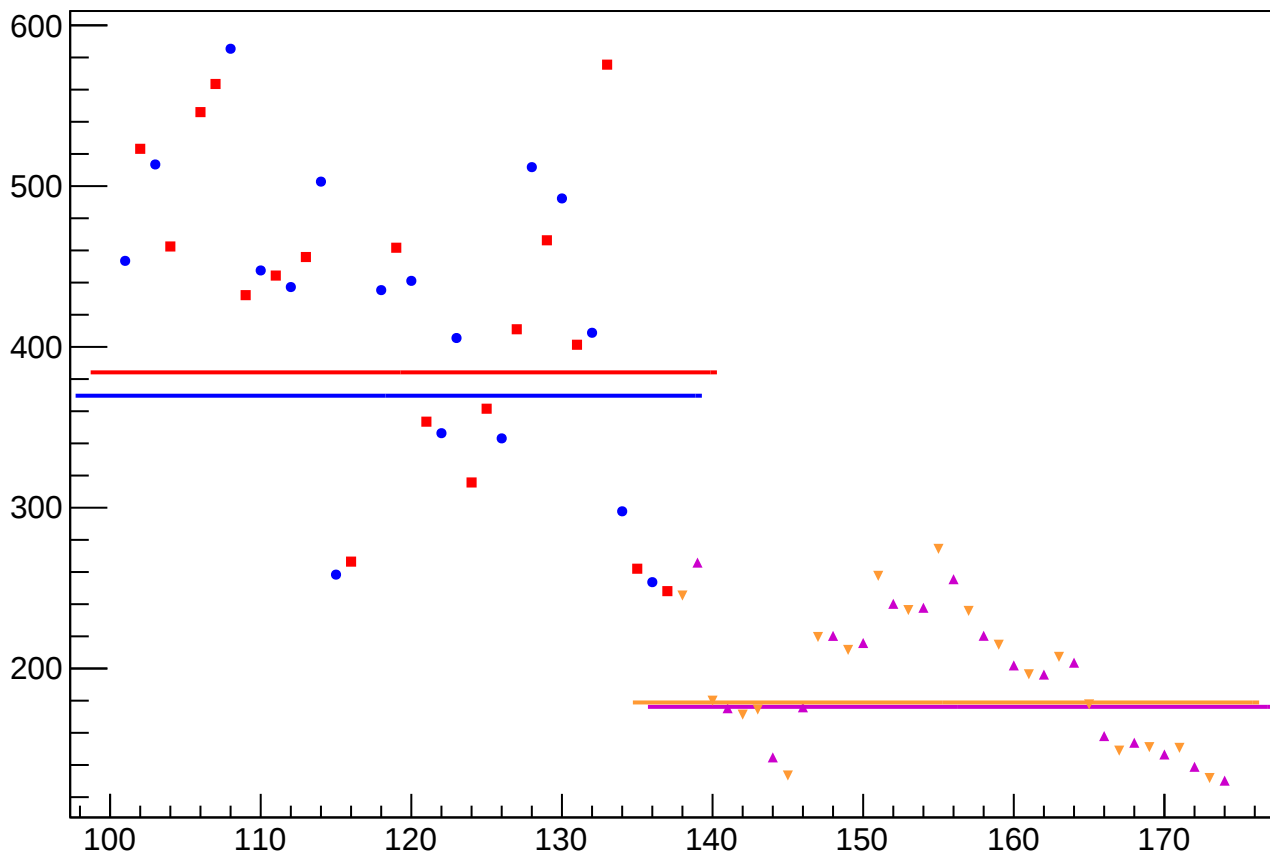
Right: 29.504 $\pm$ 105.571  $\chi^2$ /NDF: 34.8/34

In: 10.081 $\pm$ 45.648  $\chi^2$ /NDF:45.4/34

Out: 213.381 $\pm$ 46.098  $\chi^2$ /NDF:74.7/36

All: 110.733 $\pm$ 32.436  $\chi^2$ /NDF: 129.9/71

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: 178.880 $\pm$ 0.034  $\chi^2$ /NDF:1349647.5/18

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

Left In: 176.159 $\pm$ 0.034  $\chi^2$ /NDF:1324167.8/17

Left: 177.506 $\pm$ 0.024  $\chi^2$ /NDF: 2677001.0/36

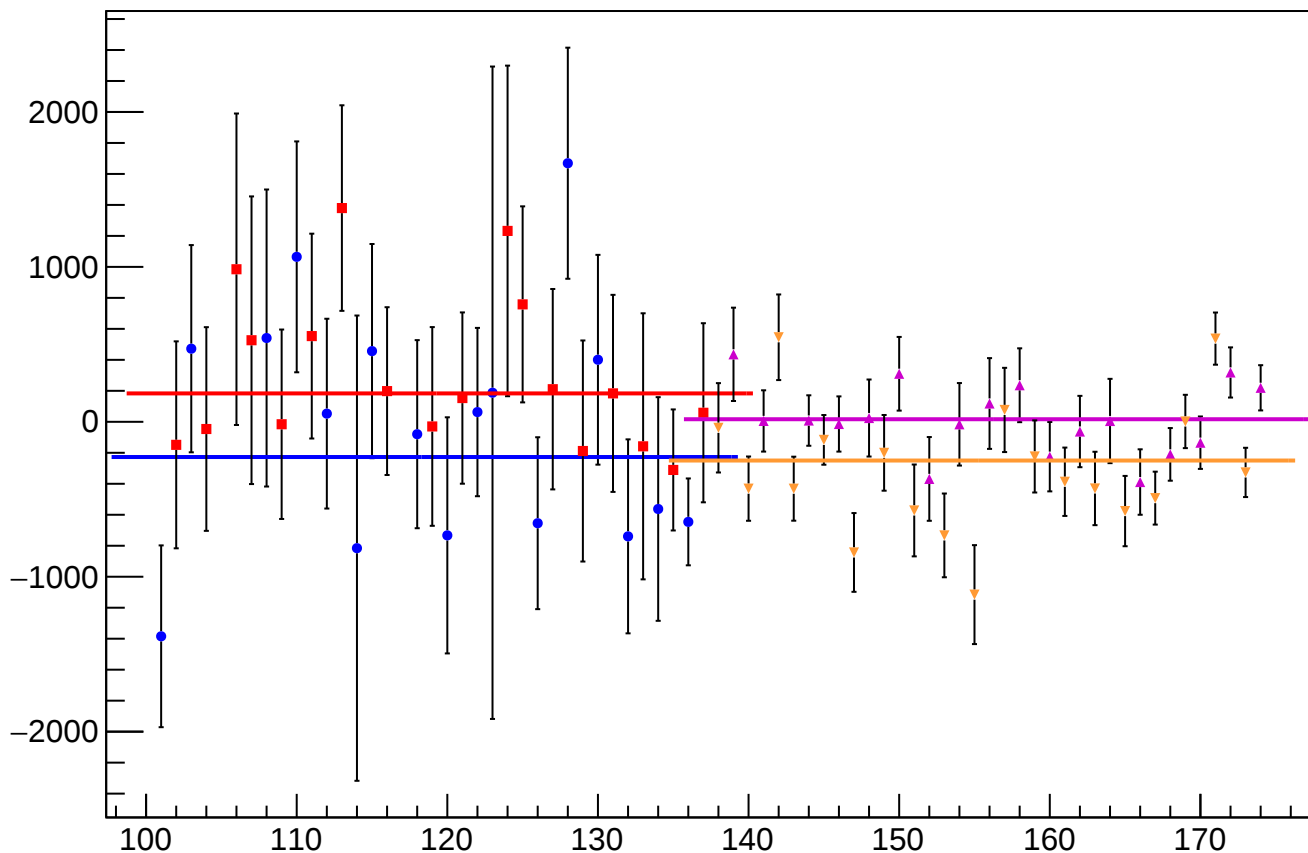
Right: 376.842 $\pm$ 0.075  $\chi^2$ /NDF: 1787228.1/34

In: 194.416 $\pm$ 0.032  $\chi^2$ /NDF:5297579.1/34

Out: 198.268 $\pm$ 0.033  $\chi^2$ /NDF:5616884.4/36

All: 196.323 $\pm$ 0.023  $\chi^2$ /NDF: 10921515.7/73

asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}: 21.8/16$

Left Out:  $-249.900 \pm 49.363$   $\chi^2/\text{NDF}: 59.0/18$

Right Out:  $183.318 \pm 150.486$   $\chi^2/\text{NDF}: 8.8/17$

Left In:  $16.669 \pm 48.449$   $\chi^2/\text{NDF}: 19.5/17$

Left:  $-114.127 \pm 34.577$   $\chi^2/\text{NDF}: 93.3/36$

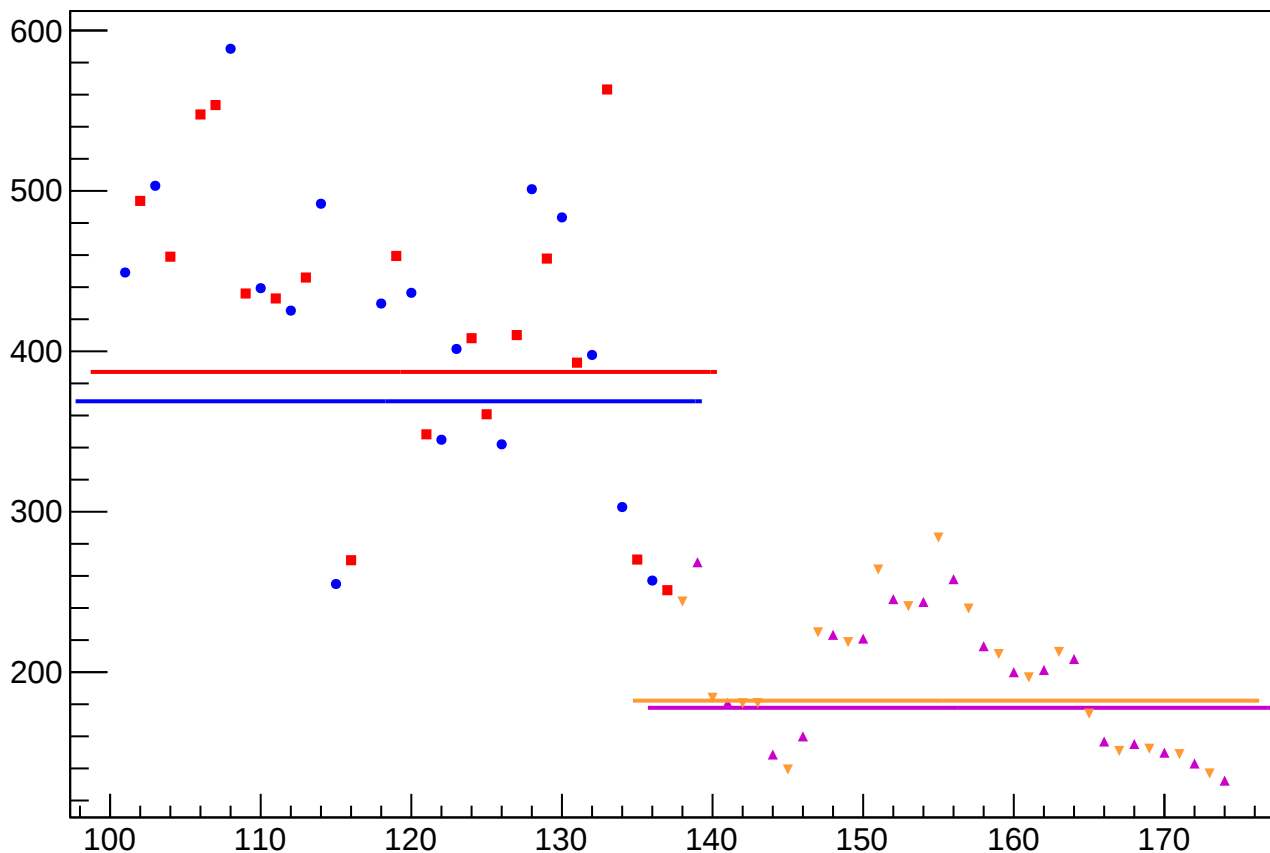
Right:  $-25.507 \pm 105.492$   $\chi^2/\text{NDF}: 34.4/34$

In:  $-6.966 \pm 46.043$   $\chi^2/\text{NDF}: 43.8/34$

Out:  $-207.815 \pm 46.904$   $\chi^2/\text{NDF}: 75.3/36$

All:  $-105.530 \pm 32.857$   $\chi^2/\text{NDF}: 128.4/71$

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In:  $368.864 \pm 0.105$   $\chi^2/\text{NDF}: 829732.0/16$

Left Out:  $182.243 \pm 0.035$   $\chi^2/\text{NDF}: 1319386.9/18$

Right Out:  $387.165 \pm 0.106$   $\chi^2/\text{NDF}: 758108.0/17$

Left In:  $177.792 \pm 0.034$   $\chi^2/\text{NDF}: 1309685.1/17$

Left:  $179.976 \pm 0.024$   $\chi^2/\text{NDF}: 2637352.4/36$

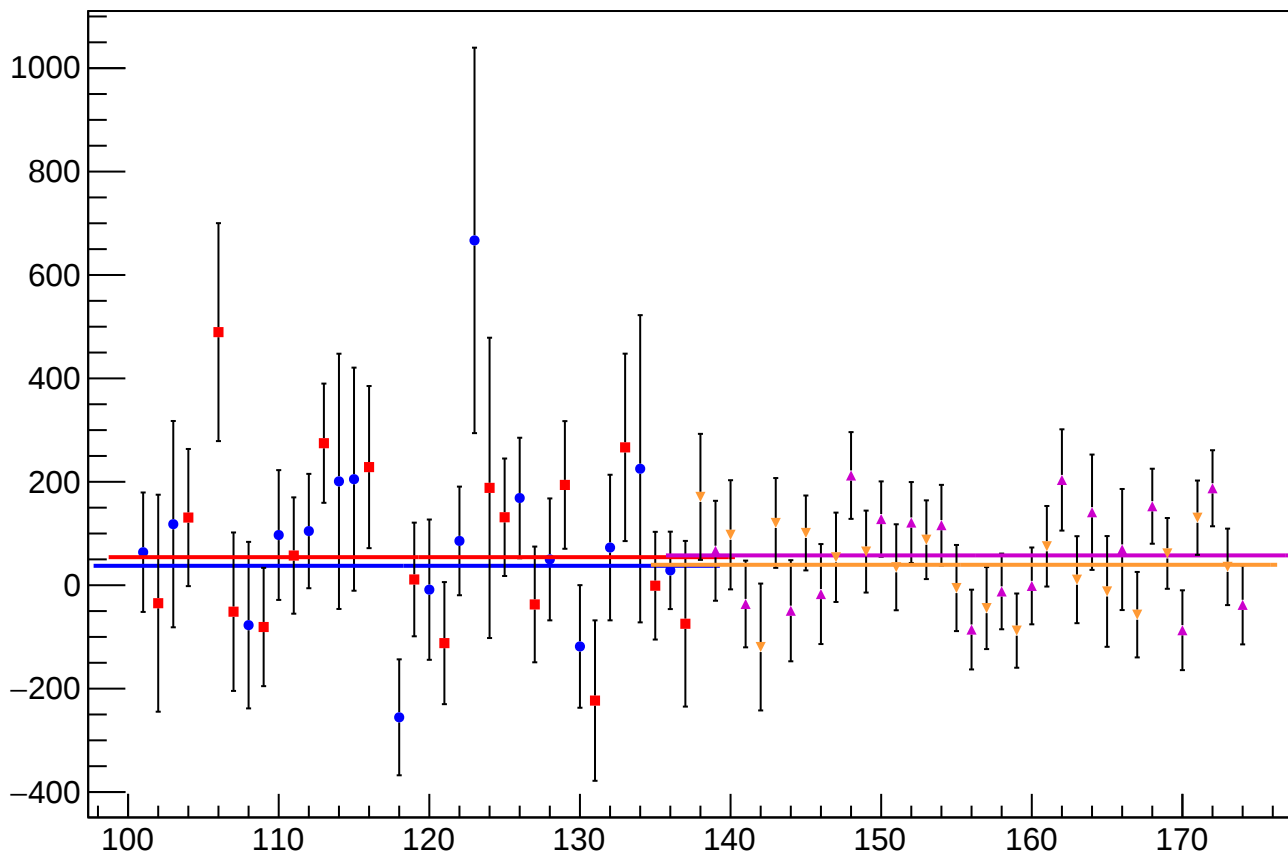
Right:  $377.857 \pm 0.075$   $\chi^2/\text{NDF}: 1602884.1/34$

In:  $196.304 \pm 0.033$   $\chi^2/\text{NDF}: 5153079.4/34$

Out:  $202.150 \pm 0.033$   $\chi^2/\text{NDF}: 5425851.8/36$

All:  $199.173 \pm 0.023$   $\chi^2/\text{NDF}: 10594753.9/73$

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: 39.496 $\pm$ 18.953  $\chi^2$ /NDF:13.5/18

Right Out: 54.274 $\pm$ 31.489  $\chi^2$ /NDF: 21.8/17

Left In: 57.685 $\pm$ 19.512  $\chi^2$ /NDF:26.3/17

Left: 48.326 $\pm$ 13.595  $\chi^2$ /NDF: 40.2/36

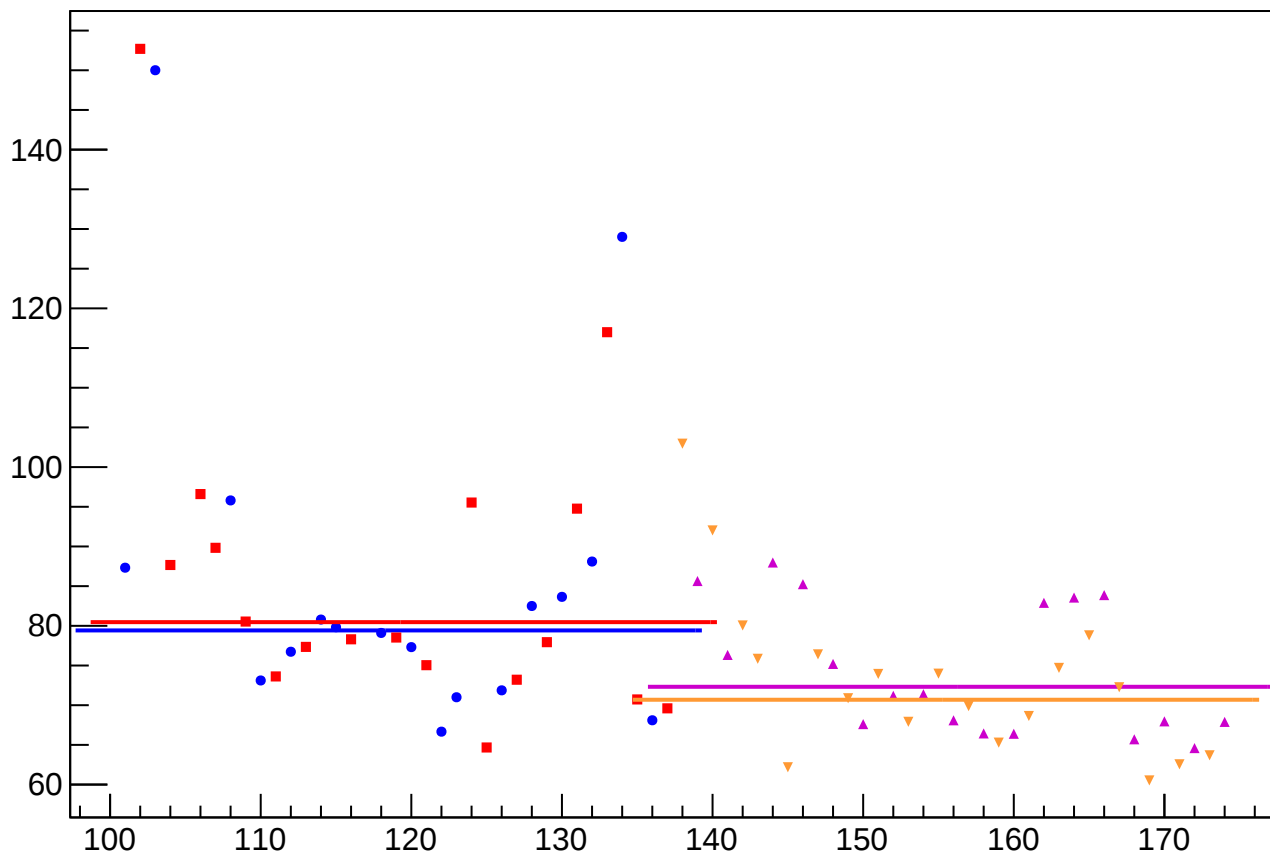
Right: 45.897 $\pm$ 22.256  $\chi^2$ /NDF: 37.8/34

In: 52.087 $\pm$ 16.582  $\chi^2$ /NDF:42.4/34

Out: 43.426 $\pm$ 16.239  $\chi^2$ /NDF:35.4/36

All: 47.666 $\pm$ 11.602  $\chi^2$ /NDF: 78.0/71

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: 70.687 $\pm$ 0.013  $\chi^2$ /NDF: 403047.1/18

Right Out: 80.465 $\pm$ 0.022  $\chi^2$ /NDF: 454376.0/17

Left In: 72.320 $\pm$ 0.014  $\chi^2$ /NDF: 287498.6/17

Left: 71.480 $\pm$ 0.010  $\chi^2$ /NDF: 697756.6/36

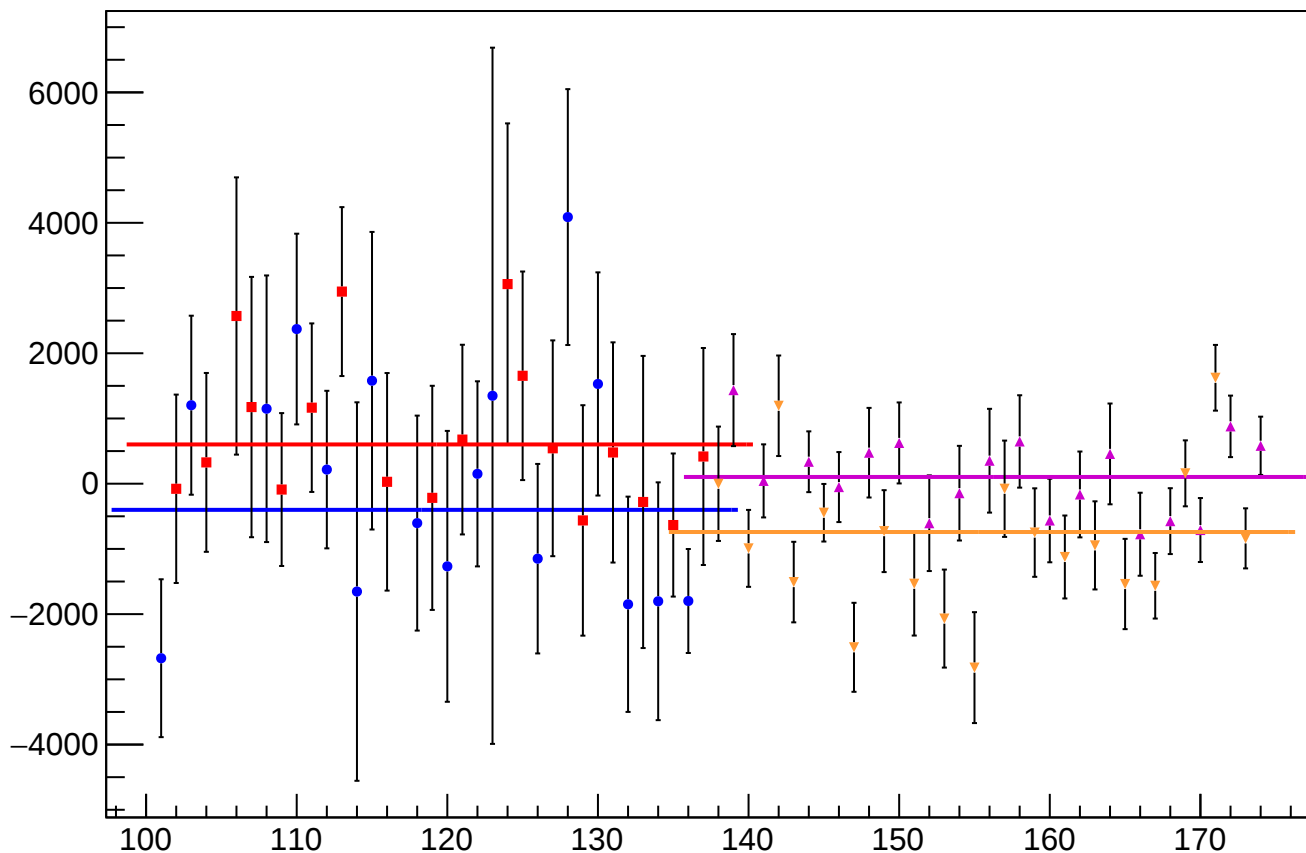
Right: 79.943 $\pm$ 0.016  $\chi^2$ /NDF: 894523.3/34

In: 74.293 $\pm$ 0.012  $\chi^2$ /NDF: 800132.3/34

Out: 73.287 $\pm$ 0.011  $\chi^2$ /NDF: 998994.8/36

All: 73.780 $\pm$ 0.008  $\chi^2$ /NDF: 1802882.3/71

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:  $-740.809 \pm 140.985$   $\chi^2/\text{NDF}: 56.5/18$

Right Out:  $601.891 \pm 363.668$   $\chi^2/\text{NDF}: 8.7/17$

Left In:  $103.237 \pm 139.855$   $\chi^2/\text{NDF}: 17.3/17$

Left:  $-315.388 \pm 99.289$   $\chi^2/\text{NDF}: 91.8/36$

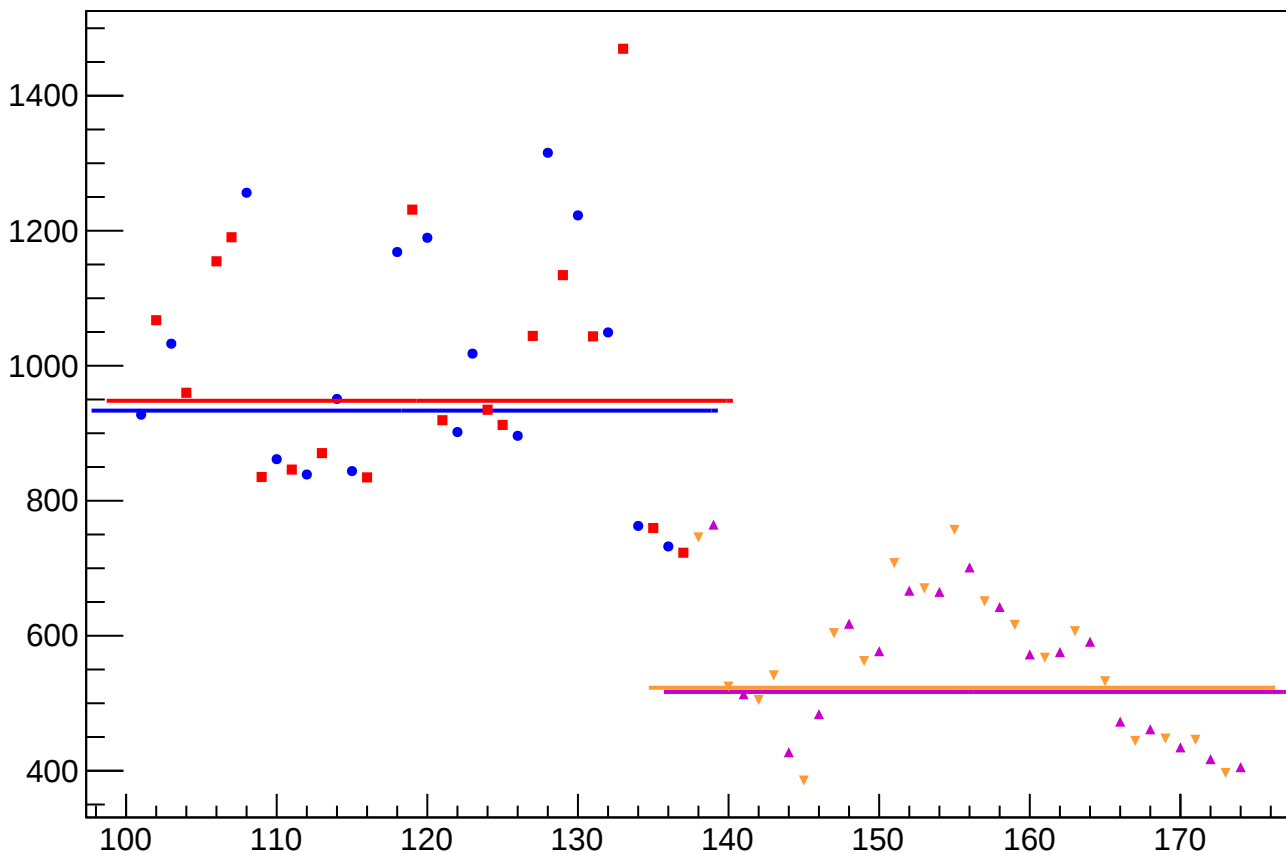
Right:  $107.014 \pm 258.836$   $\chi^2/\text{NDF}: 34.4/34$

In:  $39.739 \pm 130.754$   $\chi^2/\text{NDF}: 40.8/34$

Out:  $-565.377 \pm 131.453$   $\chi^2/\text{NDF}: 77.0/36$

All:  $-261.206 \pm 92.703$   $\chi^2/\text{NDF}: 128.5/71$

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 933.530 $\pm$ 0.261  $\chi^2/\text{NDF}$ : 442321.9/16

Left Out: 523.047 $\pm$ 0.100  $\chi^2/\text{NDF}$ :1127708.0/18

Right Out: 948.131 $\pm$ 0.257  $\chi^2/\text{NDF}$ : 405153.7/17

Left In: 516.744 $\pm$ 0.099  $\chi^2/\text{NDF}$ :1000190.4/17

Left: 519.870 $\pm$ 0.070  $\chi^2/\text{NDF}$ : 2129913.5/36

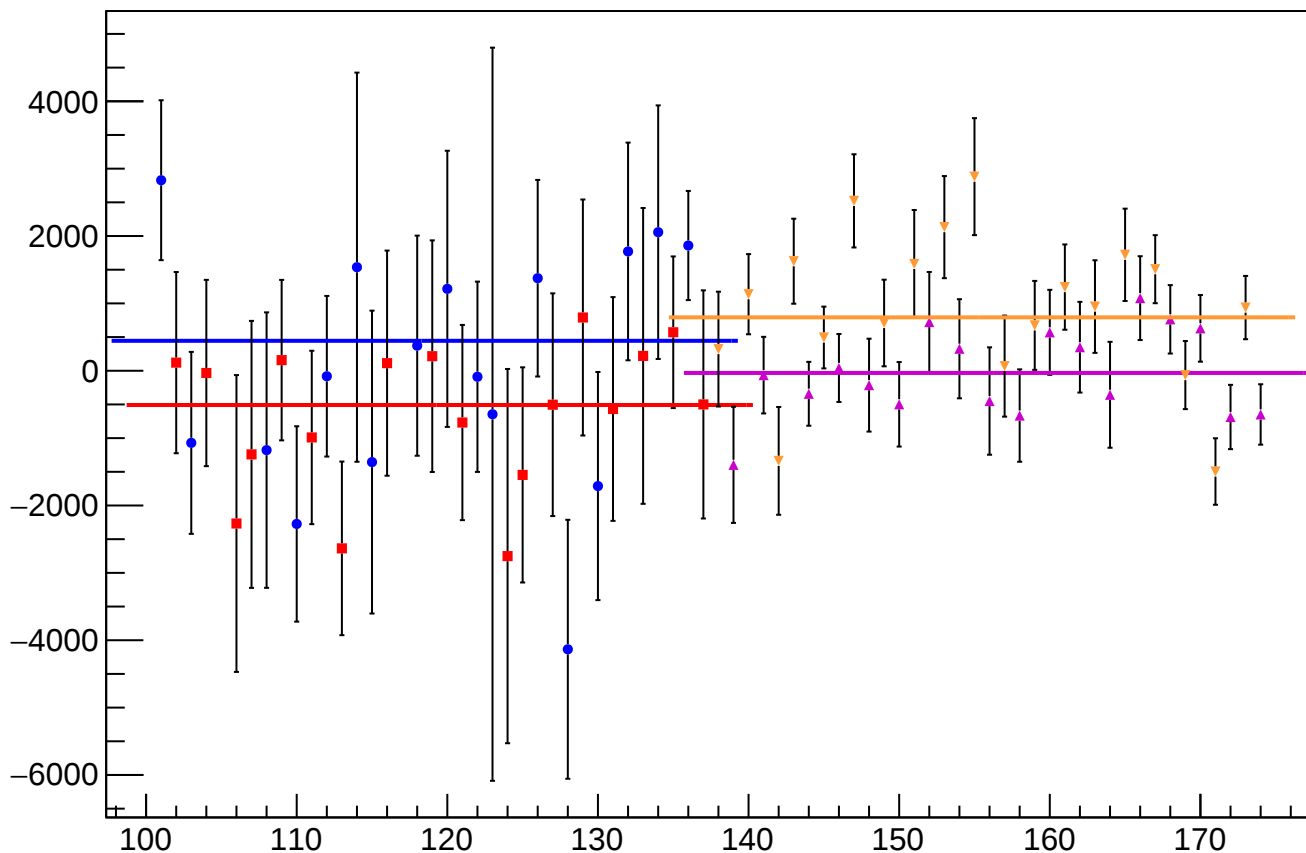
Right: 940.927 $\pm$ 0.183  $\chi^2/\text{NDF}$ : 849066.3/34

In: 569.224 $\pm$ 0.092  $\chi^2/\text{NDF}$ :3679085.6/34

Out: 578.587 $\pm$ 0.093  $\chi^2/\text{NDF}$ :3908396.7/36

All: 573.880 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 7592583.1/71

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 444.669+/-367.099  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 792.781+/-142.192  $\chi^2/\text{NDF}$ : 55.9/18

Right Out: -508.221+/-364.112  $\chi^2/\text{NDF}$ : 7.3/17

Left In: -32.503+/-139.923  $\chi^2/\text{NDF}$ : 18.6/17

Left: 373.503+/-99.733  $\chi^2/\text{NDF}$ : 91.6/36

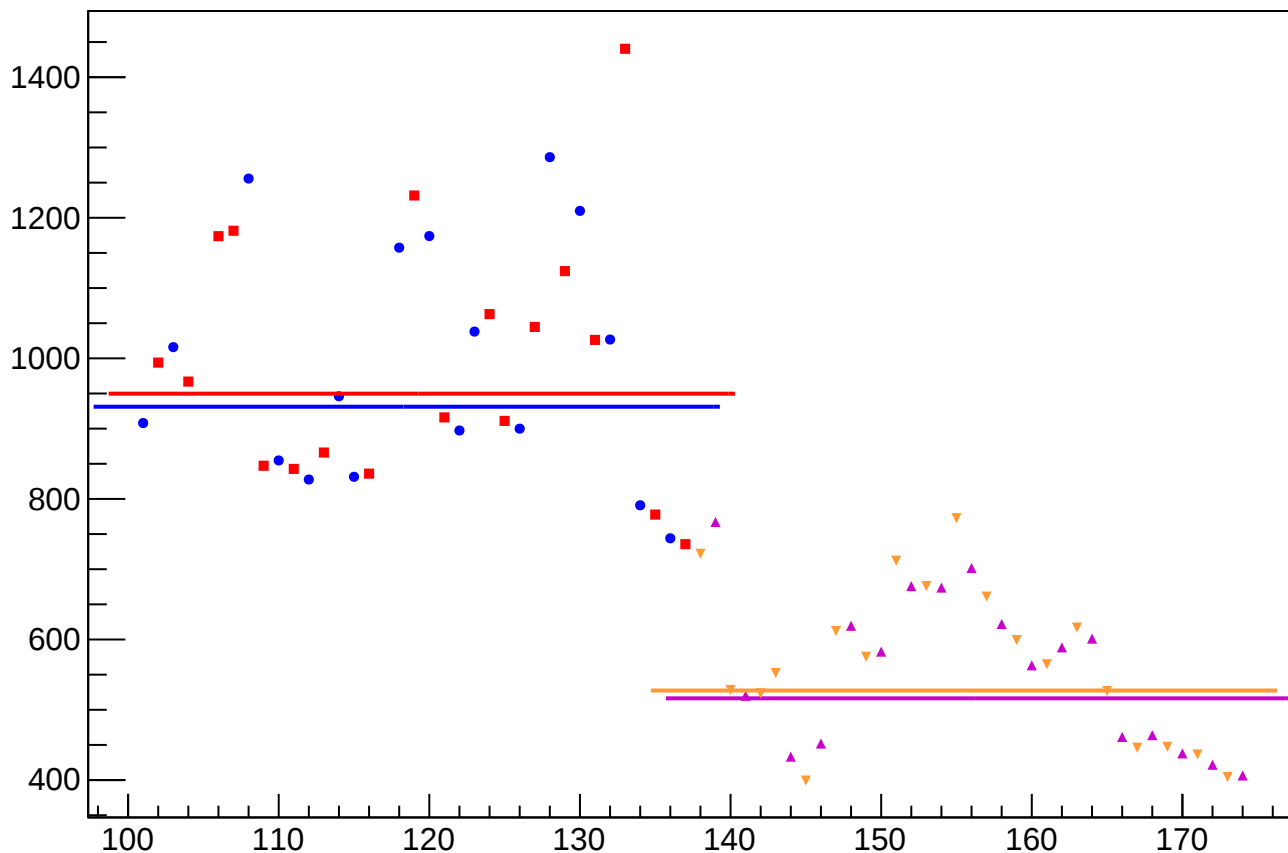
Right: -35.668+/-258.516  $\chi^2/\text{NDF}$ : 33.6/34

In: 28.028+/-130.747  $\chi^2/\text{NDF}$ : 43.0/34

Out: 620.628+/-132.450  $\chi^2/\text{NDF}$ : 74.3/36

All: 320.494+/-93.049  $\chi^2/\text{NDF}$ : 127.3/71

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 527.451 $\pm$ 0.101  $\chi^2$ /NDF:1082616.5/18

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

Left In: 516.305 $\pm$ 0.099  $\chi^2$ /NDF:1013350.1/17

Left: 521.788 $\pm$ 0.071  $\chi^2$ /NDF: 2102211.0/36

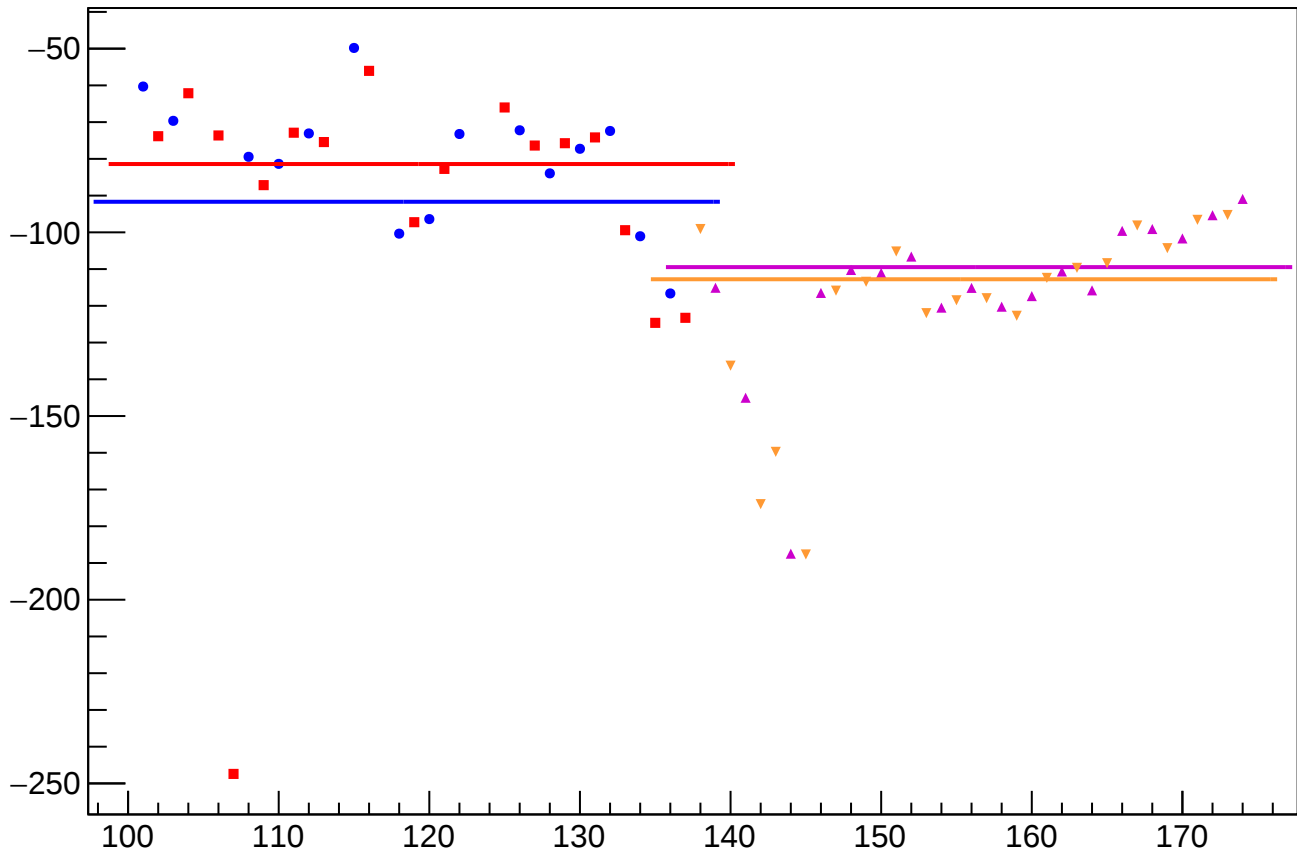
Right: 940.547 $\pm$ 0.183  $\chi^2$ /NDF: 768363.9/34

In: 568.936 $\pm$ 0.092  $\chi^2$ /NDF:3644258.0/34

Out: 583.330 $\pm$ 0.094  $\chi^2$ /NDF:3782362.7/36

All: 576.040 $\pm$ 0.066  $\chi^2$ /NDF: 7438584.9/71

# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}: 64621.9/14$

Left Out:  $-112.771 \pm 0.061$   $\chi^2/\text{NDF}: 49484.2/18$

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}: 41708.8/16$

Left In:  $-109.466 \pm 0.053$   $\chi^2/\text{NDF}: 99894.9/17$

Left:  $-110.869 \pm 0.040$   $\chi^2/\text{NDF}: 151061.9/36$

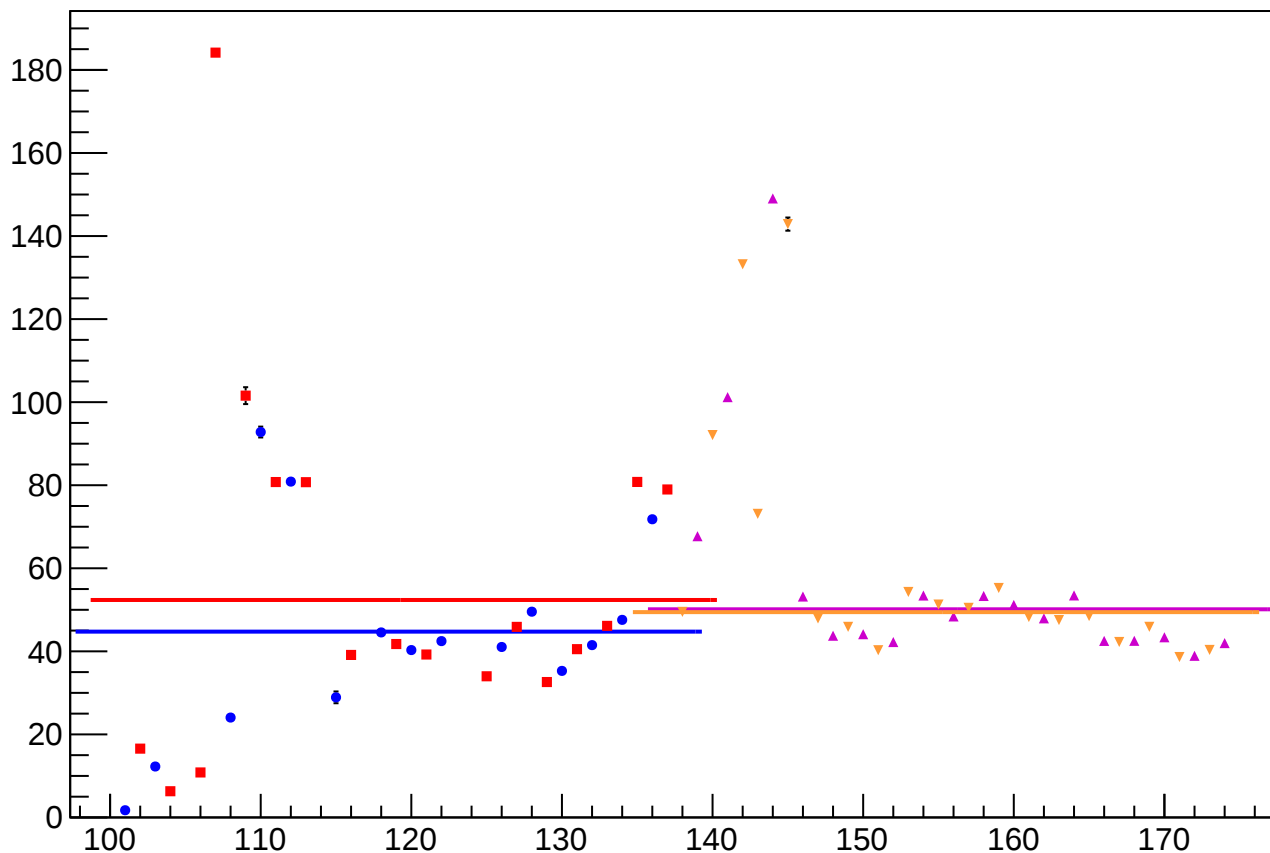
Right:  $-88.221 \pm 0.057$   $\chi^2/\text{NDF}: 113551.1/31$

In:  $-103.078 \pm 0.042$   $\chi^2/\text{NDF}: 205734.4/32$

Out:  $-104.049 \pm 0.052$   $\chi^2/\text{NDF}: 164438.7/35$

All:  $-103.462 \pm 0.033$   $\chi^2/\text{NDF}: 370384.4/68$

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In: 44.745+/-0.061  $\chi^2/\text{NDF}$ : 84697.9/14

Left Out: 49.443+/-0.051  $\chi^2/\text{NDF}$ : 53682.8/18

Right Out: 52.367+/-0.113  $\chi^2/\text{NDF}$ : 69285.2/16

Left In: 50.123+/-0.046  $\chi^2/\text{NDF}$ : 133580.9/17

Left: 49.815+/-0.034  $\chi^2/\text{NDF}$ : 187363.0/36

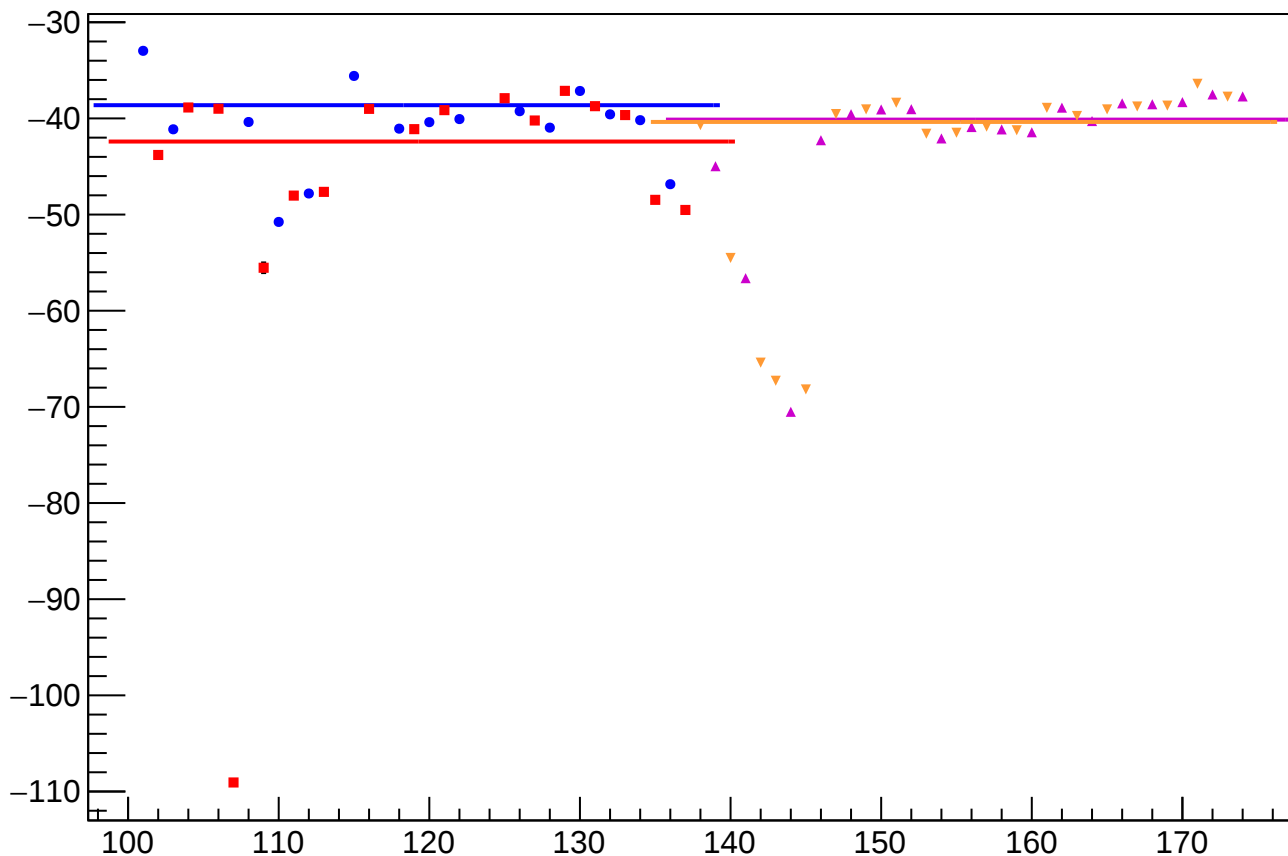
Right: 46.456+/-0.053  $\chi^2/\text{NDF}$ : 157538.4/31

In: 48.160+/-0.037  $\chi^2/\text{NDF}$ : 223285.9/32

Out: 49.933+/-0.046  $\chi^2/\text{NDF}$ : 123529.6/35

All: 48.846+/-0.029  $\chi^2/\text{NDF}$ : 347722.8/68

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}: 240108.7/14$

Left Out:  $-40.367 \pm 0.008$   $\chi^2/\text{NDF}: 226225.0/18$

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}: 269138.5/16$

Left In:  $-40.126 \pm 0.008$   $\chi^2/\text{NDF}: 181169.4/17$

Left:  $-40.251 \pm 0.005$   $\chi^2/\text{NDF}: 407872.5/36$

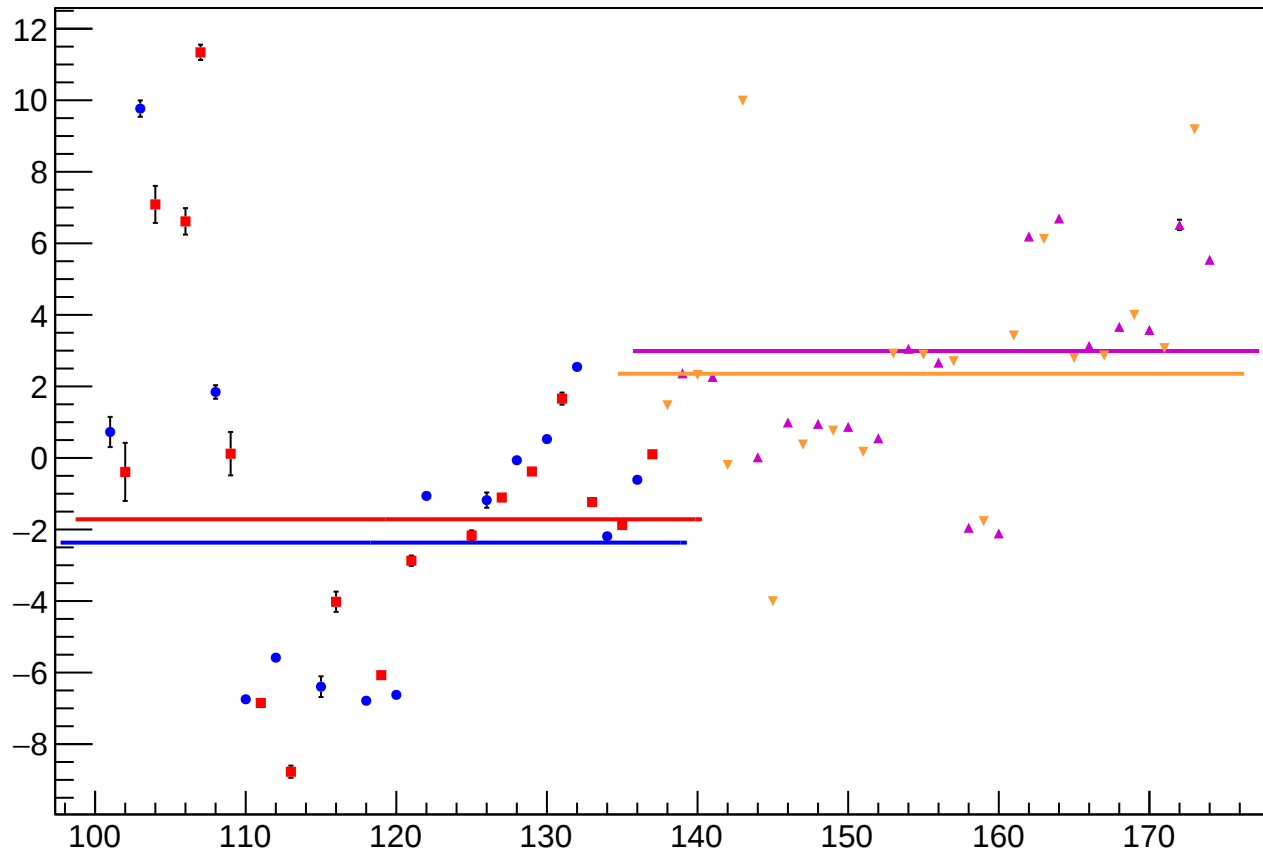
Right:  $-39.121 \pm 0.008$   $\chi^2/\text{NDF}: 536660.1/31$

In:  $-39.406 \pm 0.006$   $\chi^2/\text{NDF}: 438426.4/32$

Out:  $-40.598 \pm 0.007$   $\chi^2/\text{NDF}: 503503.7/35$

All:  $-39.871 \pm 0.004$   $\chi^2/\text{NDF}: 958798.6/68$

# dit\_usl\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}$ : 28797.3/14

Left Out:  $2.354 \pm 0.008$   $\chi^2/\text{NDF}$ : 85716.5/18

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}$ : 12719.3/16

Left In:  $2.989 \pm 0.007$   $\chi^2/\text{NDF}$ : 153518.9/17

Left:  $2.740 \pm 0.005$   $\chi^2/\text{NDF}$ : 242910.0/36

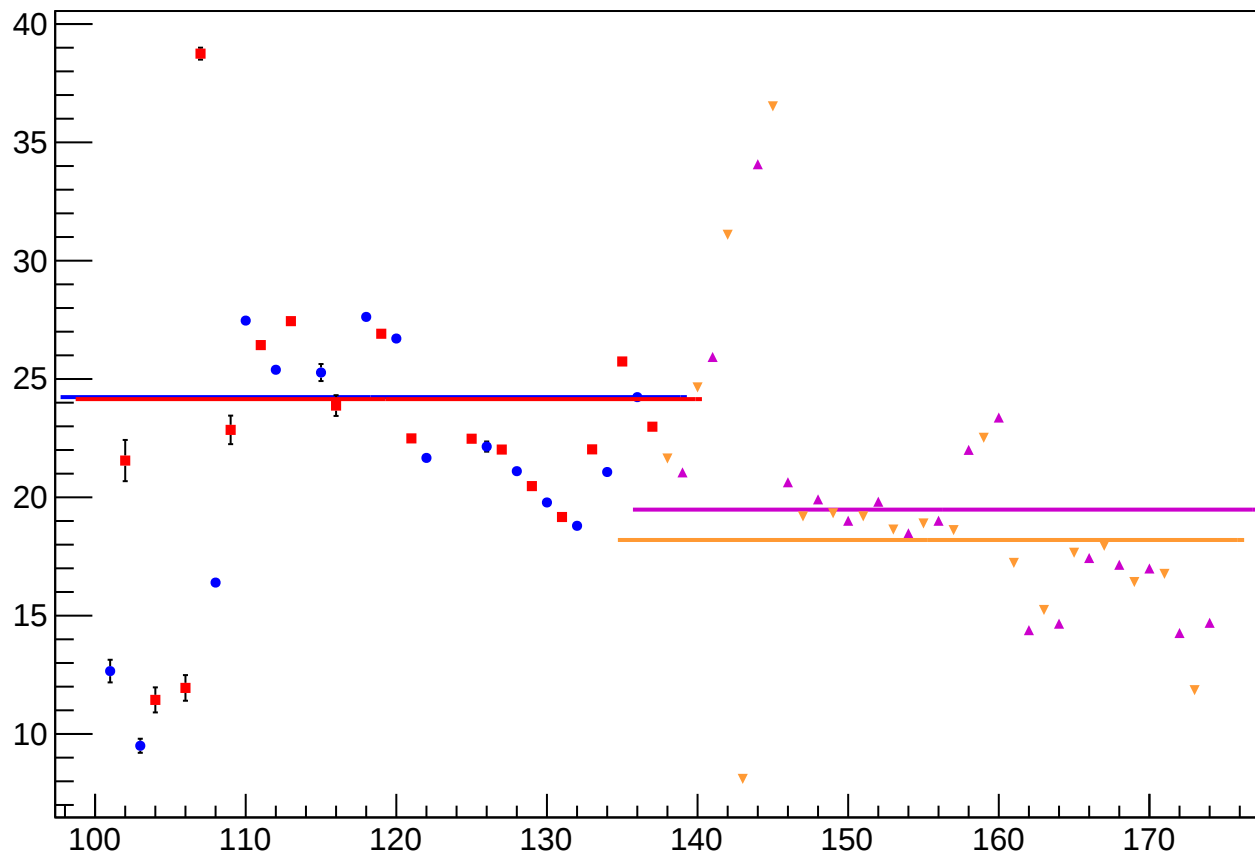
Right:  $-2.227 \pm 0.012$   $\chi^2/\text{NDF}$ : 41975.5/31

In:  $2.032 \pm 0.006$   $\chi^2/\text{NDF}$ : 301271.9/32

Out:  $2.012 \pm 0.008$   $\chi^2/\text{NDF}$ : 119248.5/35

All:  $2.025 \pm 0.005$   $\chi^2/\text{NDF}$ : 420524.7/68

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.235+/-0.022  $\chi^2/\text{NDF}$ : 21896.9/14

Left Out: 18.198+/-0.008  $\chi^2/\text{NDF}$ : 90120.7/18

Right Out: 24.150+/-0.024  $\chi^2/\text{NDF}$ : 13222.6/16

Left In: 19.481+/-0.008  $\chi^2/\text{NDF}$ : 117128.6/17

Left: 18.873+/-0.006  $\chi^2/\text{NDF}$ : 219585.8/36

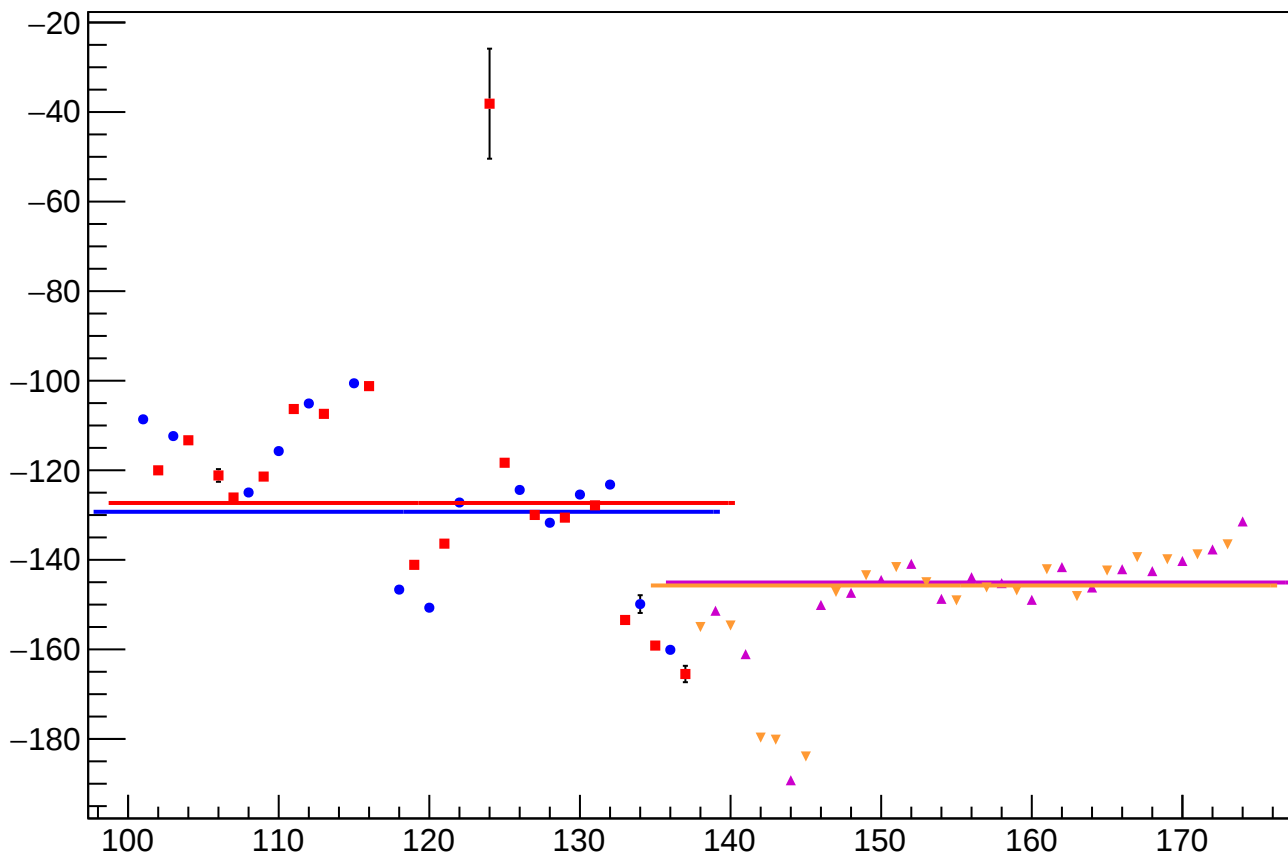
Right: 24.197+/-0.016  $\chi^2/\text{NDF}$ : 35126.2/31

In: 20.028+/-0.007  $\chi^2/\text{NDF}$ : 180265.4/32

Out: 18.827+/-0.008  $\chi^2/\text{NDF}$ : 156684.6/35

All: 19.463+/-0.005  $\chi^2/\text{NDF}$ : 349104.0/68

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In: -129.272 $\pm$ 0.088  $\chi^2/\text{NDF}$ : 35109.7/14

Left Out: -145.726 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 38962.8/18

Right Out: -127.303 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 29597.3/17

Left In: -145.064 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 32161.0/17

Left: -145.393 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 71212.8/36

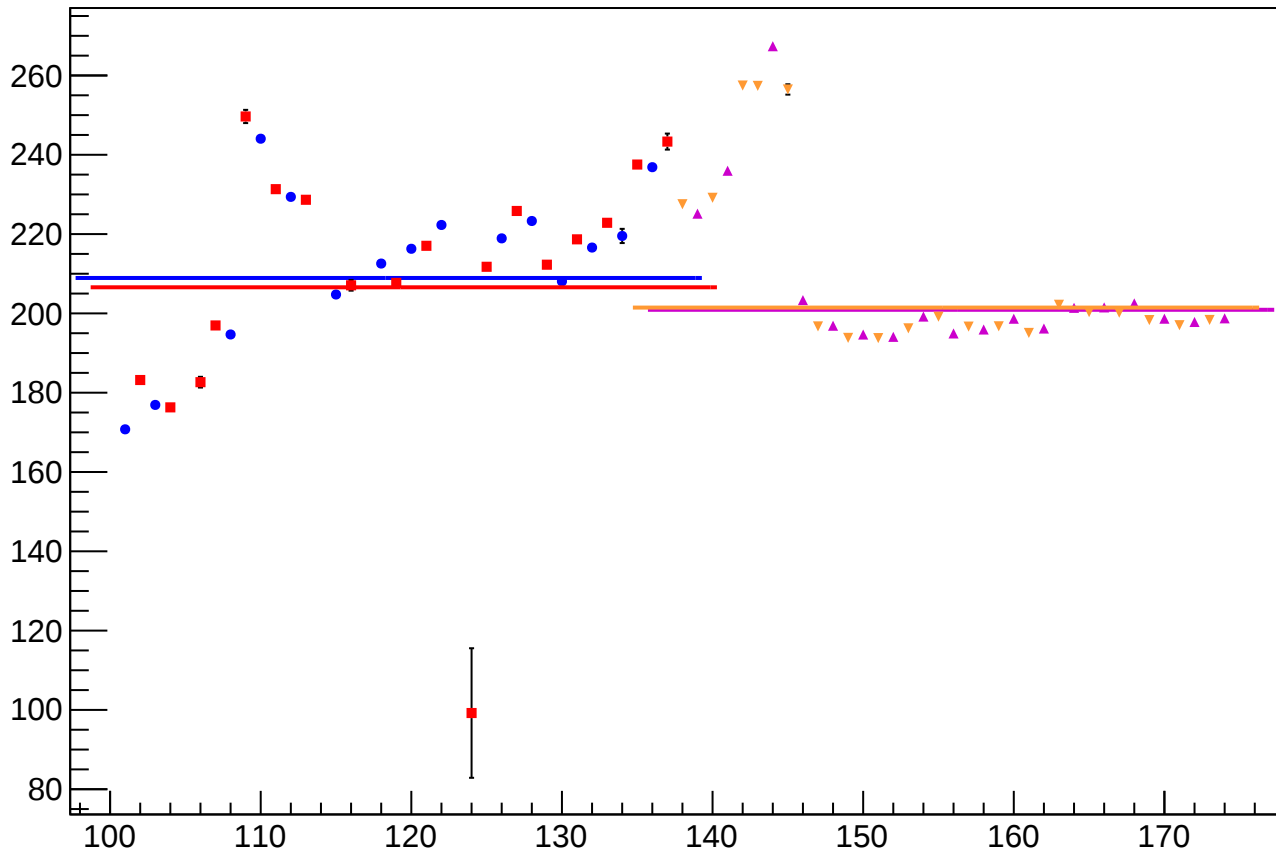
Right: -128.248 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 64968.8/32

In: -141.259 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 91839.6/32

Out: -140.967 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 103967.9/36

All: -141.112 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 195830.6/69

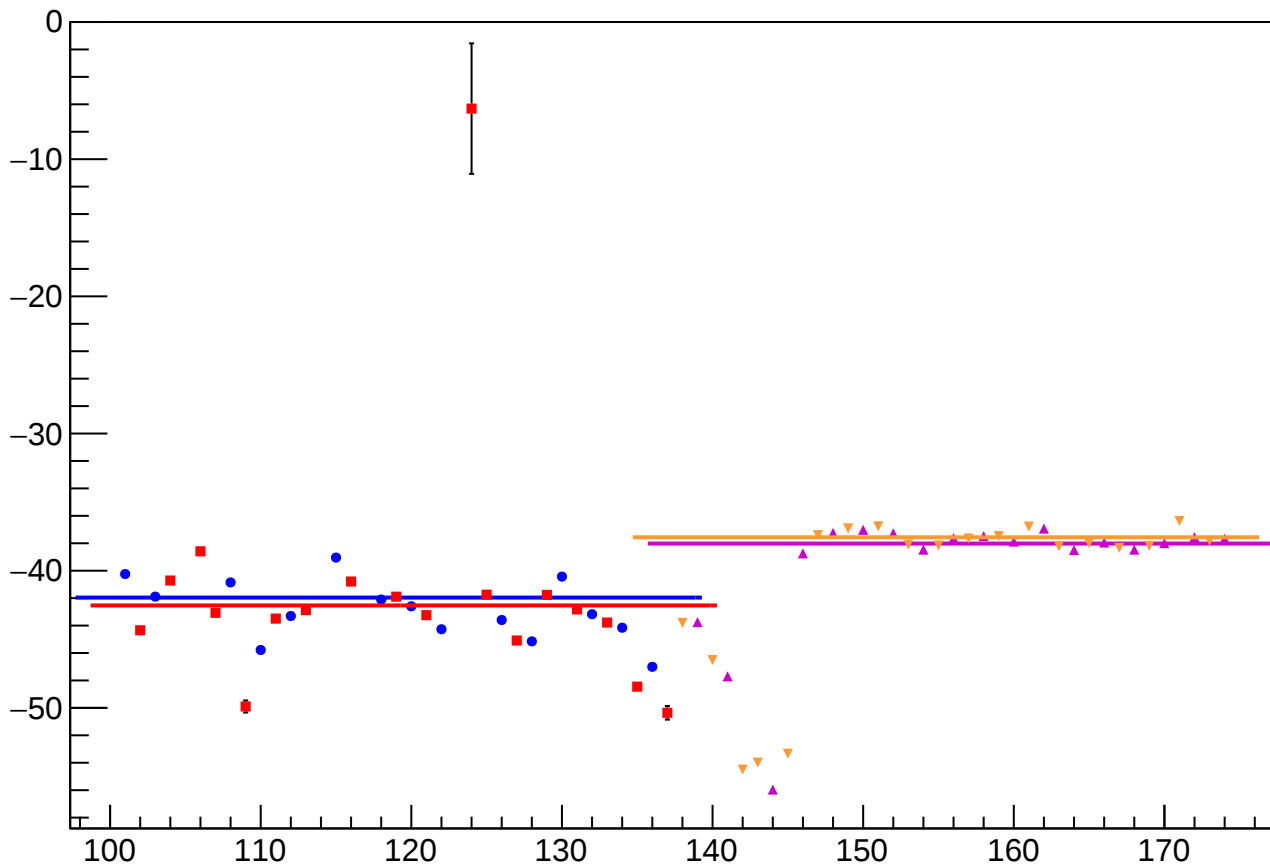
# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14  
Left Out: 201.465 $\pm$ 0.042  $\chi^2$ /NDF:105331.0/18  
Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17  
Left In: 200.908 $\pm$ 0.043  $\chi^2$ /NDF:76921.3/17

Left: 201.191 $\pm$ 0.030  $\chi^2$ /NDF: 182337.8/36  
Right: 207.675 $\pm$ 0.061  $\chi^2$ /NDF: 93267.6/32  
In: 202.420 $\pm$ 0.039  $\chi^2$ /NDF:128175.7/32  
Out: 202.514 $\pm$ 0.038  $\chi^2$ /NDF:156548.3/36  
All: 202.469 $\pm$ 0.027  $\chi^2$ /NDF: 284727.0/69

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected

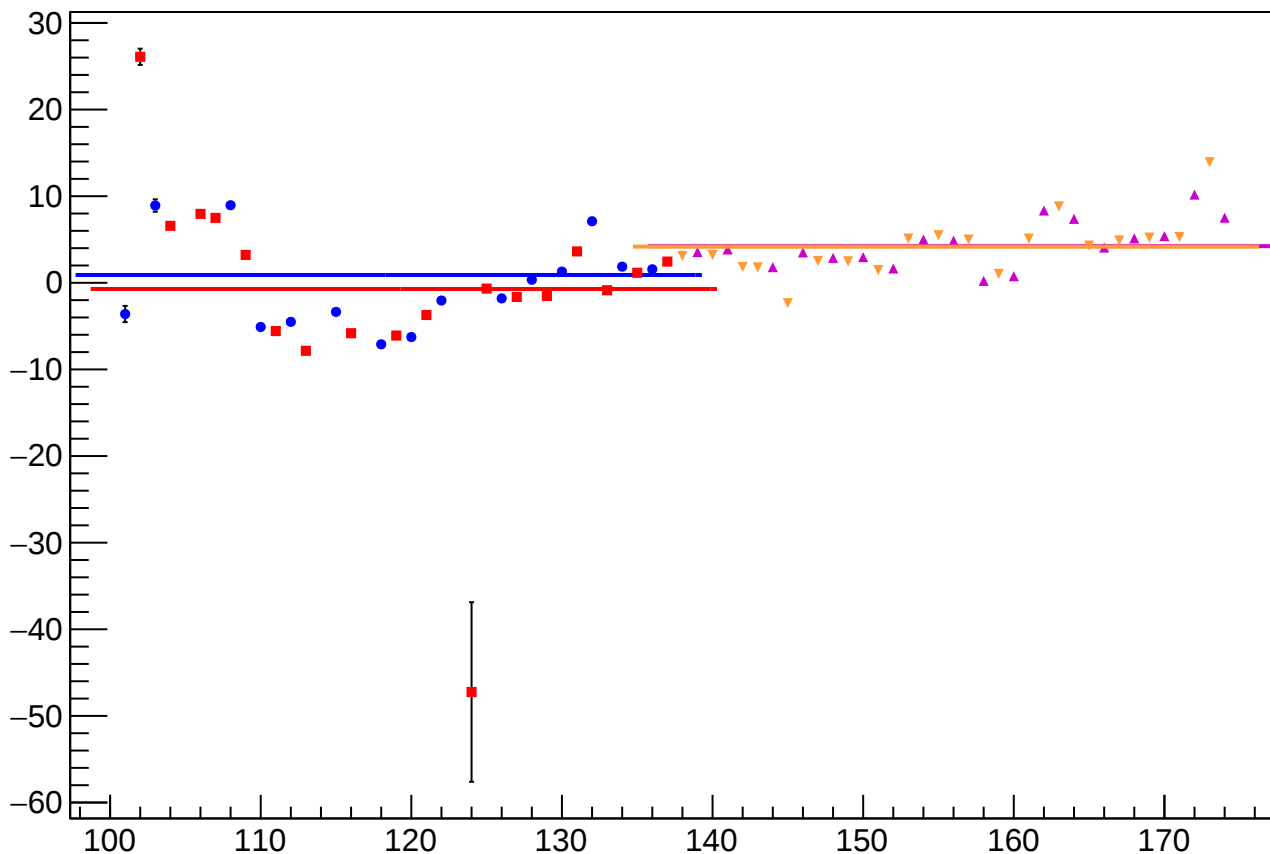


Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}: 24229.7/14$   
 Left Out:  $-37.565 \pm 0.004$   $\chi^2/\text{NDF}: 225731.0/18$   
 Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}: 6137.0/17$   
 Left In:  $-38.021 \pm 0.005$   $\chi^2/\text{NDF}: 134011.0/17$

Left:  $-37.772 \pm 0.003$   $\chi^2/\text{NDF}: 364936.6/36$   
 Right:  $-42.168 \pm 0.012$   $\chi^2/\text{NDF}: 30855.6/32$   
 In:  $-38.346 \pm 0.004$   $\chi^2/\text{NDF}: 216663.2/32$   
 Out:  $-37.768 \pm 0.004$   $\chi^2/\text{NDF}: 287332.7/36$

All:  $-38.037 \pm 0.003$   $\chi^2/\text{NDF}: 512875.8/69$

# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}: 21140.4/14$

Left Out:  $4.180 \pm 0.006$   $\chi^2/\text{NDF}: 97850.9/18$

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}: 30723.8/17$

Left In:  $4.234 \pm 0.007$   $\chi^2/\text{NDF}: 90043.7/17$

Left:  $4.203 \pm 0.005$   $\chi^2/\text{NDF}: 187924.1/36$

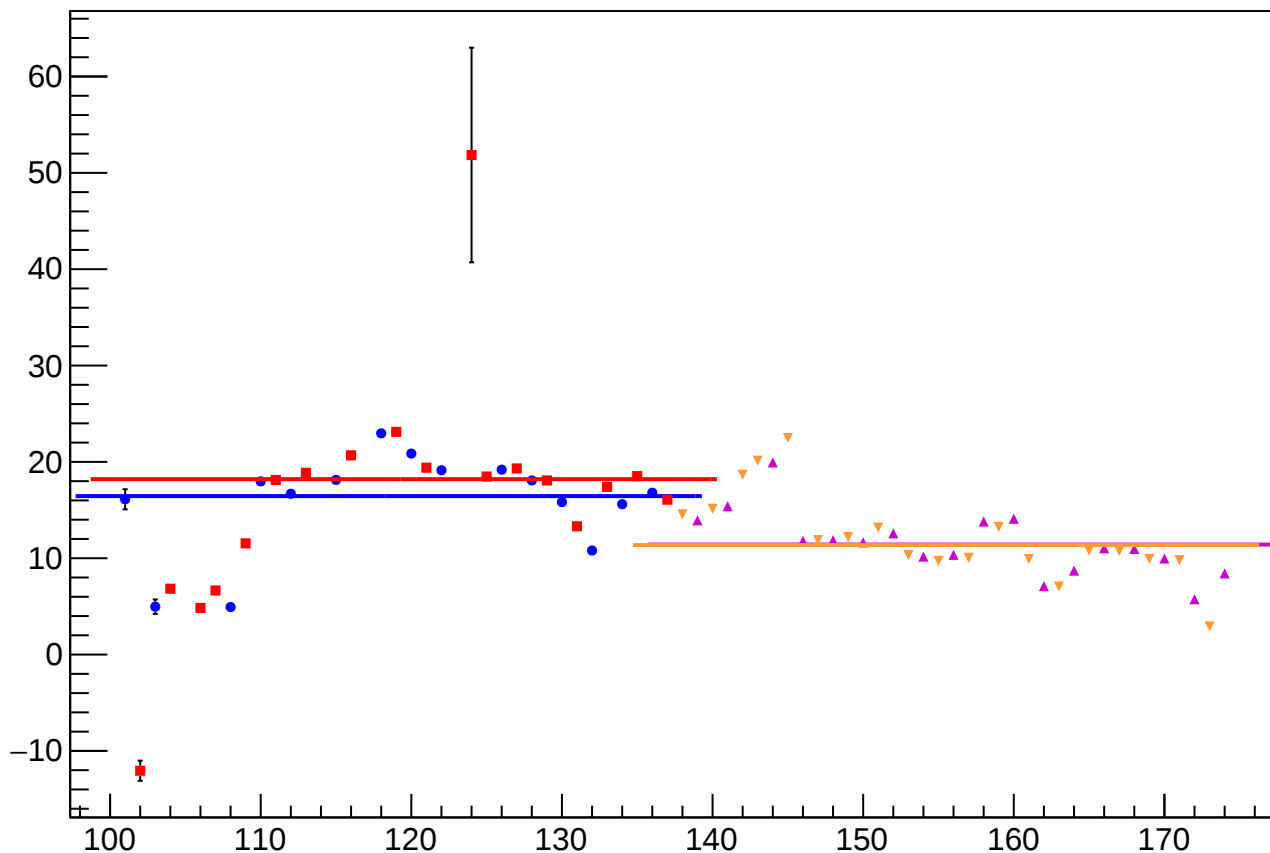
Right:  $0.250 \pm 0.015$   $\chi^2/\text{NDF}: 54492.0/32$

In:  $3.832 \pm 0.007$   $\chi^2/\text{NDF}: 135467.1/32$

Out:  $3.858 \pm 0.006$   $\chi^2/\text{NDF}: 166420.3/36$

All:  $3.847 \pm 0.005$   $\chi^2/\text{NDF}: 301894.9/69$

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 11.364 $\pm$ 0.008  $\chi^2$ /NDF:105440.2/18

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

Left In: 11.419 $\pm$ 0.009  $\chi^2$ /NDF:63464.9/17

Left: 11.389 $\pm$ 0.006  $\chi^2$ /NDF: 168924.7/36

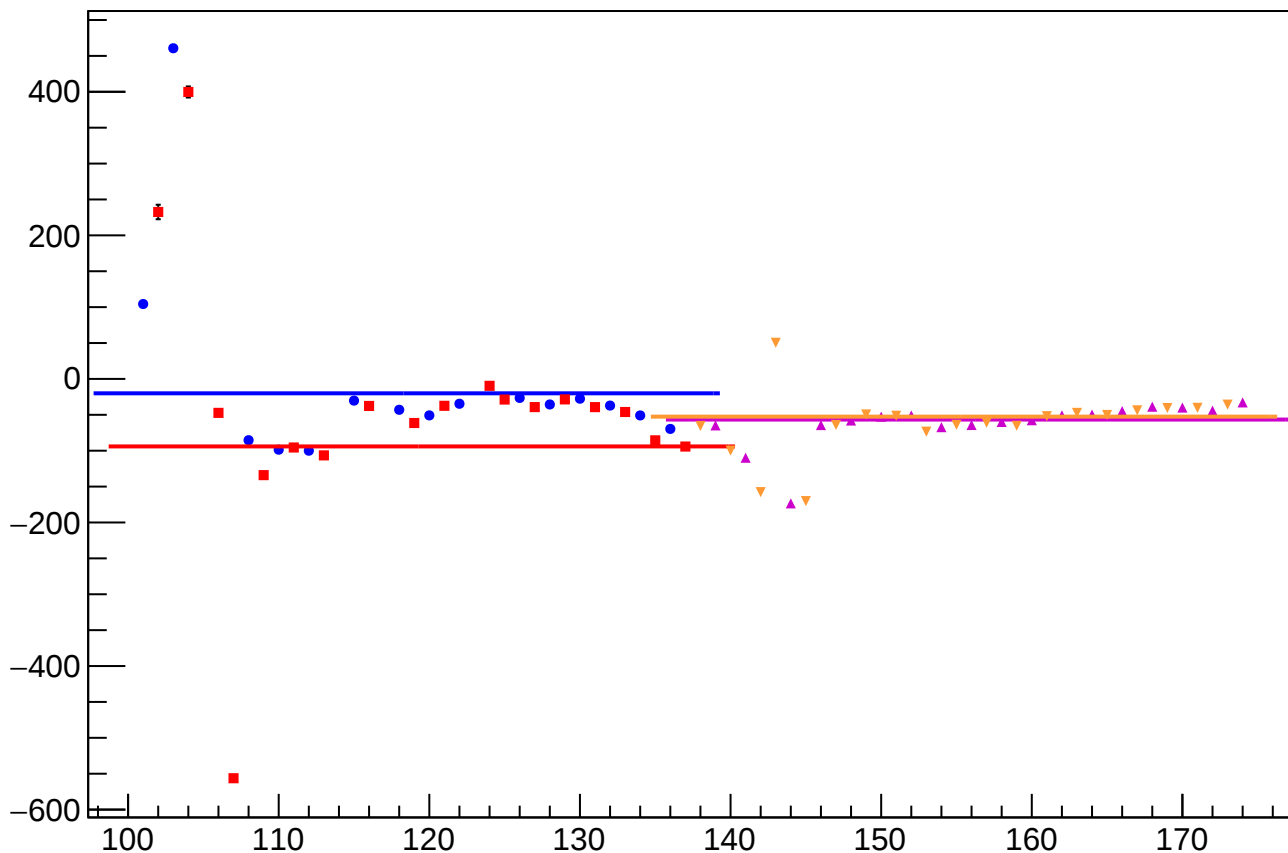
Right: 17.482 $\pm$ 0.016  $\chi^2$ /NDF: 44731.9/32

In: 12.040 $\pm$ 0.009  $\chi^2$ /NDF:114842.7/32

Out: 12.353 $\pm$ 0.008  $\chi^2$ /NDF:228881.1/36

All: 12.212 $\pm$ 0.006  $\chi^2$ /NDF: 344456.6/69

# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-52.548 \pm 0.097$   $\chi^2/\text{NDF}: 54562.0/18$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

Left In:  $-56.619 \pm 0.110$   $\chi^2/\text{NDF}: 54564.7/17$

Left:  $-54.319 \pm 0.073$   $\chi^2/\text{NDF}: 109900.3/36$

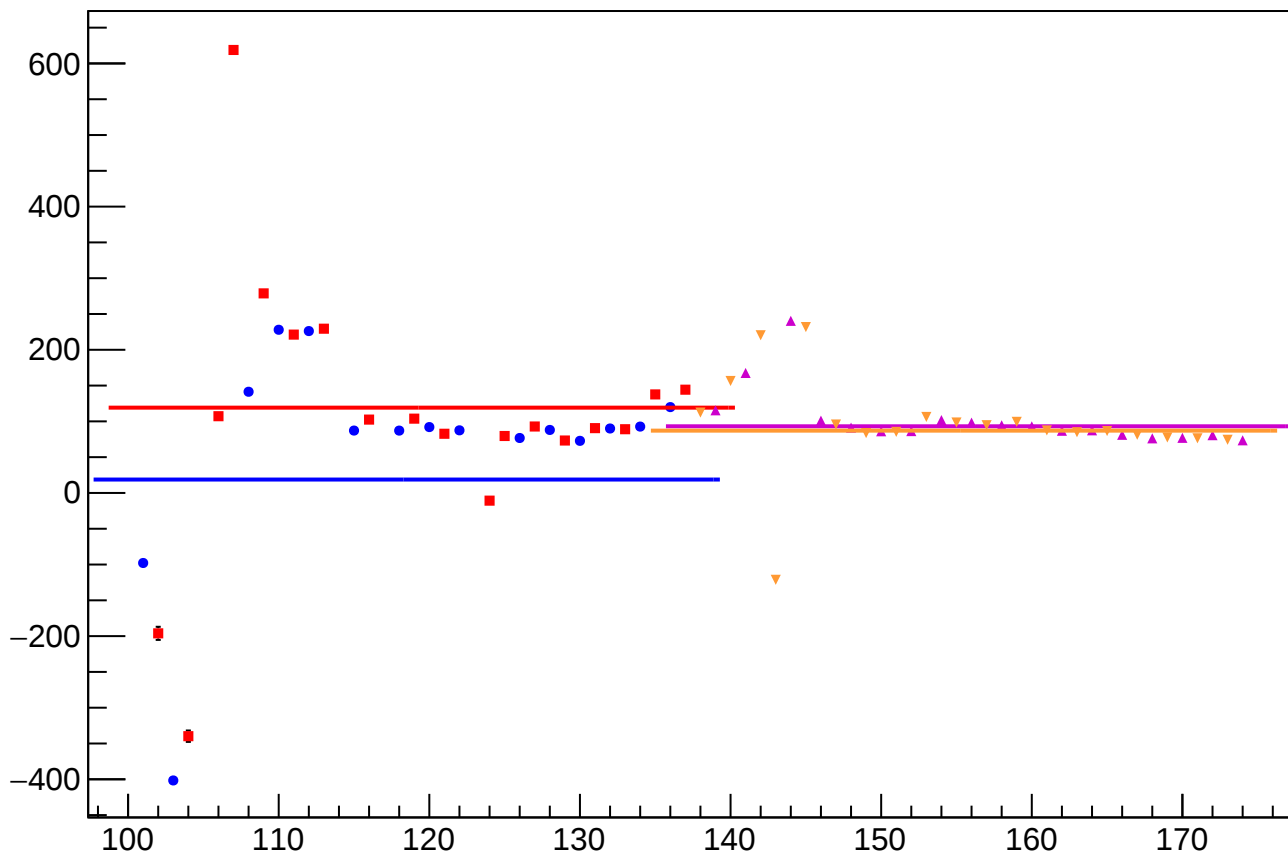
Right:  $-93.566 \pm 0.012$   $\chi^2/\text{NDF}: 760844.5/32$

In:  $-44.173 \pm 0.089$   $\chi^2/\text{NDF}: 533615.3/32$

Out:  $-93.373 \pm 0.012$   $\chi^2/\text{NDF}: 323841.4/36$

All:  $-92.453 \pm 0.012$   $\chi^2/\text{NDF}: 1154959.7/69$

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In: 18.731+/-0.152  $\chi^2/\text{NDF}$ : 1101803.8/14

Left Out: 87.049+/-0.086  $\chi^2/\text{NDF}$ : 172714.0/18

Right Out: 119.167+/-0.199  $\chi^2/\text{NDF}$ : 87450.0/17

Left In: 93.123+/-0.096  $\chi^2/\text{NDF}$ : 75273.8/17

Left: 89.730+/-0.064  $\chi^2/\text{NDF}$ : 250213.3/36

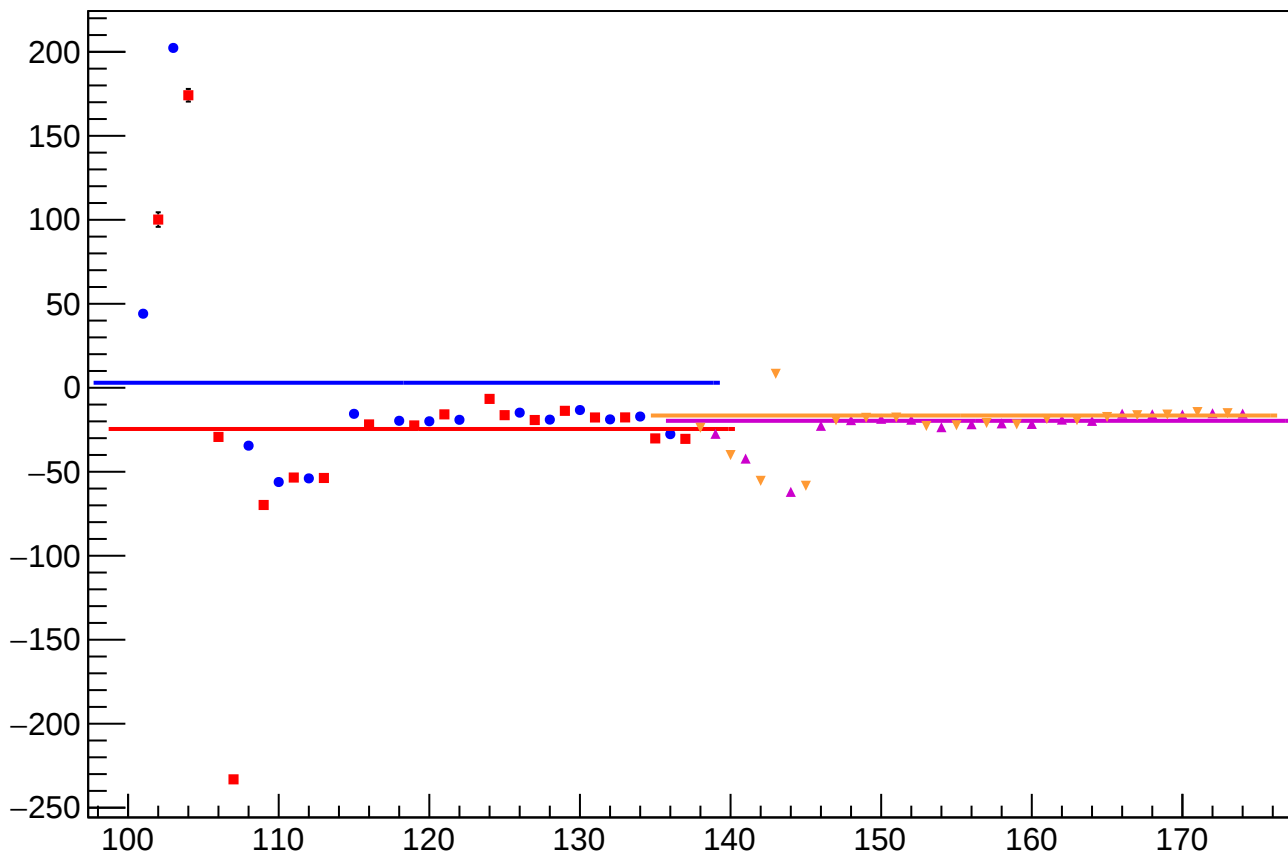
Right: 55.701+/-0.121  $\chi^2/\text{NDF}$ : 1349806.5/32

In: 71.855+/-0.081  $\chi^2/\text{NDF}$ : 1347955.2/32

Out: 92.048+/-0.079  $\chi^2/\text{NDF}$ : 282103.8/36

All: 82.293+/-0.057  $\chi^2/\text{NDF}$ : 1661937.5/69

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-16.512 \pm 0.013$   $\chi^2/\text{NDF}: 573691.4/18$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

Left In:  $-19.674 \pm 0.014$   $\chi^2/\text{NDF}: 163618.2/17$

Left:  $-17.924 \pm 0.009$   $\chi^2/\text{NDF}: 765363.3/36$

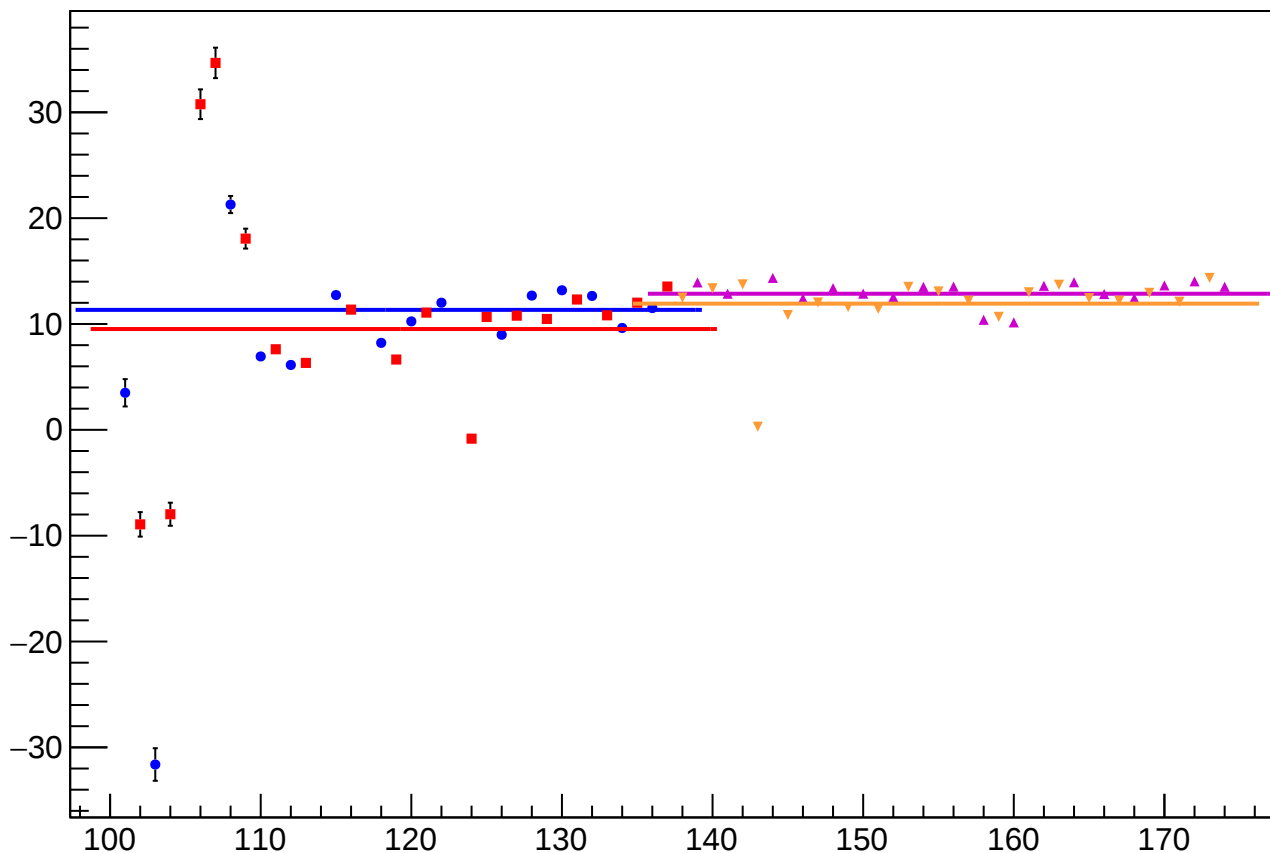
Right:  $-4.585 \pm 0.023$   $\chi^2/\text{NDF}: 3961708.4/32$

In:  $-14.815 \pm 0.012$   $\chi^2/\text{NDF}: 4218662.4/32$

Out:  $-17.131 \pm 0.012$   $\chi^2/\text{NDF}: 781374.1/36$

All:  $-16.004 \pm 0.009$   $\chi^2/\text{NDF}: 5017806.1/69$

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 11.334 $\pm$ 0.037  $\chi^2$ /NDF: 2406.0/14

Left Out: 11.923 $\pm$ 0.016  $\chi^2$ /NDF:31250.6/18

Right Out: 9.524 $\pm$ 0.048  $\chi^2$ /NDF: 4066.9/17

Left In: 12.858 $\pm$ 0.013  $\chi^2$ /NDF:5753.7/17

Left: 12.462 $\pm$ 0.010  $\chi^2$ /NDF: 39087.4/36

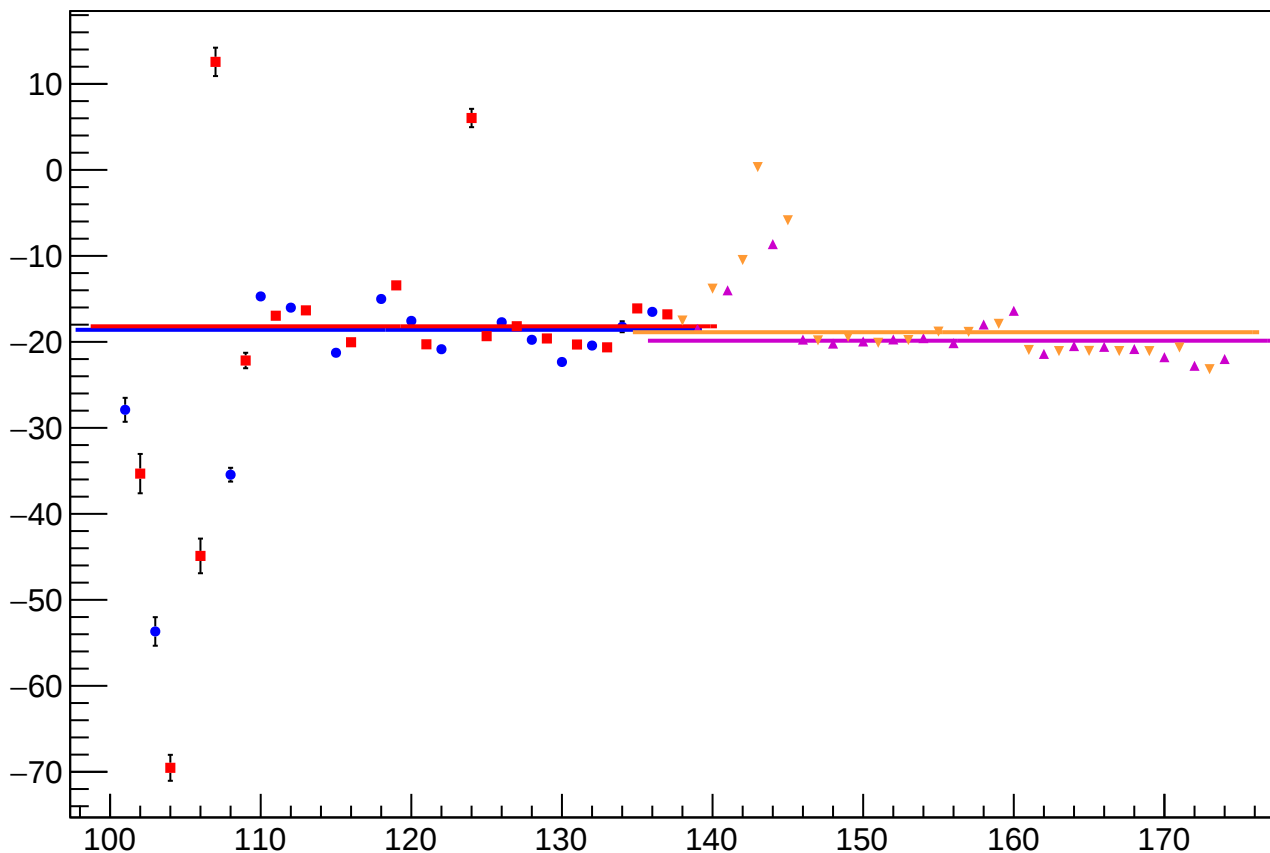
Right: 10.651 $\pm$ 0.029  $\chi^2$ /NDF: 7358.3/32

In: 12.686 $\pm$ 0.013  $\chi^2$ /NDF:9635.0/32

Out: 11.695 $\pm$ 0.015  $\chi^2$ /NDF:37576.2/36

All: 12.271 $\pm$ 0.010  $\chi^2$ /NDF: 49818.2/69

# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}: 6189.1/14$

Left Out:  $-18.876 \pm 0.018$   $\chi^2/\text{NDF}: 56589.2/18$

Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}: 4881.1/17$

Left In:  $-19.864 \pm 0.017$   $\chi^2/\text{NDF}: 13988.7/17$

Left:  $-19.402 \pm 0.012$   $\chi^2/\text{NDF}: 72241.2/36$

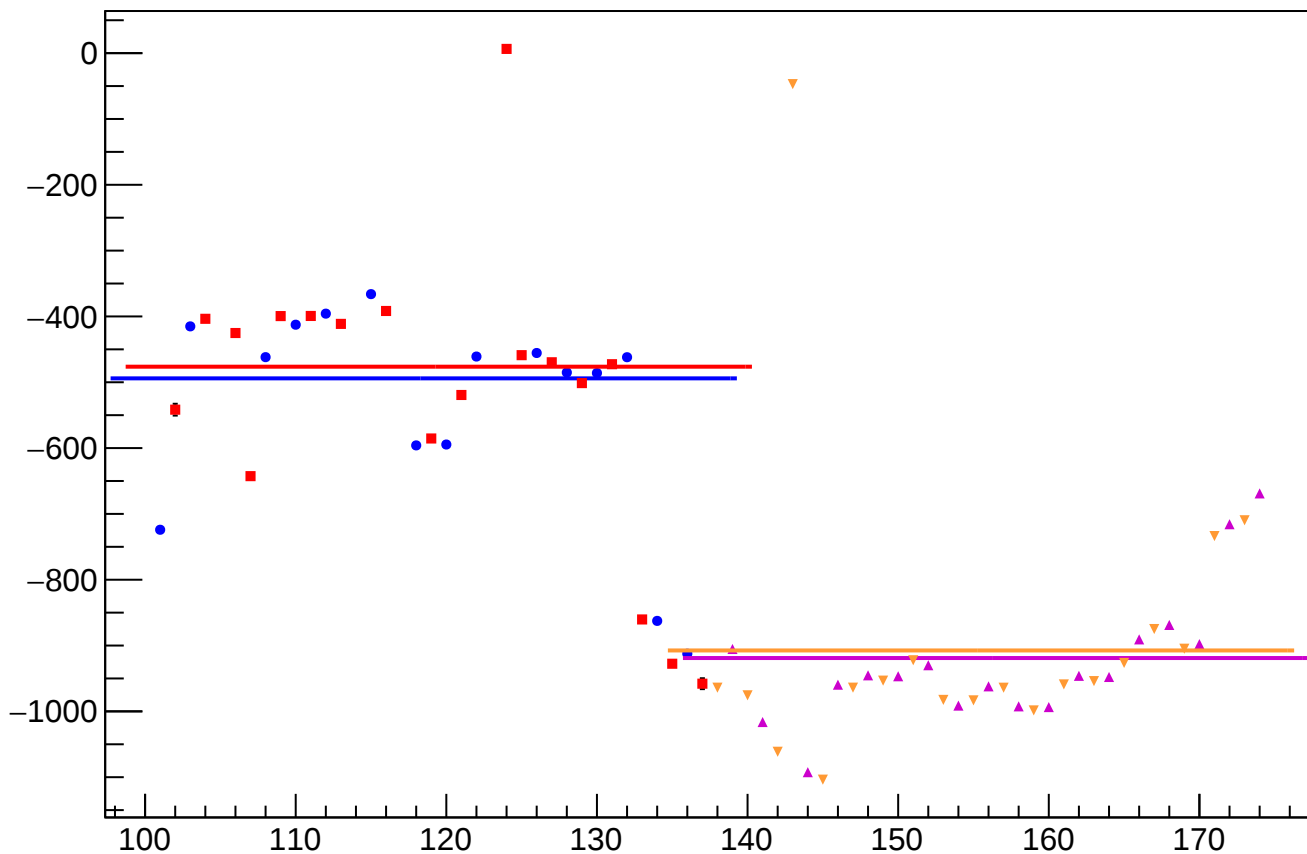
Right:  $-18.450 \pm 0.030$   $\chi^2/\text{NDF}: 11113.5/32$

In:  $-19.654 \pm 0.015$   $\chi^2/\text{NDF}: 21148.3/32$

Out:  $-18.798 \pm 0.017$   $\chi^2/\text{NDF}: 61641.3/36$

All:  $-19.267 \pm 0.011$   $\chi^2/\text{NDF}: 84236.9/69$

dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In: -494.081 $\pm$ 0.232  $\chi^2$ /NDF: 325996.5/14

Left Out: -907.451 $\pm$ 0.166  $\chi^2$ /NDF: 571067.7/18

Right Out: -476.348 $\pm$ 0.185  $\chi^2$ /NDF: 594116.3/17

Left In: -918.974 $\pm$ 0.165  $\chi^2$ /NDF: 386961.4/17

Left: -913.259 $\pm$ 0.117  $\chi^2$ /NDF: 960450.1/36

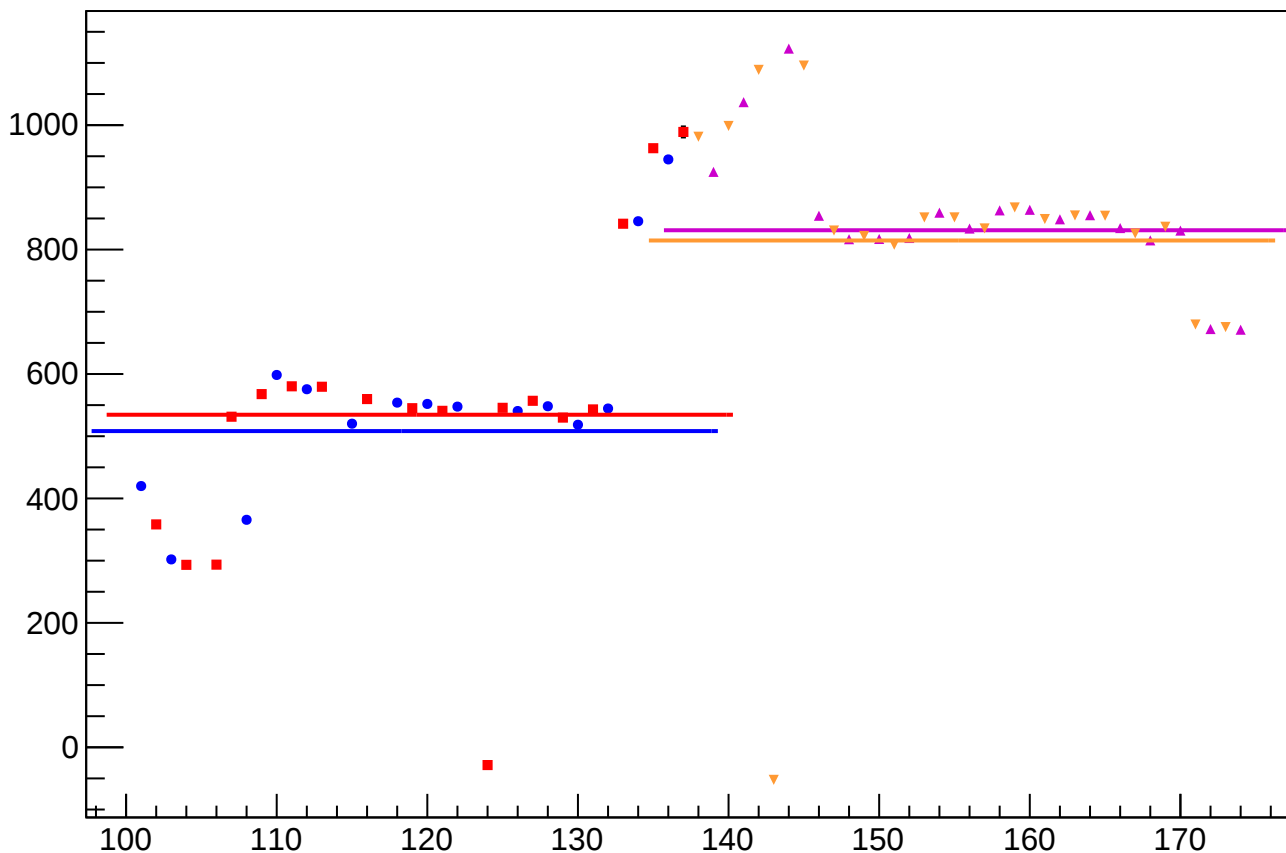
Right: -483.243 $\pm$ 0.145  $\chi^2$ /NDF: 923680.3/32

In: -776.407 $\pm$ 0.134  $\chi^2$ /NDF: 2939787.7/32

Out: -714.969 $\pm$ 0.124  $\chi^2$ /NDF: 4166733.2/36

All: -743.136 $\pm$ 0.091  $\chi^2$ /NDF: 7219608.4/69

# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 508.267+/-0.222  $\chi^2/\text{NDF}$ : 439489.9/14

Left Out: 814.607+/-0.135  $\chi^2/\text{NDF}$ : 592373.4/18

Right Out: 534.536+/-0.217  $\chi^2/\text{NDF}$ : 368263.1/17

Left In: 831.063+/-0.137  $\chi^2/\text{NDF}$ : 282203.3/17

Left: 822.757+/-0.096  $\chi^2/\text{NDF}$ : 881888.9/36

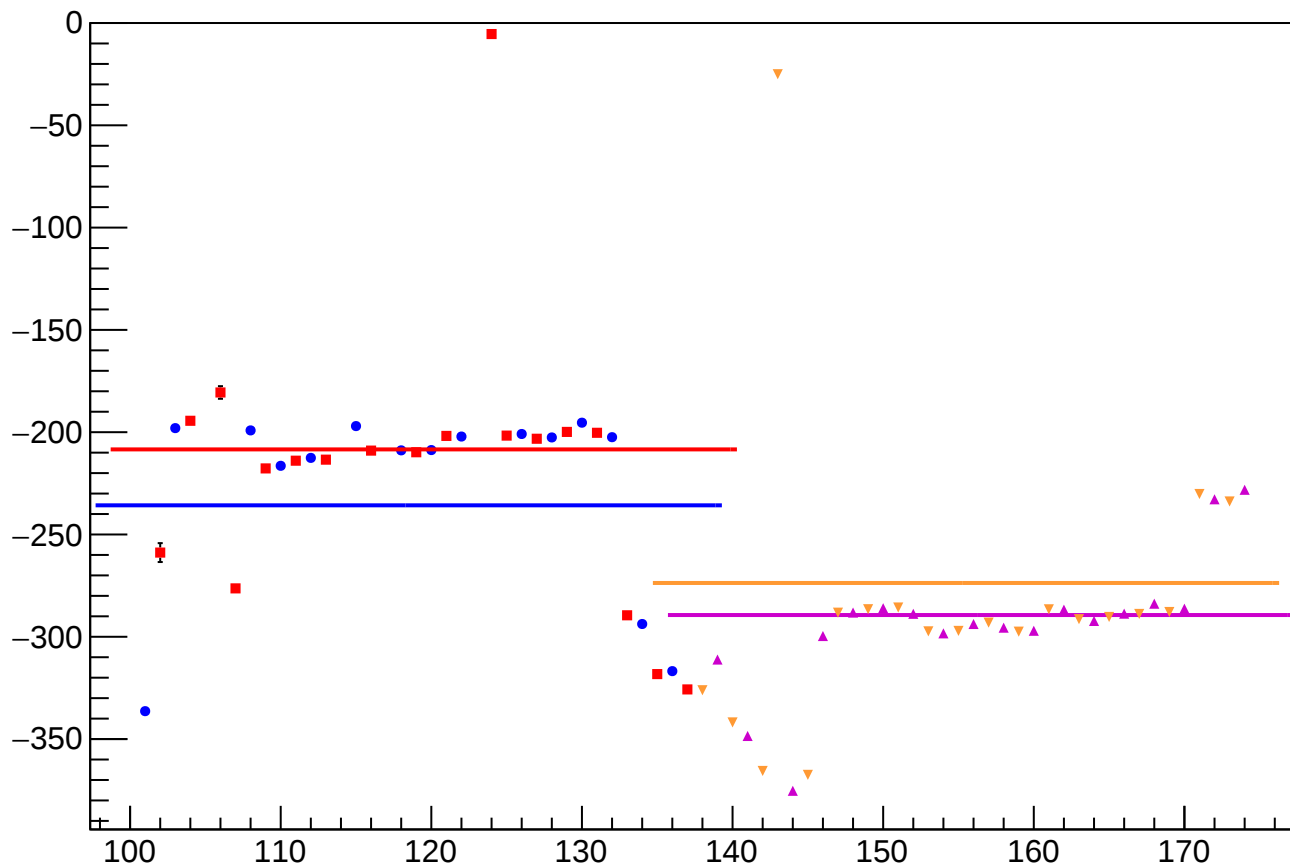
Right: 521.671+/-0.155  $\chi^2/\text{NDF}$ : 814918.8/32

In: 742.111+/-0.116  $\chi^2/\text{NDF}$ : 2257868.8/32

Out: 736.184+/-0.115  $\chi^2/\text{NDF}$ : 2158054.3/36

All: 739.110+/-0.082  $\chi^2/\text{NDF}$ : 4417236.7/69

# dit\_atl2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-273.699 \pm 0.024$   $\chi^2/\text{NDF}: 6617484.1/18$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

Left In:  $-289.373 \pm 0.024$   $\chi^2/\text{NDF}: 827769.6/17$

Left:  $-281.457 \pm 0.017$   $\chi^2/\text{NDF}: 7655819.3/36$

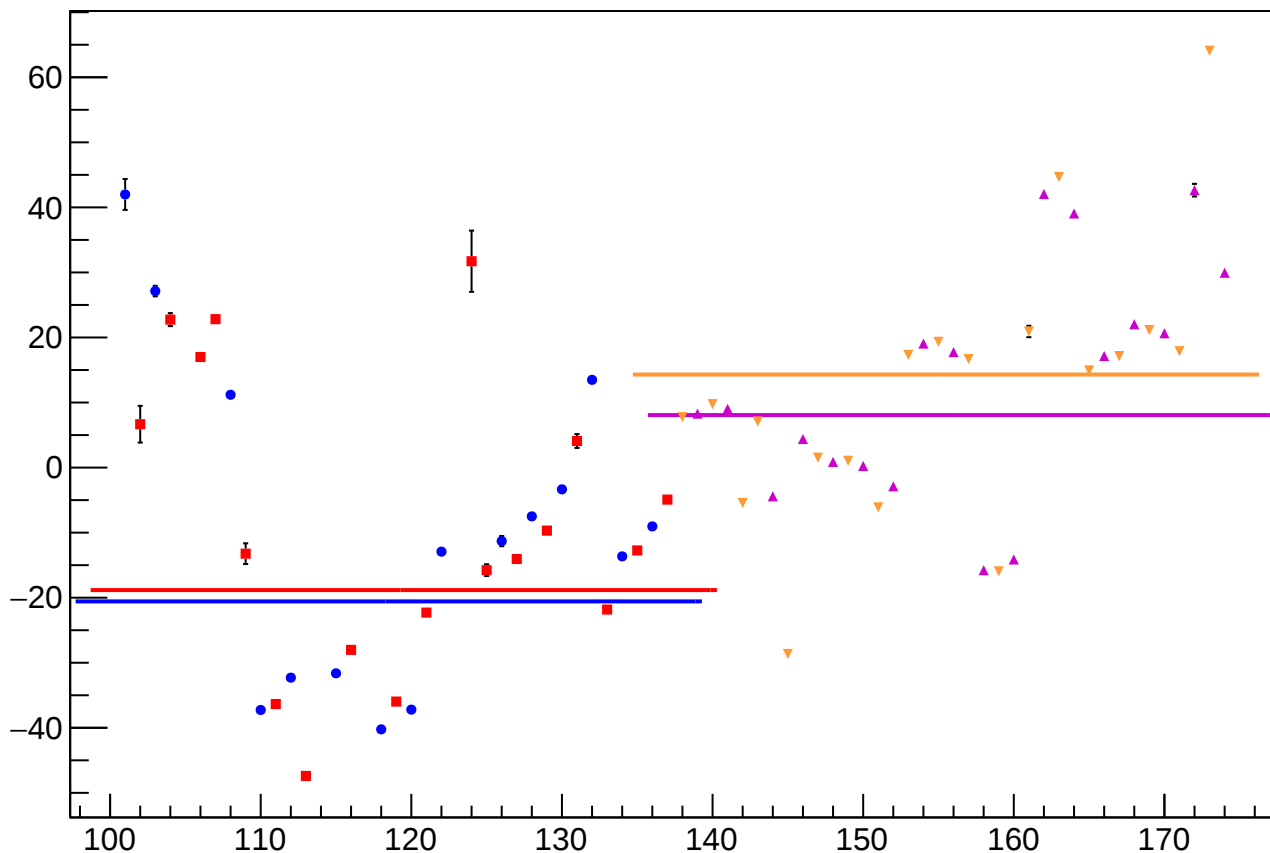
Right:  $-219.823 \pm 0.036$   $\chi^2/\text{NDF}: 1393978.3/32$

In:  $-280.690 \pm 0.022$   $\chi^2/\text{NDF}: 2494230.3/32$

Out:  $-260.051 \pm 0.021$   $\chi^2/\text{NDF}: 8535329.2/36$

All:  $-269.968 \pm 0.015$   $\chi^2/\text{NDF}: 11477654.0/6$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $14.304 \pm 0.023$   $\chi^2/\text{NDF}$ : 466383.0/18

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

Left In:  $8.075 \pm 0.019$   $\chi^2/\text{NDF}$ : 972449.4/17

Left:  $10.593 \pm 0.015$   $\chi^2/\text{NDF}$ : 1481528.6/36

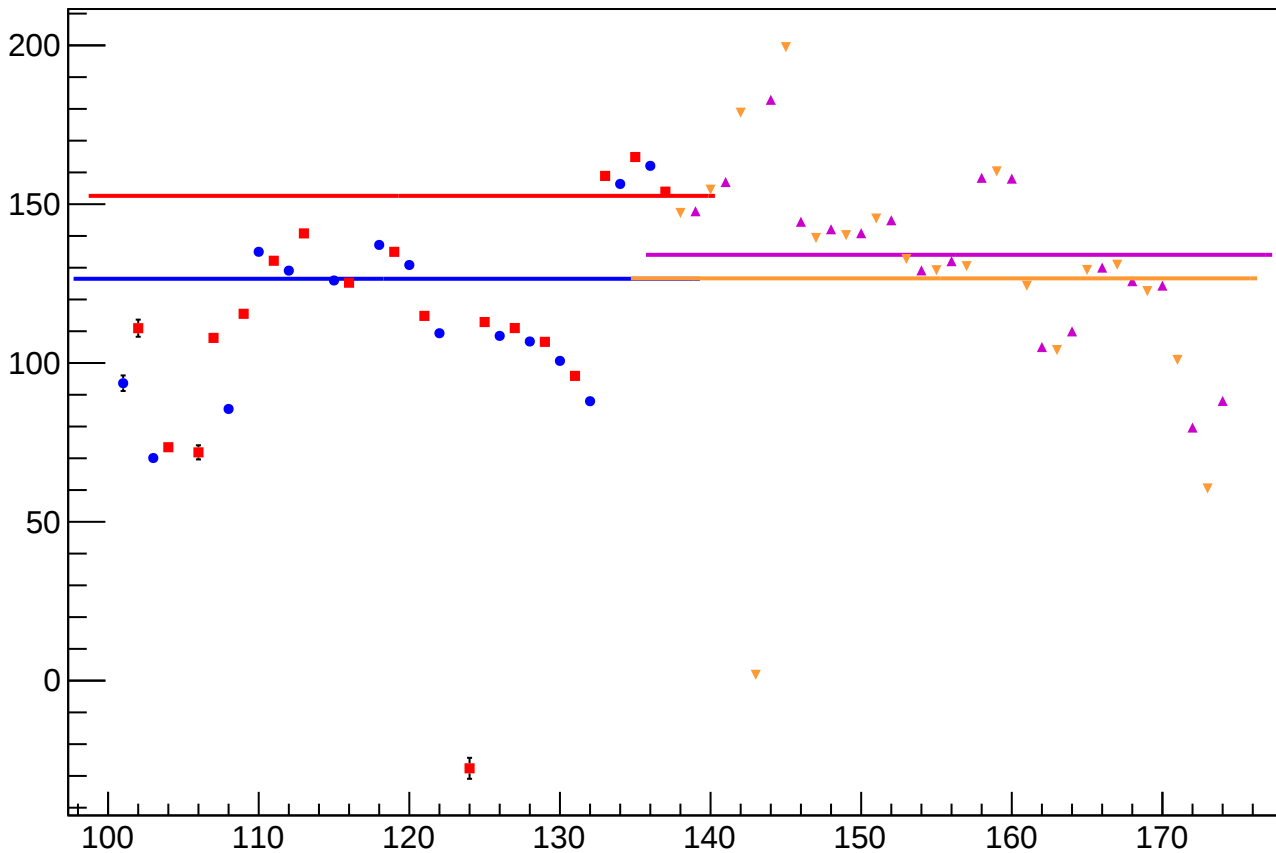
Right:  $-20.041 \pm 0.060$   $\chi^2/\text{NDF}$ : 84439.6/32

In:  $6.147 \pm 0.019$   $\chi^2/\text{NDF}$ : 1186223.7/32

Out:  $12.834 \pm 0.023$   $\chi^2/\text{NDF}$ : 577181.2/36

All:  $8.811 \pm 0.014$   $\chi^2/\text{NDF}$ : 1815408.0/69

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 126.517 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 114967.3/14

Left Out: 126.641 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 644264.7/18

Right Out: 152.620 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 74022.9/17

Left In: 134.061 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 496443.0/17

Left: 130.680 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 1174276.4/36

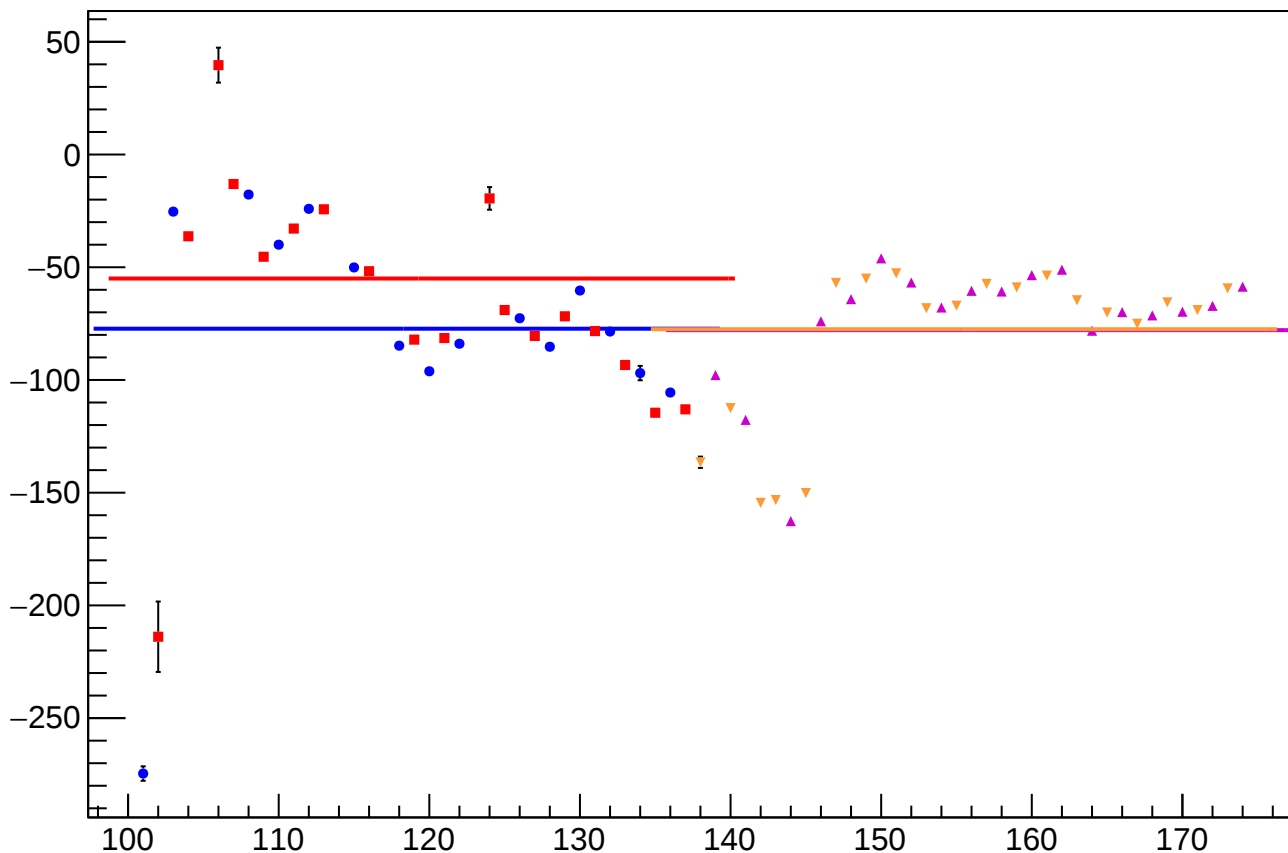
Right: 149.605 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 274404.9/32

In: 133.339 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 618703.3/32

Out: 139.426 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 1090354.4/36

All: 136.982 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 1741881.7/69

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}$ : 30356.0/14

Left Out:  $-77.490 \pm 0.126$   $\chi^2/\text{NDF}$ : 60050.0/18

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}$ : 23629.0/17

Left In:  $-77.896 \pm 0.124$   $\chi^2/\text{NDF}$ : 62347.8/17

Left:  $-77.697 \pm 0.088$   $\chi^2/\text{NDF}$ : 122403.1/36

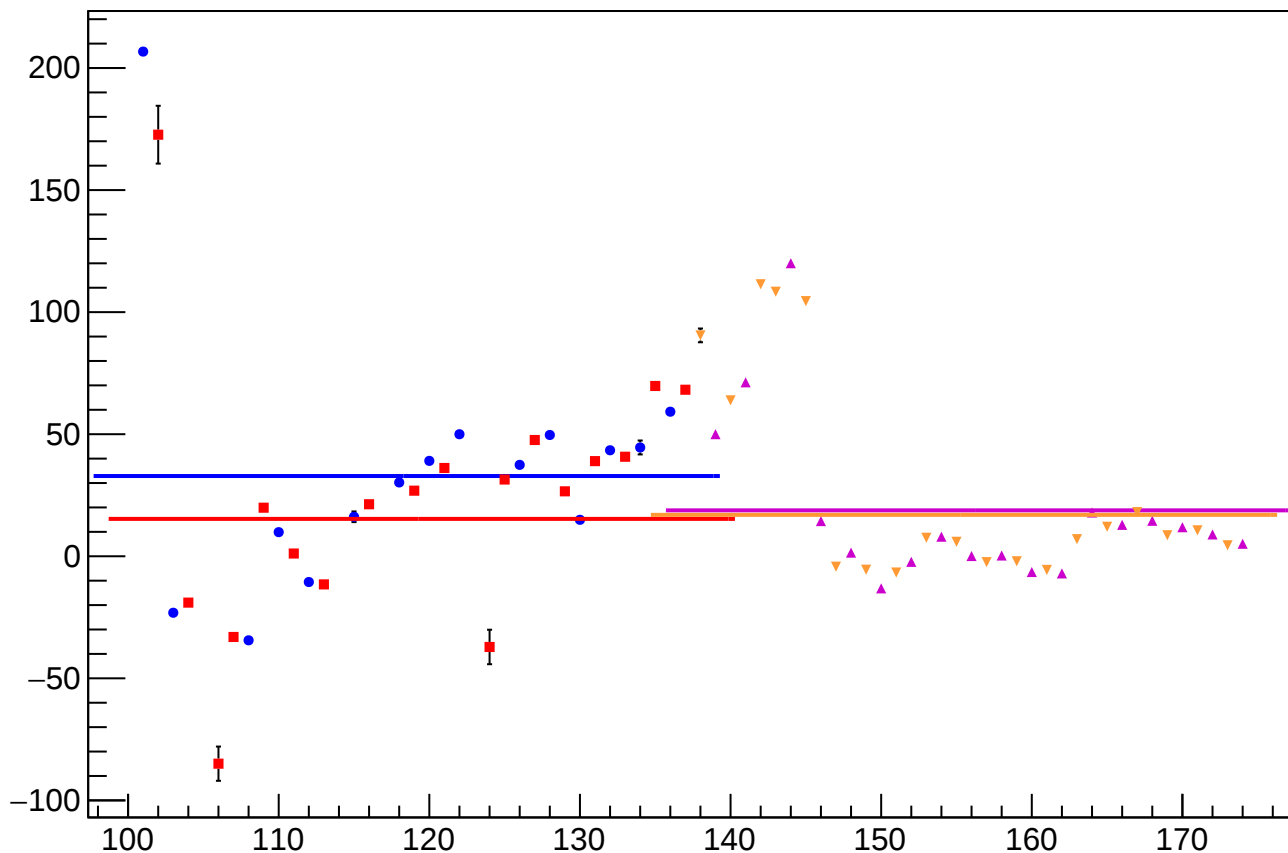
Right:  $-68.980 \pm 0.116$   $\chi^2/\text{NDF}$ : 62576.3/32

In:  $-77.631 \pm 0.095$   $\chi^2/\text{NDF}$ : 92714.8/32

Out:  $-70.598 \pm 0.105$   $\chi^2/\text{NDF}$ : 93364.5/36

All:  $-74.493 \pm 0.070$   $\chi^2/\text{NDF}$ : 188547.7/69

# dit\_atr1\_4eX\_slope vs Slug, Sign Corrected



Right In: 32.869 $\pm$ 0.146  $\chi^2/\text{NDF}$ : 31393.7/14

Left Out: 16.960 $\pm$ 0.110  $\chi^2/\text{NDF}$ : 90889.5/18

Right Out: 15.309 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 16746.0/17

Left In: 18.808 $\pm$ 0.109  $\chi^2/\text{NDF}$ : 89805.2/17

Left: 17.893 $\pm$ 0.078  $\chi^2/\text{NDF}$ : 180836.1/36

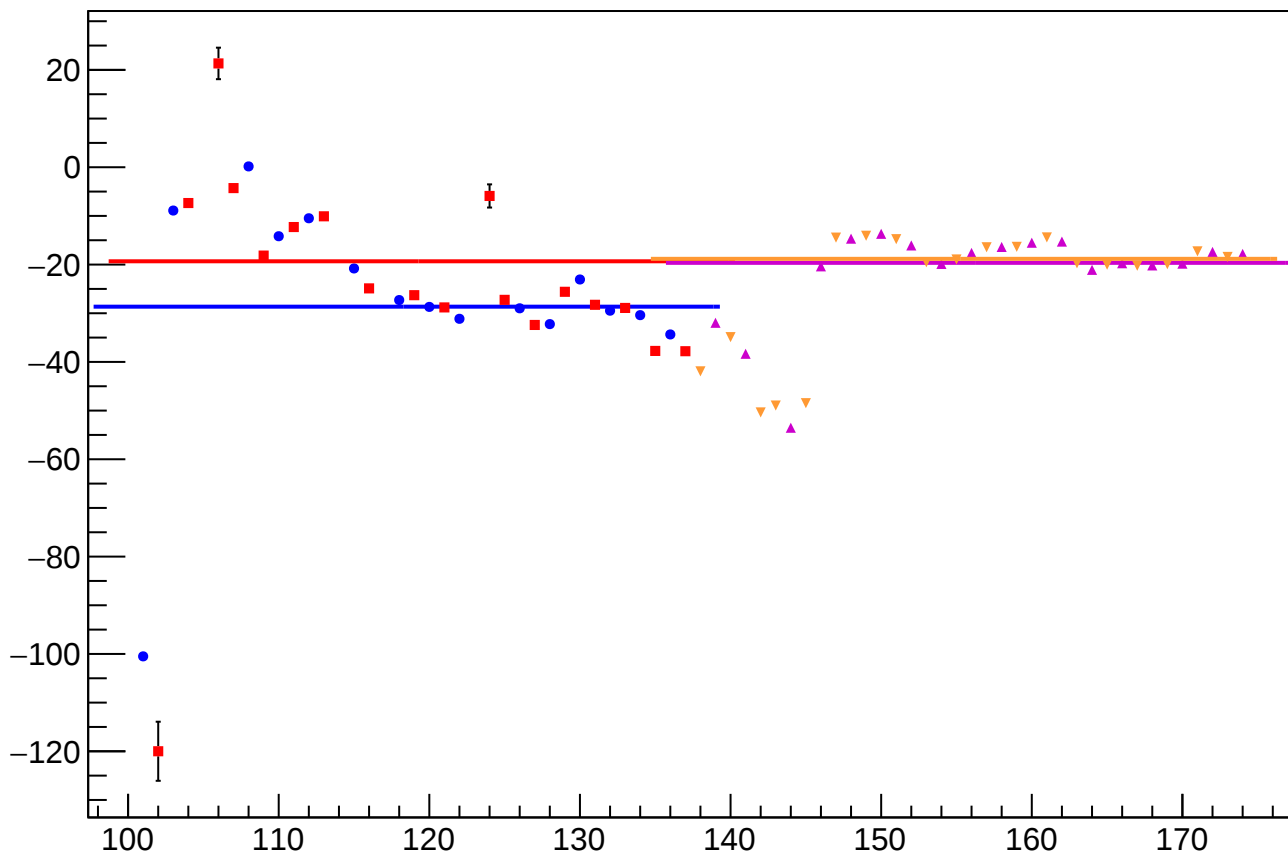
Right: 27.134 $\pm$ 0.120  $\chi^2/\text{NDF}$ : 52862.9/32

In: 23.864 $\pm$ 0.088  $\chi^2/\text{NDF}$ : 127137.1/32

Out: 16.602 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 107684.0/36

All: 20.629 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 237885.4/69

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}: 113441.9/14$

Left Out:  $-18.818 \pm 0.015$   $\chi^2/\text{NDF}: 224975.3/18$

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}: 56579.1/17$

Left In:  $-19.644 \pm 0.015$   $\chi^2/\text{NDF}: 195948.5/17$

Left:  $-19.214 \pm 0.011$   $\chi^2/\text{NDF}: 422424.9/36$

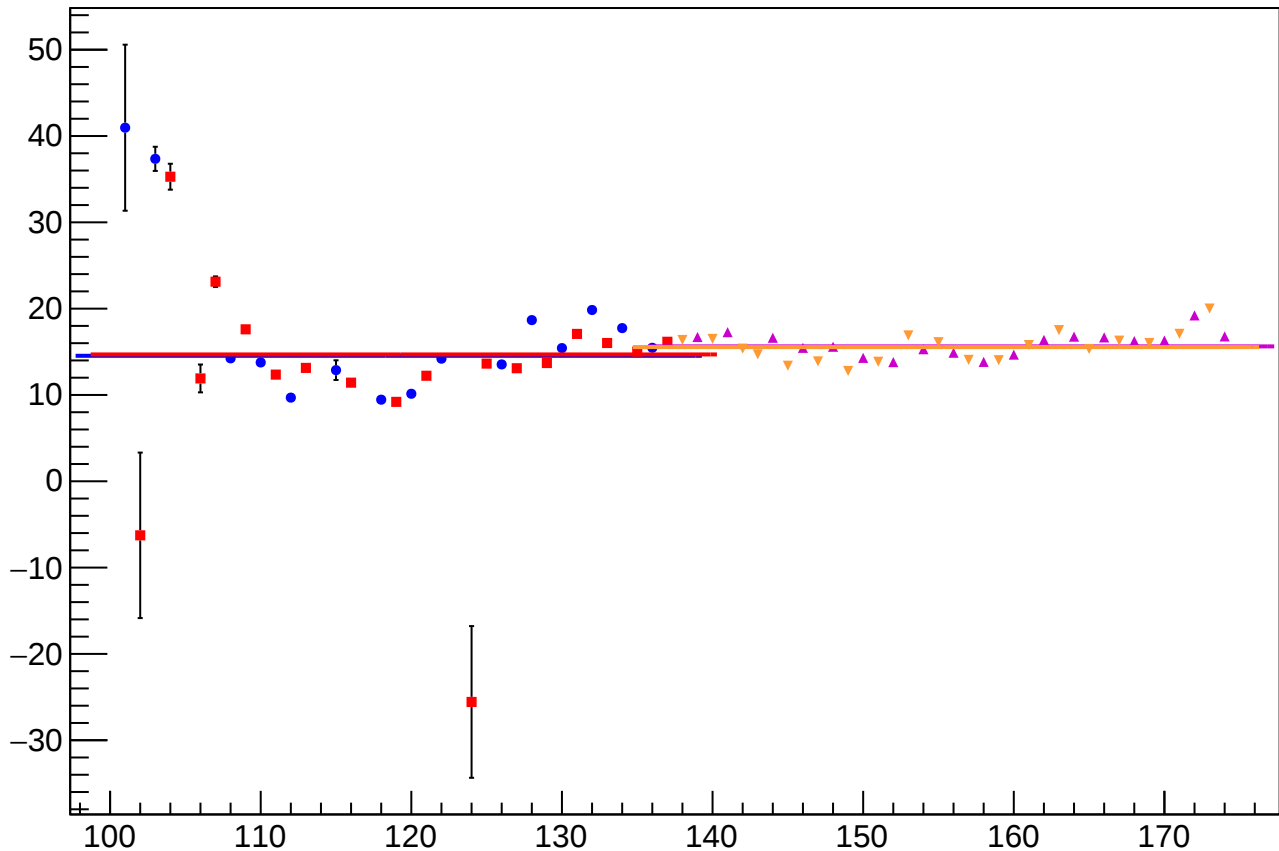
Right:  $-24.627 \pm 0.026$   $\chi^2/\text{NDF}: 201944.0/32$

In:  $-21.156 \pm 0.014$   $\chi^2/\text{NDF}: 366839.6/32$

Out:  $-18.881 \pm 0.014$   $\chi^2/\text{NDF}: 281699.5/36$

All:  $-19.999 \pm 0.010$   $\chi^2/\text{NDF}: 661882.8/69$

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 15.546 $\pm$ 0.015  $\chi^2$ /NDF:9172.1/18

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

Left In: 15.627 $\pm$ 0.015  $\chi^2$ /NDF:6991.6/17

Left: 15.588 $\pm$ 0.010  $\chi^2$ /NDF: 16178.7/36

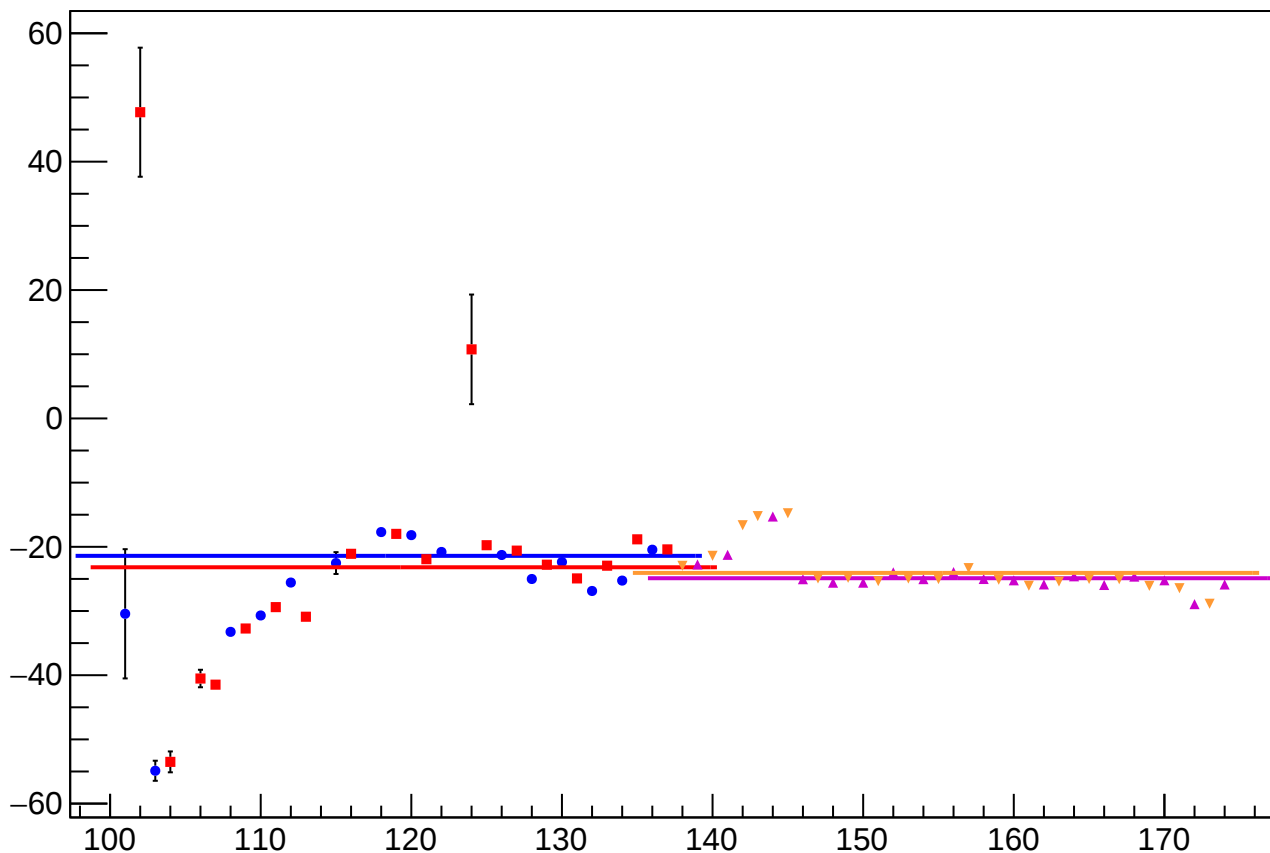
Right: 14.589 $\pm$ 0.025  $\chi^2$ /NDF: 13713.5/32

In: 15.416 $\pm$ 0.013  $\chi^2$ /NDF:20137.8/32

Out: 15.456 $\pm$ 0.014  $\chi^2$ /NDF:11147.4/36

All: 15.435 $\pm$ 0.010  $\chi^2$ /NDF: 31289.5/69

# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-24.063 \pm 0.018$   $\chi^2/\text{NDF}: 37817.2/18$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

Left In:  $-24.893 \pm 0.018$   $\chi^2/\text{NDF}: 11909.1/17$

Left:  $-24.481 \pm 0.012$   $\chi^2/\text{NDF}: 50835.5/36$

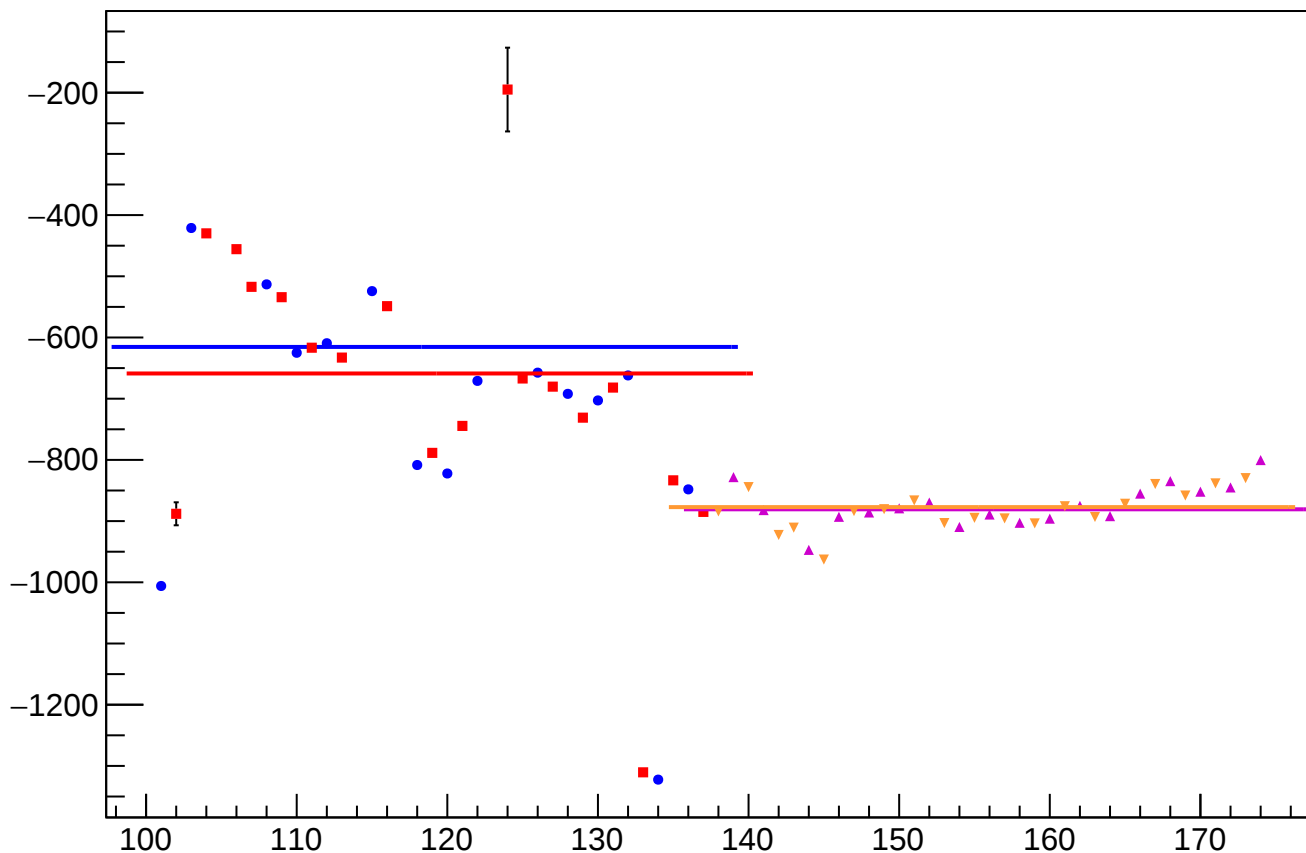
Right:  $-21.987 \pm 0.029$   $\chi^2/\text{NDF}: 19630.5/32$

In:  $-24.210 \pm 0.016$   $\chi^2/\text{NDF}: 29323.2/32$

Out:  $-23.969 \pm 0.017$   $\chi^2/\text{NDF}: 47206.7/36$

All:  $-24.097 \pm 0.011$   $\chi^2/\text{NDF}: 76640.1/69$

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In: -615.419+/-0.238  $\chi^2/\text{NDF}$ : 382819.1/14

Left Out: -877.147+/-0.141  $\chi^2/\text{NDF}$ : 38794.7/18

Right Out: -658.787+/-0.256  $\chi^2/\text{NDF}$ : 385262.6/17

Left In: -880.730+/-0.137  $\chi^2/\text{NDF}$ : 42737.2/17

Left: -878.991+/-0.098  $\chi^2/\text{NDF}$ : 81862.9/36

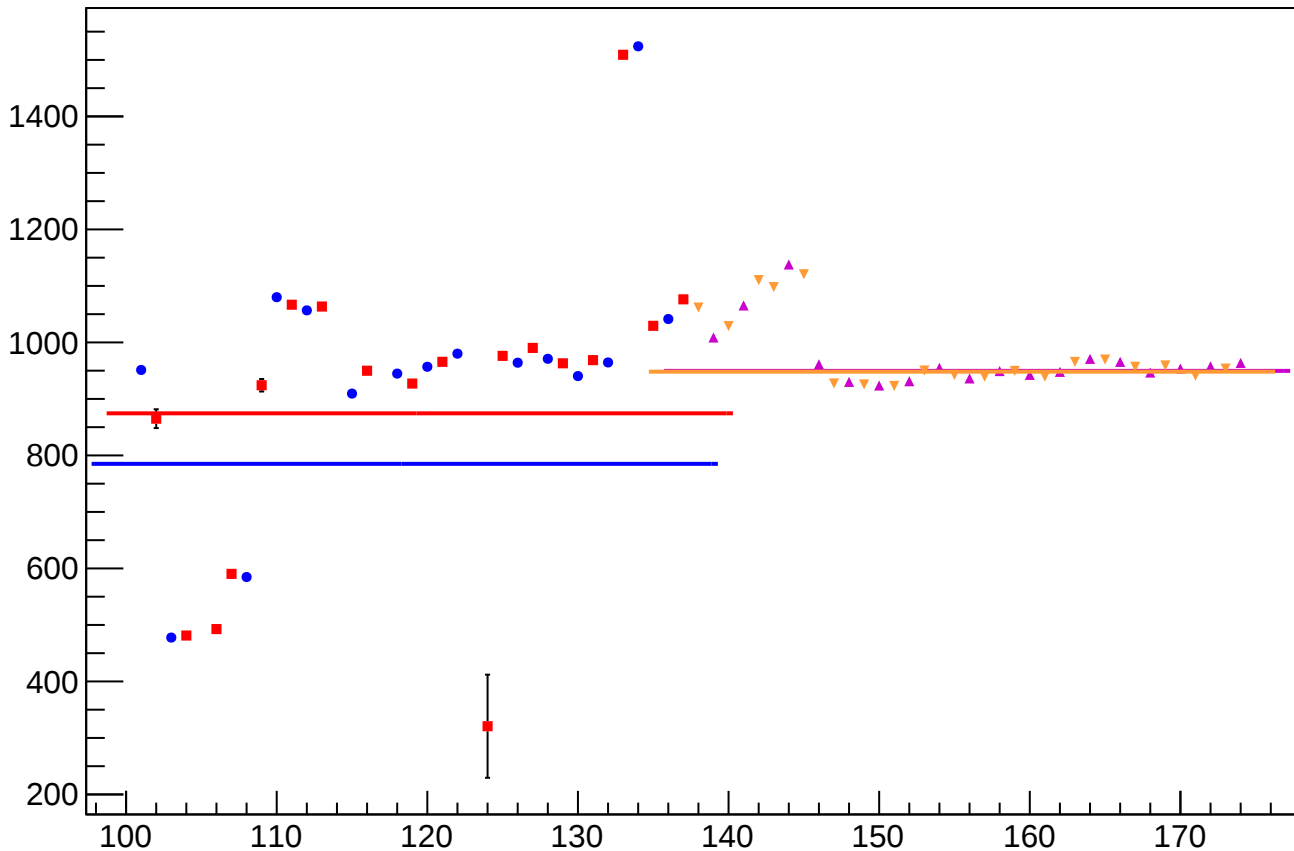
Right: -635.464+/-0.174  $\chi^2/\text{NDF}$ : 783480.4/32

In: -814.352+/-0.119  $\chi^2/\text{NDF}$ : 1360447.6/32

Out: -826.235+/-0.124  $\chi^2/\text{NDF}$ : 980689.3/36

All: -820.053+/-0.086  $\chi^2/\text{NDF}$ : 2345933.9/69

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 785.095 $\pm$ 0.228  $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 948.254 $\pm$ 0.116  $\chi^2/\text{NDF}$ : 71844.3/18

Right Out: 874.516 $\pm$ 0.261  $\chi^2/\text{NDF}$ : 842565.5/17

Left In: 949.654 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 76130.6/17

Left: 948.972 $\pm$ 0.081  $\chi^2/\text{NDF}$ : 148049.7/36

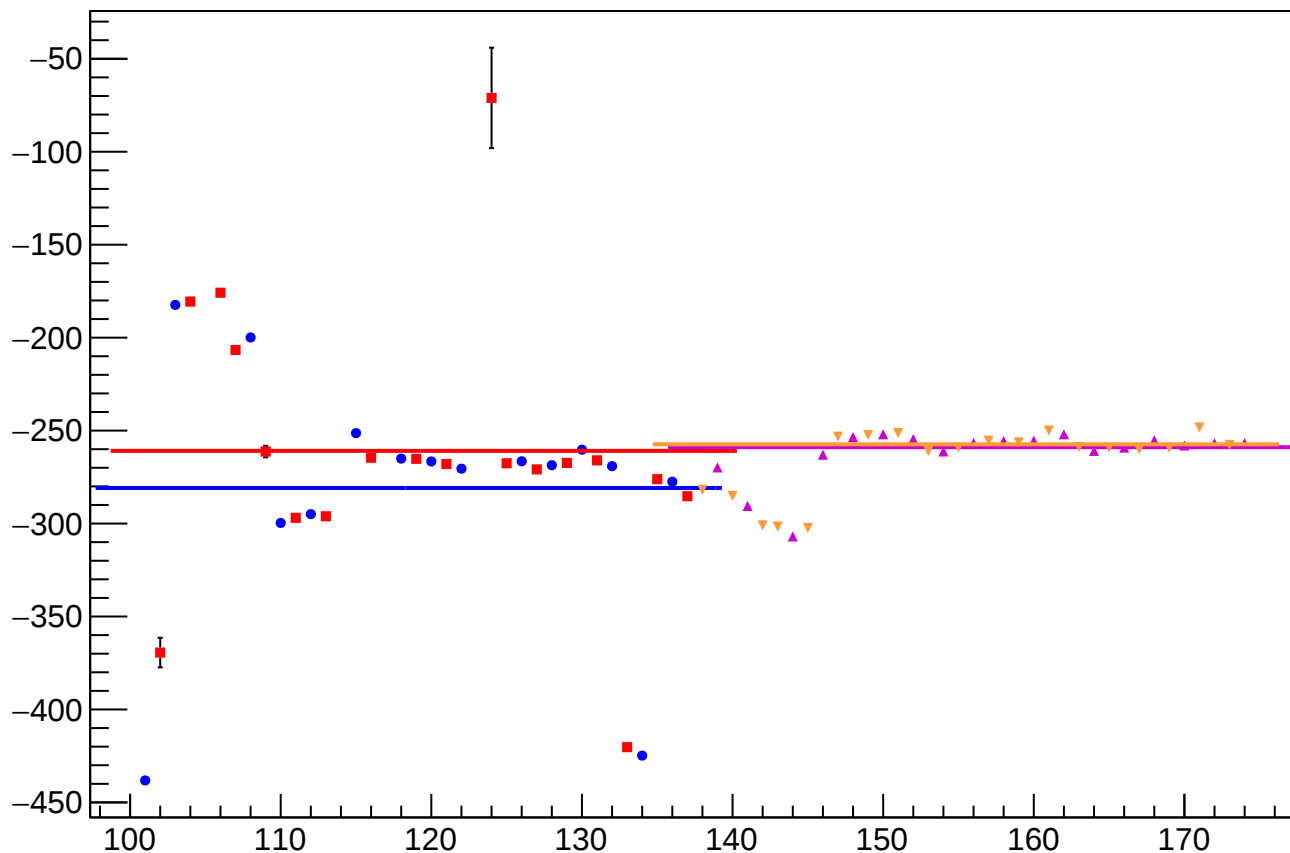
Right: 823.762 $\pm$ 0.172  $\chi^2/\text{NDF}$ : 1795202.4/32

In: 917.213 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 1380363.9/32

Out: 936.133 $\pm$ 0.106  $\chi^2/\text{NDF}$ : 980974.7/36

All: 926.246 $\pm$ 0.073  $\chi^2/\text{NDF}$ : 2378010.2/69

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In: -280.856+/-0.059  $\chi^2/\text{NDF}$ : 873611.1/14

Left Out: -257.373+/-0.021  $\chi^2/\text{NDF}$ : 174867.8/18

Right Out: -260.897+/-0.068  $\chi^2/\text{NDF}$ : 347717.5/17

Left In: -258.919+/-0.020  $\chi^2/\text{NDF}$ : 189125.3/17

Left: -258.166+/-0.014  $\chi^2/\text{NDF}$ : 366850.7/36

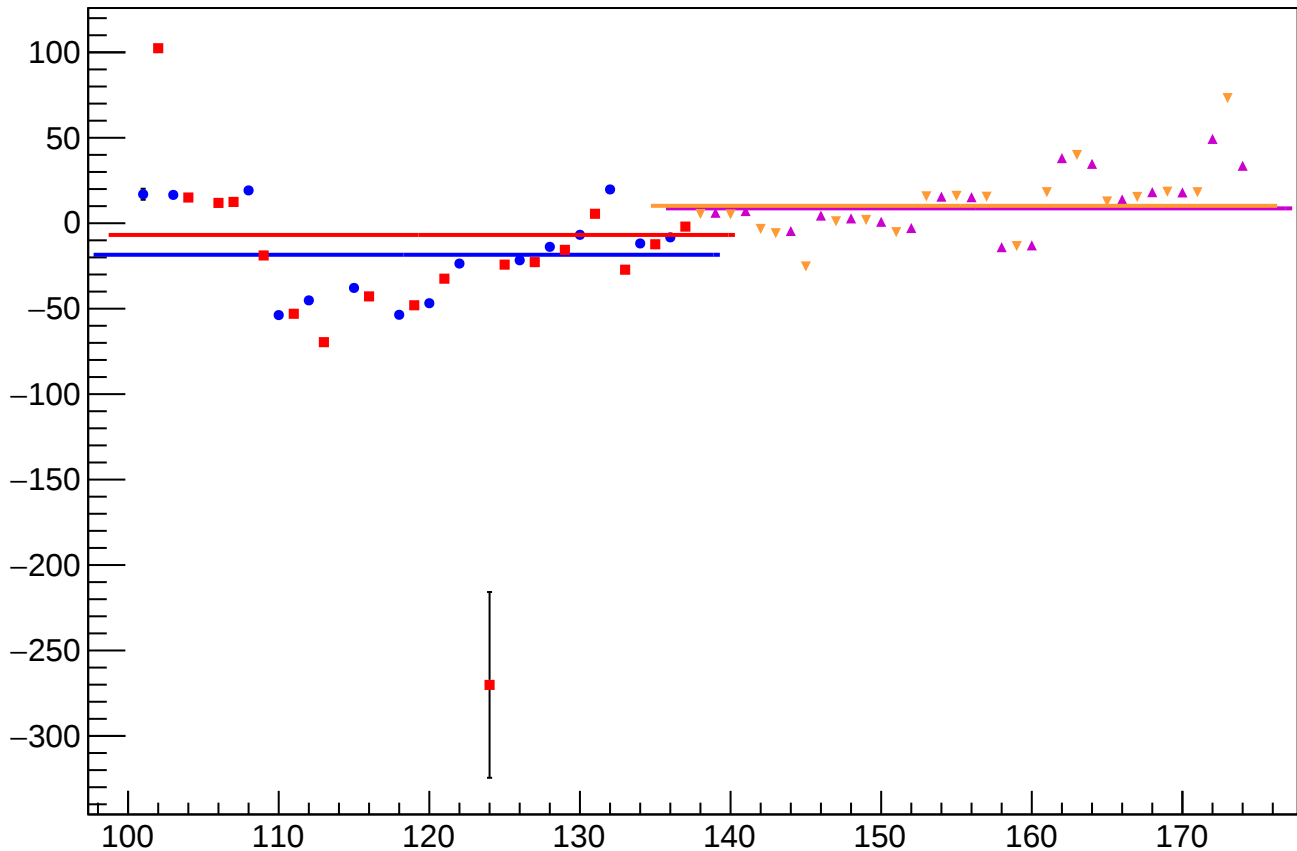
Right: -272.298+/-0.044  $\chi^2/\text{NDF}$ : 1271185.3/32

In: -261.248+/-0.019  $\chi^2/\text{NDF}$ : 1188290.4/32

Out: -257.676+/-0.020  $\chi^2/\text{NDF}$ : 525072.1/36

All: -259.529+/-0.014  $\chi^2/\text{NDF}$ : 1730238.7/69

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}: 46574.6/14$

Left Out:  $10.195 \pm 0.021$   $\chi^2/\text{NDF}: 416344.9/18$

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}: 50023.0/17$

Left In:  $8.696 \pm 0.020$   $\chi^2/\text{NDF}: 558874.5/17$

Left:  $9.408 \pm 0.014$   $\chi^2/\text{NDF}: 977899.1/36$

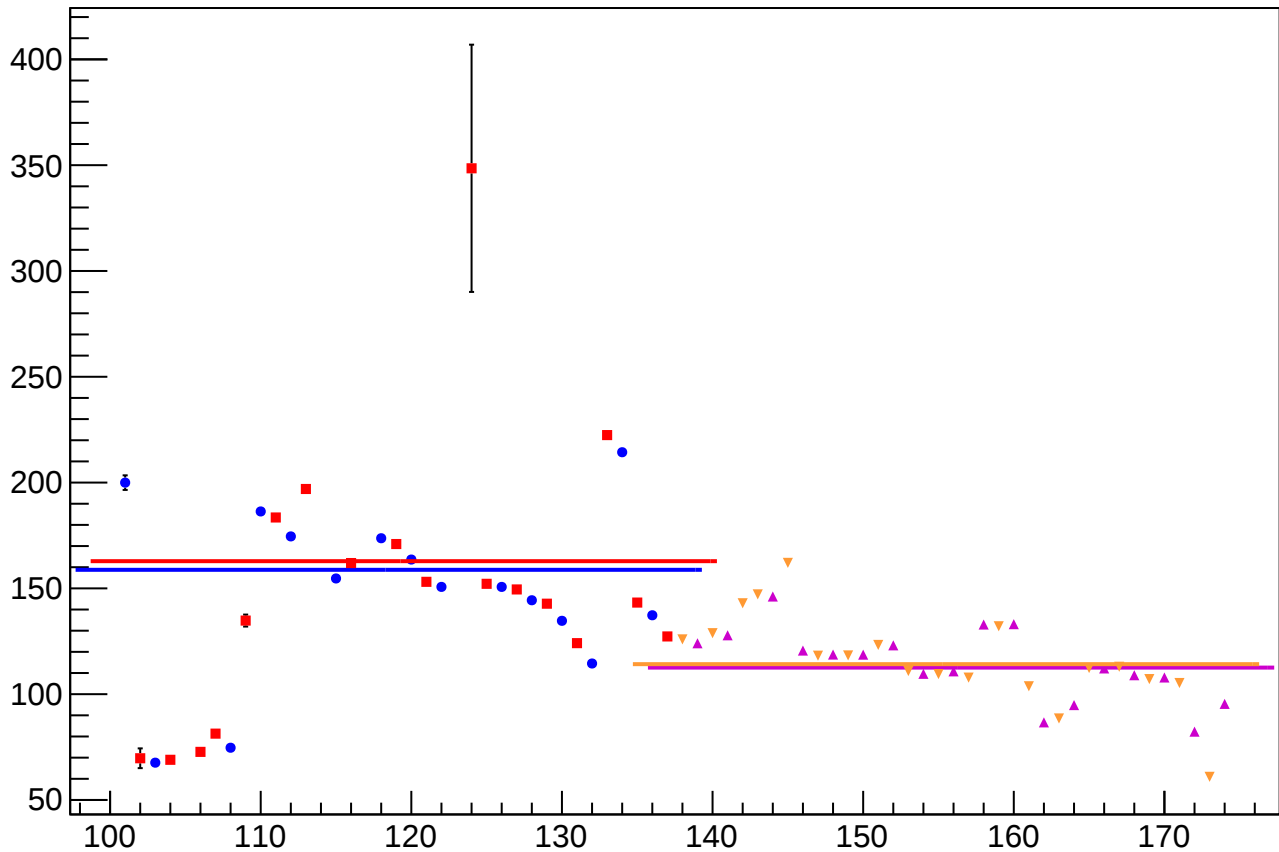
Right:  $-10.715 \pm 0.053$   $\chi^2/\text{NDF}: 107378.5/32$

In:  $7.459 \pm 0.019$   $\chi^2/\text{NDF}: 689890.1/32$

Out:  $8.569 \pm 0.020$   $\chi^2/\text{NDF}: 529342.2/36$

All:  $8.001 \pm 0.014$   $\chi^2/\text{NDF}: 1220816.8/69$

# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 114.184 $\pm$ 0.025  $\chi^2$ /NDF: 236348.2/18

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

Left In: 112.558 $\pm$ 0.021  $\chi^2$ /NDF: 385775.7/17

Left: 113.242 $\pm$ 0.016  $\chi^2$ /NDF: 624538.3/36

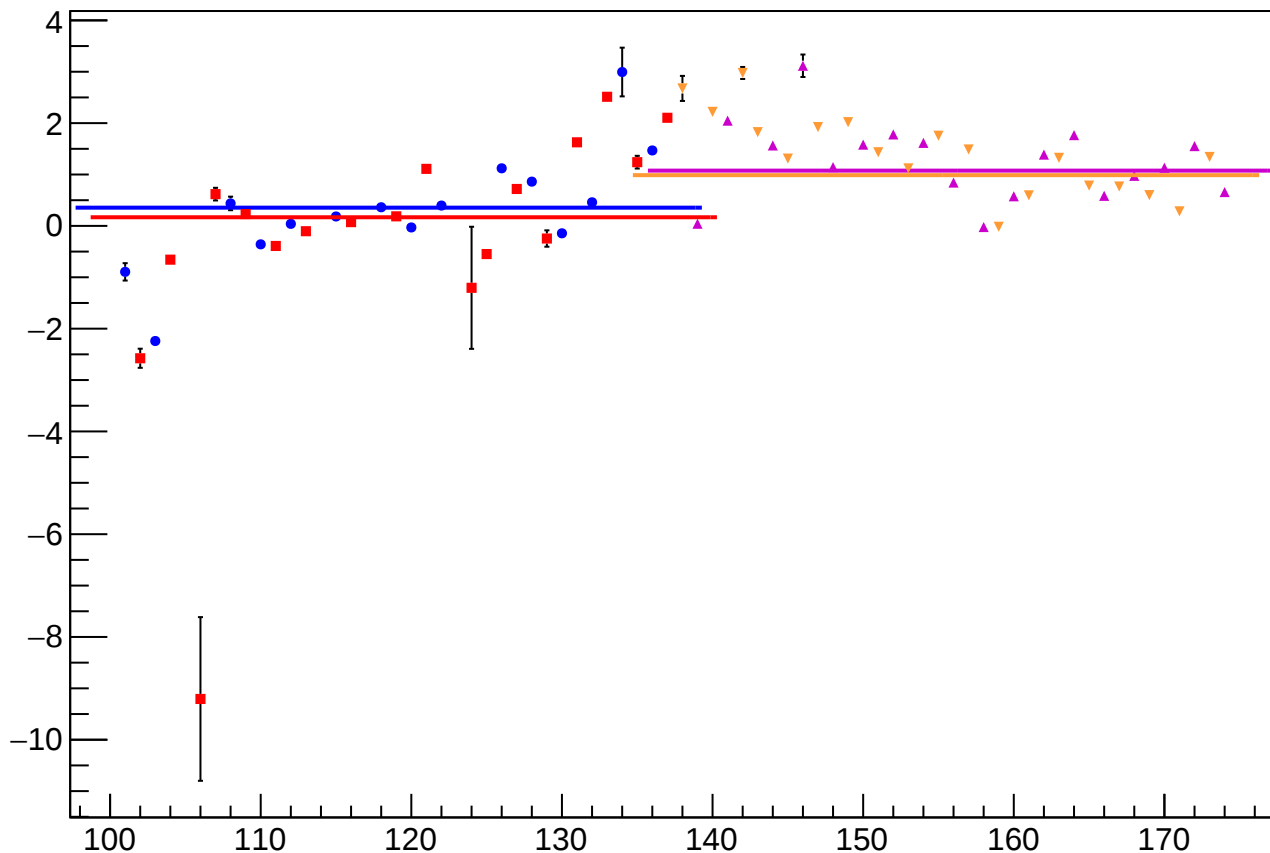
Right: 160.702 $\pm$ 0.064  $\chi^2$ /NDF: 316204.3/32

In: 115.137 $\pm$ 0.021  $\chi^2$ /NDF: 803376.5/32

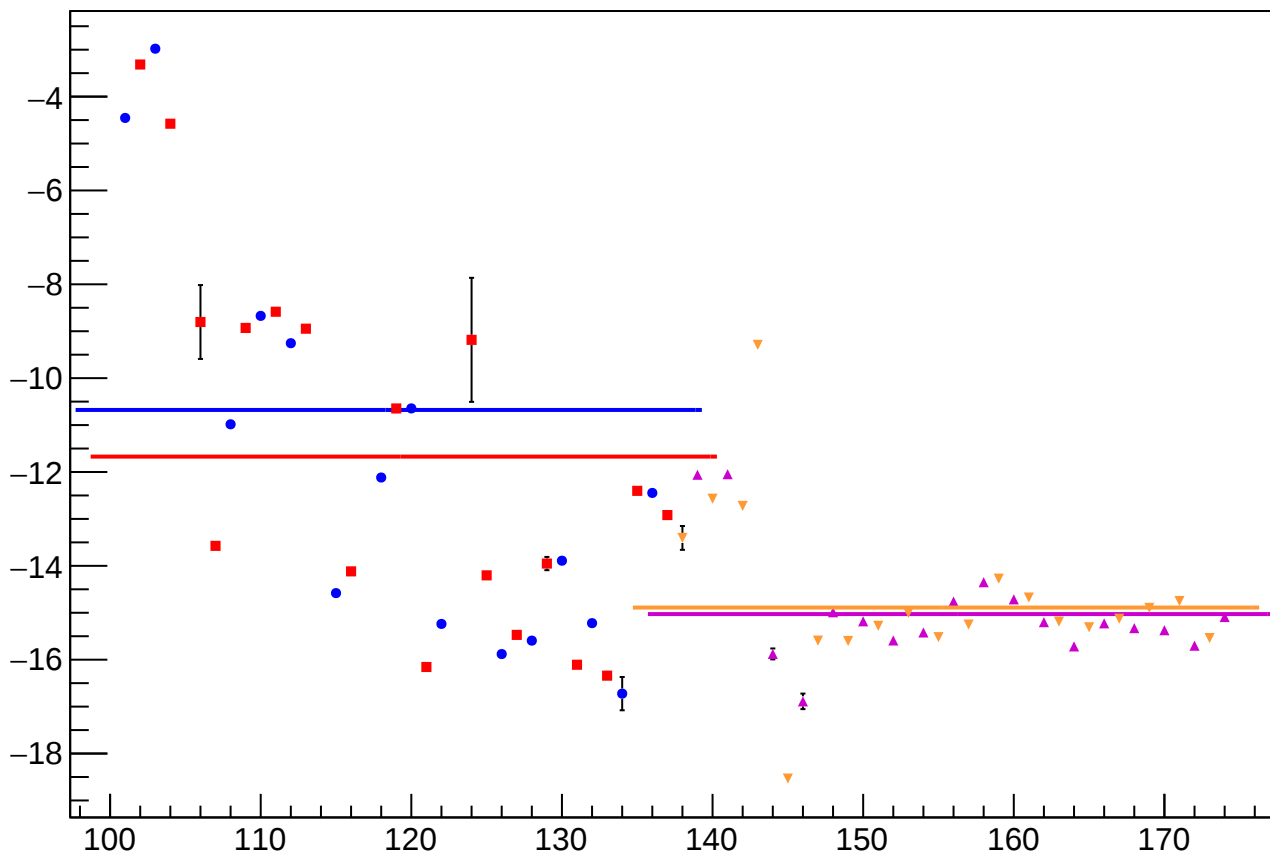
Out: 117.490 $\pm$ 0.024  $\chi^2$ /NDF: 646360.7/36

All: 116.135 $\pm$ 0.016  $\chi^2$ /NDF: 1455136.7/69

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.889 \pm 0.007$   $\chi^2/\text{NDF}: 31710.2/18$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

Left In:  $-15.028 \pm 0.006$   $\chi^2/\text{NDF}: 12906.7/17$

Left:  $-14.964 \pm 0.005$   $\chi^2/\text{NDF}: 44841.0/36$

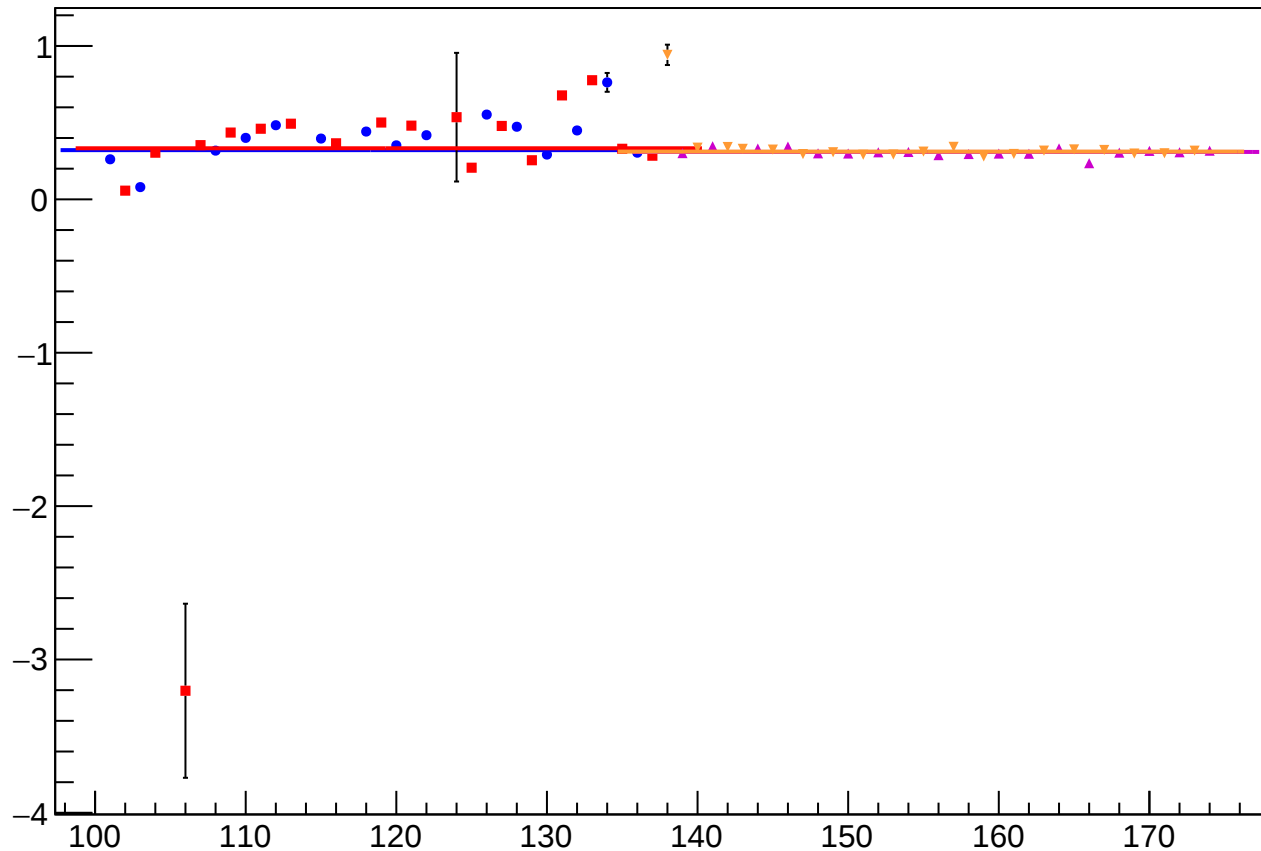
Right:  $-11.113 \pm 0.008$   $\chi^2/\text{NDF}: 338735.1/32$

In:  $-13.840 \pm 0.005$   $\chi^2/\text{NDF}: 369920.3/32$

Out:  $-14.063 \pm 0.006$   $\chi^2/\text{NDF}: 196303.8/36$

All:  $-13.941 \pm 0.004$   $\chi^2/\text{NDF}: 567002.1/69$

# dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.321+/-0.001  $\chi^2/\text{NDF}$ : 4017.7/14

Left Out: 0.311+/-0.000  $\chi^2/\text{NDF}$ : 4704.7/18

Right Out: 0.333+/-0.001  $\chi^2/\text{NDF}$ : 4170.0/17

Left In: 0.309+/-0.000  $\chi^2/\text{NDF}$ : 2728.8/17

Left: 0.310+/-0.000  $\chi^2/\text{NDF}$ : 7472.0/36

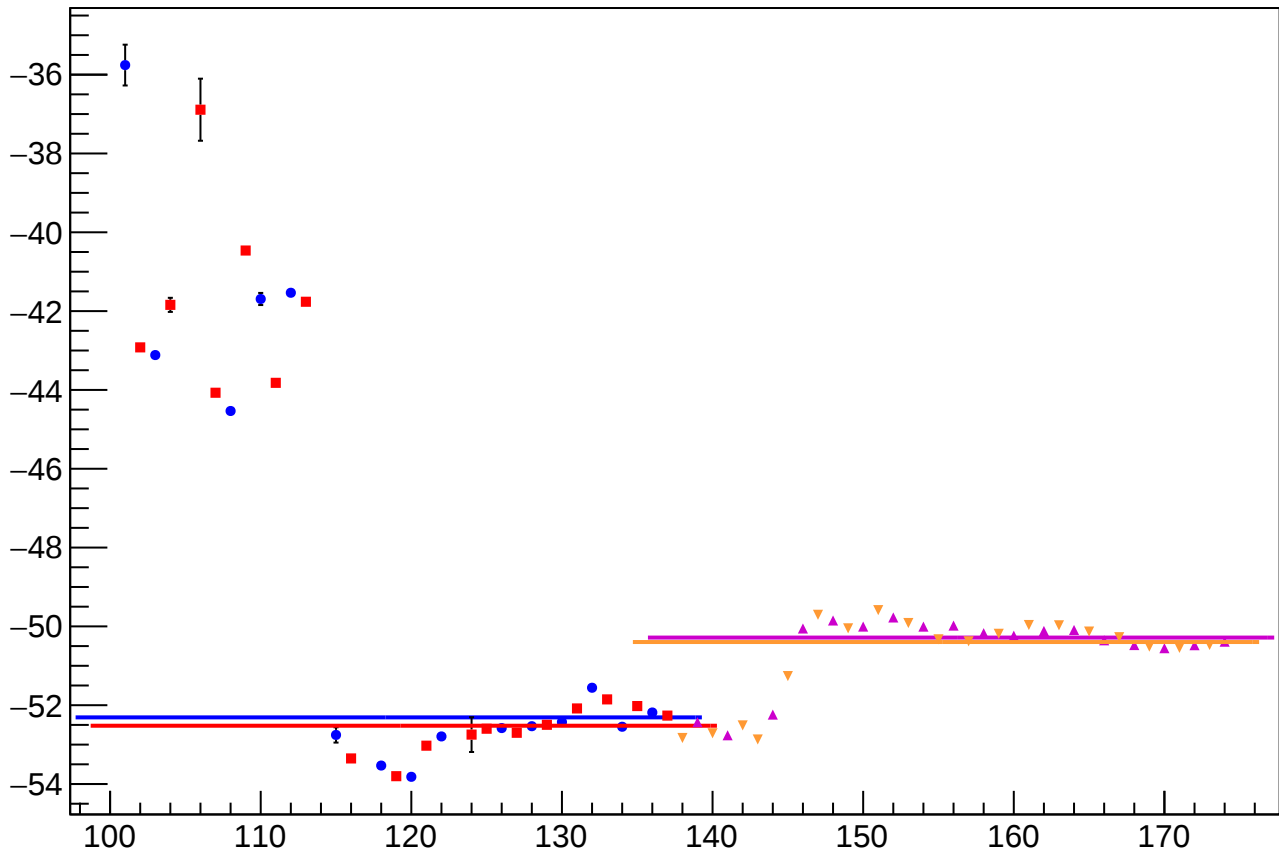
Right: 0.325+/-0.001  $\chi^2/\text{NDF}$ : 8247.8/32

In: 0.310+/-0.000  $\chi^2/\text{NDF}$ : 6893.7/32

Out: 0.312+/-0.000  $\chi^2/\text{NDF}$ : 9164.4/36

All: 0.311+/-0.000  $\chi^2/\text{NDF}$ : 16099.8/69

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}$ : 53459.2/14

Left Out:  $-50.397 \pm 0.002$   $\chi^2/\text{NDF}$ : 228426.7/18

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}$ : 76616.3/17

Left In:  $-50.284 \pm 0.001$   $\chi^2/\text{NDF}$ : 165455.0/17

Left:  $-50.331 \pm 0.001$   $\chi^2/\text{NDF}$ : 396992.0/36

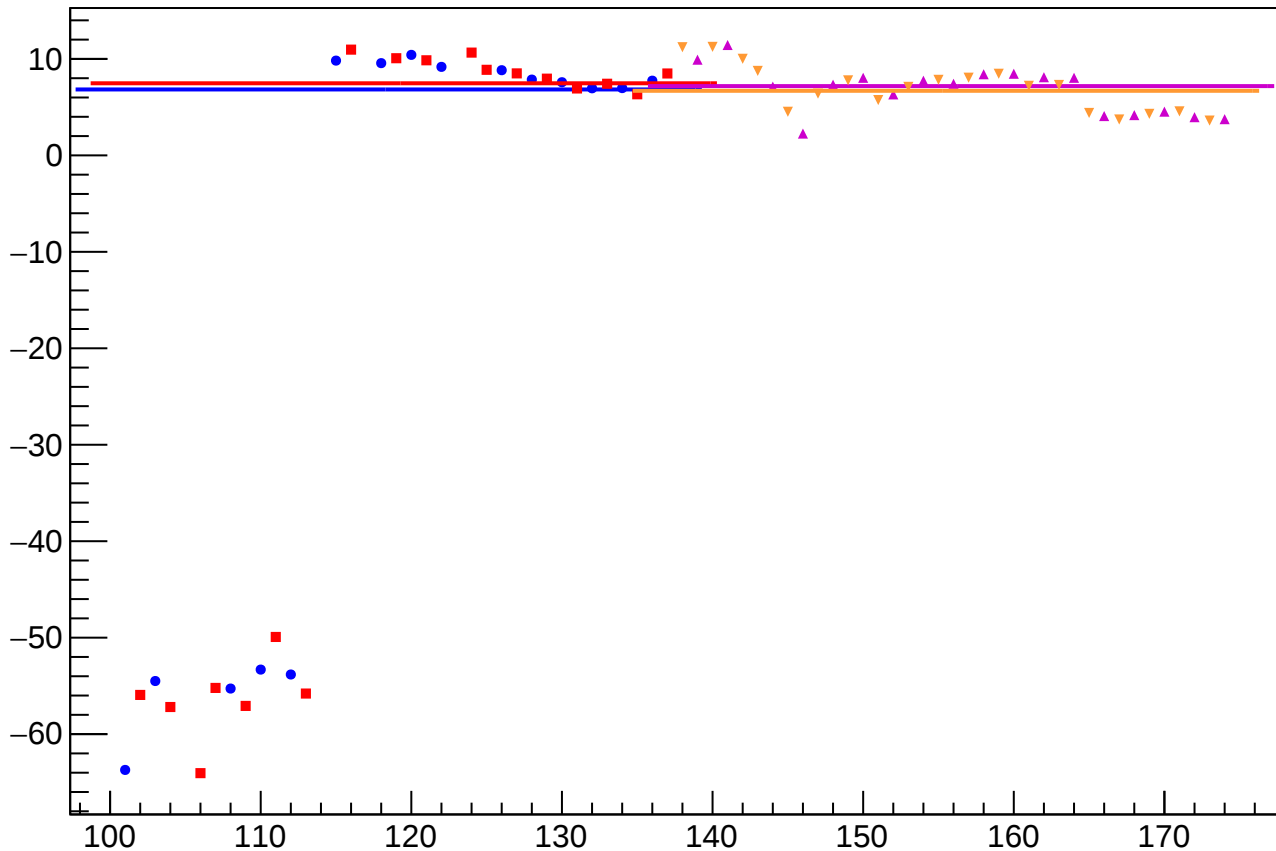
Right:  $-52.410 \pm 0.003$   $\chi^2/\text{NDF}$ : 131177.9/32

In:  $-50.448 \pm 0.001$   $\chi^2/\text{NDF}$ : 412404.6/32

Out:  $-50.612 \pm 0.001$   $\chi^2/\text{NDF}$ : 496268.3/36

All:  $-50.517 \pm 0.001$   $\chi^2/\text{NDF}$ : 915904.0/69

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In: 6.834+/-0.005  $\chi^2/\text{NDF}$ : 990576.4/14

Left Out: 6.695+/-0.004  $\chi^2/\text{NDF}$ : 317053.4/18

Right Out: 7.474+/-0.009  $\chi^2/\text{NDF}$ : 1195498.7/17

Left In: 7.182+/-0.003  $\chi^2/\text{NDF}$ : 197186.4/17

Left: 6.957+/-0.003  $\chi^2/\text{NDF}$ : 523248.7/36

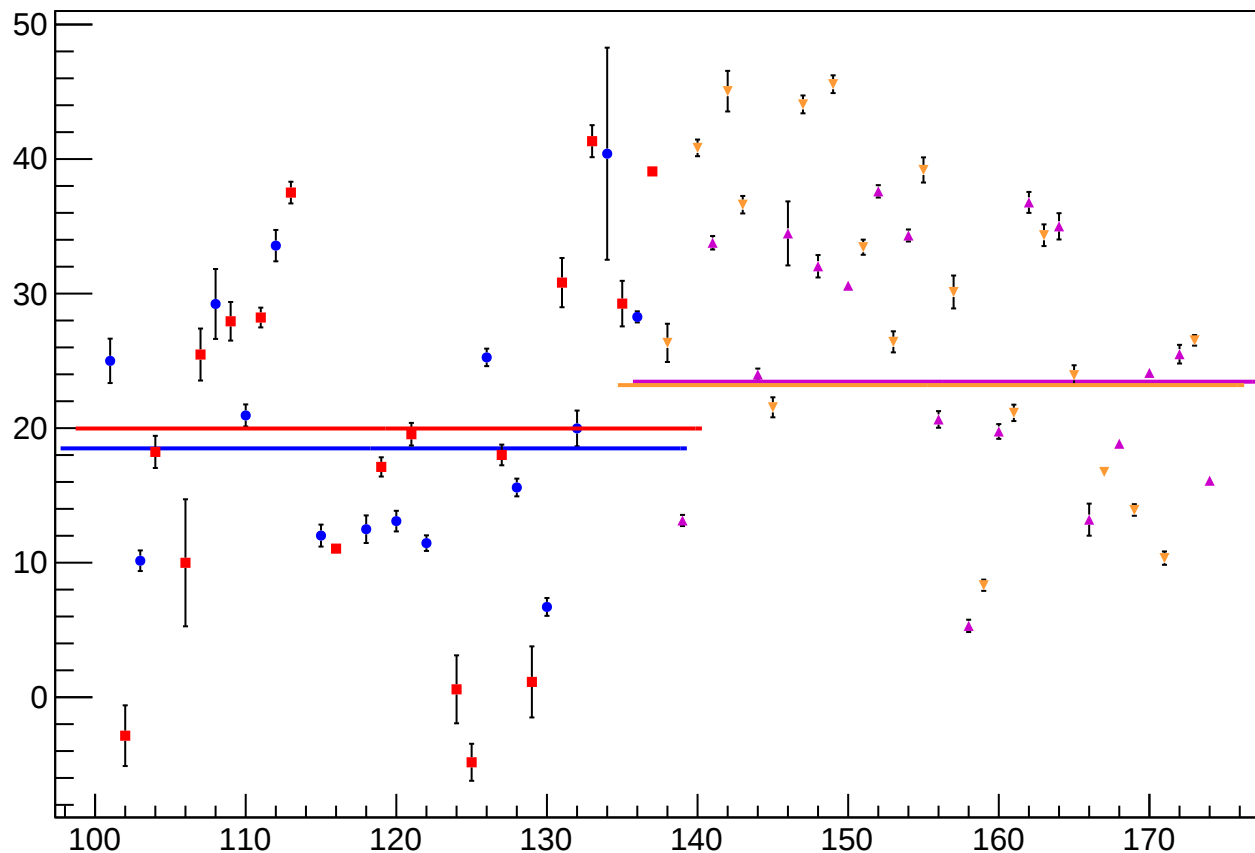
Right: 6.980+/-0.004  $\chi^2/\text{NDF}$ : 2189734.1/32

In: 7.070+/-0.003  $\chi^2/\text{NDF}$ : 1190972.6/32

Out: 6.805+/-0.003  $\chi^2/\text{NDF}$ : 1518581.9/36

All: 6.963+/-0.002  $\chi^2/\text{NDF}$ : 2713003.0/69

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In: 18.496 $\pm$ 0.200  $\chi^2$ /NDF: 1636.7/14

Left Out: 23.198 $\pm$ 0.128  $\chi^2$ /NDF: 7532.2/18

Right Out: 19.974 $\pm$ 0.130  $\chi^2$ /NDF: 9201.3/17

Left In: 23.452 $\pm$ 0.109  $\chi^2$ /NDF: 6112.5/17

Left: 23.345 $\pm$ 0.083  $\chi^2$ /NDF: 13647.0/36

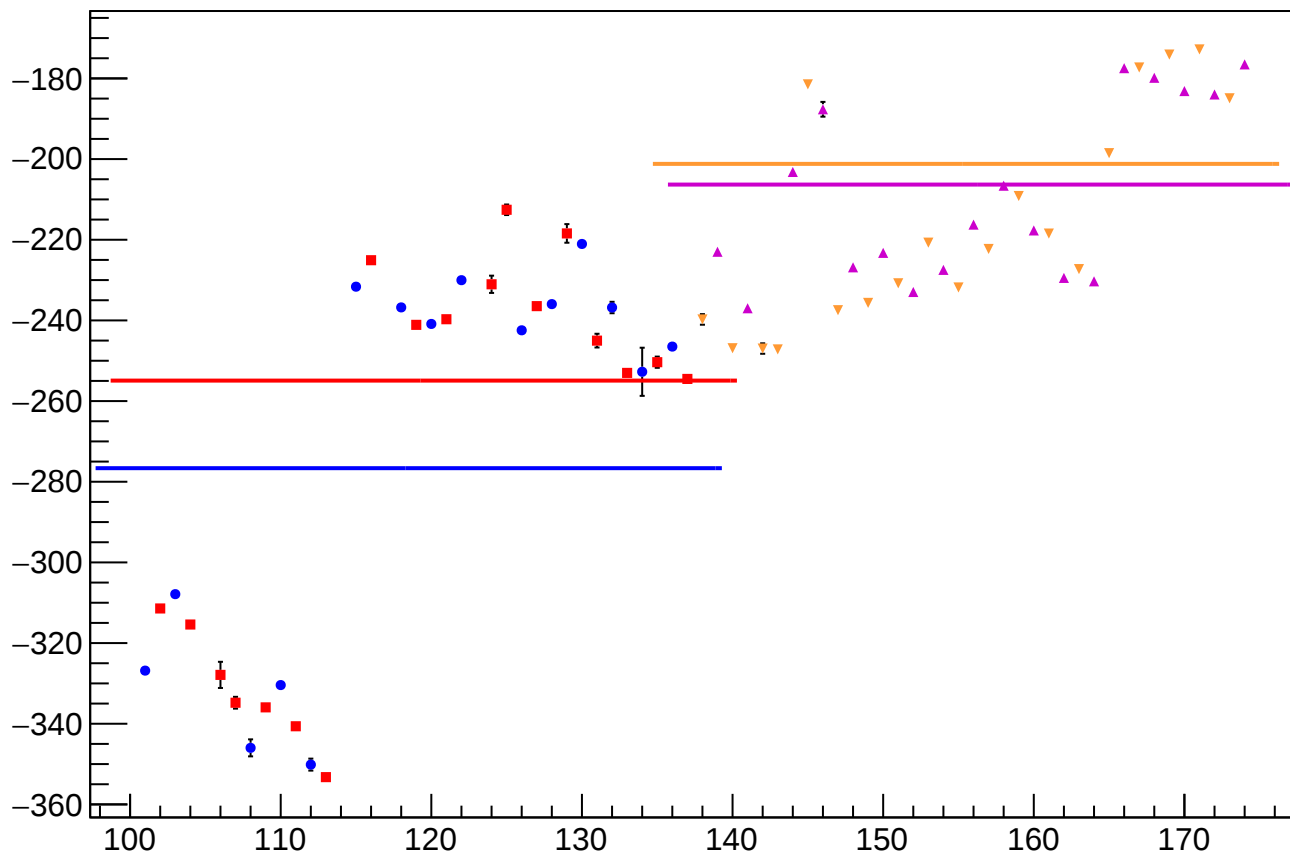
Right: 19.534 $\pm$ 0.109  $\chi^2$ /NDF: 10876.3/32

In: 22.318 $\pm$ 0.096  $\chi^2$ /NDF: 8222.5/32

Out: 21.611 $\pm$ 0.091  $\chi^2$ /NDF: 17044.9/36

All: 21.948 $\pm$ 0.066  $\chi^2$ /NDF: 25296.1/69

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-276.636 \pm 0.148$   $\chi^2/\text{NDF}: 77119.6/14$

Left Out:  $-201.188 \pm 0.107$   $\chi^2/\text{NDF}: 61810.6/18$

Right Out:  $-254.921 \pm 0.071$   $\chi^2/\text{NDF}: 71945.8/17$

Left In:  $-206.320 \pm 0.095$   $\chi^2/\text{NDF}: 53851.3/17$

Left:  $-204.047 \pm 0.071$   $\chi^2/\text{NDF}: 116949.6/36$

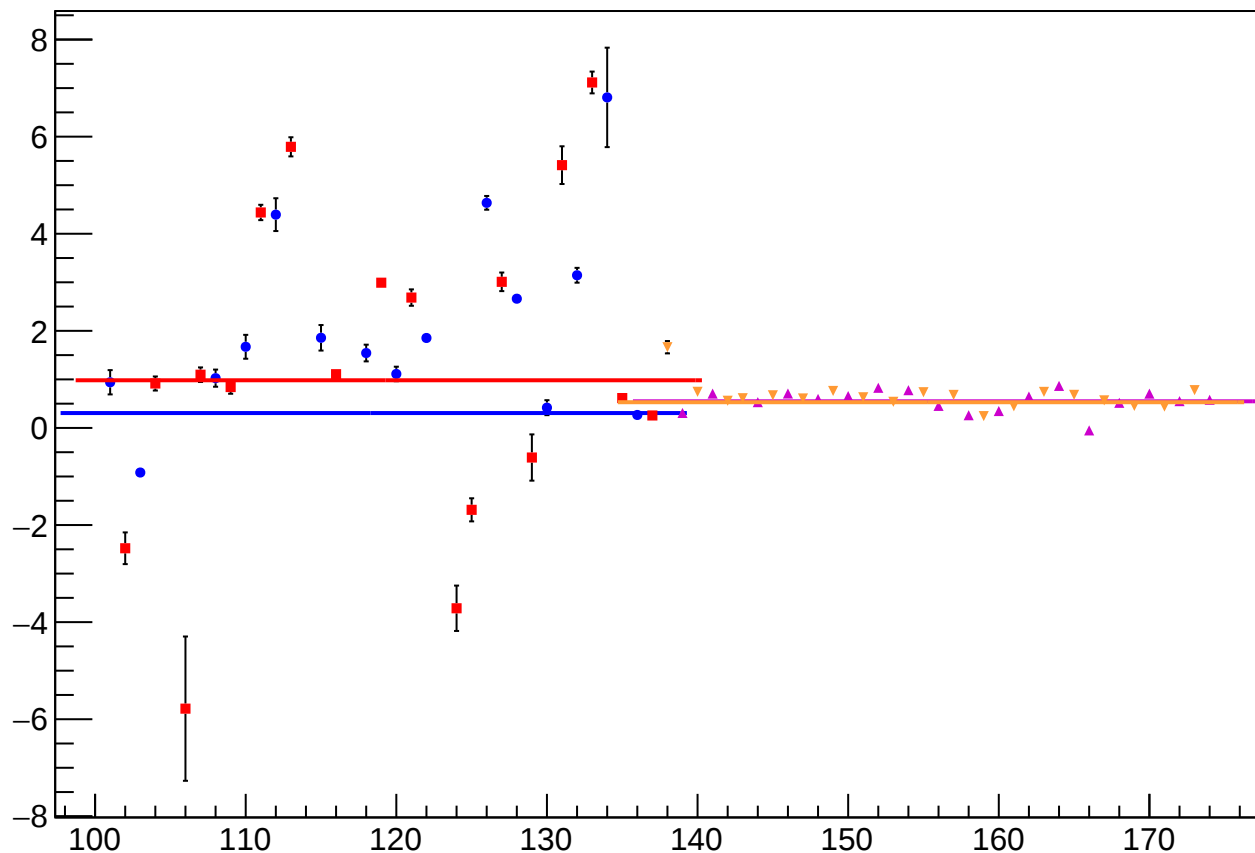
Right:  $-259.025 \pm 0.064$   $\chi^2/\text{NDF}: 166632.3/32$

In:  $-226.982 \pm 0.080$   $\chi^2/\text{NDF}: 291355.3/32$

Out:  $-238.364 \pm 0.059$   $\chi^2/\text{NDF}: 309107.2/36$

All:  $-234.332 \pm 0.048$   $\chi^2/\text{NDF}: 613539.4/69$

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.307 $\pm$ 0.007  $\chi^2$ /NDF: 2787.0/14

Left Out: 0.530 $\pm$ 0.002  $\chi^2$ /NDF:9585.9/18

Right Out: 0.982 $\pm$ 0.015  $\chi^2$ /NDF: 3374.7/17

Left In: 0.549 $\pm$ 0.002  $\chi^2$ /NDF:14153.4/17

Left: 0.541 $\pm$ 0.001  $\chi^2$ /NDF: 23792.2/36

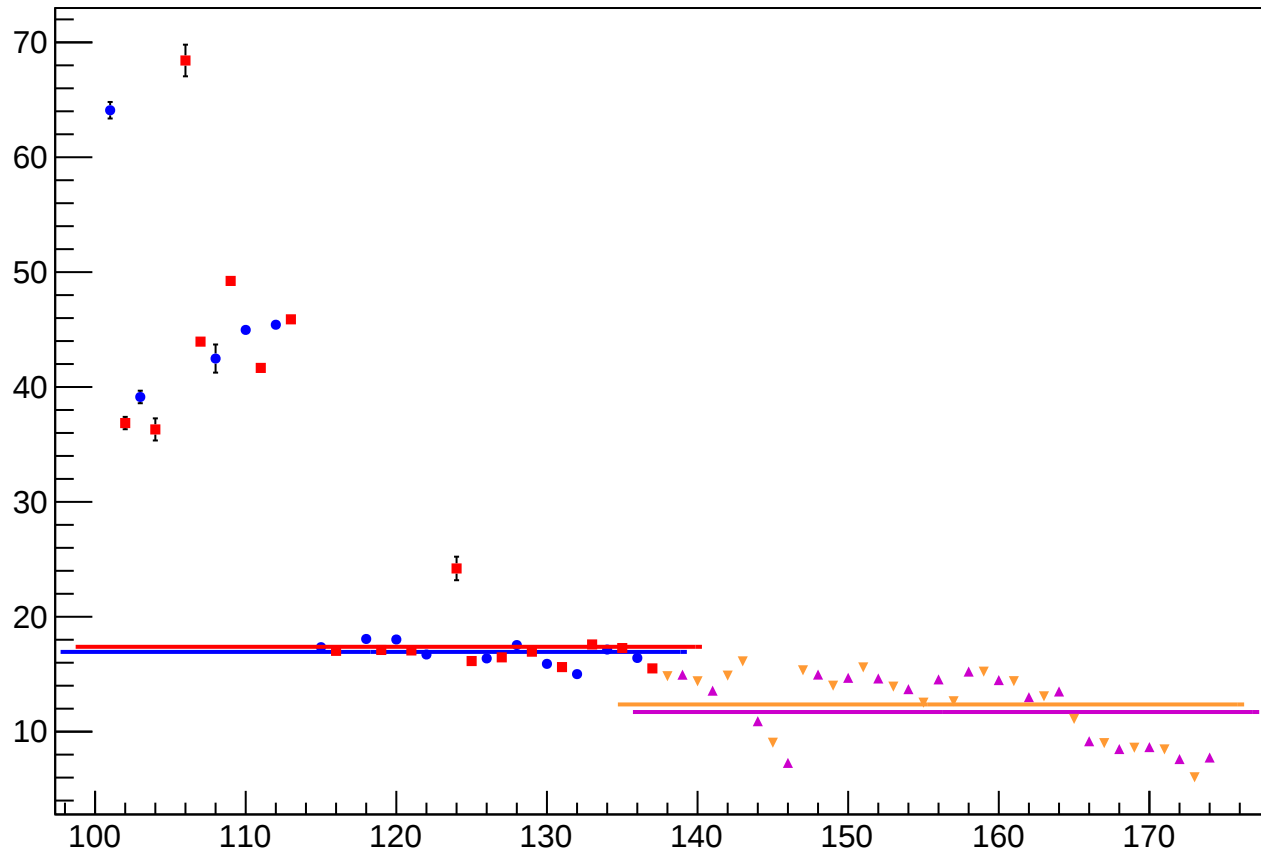
Right: 0.421 $\pm$ 0.006  $\chi^2$ /NDF: 7919.2/32

In: 0.534 $\pm$ 0.002  $\chi^2$ /NDF:18189.8/32

Out: 0.538 $\pm$ 0.002  $\chi^2$ /NDF:13892.4/36

All: 0.536 $\pm$ 0.001  $\chi^2$ /NDF: 32084.5/69

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}$ : 29019.8/14

Left Out:  $12.367 \pm 0.008$   $\chi^2/\text{NDF}$ : 166131.6/18

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}$ : 61131.5/17

Left In:  $11.709 \pm 0.007$   $\chi^2/\text{NDF}$ : 183388.2/17

Left:  $12.009 \pm 0.005$   $\chi^2/\text{NDF}$ : 353294.7/36

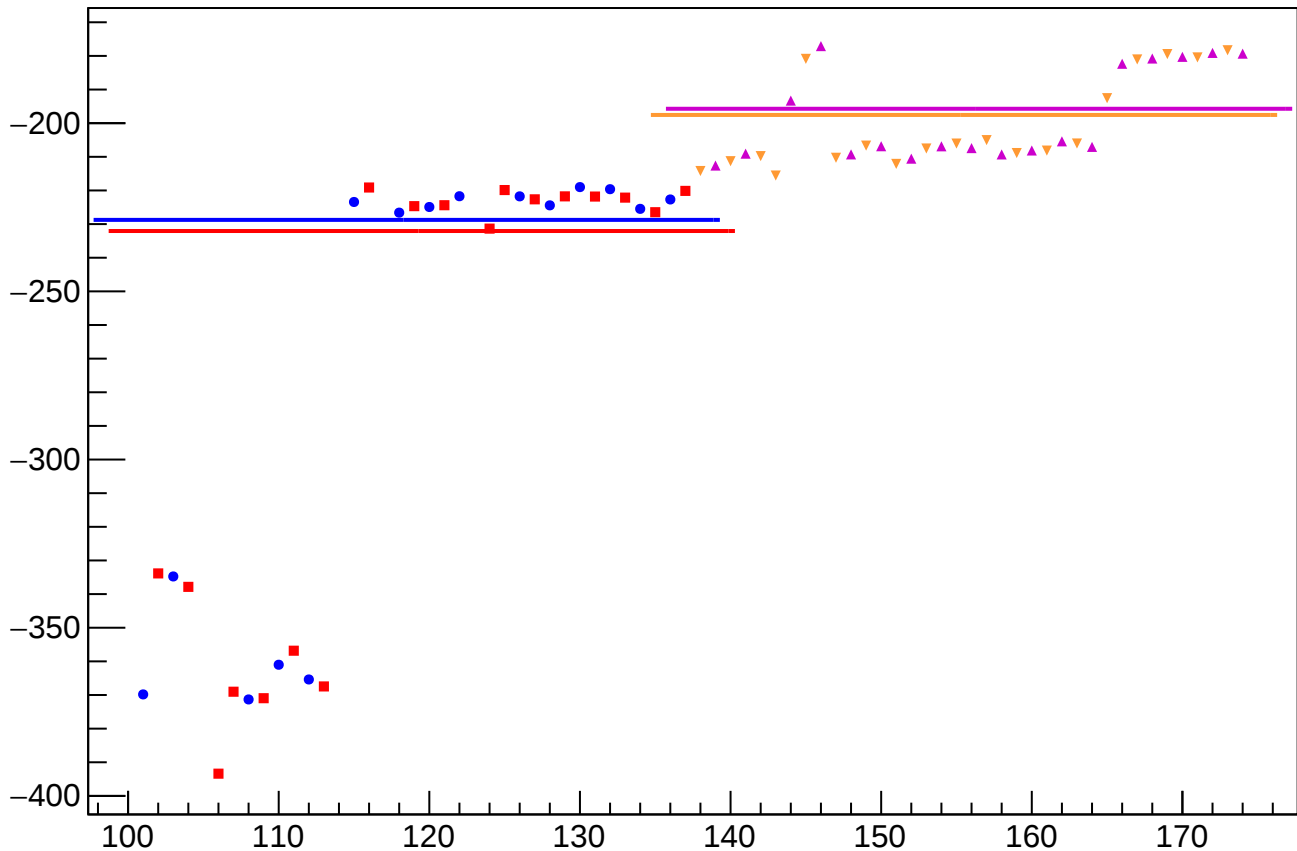
Right:  $17.096 \pm 0.010$   $\chi^2/\text{NDF}$ : 90566.4/32

In:  $12.967 \pm 0.006$   $\chi^2/\text{NDF}$ : 337944.4/32

Out:  $13.211 \pm 0.007$   $\chi^2/\text{NDF}$ : 294963.9/36

All:  $13.073 \pm 0.005$   $\chi^2/\text{NDF}$ : 633553.2/69

# dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}: 657578.5/14$

Left Out:  $-197.552 \pm 0.015$   $\chi^2/\text{NDF}: 932114.5/18$

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}: 791526.5/17$

Left In:  $-195.714 \pm 0.013$   $\chi^2/\text{NDF}: 1109522.8/17$

Left:  $-196.524 \pm 0.010$   $\chi^2/\text{NDF}: 2050105.5/36$

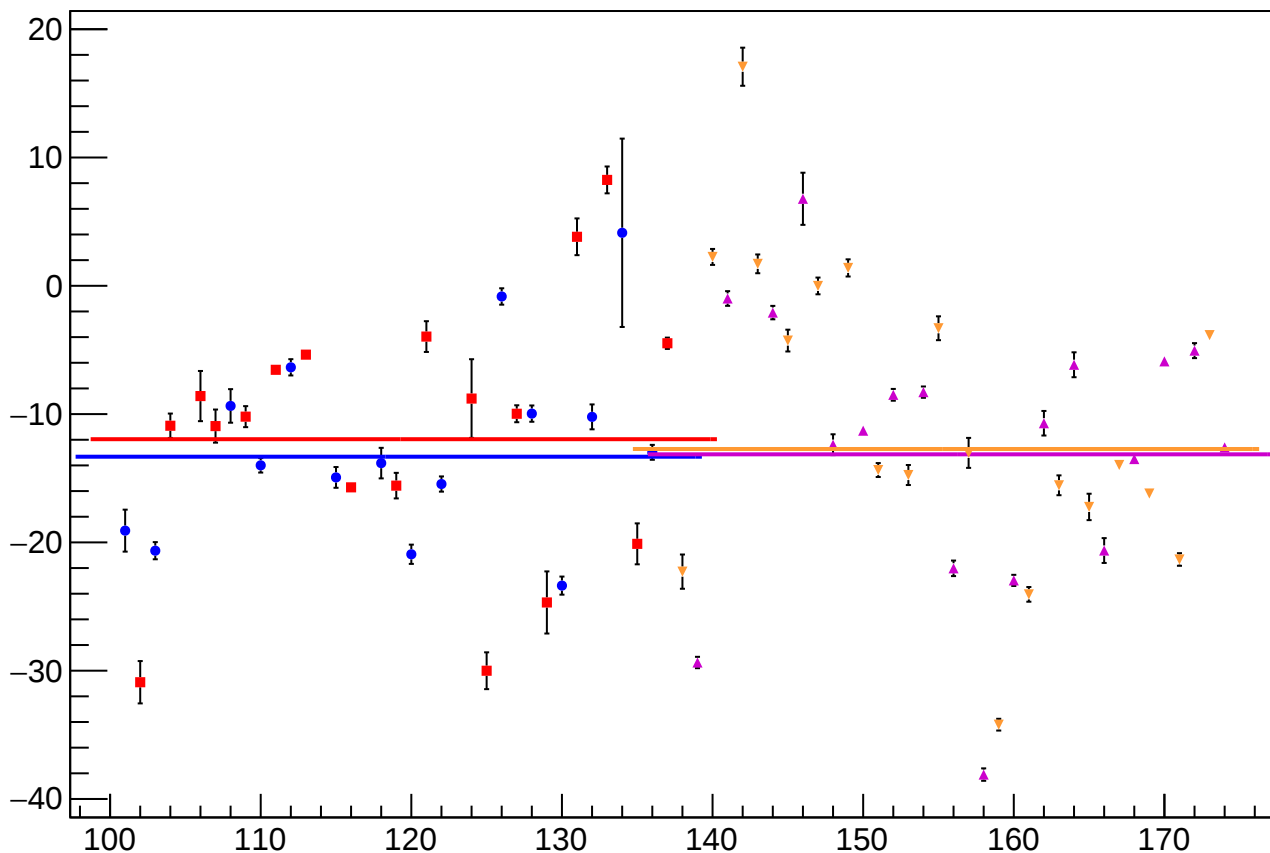
Right:  $-230.117 \pm 0.027$   $\chi^2/\text{NDF}: 1452870.5/32$

In:  $-199.928 \pm 0.012$   $\chi^2/\text{NDF}: 2558542.1/32$

Out:  $-201.546 \pm 0.014$   $\chi^2/\text{NDF}: 2340848.7/36$

All:  $-200.636 \pm 0.009$   $\chi^2/\text{NDF}: 4906850.6/69$

# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$   
 Left Out:  $-12.720 \pm 0.129$   $\chi^2/\text{NDF}: 6116.1/18$   
 Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$   
 Left In:  $-13.136 \pm 0.111$   $\chi^2/\text{NDF}: 6936.7/17$

Left:  $-12.960 \pm 0.084$   $\chi^2/\text{NDF}: 13058.8/36$

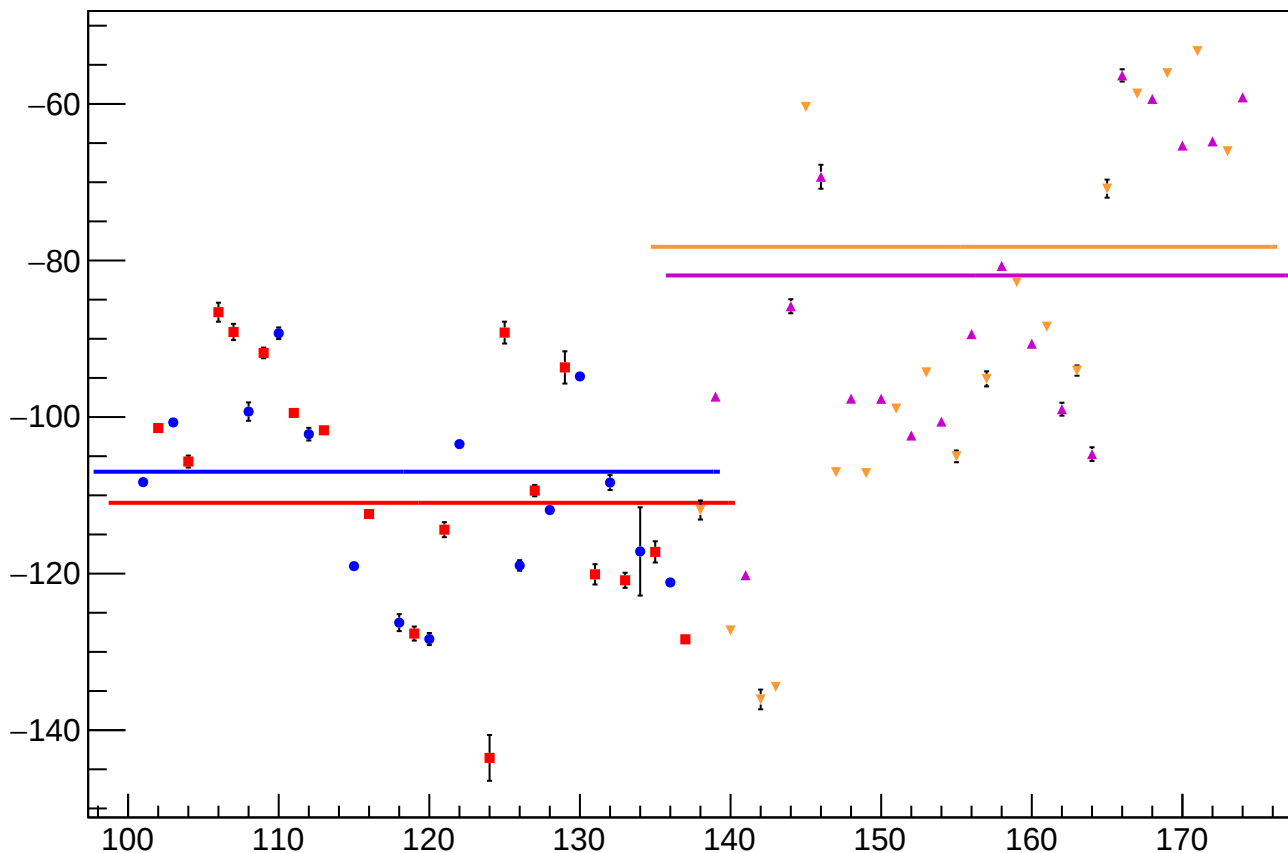
Right:  $-12.301 \pm 0.097$   $\chi^2/\text{NDF}: 3537.3/32$

In:  $-13.182 \pm 0.096$   $\chi^2/\text{NDF}: 7950.4/32$

Out:  $-12.286 \pm 0.085$   $\chi^2/\text{NDF}: 8623.1/36$

All:  $-12.679 \pm 0.064$   $\chi^2/\text{NDF}: 16622.3/69$

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}$ : 4658.3/14

Left Out:  $-78.251 \pm 0.104$   $\chi^2/\text{NDF}$ : 51955.1/18

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}$ : 10675.0/17

Left In:  $-81.909 \pm 0.093$   $\chi^2/\text{NDF}$ : 41077.3/17

Left:  $-80.281 \pm 0.069$   $\chi^2/\text{NDF}$ : 93716.8/36

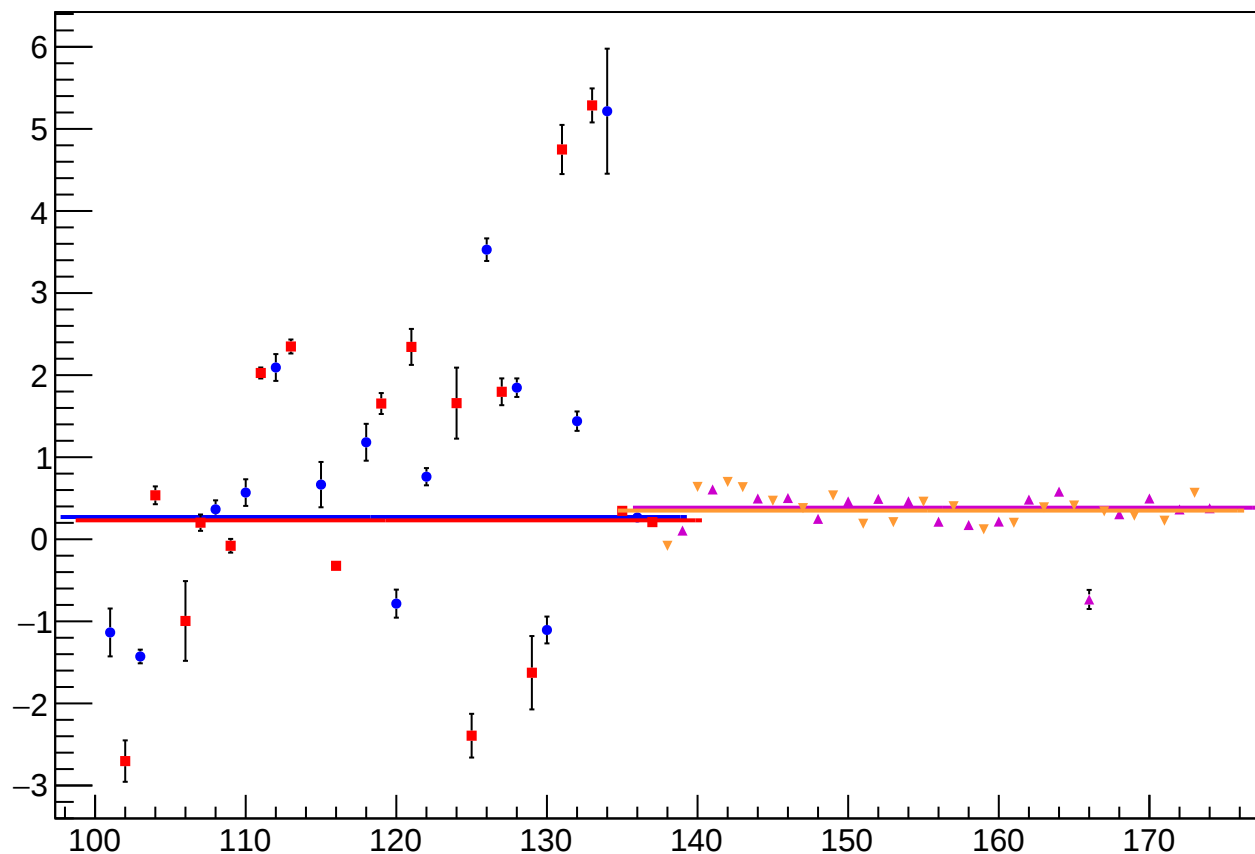
Right:  $-110.271 \pm 0.046$   $\chi^2/\text{NDF}$ : 16412.2/32

In:  $-92.395 \pm 0.071$   $\chi^2/\text{NDF}$ : 75951.5/32

Out:  $-104.796 \pm 0.045$   $\chi^2/\text{NDF}$ : 142608.5/36

All:  $-101.229 \pm 0.038$   $\chi^2/\text{NDF}$ : 240198.7/69

# dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.271 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 1612.2/14

Left Out: 0.350 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 8946.0/18

Right Out: 0.231 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 2907.8/17

Left In: 0.385 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 8292.1/17

Left: 0.369 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 17437.3/36

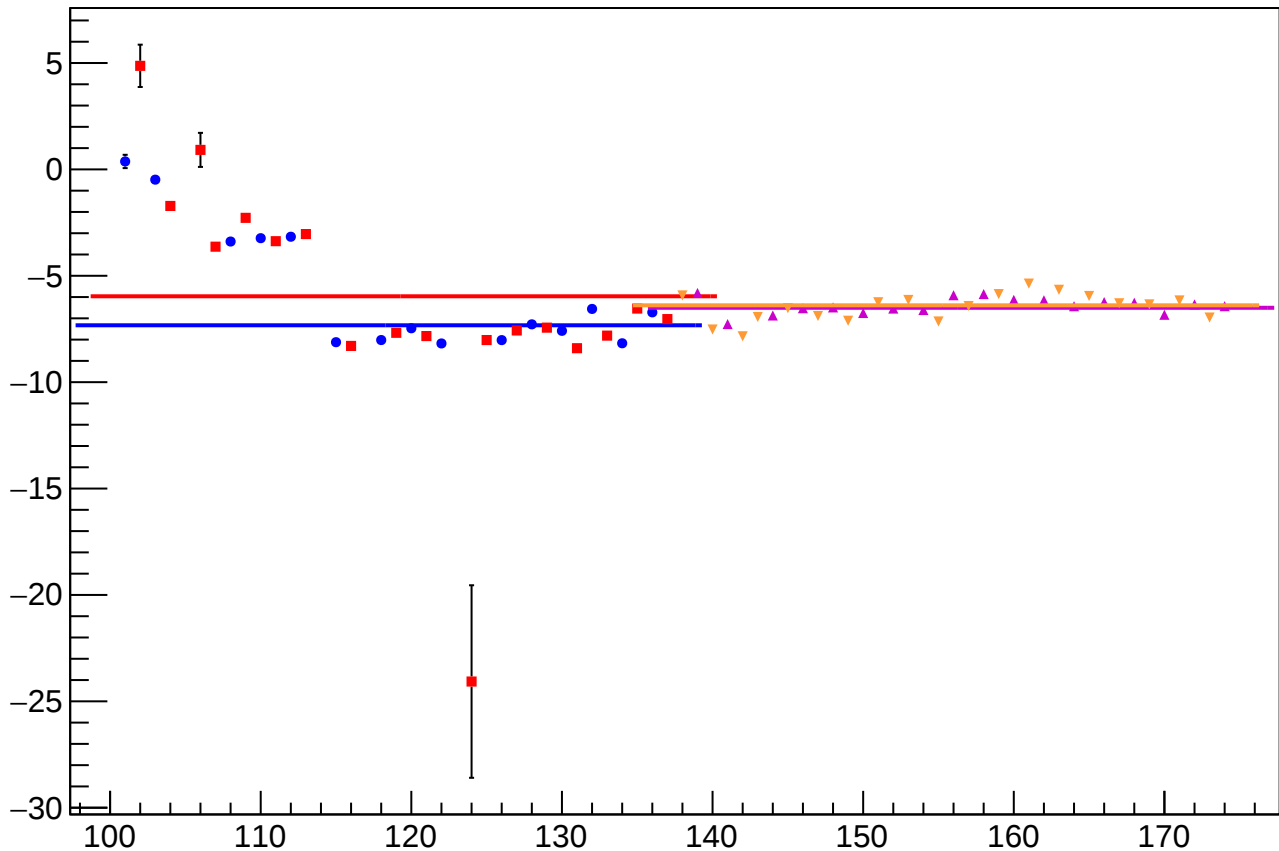
Right: 0.247 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 4554.2/32

In: 0.375 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 10320.2/32

Out: 0.331 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 12466.3/36

All: 0.355 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 23130.7/69

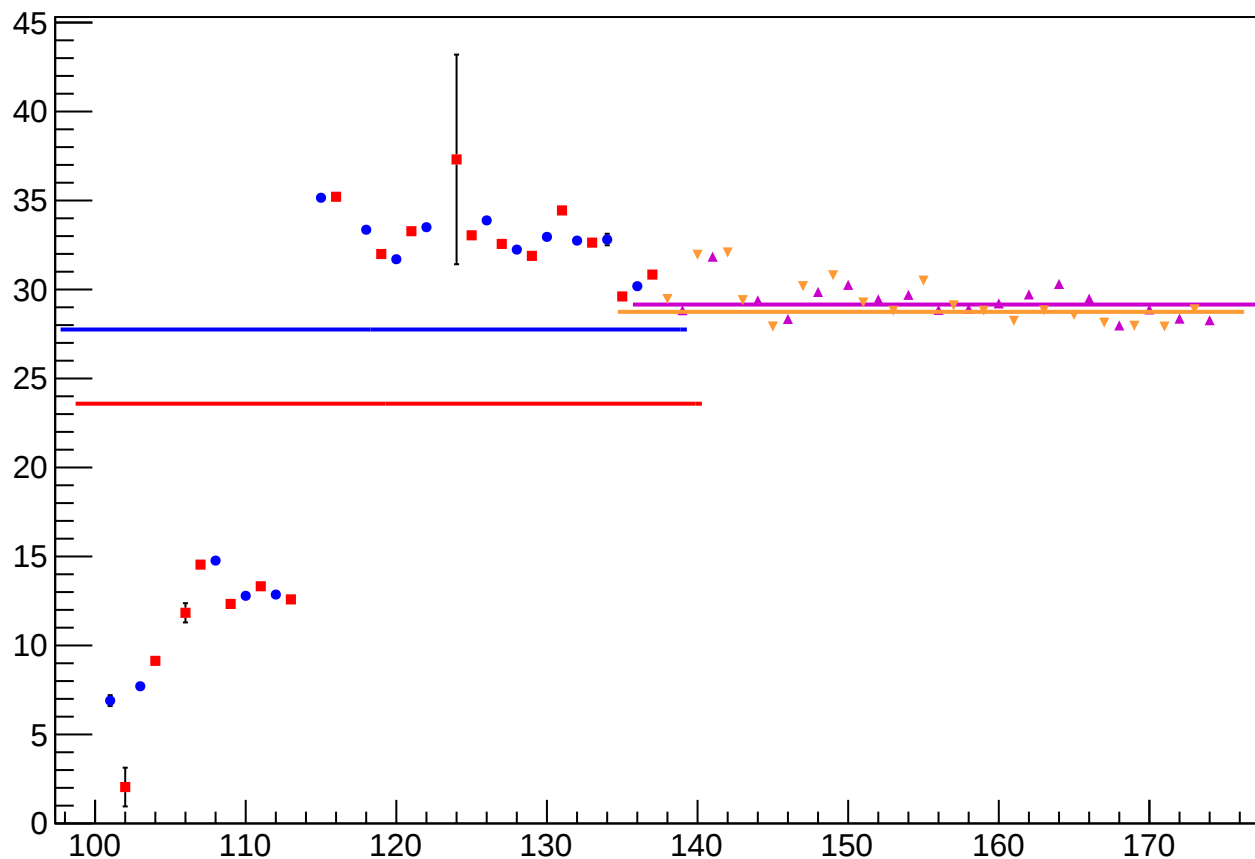
# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}: 30494.2/14$   
 Left Out:  $-6.388 \pm 0.005$   $\chi^2/\text{NDF}: 6364.3/18$   
 Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}: 71807.1/17$   
 Left In:  $-6.504 \pm 0.005$   $\chi^2/\text{NDF}: 6529.1/17$

Left:  $-6.450 \pm 0.003$   $\chi^2/\text{NDF}: 13171.3/36$   
 Right:  $-6.677 \pm 0.006$   $\chi^2/\text{NDF}: 114918.0/32$   
 In:  $-6.704 \pm 0.004$   $\chi^2/\text{NDF}: 44323.0/32$   
 Out:  $-6.281 \pm 0.004$   $\chi^2/\text{NDF}: 79917.5/36$   
 All:  $-6.506 \pm 0.003$   $\chi^2/\text{NDF}: 129142.2/69$

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 27.752+/-0.015     $\chi^2/\text{NDF}$ : 332926.6/14

Left Out: 28.744+/-0.009     $\chi^2/\text{NDF}$ : 12829.3/18

Right Out: 23.585+/-0.014     $\chi^2/\text{NDF}$ : 539616.2/17

Left In: 29.156+/-0.009     $\chi^2/\text{NDF}$ : 7533.6/17

Left: 28.957+/-0.006     $\chi^2/\text{NDF}$ : 21453.9/36

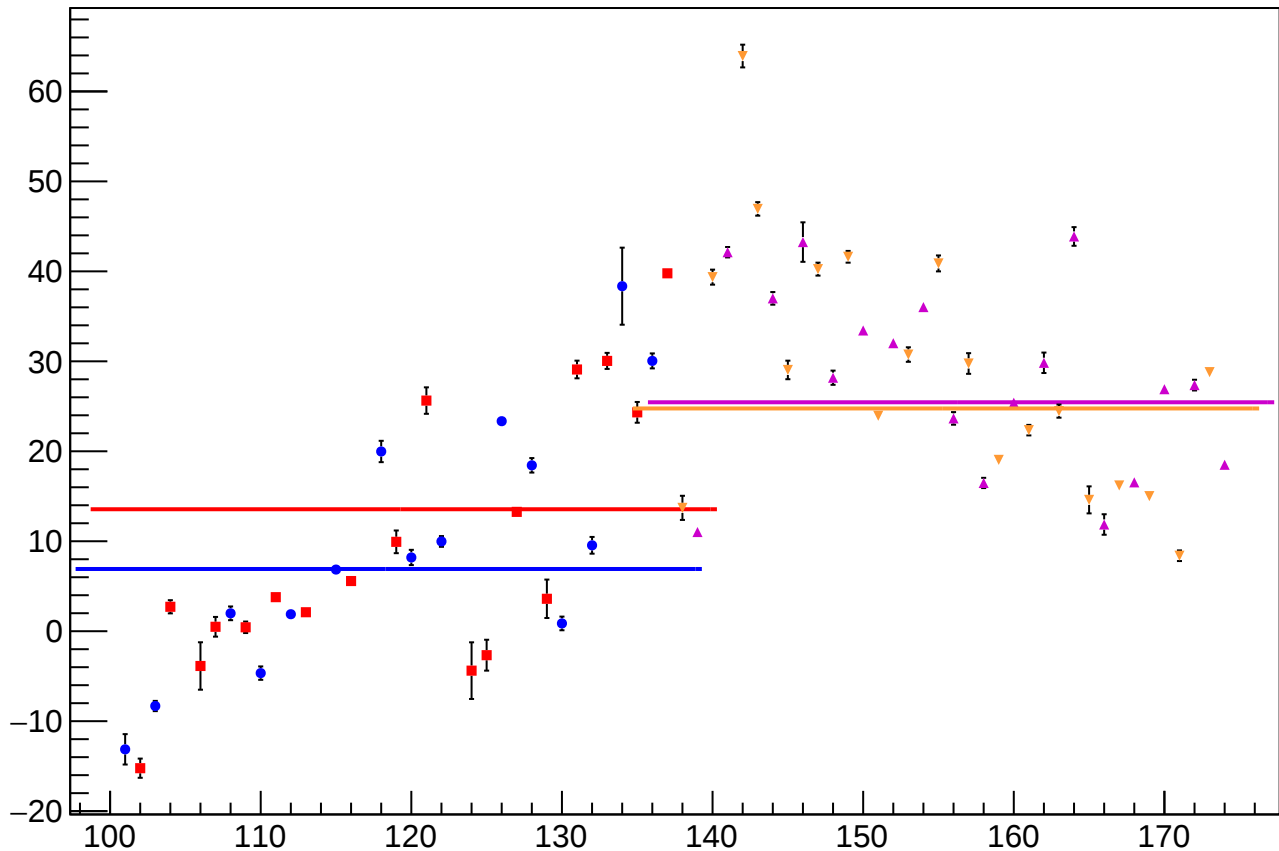
Right: 25.477+/-0.010     $\chi^2/\text{NDF}$ : 914478.1/32

In: 28.807+/-0.007     $\chi^2/\text{NDF}$ : 347009.0/32

Out: 27.201+/-0.008     $\chi^2/\text{NDF}$ : 651658.5/36

All: 28.005+/-0.005     $\chi^2/\text{NDF}$ : 1021627.8/69

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $24.759 \pm 0.141$   $\chi^2/\text{NDF}: 5968.4/18$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

Left In:  $25.447 \pm 0.121$   $\chi^2/\text{NDF}: 5812.2/17$

Left:  $25.157 \pm 0.092$   $\chi^2/\text{NDF}: 11794.4/36$

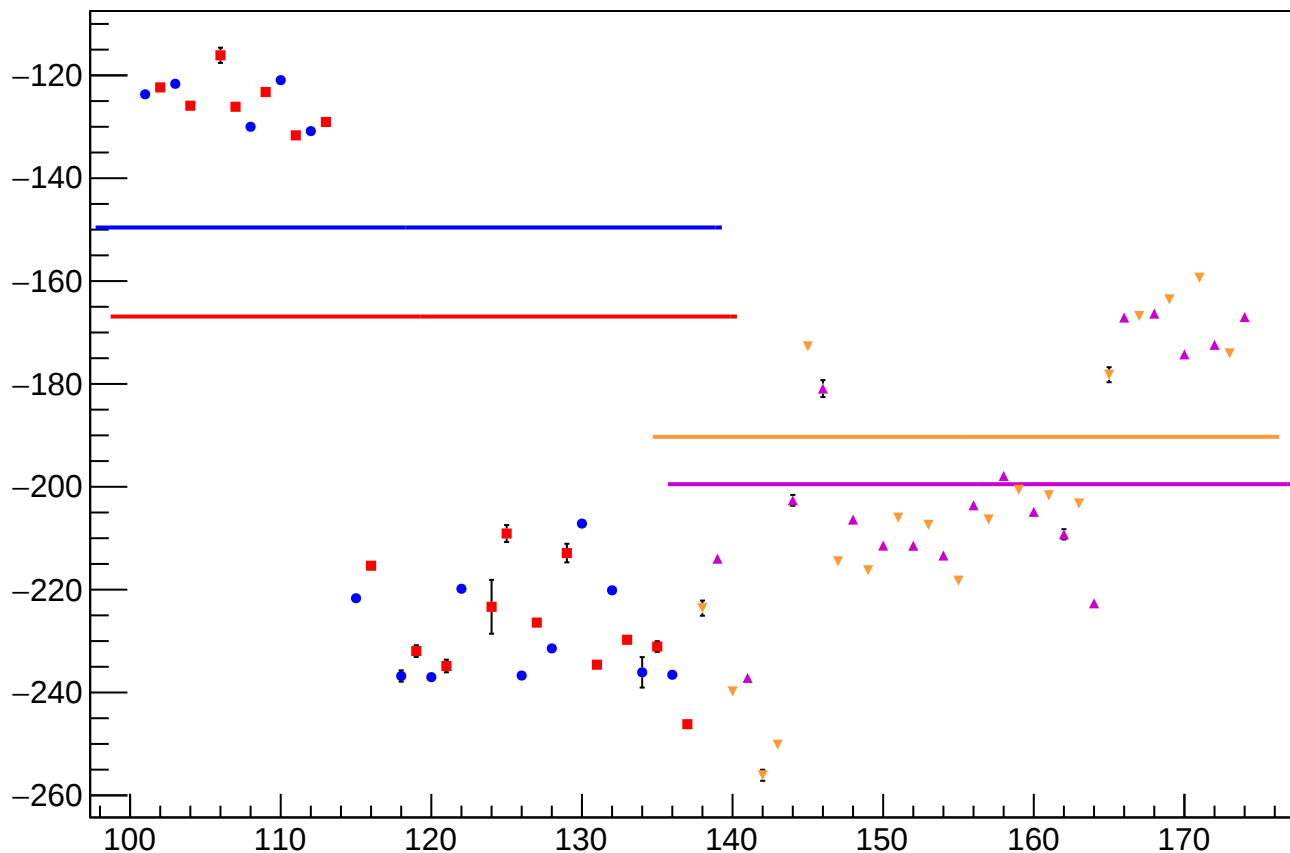
Right:  $10.880 \pm 0.112$   $\chi^2/\text{NDF}: 16004.9/32$

In:  $19.540 \pm 0.100$   $\chi^2/\text{NDF}: 16820.6/32$

Out:  $19.307 \pm 0.101$   $\chi^2/\text{NDF}: 20686.4/36$

All:  $19.425 \pm 0.071$   $\chi^2/\text{NDF}: 37509.7/69$

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In: -149.580 $\pm$ 0.101  $\chi^2$ /NDF: 195091.5/14

Left Out: -190.284 $\pm$ 0.114  $\chi^2$ /NDF: 48391.9/18

Right Out: -166.899 $\pm$ 0.101  $\chi^2$ /NDF: 295489.9/17

Left In: -199.492 $\pm$ 0.103  $\chi^2$ /NDF: 39316.5/17

Left: -195.364 $\pm$ 0.076  $\chi^2$ /NDF: 91298.1/36

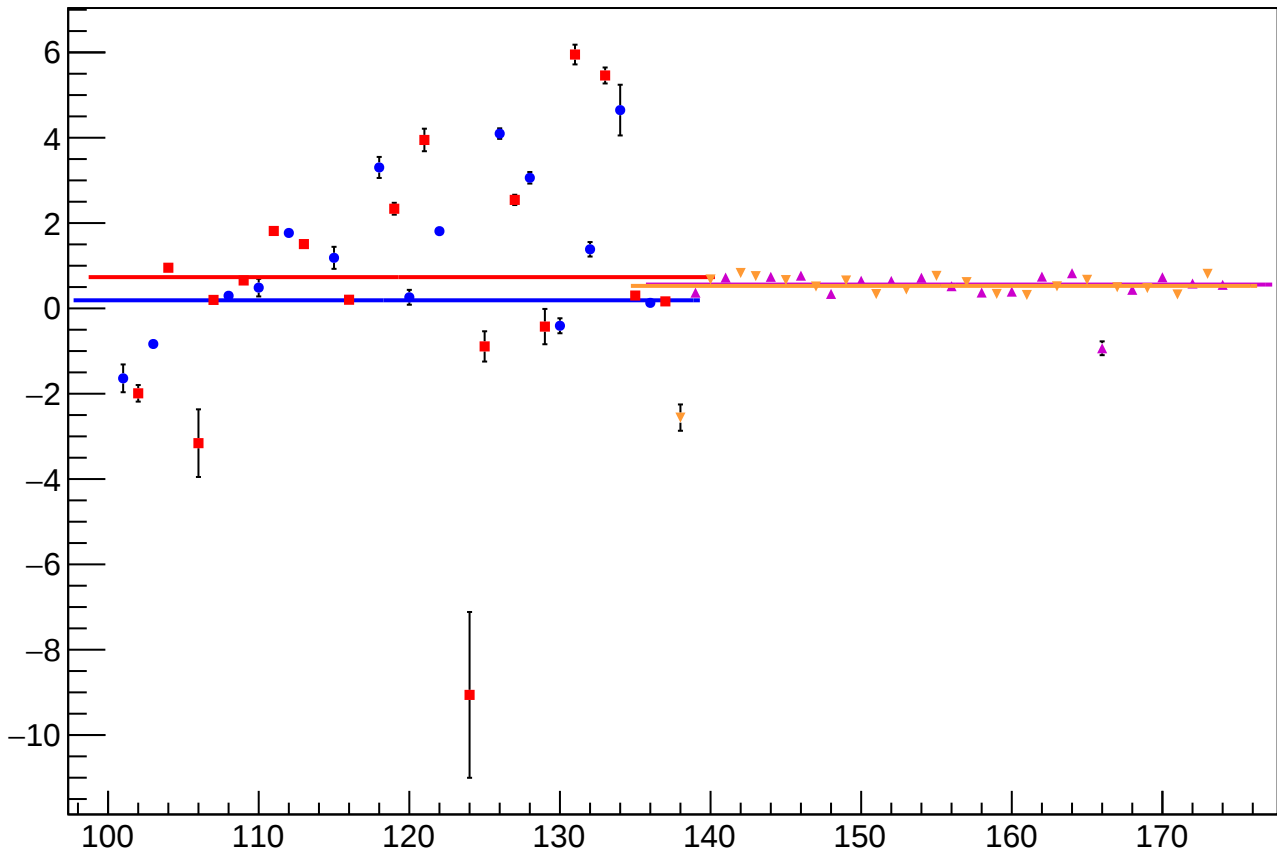
Right: -158.264 $\pm$ 0.071  $\chi^2$ /NDF: 505360.9/32

In: -174.039 $\pm$ 0.072  $\chi^2$ /NDF: 354386.5/32

Out: -177.120 $\pm$ 0.075  $\chi^2$ /NDF: 367505.4/36

All: -175.508 $\pm$ 0.052  $\chi^2$ /NDF: 722764.0/69

# dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}: 2727.5/14$

Left Out:  $0.527 \pm 0.002$   $\chi^2/\text{NDF}: 8019.0/18$

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}: 2666.9/17$

Left In:  $0.558 \pm 0.002$   $\chi^2/\text{NDF}: 5290.5/17$

Left:  $0.544 \pm 0.001$   $\chi^2/\text{NDF}: 13417.7/36$

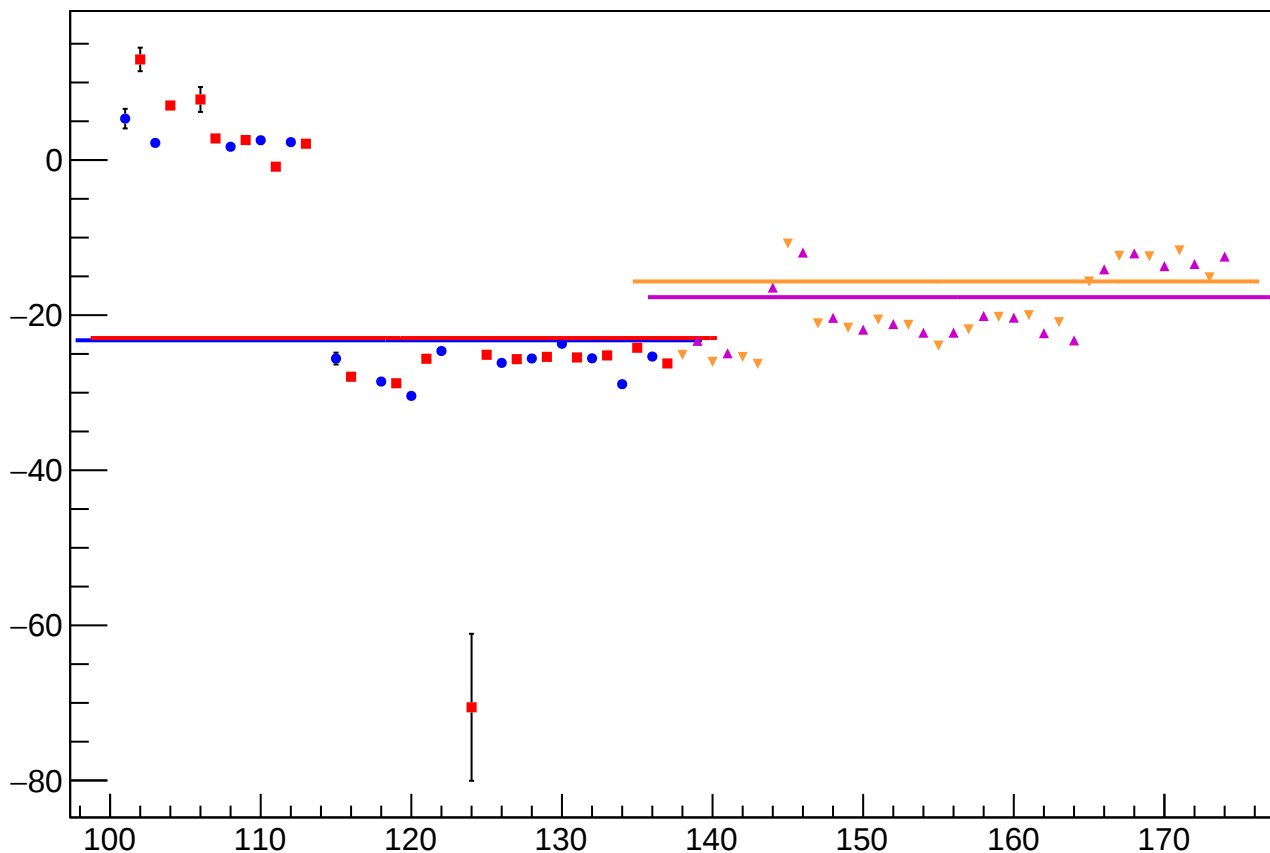
Right:  $0.276 \pm 0.008$   $\chi^2/\text{NDF}: 6029.4/32$

In:  $0.538 \pm 0.002$   $\chi^2/\text{NDF}: 9751.9/32$

Out:  $0.530 \pm 0.002$   $\chi^2/\text{NDF}: 10792.6/36$

All:  $0.534 \pm 0.001$   $\chi^2/\text{NDF}: 20553.3/69$

# dit\_sam4\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}$ : 103102.8/14

Left Out:  $-15.653 \pm 0.012$   $\chi^2/\text{NDF}$ : 176027.9/18

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}$ : 108039.1/17

Left In:  $-17.679 \pm 0.012$   $\chi^2/\text{NDF}$ : 120135.8/17

Left:  $-16.642 \pm 0.008$   $\chi^2/\text{NDF}$ : 310991.3/36

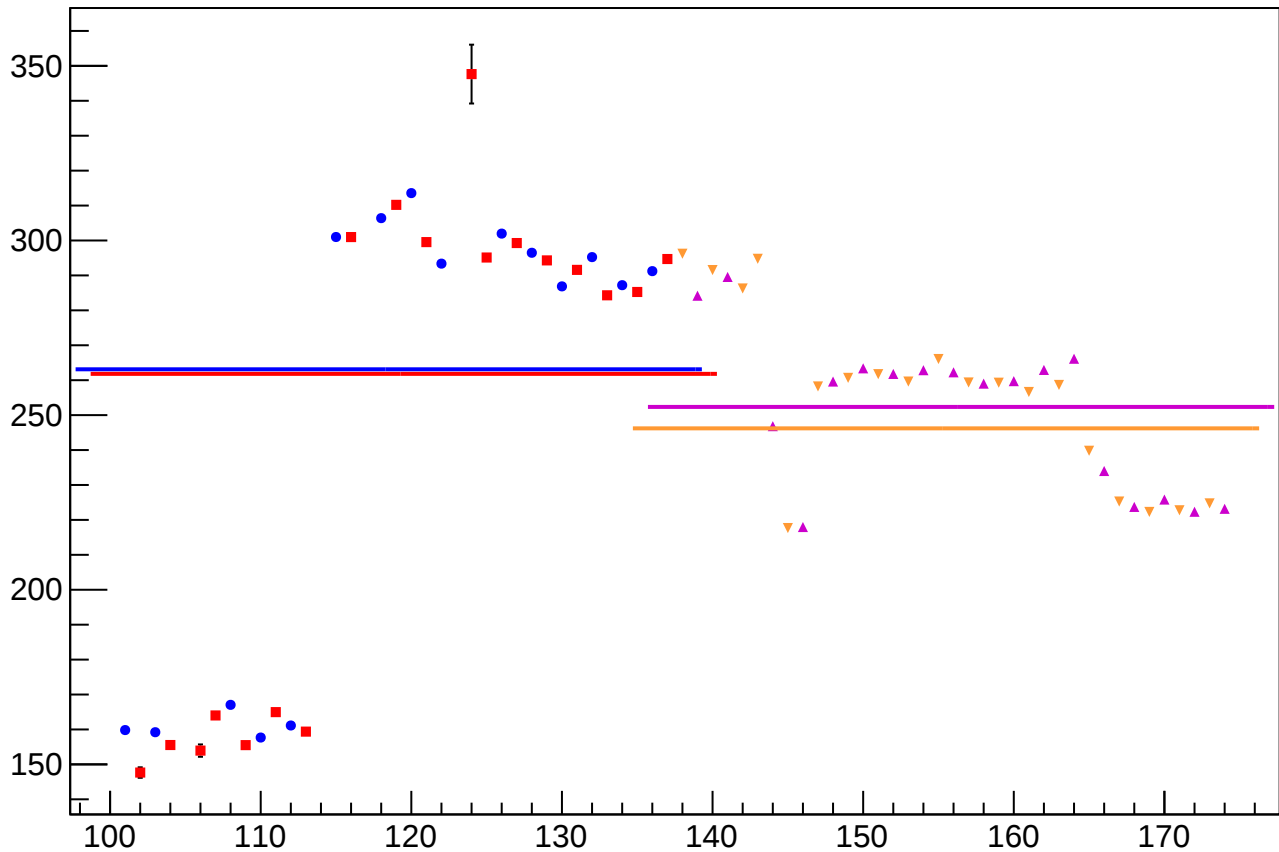
Right:  $-23.095 \pm 0.017$   $\chi^2/\text{NDF}$ : 211210.7/32

In:  $-18.722 \pm 0.011$   $\chi^2/\text{NDF}$ : 264227.9/32

Out:  $-16.978 \pm 0.011$   $\chi^2/\text{NDF}$ : 355577.1/36

All:  $-17.833 \pm 0.008$   $\chi^2/\text{NDF}$ : 633286.9/69

# dit\_sam4\_4eY\_slope vs Slug, Sign Corrected



Right In: 263.120+/-0.069  $\chi^2/\text{NDF}$ : 692885.4/14

Left Out: 246.211+/-0.029  $\chi^2/\text{NDF}$ : 674892.6/18

Right Out: 261.814+/-0.060  $\chi^2/\text{NDF}$ : 1006189.6/17

Left In: 252.349+/-0.029  $\chi^2/\text{NDF}$ : 356310.3/17

Left: 249.273+/-0.020  $\chi^2/\text{NDF}$ : 1054172.1/36

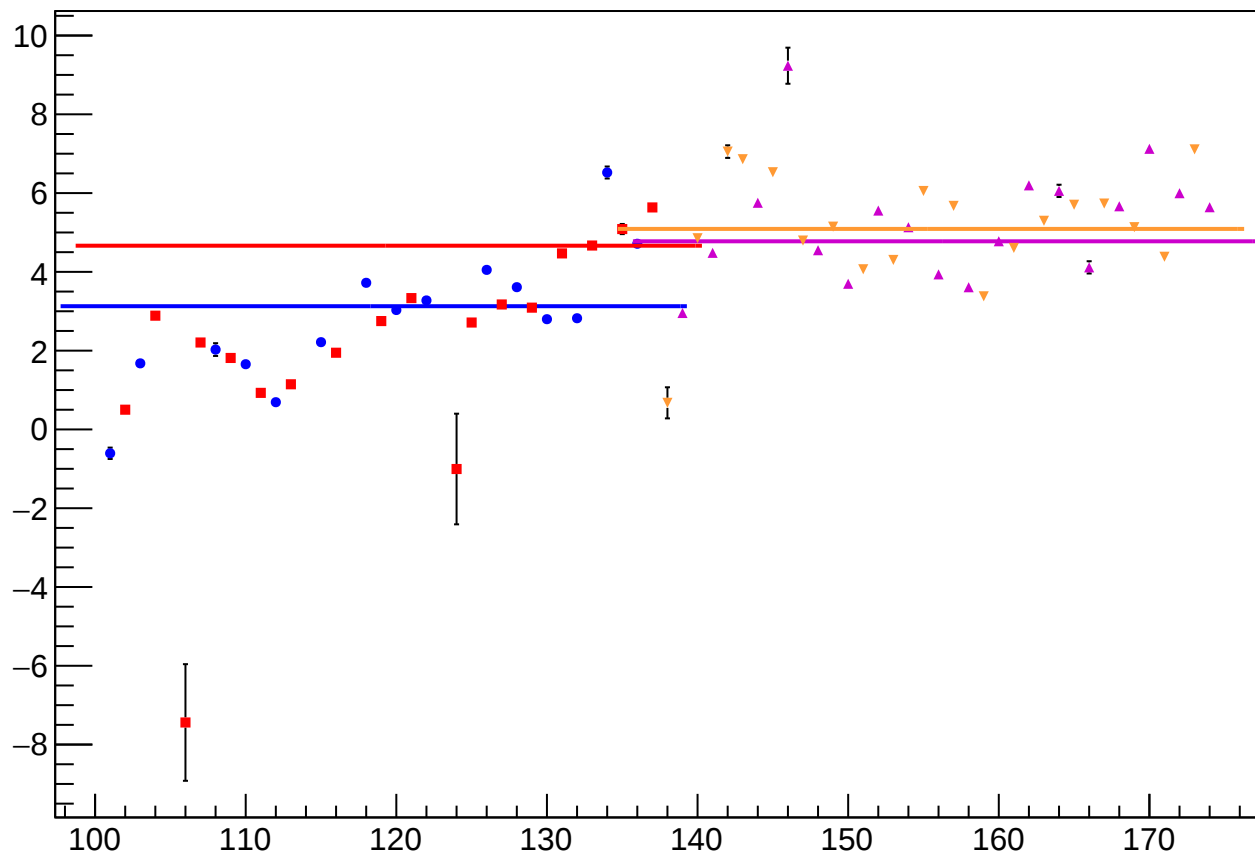
Right: 262.381+/-0.045  $\chi^2/\text{NDF}$ : 1699277.6/32

In: 253.932+/-0.026  $\chi^2/\text{NDF}$ : 1069937.1/32

Out: 249.067+/-0.026  $\chi^2/\text{NDF}$ : 1735531.4/36

All: 251.441+/-0.019  $\chi^2/\text{NDF}$ : 2822752.4/69

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $5.091 \pm 0.015$   $\chi^2/\text{NDF}: 3589.7/18$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

Left In:  $4.776 \pm 0.013$   $\chi^2/\text{NDF}: 8979.7/17$

Left:  $4.919 \pm 0.010$   $\chi^2/\text{NDF}: 12818.5/36$

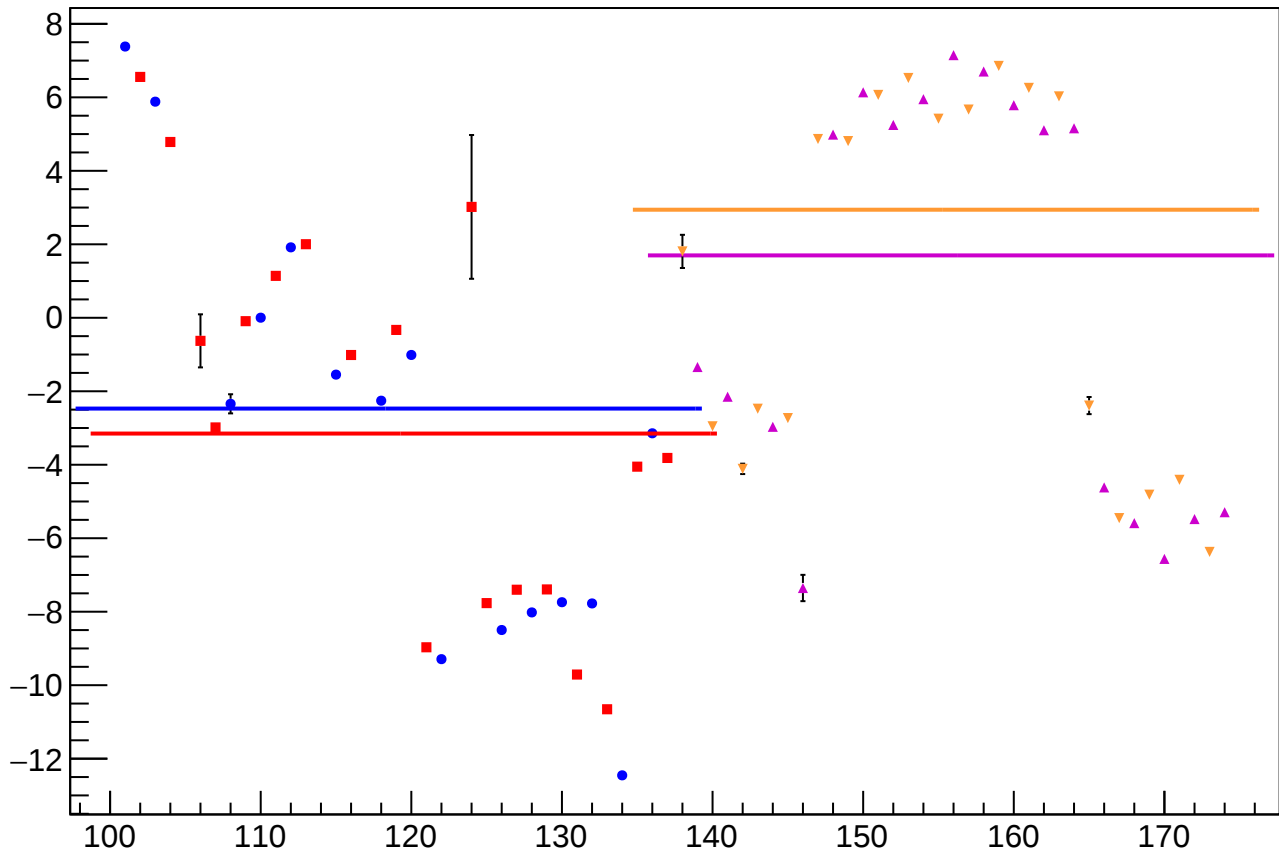
Right:  $4.450 \pm 0.006$   $\chi^2/\text{NDF}: 80704.7/32$

In:  $4.082 \pm 0.010$   $\chi^2/\text{NDF}: 20972.1/32$

Out:  $4.731 \pm 0.006$   $\chi^2/\text{NDF}: 71158.5/36$

All:  $4.572 \pm 0.005$   $\chi^2/\text{NDF}: 95174.3/69$

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $2.941 \pm 0.012$   $\chi^2/\text{NDF}: 134634.8/18$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

Left In:  $1.698 \pm 0.012$   $\chi^2/\text{NDF}: 204265.3/17$

Left:  $2.286 \pm 0.008$   $\chi^2/\text{NDF}: 344304.4/36$

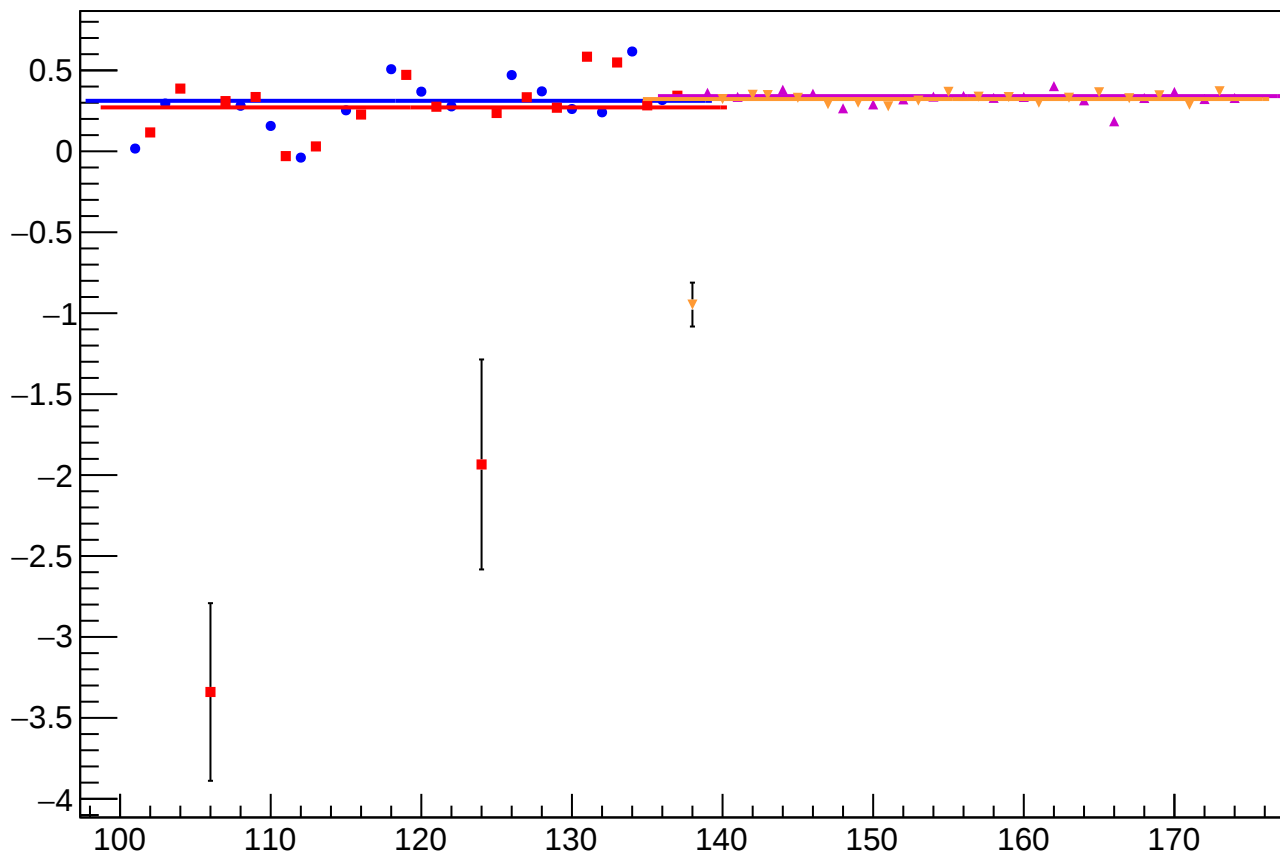
Right:  $-3.003 \pm 0.007$   $\chi^2/\text{NDF}: 491827.6/32$

In:  $0.011 \pm 0.009$   $\chi^2/\text{NDF}: 498853.0/32$

Out:  $-1.518 \pm 0.006$   $\chi^2/\text{NDF}: 562165.1/36$

All:  $-1.007 \pm 0.005$   $\chi^2/\text{NDF}: 1080338.0/69$

# dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.312 $\pm$ 0.001  $\chi^2$ /NDF: 1319.2/14

Left Out: 0.323 $\pm$ 0.001  $\chi^2$ /NDF: 2117.2/18

Right Out: 0.271 $\pm$ 0.002  $\chi^2$ /NDF: 6144.7/17

Left In: 0.341 $\pm$ 0.001  $\chi^2$ /NDF: 3238.8/17

Left: 0.332 $\pm$ 0.000  $\chi^2$ /NDF: 5840.8/36

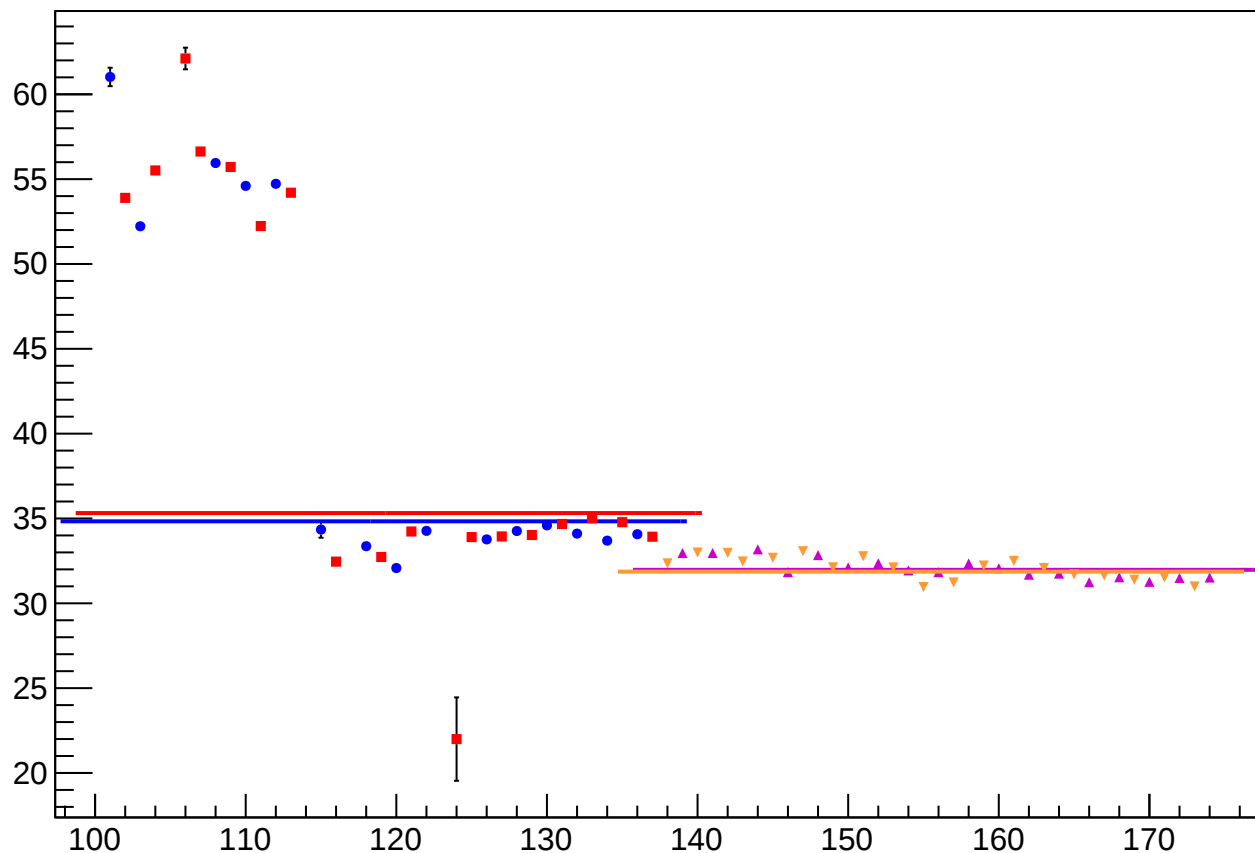
Right: 0.301 $\pm$ 0.001  $\chi^2$ /NDF: 7735.2/32

In: 0.336 $\pm$ 0.001  $\chi^2$ /NDF: 4987.8/32

Out: 0.319 $\pm$ 0.001  $\chi^2$ /NDF: 8813.9/36

All: 0.329 $\pm$ 0.000  $\chi^2$ /NDF: 14300.0/69

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 31.866 $\pm$ 0.003  $\chi^2$ /NDF:24162.7/18

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

Left In: 31.975 $\pm$ 0.004  $\chi^2$ /NDF:14067.4/17

Left: 31.914 $\pm$ 0.002  $\chi^2$ /NDF: 38713.0/36

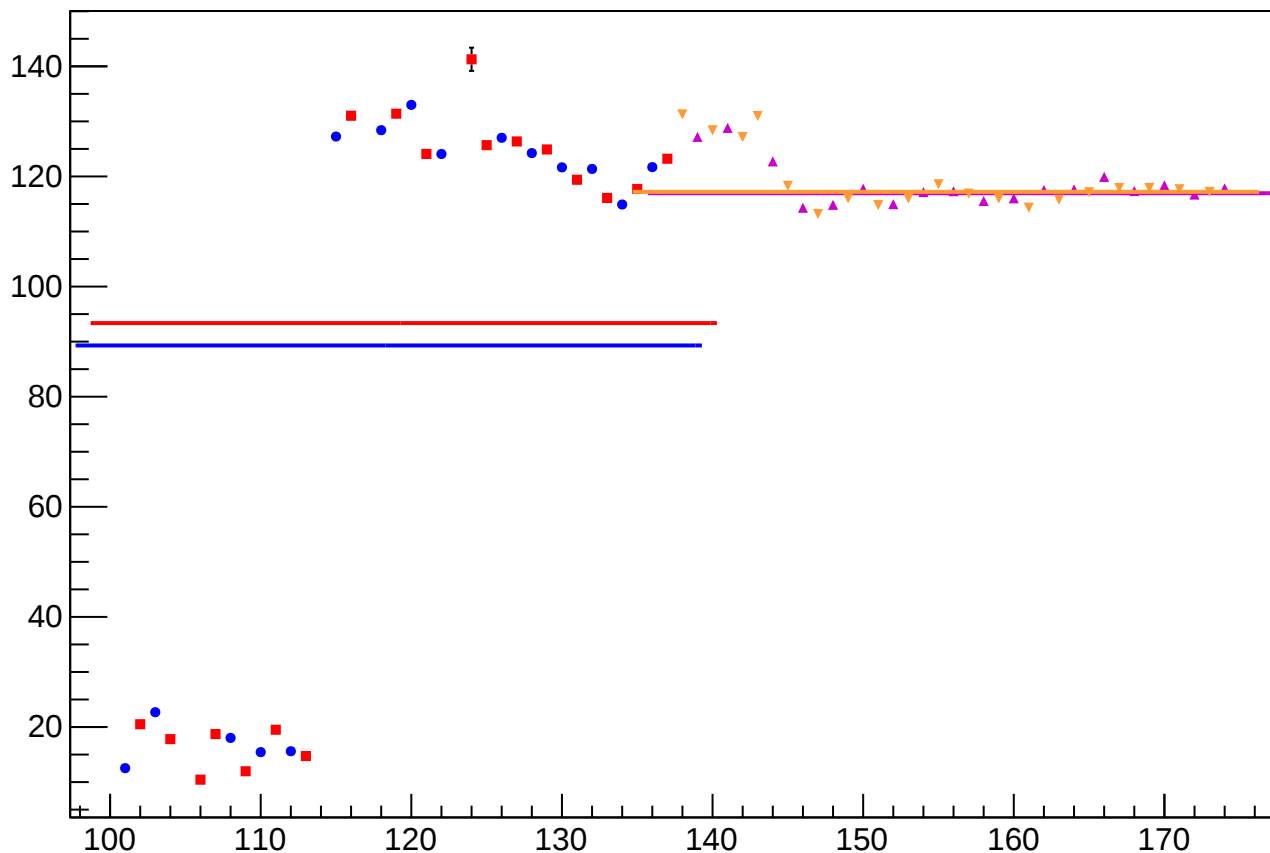
Right: 35.041 $\pm$ 0.007  $\chi^2$ /NDF: 508429.6/32

In: 32.417 $\pm$ 0.003  $\chi^2$ /NDF:352490.6/32

Out: 32.205 $\pm$ 0.003  $\chi^2$ /NDF:394210.8/36

All: 32.302 $\pm$ 0.002  $\chi^2$ /NDF: 748814.6/69

# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In:  $89.302 \pm 0.027$   $\chi^2/\text{NDF}: 3034485.1/14$

Left Out:  $117.207 \pm 0.008$   $\chi^2/\text{NDF}: 123218.5/18$

Right Out:  $93.367 \pm 0.030$   $\chi^2/\text{NDF}: 2852493.6/17$

Left In:  $116.949 \pm 0.009$   $\chi^2/\text{NDF}: 44106.4/17$

Left:  $117.090 \pm 0.006$   $\chi^2/\text{NDF}: 167793.6/36$

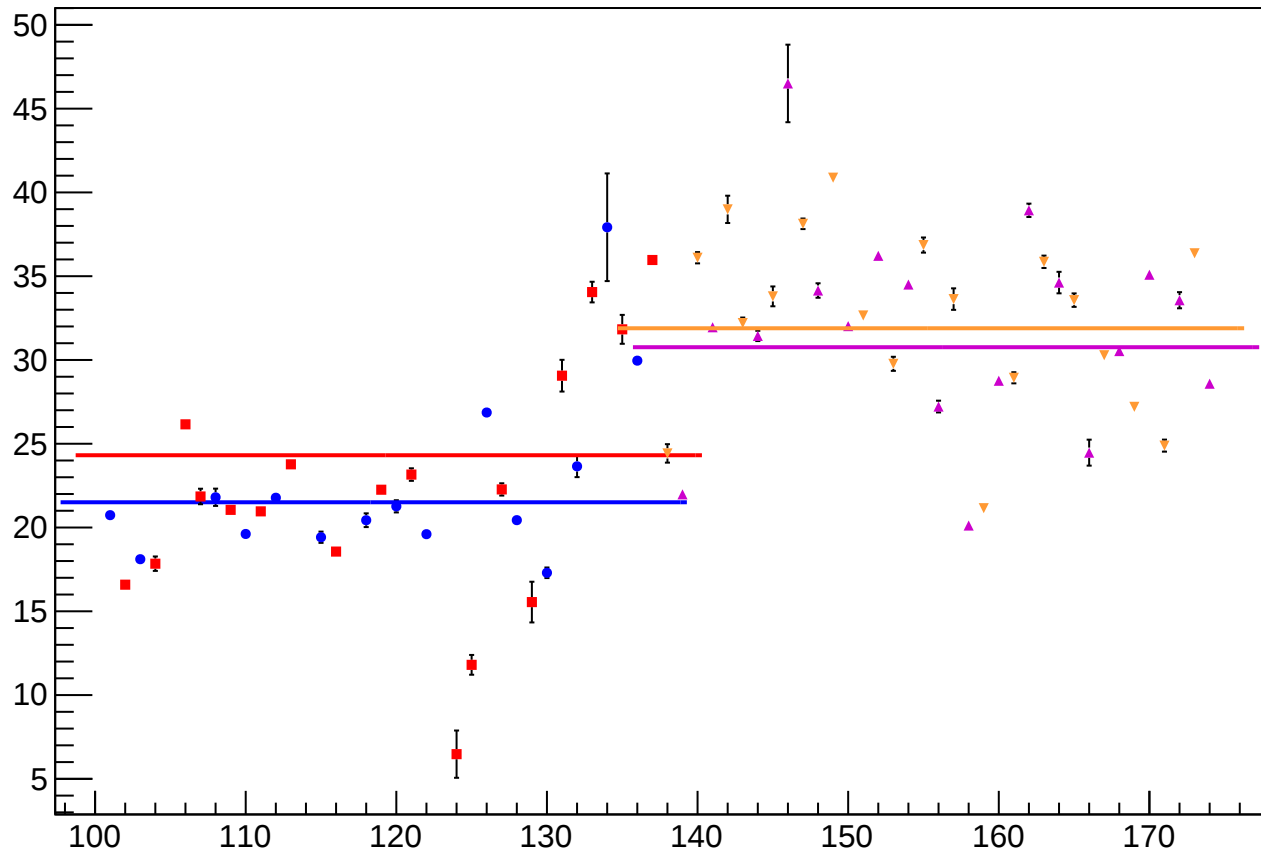
Right:  $91.158 \pm 0.020$   $\chi^2/\text{NDF}: 5896996.6/32$

In:  $114.364 \pm 0.008$   $\chi^2/\text{NDF}: 3998971.0/32$

Out:  $115.610 \pm 0.008$   $\chi^2/\text{NDF}: 3567191.5/36$

All:  $115.036 \pm 0.006$   $\chi^2/\text{NDF}: 7578057.6/69$

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In: 21.507 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 2963.0/14

Left Out: 31.892 $\pm$ 0.076  $\chi^2/\text{NDF}$ : 4811.0/18

Right Out: 24.314 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 14295.4/17

Left In: 30.761 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 5594.3/17

Left: 31.234 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 10532.9/36

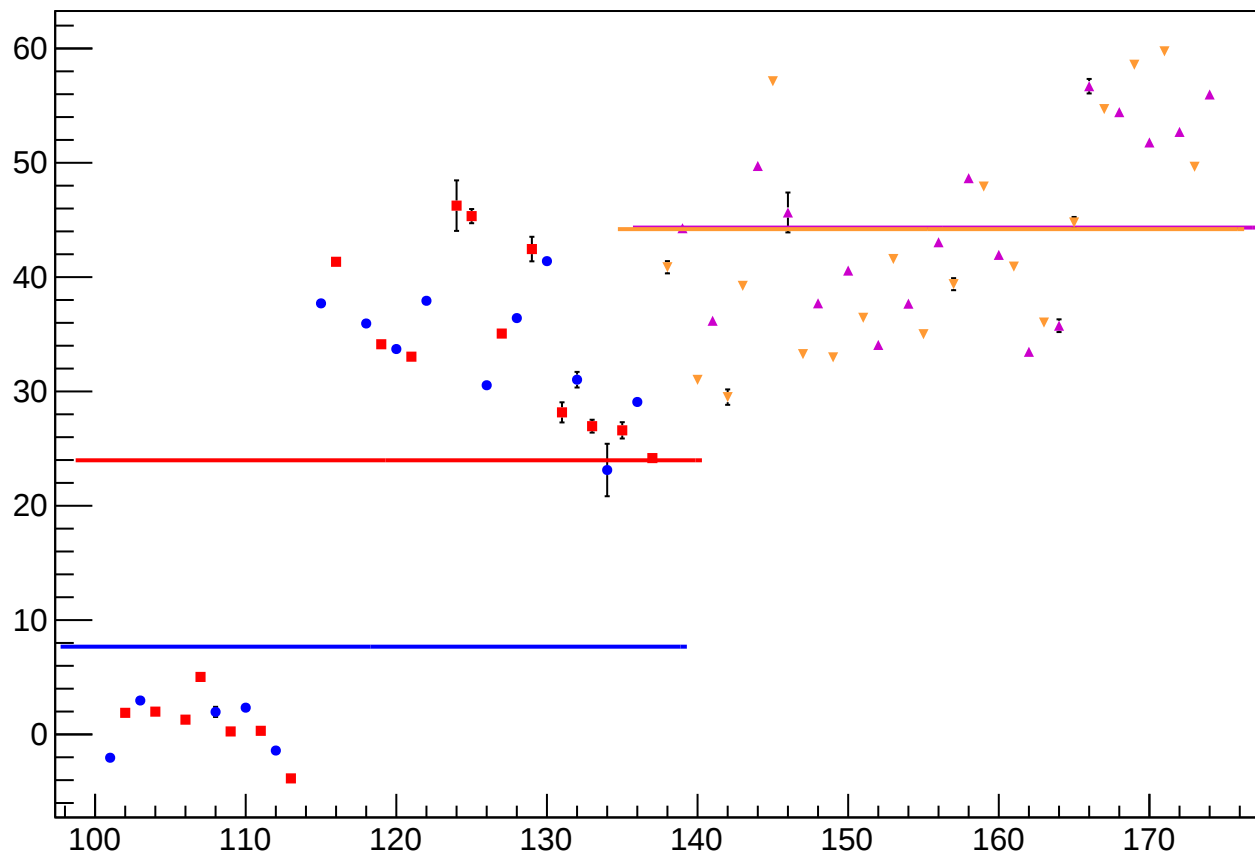
Right: 23.204 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 18169.2/32

In: 26.646 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 17649.4/32

Out: 27.115 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 25315.8/36

All: 26.889 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 43014.3/69

# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In: 7.675 $\pm$ 0.045  $\chi^2$ /NDF: 96442.5/14

Left Out: 44.198 $\pm$ 0.064  $\chi^2$ /NDF:21446.5/18

Right Out: 23.977 $\pm$ 0.008  $\chi^2$ /NDF: 110564.0/17

Left In: 44.334 $\pm$ 0.055  $\chi^2$ /NDF:16235.2/17

Left: 44.276 $\pm$ 0.041  $\chi^2$ /NDF: 37684.4/36

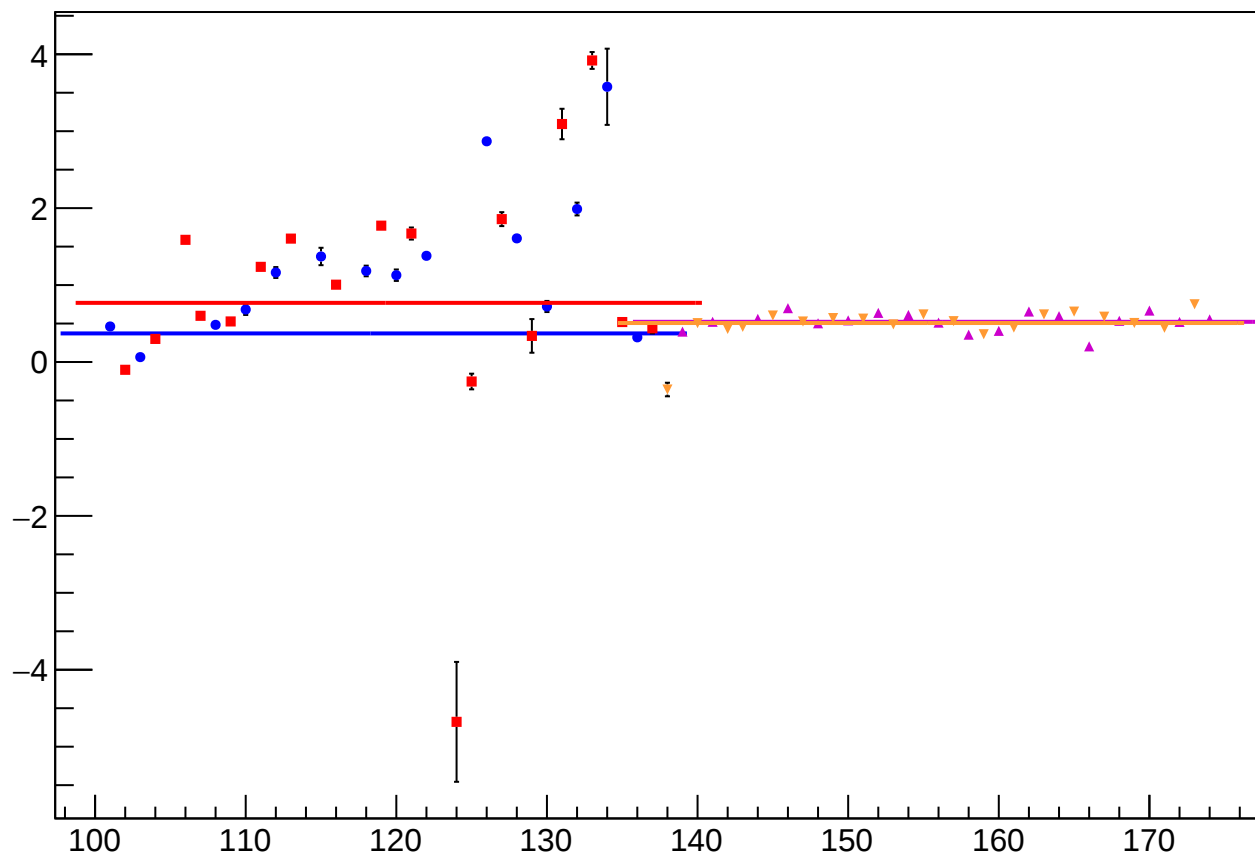
Right: 23.461 $\pm$ 0.008  $\chi^2$ /NDF: 332774.6/32

In: 22.603 $\pm$ 0.035  $\chi^2$ /NDF:380123.1/32

Out: 24.306 $\pm$ 0.008  $\chi^2$ /NDF:231318.4/36

All: 24.218 $\pm$ 0.008  $\chi^2$ /NDF: 613708.5/69

dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}: 4748.7/14$

Left Out:  $0.507 \pm 0.001$   $\chi^2/\text{NDF}: 12155.4/18$

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}: 4137.5/17$

Left In:  $0.522 \pm 0.001$   $\chi^2/\text{NDF}: 10578.6/17$

Left:  $0.515 \pm 0.001$   $\chi^2/\text{NDF}: 22844.0/36$

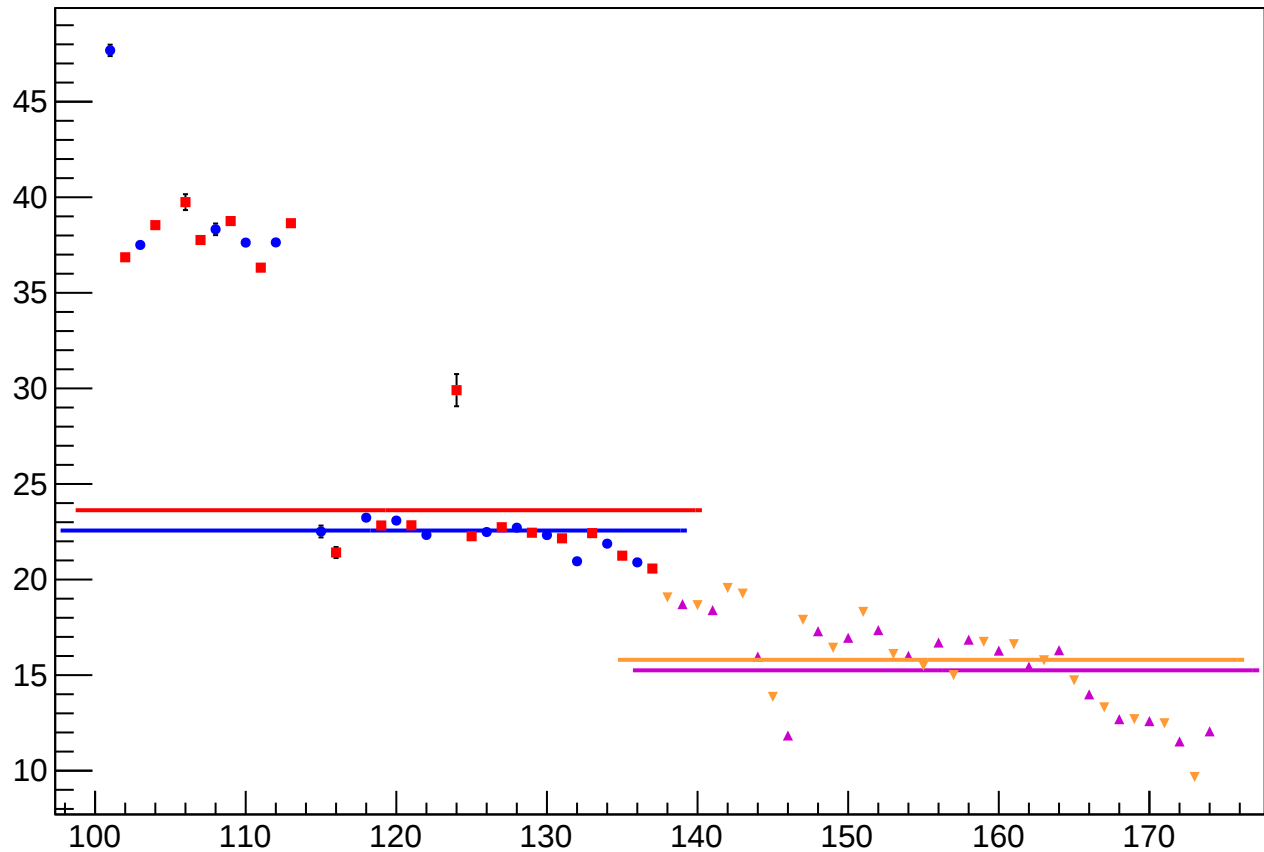
Right:  $0.484 \pm 0.004$   $\chi^2/\text{NDF}: 11237.9/32$

In:  $0.515 \pm 0.001$   $\chi^2/\text{NDF}: 16461.3/32$

Out:  $0.513 \pm 0.001$   $\chi^2/\text{NDF}: 17686.7/36$

All:  $0.514 \pm 0.001$   $\chi^2/\text{NDF}: 34149.1/69$

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 22.565+/-0.010  $\chi^2/\text{NDF}$ : 92859.1/14

Left Out: 15.802+/-0.006  $\chi^2/\text{NDF}$ : 169063.6/18

Right Out: 23.627+/-0.011  $\chi^2/\text{NDF}$ : 123194.1/17

Left In: 15.251+/-0.006  $\chi^2/\text{NDF}$ : 127363.6/17

Left: 15.540+/-0.004  $\chi^2/\text{NDF}$ : 300399.3/36

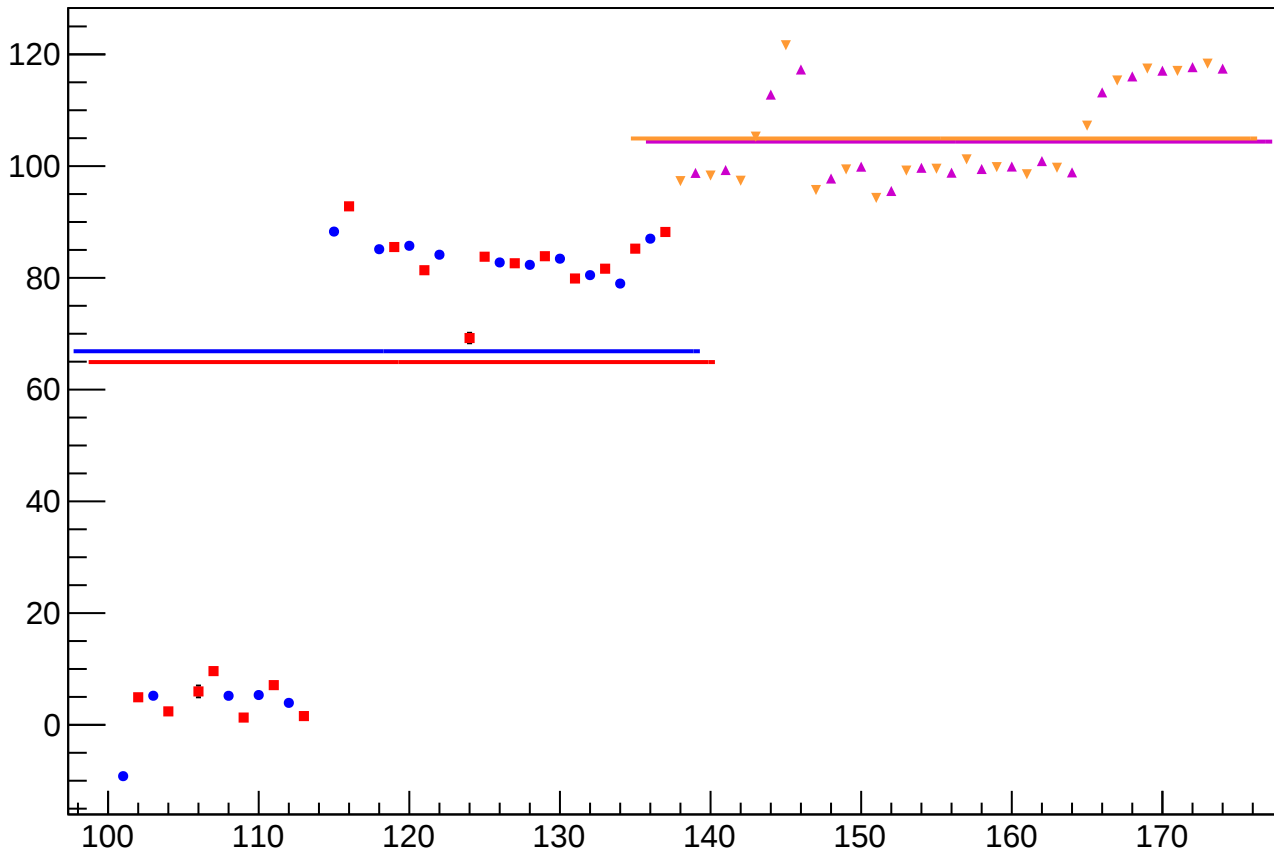
Right: 23.044+/-0.008  $\chi^2/\text{NDF}$ : 220970.6/32

In: 17.290+/-0.005  $\chi^2/\text{NDF}$ : 593000.1/32

Out: 17.553+/-0.005  $\chi^2/\text{NDF}$ : 669730.7/36

All: 17.423+/-0.004  $\chi^2/\text{NDF}$ : 1263944.4/69

# dit\_sam6\_4eY\_slope vs Slug, Sign Corrected



Right In: 66.866+/-0.027  $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out: 104.946+/-0.011  $\chi^2/\text{NDF}$ : 595790.5/18

Right Out: 64.929+/-0.030  $\chi^2/\text{NDF}$ : 1334580.7/17

Left In: 104.387+/-0.011  $\chi^2/\text{NDF}$ : 528538.6/17

Left: 104.664+/-0.008  $\chi^2/\text{NDF}$ : 1125585.2/36

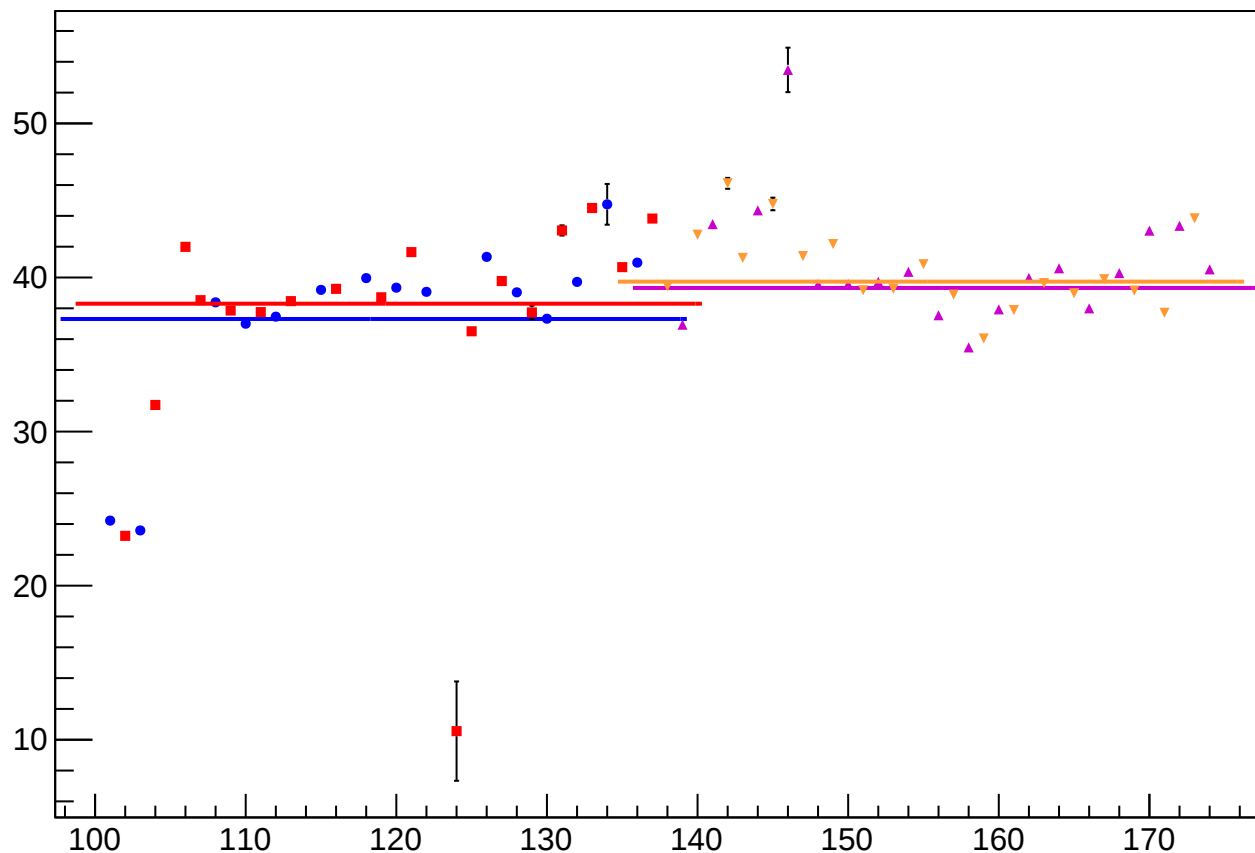
Right: 65.988+/-0.020  $\chi^2/\text{NDF}$ : 2831116.5/32

In: 98.984+/-0.010  $\chi^2/\text{NDF}$ : 3668468.4/32

Out: 99.971+/-0.010  $\chi^2/\text{NDF}$ : 3517127.1/36

All: 99.467+/-0.007  $\chi^2/\text{NDF}$ : 7190122.6/69

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $39.732 \pm 0.032$   $\chi^2/\text{NDF}: 5051.8/18$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

Left In:  $39.322 \pm 0.025$   $\chi^2/\text{NDF}: 7579.0/17$

Left:  $39.483 \pm 0.020$   $\chi^2/\text{NDF}: 12733.6/36$

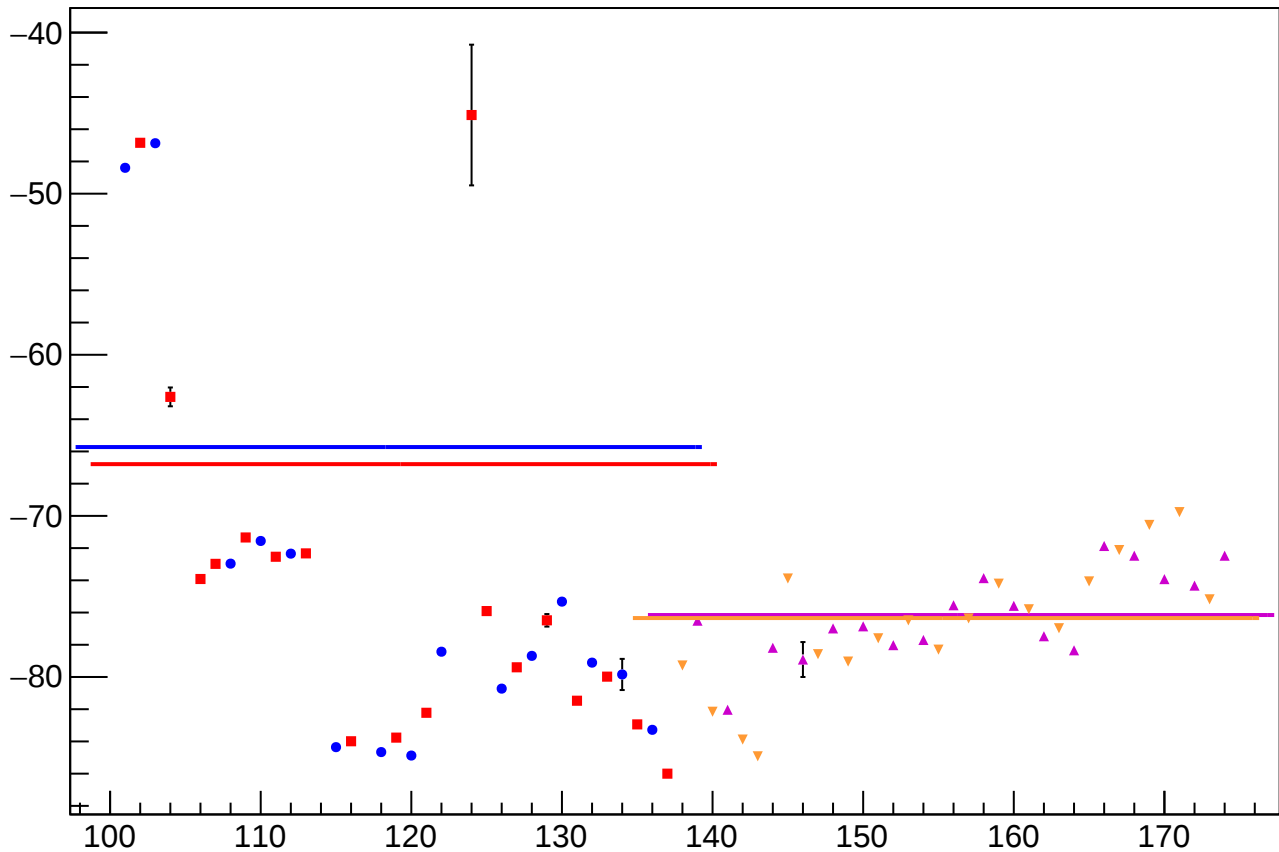
Right:  $37.862 \pm 0.015$   $\chi^2/\text{NDF}: 79451.9/32$

In:  $38.219 \pm 0.017$   $\chi^2/\text{NDF}: 70602.7/32$

Out:  $38.726 \pm 0.017$   $\chi^2/\text{NDF}: 25343.0/36$

All:  $38.471 \pm 0.012$   $\chi^2/\text{NDF}: 96384.1/69$

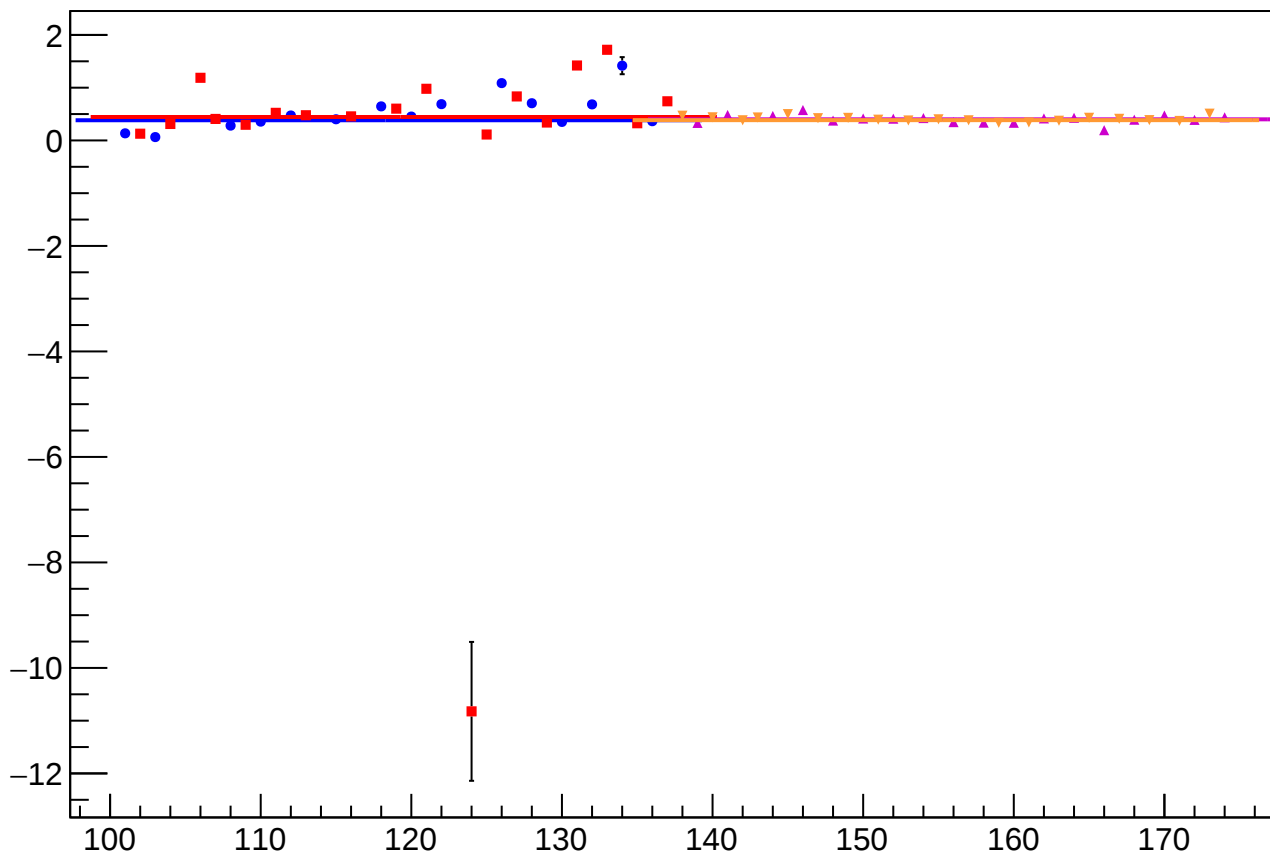
# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$   
 Left Out:  $-76.342 \pm 0.026$   $\chi^2/\text{NDF}: 21717.9/18$   
 Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$   
 Left In:  $-76.154 \pm 0.021$   $\chi^2/\text{NDF}: 10074.9/17$

Left:  $-76.226 \pm 0.016$   $\chi^2/\text{NDF}: 31825.0/36$   
 Right:  $-66.292 \pm 0.012$   $\chi^2/\text{NDF}: 1714516.0/32$   
 In:  $-69.908 \pm 0.013$   $\chi^2/\text{NDF}: 1066636.1/32$   
 Out:  $-69.368 \pm 0.014$   $\chi^2/\text{NDF}: 929719.9/36$   
 All:  $-69.647 \pm 0.009$   $\chi^2/\text{NDF}: 1997182.7/69$

dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.385 $\pm$ 0.000  $\chi^2$ /NDF:8962.5/18

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

Left In: 0.400 $\pm$ 0.000  $\chi^2$ /NDF:8007.7/17

Left: 0.392 $\pm$ 0.000  $\chi^2$ /NDF: 17469.6/36

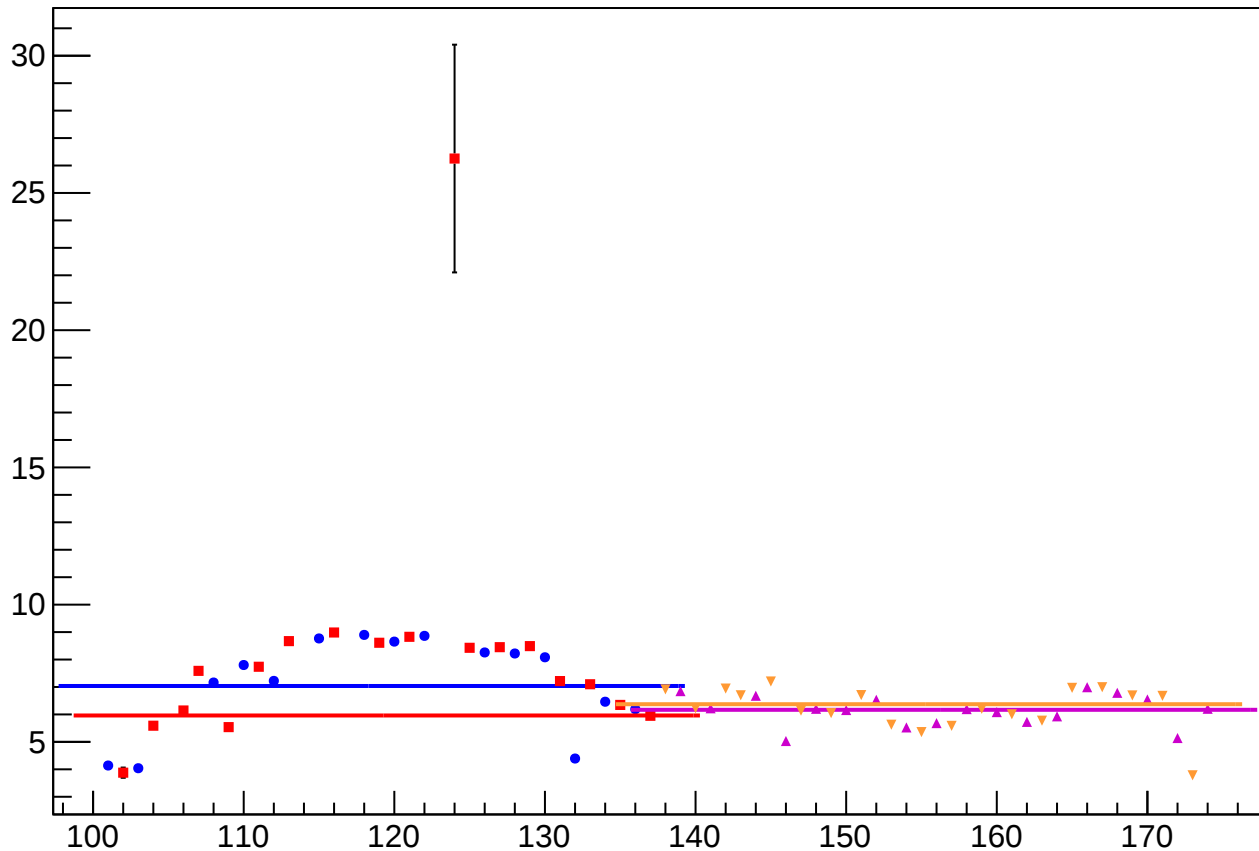
Right: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 11182.8/32

In: 0.399 $\pm$ 0.000  $\chi^2$ /NDF:16262.0/32

Out: 0.386 $\pm$ 0.000  $\chi^2$ /NDF:12008.2/36

All: 0.393 $\pm$ 0.000  $\chi^2$ /NDF: 28655.5/69

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}$ : 69905.1/14

Left Out:  $6.372 \pm 0.002$   $\chi^2/\text{NDF}$ : 68313.1/18

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}$ : 168372.8/17

Left In:  $6.168 \pm 0.002$   $\chi^2/\text{NDF}$ : 45250.1/17

Left:  $6.264 \pm 0.001$   $\chi^2/\text{NDF}$ : 121612.5/36

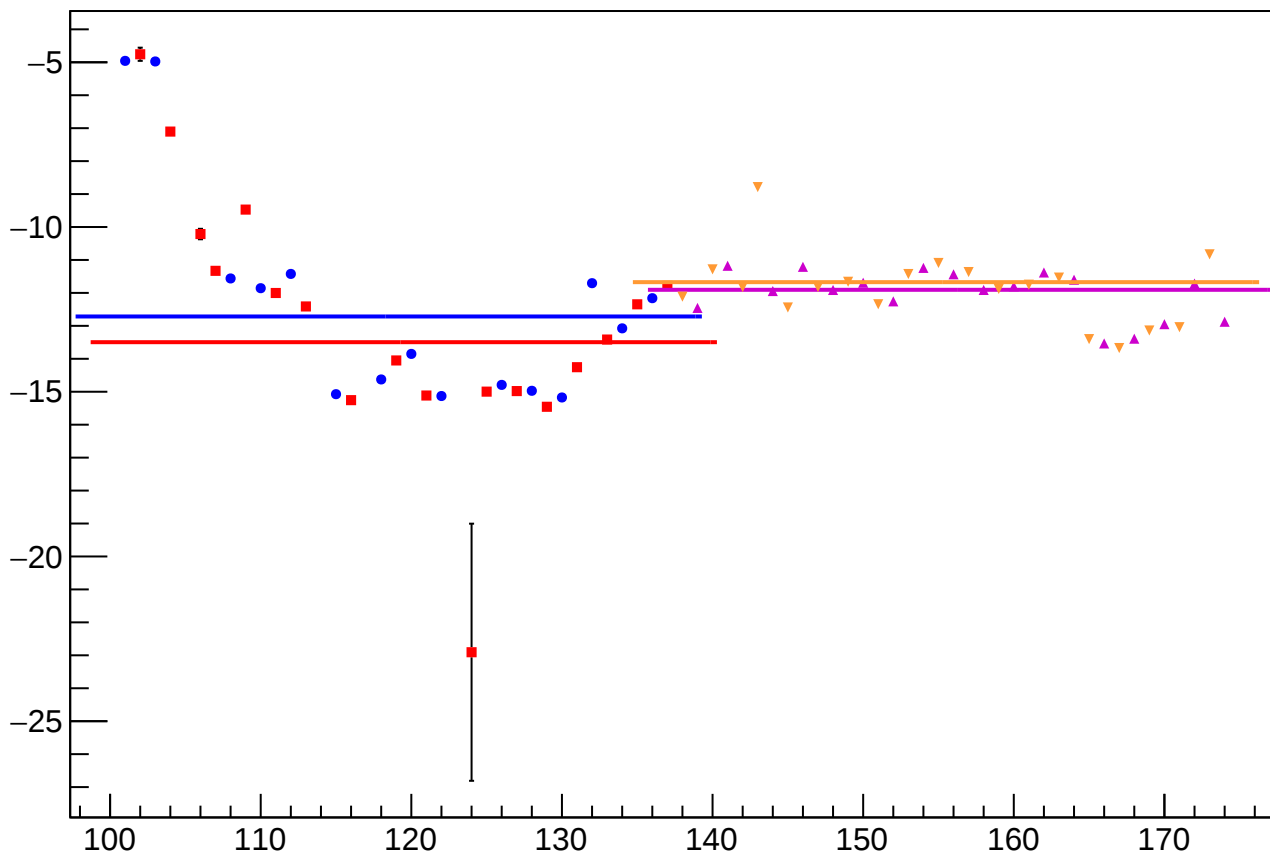
Right:  $5.970 \pm 0.000$   $\chi^2/\text{NDF}$ : 294275.6/32

In:  $6.260 \pm 0.001$   $\chi^2/\text{NDF}$ : 148083.0/32

Out:  $5.985 \pm 0.000$   $\chi^2/\text{NDF}$ : 294745.9/36

All:  $6.004 \pm 0.000$   $\chi^2/\text{NDF}$ : 475380.7/69

# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}: 85219.4/14$

Left Out:  $-11.674 \pm 0.002$   $\chi^2/\text{NDF}: 334021.3/18$

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}: 55753.8/17$

Left In:  $-11.906 \pm 0.002$   $\chi^2/\text{NDF}: 63449.4/17$

Left:  $-11.793 \pm 0.002$   $\chi^2/\text{NDF}: 403016.2/36$

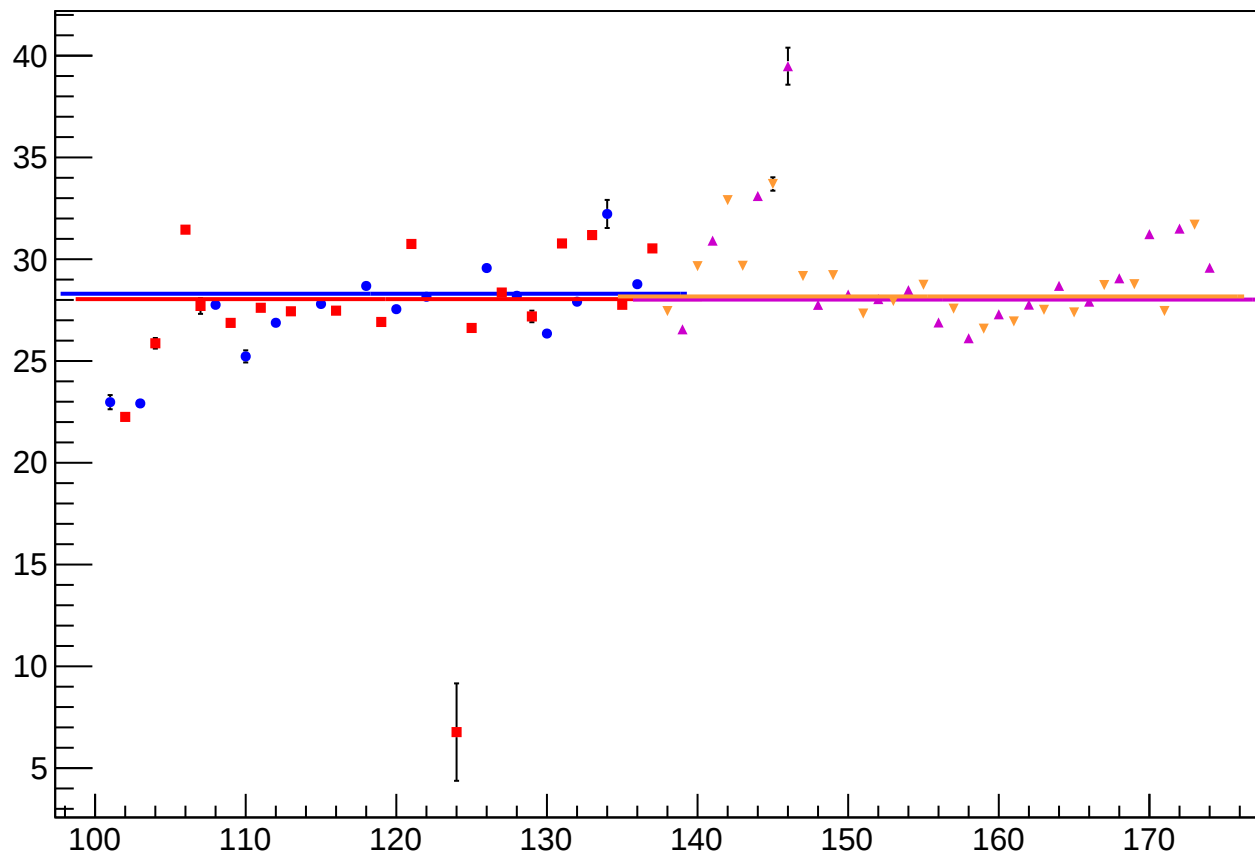
Right:  $-13.142 \pm 0.004$   $\chi^2/\text{NDF}: 149153.5/32$

In:  $-11.990 \pm 0.002$   $\chi^2/\text{NDF}: 163094.7/32$

Out:  $-11.910 \pm 0.002$   $\chi^2/\text{NDF}: 475371.5/36$

All:  $-11.951 \pm 0.001$   $\chi^2/\text{NDF}: 639220.7/69$

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In: 28.304 $\pm$ 0.023  $\chi^2$ /NDF: 3400.0/14

Left Out: 28.171 $\pm$ 0.019  $\chi^2$ /NDF: 5617.9/18

Right Out: 28.040 $\pm$ 0.030  $\chi^2$ /NDF: 2561.5/17

Left In: 28.018 $\pm$ 0.016  $\chi^2$ /NDF: 7786.5/17

Left: 28.080 $\pm$ 0.012  $\chi^2$ /NDF: 13442.9/36

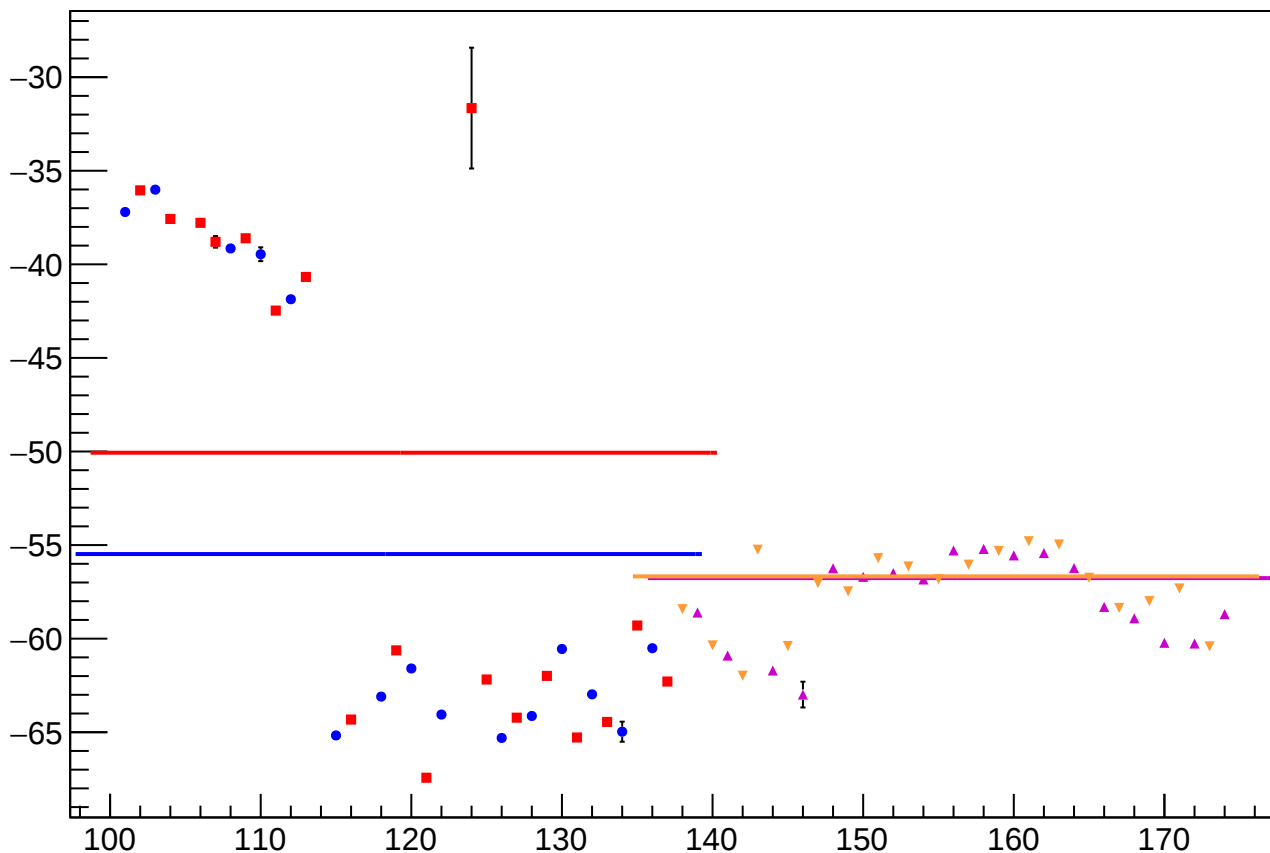
Right: 28.207 $\pm$ 0.018  $\chi^2$ /NDF: 6009.6/32

In: 28.108 $\pm$ 0.013  $\chi^2$ /NDF: 11291.7/32

Out: 28.134 $\pm$ 0.016  $\chi^2$ /NDF: 8192.8/36

All: 28.118 $\pm$ 0.010  $\chi^2$ /NDF: 19485.9/69

# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}$ : 595140.3/14

Left Out:  $-56.673 \pm 0.016$   $\chi^2/\text{NDF}$ : 12022.7/18

Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}$ : 340098.3/17

Left In:  $-56.765 \pm 0.013$   $\chi^2/\text{NDF}$ : 13680.2/17

Left:  $-56.727 \pm 0.010$   $\chi^2/\text{NDF}$ : 25722.4/36

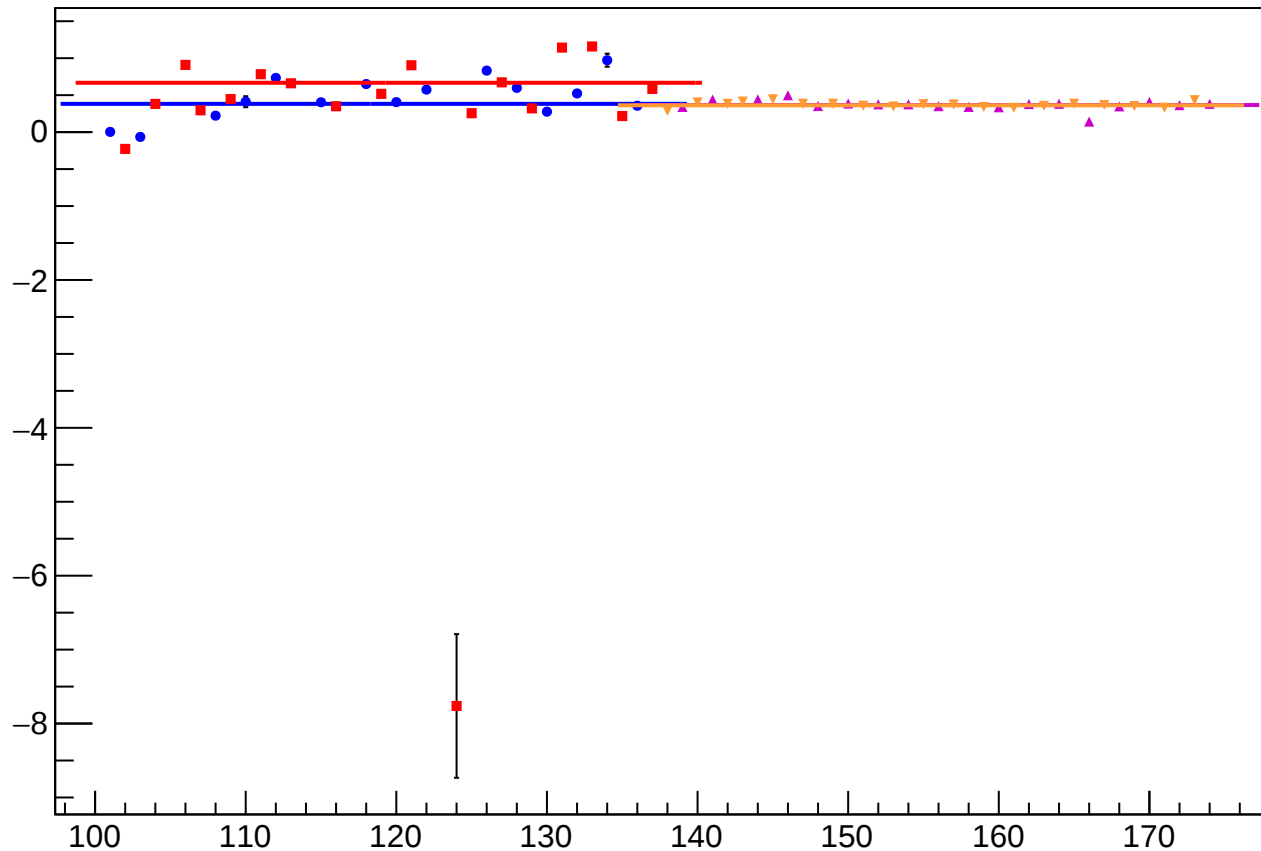
Right:  $-53.644 \pm 0.013$   $\chi^2/\text{NDF}$ : 971470.1/32

In:  $-56.260 \pm 0.010$   $\chi^2/\text{NDF}$ : 612476.2/32

Out:  $-54.546 \pm 0.013$   $\chi^2/\text{NDF}$ : 407484.3/36

All:  $-55.600 \pm 0.008$   $\chi^2/\text{NDF}$ : 1030457.5/69

# dit\_sam8\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}: 4595.8/14$

Left Out:  $0.363 \pm 0.000$   $\chi^2/\text{NDF}: 7731.7/18$

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}: 3704.8/17$

Left In:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}: 5800.7/17$

Left:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}: 13581.0/36$

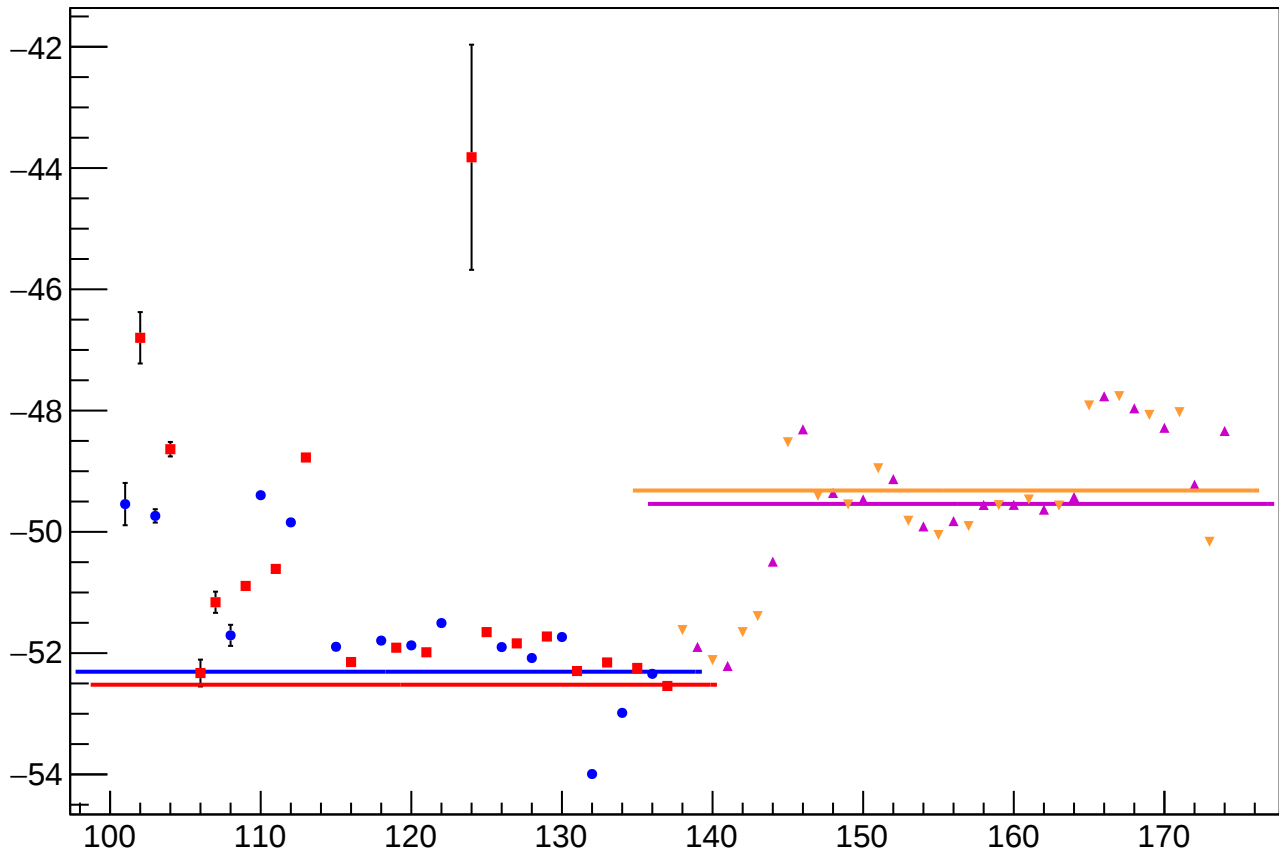
Right:  $0.413 \pm 0.002$   $\chi^2/\text{NDF}: 11721.4/32$

In:  $0.367 \pm 0.000$   $\chi^2/\text{NDF}: 10490.7/32$

Out:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}: 15785.4/36$

All:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}: 26300.0/69$

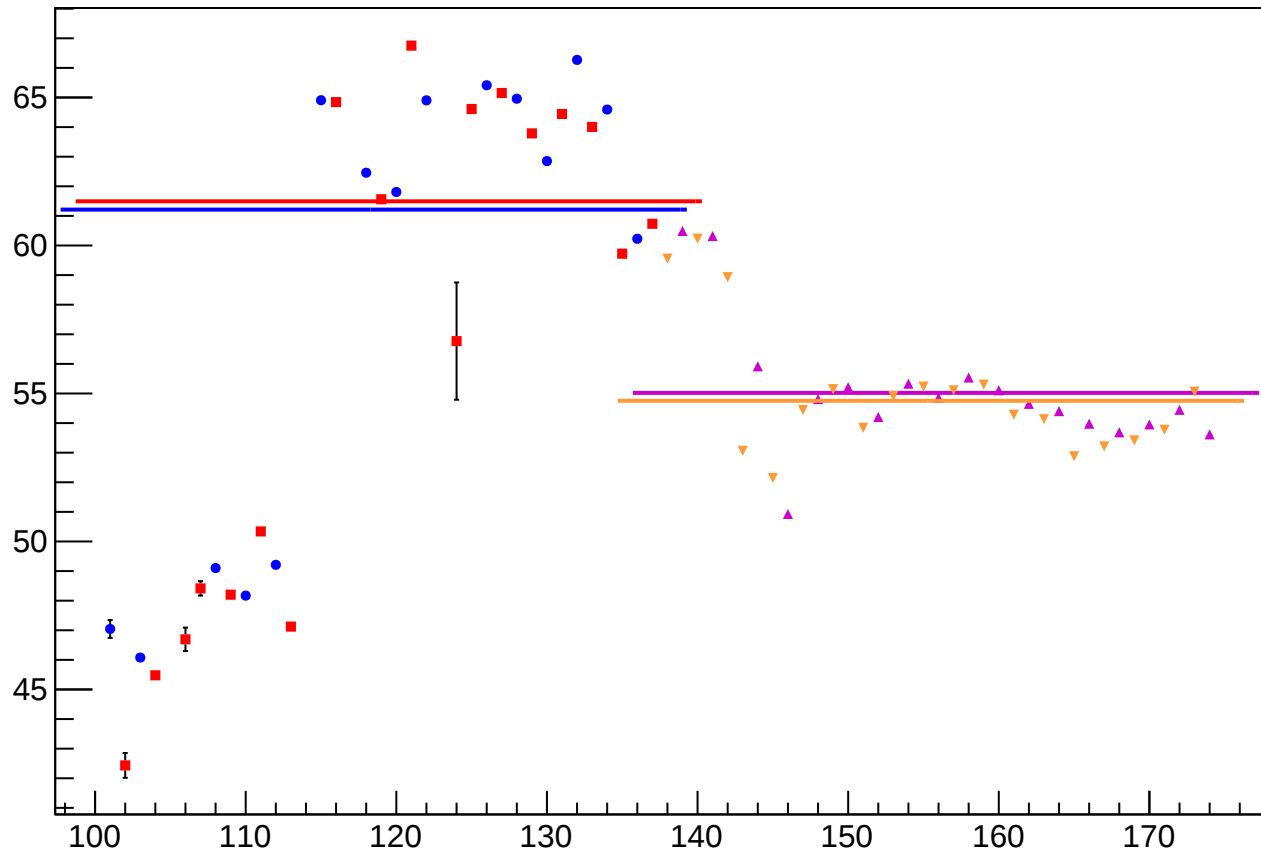
# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}: 25427.4/14$   
 Left Out:  $-49.318 \pm 0.001$   $\chi^2/\text{NDF}: 501070.6/18$   
 Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}: 14961.7/17$   
 Left In:  $-49.539 \pm 0.001$   $\chi^2/\text{NDF}: 414775.3/17$

Left:  $-49.428 \pm 0.001$   $\chi^2/\text{NDF}: 927468.3/36$   
 Right:  $-52.505 \pm 0.001$   $\chi^2/\text{NDF}: 43203.2/32$   
 In:  $-49.879 \pm 0.001$   $\chi^2/\text{NDF}: 886327.9/32$   
 Out:  $-51.345 \pm 0.001$   $\chi^2/\text{NDF}: 3609589.0/36$   
 All:  $-50.914 \pm 0.001$   $\chi^2/\text{NDF}: 5315815.4/69$

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In: 61.213 $\pm$ 0.010  $\chi^2$ /NDF: 156624.5/14

Left Out: 54.754 $\pm$ 0.003  $\chi^2$ /NDF: 248043.1/18

Right Out: 61.493 $\pm$ 0.007  $\chi^2$ /NDF: 243479.8/17

Left In: 55.020 $\pm$ 0.003  $\chi^2$ /NDF: 81474.2/17

Left: 54.901 $\pm$ 0.002  $\chi^2$ /NDF: 333326.9/36

Right: 61.405 $\pm$ 0.006  $\chi^2$ /NDF: 400649.5/32

In: 55.504 $\pm$ 0.003  $\chi^2$ /NDF: 596833.7/32

Out: 56.004 $\pm$ 0.003  $\chi^2$ /NDF: 1311307.6/36

All: 55.744 $\pm$ 0.002  $\chi^2$ /NDF: 1923740.7/69

# 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

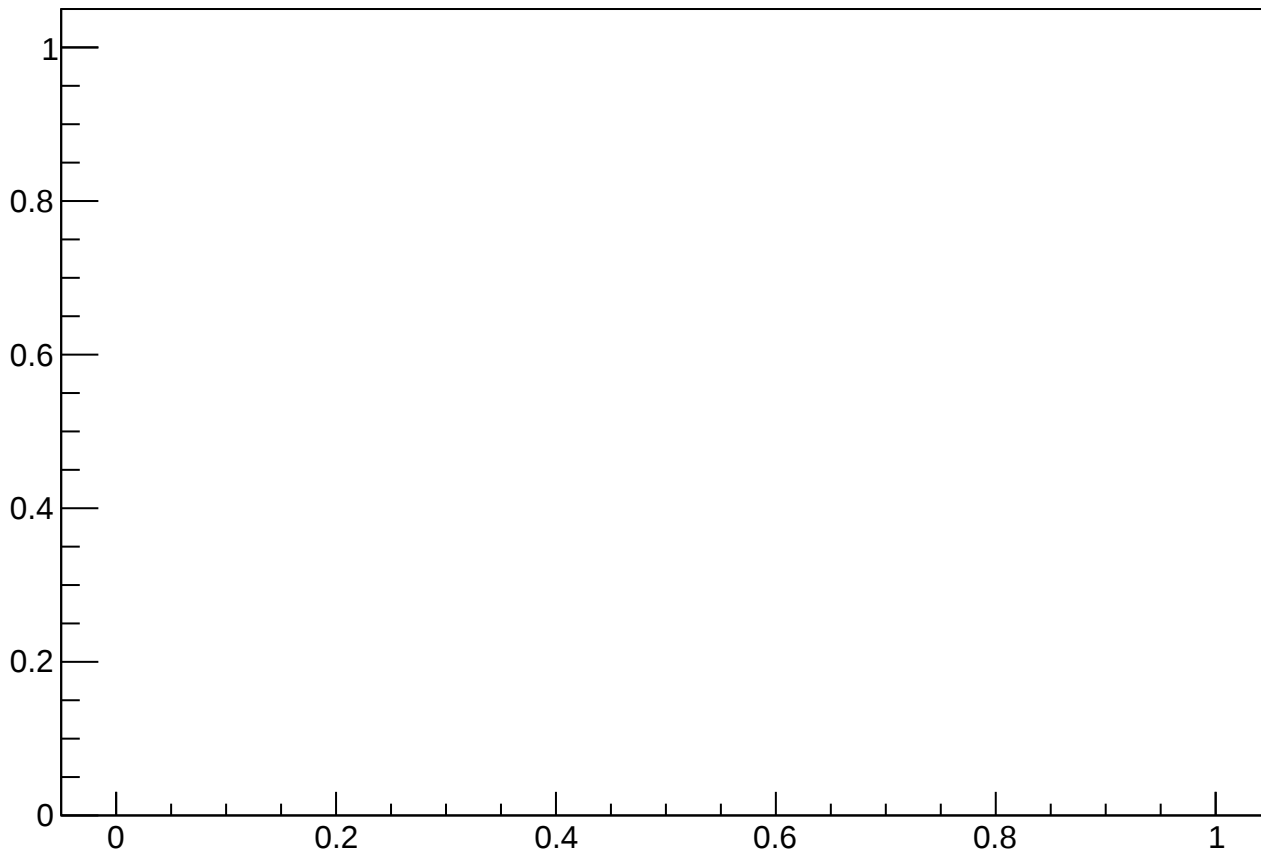
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

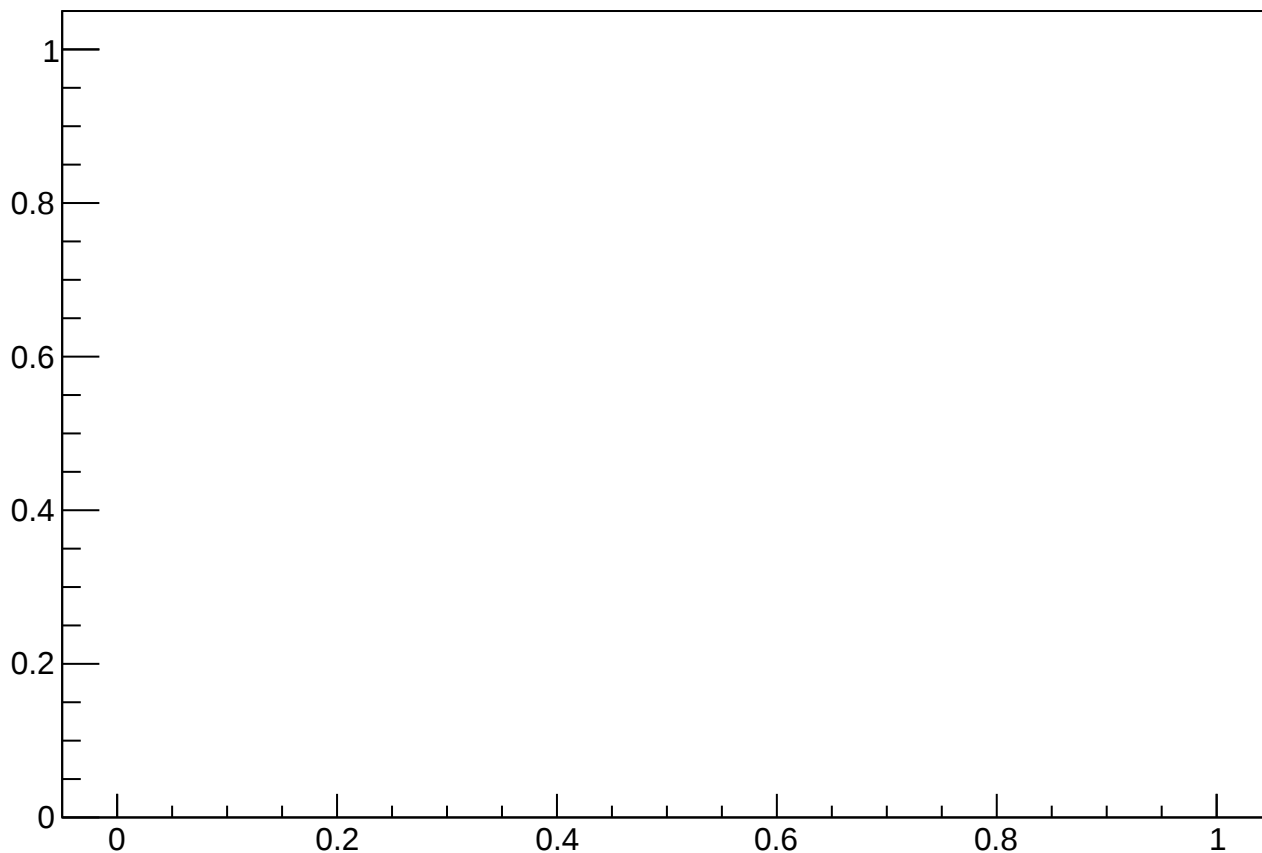
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

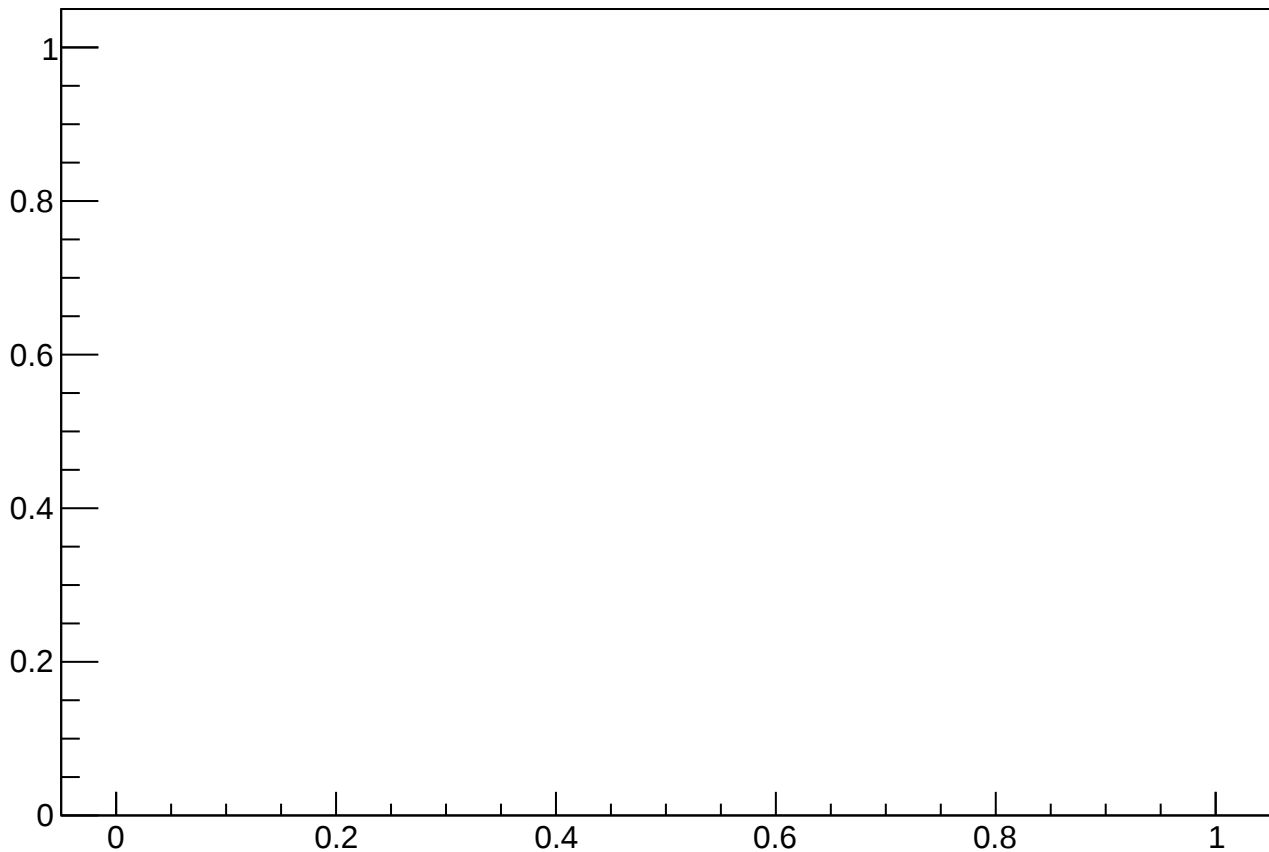
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

# dit\_atr2\_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

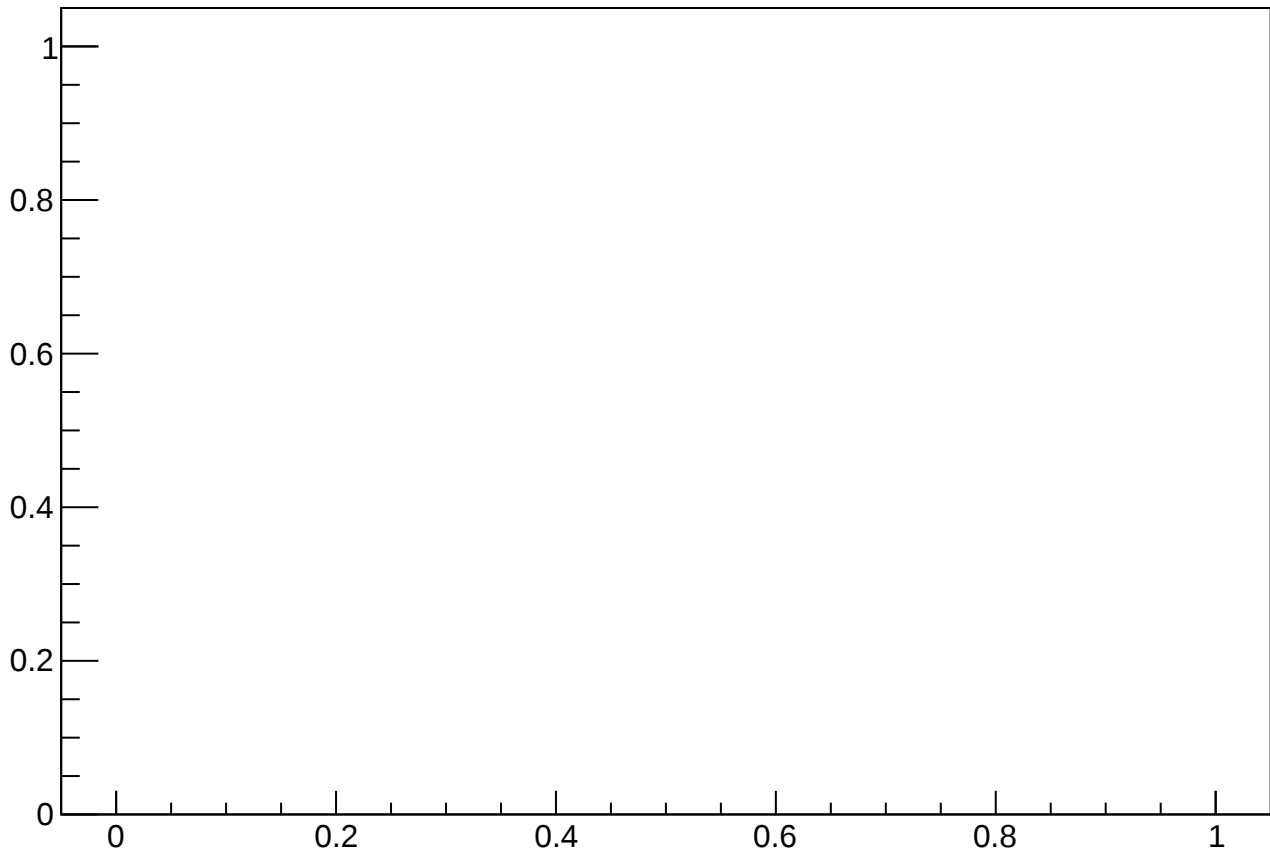
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

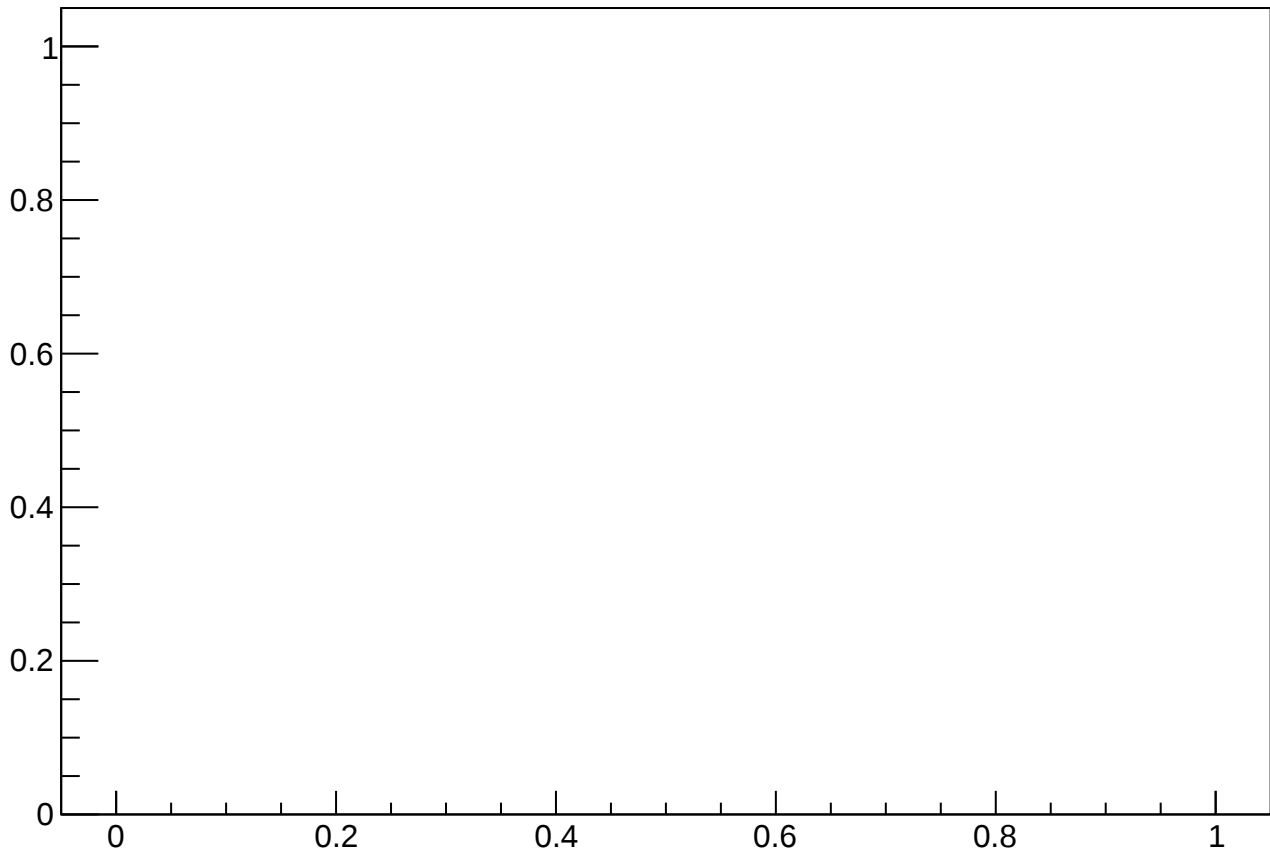
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

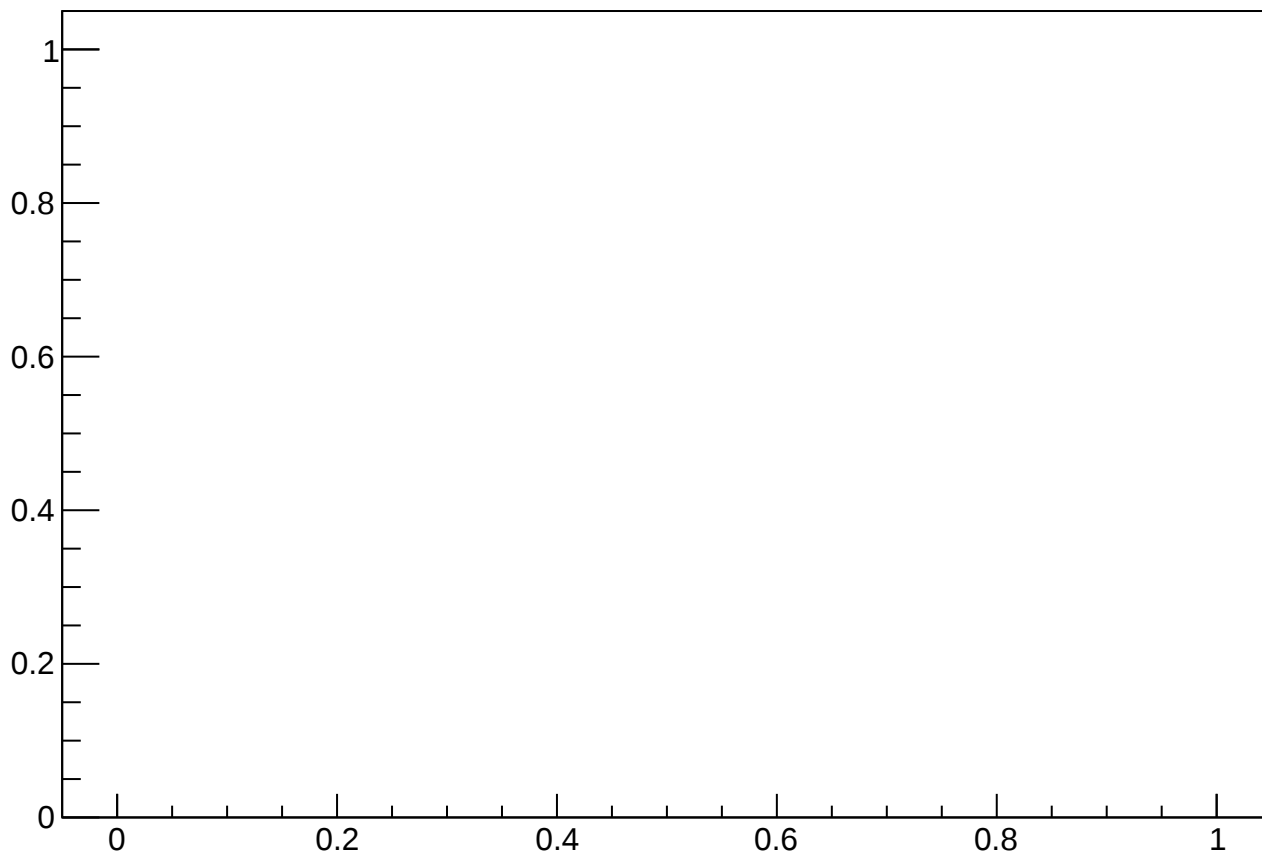
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

# dit\_4aY\_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

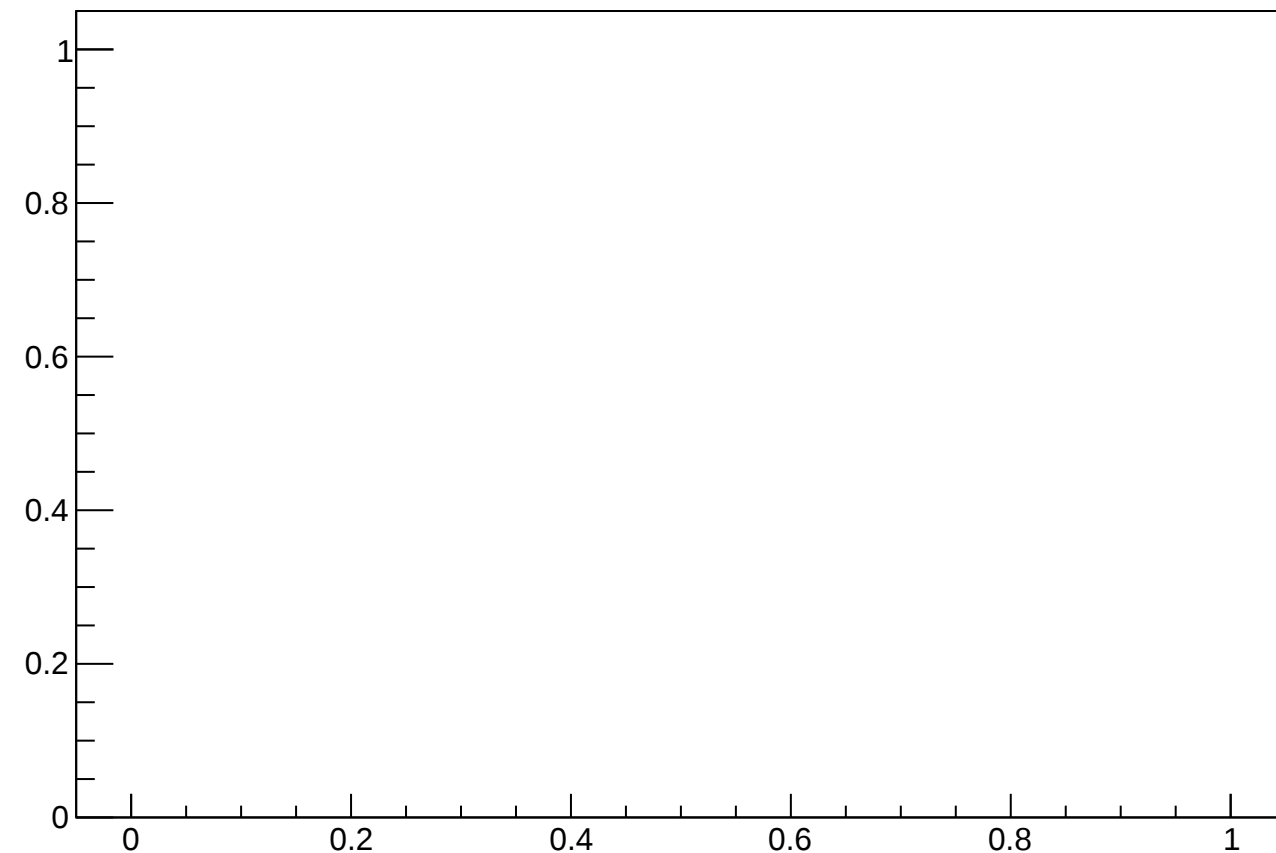
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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  $\chi^2$ /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\_atr1\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# dit\_sam3\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam3\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam3\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam4\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam6\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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 $\pm$ 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\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam7\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam8\_coil3\_mean vs Slug, Sign Corrected



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

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

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

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

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

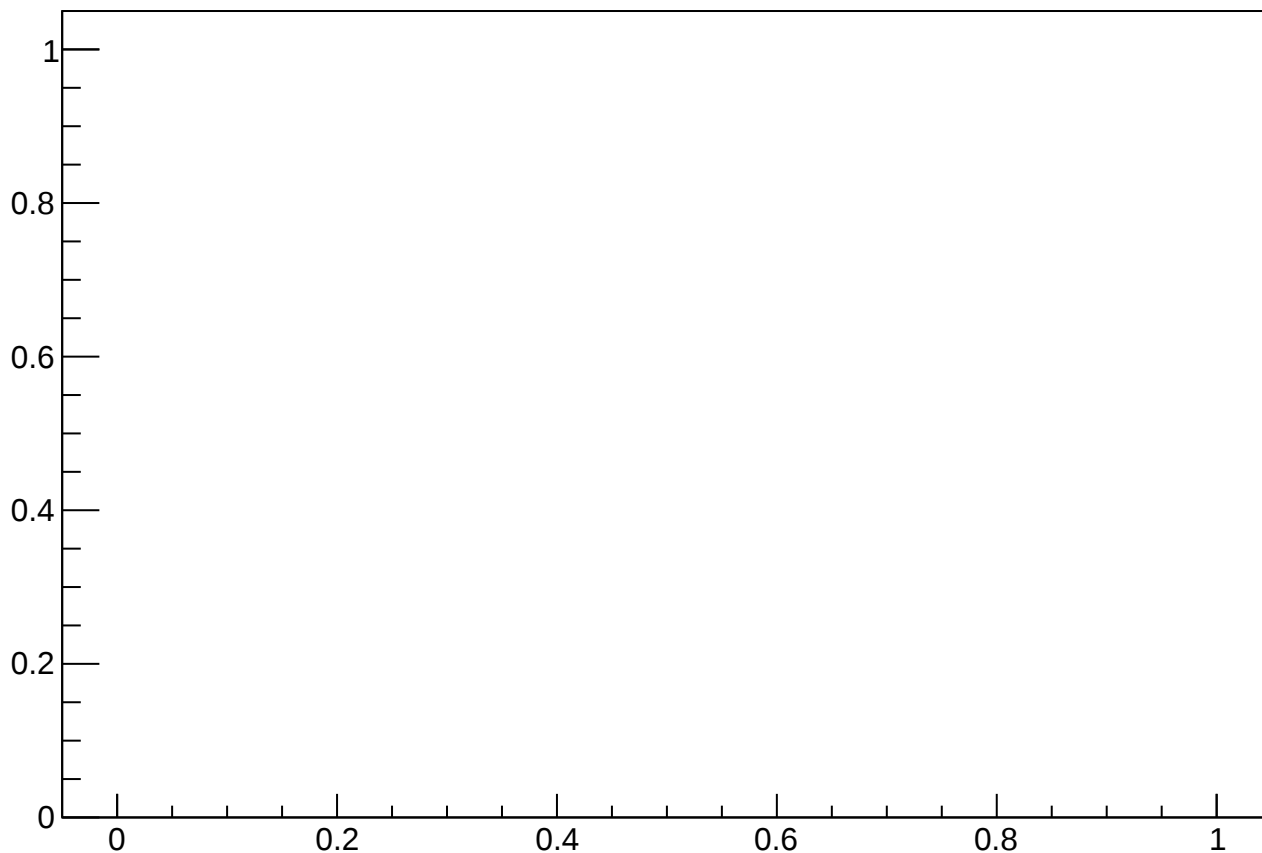
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam8\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam8\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4aX\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4aX\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_4aX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4eX\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4eX\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_4eX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_11X12X\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_11X12X\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_11X12X\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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

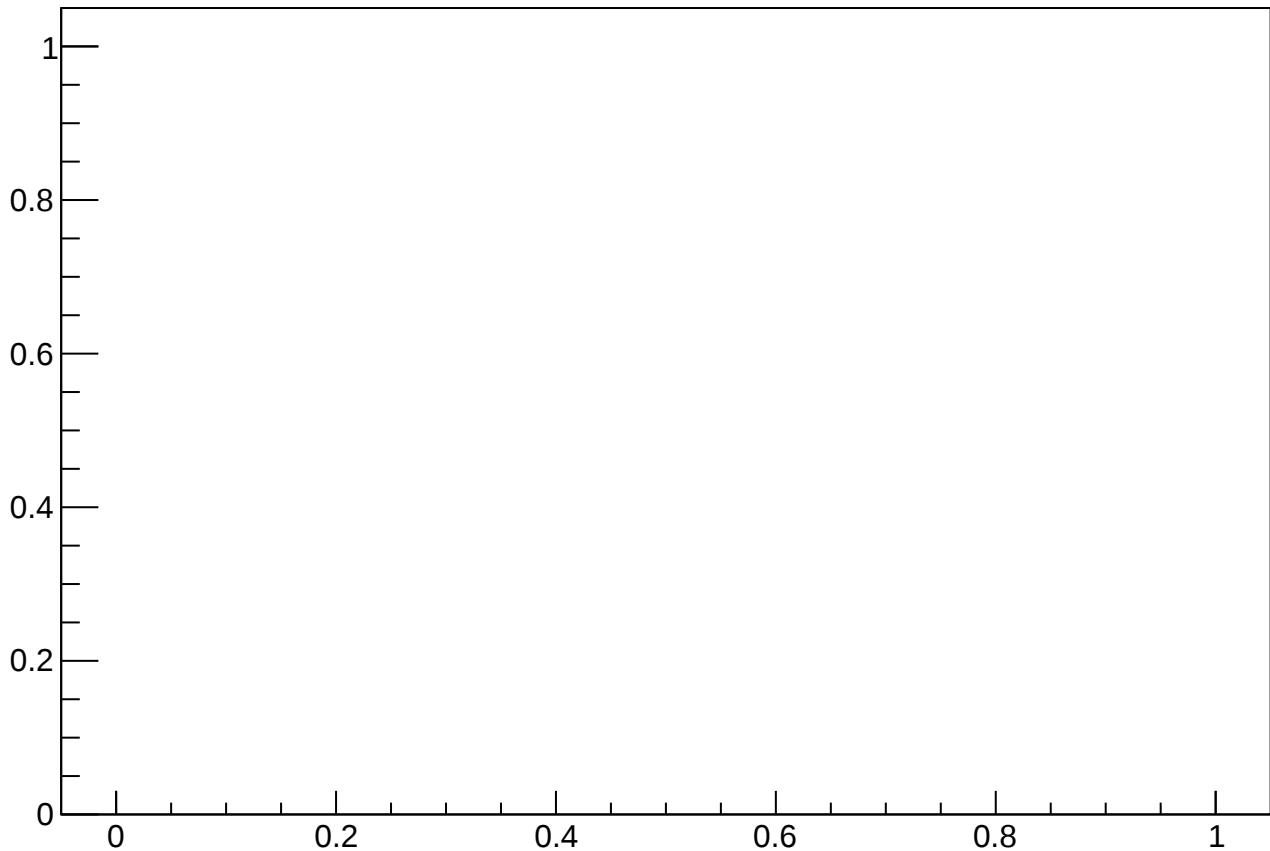
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

Out: 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  $\chi^2$ /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\_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\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_atl2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_atr1\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

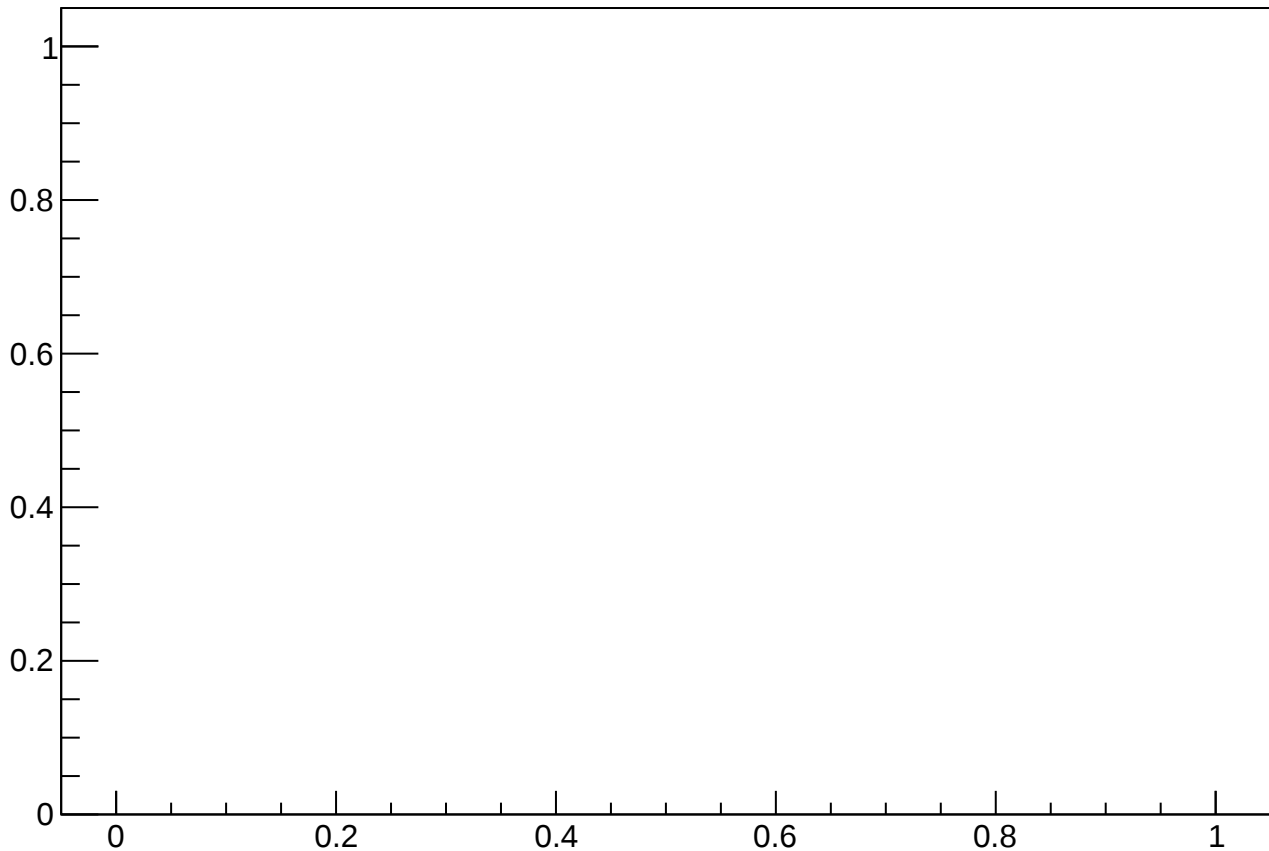
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr1\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_atr1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_atr2\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

Out: 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     $\chi^2$ /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\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam1\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam2\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam2\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_sam3\_coil7\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 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

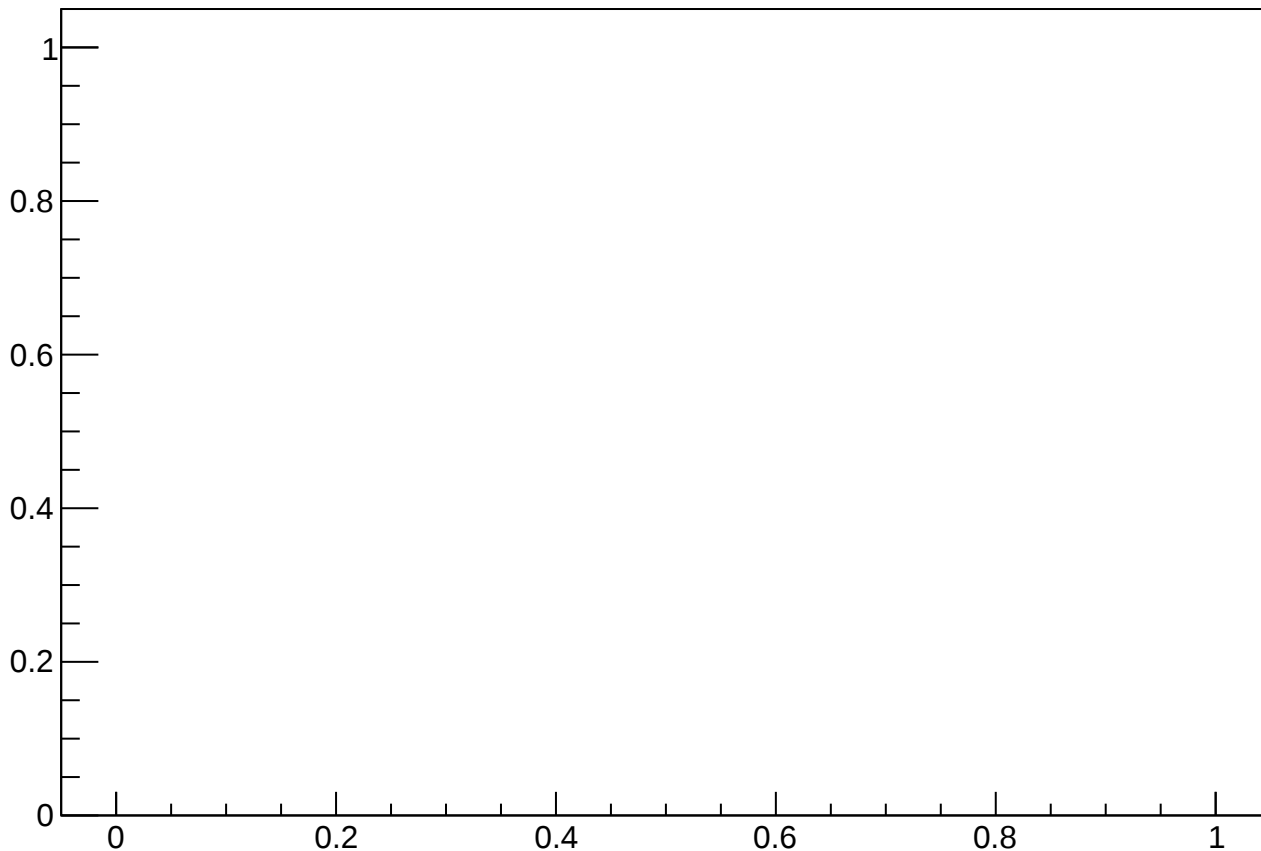
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

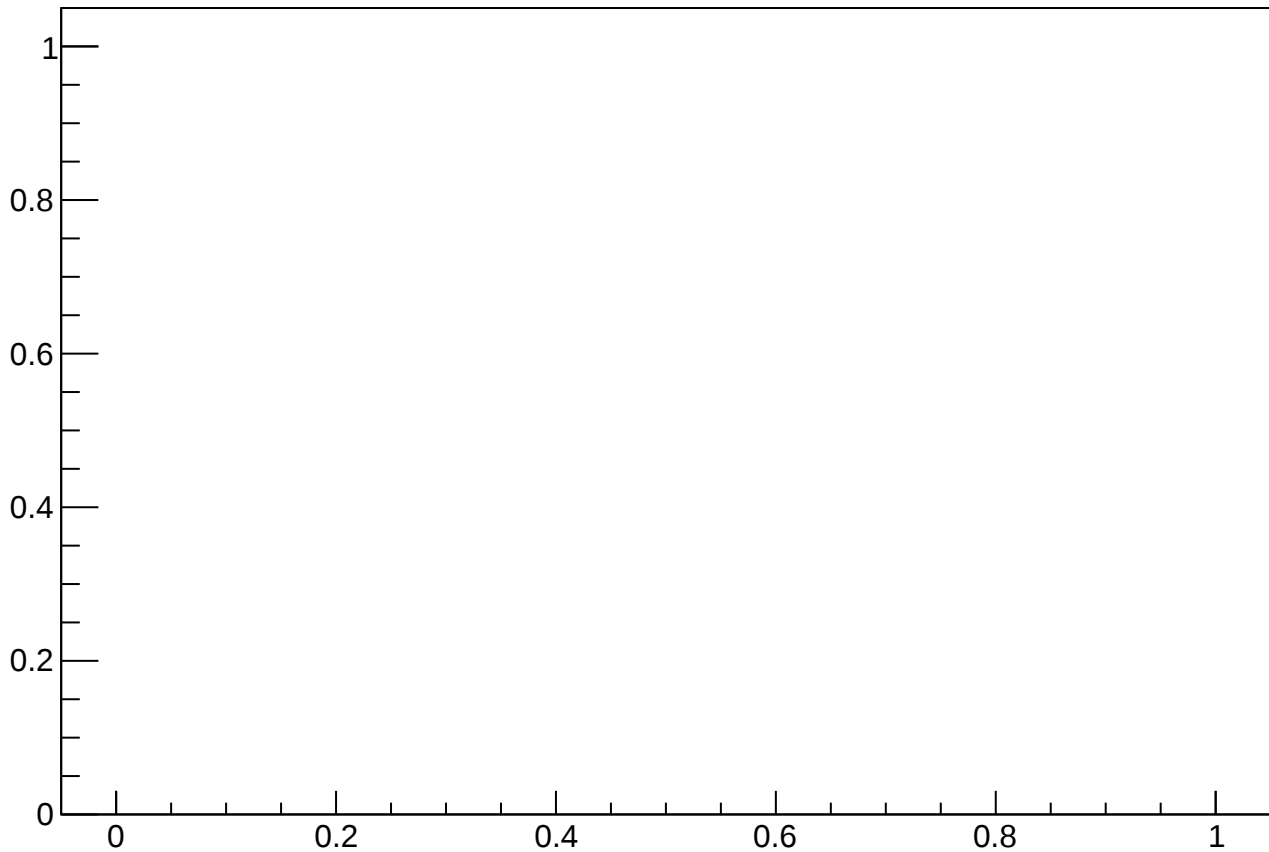
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

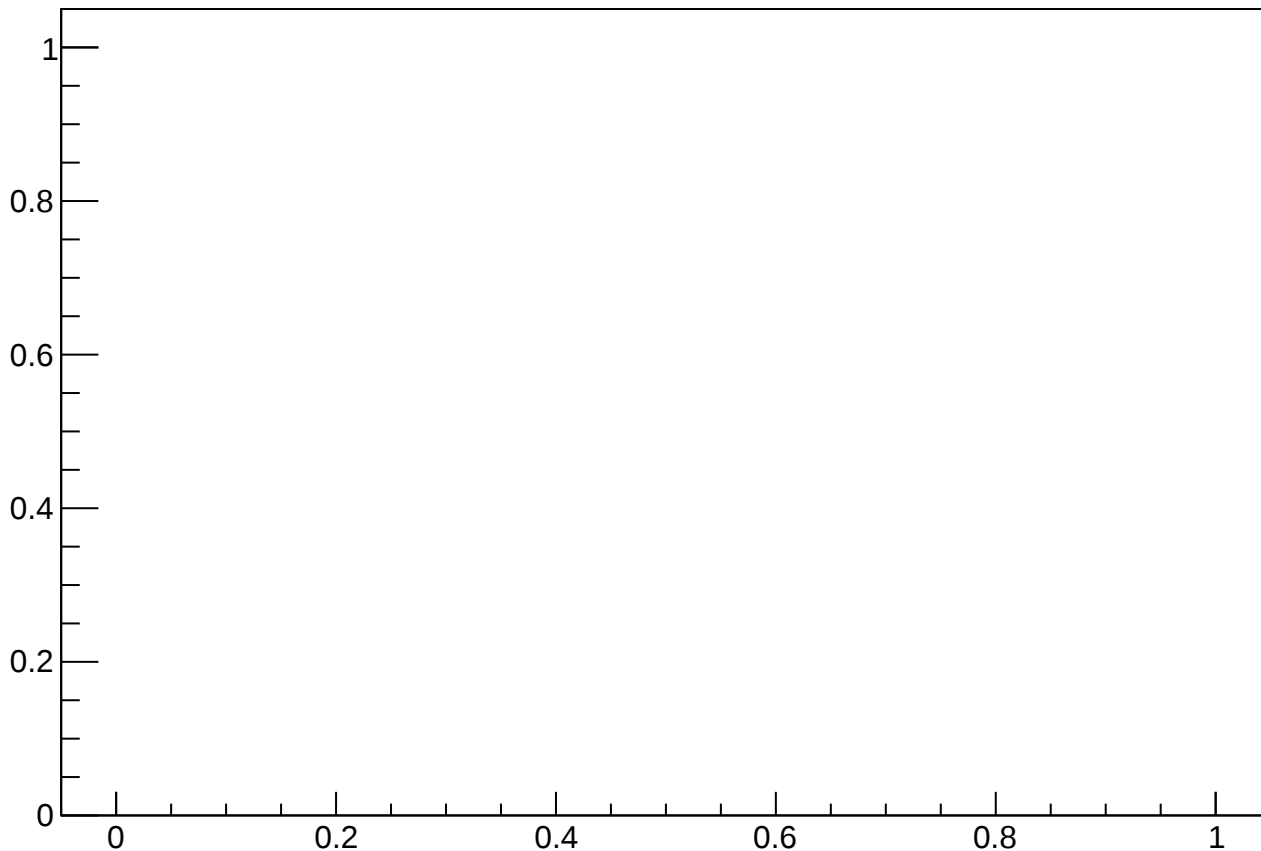
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

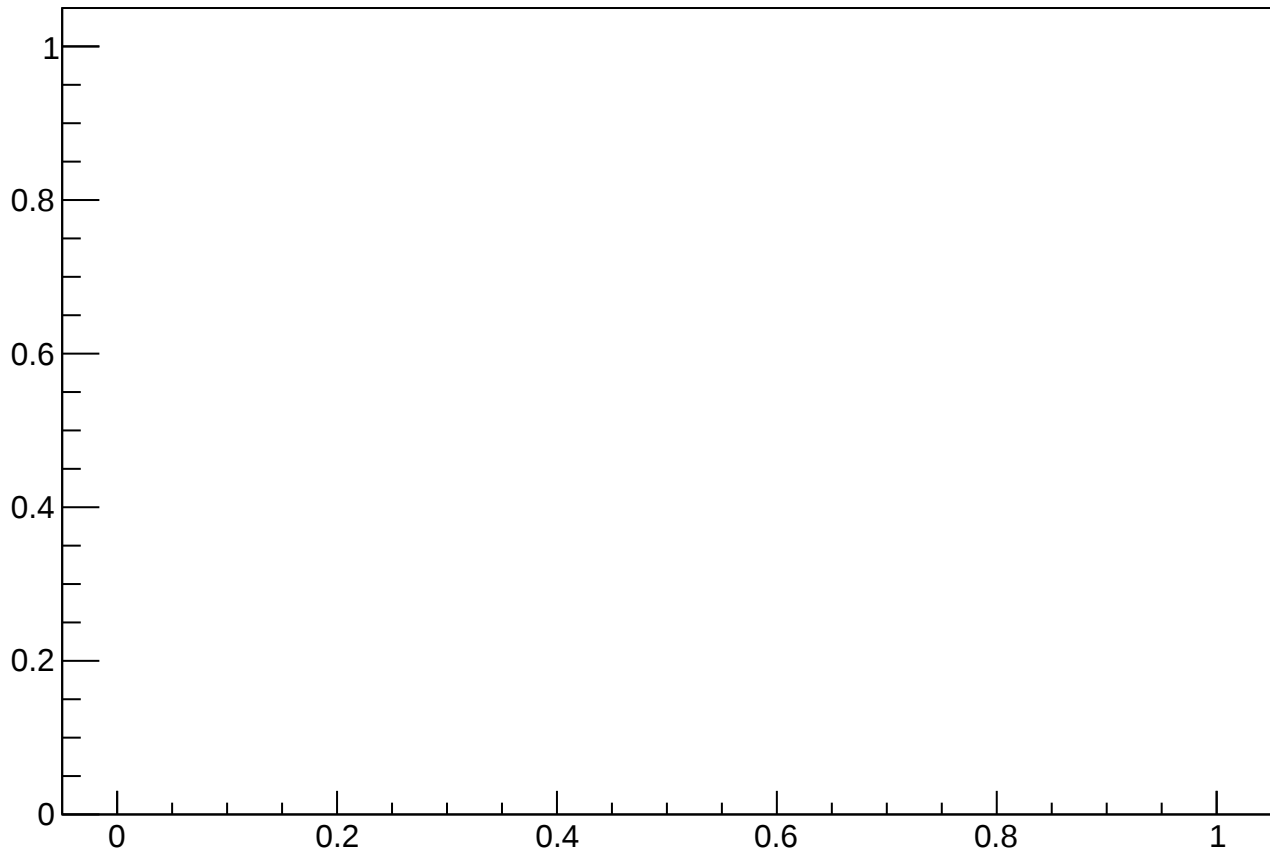
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam7\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam7\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

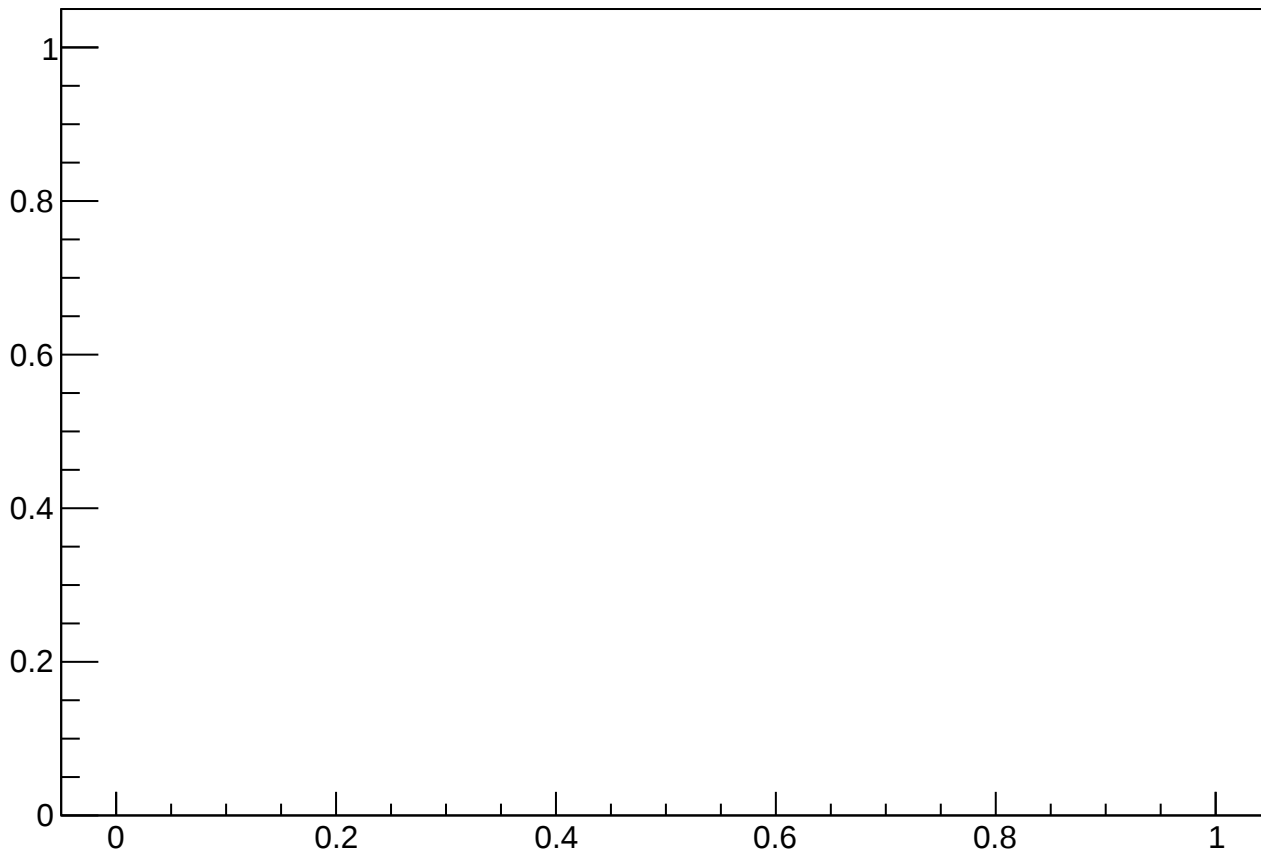
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam8\_coil7\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_sam8\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

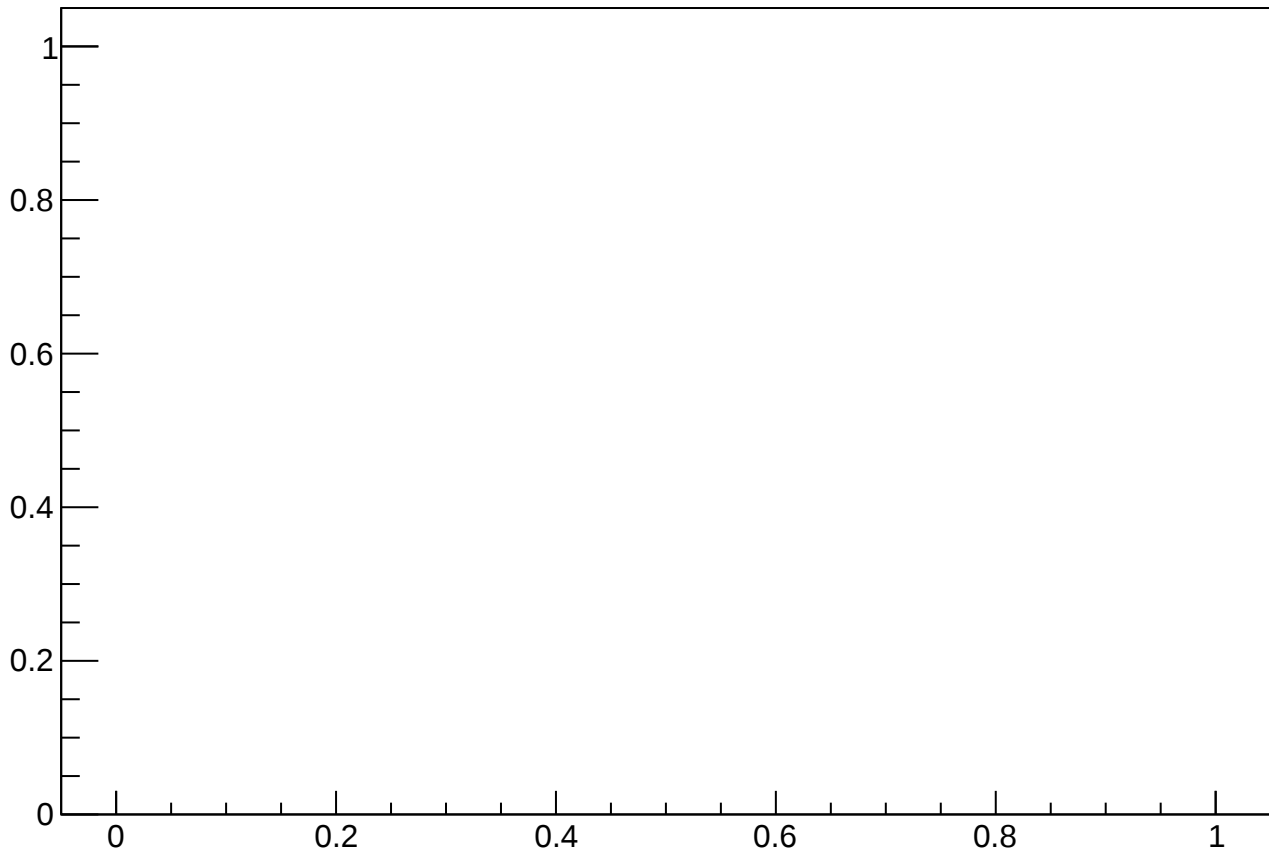
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam8\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

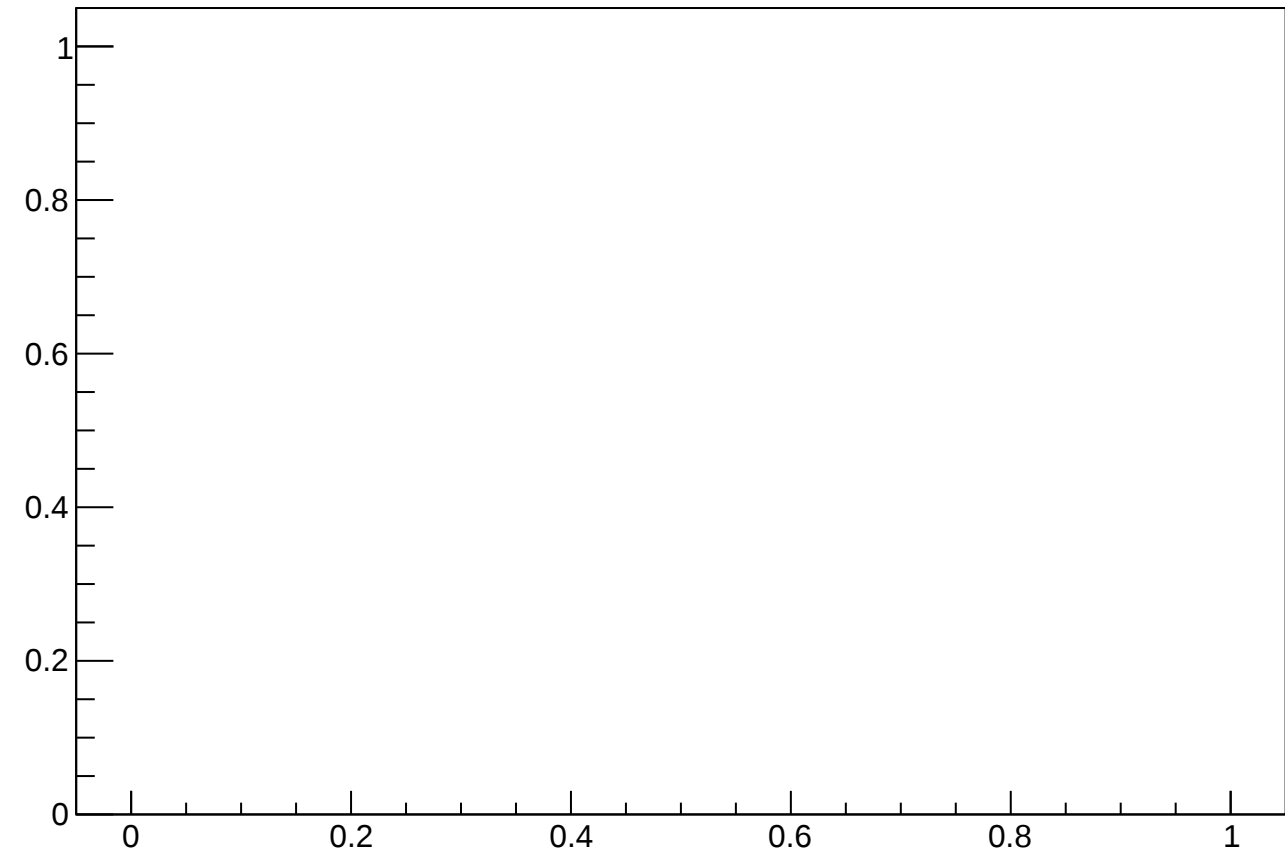
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aX\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /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\_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

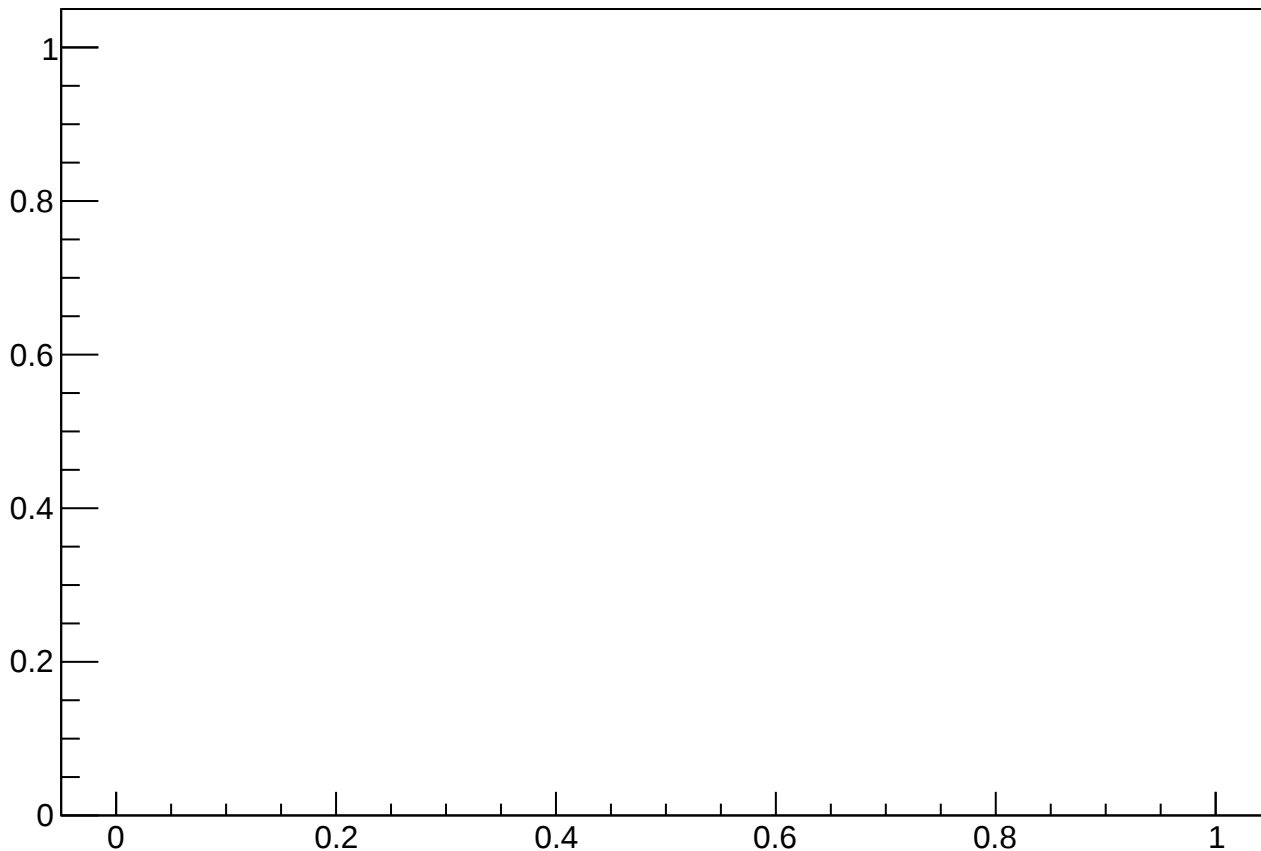
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

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

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

# dit\_11X12X\_coil4\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_11X12X\_coil4\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

dit\_11X12X\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

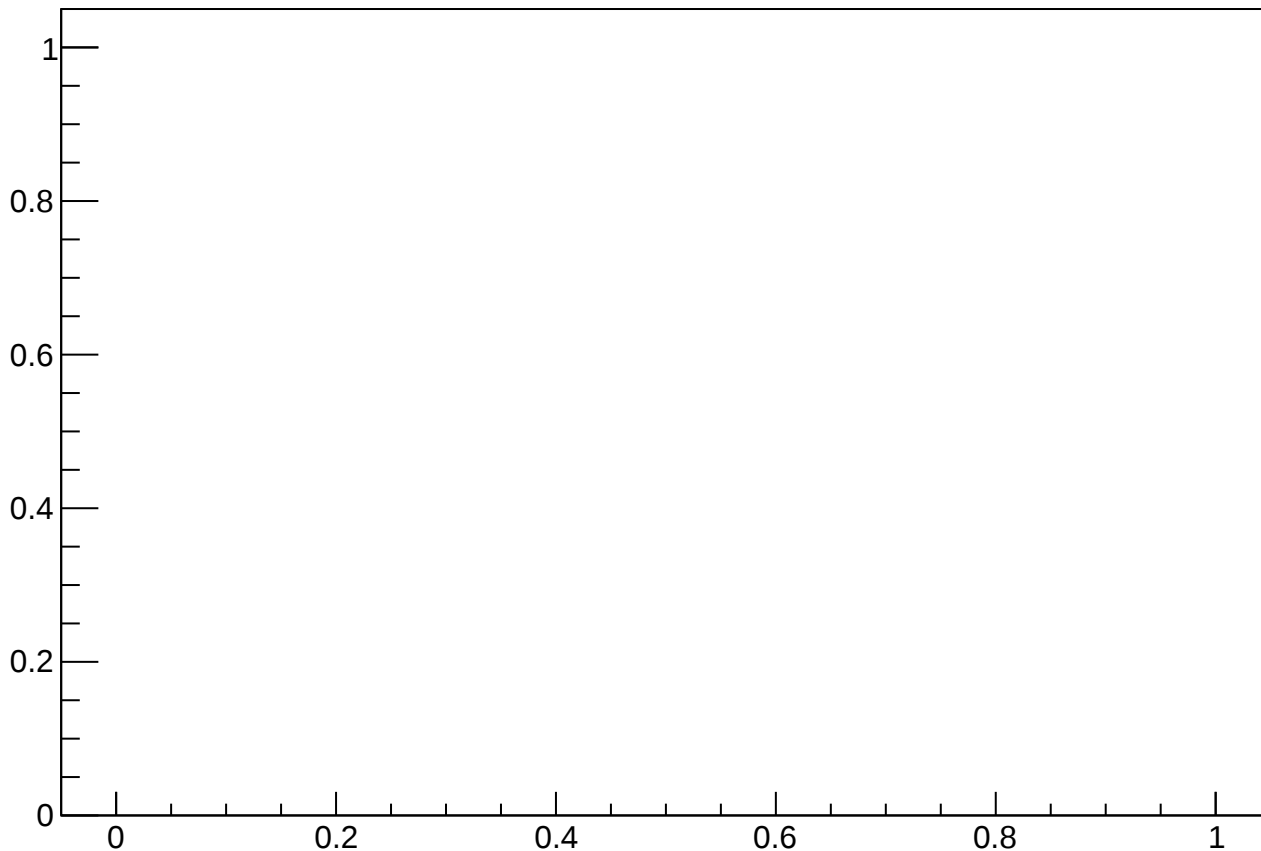
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aY\_coil4\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4aY\_coil4\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

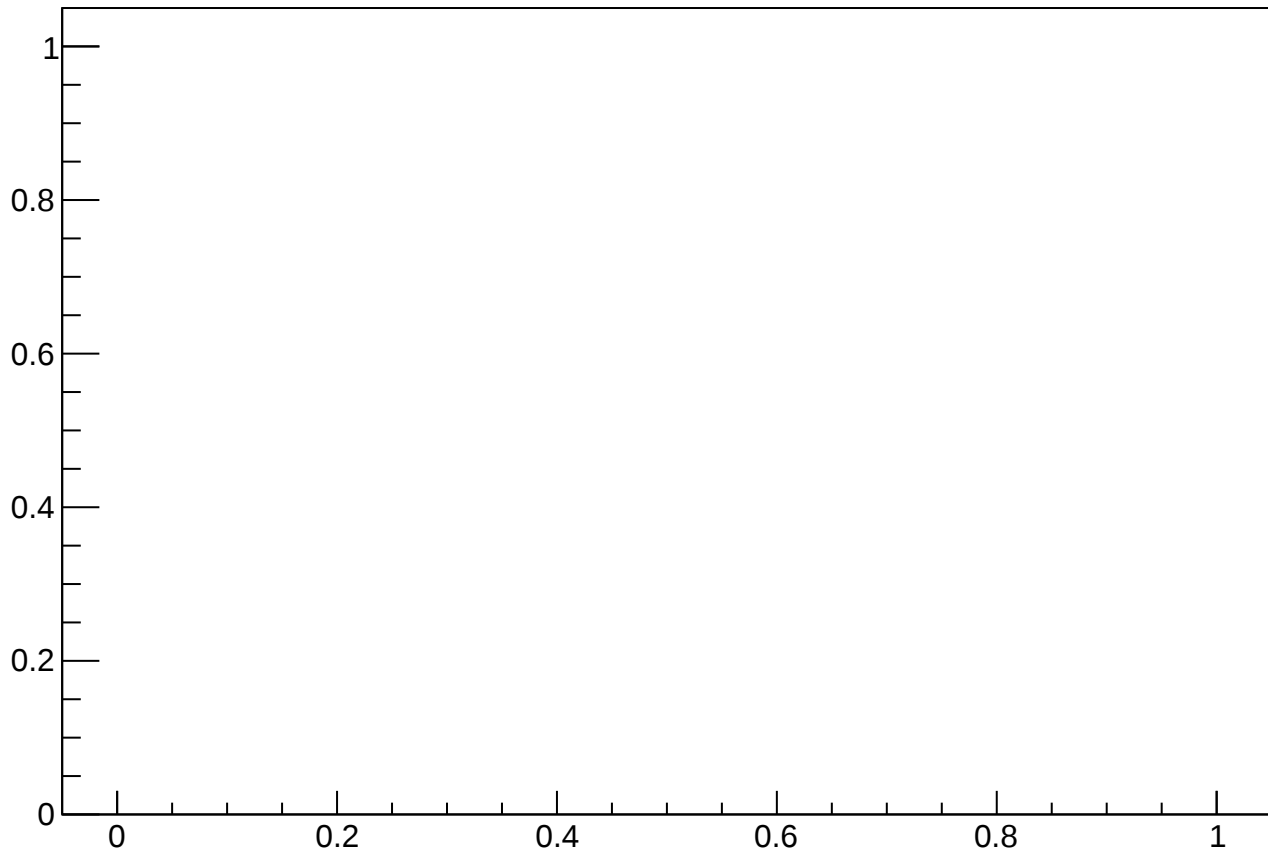
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

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

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

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

# dit\_4eY\_coil4\_mean vs Slug, Sign Corrected



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

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

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

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

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

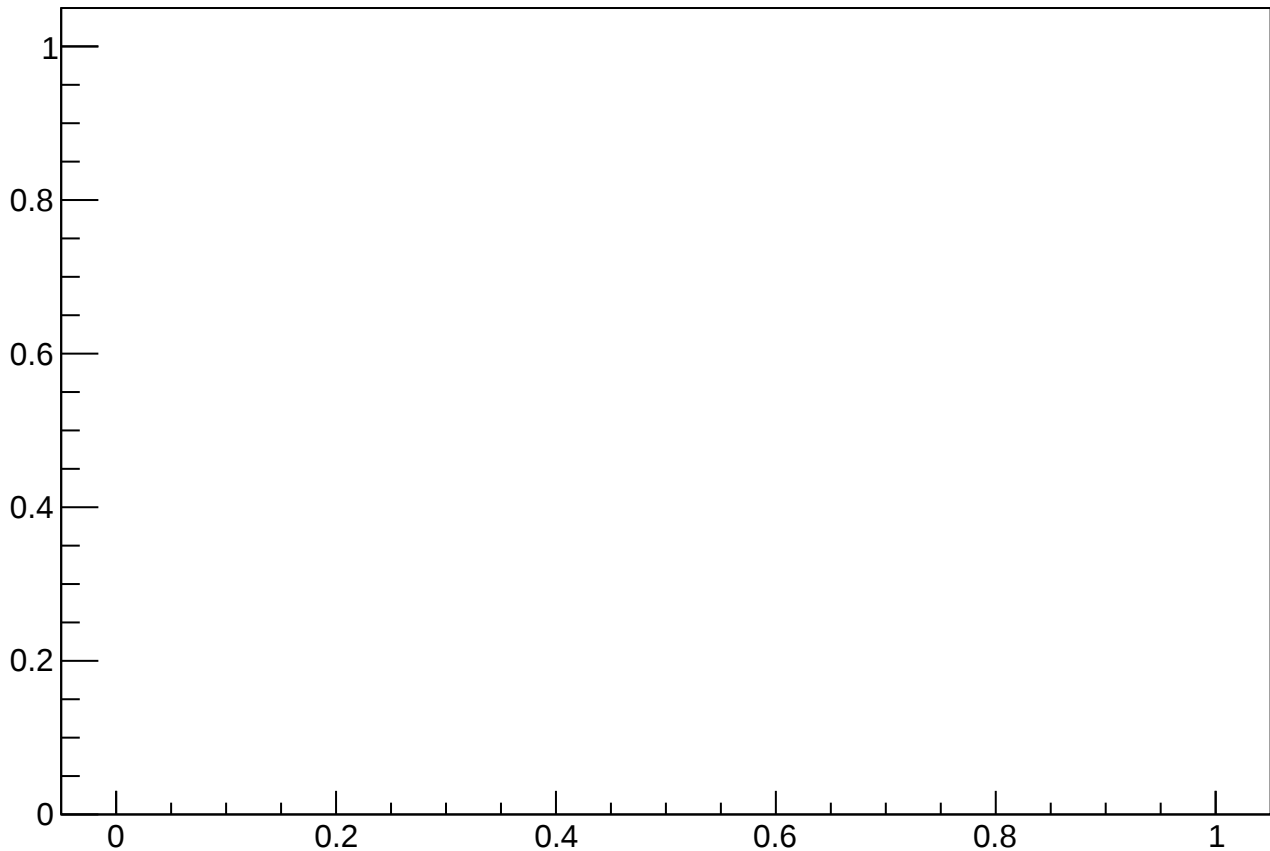
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil4\_err\_mean vs Slug, Sign Corrected



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

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

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

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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl1\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

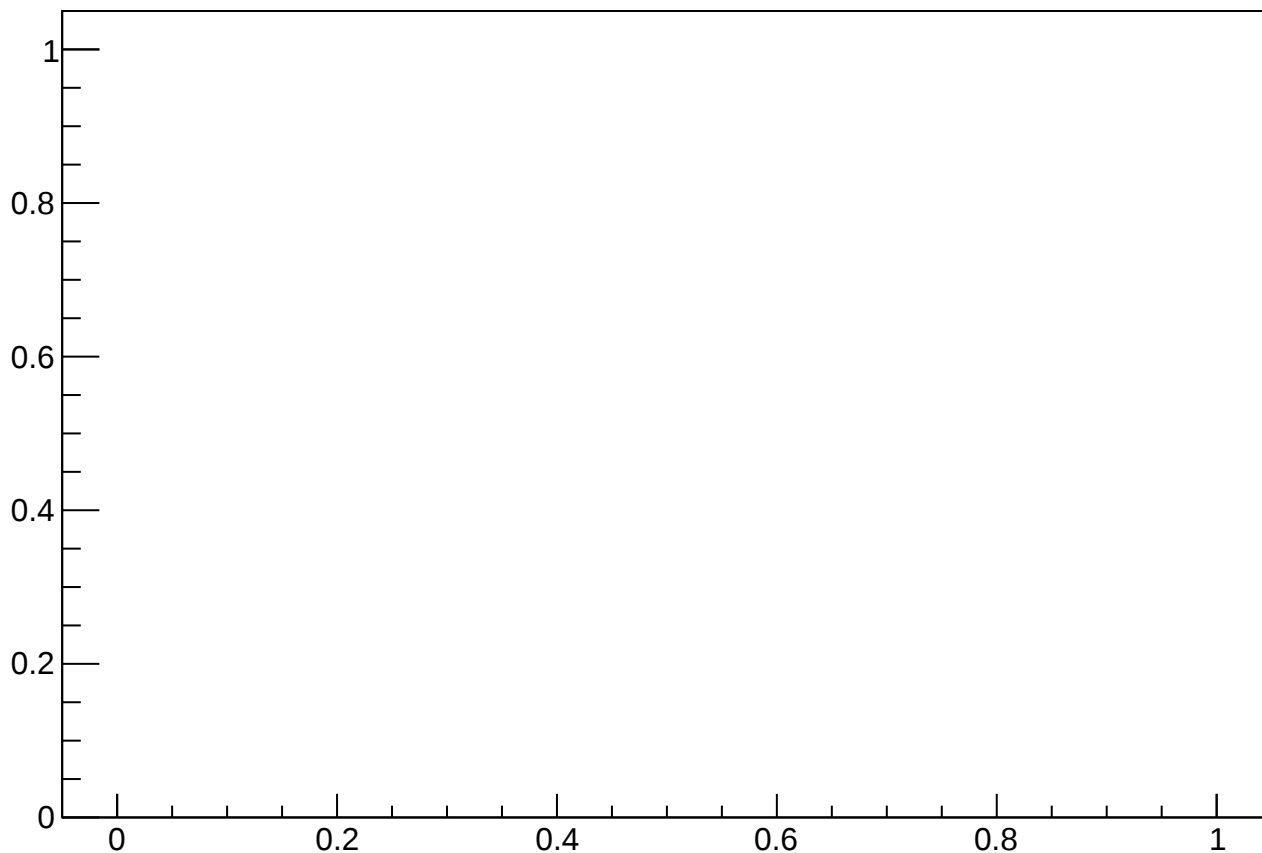
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 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  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr1\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /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\_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     $\chi^2$ /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\_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

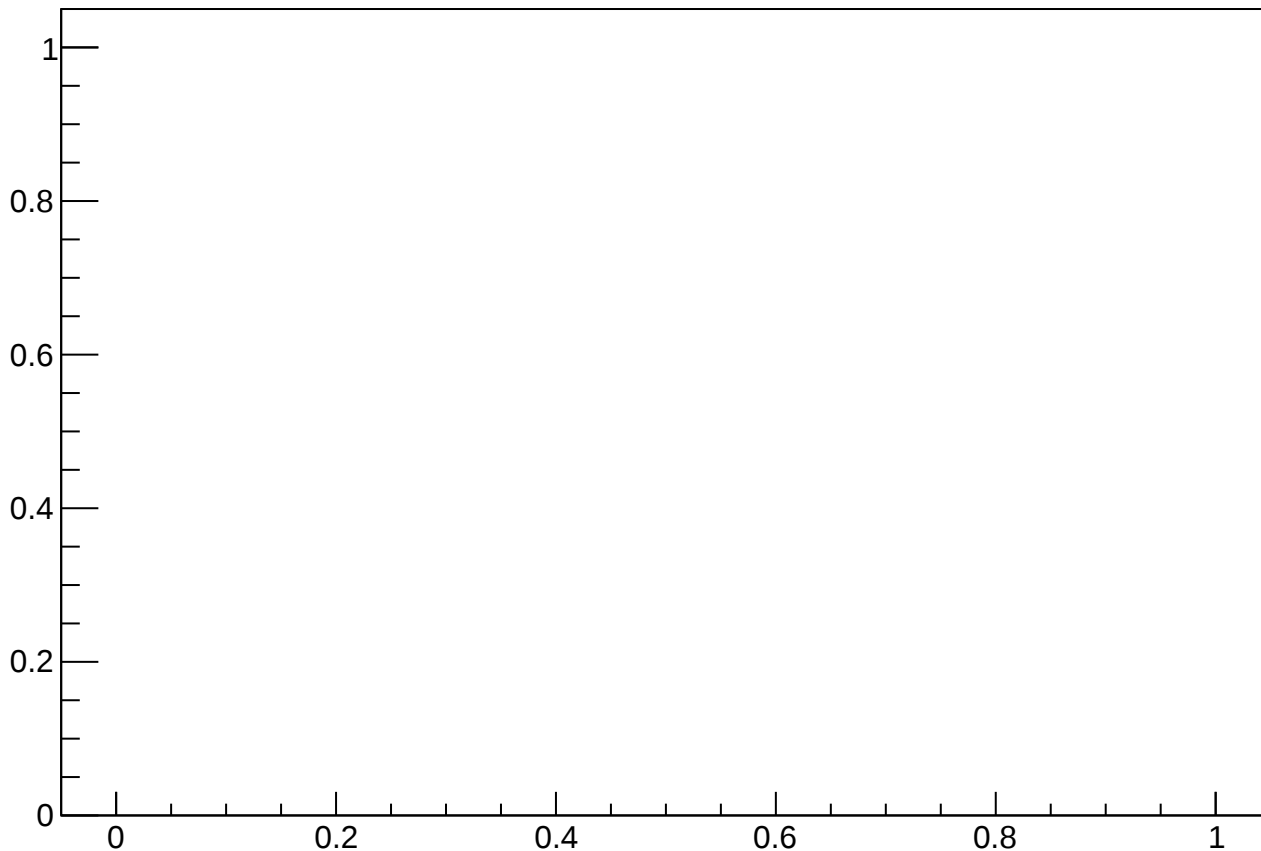
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2$ /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\_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     $\chi^2$ /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\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_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     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

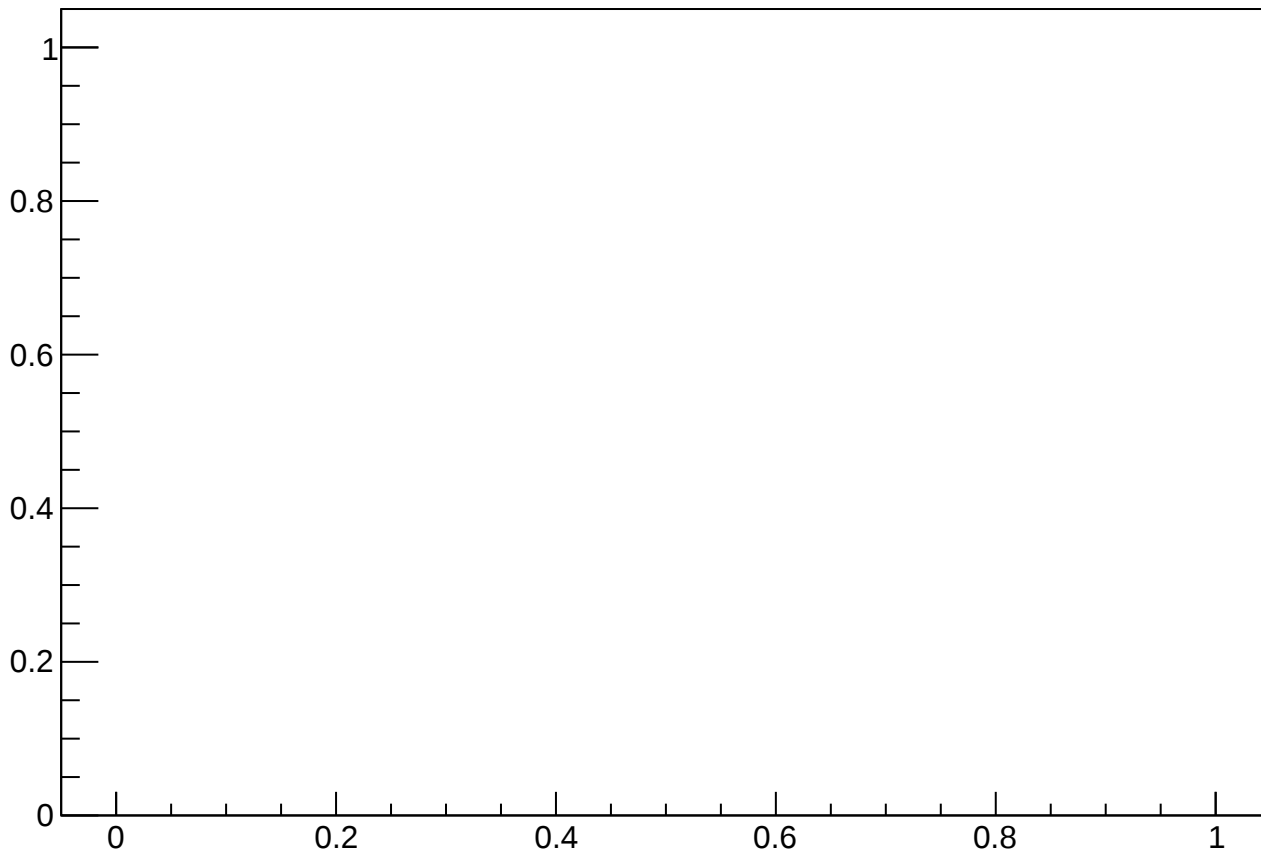
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

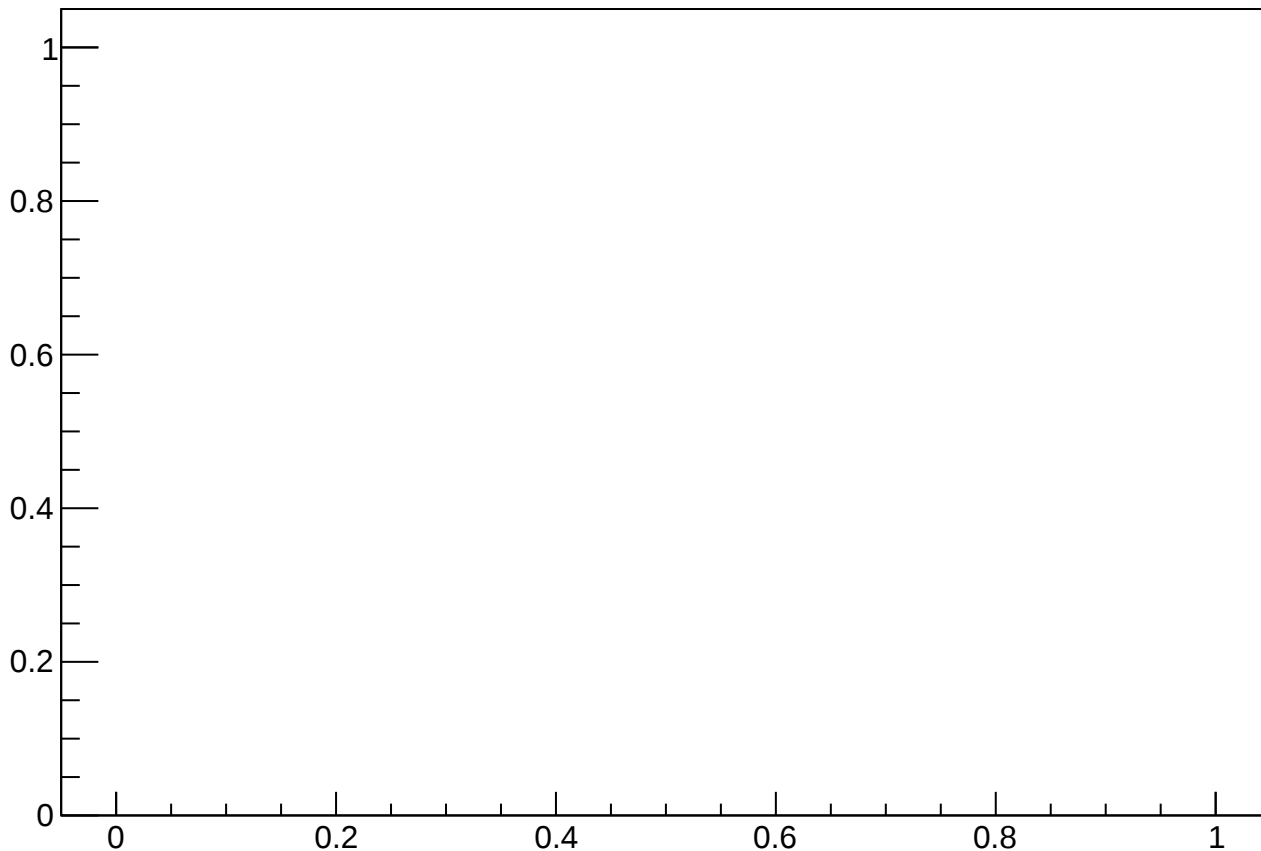
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_11X12X\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

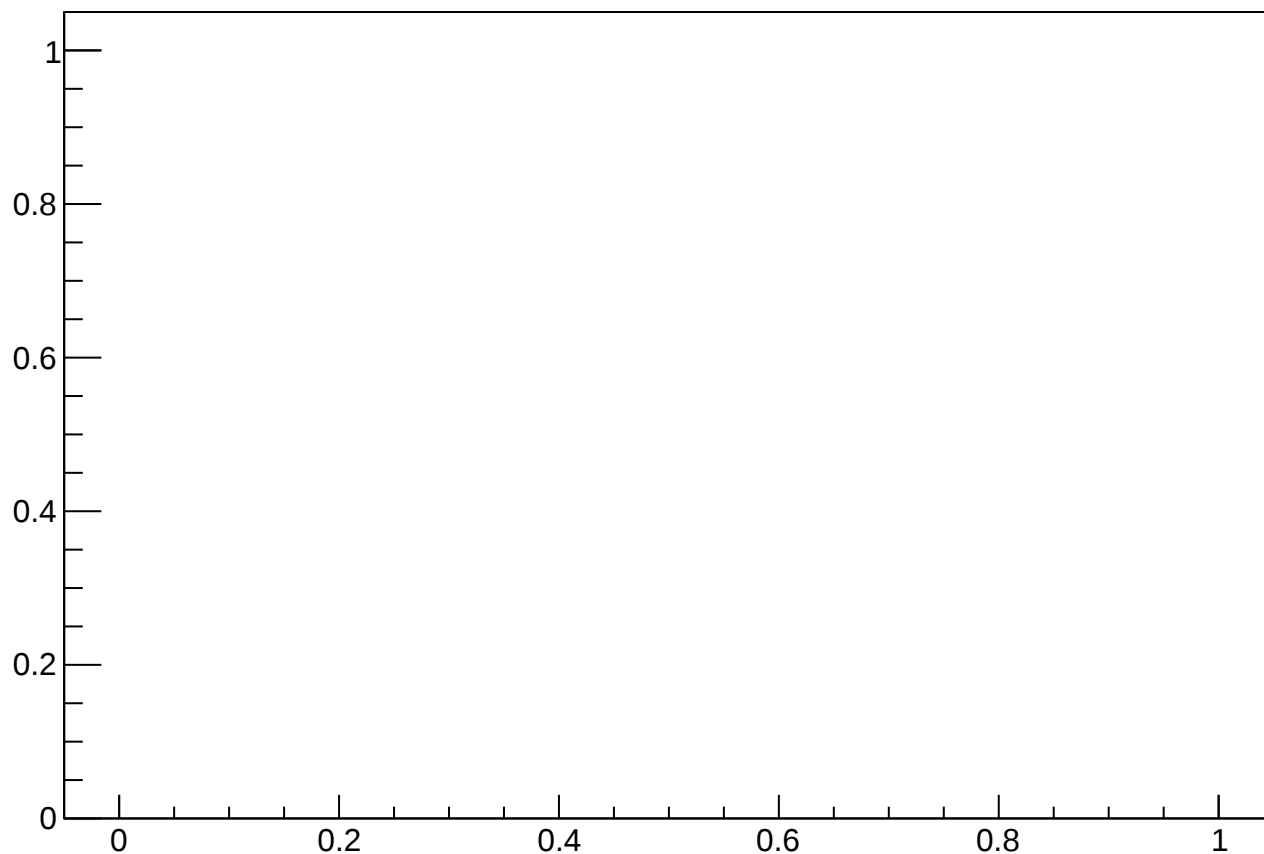
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aY\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aY\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eY\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl1\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

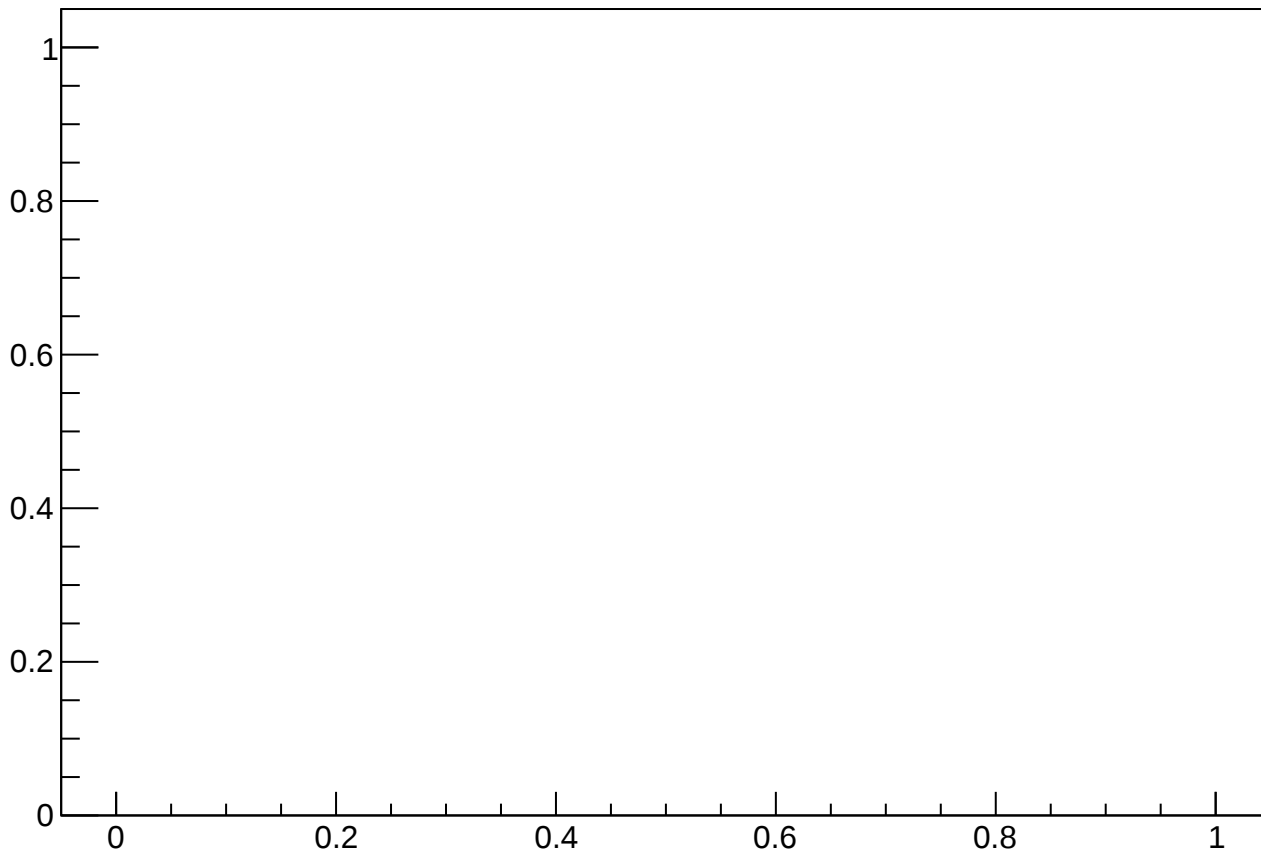
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl2\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

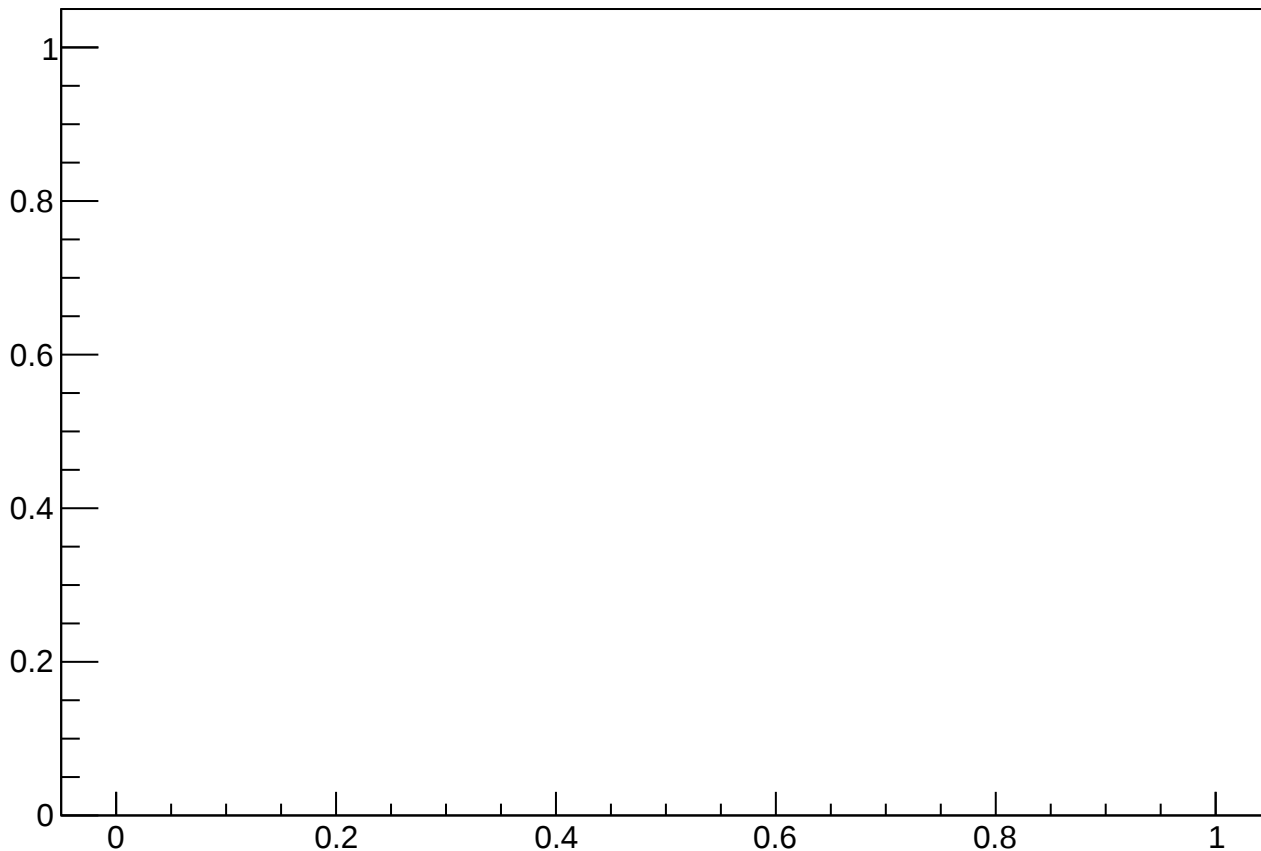
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 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

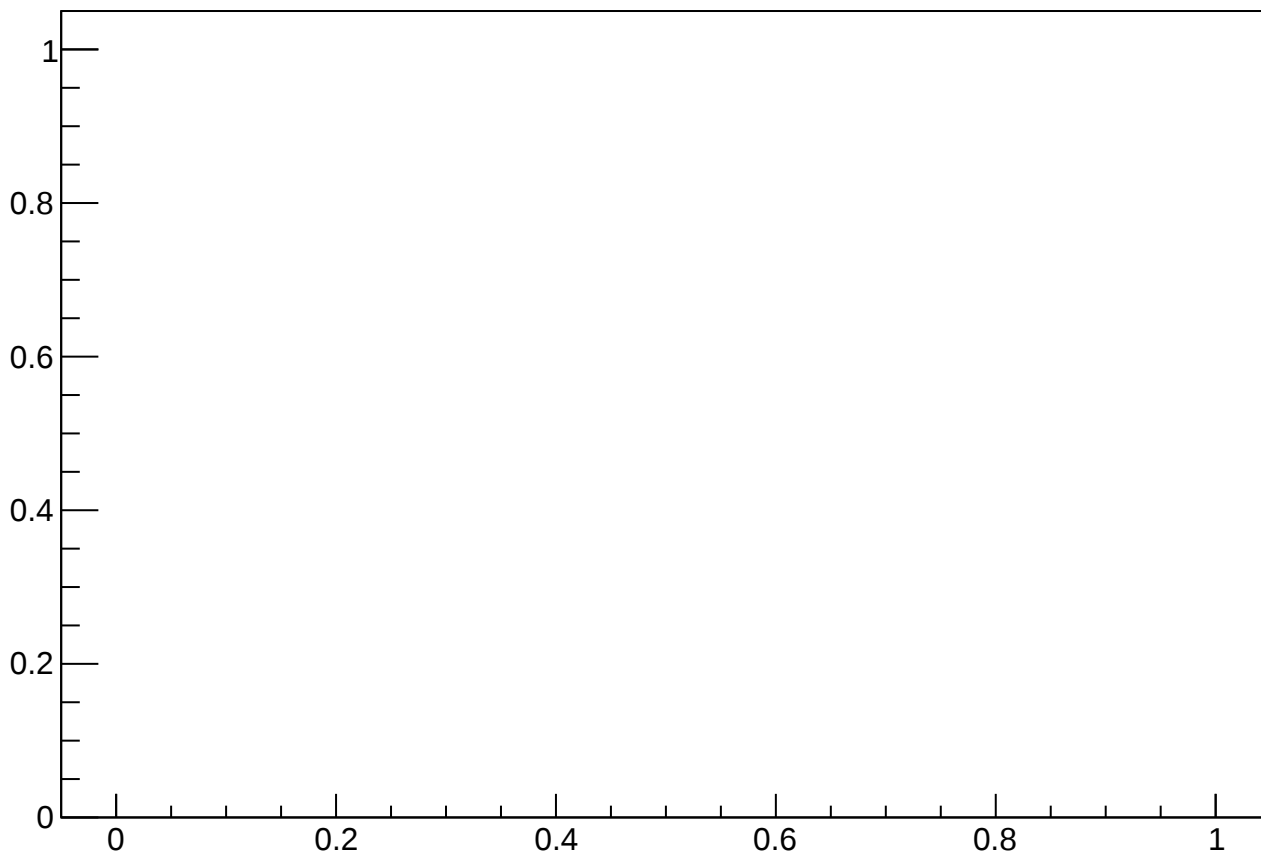
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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     $\chi^2$ /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\_sam5\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil6\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 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

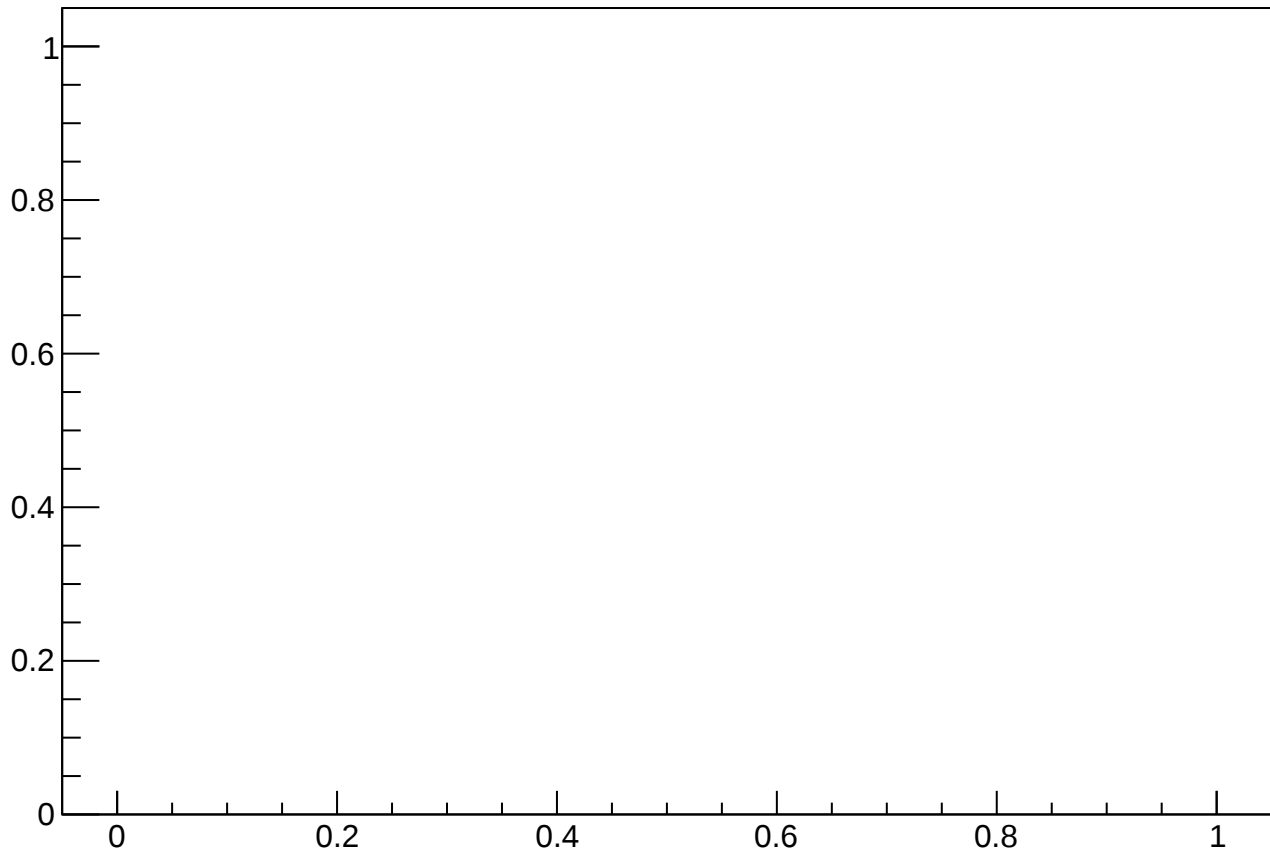
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

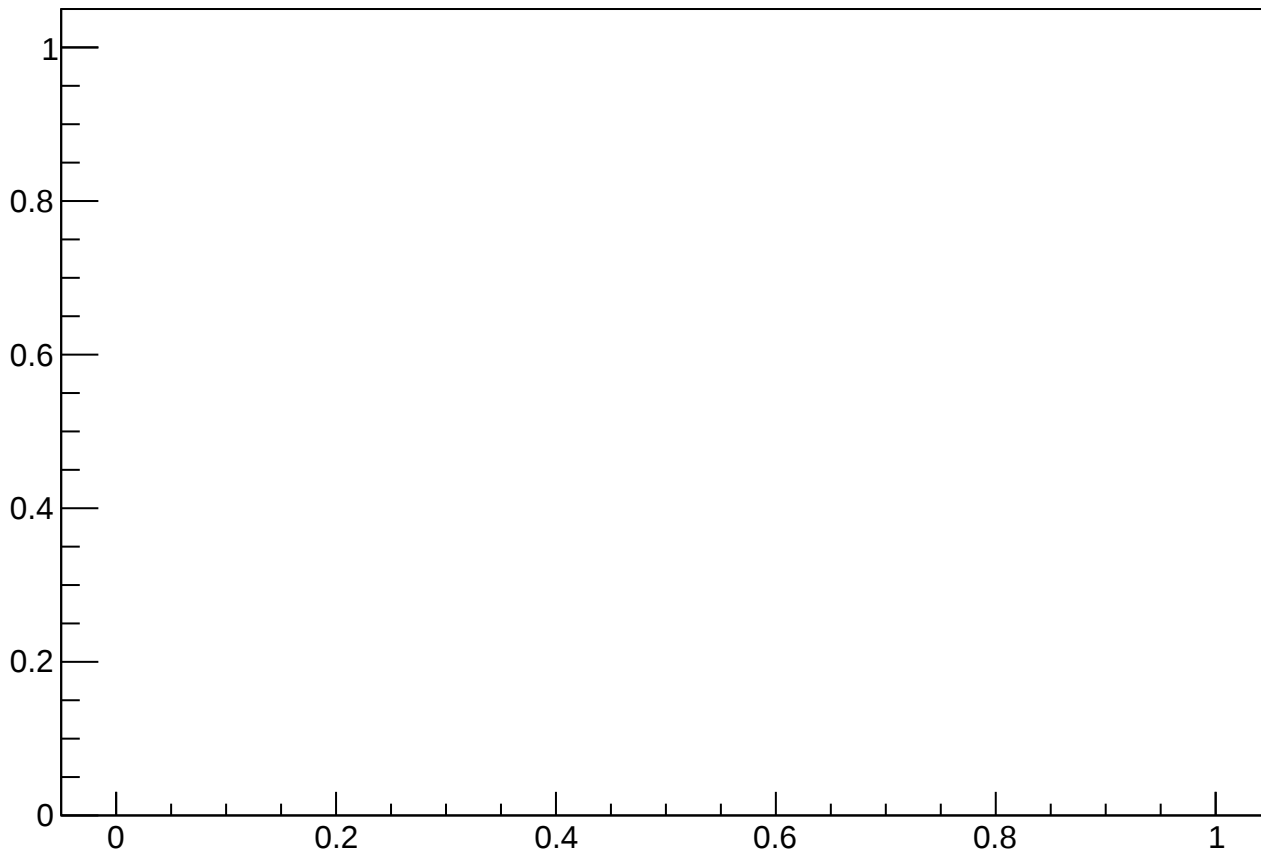
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_flag\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

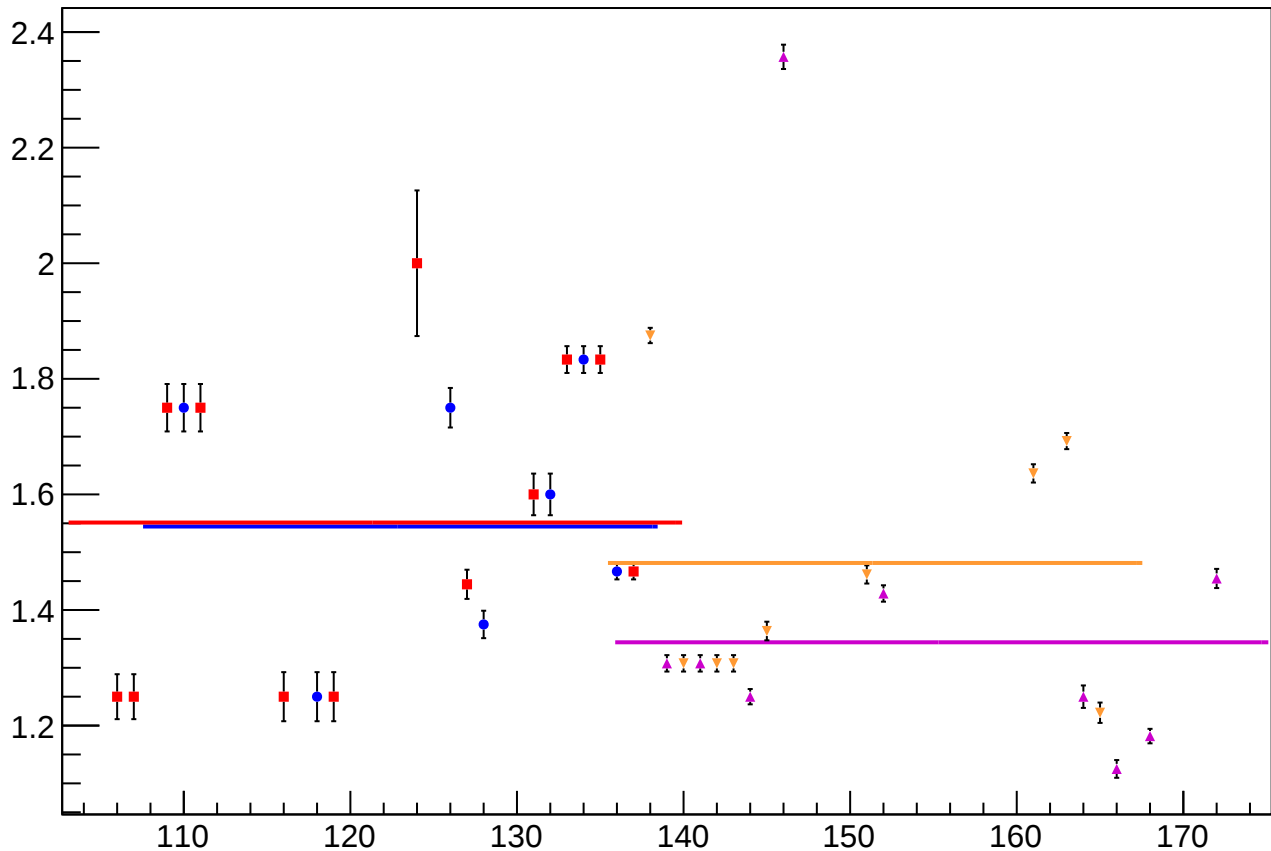
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_segment\_slope vs Slug, Sign Corrected



Right In: 1.544 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 349.7/6

Left Out: 1.481 $\pm$ 0.005  $\chi^2/\text{NDF}$ :1927.1/8

Right Out: 1.551 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 633.6/11

Left In: 1.344 $\pm$ 0.005  $\chi^2/\text{NDF}$ :2852.1/8

Left: 1.414 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 5158.2/17

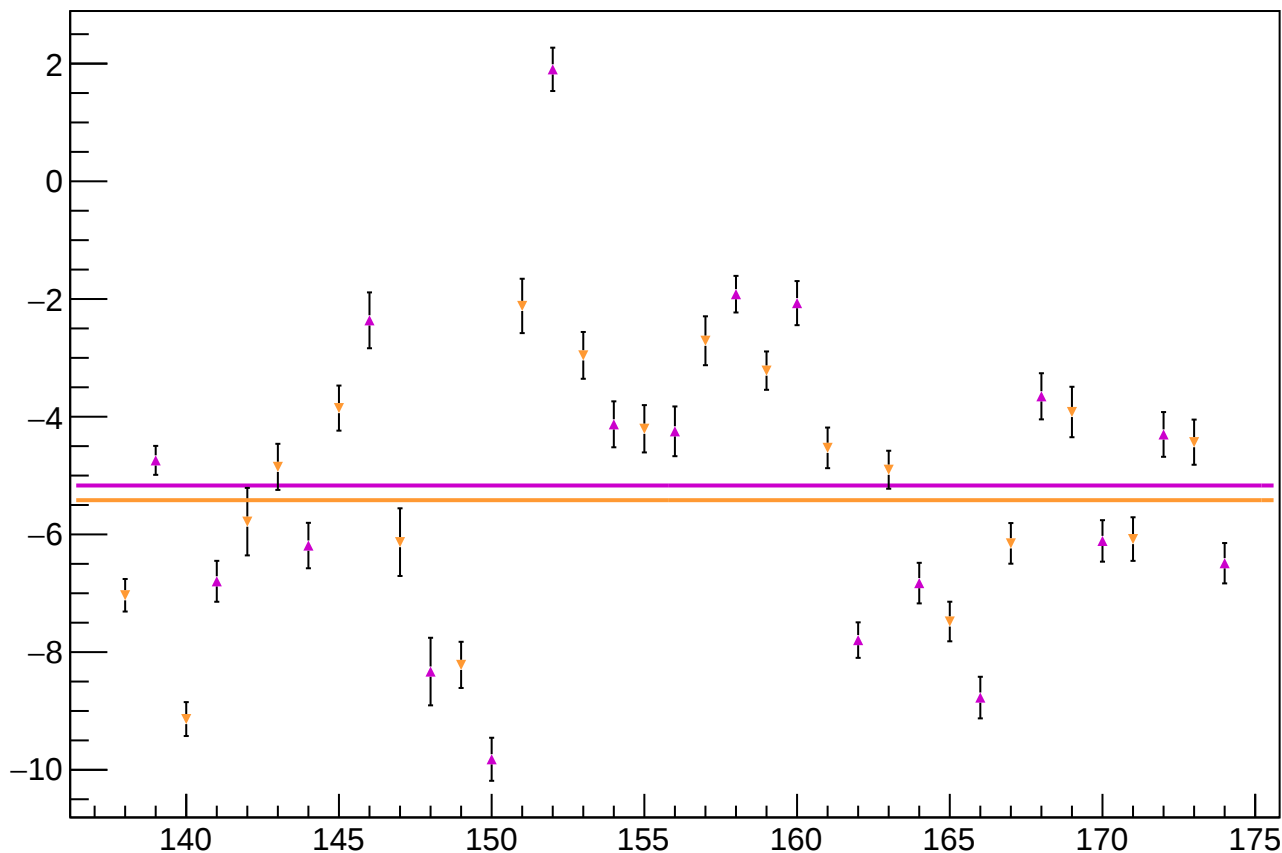
Right: 1.548 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 983.5/18

In: 1.390 $\pm$ 0.004  $\chi^2/\text{NDF}$ :3564.8/15

Out: 1.500 $\pm$ 0.004  $\chi^2/\text{NDF}$ :2614.4/20

All: 1.447 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 6505.9/36

reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5.418 $\pm$ 0.085  $\chi^2$ /NDF:532.3/18

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -5.169 $\pm$ 0.084  $\chi^2$ /NDF:1062.1/17

Left: -5.292 $\pm$ 0.060  $\chi^2$ /NDF: 1598.7/36

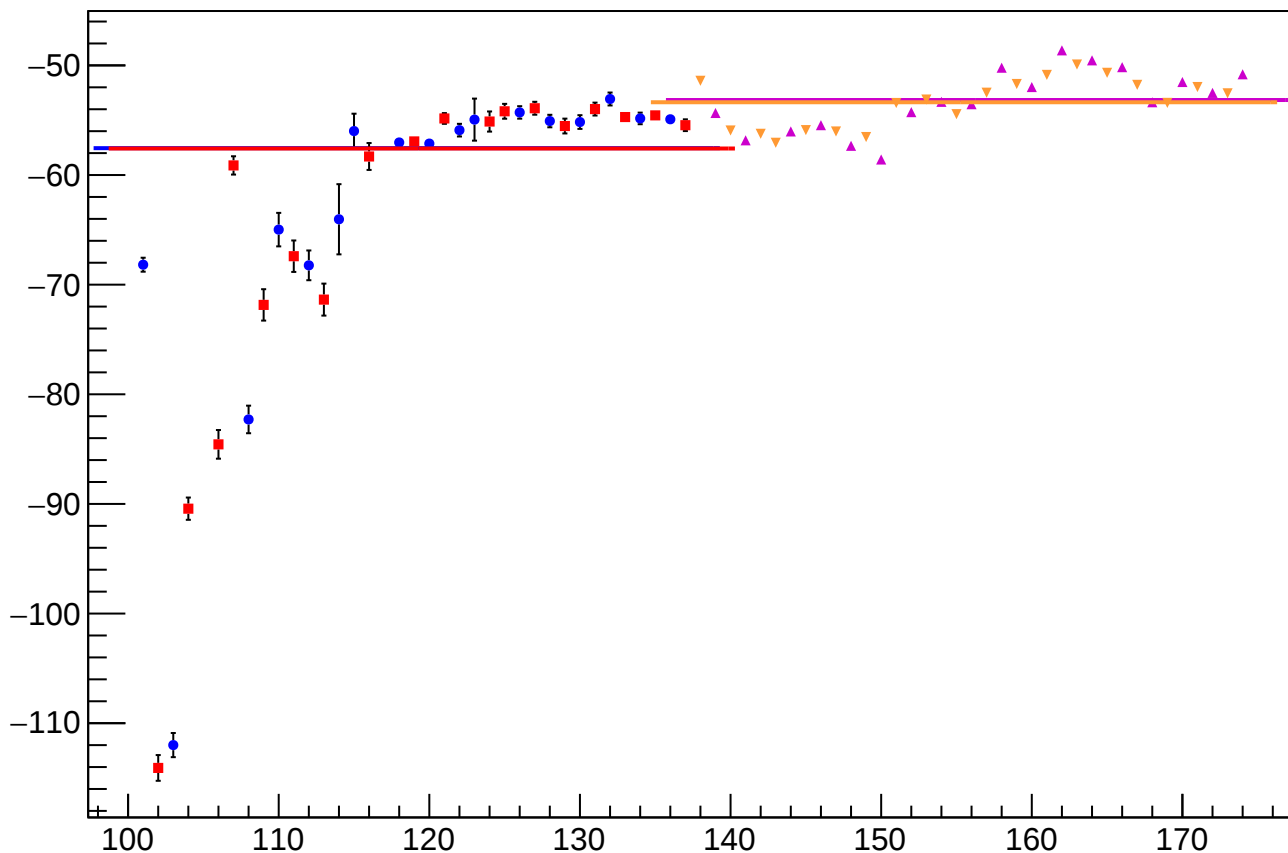
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -5.169 $\pm$ 0.084  $\chi^2$ /NDF:1062.1/17

Out: -5.418 $\pm$ 0.085  $\chi^2$ /NDF:532.3/18

All: -5.292 $\pm$ 0.060  $\chi^2$ /NDF: 1598.7/36

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -57.549 $\pm$ 0.142  $\chi^2$ /NDF: 3460.4/16

Left Out: -53.362 $\pm$ 0.064  $\chi^2$ /NDF:1229.0/18

Right Out: -57.581 $\pm$ 0.143  $\chi^2$ /NDF: 4343.8/17

Left In: -53.158 $\pm$ 0.066  $\chi^2$ /NDF:1990.3/17

Left: -53.263 $\pm$ 0.046  $\chi^2$ /NDF: 3224.3/36

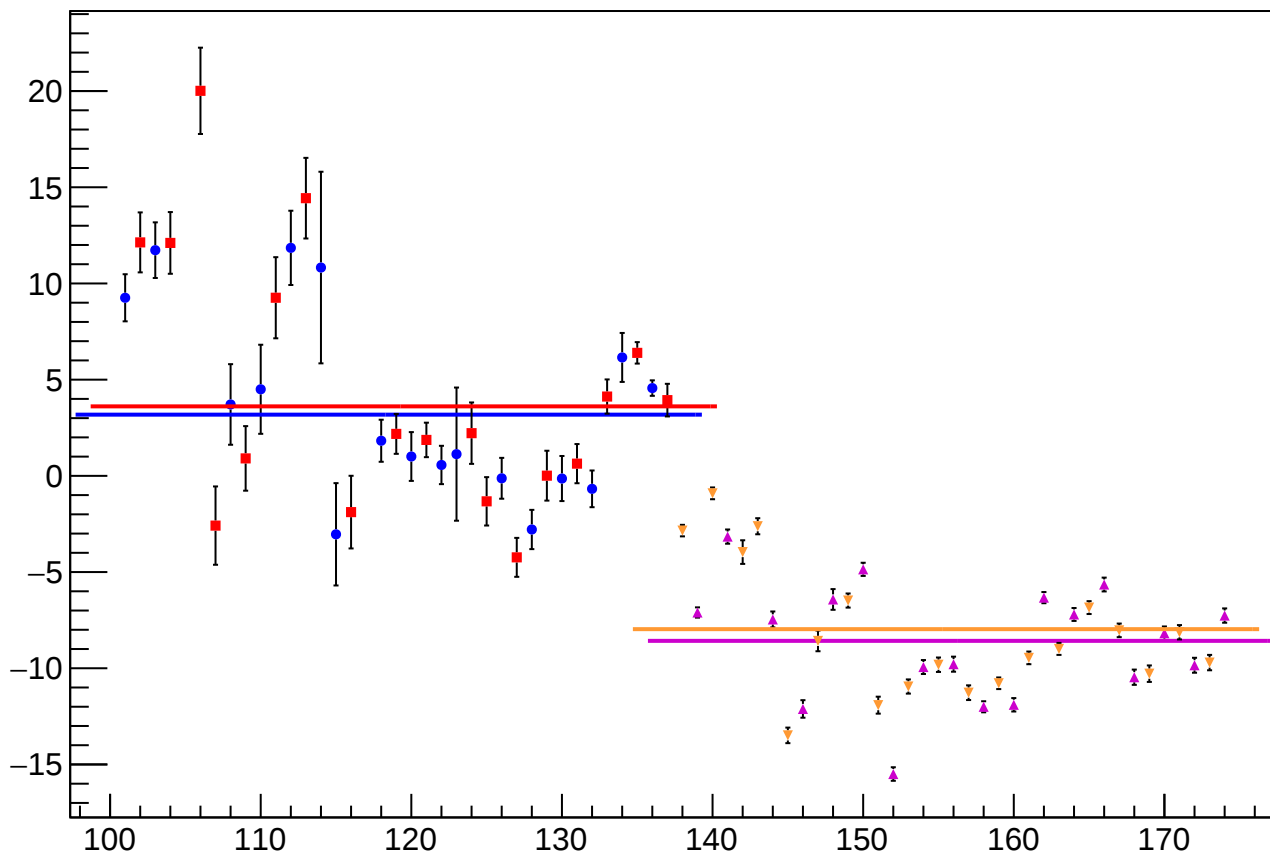
Right: -57.565 $\pm$ 0.101  $\chi^2$ /NDF: 7804.2/34

In: -53.933 $\pm$ 0.059  $\chi^2$ /NDF:6242.8/34

Out: -54.062 $\pm$ 0.058  $\chi^2$ /NDF:6299.4/36

All: -53.999 $\pm$ 0.042  $\chi^2$ /NDF: 12544.6/71

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:  $-7.968 \pm 0.085$   $\chi^2/\text{NDF}$ : 1652.4/18

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}$ : 289.2/17

Left In:  $-8.576 \pm 0.084$   $\chi^2/\text{NDF}$ : 1279.7/17

Left:  $-8.275 \pm 0.059$   $\chi^2/\text{NDF}$ : 2958.3/36

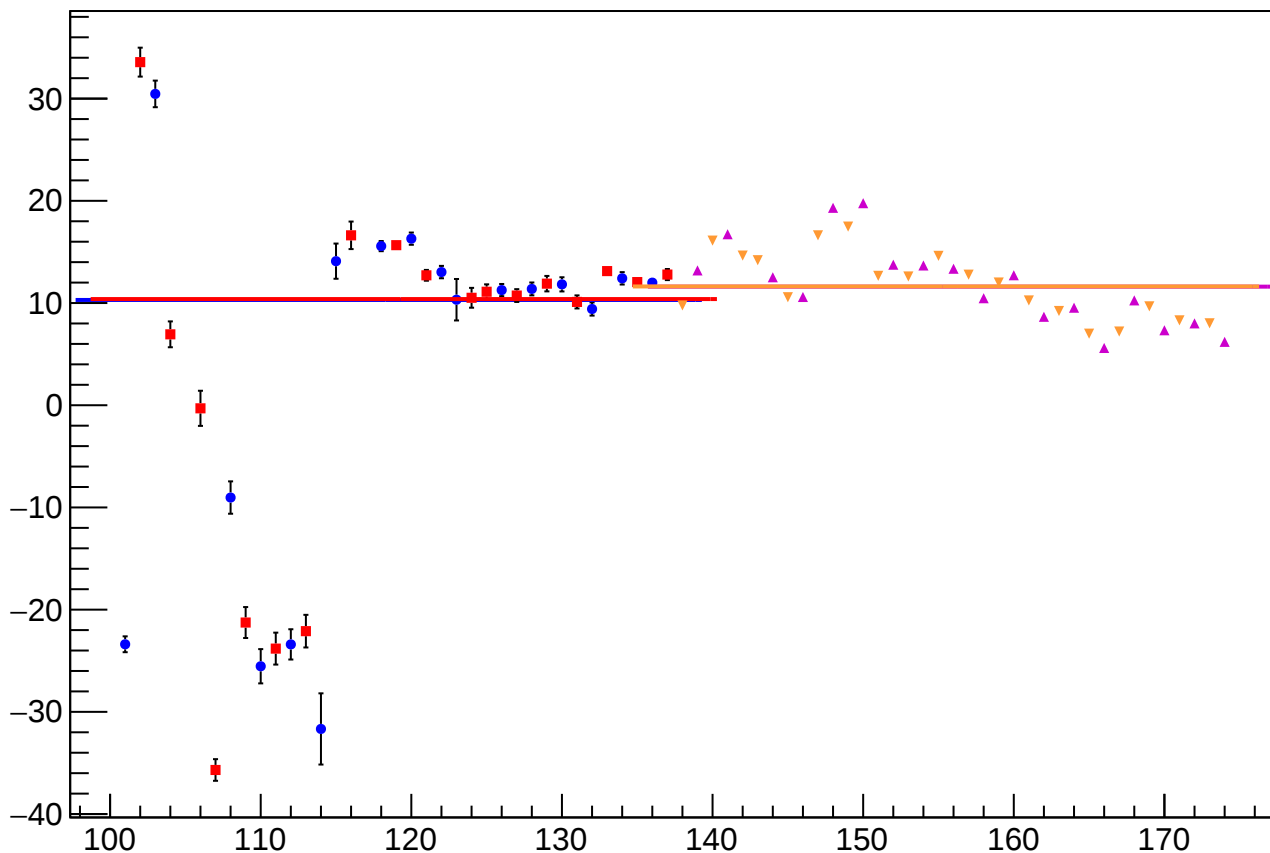
Right:  $3.388 \pm 0.186$   $\chi^2/\text{NDF}$ : 475.8/34

In:  $-7.460 \pm 0.079$   $\chi^2/\text{NDF}$ : 3344.6/34

Out:  $-6.918 \pm 0.081$   $\chi^2/\text{NDF}$ : 3641.0/36

All:  $-7.193 \pm 0.057$   $\chi^2/\text{NDF}$ : 7008.5/71

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.301+/-0.157  $\chi^2/\text{NDF}$ : 3699.4/16

Left Out: 11.622+/-0.072  $\chi^2/\text{NDF}$ : 1834.7/18

Right Out: 10.388+/-0.160  $\chi^2/\text{NDF}$ : 3786.4/17

Left In: 11.603+/-0.073  $\chi^2/\text{NDF}$ : 2789.6/17

Left: 11.613+/-0.051  $\chi^2/\text{NDF}$ : 4624.4/36

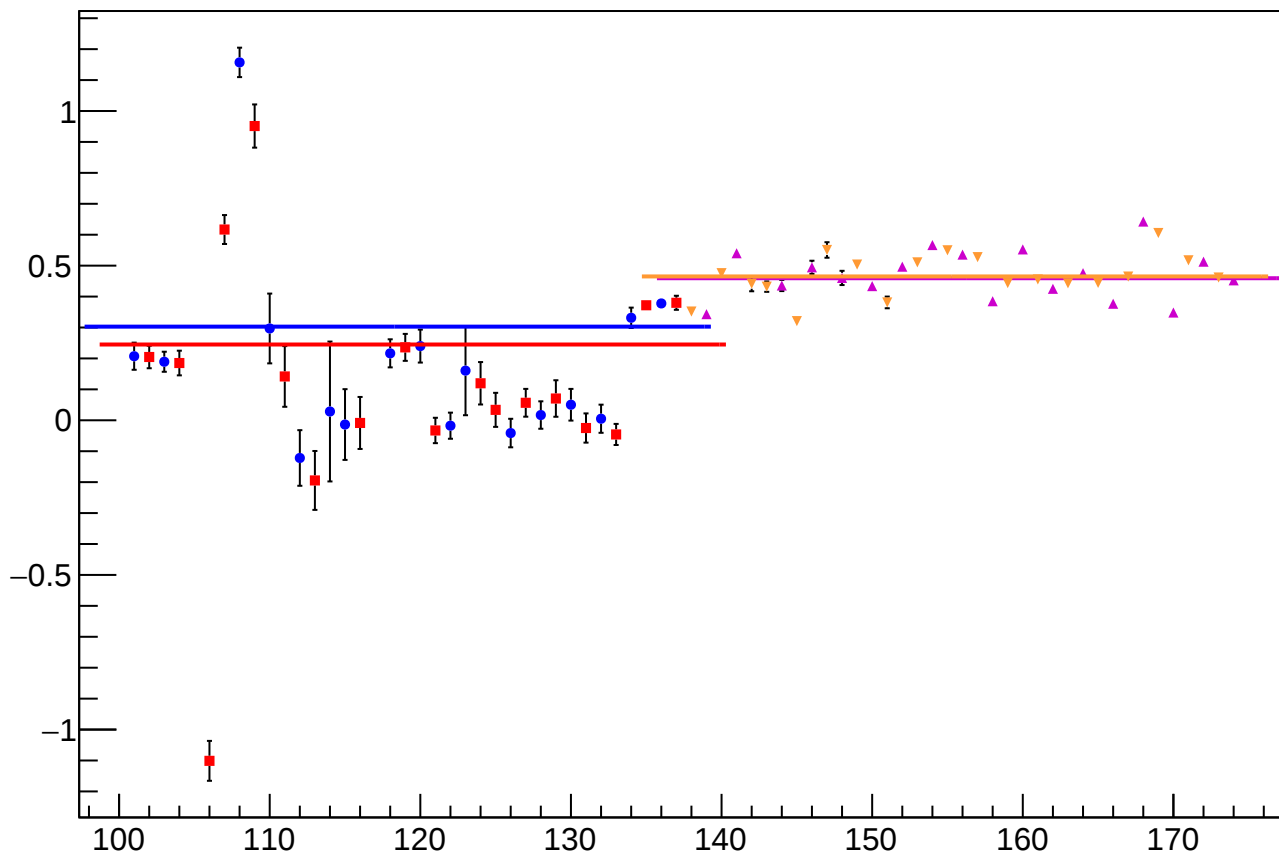
Right: 10.344+/-0.112  $\chi^2/\text{NDF}$ : 7485.9/34

In: 11.370+/-0.066  $\chi^2/\text{NDF}$ : 6545.5/34

Out: 11.413+/-0.066  $\chi^2/\text{NDF}$ : 5670.5/36

All: 11.392+/-0.047  $\chi^2/\text{NDF}$ : 12216.2/71

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:  $0.465 \pm 0.003$   $\chi^2/\text{NDF}$ : 404.9/18

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

Left In:  $0.459 \pm 0.003$   $\chi^2/\text{NDF}$ : 684.7/17

Left:  $0.462 \pm 0.002$   $\chi^2/\text{NDF}$ : 1091.3/36

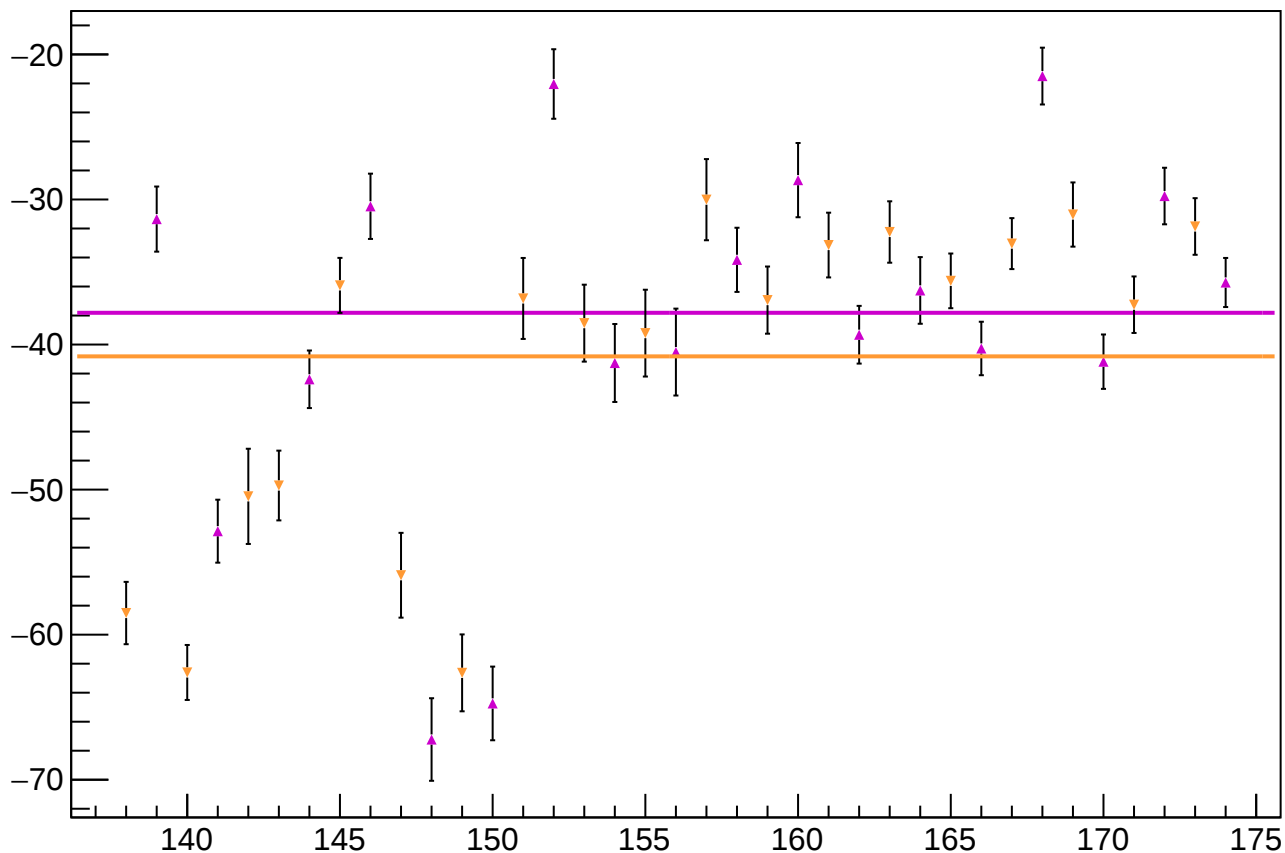
Right:  $0.275 \pm 0.006$   $\chi^2/\text{NDF}$ : 1625.6/34

In:  $0.439 \pm 0.003$   $\chi^2/\text{NDF}$ : 1648.5/34

Out:  $0.437 \pm 0.003$   $\chi^2/\text{NDF}$ : 1942.5/36

All:  $0.438 \pm 0.002$   $\chi^2/\text{NDF}$ : 3591.1/71

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: -40.815+/-0.516  $\chi^2/\text{NDF}$ :443.6/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -37.811+/-0.512  $\chi^2/\text{NDF}$ :447.0/17

Left: -39.301+/-0.363  $\chi^2/\text{NDF}$ : 907.7/36

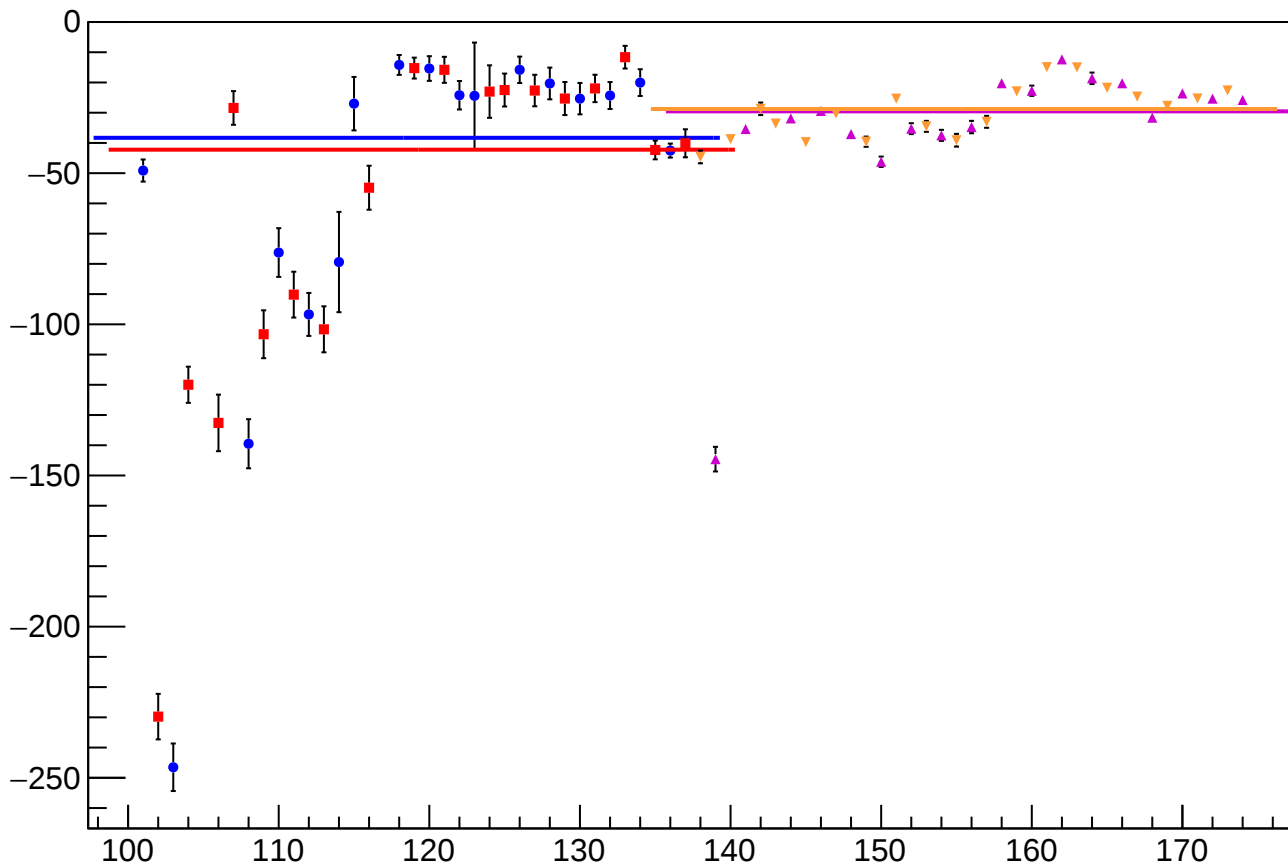
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.811+/-0.512  $\chi^2/\text{NDF}$ :447.0/17

Out: -40.815+/-0.516  $\chi^2/\text{NDF}$ :443.6/18

All: -39.301+/-0.363  $\chi^2/\text{NDF}$ : 907.7/36

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:  $-28.772 \pm 0.378$   $\chi^2/\text{NDF}: 457.4/18$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

Left In:  $-29.548 \pm 0.384$   $\chi^2/\text{NDF}: 1243.7/17$

Left:  $-29.154 \pm 0.269$   $\chi^2/\text{NDF}: 1703.1/36$

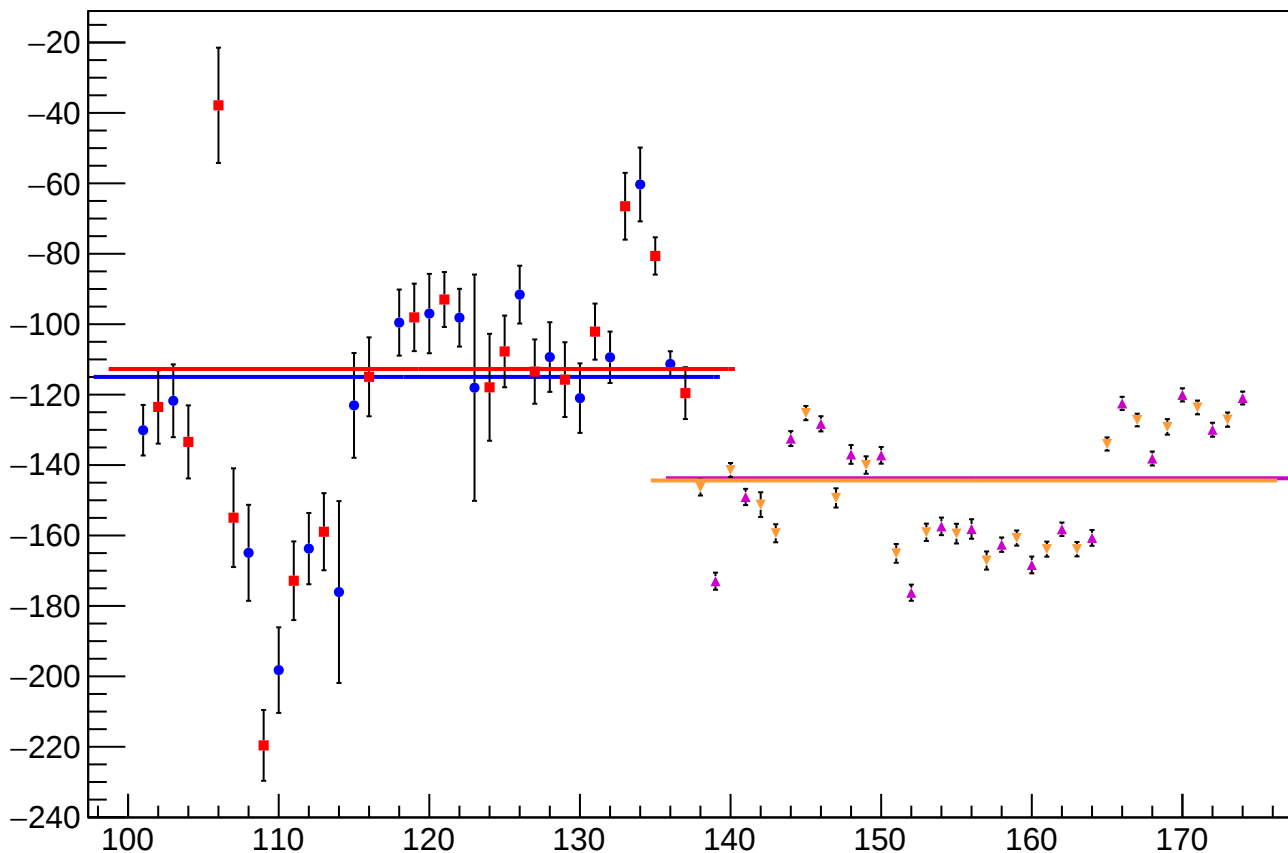
Right:  $-40.148 \pm 0.829$   $\chi^2/\text{NDF}: 2416.5/34$

In:  $-30.442 \pm 0.364$   $\chi^2/\text{NDF}: 2429.6/34$

Out:  $-29.967 \pm 0.360$   $\chi^2/\text{NDF}: 1848.3/36$

All:  $-30.202 \pm 0.256$   $\chi^2/\text{NDF}: 4278.8/71$

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:  $-144.370 \pm 0.515$   $\chi^2/\text{NDF}: 926.3/18$

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}: 267.1/17$

Left In:  $-143.756 \pm 0.509$   $\chi^2/\text{NDF}: 1306.0/17$

Left:  $-144.060 \pm 0.362$   $\chi^2/\text{NDF}: 2233.0/36$

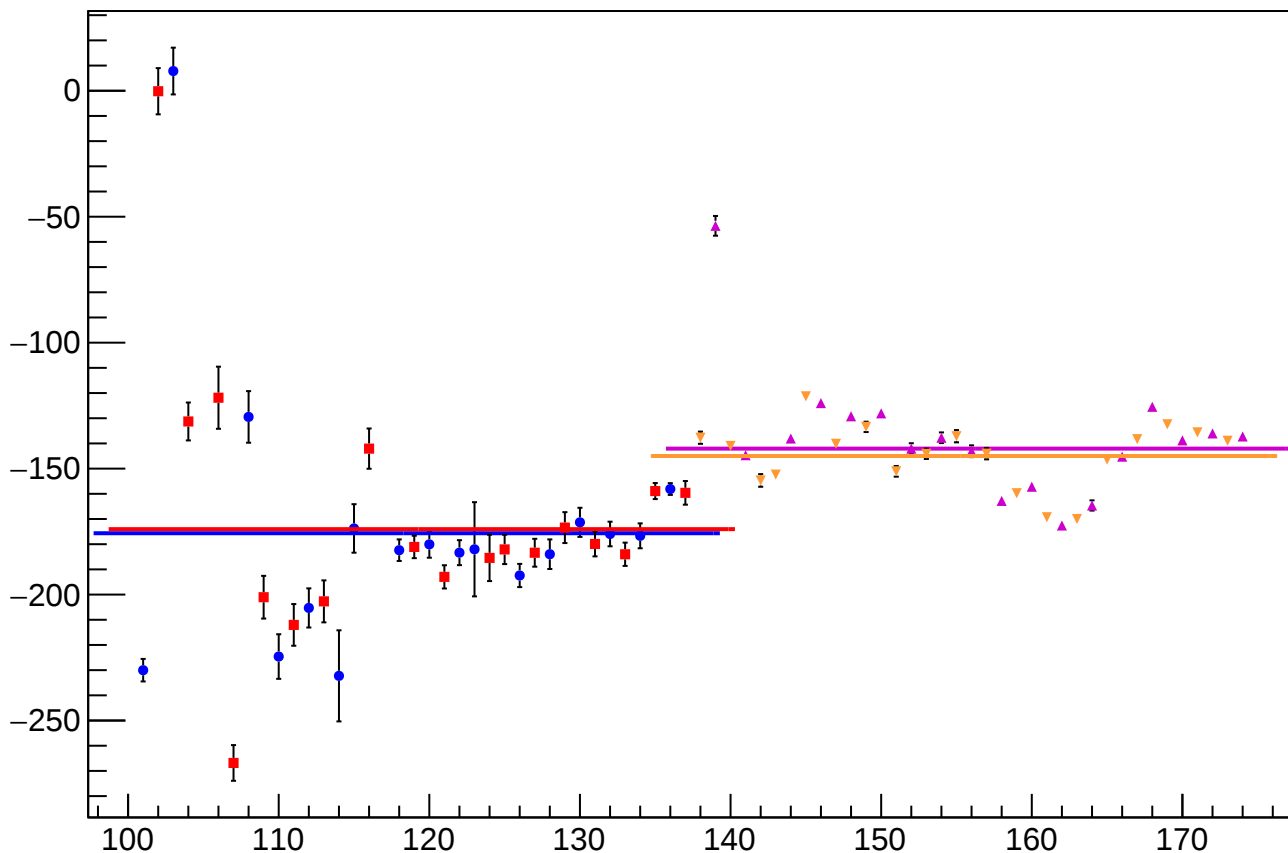
Right:  $-113.912 \pm 1.513$   $\chi^2/\text{NDF}: 409.1/34$

In:  $-142.118 \pm 0.495$   $\chi^2/\text{NDF}: 1629.0/34$

Out:  $-142.739 \pm 0.502$   $\chi^2/\text{NDF}: 1388.0/36$

All:  $-142.424 \pm 0.352$   $\chi^2/\text{NDF}: 3017.8/71$

reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-144.992 \pm 0.431$   $\chi^2/\text{NDF}$ : 903.7/18

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

Left In:  $-142.058 \pm 0.436$   $\chi^2/\text{NDF}$ : 1524.7/17

Left:  $-143.539 \pm 0.306$   $\chi^2/\text{NDF}$ : 2451.3/36

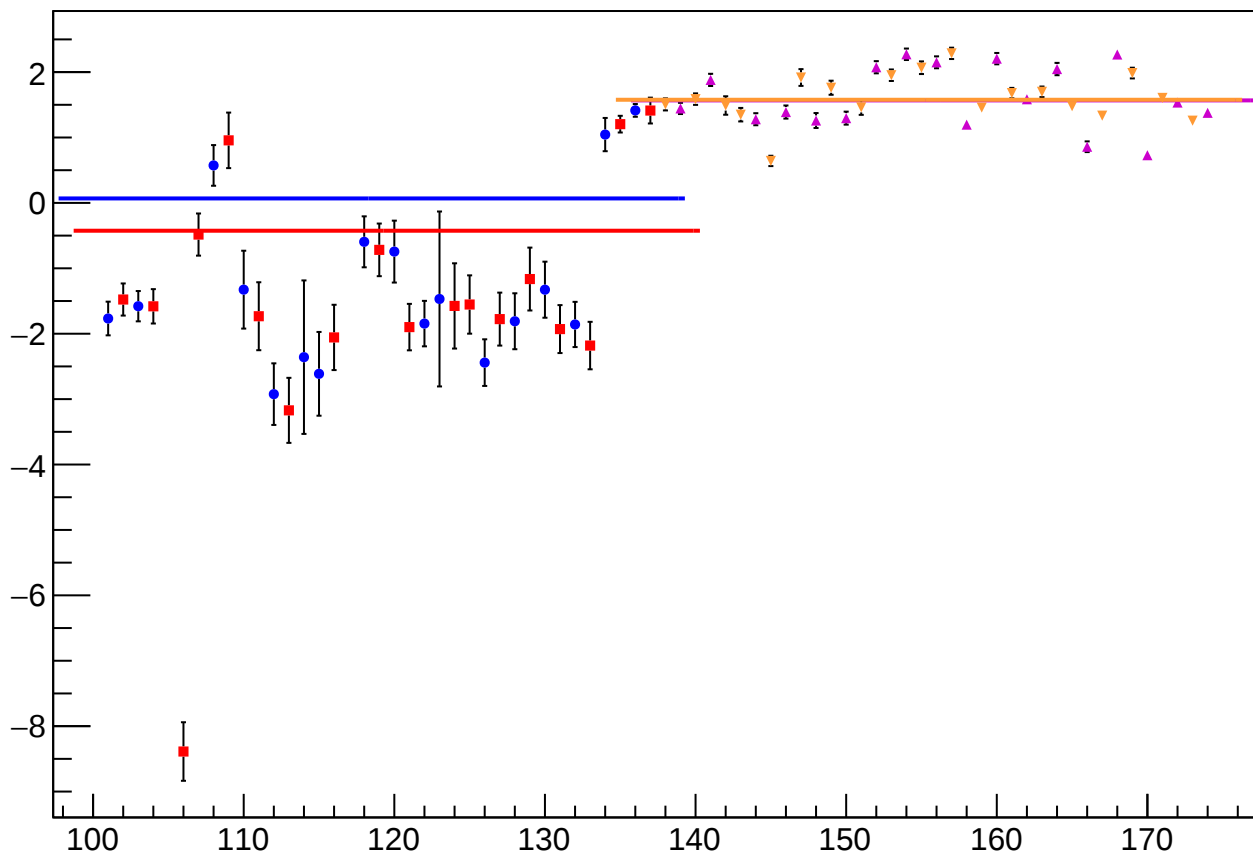
Right:  $-174.891 \pm 0.926$   $\chi^2/\text{NDF}$ : 1396.3/34

In:  $-145.598 \pm 0.412$   $\chi^2/\text{NDF}$ : 2843.6/34

Out:  $-147.662 \pm 0.411$   $\chi^2/\text{NDF}$ : 2023.9/36

All:  $-146.633 \pm 0.291$   $\chi^2/\text{NDF}$ : 4880.1/71

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.068 \pm 0.067$   $\chi^2/\text{NDF}$ : 525.9/16

Left Out:  $1.577 \pm 0.020$   $\chi^2/\text{NDF}$ : 330.2/18

Right Out:  $-0.425 \pm 0.071$   $\chi^2/\text{NDF}$ : 742.9/17

Left In:  $1.567 \pm 0.020$   $\chi^2/\text{NDF}$ : 600.5/17

Left:  $1.572 \pm 0.014$   $\chi^2/\text{NDF}$ : 930.8/36

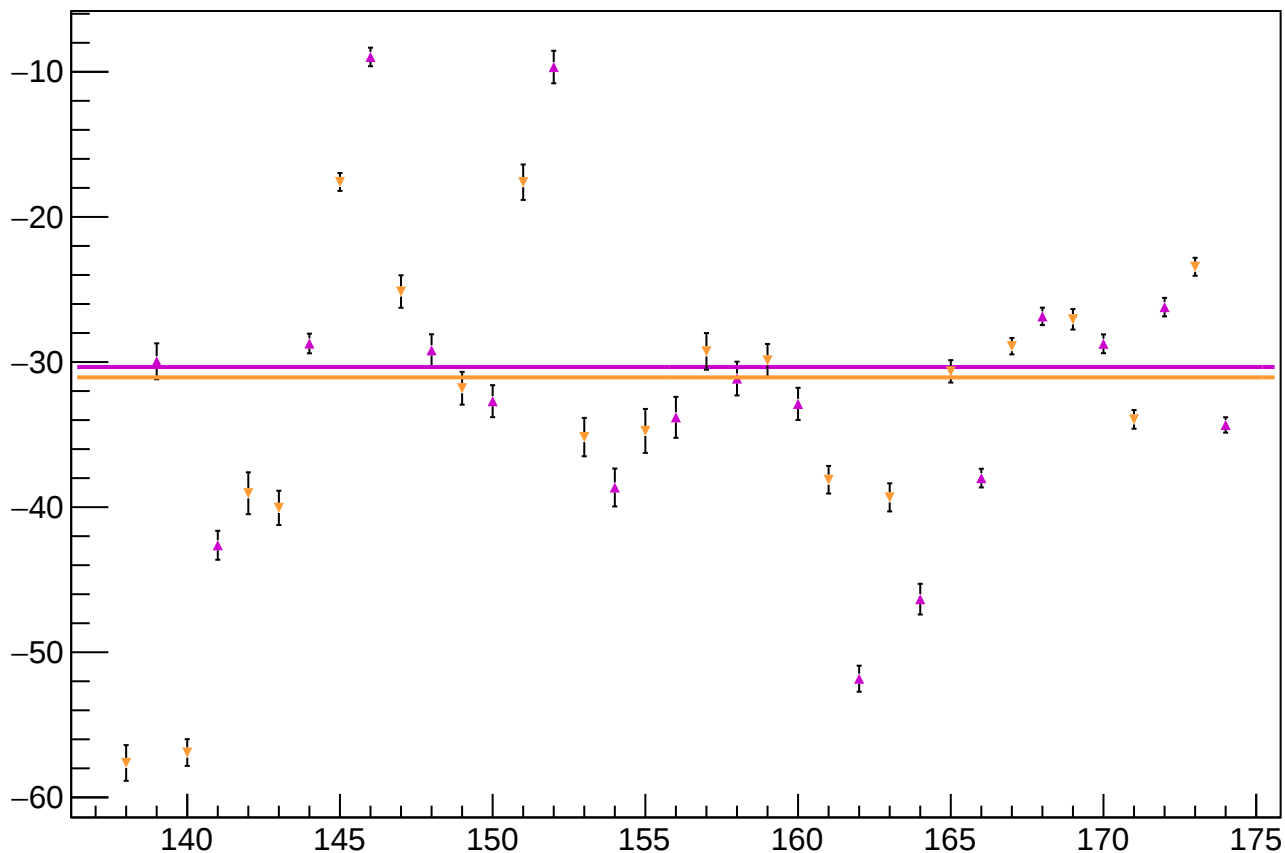
Right:  $-0.163 \pm 0.049$   $\chi^2/\text{NDF}$ : 1294.2/34

In:  $1.448 \pm 0.019$   $\chi^2/\text{NDF}$ : 1587.0/34

Out:  $1.432 \pm 0.019$   $\chi^2/\text{NDF}$ : 1805.6/36

All:  $1.440 \pm 0.013$   $\chi^2/\text{NDF}$ : 3393.0/71

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: -31.057+/-0.203  $\chi^2/\text{NDF}$ :2331.6/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -30.344+/-0.192  $\chi^2/\text{NDF}$ :2756.6/17

Left: -30.681+/-0.139  $\chi^2/\text{NDF}$ : 5094.7/36

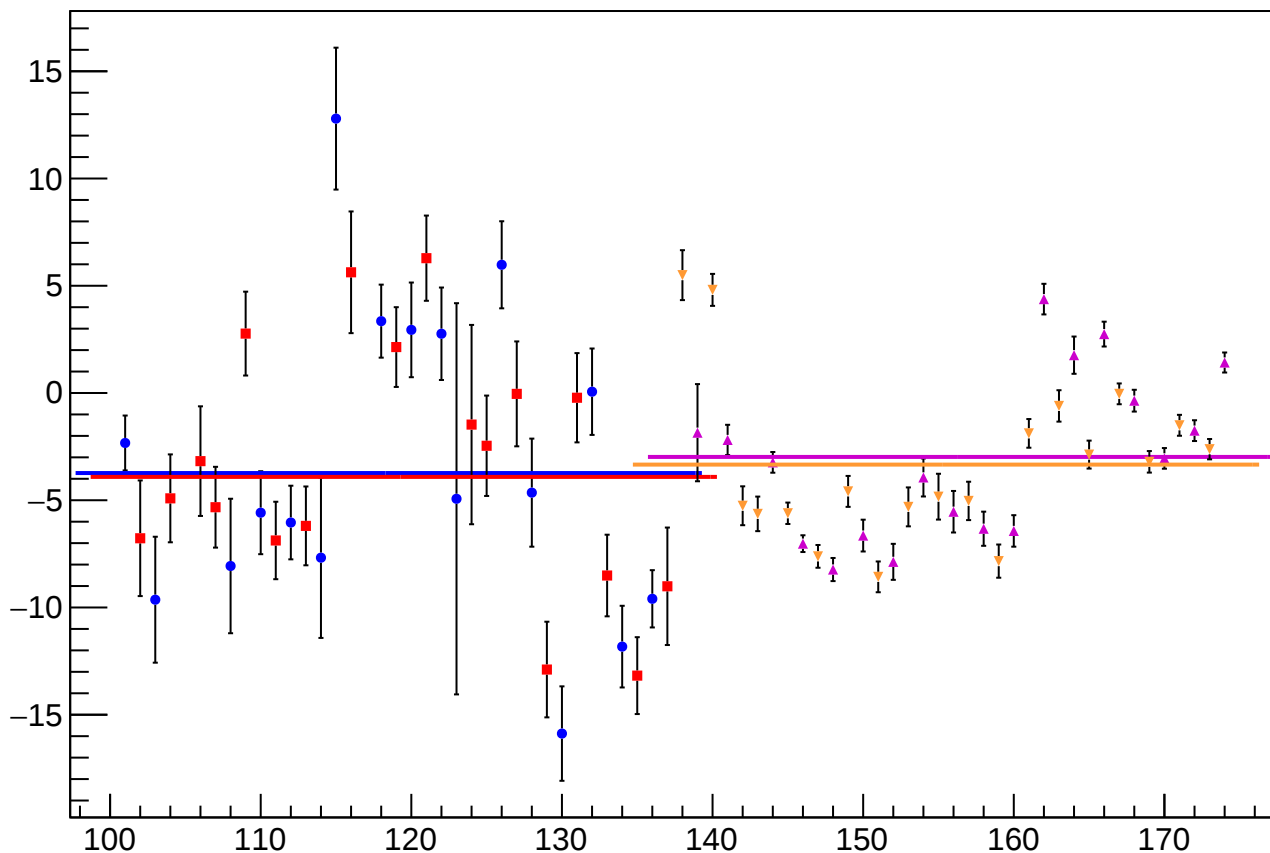
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -30.344+/-0.192  $\chi^2/\text{NDF}$ :2756.6/17

Out: -31.057+/-0.203  $\chi^2/\text{NDF}$ :2331.6/18

All: -30.681+/-0.139  $\chi^2/\text{NDF}$ : 5094.7/36

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:  $-3.339 \pm 0.149$   $\chi^2/\text{NDF}$ : 457.6/18

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.8/17

Left In:  $-2.980 \pm 0.143$   $\chi^2/\text{NDF}$ : 666.2/17

Left:  $-3.152 \pm 0.103$   $\chi^2/\text{NDF}$ : 1126.8/36

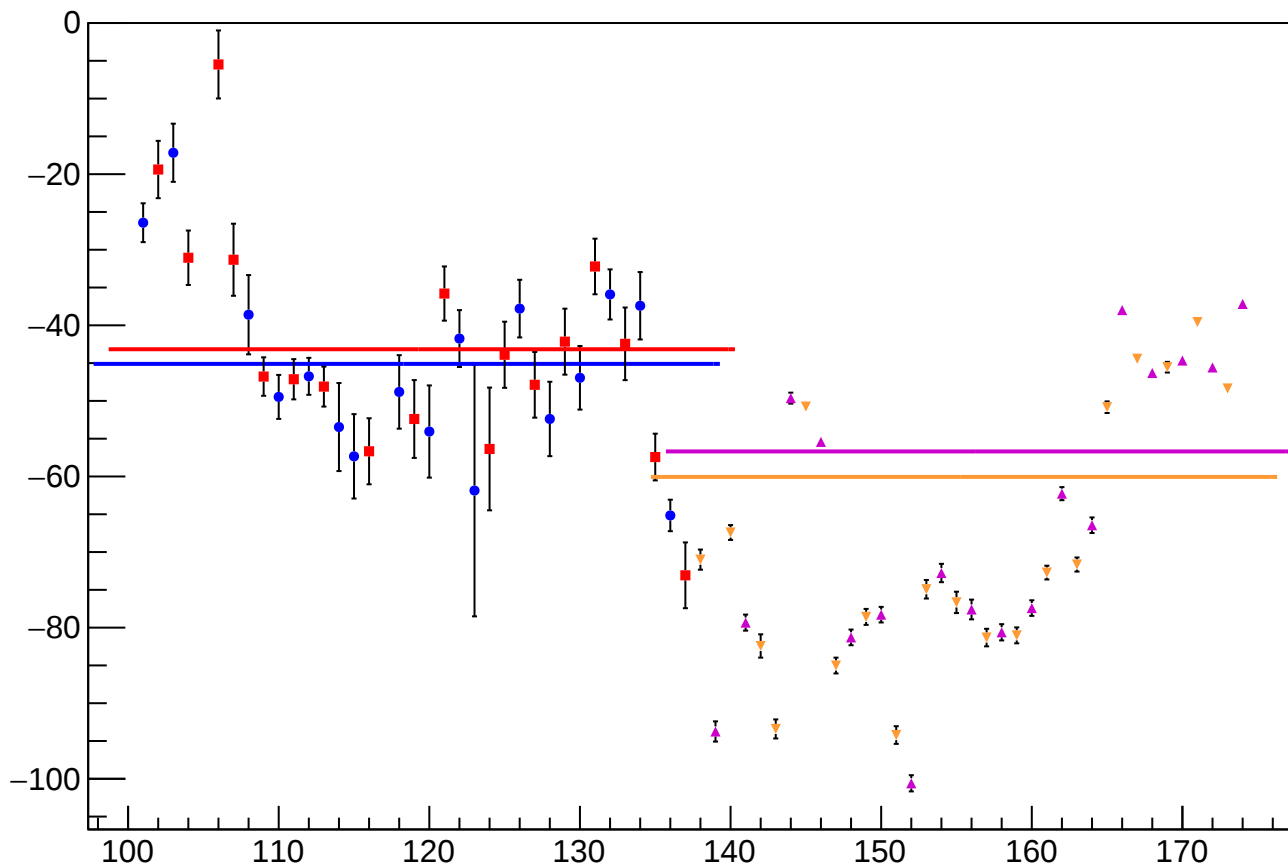
Right:  $-3.820 \pm 0.354$   $\chi^2/\text{NDF}$ : 290.7/34

In:  $-3.038 \pm 0.138$   $\chi^2/\text{NDF}$ : 834.1/34

Out:  $-3.384 \pm 0.143$   $\chi^2/\text{NDF}$ : 583.6/36

All:  $-3.204 \pm 0.099$   $\chi^2/\text{NDF}$ : 1420.7/71

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:  $-60.059 \pm 0.204$   $\chi^2/\text{NDF}$ : 6954.9/18

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

Left In:  $-56.687 \pm 0.193$   $\chi^2/\text{NDF}$ : 8354.5/17

Left:  $-58.283 \pm 0.140$   $\chi^2/\text{NDF}$ : 15454.0/36

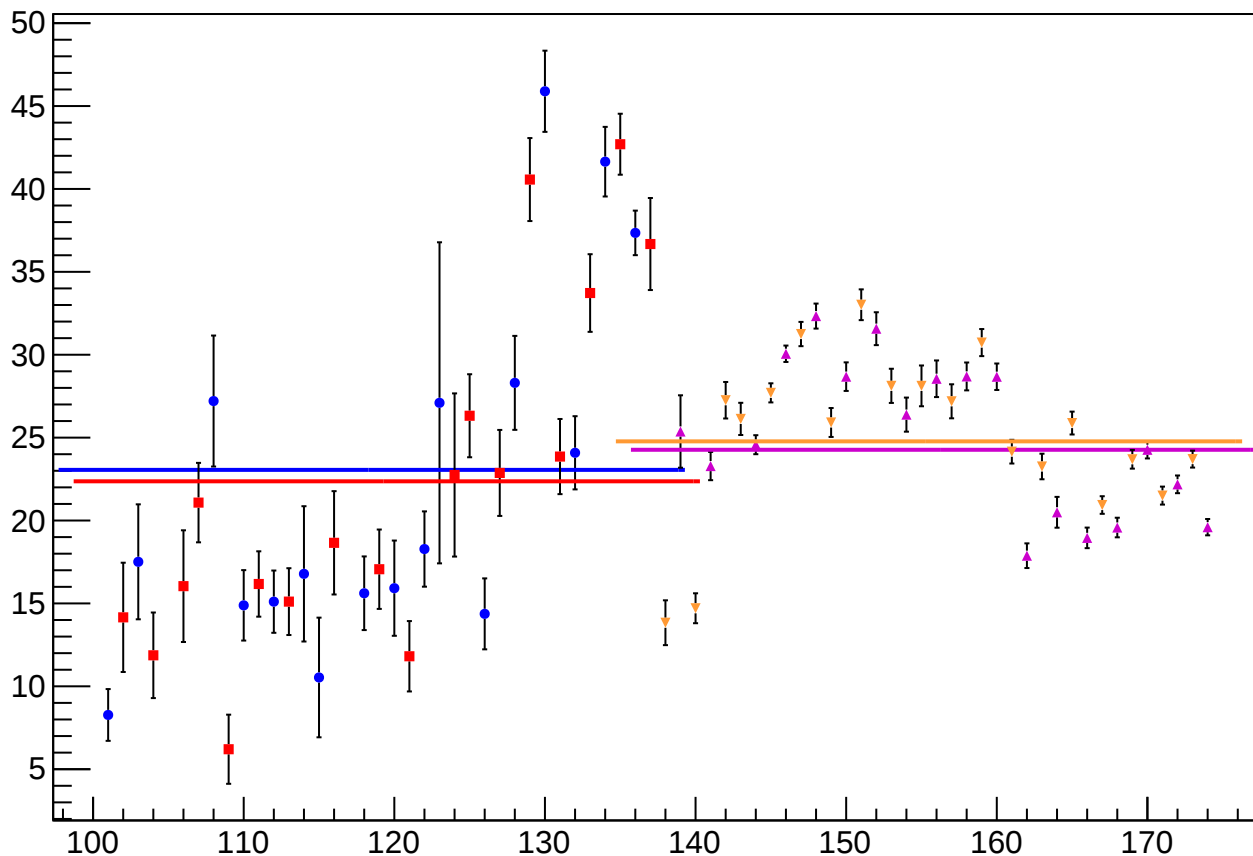
Right:  $-44.131 \pm 0.623$   $\chi^2/\text{NDF}$ : 465.9/34

In:  $-56.159 \pm 0.188$   $\chi^2/\text{NDF}$ : 8749.5/34

Out:  $-59.200 \pm 0.198$   $\chi^2/\text{NDF}$ : 7538.2/36

All:  $-57.602 \pm 0.137$   $\chi^2/\text{NDF}$ : 16411.3/71

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: 24.775 $\pm$ 0.170  $\chi^2$ /NDF: 562.0/18

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

Left In: 24.267 $\pm$ 0.164  $\chi^2$ /NDF: 742.6/17

Left: 24.512 $\pm$ 0.118  $\chi^2$ /NDF: 1309.3/36

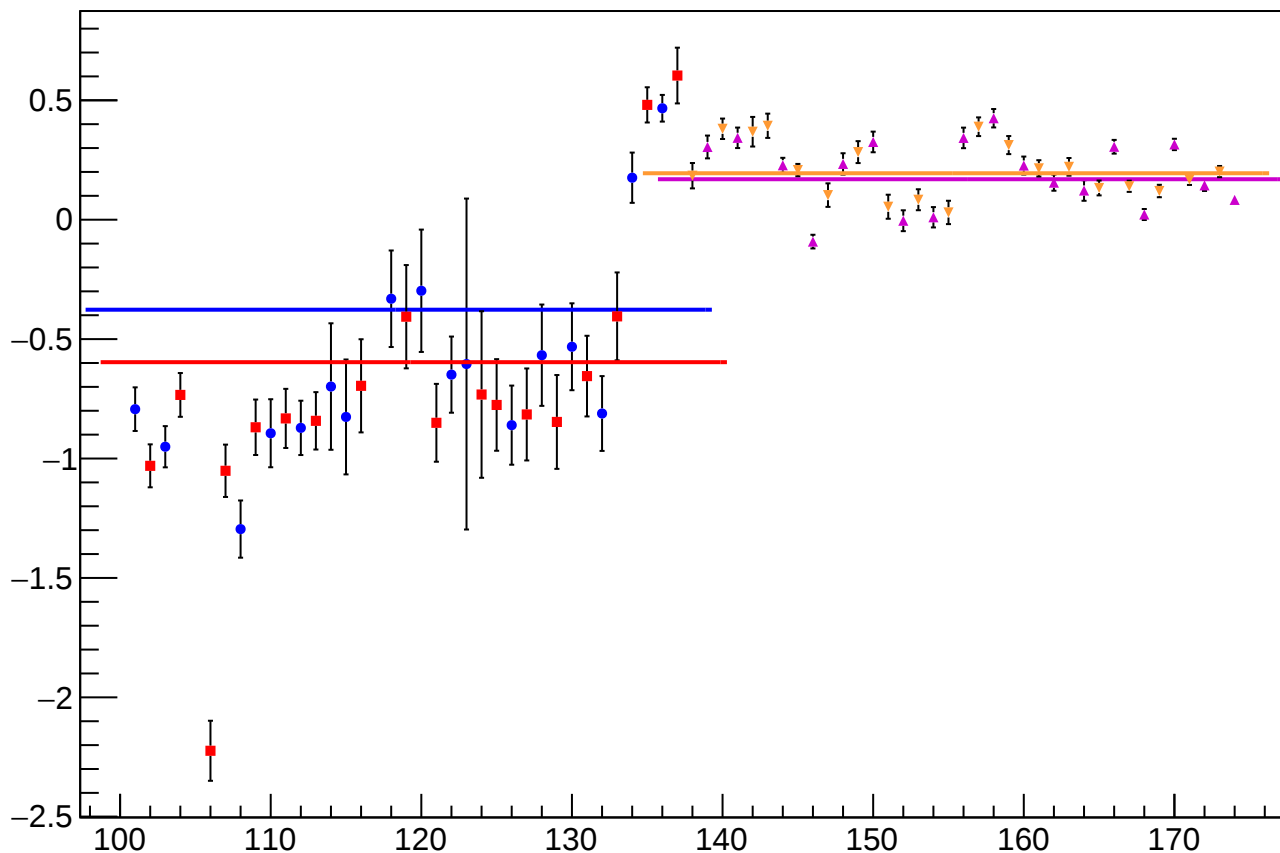
Right: 22.720 $\pm$ 0.399  $\chi^2$ /NDF: 830.6/34

In: 24.171 $\pm$ 0.157  $\chi^2$ /NDF: 1208.1/34

Out: 24.580 $\pm$ 0.163  $\chi^2$ /NDF: 947.1/36

All: 24.368 $\pm$ 0.113  $\chi^2$ /NDF: 2158.4/71

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:  $0.194 \pm 0.008$   $\chi^2/\text{NDF}: 129.2/18$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

Left In:  $0.169 \pm 0.008$   $\chi^2/\text{NDF}: 338.8/17$

Left:  $0.181 \pm 0.005$   $\chi^2/\text{NDF}: 473.4/36$

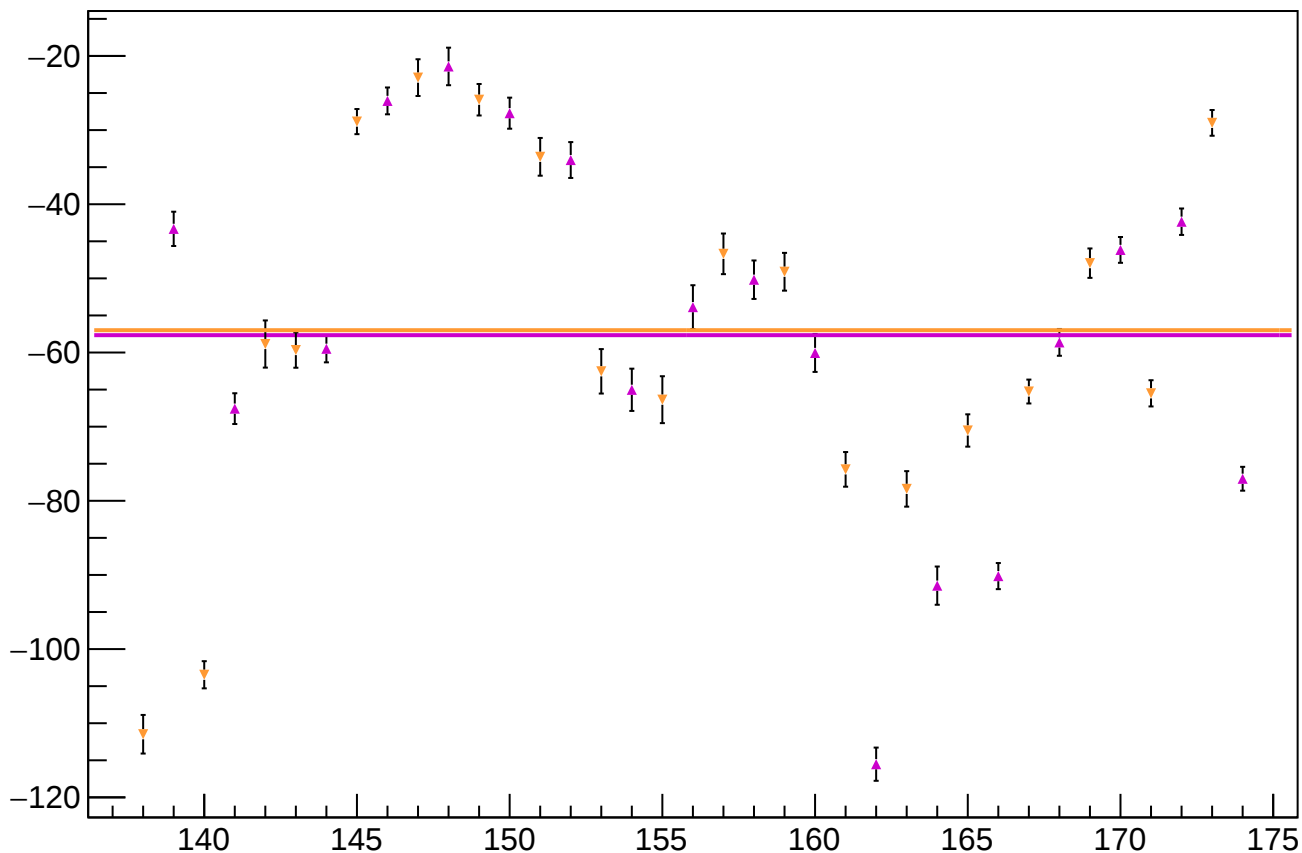
Right:  $-0.486 \pm 0.021$   $\chi^2/\text{NDF}: 1015.2/34$

In:  $0.137 \pm 0.007$   $\chi^2/\text{NDF}: 1086.2/34$

Out:  $0.145 \pm 0.008$   $\chi^2/\text{NDF}: 1321.6/36$

All:  $0.141 \pm 0.005$   $\chi^2/\text{NDF}: 2408.3/71$

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected

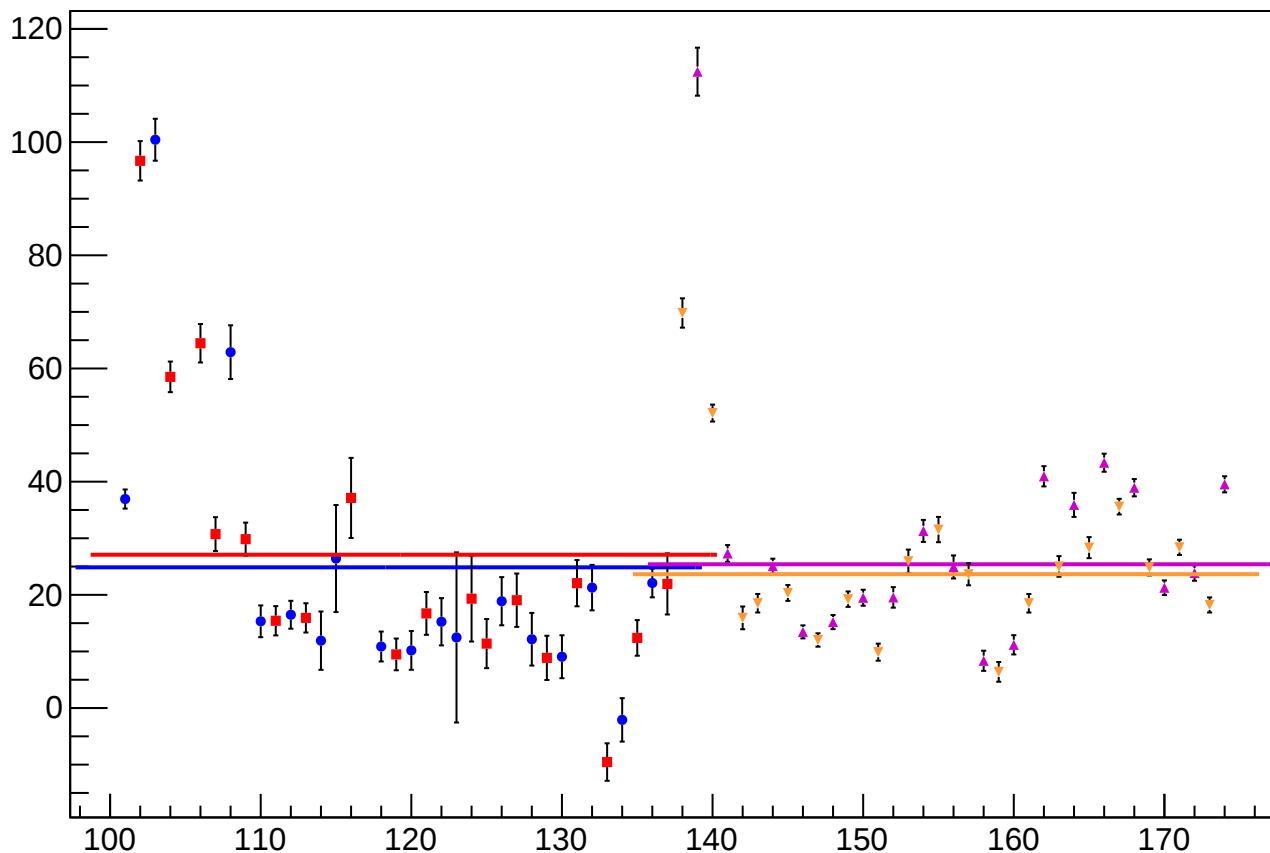


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -56.990+/-0.502  $\chi^2/\text{NDF}$ :2394.2/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -57.660+/-0.492  $\chi^2/\text{NDF}$ :2331.1/17

Left: -57.332+/-0.352  $\chi^2/\text{NDF}$ : 4726.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -57.660+/-0.492  $\chi^2/\text{NDF}$ :2331.1/17  
 Out: -56.990+/-0.502  $\chi^2/\text{NDF}$ :2394.2/18

All: -57.332+/-0.352  $\chi^2/\text{NDF}$ : 4726.2/36

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 24.863 $\pm$ 0.802  $\chi^2$ /NDF: 691.0/16

Left Out: 23.651 $\pm$ 0.364  $\chi^2$ /NDF:1129.8/18

Right Out: 27.093 $\pm$ 0.812  $\chi^2$ /NDF: 930.9/17

Left In: 25.406 $\pm$ 0.367  $\chi^2$ /NDF:1211.1/17

Left: 24.523 $\pm$ 0.258  $\chi^2$ /NDF: 2352.4/36

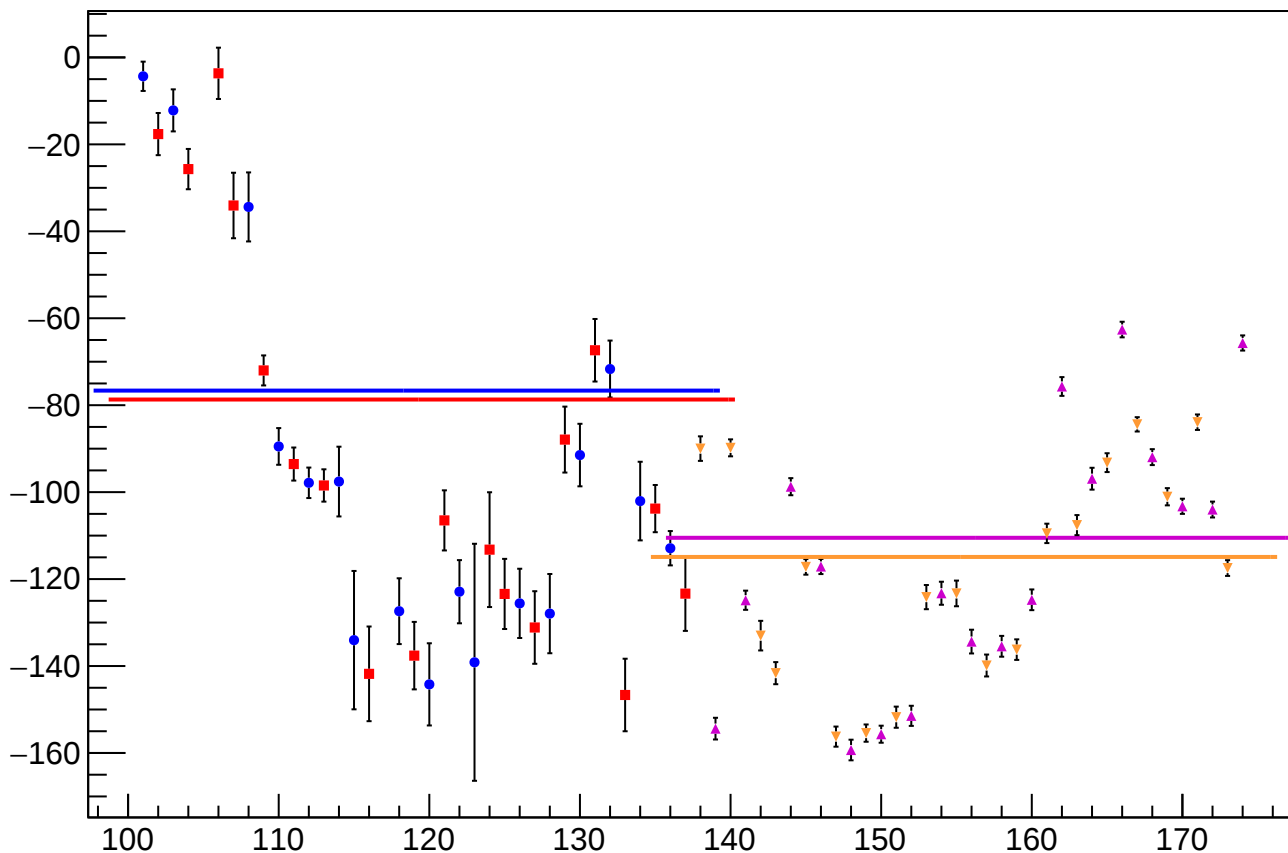
Right: 25.964 $\pm$ 0.570  $\chi^2$ /NDF: 1625.8/34

In: 25.312 $\pm$ 0.333  $\chi^2$ /NDF:1902.5/34

Out: 24.228 $\pm$ 0.332  $\chi^2$ /NDF:2075.7/36

All: 24.768 $\pm$ 0.235  $\chi^2$ /NDF: 3983.5/71

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:  $-114.908 \pm 0.502$   $\chi^2/\text{NDF}: 2359.7/18$

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}: 836.5/17$

Left In:  $-110.504 \pm 0.491$   $\chi^2/\text{NDF}: 3708.0/17$

Left:  $-112.660 \pm 0.351$   $\chi^2/\text{NDF}: 6107.1/36$

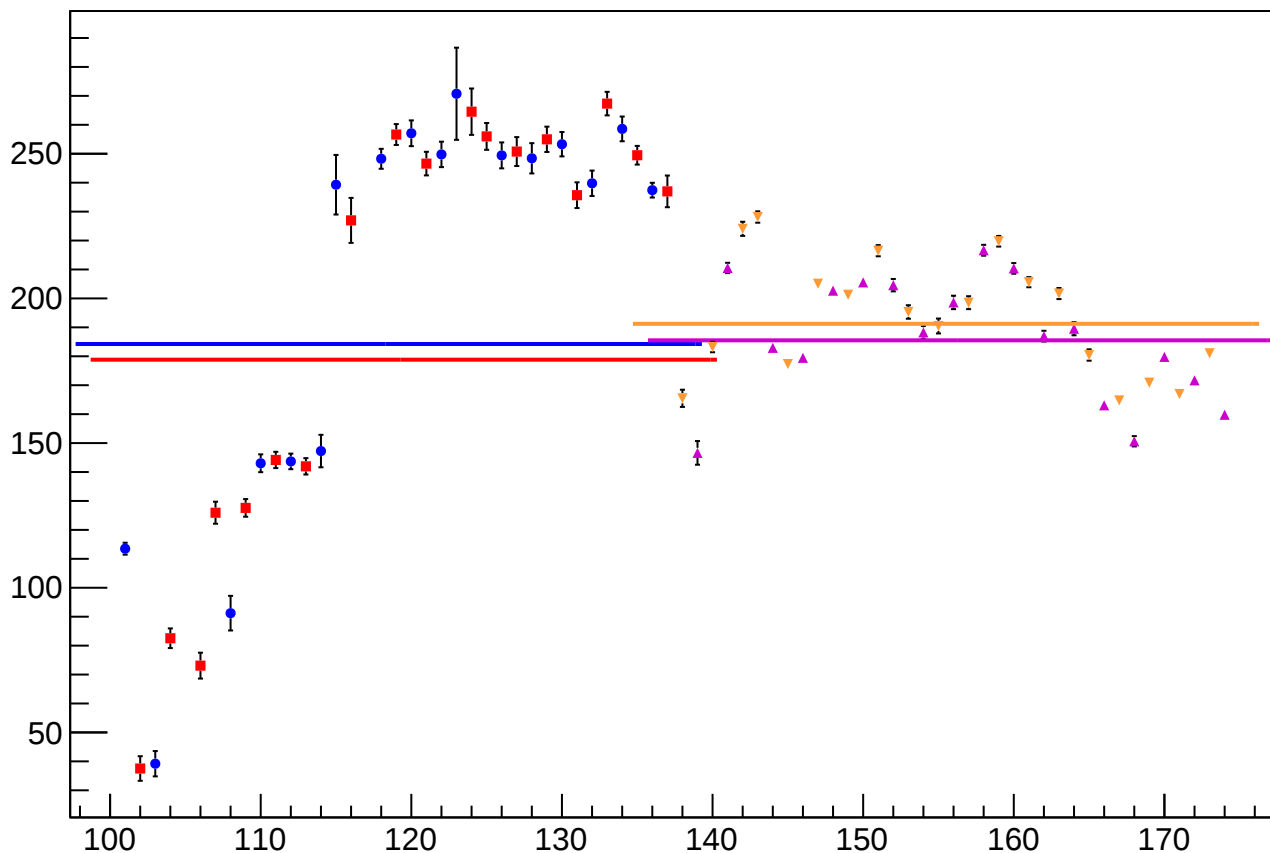
Right:  $-77.709 \pm 0.980$   $\chi^2/\text{NDF}: 1878.3/34$

In:  $-106.863 \pm 0.464$   $\chi^2/\text{NDF}: 5260.0/34$

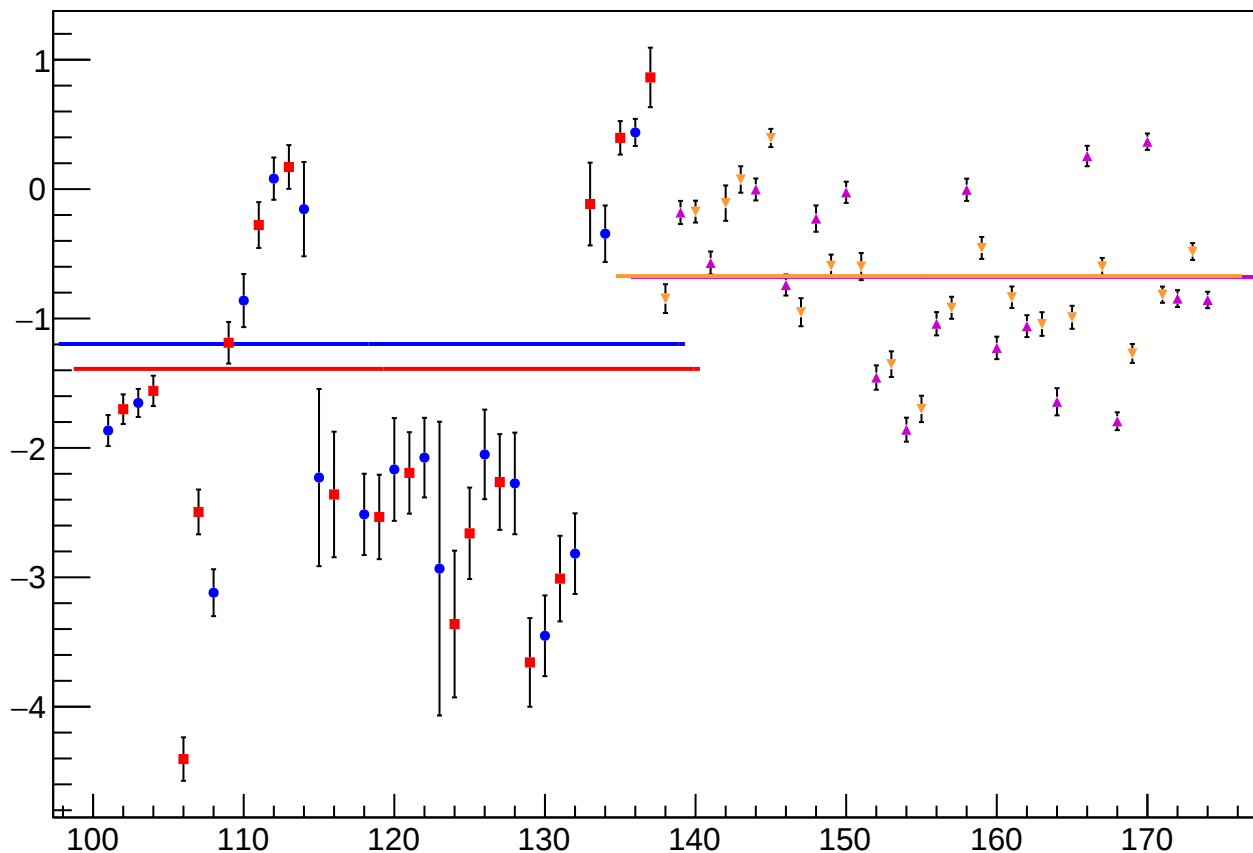
Out:  $-110.572 \pm 0.471$   $\chi^2/\text{NDF}: 3820.4/36$

All:  $-108.691 \pm 0.330$   $\chi^2/\text{NDF}: 9111.9/71$

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



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:  $-0.672 \pm 0.019$   $\chi^2/\text{NDF}$ : 623.6/18

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

Left In:  $-0.679 \pm 0.019$   $\chi^2/\text{NDF}$ : 1318.3/17

Left:  $-0.676 \pm 0.014$   $\chi^2/\text{NDF}$ : 1941.9/36

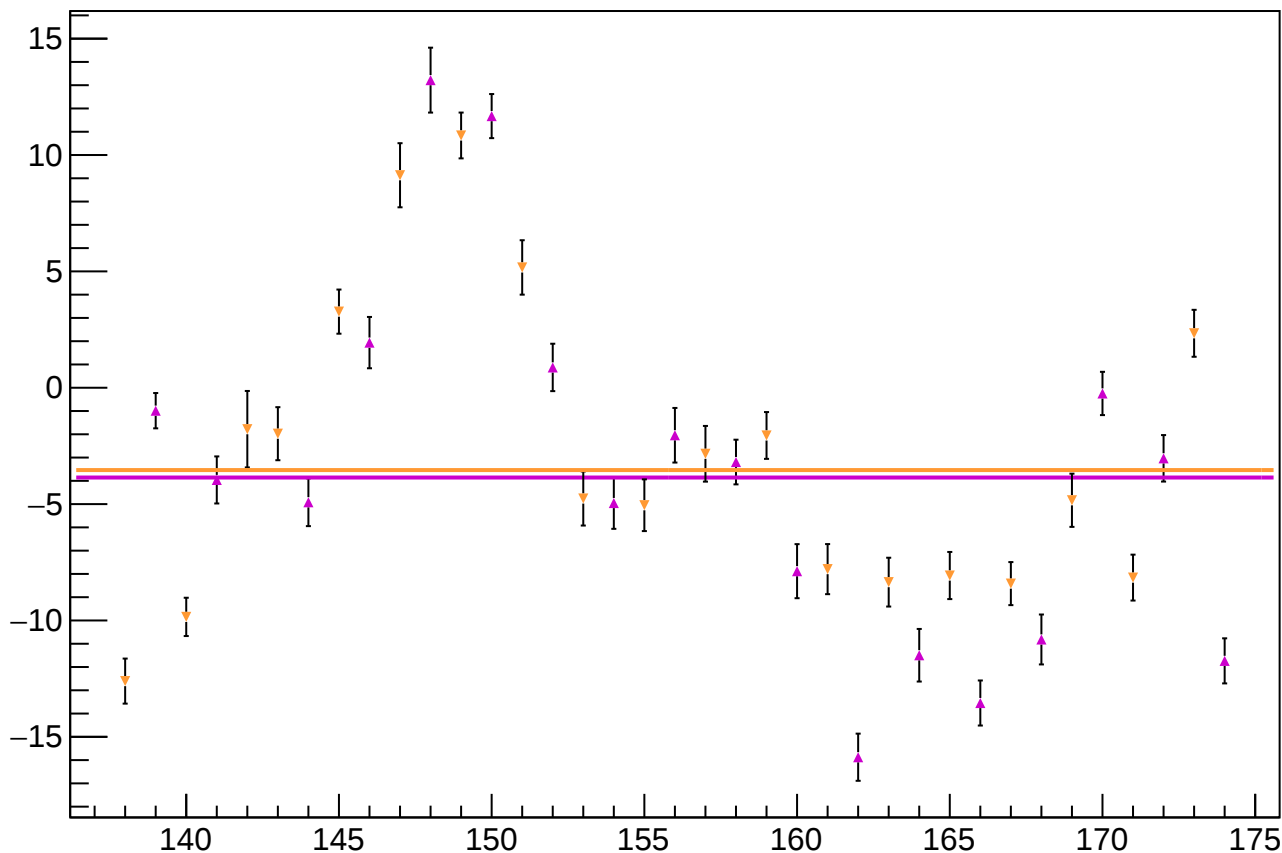
Right:  $-1.297 \pm 0.033$   $\chi^2/\text{NDF}$ : 1552.0/34

In:  $-0.749 \pm 0.018$   $\chi^2/\text{NDF}$ : 2039.9/34

Out:  $-0.780 \pm 0.018$   $\chi^2/\text{NDF}$ : 1751.4/36

All:  $-0.765 \pm 0.013$   $\chi^2/\text{NDF}$ : 3792.8/71

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: -3.538+/-0.242  $\chi^2/\text{NDF}$ : 701.8/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.858+/-0.240  $\chi^2/\text{NDF}$ : 909.7/17

Left: -3.699+/-0.171  $\chi^2/\text{NDF}$ : 1612.4/36

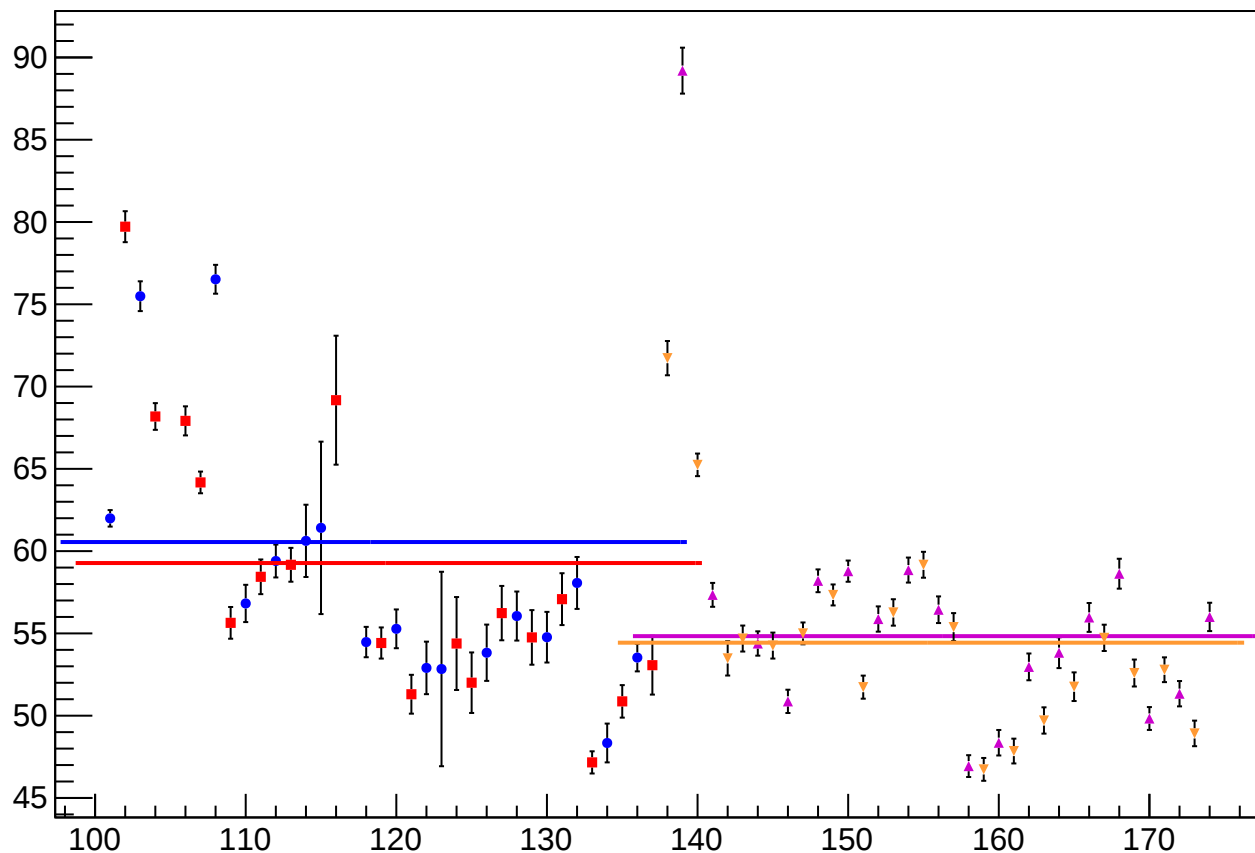
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.858+/-0.240  $\chi^2/\text{NDF}$ : 909.7/17

Out: -3.538+/-0.242  $\chi^2/\text{NDF}$ : 701.8/18

All: -3.699+/-0.171  $\chi^2/\text{NDF}$ : 1612.4/36

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $60.552 \pm 0.262$   $\chi^2/\text{NDF}: 931.0/16$

Left Out:  $54.436 \pm 0.178$   $\chi^2/\text{NDF}: 907.9/18$

Right Out:  $59.276 \pm 0.249$   $\chi^2/\text{NDF}: 1274.8/17$

Left In:  $54.834 \pm 0.183$   $\chi^2/\text{NDF}: 1056.0/17$

Left:  $54.629 \pm 0.127$   $\chi^2/\text{NDF}: 1966.3/36$

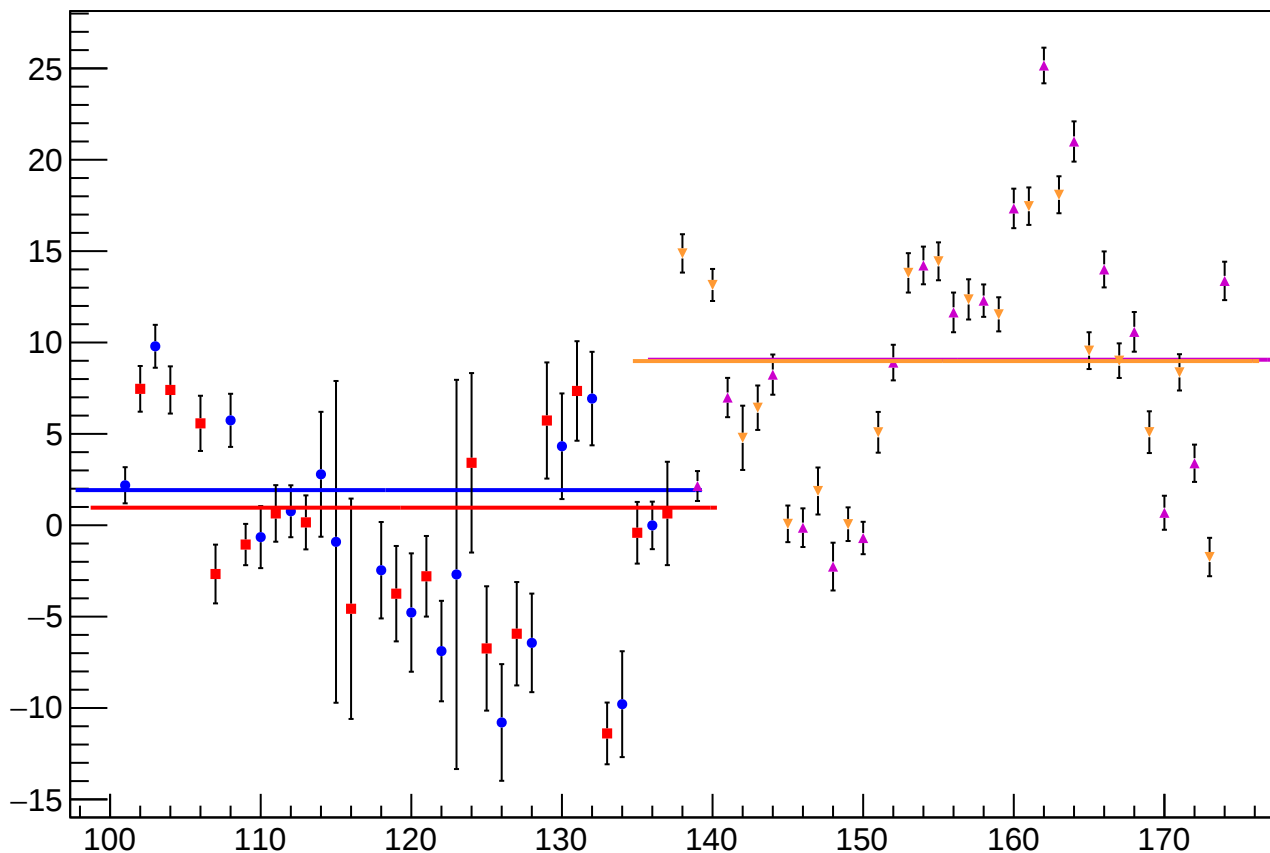
Right:  $59.882 \pm 0.180$   $\chi^2/\text{NDF}: 2218.3/34$

In:  $56.710 \pm 0.150$   $\chi^2/\text{NDF}: 2307.6/34$

Out:  $56.070 \pm 0.145$   $\chi^2/\text{NDF}: 2433.2/36$

All:  $56.378 \pm 0.104$   $\chi^2/\text{NDF}: 4750.3/71$

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:  $8.984 \pm 0.241$   $\chi^2/\text{NDF}: 610.4/18$

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}: 150.1/17$

Left In:  $9.058 \pm 0.238$   $\chi^2/\text{NDF}: 995.5/17$

Left:  $9.022 \pm 0.169$   $\chi^2/\text{NDF}: 1606.0/36$

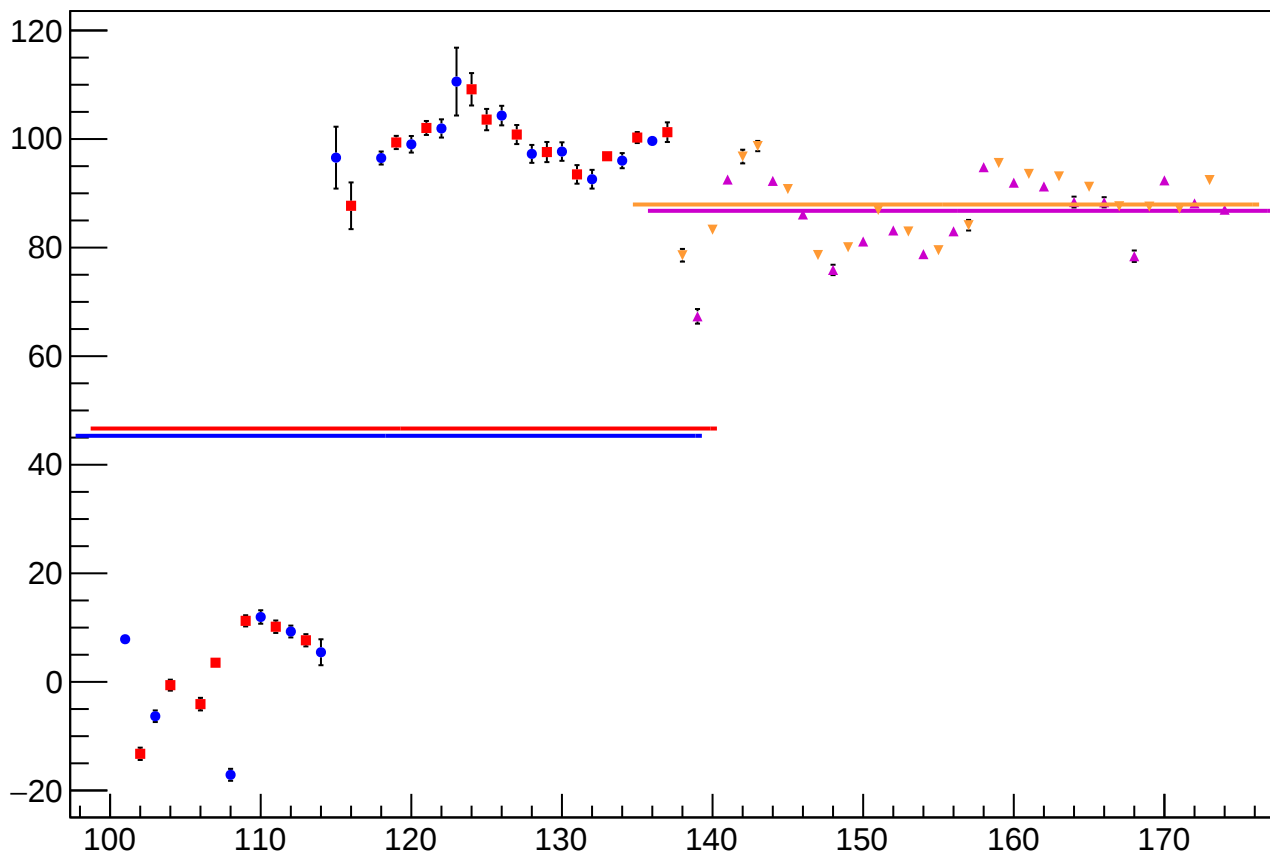
Right:  $1.411 \pm 0.313$   $\chi^2/\text{NDF}: 273.5/34$

In:  $7.544 \pm 0.211$   $\chi^2/\text{NDF}: 1307.5/34$

Out:  $7.069 \pm 0.210$   $\chi^2/\text{NDF}: 1025.9/36$

All:  $7.305 \pm 0.149$   $\chi^2/\text{NDF}: 2336.0/71$

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 87.939 $\pm$ 0.203  $\chi^2$ /NDF:868.6/18

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

Left In: 86.776 $\pm$ 0.207  $\chi^2$ /NDF:920.4/17

Left: 87.368 $\pm$ 0.145  $\chi^2$ /NDF: 1805.1/36

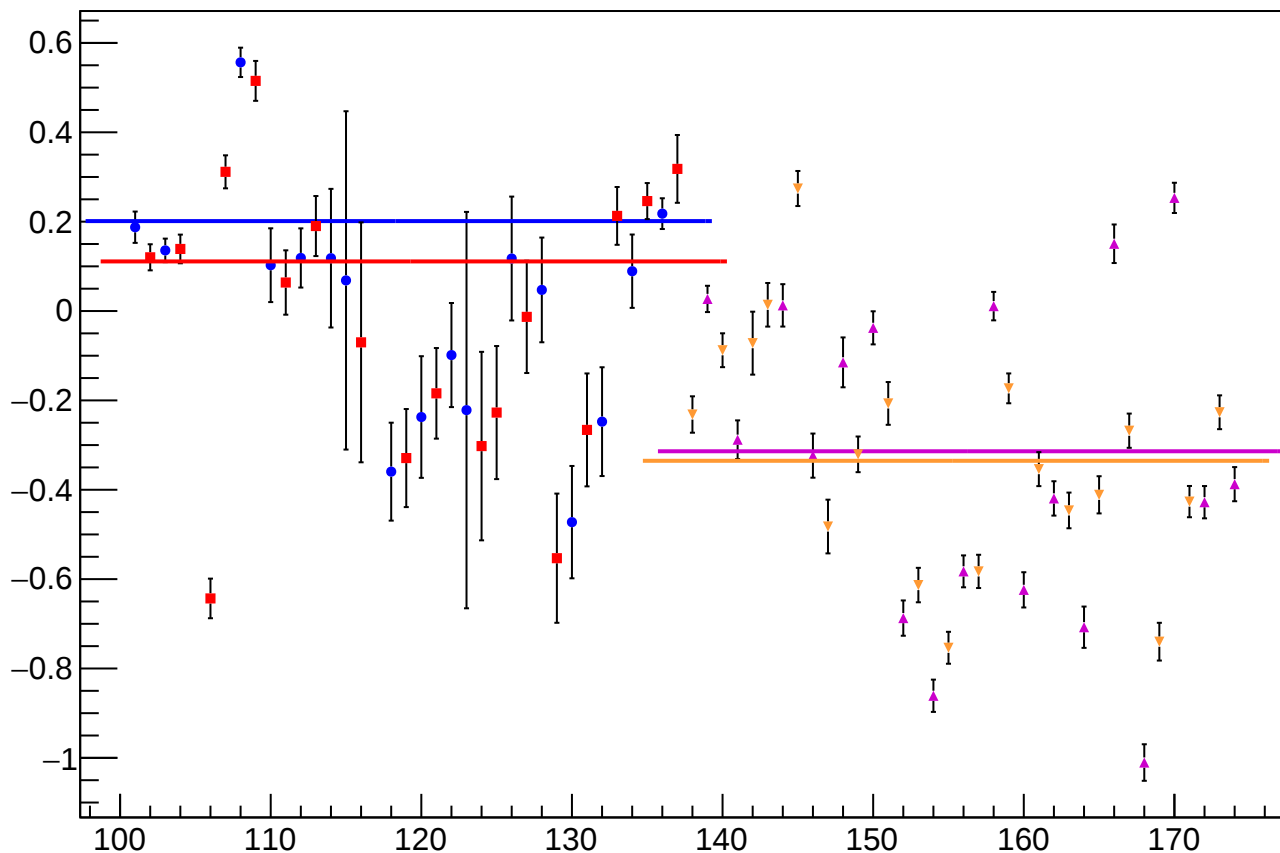
Right: 46.031 $\pm$ 0.210  $\chi^2$ /NDF: 52913.9/34

In: 73.633 $\pm$ 0.171  $\chi^2$ /NDF:38653.3/34

Out: 74.406 $\pm$ 0.167  $\chi^2$ /NDF:42302.2/36

All: 74.030 $\pm$ 0.119  $\chi^2$ /NDF: 80966.0/71

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:  $-0.335 \pm 0.009$   $\chi^2/\text{NDF}$ : 747.0/18

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

Left In:  $-0.314 \pm 0.009$   $\chi^2/\text{NDF}$ : 1572.5/17

Left:  $-0.324 \pm 0.007$   $\chi^2/\text{NDF}$ : 2322.2/36

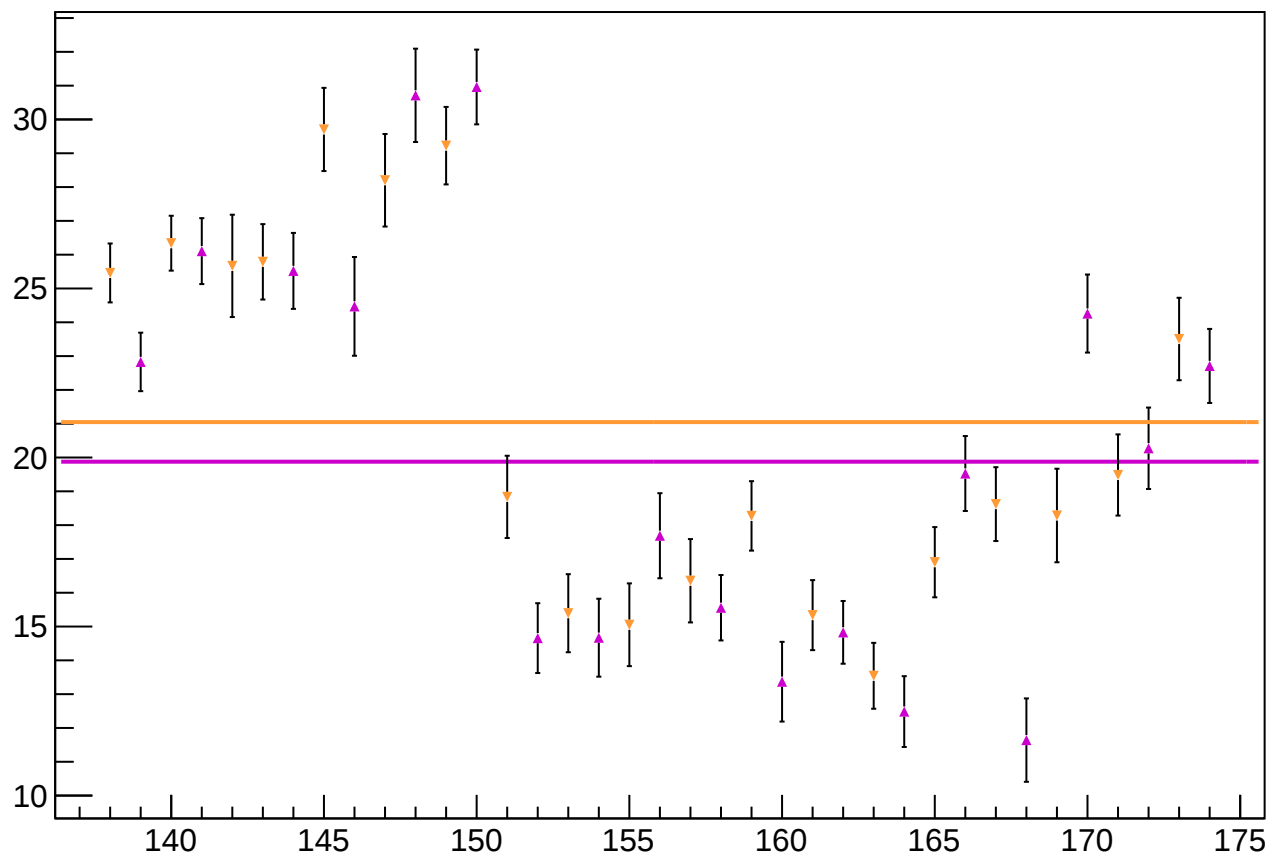
Right:  $0.153 \pm 0.010$   $\chi^2/\text{NDF}$ : 728.8/34

In:  $-0.161 \pm 0.008$   $\chi^2/\text{NDF}$ : 2736.3/34

Out:  $-0.187 \pm 0.008$   $\chi^2/\text{NDF}$ : 2004.0/36

All:  $-0.174 \pm 0.005$   $\chi^2/\text{NDF}$ : 4746.3/71

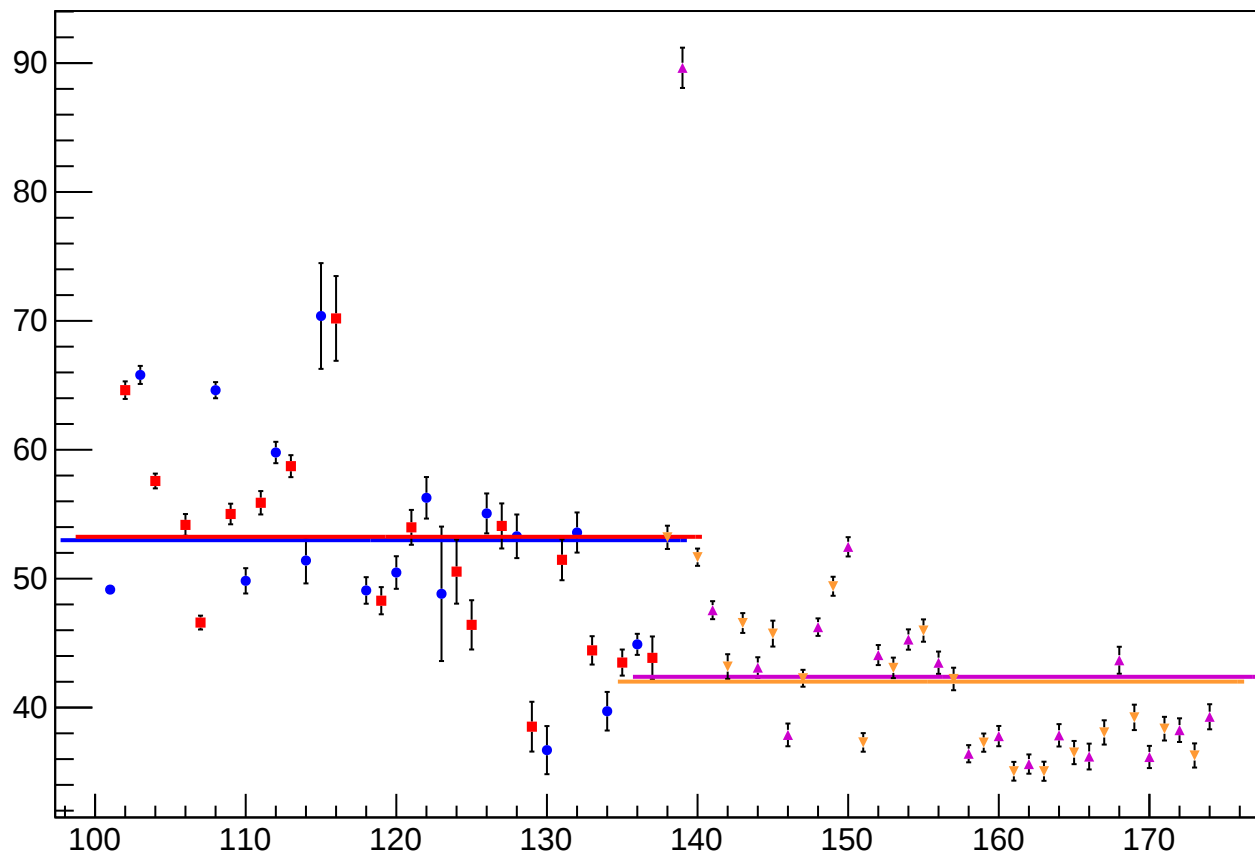
reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 21.048 $\pm$ 0.255  $\chi^2$ /NDF:416.5/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 19.877 $\pm$ 0.259  $\chi^2$ /NDF:494.3/17

Left: 20.471 $\pm$ 0.182  $\chi^2$ /NDF: 921.2/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 19.877 $\pm$ 0.259  $\chi^2$ /NDF:494.3/17  
 Out: 21.048 $\pm$ 0.255  $\chi^2$ /NDF:416.5/18  
 All: 20.471 $\pm$ 0.182  $\chi^2$ /NDF: 921.2/36

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: 42.012 $\pm$ 0.186  $\chi^2$ /NDF:917.6/18

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

Left In: 42.385 $\pm$ 0.195  $\chi^2$ /NDF:1575.0/17

Left: 42.190 $\pm$ 0.134  $\chi^2$ /NDF: 2494.5/36

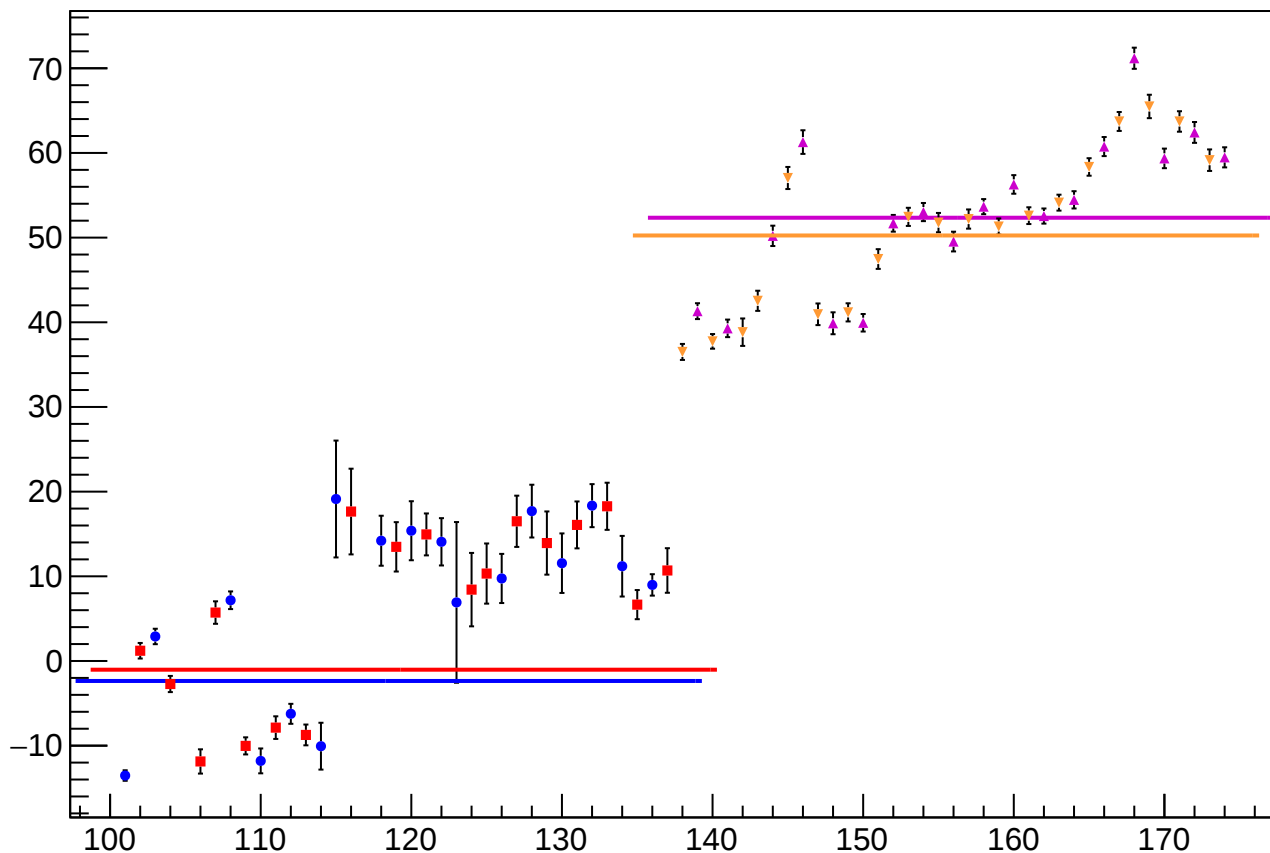
Right: 53.106 $\pm$ 0.154  $\chi^2$ /NDF: 2055.0/34

In: 47.281 $\pm$ 0.143  $\chi^2$ /NDF:4139.9/34

Out: 46.513 $\pm$ 0.144  $\chi^2$ /NDF:3237.7/36

All: 46.899 $\pm$ 0.101  $\chi^2$ /NDF: 7392.0/71

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:  $50.252 \pm 0.253$   $\chi^2/\text{NDF}: 1204.0/18$

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}: 507.8/17$

Left In:  $52.347 \pm 0.256$   $\chi^2/\text{NDF}: 1027.3/17$

Left:  $51.290 \pm 0.180$   $\chi^2/\text{NDF}: 2265.2/36$

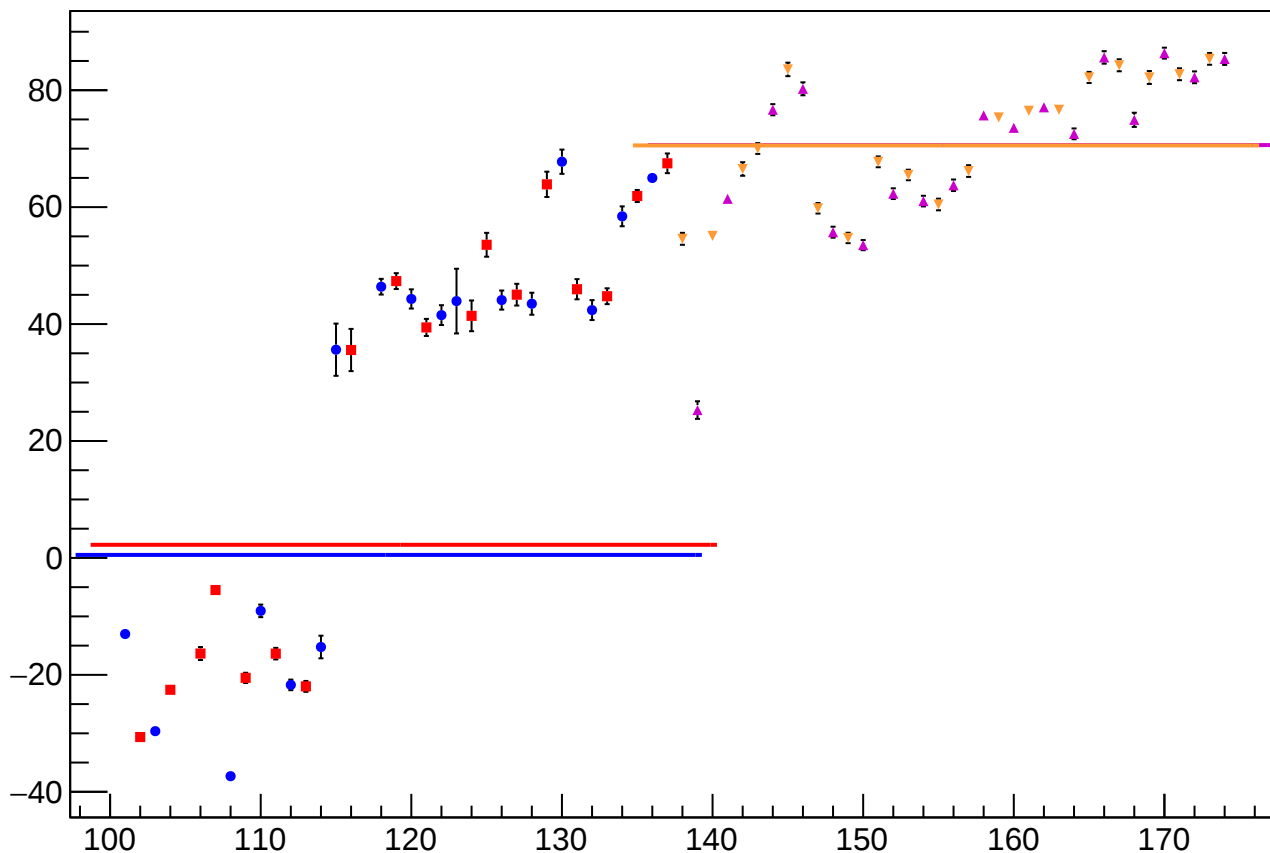
Right:  $-1.723 \pm 0.263$   $\chi^2/\text{NDF}: 1351.9/34$

In:  $34.271 \pm 0.209$   $\chi^2/\text{NDF}: 16978.9/34$

Out:  $34.492 \pm 0.211$   $\chi^2/\text{NDF}: 14309.2/36$

All:  $34.381 \pm 0.149$   $\chi^2/\text{NDF}: 31288.7/71$

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.518 \pm 0.247$   $\chi^2/\text{NDF}$ : 18386.0/16

Left Out:  $70.557 \pm 0.213$   $\chi^2/\text{NDF}$ : 2327.7/18

Right Out:  $2.246 \pm 0.267$   $\chi^2/\text{NDF}$ : 15377.0/17

Left In:  $70.615 \pm 0.221$   $\chi^2/\text{NDF}$ : 2991.3/17

Left:  $70.585 \pm 0.153$   $\chi^2/\text{NDF}$ : 5319.0/36

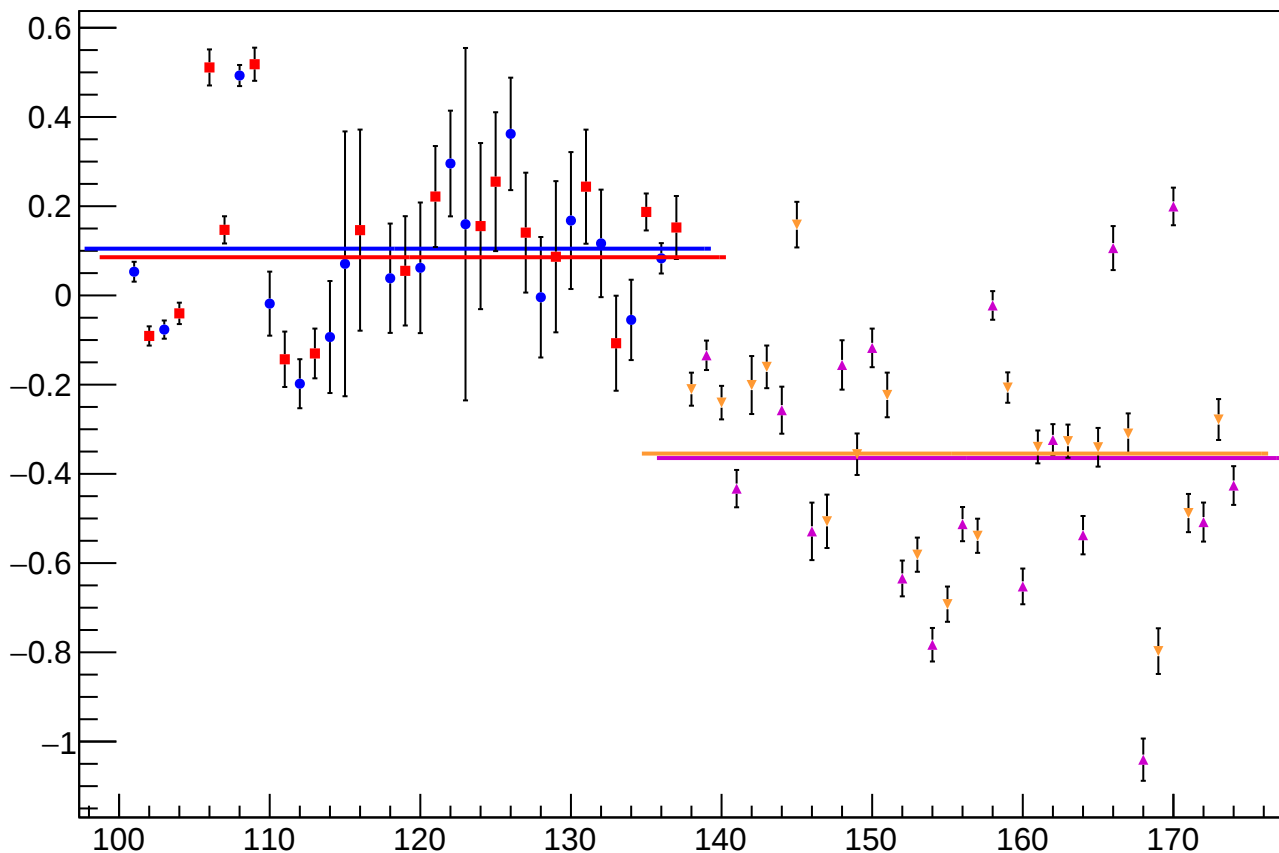
Right:  $1.313 \pm 0.181$   $\chi^2/\text{NDF}$ : 33785.6/34

In:  $39.474 \pm 0.165$   $\chi^2/\text{NDF}$ : 66163.1/34

Out:  $44.000 \pm 0.167$   $\chi^2/\text{NDF}$ : 57592.8/36

All:  $41.708 \pm 0.117$   $\chi^2/\text{NDF}$ : 124129.1/71

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:  $-0.355 \pm 0.010$   $\chi^2/\text{NDF}: 399.7/18$

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}: 388.3/17$

Left In:  $-0.365 \pm 0.010$   $\chi^2/\text{NDF}: 962.3/17$

Left:  $-0.360 \pm 0.007$   $\chi^2/\text{NDF}: 1362.5/36$

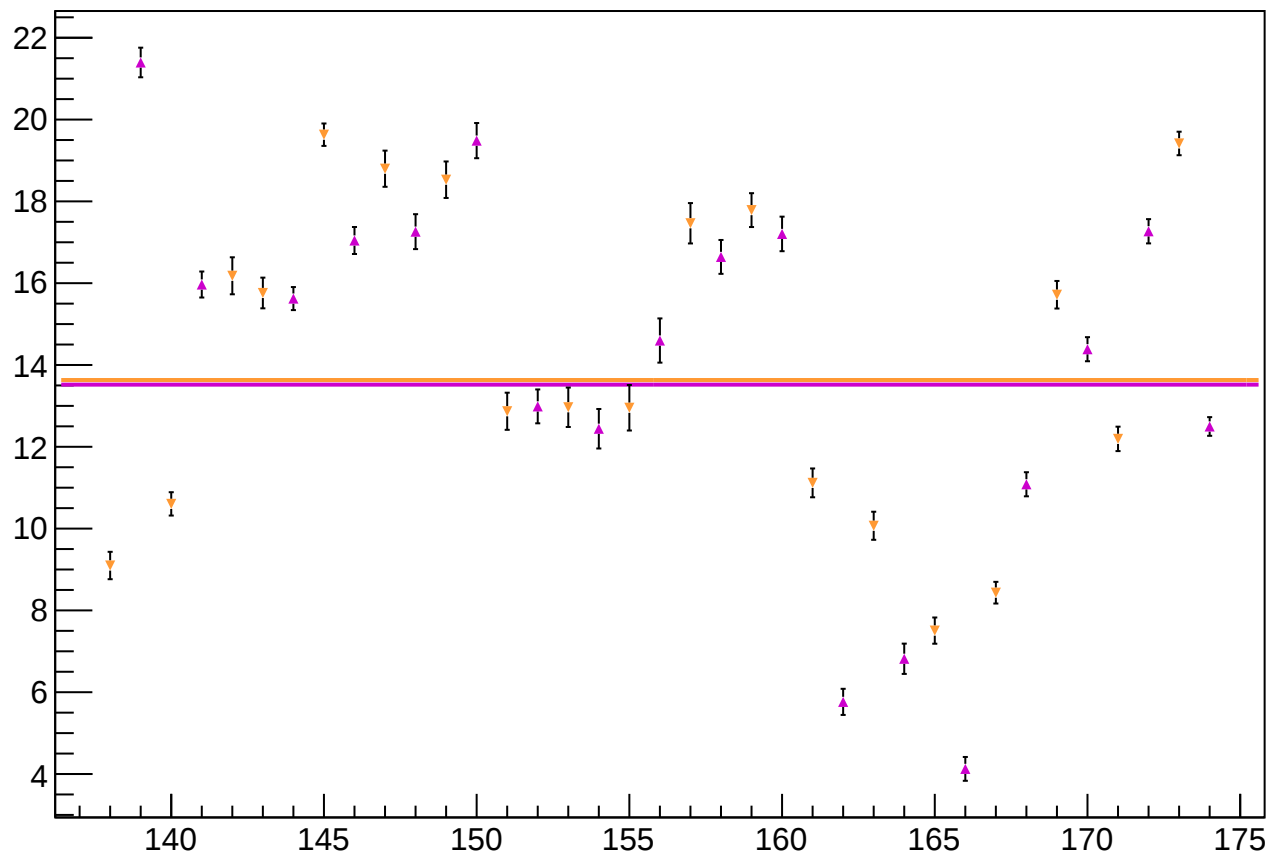
Right:  $0.095 \pm 0.008$   $\chi^2/\text{NDF}: 790.6/34$

In:  $-0.157 \pm 0.007$   $\chi^2/\text{NDF}: 2372.6/34$

Out:  $-0.161 \pm 0.007$   $\chi^2/\text{NDF}: 1671.9/36$

All:  $-0.159 \pm 0.005$   $\chi^2/\text{NDF}: 4044.7/71$

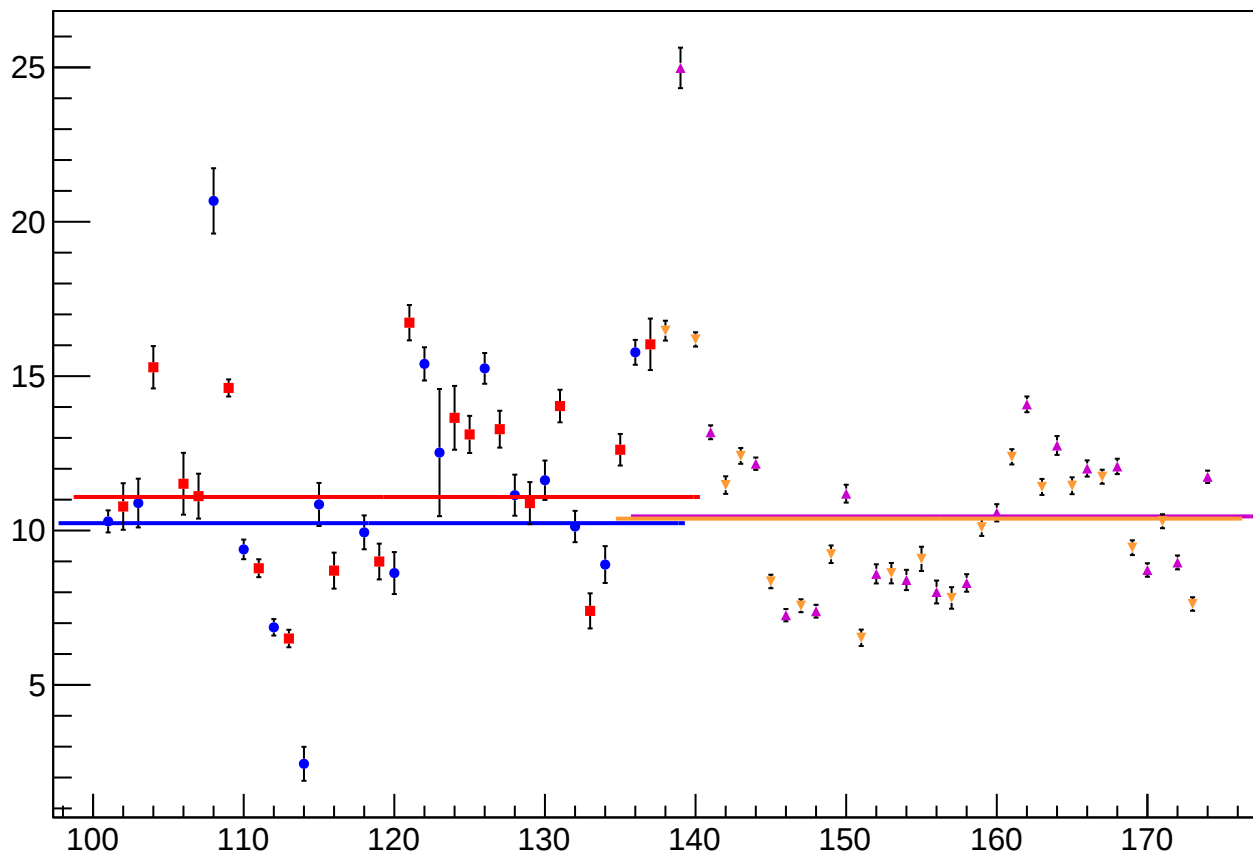
reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 13.632 $\pm$ 0.081  $\chi^2$ /NDF:2638.3/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 13.520 $\pm$ 0.080  $\chi^2$ /NDF:3329.2/17

Left: 13.575 $\pm$ 0.057  $\chi^2$ /NDF: 5968.4/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 13.520 $\pm$ 0.080  $\chi^2$ /NDF:3329.2/17  
 Out: 13.632 $\pm$ 0.081  $\chi^2$ /NDF:2638.3/18  
 All: 13.575 $\pm$ 0.057  $\chi^2$ /NDF: 5968.4/36

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 10.238+/-0.119  $\chi^2/\text{NDF}$ : 867.4/16

Left Out: 10.385+/-0.059  $\chi^2/\text{NDF}$ :1959.8/18

Right Out: 11.087+/-0.116  $\chi^2/\text{NDF}$ : 801.0/17

Left In: 10.457+/-0.060  $\chi^2/\text{NDF}$ :1852.9/17

Left: 10.421+/-0.042  $\chi^2/\text{NDF}$ : 3813.5/36

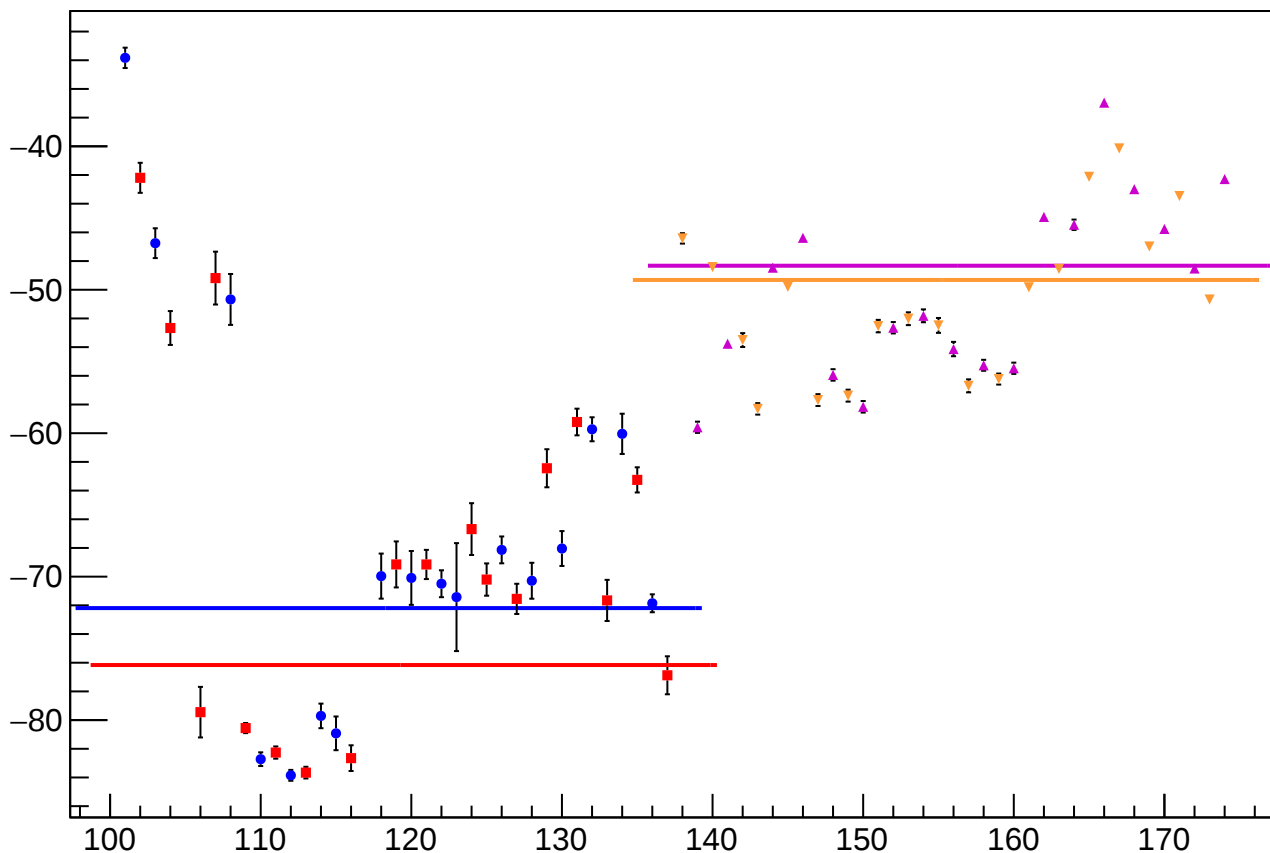
Right: 10.672+/-0.083  $\chi^2/\text{NDF}$ : 1694.4/34

In: 10.414+/-0.053  $\chi^2/\text{NDF}$ :2723.1/34

Out: 10.530+/-0.053  $\chi^2/\text{NDF}$ :2789.6/36

All: 10.472+/-0.038  $\chi^2/\text{NDF}$ : 5515.1/71

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:  $-49.317 \pm 0.082$   $\chi^2/\text{NDF}: 4264.9/18$

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}: 3223.3/17$

Left In:  $-48.324 \pm 0.080$   $\chi^2/\text{NDF}: 5705.9/17$

Left:  $-48.810 \pm 0.057$   $\chi^2/\text{NDF}: 10046.5/36$

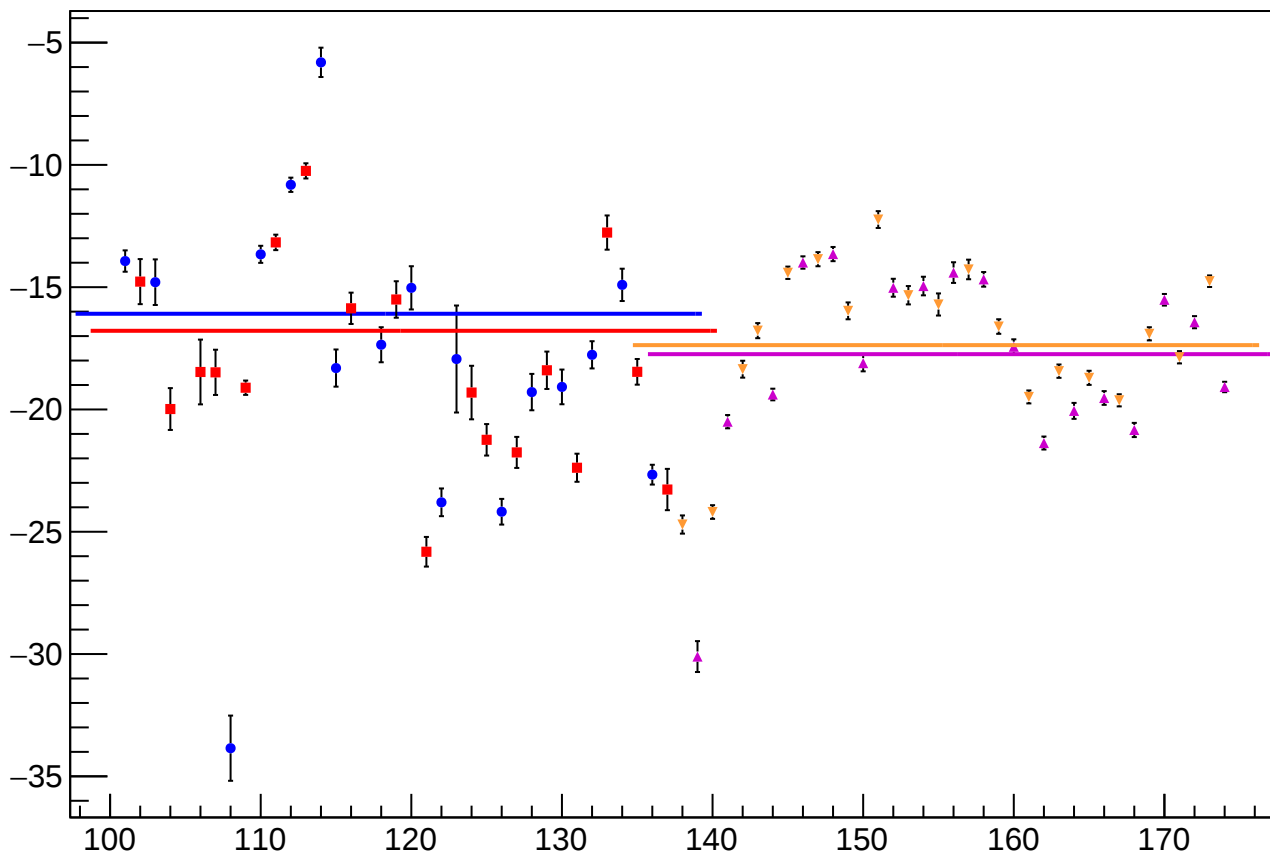
Right:  $-74.353 \pm 0.134$   $\chi^2/\text{NDF}: 9004.8/34$

In:  $-51.659 \pm 0.074$   $\chi^2/\text{NDF}: 23752.8/34$

Out:  $-53.839 \pm 0.074$   $\chi^2/\text{NDF}: 25732.4/36$

All:  $-52.744 \pm 0.052$   $\chi^2/\text{NDF}: 49916.6/71$

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -16.087 $\pm$ 0.132  $\chi^2$ /NDF: 1621.7/16

Left Out: -17.370 $\pm$ 0.068  $\chi^2$ /NDF:1937.9/18

Right Out: -16.783 $\pm$ 0.128  $\chi^2$ /NDF: 1204.4/17

Left In: -17.739 $\pm$ 0.068  $\chi^2$ /NDF:1776.6/17

Left: -17.554 $\pm$ 0.048  $\chi^2$ /NDF: 3729.2/36

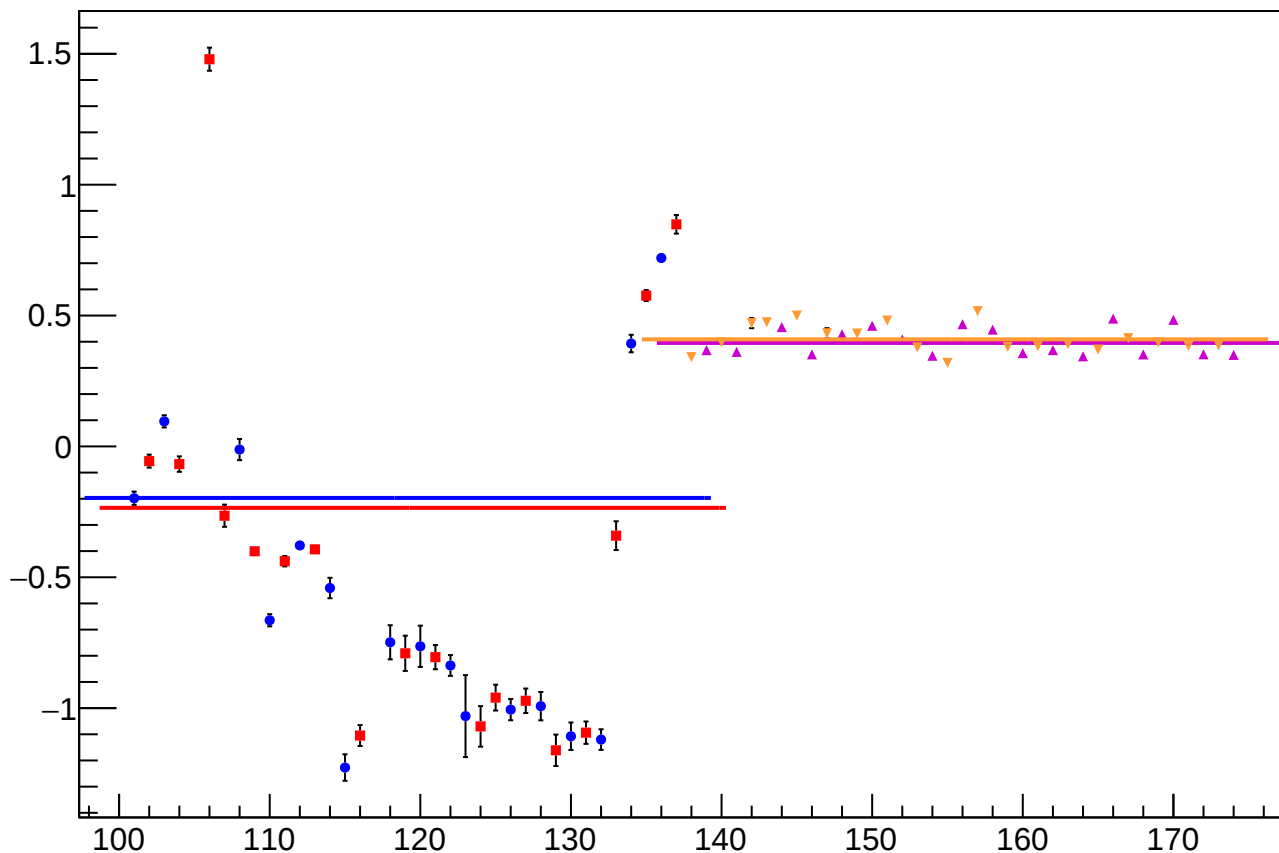
Right: -16.446 $\pm$ 0.092  $\chi^2$ /NDF: 2840.4/34

In: -17.394 $\pm$ 0.061  $\chi^2$ /NDF:3521.5/34

Out: -17.241 $\pm$ 0.060  $\chi^2$ /NDF:3158.6/36

All: -17.317 $\pm$ 0.043  $\chi^2$ /NDF: 6683.3/71

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:  $0.409 \pm 0.003$   $\chi^2/\text{NDF}$ : 238.7/18

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

Left In:  $0.395 \pm 0.003$   $\chi^2/\text{NDF}$ : 301.3/17

Left:  $0.402 \pm 0.002$   $\chi^2/\text{NDF}$ : 549.5/36

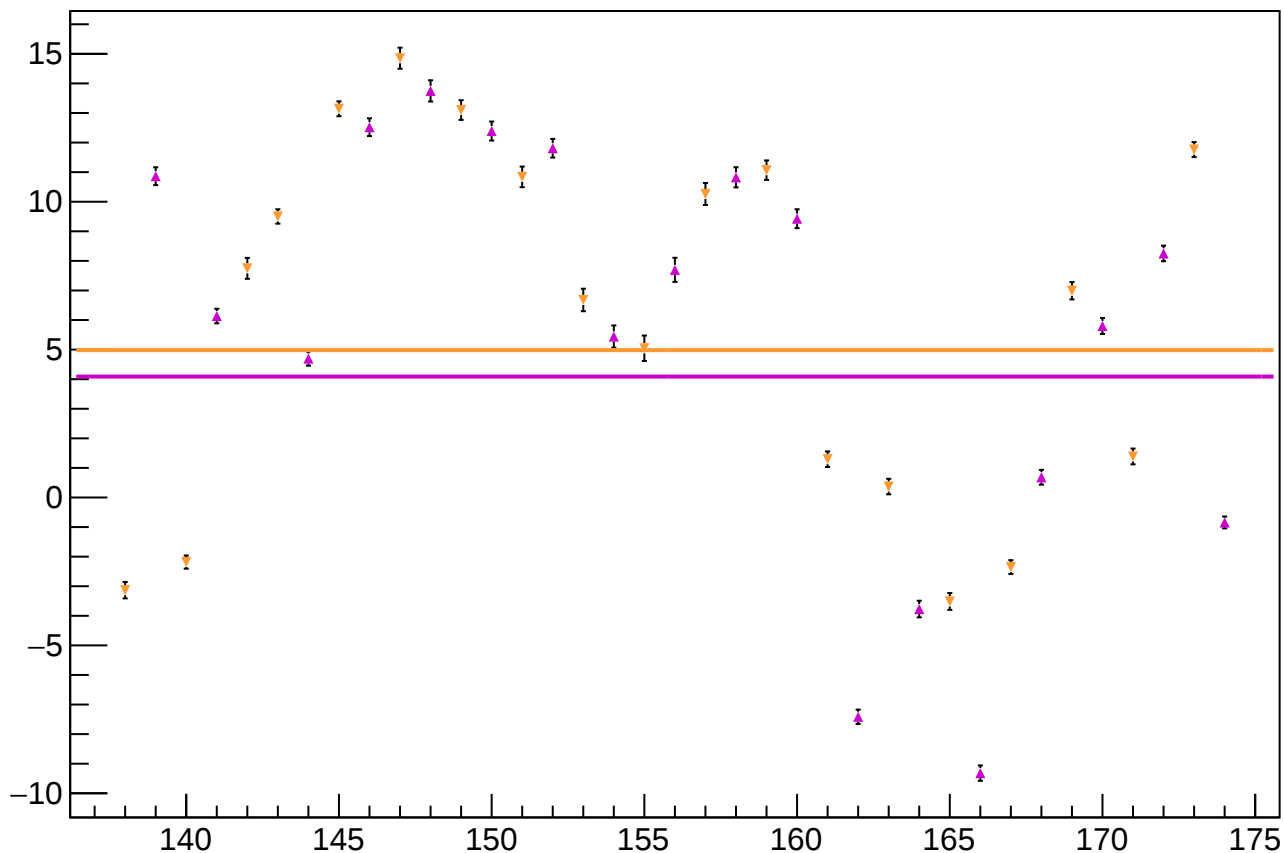
Right:  $-0.217 \pm 0.005$   $\chi^2/\text{NDF}$ : 12547.9/34

In:  $0.310 \pm 0.003$   $\chi^2/\text{NDF}$ : 11898.5/34

Out:  $0.304 \pm 0.003$   $\chi^2/\text{NDF}$ : 13160.3/36

All:  $0.307 \pm 0.002$   $\chi^2/\text{NDF}$ : 25060.5/71

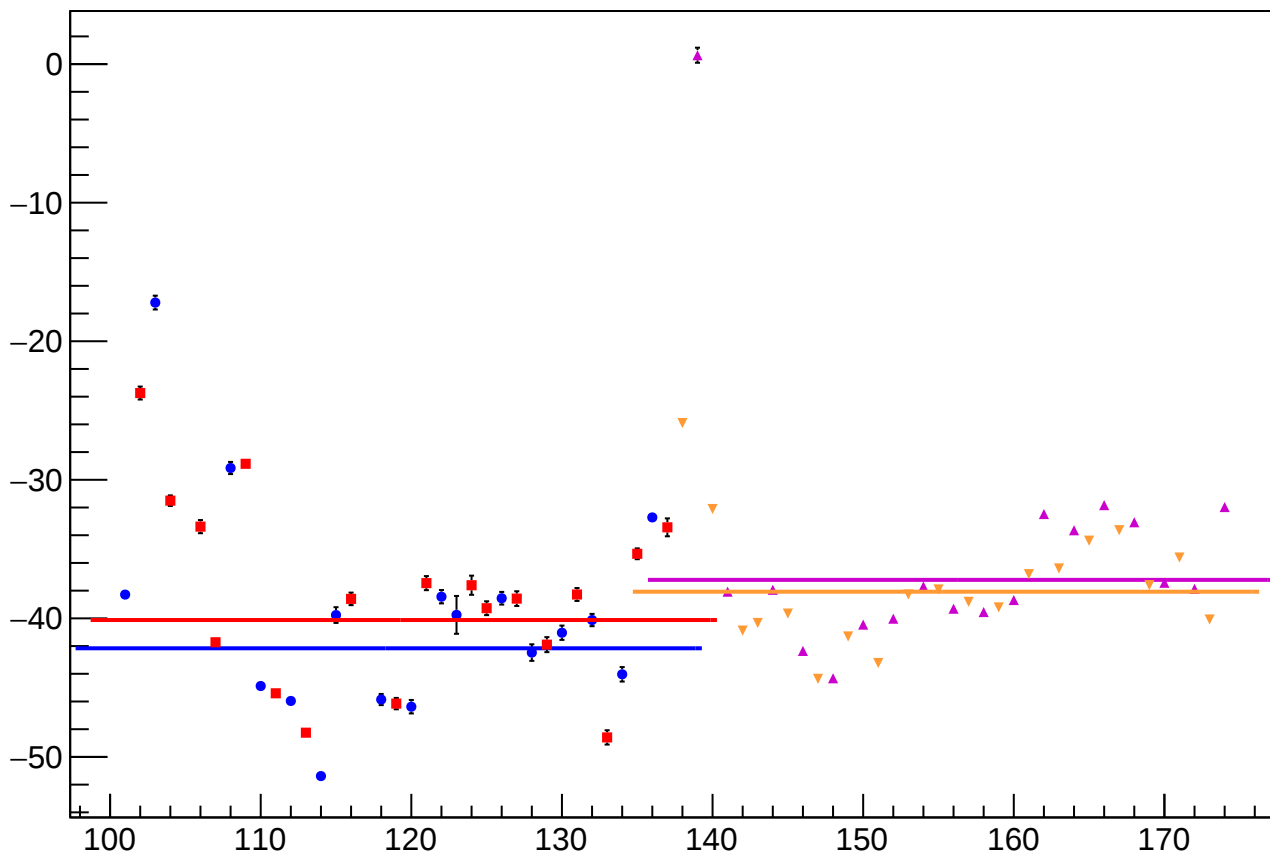
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.983+/-0.066  $\chi^2/\text{NDF}$ :8879.6/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.089+/-0.066  $\chi^2/\text{NDF}$ :10893.7/17

Left: 4.536+/-0.047  $\chi^2/\text{NDF}$ : 19864.7/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.089+/-0.066  $\chi^2/\text{NDF}$ :10893.7/17  
 Out: 4.983+/-0.066  $\chi^2/\text{NDF}$ :8879.6/18  
 All: 4.536+/-0.047  $\chi^2/\text{NDF}$ : 19864.7/36

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:  $-38.076 \pm 0.048$   $\chi^2/\text{NDF}: 6885.8/18$

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}: 10884.6/17$

Left In:  $-37.222 \pm 0.050$   $\chi^2/\text{NDF}: 10467.7/17$

Left:  $-37.663 \pm 0.035$   $\chi^2/\text{NDF}: 17506.3/36$

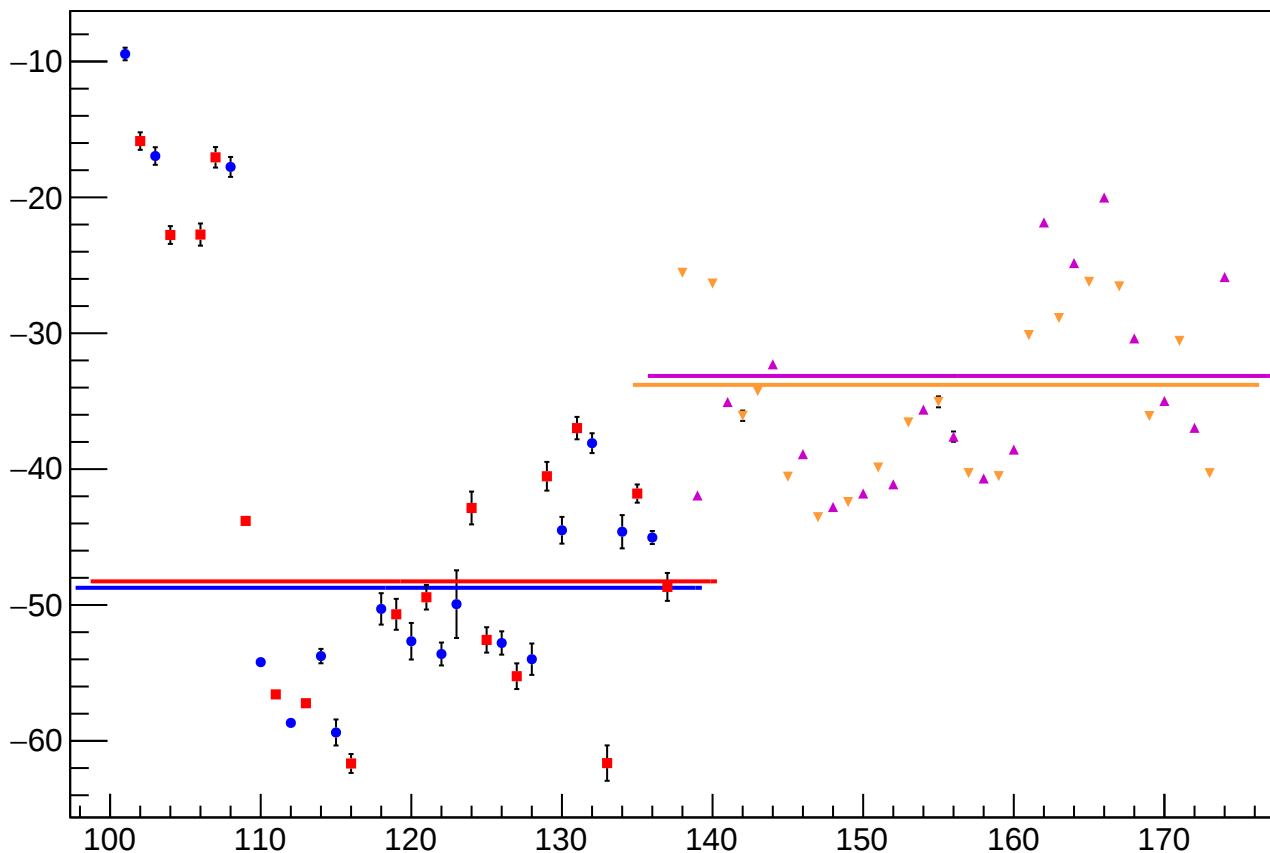
Right:  $-41.071 \pm 0.053$   $\chi^2/\text{NDF}: 17821.0/34$

In:  $-38.648 \pm 0.042$   $\chi^2/\text{NDF}: 19895.0/34$

Out:  $-38.695 \pm 0.040$   $\chi^2/\text{NDF}: 18318.9/36$

All:  $-38.673 \pm 0.029$   $\chi^2/\text{NDF}: 38214.6/71$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}: 14659.4/16$

Left Out:  $-33.799 \pm 0.066$   $\chi^2/\text{NDF}: 8326.2/18$

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}: 11091.7/17$

Left In:  $-33.142 \pm 0.066$   $\chi^2/\text{NDF}: 11844.4/17$

Left:  $-33.470 \pm 0.047$   $\chi^2/\text{NDF}: 20219.7/36$

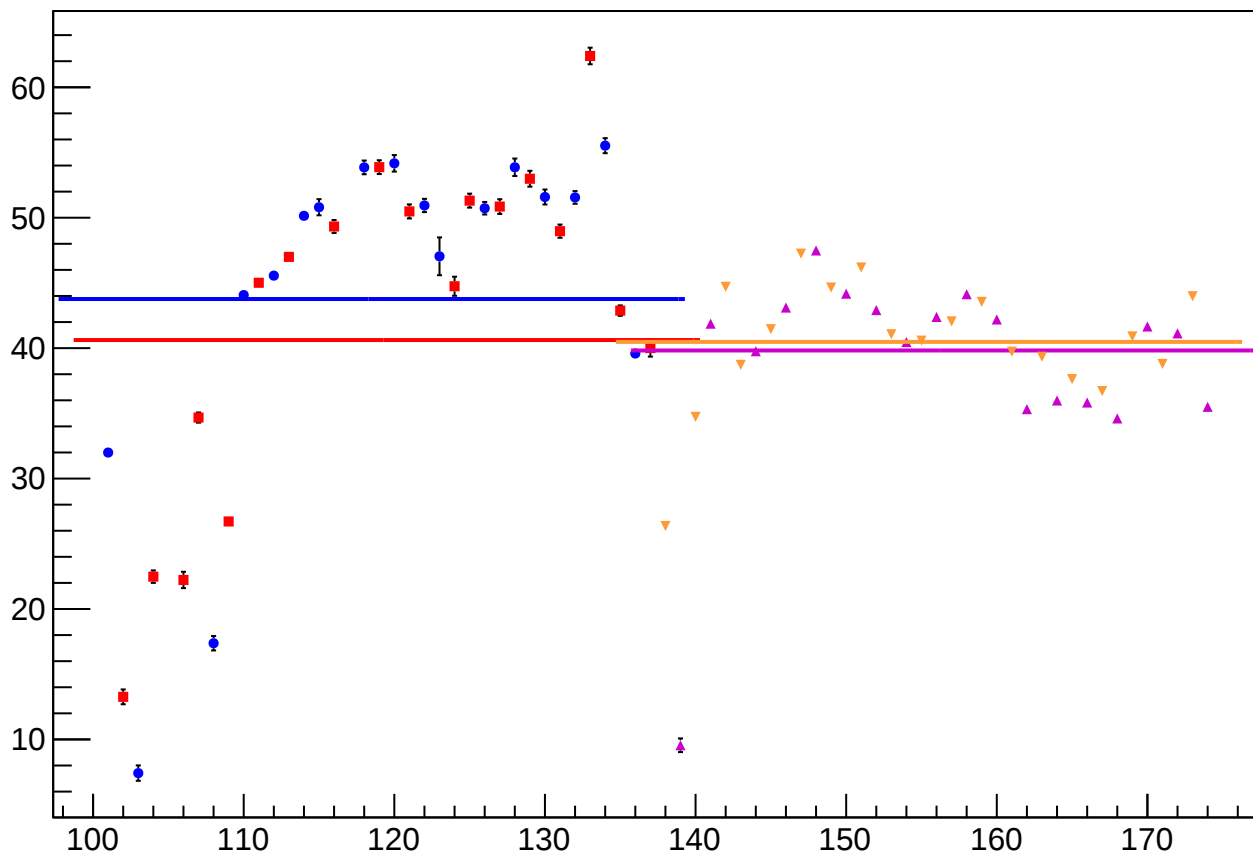
Right:  $-48.462 \pm 0.081$   $\chi^2/\text{NDF}: 25759.4/34$

In:  $-36.567 \pm 0.058$   $\chi^2/\text{NDF}: 38704.8/34$

Out:  $-37.787 \pm 0.056$   $\chi^2/\text{NDF}: 32540.7/36$

All:  $-37.198 \pm 0.041$   $\chi^2/\text{NDF}: 71471.0/71$

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 43.767 $\pm$ 0.087  $\chi^2$ /NDF: 10633.5/16

Left Out: 40.479 $\pm$ 0.055  $\chi^2$ /NDF: 5654.5/18

Right Out: 40.620 $\pm$ 0.080  $\chi^2$ /NDF: 16957.4/17

Left In: 39.822 $\pm$ 0.056  $\chi^2$ /NDF: 7583.0/17

Left: 40.158 $\pm$ 0.039  $\chi^2$ /NDF: 13306.8/36

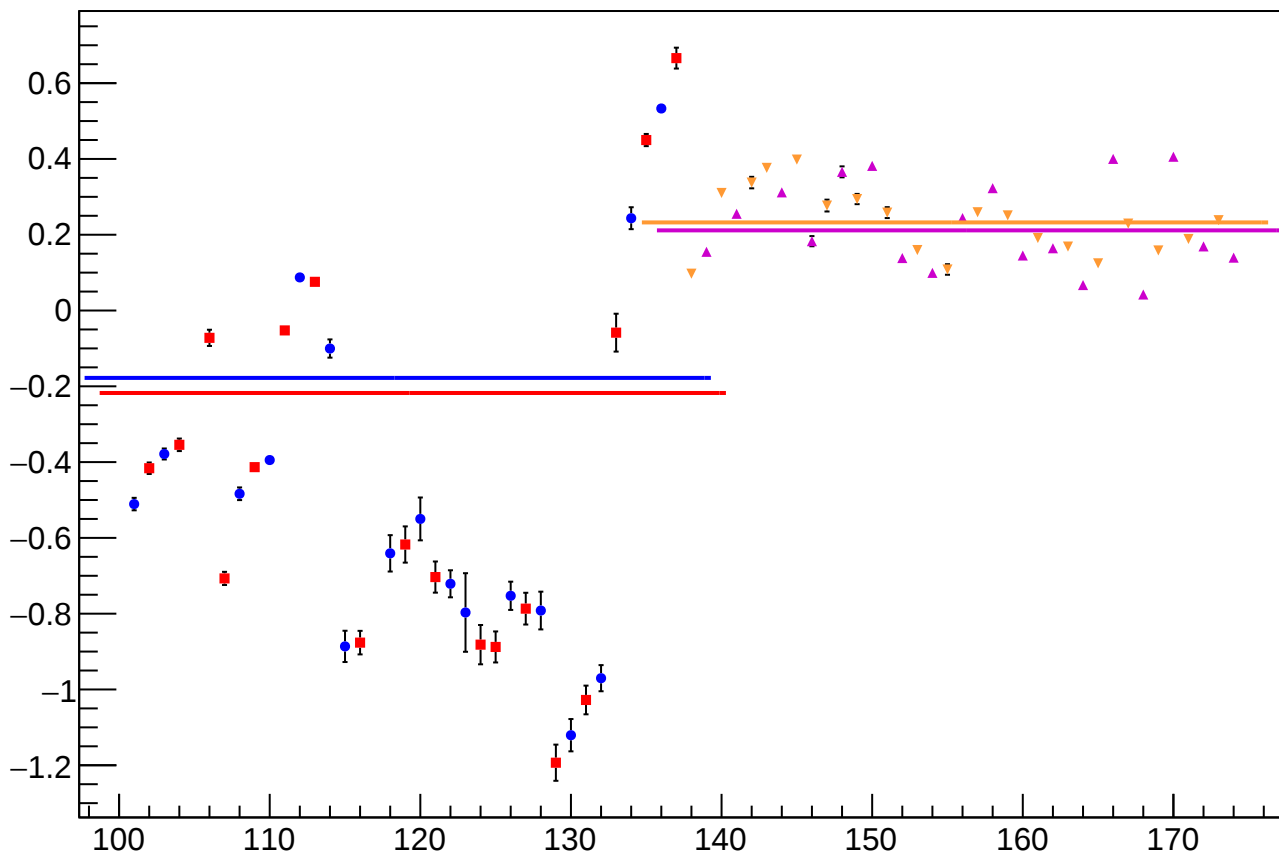
Right: 42.070 $\pm$ 0.059  $\chi^2$ /NDF: 28299.2/34

In: 40.995 $\pm$ 0.047  $\chi^2$ /NDF: 19667.6/34

Out: 40.524 $\pm$ 0.045  $\chi^2$ /NDF: 22614.0/36

All: 40.750 $\pm$ 0.033  $\chi^2$ /NDF: 42333.0/71

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:  $0.232 \pm 0.003$   $\chi^2/\text{NDF}$ : 1035.6/18

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

Left In:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 1922.6/17

Left:  $0.222 \pm 0.002$   $\chi^2/\text{NDF}$ : 2991.4/36

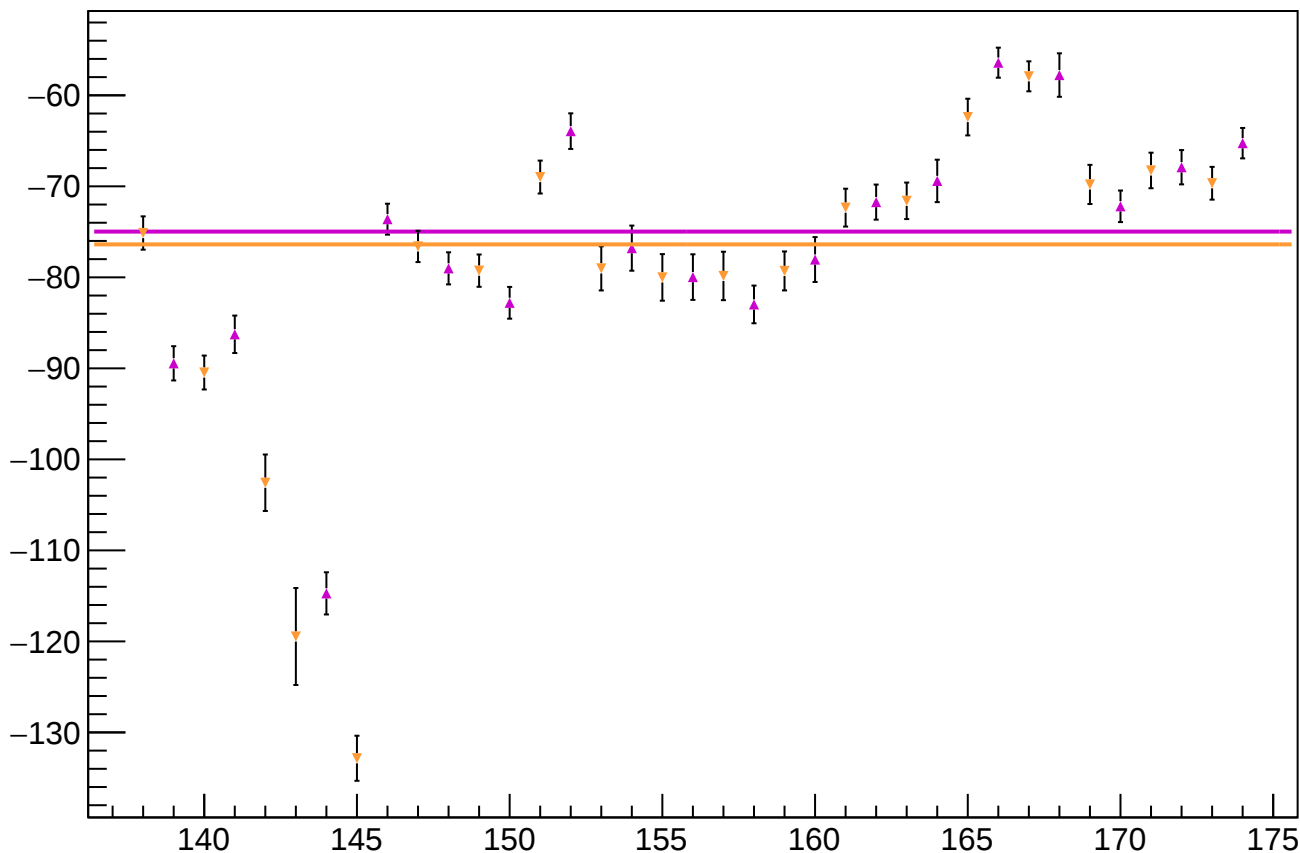
Right:  $-0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 14857.8/34

In:  $0.126 \pm 0.002$   $\chi^2/\text{NDF}$ : 14331.0/34

Out:  $0.114 \pm 0.002$   $\chi^2/\text{NDF}$ : 16512.0/36

All:  $0.120 \pm 0.002$   $\chi^2/\text{NDF}$ : 30857.6/71

reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



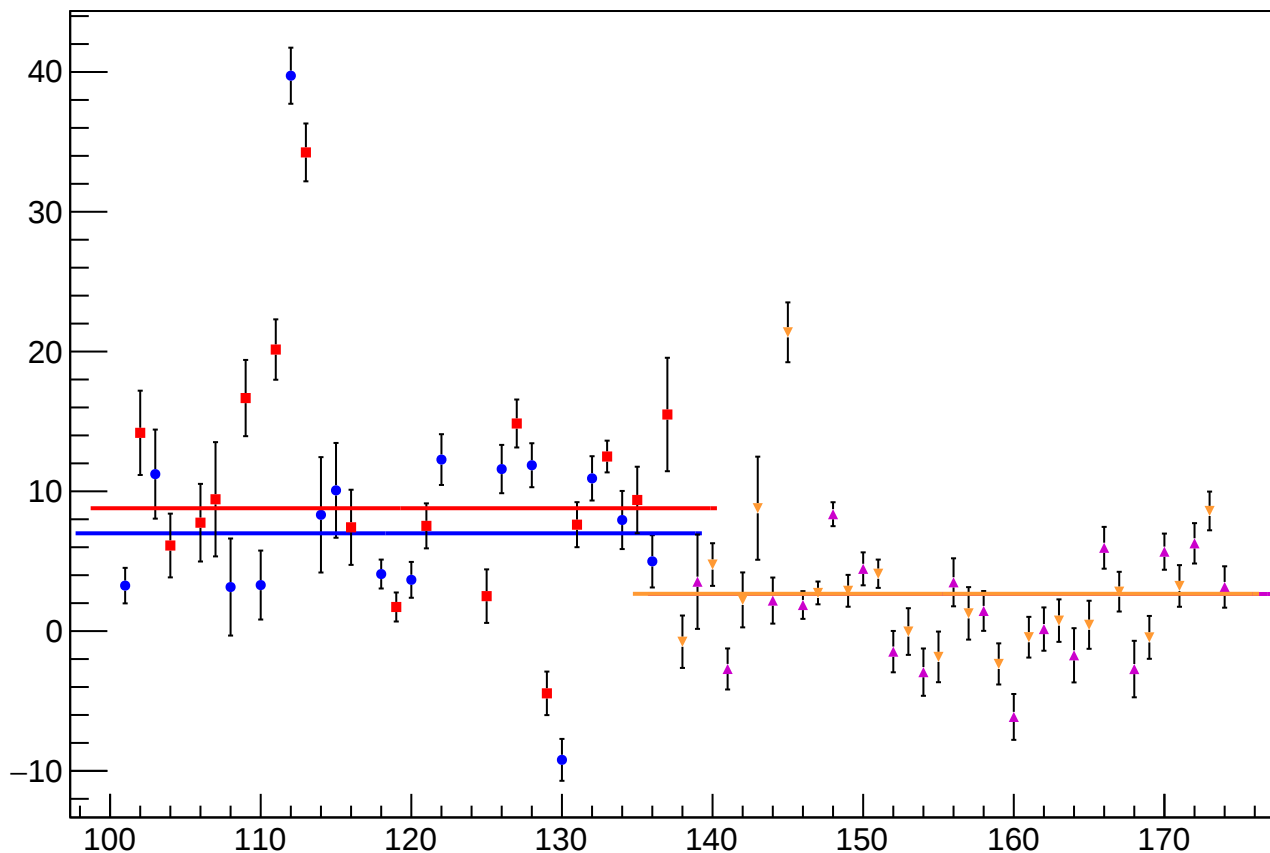
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-76.379 \pm 0.476$   $\chi^2/\text{NDF}: 964.3/18$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-74.974 \pm 0.464$   $\chi^2/\text{NDF}: 699.6/17$

Left:  $-75.658 \pm 0.332$   $\chi^2/\text{NDF}: 1668.4/36$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-74.974 \pm 0.464$   $\chi^2/\text{NDF}: 699.6/17$   
 Out:  $-76.379 \pm 0.476$   $\chi^2/\text{NDF}: 964.3/18$

All:  $-75.658 \pm 0.332$   $\chi^2/\text{NDF}: 1668.4/36$

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $6.996 \pm 0.434$   $\chi^2/\text{NDF}$ : 445.3/15

Left Out:  $2.668 \pm 0.332$   $\chi^2/\text{NDF}$ : 137.9/18

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}$ : 348.8/16

Left In:  $2.655 \pm 0.334$   $\chi^2/\text{NDF}$ : 140.9/17

Left:  $2.662 \pm 0.236$   $\chi^2/\text{NDF}$ : 278.8/36

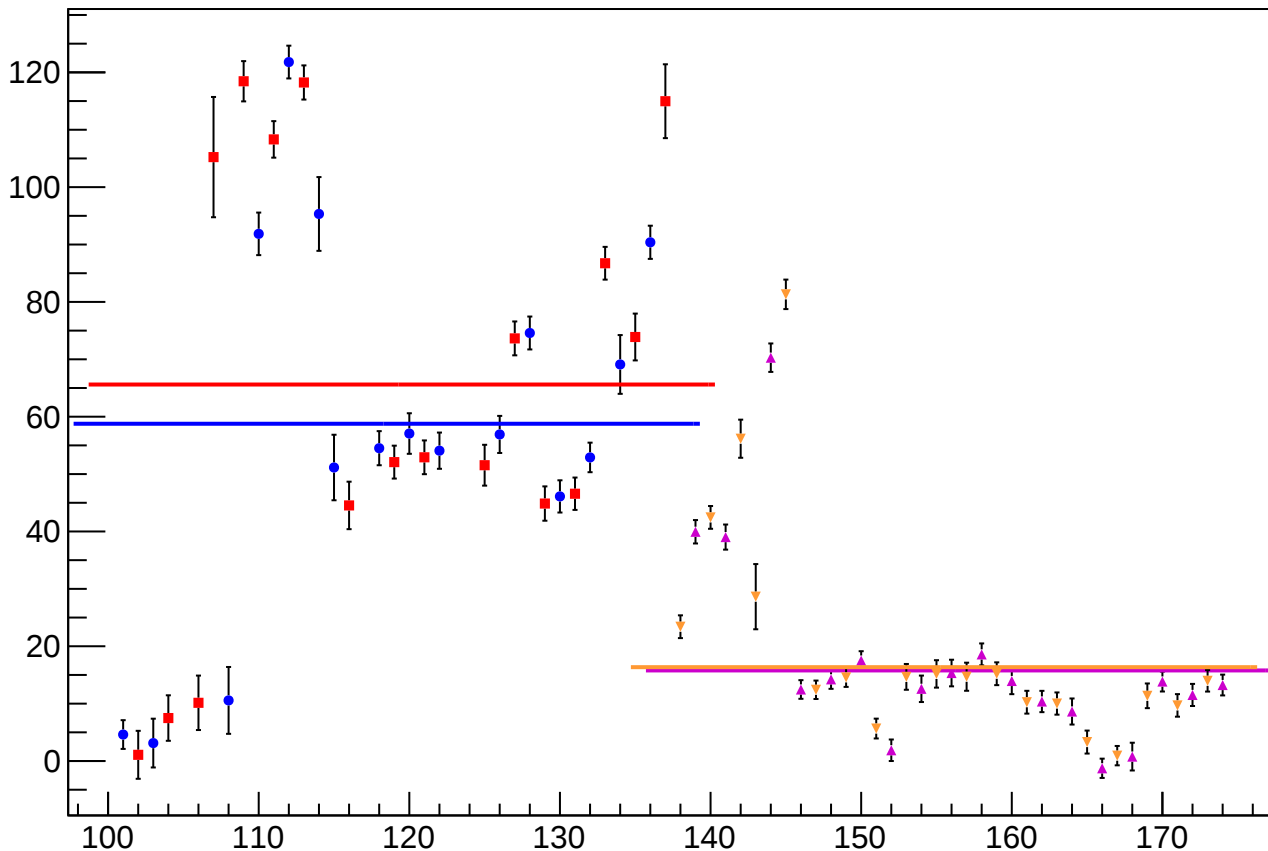
Right:  $7.862 \pm 0.312$   $\chi^2/\text{NDF}$ : 802.4/32

In:  $4.272 \pm 0.265$   $\chi^2/\text{NDF}$ : 649.0/33

Out:  $4.831 \pm 0.267$   $\chi^2/\text{NDF}$ : 606.7/35

All:  $4.549 \pm 0.188$   $\chi^2/\text{NDF}$ : 1257.9/69

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $58.770 \pm 0.833$   $\chi^2/\text{NDF}$ : 1493.3/15

Left Out:  $16.354 \pm 0.469$   $\chi^2/\text{NDF}$ : 1185.3/18

Right Out:  $65.606 \pm 0.845$   $\chi^2/\text{NDF}$ : 1625.3/16

Left In:  $15.786 \pm 0.458$   $\chi^2/\text{NDF}$ : 971.0/17

Left:  $16.063 \pm 0.328$   $\chi^2/\text{NDF}$ : 2157.0/36

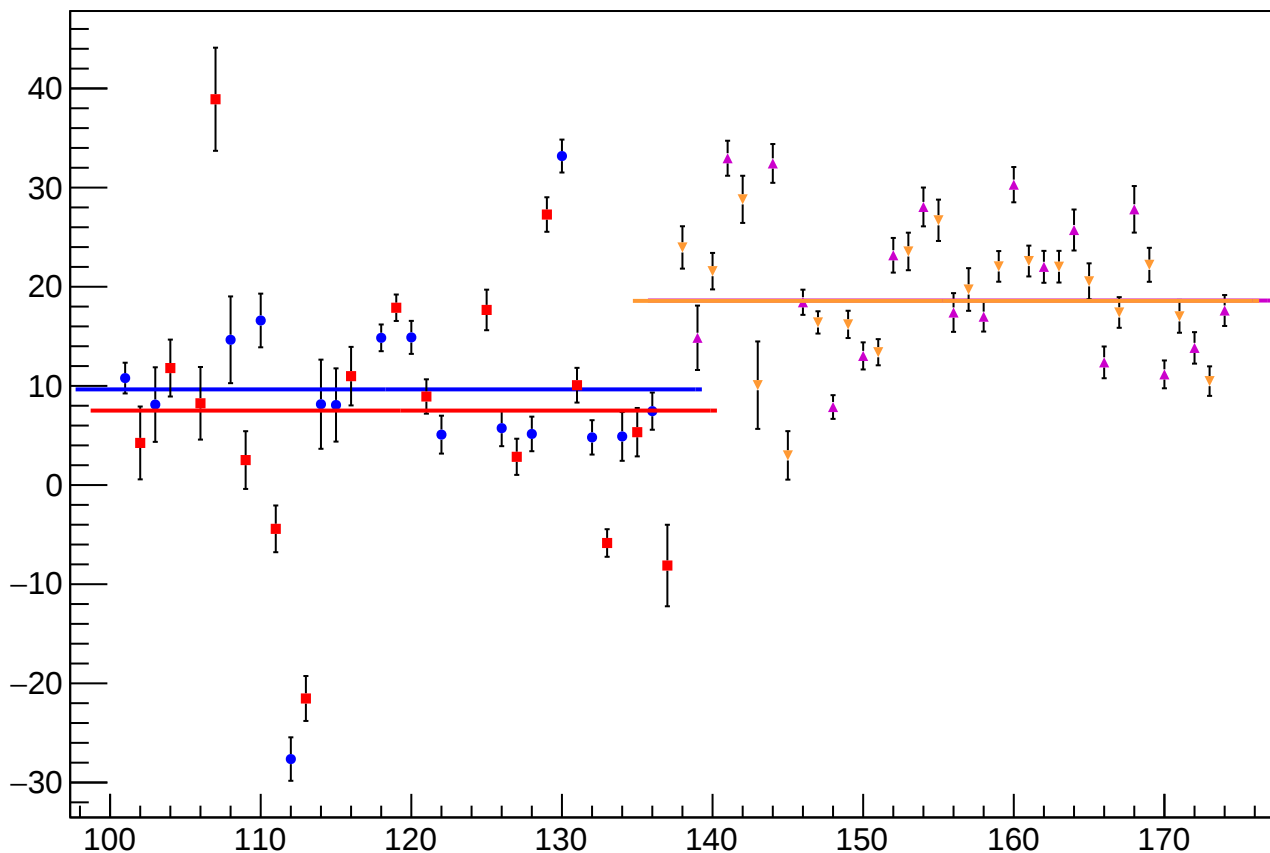
Right:  $62.140 \pm 0.593$   $\chi^2/\text{NDF}$ : 3151.9/32

In:  $25.762 \pm 0.401$   $\chi^2/\text{NDF}$ : 4509.5/33

Out:  $27.968 \pm 0.410$   $\chi^2/\text{NDF}$ : 5408.5/35

All:  $26.841 \pm 0.287$   $\chi^2/\text{NDF}$ : 9932.7/69

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:  $18.575 \pm 0.388$   $\chi^2/\text{NDF}: 169.5/18$

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}: 564.3/16$

Left In:  $18.609 \pm 0.388$   $\chi^2/\text{NDF}: 373.8/17$

Left:  $18.592 \pm 0.274$   $\chi^2/\text{NDF}: 543.3/36$

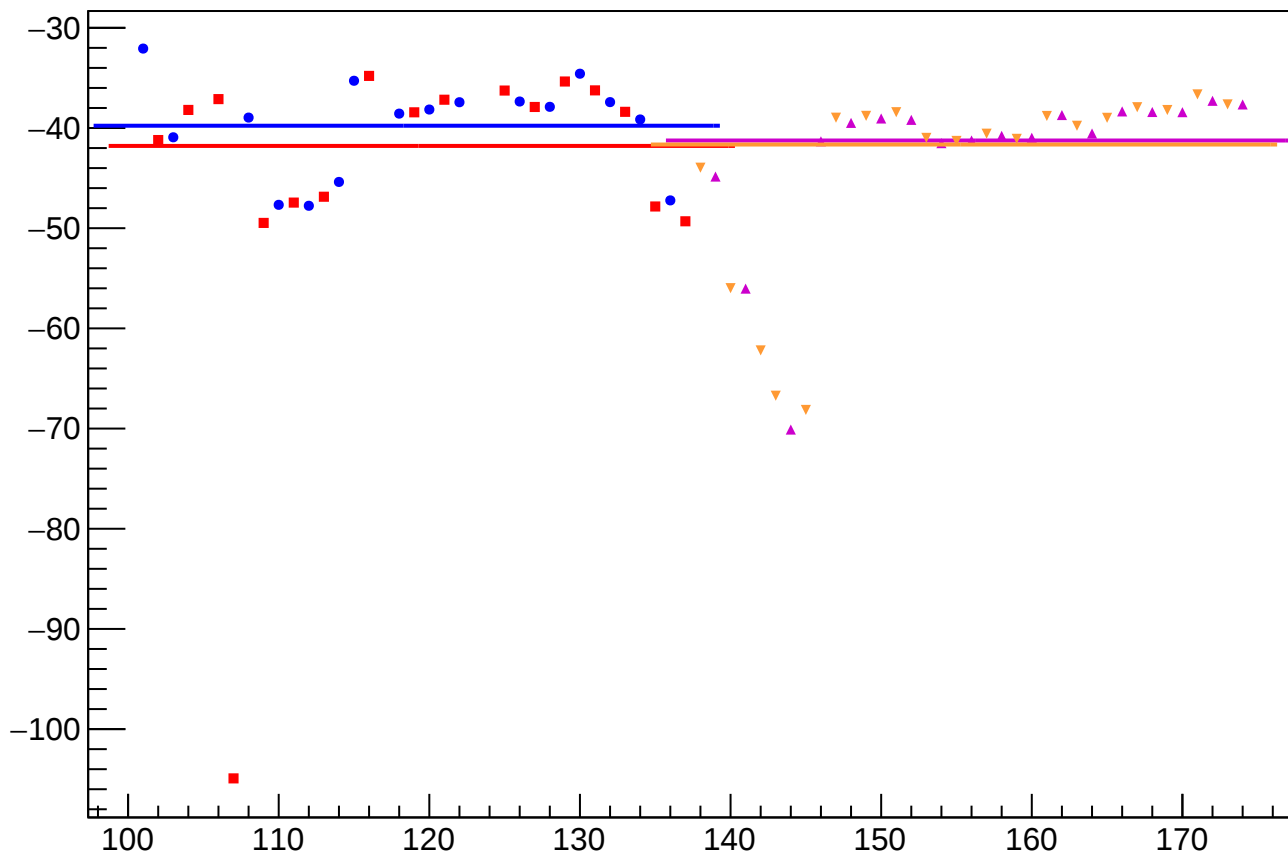
Right:  $8.610 \pm 0.360$   $\chi^2/\text{NDF}: 1126.7/32$

In:  $15.259 \pm 0.307$   $\chi^2/\text{NDF}: 1126.9/33$

Out:  $14.579 \pm 0.310$   $\chi^2/\text{NDF}: 1027.0/35$

All:  $14.923 \pm 0.218$   $\chi^2/\text{NDF}: 2156.3/69$

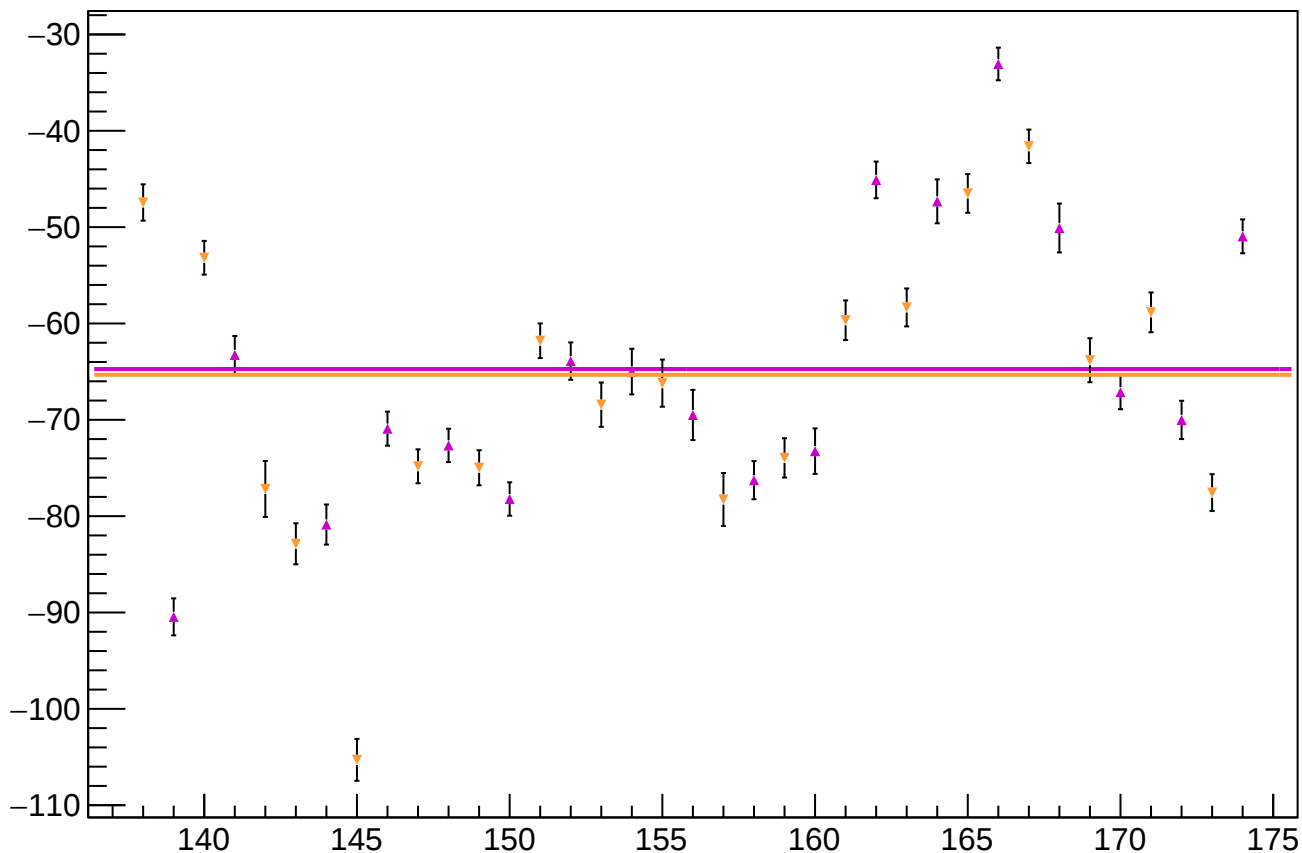
reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15  
 Left Out:  $-41.648 \pm 0.018$   $\chi^2/\text{NDF}$ : 153494.8/18  
 Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16  
 Left In:  $-41.246 \pm 0.018$   $\chi^2/\text{NDF}$ : 115349.0/17

Left:  $-41.441 \pm 0.013$   $\chi^2/\text{NDF}$ : 269089.0/36  
 Right:  $-40.769 \pm 0.022$   $\chi^2/\text{NDF}$ : 121265.0/32  
 In:  $-40.880 \pm 0.015$   $\chi^2/\text{NDF}$ : 143215.9/33  
 Out:  $-41.683 \pm 0.016$   $\chi^2/\text{NDF}$ : 246518.0/35  
 All:  $-41.272 \pm 0.011$   $\chi^2/\text{NDF}$ : 391045.3/69

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: -65.328+/-0.466  $\chi^2/\text{NDF}$ :1009.4/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -64.729+/-0.464  $\chi^2/\text{NDF}$ :1002.4/17

Left: -65.027+/-0.329  $\chi^2/\text{NDF}$ : 2012.6/36

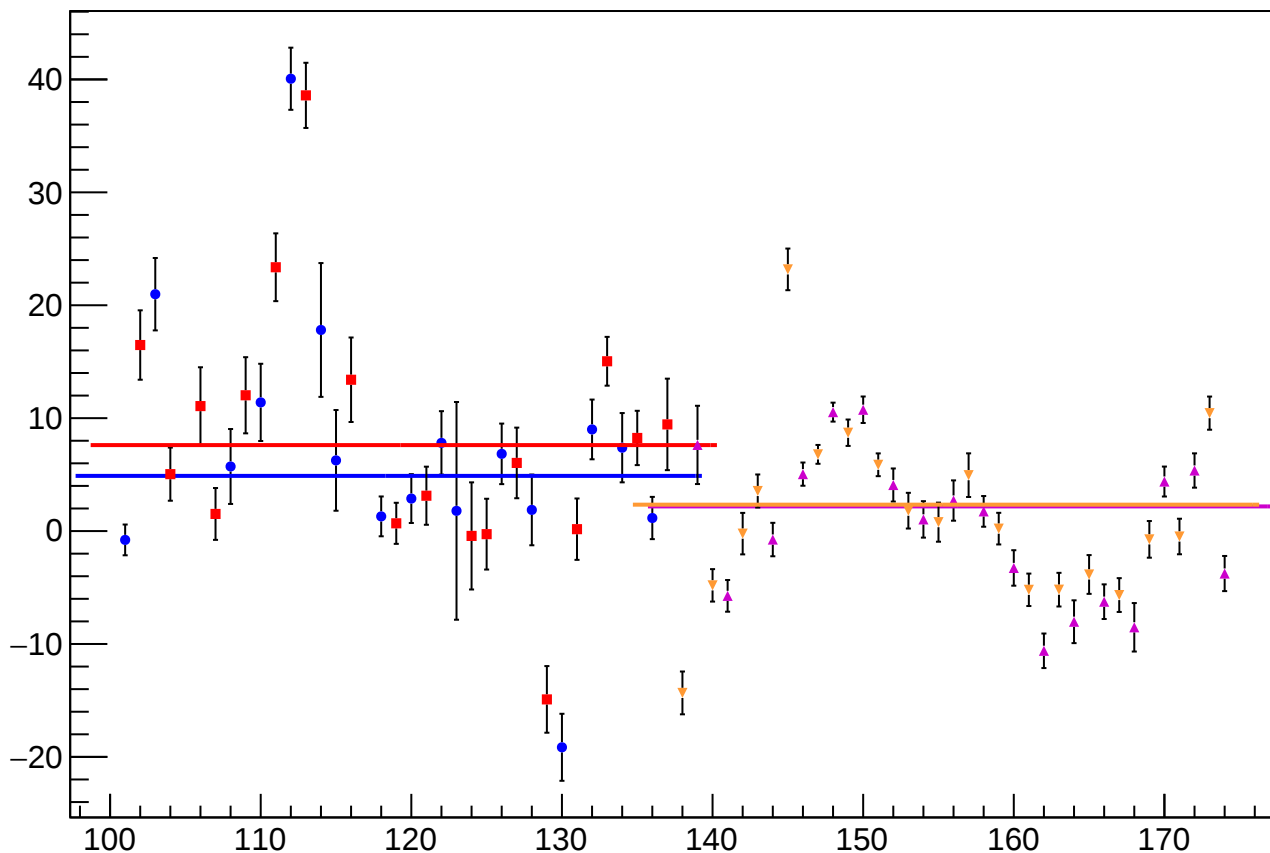
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -64.729+/-0.464  $\chi^2/\text{NDF}$ :1002.4/17

Out: -65.328+/-0.466  $\chi^2/\text{NDF}$ :1009.4/18

All: -65.027+/-0.329  $\chi^2/\text{NDF}$ : 2012.6/36

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:  $2.339 \pm 0.325$   $\chi^2/\text{NDF}$ : 439.7/18

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

Left In:  $2.183 \pm 0.333$   $\chi^2/\text{NDF}$ : 388.5/17

Left:  $2.263 \pm 0.233$   $\chi^2/\text{NDF}$ : 828.3/36

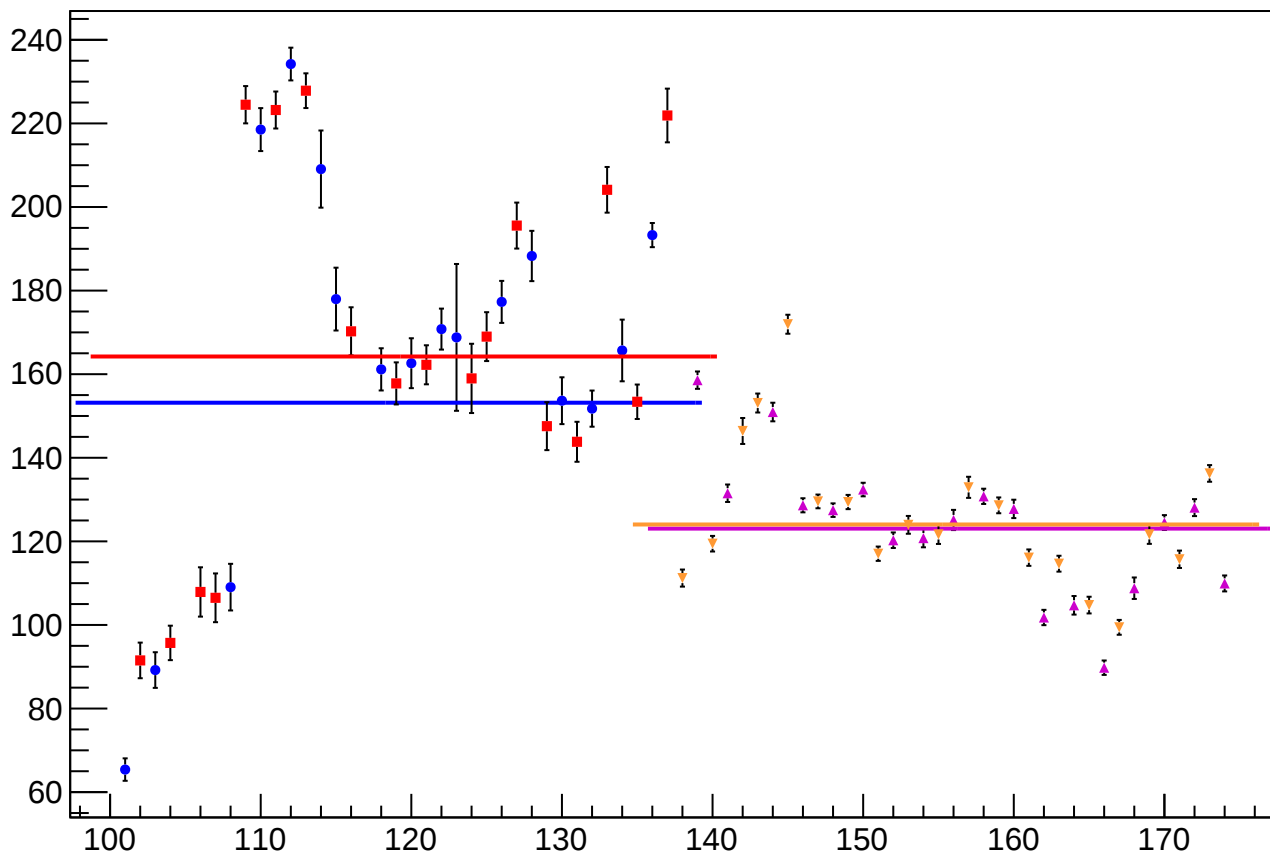
Right:  $6.187 \pm 0.450$   $\chi^2/\text{NDF}$ : 573.1/34

In:  $2.786 \pm 0.294$   $\chi^2/\text{NDF}$ : 697.9/34

Out:  $3.390 \pm 0.291$   $\chi^2/\text{NDF}$ : 761.3/36

All:  $3.091 \pm 0.207$   $\chi^2/\text{NDF}$ : 1461.3/71

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 153.174+/-1.146  $\chi^2/\text{NDF}$ : 2264.3/16

Left Out: 124.038+/-0.461  $\chi^2/\text{NDF}$ :1144.3/18

Right Out: 164.232+/-1.183  $\chi^2/\text{NDF}$ : 1554.8/17

Left In: 123.052+/-0.458  $\chi^2/\text{NDF}$ :1204.3/17

Left: 123.541+/-0.325  $\chi^2/\text{NDF}$ : 2350.9/36

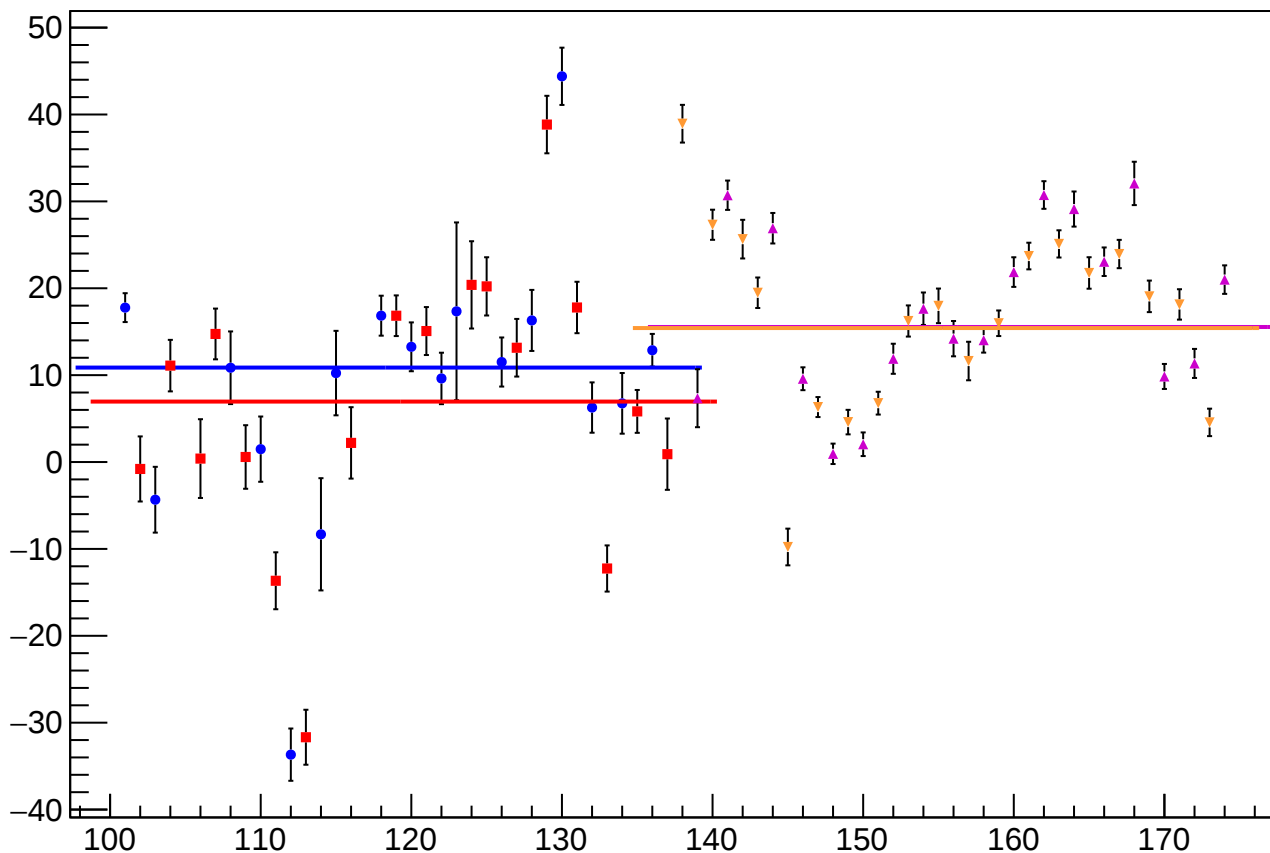
Right: 158.528+/-0.823  $\chi^2/\text{NDF}$ : 3864.1/34

In: 127.196+/-0.425  $\chi^2/\text{NDF}$ :4063.9/34

Out: 129.340+/-0.430  $\chi^2/\text{NDF}$ :3700.9/36

All: 128.257+/-0.302  $\chi^2/\text{NDF}$ : 7777.4/71

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: 15.420 $\pm$ 0.381  $\chi^2$ /NDF: 663.5/18

Right Out: 6.958 $\pm$ 0.749  $\chi^2$ /NDF: 422.3/17

Left In: 15.543 $\pm$ 0.387  $\chi^2$ /NDF: 657.5/17

Left: 15.481 $\pm$ 0.271  $\chi^2$ /NDF: 1321.1/36

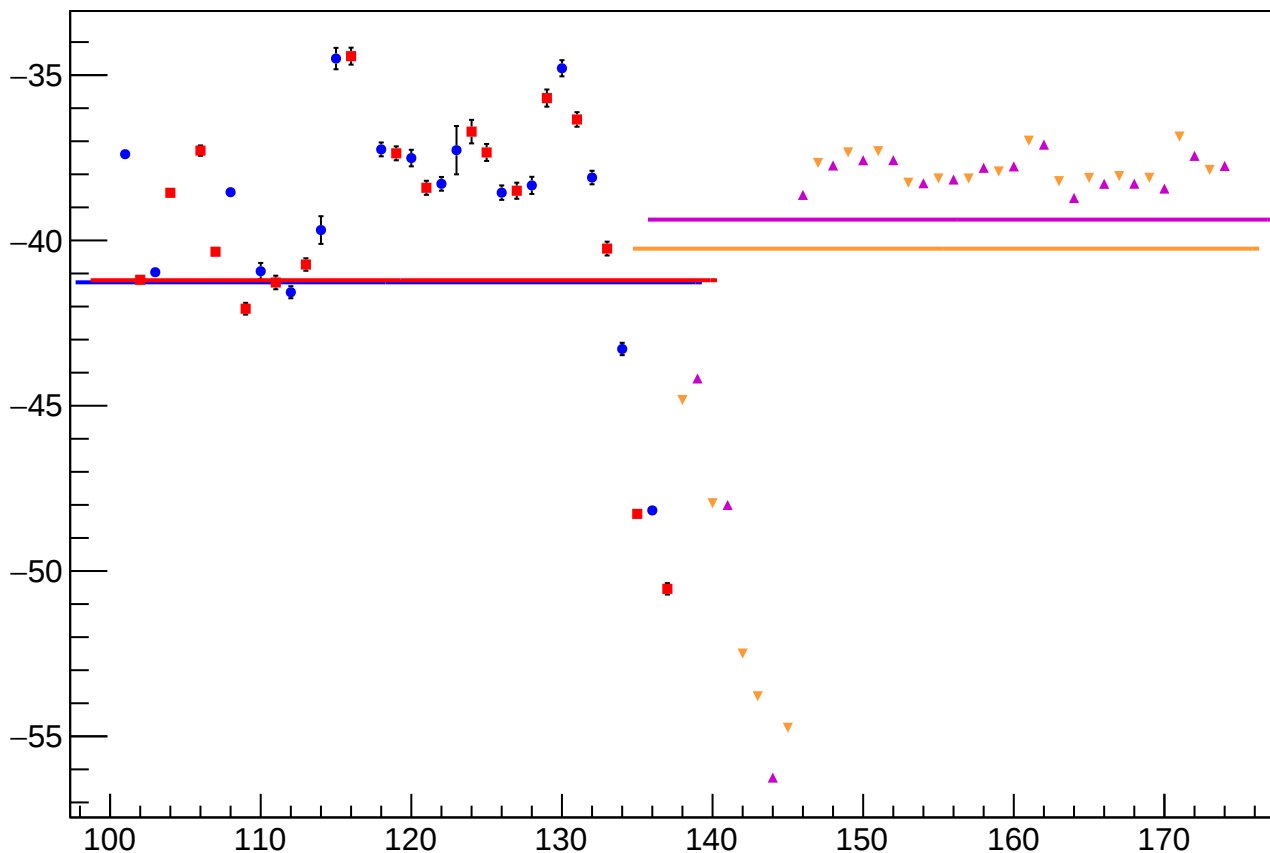
Right: 9.008 $\pm$ 0.517  $\chi^2$ /NDF: 823.3/34

In: 14.485 $\pm$ 0.340  $\chi^2$ /NDF: 1077.3/34

Out: 13.685 $\pm$ 0.339  $\chi^2$ /NDF: 1187.2/36

All: 14.084 $\pm$ 0.240  $\chi^2$ /NDF: 2267.3/71

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}: 12581.8/16$

Left Out:  $-40.249 \pm 0.018$   $\chi^2/\text{NDF}: 85452.1/18$

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}: 12008.6/17$

Left In:  $-39.370 \pm 0.018$   $\chi^2/\text{NDF}: 50913.2/17$

Left:  $-39.804 \pm 0.013$   $\chi^2/\text{NDF}: 137556.8/36$

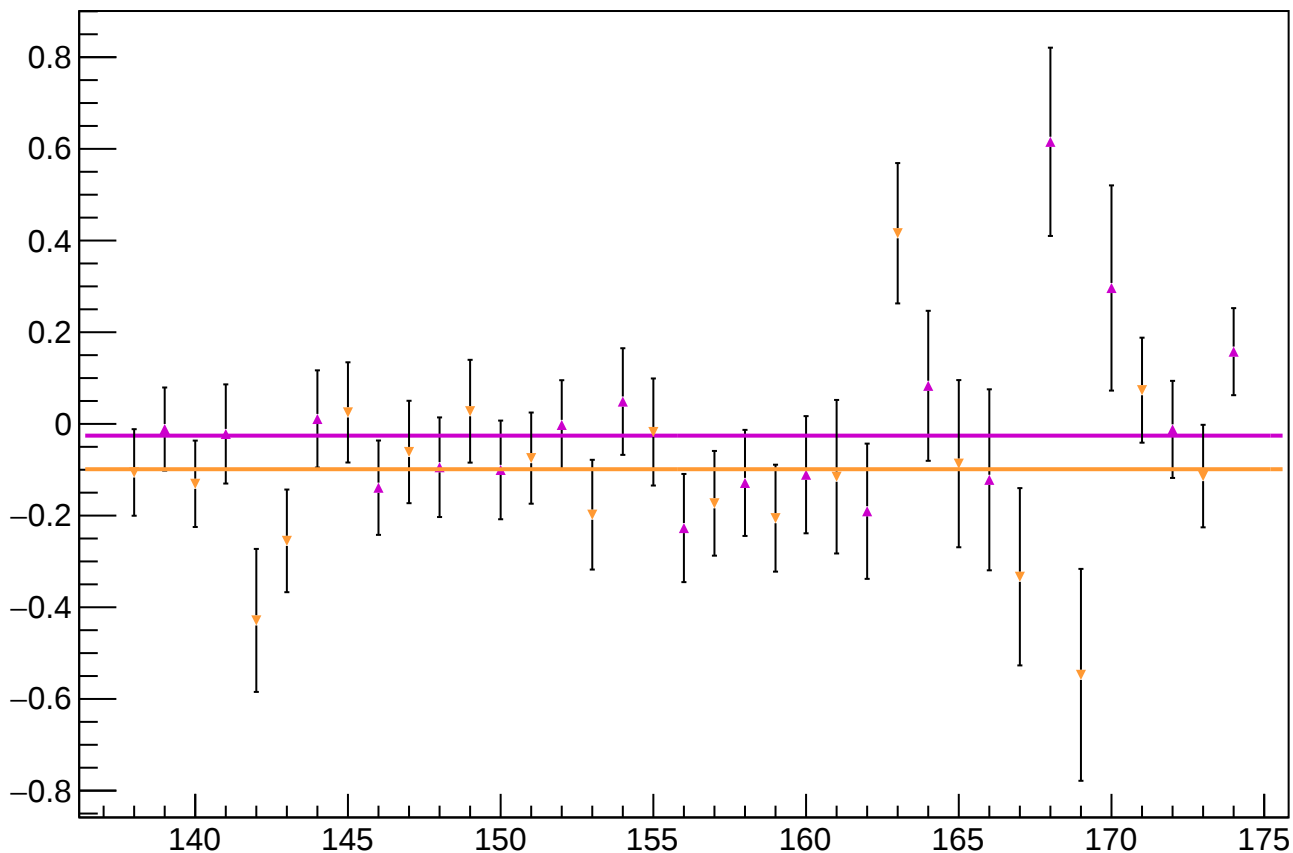
Right:  $-41.236 \pm 0.027$   $\chi^2/\text{NDF}: 24591.7/34$

In:  $-39.707 \pm 0.016$   $\chi^2/\text{NDF}: 65489.6/34$

Out:  $-40.420 \pm 0.016$   $\chi^2/\text{NDF}: 97956.8/36$

All:  $-40.059 \pm 0.012$   $\chi^2/\text{NDF}: 164399.2/71$

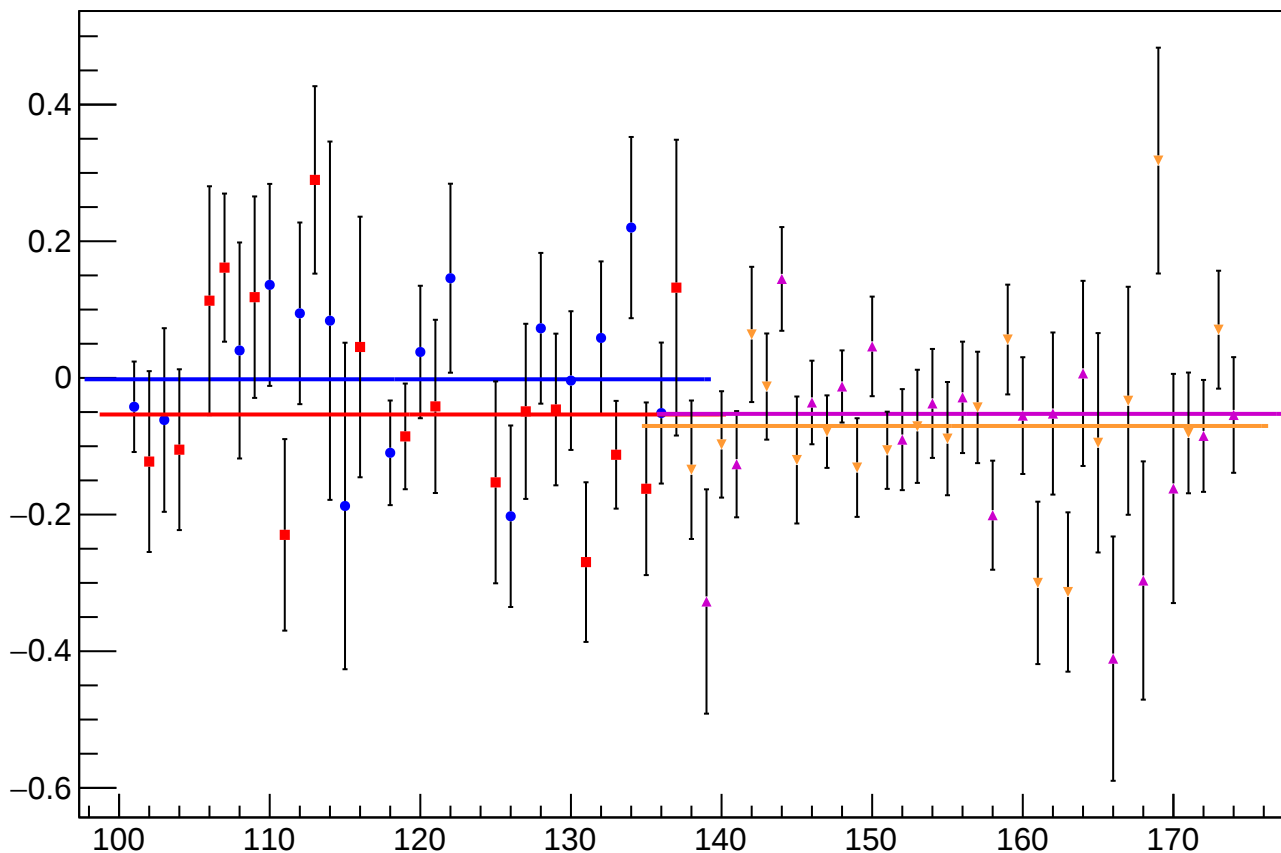
reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.099 $\pm$ 0.028  $\chi^2$ /NDF:30.5/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.026 $\pm$ 0.028  $\chi^2$ /NDF:24.4/17

Left: -0.062 $\pm$ 0.020  $\chi^2$ /NDF: 58.4/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.026 $\pm$ 0.028  $\chi^2$ /NDF:24.4/17  
 Out: -0.099 $\pm$ 0.028  $\chi^2$ /NDF:30.5/18  
 All: -0.062 $\pm$ 0.020  $\chi^2$ /NDF: 58.4/36

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.002 \pm 0.028$   $\chi^2/\text{NDF}$ : 12.1/15

Left Out:  $-0.070 \pm 0.020$   $\chi^2/\text{NDF}$ : 23.3/18

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

Left In:  $-0.053 \pm 0.020$   $\chi^2/\text{NDF}$ : 23.5/17

Left:  $-0.062 \pm 0.014$   $\chi^2/\text{NDF}$ : 47.3/36

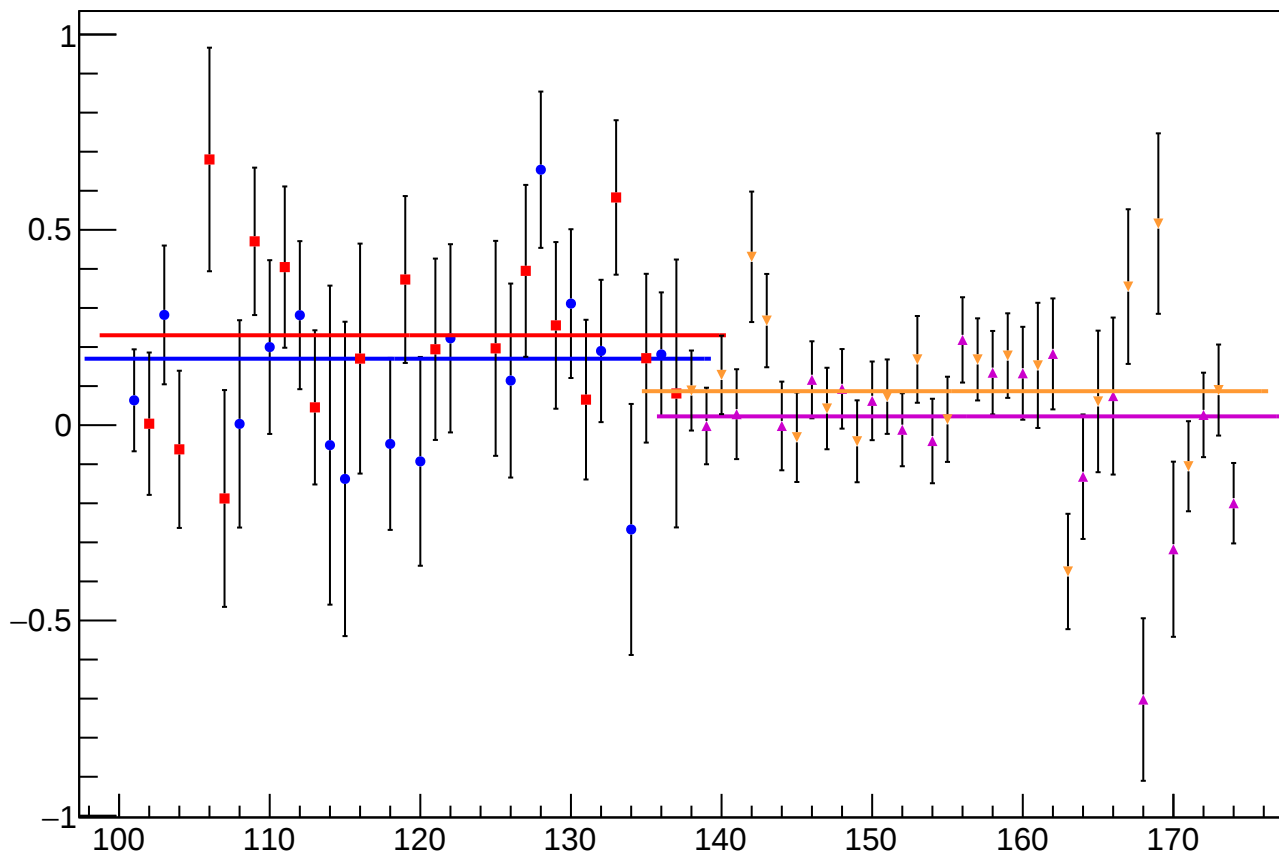
Right:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}$ : 34.6/32

In:  $-0.036 \pm 0.016$   $\chi^2/\text{NDF}$ : 37.8/33

Out:  $-0.065 \pm 0.016$   $\chi^2/\text{NDF}$ : 44.5/35

All:  $-0.051 \pm 0.012$   $\chi^2/\text{NDF}$ : 83.9/69

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:  $0.087 \pm 0.028$   $\chi^2/\text{NDF}$ : 29.8/18

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}$ : 16.8/16

Left In:  $0.022 \pm 0.027$   $\chi^2/\text{NDF}$ : 28.7/17

Left:  $0.055 \pm 0.019$   $\chi^2/\text{NDF}$ : 61.2/36

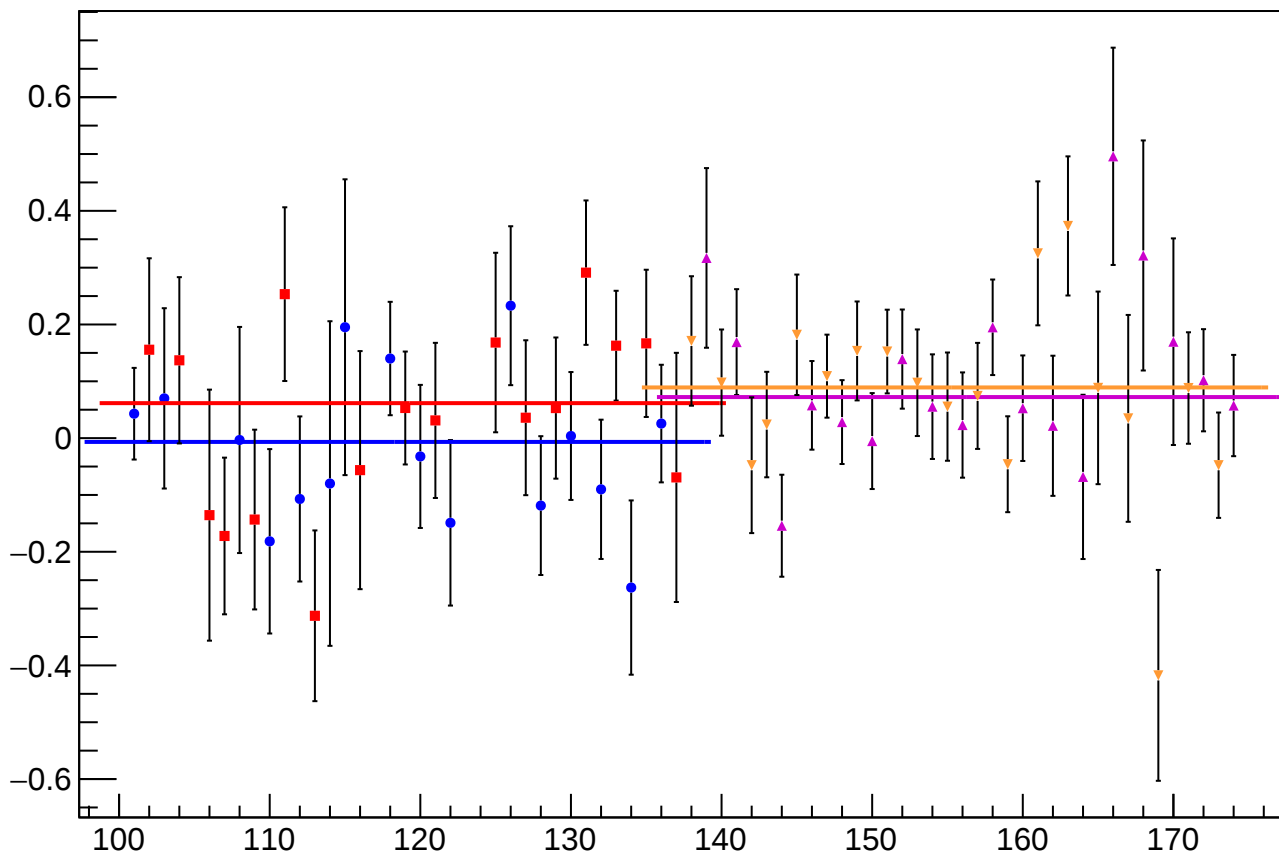
Right:  $0.199 \pm 0.038$   $\chi^2/\text{NDF}$ : 30.5/32

In:  $0.054 \pm 0.024$   $\chi^2/\text{NDF}$ : 47.9/33

Out:  $0.117 \pm 0.025$   $\chi^2/\text{NDF}$ : 52.2/35

All:  $0.085 \pm 0.017$   $\chi^2/\text{NDF}$ : 103.4/69

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: 0.089 $\pm$ 0.023  $\chi^2/\text{NDF}$ :25.8/18

Right Out: 0.062 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 20.0/16

Left In: 0.072 $\pm$ 0.023  $\chi^2/\text{NDF}$ :22.1/17

Left: 0.081 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 48.1/36

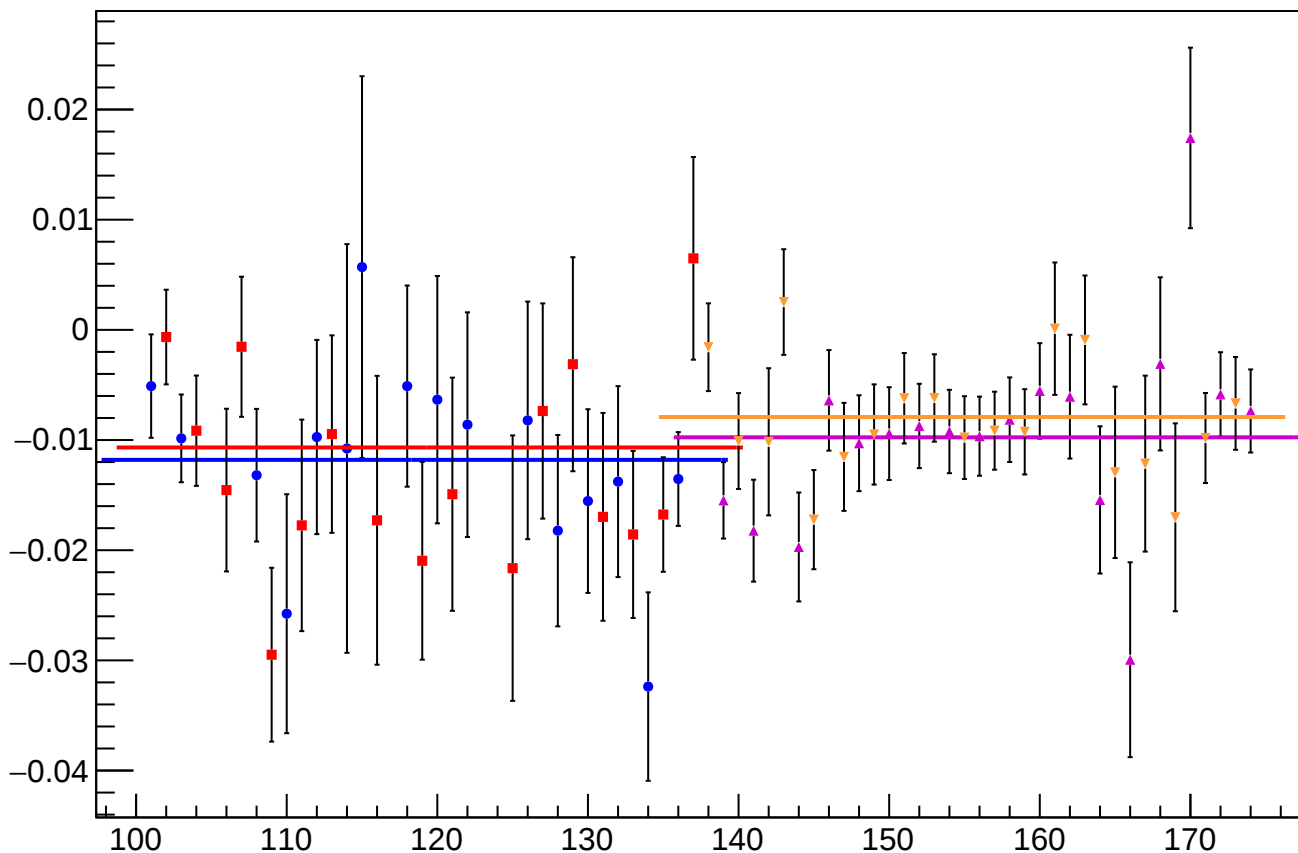
Right: 0.026 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 35.3/32

In: 0.046 $\pm$ 0.019  $\chi^2/\text{NDF}$ :39.2/33

Out: 0.080 $\pm$ 0.019  $\chi^2/\text{NDF}$ :46.2/35

All: 0.063 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 87.1/69

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 18.8/18

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

Left In:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 31.4/17

Left:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 51.7/36

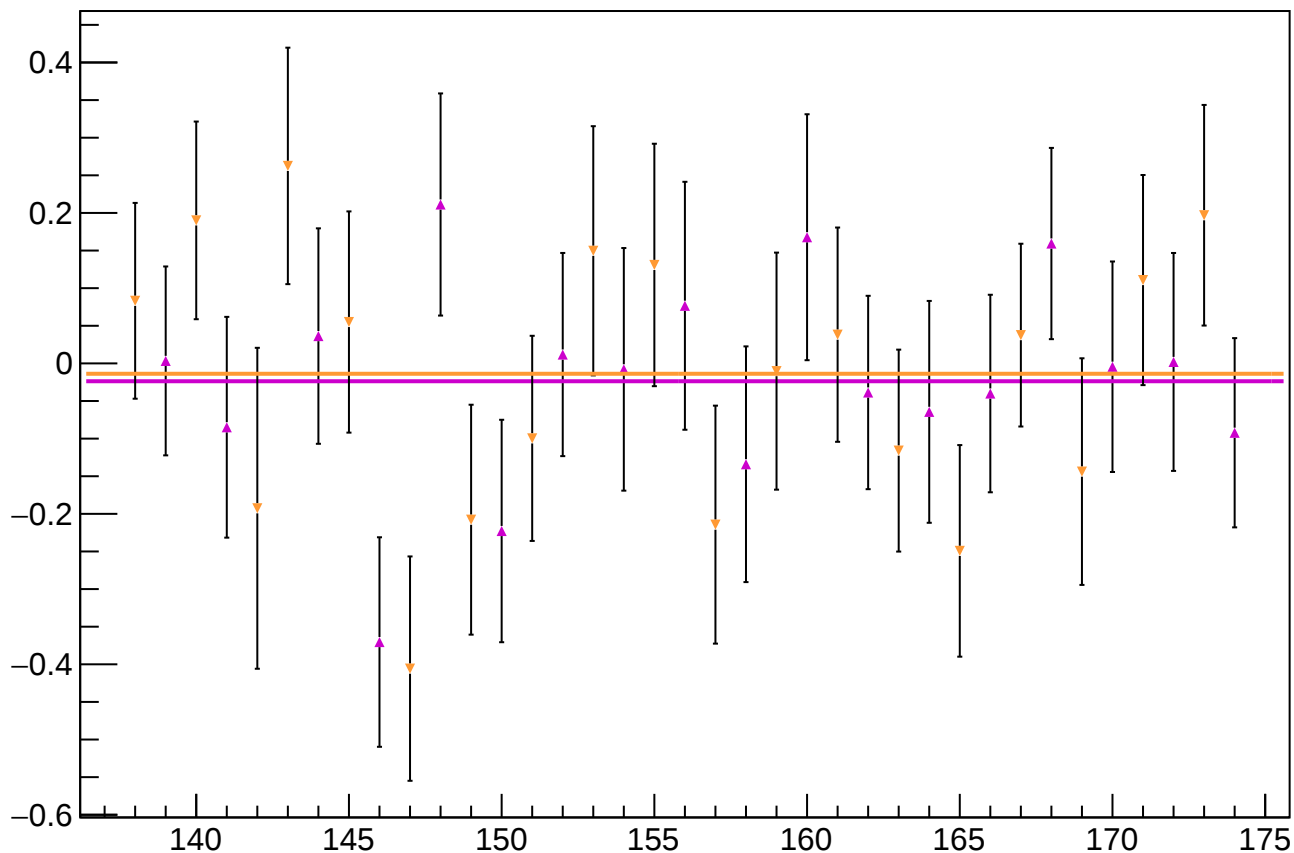
Right:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.8/32

In:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 45.2/33

Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 44.3/35

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 91.2/69

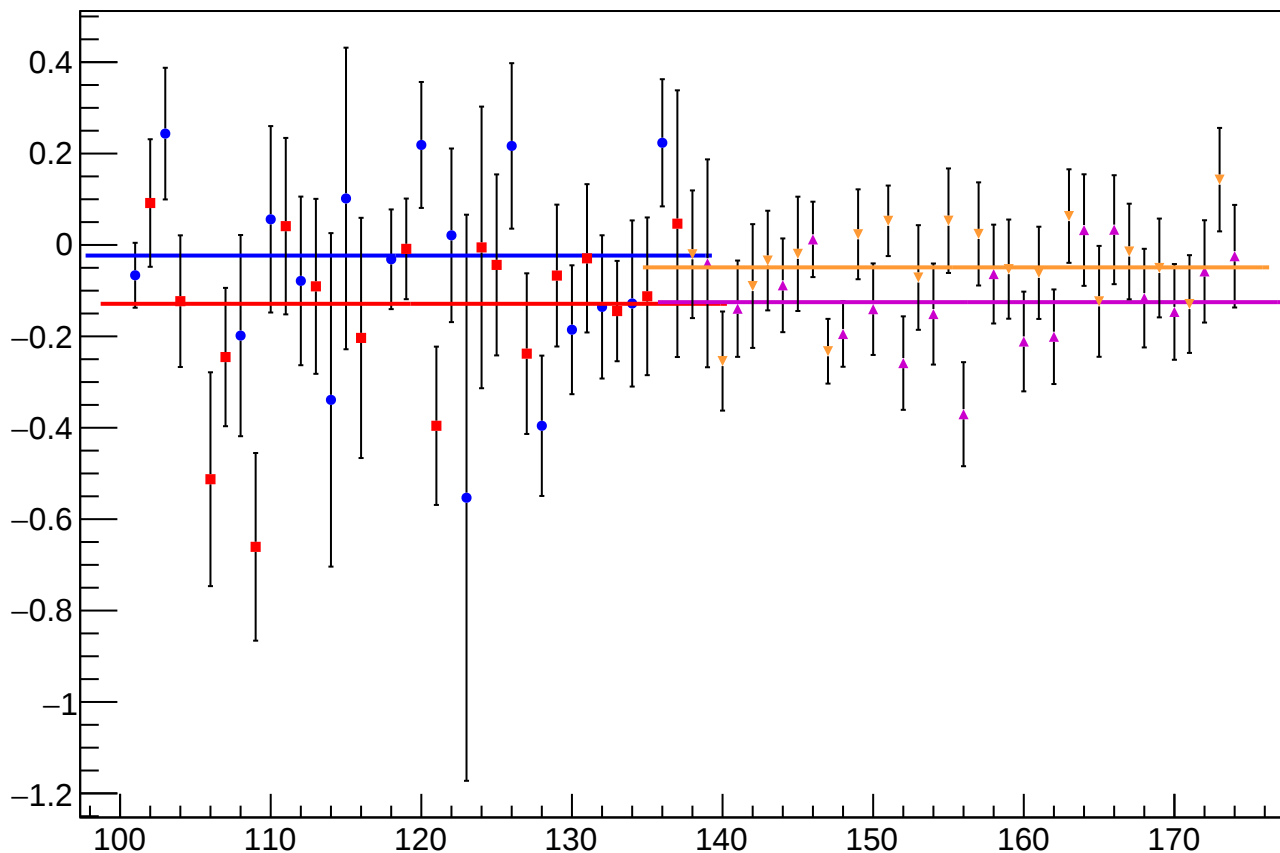
reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.014 $\pm$ 0.034  $\chi^2$ /NDF:26.6/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.024 $\pm$ 0.033  $\chi^2$ /NDF:15.8/17

Left: -0.019 $\pm$ 0.024  $\chi^2$ /NDF: 42.4/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.024 $\pm$ 0.033  $\chi^2$ /NDF:15.8/17  
 Out: -0.014 $\pm$ 0.034  $\chi^2$ /NDF:26.6/18  
 All: -0.019 $\pm$ 0.024  $\chi^2$ /NDF: 42.4/36

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:  $-0.049 \pm 0.024$   $\chi^2/\text{NDF}: 19.2/18$

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}: 18.6/17$

Left In:  $-0.125 \pm 0.025$   $\chi^2/\text{NDF}: 16.6/17$

Left:  $-0.086 \pm 0.017$   $\chi^2/\text{NDF}: 40.6/36$

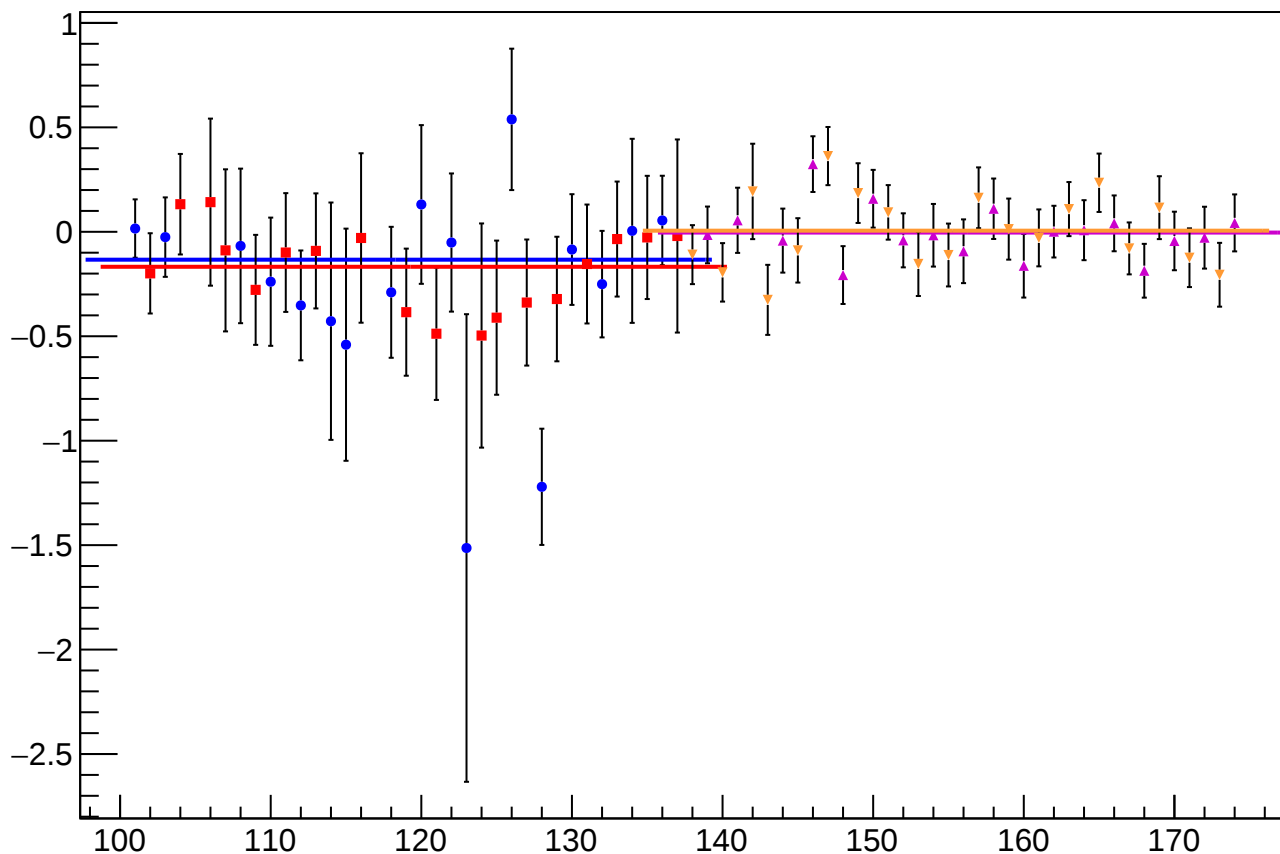
Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}: 44.9/34$

In:  $-0.093 \pm 0.020$   $\chi^2/\text{NDF}: 44.3/34$

Out:  $-0.071 \pm 0.021$   $\chi^2/\text{NDF}: 40.8/36$

All:  $-0.082 \pm 0.014$   $\chi^2/\text{NDF}: 85.7/71$

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:  $0.005 \pm 0.033$   $\chi^2/\text{NDF}$ : 26.3/18

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

Left In:  $-0.004 \pm 0.033$   $\chi^2/\text{NDF}$ : 14.3/17

Left:  $0.001 \pm 0.023$   $\chi^2/\text{NDF}$ : 40.6/36

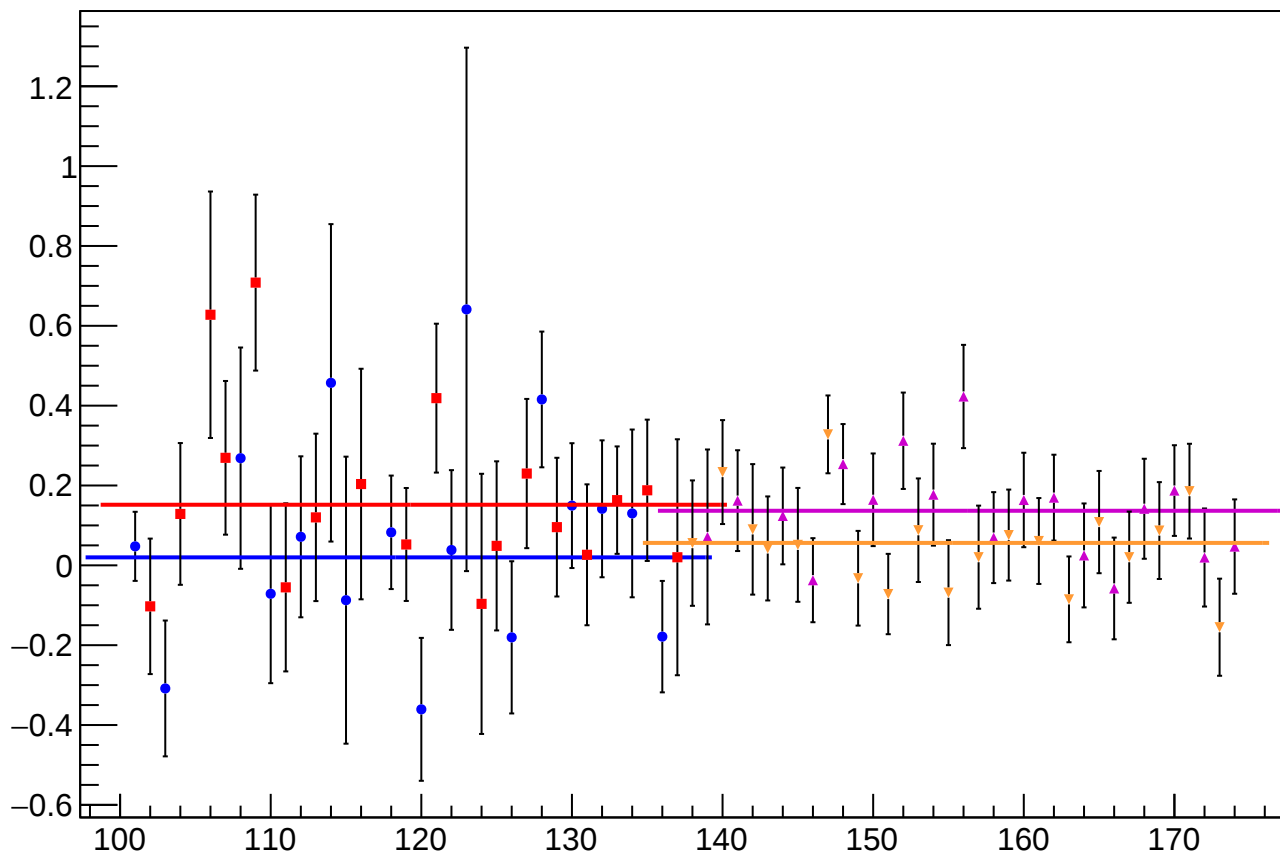
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}$ : 32.0/34

In:  $-0.029 \pm 0.030$   $\chi^2/\text{NDF}$ : 43.1/34

Out:  $-0.026 \pm 0.030$   $\chi^2/\text{NDF}$ : 37.3/36

All:  $-0.027 \pm 0.021$   $\chi^2/\text{NDF}$ : 80.3/71

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:  $0.056 \pm 0.028$   $\chi^2/\text{NDF}: 19.2/18$

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $0.137 \pm 0.028$   $\chi^2/\text{NDF}: 16.6/17$

Left:  $0.096 \pm 0.020$   $\chi^2/\text{NDF}: 39.9/36$

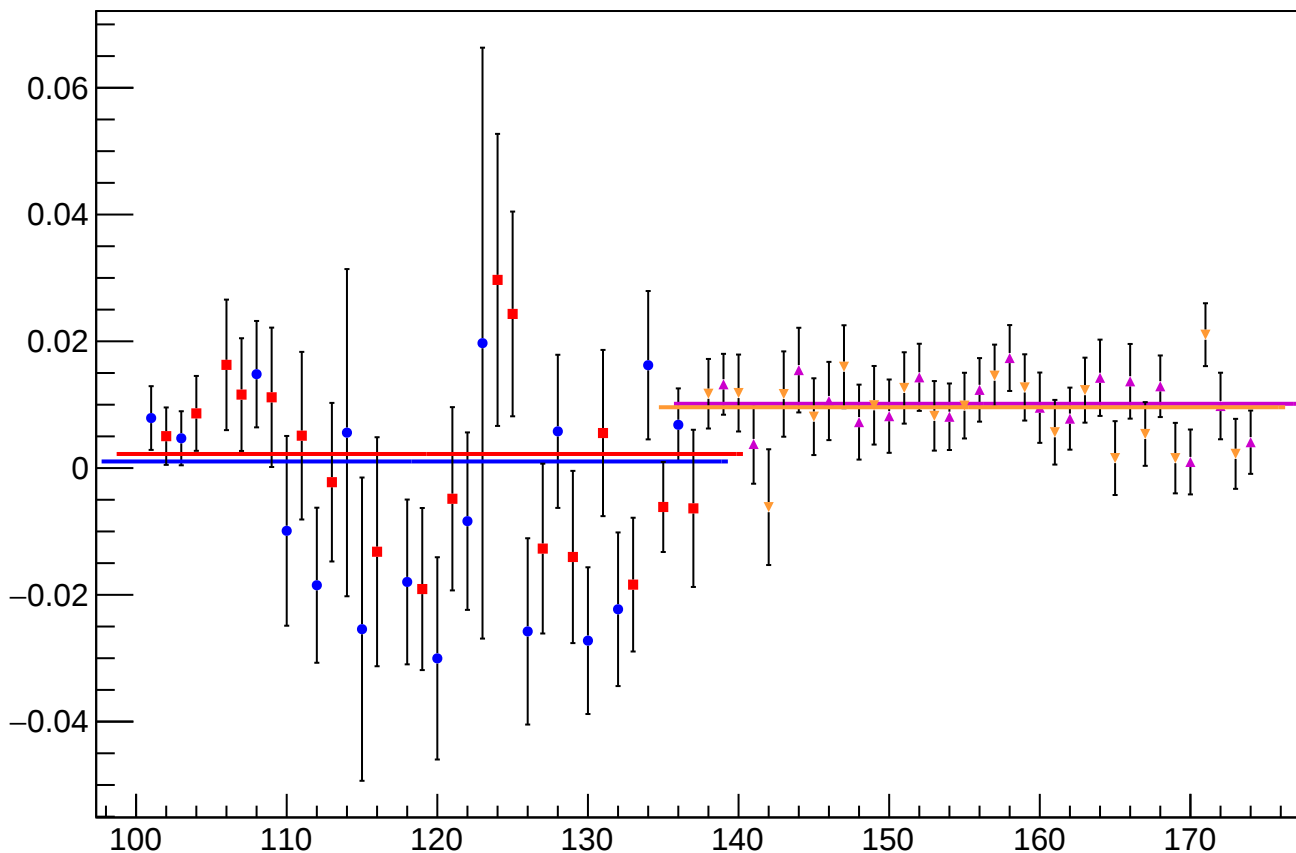
Right:  $0.081 \pm 0.031$   $\chi^2/\text{NDF}: 43.1/34$

In:  $0.100 \pm 0.024$   $\chi^2/\text{NDF}: 43.7/34$

Out:  $0.082 \pm 0.024$   $\chi^2/\text{NDF}: 39.2/36$

All:  $0.091 \pm 0.017$   $\chi^2/\text{NDF}: 83.2/71$

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 $\pm$ 0.001  $\chi^2$ /NDF:18.8/18

Right Out: 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 20.8/17

Left In: 0.010 $\pm$ 0.001  $\chi^2$ /NDF:11.4/17

Left: 0.010 $\pm$ 0.001  $\chi^2$ /NDF: 30.3/36

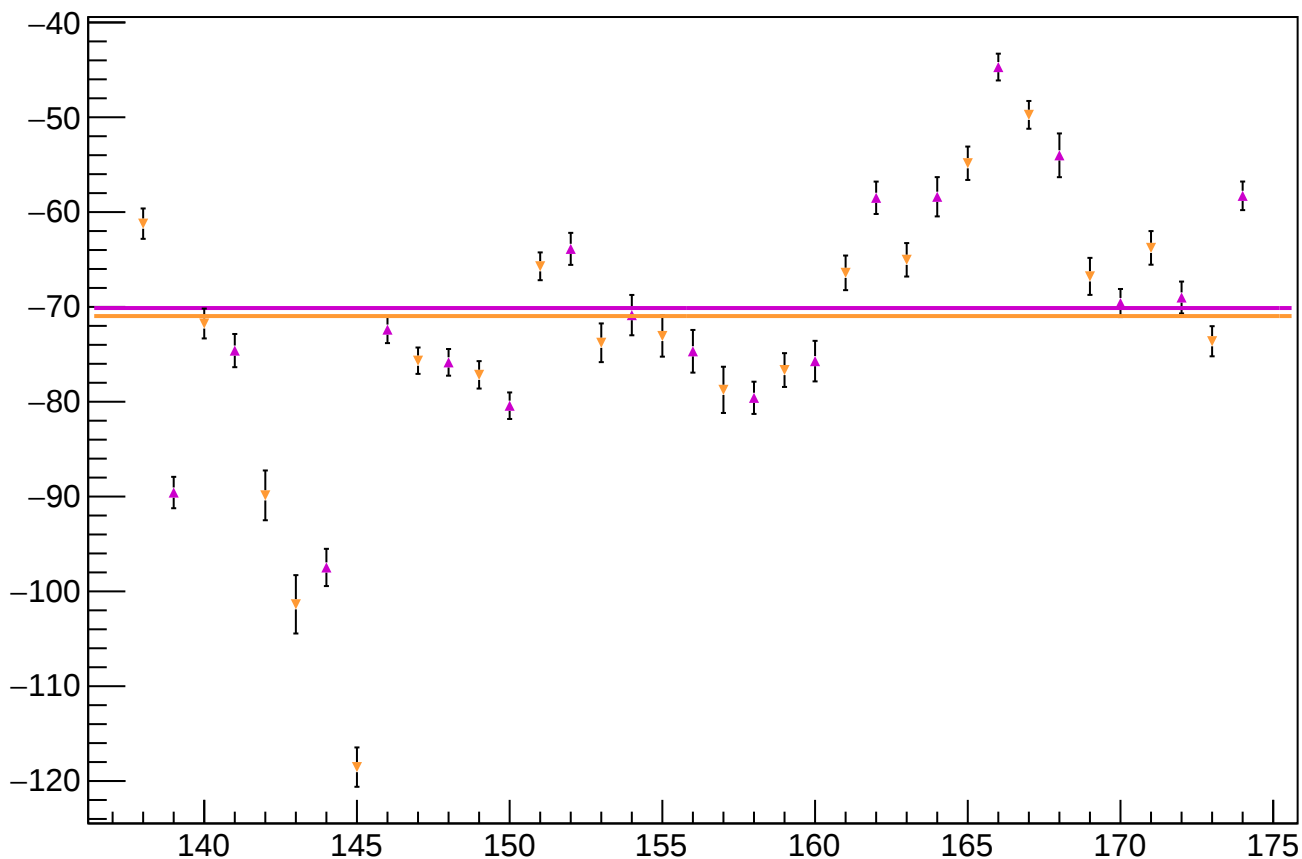
Right: 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 53.0/34

In: 0.008 $\pm$ 0.001  $\chi^2$ /NDF:56.0/34

Out: 0.008 $\pm$ 0.001  $\chi^2$ /NDF:47.5/36

All: 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 103.5/71

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: -70.966+/-0.406  $\chi^2/\text{NDF}$ :1112.7/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -70.119+/-0.398  $\chi^2/\text{NDF}$ :981.1/17

Left: -70.534+/-0.284  $\chi^2/\text{NDF}$ : 2096.0/36

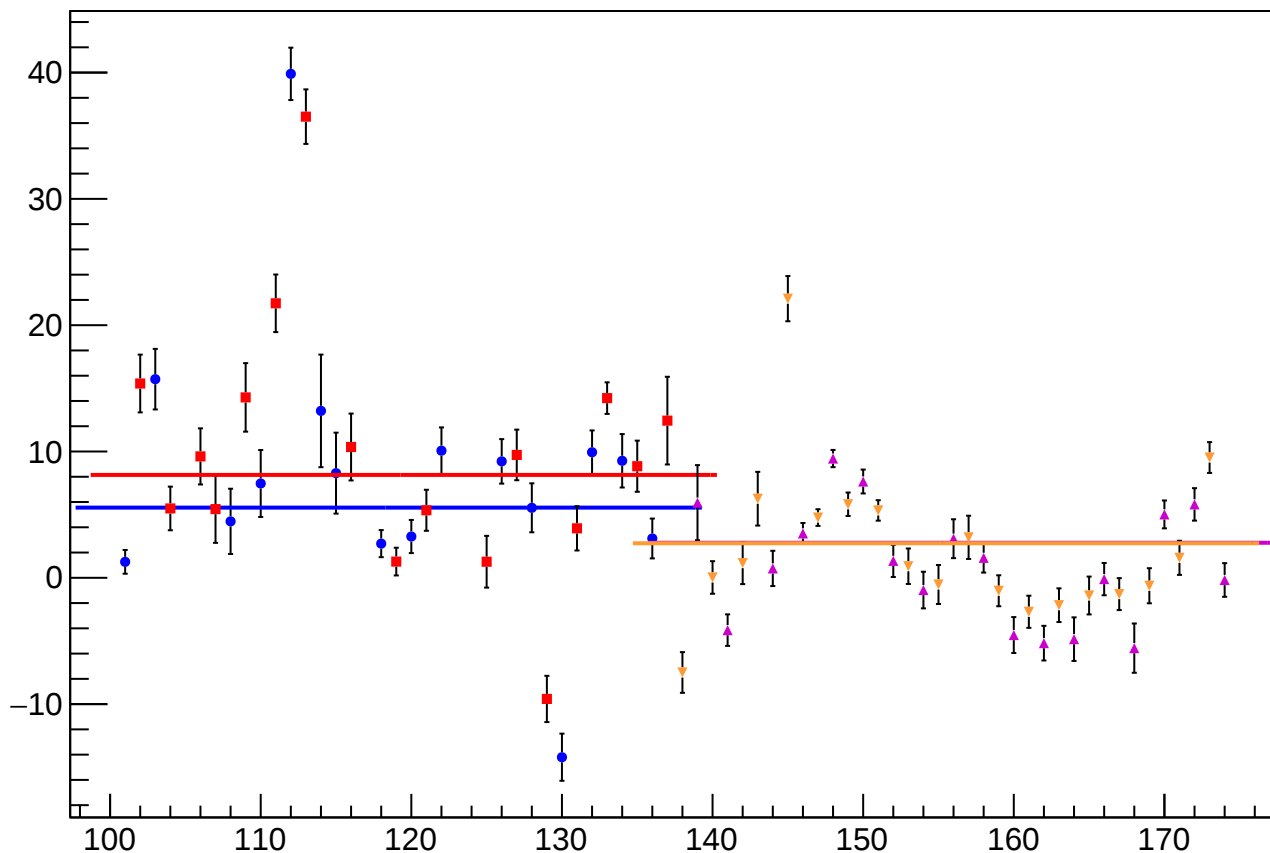
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -70.119+/-0.398  $\chi^2/\text{NDF}$ :981.1/17

Out: -70.966+/-0.406  $\chi^2/\text{NDF}$ :1112.7/18

All: -70.534+/-0.284  $\chi^2/\text{NDF}$ : 2096.0/36

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.557 $\pm$ 0.424  $\chi^2$ /NDF: 462.0/15

Left Out: 2.735 $\pm$ 0.280  $\chi^2$ /NDF:299.2/18

Right Out: 8.146 $\pm$ 0.454  $\chi^2$ /NDF: 406.8/16

Left In: 2.775 $\pm$ 0.283  $\chi^2$ /NDF:283.2/17

Left: 2.755 $\pm$ 0.199  $\chi^2$ /NDF: 582.4/36

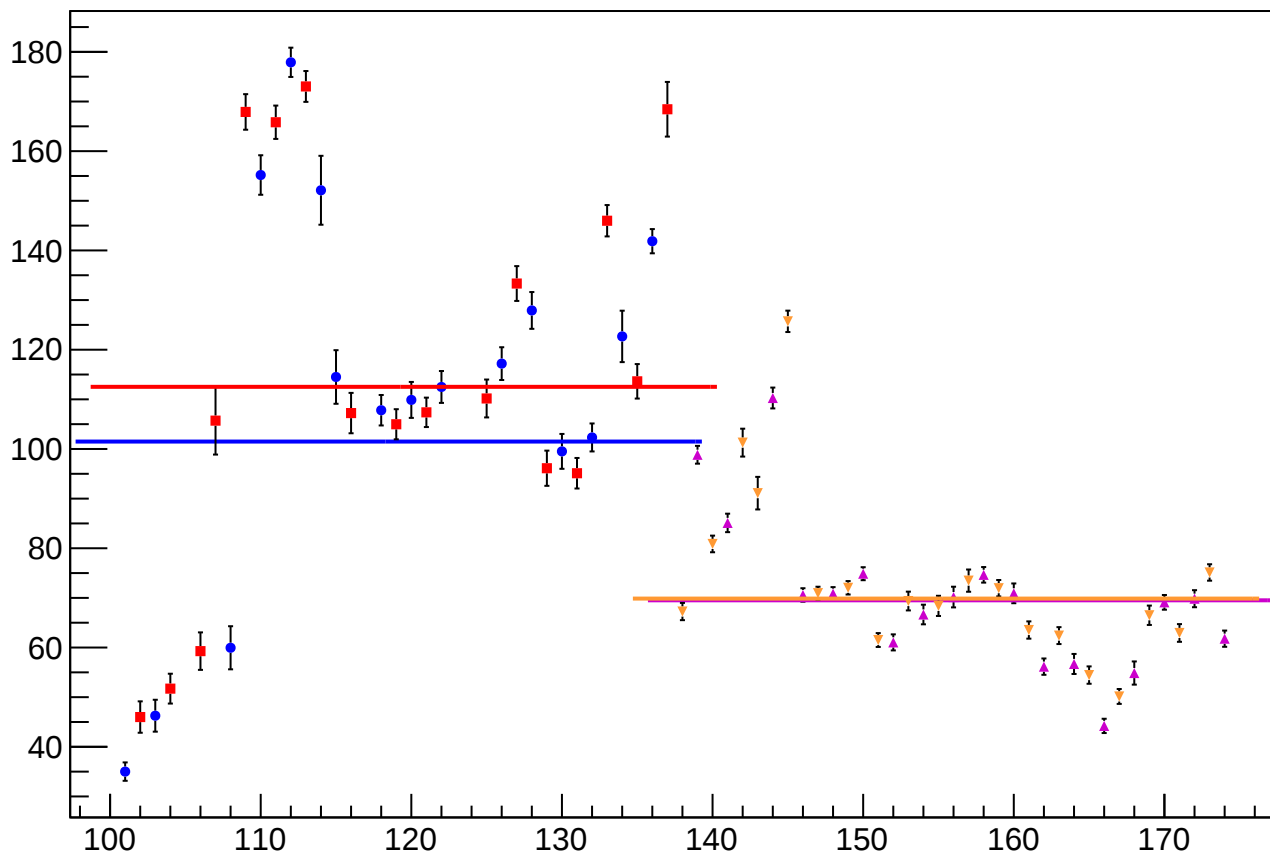
Right: 6.763 $\pm$ 0.310  $\chi^2$ /NDF: 886.1/32

In: 3.633 $\pm$ 0.235  $\chi^2$ /NDF:775.0/33

Out: 4.221 $\pm$ 0.238  $\chi^2$ /NDF:808.8/35

All: 3.924 $\pm$ 0.167  $\chi^2$ /NDF: 1586.9/69

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: 69.862 $\pm$ 0.400  $\chi^2$ /NDF:1239.0/18

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

Left In: 69.513 $\pm$ 0.392  $\chi^2$ /NDF:1251.3/17

Left: 69.684 $\pm$ 0.280  $\chi^2$ /NDF: 2490.7/36

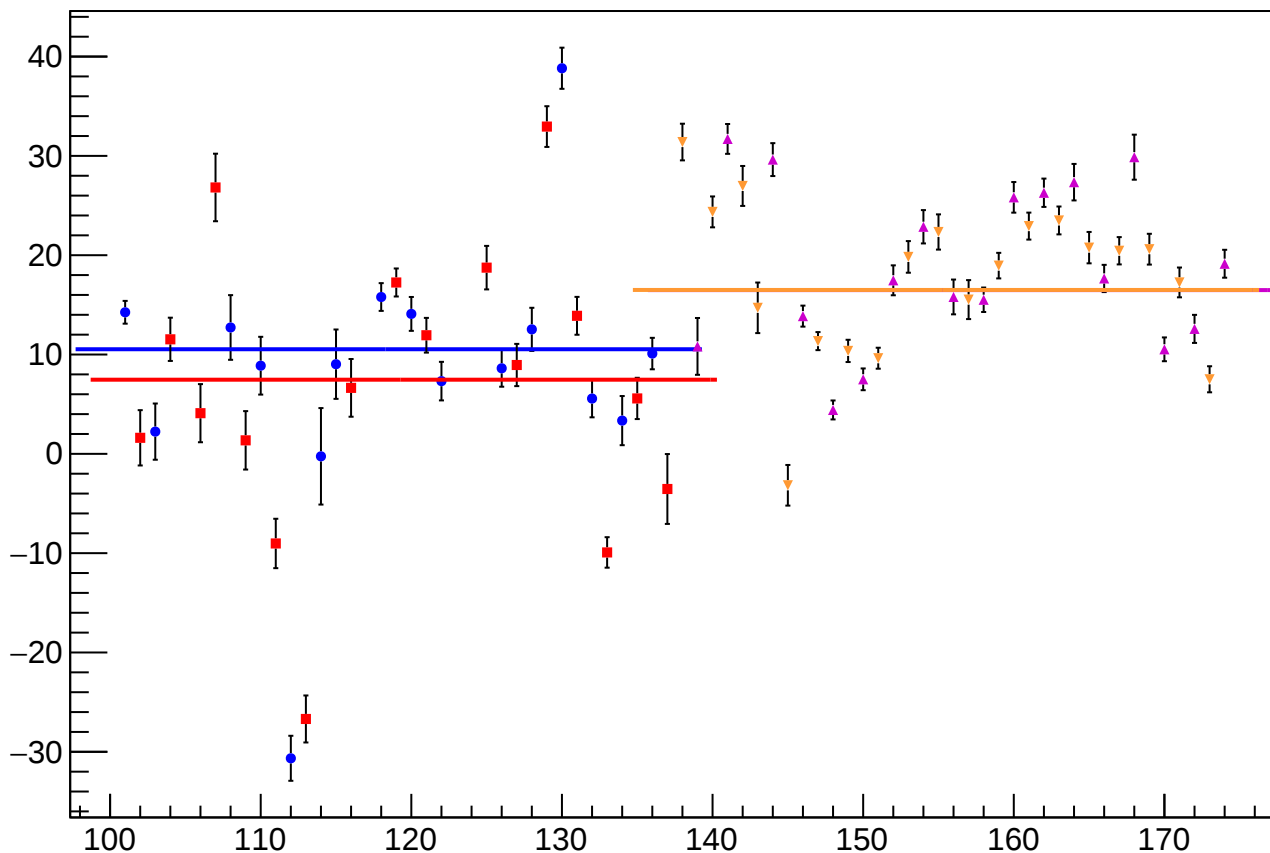
Right: 106.775 $\pm$ 0.583  $\chi^2$ /NDF: 5299.0/32

In: 75.606 $\pm$ 0.353  $\chi^2$ /NDF:5491.8/33

Out: 77.700 $\pm$ 0.361  $\chi^2$ /NDF:5565.2/35

All: 76.627 $\pm$ 0.252  $\chi^2$ /NDF: 11074.2/69

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.532 $\pm$ 0.493  $\chi^2/\text{NDF}$ : 580.3/15

Left Out: 16.501 $\pm$ 0.329  $\chi^2/\text{NDF}$ : 451.2/18

Right Out: 7.466 $\pm$ 0.525  $\chi^2/\text{NDF}$ : 685.0/16

Left In: 16.487 $\pm$ 0.330  $\chi^2/\text{NDF}$ : 609.1/17

Left: 16.494 $\pm$ 0.233  $\chi^2/\text{NDF}$ : 1060.4/36

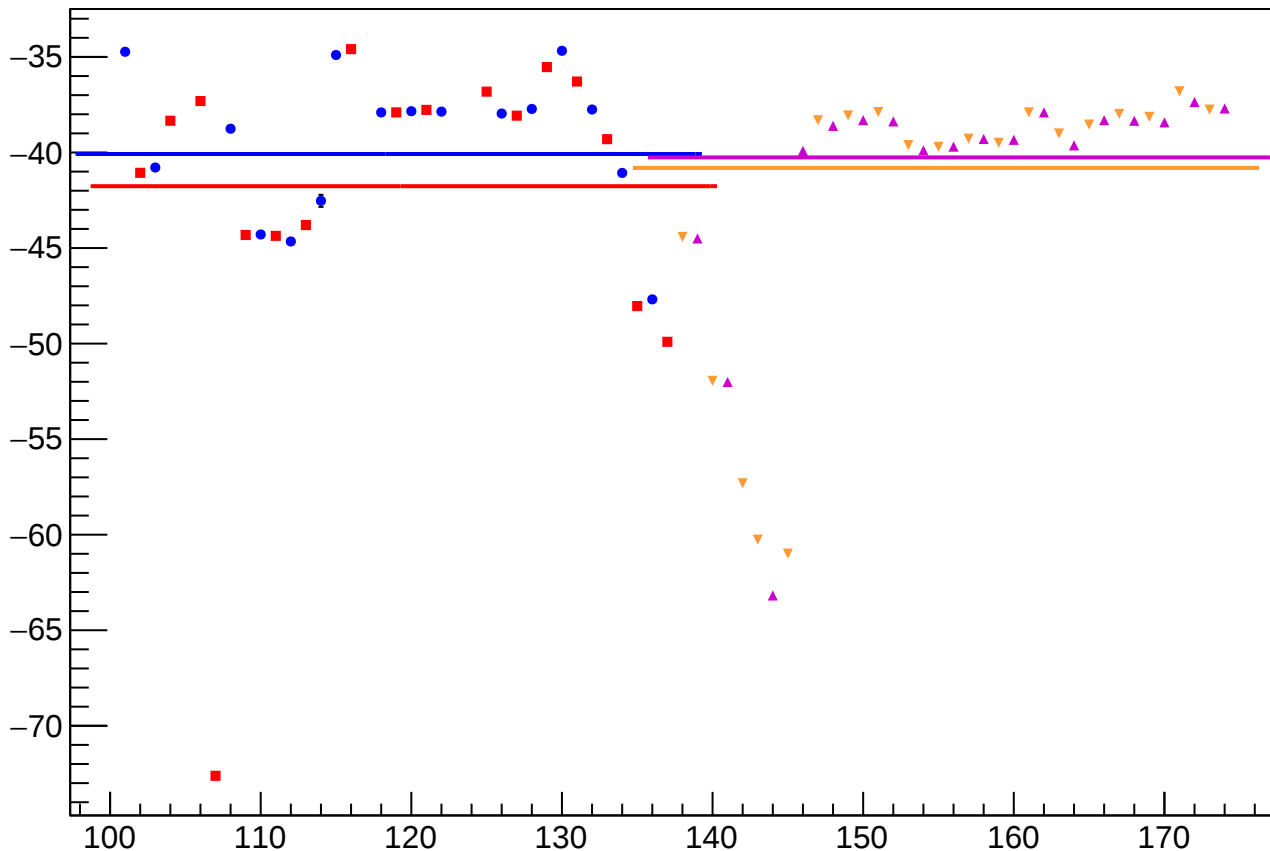
Right: 9.096 $\pm$ 0.359  $\chi^2/\text{NDF}$ : 1283.4/32

In: 14.643 $\pm$ 0.274  $\chi^2/\text{NDF}$ : 1290.2/33

Out: 13.956 $\pm$ 0.279  $\chi^2/\text{NDF}$ : 1348.9/35

All: 14.305 $\pm$ 0.195  $\chi^2/\text{NDF}$ : 2642.2/69

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-40.079 \pm 0.028$   $\chi^2/\text{NDF}$ : 25147.0/15

Left Out:  $-40.807 \pm 0.016$   $\chi^2/\text{NDF}$ : 146324.8/18

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}$ : 60249.3/16

Left In:  $-40.257 \pm 0.015$   $\chi^2/\text{NDF}$ : 102350.8/17

Left:  $-40.525 \pm 0.011$   $\chi^2/\text{NDF}$ : 249297.6/36

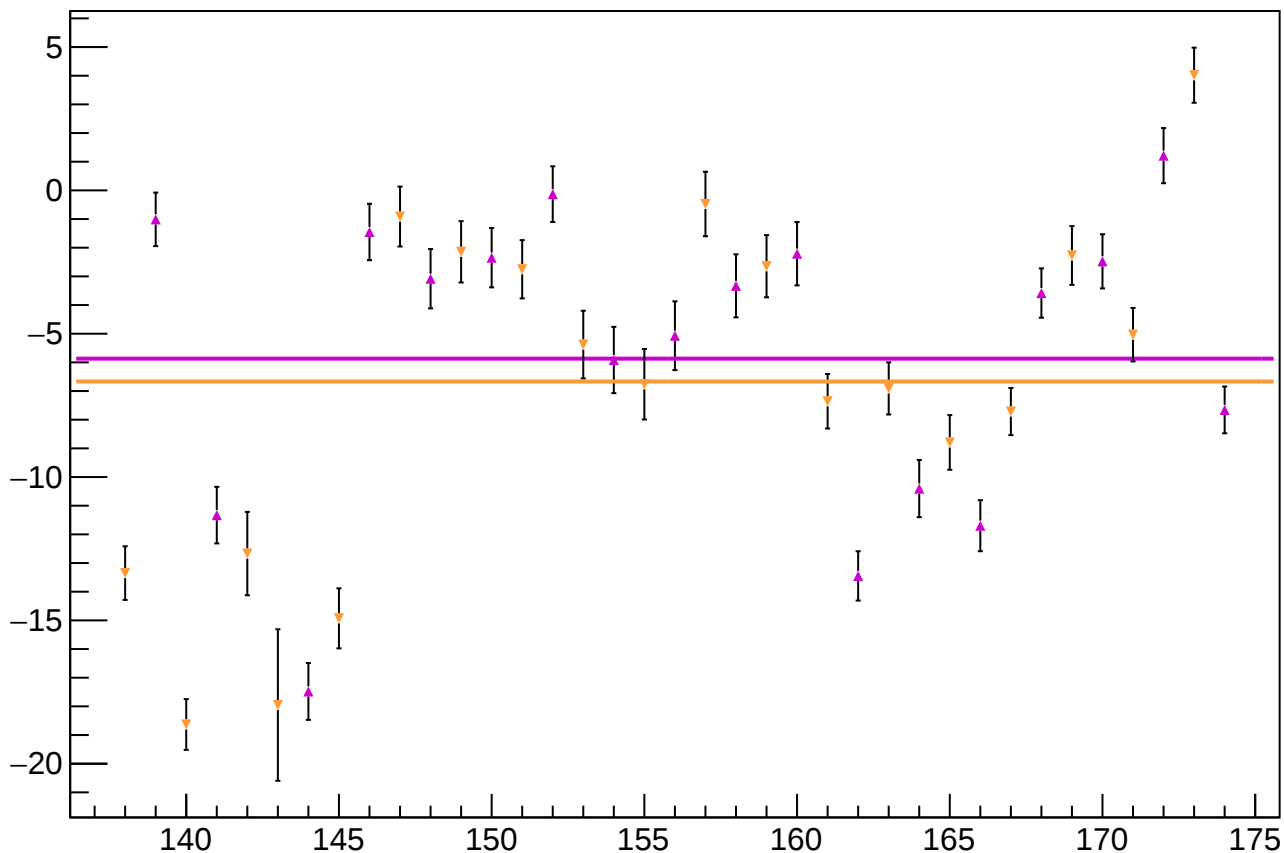
Right:  $-40.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 87139.1/32

In:  $-40.217 \pm 0.013$   $\chi^2/\text{NDF}$ : 127528.8/33

Out:  $-41.027 \pm 0.014$   $\chi^2/\text{NDF}$ : 207420.4/35

All:  $-40.612 \pm 0.010$   $\chi^2/\text{NDF}$ : 336706.6/69

reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



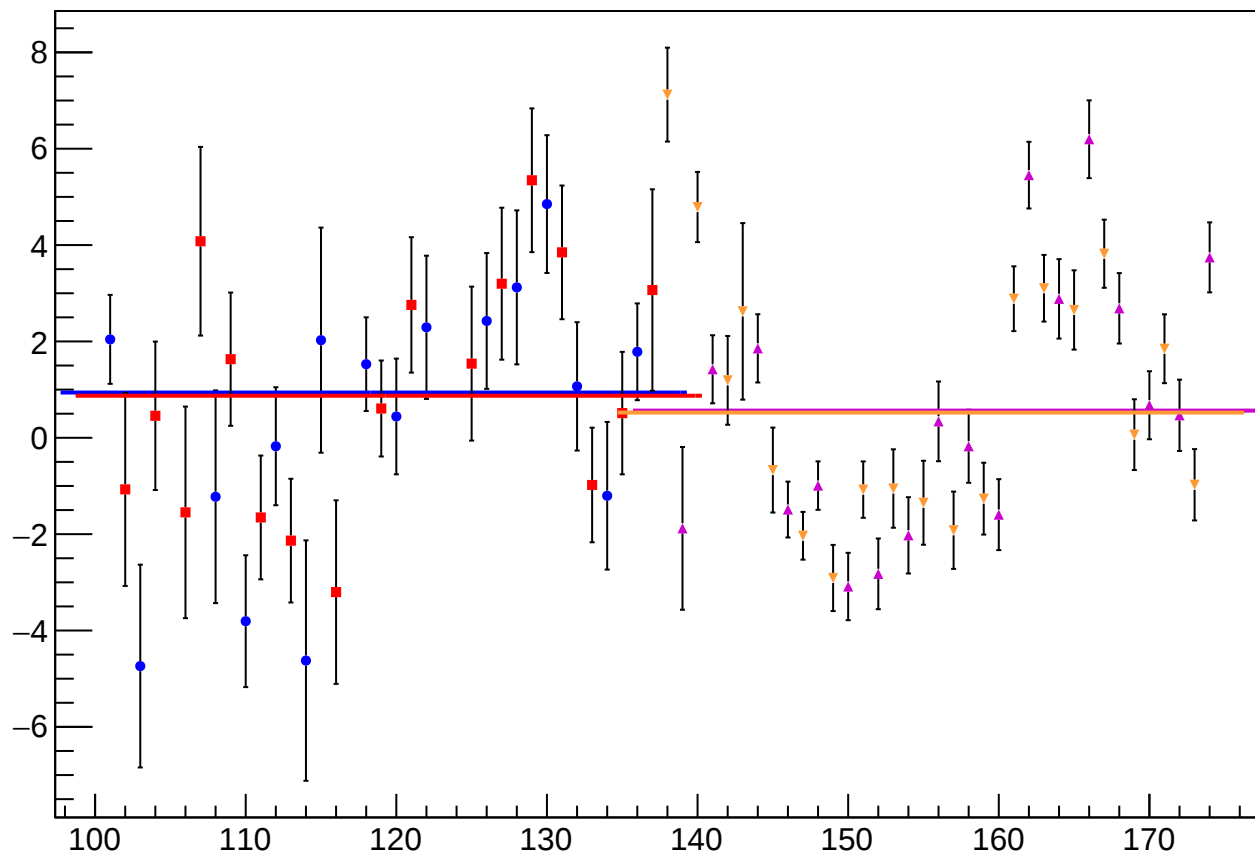
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -6.666 $\pm$ 0.237  $\chi^2$ /NDF:591.3/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.870 $\pm$ 0.230  $\chi^2$ /NDF:505.8/17

Left: -6.256 $\pm$ 0.165  $\chi^2$ /NDF: 1102.9/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -5.870 $\pm$ 0.230  $\chi^2$ /NDF:505.8/17  
 Out: -6.666 $\pm$ 0.237  $\chi^2$ /NDF:591.3/18

All: -6.256 $\pm$ 0.165  $\chi^2$ /NDF: 1102.9/36

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:  $0.524 \pm 0.170$   $\chi^2/\text{NDF}: 228.9/18$

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$

Left In:  $0.564 \pm 0.170$   $\chi^2/\text{NDF}: 232.1/17$

Left:  $0.544 \pm 0.120$   $\chi^2/\text{NDF}: 461.0/36$

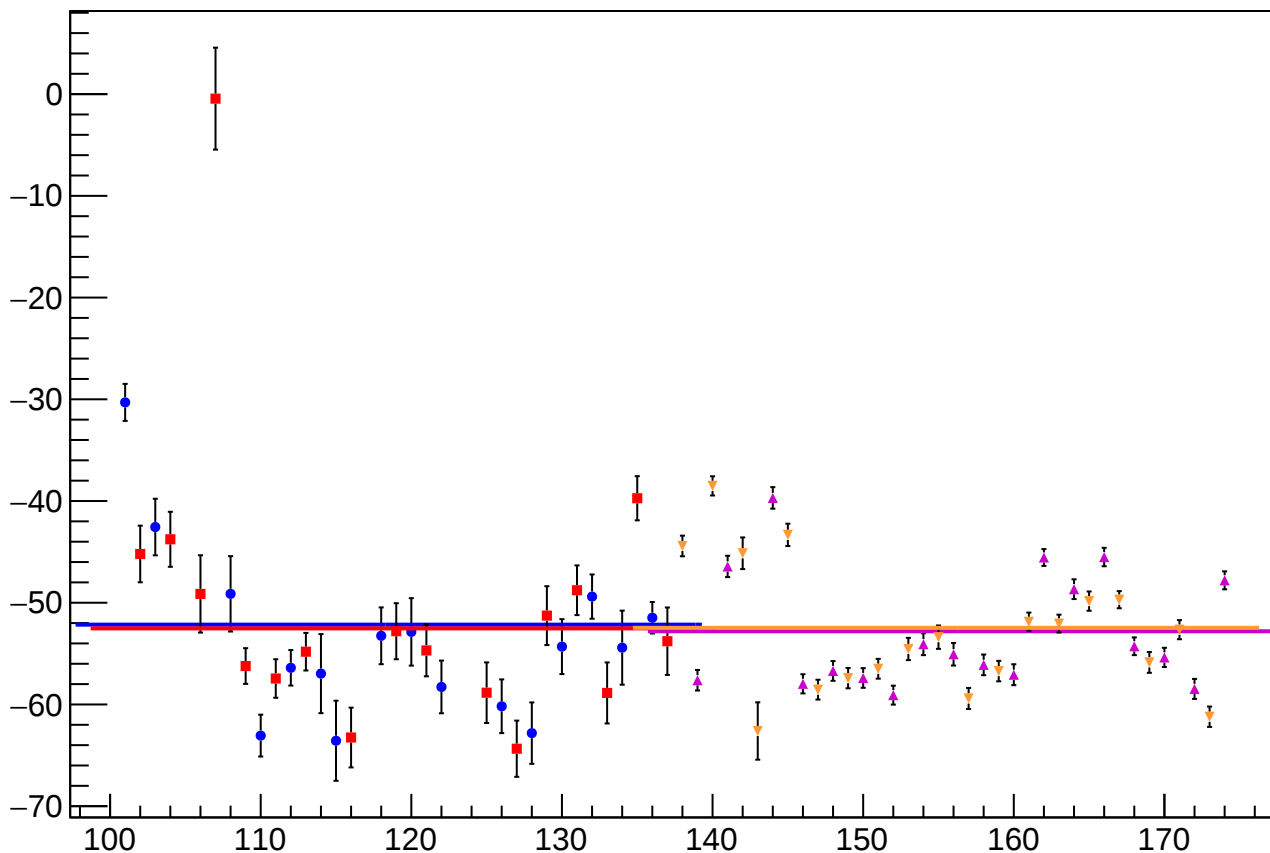
Right:  $0.908 \pm 0.245$   $\chi^2/\text{NDF}: 82.8/32$

In:  $0.640 \pm 0.152$   $\chi^2/\text{NDF}: 275.3/33$

Out:  $0.590 \pm 0.154$   $\chi^2/\text{NDF}: 270.2/35$

All:  $0.615 \pm 0.108$   $\chi^2/\text{NDF}: 545.6/69$

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:  $-52.465 \pm 0.234$   $\chi^2/\text{NDF}$ : 639.3/18

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

Left In:  $-52.803 \pm 0.228$   $\chi^2/\text{NDF}$ : 595.5/17

Left:  $-52.639 \pm 0.163$   $\chi^2/\text{NDF}$ : 1235.9/36

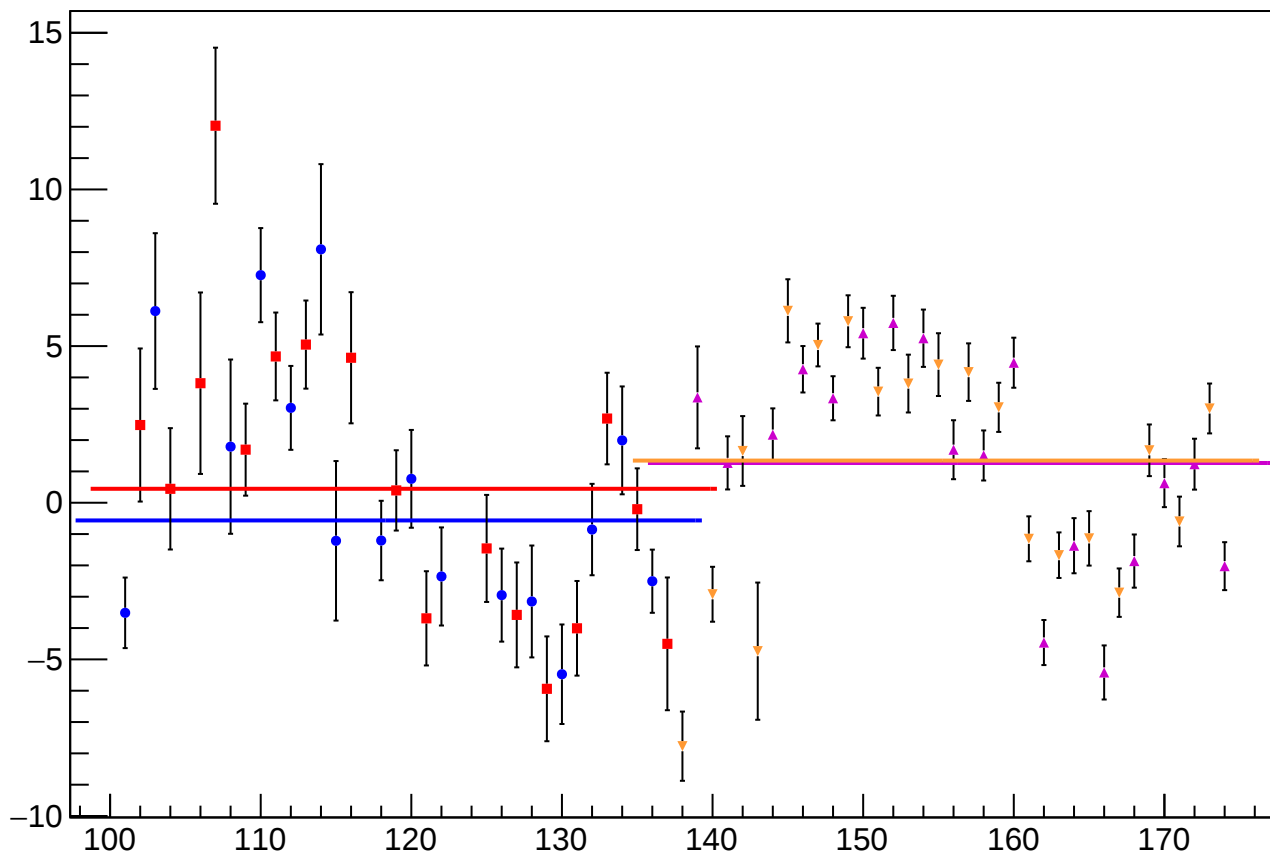
Right:  $-52.337 \pm 0.435$   $\chi^2/\text{NDF}$ : 449.0/32

In:  $-52.724 \pm 0.214$   $\chi^2/\text{NDF}$ : 827.5/33

Out:  $-52.472 \pm 0.219$   $\chi^2/\text{NDF}$ : 857.0/35

All:  $-52.602 \pm 0.153$   $\chi^2/\text{NDF}$ : 1685.2/69

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:  $1.346 \pm 0.196$   $\chi^2/\text{NDF}$ : 296.8/18

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

Left In:  $1.269 \pm 0.195$   $\chi^2/\text{NDF}$ : 281.2/17

Left:  $1.307 \pm 0.138$   $\chi^2/\text{NDF}$ : 578.1/36

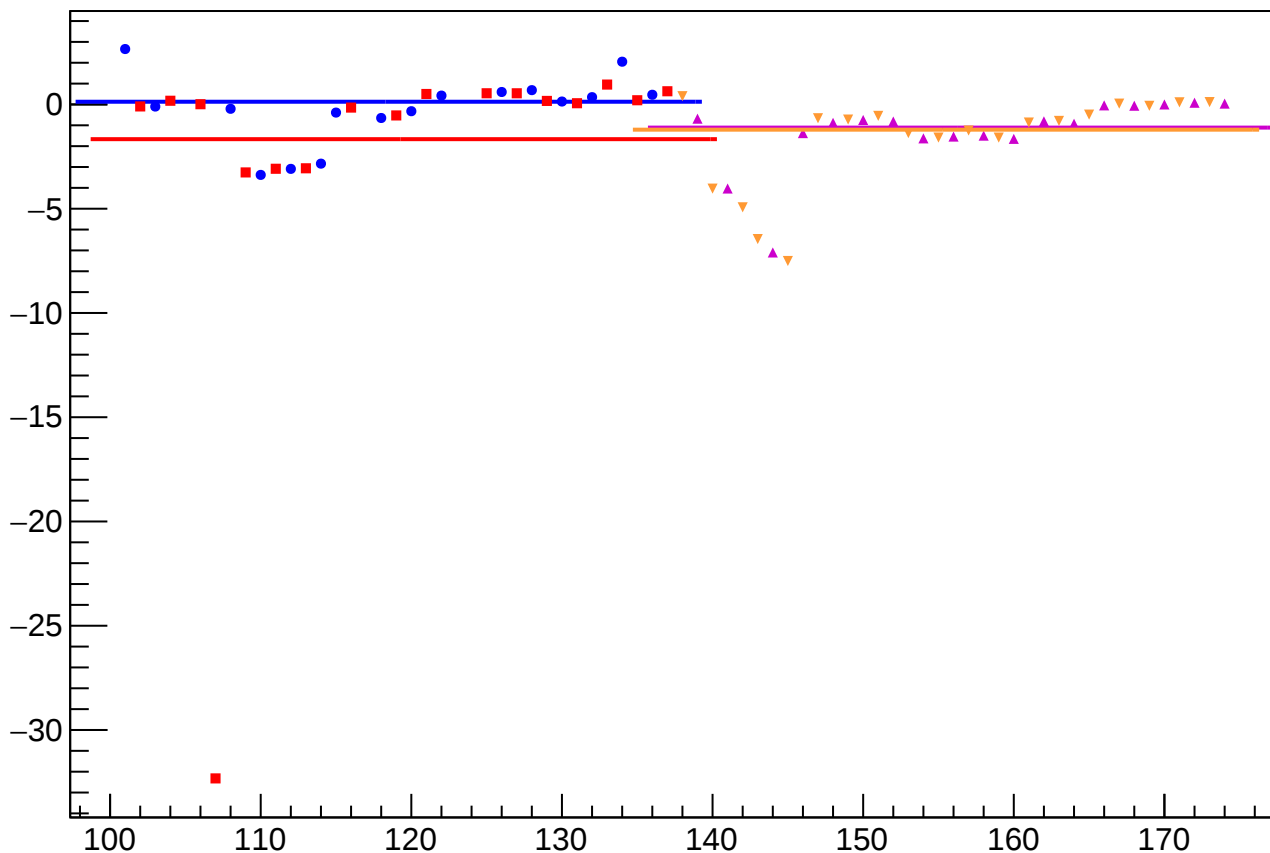
Right:  $-0.080 \pm 0.277$   $\chi^2/\text{NDF}$ : 179.3/32

In:  $0.893 \pm 0.174$   $\chi^2/\text{NDF}$ : 381.1/33

Out:  $1.171 \pm 0.176$   $\chi^2/\text{NDF}$ : 395.0/35

All:  $1.030 \pm 0.124$   $\chi^2/\text{NDF}$ : 777.4/69

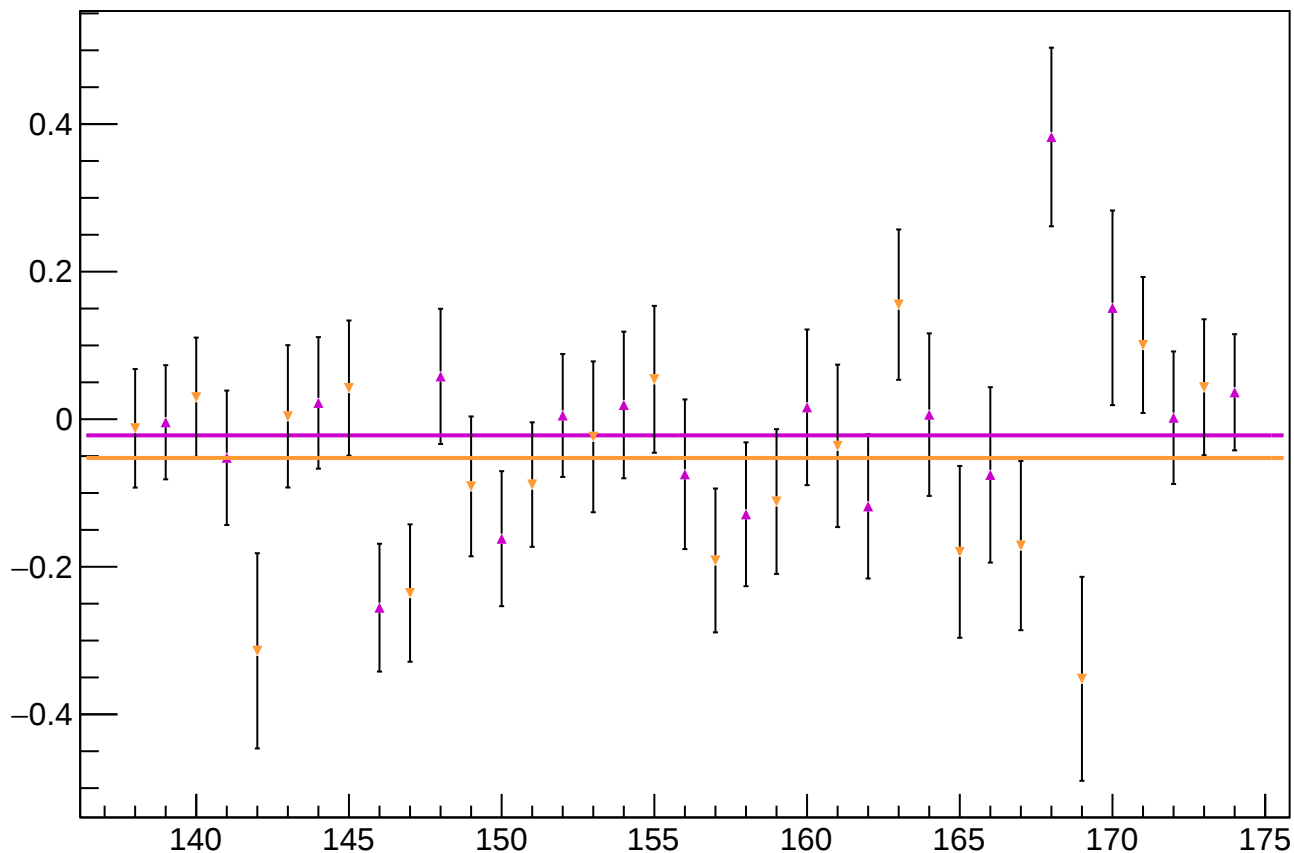
reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.130 \pm 0.022$   $\chi^2/\text{NDF}: 5232.9/15$   
 Left Out:  $-1.209 \pm 0.009$   $\chi^2/\text{NDF}: 39822.8/18$   
 Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}: 77602.8/16$   
 Left In:  $-1.110 \pm 0.009$   $\chi^2/\text{NDF}: 27772.8/17$

Left:  $-1.158 \pm 0.006$   $\chi^2/\text{NDF}: 67656.7/36$   
 Right:  $-0.752 \pm 0.015$   $\chi^2/\text{NDF}: 86255.5/32$   
 In:  $-0.931 \pm 0.008$   $\chi^2/\text{NDF}: 35851.2/33$   
 Out:  $-1.276 \pm 0.008$   $\chi^2/\text{NDF}: 117794.7/35$   
 All:  $-1.099 \pm 0.006$   $\chi^2/\text{NDF}: 154512.6/69$

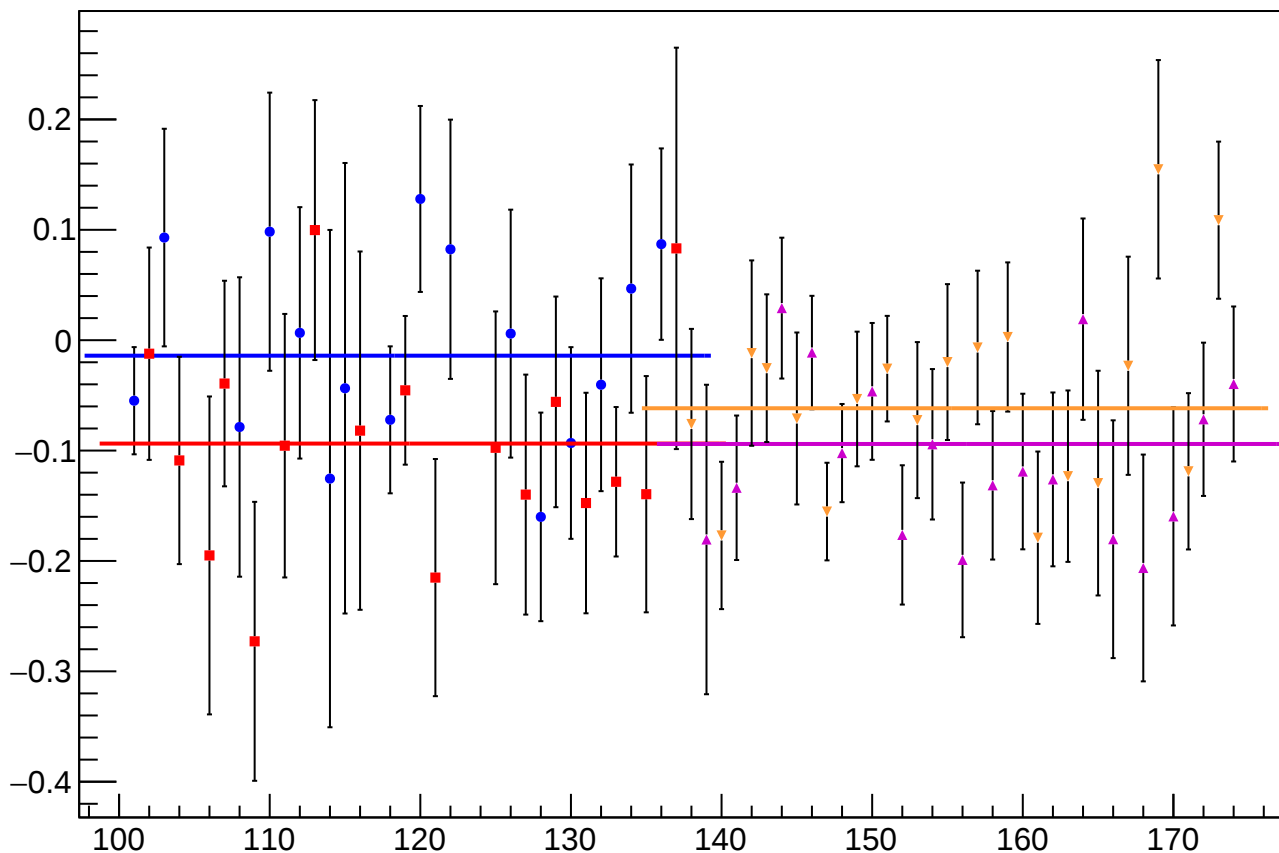
reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.052 $\pm$ 0.022  $\chi^2$ /NDF:29.4/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.022 $\pm$ 0.022  $\chi^2$ /NDF:27.4/17

Left: -0.037 $\pm$ 0.016  $\chi^2$ /NDF: 57.7/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.022 $\pm$ 0.022  $\chi^2$ /NDF:27.4/17  
 Out: -0.052 $\pm$ 0.022  $\chi^2$ /NDF:29.4/18  
 All: -0.037 $\pm$ 0.016  $\chi^2$ /NDF: 57.7/36

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:  $-0.062 \pm 0.016$   $\chi^2/\text{NDF}$ : 25.3/18

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

Left In:  $-0.094 \pm 0.016$   $\chi^2/\text{NDF}$ : 16.8/17

Left:  $-0.077 \pm 0.011$   $\chi^2/\text{NDF}$ : 44.1/36

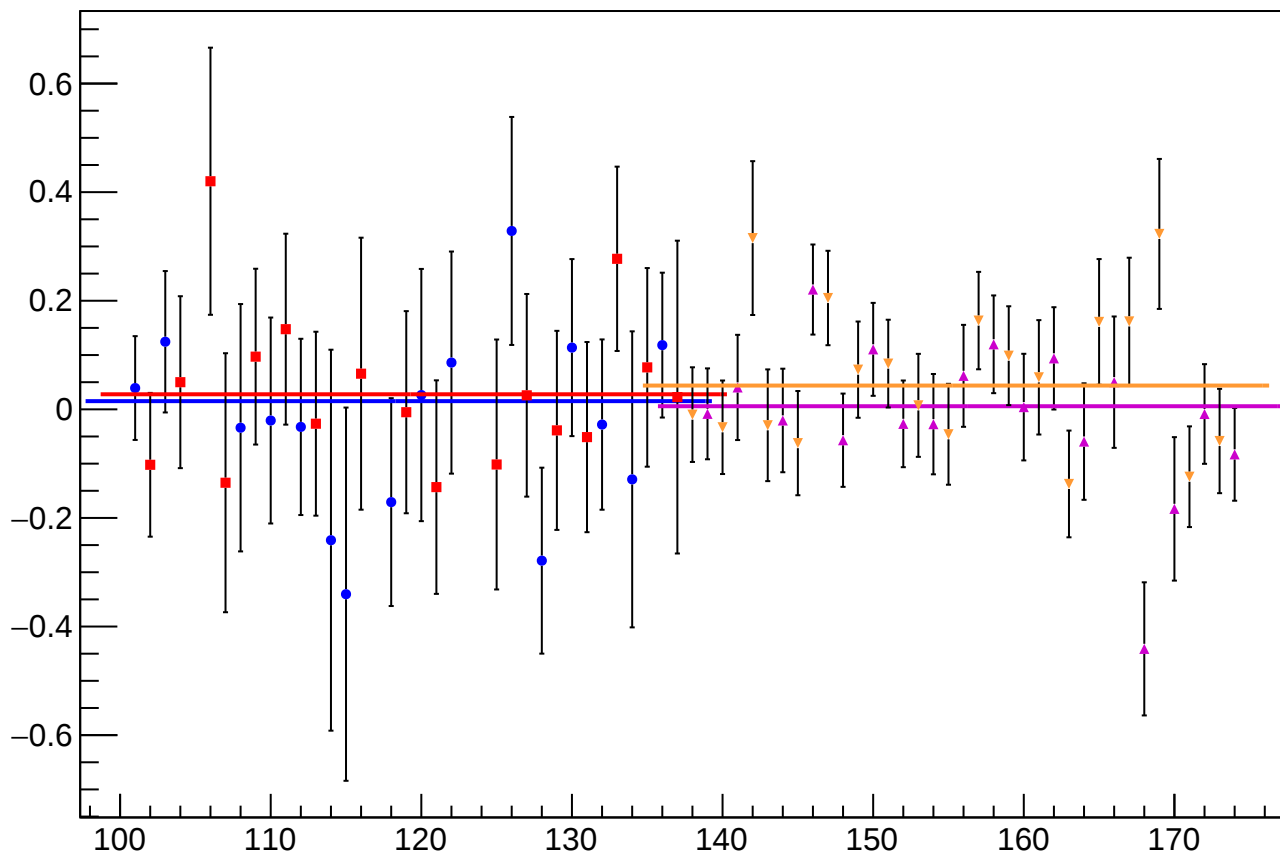
Right:  $-0.051 \pm 0.017$   $\chi^2/\text{NDF}$ : 28.1/32

In:  $-0.068 \pm 0.013$   $\chi^2/\text{NDF}$ : 37.1/33

Out:  $-0.071 \pm 0.013$   $\chi^2/\text{NDF}$ : 36.6/35

All:  $-0.069 \pm 0.009$   $\chi^2/\text{NDF}$ : 73.7/69

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: 0.044 $\pm$ 0.022  $\chi^2$ /NDF: 27.6/18

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

Left In: 0.006 $\pm$ 0.022  $\chi^2$ /NDF: 29.0/17

Left: 0.025 $\pm$ 0.016  $\chi^2$ /NDF: 58.1/36

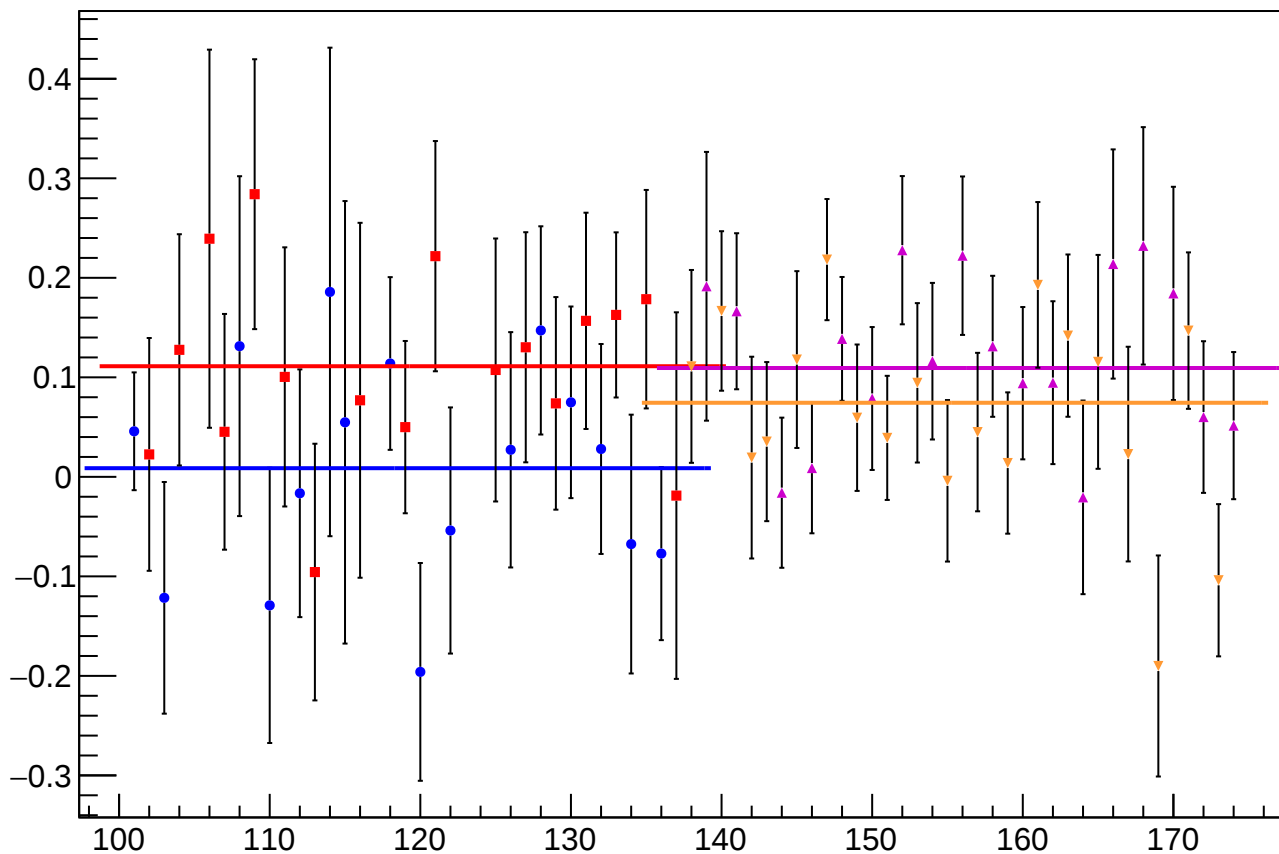
Right: 0.021 $\pm$ 0.031  $\chi^2$ /NDF: 18.6/32

In: 0.008 $\pm$ 0.020  $\chi^2$ /NDF: 39.2/33

Out: 0.041 $\pm$ 0.020  $\chi^2$ /NDF: 36.1/35

All: 0.024 $\pm$ 0.014  $\chi^2$ /NDF: 76.7/69

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:  $0.074 \pm 0.019$   $\chi^2/\text{NDF}$ : 25.1/18

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.6/16

Left In:  $0.109 \pm 0.019$   $\chi^2/\text{NDF}$ : 16.3/17

Left:  $0.092 \pm 0.013$   $\chi^2/\text{NDF}$ : 43.1/36

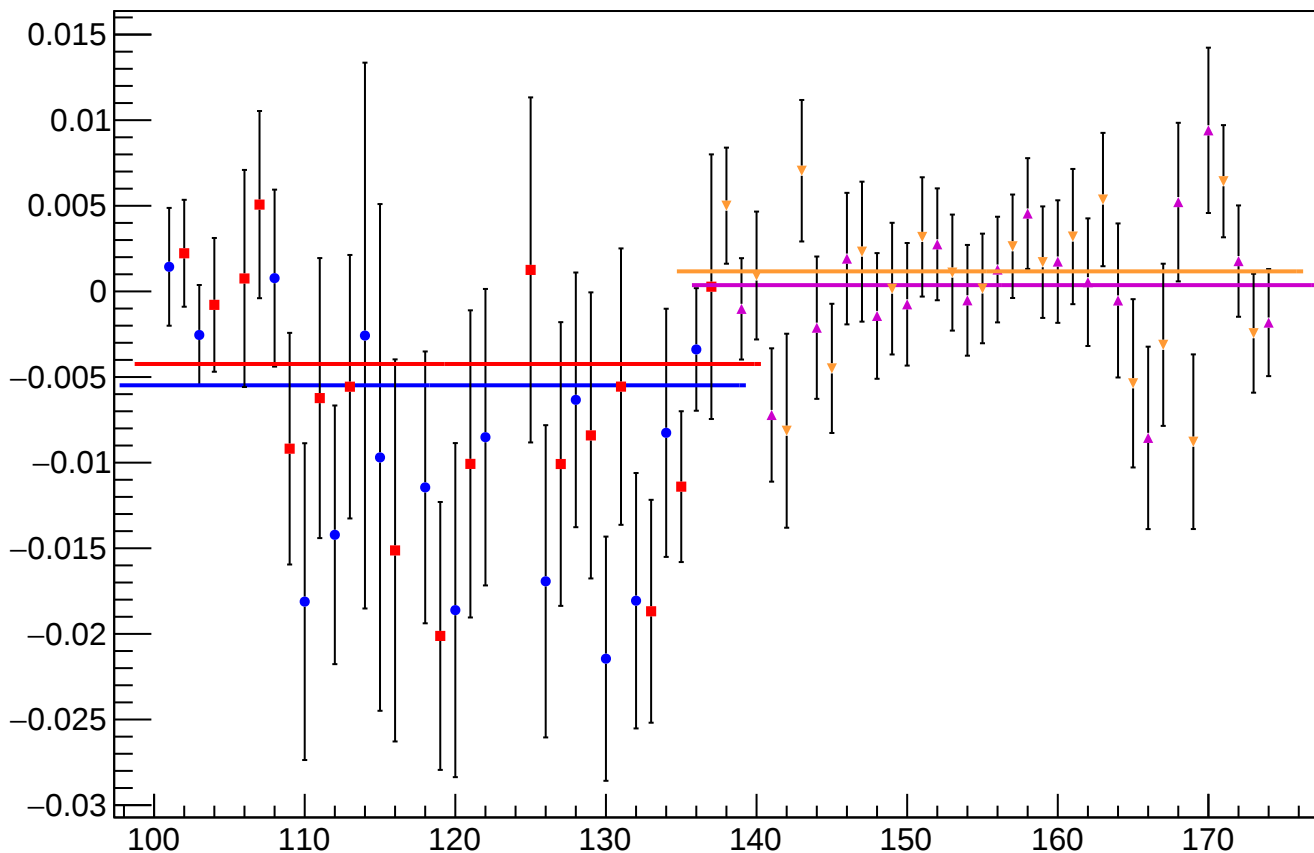
Right:  $0.057 \pm 0.020$   $\chi^2/\text{NDF}$ : 28.0/32

In:  $0.076 \pm 0.015$   $\chi^2/\text{NDF}$ : 38.3/33

Out:  $0.085 \pm 0.016$   $\chi^2/\text{NDF}$ : 34.9/35

All:  $0.081 \pm 0.011$   $\chi^2/\text{NDF}$ : 73.3/69

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  $\chi^2/\text{NDF}$ : 20.6/18

Right Out: -0.004 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 23.7/16

Left In: 0.000 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 15.5/17

Left: 0.001 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 36.5/36

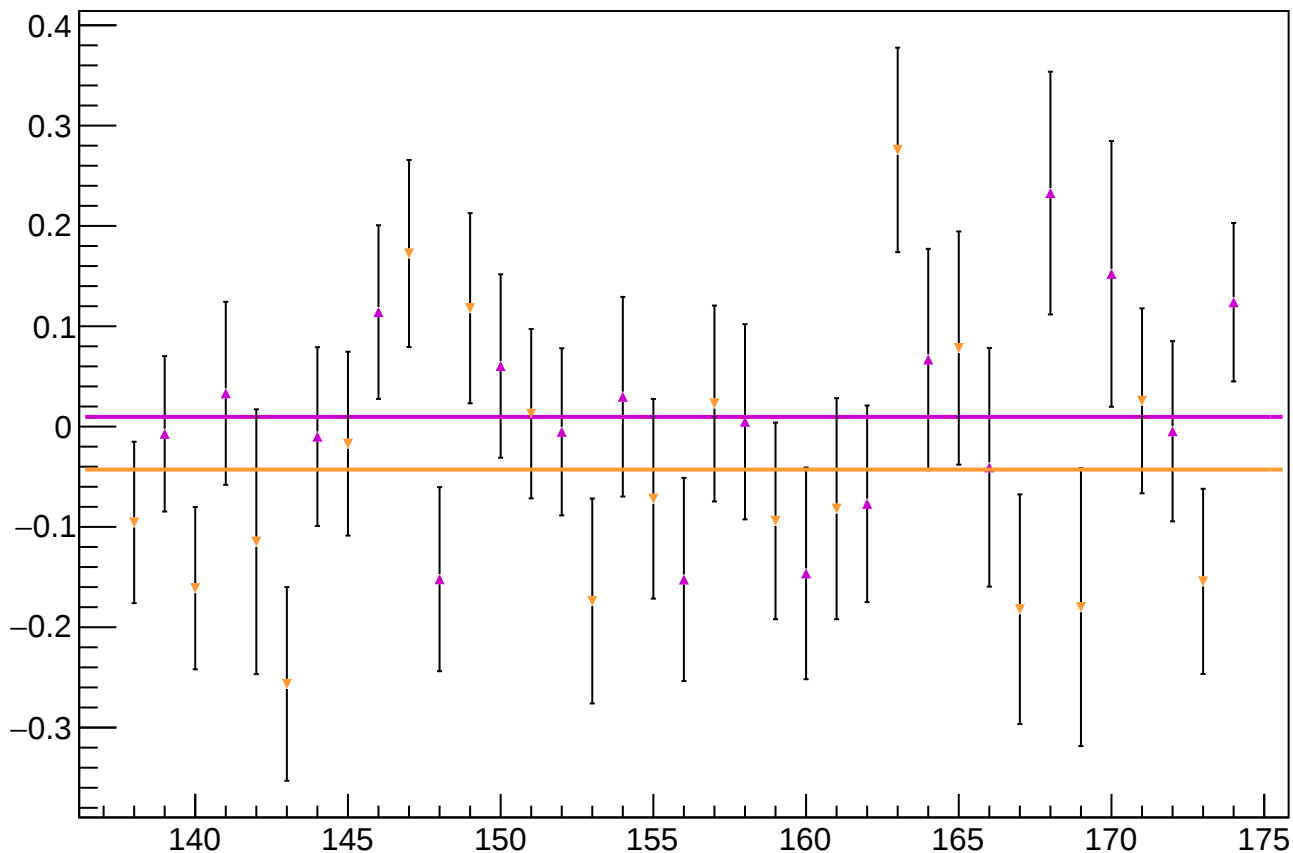
Right: -0.005 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 46.3/32

In: -0.001 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 50.0/33

Out: -0.000 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 54.4/35

All: -0.001 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 105.2/69

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: -0.043 $\pm$ 0.022  $\chi^2$ /NDF:34.4/18

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.010 $\pm$ 0.022  $\chi^2$ /NDF:17.8/17

Left: -0.017 $\pm$ 0.016  $\chi^2$ /NDF: 54.9/36

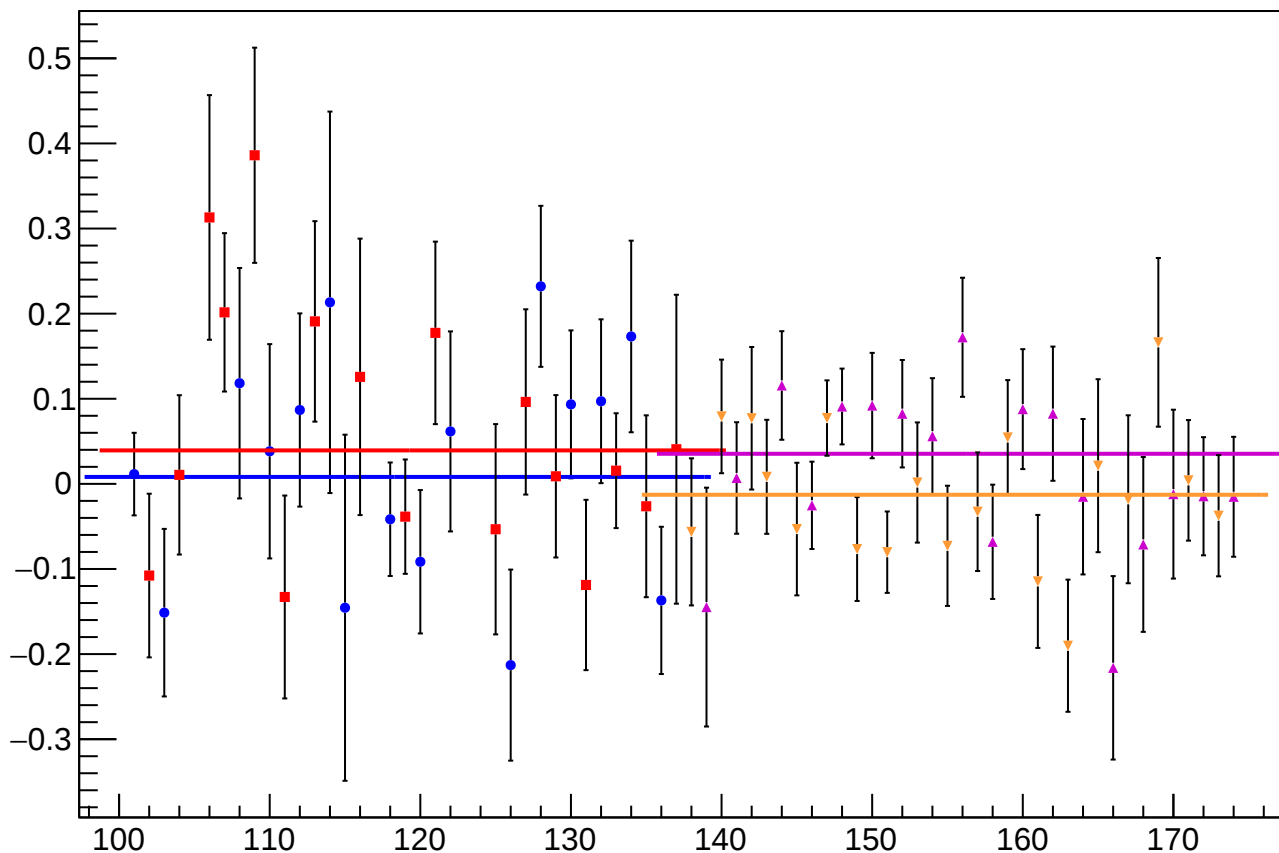
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.010 $\pm$ 0.022  $\chi^2$ /NDF:17.8/17

Out: -0.043 $\pm$ 0.022  $\chi^2$ /NDF:34.4/18

All: -0.017 $\pm$ 0.016  $\chi^2$ /NDF: 54.9/36

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.008 \pm 0.023$   $\chi^2/\text{NDF}: 23.7/15$

Left Out:  $-0.013 \pm 0.016$   $\chi^2/\text{NDF}: 23.2/18$

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}: 27.6/16$

Left In:  $0.035 \pm 0.016$   $\chi^2/\text{NDF}: 23.1/17$

Left:  $0.011 \pm 0.011$   $\chi^2/\text{NDF}: 50.7/36$

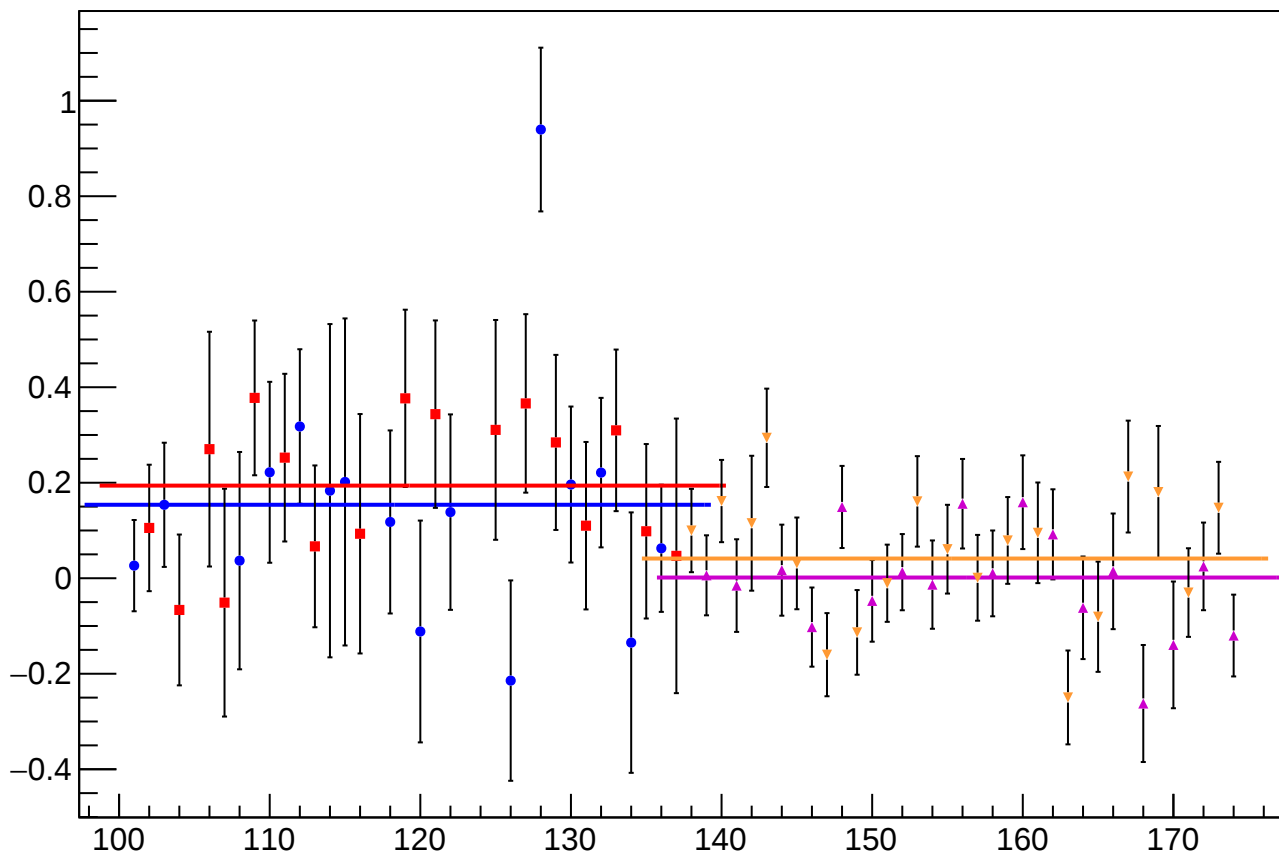
Right:  $0.023 \pm 0.017$   $\chi^2/\text{NDF}: 52.1/32$

In:  $0.026 \pm 0.013$   $\chi^2/\text{NDF}: 47.6/33$

Out:  $0.002 \pm 0.013$   $\chi^2/\text{NDF}: 53.9/35$

All:  $0.014 \pm 0.009$   $\chi^2/\text{NDF}: 103.2/69$

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.154 $\pm$ 0.043  $\chi^2$ /NDF: 30.5/15

Left Out: 0.041 $\pm$ 0.022  $\chi^2$ /NDF:34.6/18

Right Out: 0.194 $\pm$ 0.045  $\chi^2$ /NDF: 10.6/16

Left In: 0.001 $\pm$ 0.022  $\chi^2$ /NDF:19.4/17

Left: 0.021 $\pm$ 0.016  $\chi^2$ /NDF: 55.6/36

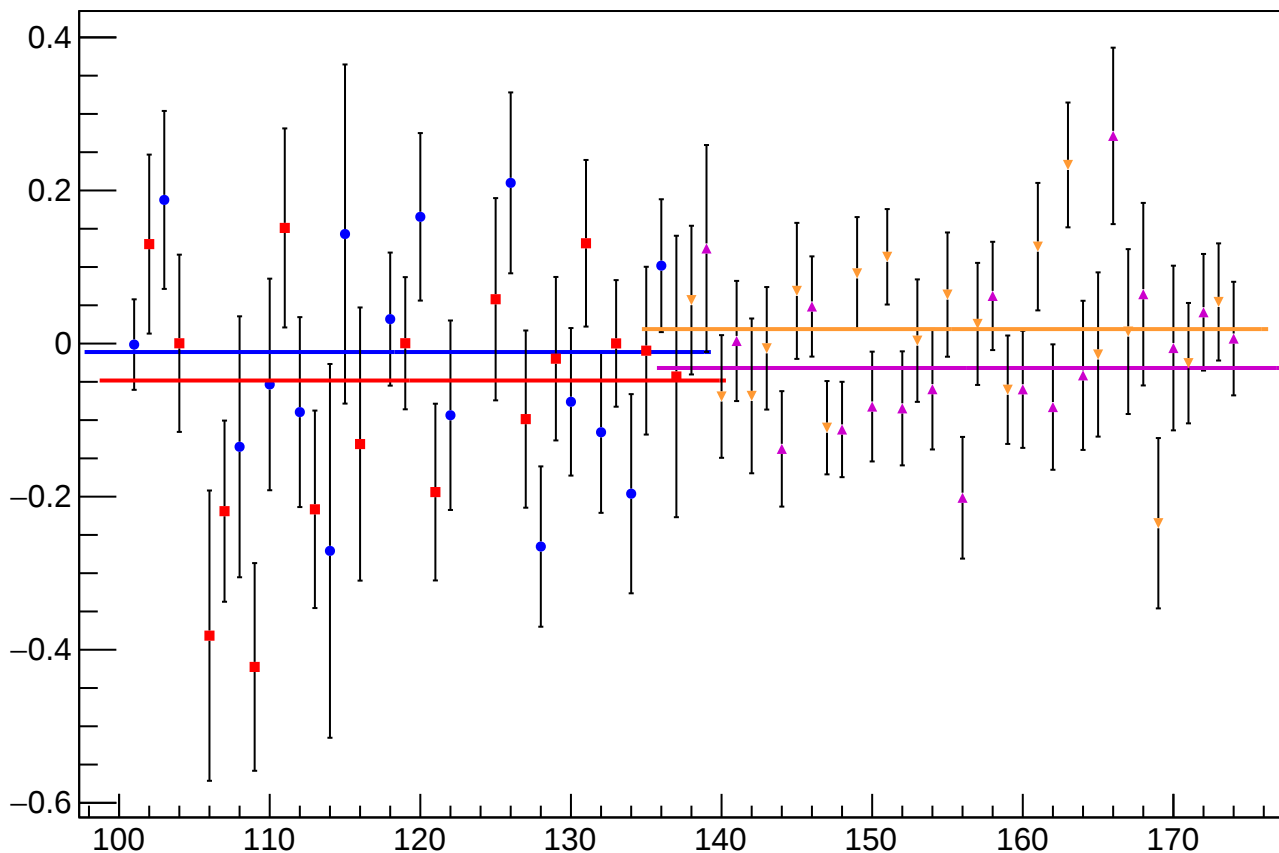
Right: 0.173 $\pm$ 0.031  $\chi^2$ /NDF: 41.5/32

In: 0.034 $\pm$ 0.020  $\chi^2$ /NDF:59.9/33

Out: 0.071 $\pm$ 0.020  $\chi^2$ /NDF:54.5/35

All: 0.052 $\pm$ 0.014  $\chi^2$ /NDF: 116.1/69

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:  $0.019 \pm 0.019$   $\chi^2/\text{NDF}$ : 26.3/18

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.6/16

Left In:  $-0.032 \pm 0.019$   $\chi^2/\text{NDF}$ : 23.5/17

Left:  $-0.006 \pm 0.013$   $\chi^2/\text{NDF}$ : 53.4/36

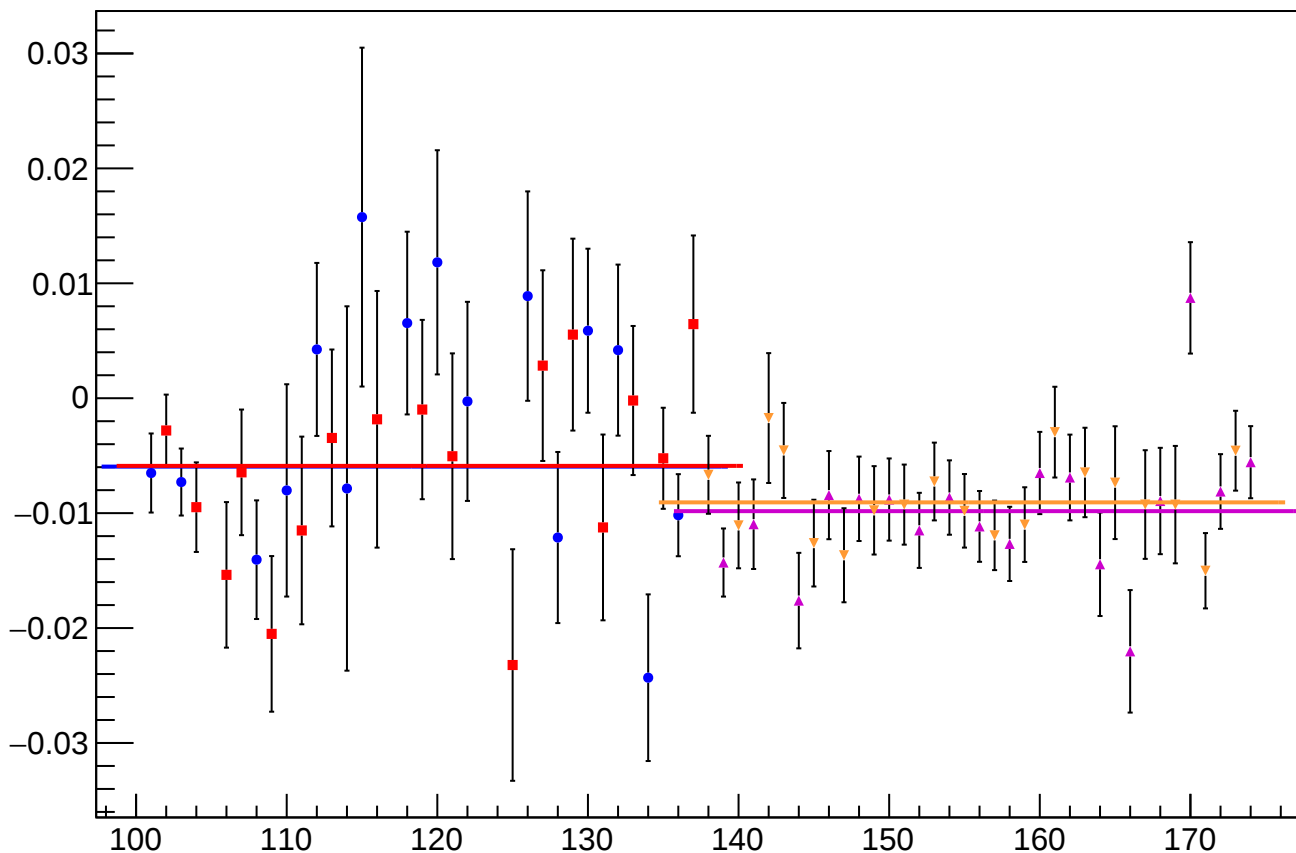
Right:  $-0.029 \pm 0.020$   $\chi^2/\text{NDF}$ : 49.9/32

In:  $-0.025 \pm 0.015$   $\chi^2/\text{NDF}$ : 47.3/33

Out:  $-0.001 \pm 0.016$   $\chi^2/\text{NDF}$ : 55.7/35

All:  $-0.013 \pm 0.011$   $\chi^2/\text{NDF}$ : 104.2/69

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  $\chi^2/\text{NDF}$ :15.4/18

Right Out: -0.006 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 19.6/16

Left In: -0.010 $\pm$ 0.001  $\chi^2/\text{NDF}$ :32.1/17

Left: -0.009 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 47.9/36

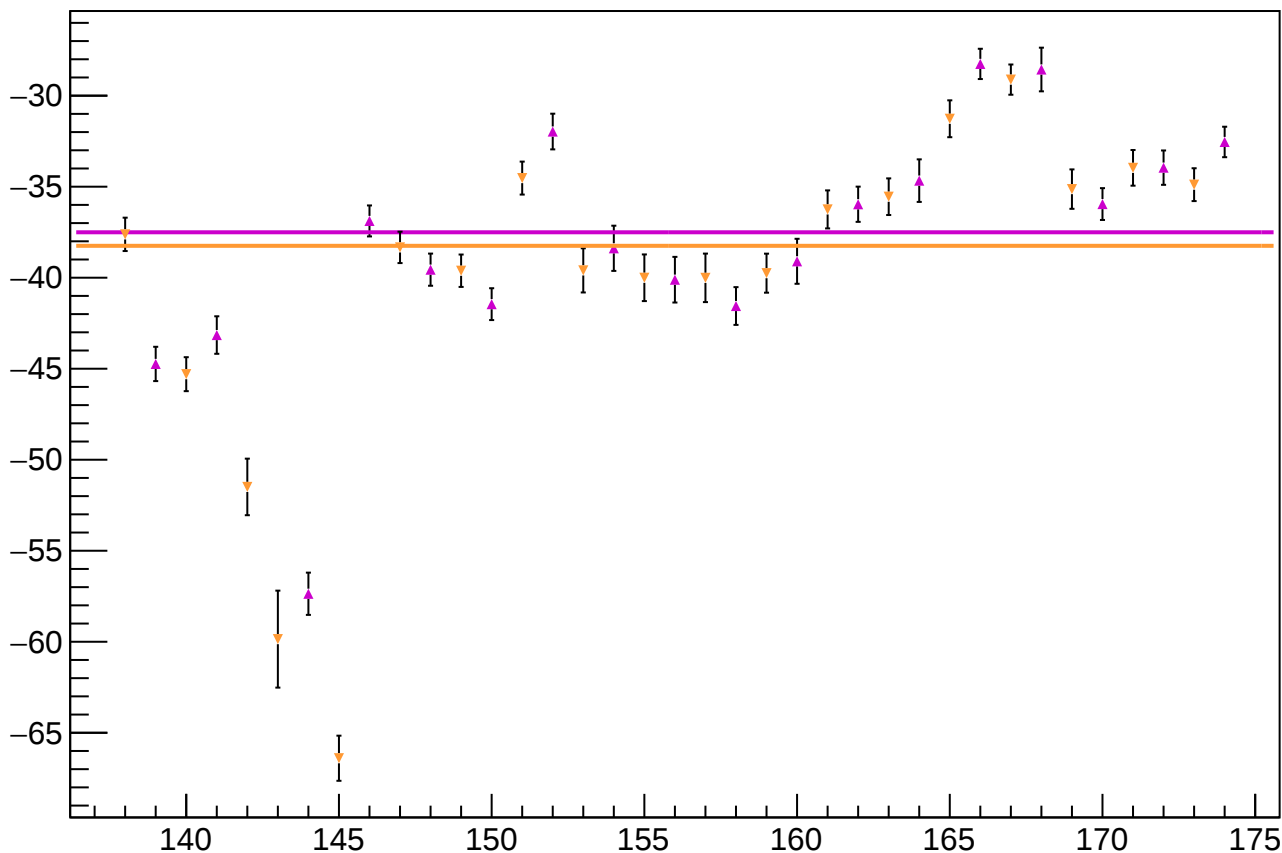
Right: -0.006 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 48.3/32

In: -0.009 $\pm$ 0.001  $\chi^2/\text{NDF}$ :66.2/33

Out: -0.008 $\pm$ 0.001  $\chi^2/\text{NDF}$ :38.4/35

All: -0.009 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 104.9/69

reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



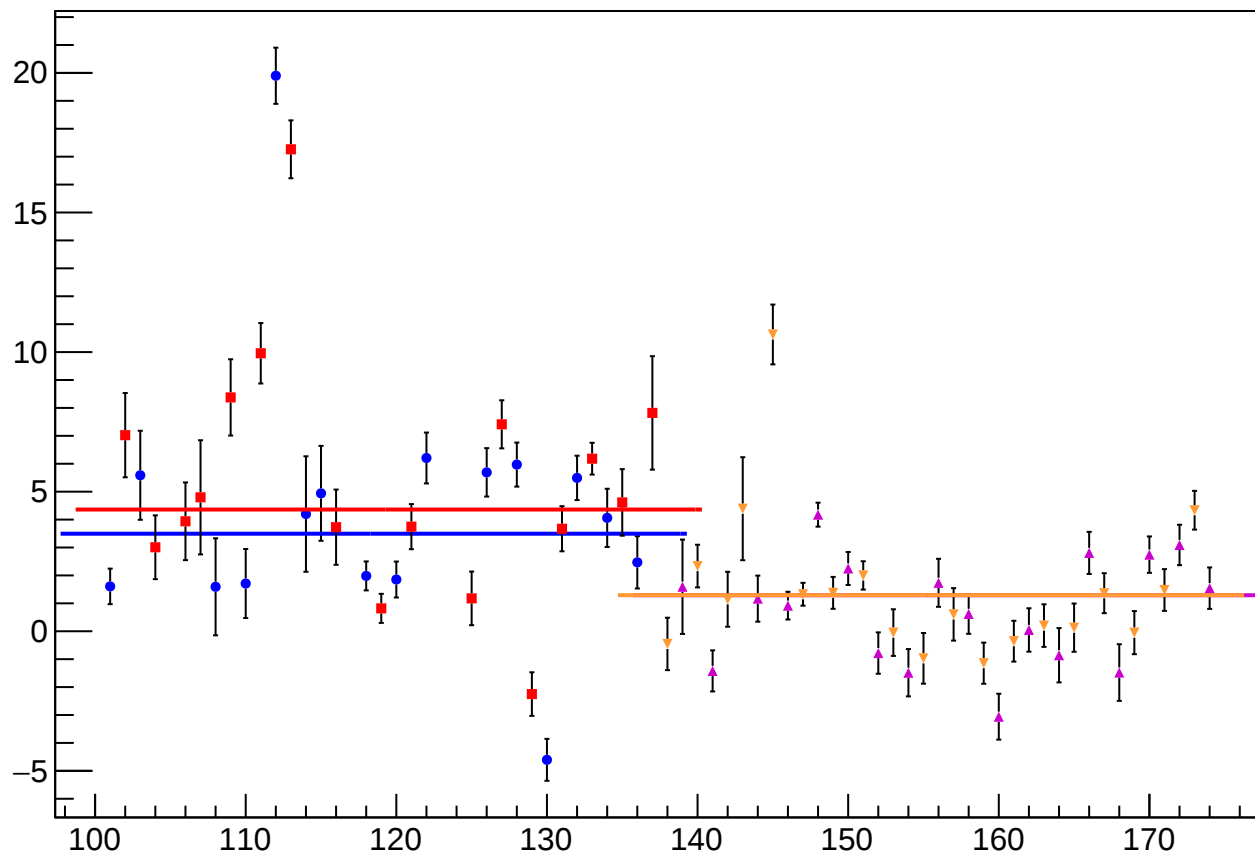
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -38.248+/-0.239  $\chi^2/\text{NDF}$ :958.5/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -37.505+/-0.233  $\chi^2/\text{NDF}$ :702.0/17

Left: -37.867+/-0.167  $\chi^2/\text{NDF}$ : 1665.4/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.505+/-0.233  $\chi^2/\text{NDF}$ :702.0/17  
 Out: -38.248+/-0.239  $\chi^2/\text{NDF}$ :958.5/18

All: -37.867+/-0.167  $\chi^2/\text{NDF}$ : 1665.4/36

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.494 \pm 0.218$   $\chi^2/\text{NDF}: 444.9/15$

Left Out:  $1.292 \pm 0.167$   $\chi^2/\text{NDF}: 137.6/18$

Right Out:  $4.360 \pm 0.225$   $\chi^2/\text{NDF}: 351.0/16$

Left In:  $1.291 \pm 0.168$   $\chi^2/\text{NDF}: 140.0/17$

Left:  $1.291 \pm 0.118$   $\chi^2/\text{NDF}: 277.6/36$

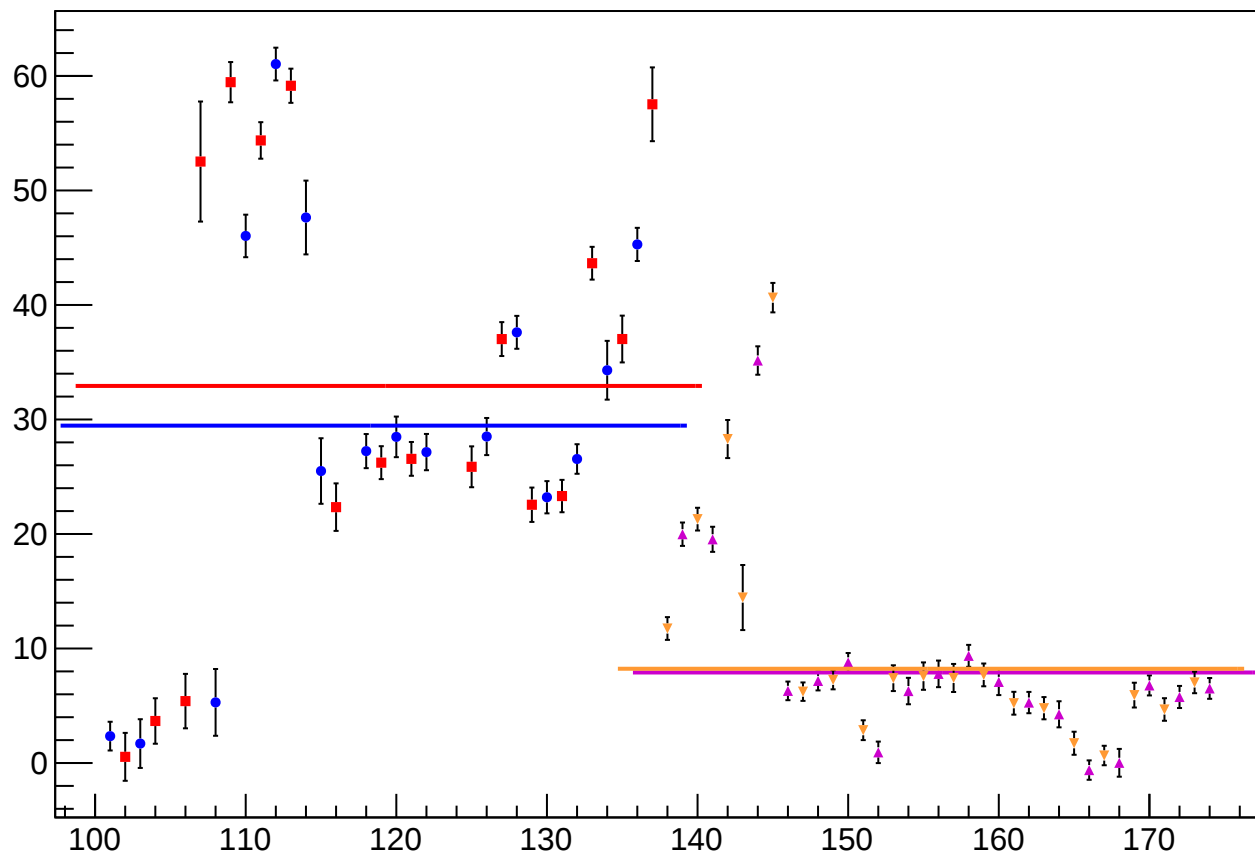
Right:  $3.912 \pm 0.157$   $\chi^2/\text{NDF}: 803.5/32$

In:  $2.111 \pm 0.133$   $\chi^2/\text{NDF}: 649.2/33$

Out:  $2.377 \pm 0.134$   $\chi^2/\text{NDF}: 608.4/35$

All:  $2.243 \pm 0.094$   $\chi^2/\text{NDF}: 1259.6/69$

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: 8.232 $\pm$ 0.235  $\chi^2$ /NDF:1180.2/18

Right Out: 32.930 $\pm$ 0.423  $\chi^2$ /NDF: 1624.4/16

Left In: 7.905 $\pm$ 0.230  $\chi^2$ /NDF:971.1/17

Left: 8.065 $\pm$ 0.164  $\chi^2$ /NDF: 2152.3/36

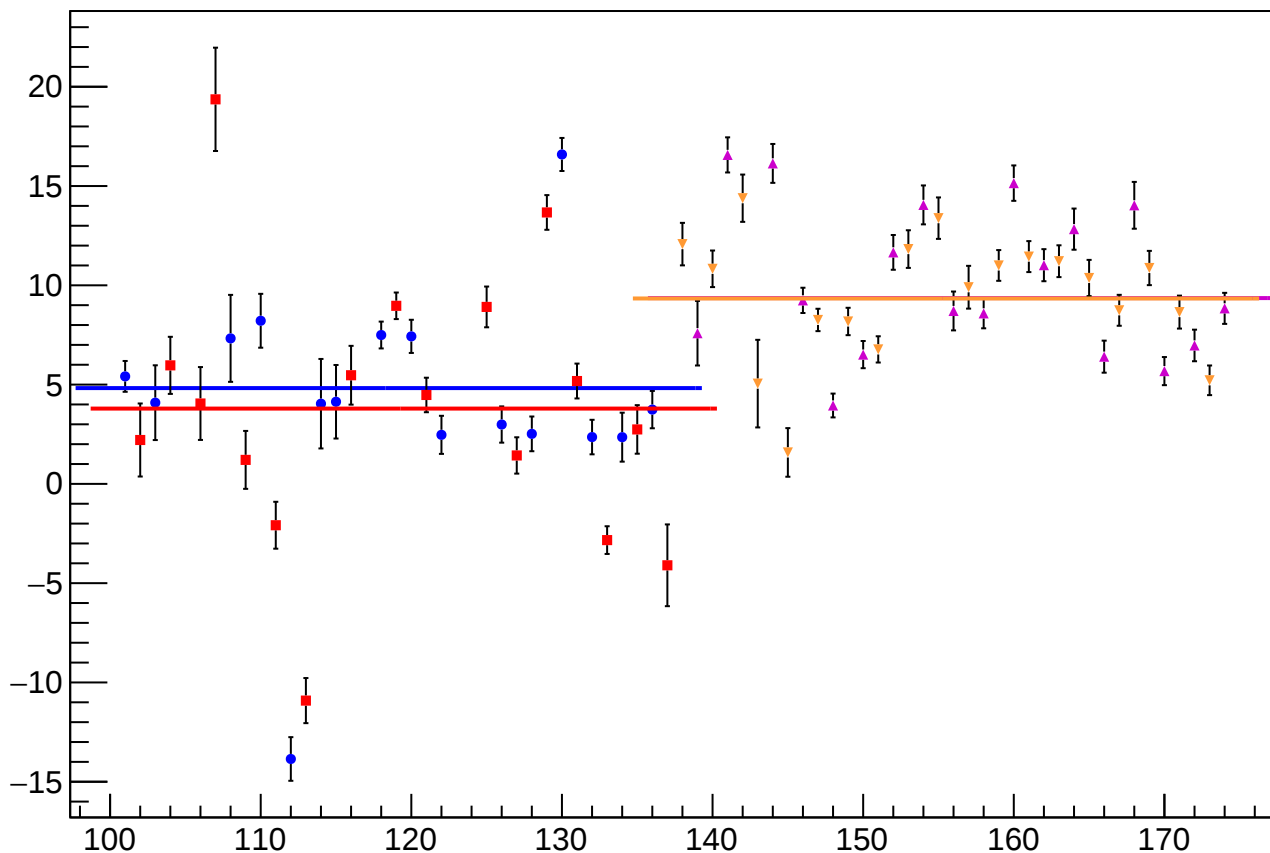
Right: 31.172 $\pm$ 0.297  $\chi^2$ /NDF: 3150.0/32

In: 12.912 $\pm$ 0.201  $\chi^2$ /NDF:4509.5/33

Out: 14.058 $\pm$ 0.206  $\chi^2$ /NDF:5403.4/35

All: 13.472 $\pm$ 0.144  $\chi^2$ /NDF: 9928.8/69

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}: 552.9/15$

Left Out:  $9.337 \pm 0.195$   $\chi^2/\text{NDF}: 168.4/18$

Right Out:  $3.792 \pm 0.259$   $\chi^2/\text{NDF}: 563.6/16$

Left In:  $9.357 \pm 0.195$   $\chi^2/\text{NDF}: 368.7/17$

Left:  $9.347 \pm 0.138$   $\chi^2/\text{NDF}: 537.1/36$

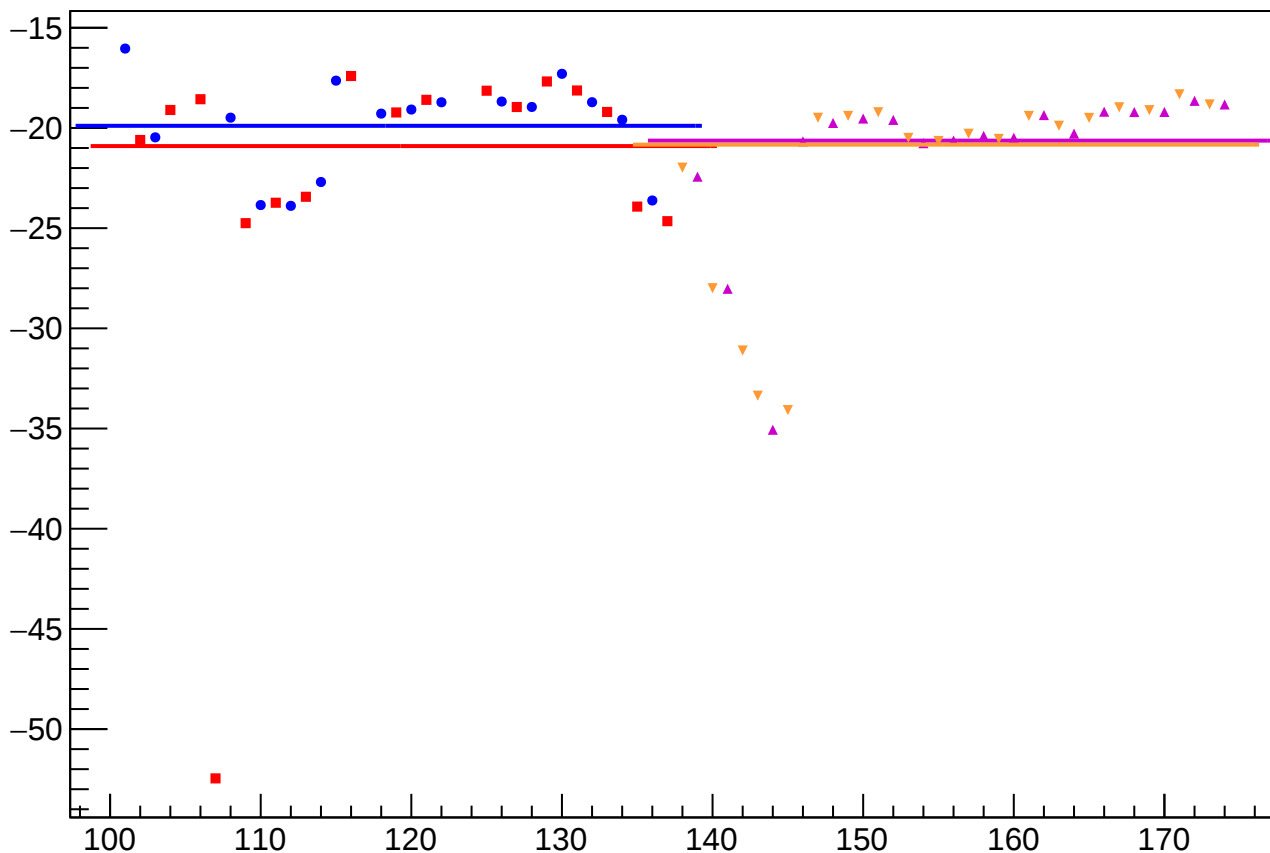
Right:  $4.323 \pm 0.180$   $\chi^2/\text{NDF}: 1124.7/32$

In:  $7.662 \pm 0.154$   $\chi^2/\text{NDF}: 1124.7/33$

Out:  $7.335 \pm 0.156$   $\chi^2/\text{NDF}: 1024.9/35$

All:  $7.500 \pm 0.109$   $\chi^2/\text{NDF}: 2151.9/69$

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.892 \pm 0.016$   $\chi^2/\text{NDF}$ : 26092.3/15

Left Out:  $-20.833 \pm 0.009$   $\chi^2/\text{NDF}$ : 153045.3/18

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}$ : 92802.8/16

Left In:  $-20.631 \pm 0.009$   $\chi^2/\text{NDF}$ : 115079.5/17

Left:  $-20.729 \pm 0.006$   $\chi^2/\text{NDF}$ : 268370.9/36

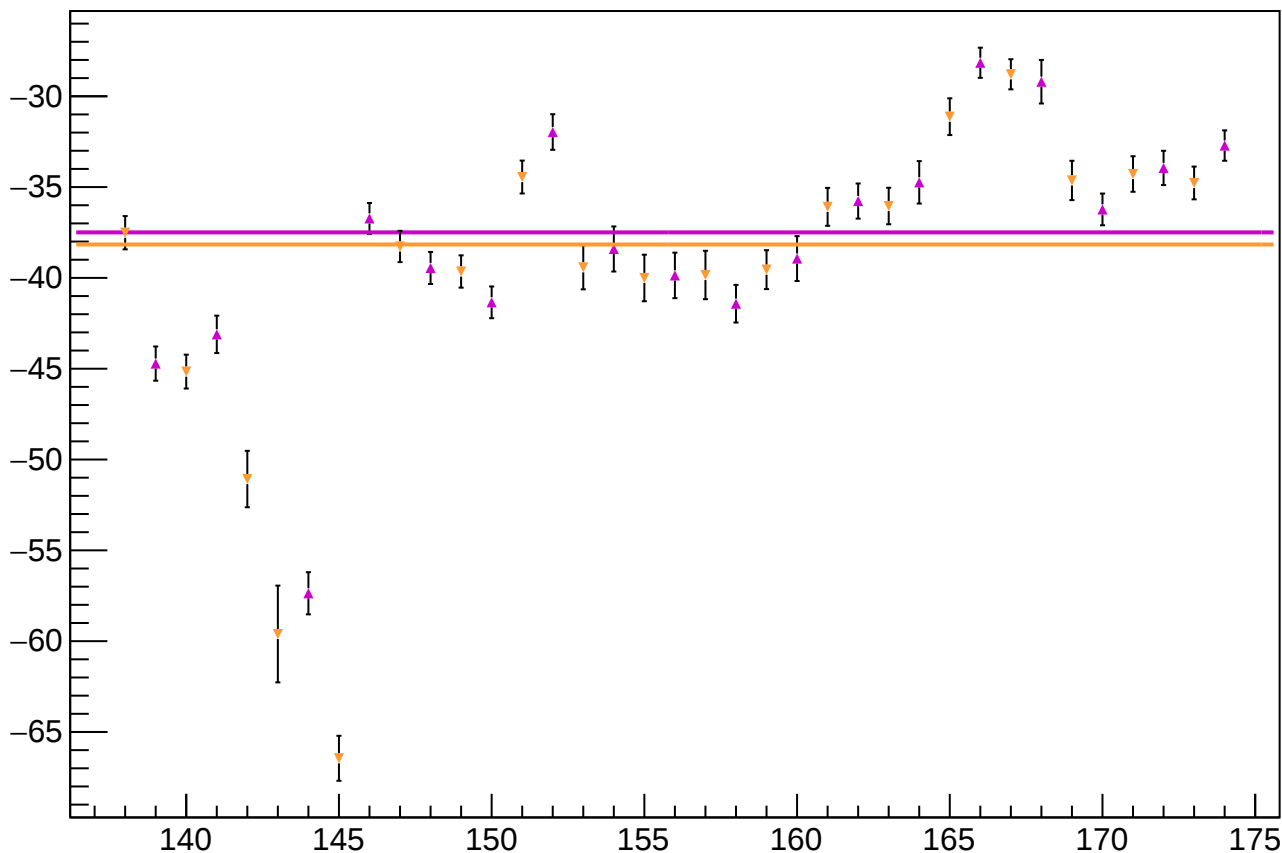
Right:  $-20.393 \pm 0.011$   $\chi^2/\text{NDF}$ : 120979.2/32

In:  $-20.447 \pm 0.008$   $\chi^2/\text{NDF}$ : 142860.1/33

Out:  $-20.851 \pm 0.008$   $\chi^2/\text{NDF}$ : 245863.1/35

All:  $-20.644 \pm 0.006$   $\chi^2/\text{NDF}$ : 390038.6/69

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



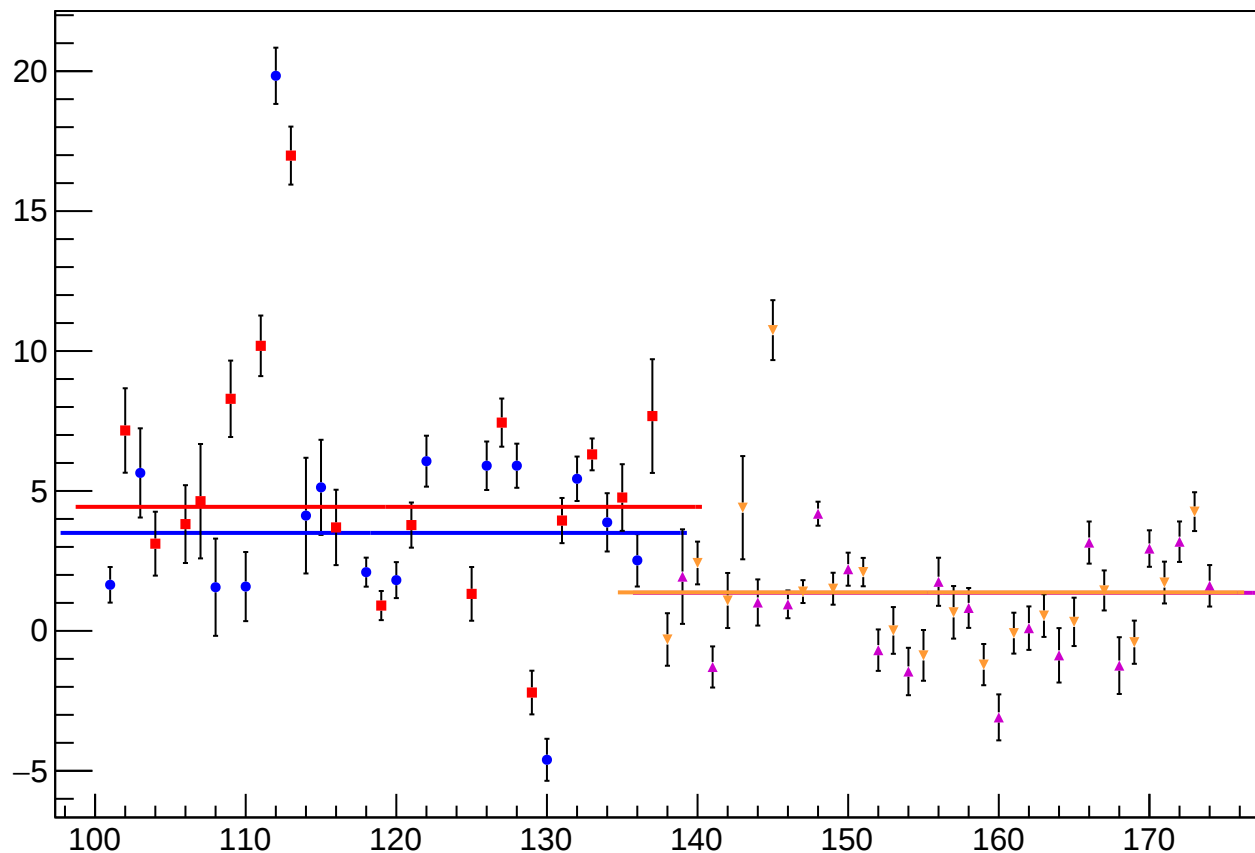
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -38.161+/-0.239  $\chi^2/\text{NDF}$ :963.1/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -37.493+/-0.232  $\chi^2/\text{NDF}$ :690.9/17

Left: -37.819+/-0.166  $\chi^2/\text{NDF}$ : 1658.1/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.493+/-0.232  $\chi^2/\text{NDF}$ :690.9/17  
 Out: -38.161+/-0.239  $\chi^2/\text{NDF}$ :963.1/18

All: -37.819+/-0.166  $\chi^2/\text{NDF}$ : 1658.1/36

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.501 $\pm$ 0.218  $\chi^2$ /NDF: 441.9/15

Left Out: 1.376 $\pm$ 0.167  $\chi^2$ /NDF:137.8/18

Right Out: 4.432 $\pm$ 0.225  $\chi^2$ /NDF: 343.6/16

Left In: 1.360 $\pm$ 0.168  $\chi^2$ /NDF:140.9/17

Left: 1.368 $\pm$ 0.118  $\chi^2$ /NDF: 278.6/36

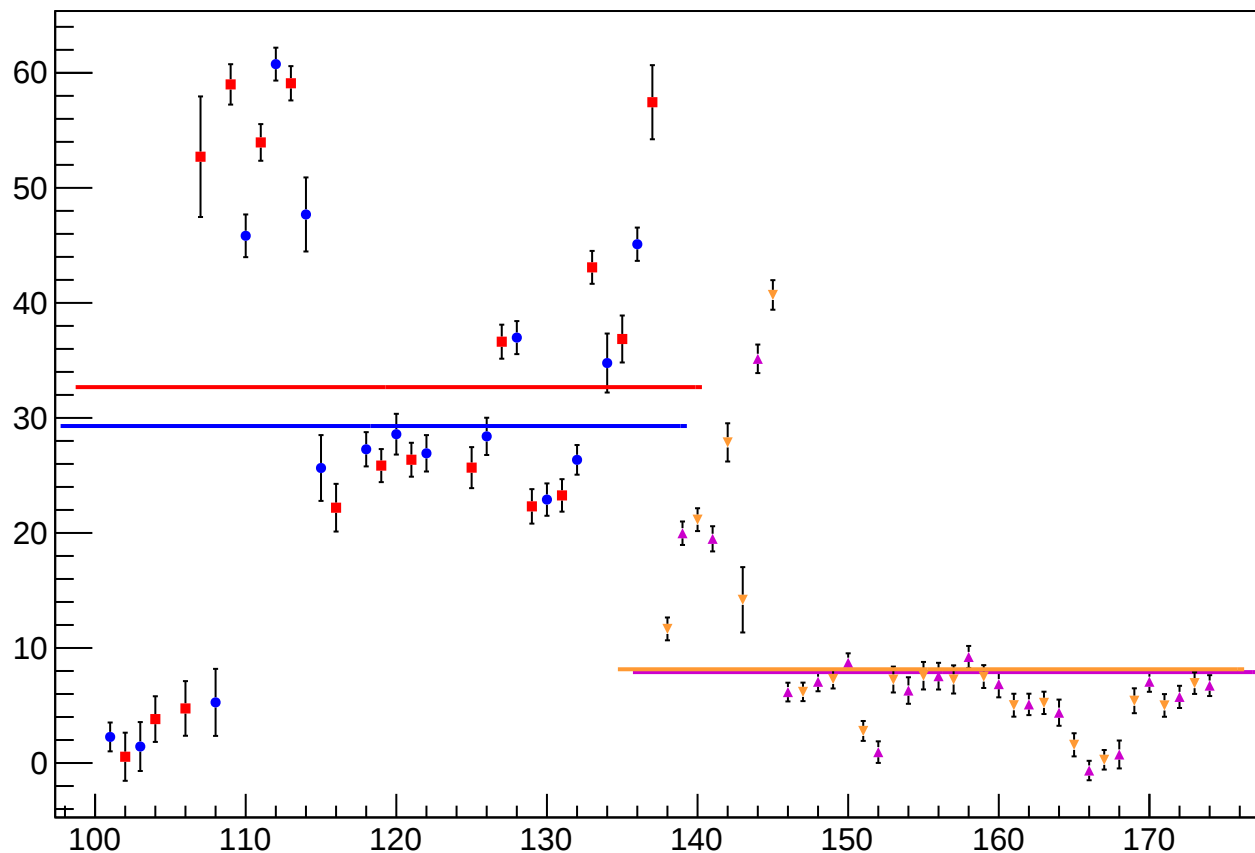
Right: 3.951 $\pm$ 0.156  $\chi^2$ /NDF: 794.3/32

In: 2.158 $\pm$ 0.133  $\chi^2$ /NDF:643.5/33

Out: 2.456 $\pm$ 0.134  $\chi^2$ /NDF:600.4/35

All: 2.306 $\pm$ 0.094  $\chi^2$ /NDF: 1246.5/69

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $29.297 \pm 0.417$   $\chi^2/\text{NDF}$ : 1485.2/15

Left Out:  $8.149 \pm 0.235$   $\chi^2/\text{NDF}$ : 1183.2/18

Right Out:  $32.679 \pm 0.423$   $\chi^2/\text{NDF}$ : 1614.8/16

Left In:  $7.903 \pm 0.229$   $\chi^2/\text{NDF}$ : 964.2/17

Left:  $8.023 \pm 0.164$   $\chi^2/\text{NDF}$ : 2147.9/36

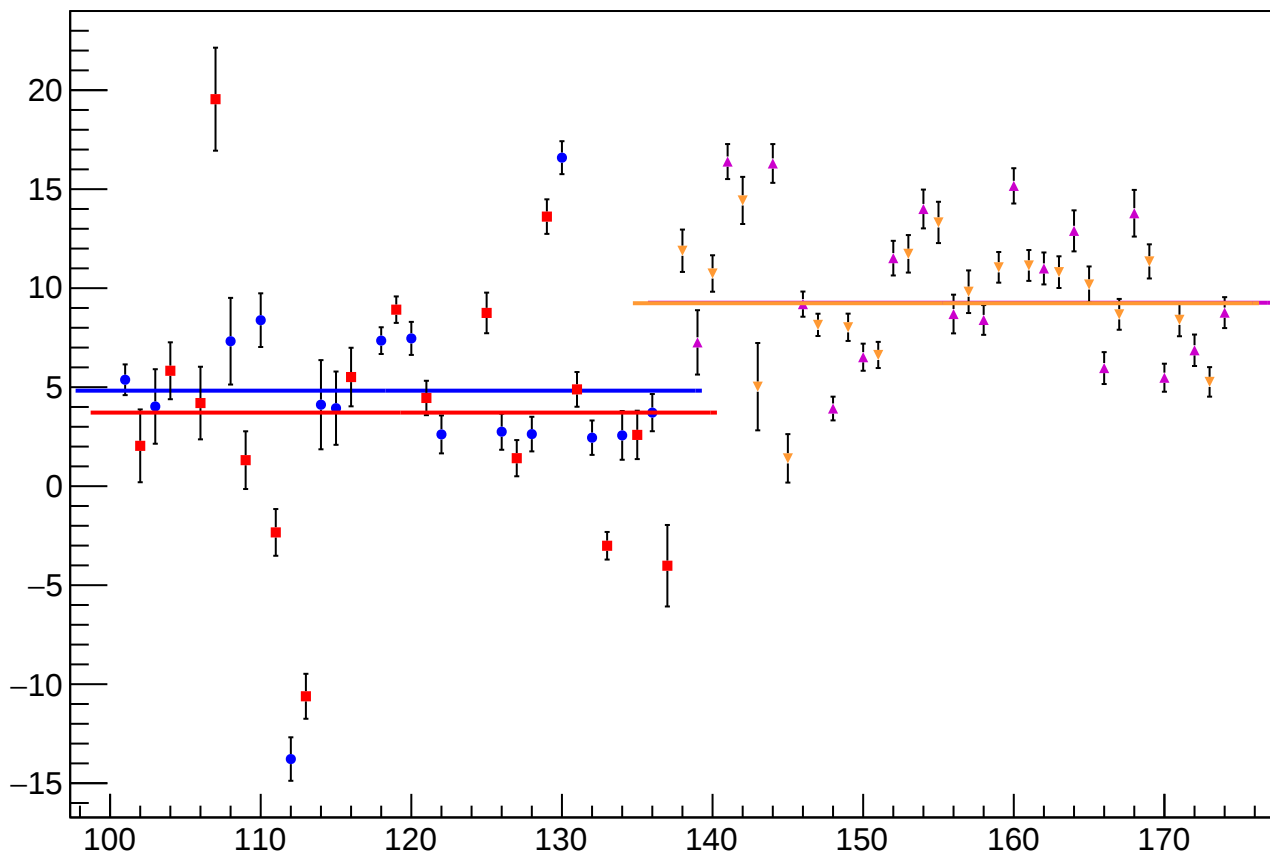
Right:  $30.964 \pm 0.297$   $\chi^2/\text{NDF}$ : 3132.4/32

In:  $12.872 \pm 0.201$   $\chi^2/\text{NDF}$ : 4467.9/33

Out:  $13.937 \pm 0.206$   $\chi^2/\text{NDF}$ : 5364.9/35

All:  $13.393 \pm 0.144$   $\chi^2/\text{NDF}$ : 9846.6/69

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}: 549.2/15$

Left Out:  $9.240 \pm 0.195$   $\chi^2/\text{NDF}: 169.8/18$

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}: 559.9/16$

Left In:  $9.264 \pm 0.194$   $\chi^2/\text{NDF}: 375.9/17$

Left:  $9.252 \pm 0.138$   $\chi^2/\text{NDF}: 545.7/36$

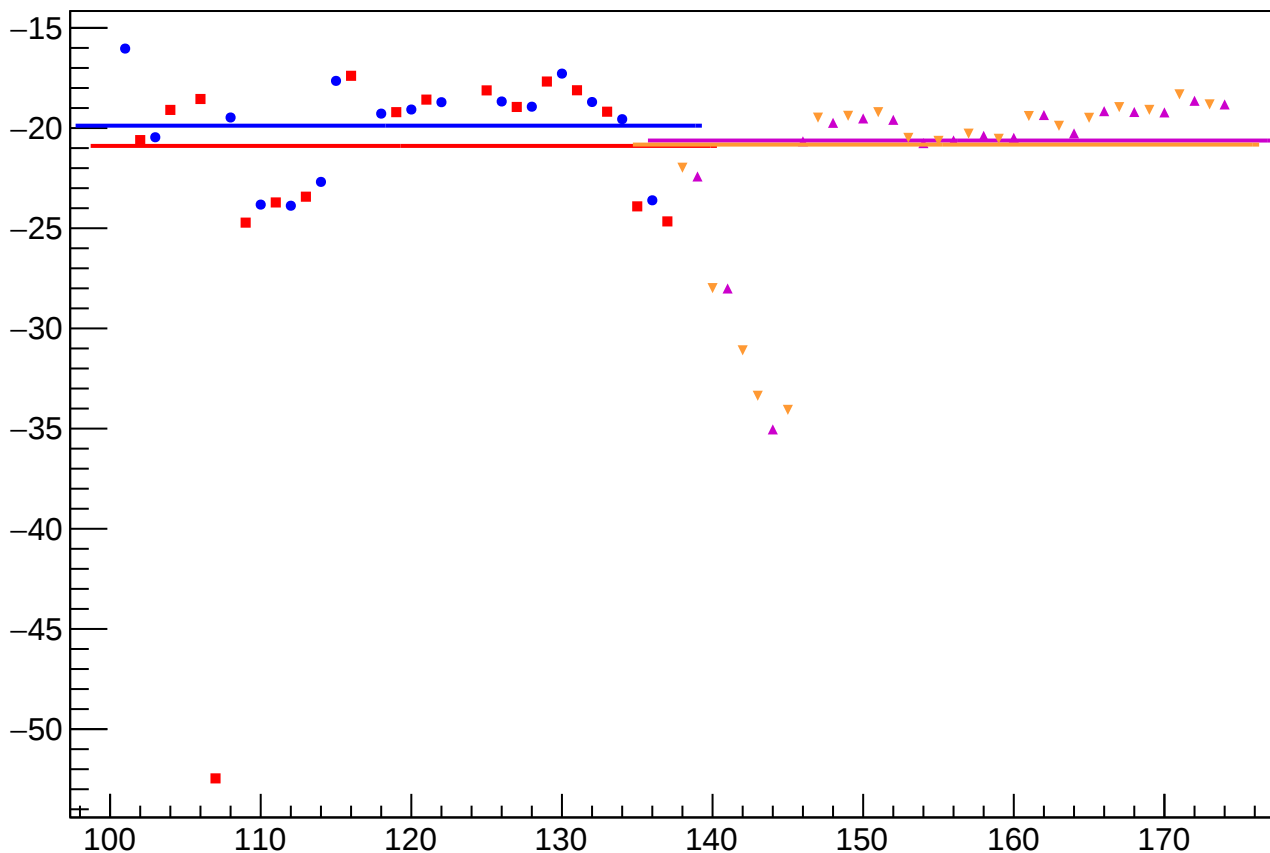
Right:  $4.286 \pm 0.180$   $\chi^2/\text{NDF}: 1118.6/32$

In:  $7.604 \pm 0.154$   $\chi^2/\text{NDF}: 1120.3/33$

Out:  $7.244 \pm 0.156$   $\chi^2/\text{NDF}: 1020.8/35$

All:  $7.426 \pm 0.109$   $\chi^2/\text{NDF}: 2143.7/69$

reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.880 \pm 0.016$   $\chi^2/\text{NDF}$ : 26082.0/15

Left Out:  $-20.825 \pm 0.009$   $\chi^2/\text{NDF}$ : 153161.3/18

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}$ : 92913.6/16

Left In:  $-20.623 \pm 0.009$   $\chi^2/\text{NDF}$ : 114970.3/17

Left:  $-20.721 \pm 0.006$   $\chi^2/\text{NDF}$ : 268379.0/36

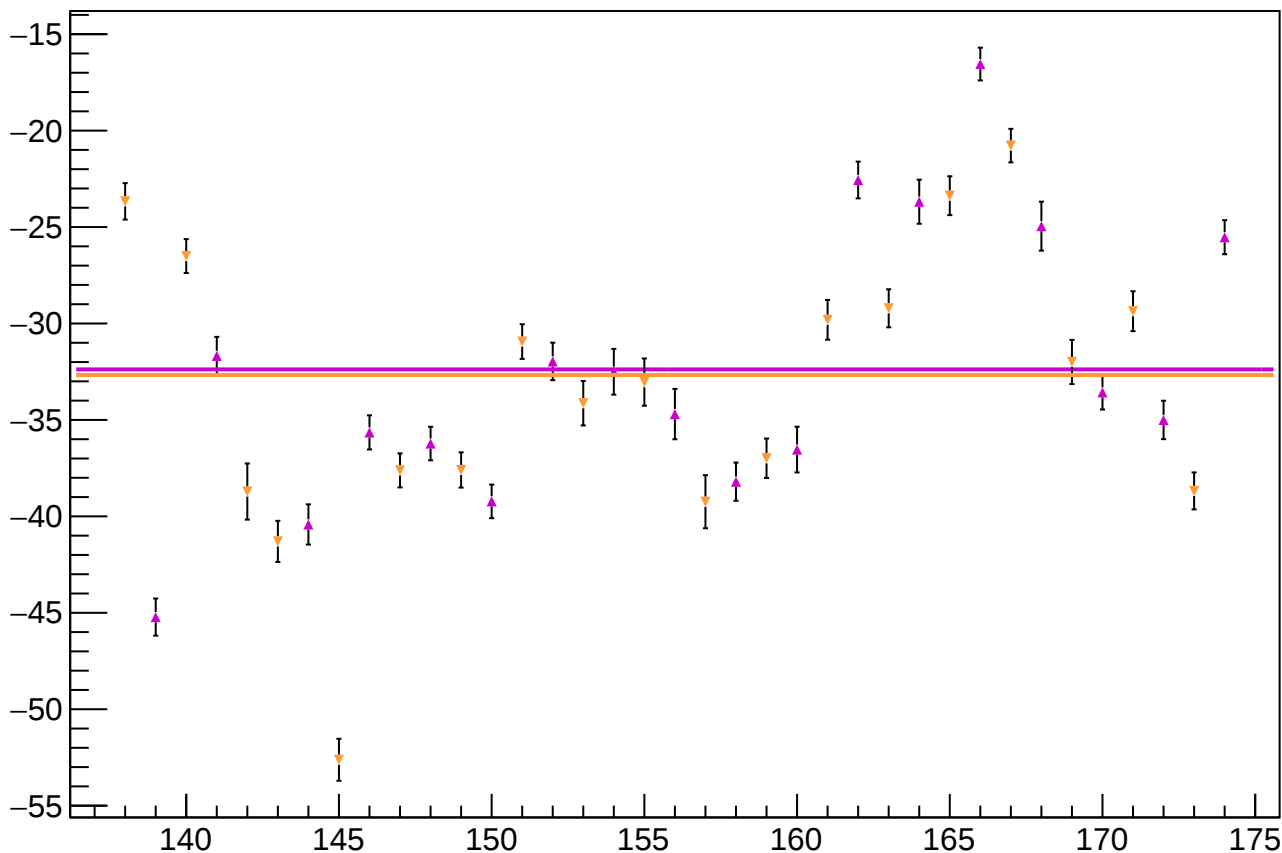
Right:  $-20.381 \pm 0.011$   $\chi^2/\text{NDF}$ : 121077.9/32

In:  $-20.438 \pm 0.008$   $\chi^2/\text{NDF}$ : 142758.6/33

Out:  $-20.842 \pm 0.008$   $\chi^2/\text{NDF}$ : 246087.8/35

All:  $-20.635 \pm 0.006$   $\chi^2/\text{NDF}$ : 390163.7/69

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: -32.672+/-0.234  $\chi^2/\text{NDF}$ :1006.6/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -32.381+/-0.233  $\chi^2/\text{NDF}$ :998.8/17

Left: -32.526+/-0.165  $\chi^2/\text{NDF}$ : 2006.2/36

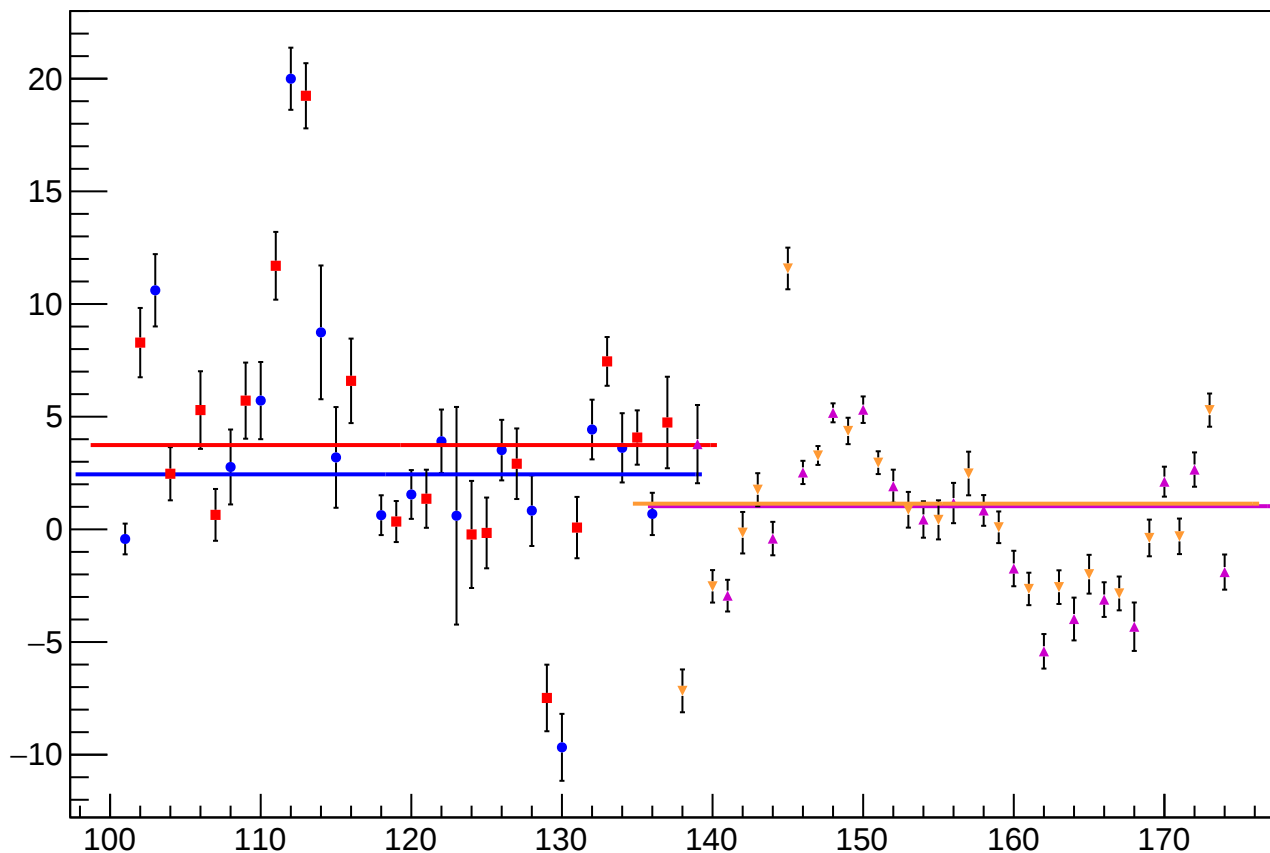
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -32.381+/-0.233  $\chi^2/\text{NDF}$ :998.8/17

Out: -32.672+/-0.234  $\chi^2/\text{NDF}$ :1006.6/18

All: -32.526+/-0.165  $\chi^2/\text{NDF}$ : 2006.2/36

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:  $1.140 \pm 0.163$   $\chi^2/\text{NDF}: 439.1/18$

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}: 268.1/17$

Left In:  $1.028 \pm 0.167$   $\chi^2/\text{NDF}: 384.4/17$

Left:  $1.085 \pm 0.117$   $\chi^2/\text{NDF}: 823.7/36$

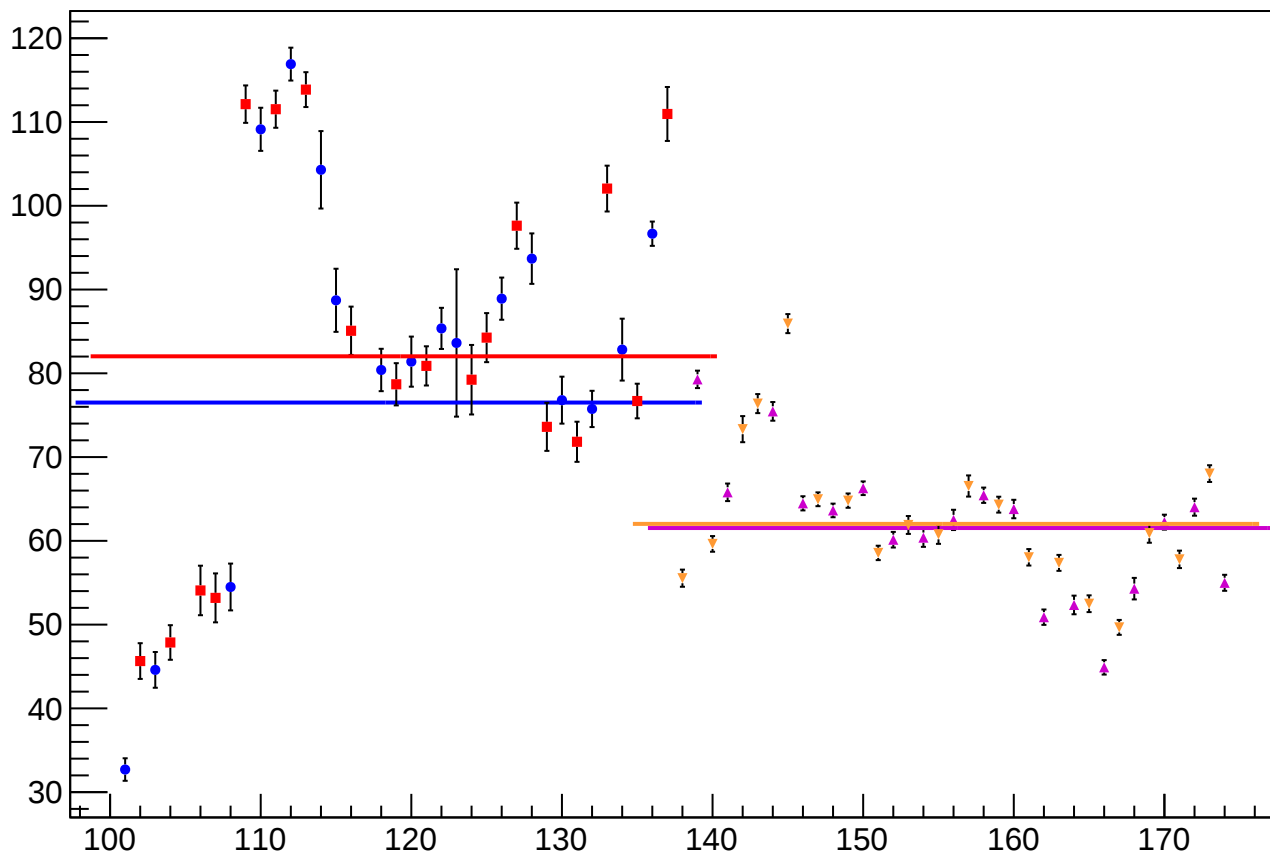
Right:  $3.060 \pm 0.225$   $\chi^2/\text{NDF}: 571.1/34$

In:  $1.344 \pm 0.147$   $\chi^2/\text{NDF}: 695.1/34$

Out:  $1.659 \pm 0.146$   $\chi^2/\text{NDF}: 758.0/36$

All:  $1.503 \pm 0.104$   $\chi^2/\text{NDF}: 1455.4/71$

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.509+/-0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 62.024+/-0.231  $\chi^2$ /NDF:1137.0/18

Right Out: 82.029+/-0.593  $\chi^2$ /NDF: 1548.0/17

Left In: 61.530+/-0.230  $\chi^2$ /NDF:1200.5/17

Left: 61.775+/-0.163  $\chi^2$ /NDF: 2339.8/36

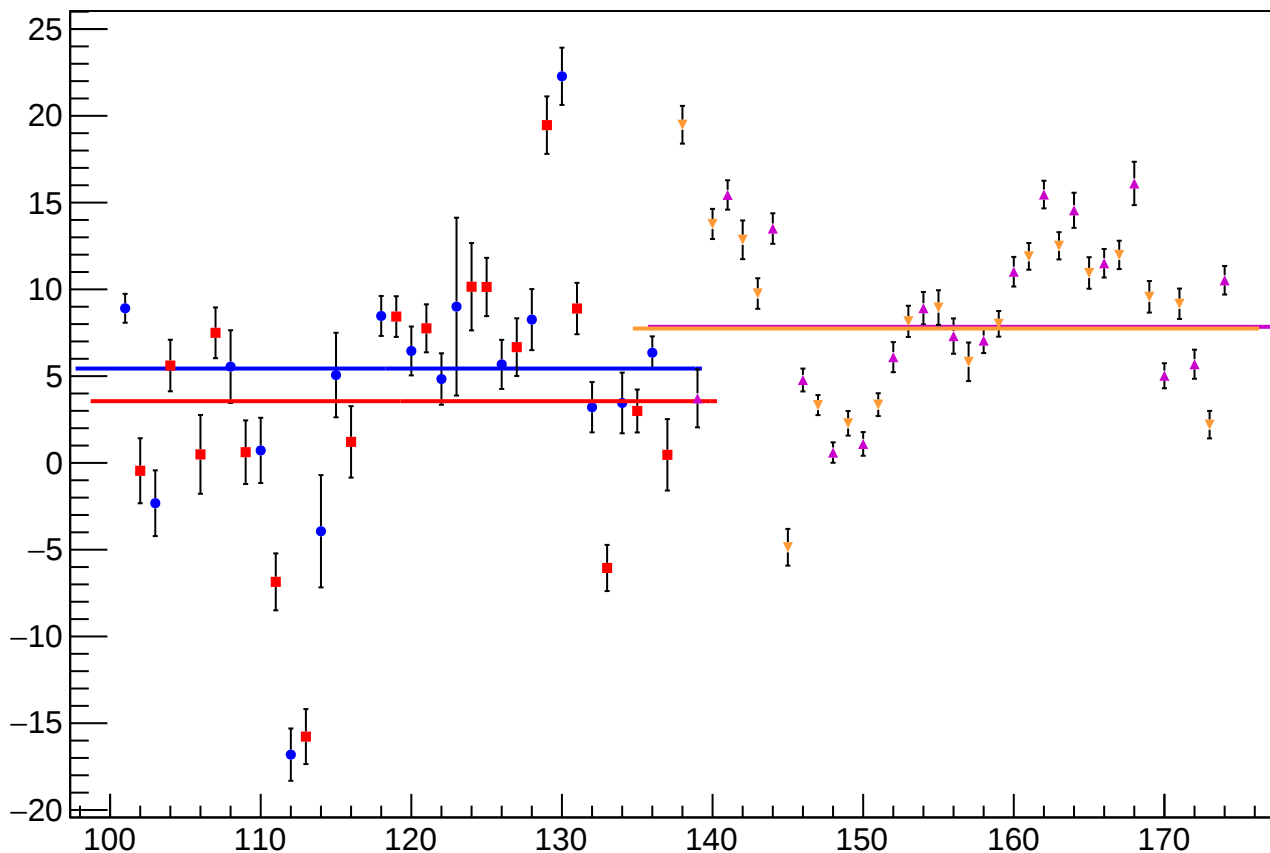
Right: 79.182+/-0.412  $\chi^2$ /NDF: 3843.6/34

In: 63.593+/-0.213  $\chi^2$ /NDF:4038.3/34

Out: 64.666+/-0.215  $\chi^2$ /NDF:3674.0/36

All: 64.124+/-0.151  $\chi^2$ /NDF: 7724.9/71

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: 7.745 $\pm$ 0.191  $\chi^2$ /NDF:661.0/18

Right Out: 3.557 $\pm$ 0.375  $\chi^2$ /NDF: 420.6/17

Left In: 7.843 $\pm$ 0.194  $\chi^2$ /NDF:651.2/17

Left: 7.793 $\pm$ 0.136  $\chi^2$ /NDF: 1312.3/36

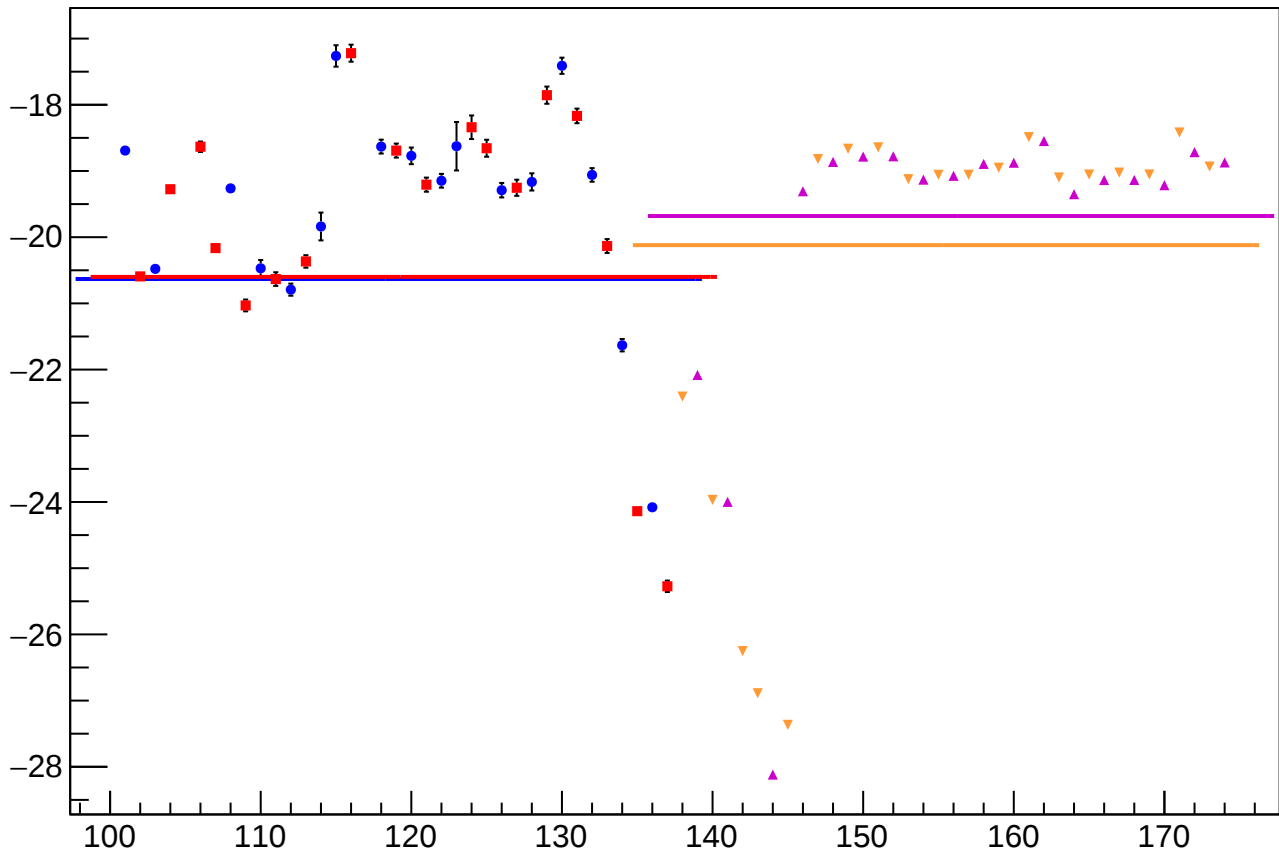
Right: 4.542 $\pm$ 0.259  $\chi^2$ /NDF: 819.9/34

In: 7.297 $\pm$ 0.170  $\chi^2$ /NDF:1072.2/34

Out: 6.885 $\pm$ 0.170  $\chi^2$ /NDF:1180.6/36

All: 7.090 $\pm$ 0.120  $\chi^2$ /NDF: 2255.8/71

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-20.631 \pm 0.019$   $\chi^2/\text{NDF}: 12501.6/16$

Left Out:  $-20.120 \pm 0.009$   $\chi^2/\text{NDF}: 85088.3/18$

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}: 11973.7/17$

Left In:  $-19.680 \pm 0.009$   $\chi^2/\text{NDF}: 50689.5/17$

Left:  $-19.898 \pm 0.006$   $\chi^2/\text{NDF}: 136964.9/36$

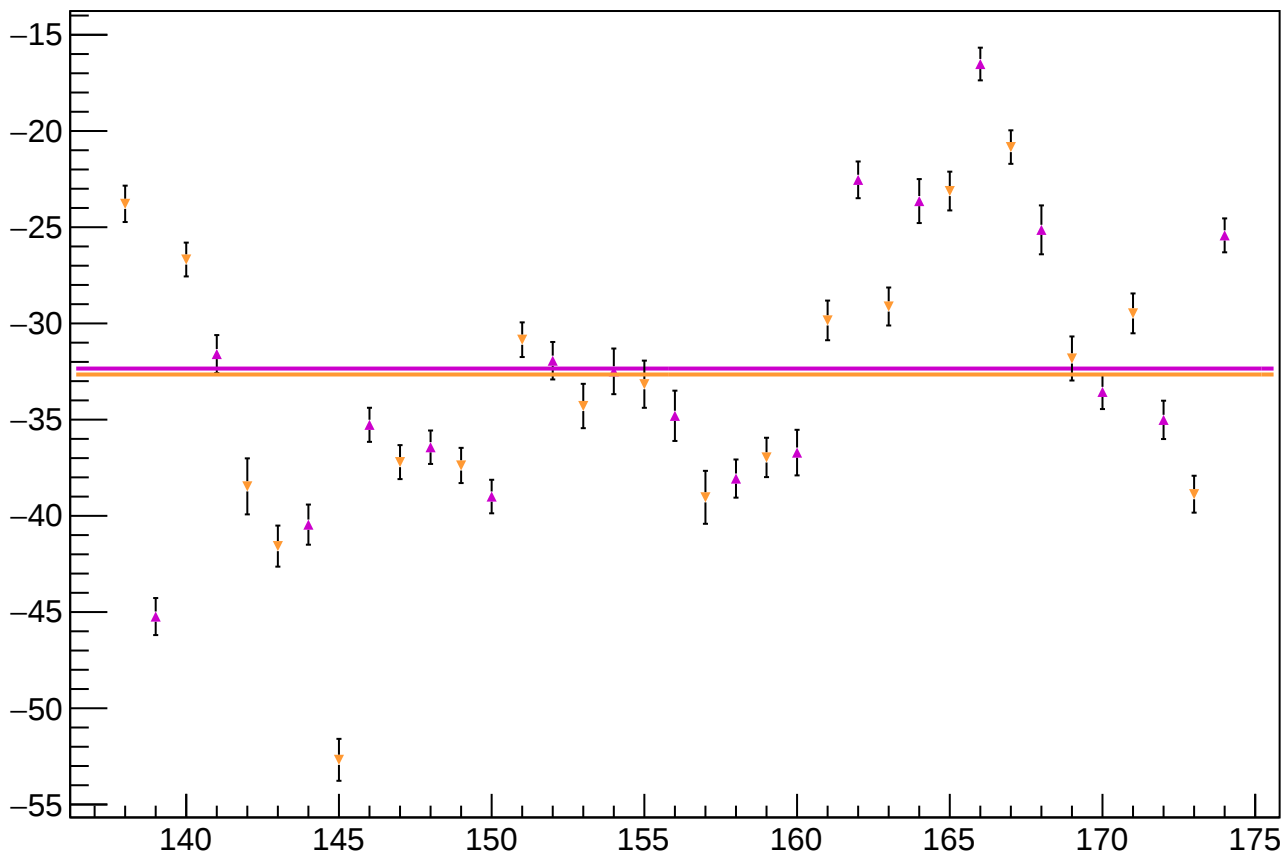
Right:  $-20.616 \pm 0.014$   $\chi^2/\text{NDF}: 24476.6/34$

In:  $-19.849 \pm 0.008$   $\chi^2/\text{NDF}: 65189.1/34$

Out:  $-20.206 \pm 0.008$   $\chi^2/\text{NDF}: 97561.7/36$

All:  $-20.026 \pm 0.006$   $\chi^2/\text{NDF}: 163700.0/71$

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: -32.654+/-0.234  $\chi^2/\text{NDF}$ :1002.5/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -32.345+/-0.233  $\chi^2/\text{NDF}$ :995.8/17

Left: -32.499+/-0.165  $\chi^2/\text{NDF}$ : 1999.2/36

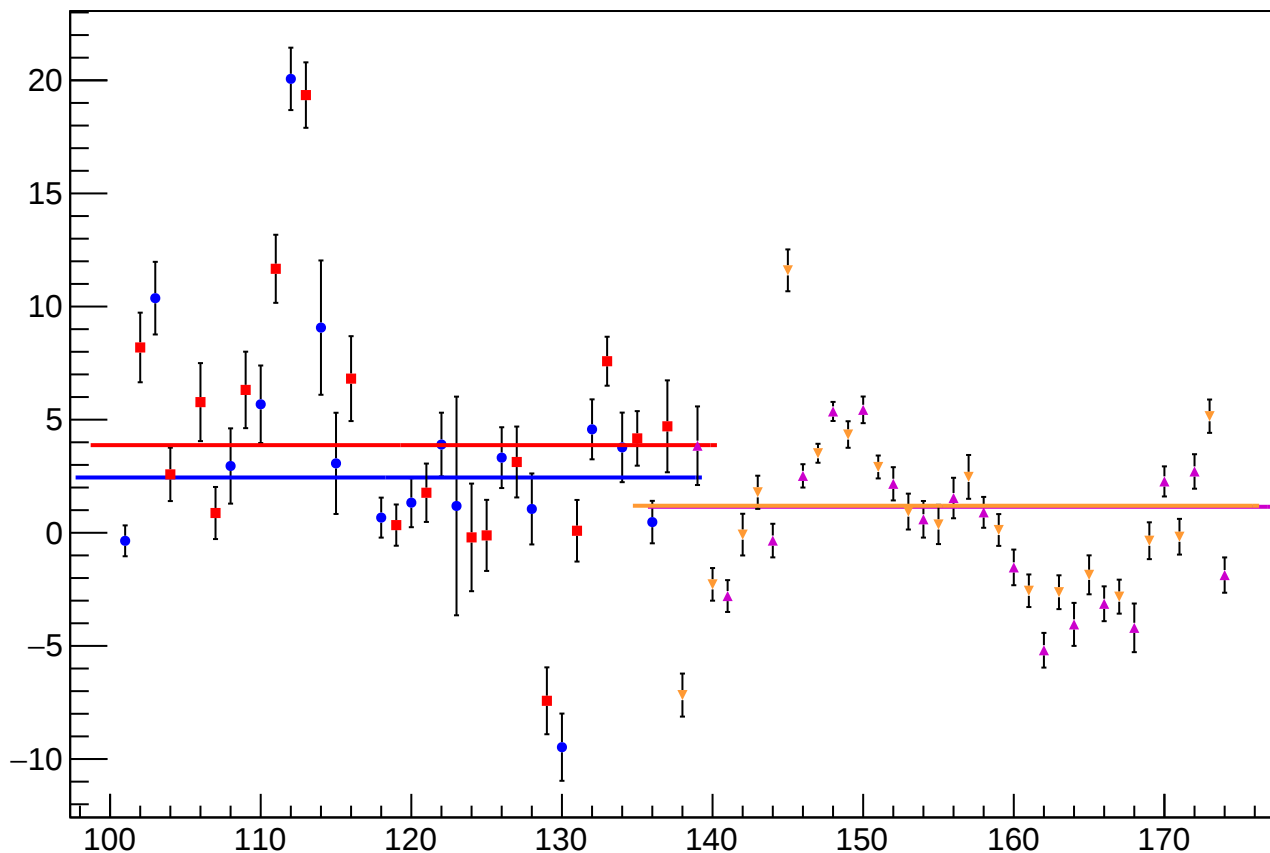
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -32.345+/-0.233  $\chi^2/\text{NDF}$ :995.8/17

Out: -32.654+/-0.234  $\chi^2/\text{NDF}$ :1002.5/18

All: -32.499+/-0.165  $\chi^2/\text{NDF}$ : 1999.2/36

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.444 $\pm$ 0.312  $\chi^2$ /NDF: 292.7/16

Left Out: 1.195 $\pm$ 0.163  $\chi^2$ /NDF:436.0/18

Right Out: 3.874 $\pm$ 0.327  $\chi^2$ /NDF: 268.3/17

Left In: 1.149 $\pm$ 0.167  $\chi^2$ /NDF:388.3/17

Left: 1.173 $\pm$ 0.117  $\chi^2$ /NDF: 824.3/36

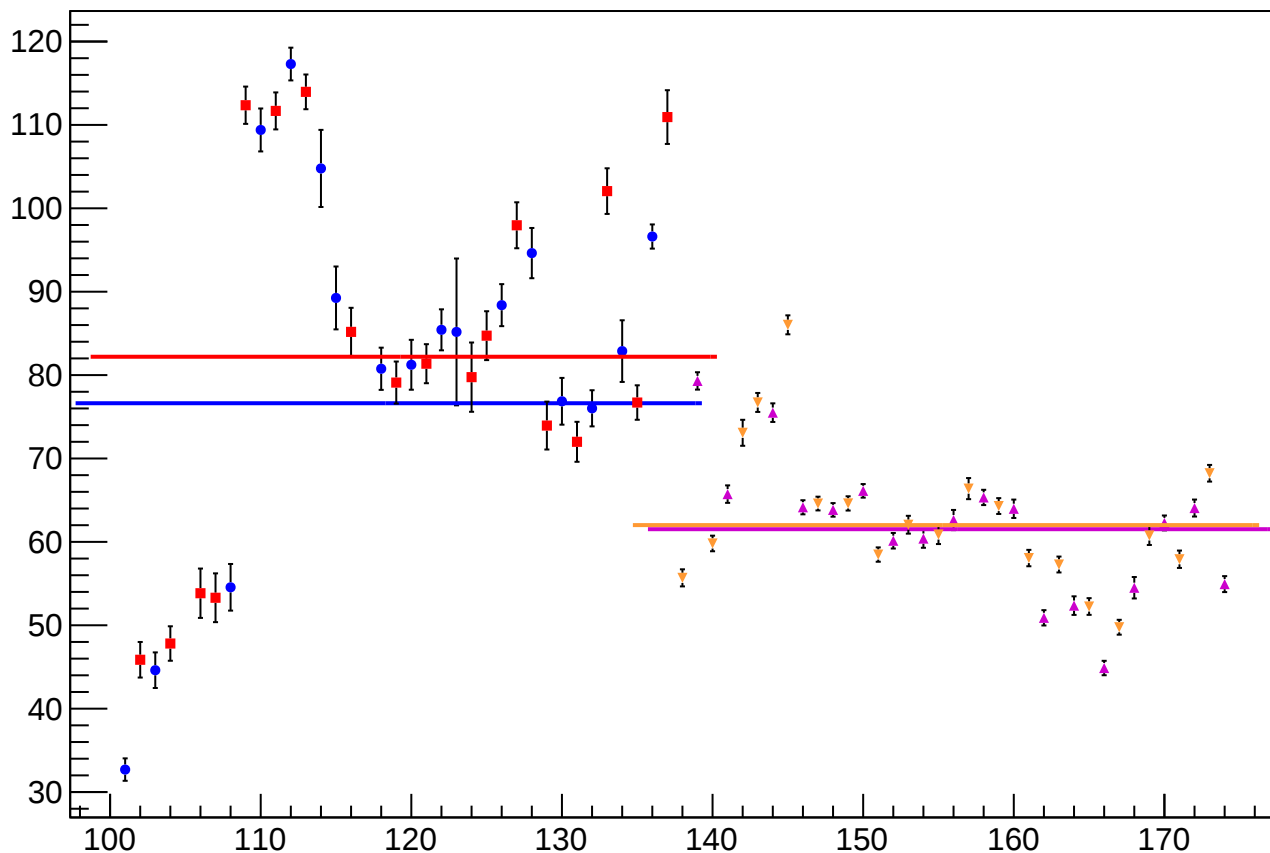
Right: 3.125 $\pm$ 0.226  $\chi^2$ /NDF: 571.0/34

In: 1.438 $\pm$ 0.147  $\chi^2$ /NDF:694.4/34

Out: 1.730 $\pm$ 0.146  $\chi^2$ /NDF:758.0/36

All: 1.585 $\pm$ 0.104  $\chi^2$ /NDF: 1454.4/71

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: 62.012 $\pm$ 0.231  $\chi^2$ /NDF:1141.0/18

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

Left In: 61.521 $\pm$ 0.230  $\chi^2$ /NDF:1196.3/17

Left: 61.765 $\pm$ 0.163  $\chi^2$ /NDF: 2339.6/36

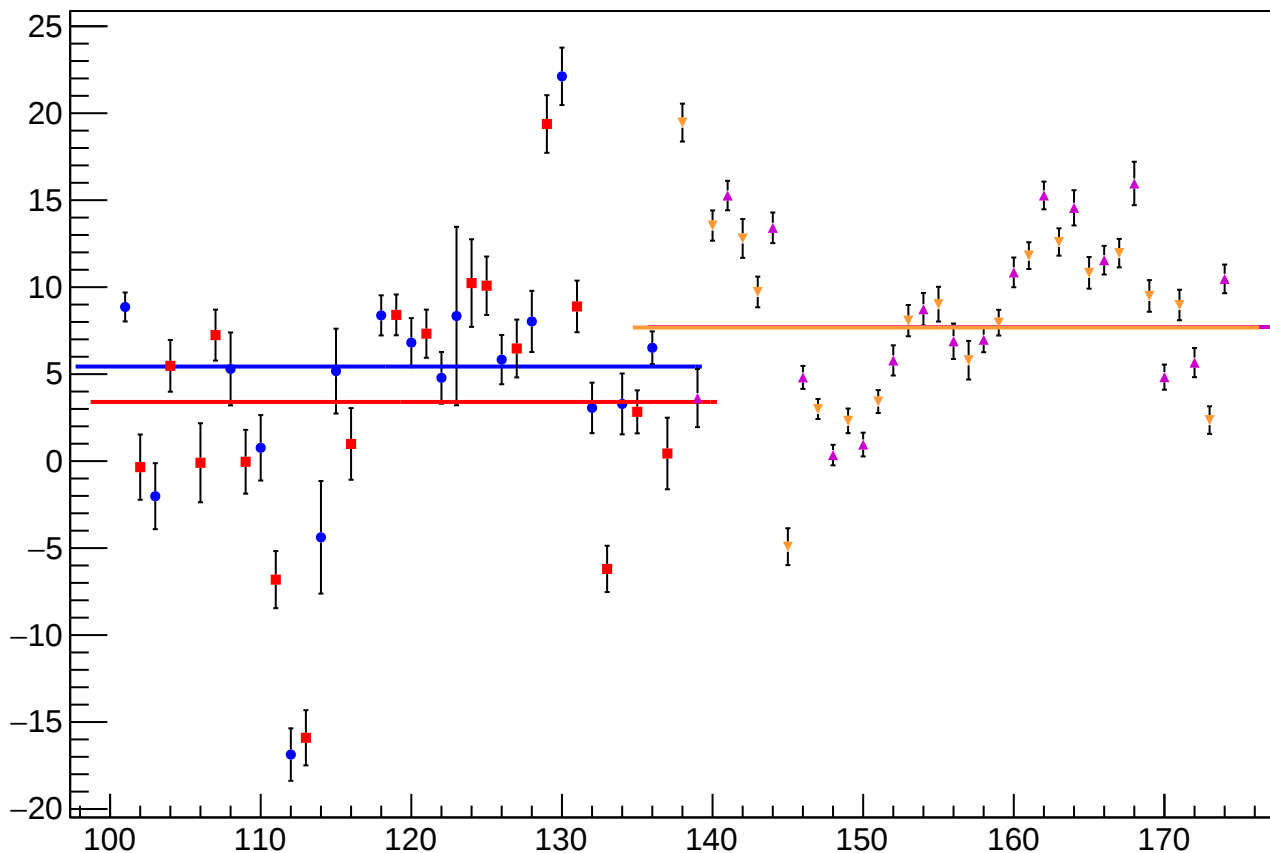
Right: 79.325 $\pm$ 0.413  $\chi^2$ /NDF: 3858.6/34

In: 63.603 $\pm$ 0.213  $\chi^2$ /NDF:4055.2/34

Out: 64.679 $\pm$ 0.215  $\chi^2$ /NDF:3697.4/36

All: 64.135 $\pm$ 0.152  $\chi^2$ /NDF: 7765.2/71

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:  $7.682 \pm 0.191$   $\chi^2/\text{NDF}$ : 659.2/18

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}$ : 420.9/17

Left In:  $7.710 \pm 0.194$   $\chi^2/\text{NDF}$ : 656.6/17

Left:  $7.696 \pm 0.136$   $\chi^2/\text{NDF}$ : 1315.7/36

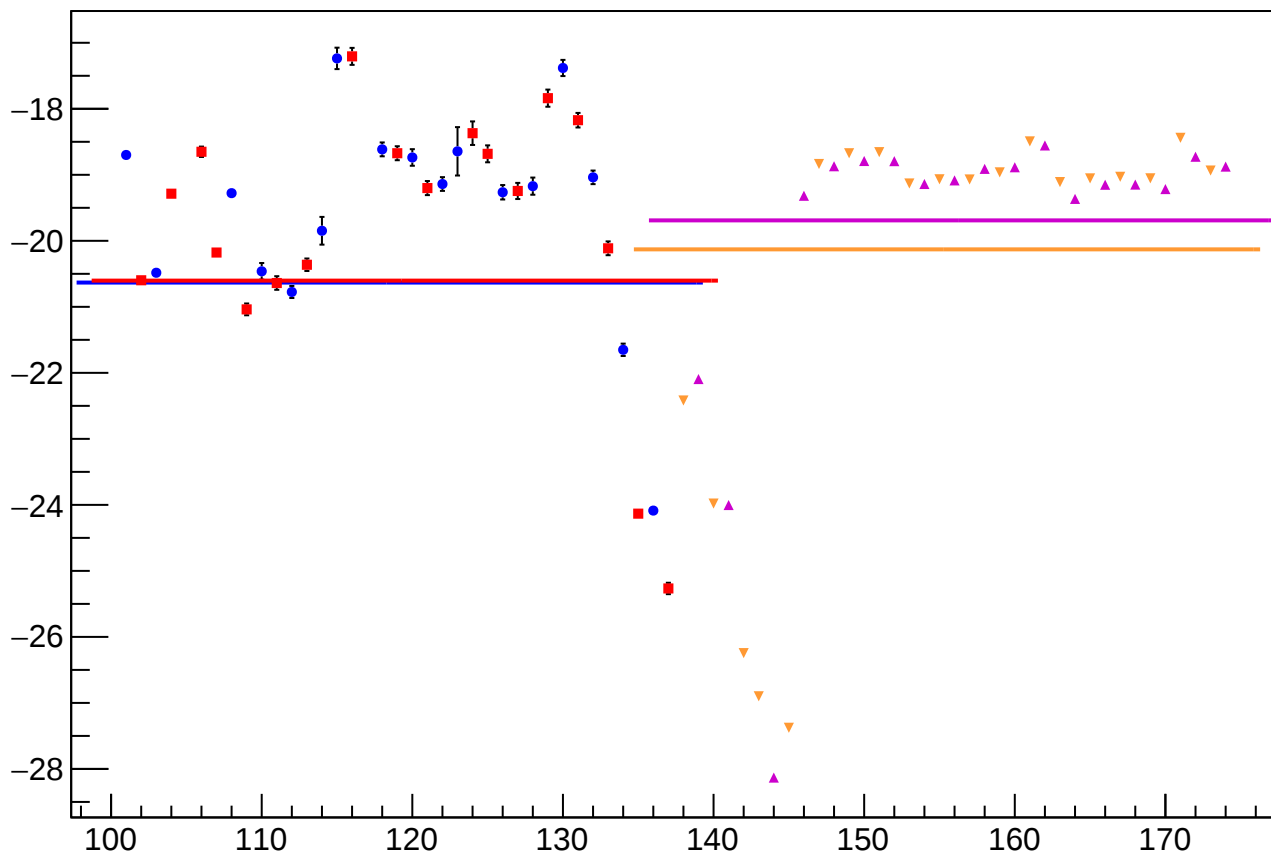
Right:  $4.467 \pm 0.259$   $\chi^2/\text{NDF}$ : 820.8/34

In:  $7.194 \pm 0.171$   $\chi^2/\text{NDF}$ : 1072.2/34

Out:  $6.803 \pm 0.170$   $\chi^2/\text{NDF}$ : 1183.3/36

All:  $6.998 \pm 0.120$   $\chi^2/\text{NDF}$ : 2258.2/71

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: -20.129 $\pm$ 0.009  $\chi^2$ /NDF: 84950.6/18

Right Out: -20.603 $\pm$ 0.019  $\chi^2$ /NDF: 11925.8/17

Left In: -19.690 $\pm$ 0.009  $\chi^2$ /NDF: 50632.3/17

Left: -19.907 $\pm$ 0.006  $\chi^2$ /NDF: 136764.4/36

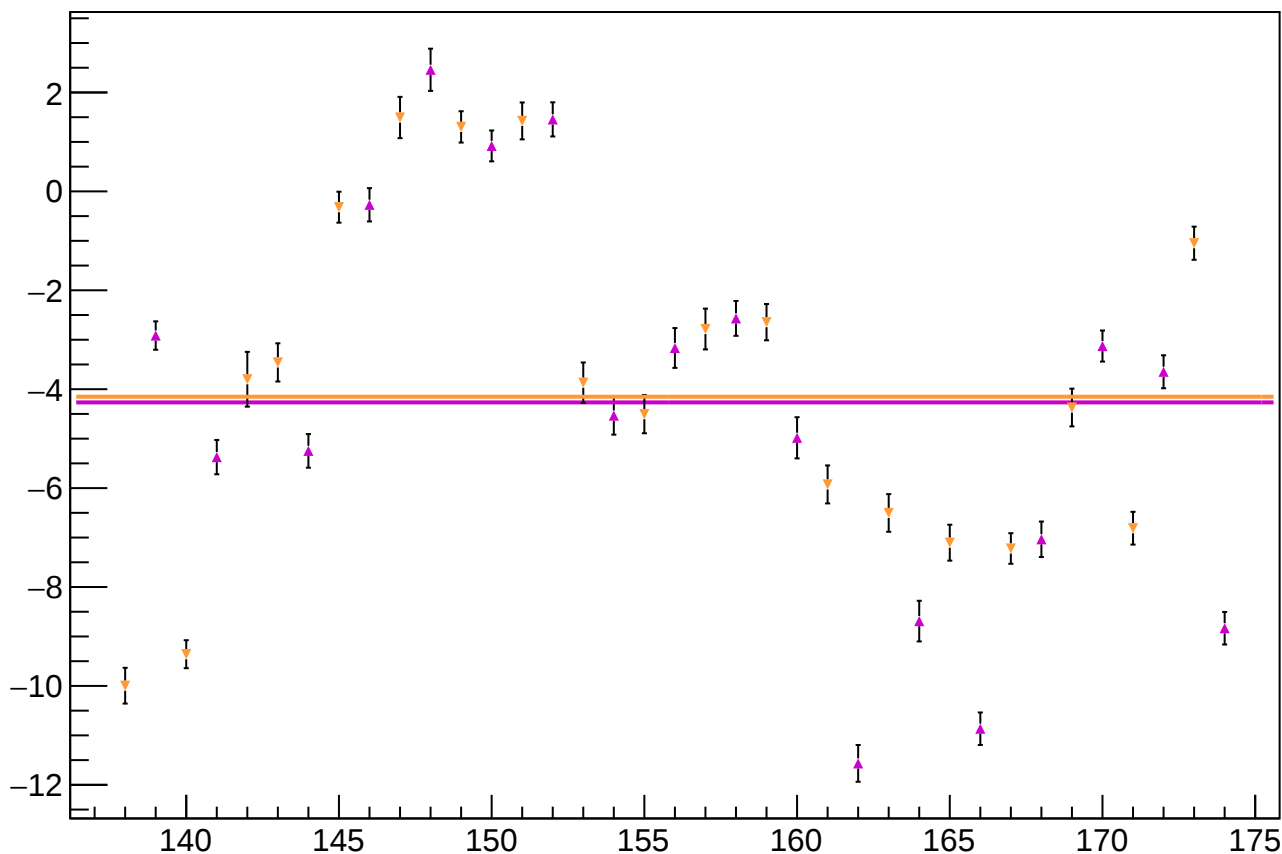
Right: -20.618 $\pm$ 0.014  $\chi^2$ /NDF: 24470.2/34

In: -19.858 $\pm$ 0.008  $\chi^2$ /NDF: 65133.0/34

Out: -20.214 $\pm$ 0.008  $\chi^2$ /NDF: 97362.1/36

All: -20.034 $\pm$ 0.006  $\chi^2$ /NDF: 163441.5/71

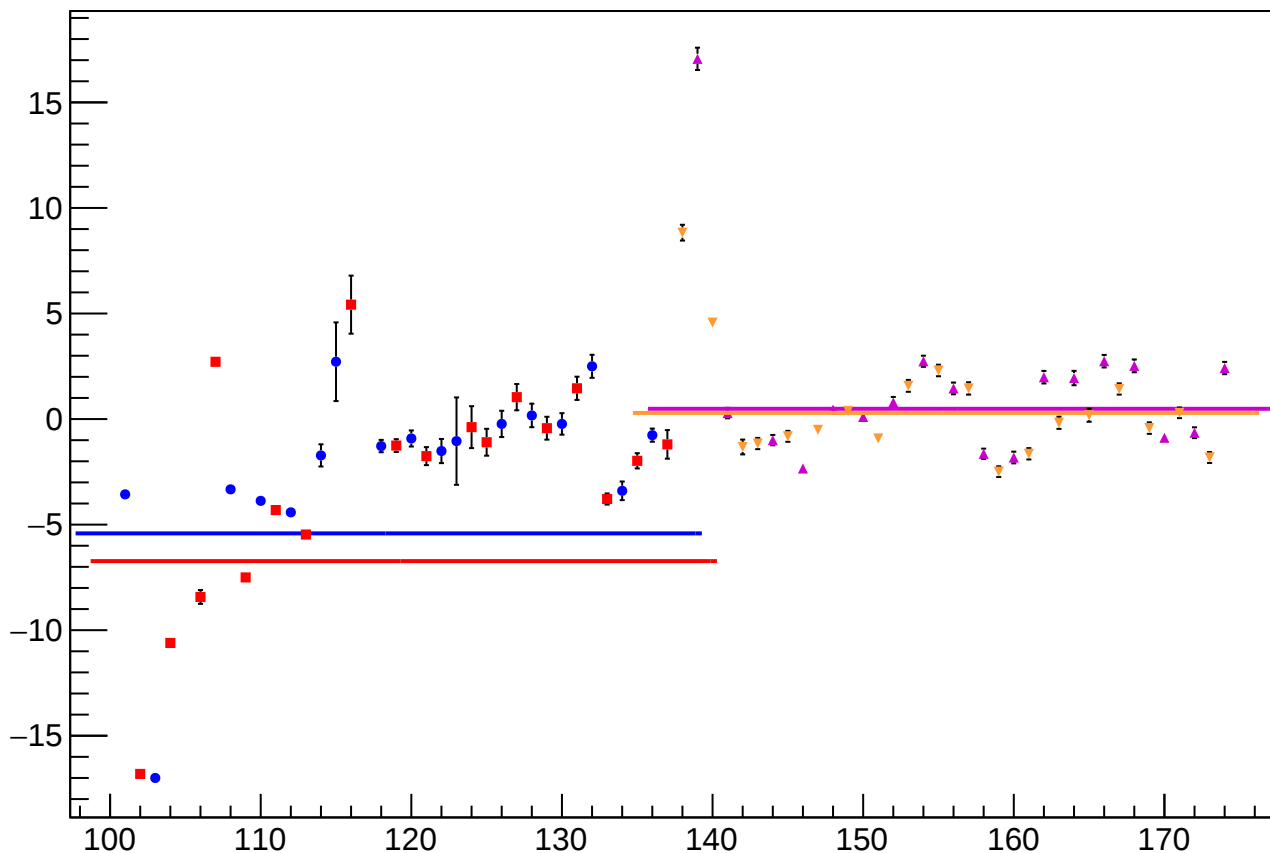
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-4.152 \pm 0.083$   $\chi^2/\text{NDF}: 1859.7/18$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-4.267 \pm 0.082$   $\chi^2/\text{NDF}: 2187.0/17$

Left:  $-4.210 \pm 0.058$   $\chi^2/\text{NDF}: 4047.6/36$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-4.267 \pm 0.082$   $\chi^2/\text{NDF}: 2187.0/17$   
 Out:  $-4.152 \pm 0.083$   $\chi^2/\text{NDF}: 1859.7/18$   
 All:  $-4.210 \pm 0.058$   $\chi^2/\text{NDF}: 4047.6/36$

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:  $0.291 \pm 0.060$   $\chi^2/\text{NDF}$ : 1324.3/18

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}$ : 11217.0/17

Left In:  $0.487 \pm 0.062$   $\chi^2/\text{NDF}$ : 1674.7/17

Left:  $0.386 \pm 0.043$   $\chi^2/\text{NDF}$ : 3004.2/36

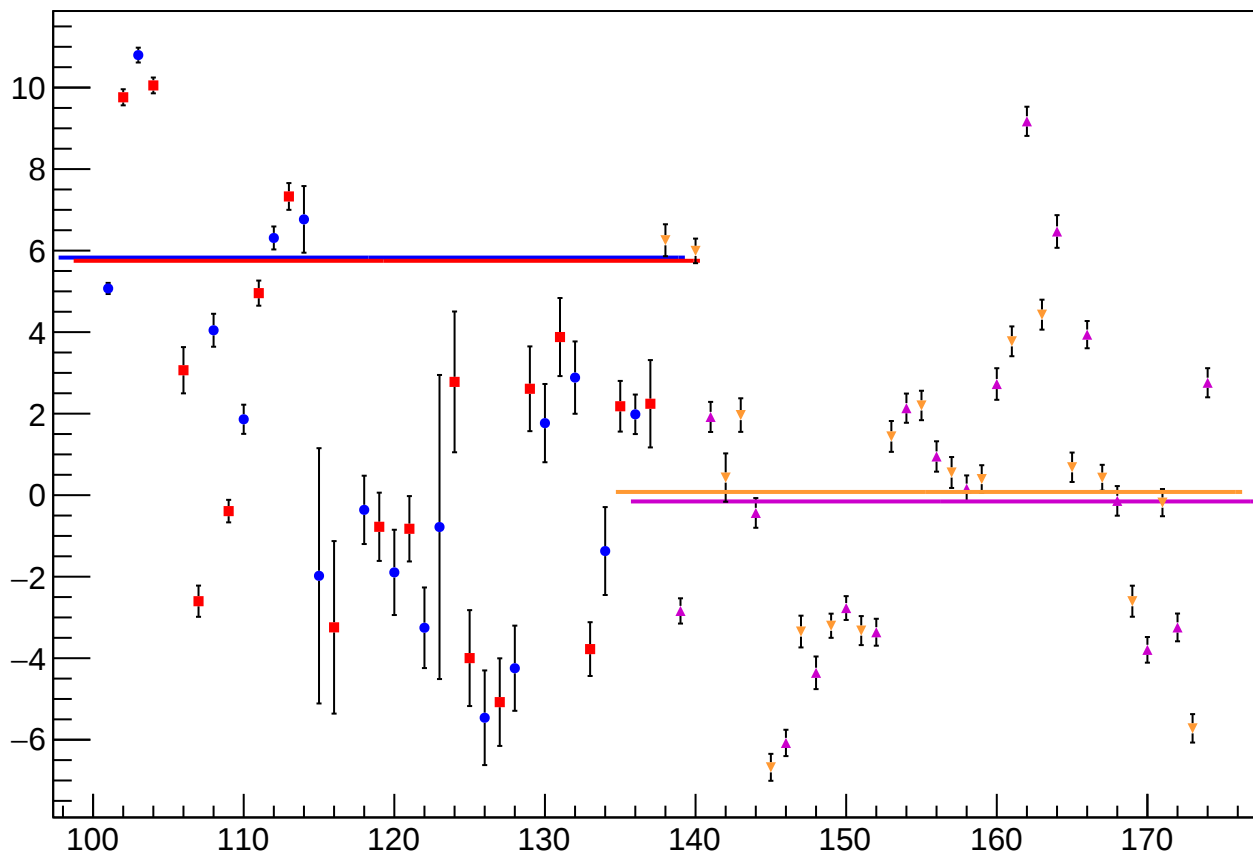
Right:  $-6.014 \pm 0.040$   $\chi^2/\text{NDF}$ : 20734.4/34

In:  $-2.815 \pm 0.041$   $\chi^2/\text{NDF}$ : 16047.5/34

Out:  $-3.223 \pm 0.042$   $\chi^2/\text{NDF}$ : 19419.5/36

All:  $-3.012 \pm 0.029$   $\chi^2/\text{NDF}$ : 35514.9/71

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:  $0.079 \pm 0.082$   $\chi^2/\text{NDF}: 1985.2/18$

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}: 2511.0/17$

Left In:  $-0.154 \pm 0.082$   $\chi^2/\text{NDF}: 2218.3/17$

Left:  $-0.038 \pm 0.058$   $\chi^2/\text{NDF}: 4207.5/36$

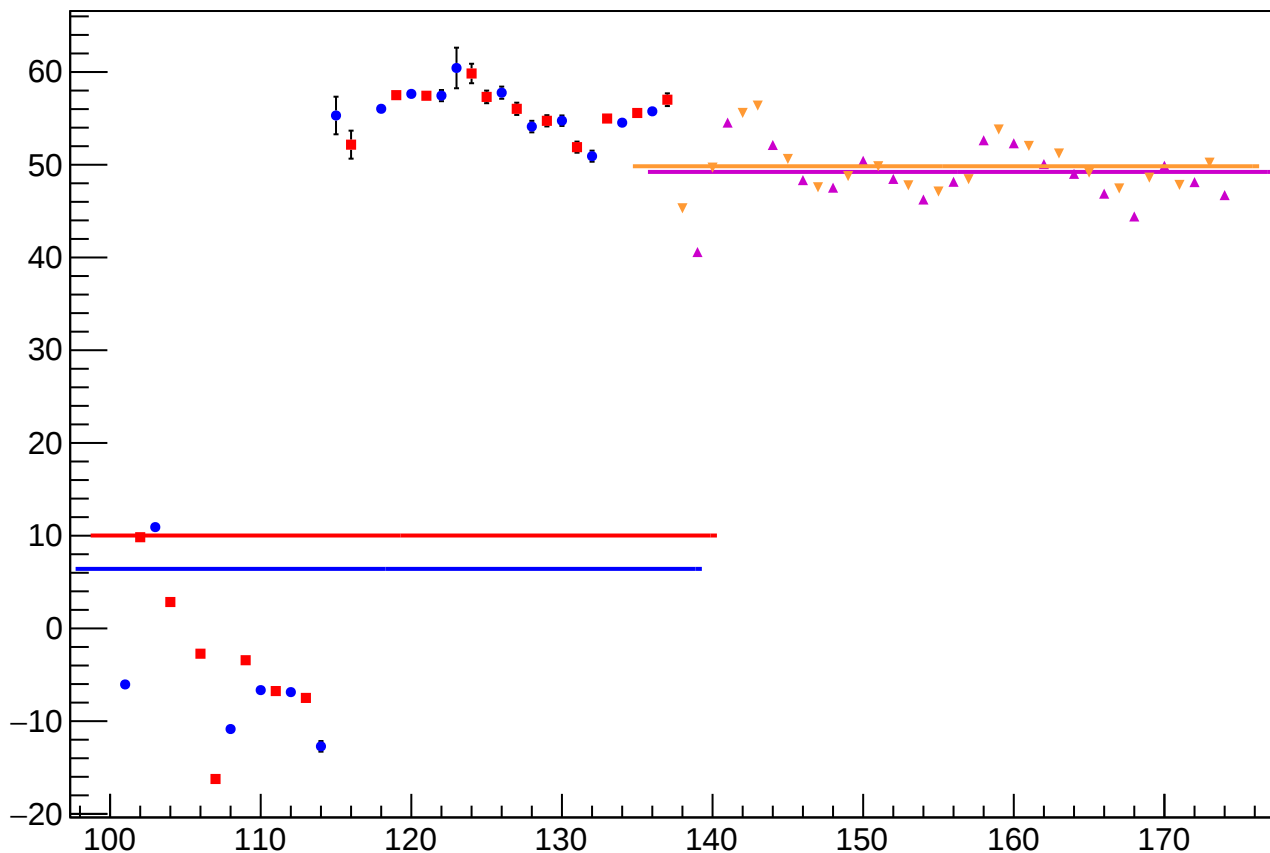
Right:  $5.792 \pm 0.066$   $\chi^2/\text{NDF}: 3959.6/34$

In:  $2.558 \pm 0.060$   $\chi^2/\text{NDF}: 6103.2/34$

Out:  $2.471 \pm 0.062$   $\chi^2/\text{NDF}: 6504.7/36$

All:  $2.516 \pm 0.043$   $\chi^2/\text{NDF}: 12609.0/71$

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 6.421+/-0.065  $\chi^2/\text{NDF}$ : 123109.7/16

Left Out: 49.837+/-0.069  $\chi^2/\text{NDF}$ :1388.1/18

Right Out: 10.019+/-0.071  $\chi^2/\text{NDF}$ : 122082.4/17

Left In: 49.227+/-0.070  $\chi^2/\text{NDF}$ :1506.6/17

Left: 49.538+/-0.049  $\chi^2/\text{NDF}$ : 2933.1/36

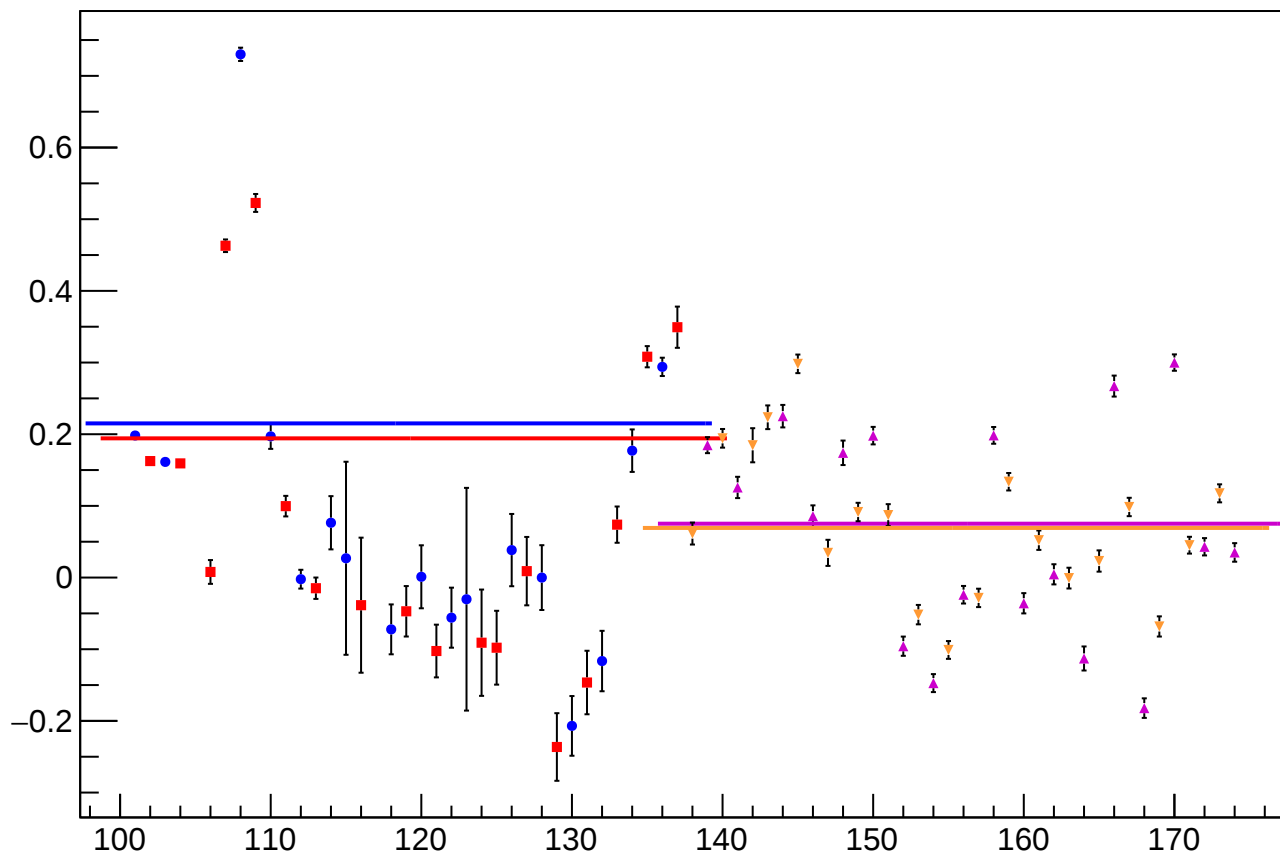
Right: 8.061+/-0.048  $\chi^2/\text{NDF}$ : 246600.2/34

In: 26.046+/-0.048  $\chi^2/\text{NDF}$ :325094.8/34

Out: 30.433+/-0.049  $\chi^2/\text{NDF}$ :285986.5/36

All: 28.161+/-0.034  $\chi^2/\text{NDF}$ : 615170.8/71

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: 0.069 $\pm$ 0.003  $\chi^2$ /NDF:1030.8/18

Right Out: 0.194 $\pm$ 0.003  $\chi^2$ /NDF: 2520.1/17

Left In: 0.075 $\pm$ 0.003  $\chi^2$ /NDF:2131.2/17

Left: 0.072 $\pm$ 0.002  $\chi^2$ /NDF: 3163.7/36

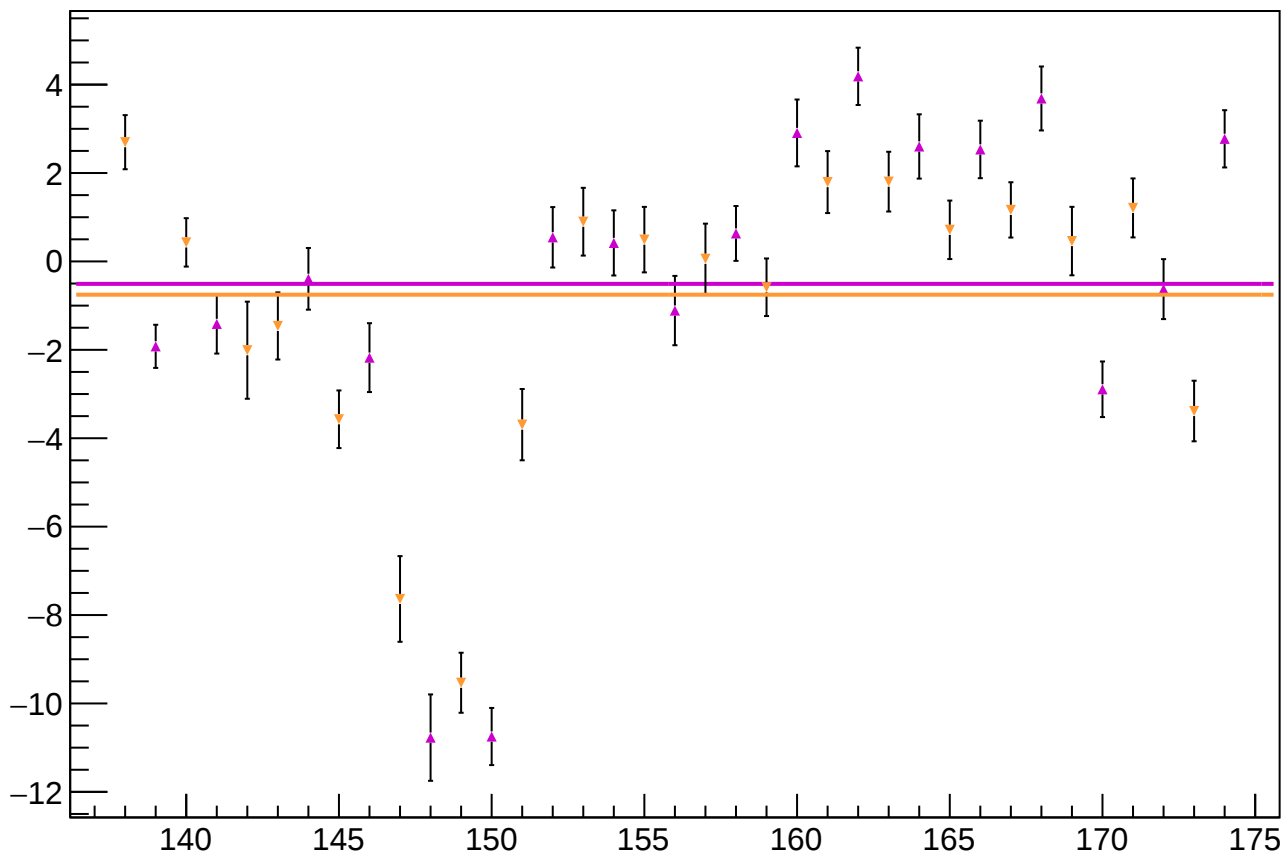
Right: 0.205 $\pm$ 0.002  $\chi^2$ /NDF: 6475.9/34

In: 0.154 $\pm$ 0.002  $\chi^2$ /NDF:7174.2/34

Out: 0.141 $\pm$ 0.002  $\chi^2$ /NDF:4436.1/36

All: 0.147 $\pm$ 0.001  $\chi^2$ /NDF: 11630.8/71

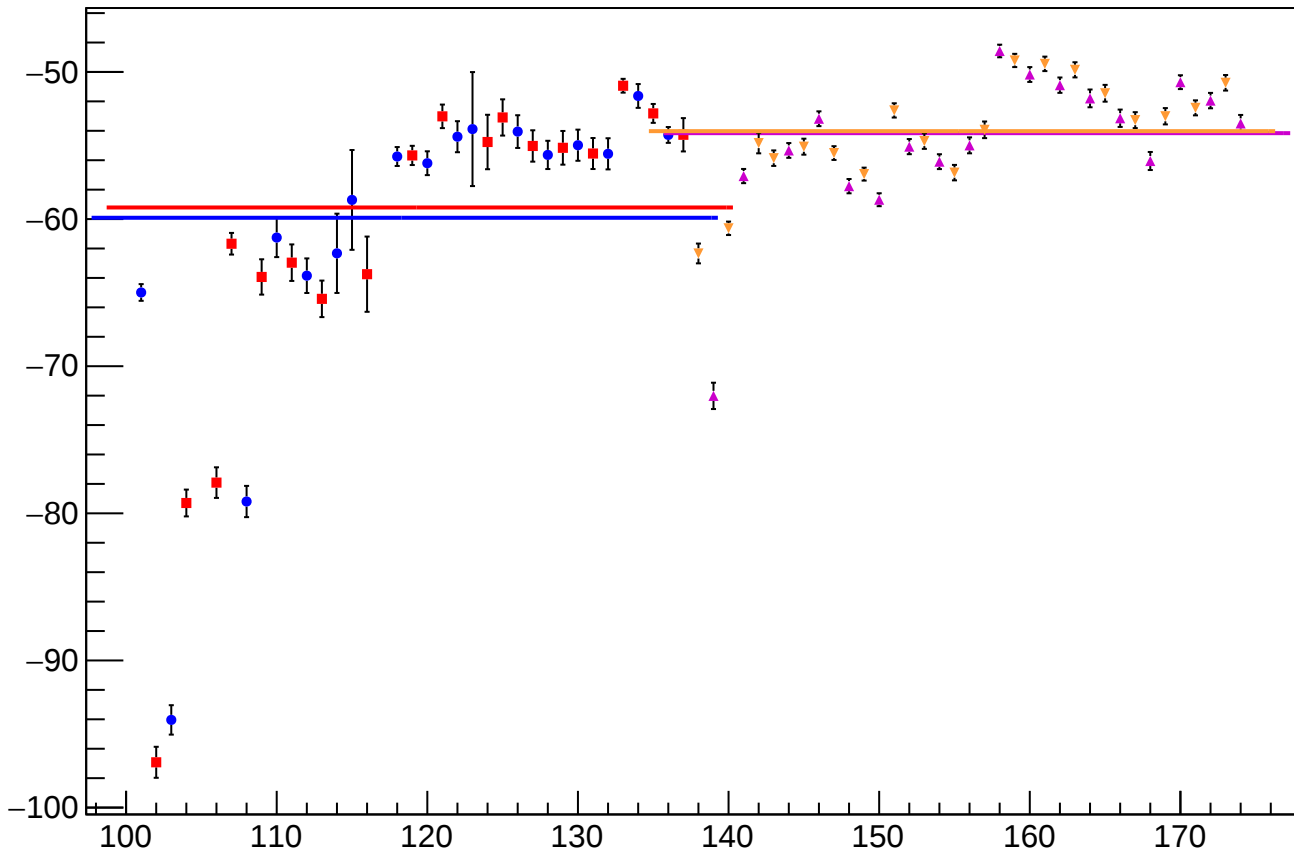
reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.753 $\pm$ 0.162  $\chi^2$ /NDF:364.4/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.508 $\pm$ 0.160  $\chi^2$ /NDF:570.7/17

Left: -0.629 $\pm$ 0.114  $\chi^2$ /NDF: 936.3/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.508 $\pm$ 0.160  $\chi^2$ /NDF:570.7/17  
 Out: -0.753 $\pm$ 0.162  $\chi^2$ /NDF:364.4/18  
 All: -0.629 $\pm$ 0.114  $\chi^2$ /NDF: 936.3/36

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-59.911 \pm 0.223$   $\chi^2/\text{NDF}$ : 1980.8/16

Left Out:  $-54.024 \pm 0.119$   $\chi^2/\text{NDF}$ : 811.1/18

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

Left In:  $-54.160 \pm 0.123$   $\chi^2/\text{NDF}$ : 996.7/17

Left:  $-54.090 \pm 0.086$   $\chi^2/\text{NDF}$ : 1808.5/36

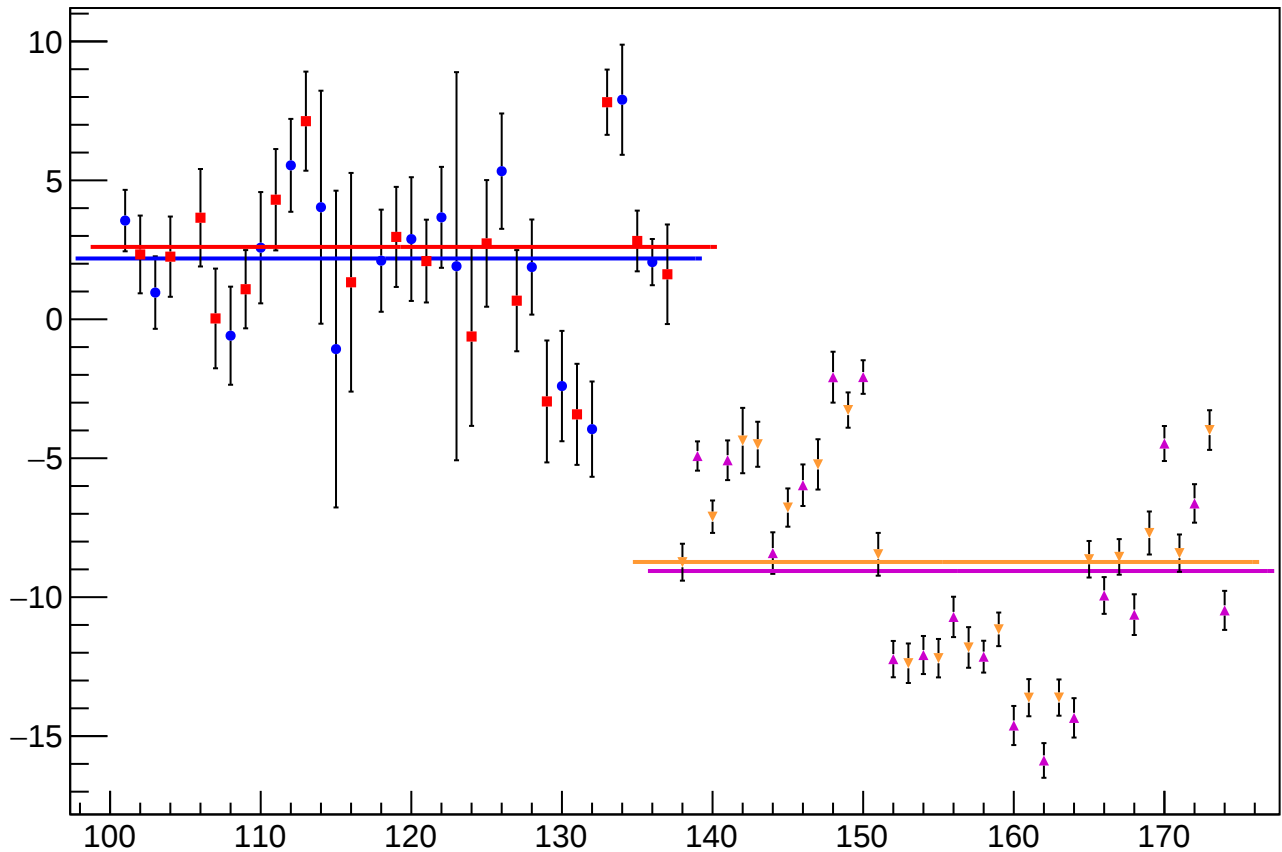
Right:  $-59.544 \pm 0.154$   $\chi^2/\text{NDF}$ : 4728.9/34

In:  $-55.495 \pm 0.108$   $\chi^2/\text{NDF}$ : 3487.3/34

Out:  $-55.268 \pm 0.104$   $\chi^2/\text{NDF}$ : 4007.8/36

All:  $-55.378 \pm 0.075$   $\chi^2/\text{NDF}$ : 7497.4/71

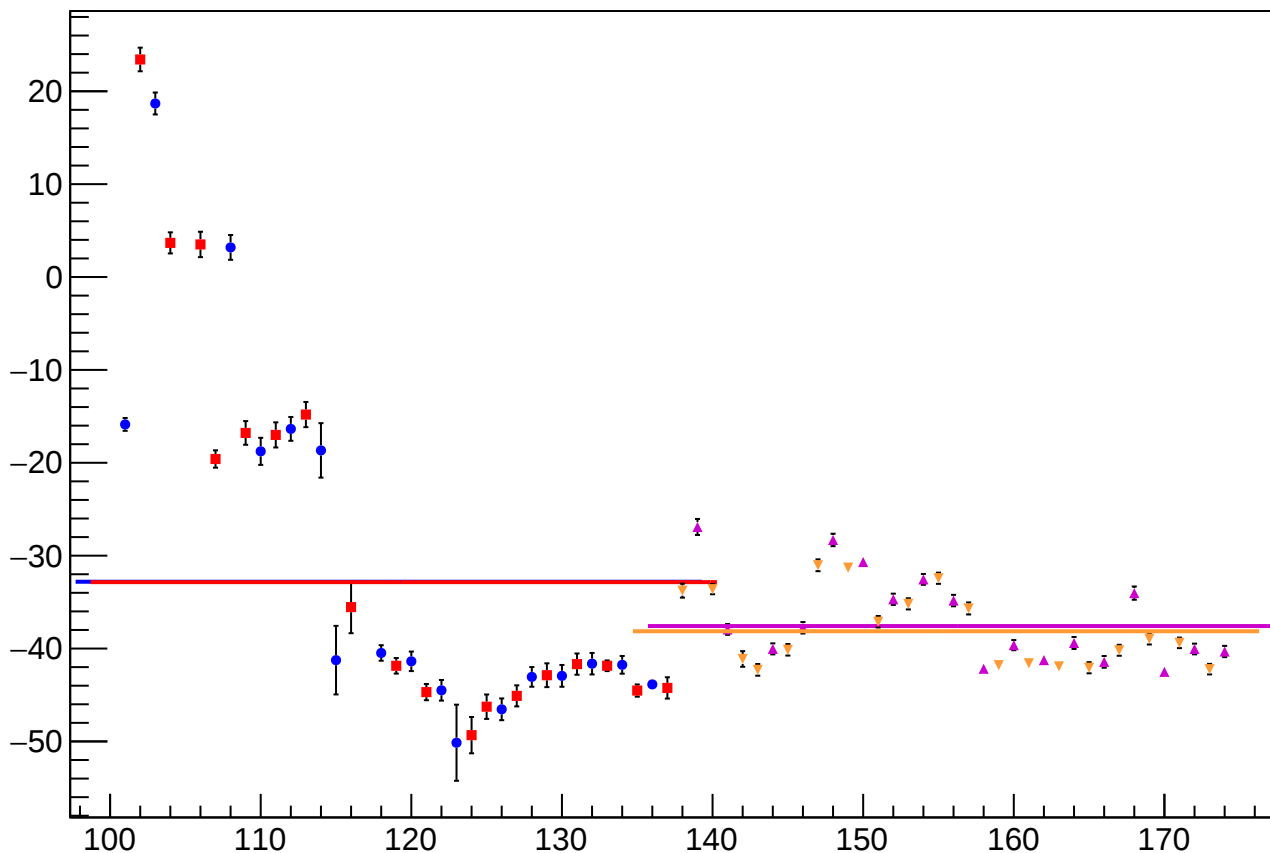
reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $2.189 \pm 0.405$   $\chi^2/\text{NDF}: 39.1/16$   
 Left Out:  $-8.734 \pm 0.161$   $\chi^2/\text{NDF}: 387.2/18$   
 Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}: 50.8/17$   
 Left In:  $-9.059 \pm 0.158$   $\chi^2/\text{NDF}: 692.2/17$

Left:  $-8.898 \pm 0.113$   $\chi^2/\text{NDF}: 1081.4/36$   
 Right:  $2.404 \pm 0.281$   $\chi^2/\text{NDF}: 90.4/34$   
 In:  $-7.563 \pm 0.148$   $\chi^2/\text{NDF}: 1401.5/34$   
 Out:  $-7.097 \pm 0.148$   $\chi^2/\text{NDF}: 1158.0/36$   
 All:  $-7.332 \pm 0.105$   $\chi^2/\text{NDF}: 2564.4/71$

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.806 \pm 0.254$   $\chi^2/\text{NDF}: 4662.8/16$

Left Out:  $-38.137 \pm 0.136$   $\chi^2/\text{NDF}: 854.9/18$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

Left In:  $-37.578 \pm 0.138$   $\chi^2/\text{NDF}: 1027.4/17$

Left:  $-37.863 \pm 0.097$   $\chi^2/\text{NDF}: 1890.7/36$

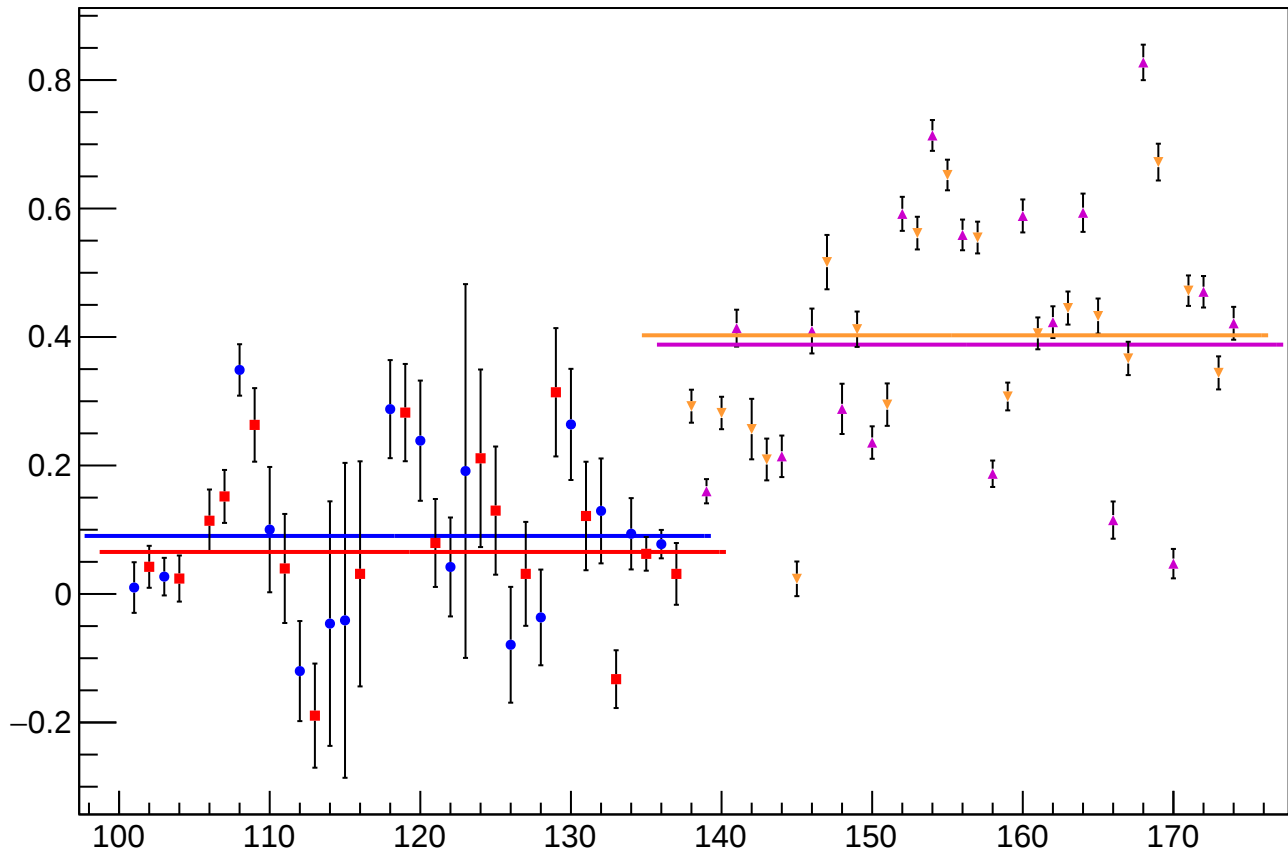
Right:  $-32.829 \pm 0.176$   $\chi^2/\text{NDF}: 10413.1/34$

In:  $-36.488 \pm 0.122$   $\chi^2/\text{NDF}: 5962.0/34$

Out:  $-36.888 \pm 0.119$   $\chi^2/\text{NDF}: 6962.8/36$

All:  $-36.693 \pm 0.085$   $\chi^2/\text{NDF}: 12930.3/71$

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.090 \pm 0.013$   $\chi^2/\text{NDF}: 79.4/16$

Left Out:  $0.403 \pm 0.006$   $\chi^2/\text{NDF}: 616.3/18$

Right Out:  $0.065 \pm 0.012$   $\chi^2/\text{NDF}: 65.7/17$

Left In:  $0.388 \pm 0.006$   $\chi^2/\text{NDF}: 1295.8/17$

Left:  $0.395 \pm 0.004$   $\chi^2/\text{NDF}: 1914.9/36$

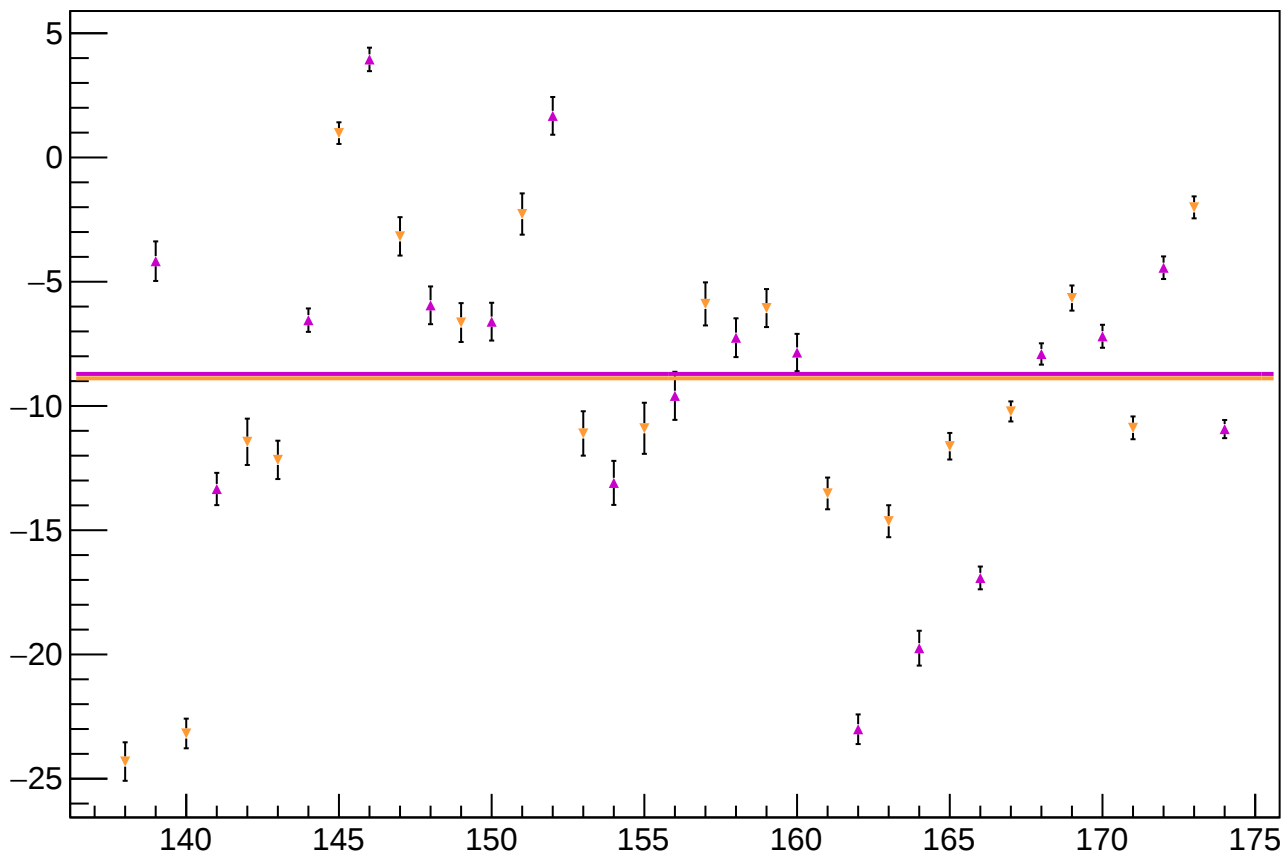
Right:  $0.077 \pm 0.009$   $\chi^2/\text{NDF}: 147.0/34$

In:  $0.333 \pm 0.005$   $\chi^2/\text{NDF}: 1821.3/34$

Out:  $0.334 \pm 0.006$   $\chi^2/\text{NDF}: 1286.8/36$

All:  $0.334 \pm 0.004$   $\chi^2/\text{NDF}: 3108.1/71$

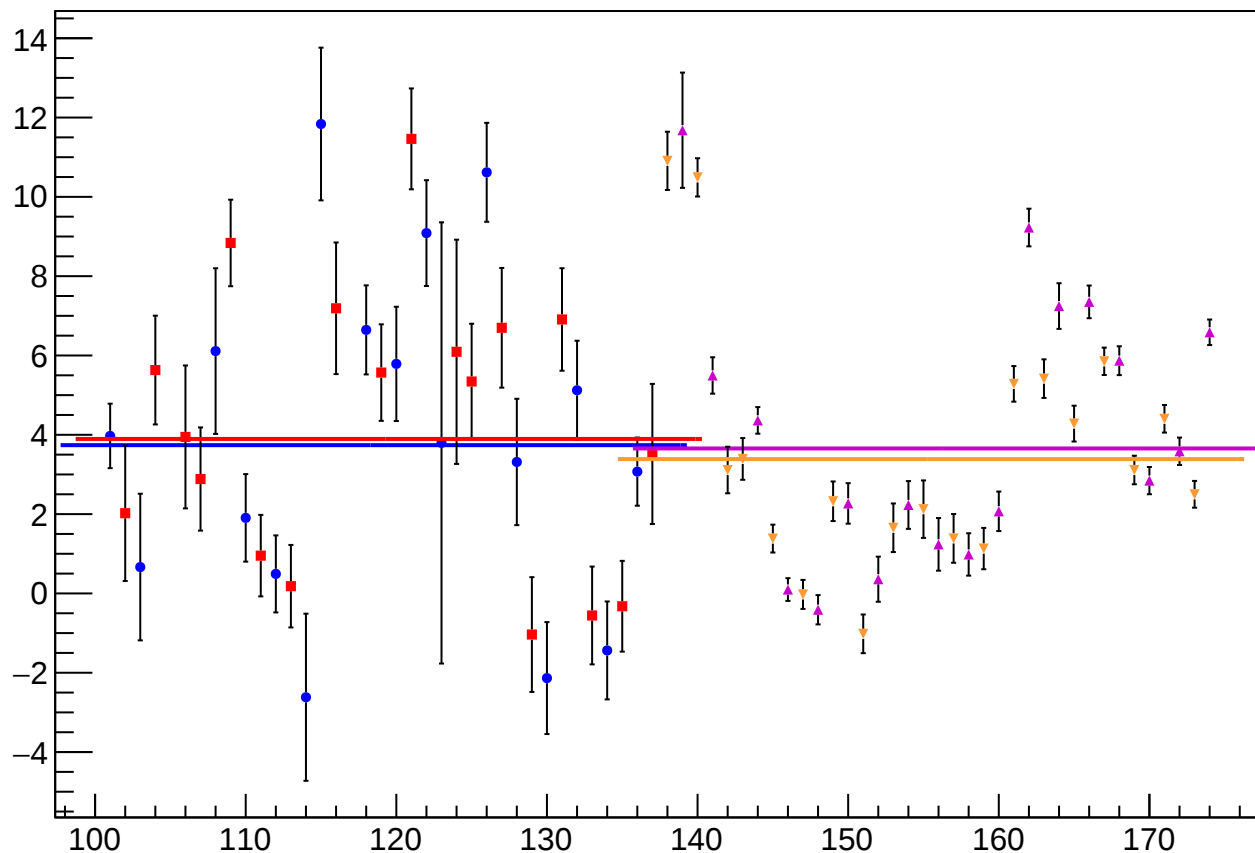
reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -8.887+/-0.140  $\chi^2/\text{NDF}$ :2141.1/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.710+/-0.134  $\chi^2/\text{NDF}$ :2342.9/17

Left: -8.795+/-0.097  $\chi^2/\text{NDF}$ : 4484.8/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.710+/-0.134  $\chi^2/\text{NDF}$ :2342.9/17  
 Out: -8.887+/-0.140  $\chi^2/\text{NDF}$ :2141.1/18  
 All: -8.795+/-0.097  $\chi^2/\text{NDF}$ : 4484.8/36

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:  $3.388 \pm 0.103$   $\chi^2/\text{NDF}$ : 674.0/18

Right Out:  $3.896 \pm 0.316$   $\chi^2/\text{NDF}$ : 134.9/17

Left In:  $3.656 \pm 0.100$   $\chi^2/\text{NDF}$ : 803.7/17

Left:  $3.526 \pm 0.072$   $\chi^2/\text{NDF}$ : 1481.2/36

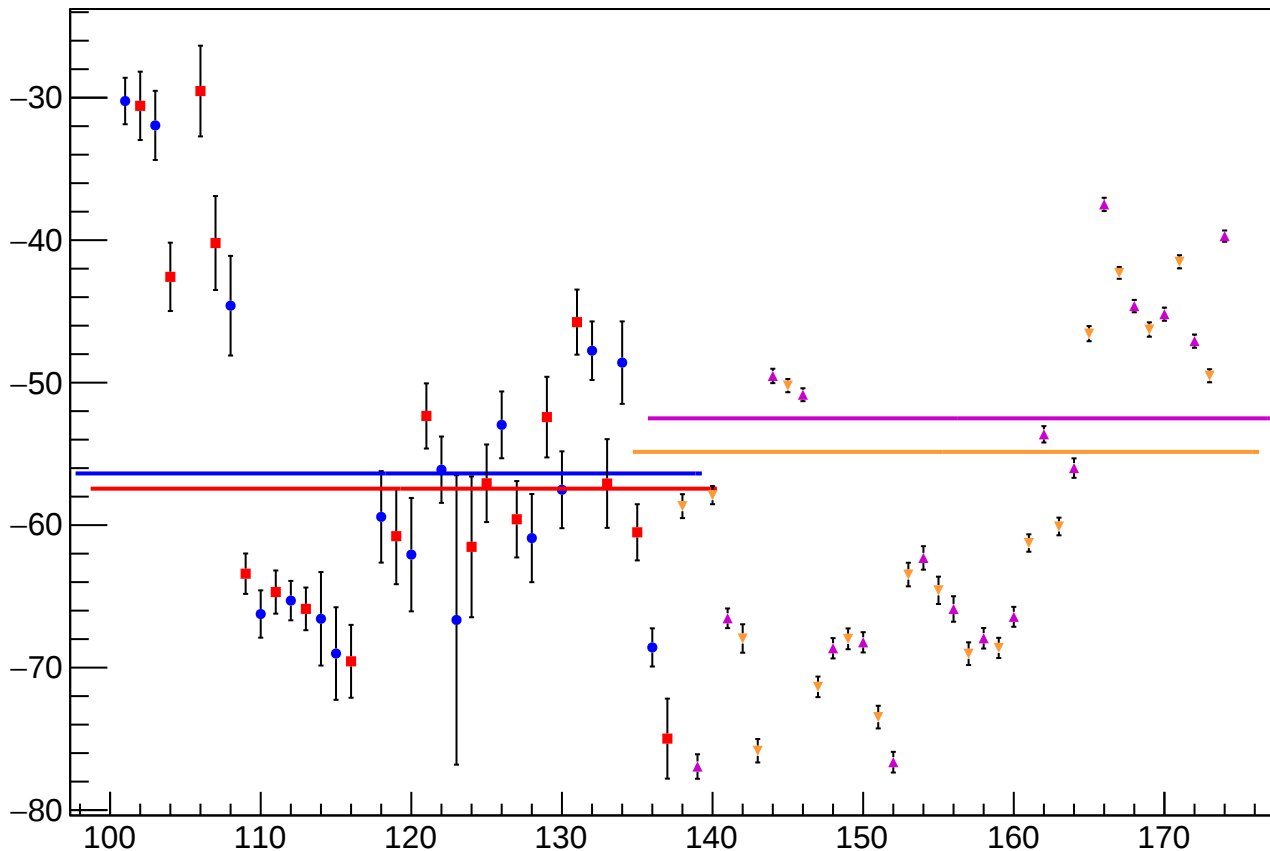
Right:  $3.815 \pm 0.221$   $\chi^2/\text{NDF}$ : 271.9/34

In:  $3.664 \pm 0.095$   $\chi^2/\text{NDF}$ : 940.6/34

Out:  $3.436 \pm 0.098$   $\chi^2/\text{NDF}$ : 811.2/36

All:  $3.553 \pm 0.068$   $\chi^2/\text{NDF}$ : 1754.6/71

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:  $-54.861 \pm 0.141$   $\chi^2/\text{NDF}$ : 5866.6/18

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}$ : 441.0/17

Left In:  $-52.506 \pm 0.134$   $\chi^2/\text{NDF}$ : 7418.9/17

Left:  $-53.628 \pm 0.097$   $\chi^2/\text{NDF}$ : 13432.1/36

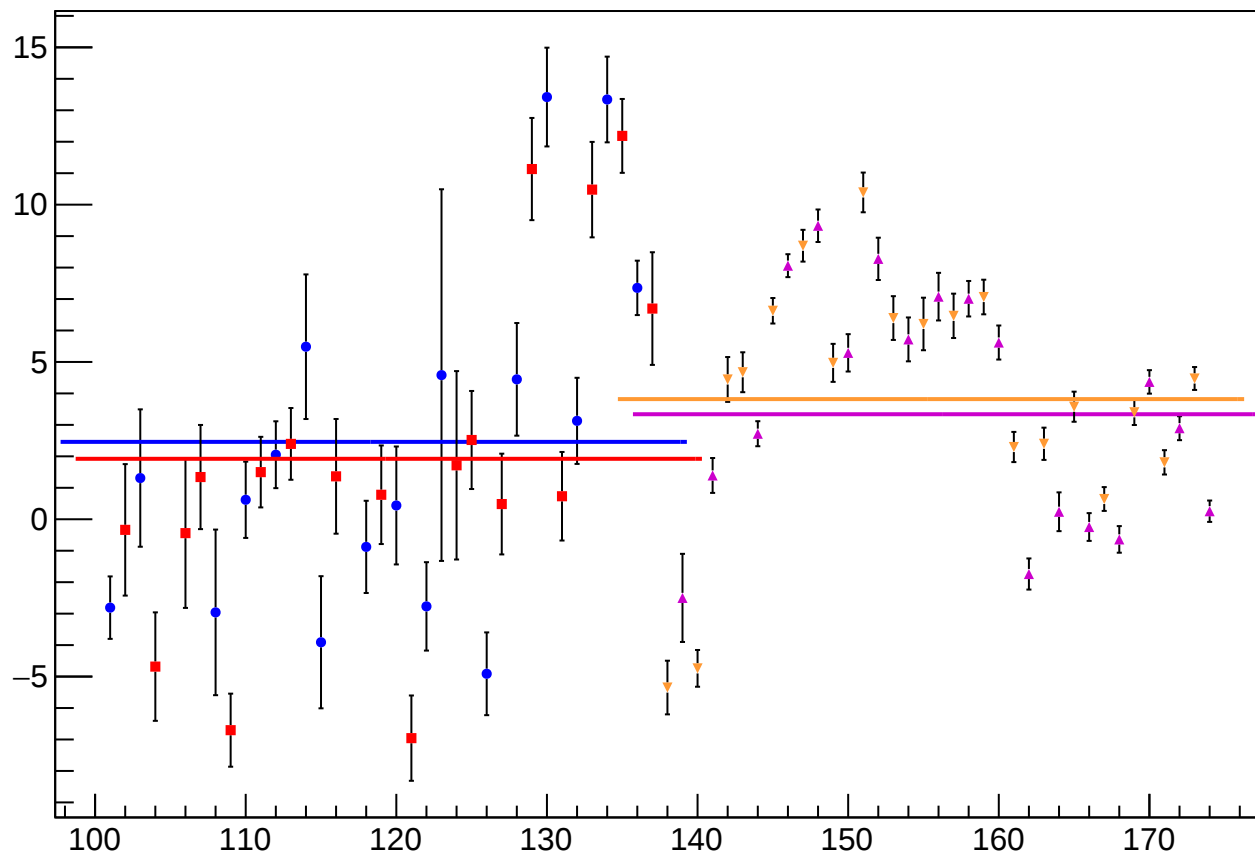
Right:  $-56.912 \pm 0.382$   $\chi^2/\text{NDF}$ : 1030.5/34

In:  $-52.728 \pm 0.130$   $\chi^2/\text{NDF}$ : 8054.3/34

Out:  $-55.027 \pm 0.136$   $\chi^2/\text{NDF}$ : 6329.2/36

All:  $-53.827 \pm 0.094$   $\chi^2/\text{NDF}$ : 14532.2/71

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $2.460 \pm 0.346$   $\chi^2/\text{NDF}$ : 243.9/16

Left Out:  $3.819 \pm 0.117$   $\chi^2/\text{NDF}$ : 776.4/18

Right Out:  $1.922 \pm 0.355$   $\chi^2/\text{NDF}$ : 265.1/17

Left In:  $3.338 \pm 0.114$   $\chi^2/\text{NDF}$ : 871.7/17

Left:  $3.572 \pm 0.082$   $\chi^2/\text{NDF}$ : 1656.8/36

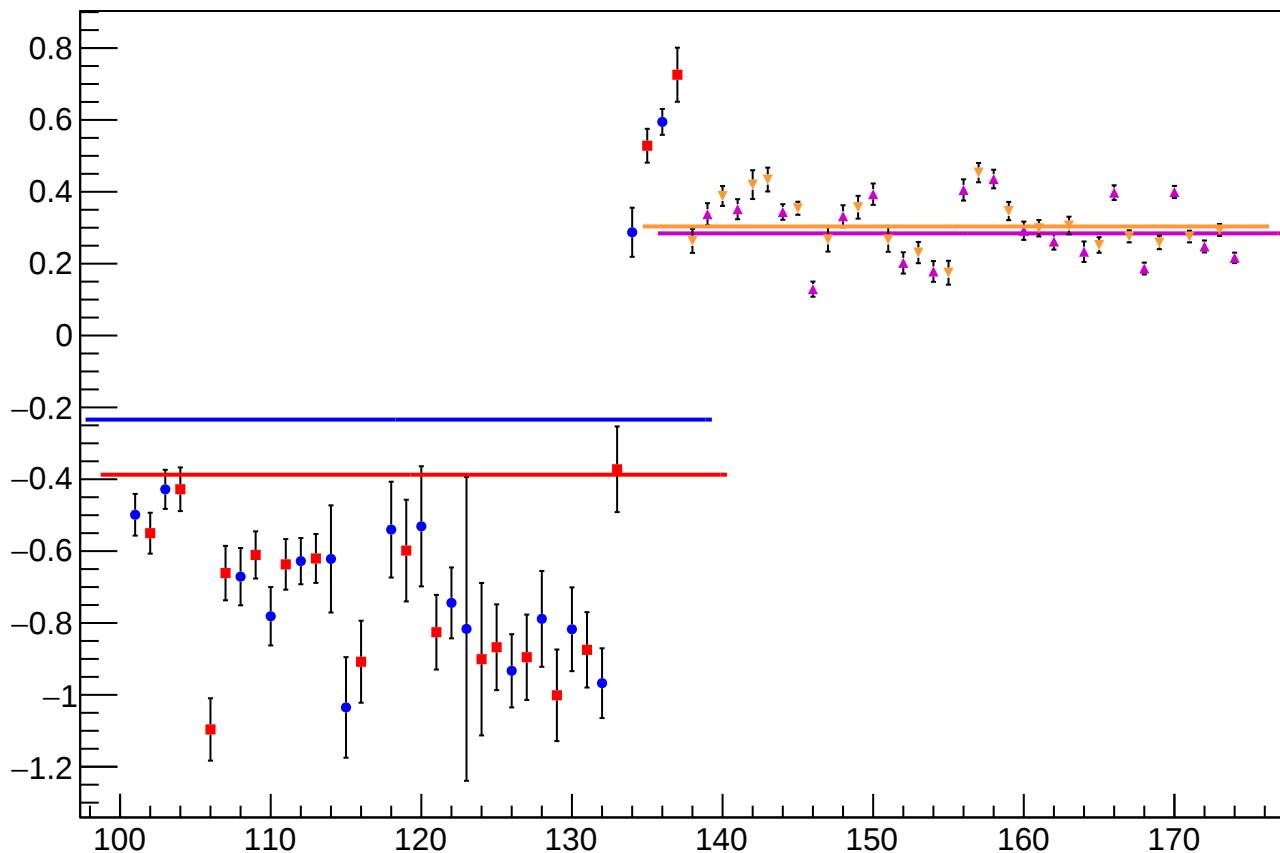
Right:  $2.198 \pm 0.248$   $\chi^2/\text{NDF}$ : 510.2/34

In:  $3.252 \pm 0.108$   $\chi^2/\text{NDF}$ : 1121.5/34

Out:  $3.633 \pm 0.111$   $\chi^2/\text{NDF}$ : 1067.3/36

All:  $3.437 \pm 0.078$   $\chi^2/\text{NDF}$ : 2194.8/71

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.234 $\pm$ 0.019  $\chi^2$ /NDF: 958.3/16

Left Out: 0.304 $\pm$ 0.005  $\chi^2$ /NDF:119.9/18

Right Out: -0.387 $\pm$ 0.019  $\chi^2$ /NDF: 846.6/17

Left In: 0.284 $\pm$ 0.005  $\chi^2$ /NDF:301.4/17

Left: 0.294 $\pm$ 0.004  $\chi^2$ /NDF: 427.9/36

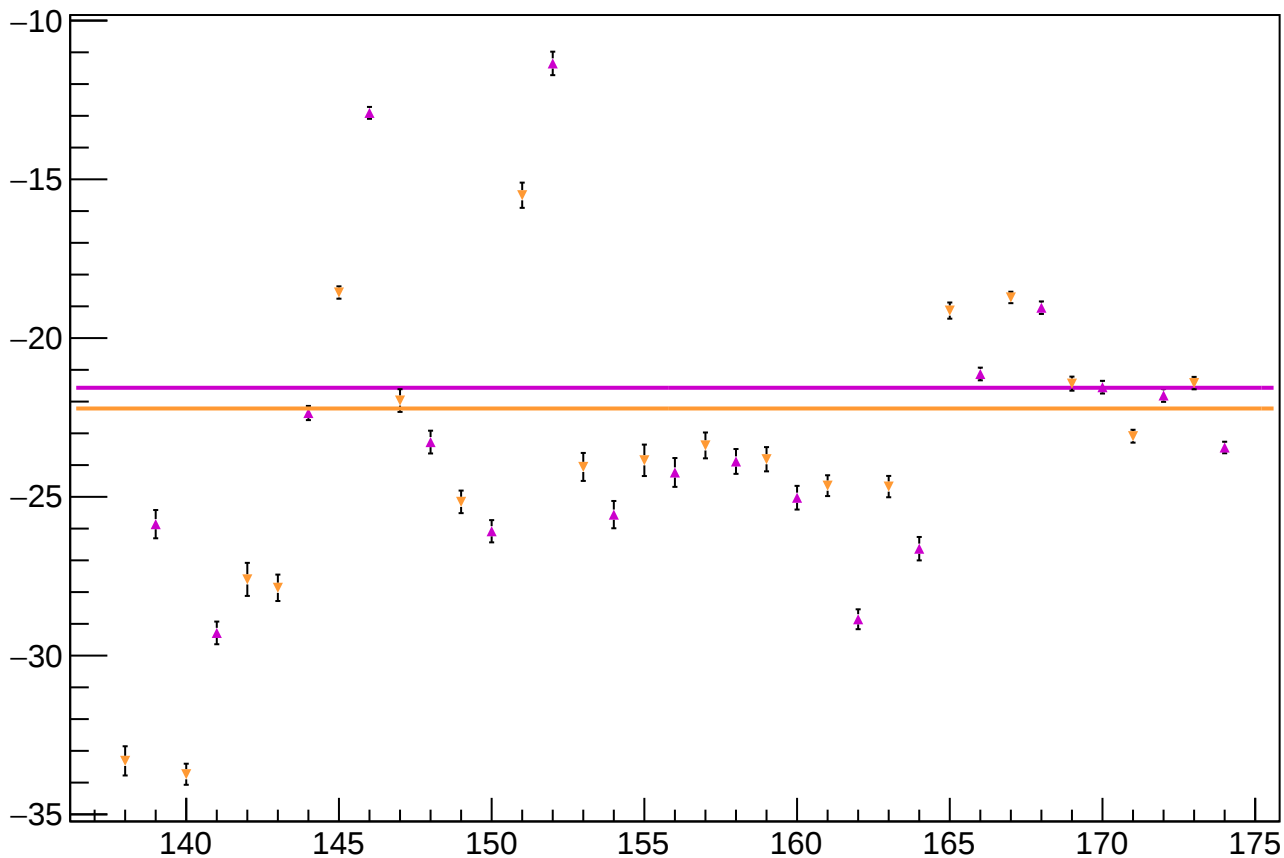
Right: -0.310 $\pm$ 0.013  $\chi^2$ /NDF: 1837.6/34

In: 0.247 $\pm$ 0.005  $\chi^2$ /NDF:1958.6/34

Out: 0.251 $\pm$ 0.005  $\chi^2$ /NDF:2188.3/36

All: 0.249 $\pm$ 0.004  $\chi^2$ /NDF: 4147.2/71

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: -22.217+/-0.066  $\chi^2/\text{NDF}$ :3515.3/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -21.565+/-0.062  $\chi^2/\text{NDF}$ :4909.2/17

Left: -21.872+/-0.045  $\chi^2/\text{NDF}$ : 8475.9/36

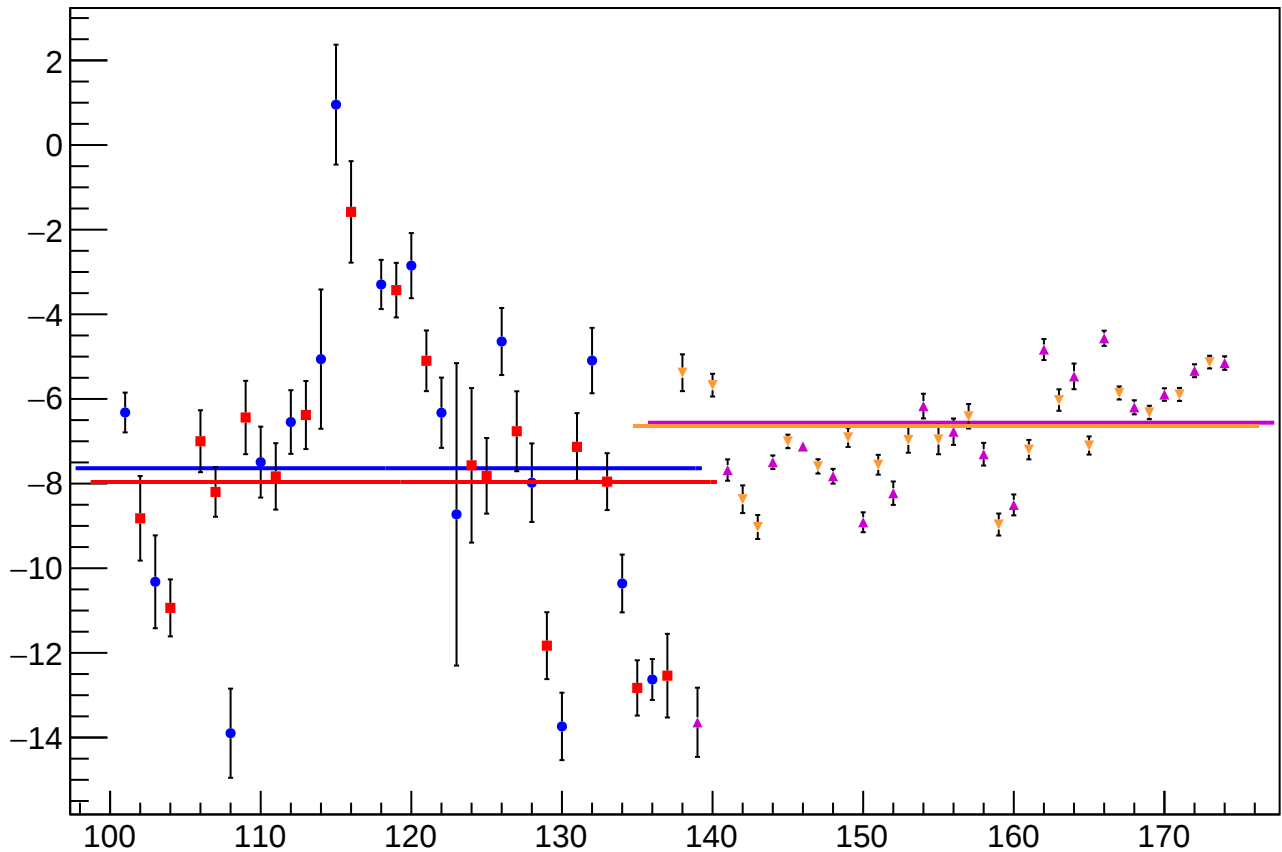
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -21.565+/-0.062  $\chi^2/\text{NDF}$ :4909.2/17

Out: -22.217+/-0.066  $\chi^2/\text{NDF}$ :3515.3/18

All: -21.872+/-0.045  $\chi^2/\text{NDF}$ : 8475.9/36

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.637 \pm 0.186$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-6.640 \pm 0.049$   $\chi^2/\text{NDF}$ : 427.2/18

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

Left In:  $-6.561 \pm 0.046$   $\chi^2/\text{NDF}$ : 762.7/17

Left:  $-6.598 \pm 0.034$   $\chi^2/\text{NDF}$ : 1191.3/36

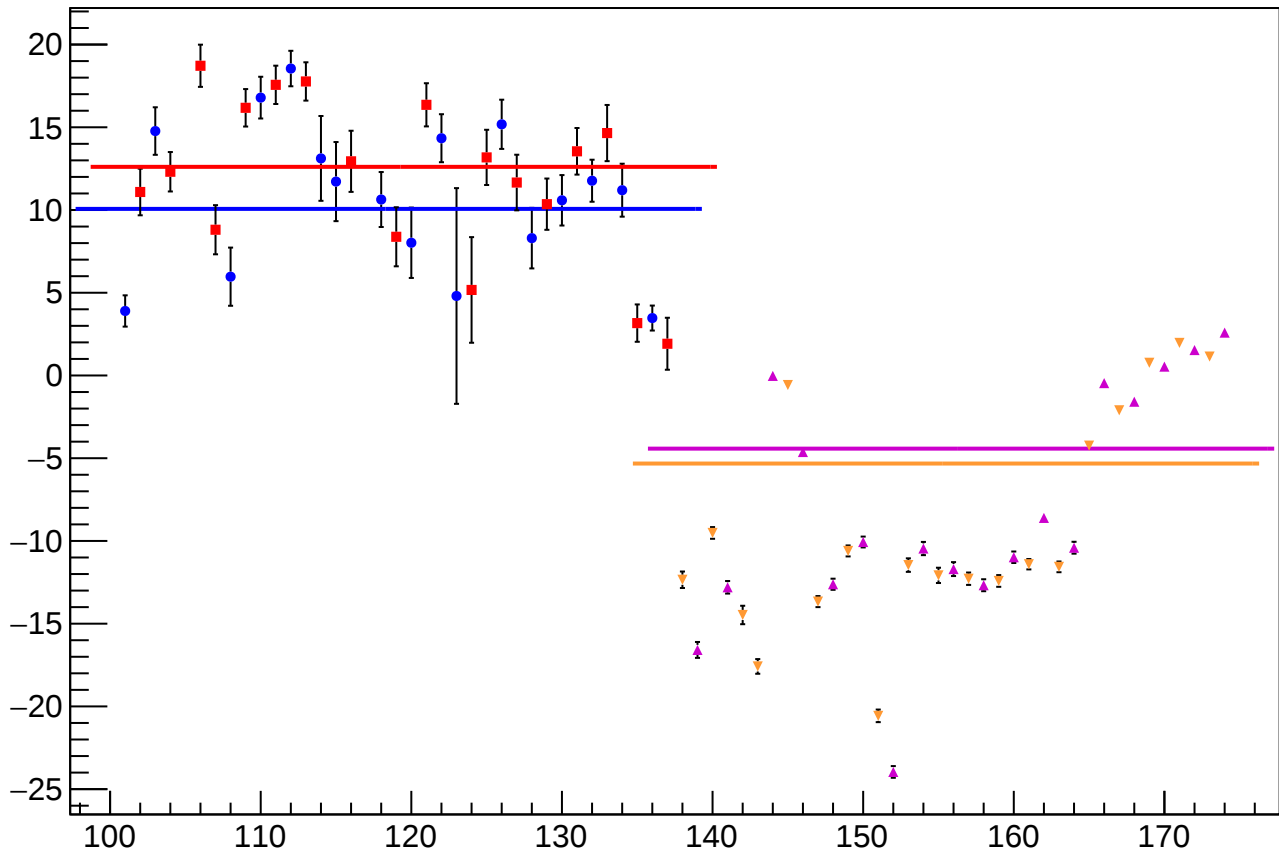
Right:  $-7.800 \pm 0.131$   $\chi^2/\text{NDF}$ : 622.1/34

In:  $-6.623 \pm 0.045$   $\chi^2/\text{NDF}$ : 1188.2/34

Out:  $-6.724 \pm 0.047$   $\chi^2/\text{NDF}$ : 701.2/36

All:  $-6.672 \pm 0.032$   $\chi^2/\text{NDF}$ : 1891.8/71

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:  $-5.322 \pm 0.066$   $\chi^2/\text{NDF}: 9674.7/18$

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}: 219.0/17$

Left In:  $-4.421 \pm 0.063$   $\chi^2/\text{NDF}: 10574.9/17$

Left:  $-4.846 \pm 0.045$   $\chi^2/\text{NDF}: 20347.3/36$

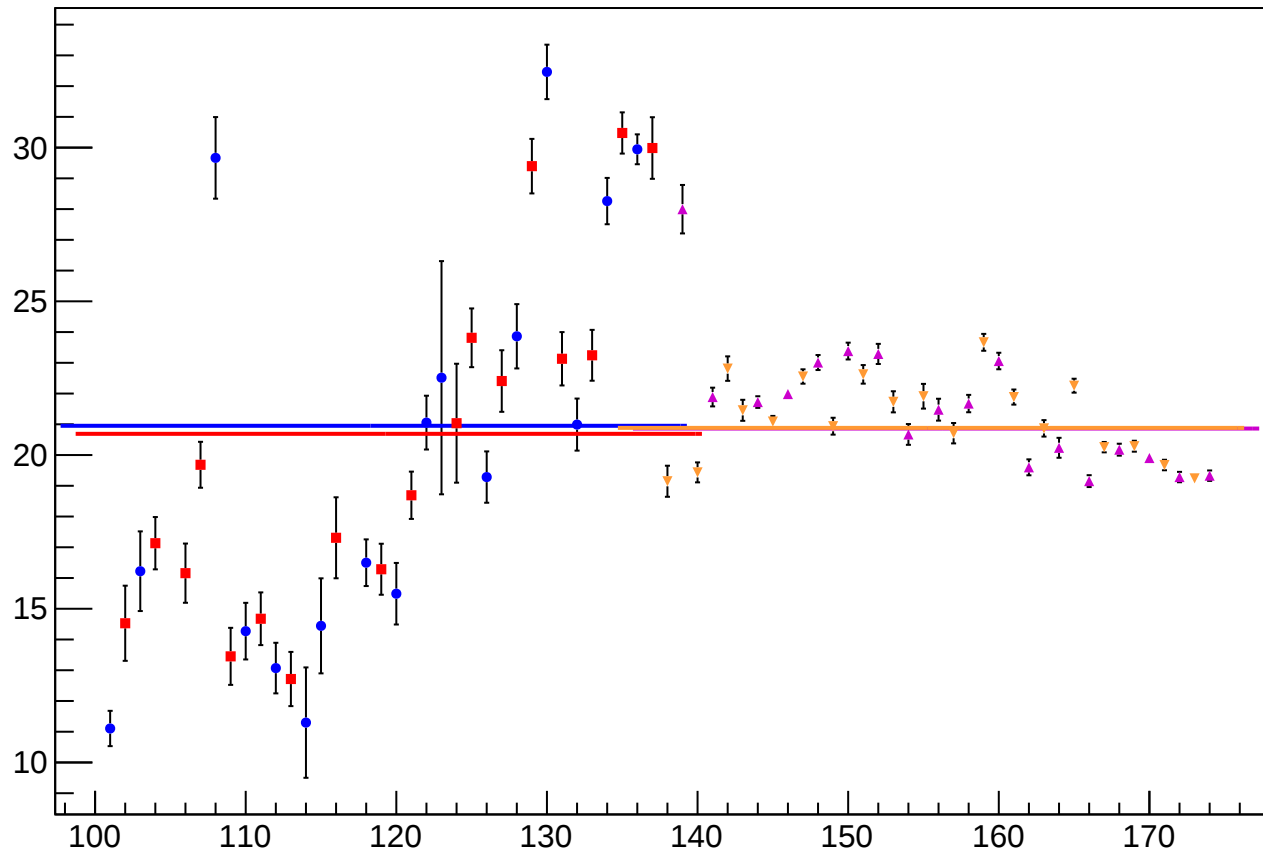
Right:  $11.355 \pm 0.237$   $\chi^2/\text{NDF}: 501.3/34$

In:  $-3.940 \pm 0.061$   $\chi^2/\text{NDF}: 12611.2/34$

Out:  $-4.639 \pm 0.065$   $\chi^2/\text{NDF}: 12681.1/36$

All:  $-4.270 \pm 0.045$   $\chi^2/\text{NDF}: 25353.4/71$

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 20.951 $\pm$ 0.210  $\chi^2$ /NDF: 1222.8/16

Left Out: 20.883 $\pm$ 0.055  $\chi^2$ /NDF: 490.8/18

Right Out: 20.690 $\pm$ 0.213  $\chi^2$ /NDF: 726.9/17

Left In: 20.862 $\pm$ 0.053  $\chi^2$ /NDF: 791.2/17

Left: 20.872 $\pm$ 0.038  $\chi^2$ /NDF: 1282.0/36

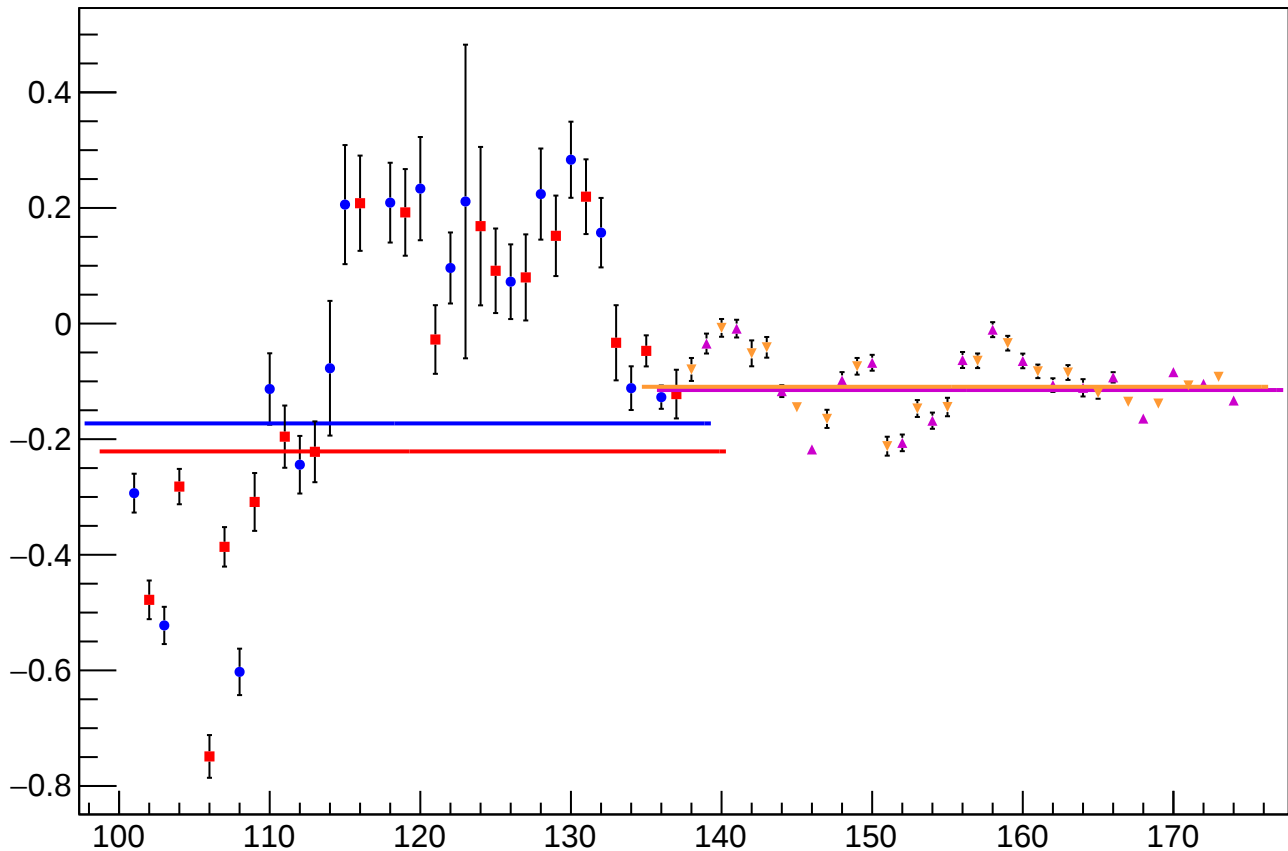
Right: 20.822 $\pm$ 0.149  $\chi^2$ /NDF: 1950.5/34

In: 20.867 $\pm$ 0.051  $\chi^2$ /NDF: 2014.1/34

Out: 20.871 $\pm$ 0.054  $\chi^2$ /NDF: 1218.5/36

All: 20.869 $\pm$ 0.037  $\chi^2$ /NDF: 3232.6/71

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:  $-0.109 \pm 0.003$   $\chi^2/\text{NDF}: 243.7/18$

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}: 535.1/17$

Left In:  $-0.115 \pm 0.002$   $\chi^2/\text{NDF}: 455.9/17$

Left:  $-0.112 \pm 0.002$   $\chi^2/\text{NDF}: 702.1/36$

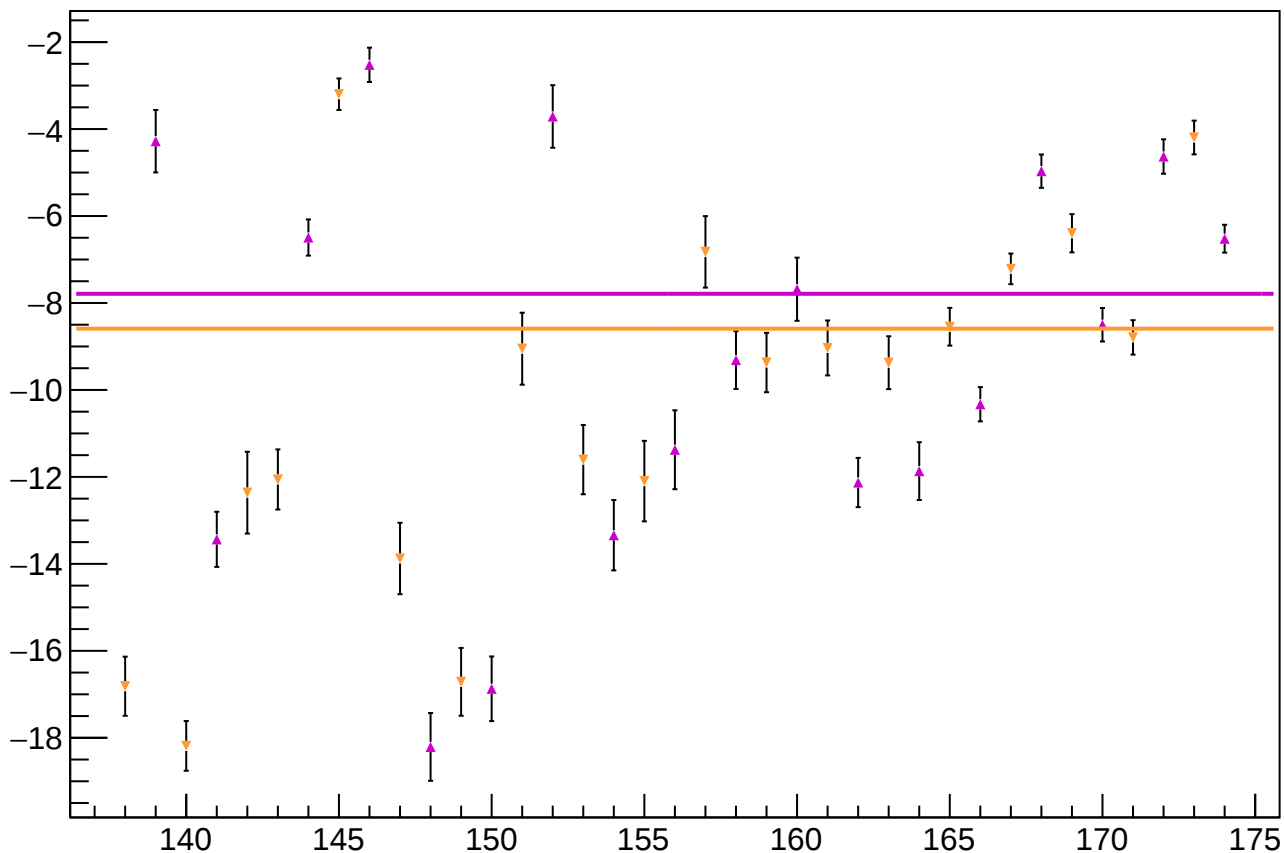
Right:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}: 1005.0/34$

In:  $-0.118 \pm 0.002$   $\chi^2/\text{NDF}: 941.6/34$

Out:  $-0.115 \pm 0.002$   $\chi^2/\text{NDF}: 877.5/36$

All:  $-0.116 \pm 0.002$   $\chi^2/\text{NDF}: 1819.6/71$

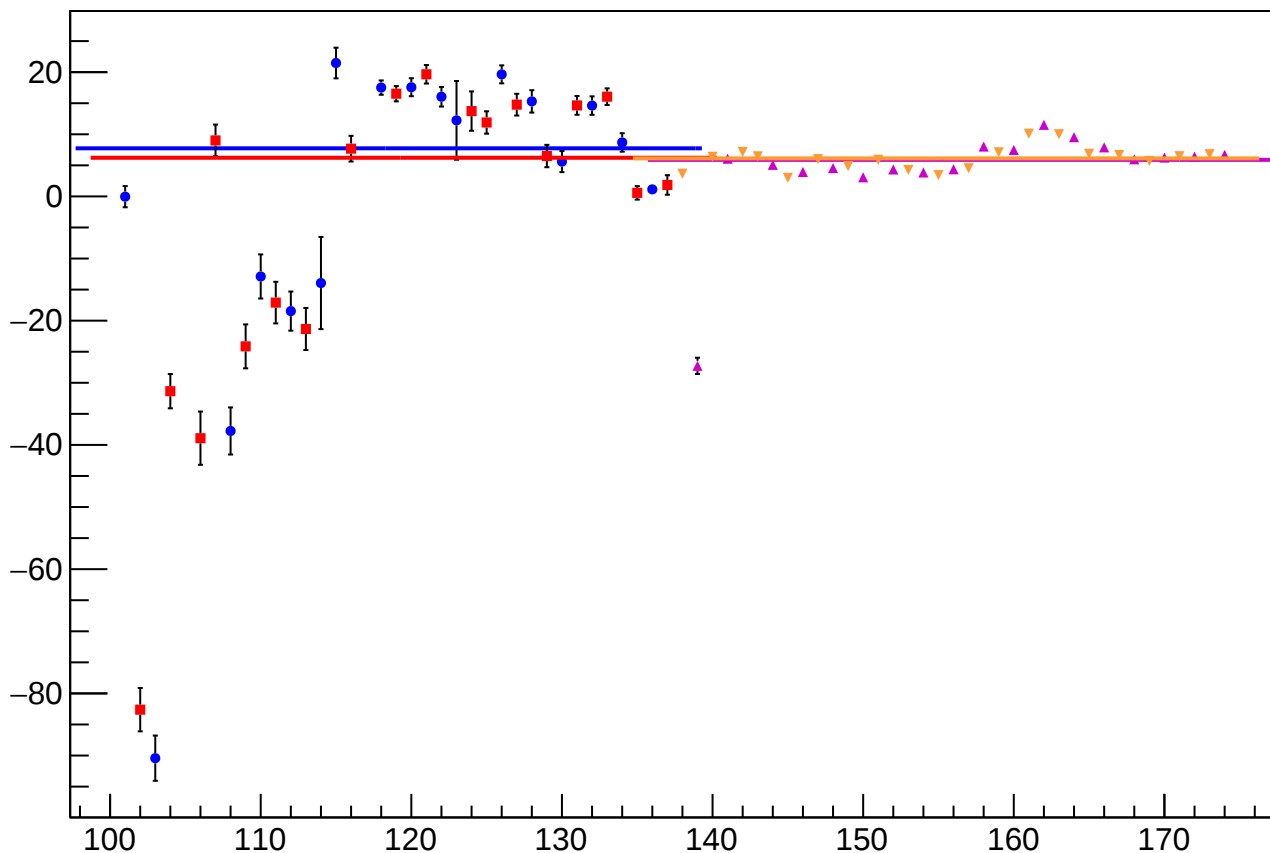
reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-8.591 \pm 0.125$   $\chi^2/\text{NDF}$ : 1045.8/18  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-7.789 \pm 0.119$   $\chi^2/\text{NDF}$ : 994.2/17

Left:  $-8.170 \pm 0.086$   $\chi^2/\text{NDF}$ : 2061.6/36  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $-7.789 \pm 0.119$   $\chi^2/\text{NDF}$ : 994.2/17  
 Out:  $-8.591 \pm 0.125$   $\chi^2/\text{NDF}$ : 1045.8/18  
 All:  $-8.170 \pm 0.086$   $\chi^2/\text{NDF}$ : 2061.6/36

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.742 \pm 0.403$   $\chi^2/\text{NDF}: 1358.9/16$

Left Out:  $6.121 \pm 0.093$   $\chi^2/\text{NDF}: 350.8/18$

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}: 1445.9/17$

Left In:  $5.883 \pm 0.090$   $\chi^2/\text{NDF}: 1061.1/17$

Left:  $5.998 \pm 0.065$   $\chi^2/\text{NDF}: 1415.4/36$

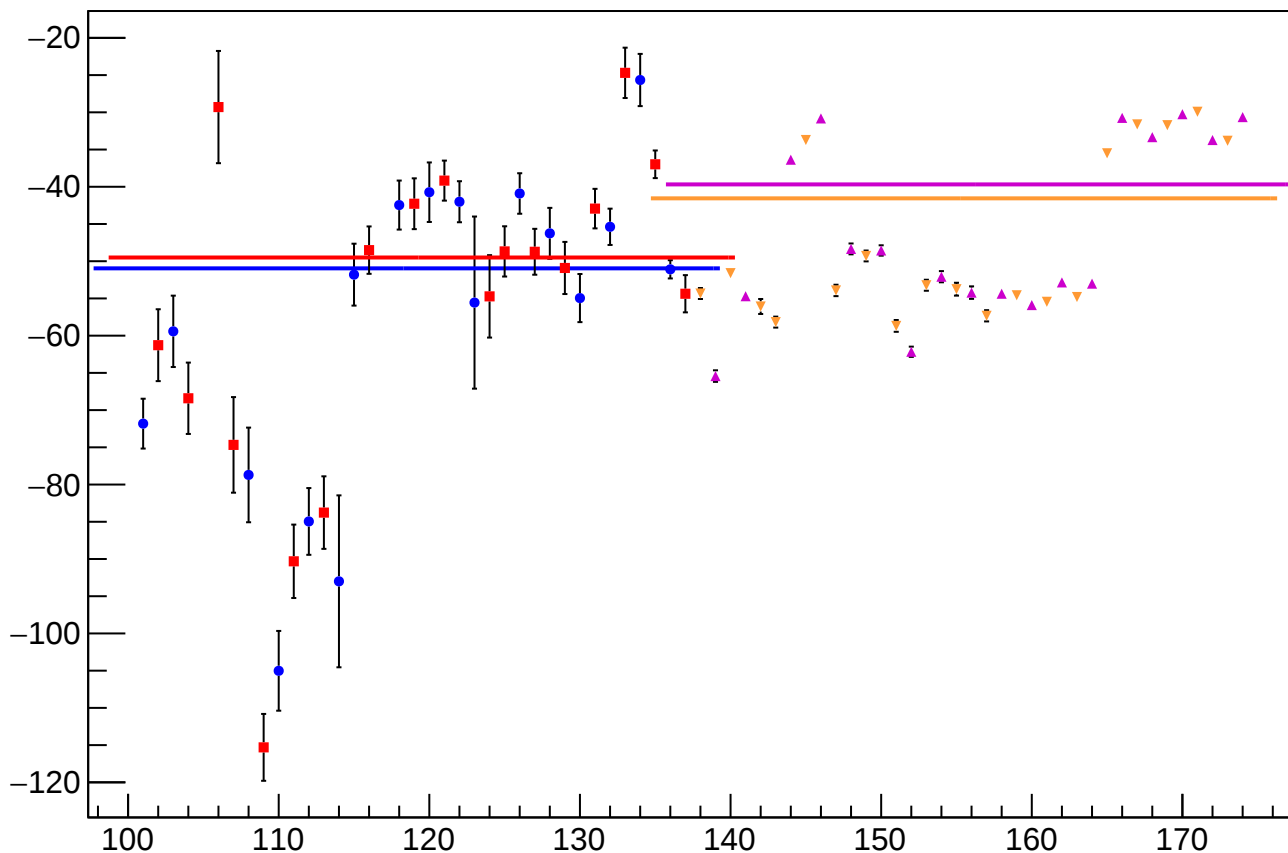
Right:  $7.037 \pm 0.295$   $\chi^2/\text{NDF}: 2811.4/34$

In:  $5.971 \pm 0.088$   $\chi^2/\text{NDF}: 2440.3/34$

Out:  $6.125 \pm 0.091$   $\chi^2/\text{NDF}: 1796.8/36$

All:  $6.045 \pm 0.063$   $\chi^2/\text{NDF}: 4238.6/71$

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:  $-41.556 \pm 0.126$   $\chi^2/\text{NDF}$ : 7559.5/18

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

Left In:  $-39.683 \pm 0.120$   $\chi^2/\text{NDF}$ : 8555.0/17

Left:  $-40.572 \pm 0.087$   $\chi^2/\text{NDF}$ : 16230.5/36

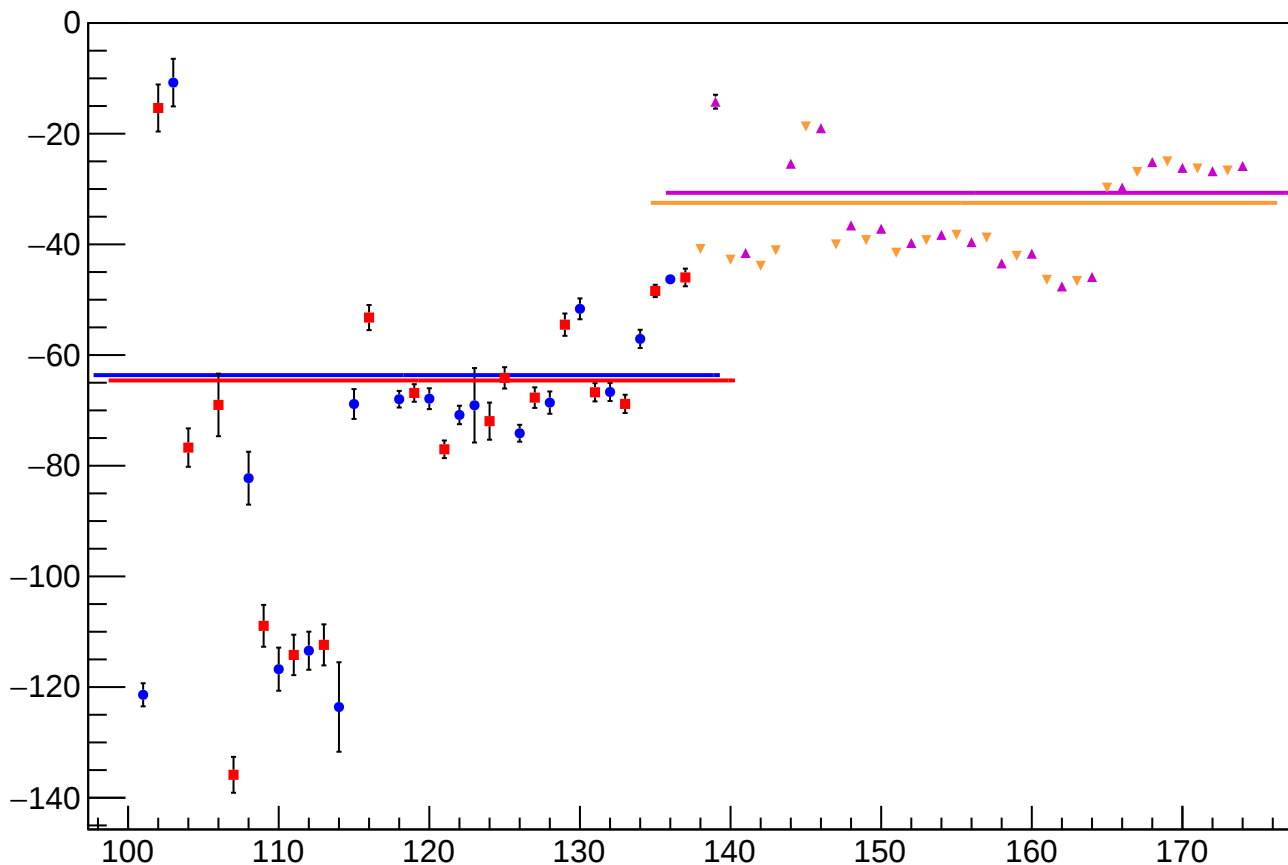
Right:  $-50.287 \pm 0.542$   $\chi^2/\text{NDF}$ : 840.1/34

In:  $-39.972 \pm 0.118$   $\chi^2/\text{NDF}$ : 9114.1/34

Out:  $-41.749 \pm 0.125$   $\chi^2/\text{NDF}$ : 8162.7/36

All:  $-40.815 \pm 0.086$   $\chi^2/\text{NDF}$ : 17383.9/71

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -63.631 $\pm$ 0.446  $\chi^2$ /NDF: 2011.2/16

Left Out: -32.498 $\pm$ 0.105  $\chi^2$ /NDF: 7001.9/18

Right Out: -64.590 $\pm$ 0.482  $\chi^2$ /NDF: 1594.3/17

Left In: -30.682 $\pm$ 0.102  $\chi^2$ /NDF: 6880.7/17

Left: -31.562 $\pm$ 0.073  $\chi^2$ /NDF: 14035.7/36

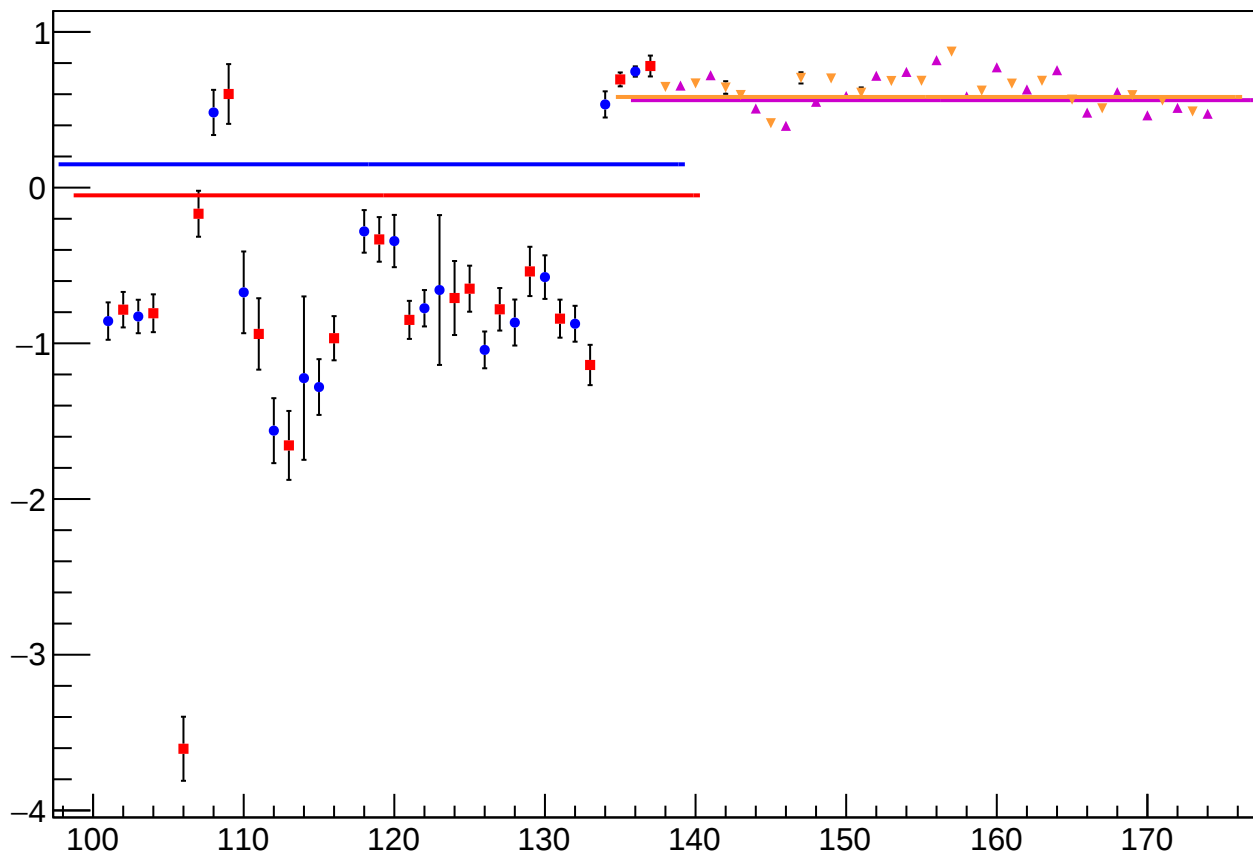
Right: -64.073 $\pm$ 0.327  $\chi^2$ /NDF: 3607.7/34

In: -32.327 $\pm$ 0.100  $\chi^2$ /NDF: 14080.9/34

Out: -33.963 $\pm$ 0.103  $\chi^2$ /NDF: 12824.0/36

All: -33.117 $\pm$ 0.072  $\chi^2$ /NDF: 27035.3/71

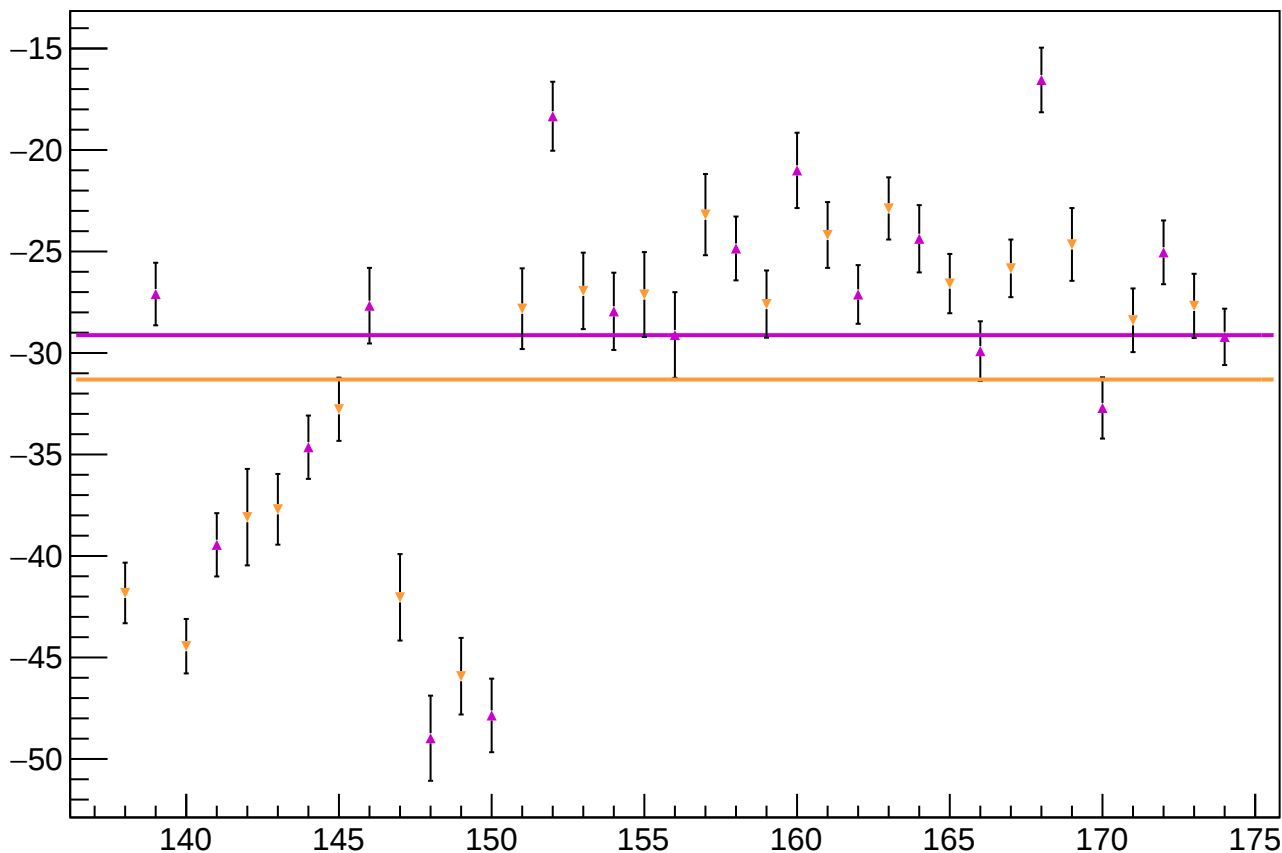
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.150 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 989.2/16  
 Left Out: 0.582 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 431.8/18  
 Right Out: -0.050 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 1154.0/17  
 Left In: 0.562 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 579.5/17

Left: 0.572 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 1020.5/36  
 Right: 0.059 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 2174.6/34  
 In: 0.547 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 1853.0/34  
 Out: 0.561 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 2147.0/36  
 All: 0.554 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 4004.9/71

reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-31.307 \pm 0.387$   $\chi^2/\text{NDF}$ : 384.8/18

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-29.122 \pm 0.387$   $\chi^2/\text{NDF}$ : 407.7/17

Left:  $-30.216 \pm 0.274$   $\chi^2/\text{NDF}$ : 808.5/36

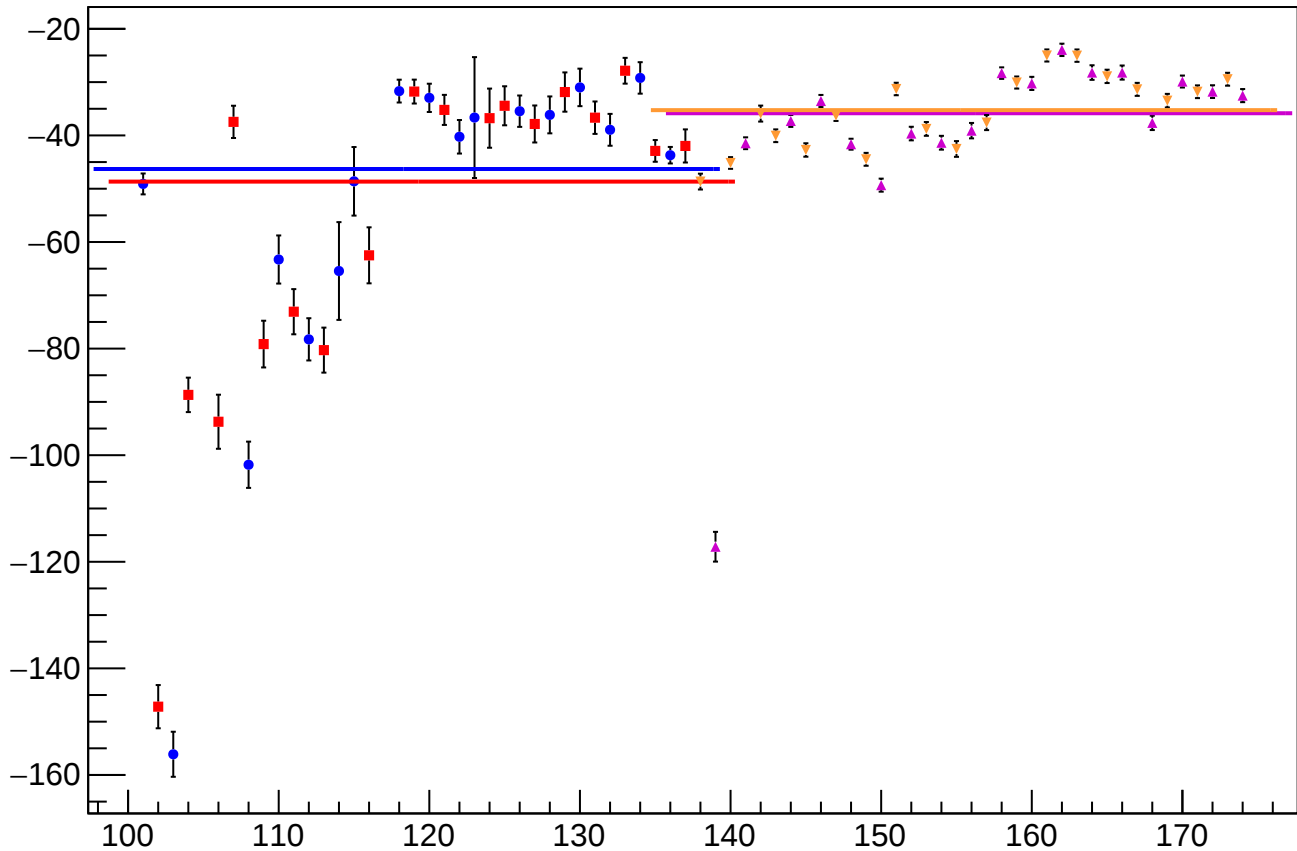
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-29.122 \pm 0.387$   $\chi^2/\text{NDF}$ : 407.7/17

Out:  $-31.307 \pm 0.387$   $\chi^2/\text{NDF}$ : 384.8/18

All:  $-30.216 \pm 0.274$   $\chi^2/\text{NDF}$ : 808.5/36

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:  $-35.258 \pm 0.282$   $\chi^2/\text{NDF}: 567.7/18$

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}: 1212.3/17$

Left In:  $-35.838 \pm 0.290$   $\chi^2/\text{NDF}: 1353.4/17$

Left:  $-35.540 \pm 0.202$   $\chi^2/\text{NDF}: 1923.2/36$

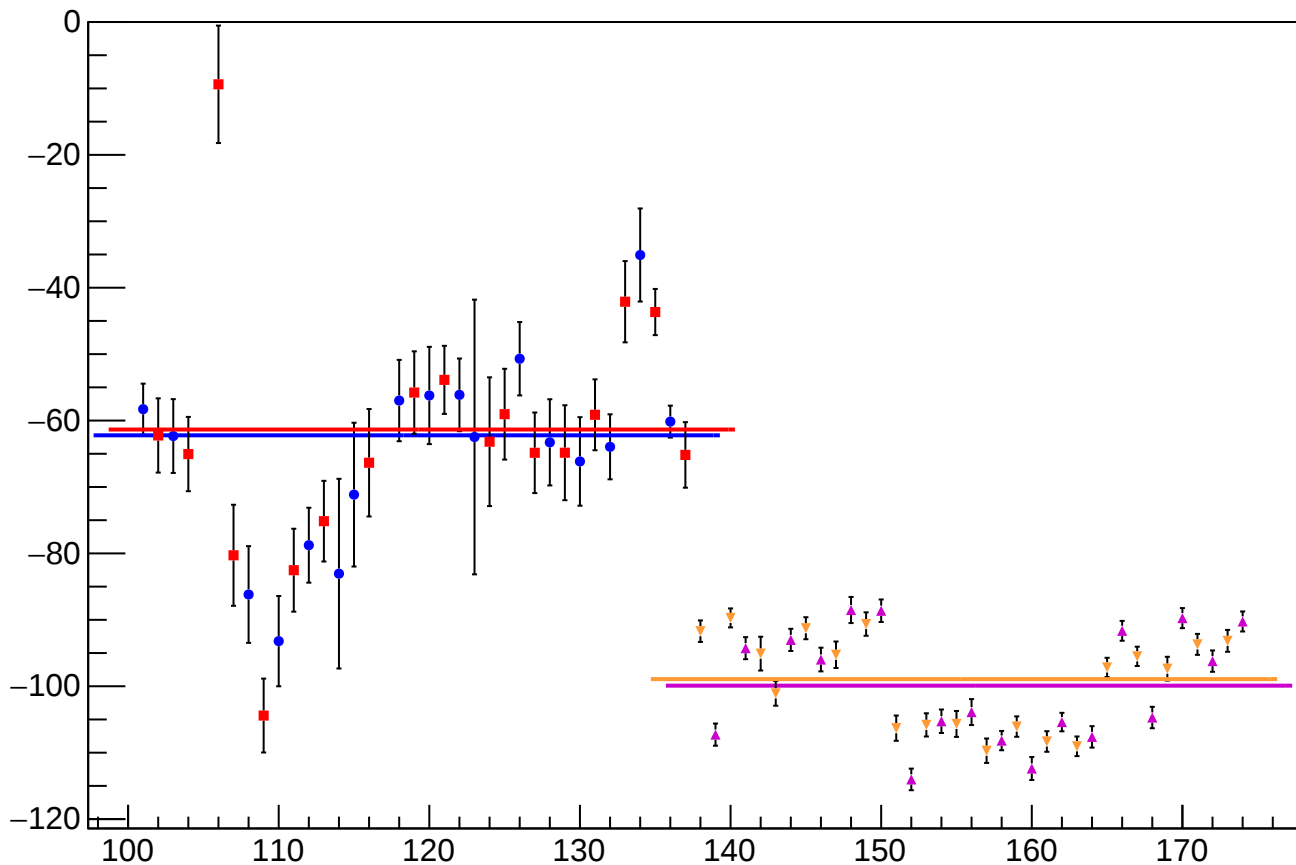
Right:  $-47.420 \pm 0.525$   $\chi^2/\text{NDF}: 2301.3/34$

In:  $-37.288 \pm 0.269$   $\chi^2/\text{NDF}: 2617.5/34$

Out:  $-36.868 \pm 0.265$   $\chi^2/\text{NDF}: 2051.5/36$

All:  $-37.074 \pm 0.189$   $\chi^2/\text{NDF}: 4670.3/71$

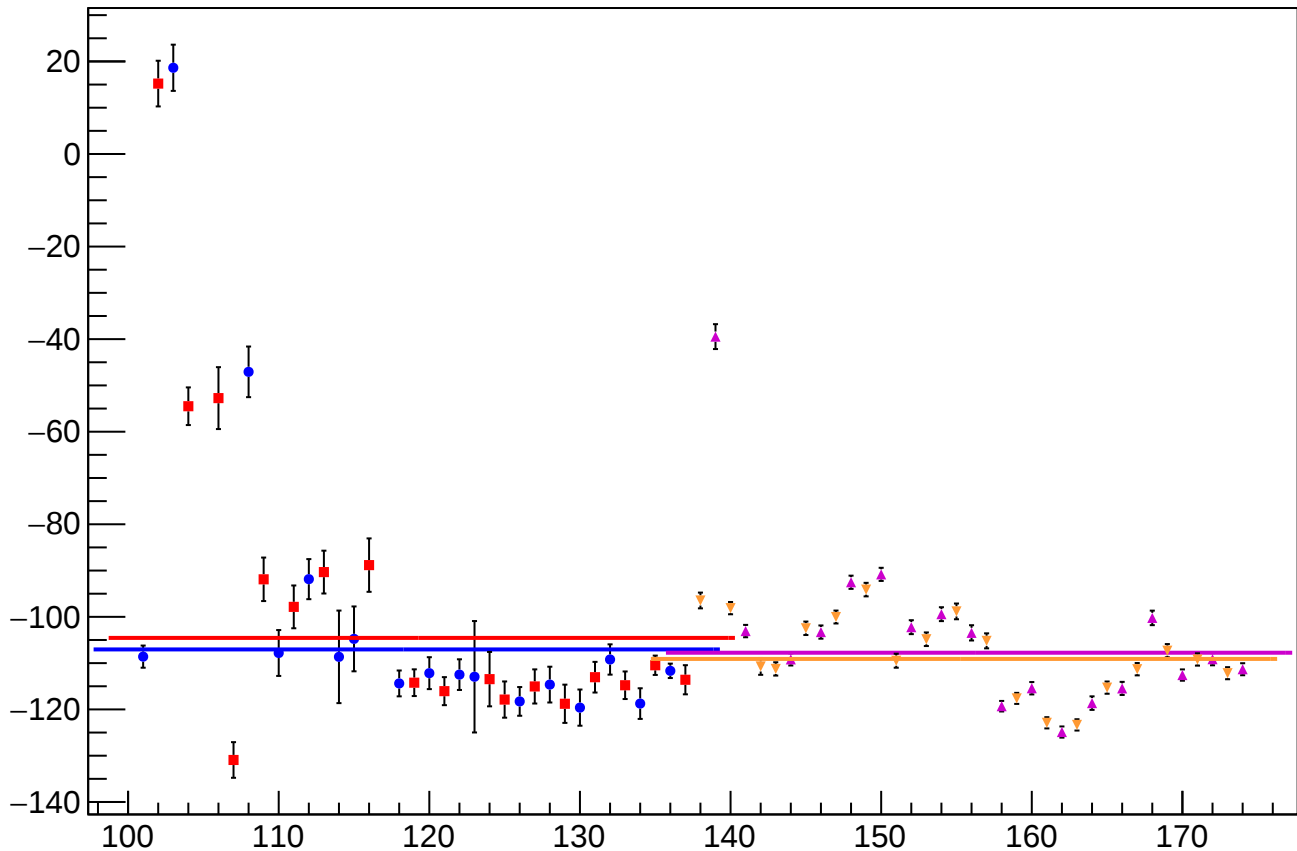
reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.221 \pm 1.312$   $\chi^2/\text{NDF}: 67.3/16$   
 Left Out:  $-98.929 \pm 0.385$   $\chi^2/\text{NDF}: 325.2/18$   
 Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}: 158.4/17$   
 Left In:  $-99.909 \pm 0.384$   $\chi^2/\text{NDF}: 473.8/17$

Left:  $-99.420 \pm 0.272$   $\chi^2/\text{NDF}: 802.3/36$   
 Right:  $-61.809 \pm 0.952$   $\chi^2/\text{NDF}: 225.9/34$   
 In:  $-96.931 \pm 0.369$   $\chi^2/\text{NDF}: 1301.5/34$   
 Out:  $-96.226 \pm 0.371$   $\chi^2/\text{NDF}: 1169.0/36$   
 All:  $-96.580 \pm 0.261$   $\chi^2/\text{NDF}: 2472.3/71$

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-107.040 \pm 0.812$   $\chi^2/\text{NDF}$ : 827.8/16

Left Out:  $-109.093 \pm 0.323$   $\chi^2/\text{NDF}$ : 692.8/18

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

Left In:  $-107.753 \pm 0.329$   $\chi^2/\text{NDF}$ : 1445.1/17

Left:  $-108.437 \pm 0.230$   $\chi^2/\text{NDF}$ : 2146.3/36

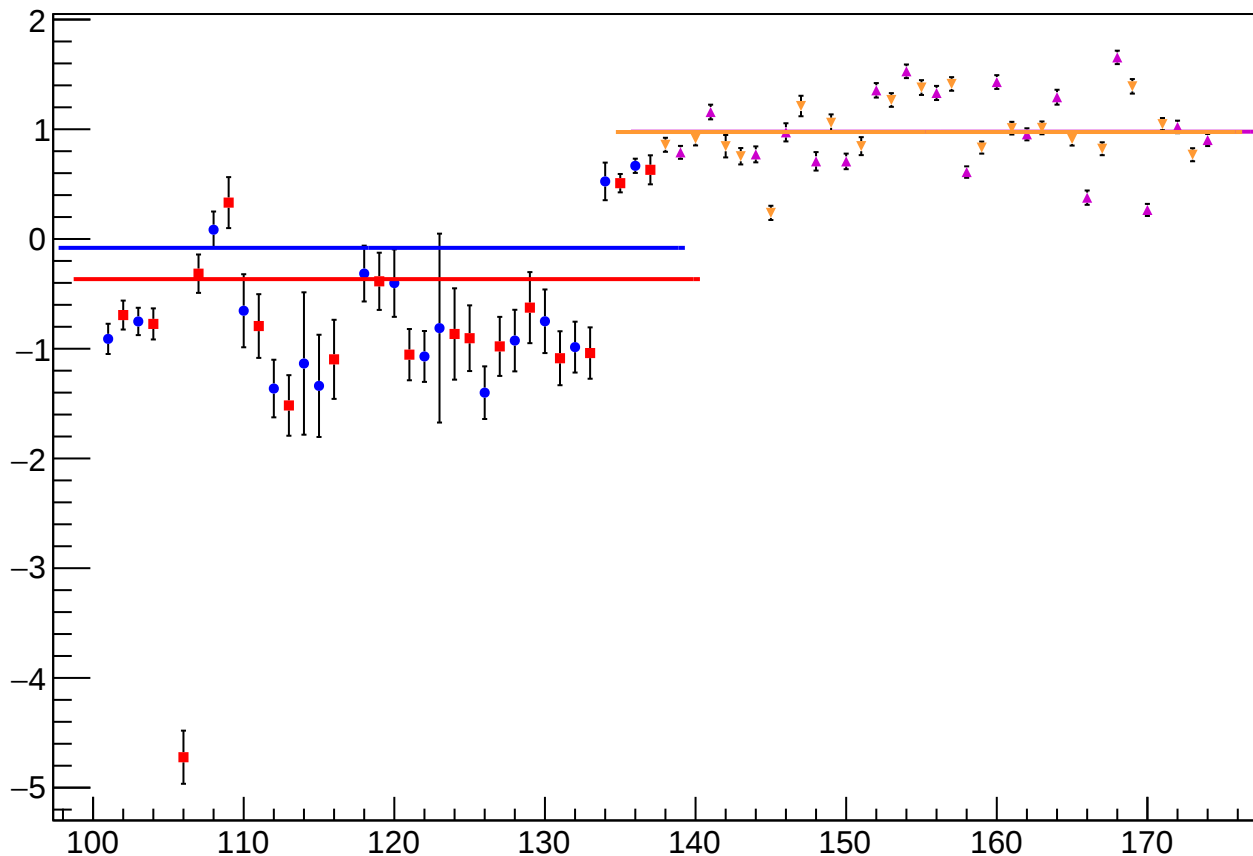
Right:  $-105.867 \pm 0.591$   $\chi^2/\text{NDF}$ : 1799.7/34

In:  $-107.653 \pm 0.305$   $\chi^2/\text{NDF}$ : 2273.6/34

Out:  $-108.533 \pm 0.302$   $\chi^2/\text{NDF}$ : 1684.6/36

All:  $-108.097 \pm 0.215$   $\chi^2/\text{NDF}$ : 3962.4/71

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:  $0.975 \pm 0.015$   $\chi^2/\text{NDF}$ : 329.8/18

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

Left In:  $0.978 \pm 0.015$   $\chi^2/\text{NDF}$ : 691.5/17

Left:  $0.976 \pm 0.011$   $\chi^2/\text{NDF}$ : 1021.3/36

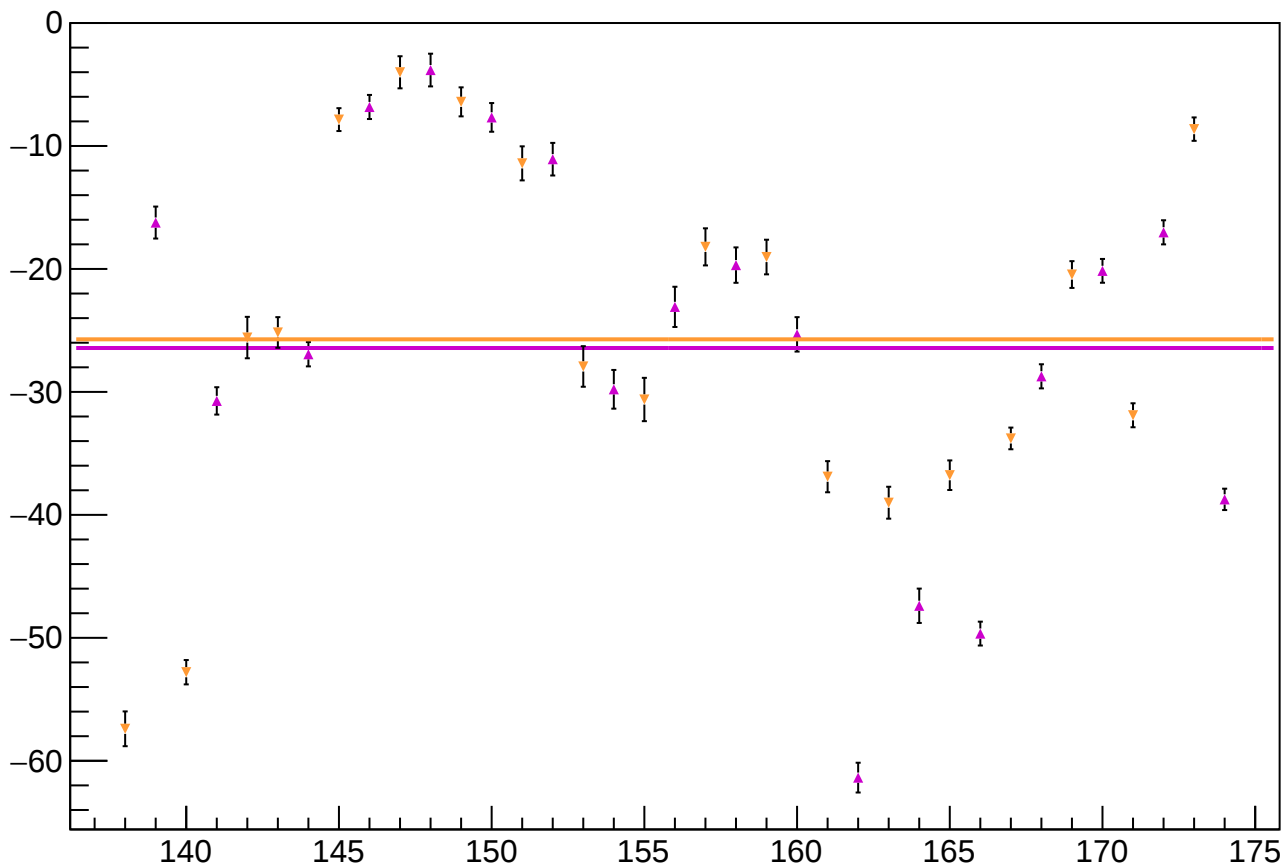
Right:  $-0.217 \pm 0.030$   $\chi^2/\text{NDF}$ : 923.5/34

In:  $0.862 \pm 0.014$   $\chi^2/\text{NDF}$ : 1580.8/34

Out:  $0.837 \pm 0.014$   $\chi^2/\text{NDF}$ : 1735.1/36

All:  $0.849 \pm 0.010$   $\chi^2/\text{NDF}$ : 3317.5/71

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.724+/-0.274  $\chi^2/\text{NDF}$ :3063.7/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -26.429+/-0.269  $\chi^2/\text{NDF}$ :3160.5/17

Left: -26.083+/-0.192  $\chi^2/\text{NDF}$ : 6227.7/36

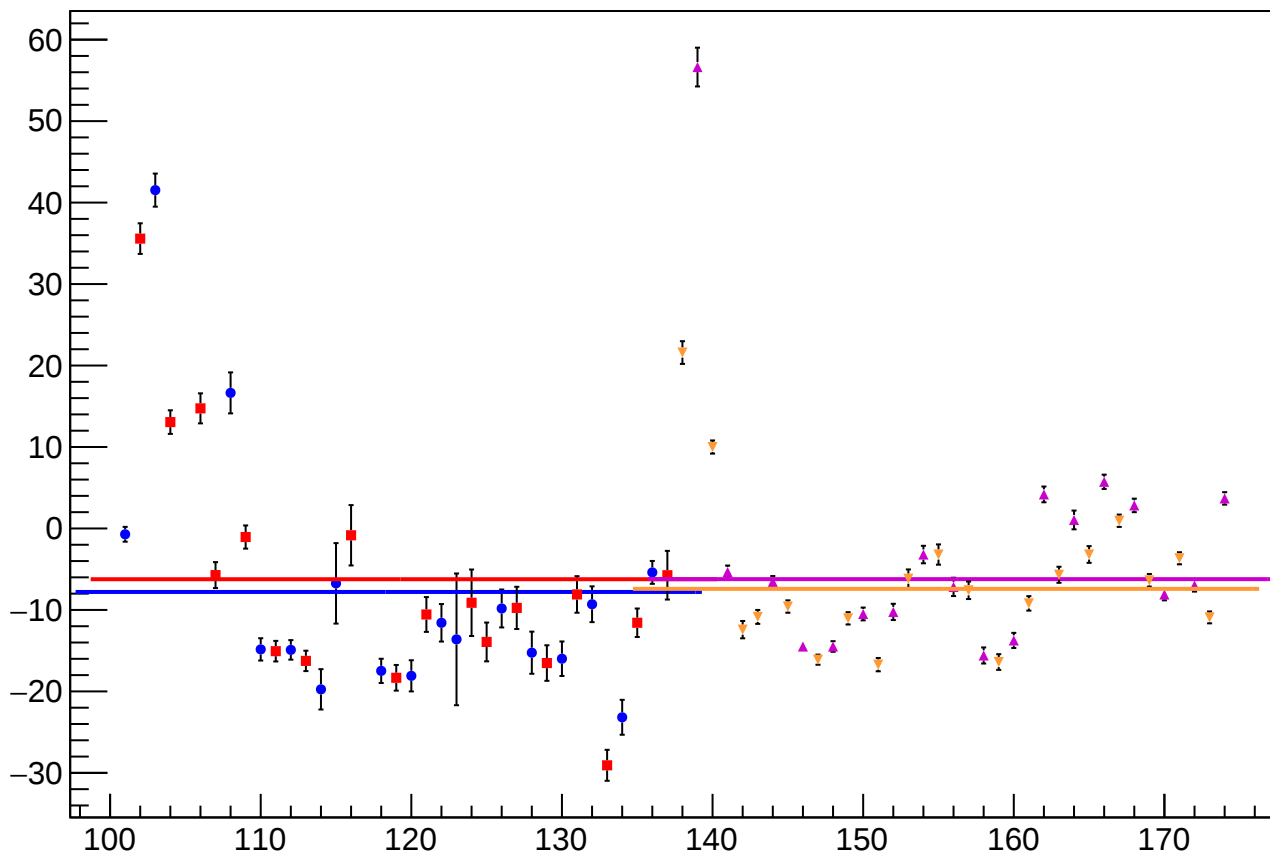
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -26.429+/-0.269  $\chi^2/\text{NDF}$ :3160.5/17

Out: -25.724+/-0.274  $\chi^2/\text{NDF}$ :3063.7/18

All: -26.083+/-0.192  $\chi^2/\text{NDF}$ : 6227.7/36

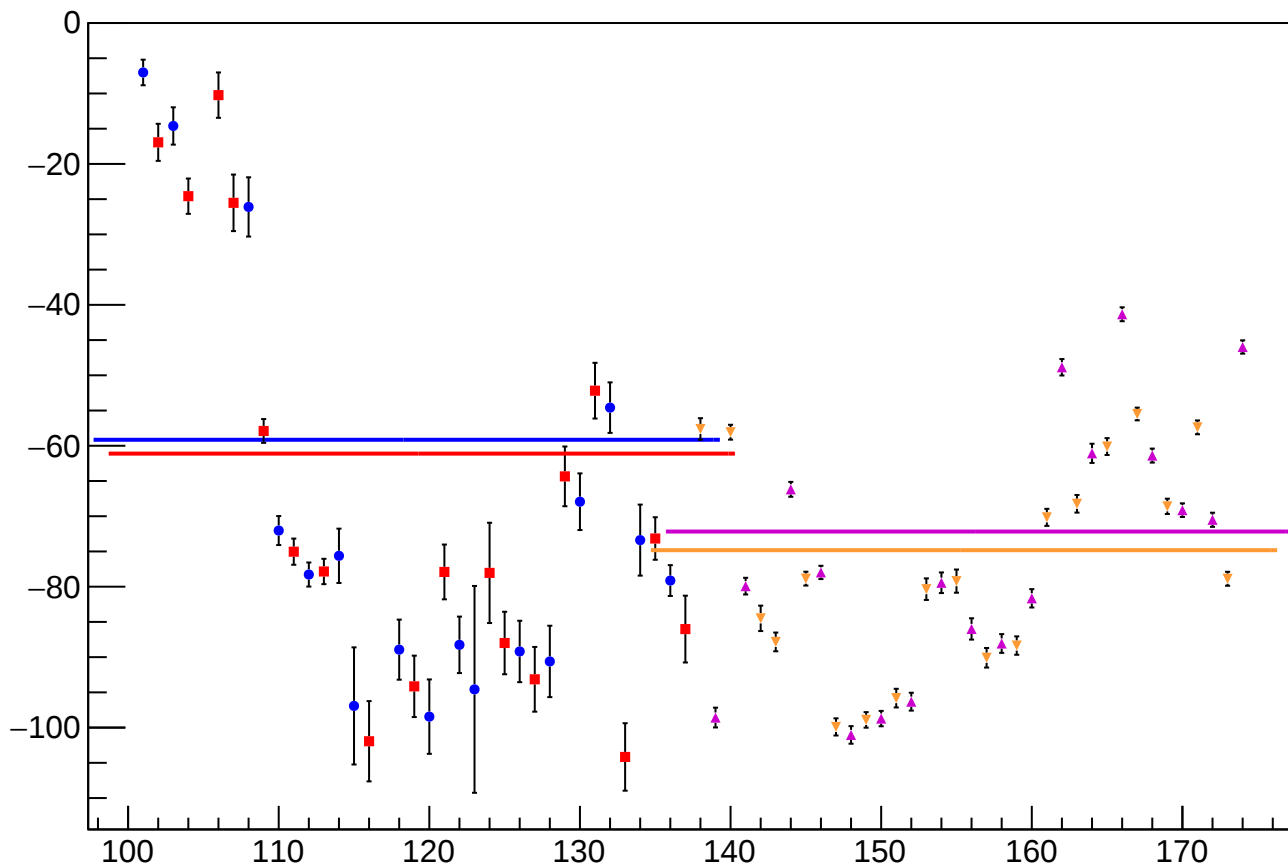
reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.794 \pm 0.428$   $\chi^2/\text{NDF}: 982.7/16$   
 Left Out:  $-7.413 \pm 0.198$   $\chi^2/\text{NDF}: 1586.1/18$   
 Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}: 1183.0/17$   
 Left In:  $-6.219 \pm 0.199$   $\chi^2/\text{NDF}: 1884.9/17$

Left:  $-6.820 \pm 0.140$   $\chi^2/\text{NDF}: 3489.1/36$   
 Right:  $-7.016 \pm 0.303$   $\chi^2/\text{NDF}: 2172.3/34$   
 In:  $-6.499 \pm 0.181$   $\chi^2/\text{NDF}: 2878.8/34$   
 Out:  $-7.206 \pm 0.180$   $\chi^2/\text{NDF}: 2775.3/36$   
 All:  $-6.854 \pm 0.127$   $\chi^2/\text{NDF}: 5661.7/71$

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:  $-74.821 \pm 0.274$   $\chi^2/\text{NDF}$ : 2937.3/18

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

Left In:  $-72.175 \pm 0.268$   $\chi^2/\text{NDF}$ : 4602.5/17

Left:  $-73.471 \pm 0.192$   $\chi^2/\text{NDF}$ : 7587.4/36

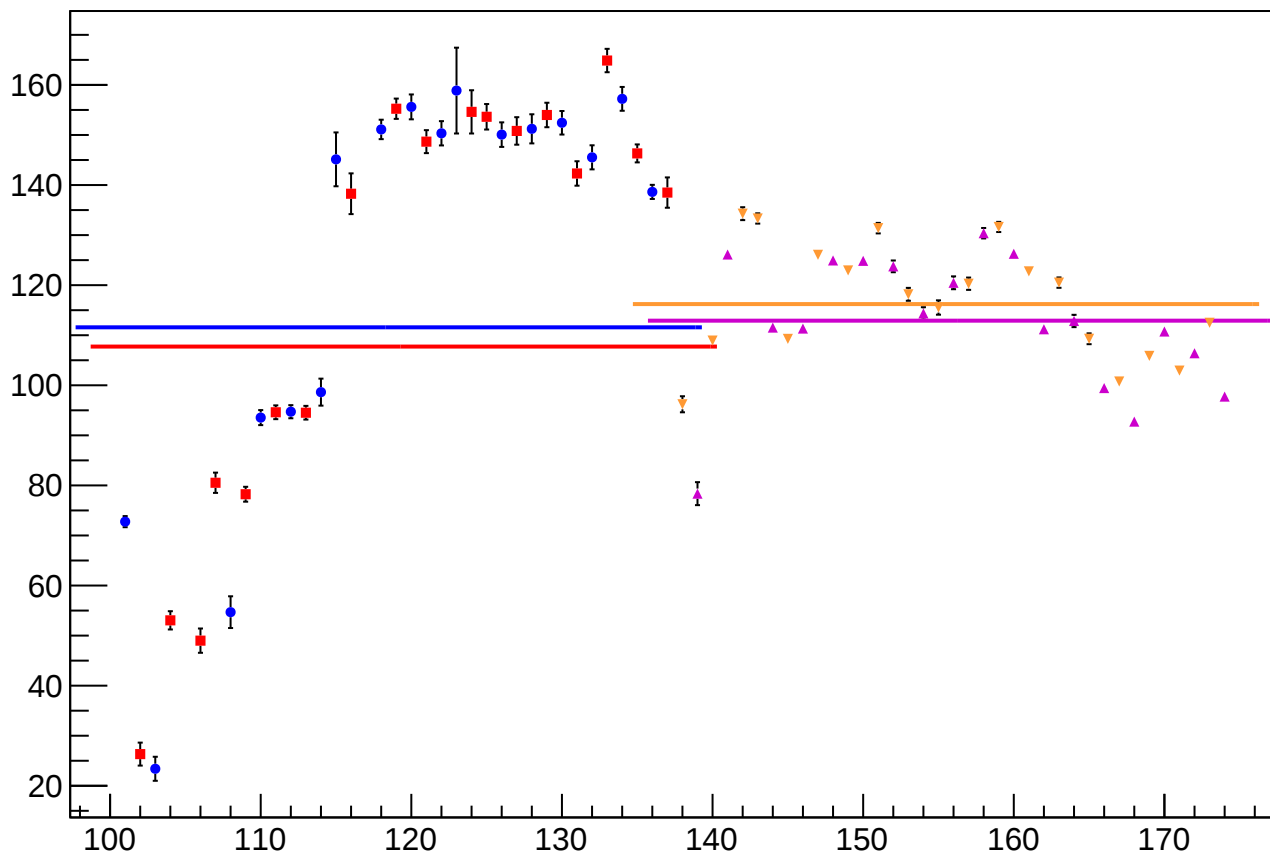
Right:  $-60.182 \pm 0.513$   $\chi^2/\text{NDF}$ : 3039.8/34

In:  $-70.681 \pm 0.252$   $\chi^2/\text{NDF}$ : 6591.2/34

Out:  $-73.038 \pm 0.255$   $\chi^2/\text{NDF}$ : 4581.4/36

All:  $-71.846 \pm 0.179$   $\chi^2/\text{NDF}$ : 11215.7/71

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: 116.222 $\pm$ 0.228  $\chi^2$ /NDF:2263.4/18

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

Left In: 112.909 $\pm$ 0.228  $\chi^2$ /NDF:2415.9/17

Left: 114.567 $\pm$ 0.161  $\chi^2$ /NDF: 4784.7/36

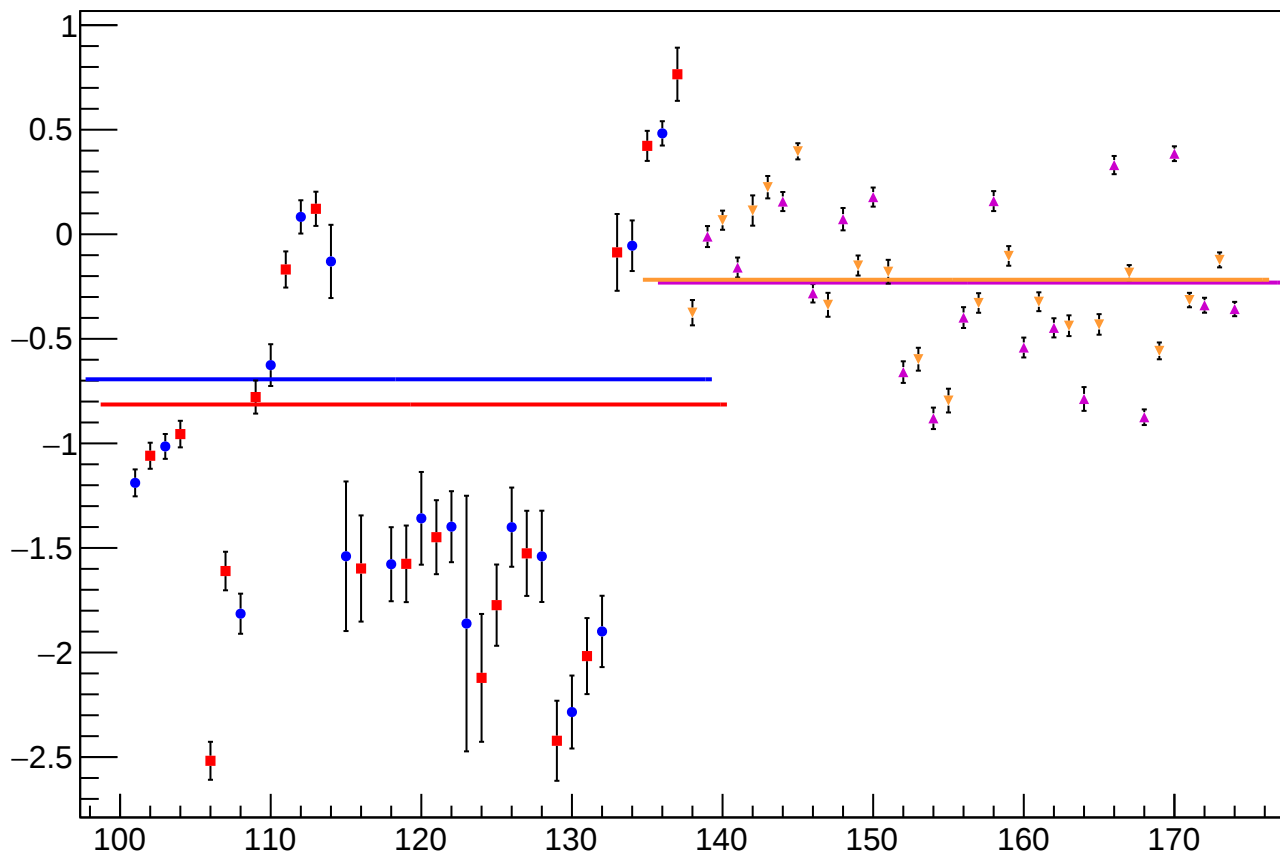
Right: 109.661 $\pm$ 0.345  $\chi^2$ /NDF: 12813.2/34

In: 112.670 $\pm$ 0.207  $\chi^2$ /NDF:8367.9/34

Out: 114.703 $\pm$ 0.207  $\chi^2$ /NDF:9347.3/36

All: 113.687 $\pm$ 0.146  $\chi^2$ /NDF: 17763.6/71

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.694+/-0.026  $\chi^2/\text{NDF}$ : 990.7/16

Left Out: -0.217+/-0.011  $\chi^2/\text{NDF}$ : 689.3/18

Right Out: -0.814+/-0.024  $\chi^2/\text{NDF}$ : 1308.8/17

Left In: -0.231+/-0.010  $\chi^2/\text{NDF}$ : 1463.8/17

Left: -0.224+/-0.007  $\chi^2/\text{NDF}$ : 2153.9/36

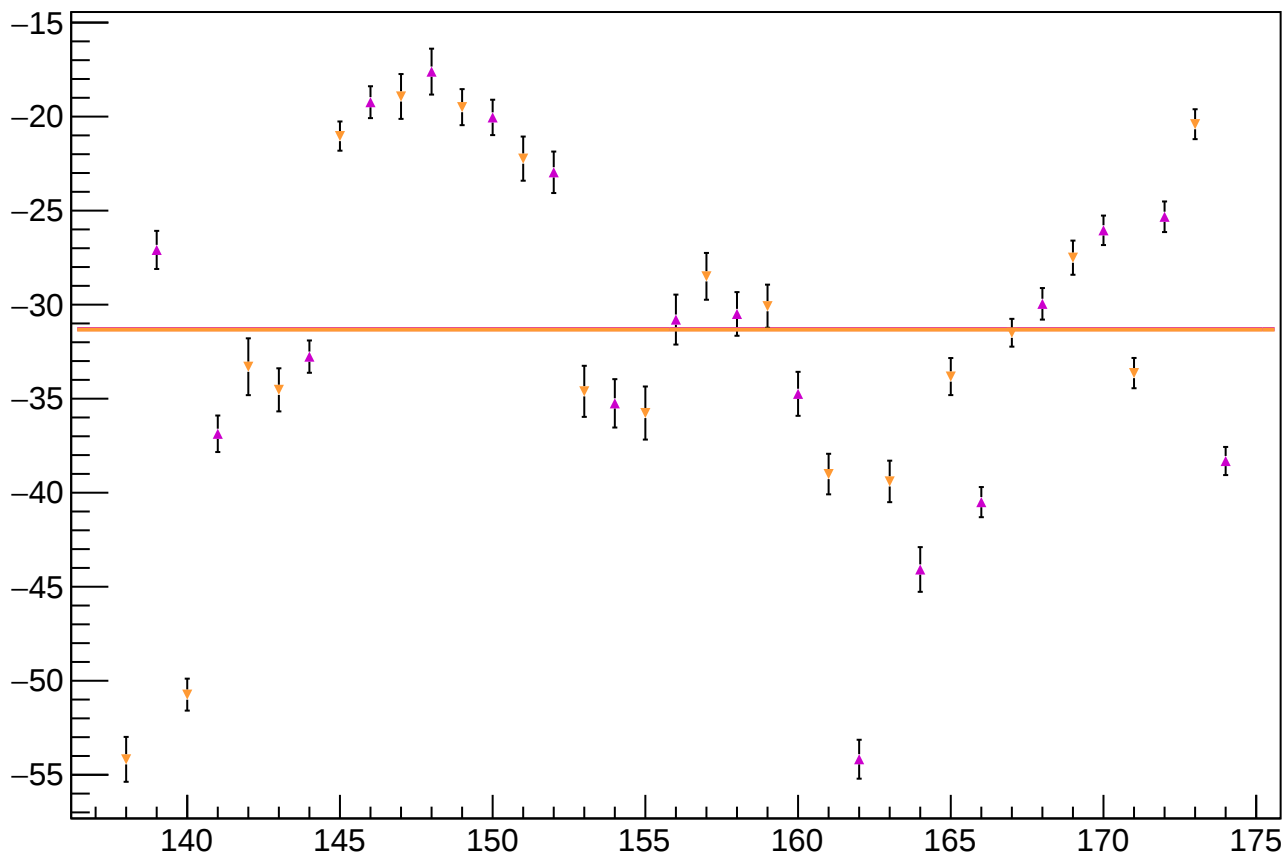
Right: -0.757+/-0.018  $\chi^2/\text{NDF}$ : 2310.9/34

In: -0.296+/-0.010  $\chi^2/\text{NDF}$ : 2730.5/34

Out: -0.312+/-0.010  $\chi^2/\text{NDF}$ : 2497.7/36

All: -0.304+/-0.007  $\chi^2/\text{NDF}$ : 5229.5/71

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: -31.326+/-0.231  $\chi^2/\text{NDF}$ :1741.1/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -31.301+/-0.226  $\chi^2/\text{NDF}$ :1526.0/17

Left: -31.313+/-0.161  $\chi^2/\text{NDF}$ : 3267.2/36

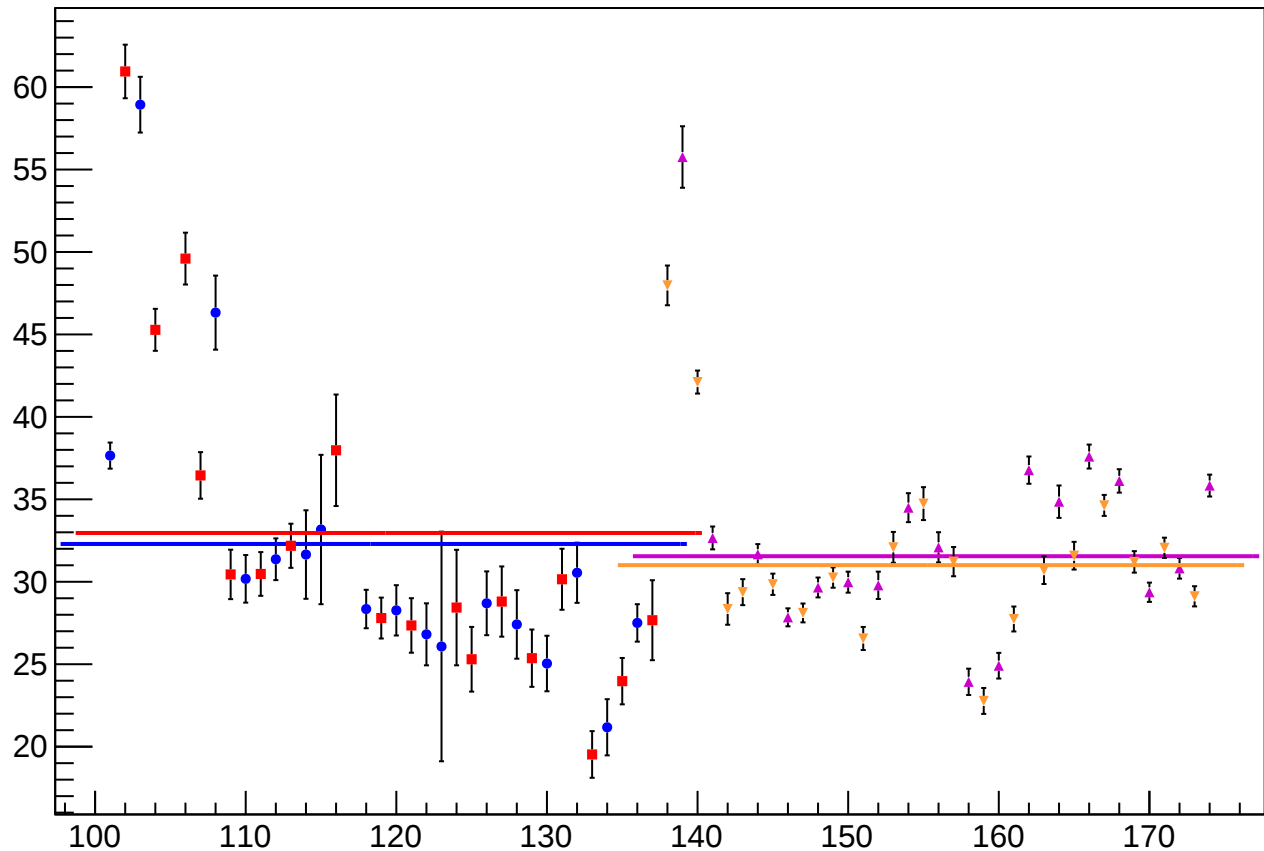
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.301+/-0.226  $\chi^2/\text{NDF}$ :1526.0/17

Out: -31.326+/-0.231  $\chi^2/\text{NDF}$ :1741.1/18

All: -31.313+/-0.161  $\chi^2/\text{NDF}$ : 3267.2/36

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:  $31.009 \pm 0.168$   $\chi^2/\text{NDF}: 723.9/18$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

Left In:  $31.551 \pm 0.169$   $\chi^2/\text{NDF}: 632.0/17$

Left:  $31.278 \pm 0.119$   $\chi^2/\text{NDF}: 1361.0/36$

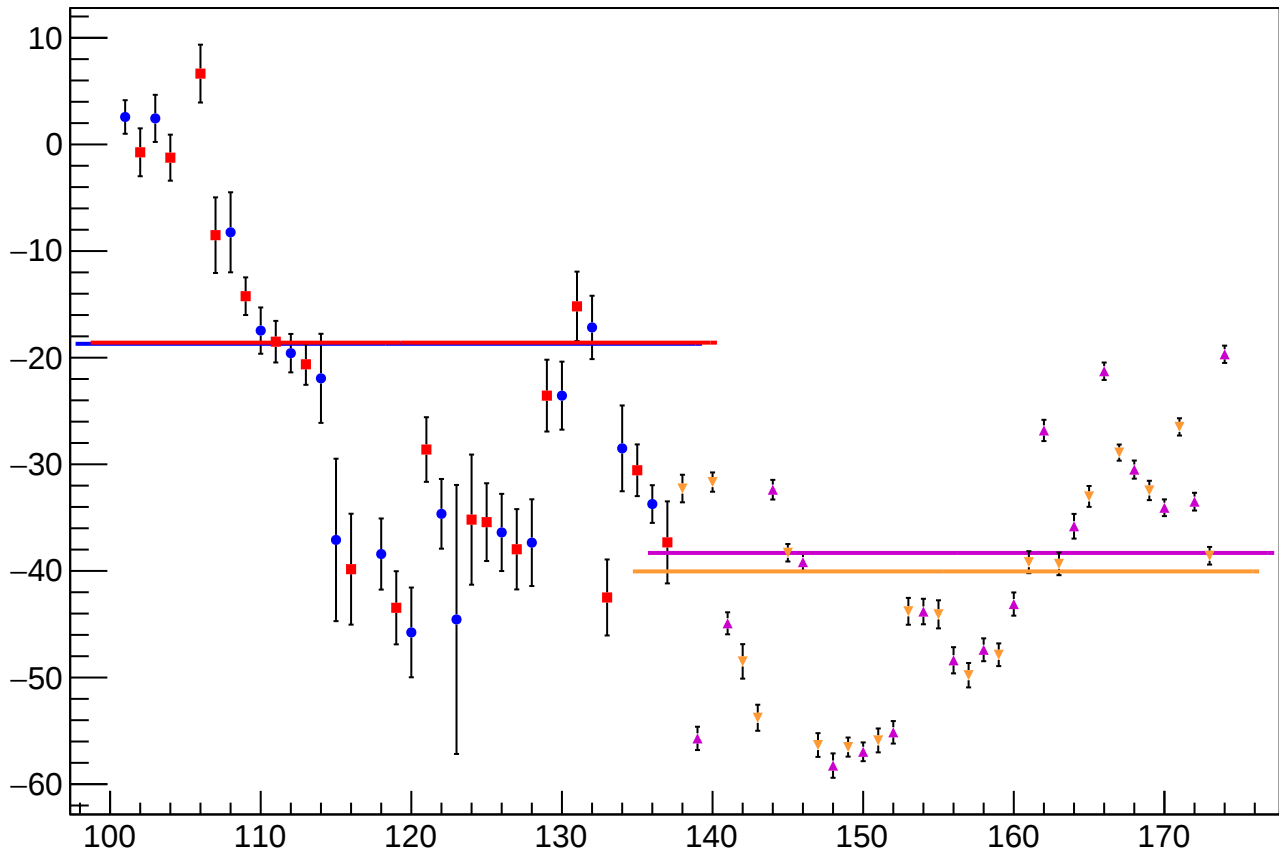
Right:  $32.620 \pm 0.266$   $\chi^2/\text{NDF}: 1178.1/34$

In:  $31.677 \pm 0.154$   $\chi^2/\text{NDF}: 1087.8/34$

Out:  $31.329 \pm 0.154$   $\chi^2/\text{NDF}: 1469.9/36$

All:  $31.503 \pm 0.109$   $\chi^2/\text{NDF}: 2560.3/71$

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:  $-40.045 \pm 0.230$   $\chi^2/\text{NDF}: 1798.6/18$

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}: 461.3/17$

Left In:  $-38.313 \pm 0.225$   $\chi^2/\text{NDF}: 2770.8/17$

Left:  $-39.160 \pm 0.161$   $\chi^2/\text{NDF}: 4598.3/36$

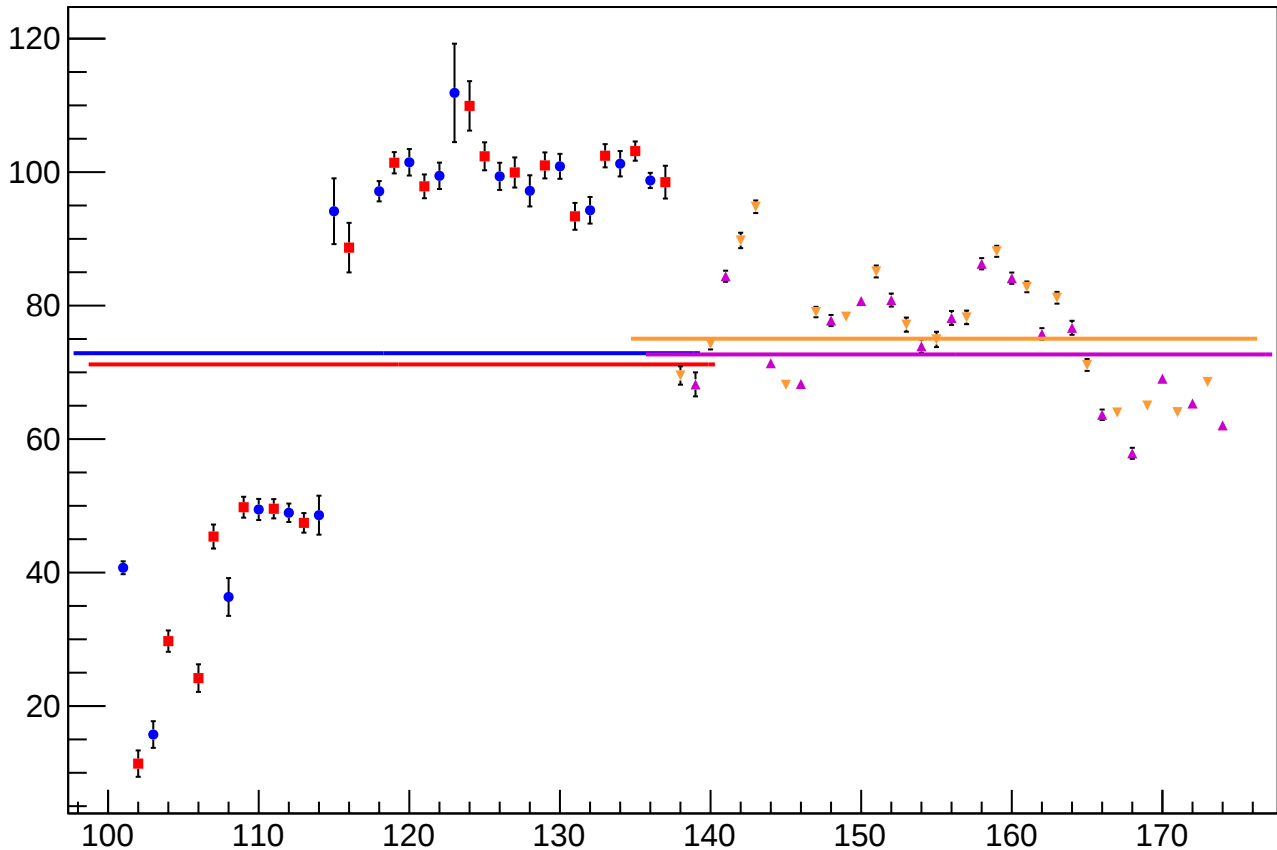
Right:  $-18.643 \pm 0.464$   $\chi^2/\text{NDF}: 980.4/34$

In:  $-36.303 \pm 0.213$   $\chi^2/\text{NDF}: 4067.1/34$

Out:  $-37.638 \pm 0.217$   $\chi^2/\text{NDF}: 3234.5/36$

All:  $-36.959 \pm 0.152$   $\chi^2/\text{NDF}: 7320.8/71$

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.870 $\pm$ 0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 75.044 $\pm$ 0.193  $\chi^2$ /NDF:2099.7/18

Right Out: 71.190 $\pm$ 0.434  $\chi^2$ /NDF: 5375.1/17

Left In: 72.684 $\pm$ 0.193  $\chi^2$ /NDF:1810.3/17

Left: 73.865 $\pm$ 0.136  $\chi^2$ /NDF: 3984.8/36

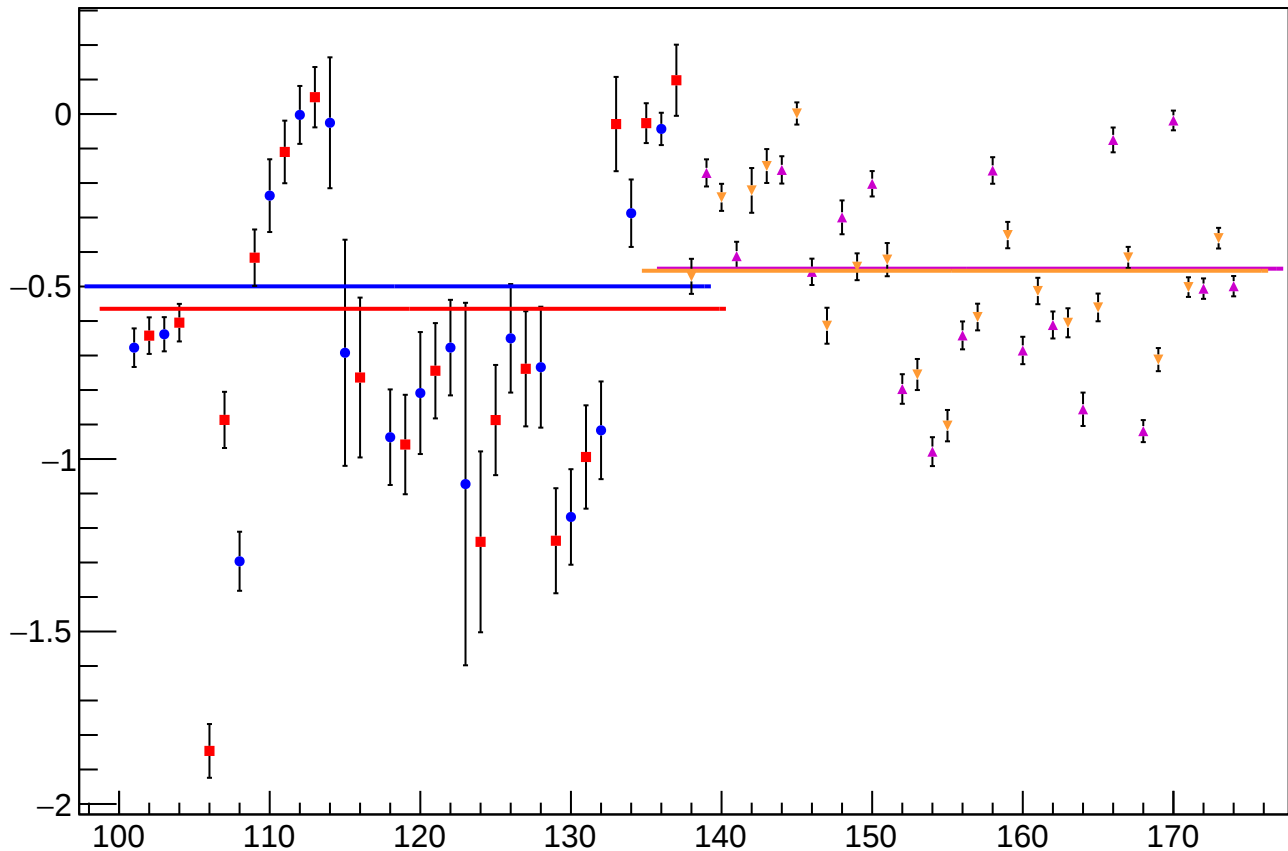
Right: 72.045 $\pm$ 0.304  $\chi^2$ /NDF: 10109.9/34

In: 72.716 $\pm$ 0.176  $\chi^2$ /NDF:6537.5/34

Out: 74.409 $\pm$ 0.176  $\chi^2$ /NDF:7540.7/36

All: 73.560 $\pm$ 0.124  $\chi^2$ /NDF: 14124.5/71

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:  $-0.454 \pm 0.009$   $\chi^2/\text{NDF}$ : 548.3/18

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

Left In:  $-0.448 \pm 0.009$   $\chi^2/\text{NDF}$ : 1142.1/17

Left:  $-0.451 \pm 0.006$   $\chi^2/\text{NDF}$ : 1690.7/36

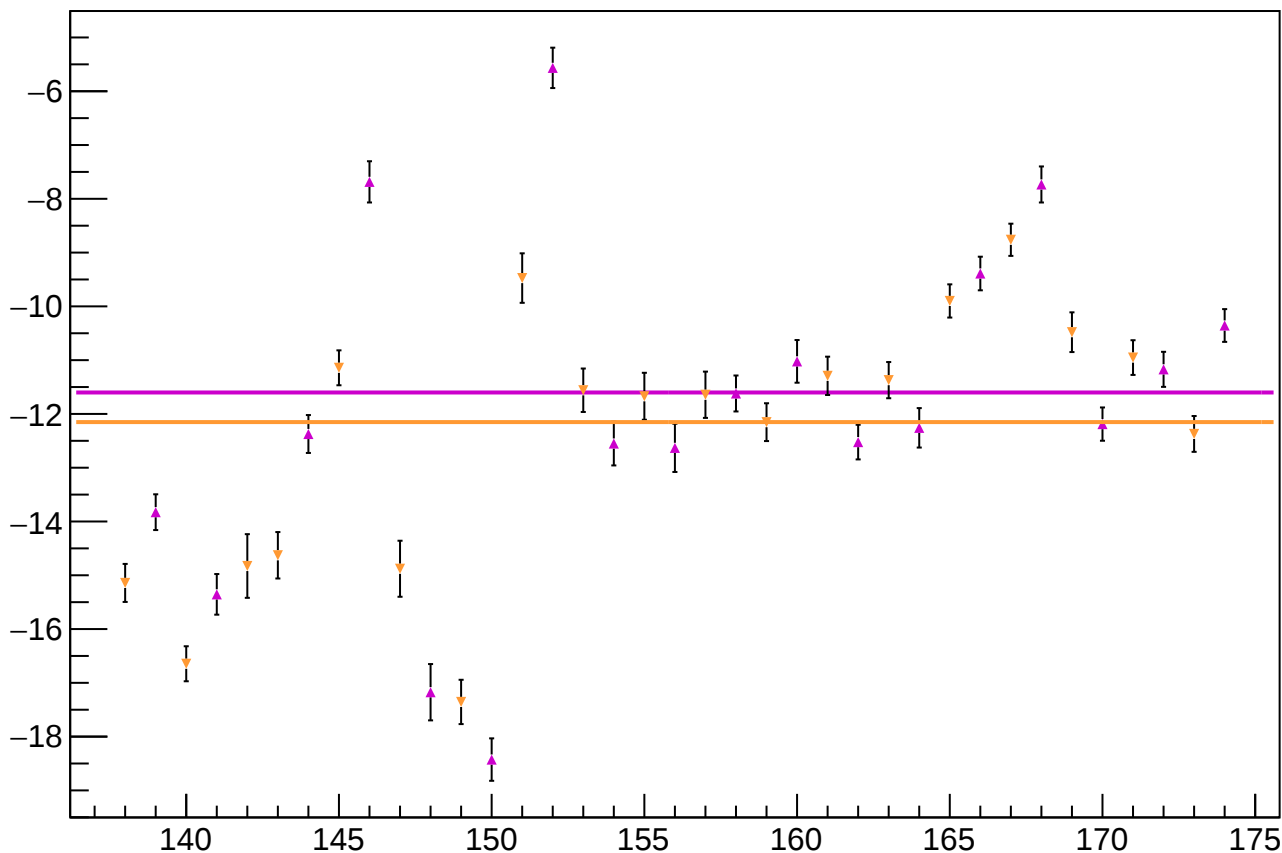
Right:  $-0.533 \pm 0.015$   $\chi^2/\text{NDF}$ : 866.4/34

In:  $-0.455 \pm 0.008$   $\chi^2/\text{NDF}$ : 1449.3/34

Out:  $-0.470 \pm 0.008$   $\chi^2/\text{NDF}$ : 1130.1/36

All:  $-0.463 \pm 0.006$   $\chi^2/\text{NDF}$ : 2581.1/71

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-12.152 \pm 0.085$   $\chi^2/\text{NDF}$ : 778.3/18

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-11.601 \pm 0.084$   $\chi^2/\text{NDF}$ : 1153.4/17

Left:  $-11.874 \pm 0.060$   $\chi^2/\text{NDF}$ : 1952.9/36

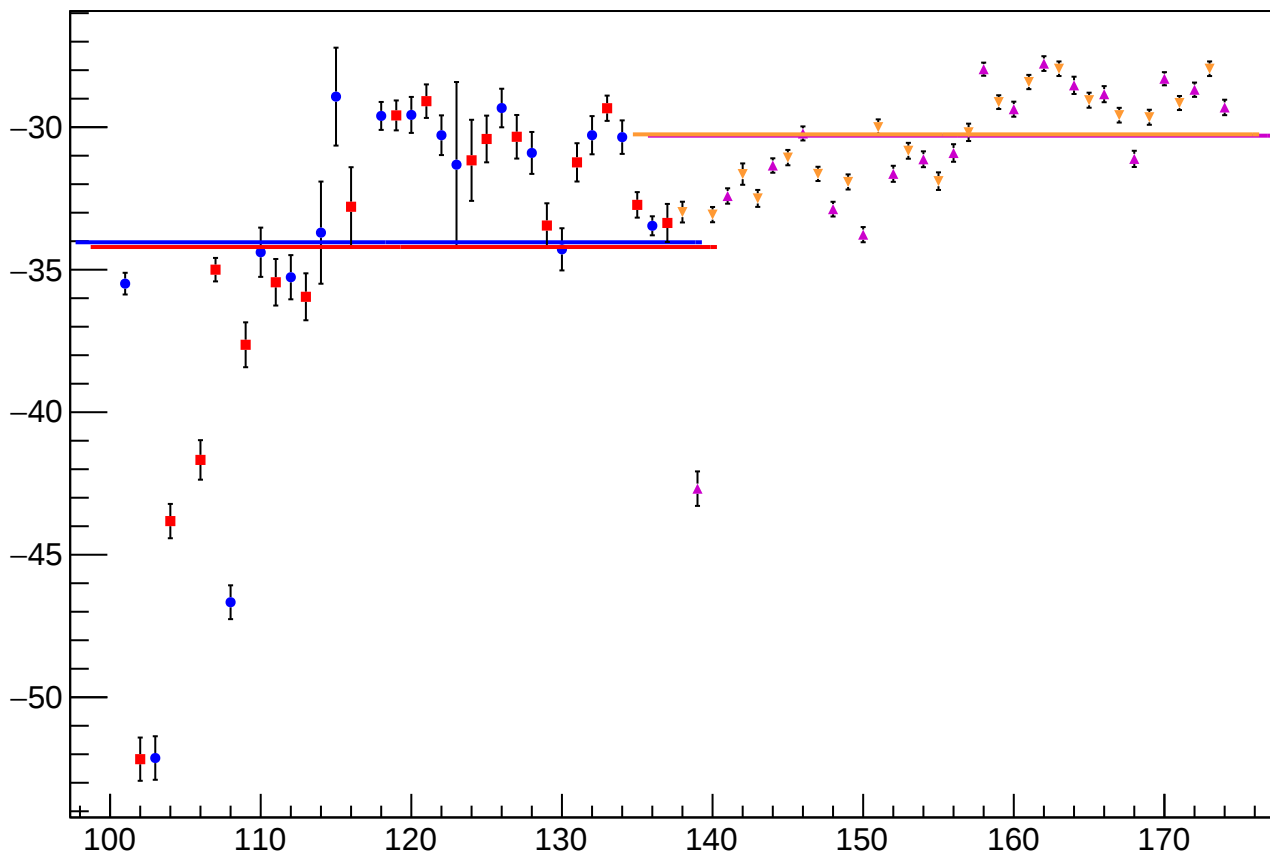
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-11.601 \pm 0.084$   $\chi^2/\text{NDF}$ : 1153.4/17

Out:  $-12.152 \pm 0.085$   $\chi^2/\text{NDF}$ : 778.3/18

All:  $-11.874 \pm 0.060$   $\chi^2/\text{NDF}$ : 1952.9/36

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-34.038 \pm 0.151$   $\chi^2/\text{NDF}$ : 1342.9/16

Left Out:  $-30.252 \pm 0.063$   $\chi^2/\text{NDF}$ : 640.5/18

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

Left In:  $-30.298 \pm 0.064$   $\chi^2/\text{NDF}$ : 1209.8/17

Left:  $-30.275 \pm 0.045$   $\chi^2/\text{NDF}$ : 1850.6/36

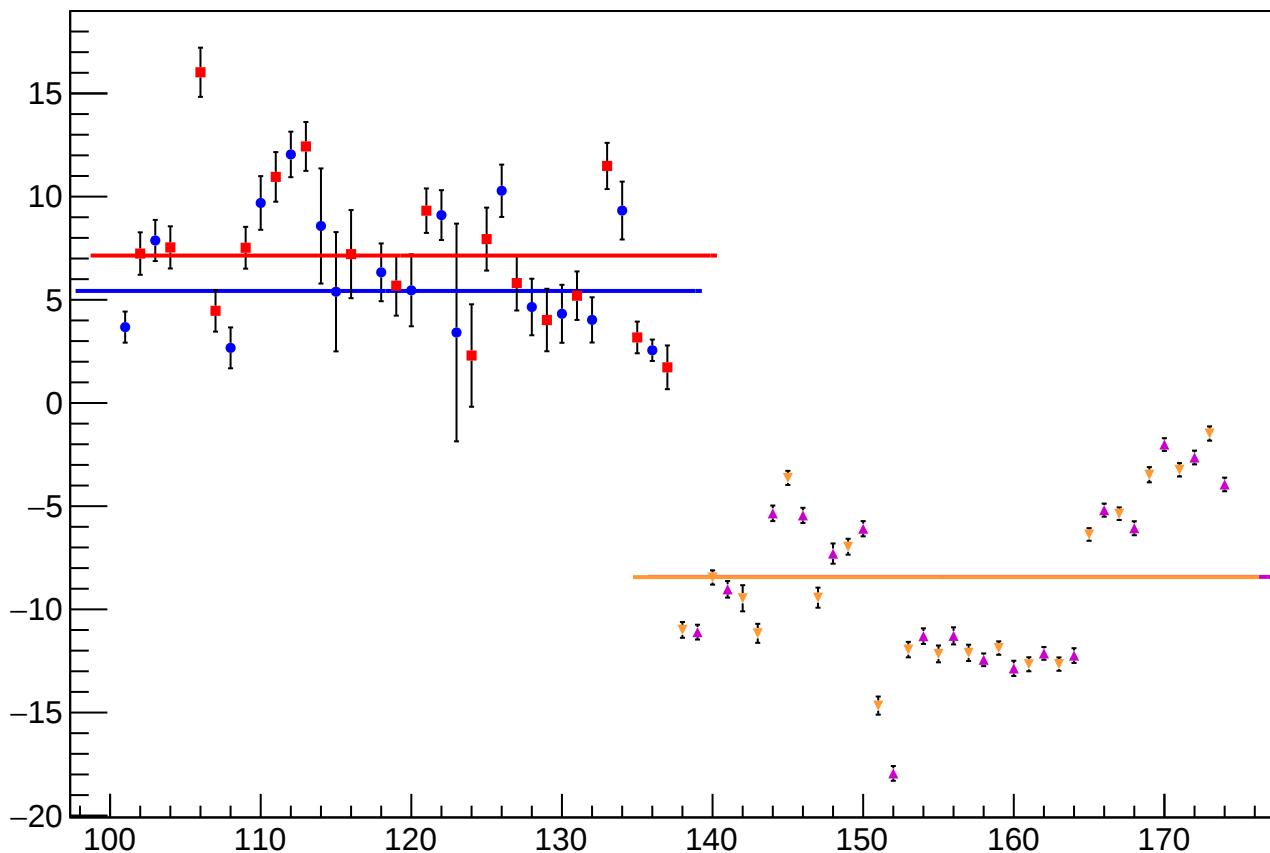
Right:  $-34.121 \pm 0.107$   $\chi^2/\text{NDF}$ : 2664.3/34

In:  $-30.865 \pm 0.059$   $\chi^2/\text{NDF}$ : 3074.0/34

Out:  $-30.833 \pm 0.058$   $\chi^2/\text{NDF}$ : 2547.2/36

All:  $-30.849 \pm 0.041$   $\chi^2/\text{NDF}$ : 5621.3/71

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:  $-8.437 \pm 0.084$   $\chi^2/\text{NDF}$ : 2173.8/18

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

Left In:  $-8.427 \pm 0.083$   $\chi^2/\text{NDF}$ : 2679.9/17

Left:  $-8.432 \pm 0.059$   $\chi^2/\text{NDF}$ : 4853.7/36

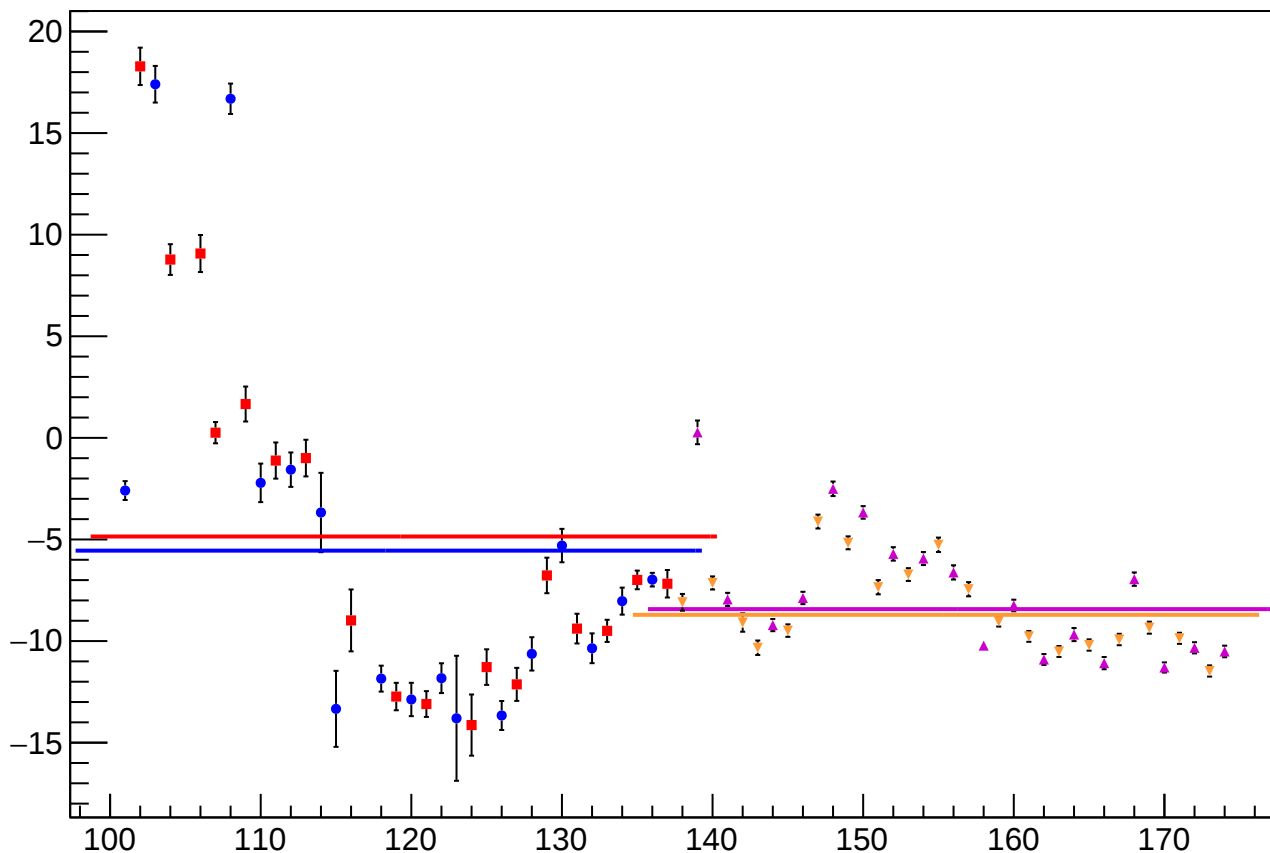
Right:  $6.271 \pm 0.193$   $\chi^2/\text{NDF}$ : 330.3/34

In:  $-7.218 \pm 0.080$   $\chi^2/\text{NDF}$ : 5218.2/34

Out:  $-7.095 \pm 0.081$   $\chi^2/\text{NDF}$ : 5286.9/36

All:  $-7.157 \pm 0.057$   $\chi^2/\text{NDF}$ : 10506.2/71

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-5.550 \pm 0.170$   $\chi^2/\text{NDF}$ : 2126.6/16

Left Out:  $-8.708 \pm 0.071$   $\chi^2/\text{NDF}$ : 749.9/18

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

Left In:  $-8.428 \pm 0.072$   $\chi^2/\text{NDF}$ : 1383.3/17

Left:  $-8.570 \pm 0.051$   $\chi^2/\text{NDF}$ : 2140.9/36

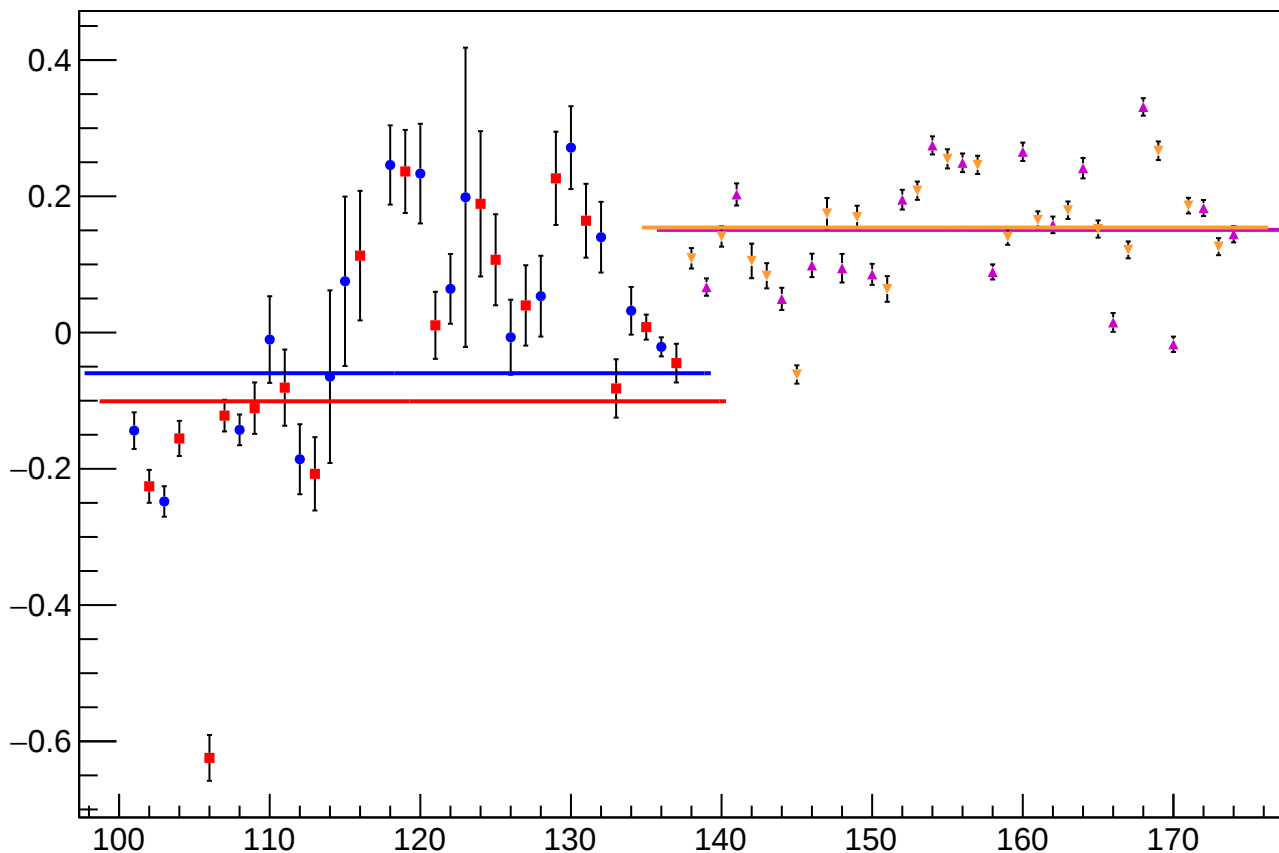
Right:  $-5.208 \pm 0.121$   $\chi^2/\text{NDF}$ : 4147.9/34

In:  $-7.992 \pm 0.066$   $\chi^2/\text{NDF}$ : 3752.9/34

Out:  $-8.151 \pm 0.066$   $\chi^2/\text{NDF}$ : 3188.3/36

All:  $-8.072 \pm 0.047$   $\chi^2/\text{NDF}$ : 6944.1/71

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:  $0.154 \pm 0.003$   $\chi^2/\text{NDF}$ : 519.0/18

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

Left In:  $0.151 \pm 0.003$   $\chi^2/\text{NDF}$ : 939.4/17

Left:  $0.152 \pm 0.002$   $\chi^2/\text{NDF}$ : 1458.9/36

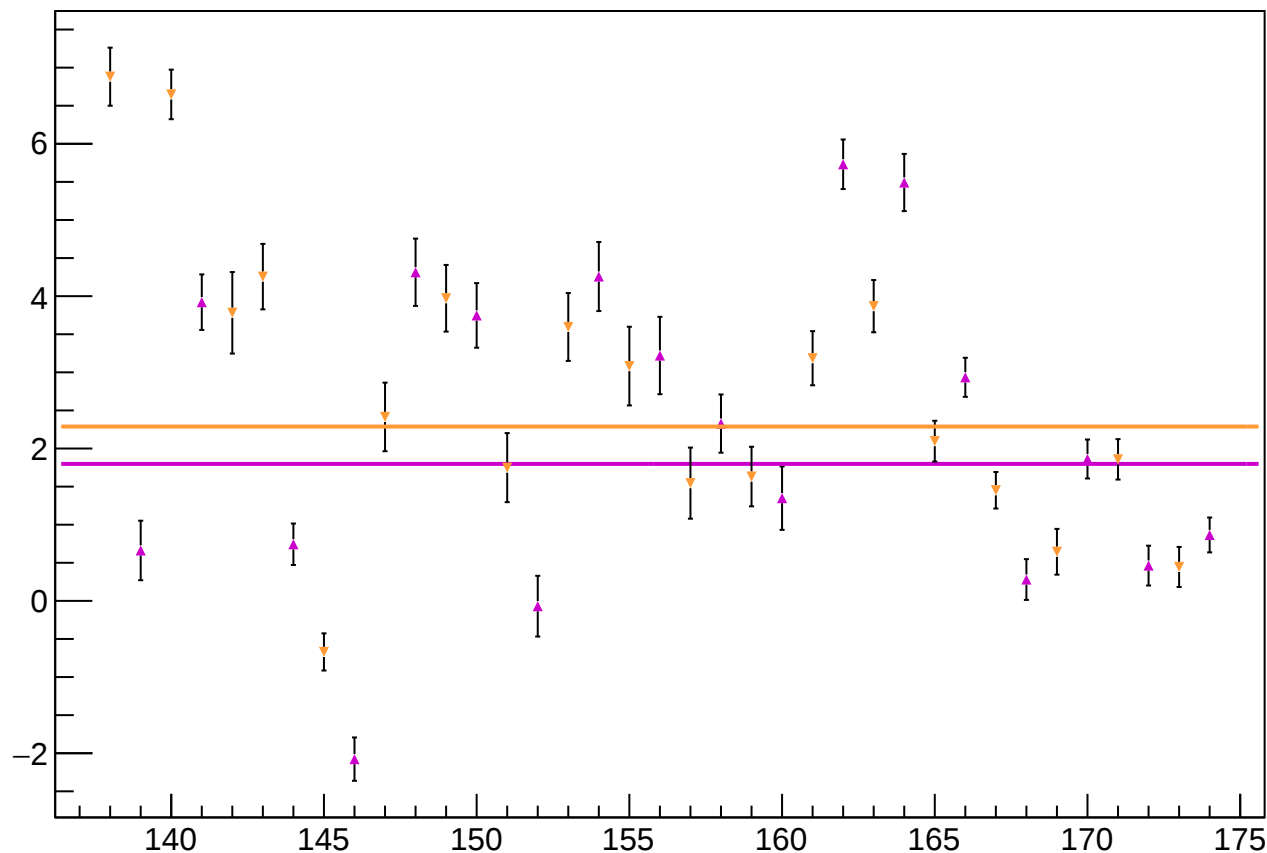
Right:  $-0.080 \pm 0.006$   $\chi^2/\text{NDF}$ : 656.9/34

In:  $0.124 \pm 0.003$   $\chi^2/\text{NDF}$ : 1704.3/34

Out:  $0.121 \pm 0.003$   $\chi^2/\text{NDF}$ : 1742.5/36

All:  $0.123 \pm 0.002$   $\chi^2/\text{NDF}$ : 3447.2/71

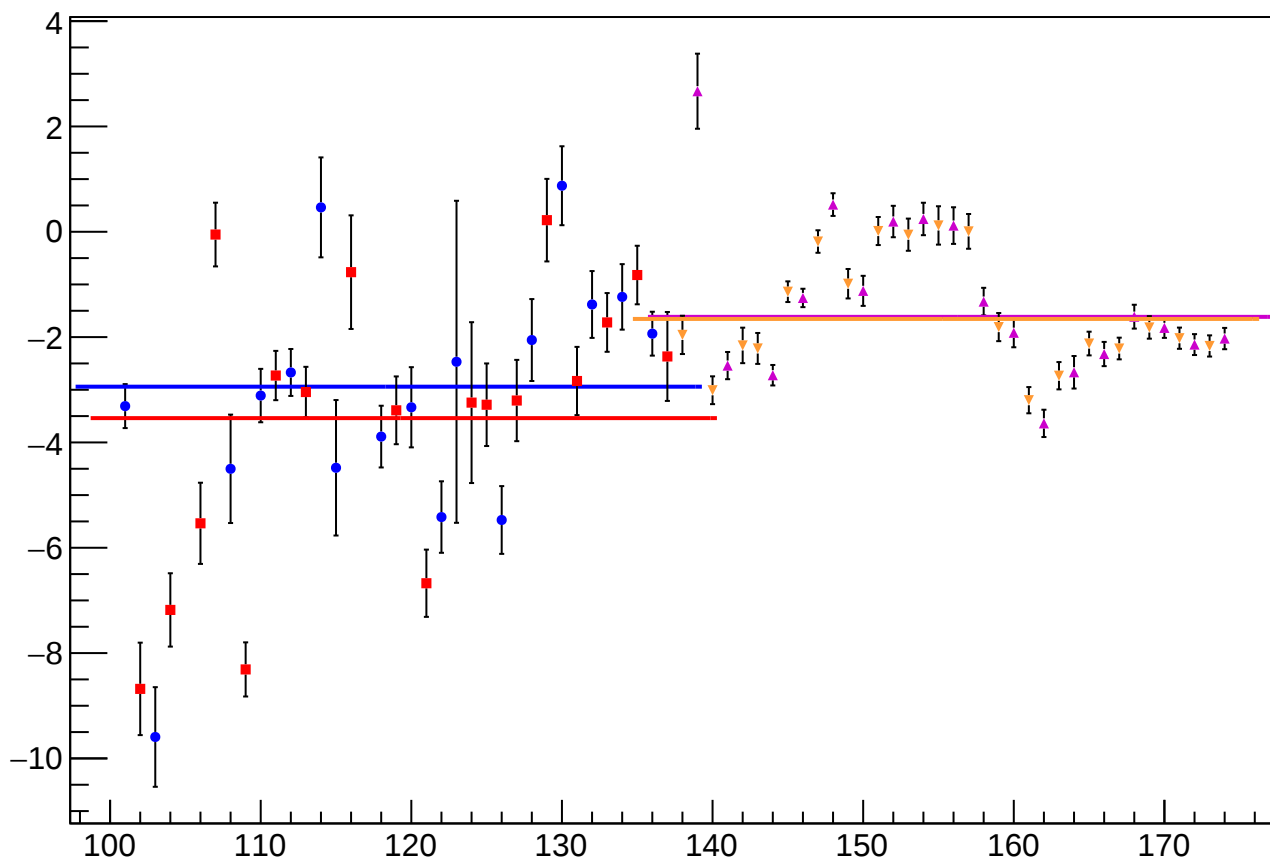
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.288 $\pm$ 0.078  $\chi^2$ /NDF:655.5/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.798 $\pm$ 0.076  $\chi^2$ /NDF:696.4/17

Left: 2.037 $\pm$ 0.054  $\chi^2$ /NDF: 1372.2/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 1.798 $\pm$ 0.076  $\chi^2$ /NDF:696.4/17  
 Out: 2.288 $\pm$ 0.078  $\chi^2$ /NDF:655.5/18  
 All: 2.037 $\pm$ 0.054  $\chi^2$ /NDF: 1372.2/36

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:  $-1.655 \pm 0.057$   $\chi^2/\text{NDF}$ : 286.7/18

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

Left In:  $-1.615 \pm 0.057$   $\chi^2/\text{NDF}$ : 381.4/17

Left:  $-1.635 \pm 0.040$   $\chi^2/\text{NDF}$ : 668.4/36

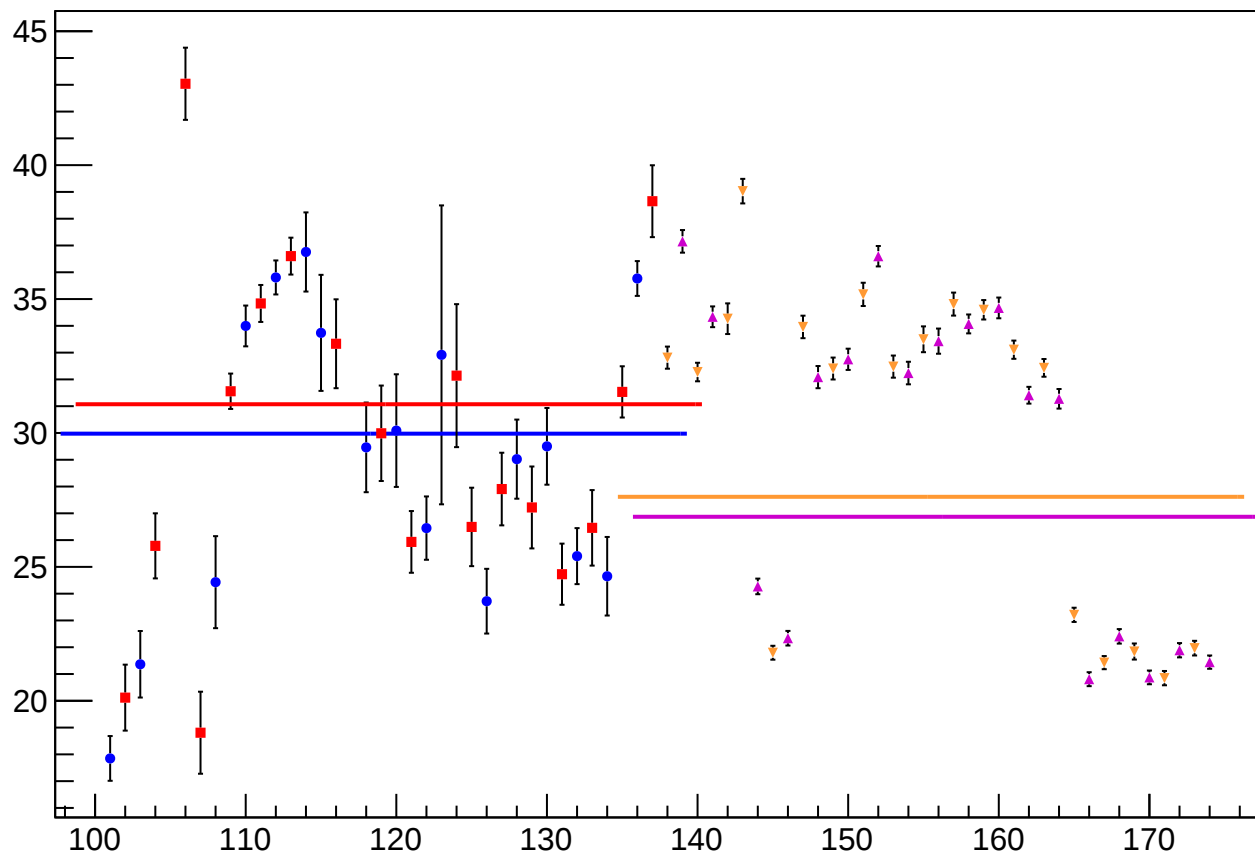
Right:  $-3.239 \pm 0.109$   $\chi^2/\text{NDF}$ : 436.6/34

In:  $-1.774 \pm 0.053$   $\chi^2/\text{NDF}$ : 592.1/34

Out:  $-1.883 \pm 0.054$   $\chi^2/\text{NDF}$ : 700.7/36

All:  $-1.828 \pm 0.038$   $\chi^2/\text{NDF}$ : 1294.8/71

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $29.974 \pm 0.267$   $\chi^2/\text{NDF}$ : 553.9/16

Left Out:  $27.617 \pm 0.078$   $\chi^2/\text{NDF}$ : 6024.3/18

Right Out:  $31.073 \pm 0.260$   $\chi^2/\text{NDF}$ : 453.4/17

Left In:  $26.871 \pm 0.076$   $\chi^2/\text{NDF}$ : 6070.5/17

Left:  $27.234 \pm 0.054$   $\chi^2/\text{NDF}$ : 12141.6/36

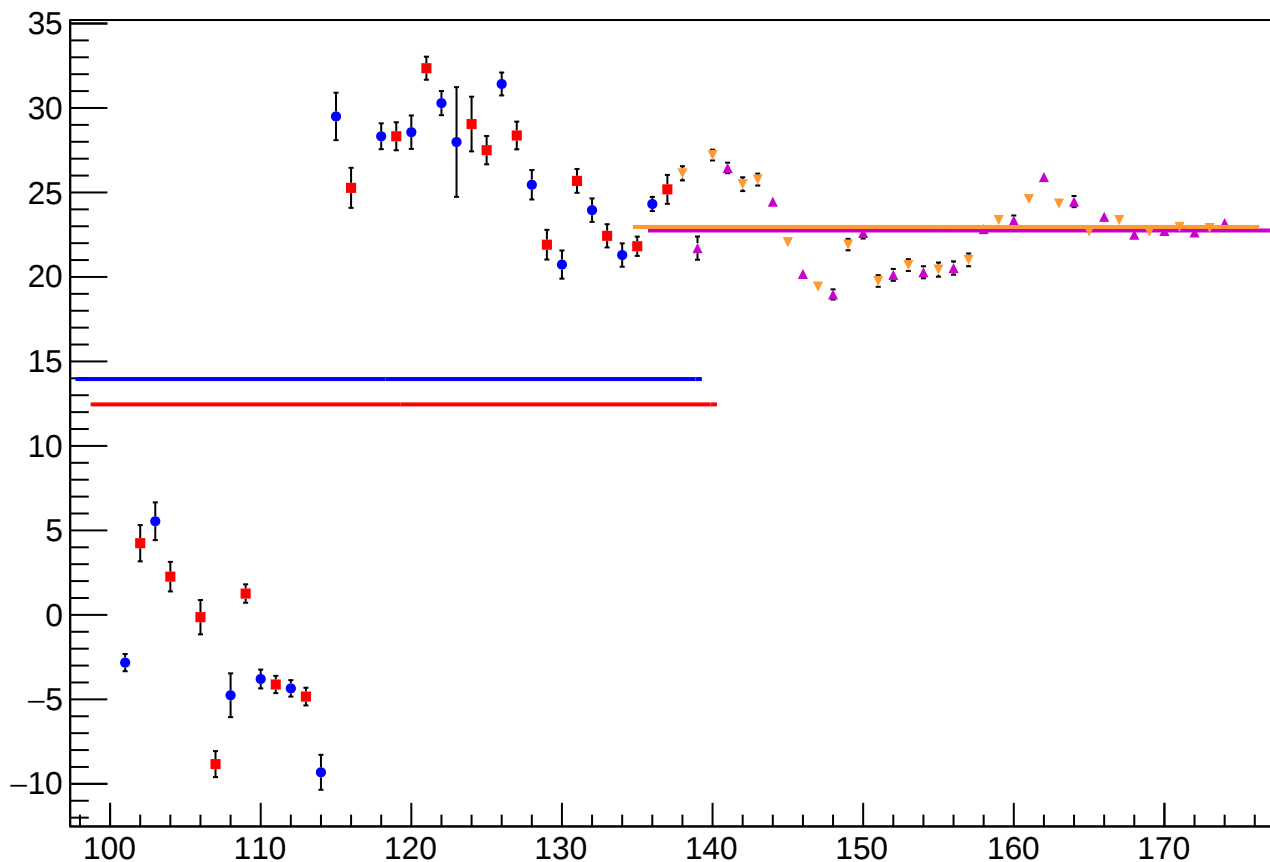
Right:  $30.537 \pm 0.187$   $\chi^2/\text{NDF}$ : 1016.0/34

In:  $27.104 \pm 0.073$   $\chi^2/\text{NDF}$ : 6749.1/34

Out:  $27.902 \pm 0.075$   $\chi^2/\text{NDF}$ : 6639.3/36

All:  $27.494 \pm 0.052$   $\chi^2/\text{NDF}$ : 13446.6/71

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.957 $\pm$ 0.172  $\chi^2$ /NDF: 7348.7/16

Left Out: 22.959 $\pm$ 0.065  $\chi^2$ /NDF: 767.6/18

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

Left In: 22.751 $\pm$ 0.065  $\chi^2$ /NDF: 812.5/17

Left: 22.854 $\pm$ 0.046  $\chi^2$ /NDF: 1585.3/36

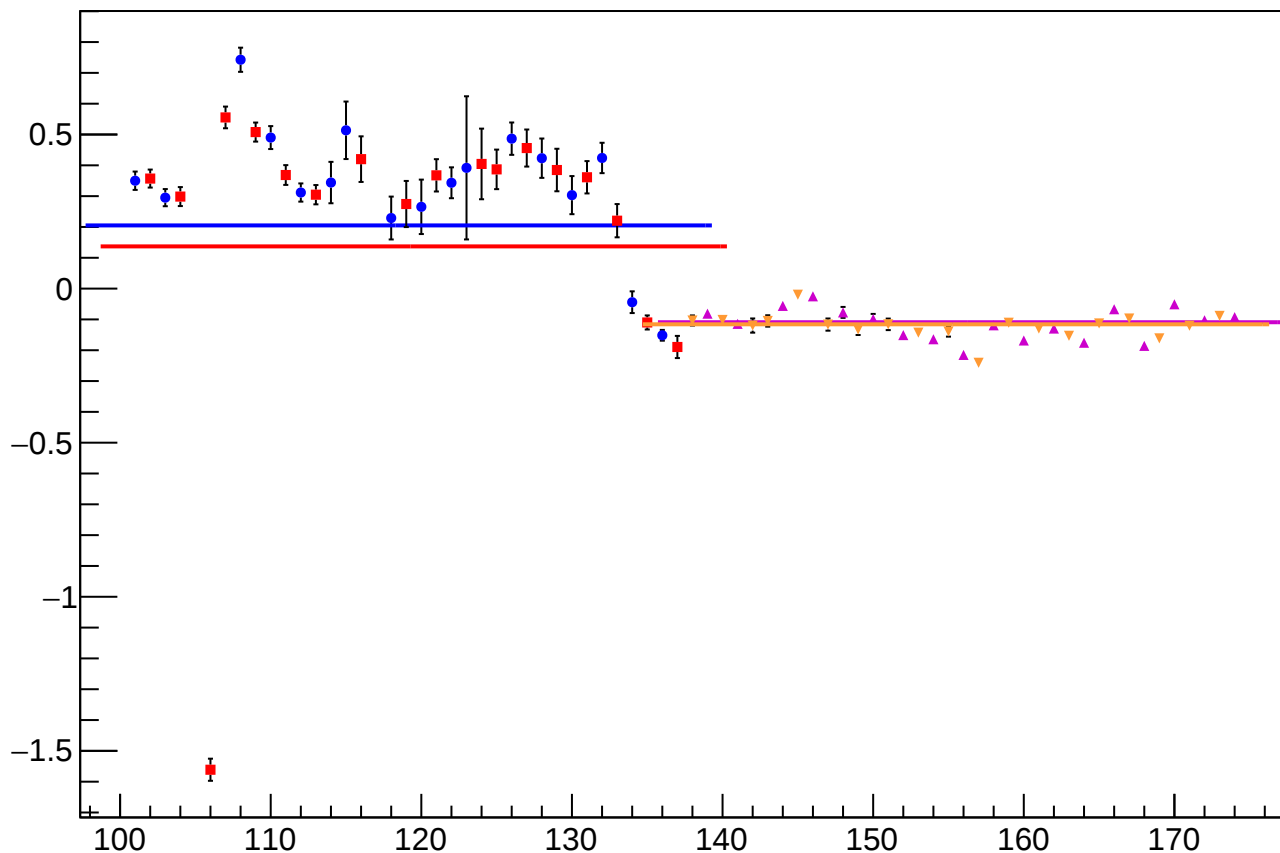
Right: 13.213 $\pm$ 0.122  $\chi^2$ /NDF: 14366.2/34

In: 21.663 $\pm$ 0.061  $\chi^2$ /NDF: 10443.7/34

Out: 21.660 $\pm$ 0.061  $\chi^2$ /NDF: 10949.5/36

All: 21.662 $\pm$ 0.043  $\chi^2$ /NDF: 21393.1/71

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.009$   $\chi^2/\text{NDF}$ : 846.7/16

Left Out:  $-0.116 \pm 0.003$   $\chi^2/\text{NDF}$ : 209.1/18

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}$ : 3007.9/17

Left In:  $-0.109 \pm 0.003$   $\chi^2/\text{NDF}$ : 289.2/17

Left:  $-0.112 \pm 0.002$   $\chi^2/\text{NDF}$ : 500.9/36

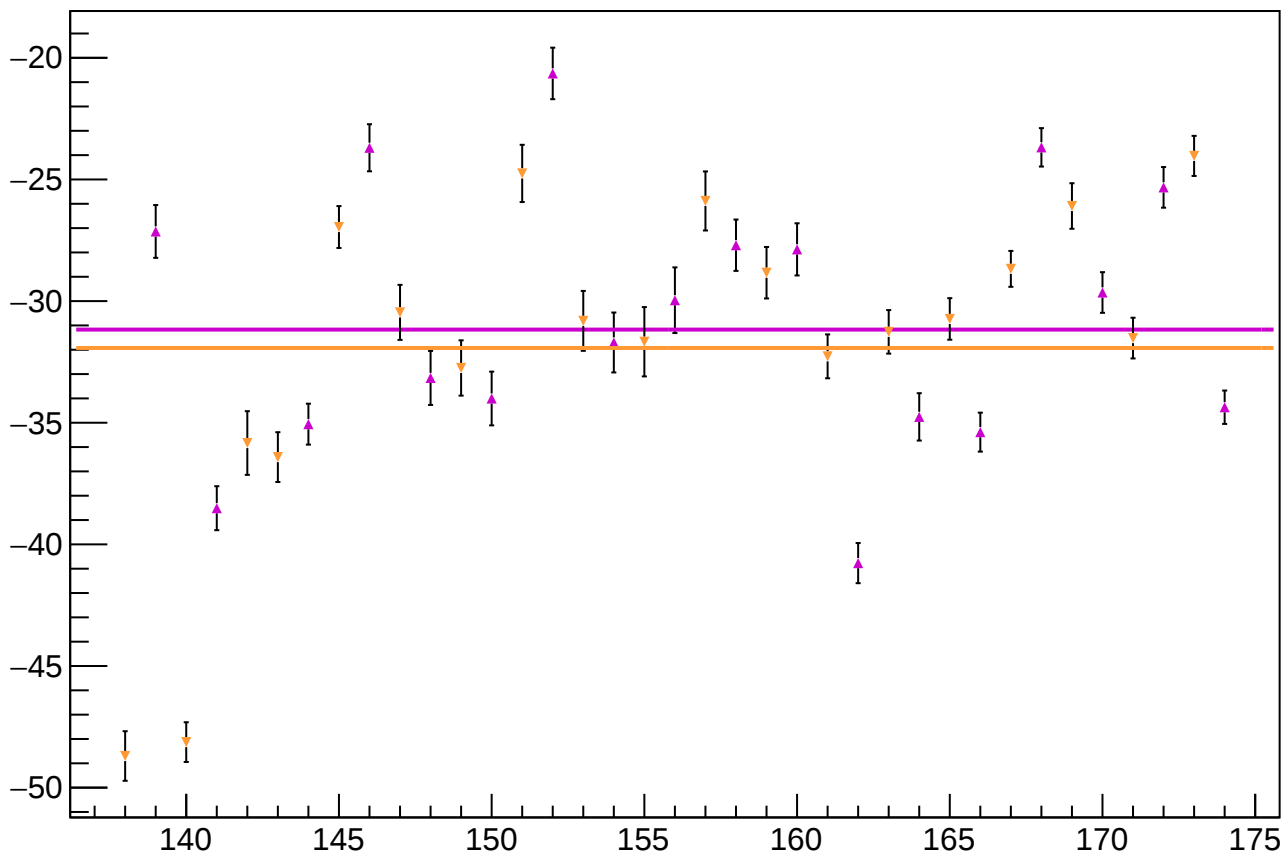
Right:  $0.170 \pm 0.007$   $\chi^2/\text{NDF}$ : 3881.4/34

In:  $-0.081 \pm 0.003$   $\chi^2/\text{NDF}$ : 2158.4/34

Out:  $-0.091 \pm 0.003$   $\chi^2/\text{NDF}$ : 3896.9/36

All:  $-0.086 \pm 0.002$   $\chi^2/\text{NDF}$ : 6062.4/71

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -31.926+/-0.223  $\chi^2/\text{NDF}$ :952.6/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -31.171+/-0.220  $\chi^2/\text{NDF}$ :631.2/17

Left: -31.543+/-0.157  $\chi^2/\text{NDF}$ : 1589.6/36

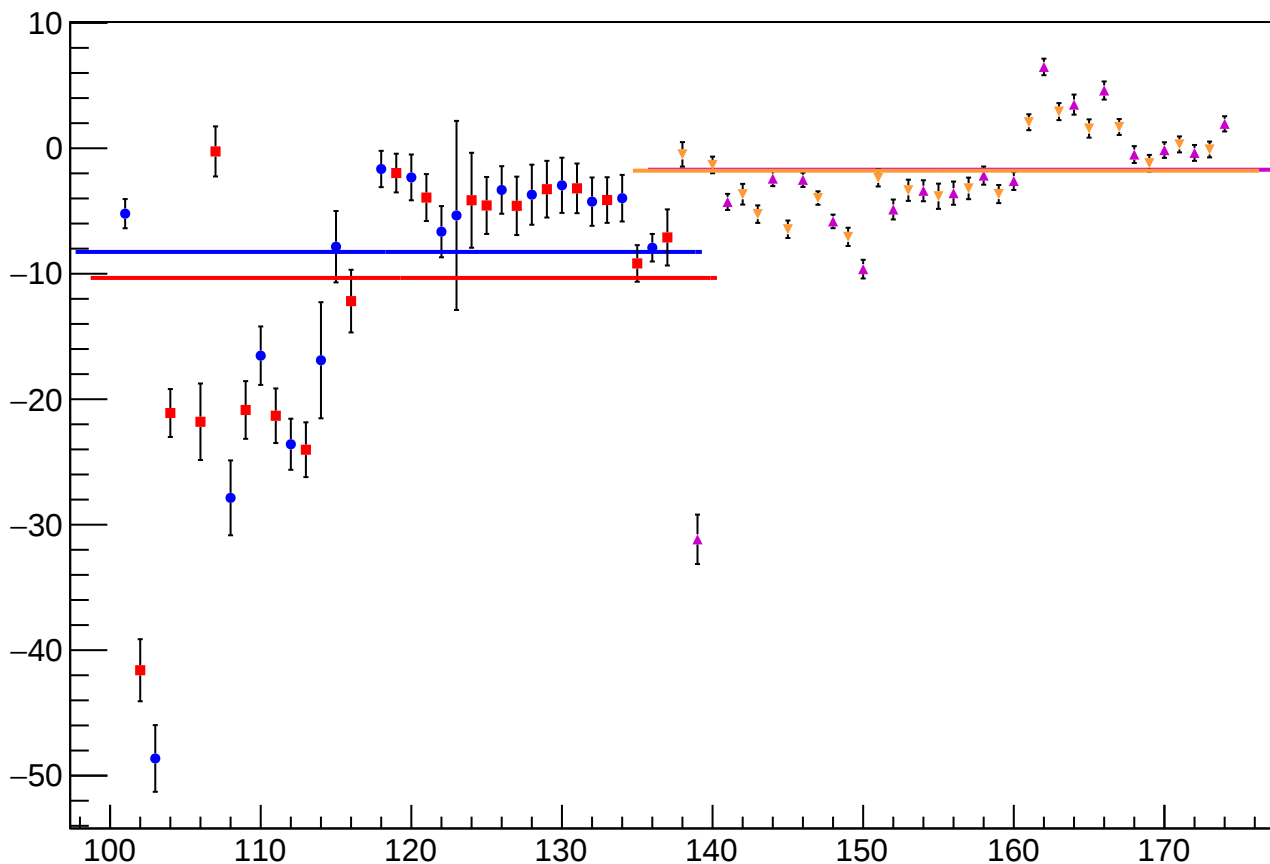
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -31.171+/-0.220  $\chi^2/\text{NDF}$ :631.2/17

Out: -31.926+/-0.223  $\chi^2/\text{NDF}$ :952.6/18

All: -31.543+/-0.157  $\chi^2/\text{NDF}$ : 1589.6/36

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:  $-1.785 \pm 0.162$   $\chi^2/\text{NDF}: 319.3/18$

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}: 410.9/17$

Left In:  $-1.710 \pm 0.163$   $\chi^2/\text{NDF}: 763.9/17$

Left:  $-1.748 \pm 0.115$   $\chi^2/\text{NDF}: 1083.3/36$

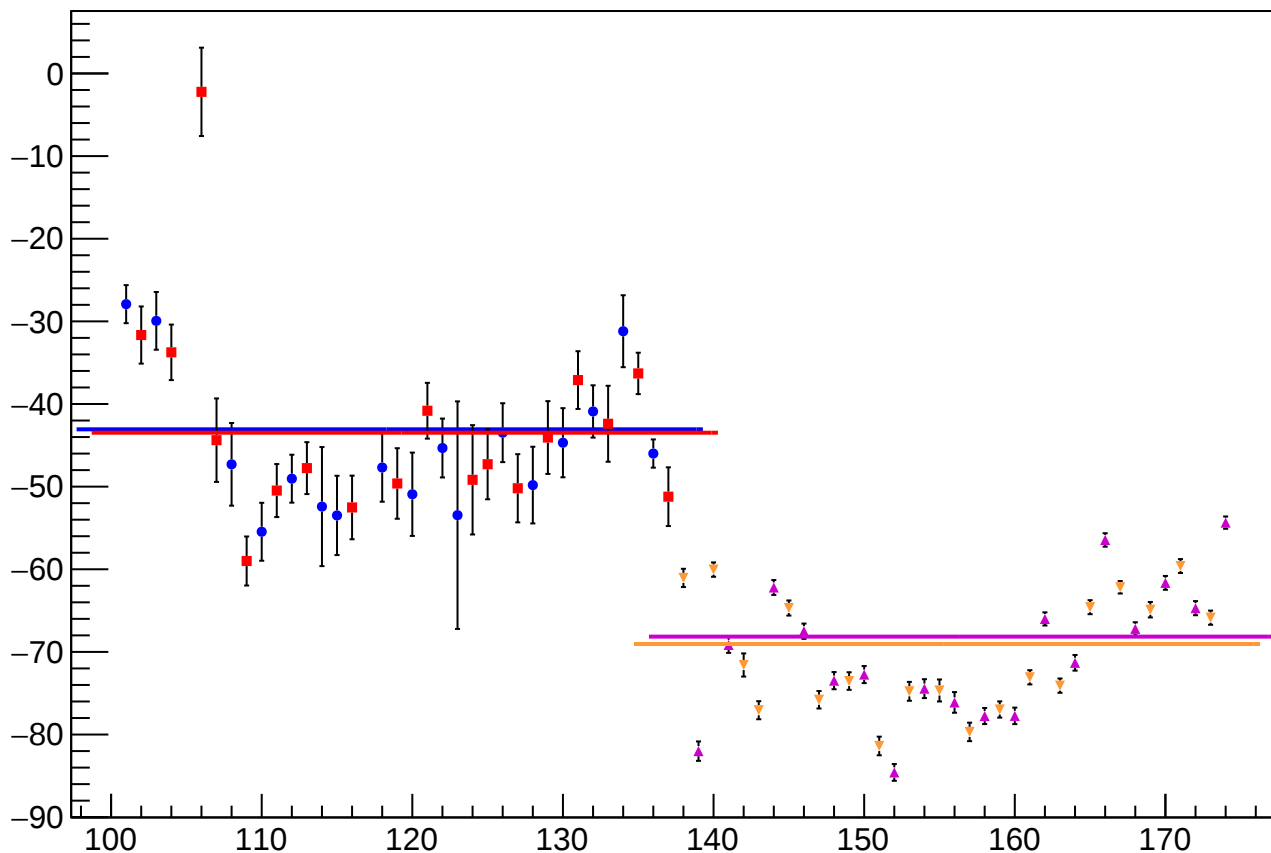
Right:  $-9.235 \pm 0.337$   $\chi^2/\text{NDF}: 832.3/34$

In:  $-2.433 \pm 0.154$   $\chi^2/\text{NDF}: 1354.2/34$

Out:  $-2.620 \pm 0.153$   $\chi^2/\text{NDF}: 1003.6/36$

All:  $-2.526 \pm 0.109$   $\chi^2/\text{NDF}: 2358.6/71$

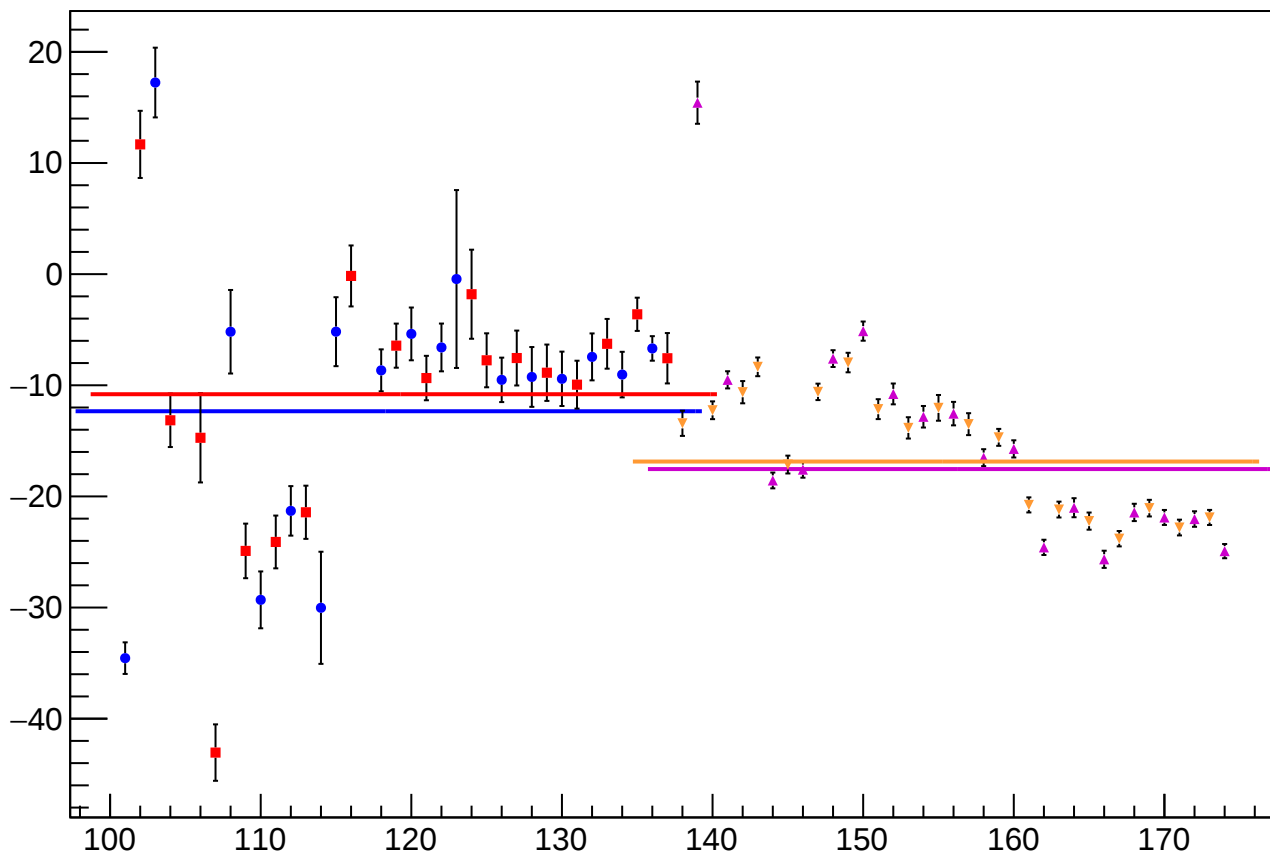
reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-43.064 \pm 0.835$   $\chi^2/\text{NDF}: 99.0/16$   
 Left Out:  $-69.040 \pm 0.223$   $\chi^2/\text{NDF}: 941.8/18$   
 Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$   
 Left In:  $-68.150 \pm 0.219$   $\chi^2/\text{NDF}: 1401.3/17$

Left:  $-68.588 \pm 0.156$   $\chi^2/\text{NDF}: 2351.2/36$   
 Right:  $-43.261 \pm 0.602$   $\chi^2/\text{NDF}: 241.5/34$   
 In:  $-66.539 \pm 0.212$   $\chi^2/\text{NDF}: 2344.4/34$   
 Out:  $-67.464 \pm 0.216$   $\chi^2/\text{NDF}: 1896.8/36$   
 All:  $-66.993 \pm 0.151$   $\chi^2/\text{NDF}: 4250.6/71$

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:  $-16.862 \pm 0.185$   $\chi^2/\text{NDF}$ : 808.3/18

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

Left In:  $-17.540 \pm 0.186$   $\chi^2/\text{NDF}$ : 1370.0/17

Left:  $-17.200 \pm 0.131$   $\chi^2/\text{NDF}$ : 2185.0/36

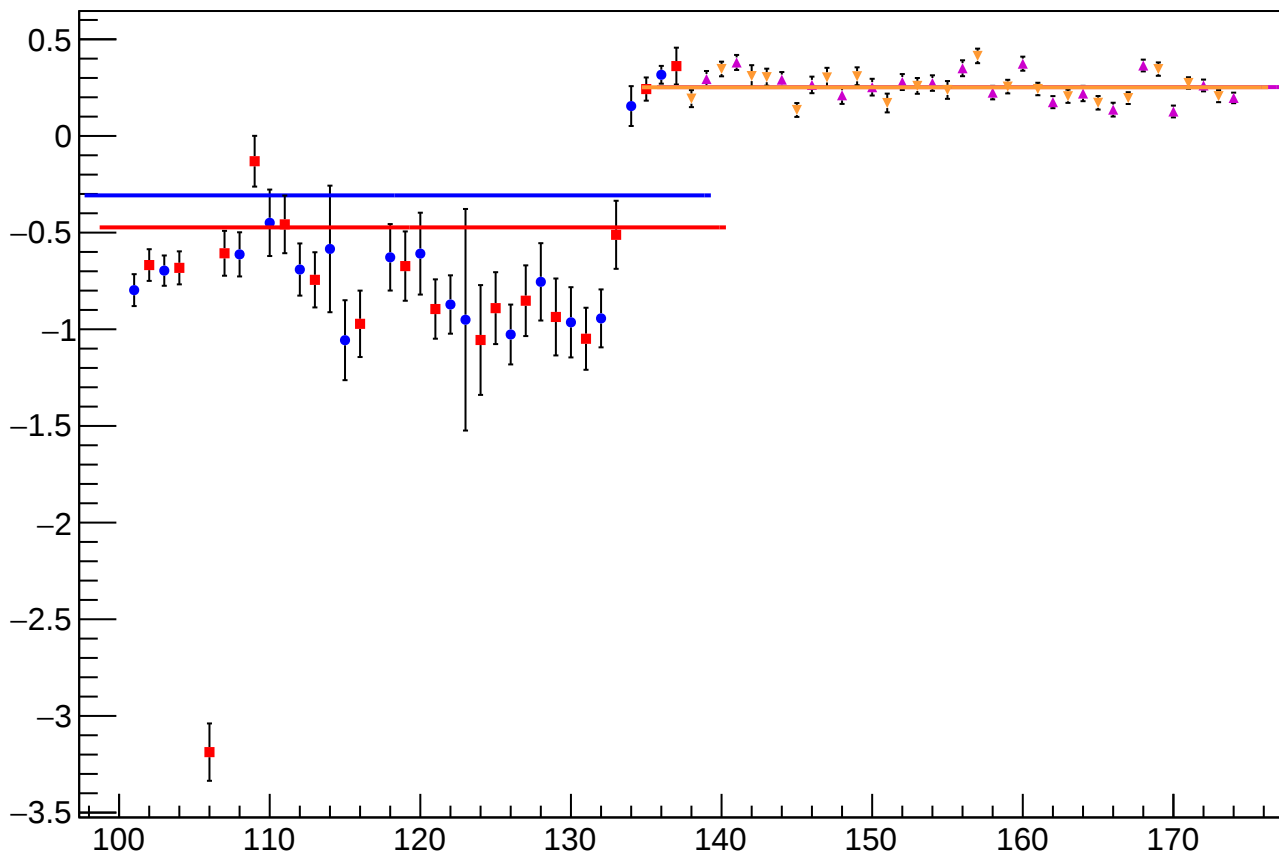
Right:  $-11.618 \pm 0.379$   $\chi^2/\text{NDF}$ : 840.6/34

In:  $-16.950 \pm 0.175$   $\chi^2/\text{NDF}$ : 1933.8/34

Out:  $-16.252 \pm 0.176$   $\chi^2/\text{NDF}$ : 1277.3/36

All:  $-16.602 \pm 0.124$   $\chi^2/\text{NDF}$ : 3219.1/71

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:  $0.252 \pm 0.009$   $\chi^2/\text{NDF}$ : 65.9/18

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

Left In:  $0.253 \pm 0.008$   $\chi^2/\text{NDF}$ : 84.0/17

Left:  $0.252 \pm 0.006$   $\chi^2/\text{NDF}$ : 149.9/36

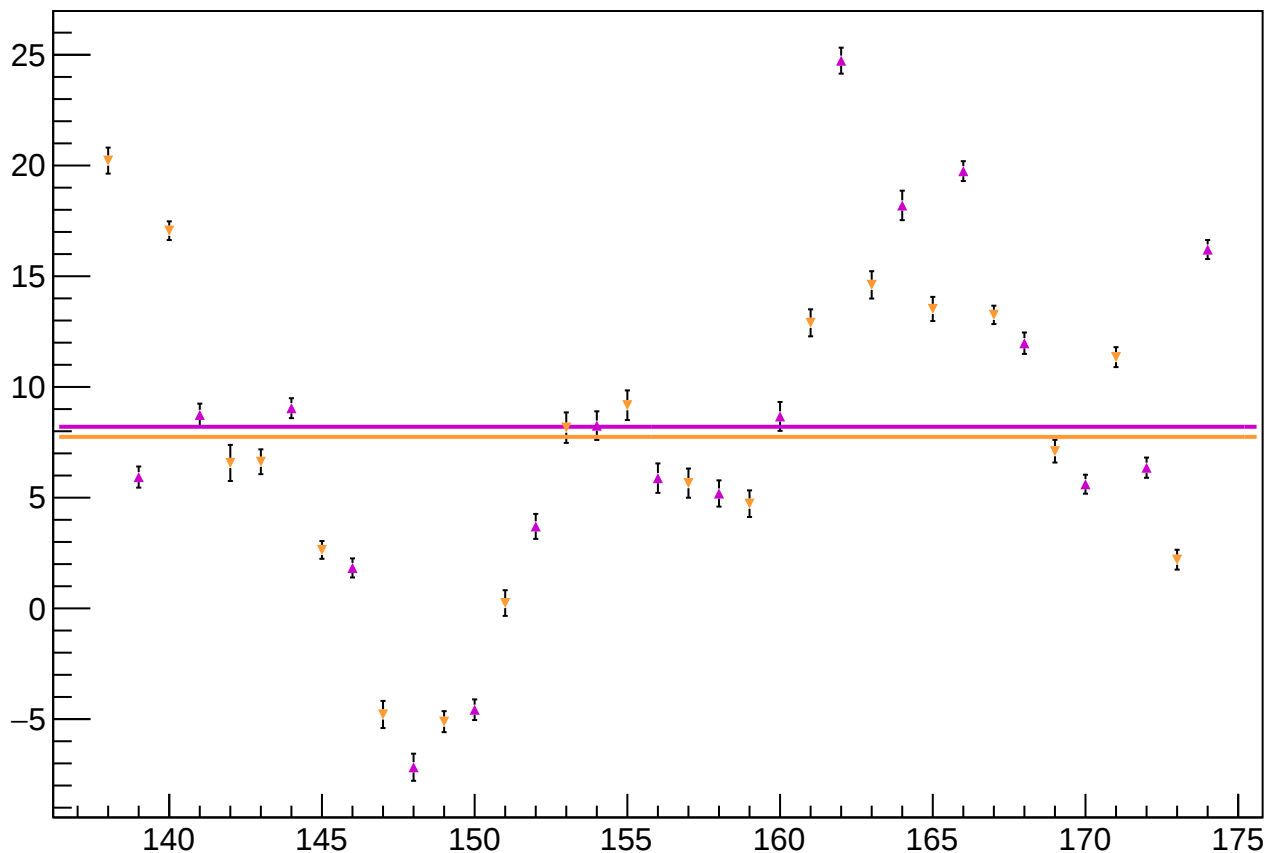
Right:  $-0.387 \pm 0.020$   $\chi^2/\text{NDF}$ : 1016.1/34

In:  $0.204 \pm 0.008$   $\chi^2/\text{NDF}$ : 834.1/34

Out:  $0.191 \pm 0.008$   $\chi^2/\text{NDF}$ : 1280.1/36

All:  $0.198 \pm 0.006$   $\chi^2/\text{NDF}$ : 2115.4/71

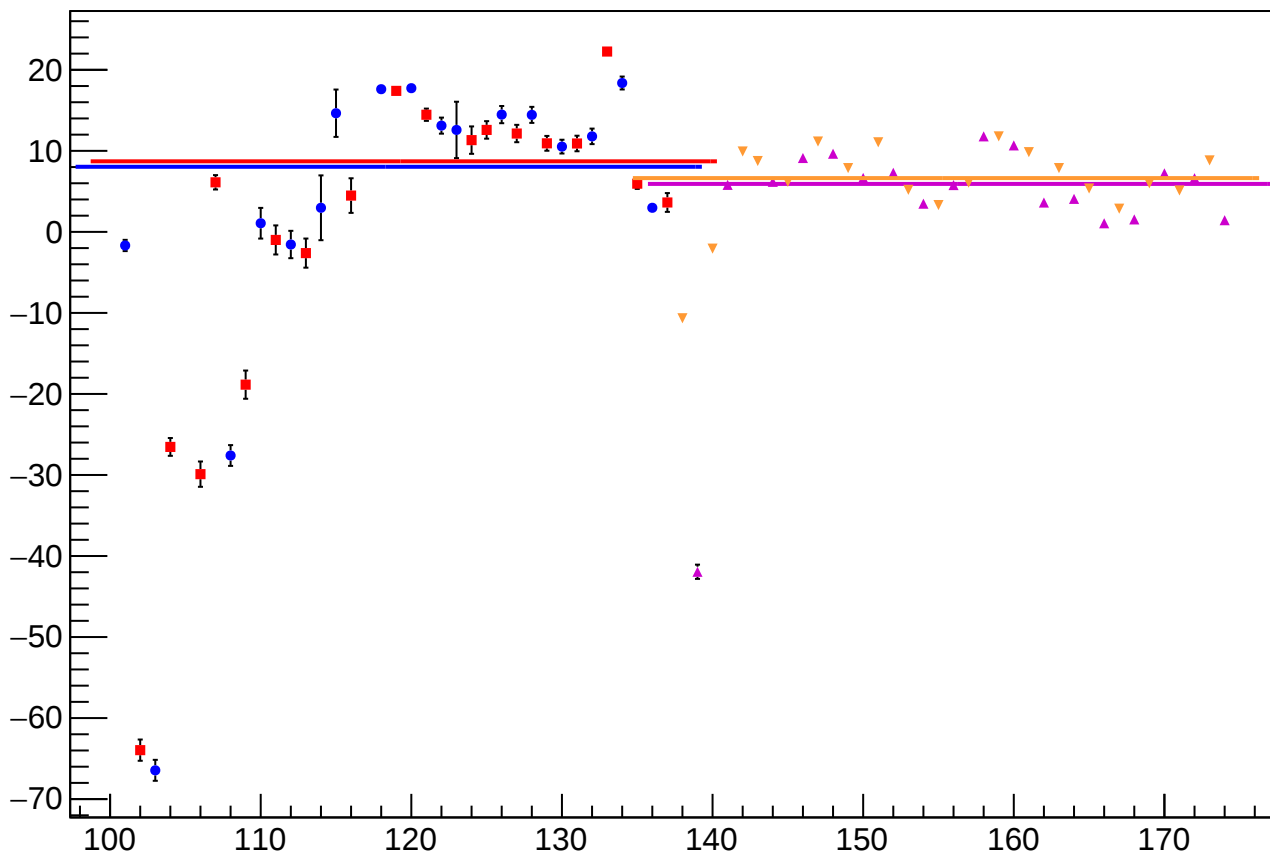
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.745 $\pm$ 0.122  $\chi^2/\text{NDF}$ :3170.0/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.202 $\pm$ 0.120  $\chi^2/\text{NDF}$ :3875.1/17

Left: 7.977 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 7052.2/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 8.202 $\pm$ 0.120  $\chi^2/\text{NDF}$ :3875.1/17  
 Out: 7.745 $\pm$ 0.122  $\chi^2/\text{NDF}$ :3170.0/18  
 All: 7.977 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 7052.2/36

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:  $6.638 \pm 0.089$   $\chi^2/\text{NDF}: 2411.2/18$

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}: 6290.2/17$

Left In:  $5.920 \pm 0.090$   $\chi^2/\text{NDF}: 4074.6/17$

Left:  $6.284 \pm 0.063$   $\chi^2/\text{NDF}: 6518.2/36$

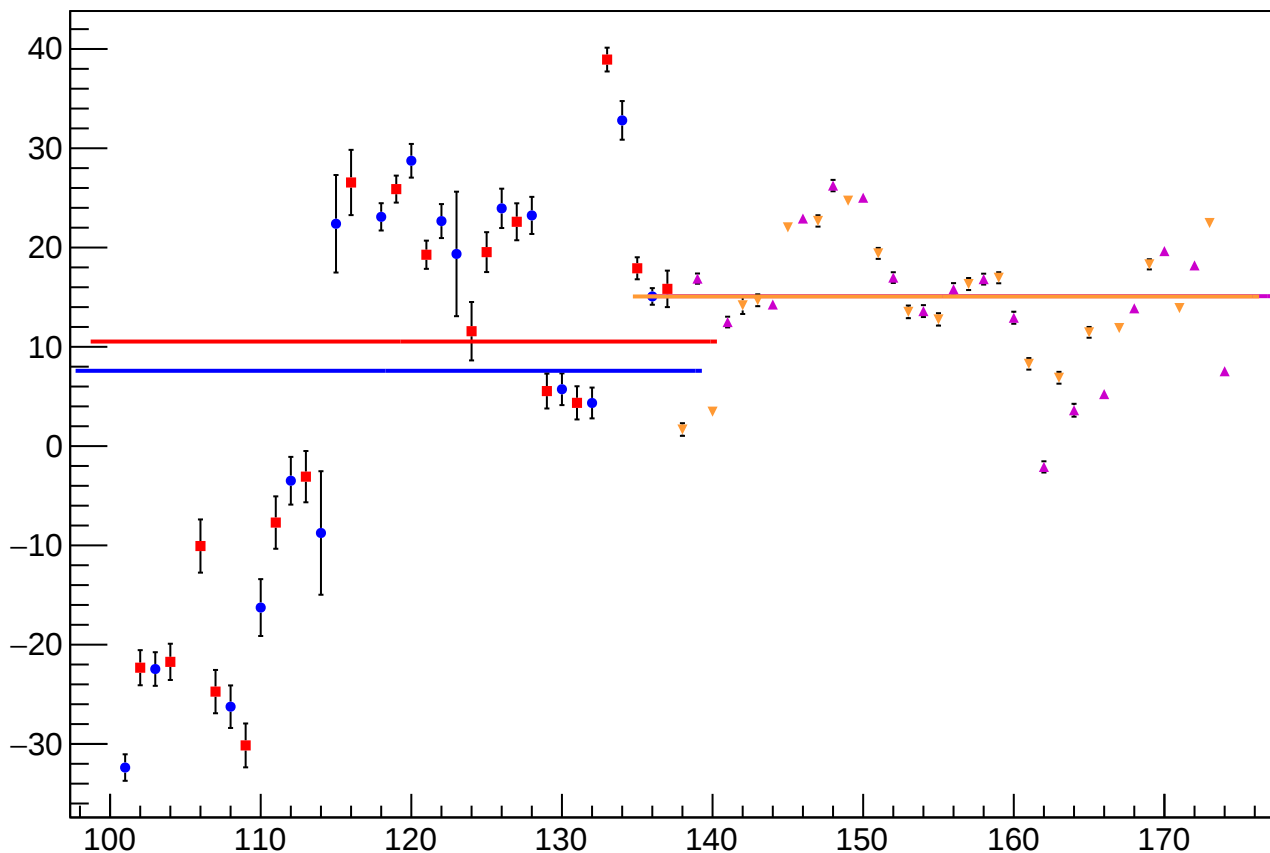
Right:  $8.375 \pm 0.151$   $\chi^2/\text{NDF}: 11665.4/34$

In:  $6.233 \pm 0.083$   $\chi^2/\text{NDF}: 9527.1/34$

Out:  $6.942 \pm 0.082$   $\chi^2/\text{NDF}: 8781.8/36$

All:  $6.593 \pm 0.058$   $\chi^2/\text{NDF}: 18346.0/71$

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:  $15.072 \pm 0.122$   $\chi^2/\text{NDF}: 2850.0/18$

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}: 2279.5/17$

Left In:  $15.102 \pm 0.120$   $\chi^2/\text{NDF}: 3463.8/17$

Left:  $15.087 \pm 0.085$   $\chi^2/\text{NDF}: 6313.8/36$

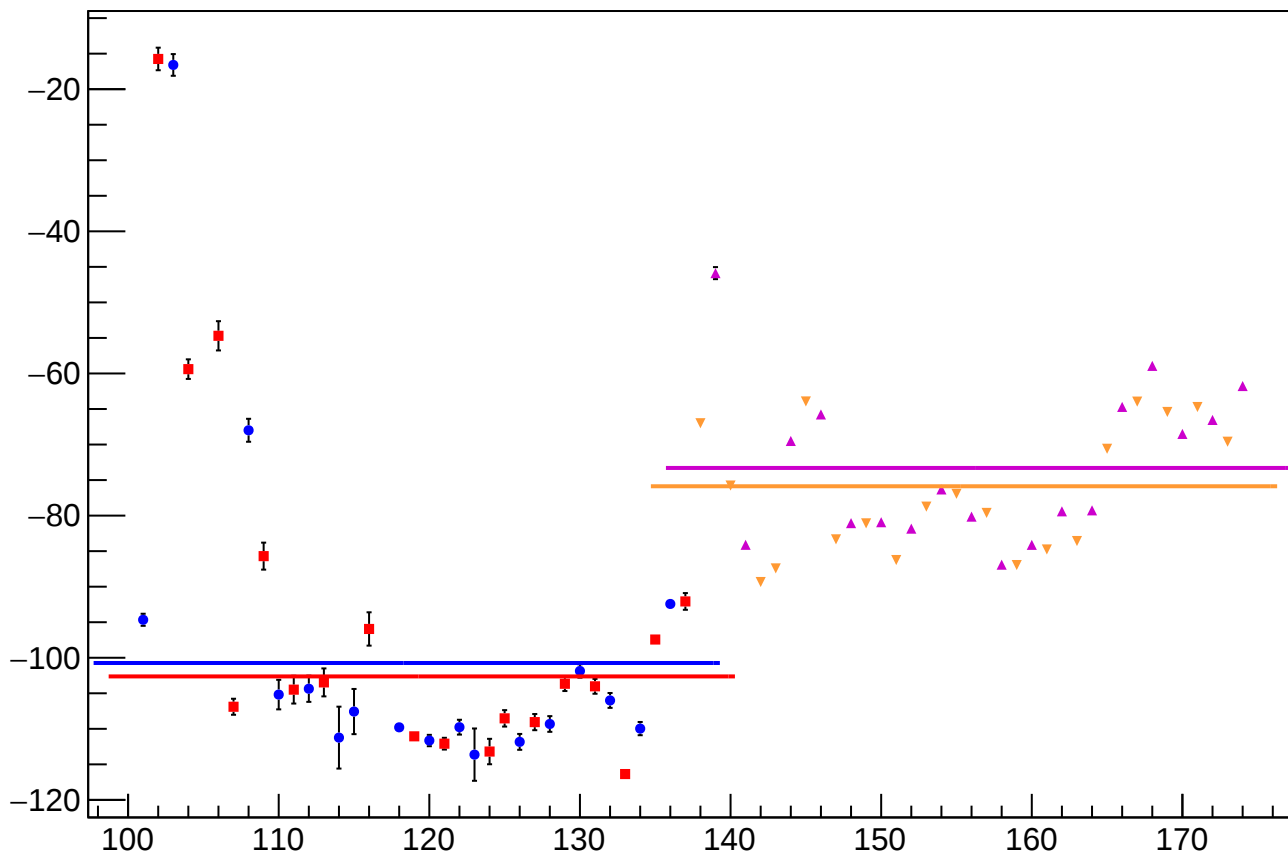
Right:  $9.054 \pm 0.295$   $\chi^2/\text{NDF}: 4627.2/34$

In:  $14.527 \pm 0.115$   $\chi^2/\text{NDF}: 6087.7/34$

Out:  $14.716 \pm 0.117$   $\chi^2/\text{NDF}: 5238.4/36$

All:  $14.620 \pm 0.082$   $\chi^2/\text{NDF}: 11327.4/71$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-100.736 \pm 0.248$   $\chi^2/\text{NDF}: 4520.6/16$

Left Out:  $-75.871 \pm 0.102$   $\chi^2/\text{NDF}: 7549.0/18$

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}: 5716.3/17$

Left In:  $-73.293 \pm 0.103$   $\chi^2/\text{NDF}: 7940.4/17$

Left:  $-74.591 \pm 0.072$   $\chi^2/\text{NDF}: 15806.3/36$

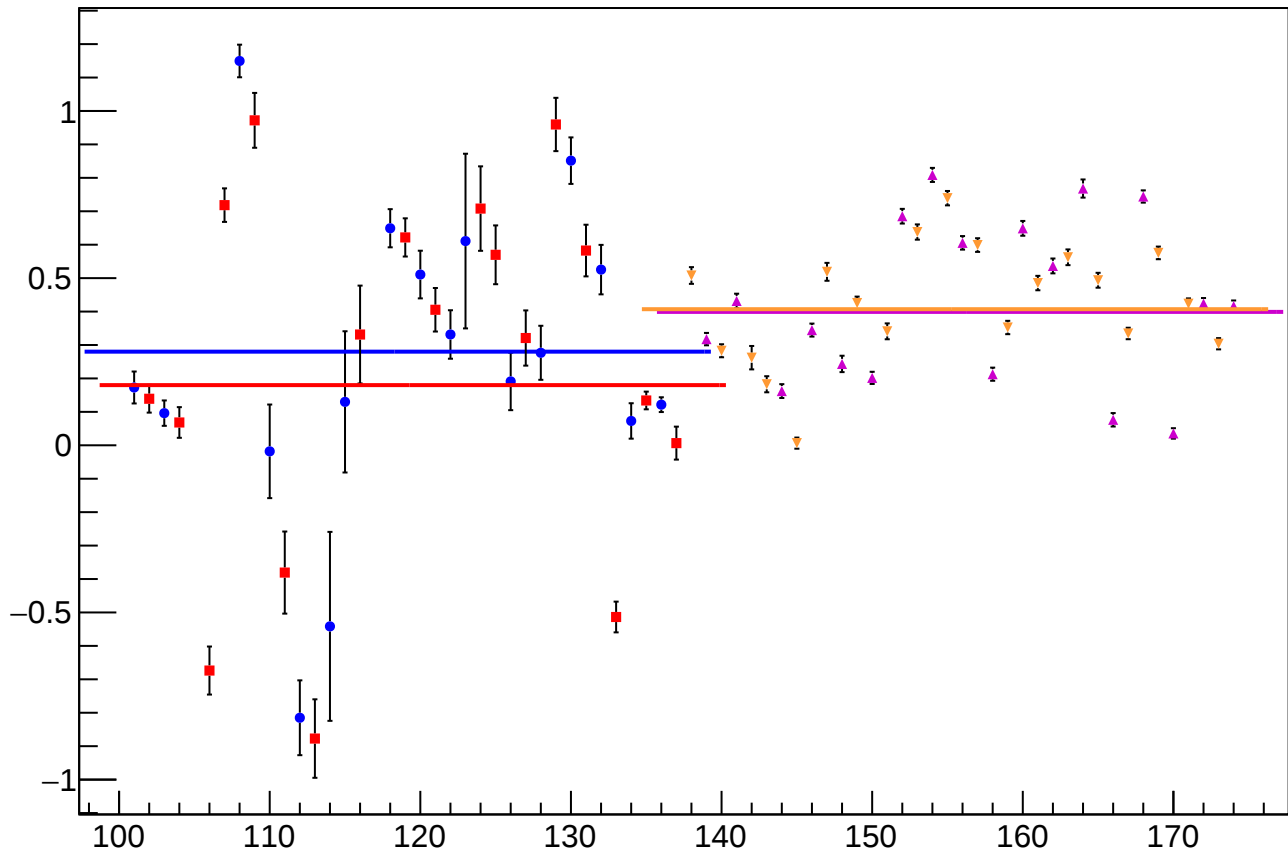
Right:  $-101.689 \pm 0.175$   $\chi^2/\text{NDF}: 10266.1/34$

In:  $-77.306 \pm 0.095$   $\chi^2/\text{NDF}: 22889.4/34$

Out:  $-79.795 \pm 0.094$   $\chi^2/\text{NDF}: 23349.7/36$

All:  $-78.560 \pm 0.067$   $\chi^2/\text{NDF}: 46585.0/71$

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:  $0.407 \pm 0.005$   $\chi^2/\text{NDF}$ : 1408.1/18

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

Left In:  $0.399 \pm 0.005$   $\chi^2/\text{NDF}$ : 2564.9/17

Left:  $0.403 \pm 0.003$   $\chi^2/\text{NDF}$ : 3974.5/36

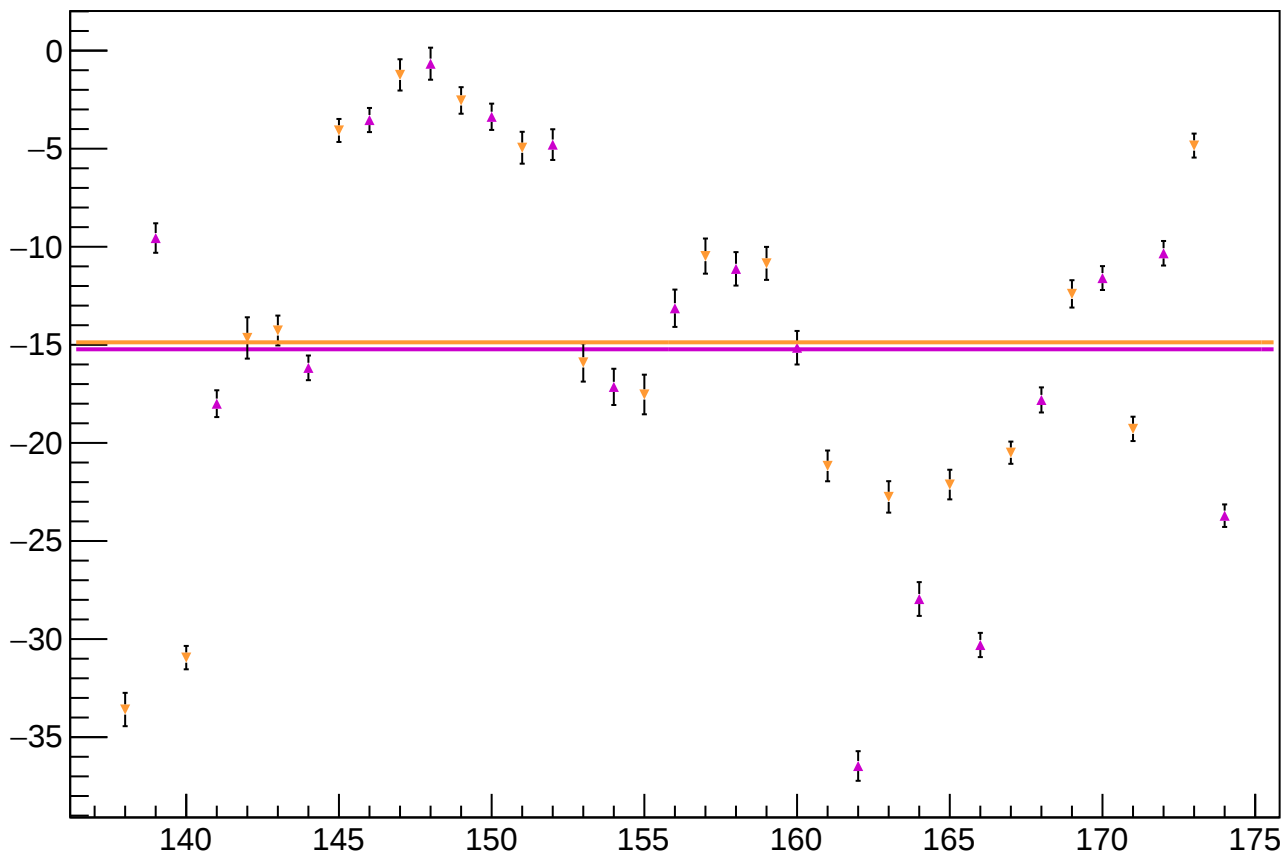
Right:  $0.230 \pm 0.010$   $\chi^2/\text{NDF}$ : 1621.0/34

In:  $0.386 \pm 0.004$   $\chi^2/\text{NDF}$ : 3290.9/34

Out:  $0.382 \pm 0.004$   $\chi^2/\text{NDF}$ : 2597.9/36

All:  $0.384 \pm 0.003$   $\chi^2/\text{NDF}$ : 5889.2/71

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



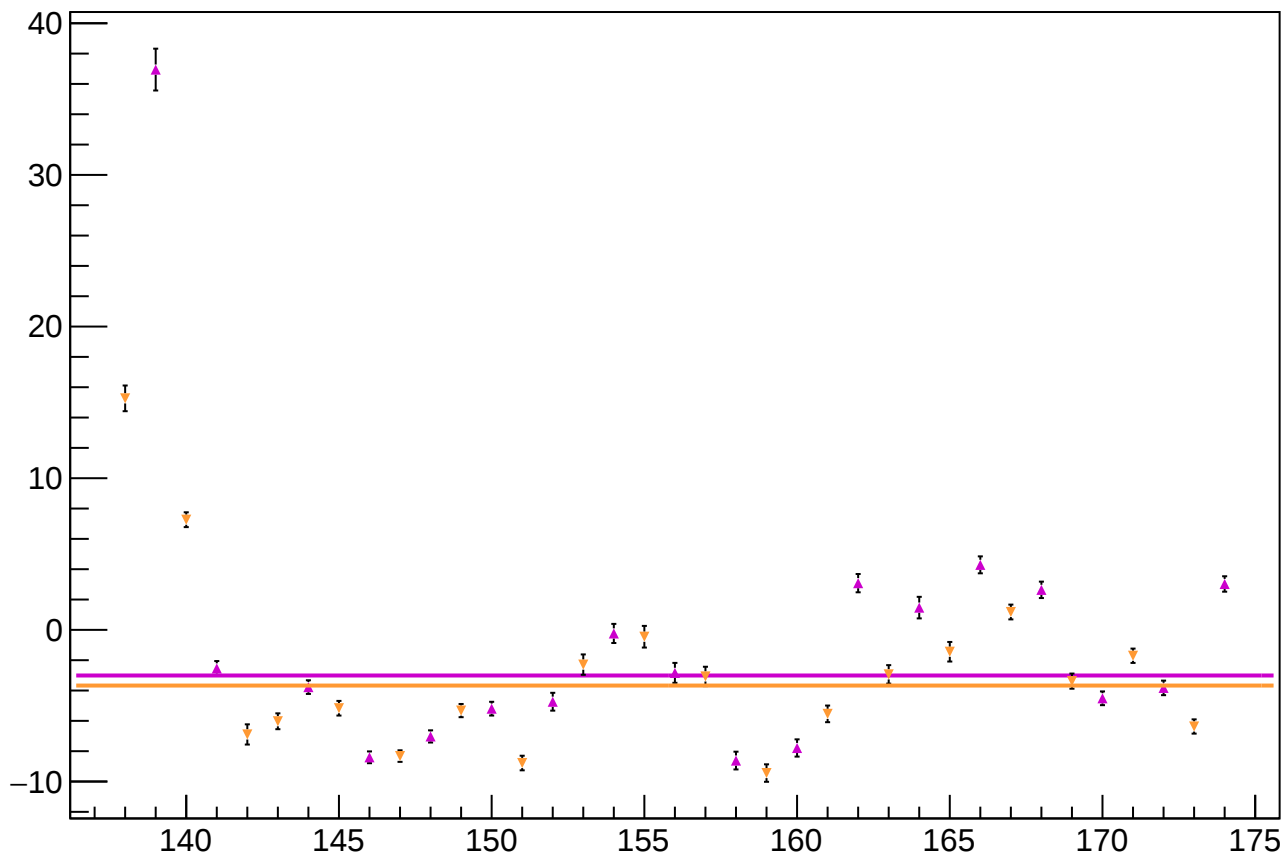
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -14.872+/-0.169  $\chi^2/\text{NDF}$ :3065.2/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -15.228+/-0.167  $\chi^2/\text{NDF}$ :3213.7/17

Left: -15.052+/-0.119  $\chi^2/\text{NDF}$ : 6281.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.228+/-0.167  $\chi^2/\text{NDF}$ :3213.7/17  
 Out: -14.872+/-0.169  $\chi^2/\text{NDF}$ :3065.2/18

All: -15.052+/-0.119  $\chi^2/\text{NDF}$ : 6281.2/36

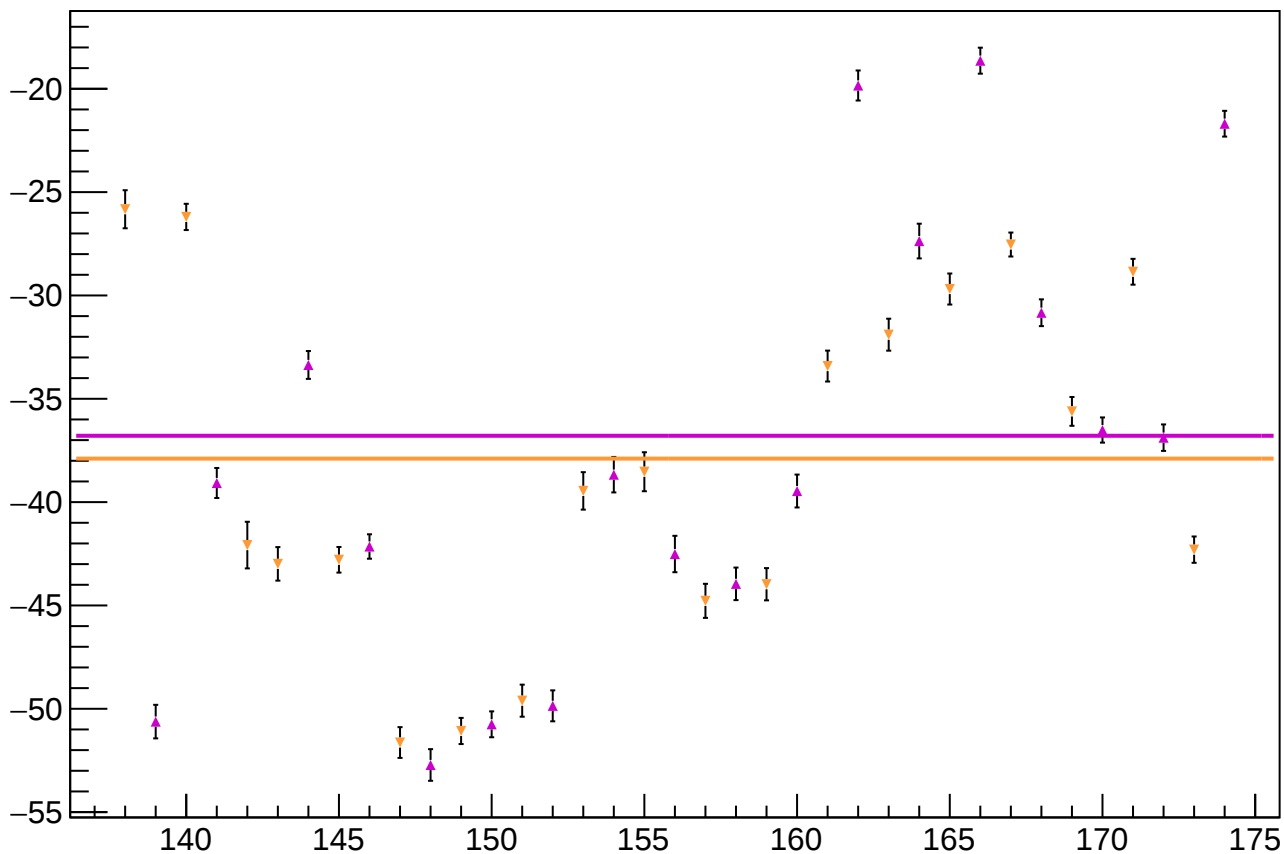
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.672+/-0.122  $\chi^2/\text{NDF}$ :1629.5/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.009+/-0.124  $\chi^2/\text{NDF}$ :1924.4/17

Left: -3.345+/-0.087  $\chi^2/\text{NDF}$ : 3568.5/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.009+/-0.124  $\chi^2/\text{NDF}$ :1924.4/17  
 Out: -3.672+/-0.122  $\chi^2/\text{NDF}$ :1629.5/18  
 All: -3.345+/-0.087  $\chi^2/\text{NDF}$ : 3568.5/36

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -37.894 $\pm$ 0.168  $\chi^2/\text{NDF}$ :2564.7/18

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -36.789 $\pm$ 0.166  $\chi^2/\text{NDF}$ :3955.4/17

Left: -37.334 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 6541.9/36

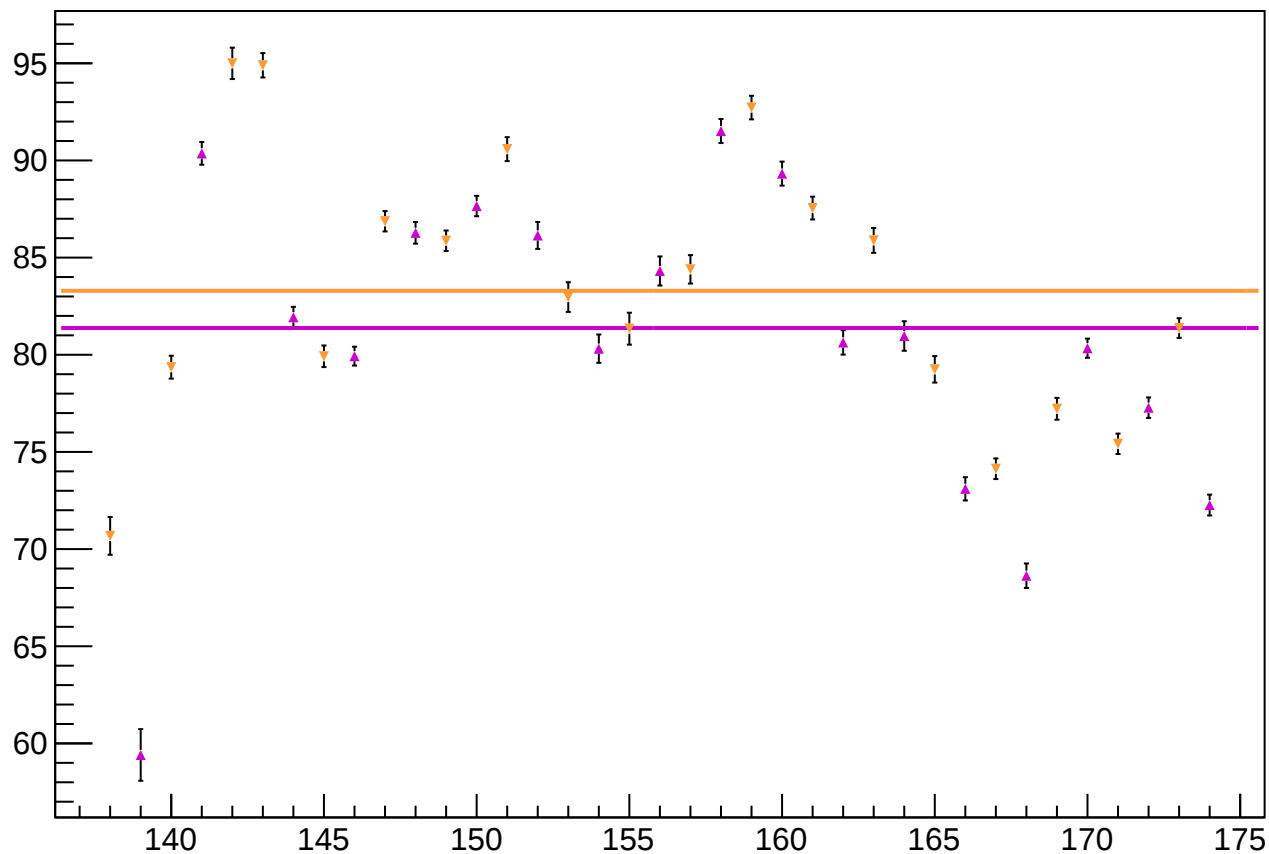
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -36.789 $\pm$ 0.166  $\chi^2/\text{NDF}$ :3955.4/17

Out: -37.894 $\pm$ 0.168  $\chi^2/\text{NDF}$ :2564.7/18

All: -37.334 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 6541.9/36

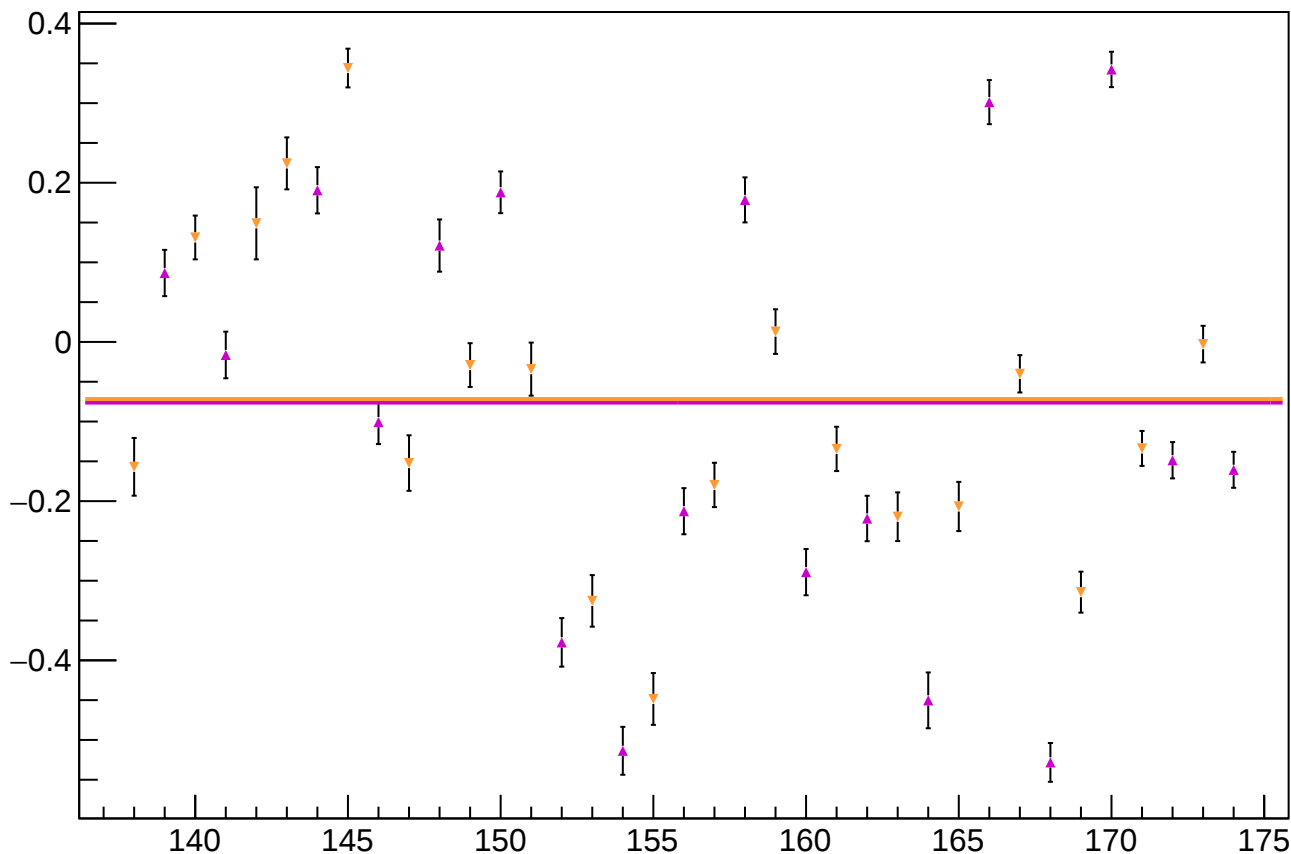
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 83.291 $\pm$ 0.140  $\chi^2/\text{NDF}$ :2019.7/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 81.377 $\pm$ 0.142  $\chi^2/\text{NDF}$ :2195.3/17

Left: 82.342 $\pm$ 0.100  $\chi^2/\text{NDF}$ : 4307.2/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 81.377 $\pm$ 0.142  $\chi^2/\text{NDF}$ :2195.3/17  
 Out: 83.291 $\pm$ 0.140  $\chi^2/\text{NDF}$ :2019.7/18  
 All: 82.342 $\pm$ 0.100  $\chi^2/\text{NDF}$ : 4307.2/36

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.072+/-0.007  $\chi^2/\text{NDF}$ :841.5/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.076+/-0.006  $\chi^2/\text{NDF}$ :1772.6/17

Left: -0.074+/-0.005  $\chi^2/\text{NDF}$ : 2614.4/36

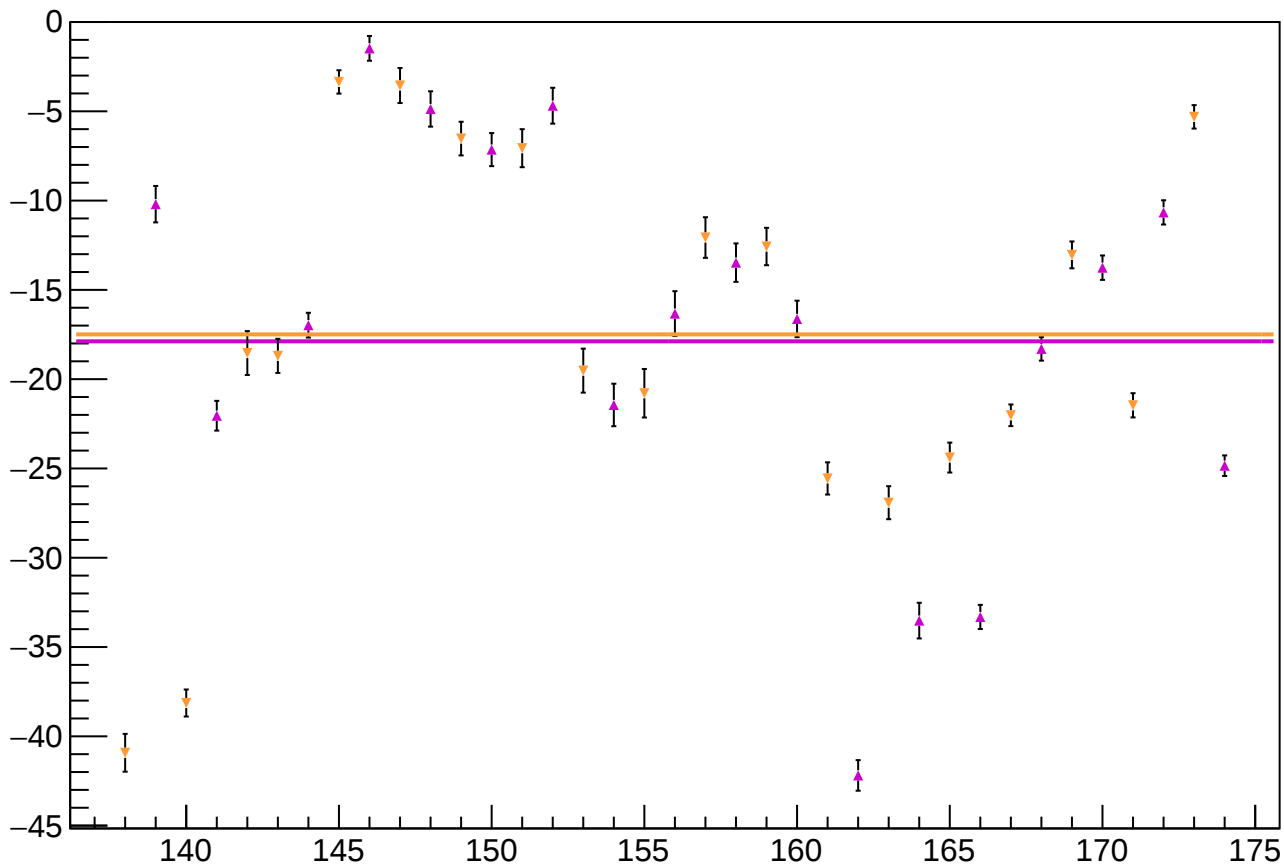
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.076+/-0.006  $\chi^2/\text{NDF}$ :1772.6/17

Out: -0.072+/-0.007  $\chi^2/\text{NDF}$ :841.5/18

All: -0.074+/-0.005  $\chi^2/\text{NDF}$ : 2614.4/36

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: -17.492+/-0.198  $\chi^2/\text{NDF}$ :2909.5/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -17.881+/-0.192  $\chi^2/\text{NDF}$ :3018.8/17

Left: -17.692+/-0.138  $\chi^2/\text{NDF}$ : 5930.3/36

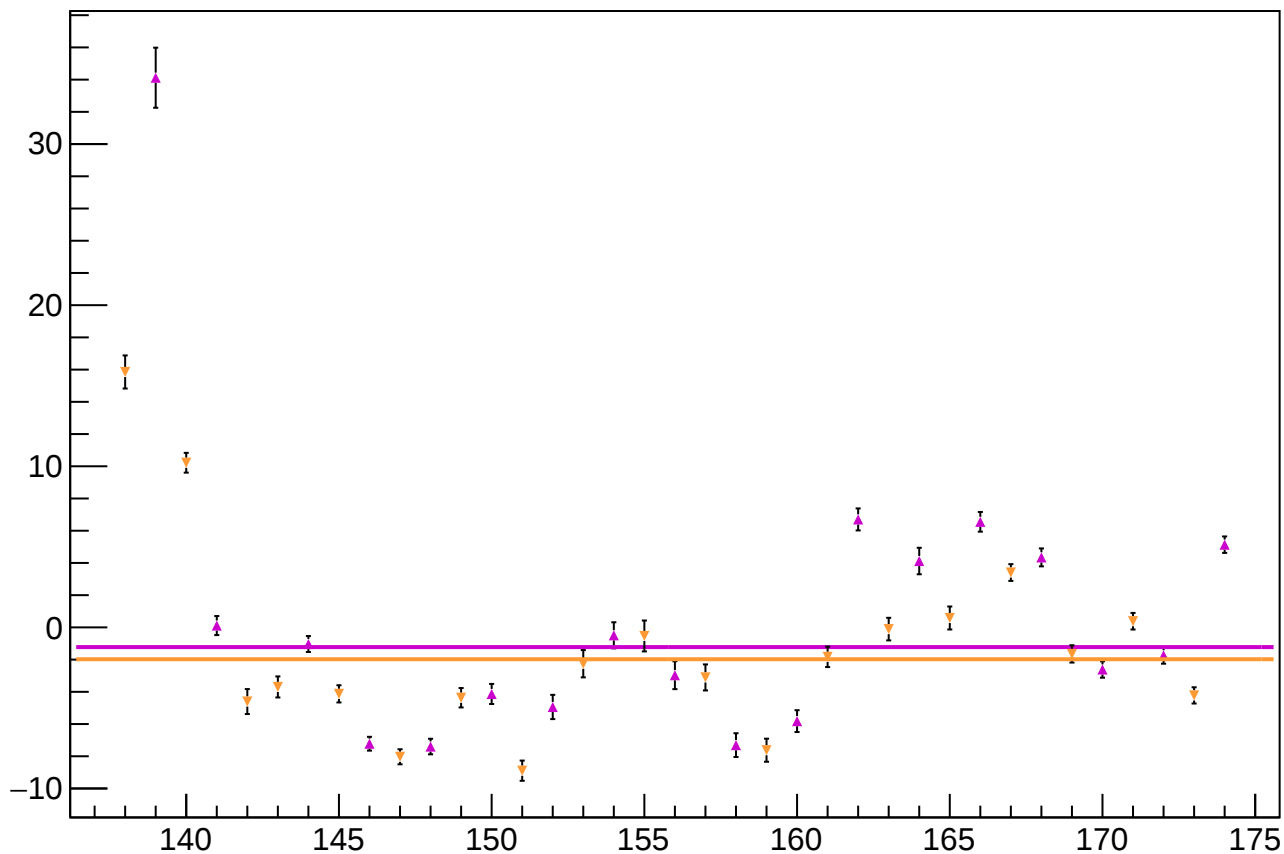
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.881+/-0.192  $\chi^2/\text{NDF}$ :3018.8/17

Out: -17.492+/-0.198  $\chi^2/\text{NDF}$ :2909.5/18

All: -17.692+/-0.138  $\chi^2/\text{NDF}$ : 5930.3/36

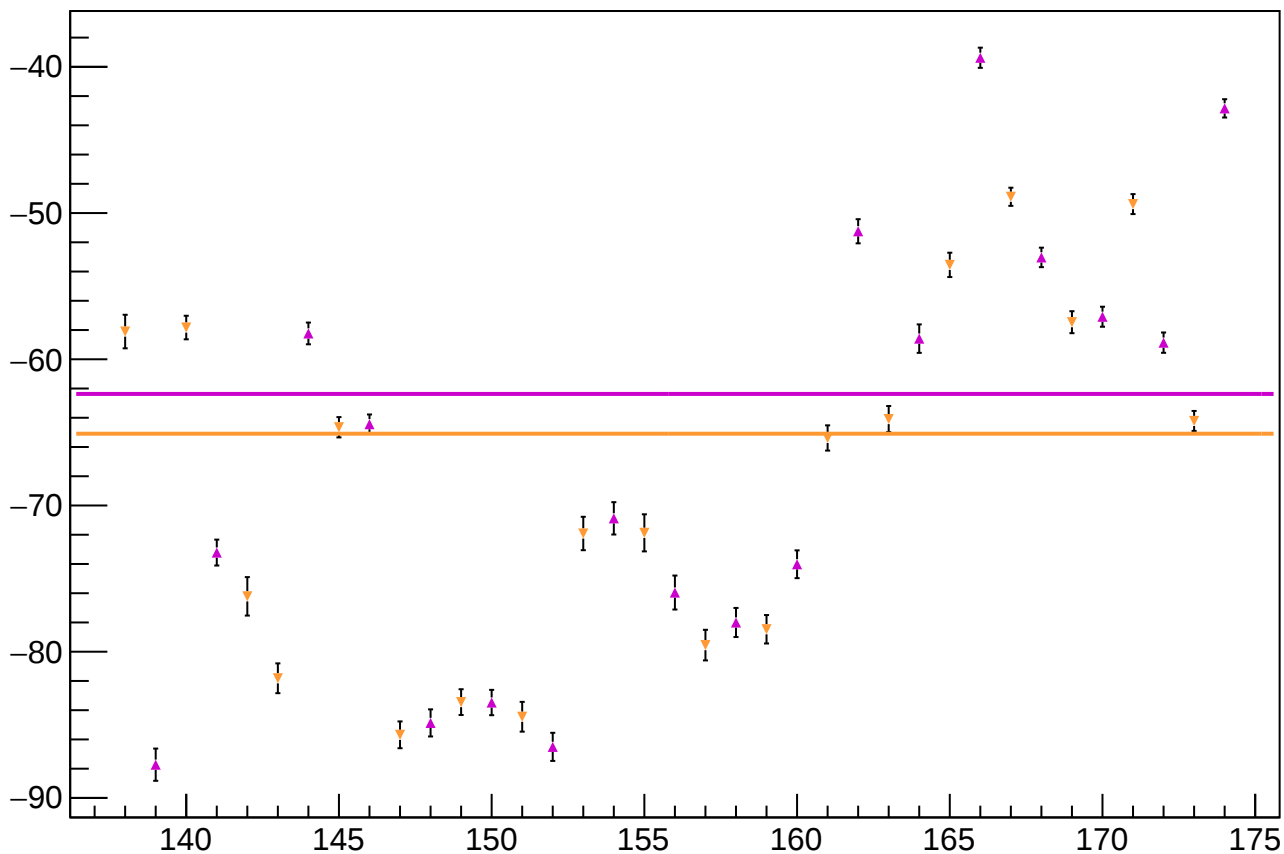
reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.977 $\pm$ 0.144  $\chi^2/\text{NDF}$ :1270.7/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.223 $\pm$ 0.143  $\chi^2/\text{NDF}$ :1490.4/17

Left: -1.597 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 2775.0/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.223 $\pm$ 0.143  $\chi^2/\text{NDF}$ :1490.4/17  
 Out: -1.977 $\pm$ 0.144  $\chi^2/\text{NDF}$ :1270.7/18  
 All: -1.597 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 2775.0/36

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: -65.091+/-0.198  $\chi^2/\text{NDF}$ :3714.8/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -62.370+/-0.192  $\chi^2/\text{NDF}$ :5689.8/17

Left: -63.688+/-0.138  $\chi^2/\text{NDF}$ : 9501.6/36

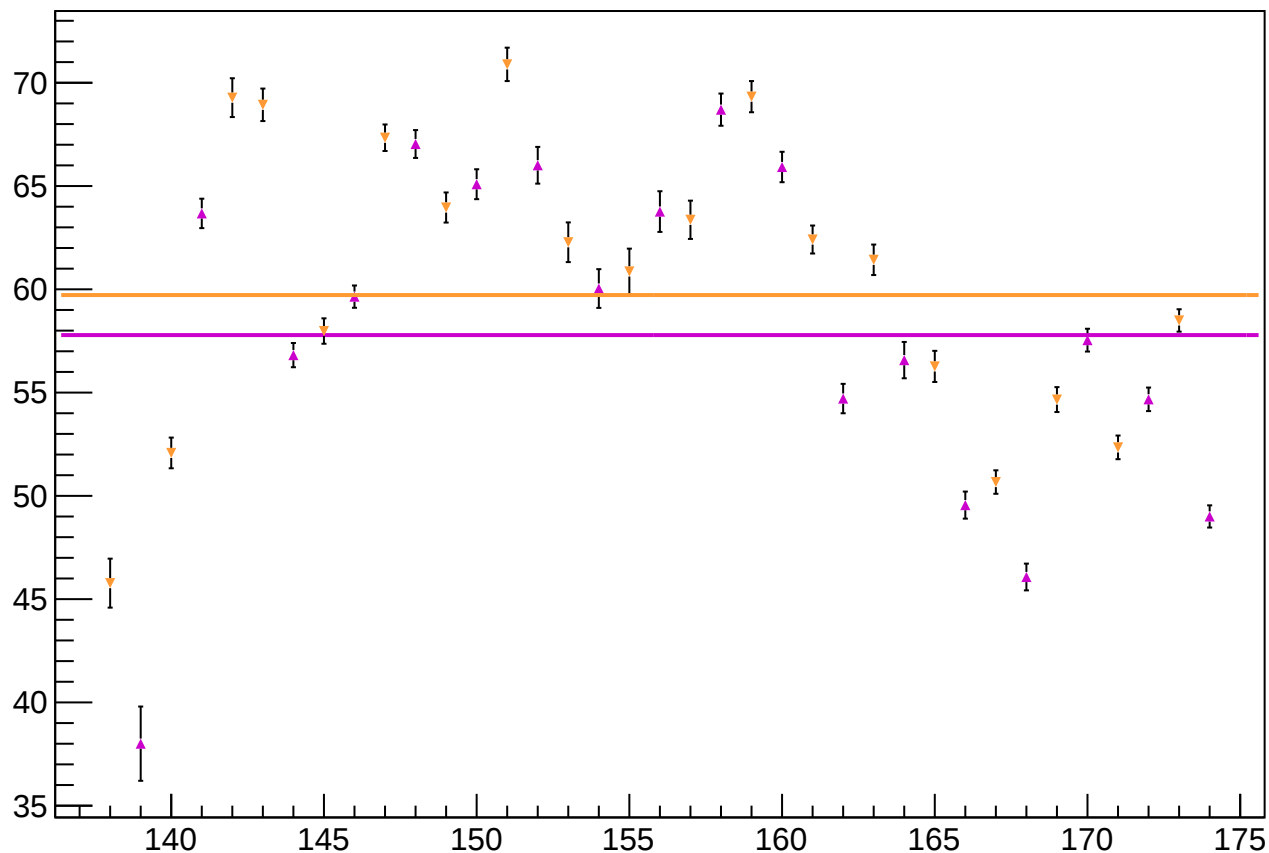
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -62.370+/-0.192  $\chi^2/\text{NDF}$ :5689.8/17

Out: -65.091+/-0.198  $\chi^2/\text{NDF}$ :3714.8/18

All: -63.688+/-0.138  $\chi^2/\text{NDF}$ : 9501.6/36

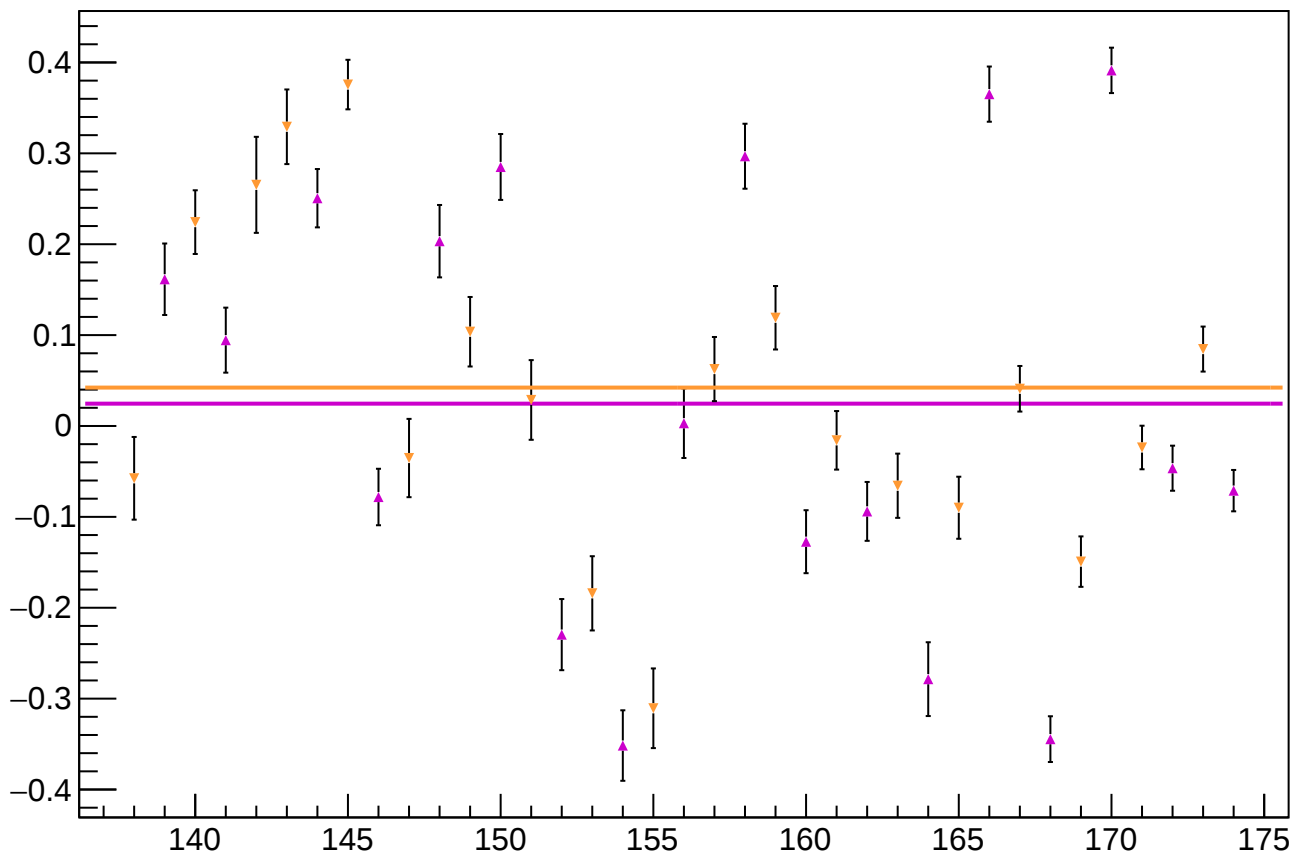
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 59.722+/-0.165  $\chi^2$ /NDF:1580.9/18  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 57.784+/-0.163  $\chi^2$ /NDF:1742.5/17

Left: 58.743+/-0.116  $\chi^2$ /NDF: 3393.0/36  
 Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 In: 57.784+/-0.163  $\chi^2$ /NDF:1742.5/17  
 Out: 59.722+/-0.165  $\chi^2$ /NDF:1580.9/18  
 All: 58.743+/-0.116  $\chi^2$ /NDF: 3393.0/36

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: 0.042 $\pm$ 0.008  $\chi^2$ /NDF:440.5/18

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.025 $\pm$ 0.007  $\chi^2$ /NDF:1013.2/17

Left: 0.033 $\pm$ 0.005  $\chi^2$ /NDF: 1456.3/36

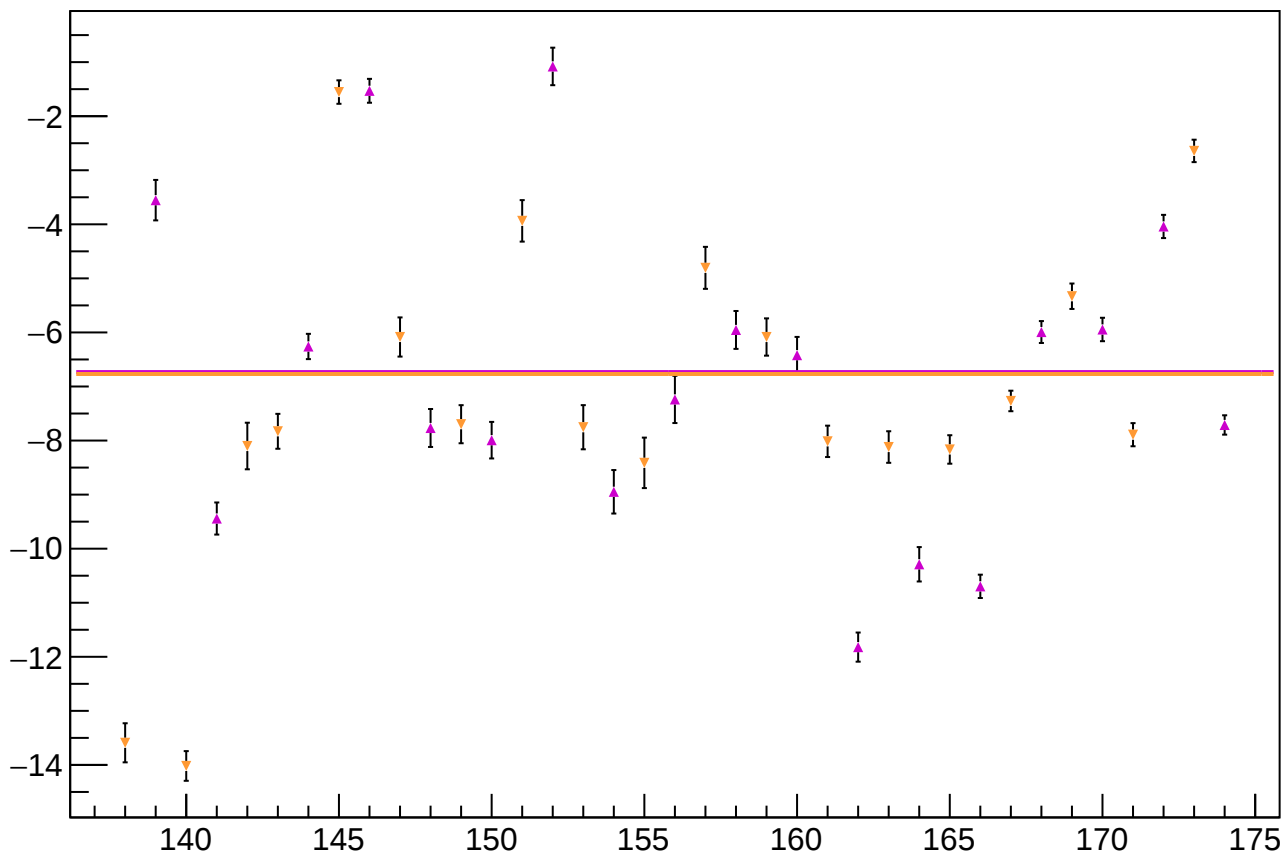
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.025 $\pm$ 0.007  $\chi^2$ /NDF:1013.2/17

Out: 0.042 $\pm$ 0.008  $\chi^2$ /NDF:440.5/18

All: 0.033 $\pm$ 0.005  $\chi^2$ /NDF: 1456.3/36

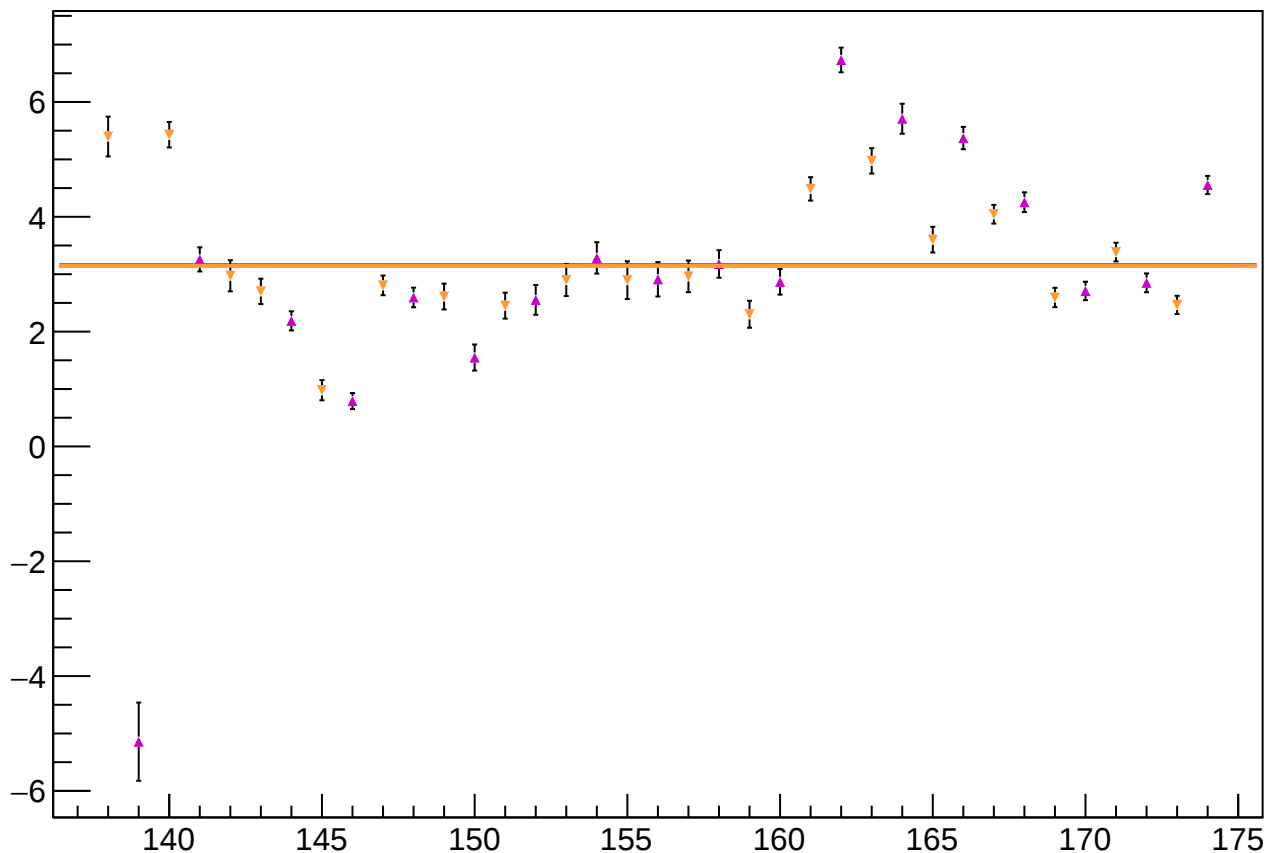
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.768+/-0.065  $\chi^2/\text{NDF}$ :2299.3/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.733+/-0.063  $\chi^2/\text{NDF}$ :2072.2/17

Left: -6.750+/-0.045  $\chi^2/\text{NDF}$ : 4371.7/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.733+/-0.063  $\chi^2/\text{NDF}$ :2072.2/17  
 Out: -6.768+/-0.065  $\chi^2/\text{NDF}$ :2299.3/18  
 All: -6.750+/-0.045  $\chi^2/\text{NDF}$ : 4371.7/36

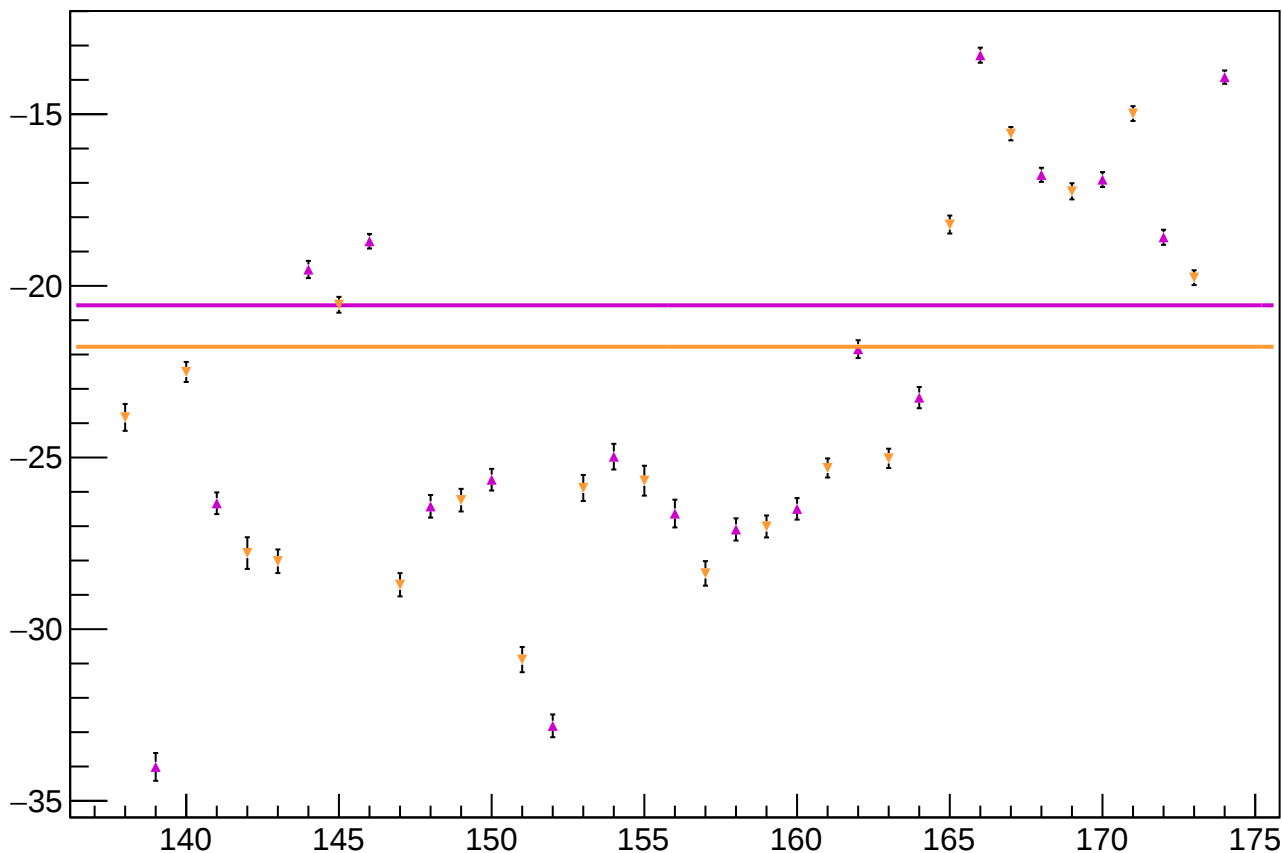
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.146 $\pm$ 0.048  $\chi^2$ /NDF:514.6/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.157 $\pm$ 0.047  $\chi^2$ /NDF:1171.4/17

Left: 3.152 $\pm$ 0.033  $\chi^2$ /NDF: 1686.0/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.157 $\pm$ 0.047  $\chi^2$ /NDF:1171.4/17  
 Out: 3.146 $\pm$ 0.048  $\chi^2$ /NDF:514.6/18  
 All: 3.152 $\pm$ 0.033  $\chi^2$ /NDF: 1686.0/36

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: -21.774+/-0.065  $\chi^2/\text{NDF}$ : 5539.5/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -20.566+/-0.063  $\chi^2/\text{NDF}$ : 7674.5/17

Left: -21.145+/-0.045  $\chi^2/\text{NDF}$ : 13391.1/36

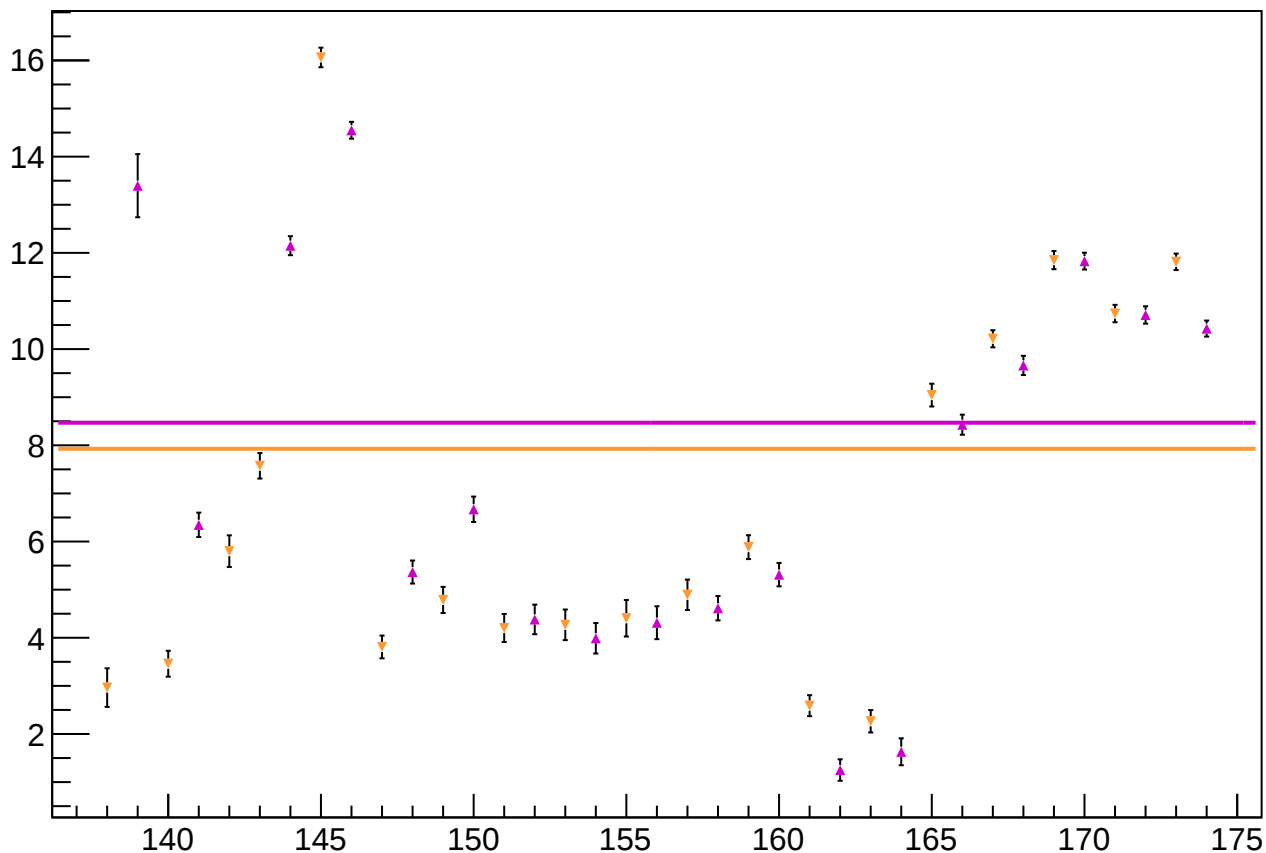
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -20.566+/-0.063  $\chi^2/\text{NDF}$ : 7674.5/17

Out: -21.774+/-0.065  $\chi^2/\text{NDF}$ : 5539.5/18

All: -21.145+/-0.045  $\chi^2/\text{NDF}$ : 13391.1/36

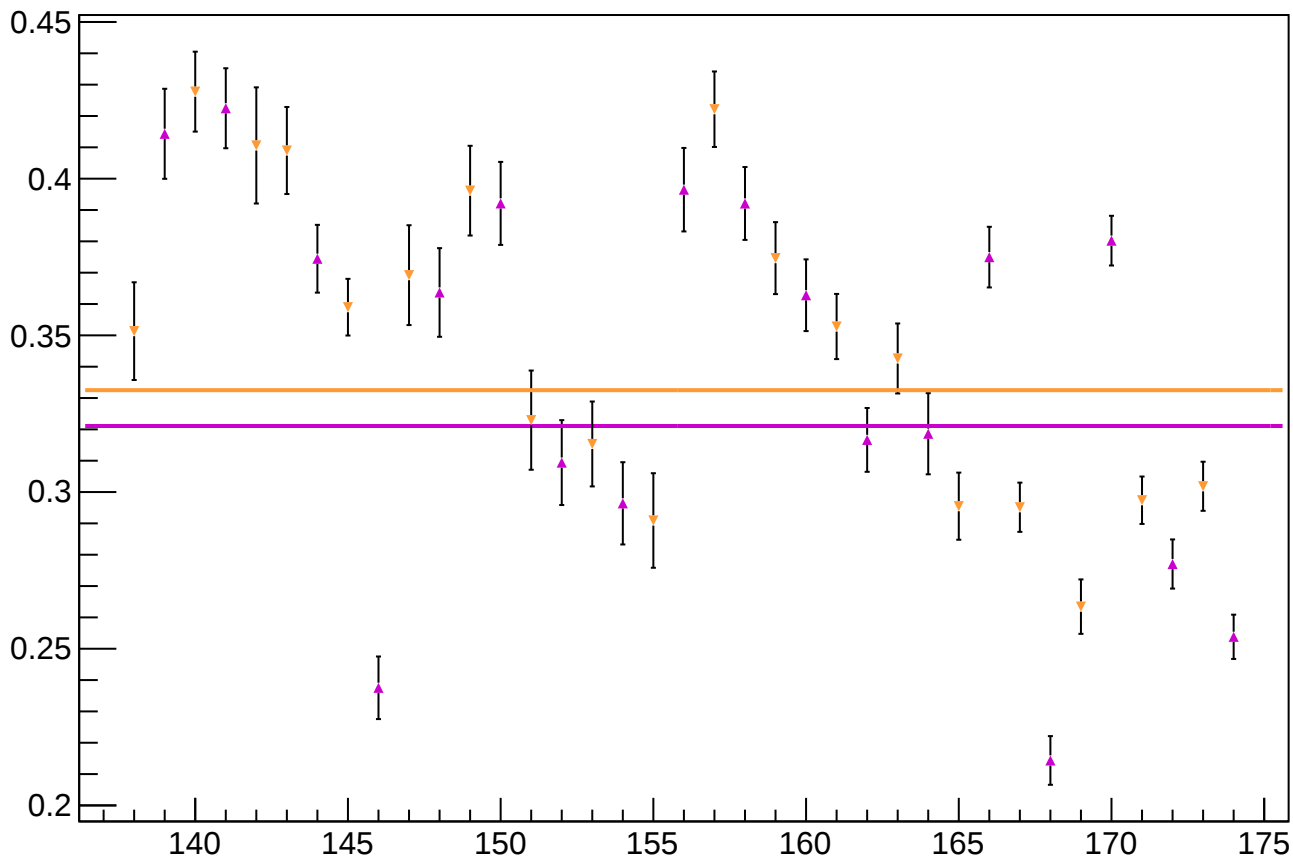
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.929+/-0.055  $\chi^2/\text{NDF}$ :5622.3/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.470+/-0.053  $\chi^2/\text{NDF}$ :5158.7/17

Left: 8.205+/-0.038  $\chi^2/\text{NDF}$ : 10831.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 8.470+/-0.053  $\chi^2/\text{NDF}$ :5158.7/17  
 Out: 7.929+/-0.055  $\chi^2/\text{NDF}$ :5622.3/18  
 All: 8.205+/-0.038  $\chi^2/\text{NDF}$ : 10831.2/36

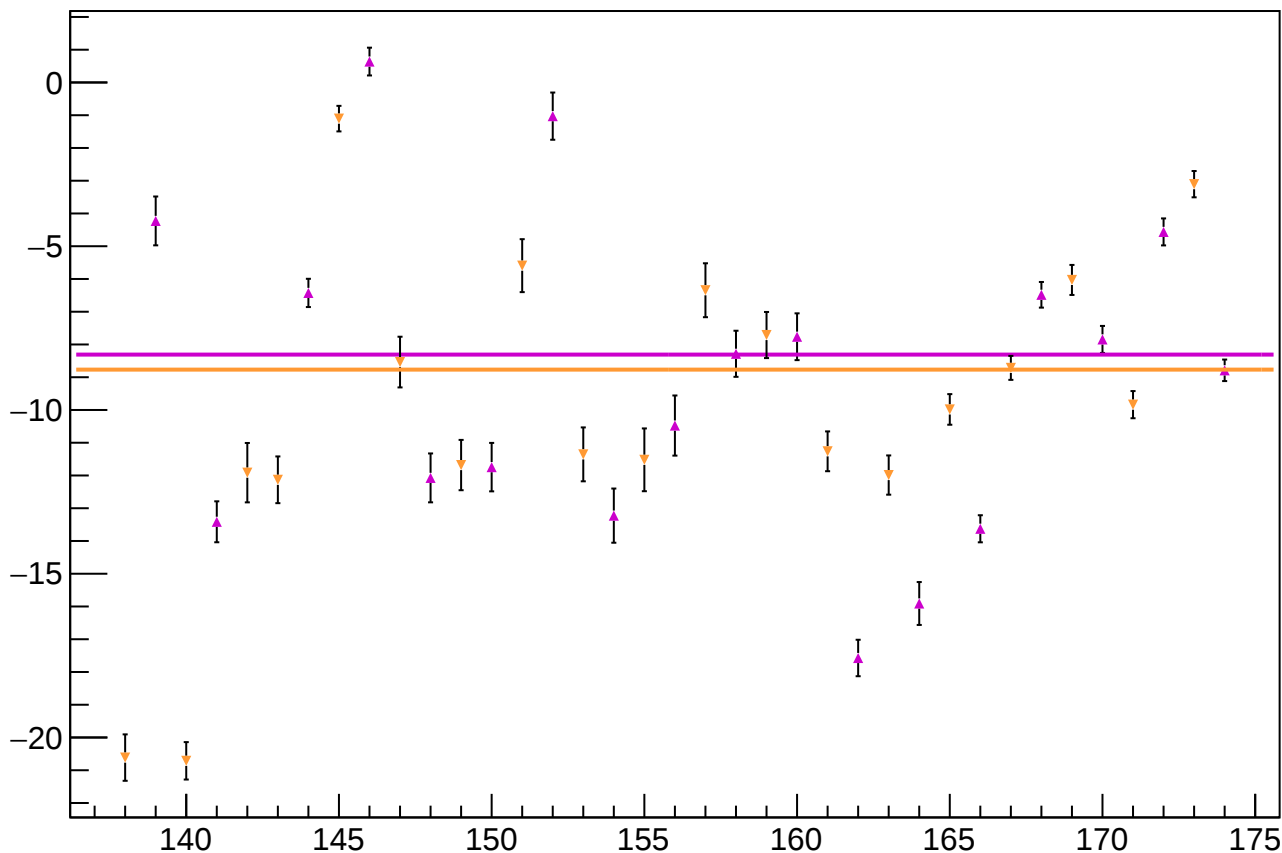
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.333 $\pm$ 0.003  $\chi^2$ /NDF:356.7/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.321 $\pm$ 0.002  $\chi^2$ /NDF:722.2/17

Left: 0.327 $\pm$ 0.002  $\chi^2$ /NDF: 1089.5/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.321 $\pm$ 0.002  $\chi^2$ /NDF:722.2/17  
 Out: 0.333 $\pm$ 0.003  $\chi^2$ /NDF:356.7/18  
 All: 0.327 $\pm$ 0.002  $\chi^2$ /NDF: 1089.5/36

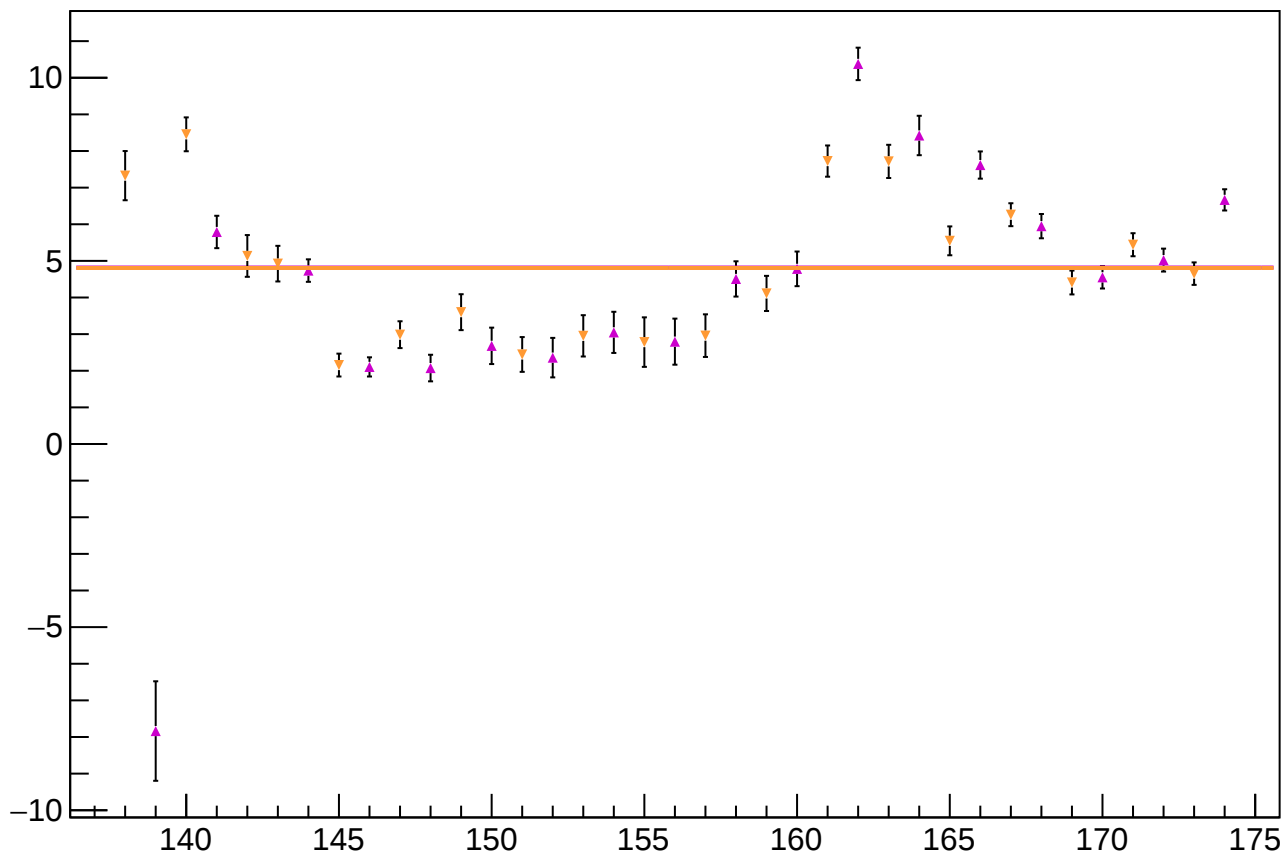
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -8.768 $\pm$ 0.129  $\chi^2$ /NDF:1489.4/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -8.309 $\pm$ 0.123  $\chi^2$ /NDF:1435.8/17

Left: -8.527 $\pm$ 0.089  $\chi^2$ /NDF: 2931.8/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -8.309 $\pm$ 0.123  $\chi^2$ /NDF:1435.8/17  
 Out: -8.768 $\pm$ 0.129  $\chi^2$ /NDF:1489.4/18  
 All: -8.527 $\pm$ 0.089  $\chi^2$ /NDF: 2931.8/36

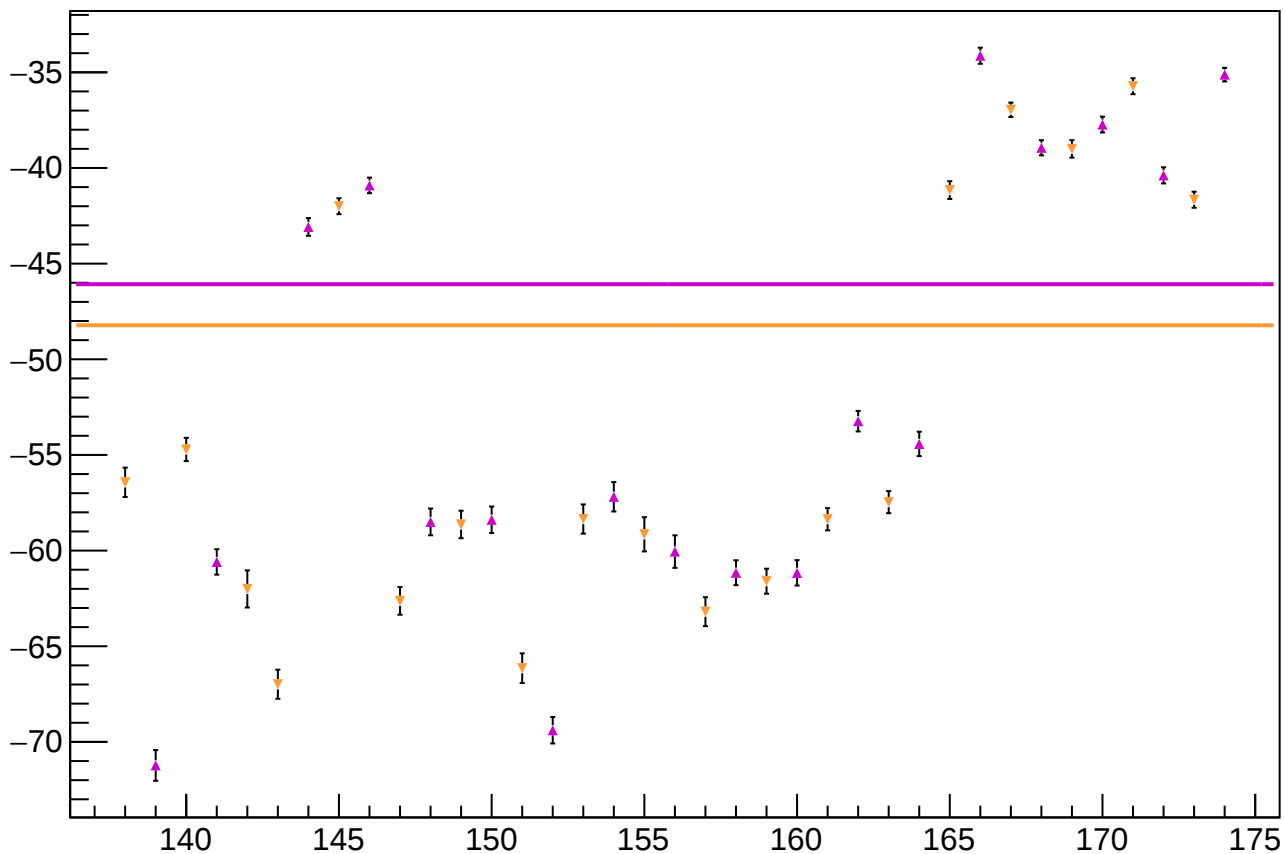
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.807 $\pm$ 0.095  $\chi^2$ /NDF:355.4/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.819 $\pm$ 0.092  $\chi^2$ /NDF:628.6/17

Left: 4.813 $\pm$ 0.066  $\chi^2$ /NDF: 984.0/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 4.819 $\pm$ 0.092  $\chi^2$ /NDF:628.6/17  
 Out: 4.807 $\pm$ 0.095  $\chi^2$ /NDF:355.4/18  
 All: 4.813 $\pm$ 0.066  $\chi^2$ /NDF: 984.0/36

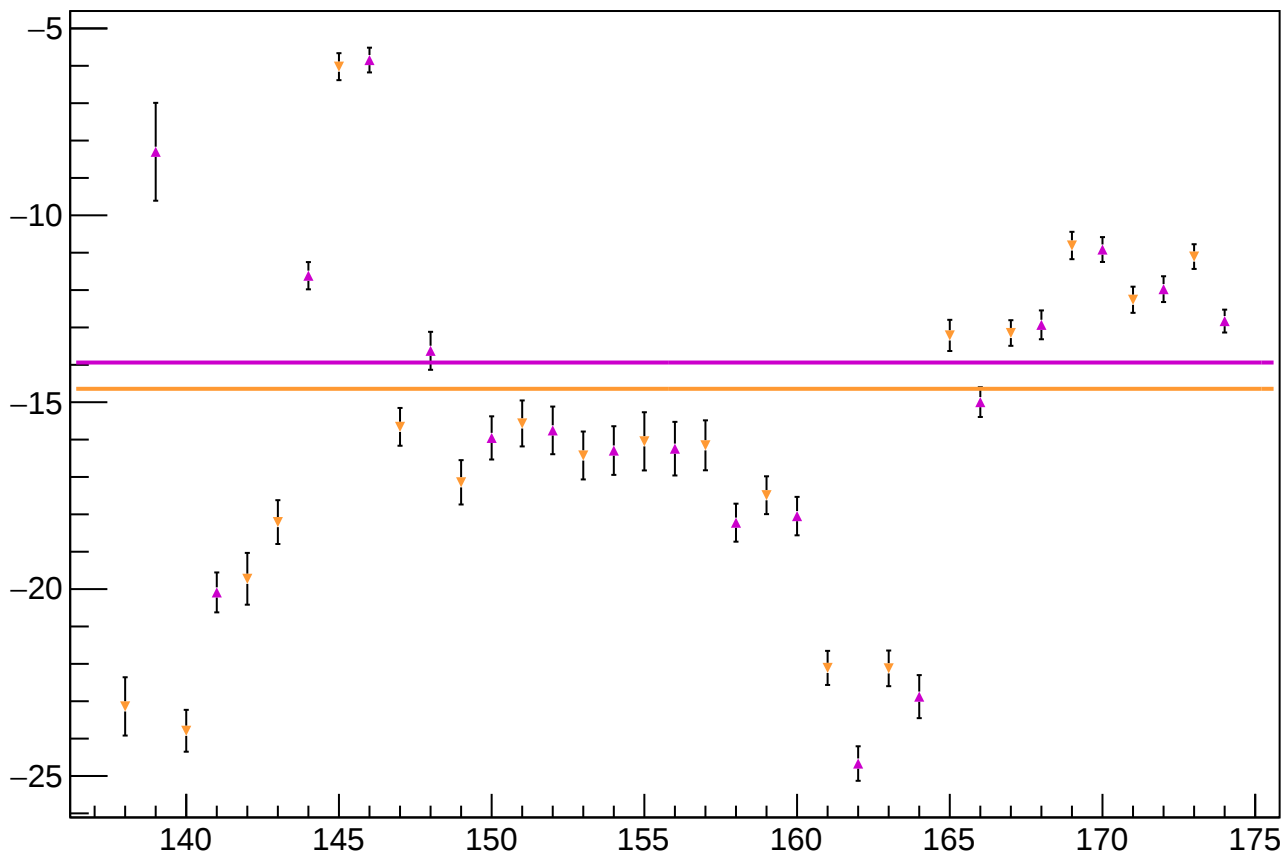
reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -48.223+/-0.130  $\chi^2/\text{NDF}$ : 6784.6/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -46.076+/-0.123  $\chi^2/\text{NDF}$ : 7977.7/17

Left: -47.096+/-0.089  $\chi^2/\text{NDF}$ : 14906.1/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -46.076+/-0.123  $\chi^2/\text{NDF}$ : 7977.7/17  
 Out: -48.223+/-0.130  $\chi^2/\text{NDF}$ : 6784.6/18  
 All: -47.096+/-0.089  $\chi^2/\text{NDF}$ : 14906.1/36

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



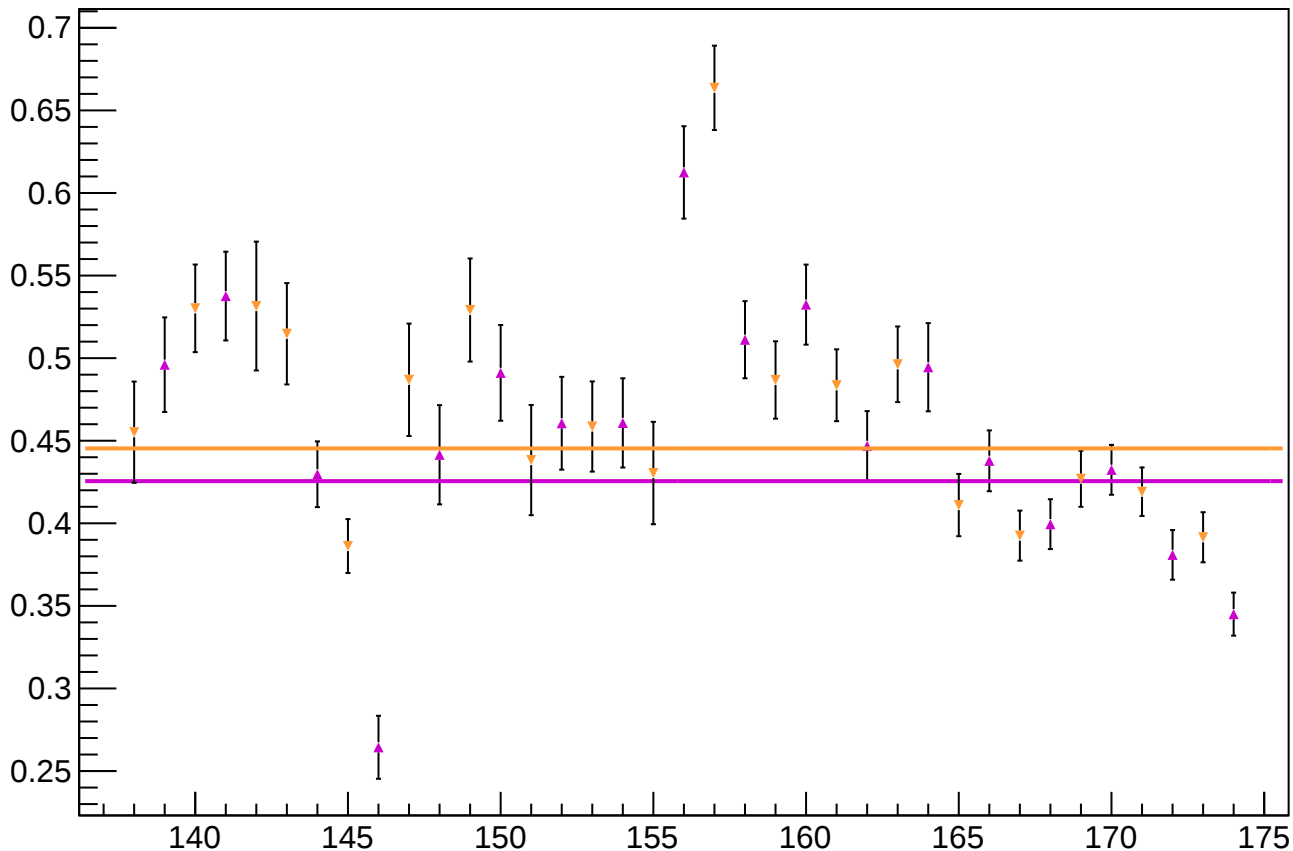
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-14.641 \pm 0.108$   $\chi^2/\text{NDF}: 1934.0/18$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-13.938 \pm 0.105$   $\chi^2/\text{NDF}: 1890.6/17$

Left:  $-14.279 \pm 0.075$   $\chi^2/\text{NDF}: 3846.4/36$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-13.938 \pm 0.105$   $\chi^2/\text{NDF}: 1890.6/17$   
 Out:  $-14.641 \pm 0.108$   $\chi^2/\text{NDF}: 1934.0/18$

All:  $-14.279 \pm 0.075$   $\chi^2/\text{NDF}: 3846.4/36$

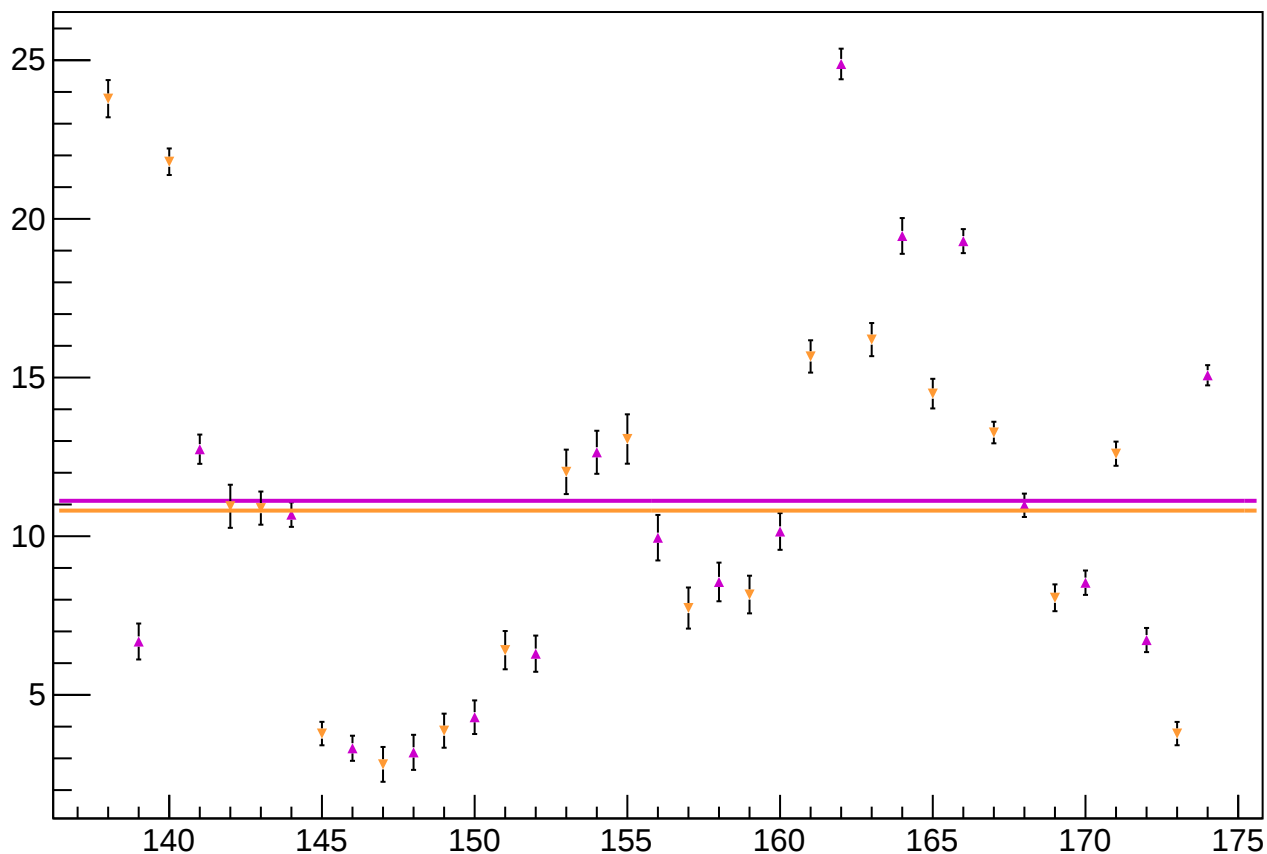
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.445 $\pm$ 0.005  $\chi^2$ /NDF:159.3/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.426 $\pm$ 0.005  $\chi^2$ /NDF:239.3/17

Left: 0.435 $\pm$ 0.003  $\chi^2$ /NDF: 406.8/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.426 $\pm$ 0.005  $\chi^2$ /NDF:239.3/17  
 Out: 0.445 $\pm$ 0.005  $\chi^2$ /NDF:159.3/18  
 All: 0.435 $\pm$ 0.003  $\chi^2$ /NDF: 406.8/36

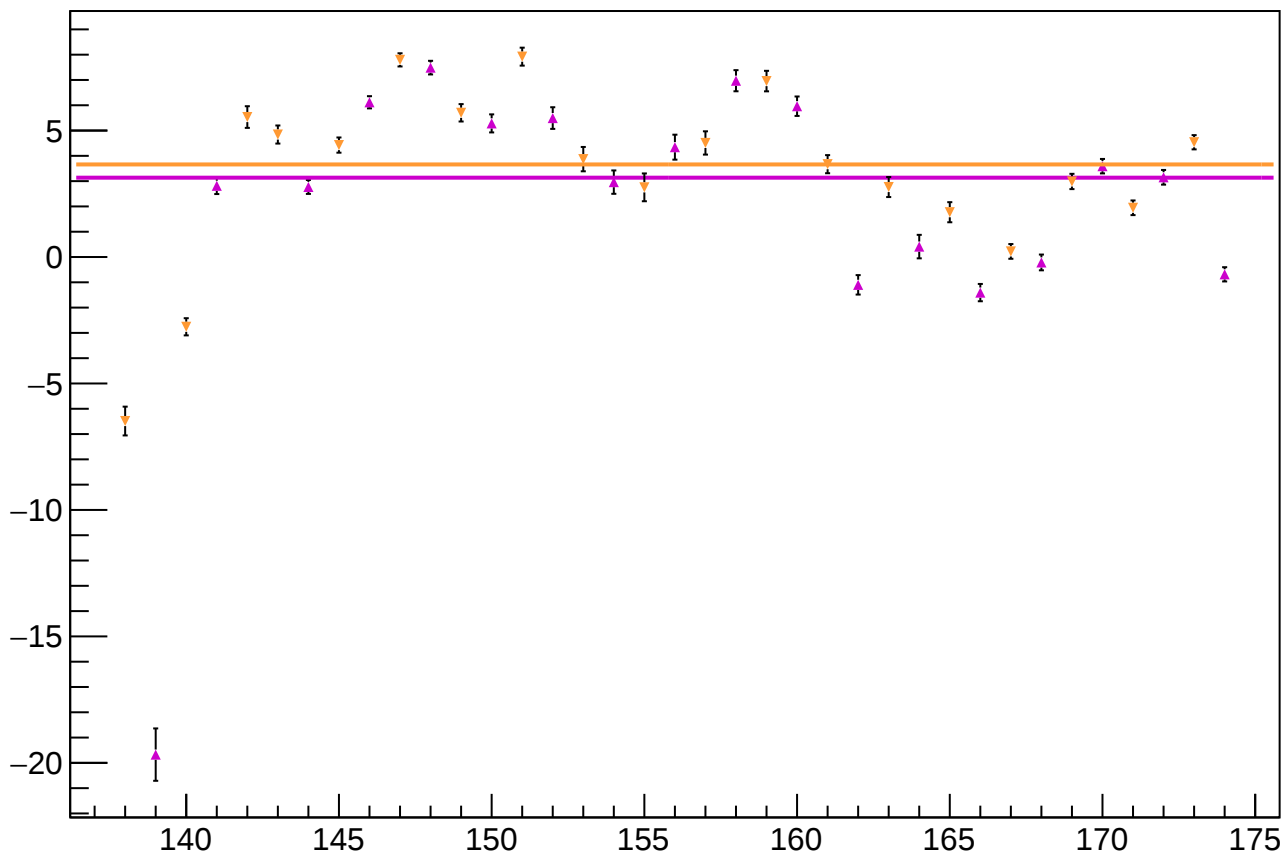
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 10.807+/-0.111  $\chi^2/\text{NDF}$ :2770.1/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.116+/-0.108  $\chi^2/\text{NDF}$ :2767.5/17

Left: 10.966+/-0.077  $\chi^2/\text{NDF}$ : 5541.6/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.116+/-0.108  $\chi^2/\text{NDF}$ :2767.5/17  
 Out: 10.807+/-0.111  $\chi^2/\text{NDF}$ :2770.1/18  
 All: 10.966+/-0.077  $\chi^2/\text{NDF}$ : 5541.6/36

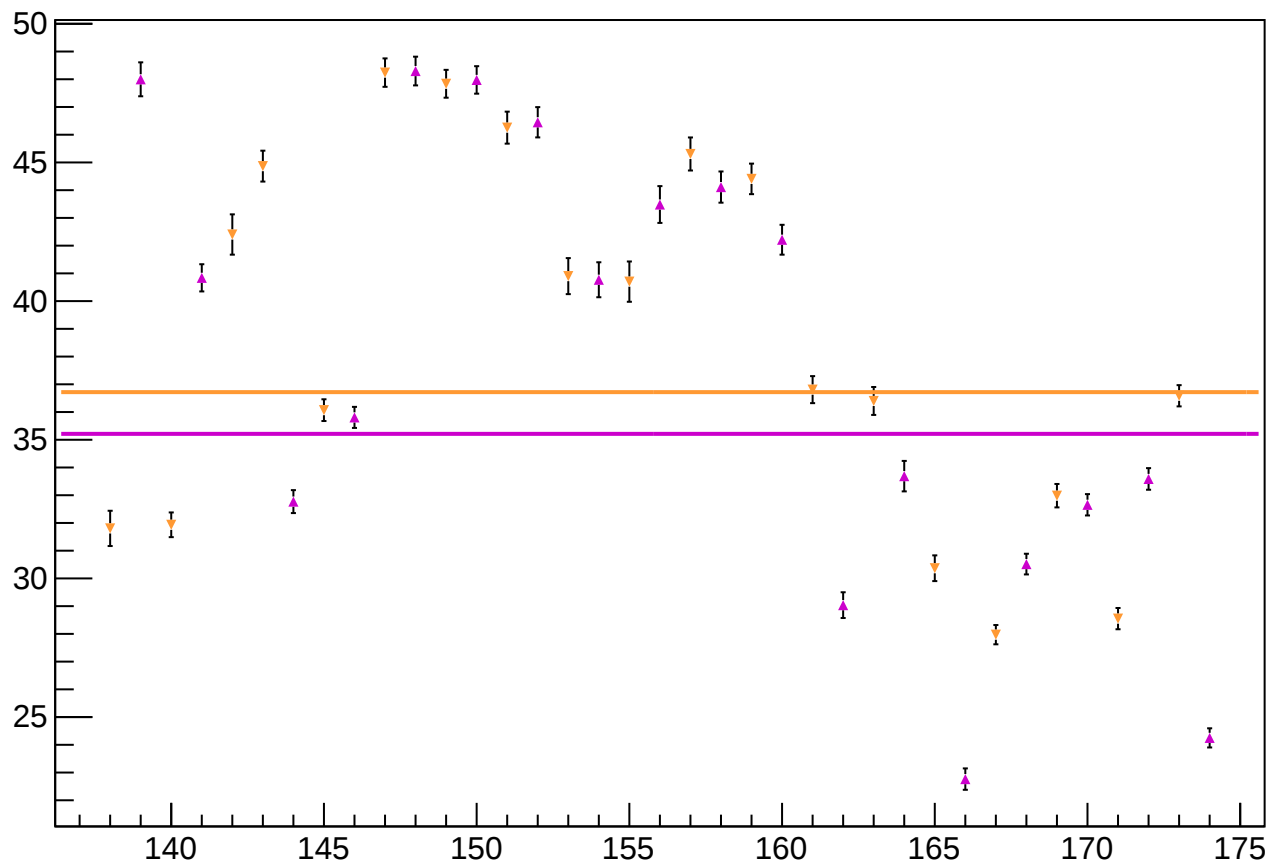
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.660 $\pm$ 0.081  $\chi^2$ /NDF:1431.5/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.137 $\pm$ 0.080  $\chi^2$ /NDF:1747.0/17

Left: 3.396 $\pm$ 0.057  $\chi^2$ /NDF: 3199.8/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.137 $\pm$ 0.080  $\chi^2$ /NDF:1747.0/17  
 Out: 3.660 $\pm$ 0.081  $\chi^2$ /NDF:1431.5/18  
 All: 3.396 $\pm$ 0.057  $\chi^2$ /NDF: 3199.8/36

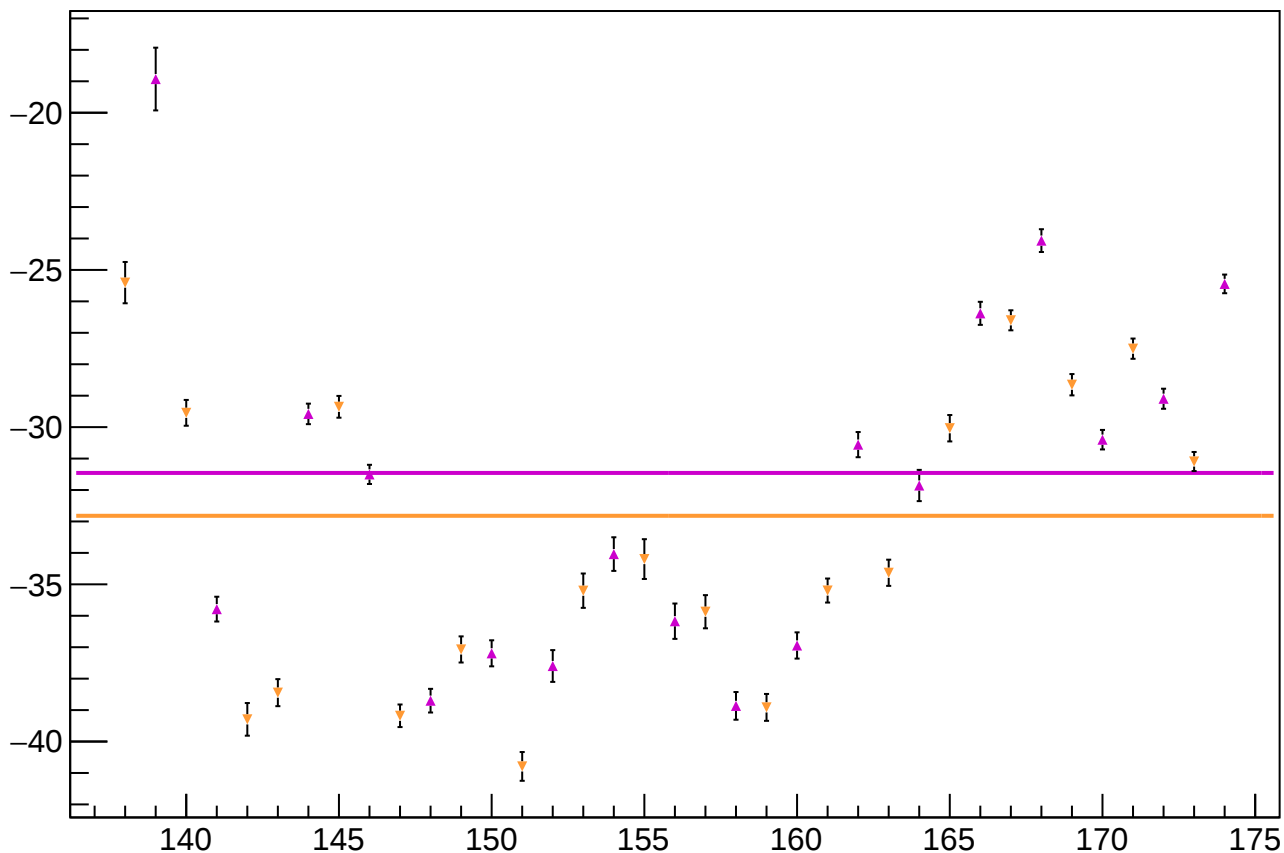
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 36.718+/-0.111  $\chi^2/\text{NDF}$ :3548.6/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 35.213+/-0.108  $\chi^2/\text{NDF}$ :5435.2/17

Left: 35.942+/-0.078  $\chi^2/\text{NDF}$ : 9077.8/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 35.213+/-0.108  $\chi^2/\text{NDF}$ :5435.2/17  
 Out: 36.718+/-0.111  $\chi^2/\text{NDF}$ :3548.6/18  
 All: 35.942+/-0.078  $\chi^2/\text{NDF}$ : 9077.8/36

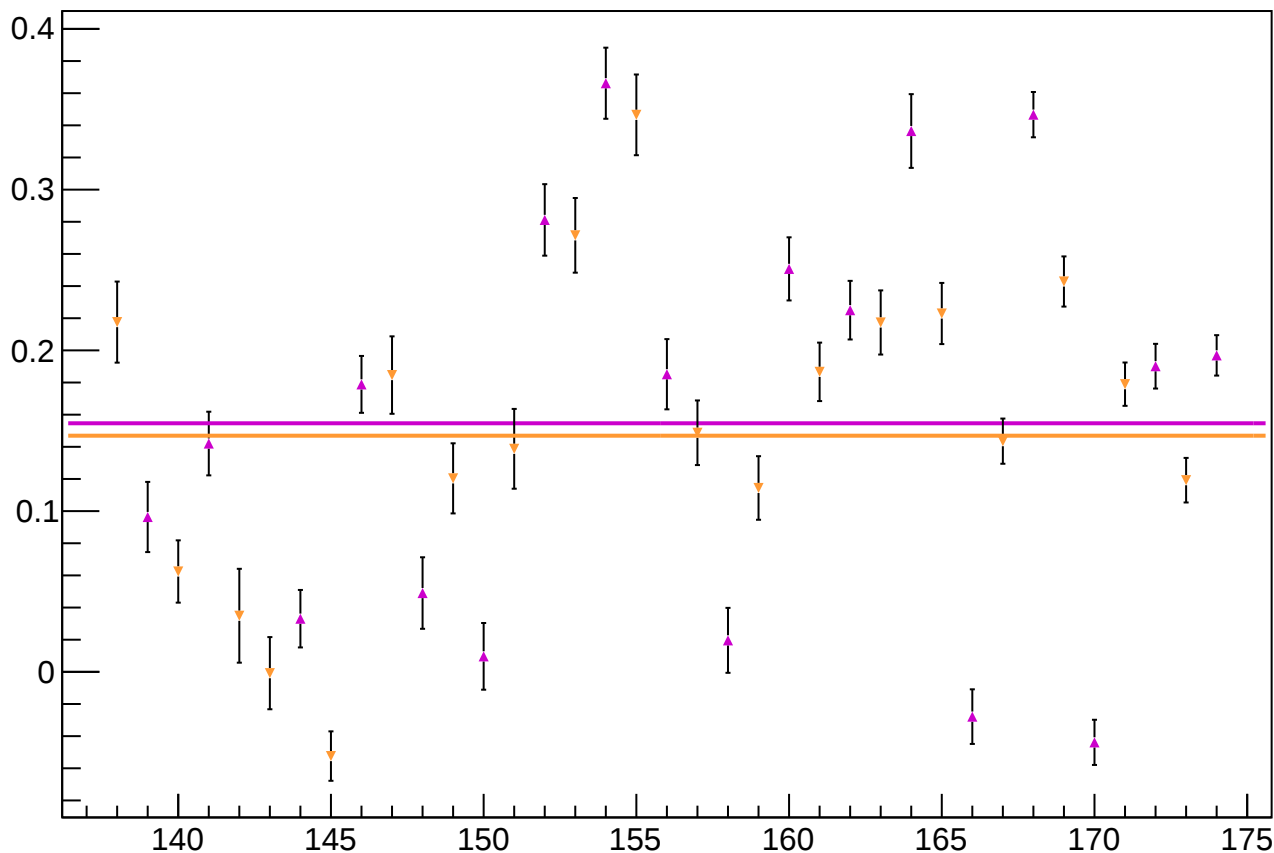
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.820+/-0.093  $\chi^2/\text{NDF}$ :2538.7/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -31.457+/-0.092  $\chi^2/\text{NDF}$ :2660.4/17

Left: -32.131+/-0.065  $\chi^2/\text{NDF}$ : 5308.3/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -31.457+/-0.092  $\chi^2/\text{NDF}$ :2660.4/17  
 Out: -32.820+/-0.093  $\chi^2/\text{NDF}$ :2538.7/18  
 All: -32.131+/-0.065  $\chi^2/\text{NDF}$ : 5308.3/36

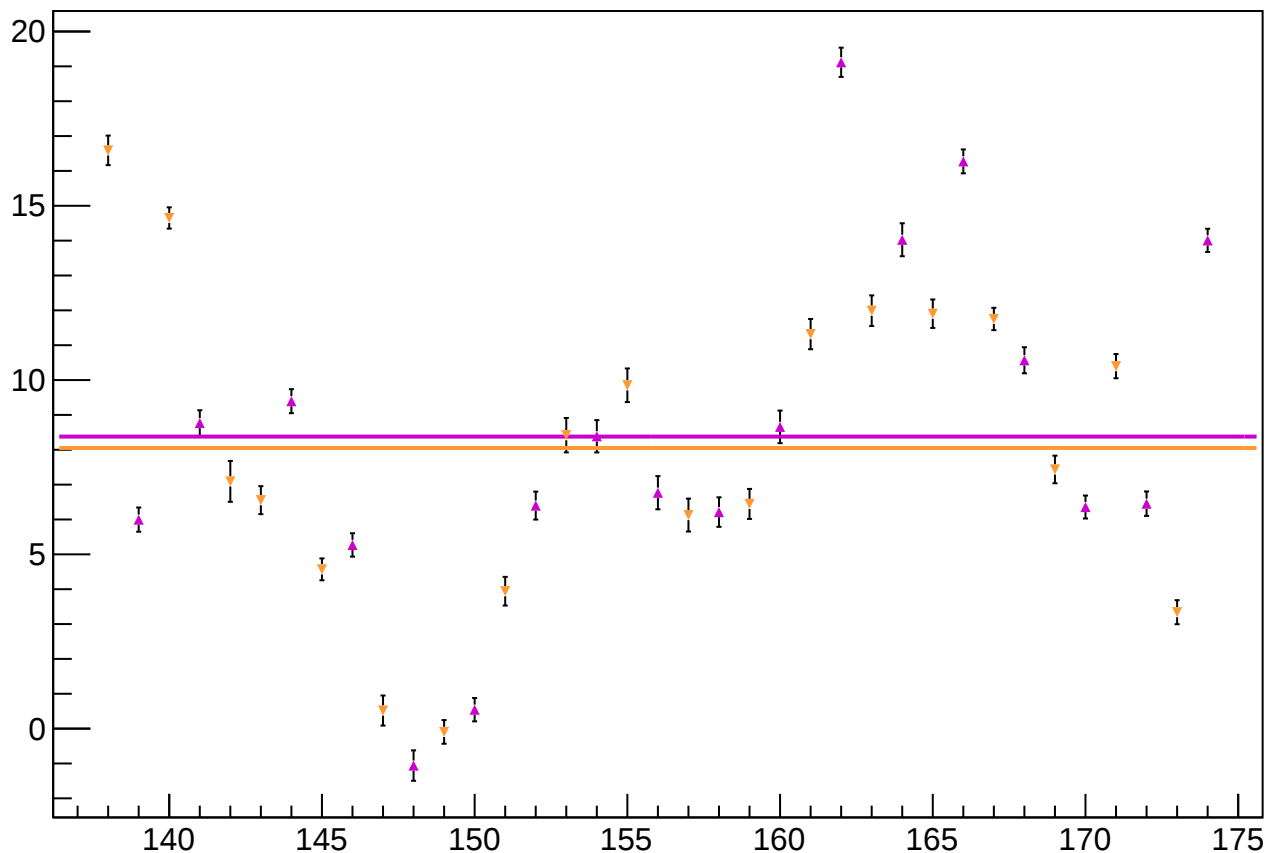
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.147 $\pm$ 0.004  $\chi^2$ /NDF:432.2/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.155 $\pm$ 0.004  $\chi^2$ /NDF:917.4/17

Left: 0.151 $\pm$ 0.003  $\chi^2$ /NDF: 1351.3/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.155 $\pm$ 0.004  $\chi^2$ /NDF:917.4/17  
 Out: 0.147 $\pm$ 0.004  $\chi^2$ /NDF:432.2/18  
 All: 0.151 $\pm$ 0.003  $\chi^2$ /NDF: 1351.3/36

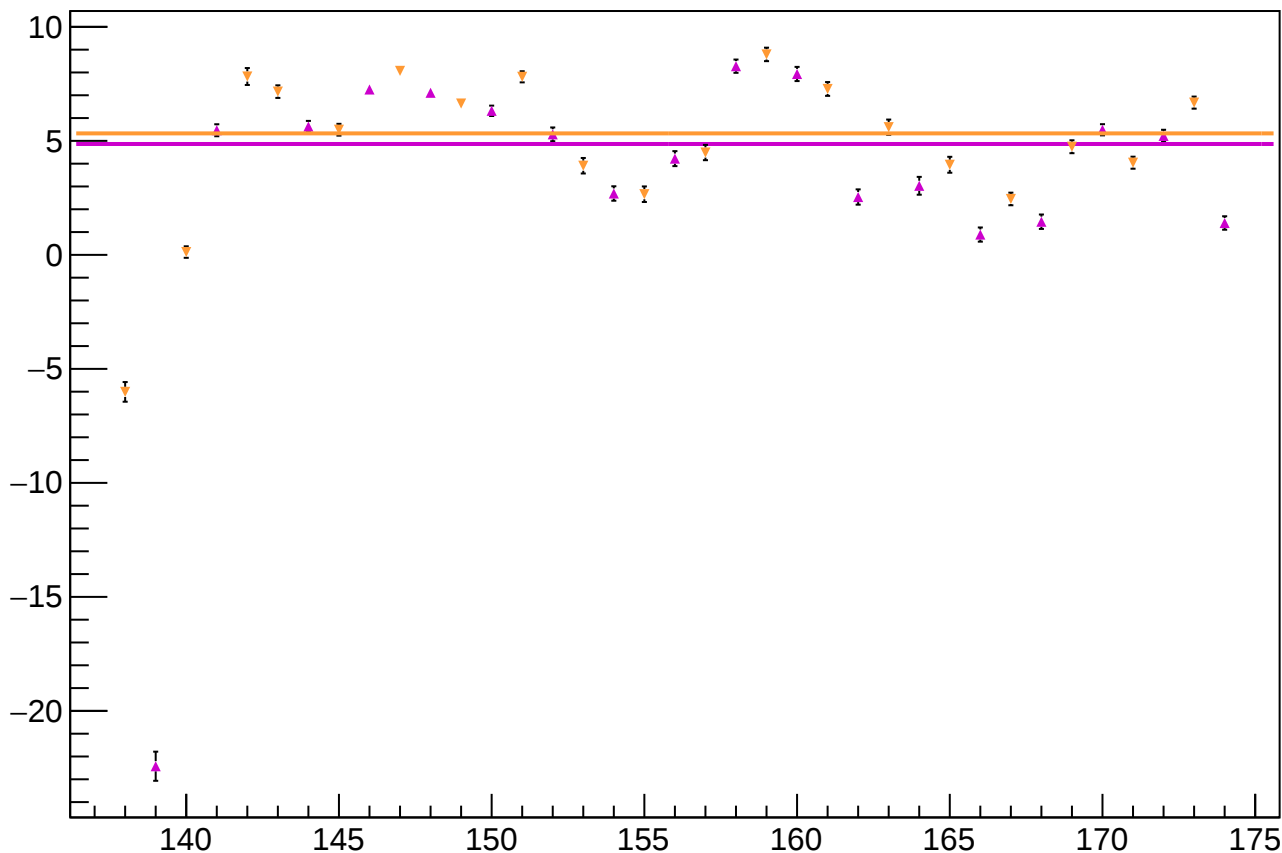
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.052 $\pm$ 0.090  $\chi^2/\text{NDF}$ :2634.3/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.378 $\pm$ 0.090  $\chi^2/\text{NDF}$ :2933.7/17

Left: 8.216 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 5574.6/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 8.378 $\pm$ 0.090  $\chi^2/\text{NDF}$ :2933.7/17  
 Out: 8.052 $\pm$ 0.090  $\chi^2/\text{NDF}$ :2634.3/18  
 All: 8.216 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 5574.6/36

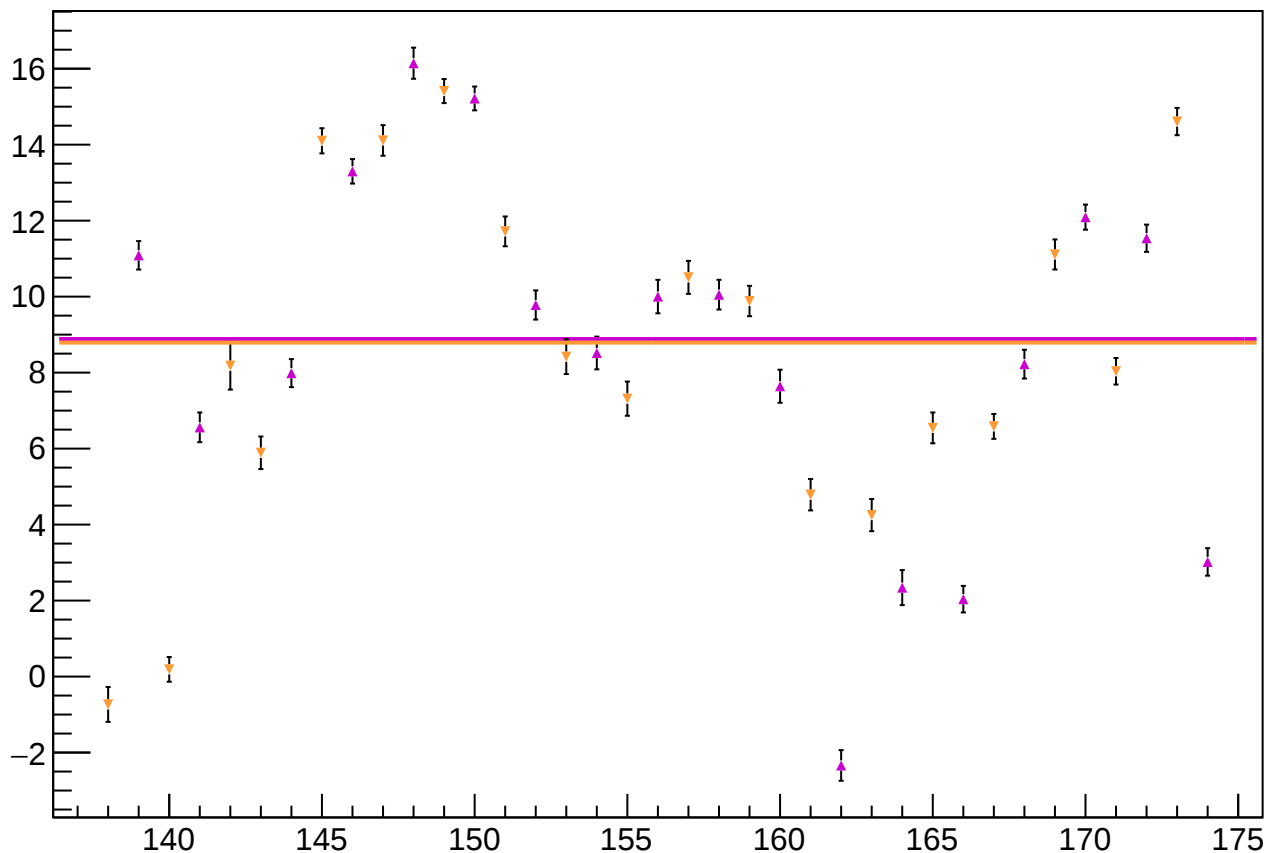
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.328 $\pm$ 0.065  $\chi^2$ /NDF:1959.8/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.863 $\pm$ 0.067  $\chi^2$ /NDF:2896.7/17

Left: 5.101 $\pm$ 0.046  $\chi^2$ /NDF: 4881.5/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 4.863 $\pm$ 0.067  $\chi^2$ /NDF:2896.7/17  
 Out: 5.328 $\pm$ 0.065  $\chi^2$ /NDF:1959.8/18  
 All: 5.101 $\pm$ 0.046  $\chi^2$ /NDF: 4881.5/36

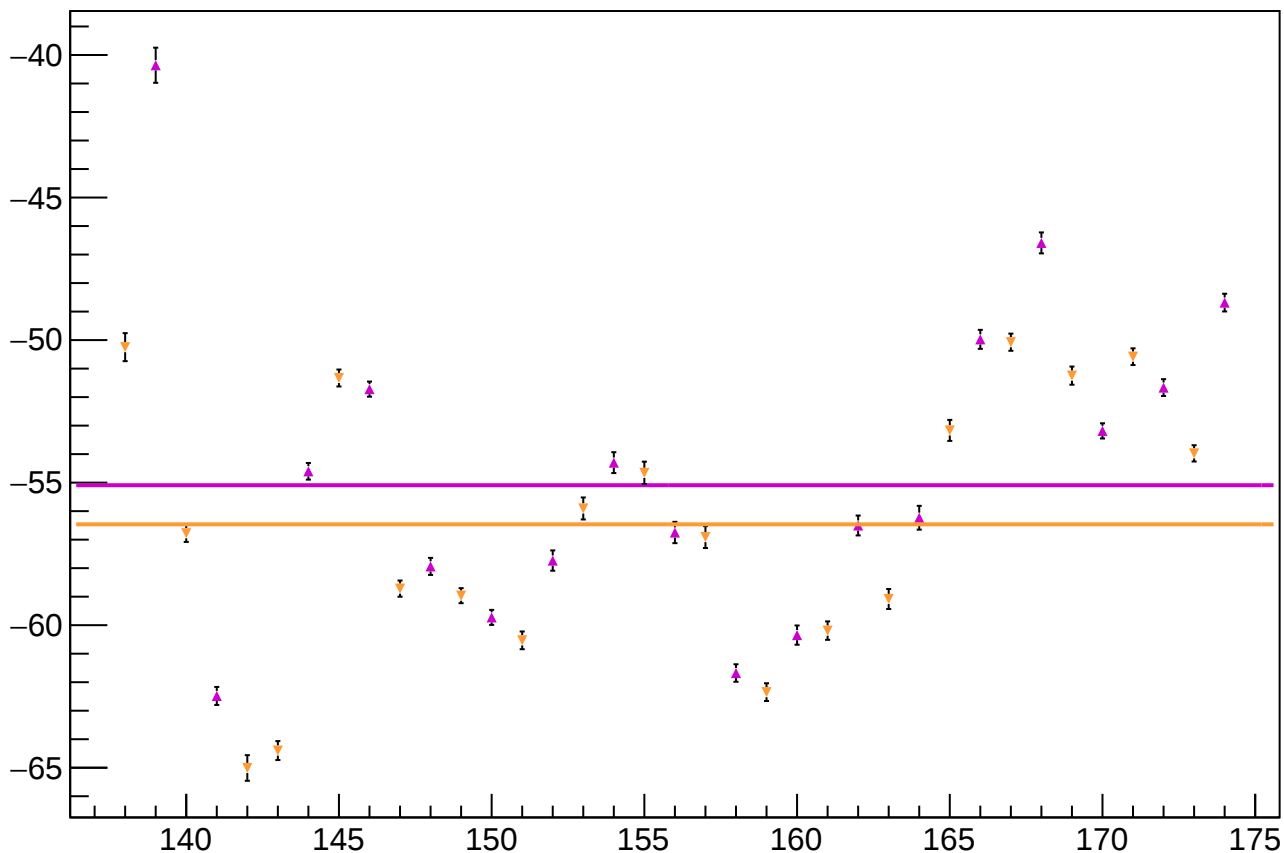
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.791+/-0.090  $\chi^2/\text{NDF}$ :2718.3/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.885+/-0.089  $\chi^2/\text{NDF}$ :2789.3/17

Left: 8.839+/-0.063  $\chi^2/\text{NDF}$ : 5508.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 8.885+/-0.089  $\chi^2/\text{NDF}$ :2789.3/17  
 Out: 8.791+/-0.090  $\chi^2/\text{NDF}$ :2718.3/18  
 All: 8.839+/-0.063  $\chi^2/\text{NDF}$ : 5508.2/36

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



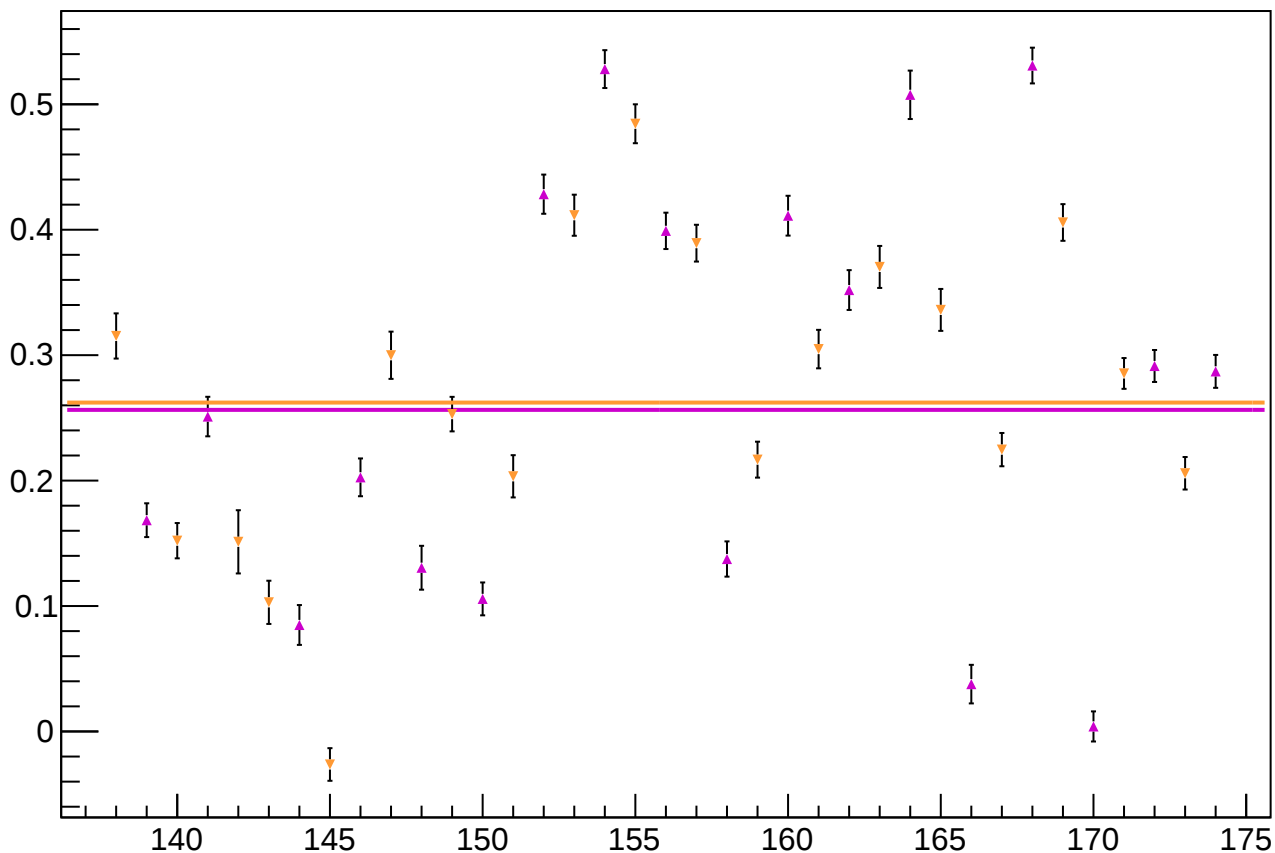
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -56.462+/-0.075  $\chi^2/\text{NDF}$ :3564.9/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -55.091+/-0.076  $\chi^2/\text{NDF}$ :3869.9/17

Left: -55.787+/-0.053  $\chi^2/\text{NDF}$ : 7599.4/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -55.091+/-0.076  $\chi^2/\text{NDF}$ :3869.9/17  
 Out: -56.462+/-0.075  $\chi^2/\text{NDF}$ :3564.9/18

All: -55.787+/-0.053  $\chi^2/\text{NDF}$ : 7599.4/36

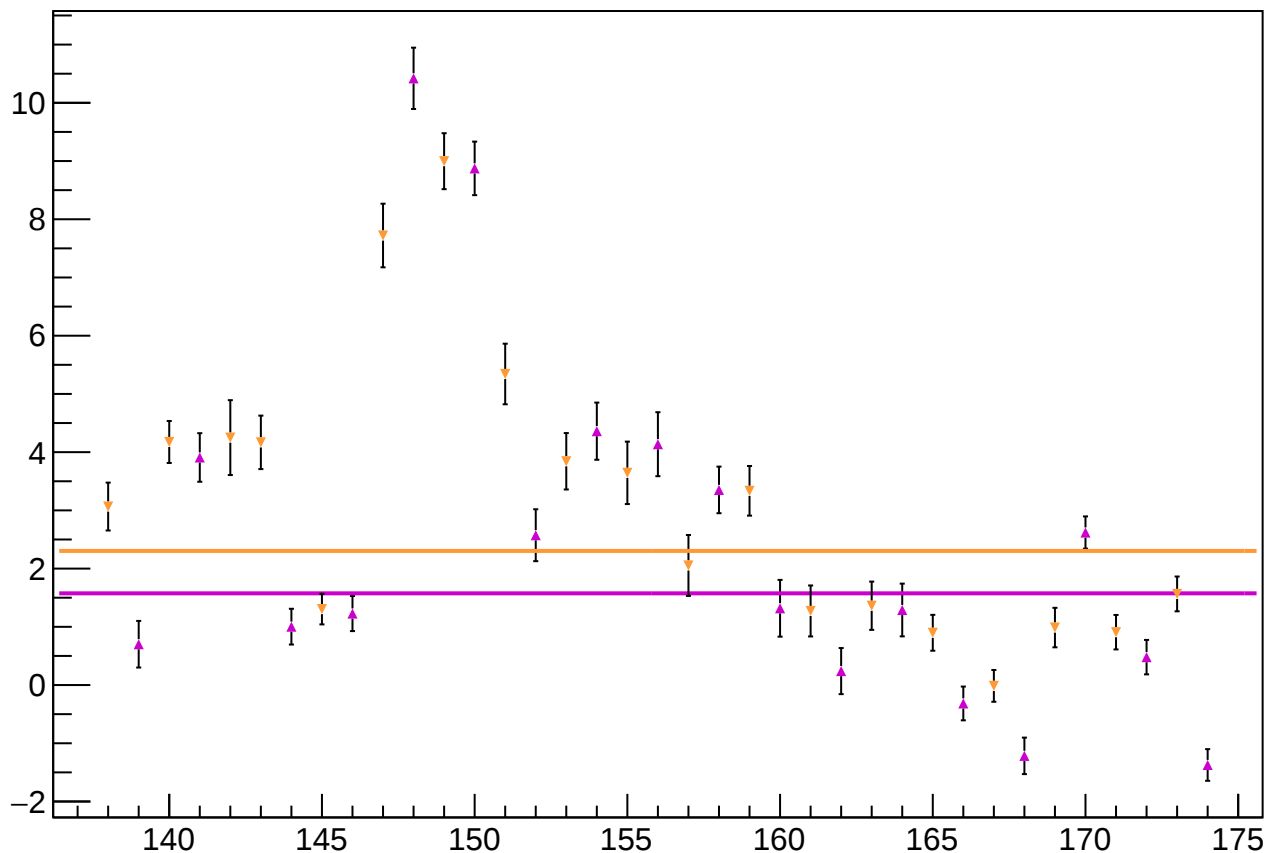
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.262+/-0.003  $\chi^2/\text{NDF}$ :1252.6/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.256+/-0.003  $\chi^2/\text{NDF}$ :2299.3/17

Left: 0.259+/-0.002  $\chi^2/\text{NDF}$ : 3553.3/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.256+/-0.003  $\chi^2/\text{NDF}$ :2299.3/17  
 Out: 0.262+/-0.003  $\chi^2/\text{NDF}$ :1252.6/18  
 All: 0.259+/-0.002  $\chi^2/\text{NDF}$ : 3553.3/36

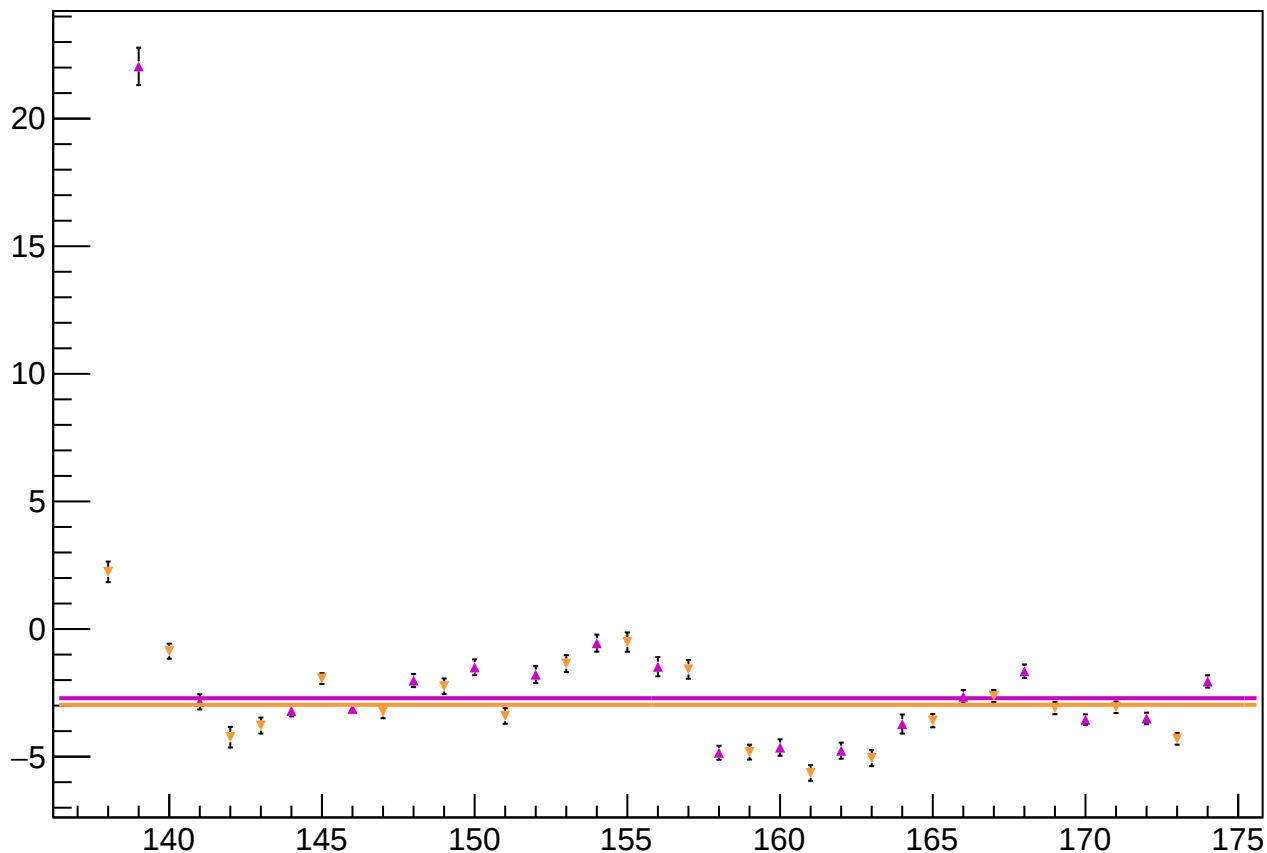
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.303+/-0.088  $\chi^2/\text{NDF}$ :566.2/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.575+/-0.086  $\chi^2/\text{NDF}$ :932.8/17

Left: 1.930+/-0.061  $\chi^2/\text{NDF}$ : 1534.3/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.575+/-0.086  $\chi^2/\text{NDF}$ :932.8/17  
 Out: 2.303+/-0.088  $\chi^2/\text{NDF}$ :566.2/18  
 All: 1.930+/-0.061  $\chi^2/\text{NDF}$ : 1534.3/36

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



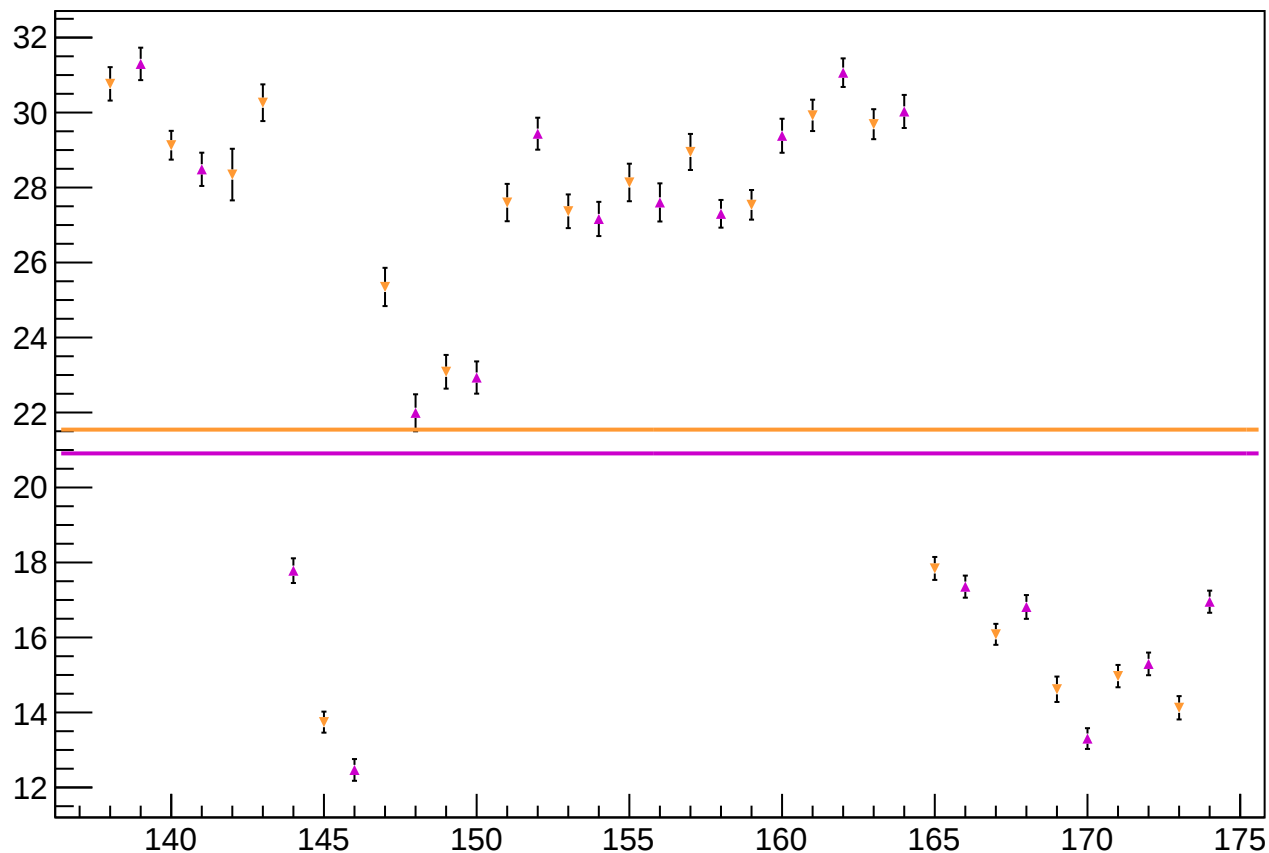
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.968+/-0.065  $\chi^2/\text{NDF}$ : 548.7/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.709+/-0.065  $\chi^2/\text{NDF}$ : 1437.8/17

Left: -2.838+/-0.046  $\chi^2/\text{NDF}$ : 1994.6/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.709+/-0.065  $\chi^2/\text{NDF}$ : 1437.8/17  
 Out: -2.968+/-0.065  $\chi^2/\text{NDF}$ : 548.7/18

All: -2.838+/-0.046  $\chi^2/\text{NDF}$ : 1994.6/36

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



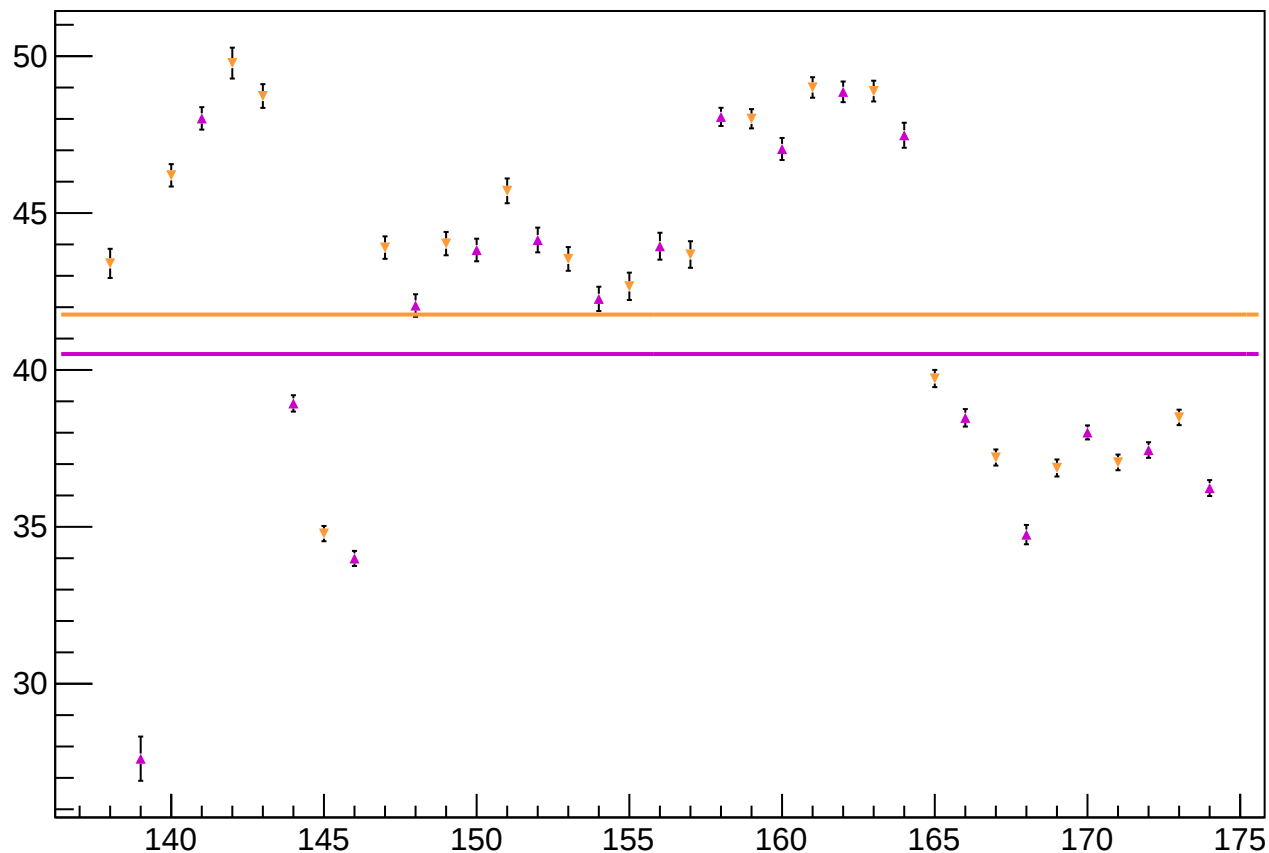
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 21.544 $\pm$ 0.088  $\chi^2$ /NDF:5848.9/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 20.909 $\pm$ 0.086  $\chi^2$ /NDF:5969.4/17

Left: 21.218 $\pm$ 0.061  $\chi^2$ /NDF: 11845.0/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 20.909 $\pm$ 0.086  $\chi^2$ /NDF:5969.4/17  
 Out: 21.544 $\pm$ 0.088  $\chi^2$ /NDF:5848.9/18

All: 21.218 $\pm$ 0.061  $\chi^2$ /NDF: 11845.0/36

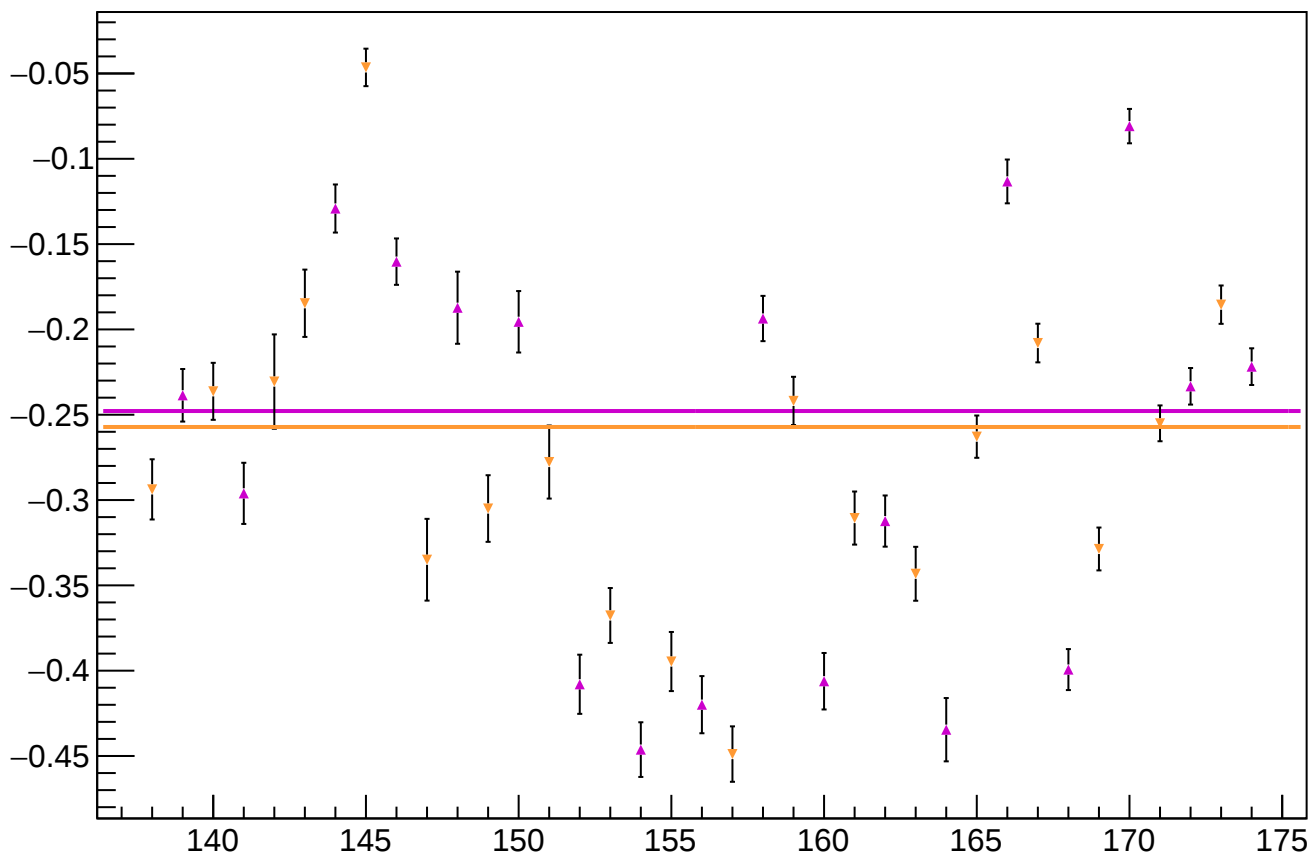
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 41.766+/-0.074  $\chi^2/\text{NDF}$ :4405.0/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 40.508+/-0.073  $\chi^2/\text{NDF}$ :4756.0/17

Left: 41.132+/-0.052  $\chi^2/\text{NDF}$ : 9307.3/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 40.508+/-0.073  $\chi^2/\text{NDF}$ :4756.0/17  
 Out: 41.766+/-0.074  $\chi^2/\text{NDF}$ :4405.0/18  
 All: 41.132+/-0.052  $\chi^2/\text{NDF}$ : 9307.3/36

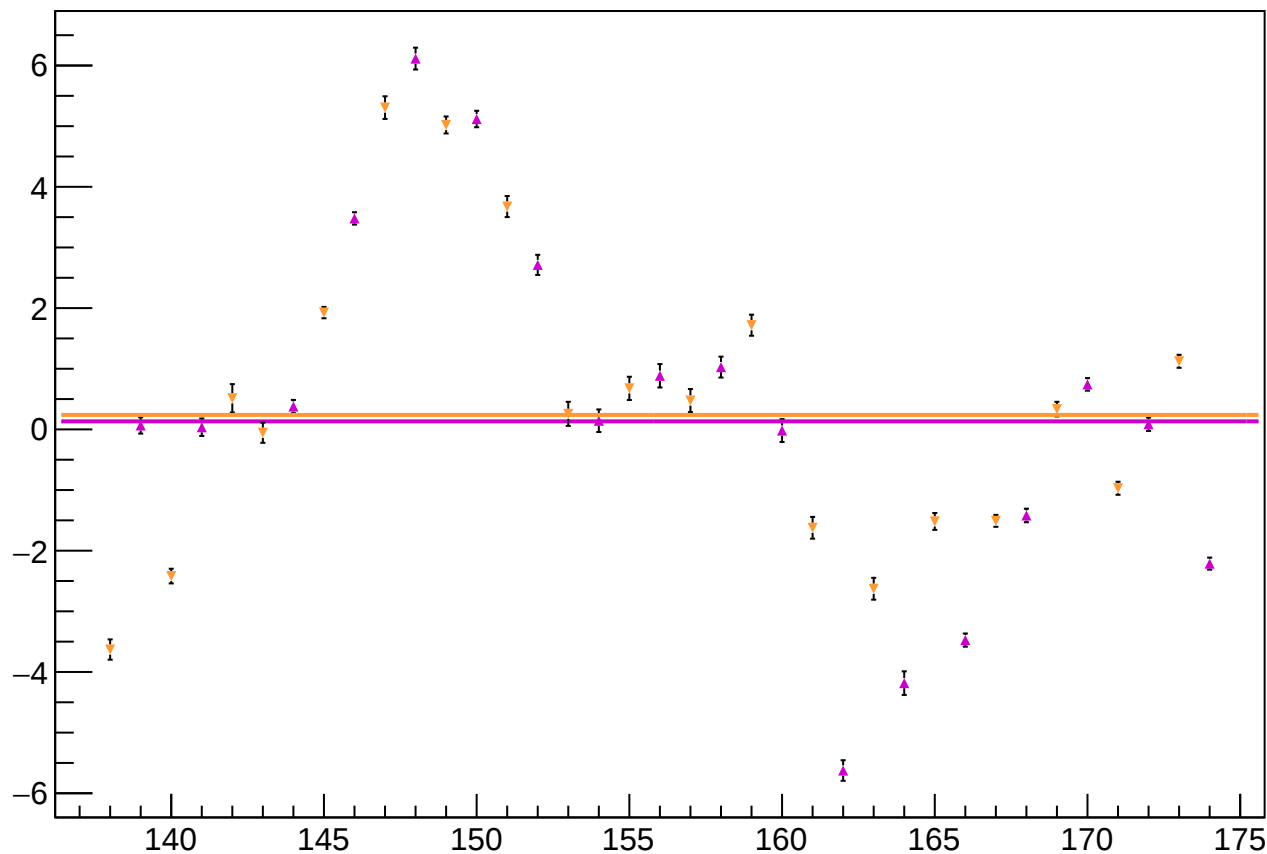
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.257+/-0.003  $\chi^2/\text{NDF}$ : 790.0/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.248+/-0.003  $\chi^2/\text{NDF}$ : 1260.1/17

Left: -0.252+/-0.002  $\chi^2/\text{NDF}$ : 2054.0/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.248+/-0.003  $\chi^2/\text{NDF}$ : 1260.1/17  
 Out: -0.257+/-0.003  $\chi^2/\text{NDF}$ : 790.0/18  
 All: -0.252+/-0.002  $\chi^2/\text{NDF}$ : 2054.0/36

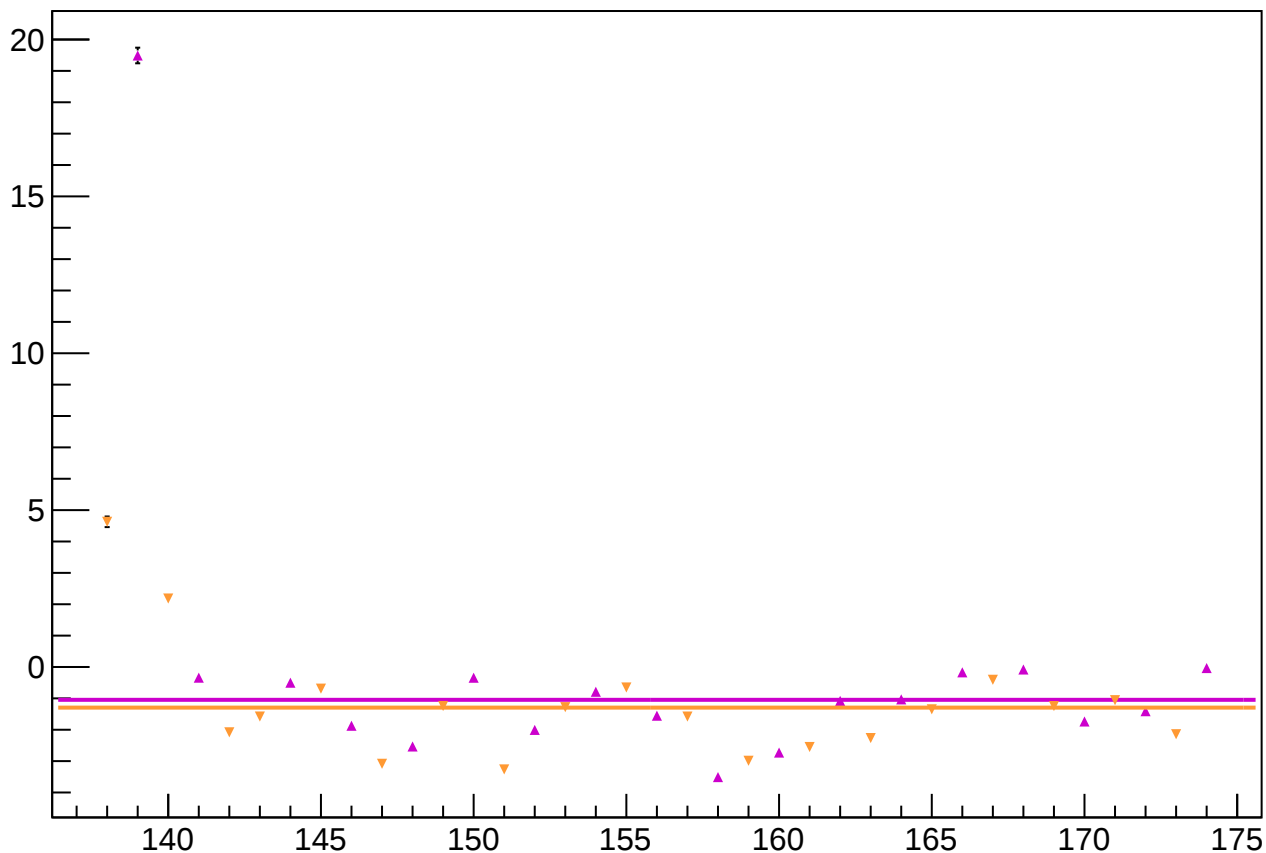
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.239+/-0.032  $\chi^2/\text{NDF}$ :4744.4/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.133+/-0.031  $\chi^2/\text{NDF}$ :7332.9/17

Left: 0.184+/-0.022  $\chi^2/\text{NDF}$ : 12082.9/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.133+/-0.031  $\chi^2/\text{NDF}$ :7332.9/17  
 Out: 0.239+/-0.032  $\chi^2/\text{NDF}$ :4744.4/18  
 All: 0.184+/-0.022  $\chi^2/\text{NDF}$ : 12082.9/36

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



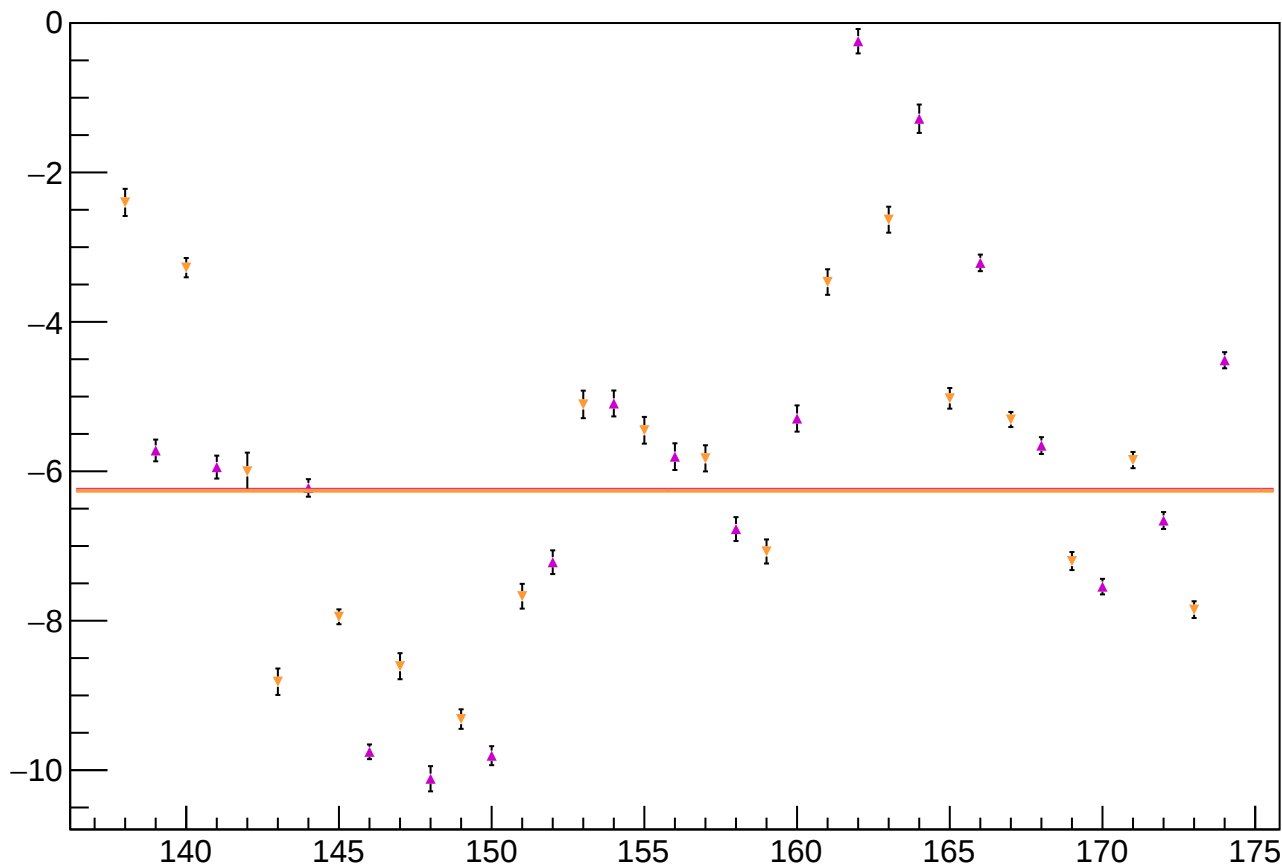
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-1.295 \pm 0.024$   $\chi^2/\text{NDF}: 3900.3/18$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-1.046 \pm 0.024$   $\chi^2/\text{NDF}: 8481.9/17$

Left:  $-1.169 \pm 0.017$   $\chi^2/\text{NDF}: 12437.2/36$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-1.046 \pm 0.024$   $\chi^2/\text{NDF}: 8481.9/17$   
 Out:  $-1.295 \pm 0.024$   $\chi^2/\text{NDF}: 3900.3/18$

All:  $-1.169 \pm 0.017$   $\chi^2/\text{NDF}: 12437.2/36$

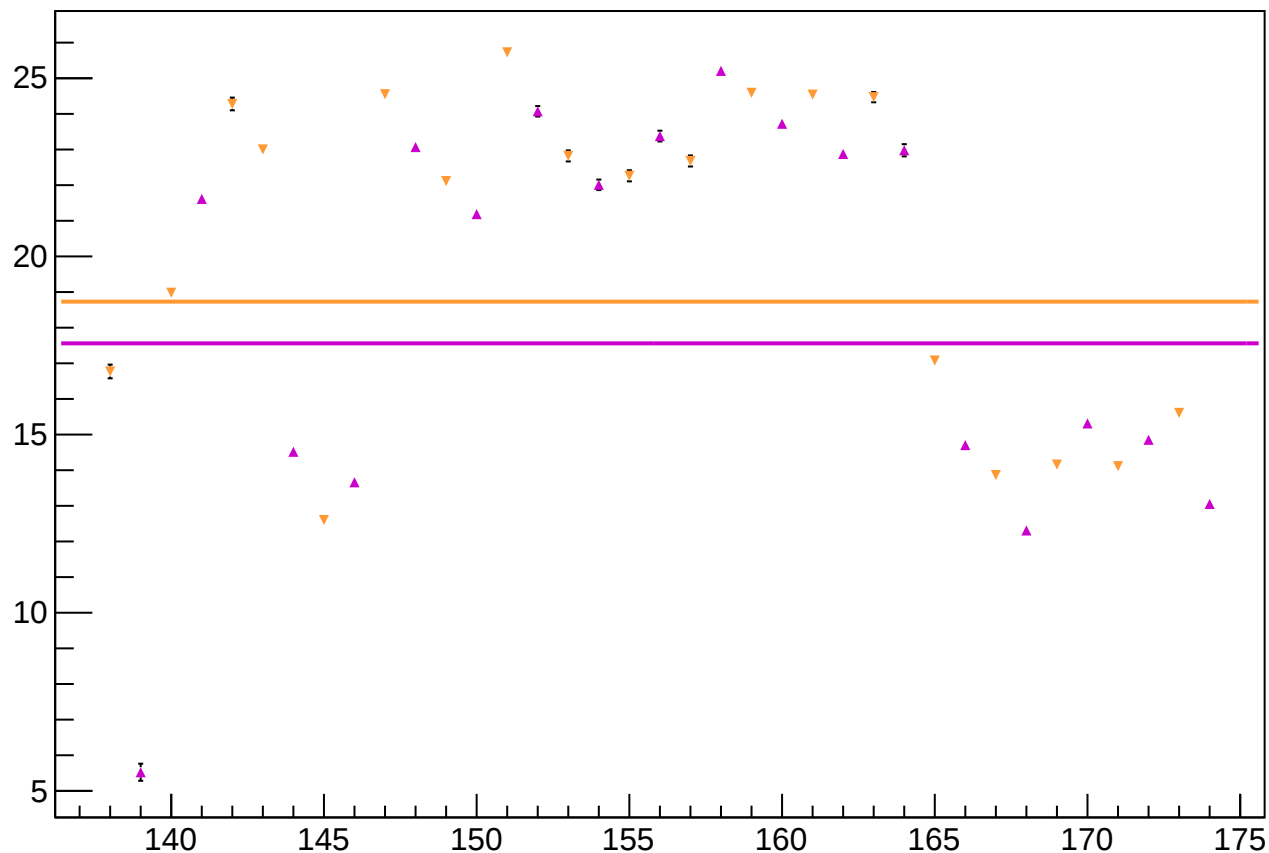
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.259+/-0.032  $\chi^2/\text{NDF}$ : 3522.8/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.248+/-0.031  $\chi^2/\text{NDF}$ : 5961.4/17

Left: -6.254+/-0.023  $\chi^2/\text{NDF}$ : 9484.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.248+/-0.031  $\chi^2/\text{NDF}$ : 5961.4/17  
 Out: -6.259+/-0.032  $\chi^2/\text{NDF}$ : 3522.8/18  
 All: -6.254+/-0.023  $\chi^2/\text{NDF}$ : 9484.2/36

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 18.731+/-0.027  $\chi^2/\text{NDF}$ :29402.3/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 17.560+/-0.027  $\chi^2/\text{NDF}$ :29506.1/17

Left: 18.138+/-0.019  $\chi^2/\text{NDF}$ : 59841.5/36

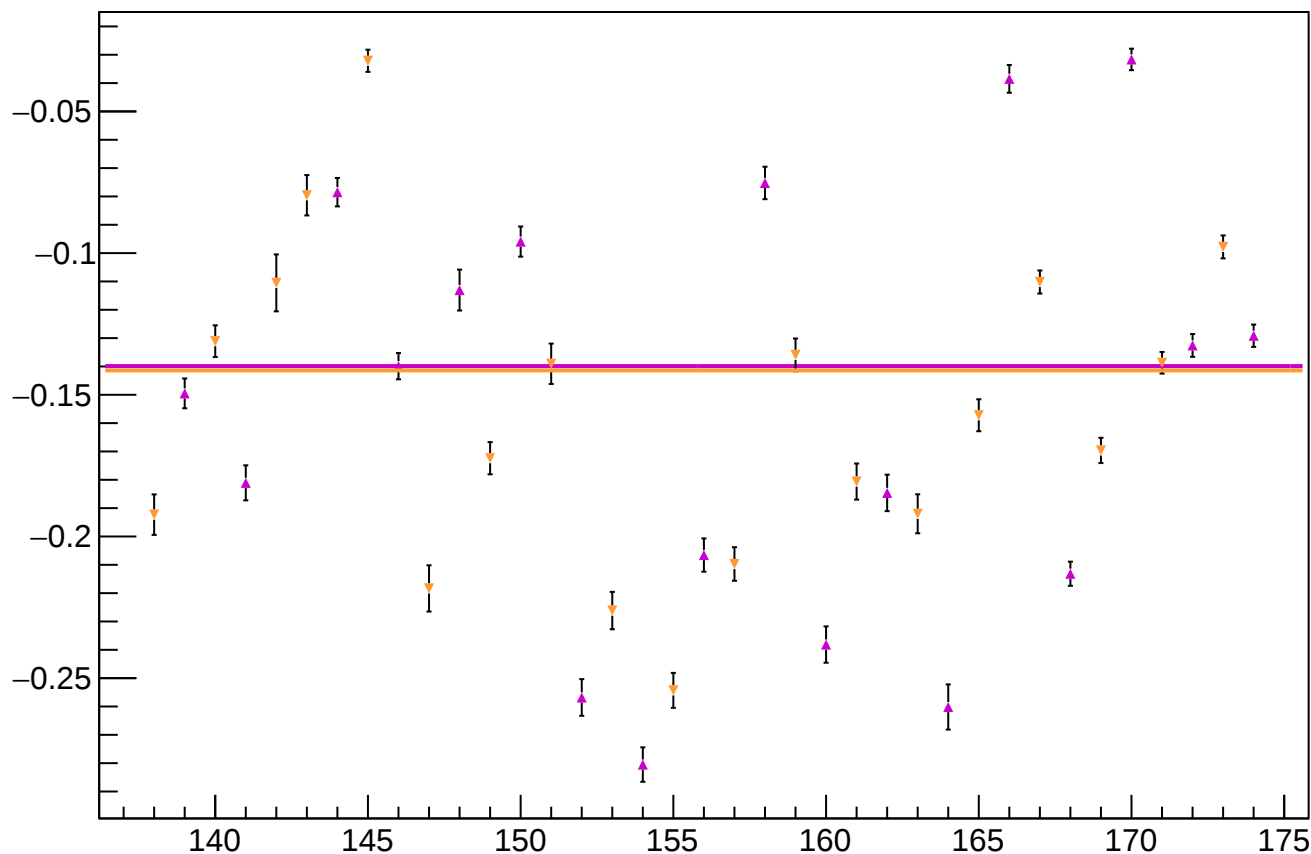
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.560+/-0.027  $\chi^2/\text{NDF}$ :29506.1/17

Out: 18.731+/-0.027  $\chi^2/\text{NDF}$ :29402.3/18

All: 18.138+/-0.019  $\chi^2/\text{NDF}$ : 59841.5/36

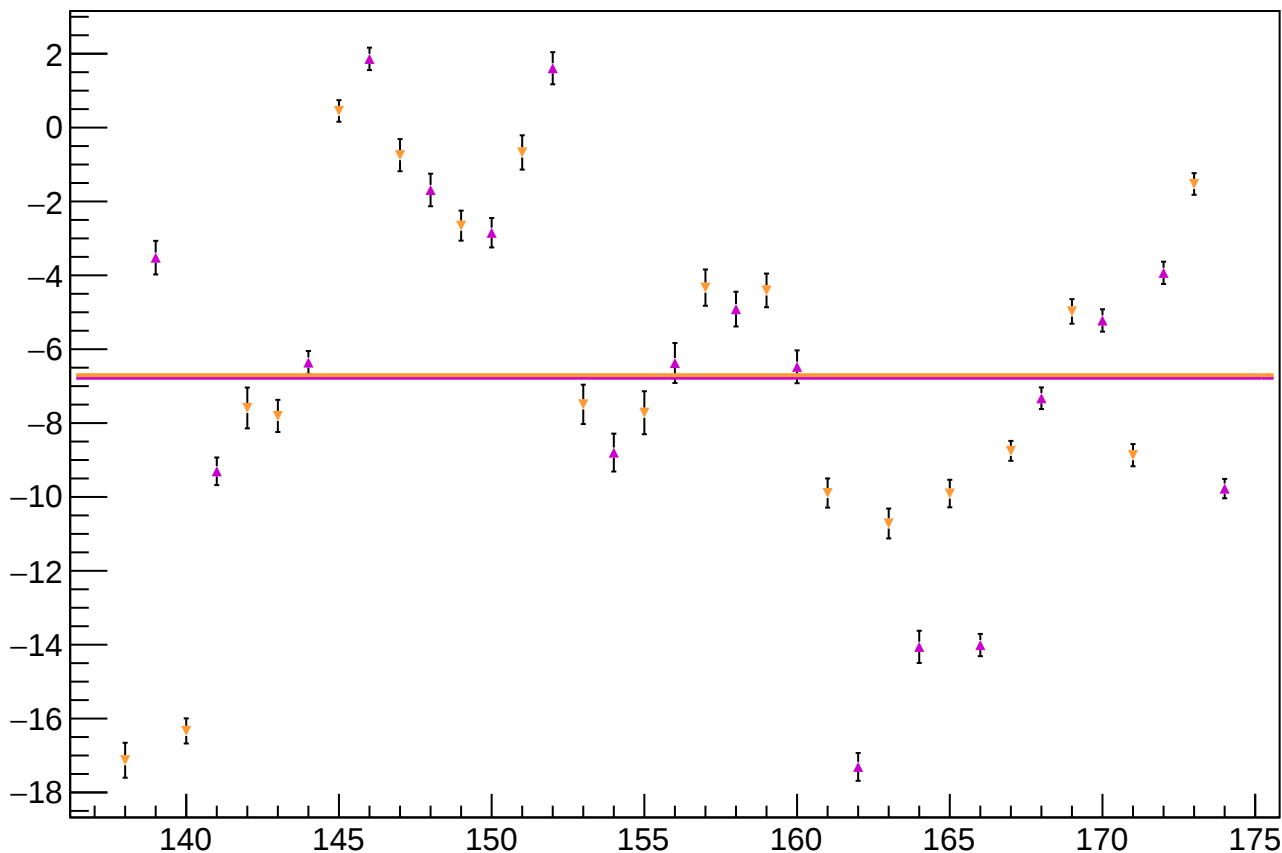
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.141 $\pm$ 0.001  $\chi^2$ /NDF:1989.0/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.140 $\pm$ 0.001  $\chi^2$ /NDF:3457.1/17

Left: -0.141 $\pm$ 0.001  $\chi^2$ /NDF: 5446.9/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.140 $\pm$ 0.001  $\chi^2$ /NDF:3457.1/17  
 Out: -0.141 $\pm$ 0.001  $\chi^2$ /NDF:1989.0/18  
 All: -0.141 $\pm$ 0.001  $\chi^2$ /NDF: 5446.9/36

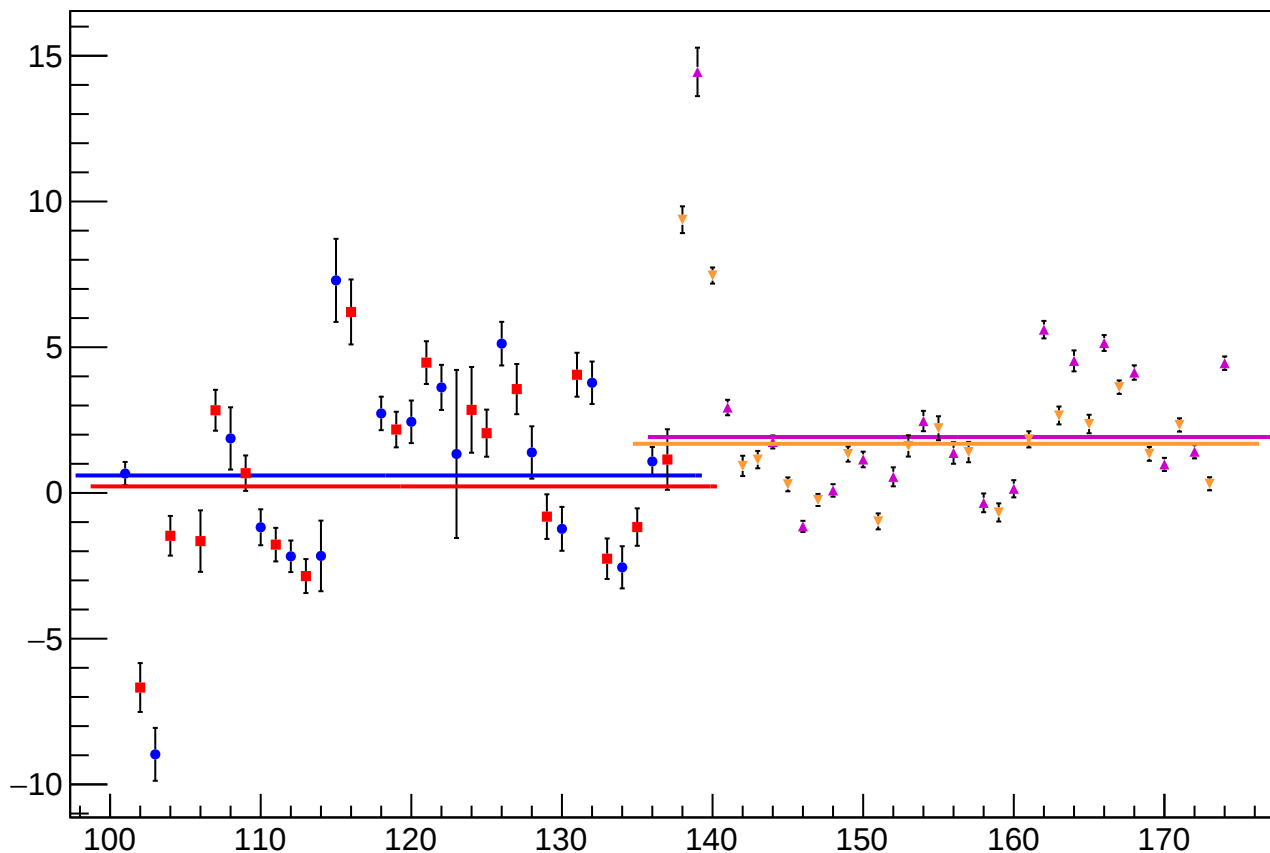
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.703+/-0.088  $\chi^2/\text{NDF}$ :3091.7/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.771+/-0.085  $\chi^2/\text{NDF}$ :3429.3/17

Left: -6.738+/-0.061  $\chi^2/\text{NDF}$ : 6521.2/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.771+/-0.085  $\chi^2/\text{NDF}$ :3429.3/17  
 Out: -6.703+/-0.088  $\chi^2/\text{NDF}$ :3091.7/18  
 All: -6.738+/-0.061  $\chi^2/\text{NDF}$ : 6521.2/36

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:  $1.687 \pm 0.064$   $\chi^2/\text{NDF}$ : 1133.9/18

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

Left In:  $1.919 \pm 0.063$   $\chi^2/\text{NDF}$ : 1252.9/17

Left:  $1.804 \pm 0.045$   $\chi^2/\text{NDF}$ : 2393.5/36

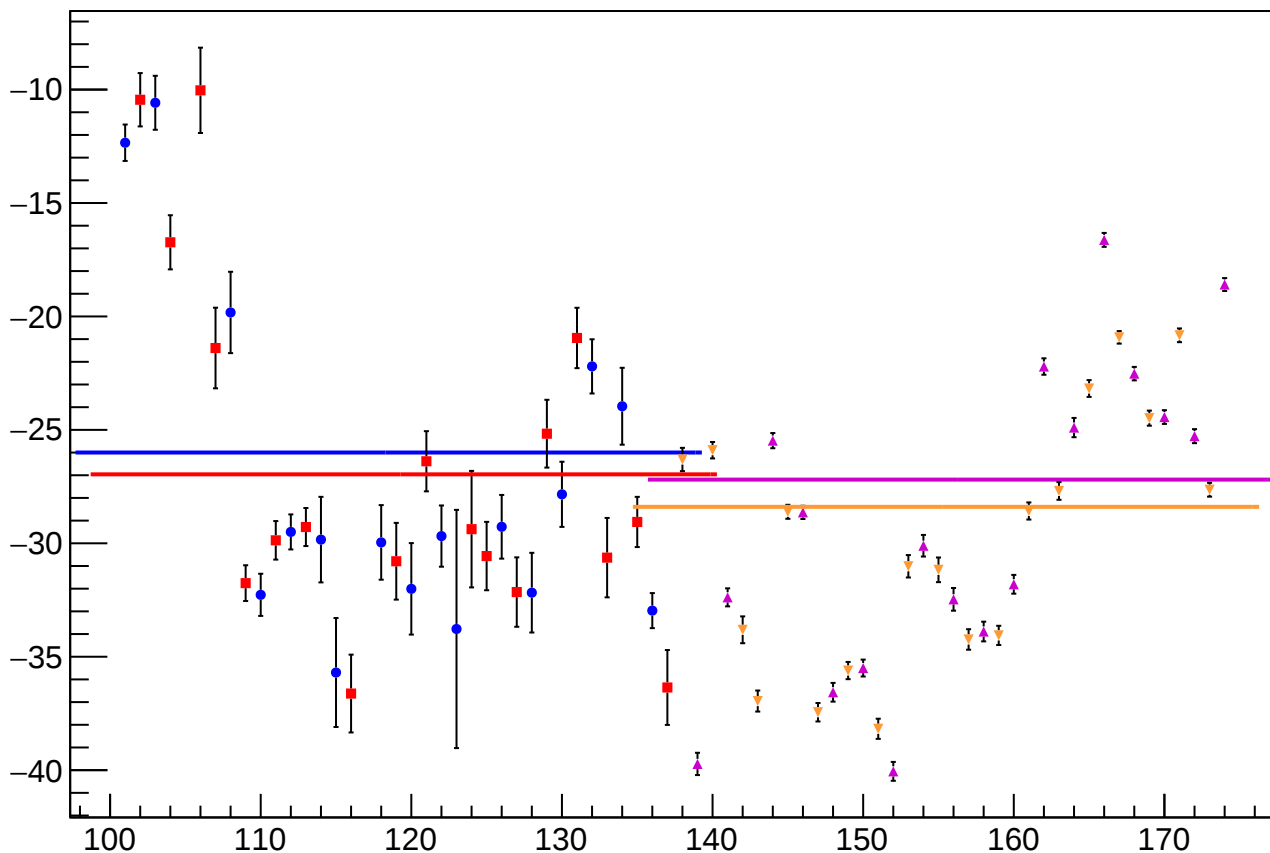
Right:  $0.418 \pm 0.122$   $\chi^2/\text{NDF}$ : 567.5/34

In:  $1.757 \pm 0.059$   $\chi^2/\text{NDF}$ : 1598.1/34

Out:  $1.516 \pm 0.060$   $\chi^2/\text{NDF}$ : 1468.9/36

All:  $1.638 \pm 0.042$   $\chi^2/\text{NDF}$ : 3075.3/71

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:  $-28.392 \pm 0.088$   $\chi^2/\text{NDF}$ : 3933.9/18

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

Left In:  $-27.193 \pm 0.085$   $\chi^2/\text{NDF}$ : 6034.7/17

Left:  $-27.774 \pm 0.061$   $\chi^2/\text{NDF}$ : 10065.1/36

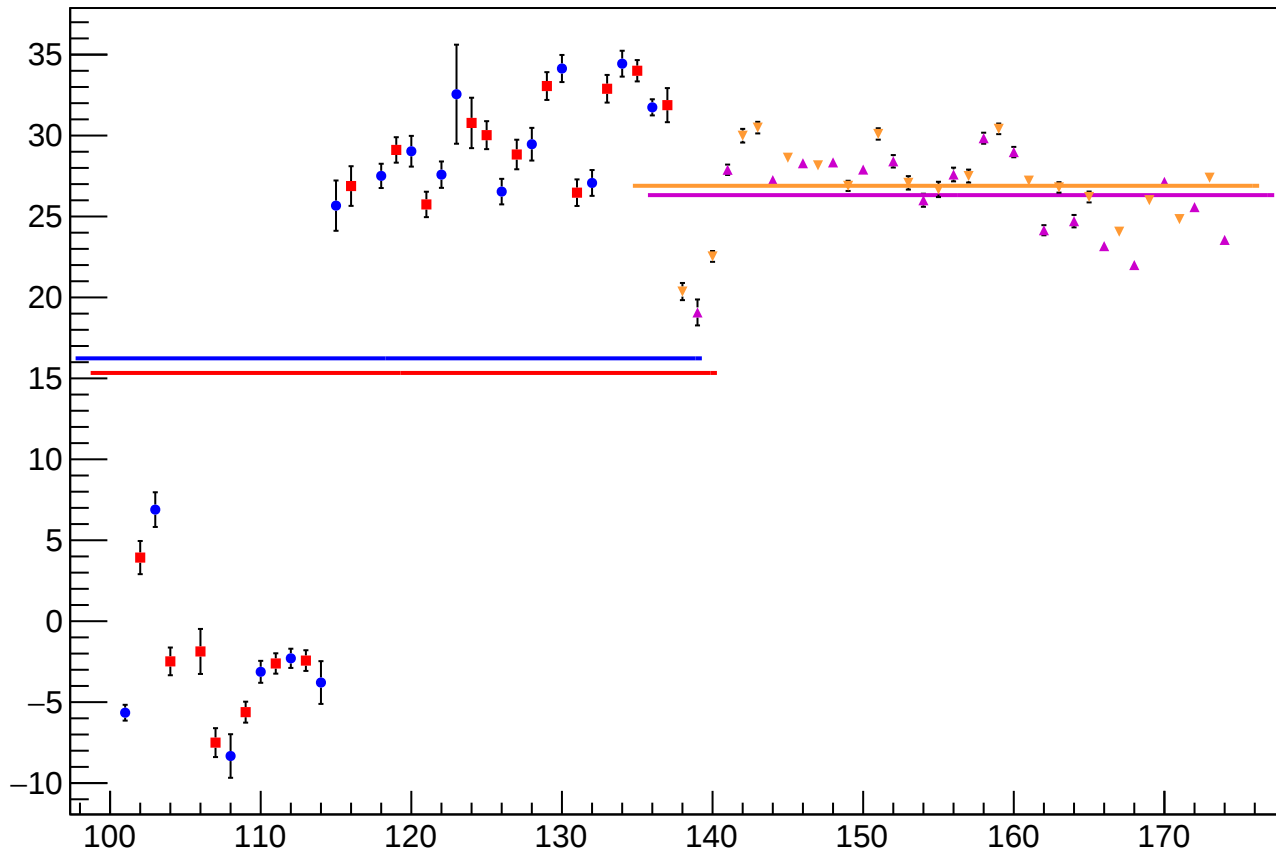
Right:  $-26.482 \pm 0.212$   $\chi^2/\text{NDF}$ : 1233.2/34

In:  $-27.104 \pm 0.082$   $\chi^2/\text{NDF}$ : 6742.0/34

Out:  $-28.278 \pm 0.084$   $\chi^2/\text{NDF}$ : 4490.5/36

All:  $-27.675 \pm 0.059$   $\chi^2/\text{NDF}$ : 11332.7/71

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: 26.897 $\pm$ 0.073  $\chi^2$ /NDF:948.3/18

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

Left In: 26.320 $\pm$ 0.072  $\chi^2$ /NDF:1026.0/17

Left: 26.606 $\pm$ 0.051  $\chi^2$ /NDF: 2005.8/36

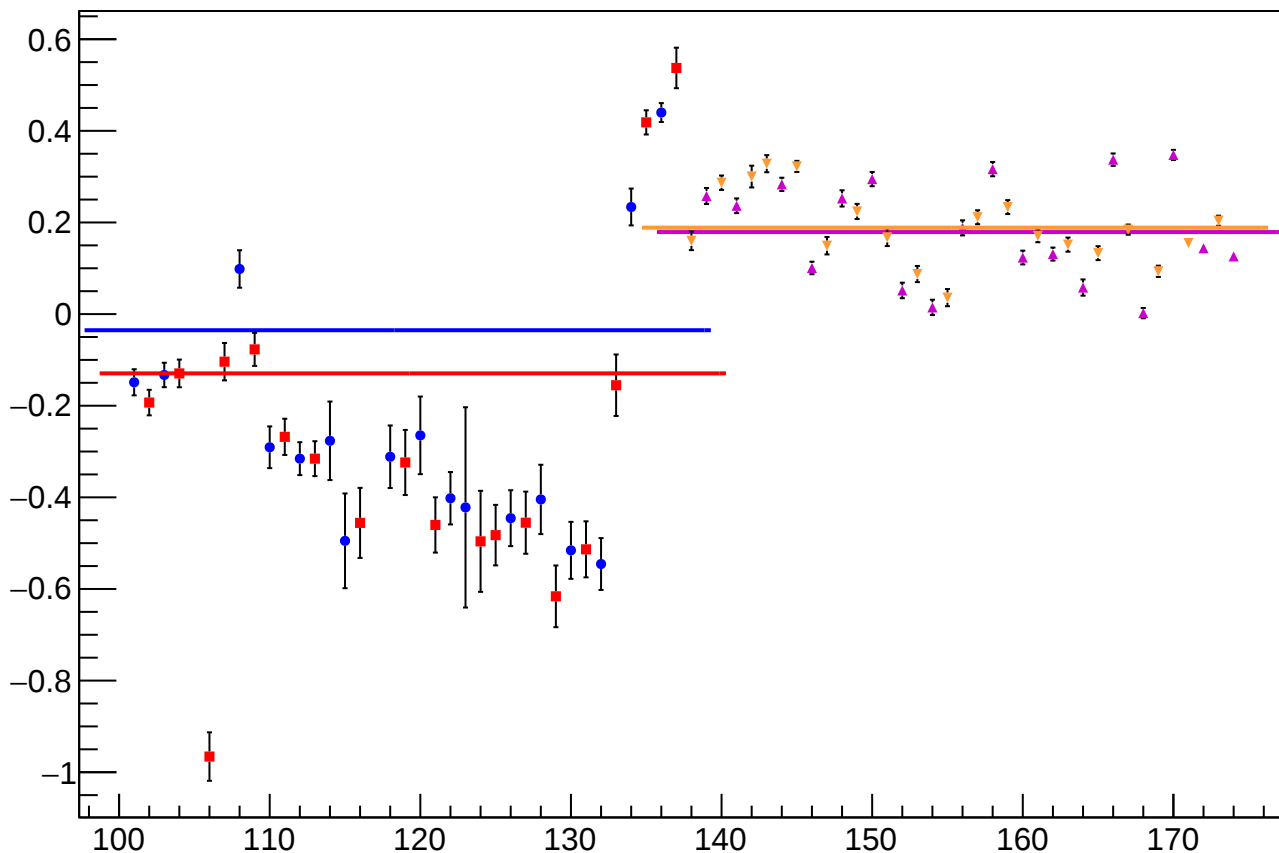
Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14850.4/34

In: 25.059 $\pm$ 0.068  $\chi^2$ /NDF:11034.4/34

Out: 25.502 $\pm$ 0.068  $\chi^2$ /NDF:11232.0/36

All: 25.278 $\pm$ 0.048  $\chi^2$ /NDF: 22287.6/71

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:  $0.189 \pm 0.003$   $\chi^2/\text{NDF}$ : 452.8/18

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

Left In:  $0.179 \pm 0.003$   $\chi^2/\text{NDF}$ : 1147.0/17

Left:  $0.184 \pm 0.002$   $\chi^2/\text{NDF}$ : 1604.0/36

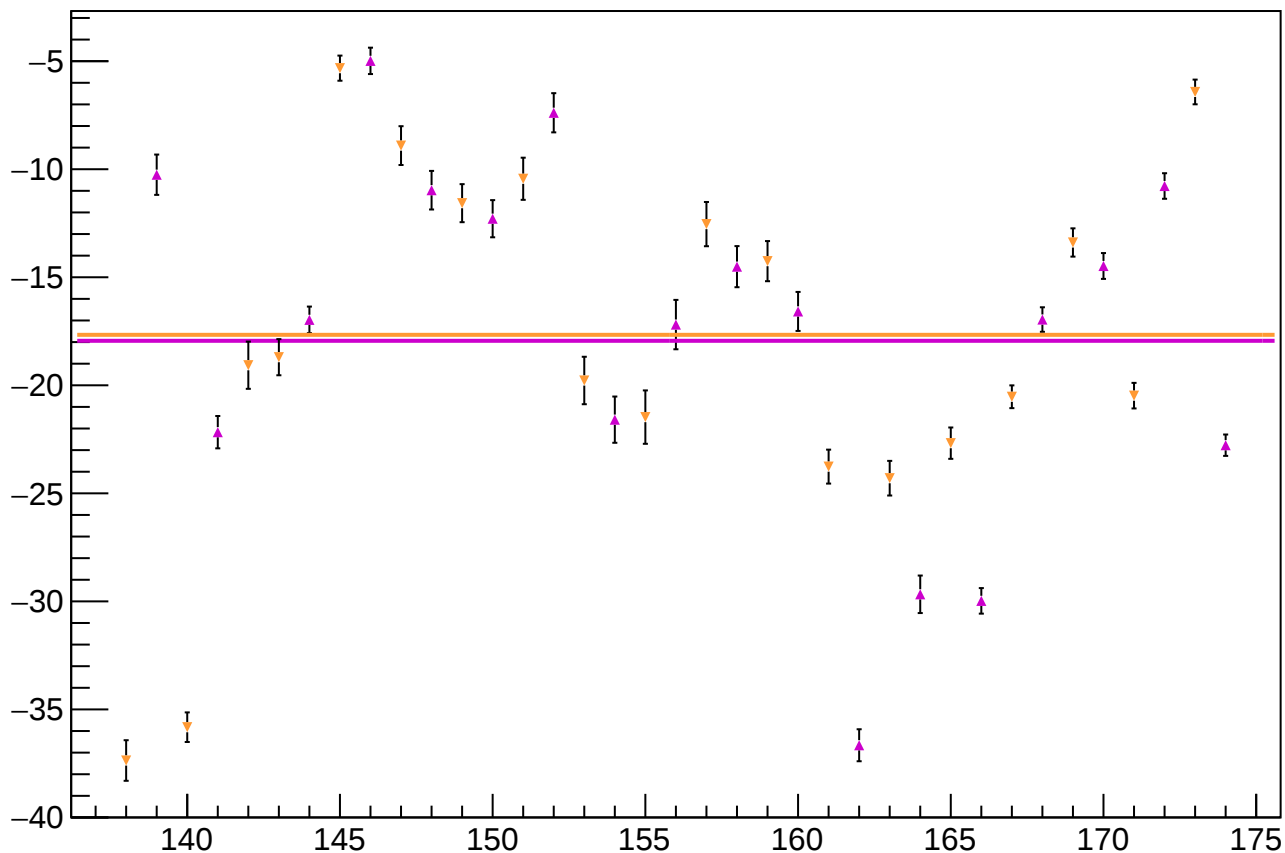
Right:  $-0.082 \pm 0.007$   $\chi^2/\text{NDF}$ : 2216.5/34

In:  $0.159 \pm 0.003$   $\chi^2/\text{NDF}$ : 2551.5/34

Out:  $0.158 \pm 0.003$   $\chi^2/\text{NDF}$ : 2461.7/36

All:  $0.159 \pm 0.002$   $\chi^2/\text{NDF}$ : 5013.2/71

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: -17.664+/-0.175  $\chi^2/\text{NDF}$ :2504.7/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -17.941+/-0.169  $\chi^2/\text{NDF}$ :2333.6/17

Left: -17.807+/-0.122  $\chi^2/\text{NDF}$ : 4839.6/36

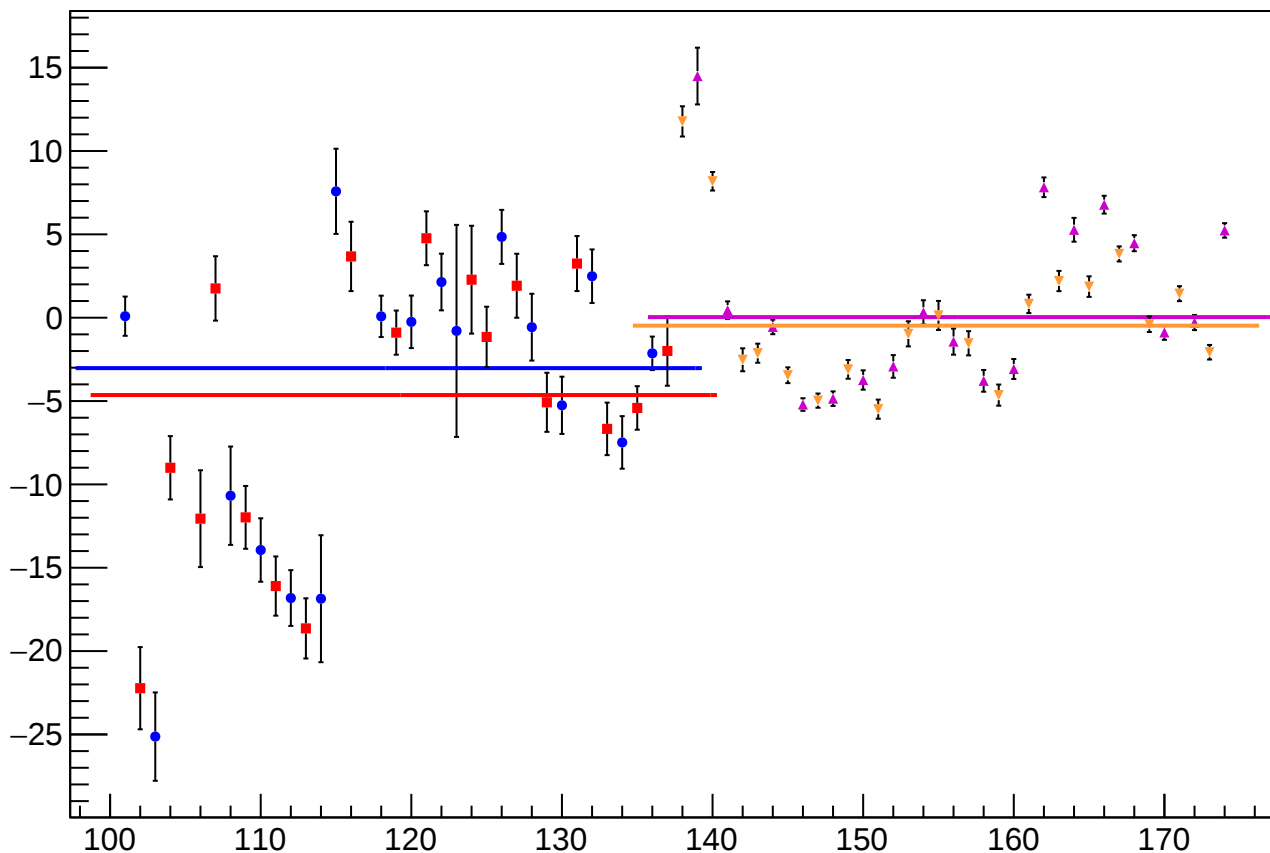
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.941+/-0.169  $\chi^2/\text{NDF}$ :2333.6/17

Out: -17.664+/-0.175  $\chi^2/\text{NDF}$ :2504.7/18

All: -17.807+/-0.122  $\chi^2/\text{NDF}$ : 4839.6/36

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:  $-0.478 \pm 0.127$   $\chi^2/\text{NDF}$ : 900.3/18

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

Left In:  $0.035 \pm 0.126$   $\chi^2/\text{NDF}$ : 1139.5/17

Left:  $-0.218 \pm 0.090$   $\chi^2/\text{NDF}$ : 2048.0/36

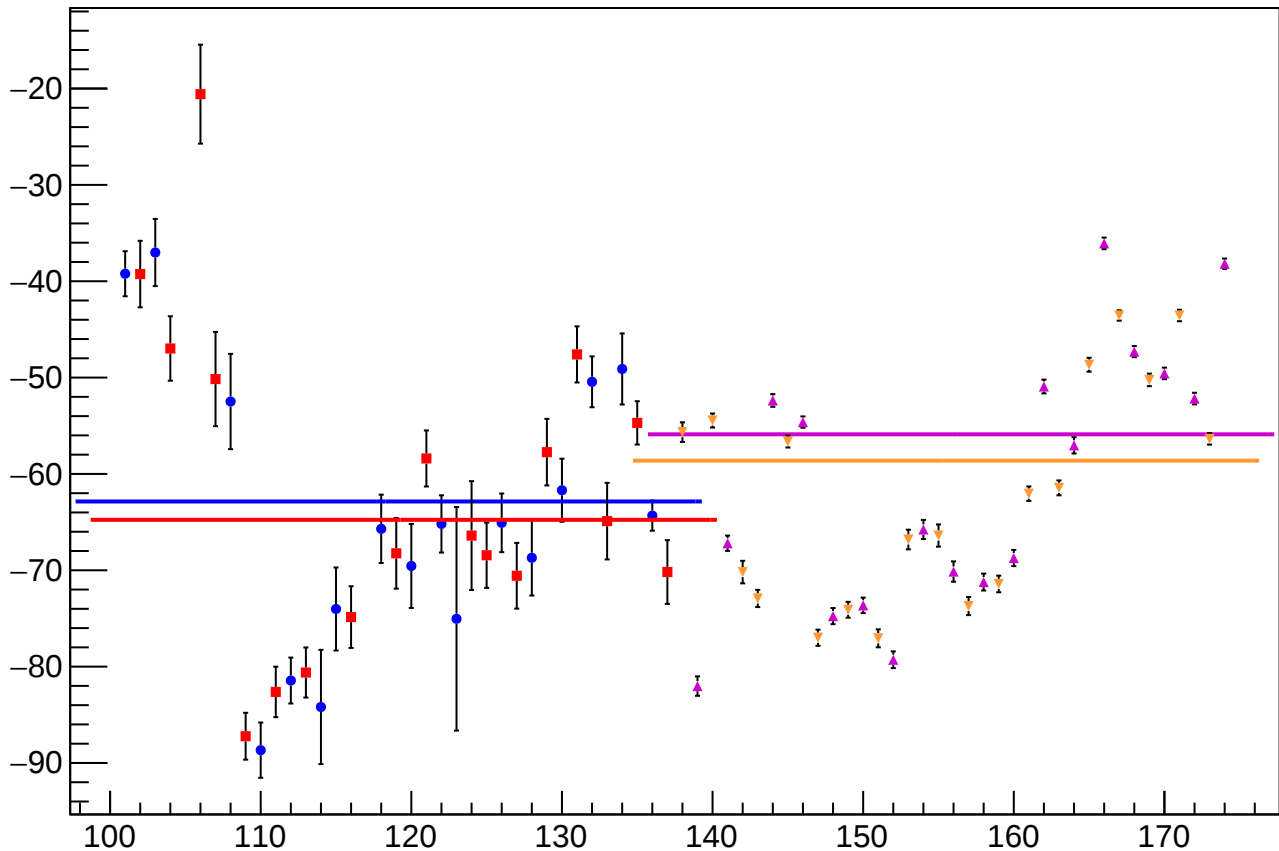
Right:  $-3.797 \pm 0.295$   $\chi^2/\text{NDF}$ : 583.0/34

In:  $-0.231 \pm 0.120$   $\chi^2/\text{NDF}$ : 1471.5/34

Out:  $-0.819 \pm 0.122$   $\chi^2/\text{NDF}$ : 1282.5/36

All:  $-0.520 \pm 0.086$   $\chi^2/\text{NDF}$ : 2765.8/71

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:  $-58.621 \pm 0.175$   $\chi^2/\text{NDF}: 4043.1/18$

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}: 416.1/17$

Left In:  $-55.889 \pm 0.169$   $\chi^2/\text{NDF}: 6039.9/17$

Left:  $-57.207 \pm 0.122$   $\chi^2/\text{NDF}: 10208.4/36$

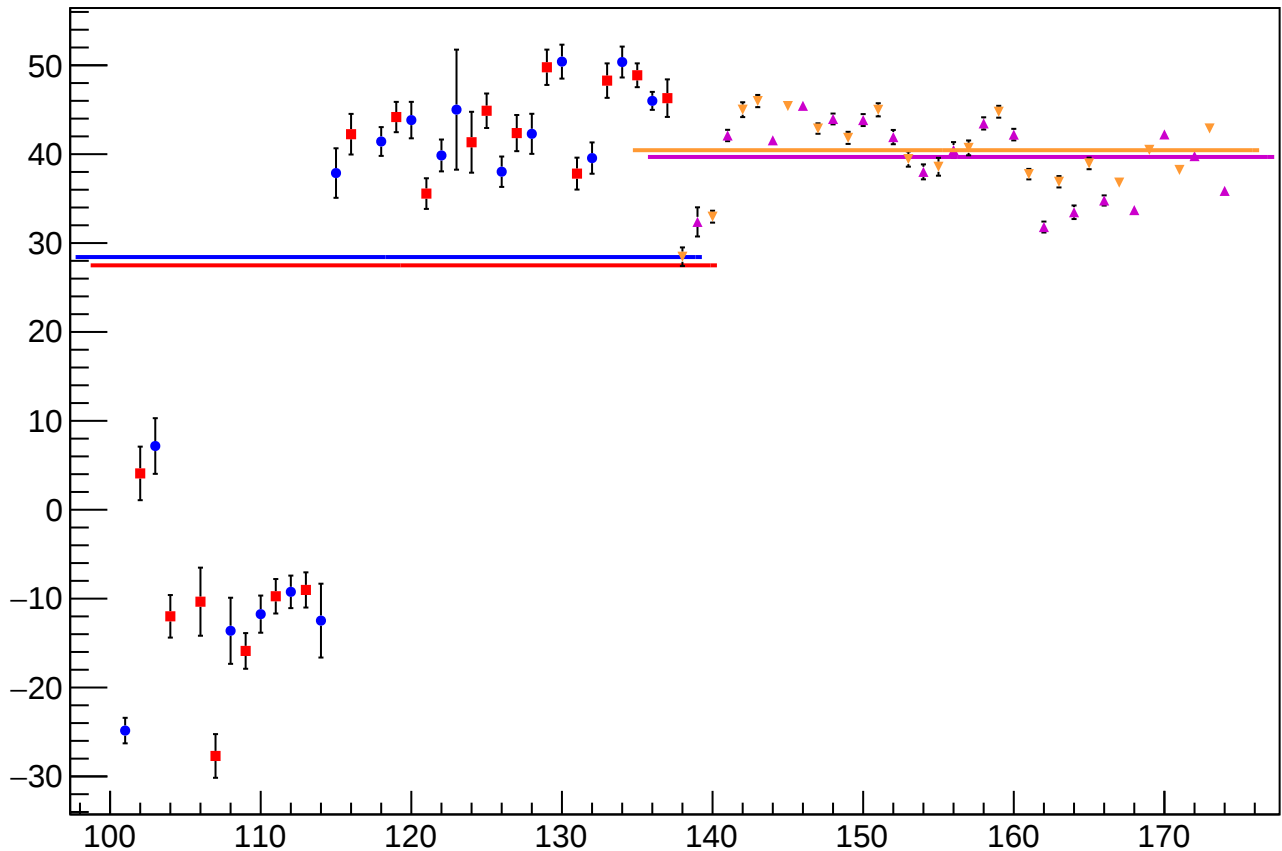
Right:  $-63.792 \pm 0.527$   $\chi^2/\text{NDF}: 787.1/34$

In:  $-56.237 \pm 0.165$   $\chi^2/\text{NDF}: 6492.1/34$

Out:  $-58.937 \pm 0.171$   $\chi^2/\text{NDF}: 4522.3/36$

All:  $-57.541 \pm 0.119$   $\chi^2/\text{NDF}: 11143.4/71$

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: 40.447 $\pm$ 0.146  $\chi^2$ /NDF:695.9/18

Right Out: 27.493 $\pm$ 0.479  $\chi^2$ /NDF: 3027.8/17

Left In: 39.686 $\pm$ 0.144  $\chi^2$ /NDF:852.9/17

Left: 40.061 $\pm$ 0.103  $\chi^2$ /NDF: 1562.6/36

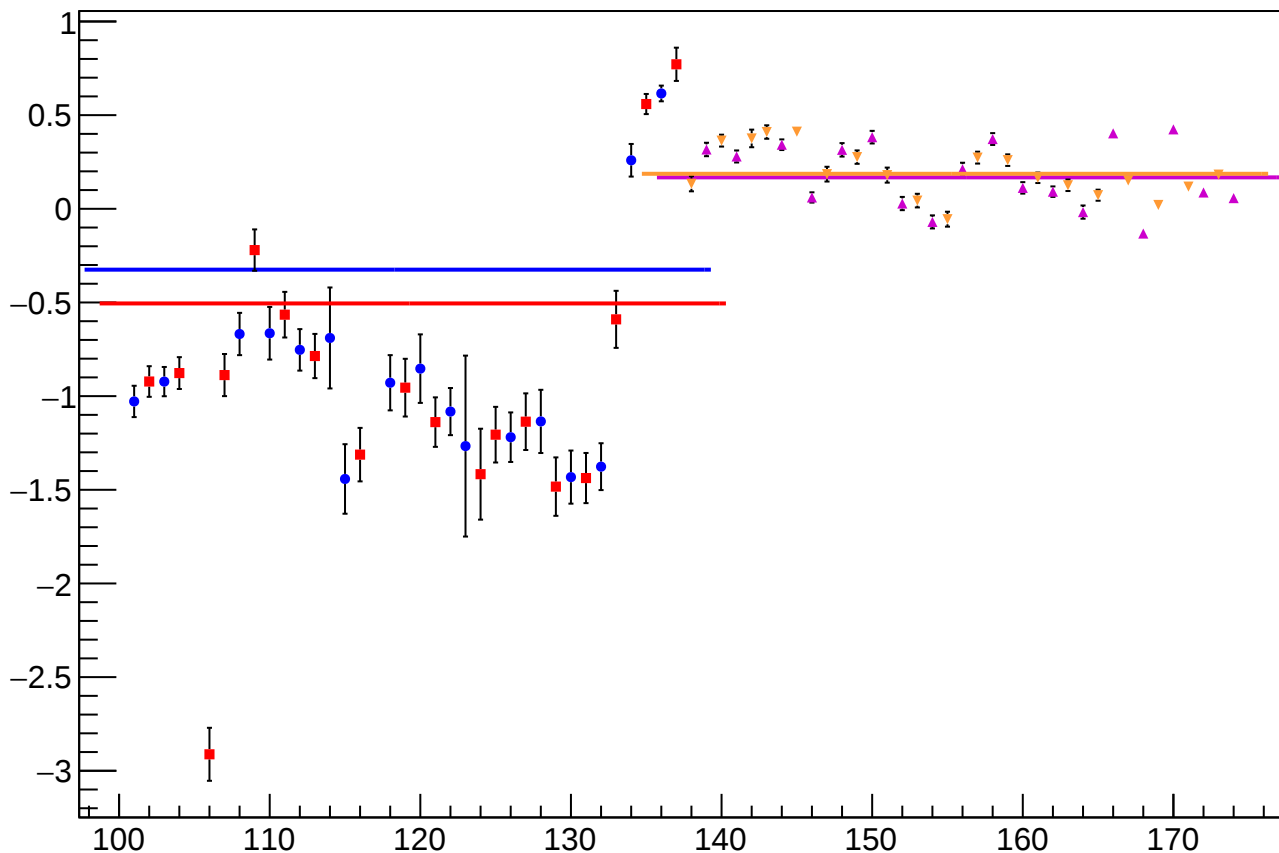
Right: 27.980 $\pm$ 0.331  $\chi^2$ /NDF: 6352.1/34

In: 38.672 $\pm$ 0.137  $\chi^2$ /NDF:4725.8/34

Out: 39.343 $\pm$ 0.140  $\chi^2$ /NDF:4393.5/36

All: 39.002 $\pm$ 0.098  $\chi^2$ /NDF: 9131.0/71

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:  $0.187 \pm 0.007$   $\chi^2/\text{NDF}$ : 325.4/18

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

Left In:  $0.168 \pm 0.007$   $\chi^2/\text{NDF}$ : 735.6/17

Left:  $0.177 \pm 0.005$   $\chi^2/\text{NDF}$ : 1065.1/36

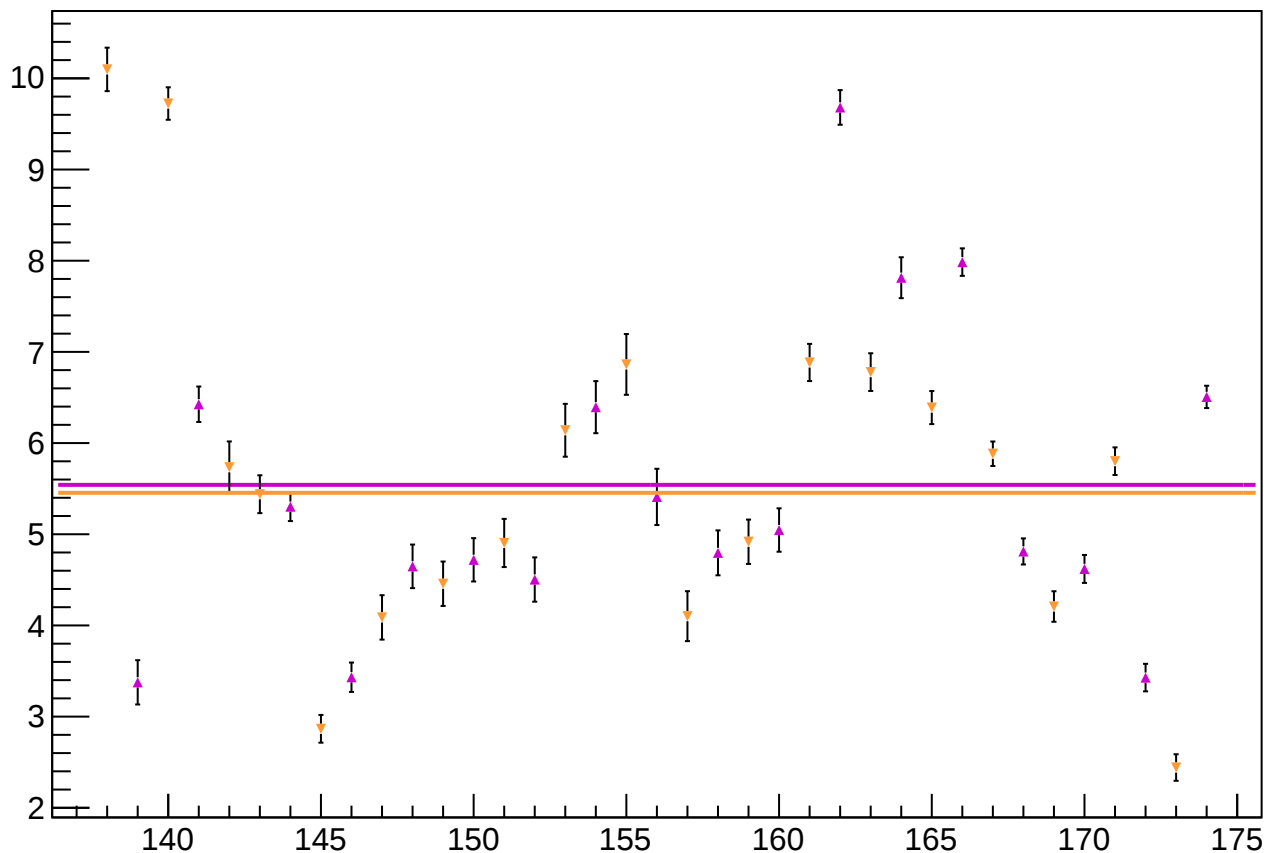
Right:  $-0.412 \pm 0.018$   $\chi^2/\text{NDF}$ : 2200.3/34

In:  $0.135 \pm 0.006$   $\chi^2/\text{NDF}$ : 2112.6/34

Out:  $0.142 \pm 0.007$   $\chi^2/\text{NDF}$ : 2163.4/36

All:  $0.139 \pm 0.005$   $\chi^2/\text{NDF}$ : 4276.5/71

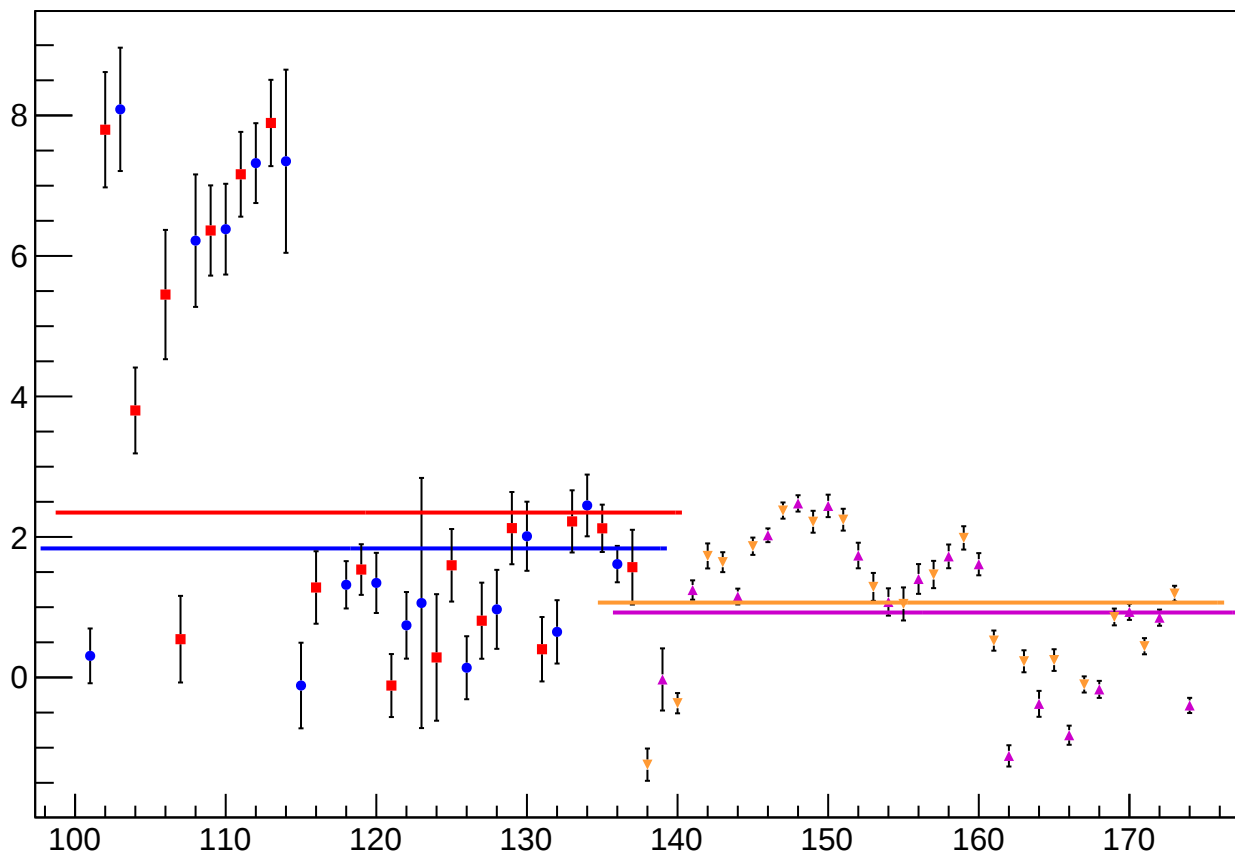
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.454+/-0.045  $\chi^2/\text{NDF}$ :1966.2/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.542+/-0.044  $\chi^2/\text{NDF}$ :1501.3/17

Left: 5.500+/-0.031  $\chi^2/\text{NDF}$ : 3469.3/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.542+/-0.044  $\chi^2/\text{NDF}$ :1501.3/17  
 Out: 5.454+/-0.045  $\chi^2/\text{NDF}$ :1966.2/18  
 All: 5.500+/-0.031  $\chi^2/\text{NDF}$ : 3469.3/36

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.837 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $1.066 \pm 0.033$   $\chi^2/\text{NDF}$ : 757.2/18

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

Left In:  $0.924 \pm 0.033$   $\chi^2/\text{NDF}$ : 1103.9/17

Left:  $0.994 \pm 0.023$   $\chi^2/\text{NDF}$ : 1870.4/36

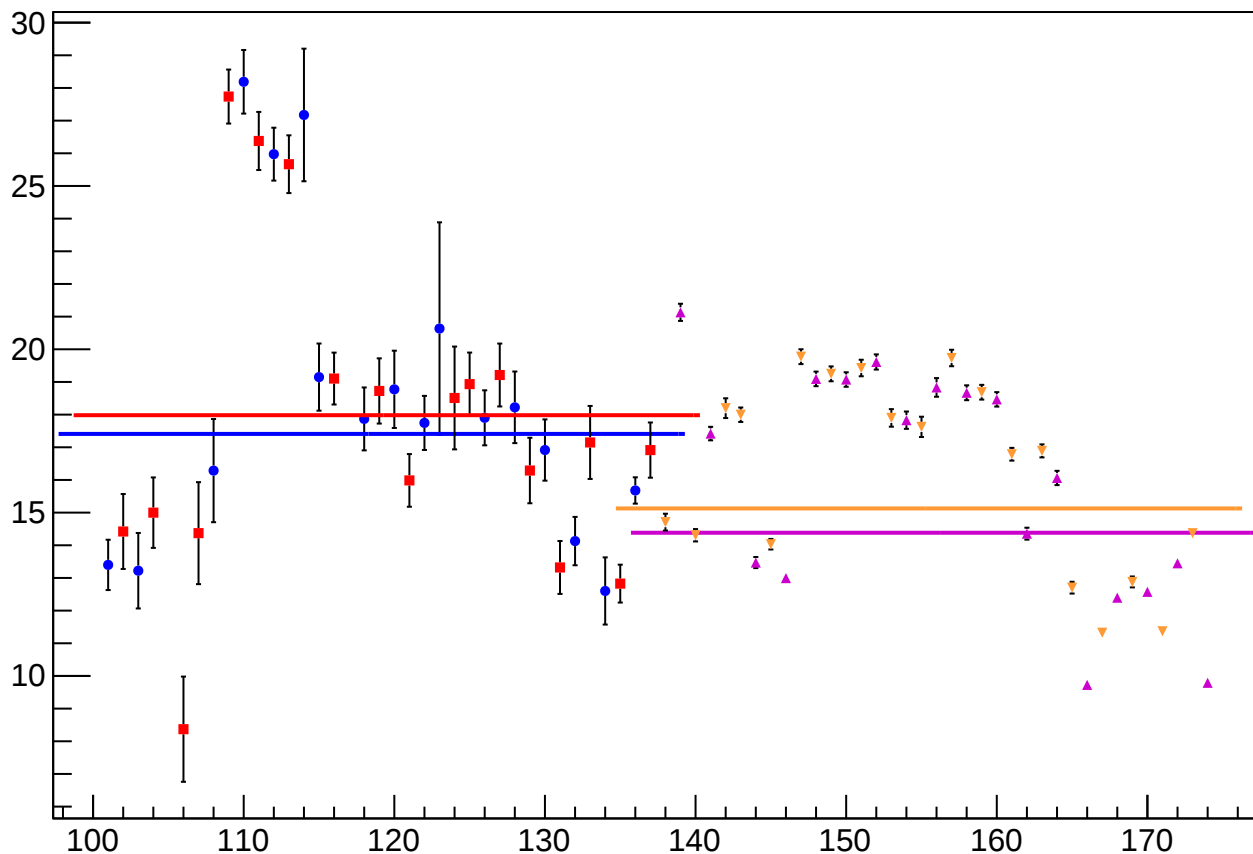
Right:  $2.078 \pm 0.084$   $\chi^2/\text{NDF}$ : 633.0/34

In:  $0.991 \pm 0.031$   $\chi^2/\text{NDF}$ : 1455.2/34

Out:  $1.153 \pm 0.032$   $\chi^2/\text{NDF}$ : 1188.9/36

All:  $1.070 \pm 0.022$   $\chi^2/\text{NDF}$ : 2657.1/71

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: 15.127 $\pm$ 0.045  $\chi^2$ /NDF:4040.3/18

Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17

Left In: 14.384 $\pm$ 0.044  $\chi^2$ /NDF:6025.5/17

Left: 14.742 $\pm$ 0.032  $\chi^2$ /NDF: 10204.5/36

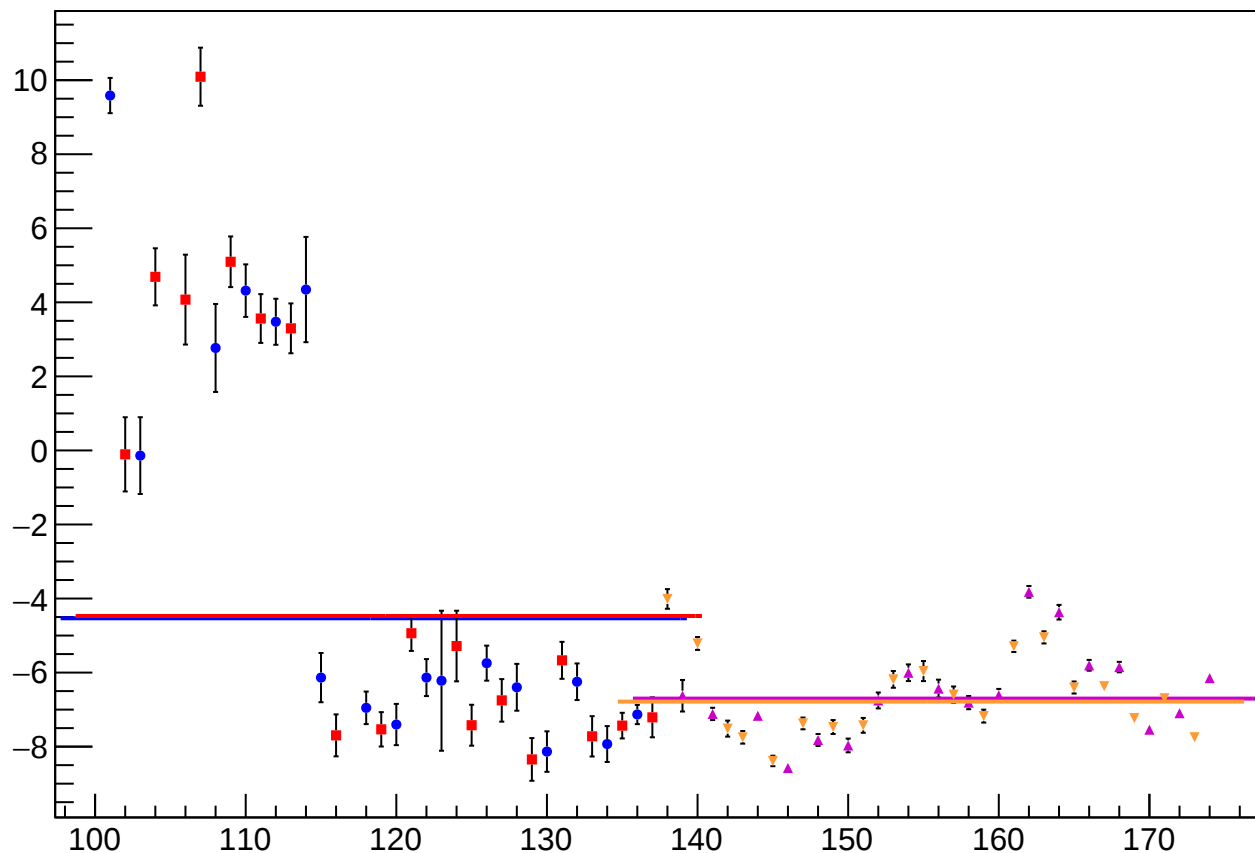
Right: 17.686 $\pm$ 0.152  $\chi^2$ /NDF: 859.3/34

In: 14.508 $\pm$ 0.043  $\chi^2$ /NDF:6585.9/34

Out: 15.245 $\pm$ 0.045  $\chi^2$ /NDF:4693.5/36

All: 14.863 $\pm$ 0.031  $\chi^2$ /NDF: 11421.6/71

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-4.533 \pm 0.130$   $\chi^2/\text{NDF}$ : 1588.4/16

Left Out:  $-6.784 \pm 0.038$   $\chi^2/\text{NDF}$ : 717.8/18

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

Left In:  $-6.703 \pm 0.037$   $\chi^2/\text{NDF}$ : 978.8/17

Left:  $-6.743 \pm 0.027$   $\chi^2/\text{NDF}$ : 1698.9/36

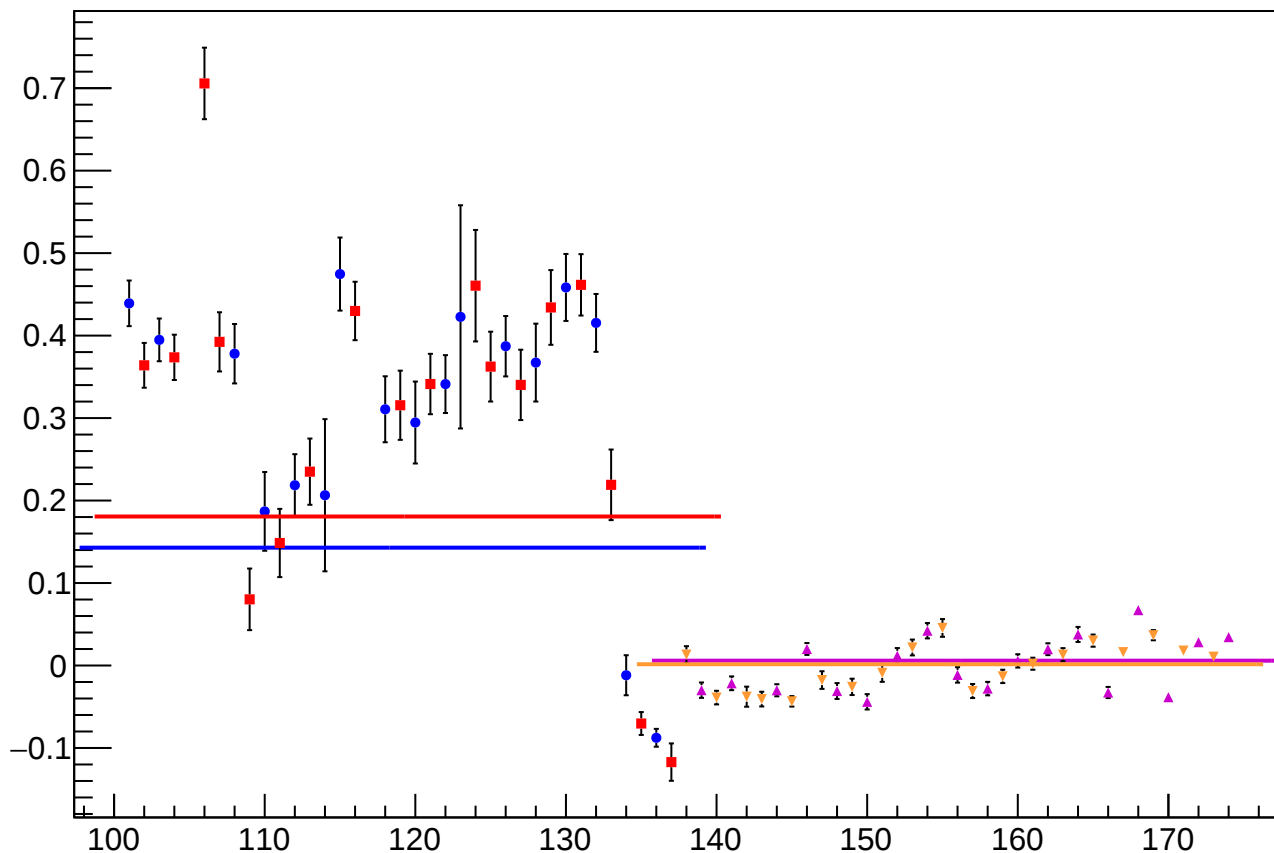
Right:  $-4.504 \pm 0.094$   $\chi^2/\text{NDF}$ : 2927.8/34

In:  $-6.537 \pm 0.036$   $\chi^2/\text{NDF}$ : 2825.9/34

Out:  $-6.619 \pm 0.037$   $\chi^2/\text{NDF}$ : 2322.1/36

All:  $-6.578 \pm 0.026$   $\chi^2/\text{NDF}$ : 5150.6/71

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:  $0.002 \pm 0.002$   $\chi^2/\text{NDF}$ : 228.2/18

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 1003.7/17

Left In:  $0.006 \pm 0.002$   $\chi^2/\text{NDF}$ : 419.1/17

Left:  $0.004 \pm 0.001$   $\chi^2/\text{NDF}$ : 650.4/36

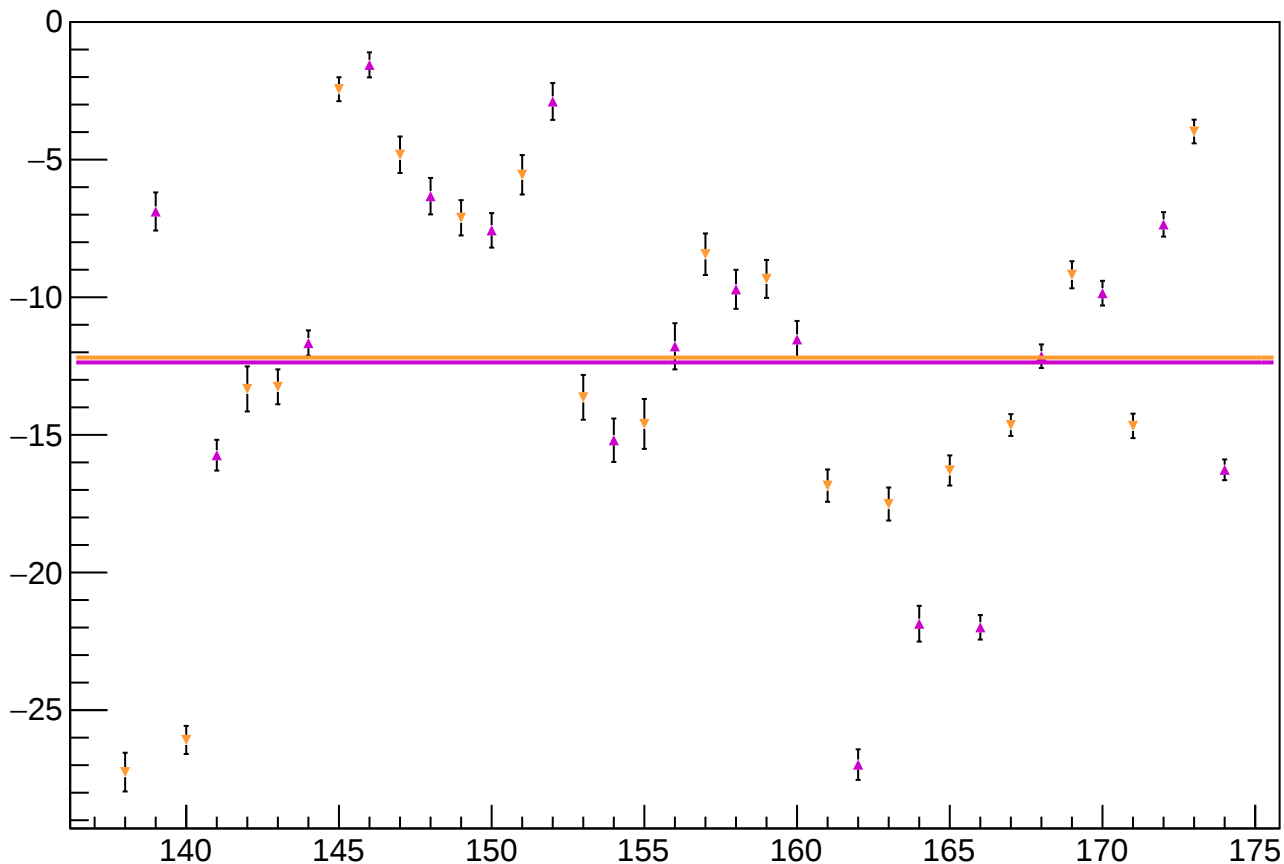
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}$ : 2076.2/34

In:  $0.013 \pm 0.002$   $\chi^2/\text{NDF}$ : 1834.4/34

Out:  $0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 1786.2/36

All:  $0.012 \pm 0.001$   $\chi^2/\text{NDF}$ : 3621.6/71

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: -12.191+/-0.131  $\chi^2/\text{NDF}$ :2699.9/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -12.368+/-0.127  $\chi^2/\text{NDF}$ :2678.9/17

Left: -12.282+/-0.091  $\chi^2/\text{NDF}$ : 5379.7/36

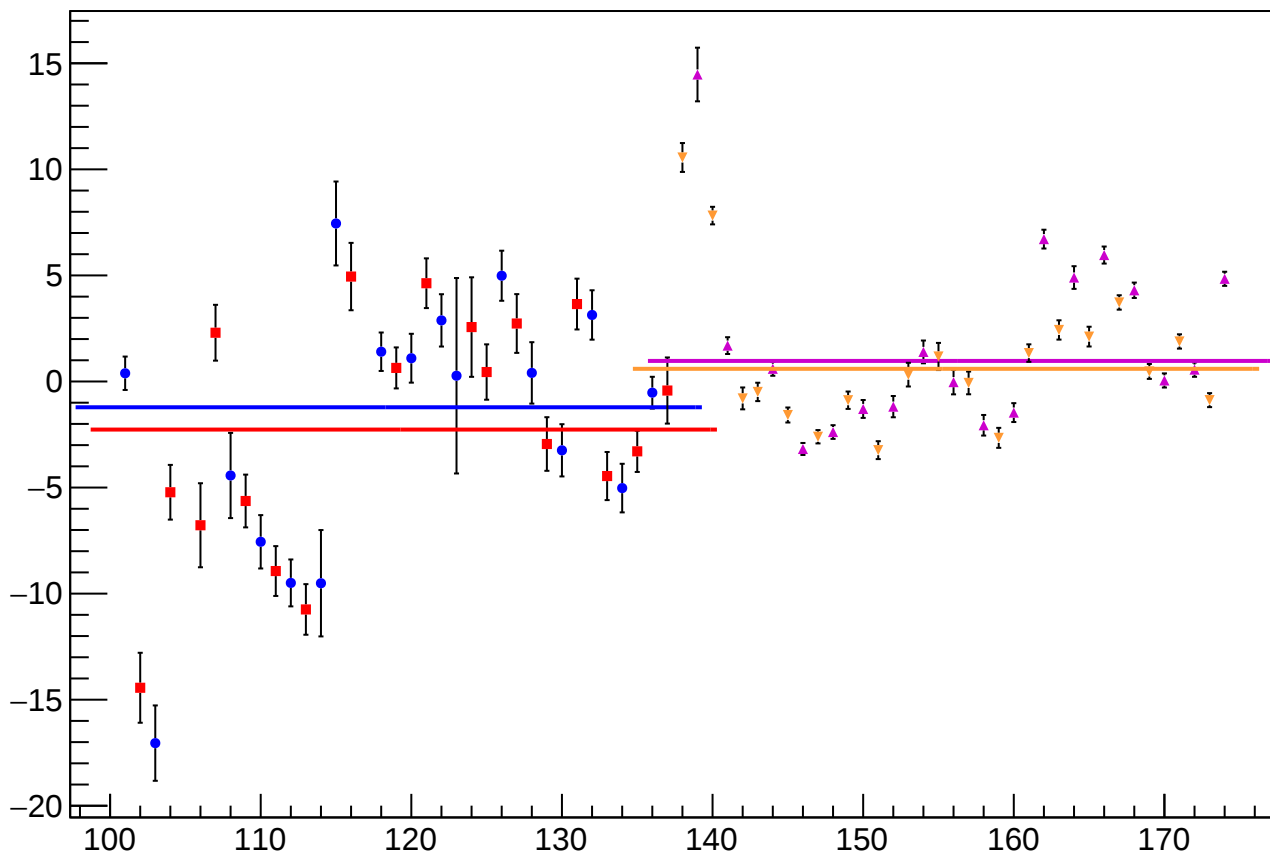
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.368+/-0.127  $\chi^2/\text{NDF}$ :2678.9/17

Out: -12.191+/-0.131  $\chi^2/\text{NDF}$ :2699.9/18

All: -12.282+/-0.091  $\chi^2/\text{NDF}$ : 5379.7/36

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:  $0.597 \pm 0.095$   $\chi^2/\text{NDF}$ : 968.8/18

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

Left In:  $0.969 \pm 0.094$   $\chi^2/\text{NDF}$ : 1167.0/17

Left:  $0.785 \pm 0.067$   $\chi^2/\text{NDF}$ : 2143.5/36

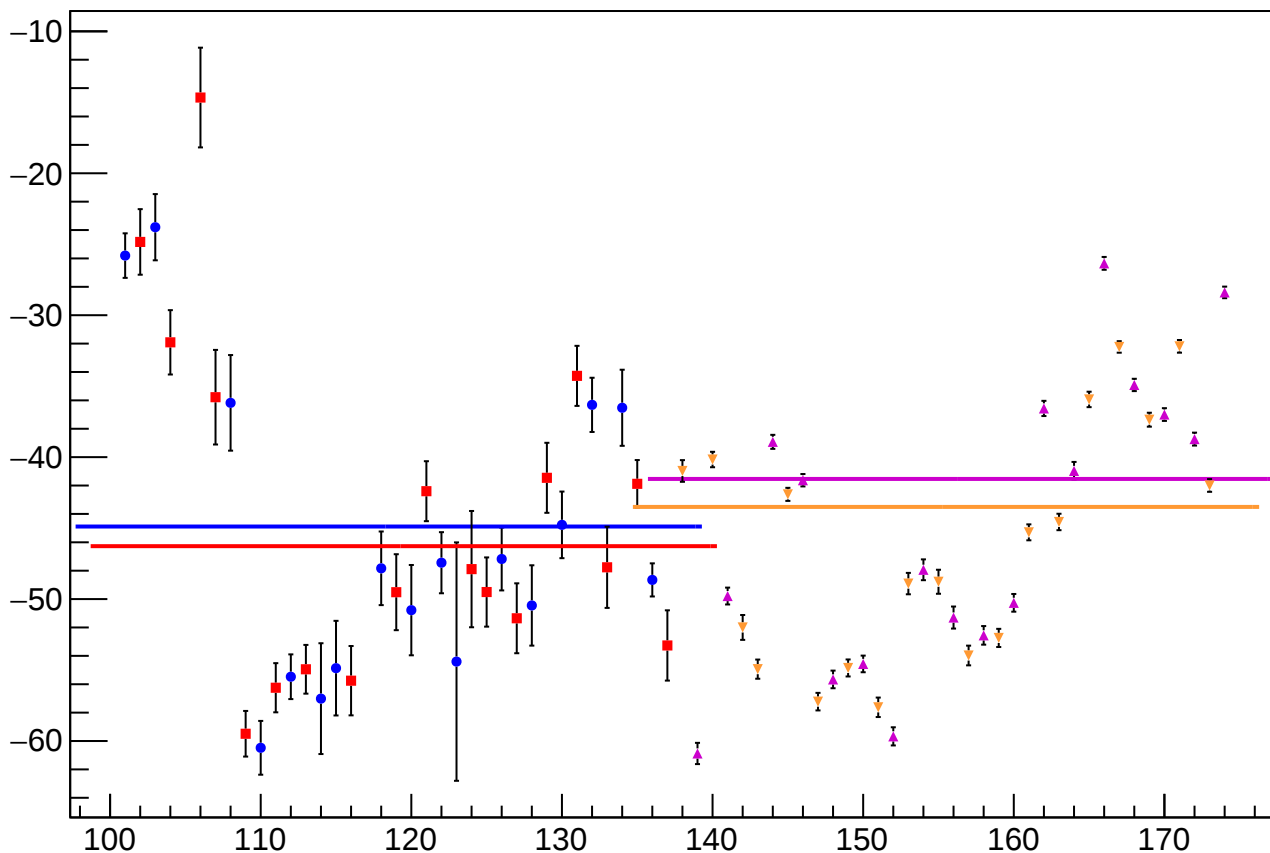
Right:  $-1.720 \pm 0.209$   $\chi^2/\text{NDF}$ : 568.9/34

In:  $0.762 \pm 0.090$   $\chi^2/\text{NDF}$ : 1497.0/34

Out:  $0.339 \pm 0.091$   $\chi^2/\text{NDF}$ : 1334.2/36

All:  $0.553 \pm 0.064$   $\chi^2/\text{NDF}$ : 2842.2/71

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:  $-43.507 \pm 0.131$   $\chi^2/\text{NDF}$ : 4019.3/18

Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17

Left In:  $-41.536 \pm 0.127$   $\chi^2/\text{NDF}$ : 6038.6/17

Left:  $-42.488 \pm 0.091$   $\chi^2/\text{NDF}$ : 10174.9/36

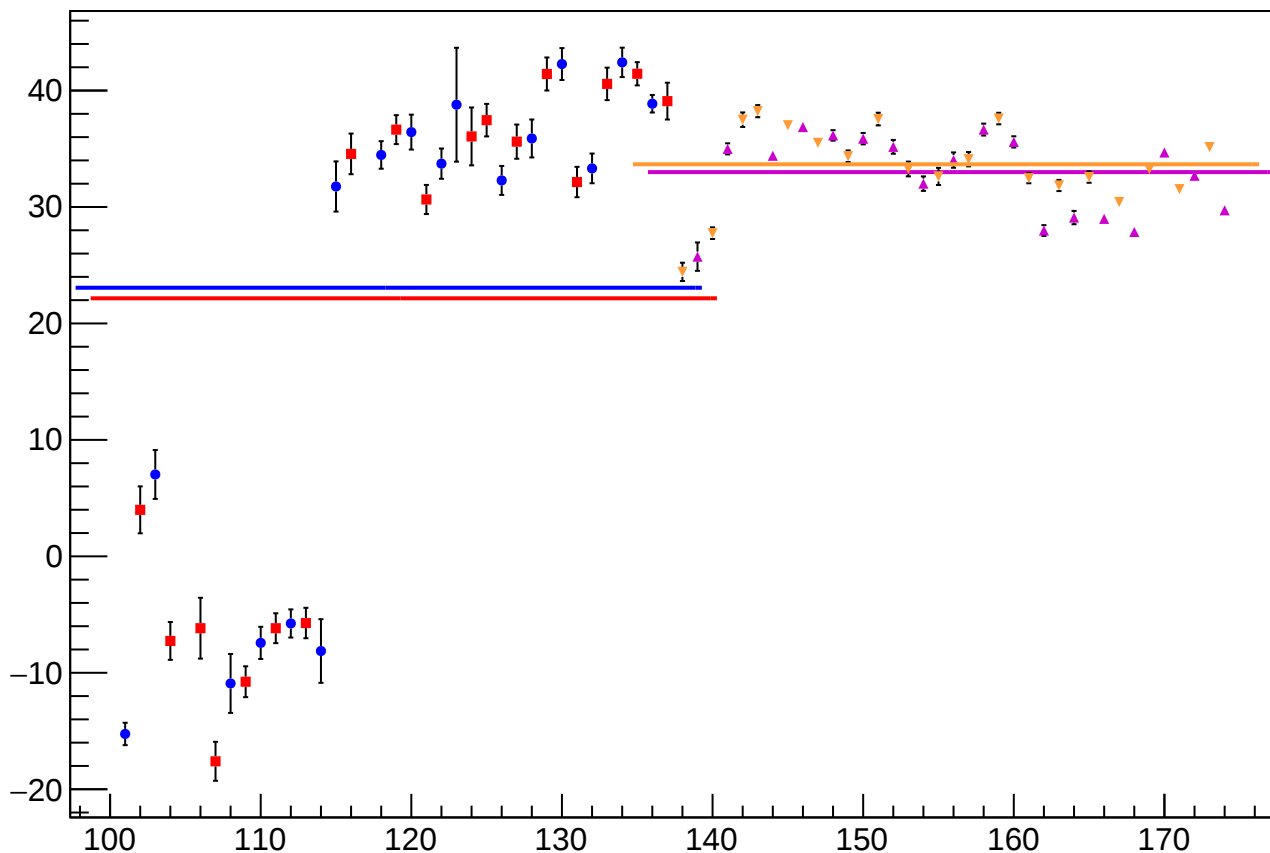
Right:  $-45.572 \pm 0.372$   $\chi^2/\text{NDF}$ : 844.4/34

In:  $-41.721 \pm 0.123$   $\chi^2/\text{NDF}$ : 6497.8/34

Out:  $-43.666 \pm 0.127$   $\chi^2/\text{NDF}$ : 4465.6/36

All:  $-42.662 \pm 0.088$   $\chi^2/\text{NDF}$ : 11084.1/71

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: 33.669 $\pm$ 0.109  $\chi^2$ /NDF:748.9/18

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

Left In: 32.996 $\pm$ 0.108  $\chi^2$ /NDF:875.7/17

Left: 33.328 $\pm$ 0.077  $\chi^2$ /NDF: 1643.8/36

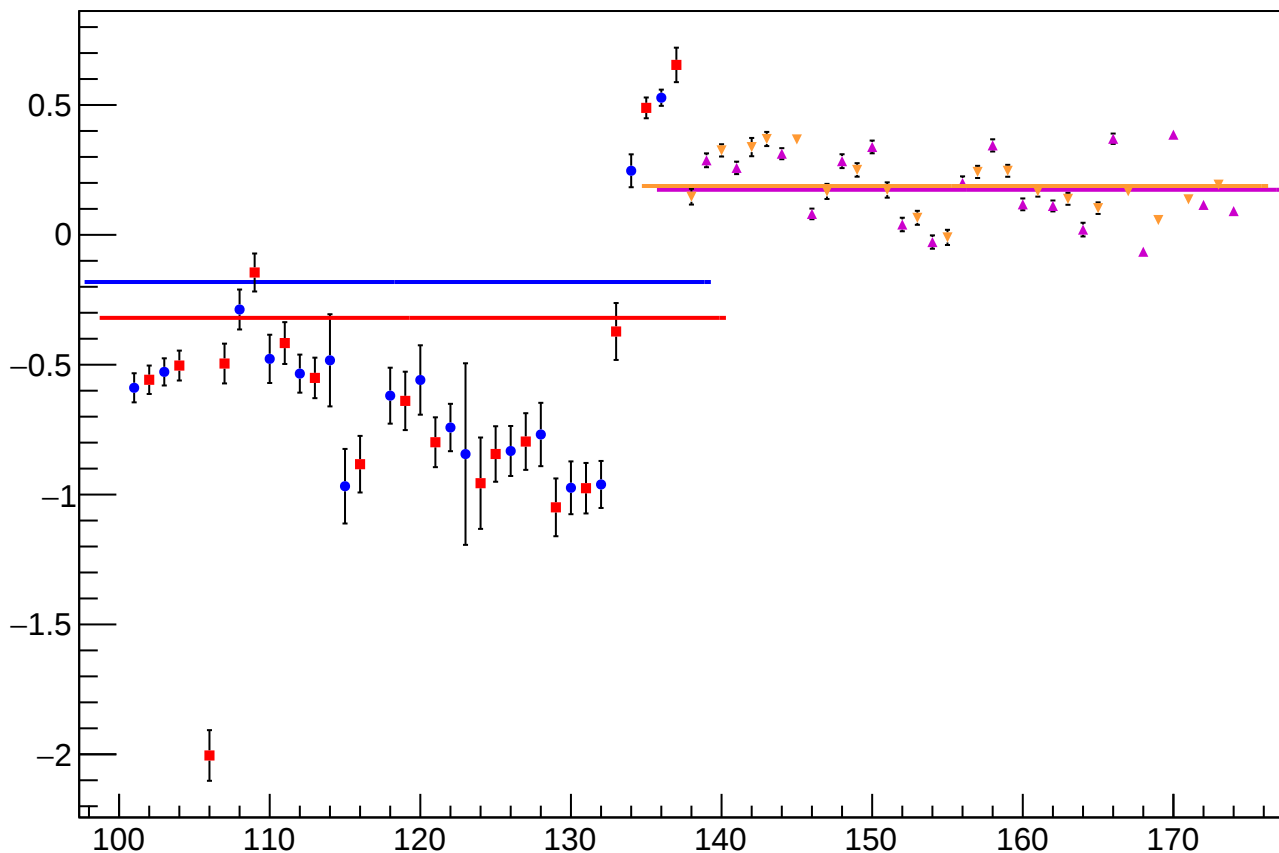
Right: 22.631 $\pm$ 0.236  $\chi^2$ /NDF: 8362.7/34

In: 32.022 $\pm$ 0.102  $\chi^2$ /NDF:6043.2/34

Out: 32.594 $\pm$ 0.104  $\chi^2$ /NDF:5813.2/36

All: 32.303 $\pm$ 0.073  $\chi^2$ /NDF: 11871.8/71

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:  $0.188 \pm 0.005$   $\chi^2/\text{NDF}$ : 365.4/18

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

Left In:  $0.174 \pm 0.005$   $\chi^2/\text{NDF}$ : 865.3/17

Left:  $0.181 \pm 0.004$   $\chi^2/\text{NDF}$ : 1235.0/36

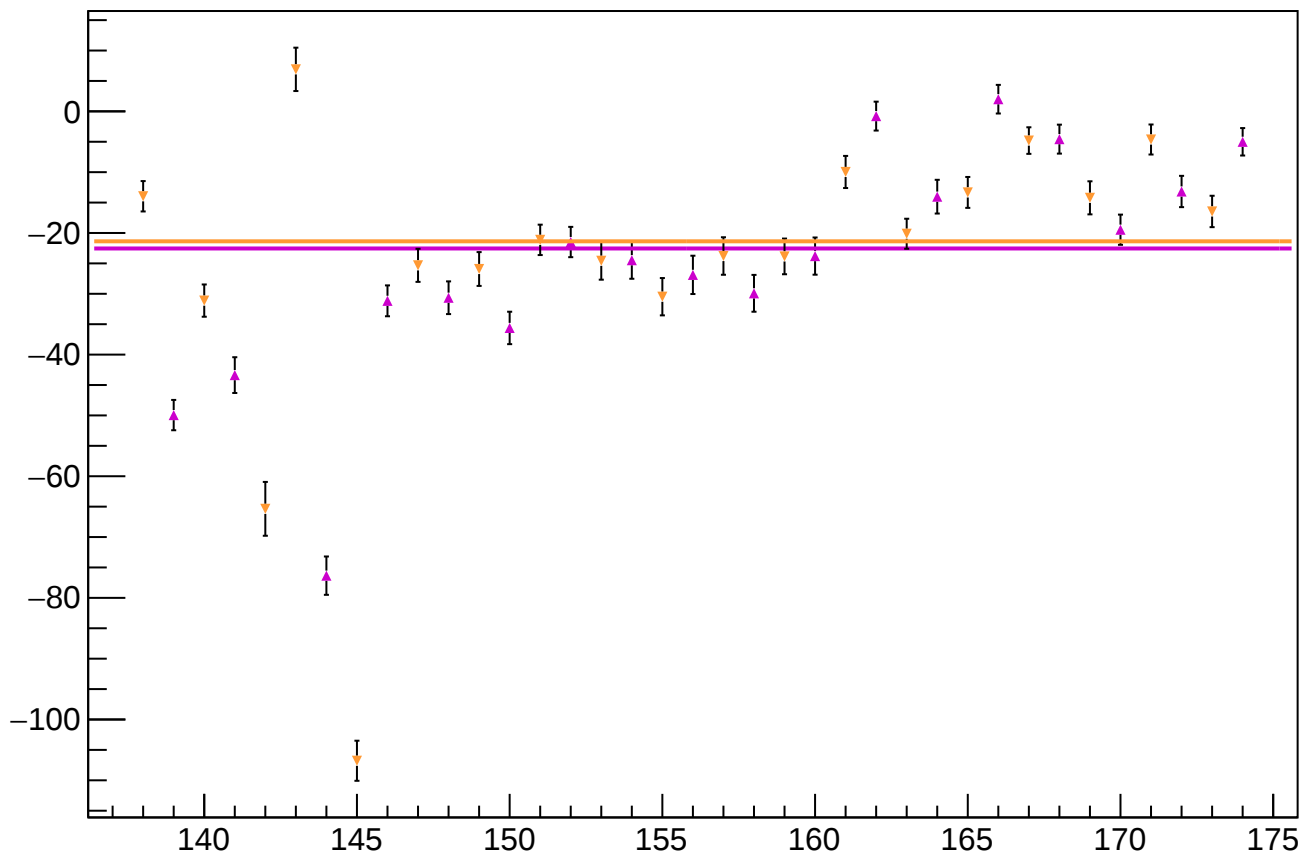
Right:  $-0.249 \pm 0.013$   $\chi^2/\text{NDF}$ : 2203.9/34

In:  $0.148 \pm 0.005$   $\chi^2/\text{NDF}$ : 2234.0/34

Out:  $0.152 \pm 0.005$   $\chi^2/\text{NDF}$ : 2264.1/36

All:  $0.150 \pm 0.003$   $\chi^2/\text{NDF}$ : 4498.5/71

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: -21.370+/-0.632  $\chi^2/\text{NDF}$ :1014.3/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.550+/-0.624  $\chi^2/\text{NDF}$ :849.8/17

Left: -21.968+/-0.444  $\chi^2/\text{NDF}$ : 1865.8/36

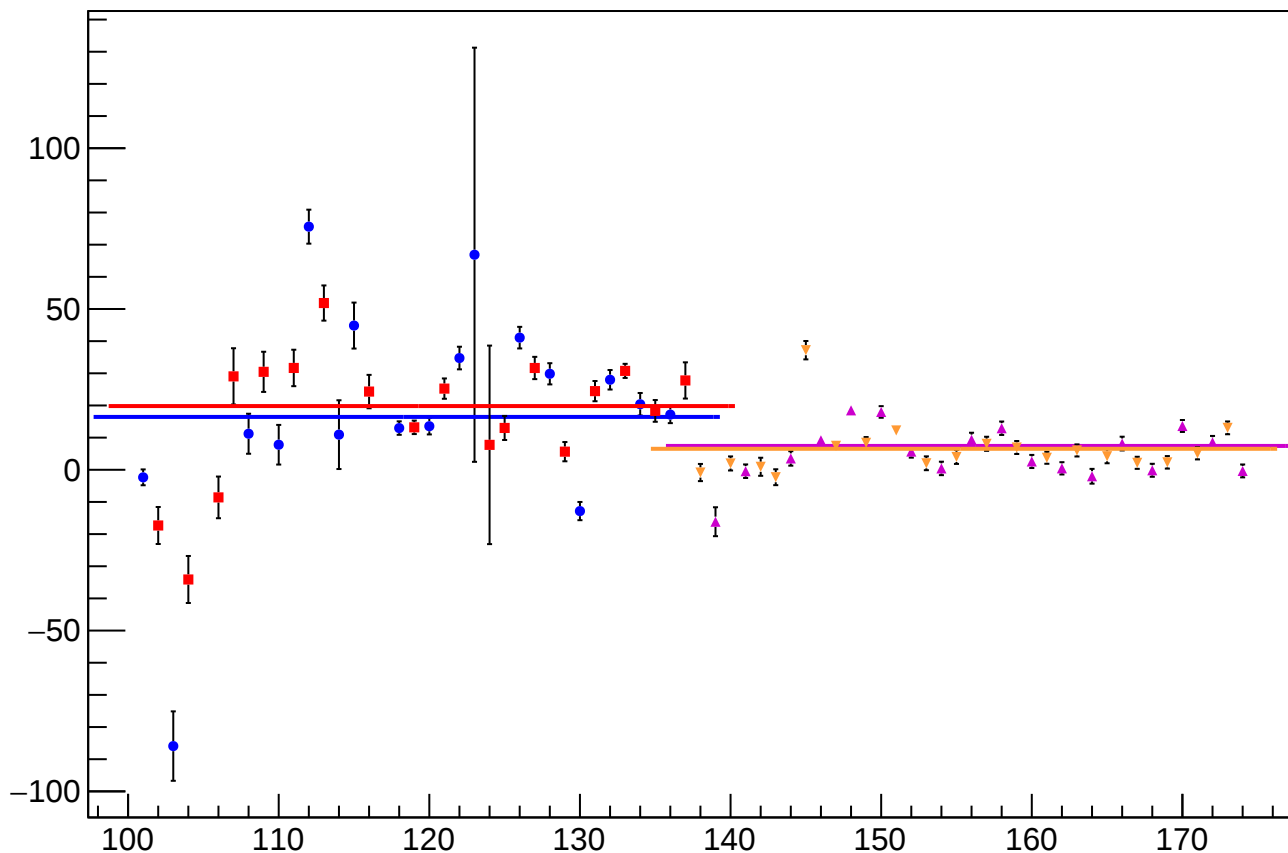
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.550+/-0.624  $\chi^2/\text{NDF}$ :849.8/17

Out: -21.370+/-0.632  $\chi^2/\text{NDF}$ :1014.3/18

All: -21.968+/-0.444  $\chi^2/\text{NDF}$ : 1865.8/36

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 16.439 $\pm$ 0.849  $\chi^2$ /NDF: 516.9/16

Left Out: 6.526 $\pm$ 0.451  $\chi^2$ /NDF:192.7/18

Right Out: 19.813 $\pm$ 0.899  $\chi^2$ /NDF: 238.5/17

Left In: 7.417 $\pm$ 0.460  $\chi^2$ /NDF:247.9/17

Left: 6.963 $\pm$ 0.322  $\chi^2$ /NDF: 442.6/36

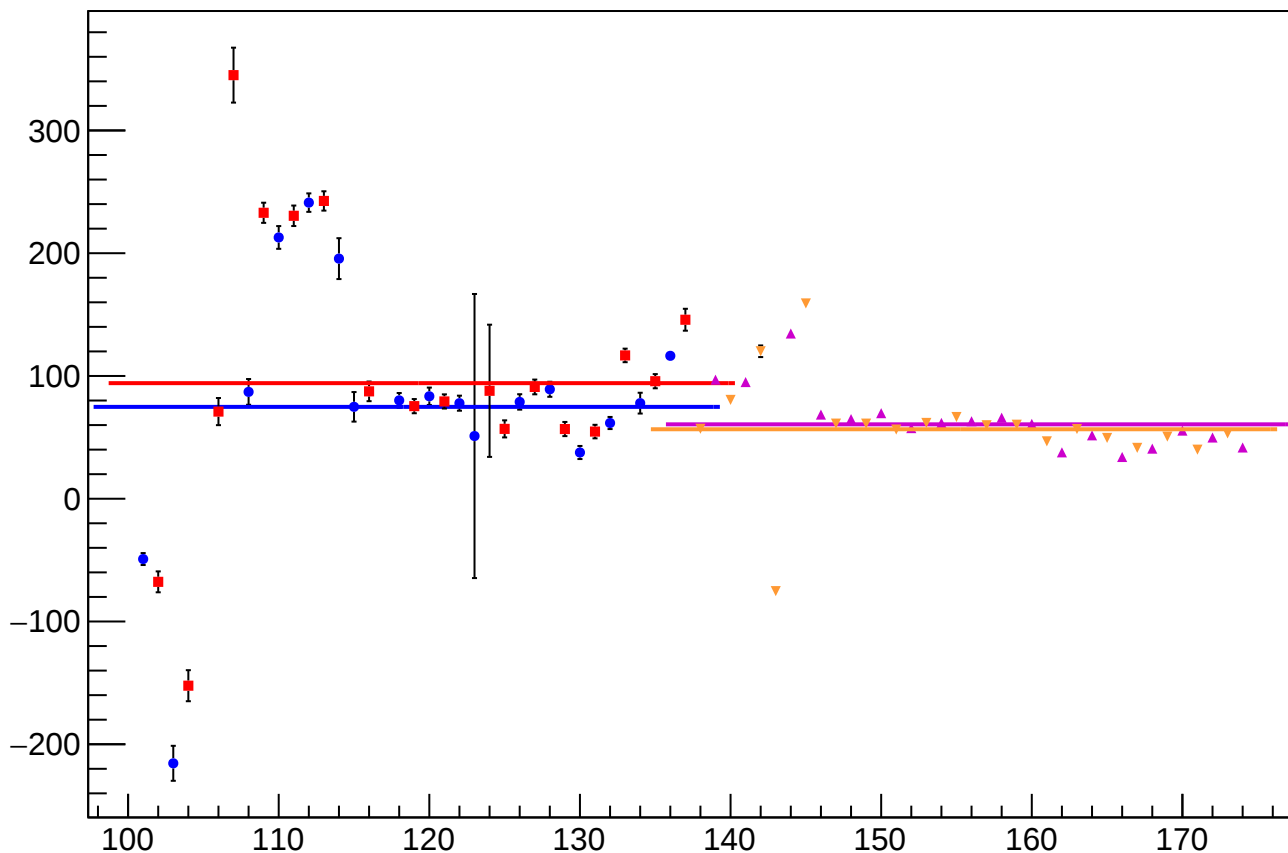
Right: 18.028 $\pm$ 0.617  $\chi^2$ /NDF: 762.9/34

In: 9.465 $\pm$ 0.404  $\chi^2$ /NDF:852.3/34

Out: 9.199 $\pm$ 0.403  $\chi^2$ /NDF:605.6/36

All: 9.332 $\pm$ 0.286  $\chi^2$ /NDF: 1458.1/71

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 74.824+/-1.639  $\chi^2/\text{NDF}$ : 1996.8/16

Left Out: 56.589+/-0.624  $\chi^2/\text{NDF}$ : 2495.6/18

Right Out: 94.153+/-1.720  $\chi^2/\text{NDF}$ : 1969.2/17

Left In: 60.605+/-0.616  $\chi^2/\text{NDF}$ : 1199.4/17

Left: 58.623+/-0.439  $\chi^2/\text{NDF}$ : 3716.0/36

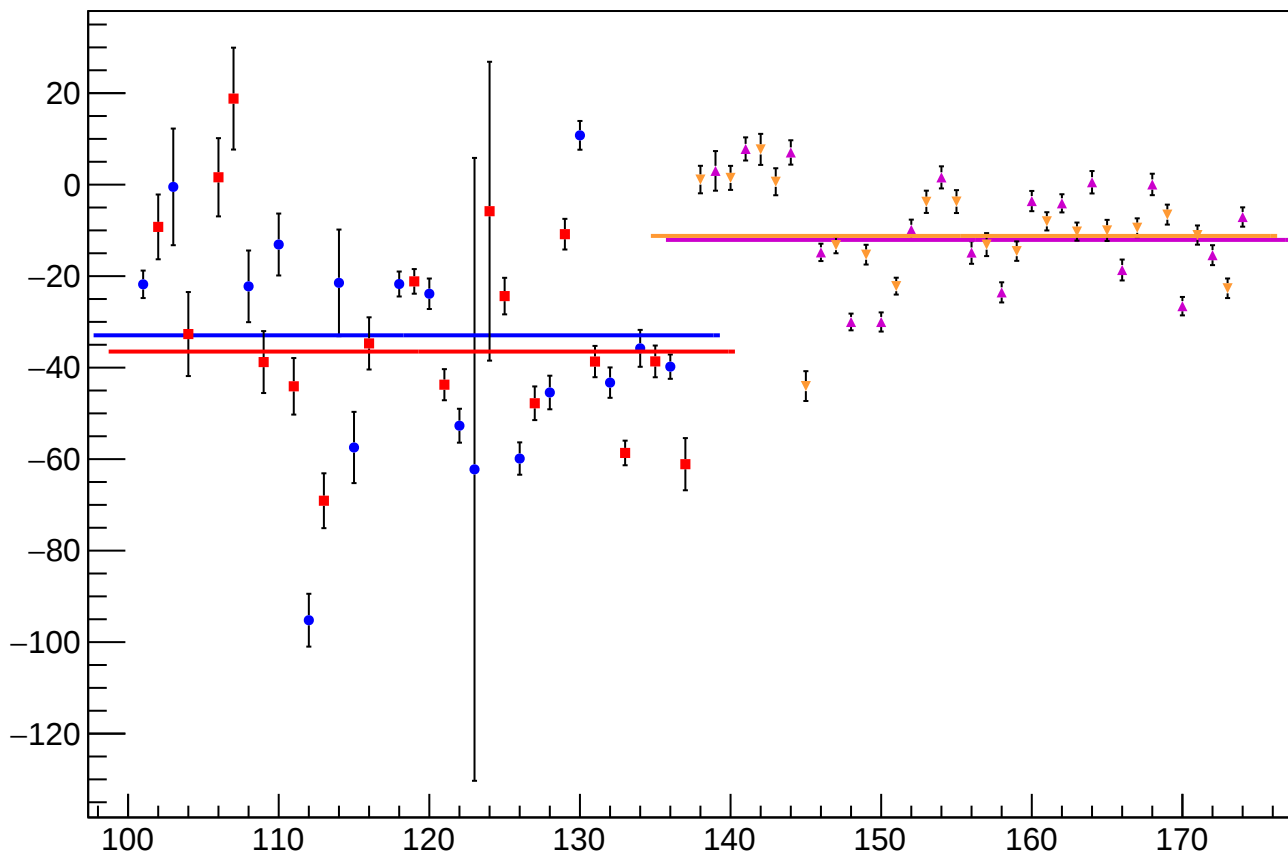
Right: 84.020+/-1.186  $\chi^2/\text{NDF}$ : 4032.2/34

In: 62.368+/-0.577  $\chi^2/\text{NDF}$ : 3262.2/34

Out: 60.963+/-0.587  $\chi^2/\text{NDF}$ : 4886.2/36

All: 61.677+/-0.411  $\chi^2/\text{NDF}$ : 8151.3/71

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:  $-11.208 \pm 0.522$   $\chi^2/\text{NDF}$ : 287.3/18

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

Left In:  $-12.079 \pm 0.529$   $\chi^2/\text{NDF}$ : 510.9/17

Left:  $-11.638 \pm 0.371$   $\chi^2/\text{NDF}$ : 799.5/36

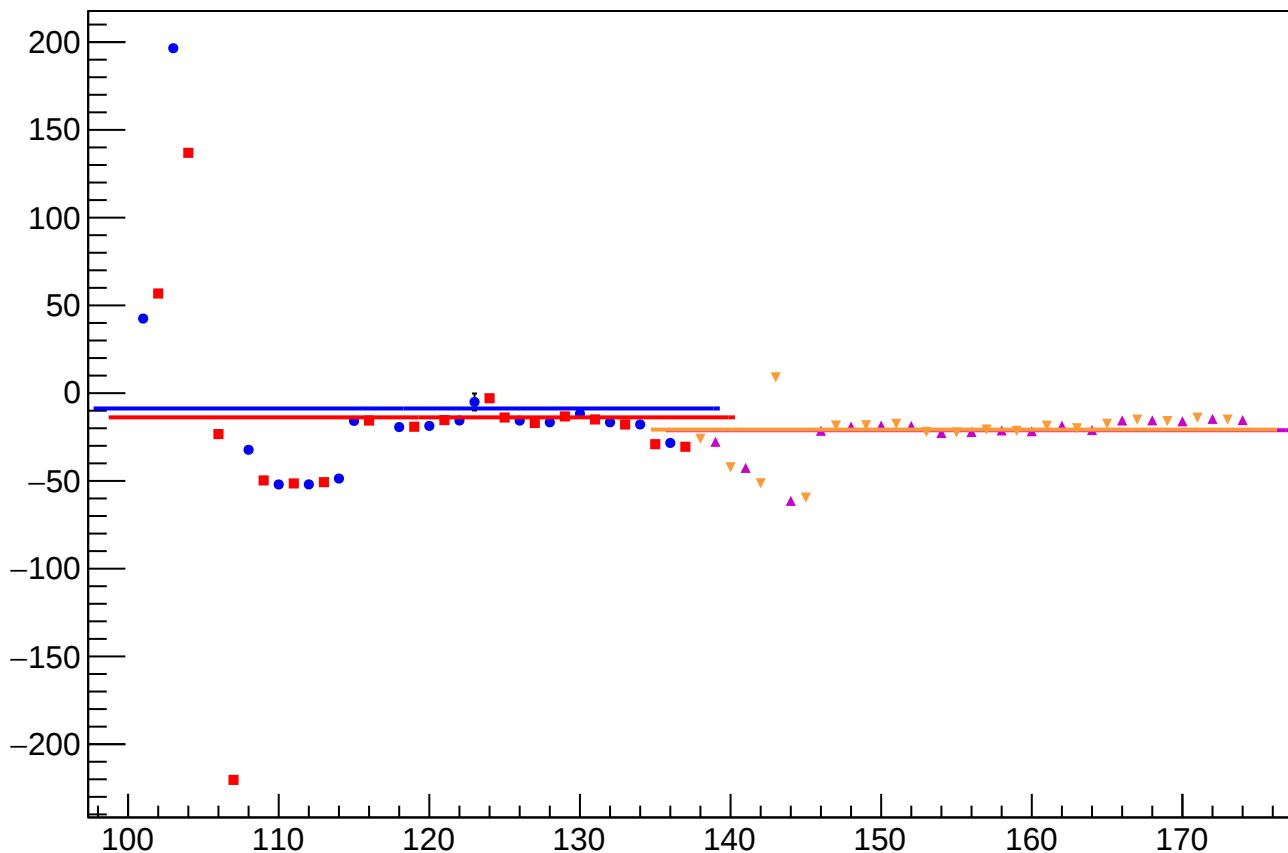
Right:  $-34.617 \pm 0.706$   $\chi^2/\text{NDF}$ : 790.3/34

In:  $-16.831 \pm 0.465$   $\chi^2/\text{NDF}$ : 1356.2/34

Out:  $-16.397 \pm 0.465$   $\chi^2/\text{NDF}$ : 1062.4/36

All:  $-16.614 \pm 0.329$   $\chi^2/\text{NDF}$ : 2419.0/71

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-20.753 \pm 0.024$   $\chi^2/\text{NDF}: 198785.8/18$

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}: 549380.2/17$

Left In:  $-21.114 \pm 0.024$   $\chi^2/\text{NDF}: 129733.7/17$

Left:  $-20.936 \pm 0.017$   $\chi^2/\text{NDF}: 328632.3/36$

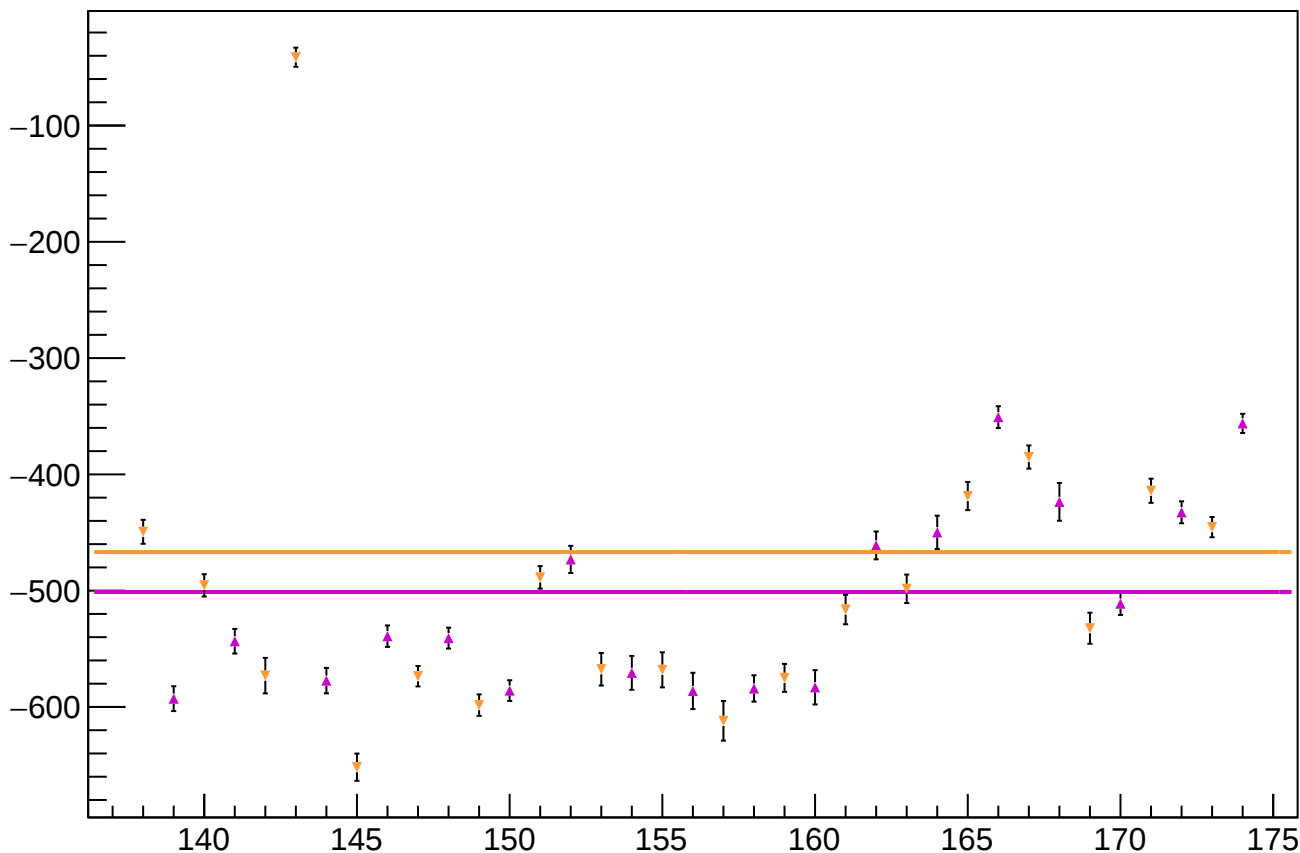
Right:  $-11.121 \pm 0.043$   $\chi^2/\text{NDF}: 1128724.7/34$

In:  $-19.365 \pm 0.022$   $\chi^2/\text{NDF}: 743623.8/34$

Out:  $-19.836 \pm 0.023$   $\chi^2/\text{NDF}: 759074.2/36$

All:  $-19.596 \pm 0.016$   $\chi^2/\text{NDF}: 1502920.2/71$

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: -466.774+/-2.503  $\chi^2/\text{NDF}$ :3754.3/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -501.111+/-2.541  $\chi^2/\text{NDF}$ :1074.9/17

Left: -483.678+/-1.783  $\chi^2/\text{NDF}$ : 4921.9/36

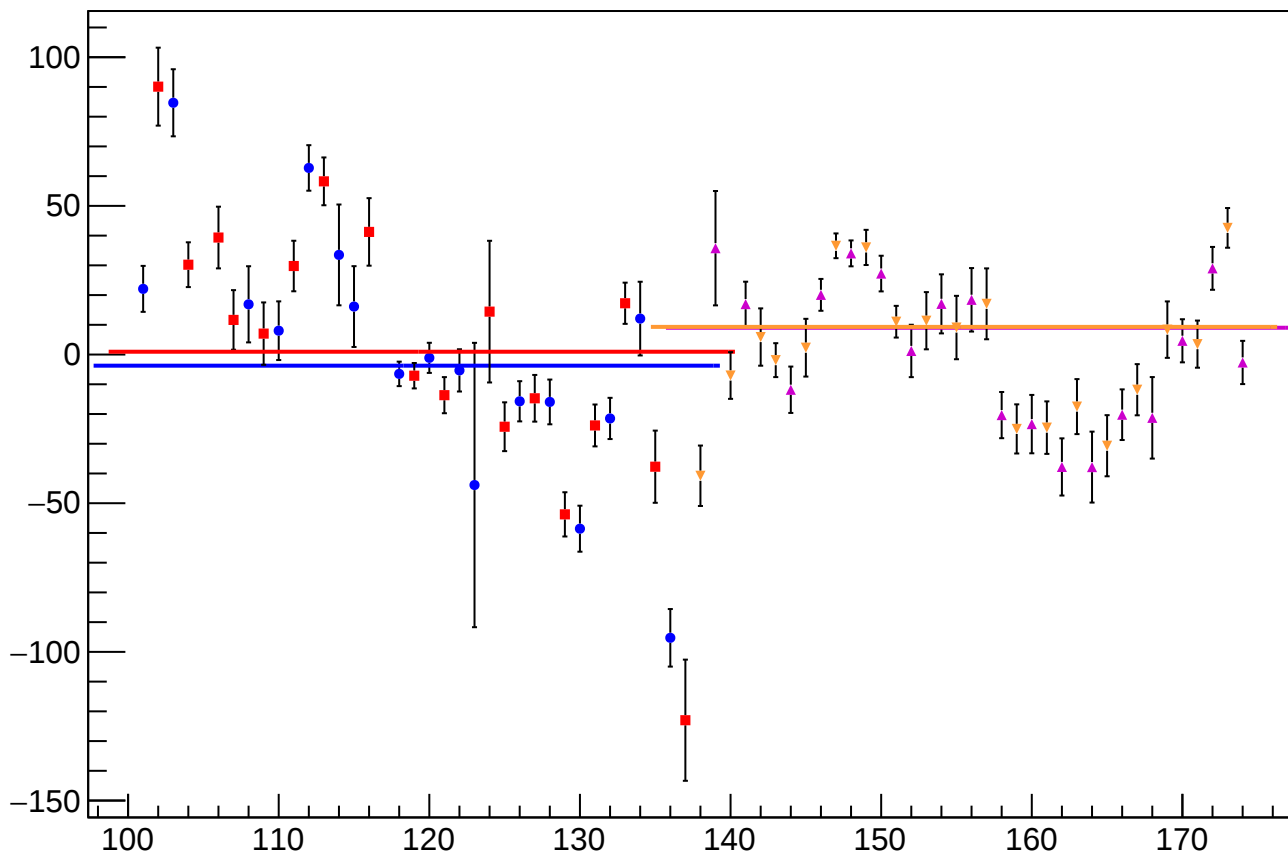
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -501.111+/-2.541  $\chi^2/\text{NDF}$ :1074.9/17

Out: -466.774+/-2.503  $\chi^2/\text{NDF}$ :3754.3/18

All: -483.678+/-1.783  $\chi^2/\text{NDF}$ : 4921.9/36

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:  $9.303 \pm 1.721$   $\chi^2/\text{NDF}$ : 184.0/18

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

Left In:  $9.014 \pm 1.811$   $\chi^2/\text{NDF}$ : 150.5/17

Left:  $9.166 \pm 1.247$   $\chi^2/\text{NDF}$ : 334.5/36

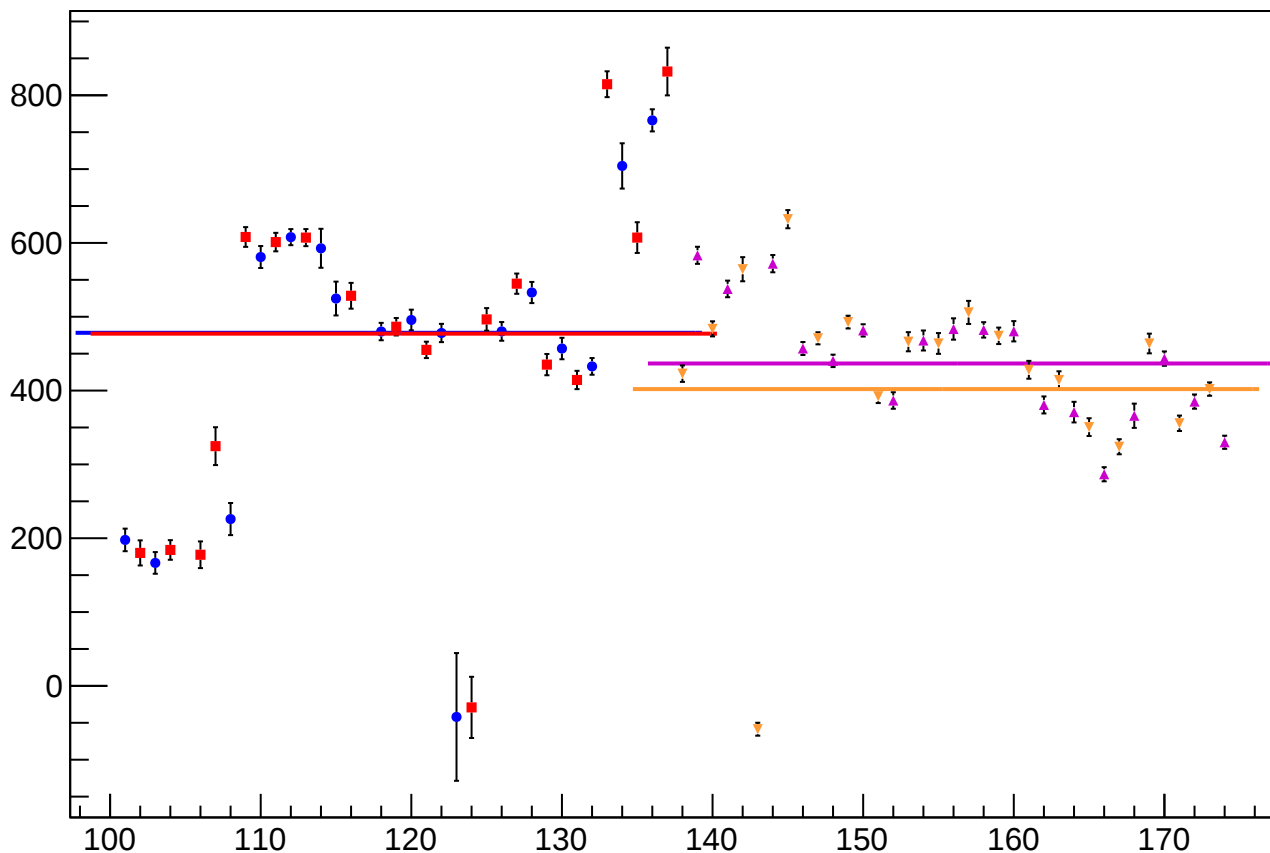
Right:  $-1.430 \pm 1.347$   $\chi^2/\text{NDF}$ : 610.8/34

In:  $2.915 \pm 1.308$   $\chi^2/\text{NDF}$ : 488.4/34

Out:  $5.577 \pm 1.281$   $\chi^2/\text{NDF}$ : 488.1/36

All:  $4.274 \pm 0.915$   $\chi^2/\text{NDF}$ : 978.6/71

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 402.019 $\pm$ 2.489  $\chi^2$ /NDF:3708.6/18

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

Left In: 436.693 $\pm$ 2.517  $\chi^2$ /NDF:955.5/17

Left: 419.159 $\pm$ 1.770  $\chi^2$ /NDF: 4760.1/36

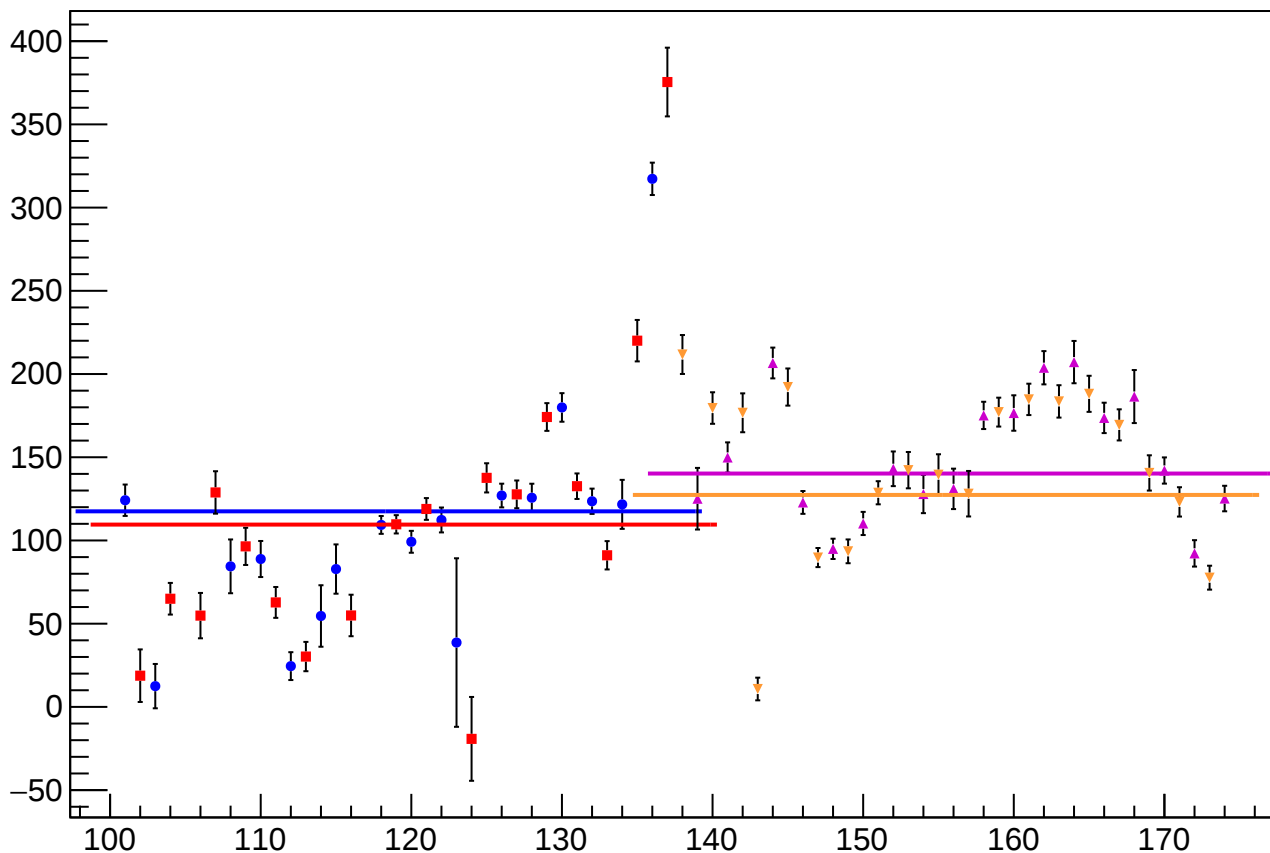
Right: 477.667 $\pm$ 2.538  $\chi^2$ /NDF: 3803.8/34

In: 450.151 $\pm$ 2.070  $\chi^2$ /NDF:2671.8/34

Out: 426.841 $\pm$ 2.036  $\chi^2$ /NDF:6185.3/36

All: 438.304 $\pm$ 1.452  $\chi^2$ /NDF: 8921.5/71

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 117.502 $\pm$ 2.198  $\chi^2$ /NDF: 705.9/16

Left Out: 127.358 $\pm$ 2.031  $\chi^2$ /NDF:699.5/18

Right Out: 109.536 $\pm$ 2.208  $\chi^2$ /NDF: 562.2/17

Left In: 140.210 $\pm$ 2.113  $\chi^2$ /NDF:295.7/17

Left: 133.530 $\pm$ 1.464  $\chi^2$ /NDF: 1014.5/36

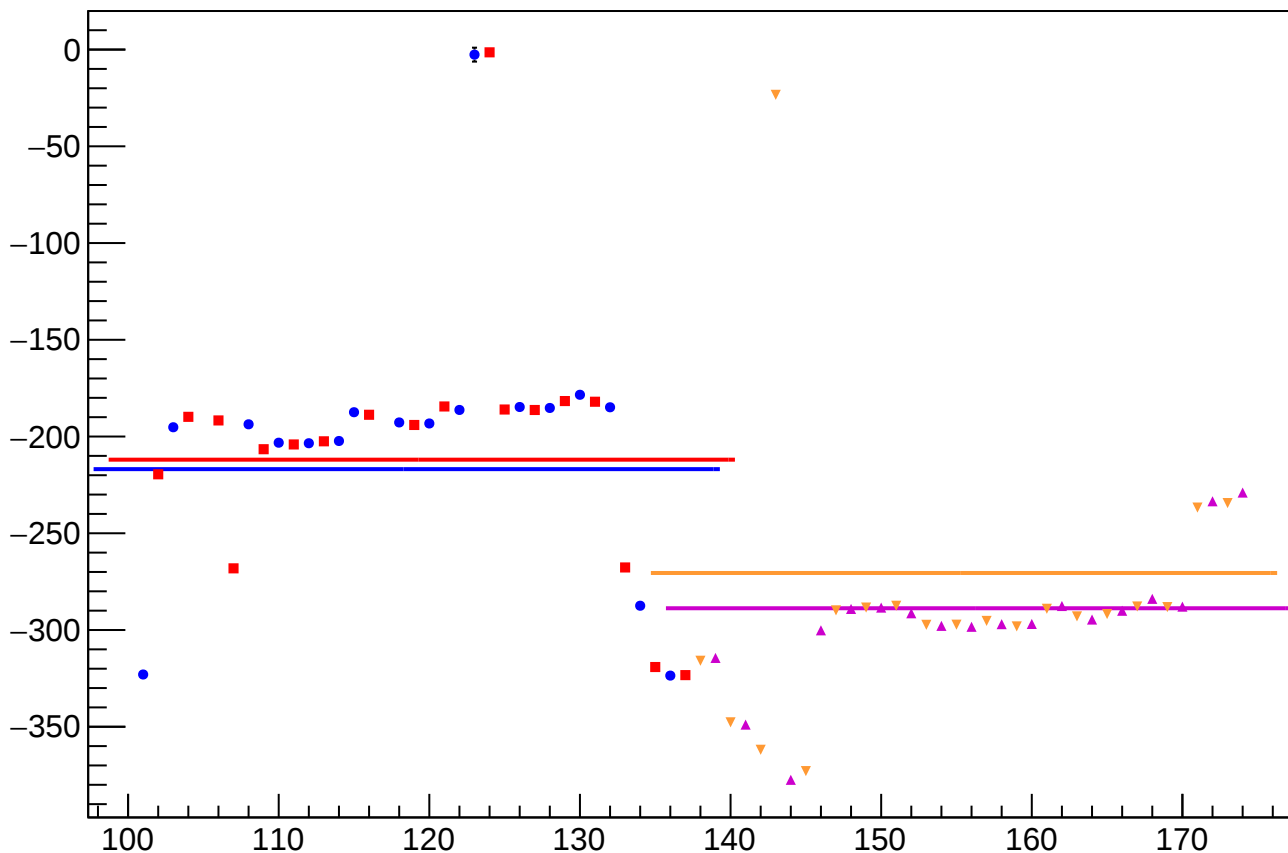
Right: 113.538 $\pm$ 1.558  $\chi^2$ /NDF: 1274.7/34

In: 129.304 $\pm$ 1.523  $\chi^2$ /NDF:1057.1/34

Out: 119.193 $\pm$ 1.495  $\chi^2$ /NDF:1297.0/36

All: 124.154 $\pm$ 1.067  $\chi^2$ /NDF: 2376.6/71

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}: 146927.1/16$

Left Out:  $-270.525 \pm 0.098$   $\chi^2/\text{NDF}: 645447.5/18$

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}: 112091.8/17$

Left In:  $-288.755 \pm 0.099$   $\chi^2/\text{NDF}: 113586.1/17$

Left:  $-279.613 \pm 0.070$   $\chi^2/\text{NDF}: 776154.7/36$

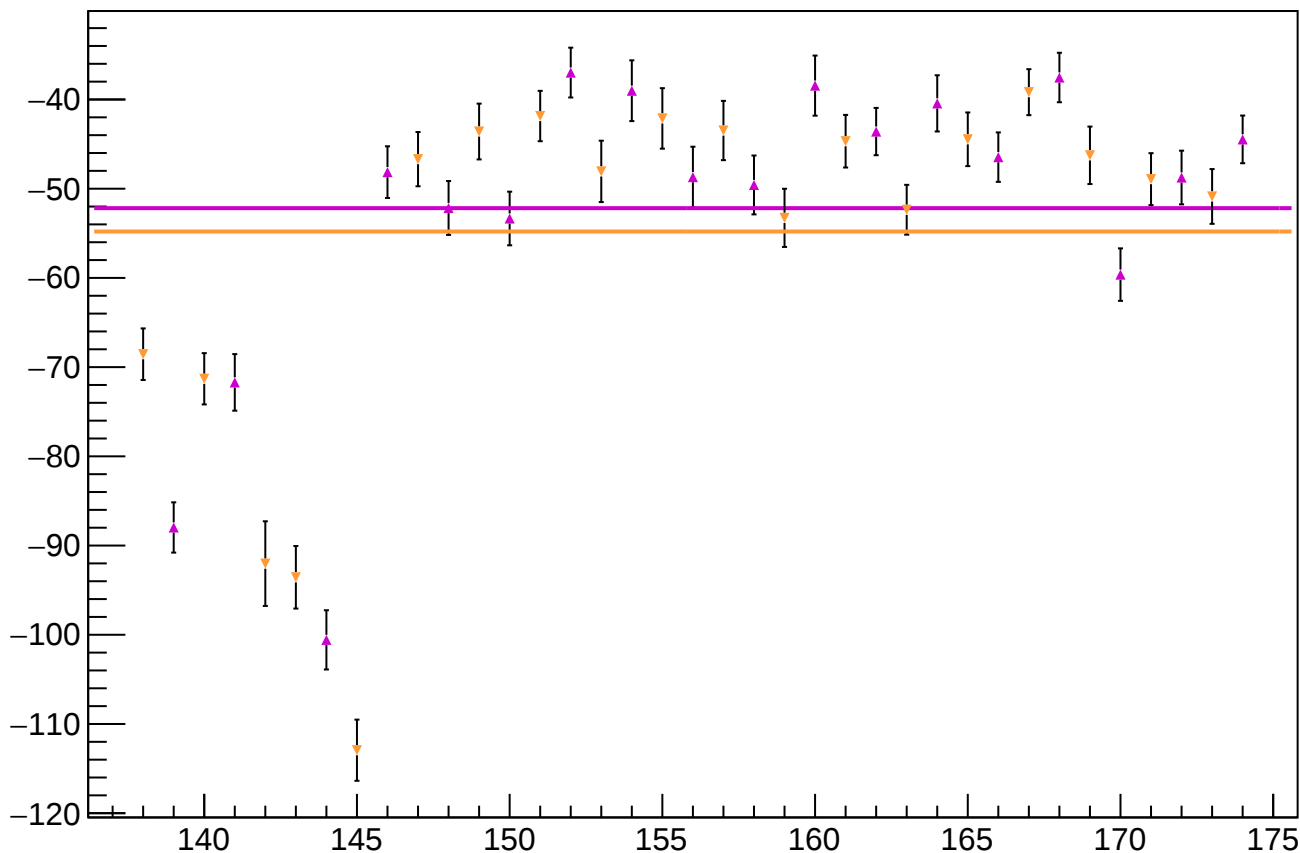
Right:  $-214.313 \pm 0.094$   $\chi^2/\text{NDF}: 259693.1/34$

In:  $-263.928 \pm 0.080$   $\chi^2/\text{NDF}: 443885.1/34$

Out:  $-249.337 \pm 0.079$   $\chi^2/\text{NDF}: 885761.1/36$

All:  $-256.518 \pm 0.056$   $\chi^2/\text{NDF}: 1346610.5/71$

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



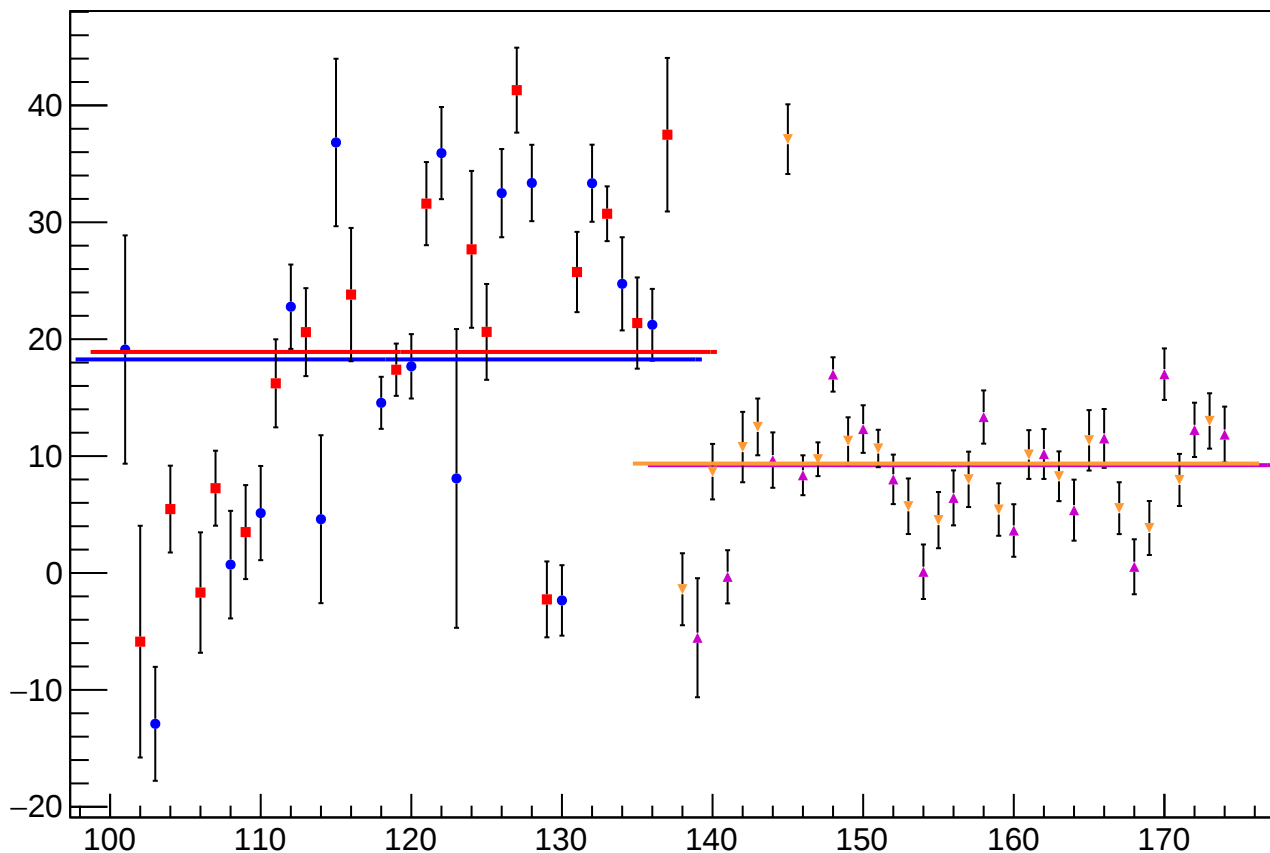
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -54.799+/-0.713  $\chi^2/\text{NDF}$ : 671.4/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -52.181+/-0.706  $\chi^2/\text{NDF}$ : 549.2/17

Left: -53.478+/-0.502  $\chi^2/\text{NDF}$ : 1227.4/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -52.181+/-0.706  $\chi^2/\text{NDF}$ : 549.2/17  
 Out: -54.799+/-0.713  $\chi^2/\text{NDF}$ : 671.4/18

All: -53.478+/-0.502  $\chi^2/\text{NDF}$ : 1227.4/36

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.269 \pm 0.907$   $\chi^2/\text{NDF}$ : 208.3/16

Left Out:  $9.362 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.6/18

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

Left In:  $9.223 \pm 0.519$   $\chi^2/\text{NDF}$ : 115.2/17

Left:  $9.294 \pm 0.363$   $\chi^2/\text{NDF}$ : 239.9/36

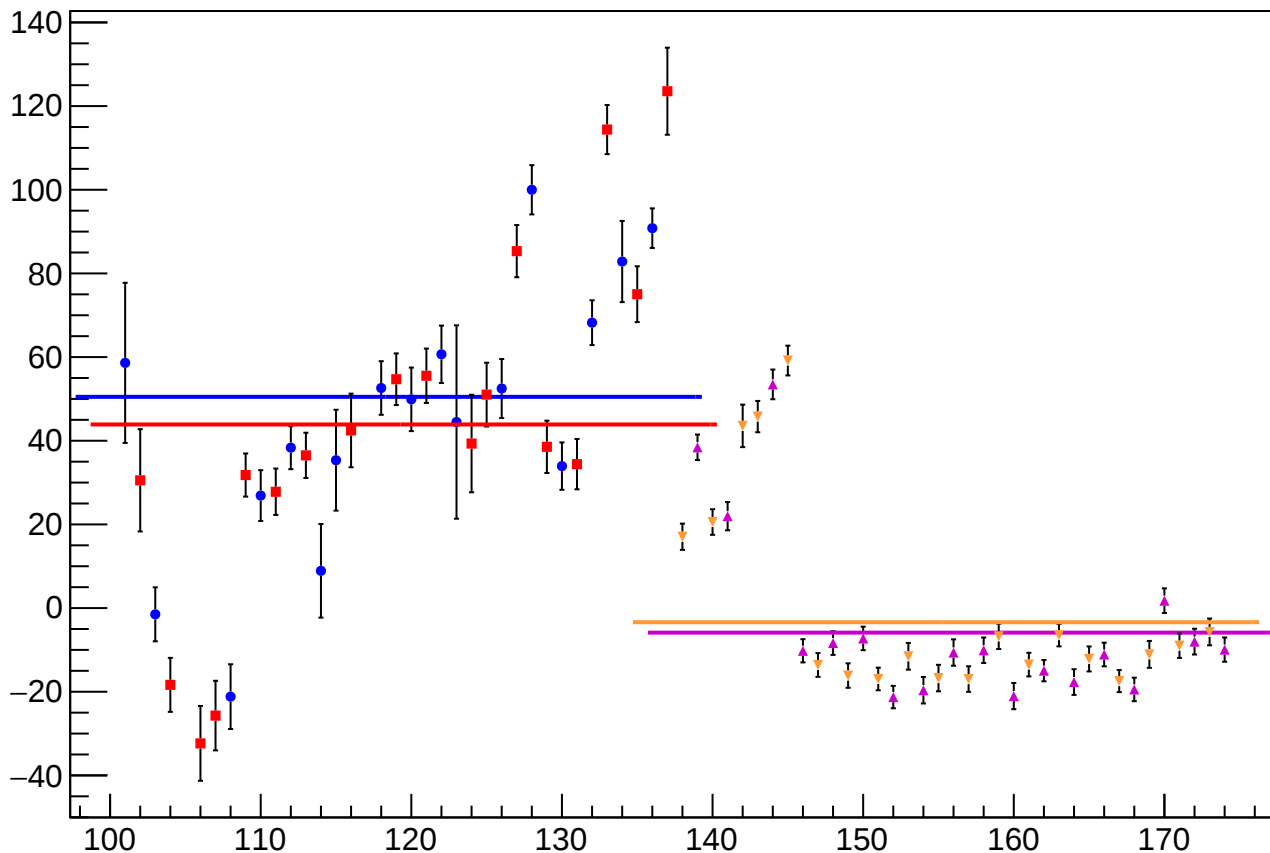
Right:  $18.605 \pm 0.626$   $\chi^2/\text{NDF}$ : 406.7/34

In:  $11.457 \pm 0.451$   $\chi^2/\text{NDF}$ : 398.5/34

Out:  $11.807 \pm 0.437$   $\chi^2/\text{NDF}$ : 413.5/36

All:  $11.637 \pm 0.314$   $\chi^2/\text{NDF}$ : 812.3/71

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: -3.379 $\pm$ 0.704  $\chi^2$ /NDF:834.2/18

Right Out: 43.895 $\pm$ 1.604  $\chi^2$ /NDF: 531.7/17

Left In: -5.865 $\pm$ 0.697  $\chi^2$ /NDF:705.0/17

Left: -4.634 $\pm$ 0.495  $\chi^2$ /NDF: 1545.5/36

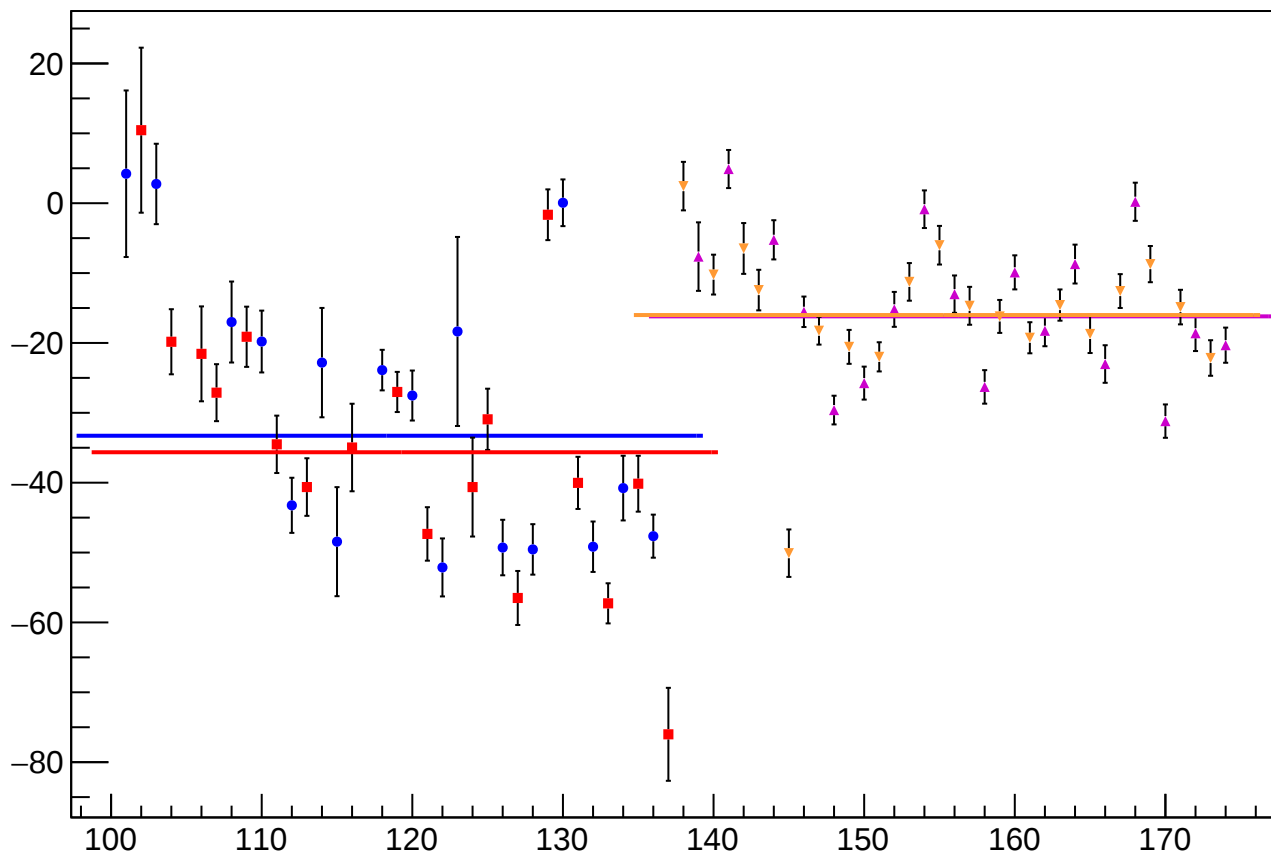
Right: 47.060 $\pm$ 1.157  $\chi^2$ /NDF: 903.0/34

In: 2.492 $\pm$ 0.643  $\chi^2$ /NDF:2037.4/34

Out: 4.253 $\pm$ 0.644  $\chi^2$ /NDF:2094.6/36

All: 3.372 $\pm$ 0.455  $\chi^2$ /NDF: 4135.8/71

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:  $-16.006 \pm 0.588$   $\chi^2/\text{NDF}$ : 190.4/18

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

Left In:  $-16.195 \pm 0.597$   $\chi^2/\text{NDF}$ : 289.2/17

Left:  $-16.099 \pm 0.419$   $\chi^2/\text{NDF}$ : 479.6/36

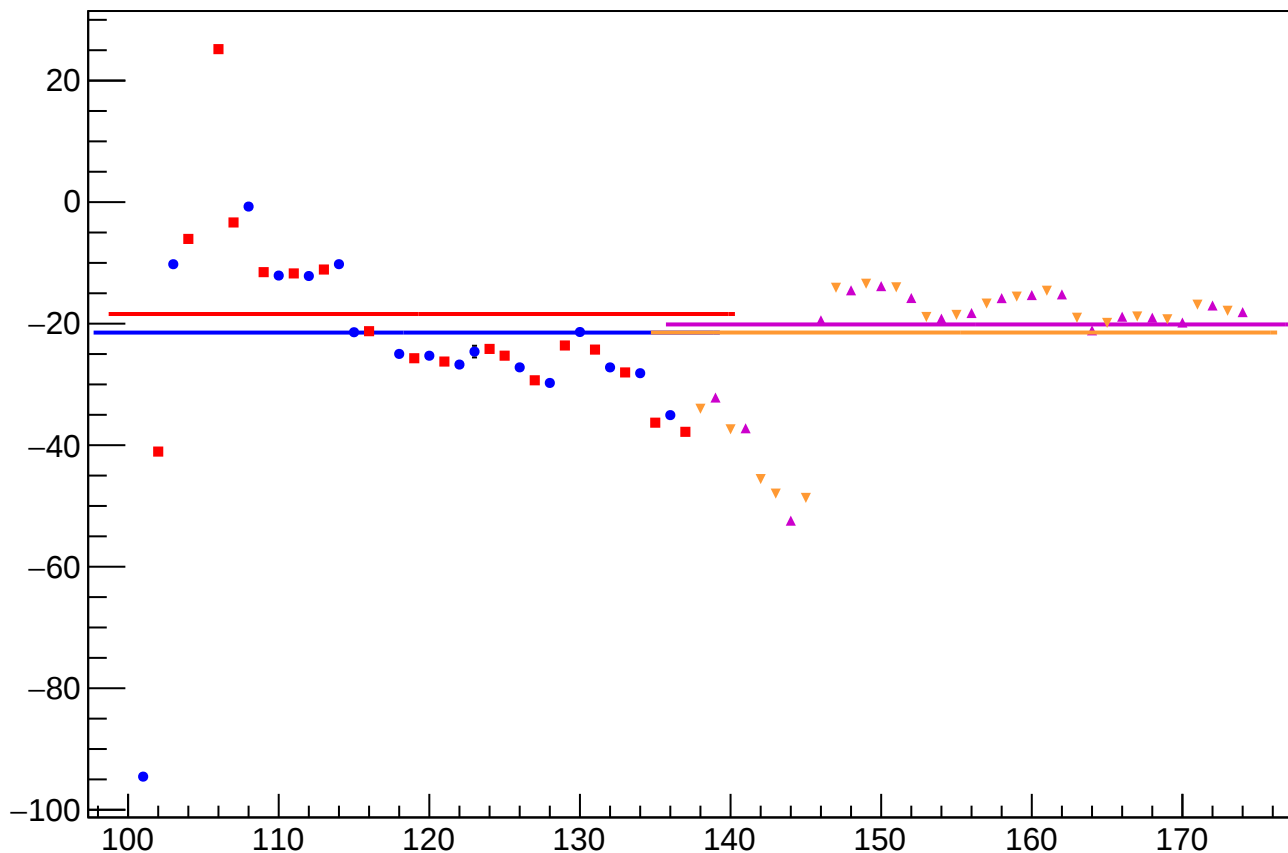
Right:  $-34.511 \pm 0.716$   $\chi^2/\text{NDF}$ : 580.2/34

In:  $-20.465 \pm 0.517$   $\chi^2/\text{NDF}$ : 786.6/34

Out:  $-21.101 \pm 0.506$   $\chi^2/\text{NDF}$ : 764.7/36

All:  $-20.790 \pm 0.362$   $\chi^2/\text{NDF}$ : 1552.1/71

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}: 48979.5/16$

Left Out:  $-21.459 \pm 0.027$   $\chi^2/\text{NDF}: 133721.2/18$

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}: 77587.3/17$

Left In:  $-20.129 \pm 0.027$   $\chi^2/\text{NDF}: 85797.2/17$

Left:  $-20.787 \pm 0.019$   $\chi^2/\text{NDF}: 220719.7/36$

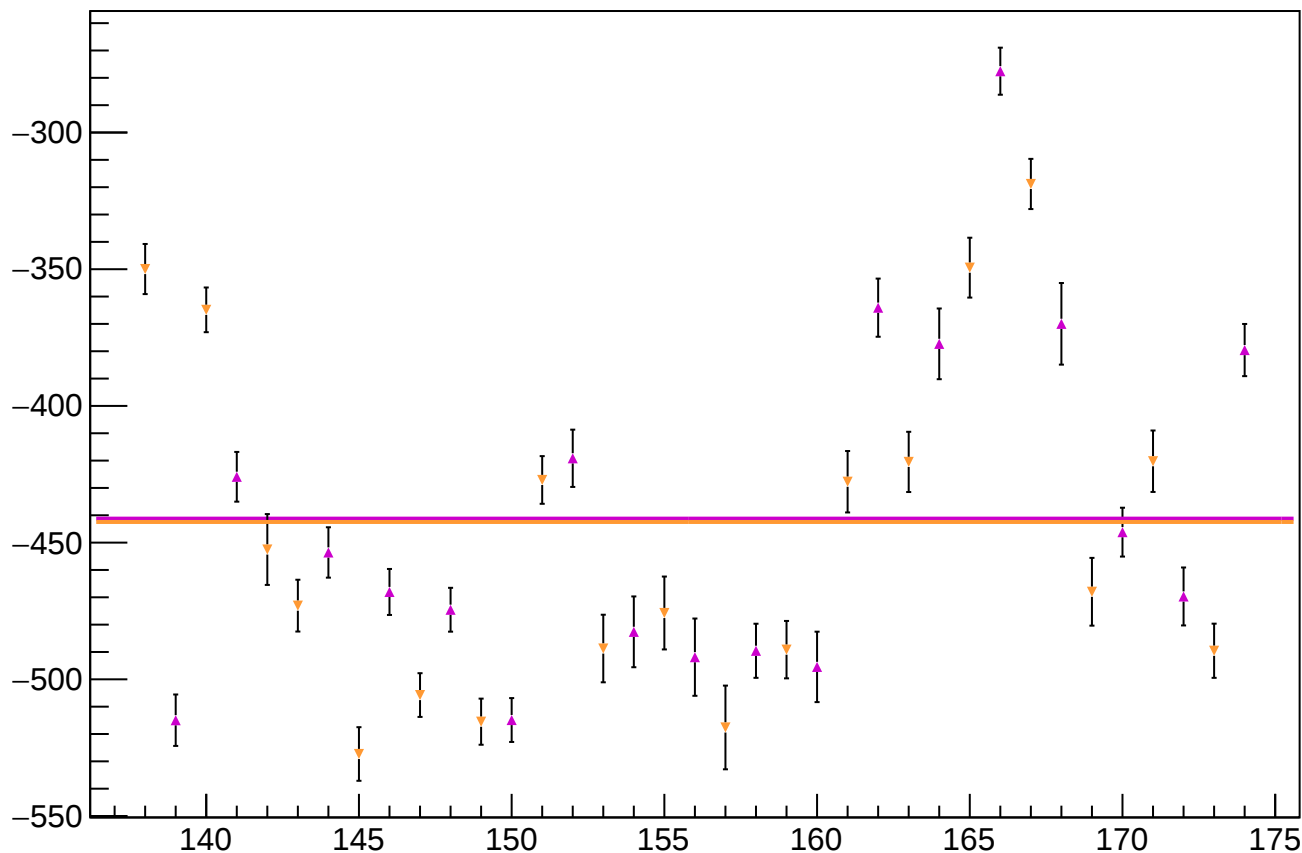
Right:  $-19.904 \pm 0.041$   $\chi^2/\text{NDF}: 127953.4/34$

In:  $-20.362 \pm 0.025$   $\chi^2/\text{NDF}: 135206.4/34$

Out:  $-20.897 \pm 0.025$   $\chi^2/\text{NDF}: 213609.8/36$

All:  $-20.629 \pm 0.017$   $\chi^2/\text{NDF}: 349052.6/71$

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: -442.444+/-2.333  $\chi^2/\text{NDF}$ :772.9/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -441.229+/-2.344  $\chi^2/\text{NDF}$ :757.7/17

Left: -441.840+/-1.654  $\chi^2/\text{NDF}$ : 1530.8/36

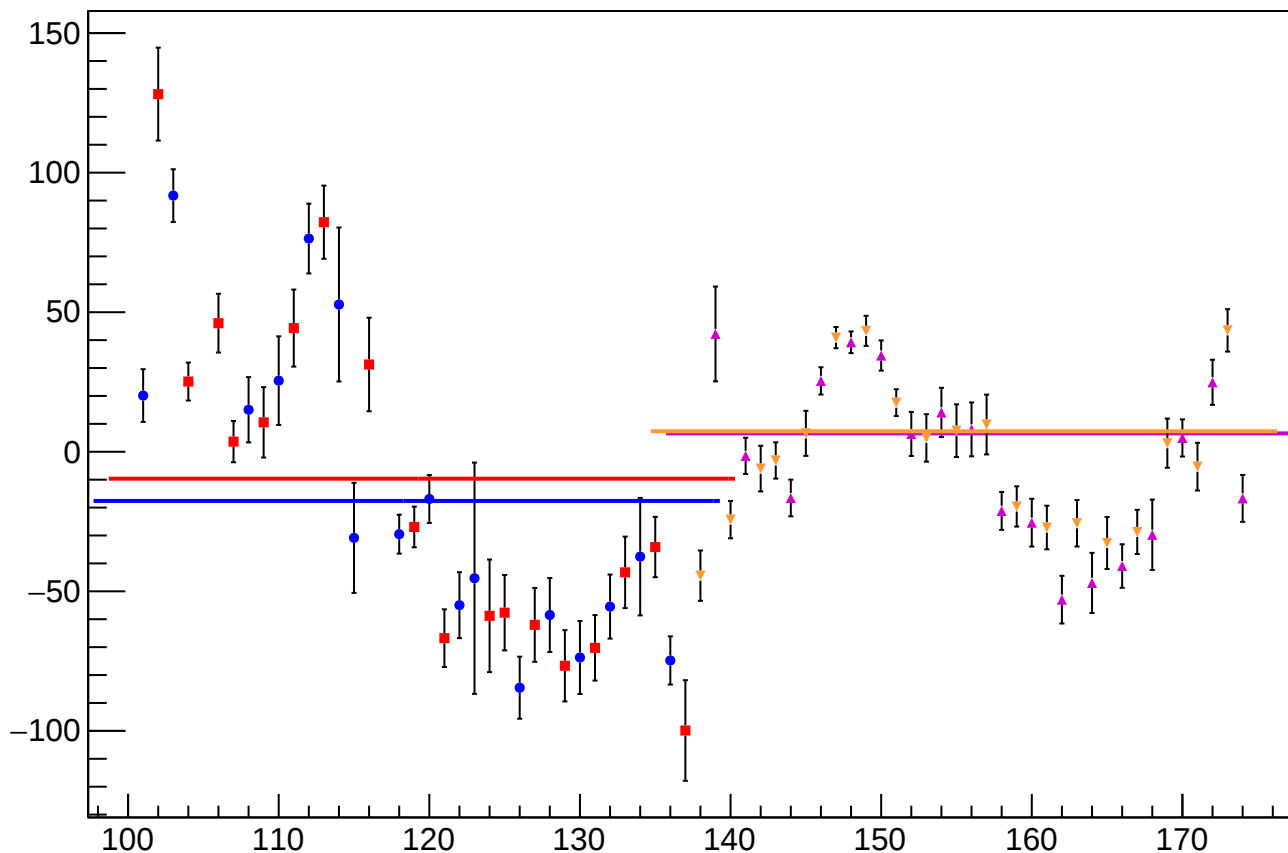
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -441.229+/-2.344  $\chi^2/\text{NDF}$ :757.7/17

Out: -442.444+/-2.333  $\chi^2/\text{NDF}$ :772.9/18

All: -441.840+/-1.654  $\chi^2/\text{NDF}$ : 1530.8/36

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:  $7.351 \pm 1.599$   $\chi^2/\text{NDF}$ : 301.7/18

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

Left In:  $6.579 \pm 1.655$   $\chi^2/\text{NDF}$ : 293.7/17

Left:  $6.978 \pm 1.150$   $\chi^2/\text{NDF}$ : 595.5/36

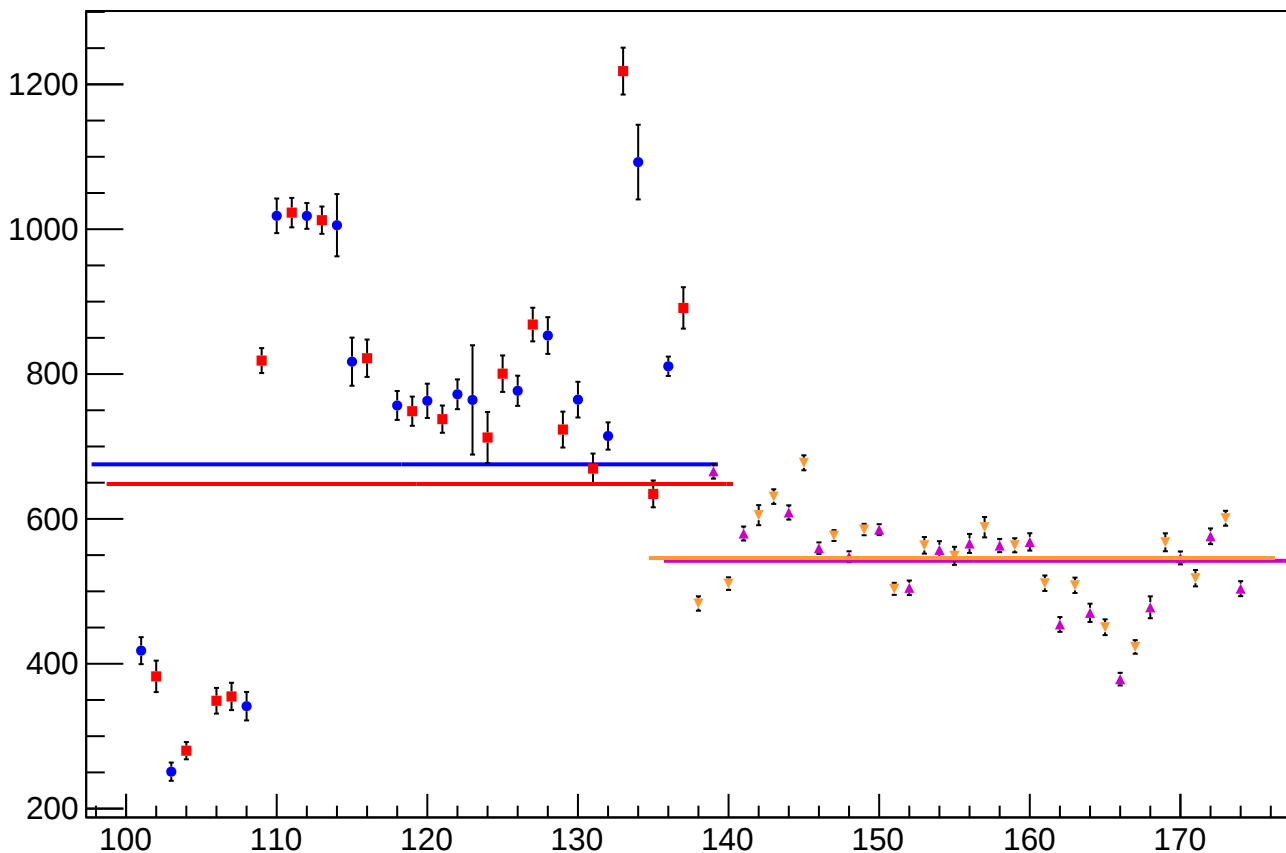
Right:  $-13.374 \pm 1.906$   $\chi^2/\text{NDF}$ : 727.1/34

In:  $0.268 \pm 1.423$   $\chi^2/\text{NDF}$ : 711.5/34

Out:  $2.721 \pm 1.364$   $\chi^2/\text{NDF}$ : 693.1/36

All:  $1.547 \pm 0.985$   $\chi^2/\text{NDF}$ : 1406.2/71

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 675.339 $\pm$ 5.046  $\chi^2$ /NDF: 2582.7/16

Left Out: 545.966 $\pm$ 2.313  $\chi^2$ /NDF: 698.2/18

Right Out: 648.229 $\pm$ 4.775  $\chi^2$ /NDF: 3059.0/17

Left In: 542.183 $\pm$ 2.314  $\chi^2$ /NDF: 770.9/17

Left: 544.075 $\pm$ 1.636  $\chi^2$ /NDF: 1470.5/36

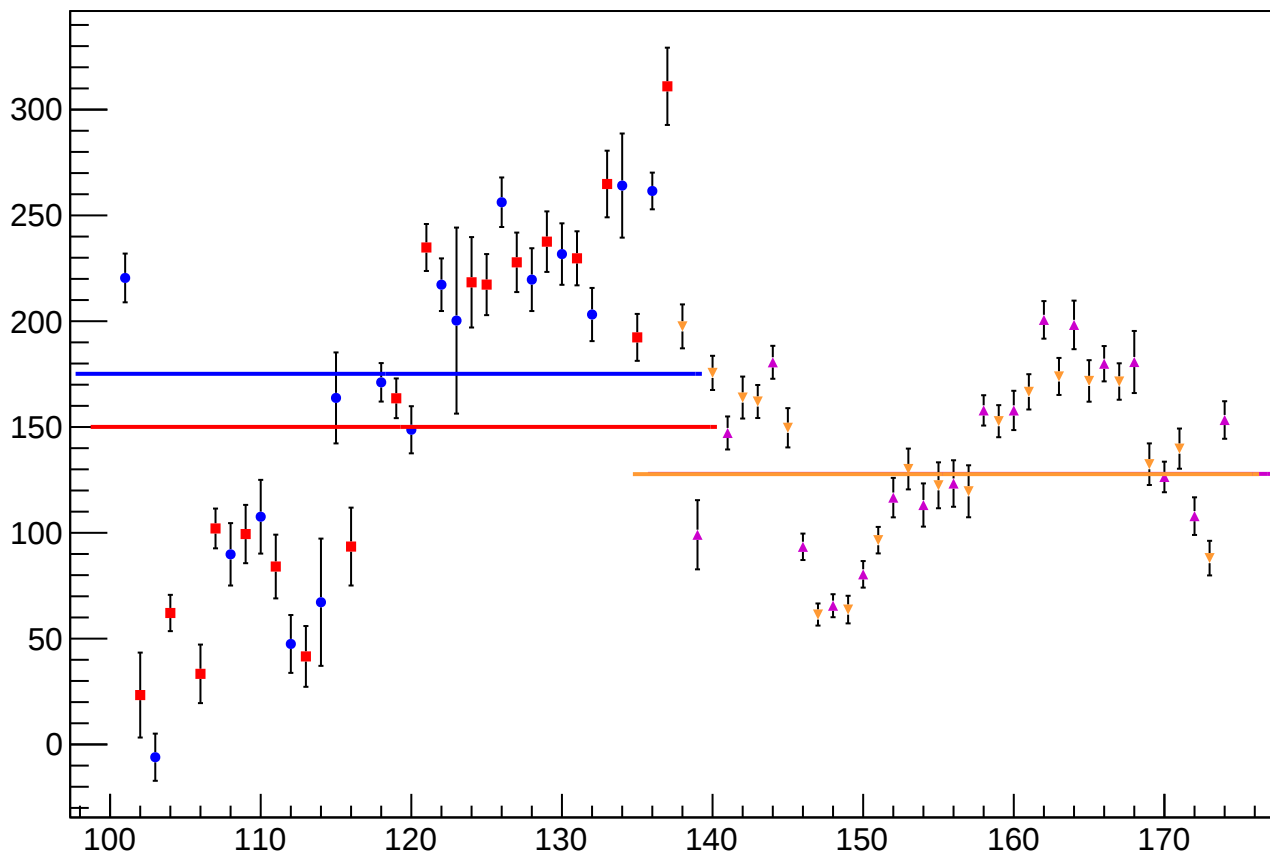
Right: 661.037 $\pm$ 3.468  $\chi^2$ /NDF: 5656.9/34

In: 565.315 $\pm$ 2.103  $\chi^2$ /NDF: 3929.1/34

Out: 565.400 $\pm$ 2.082  $\chi^2$ /NDF: 4128.7/36

All: 565.358 $\pm$ 1.479  $\chi^2$ /NDF: 8057.8/71

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 175.142 $\pm$ 3.209  $\chi^2$ /NDF: 635.6/16

Left Out: 127.737 $\pm$ 1.892  $\chi^2$ /NDF:533.4/18

Right Out: 150.054 $\pm$ 3.045  $\chi^2$ /NDF: 686.2/17

Left In: 127.854 $\pm$ 1.940  $\chi^2$ /NDF:475.9/17

Left: 127.794 $\pm$ 1.354  $\chi^2$ /NDF: 1009.3/36

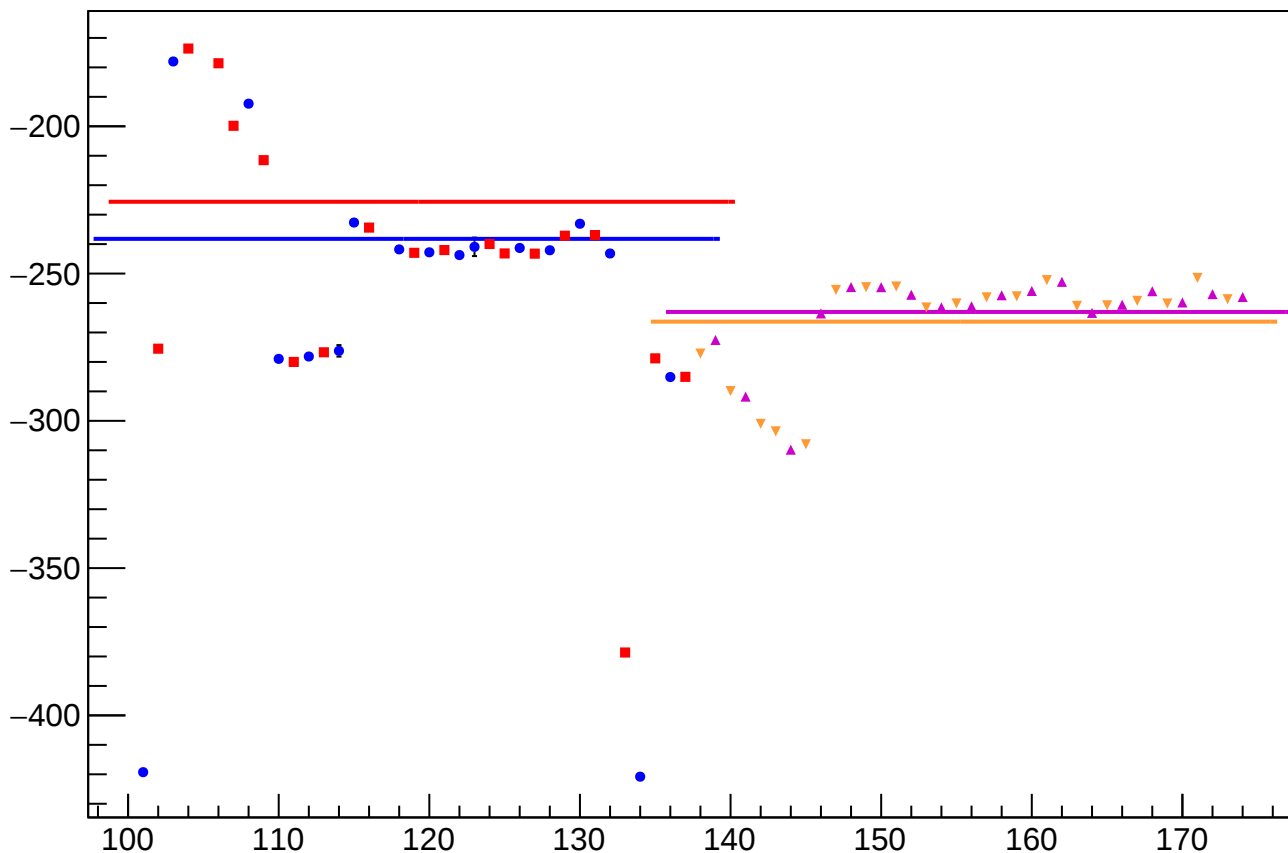
Right: 161.941 $\pm$ 2.209  $\chi^2$ /NDF: 1354.0/34

In: 140.507 $\pm$ 1.660  $\chi^2$ /NDF:1270.6/34

Out: 133.951 $\pm$ 1.607  $\chi^2$ /NDF:1258.3/36

All: 137.122 $\pm$ 1.155  $\chi^2$ /NDF: 2536.9/71

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: -266.319+/-0.092  $\chi^2/\text{NDF}$ : 35555.7/18

Right Out: -225.623+/-0.152  $\chi^2/\text{NDF}$ : 95450.2/17

Left In: -263.035+/-0.091  $\chi^2/\text{NDF}$ : 21419.1/17

Left: -264.664+/-0.065  $\chi^2/\text{NDF}$ : 57619.3/36

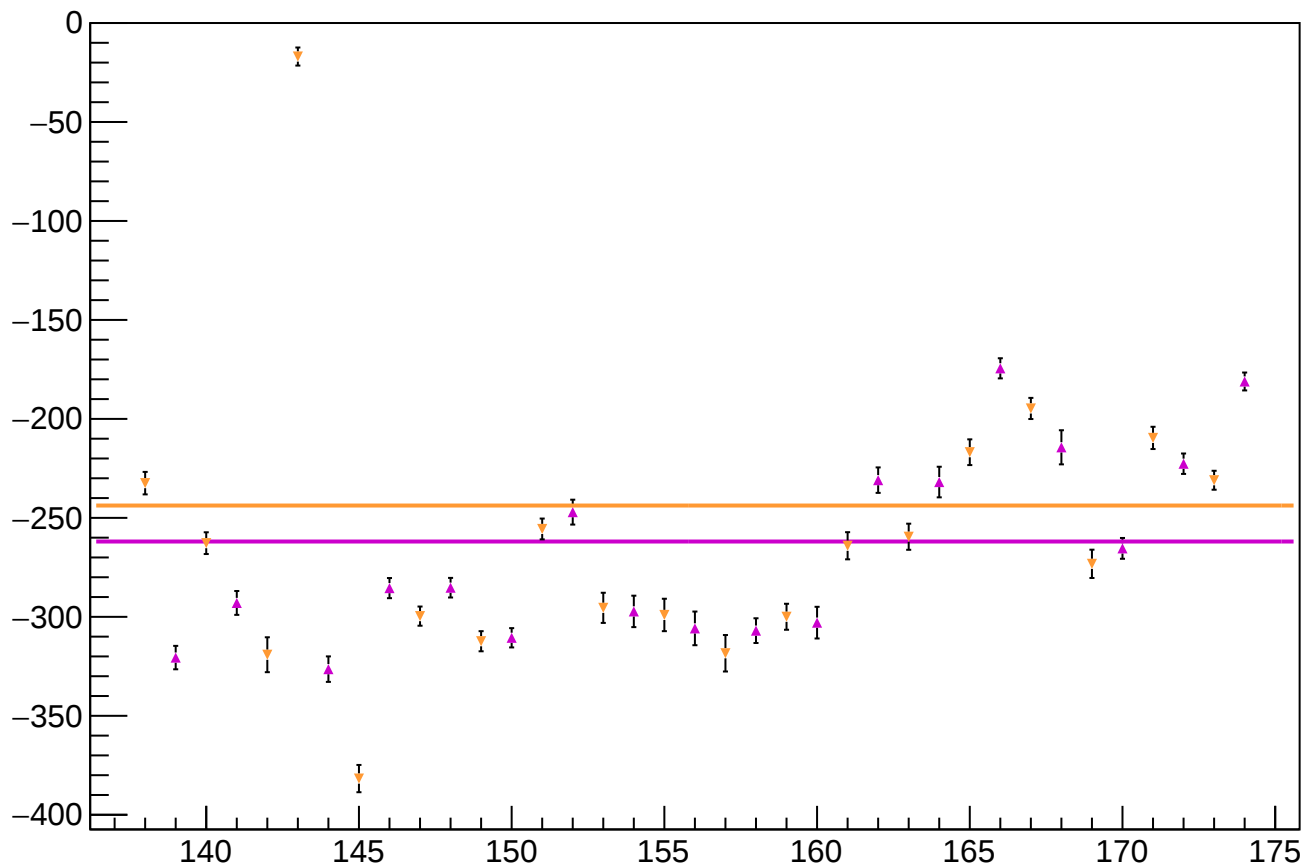
Right: -231.577+/-0.110  $\chi^2/\text{NDF}$ : 265811.9/34

In: -256.957+/-0.079  $\chi^2/\text{NDF}$ : 206671.1/34

Out: -255.390+/-0.079  $\chi^2/\text{NDF}$ : 183735.5/36

All: -256.167+/-0.056  $\chi^2/\text{NDF}$ : 390603.9/71

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: -243.765+/-1.375  $\chi^2/\text{NDF}$ :3688.8/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -261.945+/-1.395  $\chi^2/\text{NDF}$ :1240.9/17

Left: -252.723+/-0.980  $\chi^2/\text{NDF}$ : 5015.8/36

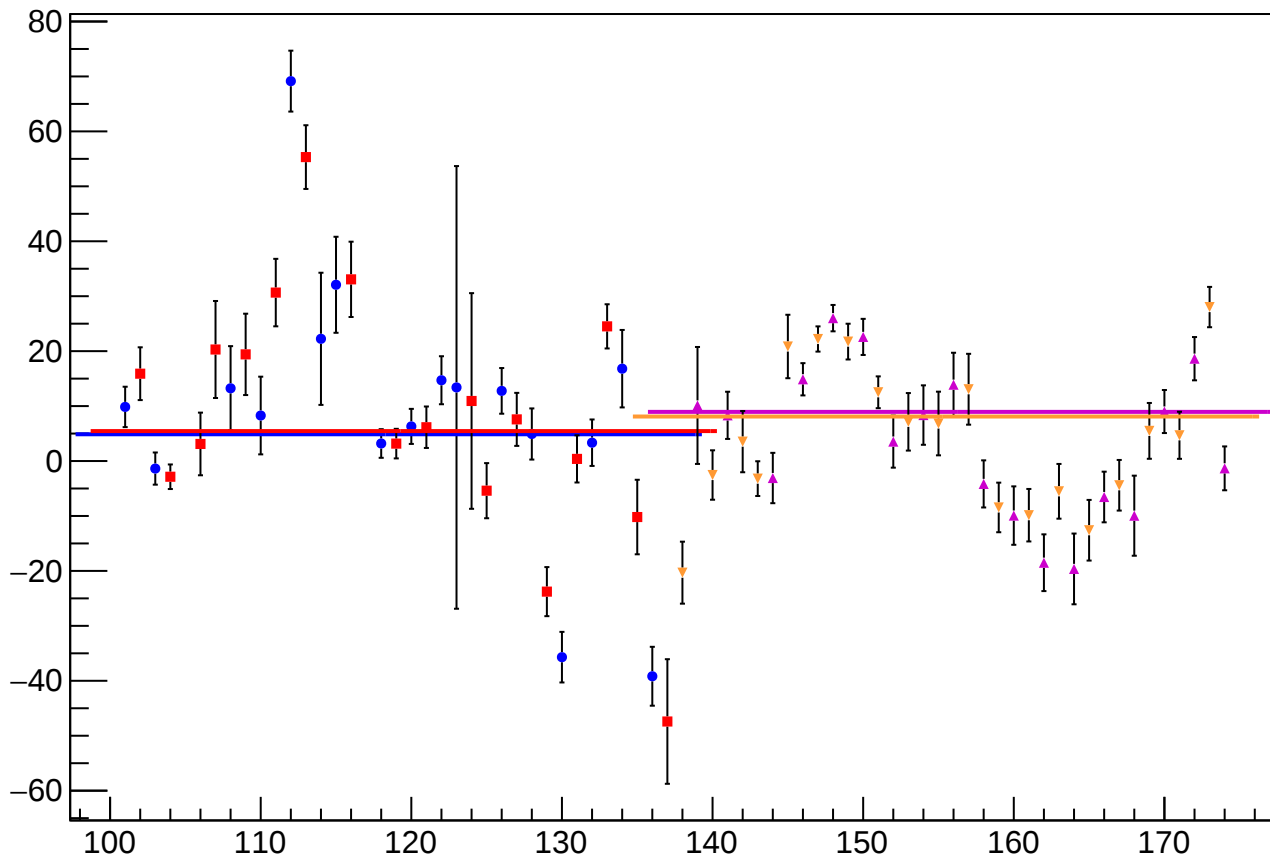
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -261.945+/-1.395  $\chi^2/\text{NDF}$ :1240.9/17

Out: -243.765+/-1.375  $\chi^2/\text{NDF}$ :3688.8/18

All: -252.723+/-0.980  $\chi^2/\text{NDF}$ : 5015.8/36

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.870+/-1.091  $\chi^2/\text{NDF}$ : 311.5/16

Left Out: 8.101+/-0.946  $\chi^2/\text{NDF}$ :194.5/18

Right Out: 5.450+/-1.071  $\chi^2/\text{NDF}$ : 231.5/17

Left In: 8.947+/-0.995  $\chi^2/\text{NDF}$ :181.4/17

Left: 8.503+/-0.685  $\chi^2/\text{NDF}$ : 376.3/36

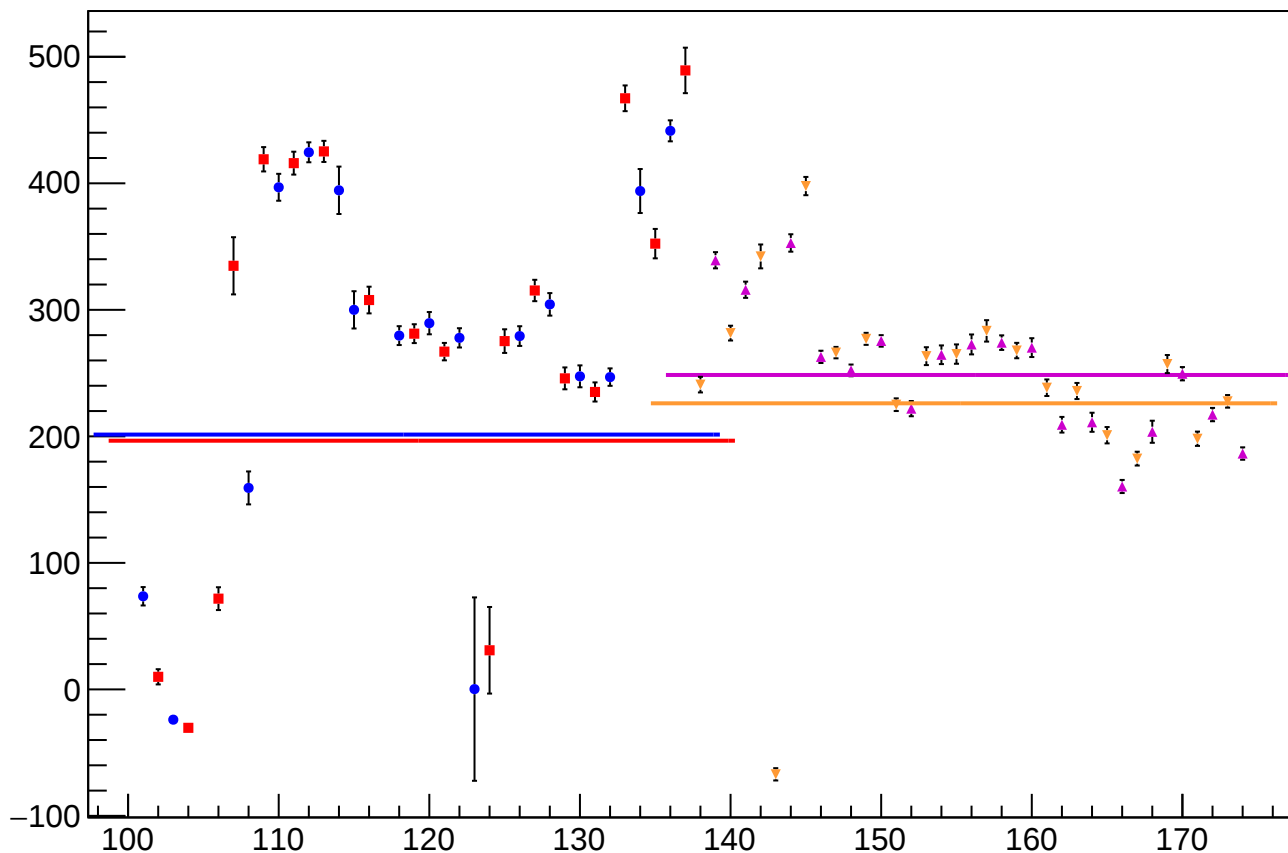
Right: 5.165+/-0.764  $\chi^2/\text{NDF}$ : 543.2/34

In: 7.096+/-0.735  $\chi^2/\text{NDF}$ :500.6/34

Out: 6.939+/-0.709  $\chi^2/\text{NDF}$ :429.5/36

All: 7.015+/-0.510  $\chi^2/\text{NDF}$ : 930.1/71

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: 226.115 $\pm$ 1.366  $\chi^2$ /NDF: 4910.5/18

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

Left In: 248.515 $\pm$ 1.381  $\chi^2$ /NDF: 1222.1/17

Left: 237.194 $\pm$ 0.971  $\chi^2$ /NDF: 6265.6/36

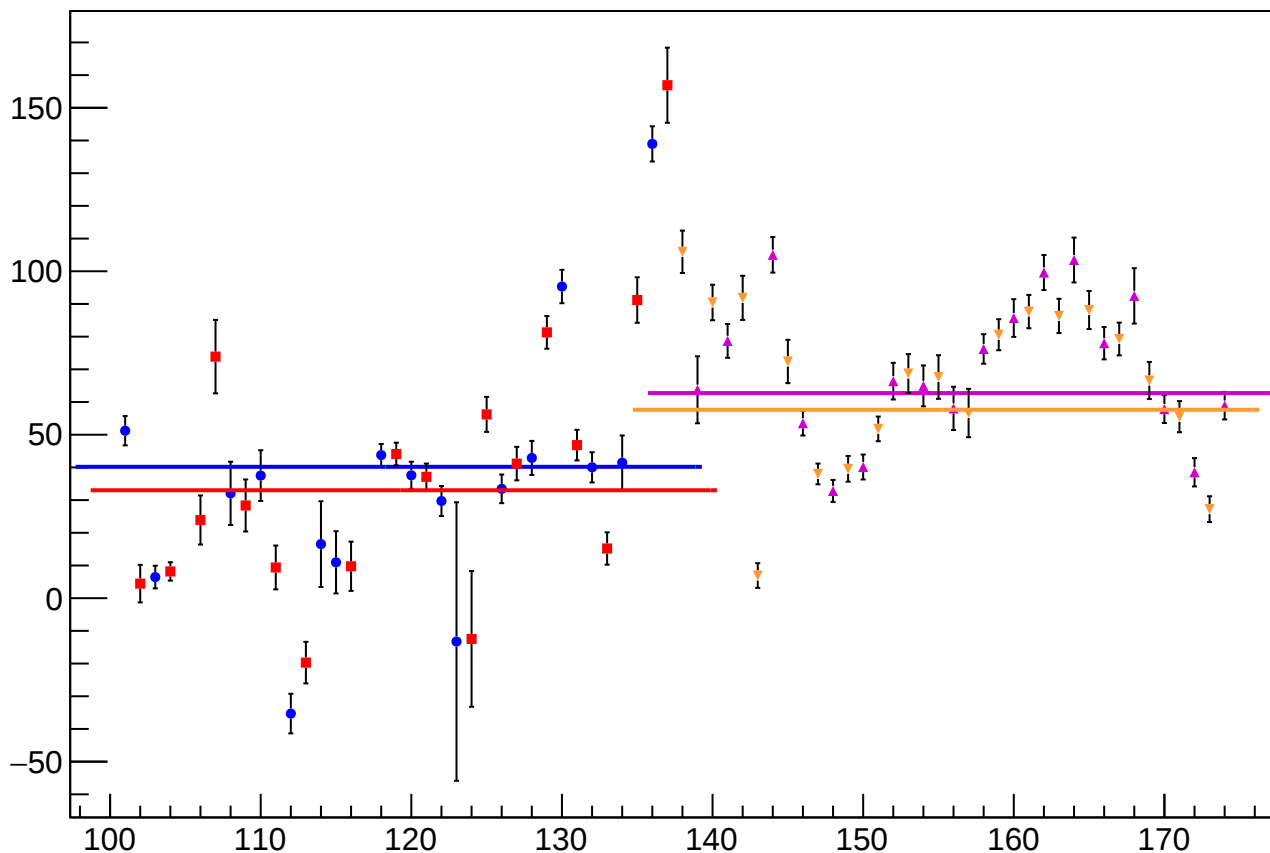
Right: 198.933 $\pm$ 1.380  $\chi^2$ /NDF: 14921.6/34

In: 233.034 $\pm$ 1.131  $\chi^2$ /NDF: 8345.0/34

Out: 216.261 $\pm$ 1.115  $\chi^2$ /NDF: 13244.6/36

All: 224.527 $\pm$ 0.794  $\chi^2$ /NDF: 21701.1/71

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 40.183 $\pm$ 1.270  $\chi^2$ /NDF: 734.0/16

Left Out: 57.639 $\pm$ 1.115  $\chi^2$ /NDF: 566.8/18

Right Out: 33.009 $\pm$ 1.253  $\chi^2$ /NDF: 547.2/17

Left In: 62.739 $\pm$ 1.160  $\chi^2$ /NDF: 354.0/17

Left: 60.089 $\pm$ 0.804  $\chi^2$ /NDF: 930.9/36

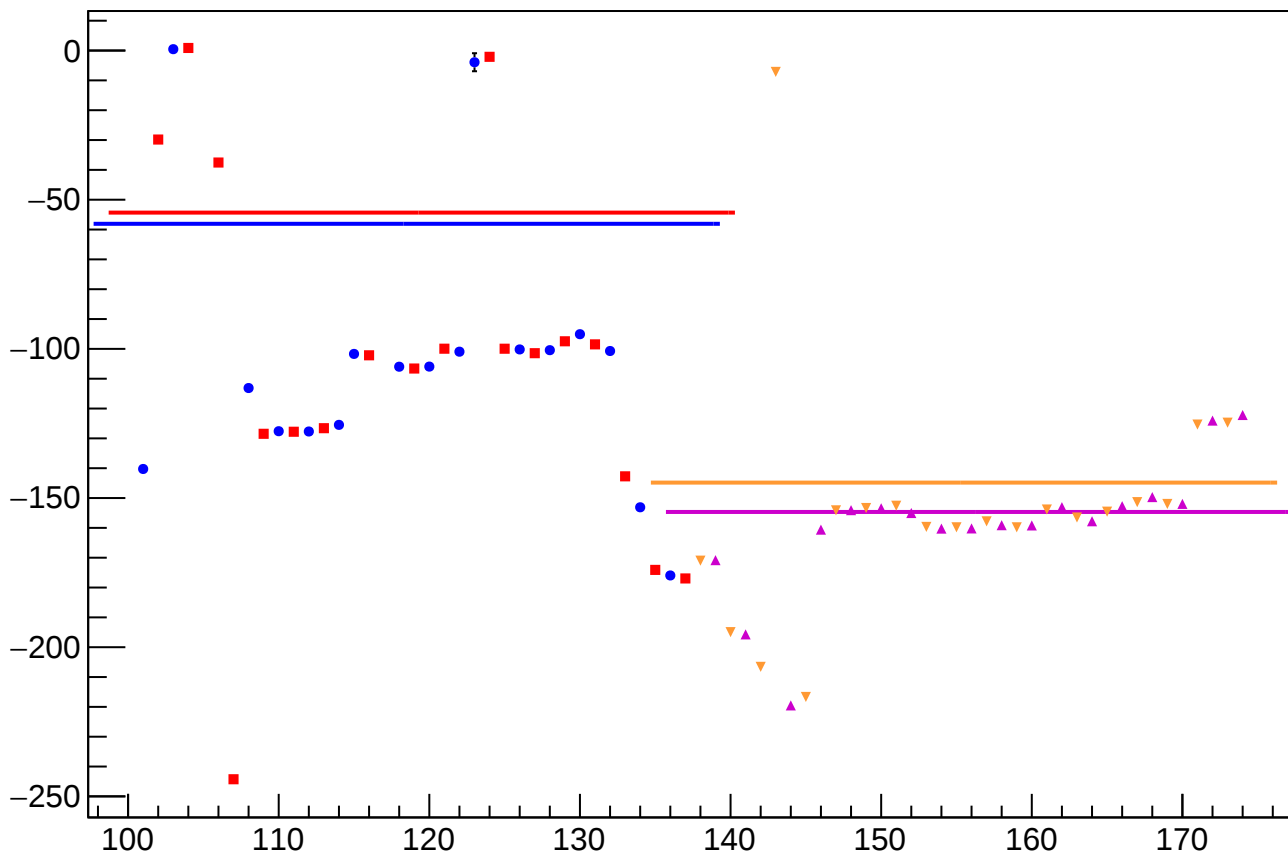
Right: 36.547 $\pm$ 0.892  $\chi^2$ /NDF: 1297.4/34

In: 52.482 $\pm$ 0.856  $\chi^2$ /NDF: 1260.1/34

Out: 46.752 $\pm$ 0.833  $\chi^2$ /NDF: 1329.6/36

All: 49.537 $\pm$ 0.597  $\chi^2$ /NDF: 2612.7/71

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: -144.824 $\pm$ 0.054  $\chi^2$ /NDF: 683143.3/18

Right Out: -54.323 $\pm$ 0.060  $\chi^2$ /NDF: 991053.6/17

Left In: -154.664 $\pm$ 0.054  $\chi^2$ /NDF: 139102.7/17

Left: -149.731 $\pm$ 0.038  $\chi^2$ /NDF: 838851.8/36

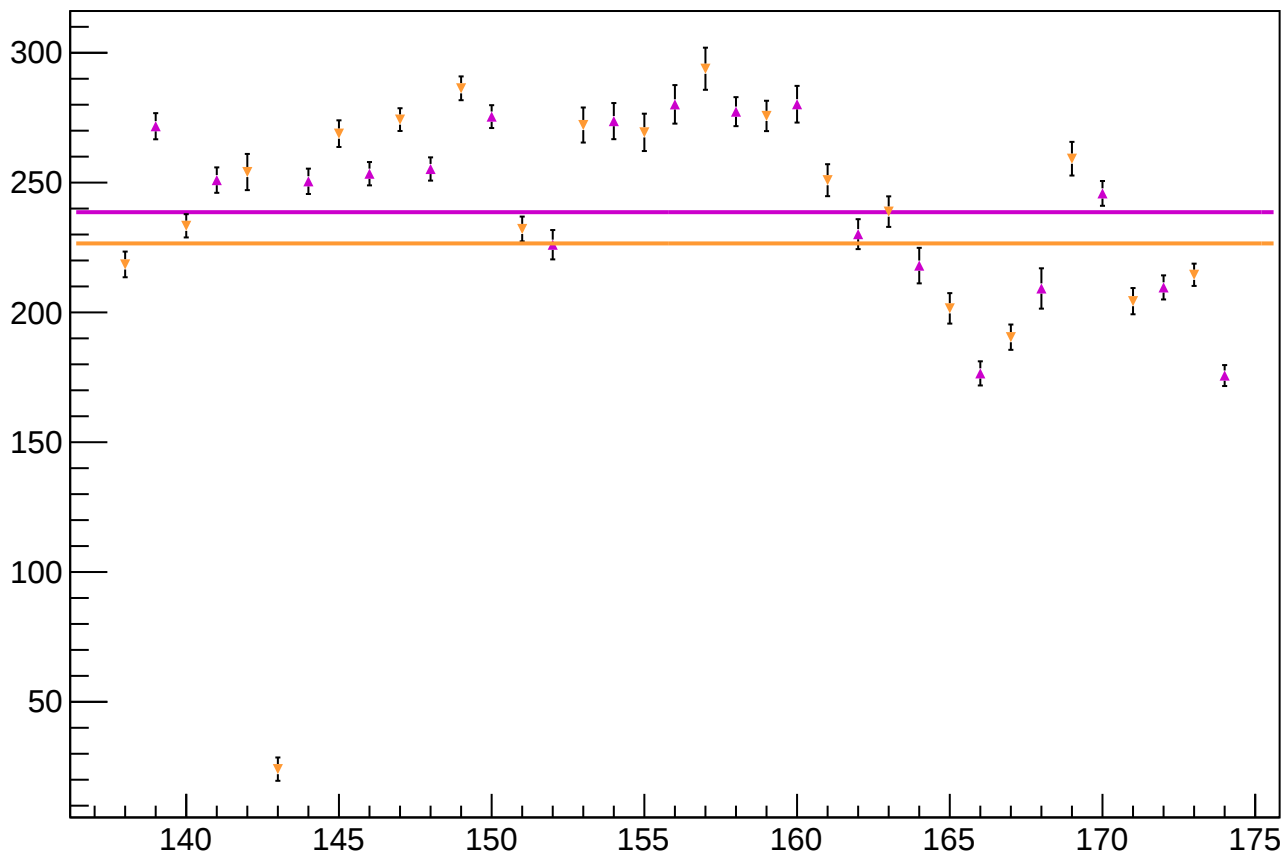
Right: -56.164 $\pm$ 0.043  $\chi^2$ /NDF: 2097382.5/34

In: -112.649 $\pm$ 0.041  $\chi^2$ /NDF: 2631710.5/34

Out: -104.711 $\pm$ 0.040  $\chi^2$ /NDF: 2922591.8/36

All: -108.640 $\pm$ 0.029  $\chi^2$ /NDF: 5573567.3/71

reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 226.573+/-1.220  $\chi^2/\text{NDF}$ :2776.9/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 238.605+/-1.229  $\chi^2/\text{NDF}$ :782.8/17

Left: 232.545+/-0.866  $\chi^2/\text{NDF}$ : 3607.9/36

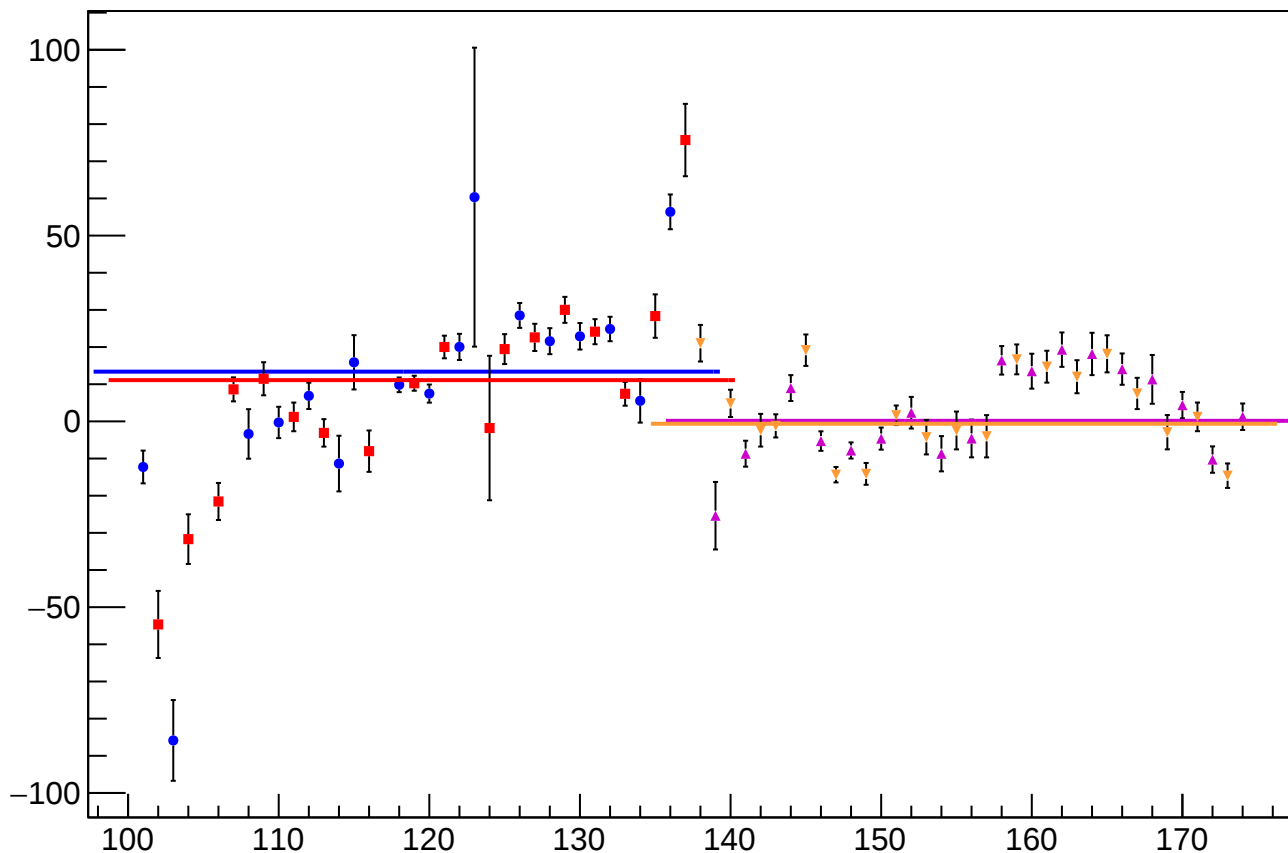
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 238.605+/-1.229  $\chi^2/\text{NDF}$ :782.8/17

Out: 226.573+/-1.220  $\chi^2/\text{NDF}$ :2776.9/18

All: 232.545+/-0.866  $\chi^2/\text{NDF}$ : 3607.9/36

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:  $-0.642 \pm 0.844$   $\chi^2/\text{NDF}: 186.2/18$

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}: 292.2/17$

Left In:  $0.149 \pm 0.879$   $\chi^2/\text{NDF}: 122.9/17$

Left:  $-0.262 \pm 0.609$   $\chi^2/\text{NDF}: 309.5/36$

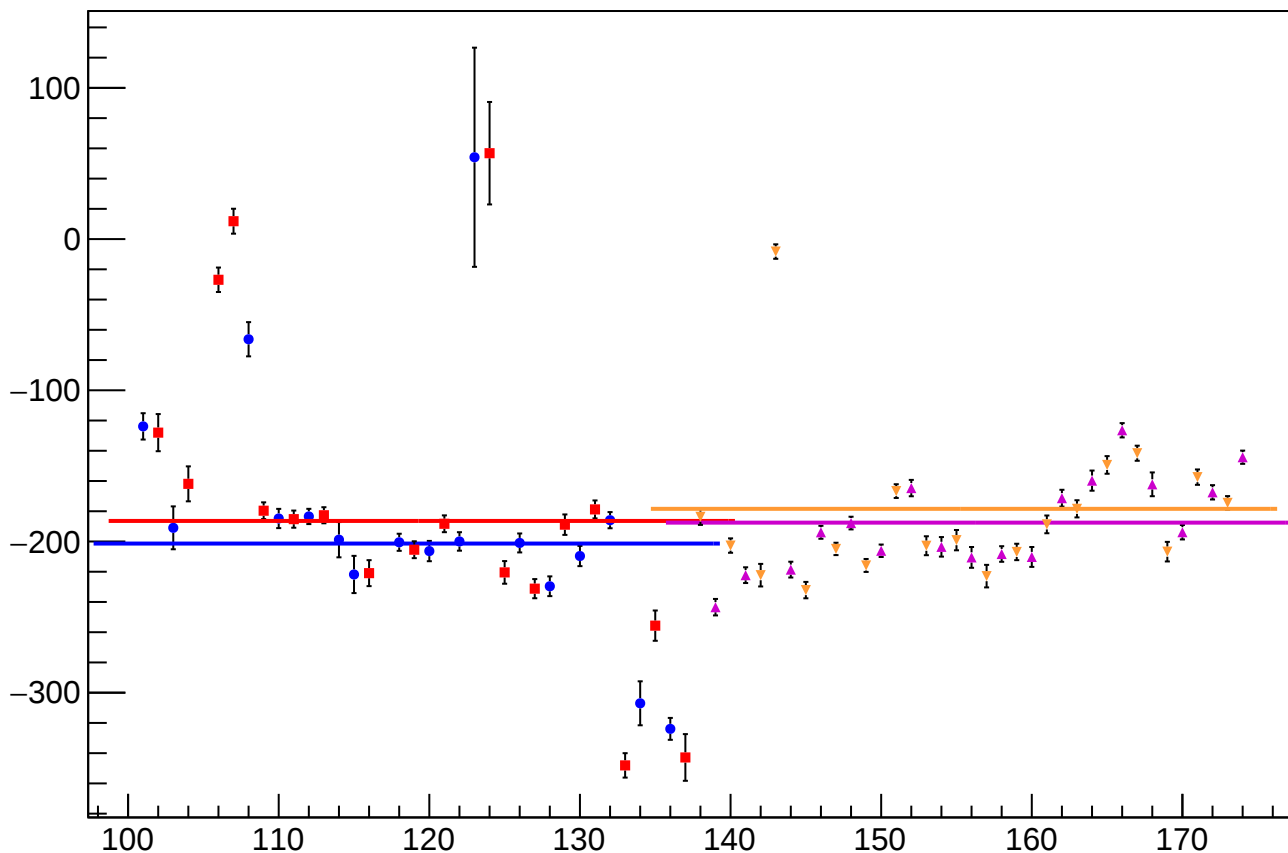
Right:  $12.236 \pm 0.649$   $\chi^2/\text{NDF}: 589.4/34$

In:  $6.460 \pm 0.636$   $\chi^2/\text{NDF}: 525.0/34$

Out:  $4.753 \pm 0.620$   $\chi^2/\text{NDF}: 567.4/36$

All:  $5.585 \pm 0.444$   $\chi^2/\text{NDF}: 1096.1/71$

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:  $-178.406 \pm 1.214$   $\chi^2/\text{NDF}: 1753.0/18$

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}: 1699.5/17$

Left In:  $-187.535 \pm 1.219$   $\chi^2/\text{NDF}: 590.9/17$

Left:  $-182.952 \pm 0.860$   $\chi^2/\text{NDF}: 2372.1/36$

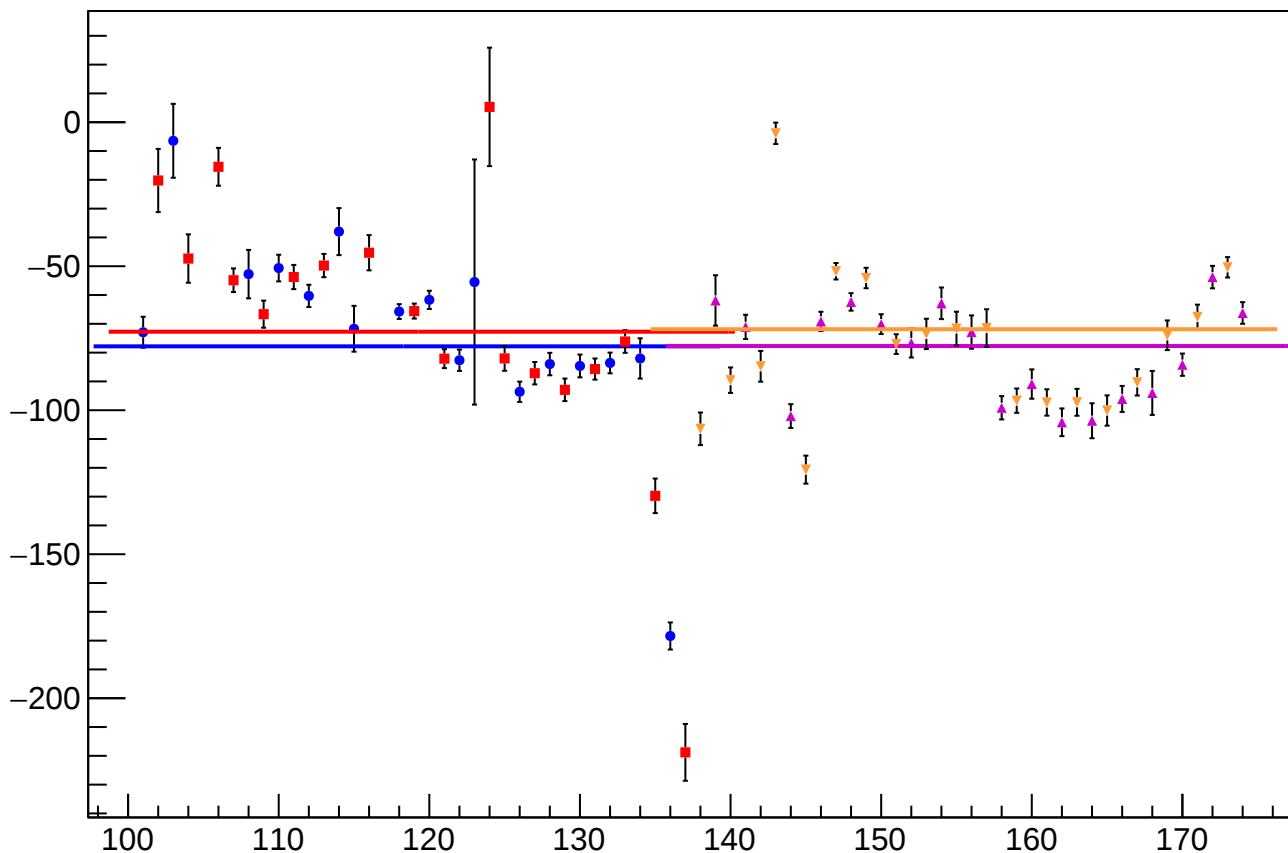
Right:  $-193.544 \pm 1.232$   $\chi^2/\text{NDF}: 2361.2/34$

In:  $-191.938 \pm 1.006$   $\chi^2/\text{NDF}: 1256.9/34$

Out:  $-181.101 \pm 0.989$   $\chi^2/\text{NDF}: 3467.1/36$

All:  $-186.423 \pm 0.705$   $\chi^2/\text{NDF}: 4783.0/71$

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:  $-71.872 \pm 0.994$   $\chi^2/\text{NDF}$ : 748.9/18

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

Left In:  $-77.708 \pm 1.025$   $\chi^2/\text{NDF}$ : 239.5/17

Left:  $-74.700 \pm 0.713$   $\chi^2/\text{NDF}$ : 1005.1/36

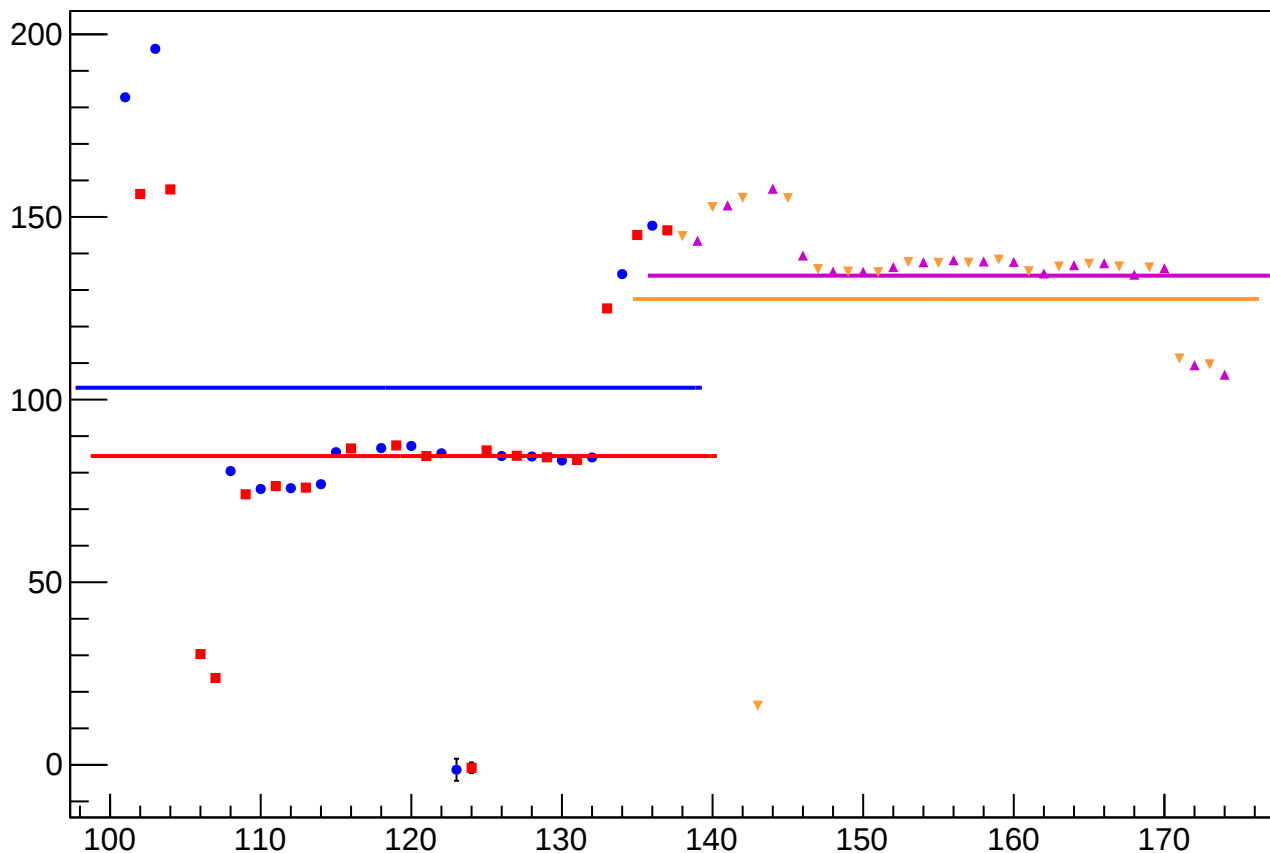
Right:  $-75.241 \pm 0.750$   $\chi^2/\text{NDF}$ : 1266.8/34

In:  $-77.761 \pm 0.739$   $\chi^2/\text{NDF}$ : 895.8/34

Out:  $-72.278 \pm 0.723$   $\chi^2/\text{NDF}$ : 1348.2/36

All:  $-74.957 \pm 0.517$   $\chi^2/\text{NDF}$ : 2272.2/71

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: 127.521 $\pm$ 0.048  $\chi^2$ /NDF: 423045.4/18

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

Left In: 133.937 $\pm$ 0.048  $\chi^2$ /NDF: 74580.0/17

Left: 130.739 $\pm$ 0.034  $\chi^2$ /NDF: 506622.6/36

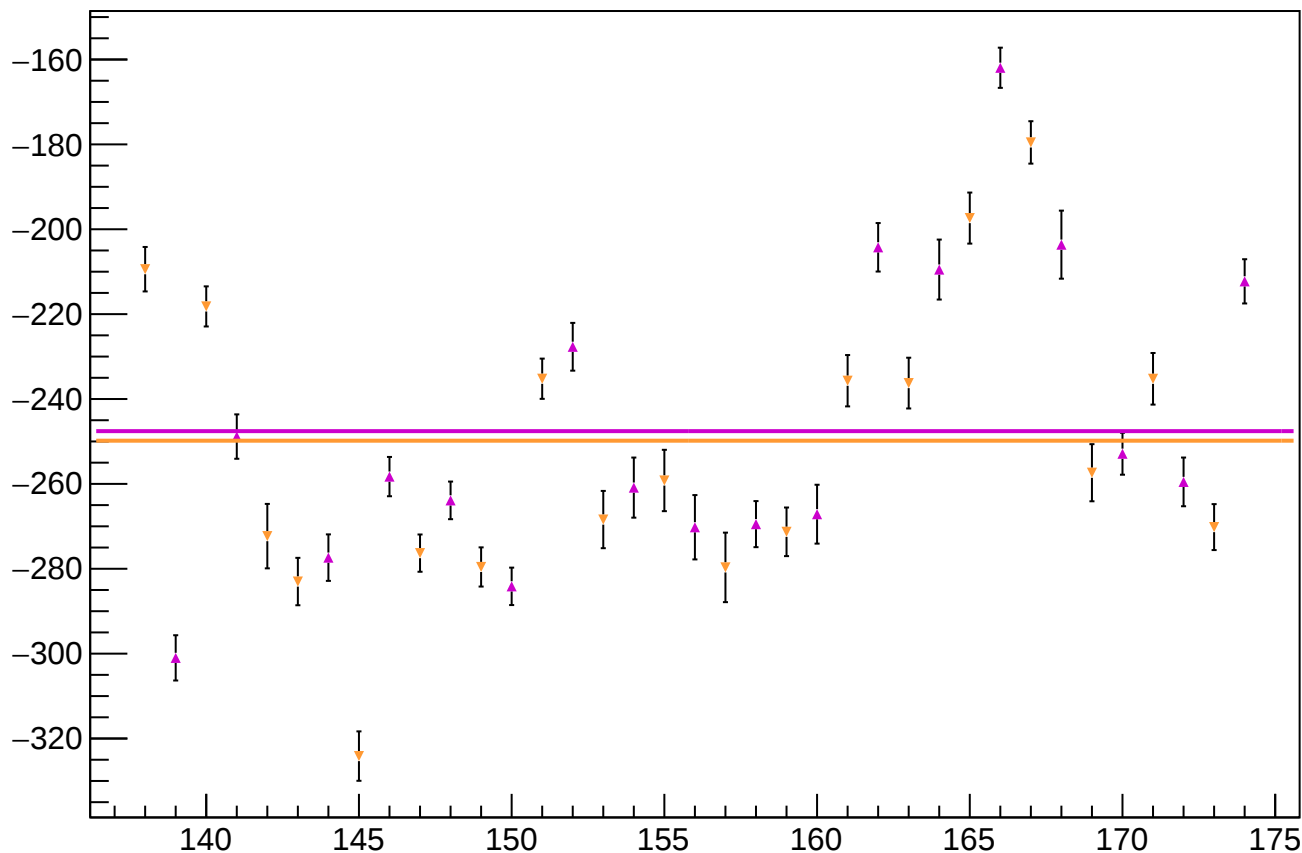
Right: 92.986 $\pm$ 0.047  $\chi^2$ /NDF: 723450.6/34

In: 124.277 $\pm$ 0.040  $\chi^2$ /NDF: 477974.5/34

Out: 112.064 $\pm$ 0.038  $\chi^2$ /NDF: 1124011.3/36

All: 117.982 $\pm$ 0.028  $\chi^2$ /NDF: 1651184.1/71

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: -249.822+/-1.295  $\chi^2/\text{NDF}$ :741.0/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -247.571+/-1.295  $\chi^2/\text{NDF}$ :761.8/17

Left: -248.696+/-0.916  $\chi^2/\text{NDF}$ : 1504.3/36

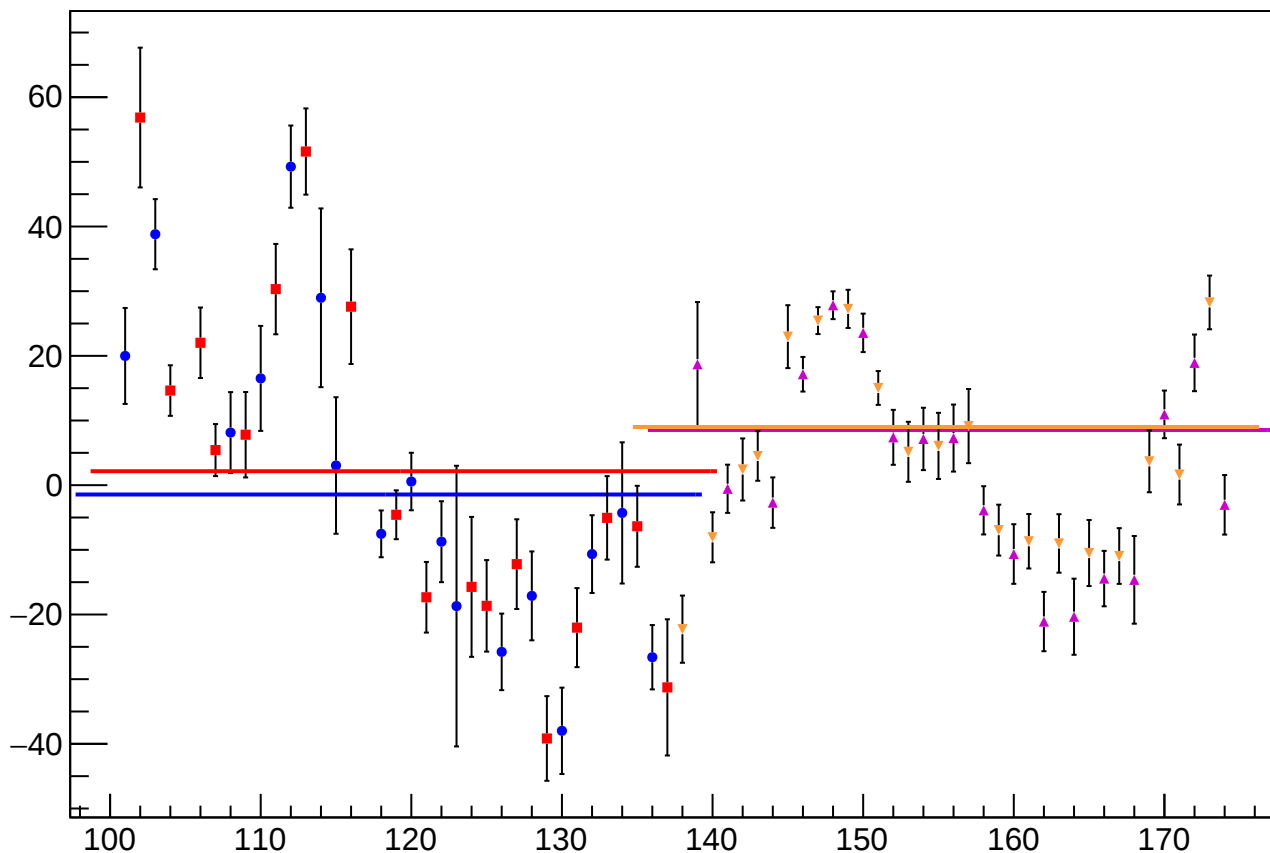
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -247.571+/-1.295  $\chi^2/\text{NDF}$ :761.8/17

Out: -249.822+/-1.295  $\chi^2/\text{NDF}$ :741.0/18

All: -248.696+/-0.916  $\chi^2/\text{NDF}$ : 1504.3/36

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:  $8.998 \pm 0.886$   $\chi^2/\text{NDF}$ : 285.3/18

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}$ : 230.2/17

Left In:  $8.538 \pm 0.914$   $\chi^2/\text{NDF}$ : 278.9/17

Left:  $8.776 \pm 0.636$   $\chi^2/\text{NDF}$ : 564.4/36

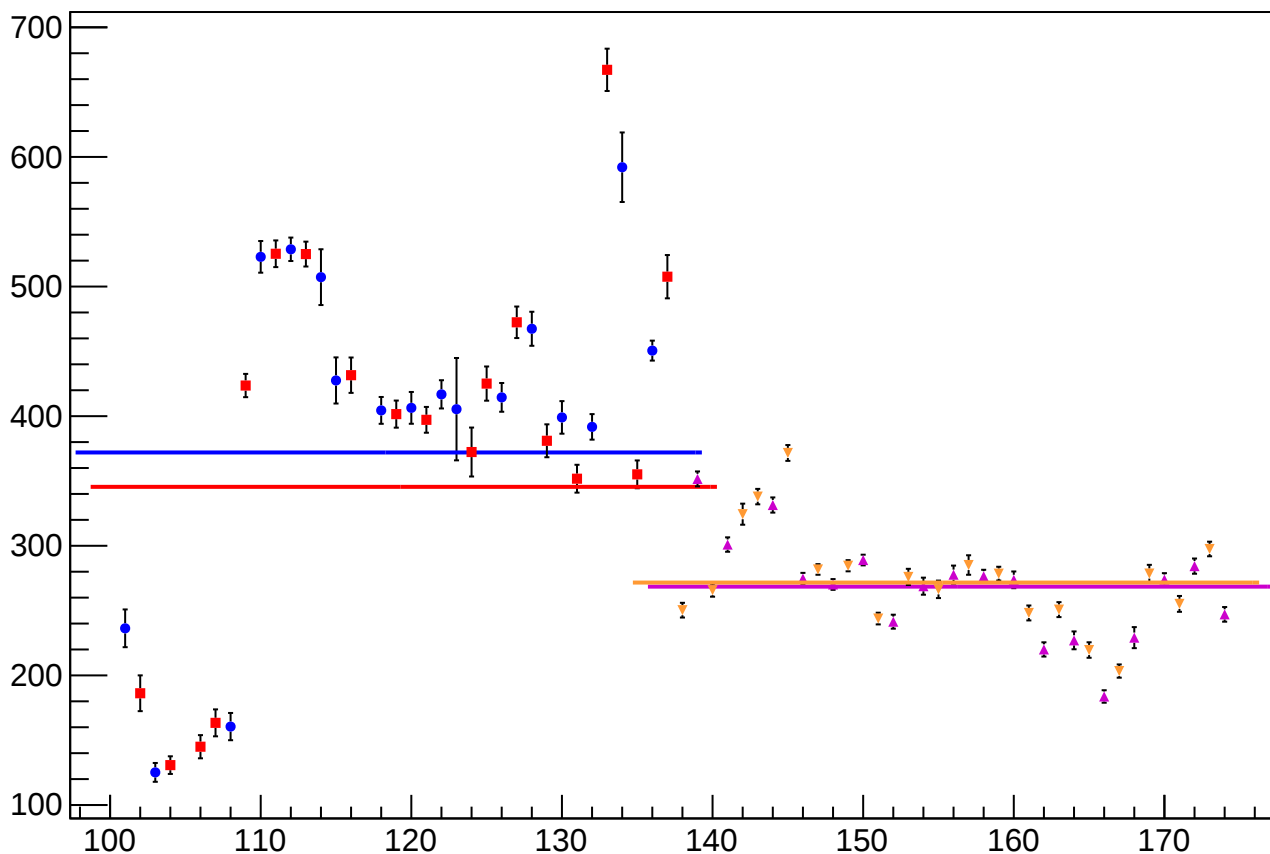
Right:  $0.500 \pm 1.029$   $\chi^2/\text{NDF}$ : 457.6/34

In:  $5.879 \pm 0.783$   $\chi^2/\text{NDF}$ : 535.1/34

Out:  $7.045 \pm 0.749$   $\chi^2/\text{NDF}$ : 532.5/36

All:  $6.488 \pm 0.541$   $\chi^2/\text{NDF}$ : 1068.8/71

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 371.997 $\pm$ 2.765     $\chi^2$ /NDF: 2431.2/16

Left Out: 271.632 $\pm$ 1.280     $\chi^2$ /NDF:821.3/18

Right Out: 345.473 $\pm$ 2.564     $\chi^2$ /NDF: 3401.6/17

Left In: 268.486 $\pm$ 1.276     $\chi^2$ /NDF:882.6/17

Left: 270.053 $\pm$ 0.904     $\chi^2$ /NDF: 1706.9/36

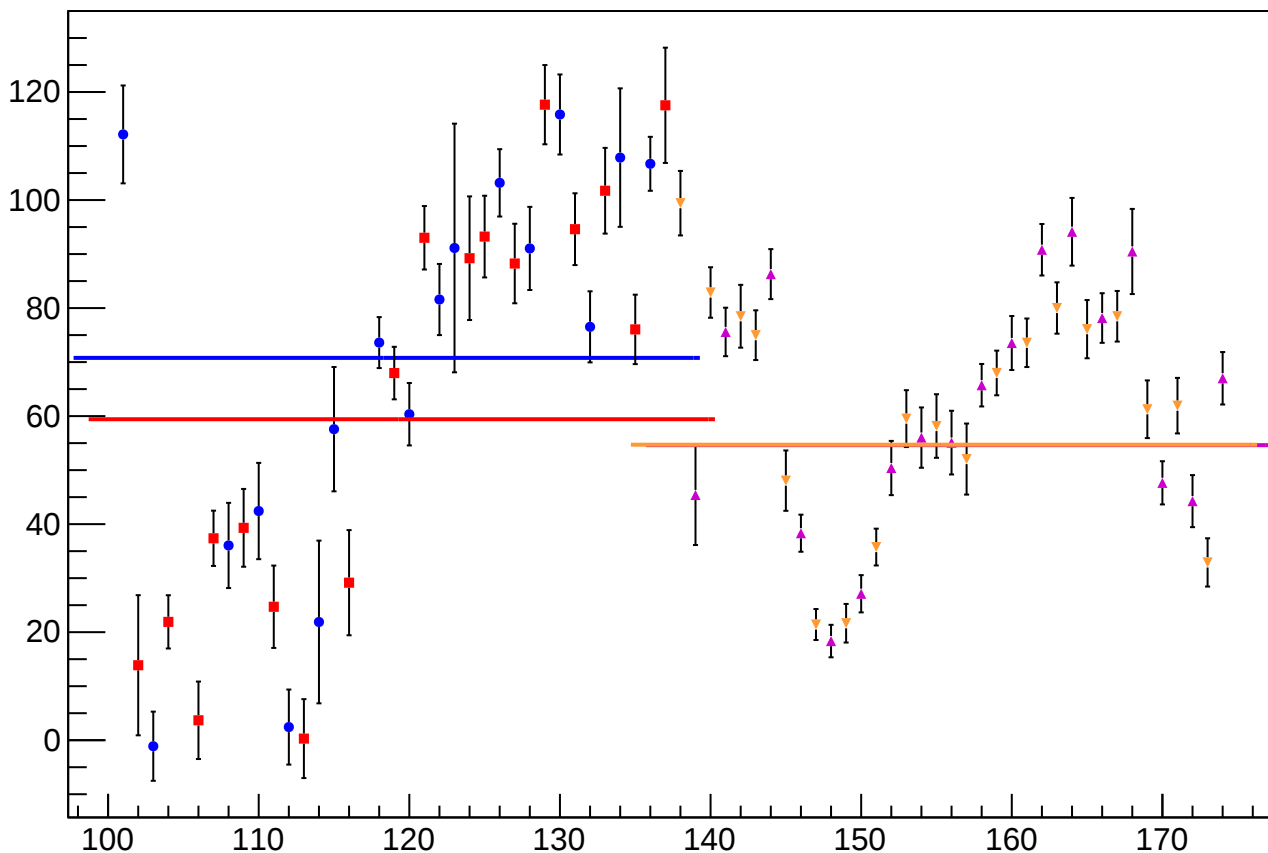
Right: 357.739 $\pm$ 1.880     $\chi^2$ /NDF: 5882.3/34

In: 286.659 $\pm$ 1.158     $\chi^2$ /NDF:4469.4/34

Out: 286.369 $\pm$ 1.146     $\chi^2$ /NDF:4886.6/36

All: 286.512 $\pm$ 0.815     $\chi^2$ /NDF: 9356.1/71

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: 54.709 $\pm$ 1.047  $\chi^2$ /NDF:507.4/18

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

Left In: 54.625 $\pm$ 1.070  $\chi^2$ /NDF:482.7/17

Left: 54.668 $\pm$ 0.748  $\chi^2$ /NDF: 990.1/36

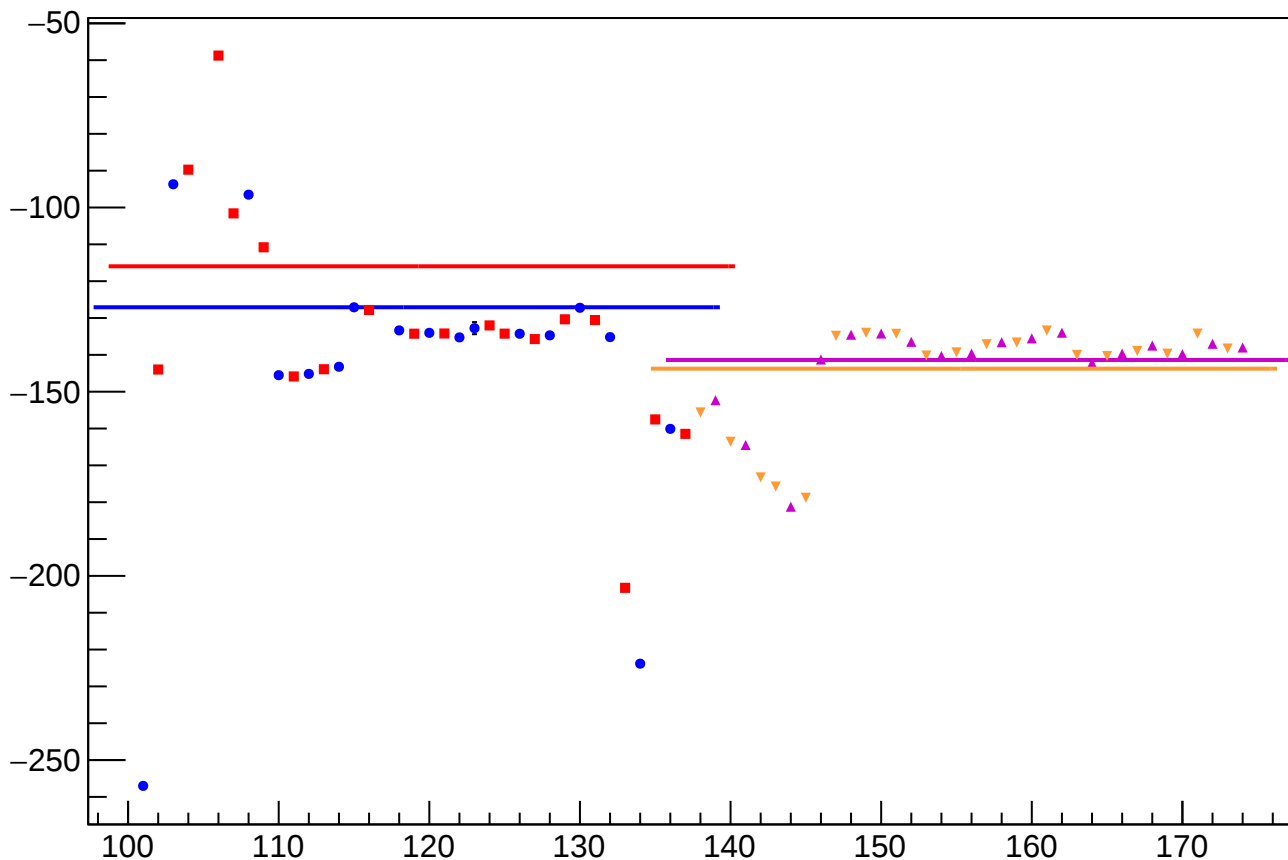
Right: 64.716 $\pm$ 1.193  $\chi^2$ /NDF: 933.1/34

In: 59.033 $\pm$ 0.912  $\chi^2$ /NDF:968.8/34

Out: 56.084 $\pm$ 0.881  $\chi^2$ /NDF:999.9/36

All: 57.507 $\pm$ 0.634  $\chi^2$ /NDF: 1974.1/71

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: -143.747+/-0.051  $\chi^2/\text{NDF}$ : 73976.9/18

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

Left In: -141.393+/-0.050  $\chi^2/\text{NDF}$ : 44804.3/17

Left: -142.557+/-0.036  $\chi^2/\text{NDF}$ : 119868.2/36

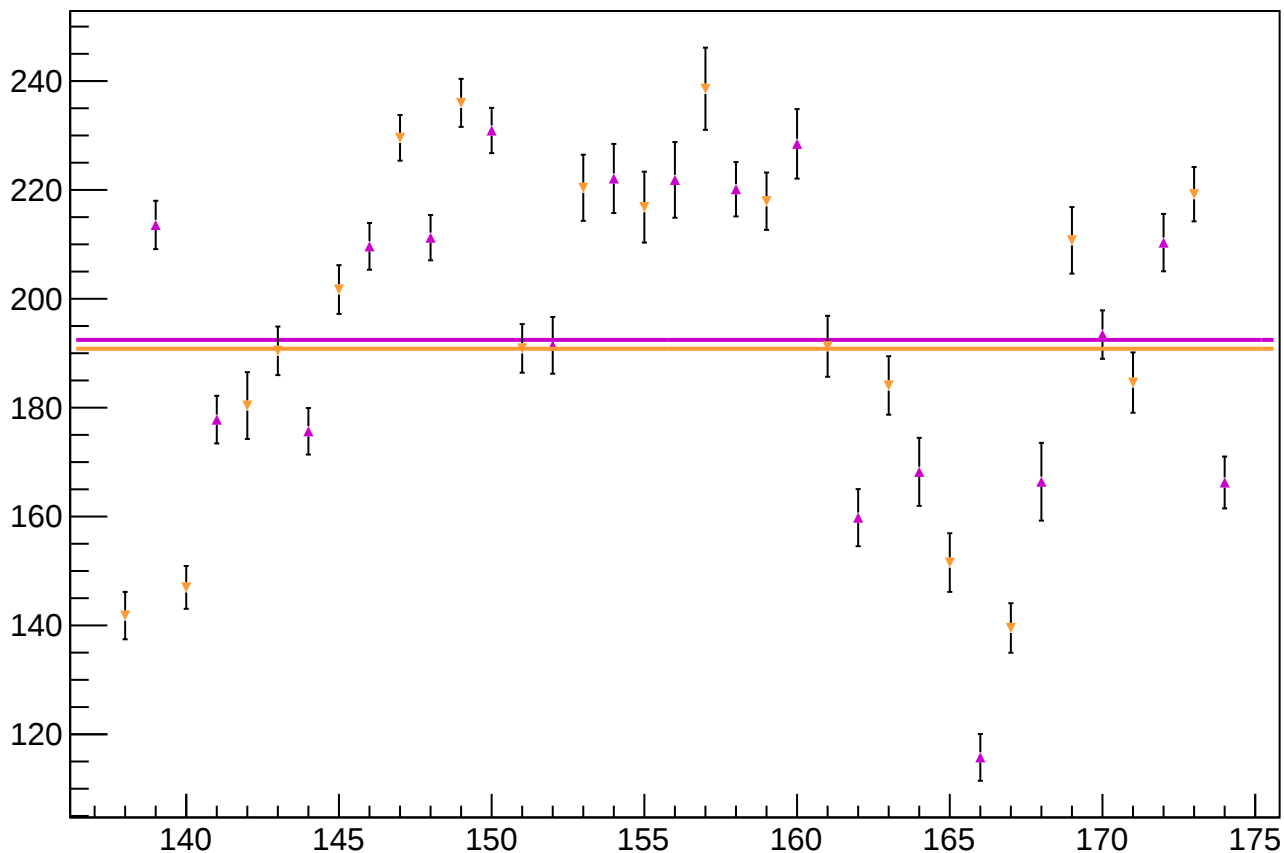
Right: -121.099+/-0.061  $\chi^2/\text{NDF}$ : 334303.0/34

In: -137.968+/-0.044  $\chi^2/\text{NDF}$ : 231289.3/34

Out: -136.185+/-0.043  $\chi^2/\text{NDF}$ : 314509.1/36

All: -137.067+/-0.031  $\chi^2/\text{NDF}$ : 546637.3/71

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: 190.824+/-1.150  $\chi^2/\text{NDF}$ : 782.7/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 192.452+/-1.162  $\chi^2/\text{NDF}$ : 700.2/17

Left: 191.630+/-0.817  $\chi^2/\text{NDF}$ : 1483.8/36

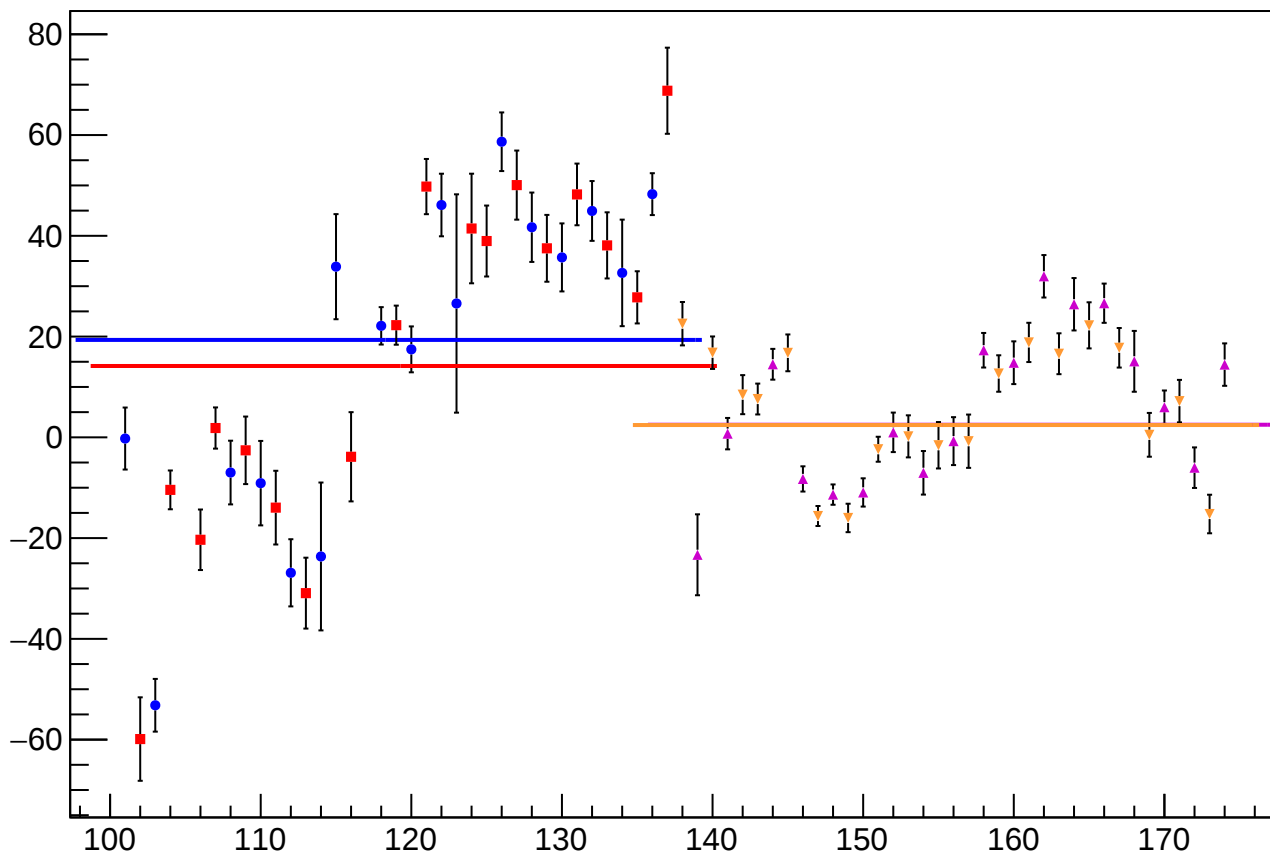
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 192.452+/-1.162  $\chi^2/\text{NDF}$ : 700.2/17

Out: 190.824+/-1.150  $\chi^2/\text{NDF}$ : 782.7/18

All: 191.630+/-0.817  $\chi^2/\text{NDF}$ : 1483.8/36

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:  $2.443 \pm 0.797$   $\chi^2/\text{NDF}$ : 287.5/18

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}$ : 426.0/17

Left In:  $2.501 \pm 0.828$   $\chi^2/\text{NDF}$ : 273.6/17

Left:  $2.471 \pm 0.574$   $\chi^2/\text{NDF}$ : 561.1/36

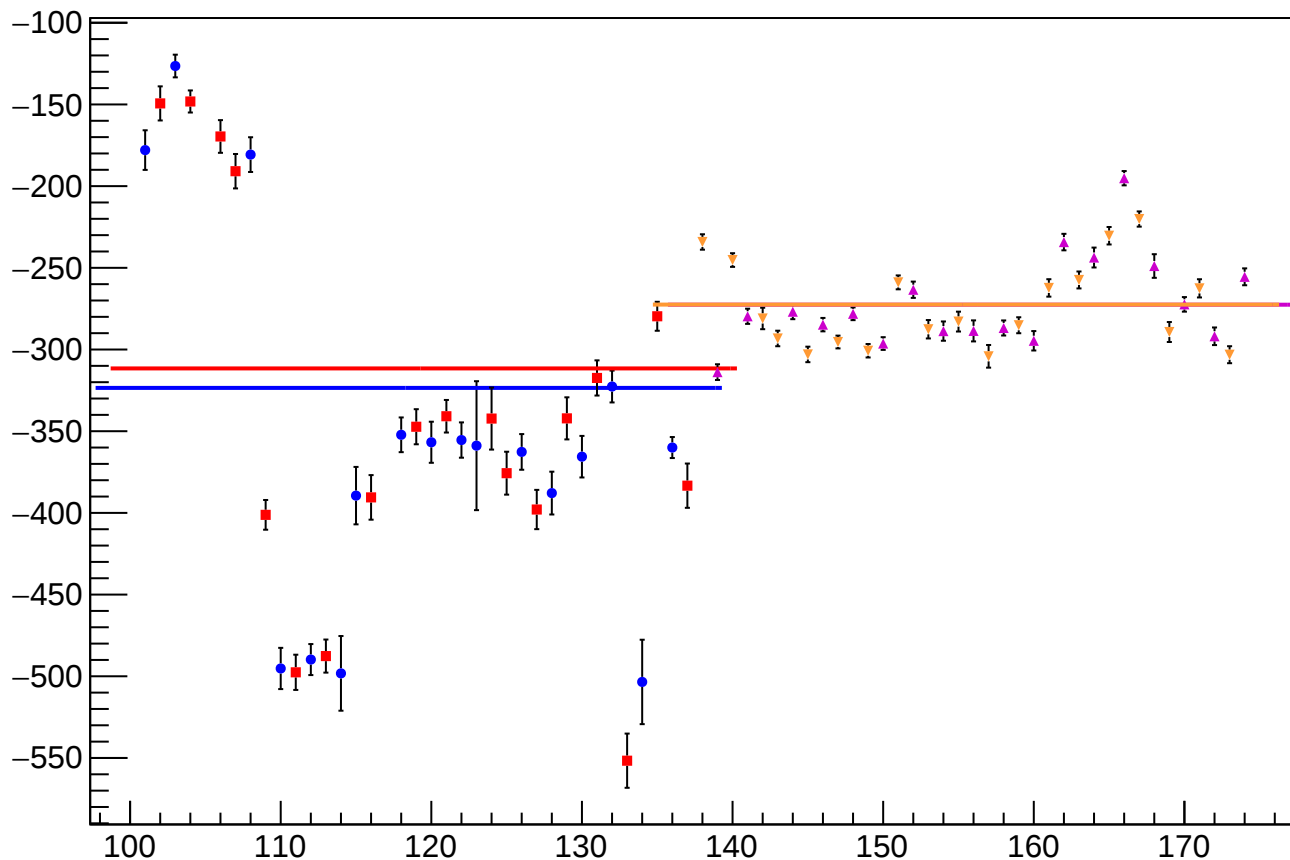
Right:  $16.585 \pm 1.014$   $\chi^2/\text{NDF}$ : 872.4/34

In:  $6.509 \pm 0.723$   $\chi^2/\text{NDF}$ : 811.7/34

Out:  $5.339 \pm 0.692$   $\chi^2/\text{NDF}$ : 766.9/36

All:  $5.898 \pm 0.500$   $\chi^2/\text{NDF}$ : 1580.1/71

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -323.491 $\pm$ 2.673  $\chi^2$ /NDF: 1847.6/16

Left Out: -272.500 $\pm$ 1.144  $\chi^2$ /NDF:545.4/18

Right Out: -311.573 $\pm$ 2.527  $\chi^2$ /NDF: 2243.8/17

Left In: -272.572 $\pm$ 1.150  $\chi^2$ /NDF:592.6/17

Left: -272.536 $\pm$ 0.811  $\chi^2$ /NDF: 1138.0/36

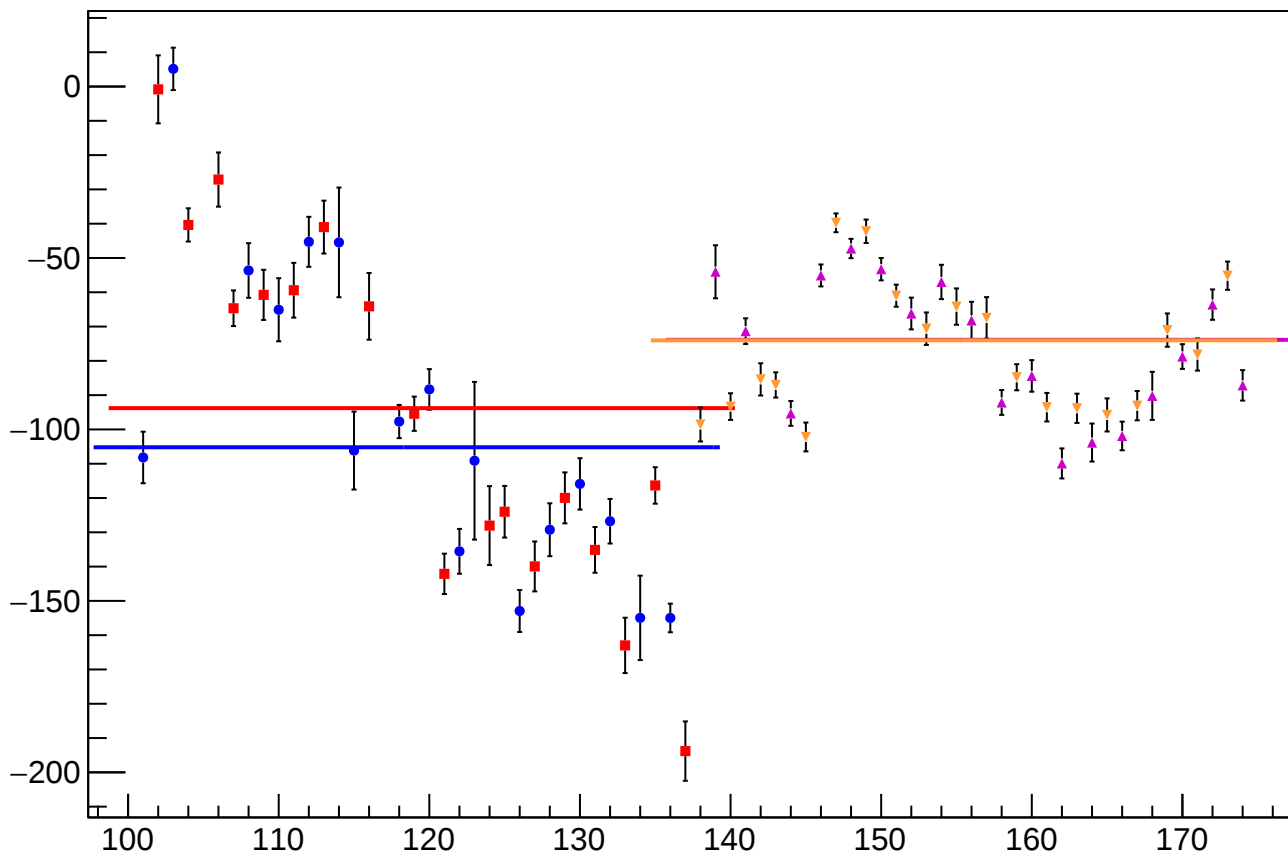
Right: -317.199 $\pm$ 1.836  $\chi^2$ /NDF: 4101.9/34

In: -280.522 $\pm$ 1.056  $\chi^2$ /NDF:2746.4/34

Out: -279.149 $\pm$ 1.042  $\chi^2$ /NDF:2987.6/36

All: -279.827 $\pm$ 0.742  $\chi^2$ /NDF: 5734.9/71

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:  $-74.023 \pm 0.940$   $\chi^2/\text{NDF}$ : 491.4/18

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

Left In:  $-73.867 \pm 0.968$   $\chi^2/\text{NDF}$ : 415.4/17

Left:  $-73.947 \pm 0.674$   $\chi^2/\text{NDF}$ : 906.8/36

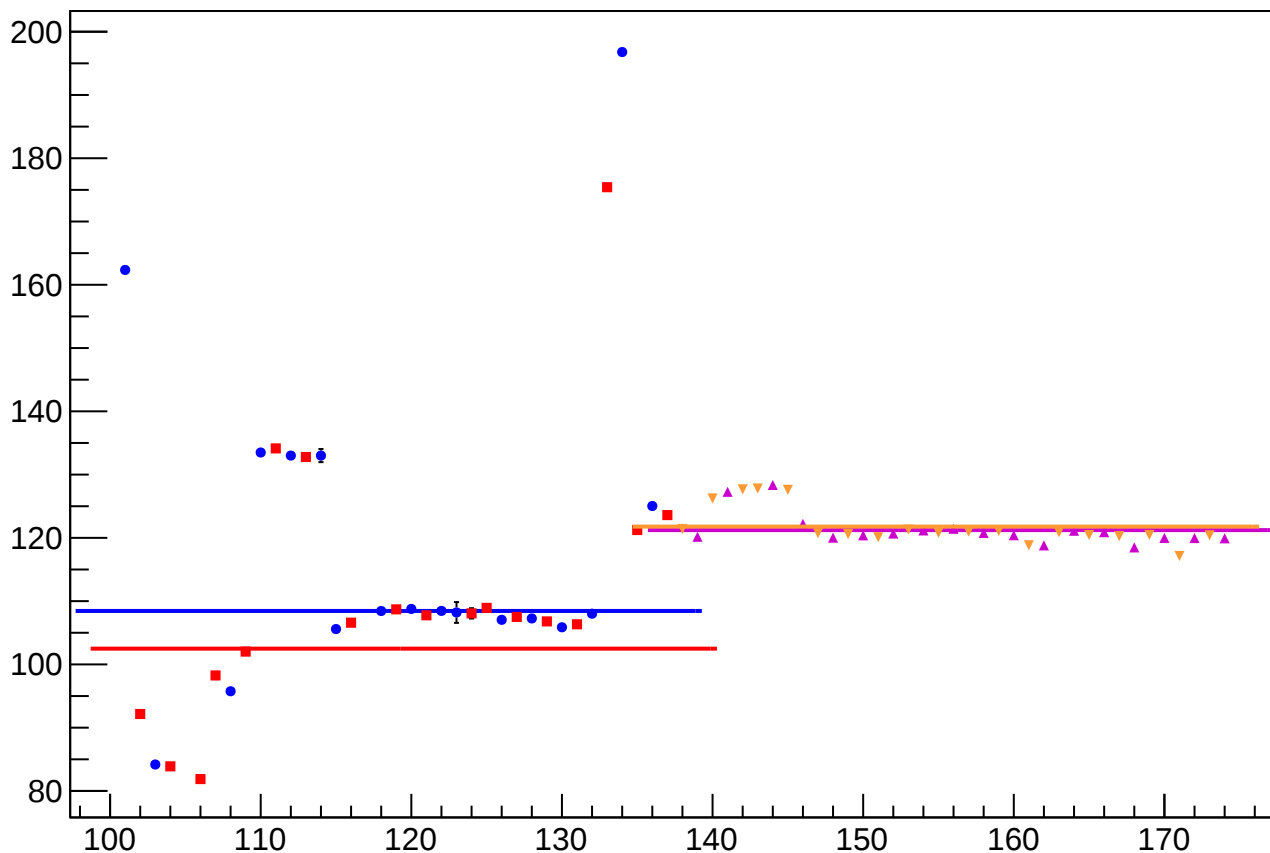
Right:  $-99.203 \pm 1.168$   $\chi^2/\text{NDF}$ : 1574.8/34

In:  $-81.562 \pm 0.841$   $\chi^2/\text{NDF}$ : 1408.4/34

Out:  $-79.042 \pm 0.812$   $\chi^2/\text{NDF}$ : 1419.2/36

All:  $-80.258 \pm 0.584$   $\chi^2/\text{NDF}$ : 2832.2/71

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $108.448 \pm 0.085$   $\chi^2/\text{NDF}$ : 73265.3/16

Left Out:  $121.782 \pm 0.045$   $\chi^2/\text{NDF}$ : 4237.3/18

Right Out:  $102.490 \pm 0.080$   $\chi^2/\text{NDF}$ : 52909.2/17

Left In:  $121.227 \pm 0.045$   $\chi^2/\text{NDF}$ : 2880.9/17

Left:  $121.504 \pm 0.032$   $\chi^2/\text{NDF}$ : 7193.2/36

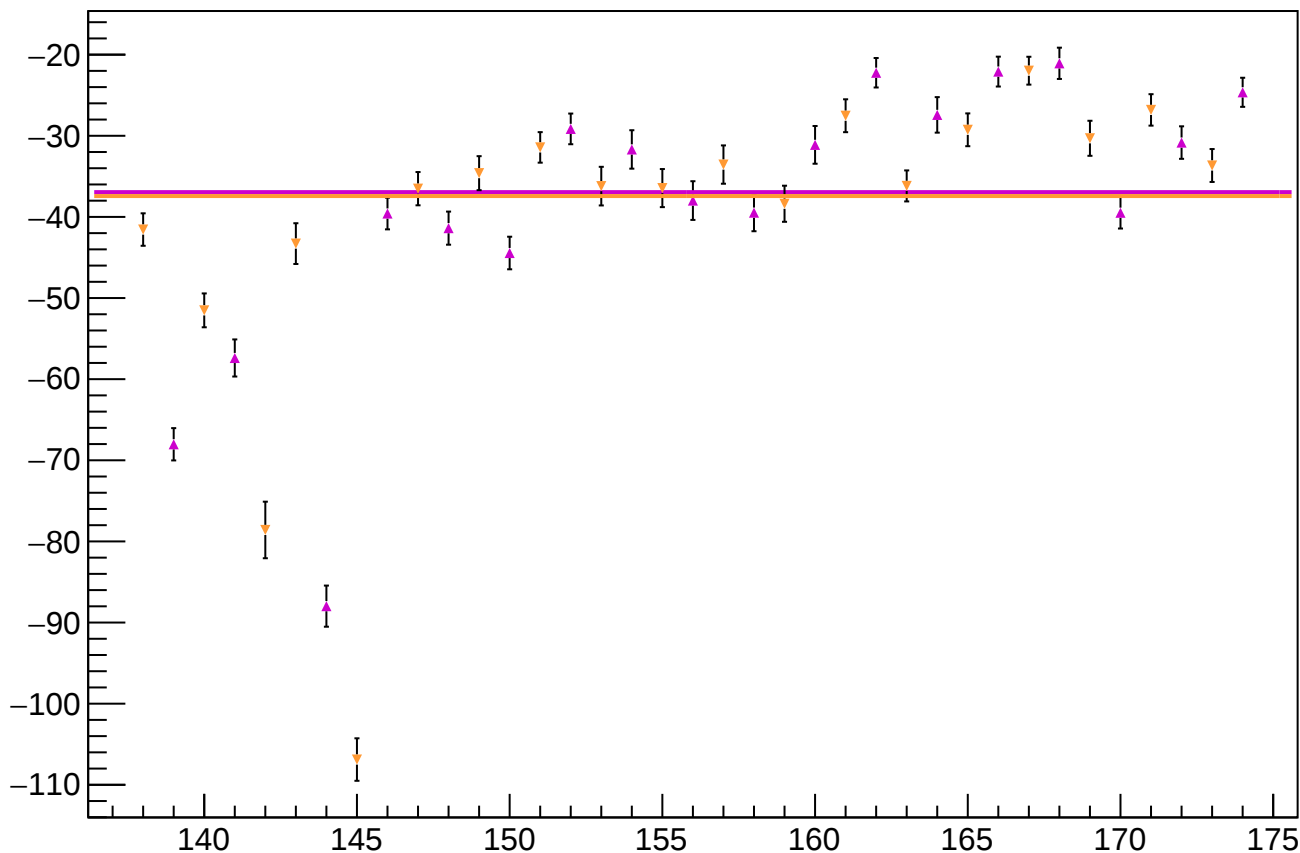
Right:  $105.281 \pm 0.058$   $\chi^2/\text{NDF}$ : 128799.0/34

In:  $118.398 \pm 0.040$   $\chi^2/\text{NDF}$ : 93830.6/34

Out:  $117.060 \pm 0.039$   $\chi^2/\text{NDF}$ : 101505.4/36

All:  $117.720 \pm 0.028$   $\chi^2/\text{NDF}$ : 195905.8/71

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: -37.429+/-0.489  $\chi^2/\text{NDF}$ :1079.4/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -36.945+/-0.485  $\chi^2/\text{NDF}$ :1054.6/17

Left: -37.185+/-0.344  $\chi^2/\text{NDF}$ : 2134.5/36

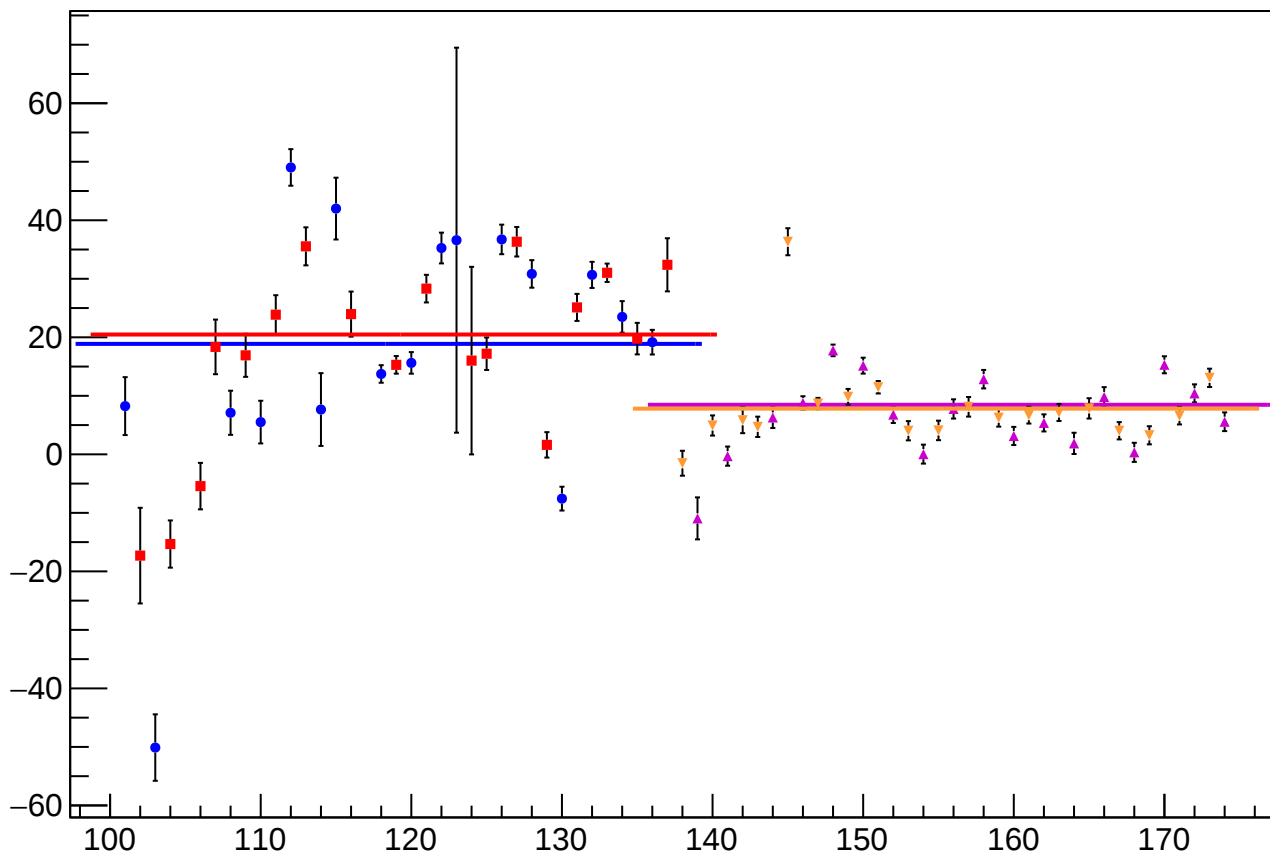
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -36.945+/-0.485  $\chi^2/\text{NDF}$ :1054.6/17

Out: -37.429+/-0.489  $\chi^2/\text{NDF}$ :1079.4/18

All: -37.185+/-0.344  $\chi^2/\text{NDF}$ : 2134.5/36

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.876 \pm 0.644$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $7.807 \pm 0.347$   $\chi^2/\text{NDF}$ : 232.5/18

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

Left In:  $8.466 \pm 0.355$   $\chi^2/\text{NDF}$ : 289.4/17

Left:  $8.129 \pm 0.248$   $\chi^2/\text{NDF}$ : 523.7/36

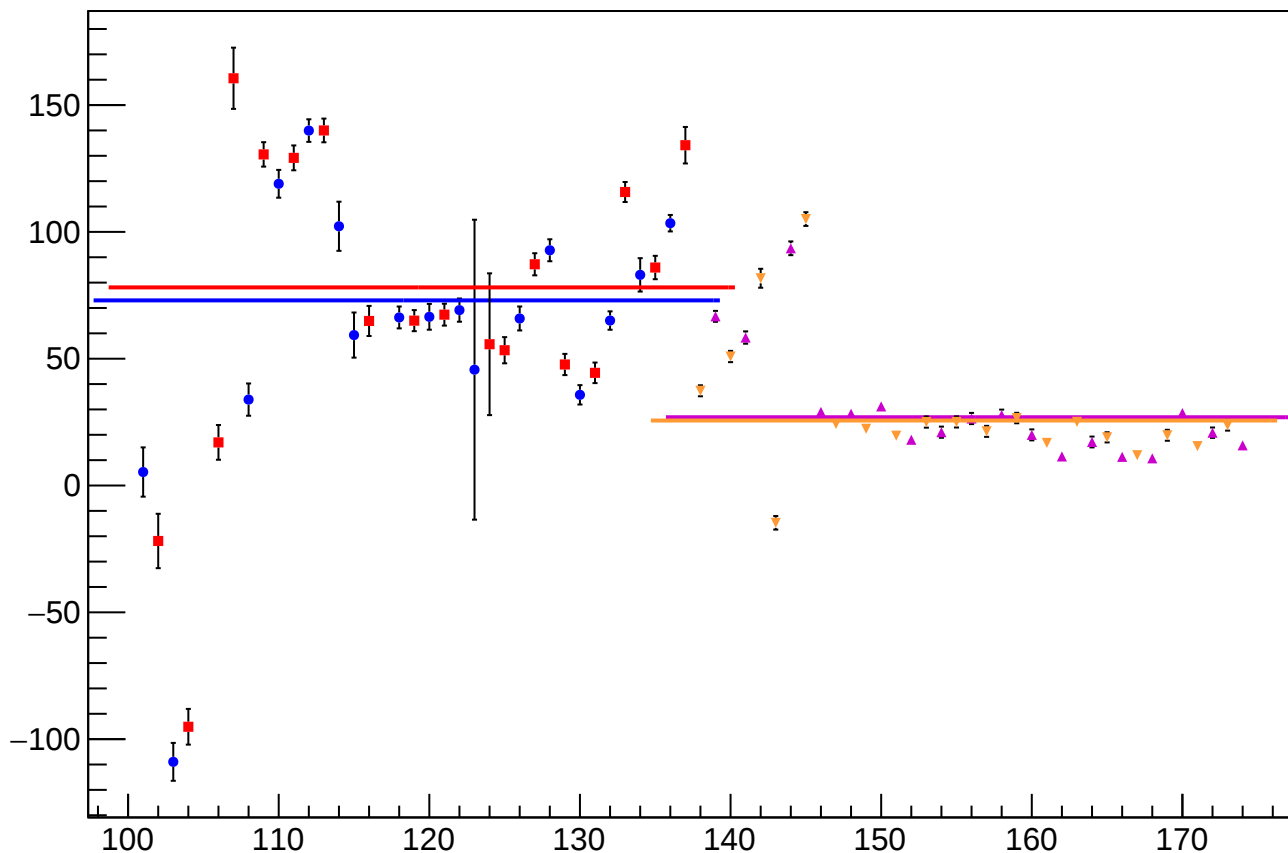
Right:  $19.676 \pm 0.455$   $\chi^2/\text{NDF}$ : 986.0/34

In:  $10.893 \pm 0.311$   $\chi^2/\text{NDF}$ : 1110.0/34

Out:  $10.660 \pm 0.305$   $\chi^2/\text{NDF}$ : 895.0/36

All:  $10.775 \pm 0.218$   $\chi^2/\text{NDF}$ : 2005.4/71

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: 25.629 $\pm$ 0.482  $\chi^2$ /NDF:1619.5/18

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

Left In: 26.917 $\pm$ 0.478  $\chi^2$ /NDF:1439.8/17

Left: 26.279 $\pm$ 0.340  $\chi^2$ /NDF: 3062.9/36

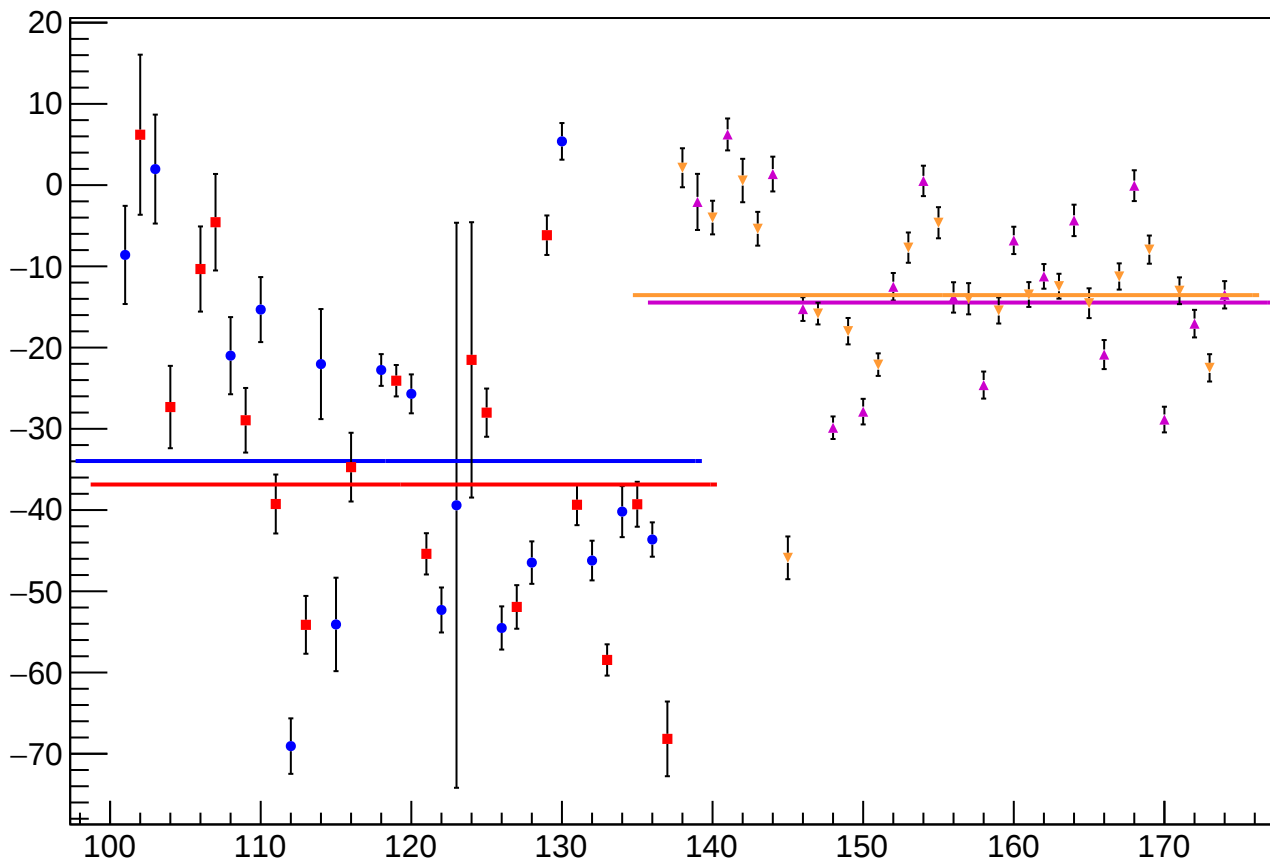
Right: 75.568 $\pm$ 0.868  $\chi^2$ /NDF: 2761.0/34

In: 32.963 $\pm$ 0.446  $\chi^2$ /NDF:3864.3/34

Out: 32.689 $\pm$ 0.449  $\chi^2$ /NDF:4758.3/36

All: 32.827 $\pm$ 0.316  $\chi^2$ /NDF: 8622.8/71

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -33.964 $\pm$ 0.738  $\chi^2$ /NDF: 721.9/16

Left Out: -13.542 $\pm$ 0.402  $\chi^2$ /NDF:381.3/18

Right Out: -36.856 $\pm$ 0.737  $\chi^2$ /NDF: 535.3/17

Left In: -14.457 $\pm$ 0.409  $\chi^2$ /NDF:685.7/17

Left: -13.992 $\pm$ 0.287  $\chi^2$ /NDF: 1069.5/36

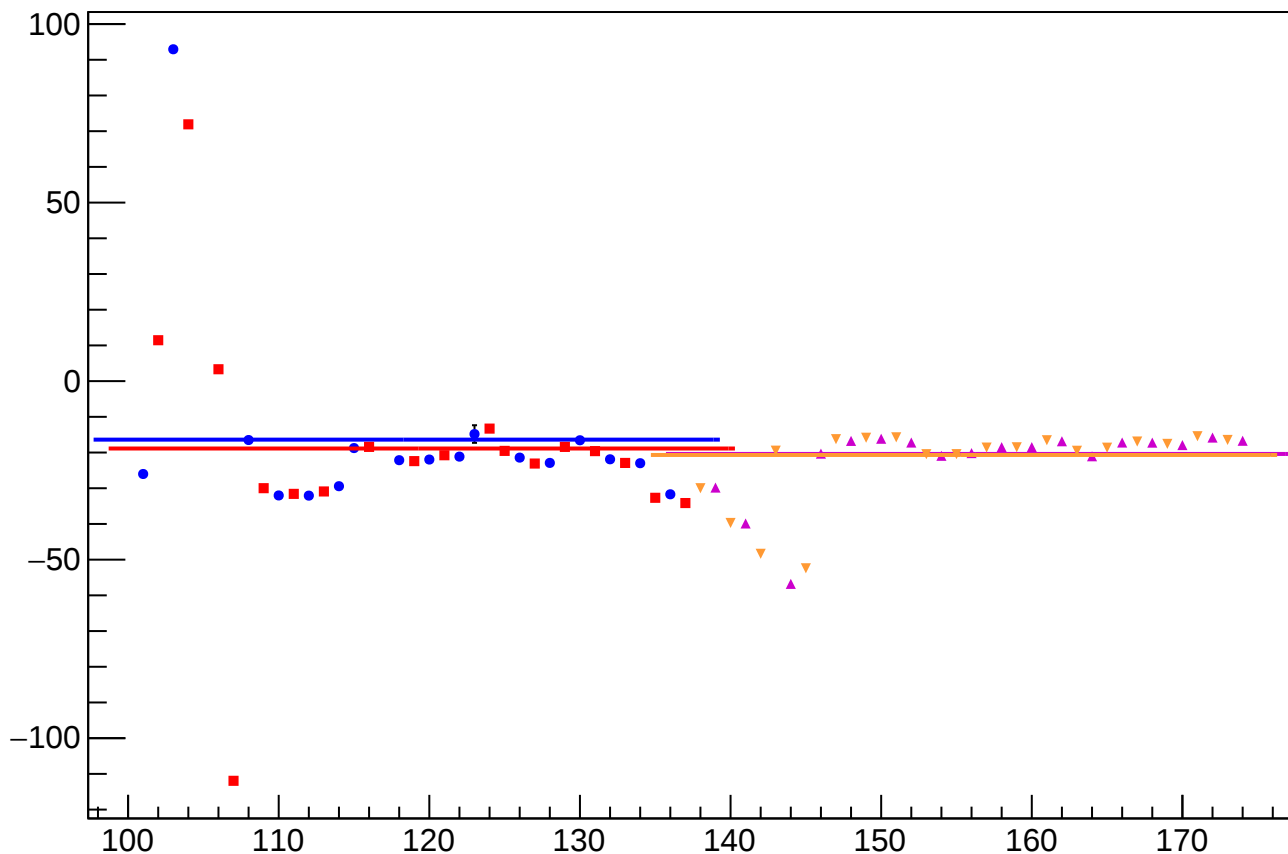
Right: -35.411 $\pm$ 0.521  $\chi^2$ /NDF: 1264.9/34

In: -19.045 $\pm$ 0.358  $\chi^2$ /NDF:1942.6/34

Out: -18.891 $\pm$ 0.353  $\chi^2$ /NDF:1687.8/36

All: -18.967 $\pm$ 0.251  $\chi^2$ /NDF: 3630.5/71

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:  $-20.679 \pm 0.019$   $\chi^2/\text{NDF}: 201494.8/18$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

Left In:  $-20.396 \pm 0.019$   $\chi^2/\text{NDF}: 170452.1/17$

Left:  $-20.536 \pm 0.013$   $\chi^2/\text{NDF}: 372061.9/36$

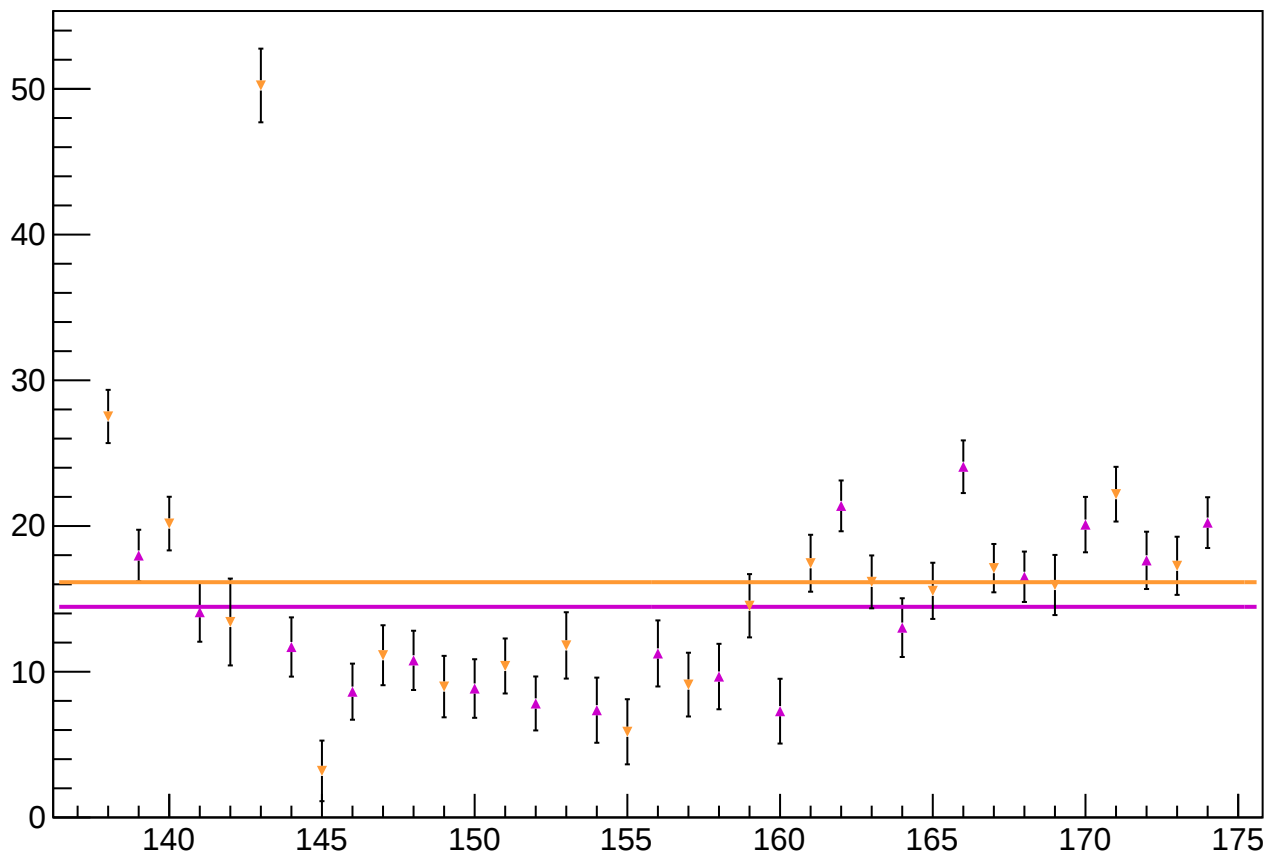
Right:  $-17.607 \pm 0.032$   $\chi^2/\text{NDF}: 909205.2/34$

In:  $-19.804 \pm 0.017$   $\chi^2/\text{NDF}: 651680.2/34$

Out:  $-20.415 \pm 0.017$   $\chi^2/\text{NDF}: 636224.5/36$

All:  $-20.106 \pm 0.012$   $\chi^2/\text{NDF}: 1288537.5/71$

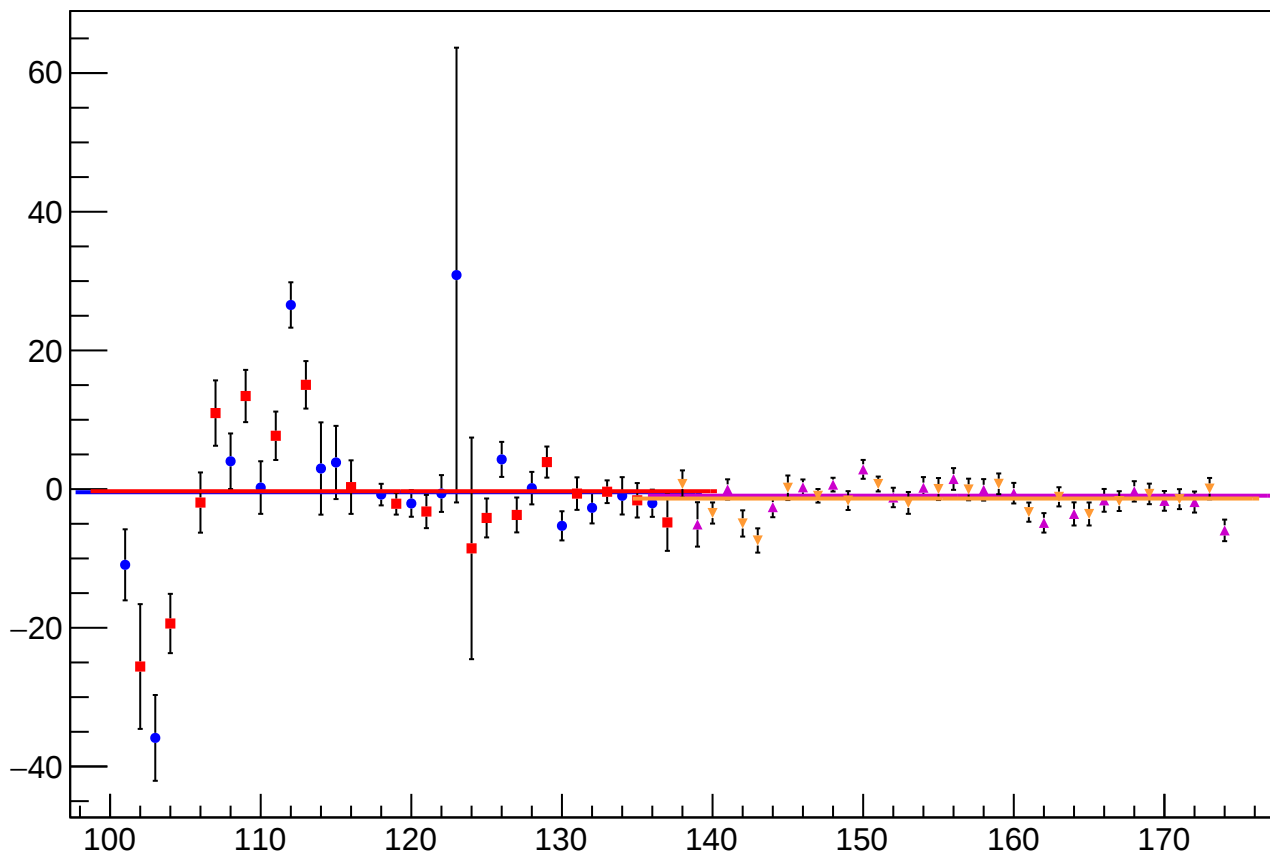
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 16.145 $\pm$ 0.465  $\chi^2/\text{NDF}$ :339.0/18  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 14.455 $\pm$ 0.460  $\chi^2/\text{NDF}$ :134.3/17

Left: 15.290 $\pm$ 0.327  $\chi^2/\text{NDF}$ : 479.9/36  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 14.455 $\pm$ 0.460  $\chi^2/\text{NDF}$ :134.3/17  
 Out: 16.145 $\pm$ 0.465  $\chi^2/\text{NDF}$ :339.0/18  
 All: 15.290 $\pm$ 0.327  $\chi^2/\text{NDF}$ : 479.9/36

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:  $-1.360 \pm 0.333$   $\chi^2/\text{NDF}$ : 32.0/18

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

Left In:  $-0.949 \pm 0.340$   $\chi^2/\text{NDF}$ : 39.8/17

Left:  $-1.159 \pm 0.238$   $\chi^2/\text{NDF}$ : 72.5/36

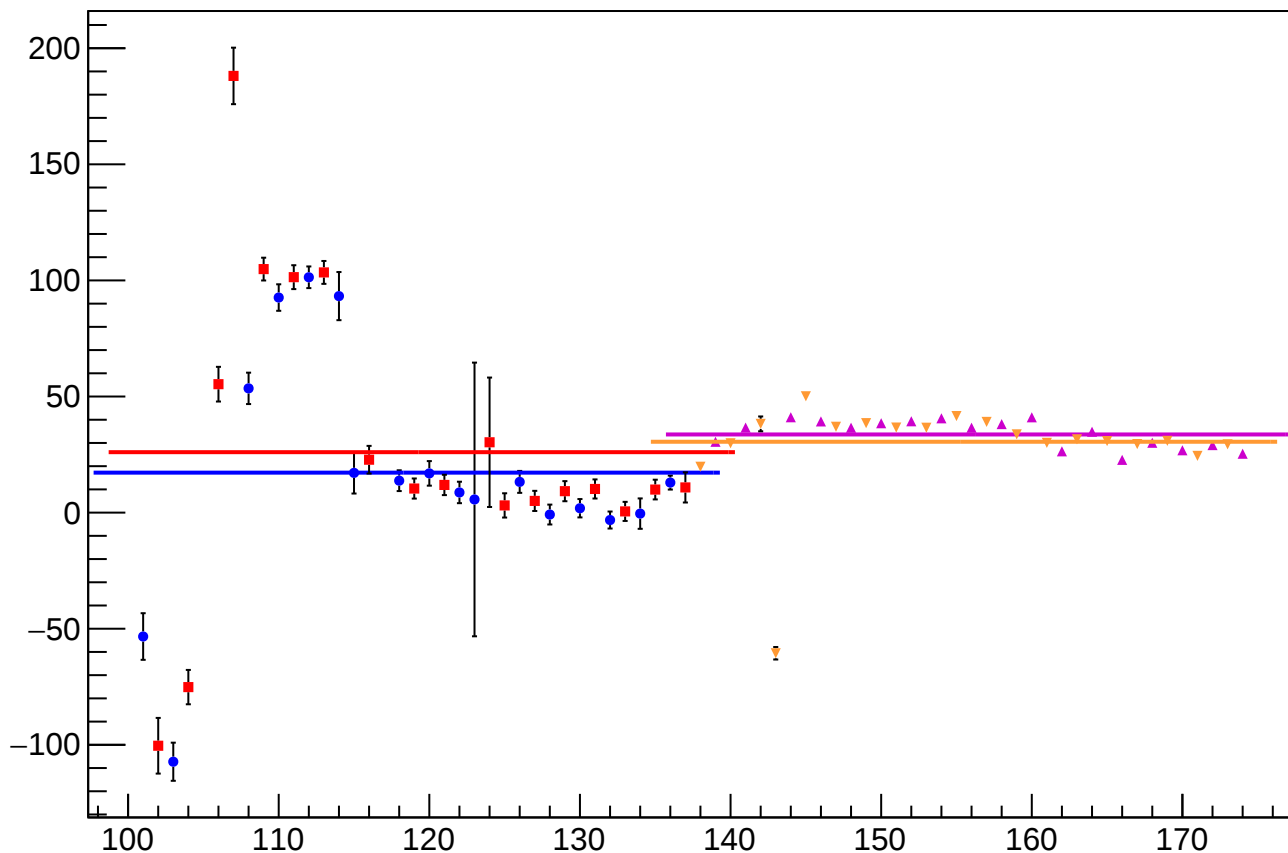
Right:  $-0.379 \pm 0.464$   $\chi^2/\text{NDF}$ : 203.7/34

In:  $-0.843 \pm 0.302$   $\chi^2/\text{NDF}$ : 159.8/34

Out:  $-1.144 \pm 0.297$   $\chi^2/\text{NDF}$ : 118.1/36

All:  $-0.996 \pm 0.212$   $\chi^2/\text{NDF}$ : 278.4/71

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 17.218 $\pm$ 1.241  $\chi^2$ /NDF: 940.1/16

Left Out: 30.519 $\pm$ 0.460  $\chi^2$ /NDF:1364.9/18

Right Out: 26.032 $\pm$ 1.244  $\chi^2$ /NDF: 1366.0/17

Left In: 33.660 $\pm$ 0.455  $\chi^2$ /NDF:171.1/17

Left: 32.108 $\pm$ 0.323  $\chi^2$ /NDF: 1559.6/36

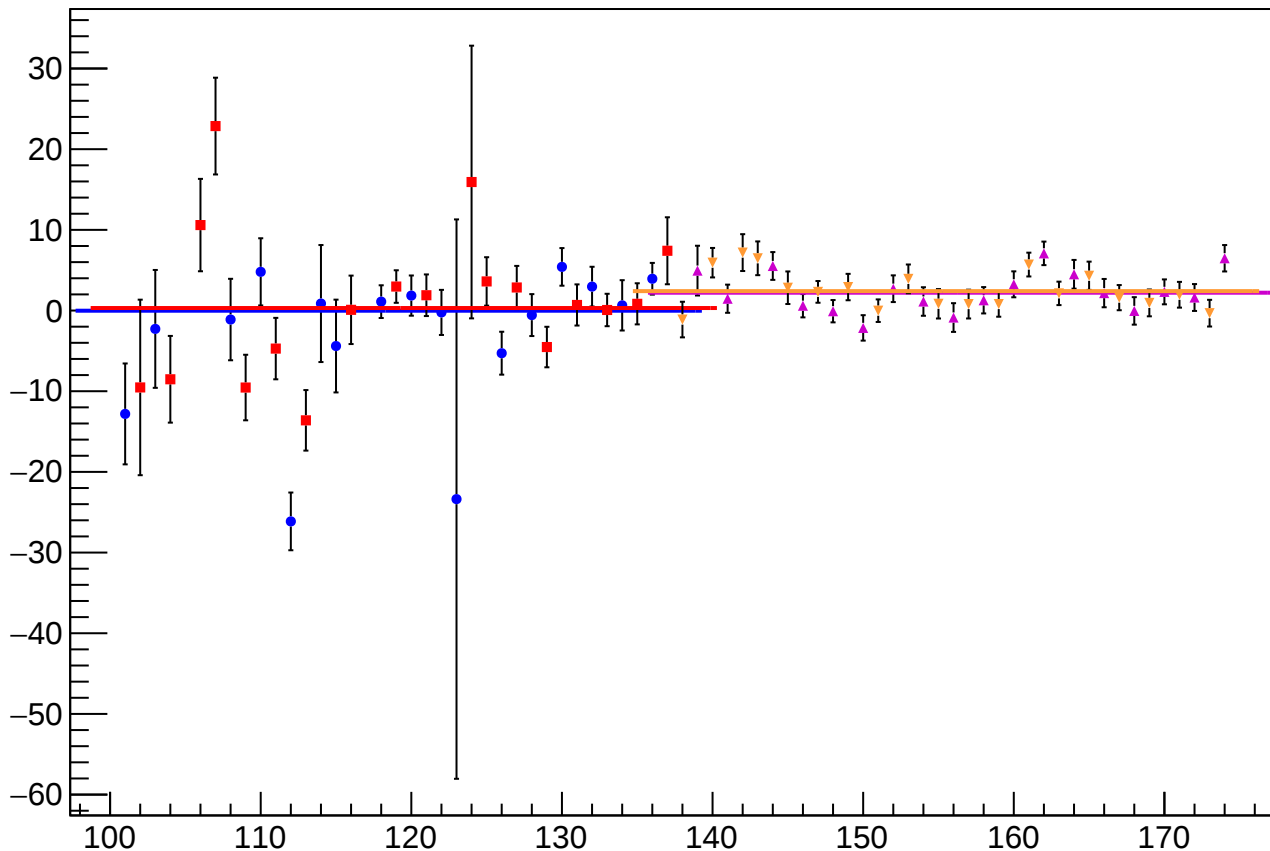
Right: 21.614 $\pm$ 0.879  $\chi^2$ /NDF: 2331.3/34

In: 31.713 $\pm$ 0.427  $\chi^2$ /NDF:1266.0/34

Out: 29.979 $\pm$ 0.432  $\chi^2$ /NDF:2742.3/36

All: 30.855 $\pm$ 0.304  $\chi^2$ /NDF: 4016.5/71

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:  $2.406 \pm 0.385$   $\chi^2/\text{NDF}$ : 30.9/18

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

Left In:  $2.210 \pm 0.391$   $\chi^2/\text{NDF}$ : 42.1/17

Left:  $2.309 \pm 0.274$   $\chi^2/\text{NDF}$ : 73.1/36

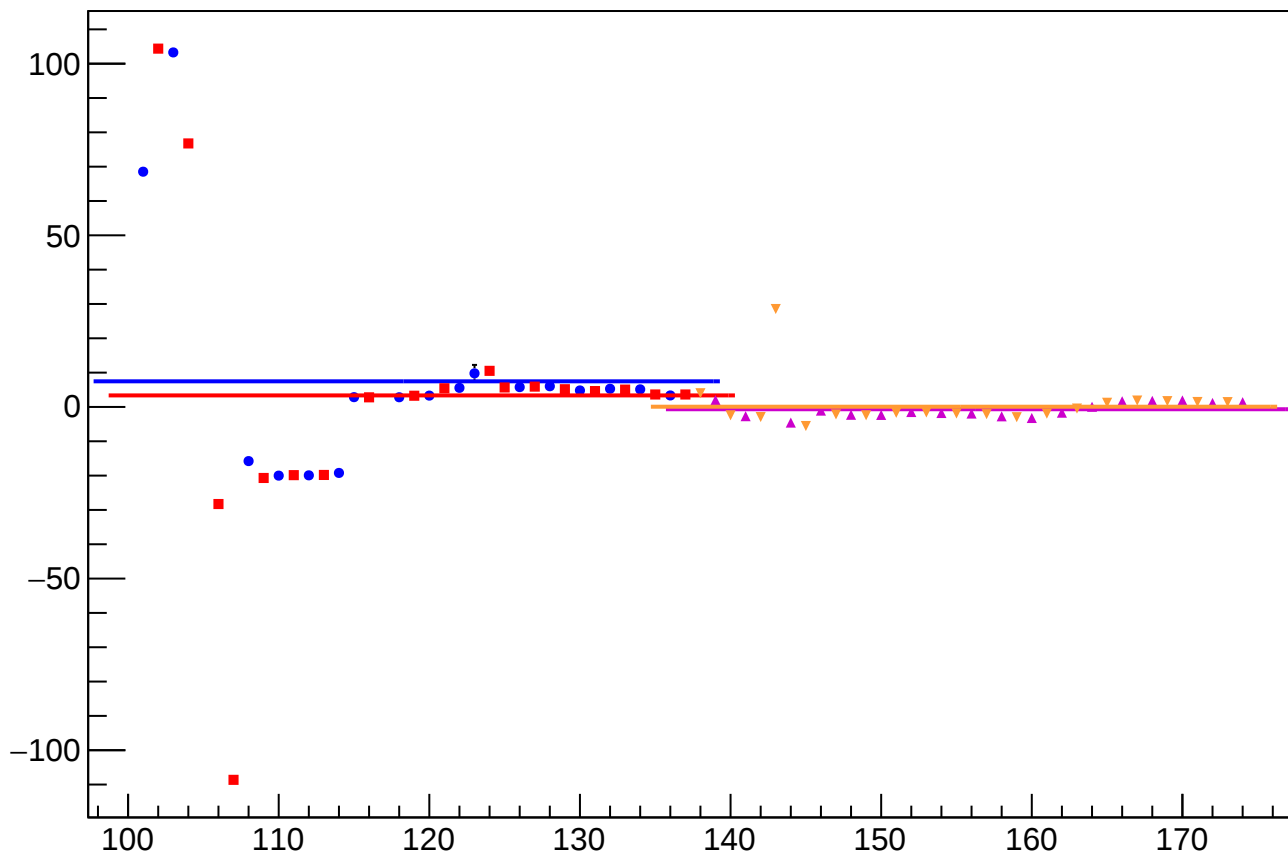
Right:  $0.144 \pm 0.528$   $\chi^2/\text{NDF}$ : 130.0/34

In:  $1.728 \pm 0.346$   $\chi^2/\text{NDF}$ : 124.9/34

Out:  $1.968 \pm 0.343$   $\chi^2/\text{NDF}$ : 91.2/36

All:  $1.849 \pm 0.244$   $\chi^2/\text{NDF}$ : 216.4/71

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 7.467+/-0.044  $\chi^2/\text{NDF}$ : 355890.1/16

Left Out: 0.071+/-0.018  $\chi^2/\text{NDF}$ : 86476.8/18

Right Out: 3.362+/-0.046  $\chi^2/\text{NDF}$ : 504811.4/17

Left In: -0.667+/-0.018  $\chi^2/\text{NDF}$ : 12630.4/17

Left: -0.303+/-0.013  $\chi^2/\text{NDF}$ : 99973.9/36

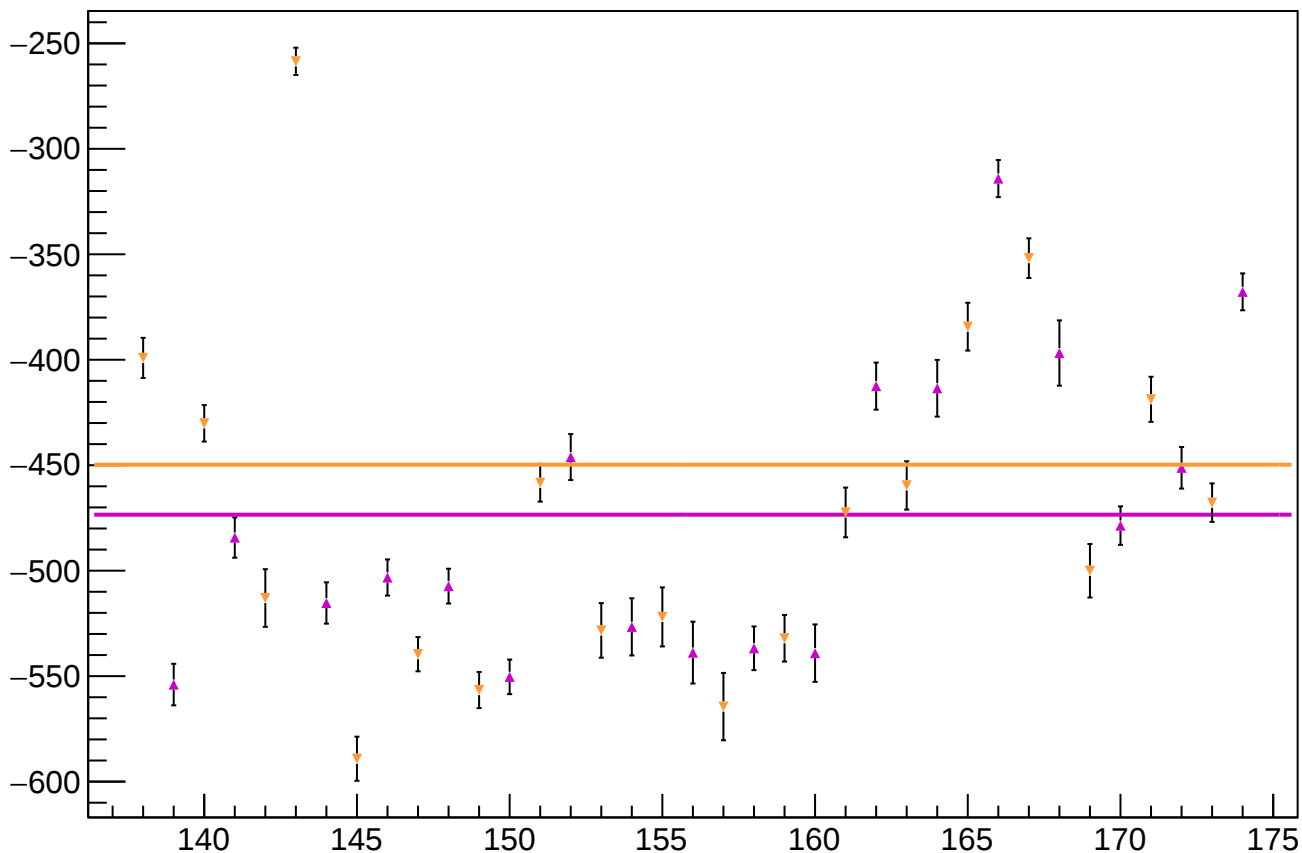
Right: 5.466+/-0.032  $\chi^2/\text{NDF}$ : 864856.4/34

In: 0.435+/-0.016  $\chi^2/\text{NDF}$ : 397442.9/34

Out: 0.507+/-0.017  $\chi^2/\text{NDF}$ : 595807.8/36

All: 0.470+/-0.012  $\chi^2/\text{NDF}$ : 993260.1/71

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: -449.757+/-2.305  $\chi^2/\text{NDF}$ :1728.2/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -473.449+/-2.396  $\chi^2/\text{NDF}$ :858.6/17

Left: -461.145+/-1.661  $\chi^2/\text{NDF}$ : 2637.6/36

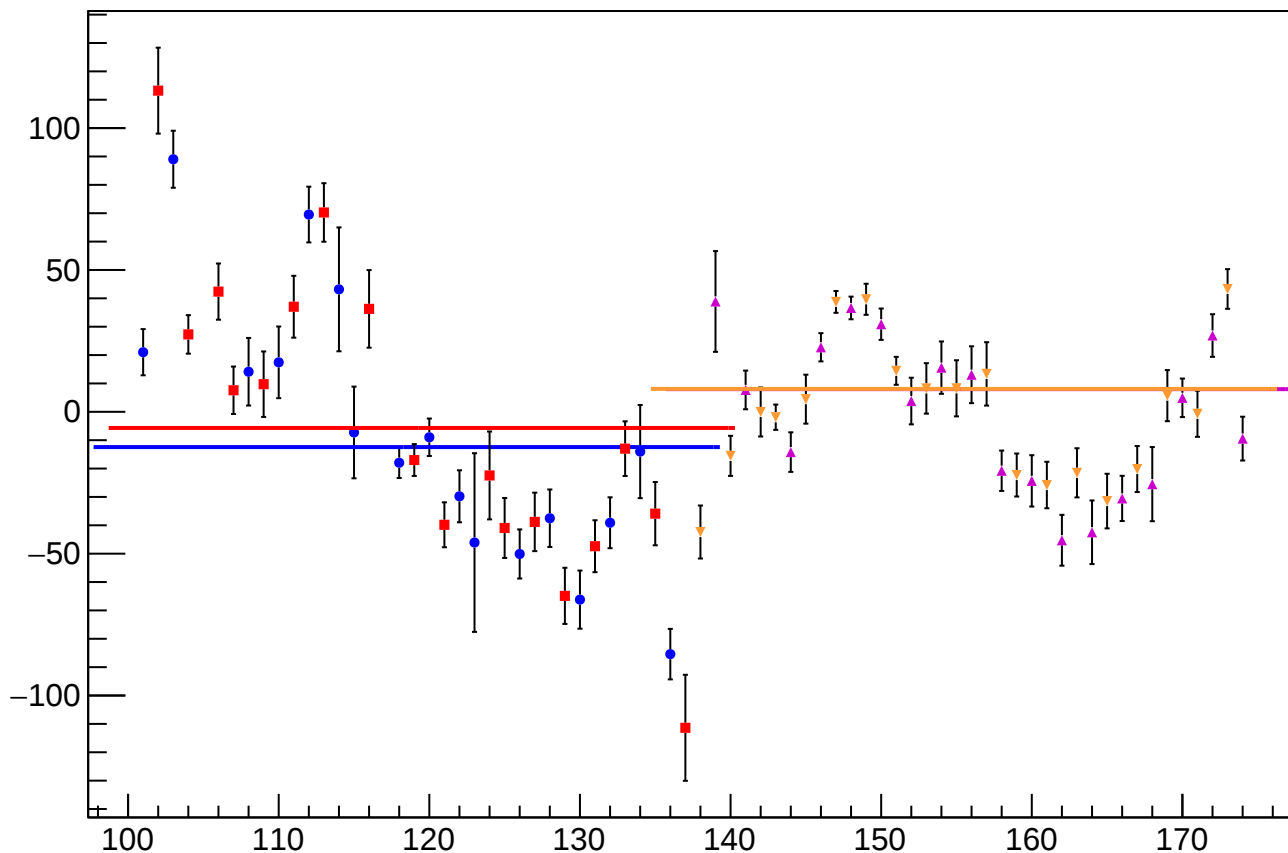
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -473.449+/-2.396  $\chi^2/\text{NDF}$ :858.6/17

Out: -449.757+/-2.305  $\chi^2/\text{NDF}$ :1728.2/18

All: -461.145+/-1.661  $\chi^2/\text{NDF}$ : 2637.6/36

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:  $8.077 \pm 1.579$   $\chi^2/\text{NDF}$ : 245.5/18

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

Left In:  $7.992 \pm 1.695$   $\chi^2/\text{NDF}$ : 218.0/17

Left:  $8.038 \pm 1.155$   $\chi^2/\text{NDF}$ : 463.6/36

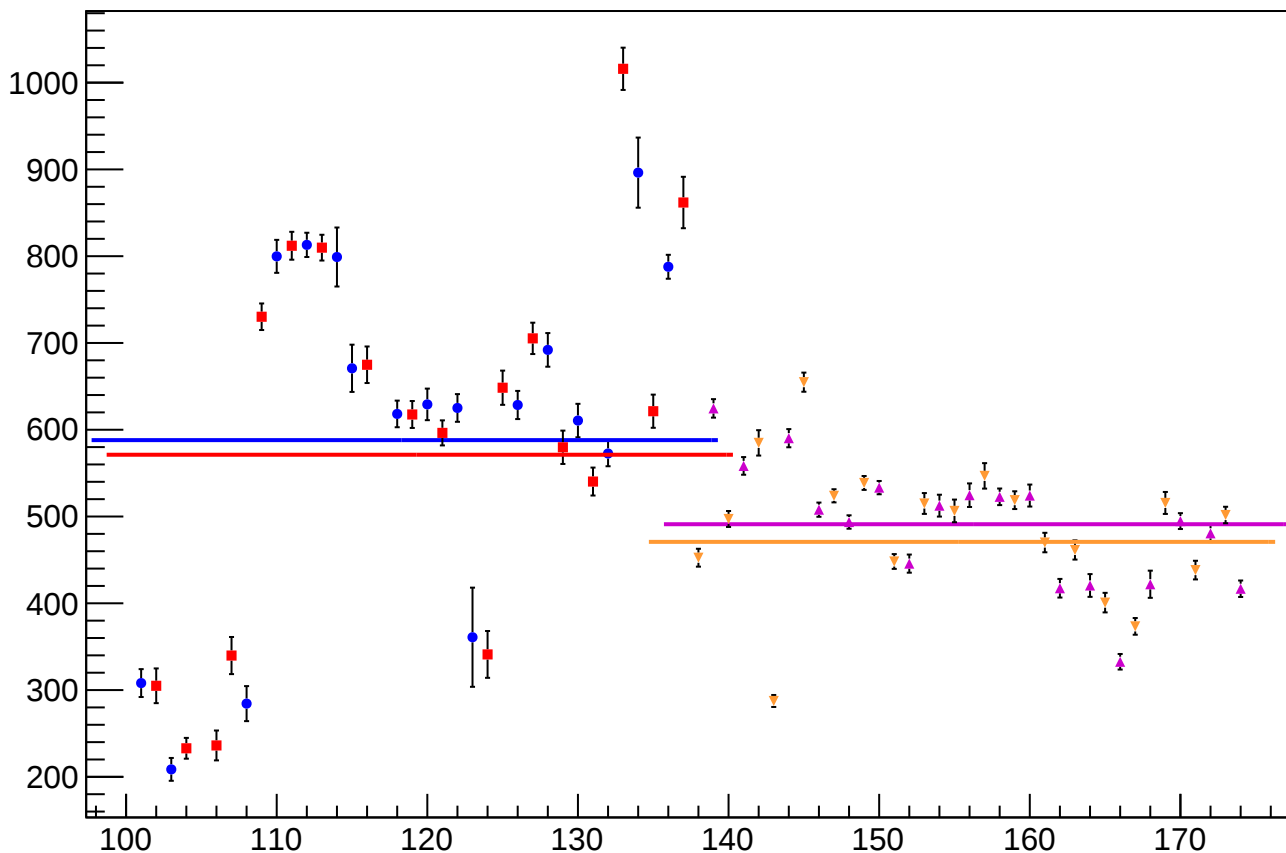
Right:  $-8.982 \pm 1.618$   $\chi^2/\text{NDF}$ : 678.2/34

In:  $0.864 \pm 1.368$   $\chi^2/\text{NDF}$ : 608.9/34

Out:  $3.571 \pm 1.295$   $\chi^2/\text{NDF}$ : 604.1/36

All:  $2.291 \pm 0.940$   $\chi^2/\text{NDF}$ : 1215.1/71

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: 470.788 $\pm$ 2.297  $\chi^2$ /NDF:1427.4/18

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

Left In: 491.122 $\pm$ 2.368  $\chi^2$ /NDF:840.6/17

Left: 480.644 $\pm$ 1.649  $\chi^2$ /NDF: 2306.1/36

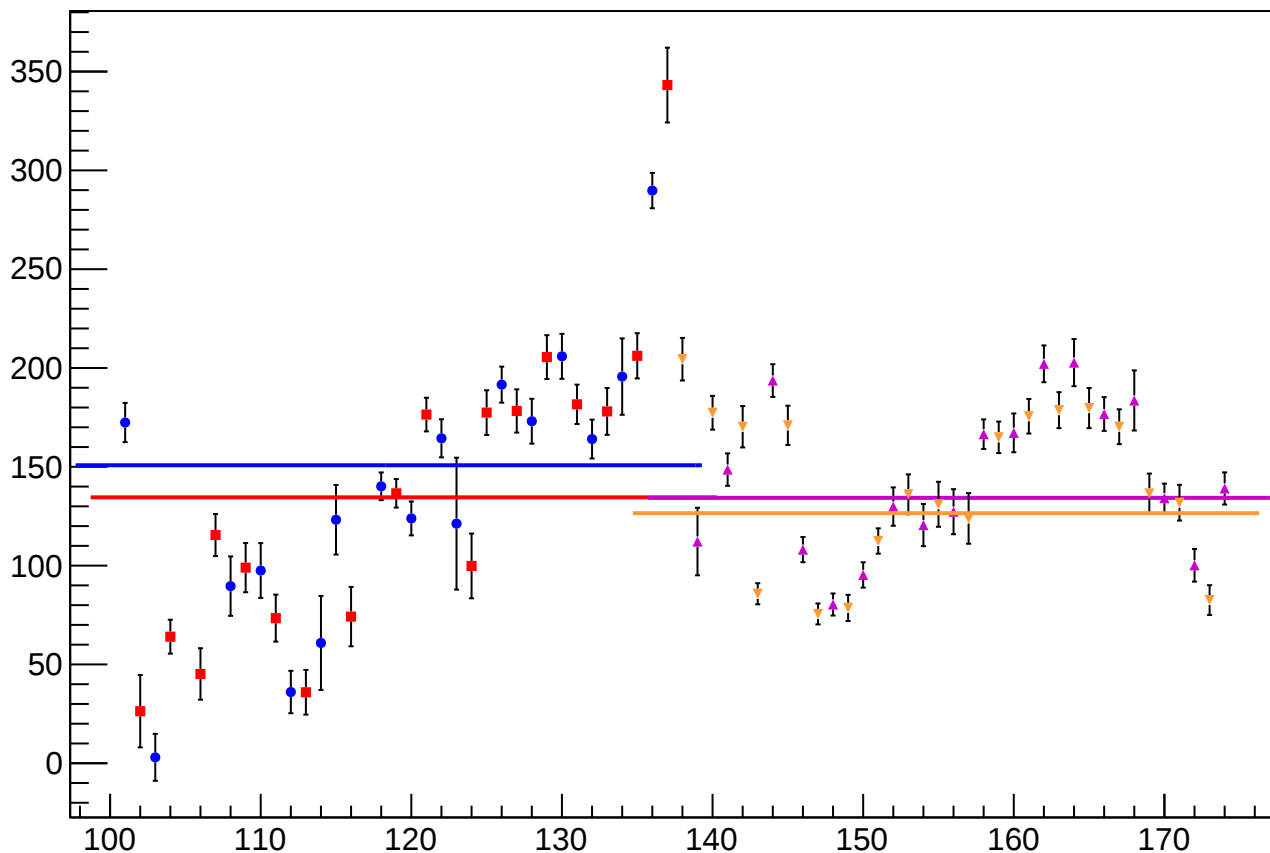
Right: 579.261 $\pm$ 2.996  $\chi^2$ /NDF: 4816.0/34

In: 513.446 $\pm$ 2.078  $\chi^2$ /NDF:3354.1/34

Out: 494.328 $\pm$ 2.010  $\chi^2$ /NDF:4555.8/36

All: 503.570 $\pm$ 1.445  $\chi^2$ /NDF: 7953.7/71

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: 126.534 $\pm$ 1.870  $\chi^2$ /NDF: 509.1/18

Right Out: 134.549 $\pm$ 2.619  $\chi^2$ /NDF: 576.2/17

Left In: 134.280 $\pm$ 1.985  $\chi^2$ /NDF: 374.0/17

Left: 130.176 $\pm$ 1.361  $\chi^2$ /NDF: 891.1/36

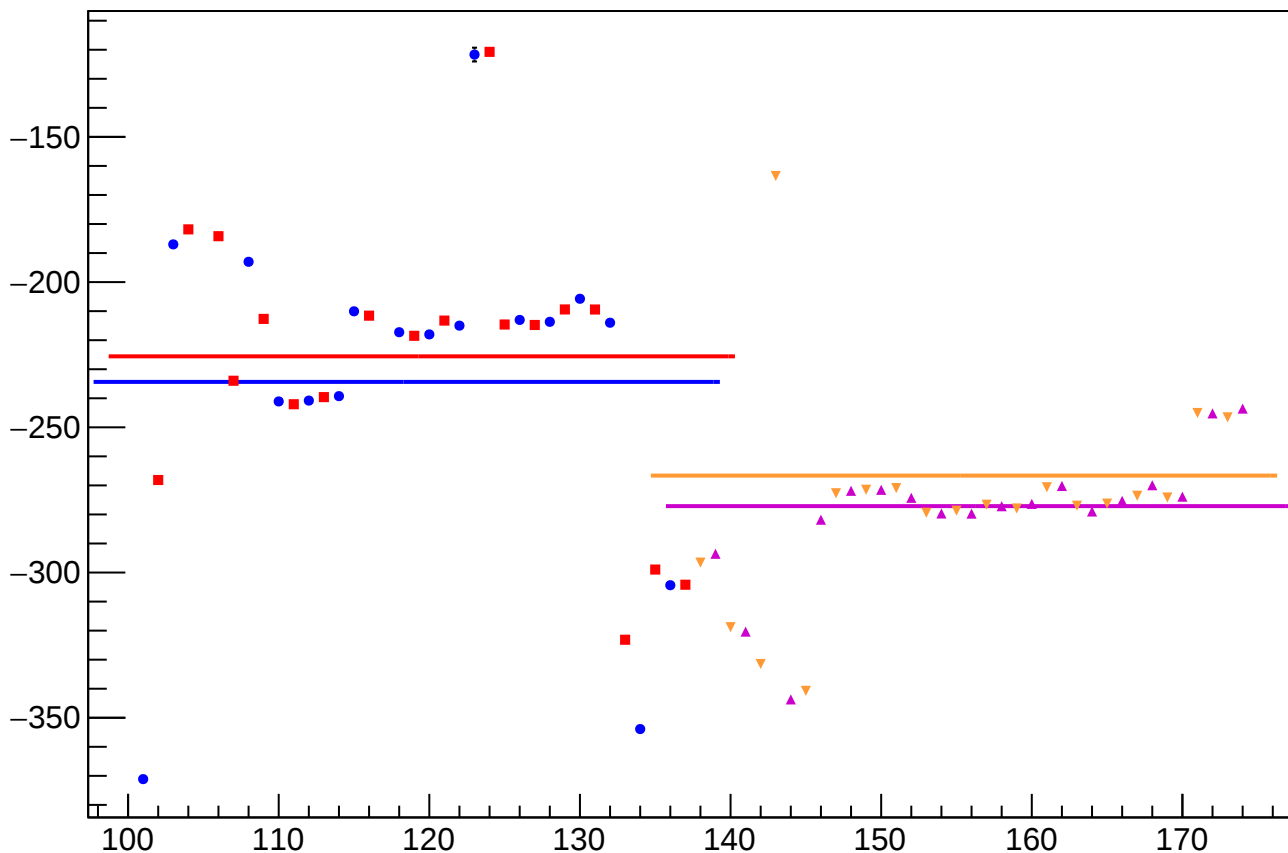
Right: 142.483 $\pm$ 1.873  $\chi^2$ /NDF: 1228.1/34

In: 140.127 $\pm$ 1.595  $\chi^2$ /NDF: 1031.6/34

Out: 129.239 $\pm$ 1.522  $\chi^2$ /NDF: 1091.5/36

All: 134.428 $\pm$ 1.101  $\chi^2$ /NDF: 2147.5/71

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-234.360 \pm 0.148$   $\chi^2/\text{NDF}: 145159.1/16$

Left Out:  $-266.613 \pm 0.091$   $\chi^2/\text{NDF}: 212746.5/18$

Right Out:  $-225.561 \pm 0.142$   $\chi^2/\text{NDF}: 92955.0/17$

Left In:  $-277.132 \pm 0.093$   $\chi^2/\text{NDF}: 52766.6/17$

Left:  $-271.760 \pm 0.065$   $\chi^2/\text{NDF}: 272023.0/36$

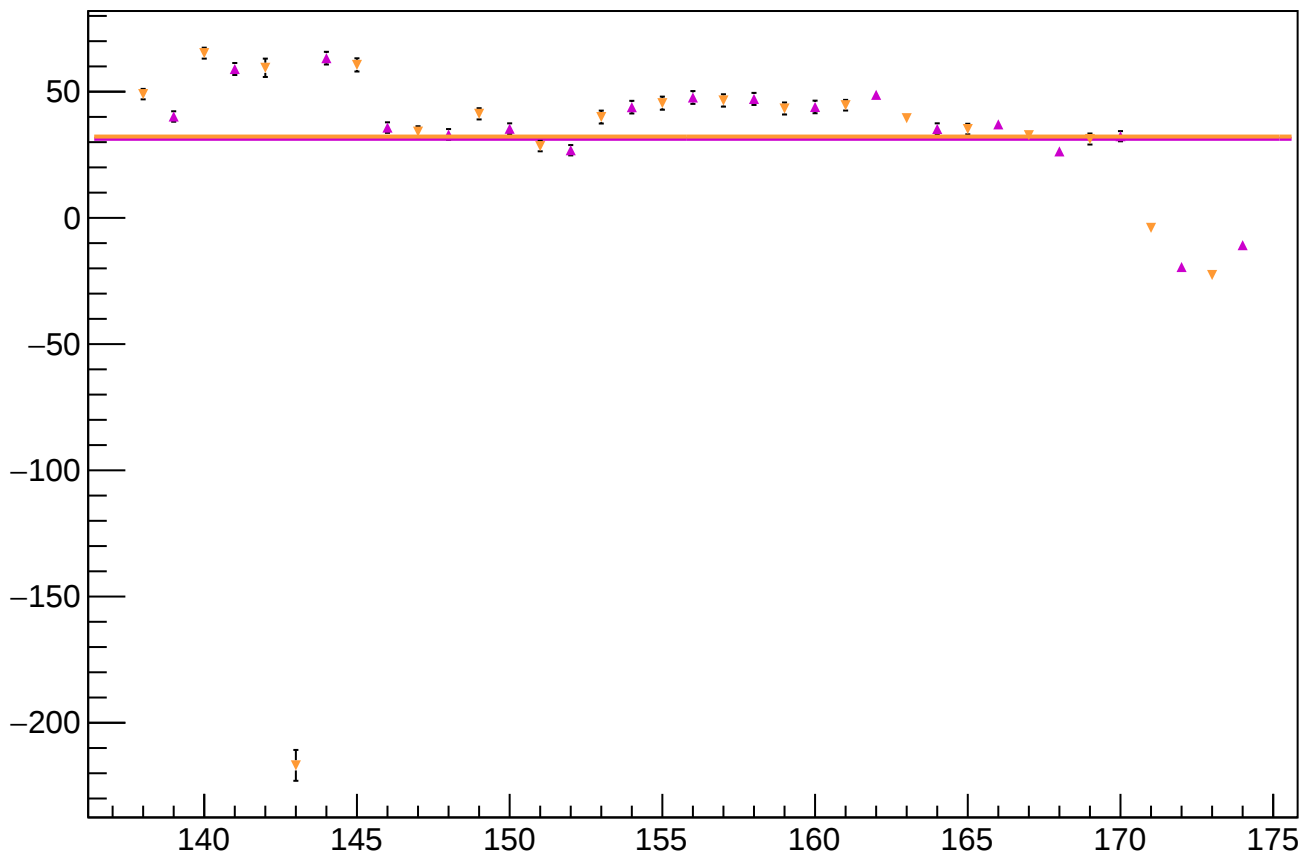
Right:  $-229.762 \pm 0.103$   $\chi^2/\text{NDF}: 239949.0/34$

In:  $-265.049 \pm 0.079$   $\chi^2/\text{NDF}: 257466.3/34$

Out:  $-254.618 \pm 0.077$   $\chi^2/\text{NDF}: 364919.3/36$

All:  $-259.686 \pm 0.055$   $\chi^2/\text{NDF}: 631368.2/71$

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: 32.218+/-0.515  $\chi^2/\text{NDF}$ :3456.9/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 31.327+/-0.499  $\chi^2/\text{NDF}$ :1883.9/17

Left: 31.758+/-0.358  $\chi^2/\text{NDF}$ : 5342.4/36

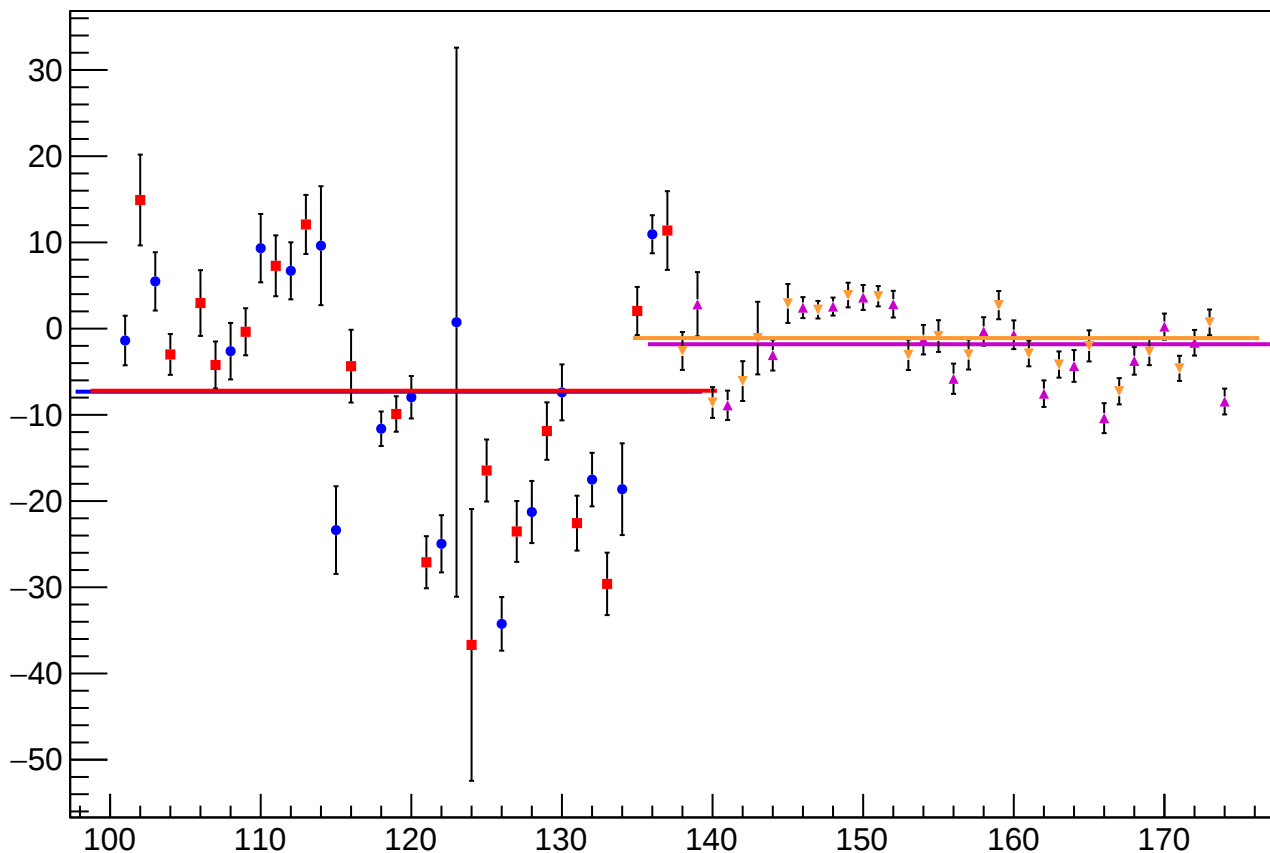
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 31.327+/-0.499  $\chi^2/\text{NDF}$ :1883.9/17

Out: 32.218+/-0.515  $\chi^2/\text{NDF}$ :3456.9/18

All: 31.758+/-0.358  $\chi^2/\text{NDF}$ : 5342.4/36

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:  $-1.095 \pm 0.368$   $\chi^2/\text{NDF}$ : 103.8/18

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

Left In:  $-1.810 \pm 0.368$   $\chi^2/\text{NDF}$ : 141.6/17

Left:  $-1.452 \pm 0.260$   $\chi^2/\text{NDF}$ : 247.3/36

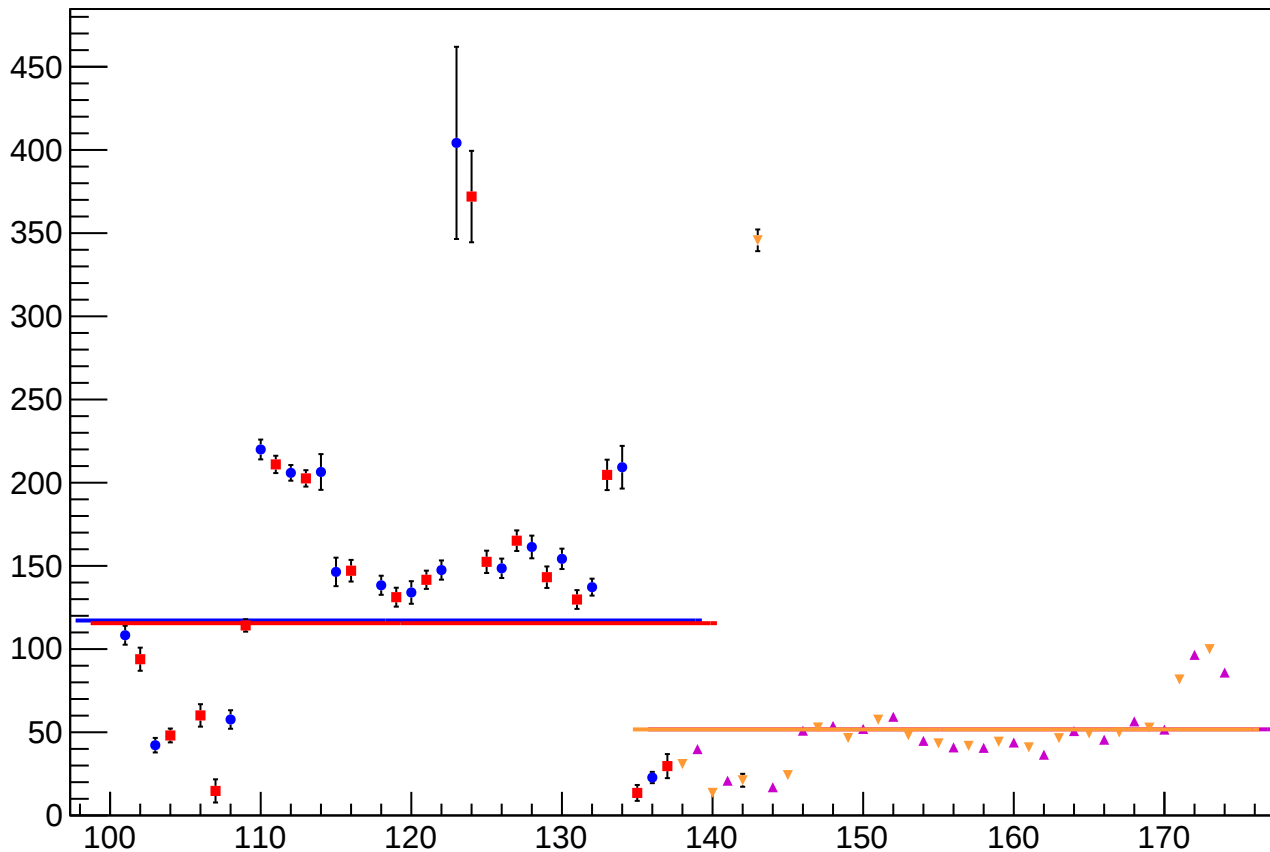
Right:  $-7.256 \pm 0.545$   $\chi^2/\text{NDF}$ : 531.2/34

In:  $-2.812 \pm 0.333$   $\chi^2/\text{NDF}$ : 461.4/34

Out:  $-2.248 \pm 0.331$   $\chi^2/\text{NDF}$ : 408.0/36

All:  $-2.528 \pm 0.235$   $\chi^2/\text{NDF}$ : 870.9/71

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 117.177 $\pm$ 1.411  $\chi^2$ /NDF: 2159.6/16

Left Out: 51.721 $\pm$ 0.508  $\chi^2$ /NDF:3470.9/18

Right Out: 115.556 $\pm$ 1.363  $\chi^2$ /NDF: 2149.2/17

Left In: 51.766 $\pm$ 0.494  $\chi^2$ /NDF:1376.3/17

Left: 51.744 $\pm$ 0.354  $\chi^2$ /NDF: 4847.3/36

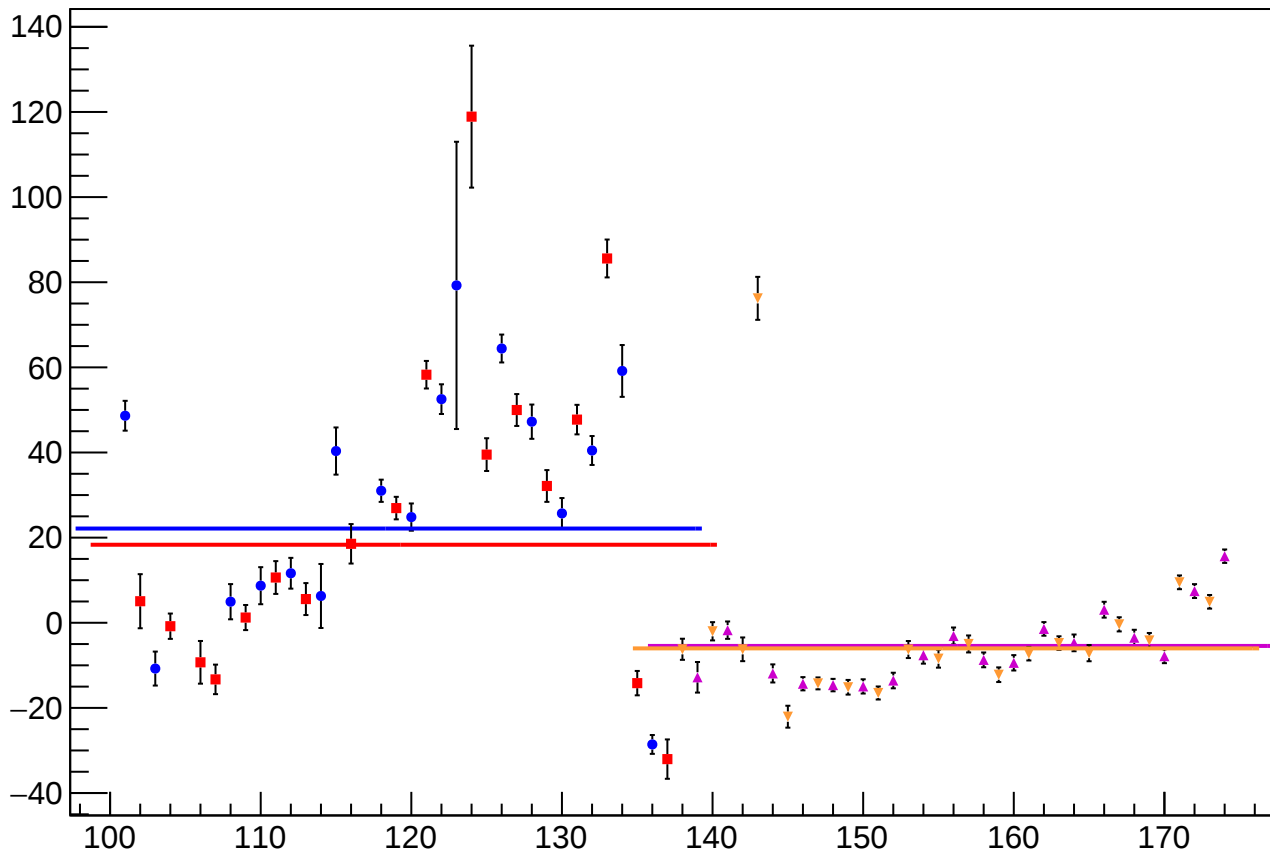
Right: 116.338 $\pm$ 0.981  $\chi^2$ /NDF: 4309.5/34

In: 58.899 $\pm$ 0.466  $\chi^2$ /NDF:5449.6/34

Out: 59.508 $\pm$ 0.476  $\chi^2$ /NDF:7545.5/36

All: 59.197 $\pm$ 0.333  $\chi^2$ /NDF: 12996.0/71

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 22.136+/-0.891  $\chi^2/\text{NDF}$ : 1064.1/16

Left Out: -6.020+/-0.425  $\chi^2/\text{NDF}$ : 584.2/18

Right Out: 18.331+/-0.872  $\chi^2/\text{NDF}$ : 1070.4/17

Left In: -5.443+/-0.423  $\chi^2/\text{NDF}$ : 422.8/17

Left: -5.730+/-0.300  $\chi^2/\text{NDF}$ : 1007.9/36

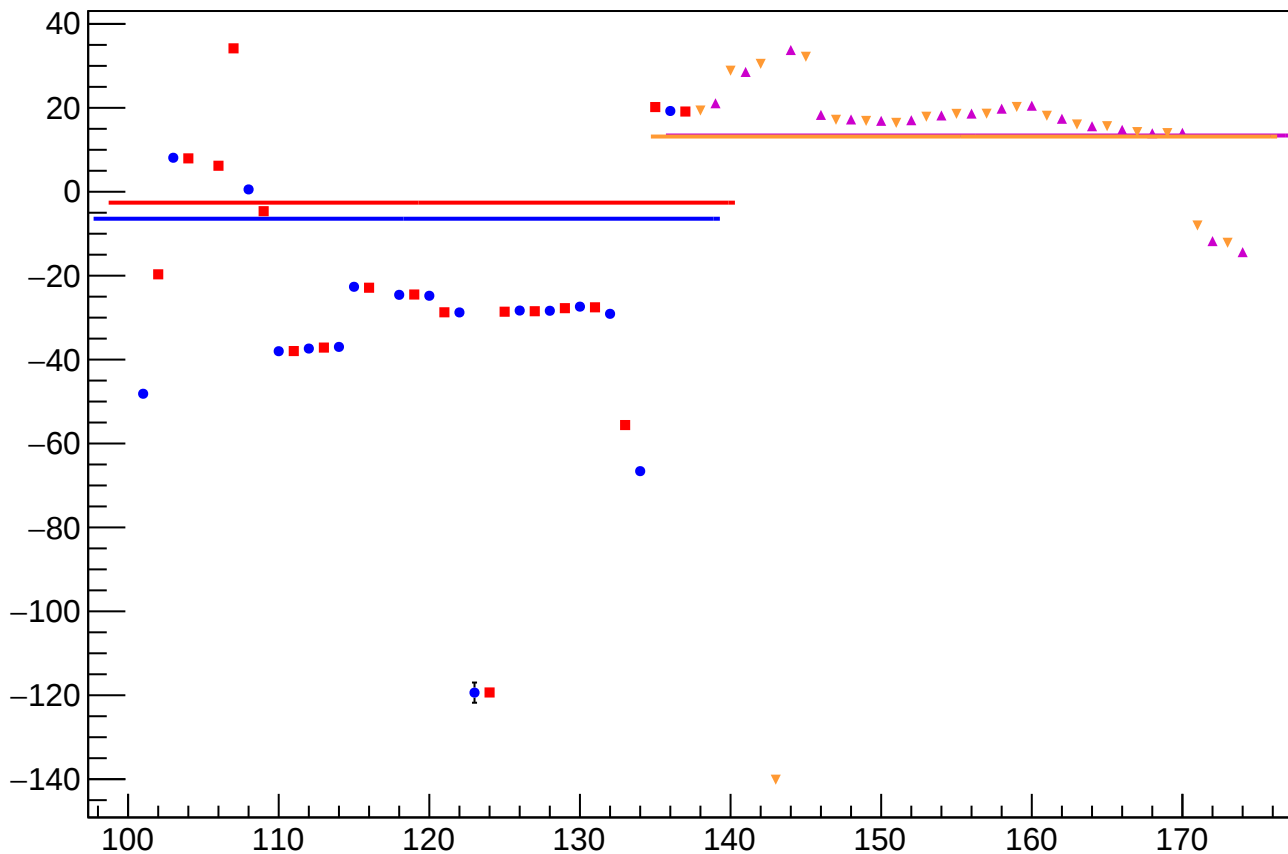
Right: 20.192+/-0.623  $\chi^2/\text{NDF}$ : 2143.8/34

In: -0.375+/-0.382  $\chi^2/\text{NDF}$ : 2268.6/34

Out: -1.354+/-0.382  $\chi^2/\text{NDF}$ : 2284.9/36

All: -0.865+/-0.270  $\chi^2/\text{NDF}$ : 4556.9/71

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-6.428 \pm 0.046$   $\chi^2/\text{NDF}$ : 265170.6/16

Left Out:  $13.160 \pm 0.020$   $\chi^2/\text{NDF}$ : 664957.0/18

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}$ : 263579.4/17

Left In:  $13.406 \pm 0.019$   $\chi^2/\text{NDF}$ : 397836.7/17

Left:  $13.287 \pm 0.014$   $\chi^2/\text{NDF}$ : 1062874.2/36

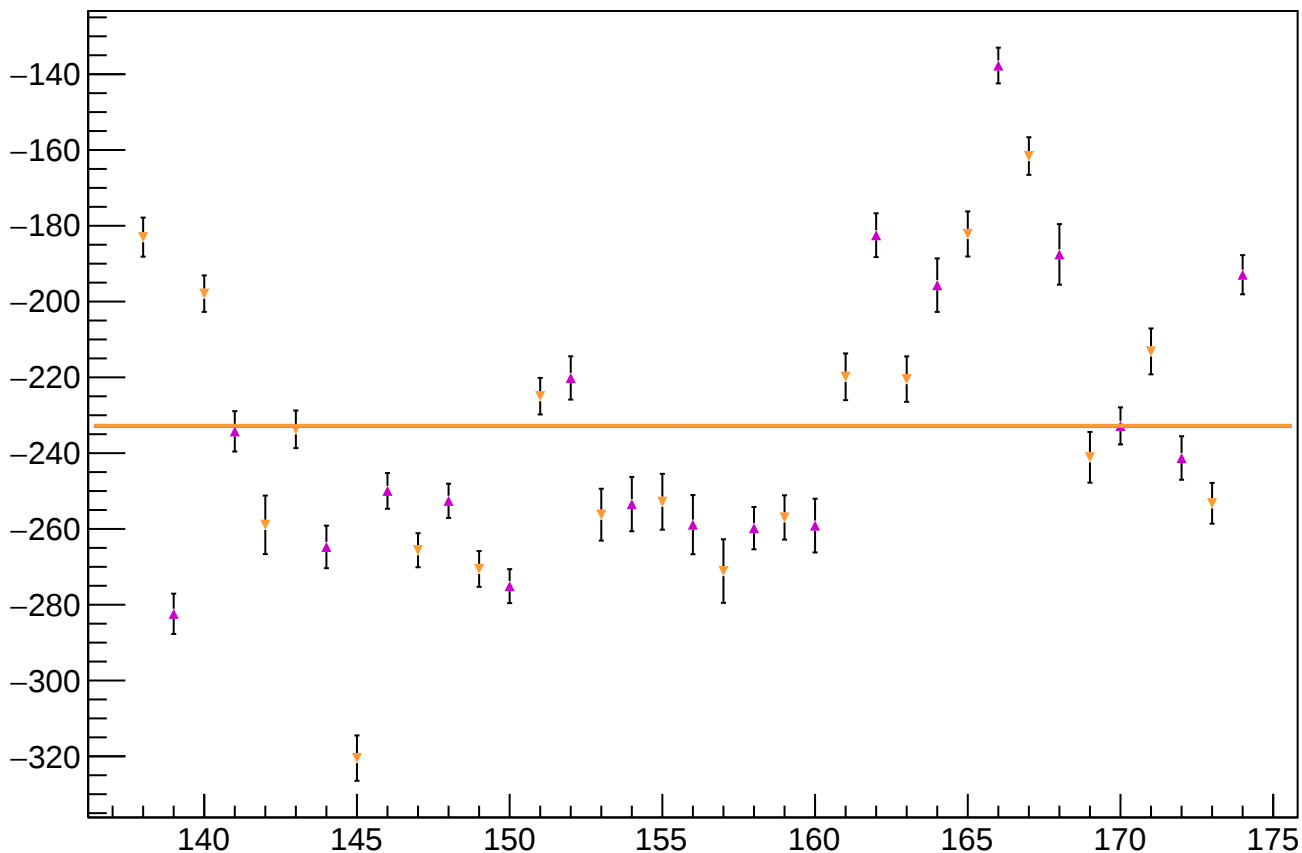
Right:  $-4.494 \pm 0.033$   $\chi^2/\text{NDF}$ : 532217.8/34

In:  $10.513 \pm 0.018$   $\chi^2/\text{NDF}$ : 820337.6/34

Out:  $10.706 \pm 0.018$   $\chi^2/\text{NDF}$ : 1028584.6/36

All:  $10.607 \pm 0.013$   $\chi^2/\text{NDF}$ : 1848981.1/71

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: -232.783+/-1.298  $\chi^2/\text{NDF}$ :861.7/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -232.845+/-1.308  $\chi^2/\text{NDF}$ :906.3/17

Left: -232.814+/-0.921  $\chi^2/\text{NDF}$ : 1767.9/36

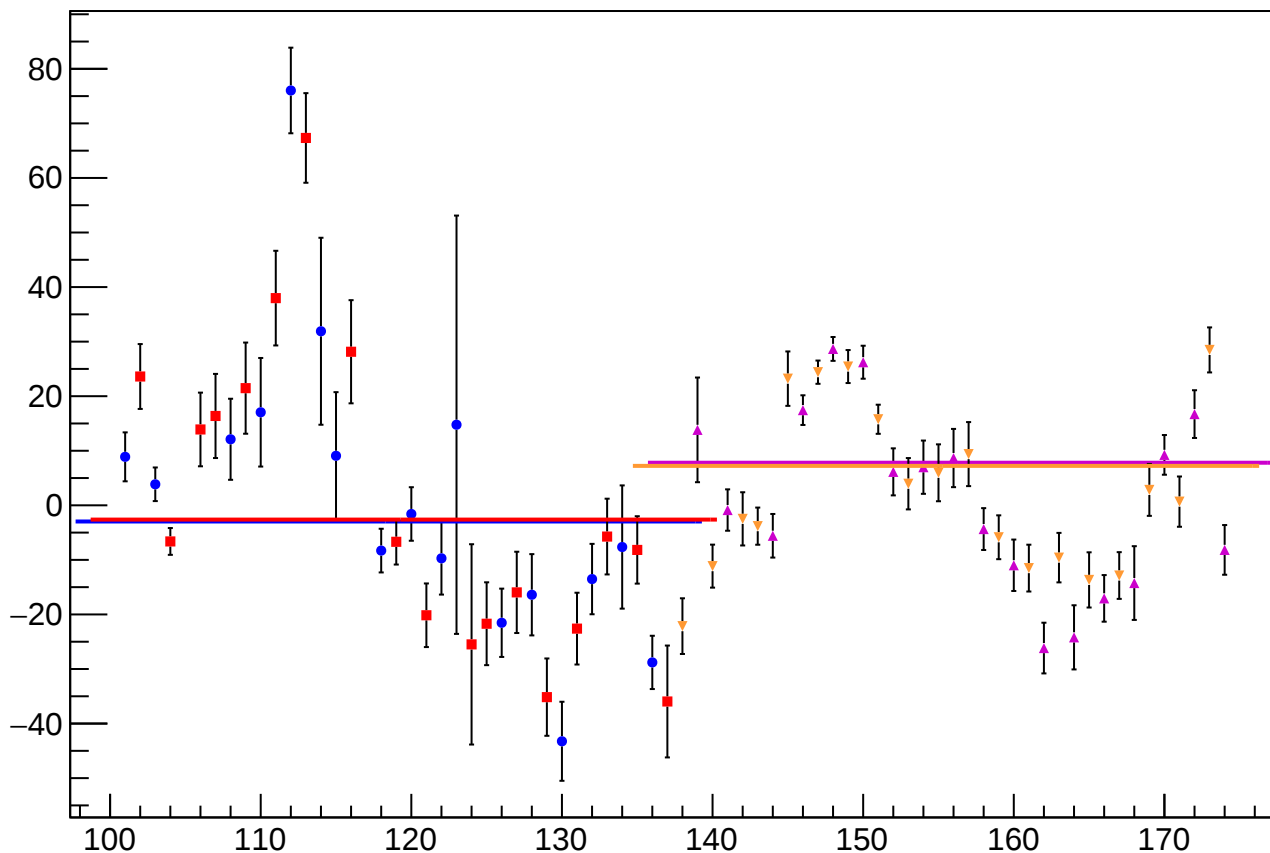
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -232.845+/-1.308  $\chi^2/\text{NDF}$ :906.3/17

Out: -232.783+/-1.298  $\chi^2/\text{NDF}$ :861.7/18

All: -232.814+/-0.921  $\chi^2/\text{NDF}$ : 1767.9/36

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:  $7.229 \pm 0.890$   $\chi^2/\text{NDF}$ : 303.7/18

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

Left In:  $7.806 \pm 0.925$   $\chi^2/\text{NDF}$ : 328.0/17

Left:  $7.507 \pm 0.642$   $\chi^2/\text{NDF}$ : 631.9/36

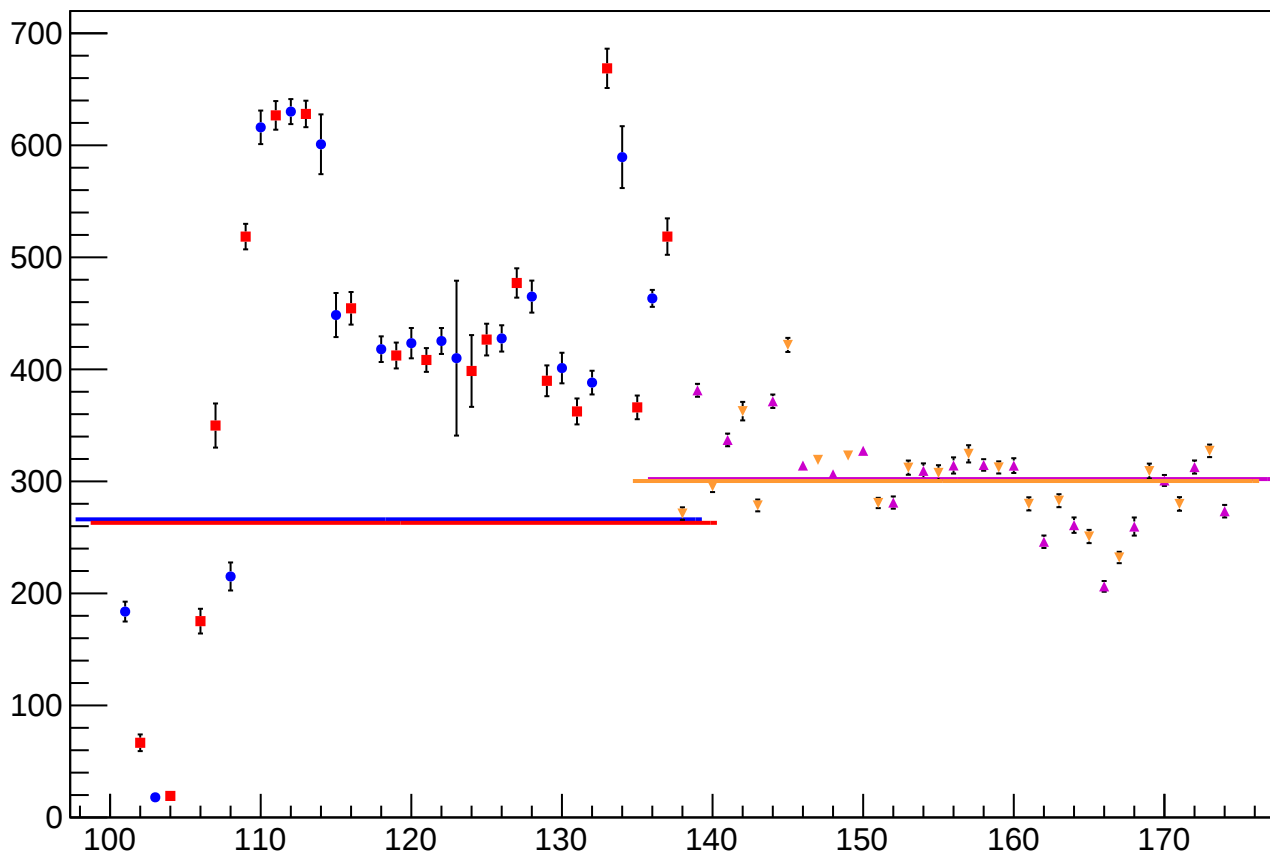
Right:  $-2.783 \pm 1.008$   $\chi^2/\text{NDF}$ : 414.0/34

In:  $4.699 \pm 0.780$   $\chi^2/\text{NDF}$ : 570.6/34

Out:  $4.390 \pm 0.751$   $\chi^2/\text{NDF}$ : 549.5/36

All:  $4.539 \pm 0.541$   $\chi^2/\text{NDF}$ : 1120.2/71

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 266.111+/-2.480  $\chi^2/\text{NDF}$ : 7644.0/16

Left Out: 300.328+/-1.286  $\chi^2/\text{NDF}$ : 866.9/18

Right Out: 263.003+/-2.467  $\chi^2/\text{NDF}$ : 8172.0/17

Left In: 302.057+/-1.289  $\chi^2/\text{NDF}$ : 1025.6/17

Left: 301.190+/-0.910  $\chi^2/\text{NDF}$ : 1893.4/36

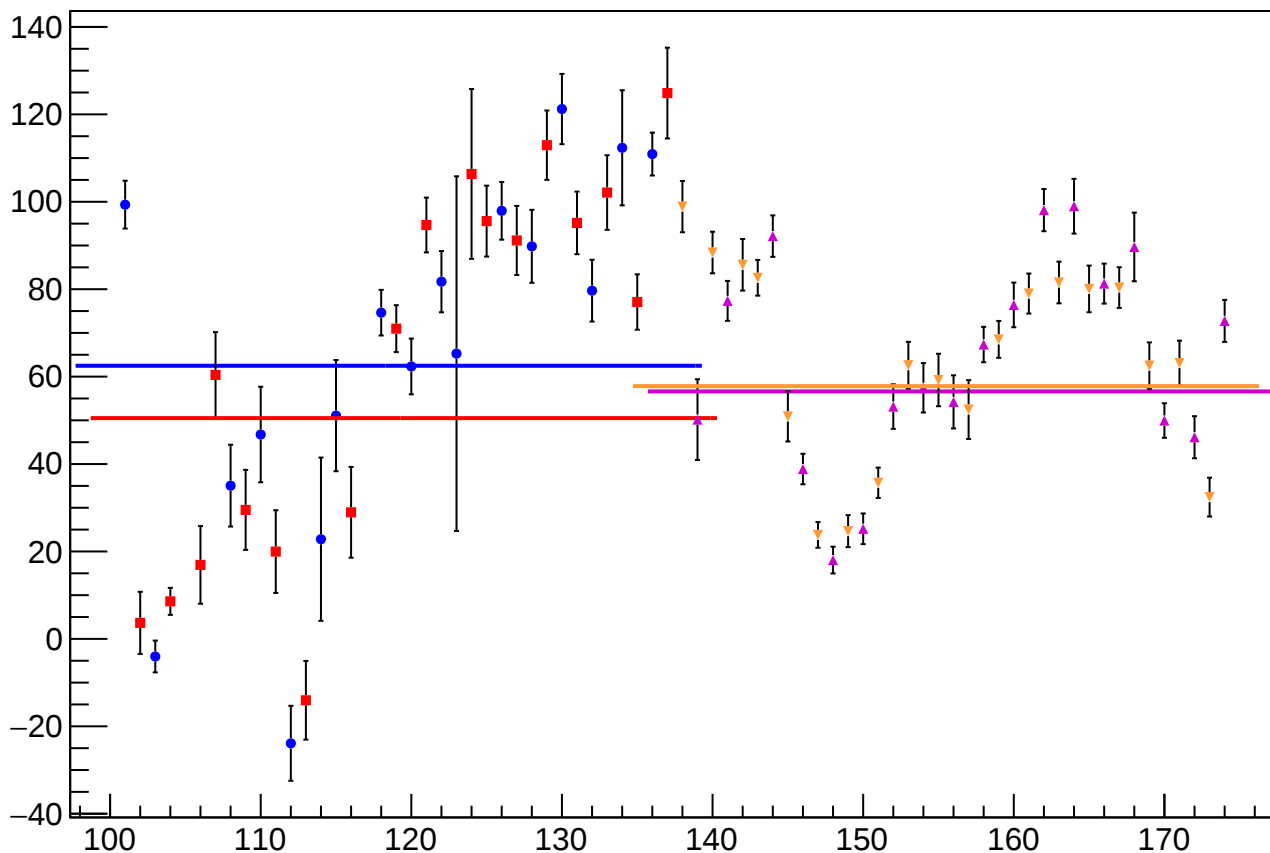
Right: 264.548+/-1.749  $\chi^2/\text{NDF}$ : 15816.8/34

In: 294.409+/-1.144  $\chi^2/\text{NDF}$ : 8835.0/34

Out: 292.355+/-1.140  $\chi^2/\text{NDF}$ : 9218.9/36

All: 293.378+/-0.808  $\chi^2/\text{NDF}$ : 18055.5/71

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: 57.822 $\pm$ 1.052  $\chi^2$ /NDF: 537.1/18

Right Out: 50.506 $\pm$ 1.644  $\chi^2$ /NDF: 650.6/17

Left In: 56.610 $\pm$ 1.082  $\chi^2$ /NDF: 550.3/17

Left: 57.233 $\pm$ 0.754  $\chi^2$ /NDF: 1088.0/36

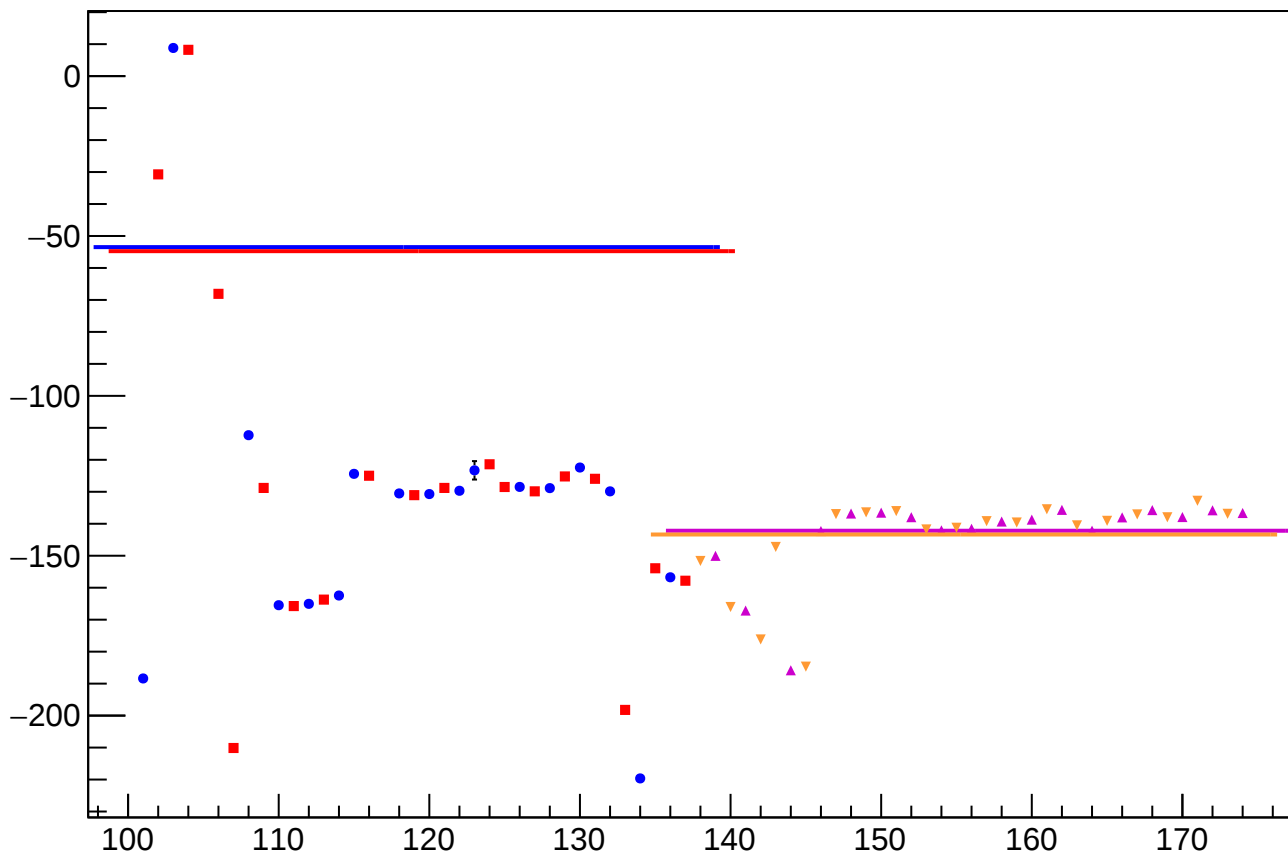
Right: 56.364 $\pm$ 1.175  $\chi^2$ /NDF: 1397.3/34

In: 58.332 $\pm$ 0.910  $\chi^2$ /NDF: 1279.7/34

Out: 55.698 $\pm$ 0.886  $\chi^2$ /NDF: 1201.7/36

All: 56.980 $\pm$ 0.635  $\chi^2$ /NDF: 2485.7/71

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-53.481 \pm 0.070$   $\chi^2/\text{NDF}: 1228730.5/16$

Left Out:  $-143.363 \pm 0.051$   $\chi^2/\text{NDF}: 60385.4/18$

Right Out:  $-54.748 \pm 0.072$   $\chi^2/\text{NDF}: 952446.3/17$

Left In:  $-142.185 \pm 0.051$   $\chi^2/\text{NDF}: 47622.4/17$

Left:  $-142.771 \pm 0.036$   $\chi^2/\text{NDF}: 108276.2/36$

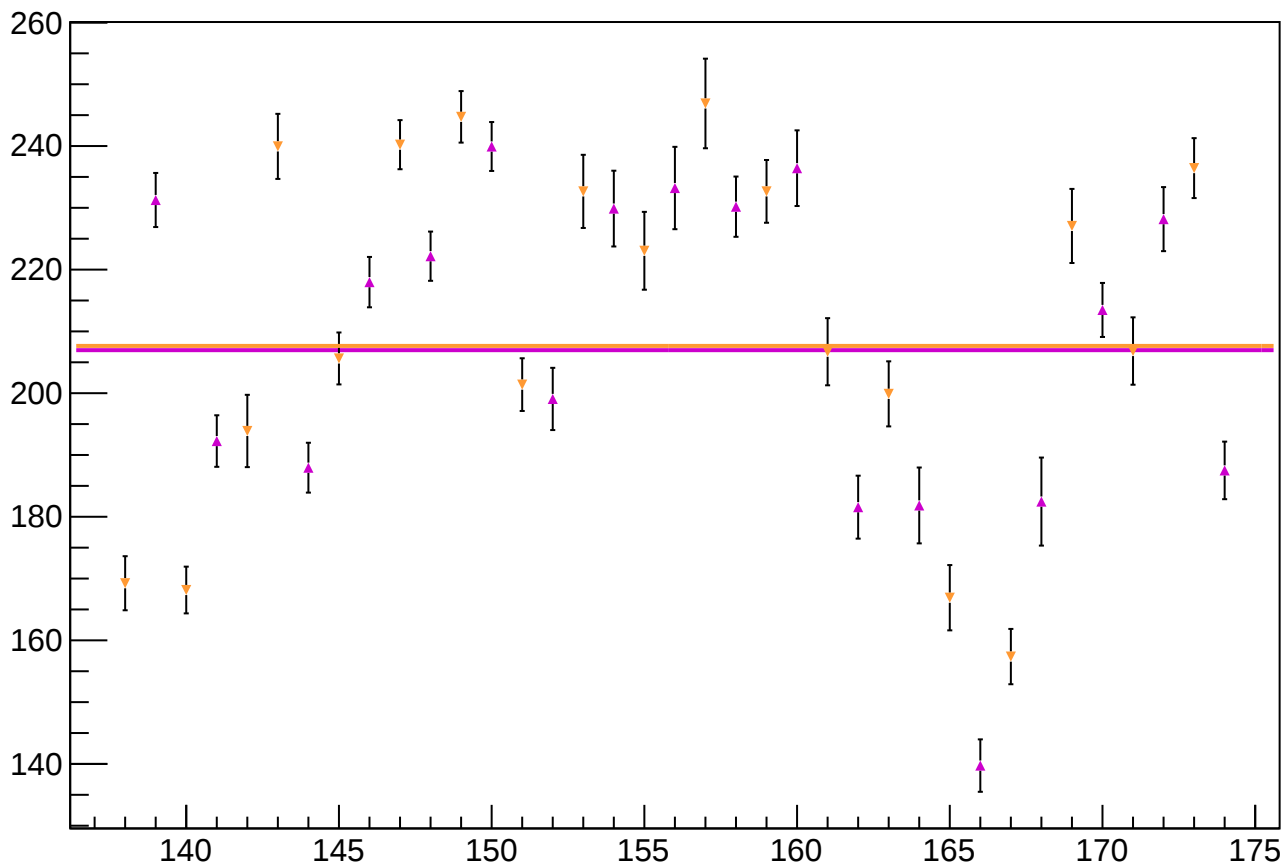
Right:  $-54.098 \pm 0.050$   $\chi^2/\text{NDF}: 2181335.1/34$

In:  $-111.836 \pm 0.041$   $\chi^2/\text{NDF}: 2323473.7/34$

Out:  $-113.873 \pm 0.042$   $\chi^2/\text{NDF}: 2019799.7/36$

All:  $-112.843 \pm 0.029$   $\chi^2/\text{NDF}: 4344485.5/71$

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: 207.653+/-1.124  $\chi^2/\text{NDF}$ :688.8/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 206.962+/-1.124  $\chi^2/\text{NDF}$ :575.4/17

Left: 207.308+/-0.795  $\chi^2/\text{NDF}$ : 1264.4/36

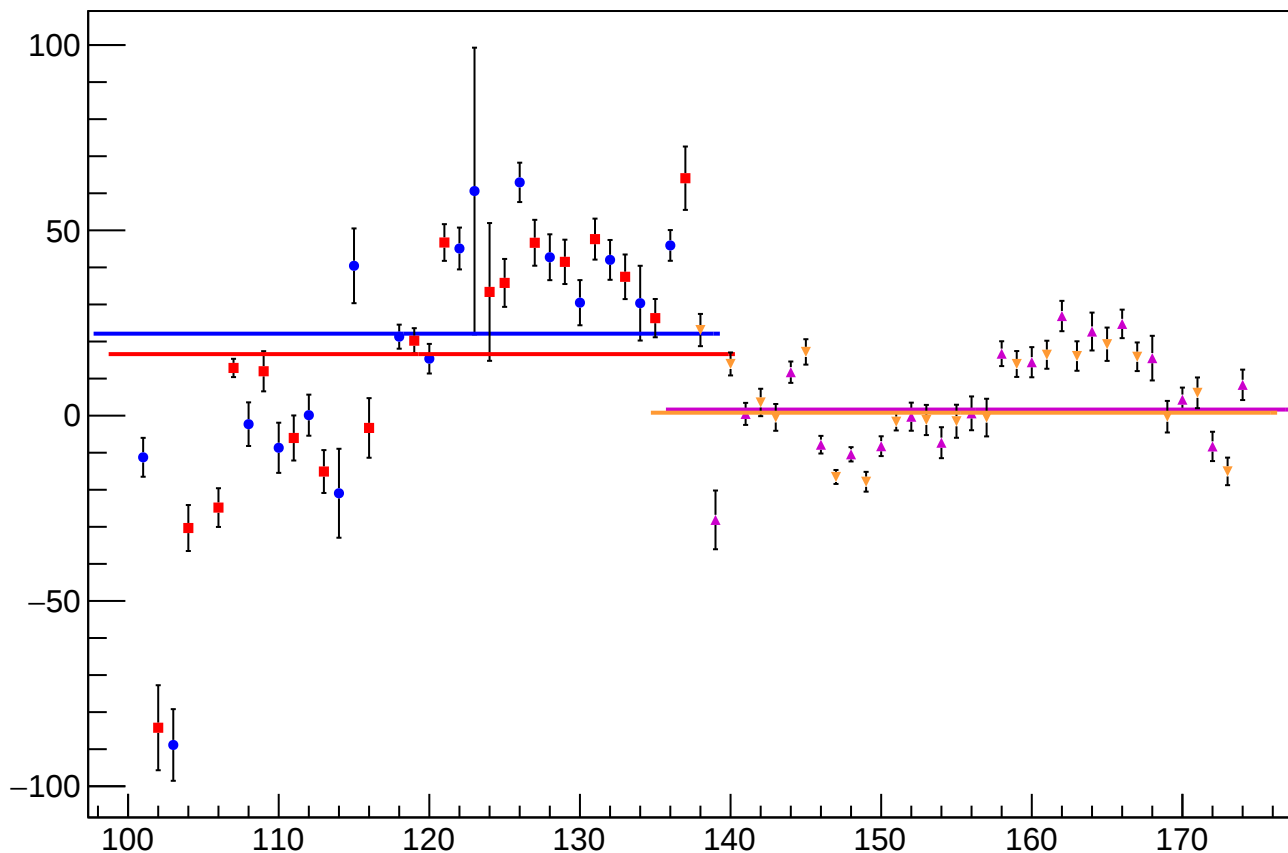
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 206.962+/-1.124  $\chi^2/\text{NDF}$ :575.4/17

Out: 207.653+/-1.124  $\chi^2/\text{NDF}$ :688.8/18

All: 207.308+/-0.795  $\chi^2/\text{NDF}$ : 1264.4/36

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 22.119+/-1.376  $\chi^2/\text{NDF}$ : 382.0/16

Left Out: 0.793+/-0.776  $\chi^2/\text{NDF}$ :300.9/18

Right Out: 16.602+/-1.229  $\chi^2/\text{NDF}$ : 416.8/17

Left In: 1.641+/-0.798  $\chi^2/\text{NDF}$ :236.3/17

Left: 1.205+/-0.556  $\chi^2/\text{NDF}$ : 537.8/36

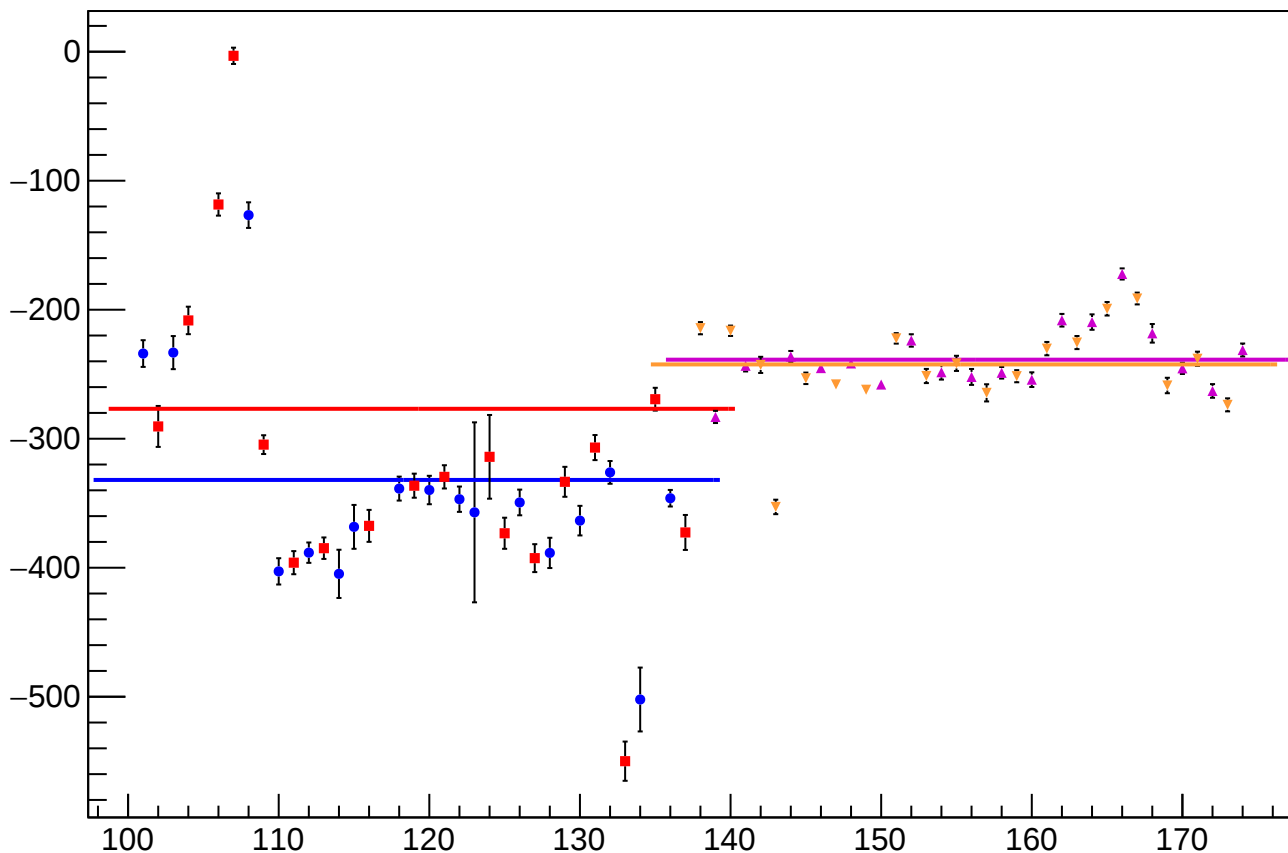
Right: 19.049+/-0.917  $\chi^2/\text{NDF}$ : 807.7/34

In: 6.794+/-0.690  $\chi^2/\text{NDF}$ :783.9/34

Out: 5.300+/-0.656  $\chi^2/\text{NDF}$ :836.1/36

All: 6.009+/-0.476  $\chi^2/\text{NDF}$ : 1622.4/71

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -331.952 $\pm$ 2.567  $\chi^2$ /NDF: 785.6/16

Left Out: -242.406 $\pm$ 1.116  $\chi^2$ /NDF:809.7/18

Right Out: -276.804 $\pm$ 2.329  $\chi^2$ /NDF: 3330.4/17

Left In: -238.731 $\pm$ 1.112  $\chi^2$ /NDF:482.0/17

Left: -240.561 $\pm$ 0.788  $\chi^2$ /NDF: 1297.1/36

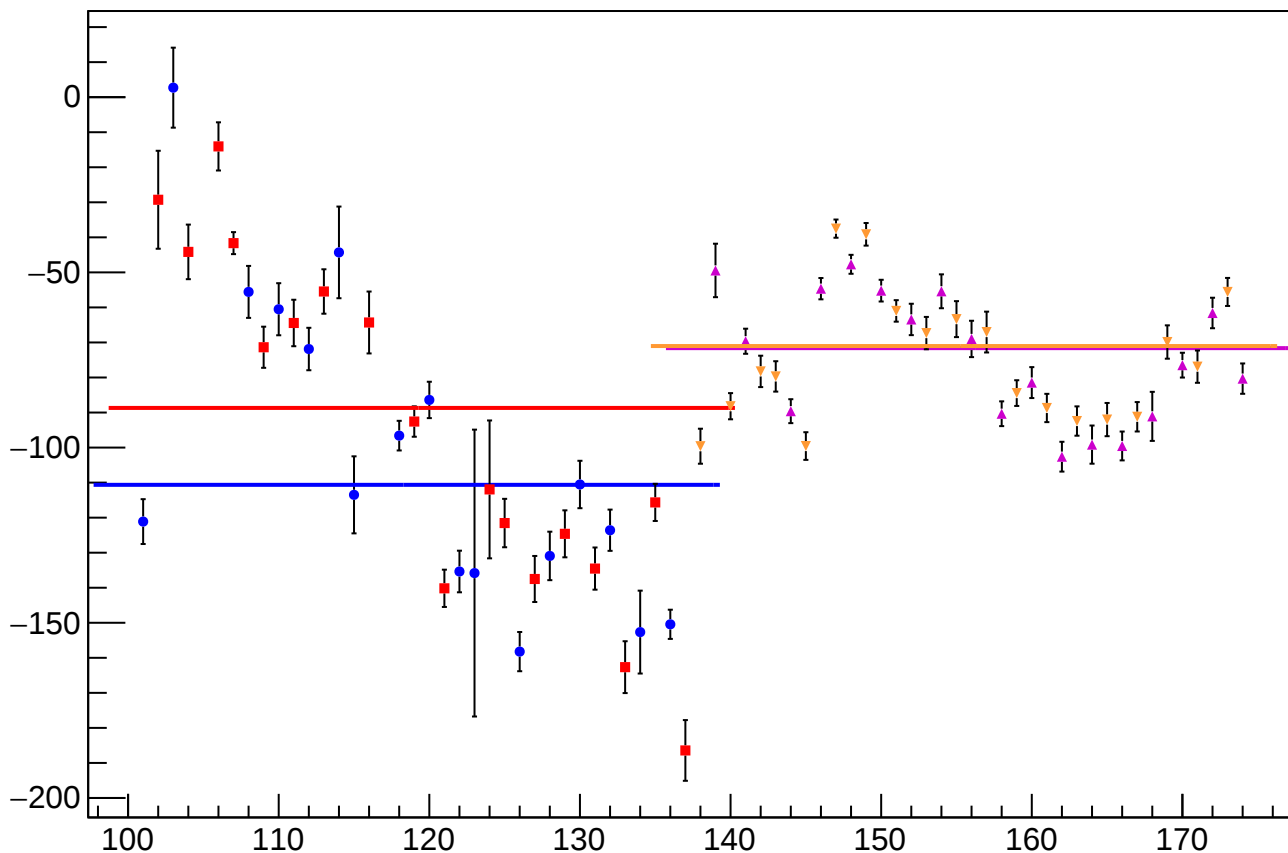
Right: -301.706 $\pm$ 1.725  $\chi^2$ /NDF: 4369.1/34

In: -253.453 $\pm$ 1.020  $\chi^2$ /NDF:2377.9/34

Out: -248.830 $\pm$ 1.007  $\chi^2$ /NDF:4317.4/36

All: -251.110 $\pm$ 0.717  $\chi^2$ /NDF: 6705.7/71

reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -110.633+/-1.581  $\chi^2/\text{NDF}$ : 508.9/16

Left Out: -71.024+/-0.916  $\chi^2/\text{NDF}$ : 508.8/18

Right Out: -88.683+/-1.434  $\chi^2/\text{NDF}$ : 964.0/17

Left In: -71.621+/-0.934  $\chi^2/\text{NDF}$ : 365.5/17

Left: -71.316+/-0.654  $\chi^2/\text{NDF}$ : 874.5/36

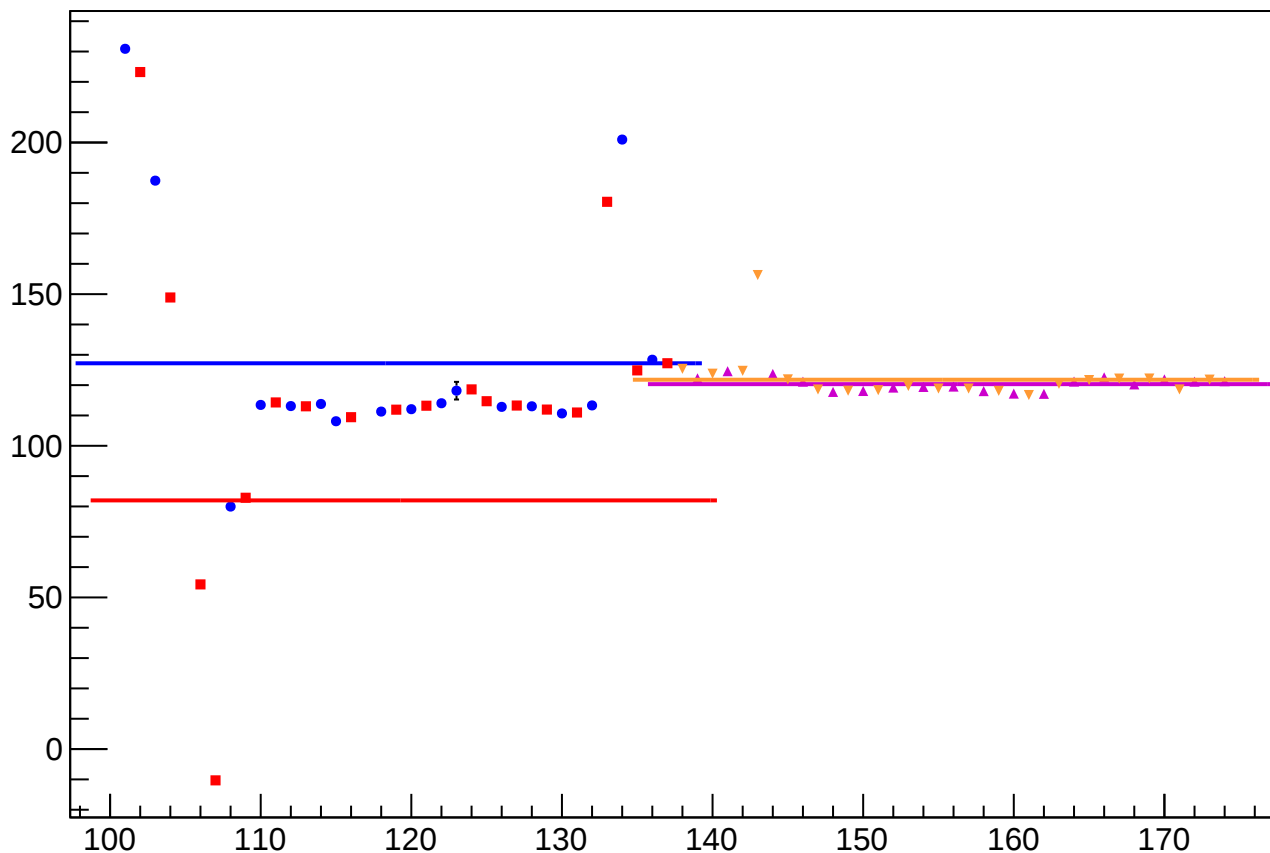
Right: -98.593+/-1.062  $\chi^2/\text{NDF}$ : 1578.5/34

In: -81.717+/-0.804  $\chi^2/\text{NDF}$ : 1325.6/34

Out: -76.141+/-0.772  $\chi^2/\text{NDF}$ : 1580.4/36

All: -78.815+/-0.557  $\chi^2/\text{NDF}$ : 2931.0/71

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: 121.784 $\pm$ 0.044  $\chi^2$ /NDF: 27034.0/18

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

Left In: 120.327 $\pm$ 0.044  $\chi^2$ /NDF: 2558.8/17

Left: 121.048 $\pm$ 0.031  $\chi^2$ /NDF: 30140.9/36

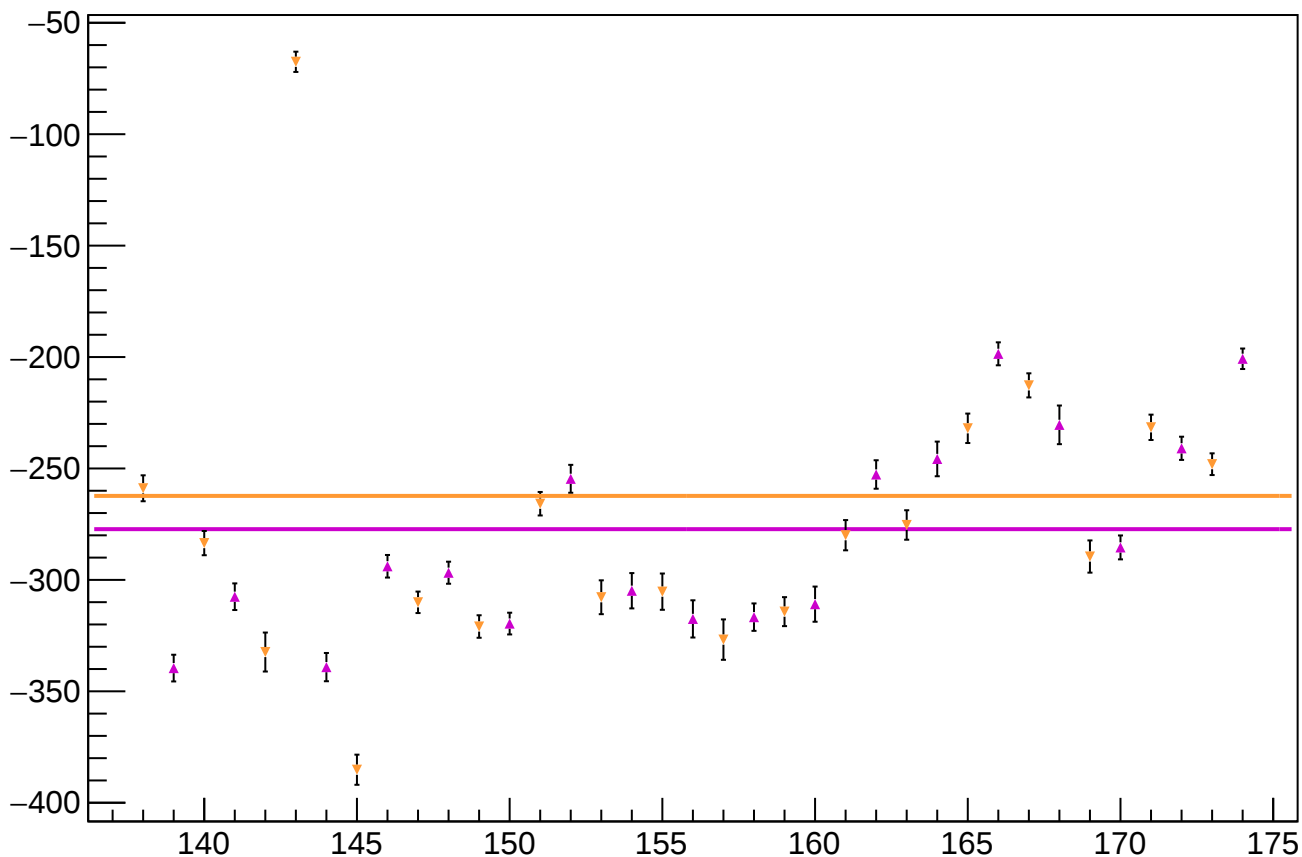
Right: 100.877 $\pm$ 0.058  $\chi^2$ /NDF: 1087676.4/34

In: 121.664 $\pm$ 0.039  $\chi^2$ /NDF: 195381.9/34

Out: 111.611 $\pm$ 0.038  $\chi^2$ /NDF: 983683.2/36

All: 116.491 $\pm$ 0.027  $\chi^2$ /NDF: 1212739.0/71

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:  $-262.306 \pm 1.378$   $\chi^2/\text{NDF}: 2822.3/18$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-277.234 \pm 1.398$   $\chi^2/\text{NDF}: 1059.7/17$

Left:  $-269.660 \pm 0.981$   $\chi^2/\text{NDF}: 3939.8/36$

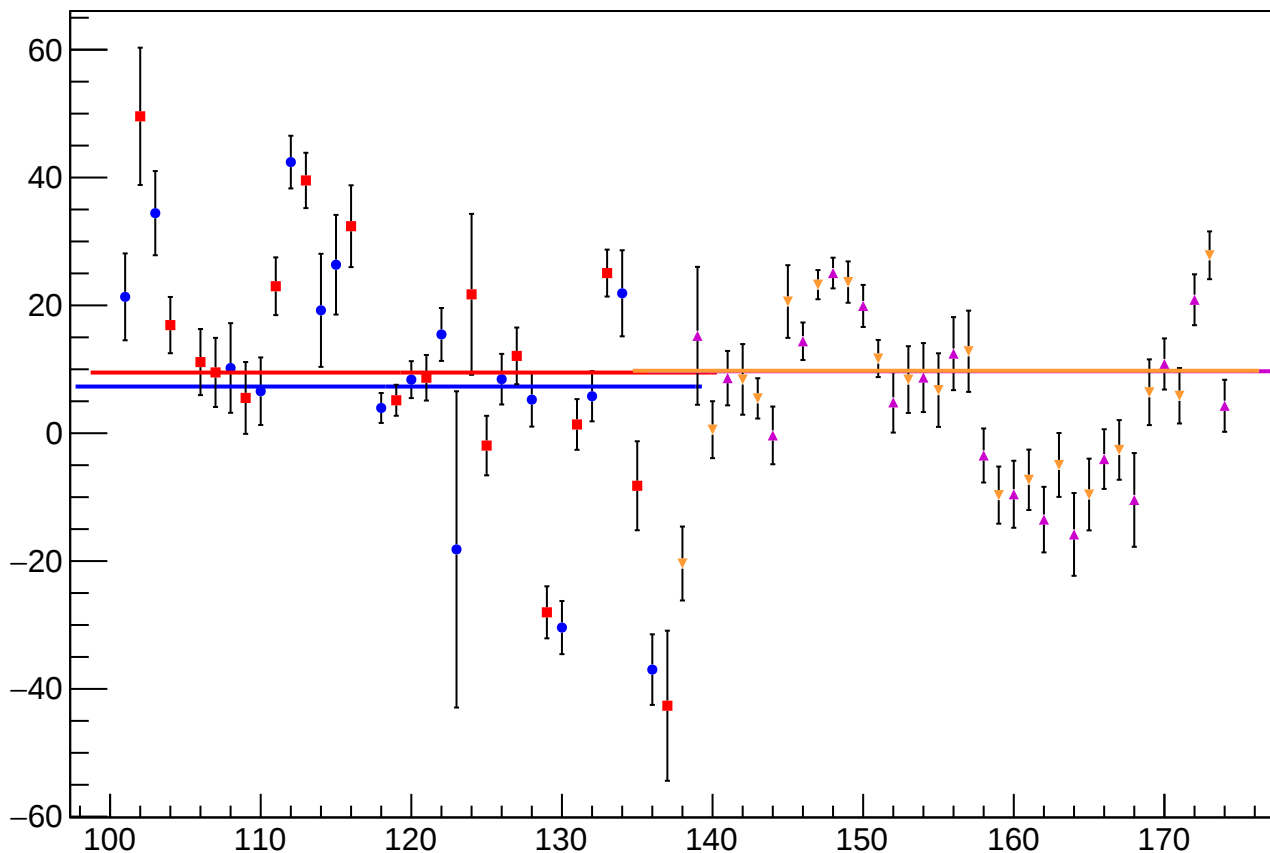
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-277.234 \pm 1.398$   $\chi^2/\text{NDF}: 1059.7/17$

Out:  $-262.306 \pm 1.378$   $\chi^2/\text{NDF}: 2822.3/18$

All:  $-269.660 \pm 0.981$   $\chi^2/\text{NDF}: 3939.8/36$

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:  $9.775 \pm 0.946$   $\chi^2/\text{NDF}$ : 175.5/18

Right Out:  $9.493 \pm 1.073$   $\chi^2/\text{NDF}$ : 231.1/17

Left In:  $9.694 \pm 0.995$   $\chi^2/\text{NDF}$ : 144.9/17

Left:  $9.736 \pm 0.686$   $\chi^2/\text{NDF}$ : 320.4/36

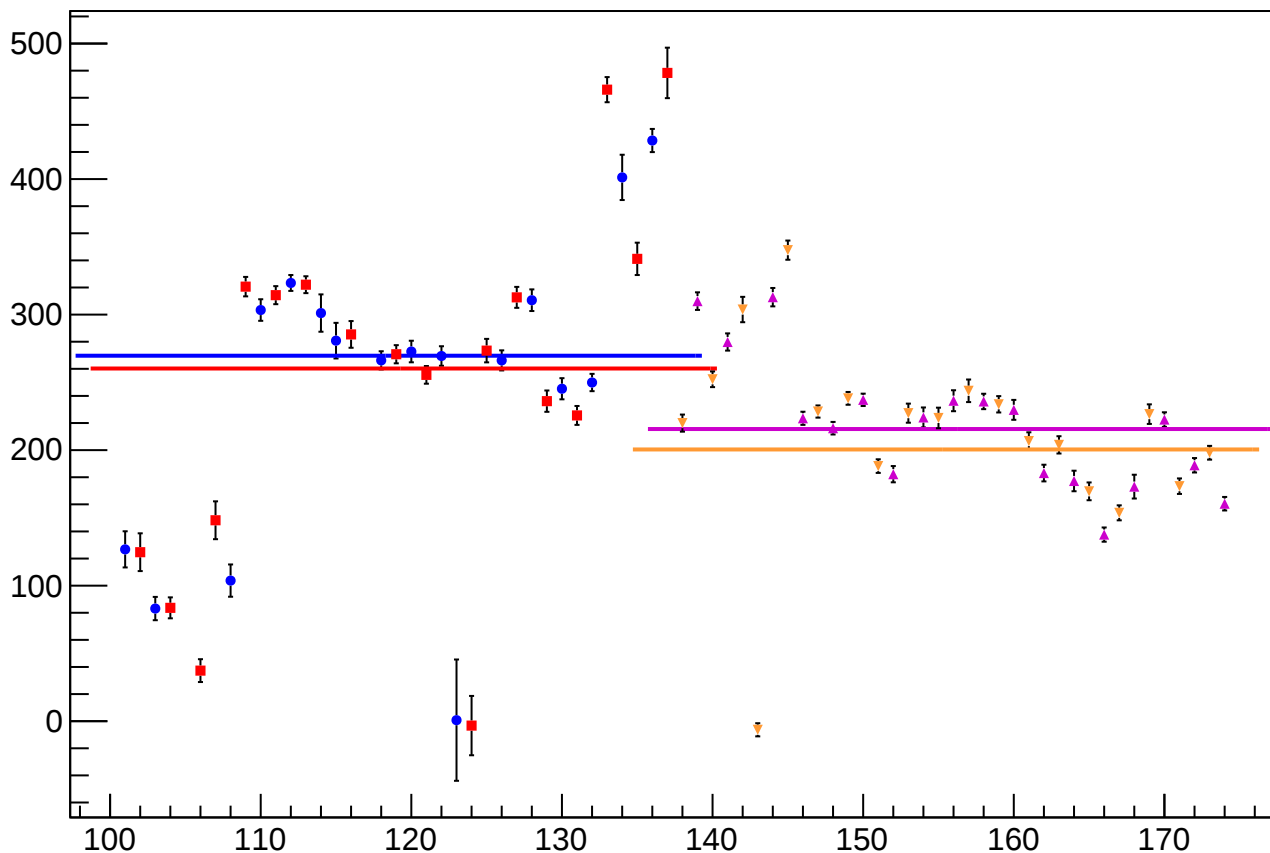
Right:  $8.410 \pm 0.763$   $\chi^2/\text{NDF}$ : 493.8/34

In:  $8.602 \pm 0.734$   $\chi^2/\text{NDF}$ : 408.2/34

Out:  $9.651 \pm 0.710$   $\chi^2/\text{NDF}$ : 406.7/36

All:  $9.144 \pm 0.510$   $\chi^2/\text{NDF}$ : 815.9/71

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: 200.495 $\pm$ 1.367  $\chi^2$ /NDF:2779.1/18

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

Left In: 215.574 $\pm$ 1.383  $\chi^2$ /NDF:1046.4/17

Left: 207.952 $\pm$ 0.972  $\chi^2$ /NDF: 3885.6/36

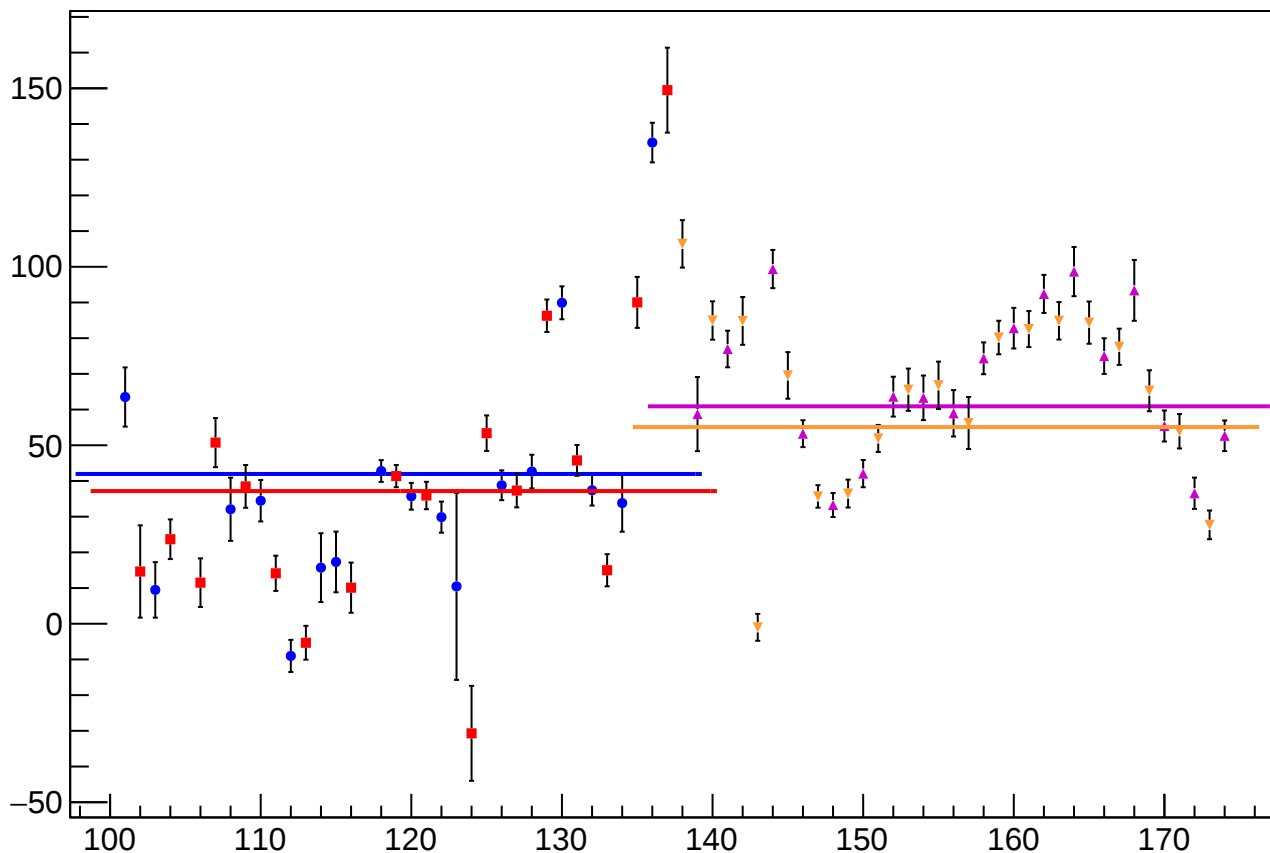
Right: 264.719 $\pm$ 1.432  $\chi^2$ /NDF: 3915.4/34

In: 232.193 $\pm$ 1.151  $\chi^2$ /NDF:2893.3/34

Out: 219.801 $\pm$ 1.125  $\chi^2$ /NDF:5923.7/36

All: 225.857 $\pm$ 0.804  $\chi^2$ /NDF: 8876.3/71

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $41.959 \pm 1.258$   $\chi^2/\text{NDF}: 574.2/16$

Left Out:  $55.107 \pm 1.116$   $\chi^2/\text{NDF}: 588.5/18$

Right Out:  $37.171 \pm 1.236$   $\chi^2/\text{NDF}: 470.9/17$

Left In:  $60.910 \pm 1.161$   $\chi^2/\text{NDF}: 305.7/17$

Left:  $57.895 \pm 0.804$   $\chi^2/\text{NDF}: 907.3/36$

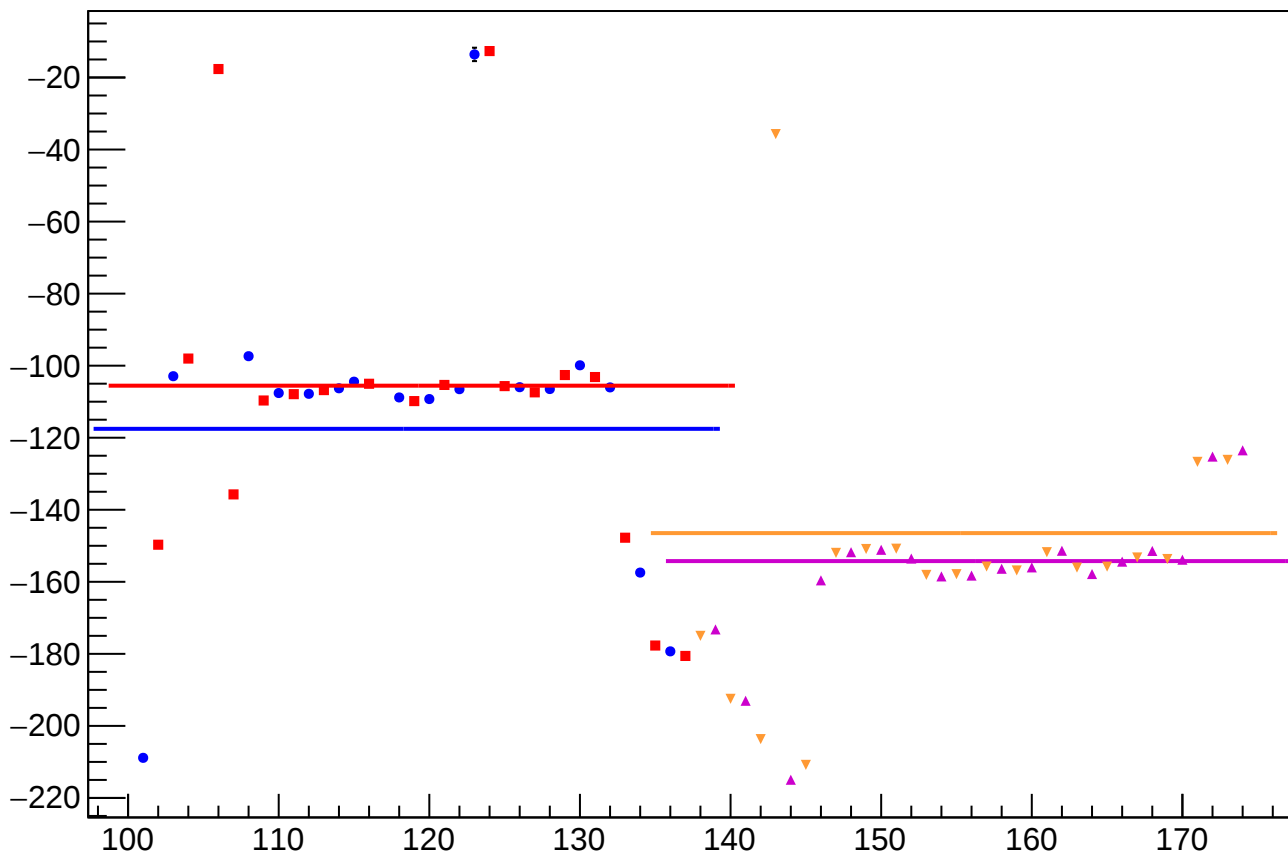
Right:  $39.523 \pm 0.882$   $\chi^2/\text{NDF}: 1052.5/34$

In:  $52.198 \pm 0.853$   $\chi^2/\text{NDF}: 1002.5/34$

Out:  $47.053 \pm 0.828$   $\chi^2/\text{NDF}: 1175.4/36$

All:  $49.550 \pm 0.594$   $\chi^2/\text{NDF}: 2196.7/71$

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-117.533 \pm 0.078$   $\chi^2/\text{NDF}: 142039.8/16$

Left Out:  $-146.480 \pm 0.054$   $\chi^2/\text{NDF}: 480331.5/18$

Right Out:  $-105.555 \pm 0.073$   $\chi^2/\text{NDF}: 317428.5/17$

Left In:  $-154.249 \pm 0.054$   $\chi^2/\text{NDF}: 125404.4/17$

Left:  $-150.353 \pm 0.038$   $\chi^2/\text{NDF}: 616053.6/36$

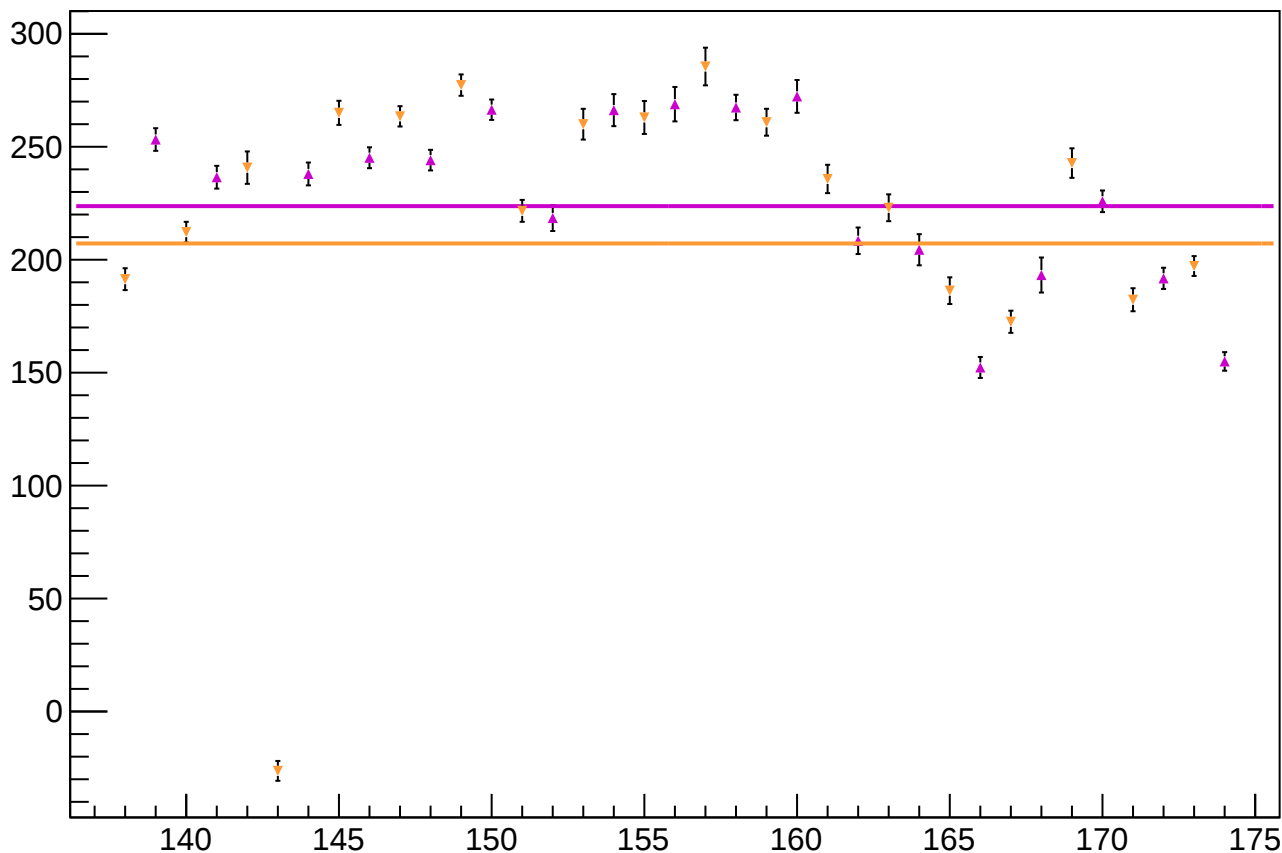
Right:  $-111.128 \pm 0.053$   $\chi^2/\text{NDF}: 472040.3/34$

In:  $-142.330 \pm 0.045$   $\chi^2/\text{NDF}: 416613.7/34$

Out:  $-131.972 \pm 0.043$   $\chi^2/\text{NDF}: 1001347.7/36$

All:  $-137.019 \pm 0.031$   $\chi^2/\text{NDF}: 1445730.6/71$

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: 207.198+/-1.237  $\chi^2/\text{NDF}$ : 3795.1/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 223.720+/-1.249  $\chi^2/\text{NDF}$ : 949.2/17

Left: 215.379+/-0.879  $\chi^2/\text{NDF}$ : 4832.7/36

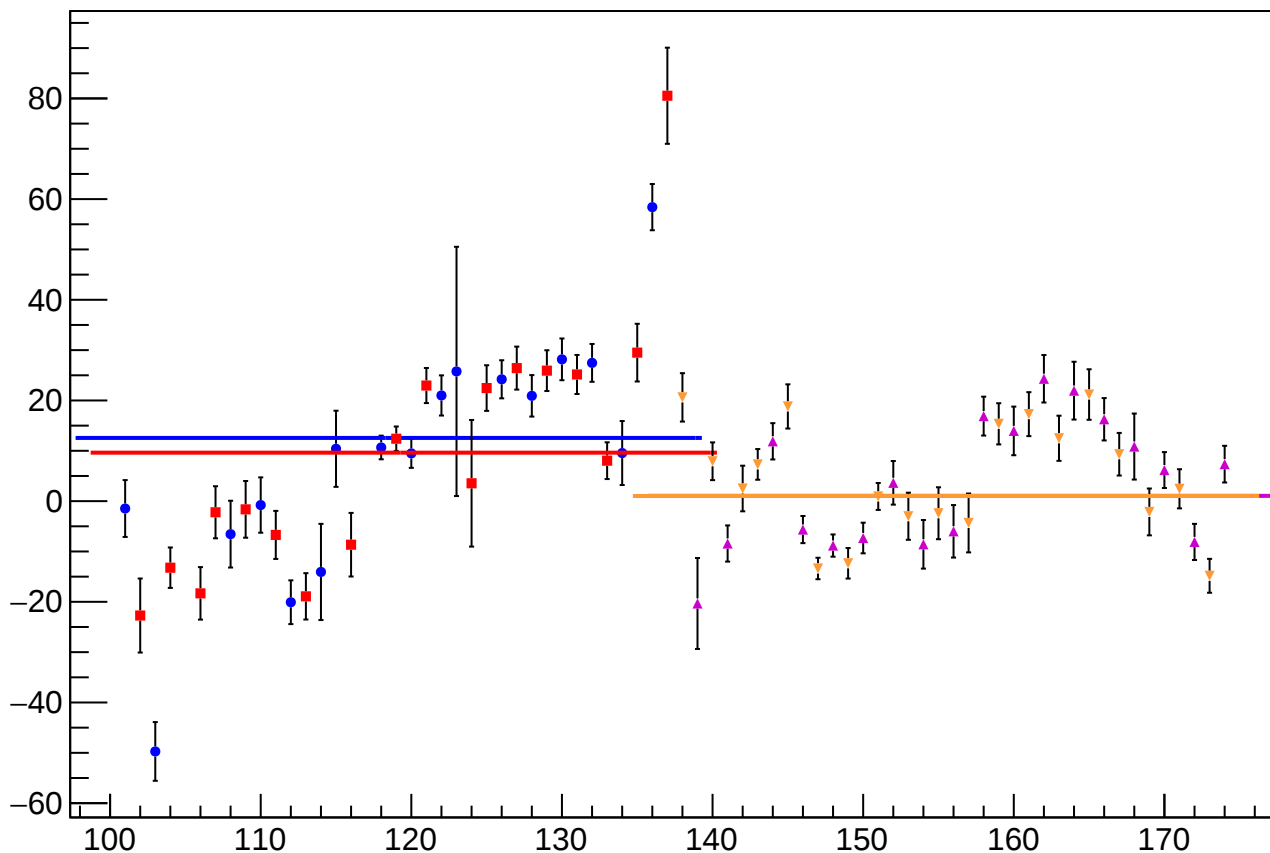
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 223.720+/-1.249  $\chi^2/\text{NDF}$ : 949.2/17

Out: 207.198+/-1.237  $\chi^2/\text{NDF}$ : 3795.1/18

All: 215.379+/-0.879  $\chi^2/\text{NDF}$ : 4832.7/36

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: 1.020 $\pm$ 0.857  $\chi^2$ /NDF:183.3/18

Right Out: 9.631 $\pm$ 1.049  $\chi^2$ /NDF: 287.5/17

Left In: 1.051 $\pm$ 0.896  $\chi^2$ /NDF:149.8/17

Left: 1.035 $\pm$ 0.619  $\chi^2$ /NDF: 333.1/36

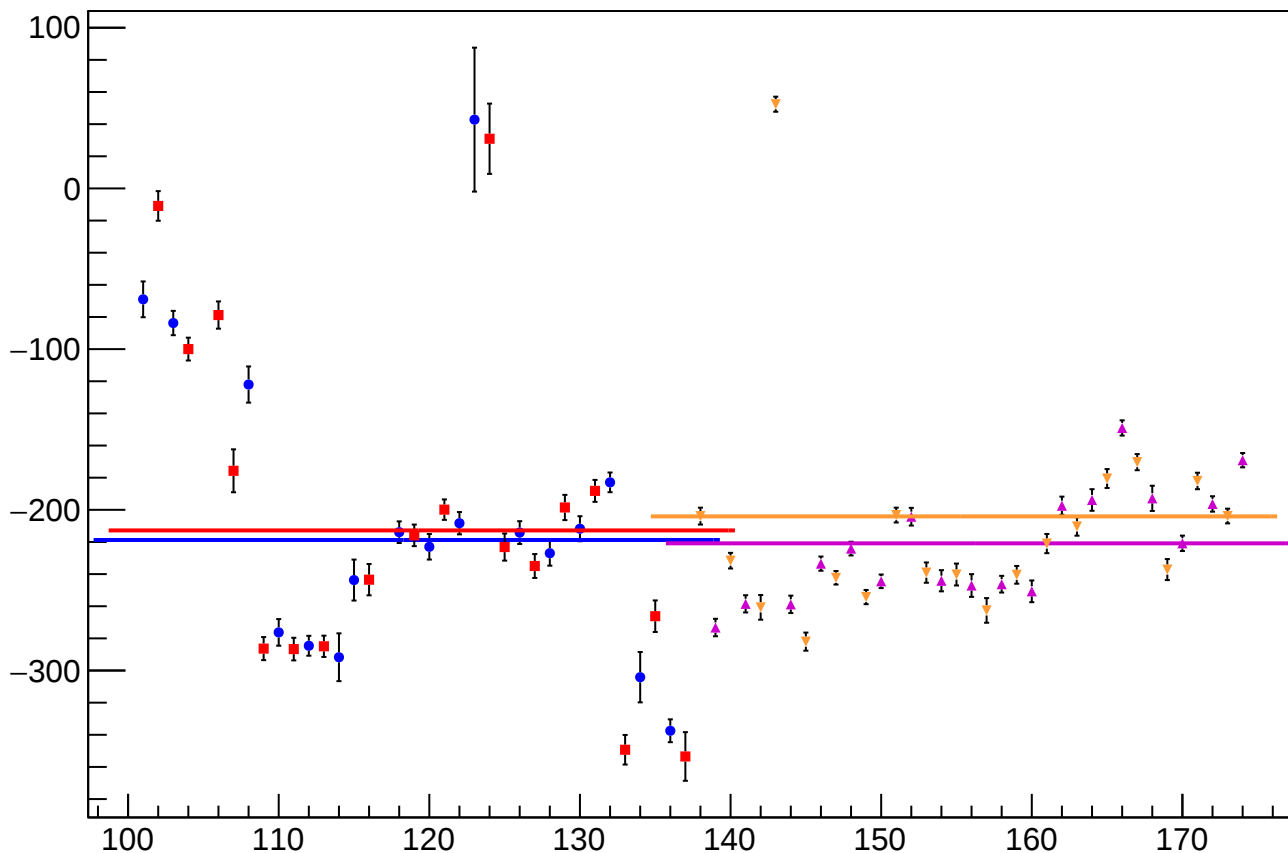
Right: 11.084 $\pm$ 0.745  $\chi^2$ /NDF: 639.9/34

In: 5.859 $\pm$ 0.683  $\chi^2$ /NDF:567.4/34

Out: 4.466 $\pm$ 0.664  $\chi^2$ /NDF:511.2/36

All: 5.142 $\pm$ 0.476  $\chi^2$ /NDF: 1080.7/71

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:  $-204.095 \pm 1.231$   $\chi^2/\text{NDF}: 3757.5/18$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

Left In:  $-220.860 \pm 1.239$   $\chi^2/\text{NDF}: 747.5/17$

Left:  $-212.427 \pm 0.873$   $\chi^2/\text{NDF}: 4597.2/36$

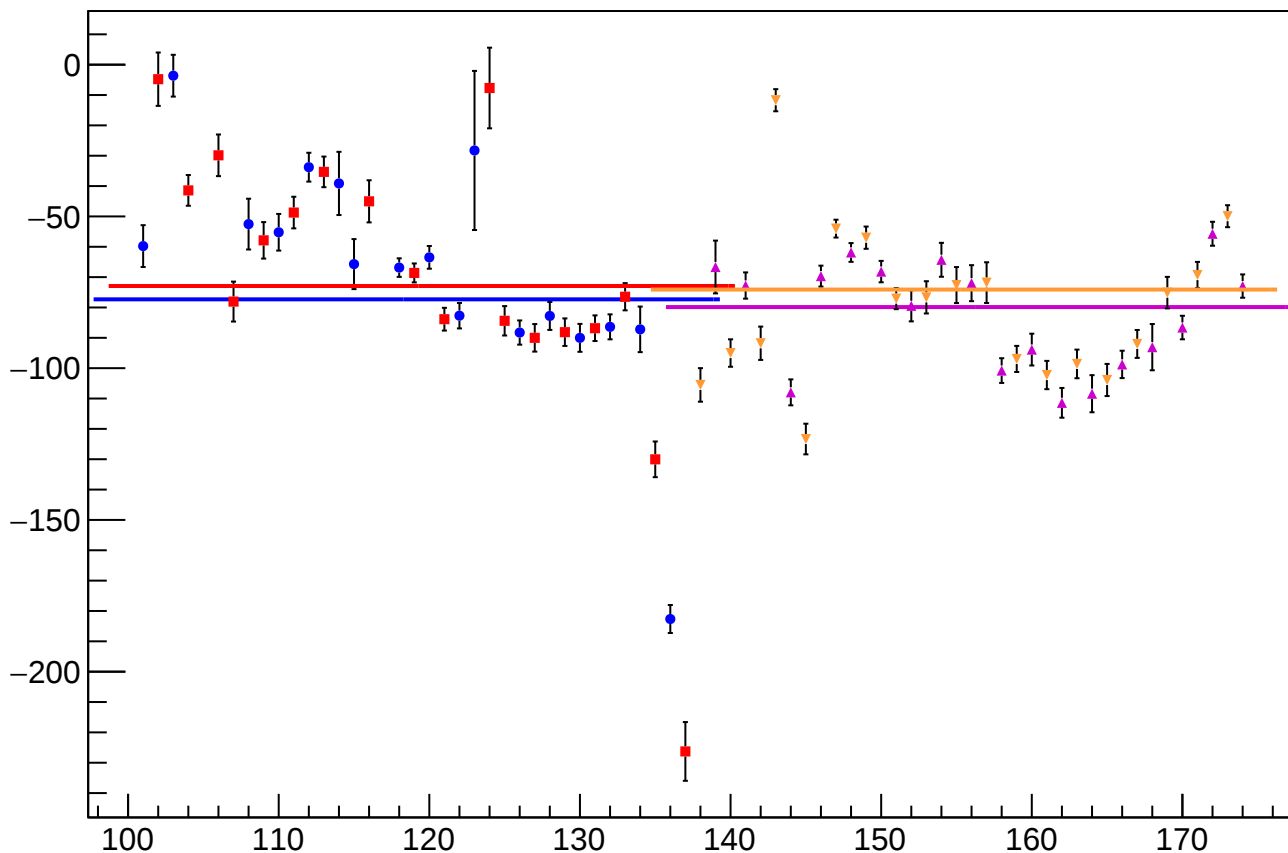
Right:  $-215.666 \pm 1.391$   $\chi^2/\text{NDF}: 2973.5/34$

In:  $-220.285 \pm 1.055$   $\chi^2/\text{NDF}: 1892.7/34$

Out:  $-206.624 \pm 1.037$   $\chi^2/\text{NDF}: 5596.6/36$

All:  $-213.343 \pm 0.740$   $\chi^2/\text{NDF}: 7574.6/71$

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: -74.097 $\pm$ 1.009  $\chi^2/\text{NDF}$ : 706.5/18

Right Out: -72.922 $\pm$ 1.208  $\chi^2/\text{NDF}$ : 660.8/17

Left In: -79.865 $\pm$ 1.043  $\chi^2/\text{NDF}$ : 272.4/17

Left: -76.884 $\pm$ 0.725  $\chi^2/\text{NDF}$ : 994.7/36

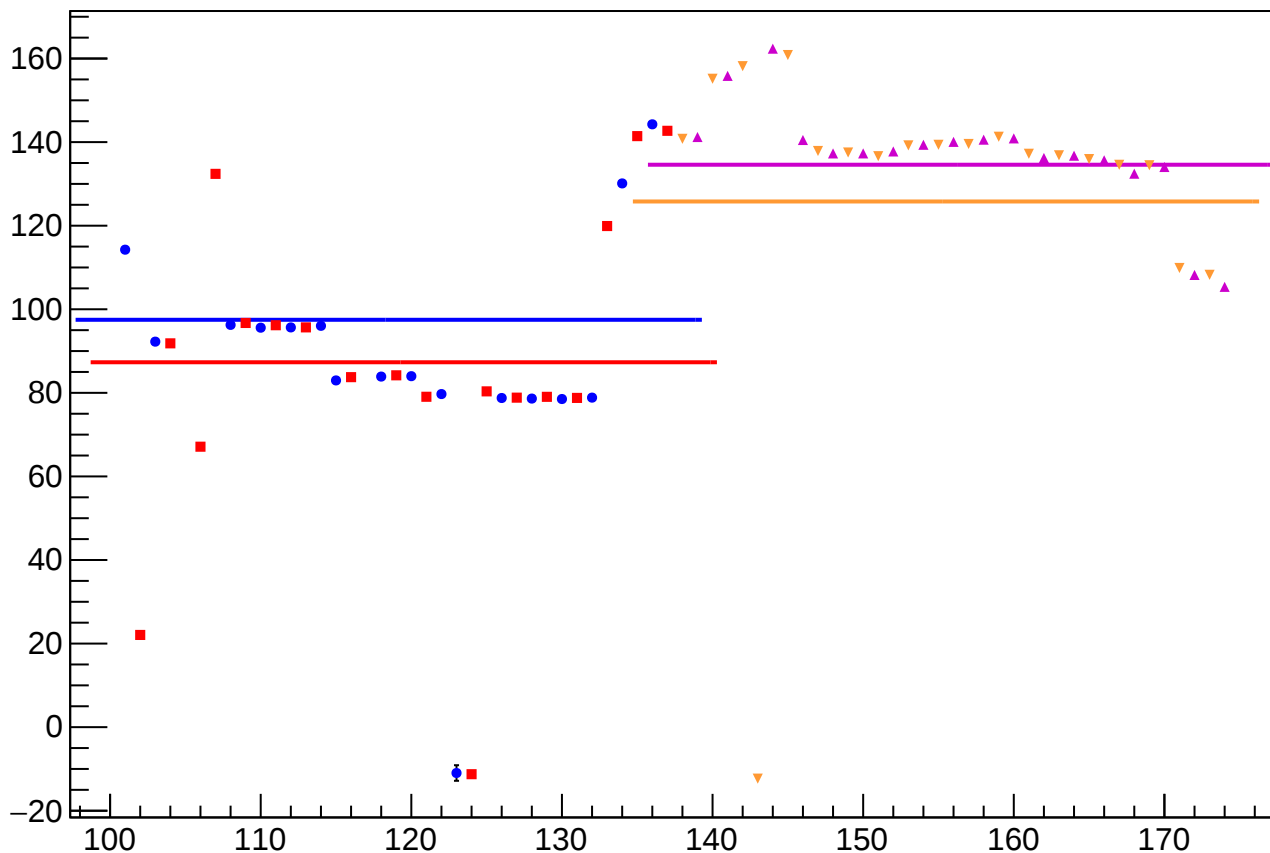
Right: -75.095 $\pm$ 0.859  $\chi^2/\text{NDF}$ : 1485.1/34

In: -78.792 $\pm$ 0.793  $\chi^2/\text{NDF}$ : 1092.6/34

Out: -73.614 $\pm$ 0.774  $\chi^2/\text{NDF}$ : 1367.9/36

All: -76.140 $\pm$ 0.554  $\chi^2/\text{NDF}$ : 2482.3/71

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 97.483+/-0.073  $\chi^2$ /NDF: 94392.9/16

Left Out: 125.794+/-0.049  $\chi^2$ /NDF: 653578.5/18

Right Out: 87.318+/-0.068  $\chi^2$ /NDF: 221863.6/17

Left In: 134.587+/-0.049  $\chi^2$ /NDF: 85127.4/17

Left: 130.196+/-0.034  $\chi^2$ /NDF: 755113.9/36

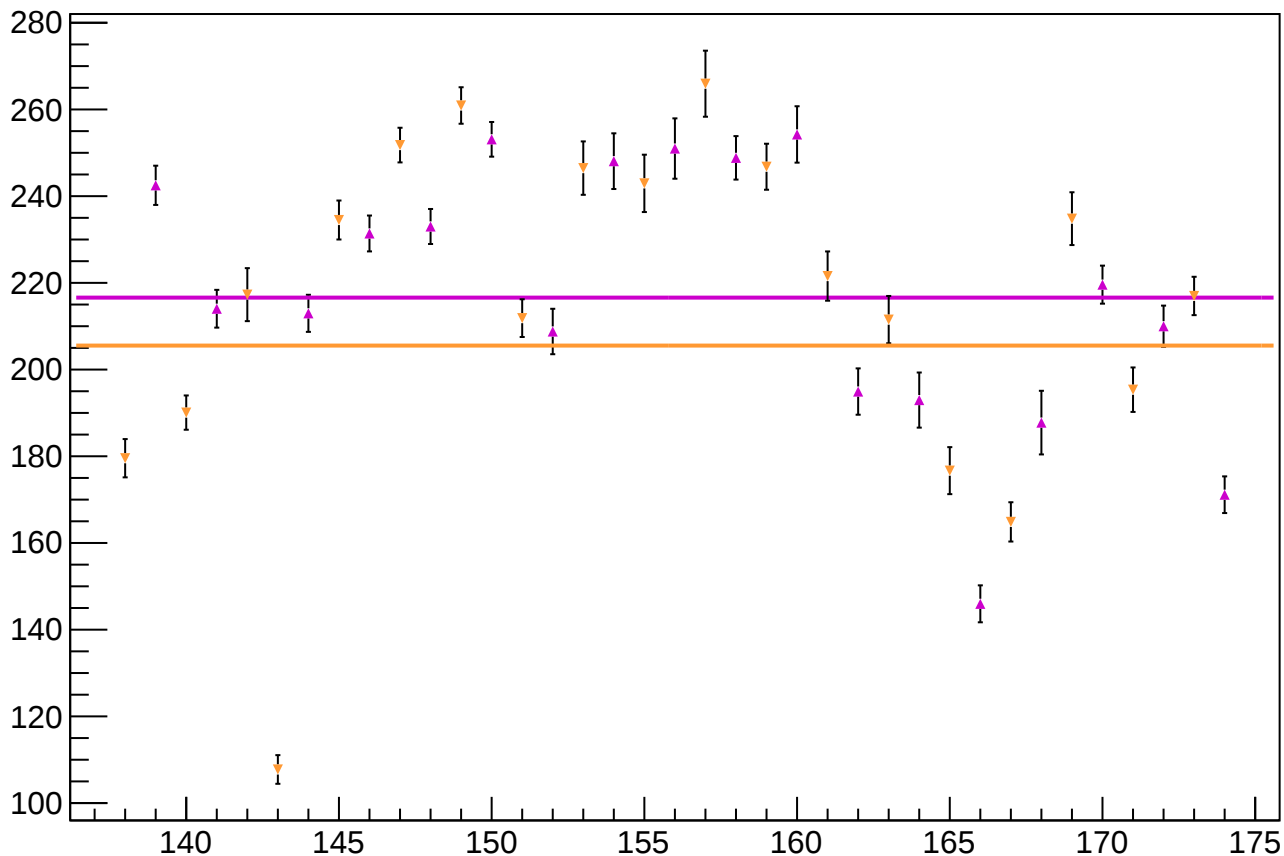
Right: 92.040+/-0.050  $\chi^2$ /NDF: 326534.9/34

In: 123.301+/-0.040  $\chi^2$ /NDF: 357491.0/34

Out: 112.880+/-0.040  $\chi^2$ /NDF: 1086026.2/36

All: 117.977+/-0.028  $\chi^2$ /NDF: 1477399.4/71

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: 205.533+/-1.104  $\chi^2/\text{NDF}$ :1630.2/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 216.597+/-1.141  $\chi^2/\text{NDF}$ :710.0/17

Left: 210.885+/-0.793  $\chi^2/\text{NDF}$ : 2388.7/36

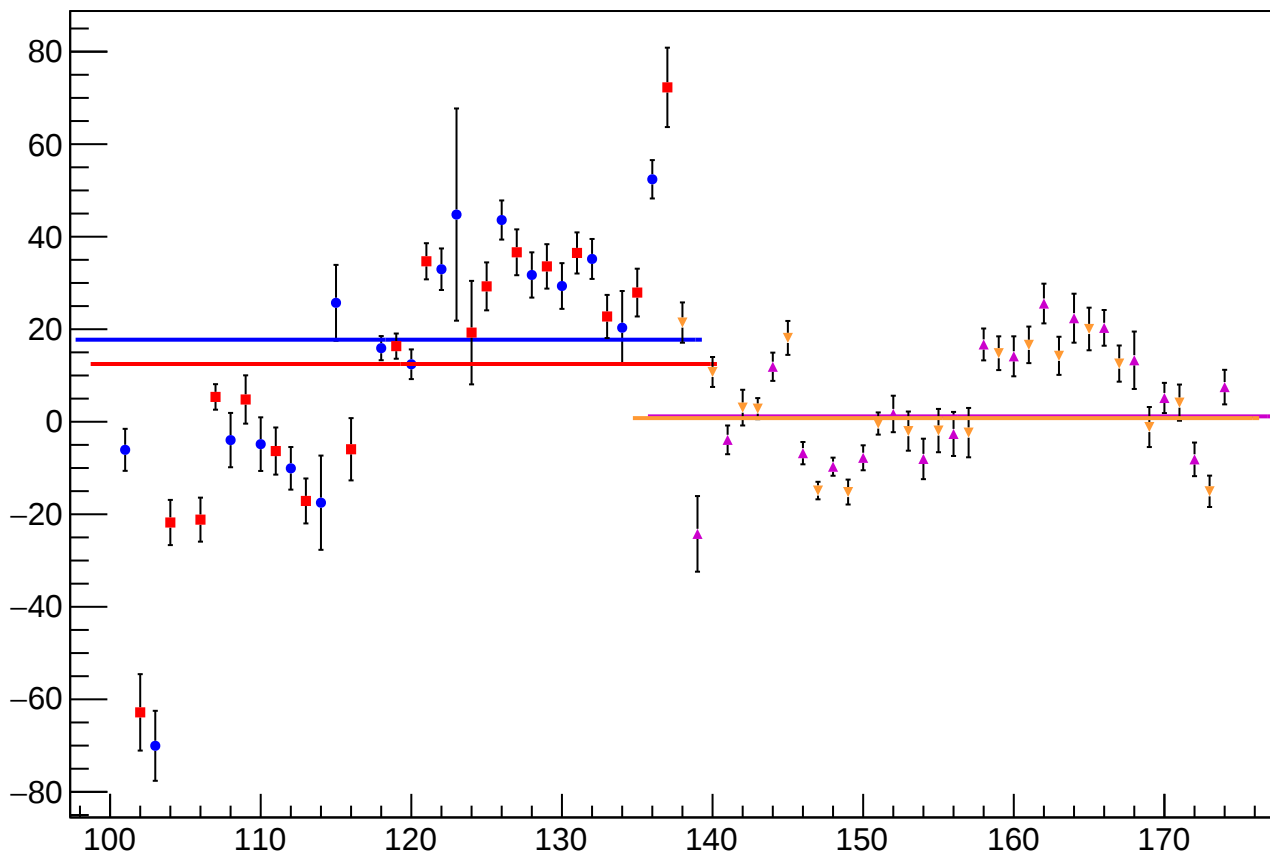
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 216.597+/-1.141  $\chi^2/\text{NDF}$ :710.0/17

Out: 205.533+/-1.104  $\chi^2/\text{NDF}$ :1630.2/18

All: 210.885+/-0.793  $\chi^2/\text{NDF}$ : 2388.7/36

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $17.737 \pm 1.149$   $\chi^2/\text{NDF}: 394.0/16$

Left Out:  $0.785 \pm 0.761$   $\chi^2/\text{NDF}: 251.2/18$

Right Out:  $12.484 \pm 1.085$   $\chi^2/\text{NDF}: 429.2/17$

Left In:  $1.164 \pm 0.811$   $\chi^2/\text{NDF}: 199.5/17$

Left:  $0.962 \pm 0.555$   $\chi^2/\text{NDF}: 450.9/36$

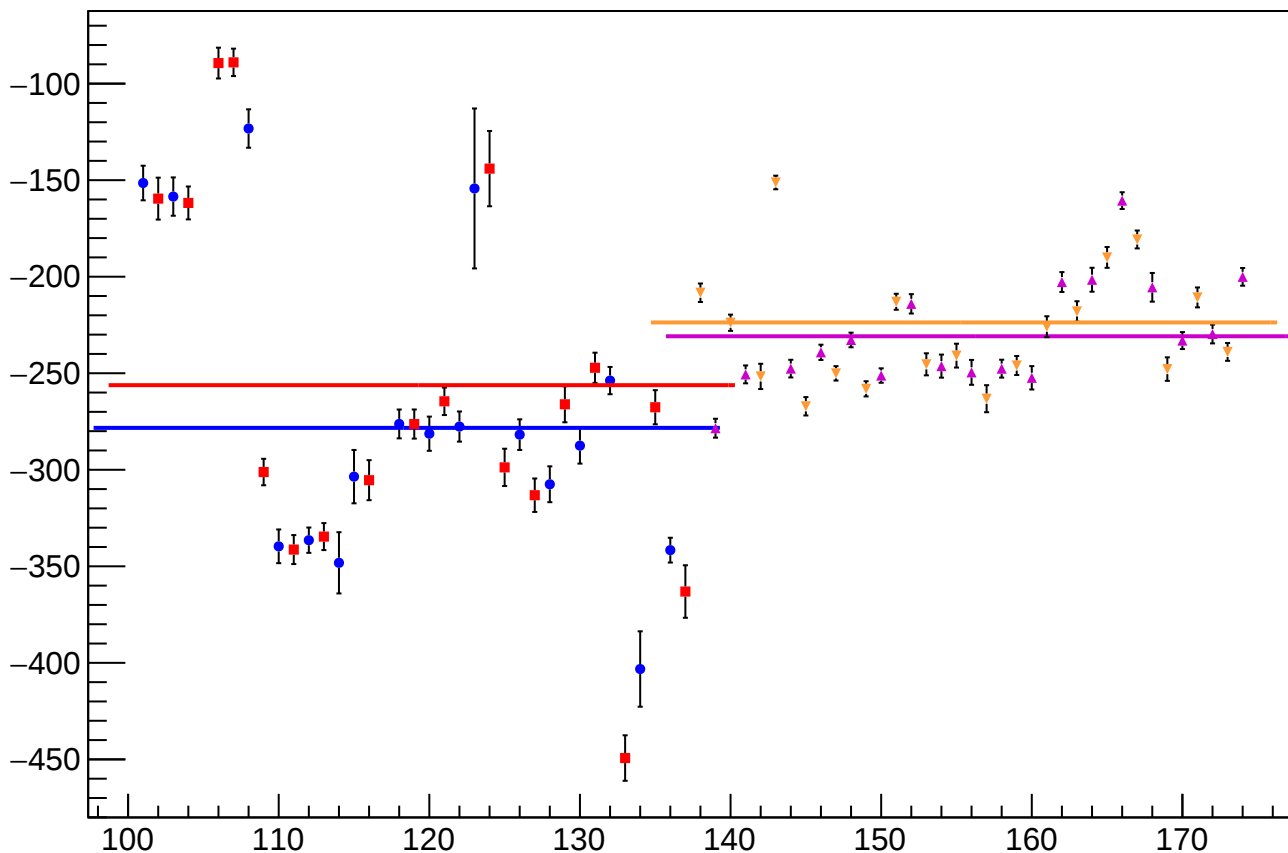
Right:  $14.961 \pm 0.789$   $\chi^2/\text{NDF}: 834.2/34$

In:  $6.682 \pm 0.663$   $\chi^2/\text{NDF}: 732.4/34$

Out:  $4.643 \pm 0.623$   $\chi^2/\text{NDF}: 758.3/36$

All:  $5.600 \pm 0.454$   $\chi^2/\text{NDF}: 1495.7/71$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -278.294+/-2.172  $\chi^2/\text{NDF}$ : 910.0/16

Left Out: -223.696+/-1.102  $\chi^2/\text{NDF}$ : 901.2/18

Right Out: -256.177+/-2.025  $\chi^2/\text{NDF}$ : 1952.2/17

Left In: -230.853+/-1.130  $\chi^2/\text{NDF}$ : 583.3/17

Left: -227.185+/-0.789  $\chi^2/\text{NDF}$ : 1505.1/36

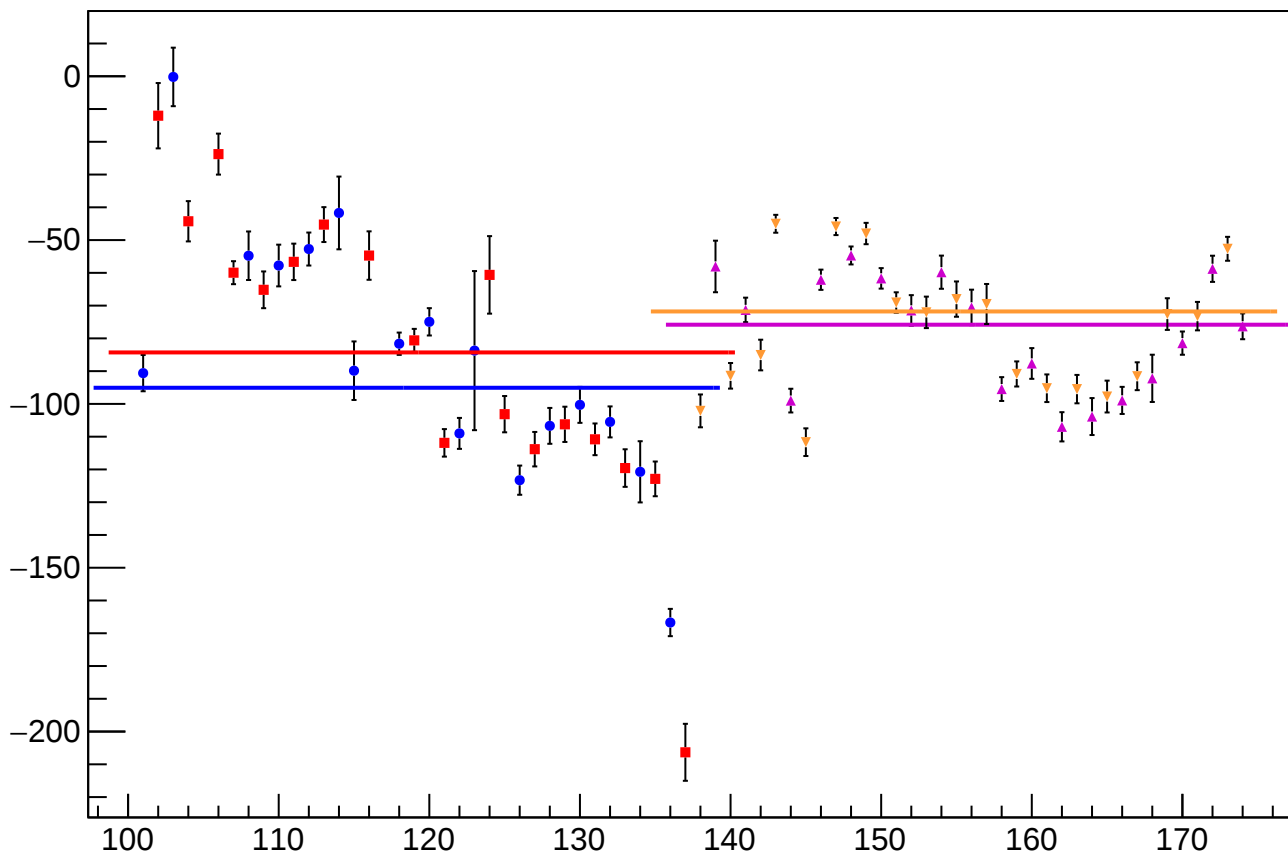
Right: -266.460+/-1.481  $\chi^2/\text{NDF}$ : 2917.6/34

In: -240.953+/-1.002  $\chi^2/\text{NDF}$ : 1868.7/34

Out: -231.116+/-0.968  $\chi^2/\text{NDF}$ : 3052.0/36

All: -235.862+/-0.696  $\chi^2/\text{NDF}$ : 4970.6/71

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:  $-71.782 \pm 0.900$   $\chi^2/\text{NDF}$ : 571.9/18

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

Left In:  $-75.829 \pm 0.949$   $\chi^2/\text{NDF}$ : 325.3/17

Left:  $-73.698 \pm 0.653$   $\chi^2/\text{NDF}$ : 906.8/36

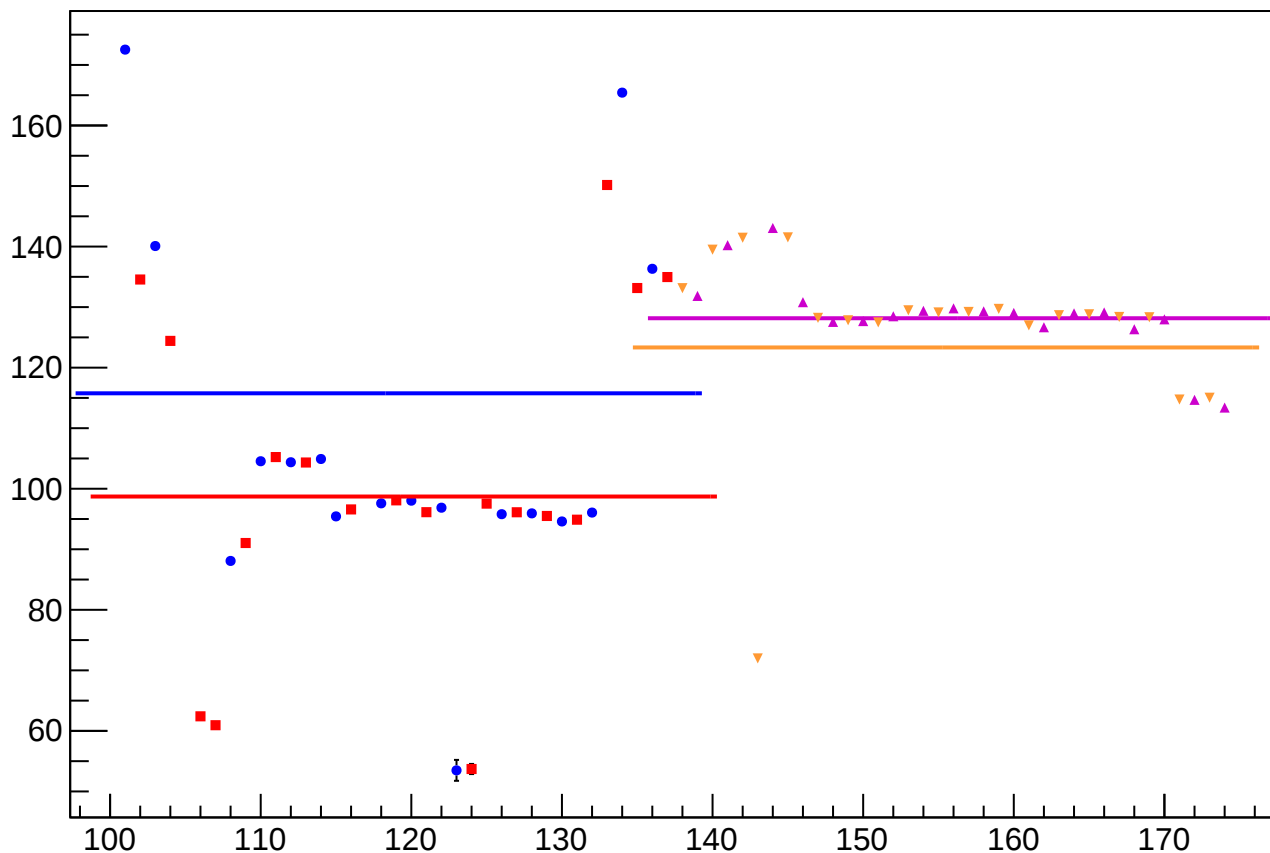
Right:  $-89.402 \pm 0.913$   $\chi^2/\text{NDF}$ : 1476.8/34

In:  $-82.350 \pm 0.772$   $\chi^2/\text{NDF}$ : 1137.9/34

Out:  $-76.013 \pm 0.732$   $\chi^2/\text{NDF}$ : 1406.1/36

All:  $-79.014 \pm 0.531$   $\chi^2/\text{NDF}$ : 2579.5/71

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: 123.336 $\pm$ 0.044  $\chi^2$ /NDF:168652.4/18

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

Left In: 128.162 $\pm$ 0.044  $\chi^2$ /NDF:24560.2/17

Left: 125.708 $\pm$ 0.031  $\chi^2$ /NDF: 199209.5/36

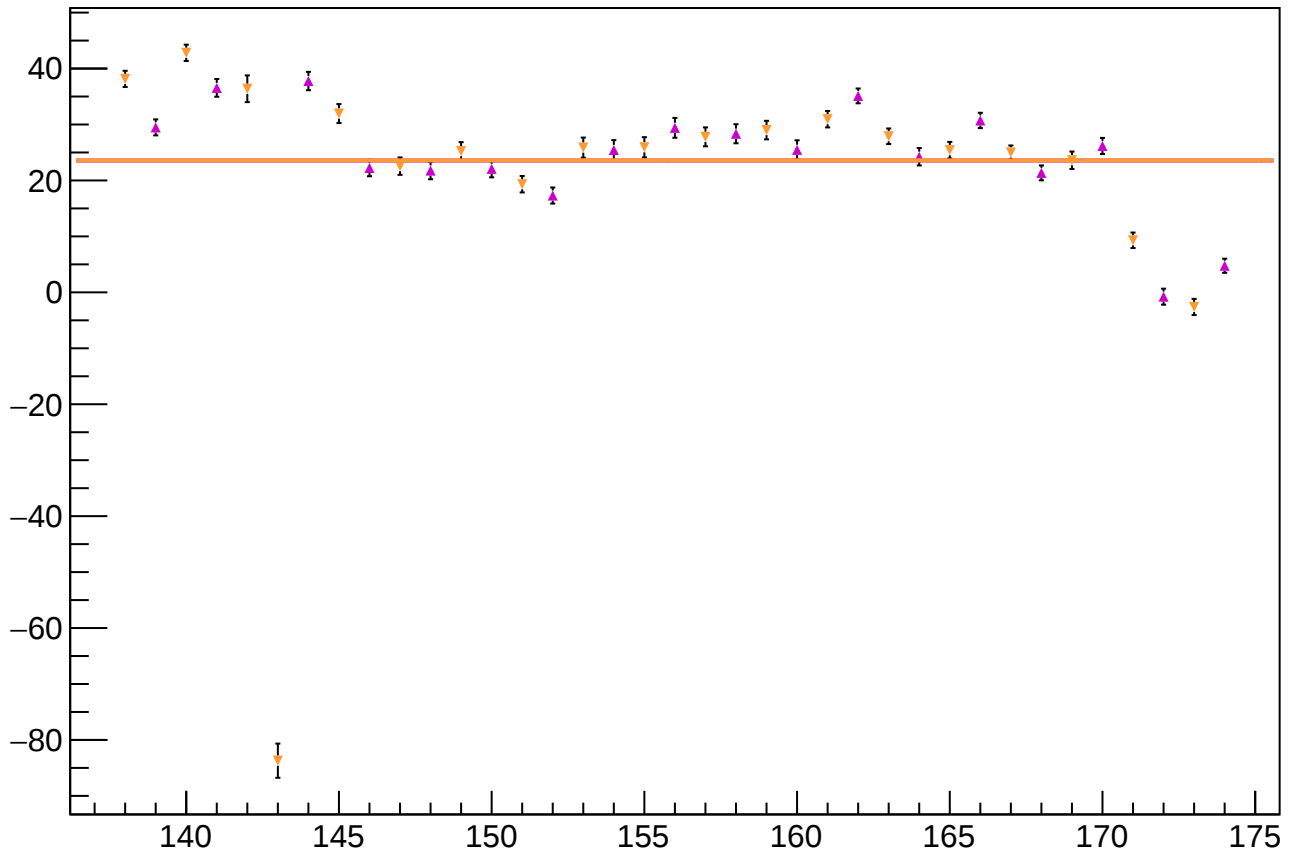
Right: 106.153 $\pm$ 0.052  $\chi^2$ /NDF: 303349.7/34

In: 125.129 $\pm$ 0.039  $\chi^2$ /NDF:149903.8/34

Out: 116.249 $\pm$ 0.037  $\chi^2$ /NDF:430295.9/36

All: 120.483 $\pm$ 0.027  $\chi^2$ /NDF: 607867.8/71

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: 23.594+/-0.362  $\chi^2/\text{NDF}$ :2062.4/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 23.558+/-0.352  $\chi^2/\text{NDF}$ :824.4/17

Left: 23.575+/-0.252  $\chi^2/\text{NDF}$ : 2886.9/36

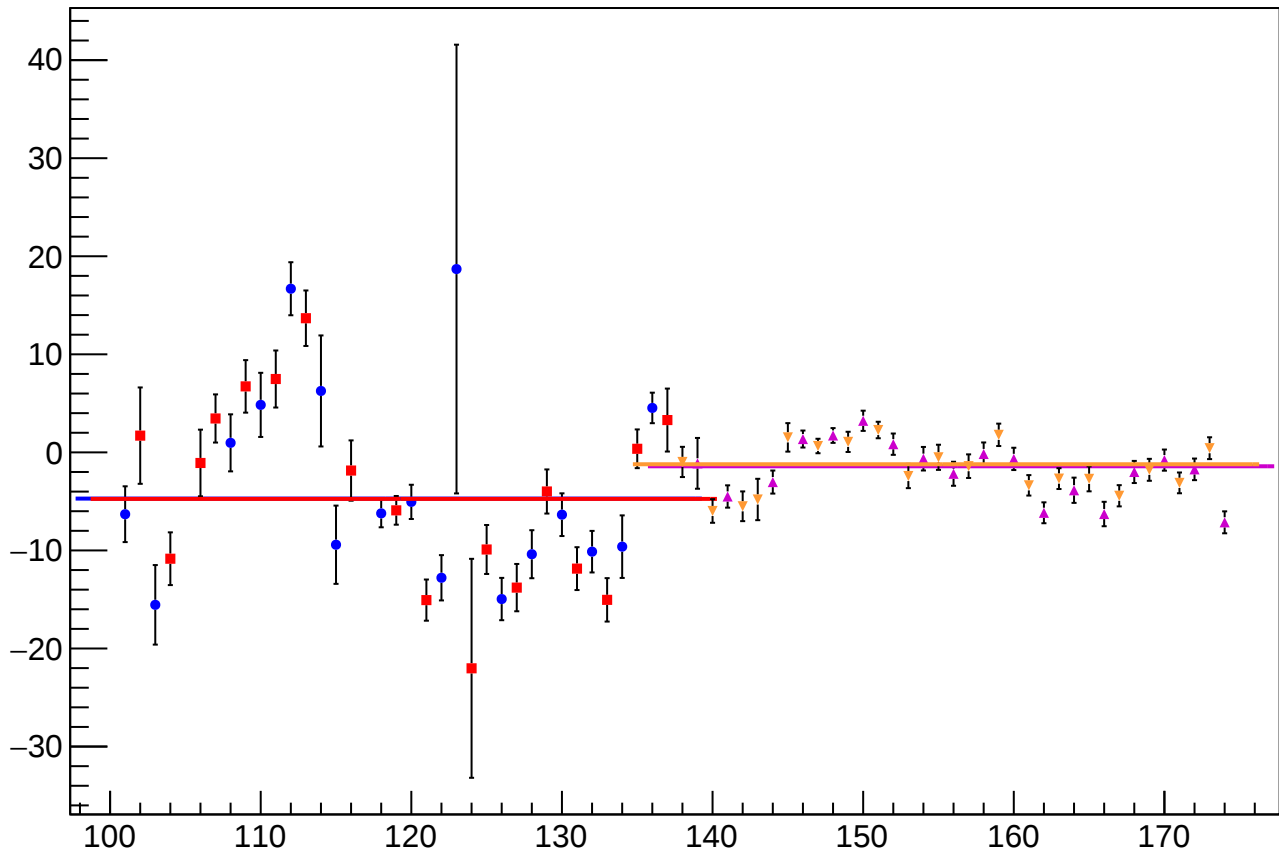
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.558+/-0.352  $\chi^2/\text{NDF}$ :824.4/17

Out: 23.594+/-0.362  $\chi^2/\text{NDF}$ :2062.4/18

All: 23.575+/-0.252  $\chi^2/\text{NDF}$ : 2886.9/36

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:  $-1.211 \pm 0.259$   $\chi^2/\text{NDF}: 88.8/18$

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}: 189.3/17$

Left In:  $-1.418 \pm 0.260$   $\chi^2/\text{NDF}: 129.2/17$

Left:  $-1.314 \pm 0.183$   $\chi^2/\text{NDF}: 218.4/36$

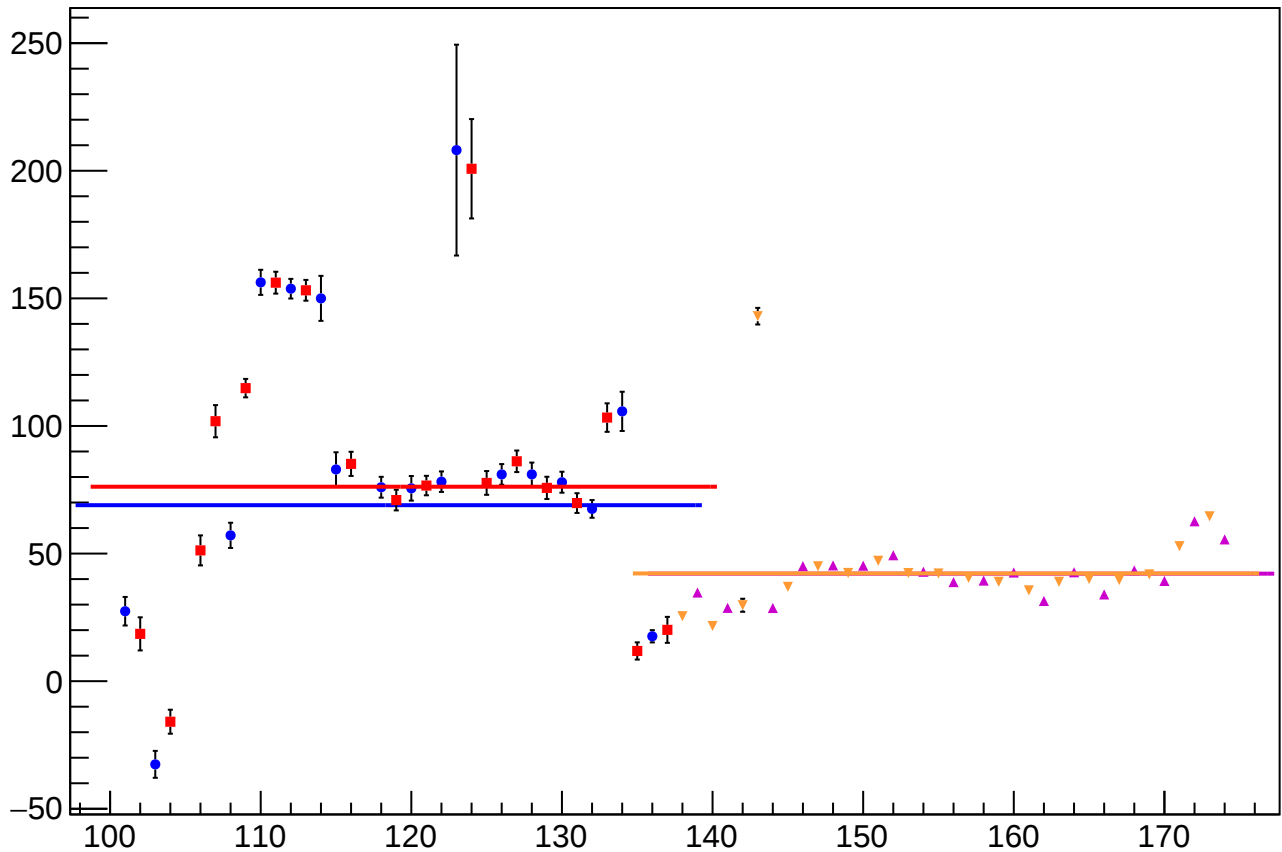
Right:  $-4.729 \pm 0.412$   $\chi^2/\text{NDF}: 364.0/34$

In:  $-1.969 \pm 0.237$   $\chi^2/\text{NDF}: 330.7/34$

Out:  $-1.789 \pm 0.237$   $\chi^2/\text{NDF}: 308.6/36$

All:  $-1.879 \pm 0.168$   $\chi^2/\text{NDF}: 639.6/71$

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $68.960 \pm 1.079$   $\chi^2/\text{NDF}$ : 1844.0/16

Left Out:  $42.217 \pm 0.357$   $\chi^2/\text{NDF}$ : 1613.8/18

Right Out:  $76.199 \pm 1.071$   $\chi^2/\text{NDF}$ : 1881.0/17

Left In:  $42.127 \pm 0.349$   $\chi^2/\text{NDF}$ : 596.4/17

Left:  $42.171 \pm 0.249$   $\chi^2/\text{NDF}$ : 2210.3/36

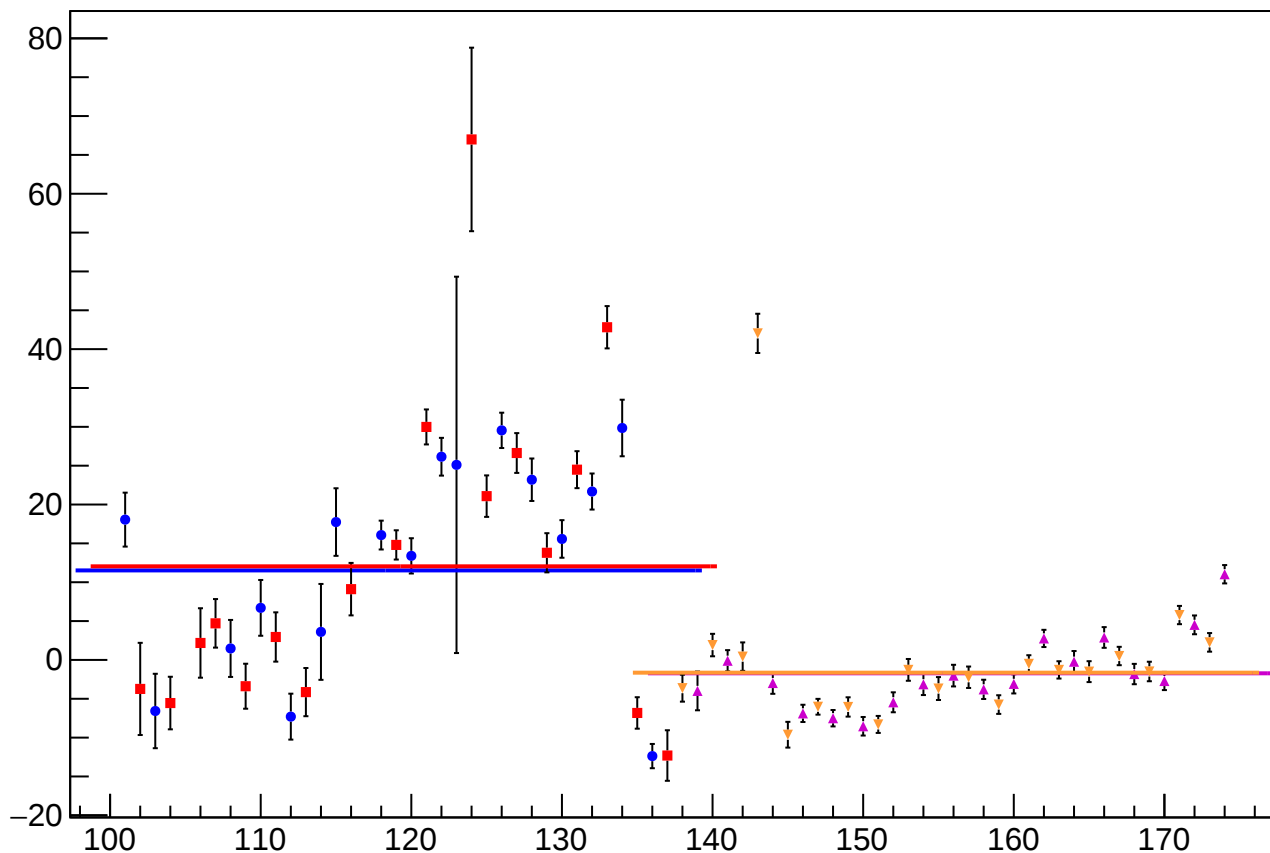
Right:  $72.606 \pm 0.760$   $\chi^2/\text{NDF}$ : 3747.6/34

In:  $44.664 \pm 0.332$   $\chi^2/\text{NDF}$ : 3000.5/34

Out:  $45.615 \pm 0.339$   $\chi^2/\text{NDF}$ : 4400.9/36

All:  $45.130 \pm 0.237$   $\chi^2/\text{NDF}$ : 7405.4/71

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.521 $\pm$ 0.660  $\chi^2$ /NDF: 477.2/16

Left Out: -1.640 $\pm$ 0.299  $\chi^2$ /NDF: 468.0/18

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

Left In: -1.722 $\pm$ 0.299  $\chi^2$ /NDF: 274.4/17

Left: -1.681 $\pm$ 0.211  $\chi^2$ /NDF: 742.4/36

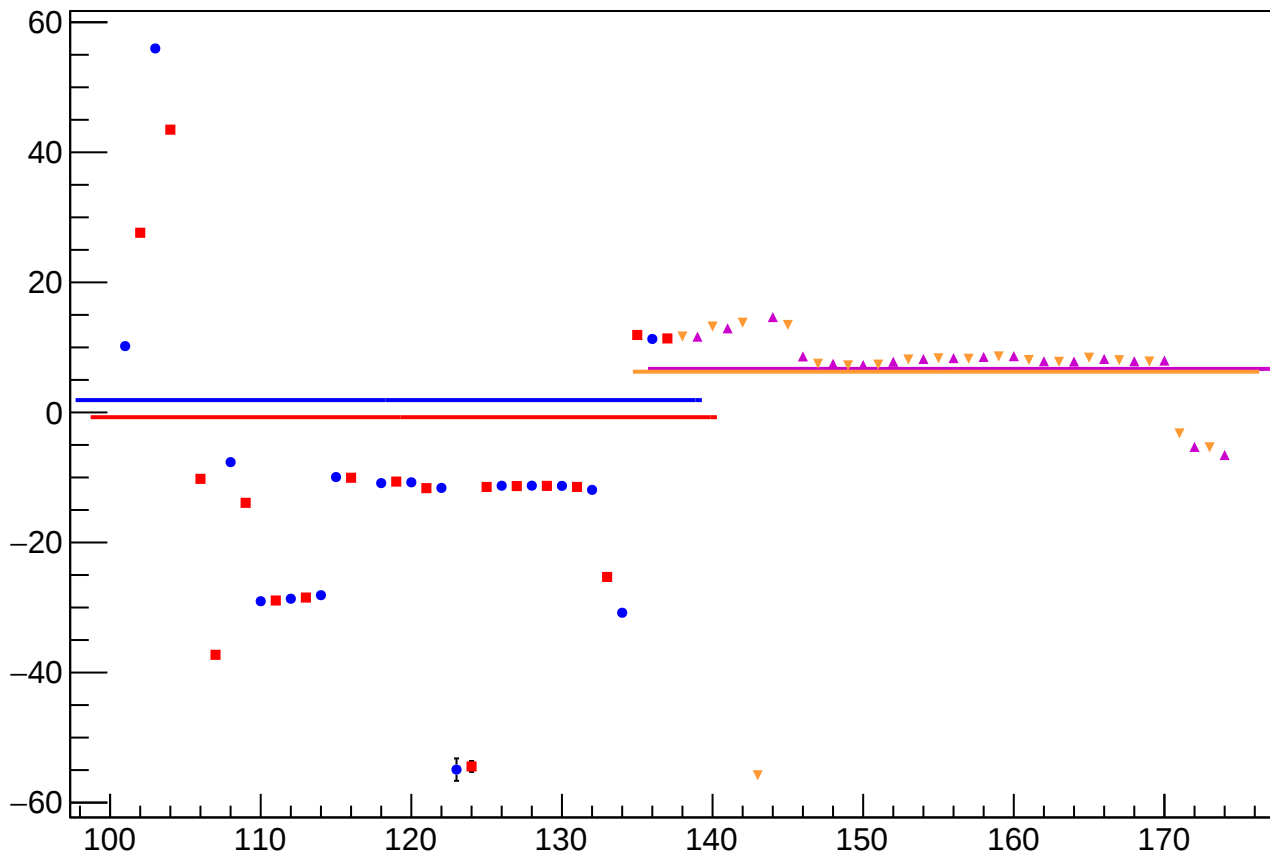
Right: 11.782 $\pm$ 0.468  $\chi^2$ /NDF: 1016.2/34

In: 0.531 $\pm$ 0.272  $\chi^2$ /NDF: 1085.9/34

Out: 0.660 $\pm$ 0.272  $\chi^2$ /NDF: 1359.6/36

All: 0.596 $\pm$ 0.193  $\chi^2$ /NDF: 2445.6/71

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.896+/-0.037  $\chi^2/\text{NDF}$ : 358855.7/16

Left Out: 6.268+/-0.014  $\chi^2/\text{NDF}$ : 352949.0/18

Right Out: -0.733+/-0.037  $\chi^2/\text{NDF}$ : 359934.4/17

Left In: 6.697+/-0.013  $\chi^2/\text{NDF}$ : 159132.1/17

Left: 6.488+/-0.010  $\chi^2/\text{NDF}$ : 512573.8/36

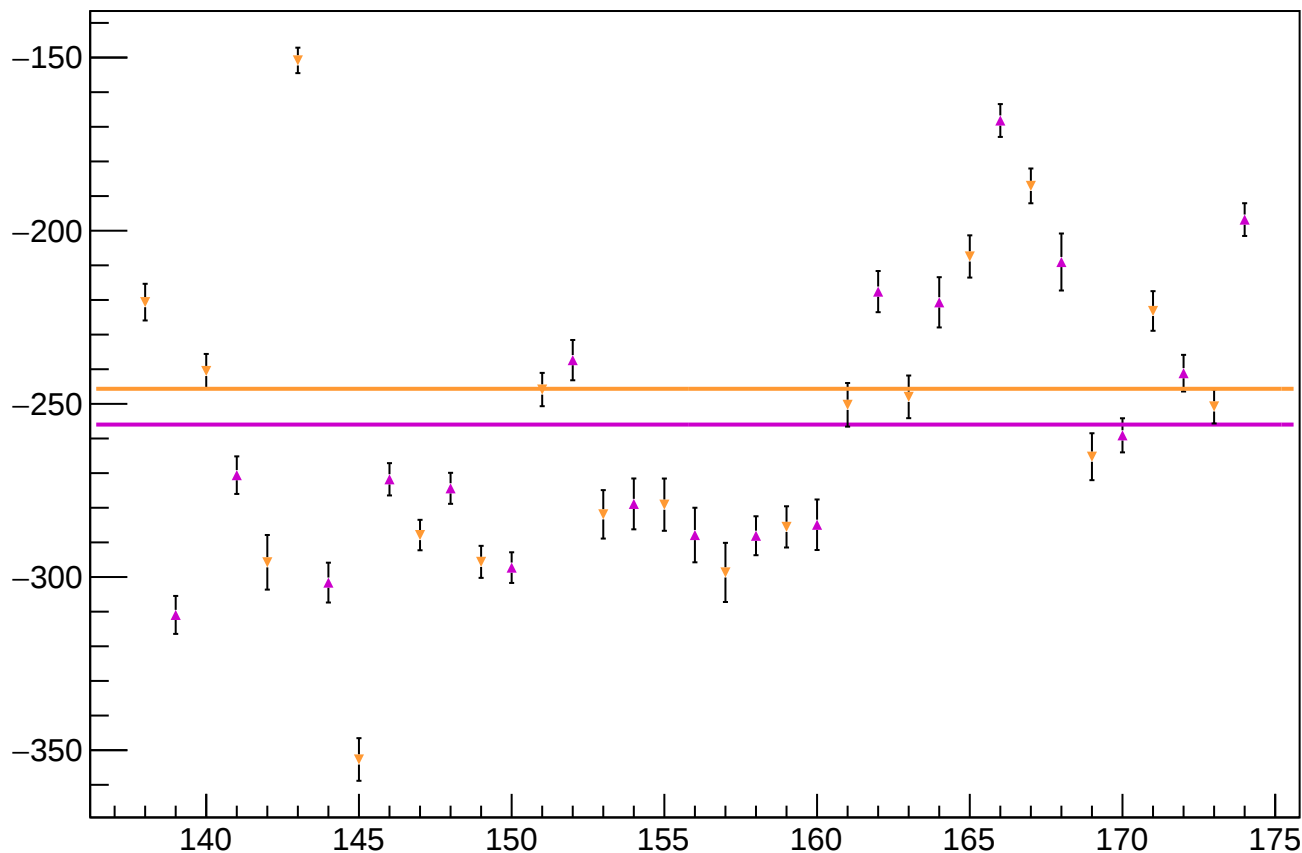
Right: 0.584+/-0.026  $\chi^2/\text{NDF}$ : 721303.3/34

In: 6.134+/-0.013  $\chi^2/\text{NDF}$ : 532816.3/34

Out: 5.416+/-0.013  $\chi^2/\text{NDF}$ : 744135.5/36

All: 5.783+/-0.009  $\chi^2/\text{NDF}$ : 1278523.5/71

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-245.647 \pm 1.263$   $\chi^2/\text{NDF}$ : 1571.5/18

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-255.979 \pm 1.305$   $\chi^2/\text{NDF}$ : 976.4/17

Left:  $-250.644 \pm 0.908$   $\chi^2/\text{NDF}$ : 2580.3/36

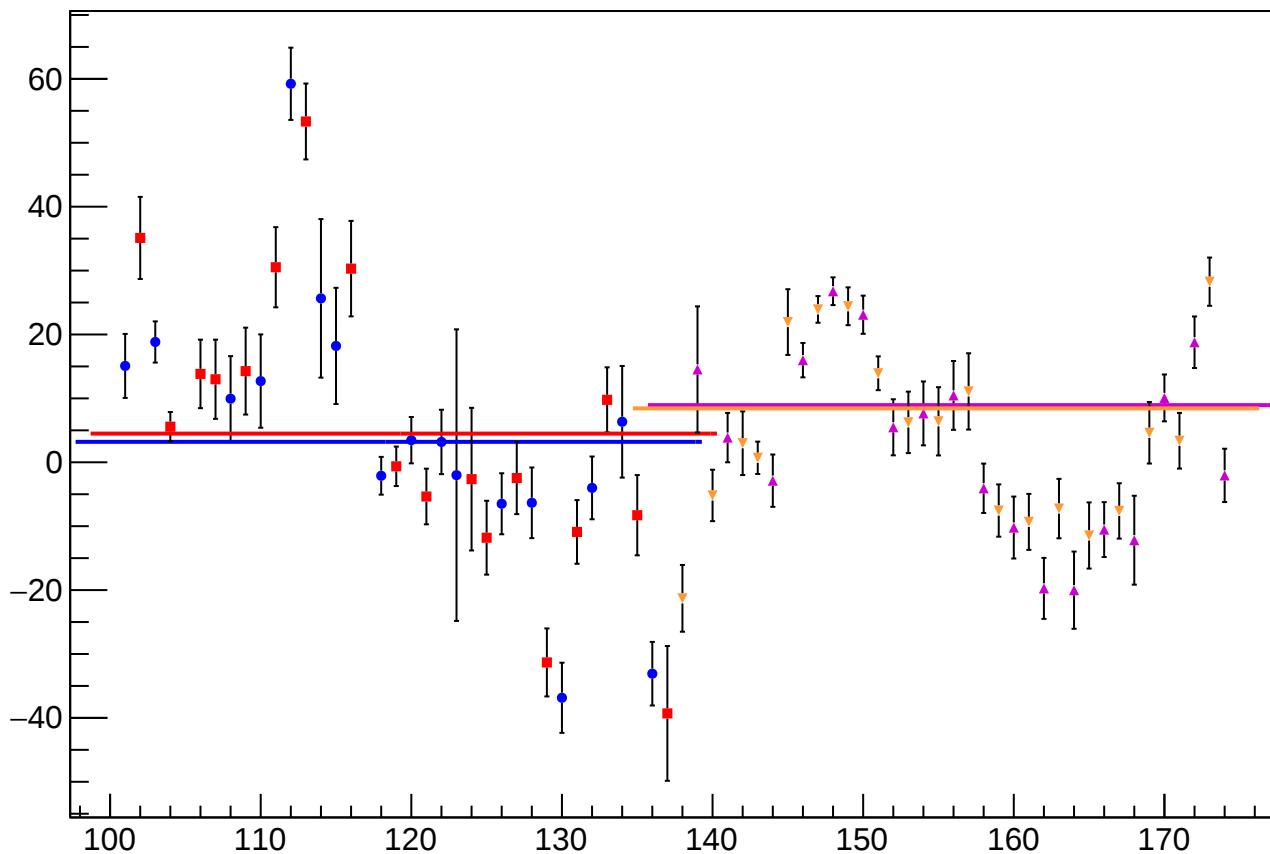
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-255.979 \pm 1.305$   $\chi^2/\text{NDF}$ : 976.4/17

Out:  $-245.647 \pm 1.263$   $\chi^2/\text{NDF}$ : 1571.5/18

All:  $-250.644 \pm 0.908$   $\chi^2/\text{NDF}$ : 2580.3/36

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.200+/-1.227  $\chi^2/\text{NDF}$ : 255.2/16

Left Out: 8.436+/-0.863  $\chi^2/\text{NDF}$ :251.7/18

Right Out: 4.489+/-1.159  $\chi^2/\text{NDF}$ : 221.8/17

Left In: 8.944+/-0.923  $\chi^2/\text{NDF}$ :236.7/17

Left: 8.673+/-0.630  $\chi^2/\text{NDF}$ : 488.6/36

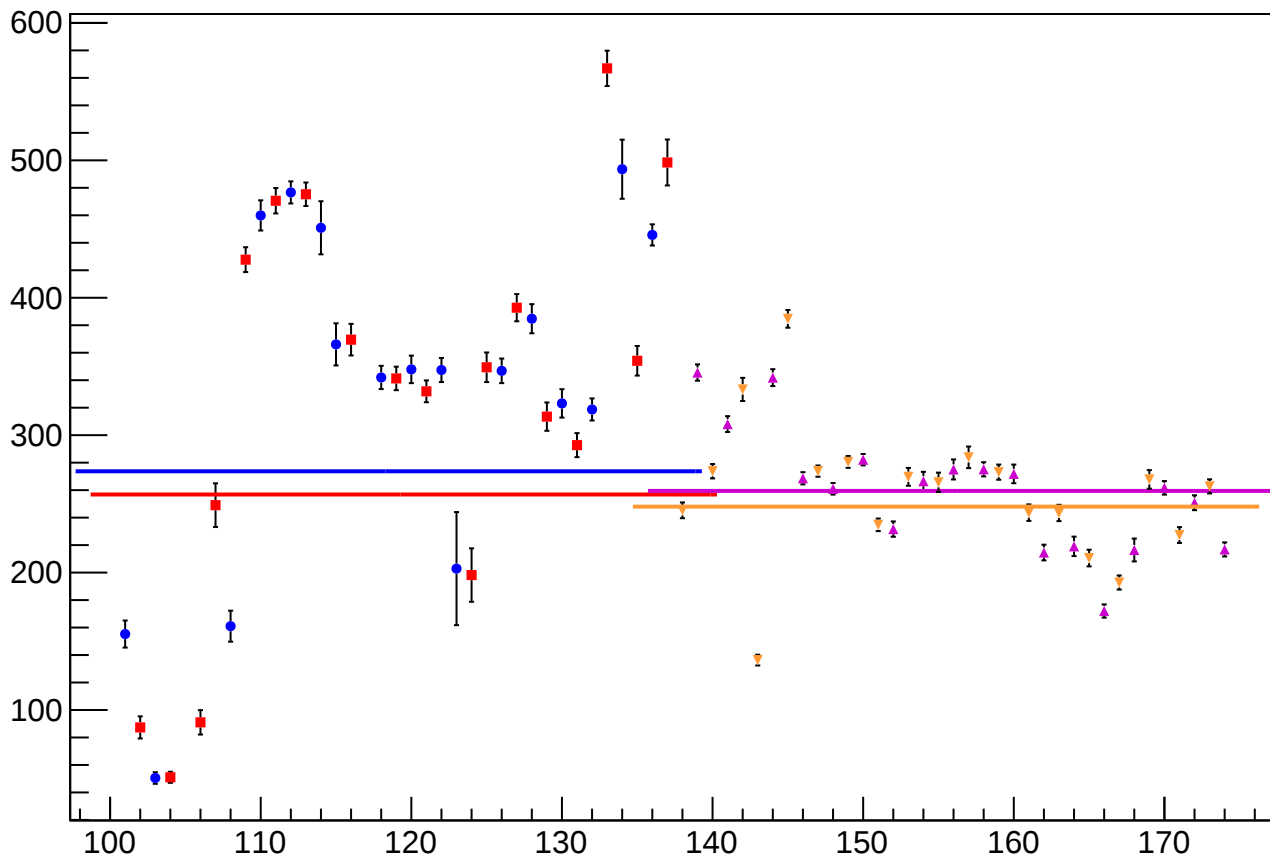
Right: 3.881+/-0.843  $\chi^2/\text{NDF}$ : 477.5/34

In: 6.870+/-0.737  $\chi^2/\text{NDF}$ :505.9/34

Out: 7.027+/-0.692  $\chi^2/\text{NDF}$ :480.9/36

All: 6.953+/-0.505  $\chi^2/\text{NDF}$ : 986.8/71

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Left: 253.568 ± 0.899  $\chi^2/\text{NDF}$ : 2832.8/36

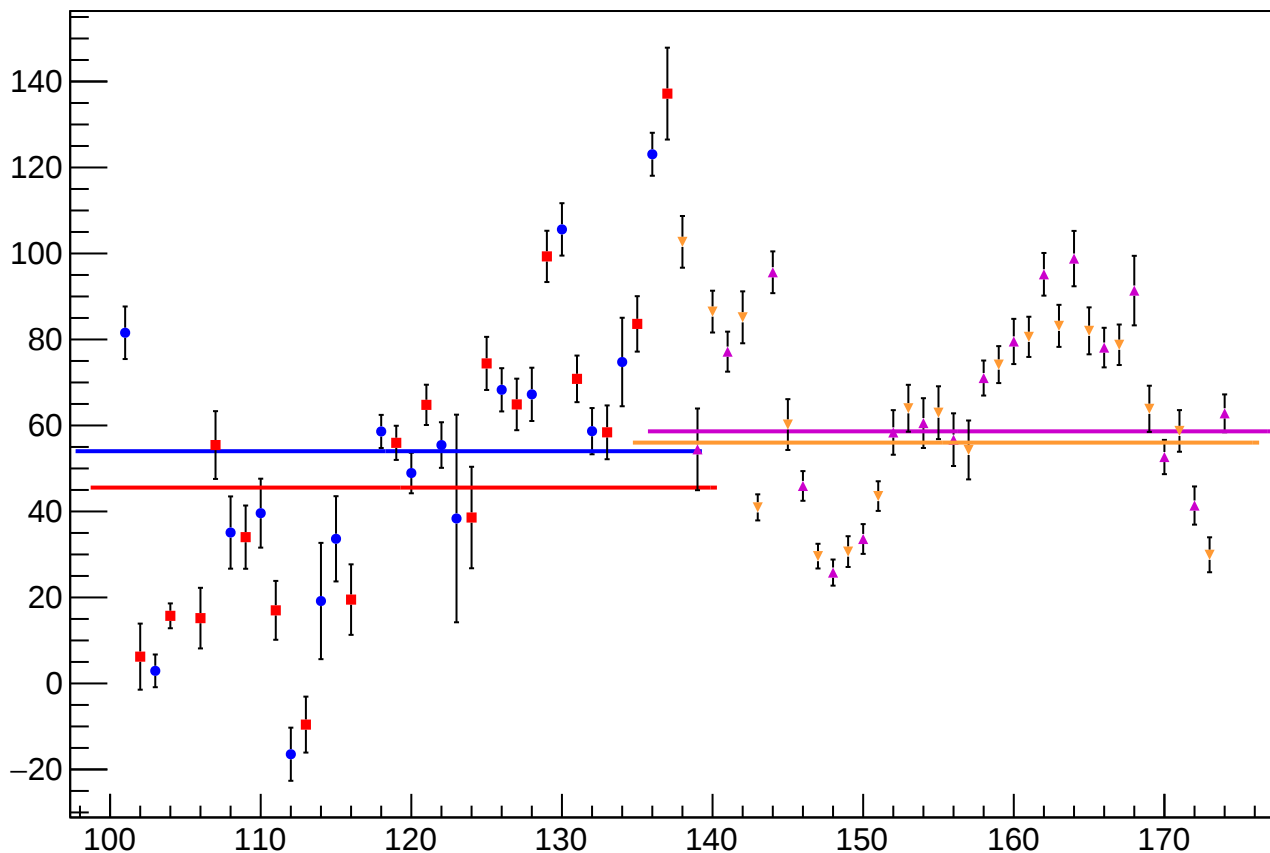
Right: 264.834 ± 1.511  $\chi^2/\text{NDF}$ : 11546.2/34

In: 263.094 ± 1.111  $\chi^2/\text{NDF}$ : 6193.2/34

Out: 250.347 ± 1.075  $\chi^2/\text{NDF}$ : 8158.9/36

All: 256.514 ± 0.773  $\chi^2/\text{NDF}$ : 14420.1/71

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: 56.013 $\pm$ 1.022  $\chi^2$ /NDF:465.2/18

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

Left In: 58.632 $\pm$ 1.079  $\chi^2$ /NDF:427.9/17

Left: 57.250 $\pm$ 0.742  $\chi^2$ /NDF: 896.1/36

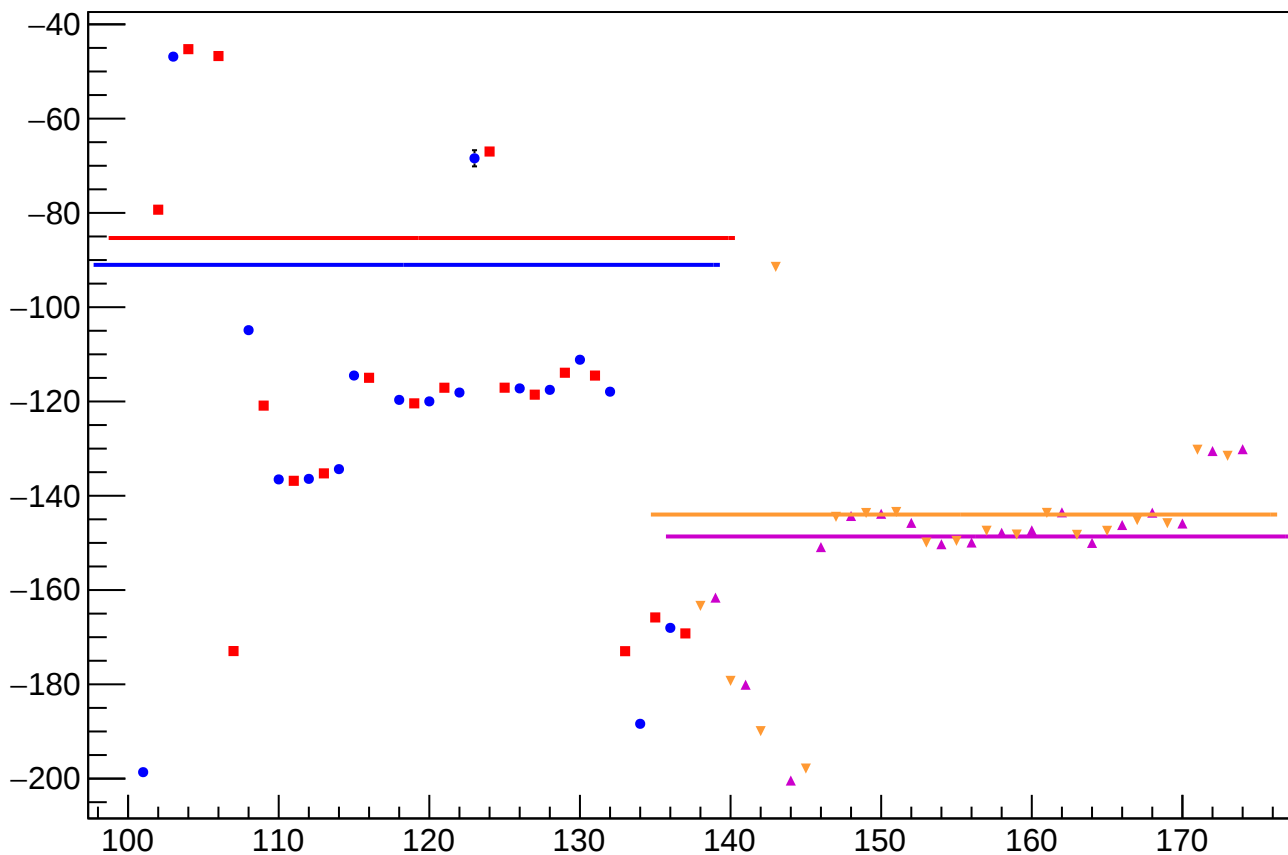
Right: 49.587 $\pm$ 0.983  $\chi^2$ /NDF: 1178.0/34

In: 56.946 $\pm$ 0.860  $\chi^2$ /NDF:1067.4/34

Out: 52.233 $\pm$ 0.817  $\chi^2$ /NDF:1029.7/36

All: 54.467 $\pm$ 0.592  $\chi^2$ /NDF: 2112.9/71

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:  $-143.983 \pm 0.050$   $\chi^2/\text{NDF}: 216134.9/18$

Right Out:  $-85.325 \pm 0.065$   $\chi^2/\text{NDF}: 483106.3/17$

Left In:  $-148.638 \pm 0.051$   $\chi^2/\text{NDF}: 80498.3/17$

Left:  $-146.272 \pm 0.035$   $\chi^2/\text{NDF}: 300931.2/36$

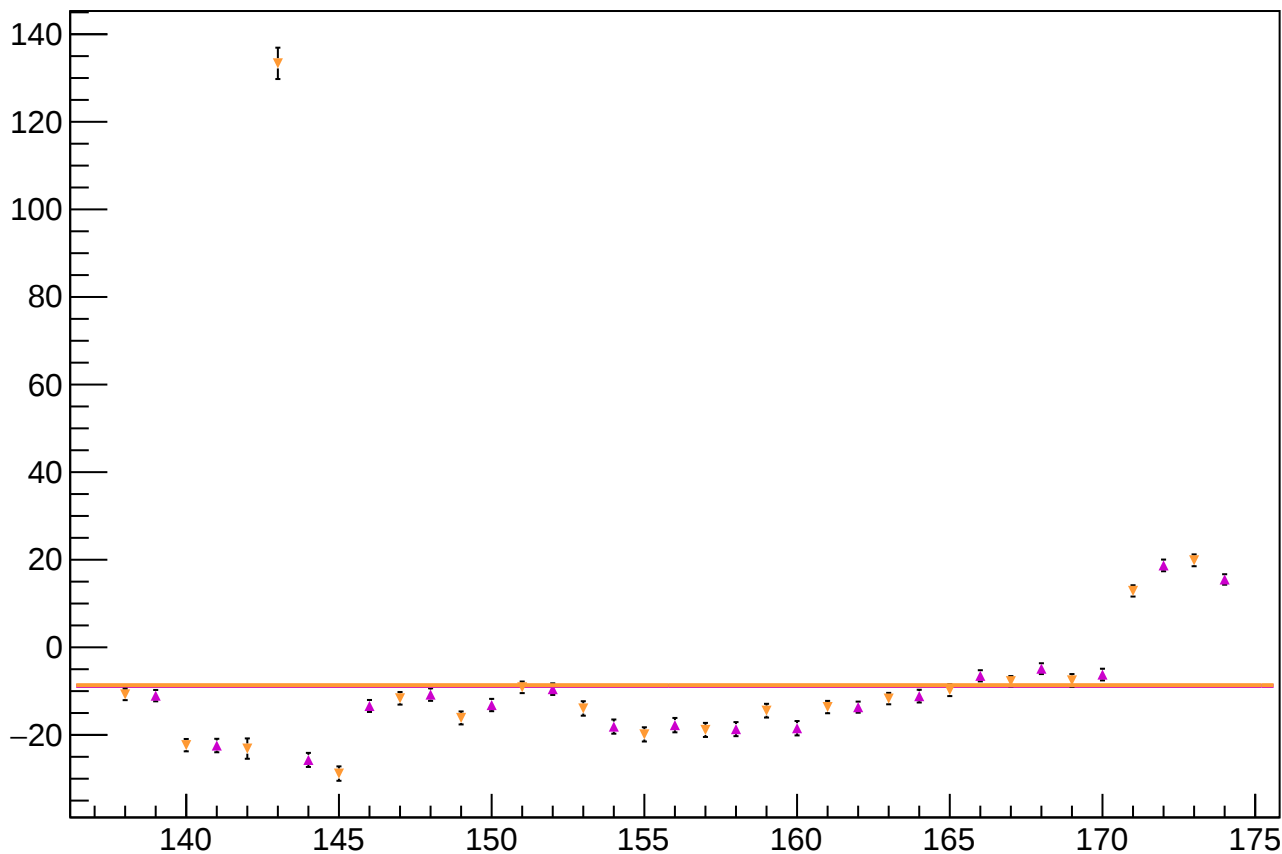
Right:  $-88.069 \pm 0.047$   $\chi^2/\text{NDF}: 1021045.4/34$

In:  $-127.929 \pm 0.041$   $\chi^2/\text{NDF}: 1080352.8/34$

Out:  $-122.363 \pm 0.040$   $\chi^2/\text{NDF}: 1210898.4/36$

All:  $-125.079 \pm 0.028$   $\chi^2/\text{NDF}: 2300914.6/71$

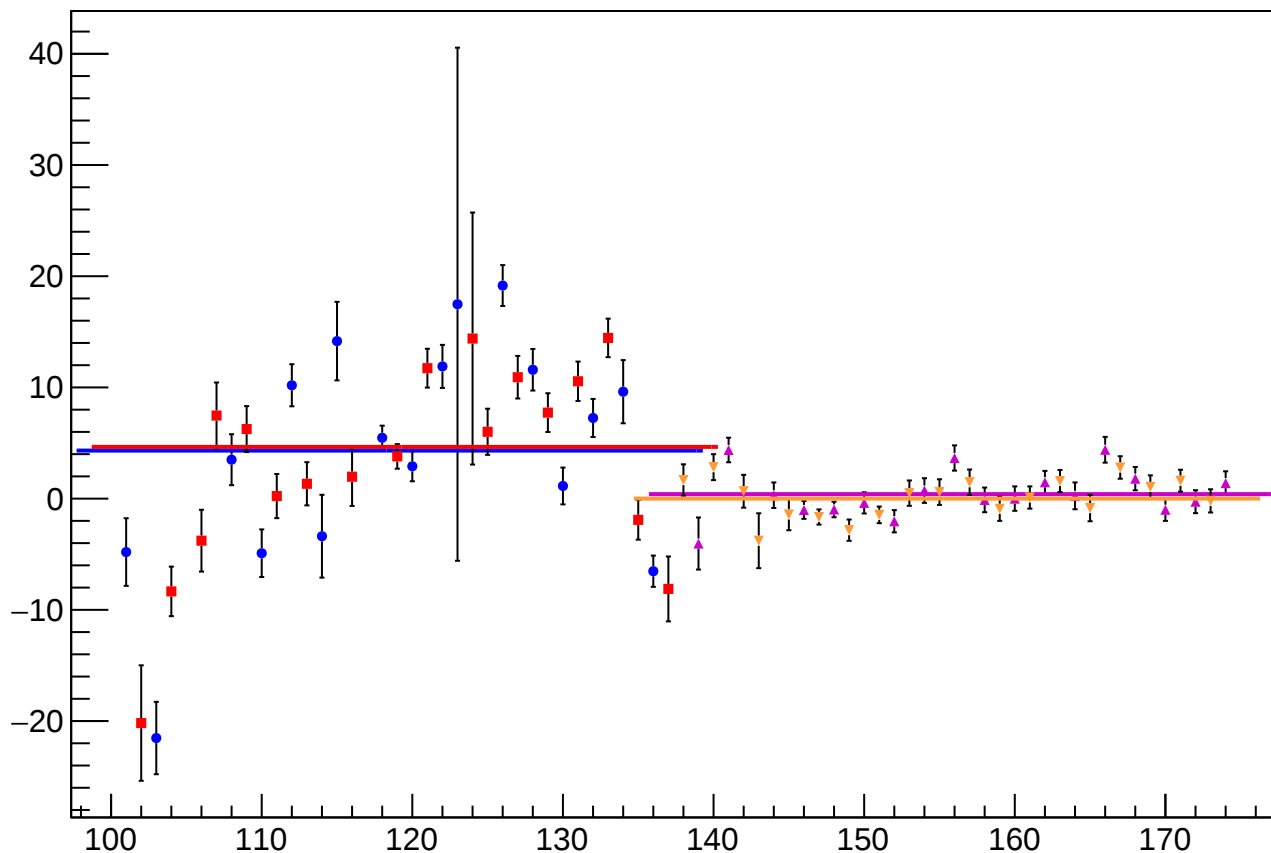
reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -8.647+/-0.339  $\chi^2/\text{NDF}$ :2741.5/18  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.822+/-0.330  $\chi^2/\text{NDF}$ :1222.4/17

Left: -8.737+/-0.236  $\chi^2/\text{NDF}$ : 3964.1/36  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.822+/-0.330  $\chi^2/\text{NDF}$ :1222.4/17  
 Out: -8.647+/-0.339  $\chi^2/\text{NDF}$ :2741.5/18  
 All: -8.737+/-0.236  $\chi^2/\text{NDF}$ : 3964.1/36

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:  $0.004 \pm 0.242$   $\chi^2/\text{NDF}$ : 46.6/18

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.4/17

Left In:  $0.406 \pm 0.244$   $\chi^2/\text{NDF}$ : 56.8/17

Left:  $0.203 \pm 0.172$   $\chi^2/\text{NDF}$ : 104.8/36

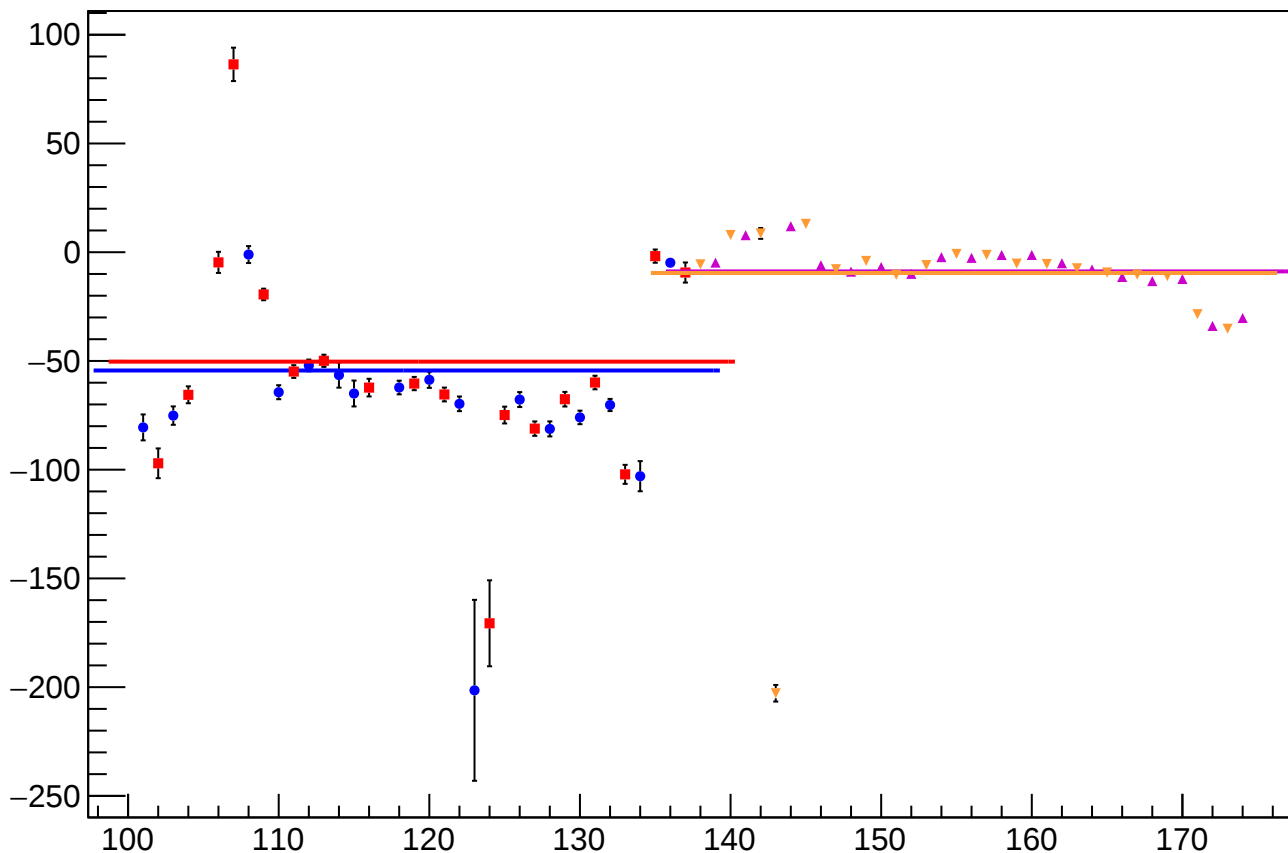
Right:  $4.484 \pm 0.332$   $\chi^2/\text{NDF}$ : 465.0/34

In:  $1.249 \pm 0.216$   $\chi^2/\text{NDF}$ : 392.7/34

Out:  $0.965 \pm 0.215$   $\chi^2/\text{NDF}$ : 307.3/36

All:  $1.106 \pm 0.153$   $\chi^2/\text{NDF}$ : 700.9/71

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:  $-9.551 \pm 0.334$   $\chi^2/\text{NDF}: 3583.5/18$

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}: 1319.3/17$

Left In:  $-8.819 \pm 0.326$   $\chi^2/\text{NDF}: 995.7/17$

Left:  $-9.176 \pm 0.233$   $\chi^2/\text{NDF}: 4581.7/36$

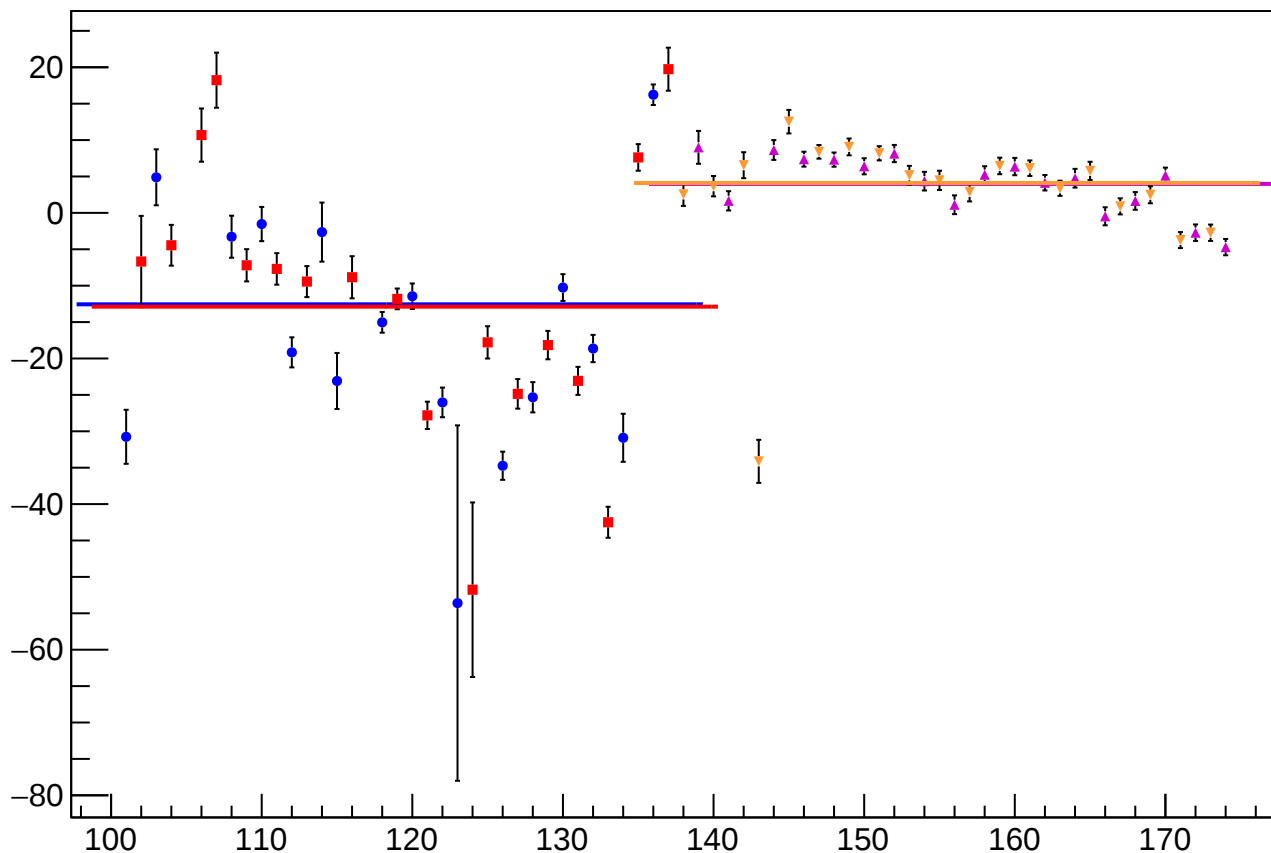
Right:  $-52.337 \pm 0.609$   $\chi^2/\text{NDF}: 2344.4/34$

In:  $-14.497 \pm 0.305$   $\chi^2/\text{NDF}: 4442.0/34$

Out:  $-14.911 \pm 0.311$   $\chi^2/\text{NDF}: 6862.0/36$

All:  $-14.700 \pm 0.218$   $\chi^2/\text{NDF}: 11304.8/71$

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:  $4.106 \pm 0.280$   $\chi^2/\text{NDF}$ : 364.4/18

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

Left In:  $3.979 \pm 0.280$   $\chi^2/\text{NDF}$ : 183.0/17

Left:  $4.043 \pm 0.198$   $\chi^2/\text{NDF}$ : 547.5/36

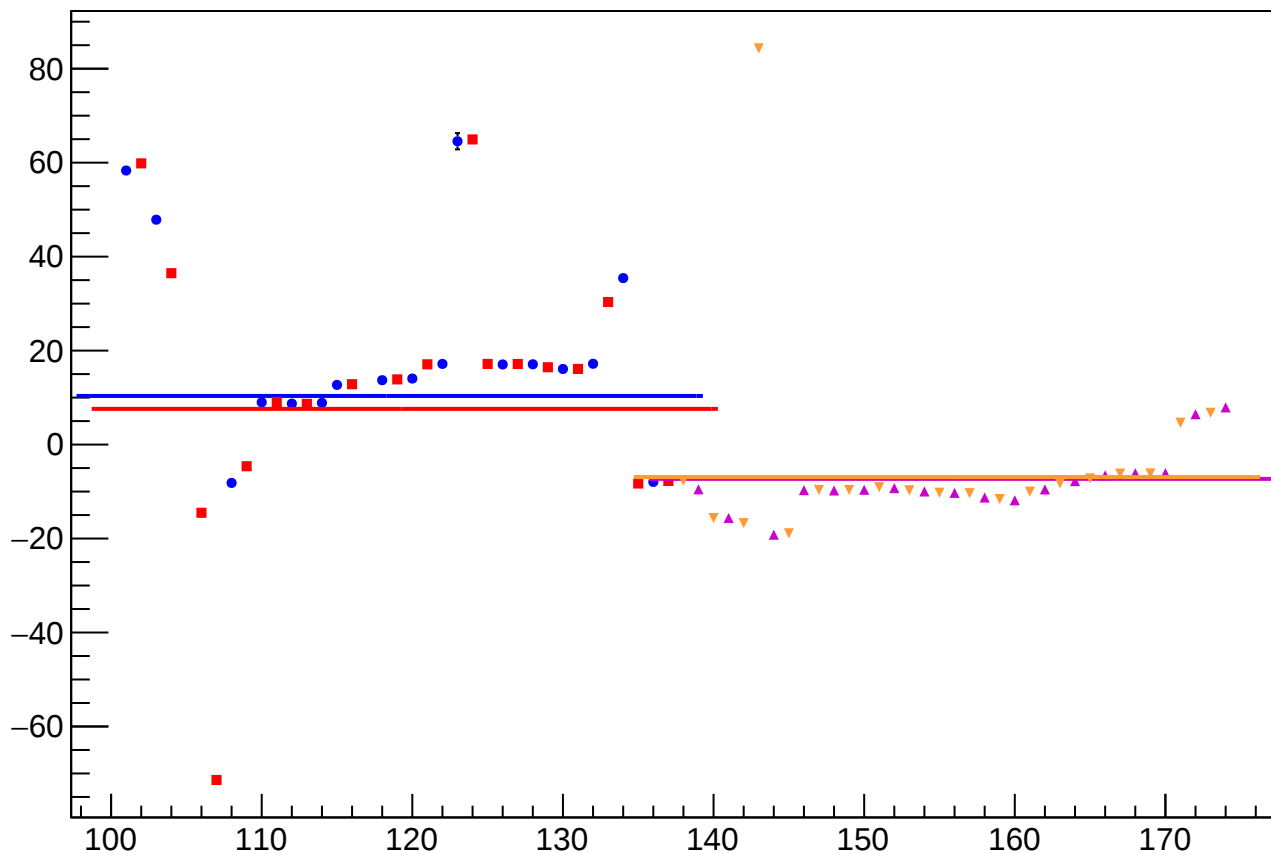
Right:  $-12.719 \pm 0.378$   $\chi^2/\text{NDF}$ : 1506.3/34

In:  $0.383 \pm 0.248$   $\chi^2/\text{NDF}$ : 1720.5/34

Out:  $0.497 \pm 0.248$   $\chi^2/\text{NDF}$ : 1875.4/36

All:  $0.440 \pm 0.175$   $\chi^2/\text{NDF}$ : 3596.0/71

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:  $-6.913 \pm 0.013$   $\chi^2/\text{NDF}: 576869.8/18$

Right Out:  $7.602 \pm 0.031$   $\chi^2/\text{NDF}: 538460.3/17$

Left In:  $-7.297 \pm 0.013$   $\chi^2/\text{NDF}: 255595.9/17$

Left:  $-7.110 \pm 0.009$   $\chi^2/\text{NDF}: 832918.8/36$

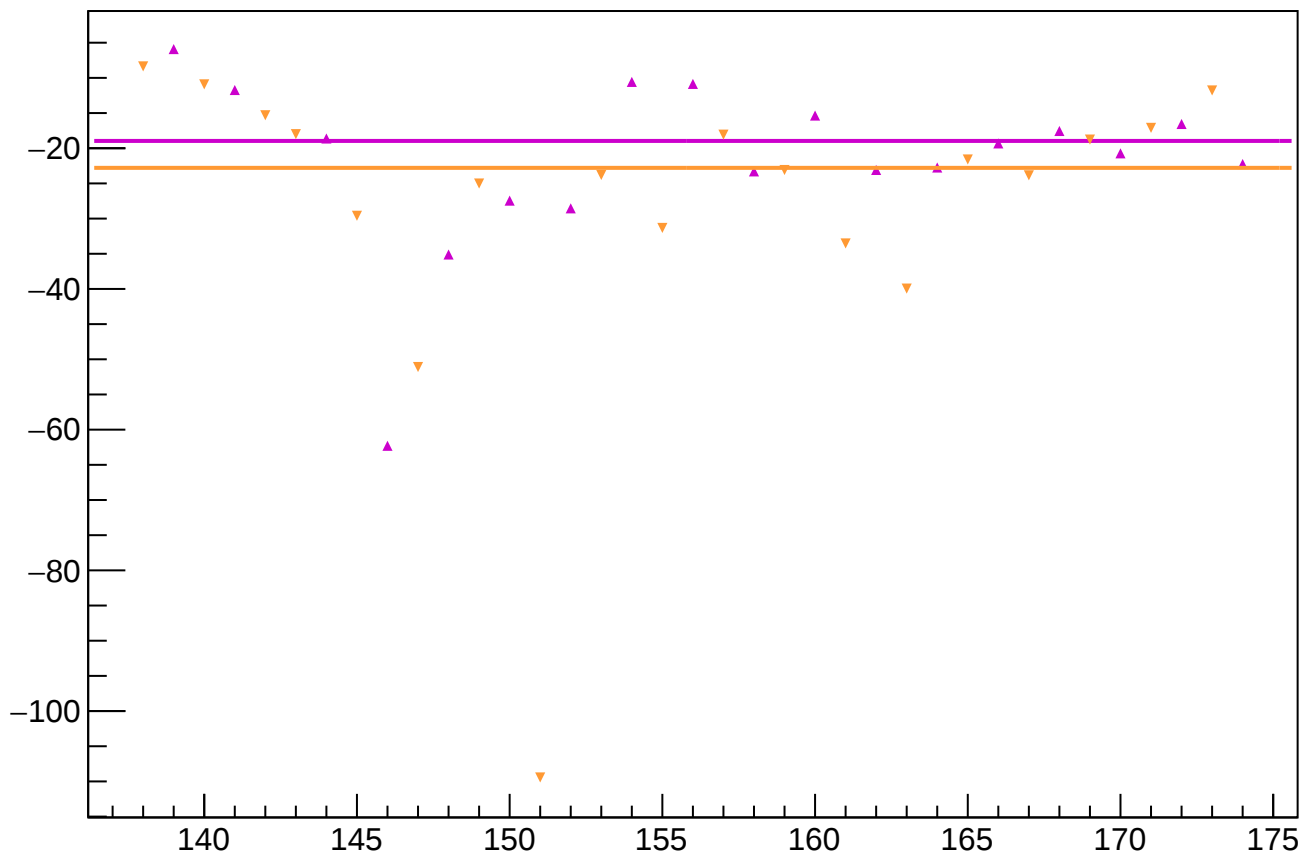
Right:  $9.008 \pm 0.022$   $\chi^2/\text{NDF}: 923283.8/34$

In:  $-4.730 \pm 0.012$   $\chi^2/\text{NDF}: 921060.0/34$

Out:  $-4.799 \pm 0.012$   $\chi^2/\text{NDF}: 1299146.1/36$

All:  $-4.764 \pm 0.008$   $\chi^2/\text{NDF}: 2220223.2/71$

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: -22.788+/-0.053  $\chi^2/\text{NDF}$ :62453.2/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.961+/-0.048  $\chi^2/\text{NDF}$ :38384.5/17

Left: -20.658+/-0.036  $\chi^2/\text{NDF}$ : 103690.4/36

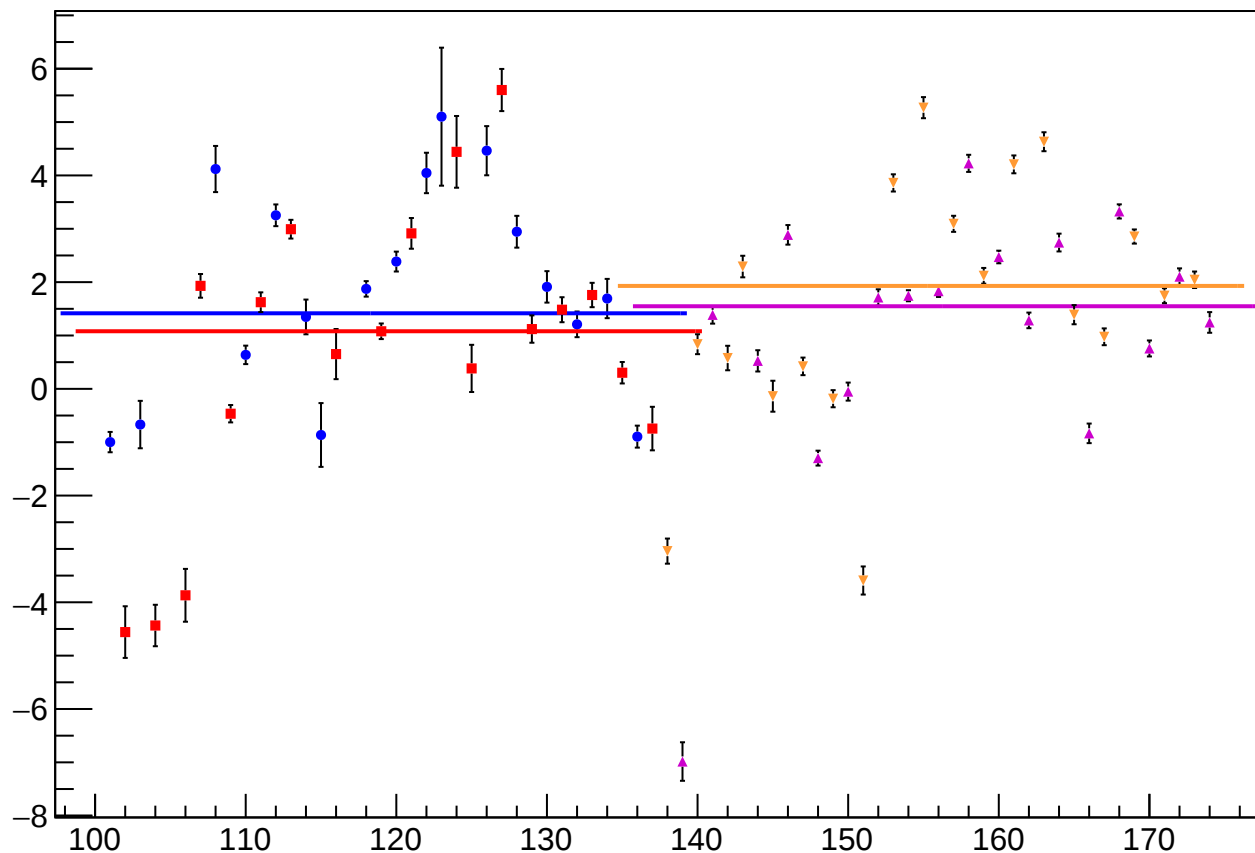
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.961+/-0.048  $\chi^2/\text{NDF}$ :38384.5/17

Out: -22.788+/-0.053  $\chi^2/\text{NDF}$ :62453.2/18

All: -20.658+/-0.036  $\chi^2/\text{NDF}$ : 103690.4/36

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.416 \pm 0.061$   $\chi^2/\text{NDF}$ : 631.2/16

Left Out:  $1.929 \pm 0.040$   $\chi^2/\text{NDF}$ : 2269.4/18

Right Out:  $1.080 \pm 0.058$   $\chi^2/\text{NDF}$ : 916.1/17

Left In:  $1.548 \pm 0.035$   $\chi^2/\text{NDF}$ : 1940.0/17

Left:  $1.717 \pm 0.026$   $\chi^2/\text{NDF}$ : 4260.7/36

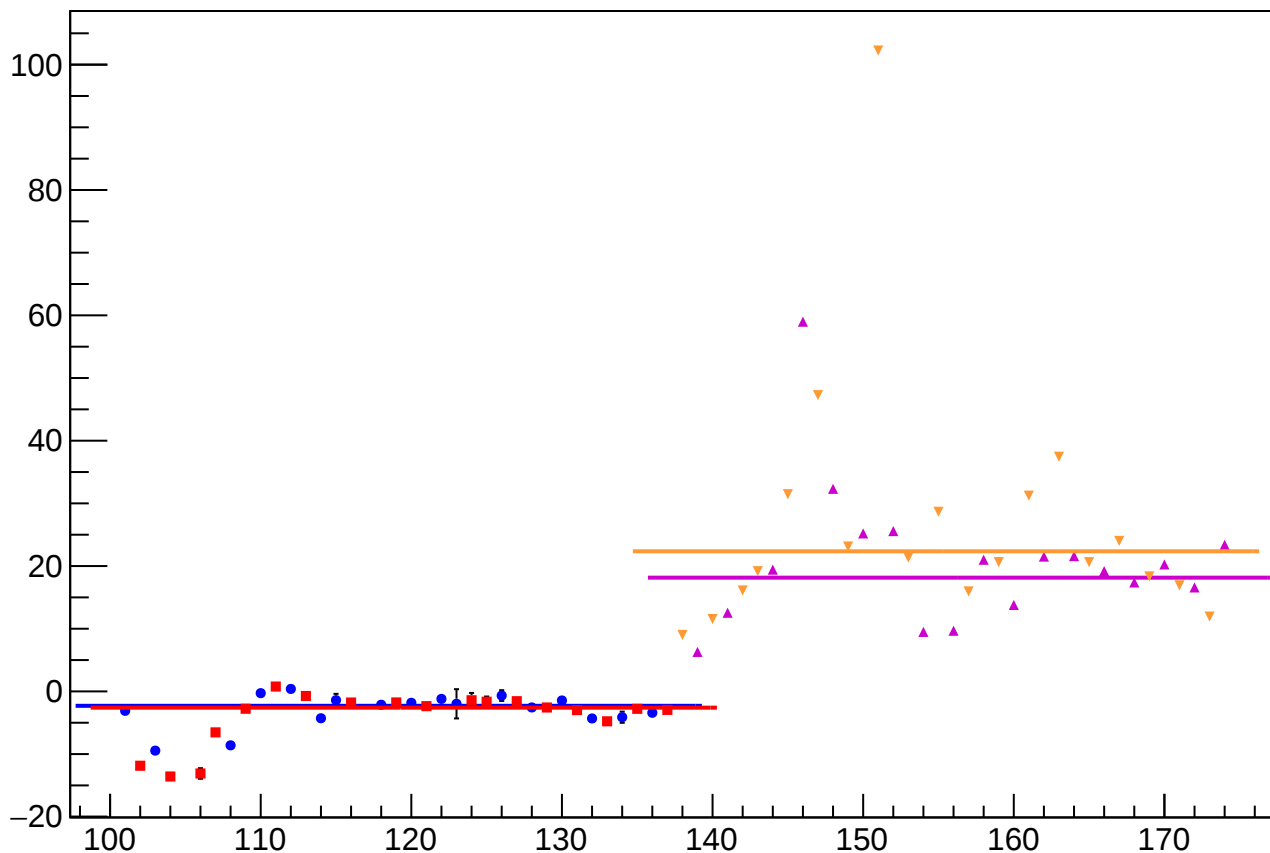
Right:  $1.239 \pm 0.042$   $\chi^2/\text{NDF}$ : 1563.2/34

In:  $1.515 \pm 0.031$   $\chi^2/\text{NDF}$ : 2574.7/34

Out:  $1.659 \pm 0.033$   $\chi^2/\text{NDF}$ : 3331.0/36

All:  $1.582 \pm 0.022$   $\chi^2/\text{NDF}$ : 5916.1/71

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:  $22.354 \pm 0.053$   $\chi^2/\text{NDF}$ : 55650.2/18

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

Left In:  $18.146 \pm 0.047$   $\chi^2/\text{NDF}$ : 36447.7/17

Left:  $19.986 \pm 0.035$   $\chi^2/\text{NDF}$ : 95650.3/36

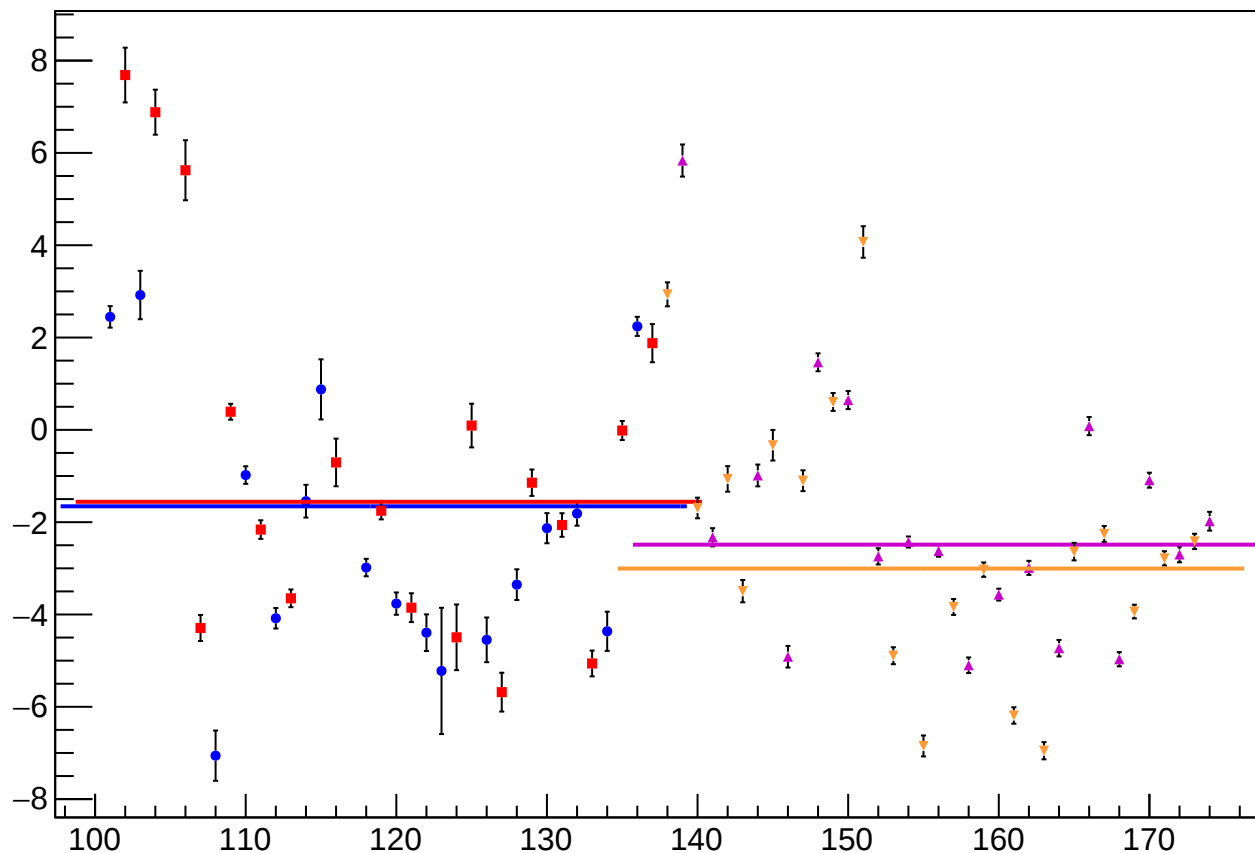
Right:  $-2.463 \pm 0.074$   $\chi^2/\text{NDF}$ : 1333.6/34

In:  $15.065 \pm 0.043$   $\chi^2/\text{NDF}$ : 65786.0/34

Out:  $16.826 \pm 0.047$   $\chi^2/\text{NDF}$ : 105702.9/36

All:  $15.873 \pm 0.032$   $\chi^2/\text{NDF}$ : 172257.3/71

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:  $-3.005 \pm 0.045$   $\chi^2/\text{NDF}$ : 2784.2/18

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

Left In:  $-2.487 \pm 0.040$   $\chi^2/\text{NDF}$ : 2387.5/17

Left:  $-2.716 \pm 0.030$   $\chi^2/\text{NDF}$ : 5245.8/36

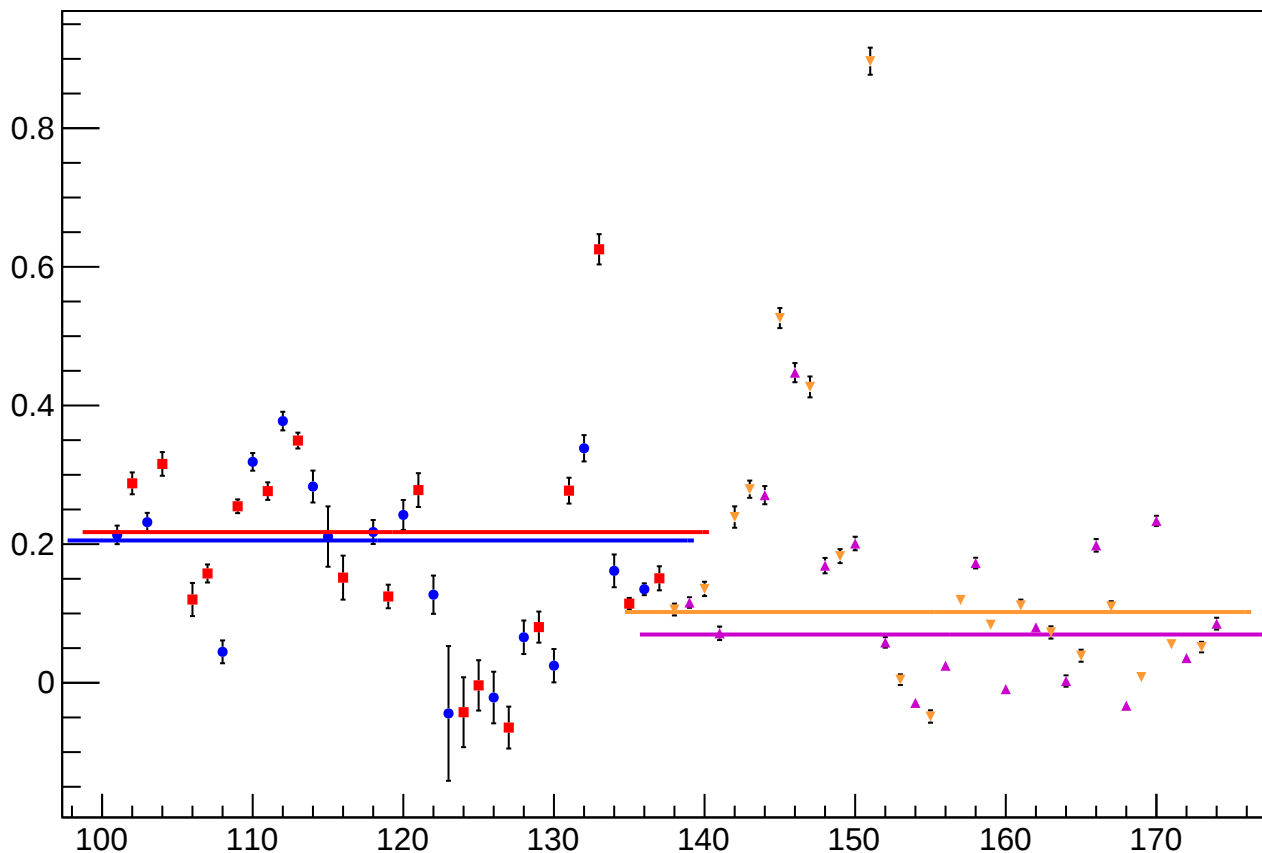
Right:  $-1.604 \pm 0.048$   $\chi^2/\text{NDF}$ : 2756.9/34

In:  $-2.285 \pm 0.035$   $\chi^2/\text{NDF}$ : 3763.8/34

Out:  $-2.545 \pm 0.037$   $\chi^2/\text{NDF}$ : 4599.4/36

All:  $-2.407 \pm 0.025$   $\chi^2/\text{NDF}$ : 8389.5/71

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.004$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $0.102 \pm 0.002$   $\chi^2/\text{NDF}$ : 4147.3/18

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

Left In:  $0.070 \pm 0.002$   $\chi^2/\text{NDF}$ : 3211.5/17

Left:  $0.084 \pm 0.001$   $\chi^2/\text{NDF}$ : 7508.1/36

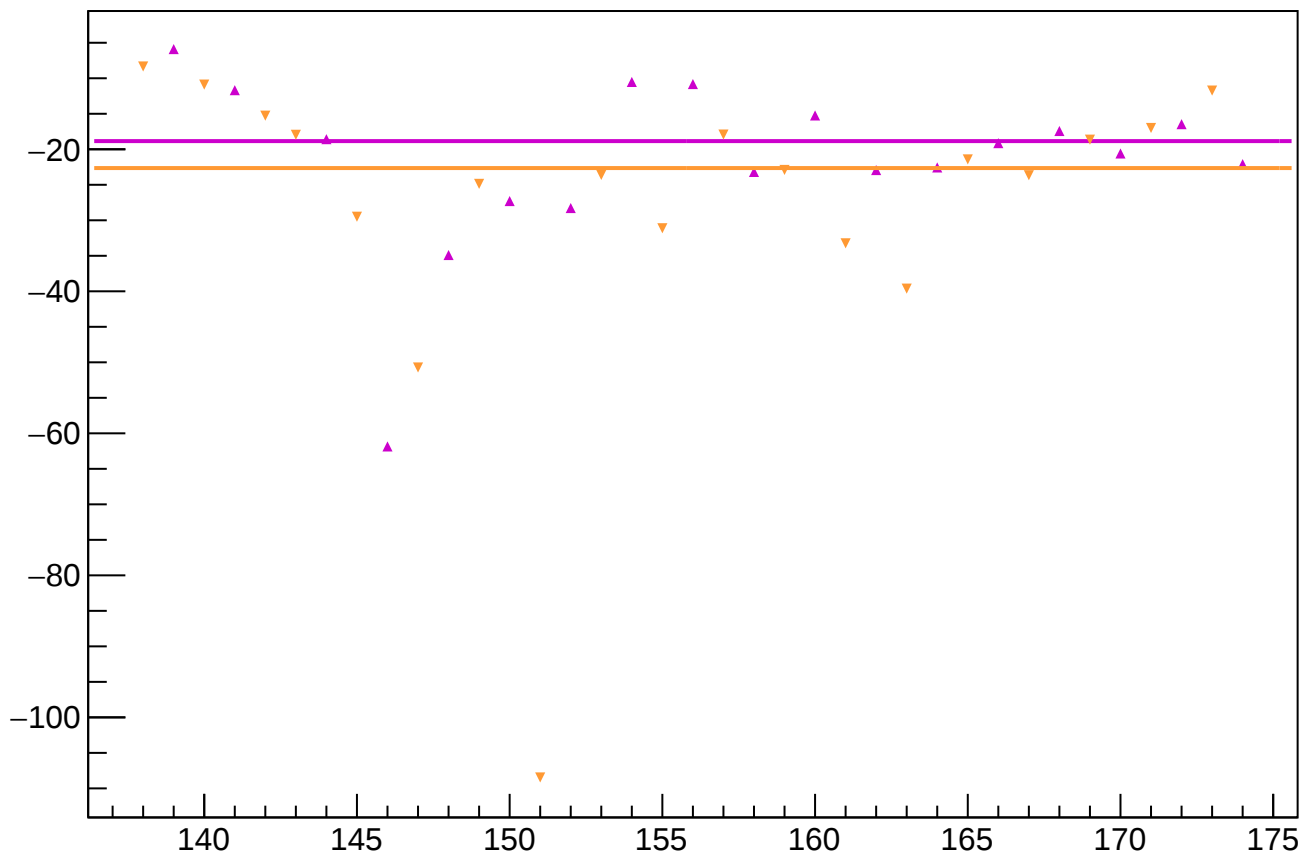
Right:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 1644.6/34

In:  $0.090 \pm 0.002$   $\chi^2/\text{NDF}$ : 4745.4/34

Out:  $0.128 \pm 0.002$   $\chi^2/\text{NDF}$ : 5913.0/36

All:  $0.107 \pm 0.001$   $\chi^2/\text{NDF}$ : 10915.8/71

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: -22.645+/-0.053  $\chi^2/\text{NDF}$ :62265.4/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.849+/-0.047  $\chi^2/\text{NDF}$ :38294.3/17

Left: -20.532+/-0.035  $\chi^2/\text{NDF}$ : 103402.6/36

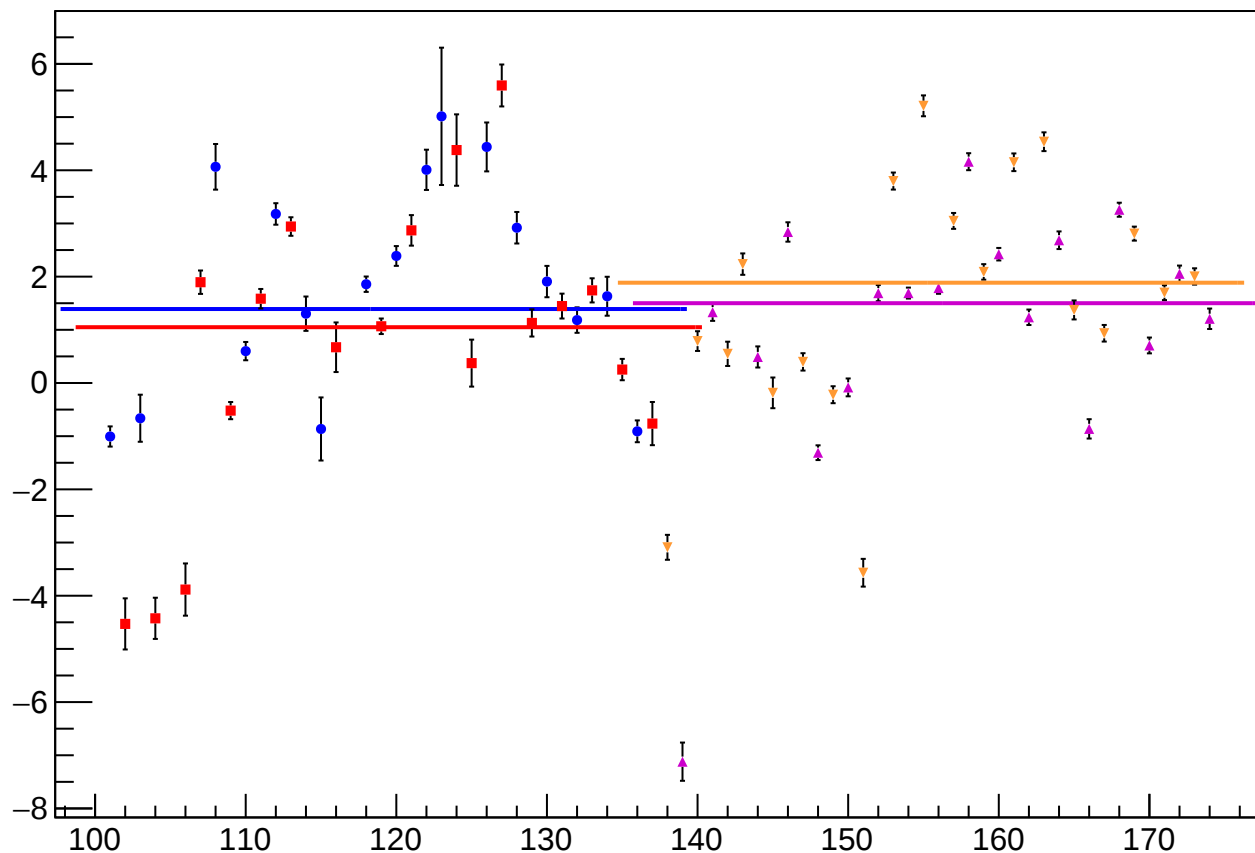
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.849+/-0.047  $\chi^2/\text{NDF}$ :38294.3/17

Out: -22.645+/-0.053  $\chi^2/\text{NDF}$ :62265.4/18

All: -20.532+/-0.035  $\chi^2/\text{NDF}$ : 103402.6/36

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.391 \pm 0.061$   $\chi^2/\text{NDF}$ : 629.2/16

Left Out:  $1.886 \pm 0.039$   $\chi^2/\text{NDF}$ : 2269.0/18

Right Out:  $1.049 \pm 0.058$   $\chi^2/\text{NDF}$ : 919.8/17

Left In:  $1.501 \pm 0.035$   $\chi^2/\text{NDF}$ : 1951.1/17

Left:  $1.671 \pm 0.026$   $\chi^2/\text{NDF}$ : 4273.2/36

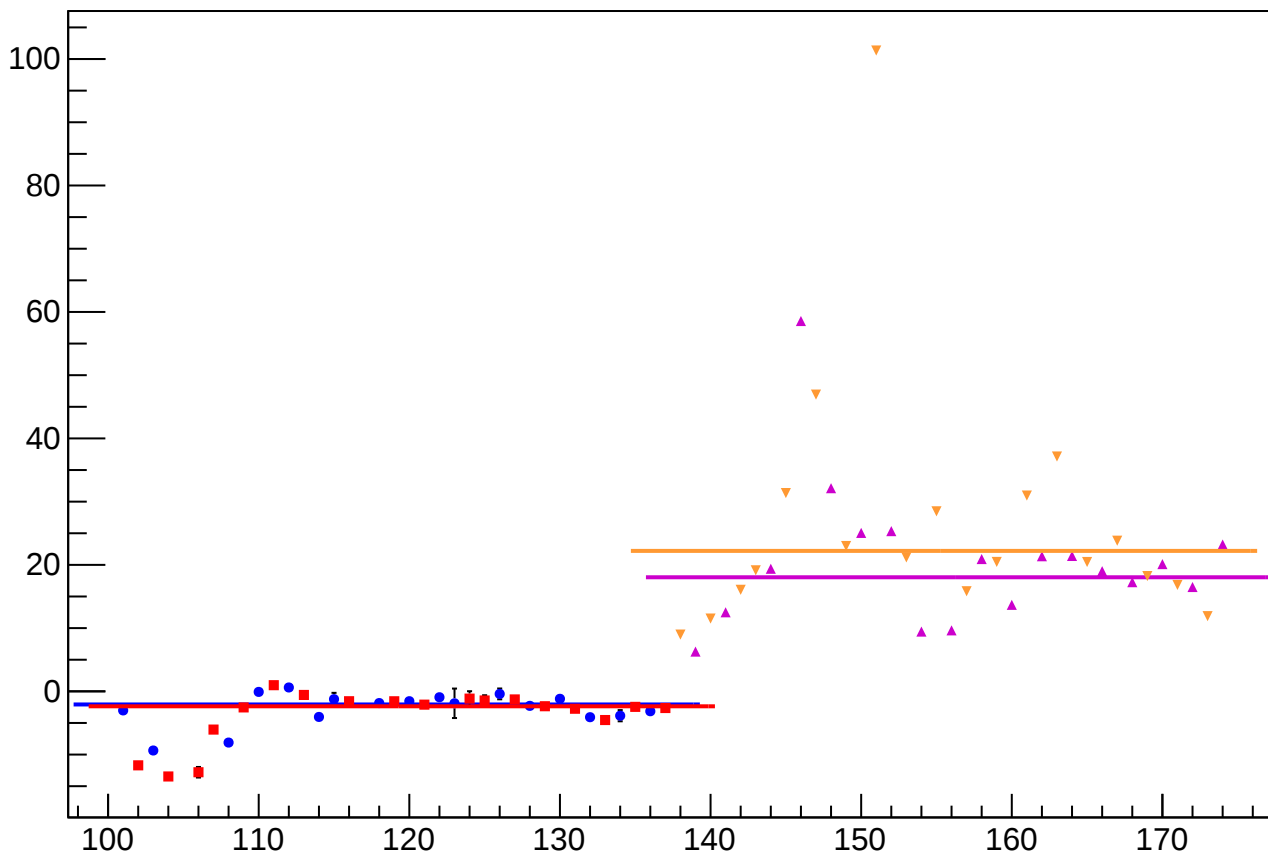
Right:  $1.211 \pm 0.042$   $\chi^2/\text{NDF}$ : 1565.5/34

In:  $1.473 \pm 0.030$   $\chi^2/\text{NDF}$ : 2582.7/34

Out:  $1.621 \pm 0.033$   $\chi^2/\text{NDF}$ : 3331.4/36

All:  $1.542 \pm 0.022$   $\chi^2/\text{NDF}$ : 5925.1/71

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:  $22.211 \pm 0.053$   $\chi^2/\text{NDF}$ : 55503.1/18

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

Left In:  $18.039 \pm 0.046$   $\chi^2/\text{NDF}$ : 36368.7/17

Left:  $19.864 \pm 0.035$   $\chi^2/\text{NDF}$ : 95409.3/36

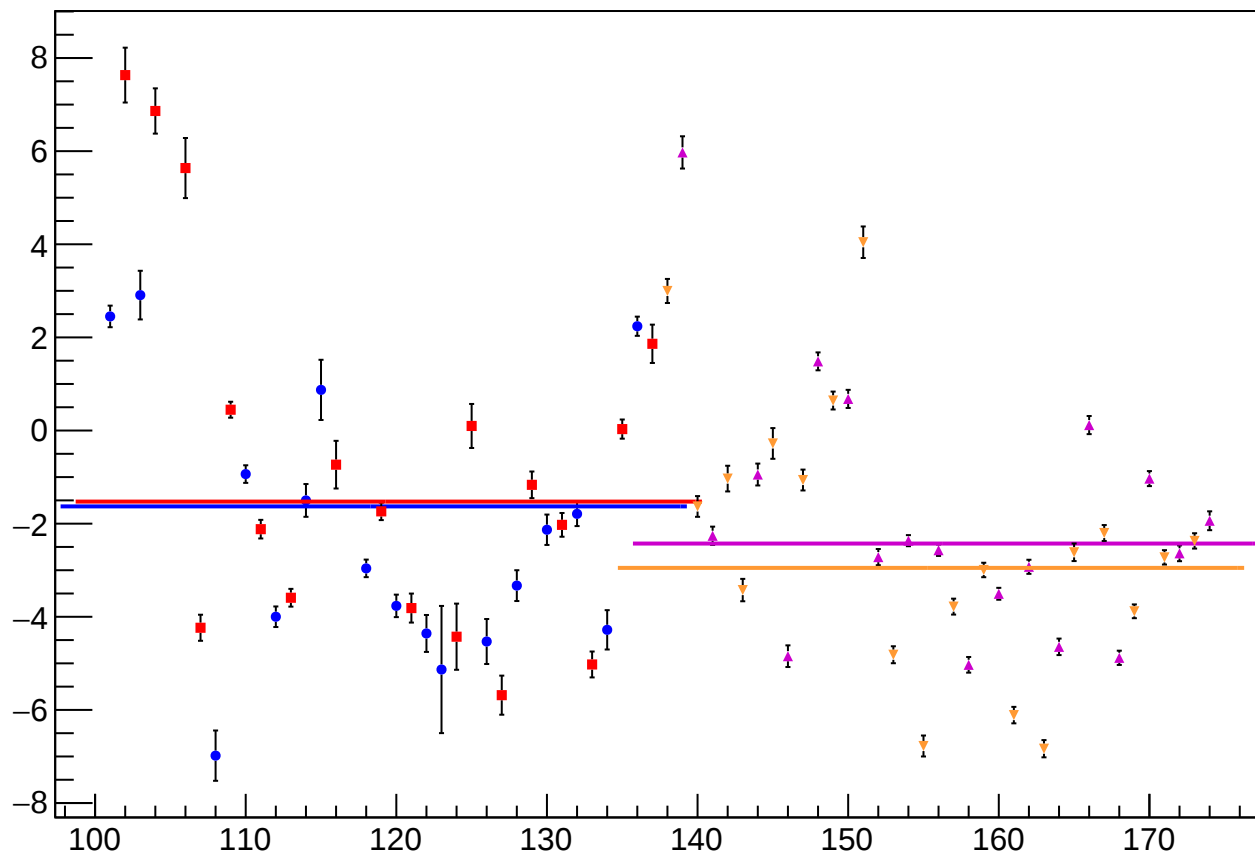
Right:  $-2.237 \pm 0.074$   $\chi^2/\text{NDF}$ : 1339.4/34

In:  $15.015 \pm 0.043$   $\chi^2/\text{NDF}$ : 65074.9/34

Out:  $16.776 \pm 0.046$   $\chi^2/\text{NDF}$ : 104648.3/36

All:  $15.823 \pm 0.031$   $\chi^2/\text{NDF}$ : 170501.1/71

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 1266.4/16

Left Out:  $-2.950 \pm 0.045$   $\chi^2/\text{NDF}$ : 2782.4/18

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

Left In:  $-2.427 \pm 0.040$   $\chi^2/\text{NDF}$ : 2399.0/17

Left:  $-2.659 \pm 0.030$   $\chi^2/\text{NDF}$ : 5258.1/36

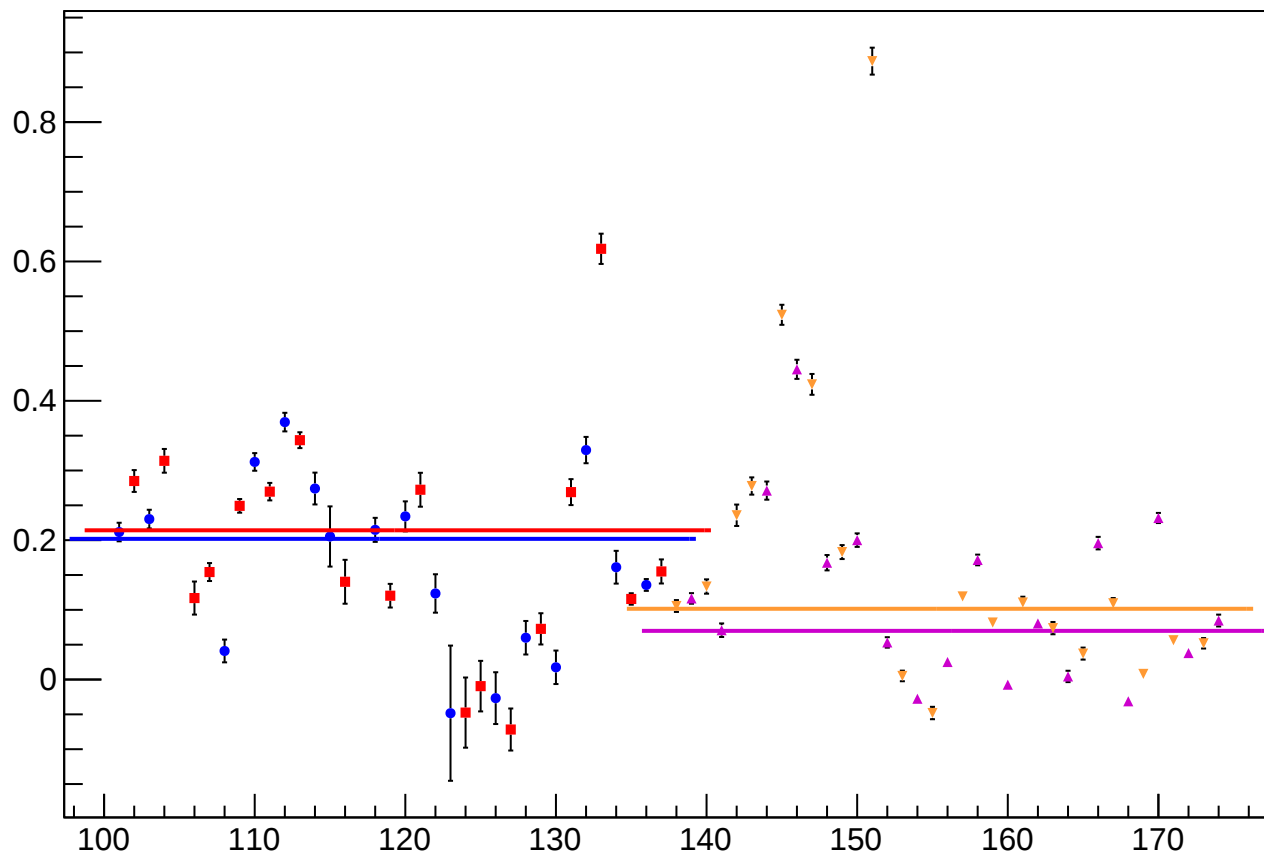
Right:  $-1.574 \pm 0.048$   $\chi^2/\text{NDF}$ : 2755.7/34

In:  $-2.233 \pm 0.035$   $\chi^2/\text{NDF}$ : 3763.4/34

Out:  $-2.499 \pm 0.037$   $\chi^2/\text{NDF}$ : 4594.3/36

All:  $-2.358 \pm 0.025$   $\chi^2/\text{NDF}$ : 8385.3/71

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.202 \pm 0.004$   $\chi^2/\text{NDF}$ : 604.6/16

Left Out:  $0.102 \pm 0.002$   $\chi^2/\text{NDF}$ : 4138.5/18

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1001.6/17

Left In:  $0.070 \pm 0.002$   $\chi^2/\text{NDF}$ : 3184.8/17

Left:  $0.083 \pm 0.001$   $\chi^2/\text{NDF}$ : 7467.5/36

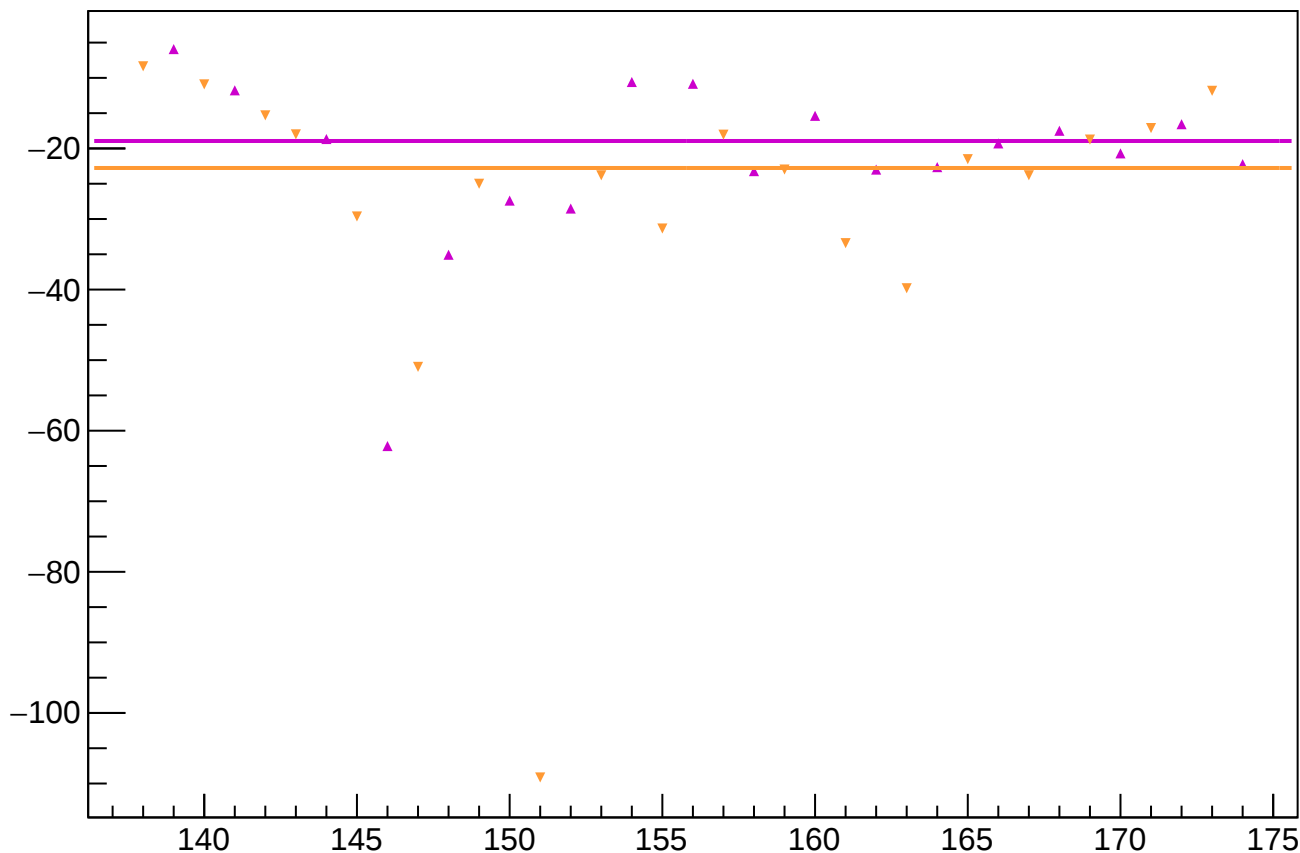
Right:  $0.209 \pm 0.003$   $\chi^2/\text{NDF}$ : 1611.2/34

In:  $0.090 \pm 0.002$   $\chi^2/\text{NDF}$ : 4663.7/34

Out:  $0.127 \pm 0.002$   $\chi^2/\text{NDF}$ : 5860.2/36

All:  $0.106 \pm 0.001$   $\chi^2/\text{NDF}$ : 10773.4/71

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: -22.769+/-0.053  $\chi^2/\text{NDF}$ :62379.9/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.944+/-0.048  $\chi^2/\text{NDF}$ :38357.0/17

Left: -20.639+/-0.036  $\chi^2/\text{NDF}$ : 103600.1/36

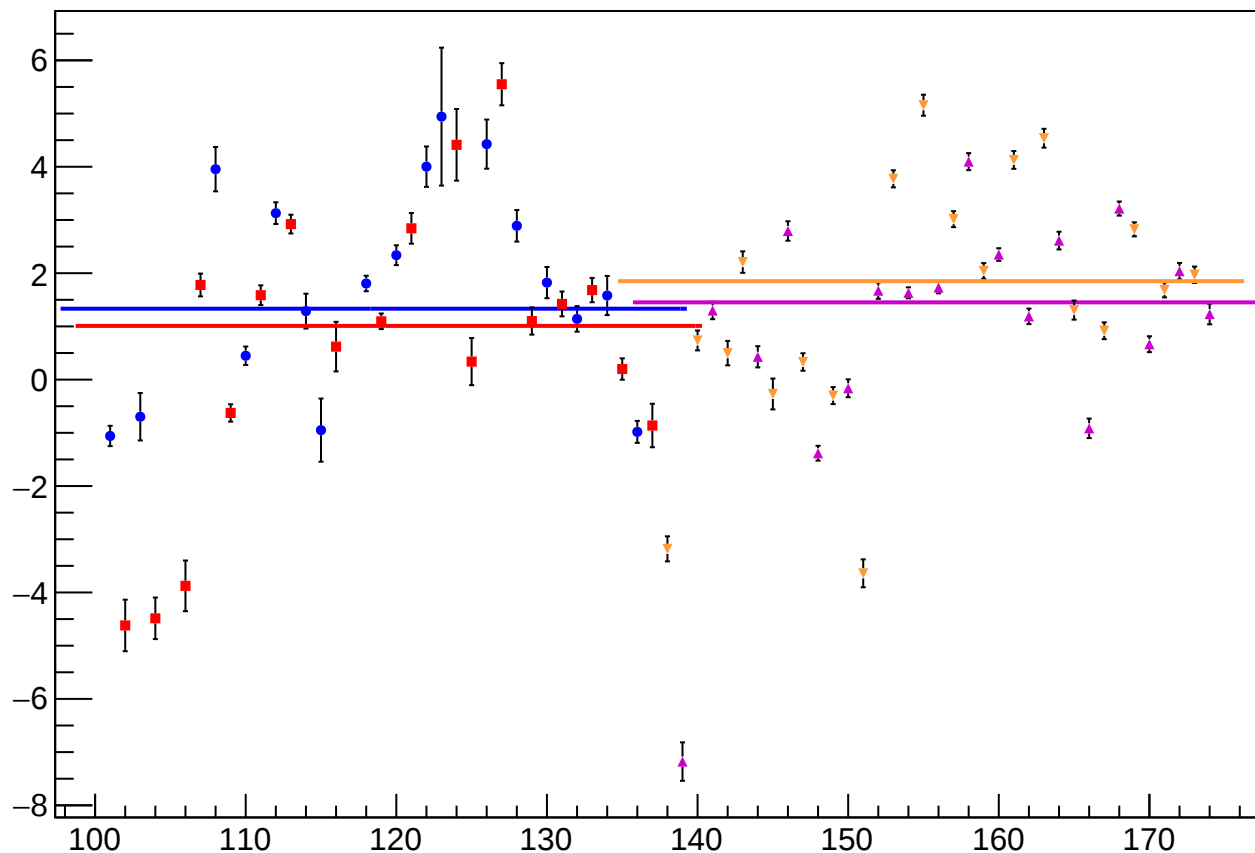
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.944+/-0.048  $\chi^2/\text{NDF}$ :38357.0/17

Out: -22.769+/-0.053  $\chi^2/\text{NDF}$ :62379.9/18

All: -20.639+/-0.036  $\chi^2/\text{NDF}$ : 103600.1/36

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.333 $\pm$ 0.061  $\chi^2$ /NDF: 634.6/16

Left Out: 1.850 $\pm$ 0.040  $\chi^2$ /NDF:2291.2/18

Right Out: 1.010 $\pm$ 0.058  $\chi^2$ /NDF: 930.3/17

Left In: 1.452 $\pm$ 0.035  $\chi^2$ /NDF:1941.0/17

Left: 1.628 $\pm$ 0.026  $\chi^2$ /NDF: 4288.4/36

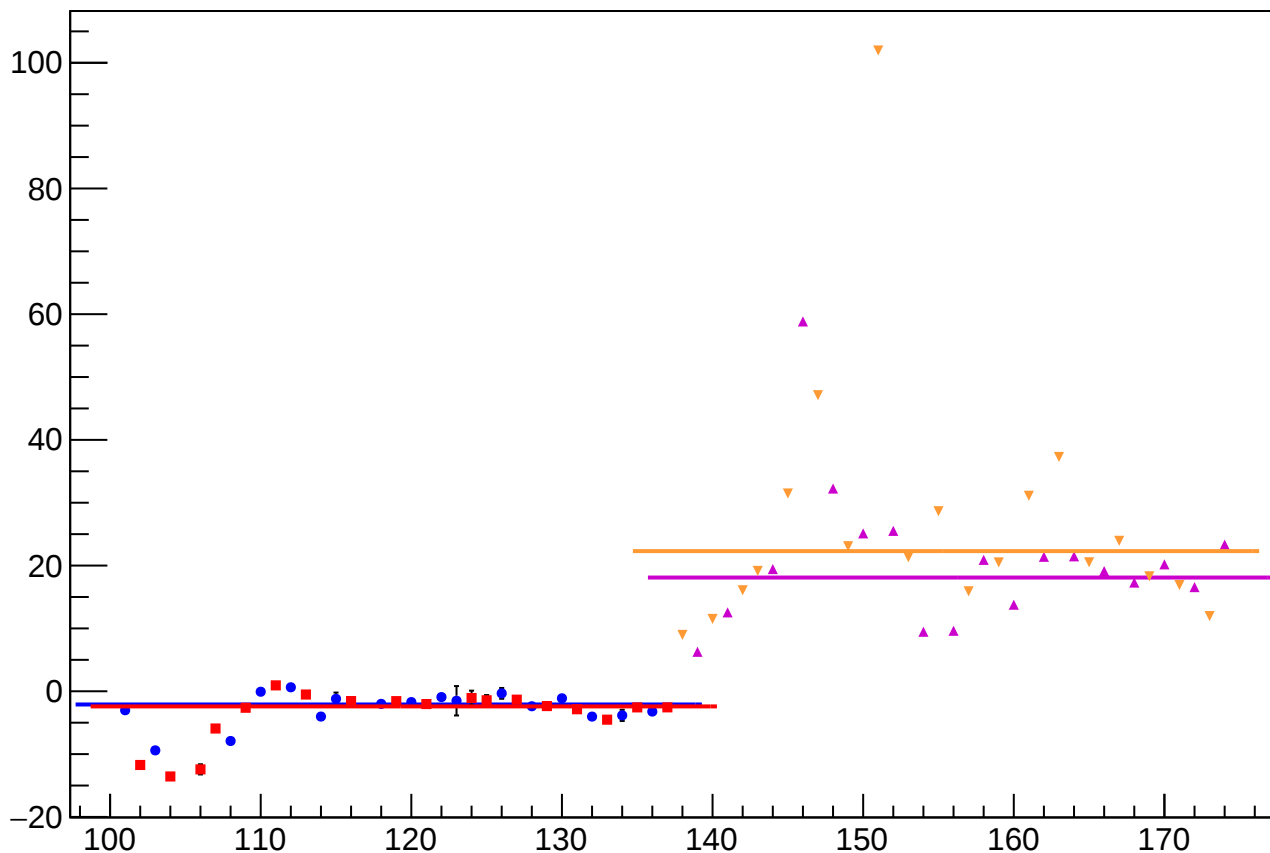
Right: 1.163 $\pm$ 0.042  $\chi^2$ /NDF: 1579.5/34

In: 1.422 $\pm$ 0.031  $\chi^2$ /NDF:2578.4/34

Out: 1.583 $\pm$ 0.033  $\chi^2$ /NDF:3364.4/36

All: 1.497 $\pm$ 0.022  $\chi^2$ /NDF: 5955.7/71

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:  $22.300 \pm 0.053$   $\chi^2/\text{NDF}$ : 55601.3/18

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

Left In:  $18.095 \pm 0.047$   $\chi^2/\text{NDF}$ : 36446.4/17

Left:  $19.933 \pm 0.035$   $\chi^2/\text{NDF}$ : 95612.9/36

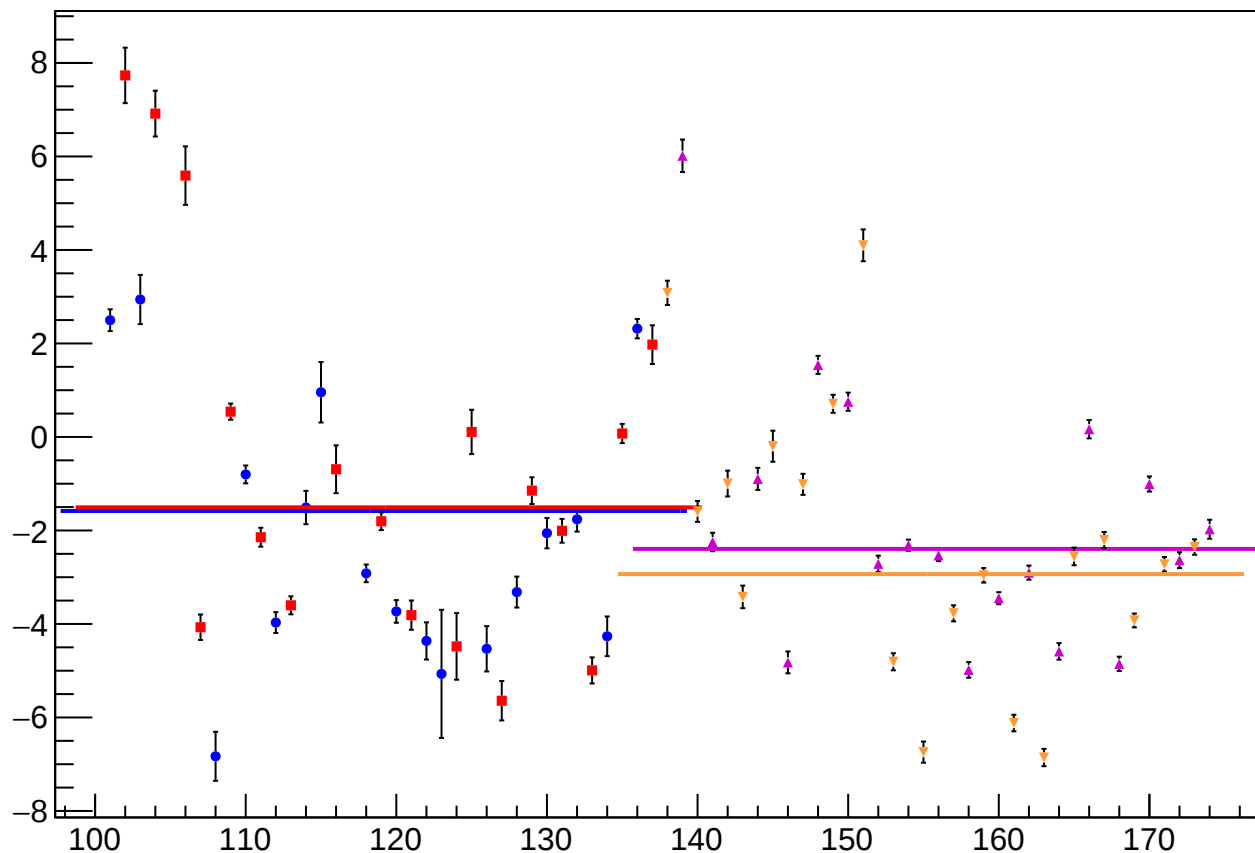
Right:  $-2.274 \pm 0.074$   $\chi^2/\text{NDF}$ : 1331.4/34

In:  $15.066 \pm 0.043$   $\chi^2/\text{NDF}$ : 65098.2/34

Out:  $16.842 \pm 0.047$   $\chi^2/\text{NDF}$ : 104798.4/36

All:  $15.881 \pm 0.032$   $\chi^2/\text{NDF}$ : 170680.9/71

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-2.933 \pm 0.045$   $\chi^2/\text{NDF}$ : 2810.6/18

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

Left In:  $-2.394 \pm 0.040$   $\chi^2/\text{NDF}$ : 2387.2/17

Left:  $-2.633 \pm 0.030$   $\chi^2/\text{NDF}$ : 5278.7/36

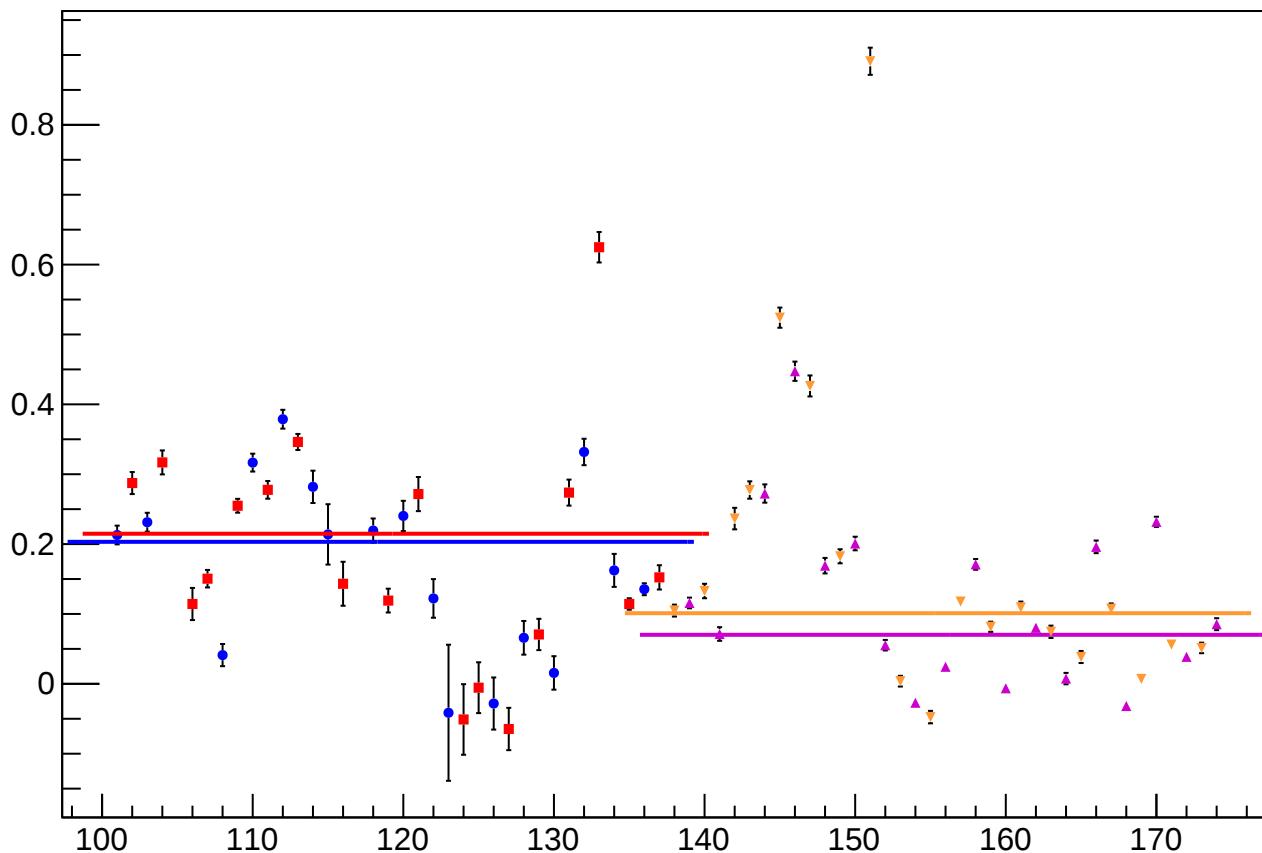
Right:  $-1.542 \pm 0.048$   $\chi^2/\text{NDF}$ : 2772.7/34

In:  $-2.198 \pm 0.035$   $\chi^2/\text{NDF}$ : 3759.5/34

Out:  $-2.480 \pm 0.037$   $\chi^2/\text{NDF}$ : 4633.7/36

All:  $-2.330 \pm 0.025$   $\chi^2/\text{NDF}$ : 8424.3/71

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.203 $\pm$ 0.004  $\chi^2$ /NDF: 632.8/16

Left Out: 0.101 $\pm$ 0.002  $\chi^2$ /NDF: 4126.5/18

Right Out: 0.215 $\pm$ 0.004  $\chi^2$ /NDF: 1033.0/17

Left In: 0.070 $\pm$ 0.002  $\chi^2$ /NDF: 3163.2/17

Left: 0.083 $\pm$ 0.001  $\chi^2$ /NDF: 7425.9/36

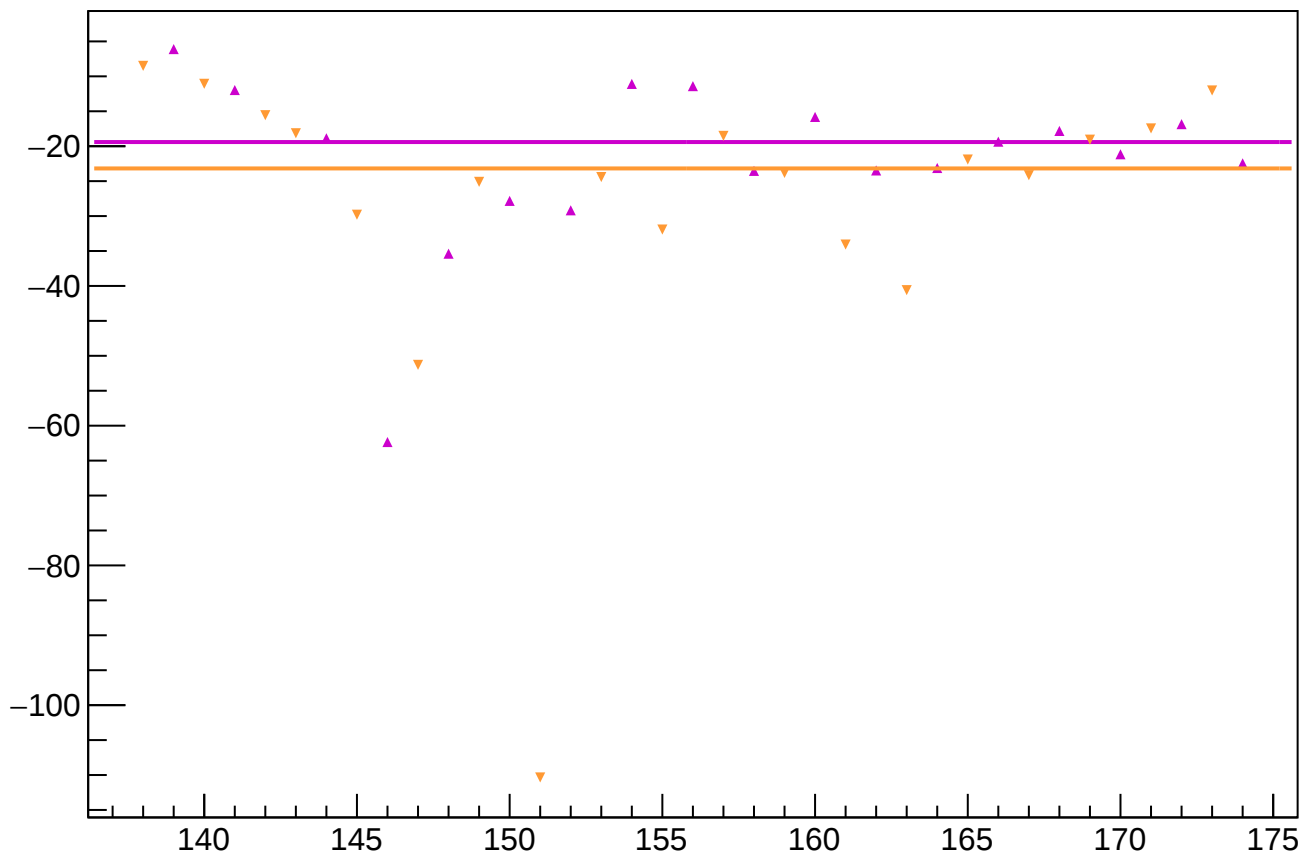
Right: 0.210 $\pm$ 0.003  $\chi^2$ /NDF: 1670.1/34

In: 0.090 $\pm$ 0.002  $\chi^2$ /NDF: 4677.7/34

Out: 0.127 $\pm$ 0.002  $\chi^2$ /NDF: 5890.4/36

All: 0.107 $\pm$ 0.001  $\chi^2$ /NDF: 10807.9/71

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: -23.182+/-0.054  $\chi^2/\text{NDF}$ :62234.2/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.405+/-0.049  $\chi^2/\text{NDF}$ :37219.9/17

Left: -21.086+/-0.036  $\chi^2/\text{NDF}$ : 102129.7/36

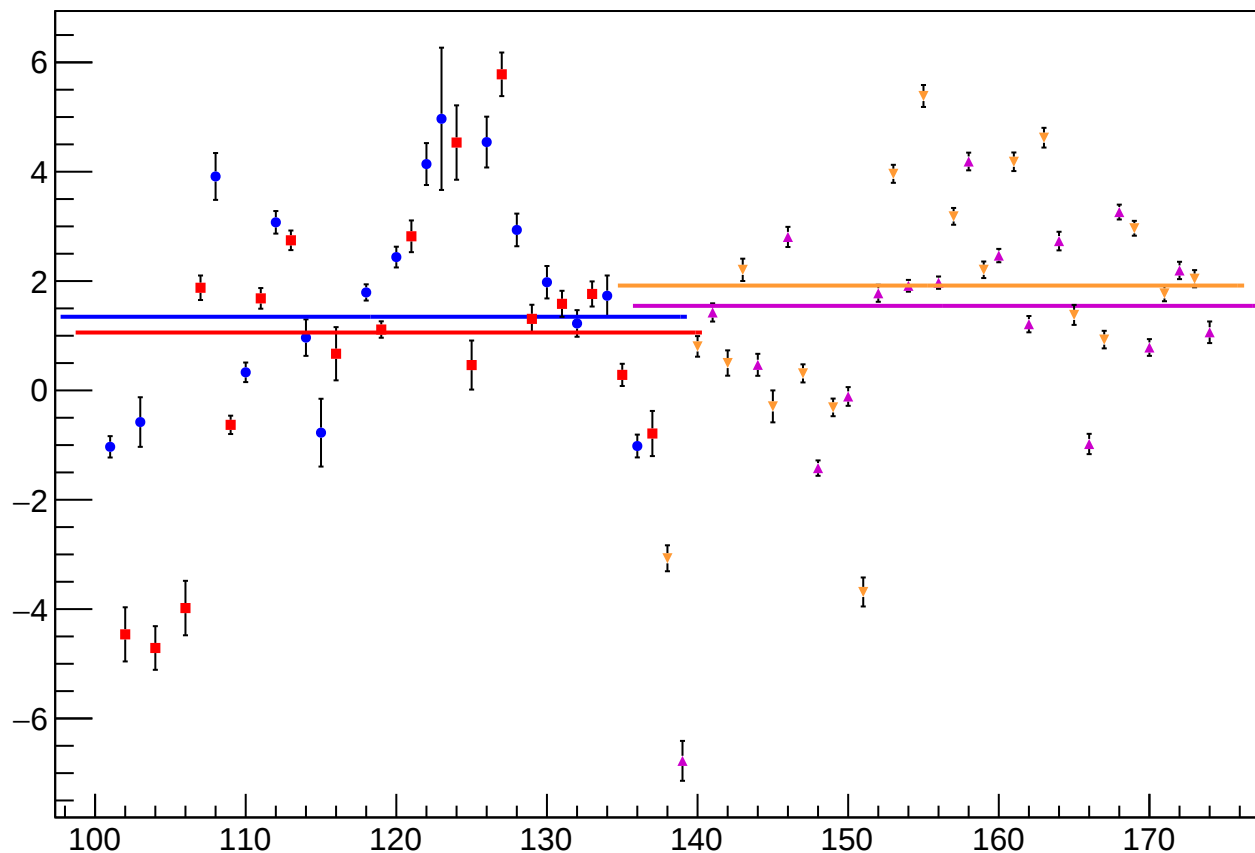
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.405+/-0.049  $\chi^2/\text{NDF}$ :37219.9/17

Out: -23.182+/-0.054  $\chi^2/\text{NDF}$ :62234.2/18

All: -21.086+/-0.036  $\chi^2/\text{NDF}$ : 102129.7/36

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.347 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 630.1/16

Left Out: 1.918 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 2337.1/18

Right Out: 1.059 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 905.3/17

Left In: 1.547 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 1931.3/17

Left: 1.712 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 4315.3/36

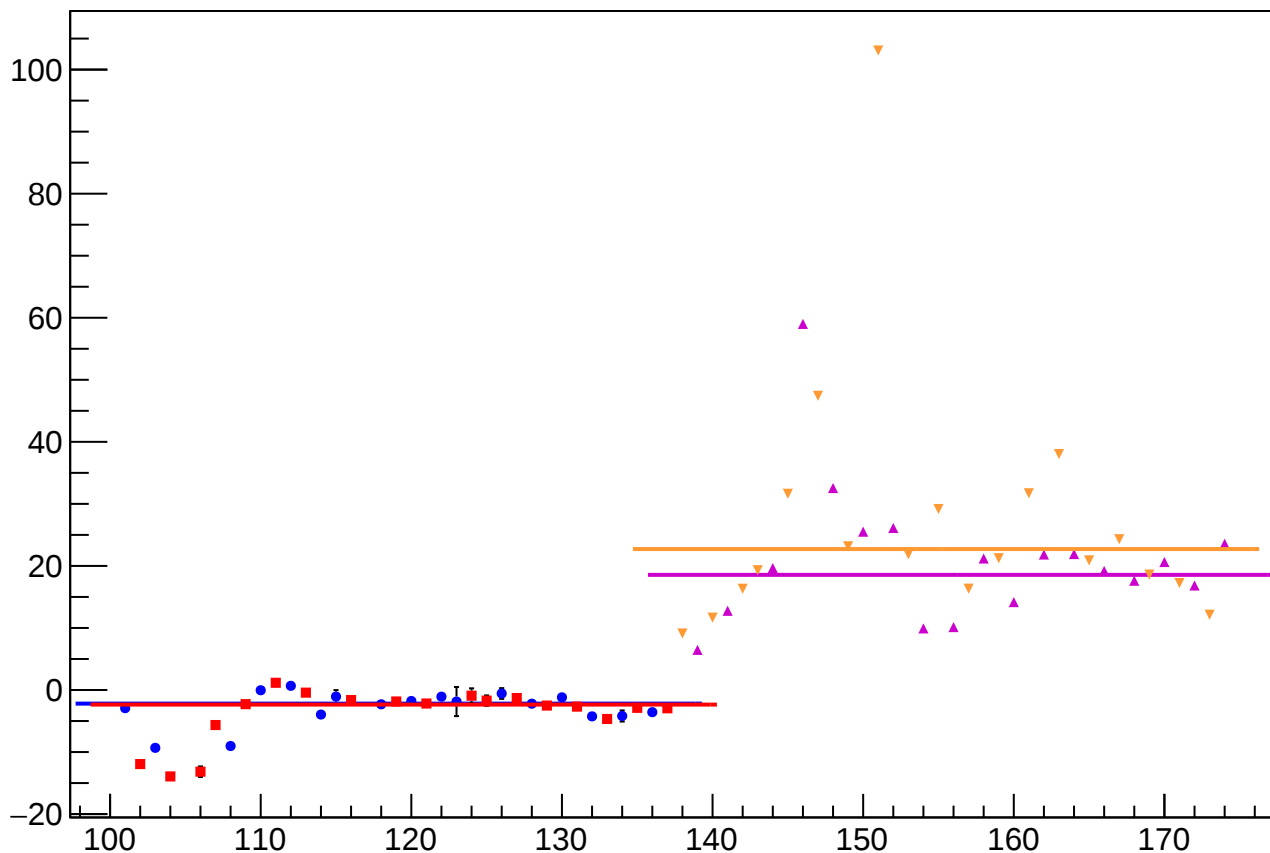
Right: 1.196 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 1546.6/34

In: 1.496 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 2569.1/34

Out: 1.646 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 3385.8/36

All: 1.566 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 5965.6/71

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:  $22.720 \pm 0.054$   $\chi^2/\text{NDF}$ : 55345.9/18

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}$ : 908.5/17

Left In:  $18.560 \pm 0.048$   $\chi^2/\text{NDF}$ : 35151.7/17

Left:  $20.388 \pm 0.036$   $\chi^2/\text{NDF}$ : 93838.0/36

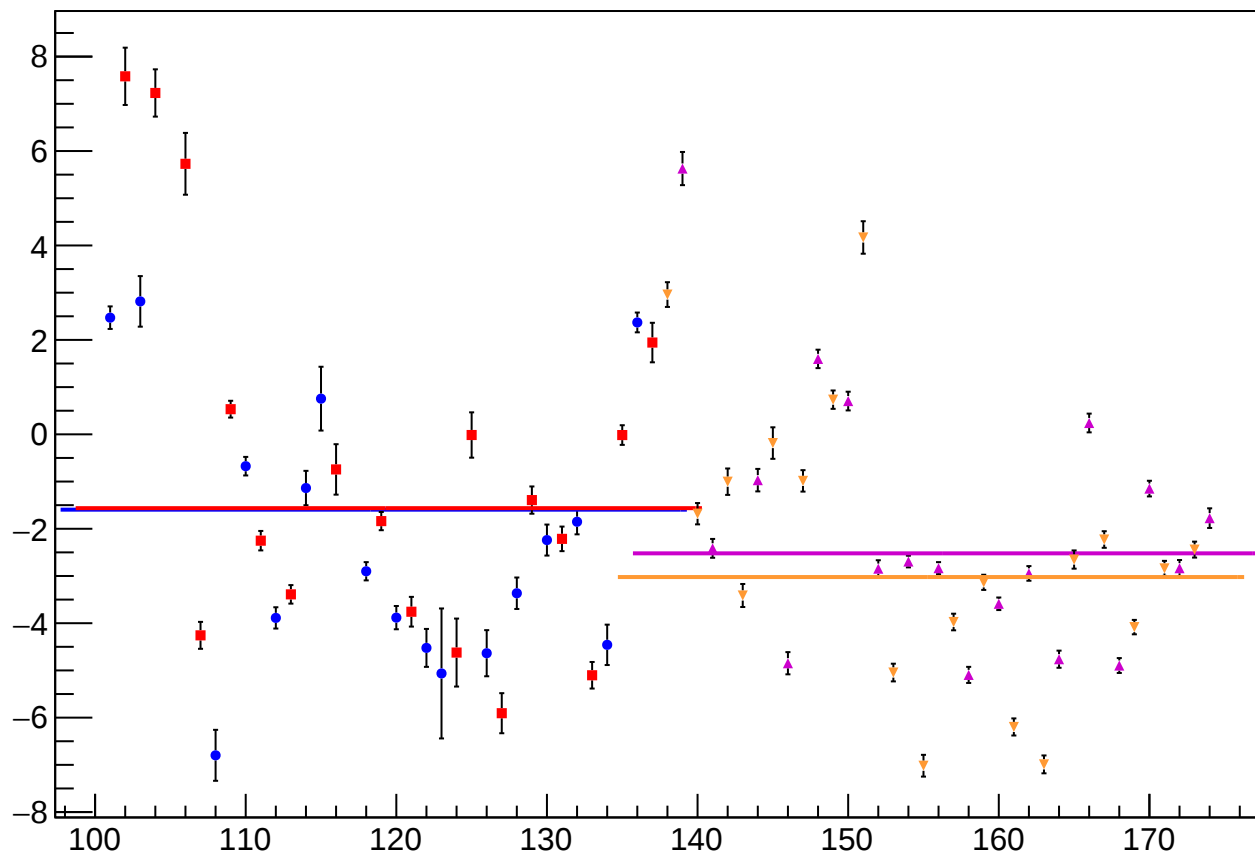
Right:  $-2.280 \pm 0.075$   $\chi^2/\text{NDF}$ : 1373.0/34

In:  $15.414 \pm 0.044$   $\chi^2/\text{NDF}$ : 64310.0/34

Out:  $17.193 \pm 0.048$   $\chi^2/\text{NDF}$ : 103962.3/36

All:  $16.233 \pm 0.032$   $\chi^2/\text{NDF}$ : 169027.0/71

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:  $-3.022 \pm 0.046$   $\chi^2/\text{NDF}$ : 2853.4/18

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

Left In:  $-2.520 \pm 0.041$   $\chi^2/\text{NDF}$ : 2356.4/17

Left:  $-2.744 \pm 0.030$   $\chi^2/\text{NDF}$ : 5276.9/36

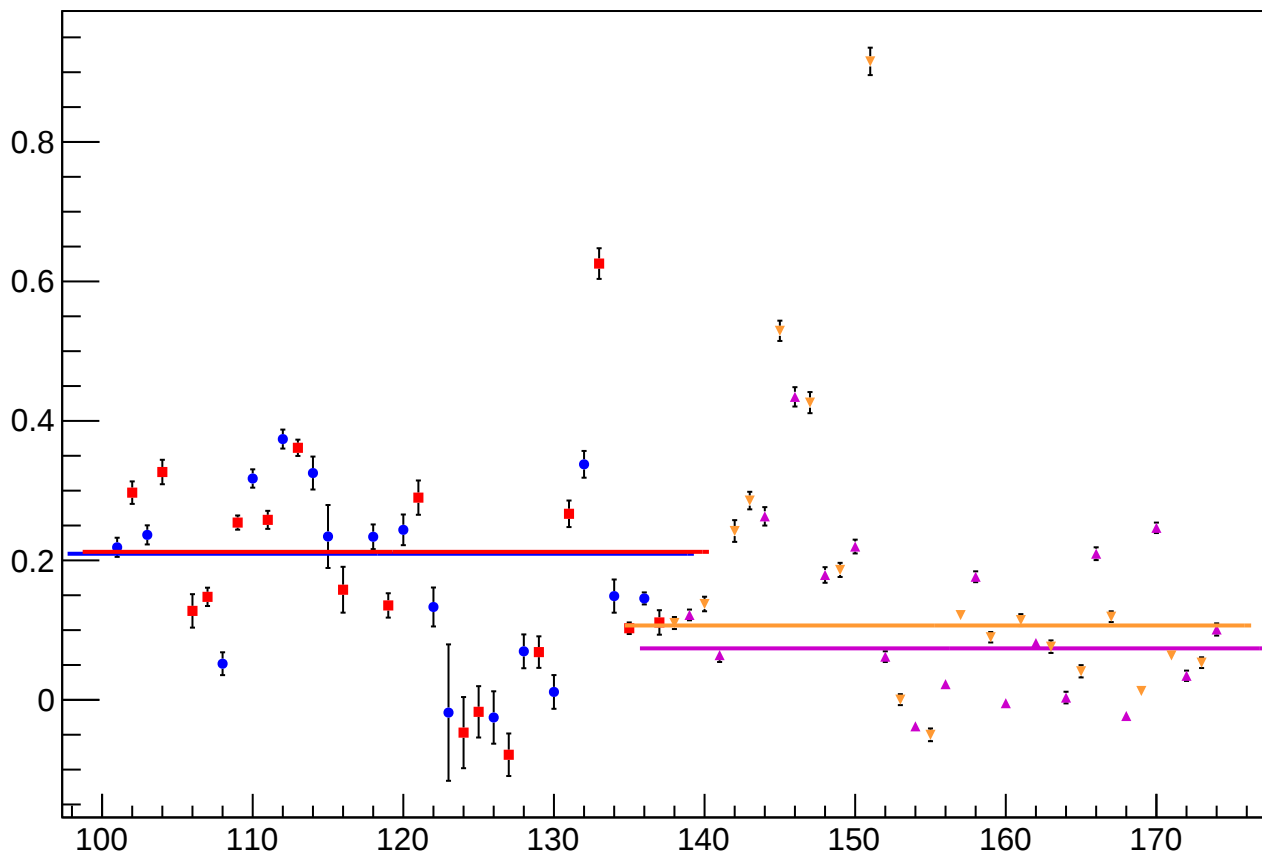
Right:  $-1.578 \pm 0.049$   $\chi^2/\text{NDF}$ : 2717.4/34

In:  $-2.294 \pm 0.036$   $\chi^2/\text{NDF}$ : 3737.4/34

Out:  $-2.560 \pm 0.038$   $\chi^2/\text{NDF}$ : 4639.4/36

All:  $-2.419 \pm 0.026$   $\chi^2/\text{NDF}$ : 8403.3/71

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.210 \pm 0.004$   $\chi^2/\text{NDF}$ : 597.7/16

Left Out:  $0.107 \pm 0.002$   $\chi^2/\text{NDF}$ : 4159.8/18

Right Out:  $0.212 \pm 0.004$   $\chi^2/\text{NDF}$ : 1096.9/17

Left In:  $0.074 \pm 0.002$   $\chi^2/\text{NDF}$ : 3259.9/17

Left:  $0.088 \pm 0.001$   $\chi^2/\text{NDF}$ : 7566.3/36

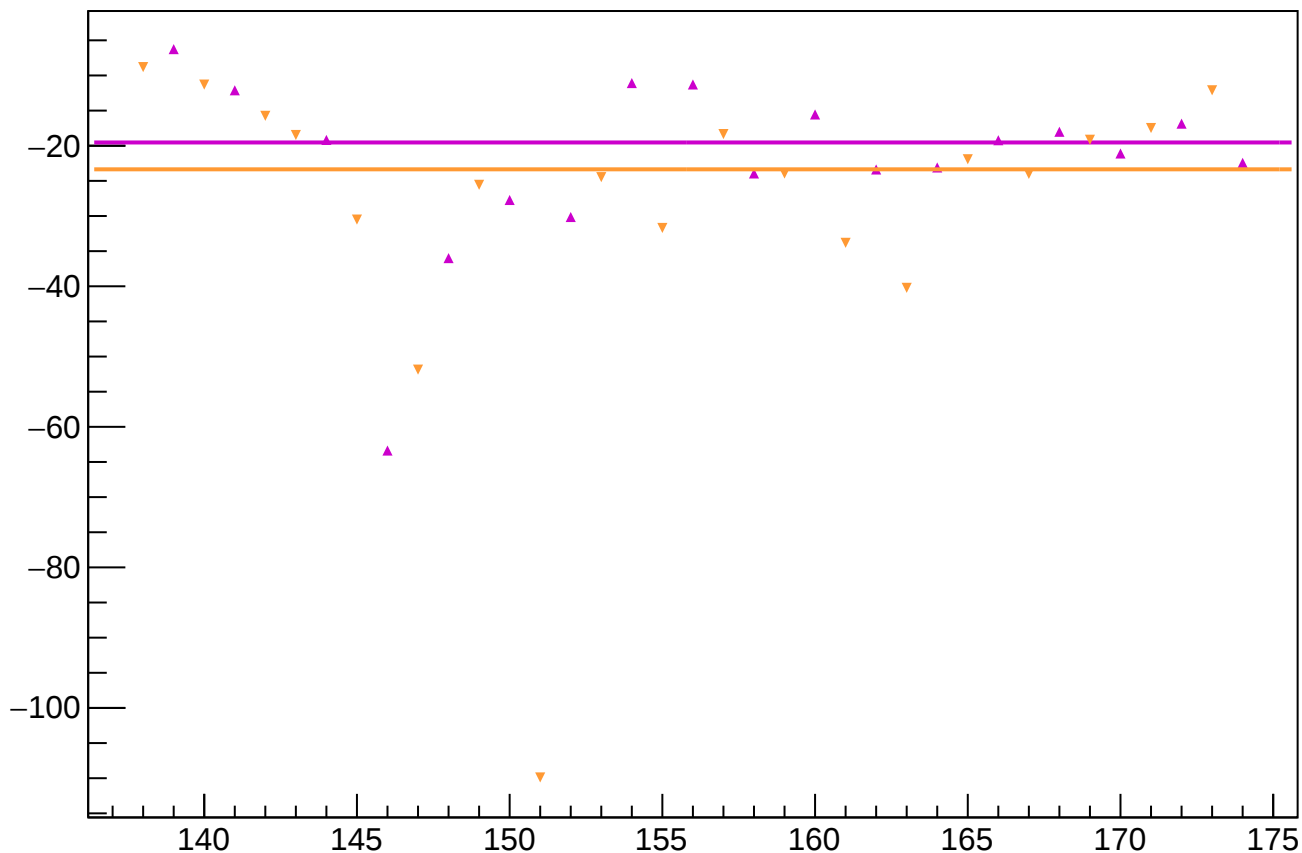
Right:  $0.211 \pm 0.003$   $\chi^2/\text{NDF}$ : 1694.9/34

In:  $0.094 \pm 0.002$   $\chi^2/\text{NDF}$ : 4740.5/34

Out:  $0.131 \pm 0.002$   $\chi^2/\text{NDF}$ : 5861.6/36

All:  $0.111 \pm 0.001$   $\chi^2/\text{NDF}$ : 10823.8/71

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: -23.357+/-0.055  $\chi^2/\text{NDF}$ :61008.4/18

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.535+/-0.049  $\chi^2/\text{NDF}$ :37445.9/17

Left: -21.241+/-0.037  $\chi^2/\text{NDF}$ : 101133.6/36

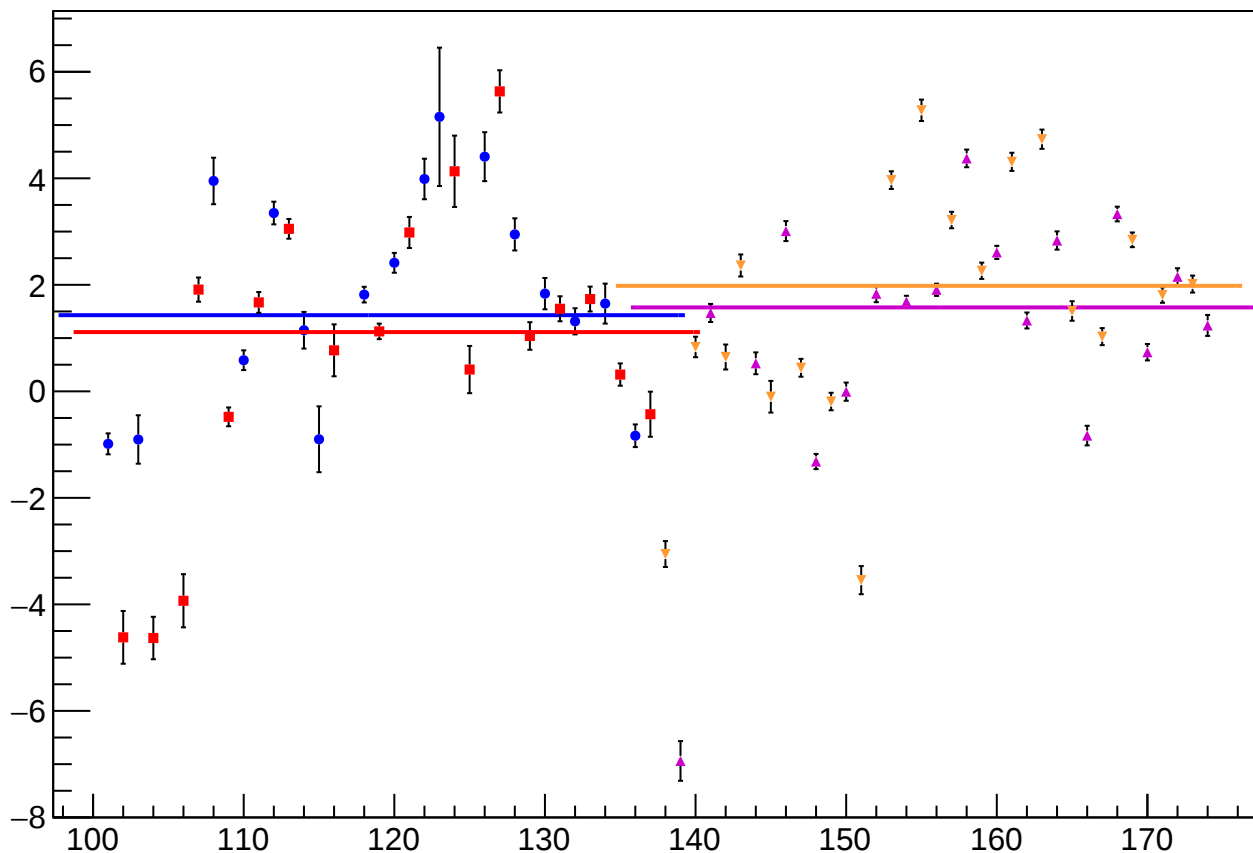
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -19.535+/-0.049  $\chi^2/\text{NDF}$ :37445.9/17

Out: -23.357+/-0.055  $\chi^2/\text{NDF}$ :61008.4/18

All: -21.241+/-0.037  $\chi^2/\text{NDF}$ : 101133.6/36

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.430 $\pm$ 0.063  $\chi^2$ /NDF: 598.0/16

Left Out: 1.981 $\pm$ 0.041  $\chi^2$ /NDF:2225.7/18

Right Out: 1.113 $\pm$ 0.060  $\chi^2$ /NDF: 887.6/17

Left In: 1.576 $\pm$ 0.037  $\chi^2$ /NDF:1901.5/17

Left: 1.757 $\pm$ 0.027  $\chi^2$ /NDF: 4181.8/36

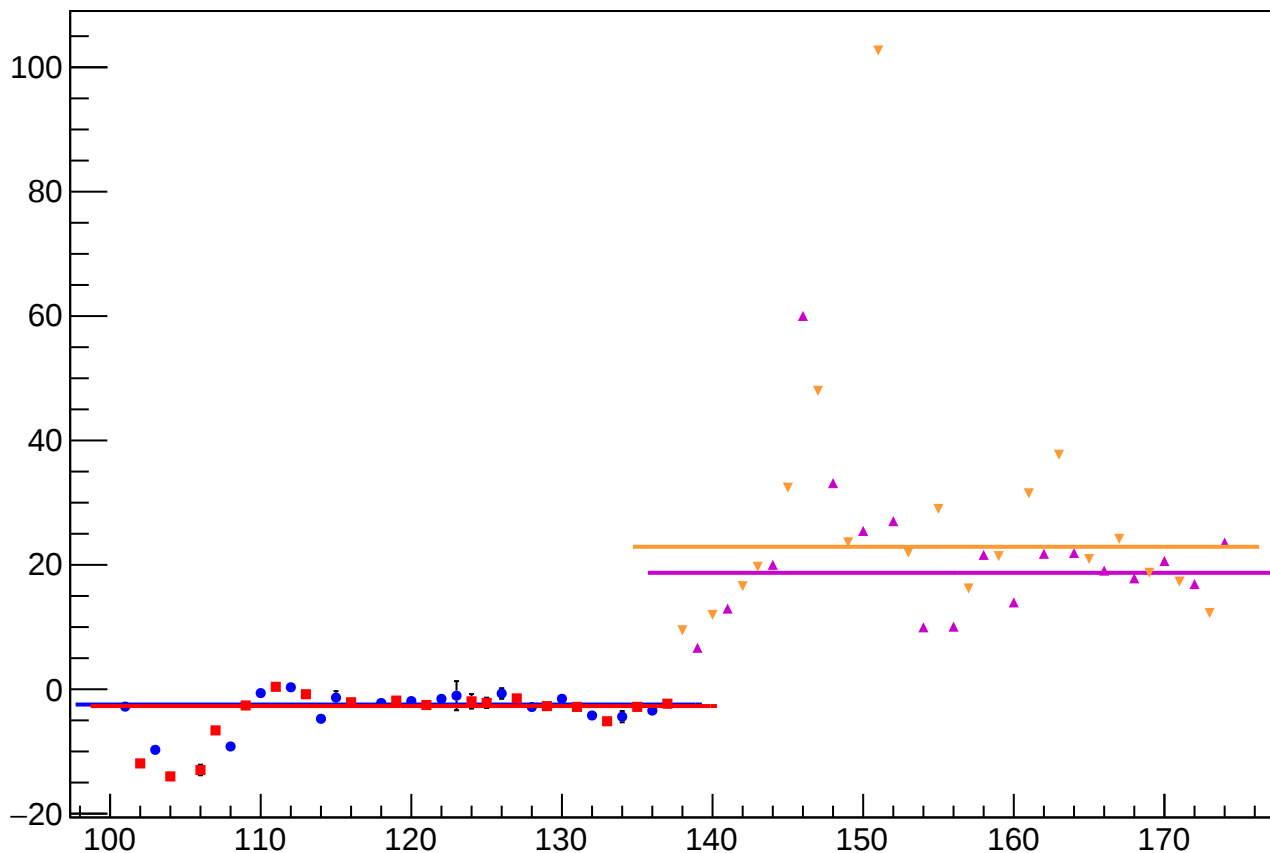
Right: 1.264 $\pm$ 0.043  $\chi^2$ /NDF: 1499.0/34

In: 1.539 $\pm$ 0.032  $\chi^2$ /NDF:2503.5/34

Out: 1.707 $\pm$ 0.034  $\chi^2$ /NDF:3256.5/36

All: 1.618 $\pm$ 0.023  $\chi^2$ /NDF: 5773.3/71

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:  $22.907 \pm 0.054$   $\chi^2/\text{NDF}$ : 54359.1/18

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

Left In:  $18.723 \pm 0.048$   $\chi^2/\text{NDF}$ : 35398.4/17

Left:  $20.568 \pm 0.036$   $\chi^2/\text{NDF}$ : 93064.0/36

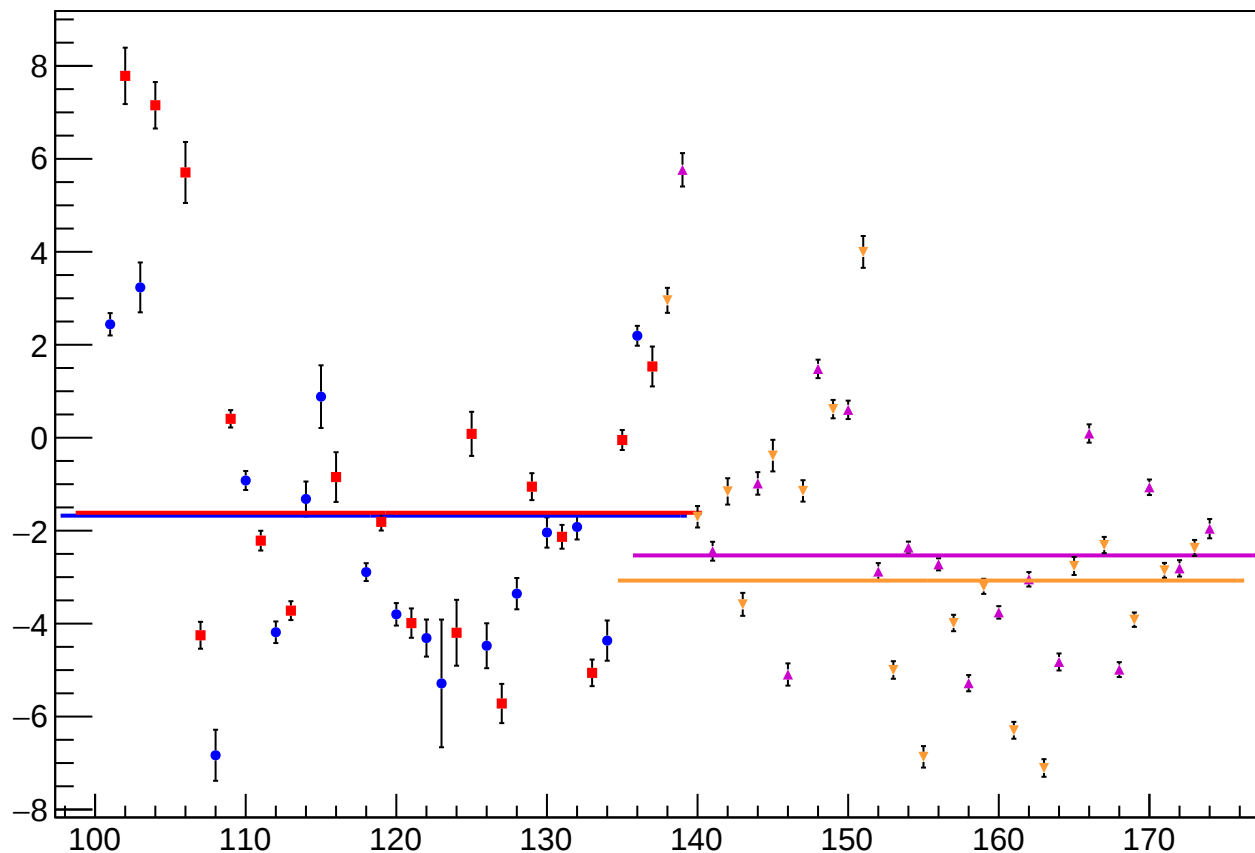
Right:  $-2.590 \pm 0.077$   $\chi^2/\text{NDF}$ : 1251.4/34

In:  $15.526 \pm 0.045$   $\chi^2/\text{NDF}$ : 64836.2/34

Out:  $17.368 \pm 0.048$   $\chi^2/\text{NDF}$ : 103101.2/36

All:  $16.374 \pm 0.033$   $\chi^2/\text{NDF}$ : 168726.4/71

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -1.677+/-0.072  $\chi^2/\text{NDF}$ : 1204.7/16

Left Out: -3.074+/-0.046  $\chi^2/\text{NDF}$ : 2733.9/18

Right Out: -1.615+/-0.068  $\chi^2/\text{NDF}$ : 1427.3/17

Left In: -2.533+/-0.041  $\chi^2/\text{NDF}$ : 2352.8/17

Left: -2.774+/-0.031  $\chi^2/\text{NDF}$ : 5163.0/36

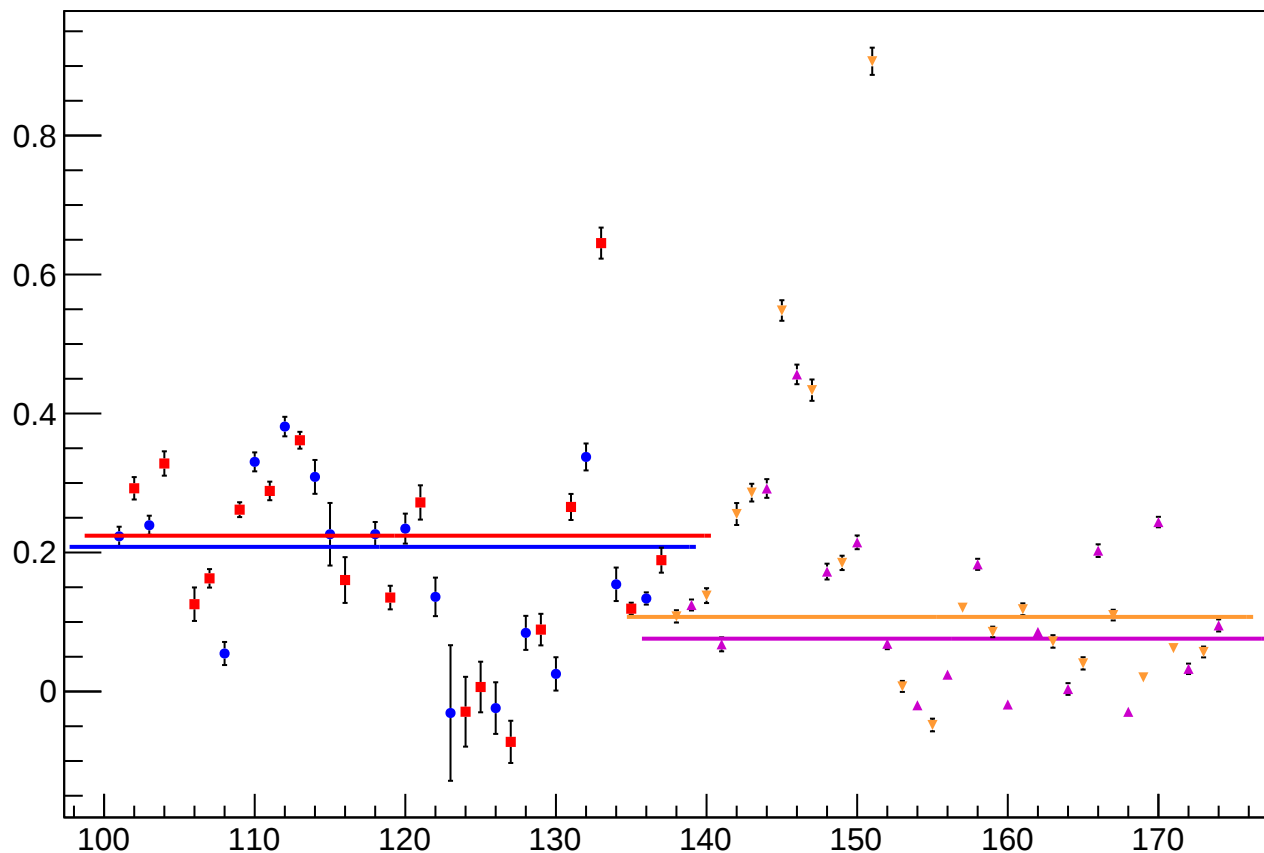
Right: -1.644+/-0.050  $\chi^2/\text{NDF}$ : 2632.5/34

In: -2.322+/-0.036  $\chi^2/\text{NDF}$ : 3662.8/34

Out: -2.615+/-0.038  $\chi^2/\text{NDF}$ : 4476.8/36

All: -2.460+/-0.026  $\chi^2/\text{NDF}$ : 8170.8/71

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.208 $\pm$ 0.004  $\chi^2$ /NDF: 600.2/16

Left Out: 0.107 $\pm$ 0.002  $\chi^2$ /NDF: 4130.6/18

Right Out: 0.224 $\pm$ 0.004  $\chi^2$ /NDF: 995.8/17

Left In: 0.076 $\pm$ 0.002  $\chi^2$ /NDF: 3230.6/17

Left: 0.090 $\pm$ 0.001  $\chi^2$ /NDF: 7491.8/36

Right: 0.217 $\pm$ 0.003  $\chi^2$ /NDF: 1603.8/34

In: 0.096 $\pm$ 0.002  $\chi^2$ /NDF: 4645.5/34

Out: 0.133 $\pm$ 0.002  $\chi^2$ /NDF: 5841.0/36

All: 0.113 $\pm$ 0.001  $\chi^2$ /NDF: 10716.8/71