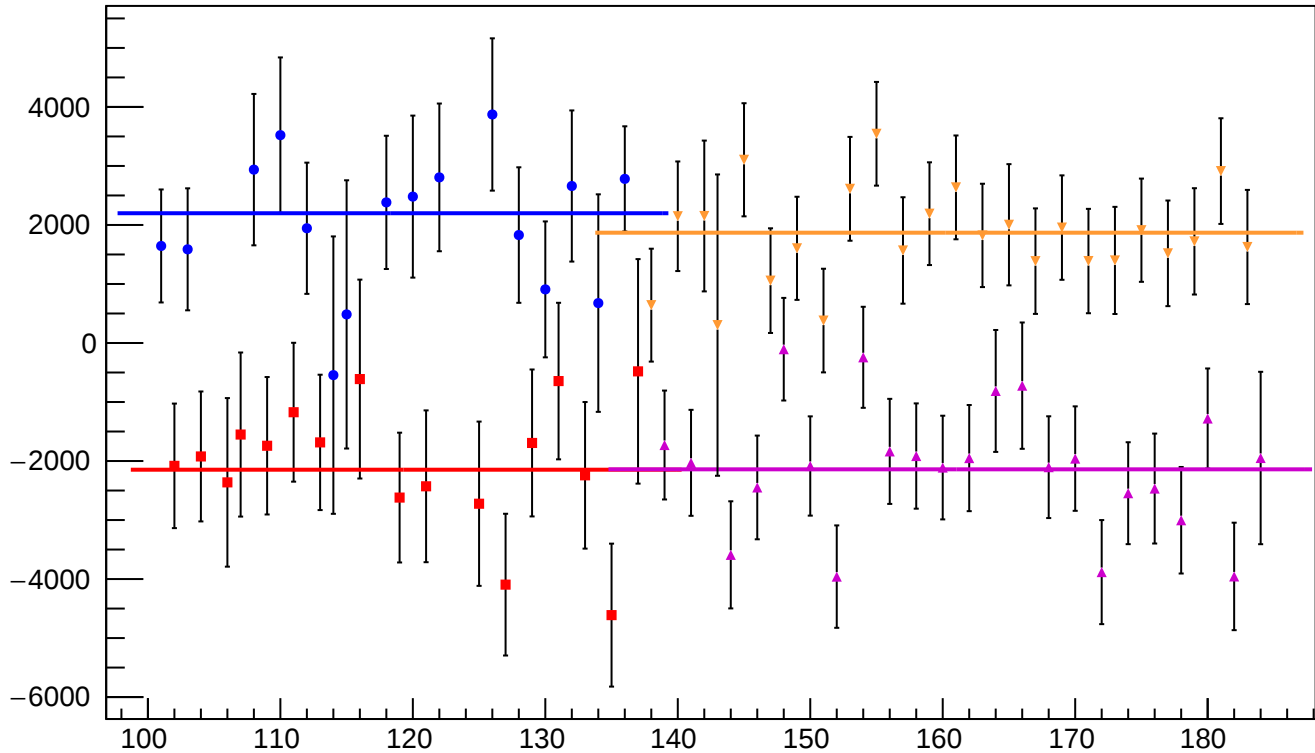


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2198.880 $\pm$ 306.767

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

+ sign 1960.260 $\pm$ 161.338

$\chi^2/\text{NDF}$ : 24.9/39

Left Out: 1869.020 $\pm$ 189.692

$\chi^2/\text{NDF}$ :15.5/23

All: -97.903 $\pm$ 113.895

$\chi^2/\text{NDF}$ : 392.3/79

Right Out: -2147.149 $\pm$ 304.804

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

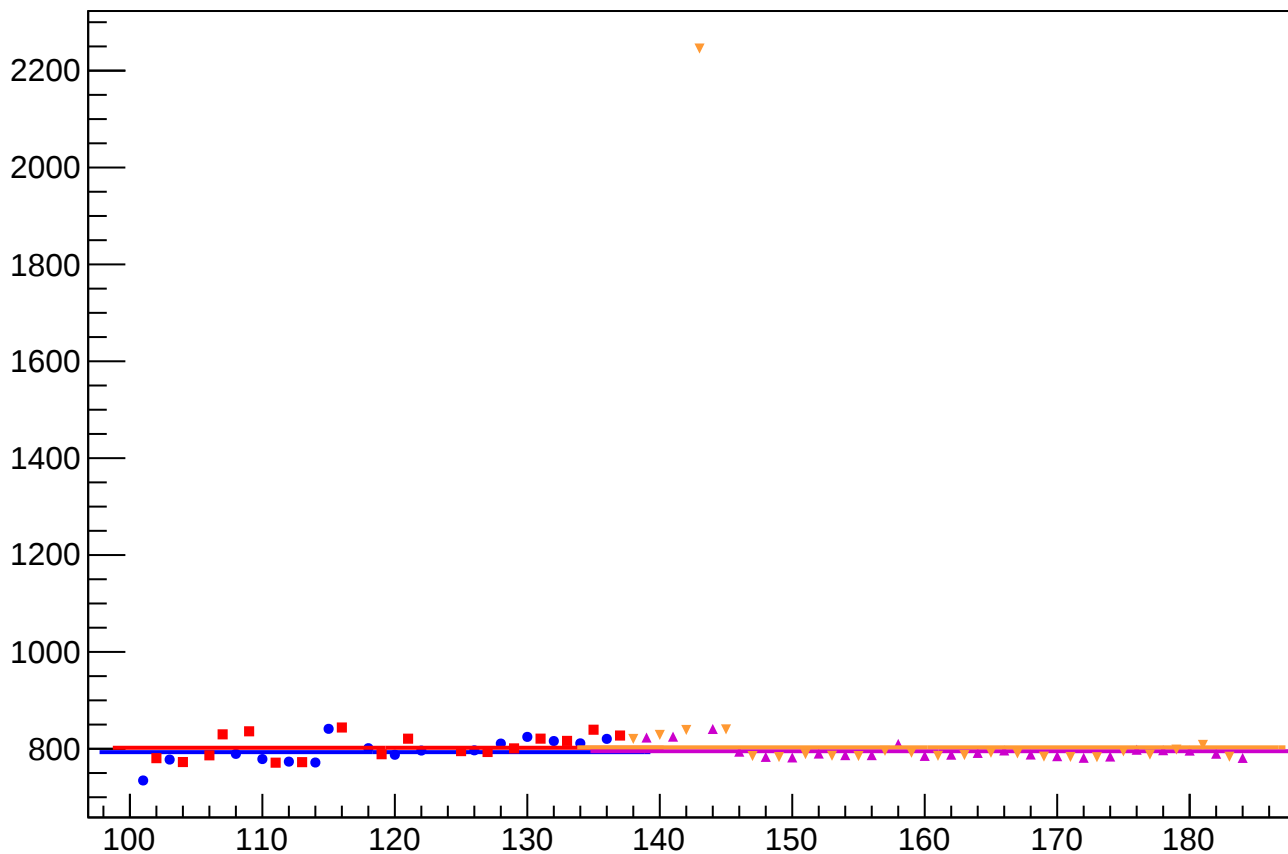
- sign -2142.558 $\pm$ 160.808

$\chi^2/\text{NDF}$ : 42.9/39

Left In: -2140.787 $\pm$ 189.296

$\chi^2/\text{NDF}$ :31.5/22

dit\_asym\_us\_avg\_rms vs Slug



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

Left Out: 803.030+/-0.134     $\chi^2/\text{NDF}$ : 656539.2/23

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

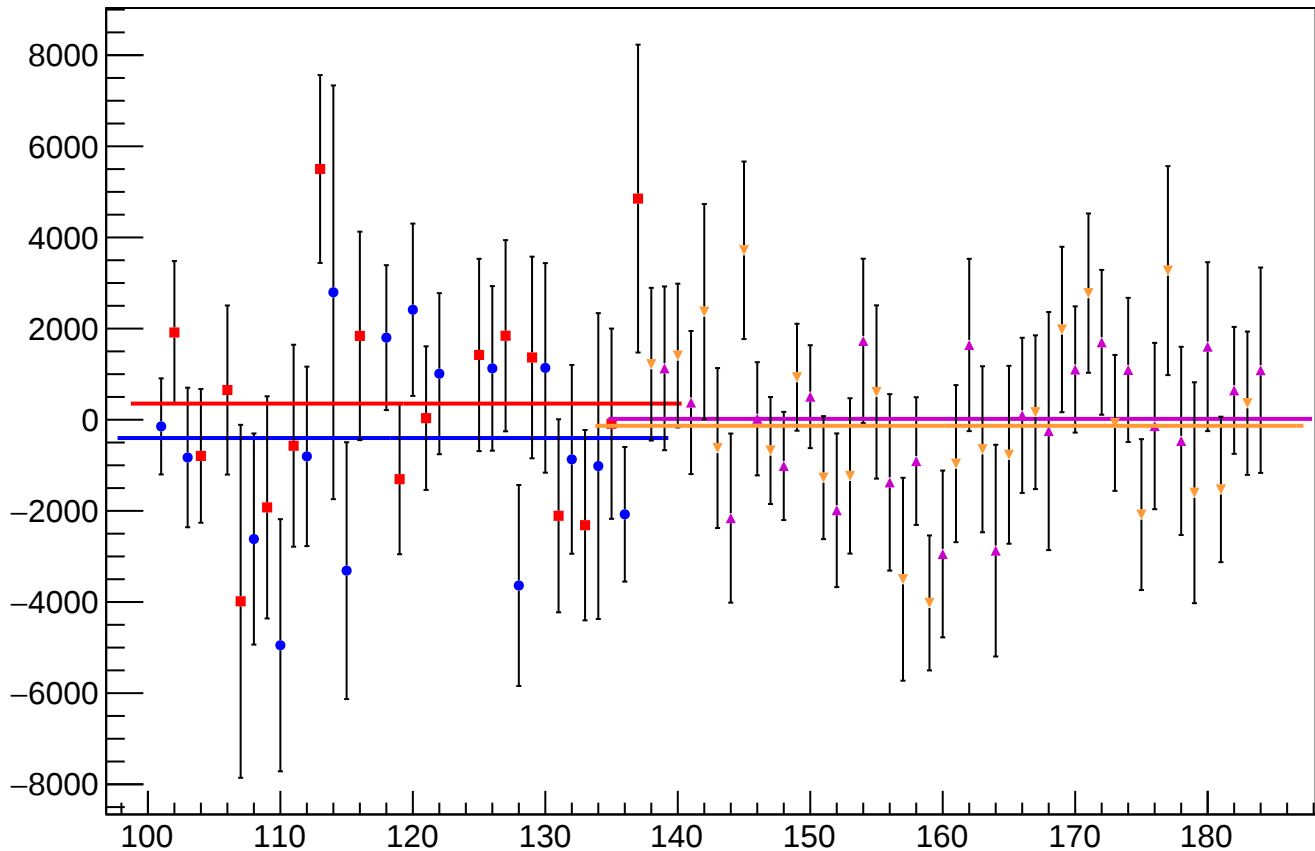
Left In: 795.046+/-0.134     $\chi^2/\text{NDF}$ : 12905.4/22

+ sign 800.281+/-0.114     $\chi^2/\text{NDF}$ : 672761.0/39

All: 798.646+/-0.081     $\chi^2/\text{NDF}$ : 699582.4/79

- sign 797.023+/-0.114     $\chi^2/\text{NDF}$ : 26412.4/39

# asym\_us\_avg\_correction\_mean vs Slug



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

Left Out:  $-133.078 \pm 339.805$   $\chi^2/\text{NDF}$ : 27.6/23

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

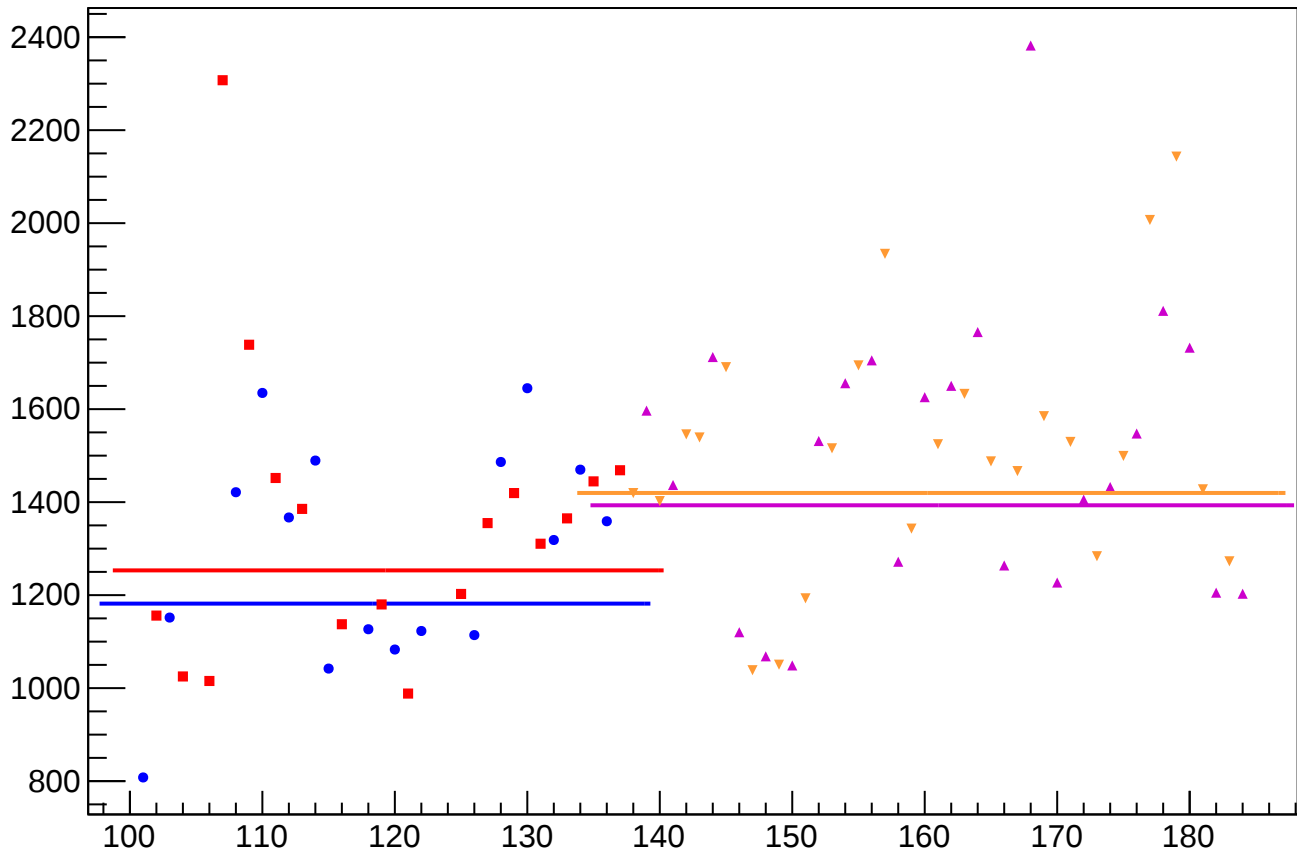
Left In:  $18.629 \pm 339.158$   $\chi^2/\text{NDF}$ : 14.4/22

+ sign  $-225.552 \pm 275.104$   $\chi^2/\text{NDF}$ : 42.7/39

All:  $-50.546 \pm 195.623$   $\chi^2/\text{NDF}$ : 75.6/79

- sign  $128.457 \pm 278.227$   $\chi^2/\text{NDF}$ : 32.1/39

# asym\_us\_avg\_correction\_rms vs Slug



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

Left Out: 1419.758 $\pm$ 0.240  $\chi^2$ /NDF: 1090521.2/23

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

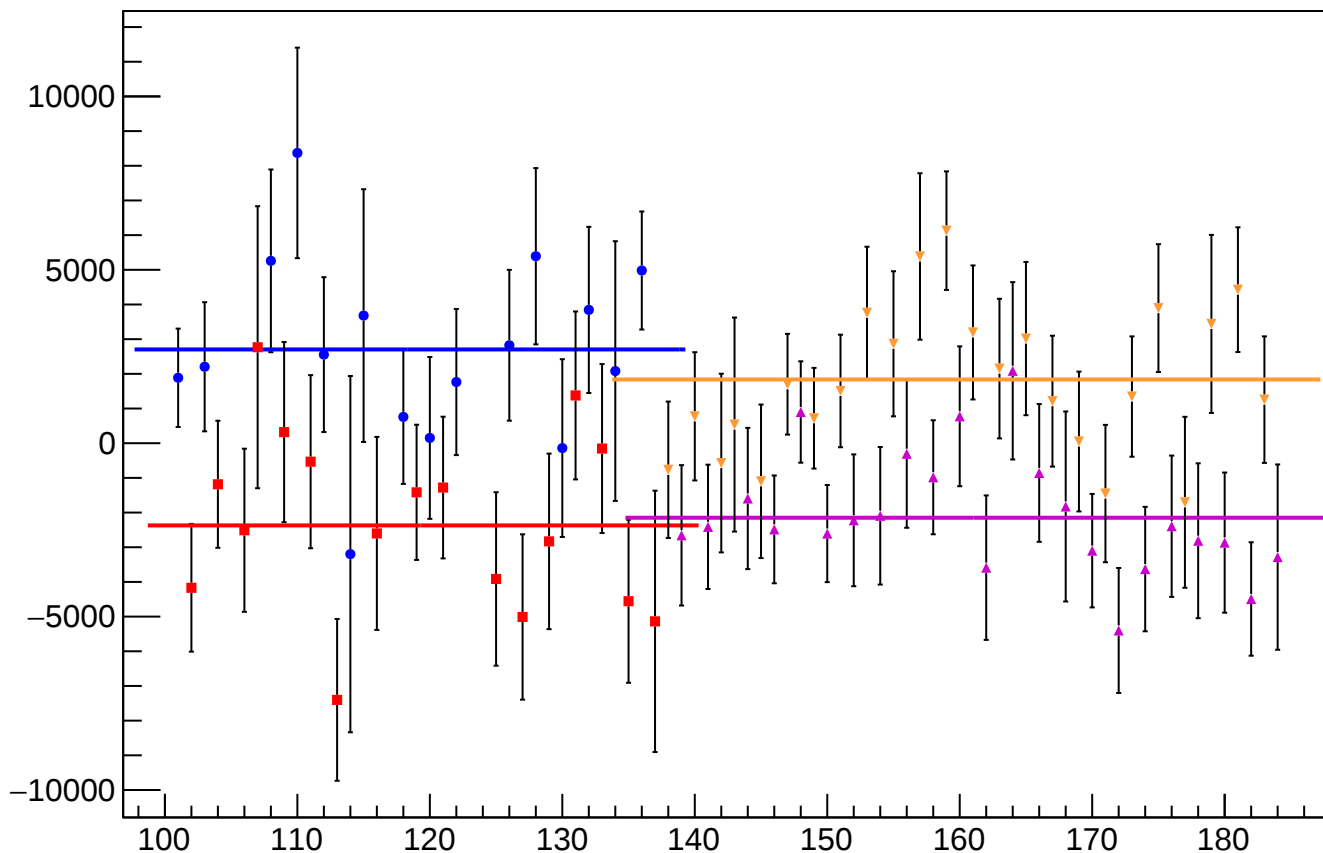
Left In: 1393.228 $\pm$ 0.240  $\chi^2$ /NDF: 1304180.4/22

+ sign 1337.756 $\pm$ 0.195  $\chi^2$ /NDF: 1972043.8/39

All: 1342.544 $\pm$ 0.138  $\chi^2$ /NDF: 3844547.8/79

- sign 1347.441 $\pm$ 0.197  $\chi^2$ /NDF: 1871278.7/39

# asym\_us\_avg\_mean vs Slug



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

Left Out: 1837.845+/-394.907  $\chi^2/\text{NDF}$ : 25.7/23

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

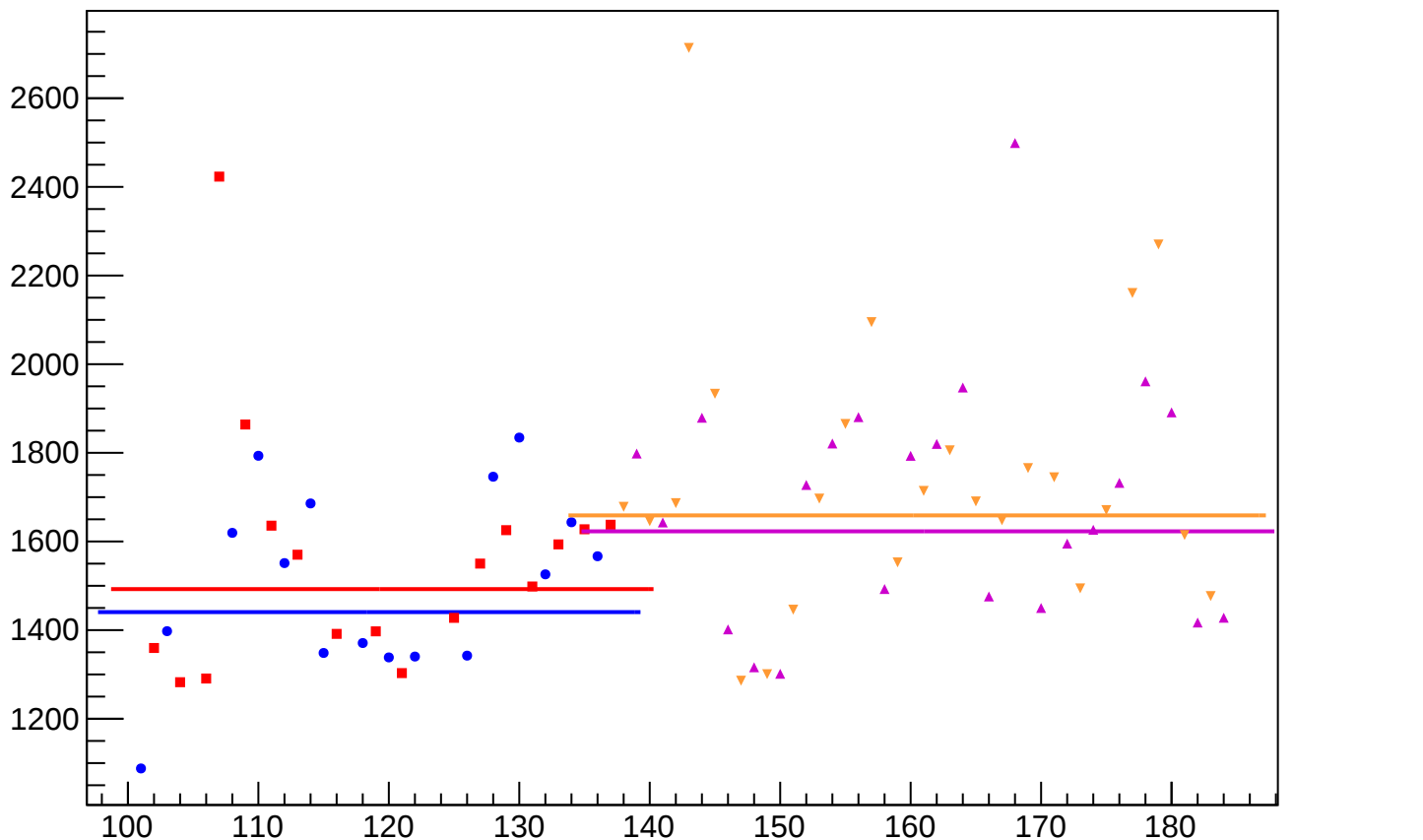
Left In: -2148.867+/-391.716  $\chi^2/\text{NDF}$ : 18.4/22

+ sign 2122.347+/-323.587  $\chi^2/\text{NDF}$ : 40.3/39

All: -49.381+/-228.766  $\chi^2/\text{NDF}$ : 164.9/79

- sign -2219.412+/-323.461  $\chi^2/\text{NDF}$ : 34.6/39

# asym\_us\_avg\_rms vs Slug



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

Left Out: 1658.850+/-0.279  $\chi^2/\text{NDF}$ : 904342.3/23

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

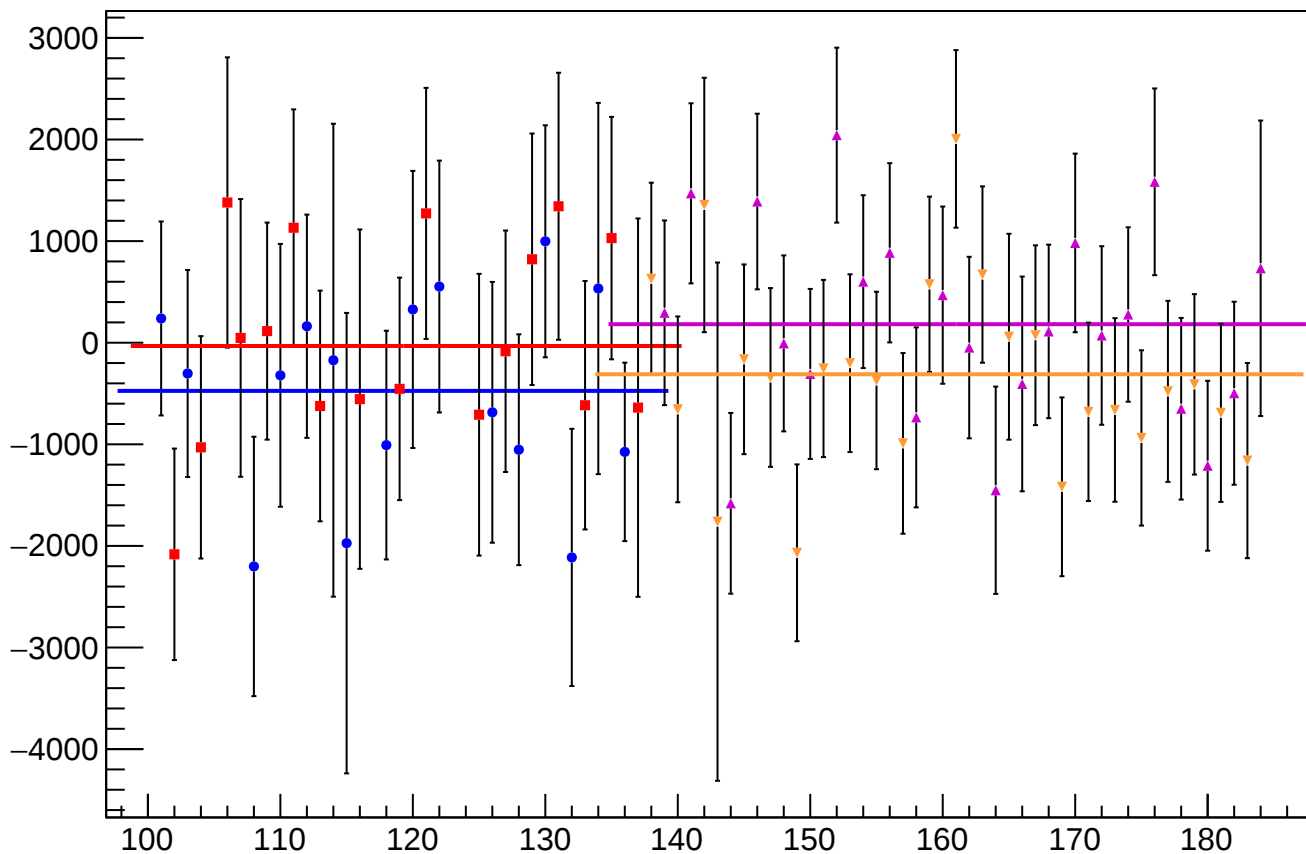
Left In: 1622.876+/-0.277  $\chi^2/\text{NDF}$ : 780522.2/22

+ sign 1587.154+/-0.229  $\chi^2/\text{NDF}$ : 1387229.7/39

All: 1584.280+/-0.162  $\chi^2/\text{NDF}$ : 2490025.3/79

- sign 1581.409+/-0.229  $\chi^2/\text{NDF}$ : 1102480.2/39

# dit\_asym\_us\_dd\_mean vs Slug



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

Left Out:  $-310.493 \pm 187.769$   $\chi^2/\text{NDF}$ : 21.1/23

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

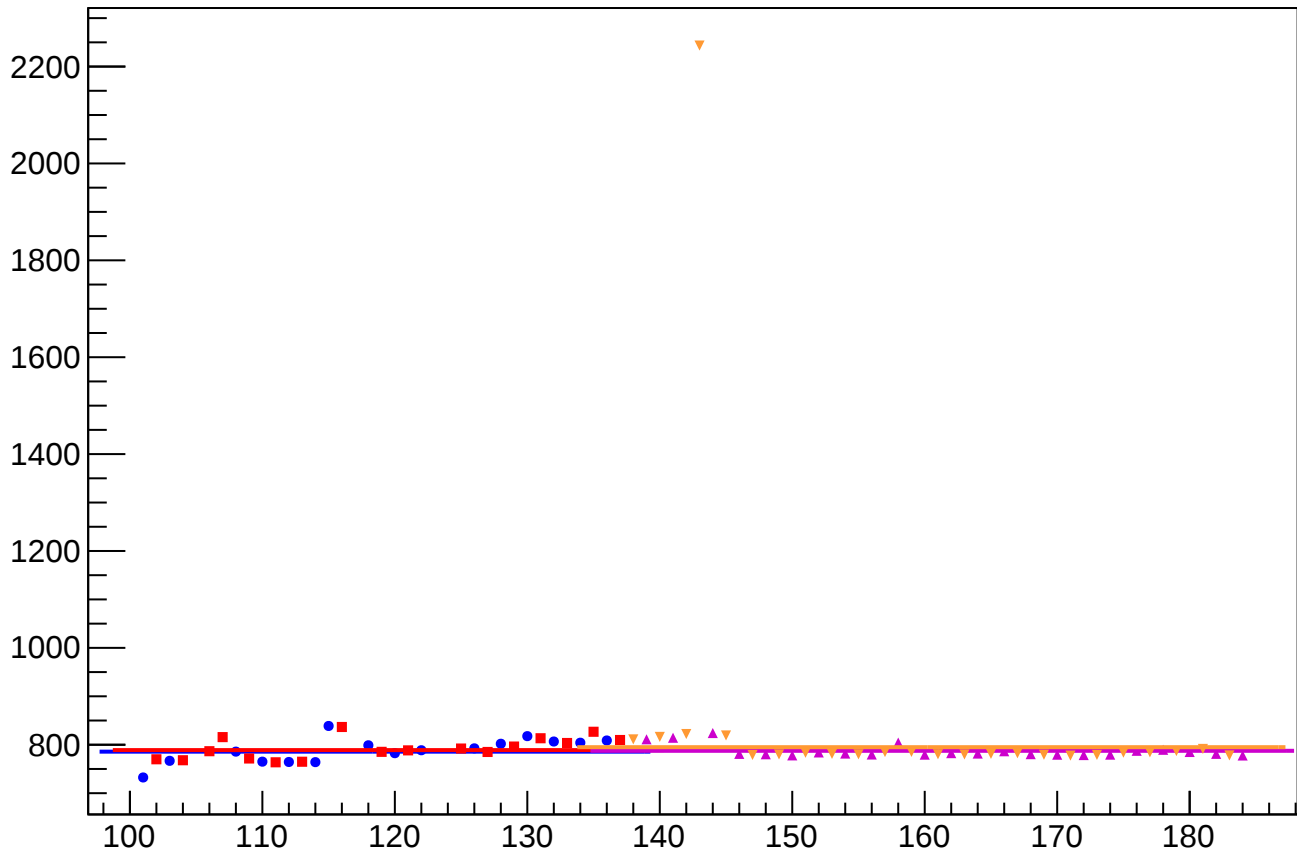
Left In:  $182.204 \pm 187.476$   $\chi^2/\text{NDF}$ : 25.6/22

+ sign  $-355.702 \pm 159.740$   $\chi^2/\text{NDF}$ : 30.2/39

All:  $-115.730 \pm 112.665$   $\chi^2/\text{NDF}$ : 71.9/79

- sign  $121.805 \pm 158.927$   $\chi^2/\text{NDF}$ : 37.3/39

# dit\_asym\_us\_dd\_rms vs Slug



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

Left Out: 794.957 $\pm$ 0.133     $\chi^2$ /NDF: 657551.1/23

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

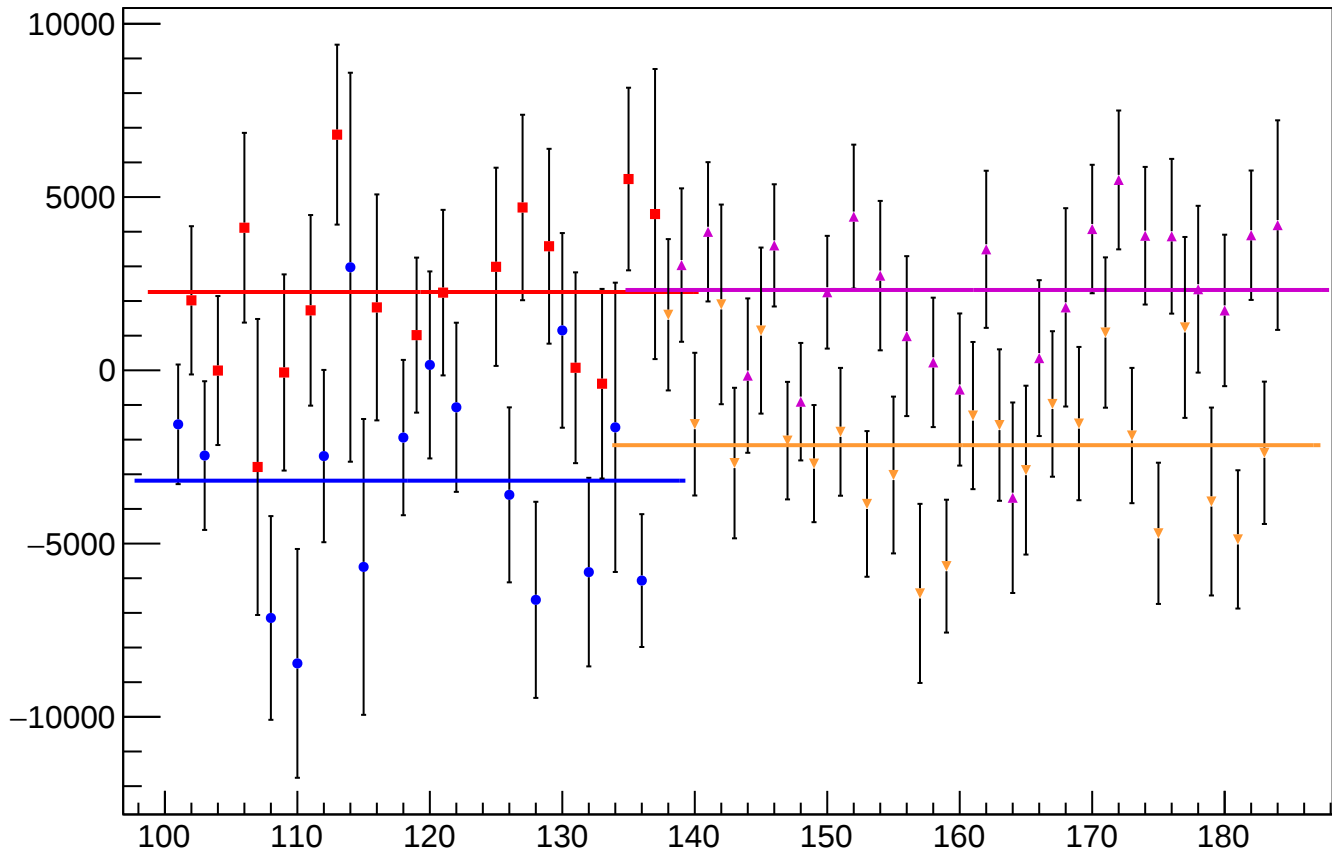
Left In: 787.487 $\pm$ 0.133     $\chi^2$ /NDF: 9284.4/22

+ sign 792.412 $\pm$ 0.113     $\chi^2$ /NDF: 672802.2/39

All: 790.142 $\pm$ 0.080     $\chi^2$ /NDF: 692448.8/79

- sign 787.896 $\pm$ 0.112     $\chi^2$ /NDF: 18843.2/39

# asym\_us\_dd\_correction\_mean vs Slug



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

Left Out:  $-2160.253 \pm 434.182$   $\chi^2/\text{NDF}$ : 22.5/23

Right Out:  $2260.241 \pm 651.957$   $\chi^2/\text{NDF}$ : 11.6/16

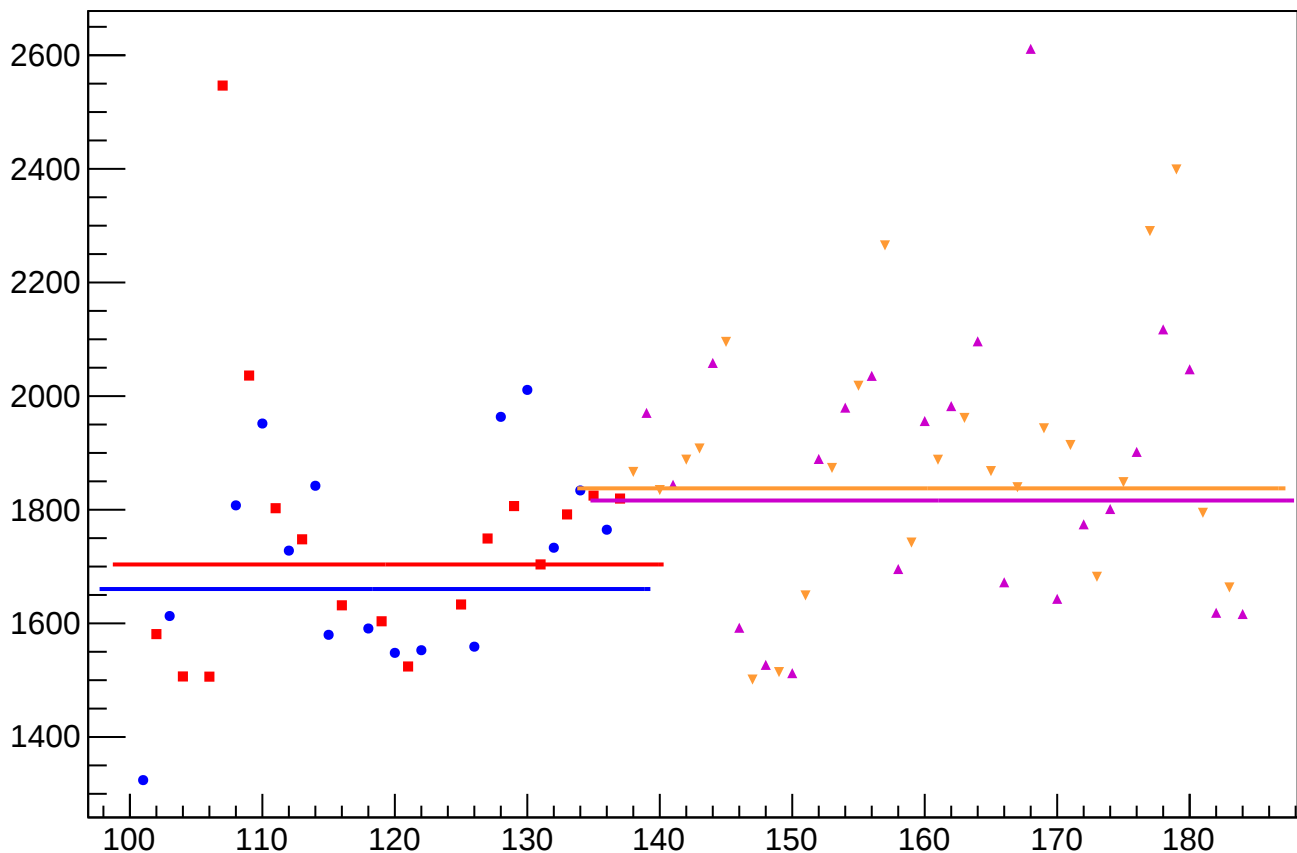
Left In:  $2318.636 \pm 436.503$   $\chi^2/\text{NDF}$ : 22.1/22

+ sign  $-2478.047 \pm 360.589$   $\chi^2/\text{NDF}$ : 41.0/39

All:  $-102.774 \pm 255.723$   $\chi^2/\text{NDF}$ : 162.0/79

- sign  $2300.562 \pm 362.713$   $\chi^2/\text{NDF}$ : 33.6/39

# asym\_us\_dd\_correction\_rms vs Slug



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

Left Out: 1837.663 $\pm$ 0.307  $\chi^2$ /NDF: 461040.0/23

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

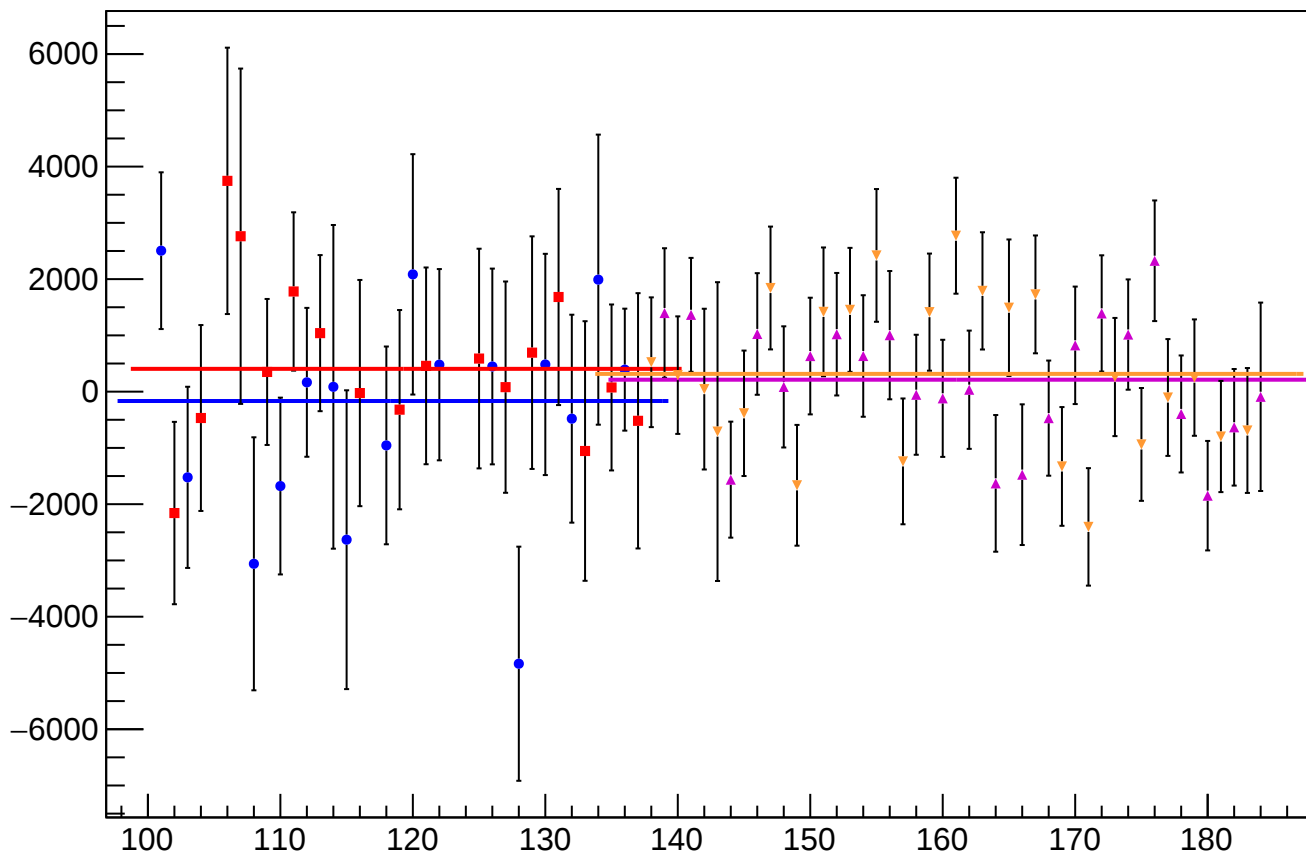
Left In: 1816.261 $\pm$ 0.309  $\chi^2$ /NDF: 542704.9/22

+ sign 1782.684 $\pm$ 0.255  $\chi^2$ /NDF: 743606.6/39

All: 1782.053 $\pm$ 0.181  $\chi^2$ /NDF: 1498528.4/79

- sign 1781.415 $\pm$ 0.256  $\chi^2$ /NDF: 754909.4/39

# asym\_us\_dd\_mean vs Slug



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

Left Out:  $315.608 \pm 225.244$   $\chi^2/\text{NDF}$ : 37.7/23

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

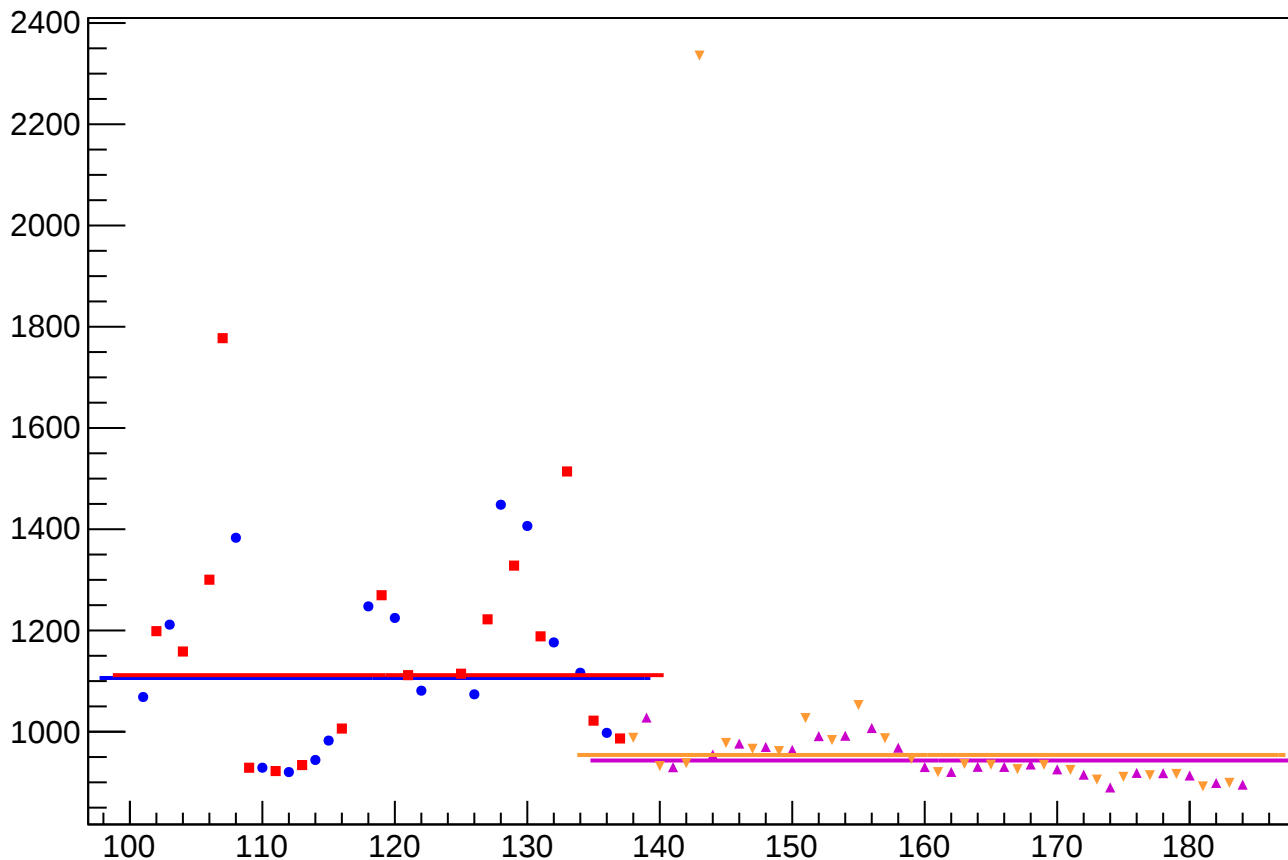
Left In:  $212.080 \pm 224.701$   $\chi^2/\text{NDF}$ : 23.7/22

+ sign  $212.843 \pm 199.793$   $\chi^2/\text{NDF}$ : 54.3/39

All:  $233.368 \pm 140.998$   $\chi^2/\text{NDF}$ : 86.1/79

- sign  $253.732 \pm 199.011$   $\chi^2/\text{NDF}$ : 31.8/39

# asym\_us\_dd\_rms vs Slug



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

Left Out: 954.083+/-0.159  $\chi^2/\text{NDF}$ : 604284.7/23

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

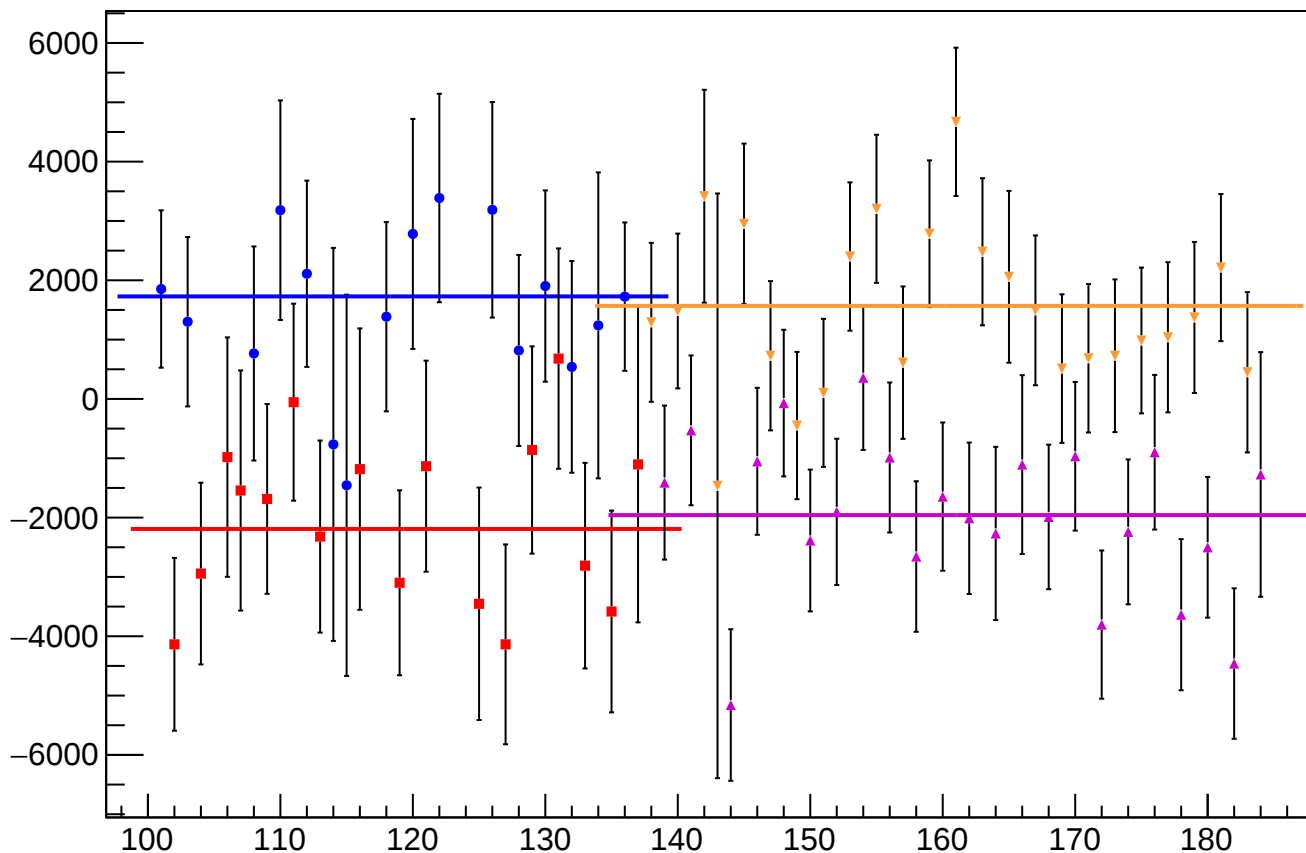
Left In: 943.137+/-0.159  $\chi^2/\text{NDF}$ : 49948.2/22

+ sign 986.509+/-0.141  $\chi^2/\text{NDF}$ : 1058590.0/39

All: 982.982+/-0.100  $\chi^2/\text{NDF}$ : 1708883.2/79

- sign 979.482+/-0.141  $\chi^2/\text{NDF}$ : 649051.2/39

# dit\_asym\_usl\_mean vs Slug



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

Left Out: 1568.927 $\pm$ 268.370  $\chi^2$ /NDF:20.5/23

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

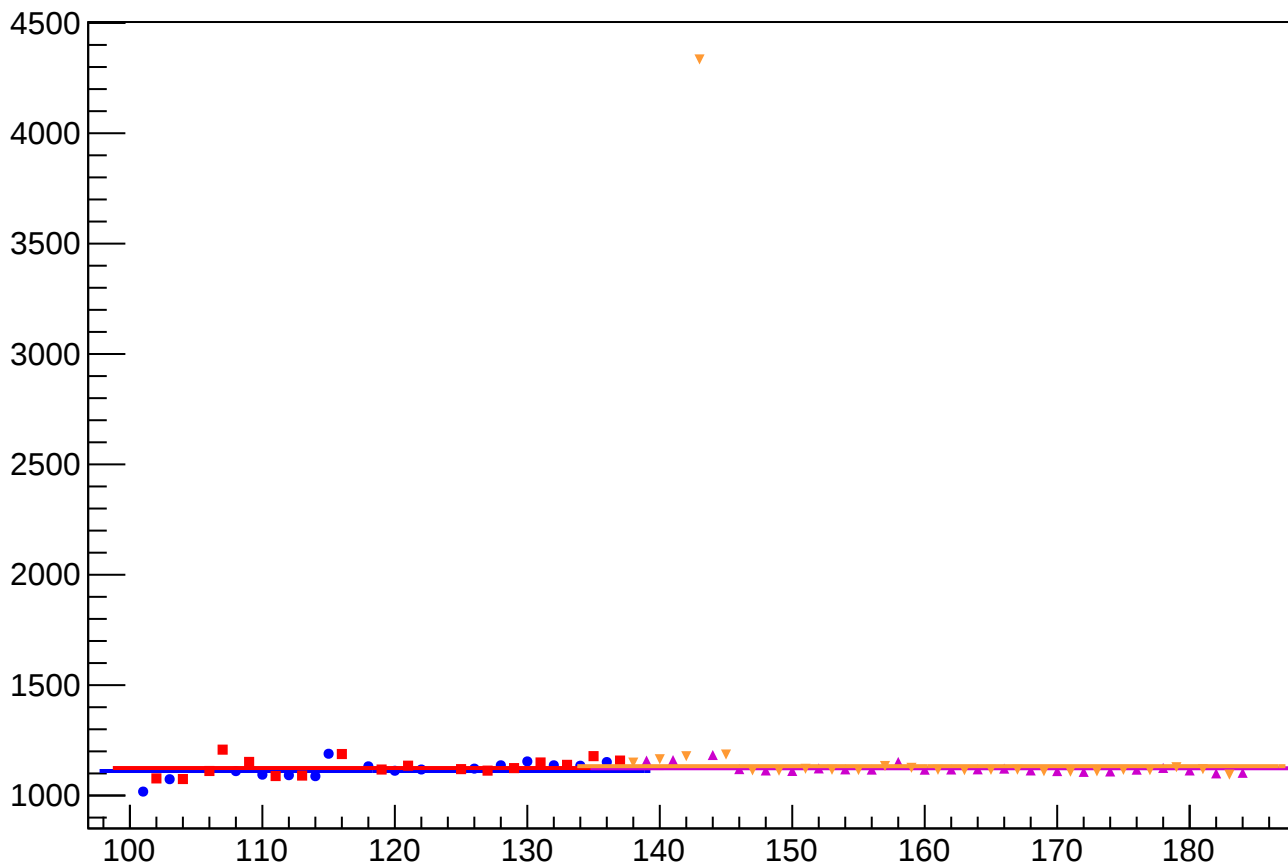
Left In: -1957.687 $\pm$ 267.470  $\chi^2$ /NDF:25.1/22

+ sign 1613.679 $\pm$ 227.638  $\chi^2$ /NDF: 25.9/39

All: -212.320 $\pm$ 160.634  $\chi^2$ /NDF: 190.2/79

- sign -2023.378 $\pm$ 226.705  $\chi^2$ /NDF: 36.2/39

# dit\_asym\_usl\_rms vs Slug



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

Left Out: 1132.968 $\pm$ 0.190  $\chi^2$ /NDF: 858190.7/23

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

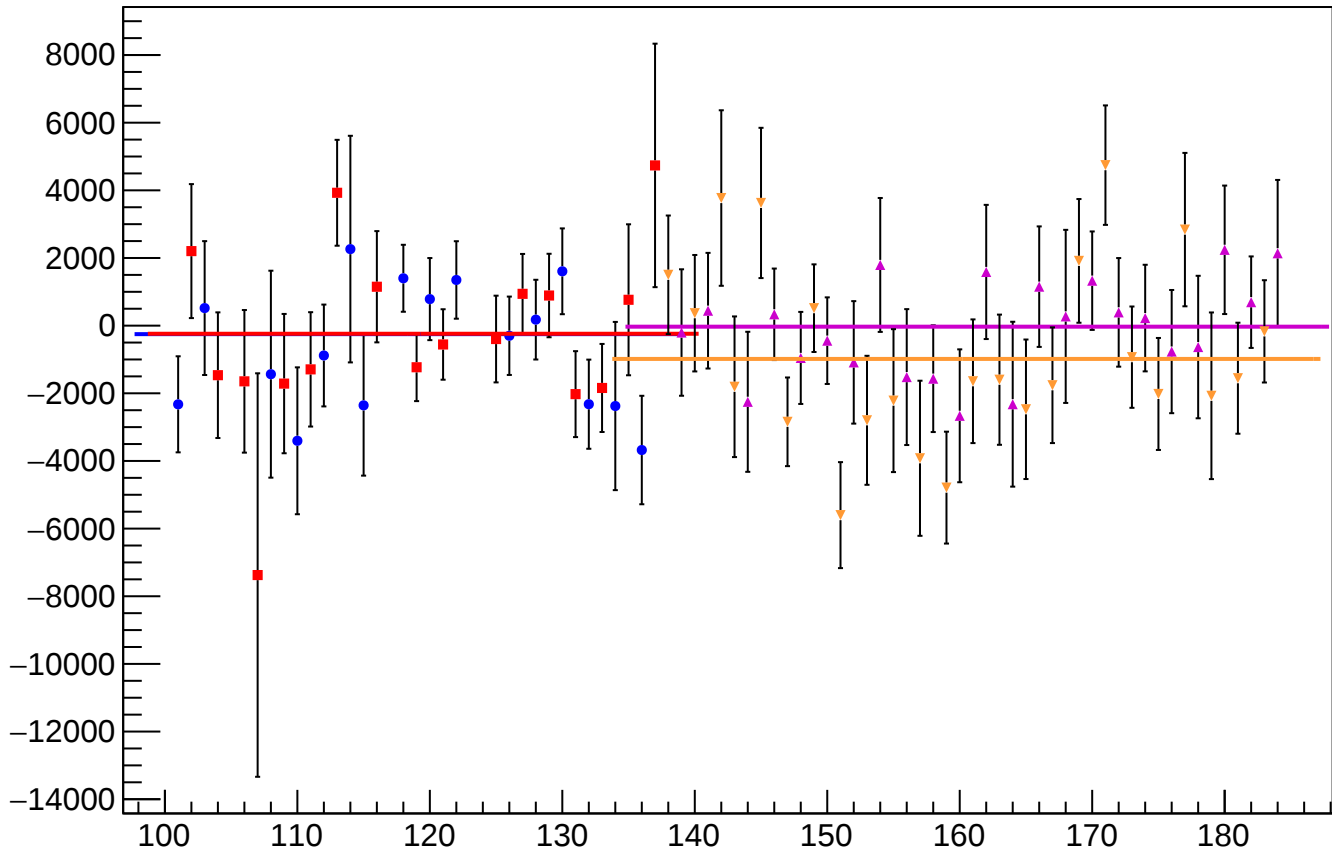
Left In: 1123.430 $\pm$ 0.189  $\chi^2$ /NDF: 11176.4/22

+ sign 1126.817 $\pm$ 0.161  $\chi^2$ /NDF: 880026.4/39

All: 1125.270 $\pm$ 0.114  $\chi^2$ /NDF: 905996.9/79

- sign 1123.736 $\pm$ 0.160  $\chi^2$ /NDF: 25786.4/39

# asym\_usl\_correction\_mean vs Slug



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

Left Out: -983.830+/-361.996  $\chi^2/\text{NDF}$ : 48.5/23

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

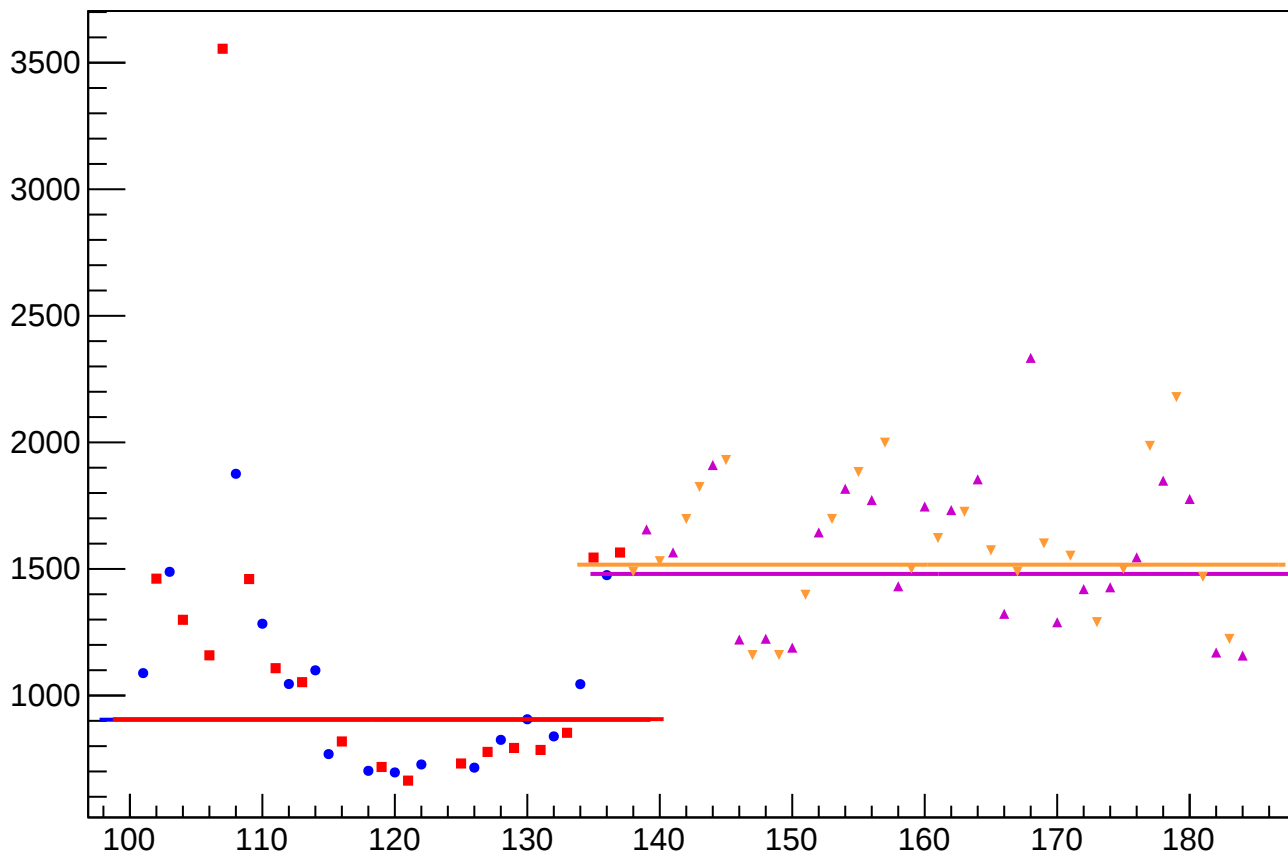
Left In: -30.596+/-359.328  $\chi^2/\text{NDF}$ : 12.3/22

+ sign -620.556+/-257.008  $\chi^2/\text{NDF}$ : 72.4/39

All: -375.964+/-181.255  $\chi^2/\text{NDF}$ : 107.7/79

- sign -133.924+/-255.664  $\chi^2/\text{NDF}$ : 33.5/39

# asym\_usl\_correction\_rms vs Slug



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

Left Out: 1516.956+/-0.256  $\chi^2/\text{NDF}$ : 992209.9/23

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

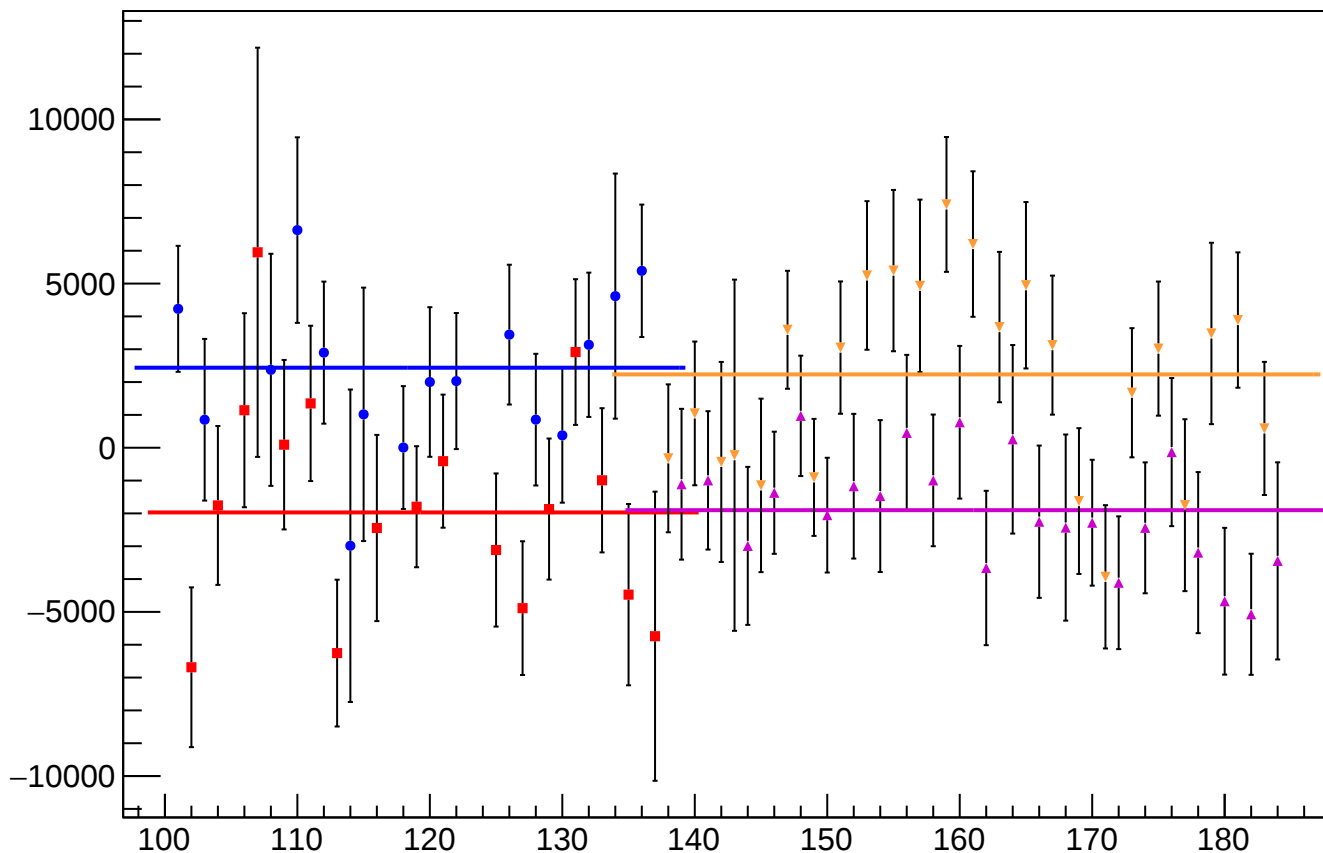
Left In: 1480.347+/-0.254  $\chi^2/\text{NDF}$ : 1131004.9/22

+ sign 1213.212+/-0.182  $\chi^2/\text{NDF}$ : 4852624.6/39

All: 1205.089+/-0.128  $\chi^2/\text{NDF}$ : 9881423.5/79

- sign 1197.051+/-0.181  $\chi^2/\text{NDF}$ : 5024824.2/39

# asym\_usl\_mean vs Slug



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

Left Out:  $2233.512 \pm 459.045$   $\chi^2/\text{NDF}: 38.9/23$

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

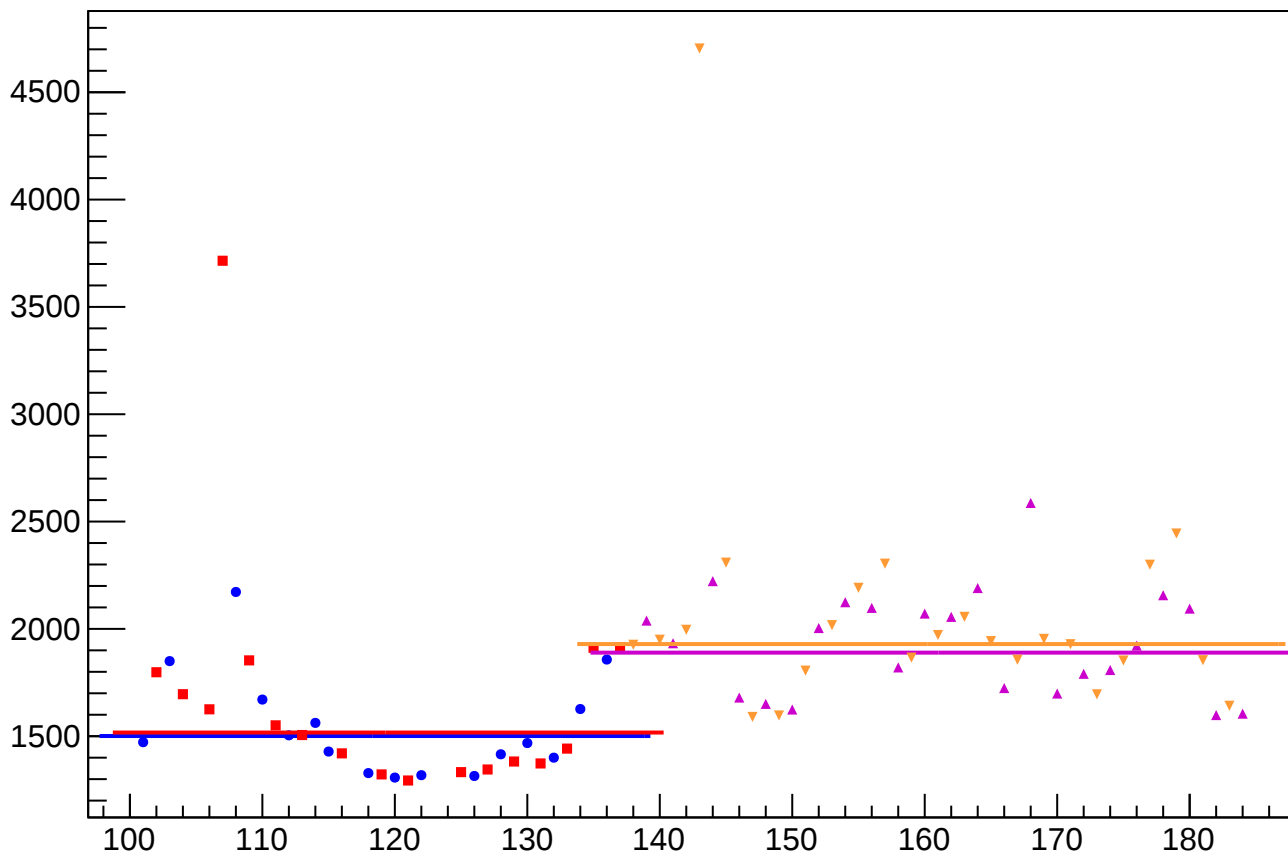
Left In:  $-1901.797 \pm 453.879$   $\chi^2/\text{NDF}: 13.9/22$

+ sign  $2311.051 \pm 361.424$   $\chi^2/\text{NDF}: 50.1/39$

All:  $177.426 \pm 254.699$   $\chi^2/\text{NDF}: 155.5/79$

- sign  $-1927.501 \pm 358.985$   $\chi^2/\text{NDF}: 36.2/39$

# asym\_usl\_rms vs Slug



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

Left Out: 1929.281+/-0.325  $\chi^2/\text{NDF}$ : 990624.2/23

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

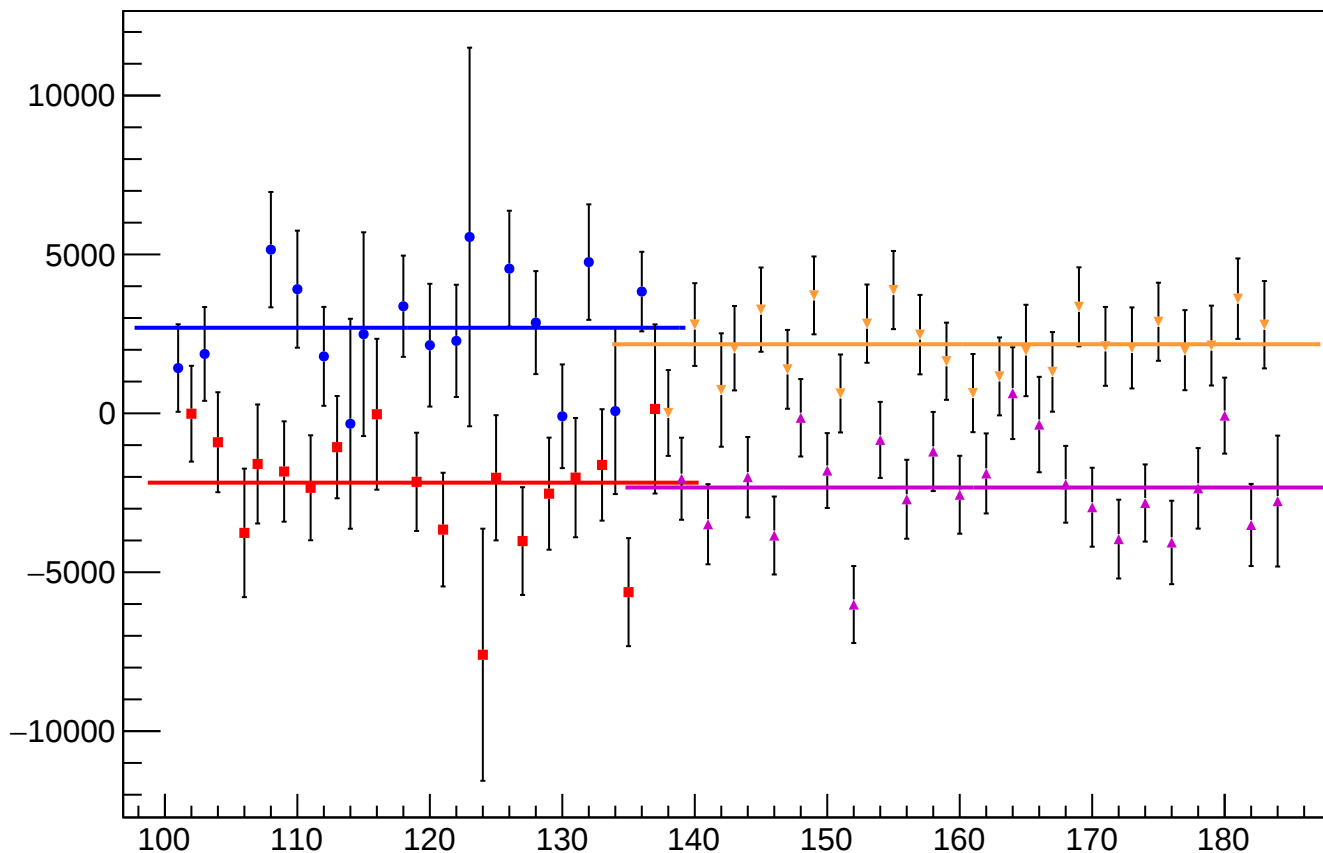
Left In: 1889.326+/-0.321  $\chi^2/\text{NDF}$ : 508648.5/22

+ sign 1766.427+/-0.256  $\chi^2/\text{NDF}$ : 1909095.7/39

All: 1758.138+/-0.180  $\chi^2/\text{NDF}$ : 3398489.4/79

- sign 1749.960+/-0.254  $\chi^2/\text{NDF}$ : 1487303.8/39

# dit\_asym\_usr\_mean vs Slug



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

Left Out: 2174.275 $\pm$ 261.296  $\chi^2$ /NDF:15.6/23

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

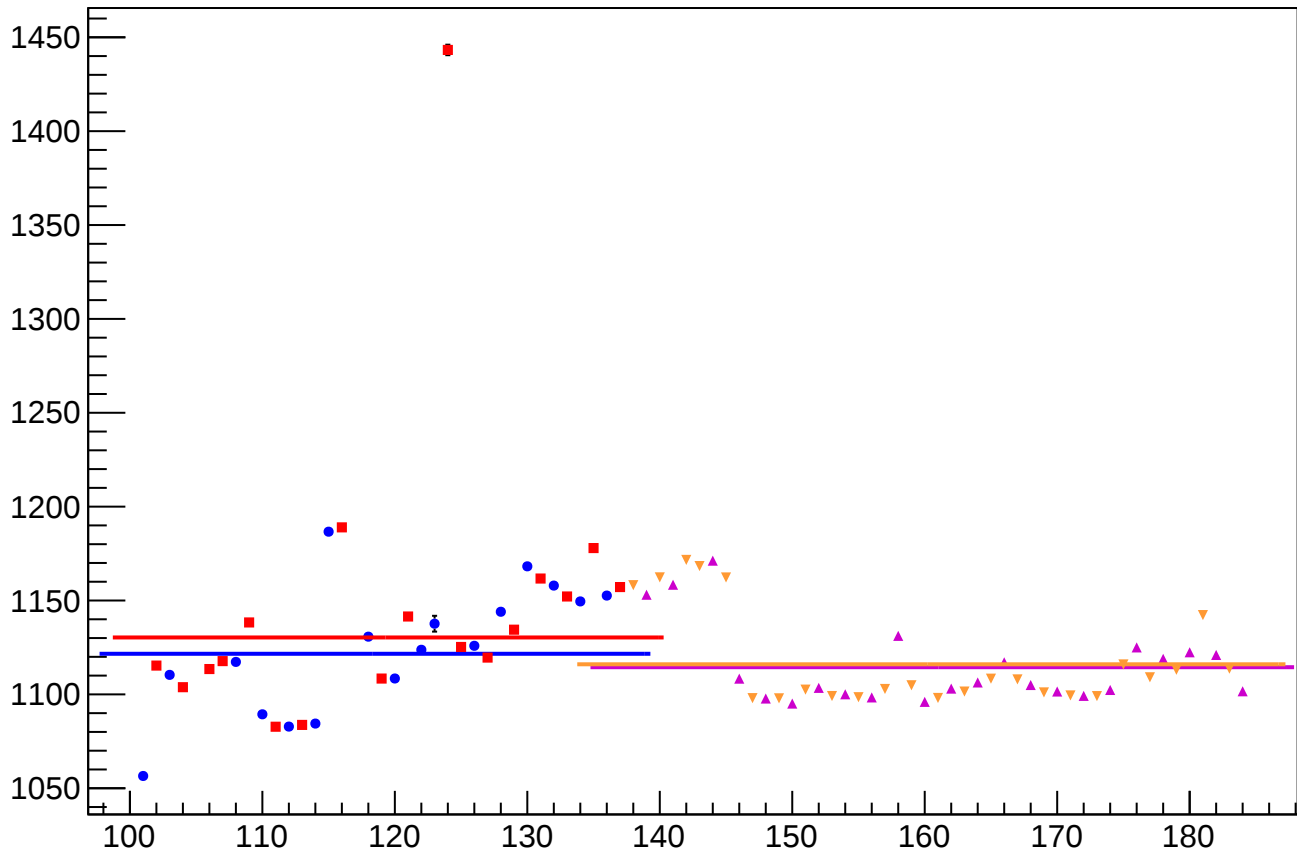
Left In: -2333.582 $\pm$ 265.340  $\chi^2$ /NDF:32.1/22

+ sign 2312.927 $\pm$ 223.665  $\chi^2$ /NDF: 28.9/40

All: 26.199 $\pm$ 158.675  $\chi^2$ /NDF: 285.1/81

- sign -2290.848 $\pm$ 225.143  $\chi^2$ /NDF: 45.7/40

# dit\_asym\_usr\_rms vs Slug



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

Left Out: 1116.026 $\pm$ 0.185  $\chi^2$ /NDF: 17011.8/23

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

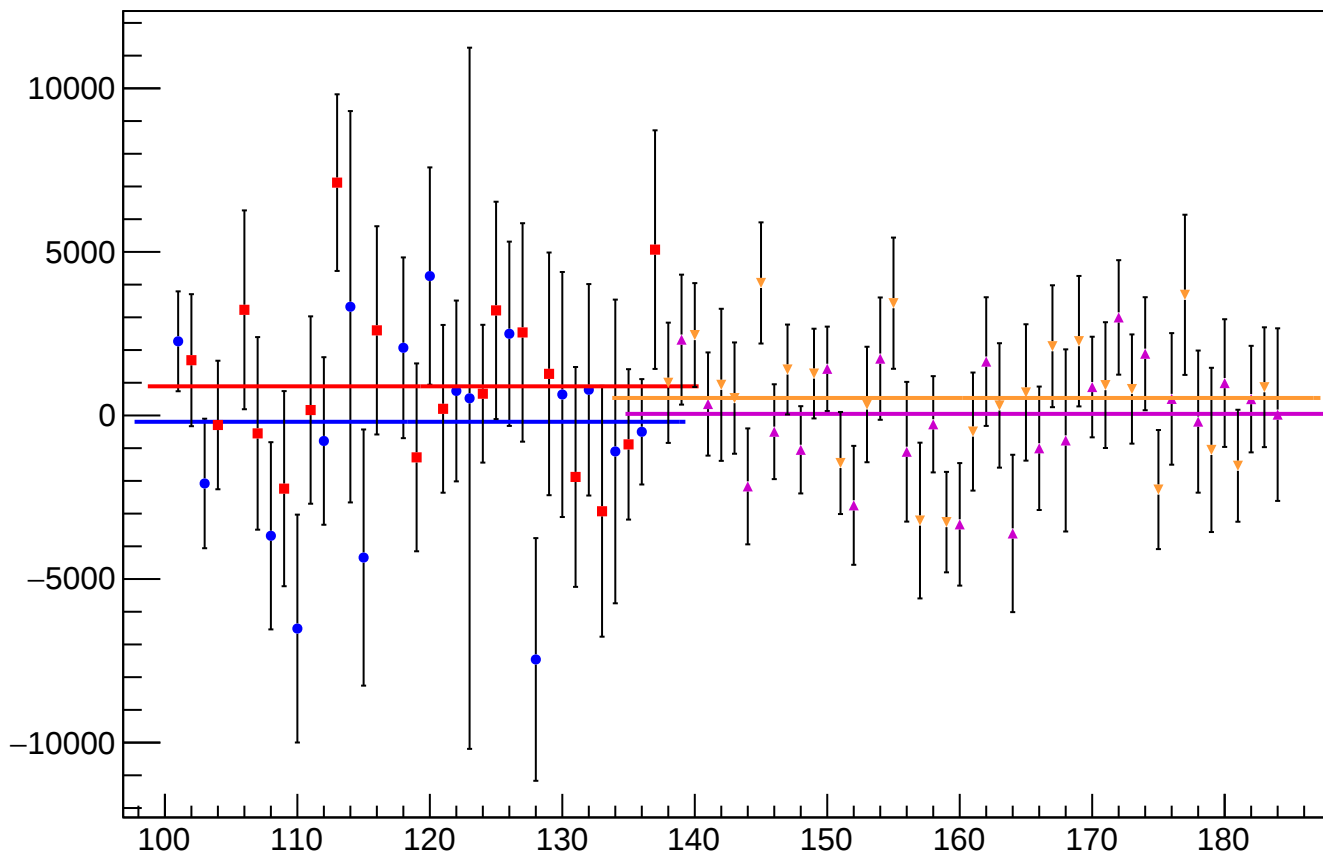
Left In: 1114.473 $\pm$ 0.188  $\chi^2$ /NDF: 12263.8/22

+ sign 1117.523 $\pm$ 0.158  $\chi^2$ /NDF: 29237.6/40

All: 1118.212 $\pm$ 0.112  $\chi^2$ /NDF: 64812.3/81

- sign 1118.910 $\pm$ 0.159  $\chi^2$ /NDF: 35536.6/40

# asym\_usr\_correction\_mean vs Slug



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

Left Out: 535.202+/-367.440  $\chi^2/\text{NDF}$ : 26.0/23

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

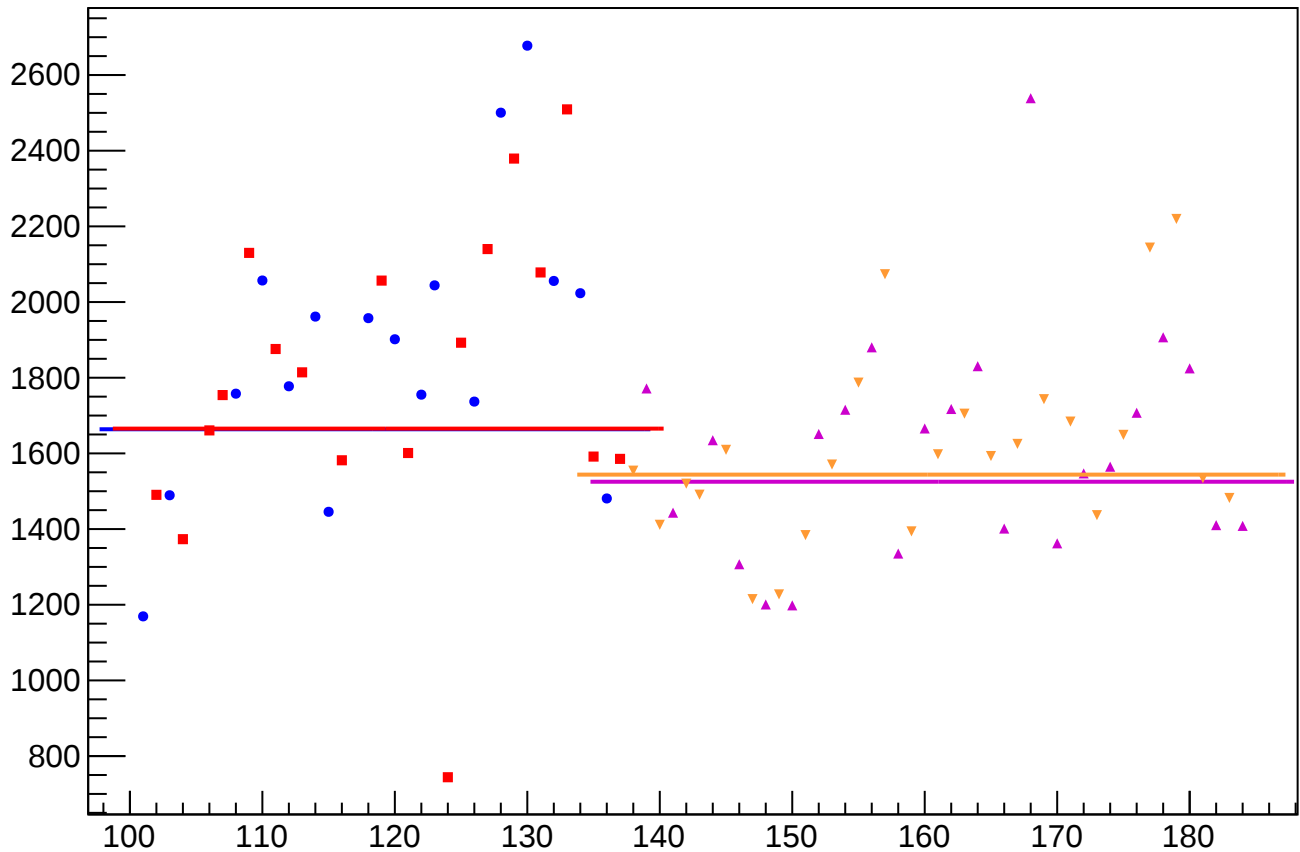
Left In: 48.620+/-369.225  $\chi^2/\text{NDF}$ : 19.6/22

+ sign 362.967+/-321.082  $\chi^2/\text{NDF}$ : 44.3/40

All: 308.675+/-227.001  $\chi^2/\text{NDF}$ : 78.3/81

- sign 254.419+/-320.973  $\chi^2/\text{NDF}$ : 34.0/40

# asym\_usr\_correction\_rms vs Slug



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

Left Out: 1543.907+/-0.260  $\chi^2/\text{NDF}$ : 742838.3/23

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

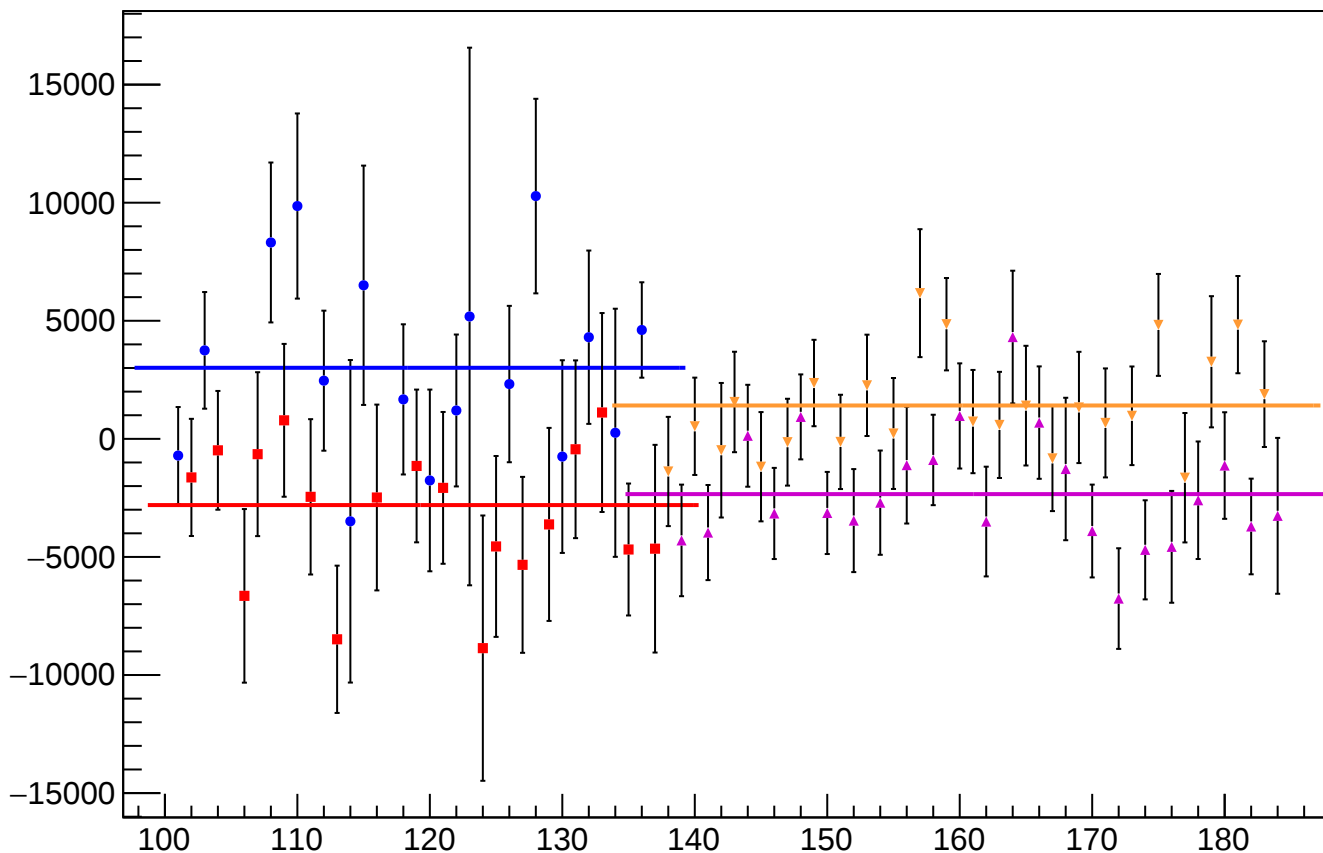
Left In: 1525.105+/-0.261  $\chi^2/\text{NDF}$ : 953918.8/22

+ sign 1572.246+/-0.227  $\chi^2/\text{NDF}$ : 1415639.0/40

All: 1565.818+/-0.161  $\chi^2/\text{NDF}$ : 3244559.8/81

- sign 1559.394+/-0.227  $\chi^2/\text{NDF}$ : 1827318.0/40

# asym\_usr\_mean vs Slug



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

Left Out:  $1413.234 \pm 453.181$   $\chi^2/\text{NDF}$ : 19.9/23

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

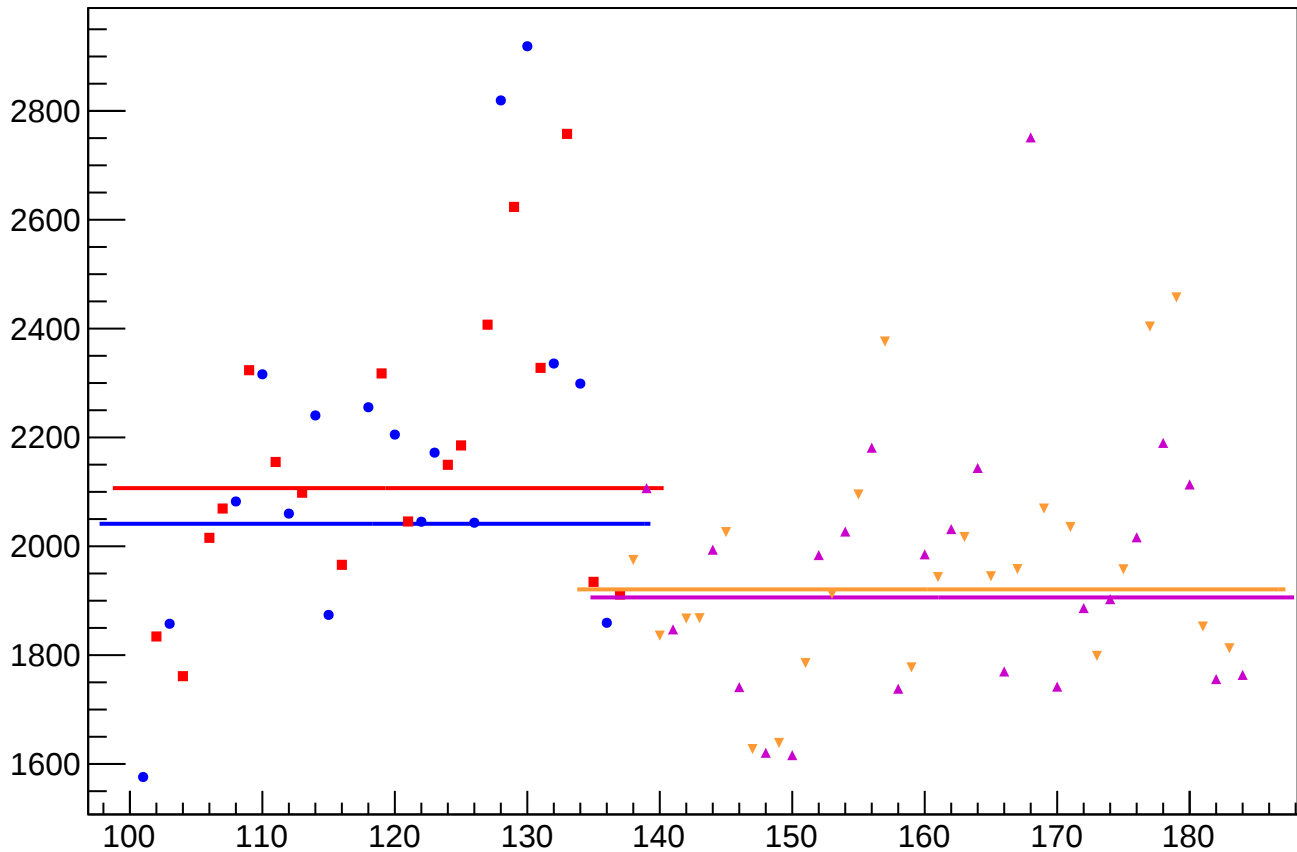
Left In:  $-2339.905 \pm 457.448$   $\chi^2/\text{NDF}$ : 25.2/22

+ sign  $1801.210 \pm 394.267$   $\chi^2/\text{NDF}$ : 40.3/40

All:  $-311.542 \pm 279.771$   $\chi^2/\text{NDF}$ : 134.8/81

- sign  $-2454.340 \pm 397.061$   $\chi^2/\text{NDF}$ : 36.6/40

# asym\_usr\_rms vs Slug



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

Left Out: 1920.837+/-0.320  $\chi^2/\text{NDF}$ : 365165.2/23

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

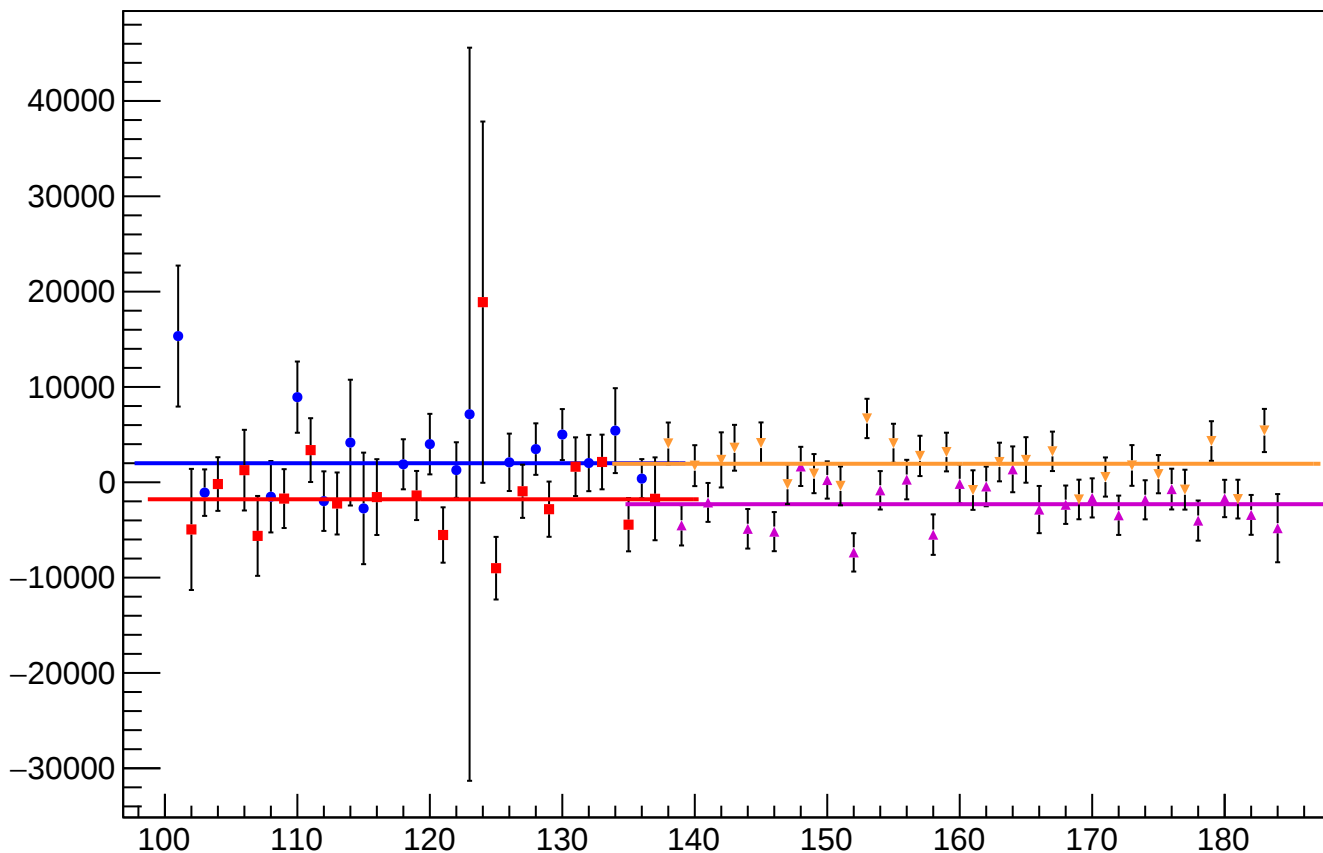
Left In: 1906.043+/-0.323  $\chi^2/\text{NDF}$ : 451054.7/22

+ sign 1950.133+/-0.279  $\chi^2/\text{NDF}$ : 737983.7/40

All: 1952.827+/-0.198  $\chi^2/\text{NDF}$ : 1480977.4/83

- sign 1955.559+/-0.281  $\chi^2/\text{NDF}$ : 742805.6/40

# dit\_asym\_at1\_avg\_mean vs Slug



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

Left Out:  $1942.877 \pm 434.504$   $\chi^2/\text{NDF}$ : 26.9/23

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

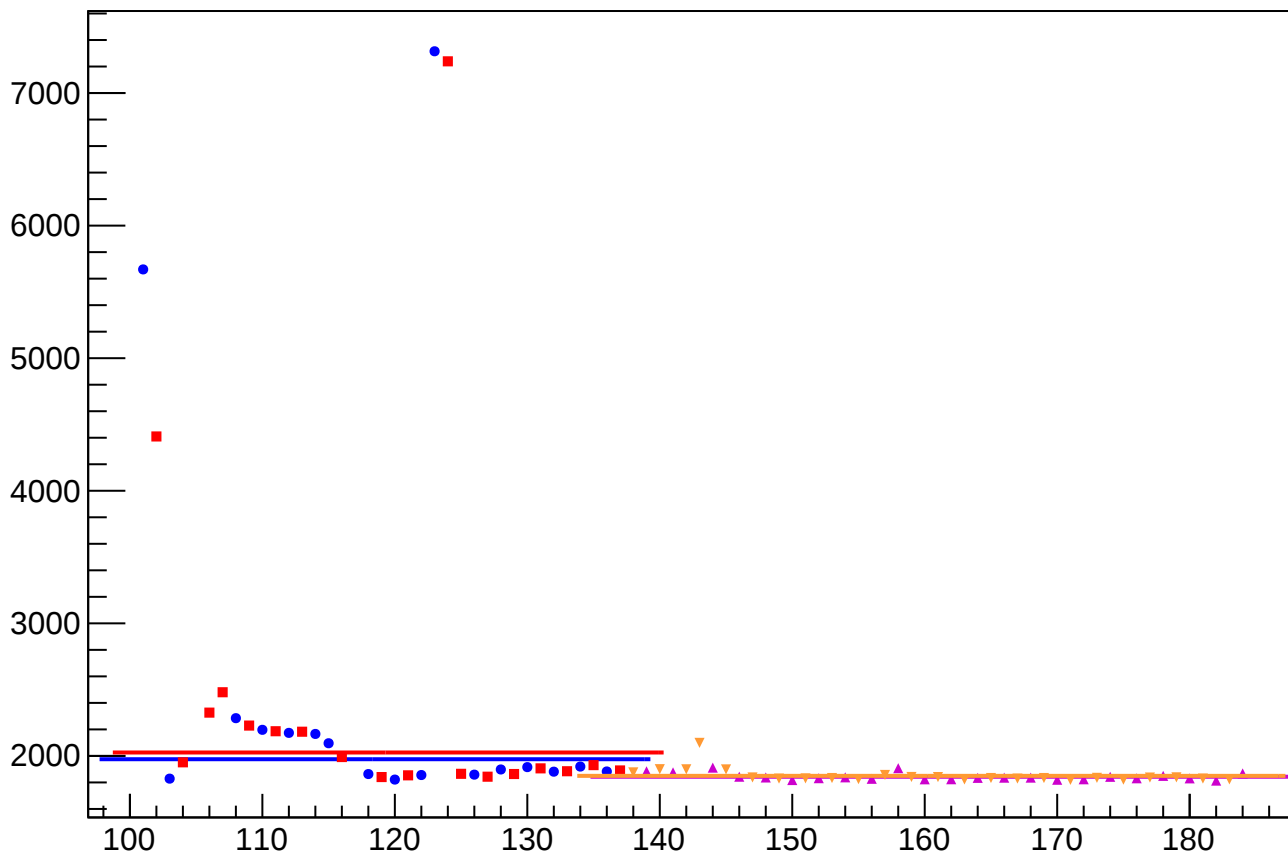
Left In:  $-2298.533 \pm 440.433$   $\chi^2/\text{NDF}$ : 27.5/22

+ sign  $1956.339 \pm 379.768$   $\chi^2/\text{NDF}$ : 41.7/40

All:  $-87.404 \pm 269.928$   $\chi^2/\text{NDF}$ : 144.4/81

- sign  $-2174.060 \pm 383.734$   $\chi^2/\text{NDF}$ : 44.1/40

# dit\_asym\_at1\_avg\_rms vs Slug



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

Left Out: 1849.673+/-0.307  $\chi^2/\text{NDF}$ : 27681.0/23

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

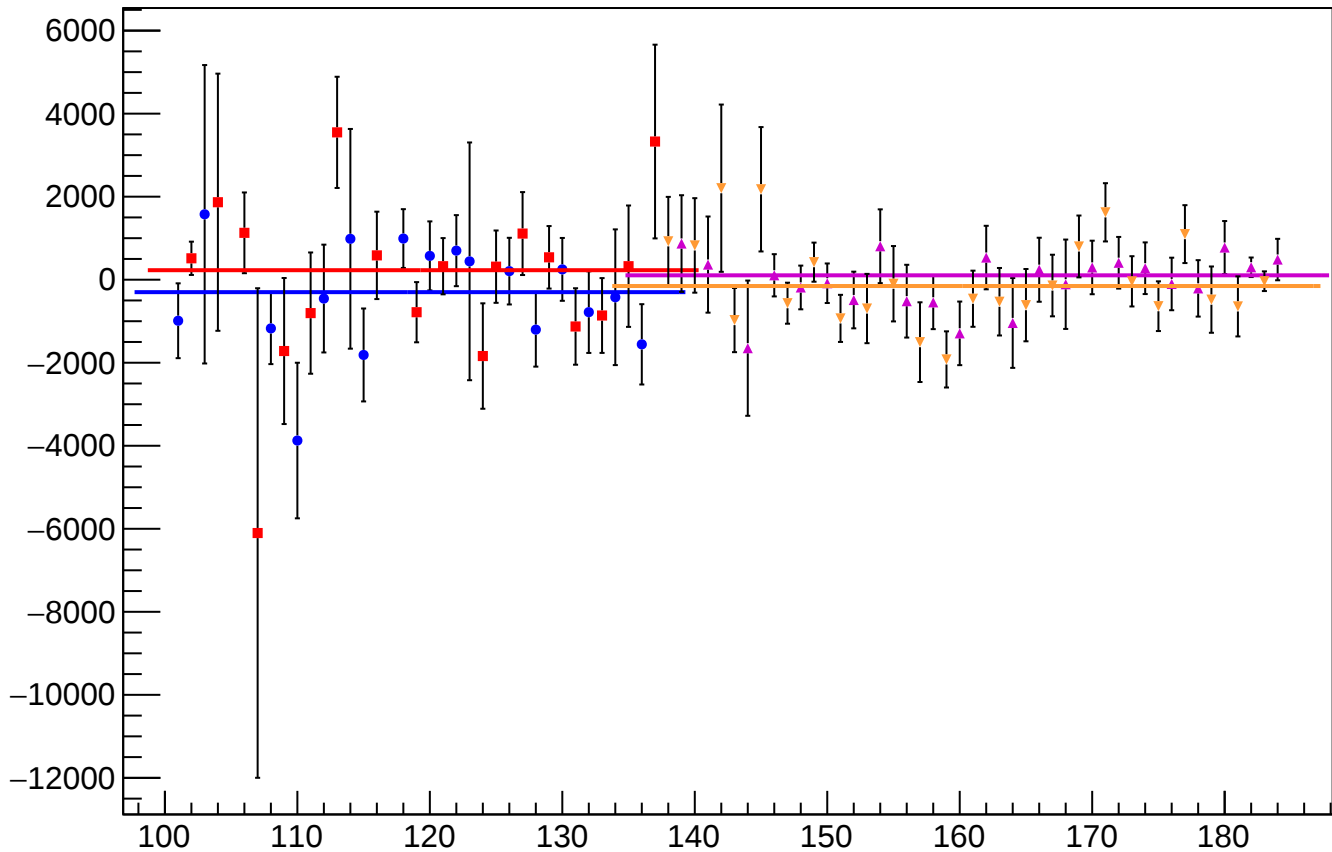
Left In: 1843.042+/-0.311  $\chi^2/\text{NDF}$ : 7279.9/22

+ sign 1879.286+/-0.269  $\chi^2/\text{NDF}$ : 666862.1/40

All: 1883.145+/-0.191  $\chi^2/\text{NDF}$ : 1292966.0/81

- sign 1887.085+/-0.271  $\chi^2/\text{NDF}$ : 625686.4/40

# asym\_at1\_avg\_correction\_mean vs Slug



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

Left Out: -152.262 $\pm$ 127.897  $\chi^2$ /NDF:33.5/23

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

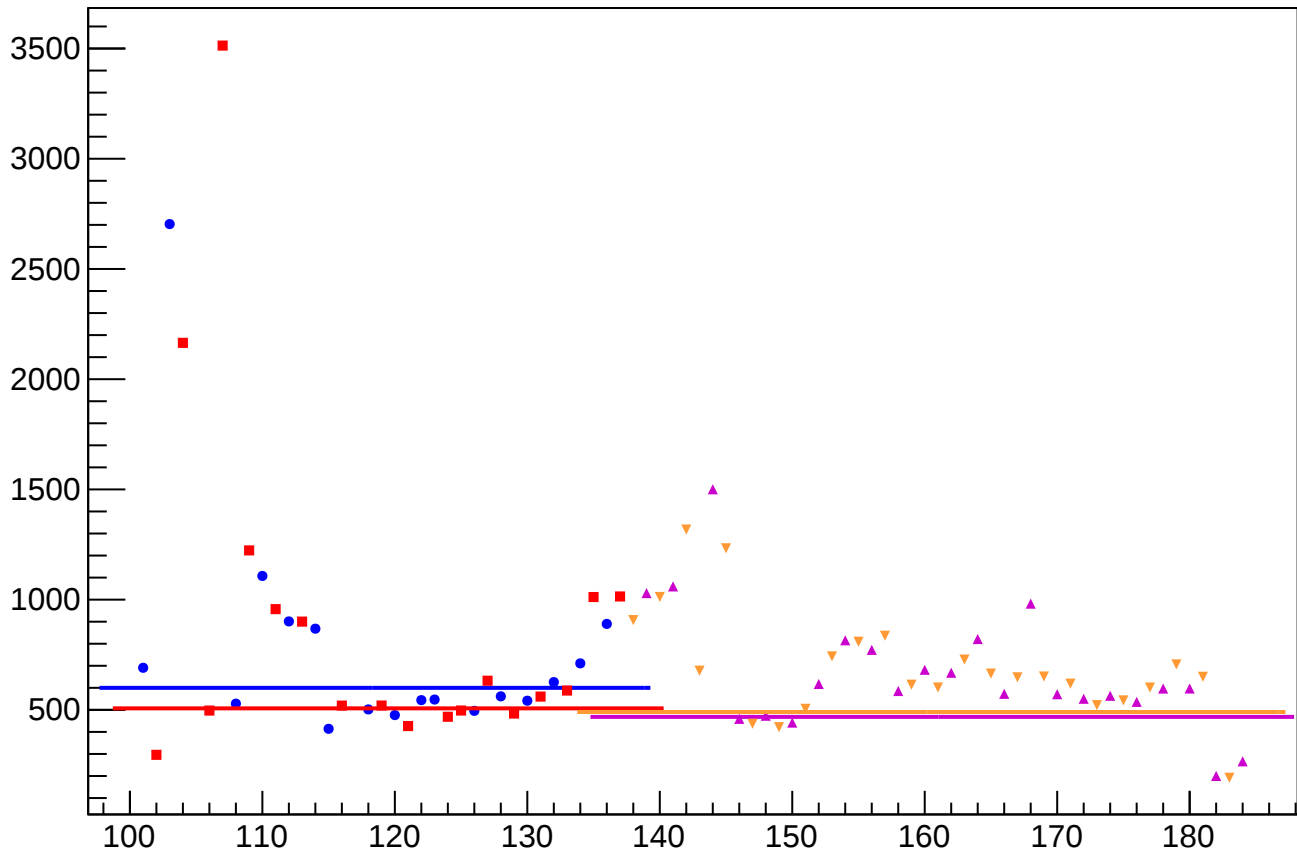
Left In: 105.406 $\pm$ 124.568  $\chi^2$ /NDF:12.9/22

+ sign -183.573 $\pm$ 113.537  $\chi^2$ /NDF: 51.1/40

All: -15.452 $\pm$ 78.199  $\chi^2$ /NDF: 90.3/81

- sign 136.281 $\pm$ 107.862  $\chi^2$ /NDF: 34.9/40

# asym\_at1\_avg\_correction\_rms vs Slug



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

Left Out: 490.336+/-0.090     $\chi^2/\text{NDF}$ : 6526566.8/23

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

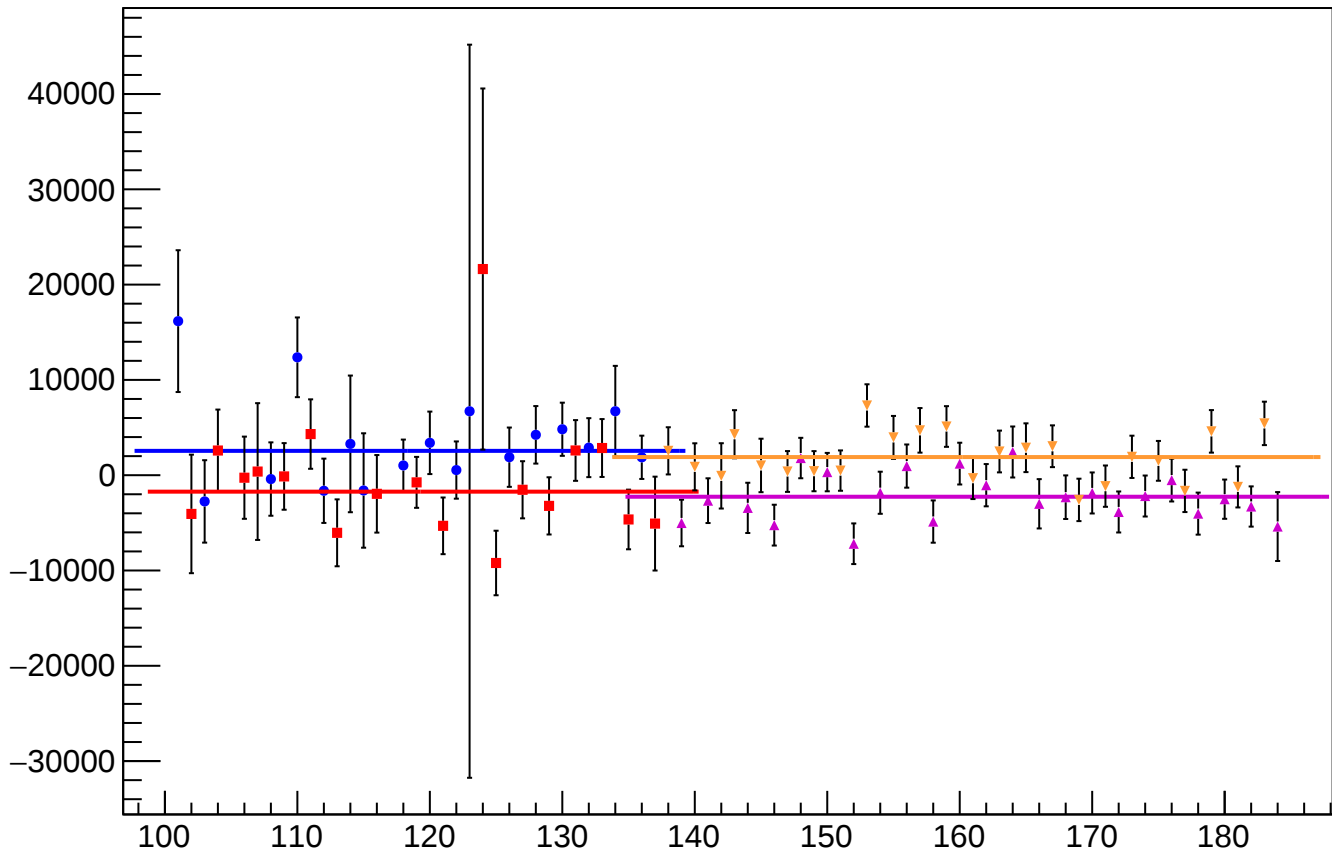
Left In: 468.171+/-0.088     $\chi^2/\text{NDF}$ : 6737456.3/22

+ sign 513.570+/-0.080     $\chi^2/\text{NDF}$ : 8219004.7/40

All: 494.798+/-0.055     $\chi^2/\text{NDF}$ : 17869653.5/83

- sign 477.856+/-0.076     $\chi^2/\text{NDF}$ : 9546635.6/40

# asym\_at1\_avg\_mean vs Slug



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

Left Out: 1902.973 $\pm$ 466.249  $\chi^2$ /NDF: 29.6/23

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

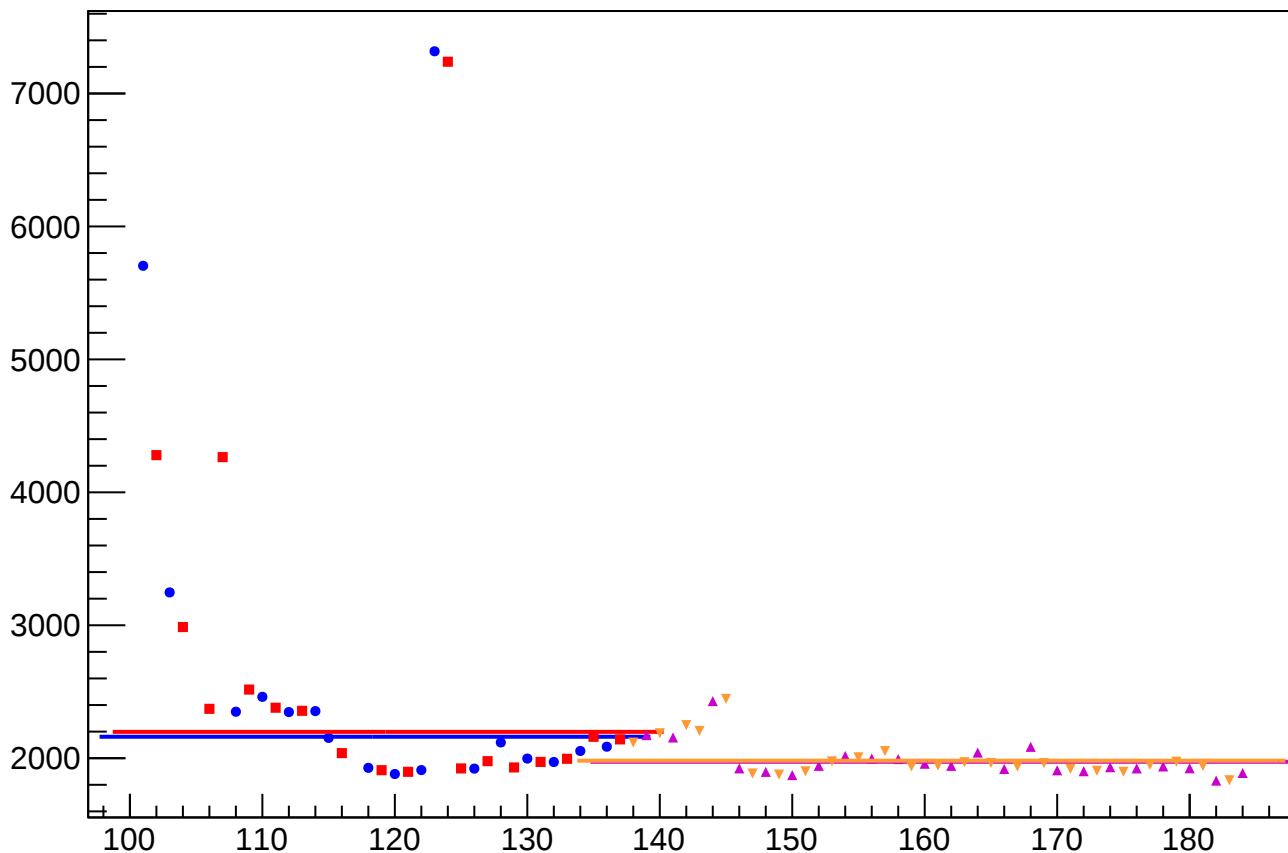
Left In: -2260.178 $\pm$ 472.324  $\chi^2$ /NDF: 26.3/22

+ sign 2051.059 $\pm$ 409.767  $\chi^2$ /NDF: 45.8/40

All: -23.515 $\pm$ 291.043  $\chi^2$ /NDF: 143.7/81

- sign -2135.565 $\pm$ 413.452  $\chi^2$ /NDF: 46.2/40

# asym\_at1\_avg\_rms vs Slug



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

Left Out: 1981.387 $\pm$ 0.330  $\chi^2$ /NDF:135862.2/23

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

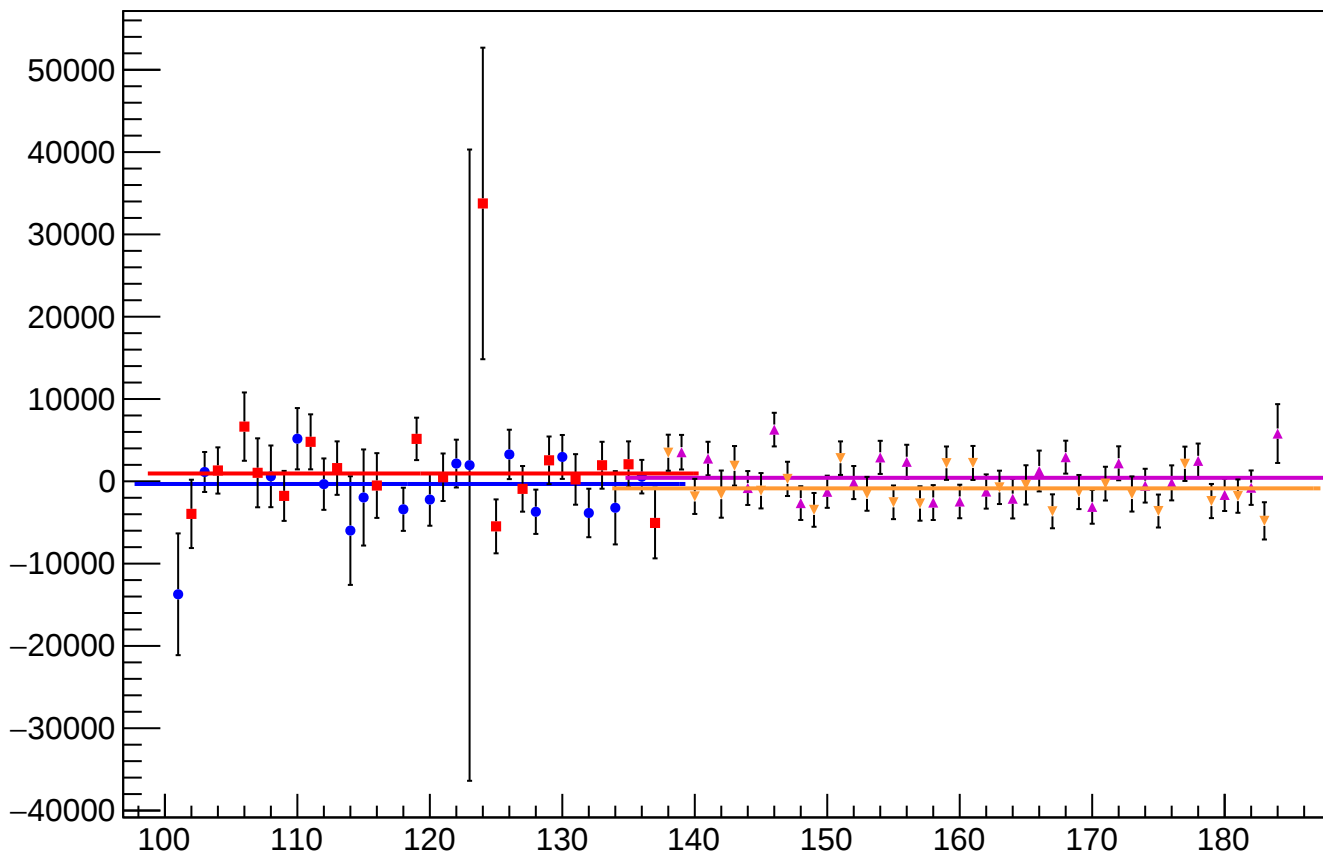
Left In: 1973.216 $\pm$ 0.334  $\chi^2$ /NDF:120479.3/22

+ sign 2022.363 $\pm$ 0.290  $\chi^2$ /NDF: 914985.3/40

All: 2024.068 $\pm$ 0.206  $\chi^2$ /NDF: 1875469.3/83

- sign 2025.804 $\pm$ 0.292  $\chi^2$ /NDF: 960414.1/40

# dit\_asym\_at1\_dd\_mean vs Slug



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

Left Out:  $-855.232 \pm 433.358$   $\chi^2/\text{NDF}$ : 26.6/23

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

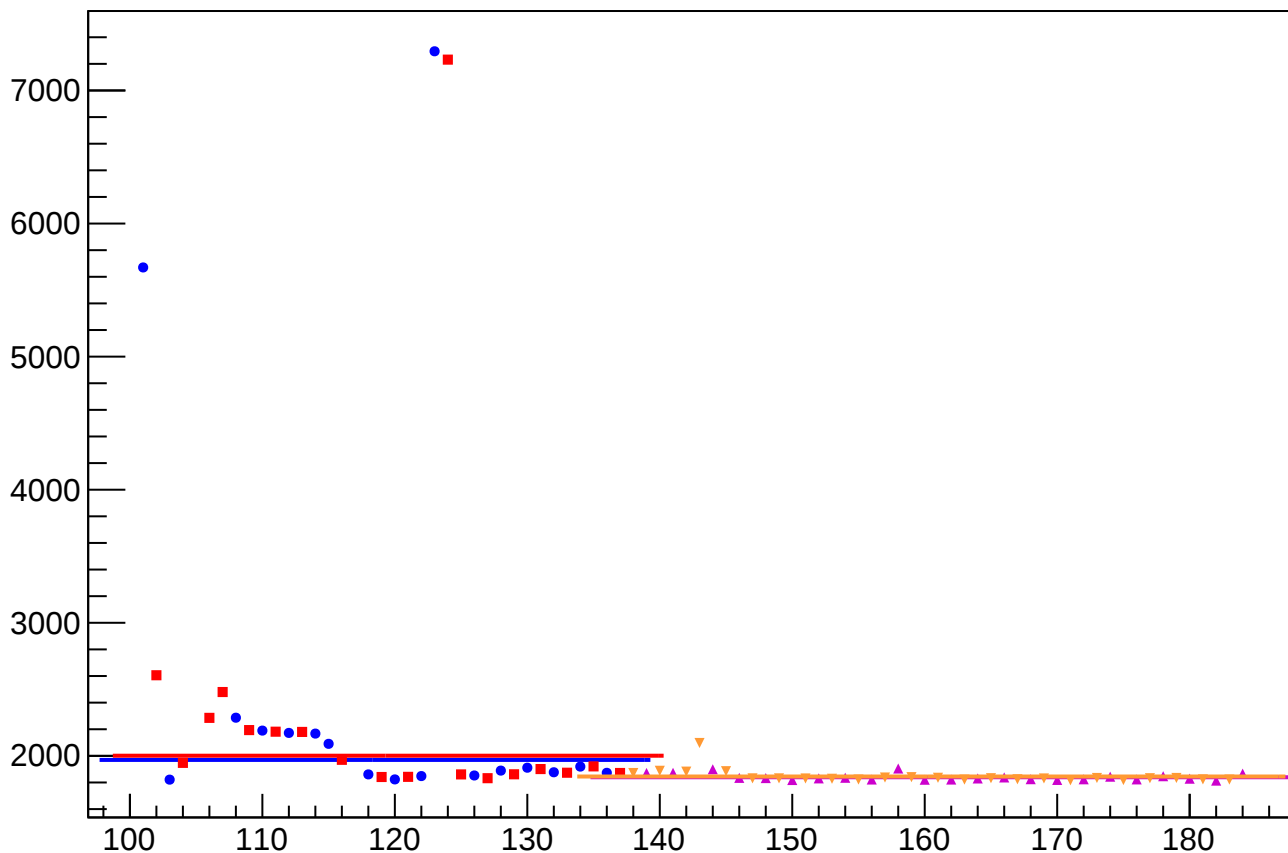
Left In:  $424.262 \pm 439.523$   $\chi^2/\text{NDF}$ : 33.7/22

+ sign  $-729.748 \pm 378.762$   $\chi^2/\text{NDF}$ : 42.7/40

All:  $-93.060 \pm 268.875$   $\chi^2/\text{NDF}$ : 100.6/81

- sign  $553.712 \pm 381.750$   $\chi^2/\text{NDF}$ : 52.2/40

# dit\_asym\_at1\_dd\_rms vs Slug



Right In: 1969.494 $\pm$ 0.551  $\chi^2$ /NDF: 602810.5/16

Left Out: 1844.859 $\pm$ 0.306  $\chi^2$ /NDF: 26834.6/23

Right Out: 2001.177 $\pm$ 0.545  $\chi^2$ /NDF: 290624.5/17

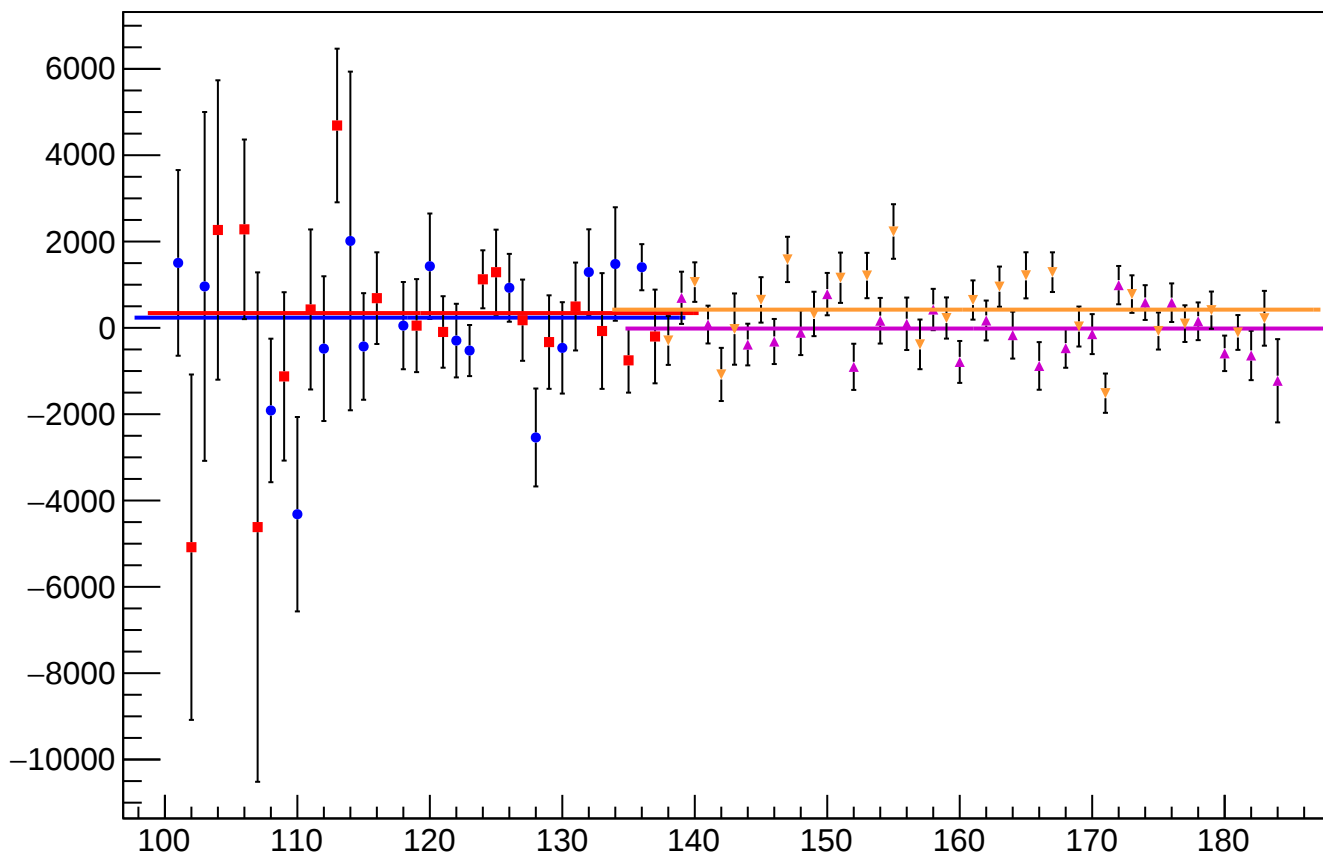
Left In: 1839.274 $\pm$ 0.311  $\chi^2$ /NDF: 6386.1/22

+ sign 1874.285 $\pm$ 0.268  $\chi^2$ /NDF: 668703.1/40

All: 1876.644 $\pm$ 0.190  $\chi^2$ /NDF: 1032525.7/83

- sign 1879.040 $\pm$ 0.270  $\chi^2$ /NDF: 363666.2/40

# asym\_at1\_dd\_correction\_mean vs Slug



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

Left Out: 422.372 $\pm$ 101.569  $\chi^2$ /NDF: 59.7/23

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

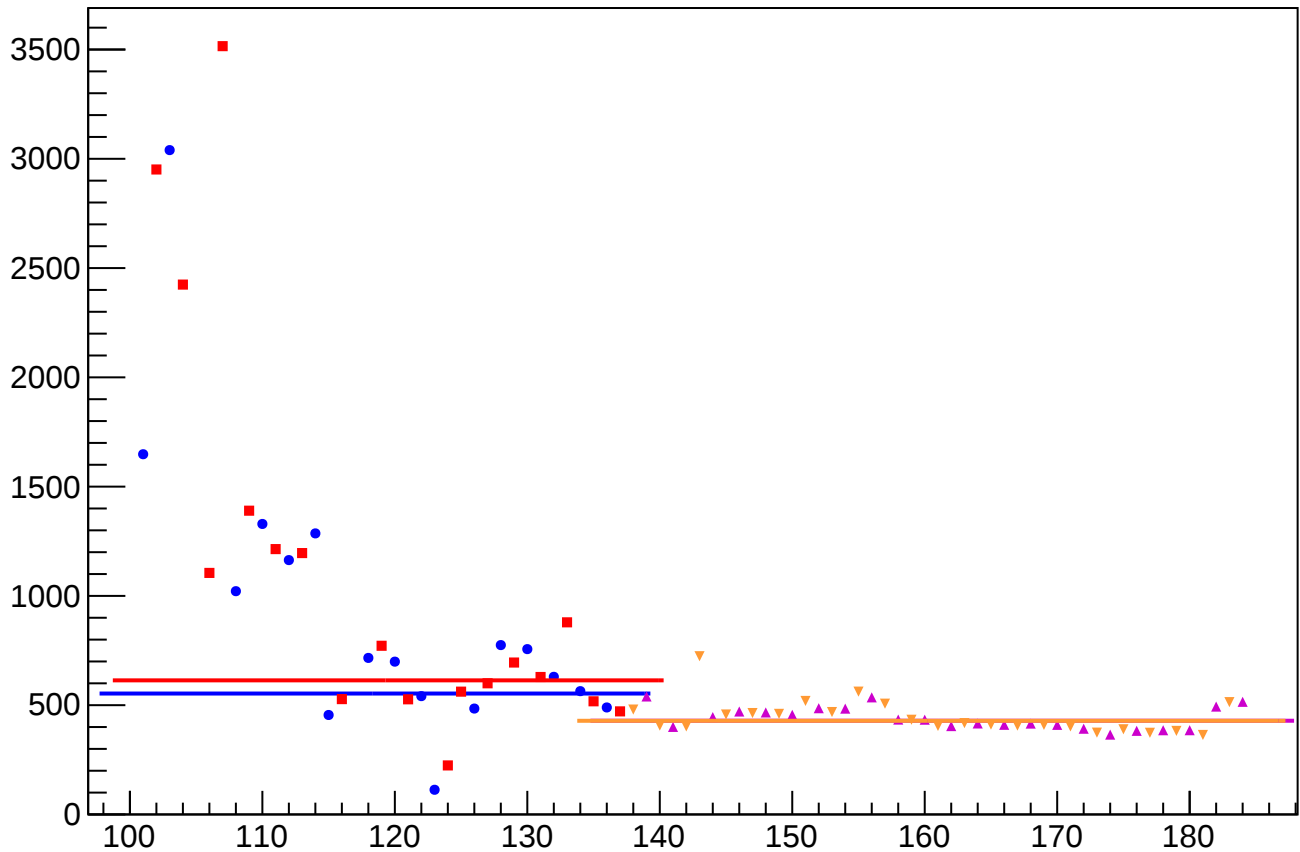
Left In: -15.681 $\pm$ 102.850  $\chi^2$ /NDF: 29.1/22

+ sign 395.836 $\pm$ 94.024  $\chi^2$ /NDF: 84.0/40

All: 216.895 $\pm$ 67.190  $\chi^2$ /NDF: 138.0/81

- sign 30.165 $\pm$ 96.049  $\chi^2$ /NDF: 46.6/40

# asym\_at1\_dd\_correction\_rms vs Slug



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

Left Out: 428.587+/-0.072  $\chi^2/\text{NDF}$ : 704327.0/23

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

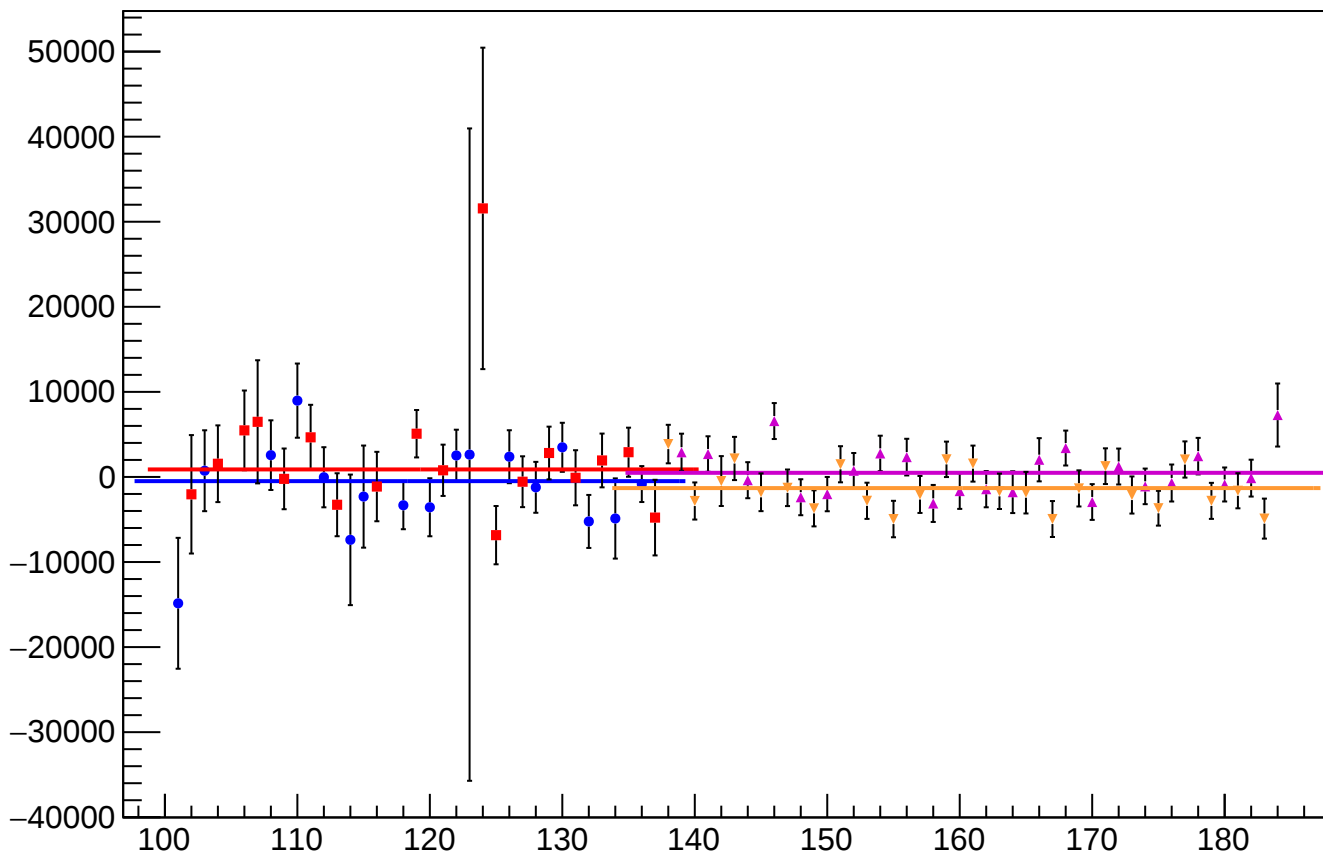
Left In: 428.814+/-0.073  $\chi^2/\text{NDF}$ : 397391.5/22

+ sign 446.423+/-0.066  $\chi^2/\text{NDF}$ : 4548255.2/40

All: 449.369+/-0.048  $\chi^2/\text{NDF}$ : 9251471.4/81

- sign 452.443+/-0.068  $\chi^2/\text{NDF}$ : 4699204.0/40

# asym\_at1\_dd\_mean vs Slug



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

Left Out:  $-1310.224 \pm 446.152$   $\chi^2/\text{NDF}$ : 30.1/23

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

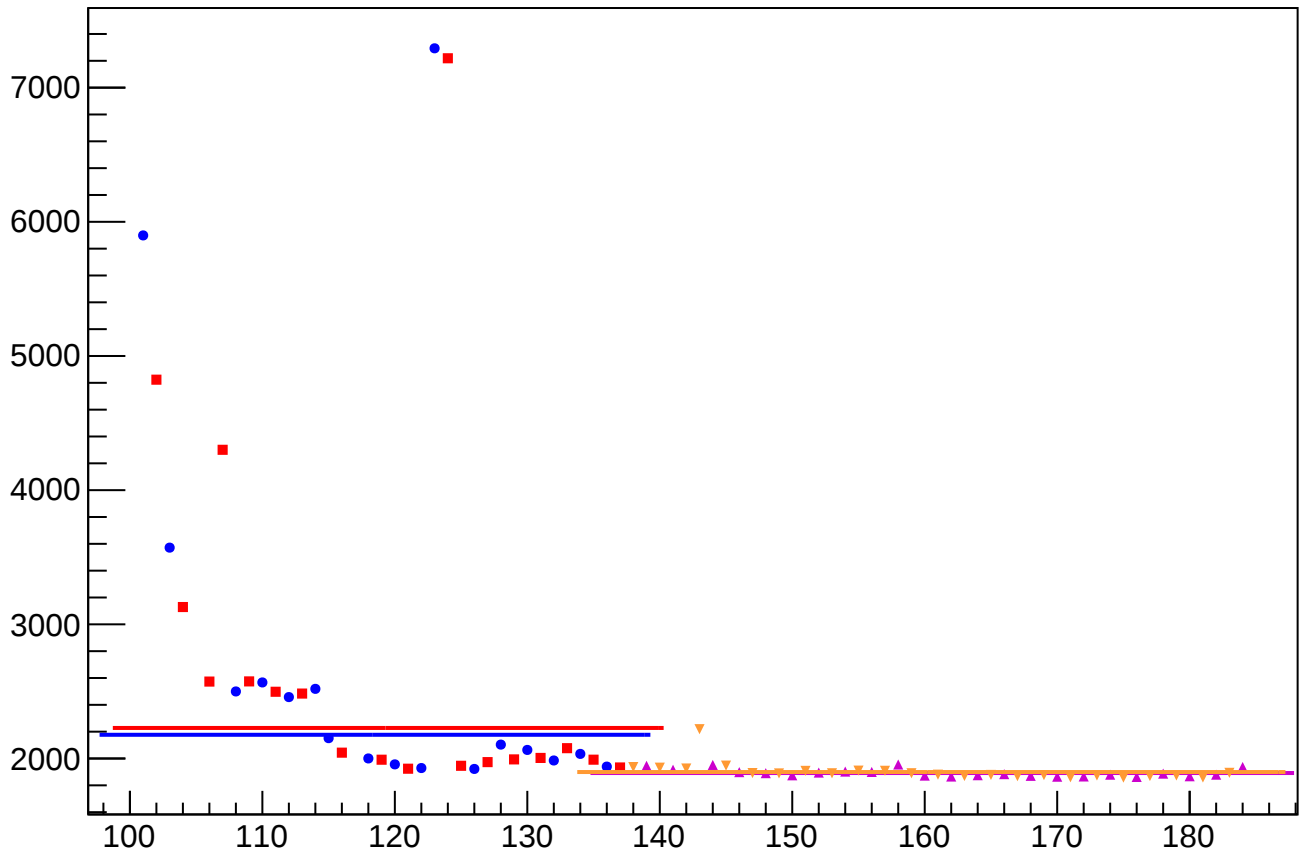
Left In:  $485.827 \pm 452.020$   $\chi^2/\text{NDF}$ : 32.4/22

+ sign  $-1139.212 \pm 396.802$   $\chi^2/\text{NDF}$ : 49.3/40

All:  $-293.293 \pm 282.063$   $\chi^2/\text{NDF}$ : 108.4/81

- sign  $570.736 \pm 401.027$   $\chi^2/\text{NDF}$ : 49.8/40

# asym\_at1\_dd\_rms vs Slug



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

Left Out: 1899.197+/-0.315  $\chi^2/\text{NDF}$ : 38641.6/23

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

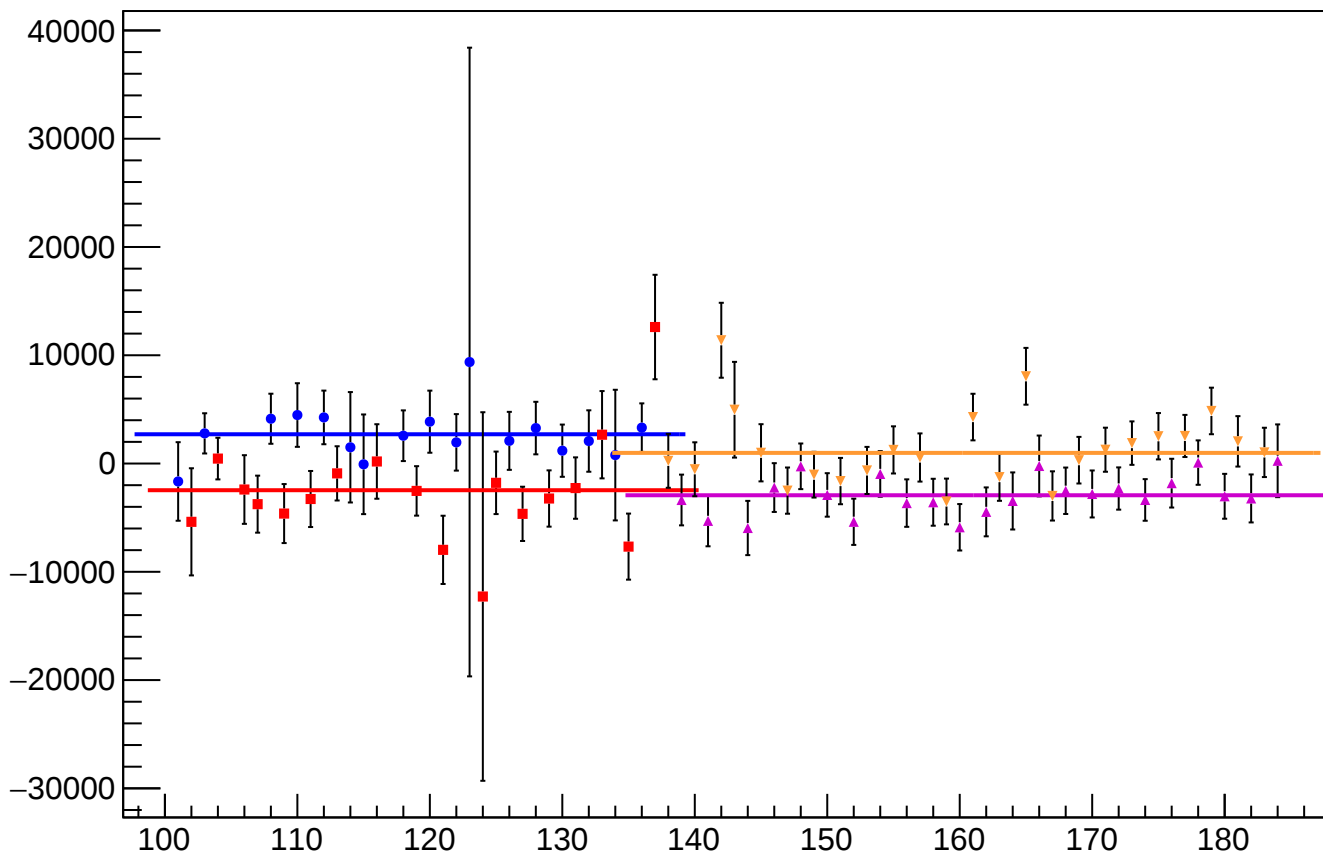
Left In: 1891.722+/-0.320  $\chi^2/\text{NDF}$ : 7584.2/22

+ sign 1957.202+/-0.281  $\chi^2/\text{NDF}$ : 1003077.3/40

All: 1960.193+/-0.199  $\chi^2/\text{NDF}$ : 2071776.9/83

- sign 1963.248+/-0.284  $\chi^2/\text{NDF}$ : 1068469.8/40

# dit\_asym\_at2\_avg\_mean vs Slug



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

Left Out: 983.062 $\pm$ 463.435  $\chi^2$ /NDF:39.2/23

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

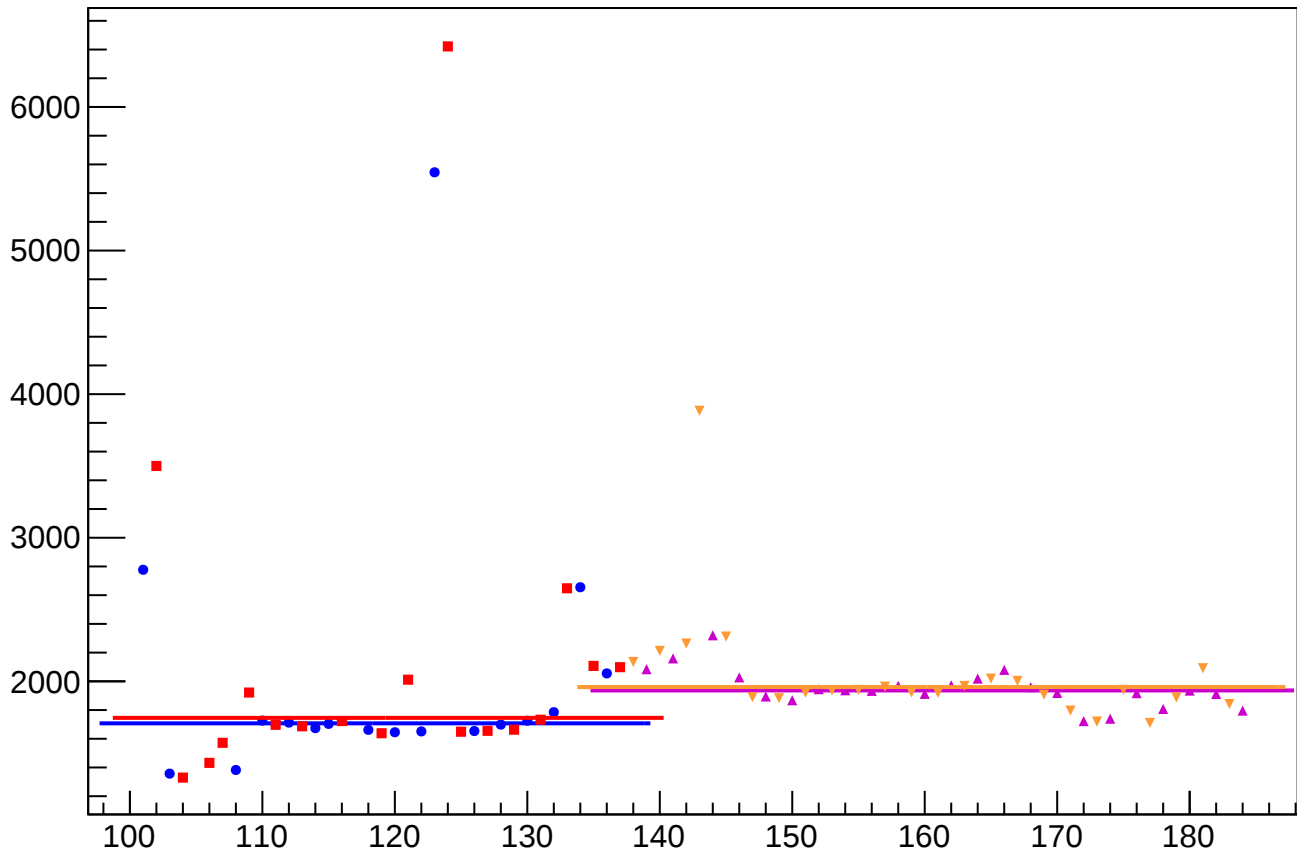
Left In: -2930.152 $\pm$ 463.006  $\chi^2$ /NDF:13.5/22

+ sign 1535.457 $\pm$ 381.855  $\chi^2$ /NDF: 47.6/40

All: -615.969 $\pm$ 270.520  $\chi^2$ /NDF: 148.3/81

- sign -2783.646 $\pm$ 383.295  $\chi^2$ /NDF: 37.0/40

# dit\_asym\_at2\_avg\_rms vs Slug



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

Left Out: 1959.996 $\pm$ 0.328  $\chi^2$ /NDF: 559051.0/23

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

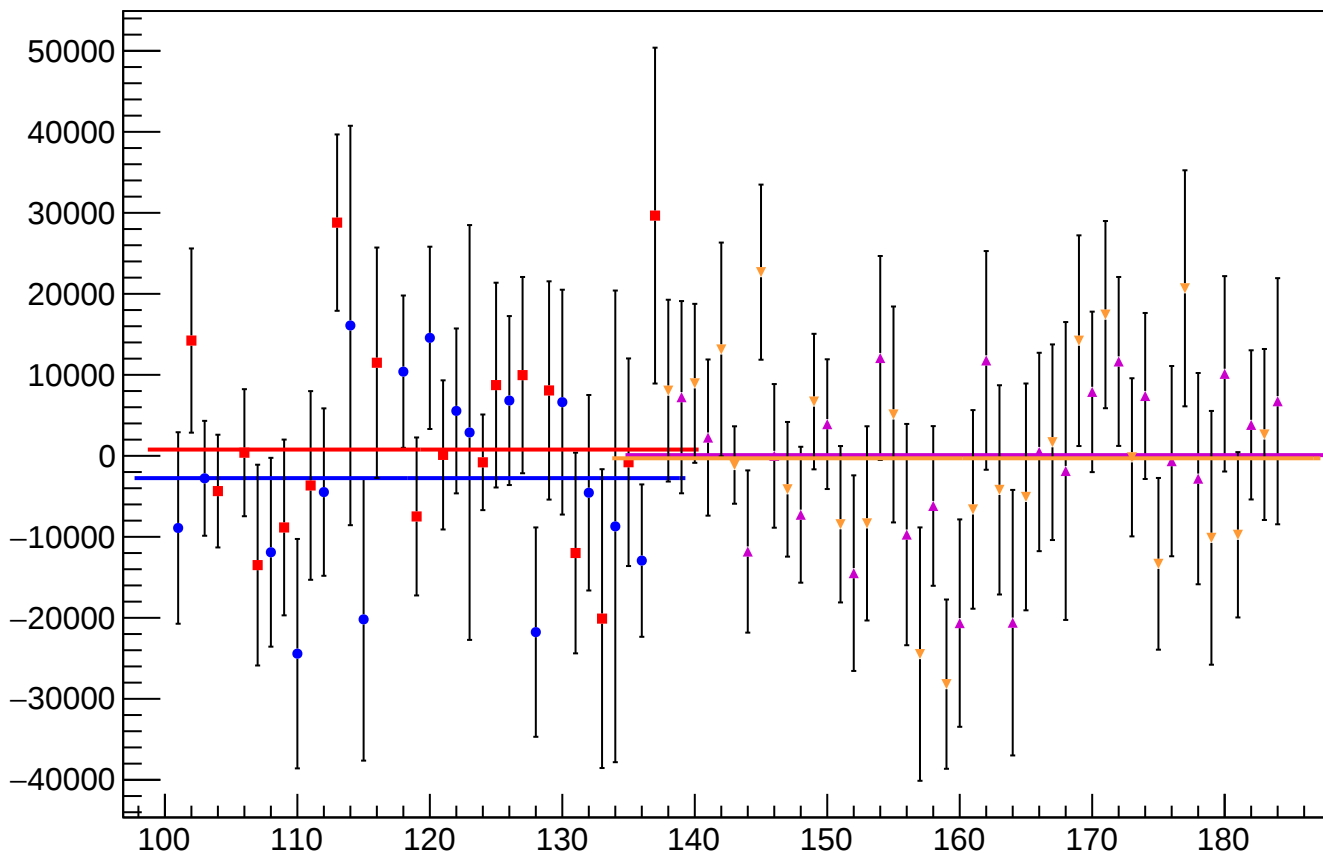
Left In: 1936.560 $\pm$ 0.327  $\chi^2$ /NDF: 144738.0/22

+ sign 1878.889 $\pm$ 0.270  $\chi^2$ /NDF: 1172010.6/40

All: 1877.664 $\pm$ 0.191  $\chi^2$ /NDF: 2123183.1/81

- sign 1876.430 $\pm$ 0.271  $\chi^2$ /NDF: 951131.2/40

# asym\_at2\_avg\_correction\_mean vs Slug



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

Left Out: -302.539 $\pm$ 2101.355  $\chi^2$ /NDF: 27.8/23

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

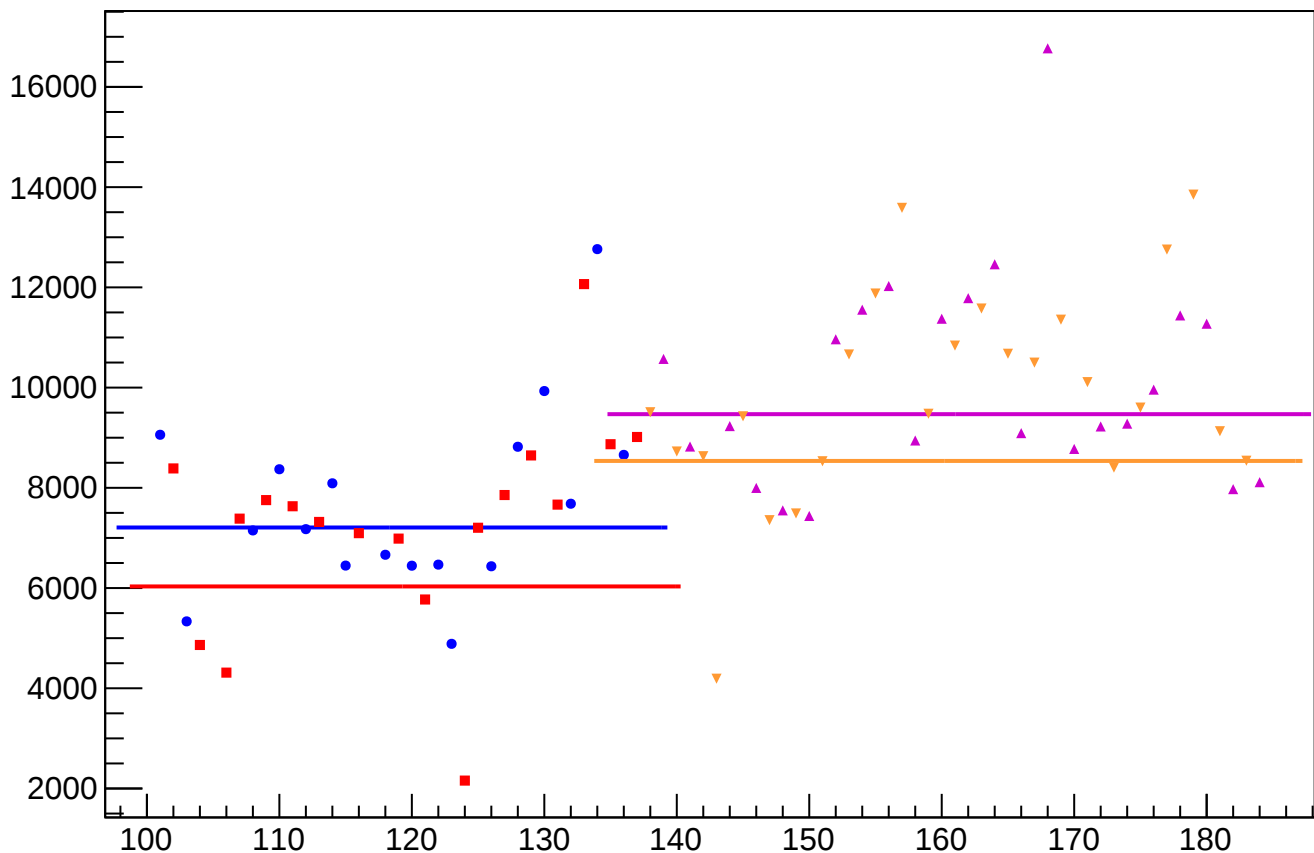
Left In: 88.781 $\pm$ 2299.426  $\chi^2$ /NDF: 14.5/22

+ sign -1167.725 $\pm$ 1689.731  $\chi^2$ /NDF: 42.8/40

All: -370.625 $\pm$ 1189.106  $\chi^2$ /NDF: 75.6/81

- sign 411.407 $\pm$ 1673.684  $\chi^2$ /NDF: 32.3/40

# asym\_at2\_avg\_correction\_rms vs Slug



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

Left Out: 8536.653+/-1.486  $\chi^2/\text{NDF}$ : 3004249.0/23

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

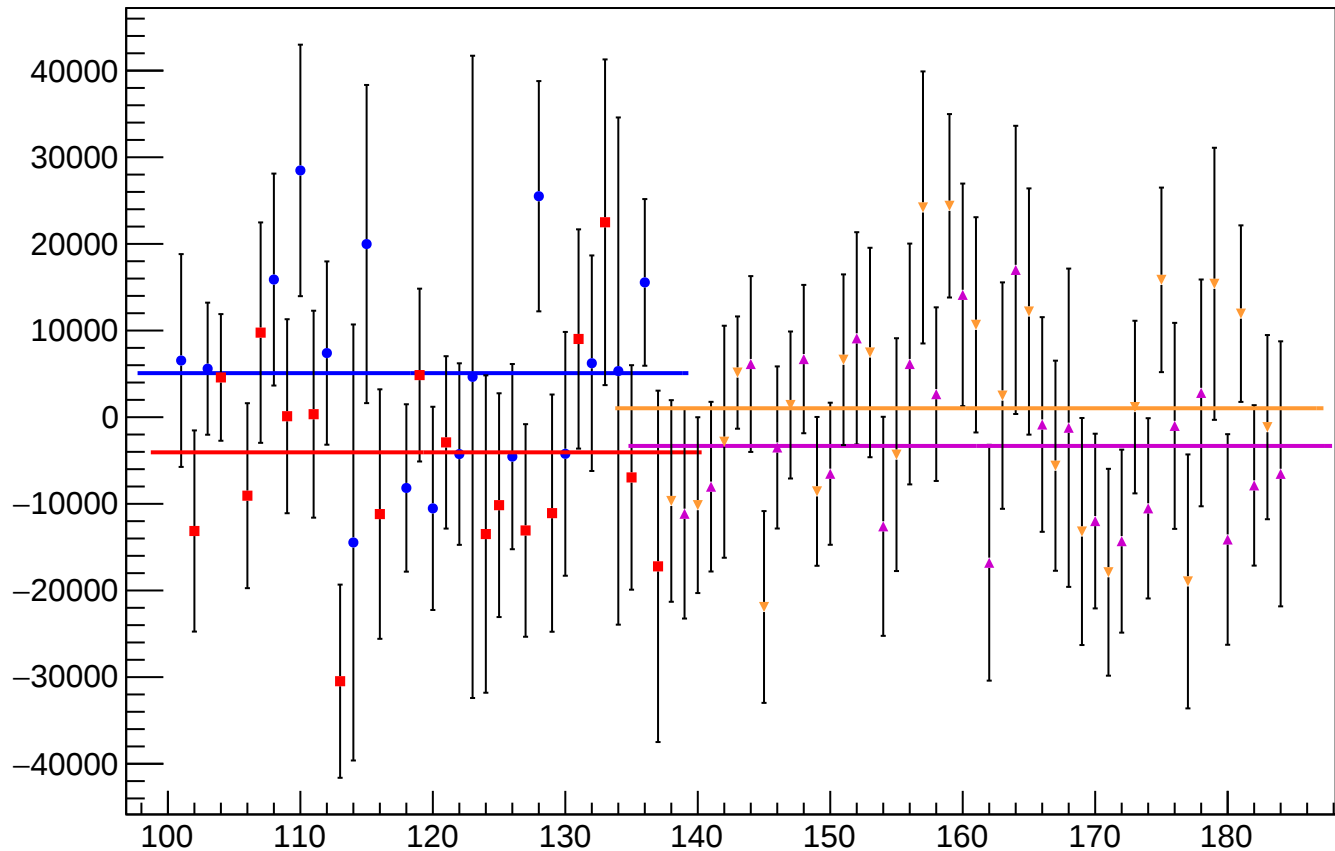
Left In: 9469.781+/-1.626  $\chi^2/\text{NDF}$ : 1138084.7/22

+ sign 8067.231+/-1.195  $\chi^2/\text{NDF}$ : 3780417.6/40

All: 7959.301+/-0.841  $\chi^2/\text{NDF}$ : 8834003.1/81

- sign 7853.411+/-1.183  $\chi^2/\text{NDF}$ : 5037420.1/40

# asym\_at2\_avg\_mean vs Slug



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

Left Out: 1032.591 $\pm$ 2231.505  $\chi^2$ /NDF: 27.0/23

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

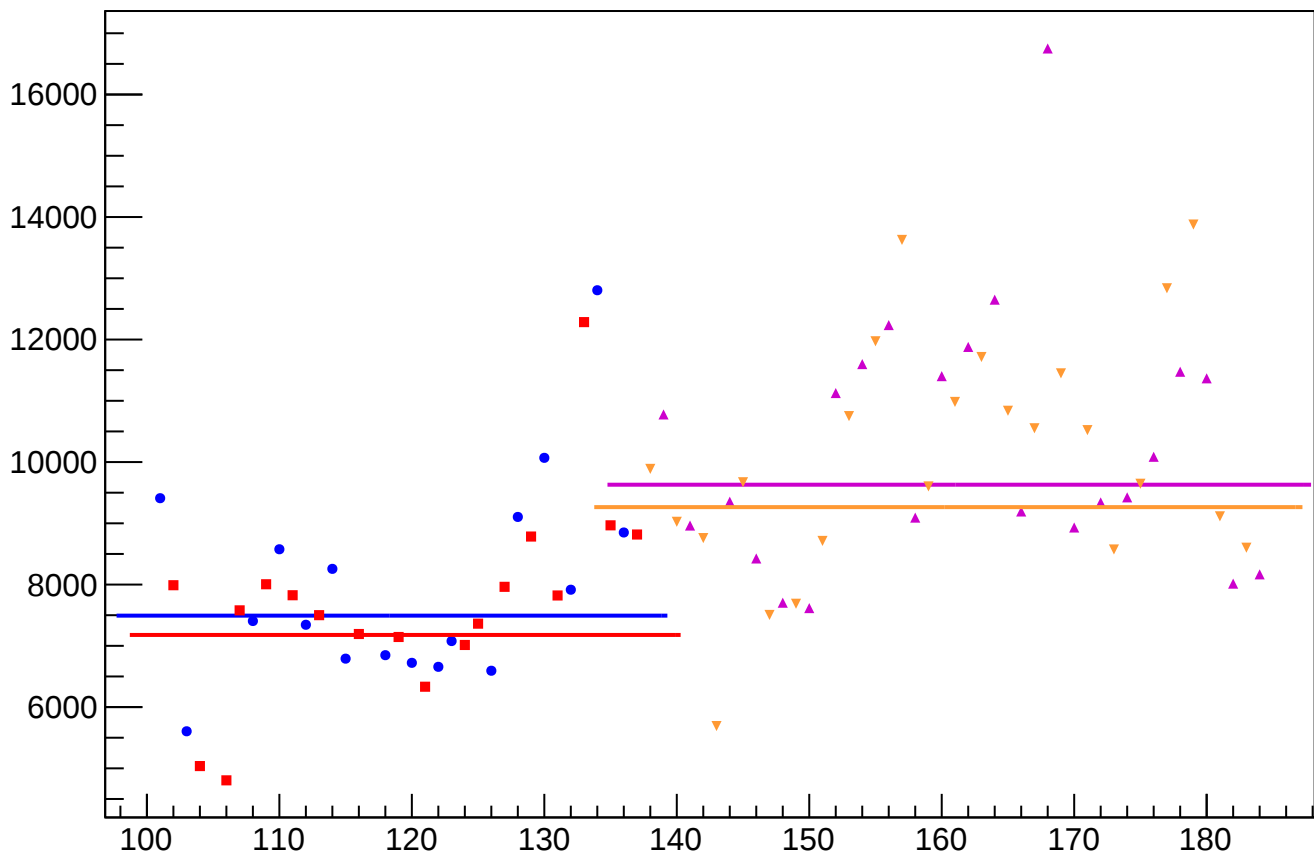
Left In: -3316.960 $\pm$ 2336.196  $\chi^2$ /NDF: 13.4/22

+ sign 2504.001 $\pm$ 1780.835  $\chi^2$ /NDF: 42.1/40

All: -535.784 $\pm$ 1263.811  $\chi^2$ /NDF: 76.6/81

- sign -3620.105 $\pm$ 1793.833  $\chi^2$ /NDF: 28.7/40

# asym\_at2\_avg\_rms vs Slug



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

Left Out: 9264.377+/-1.578  $\chi^2/\text{NDF}$ : 1593951.5/23

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

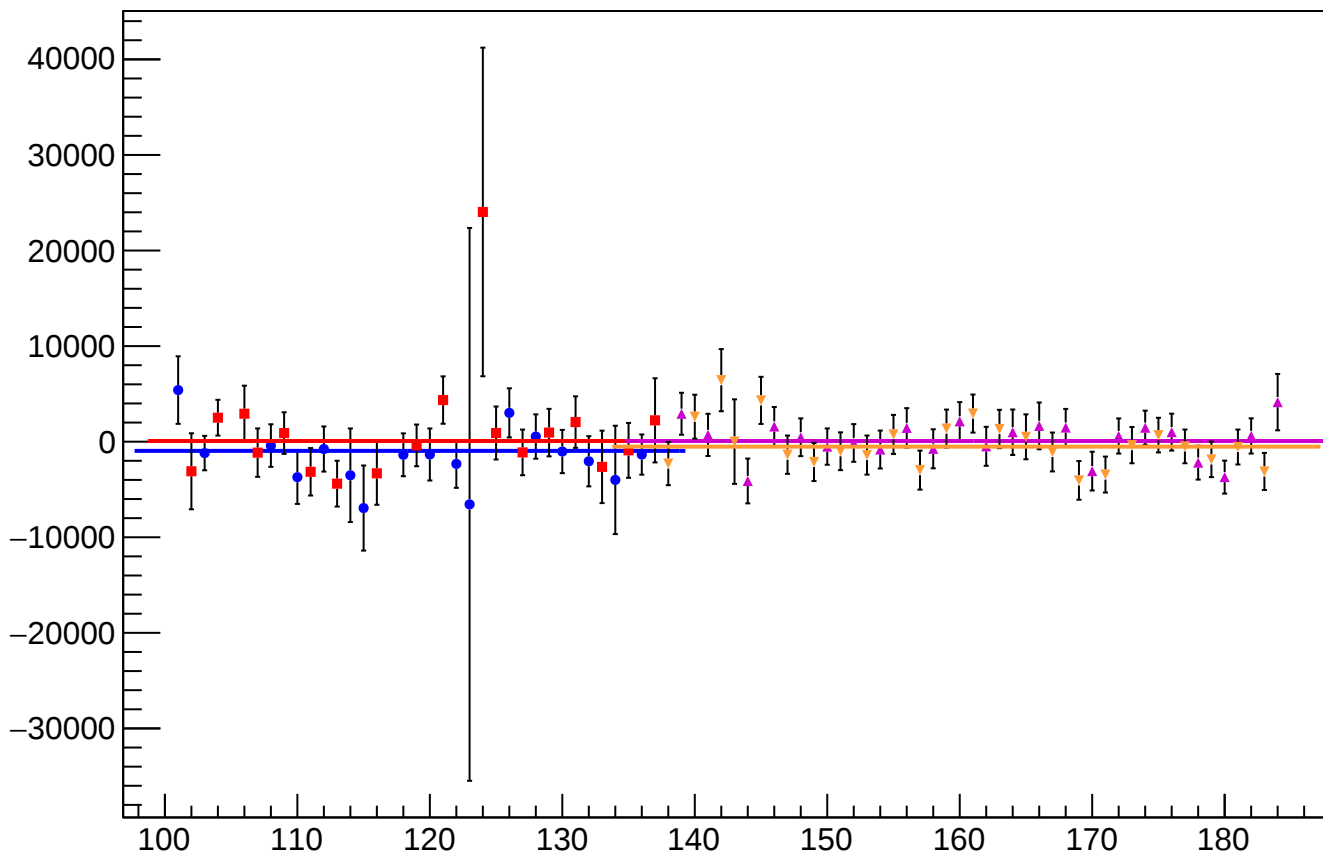
Left In: 9630.345+/-1.652  $\chi^2/\text{NDF}$ : 1074643.5/22

+ sign 8621.088+/-1.259  $\chi^2/\text{NDF}$ : 2488725.6/40

All: 8622.351+/-0.894  $\chi^2/\text{NDF}$ : 5024030.8/83

- sign 8623.632+/-1.268  $\chi^2/\text{NDF}$ : 2535303.2/40

# dit\_asym\_at2\_dd\_mean vs Slug



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

Left Out: -517.999+/-421.313  $\chi^2/\text{NDF}$ : 27.1/23

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

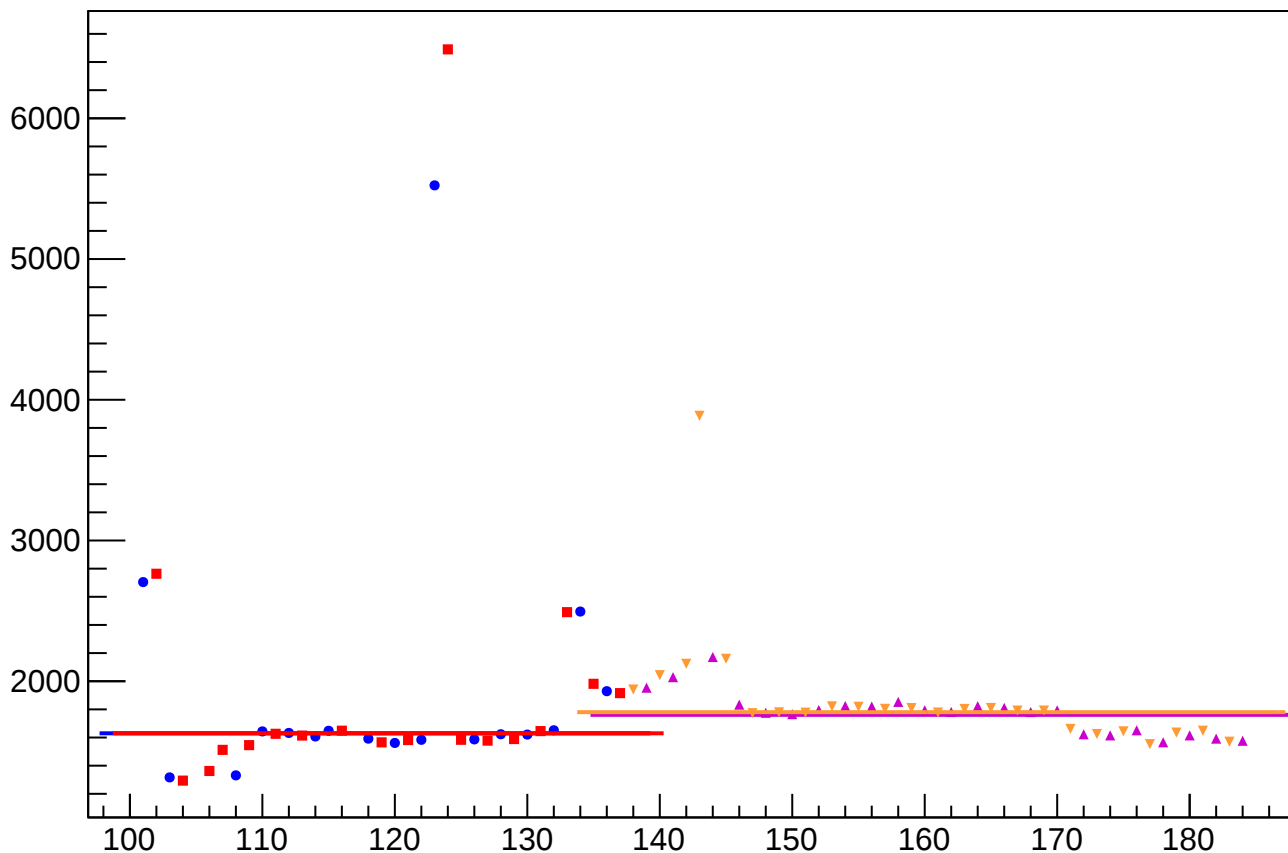
Left In: 71.111+/-421.203  $\chi^2/\text{NDF}$ : 20.4/22

+ sign -651.519+/-352.407  $\chi^2/\text{NDF}$ : 37.5/40

All: -288.631+/-248.657  $\chi^2/\text{NDF}$ : 76.7/81

- sign 71.176+/-350.908  $\chi^2/\text{NDF}$ : 37.1/40

dit\_asym\_at2\_dd\_rms vs Slug



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

Left Out: 1780.161 $\pm$ 0.298  $\chi^2$ /NDF: 674538.6/23

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

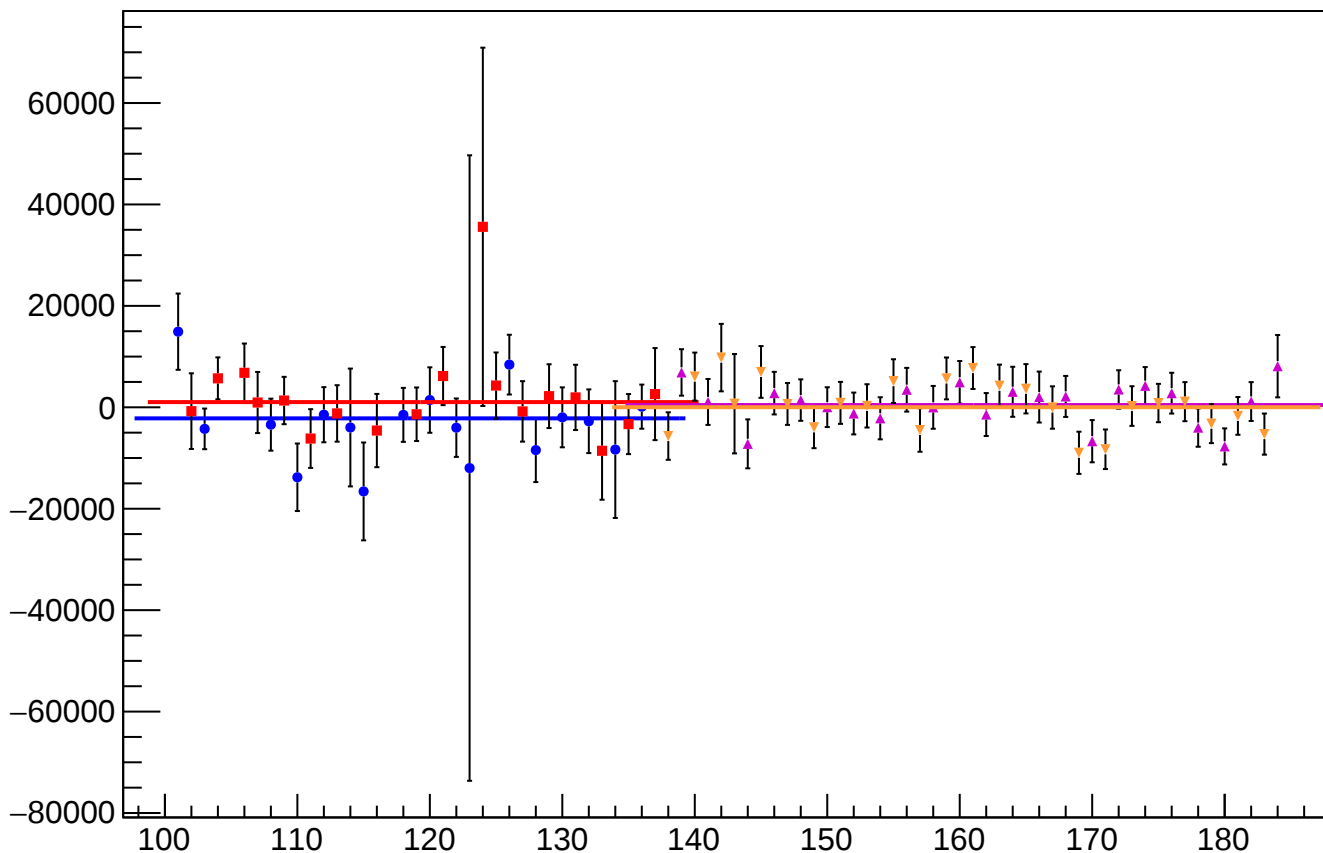
Left In: 1761.158 $\pm$ 0.298  $\chi^2$ /NDF: 215162.1/22

+ sign 1735.046 $\pm$ 0.249  $\chi^2$ /NDF: 1159045.0/40

All: 1728.000 $\pm$ 0.176  $\chi^2$ /NDF: 1992638.2/83

- sign 1721.015 $\pm$ 0.248  $\chi^2$ /NDF: 832001.1/40

# asym\_at2\_dd\_correction\_mean vs Slug



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

Left Out:  $19.417 \pm 876.226$   $\chi^2/\text{NDF}$ : 29.6/23

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

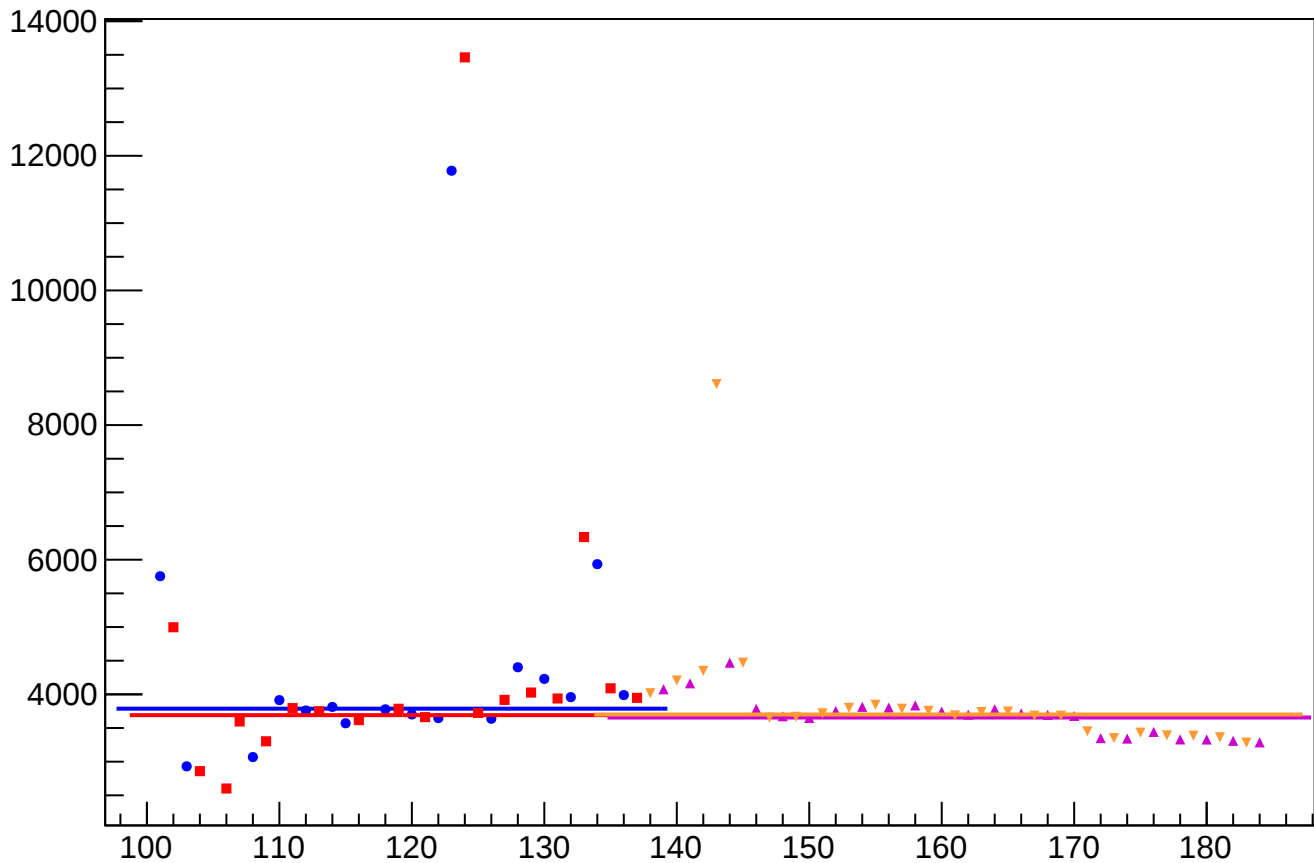
Left In:  $444.358 \pm 874.185$   $\chi^2/\text{NDF}$ : 21.1/22

+ sign  $-543.856 \pm 755.696$   $\chi^2/\text{NDF}$ : 47.2/40

All:  $34.687 \pm 531.469$   $\chi^2/\text{NDF}$ : 78.1/81

- sign  $600.886 \pm 747.591$   $\chi^2/\text{NDF}$ : 29.8/40

# asym\_at2\_dd\_correction\_rms vs Slug



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

Left Out: 3701.113+/-0.620  $\chi^2/\text{NDF}$ : 702395.3/23

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

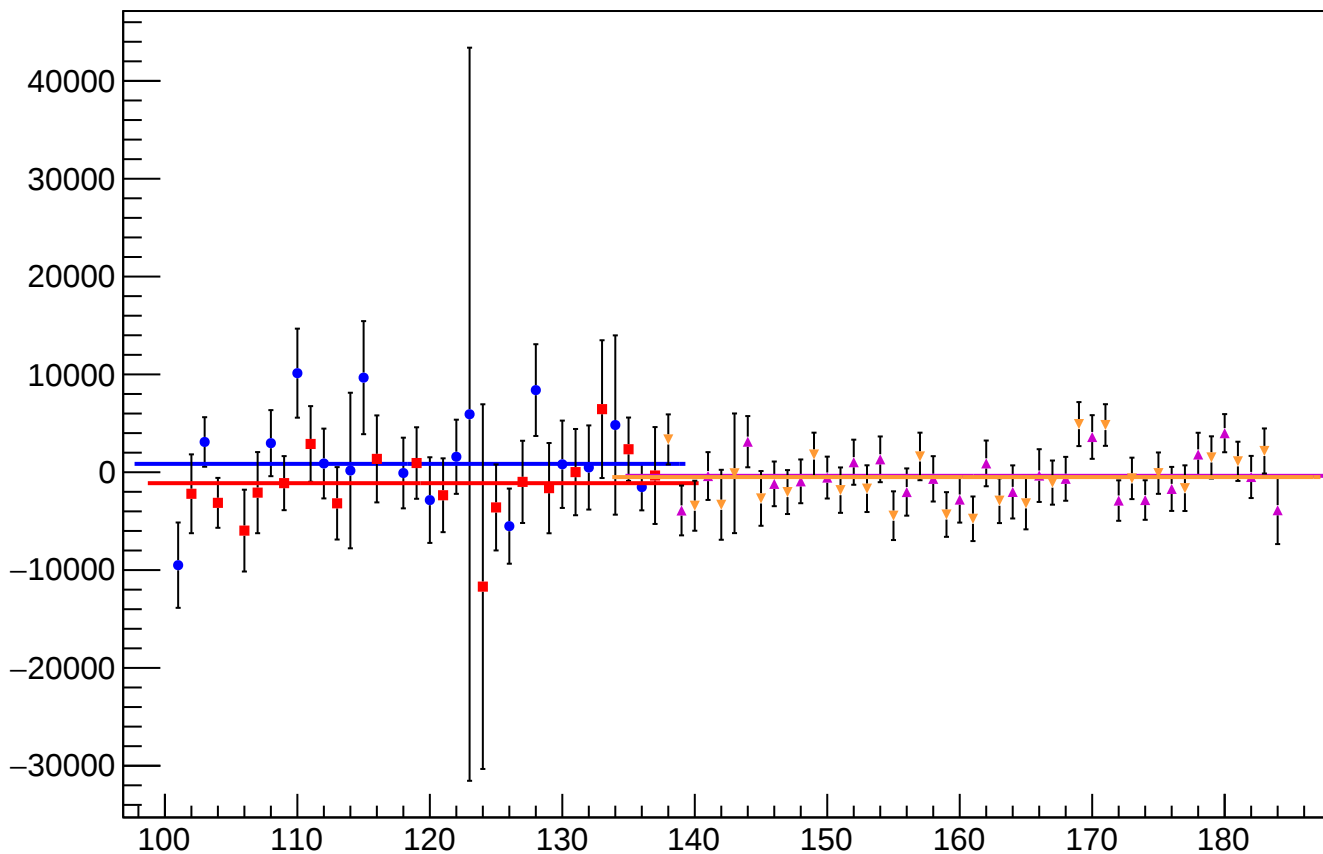
Left In: 3656.034+/-0.618  $\chi^2/\text{NDF}$ : 202126.4/22

+ sign 3723.194+/-0.534  $\chi^2/\text{NDF}$ : 1100003.5/40

All: 3694.033+/-0.376  $\chi^2/\text{NDF}$ : 1864051.4/81

- sign 3665.494+/-0.529  $\chi^2/\text{NDF}$ : 758155.3/40

# asym\_at2\_dd\_mean vs Slug



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

Left Out:  $-494.283 \pm 485.466$   $\chi^2/\text{NDF}$ : 33.9/23

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

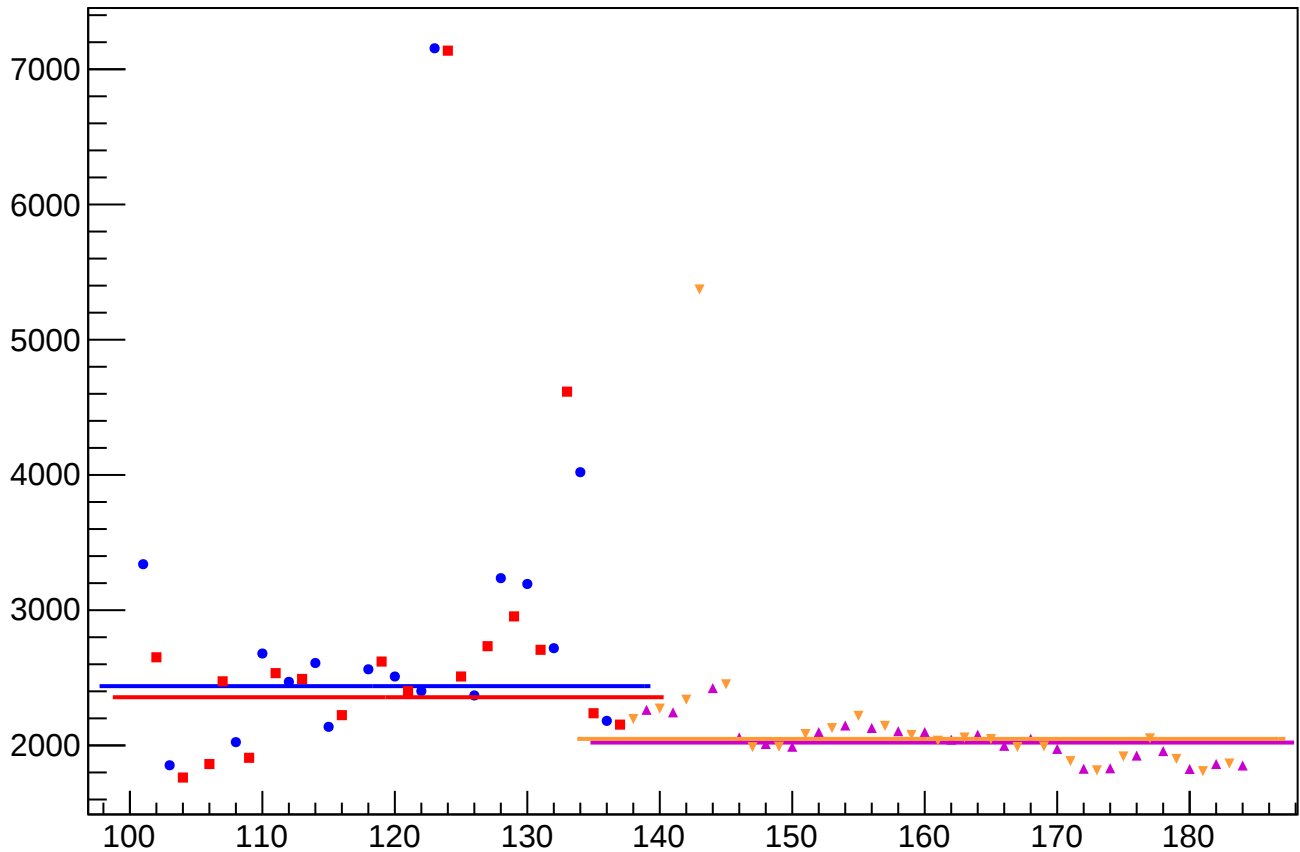
Left In:  $-366.243 \pm 483.092$   $\chi^2/\text{NDF}$ : 20.5/22

+ sign  $-221.415 \pm 433.656$   $\chi^2/\text{NDF}$ : 56.1/40

All:  $-375.885 \pm 304.776$   $\chi^2/\text{NDF}$ : 84.7/81

- sign  $-526.653 \pm 428.428$   $\chi^2/\text{NDF}$ : 28.3/40

# asym\_at2\_dd\_rms vs Slug



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

Left Out:  $2048.273 \pm 0.343$   $\chi^2/\text{NDF}$ : 782256.5/23

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

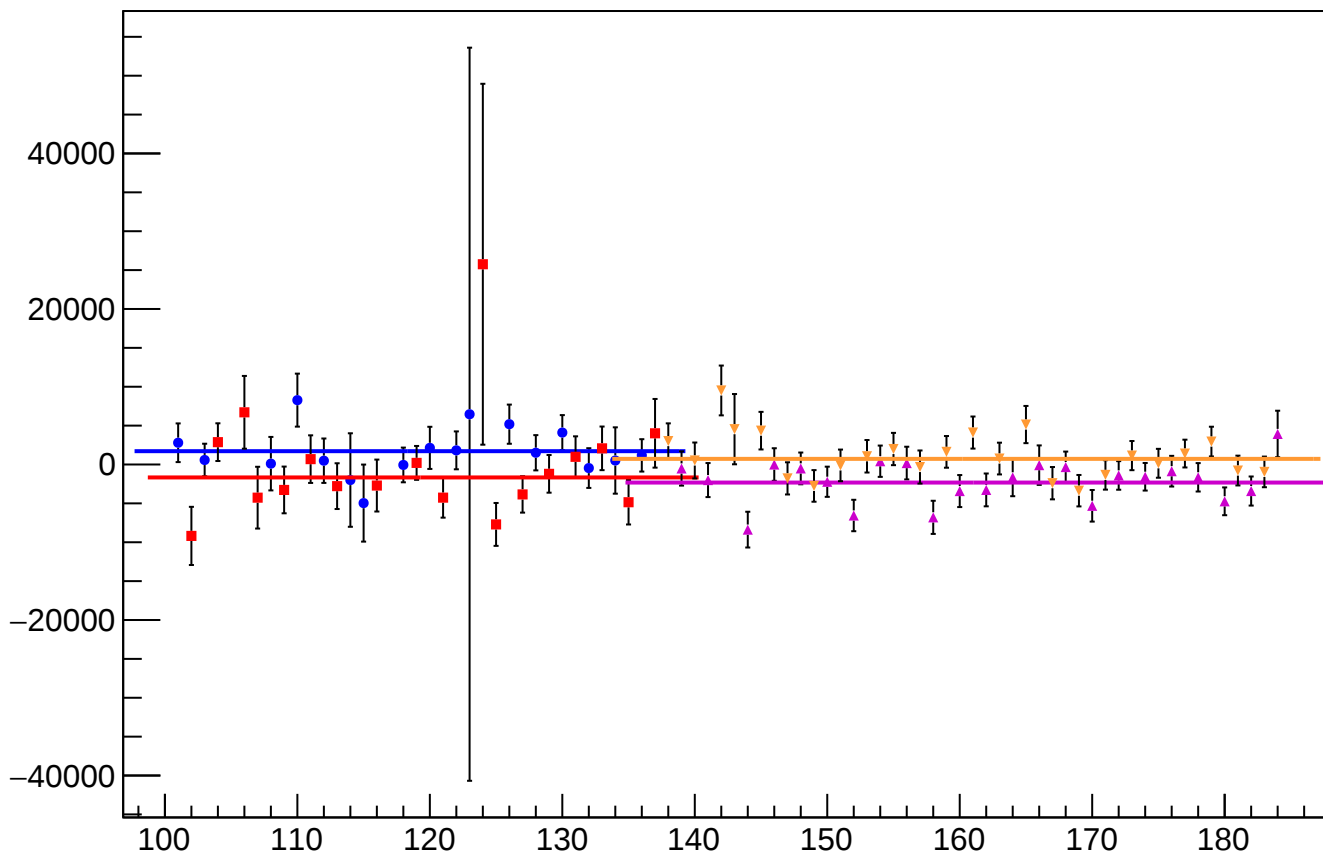
Left In:  $2021.065 \pm 0.342$   $\chi^2/\text{NDF}$ : 178726.2/22

+ sign  $2127.074 \pm 0.307$   $\chi^2/\text{NDF}$ : 1519785.1/40

All:  $2109.660 \pm 0.216$   $\chi^2/\text{NDF}$ : 2539774.3/83

- sign  $2092.663 \pm 0.303$   $\chi^2/\text{NDF}$ : 1013616.0/40

# dit\_asym\_atl\_avg\_mean vs Slug



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

Left Out:  $723.600 \pm 428.989$   $\chi^2/\text{NDF}$ : 33.6/23

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

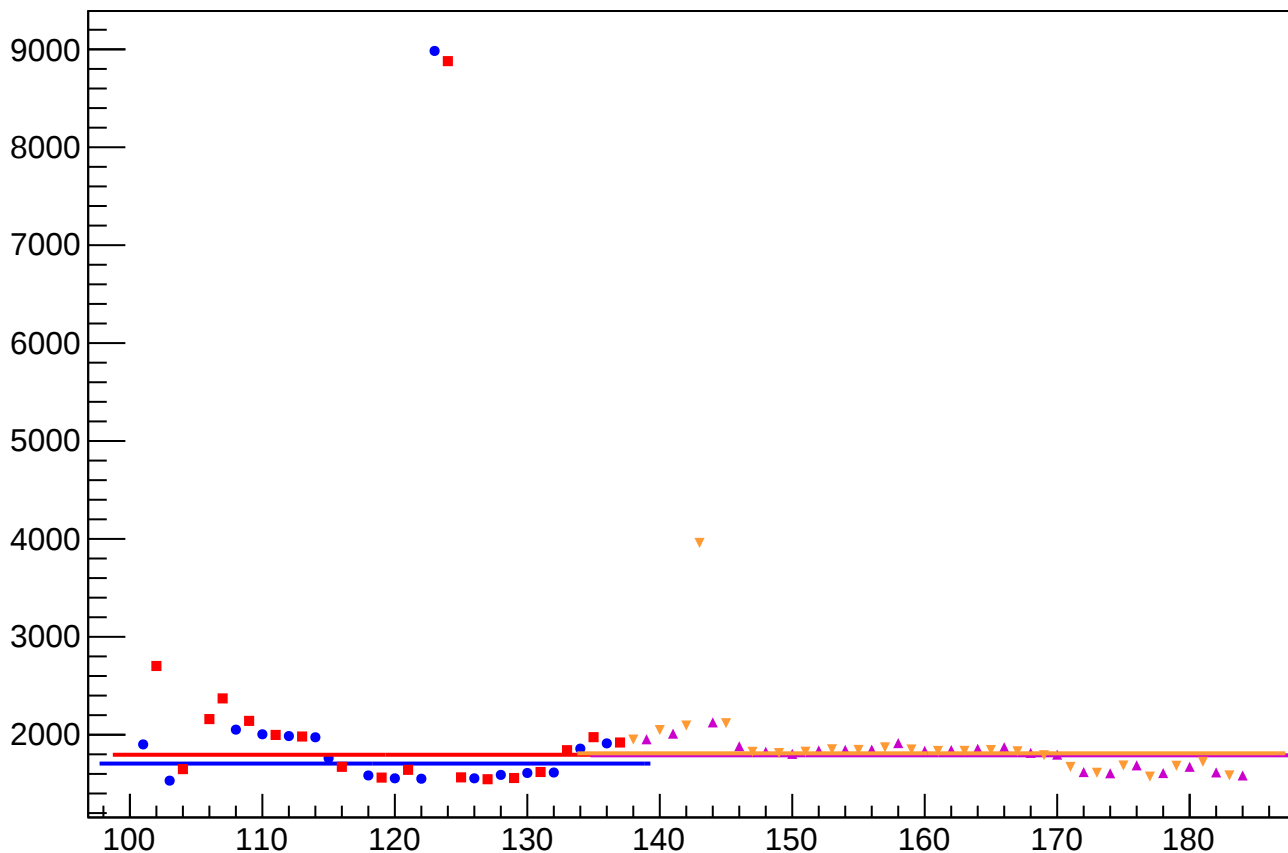
Left In:  $-2323.976 \pm 428.861$   $\chi^2/\text{NDF}$ : 33.9/22

+ sign  $1012.895 \pm 360.830$   $\chi^2/\text{NDF}$ : 46.5/40

All:  $-546.432 \pm 256.631$   $\chi^2/\text{NDF}$ : 145.7/81

- sign  $-2142.620 \pm 365.070$   $\chi^2/\text{NDF}$ : 61.4/40

dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1705.624 $\pm$ 0.472  $\chi^2$ /NDF: 194174.2/16

Left Out: 1810.388 $\pm$ 0.303  $\chi^2$ /NDF: 651377.2/23

Right Out: 1795.574 $\pm$ 0.491  $\chi^2$ /NDF: 518805.1/17

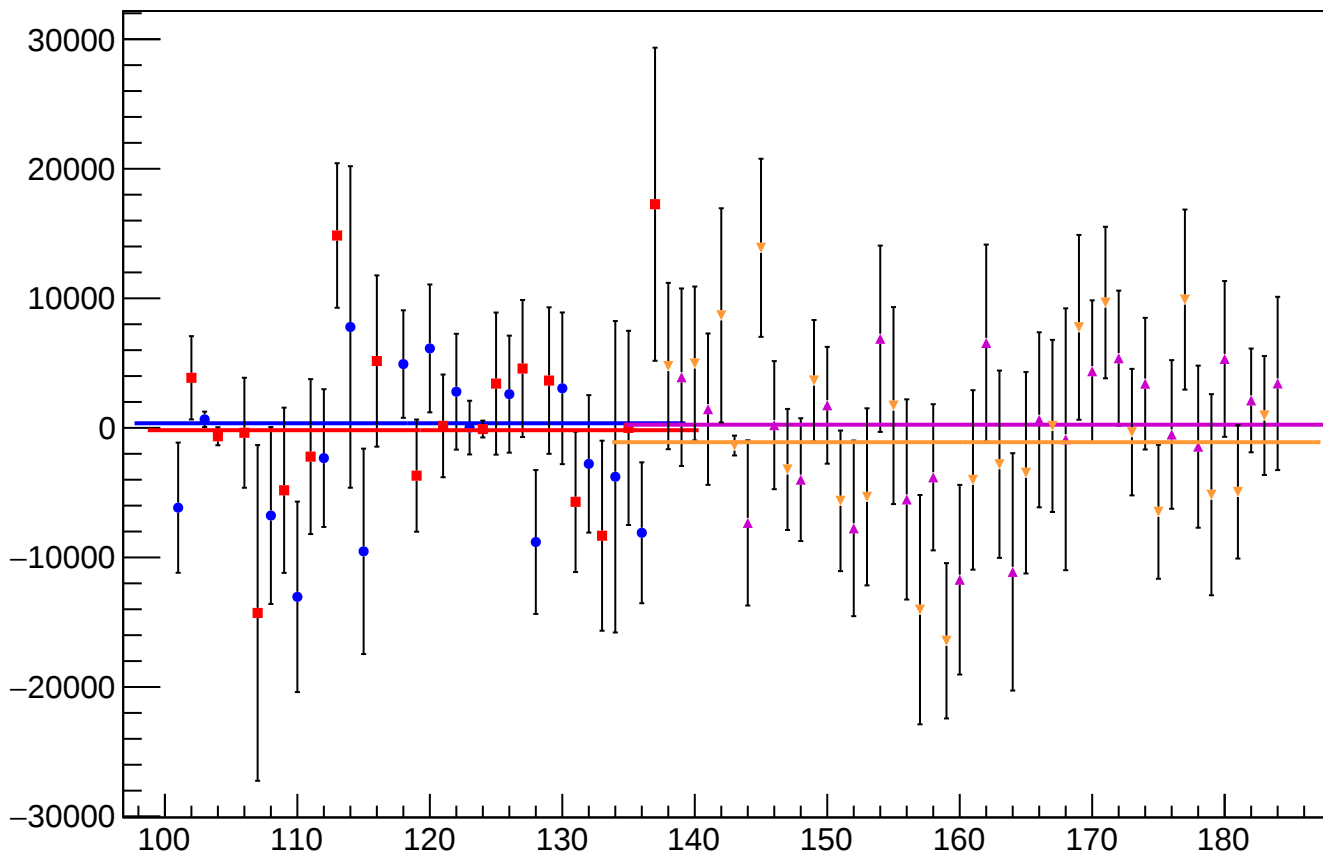
Left In: 1789.929 $\pm$ 0.303  $\chi^2$ /NDF: 195626.5/22

+ sign 1779.742 $\pm$ 0.255  $\chi^2$ /NDF: 880443.0/40

All: 1785.550 $\pm$ 0.181  $\chi^2$ /NDF: 1596018.3/81

- sign 1791.488 $\pm$ 0.258  $\chi^2$ /NDF: 714527.3/40

# asym\_atl\_avg\_correction\_mean vs Slug



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

Left Out: -1103.711 $\pm$ 655.555  $\chi^2$ /NDF:29.2/23

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

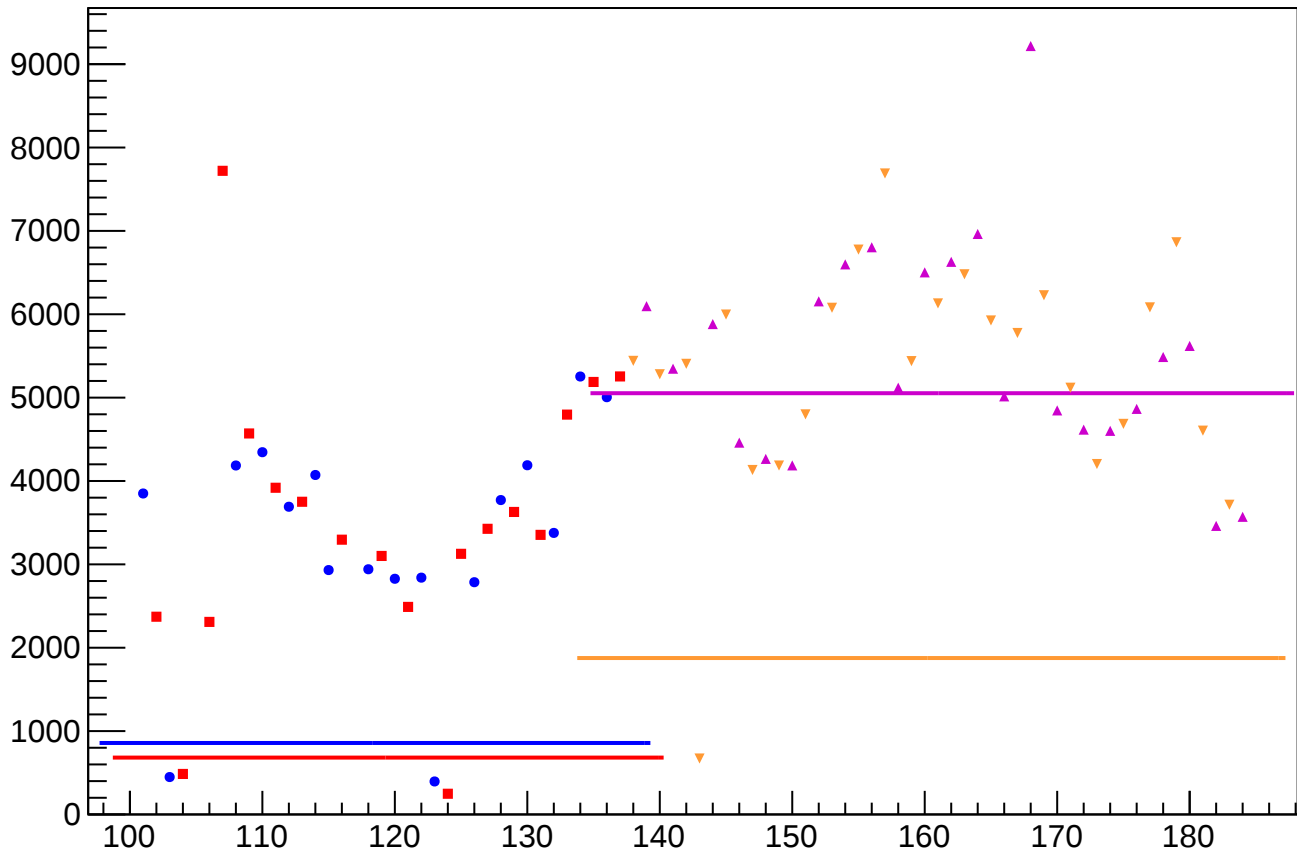
Left In: 245.230 $\pm$ 1234.737  $\chi^2$ /NDF:14.1/22

+ sign -224.581 $\pm$ 413.655  $\chi^2$ /NDF: 49.7/40

All: -178.048 $\pm$ 294.820  $\chi^2$ /NDF: 82.4/81

- sign -130.007 $\pm$ 420.301  $\chi^2$ /NDF: 32.7/40

# asym\_atl\_avg\_correction\_rms vs Slug



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

Left Out: 1876.304+/-0.464  $\chi^2/\text{NDF}$ : 19637672.3/23

+ sign 1263.130+/-0.292  $\chi^2/\text{NDF}$ : 30720289.0/40

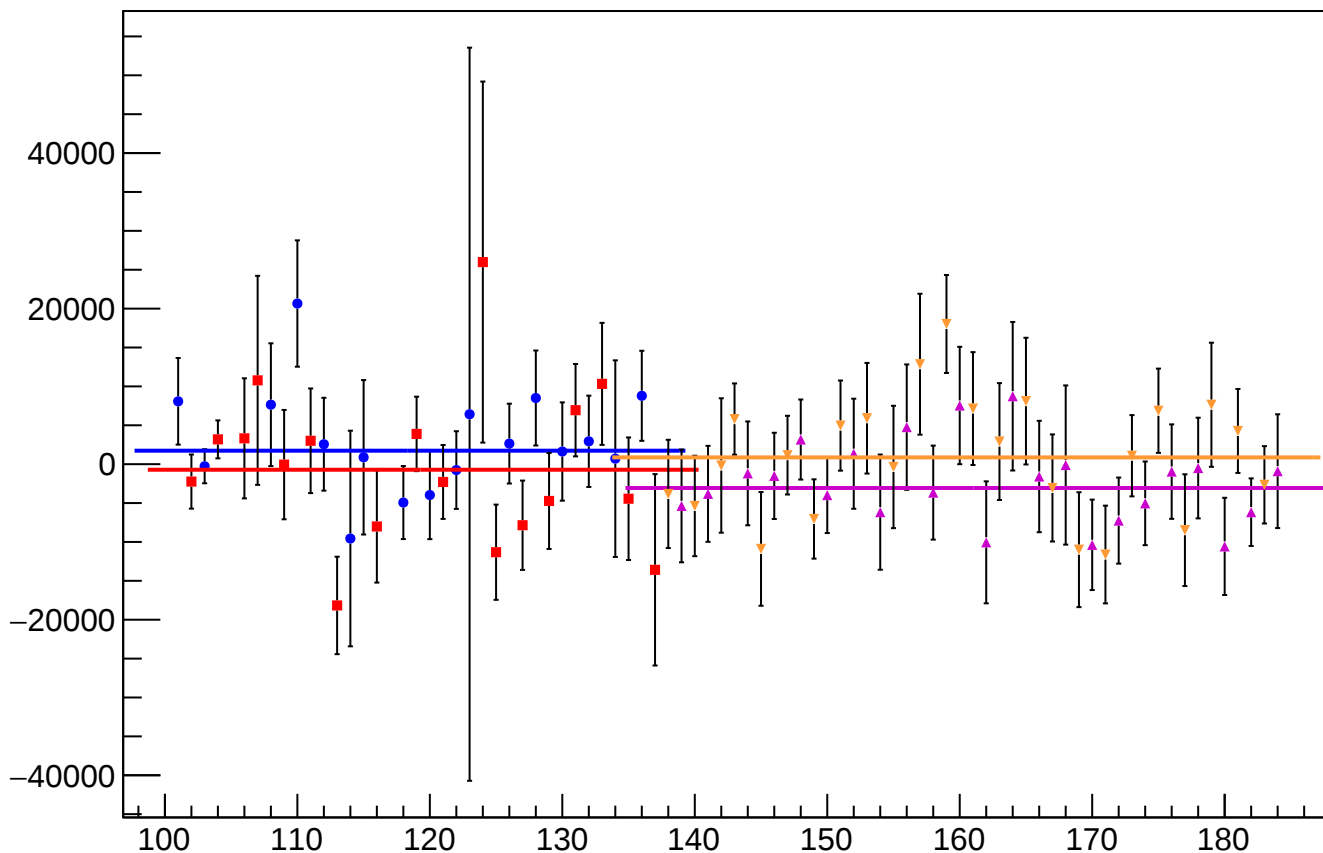
Right Out: 682.114+/-0.316  $\chi^2/\text{NDF}$ : 9378570.8/17

All: 1226.444+/-0.208  $\chi^2/\text{NDF}$ : 63848126.9/8

- sign 1188.571+/-0.297  $\chi^2/\text{NDF}$ : 33095867.4/40

Left In: 5053.000+/-0.873  $\chi^2/\text{NDF}$ : 1559012.3/22

# asym\_atl\_avg\_mean vs Slug



Right In: 1733.273 $\pm$ 1304.606  $\chi^2$ /NDF: 14.9/16

Left Out: 870.528 $\pm$ 1288.839  $\chi^2$ /NDF:30.8/23

Right Out: -715.502 $\pm$ 1290.698  $\chi^2$ /NDF: 25.1/17

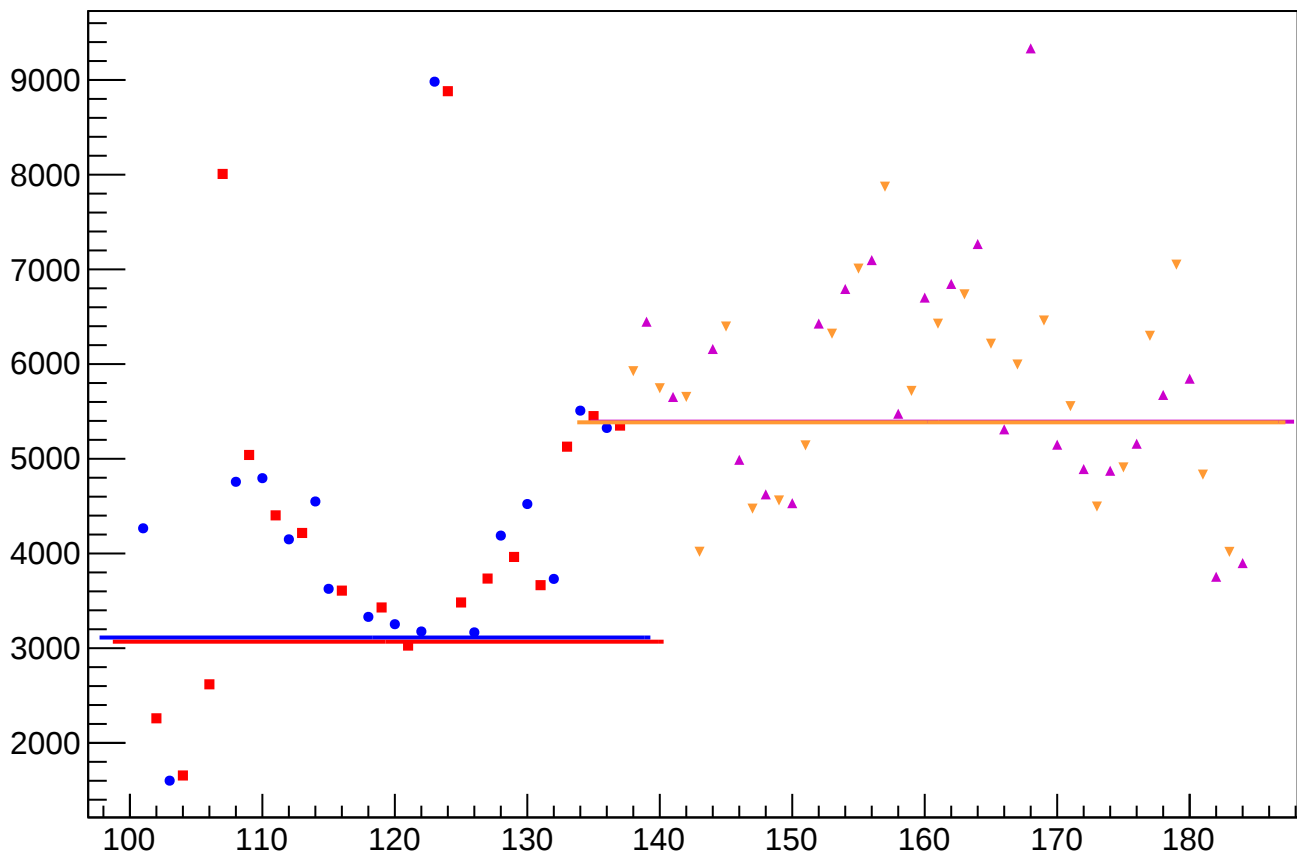
Left In: -3061.439 $\pm$ 1313.197  $\chi^2$ /NDF:12.3/22

+ sign 1296.655 $\pm$ 916.871  $\chi^2$ /NDF: 45.9/40

All: -279.499 $\pm$ 649.609  $\chi^2$ /NDF: 90.9/81

- sign -1868.202 $\pm$ 920.513  $\chi^2$ /NDF: 39.1/40

# asym\_atl\_avg\_rms vs Slug



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

Left Out: 5385.024 $\pm$ 0.911     $\chi^2$ /NDF:1184590.9/23

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

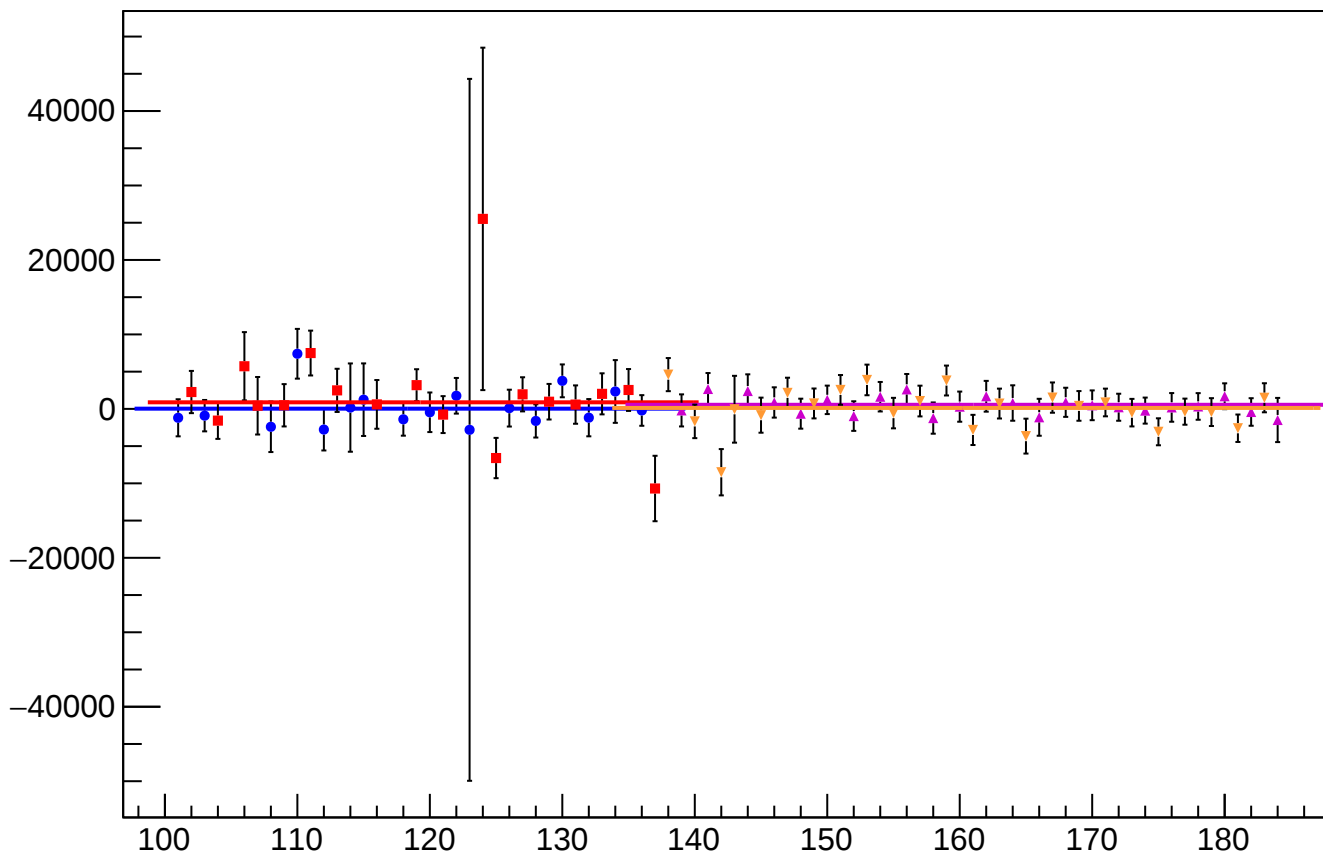
Left In: 5391.987 $\pm$ 0.929     $\chi^2$ /NDF:1320415.5/22

+ sign 4262.664 $\pm$ 0.648     $\chi^2$ /NDF: 6139805.6/40

All: 4227.804 $\pm$ 0.458     $\chi^2$ /NDF: 12697826.5/80

- sign 4193.190 $\pm$ 0.646     $\chi^2$ /NDF: 6552258.9/40

# dit\_asym\_atl\_dd\_mean vs Slug



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

Left Out: 126.129 $\pm$ 420.591  $\chi^2$ /NDF:33.7/23

Right Out: 882.685 $\pm$ 674.623  $\chi^2$ /NDF: 25.6/17

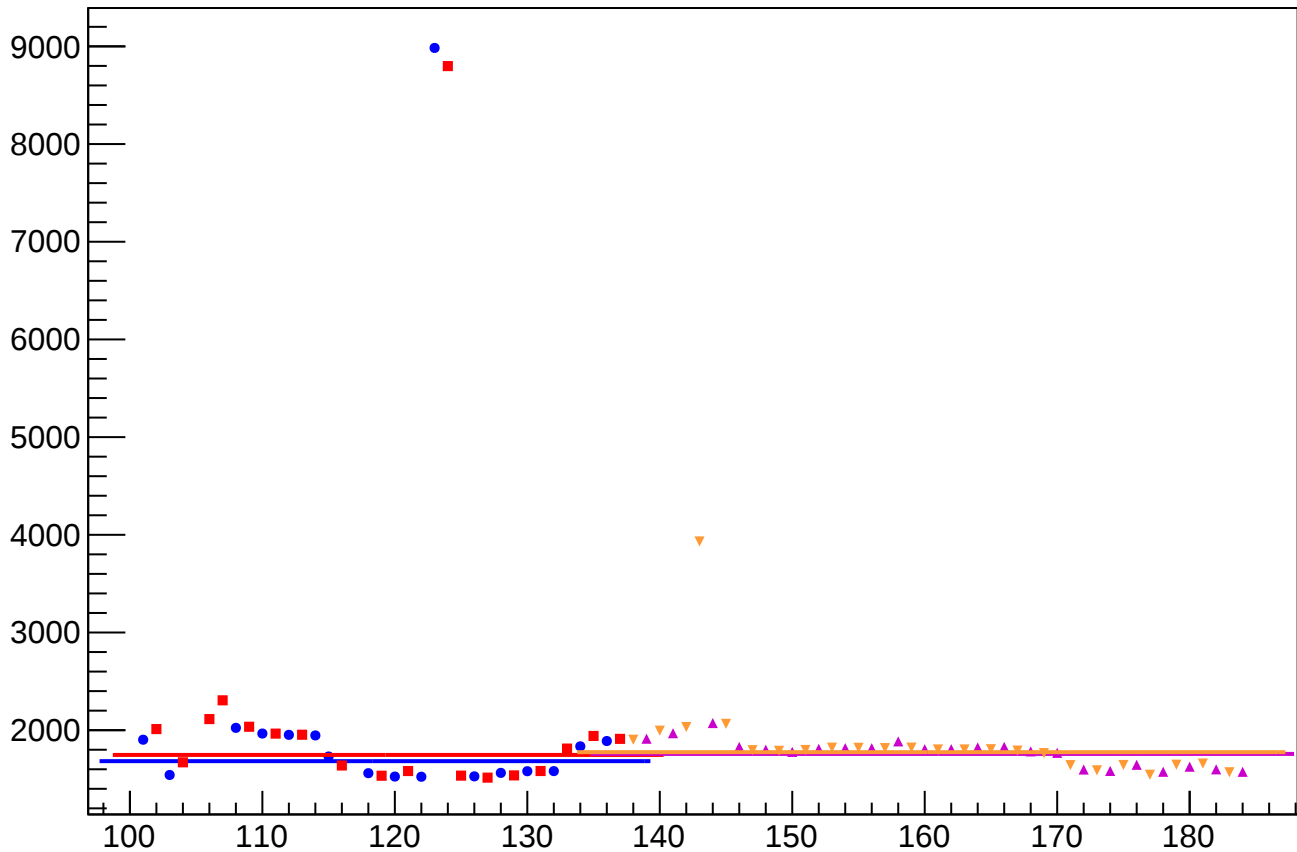
Left In: 549.051 $\pm$ 420.967  $\chi^2$ /NDF:7.2/22

+ sign 98.010 $\pm$ 354.444  $\chi^2$ /NDF: 45.5/40

All: 368.219 $\pm$ 251.577  $\chi^2$ /NDF: 79.7/81

- sign 642.554 $\pm$ 357.139  $\chi^2$ /NDF: 33.0/40

# dit\_asym\_atl\_dd\_rms vs Slug



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

Left Out: 1775.055+/-0.297  $\chi^2/\text{NDF}$ : 652627.8/23

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

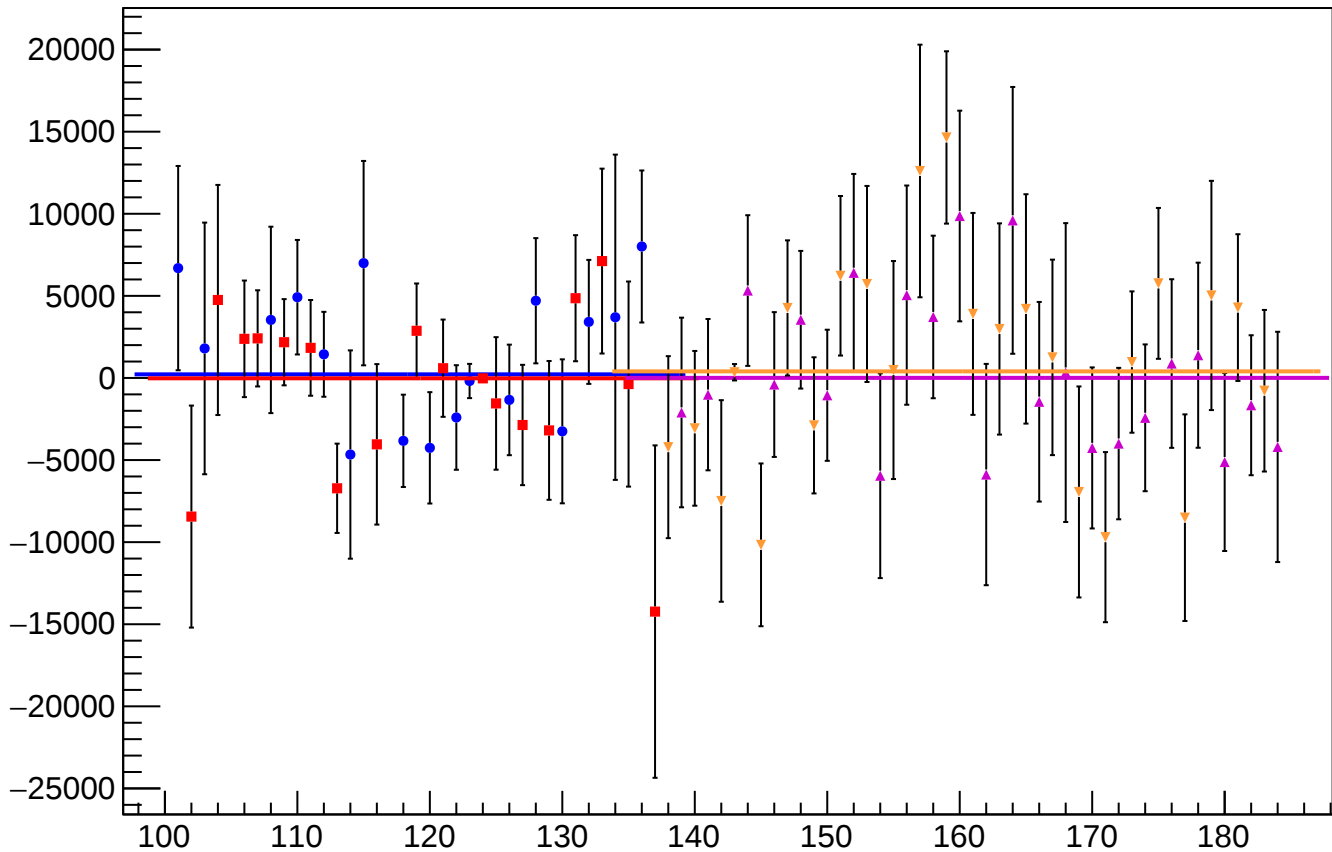
Left In: 1757.303+/-0.298  $\chi^2/\text{NDF}$ : 188004.2/22

+ sign 1748.412+/-0.251  $\chi^2/\text{NDF}$ : 876176.2/40

All: 1751.361+/-0.178  $\chi^2/\text{NDF}$ : 1471533.0/83

- sign 1754.351+/-0.252  $\chi^2/\text{NDF}$ : 595078.1/40

# asym\_atl\_dd\_correction\_mean vs Slug



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

Left Out:  $401.250 \pm 455.529$   $\chi^2/\text{NDF}$ : 31.6/23

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

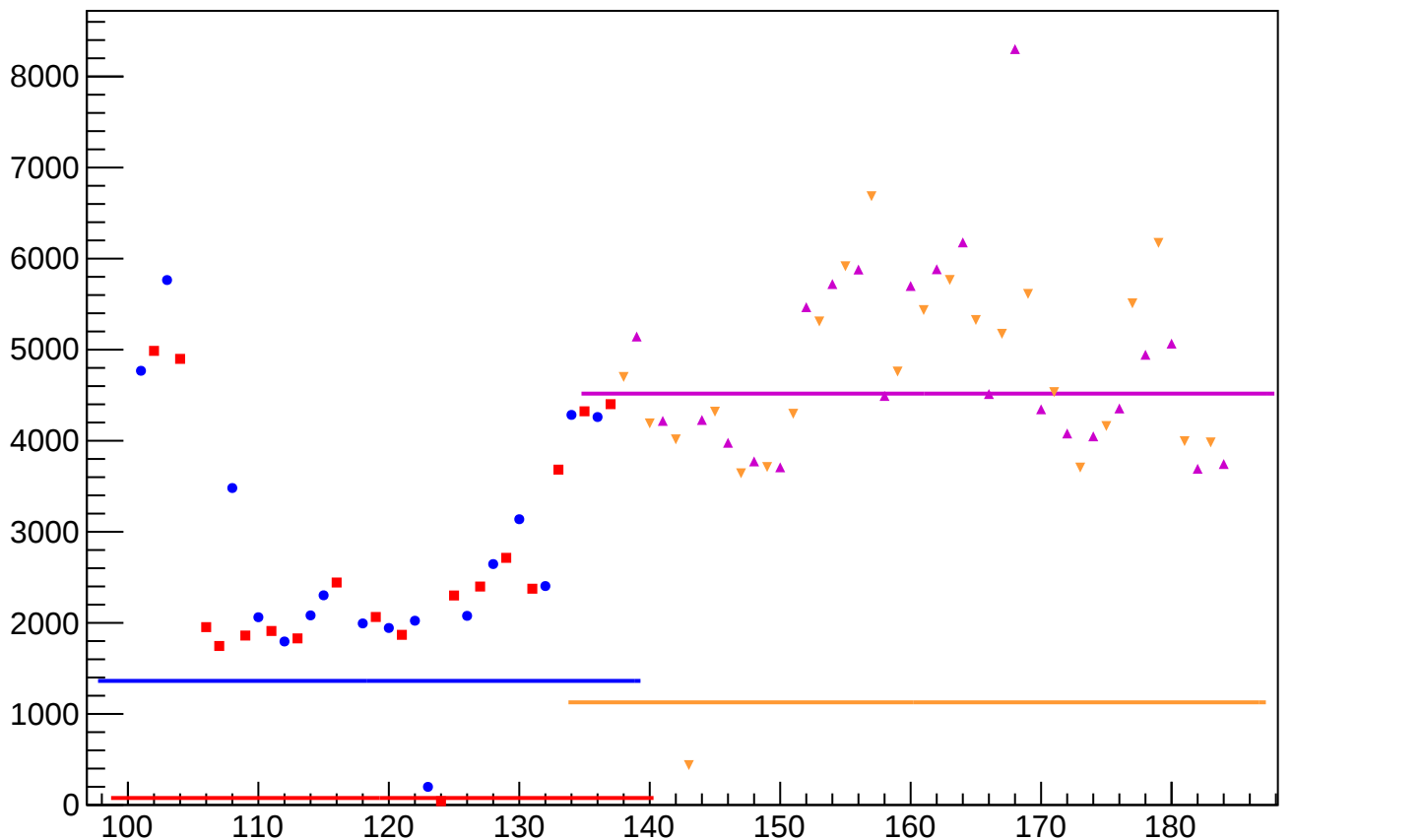
Left In:  $5.520 \pm 1097.521$   $\chi^2/\text{NDF}$ : 13.4/22

+ sign  $349.477 \pm 385.093$   $\chi^2/\text{NDF}$ : 47.5/40

All:  $8.023 \pm 108.890$   $\chi^2/\text{NDF}$ : 80.3/81

- sign  $-21.651 \pm 113.523$   $\chi^2/\text{NDF}$ : 31.9/40

# asym\_atl\_dd\_correction\_rms vs Slug



Right In: 1362.842+/-0.510  $\chi^2/\text{NDF}$ : 6235846.3/16

Left Out: 1127.414+/-0.322  $\chi^2/\text{NDF}$ : 23767585.9/23

Right Out: 76.832+/-0.081  $\chi^2/\text{NDF}$ : 13114372.5/17

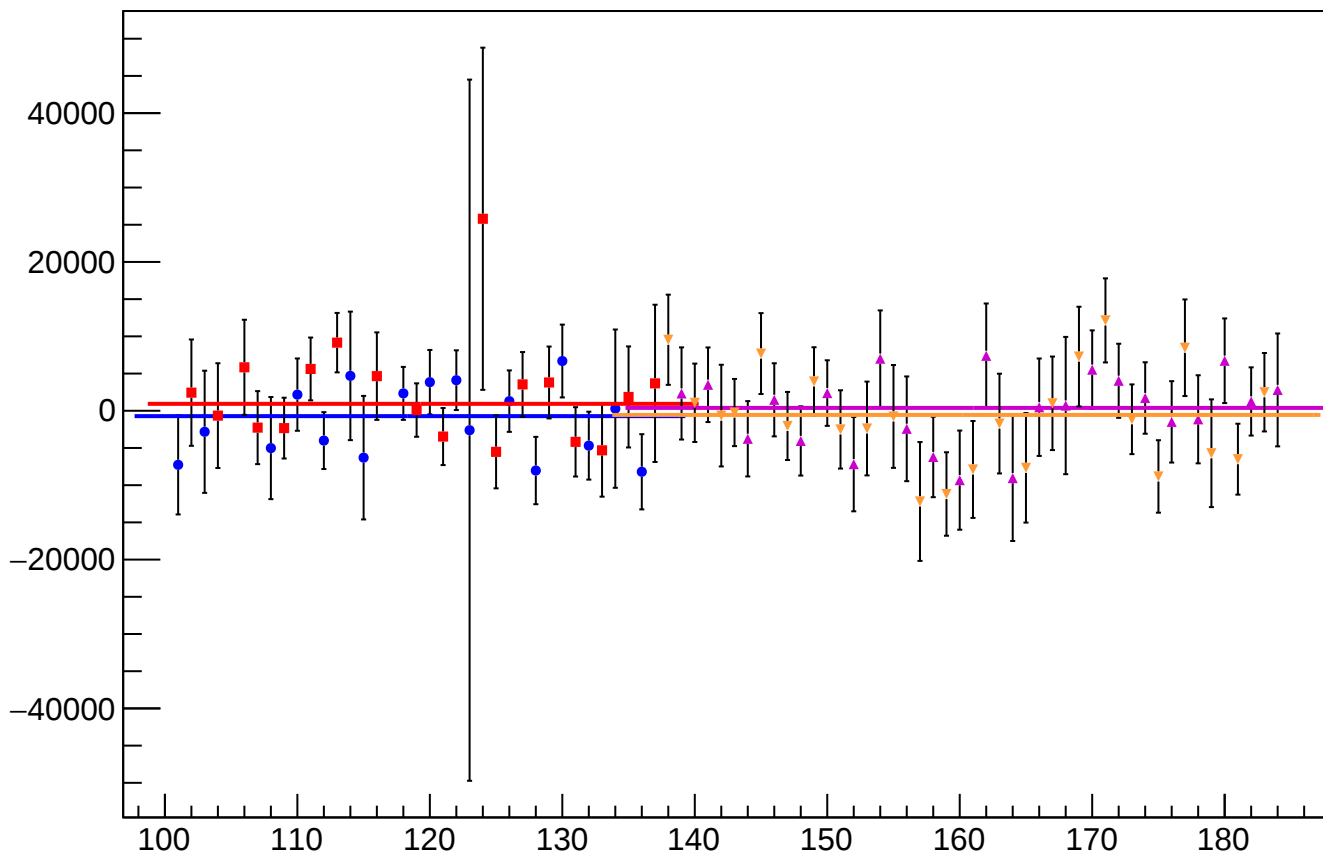
Left In: 4517.593+/-0.776  $\chi^2/\text{NDF}$ : 1177704.0/22

+ sign 1194.591+/-0.272  $\chi^2/\text{NDF}$ : 30155864.3/40

All: 209.915+/-0.077  $\chi^2/\text{NDF}$ : 91053354.5/83

- sign 124.344+/-0.080  $\chi^2/\text{NDF}$ : 46684798.7/40

# asym\_atl\_dd\_mean vs Slug



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

Left Out:  $-560.279 \pm 1157.620$   $\chi^2/\text{NDF}$ : 28.1/23

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

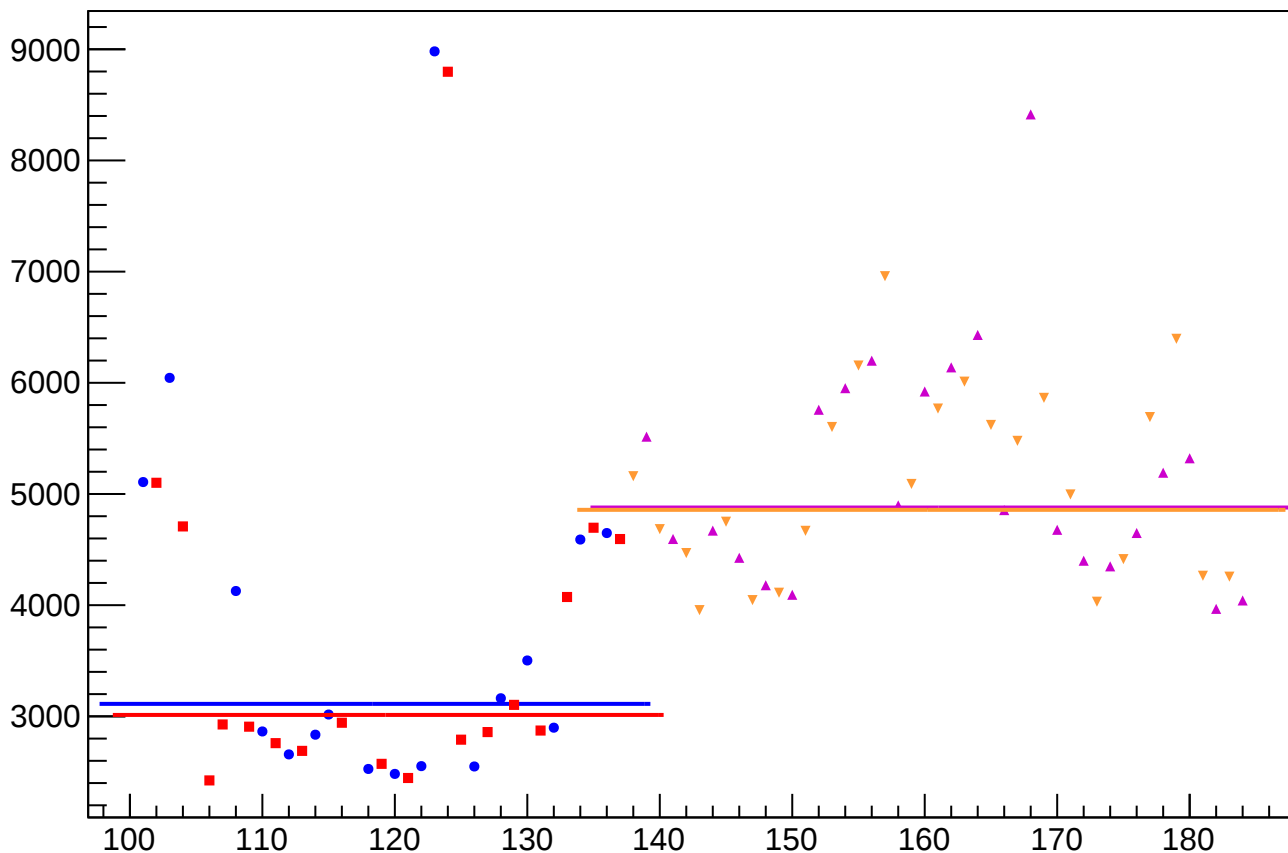
Left In:  $385.098 \pm 1181.458$   $\chi^2/\text{NDF}$ : 13.9/22

+ sign  $-634.543 \pm 850.133$   $\chi^2/\text{NDF}$ : 42.9/40

All:  $18.188 \pm 597.511$   $\chi^2/\text{NDF}$ : 73.0/81

- sign  $655.414 \pm 839.975$   $\chi^2/\text{NDF}$ : 28.9/40

# asym\_atl\_dd\_rms vs Slug



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

Left Out: 4857.432+/-0.819  $\chi^2/\text{NDF}$ : 897745.9/23

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

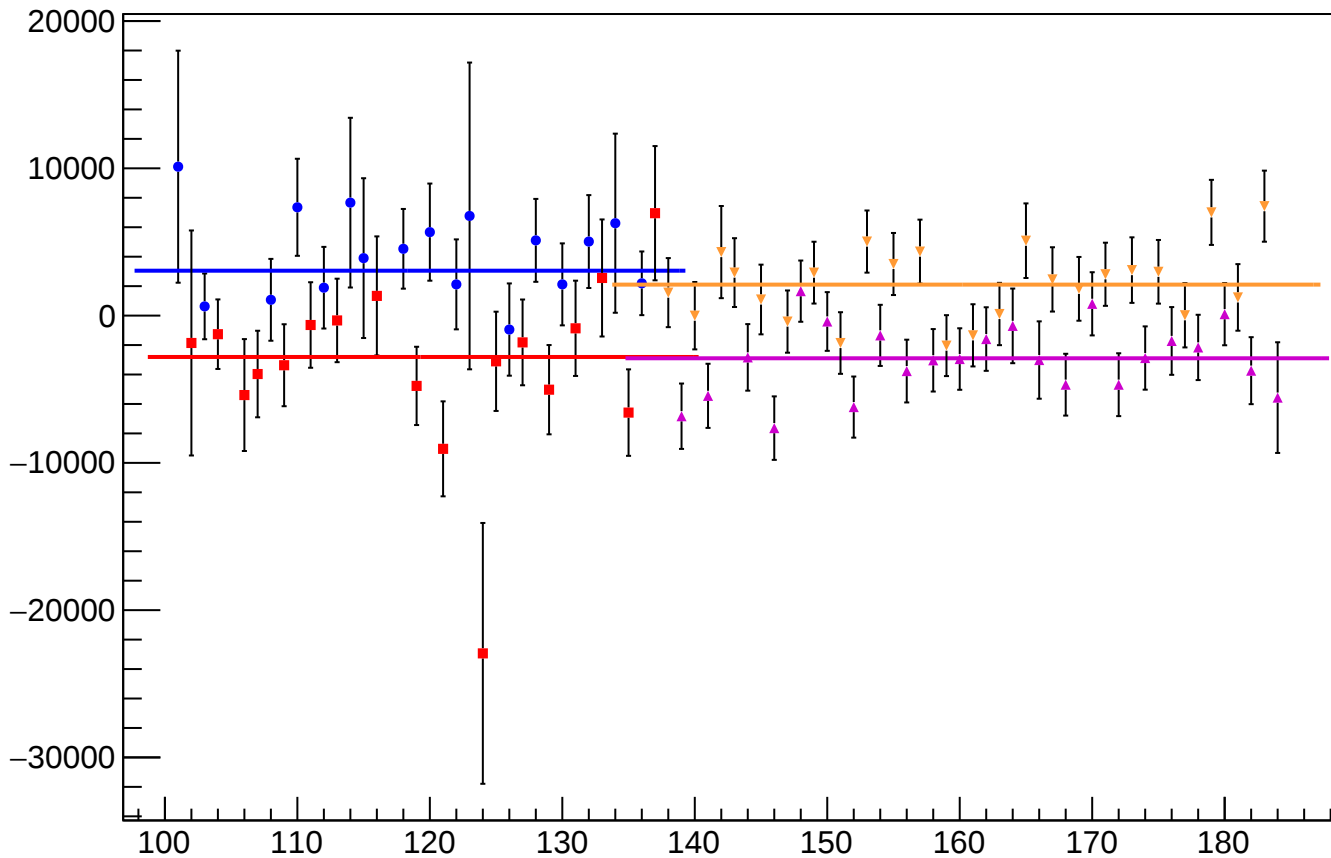
Left In: 4878.261+/-0.835  $\chi^2/\text{NDF}$ : 965222.2/22

+ sign 4053.439+/-0.601  $\chi^2/\text{NDF}$ : 3950335.9/40

All: 3997.701+/-0.421  $\chi^2/\text{NDF}$ : 8204017.4/81

- sign 3943.965+/-0.590  $\chi^2/\text{NDF}$ : 4236795.8/40

dit\_asym\_atr\_avg\_mean vs Slug



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

Left Out: 2103.899+/-453.871  $\chi^2/\text{NDF}$ :30.6/23

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

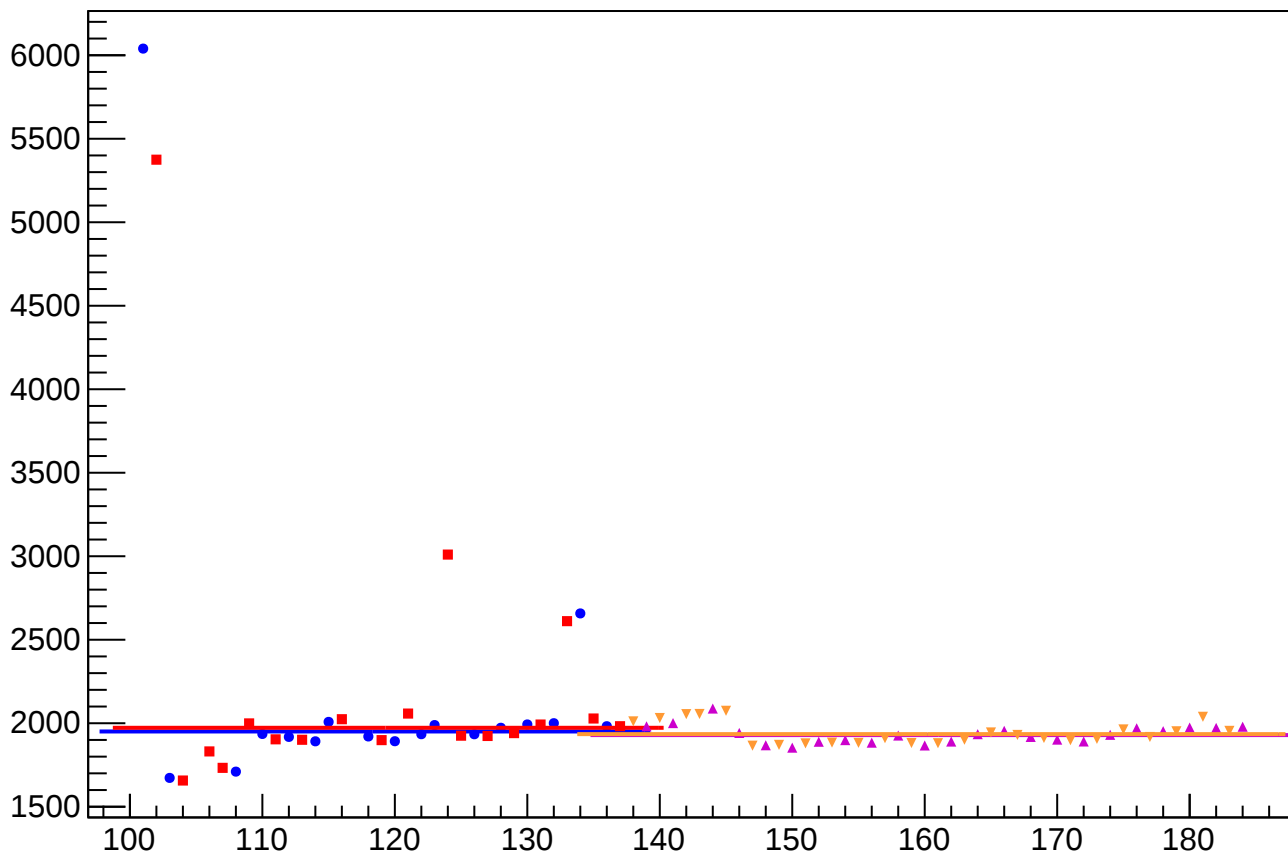
Left In: -2897.812+/-460.232  $\chi^2/\text{NDF}$ :27.6/22

+ sign 2346.531+/-391.303  $\chi^2/\text{NDF}$ : 41.0/40

All: -242.438+/-277.827  $\chi^2/\text{NDF}$ : 178.9/81

- sign -2874.296+/-394.531  $\chi^2/\text{NDF}$ : 49.6/40

# dit\_asym\_atr\_avg\_rms vs Slug



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

Left Out: 1934.796 $\pm$ 0.321  $\chi^2$ /NDF:38231.4/23

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

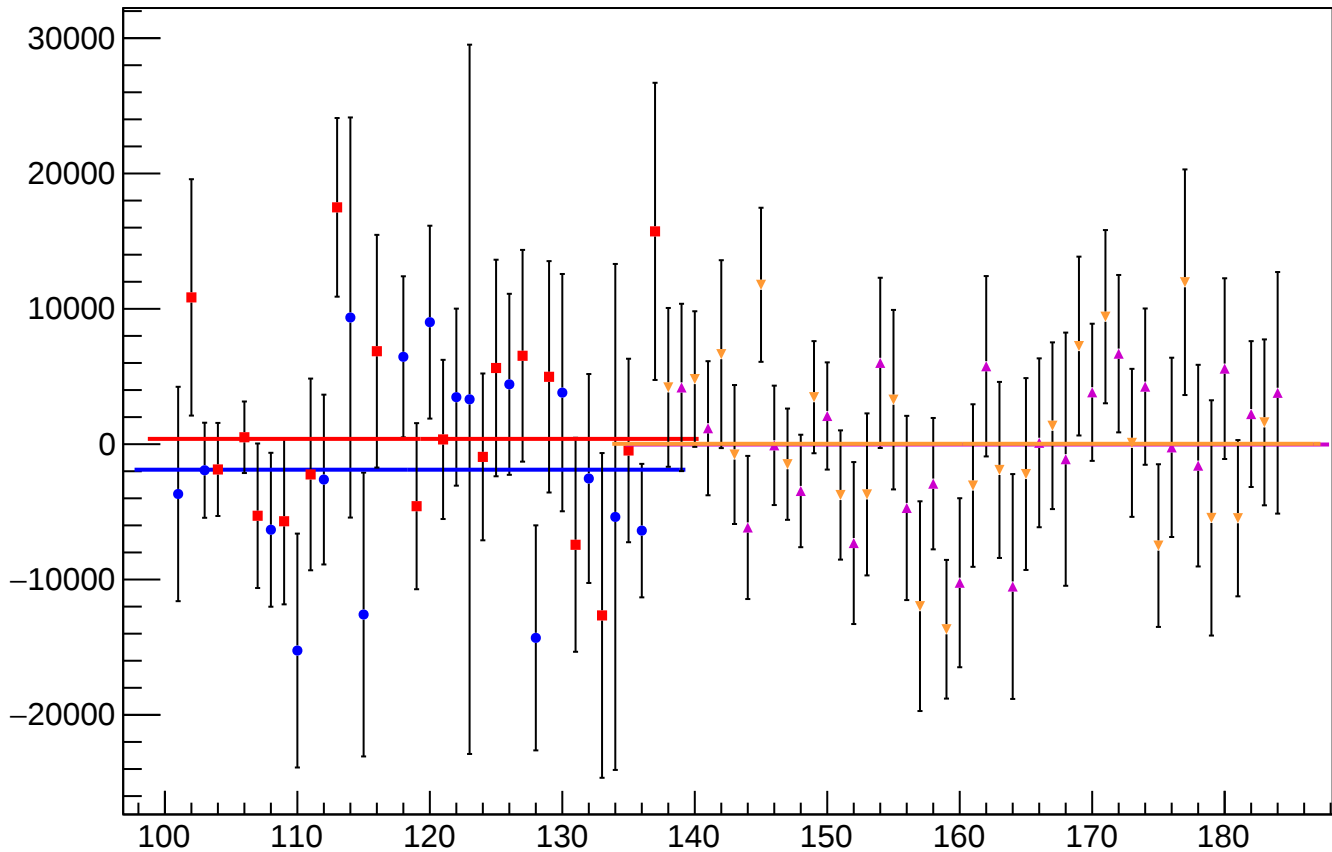
Left In: 1929.054 $\pm$ 0.325  $\chi^2$ /NDF:26352.7/22

+ sign 1938.877 $\pm$ 0.277  $\chi^2$ /NDF: 654026.4/40

All: 1939.753 $\pm$ 0.196  $\chi^2$ /NDF: 1220848.3/83

- sign 1940.643 $\pm$ 0.279  $\chi^2$ /NDF: 566801.6/40

# asym\_atr\_avg\_correction\_mean vs Slug



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

Left Out: 29.013 $\pm$ 1182.207  $\chi^2$ /NDF: 27.1/23

Right Out: 391.453 $\pm$ 1361.685  $\chi^2$ /NDF: 17.6/17

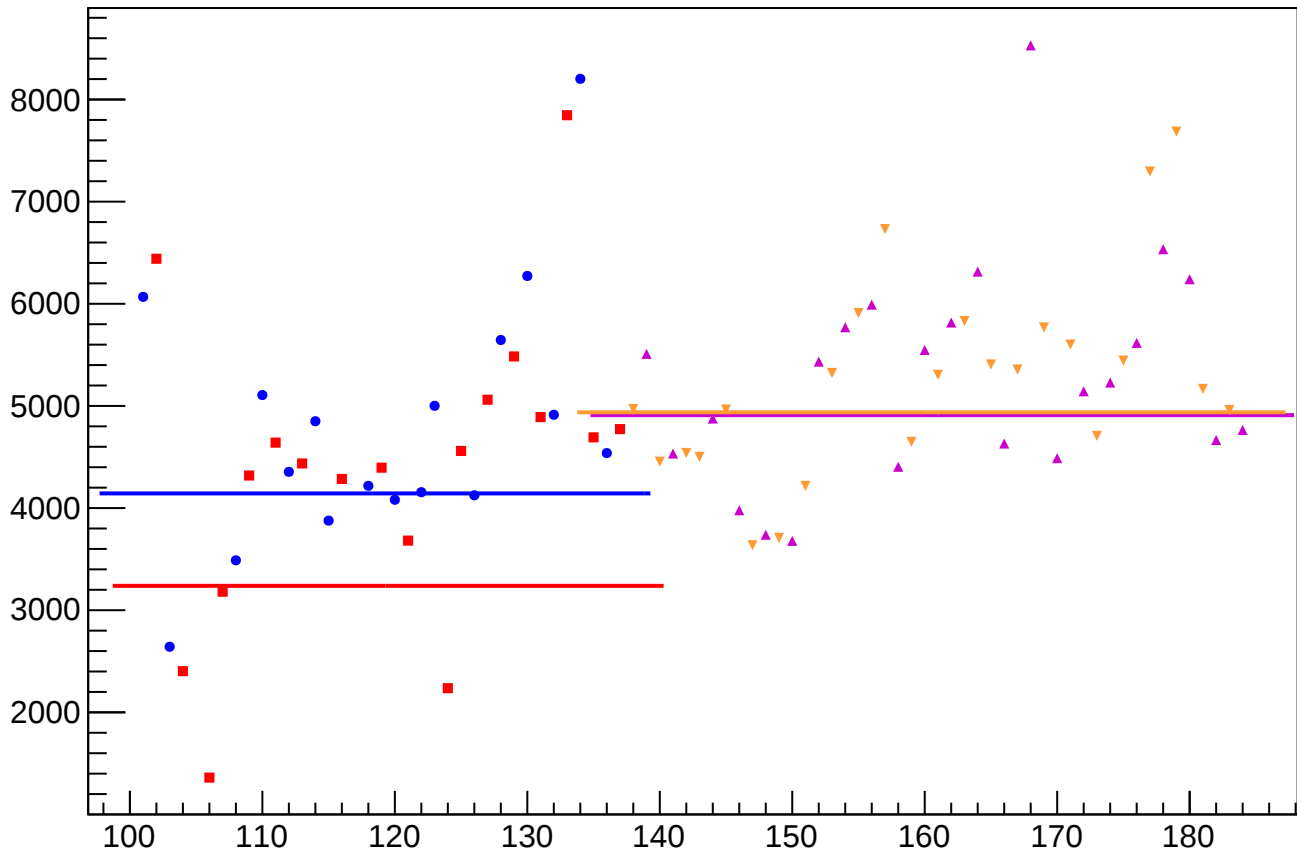
Left In: -24.107 $\pm$ 1193.917  $\chi^2$ /NDF: 14.7/22

+ sign -616.216 $\pm$ 962.567  $\chi^2$ /NDF: 42.1/40

All: -202.948 $\pm$ 656.511  $\chi^2$ /NDF: 74.7/81

- sign 156.510 $\pm$ 897.716  $\chi^2$ /NDF: 32.3/40

# asym\_atr\_avg\_correction\_rms vs Slug



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

Left Out: 4937.759+/-0.836  $\chi^2/\text{NDF}$ : 1123998.4/23

+ sign 4670.040+/-0.681  $\chi^2/\text{NDF}$ : 2284266.3/40

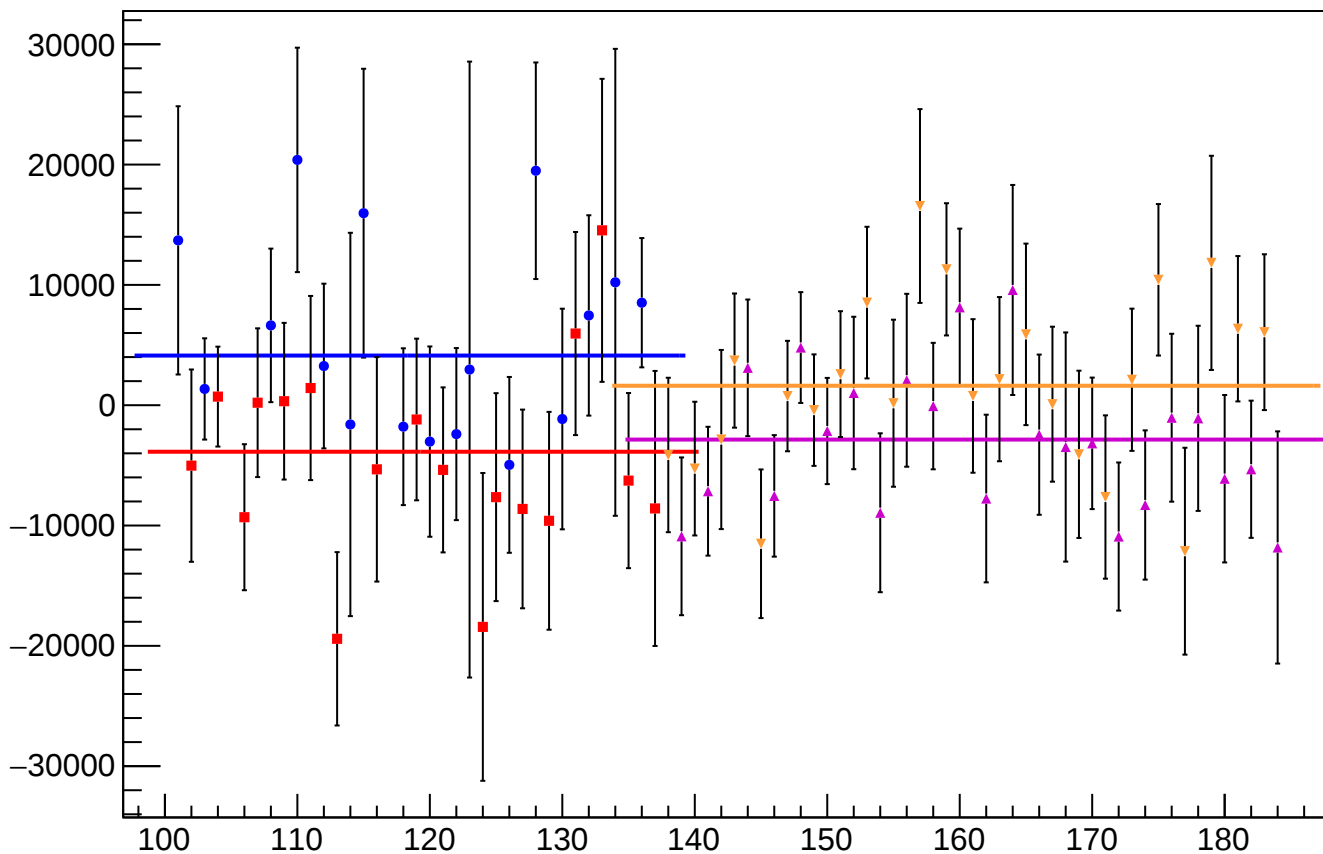
Right Out: 3238.590+/-0.963  $\chi^2/\text{NDF}$ : 2581960.1/17

All: 4409.790+/-0.464  $\chi^2/\text{NDF}$ : 8083308.5/83

Left In: 4909.787+/-0.844  $\chi^2/\text{NDF}$ : 1240536.9/22

- sign 4183.427+/-0.635  $\chi^2/\text{NDF}$ : 5525677.6/40

# asym\_atr\_avg\_mean vs Slug



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

Left Out: 1617.825 $\pm$ 1270.436  $\chi^2$ /NDF: 25.3/23

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

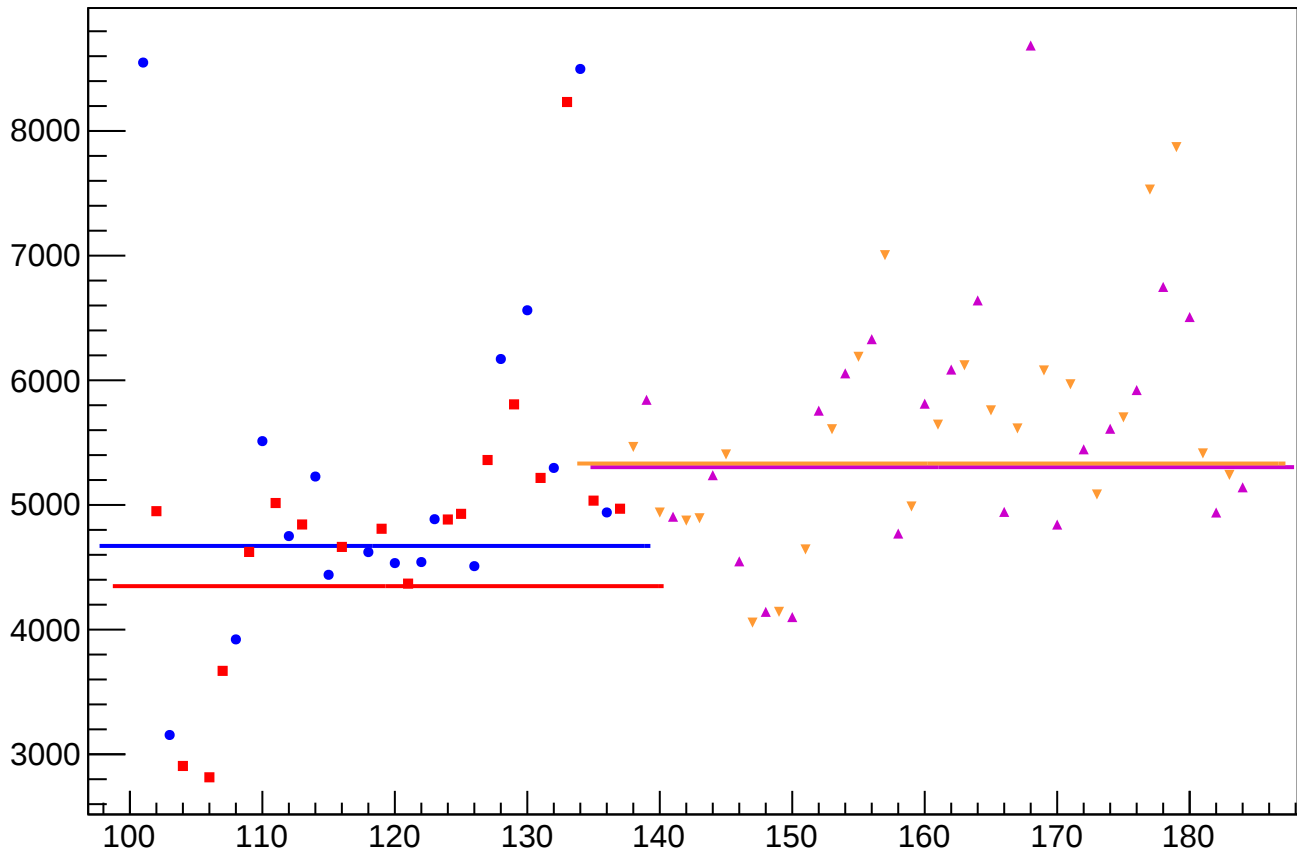
Left In: -2856.480 $\pm$ 1284.131  $\chi^2$ /NDF: 18.1/22

+ sign 2414.133 $\pm$ 1049.625  $\chi^2$ /NDF: 40.2/40

All: -452.440 $\pm$ 735.372  $\chi^2$ /NDF: 87.4/81

- sign -3215.947 $\pm$ 1030.583  $\chi^2$ /NDF: 32.6/40

# asym\_atr\_avg\_rms vs Slug



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

Left Out: 5332.350+/-0.898     $\chi^2/\text{NDF}$ : 867396.5/23

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

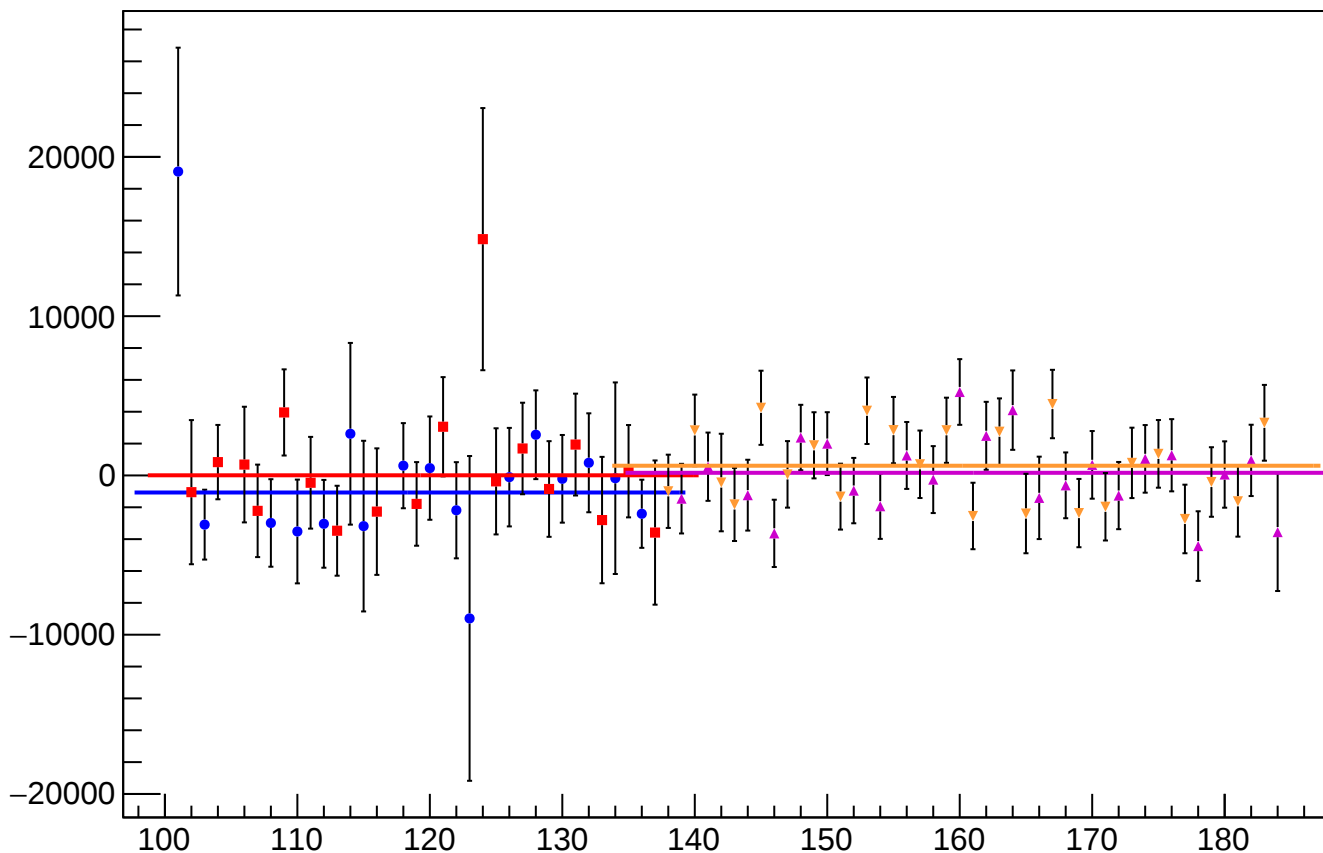
Left In: 5303.321+/-0.908     $\chi^2/\text{NDF}$ : 960356.0/22

+ sign 5122.535+/-0.742     $\chi^2/\text{NDF}$ : 1825371.1/40

All: 5040.134+/-0.519     $\chi^2/\text{NDF}$ : 3998625.1/83

- sign 4961.024+/-0.727     $\chi^2/\text{NDF}$ : 2149093.9/40

# dit\_asym\_atr\_dd\_mean vs Slug



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

Left Out:  $609.688 \pm 447.590$   $\chi^2/\text{NDF}$ : 28.0/23

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

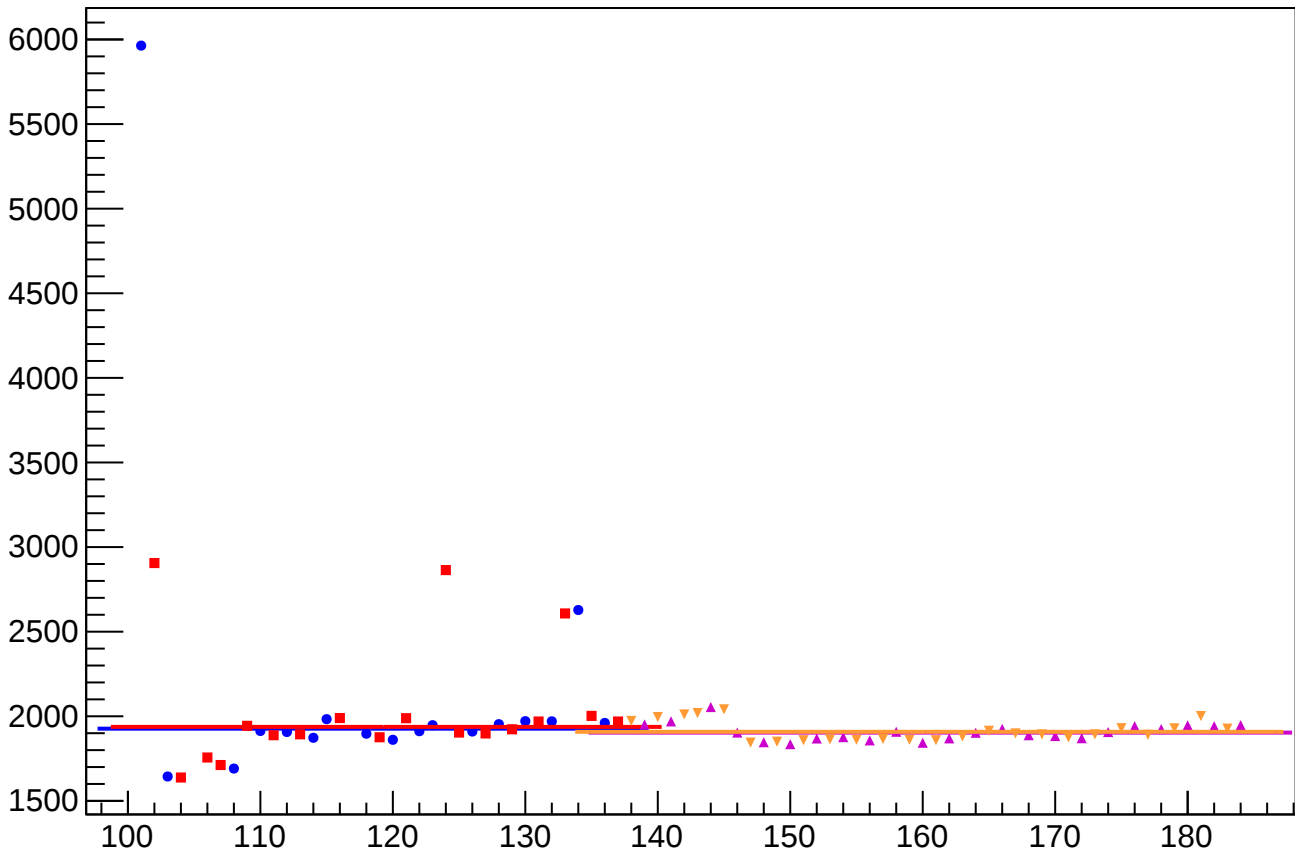
Left In:  $165.209 \pm 454.110$   $\chi^2/\text{NDF}$ : 24.6/22

+ sign  $179.309 \pm 386.062$   $\chi^2/\text{NDF}$ : 45.4/40

All:  $151.371 \pm 273.736$   $\chi^2/\text{NDF}$ : 81.5/81

- sign  $123.124 \pm 388.188$   $\chi^2/\text{NDF}$ : 36.1/40

# dit\_asym\_atr\_dd\_rms vs Slug



Right In: 1926.890 $\pm$ 0.540  $\chi^2$ /NDF: 617116.3/16

Left Out: 1908.233 $\pm$ 0.316  $\chi^2$ /NDF: 32743.4/23

Right Out: 1937.280 $\pm$ 0.529  $\chi^2$ /NDF: 229079.5/17

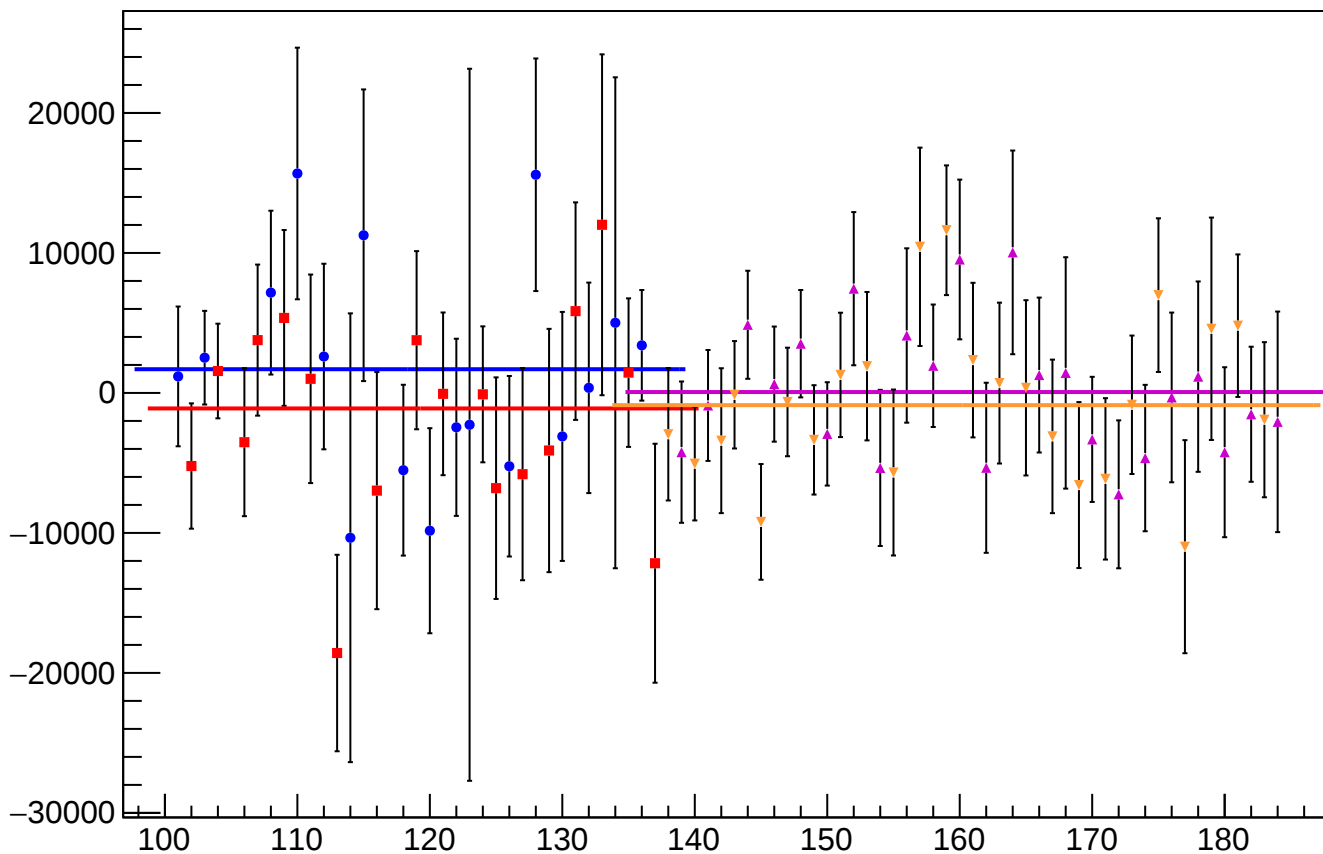
Left In: 1903.508 $\pm$ 0.321  $\chi^2$ /NDF: 23507.0/22

+ sign 1913.010 $\pm$ 0.273  $\chi^2$ /NDF: 650749.4/40

All: 1912.811 $\pm$ 0.194  $\chi^2$ /NDF: 906318.8/81

- sign 1912.611 $\pm$ 0.274  $\chi^2$ /NDF: 255568.3/40

# asym\_atr\_dd\_correction\_mean vs Slug



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

Left Out:  $-872.382 \pm 1030.669$   $\chi^2/\text{NDF}: 25.0/23$

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

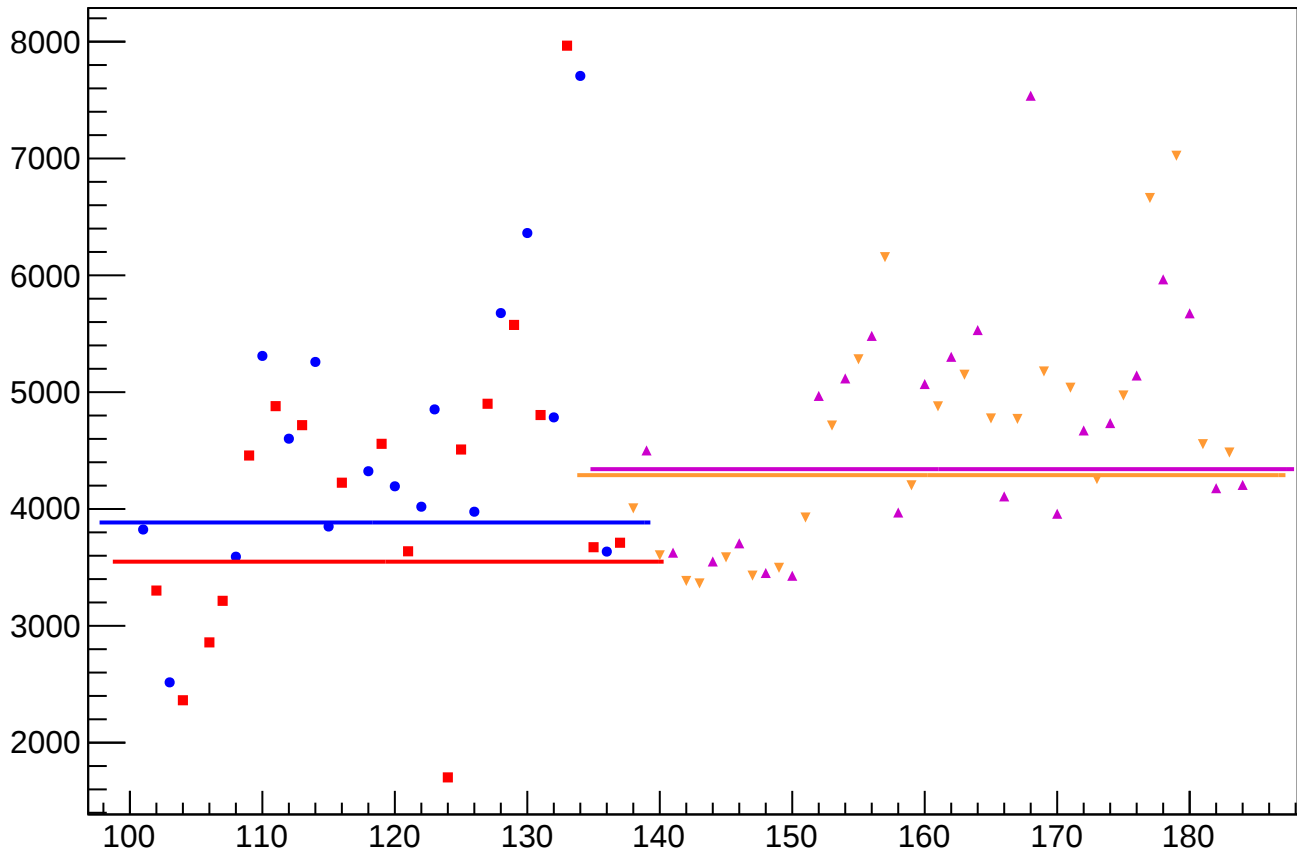
Left In:  $63.527 \pm 1056.624$   $\chi^2/\text{NDF}: 16.7/22$

+ sign  $-86.921 \pm 858.578$   $\chi^2/\text{NDF}: 40.5/40$

All:  $-223.789 \pm 602.658$   $\chi^2/\text{NDF}: 73.5/81$

- sign  $-356.716 \pm 846.132$   $\chi^2/\text{NDF}: 33.0/40$

# asym\_atr\_dd\_correction\_rms vs Slug



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

Left Out: 4289.736 $\pm$ 0.729  $\chi^2$ /NDF: 1346280.1/23

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

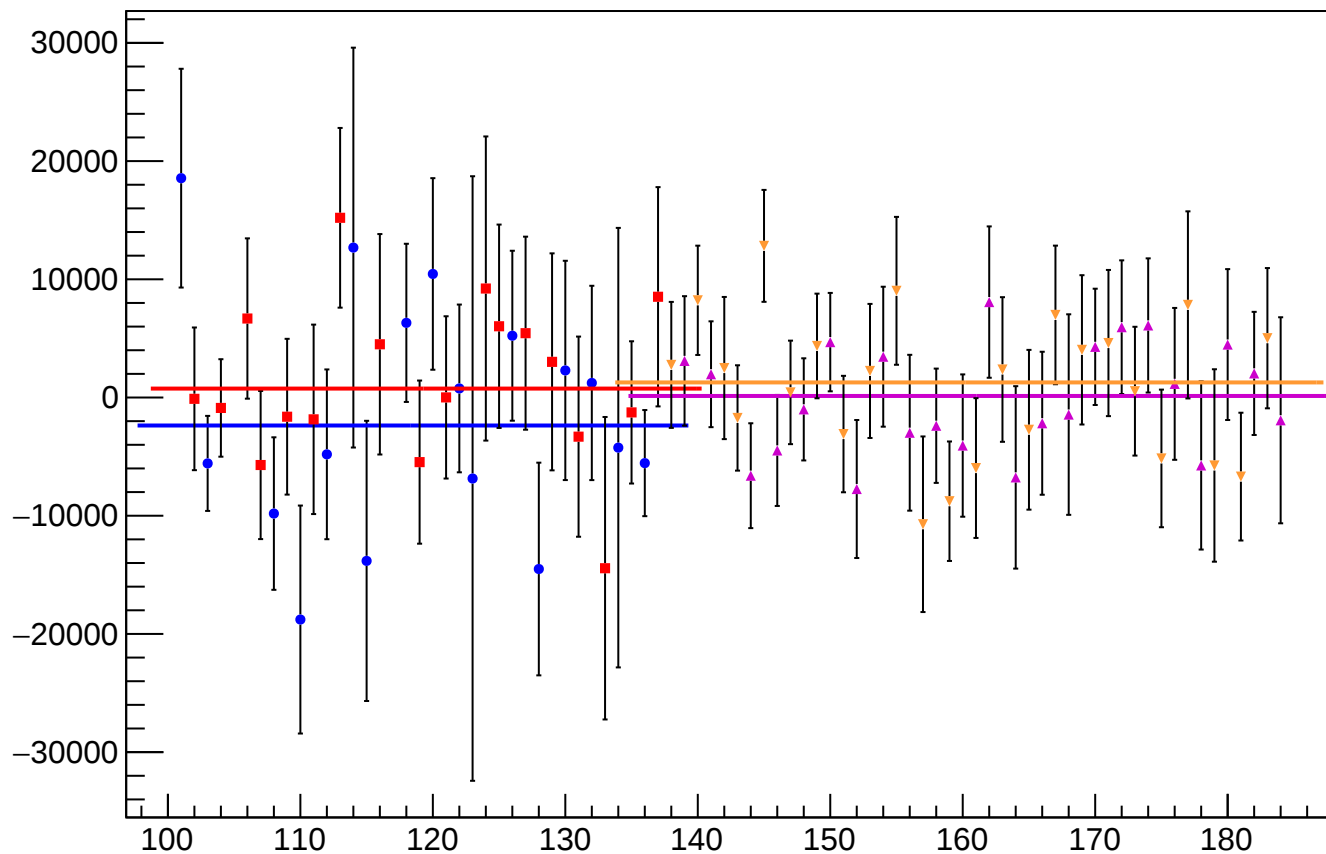
Left In: 4341.102 $\pm$ 0.747  $\chi^2$ /NDF: 1295892.3/22

+ sign 4165.740 $\pm$ 0.607  $\chi^2$ /NDF: 2267423.1/40

All: 4110.572 $\pm$ 0.426  $\chi^2$ /NDF: 5309612.5/83

- sign 4056.992 $\pm$ 0.598  $\chi^2$ /NDF: 3025912.2/40

# asym\_atr\_dd\_mean vs Slug



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

Left Out:  $1276.241 \pm 1134.142$   $\chi^2/\text{NDF}$ : 26.8/23

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

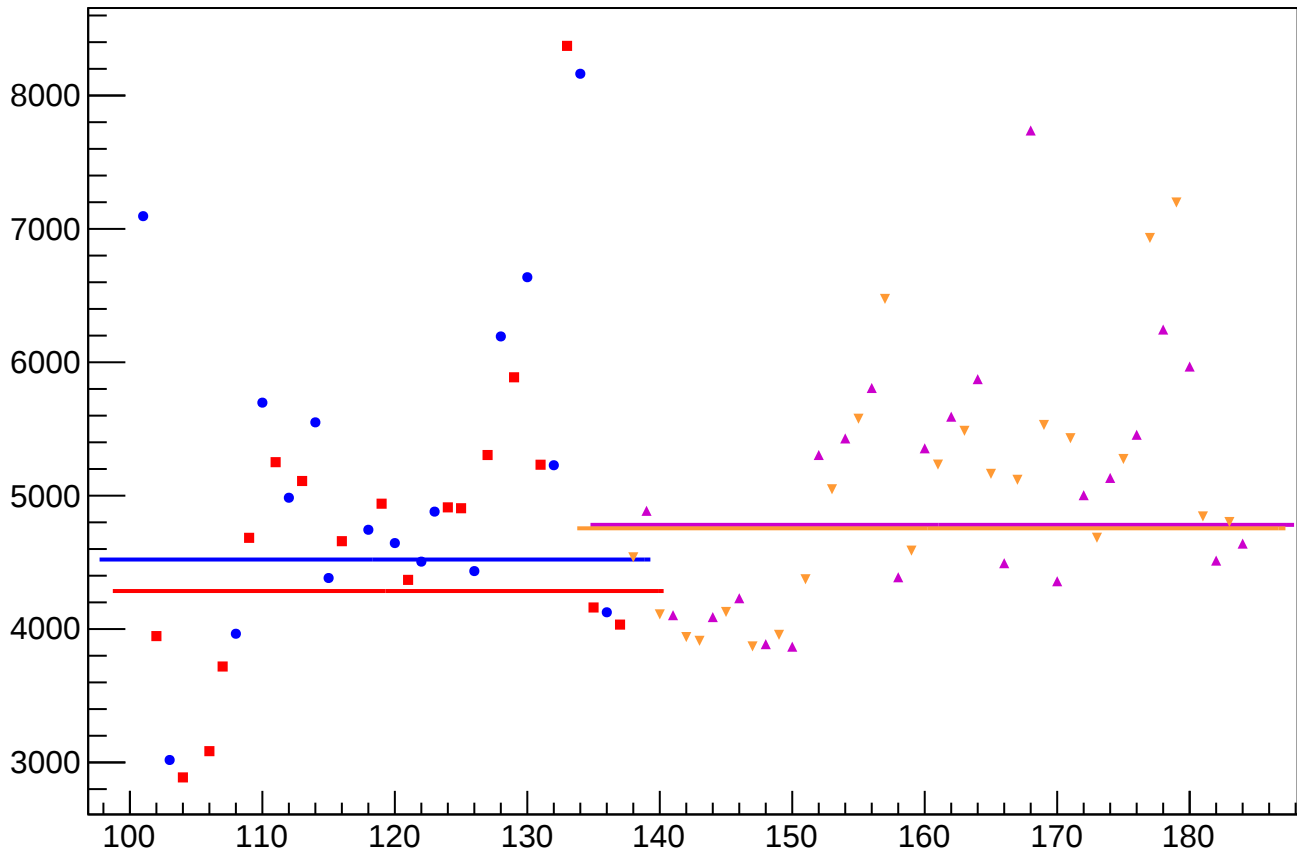
Left In:  $131.428 \pm 1157.282$   $\chi^2/\text{NDF}$ : 14.9/22

+ sign  $242.353 \pm 959.848$   $\chi^2/\text{NDF}$ : 49.8/40

All:  $286.498 \pm 677.143$   $\chi^2/\text{NDF}$ : 75.3/81

- sign  $330.236 \pm 955.417$   $\chi^2/\text{NDF}$ : 25.5/40

# asym\_atr\_dd\_rms vs Slug



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

Left Out: 4755.199+/-0.802  $\chi^2/\text{NDF}$ : 952958.8/23

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

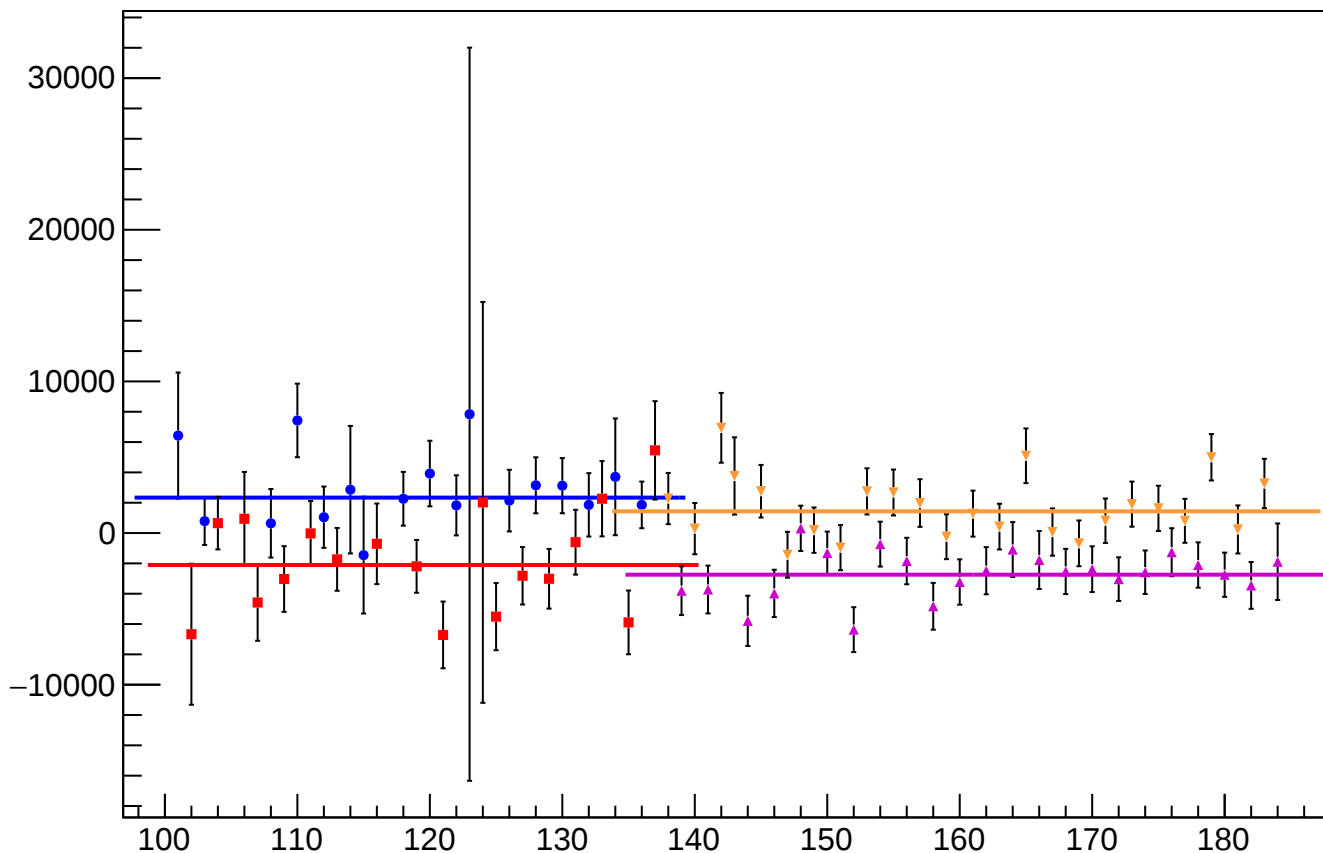
Left In: 4781.172+/-0.818  $\chi^2/\text{NDF}$ : 951542.2/22

+ sign 4688.812+/-0.679  $\chi^2/\text{NDF}$ : 1755784.7/40

All: 4655.188+/-0.478  $\chi^2/\text{NDF}$ : 3576532.1/83

- sign 4621.992+/-0.674  $\chi^2/\text{NDF}$ : 1815870.0/40

# dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



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

Left Out: 1433.144+/-324.060  $\chi^2/\text{NDF}$ : 32.6/23

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

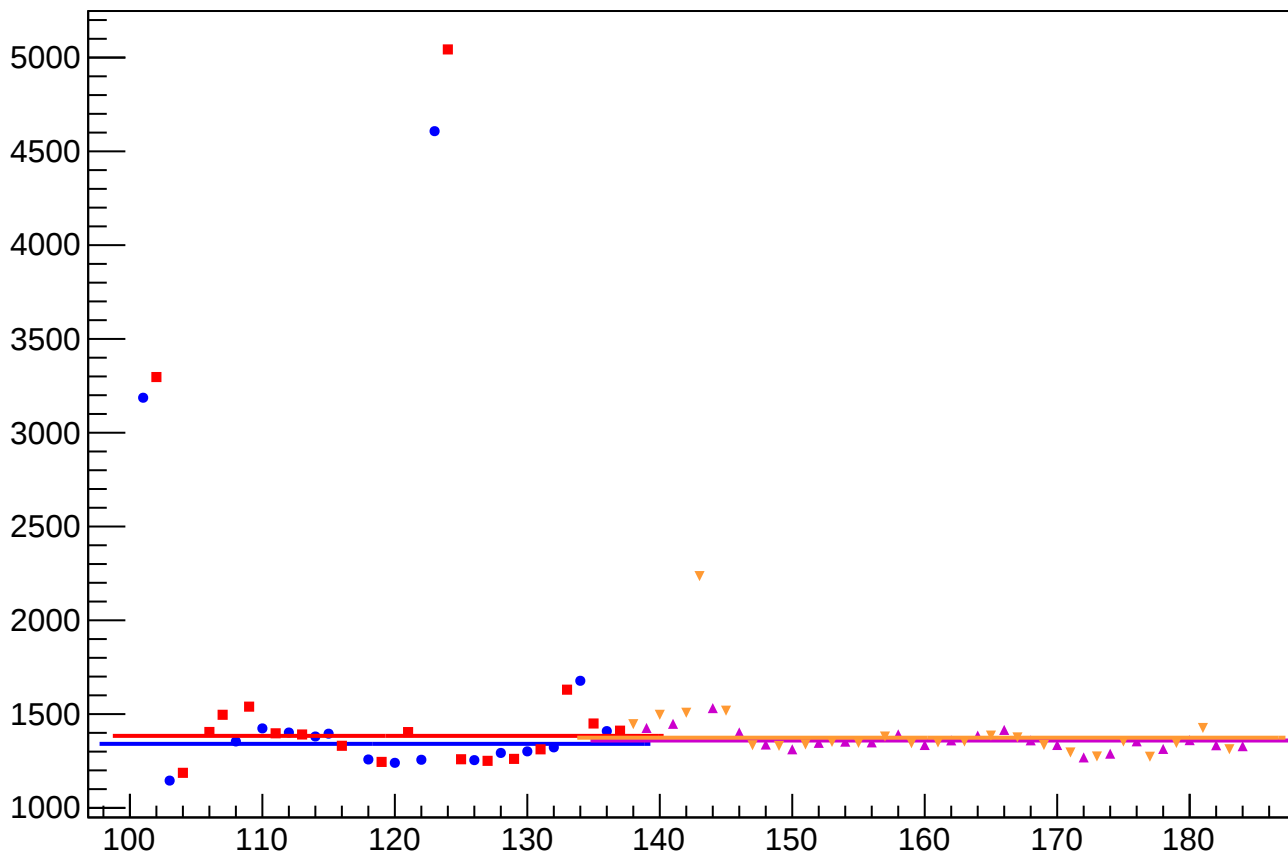
Left In: -2745.012+/-325.013  $\chi^2/\text{NDF}$ : 22.8/22

+ sign 1678.331+/-276.635  $\chi^2/\text{NDF}$ : 44.3/40

All: -434.817+/-196.236  $\chi^2/\text{NDF}$ : 211.9/81

- sign -2575.201+/-278.412  $\chi^2/\text{NDF}$ : 50.2/40

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



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

Left Out:  $1374.188 \pm 0.229$   $\chi^2/\text{NDF}$ : 302283.2/23

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

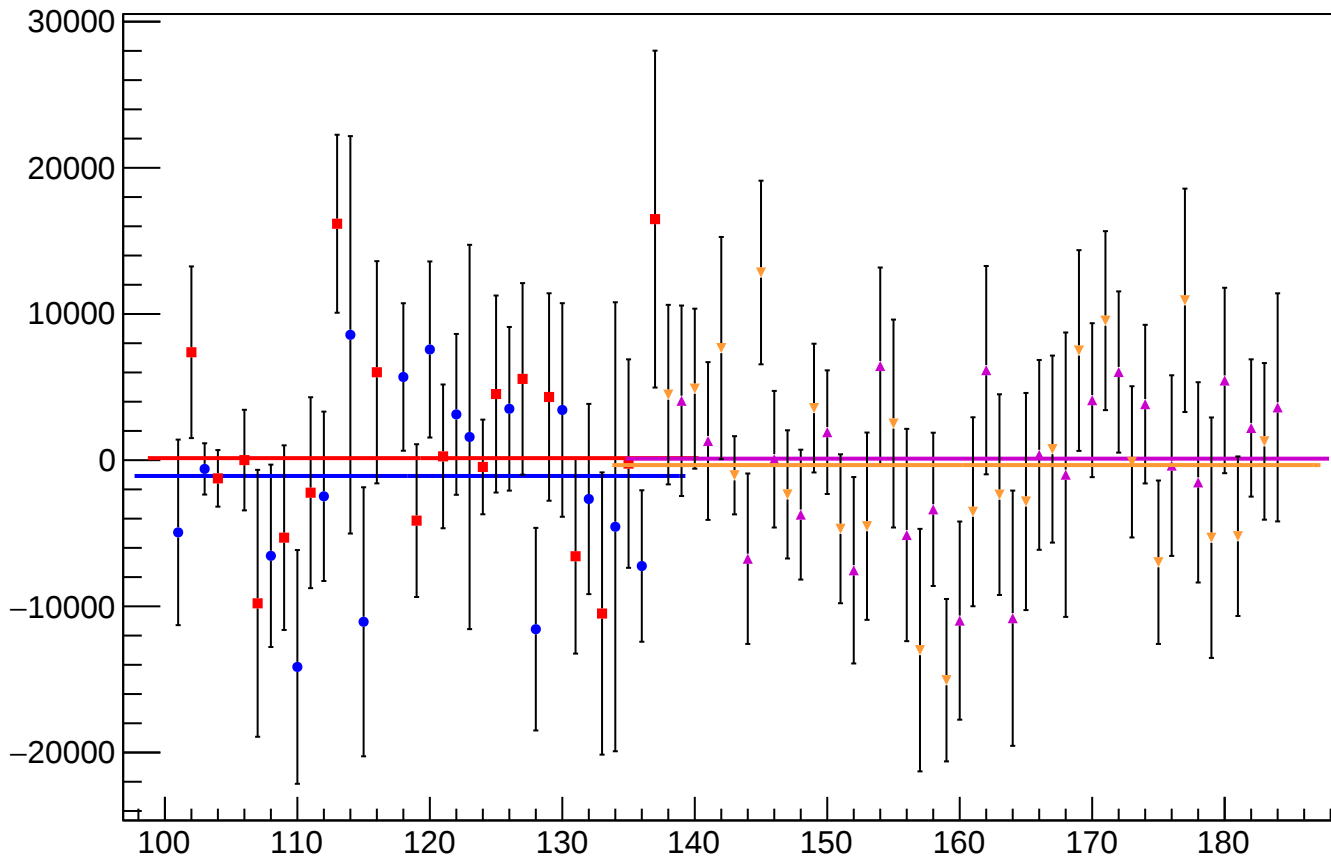
Left In:  $1359.185 \pm 0.230$   $\chi^2/\text{NDF}$ : 55328.0/22

+ sign  $1365.286 \pm 0.196$   $\chi^2/\text{NDF}$ : 812118.3/40

All:  $1365.528 \pm 0.139$   $\chi^2/\text{NDF}$ : 1464380.4/83

- sign  $1365.773 \pm 0.197$   $\chi^2/\text{NDF}$ : 652259.1/40

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug



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

Left Out: -335.823 $\pm$ 1131.690  $\chi^2$ /NDF: 28.0/23

Right Out: 138.838 $\pm$ 1129.319  $\chi^2$ /NDF: 18.0/17

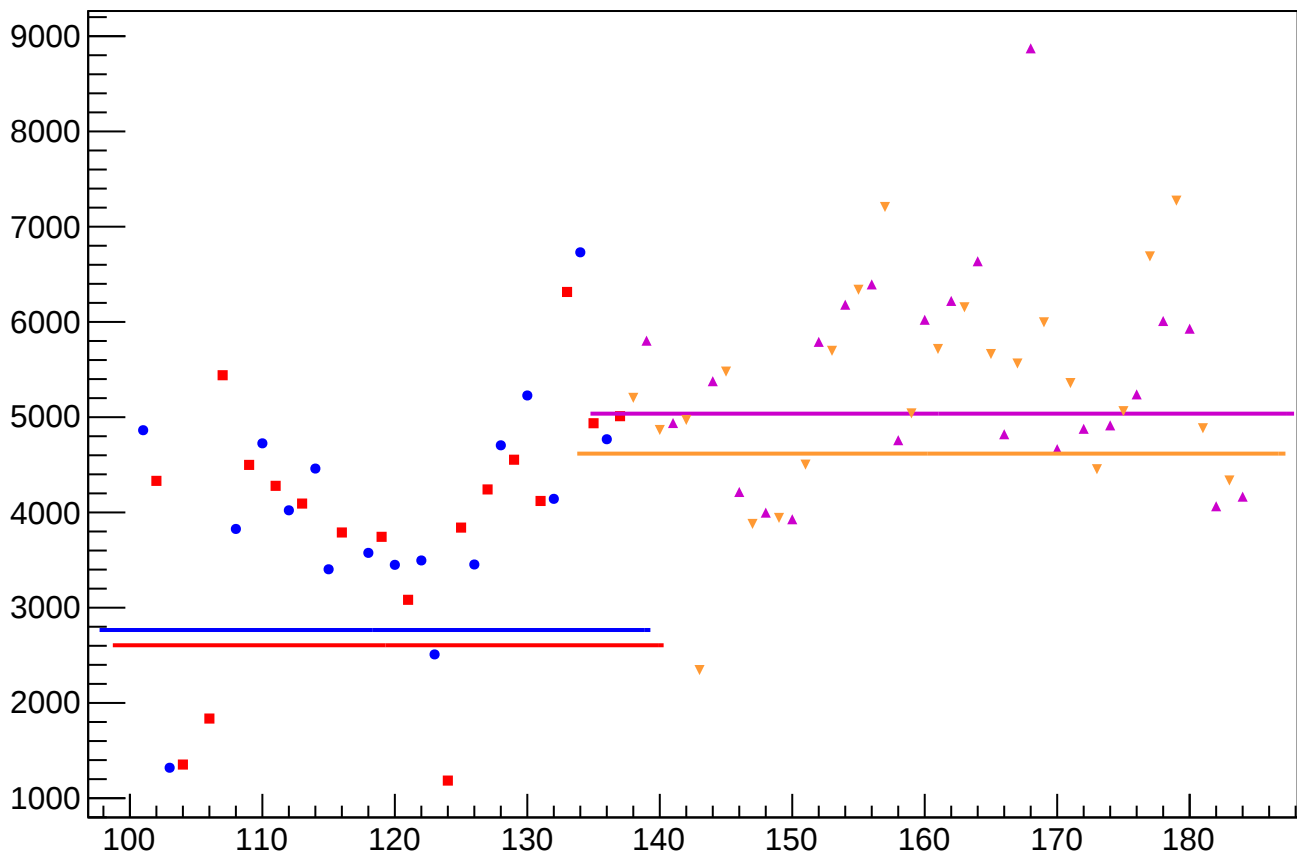
Left In: 102.901 $\pm$ 1223.984  $\chi^2$ /NDF: 14.3/22

+ sign -682.809 $\pm$ 827.283  $\chi^2$ /NDF: 43.2/40

All: -281.568 $\pm$ 585.936  $\chi^2$ /NDF: 76.0/81

- sign 122.313 $\pm$ 830.000  $\chi^2$ /NDF: 32.4/40

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug



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

Left Out: 4617.470+/-0.800  $\chi^2/\text{NDF}$ : 2724290.0/23

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

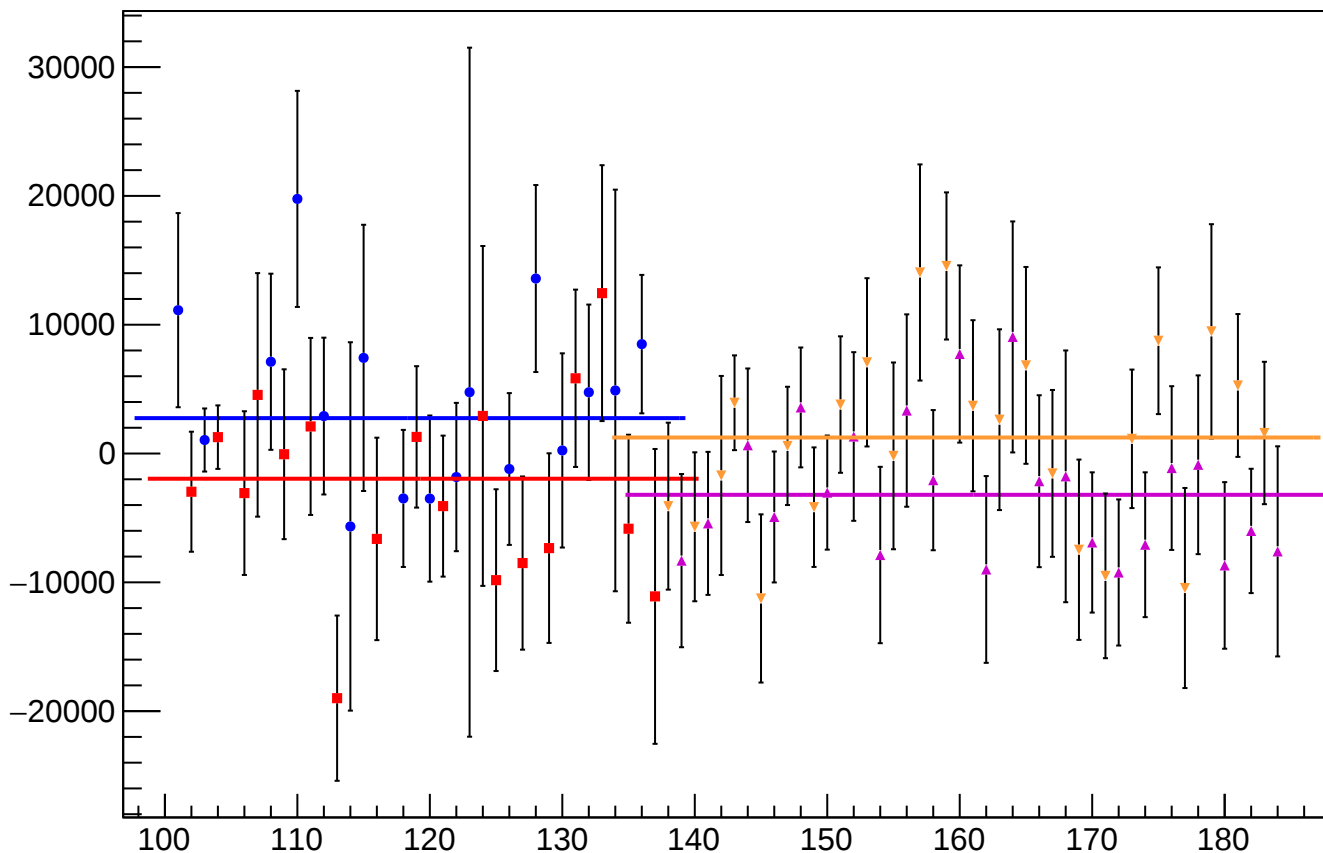
Left In: 5037.077+/-0.865  $\chi^2/\text{NDF}$ : 1187934.6/22

+ sign 3755.272+/-0.585  $\chi^2/\text{NDF}$ : 8156593.2/40

All: 3739.511+/-0.414  $\chi^2/\text{NDF}$ : 16931839.6/6

- sign 3723.647+/-0.587  $\chi^2/\text{NDF}$ : 8773789.9/40

# asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



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

Left Out: 1244.332+/-1216.961  $\chi^2/\text{NDF}$ : 27.5/23

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

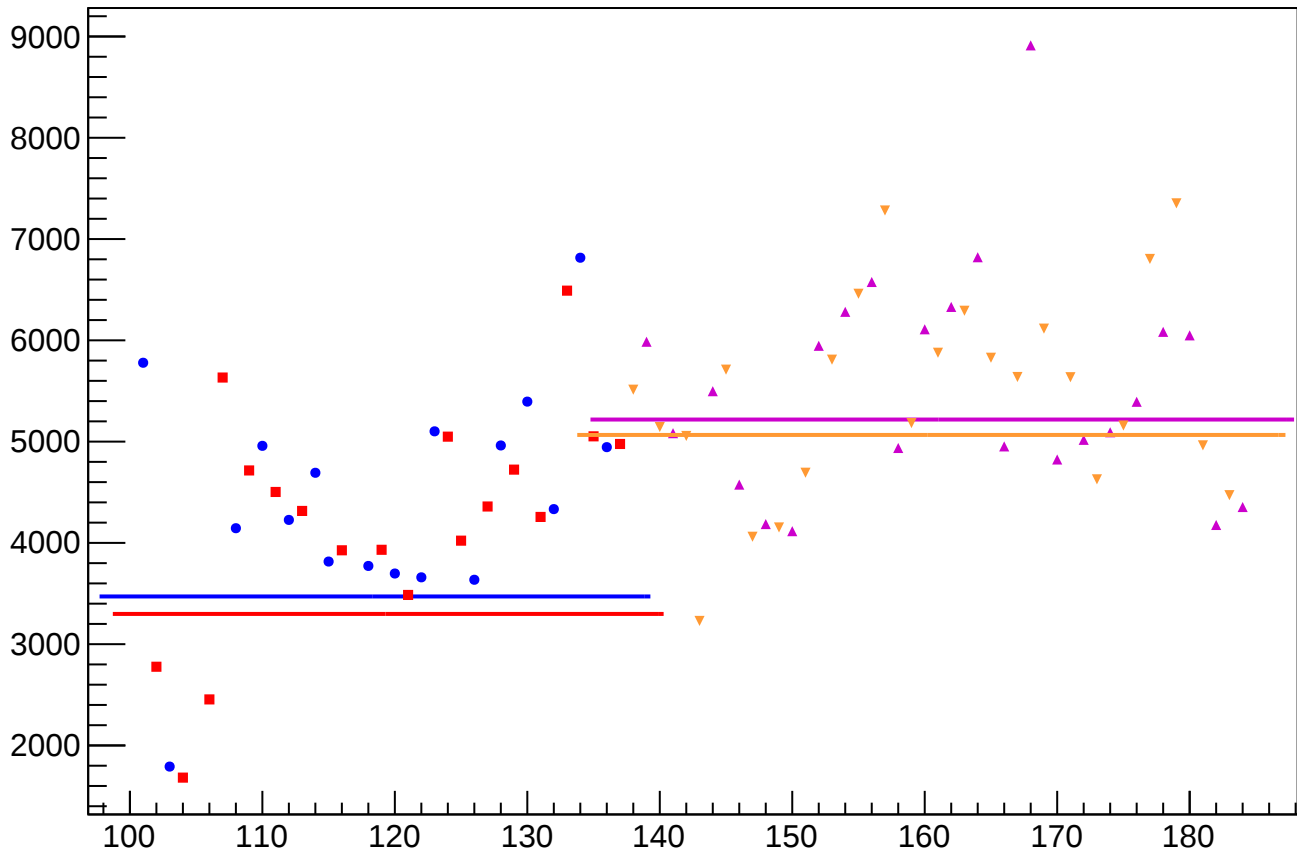
Left In: -3205.363+/-1265.586  $\chi^2/\text{NDF}$ : 13.9/22

+ sign 1867.580+/-931.267  $\chi^2/\text{NDF}$ : 41.9/40

All: -377.720+/-659.490  $\chi^2/\text{NDF}$ : 85.6/81

- sign -2636.505+/-934.059  $\chi^2/\text{NDF}$ : 32.1/40

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



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

Left Out: 5065.902+/-0.861  $\chi^2/\text{NDF}$ : 1427455.7/23

+ sign 4405.006+/-0.658  $\chi^2/\text{NDF}$ : 4618665.5/40

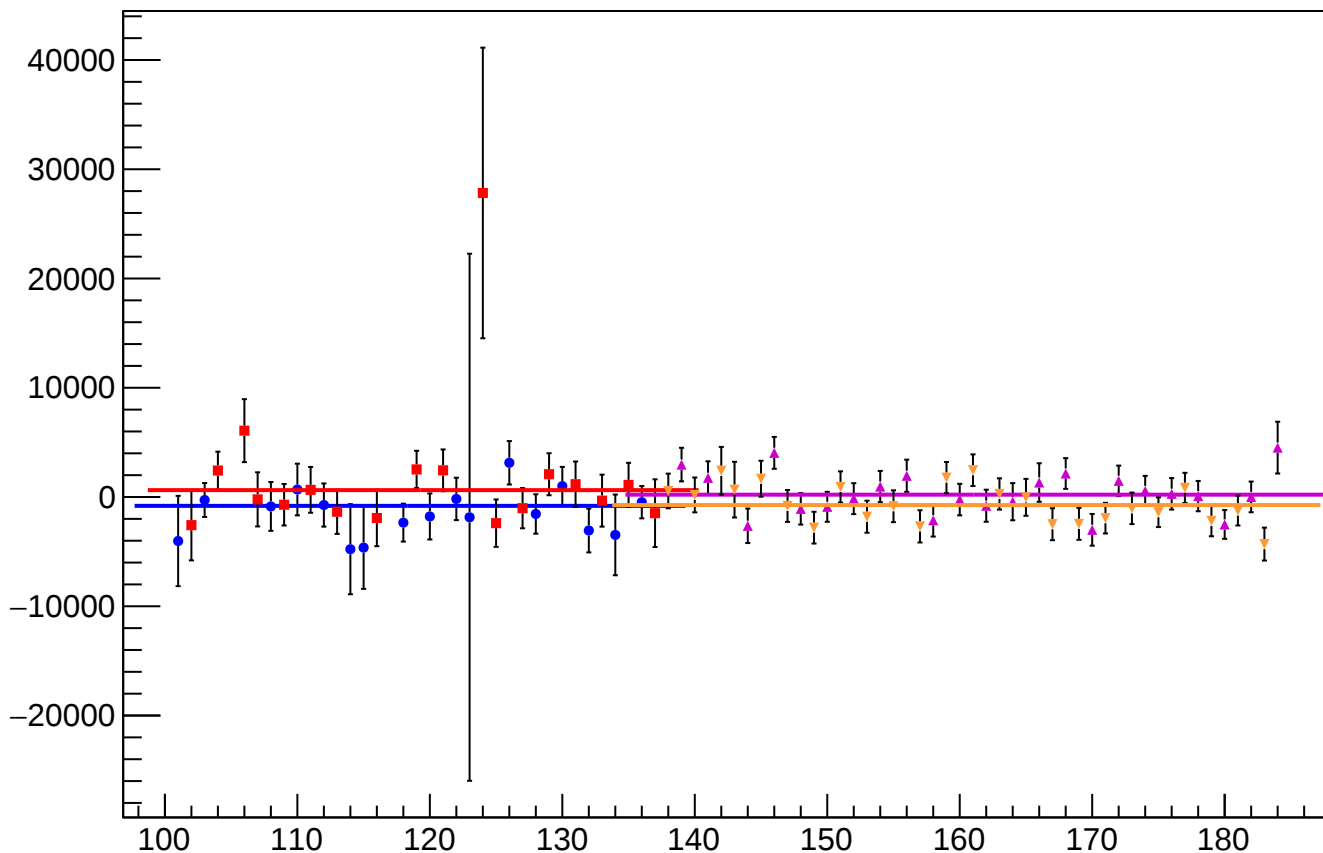
Right Out: 3298.657+/-0.970  $\chi^2/\text{NDF}$ : 1886021.8/17

All: 4370.135+/-0.465  $\chi^2/\text{NDF}$ : 9684566.4/83

Left In: 5217.971+/-0.895  $\chi^2/\text{NDF}$ : 1058996.1/22

- sign 4335.348+/-0.658  $\chi^2/\text{NDF}$ : 5060299.0/40

dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



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

Left Out:  $-735.861 \pm 306.659$   $\chi^2/\text{NDF}$ : 31.8/23

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

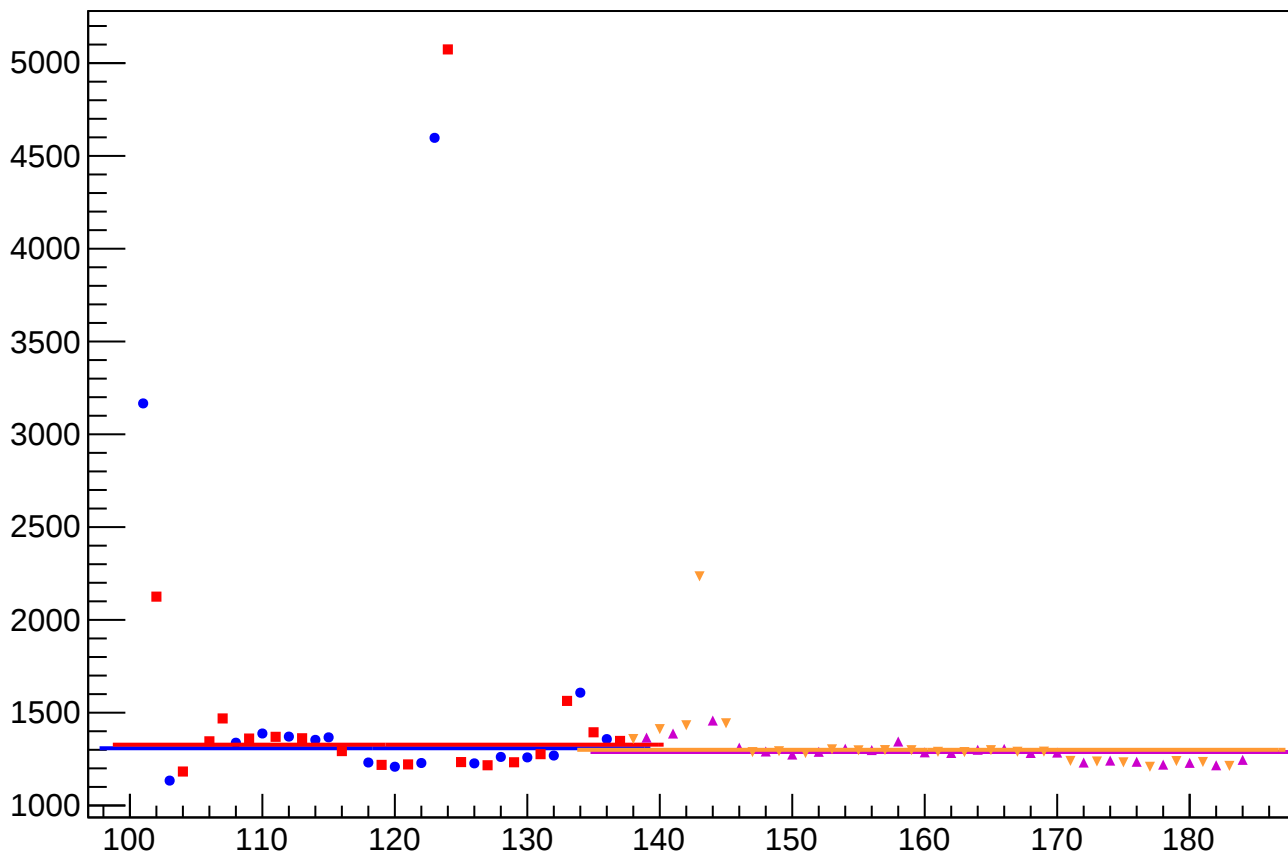
Left In:  $215.207 \pm 308.041$   $\chi^2/\text{NDF}$ : 36.5/22

+ sign  $-754.836 \pm 263.909$   $\chi^2/\text{NDF}$ : 43.0/40

All:  $-215.972 \pm 186.768$   $\chi^2/\text{NDF}$ : 106.9/81

- sign  $324.697 \pm 264.351$   $\chi^2/\text{NDF}$ : 55.5/40

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



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

Left Out: 1299.973+/-0.217  $\chi^2/\text{NDF}$ : 341178.3/23

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

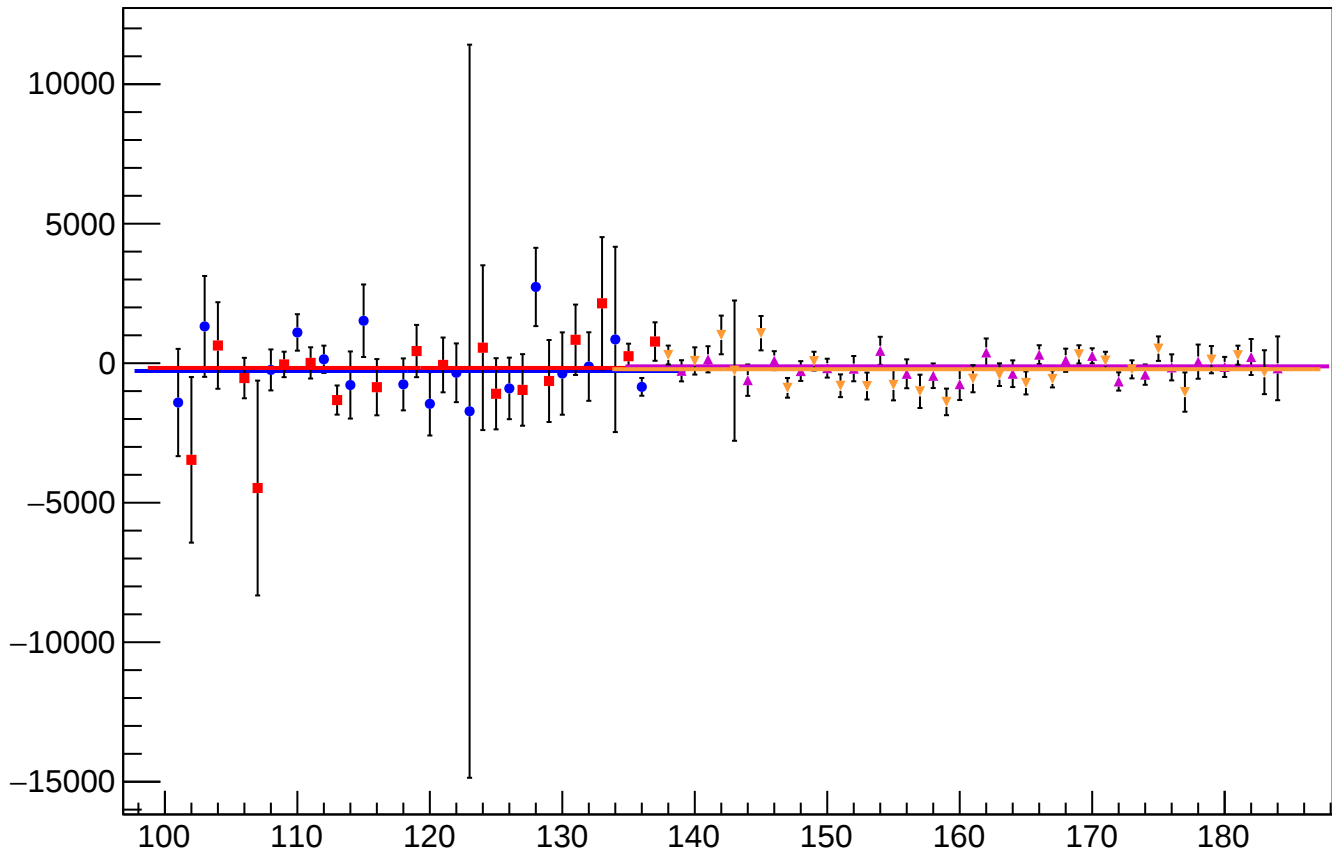
Left In: 1288.232+/-0.218  $\chi^2/\text{NDF}$ : 63961.3/22

+ sign 1302.150+/-0.187  $\chi^2/\text{NDF}$ : 848111.9/40

All: 1300.388+/-0.132  $\chi^2/\text{NDF}$ : 1278212.3/83

- sign 1298.620+/-0.187  $\chi^2/\text{NDF}$ : 429921.7/40

asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug



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

Left Out:  $-215.504 \pm 86.751$   $\chi^2/\text{NDF}$ : 40.9/23

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

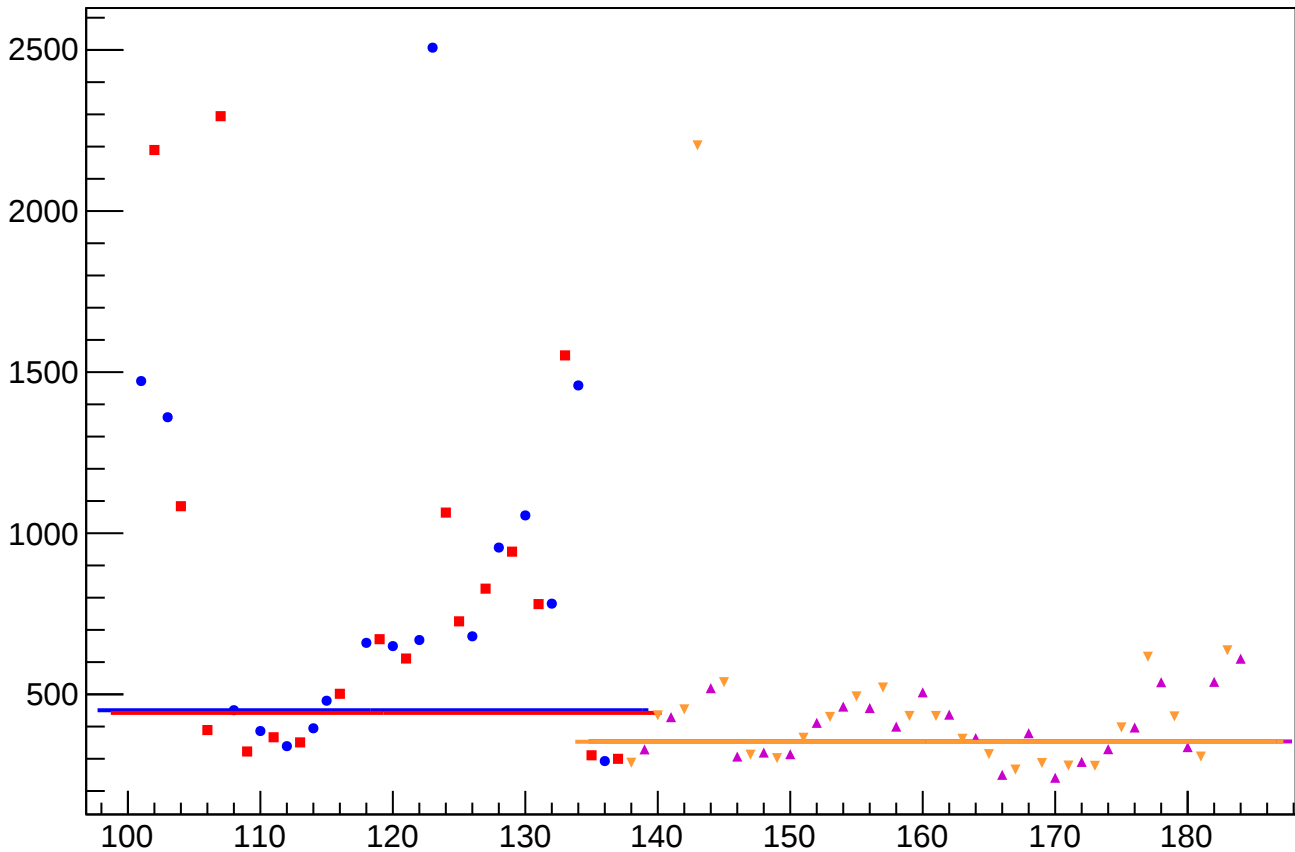
Left In:  $-113.183 \pm 86.981$   $\chi^2/\text{NDF}$ : 14.0/22

+ sign  $-225.672 \pm 79.467$   $\chi^2/\text{NDF}$ : 59.0/40

All:  $-174.080 \pm 56.120$   $\chi^2/\text{NDF}$ : 88.3/81

- sign  $-122.751 \pm 79.264$   $\chi^2/\text{NDF}$ : 28.4/40

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug



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

Left Out: 352.858 $\pm$ 0.061  $\chi^2$ /NDF:3086662.8/23

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

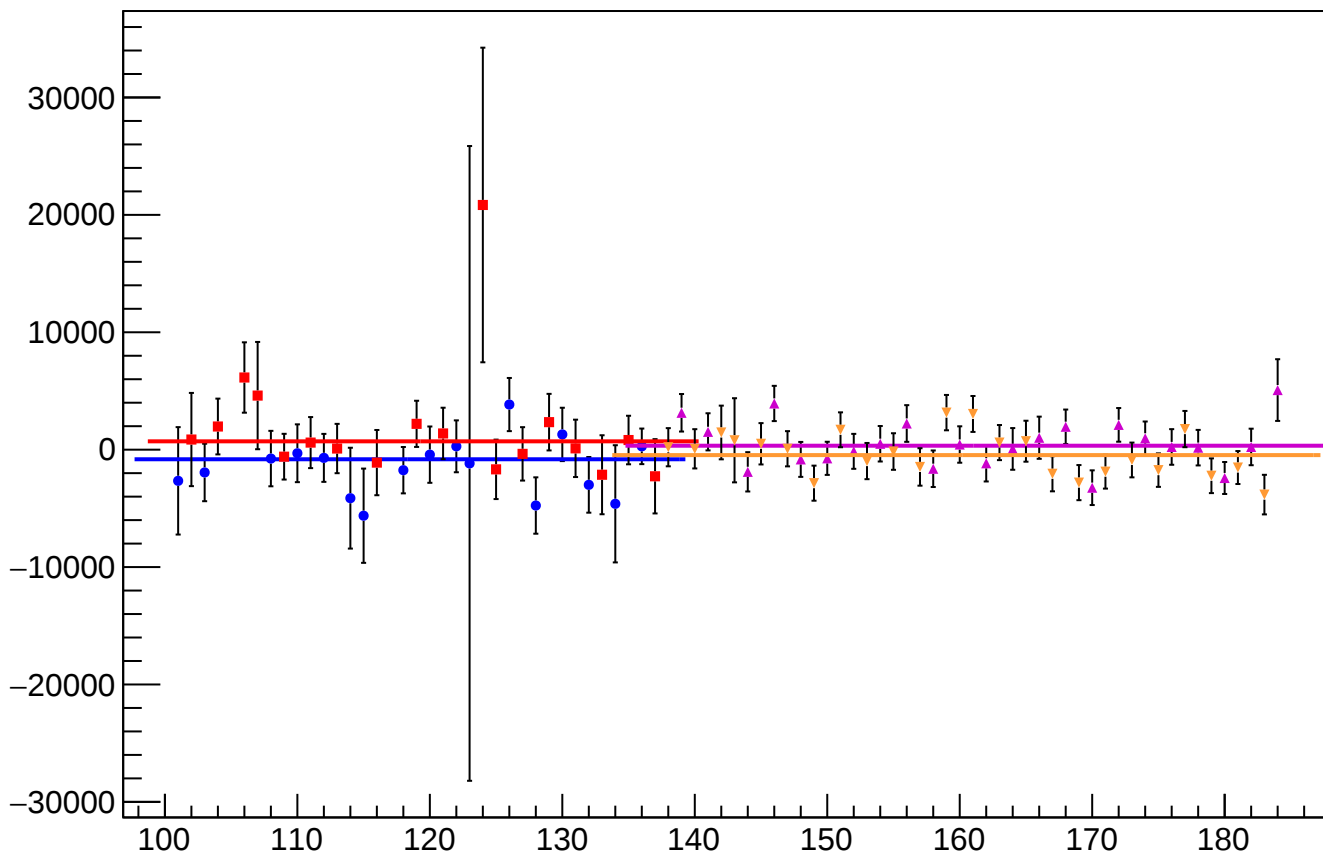
Left In: 353.746 $\pm$ 0.062  $\chi^2$ /NDF:1833470.0/22

+ sign 368.582 $\pm$ 0.056  $\chi^2$ /NDF: 6492814.4/40

All: 368.678 $\pm$ 0.040  $\chi^2$ /NDF: 12046674.2/83

- sign 368.773 $\pm$ 0.056  $\chi^2$ /NDF: 5553853.9/40

# asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



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

Left Out: -463.038+/-322.732  $\chi^2/\text{NDF}$ : 32.2/23

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

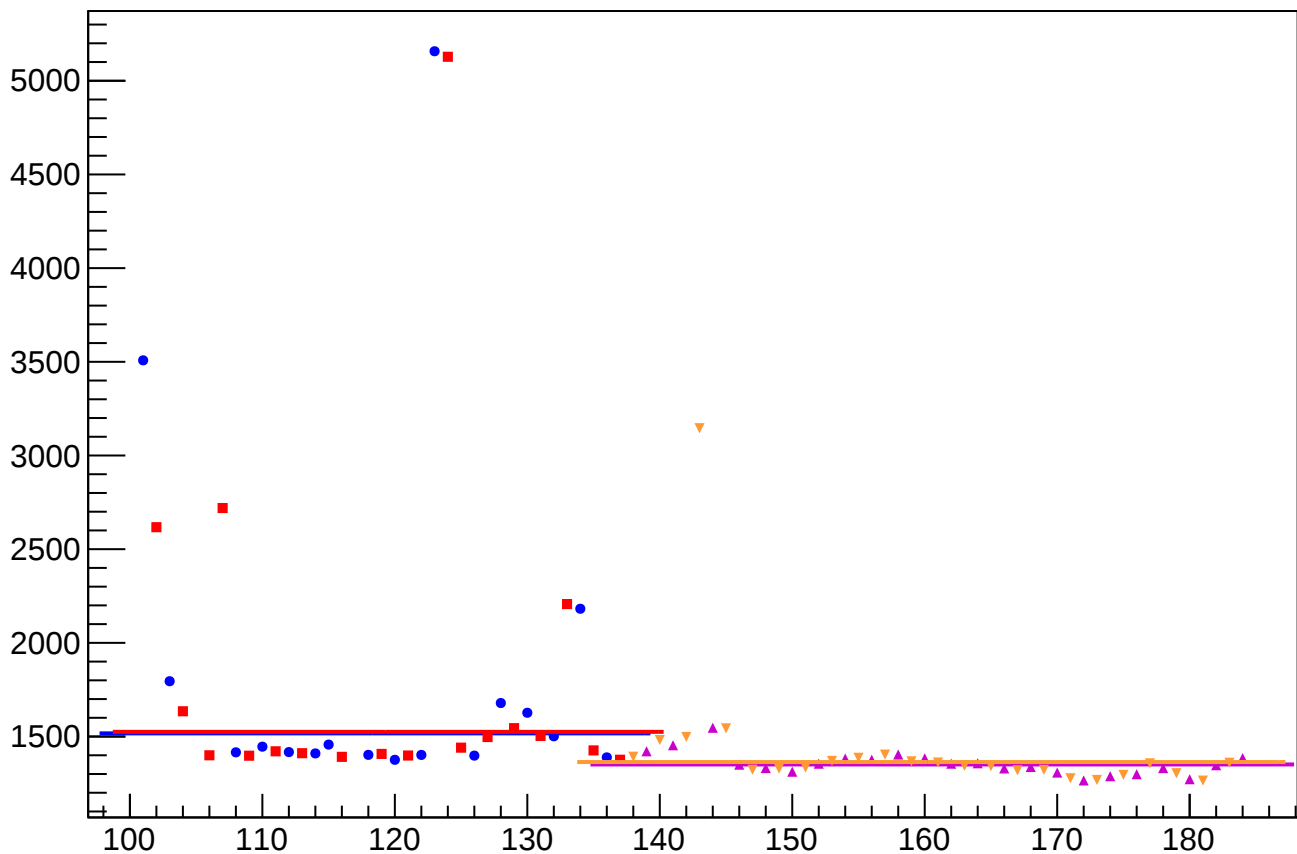
Left In: 337.193+/-323.023  $\chi^2/\text{NDF}$ : 32.8/22

+ sign -542.256+/-284.346  $\chi^2/\text{NDF}$ : 45.2/40

All: -59.559+/-200.941  $\chi^2/\text{NDF}$ : 95.4/81

- sign 421.965+/-284.001  $\chi^2/\text{NDF}$ : 44.5/40

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1516.935 $\pm$ 0.425  $\chi^2$ /NDF: 541039.6/16

Left Out: 1363.907 $\pm$ 0.228  $\chi^2$ /NDF: 575065.4/23

Right Out: 1525.099 $\pm$ 0.421  $\chi^2$ /NDF: 571929.2/17

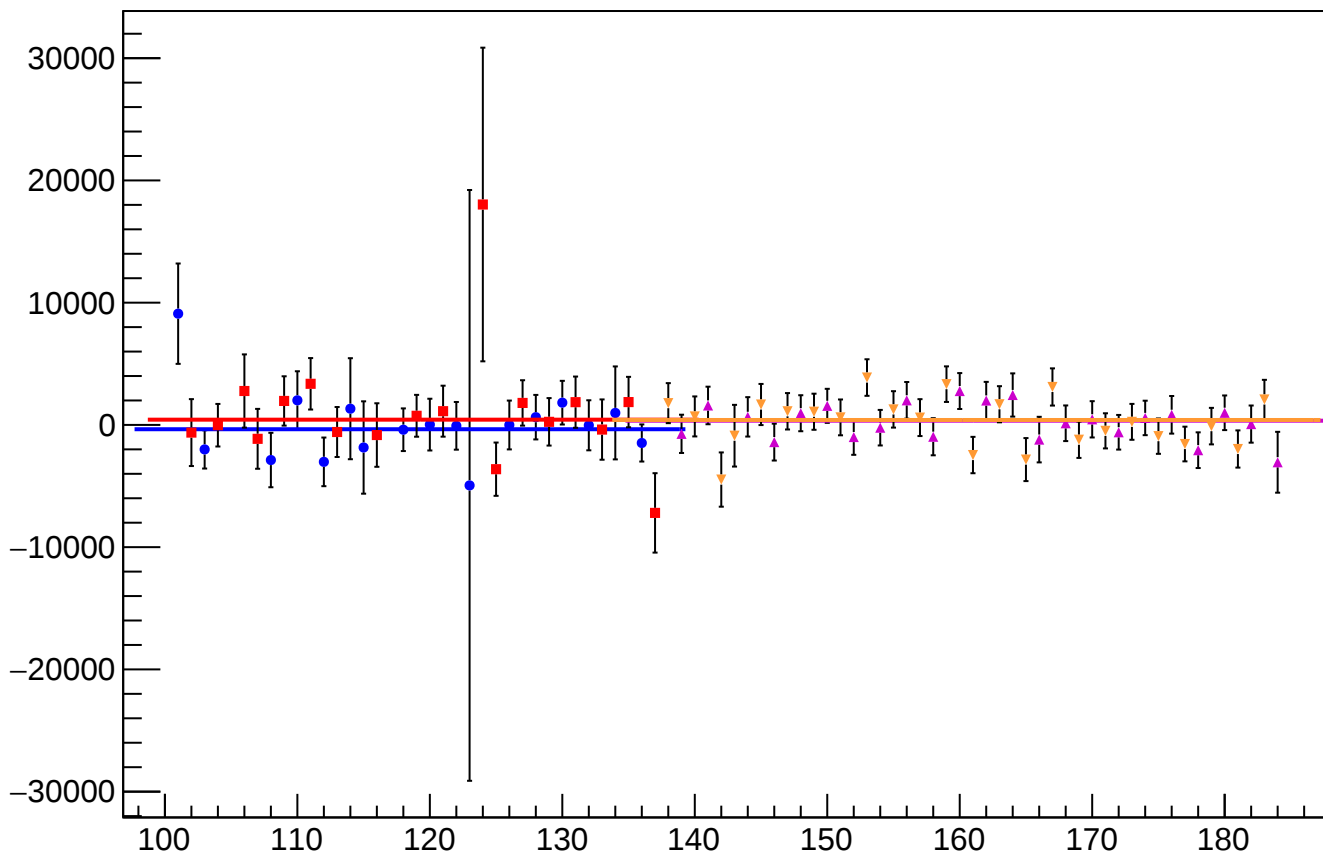
Left In: 1351.012 $\pm$ 0.228  $\chi^2$ /NDF: 68978.1/22

+ sign 1398.145 $\pm$ 0.201  $\chi^2$ /NDF: 1216709.8/40

All: 1394.334 $\pm$ 0.142  $\chi^2$ /NDF: 1990206.1/81

- sign 1390.533 $\pm$ 0.201  $\chi^2$ /NDF: 772778.9/40

# dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In:  $-353.131 \pm 523.324$   $\chi^2/\text{NDF}$ : 13.4/16

Left Out:  $403.233 \pm 317.011$   $\chi^2/\text{NDF}$ : 35.6/23

Right Out:  $429.167 \pm 522.342$   $\chi^2/\text{NDF}$ : 16.8/17

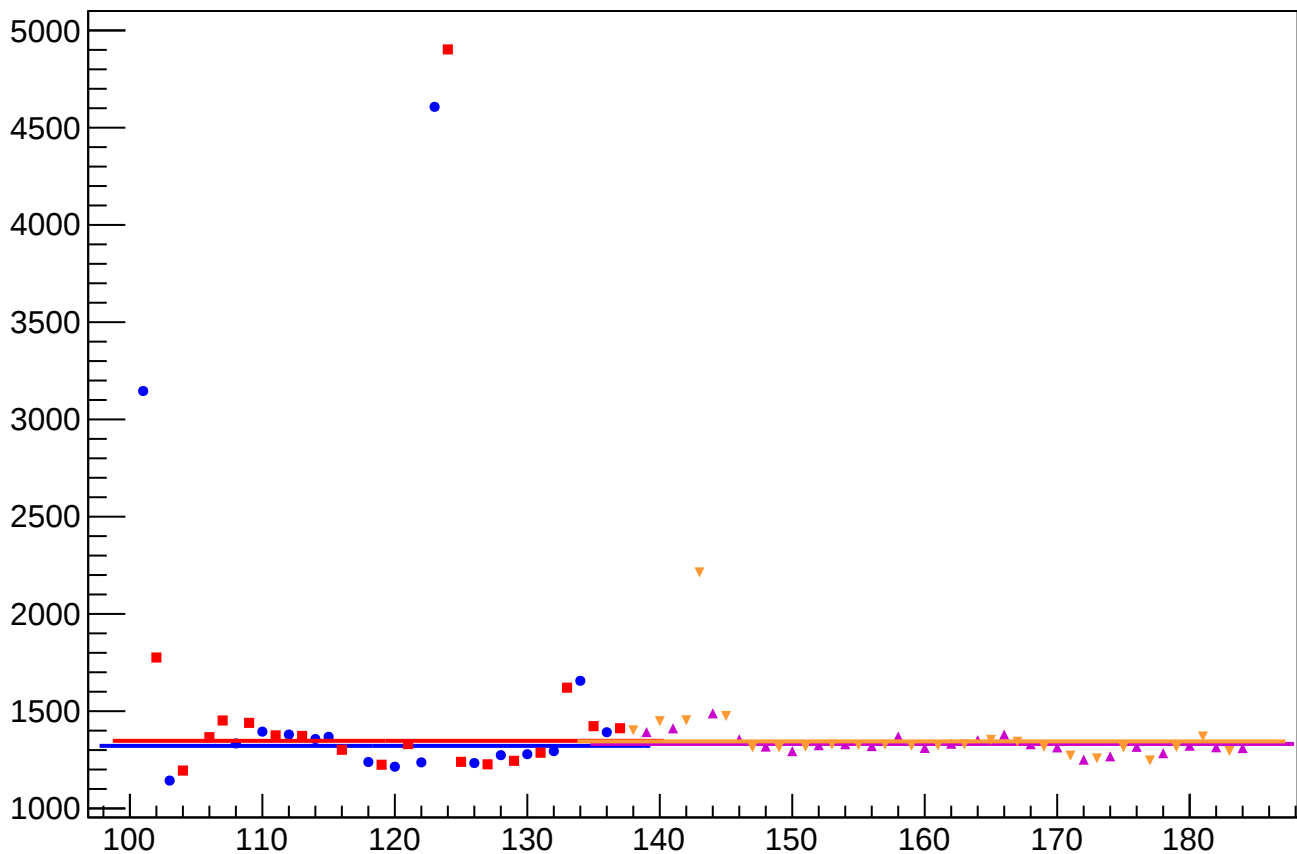
Left In:  $345.358 \pm 318.322$   $\chi^2/\text{NDF}$ : 17.9/22

+ sign  $200.192 \pm 271.143$   $\chi^2/\text{NDF}$ : 50.5/40

All:  $283.912 \pm 191.967$   $\chi^2/\text{NDF}$ : 85.5/81

- sign  $368.055 \pm 271.824$   $\chi^2/\text{NDF}$ : 34.7/40

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1321.703 $\pm$ 0.370  $\chi^2$ /NDF: 502245.7/16

Left Out: 1344.612 $\pm$ 0.224  $\chi^2$ /NDF: 295531.3/23

Right Out: 1347.646 $\pm$ 0.369  $\chi^2$ /NDF: 286301.2/17

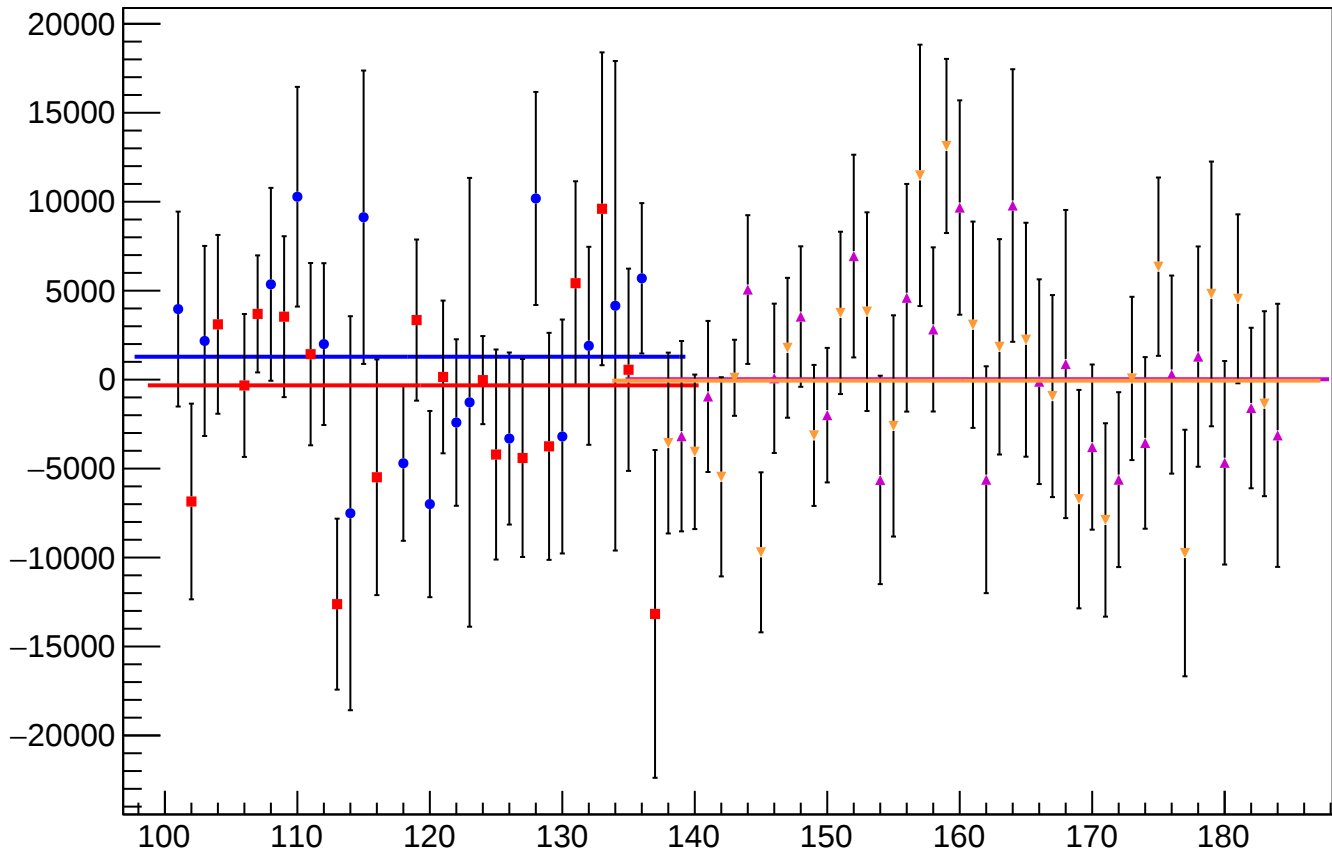
Left In: 1331.511 $\pm$ 0.225  $\chi^2$ /NDF: 46761.5/22

+ sign 1338.462 $\pm$ 0.192  $\chi^2$ /NDF: 800581.0/40

All: 1337.176 $\pm$ 0.136  $\chi^2$ /NDF: 1135126.4/83

- sign 1335.884 $\pm$ 0.192  $\chi^2$ /NDF: 334455.2/40

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug



Right In: 1287.495 $\pm$ 1375.853  $\chi^2$ /NDF: 14.3/16

Left Out: -56.947 $\pm$ 968.728  $\chi^2$ /NDF: 27.6/23

Right Out: -321.508 $\pm$ 1105.580  $\chi^2$ /NDF: 17.6/17

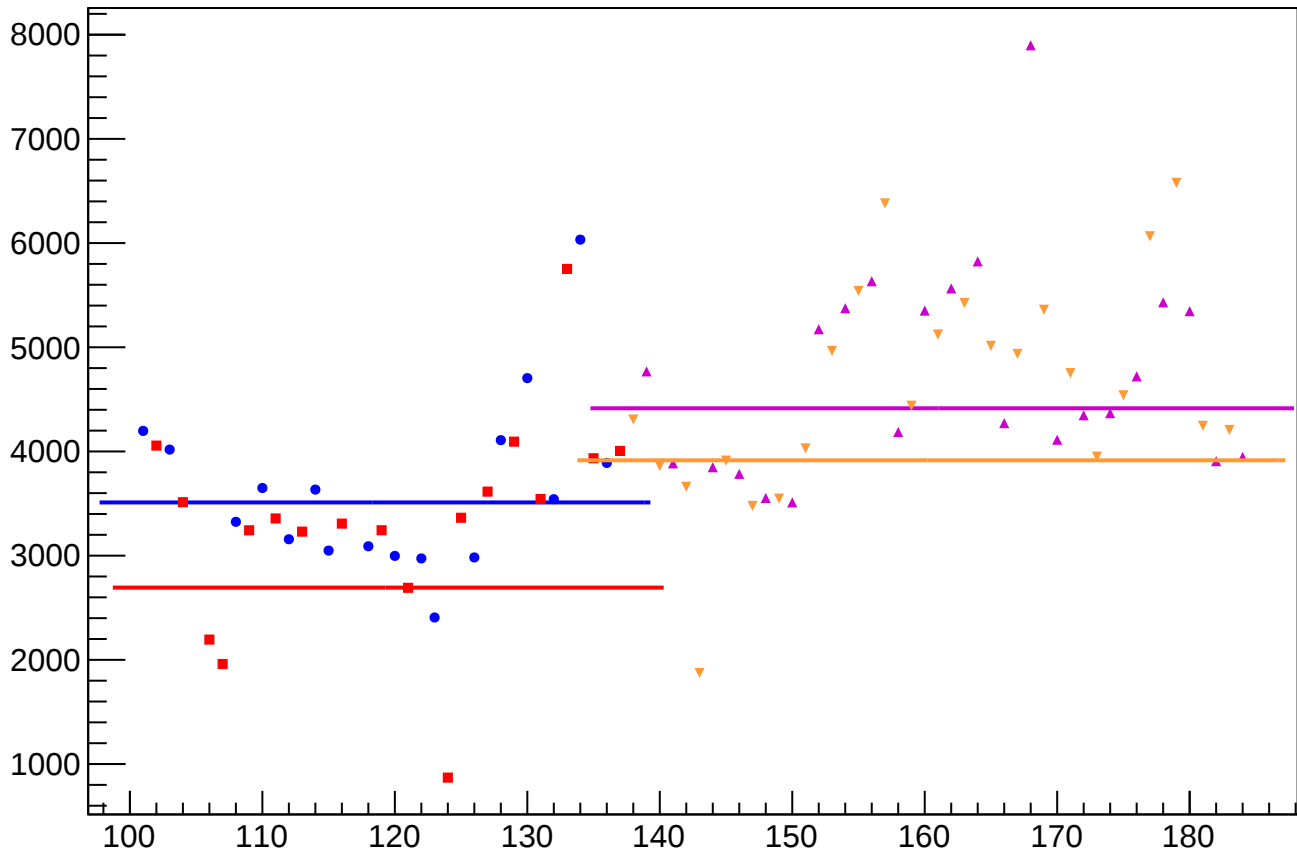
Left In: 21.622 $\pm$ 1072.272  $\chi^2$ /NDF: 14.8/22

+ sign 388.652 $\pm$ 792.087  $\chi^2$ /NDF: 42.5/40

All: 114.340 $\pm$ 552.011  $\chi^2$ /NDF: 75.1/81

- sign -144.696 $\pm$ 769.717  $\chi^2$ /NDF: 32.4/40

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug



Right In: 3510.799 $\pm$ 0.973  $\chi^2$ /NDF: 344054.4/16

Left Out: 3915.321 $\pm$ 0.685  $\chi^2$ /NDF: 3323711.2/23

Right Out: 2693.503 $\pm$ 0.782  $\chi^2$ /NDF: 2125842.2/17

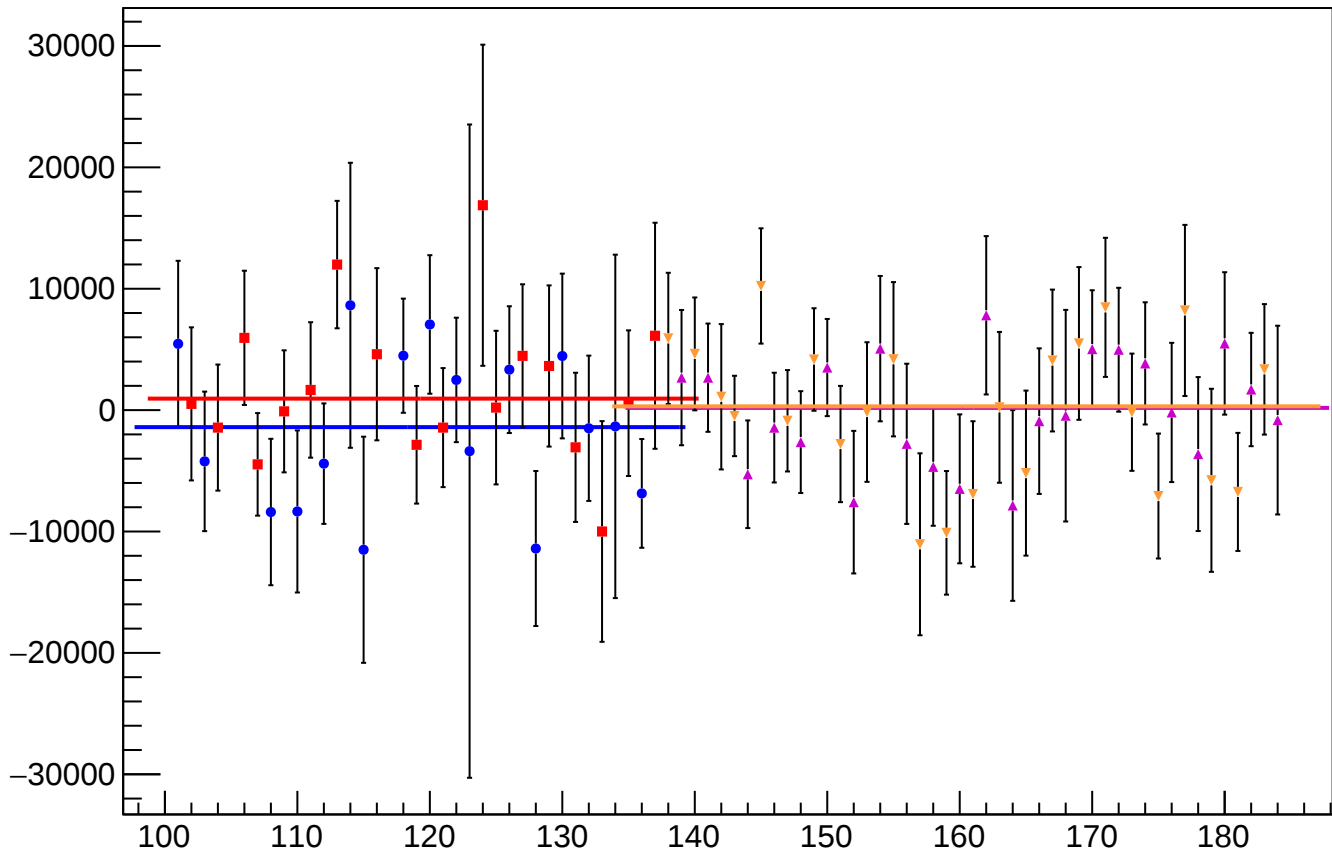
Left In: 4414.418 $\pm$ 0.758  $\chi^2$ /NDF: 1158672.6/22

+ sign 3781.247 $\pm$ 0.560  $\chi^2$ /NDF: 3783353.7/40

All: 3677.882 $\pm$ 0.390  $\chi^2$ /NDF: 9631100.4/83

- sign 3580.273 $\pm$ 0.544  $\chi^2$ /NDF: 5781525.4/40

# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1401.442 $\pm$ 1504.149  $\chi^2$ /NDF: 15.8/16

Left Out: 309.978 $\pm$ 1073.339  $\chi^2$ /NDF: 26.2/23

Right Out: 947.960 $\pm$ 1382.709  $\chi^2$ /NDF: 12.5/17

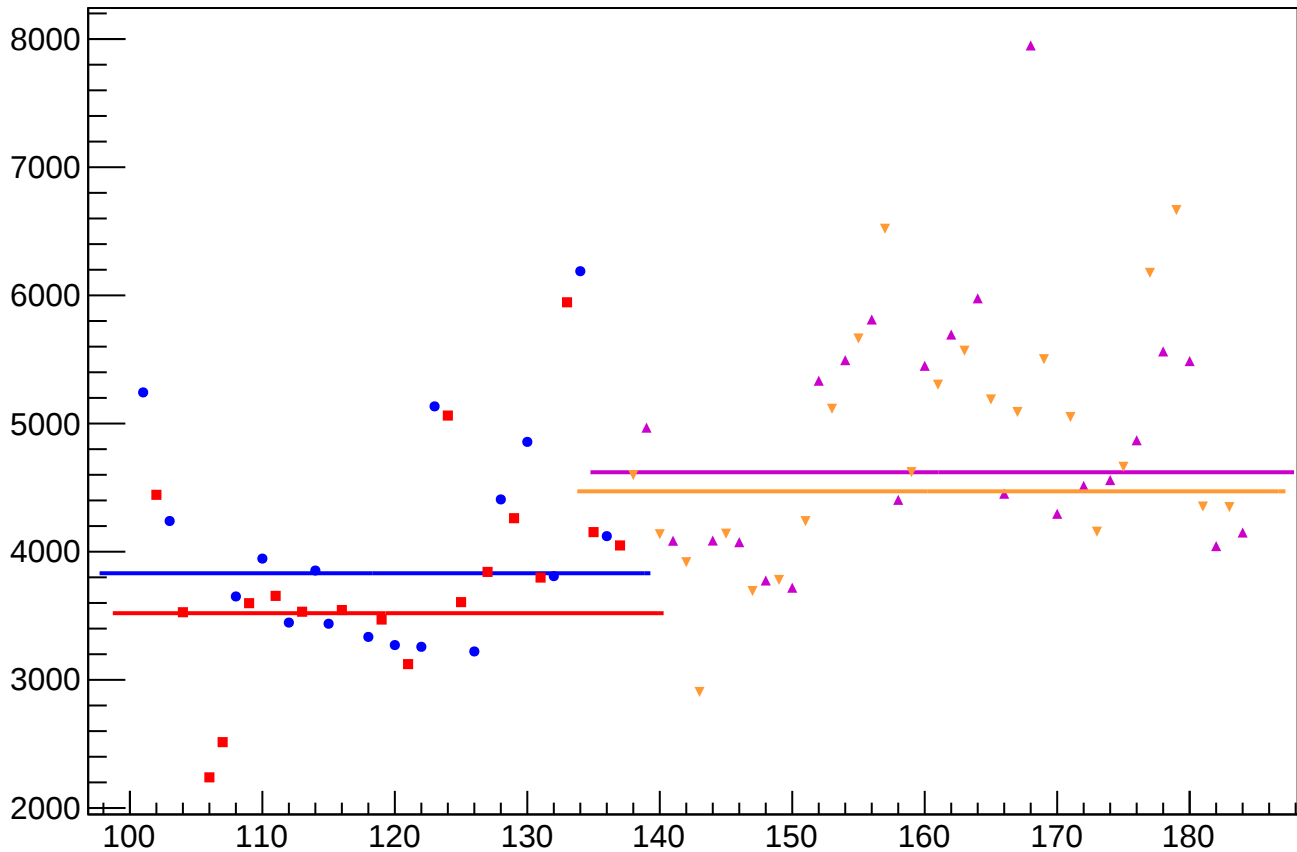
Left In: 185.280 $\pm$ 1119.296  $\chi^2$ /NDF: 14.3/22

+ sign -267.453 $\pm$ 873.701  $\chi^2$ /NDF: 42.9/40

All: 111.487 $\pm$ 616.480  $\chi^2$ /NDF: 70.1/81

- sign 487.205 $\pm$ 869.979  $\chi^2$ /NDF: 26.9/40

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3831.818+/-1.064  $\chi^2/\text{NDF}$ : 337707.1/16

Left Out: 4471.023+/-0.759  $\chi^2/\text{NDF}$ : 1379465.5/23

Right Out: 3520.188+/-0.969  $\chi^2/\text{NDF}$ : 544143.8/17

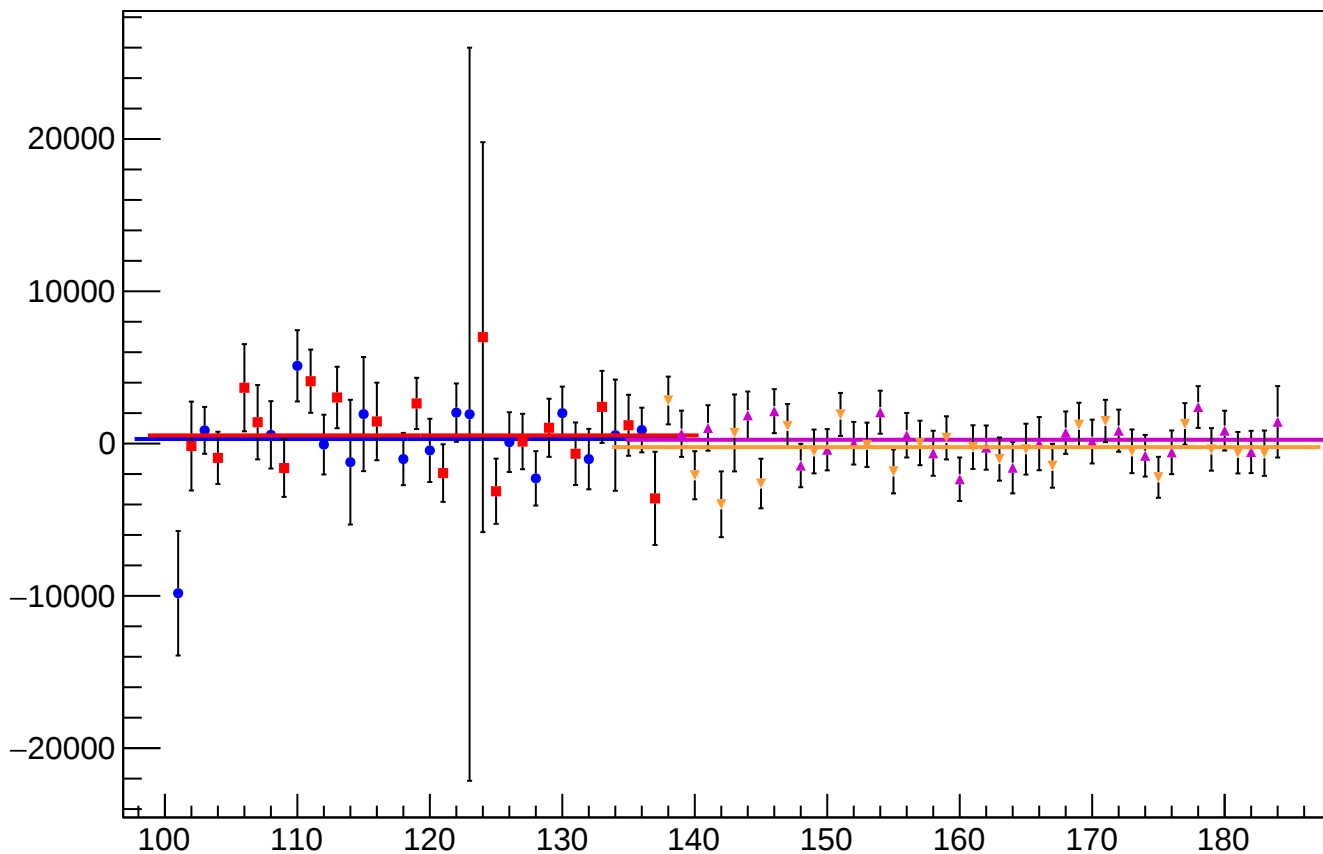
Left In: 4619.952+/-0.791  $\chi^2/\text{NDF}$ : 1001966.3/22

+ sign 4255.349+/-0.618  $\chi^2/\text{NDF}$ : 1956501.6/40

All: 4217.248+/-0.435  $\chi^2/\text{NDF}$ : 4283008.7/83

- sign 4179.747+/-0.613  $\chi^2/\text{NDF}$ : 2318960.1/40

dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 301.968 $\pm$ 512.834  $\chi^2$ /NDF: 16.1/16

Left Out: -232.918 $\pm$ 303.723  $\chi^2$ /NDF:22.4/23

Right Out: 537.727 $\pm$ 508.684  $\chi^2$ /NDF: 17.5/17

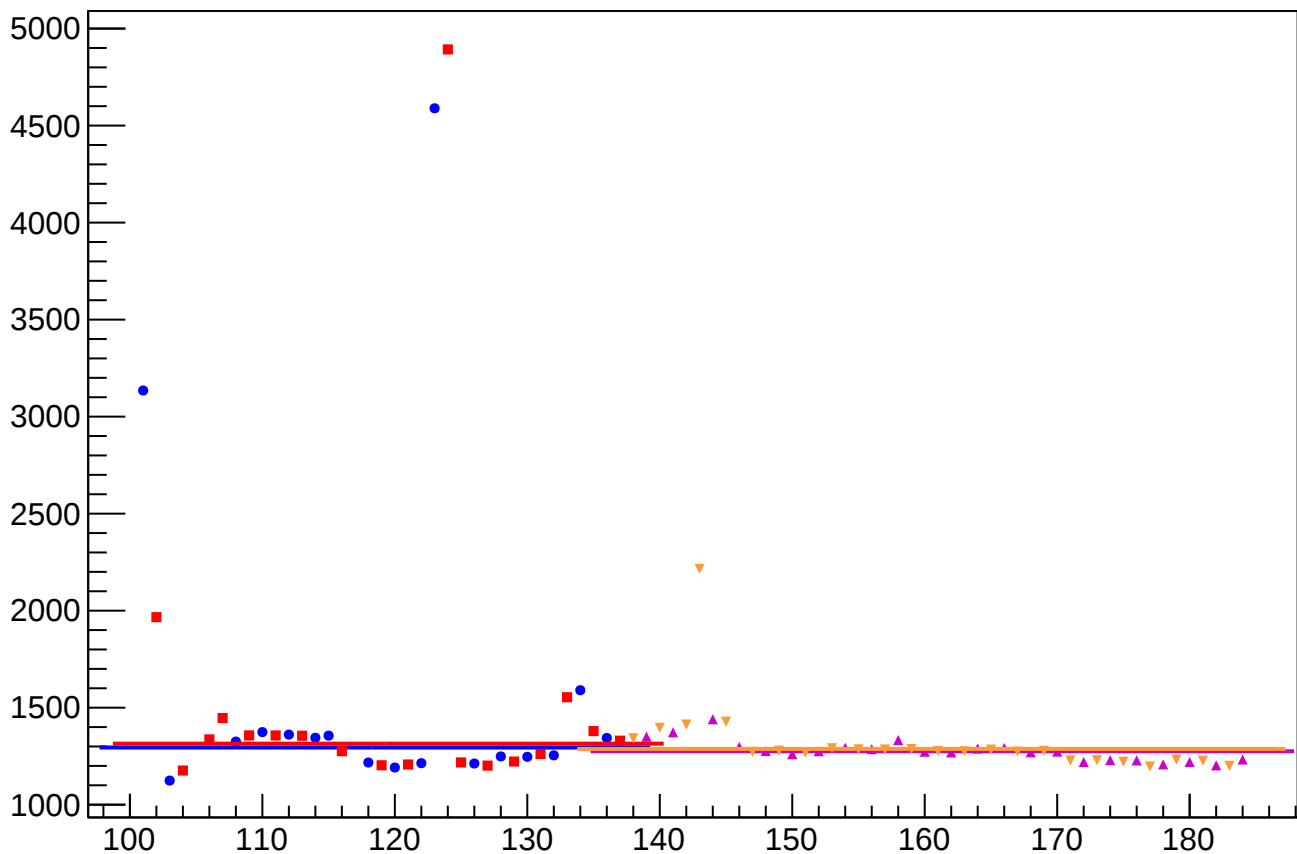
Left In: 250.313 $\pm$ 305.013  $\chi^2$ /NDF:15.9/22

+ sign -94.023 $\pm$ 261.330  $\chi^2$ /NDF: 39.3/40

All: 115.939 $\pm$ 184.881  $\chi^2$ /NDF: 74.2/81

- sign 326.321 $\pm$ 261.591  $\chi^2$ /NDF: 33.6/40

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1294.729+/-0.363  $\chi^2/\text{NDF}$ : 507803.9/16

Left Out: 1287.498+/-0.215  $\chi^2/\text{NDF}$ : 339330.2/23

Right Out: 1314.588+/-0.360  $\chi^2/\text{NDF}$ : 333838.6/17

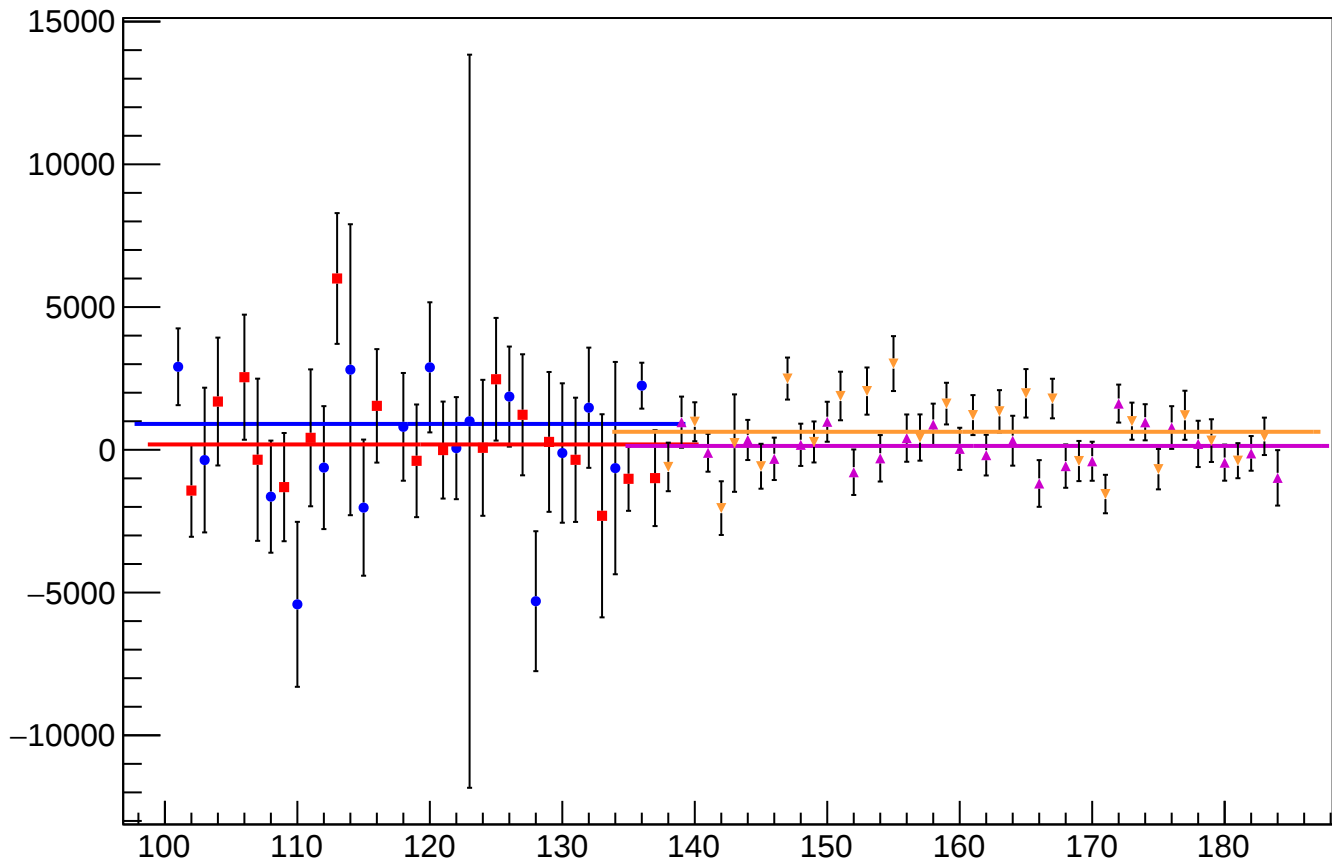
Left In: 1275.546+/-0.216  $\chi^2/\text{NDF}$ : 62488.3/22

+ sign 1289.376+/-0.185  $\chi^2/\text{NDF}$ : 847428.6/40

All: 1287.625+/-0.131  $\chi^2/\text{NDF}$ : 1252601.3/81

- sign 1285.871+/-0.185  $\chi^2/\text{NDF}$ : 404993.1/40

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug



Right In: 906.688 $\pm$ 455.840  $\chi^2/\text{NDF}$ : 22.0/16

Left Out: 631.515 $\pm$ 154.711  $\chi^2/\text{NDF}$ : 59.5/23

Right Out: 188.170 $\pm$ 464.537  $\chi^2/\text{NDF}$ : 13.8/17

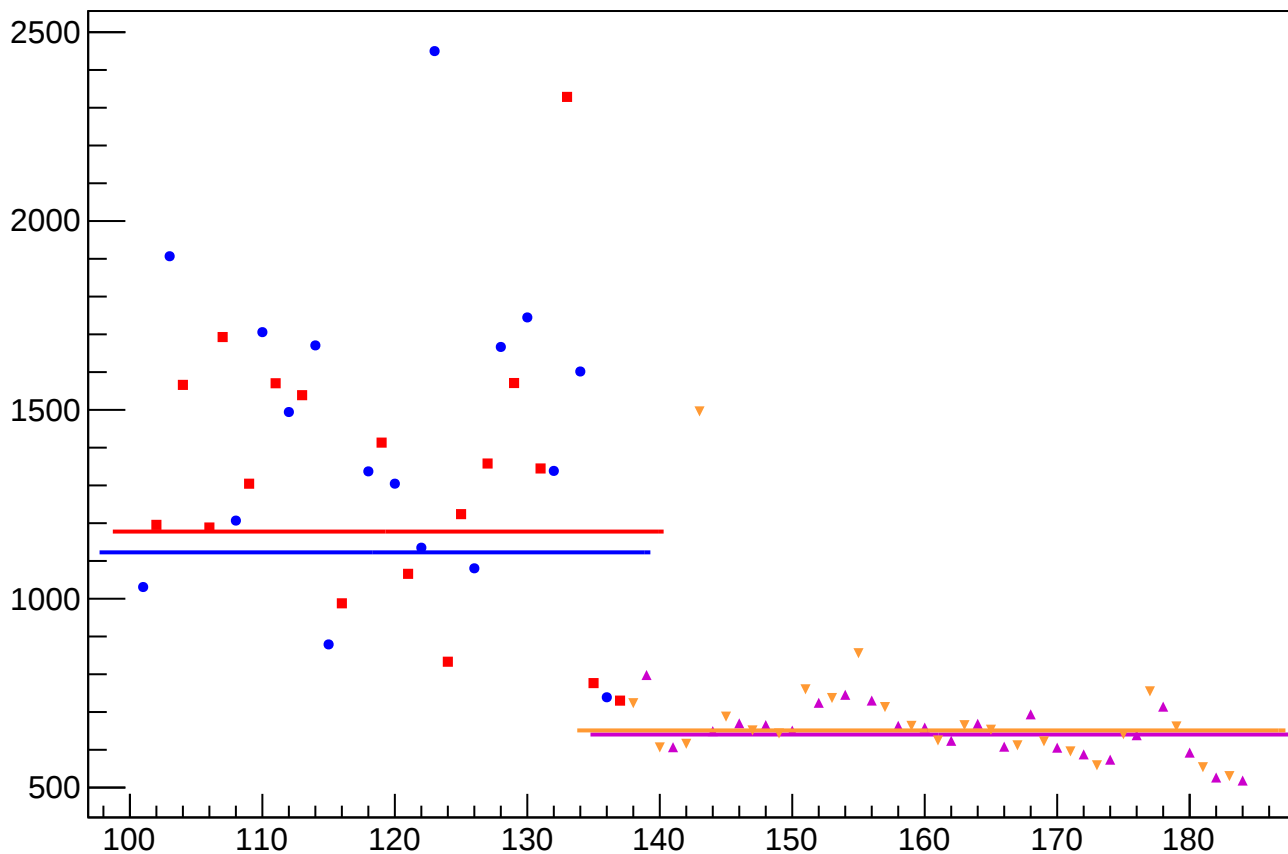
Left In: 135.888 $\pm$ 153.479  $\chi^2/\text{NDF}$ : 19.8/22

+ sign 659.938 $\pm$ 146.503  $\chi^2/\text{NDF}$ : 81.8/40

All: 399.115 $\pm$ 103.319  $\chi^2/\text{NDF}$ : 121.8/81

- sign 141.034 $\pm$ 145.731  $\chi^2/\text{NDF}$ : 33.7/40

asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug



Right In: 1122.773 $\pm$ 0.322  $\chi^2$ /NDF: 1187996.4/16

Left Out: 651.300 $\pm$ 0.109  $\chi^2$ /NDF: 893072.7/23

Right Out: 1177.797 $\pm$ 0.328  $\chi^2$ /NDF: 1021710.1/17

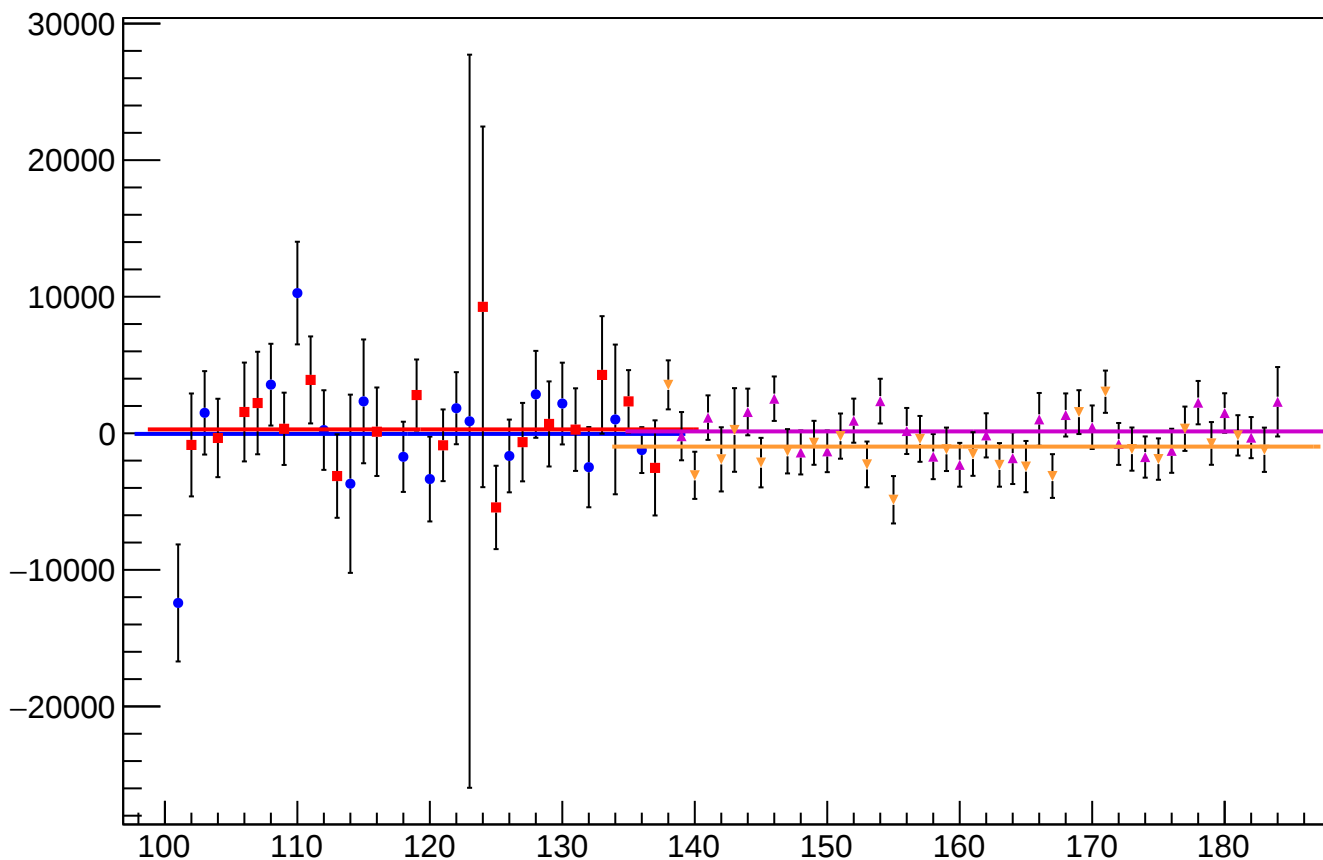
Left In: 640.460 $\pm$ 0.109  $\chi^2$ /NDF: 341526.8/22

+ sign 699.999 $\pm$ 0.104  $\chi^2$ /NDF: 3999605.2/40

All: 696.653 $\pm$ 0.073  $\chi^2$ /NDF: 7777549.4/81

- sign 693.342 $\pm$ 0.103  $\chi^2$ /NDF: 3775868.0/40

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In:  $-44.367 \pm 747.588$   $\chi^2/\text{NDF}$ : 23.2/16

Left Out:  $-975.027 \pm 342.322$   $\chi^2/\text{NDF}$ : 28.5/23

Right Out:  $285.373 \pm 735.391$   $\chi^2/\text{NDF}$ : 10.6/17

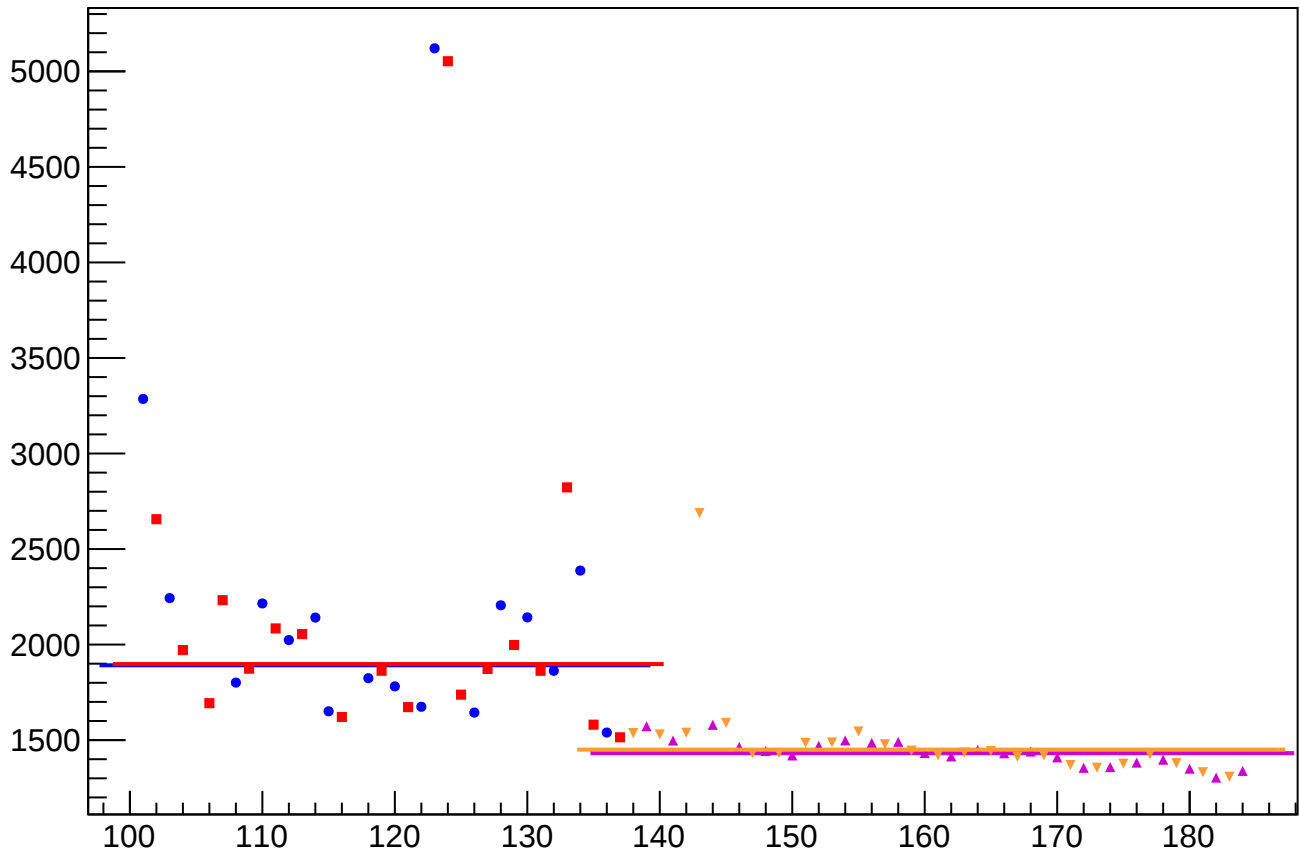
Left In:  $137.780 \pm 342.262$   $\chi^2/\text{NDF}$ : 18.8/22

+ sign  $-813.715 \pm 311.244$   $\chi^2/\text{NDF}$ : 53.0/40

All:  $-323.344 \pm 219.748$   $\chi^2/\text{NDF}$ : 87.3/81

- sign  $164.058 \pm 310.301$   $\chi^2/\text{NDF}$ : 29.4/40

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1891.668 $\pm$ 0.529  $\chi^2$ /NDF: 469088.3/16

Left Out: 1450.243 $\pm$ 0.242  $\chi^2$ /NDF: 411895.3/23

Right Out: 1898.010 $\pm$ 0.520  $\chi^2$ /NDF: 423694.9/17

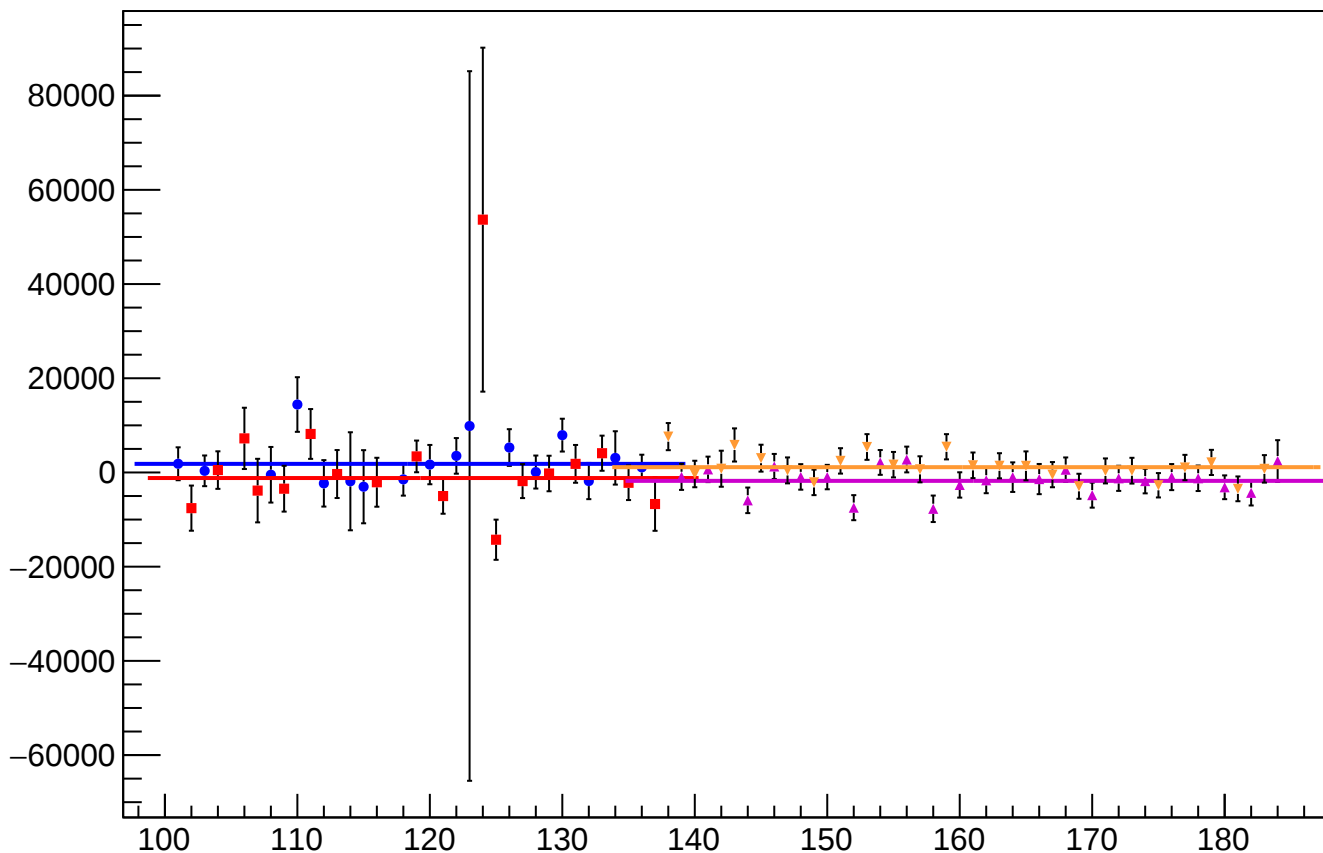
Left In: 1431.663 $\pm$ 0.242  $\chi^2$ /NDF: 77792.5/22

+ sign 1526.756 $\pm$ 0.220  $\chi^2$ /NDF: 1457424.8/40

All: 1520.708 $\pm$ 0.155  $\chi^2$ /NDF: 2621523.9/83

- sign 1514.695 $\pm$ 0.219  $\chi^2$ /NDF: 1162592.9/40

# dit\_asym\_atl1\_mean vs Slug



Right In: 1825.042 $\pm$ 1010.167  $\chi^2$ /NDF: 12.6/16

Left Out: 1123.883 $\pm$ 568.554  $\chi^2$ /NDF: 22.8/23

Right Out: -1182.804 $\pm$ 1049.924  $\chi^2$ /NDF: 25.5/17

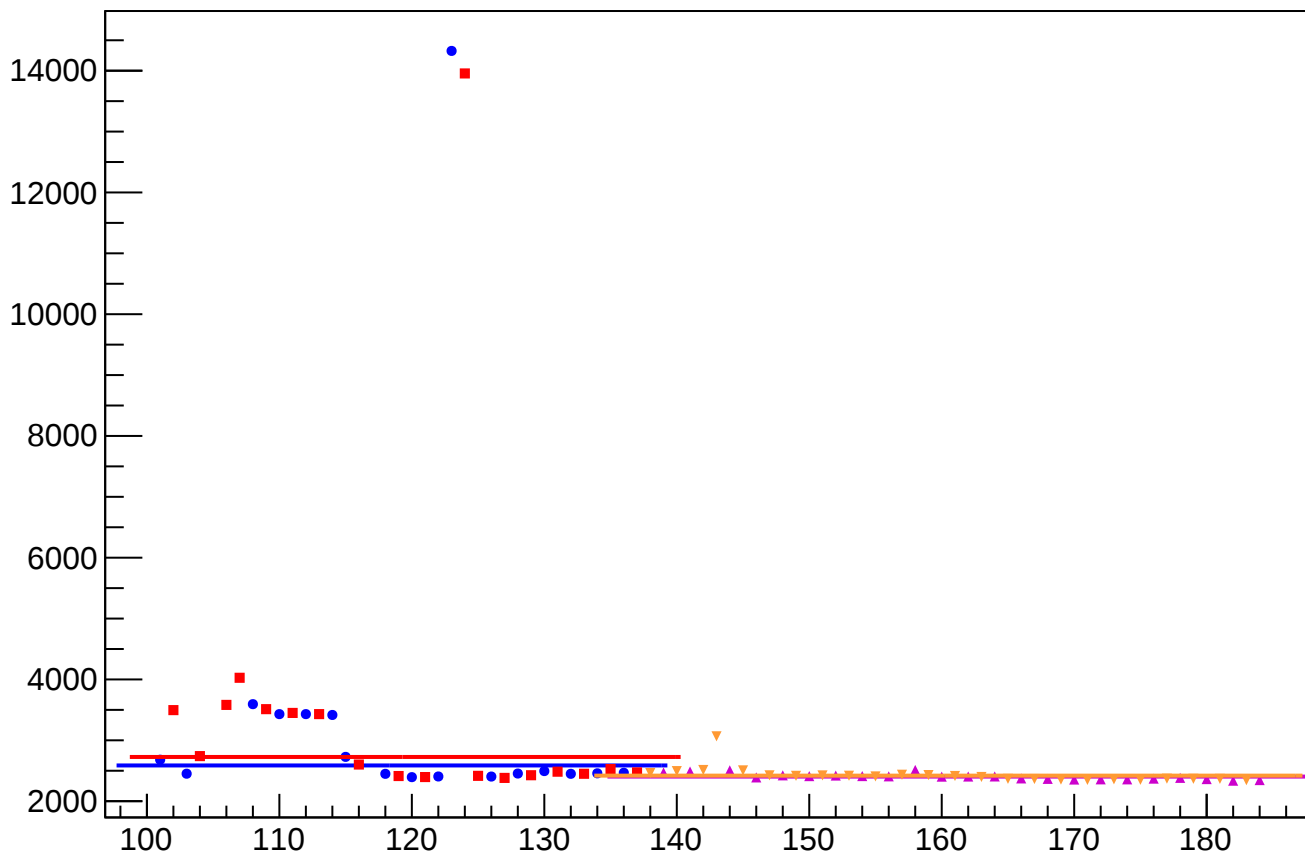
Left In: -1782.787 $\pm$ 574.111  $\chi^2$ /NDF: 23.3/22

+ sign 1292.561 $\pm$ 495.467  $\chi^2$ /NDF: 35.7/40

All: -151.797 $\pm$ 353.231  $\chi^2$ /NDF: 102.0/81

- sign -1644.683 $\pm$ 503.722  $\chi^2$ /NDF: 49.0/40

# dit\_asym\_atl1\_rms vs Slug



Right In:  $2586.978 \pm 0.714$   $\chi^2/\text{NDF}$ : 254112.7/16

Left Out:  $2419.781 \pm 0.402$   $\chi^2/\text{NDF}$ : 82397.9/23

Right Out:  $2726.457 \pm 0.742$   $\chi^2/\text{NDF}$ : 580850.1/17

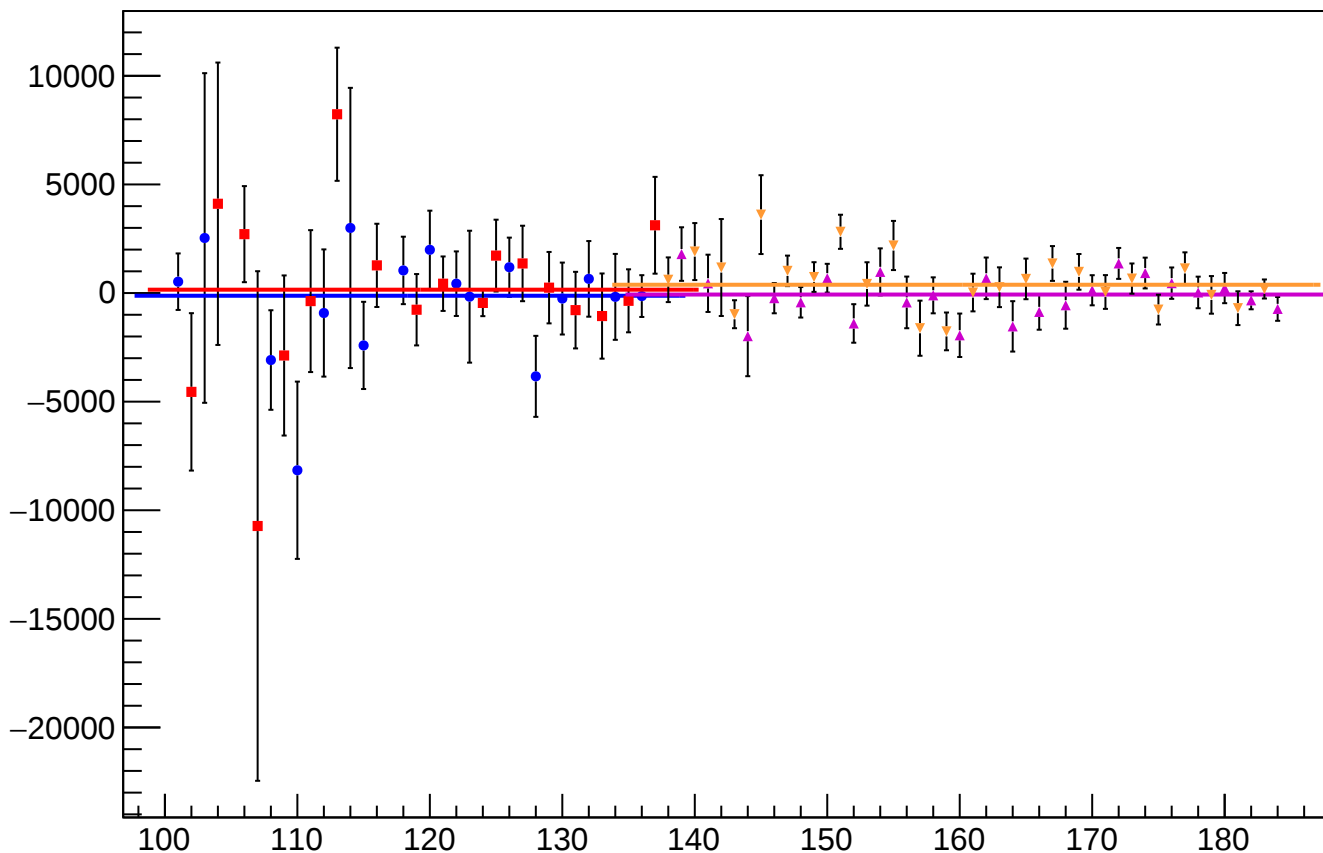
Left In:  $2404.189 \pm 0.406$   $\chi^2/\text{NDF}$ : 14231.7/22

+ sign  $2460.004 \pm 0.350$   $\chi^2/\text{NDF}$ : 378119.8/40

All:  $2469.034 \pm 0.250$   $\chi^2/\text{NDF}$ : 1119609.6/83

- sign  $2478.368 \pm 0.356$   $\chi^2/\text{NDF}$ : 740138.7/40

# asym\_atl1\_correction\_mean vs Slug



Right In:  $-124.472 \pm 430.760$   $\chi^2/\text{NDF}$ : 14.7/16

Left Out:  $381.895 \pm 165.436$   $\chi^2/\text{NDF}$ : 39.9/23

Right Out:  $154.579 \pm 380.922$   $\chi^2/\text{NDF}$ : 17.6/17

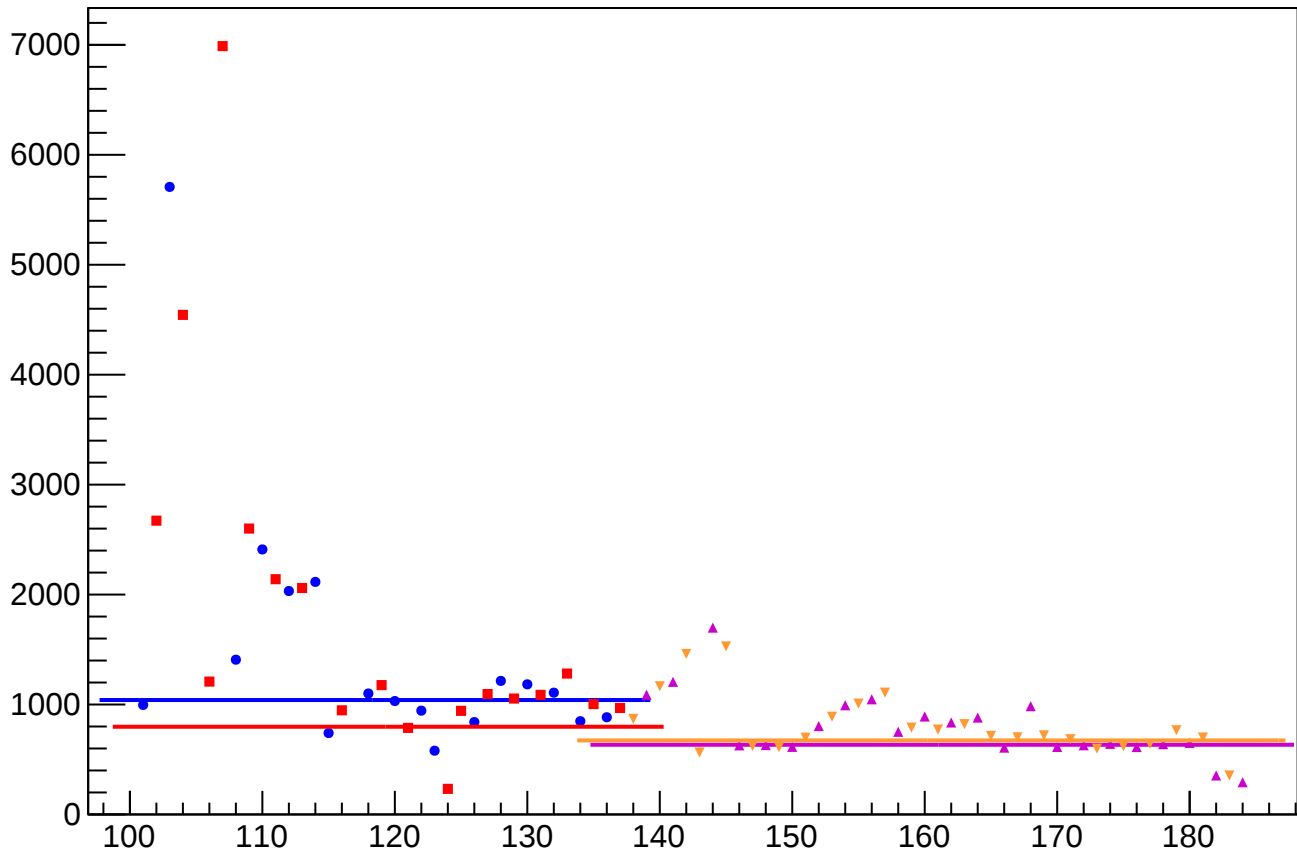
Left In:  $-69.054 \pm 161.241$   $\chi^2/\text{NDF}$ : 24.0/22

+ sign  $316.807 \pm 154.438$   $\chi^2/\text{NDF}$ : 55.8/40

All:  $133.957 \pm 107.038$   $\chi^2/\text{NDF}$ : 100.3/81

- sign  $-35.073 \pm 148.486$   $\chi^2/\text{NDF}$ : 41.8/40

# asym\_atl1\_correction\_rms vs Slug



Right In: 1040.760 $\pm$ 0.305  $\chi^2$ /NDF: 1573034.8/16

Left Out: 673.337 $\pm$ 0.117  $\chi^2$ /NDF: 2884476.1/23

Right Out: 797.732 $\pm$ 0.269  $\chi^2$ /NDF: 5174332.0/17

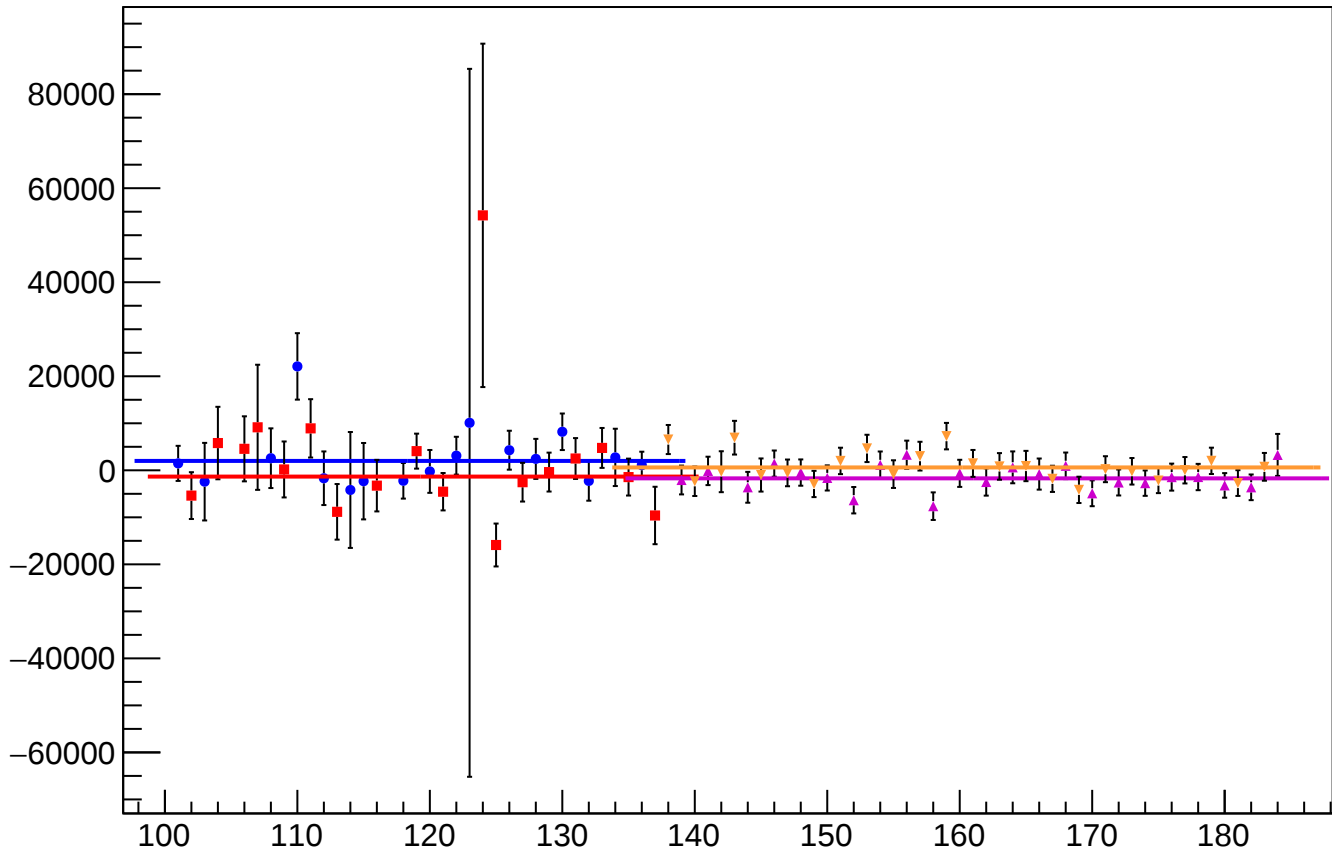
Left In: 633.854 $\pm$ 0.114  $\chi^2$ /NDF: 4111957.5/22

+ sign 720.565 $\pm$ 0.109  $\chi^2$ /NDF: 5725569.6/40

All: 688.446 $\pm$ 0.076  $\chi^2$ /NDF: 15492251.8/83

- sign 658.755 $\pm$ 0.105  $\chi^2$ /NDF: 9600209.5/40

# asym\_atl1\_mean vs Slug



Right In: 1996.263+/-1155.054  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 611.128+/-601.707  $\chi^2/\text{NDF}$ : 25.0/23

Right Out: -1336.627+/-1193.730  $\chi^2/\text{NDF}$ : 27.5/17

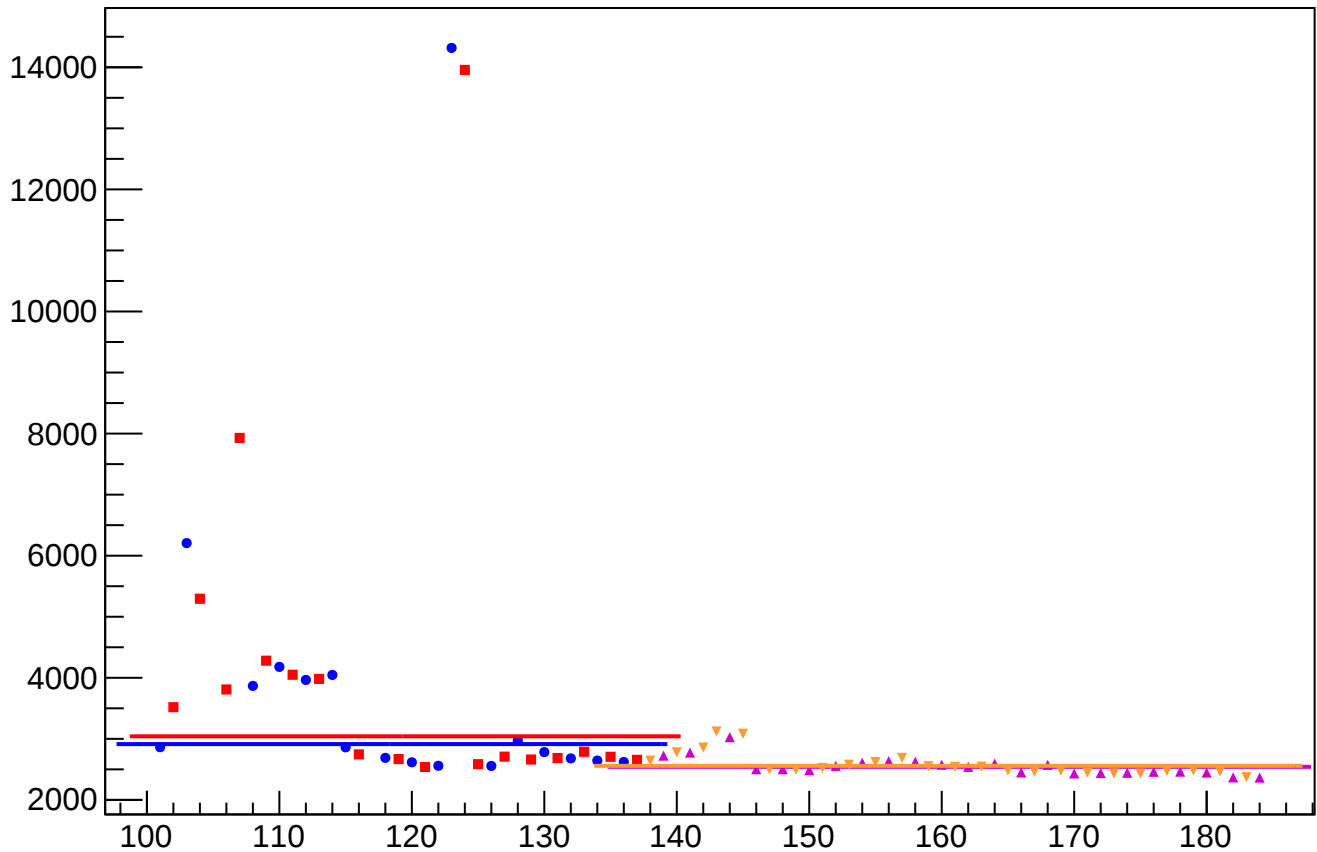
Left In: -1713.317+/-607.775  $\chi^2/\text{NDF}$ : 18.1/22

+ sign 906.783+/-533.640  $\chi^2/\text{NDF}$ : 41.1/40

All: -345.635+/-380.129  $\chi^2/\text{NDF}$ : 97.9/81

- sign -1635.772+/-541.616  $\chi^2/\text{NDF}$ : 45.6/40

# asym\_atl1\_rms vs Slug



Right In: 2913.875+/-0.817  $\chi^2/\text{NDF}$ : 638984.6/16

Left Out: 2558.130+/-0.425  $\chi^2/\text{NDF}$ : 151781.1/23

Right Out: 3041.227+/-0.844  $\chi^2/\text{NDF}$ : 1003583.4/17

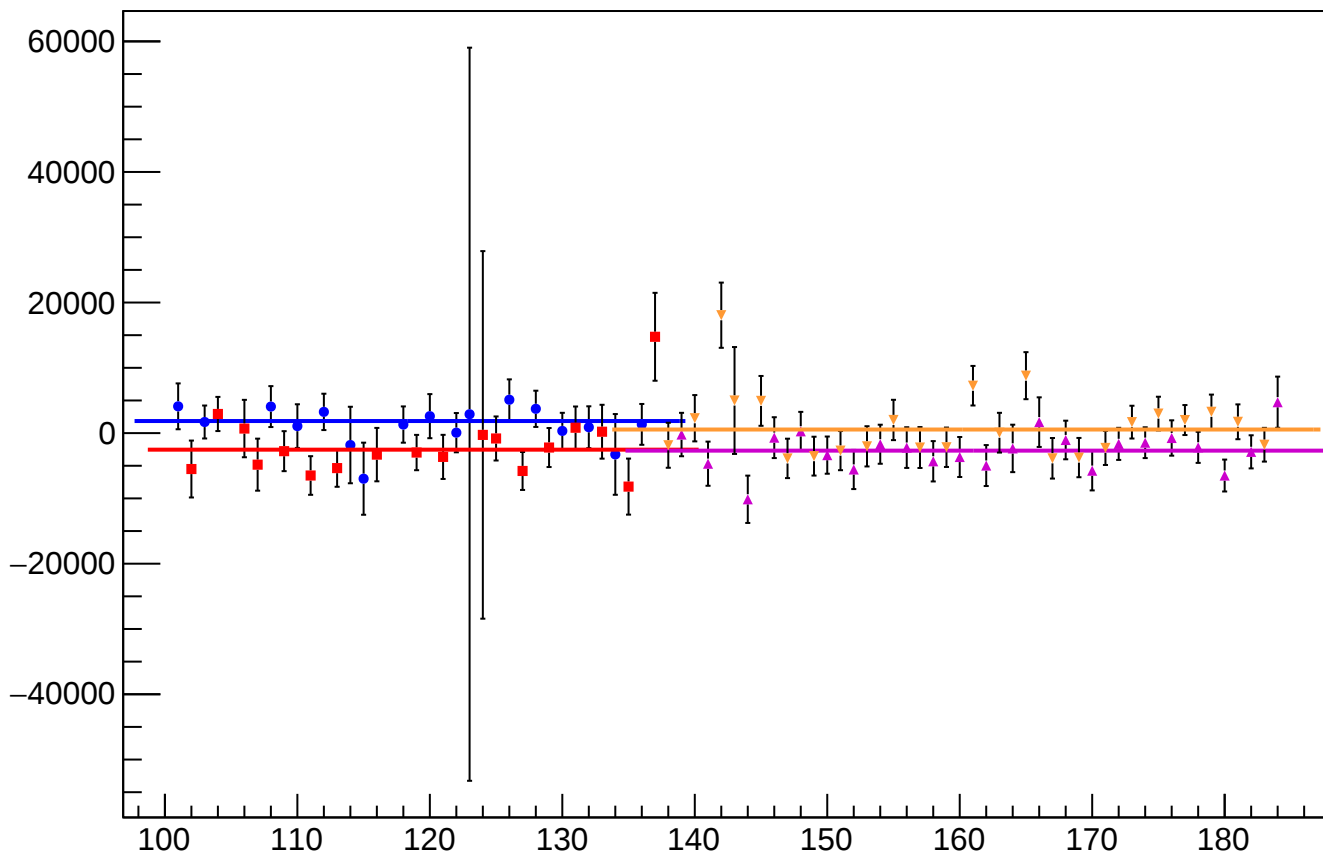
Left In: 2541.950+/-0.430  $\chi^2/\text{NDF}$ : 97238.4/22

+ sign 2634.063+/-0.377  $\chi^2/\text{NDF}$ : 939987.2/40

All: 2639.318+/-0.269  $\chi^2/\text{NDF}$ : 2319045.8/83

- sign 2644.731+/-0.383  $\chi^2/\text{NDF}$ : 1378664.9/40

# dit\_asym\_atl2\_mean vs Slug



Right In:  $1850.093 \pm 806.760$   $\chi^2/\text{NDF}$ : 7.3/16

Left Out:  $550.108 \pm 616.540$   $\chi^2/\text{NDF}$ : 41.3/23

Right Out:  $-2535.163 \pm 819.322$   $\chi^2/\text{NDF}$ : 20.0/17

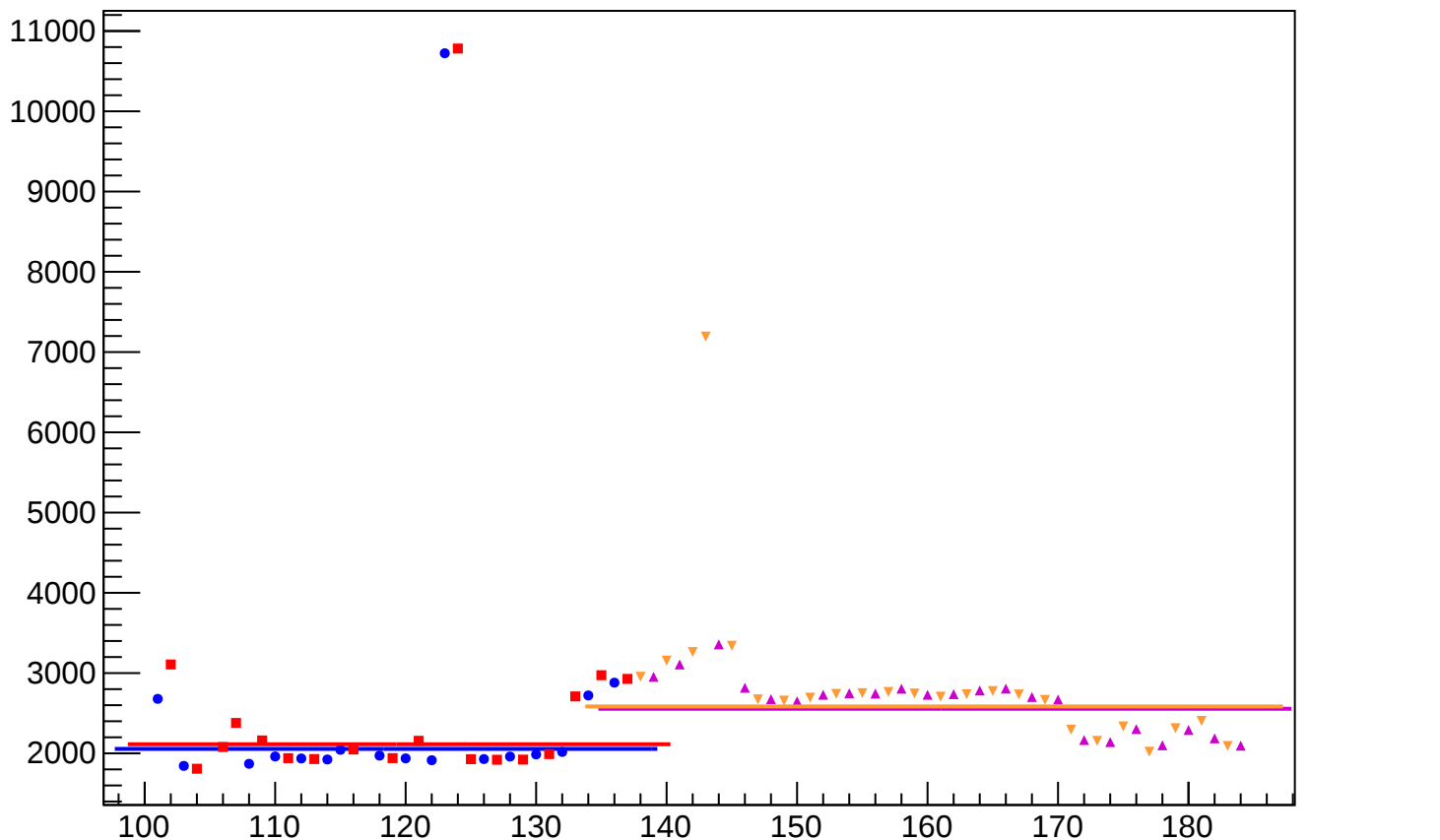
Left In:  $-2684.095 \pm 614.666$   $\chi^2/\text{NDF}$ : 18.2/22

+ sign  $1029.411 \pm 489.869$   $\chi^2/\text{NDF}$ : 50.2/40

All:  $-793.761 \pm 347.029$   $\chi^2/\text{NDF}$ : 116.3/81

- sign  $-2630.460 \pm 491.683$   $\chi^2/\text{NDF}$ : 38.3/40

# dit\_asym\_atl2\_rms vs Slug



Right In: 2055.447+/-0.570  $\chi^2/\text{NDF}$ : 316383.7/16

Left Out: 2584.366+/-0.436  $\chi^2/\text{NDF}$ :1198069.5/23

Right Out: 2113.304+/-0.578  $\chi^2/\text{NDF}$ : 532006.4/17

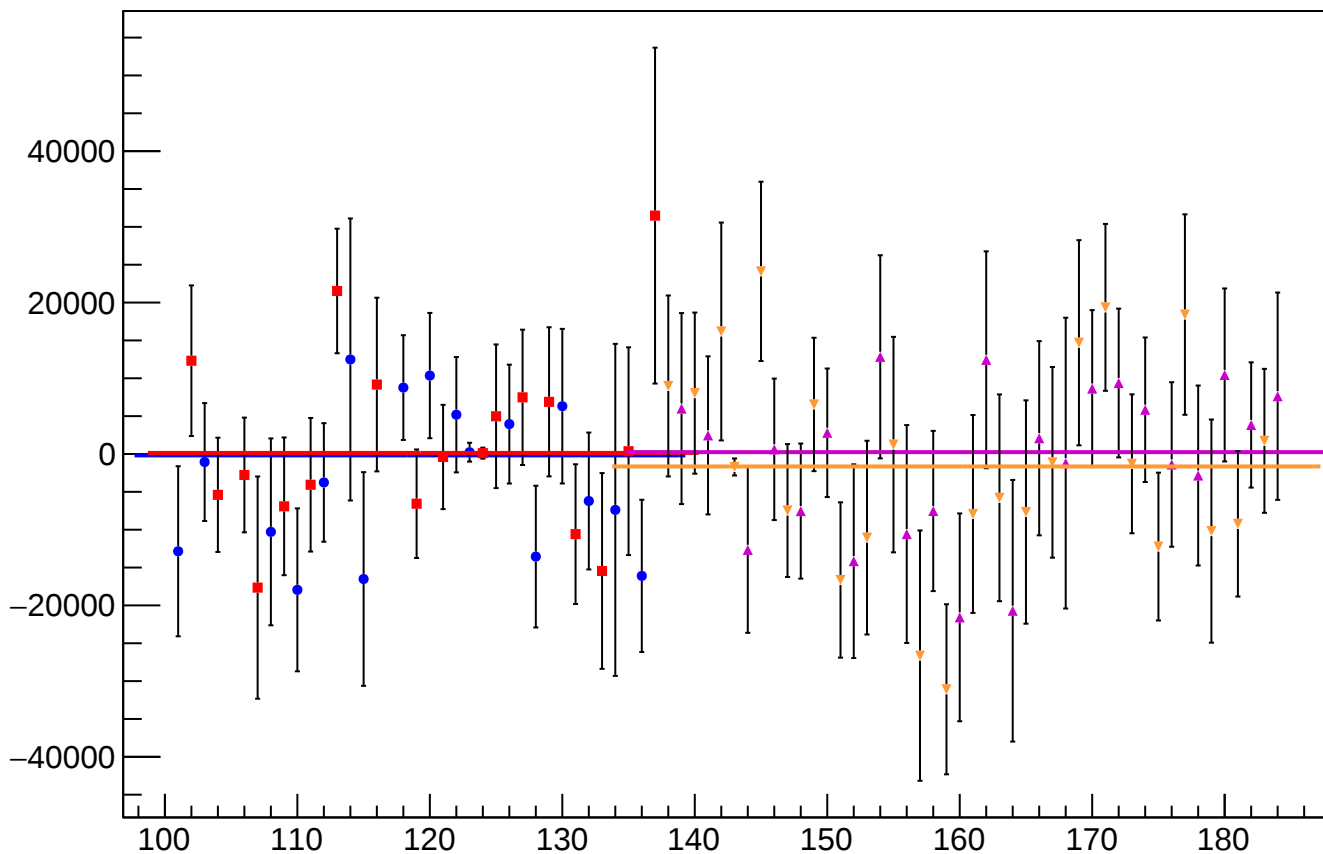
Left In: 2555.439+/-0.435  $\chi^2/\text{NDF}$ :568401.2/22

+ sign 2389.354+/-0.346  $\chi^2/\text{NDF}$ : 2057149.5/40

All: 2392.620+/-0.245  $\chi^2/\text{NDF}$ : 3531119.6/83

- sign 2395.906+/-0.347  $\chi^2/\text{NDF}$ : 1473791.7/40

# asym\_atl2\_correction\_mean vs Slug



Right In: -185.246 $\pm$ 1100.780  $\chi^2$ /NDF: 16.4/16

Left Out: -1647.649 $\pm$ 1015.277  $\chi^2$ /NDF: 31.2/23

Right Out: 141.935 $\pm$ 690.979  $\chi^2$ /NDF: 19.0/17

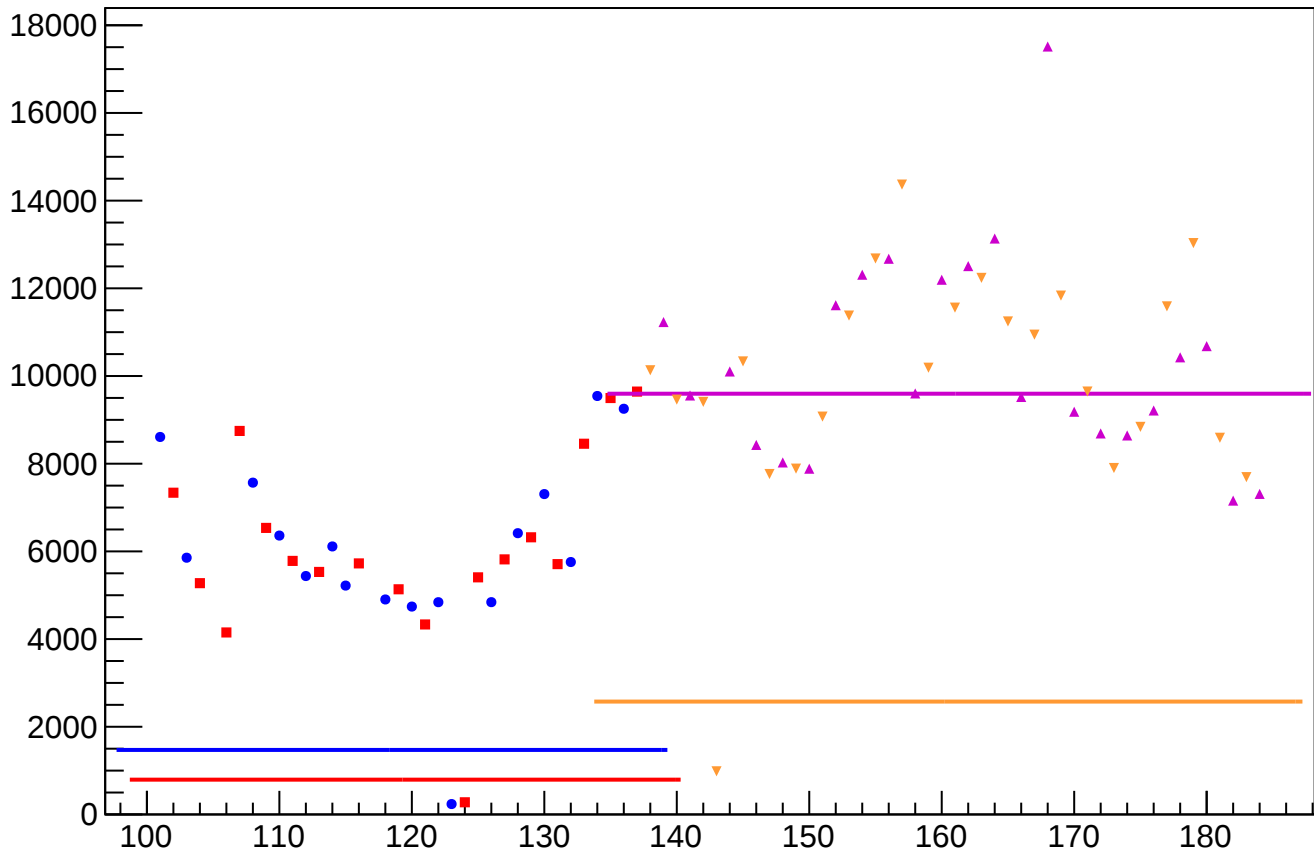
Left In: 245.792 $\pm$ 2336.154  $\chi^2$ /NDF: 13.7/22

+ sign -975.442 $\pm$ 746.308  $\chi^2$ /NDF: 48.5/40

All: -345.931 $\pm$ 495.494  $\chi^2$ /NDF: 82.5/81

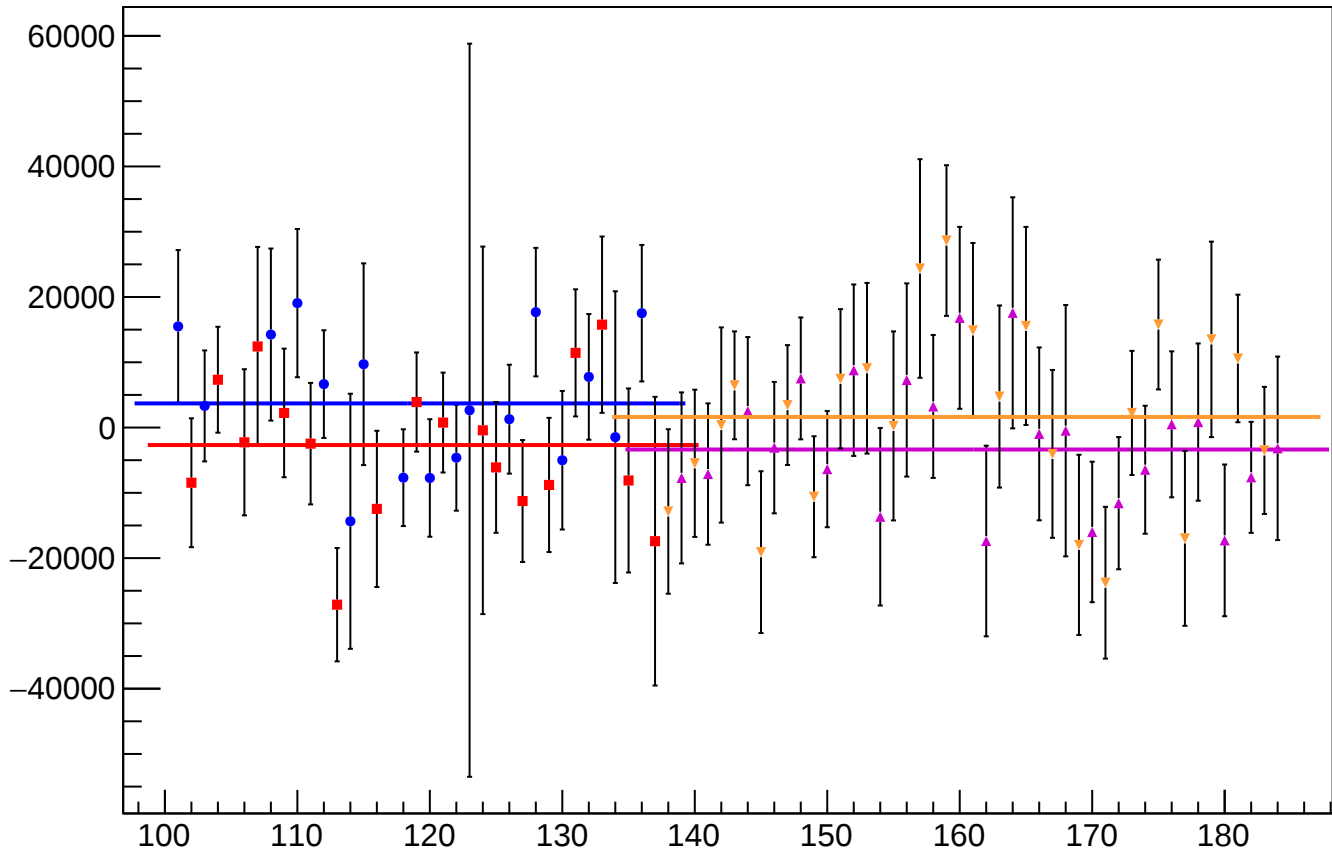
- sign 150.289 $\pm$ 662.603  $\chi^2$ /NDF: 32.7/40

# asym\_atl2\_correction\_rms vs Slug



|                            |                                     |                         |                                     |
|----------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Right In: 1471.609+/-0.778 | $\chi^2/\text{NDF}$ : 9788255.4/16  | + sign 2067.630+/-0.528 | $\chi^2/\text{NDF}$ : 34035152.5/40 |
| Left Out: 2574.655+/-0.718 | $\chi^2/\text{NDF}$ : 23161760.3/23 | All: 1751.213+/-0.350   | $\chi^2/\text{NDF}$ : 73525124.0/8  |
| Right Out: 793.659+/-0.489 | $\chi^2/\text{NDF}$ : 11422584.5/17 | - sign 1501.793+/-0.469 | $\chi^2/\text{NDF}$ : 38847070.3/40 |
| Left In: 9596.259+/-1.652  | $\chi^2/\text{NDF}$ : 1313330.2/22  |                         |                                     |

# asym\_atl2\_mean vs Slug



Right In: 3698.440+/-2517.949  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 1624.440+/-2358.421  $\chi^2/\text{NDF}$ : 29.2/23

Right Out: -2679.483+/-2428.648  $\chi^2/\text{NDF}$ : 18.5/17

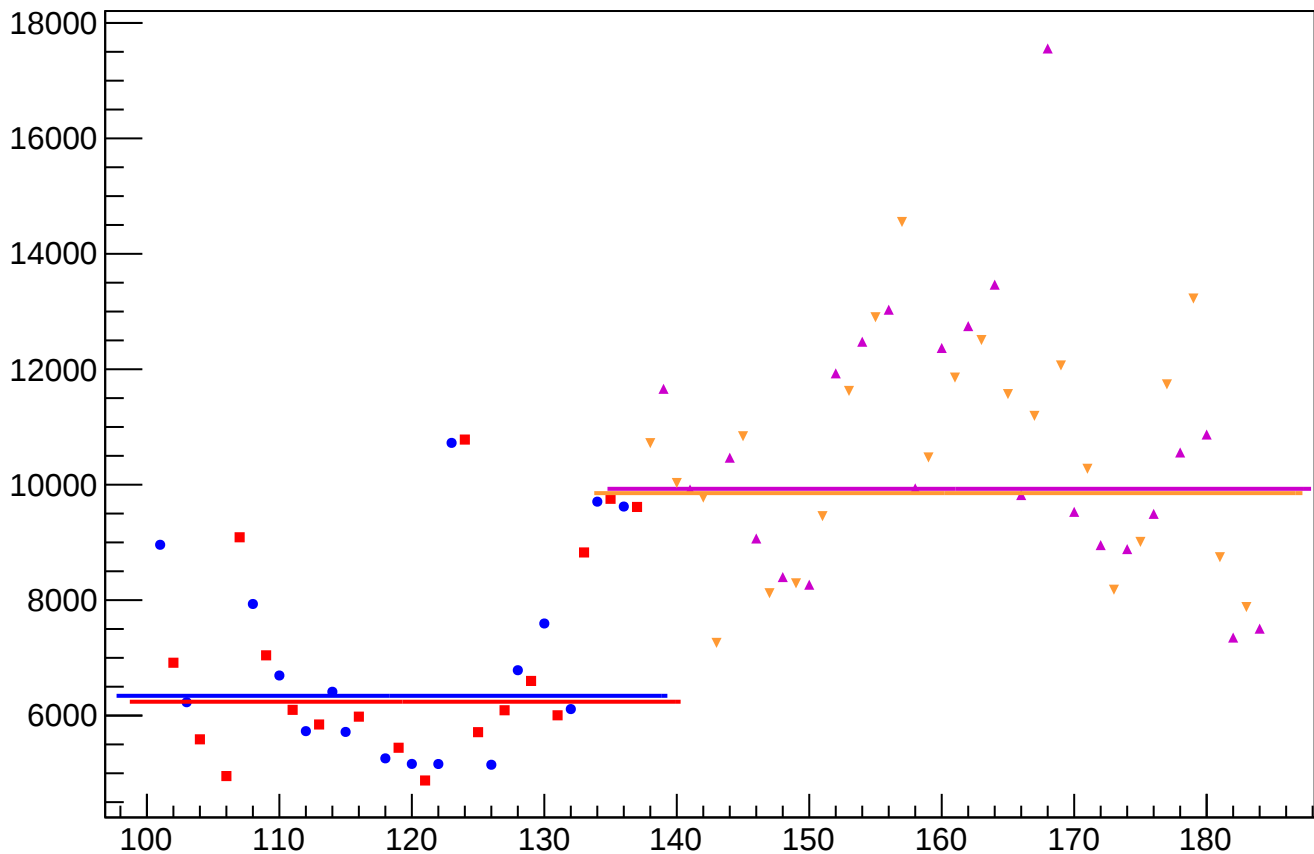
Left In: -3362.489+/-2413.842  $\chi^2/\text{NDF}$ : 12.8/22

+ sign 2593.662+/-1721.291  $\chi^2/\text{NDF}$ : 43.9/40

All: -229.816+/-1213.858  $\chi^2/\text{NDF}$ : 80.7/81

- sign -3023.074+/-1712.055  $\chi^2/\text{NDF}$ : 31.4/40

# asym\_atl2\_rms vs Slug



Right In: 6342.327 $\pm$ 1.780  $\chi^2$ /NDF: 593668.9/16

Left Out: 9853.864 $\pm$ 1.668  $\chi^2$ /NDF:1183169.6/23

Right Out: 6239.726 $\pm$ 1.717  $\chi^2$ /NDF: 529243.7/17

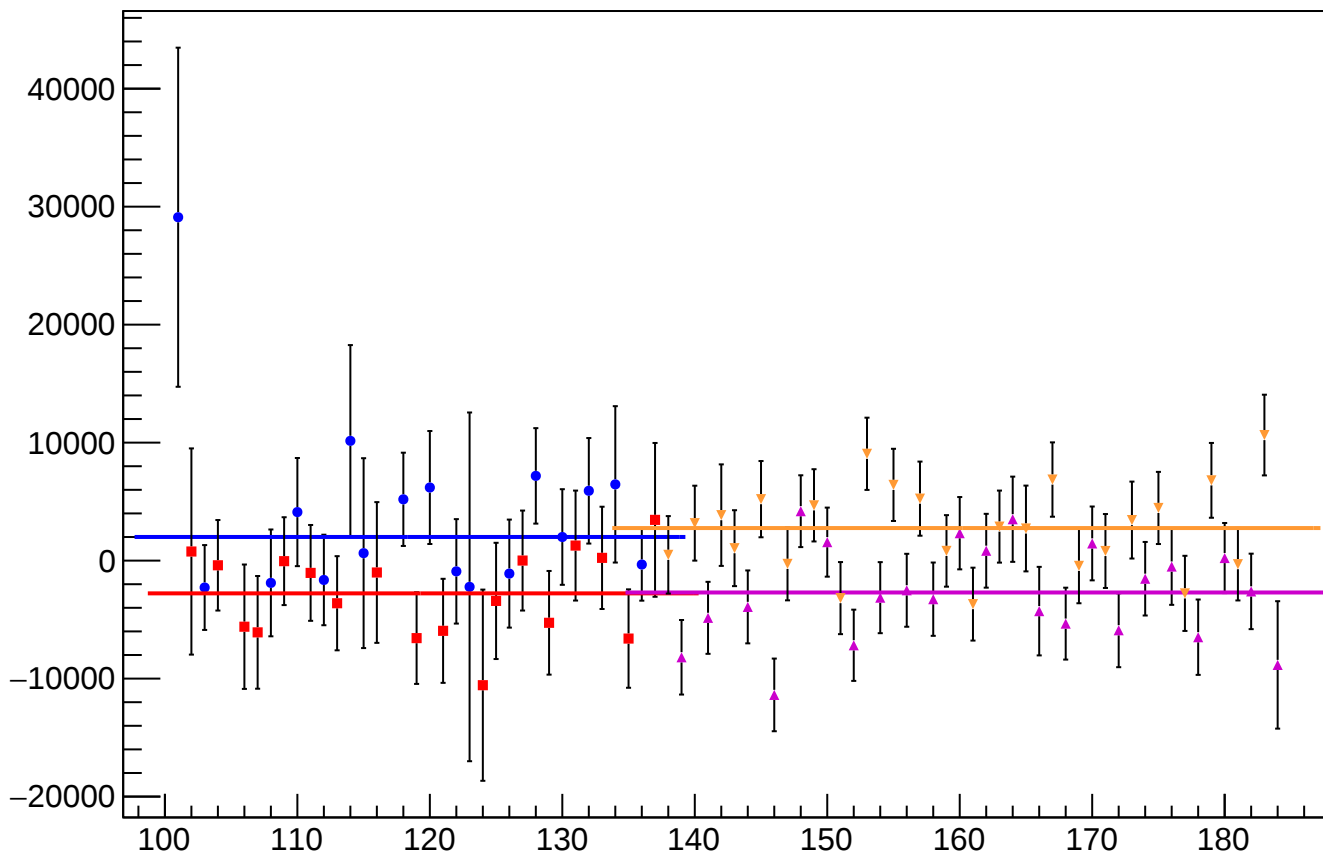
Left In: 9928.662 $\pm$ 1.707  $\chi^2$ /NDF:1220804.9/22

+ sign 8212.843 $\pm$ 1.217  $\chi^2$ /NDF: 3848881.8/40

All: 8153.798 $\pm$ 0.858  $\chi^2$ /NDF: 7924963.9/83

- sign 8095.387 $\pm$ 1.211  $\chi^2$ /NDF: 4071400.7/40

# dit\_asym\_atr1\_mean vs Slug



Right In: 2004.589 $\pm$ 1125.432  $\chi^2$ /NDF: 13.7/16

Left Out: 2759.609 $\pm$ 650.815  $\chi^2$ /NDF:32.0/23

Right Out: -2776.042 $\pm$ 1086.812  $\chi^2$ /NDF: 8.3/17

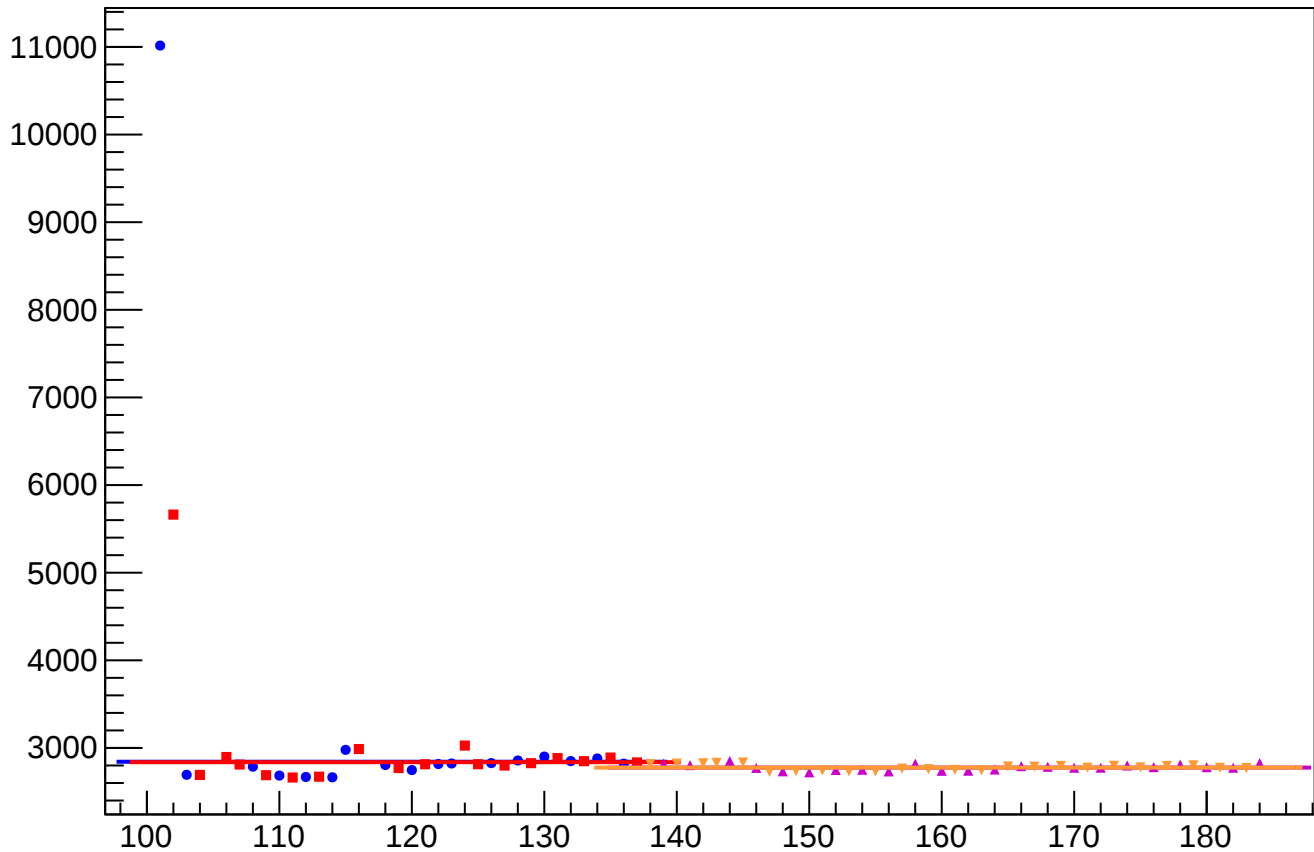
Left In: -2701.503 $\pm$ 662.221  $\chi^2$ /NDF:36.1/22

+ sign 2570.398 $\pm$ 563.395  $\chi^2$ /NDF: 46.1/40

All: -65.729 $\pm$ 399.126  $\chi^2$ /NDF: 134.4/81

- sign -2721.685 $\pm$ 565.510  $\chi^2$ /NDF: 44.4/40

# dit\_asym\_atr1\_rms vs Slug



Right In: 2842.628+/-0.796  $\chi^2/\text{NDF}$ : 660305.1/16

Left Out: 2775.890+/-0.460  $\chi^2/\text{NDF}$ : 4885.0/23

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

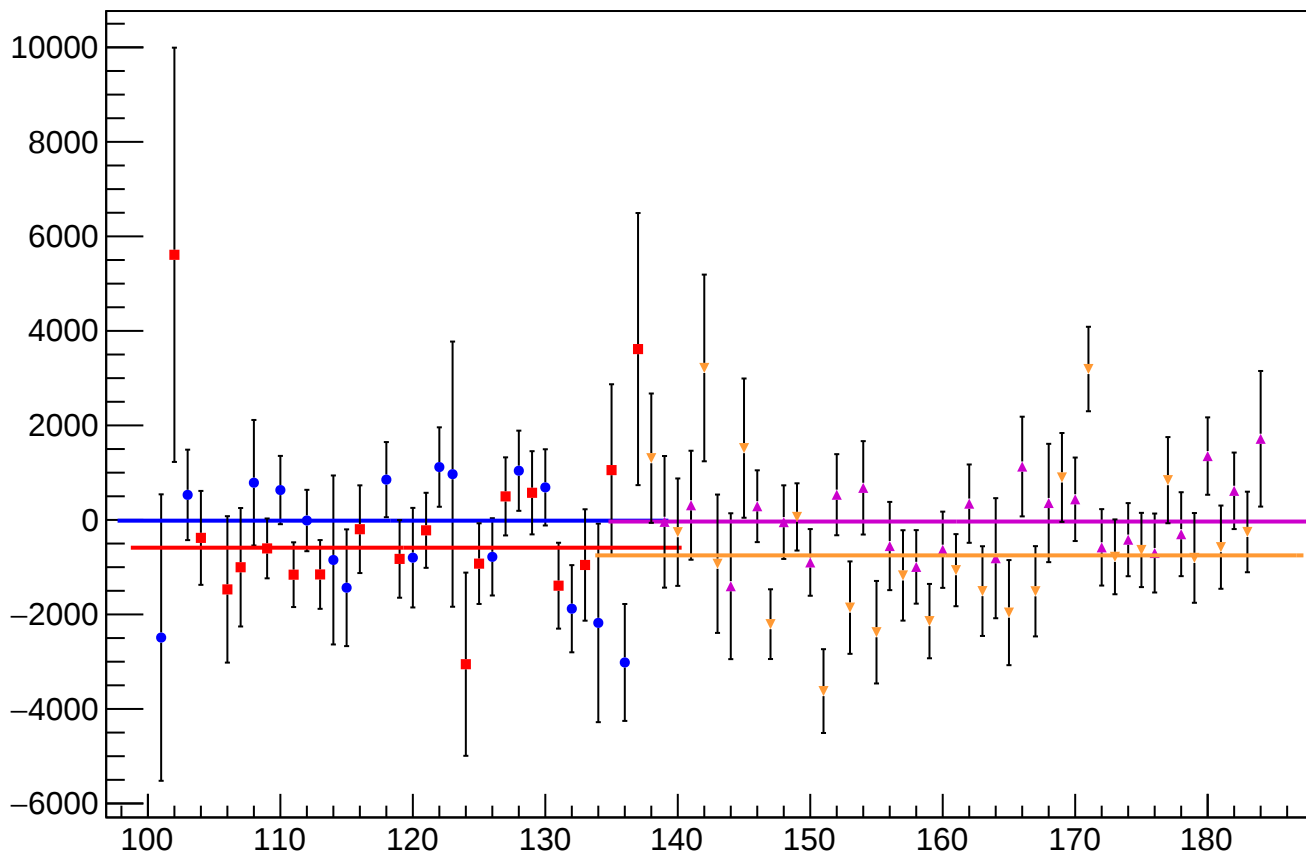
Left In: 2776.013+/-0.468  $\chi^2/\text{NDF}$ : 5154.3/22

+ sign 2792.615+/-0.398  $\chi^2/\text{NDF}$ : 670460.7/40

All: 2792.629+/-0.282  $\chi^2/\text{NDF}$ : 906696.1/81

- sign 2792.644+/-0.400  $\chi^2/\text{NDF}$ : 236235.4/40

# asym\_atr1\_correction\_mean vs Slug



Right In:  $-15.631 \pm 238.862$   $\chi^2/\text{NDF}$ : 21.6/16

Left Out:  $-750.226 \pm 190.736$   $\chi^2/\text{NDF}$ : 60.0/23

Right Out:  $-587.609 \pm 225.811$   $\chi^2/\text{NDF}$ : 13.3/17

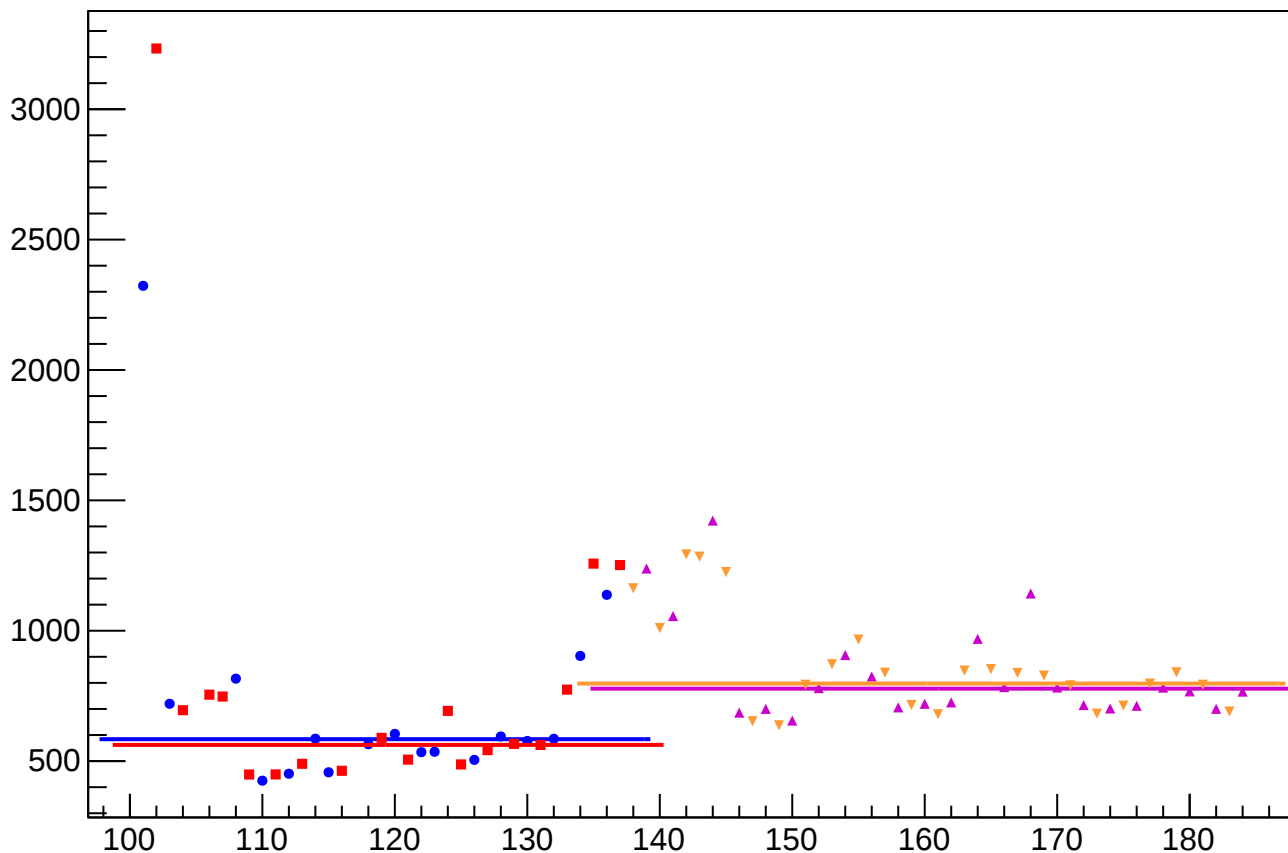
Left In:  $-34.290 \pm 188.671$   $\chi^2/\text{NDF}$ : 14.5/22

+ sign  $-464.203 \pm 149.047$   $\chi^2/\text{NDF}$ : 87.4/40

All:  $-360.047 \pm 103.853$   $\chi^2/\text{NDF}$ : 119.7/81

- sign  $-261.763 \pm 144.785$   $\chi^2/\text{NDF}$ : 31.4/40

# asym\_atr1\_correction\_rms vs Slug



Right In: 584.055+/-0.169     $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 797.447+/-0.135     $\chi^2/\text{NDF}$ : 1157358.7/23

Right Out: 562.122+/-0.160     $\chi^2/\text{NDF}$ : 1525298.9/17

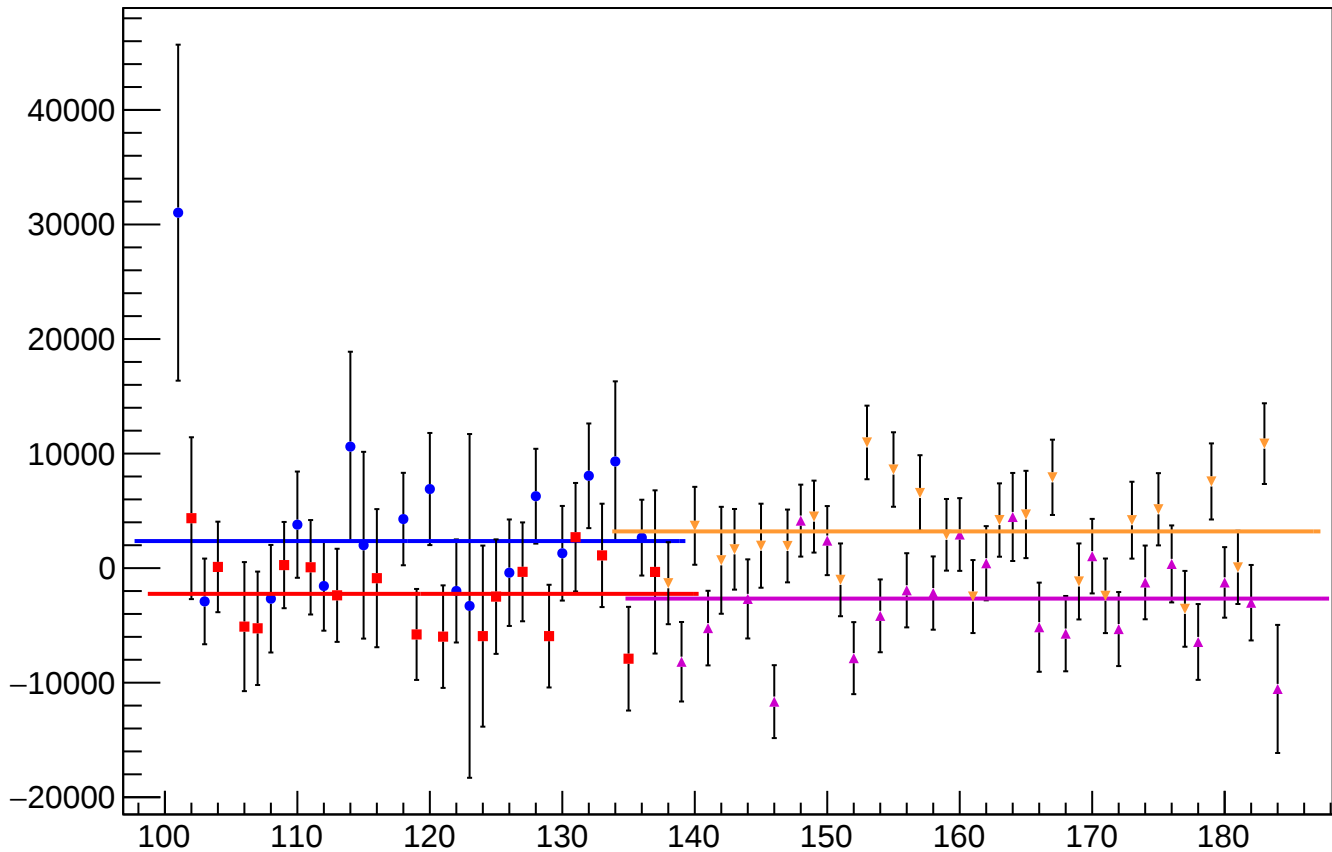
Left In: 777.887+/-0.133     $\chi^2/\text{NDF}$ : 1145609.7/22

+ sign 714.361+/-0.105     $\chi^2/\text{NDF}$ : 3568683.0/40

All: 701.407+/-0.073     $\chi^2/\text{NDF}$ : 7344270.5/81

- sign 689.184+/-0.102     $\chi^2/\text{NDF}$ : 3746227.8/40

# asym\_atr1\_mean vs Slug



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 3206.013 $\pm$ 683.095  $\chi^2$ /NDF:36.2/23

Right Out: -2245.410 $\pm$ 1111.935  $\chi^2$ /NDF: 8.5/17

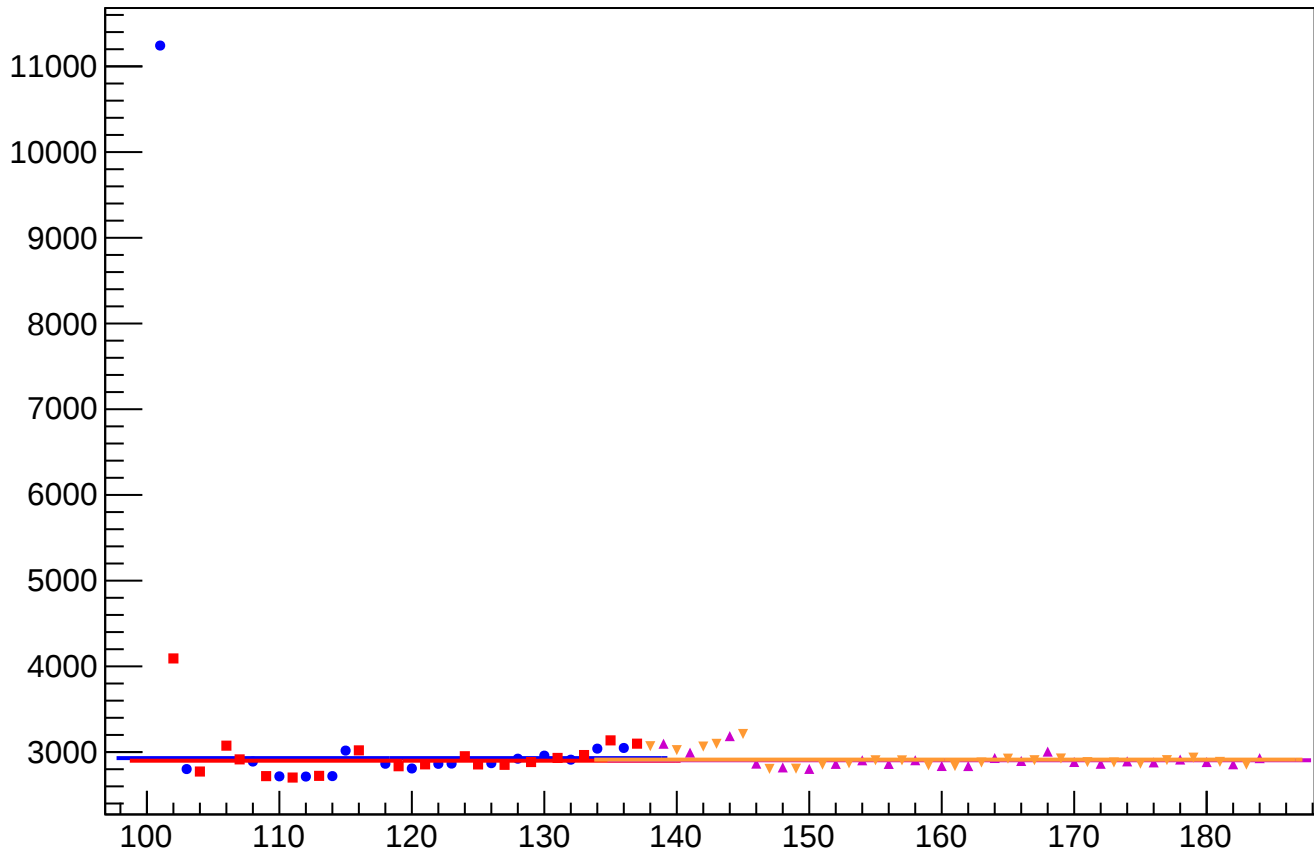
Left In: -2659.828 $\pm$ 693.121  $\chi^2$ /NDF:36.9/22

+ sign 2988.882 $\pm$ 588.611  $\chi^2$ /NDF: 51.7/40

All: 220.587 $\pm$ 416.066  $\chi^2$ /NDF: 141.5/81

- sign -2543.861 $\pm$ 588.202  $\chi^2$ /NDF: 45.5/40

# asym\_atr1\_rms vs Slug



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2912.053+/-0.483  $\chi^2/\text{NDF}$ : 36420.0/23

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

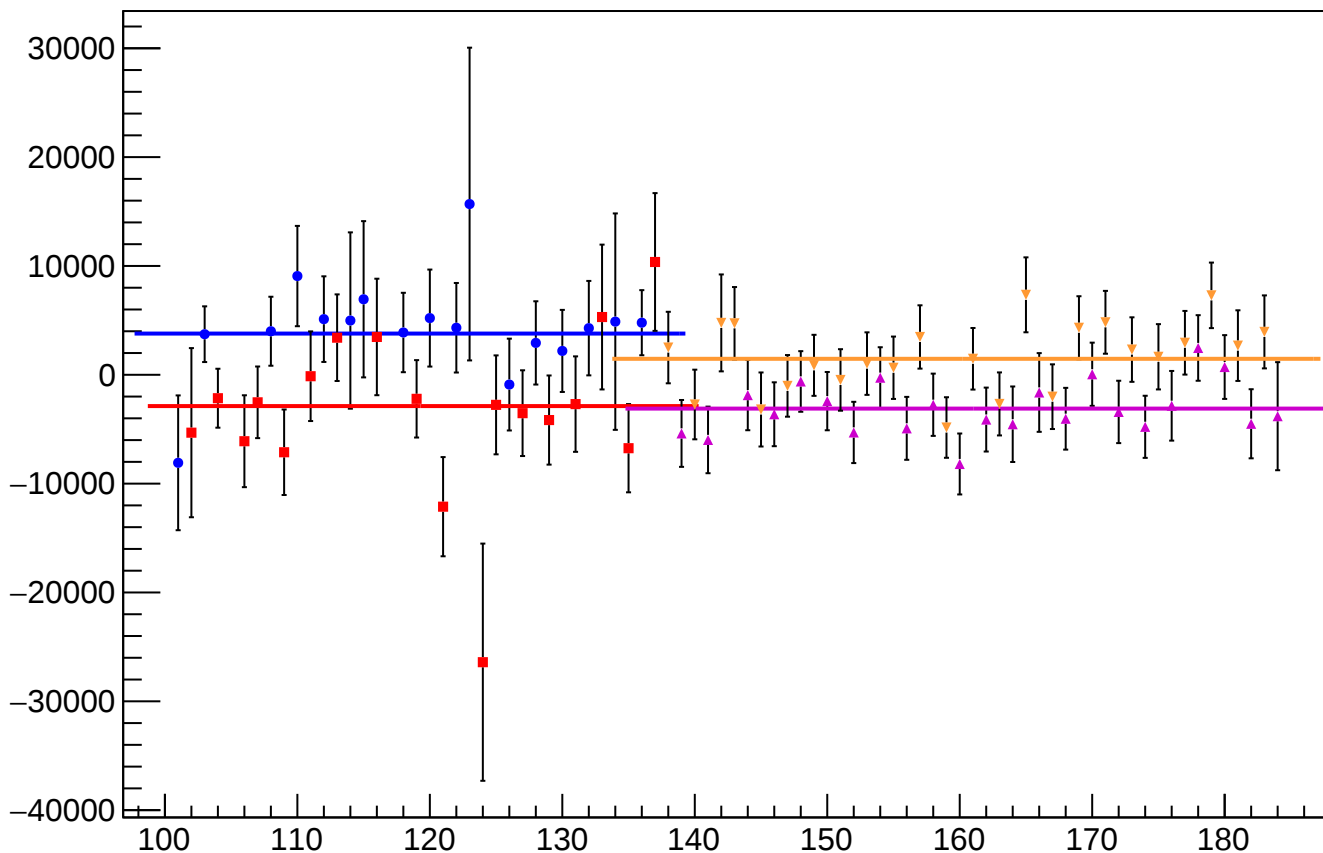
Left In: 2904.499+/-0.490  $\chi^2/\text{NDF}$ : 30423.1/22

+ sign 2916.585+/-0.416  $\chi^2/\text{NDF}$ : 699390.9/40

All: 2909.828+/-0.294  $\chi^2/\text{NDF}$ : 813913.8/81

- sign 2903.081+/-0.416  $\chi^2/\text{NDF}$ : 113996.1/40

# dit\_asym\_atr2\_mean vs Slug



Right In: 3787.840 $\pm$ 1008.120  $\chi^2$ /NDF: 7.7/16

Left Out: 1468.483 $\pm$ 619.948  $\chi^2$ /NDF:25.7/23

Right Out: -2874.691 $\pm$ 1004.077  $\chi^2$ /NDF: 22.0/17

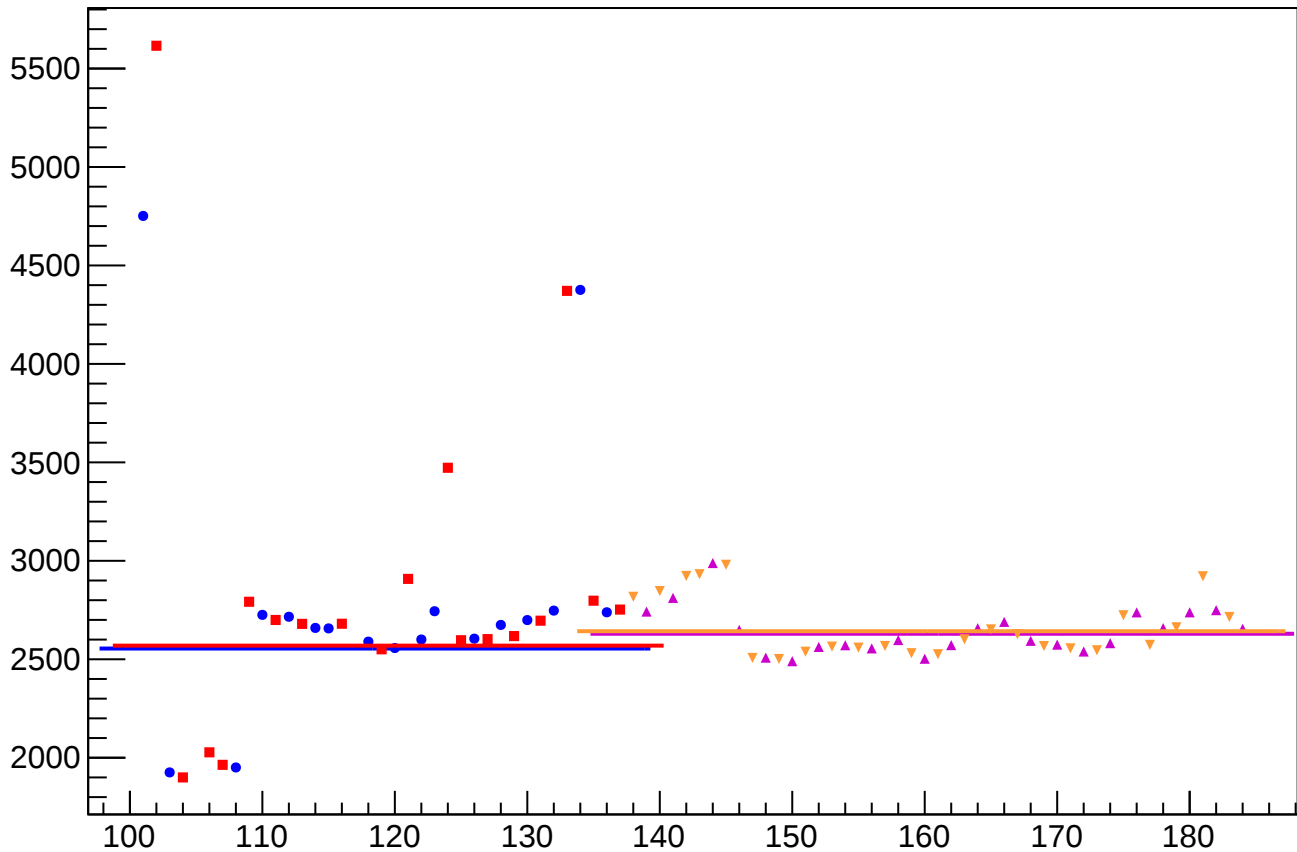
Left In: -3105.866 $\pm$ 626.946  $\chi^2$ /NDF:15.3/22

+ sign 2104.915 $\pm$ 528.085  $\chi^2$ /NDF: 37.2/40

All: -450.052 $\pm$ 374.717  $\chi^2$ /NDF: 121.7/81

- sign -3041.018 $\pm$ 531.793  $\chi^2$ /NDF: 37.3/40

# dit\_asym\_atr2\_rms vs Slug



Right In: 2554.537 $\pm$ 0.713  $\chi^2$ /NDF: 536626.0/16

Left Out: 2642.476 $\pm$ 0.438  $\chi^2$ /NDF:104172.8/23

Right Out: 2569.256 $\pm$ 0.710  $\chi^2$ /NDF: 723332.1/17

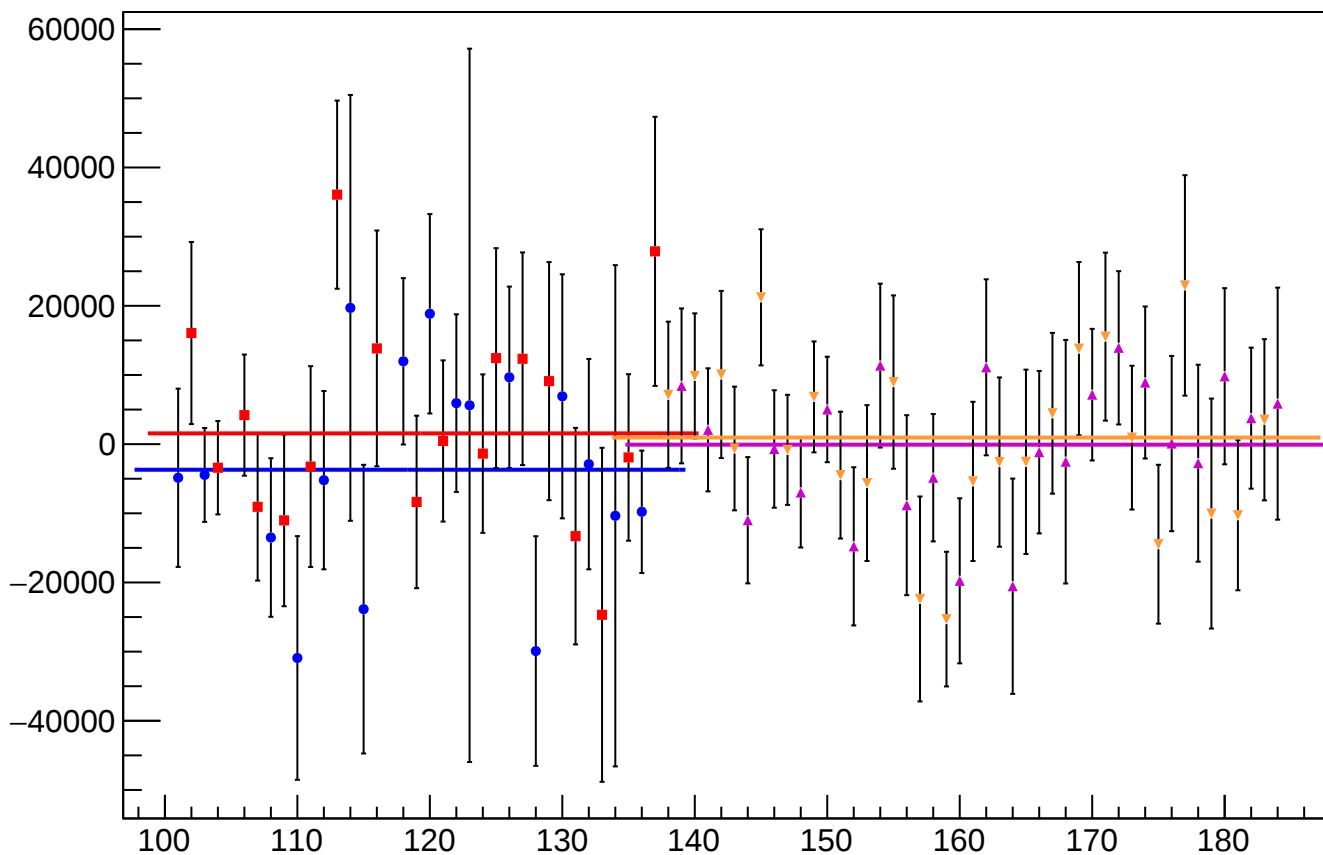
Left In: 2629.589 $\pm$ 0.443  $\chi^2$ /NDF:64727.7/22

+ sign 2618.345 $\pm$ 0.373  $\chi^2$ /NDF: 651841.3/40

All: 2615.520 $\pm$ 0.265  $\chi^2$ /NDF: 1445214.9/83

- sign 2612.655 $\pm$ 0.376  $\chi^2$ /NDF: 793258.2/40

# asym\_atr2\_correction\_mean vs Slug



Right In:  $-3699.522 \pm 3217.843$   $\chi^2/\text{NDF}$ : 13.8/16

Left Out:  $954.333 \pm 2213.483$   $\chi^2/\text{NDF}$ : 25.9/23

Right Out:  $1555.707 \pm 2911.769$   $\chi^2/\text{NDF}$ : 16.8/17

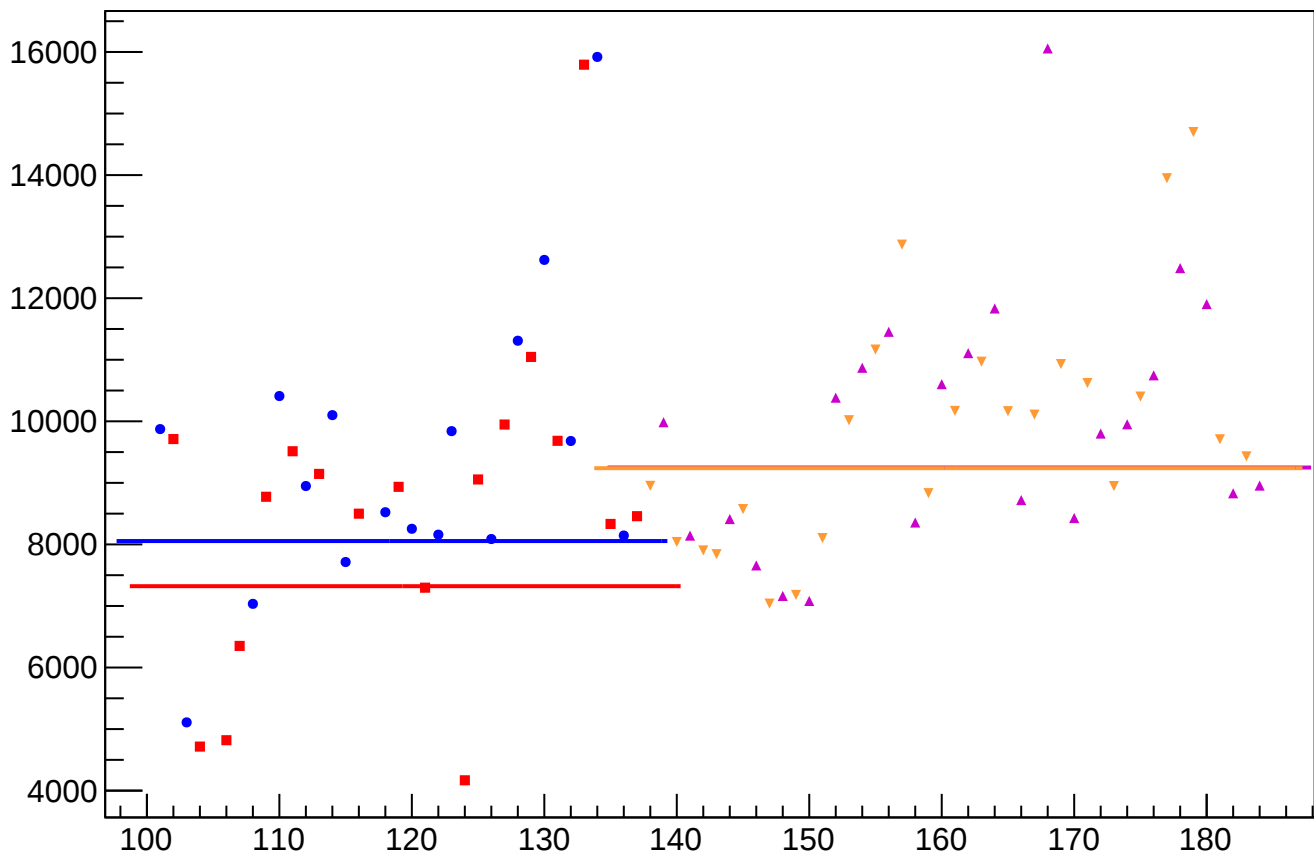
Left In:  $-74.778 \pm 2249.033$   $\chi^2/\text{NDF}$ : 15.6/22

+ sign  $-540.459 \pm 1823.681$   $\chi^2/\text{NDF}$ : 41.1/40

All:  $10.064 \pm 1273.781$   $\chi^2/\text{NDF}$ : 73.9/81

- sign  $534.479 \pm 1779.913$   $\chi^2/\text{NDF}$ : 32.6/40

# asym\_atr2\_correction\_rms vs Slug



Right In: 8054.772 $\pm$ 2.275  $\chi^2$ /NDF: 820763.4/16

Left Out: 9238.342 $\pm$ 1.565  $\chi^2$ /NDF: 1168174.5/23

Right Out: 7321.428 $\pm$ 2.059  $\chi^2$ /NDF: 1335956.4/17

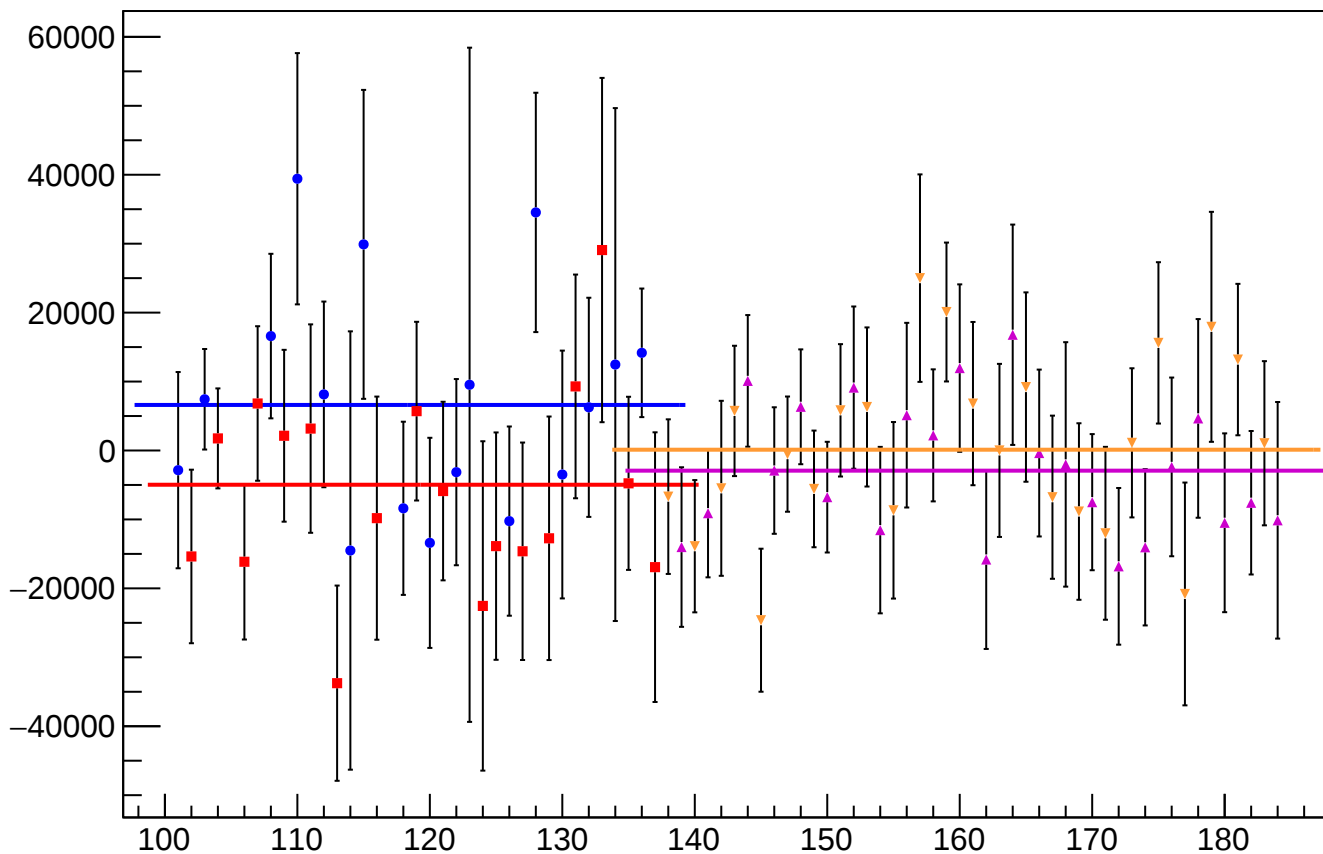
Left In: 9248.938 $\pm$ 1.590  $\chi^2$ /NDF: 1235940.4/22

+ sign 8858.186 $\pm$ 1.290  $\chi^2$ /NDF: 2172605.8/40

All: 8689.438 $\pm$ 0.901  $\chi^2$ /NDF: 5326867.1/81

- sign 8528.693 $\pm$ 1.259  $\chi^2$ /NDF: 3120825.0/40

# asym\_atr2\_mean vs Slug



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: 113.199+/-2297.089  $\chi^2/\text{NDF}$ : 25.5/23

Right Out: -4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

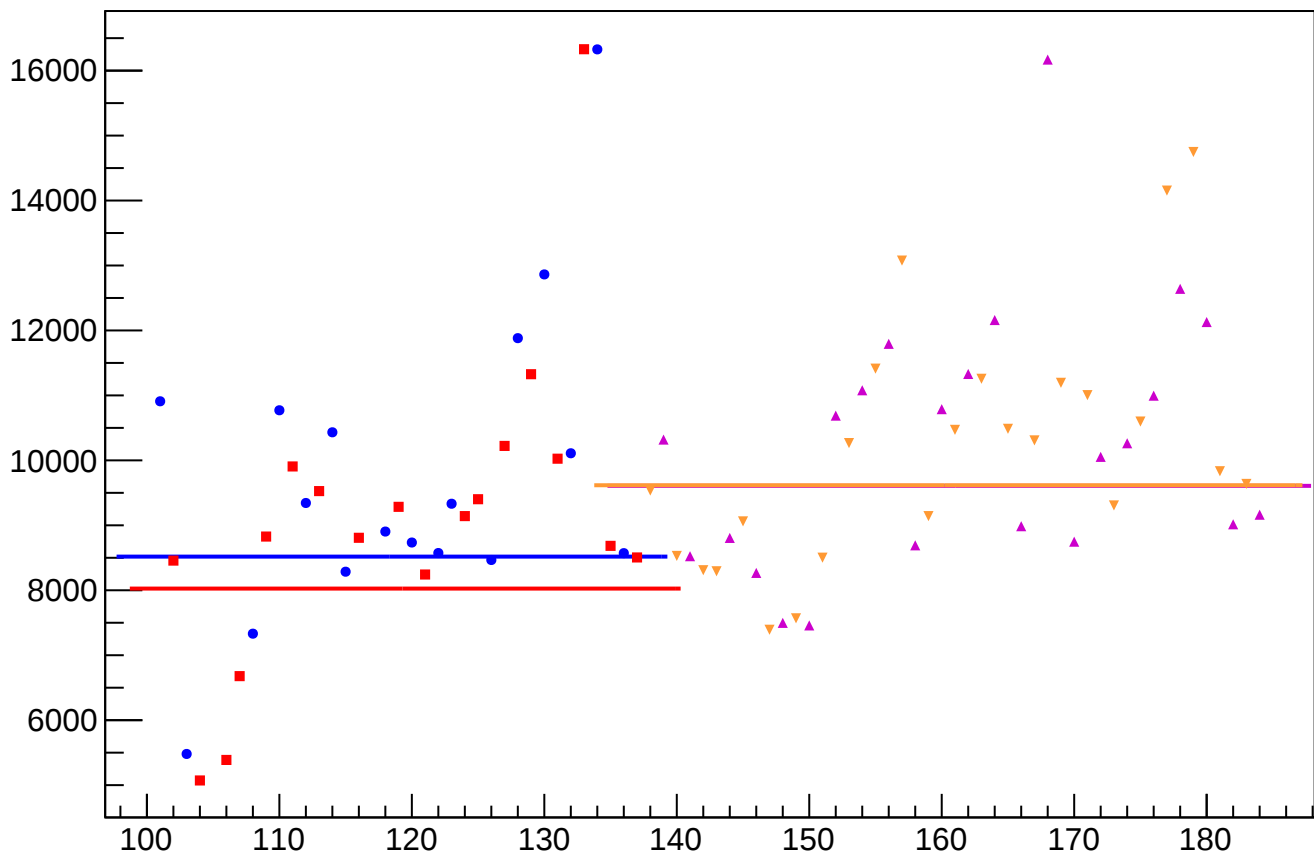
Left In: -2925.533+/-2330.587  $\chi^2/\text{NDF}$ : 14.6/22

+ sign 2151.870+/-1902.670  $\chi^2/\text{NDF}$ : 42.7/40

All: -780.135+/-1336.997  $\chi^2/\text{NDF}$ : 75.8/81

- sign -3640.089+/-1879.147  $\chi^2/\text{NDF}$ : 28.4/40

# asym\_atr2\_rms vs Slug



Right In: 8518.273+/-2.401  $\chi^2$ /NDF: 771995.0/16

Left Out: 9616.809+/-1.624  $\chi^2$ /NDF:1011200.0/23

Right Out: 8026.045+/-2.246  $\chi^2$ /NDF: 942657.8/17

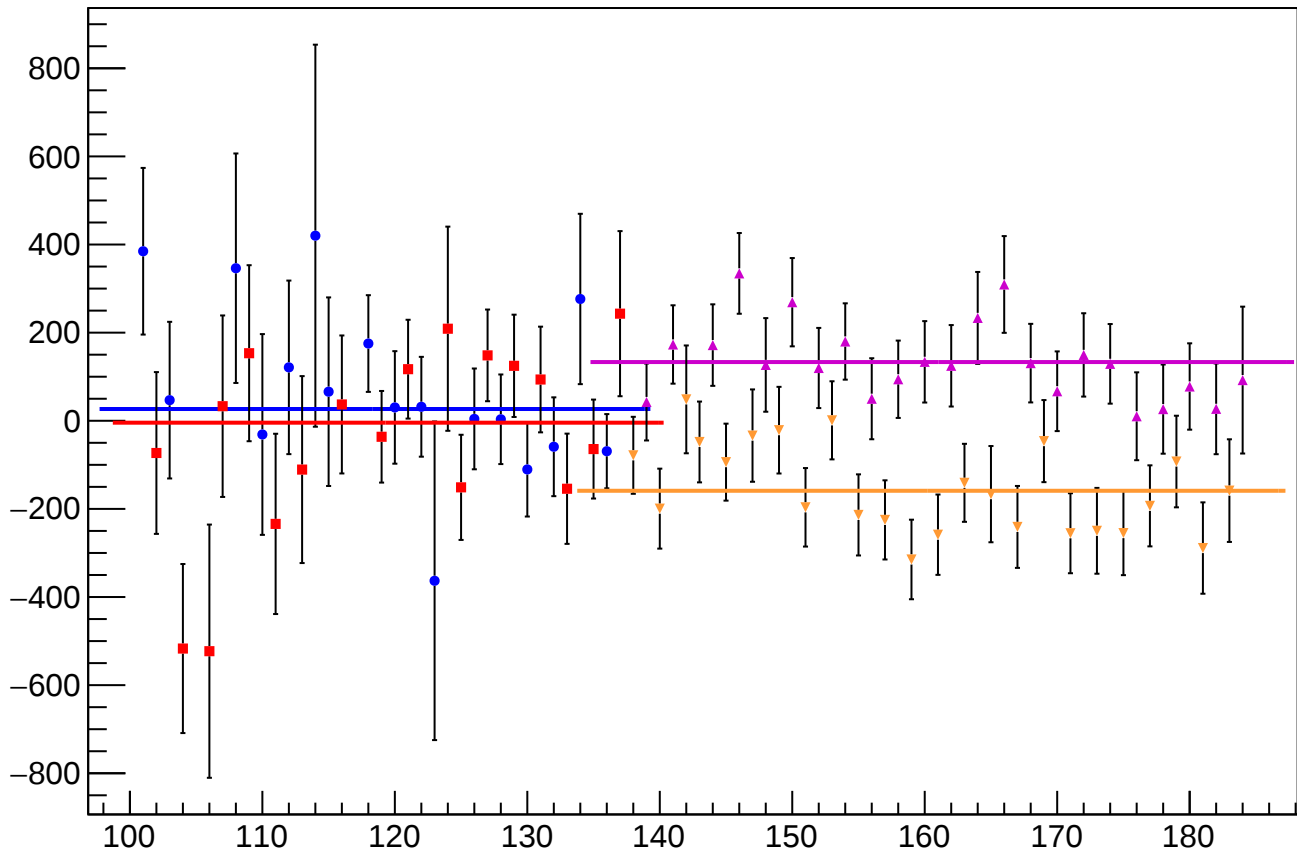
Left In: 9607.553+/-1.648  $\chi^2$ /NDF:1085465.7/22

+ sign 9271.951+/-1.345  $\chi^2$ /NDF: 1926786.7/40

All: 9161.711+/-0.945  $\chi^2$ /NDF: 4290418.2/83

- sign 9054.183+/-1.329  $\chi^2$ /NDF: 2350368.8/40

# dit\_asym\_sam1\_mean vs Slug



Right In: 26.713 $\pm$ 33.626  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: -158.861 $\pm$ 19.395  $\chi^2/\text{NDF}$ :25.2/23

Right Out: -4.338 $\pm$ 33.842  $\chi^2/\text{NDF}$ : 23.9/17

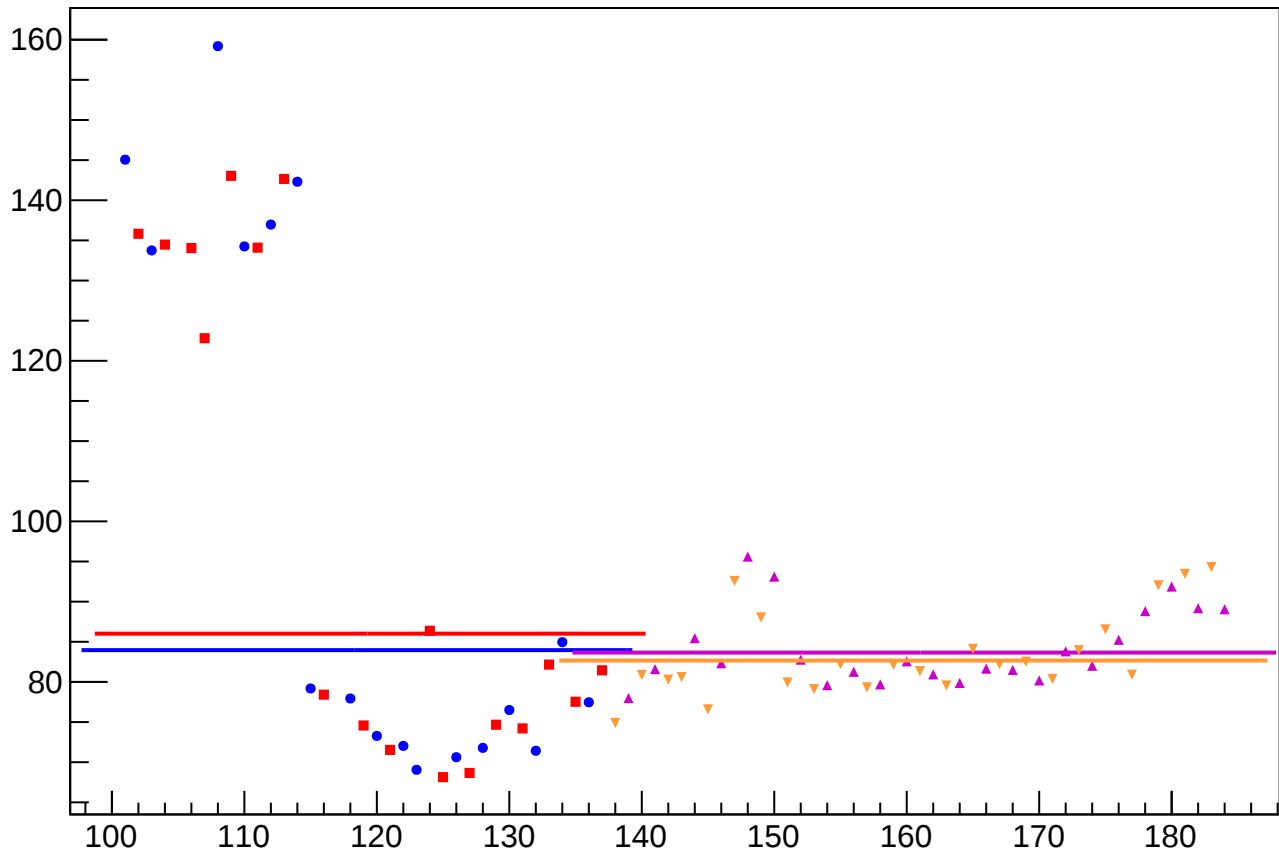
Left In: 133.271 $\pm$ 19.968  $\chi^2/\text{NDF}$ :17.6/22

+ sign -112.534 $\pm$ 16.801  $\chi^2/\text{NDF}$ : 62.6/40

All: -9.854 $\pm$ 12.018  $\chi^2/\text{NDF}$ : 192.9/81

- sign 97.734 $\pm$ 17.198  $\chi^2/\text{NDF}$ : 53.8/40

# dit\_asym\_sam1\_rms vs Slug



Right In: 83.961 $\pm$ 0.024  $\chi^2$ /NDF: 960253.6/16

Left Out: 82.662 $\pm$ 0.014  $\chi^2$ /NDF:126742.6/23

Right Out: 86.012 $\pm$ 0.024  $\chi^2$ /NDF: 1026404.0/17

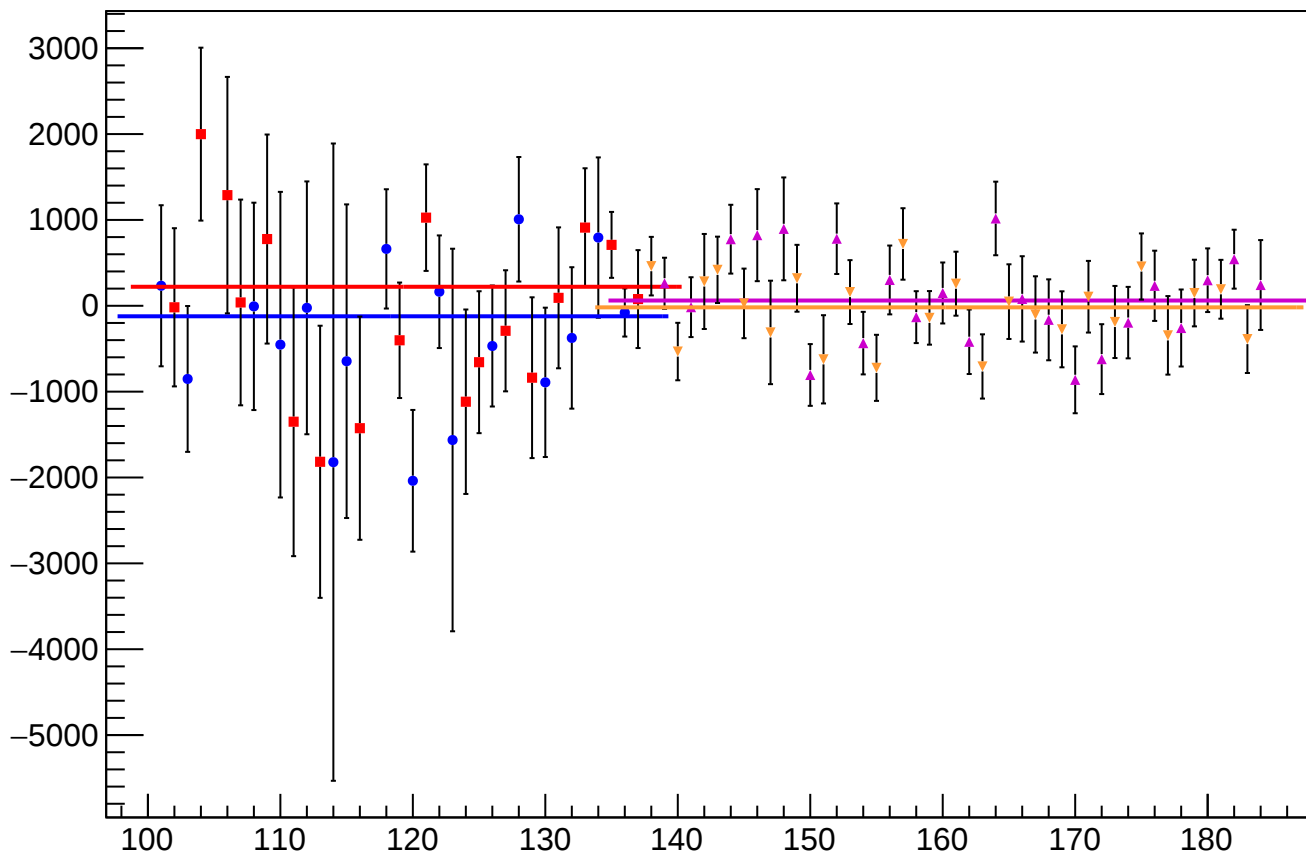
Left In: 83.657 $\pm$ 0.014  $\chi^2$ /NDF:101606.4/22

+ sign 82.986 $\pm$ 0.012  $\chi^2$ /NDF: 1089233.9/40

All: 83.611 $\pm$ 0.008  $\chi^2$ /NDF: 2230087.6/81

- sign 84.265 $\pm$ 0.012  $\chi^2$ /NDF: 1135195.8/40

# asym\_sam1\_correction\_mean vs Slug



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}$ : 13.0/16

Left Out:  $-18.232 \pm 81.371$   $\chi^2/\text{NDF}$ : 23.2/23

Right Out:  $221.525 \pm 185.098$   $\chi^2/\text{NDF}$ : 18.0/17

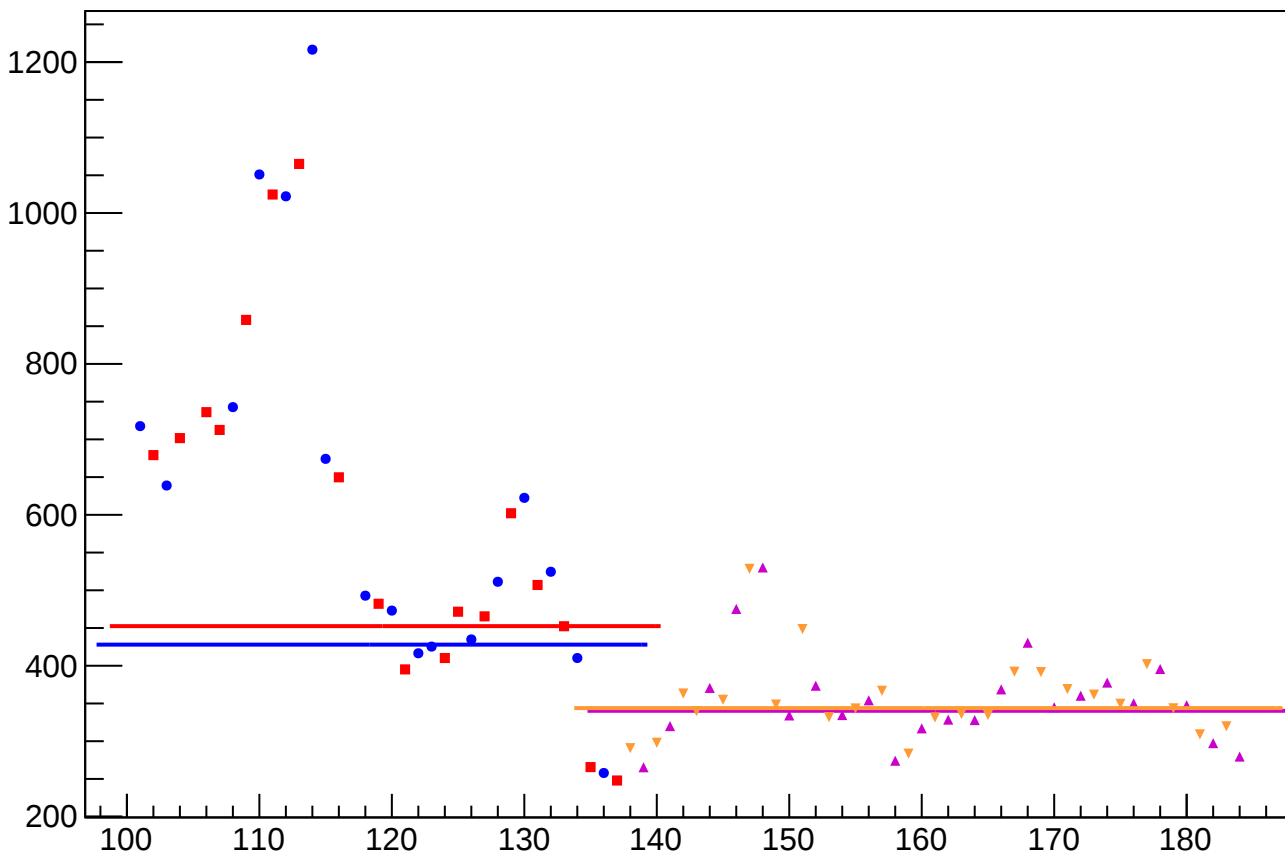
Left In:  $61.389 \pm 82.151$   $\chi^2/\text{NDF}$ : 38.0/22

+ sign  $-35.977 \pm 74.118$   $\chi^2/\text{NDF}$ : 36.6/40

All:  $25.078 \pm 52.749$   $\chi^2/\text{NDF}$ : 94.6/81

- sign  $87.742 \pm 75.088$   $\chi^2/\text{NDF}$ : 56.7/40

# asym\_sam1\_correction\_rms vs Slug



Right In: 427.986 $\pm$ 0.127  $\chi^2$ /NDF: 2062245.9/16

Left Out: 343.868 $\pm$ 0.058  $\chi^2$ /NDF:566856.8/23

Right Out: 452.508 $\pm$ 0.131  $\chi^2$ /NDF: 2073032.9/17

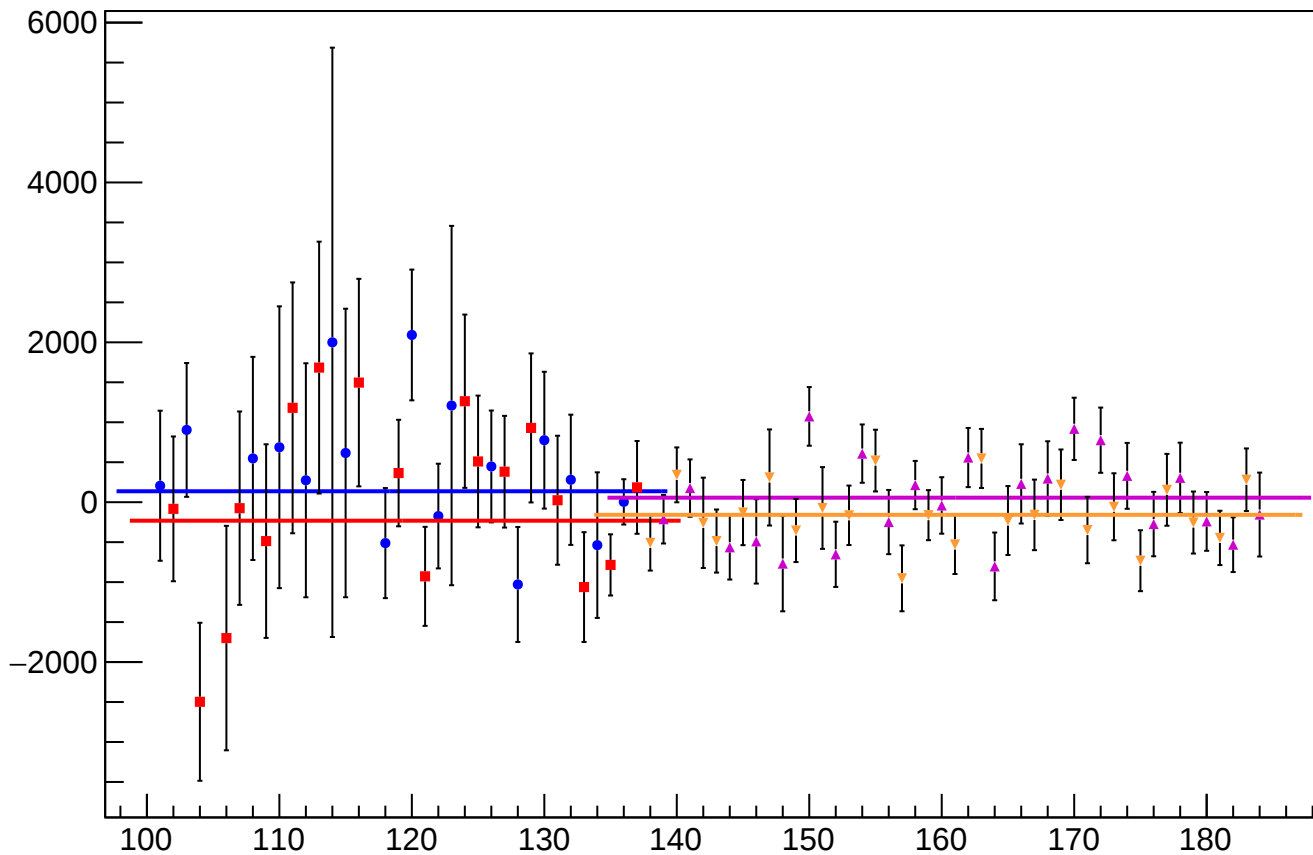
Left In: 340.311 $\pm$ 0.058  $\chi^2$ /NDF:789089.8/22

+ sign 358.196 $\pm$ 0.052  $\chi^2$ /NDF: 2993149.8/40

All: 358.482 $\pm$ 0.037  $\chi^2$ /NDF: 6469227.5/81

- sign 358.775 $\pm$ 0.053  $\chi^2$ /NDF: 3476017.5/40

# asym\_sam1\_mean vs Slug



Right In:  $136.810 \pm 179.609$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $-158.026 \pm 81.417$   $\chi^2/\text{NDF}$ : 22.0/23

Right Out:  $-231.586 \pm 184.578$   $\chi^2/\text{NDF}$ : 21.8/17

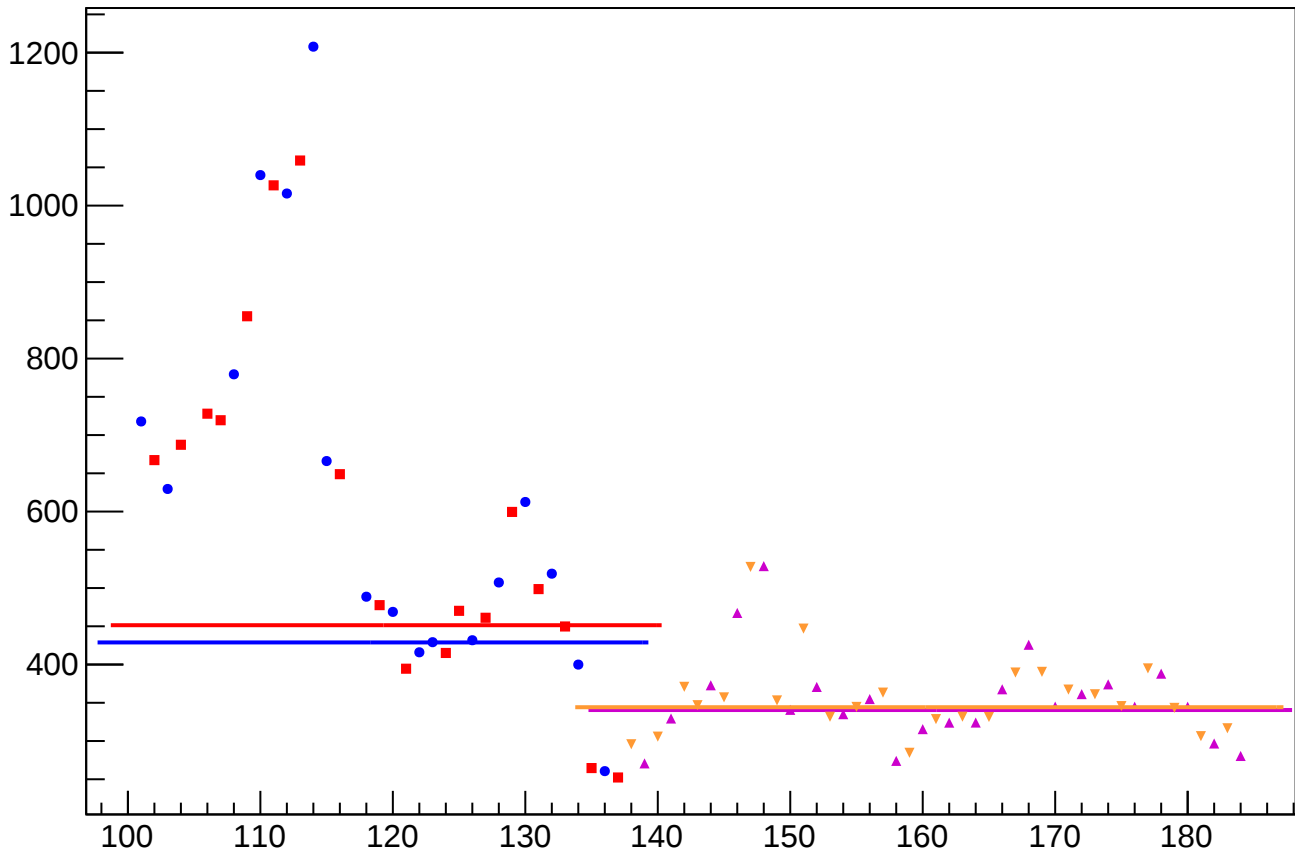
Left In:  $56.402 \pm 82.155$   $\chi^2/\text{NDF}$ : 39.7/22

+ sign  $-107.769 \pm 74.154$   $\chi^2/\text{NDF}$ : 36.9/40

All:  $-50.198 \pm 52.751$   $\chi^2/\text{NDF}$ : 101.6/81

- sign  $8.783 \pm 75.056$   $\chi^2/\text{NDF}$ : 63.5/40

# asym\_sam1\_rms vs Slug



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 344.192+/-0.058  $\chi^2/\text{NDF}$ : 537957.0/23

Right Out: 451.411+/-0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

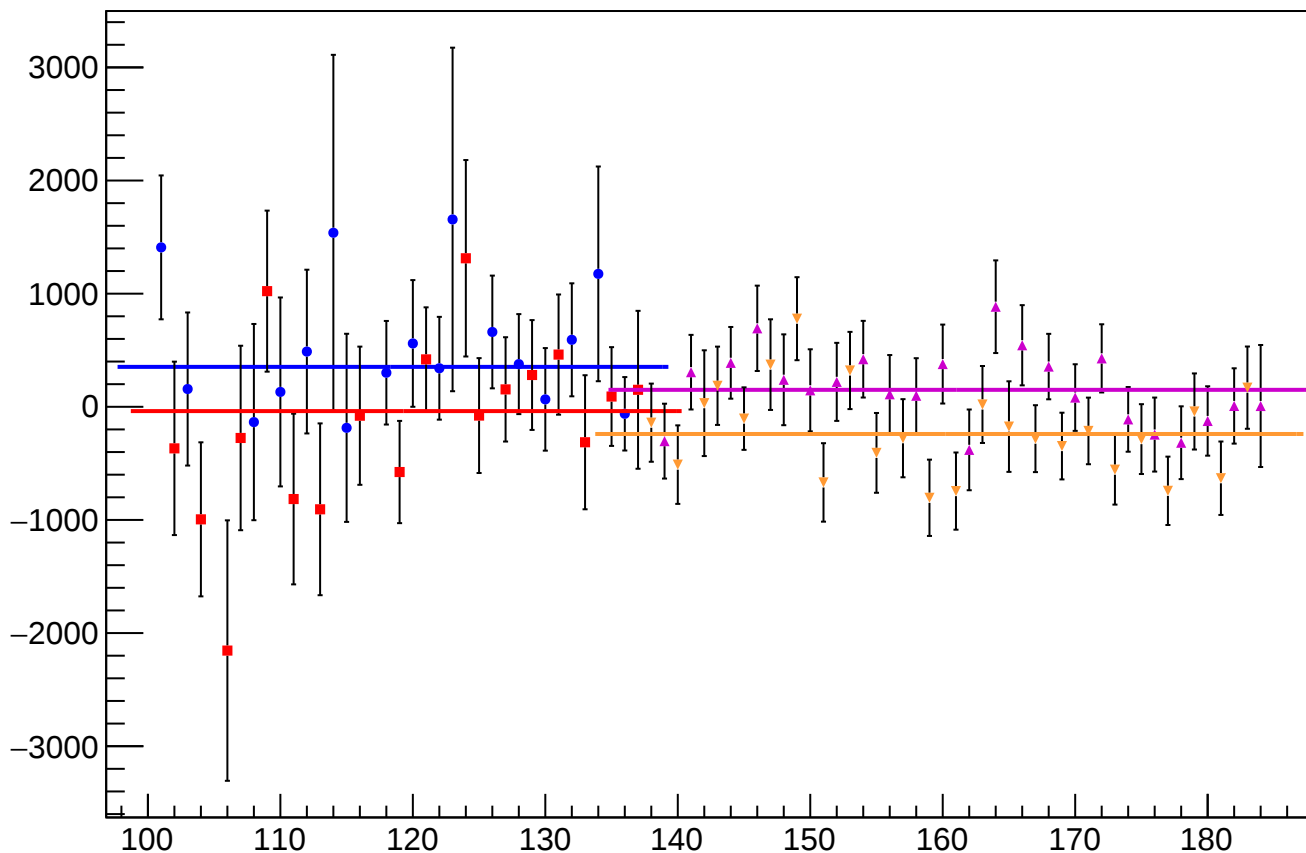
Left In: 340.519+/-0.058  $\chi^2/\text{NDF}$ : 737049.6/22

+ sign 358.629+/-0.052  $\chi^2/\text{NDF}$ : 2917485.2/40

All: 358.741+/-0.037  $\chi^2/\text{NDF}$ : 6287803.3/81

- sign 358.856+/-0.053  $\chi^2/\text{NDF}$ : 3370308.9/40

# dit\_asym\_sam2\_mean vs Slug



Right In:  $352.927 \pm 137.298$   $\chi^2/\text{NDF}$ : 8.5/16

Left Out:  $-240.307 \pm 68.313$   $\chi^2/\text{NDF}$ : 30.0/23

Right Out:  $-37.982 \pm 139.023$   $\chi^2/\text{NDF}$ : 16.9/17

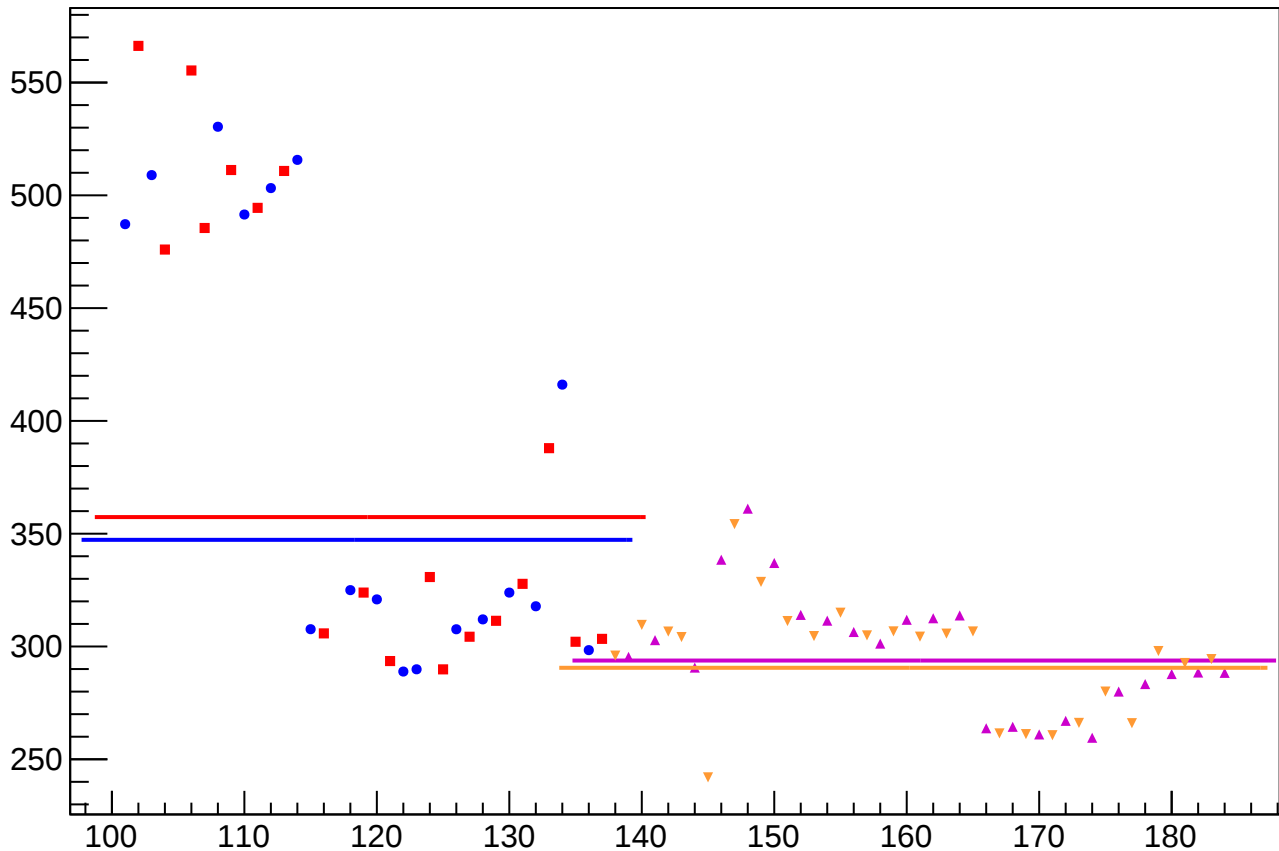
Left In:  $149.974 \pm 70.280$   $\chi^2/\text{NDF}$ : 19.5/22

+ sign  $-122.589 \pm 61.161$   $\chi^2/\text{NDF}$ : 53.5/40

All:  $-8.386 \pm 43.788$   $\chi^2/\text{NDF}$ : 98.5/81

- sign  $111.718 \pm 62.721$   $\chi^2/\text{NDF}$ : 37.9/40

# dit\_asym\_sam2\_rms vs Slug



Right In: 347.280 $\pm$ 0.097  $\chi^2$ /NDF: 618906.8/16

Left Out: 290.553 $\pm$ 0.048  $\chi^2$ /NDF: 273711.1/23

Right Out: 357.365 $\pm$ 0.098  $\chi^2$ /NDF: 759938.5/17

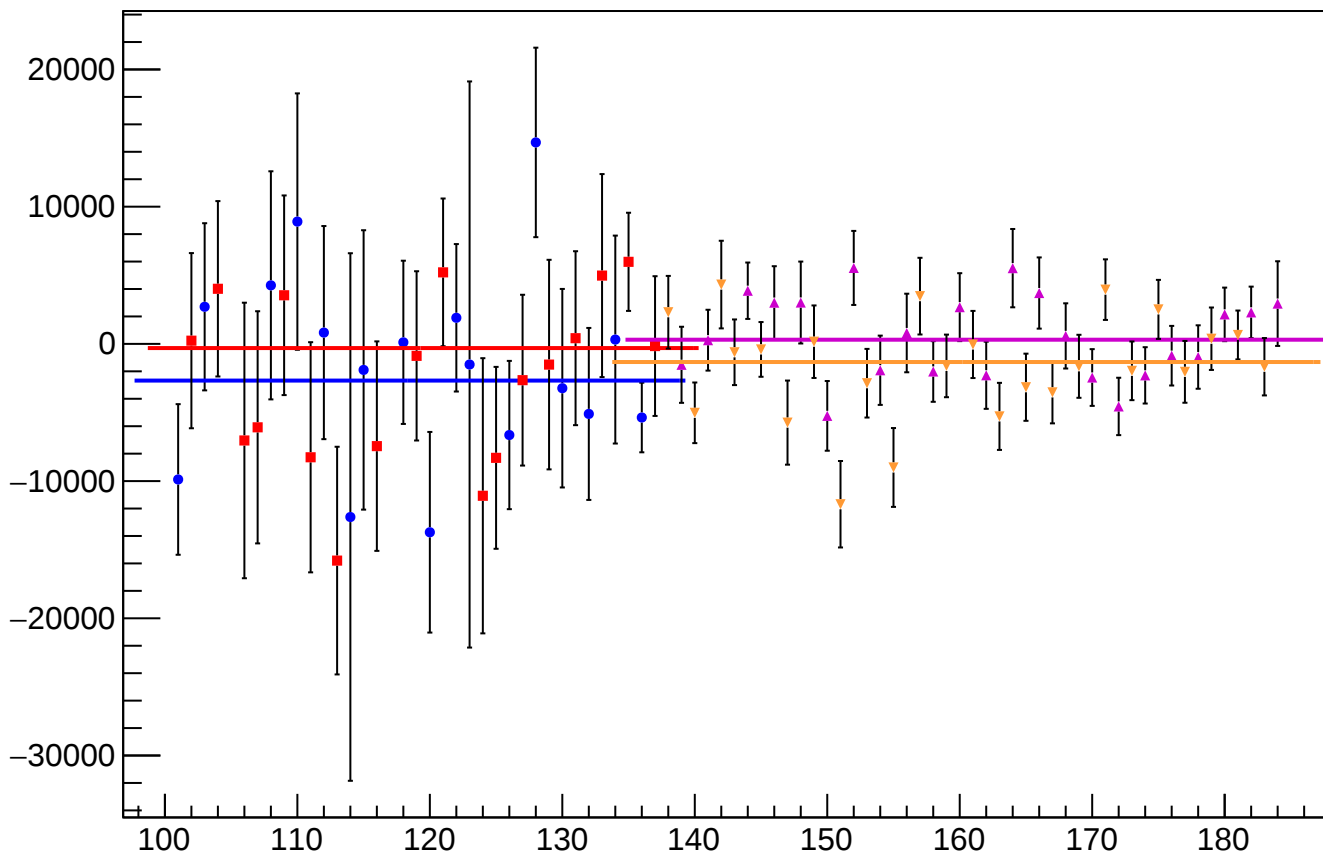
Left In: 293.772 $\pm$ 0.050  $\chi^2$ /NDF: 257410.6/22

+ sign 301.809 $\pm$ 0.043  $\chi^2$ /NDF: 1166284.0/40

All: 304.201 $\pm$ 0.031  $\chi^2$ /NDF: 2523207.1/81

- sign 306.715 $\pm$ 0.044  $\chi^2$ /NDF: 1350650.1/40

# asym\_sam2\_correction\_mean vs Slug



Right In:  $-2674.025 \pm 1456.188$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-1321.458 \pm 483.069$   $\chi^2/\text{NDF}$ : 47.2/23

Right Out:  $-304.817 \pm 1517.834$   $\chi^2/\text{NDF}$ : 14.4/17

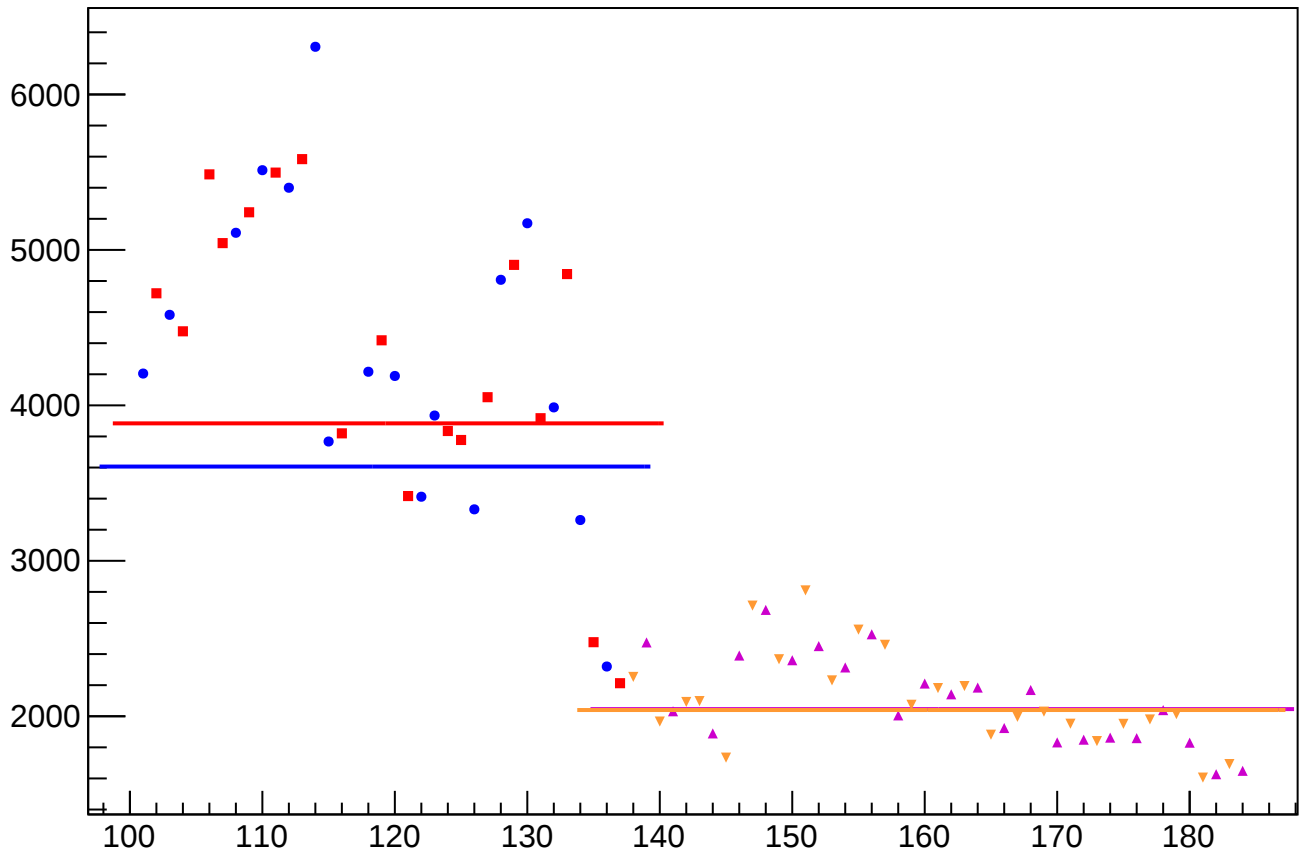
Left In:  $304.624 \pm 492.139$   $\chi^2/\text{NDF}$ : 35.0/22

+ sign  $-1455.549 \pm 458.499$   $\chi^2/\text{NDF}$ : 64.7/40

All:  $-622.169 \pm 327.565$   $\chi^2/\text{NDF}$ : 120.9/81

- sign  $246.649 \pm 468.146$   $\chi^2/\text{NDF}$ : 49.5/40

# asym\_sam2\_correction\_rms vs Slug



Right In: 3606.359+/-1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2040.115+/-0.342  $\chi^2/\text{NDF}$ : 656113.3/23

Right Out: 3884.203+/-1.073  $\chi^2/\text{NDF}$ : 994574.5/17

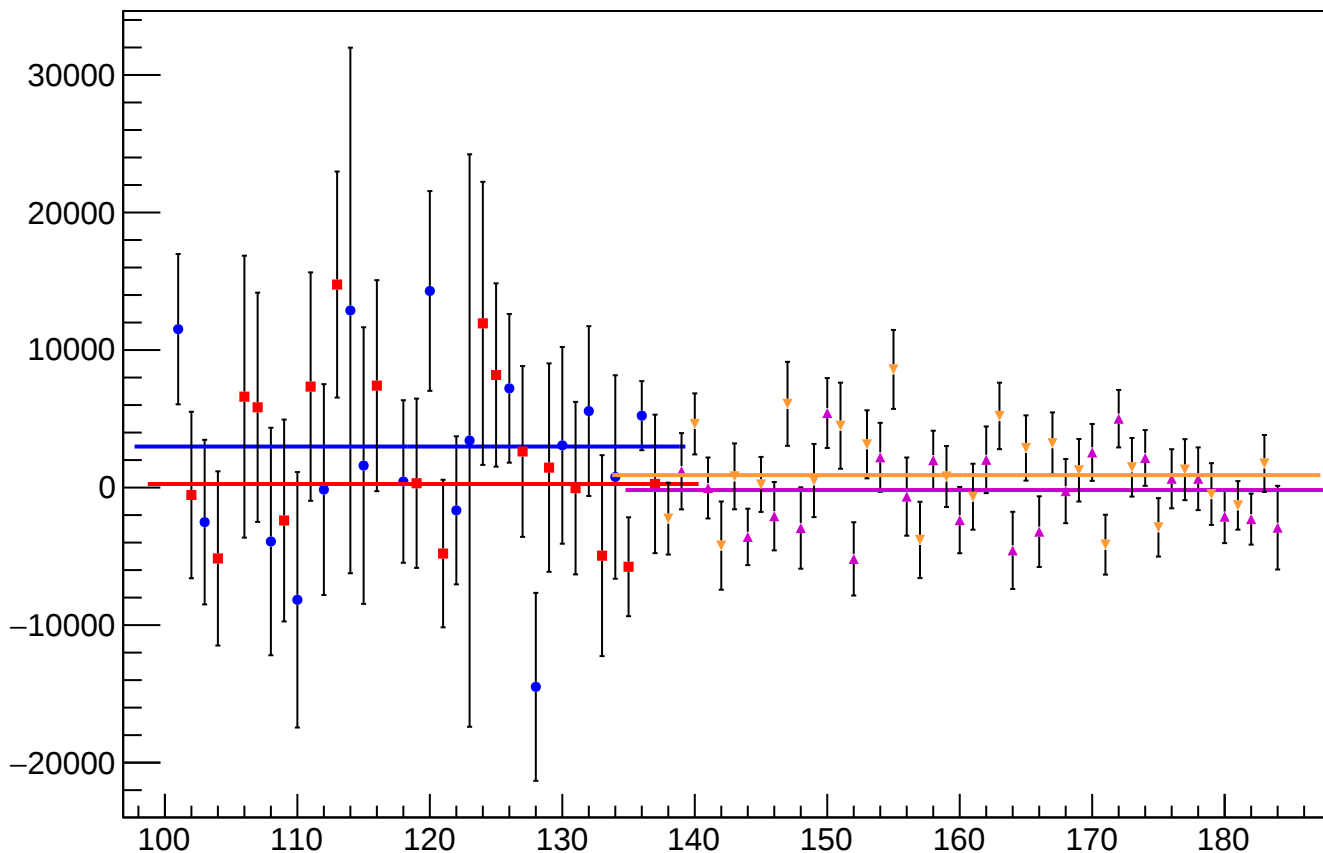
Left In: 2046.135+/-0.348  $\chi^2/\text{NDF}$ : 593551.6/22

+ sign 2195.389+/-0.324  $\chi^2/\text{NDF}$ : 3832989.6/40

All: 2207.923+/-0.232  $\chi^2/\text{NDF}$ : 8078109.4/83

- sign 2220.989+/-0.331  $\chi^2/\text{NDF}$ : 4242067.3/40

# asym\_sam2\_mean vs Slug



Right In: 2983.609 $\pm$ 1443.630  $\chi^2$ /NDF: 17.4/16

Left Out: 905.954 $\pm$ 478.643  $\chi^2$ /NDF: 38.2/23

Right Out: 259.721 $\pm$ 1510.344  $\chi^2$ /NDF: 13.5/17

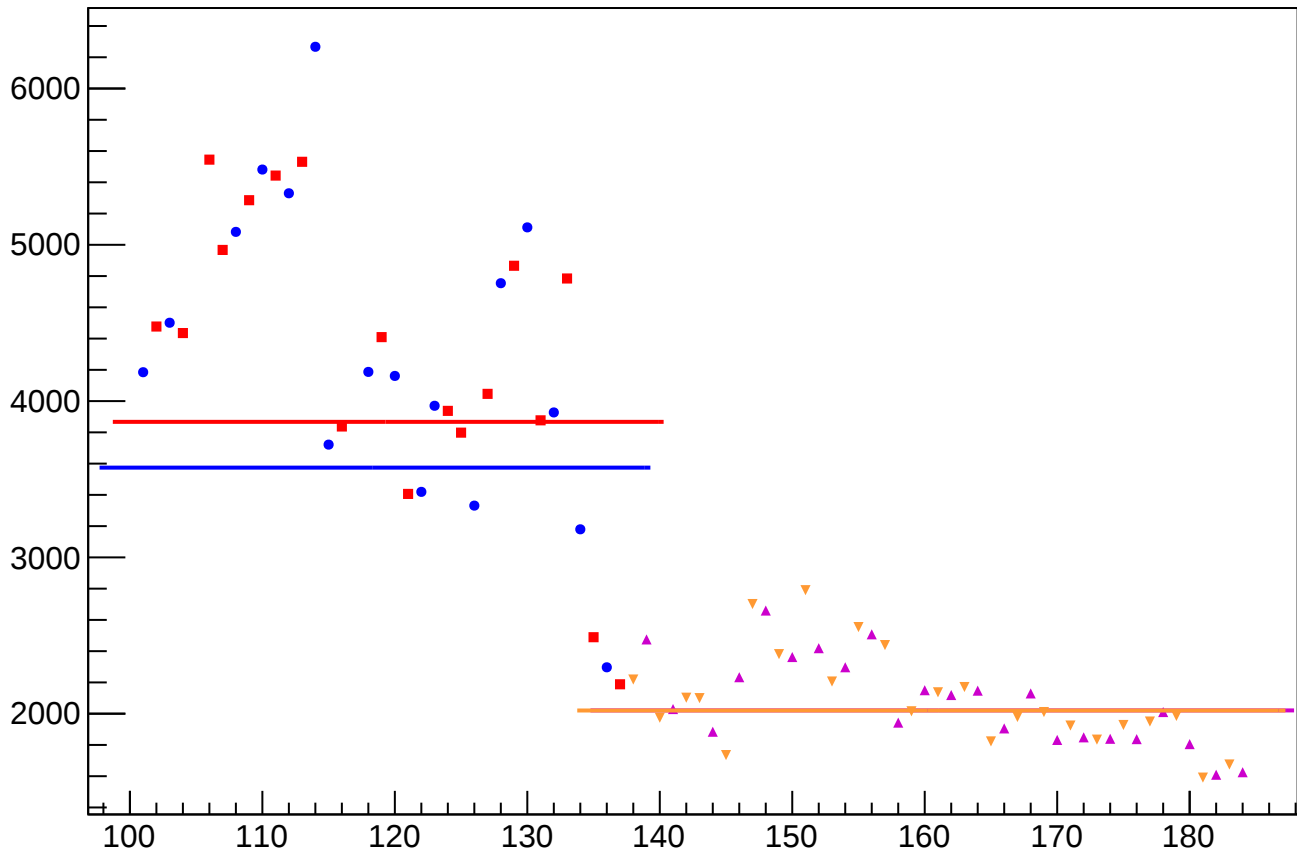
Left In: -180.087 $\pm$ 486.112  $\chi^2$ /NDF: 32.9/22

+ sign 1111.727 $\pm$ 454.322  $\chi^2$ /NDF: 57.5/40

All: 497.932 $\pm$ 324.188  $\chi^2$ /NDF: 107.7/81

- sign -138.804 $\pm$ 462.735  $\chi^2$ /NDF: 46.5/40

# asym\_sam2\_rms vs Slug



Right In:  $3574.362 \pm 1.021$   $\chi^2/\text{NDF}: 1091350.4/16$

Left Out:  $2020.378 \pm 0.338$   $\chi^2/\text{NDF}: 666696.6/23$

Right Out:  $3867.232 \pm 1.068$   $\chi^2/\text{NDF}: 968137.9/17$

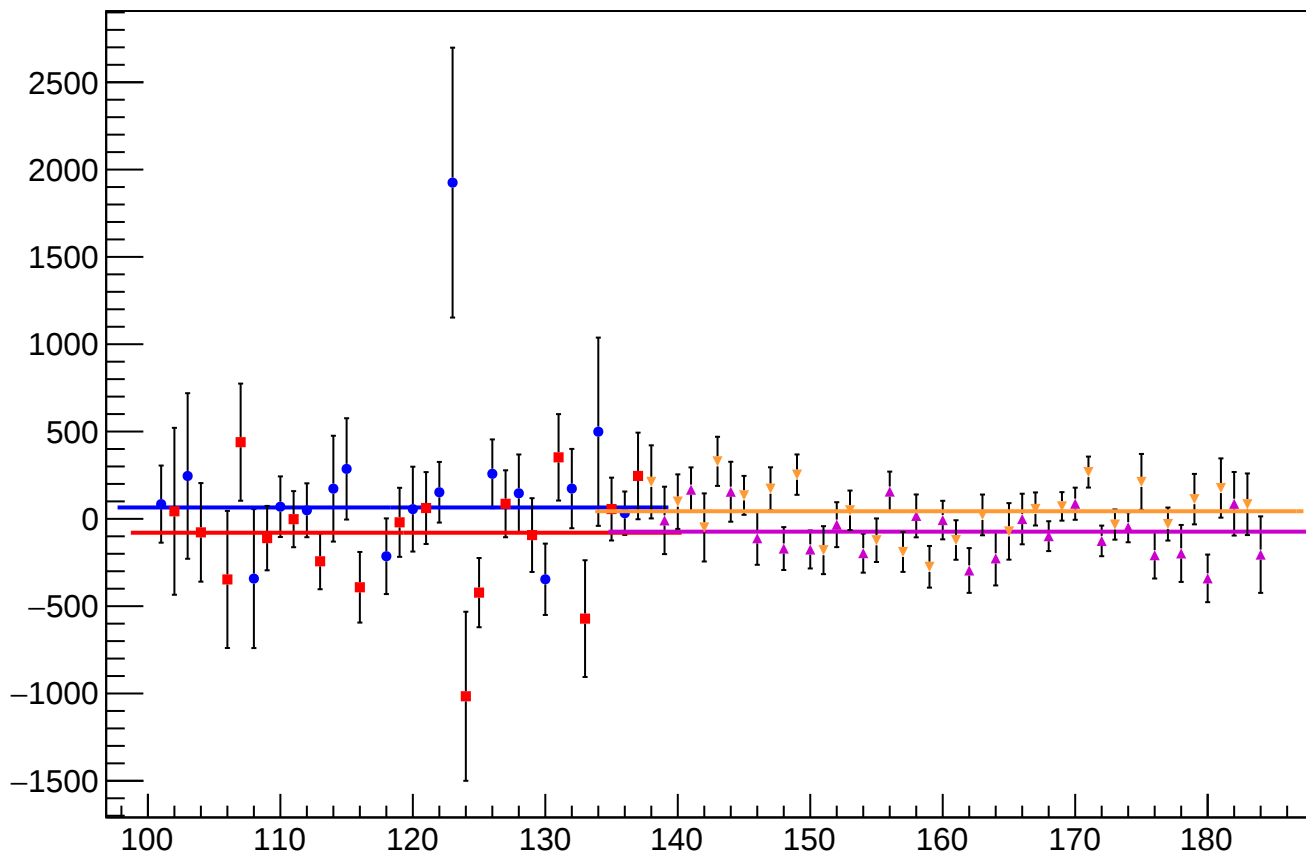
Left In:  $2020.887 \pm 0.344$   $\chi^2/\text{NDF}: 576363.5/22$

+ sign  $2174.287 \pm 0.321$   $\chi^2/\text{NDF}: 3845978.2/40$

All:  $2184.060 \pm 0.229$   $\chi^2/\text{NDF}: 8100657.8/83$

- sign  $2194.198 \pm 0.327$   $\chi^2/\text{NDF}: 4252794.2/40$

# dit\_asym\_sam3\_mean vs Slug



Right In:  $65.225 \pm 52.700$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $43.650 \pm 24.377$   $\chi^2/\text{NDF}$ : 38.4/23

Right Out:  $-79.473 \pm 52.344$   $\chi^2/\text{NDF}$ : 22.2/17

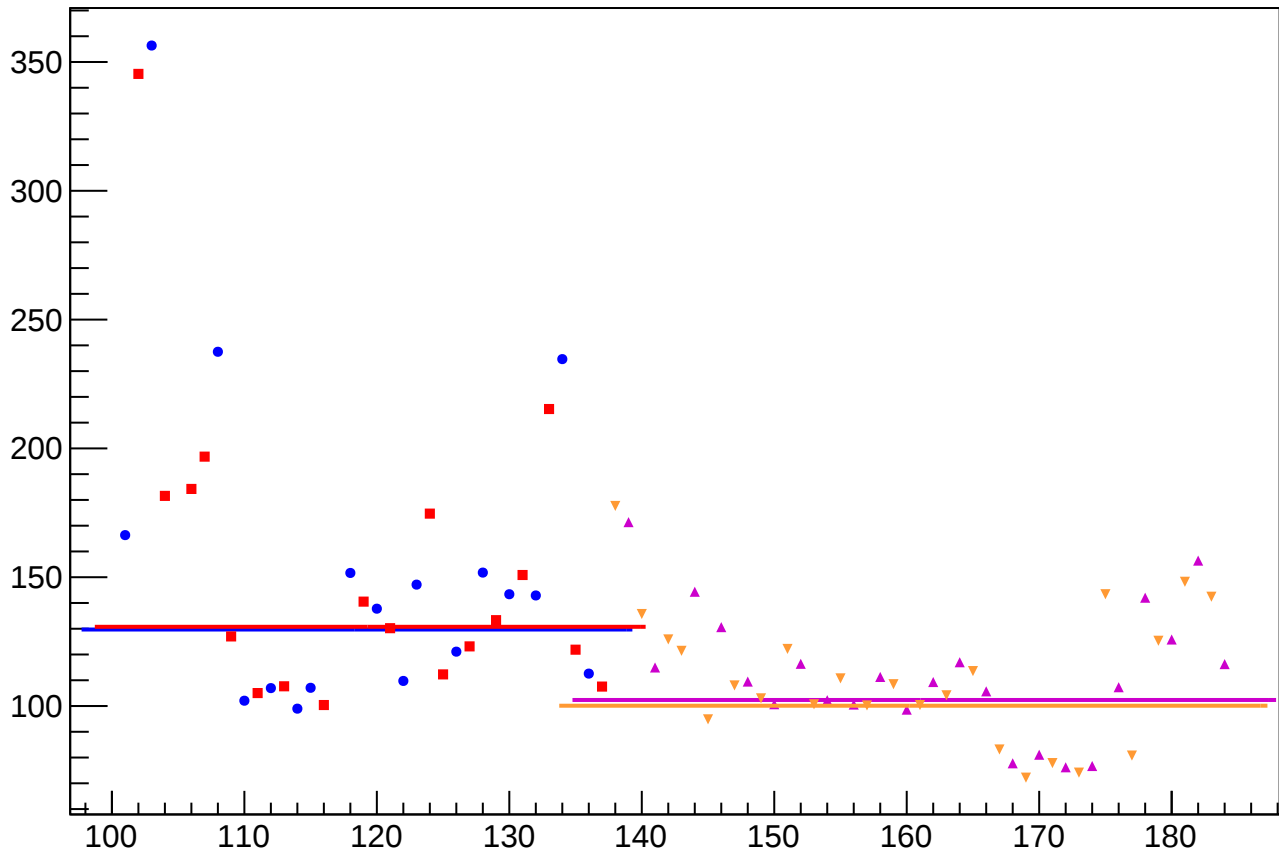
Left In:  $-73.305 \pm 25.388$   $\chi^2/\text{NDF}$ : 27.6/22

+ sign  $47.453 \pm 22.125$   $\chi^2/\text{NDF}$ : 54.3/40

All:  $-11.566 \pm 15.893$   $\chi^2/\text{NDF}$ : 118.7/81

- sign  $-74.480 \pm 22.843$   $\chi^2/\text{NDF}$ : 49.8/40

# dit\_asym\_sam3\_rms vs Slug



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 100.115 $\pm$ 0.017  $\chi^2$ /NDF: 1736767.7/23

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

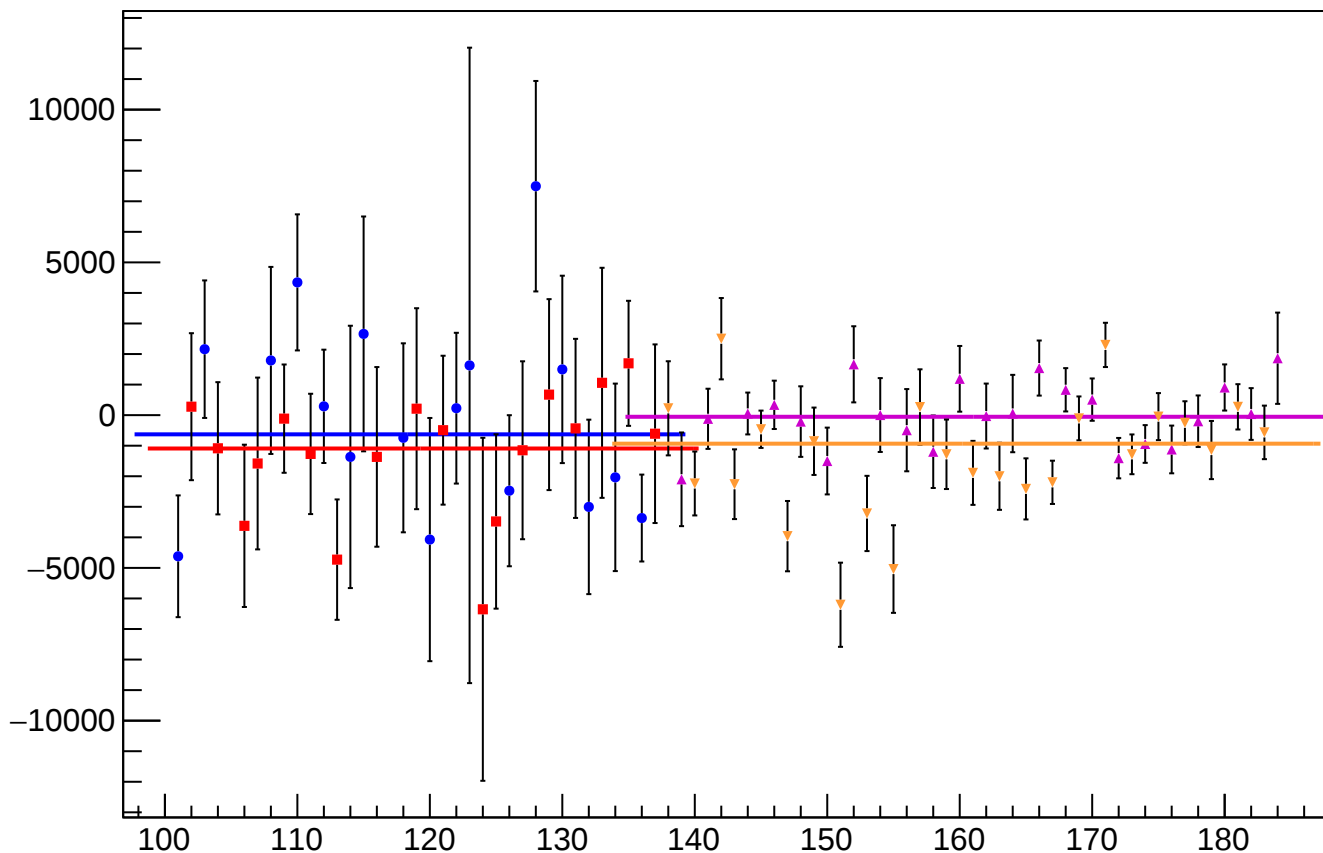
Left In: 102.345 $\pm$ 0.018  $\chi^2$ /NDF: 1527594.6/22

+ sign 105.328 $\pm$ 0.016  $\chi^2$ /NDF: 3245551.4/40

All: 106.503 $\pm$ 0.011  $\chi^2$ /NDF: 6189153.7/81

- sign 107.755 $\pm$ 0.016  $\chi^2$ /NDF: 2931953.8/40

# asym\_sam3\_correction\_mean vs Slug



Right In: -628.175+/-621.486  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: -933.996+/-186.040  $\chi^2/\text{NDF}$ : 78.8/23

Right Out: -1091.945+/-599.483  $\chi^2/\text{NDF}$ : 9.4/17

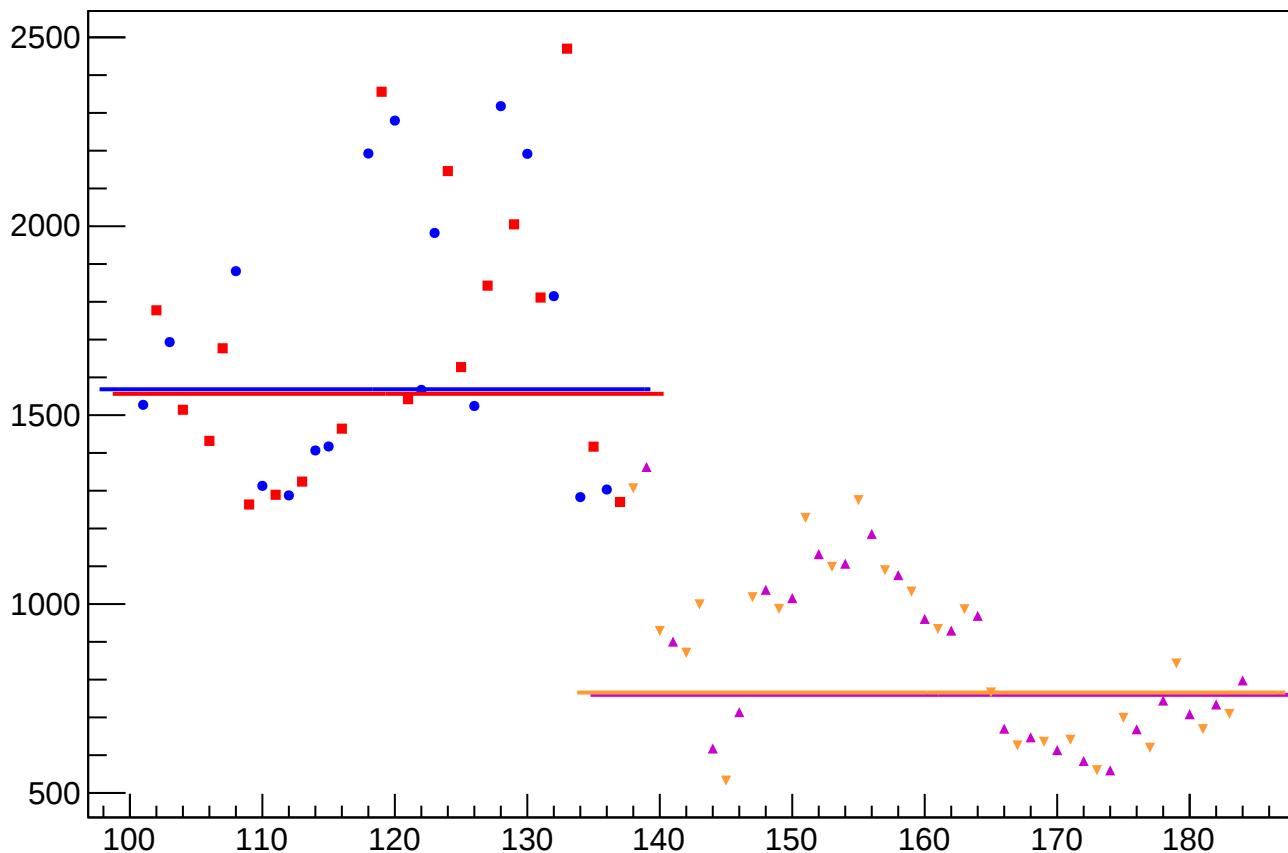
Left In: -53.413+/-187.000  $\chi^2/\text{NDF}$ : 24.9/22

+ sign -908.845+/-178.226  $\chi^2/\text{NDF}$ : 103.3/40

All: -527.798+/-126.128  $\chi^2/\text{NDF}$ : 149.5/81

- sign -145.506+/-178.517  $\chi^2/\text{NDF}$ : 37.0/40

# asym\_sam3\_correction\_rms vs Slug



Right In: 1568.480 $\pm$ 0.439  $\chi^2$ /NDF: 534197.6/16

Left Out: 765.786 $\pm$ 0.132  $\chi^2$ /NDF: 2422489.2/23

Right Out: 1556.423 $\pm$ 0.424  $\chi^2$ /NDF: 510453.6/17

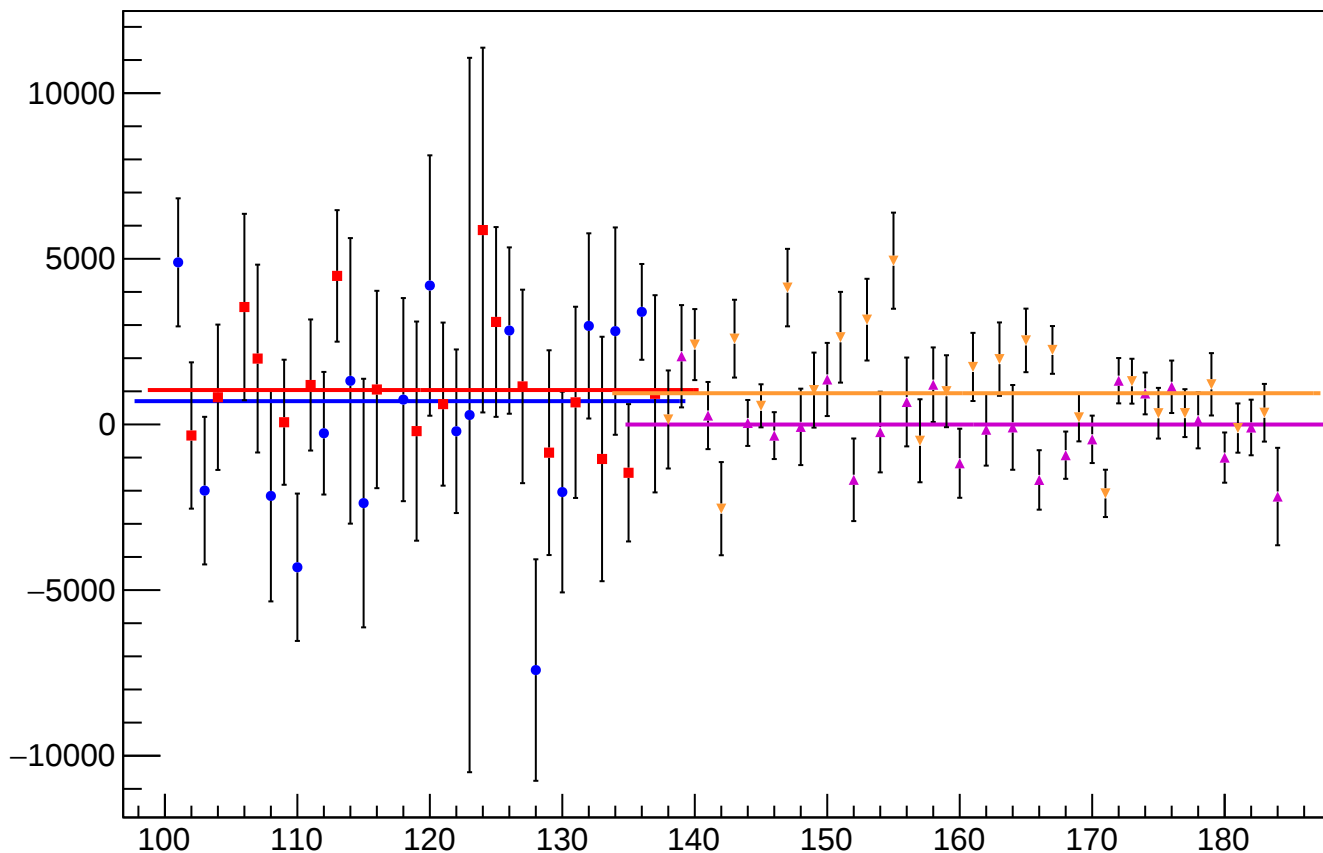
Left In: 759.696 $\pm$ 0.132  $\chi^2$ /NDF: 2080981.0/22

+ sign 831.799 $\pm$ 0.126  $\chi^2$ /NDF: 6018627.0/40

All: 831.074 $\pm$ 0.089  $\chi^2$ /NDF: 11829482.0/83

- sign 830.347 $\pm$ 0.126  $\chi^2$ /NDF: 5810788.8/40

# asym\_sam3\_mean vs Slug



Right In:  $703.057 \pm 620.618$   $\chi^2/\text{NDF}: 26.0/16$

Left Out:  $942.464 \pm 188.039$   $\chi^2/\text{NDF}: 62.3/23$

Right Out:  $1038.423 \pm 604.250$   $\chi^2/\text{NDF}: 8.2/17$

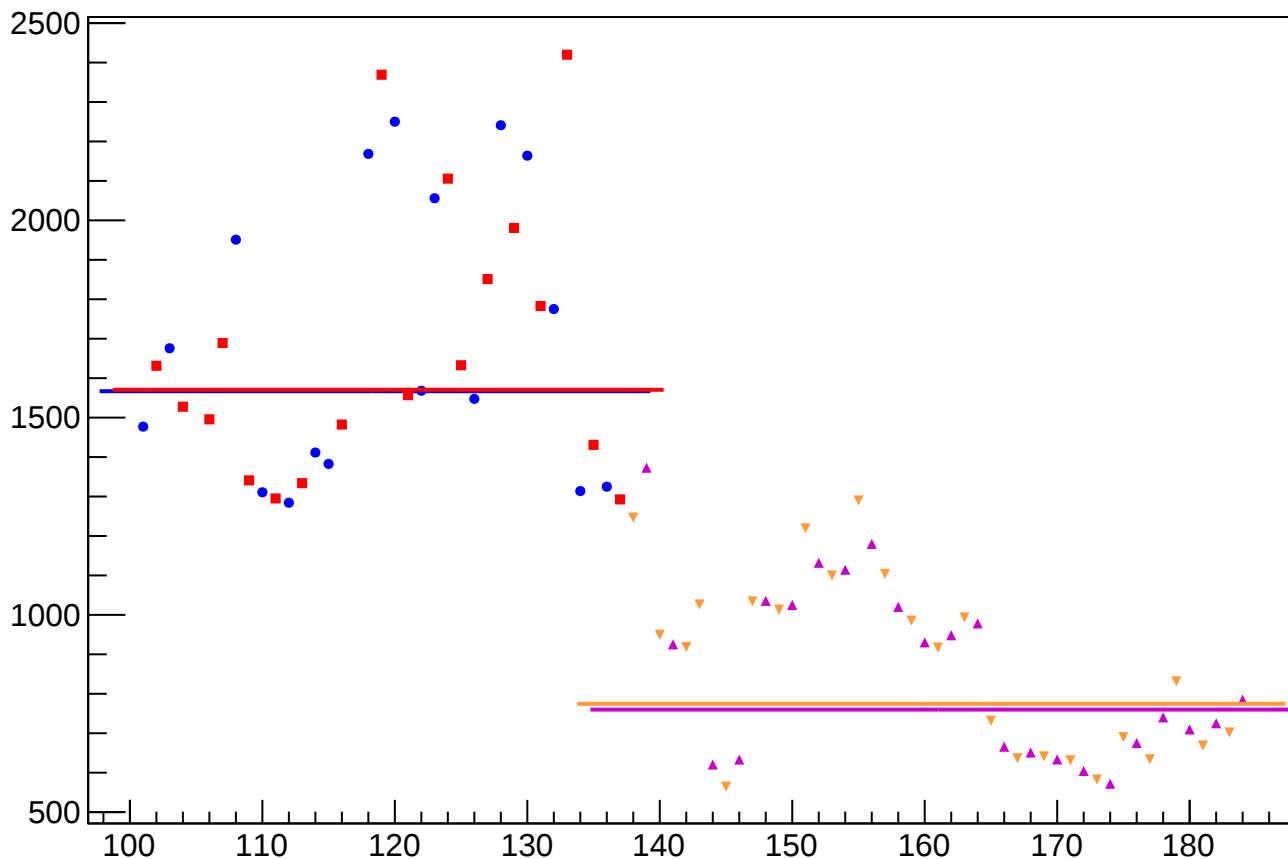
Left In:  $-2.470 \pm 187.271$   $\chi^2/\text{NDF}: 25.6/22$

+ sign  $922.335 \pm 179.960$   $\chi^2/\text{NDF}: 88.4/40$

All:  $503.027 \pm 126.866$   $\chi^2/\text{NDF}: 135.8/81$

- sign  $88.749 \pm 178.877$   $\chi^2/\text{NDF}: 36.5/40$

# asym\_sam3\_rms vs Slug



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 774.511 $\pm$ 0.133  $\chi^2$ /NDF: 2245999.1/23

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

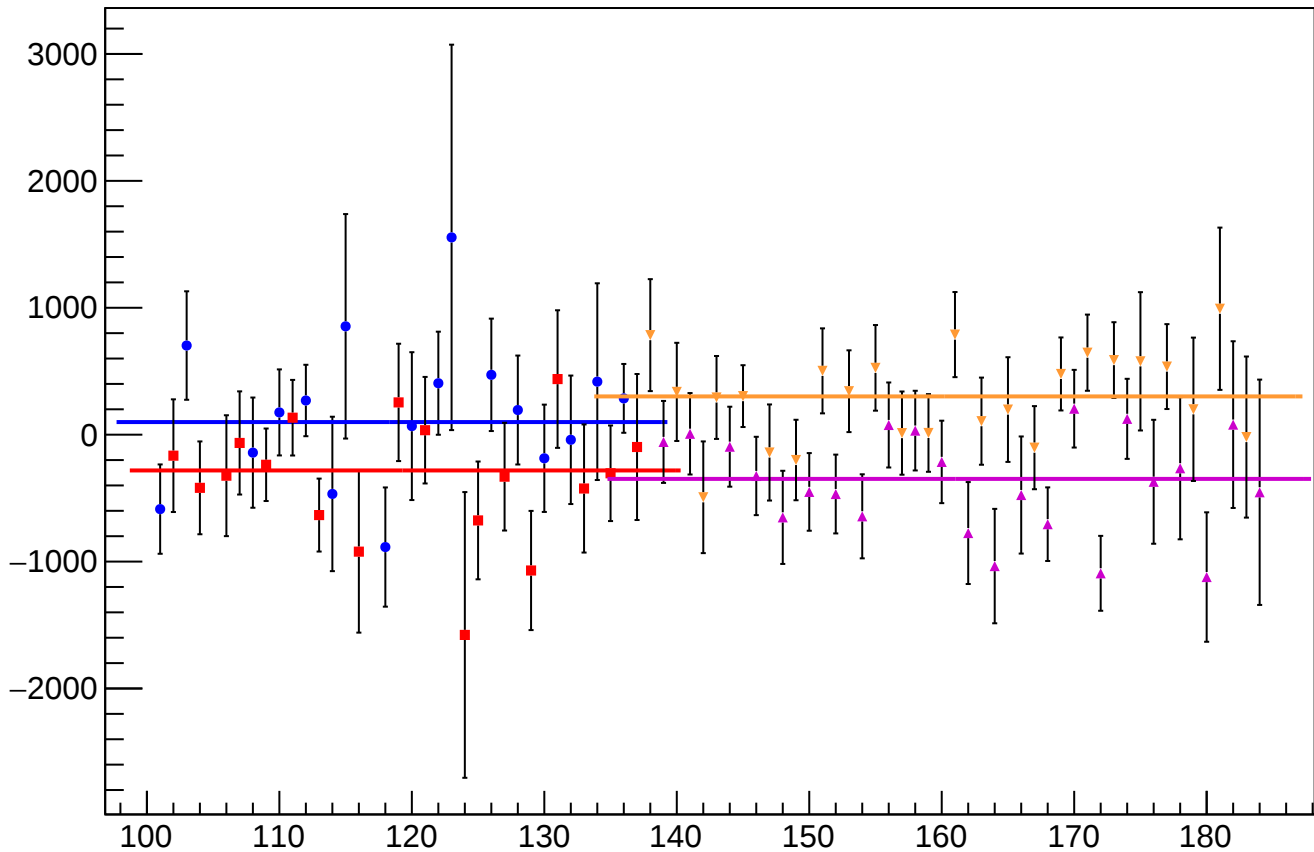
Left In: 759.935 $\pm$ 0.132  $\chi^2$ /NDF: 2014703.5/22

+ sign 841.140 $\pm$ 0.127  $\chi^2$ /NDF: 5732286.4/40

All: 836.026 $\pm$ 0.090  $\chi^2$ /NDF: 11473387.4/83

- sign 830.973 $\pm$ 0.126  $\chi^2$ /NDF: 5737890.1/40

# dit\_asym\_sam4\_mean vs Slug



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $301.537 \pm 71.649$   $\chi^2/\text{NDF}$ : 19.7/23

Right Out:  $-281.830 \pm 97.880$   $\chi^2/\text{NDF}$ : 13.7/17

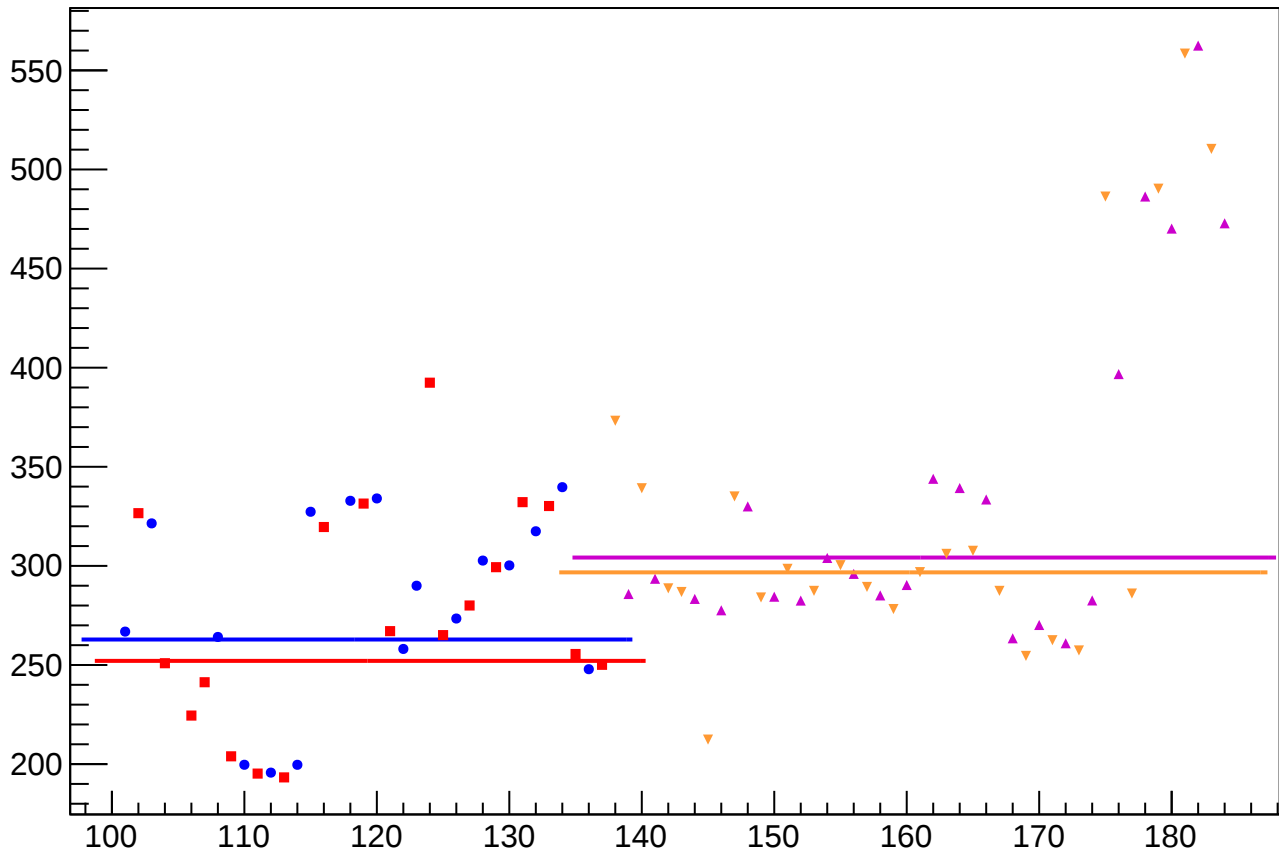
Left In:  $-348.428 \pm 74.384$   $\chi^2/\text{NDF}$ : 27.4/22

+ sign  $236.015 \pm 58.904$   $\chi^2/\text{NDF}$ : 38.2/40

All:  $-42.500 \pm 41.764$   $\chi^2/\text{NDF}$ : 124.5/81

- sign  $-324.046 \pm 59.223$   $\chi^2/\text{NDF}$ : 41.4/40

# dit\_asym\_sam4\_rms vs Slug



Right In: 262.856 $\pm$ 0.073  $\chi^2$ /NDF: 411698.3/16

Left Out: 296.734 $\pm$ 0.051  $\chi^2$ /NDF:1509514.4/23

Right Out: 252.079 $\pm$ 0.069  $\chi^2$ /NDF: 515150.4/17

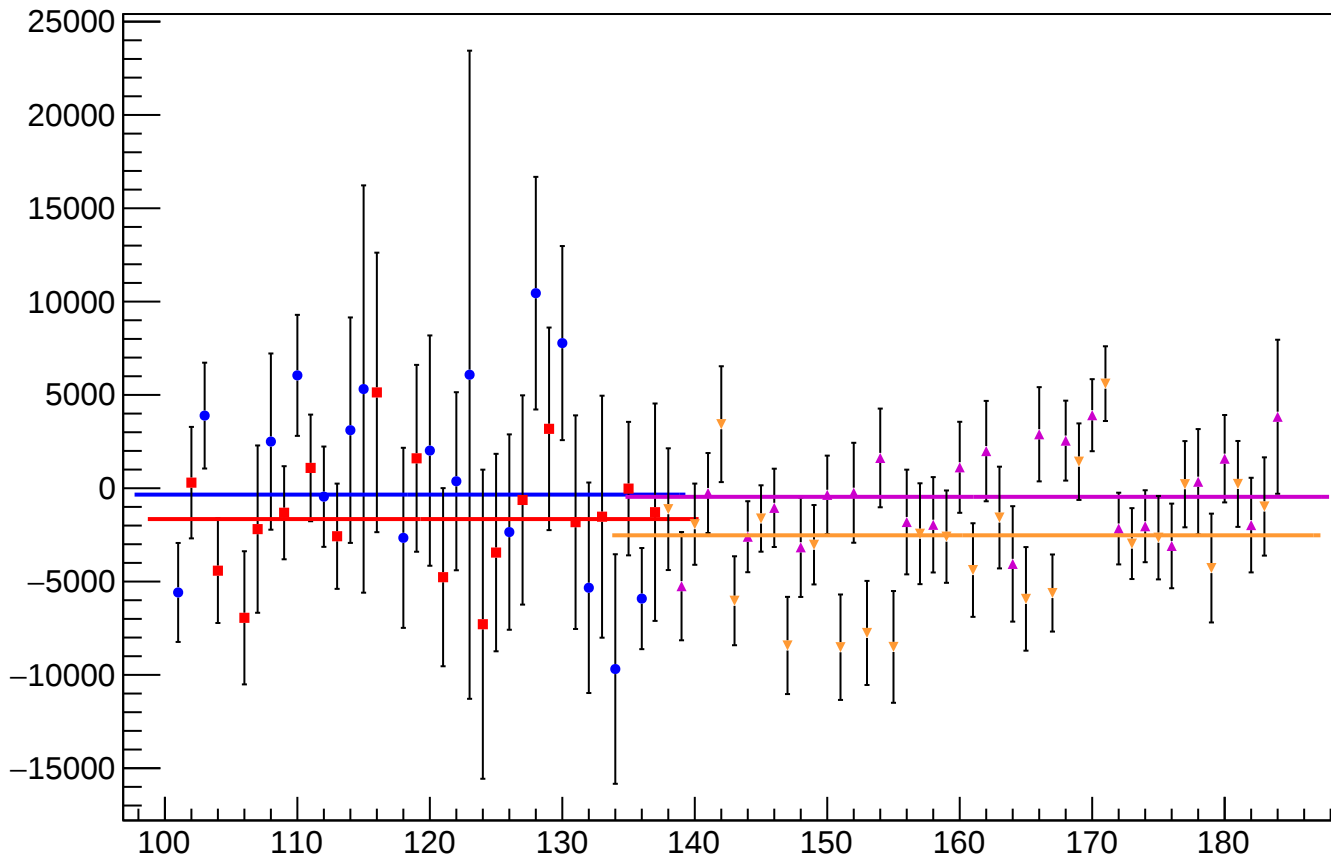
Left In: 304.211 $\pm$ 0.053  $\chi^2$ /NDF:1105493.1/22

+ sign 285.754 $\pm$ 0.042  $\chi^2$ /NDF: 2066142.9/40

All: 285.441 $\pm$ 0.030  $\chi^2$ /NDF: 4046539.1/81

- sign 285.126 $\pm$ 0.042  $\chi^2$ /NDF: 1980283.1/40

# asym\_sam4\_correction\_mean vs Slug



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}$ : 24.4/16

Left Out:  $-2521.563 \pm 488.162$   $\chi^2/\text{NDF}$ : 51.8/23

Right Out:  $-1651.954 \pm 929.858$   $\chi^2/\text{NDF}$ : 7.9/17

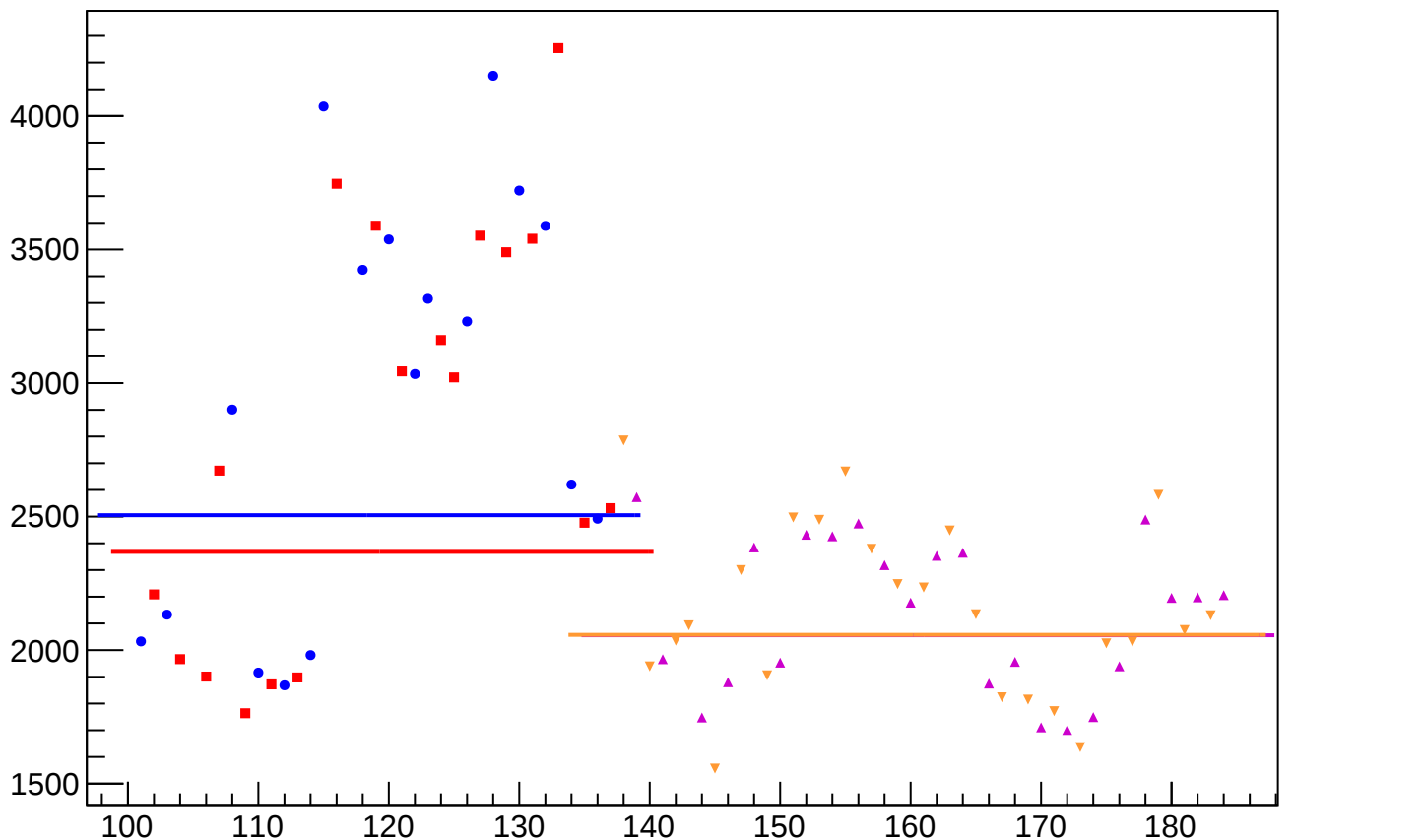
Left In:  $-460.244 \pm 494.914$   $\chi^2/\text{NDF}$ : 22.9/22

+ sign  $-2105.157 \pm 439.072$   $\chi^2/\text{NDF}$ : 80.0/40

All:  $-1410.786 \pm 309.695$   $\chi^2/\text{NDF}$ : 117.1/81

- sign  $-723.315 \pm 436.885$   $\chi^2/\text{NDF}$ : 32.1/40

# asym\_sam4\_correction\_rms vs Slug



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2057.270+/-0.345  $\chi^2/\text{NDF}$ : 824064.2/23

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

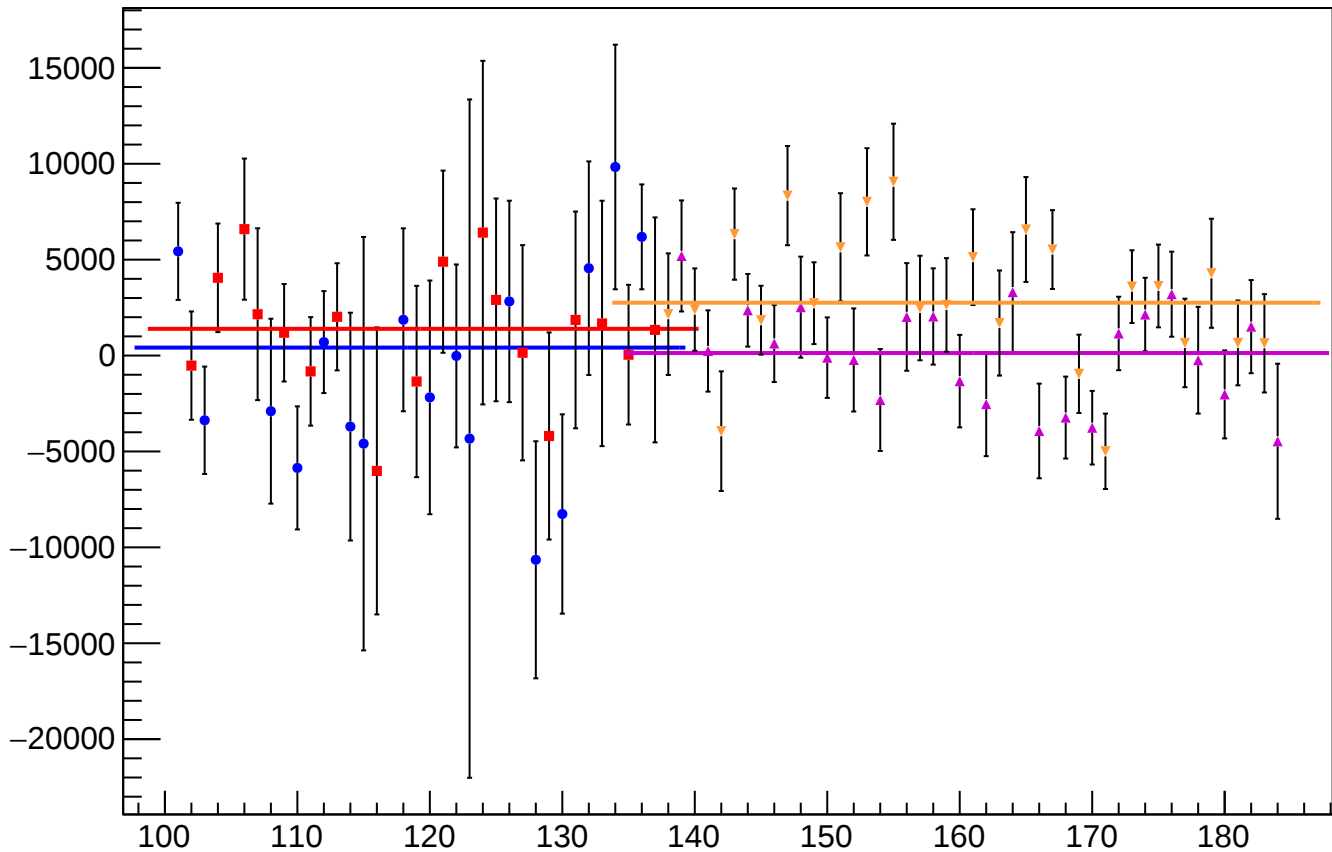
Left In: 2055.758+/-0.350  $\chi^2/\text{NDF}$ : 628611.0/22

+ sign 2142.854+/-0.310  $\chi^2/\text{NDF}$ : 2010028.6/40

All: 2133.725+/-0.219  $\chi^2/\text{NDF}$ : 3846977.6/83

- sign 2124.686+/-0.309  $\chi^2/\text{NDF}$ : 1835228.4/40

# asym\_sam4\_mean vs Slug



Right In:  $415.549 \pm 994.913$   $\chi^2/\text{NDF}$ : 24.5/16

Left Out:  $2755.575 \pm 484.204$   $\chi^2/\text{NDF}$ : 47.5/23

Right Out:  $1394.660 \pm 928.996$   $\chi^2/\text{NDF}$ : 7.5/17

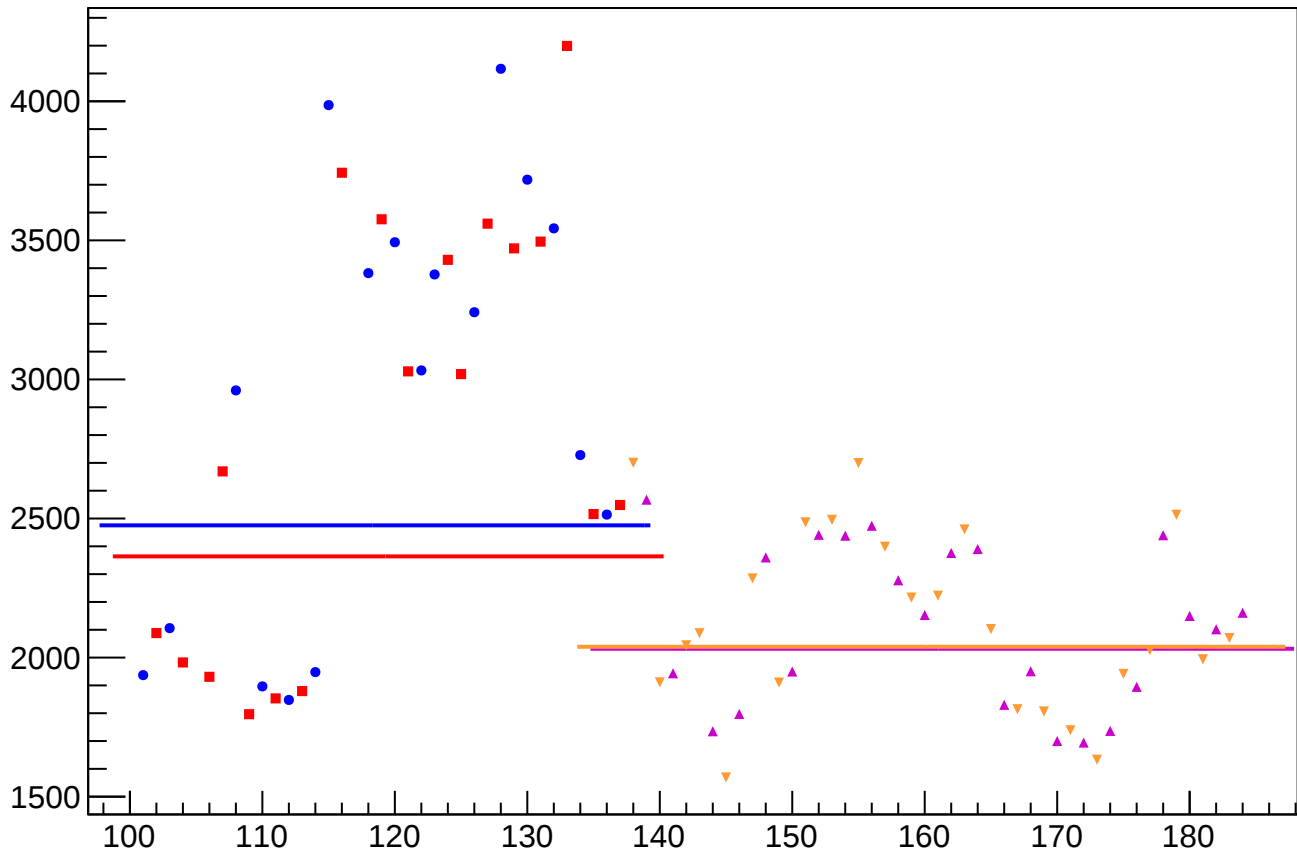
Left In:  $132.307 \pm 489.752$   $\chi^2/\text{NDF}$ : 24.7/22

+ sign  $2307.461 \pm 435.380$   $\chi^2/\text{NDF}$ : 76.5/40

All:  $1352.459 \pm 307.099$   $\chi^2/\text{NDF}$ : 119.8/81

- sign  $406.844 \pm 433.235$   $\chi^2/\text{NDF}$ : 33.7/40

# asym\_sam4\_rms vs Slug



Right In: 2475.435 $\pm$ 0.704  $\chi^2$ /NDF: 913073.5/16

Left Out: 2038.995 $\pm$ 0.342  $\chi^2$ /NDF: 809876.0/23

Right Out: 2363.907 $\pm$ 0.657  $\chi^2$ /NDF: 1026875.6/17

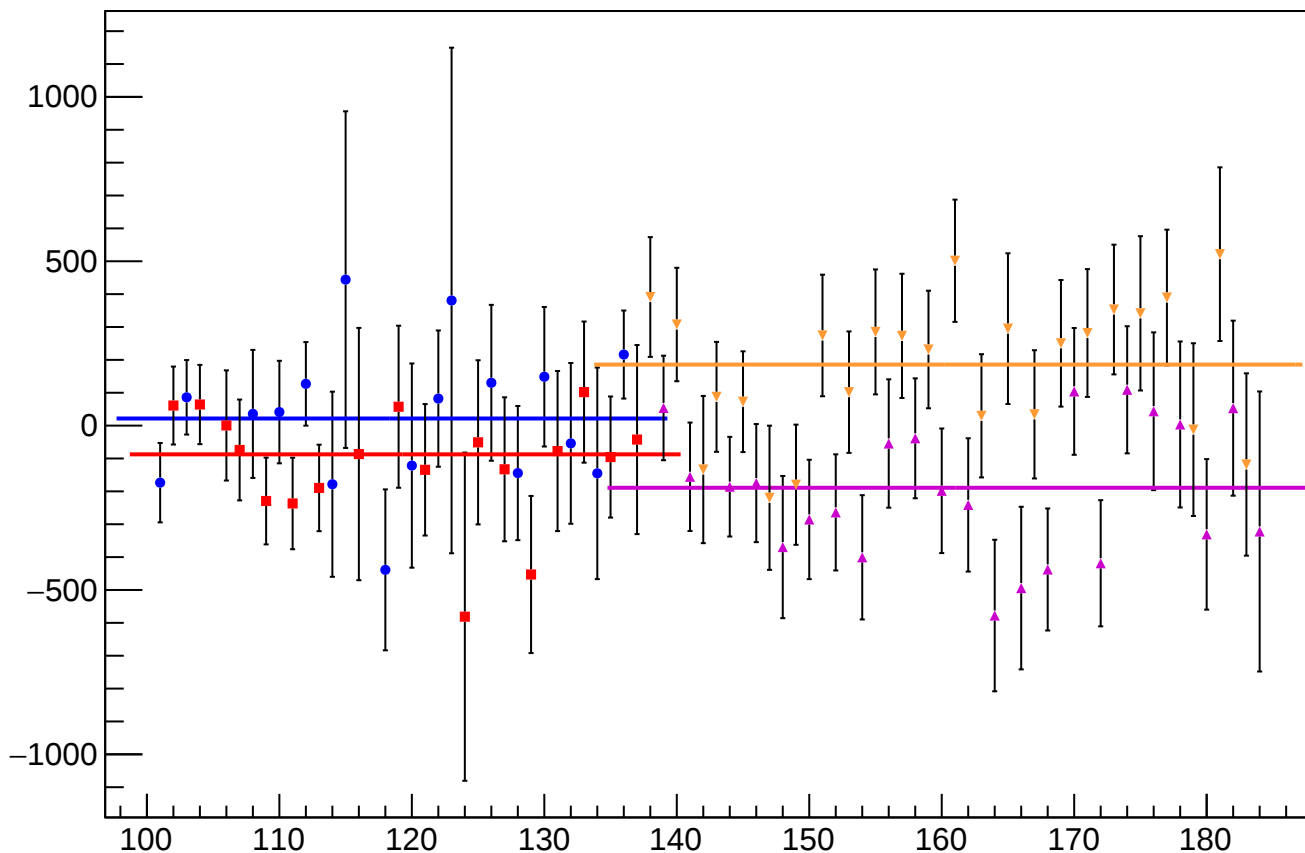
Left In: 2031.692 $\pm$ 0.346  $\chi^2$ /NDF: 653382.0/22

+ sign 2122.573 $\pm$ 0.308  $\chi^2$ /NDF: 2034112.5/40

All: 2113.212 $\pm$ 0.217  $\chi^2$ /NDF: 3916351.1/83

- sign 2103.942 $\pm$ 0.306  $\chi^2$ /NDF: 1880398.4/40

# dit\_asym\_sam5\_mean vs Slug



Right In: 21.649 $\pm$ 45.157  $\chi^2$ /NDF: 12.6/16

Left Out: 185.685 $\pm$ 40.050  $\chi^2$ /NDF:23.4/23

Right Out: -87.439 $\pm$ 41.826  $\chi^2$ /NDF: 10.9/17

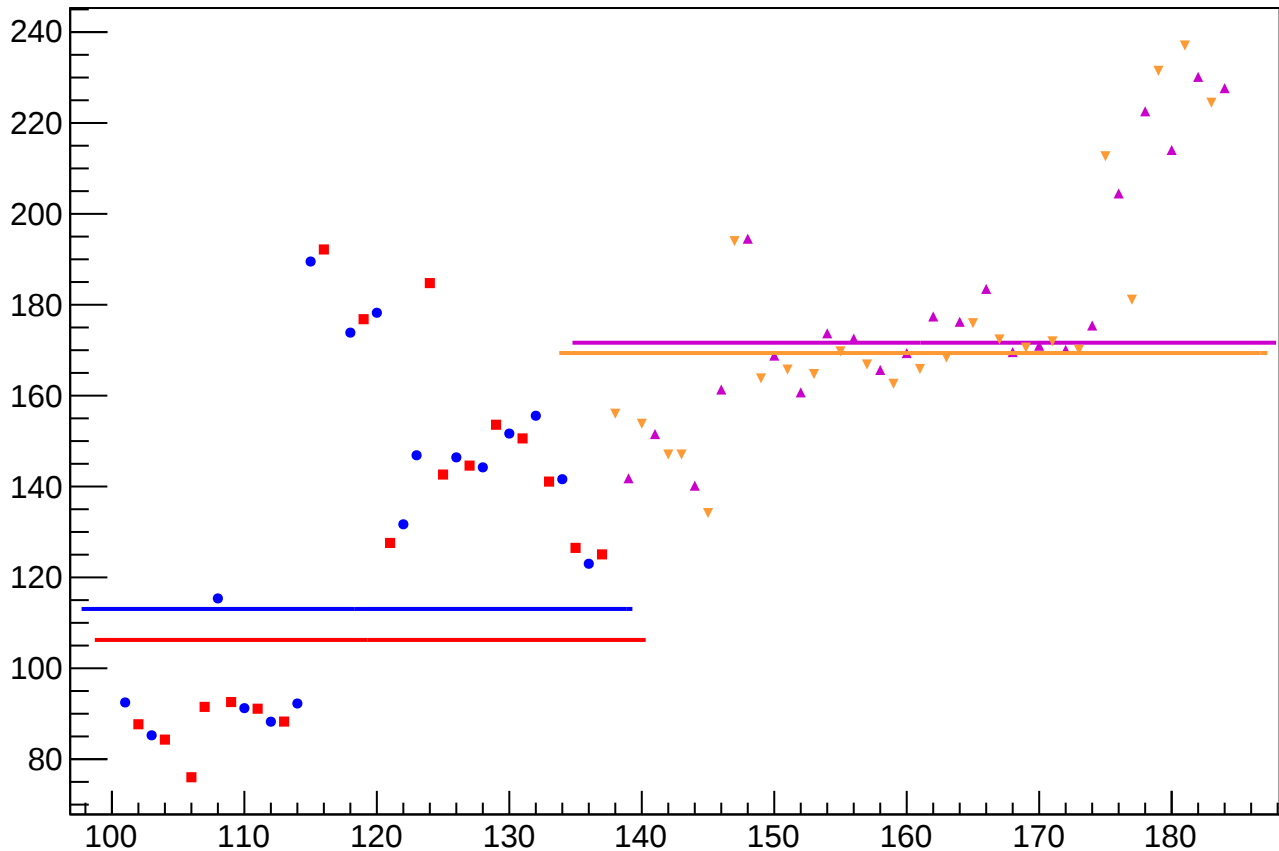
Left In: -189.100 $\pm$ 41.249  $\chi^2$ /NDF:21.1/22

+ sign 113.463 $\pm$ 29.963  $\chi^2$ /NDF: 43.4/40

All: -15.281 $\pm$ 20.974  $\chi^2$ /NDF: 114.6/81

- sign -138.975 $\pm$ 29.370  $\chi^2$ /NDF: 35.1/40

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.059 $\pm$ 0.032  $\chi^2$ /NDF: 820795.9/16

Left Out: 169.377 $\pm$ 0.028  $\chi^2$ /NDF: 620325.8/23

Right Out: 106.240 $\pm$ 0.030  $\chi^2$ /NDF: 951702.9/17

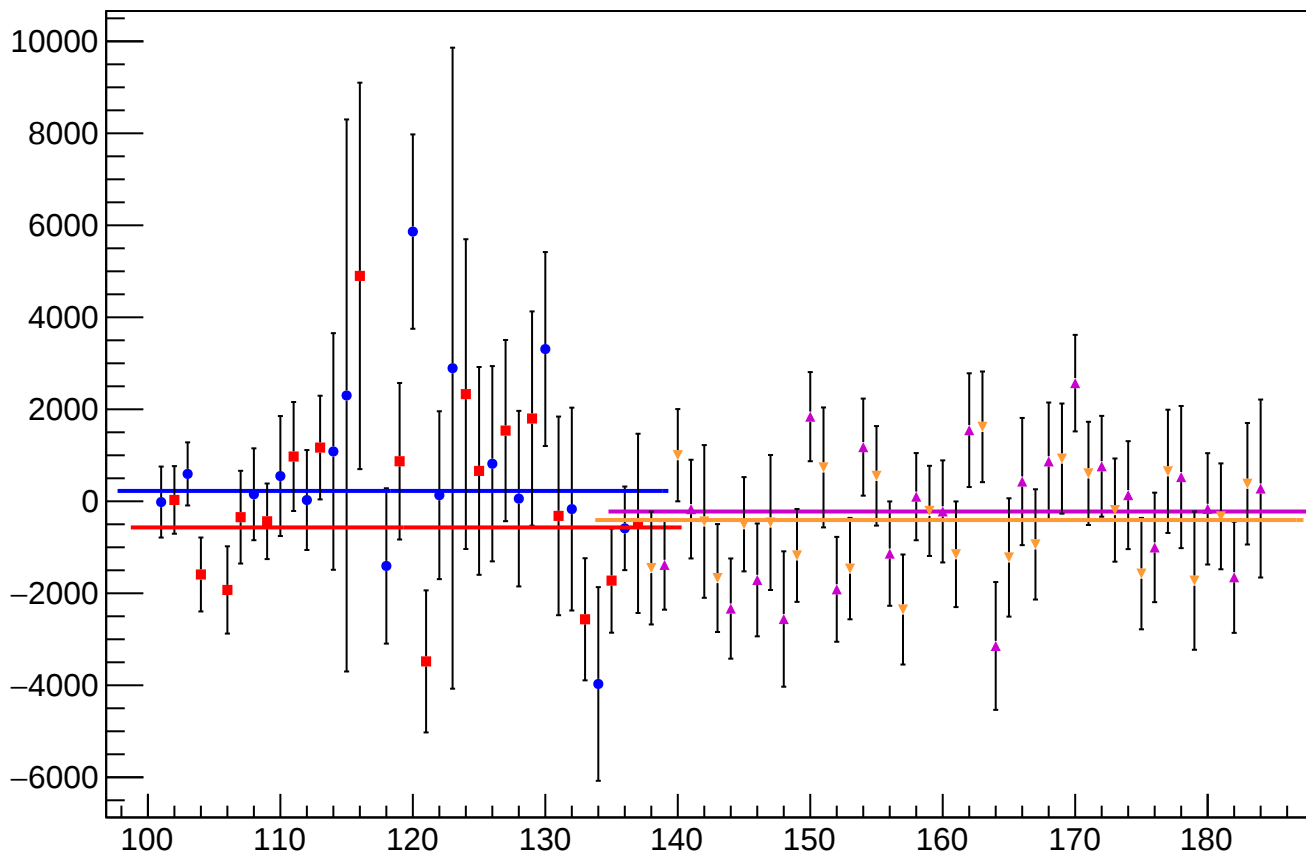
Left In: 171.646 $\pm$ 0.029  $\chi^2$ /NDF: 552888.4/22

+ sign 144.581 $\pm$ 0.021  $\chi^2$ /NDF: 3182355.3/40

All: 141.937 $\pm$ 0.015  $\chi^2$ /NDF: 7196747.4/81

- sign 139.397 $\pm$ 0.021  $\chi^2$ /NDF: 3983859.2/40

# asym\_sam5\_correction\_mean vs Slug



Right In: 225.635 $\pm$ 321.412  $\chi^2$ /NDF: 16.0/16

Left Out: -407.531 $\pm$ 241.127  $\chi^2$ /NDF:18.2/23

Right Out: -568.109 $\pm$ 290.500  $\chi^2$ /NDF: 21.0/17

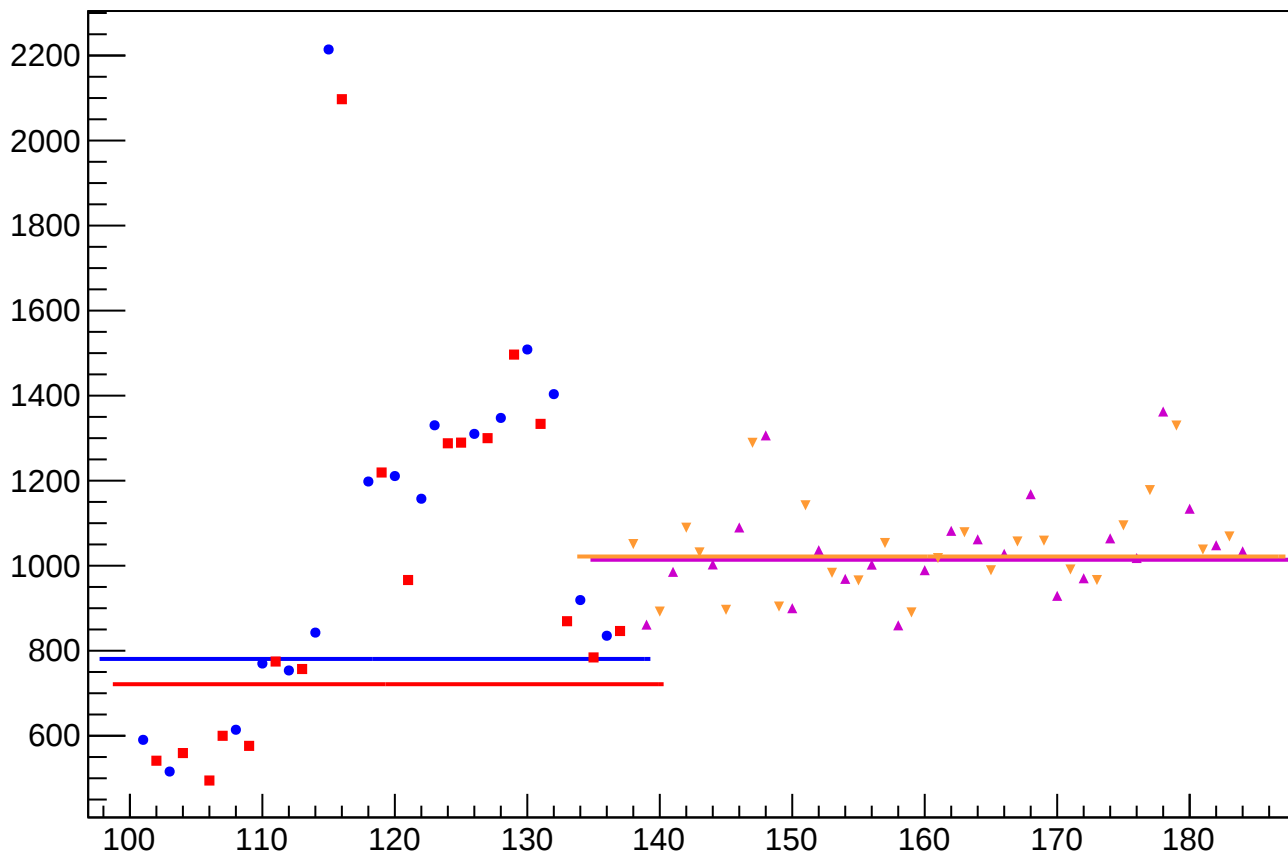
Left In: -222.173 $\pm$ 243.547  $\chi^2$ /NDF:35.9/22

+ sign -179.509 $\pm$ 192.882  $\chi^2$ /NDF: 36.7/40

All: -275.286 $\pm$ 134.125  $\chi^2$ /NDF: 94.9/81

- sign -364.960 $\pm$ 186.635  $\chi^2$ /NDF: 57.8/40

# asym\_sam5\_correction\_rms vs Slug



Right In: 780.700 $\pm$ 0.227  $\chi^2$ /NDF: 1609510.2/16

Left Out: 1021.631 $\pm$ 0.171  $\chi^2$ /NDF:361199.4/23

Right Out: 721.264 $\pm$ 0.205  $\chi^2$ /NDF: 1626627.9/17

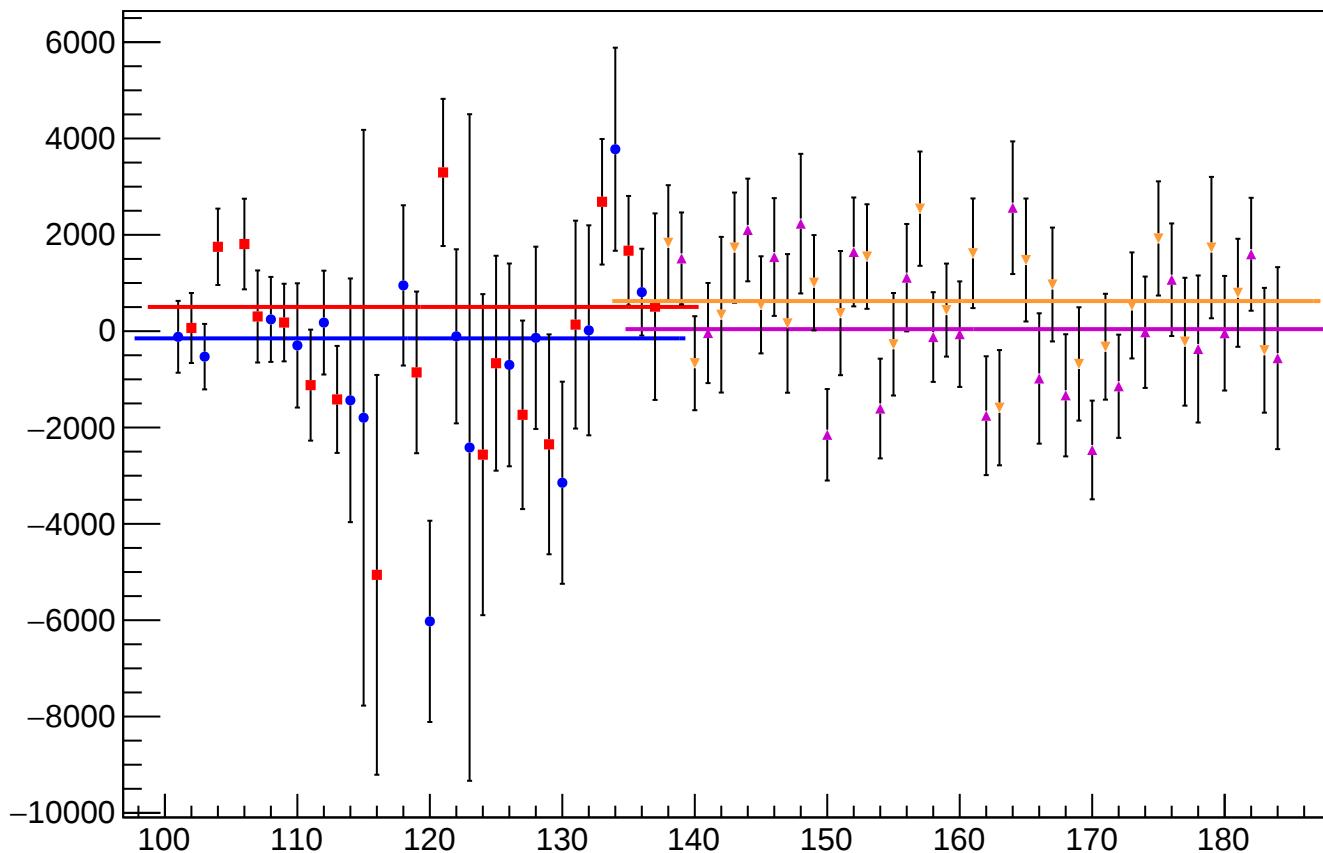
Left In: 1013.992 $\pm$ 0.172  $\chi^2$ /NDF:404573.8/22

+ sign 934.864 $\pm$ 0.136  $\chi^2$ /NDF: 2689796.9/40

All: 913.329 $\pm$ 0.095  $\chi^2$ /NDF: 5961845.2/81

- sign 893.167 $\pm$ 0.132  $\chi^2$ /NDF: 3223775.8/40

# asym\_sam5\_mean vs Slug



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $625.002 \pm 236.930$   $\chi^2/\text{NDF}$ : 17.6/23

Right Out:  $503.162 \pm 285.781$   $\chi^2/\text{NDF}$ : 23.6/17

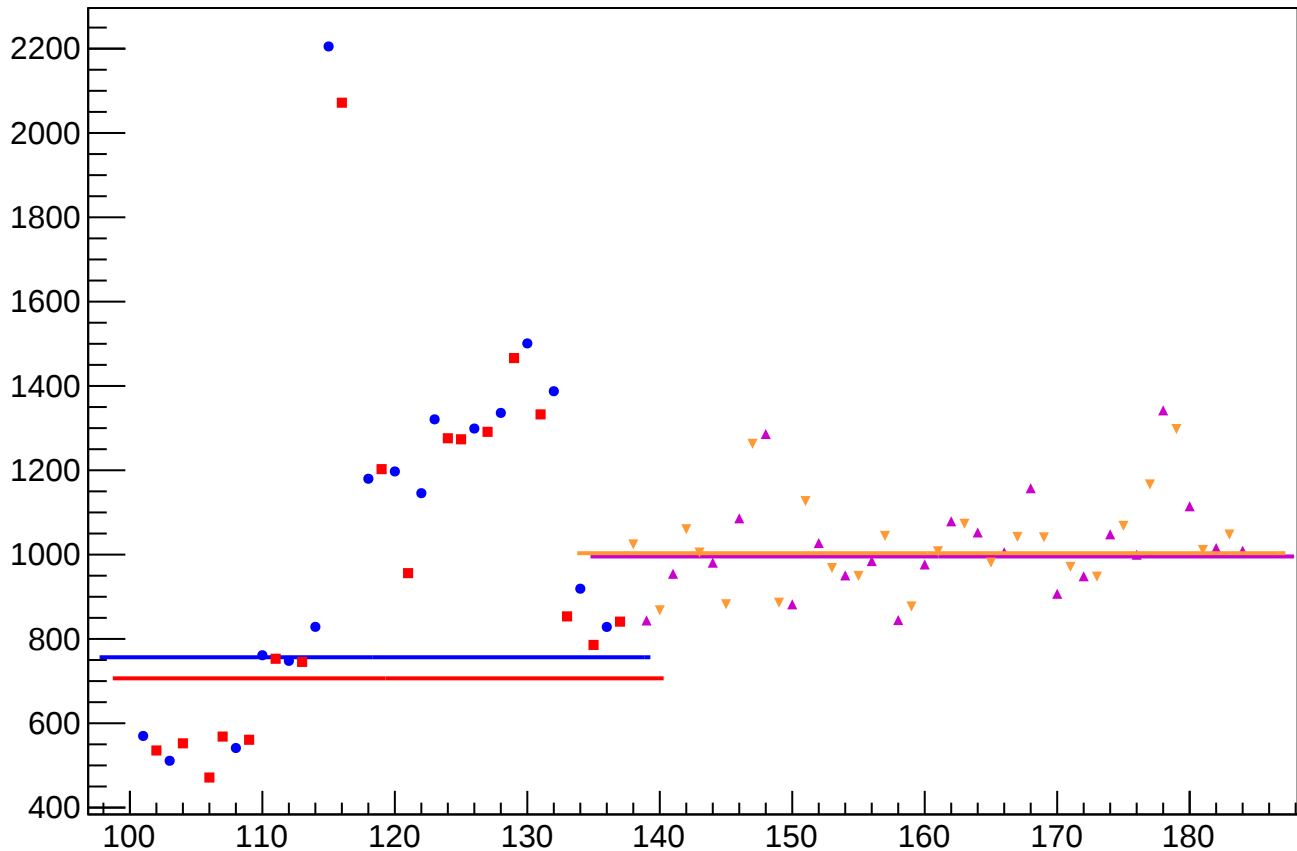
Left In:  $42.397 \pm 239.278$   $\chi^2/\text{NDF}$ : 37.9/22

+ sign  $342.955 \pm 188.902$   $\chi^2/\text{NDF}$ : 37.7/40

All:  $286.005 \pm 131.609$   $\chi^2/\text{NDF}$ : 100.9/81

- sign  $232.289 \pm 183.462$   $\chi^2/\text{NDF}$ : 63.0/40

# asym\_sam5\_rms vs Slug



Right In: 756.539 $\pm$ 0.221  $\chi^2$ /NDF: 1713642.0/16

Left Out: 1003.344 $\pm$ 0.168  $\chi^2$ /NDF: 363624.7/23

Right Out: 706.550 $\pm$ 0.202  $\chi^2$ /NDF: 1670007.9/17

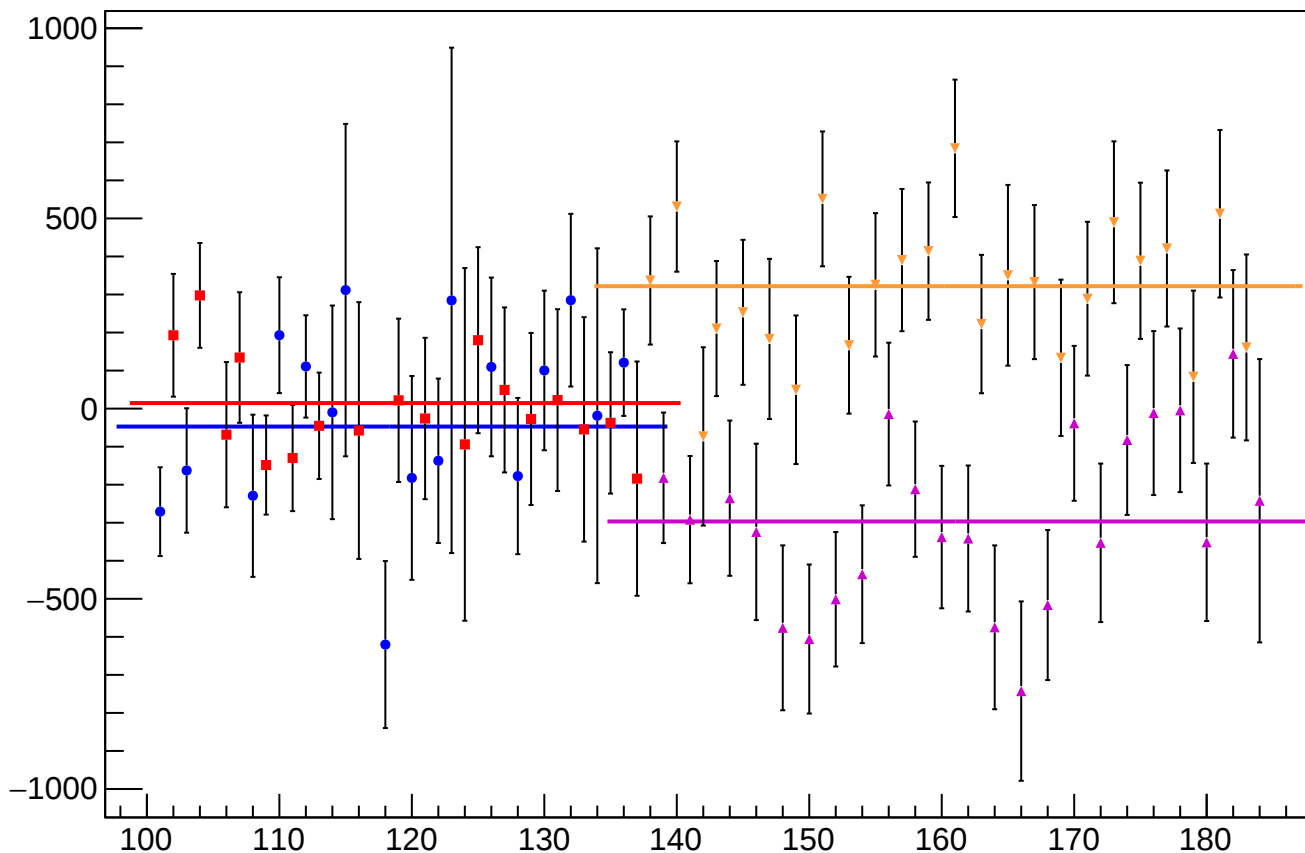
Left In: 995.590 $\pm$ 0.169  $\chi^2$ /NDF: 424434.6/22

+ sign 913.427 $\pm$ 0.134  $\chi^2$ /NDF: 2867925.3/40

All: 894.409 $\pm$ 0.093  $\chi^2$ /NDF: 6204485.0/81

- sign 876.470 $\pm$ 0.130  $\chi^2$ /NDF: 3297166.3/40

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}$ : 21.9/16

Left Out:  $321.903 \pm 40.055$   $\chi^2/\text{NDF}$ : 18.5/23

Right Out:  $14.620 \pm 44.849$   $\chi^2/\text{NDF}$ : 10.1/17

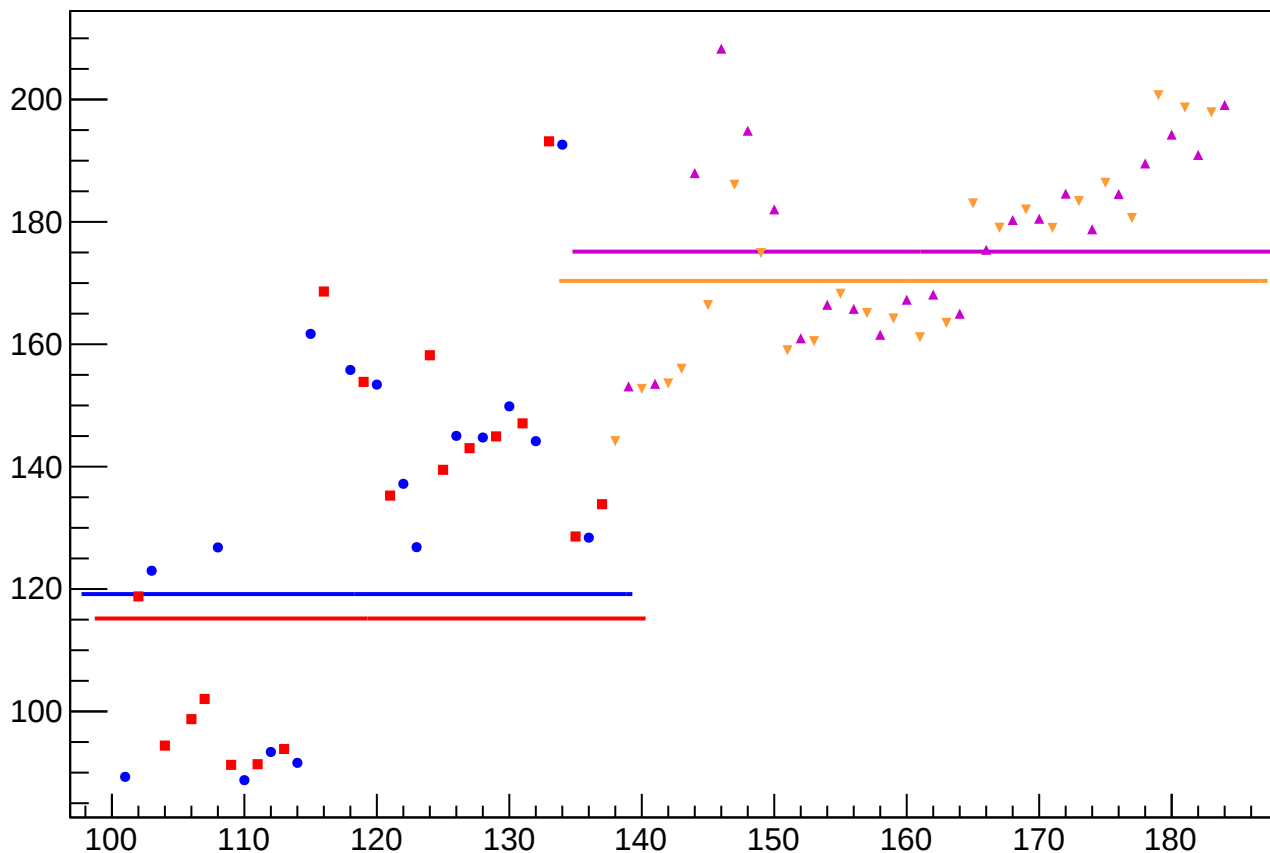
Left In:  $-296.645 \pm 41.875$   $\chi^2/\text{NDF}$ : 26.3/22

+ sign  $167.654 \pm 30.559$   $\chi^2/\text{NDF}$ : 75.9/40

All:  $8.245 \pm 21.626$   $\chi^2/\text{NDF}$ : 192.5/81

- sign  $-151.675 \pm 30.608$   $\chi^2/\text{NDF}$ : 62.1/40

# dit\_asym\_sam6\_rms vs Slug



Right In: 119.175 $\pm$ 0.033  $\chi^2$ /NDF: 615304.2/16

Left Out: 170.354 $\pm$ 0.028  $\chi^2$ /NDF: 270906.9/23

Right Out: 115.188 $\pm$ 0.032  $\chi^2$ /NDF: 675564.7/17

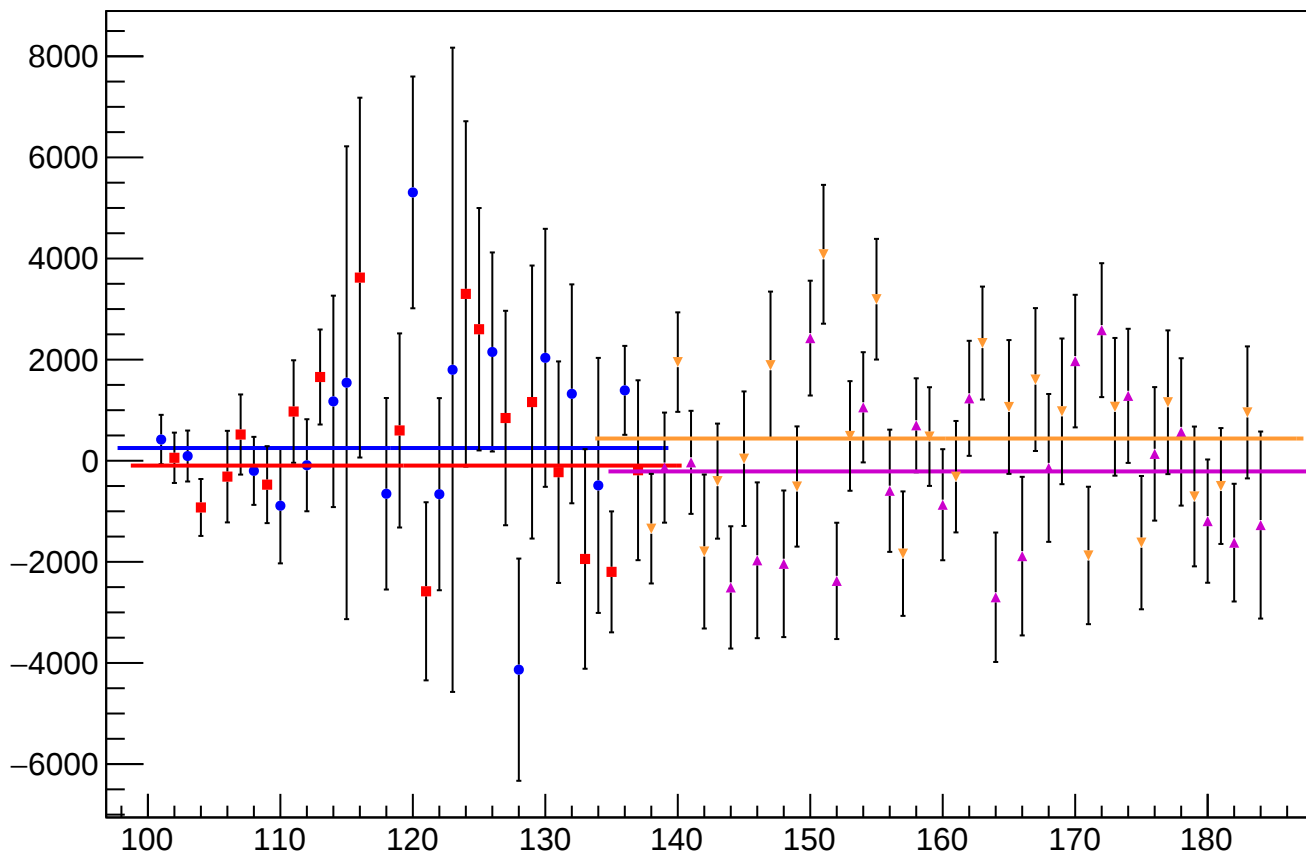
Left In: 175.139 $\pm$ 0.030  $\chi^2$ /NDF: 234951.0/22

+ sign 148.964 $\pm$ 0.022  $\chi^2$ /NDF: 2250879.7/40

All: 148.092 $\pm$ 0.015  $\chi^2$ /NDF: 5073927.3/81

- sign 147.217 $\pm$ 0.022  $\chi^2$ /NDF: 2819784.7/40

# asym\_sam6\_correction\_mean vs Slug



Right In: 251.733+/-252.819  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 439.473+/-251.392  $\chi^2/\text{NDF}$ : 37.0/23

Right Out: -95.805+/-245.748  $\chi^2/\text{NDF}$ : 17.5/17

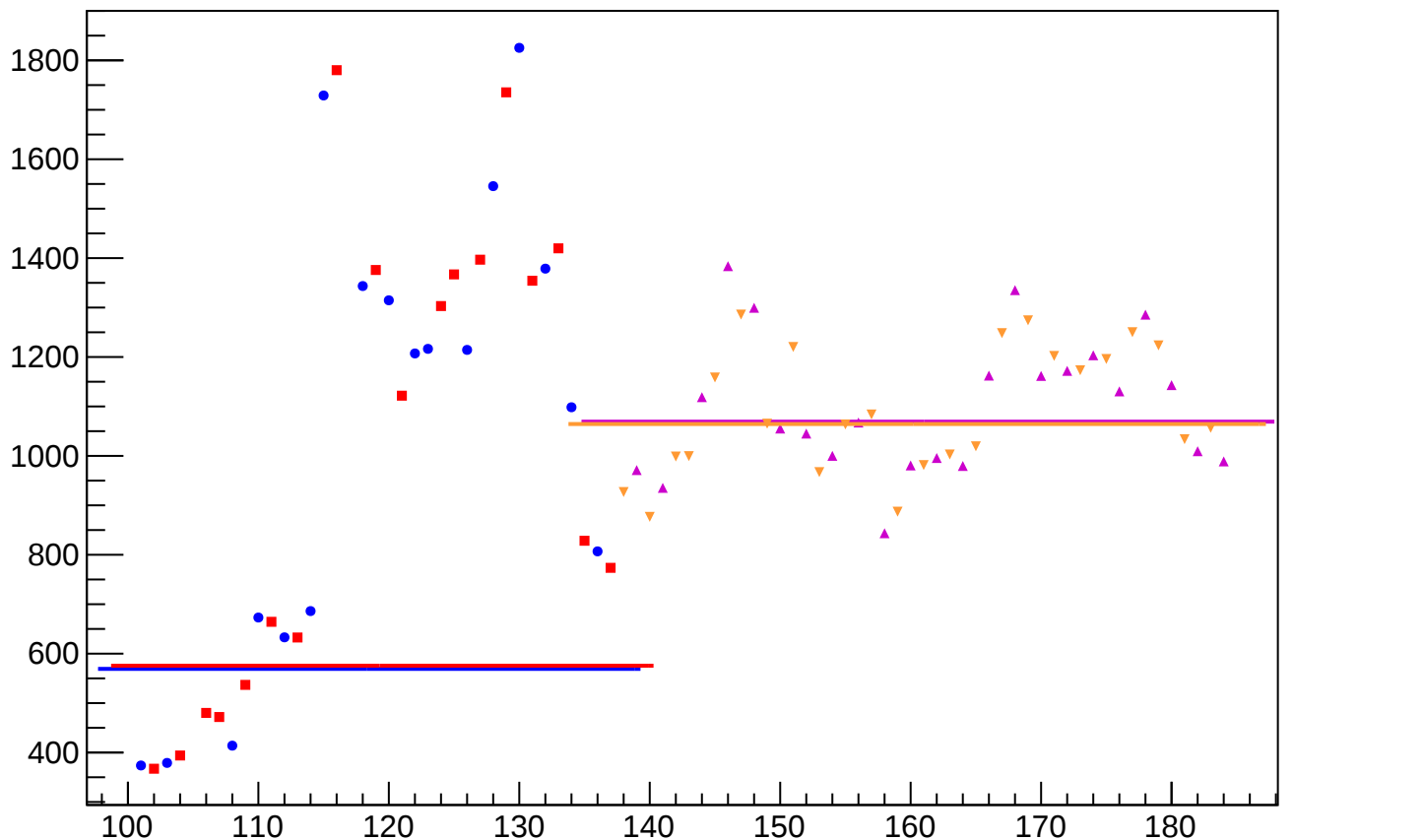
Left In: -211.216+/-256.884  $\chi^2/\text{NDF}$ : 36.1/22

+ sign 346.134+/-178.264  $\chi^2/\text{NDF}$ : 52.1/40

All: 96.629+/-125.808  $\chi^2/\text{NDF}$ : 109.7/81

- sign -150.955+/-177.576  $\chi^2/\text{NDF}$ : 53.6/40

# asym\_sam6\_correction\_rms vs Slug



Right In: 569.200 $\pm$ 0.179  $\chi^2$ /NDF: 3267047.1/16

Left Out: 1064.472 $\pm$ 0.178  $\chi^2$ /NDF: 491111.3/23

Right Out: 575.584 $\pm$ 0.174  $\chi^2$ /NDF: 3058273.5/17

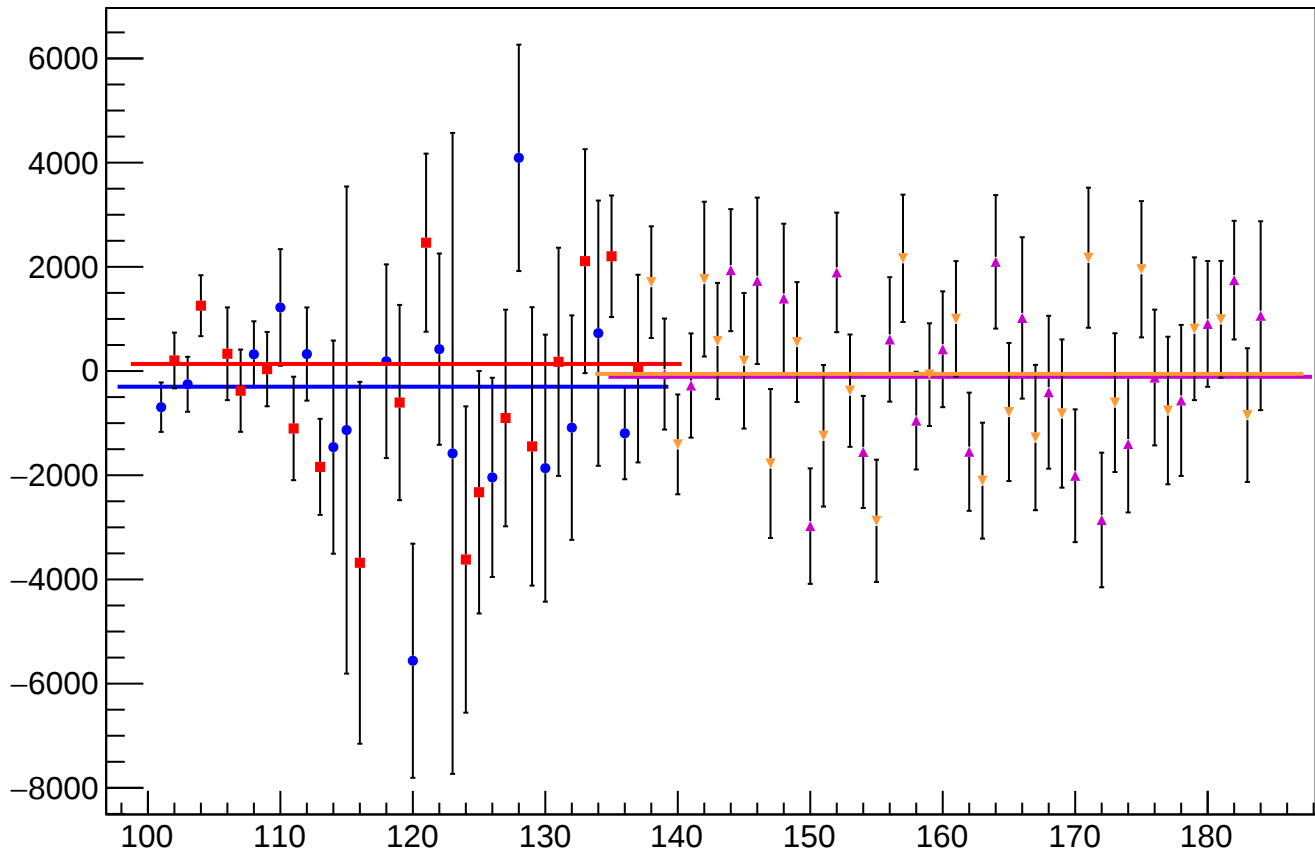
Left In: 1069.252 $\pm$ 0.182  $\chi^2$ /NDF: 526609.1/22

+ sign 818.238 $\pm$ 0.126  $\chi^2$ /NDF: 7617553.3/40

All: 814.849 $\pm$ 0.089  $\chi^2$ /NDF: 15060601.1/83

- sign 811.486 $\pm$ 0.126  $\chi^2$ /NDF: 7441607.6/40

# asym\_sam6\_mean vs Slug



Right In:  $-300.652 \pm 250.302$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-54.179 \pm 248.357$   $\chi^2/\text{NDF}$ : 31.0/23

Right Out:  $136.107 \pm 247.692$   $\chi^2/\text{NDF}$ : 20.9/17

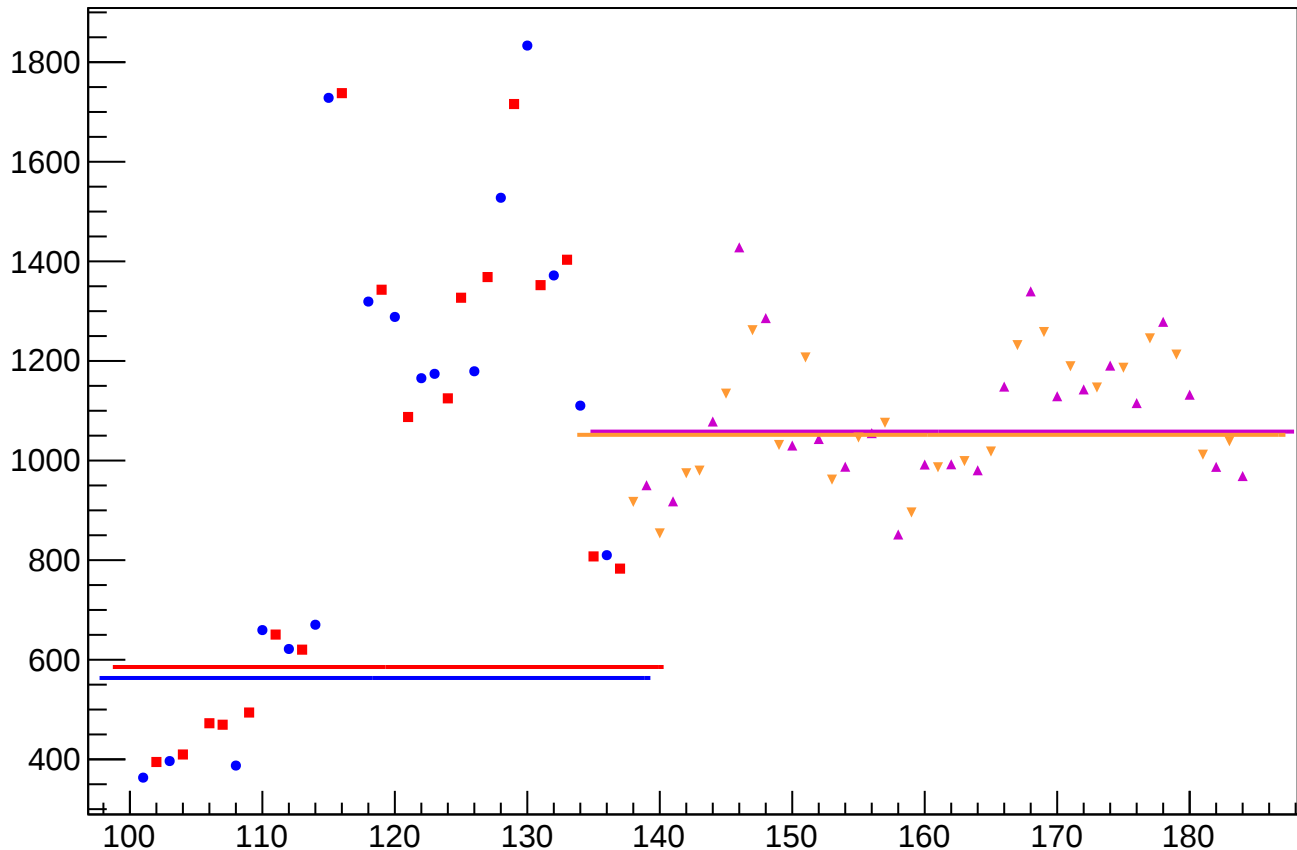
Left In:  $-110.879 \pm 254.337$   $\chi^2/\text{NDF}$ : 35.2/22

+ sign  $-176.454 \pm 176.299$   $\chi^2/\text{NDF}$ : 48.2/40

All:  $-80.910 \pm 125.066$   $\chi^2/\text{NDF}$ : 105.3/81

- sign  $15.883 \pm 177.448$   $\chi^2/\text{NDF}$ : 56.5/40

# asym\_sam6\_rms vs Slug



Right In: 563.393 $\pm$ 0.177  $\chi^2$ /NDF: 3259045.7/16

Left Out: 1051.674 $\pm$ 0.176  $\chi^2$ /NDF: 481792.4/23

Right Out: 585.438 $\pm$ 0.175  $\chi^2$ /NDF: 2818143.7/17

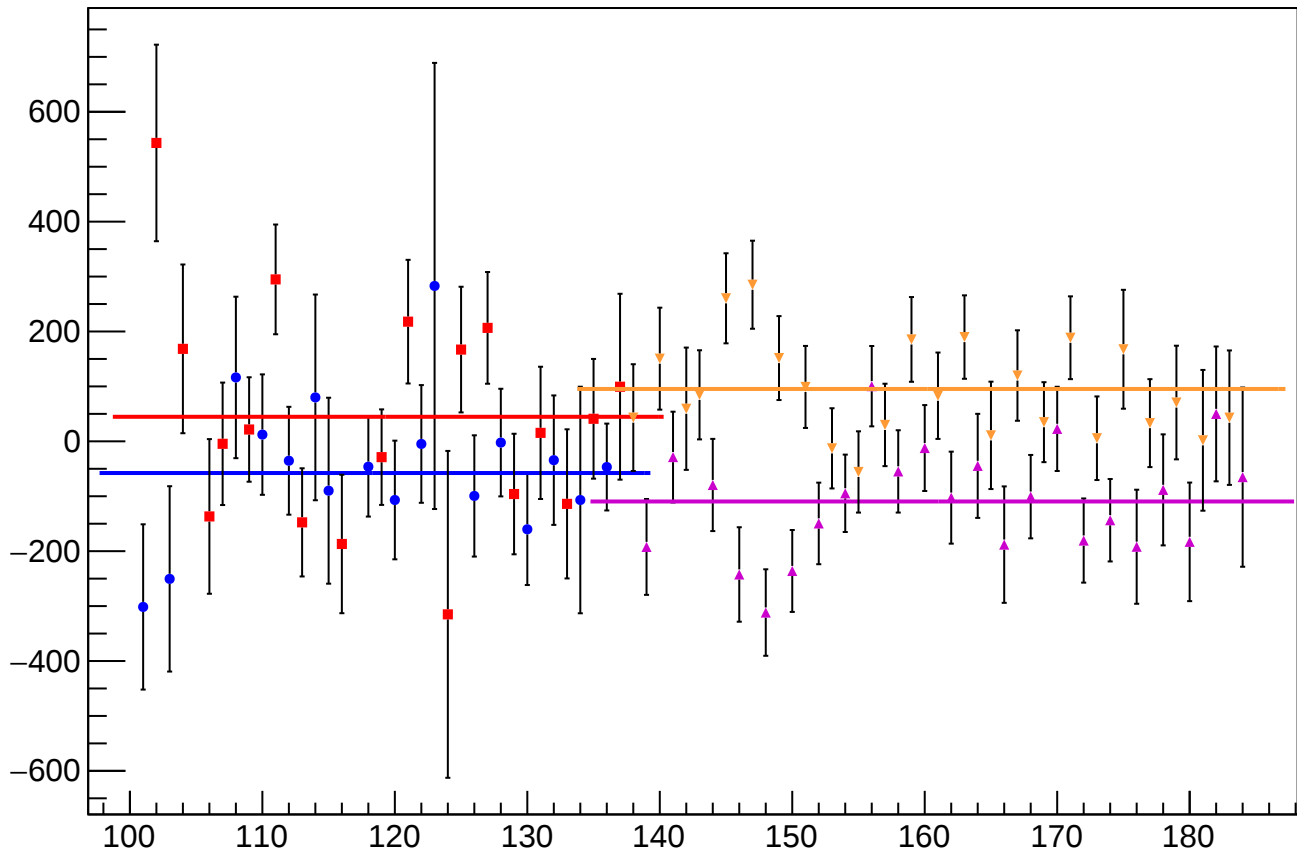
Left In: 1058.154 $\pm$ 0.180  $\chi^2$ /NDF: 532260.0/22

+ sign 809.438 $\pm$ 0.125  $\chi^2$ /NDF: 7576010.9/40

All: 812.469 $\pm$ 0.088  $\chi^2$ /NDF: 14473492.7/83

- sign 815.540 $\pm$ 0.125  $\chi^2$ /NDF: 6896291.9/40

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}$ : 9.1/16

Left Out:  $95.358 \pm 17.119$   $\chi^2/\text{NDF}$ : 27.3/23

Right Out:  $44.693 \pm 27.711$   $\chi^2/\text{NDF}$ : 35.2/17

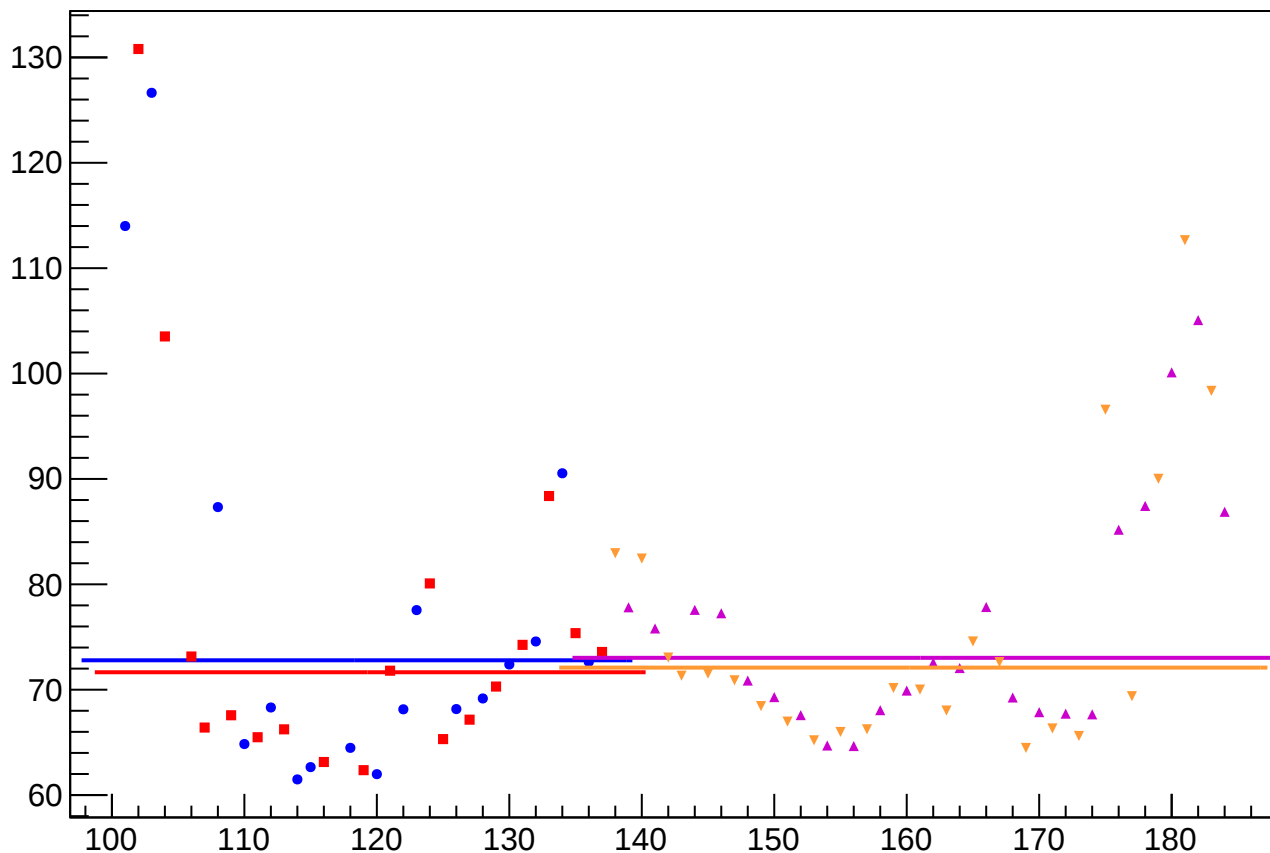
Left In:  $-109.529 \pm 17.618$   $\chi^2/\text{NDF}$ : 32.5/22

+ sign  $55.175 \pm 14.701$   $\chi^2/\text{NDF}$ : 57.4/40

All:  $-4.305 \pm 10.454$   $\chi^2/\text{NDF}$ : 180.2/81

- sign  $-65.136 \pm 14.867$   $\chi^2/\text{NDF}$ : 89.7/40

# dit\_asym\_sam7\_rms vs Slug



Right In: 72.790 $\pm$ 0.020  $\chi^2$ /NDF: 464772.9/16

Left Out: 72.096 $\pm$ 0.012  $\chi^2$ /NDF: 623183.7/23

Right Out: 71.655 $\pm$ 0.020  $\chi^2$ /NDF: 404376.9/17

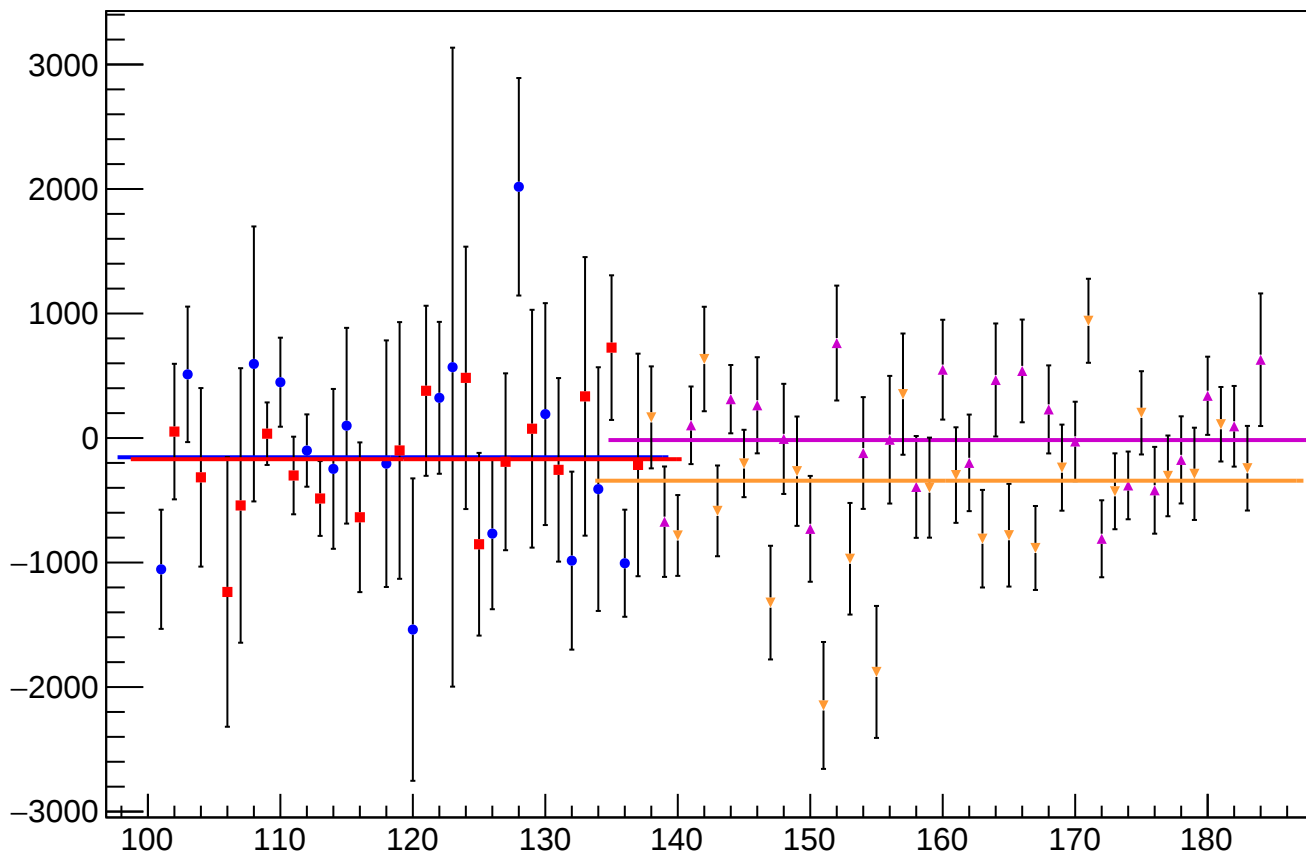
Left In: 73.025 $\pm$ 0.012  $\chi^2$ /NDF: 485154.7/22

+ sign 72.278 $\pm$ 0.010  $\chi^2$ /NDF: 1088817.9/40

All: 72.452 $\pm$ 0.007  $\chi^2$ /NDF: 1982394.0/81

- sign 72.630 $\pm$ 0.011  $\chi^2$ /NDF: 893009.5/40

# asym\_sam7\_correction\_mean vs Slug



Right In:  $-154.404 \pm 140.700$   $\chi^2/\text{NDF}$ : 23.2/16

Left Out:  $-342.761 \pm 75.255$   $\chi^2/\text{NDF}$ : 63.9/23

Right Out:  $-170.028 \pm 126.220$   $\chi^2/\text{NDF}$ : 8.4/17

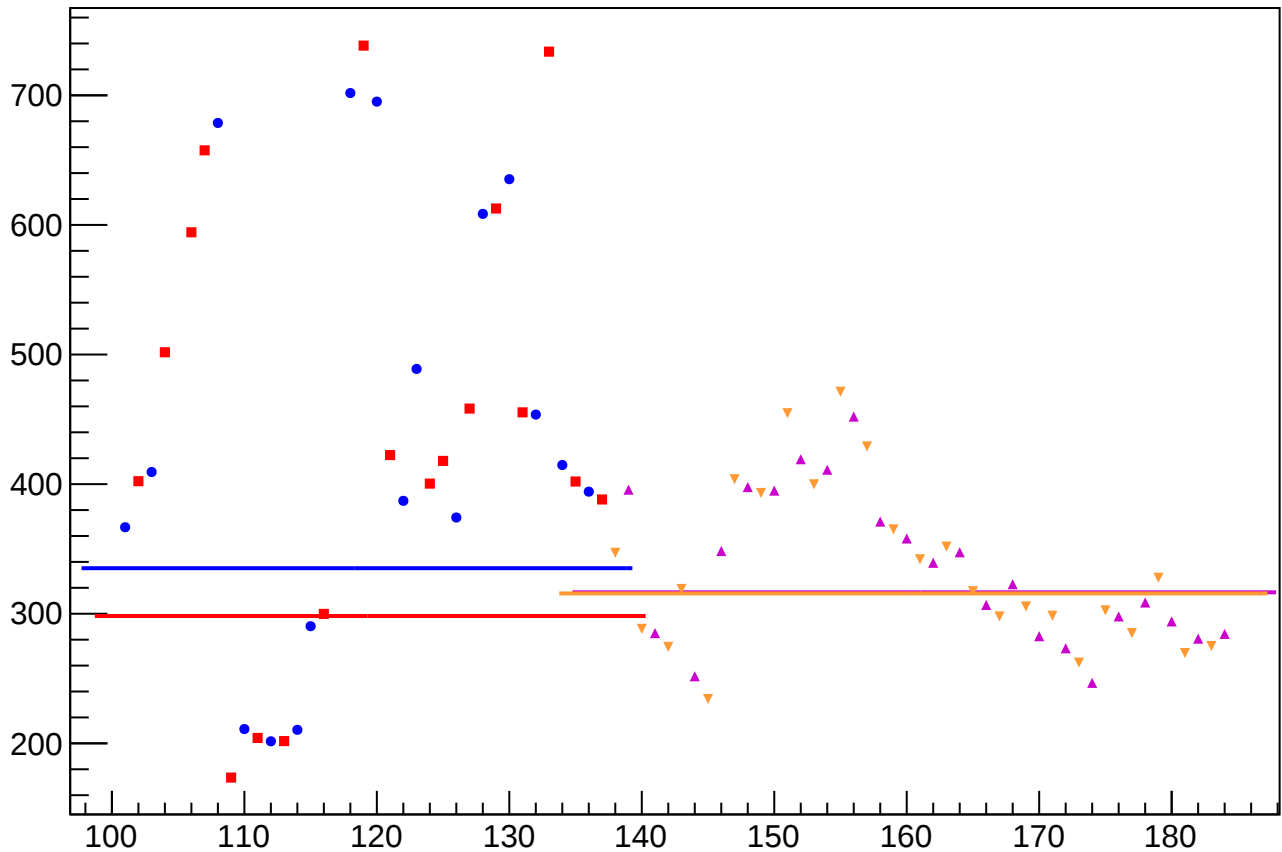
Left In:  $-16.398 \pm 76.588$   $\chi^2/\text{NDF}$ : 29.3/22

+ sign  $-300.862 \pm 66.360$   $\chi^2/\text{NDF}$ : 88.5/40

All:  $-177.675 \pm 46.608$   $\chi^2/\text{NDF}$ : 134.1/81

- sign  $-57.741 \pm 65.477$   $\chi^2/\text{NDF}$ : 38.8/40

# asym\_sam7\_correction\_rms vs Slug



Right In: 335.134 $\pm$ 0.099  $\chi^2$ /NDF: 1994045.2/16

Left Out: 315.660 $\pm$ 0.053  $\chi^2$ /NDF:1093133.5/23

+ sign 319.992 $\pm$ 0.047  $\chi^2$ /NDF: 3116969.7/40

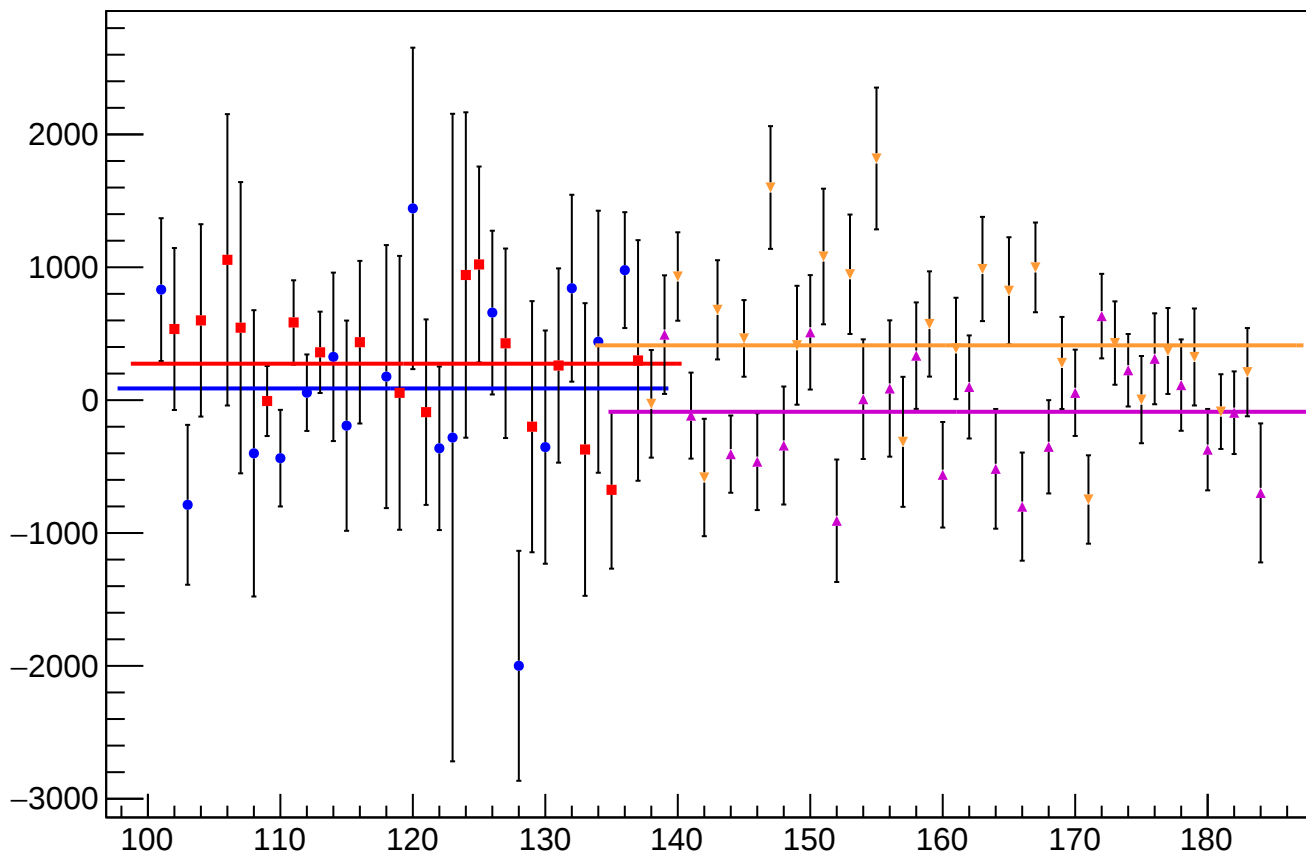
Right Out: 298.253 $\pm$ 0.089  $\chi^2$ /NDF: 2776555.9/17

All: 315.748 $\pm$ 0.033  $\chi^2$ /NDF: 6930159.5/81

- sign 311.617 $\pm$ 0.046  $\chi^2$ /NDF: 3797048.5/40

Left In: 316.537 $\pm$ 0.054  $\chi^2$ /NDF:989819.1/22

# asym\_sam7\_mean vs Slug



Right In:  $88.115 \pm 143.018$   $\chi^2/\text{NDF}$ : 20.8/16

Left Out:  $412.528 \pm 75.408$   $\chi^2/\text{NDF}$ : 51.9/23

Right Out:  $274.340 \pm 129.866$   $\chi^2/\text{NDF}$ : 8.0/17

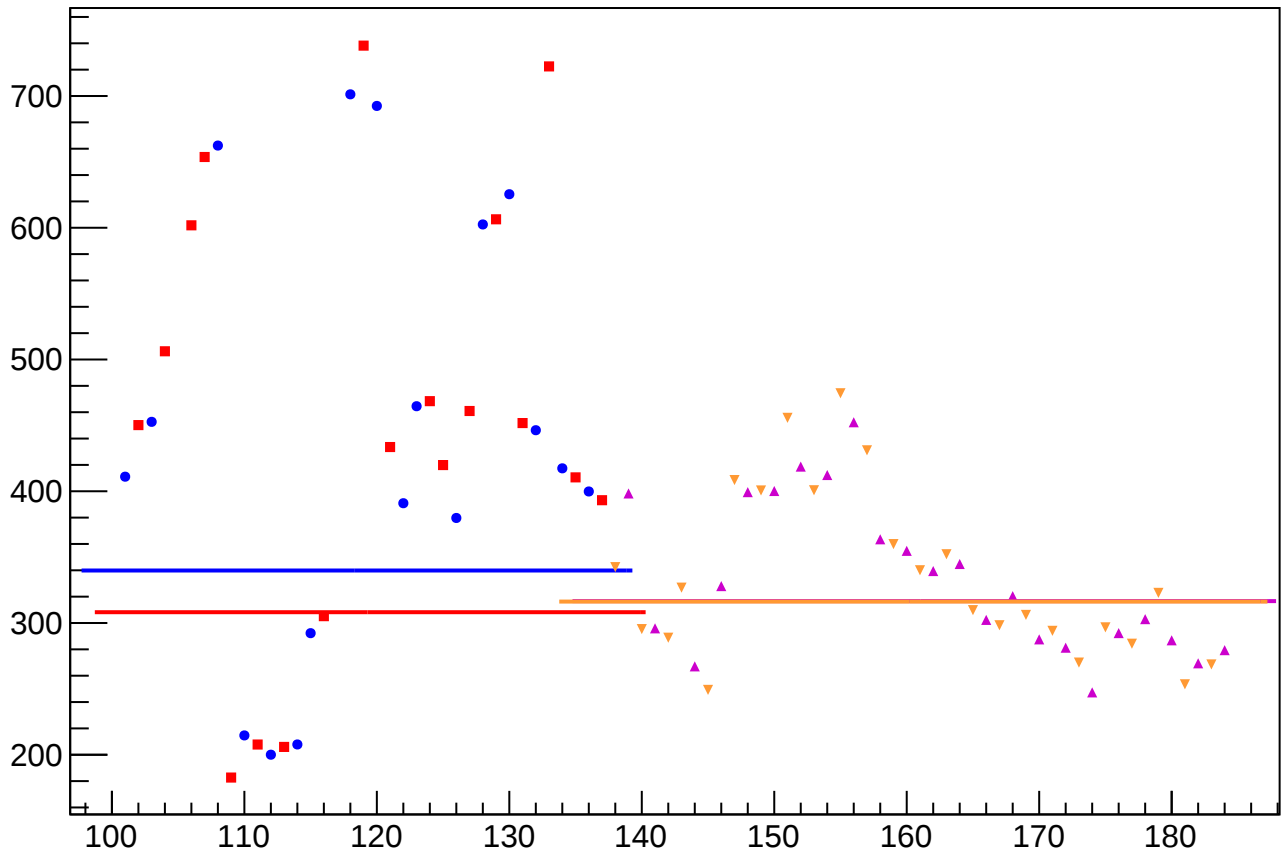
Left In:  $-87.657 \pm 76.572$   $\chi^2/\text{NDF}$ : 27.4/22

+ sign  $341.958 \pm 66.704$   $\chi^2/\text{NDF}$ : 76.8/40

All:  $171.956 \pm 46.901$   $\chi^2/\text{NDF}$ : 130.8/81

- sign  $5.727 \pm 65.960$   $\chi^2/\text{NDF}$ : 41.2/40

# asym\_sam7\_rms vs Slug



Right In: 339.850 $\pm$ 0.101  $\chi^2$ /NDF: 2043522.4/16

Left Out: 316.266 $\pm$ 0.053  $\chi^2$ /NDF:1067506.6/23

Right Out: 308.199 $\pm$ 0.092  $\chi^2$ /NDF: 2698828.8/17

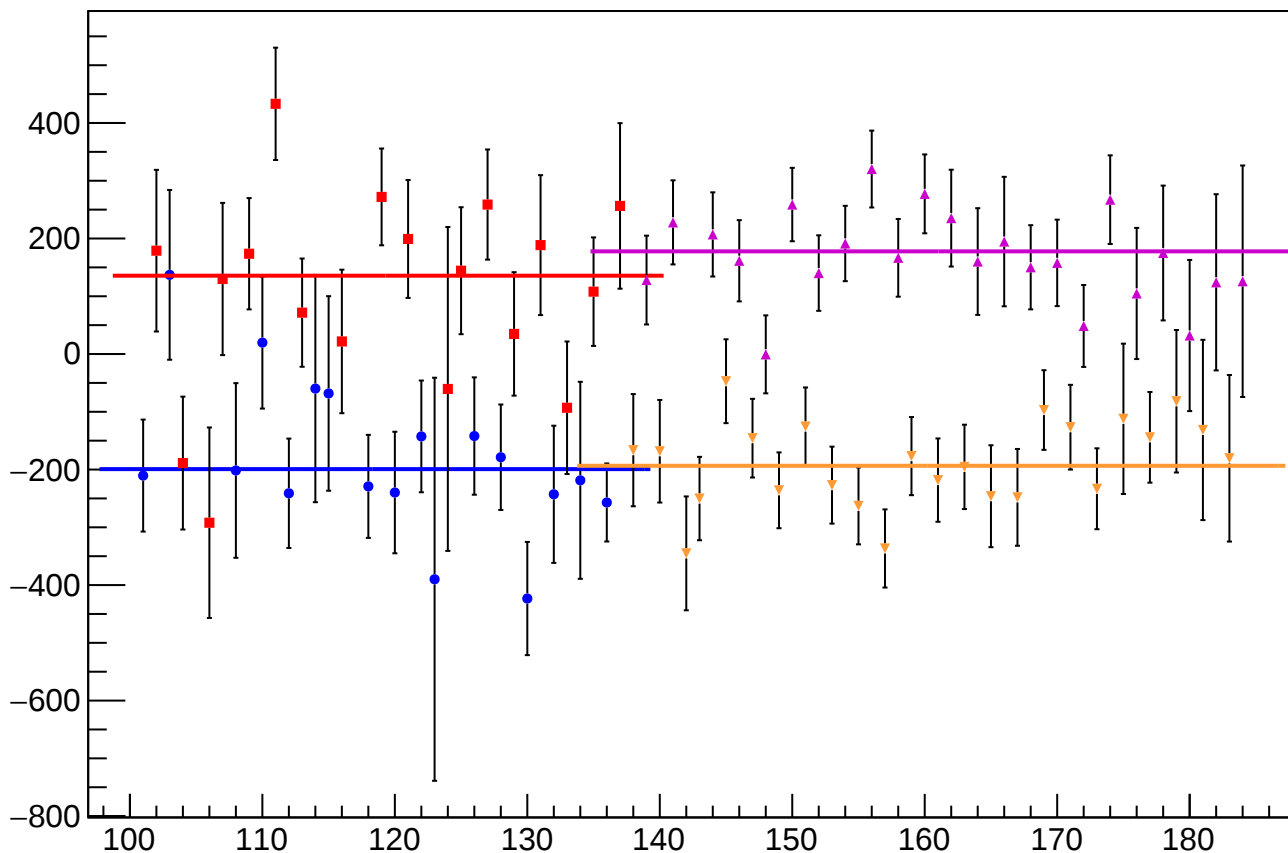
Left In: 316.616 $\pm$ 0.054  $\chi^2$ /NDF:929652.0/22

+ sign 321.396 $\pm$ 0.047  $\chi^2$ /NDF: 3153583.1/40

All: 317.882 $\pm$ 0.033  $\chi^2$ /NDF: 6799280.4/81

- sign 314.445 $\pm$ 0.047  $\chi^2$ /NDF: 3634715.4/40

# dit\_asym\_sam8\_mean vs Slug



Right In: -199.252 $\pm$ 26.515  $\chi^2$ /NDF: 17.6/16

Left Out: -193.458 $\pm$ 16.017  $\chi^2$ /NDF: 20.8/23

Right Out: 135.623 $\pm$ 26.252  $\chi^2$ /NDF: 36.7/17

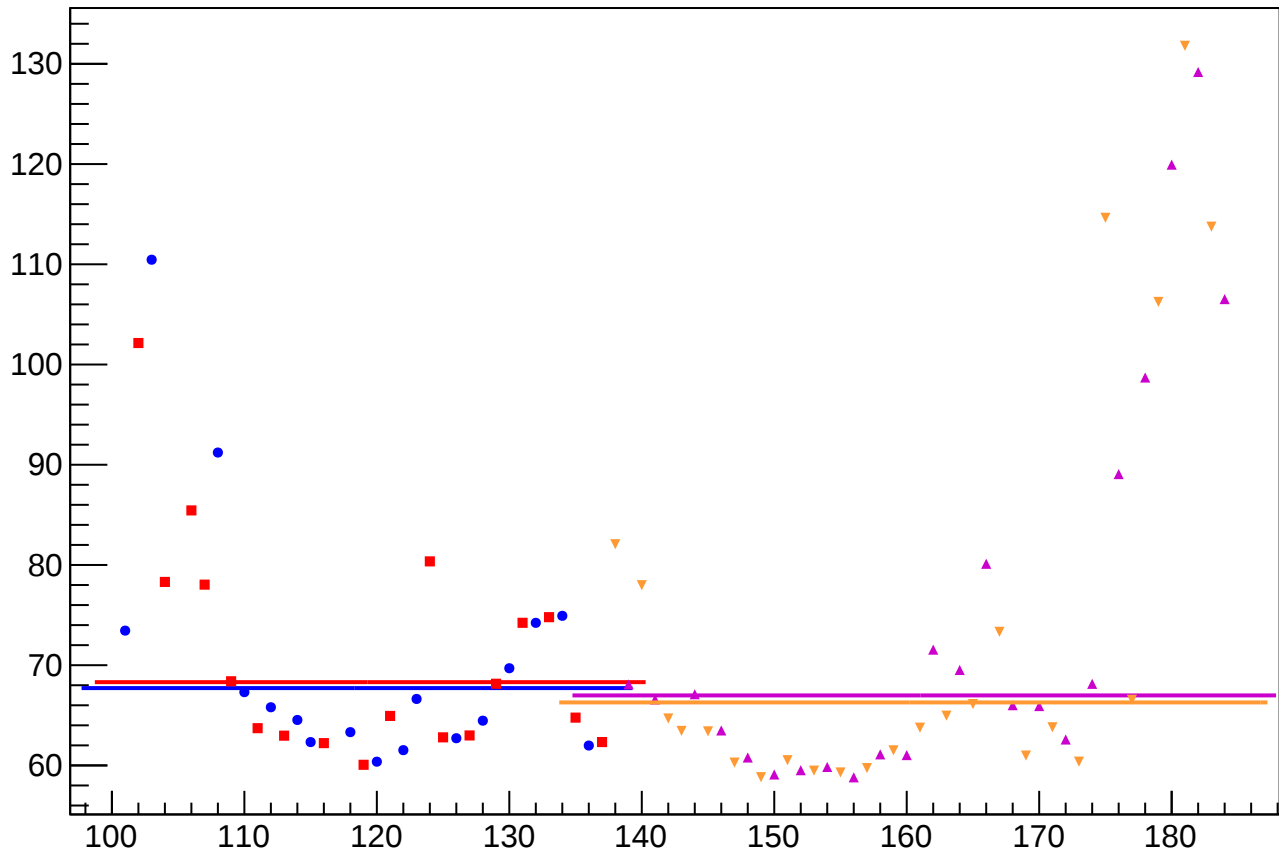
Left In: 177.739 $\pm$ 16.445  $\chi^2$ /NDF: 24.1/22

+ sign -195.007 $\pm$ 13.710  $\chi^2$ /NDF: 38.4/40

All: -17.528 $\pm$ 9.774  $\chi^2$ /NDF: 441.8/81

- sign 165.869 $\pm$ 13.937  $\chi^2$ /NDF: 62.6/40

# dit\_asym\_sam8\_rms vs Slug



Right In: 67.715 $\pm$ 0.019  $\chi^2$ /NDF: 282892.5/16

Left Out: 66.286 $\pm$ 0.011  $\chi^2$ /NDF:1322584.6/23

Right Out: 68.308 $\pm$ 0.019  $\chi^2$ /NDF: 234314.0/17

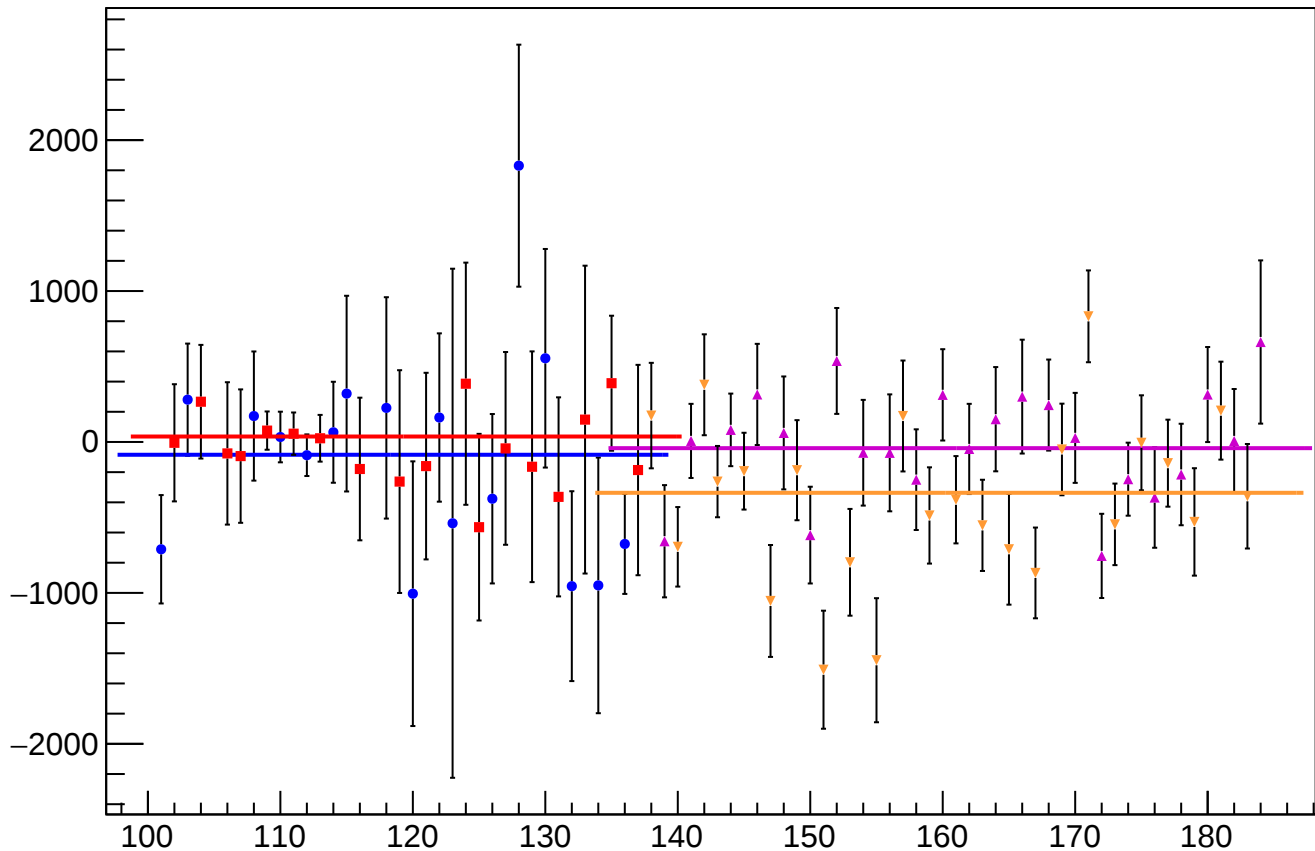
Left In: 66.986 $\pm$ 0.012  $\chi^2$ /NDF:1169016.2/22

+ sign 66.668 $\pm$ 0.010  $\chi^2$ /NDF: 1609737.5/40

All: 67.008 $\pm$ 0.007  $\chi^2$ /NDF: 3019209.9/81

- sign 67.359 $\pm$ 0.010  $\chi^2$ /NDF: 1406975.9/40

# asym\_sam8\_correction\_mean vs Slug



Right In: -84.759 $\pm$ 82.667  $\chi^2$ /NDF: 19.9/16

Left Out: -336.795 $\pm$ 64.070  $\chi^2$ /NDF: 58.7/23

Right Out: 36.132 $\pm$ 69.750  $\chi^2$ /NDF: 3.4/17

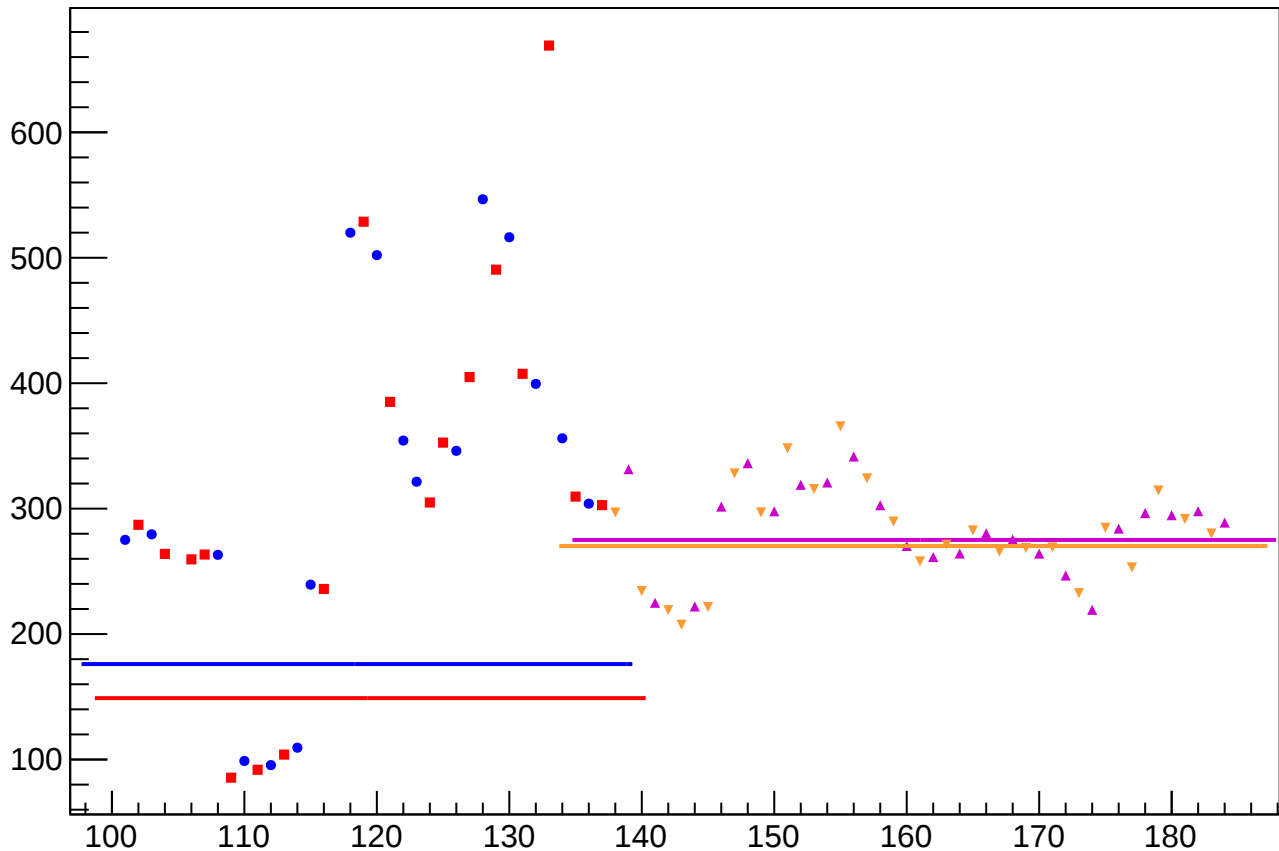
Left In: -41.000 $\pm$ 66.172  $\chi^2$ /NDF: 25.5/22

+ sign -242.215 $\pm$ 50.641  $\chi^2$ /NDF: 84.4/40

All: -116.991 $\pm$ 34.840  $\chi^2$ /NDF: 125.6/81

- sign -4.463 $\pm$ 48.006  $\chi^2$ /NDF: 29.6/40

# asym\_sam8\_correction\_rms vs Slug



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 270.209+/-0.045  $\chi^2/\text{NDF}$ : 740097.2/23

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

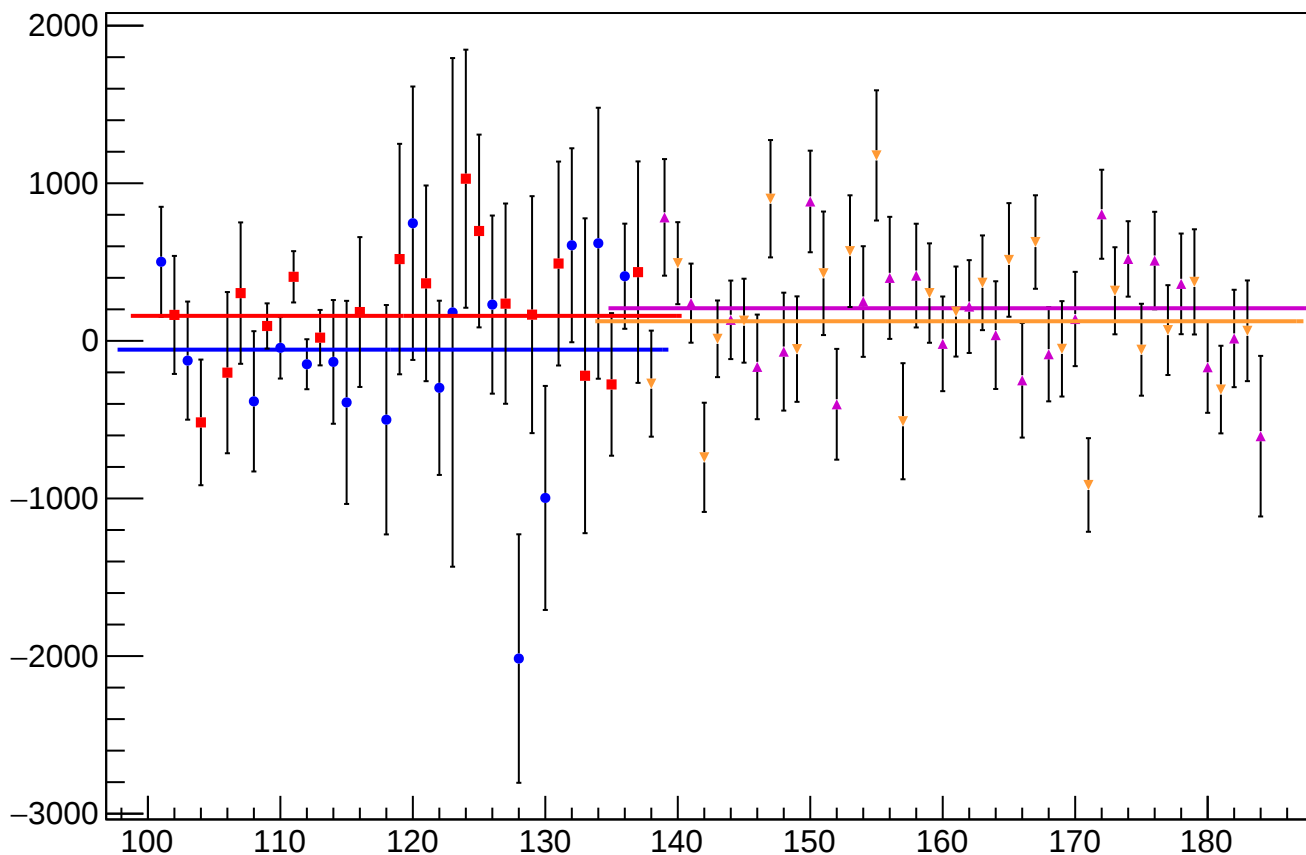
Left In: 275.043+/-0.047  $\chi^2/\text{NDF}$ : 605074.4/22

+ sign 234.892+/-0.036  $\chi^2/\text{NDF}$ : 6583135.1/40

All: 224.576+/-0.025  $\chi^2/\text{NDF}$ : 15557749.6/83

- sign 215.305+/-0.034  $\chi^2/\text{NDF}$ : 8817035.7/40

# asym\_sam8\_mean vs Slug



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $124.425 \pm 63.198$   $\chi^2/\text{NDF}$ : 47.7/23

Right Out:  $158.676 \pm 77.072$   $\chi^2/\text{NDF}$ : 10.4/17

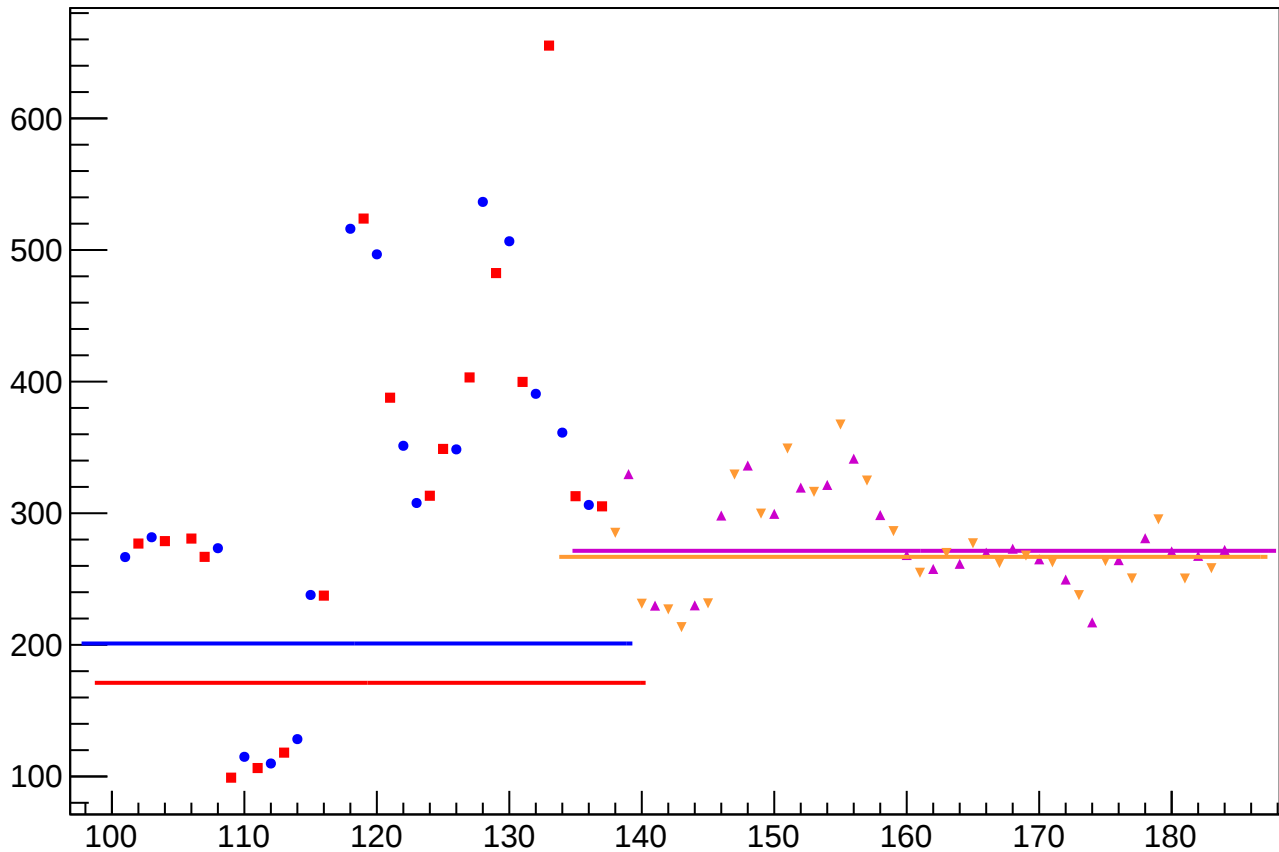
Left In:  $207.047 \pm 65.246$   $\chi^2/\text{NDF}$ : 27.8/22

+ sign  $65.436 \pm 51.828$   $\chi^2/\text{NDF}$ : 67.5/40

All:  $128.569 \pm 35.909$   $\chi^2/\text{NDF}$ : 108.7/81

- sign  $186.853 \pm 49.798$   $\chi^2/\text{NDF}$ : 38.4/40

# asym\_sam8\_rms vs Slug



Right In: 201.036+/-0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 266.851+/-0.045  $\chi^2/\text{NDF}$ : 638385.7/23

Right Out: 171.159+/-0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

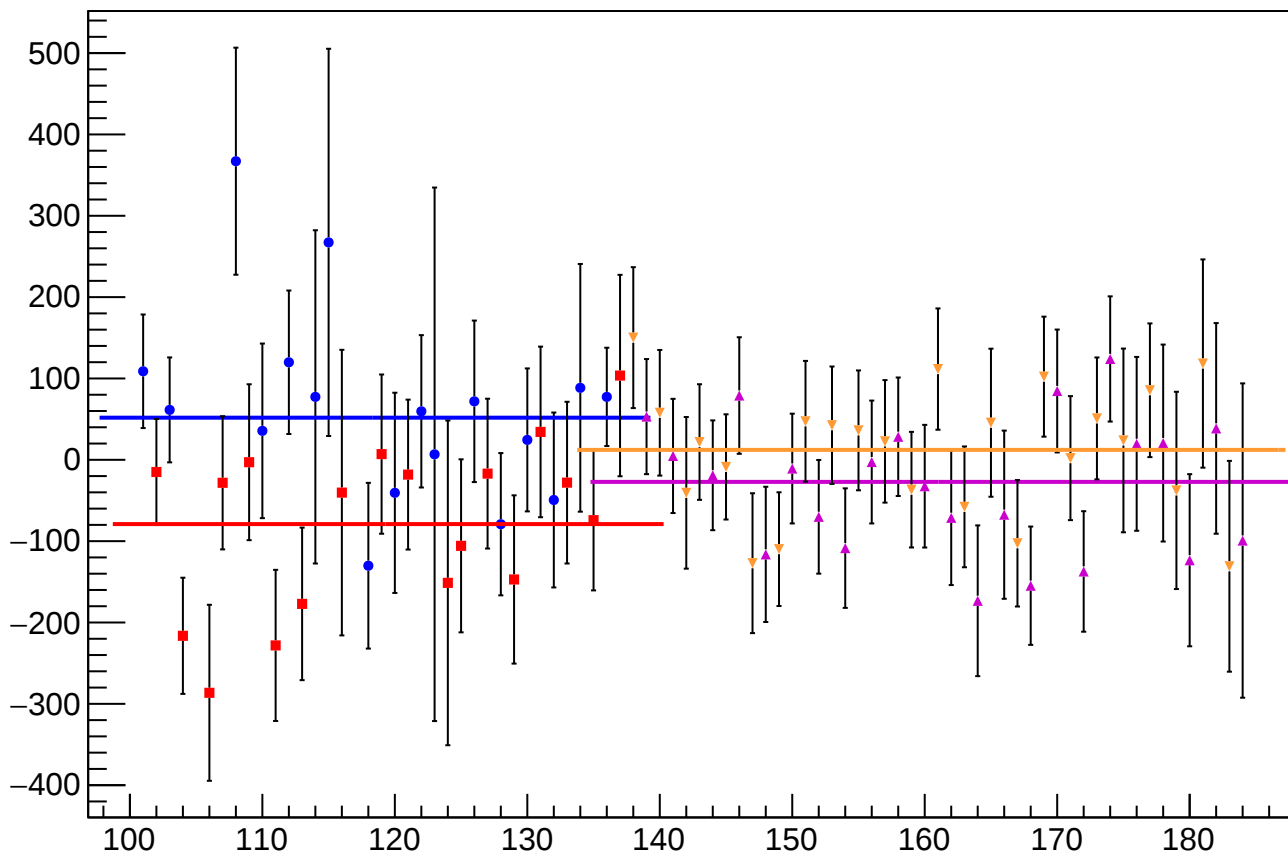
Left In: 271.451+/-0.046  $\chi^2/\text{NDF}$ : 530897.8/22

+ sign 245.300+/-0.037  $\chi^2/\text{NDF}$ : 4781652.0/40

All: 237.127+/-0.025  $\chi^2/\text{NDF}$ : 11446583.8/83

- sign 229.581+/-0.035  $\chi^2/\text{NDF}$ : 6569280.7/40

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 51.799 $\pm$ 23.538  $\chi^2$ /NDF: 14.5/16

Left Out: 12.218 $\pm$ 16.392  $\chi^2$ /NDF: 19.6/23

Right Out: -79.008 $\pm$ 22.499  $\chi^2$ /NDF: 19.0/17

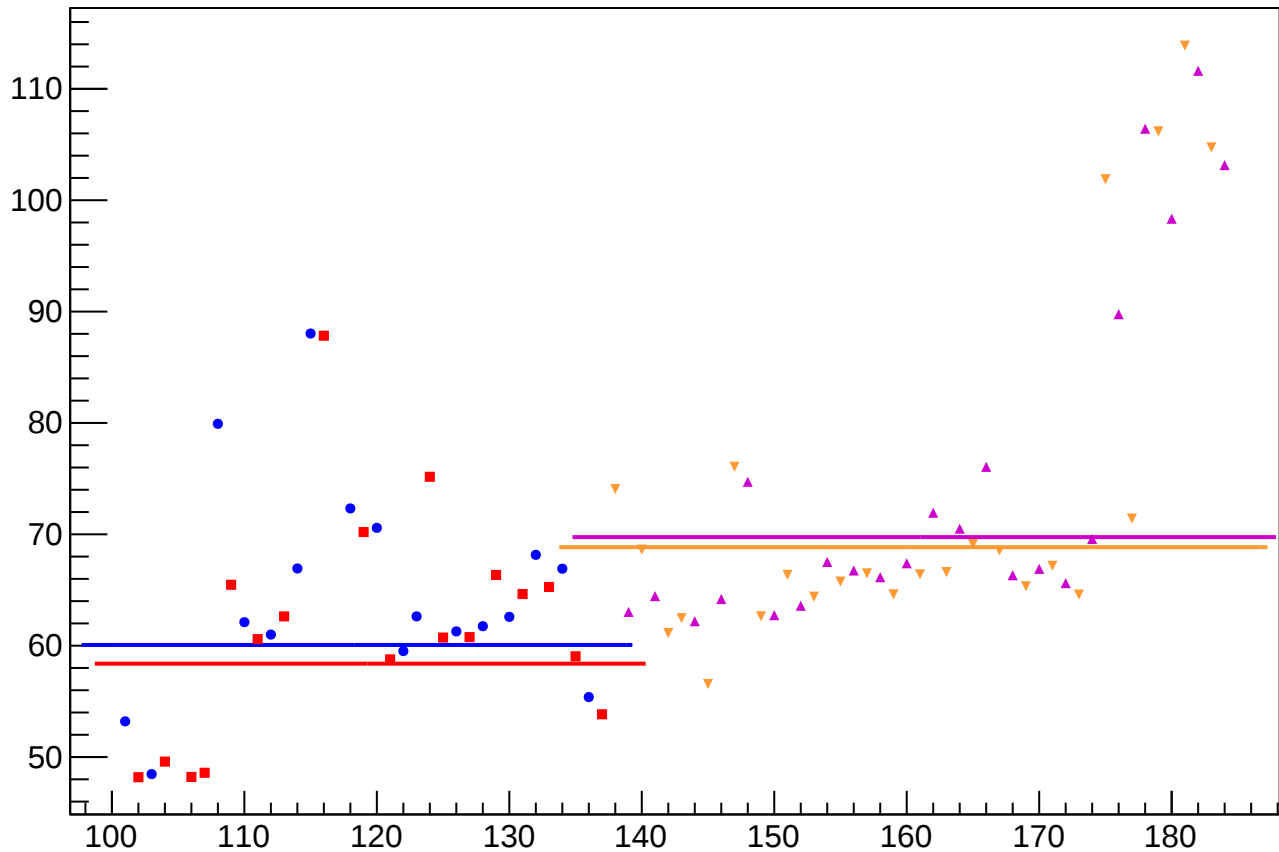
Left In: -27.136 $\pm$ 16.869  $\chi^2$ /NDF: 23.0/22

+ sign 25.145 $\pm$ 13.452  $\chi^2$ /NDF: 36.1/40

All: -10.210 $\pm$ 9.528  $\chi^2$ /NDF: 95.4/81

- sign -45.802 $\pm$ 13.497  $\chi^2$ /NDF: 45.4/40

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In:  $60.065 \pm 0.017$   $\chi^2/\text{NDF}$ : 229098.7/16

Left Out:  $68.846 \pm 0.012$   $\chi^2/\text{NDF}$ : 941029.2/23

Right Out:  $58.387 \pm 0.016$   $\chi^2/\text{NDF}$ : 275017.2/17

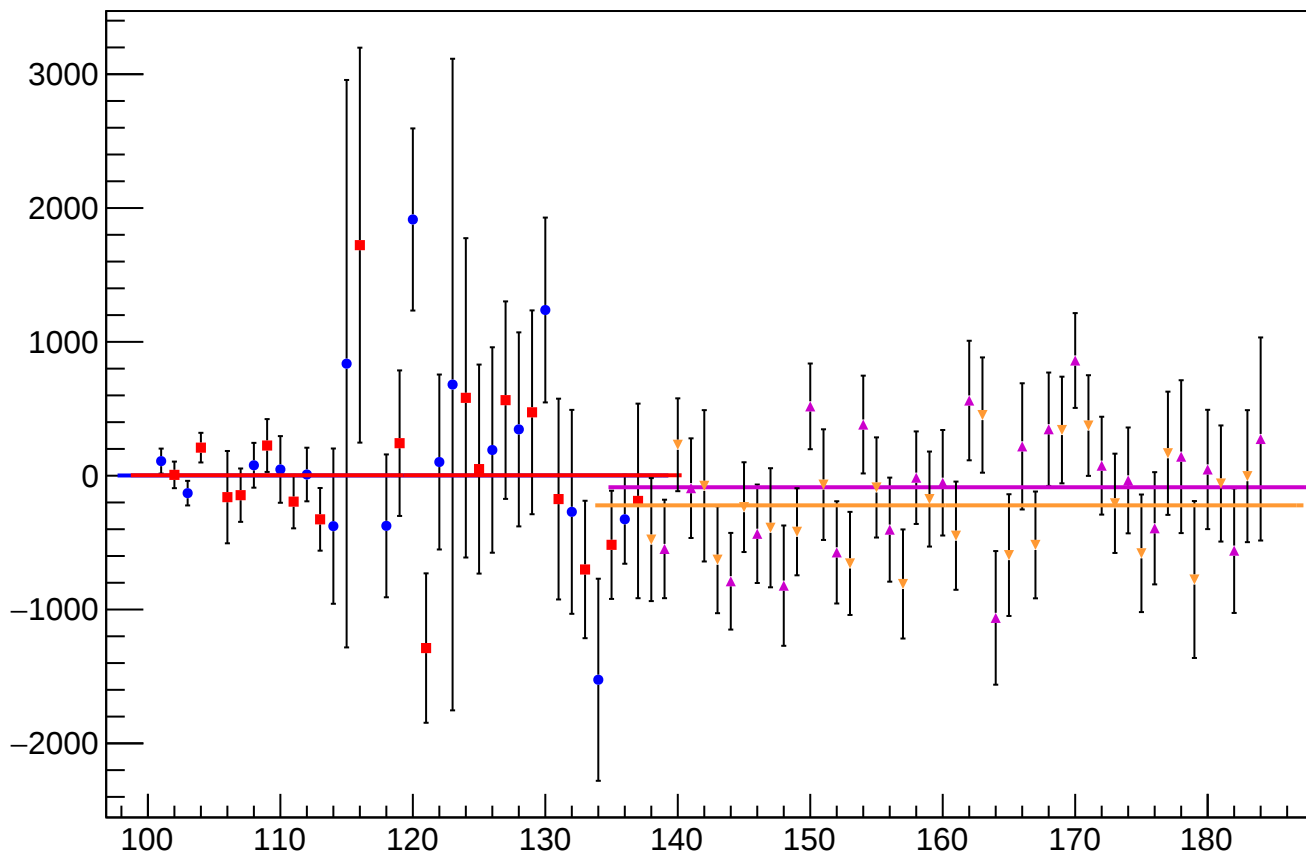
Left In:  $69.750 \pm 0.012$   $\chi^2/\text{NDF}$ : 813672.8/22

+ sign  $65.978 \pm 0.010$   $\chi^2/\text{NDF}$ : 1357530.5/40

All:  $65.820 \pm 0.007$   $\chi^2/\text{NDF}$ : 2773348.9/81

- sign  $65.661 \pm 0.010$   $\chi^2/\text{NDF}$ : 1415265.6/40

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In:  $1.581 \pm 54.284$   $\chi^2/\text{NDF}$ : 21.4/16

Left Out:  $-221.530 \pm 83.045$   $\chi^2/\text{NDF}$ : 18.4/23

Right Out:  $3.242 \pm 56.611$   $\chi^2/\text{NDF}$ : 20.2/17

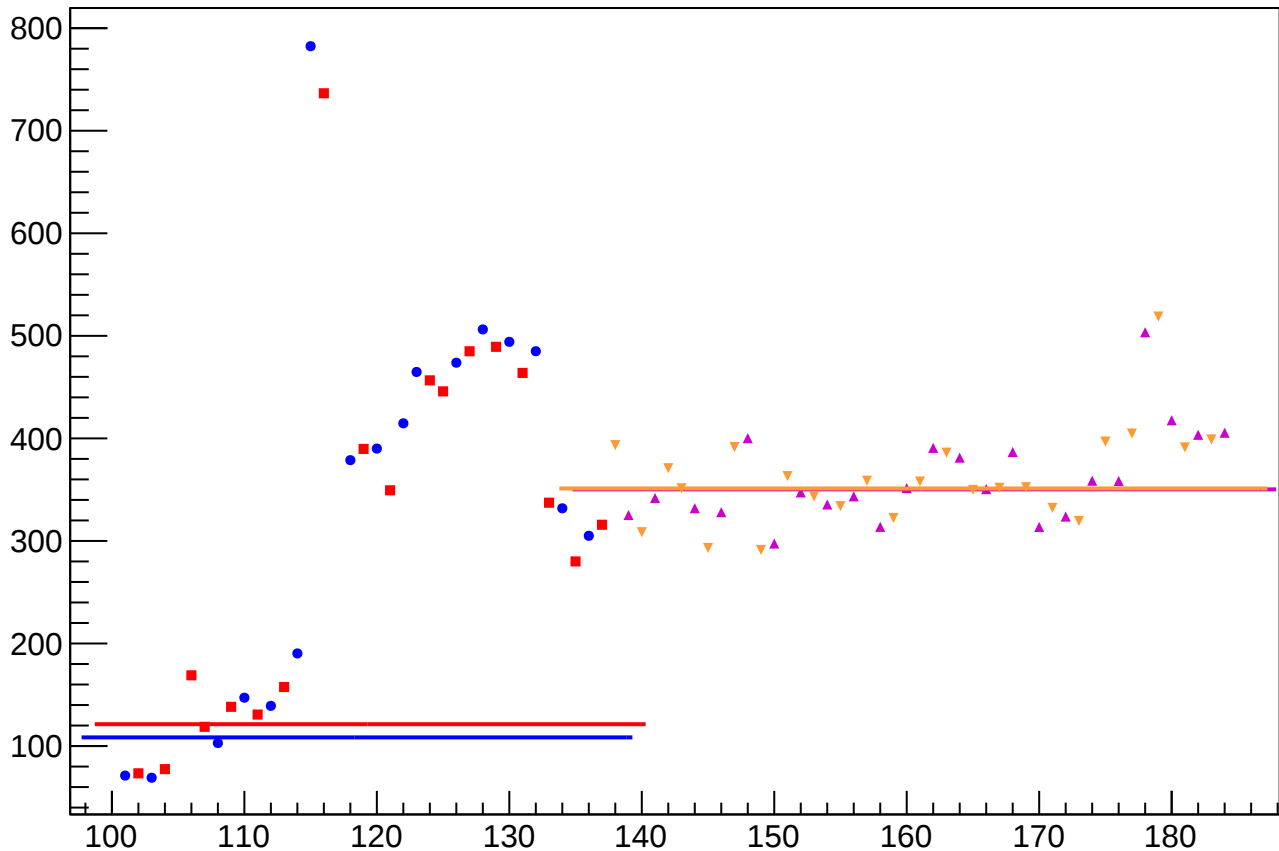
Left In:  $-86.274 \pm 84.158$   $\chi^2/\text{NDF}$ : 33.3/22

+ sign  $-65.211 \pm 45.438$   $\chi^2/\text{NDF}$ : 44.8/40

All:  $-45.602 \pm 32.659$   $\chi^2/\text{NDF}$ : 99.5/81

- sign  $-24.645 \pm 46.973$   $\chi^2/\text{NDF}$ : 54.3/40

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 108.445 $\pm$ 0.038  $\chi^2$ /NDF: 5404107.9/16

Left Out: 351.177 $\pm$ 0.059  $\chi^2$ /NDF: 495981.2/23

Right Out: 121.303 $\pm$ 0.040  $\chi^2$ /NDF: 4731568.2/17

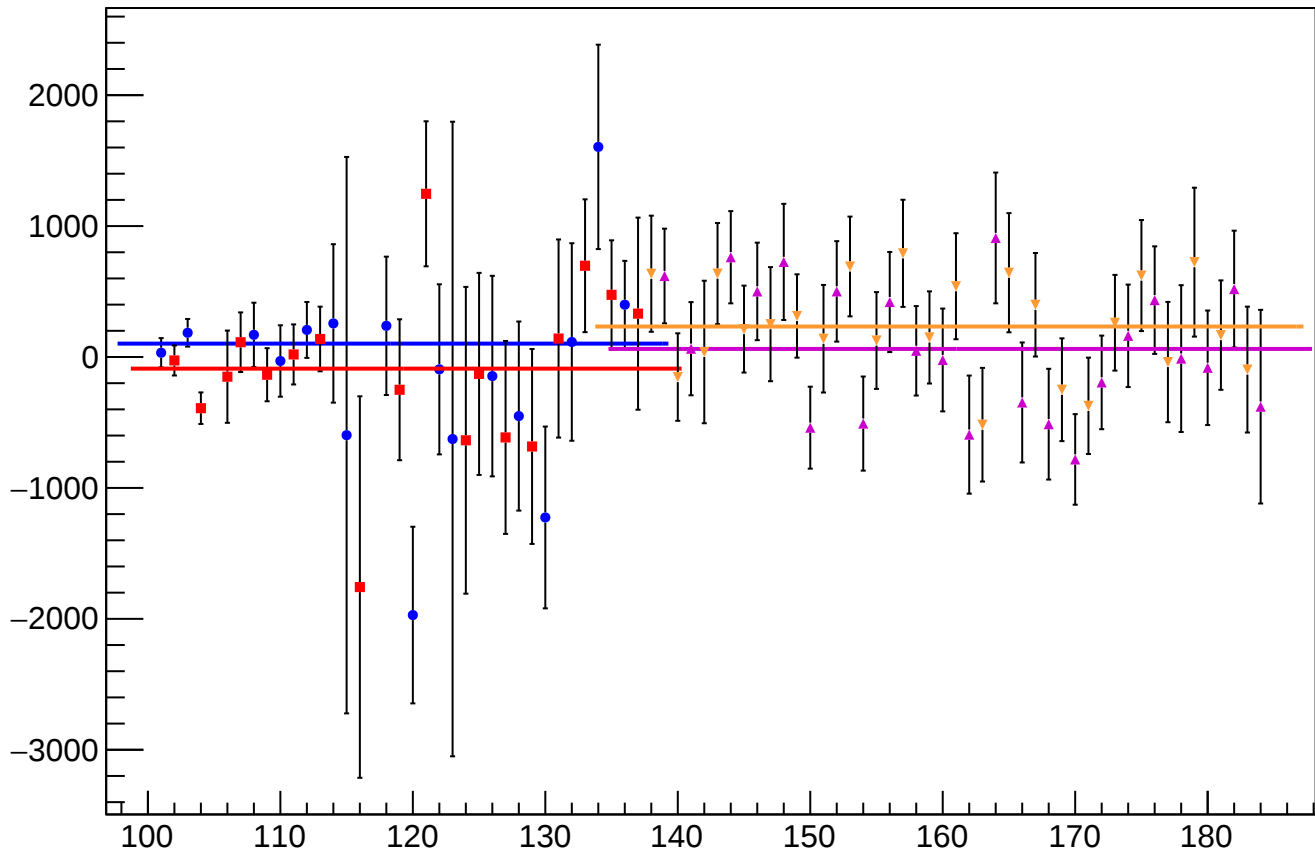
Left In: 350.292 $\pm$ 0.060  $\chi^2$ /NDF: 427103.1/22

+ sign 181.111 $\pm$ 0.032  $\chi^2$ /NDF: 17871474.1/40

All: 186.684 $\pm$ 0.023  $\chi^2$ /NDF: 33286477.5/83

- sign 192.640 $\pm$ 0.033  $\chi^2$ /NDF: 15352762.4/40

# asym\_sam\_15\_avg\_mean vs Slug



Right In:  $102.221 \pm 63.127$   $\chi^2/\text{NDF}$ : 20.3/16

Left Out:  $232.807 \pm 81.673$   $\chi^2/\text{NDF}$ : 18.2/23

Right Out:  $-88.841 \pm 62.230$   $\chi^2/\text{NDF}$ : 21.7/17

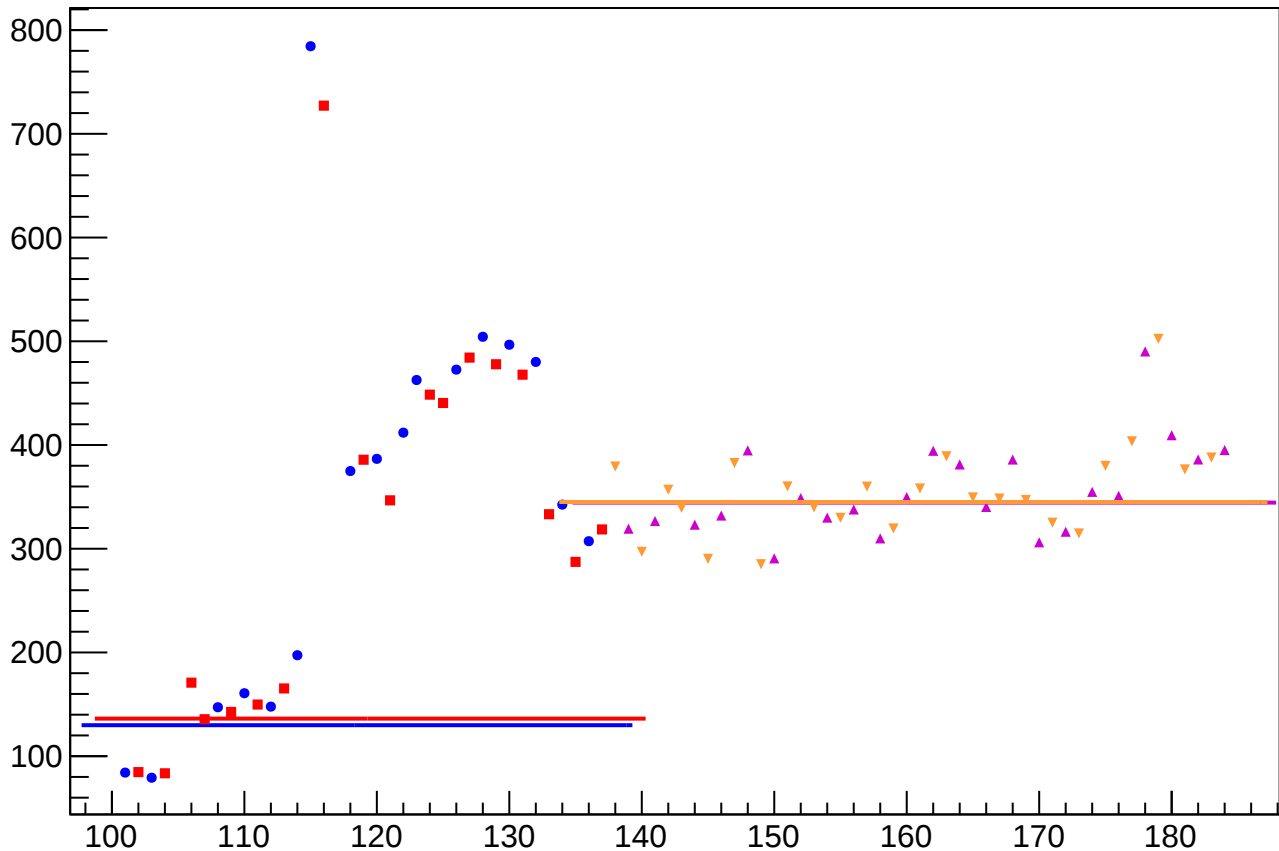
Left In:  $61.730 \pm 82.841$   $\chi^2/\text{NDF}$ : 34.9/22

+ sign  $151.059 \pm 49.947$   $\chi^2/\text{NDF}$ : 40.0/40

All:  $57.911 \pm 35.250$   $\chi^2/\text{NDF}$ : 105.7/81

- sign  $-34.524 \pm 49.756$   $\chi^2/\text{NDF}$ : 58.8/40

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.884+/-0.045     $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 345.040+/-0.058     $\chi^2/\text{NDF}$ : 483383.1/23

Right Out: 136.225+/-0.044     $\chi^2/\text{NDF}$ : 4282800.2/17

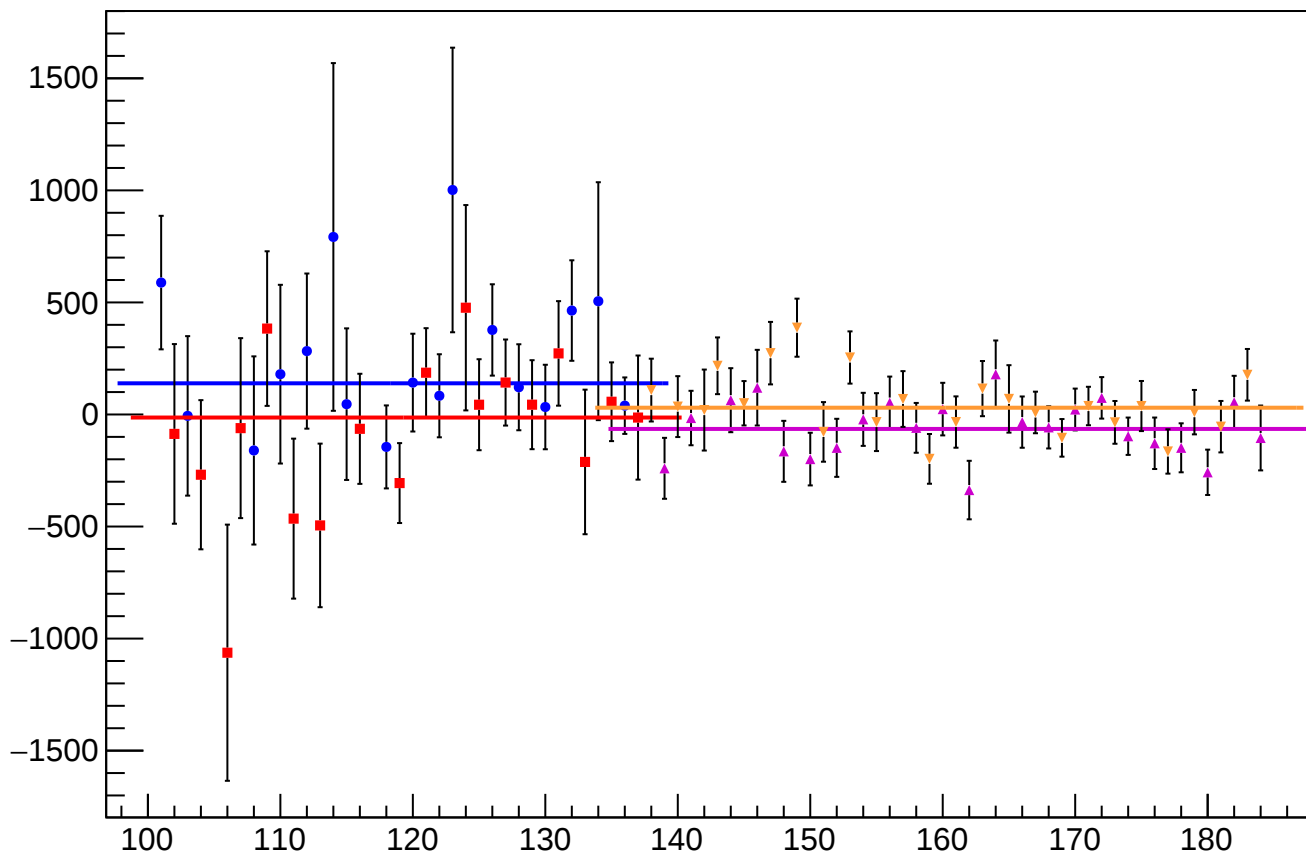
Left In: 344.475+/-0.059     $\chi^2/\text{NDF}$ : 433401.7/22

+ sign 210.350+/-0.035     $\chi^2/\text{NDF}$ : 14001681.2/40

All: 210.851+/-0.025     $\chi^2/\text{NDF}$ : 26797841.6/83

- sign 211.349+/-0.035     $\chi^2/\text{NDF}$ : 12795758.8/40

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 139.093 $\pm$ 57.982  $\chi^2$ /NDF: 13.1/16

Left Out: 30.196 $\pm$ 23.108  $\chi^2$ /NDF:32.2/23

Right Out: -13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

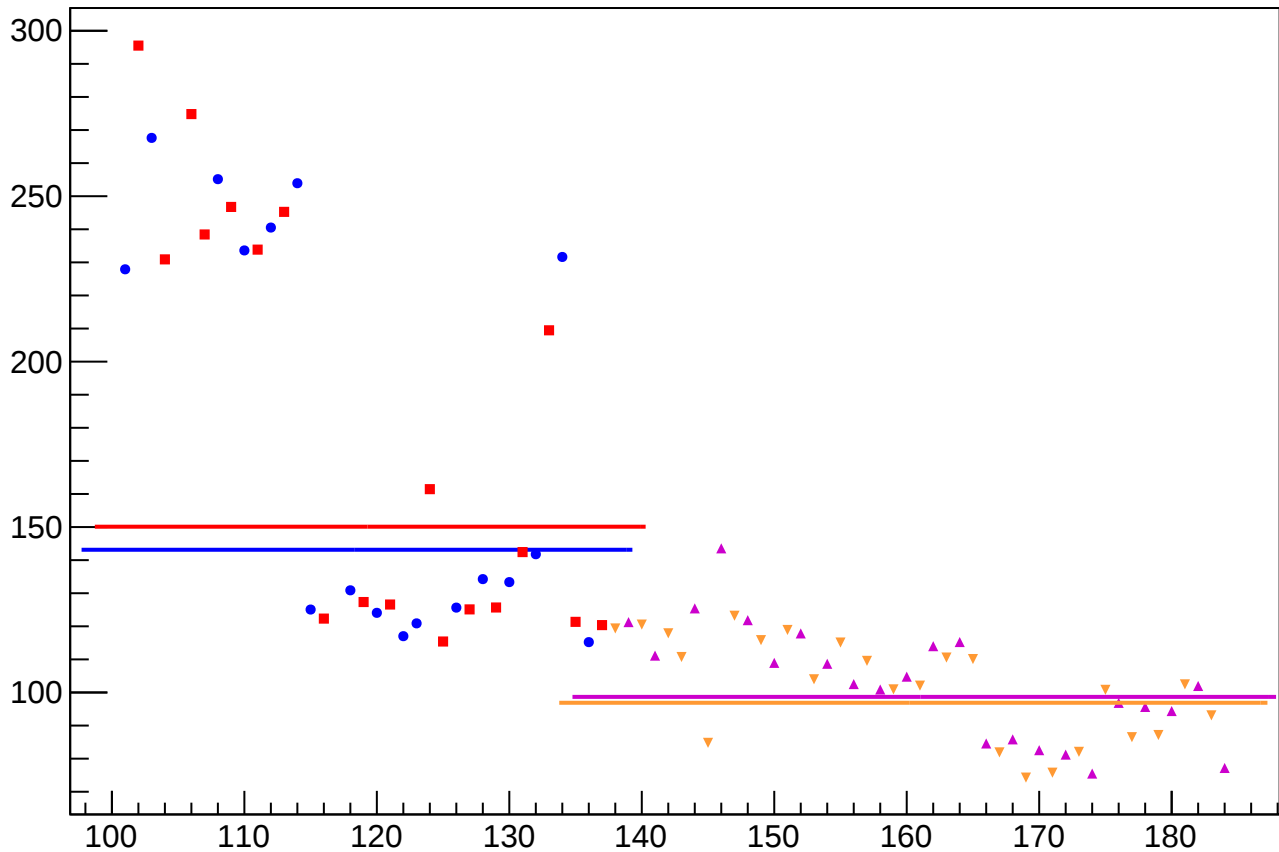
Left In: -64.518 $\pm$ 24.006  $\chi^2$ /NDF:23.8/22

+ sign 45.122 $\pm$ 21.466  $\chi^2$ /NDF: 48.3/40

All: -4.258 $\pm$ 15.463  $\chi^2$ /NDF: 100.2/81

- sign -57.523 $\pm$ 22.295  $\chi^2$ /NDF: 40.8/40

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 96.892 $\pm$ 0.016  $\chi^2$ /NDF: 894066.1/23

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

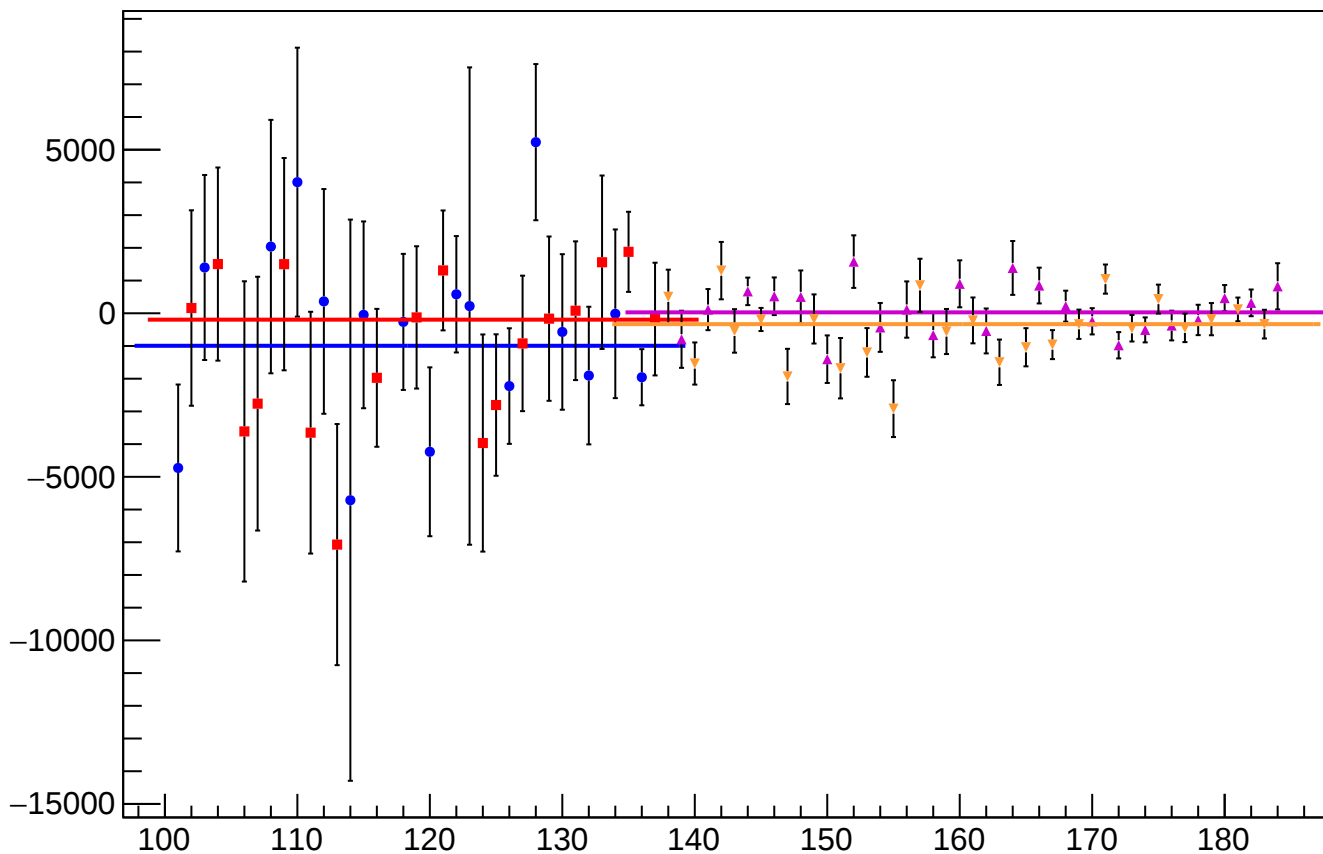
Left In: 98.672 $\pm$ 0.017  $\chi^2$ /NDF: 883912.4/22

+ sign 103.231 $\pm$ 0.015  $\chi^2$ /NDF: 3093342.2/40

All: 104.440 $\pm$ 0.011  $\chi^2$ /NDF: 6585640.7/81

- sign 105.744 $\pm$ 0.016  $\chi^2$ /NDF: 3479110.9/40

# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In: -993.785 $\pm$ 516.463  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: -332.272 $\pm$ 110.352  $\chi^2/\text{NDF}$ : 47.1/23

Right Out: -195.049 $\pm$ 543.821  $\chi^2/\text{NDF}$ : 13.5/17

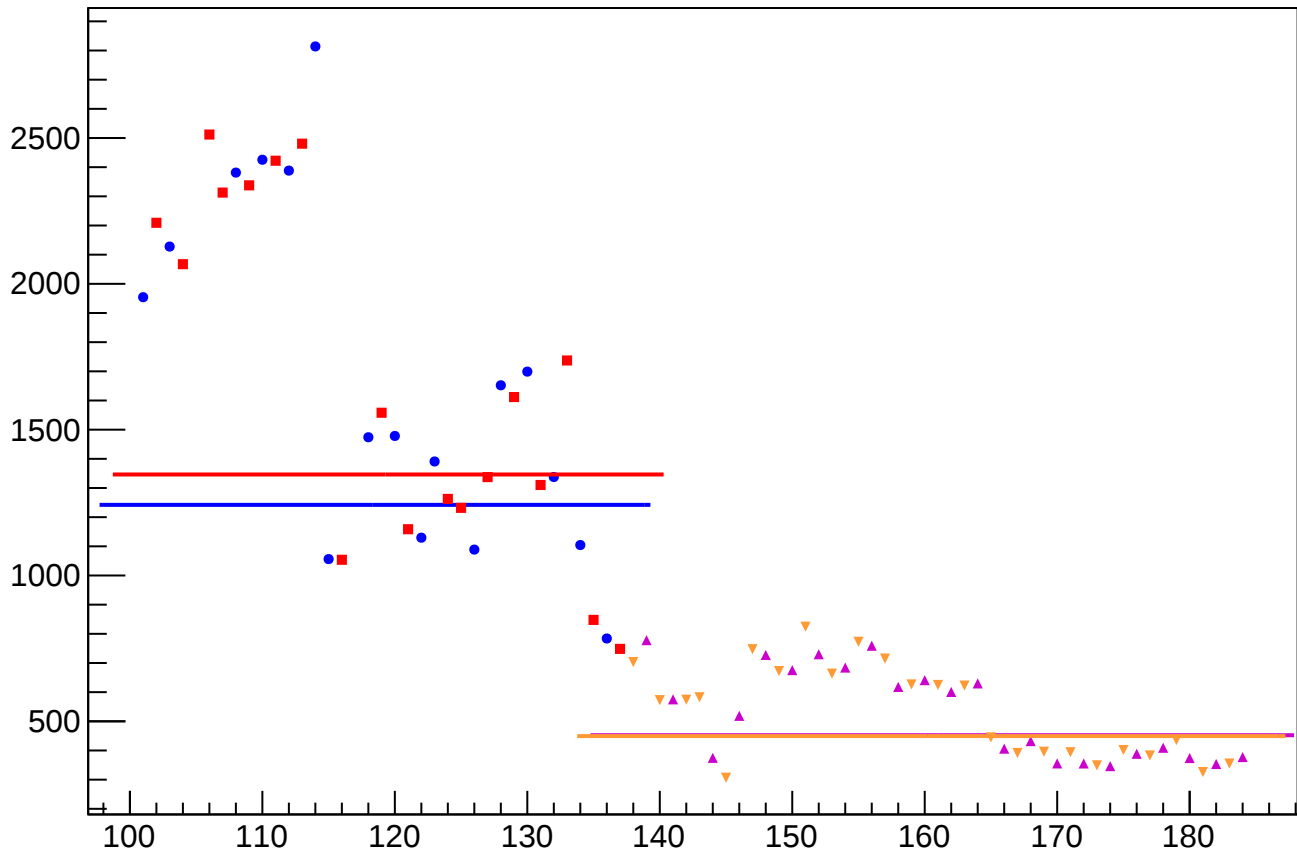
Left In: 27.826 $\pm$ 112.415  $\chi^2/\text{NDF}$ : 33.3/22

+ sign -361.154 $\pm$ 107.916  $\chi^2/\text{NDF}$ : 65.6/40

All: -175.014 $\pm$ 77.065  $\chi^2/\text{NDF}$ : 118.7/81

- sign 18.693 $\pm$ 110.088  $\chi^2/\text{NDF}$ : 47.0/40

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 449.365 $\pm$ 0.078  $\chi^2$ /NDF: 3113871.5/23

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

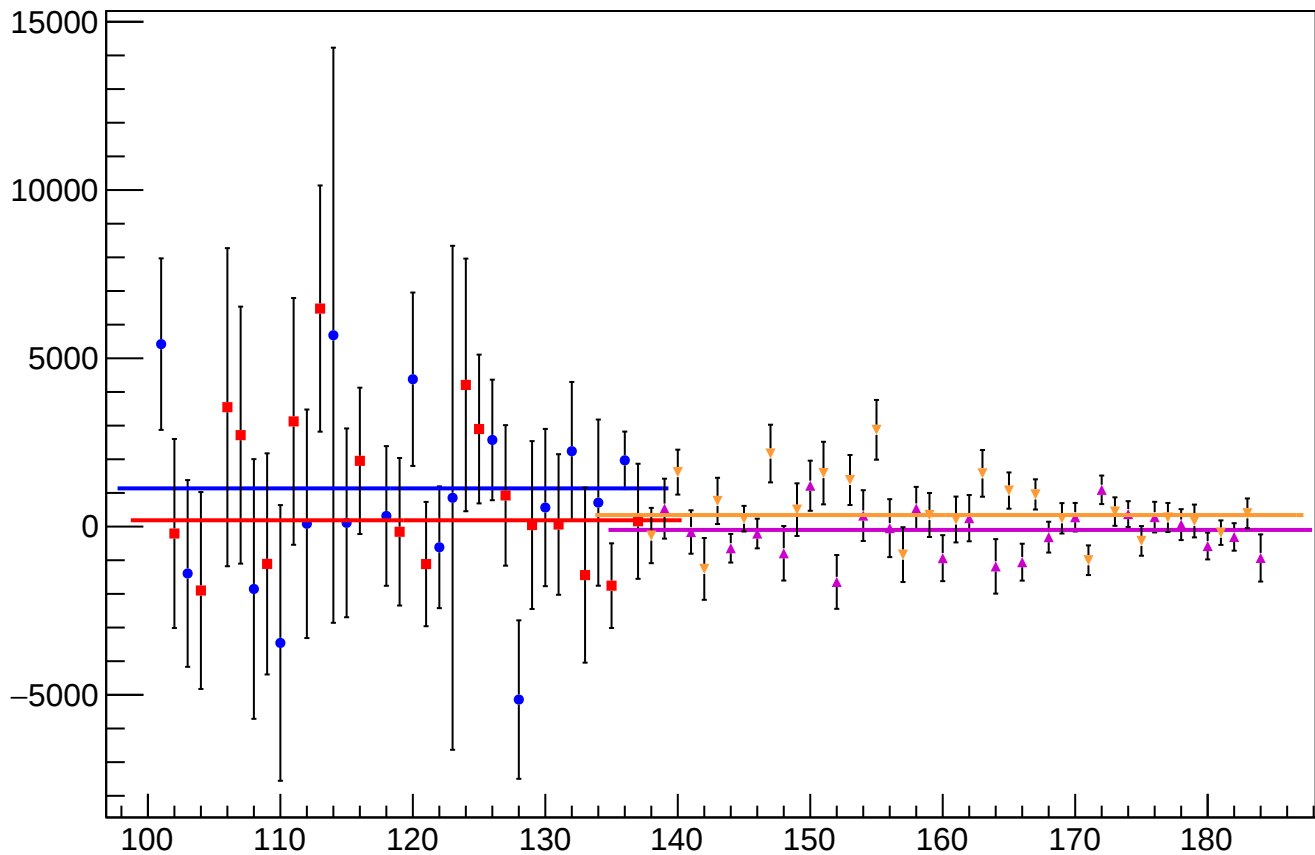
Left In: 452.323 $\pm$ 0.079  $\chi^2$ /NDF: 2675264.3/22

+ sign 483.980 $\pm$ 0.076  $\chi^2$ /NDF: 9388402.9/40

All: 486.420 $\pm$ 0.054  $\chi^2$ /NDF: 19058581.2/83

- sign 488.959 $\pm$ 0.078  $\chi^2$ /NDF: 9668092.0/40

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 342.585 $\pm$ 111.335  $\chi^2$ /NDF: 47.8/23

Right Out: 187.508 $\pm$ 548.191  $\chi^2$ /NDF: 12.0/17

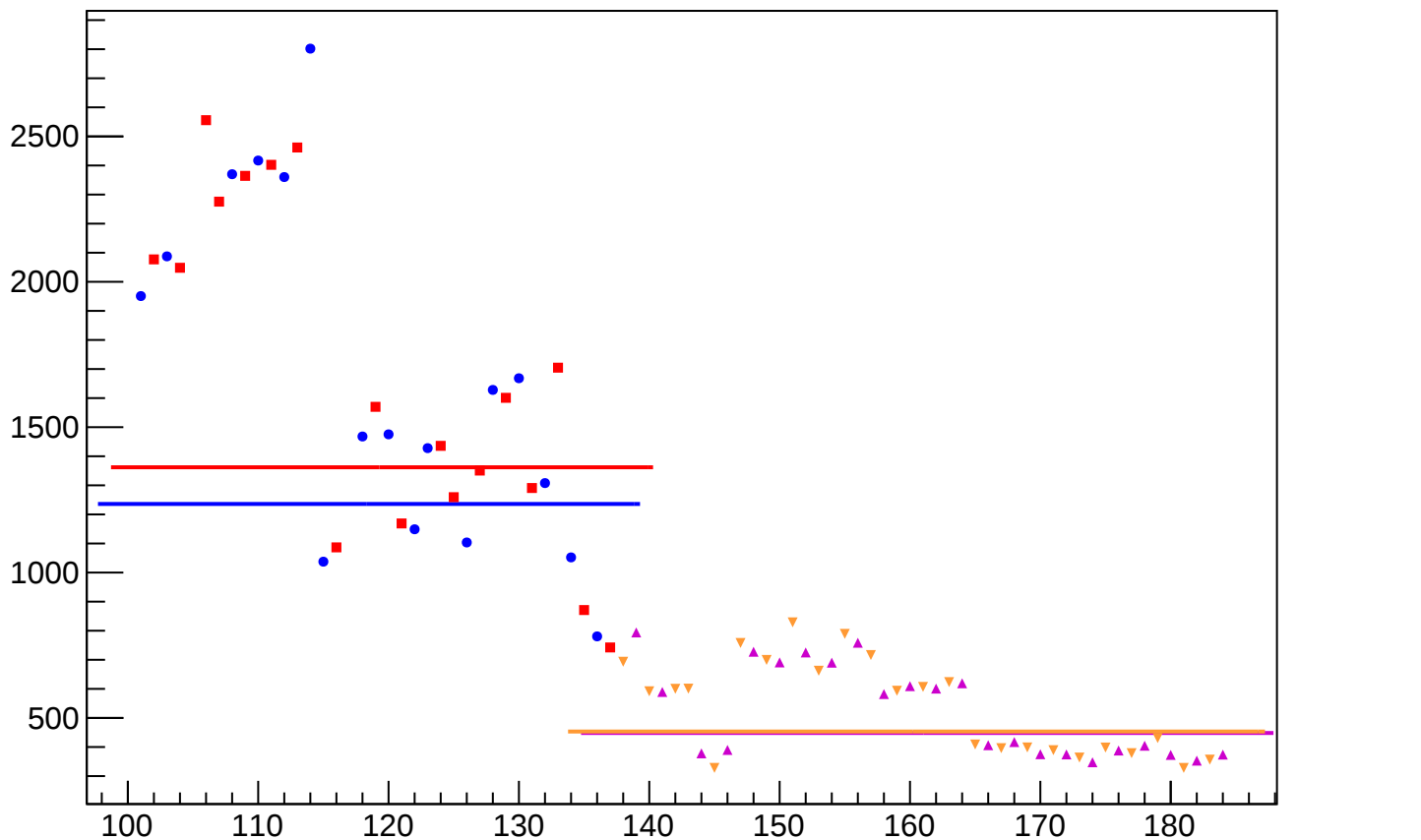
Left In: -99.475 $\pm$ 111.475  $\chi^2$ /NDF: 32.1/22

+ sign 378.138 $\pm$ 108.810  $\chi^2$ /NDF: 67.9/40

All: 145.948 $\pm$ 77.091  $\chi^2$ /NDF: 121.3/81

- sign -88.079 $\pm$ 109.239  $\chi^2$ /NDF: 44.3/40

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 453.298+/-0.079  $\chi^2/\text{NDF}$ : 2993489.5/23

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

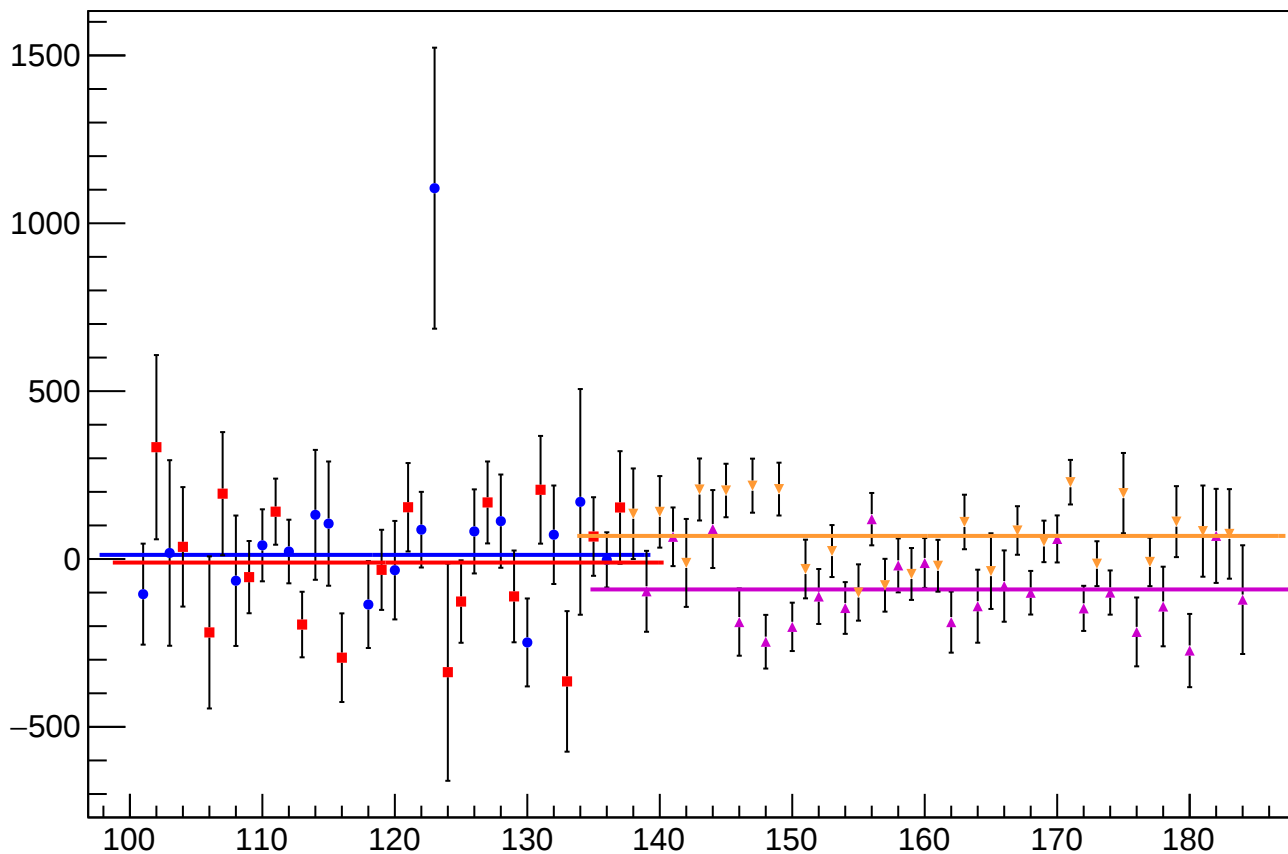
Left In: 448.238+/-0.079  $\chi^2/\text{NDF}$ : 2563455.5/22

+ sign 488.403+/-0.077  $\chi^2/\text{NDF}$ : 9172089.2/40

All: 486.472+/-0.055  $\chi^2/\text{NDF}$ : 18783366.1/83

- sign 484.527+/-0.077  $\chi^2/\text{NDF}$ : 9610013.1/40

# dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In:  $12.308 \pm 33.228$   $\chi^2/\text{NDF}$ : 15.4/16

Left Out:  $68.809 \pm 17.346$   $\chi^2/\text{NDF}$ : 36.5/23

Right Out:  $-10.591 \pm 32.606$   $\chi^2/\text{NDF}$ : 26.7/17

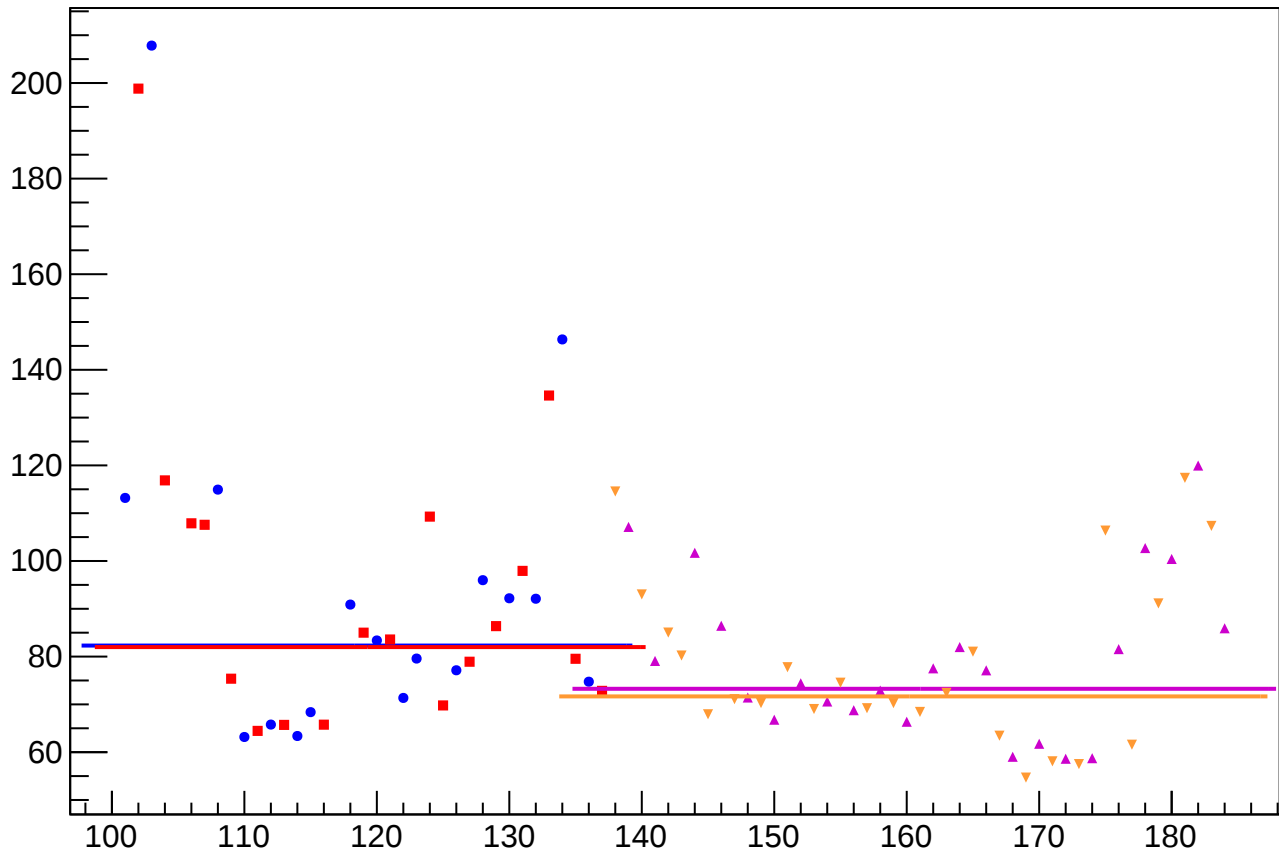
Left In:  $-90.640 \pm 18.057$   $\chi^2/\text{NDF}$ : 35.0/22

+ sign  $56.709 \pm 15.377$   $\chi^2/\text{NDF}$ : 54.1/40

All:  $-5.841 \pm 11.018$   $\chi^2/\text{NDF}$ : 154.5/81

- sign  $-71.852 \pm 15.796$   $\chi^2/\text{NDF}$ : 66.4/40

dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 82.306+/-0.023  $\chi^2$ /NDF: 868742.4/16

Left Out: 71.669+/-0.012  $\chi^2$ /NDF:1354557.0/23

Right Out: 81.987+/-0.023  $\chi^2$ /NDF: 853217.2/17

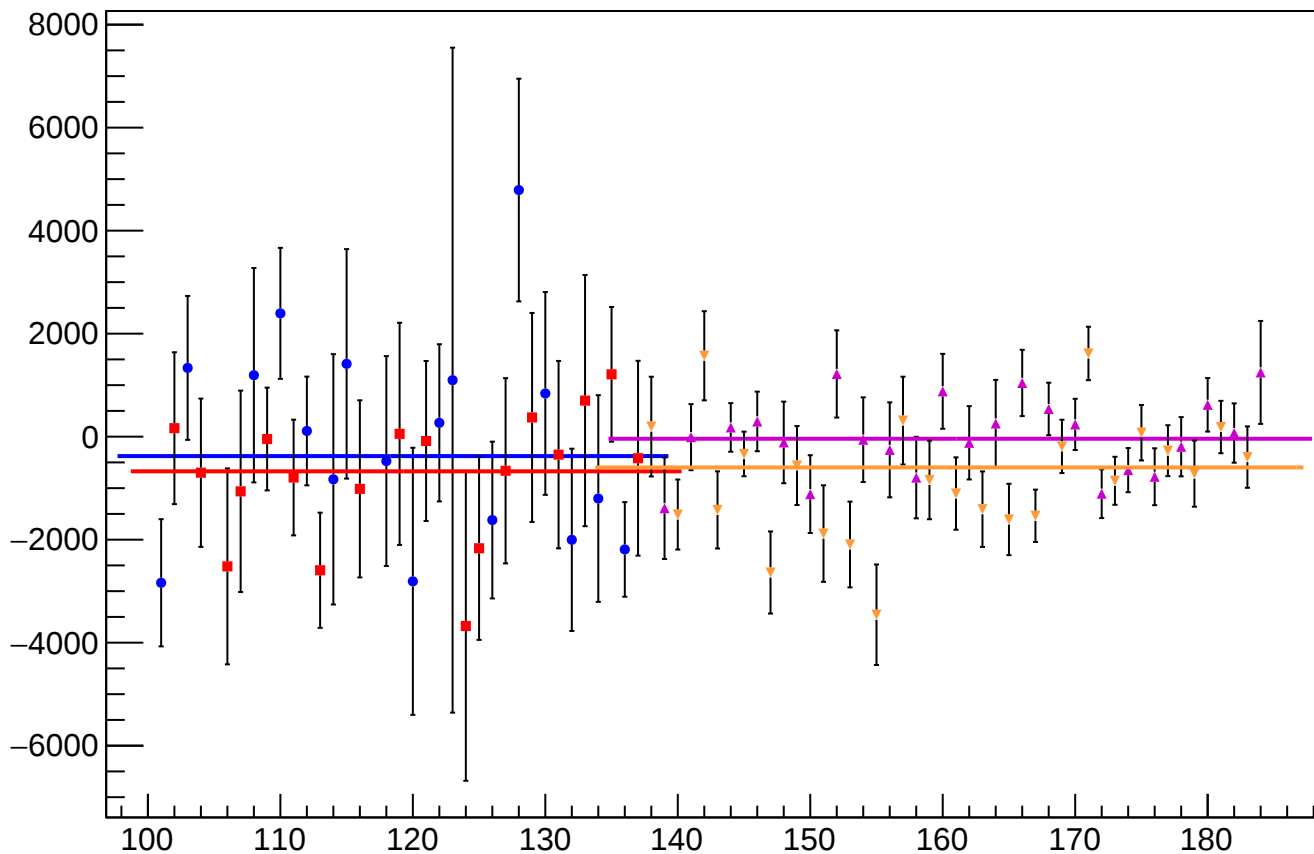
Left In: 73.261+/-0.013  $\chi^2$ /NDF:1222046.2/22

+ sign 73.947+/-0.011  $\chi^2$ /NDF: 2384362.7/40

All: 74.610+/-0.008  $\chi^2$ /NDF: 4576891.1/81

- sign 75.309+/-0.011  $\chi^2$ /NDF: 2184889.0/40

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}$ : 24.5/16

Left Out:  $-597.408 \pm 128.810$   $\chi^2/\text{NDF}$ : 62.8/23

Right Out:  $-673.192 \pm 368.624$   $\chi^2/\text{NDF}$ : 9.4/17

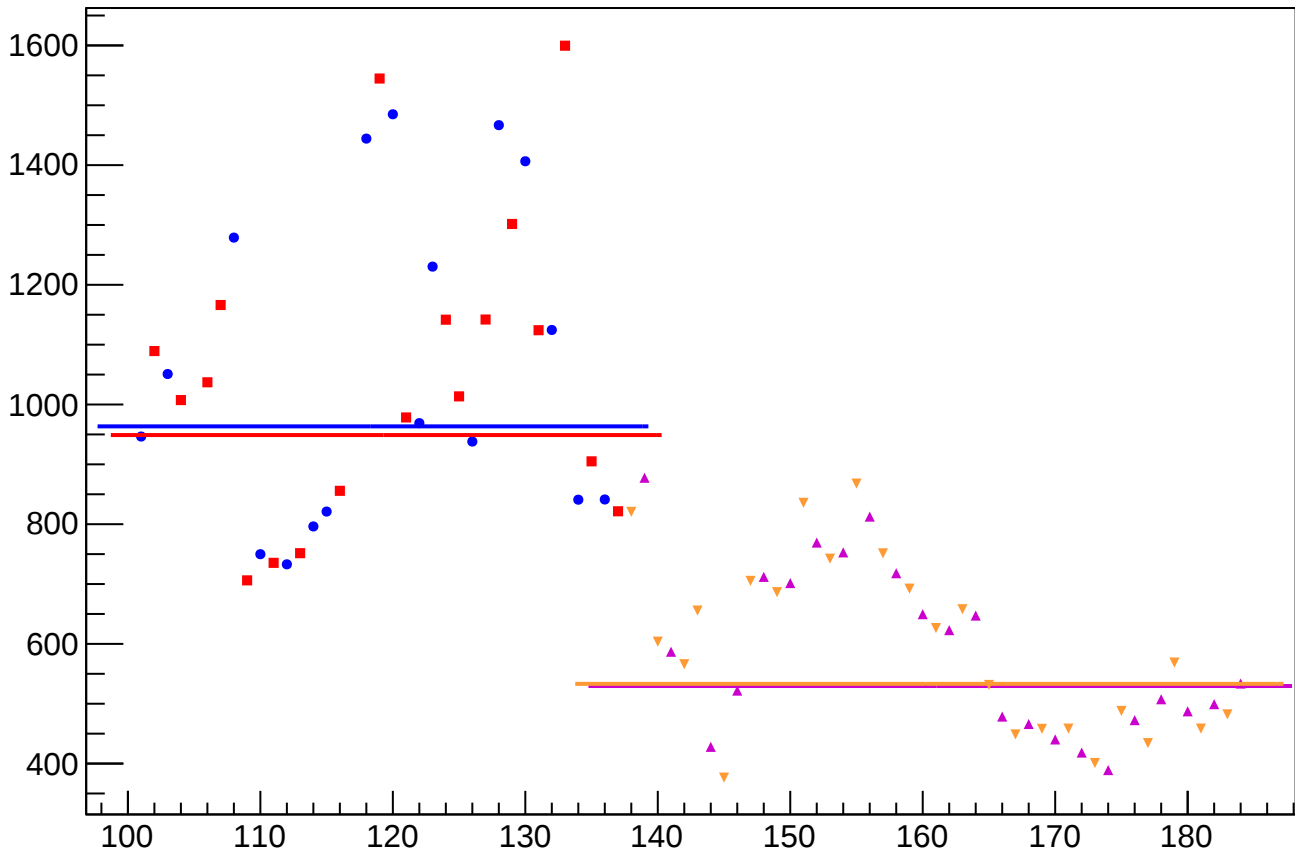
Left In:  $-40.329 \pm 129.731$   $\chi^2/\text{NDF}$ : 26.1/22

+ sign  $-575.138 \pm 122.119$   $\chi^2/\text{NDF}$ : 87.6/40

All:  $-343.090 \pm 86.441$   $\chi^2/\text{NDF}$ : 132.9/81

- sign  $-110.075 \pm 122.374$   $\chi^2/\text{NDF}$ : 38.1/40

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 963.469 $\pm$ 0.271  $\chi^2$ /NDF: 688873.3/16

Left Out: 533.216 $\pm$ 0.091  $\chi^2$ /NDF: 2029141.0/23

Right Out: 948.947 $\pm$ 0.261  $\chi^2$ /NDF: 729378.3/17

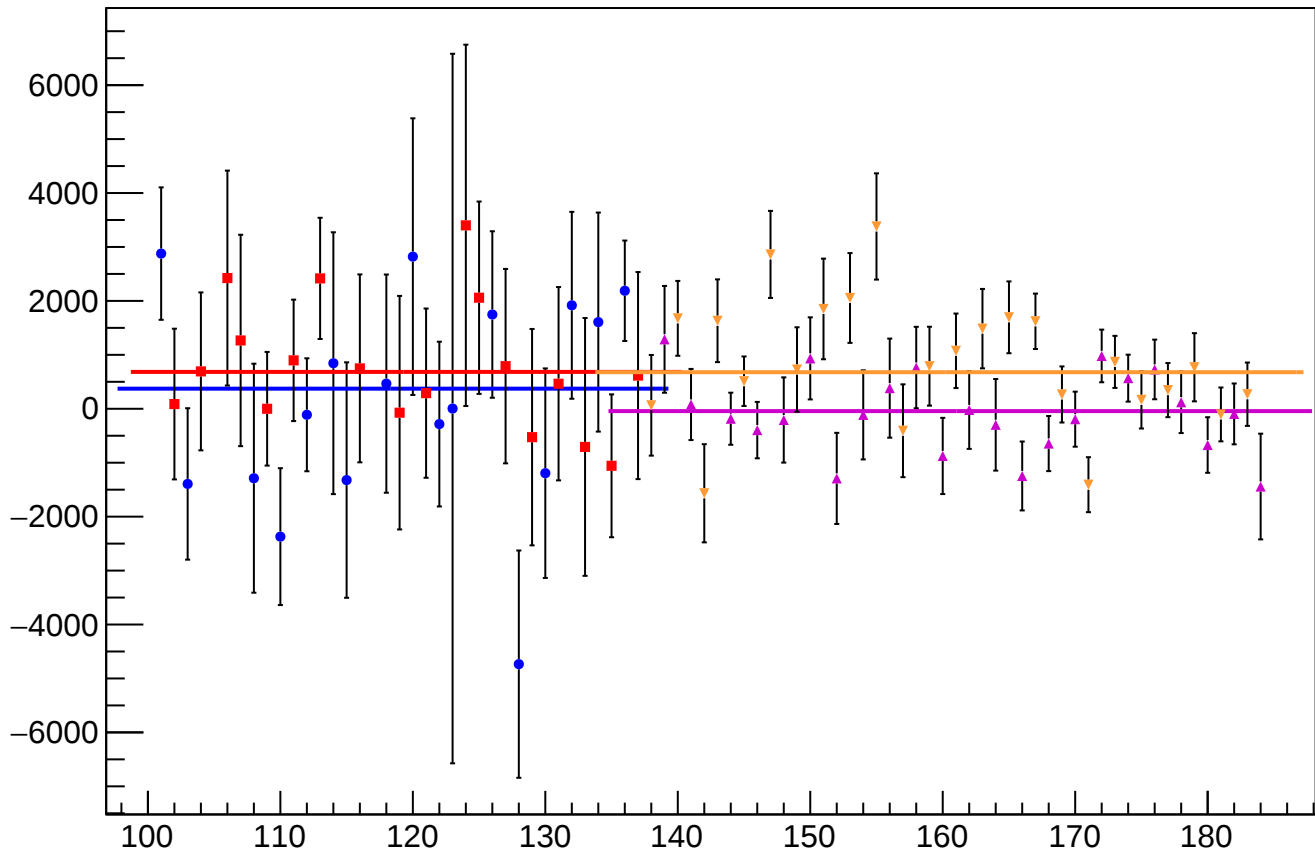
Left In: 529.591 $\pm$ 0.092  $\chi^2$ /NDF: 1781741.4/22

+ sign 576.754 $\pm$ 0.086  $\chi^2$ /NDF: 4975968.0/40

All: 576.282 $\pm$ 0.061  $\chi^2$ /NDF: 9790274.3/81

- sign 575.808 $\pm$ 0.087  $\chi^2$ /NDF: 4814246.4/40

# asym\_sam\_37\_avg\_mean vs Slug



Right In: 372.896 $\pm$ 383.661  $\chi^2/\text{NDF}$ : 25.3/16

Left Out: 678.199 $\pm$ 129.480  $\chi^2/\text{NDF}$ : 60.2/23

Right Out: 683.612 $\pm$ 372.418  $\chi^2/\text{NDF}$ : 7.8/17

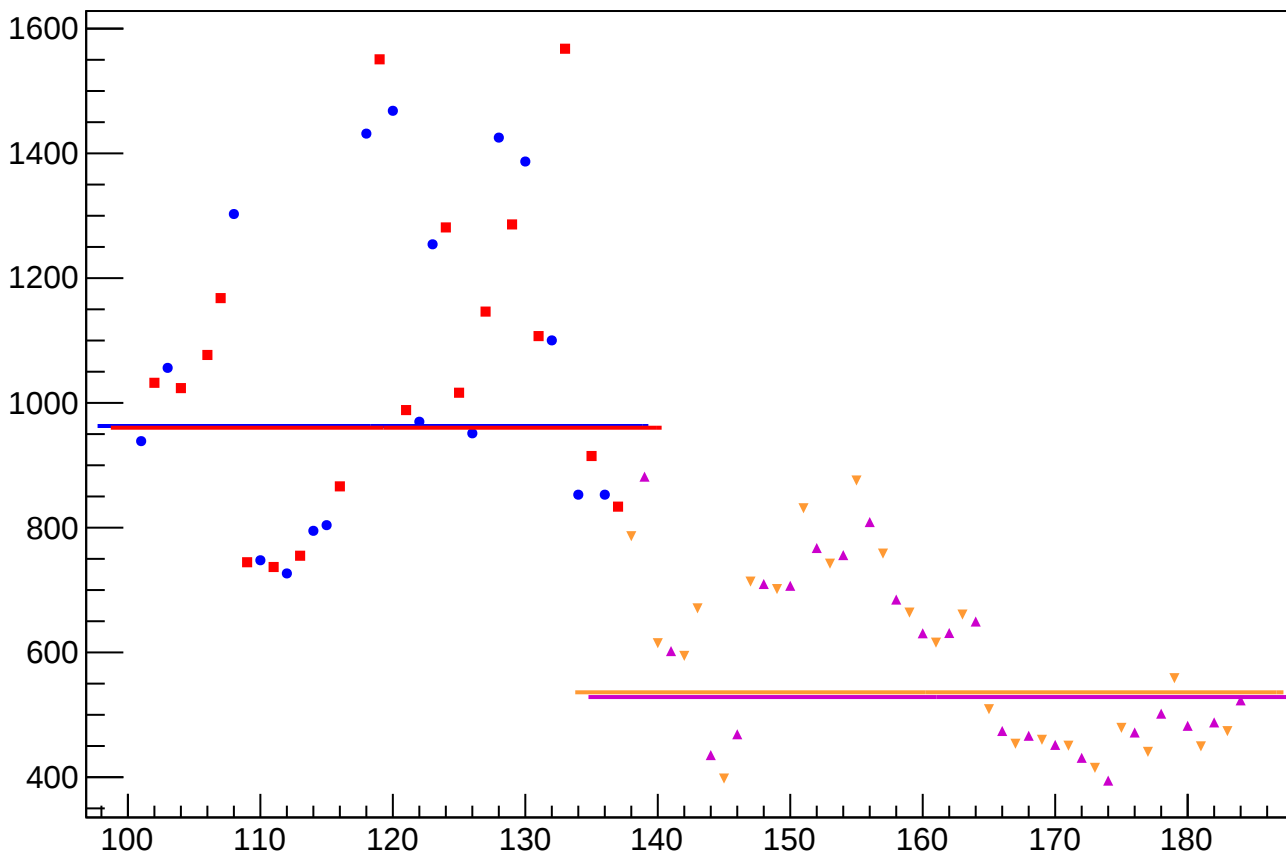
Left In: -43.183 $\pm$ 129.538  $\chi^2/\text{NDF}$ : 26.0/22

+ sign 646.982 $\pm$ 122.681  $\chi^2/\text{NDF}$ : 86.0/40

All: 340.288 $\pm$ 86.631  $\chi^2/\text{NDF}$ : 135.7/81

- sign 35.258 $\pm$ 122.348  $\chi^2/\text{NDF}$ : 37.2/40

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 536.071 $\pm$ 0.092  $\chi^2$ /NDF:1906389.3/23

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

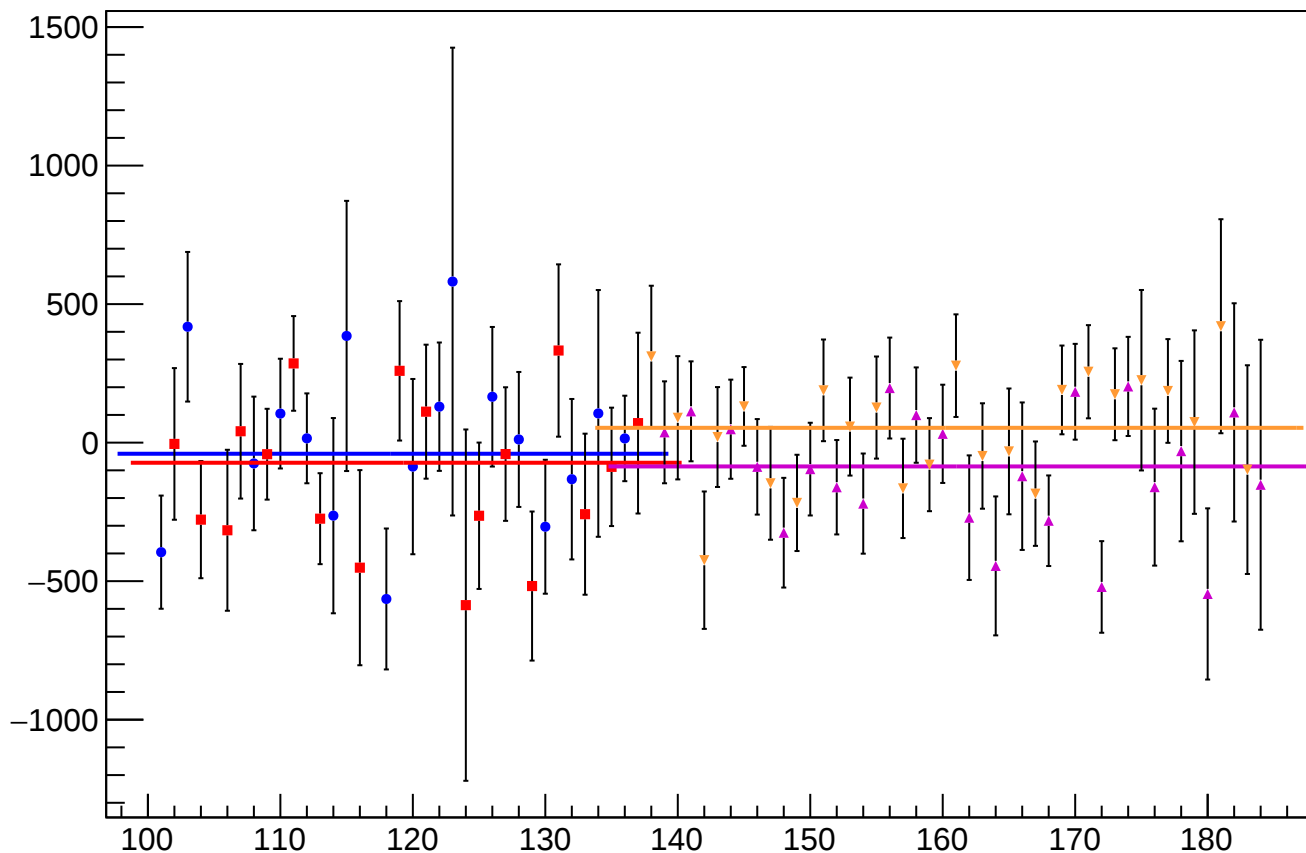
Left In: 528.464 $\pm$ 0.092  $\chi^2$ /NDF:1712049.5/22

+ sign 579.722 $\pm$ 0.087  $\chi^2$ /NDF: 4796912.9/40

All: 577.386 $\pm$ 0.061  $\chi^2$ /NDF: 9579369.4/81

- sign 575.063 $\pm$ 0.087  $\chi^2$ /NDF: 4781010.3/40

# dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-40.122 \pm 59.256$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $53.460 \pm 40.064$   $\chi^2/\text{NDF}$ : 19.4/23

Right Out:  $-72.607 \pm 56.313$   $\chi^2/\text{NDF}$ : 17.6/17

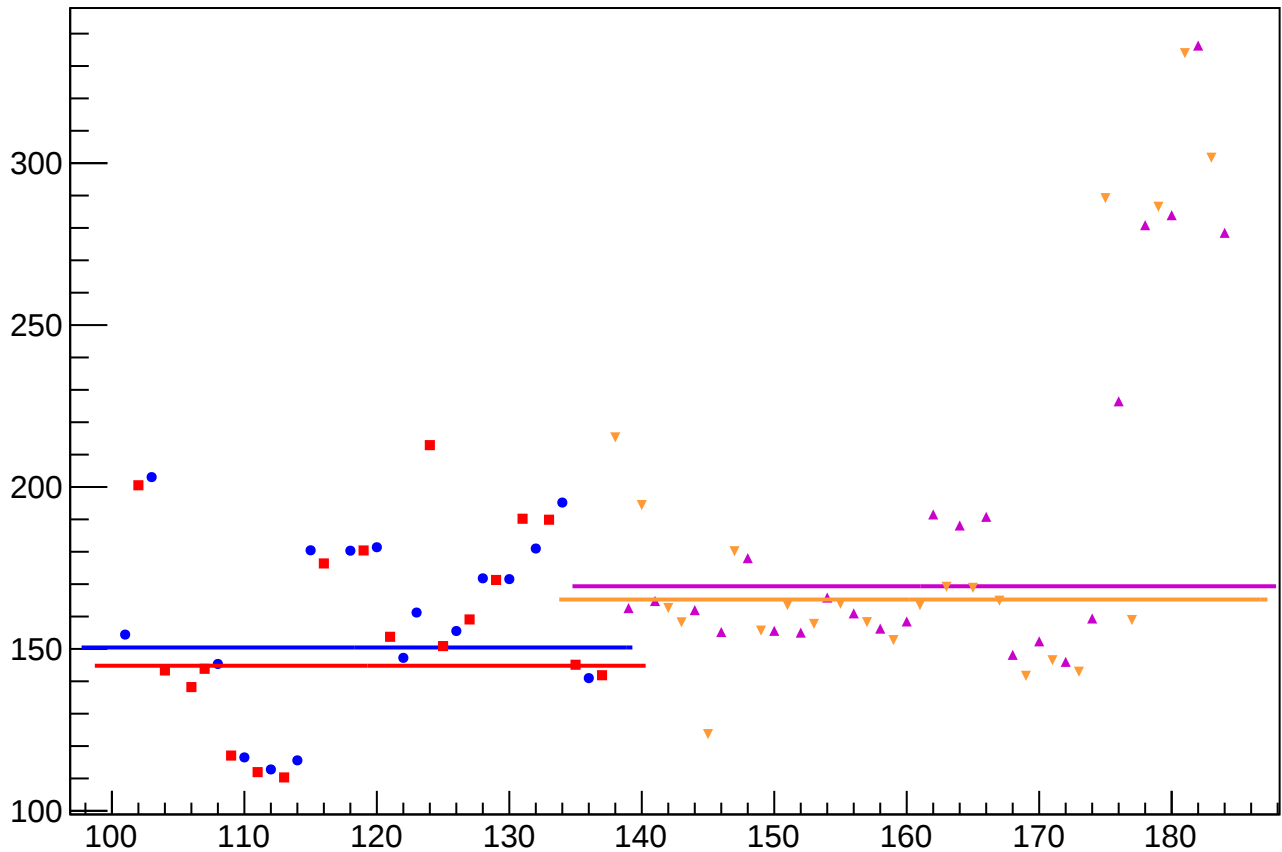
Left In:  $-85.917 \pm 41.591$   $\chi^2/\text{NDF}$ : 27.2/22

+ sign  $24.101 \pm 33.190$   $\chi^2/\text{NDF}$ : 36.4/40

All:  $-28.139 \pm 23.562$   $\chi^2/\text{NDF}$ : 86.2/81

- sign  $-81.219 \pm 33.456$   $\chi^2/\text{NDF}$ : 44.8/40

dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 165.252 $\pm$ 0.028  $\chi^2$ /NDF:1630838.0/23

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

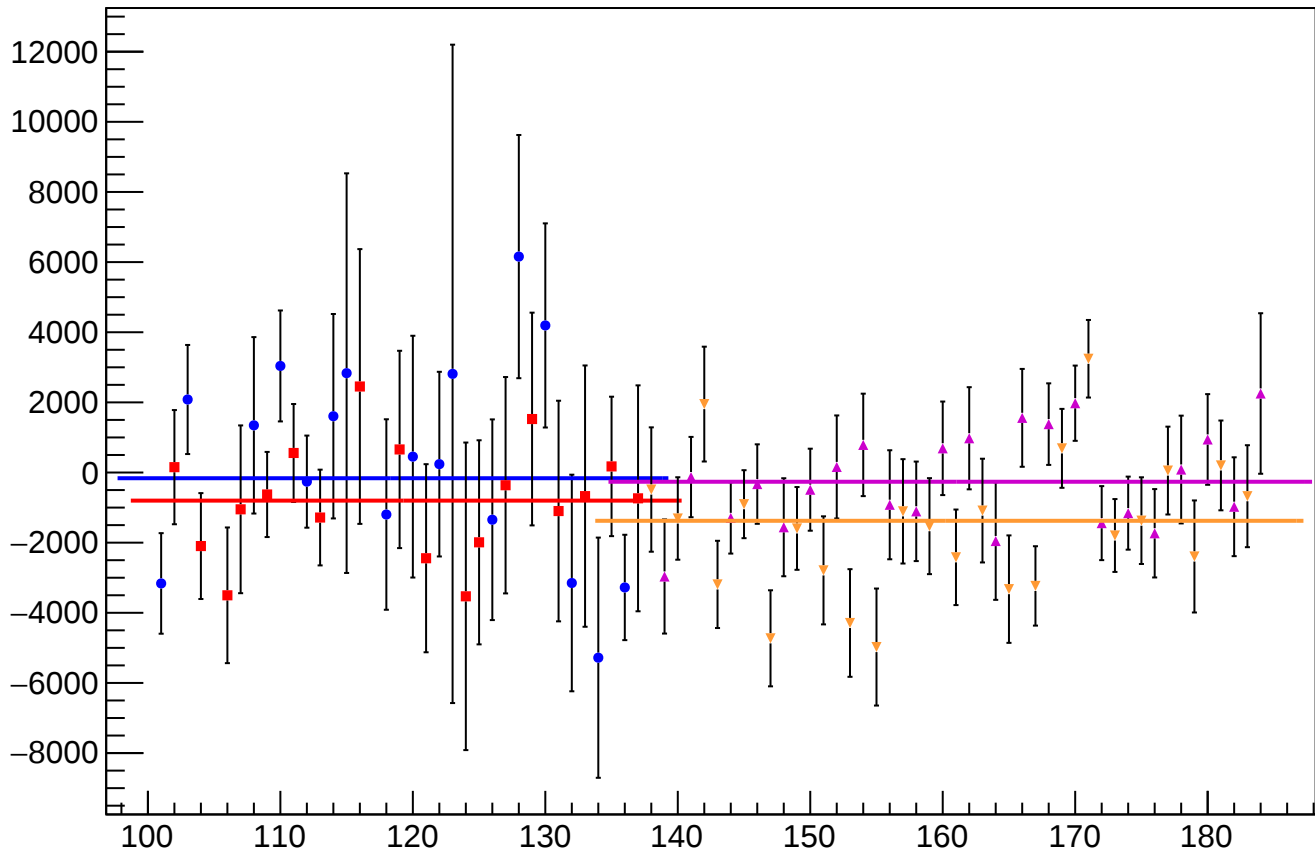
Left In: 169.348 $\pm$ 0.029  $\chi^2$ /NDF:1256257.6/22

+ sign 160.606 $\pm$ 0.023  $\chi^2$ /NDF: 2116705.7/40

All: 160.646 $\pm$ 0.017  $\chi^2$ /NDF: 4122602.8/81

- sign 160.686 $\pm$ 0.024  $\chi^2$ /NDF: 2005891.3/40

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}$ : 25.1/16

Left Out:  $-1376.631 \pm 266.585$   $\chi^2/\text{NDF}$ : 51.3/23

Right Out:  $-801.139 \pm 486.610$   $\chi^2/\text{NDF}$ : 6.9/17

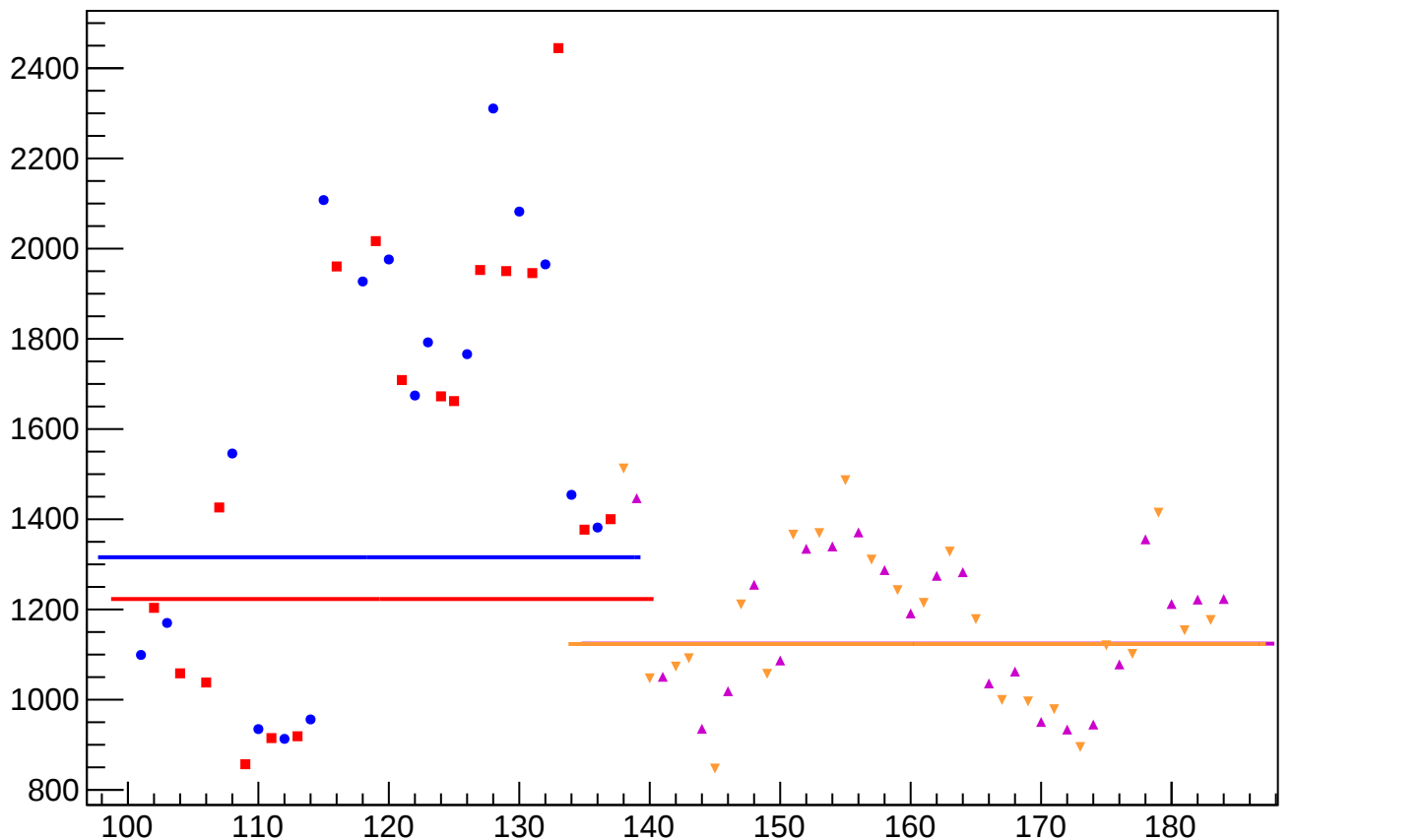
Left In:  $-263.205 \pm 270.689$   $\chi^2/\text{NDF}$ : 21.9/22

+ sign  $-1133.863 \pm 238.440$   $\chi^2/\text{NDF}$ : 80.5/40

All:  $-759.141 \pm 167.931$   $\chi^2/\text{NDF}$ : 115.1/81

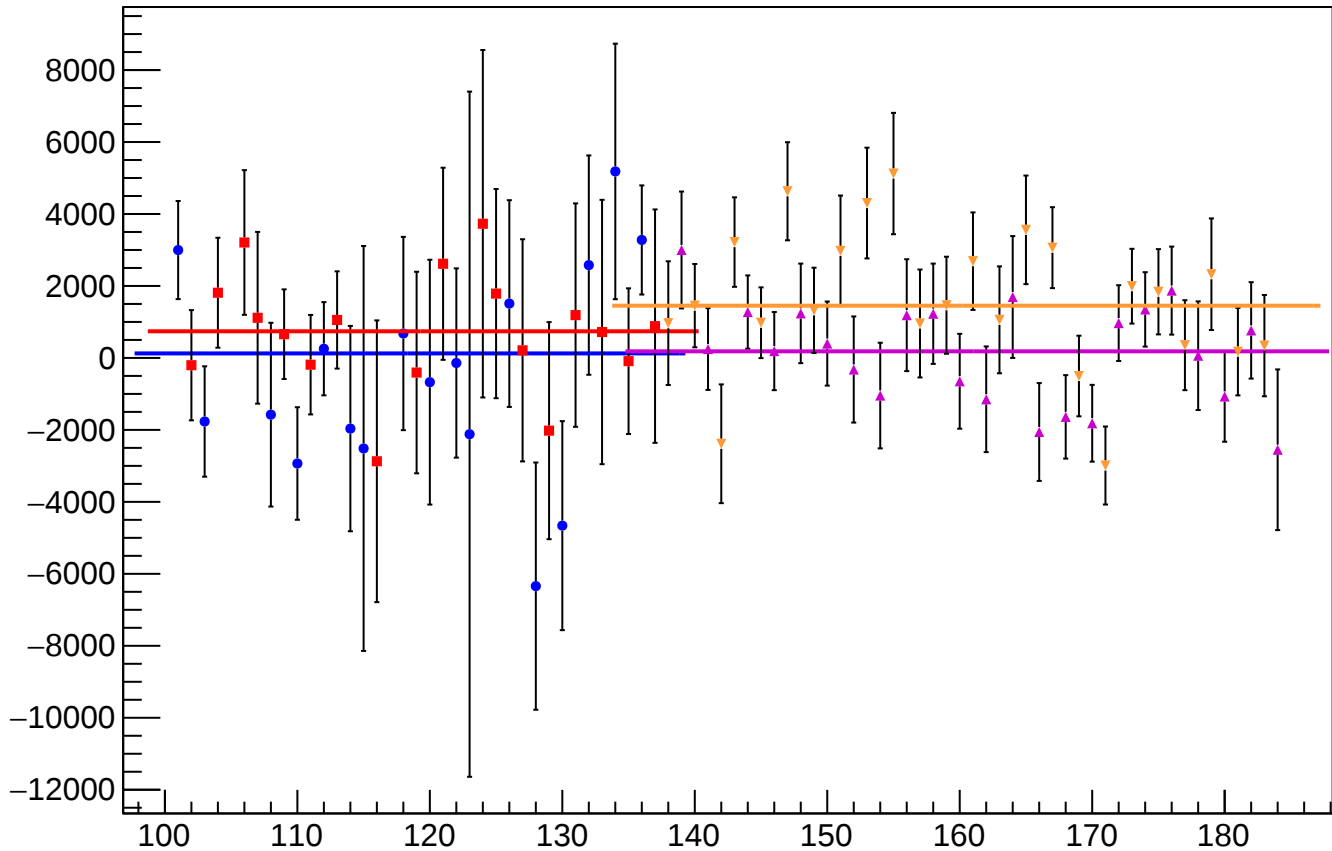
- sign  $-390.328 \pm 236.553$   $\chi^2/\text{NDF}$ : 29.7/40

# asym\_sam\_48\_avg\_correction\_rms vs Slug



|                             |                                    |                         |                                    |
|-----------------------------|------------------------------------|-------------------------|------------------------------------|
| Right In: 1315.784+/-0.377  | $\chi^2/\text{NDF}$ : 1118346.6/16 | + sign 1161.941+/-0.169 | $\chi^2/\text{NDF}$ : 2154906.0/40 |
| Left Out: 1123.480+/-0.189  | $\chi^2/\text{NDF}$ : 828409.5/23  | All: 1154.706+/-0.119   | $\chi^2/\text{NDF}$ : 4243825.9/83 |
| Right Out: 1223.179+/-0.344 | $\chi^2/\text{NDF}$ : 1363055.0/17 | - sign 1147.585+/-0.167 | $\chi^2/\text{NDF}$ : 2085266.1/40 |
| Left In: 1124.193+/-0.191   | $\chi^2/\text{NDF}$ : 659010.3/22  |                         |                                    |

# asym\_sam\_48\_avg\_mean vs Slug



Right In:  $125.377 \pm 526.801$   $\chi^2/\text{NDF}: 24.7/16$

Left Out:  $1451.591 \pm 264.177$   $\chi^2/\text{NDF}: 50.4/23$

Right Out:  $739.954 \pm 486.808$   $\chi^2/\text{NDF}: 6.0/17$

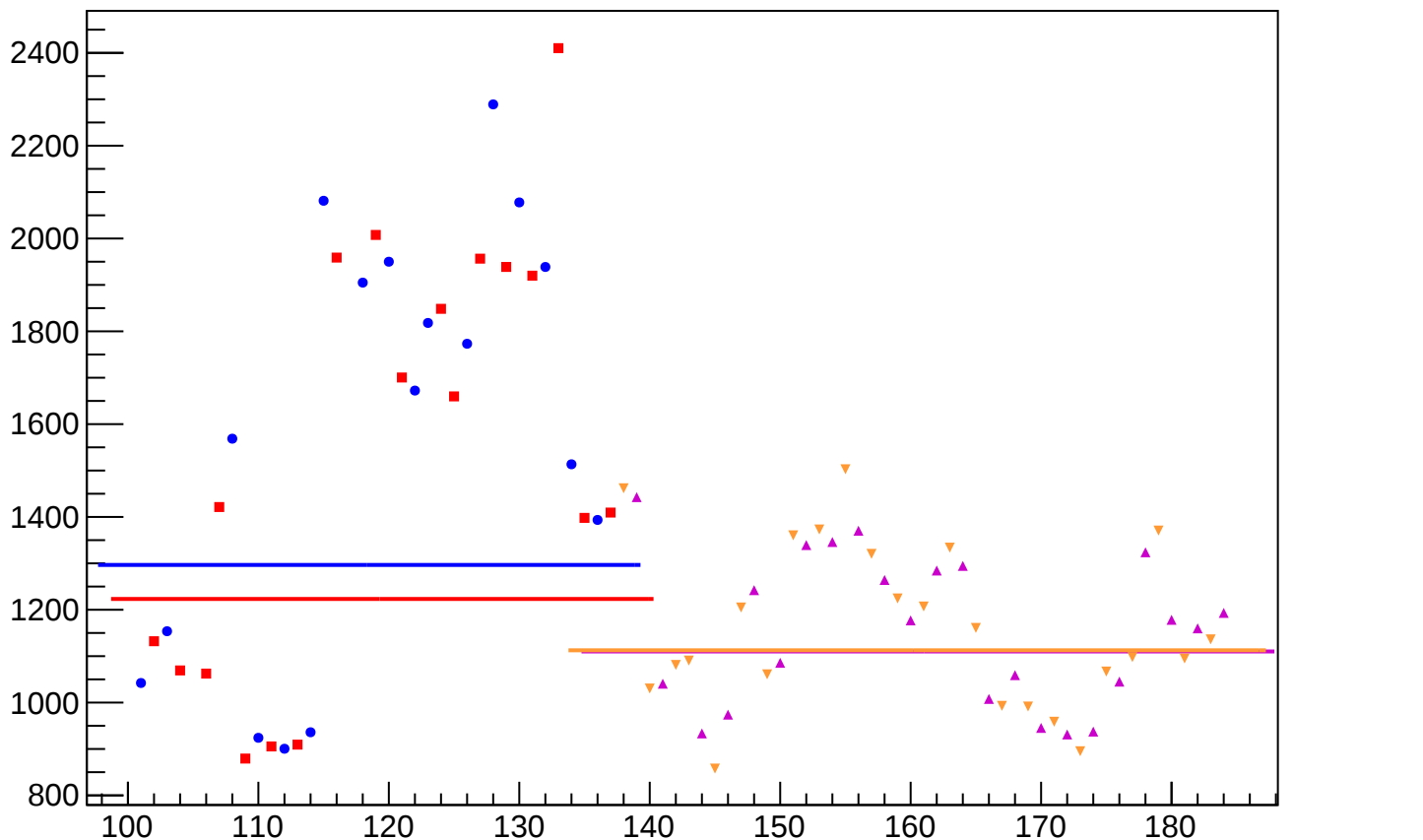
Left In:  $183.249 \pm 267.620$   $\chi^2/\text{NDF}: 23.7/22$

+ sign  $1185.098 \pm 236.147$   $\chi^2/\text{NDF}: 80.1/40$

All:  $745.753 \pm 166.402$   $\chi^2/\text{NDF}: 117.7/81$

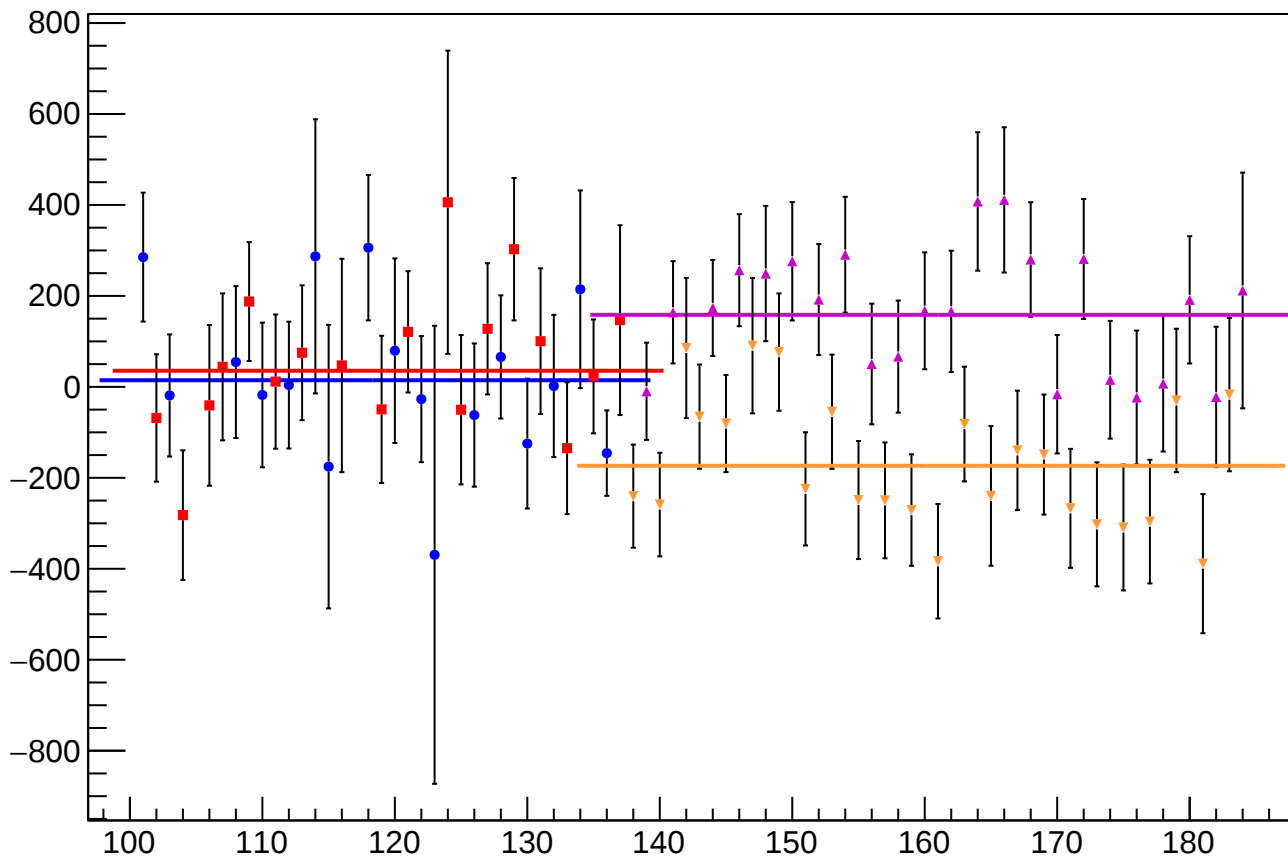
- sign  $312.449 \pm 234.518$   $\chi^2/\text{NDF}: 30.7/40$

# asym\_sam\_48\_avg\_rms vs Slug



|                                 |                             |                             |                             |
|---------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Right In: 1296.573 $\pm$ 0.373  | $\chi^2$ /NDF: 1175465.2/16 | + sign 1149.600 $\pm$ 0.167 | $\chi^2$ /NDF: 2169886.6/40 |
| Left Out: 1112.640 $\pm$ 0.187  | $\chi^2$ /NDF: 799599.6/23  | All: 1142.961 $\pm$ 0.118   | $\chi^2$ /NDF: 4275863.0/83 |
| Right Out: 1223.274 $\pm$ 0.344 | $\chi^2$ /NDF: 1346689.2/17 | - sign 1136.413 $\pm$ 0.166 | $\chi^2$ /NDF: 2102836.7/40 |
| Left In: 1110.162 $\pm$ 0.189   | $\chi^2$ /NDF: 673229.2/22  |                             |                             |

# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 14.577+/-38.017  $\chi^2/\text{NDF}$ : 14.2/16

Left Out: -173.465+/-26.708  $\chi^2/\text{NDF}$ : 25.1/23

Right Out: 35.475+/-36.728  $\chi^2/\text{NDF}$ : 14.5/17

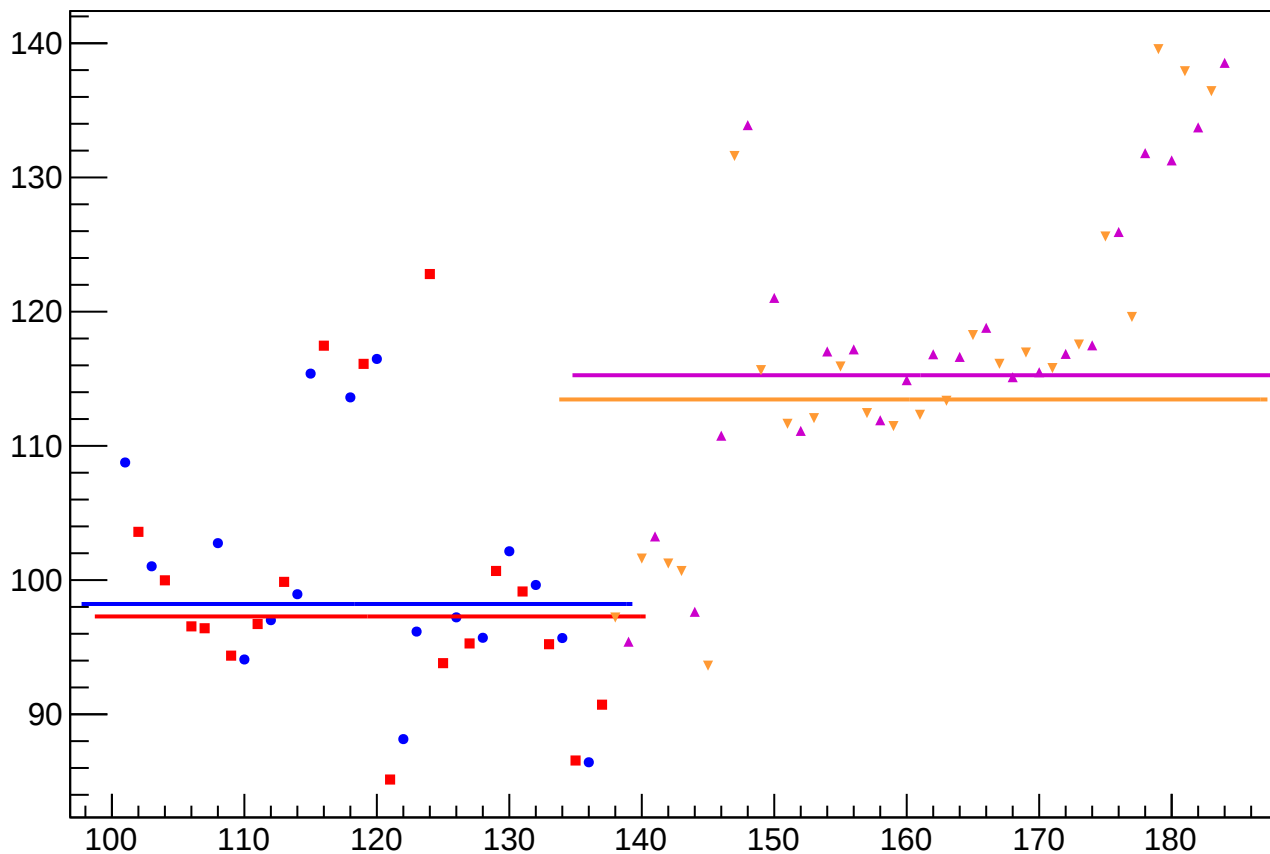
Left In: 158.449+/-27.575  $\chi^2/\text{NDF}$ : 20.7/22

+ sign -111.326+/-21.854  $\chi^2/\text{NDF}$ : 55.7/40

All: 0.382+/-15.522  $\chi^2/\text{NDF}$ : 150.8/81

- sign 114.119+/-22.051  $\chi^2/\text{NDF}$ : 42.4/40

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 98.219 $\pm$ 0.027  $\chi^2$ /NDF: 100510.4/16

Left Out: 113.459 $\pm$ 0.019  $\chi^2$ /NDF: 370817.2/23

Right Out: 97.290 $\pm$ 0.026  $\chi^2$ /NDF: 96216.6/17

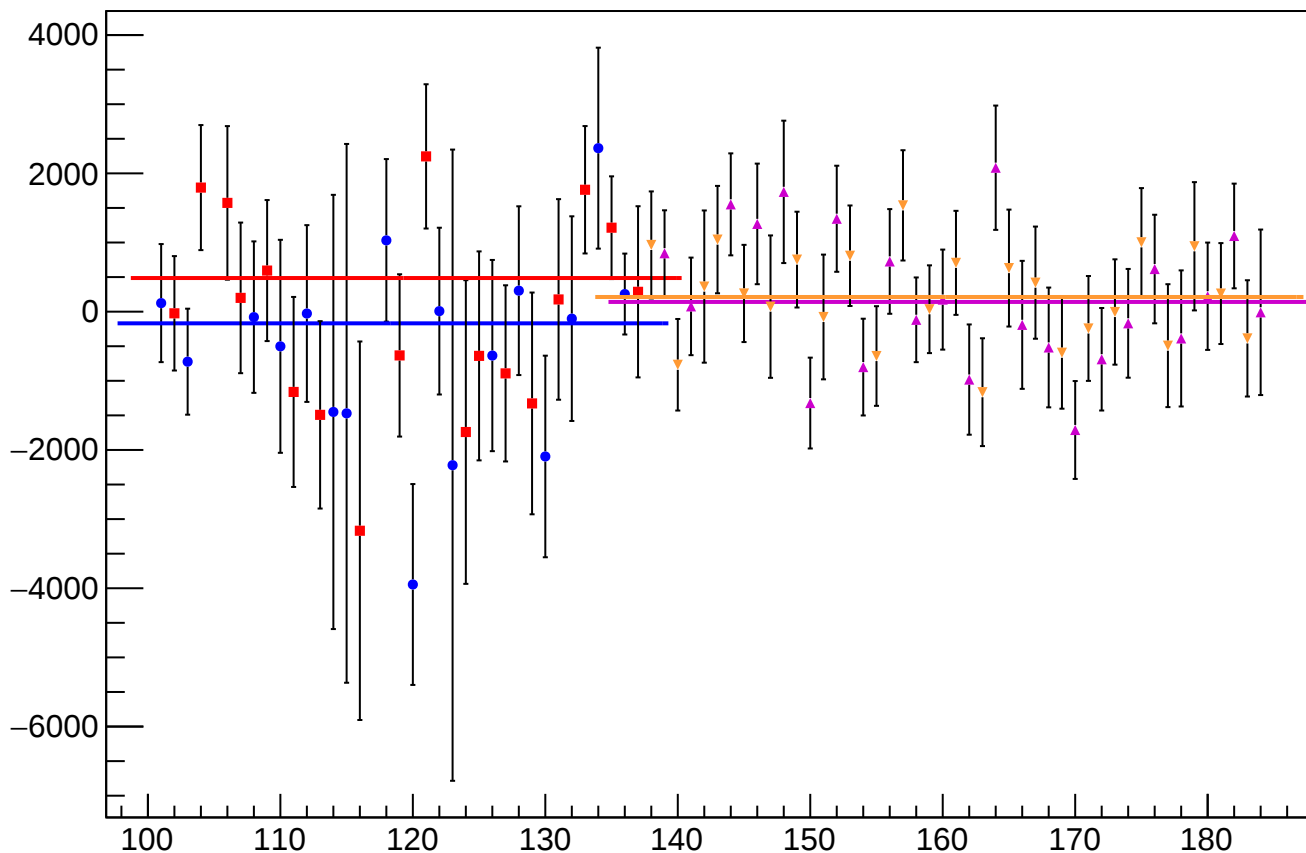
Left In: 115.264 $\pm$ 0.019  $\chi^2$ /NDF: 298522.7/22

+ sign 108.423 $\pm$ 0.015  $\chi^2$ /NDF: 686515.6/40

All: 108.602 $\pm$ 0.011  $\chi^2$ /NDF: 1387826.5/81

- sign 108.785 $\pm$ 0.016  $\chi^2$ /NDF: 701039.2/40

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In: -168.802 $\pm$ 282.178  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: 212.214 $\pm$ 159.605  $\chi^2/\text{NDF}$ : 18.0/23

Right Out: 486.312 $\pm$ 268.010  $\chi^2/\text{NDF}$ : 19.6/17

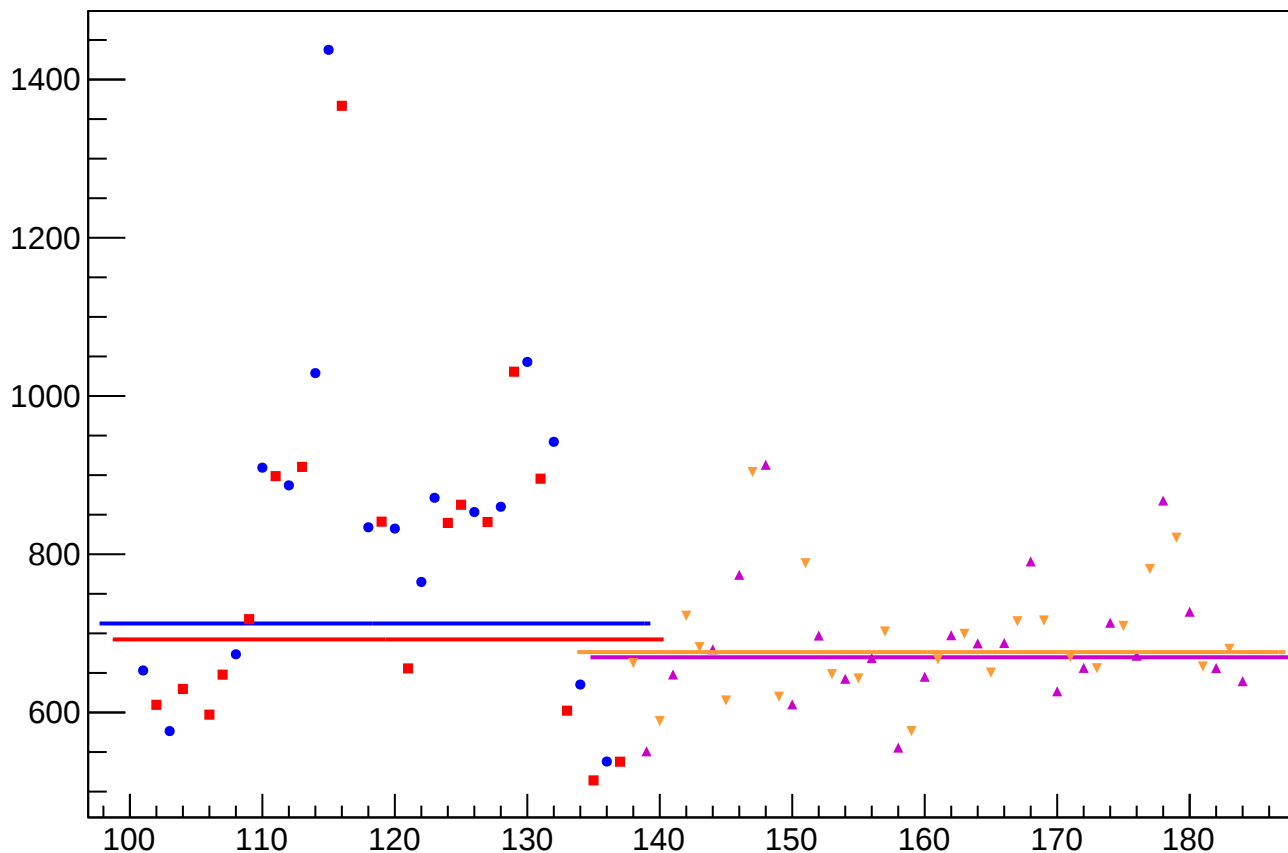
Left In: 140.513 $\pm$ 160.990  $\chi^2/\text{NDF}$ : 36.9/22

+ sign 119.863 $\pm$ 138.922  $\chi^2/\text{NDF}$ : 34.0/40

All: 176.405 $\pm$ 97.907  $\chi^2/\text{NDF}$ : 92.0/81

- sign 232.203 $\pm$ 138.006  $\chi^2/\text{NDF}$ : 57.7/40

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 712.476 $\pm$ 0.200  $\chi^2$ /NDF: 660520.6/16

Left Out: 676.348 $\pm$ 0.113  $\chi^2$ /NDF: 351081.1/23

Right Out: 692.342 $\pm$ 0.190  $\chi^2$ /NDF: 656953.1/17

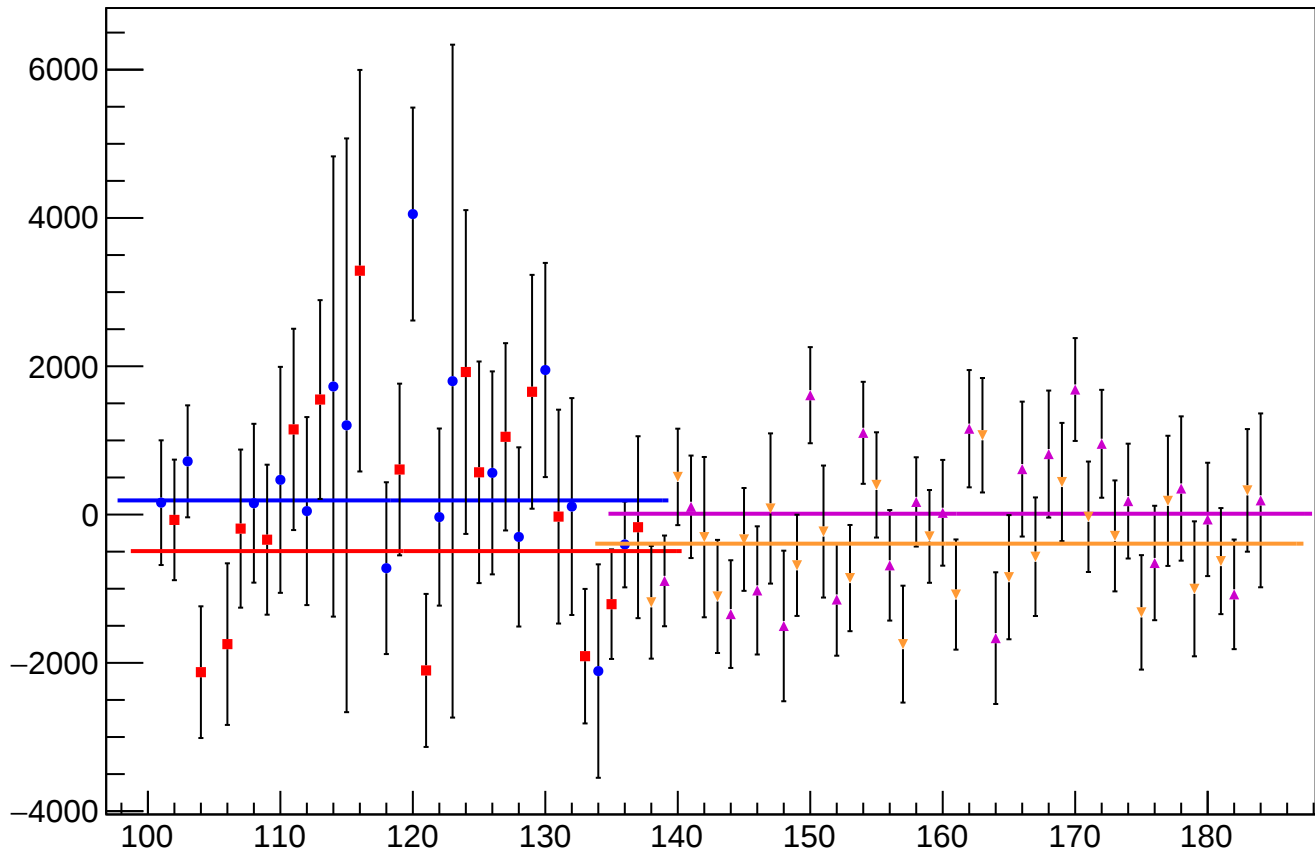
Left In: 669.811 $\pm$ 0.114  $\chi^2$ /NDF: 460796.0/22

+ sign 685.105 $\pm$ 0.098  $\chi^2$ /NDF: 1036439.9/40

All: 680.414 $\pm$ 0.069  $\chi^2$ /NDF: 2169106.5/81

- sign 675.785 $\pm$ 0.098  $\chi^2$ /NDF: 1128136.3/40

# asym\_sam\_15\_dd\_mean vs Slug



Right In:  $190.880 \pm 278.670$   $\chi^2/\text{NDF}$ : 14.2/16

Left Out:  $-392.404 \pm 157.190$   $\chi^2/\text{NDF}$ : 18.3/23

Right Out:  $-492.784 \pm 264.629$   $\chi^2/\text{NDF}$ : 22.8/17

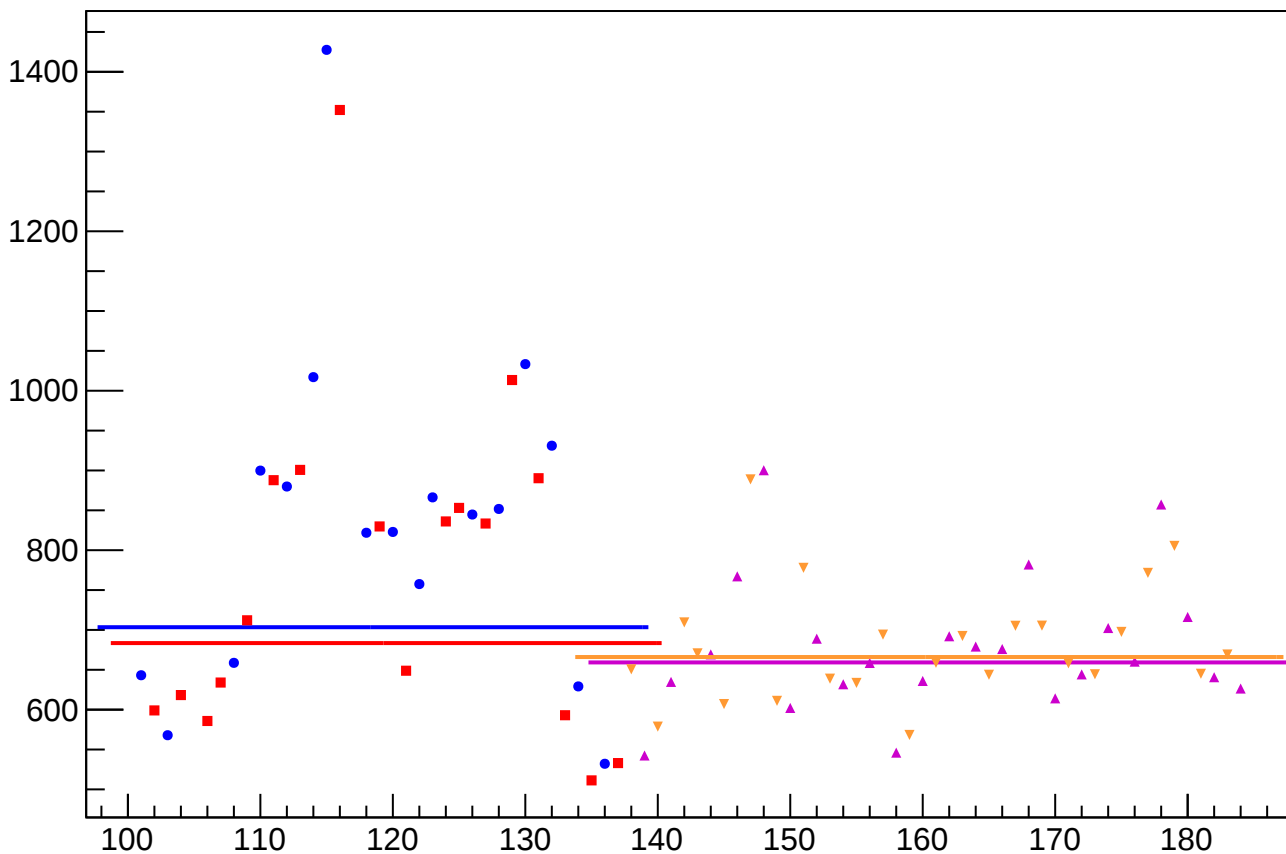
Left In:  $11.243 \pm 158.497$   $\chi^2/\text{NDF}$ : 38.8/22

+ sign  $-251.613 \pm 136.911$   $\chi^2/\text{NDF}$ : 35.8/40

All:  $-186.275 \pm 96.478$   $\chi^2/\text{NDF}$ : 100.5/81

- sign  $-121.829 \pm 135.974$   $\chi^2/\text{NDF}$ : 64.3/40

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 703.406 $\pm$ 0.197  $\chi^2$ /NDF: 666885.8/16

Left Out: 666.001 $\pm$ 0.111  $\chi^2$ /NDF: 350746.8/23

Right Out: 683.493 $\pm$ 0.187  $\chi^2$ /NDF: 659356.0/17

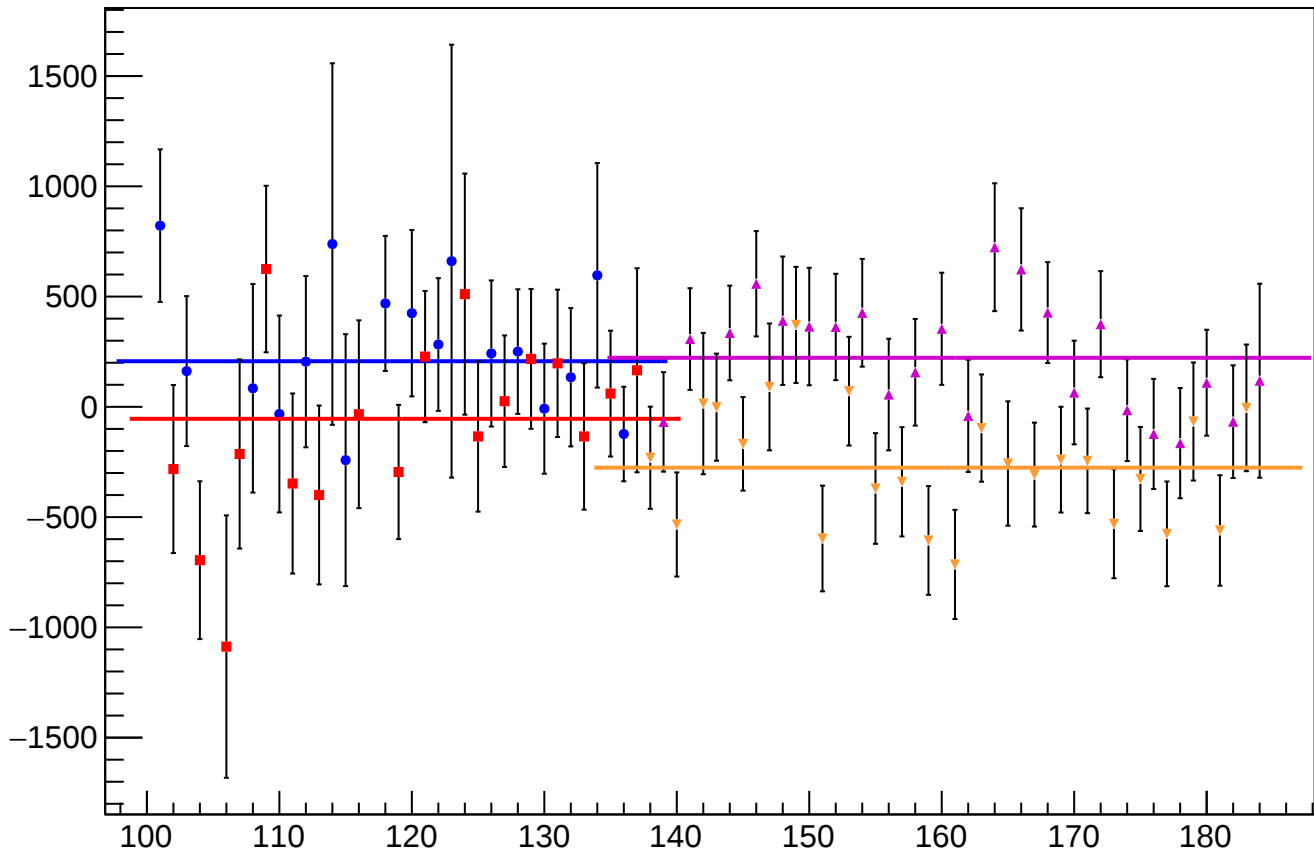
Left In: 659.230 $\pm$ 0.112  $\chi^2$ /NDF: 472744.9/22

+ sign 675.030 $\pm$ 0.097  $\chi^2$ /NDF: 1044968.4/40

All: 670.301 $\pm$ 0.068  $\chi^2$ /NDF: 2194183.3/81

- sign 665.636 $\pm$ 0.096  $\chi^2$ /NDF: 1144474.6/40

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 206.874 $\pm$ 85.632  $\chi^2$ /NDF: 9.5/16

Left Out: -275.772 $\pm$ 50.797  $\chi^2$ /NDF: 26.3/23

Right Out: -54.185 $\pm$ 85.192  $\chi^2$ /NDF: 15.7/17

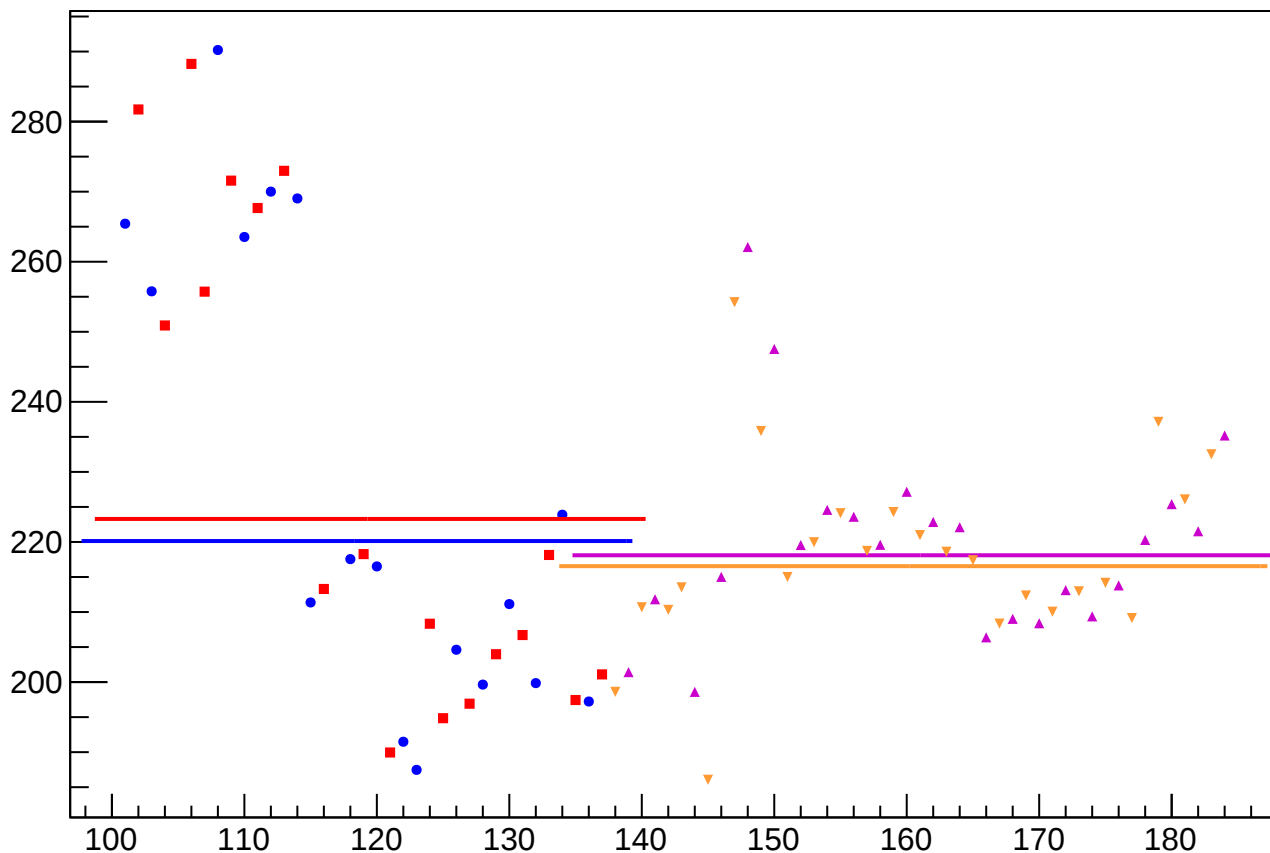
Left In: 222.456 $\pm$ 52.039  $\chi^2$ /NDF: 21.2/22

+ sign -150.141 $\pm$ 43.689  $\chi^2$ /NDF: 59.3/40

All: -3.861 $\pm$ 31.144  $\chi^2$ /NDF: 126.6/81

- sign 147.283 $\pm$ 44.409  $\chi^2$ /NDF: 44.6/40

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 220.133+/-0.061  $\chi^2/\text{NDF}$ : 228444.0/16

Left Out: 216.545+/-0.036  $\chi^2/\text{NDF}$ :133887.2/23

Right Out: 223.287+/-0.060  $\chi^2/\text{NDF}$ : 272255.2/17

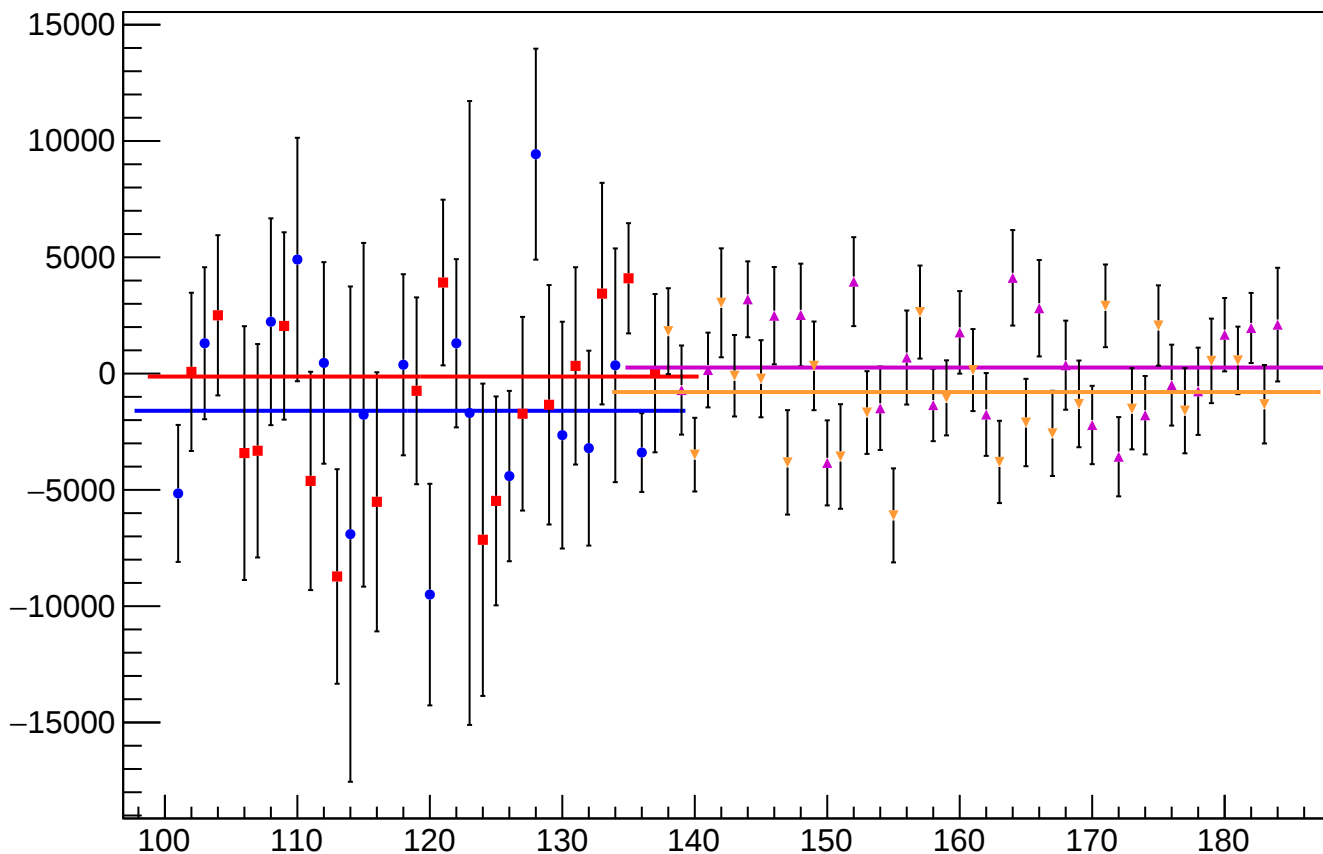
Left In: 218.101+/-0.037  $\chi^2/\text{NDF}$ :125305.4/22

+ sign 217.479+/-0.031  $\chi^2/\text{NDF}$ : 364928.4/40

All: 218.478+/-0.022  $\chi^2/\text{NDF}$ : 770014.5/81

- sign 219.510+/-0.031  $\chi^2/\text{NDF}$ : 402958.7/40

# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In: -1599.045 $\pm$ 921.042  $\chi^2/\text{NDF}$ : 16.6/16

Left Out: -793.698 $\pm$ 368.971  $\chi^2/\text{NDF}$ : 35.3/23

Right Out: -127.760 $\pm$ 949.094  $\chi^2/\text{NDF}$ : 14.8/17

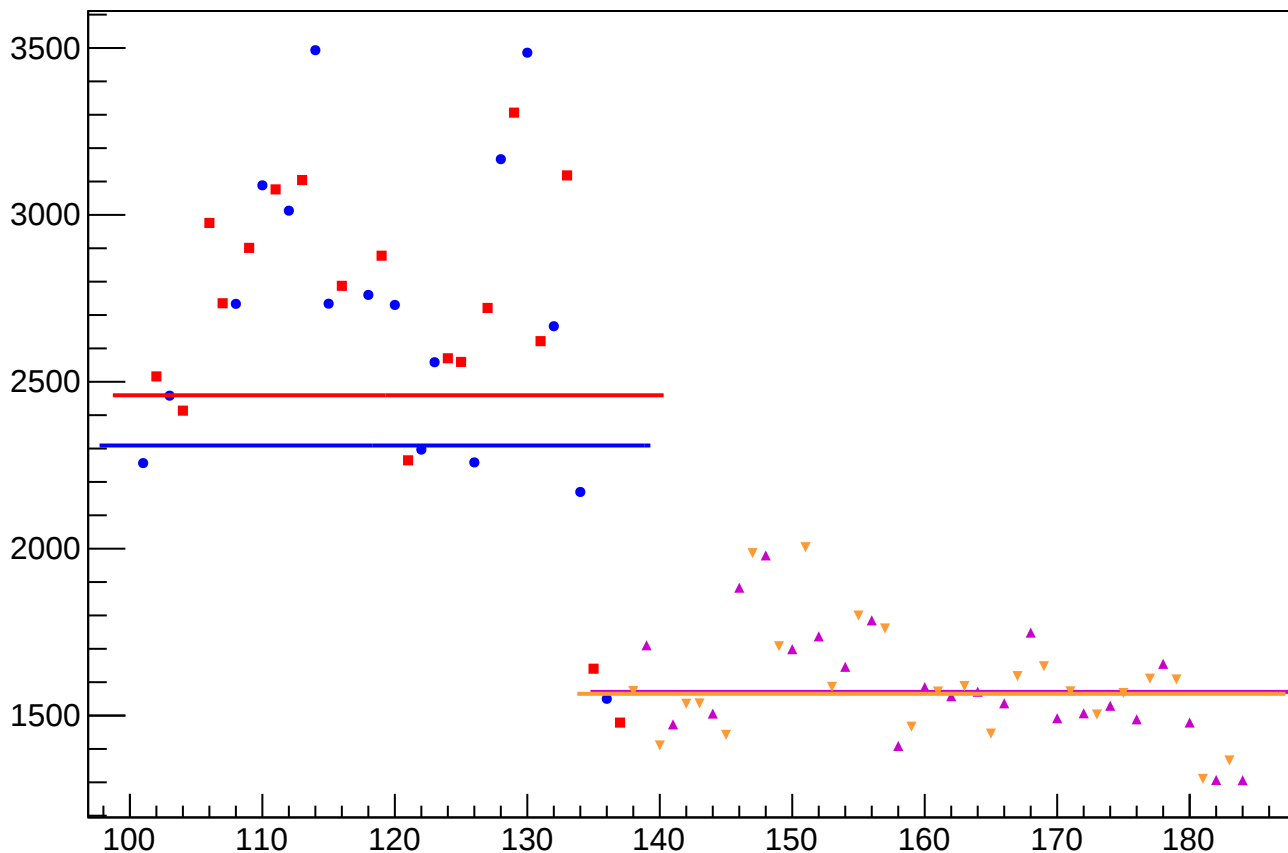
Left In: 260.369 $\pm$ 376.365  $\chi^2/\text{NDF}$ : 35.4/22

+ sign -905.069 $\pm$ 342.510  $\chi^2/\text{NDF}$ : 52.6/40

All: -360.532 $\pm$ 244.748  $\chi^2/\text{NDF}$ : 108.1/81

- sign 207.628 $\pm$ 349.860  $\chi^2/\text{NDF}$ : 50.4/40

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2309.132 $\pm$ 0.651  $\chi^2$ /NDF: 800728.2/16

Left Out: 1565.153 $\pm$ 0.261  $\chi^2$ /NDF:351109.3/23

Right Out: 2459.603 $\pm$ 0.671  $\chi^2$ /NDF: 668179.2/17

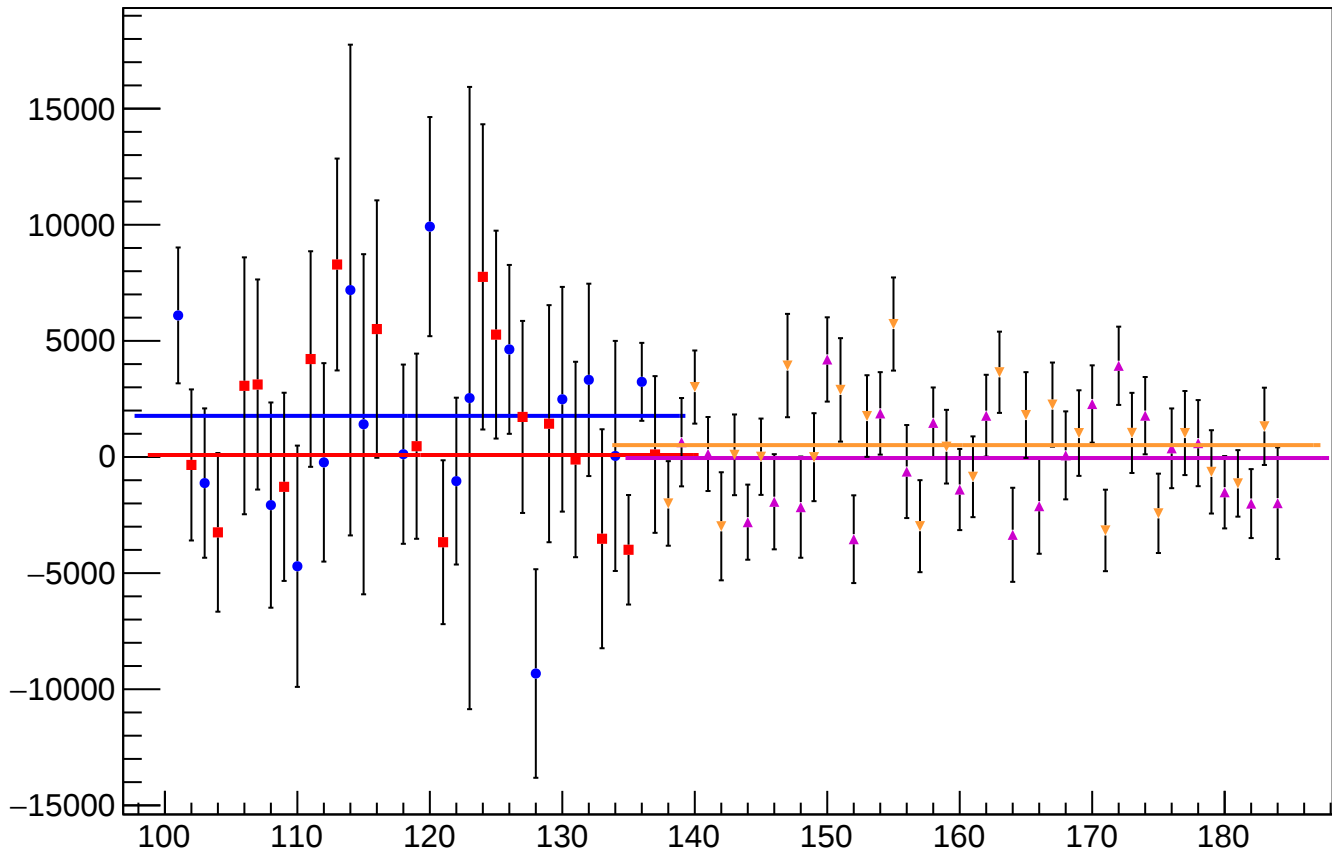
Left In: 1570.921 $\pm$ 0.266  $\chi^2$ /NDF:333590.4/22

+ sign 1668.037 $\pm$ 0.242  $\chi^2$ /NDF: 2276322.5/40

All: 1679.607 $\pm$ 0.173  $\chi^2$ /NDF: 4797976.4/83

- sign 1691.680 $\pm$ 0.247  $\chi^2$ /NDF: 2516990.2/40

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1771.279 $\pm$ 912.328  $\chi^2$ /NDF: 17.3/16

Left Out: 511.737 $\pm$ 364.769  $\chi^2$ /NDF: 35.6/23

Right Out: 86.080 $\pm$ 939.852  $\chi^2$ /NDF: 14.5/17

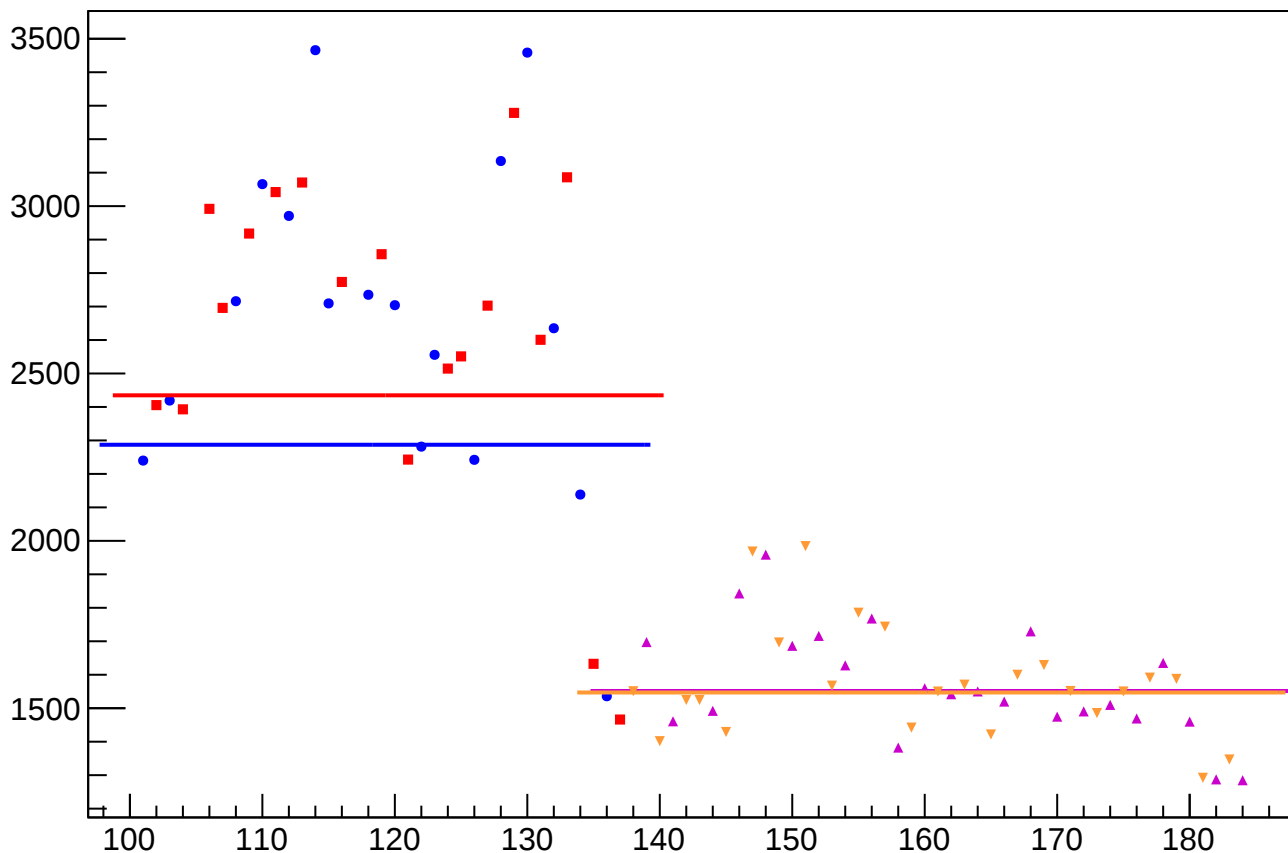
Left In: -43.949 $\pm$ 371.765  $\chi^2$ /NDF: 33.5/22

+ sign 685.334 $\pm$ 338.701  $\chi^2$ /NDF: 54.6/40

All: 336.769 $\pm$ 241.935  $\chi^2$ /NDF: 104.8/81

- sign -26.356 $\pm$ 345.703  $\chi^2$ /NDF: 48.0/40

# asym\_sam\_26\_dd\_rms vs Slug



Right In:  $2287.102 \pm 0.645$   $\chi^2/\text{NDF}: 799399.0/16$

Left Out:  $1547.007 \pm 0.258$   $\chi^2/\text{NDF}: 358246.0/23$

Right Out:  $2434.786 \pm 0.665$   $\chi^2/\text{NDF}: 666938.3/17$

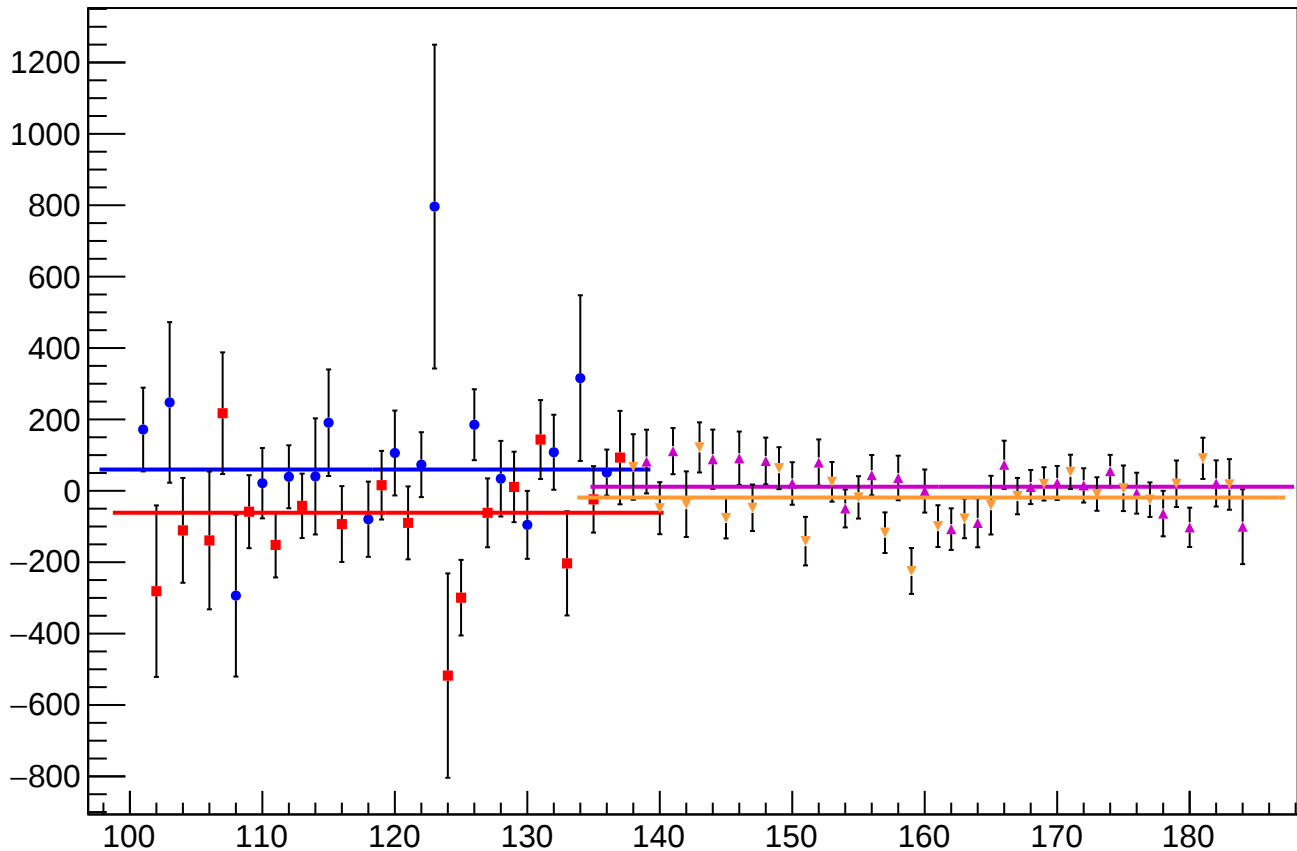
Left In:  $1551.481 \pm 0.263$   $\chi^2/\text{NDF}: 339002.9/22$

+ sign  $1649.011 \pm 0.239$   $\chi^2/\text{NDF}: 2292388.6/40$

All:  $1659.775 \pm 0.171$   $\chi^2/\text{NDF}: 4830018.7/81$

- sign  $1670.989 \pm 0.244$   $\chi^2/\text{NDF}: 2533505.7/40$

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 59.656 $\pm$ 27.080  $\chi^2$ /NDF: 15.3/16

Left Out: -18.790 $\pm$ 12.183  $\chi^2$ /NDF: 35.8/23

Right Out: -61.399 $\pm$ 27.011  $\chi^2$ /NDF: 19.7/17

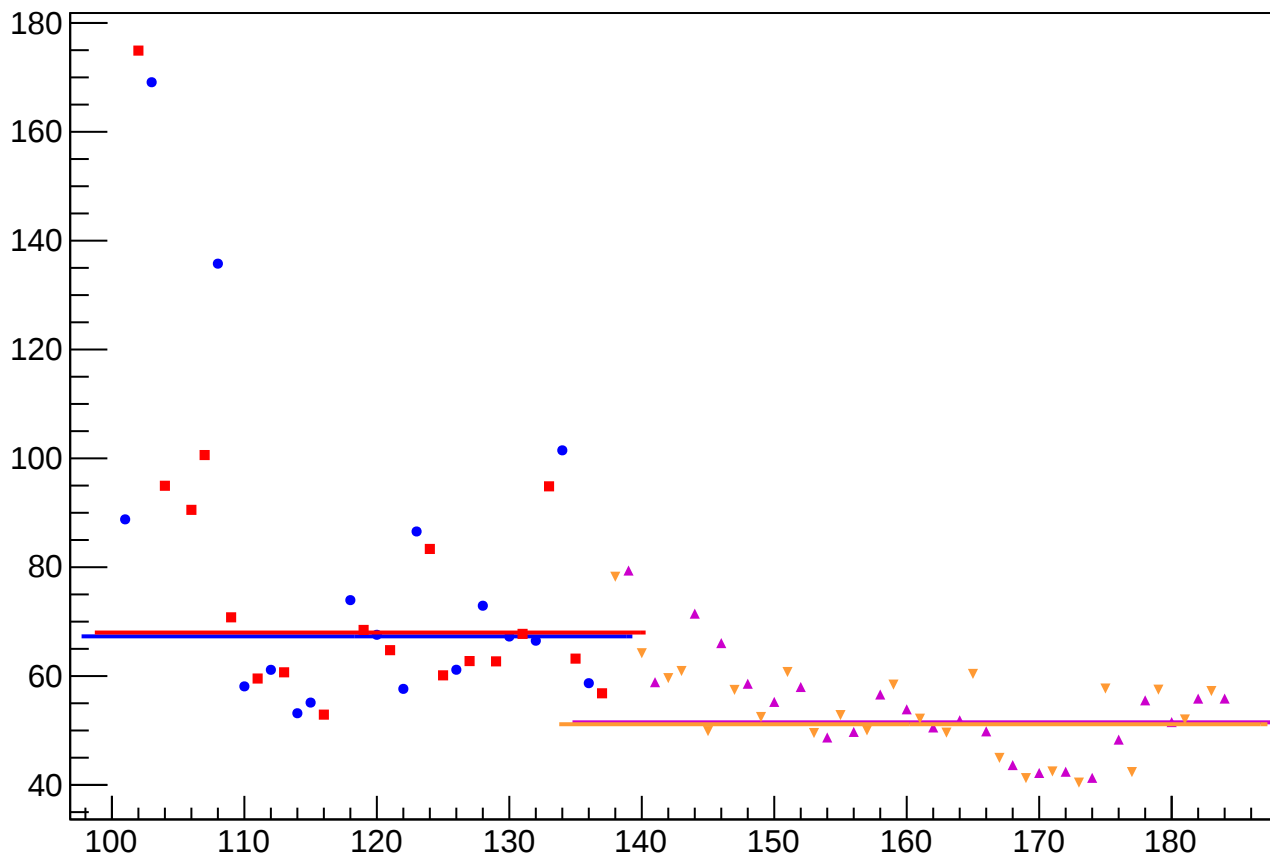
Left In: 11.418 $\pm$ 12.524  $\chi^2$ /NDF: 24.3/22

+ sign -5.585 $\pm$ 11.110  $\chi^2$ /NDF: 58.1/40

All: -3.572 $\pm$ 7.944  $\chi^2$ /NDF: 108.1/81

- sign -1.467 $\pm$ 11.362  $\chi^2$ /NDF: 49.9/40

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 67.297+/-0.019  $\chi^2/\text{NDF}$ : 841352.2/16

Left Out: 51.149+/-0.009  $\chi^2/\text{NDF}$ : 822679.4/23

Right Out: 67.998+/-0.019  $\chi^2/\text{NDF}$ : 754329.7/17

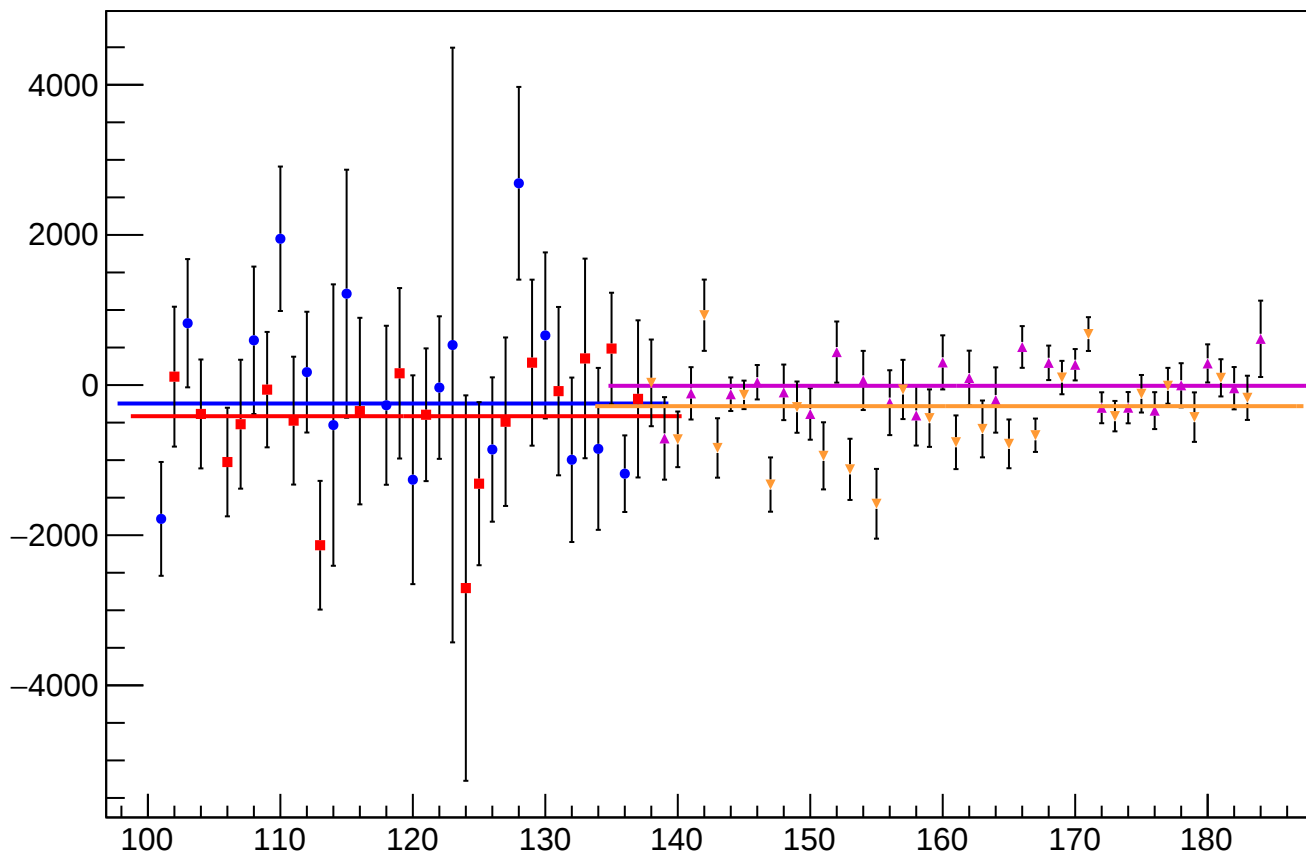
Left In: 51.501+/-0.009  $\chi^2/\text{NDF}$ : 818721.5/22

+ sign 53.867+/-0.008  $\chi^2/\text{NDF}$ : 2255484.9/40

All: 54.137+/-0.006  $\chi^2/\text{NDF}$ : 4445041.9/81

- sign 54.420+/-0.008  $\chi^2/\text{NDF}$ : 2187139.3/40

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In:  $-245.631 \pm 235.404$   $\chi^2/\text{NDF}$ : 23.8/16

Left Out:  $-281.018 \pm 60.477$   $\chi^2/\text{NDF}$ : 67.8/23

Right Out:  $-414.725 \pm 222.788$   $\chi^2/\text{NDF}$ : 9.4/17

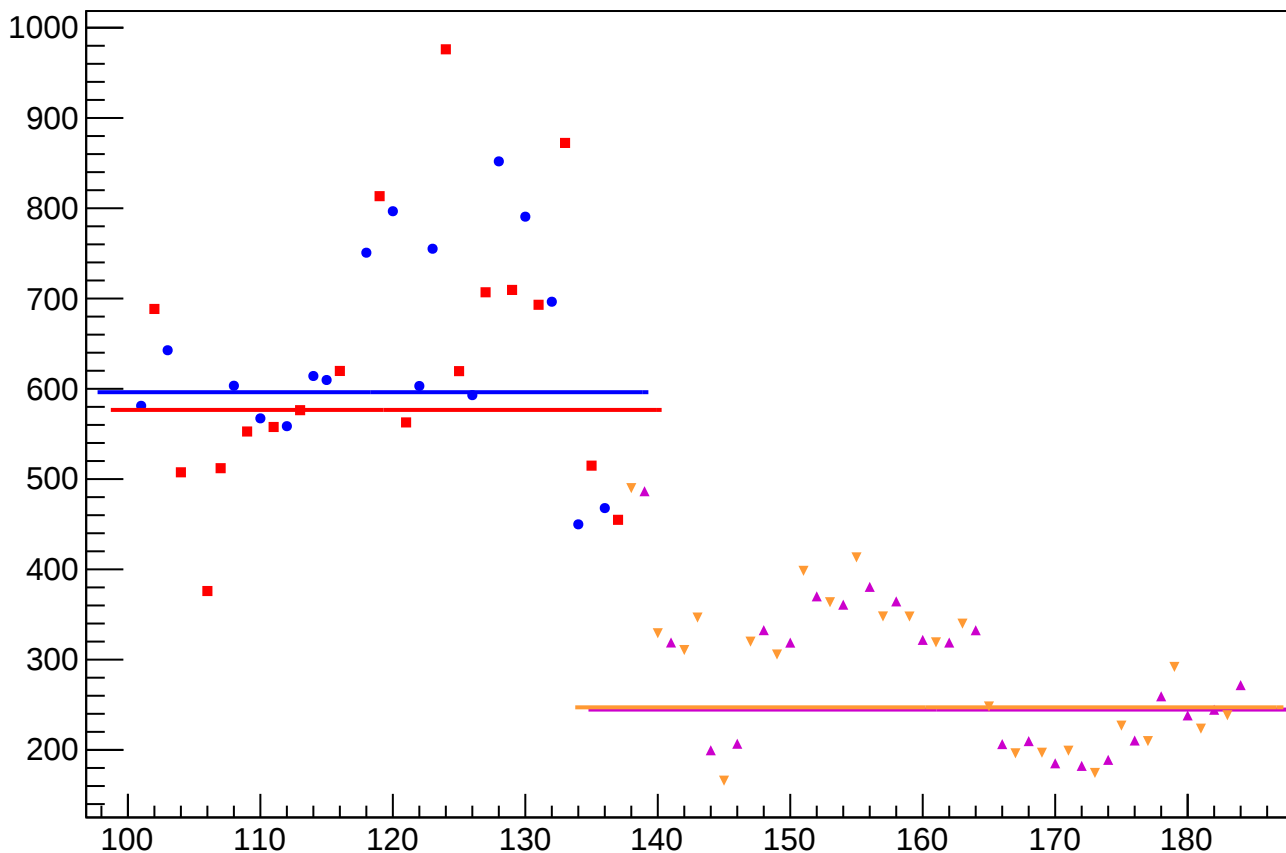
Left In:  $-9.866 \pm 60.601$   $\chi^2/\text{NDF}$ : 22.5/22

+ sign  $-278.827 \pm 58.575$   $\chi^2/\text{NDF}$ : 91.6/40

All:  $-158.088 \pm 41.384$   $\chi^2/\text{NDF}$ : 135.0/81

- sign  $-37.758 \pm 58.476$   $\chi^2/\text{NDF}$ : 34.9/40

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In:  $596.246 \pm 0.166$   $\chi^2/\text{NDF}$ : 422153.3/16

Left Out:  $247.159 \pm 0.043$   $\chi^2/\text{NDF}$ : 2911749.4/23

Right Out:  $576.614 \pm 0.158$   $\chi^2/\text{NDF}$ : 573658.2/17

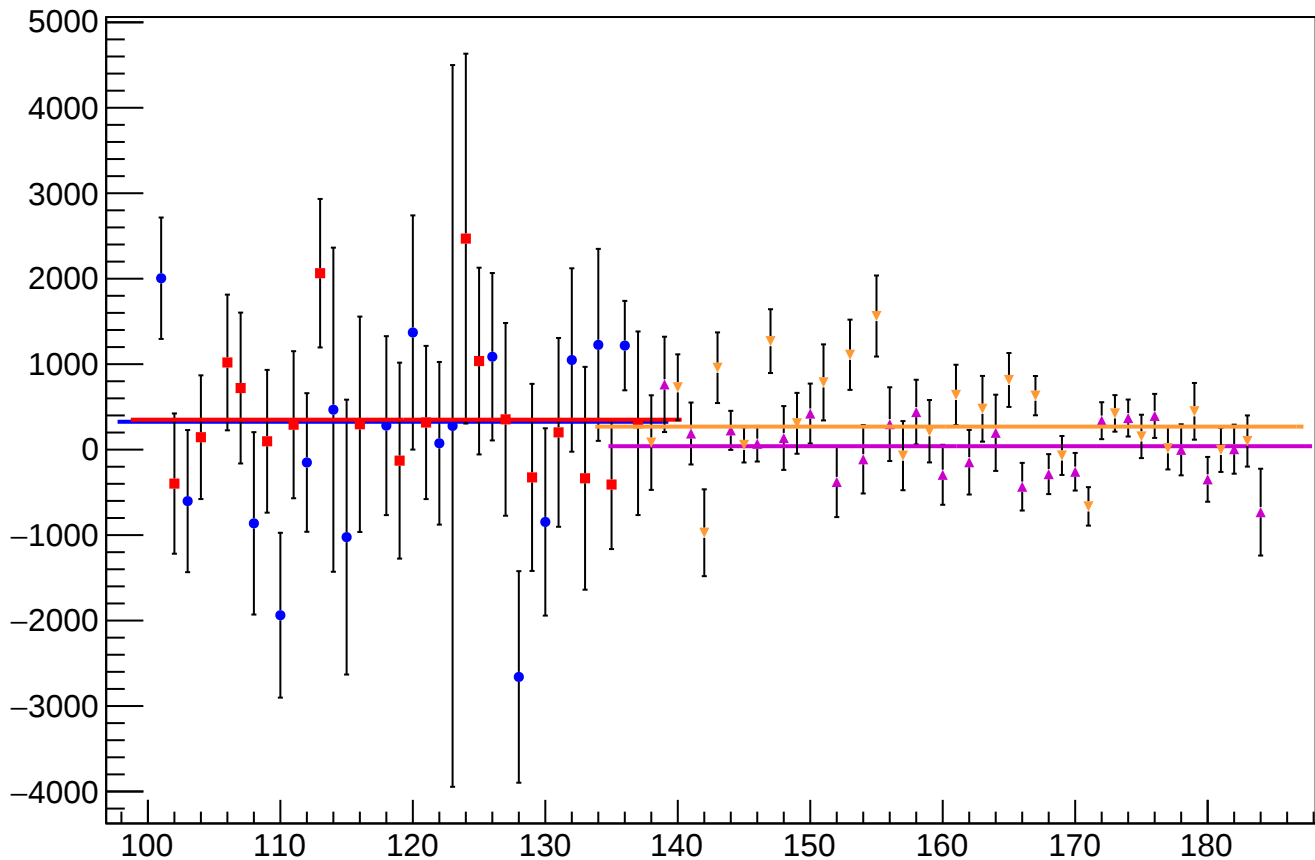
Left In:  $244.671 \pm 0.043$   $\chi^2/\text{NDF}$ : 2439501.9/22

+ sign  $268.773 \pm 0.041$   $\chi^2/\text{NDF}$ : 7459730.4/40

All:  $268.155 \pm 0.029$   $\chi^2/\text{NDF}$ : 14607361.6/83

- sign  $267.539 \pm 0.041$   $\chi^2/\text{NDF}$ : 7147187.0/40

# asym\_sam\_37\_dd\_mean vs Slug



Right In: 326.077 $\pm$ 235.599  $\chi^2$ /NDF: 26.9/16

Left Out: 269.168 $\pm$ 62.128  $\chi^2$ /NDF: 62.0/23

Right Out: 350.392 $\pm$ 225.254  $\chi^2$ /NDF: 9.0/17

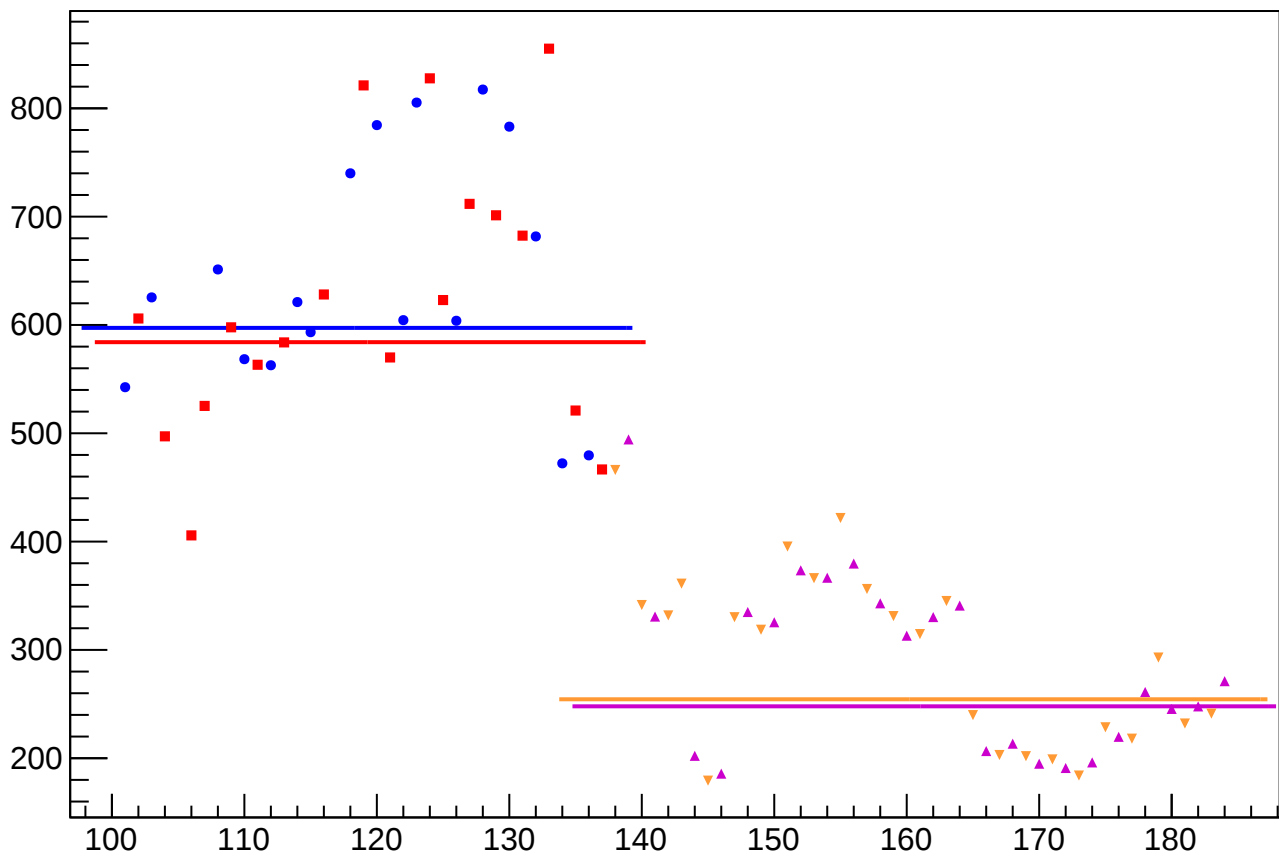
Left In: 40.015 $\pm$ 61.495  $\chi^2$ /NDF: 25.0/22

+ sign 272.868 $\pm$ 60.075  $\chi^2$ /NDF: 89.0/40

All: 165.877 $\pm$ 42.211  $\chi^2$ /NDF: 131.0/81

- sign 61.543 $\pm$ 59.324  $\chi^2$ /NDF: 35.8/40

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 254.418 $\pm$ 0.044  $\chi^2$ /NDF: 2629922.0/23

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

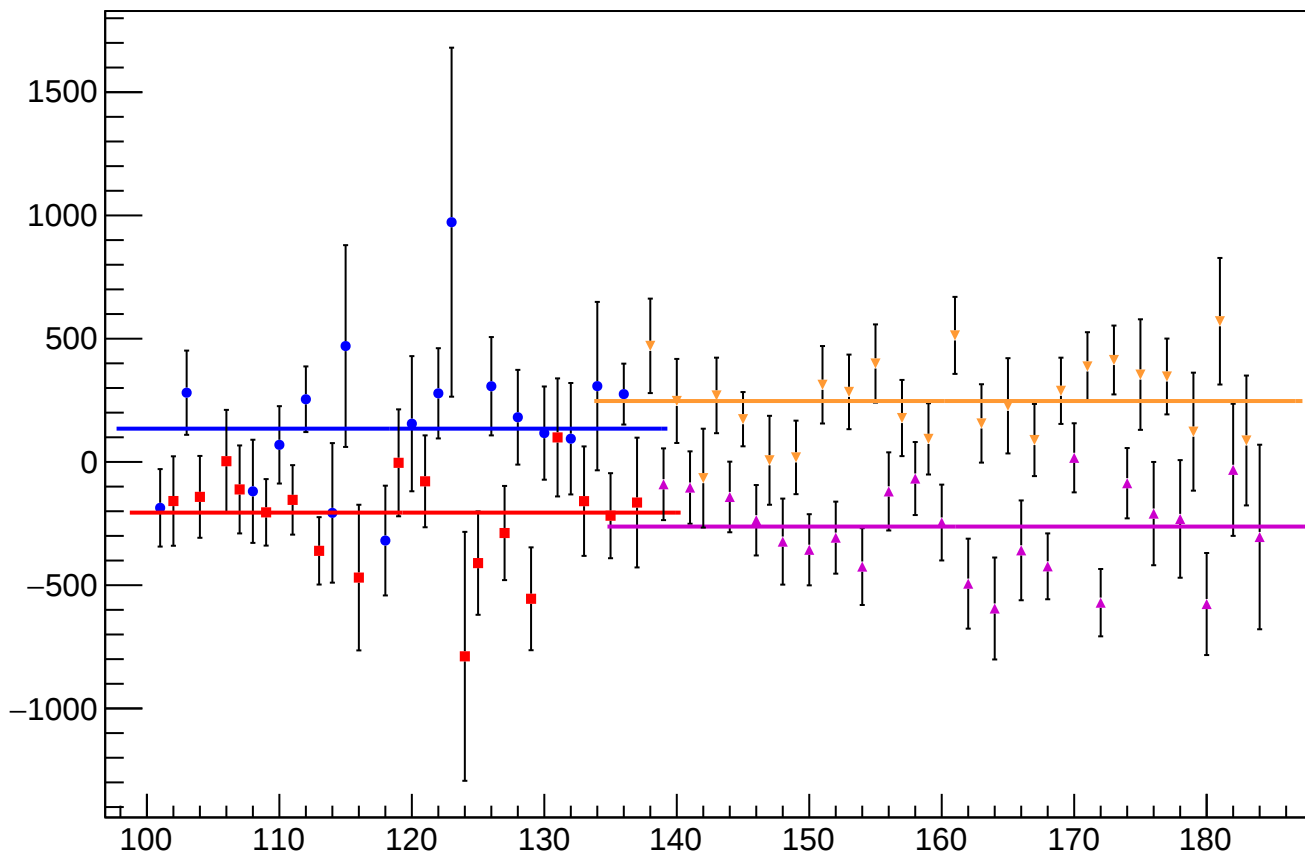
Left In: 247.919 $\pm$ 0.043  $\chi^2$ /NDF: 2374698.8/22

+ sign 276.712 $\pm$ 0.042  $\chi^2$ /NDF: 6954255.5/40

All: 273.940 $\pm$ 0.030  $\chi^2$ /NDF: 13930380.7/83

- sign 271.237 $\pm$ 0.042  $\chi^2$ /NDF: 6967717.7/40

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 135.029 $\pm$ 47.025  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: 247.080 $\pm$ 32.922  $\chi^2/\text{NDF}$ : 20.7/23

Right Out: -205.590 $\pm$ 44.536  $\chi^2/\text{NDF}$ : 12.0/17

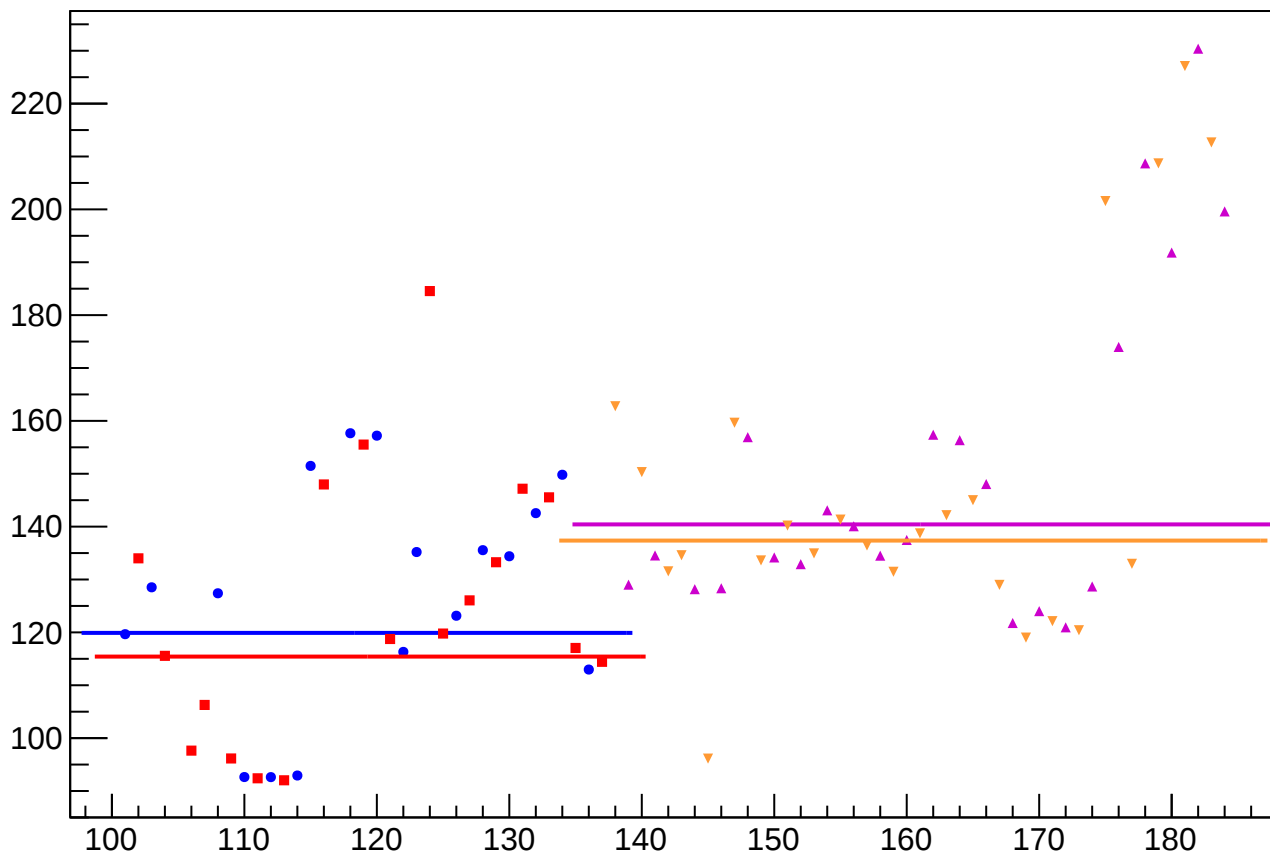
Left In: -262.179 $\pm$ 34.097  $\chi^2/\text{NDF}$ : 27.2/22

+ sign 210.224 $\pm$ 26.969  $\chi^2/\text{NDF}$ : 42.6/40

All: -14.652 $\pm$ 19.107  $\chi^2/\text{NDF}$ : 222.4/81

- sign -241.267 $\pm$ 27.073  $\chi^2/\text{NDF}$ : 40.2/40

dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 119.903+/-0.033  $\chi^2/\text{NDF}$ : 345510.5/16

Left Out: 137.361+/-0.023  $\chi^2/\text{NDF}$ :1220836.6/23

Right Out: 115.422+/-0.031  $\chi^2/\text{NDF}$ : 418100.5/17

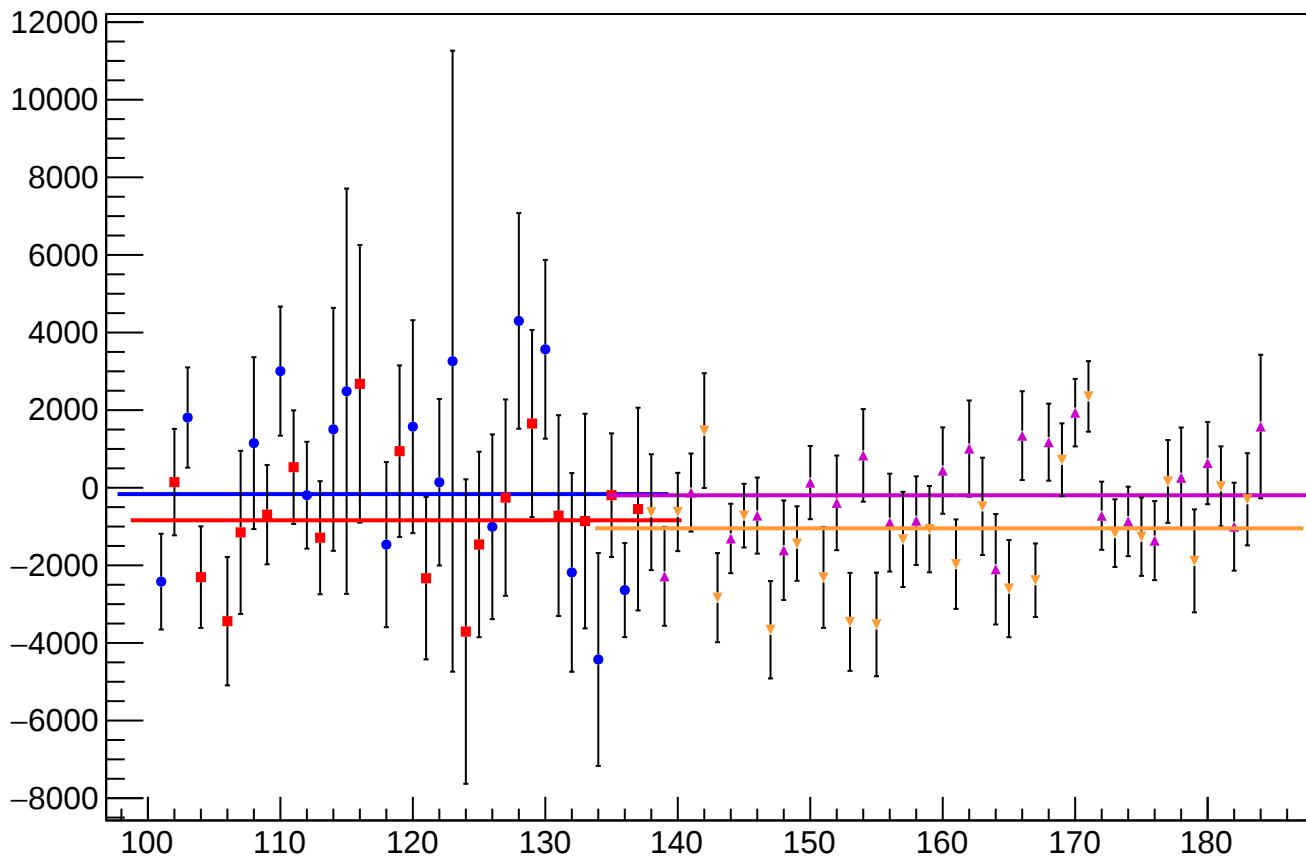
Left In: 140.421+/-0.024  $\chi^2/\text{NDF}$ :842288.1/22

+ sign 131.619+/-0.019  $\chi^2/\text{NDF}$ : 1751330.1/40

All: 131.402+/-0.014  $\chi^2/\text{NDF}$ : 3409263.4/81

- sign 131.183+/-0.019  $\chi^2/\text{NDF}$ : 1657672.5/40

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In:  $-163.538 \pm 469.592$   $\chi^2/\text{NDF}$ : 23.7/16

Left Out:  $-1045.490 \pm 223.762$   $\chi^2/\text{NDF}$ : 43.5/23

Right Out:  $-839.187 \pm 440.476$   $\chi^2/\text{NDF}$ : 9.3/17

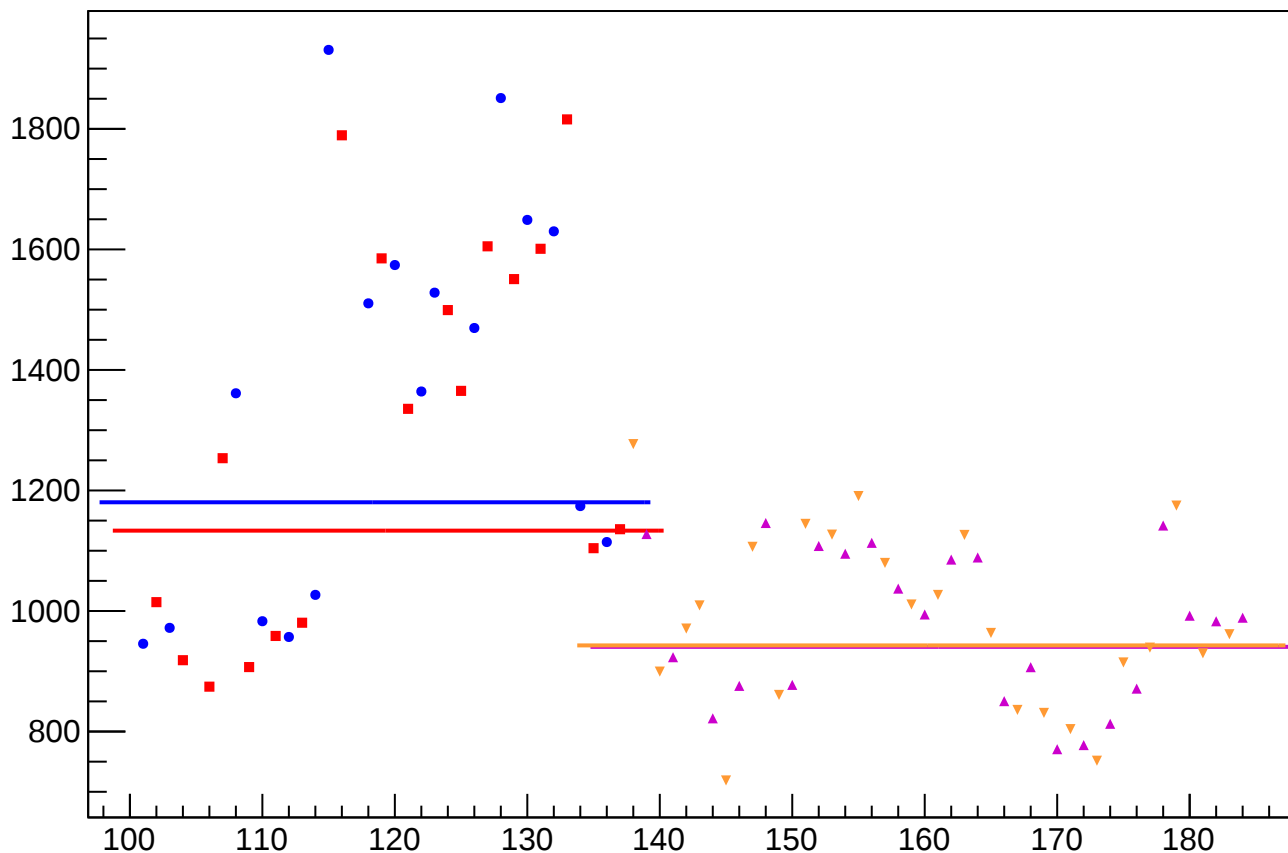
Left In:  $-194.721 \pm 226.403$   $\chi^2/\text{NDF}$ : 24.4/22

+ sign  $-882.293 \pm 202.001$   $\chi^2/\text{NDF}$ : 70.0/40

All:  $-604.969 \pm 142.610$   $\chi^2/\text{NDF}$ : 109.2/81

- sign  $-329.402 \pm 201.361$   $\chi^2/\text{NDF}$ : 35.4/40

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1180.403 $\pm$ 0.332  $\chi^2$ /NDF: 668845.5/16

Left Out: 942.906 $\pm$ 0.158  $\chi^2$ /NDF: 814975.6/23

Right Out: 1133.347 $\pm$ 0.311  $\chi^2$ /NDF: 760395.8/17

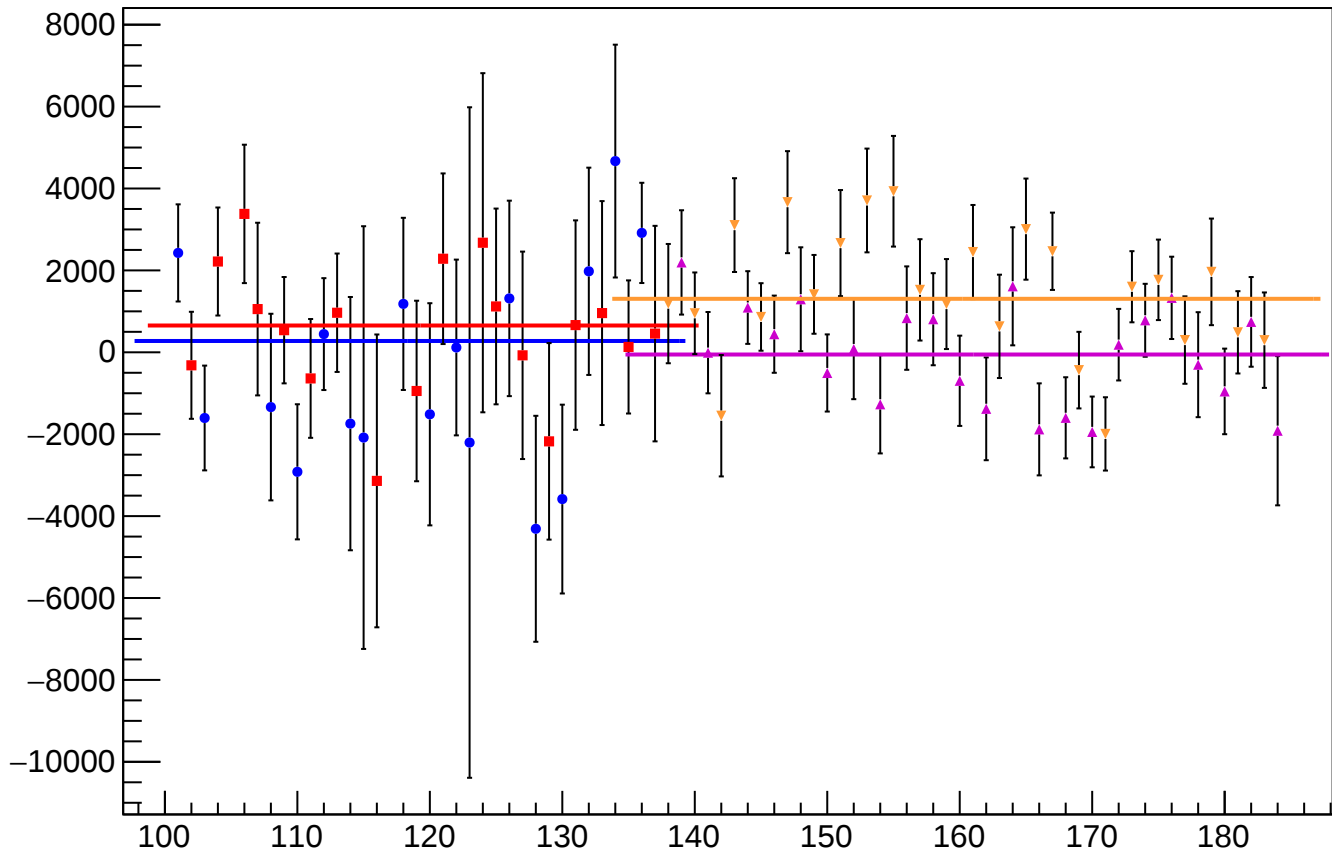
Left In: 940.516 $\pm$ 0.160  $\chi^2$ /NDF: 591572.1/22

+ sign 986.853 $\pm$ 0.143  $\chi^2$ /NDF: 1900730.0/40

All: 983.824 $\pm$ 0.101  $\chi^2$ /NDF: 3556791.7/81

- sign 980.814 $\pm$ 0.142  $\chi^2$ /NDF: 1655165.1/40

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 276.422+/-466.424  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: 1306.369+/-222.217  $\chi^2/\text{NDF}$ :43.4/23

Right Out: 654.406+/-439.824  $\chi^2/\text{NDF}$ : 9.6/17

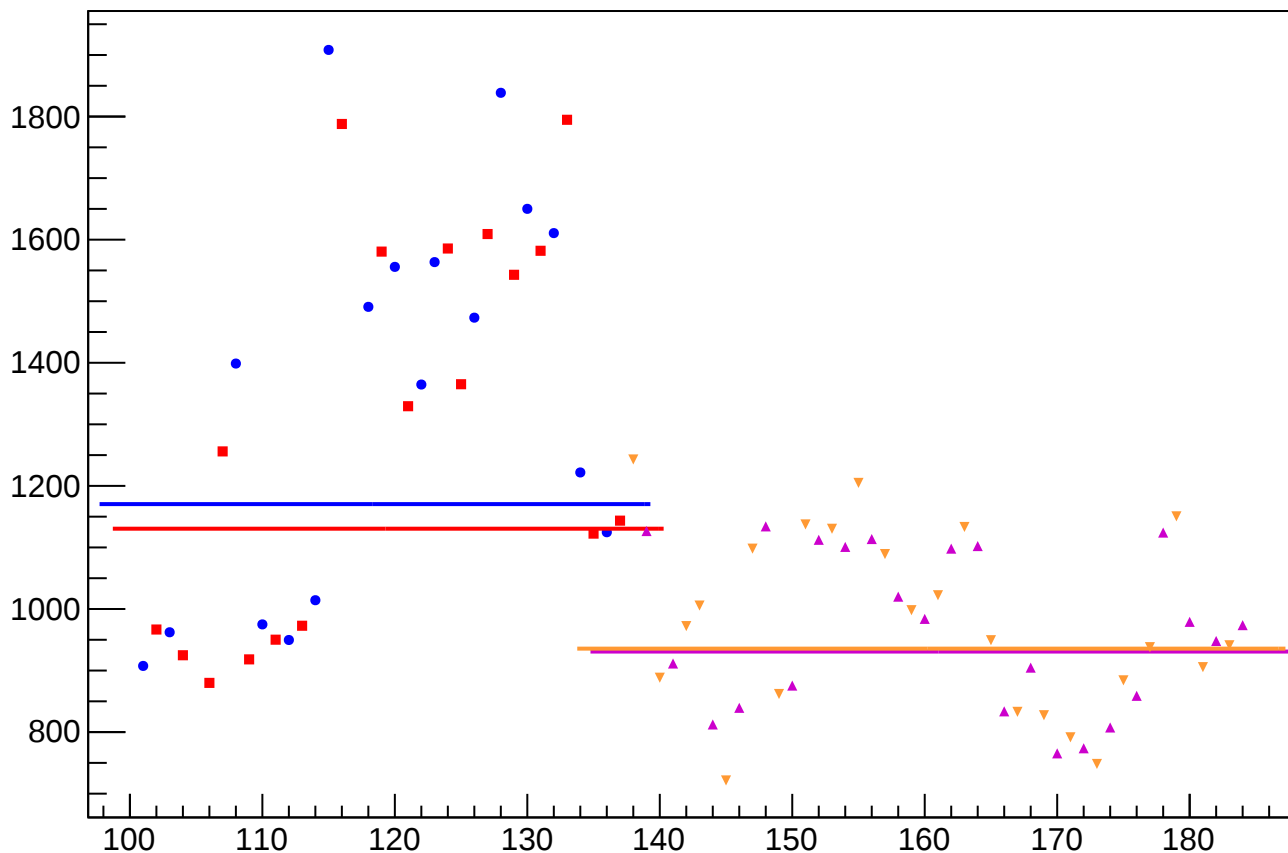
Left In: -53.940+/-224.371  $\chi^2/\text{NDF}$ :26.4/22

+ sign 1115.836+/-200.613  $\chi^2/\text{NDF}$ : 71.6/40

All: 602.178+/-141.590  $\chi^2/\text{NDF}$ : 122.8/81

- sign 92.334+/-199.866  $\chi^2/\text{NDF}$ : 38.0/40

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1170.404+/-0.330  $\chi^2/\text{NDF}$ : 705486.8/16

Left Out: 935.599+/-0.157  $\chi^2/\text{NDF}$ : 813282.1/23

Right Out: 1130.456+/-0.311  $\chi^2/\text{NDF}$ : 763027.2/17

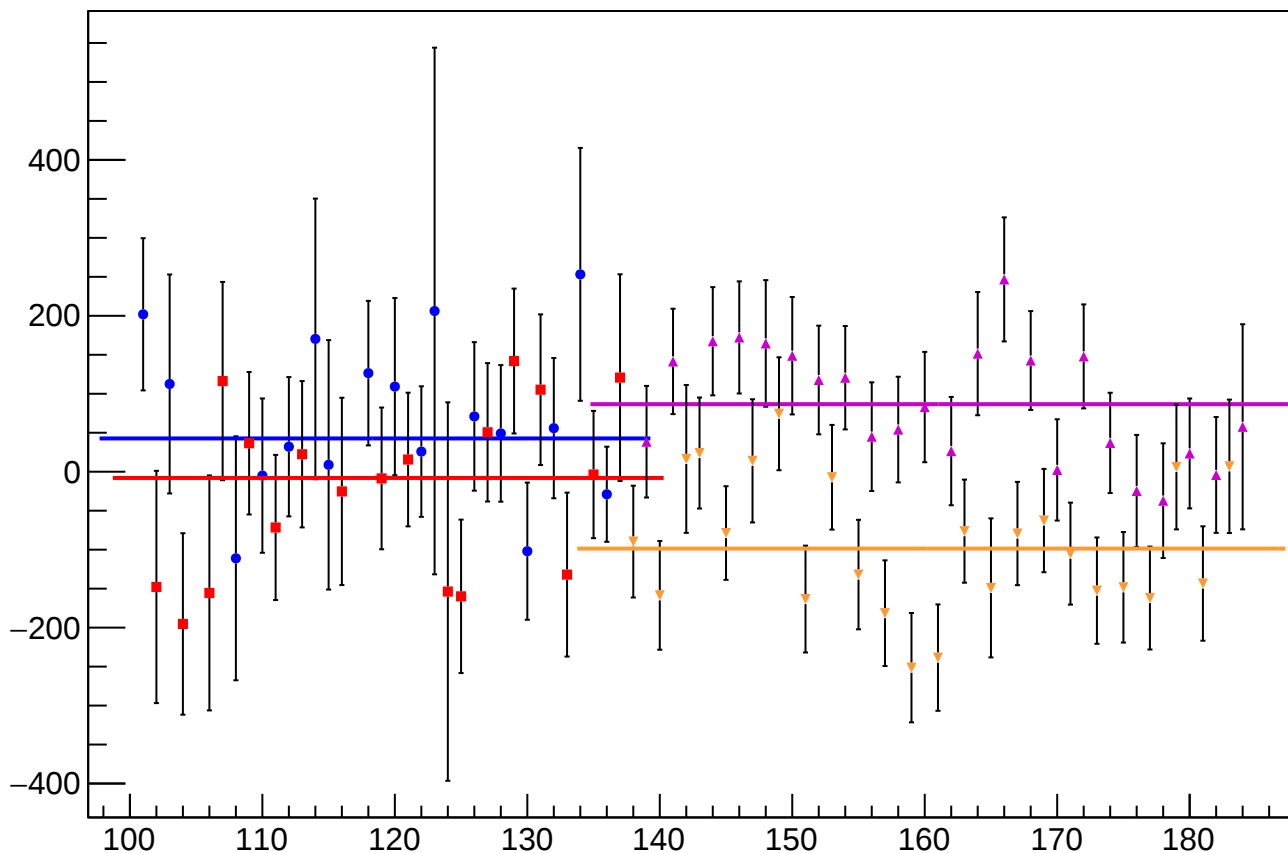
Left In: 930.854+/-0.159  $\chi^2/\text{NDF}$ : 621985.5/22

+ sign 979.036+/-0.142  $\chi^2/\text{NDF}$ : 1931860.4/40

All: 975.541+/-0.100  $\chi^2/\text{NDF}$ : 3644934.3/81

- sign 972.072+/-0.141  $\chi^2/\text{NDF}$ : 1711864.5/40

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In:  $42.674 \pm 24.701$   $\chi^2/\text{NDF}$ : 12.0/16

Left Out:  $-98.659 \pm 14.471$   $\chi^2/\text{NDF}$ : 32.9/23

Right Out:  $-7.995 \pm 24.492$   $\chi^2/\text{NDF}$ : 15.8/17

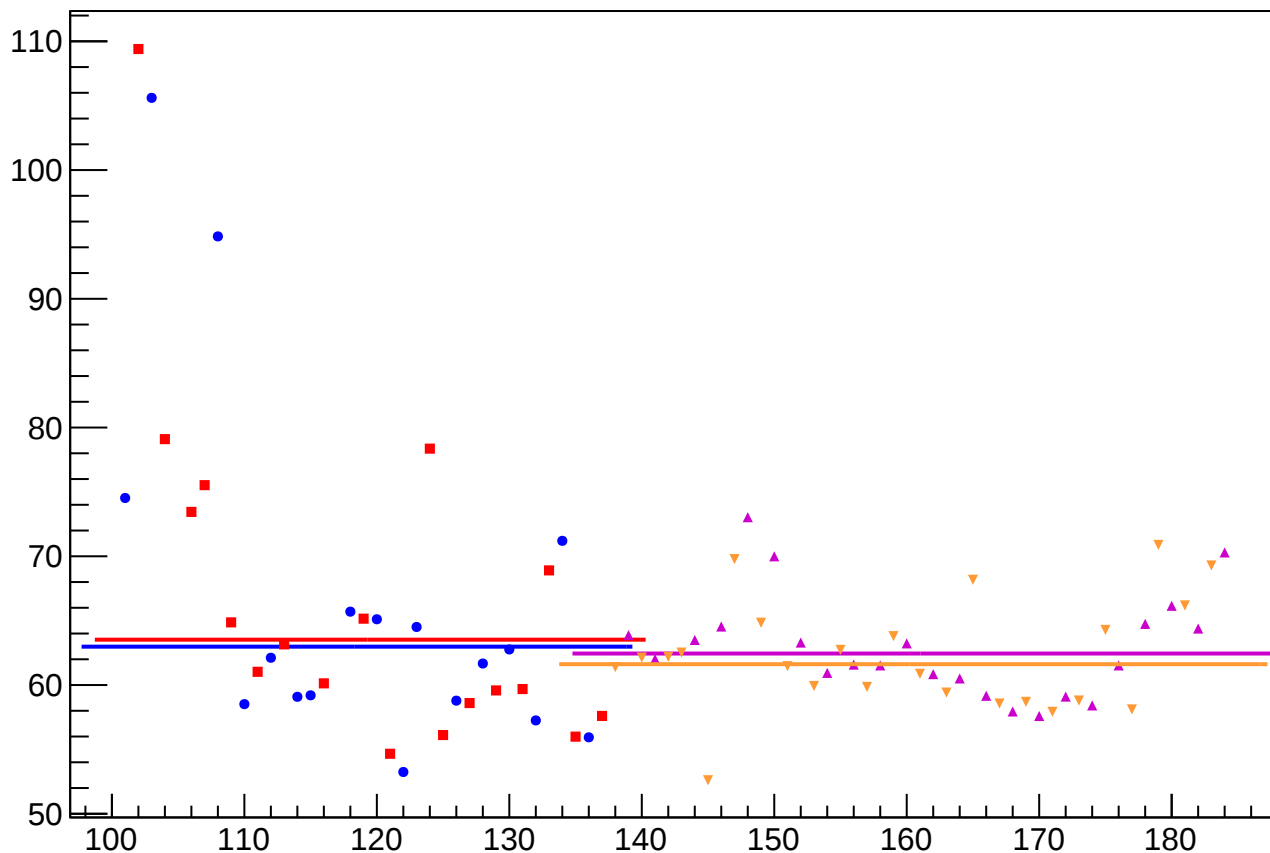
Left In:  $86.657 \pm 14.916$   $\chi^2/\text{NDF}$ : 23.5/22

+ sign  $-62.544 \pm 12.486$   $\chi^2/\text{NDF}$ : 69.3/40

All:  $-1.986 \pm 8.917$   $\chi^2/\text{NDF}$ : 167.4/81

- sign  $61.050 \pm 12.739$   $\chi^2/\text{NDF}$ : 50.2/40

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In:  $62.980 \pm 0.017$   $\chi^2/\text{NDF}$ : 375263.3/16

Left Out:  $61.618 \pm 0.010$   $\chi^2/\text{NDF}$ : 166328.8/23

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}$ : 335430.9/17

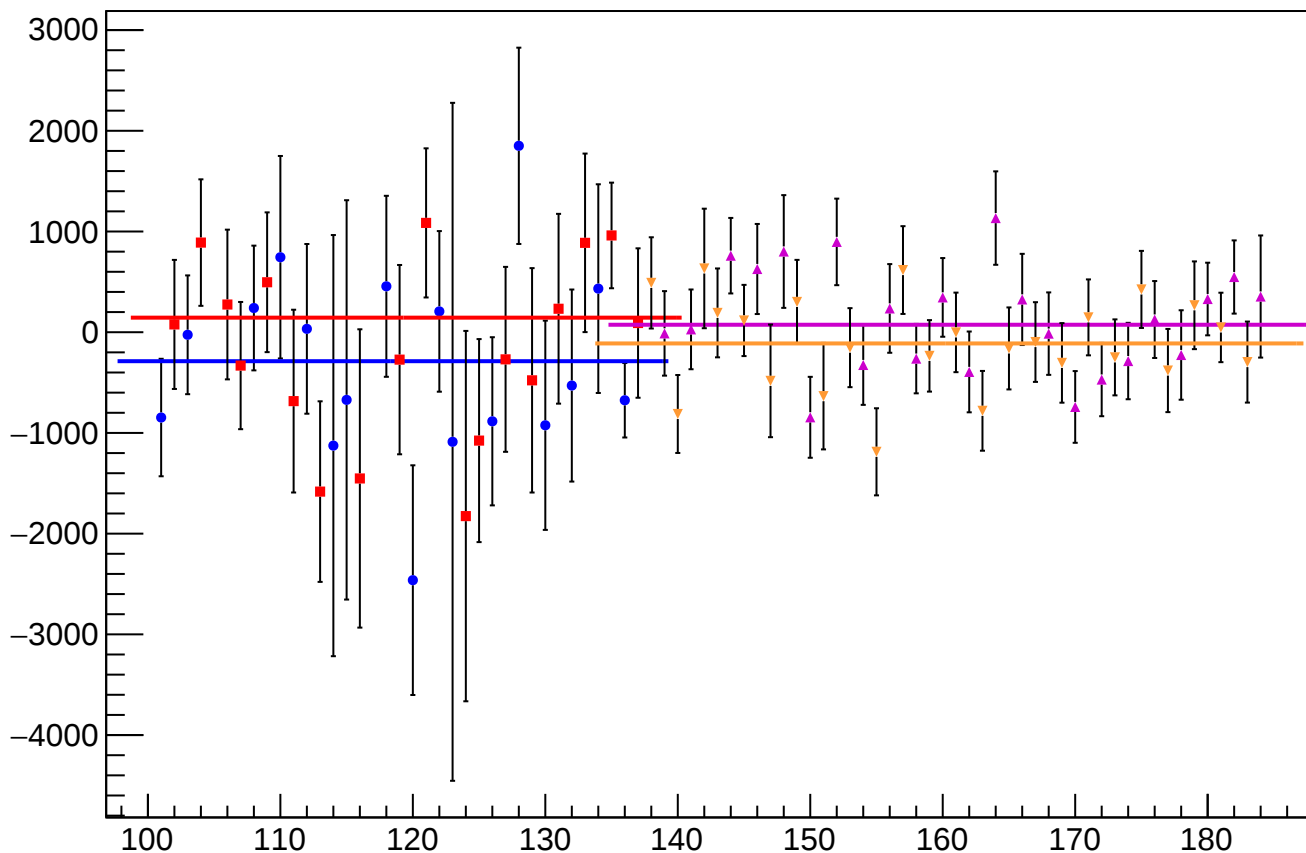
Left In:  $62.447 \pm 0.011$   $\chi^2/\text{NDF}$ : 115477.5/22

+ sign  $61.966 \pm 0.009$   $\chi^2/\text{NDF}$ : 546122.2/40

All:  $62.344 \pm 0.006$   $\chi^2/\text{NDF}$ : 1003589.6/81

- sign  $62.738 \pm 0.009$   $\chi^2/\text{NDF}$ : 453718.5/40

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In:  $-287.682 \pm 189.888$   $\chi^2/\text{NDF}$ : 15.4/16

Left Out:  $-111.441 \pm 83.531$   $\chi^2/\text{NDF}$ : 26.4/23

Right Out:  $144.624 \pm 187.777$   $\chi^2/\text{NDF}$ : 16.1/17

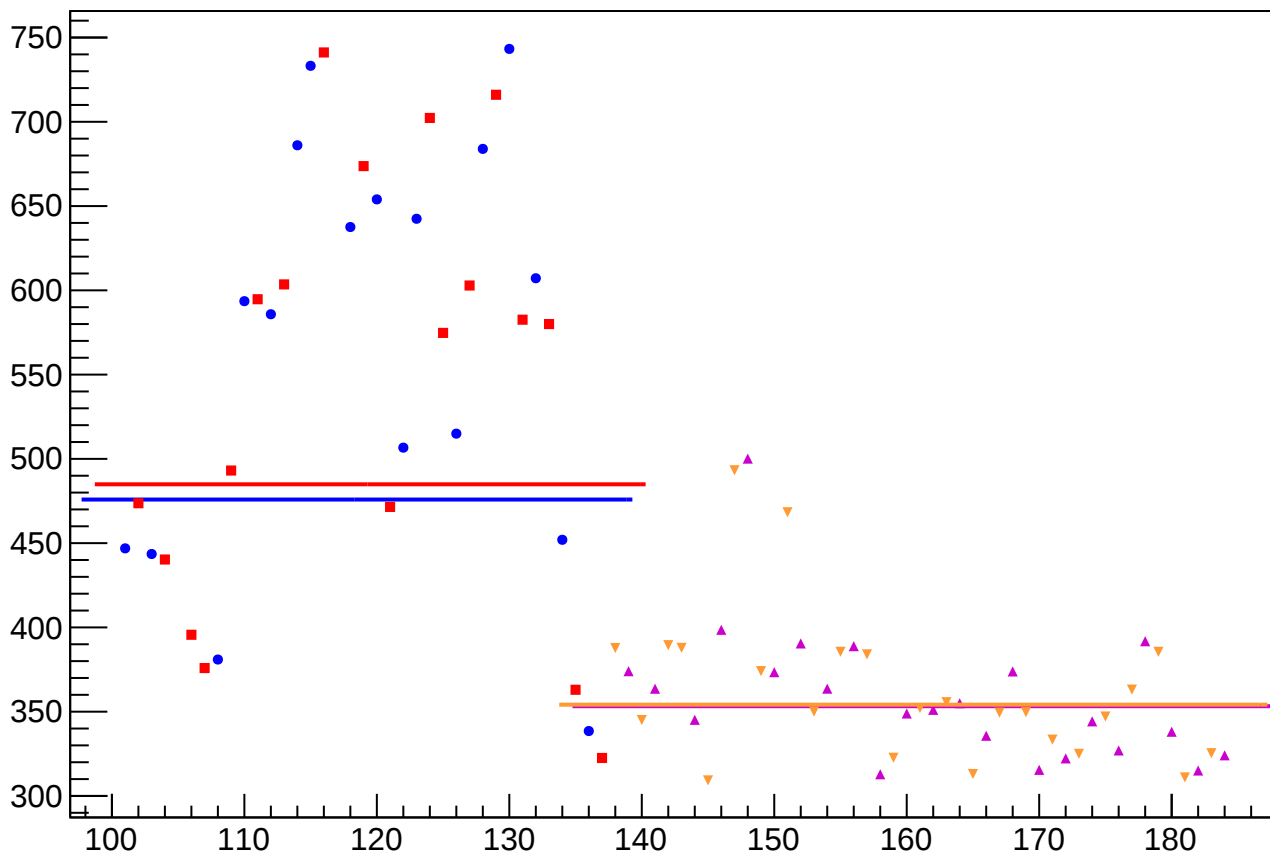
Left In:  $74.139 \pm 84.673$   $\chi^2/\text{NDF}$ : 36.3/22

+ sign  $-140.016 \pm 76.460$   $\chi^2/\text{NDF}$ : 42.5/40

All:  $-28.055 \pm 54.321$   $\chi^2/\text{NDF}$ : 99.3/81

- sign  $86.049 \pm 77.189$   $\chi^2/\text{NDF}$ : 52.5/40

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 475.871 $\pm$ 0.134     $\chi^2/\text{NDF}$ : 837808.5/16

Left Out: 354.156 $\pm$ 0.059     $\chi^2/\text{NDF}$ : 413212.5/23

Right Out: 484.914 $\pm$ 0.133     $\chi^2/\text{NDF}$ : 716315.8/17

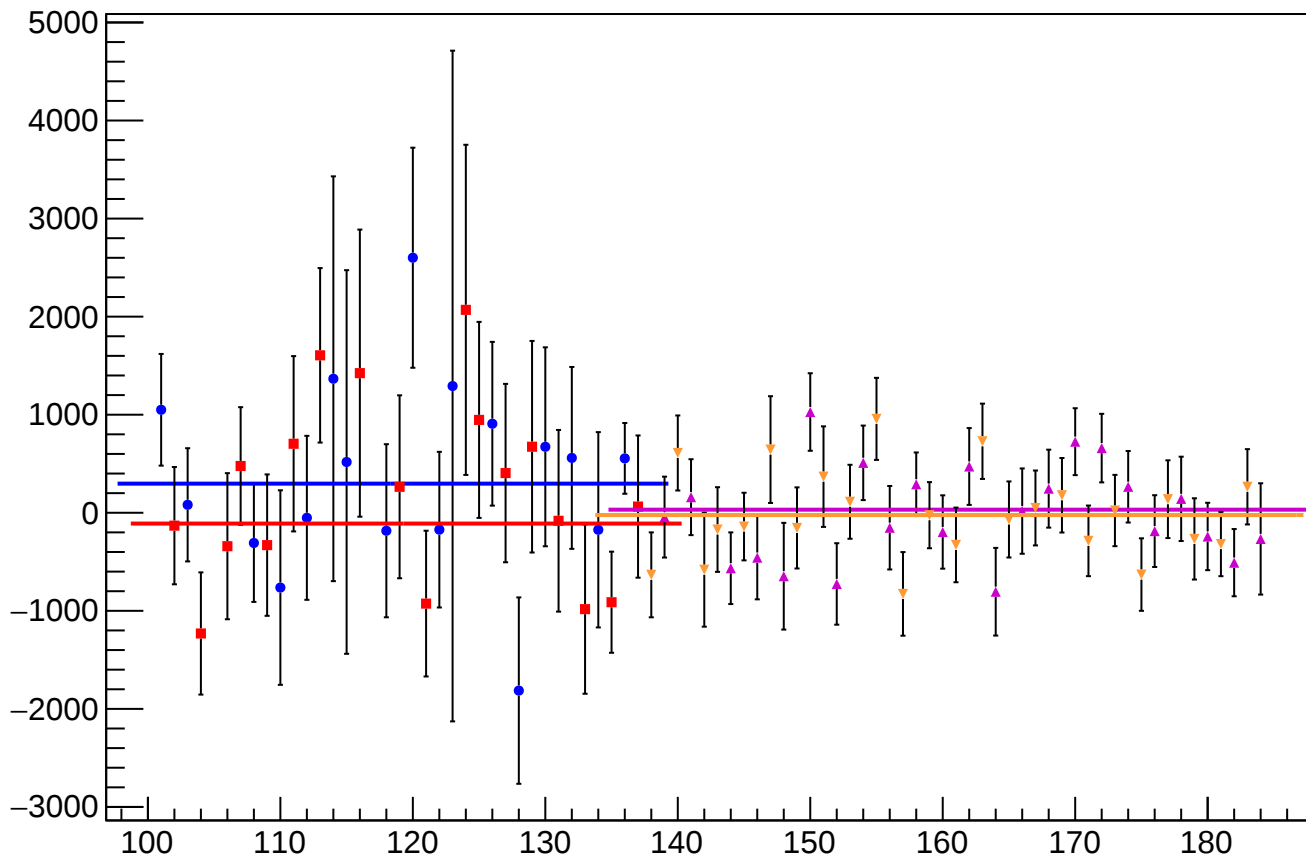
Left In: 353.246 $\pm$ 0.060     $\chi^2/\text{NDF}$ : 328781.6/22

+ sign 373.890 $\pm$ 0.054     $\chi^2/\text{NDF}$ : 1939505.4/40

All: 374.685 $\pm$ 0.038     $\chi^2/\text{NDF}$ : 3802217.7/81

- sign 375.495 $\pm$ 0.055     $\chi^2/\text{NDF}$ : 1862276.3/40

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In:  $296.984 \pm 185.975$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $-23.144 \pm 80.591$   $\chi^2/\text{NDF}$ : 27.2/23

Right Out:  $-110.141 \pm 184.400$   $\chi^2/\text{NDF}$ : 18.5/17

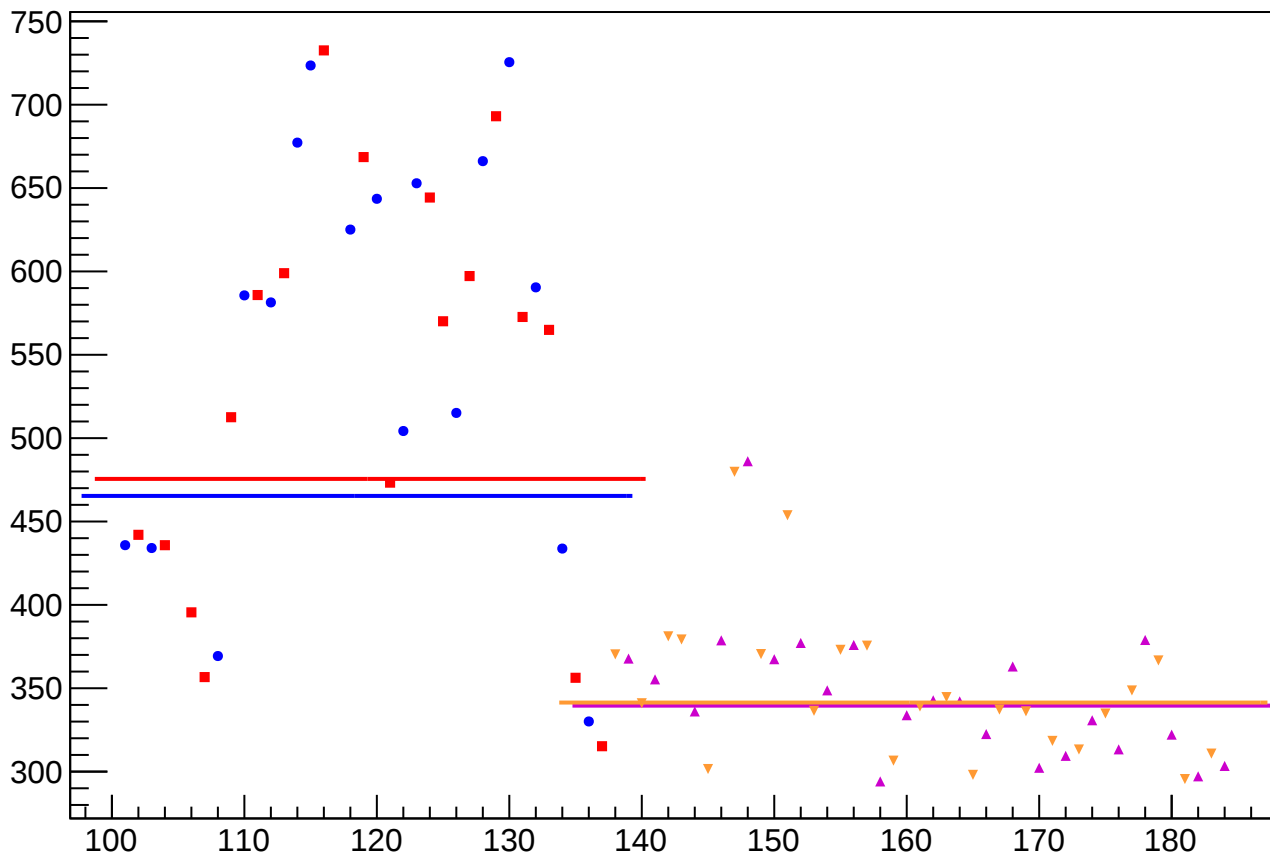
Left In:  $31.531 \pm 81.476$   $\chi^2/\text{NDF}$ : 34.8/22

+ sign  $27.467 \pm 73.947$   $\chi^2/\text{NDF}$ : 45.5/40

All:  $18.003 \pm 52.492$   $\chi^2/\text{NDF}$ : 99.4/81

- sign  $8.391 \pm 74.525$   $\chi^2/\text{NDF}$ : 53.8/40

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 465.356 $\pm$ 0.132  $\chi^2$ /NDF: 860420.4/16

Left Out: 341.420 $\pm$ 0.057  $\chi^2$ /NDF: 448202.7/23

Right Out: 475.559 $\pm$ 0.130  $\chi^2$ /NDF: 740849.9/17

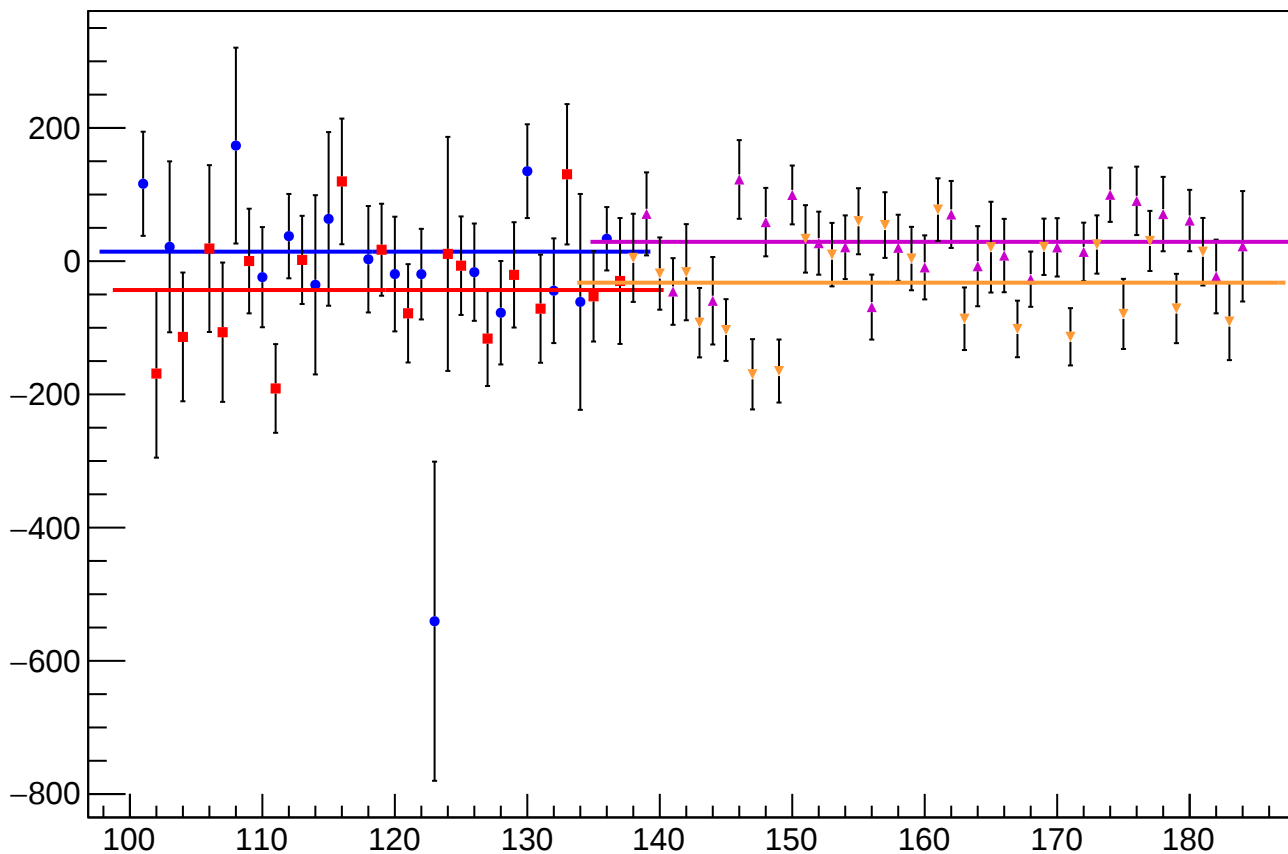
Left In: 339.571 $\pm$ 0.058  $\chi^2$ /NDF: 377816.0/22

+ sign 361.014 $\pm$ 0.052  $\chi^2$ /NDF: 2056406.3/40

All: 361.395 $\pm$ 0.037  $\chi^2$ /NDF: 4085219.0/81

- sign 361.783 $\pm$ 0.053  $\chi^2$ /NDF: 2028705.4/40

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $14.253 \pm 19.867$   $\chi^2/\text{NDF}$ : 14.8/16

Left Out:  $-32.306 \pm 10.155$   $\chi^2/\text{NDF}$ : 50.5/23

Right Out:  $-43.336 \pm 19.650$   $\chi^2/\text{NDF}$ : 16.2/17

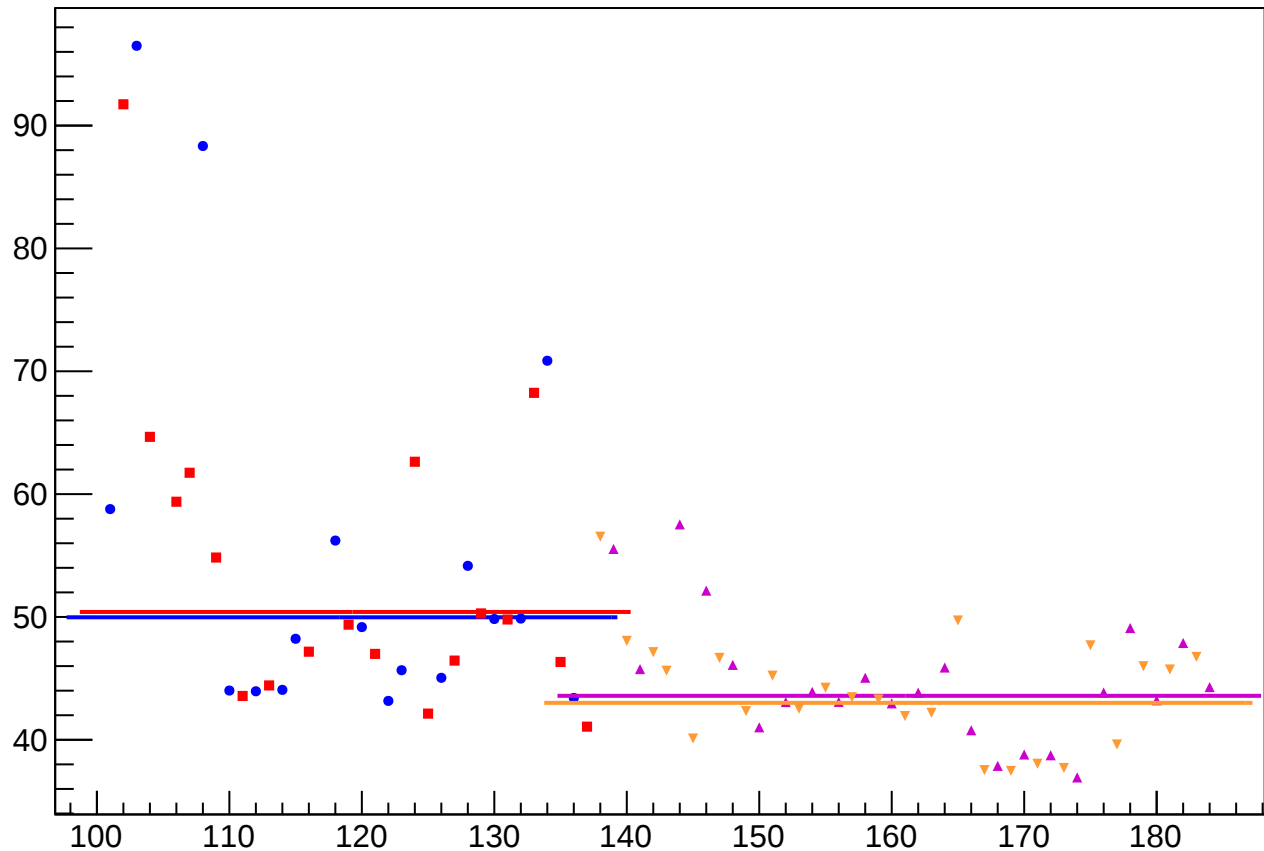
Left In:  $28.995 \pm 10.494$   $\chi^2/\text{NDF}$ : 24.1/22

+ sign  $-22.661 \pm 9.042$   $\chi^2/\text{NDF}$ : 69.6/40

All:  $-5.276 \pm 6.468$   $\chi^2/\text{NDF}$ : 128.0/81

- sign  $12.944 \pm 9.256$   $\chi^2/\text{NDF}$ : 50.8/40

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In:  $49.973 \pm 0.014$   $\chi^2/\text{NDF}$ : 578750.7/16

Left Out:  $43.008 \pm 0.007$   $\chi^2/\text{NDF}$ : 328111.6/23

Right Out:  $50.408 \pm 0.014$   $\chi^2/\text{NDF}$ : 467481.4/17

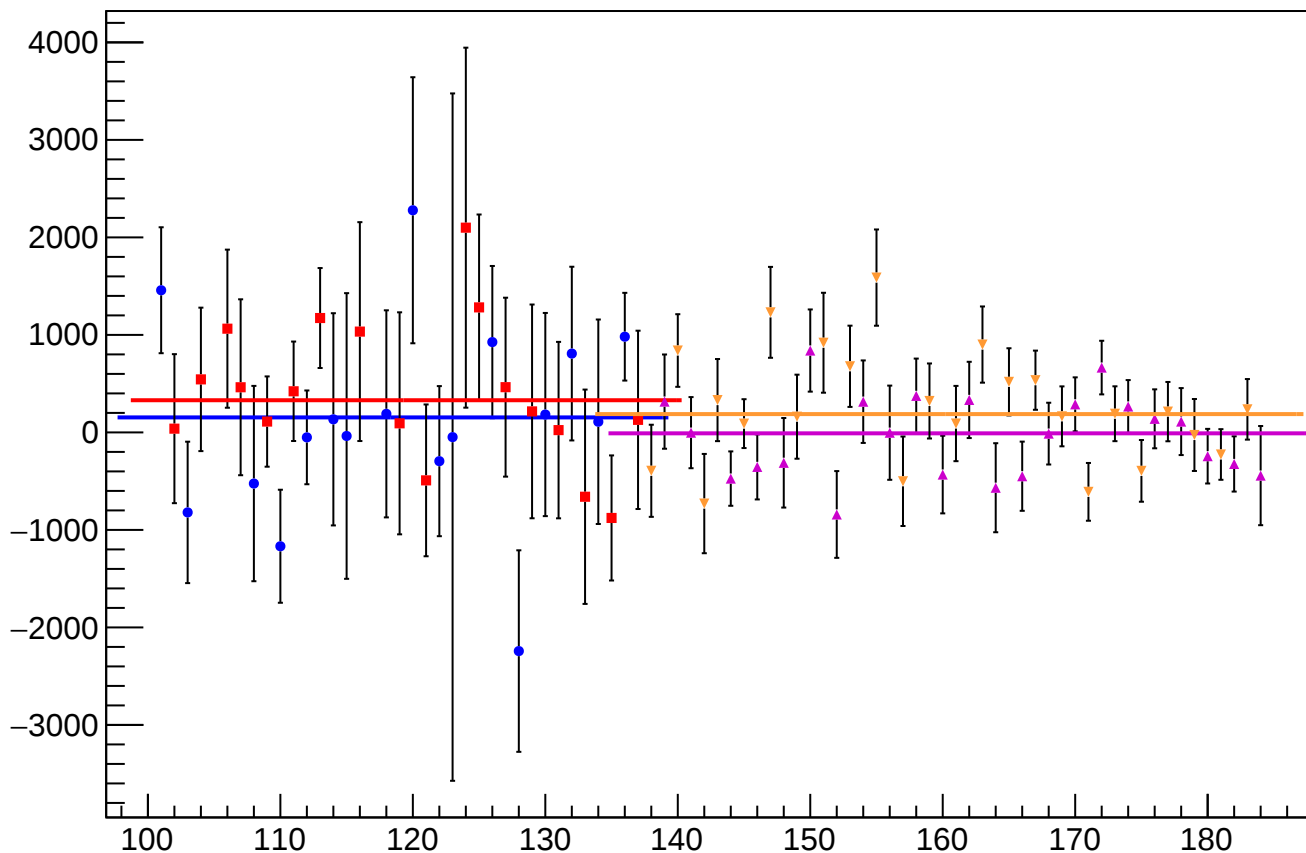
Left In:  $43.582 \pm 0.007$   $\chi^2/\text{NDF}$ : 403339.6/22

+ sign  $44.451 \pm 0.006$   $\chi^2/\text{NDF}$ : 1101740.7/40

All:  $44.766 \pm 0.005$   $\chi^2/\text{NDF}$ : 2165323.8/81

- sign  $45.097 \pm 0.007$   $\chi^2/\text{NDF}$ : 1058604.4/40

# asym\_sam\_15\_37\_dd\_correction\_mean vs Slug



Right In: 153.842 $\pm$ 189.963  $\chi^2/\text{NDF}$ : 24.8/16

Left Out: 187.828 $\pm$ 72.019  $\chi^2/\text{NDF}$ : 46.1/23

Right Out: 329.952 $\pm$ 179.795  $\chi^2/\text{NDF}$ : 12.1/17

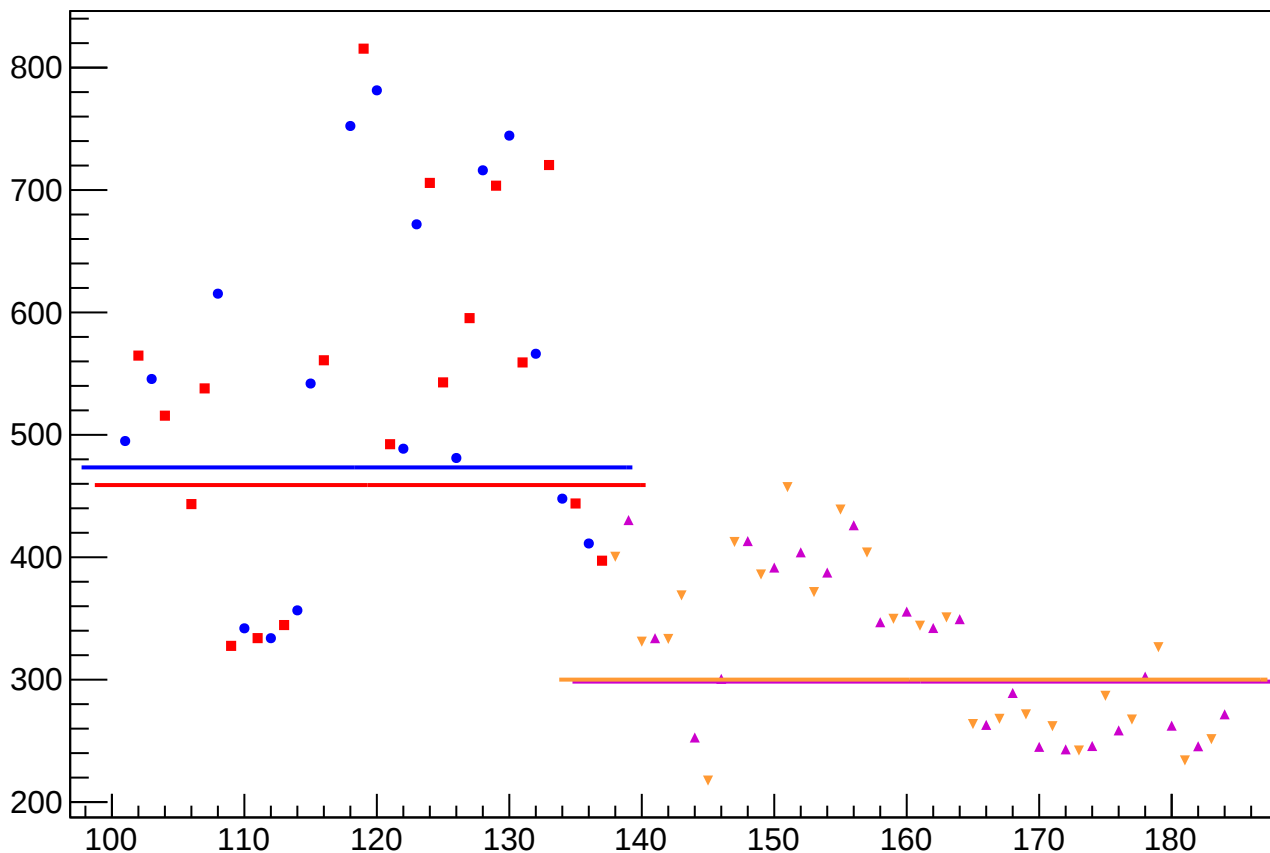
Left In: -9.477 $\pm$ 72.601  $\chi^2/\text{NDF}$ : 30.0/22

+ sign 183.557 $\pm$ 67.342  $\chi^2/\text{NDF}$ : 71.0/40

All: 110.809 $\pm$ 47.610  $\chi^2/\text{NDF}$ : 118.4/81

- sign 38.109 $\pm$ 67.320  $\chi^2/\text{NDF}$ : 45.1/40

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 473.406 $\pm$ 0.134  $\chi^2$ /NDF: 914927.8/16

Left Out: 300.044 $\pm$ 0.051  $\chi^2$ /NDF:1574487.4/23

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

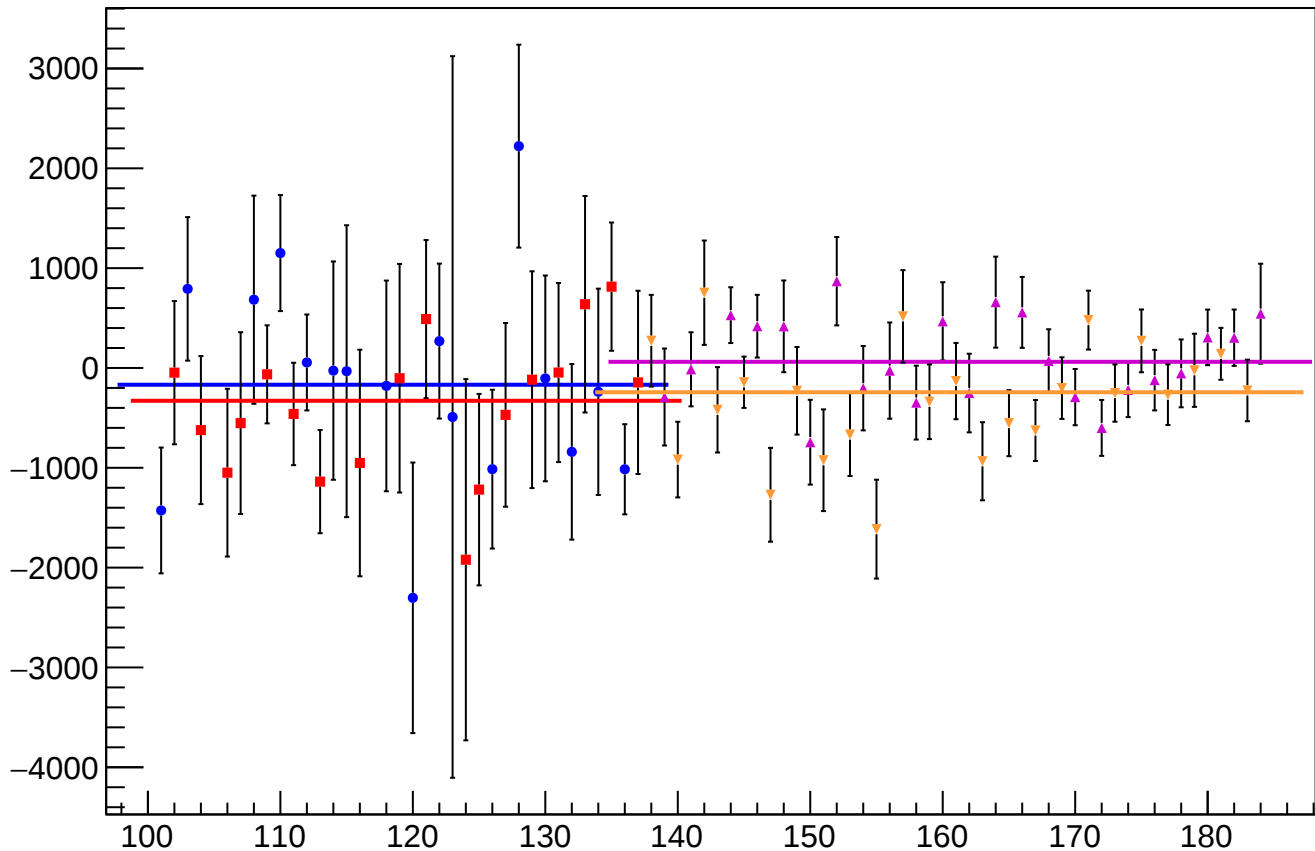
Left In: 298.418 $\pm$ 0.051  $\chi^2$ /NDF:1304411.3/22

+ sign 321.830 $\pm$ 0.048  $\chi^2$ /NDF: 3945811.3/40

All: 321.380 $\pm$ 0.034  $\chi^2$ /NDF: 7628190.0/81

- sign 320.929 $\pm$ 0.048  $\chi^2$ /NDF: 3682199.9/40

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $-168.049 \pm 189.758$   $\chi^2/\text{NDF}$ : 25.4/16

Left Out:  $-243.279 \pm 72.118$   $\chi^2/\text{NDF}$ : 43.3/23

Right Out:  $-328.598 \pm 181.559$   $\chi^2/\text{NDF}$ : 11.1/17

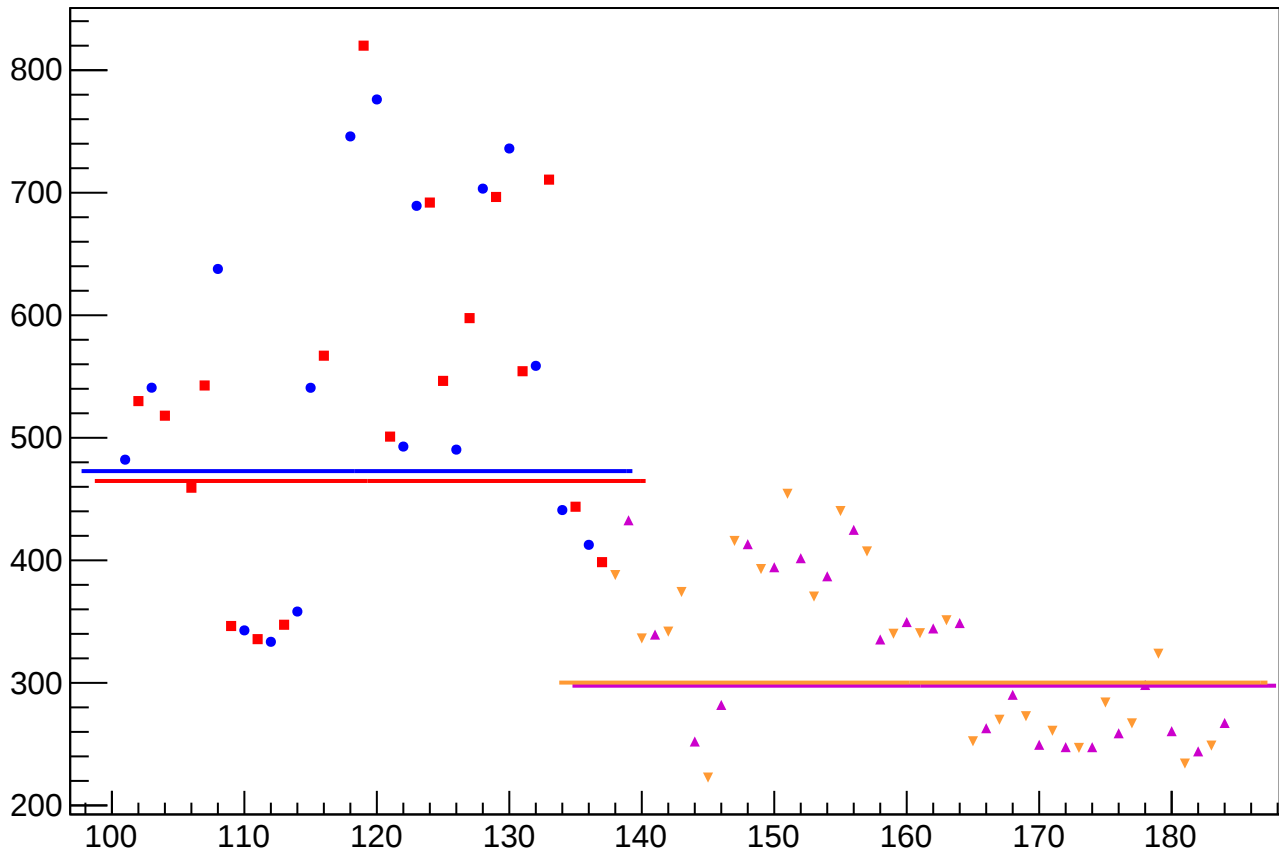
Left In:  $61.707 \pm 72.478$   $\chi^2/\text{NDF}$ : 30.3/22

+ sign  $-233.785 \pm 67.413$   $\chi^2/\text{NDF}$ : 68.9/40

All:  $-112.682 \pm 47.633$   $\chi^2/\text{NDF}$ : 120.8/81

- sign  $8.058 \pm 67.312$   $\chi^2/\text{NDF}$ : 45.4/40

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 300.233 $\pm$ 0.051  $\chi^2$ /NDF:1545726.9/23

Right Out: 464.761 $\pm$ 0.128  $\chi^2$ /NDF: 914781.1/17

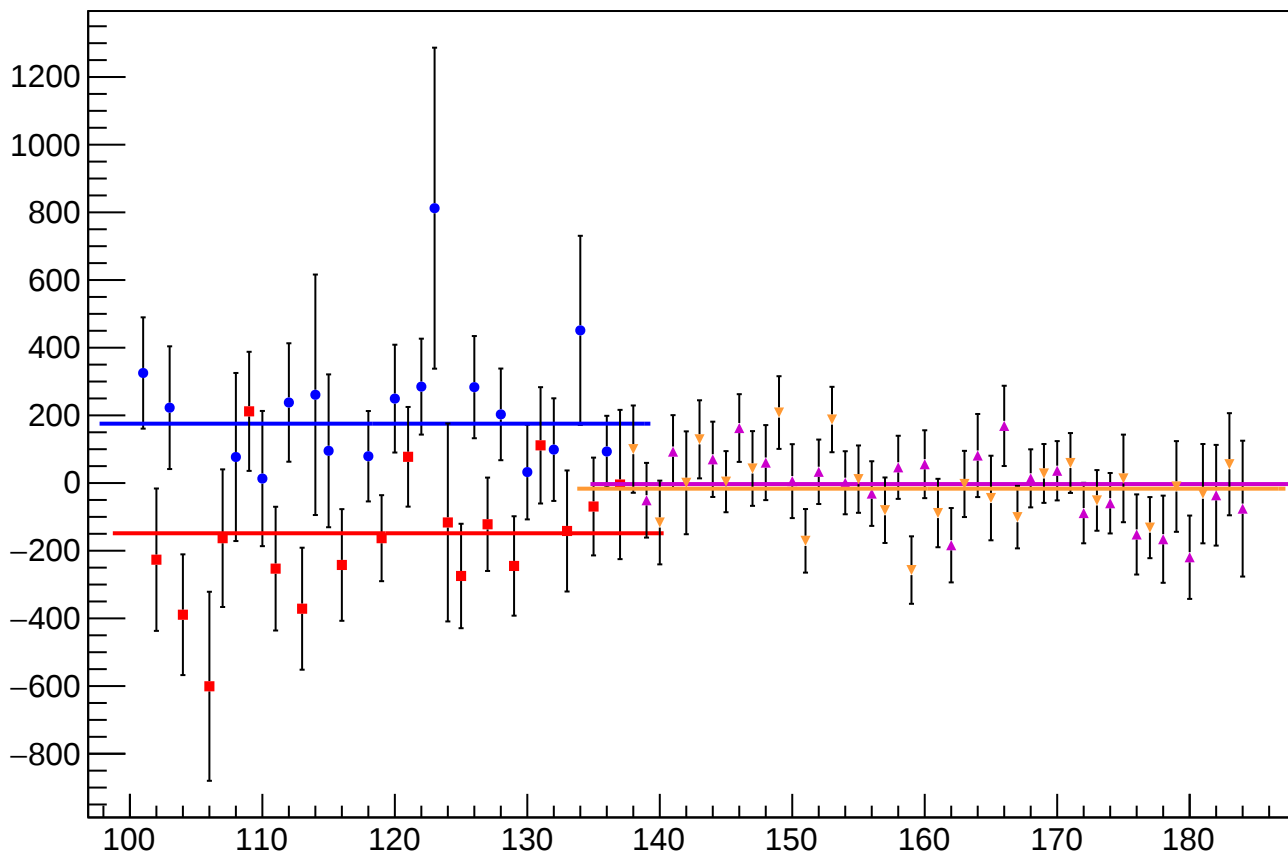
Left In: 297.696 $\pm$ 0.051  $\chi^2$ /NDF:1274607.7/22

+ sign 322.015 $\pm$ 0.048  $\chi^2$ /NDF: 3887710.1/40

All: 321.336 $\pm$ 0.034  $\chi^2$ /NDF: 7538145.1/81

- sign 320.660 $\pm$ 0.048  $\chi^2$ /NDF: 3650030.2/40

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 175.468 $\pm$ 40.358  $\chi^2$ /NDF: 8.6/16

Left Out: -16.626 $\pm$ 21.517  $\chi^2$ /NDF:25.8/23

Right Out: -148.445 $\pm$ 40.332  $\chi^2$ /NDF: 17.5/17

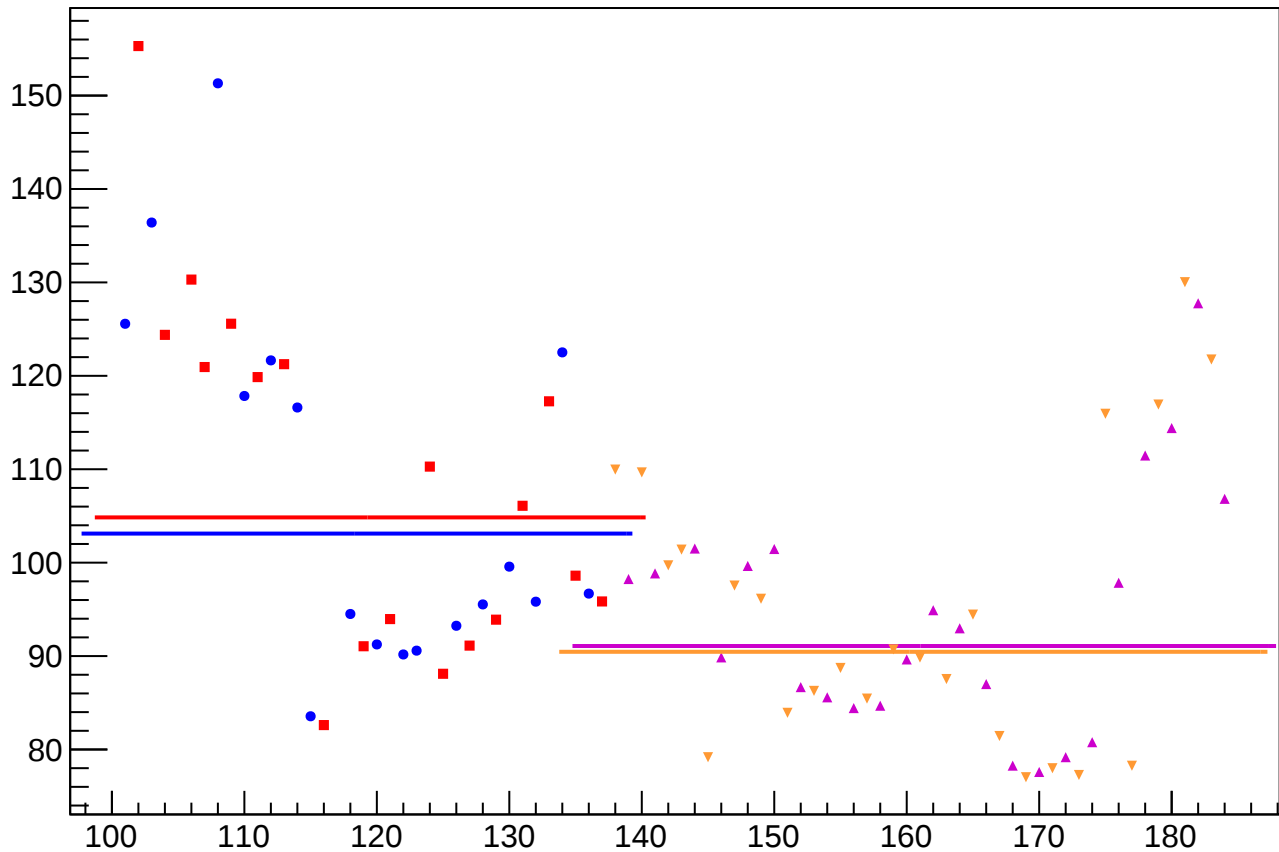
Left In: -3.016 $\pm$ 21.993  $\chi^2$ /NDF:18.6/22

+ sign 25.891 $\pm$ 18.987  $\chi^2$ /NDF: 52.0/40

All: -4.706 $\pm$ 13.538  $\chi^2$ /NDF: 103.4/81

- sign -36.348 $\pm$ 19.309  $\chi^2$ /NDF: 46.1/40

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 90.458 $\pm$ 0.015  $\chi^2$ /NDF: 760582.7/23

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

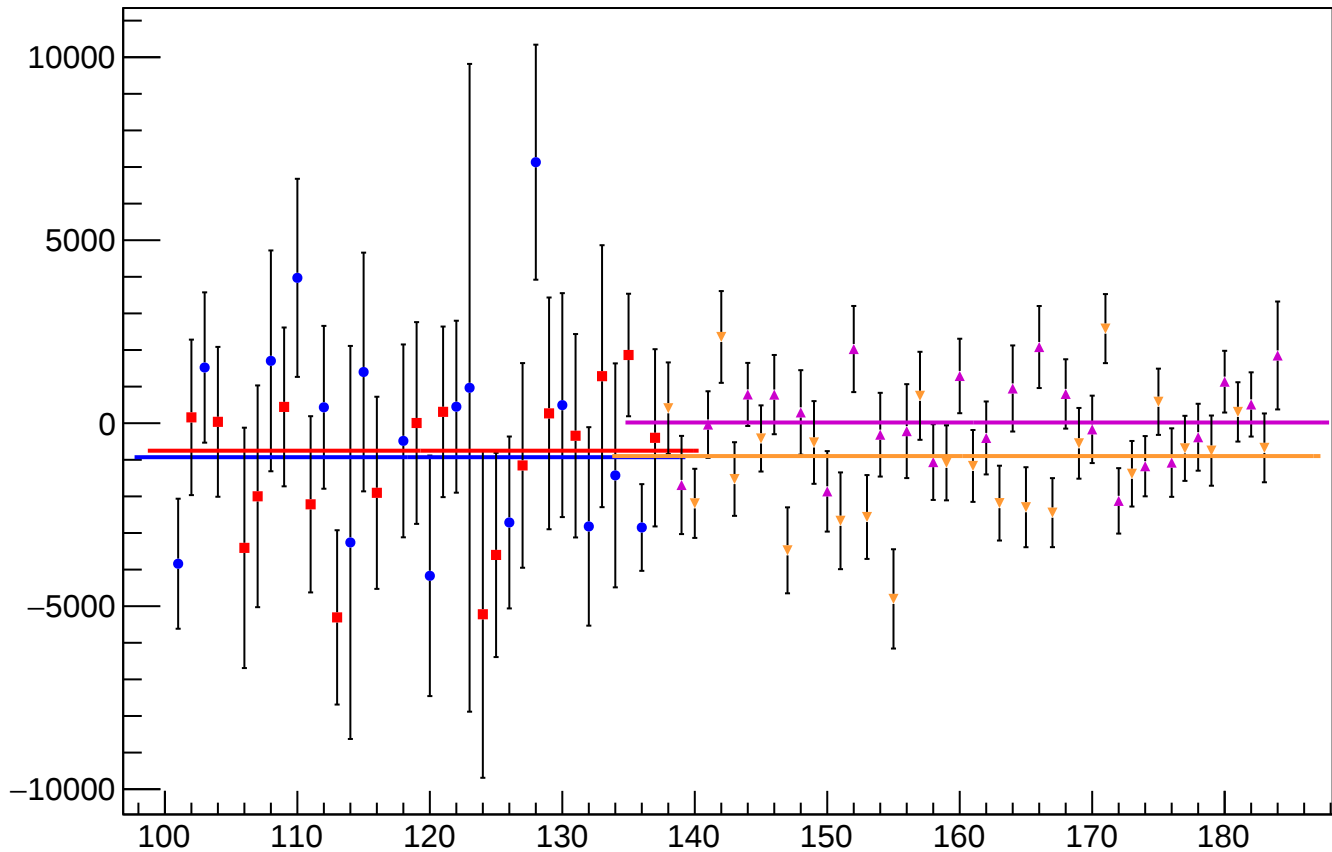
Left In: 91.077 $\pm$ 0.016  $\chi^2$ /NDF: 518918.8/22

+ sign 93.259 $\pm$ 0.013  $\chi^2$ /NDF: 1220125.4/40

All: 93.737 $\pm$ 0.010  $\chi^2$ /NDF: 2289921.2/81

- sign 94.233 $\pm$ 0.014  $\chi^2$ /NDF: 1067209.2/40

# asym\_sam\_24\_68\_dd\_correction\_mean vs Slug



Right In:  $-928.932 \pm 586.968$   $\chi^2/\text{NDF}$ : 20.9/16

Left Out:  $-897.998 \pm 207.362$   $\chi^2/\text{NDF}$ : 54.4/23

Right Out:  $-751.262 \pm 594.960$   $\chi^2/\text{NDF}$ : 10.9/17

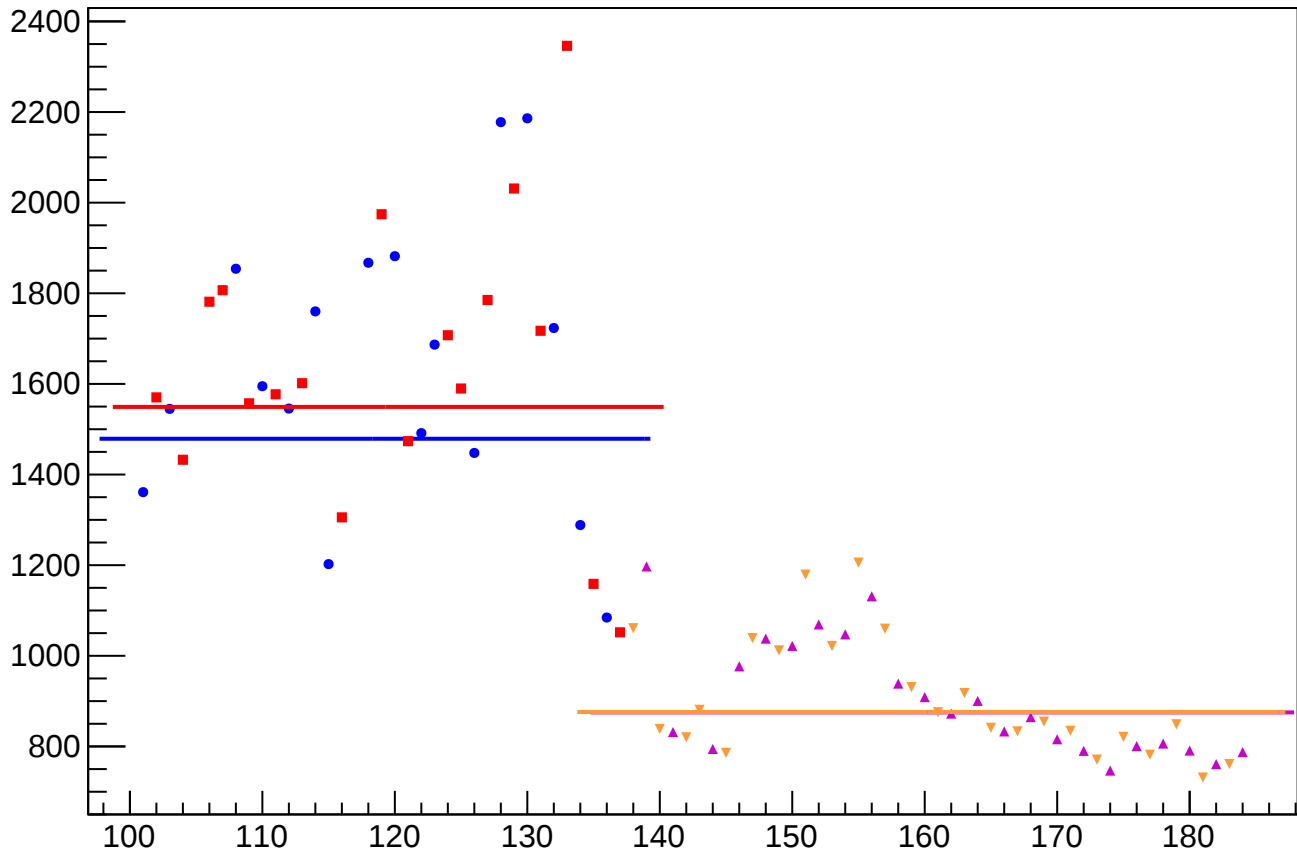
Left In:  $19.191 \pm 210.437$   $\chi^2/\text{NDF}$ : 29.5/22

+ sign  $-901.431 \pm 195.520$   $\chi^2/\text{NDF}$ : 75.3/40

All:  $-490.044 \pm 139.258$   $\chi^2/\text{NDF}$ : 126.2/81

- sign  $-66.478 \pm 198.393$   $\chi^2/\text{NDF}$ : 41.9/40

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1478.991 $\pm$ 0.415  $\chi^2$ /NDF: 589620.8/16

Left Out: 875.962 $\pm$ 0.147  $\chi^2$ /NDF: 613112.3/23

+ sign 942.872 $\pm$ 0.138  $\chi^2$ /NDF: 3079455.4/40

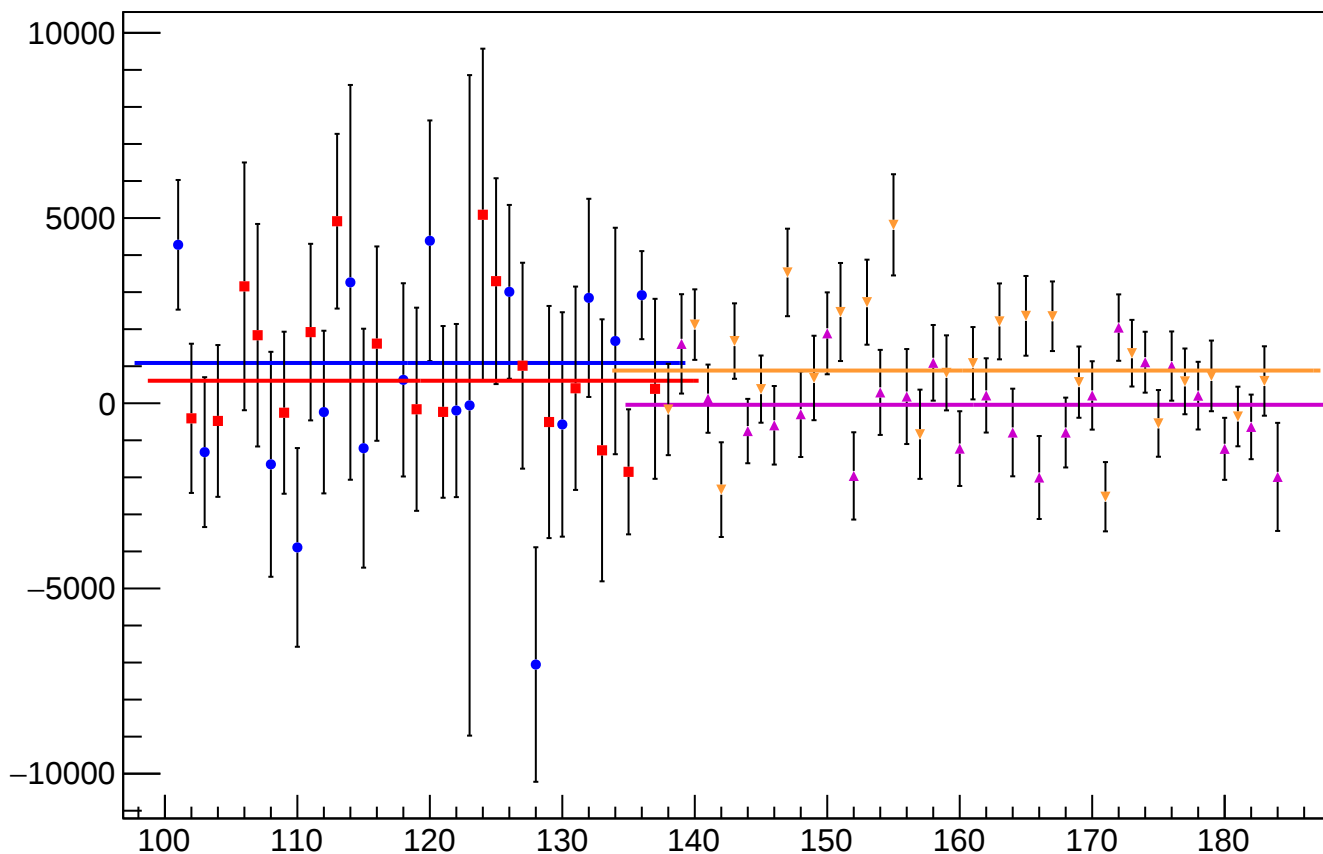
Right Out: 1549.266 $\pm$ 0.421  $\chi^2$ /NDF: 462557.8/17

All: 946.404 $\pm$ 0.098  $\chi^2$ /NDF: 6409278.2/81

- sign 950.039 $\pm$ 0.140  $\chi^2$ /NDF: 3328498.7/40

Left In: 875.074 $\pm$ 0.149  $\chi^2$ /NDF: 583342.7/22

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 883.136 $\pm$ 207.121  $\chi^2$ /NDF: 53.8/23

Right Out: 607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

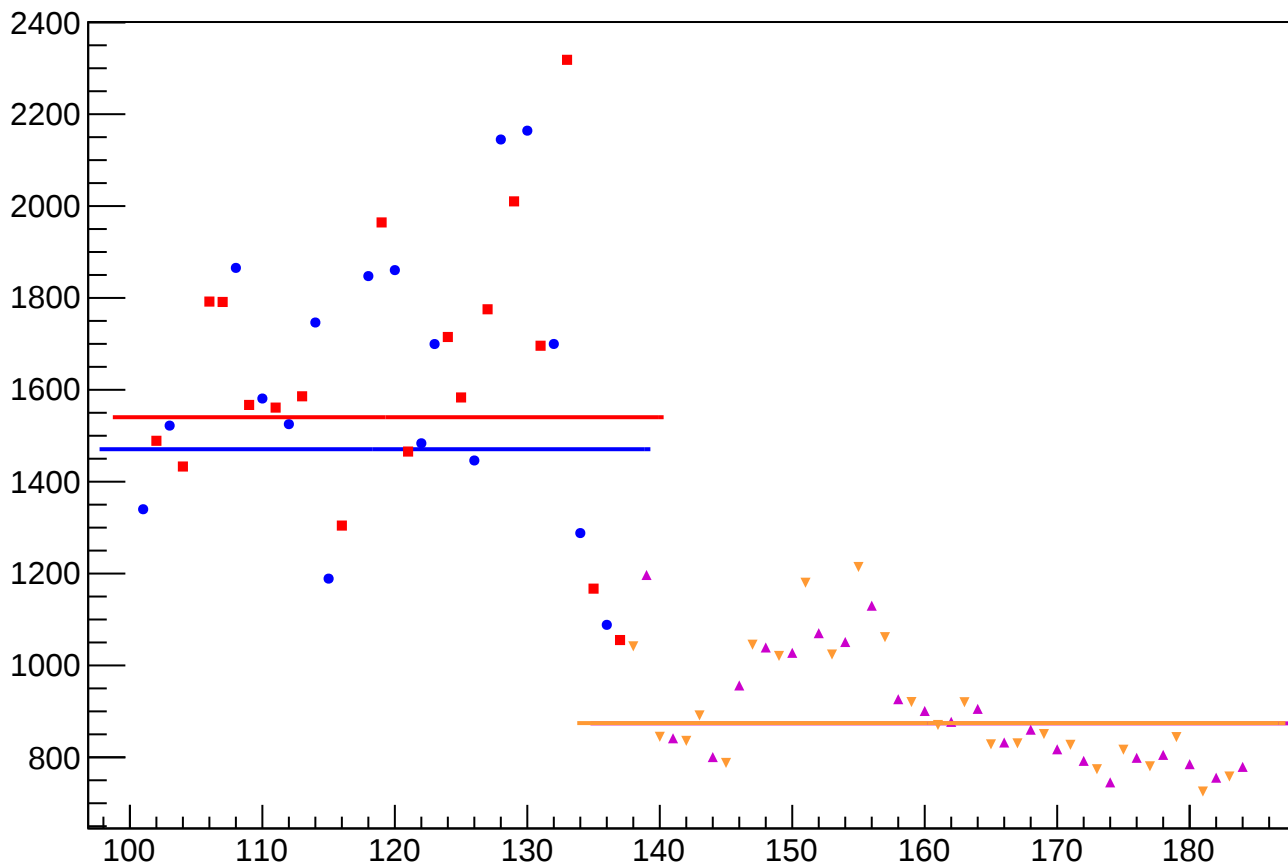
Left In: -41.523 $\pm$ 210.209  $\chi^2$ /NDF: 28.1/22

+ sign 906.071 $\pm$ 195.182  $\chi^2$ /NDF: 75.8/40

All: 475.114 $\pm$ 139.026  $\chi^2$ /NDF: 124.8/81

- sign 31.292 $\pm$ 198.074  $\chi^2$ /NDF: 39.1/40

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1470.683 $\pm$ 0.412  $\chi^2$ /NDF: 567728.4/16

Left Out: 874.482 $\pm$ 0.146  $\chi^2$ /NDF: 625957.8/23

+ sign 941.232 $\pm$ 0.138  $\chi^2$ /NDF: 3049033.3/40

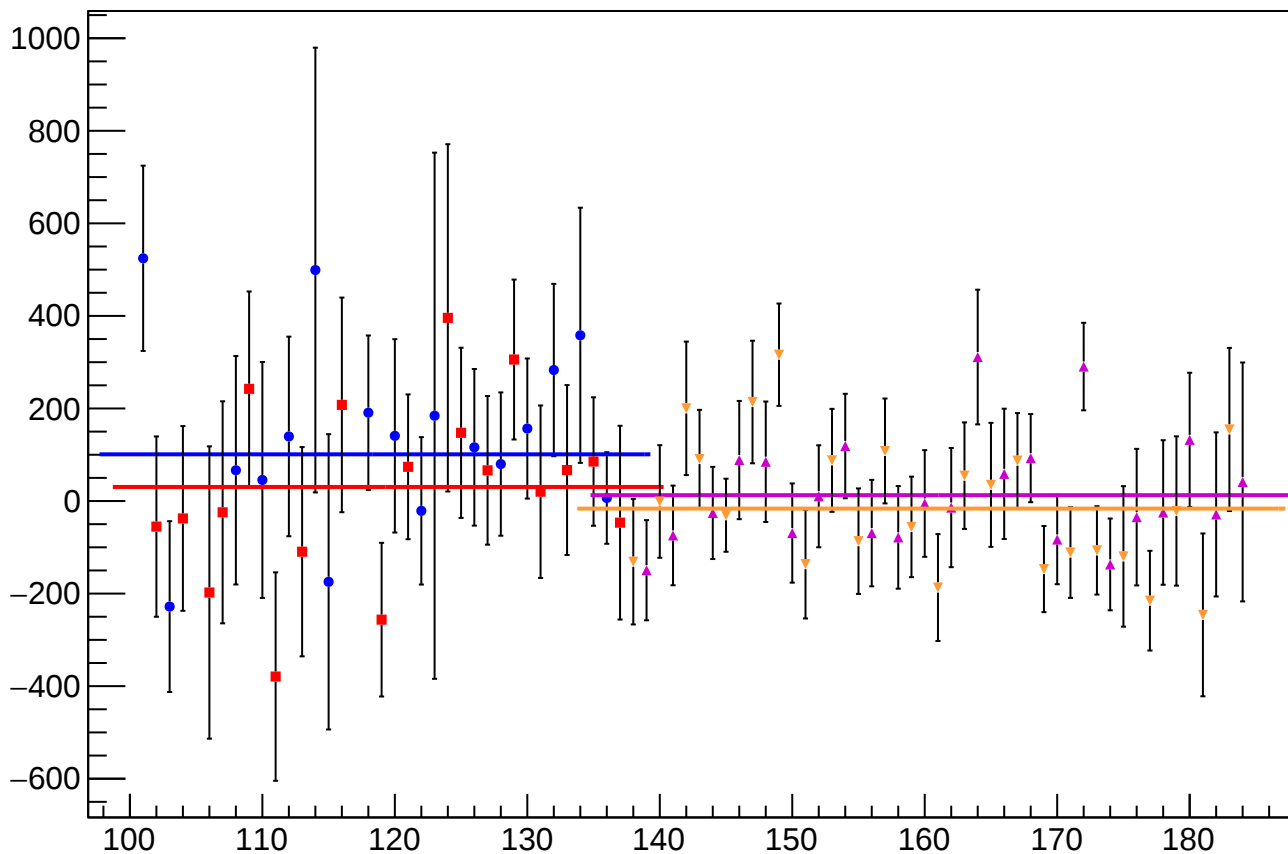
Right Out: 1540.341 $\pm$ 0.418  $\chi^2$ /NDF: 442804.3/17

All: 944.872 $\pm$ 0.098  $\chi^2$ /NDF: 6330433.2/81

- sign 948.622 $\pm$ 0.140  $\chi^2$ /NDF: 3279987.4/40

Left In: 873.902 $\pm$ 0.149  $\chi^2$ /NDF: 583344.5/22

# dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 100.918 $\pm$ 45.284  $\chi^2/\text{NDF}$ : 13.0/16

Left Out: -16.336 $\pm$ 23.481  $\chi^2/\text{NDF}$ : 33.8/23

Right Out: 30.411 $\pm$ 45.710  $\chi^2/\text{NDF}$ : 13.5/17

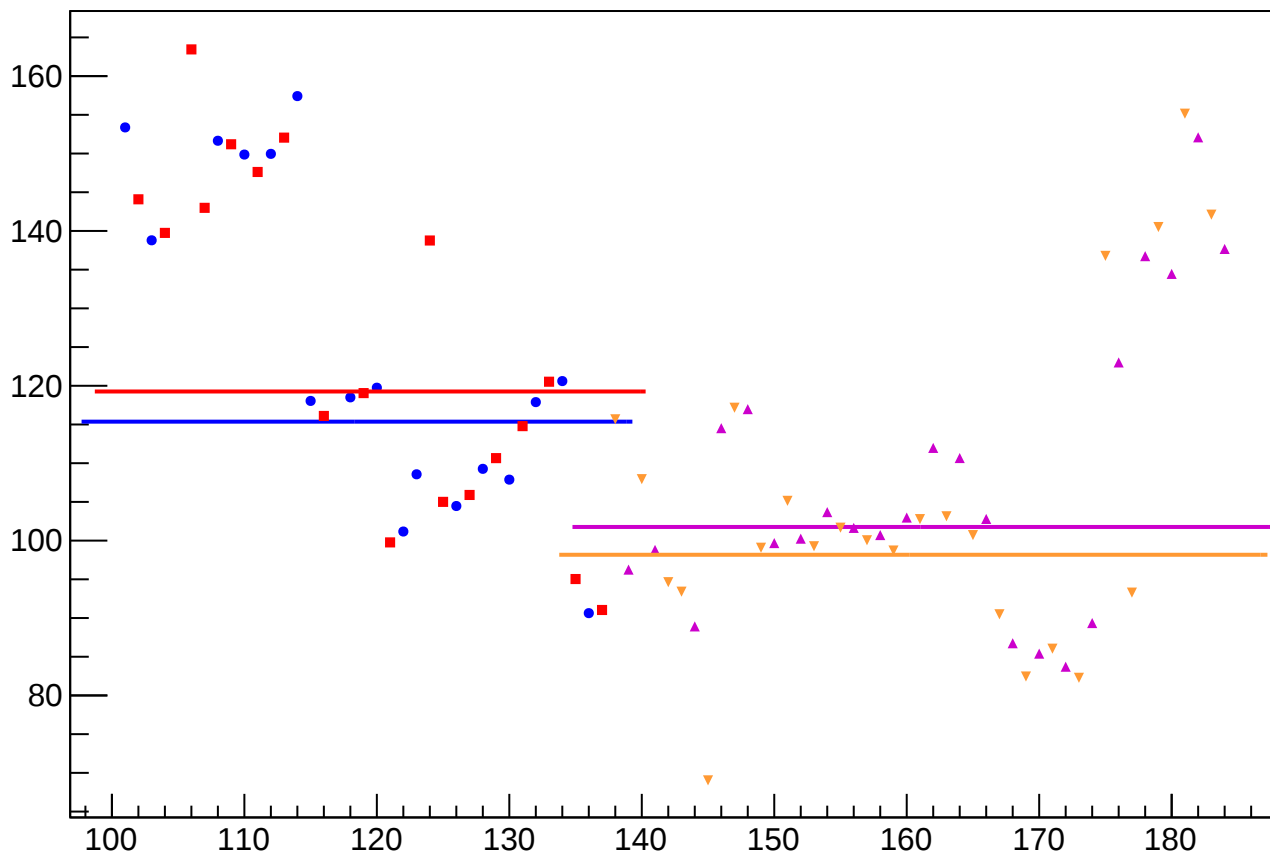
Left In: 12.678 $\pm$ 24.667  $\chi^2/\text{NDF}$ : 24.3/22

+ sign 8.509 $\pm$ 20.845  $\chi^2/\text{NDF}$ : 52.1/40

All: 12.428 $\pm$ 15.035  $\chi^2/\text{NDF}$ : 90.1/81

- sign 16.677 $\pm$ 21.708  $\chi^2/\text{NDF}$ : 37.9/40

# dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 98.172 $\pm$ 0.017  $\chi^2$ /NDF:1142321.5/23

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

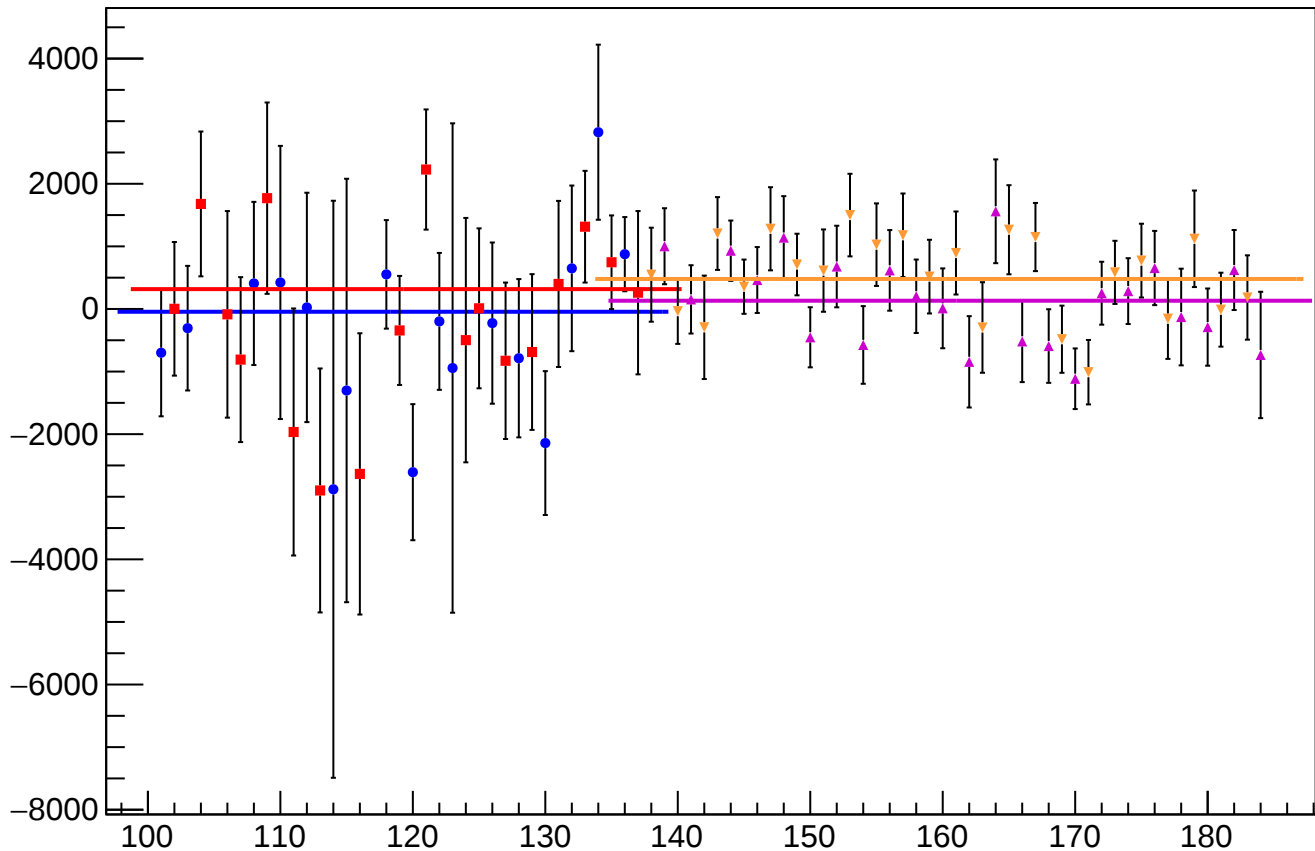
Left In: 101.764 $\pm$ 0.017  $\chi^2$ /NDF:764471.2/22

+ sign 101.815 $\pm$ 0.015  $\chi^2$ /NDF: 1780935.9/40

All: 103.684 $\pm$ 0.011  $\chi^2$ /NDF: 3204227.2/81

- sign 105.711 $\pm$ 0.015  $\chi^2$ /NDF: 1389789.4/40

# asym\_sam\_26\_48\_dd\_correction\_mean vs Slug



Right In: -44.553 $\pm$ 286.284  $\chi^2$ /NDF: 17.9/16

Left Out: 479.345 $\pm$ 122.734  $\chi^2$ /NDF: 28.1/23

Right Out: 316.976 $\pm$ 283.113  $\chi^2$ /NDF: 16.8/17

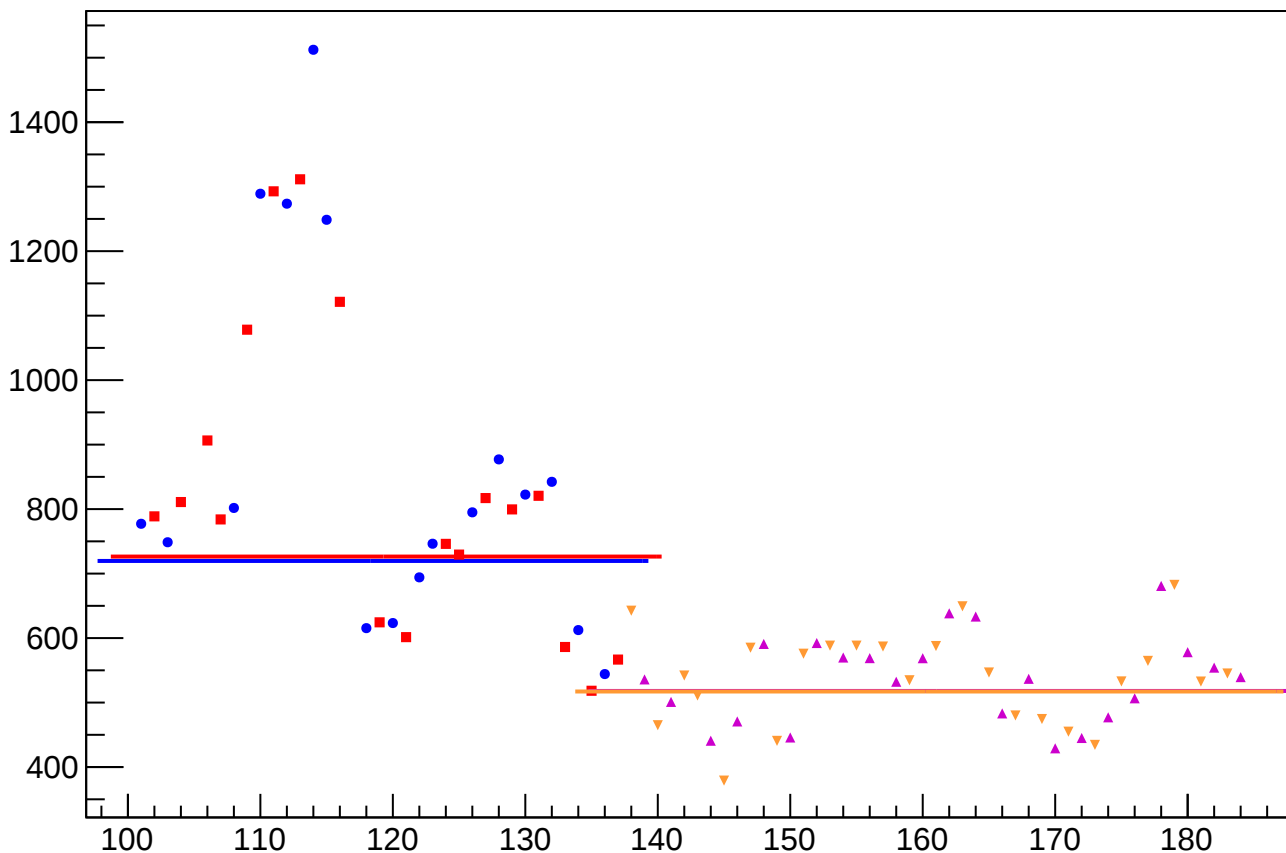
Left In: 131.610 $\pm$ 124.664  $\chi^2$ /NDF: 28.4/22

+ sign 398.005 $\pm$ 112.805  $\chi^2$ /NDF: 48.8/40

All: 281.201 $\pm$ 80.217  $\chi^2$ /NDF: 96.5/81

- sign 161.714 $\pm$ 114.093  $\chi^2$ /NDF: 45.5/40

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 517.174 $\pm$ 0.087  $\chi^2$ /NDF: 743378.7/23

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

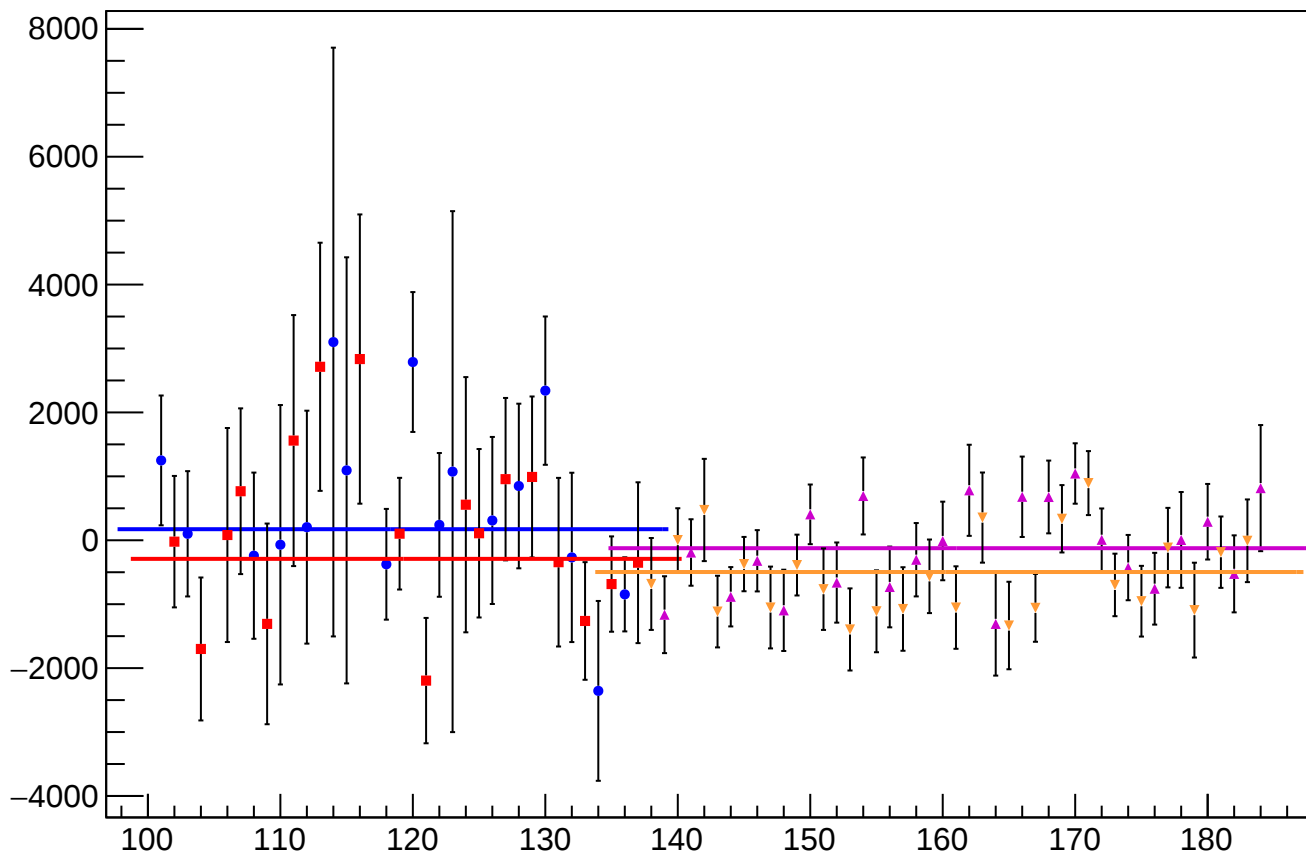
Left In: 518.007 $\pm$ 0.088  $\chi^2$ /NDF: 545568.0/22

+ sign 548.603 $\pm$ 0.080  $\chi^2$ /NDF: 2335057.0/40

All: 550.209 $\pm$ 0.057  $\chi^2$ /NDF: 4670040.8/81

- sign 551.851 $\pm$ 0.081  $\chi^2$ /NDF: 2334164.4/40

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In:  $173.182 \pm 285.672$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $-496.565 \pm 118.730$   $\chi^2/\text{NDF}$ : 26.3/23

Right Out:  $-290.799 \pm 283.545$   $\chi^2/\text{NDF}$ : 15.6/17

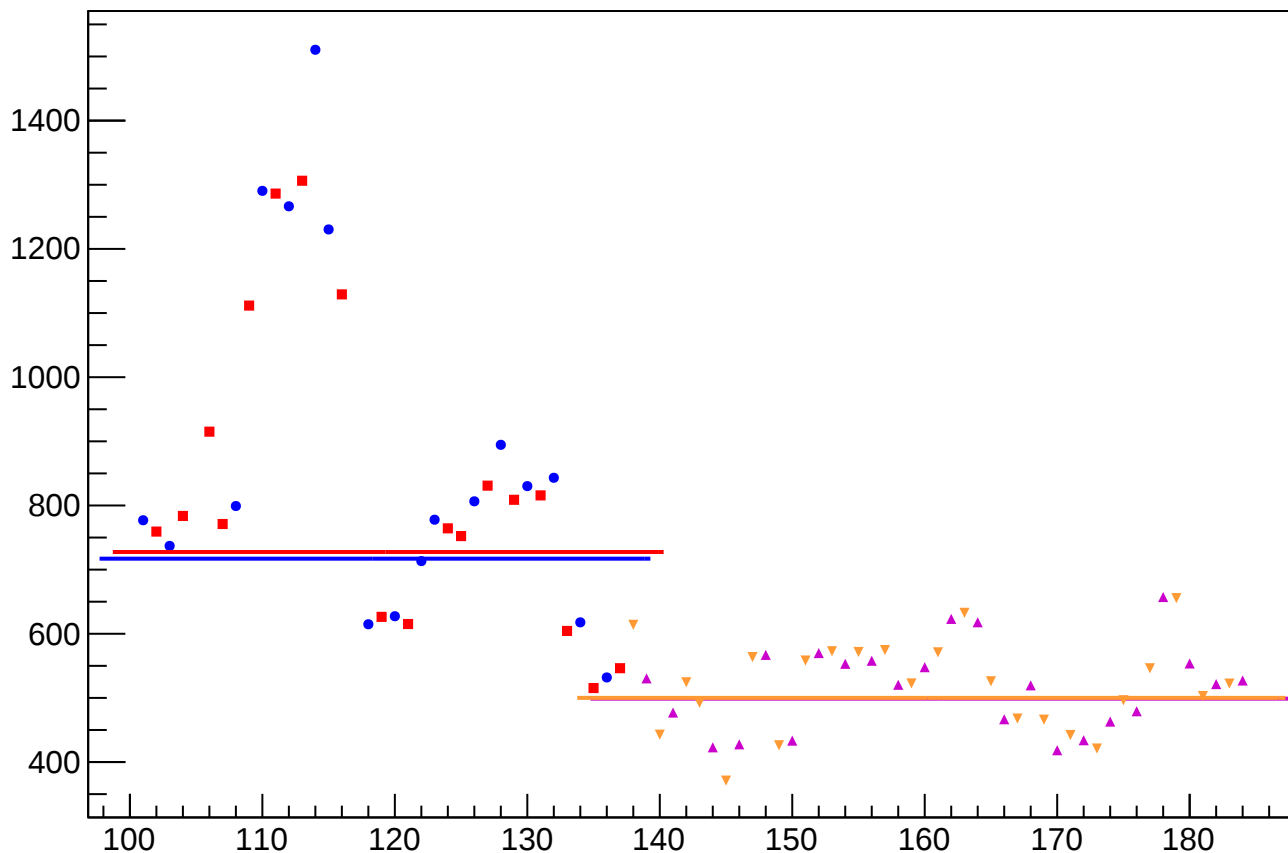
Left In:  $-124.022 \pm 120.216$   $\chi^2/\text{NDF}$ : 30.2/22

+ sign  $-397.915 \pm 109.638$   $\chi^2/\text{NDF}$ : 49.1/40

All:  $-274.849 \pm 77.891$   $\chi^2/\text{NDF}$ : 97.7/81

- sign  $-149.433 \pm 110.679$   $\chi^2/\text{NDF}$ : 46.1/40

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.083 $\pm$ 0.202  $\chi^2$ /NDF: 782449.4/16

Left Out: 500.067 $\pm$ 0.084  $\chi^2$ /NDF: 721326.2/23

Right Out: 727.490 $\pm$ 0.200  $\chi^2$ /NDF: 881036.5/17

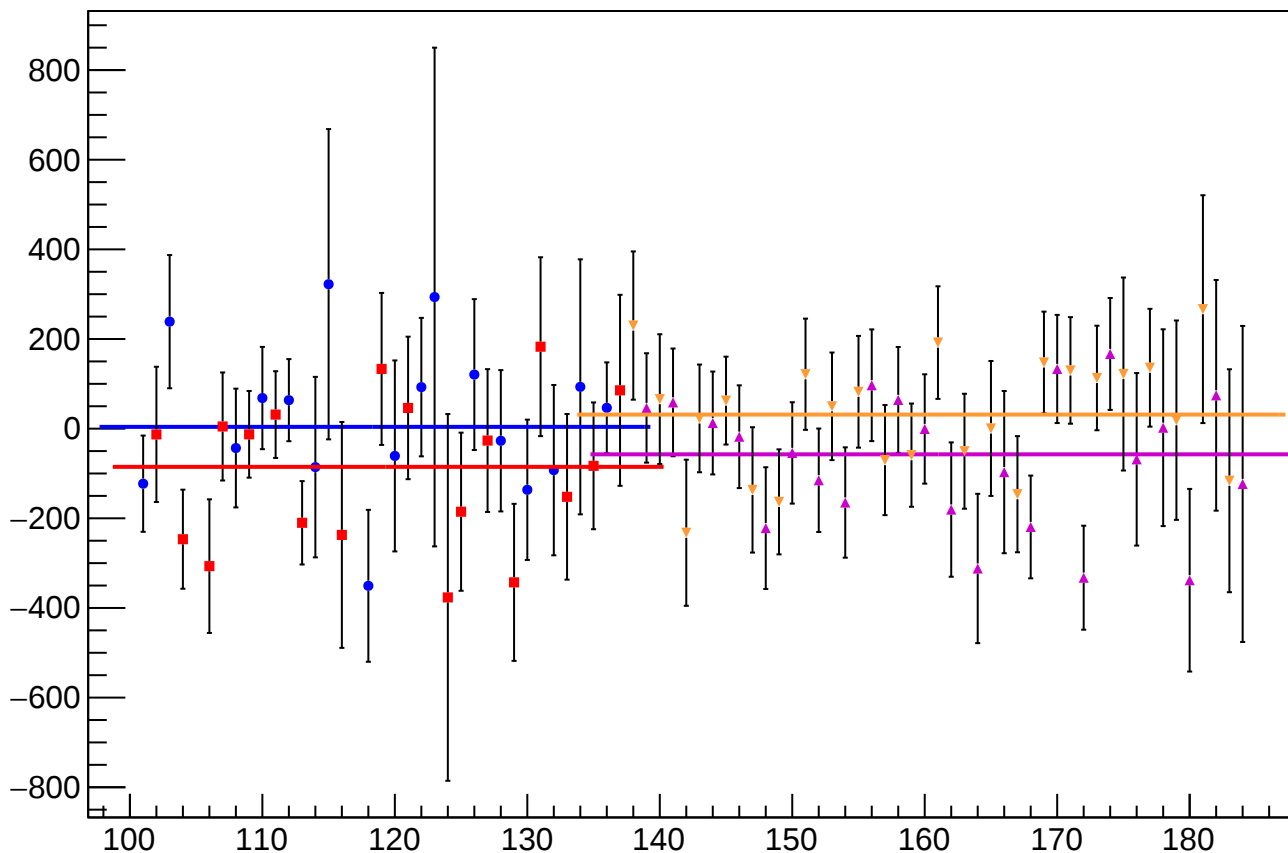
Left In: 498.835 $\pm$ 0.085  $\chi^2$ /NDF: 572334.3/22

+ sign 532.032 $\pm$ 0.078  $\chi^2$ /NDF: 2487963.2/40

All: 532.845 $\pm$ 0.055  $\chi^2$ /NDF: 5043993.0/81

- sign 533.674 $\pm$ 0.078  $\chi^2$ /NDF: 2555807.5/40

# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}$ : 12.7/16

Left Out:  $31.384 \pm 27.309$   $\chi^2/\text{NDF}$ : 18.7/23

Right Out:  $-85.205 \pm 33.413$   $\chi^2/\text{NDF}$ : 17.4/17

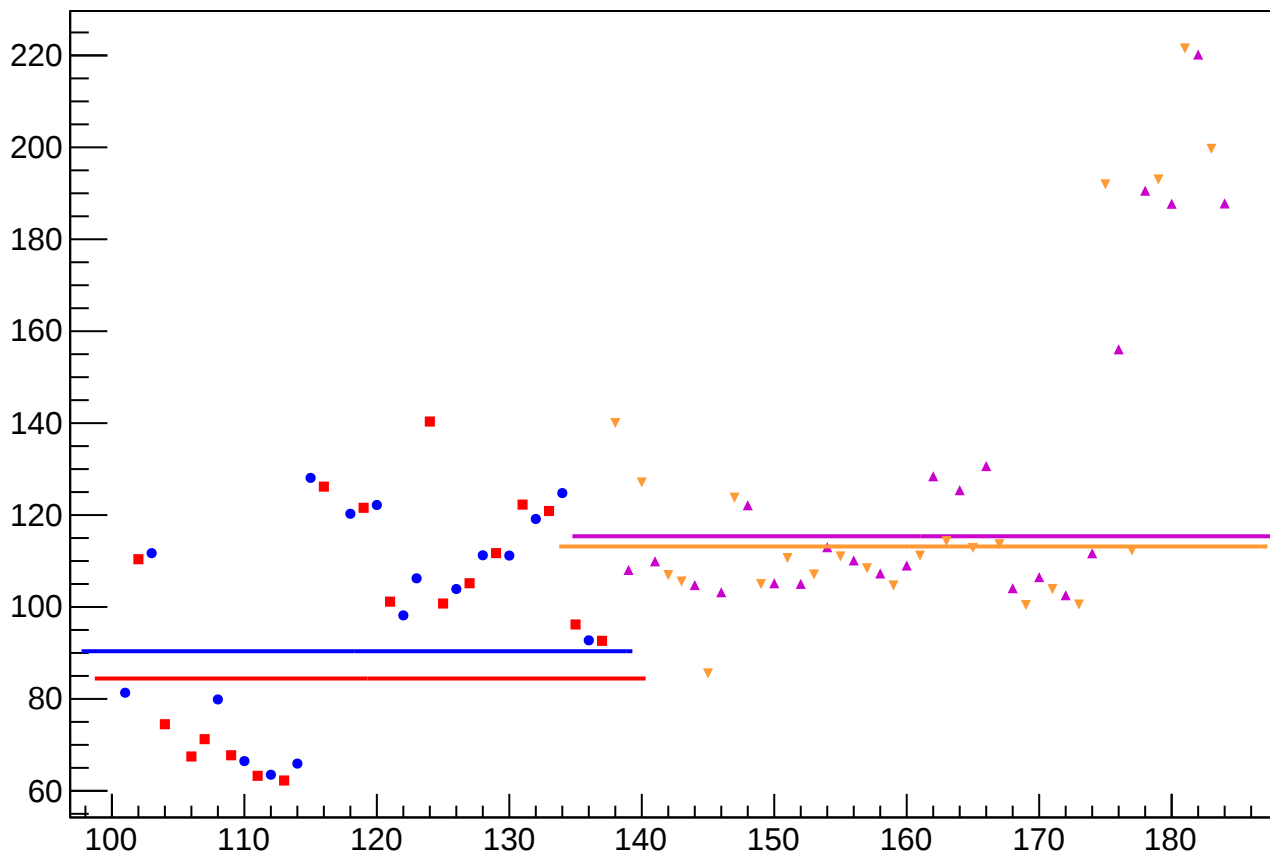
Left In:  $-57.275 \pm 28.232$   $\chi^2/\text{NDF}$ : 26.1/22

+ sign  $21.368 \pm 21.746$   $\chi^2/\text{NDF}$ : 31.8/40

All:  $-24.148 \pm 15.312$   $\chi^2/\text{NDF}$ : 84.3/81

- sign  $-68.910 \pm 21.565$   $\chi^2/\text{NDF}$ : 43.9/40

# dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 90.375+/-0.025  $\chi^2/\text{NDF}$ : 654139.7/16

Left Out: 113.165+/-0.019  $\chi^2/\text{NDF}$ : 1475281.0/23

Right Out: 84.442+/-0.024  $\chi^2/\text{NDF}$ : 870835.6/17

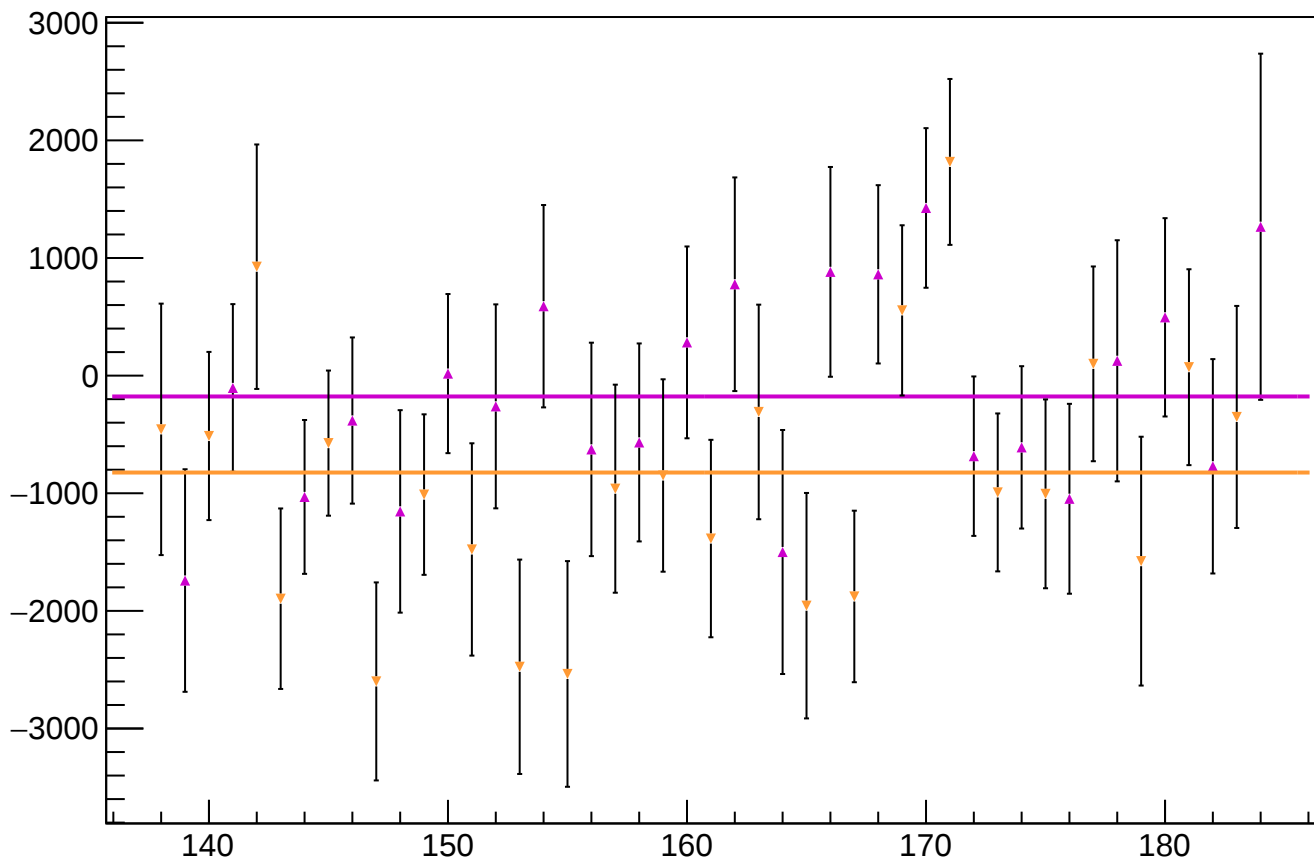
Left In: 115.386+/-0.020  $\chi^2/\text{NDF}$ : 1192884.8/22

+ sign 104.826+/-0.015  $\chi^2/\text{NDF}$ : 2639074.5/40

All: 103.651+/-0.011  $\chi^2/\text{NDF}$ : 5715178.9/81

- sign 102.496+/-0.015  $\chi^2/\text{NDF}$ : 3064525.2/40

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



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

Left Out: -823.796 $\pm$ 166.352  $\chi^2$ /NDF:42.0/23

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

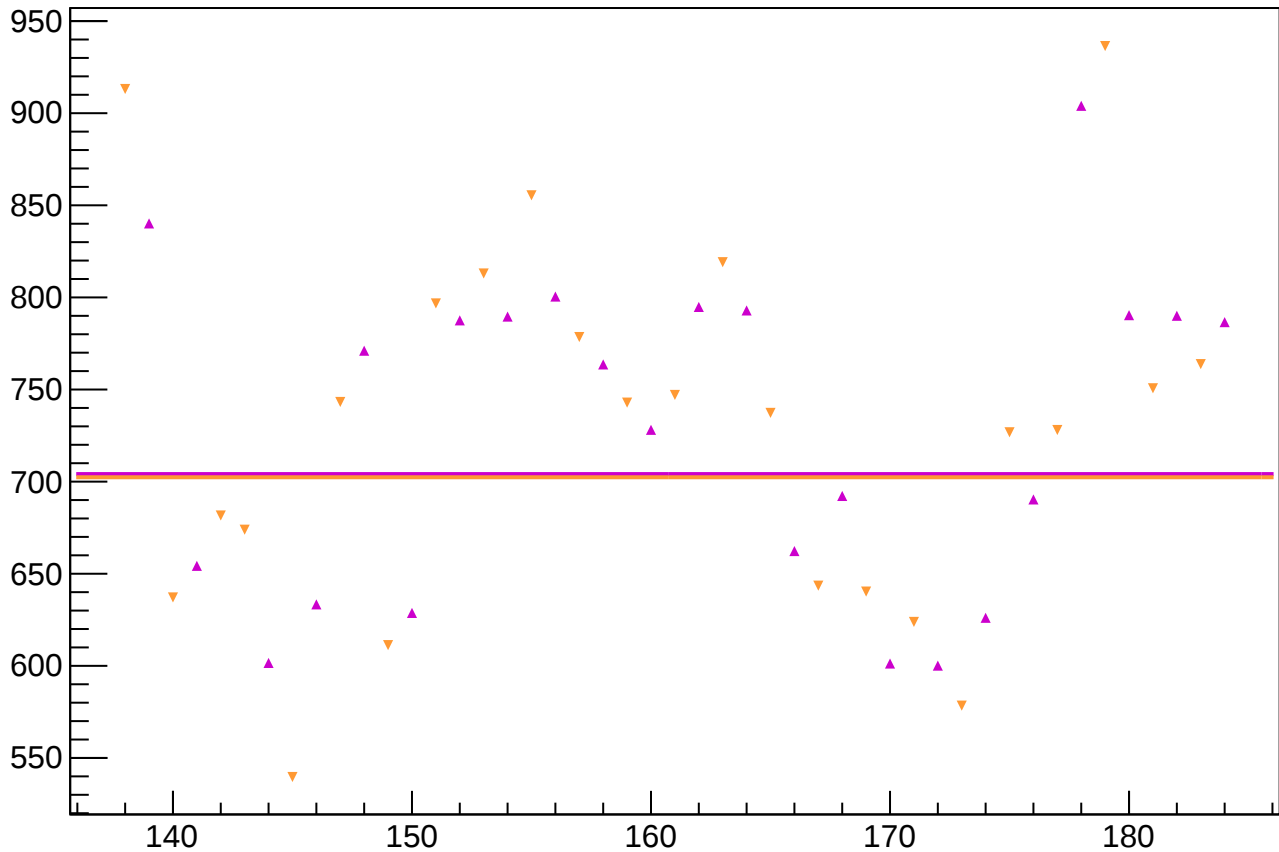
Left In: -177.186 $\pm$ 169.212  $\chi^2$ /NDF:23.3/22

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

All: -506.002 $\pm$ 118.627  $\chi^2$ /NDF: 72.7/46

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

# asym\_sam\_1548\_avg\_correction\_rms vs Slug



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

Left Out: 702.369+/-0.118  $\chi^2/\text{NDF}$ : 678199.7/23

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

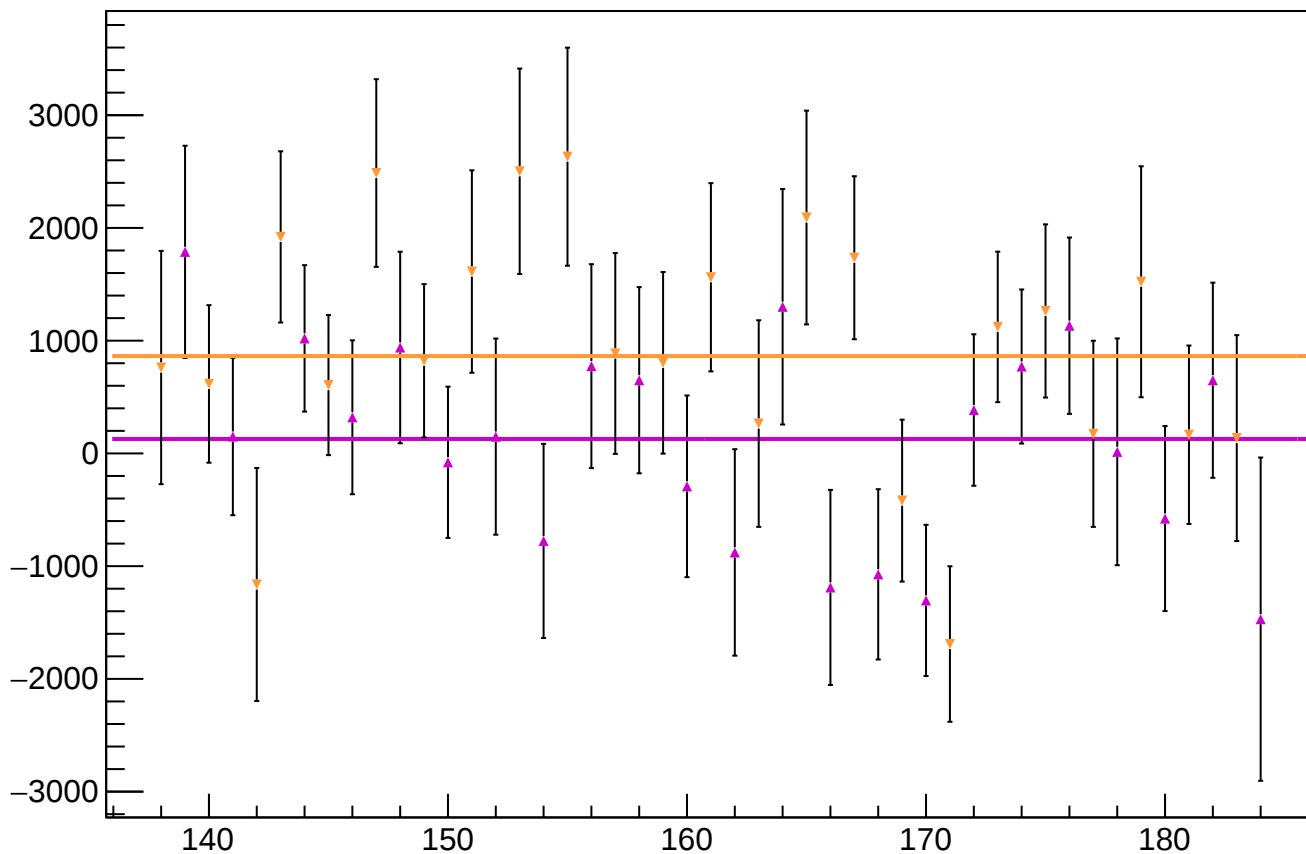
Left In: 704.101+/-0.120  $\chi^2/\text{NDF}$ : 509623.5/22

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

All: 703.220+/-0.084  $\chi^2/\text{NDF}$ : 1187929.7/46

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

# asym\_sam\_1548\_avg\_mean vs Slug



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

Left Out: 863.623 $\pm$ 164.357  $\chi^2$ /NDF:41.3/23

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

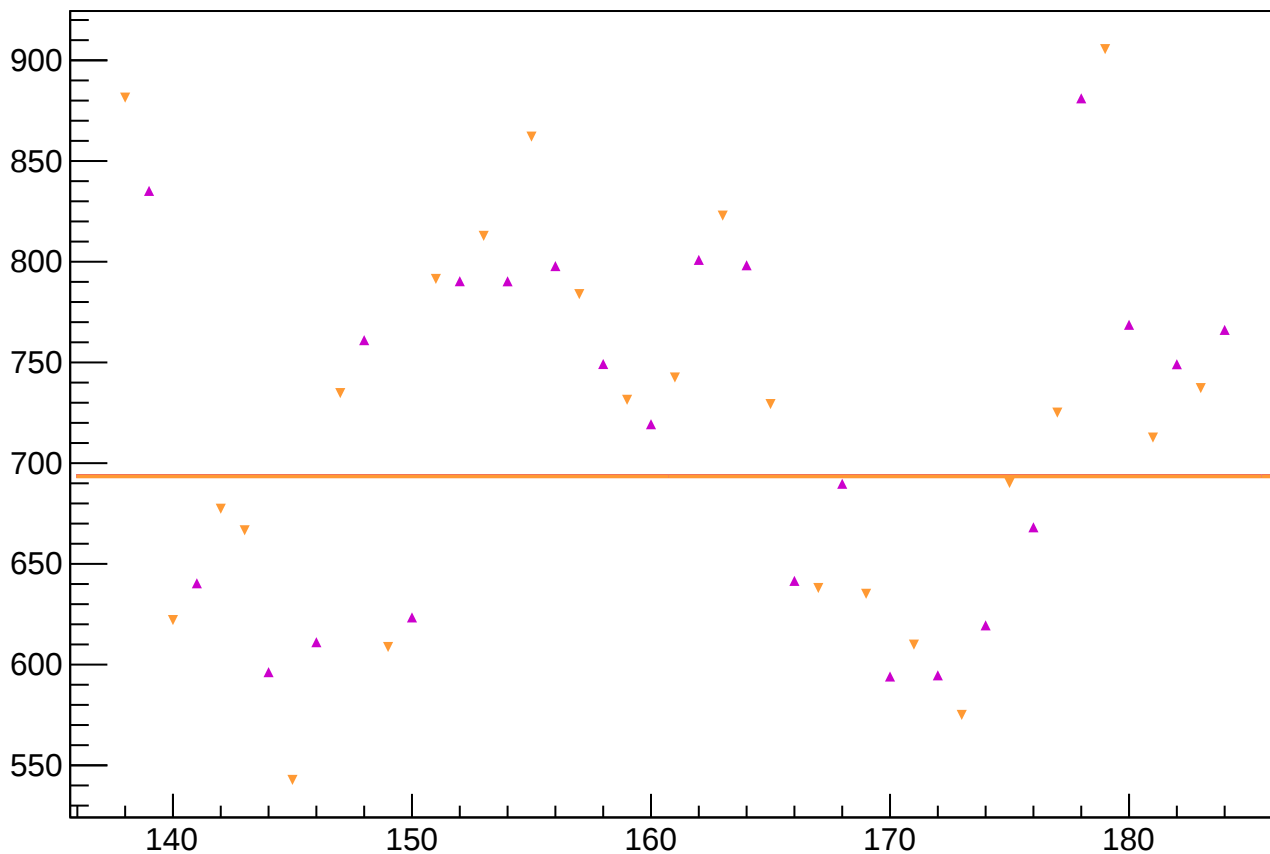
Left In: 128.120 $\pm$ 166.866  $\chi^2$ /NDF:25.3/22

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

All: 501.443 $\pm$ 117.095  $\chi^2$ /NDF: 76.4/46

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

# asym\_sam\_1548\_avg\_rms vs Slug



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

Left Out: 693.503+/-0.116  $\chi^2/\text{NDF}$ : 649104.2/23

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

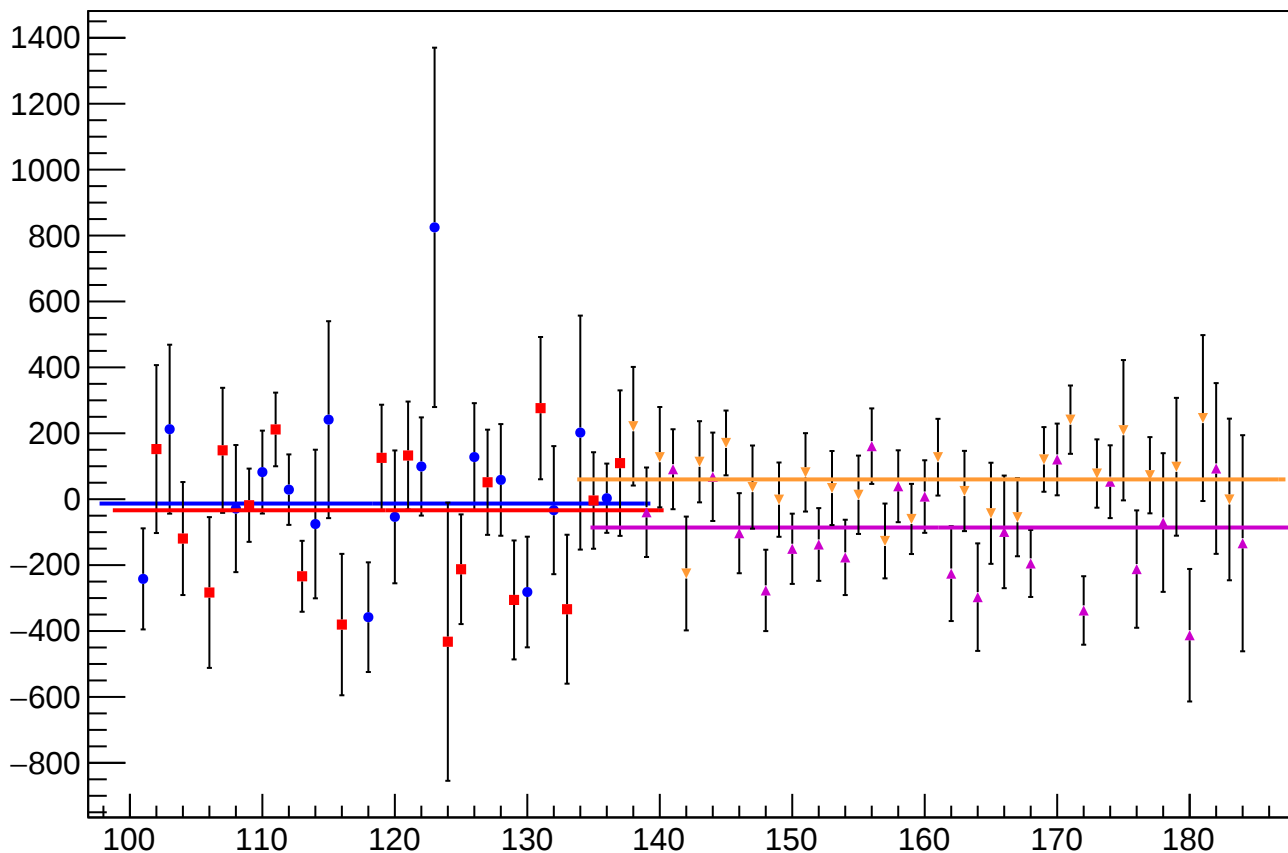
Left In: 693.615+/-0.118  $\chi^2/\text{NDF}$ : 520692.6/22

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

All: 693.559+/-0.083  $\chi^2/\text{NDF}$ : 1169797.3/46

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

# dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: -13.215 $\pm$ 40.554  $\chi^2$ /NDF: 15.7/16

Left Out: 60.055 $\pm$ 25.802  $\chi^2$ /NDF:16.2/23

Right Out: -33.637 $\pm$ 38.891  $\chi^2$ /NDF: 24.7/17

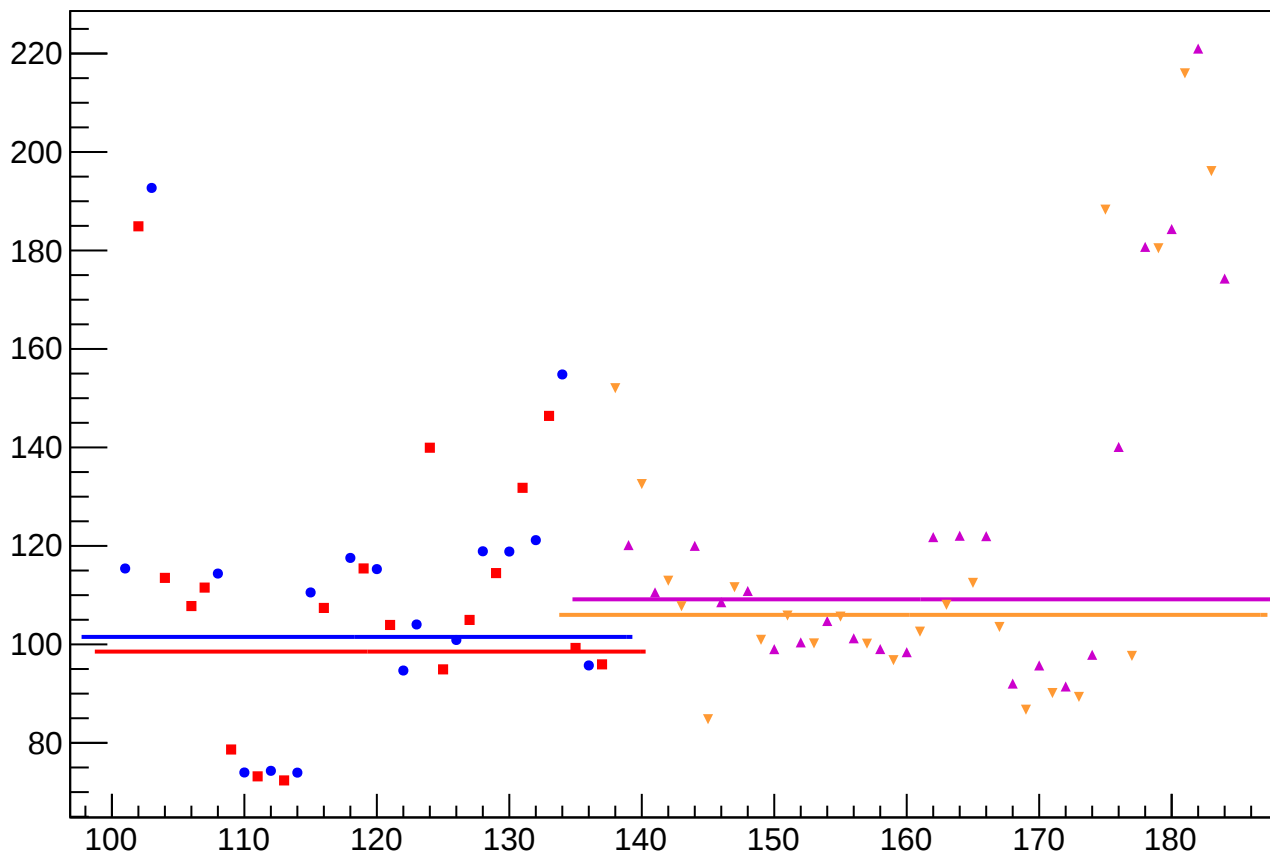
Left In: -85.948 $\pm$ 26.925  $\chi^2$ /NDF:32.4/22

+ sign 38.942 $\pm$ 21.769  $\chi^2$ /NDF: 34.2/40

All: -14.124 $\pm$ 15.522  $\chi^2$ /NDF: 104.5/81

- sign -68.999 $\pm$ 22.137  $\chi^2$ /NDF: 58.3/40

dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 101.519 $\pm$ 0.029  $\chi^2$ /NDF: 681713.7/16

Left Out: 105.996 $\pm$ 0.018  $\chi^2$ /NDF: 1719045.8/23

Right Out: 98.537 $\pm$ 0.028  $\chi^2$ /NDF: 746979.4/17

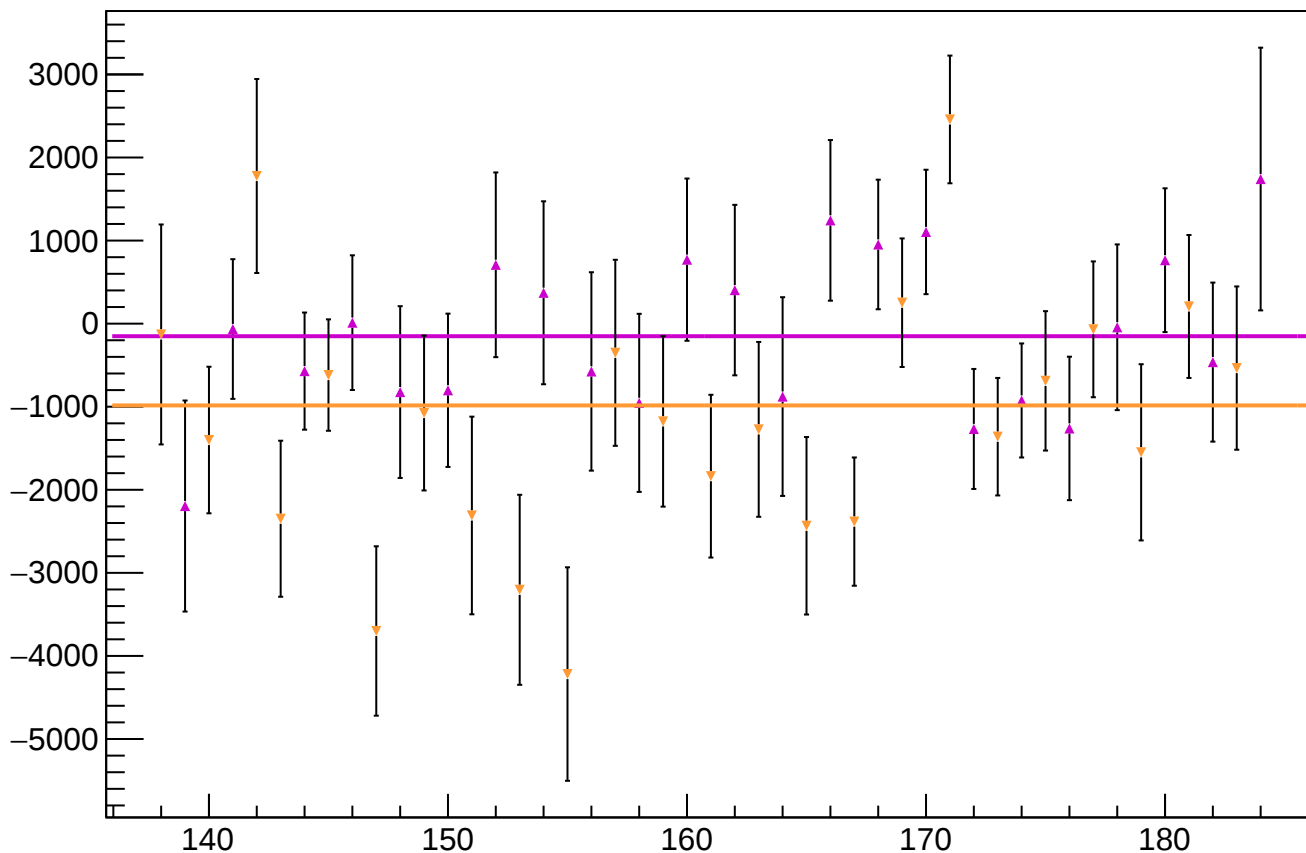
Left In: 109.150 $\pm$ 0.019  $\chi^2$ /NDF: 1334655.1/22

+ sign 104.706 $\pm$ 0.015  $\chi^2$ /NDF: 2418110.7/40

All: 105.200 $\pm$ 0.011  $\chi^2$ /NDF: 4602528.1/81

- sign 105.711 $\pm$ 0.016  $\chi^2$ /NDF: 2182321.4/40

# asym\_sam\_3748\_avg\_correction\_mean vs Slug



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

Left Out:  $-984.461 \pm 189.203$   $\chi^2/\text{NDF}$ : 60.1/23

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

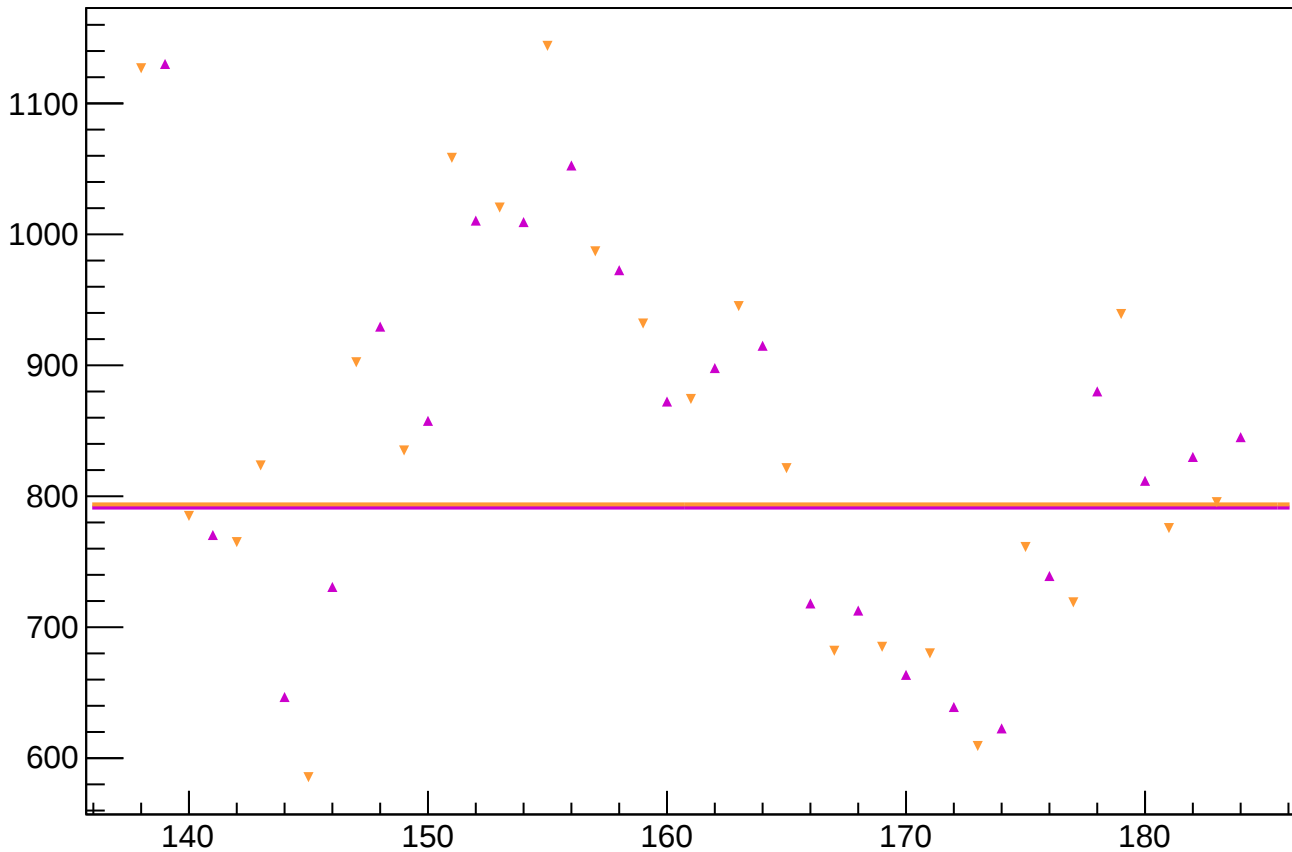
Left In:  $-151.179 \pm 191.433$   $\chi^2/\text{NDF}$ : 21.9/22

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

All:  $-572.703 \pm 134.568$   $\chi^2/\text{NDF}$ : 91.5/46

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

# asym\_sam\_3748\_avg\_correction\_rms vs Slug



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

Left Out: 793.795+/-0.134  $\chi^2/\text{NDF}$ : 1147145.5/23

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

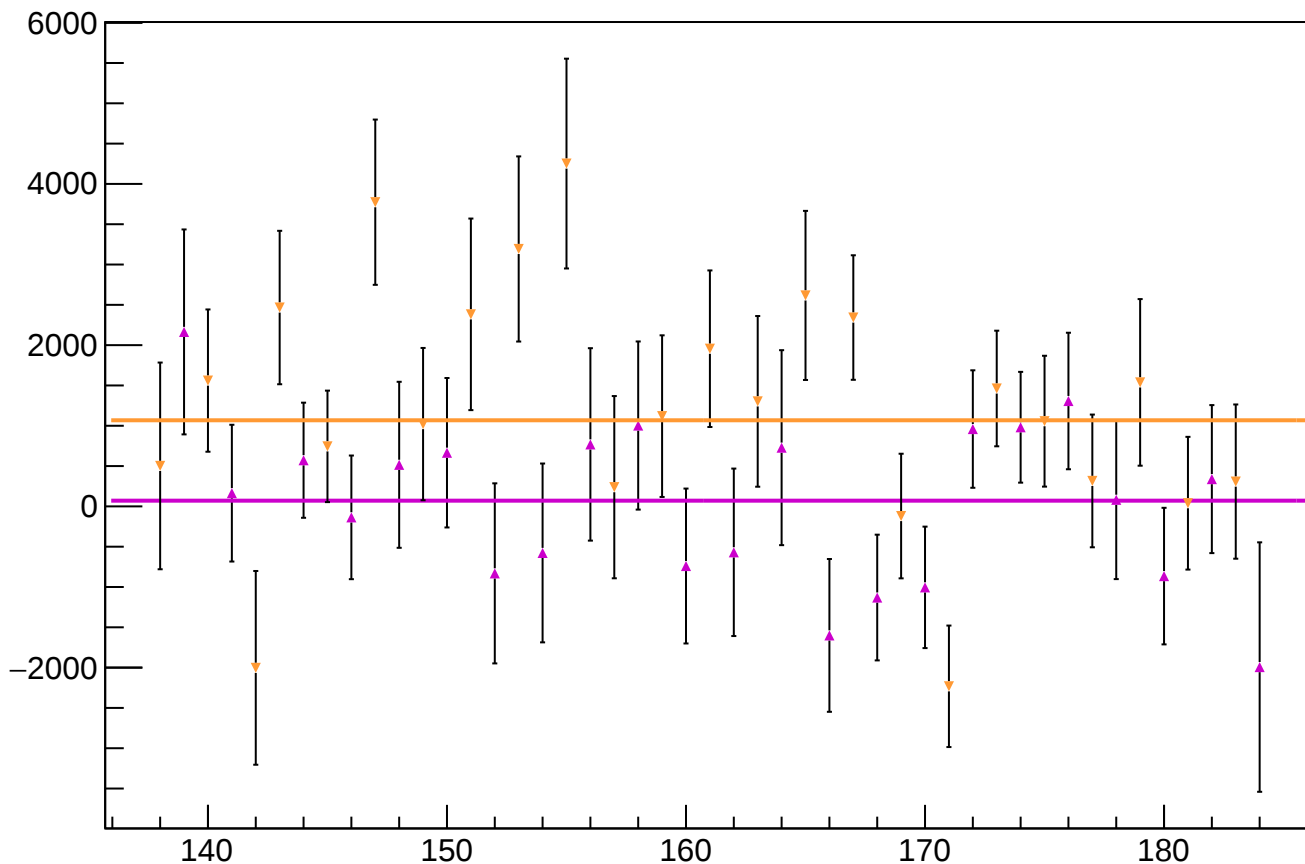
Left In: 791.361+/-0.135  $\chi^2/\text{NDF}$ : 980025.1/22

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

All: 792.592+/-0.095  $\chi^2/\text{NDF}$ : 2127334.1/46

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

# asym\_sam\_3748\_avg\_mean vs Slug



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

Left Out: 1068.014+/-188.628     $\chi^2/\text{NDF}$ : 58.4/23

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

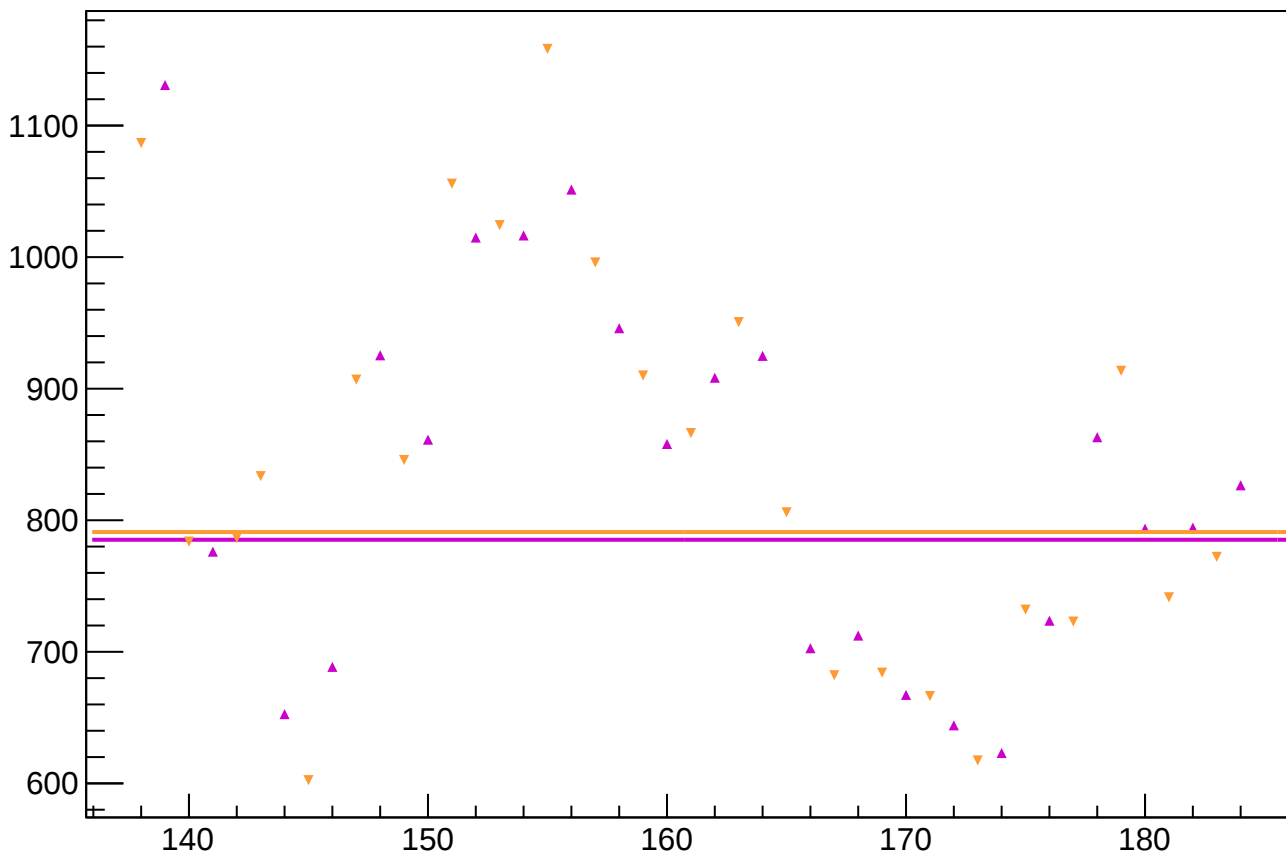
Left In: 70.852+/-190.155     $\chi^2/\text{NDF}$ : 23.4/22

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

All: 573.454+/-133.917     $\chi^2/\text{NDF}$ : 95.7/46

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

# asym\_sam\_3748\_avg\_rms vs Slug



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

Left Out: 791.041+/-0.133  $\chi^2/\text{NDF}$ :1094819.0/23

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

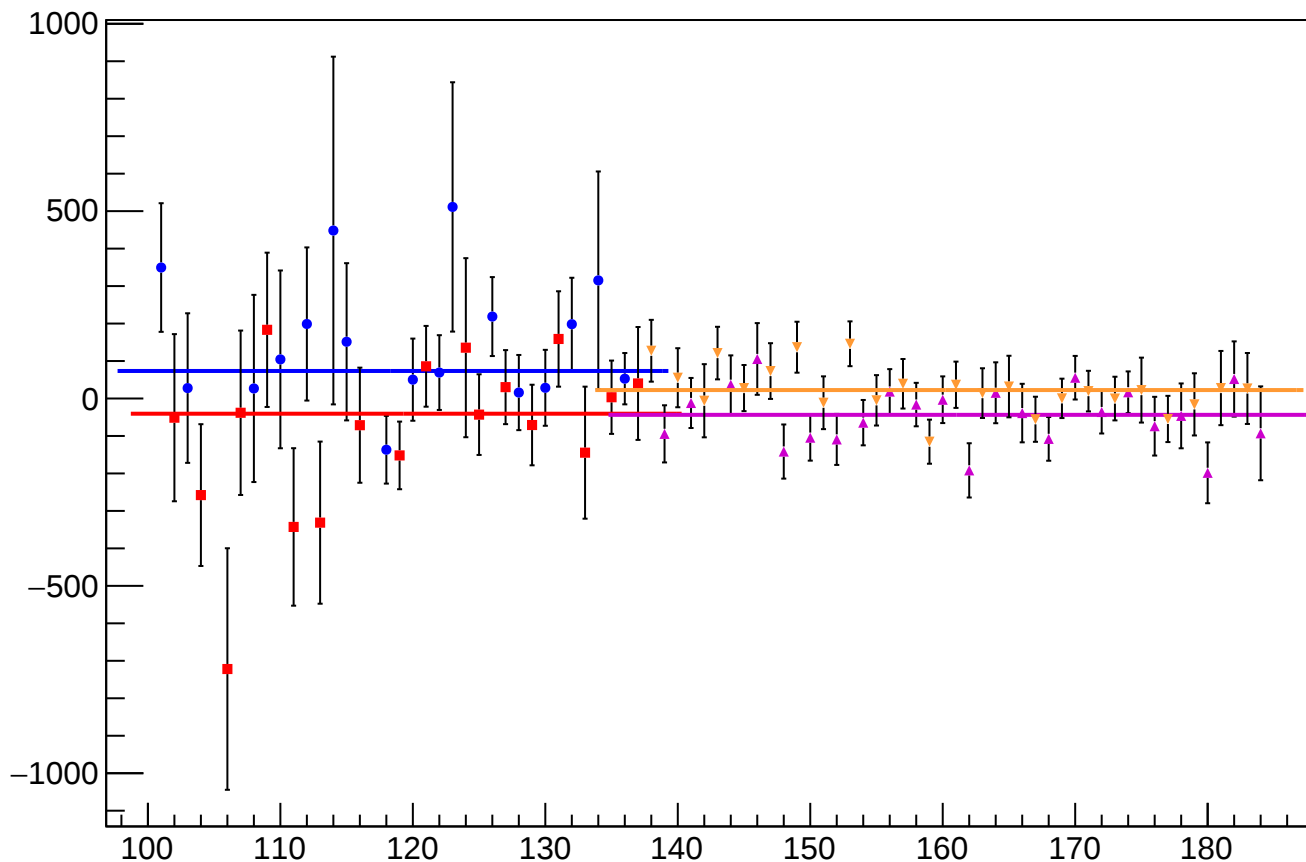
Left In: 785.179+/-0.134  $\chi^2/\text{NDF}$ :976942.0/22

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

All: 788.133+/-0.095  $\chi^2/\text{NDF}$ : 2072719.0/46

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

dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 73.448 $\pm$ 31.060  $\chi^2$ /NDF: 15.3/16

Left Out: 22.519 $\pm$ 13.915  $\chi^2$ /NDF:21.2/23

Right Out: -40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

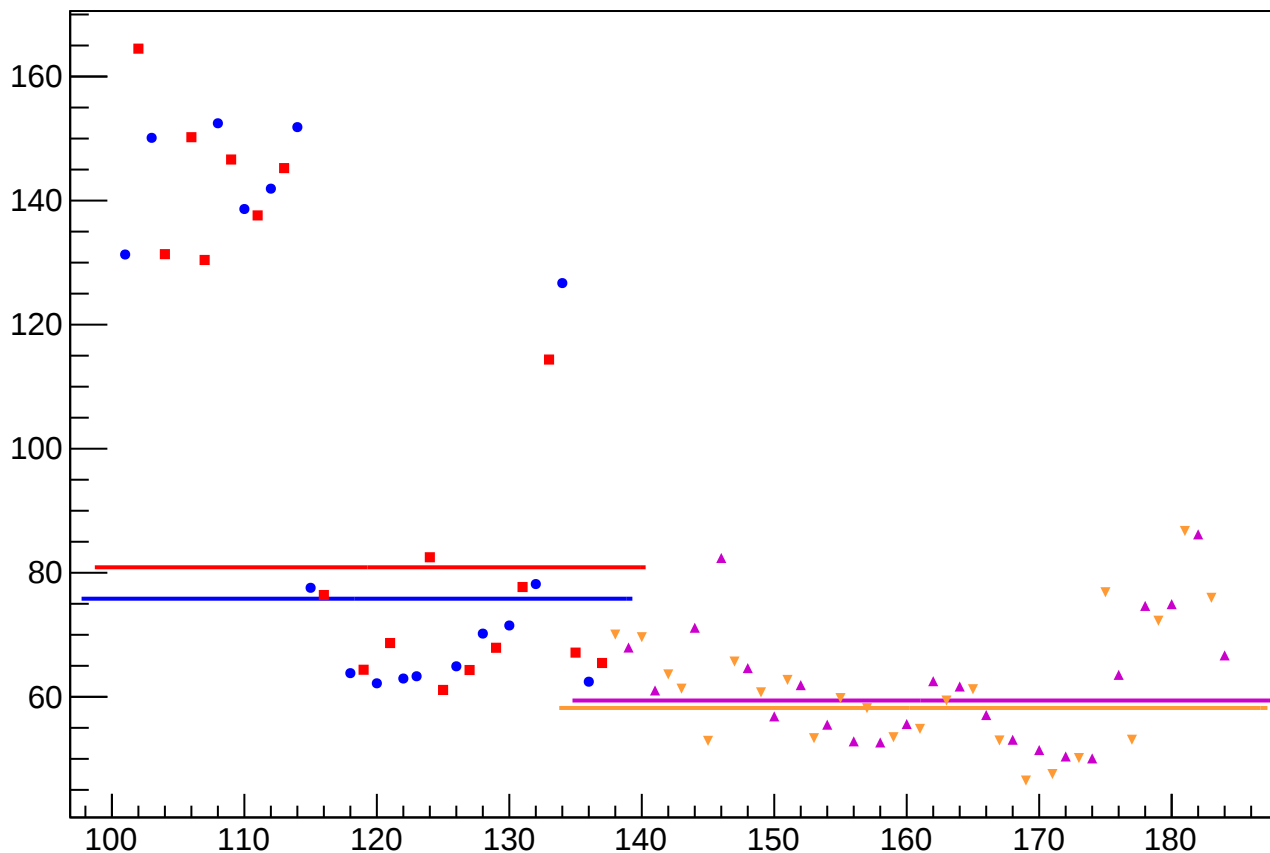
Left In: -43.624 $\pm$ 14.461  $\chi^2$ /NDF:24.6/22

+ sign 31.033 $\pm$ 12.699  $\chi^2$ /NDF: 38.8/40

All: -4.535 $\pm$ 9.161  $\chi^2$ /NDF: 97.9/81

- sign -43.129 $\pm$ 13.229  $\chi^2$ /NDF: 42.8/40

dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 75.820 $\pm$ 0.022  $\chi^2$ /NDF: 1349961.8/16

Left Out: 58.206 $\pm$ 0.010  $\chi^2$ /NDF: 806257.7/23

Right Out: 80.881 $\pm$ 0.023  $\chi^2$ /NDF: 1526044.5/17

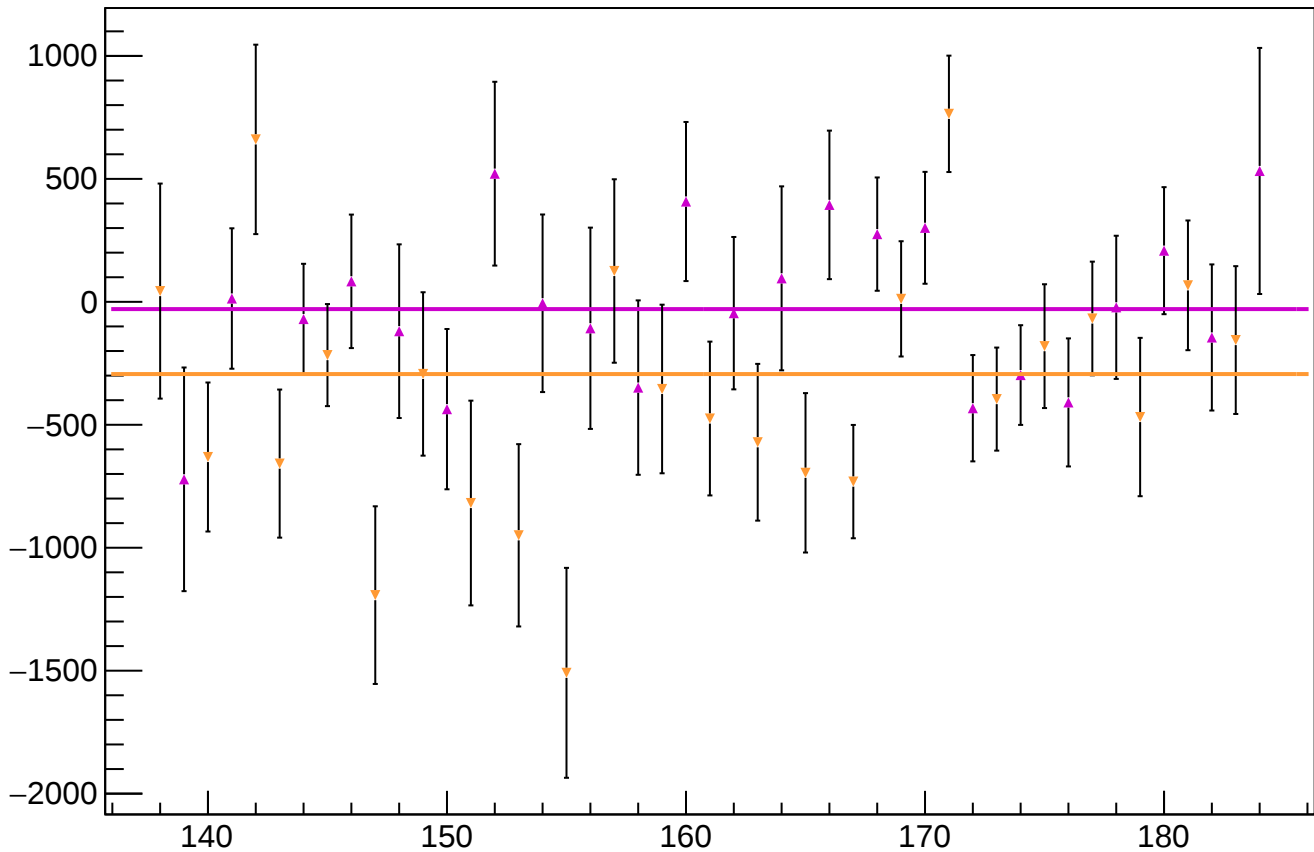
Left In: 59.407 $\pm$ 0.010  $\chi^2$ /NDF: 734143.0/22

+ sign 61.151 $\pm$ 0.009  $\chi^2$ /NDF: 2691849.7/40

All: 61.995 $\pm$ 0.006  $\chi^2$ /NDF: 5690286.9/81

- sign 62.912 $\pm$ 0.009  $\chi^2$ /NDF: 2979994.4/40

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



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

Left Out: -293.720 $\pm$ 59.246  $\chi^2$ /NDF:61.6/23

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

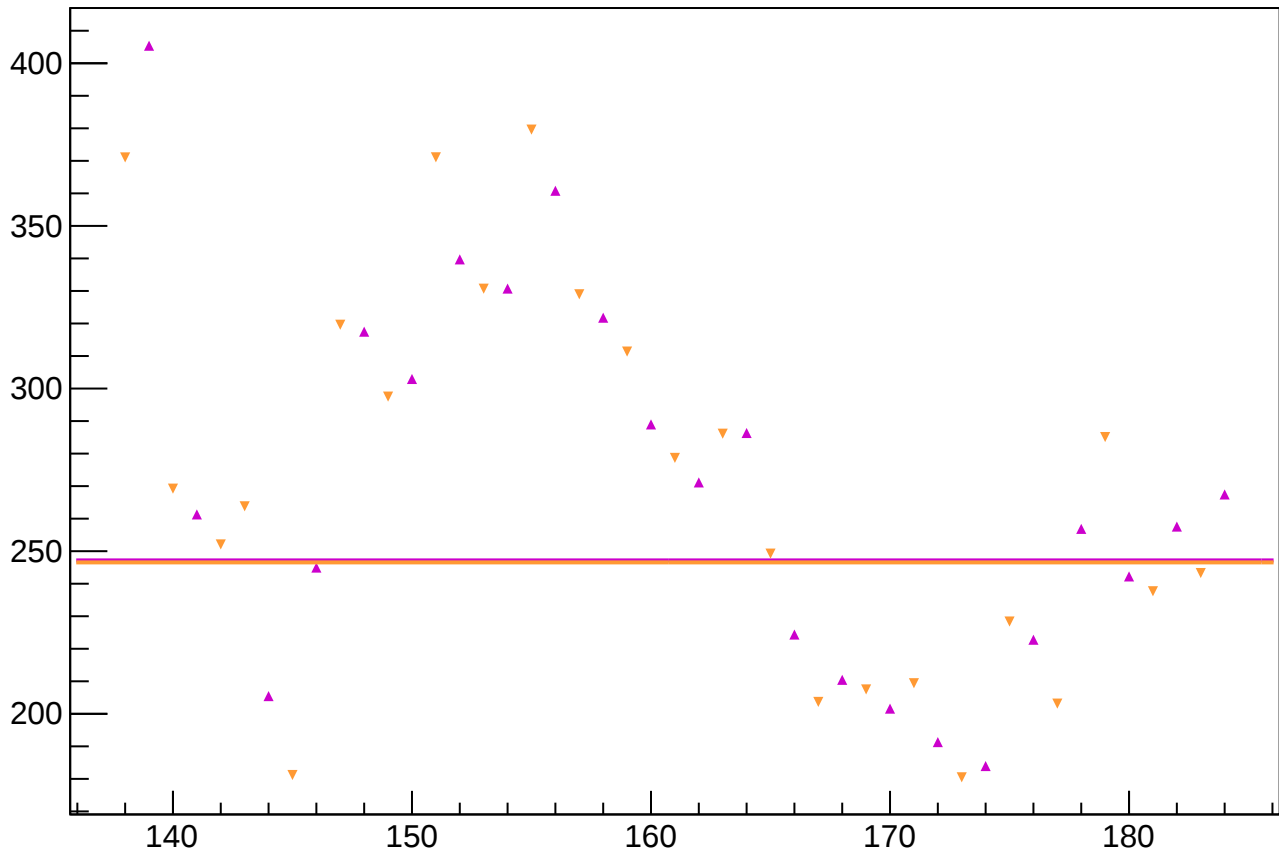
Left In: -29.526 $\pm$ 60.246  $\chi^2$ /NDF:24.6/22

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

All: -163.834 $\pm$ 42.242  $\chi^2$ /NDF: 95.9/46

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

# asym\_sam\_1526\_avg\_correction\_rms vs Slug



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

Left Out: 246.553+/-0.042  $\chi^2/\text{NDF}$ : 1690159.4/23

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

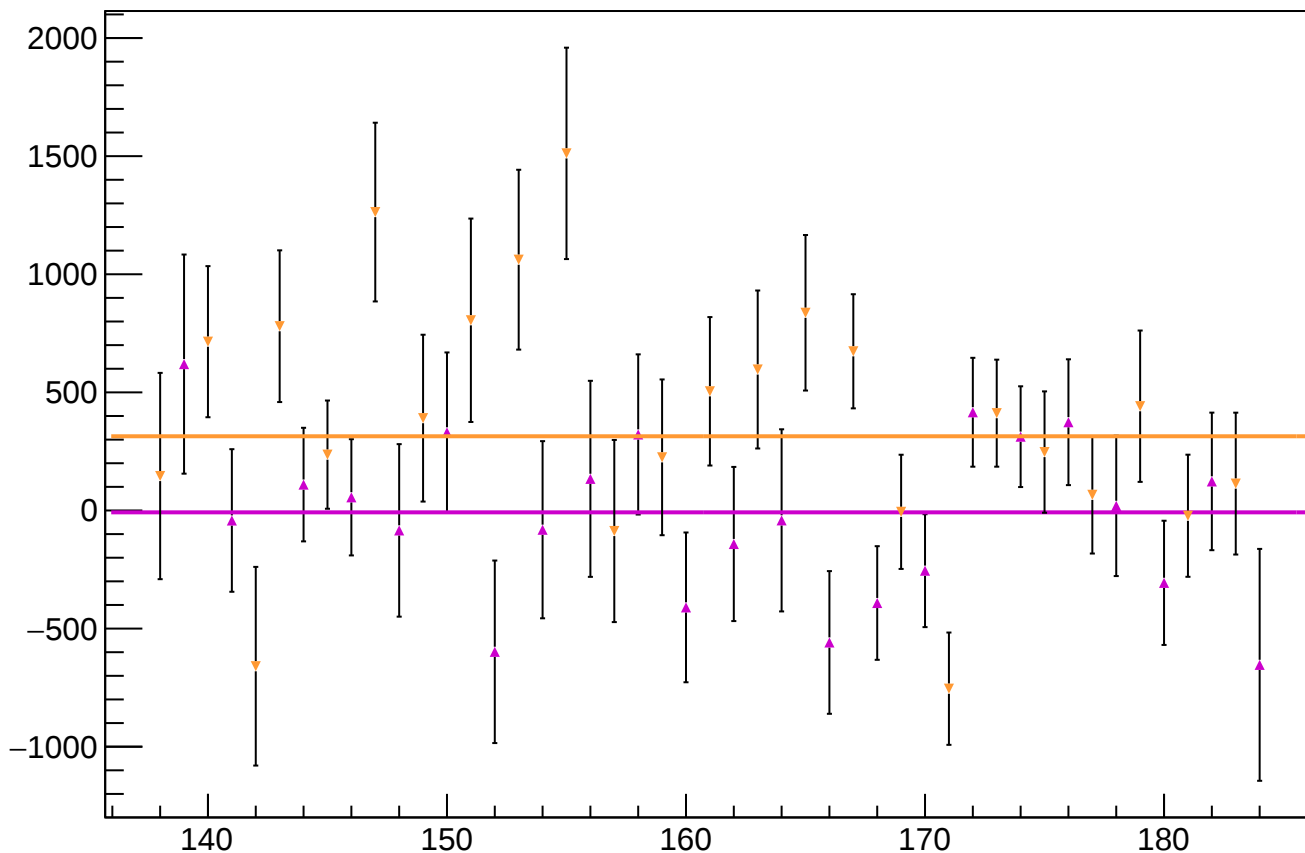
Left In: 247.165+/-0.043  $\chi^2/\text{NDF}$ : 1490480.7/22

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

All: 246.854+/-0.030  $\chi^2/\text{NDF}$ : 3180744.9/46

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

# asym\_sam\_1526\_avg\_mean vs Slug



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

Left Out: 314.159 $\pm$ 61.487  $\chi^2$ /NDF:60.4/23

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

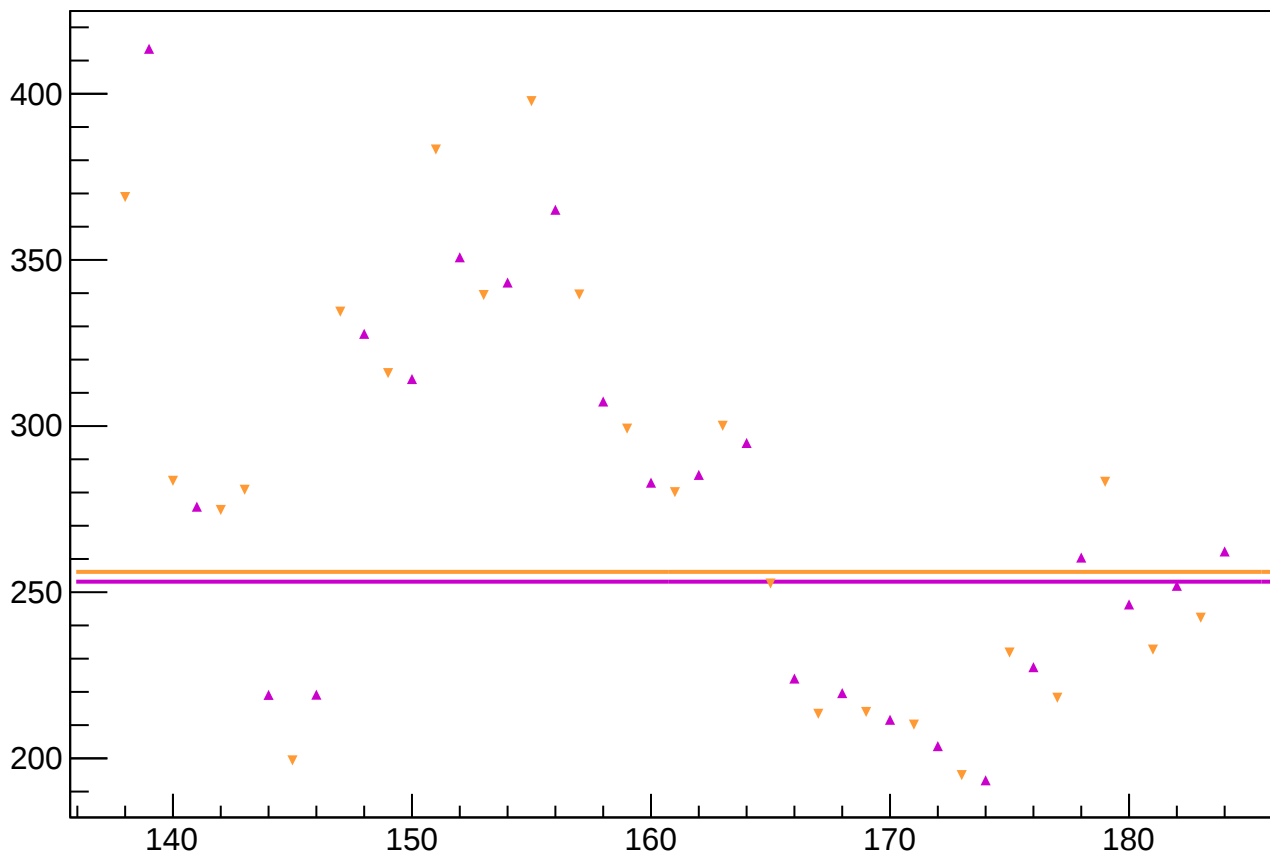
Left In: -7.915 $\pm$ 61.726  $\chi^2$ /NDF:26.3/22

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

All: 153.745 $\pm$ 43.562  $\chi^2$ /NDF: 100.4/46

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

# asym\_sam\_1526\_avg\_rms vs Slug



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

Left Out: 256.122+/-0.043  $\chi^2/\text{NDF}$ :1517770.2/23

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

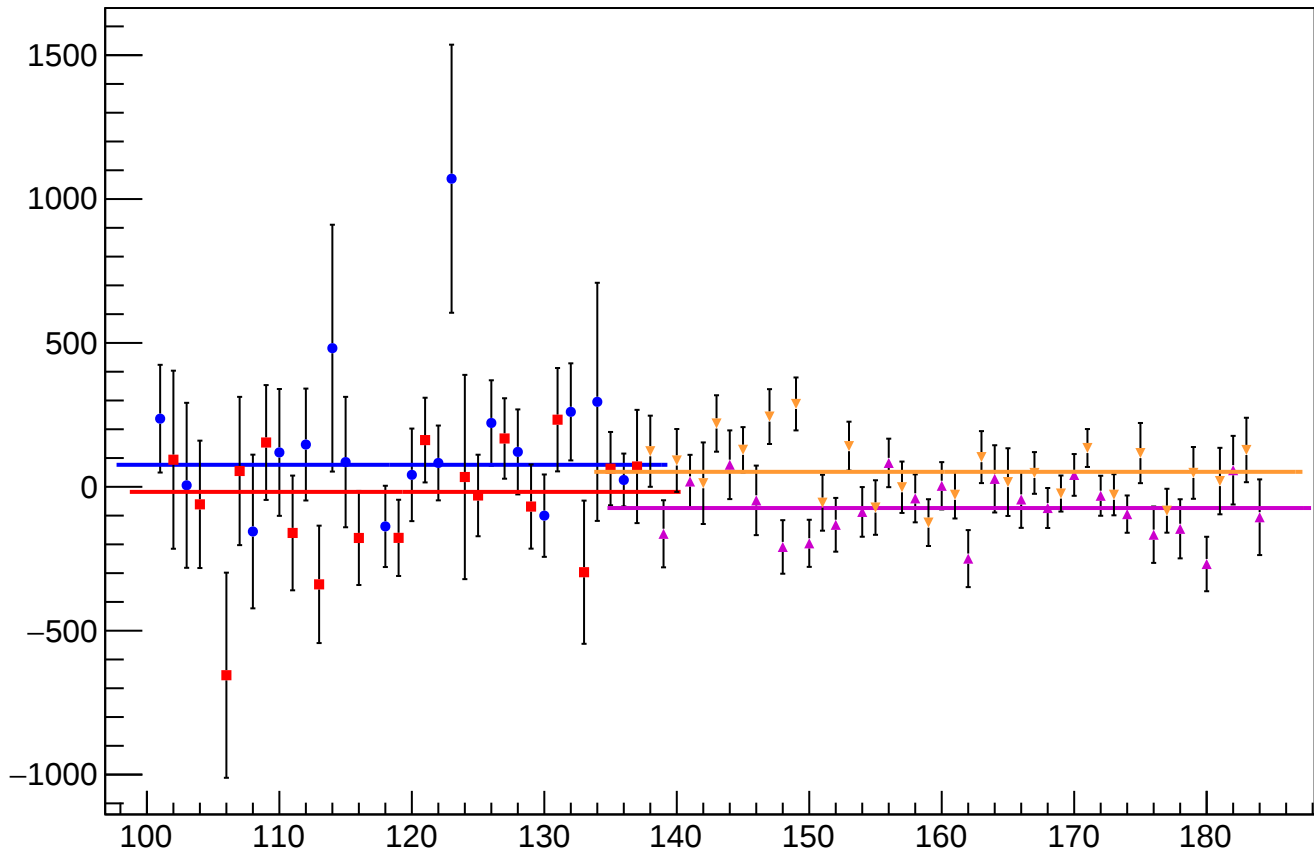
Left In: 253.170+/-0.044  $\chi^2/\text{NDF}$ :1366527.6/22

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

All: 254.652+/-0.031  $\chi^2/\text{NDF}$ : 2886594.1/46

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

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 76.503 $\pm$ 41.558  $\chi^2$ /NDF: 13.9/16

Left Out: 52.082 $\pm$ 18.020  $\chi^2$ /NDF: 33.9/23

Right Out: -17.605 $\pm$ 42.297  $\chi^2$ /NDF: 16.8/17

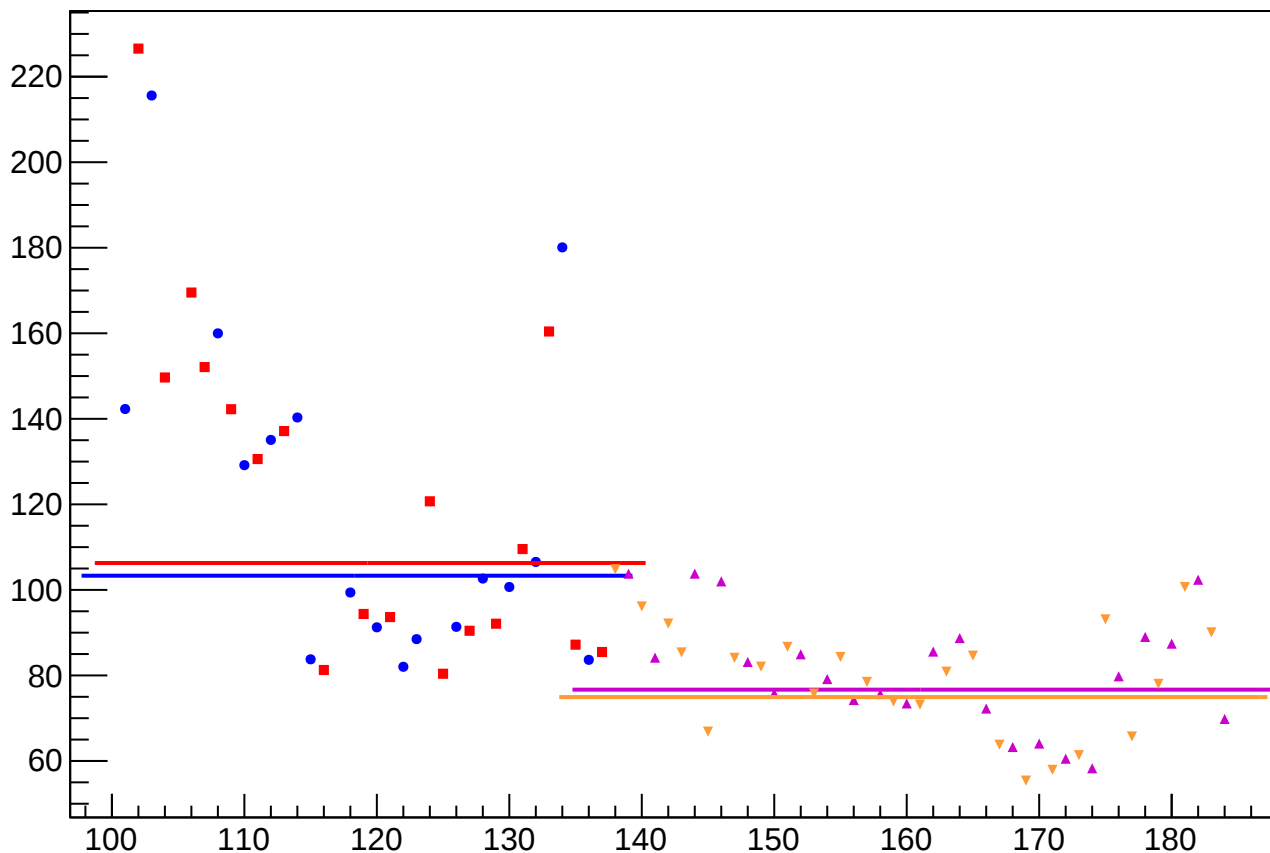
Left In: -73.724 $\pm$ 18.787  $\chi^2$ /NDF: 26.4/22

+ sign 55.947 $\pm$ 16.532  $\chi^2$ /NDF: 48.1/40

All: -1.988 $\pm$ 11.909  $\chi^2$ /NDF: 118.2/81

- sign -64.477 $\pm$ 17.170  $\chi^2$ /NDF: 44.7/40

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 74.940 $\pm$ 0.013  $\chi^2$ /NDF:1046127.8/23

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

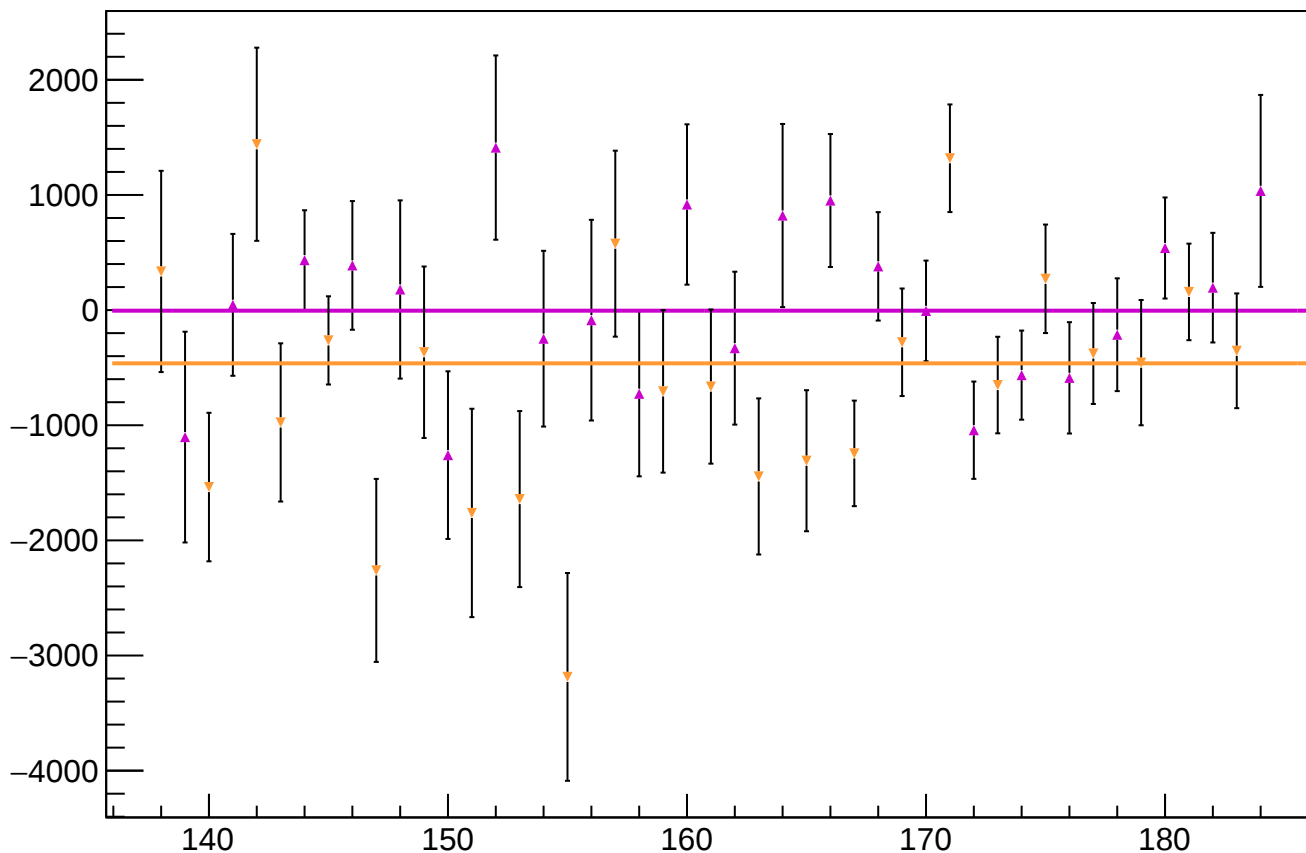
Left In: 76.673 $\pm$ 0.013  $\chi^2$ /NDF:944412.6/22

+ sign 79.431 $\pm$ 0.012  $\chi^2$ /NDF: 2668929.2/40

All: 80.452 $\pm$ 0.008  $\chi^2$ /NDF: 5448831.0/81

- sign 81.553 $\pm$ 0.012  $\chi^2$ /NDF: 2764042.1/40

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



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

Left Out: -462.286 $\pm$ 115.753  $\chi^2$ /NDF:56.6/23

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

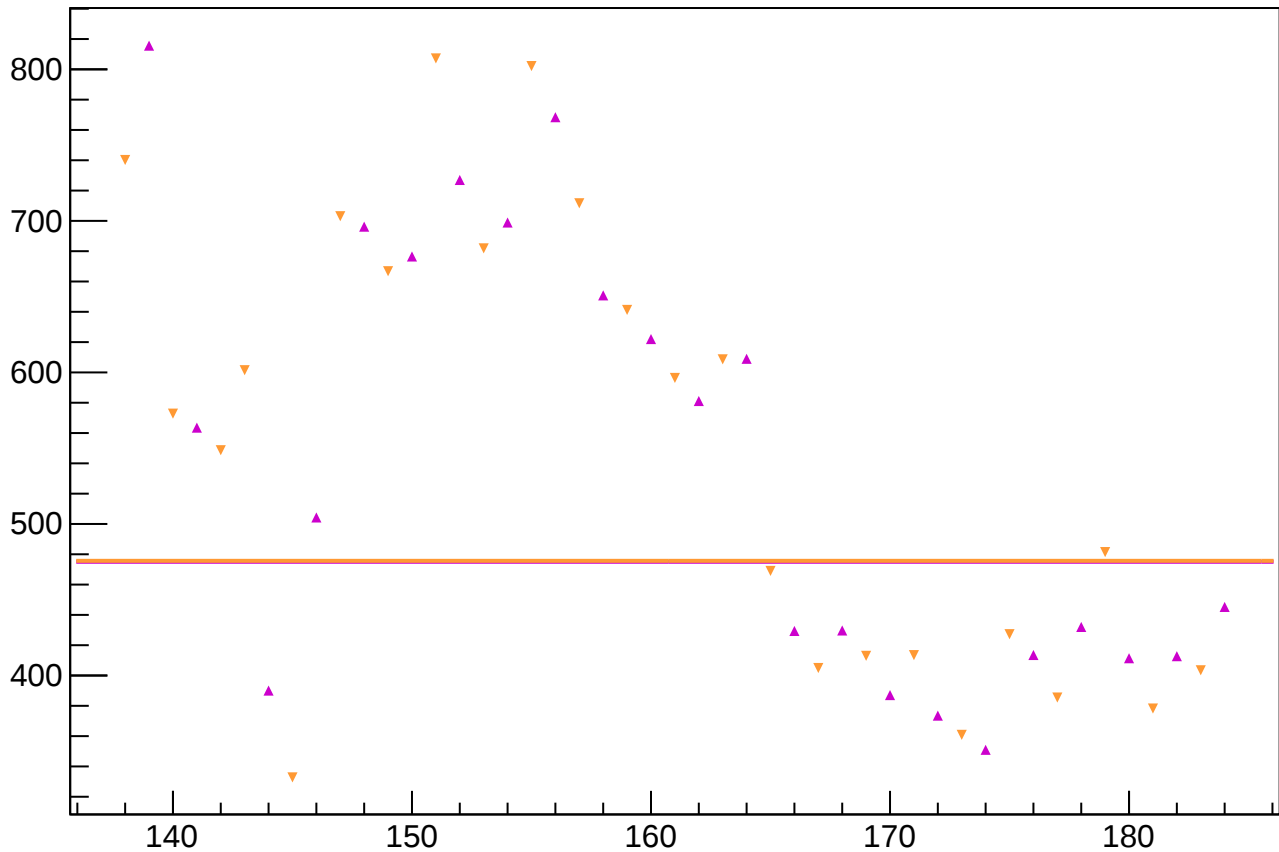
Left In: -5.090 $\pm$ 117.135  $\chi^2$ /NDF:29.8/22

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

All: -236.401 $\pm$ 82.334  $\chi^2$ /NDF: 94.1/46

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

# asym\_sam\_3726\_avg\_correction\_rms vs Slug



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

Left Out: 475.681+/-0.082  $\chi^2/\text{NDF}$ :2508352.5/23

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

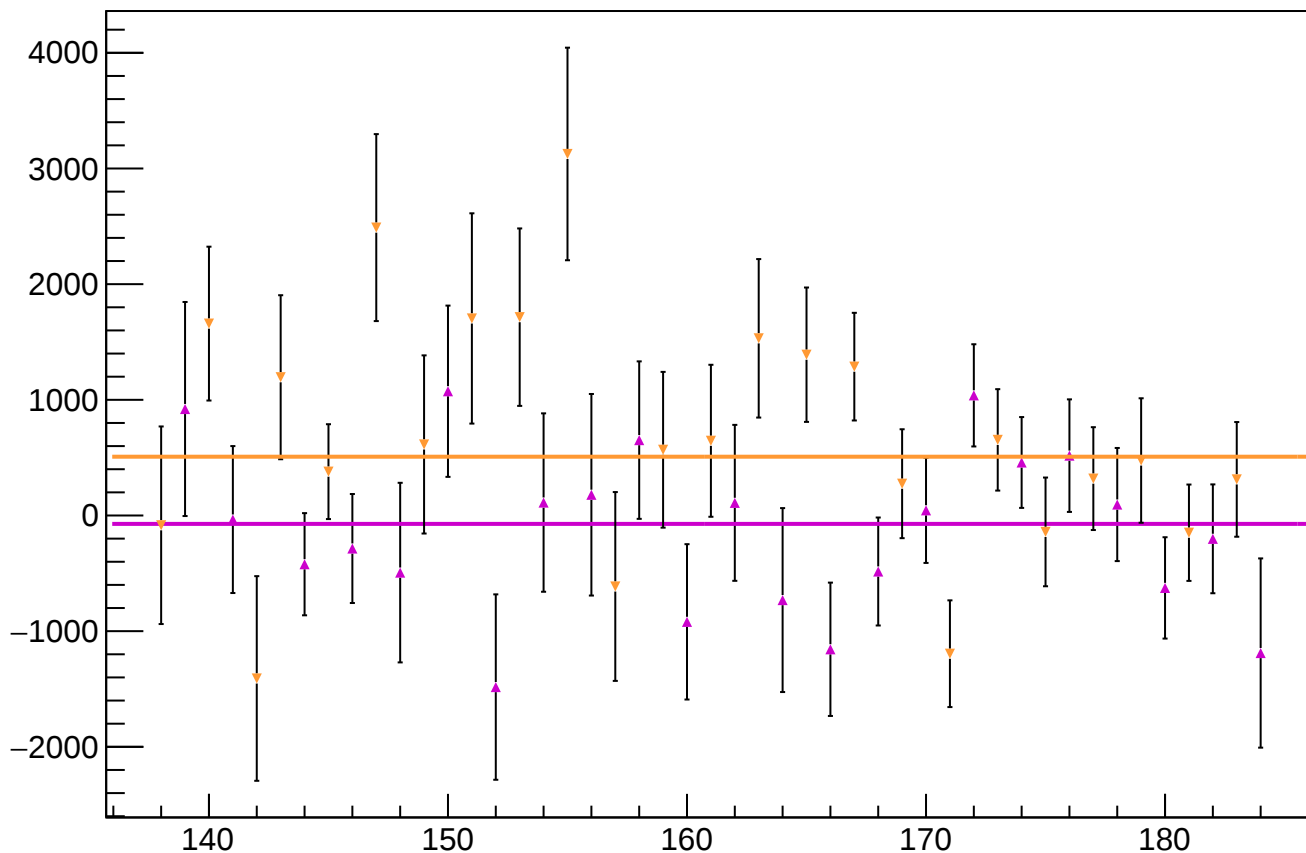
Left In: 475.060+/-0.083  $\chi^2/\text{NDF}$ :2190922.0/22

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

All: 475.374+/-0.058  $\chi^2/\text{NDF}$ : 4699302.9/46

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

# asym\_sam\_3726\_avg\_mean vs Slug



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

Left Out: 508.262 $\pm$ 116.897  $\chi^2$ /NDF:55.6/23

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

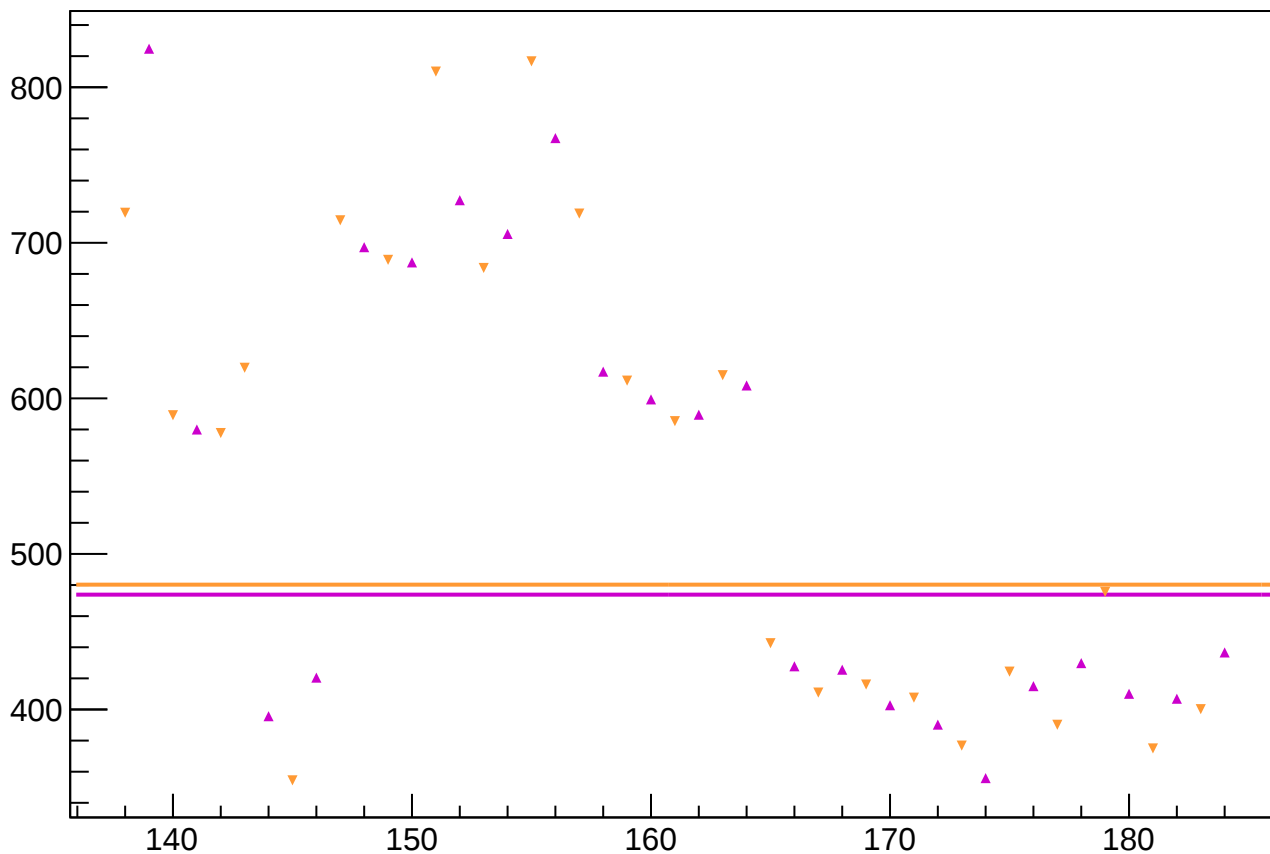
Left In: -72.627 $\pm$ 116.927  $\chi^2$ /NDF:29.1/22

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

All: 217.893 $\pm$ 82.669  $\chi^2$ /NDF: 97.0/46

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

# asym\_sam\_3726\_avg\_rms vs Slug



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

Left Out: 480.251+/-0.083  $\chi^2/\text{NDF}$ : 2404069.9/23

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

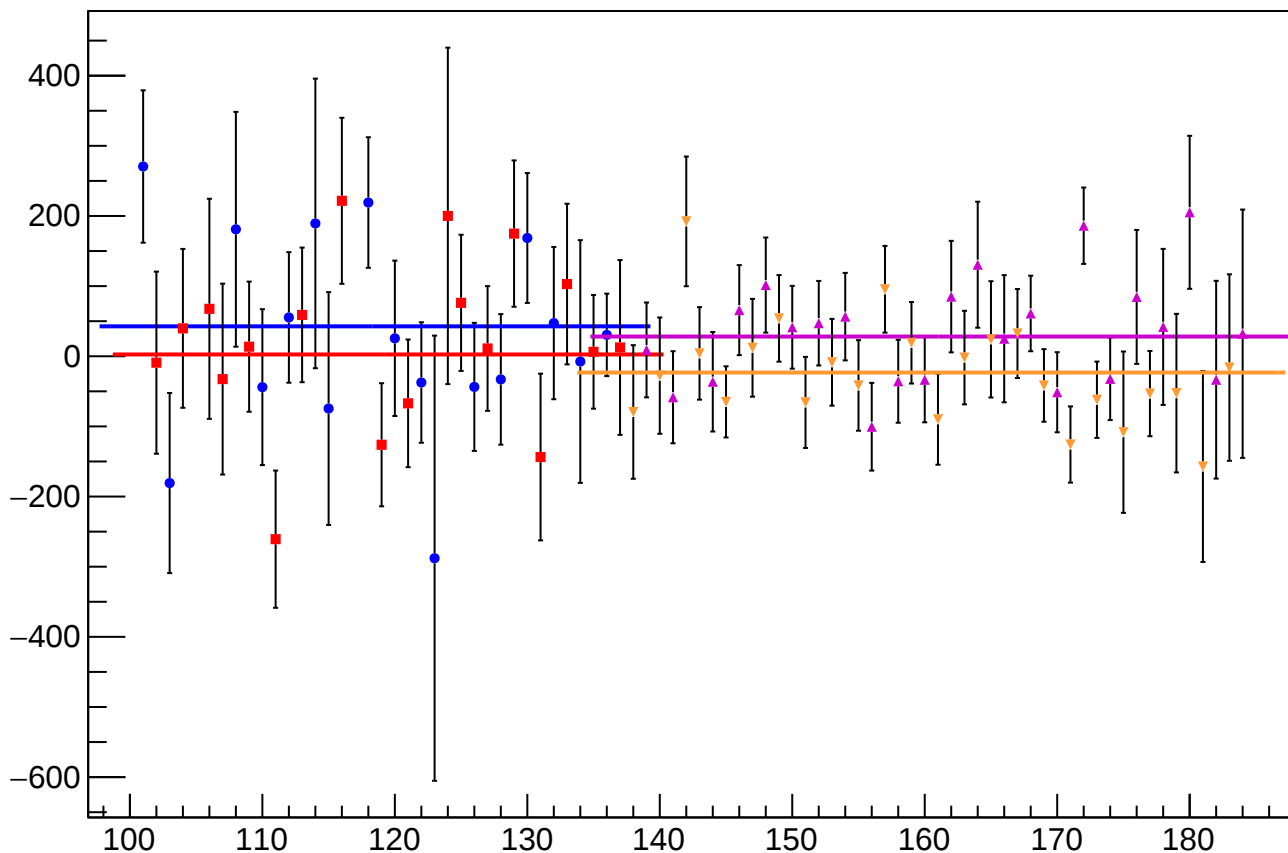
Left In: 473.824+/-0.083  $\chi^2/\text{NDF}$ : 2113753.1/22

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

All: 477.038+/-0.058  $\chi^2/\text{NDF}$ : 4520845.5/46

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

# dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 42.654 $\pm$ 25.486  $\chi^2$ /NDF: 18.9/16

Left Out: -23.203 $\pm$ 13.869  $\chi^2$ /NDF: 21.5/23

Right Out: 2.576 $\pm$ 25.088  $\chi^2$ /NDF: 20.4/17

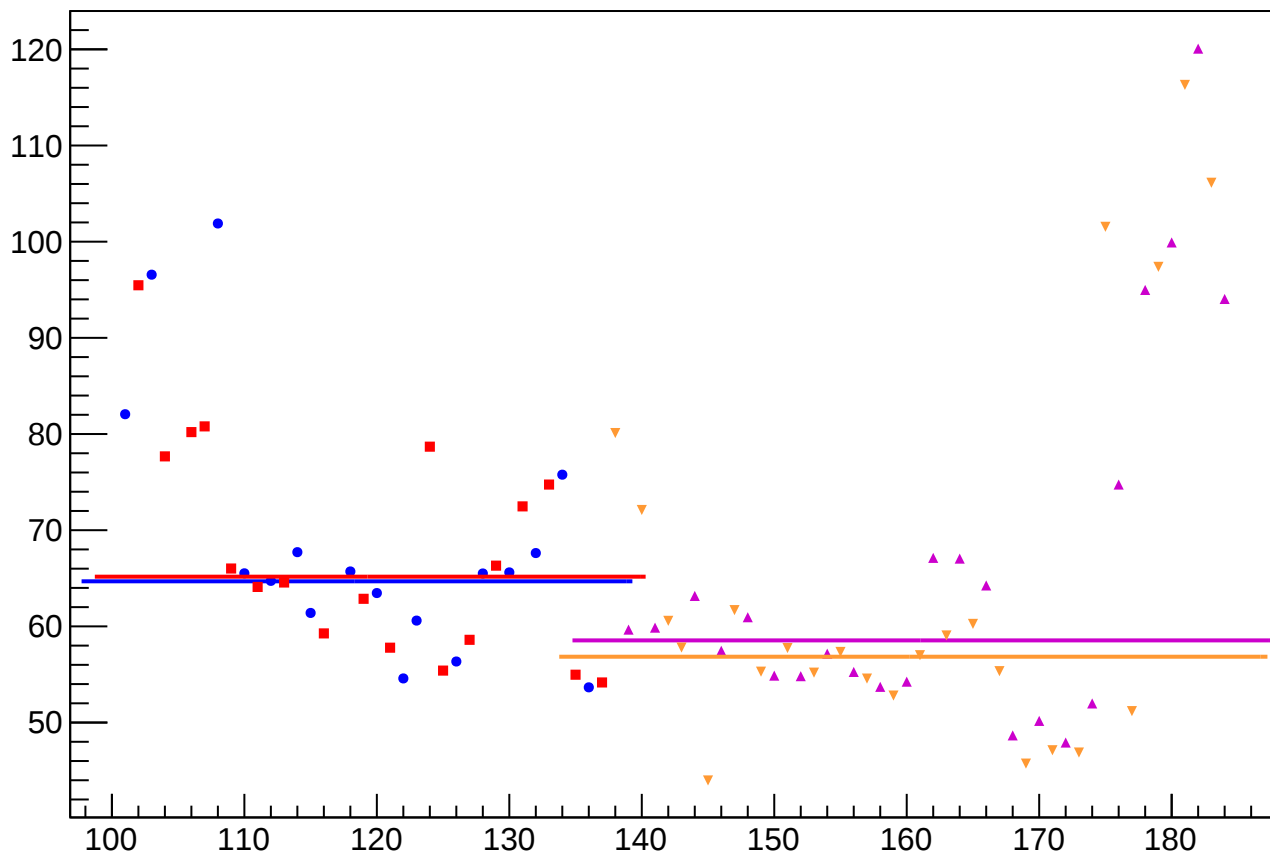
Left In: 28.117 $\pm$ 14.462  $\chi^2$ /NDF: 27.7/22

+ sign -8.157 $\pm$ 12.182  $\chi^2$ /NDF: 45.5/40

All: 6.374 $\pm$ 8.734  $\chi^2$ /NDF: 97.4/81

- sign 21.747 $\pm$ 12.529  $\chi^2$ /NDF: 48.9/40

# dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.685 $\pm$ 0.018  $\chi^2$ /NDF: 400187.1/16

Left Out: 56.845 $\pm$ 0.010  $\chi^2$ /NDF:1808458.2/23

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

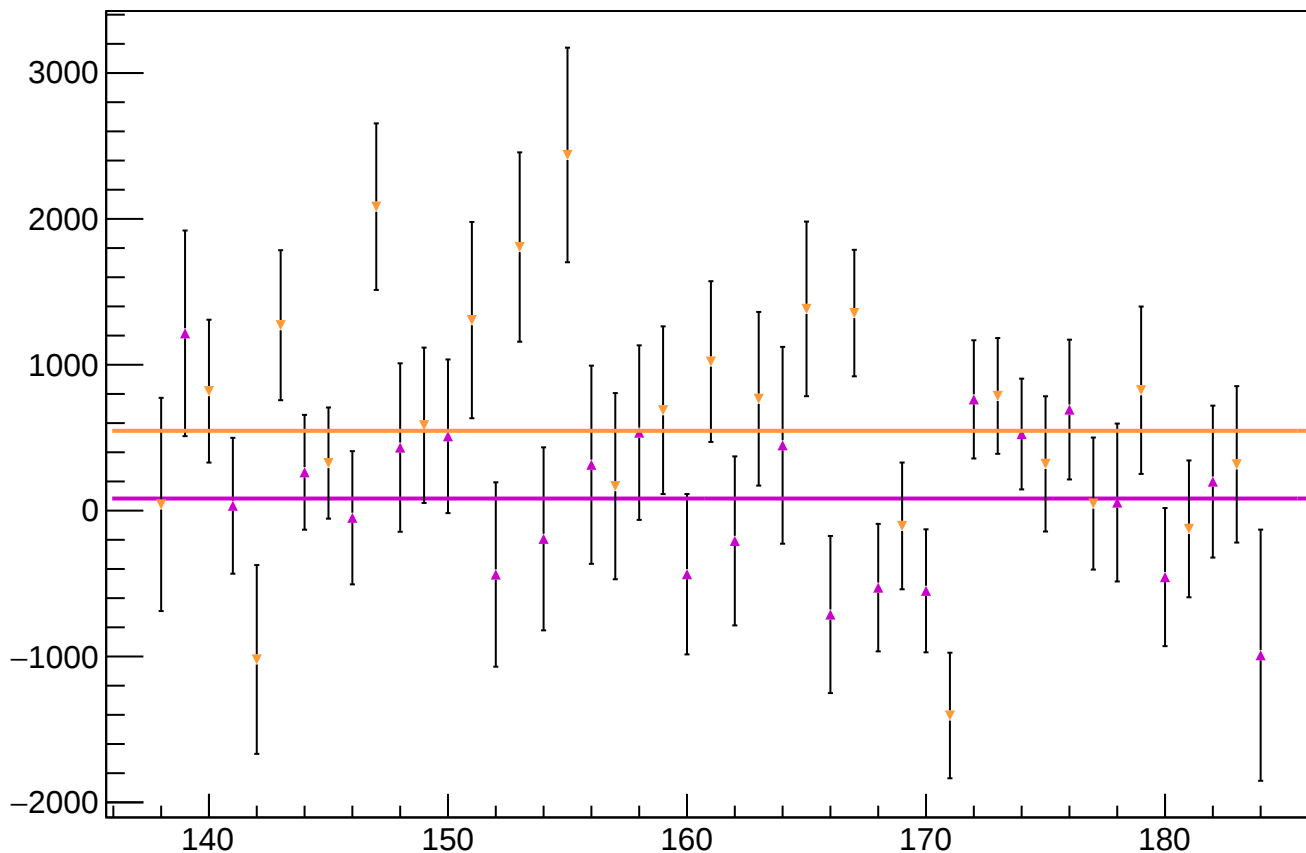
Left In: 58.542 $\pm$ 0.010  $\chi^2$ /NDF:1340216.9/22

+ sign 58.636 $\pm$ 0.009  $\chi^2$ /NDF: 2354704.9/40

All: 59.393 $\pm$ 0.006  $\chi^2$ /NDF: 4120096.6/81

- sign 60.195 $\pm$ 0.009  $\chi^2$ /NDF: 1749478.2/40

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



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

Left Out: 547.268+/-105.721  $\chi^2/\text{NDF}$ : 61.7/23

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

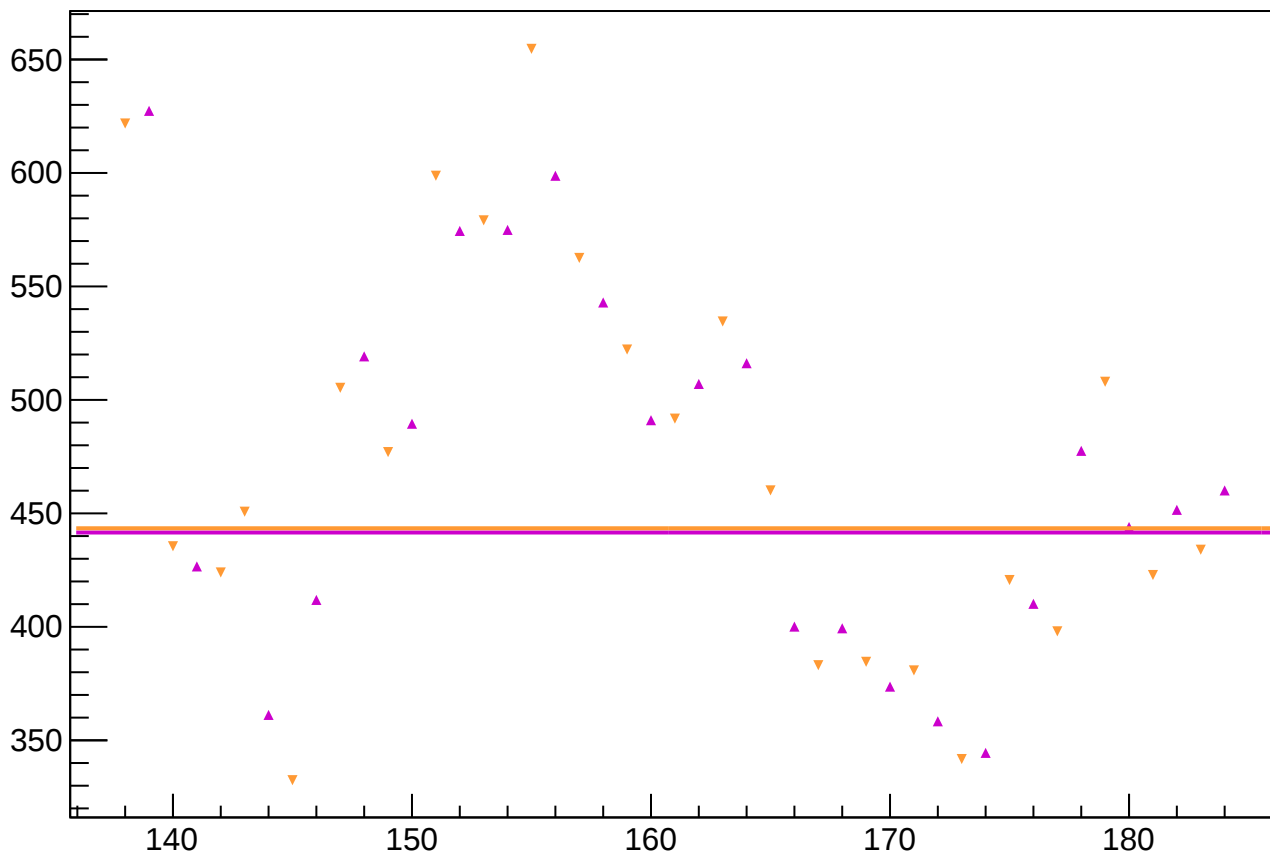
Left In: 82.880+/-106.864  $\chi^2/\text{NDF}$ : 22.0/22

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

All: 317.571+/-75.157  $\chi^2/\text{NDF}$ : 93.2/46

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

# asym\_sam\_15\_48\_dd\_correction\_rms vs Slug



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

Left Out: 443.441+/-0.075  $\chi^2/\text{NDF}$ :1156813.8/23

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

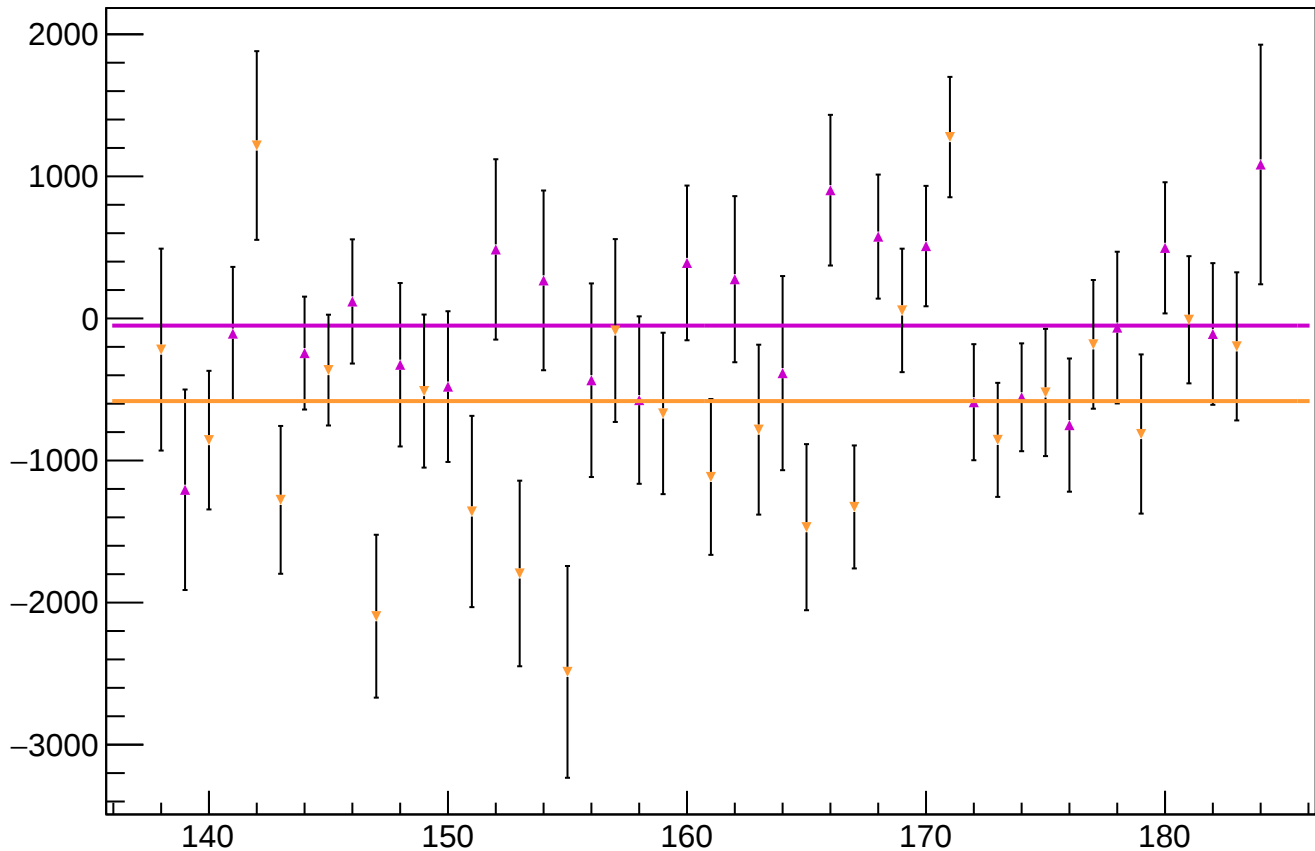
Left In: 441.571+/-0.076  $\chi^2/\text{NDF}$ :1011637.1/22

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

All: 442.516+/-0.053  $\chi^2/\text{NDF}$ : 2168760.4/46

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

# asym\_sam\_15\_48\_dd\_mean vs Slug



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

Left Out: -581.685 $\pm$ 105.259  $\chi^2$ /NDF:60.3/23

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

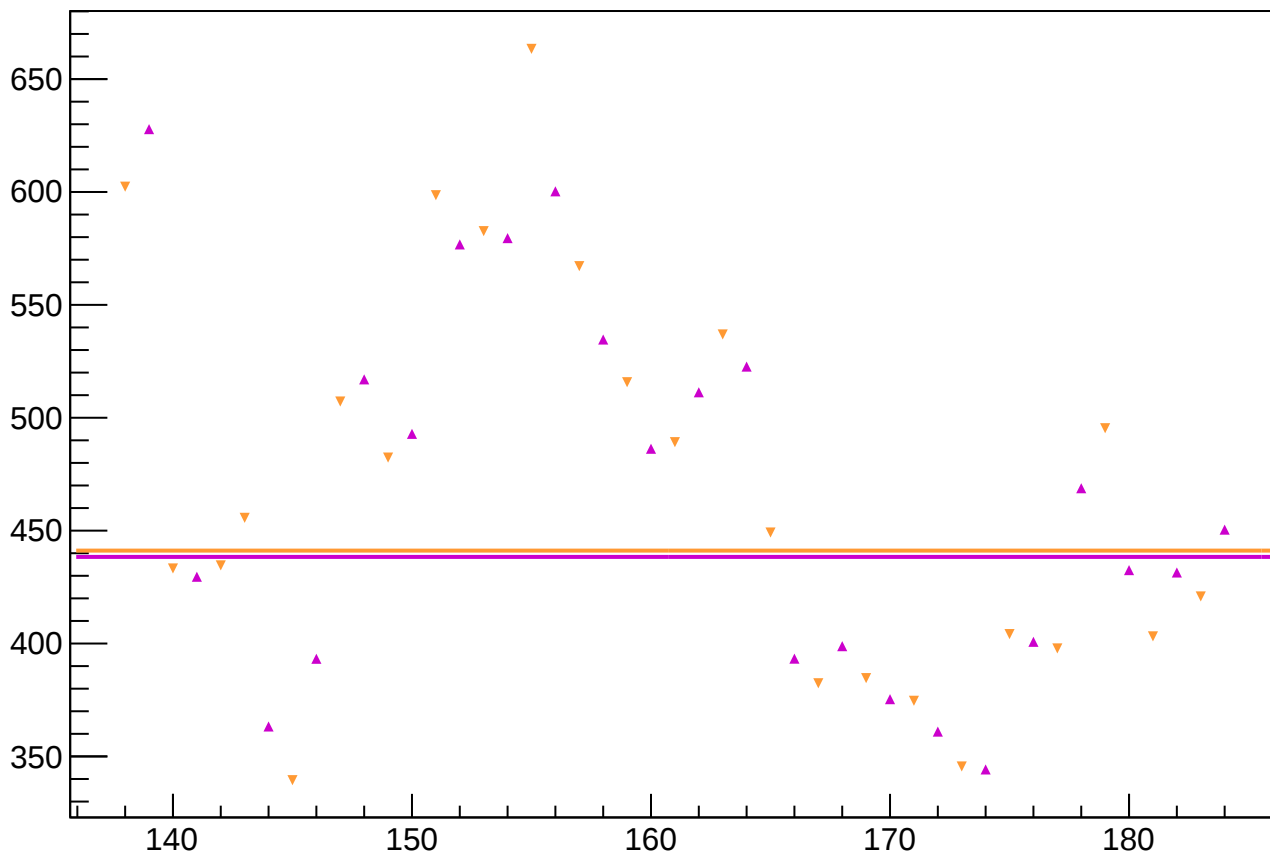
Left In: -50.387 $\pm$ 106.218  $\chi^2$ /NDF:23.3/22

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

All: -318.446 $\pm$ 74.766  $\chi^2$ /NDF: 96.2/46

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

# asym\_sam\_15\_48\_dd\_rms vs Slug



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

Left Out: 441.157+/-0.074  $\chi^2/\text{NDF}$ : 1140102.4/23

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

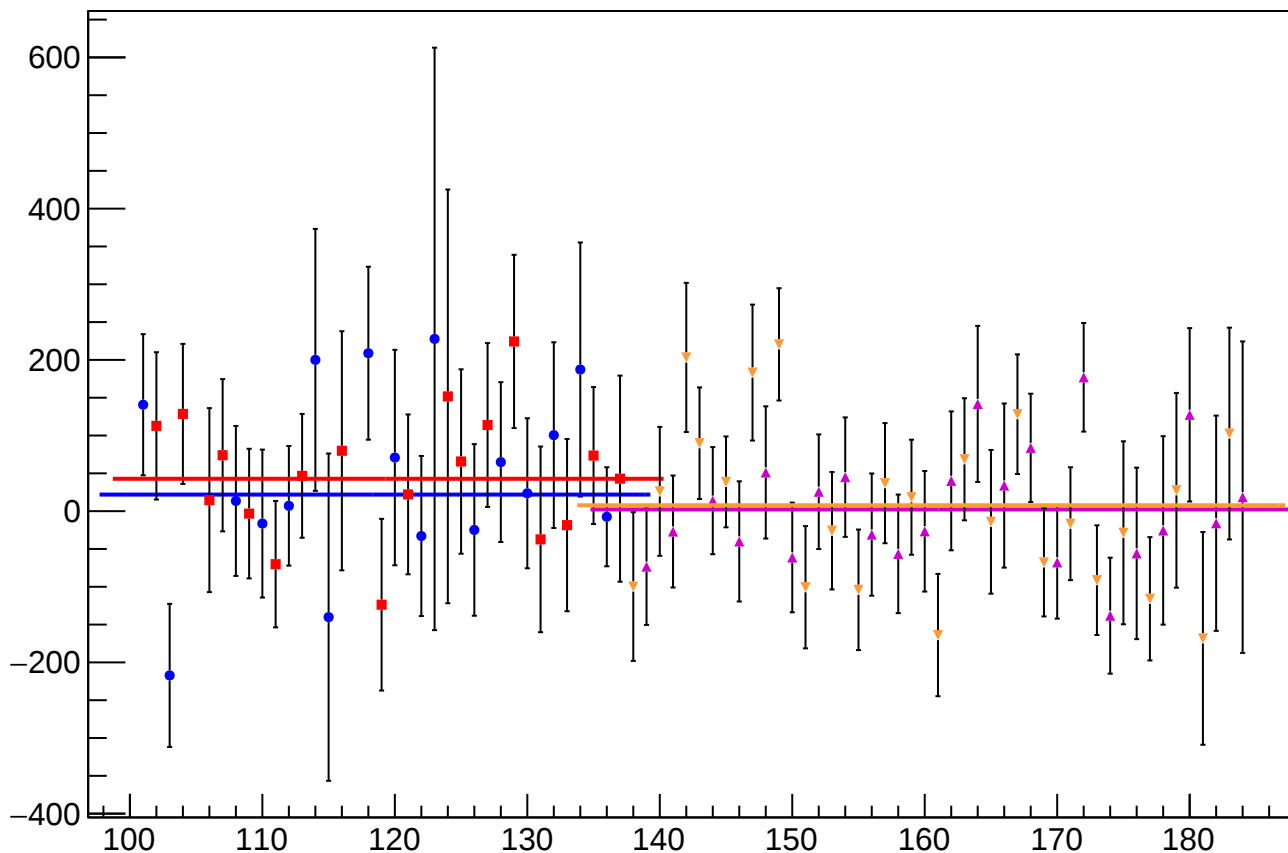
Left In: 438.365+/-0.075  $\chi^2/\text{NDF}$ : 1024661.1/22

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

All: 439.774+/-0.053  $\chi^2/\text{NDF}$ : 2165460.9/46

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

# dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In:  $21.908 \pm 26.055$   $\chi^2/\text{NDF}$ : 15.1/16

Left Out:  $7.807 \pm 17.049$   $\chi^2/\text{NDF}$ : 37.8/23

Right Out:  $42.817 \pm 25.116$   $\chi^2/\text{NDF}$ : 9.9/17

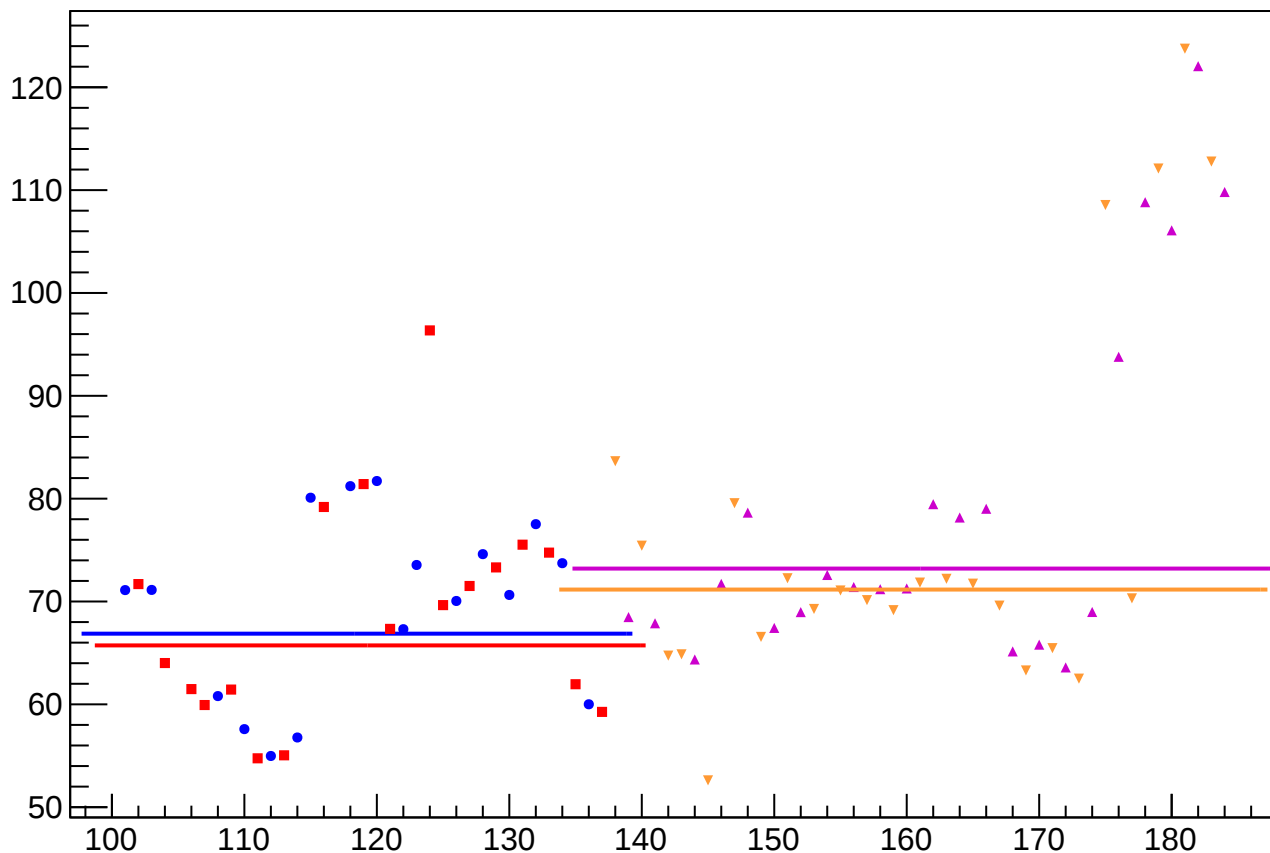
Left In:  $2.213 \pm 17.775$   $\chi^2/\text{NDF}$ : 18.8/22

+ sign  $12.034 \pm 14.266$   $\chi^2/\text{NDF}$ : 53.1/40

All:  $13.867 \pm 10.172$   $\chi^2/\text{NDF}$ : 83.5/81

- sign  $15.763 \pm 14.509$   $\chi^2/\text{NDF}$ : 30.4/40

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In:  $66.872 \pm 0.018$   $\chi^2/\text{NDF}$ : 202515.6/16

Left Out:  $71.161 \pm 0.012$   $\chi^2/\text{NDF}$ : 1194674.5/23

Right Out:  $65.731 \pm 0.018$   $\chi^2/\text{NDF}$ : 218867.5/17

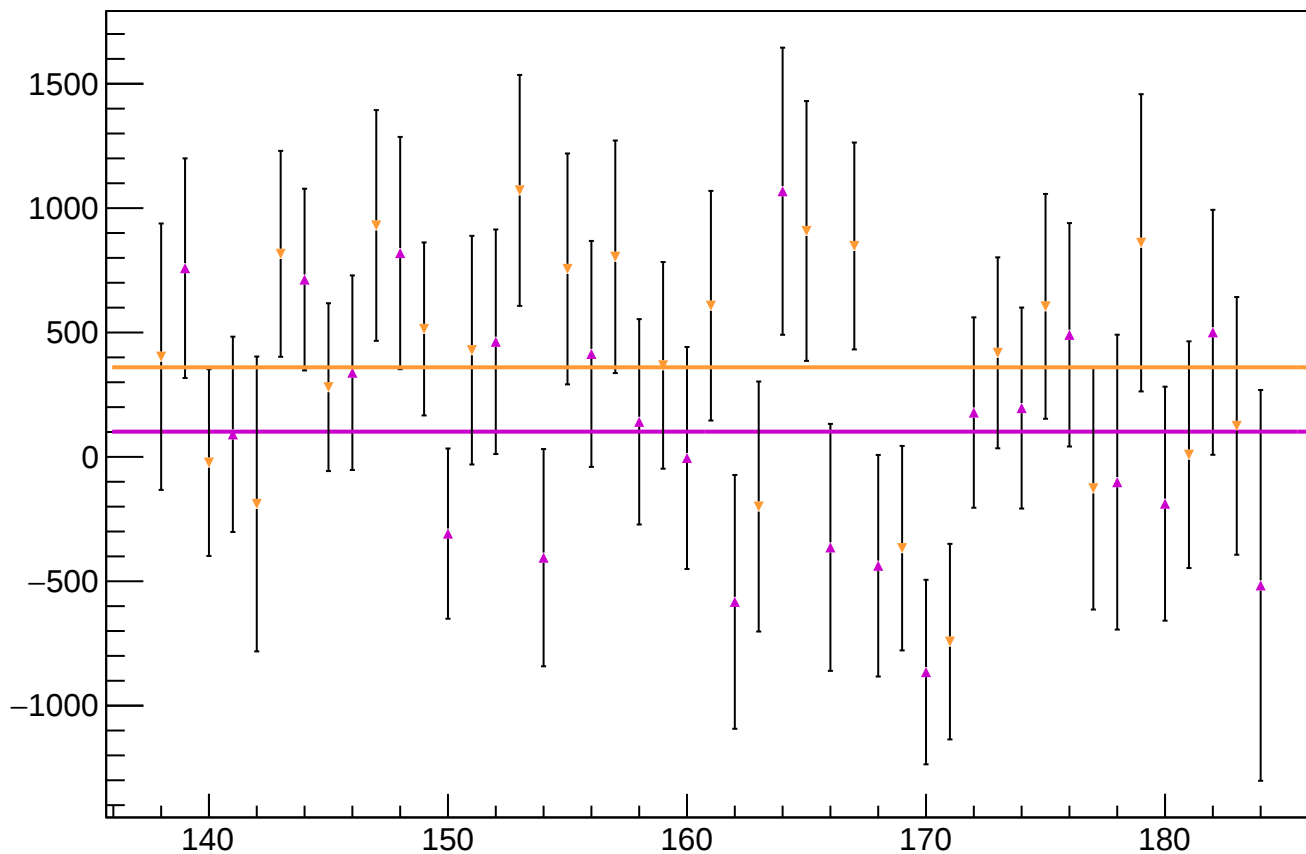
Left In:  $73.201 \pm 0.013$   $\chi^2/\text{NDF}$ : 879338.5/22

+ sign  $69.875 \pm 0.010$   $\chi^2/\text{NDF}$ : 1435138.4/40

All:  $70.285 \pm 0.007$   $\chi^2/\text{NDF}$ : 2654592.4/81

- sign  $70.708 \pm 0.010$   $\chi^2/\text{NDF}$ : 1216103.1/40

# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



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

Left Out: 360.194 $\pm$ 90.130  $\chi^2$ /NDF: 26.7/23

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

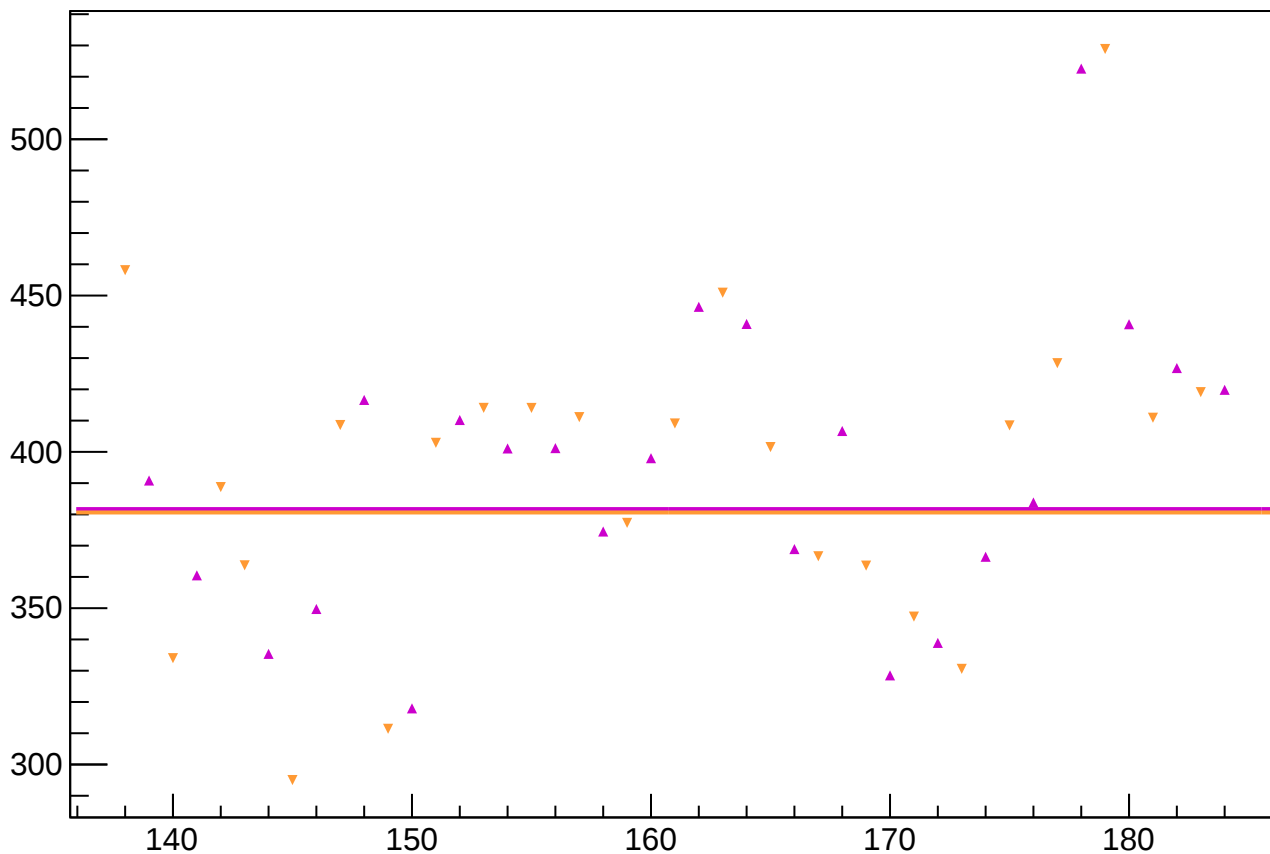
Left In: 101.465 $\pm$ 91.704  $\chi^2$ /NDF: 28.1/22

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

All: 233.070 $\pm$ 64.281  $\chi^2$ /NDF: 58.8/46

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

# asym\_sam\_37\_48\_dd\_correction\_rms vs Slug



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

Left Out: 380.615+/-0.064  $\chi^2/\text{NDF}$ : 599606.7/23

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

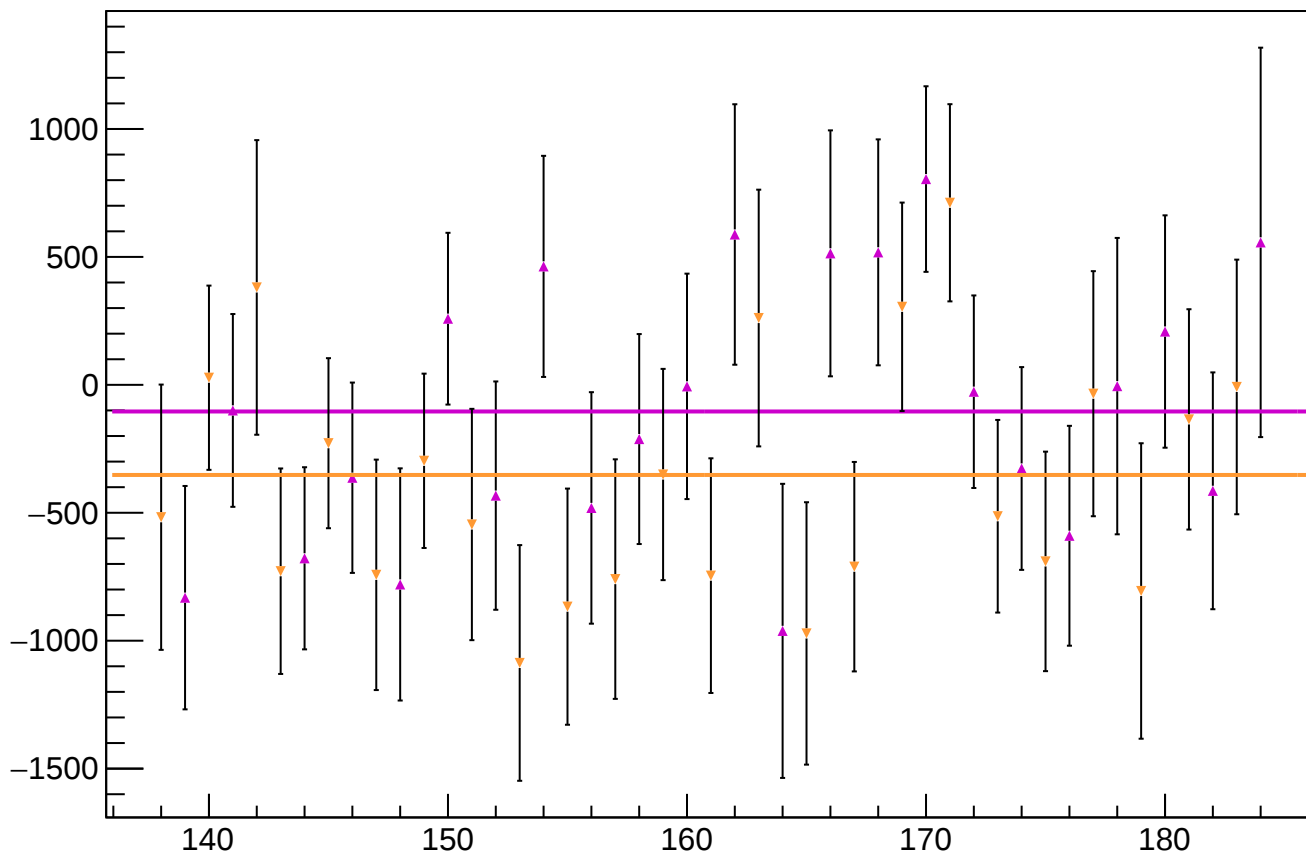
Left In: 381.700+/-0.065  $\chi^2/\text{NDF}$ : 447665.1/22

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

All: 381.148+/-0.045  $\chi^2/\text{NDF}$ : 1047414.1/46

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

# asym\_sam\_37\_48\_dd\_mean vs Slug



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

Left Out:  $-352.213 \pm 88.207$   $\chi^2/\text{NDF}$ : 26.6/23

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

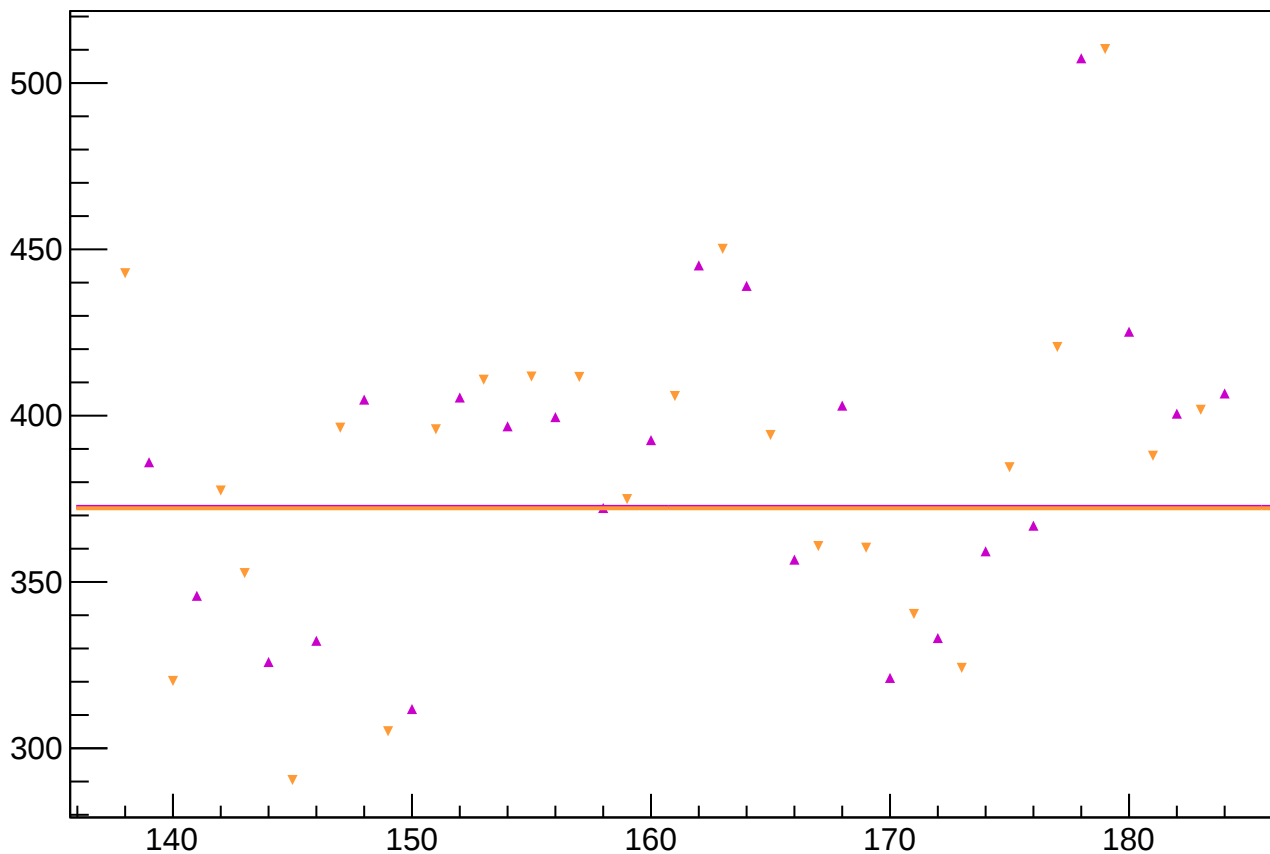
Left In:  $-104.117 \pm 89.613$   $\chi^2/\text{NDF}$ : 29.7/22

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

All:  $-230.126 \pm 62.863$   $\chi^2/\text{NDF}$ : 60.2/46

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

# asym\_sam\_37\_48\_dd\_rms vs Slug



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

Left Out: 372.158+/-0.062  $\chi^2/\text{NDF}$ : 594831.5/23

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

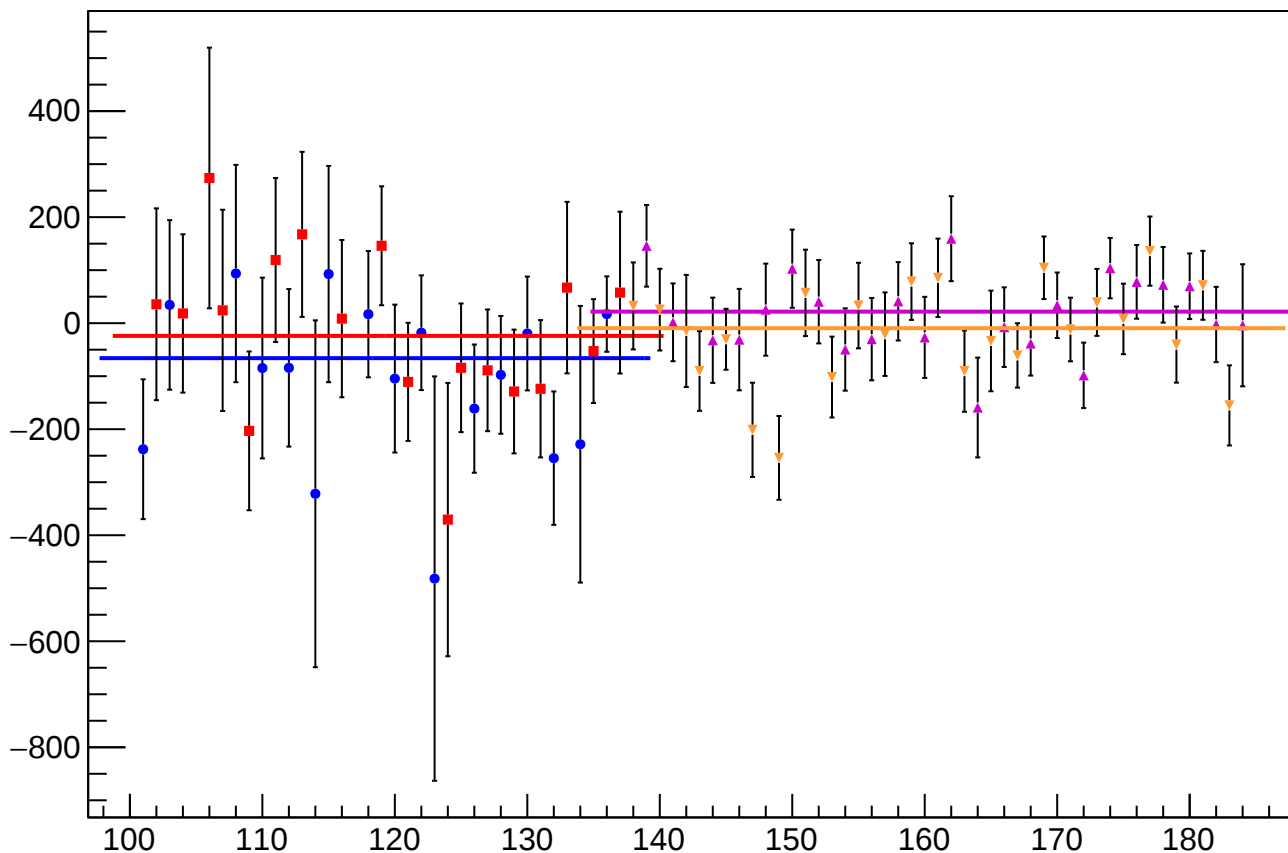
Left In: 372.574+/-0.063  $\chi^2/\text{NDF}$ : 464397.2/22

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

All: 372.363+/-0.044  $\chi^2/\text{NDF}$ : 1059250.7/46

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

# dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In:  $-65.974 \pm 32.289$   $\chi^2/\text{NDF}$ : 10.8/16

Left Out:  $-9.418 \pm 14.713$   $\chi^2/\text{NDF}$ : 38.3/23

Right Out:  $-23.979 \pm 32.790$   $\chi^2/\text{NDF}$ : 12.9/17

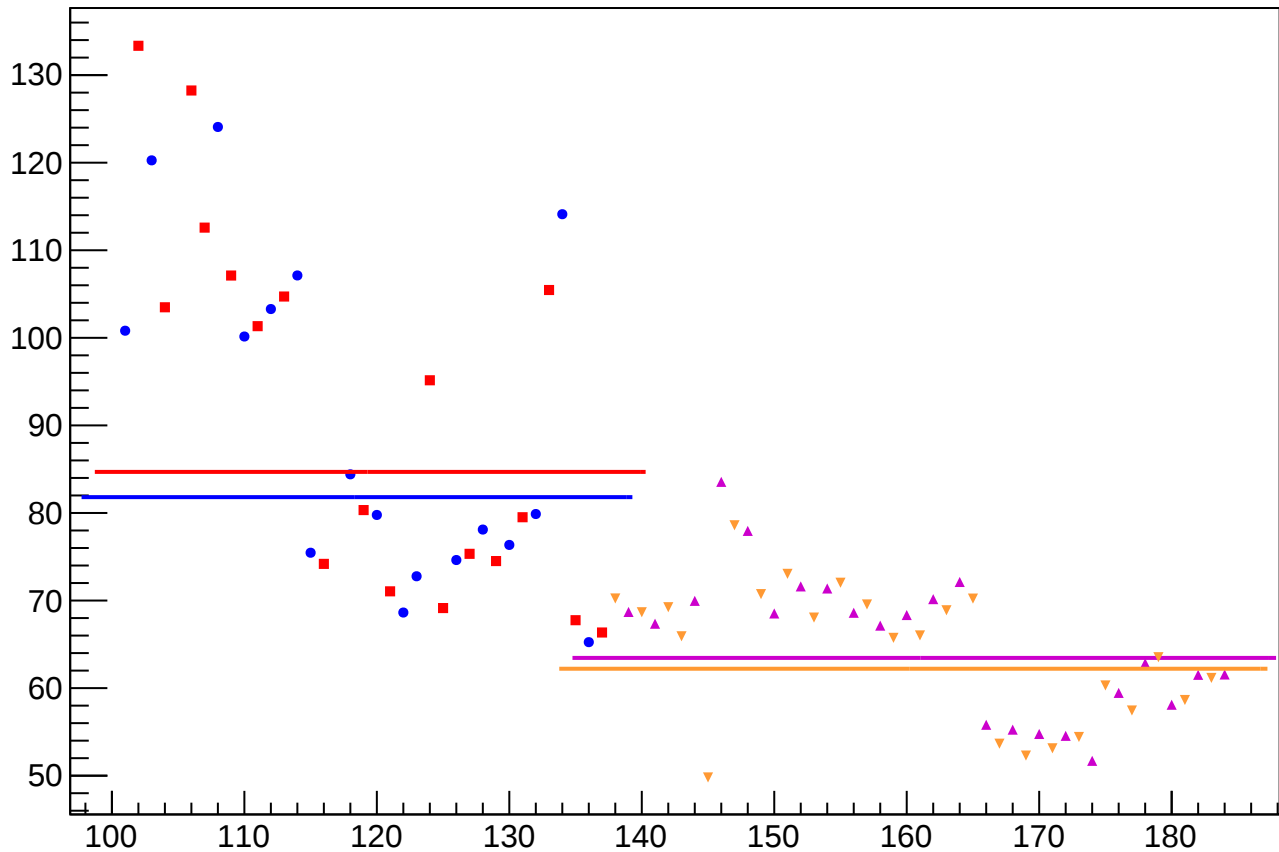
Left In:  $21.775 \pm 15.300$   $\chi^2/\text{NDF}$ : 22.1/22

+ sign  $-19.142 \pm 13.389$   $\chi^2/\text{NDF}$ : 51.6/40

All:  $-3.345 \pm 9.631$   $\chi^2/\text{NDF}$ : 91.1/81

- sign  $13.595 \pm 13.865$   $\chi^2/\text{NDF}$ : 36.6/40

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 62.213 $\pm$ 0.010  $\chi^2$ /NDF: 556789.0/23

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

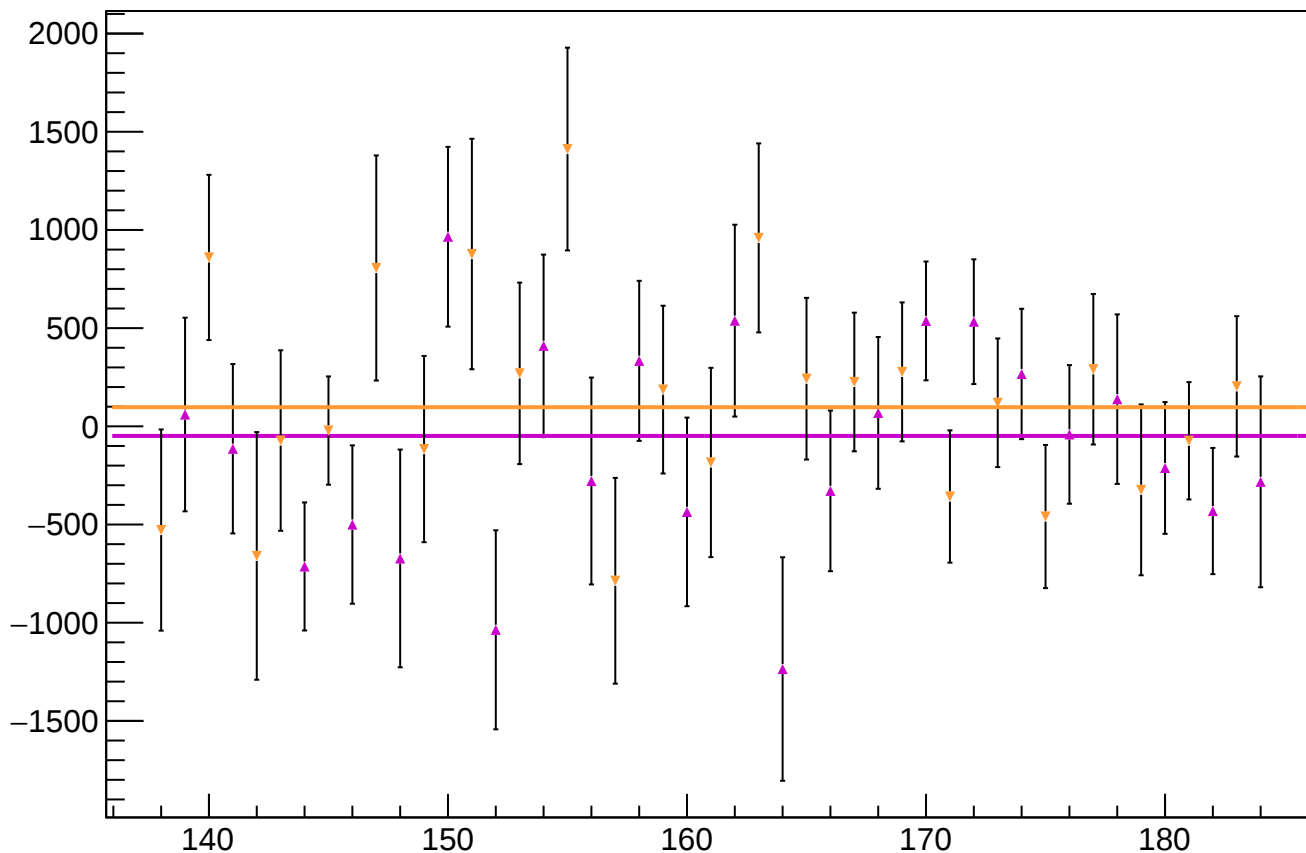
Left In: 63.450 $\pm$ 0.011  $\chi^2$ /NDF: 524286.3/22

+ sign 65.582 $\pm$ 0.009  $\chi^2$ /NDF: 1673937.7/40

All: 66.386 $\pm$ 0.007  $\chi^2$ /NDF: 3518294.2/81

- sign 67.248 $\pm$ 0.010  $\chi^2$ /NDF: 1829428.3/40

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



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

Left Out: 97.357 $\pm$ 82.998  $\chi^2$ /NDF:29.4/23

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

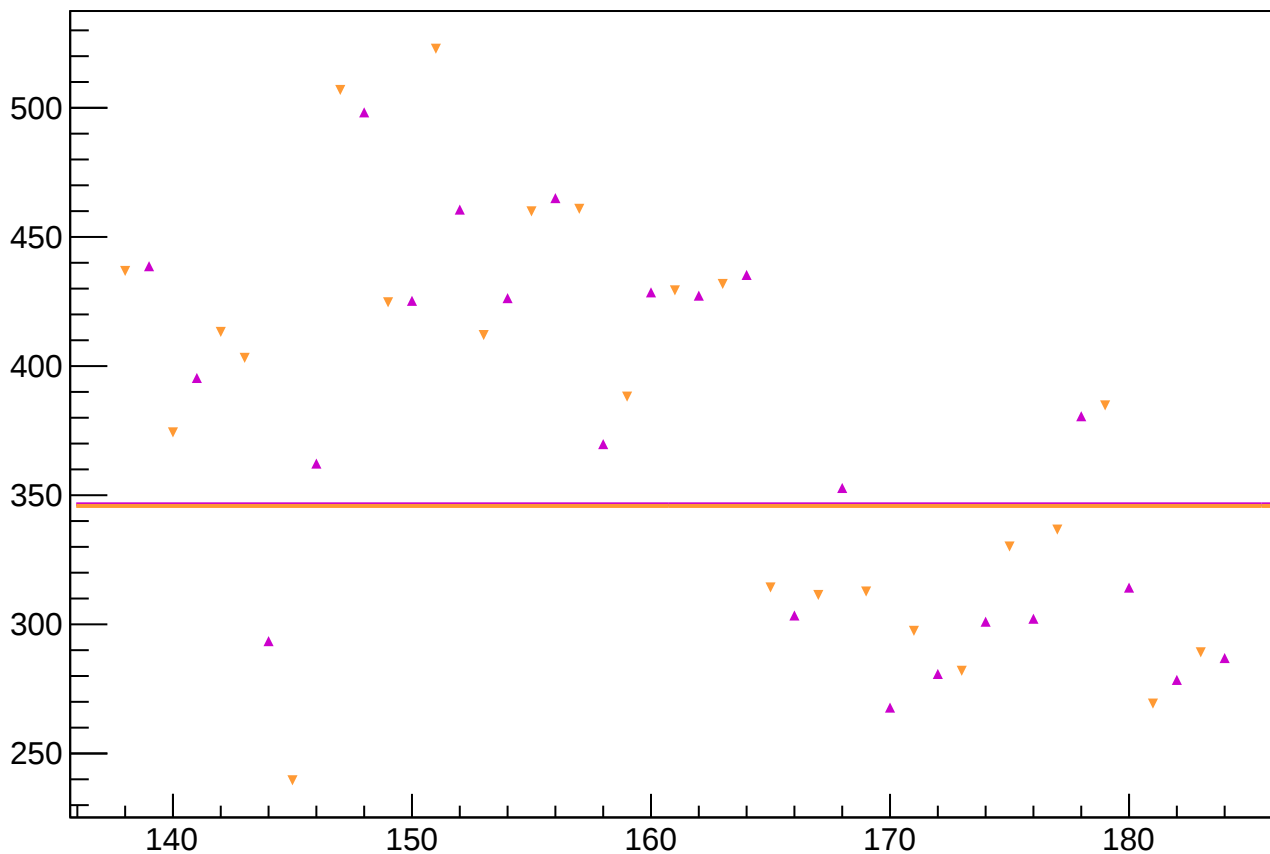
Left In: -48.861 $\pm$ 84.251  $\chi^2$ /NDF:34.5/22

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

All: 25.343 $\pm$ 59.126  $\chi^2$ /NDF: 65.5/46

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

# asym\_sam\_15\_26\_dd\_correction\_rms vs Slug



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

Left Out: 345.848+/-0.059  $\chi^2/\text{NDF}$ :1565232.9/23

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

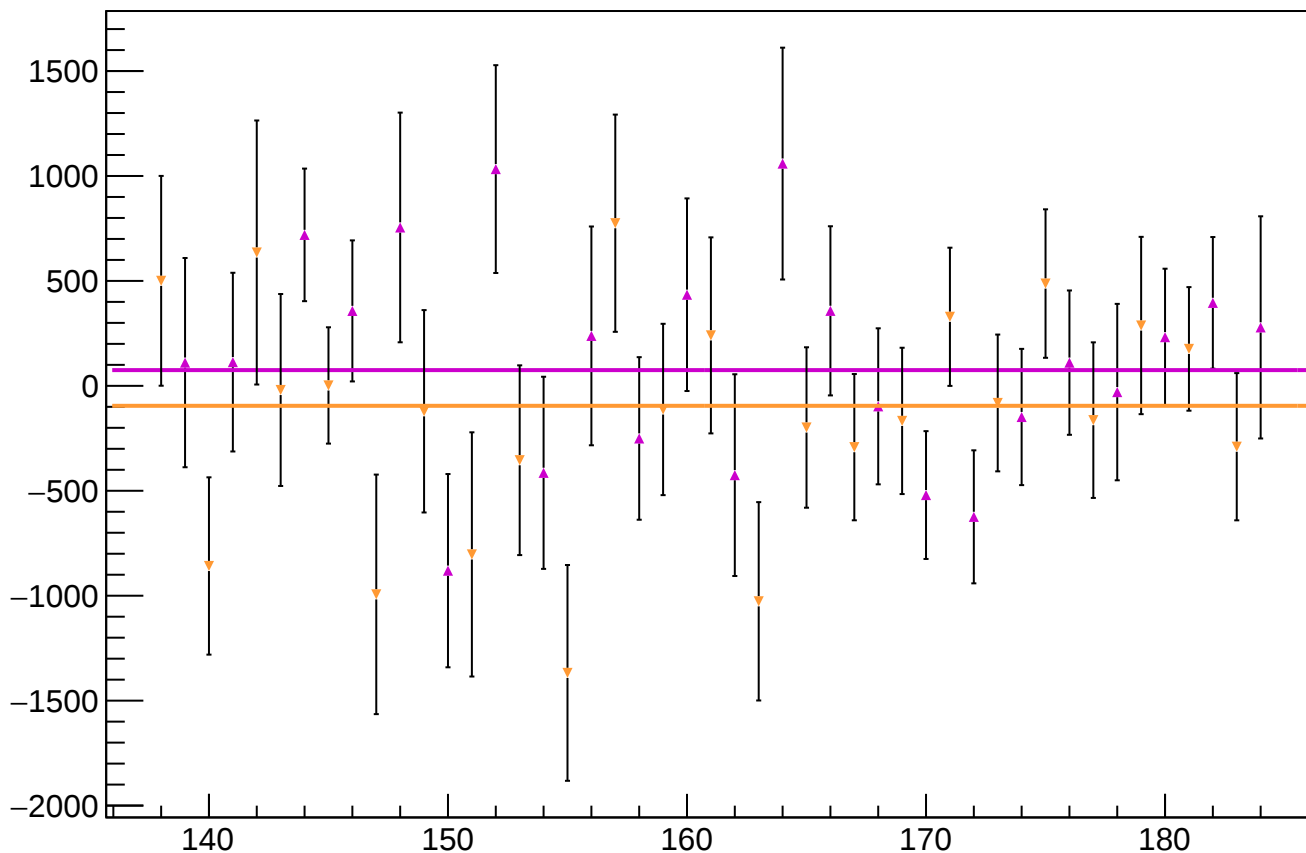
Left In: 346.466+/-0.060  $\chi^2/\text{NDF}$ :1248685.6/22

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

All: 346.152+/-0.042  $\chi^2/\text{NDF}$ : 2813973.0/46

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

# asym\_sam\_15\_26\_dd\_mean vs Slug



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

Left Out: -95.091+/-81.591  $\chi^2/\text{NDF}$ : 30.7/23

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

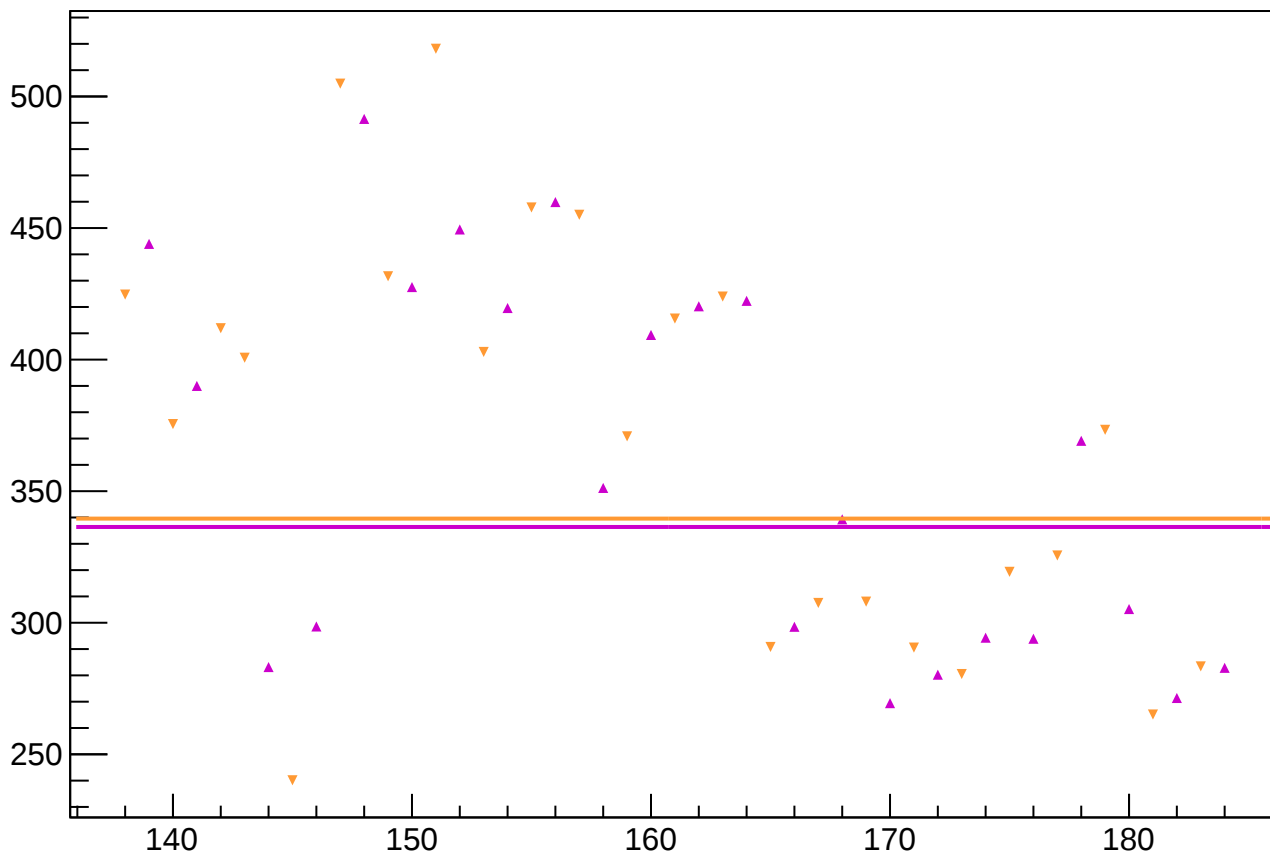
Left In: 74.986+/-81.949  $\chi^2/\text{NDF}$ : 32.7/22

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

All: -10.425+/-57.820  $\chi^2/\text{NDF}$ : 65.5/46

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

# asym\_sam\_15\_26\_dd\_rms vs Slug



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

Left Out: 339.578+/-0.058  $\chi^2/\text{NDF}$ :1571682.0/23

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

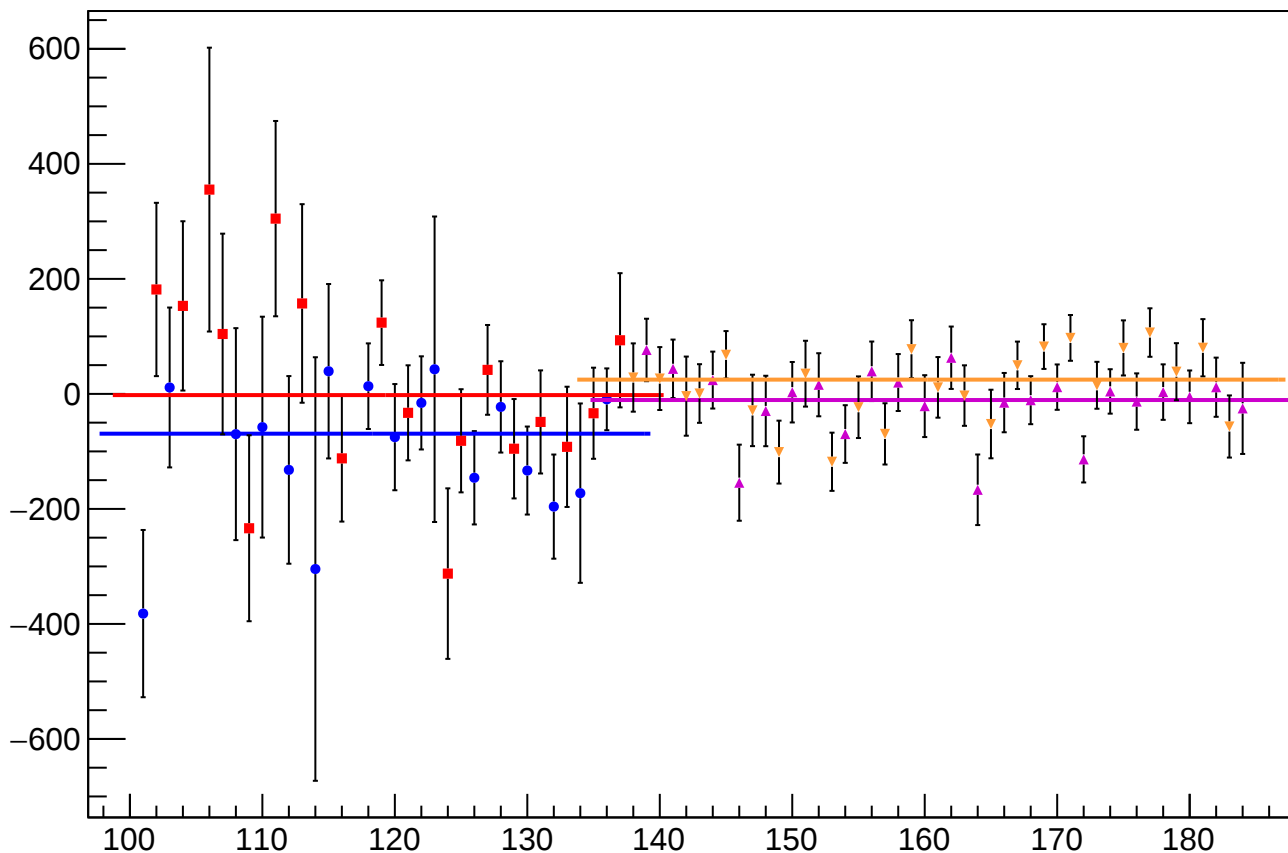
Left In: 336.396+/-0.058  $\chi^2/\text{NDF}$ :1269587.6/22

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

All: 337.994+/-0.041  $\chi^2/\text{NDF}$ : 2842784.5/46

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

# dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In:  $-69.188 \pm 24.260$   $\chi^2/\text{NDF}$ : 13.5/16

Left Out:  $24.814 \pm 10.091$   $\chi^2/\text{NDF}$ : 37.2/23

Right Out:  $-2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

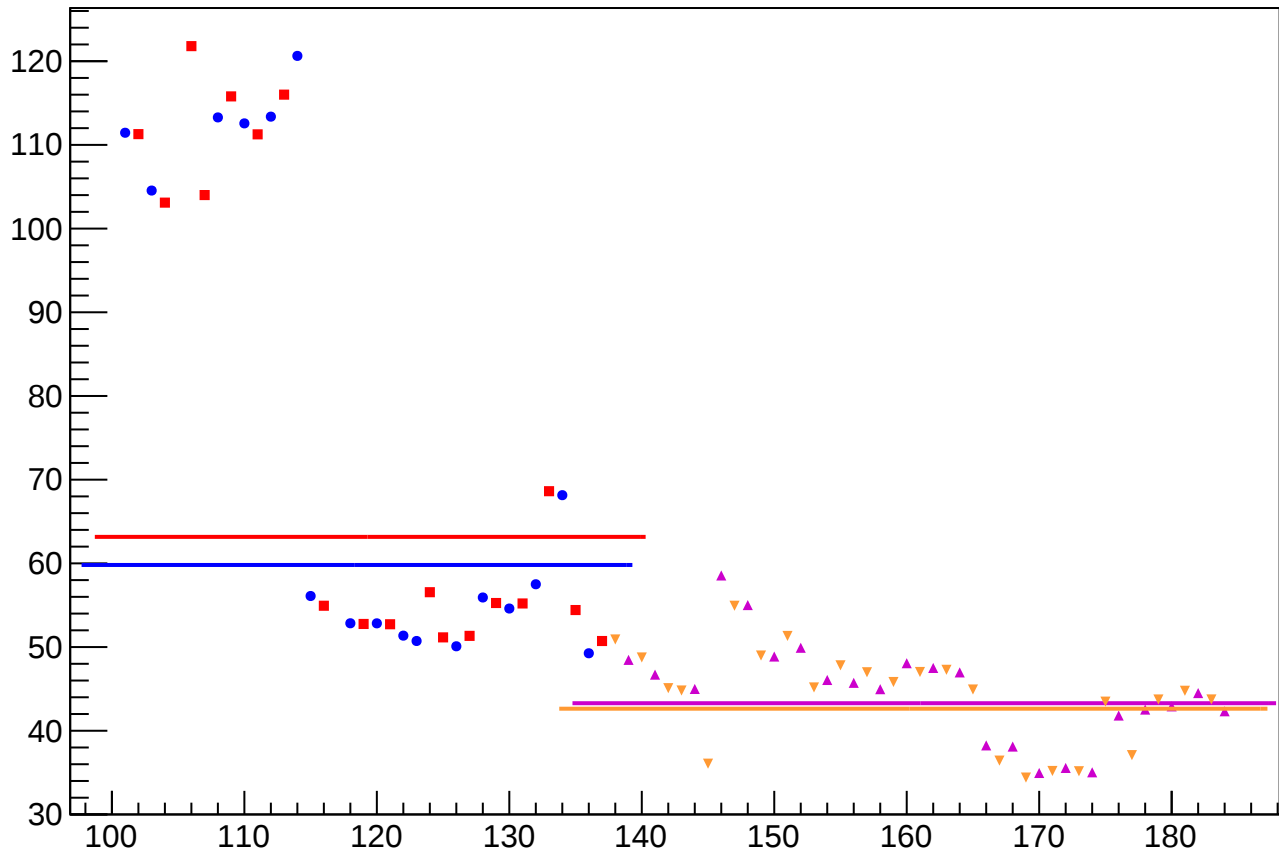
Left In:  $-10.652 \pm 10.428$   $\chi^2/\text{NDF}$ : 27.8/22

+ sign  $10.950 \pm 9.317$   $\chi^2/\text{NDF}$ : 63.5/40

All:  $1.117 \pm 6.698$   $\chi^2/\text{NDF}$ : 117.5/81

- sign  $-9.398 \pm 9.635$   $\chi^2/\text{NDF}$ : 51.7/40

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.809 $\pm$ 0.017  $\chi^2$ /NDF: 1229983.3/16

Left Out: 42.635 $\pm$ 0.007  $\chi^2$ /NDF: 662667.9/23

Right Out: 63.166 $\pm$ 0.018  $\chi^2$ /NDF: 1387305.6/17

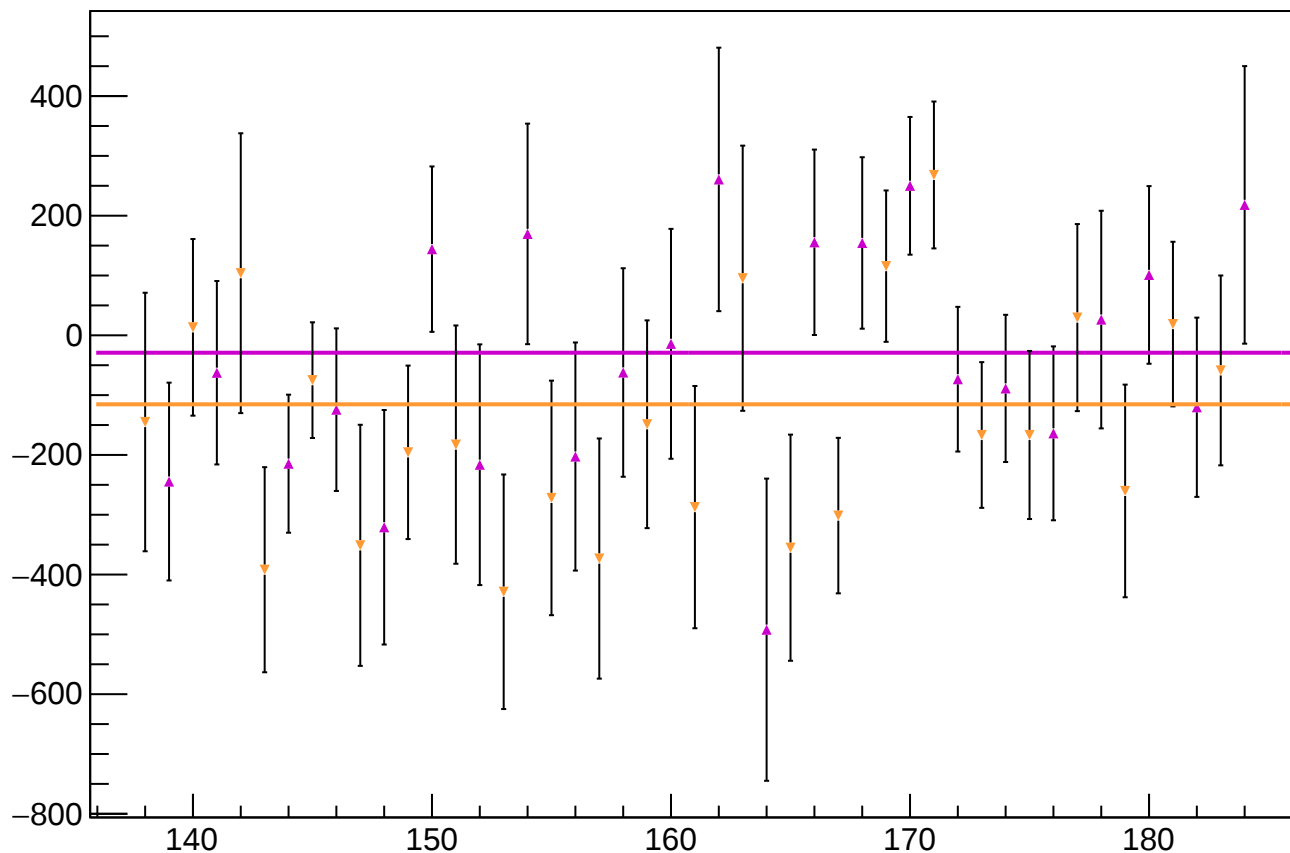
Left In: 43.291 $\pm$ 0.007  $\chi^2$ /NDF: 617612.6/22

+ sign 45.168 $\pm$ 0.007  $\chi^2$ /NDF: 2747089.9/40

All: 45.666 $\pm$ 0.005  $\chi^2$ /NDF: 5826973.3/81

- sign 46.199 $\pm$ 0.007  $\chi^2$ /NDF: 3068044.8/40

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



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

Left Out: -115.349 $\pm$ 31.984  $\chi^2$ /NDF:32.4/23

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

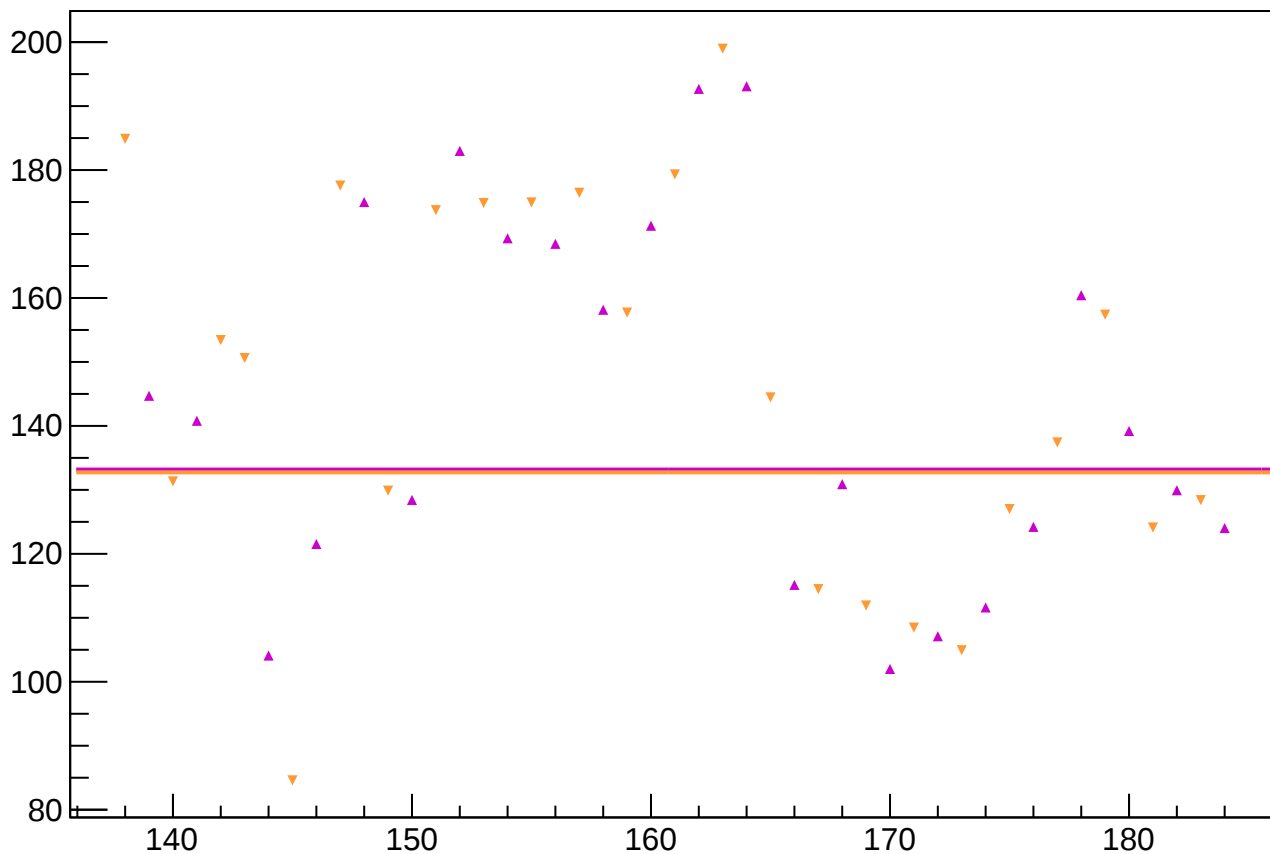
Left In: -29.116 $\pm$ 32.434  $\chi^2$ /NDF:29.1/22

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

All: -72.835 $\pm$ 22.774  $\chi^2$ /NDF: 65.1/46

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

# asym\_sam\_37\_26\_dd\_correction\_rms vs Slug



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

Left Out: 132.738+/-0.023  $\chi^2/\text{NDF}$ : 1775908.7/23

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

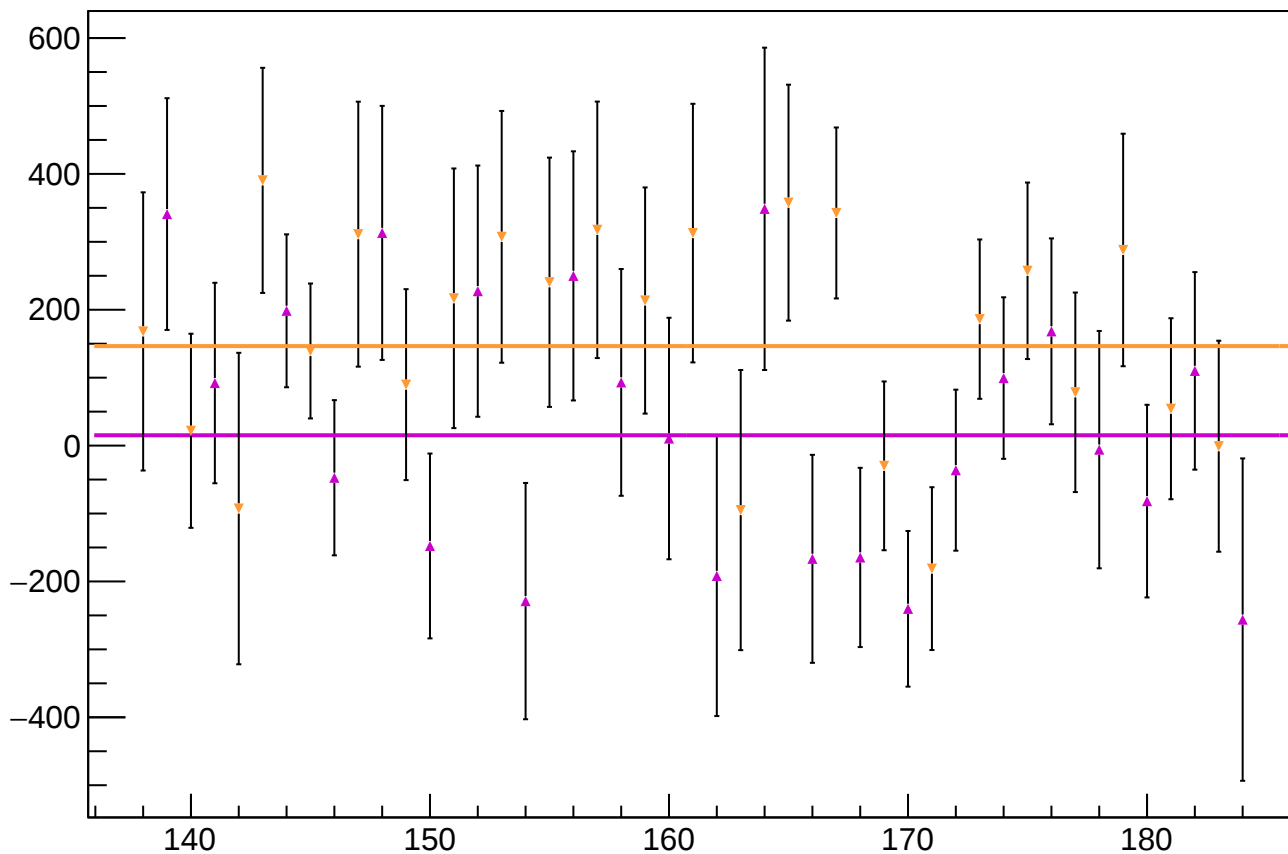
Left In: 133.174+/-0.023  $\chi^2/\text{NDF}$ : 1284125.1/22

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

All: 132.953+/-0.016  $\chi^2/\text{NDF}$ : 3060217.5/46

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

# asym\_sam\_37\_26\_dd\_mean vs Slug



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

Left Out: 146.476 $\pm$ 30.878  $\chi^2$ /NDF:25.7/23

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

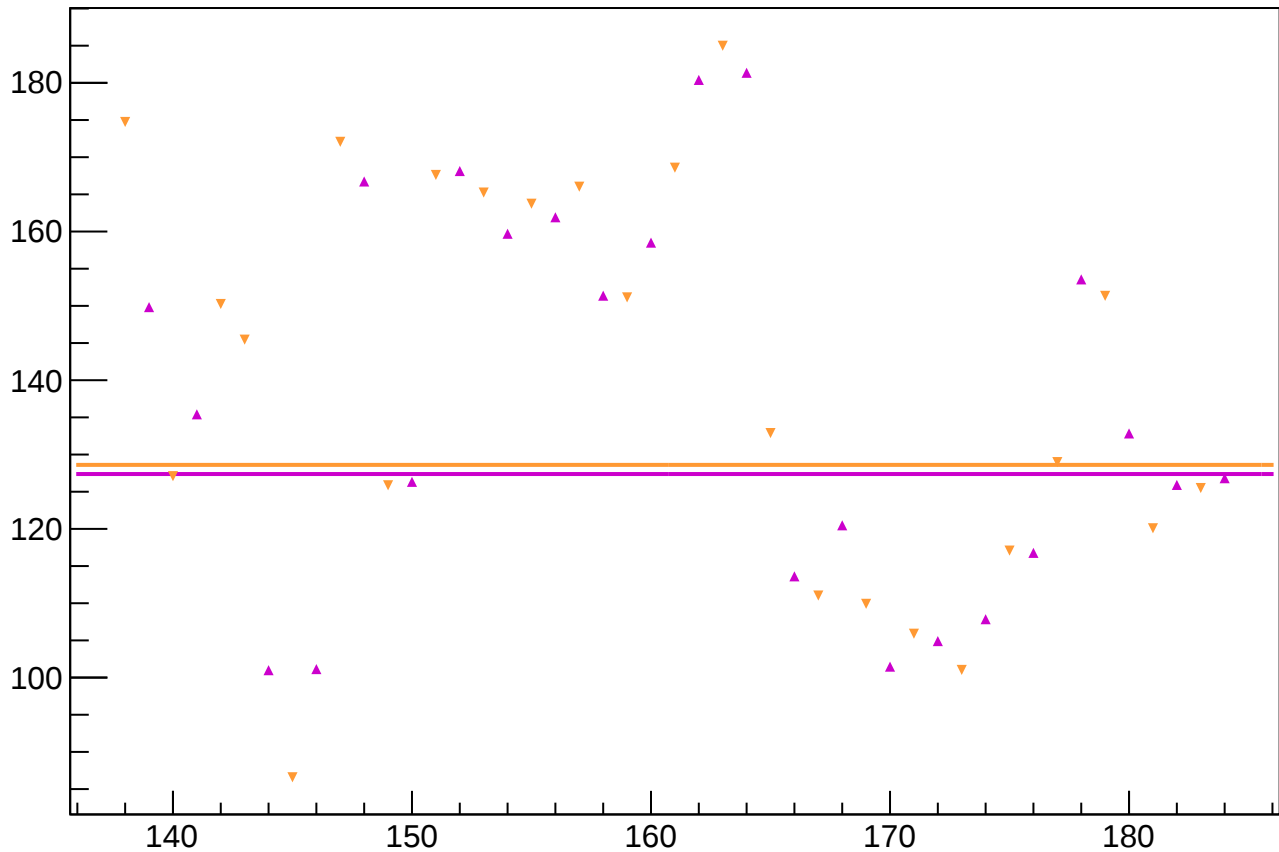
Left In: 15.199 $\pm$ 31.033  $\chi^2$ /NDF:31.4/22

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

All: 81.166 $\pm$ 21.889  $\chi^2$ /NDF: 66.0/46

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

# asym\_sam\_37\_26\_dd\_rms vs Slug



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

Left Out: 128.611 +/- 0.022  $\chi^2$ /NDF: 1513790.0/23

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

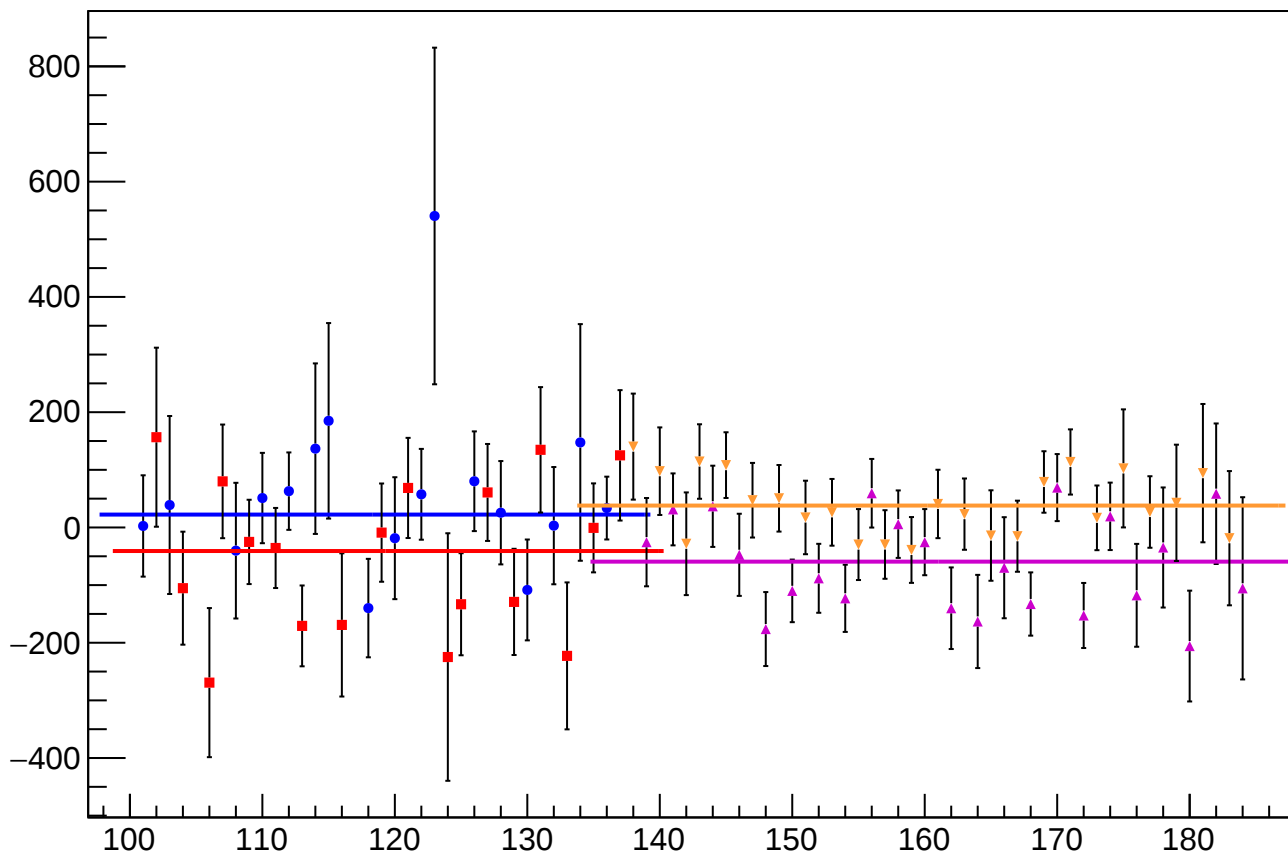
Left In: 127.380 +/- 0.022  $\chi^2$ /NDF: 1229899.0/22

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

All: 127.998 +/- 0.015  $\chi^2$ /NDF: 2745271.1/46

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

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 22.361 $\pm$ 22.625  $\chi^2$ /NDF: 12.6/16

Left Out: 38.002 $\pm$ 13.546  $\chi^2$ /NDF: 14.5/23

Right Out: -40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

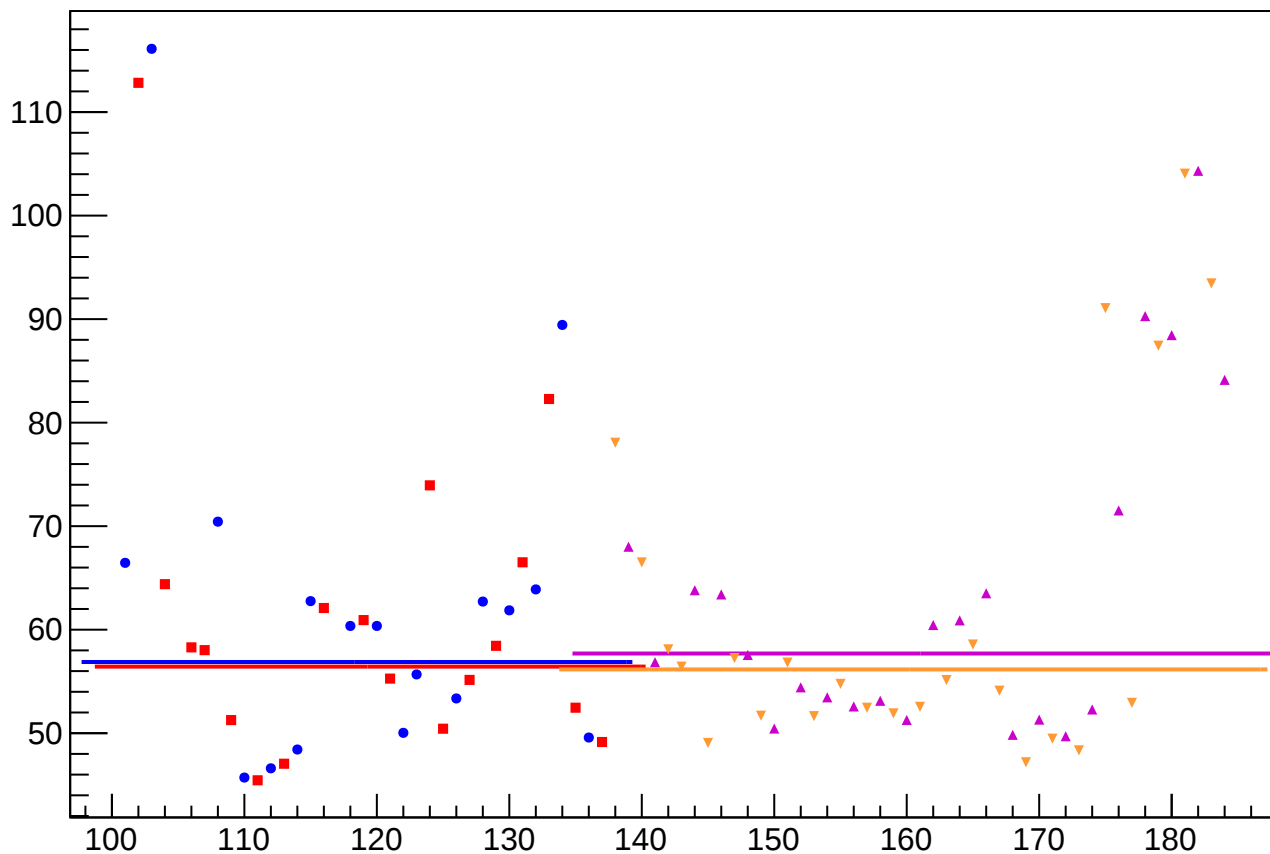
Left In: -59.288 $\pm$ 14.130  $\chi^2$ /NDF: 33.4/22

+ sign 33.874 $\pm$ 11.622  $\chi^2$ /NDF: 27.5/40

All: -8.966 $\pm$ 8.318  $\chi^2$ /NDF: 113.4/81

- sign -53.955 $\pm$ 11.910  $\chi^2$ /NDF: 58.1/40

dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 56.879 $\pm$ 0.016  $\chi^2$ /NDF: 575487.1/16

Left Out: 56.160 $\pm$ 0.010  $\chi^2$ /NDF:1316070.1/23

Right Out: 56.434 $\pm$ 0.016  $\chi^2$ /NDF: 520456.9/17

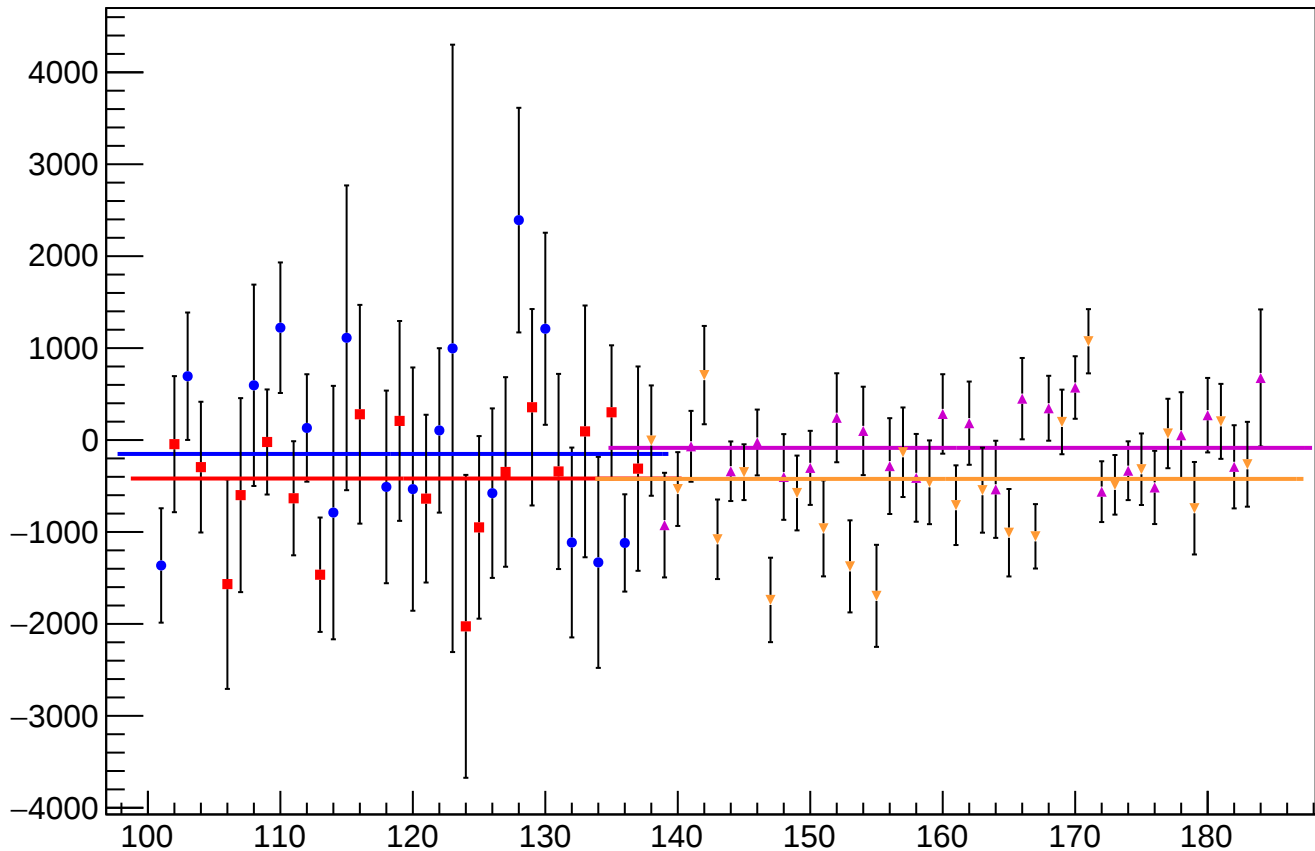
Left In: 57.698 $\pm$ 0.010  $\chi^2$ /NDF:1102960.9/22

+ sign 56.350 $\pm$ 0.008  $\chi^2$ /NDF: 1893041.0/40

All: 56.829 $\pm$ 0.006  $\chi^2$ /NDF: 3528062.9/81

- sign 57.332 $\pm$ 0.008  $\chi^2$ /NDF: 1628053.3/40

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: -151.194 $\pm$ 212.448  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -422.670 $\pm$ 85.734  $\chi^2/\text{NDF}$ : 57.4/23

Right Out: -418.554 $\pm$ 205.061  $\chi^2/\text{NDF}$ : 8.4/17

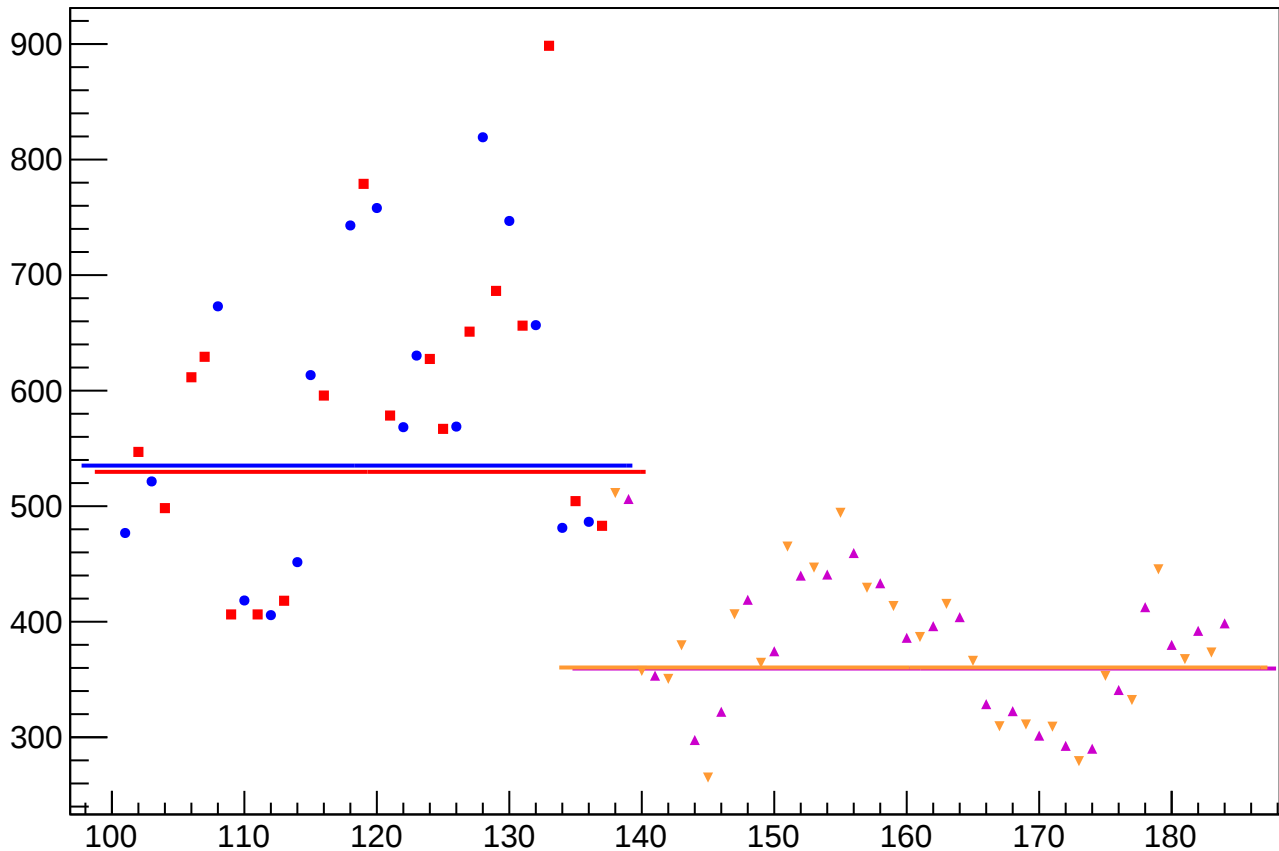
Left In: -85.183 $\pm$ 86.793  $\chi^2/\text{NDF}$ : 19.2/22

+ sign -384.650 $\pm$ 79.505  $\chi^2/\text{NDF}$ : 81.2/40

All: -260.902 $\pm$ 56.367  $\chi^2/\text{NDF}$ : 116.0/81

- sign -135.831 $\pm$ 79.928  $\chi^2/\text{NDF}$ : 29.9/40

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In:  $535.137 \pm 0.150$   $\chi^2/\text{NDF}$ : 596084.8/16

Left Out:  $360.380 \pm 0.061$   $\chi^2/\text{NDF}$ : 1029078.6/23

Right Out:  $529.720 \pm 0.145$   $\chi^2/\text{NDF}$ : 646725.7/17

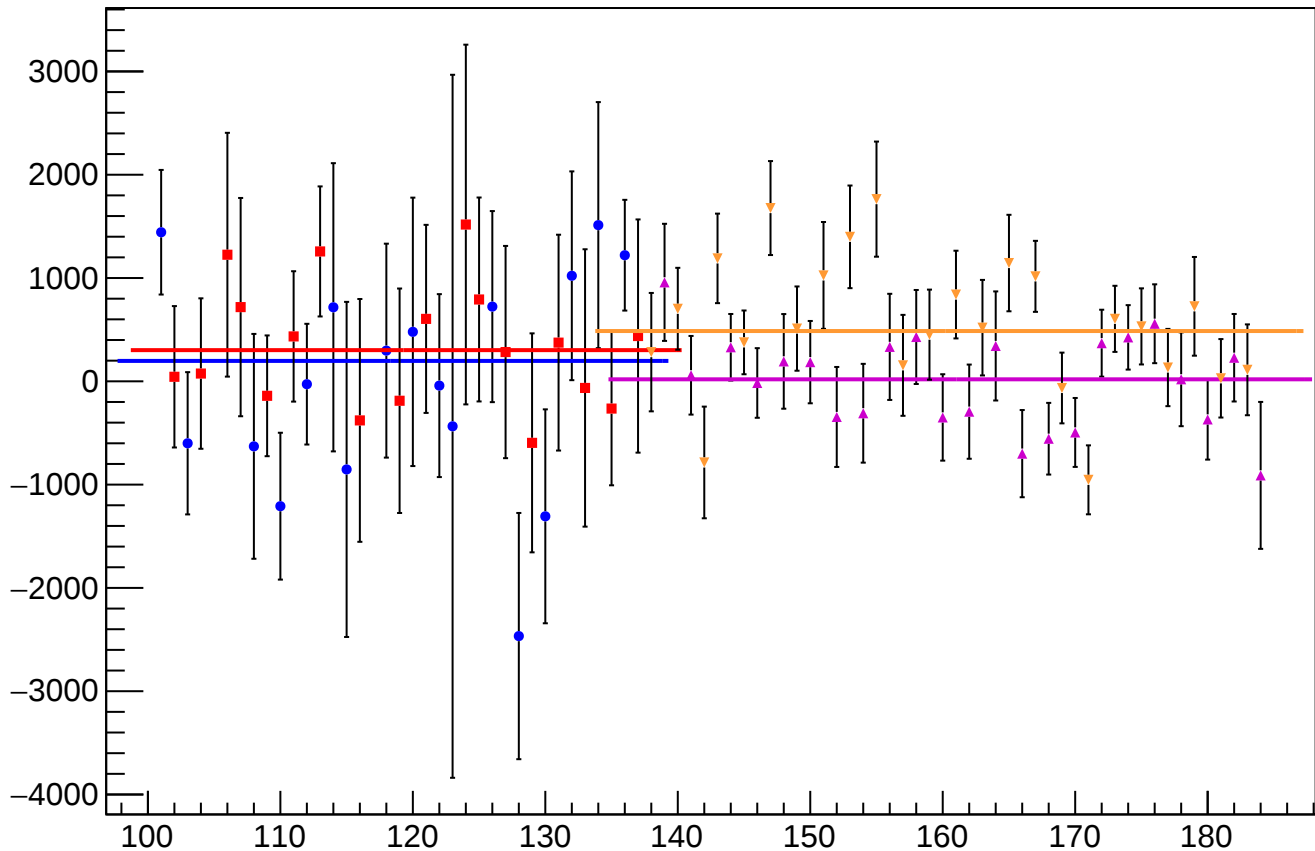
Left In:  $359.485 \pm 0.061$   $\chi^2/\text{NDF}$ : 849465.2/22

+ sign  $384.854 \pm 0.056$   $\chi^2/\text{NDF}$ : 2788943.4/40

All:  $385.100 \pm 0.040$   $\chi^2/\text{NDF}$ : 5454120.0/81

- sign  $385.348 \pm 0.057$   $\chi^2/\text{NDF}$ : 2665138.3/40

# asym\_sam\_1357\_avg\_mean vs Slug



Right In: 197.561 $\pm$ 211.480  $\chi^2$ /NDF: 23.9/16

Left Out: 486.787 $\pm$ 84.065  $\chi^2$ /NDF:55.5/23

Right Out: 301.856 $\pm$ 205.700  $\chi^2$ /NDF: 6.7/17

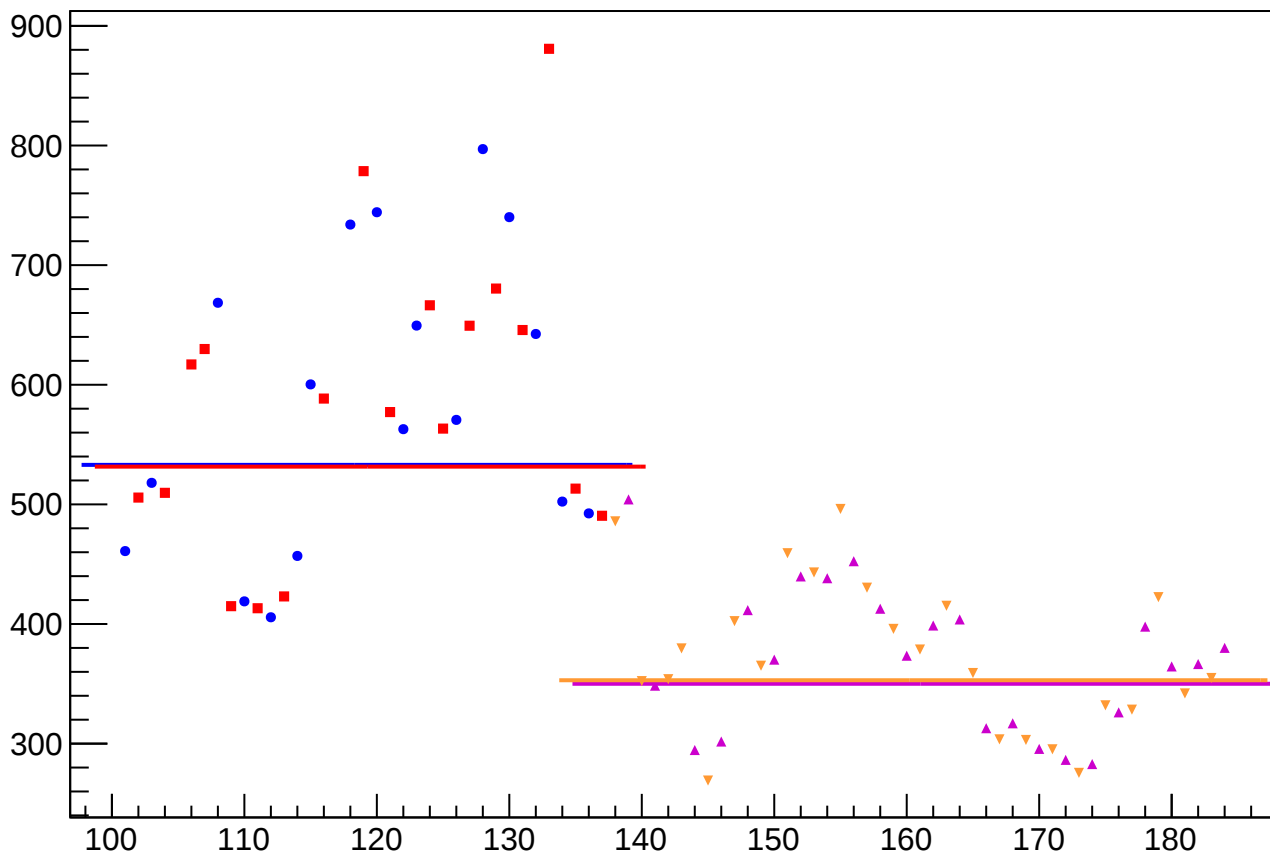
Left In: 19.328 $\pm$ 84.679  $\chi^2$ /NDF:23.7/22

+ sign 447.322 $\pm$ 78.119  $\chi^2$ /NDF: 81.0/40

All: 254.252 $\pm$ 55.304  $\chi^2$ /NDF: 125.3/81

- sign 60.269 $\pm$ 78.304  $\chi^2$ /NDF: 32.0/40

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 533.031+/-0.150  $\chi^2/\text{NDF}$ : 566851.1/16

Left Out: 352.983+/-0.059  $\chi^2/\text{NDF}$ : 1003504.1/23

Right Out: 531.559+/-0.145  $\chi^2/\text{NDF}$ : 597920.9/17

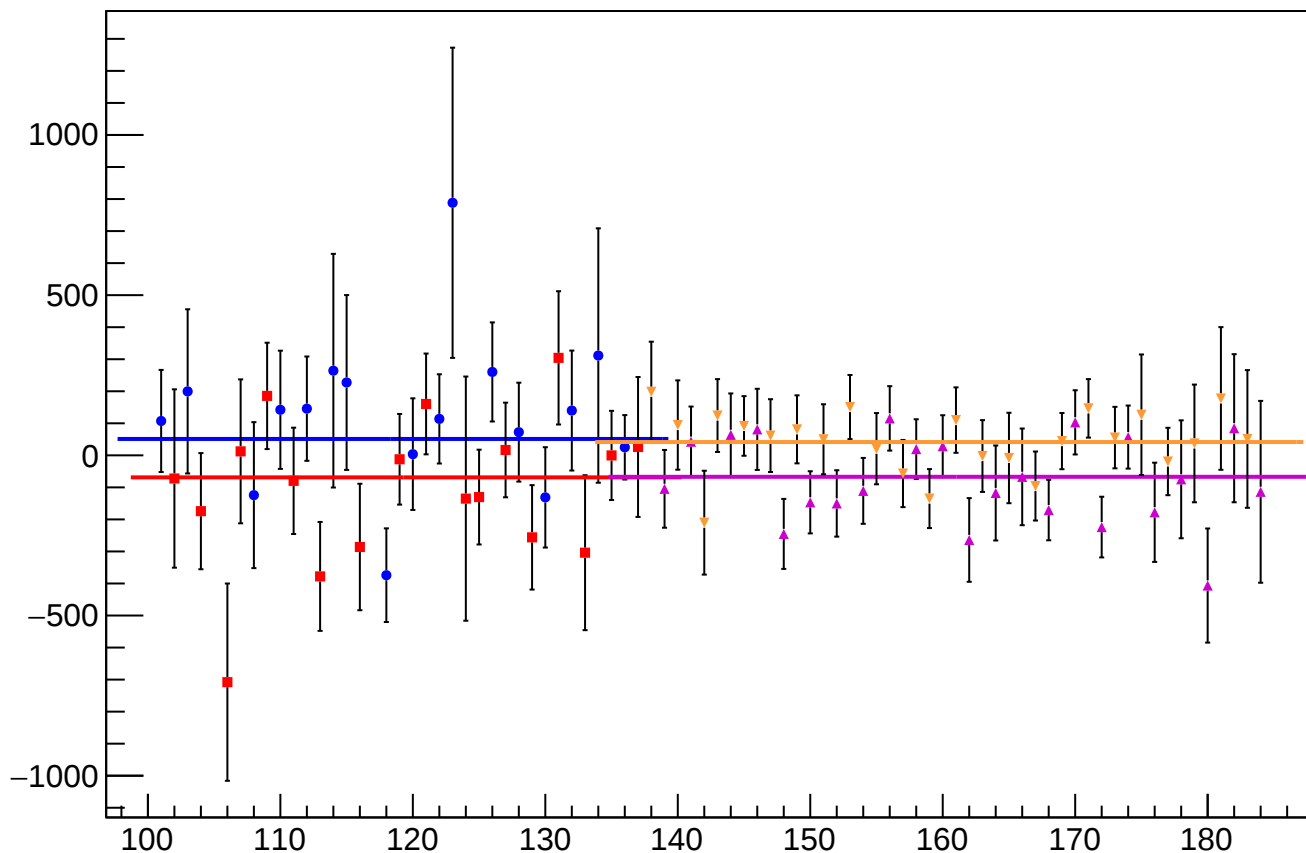
Left In: 350.037+/-0.060  $\chi^2/\text{NDF}$ : 889435.7/22

+ sign 377.551+/-0.055  $\chi^2/\text{NDF}$ : 2822223.0/40

All: 376.947+/-0.039  $\chi^2/\text{NDF}$ : 5641600.4/81

- sign 376.341+/-0.055  $\chi^2/\text{NDF}$ : 2819138.3/40

# dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 41.526 $\pm$ 23.418  $\chi^2$ /NDF: 15.0/23

Right Out: -68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

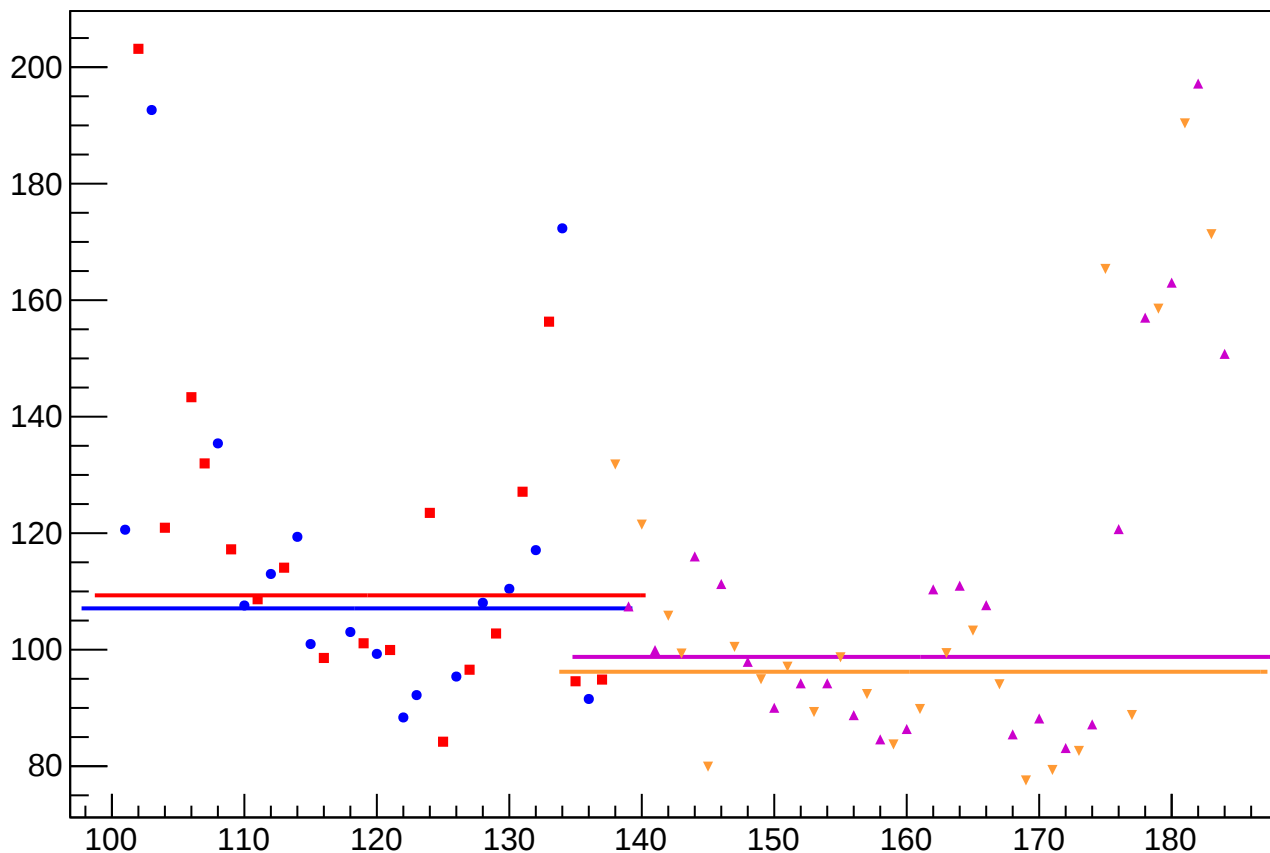
Left In: -67.000 $\pm$ 24.395  $\chi^2$ /NDF: 28.2/22

+ sign 43.778 $\pm$ 20.501  $\chi^2$ /NDF: 32.4/40

All: -9.980 $\pm$ 14.736  $\chi^2$ /NDF: 95.2/81

- sign -67.436 $\pm$ 21.195  $\chi^2$ /NDF: 48.6/40

# dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 96.213 $\pm$ 0.017  $\chi^2$ /NDF:1618259.5/23

Right Out: 109.329 $\pm$ 0.030  $\chi^2$ /NDF: 506023.6/17

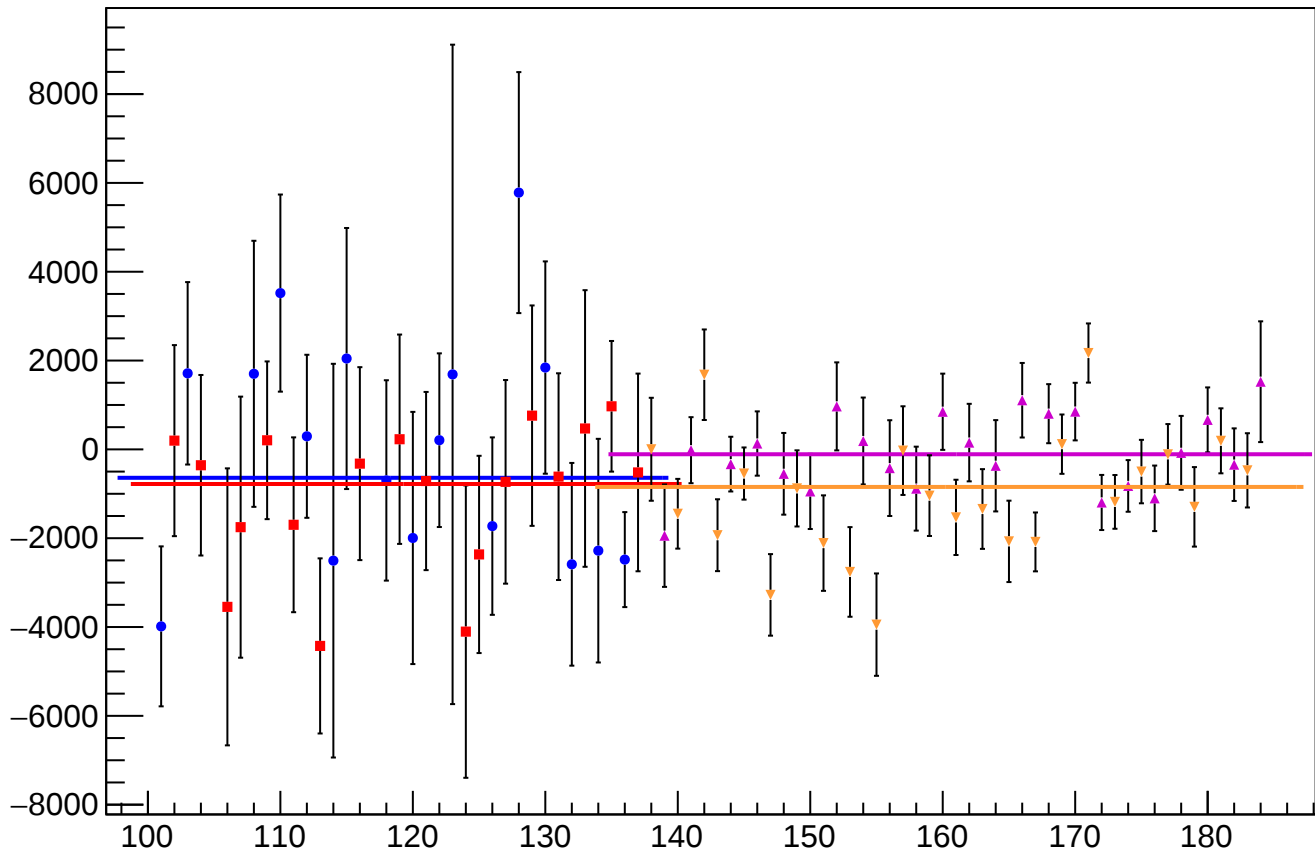
Left In: 98.763 $\pm$ 0.017  $\chi^2$ /NDF:1299339.3/22

+ sign 98.755 $\pm$ 0.014  $\chi^2$ /NDF: 2156871.0/40

All: 100.011 $\pm$ 0.010  $\chi^2$ /NDF: 4069755.6/81

- sign 101.354 $\pm$ 0.015  $\chi^2$ /NDF: 1897351.5/40

# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In: -639.847+/-519.248  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: -845.643+/-164.170  $\chi^2/\text{NDF}$ : 62.3/23

Right Out: -779.450+/-516.450  $\chi^2/\text{NDF}$ : 8.8/17

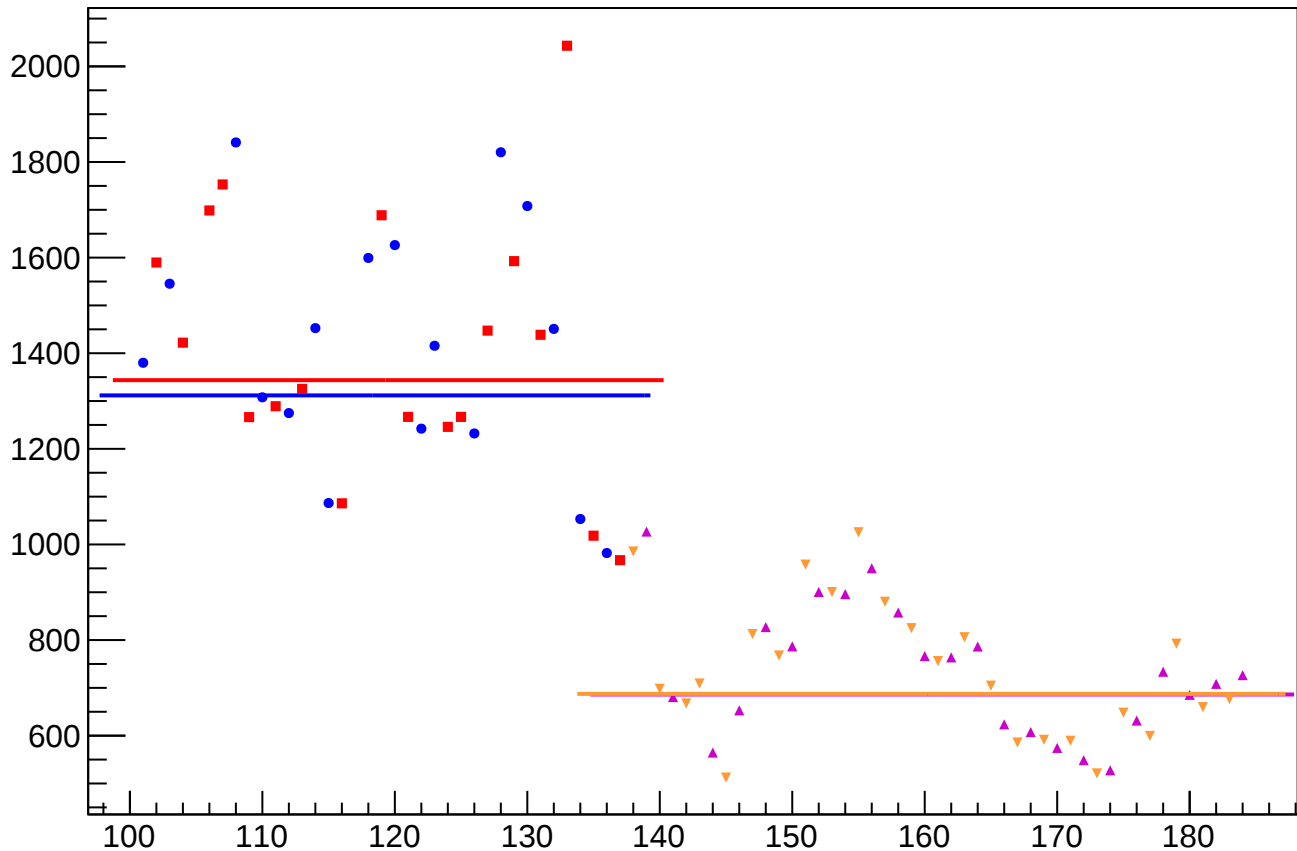
Left In: -109.724+/-166.318  $\chi^2/\text{NDF}$ : 22.6/22

+ sign -826.941+/-156.533  $\chi^2/\text{NDF}$ : 84.2/40

All: -503.494+/-111.309  $\chi^2/\text{NDF}$ : 125.8/81

- sign -172.655+/-158.311  $\chi^2/\text{NDF}$ : 33.0/40

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1311.795+/-0.367  $\chi^2/\text{NDF}$ : 512676.0/16

Left Out: 687.404+/-0.116  $\chi^2/\text{NDF}$ : 1277077.8/23

Right Out: 1343.659+/-0.365  $\chi^2/\text{NDF}$ : 461009.9/17

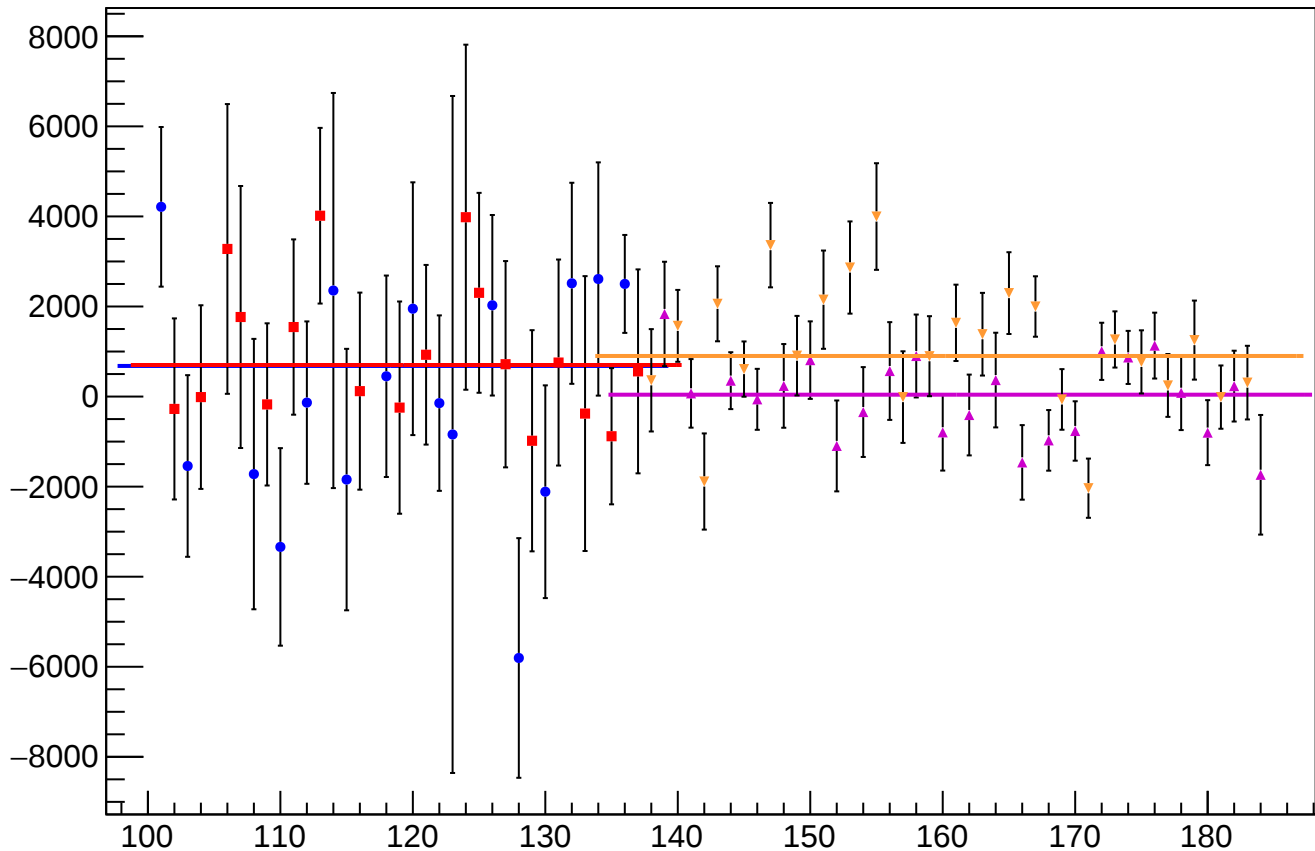
Left In: 686.116+/-0.118  $\chi^2/\text{NDF}$ : 1122124.7/22

+ sign 744.147+/-0.111  $\chi^2/\text{NDF}$ : 4418908.4/40

All: 746.004+/-0.079  $\chi^2/\text{NDF}$ : 8940030.4/81

- sign 747.902+/-0.112  $\chi^2/\text{NDF}$ : 4520553.0/40

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 679.925 $\pm$ 517.508  $\chi^2$ /NDF: 22.6/16

Left Out: 901.336 $\pm$ 165.548  $\chi^2$ /NDF:61.1/23

Right Out: 700.930 $\pm$ 517.319  $\chi^2$ /NDF: 7.6/17

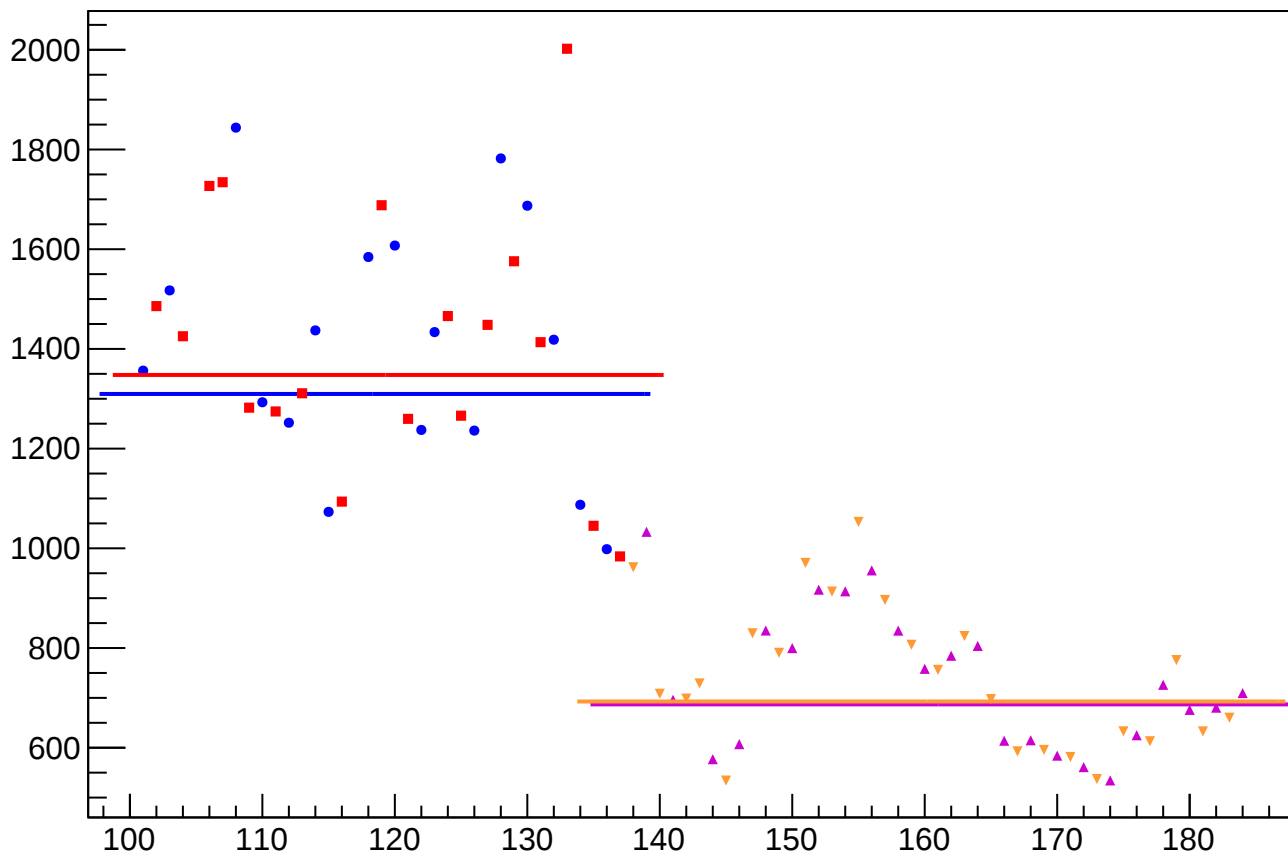
Left In: 41.522 $\pm$ 166.728  $\chi^2$ /NDF:24.1/22

+ sign 880.782 $\pm$ 157.677  $\chi^2$ /NDF: 83.9/40

All: 494.665 $\pm$ 111.851  $\chi^2$ /NDF: 129.1/81

- sign 103.571 $\pm$ 158.689  $\chi^2$ /NDF: 33.2/40

# asym\_sam\_2468\_avg\_rms vs Slug



Right In:  $1309.654 \pm 0.366$   $\chi^2/\text{NDF}$ : 459314.8/16

Left Out:  $692.752 \pm 0.117$   $\chi^2/\text{NDF}$ : 1234649.1/23

Right Out:  $1347.768 \pm 0.366$   $\chi^2/\text{NDF}$ : 405345.0/17

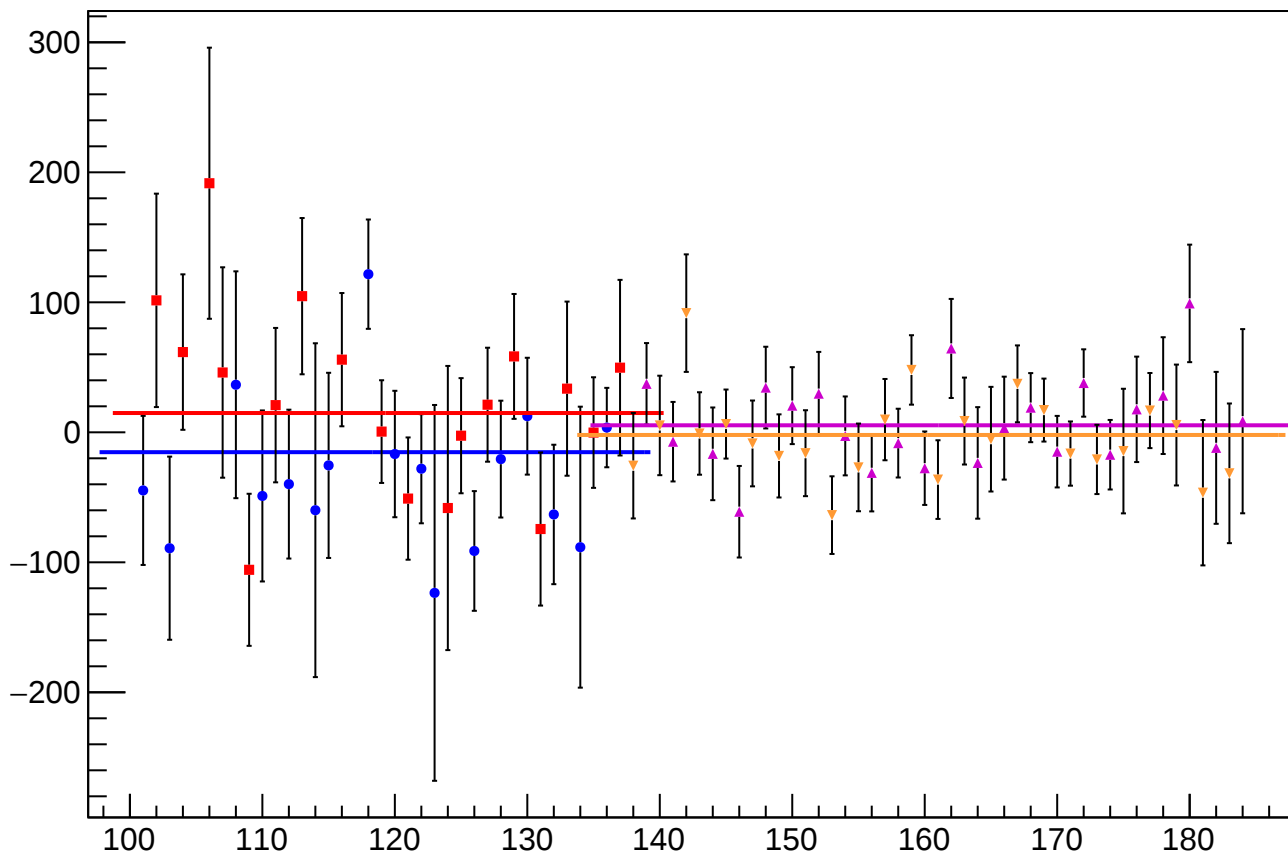
Left In:  $686.944 \pm 0.118$   $\chi^2/\text{NDF}$ : 1116042.4/22

+ sign  $750.021 \pm 0.111$   $\chi^2/\text{NDF}$ : 4272157.0/40

All:  $749.576 \pm 0.079$   $\chi^2/\text{NDF}$ : 8749991.5/81

- sign  $749.126 \pm 0.112$   $\chi^2/\text{NDF}$ : 4477802.4/40

# dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-15.281 \pm 12.907$   $\chi^2/\text{NDF}$ : 18.3/16

Left Out:  $-2.044 \pm 6.638$   $\chi^2/\text{NDF}$ : 19.8/23

Right Out:  $14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

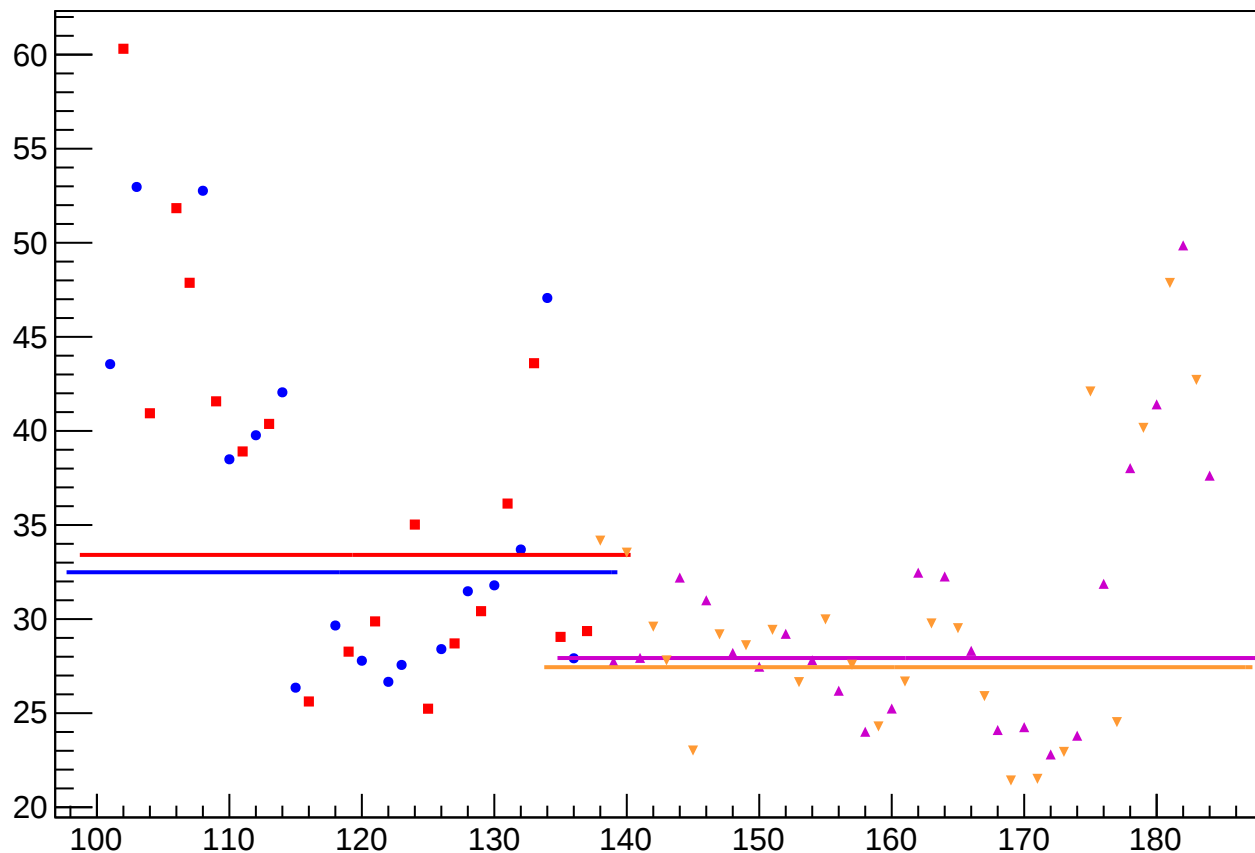
Left In:  $5.397 \pm 6.854$   $\chi^2/\text{NDF}$ : 20.8/22

+ sign  $-4.813 \pm 5.903$   $\chi^2/\text{NDF}$ : 38.9/40

All:  $1.134 \pm 4.233$   $\chi^2/\text{NDF}$ : 80.4/81

- sign  $7.427 \pm 6.073$   $\chi^2/\text{NDF}$ : 39.4/40

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.489+/-0.009  $\chi^2/\text{NDF}$ : 594480.9/16

Left Out: 27.444+/-0.005  $\chi^2/\text{NDF}$ : 1325331.9/23

Right Out: 33.411+/-0.009  $\chi^2/\text{NDF}$ : 725189.8/17

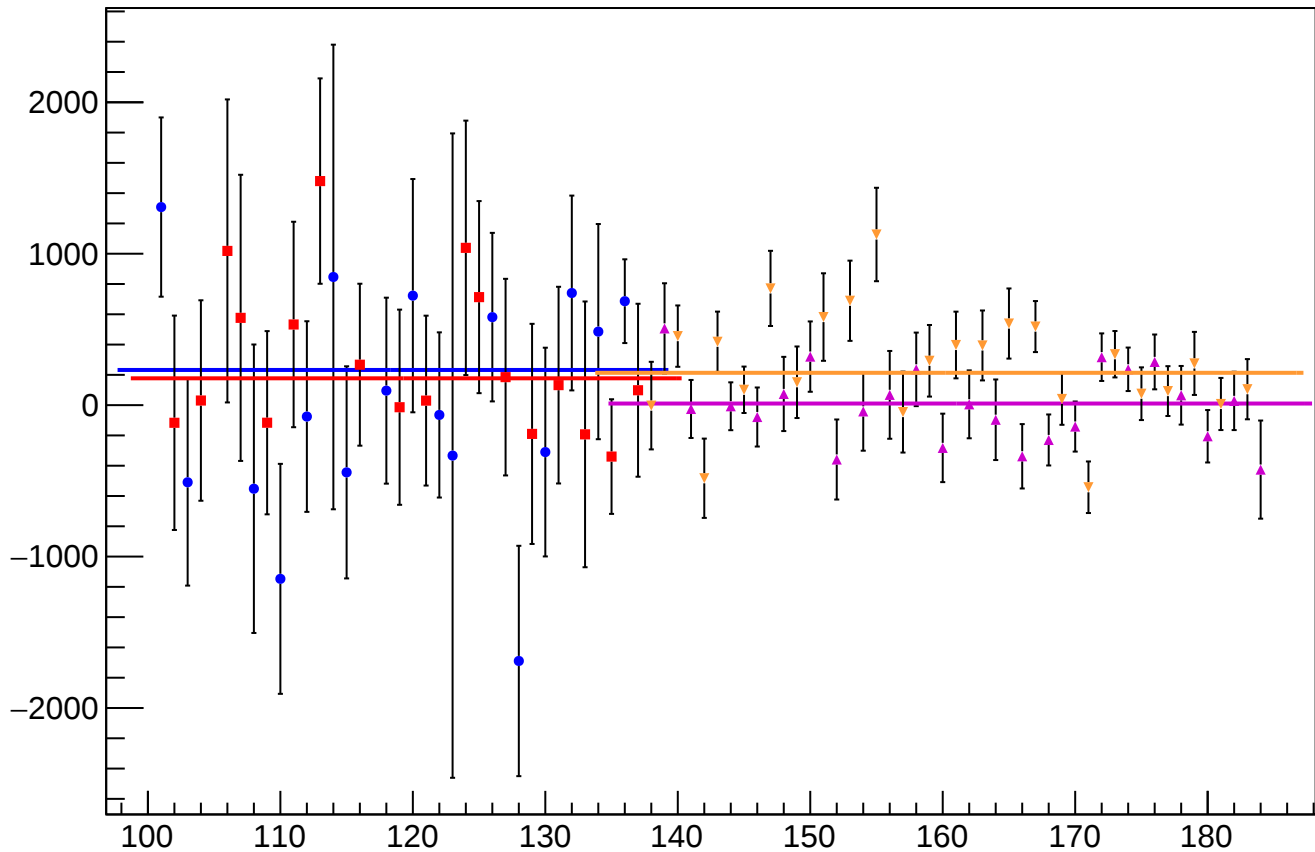
Left In: 27.930+/-0.005  $\chi^2/\text{NDF}$ : 985659.8/22

+ sign 28.499+/-0.004  $\chi^2/\text{NDF}$ : 2161483.9/40

All: 28.795+/-0.003  $\chi^2/\text{NDF}$ : 4157618.2/81

- sign 29.109+/-0.004  $\chi^2/\text{NDF}$ : 1985779.1/40

# asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In:  $232.332 \pm 148.607$   $\chi^2/\text{NDF}$ : 21.5/16

Left Out:  $213.564 \pm 41.586$   $\chi^2/\text{NDF}$ : 61.3/23

Right Out:  $177.151 \pm 150.003$   $\chi^2/\text{NDF}$ : 9.6/17

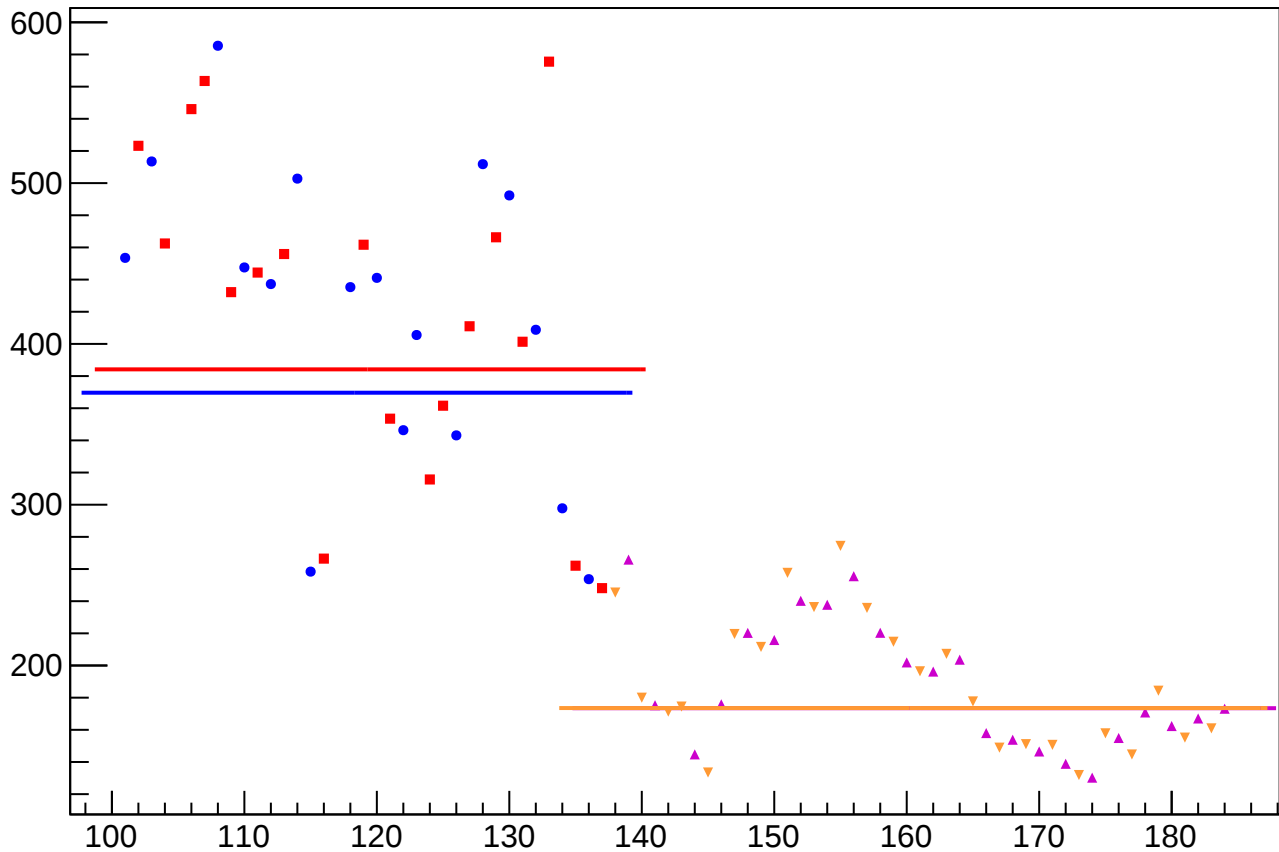
Left In:  $10.639 \pm 42.196$   $\chi^2/\text{NDF}$ : 27.2/22

+ sign  $214.927 \pm 40.048$   $\chi^2/\text{NDF}$ : 82.8/40

All:  $120.250 \pm 28.518$   $\chi^2/\text{NDF}$ : 132.1/81

- sign  $22.849 \pm 40.620$   $\chi^2/\text{NDF}$ : 37.9/40

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 369.650 +/- 0.105  $\chi^2/\text{NDF}$ : 902775.2/16

Left Out: 173.538 +/- 0.029  $\chi^2/\text{NDF}$ : 1488115.2/23

Right Out: 384.171 +/- 0.106  $\chi^2/\text{NDF}$ : 874993.4/17

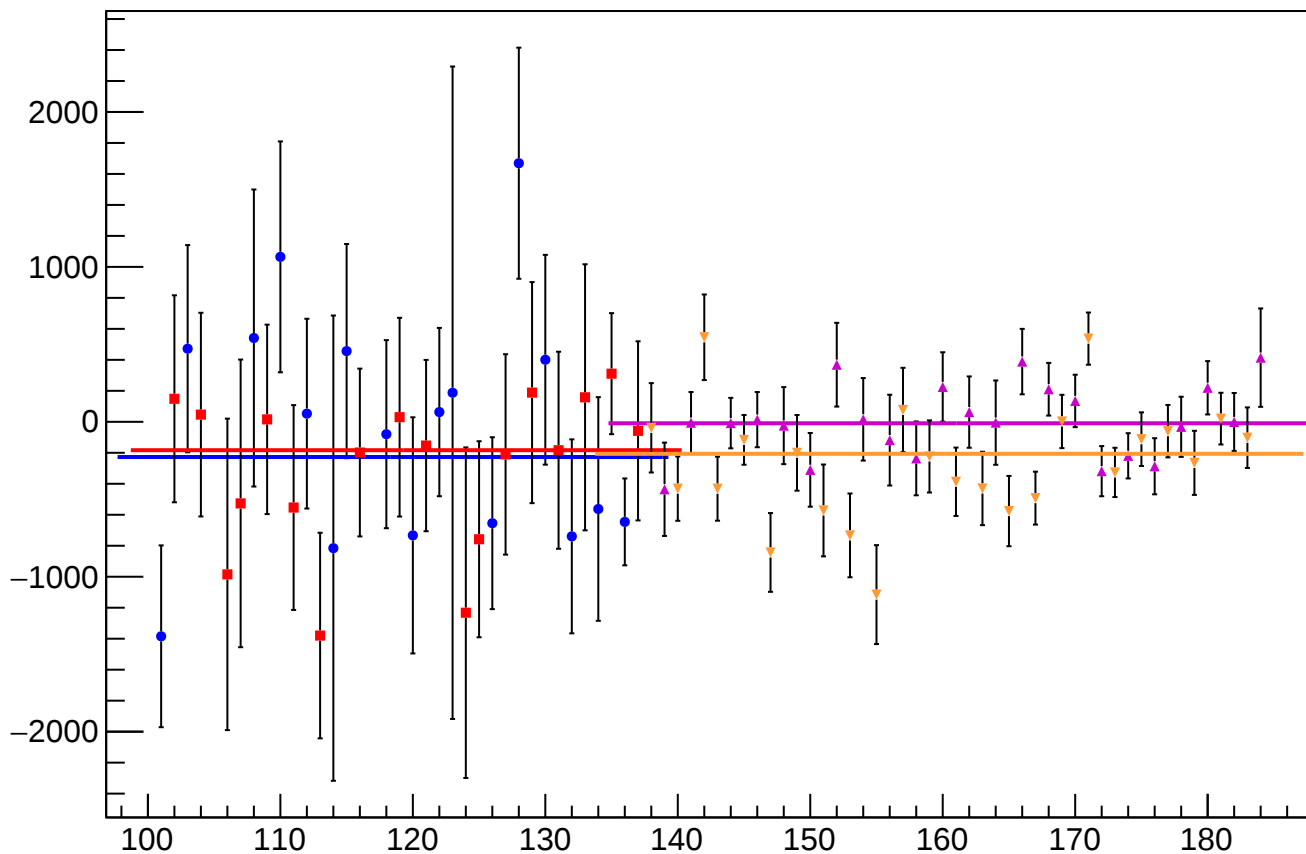
Left In: 173.445 +/- 0.030  $\chi^2/\text{NDF}$ : 1362240.7/22

+ sign 187.780 +/- 0.028  $\chi^2/\text{NDF}$ : 5620975.7/40

All: 188.331 +/- 0.020  $\chi^2/\text{NDF}$ : 11516541.9/83

- sign 188.897 +/- 0.029  $\chi^2/\text{NDF}$ : 5894799.0/40

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-206.573 \pm 42.101$   $\chi^2/\text{NDF}$ : 63.0/23

Right Out:  $-183.318 \pm 150.486$   $\chi^2/\text{NDF}$ : 8.8/17

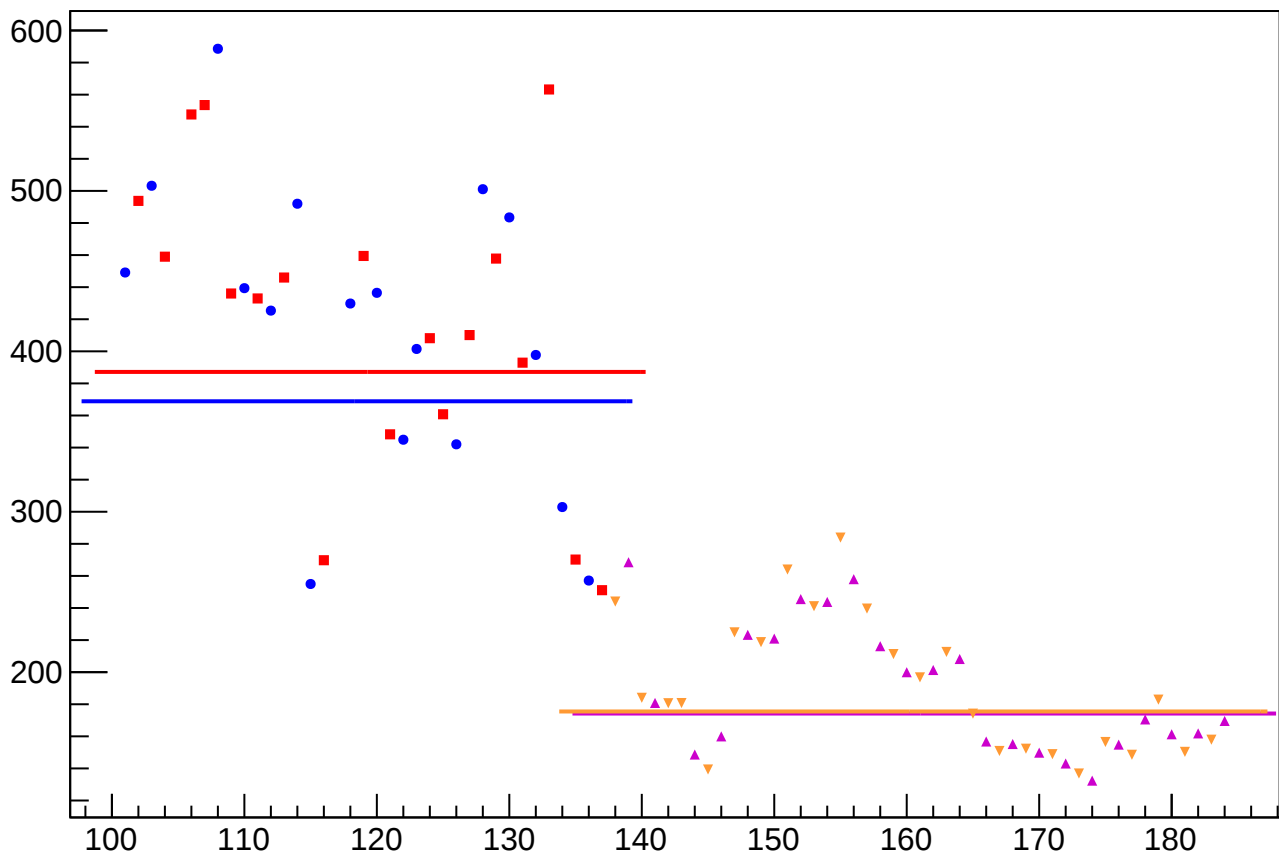
Left In:  $-9.384 \pm 42.437$   $\chi^2/\text{NDF}$ : 25.4/22

+ sign  $-208.125 \pm 40.493$   $\chi^2/\text{NDF}$ : 84.9/40

All:  $-115.963 \pm 28.756$   $\chi^2/\text{NDF}$ : 130.8/81

- sign  $-22.197 \pm 40.844$   $\chi^2/\text{NDF}$ : 35.4/40

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.864 $\pm$ 0.105  $\chi^2$ /NDF: 829732.0/16

Left Out: 175.495 $\pm$ 0.030  $\chi^2$ /NDF: 1496037.6/23

Right Out: 387.165 $\pm$ 0.106  $\chi^2$ /NDF: 758108.0/17

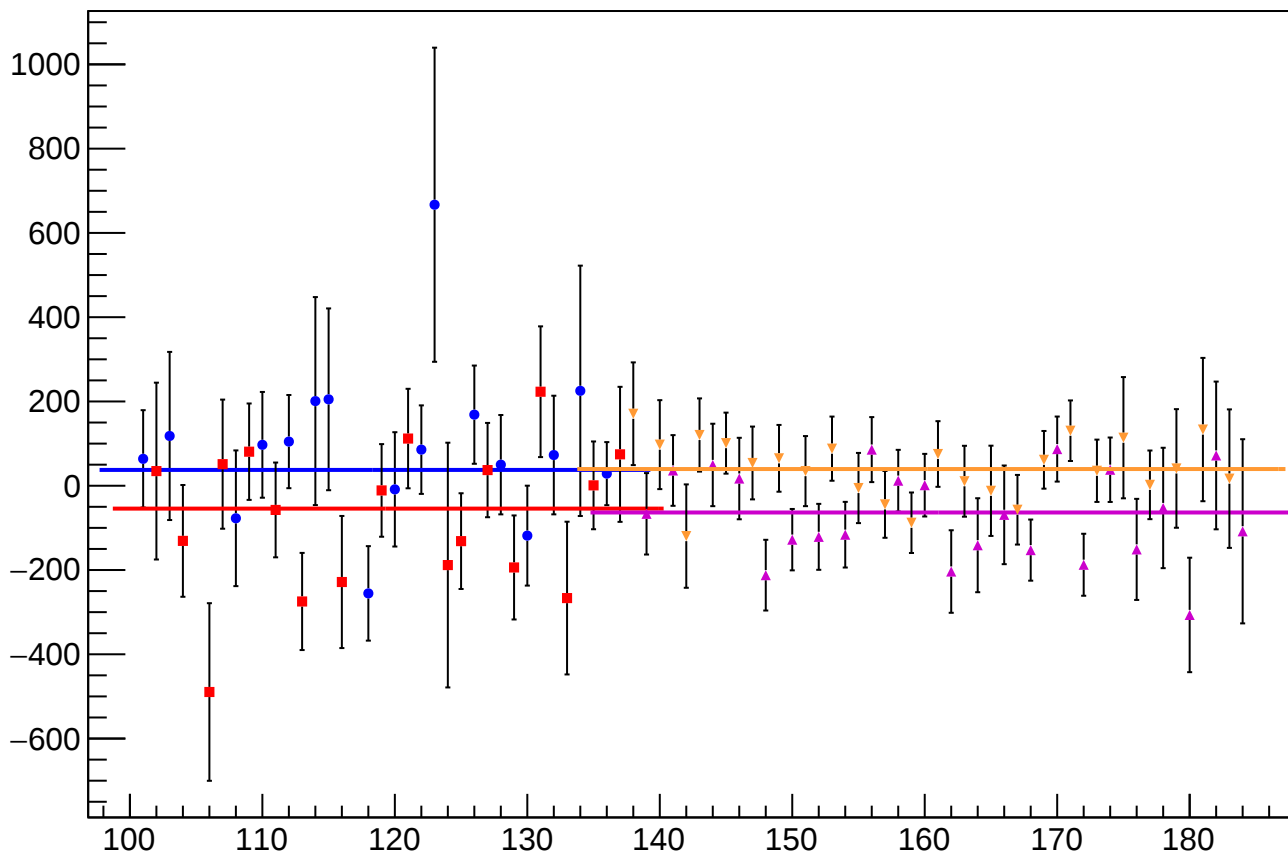
Left In: 174.217 $\pm$ 0.030  $\chi^2$ /NDF: 1364600.9/22

+ sign 189.986 $\pm$ 0.029  $\chi^2$ /NDF: 5487329.5/40

All: 189.945 $\pm$ 0.020  $\chi^2$ /NDF: 11319846.6/83

- sign 189.904 $\pm$ 0.029  $\chi^2$ /NDF: 5832513.0/40

# dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In:  $37.535 \pm 31.460$   $\chi^2/\text{NDF}$ : 15.8/16

Left Out:  $39.642 \pm 17.947$   $\chi^2/\text{NDF}$ : 14.3/23

Right Out:  $-54.274 \pm 31.489$   $\chi^2/\text{NDF}$ : 21.8/17

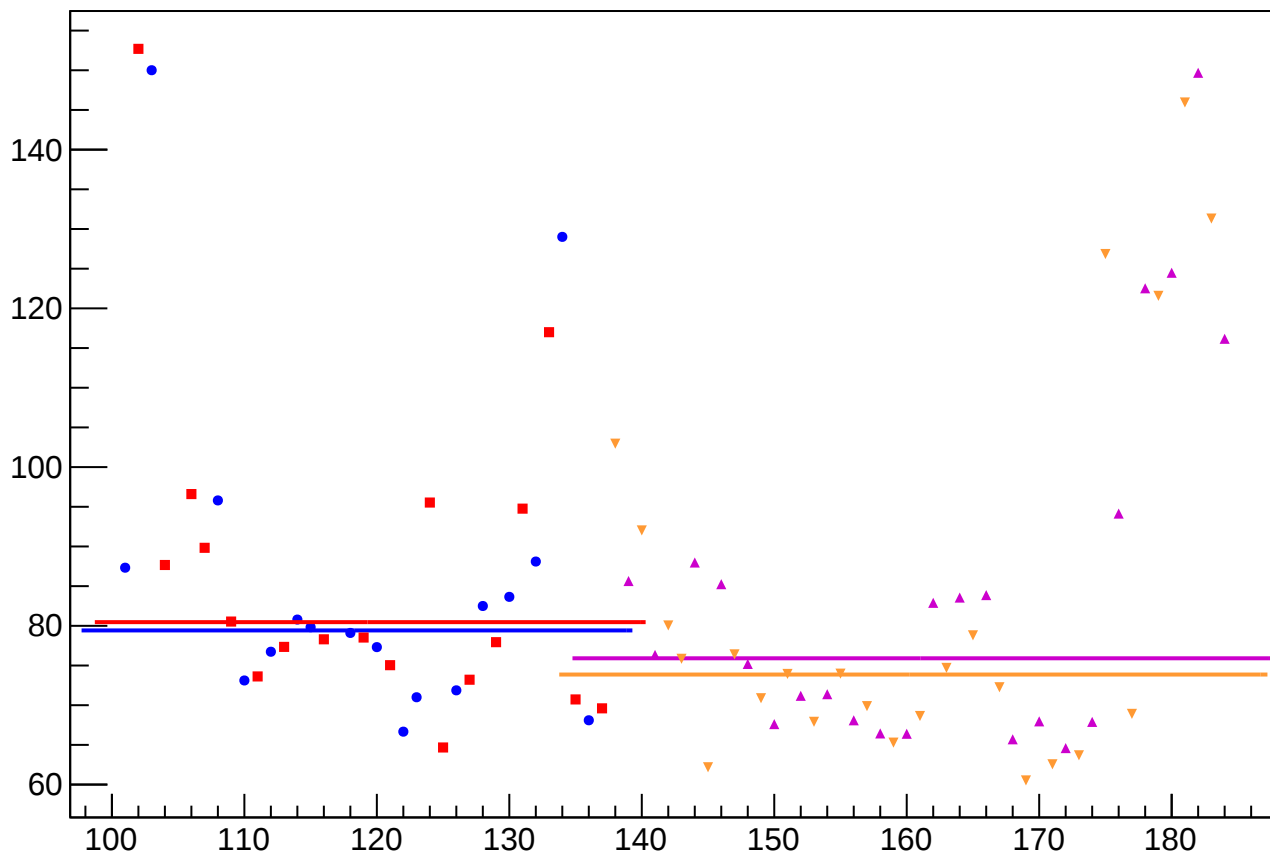
Left In:  $-63.496 \pm 18.723$   $\chi^2/\text{NDF}$ : 30.8/22

+ sign  $39.125 \pm 15.589$   $\chi^2/\text{NDF}$ : 30.1/40

All:  $-9.386 \pm 11.197$   $\chi^2/\text{NDF}$ : 102.7/81

- sign  $-61.087 \pm 16.093$   $\chi^2/\text{NDF}$ : 52.6/40

dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 79.421 $\pm$ 0.022  $\chi^2$ /NDF: 439047.1/16

Left Out: 73.863 $\pm$ 0.013  $\chi^2$ /NDF: 1571395.3/23

Right Out: 80.465 $\pm$ 0.022  $\chi^2$ /NDF: 454376.0/17

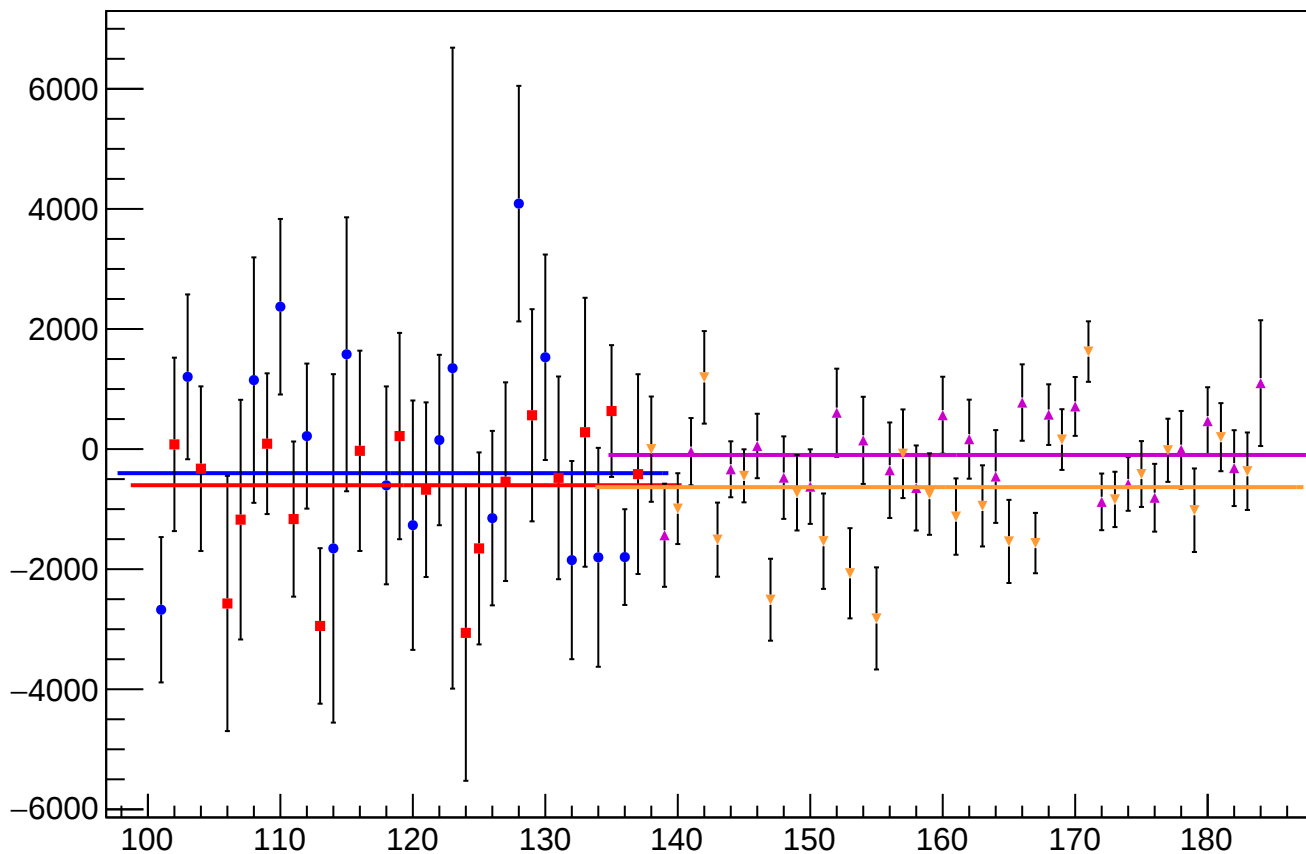
Left In: 75.910 $\pm$ 0.013  $\chi^2$ /NDF: 1292273.0/22

+ sign 75.228 $\pm$ 0.011  $\chi^2$ /NDF: 2057549.5/40

All: 76.134 $\pm$ 0.008  $\chi^2$ /NDF: 3849089.3/81

- sign 77.100 $\pm$ 0.011  $\chi^2$ /NDF: 1777574.5/40

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: -401.047 $\pm$ 368.480  $\chi^2$ /NDF: 21.9/16

Left Out: -633.902 $\pm$ 124.197  $\chi^2$ /NDF: 61.2/23

Right Out: -601.891 $\pm$ 363.668  $\chi^2$ /NDF: 8.7/17

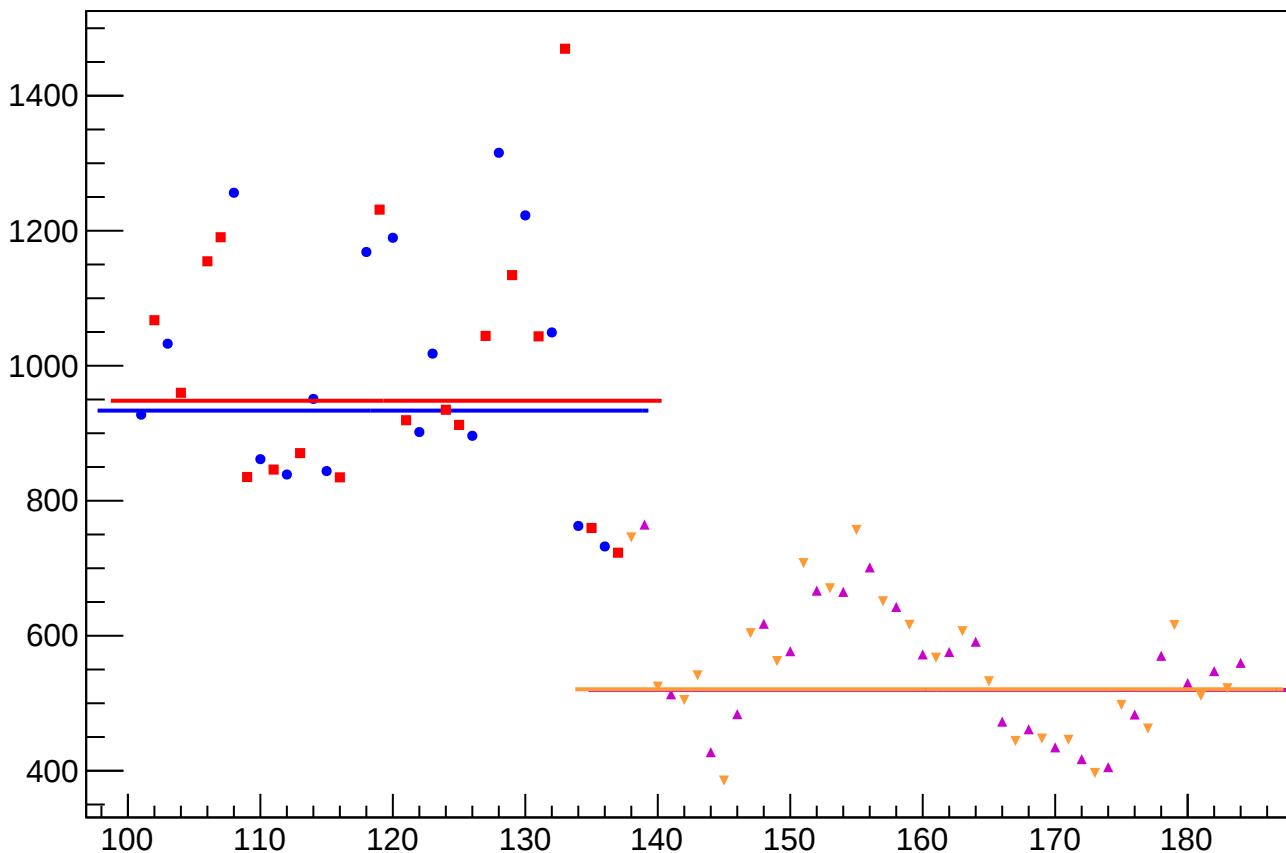
Left In: -97.833 $\pm$ 125.782  $\chi^2$ /NDF: 21.3/22

+ sign -610.148 $\pm$ 117.692  $\chi^2$ /NDF: 83.5/40

All: -383.208 $\pm$ 83.635  $\chi^2$ /NDF: 122.7/81

- sign -151.690 $\pm$ 118.873  $\chi^2$ /NDF: 31.7/40

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 933.530 $\pm$ 0.261  $\chi^2$ /NDF: 442321.9/16

Left Out: 520.718 $\pm$ 0.088  $\chi^2$ /NDF:1194322.8/23

Right Out: 948.131 $\pm$ 0.257  $\chi^2$ /NDF: 405153.7/17

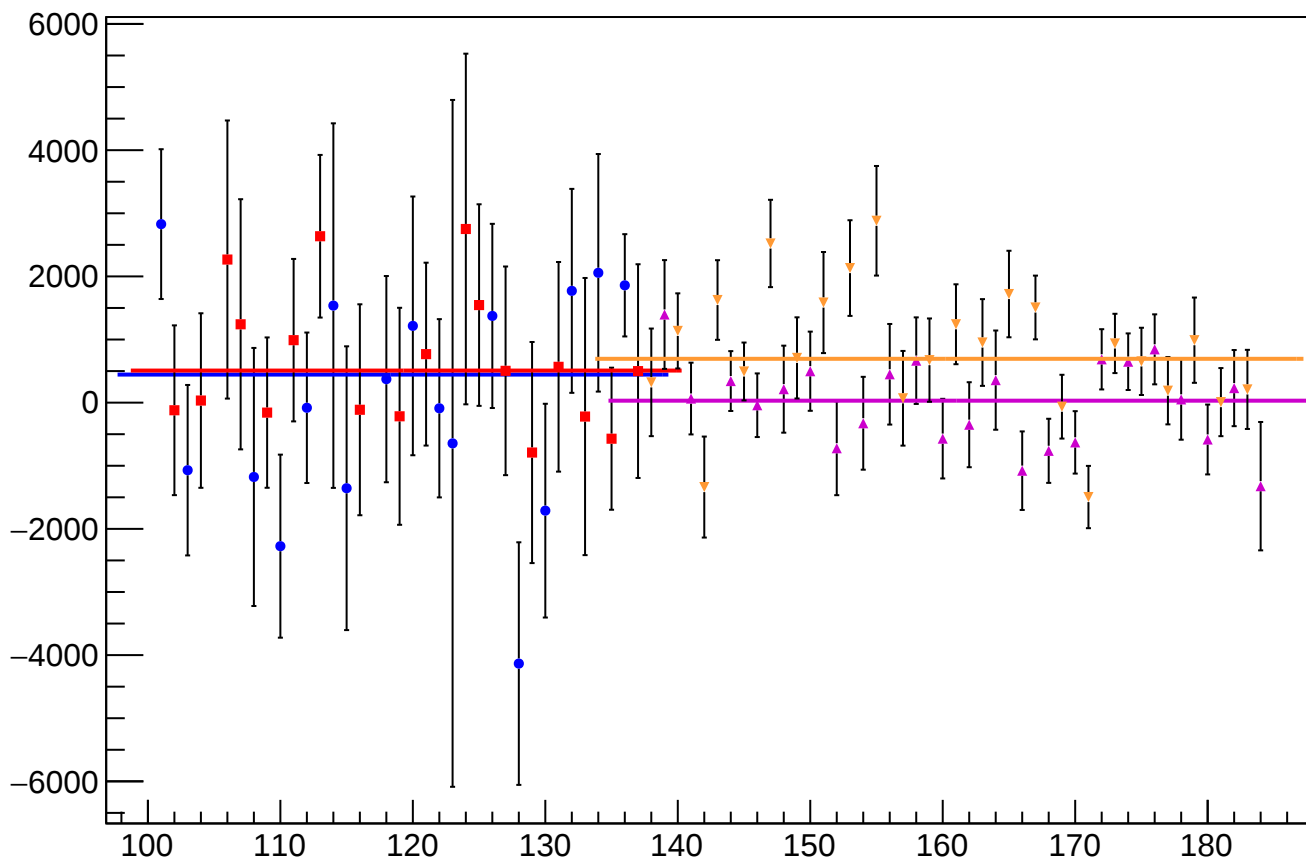
Left In: 519.615 $\pm$ 0.089  $\chi^2$ /NDF:1029150.7/22

+ sign 562.831 $\pm$ 0.083  $\chi^2$ /NDF: 3890768.2/40

All: 564.103 $\pm$ 0.059  $\chi^2$ /NDF: 7805714.9/81

- sign 565.400 $\pm$ 0.084  $\chi^2$ /NDF: 3914474.8/40

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 444.669 $\pm$ 367.099  $\chi^2$ /NDF: 22.9/16

Left Out: 694.505 $\pm$ 124.355  $\chi^2$ /NDF:59.7/23

Right Out: 508.221 $\pm$ 364.112  $\chi^2$ /NDF: 7.3/17

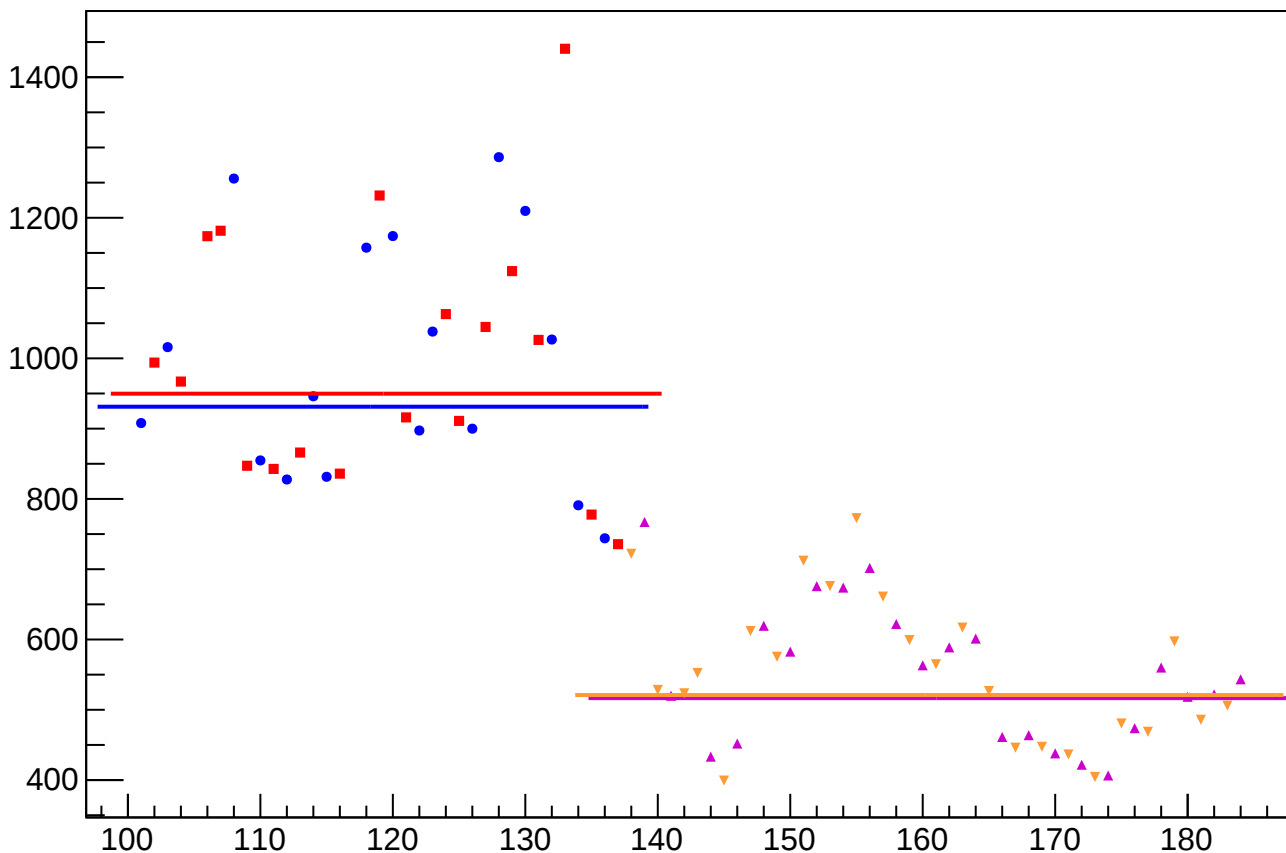
Left In: 31.056 $\pm$ 125.236  $\chi^2$ /NDF:23.8/22

+ sign 668.786 $\pm$ 117.781  $\chi^2$ /NDF: 83.0/40

All: 376.767 $\pm$ 83.511  $\chi^2$ /NDF: 128.0/81

- sign 81.534 $\pm$ 118.427  $\chi^2$ /NDF: 32.7/40

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 521.015 $\pm$ 0.088  $\chi^2$ /NDF:1152579.9/23

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

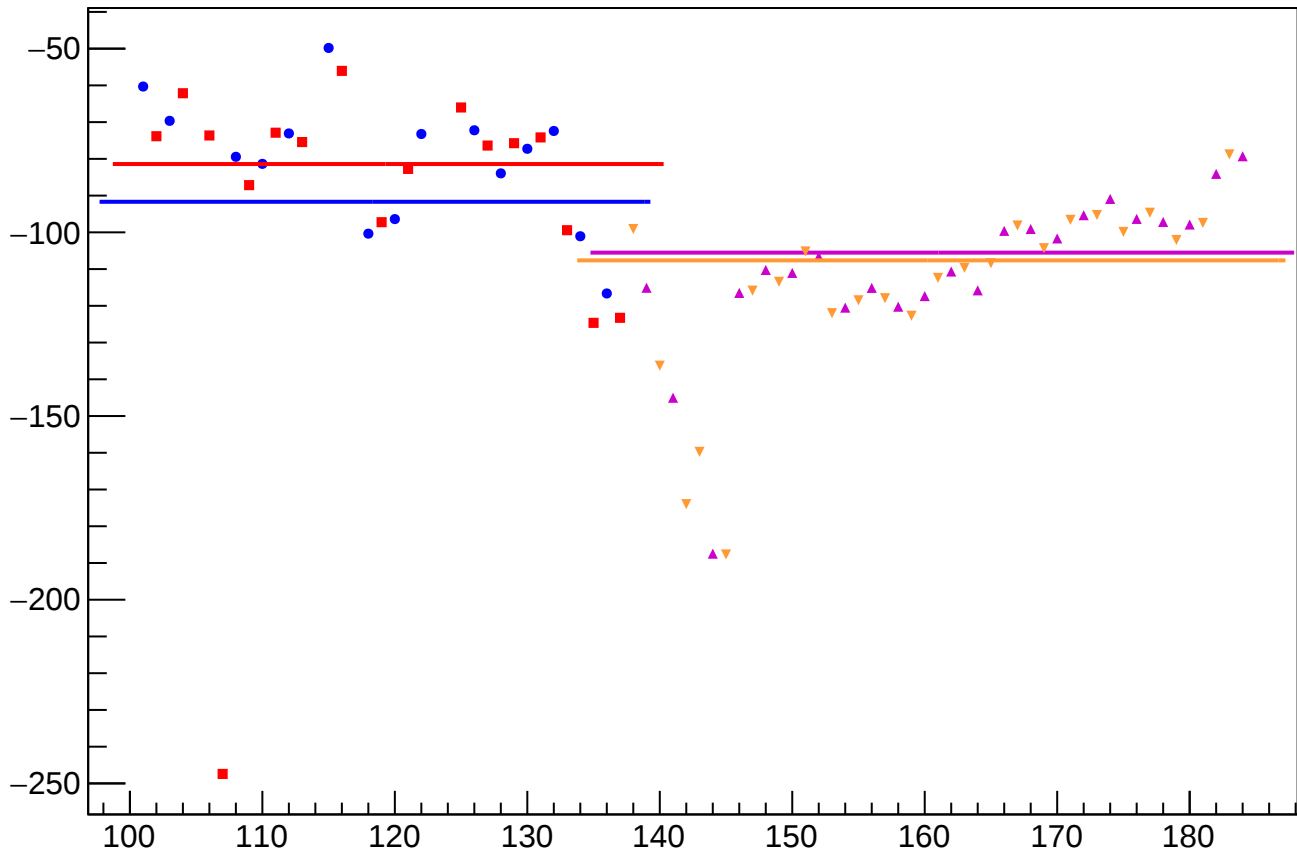
Left In: 516.594 $\pm$ 0.089  $\chi^2$ /NDF:1036092.8/22

+ sign 563.240 $\pm$ 0.083  $\chi^2$ /NDF: 3792833.2/40

All: 562.830 $\pm$ 0.059  $\chi^2$ /NDF: 7725397.6/81

- sign 562.415 $\pm$ 0.084  $\chi^2$ /NDF: 3932515.6/40

# dit\_usl\_4aX\_slope vs Slug



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-107.631 \pm 0.051$   $\chi^2/\text{NDF}$ : 78570.5/23

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

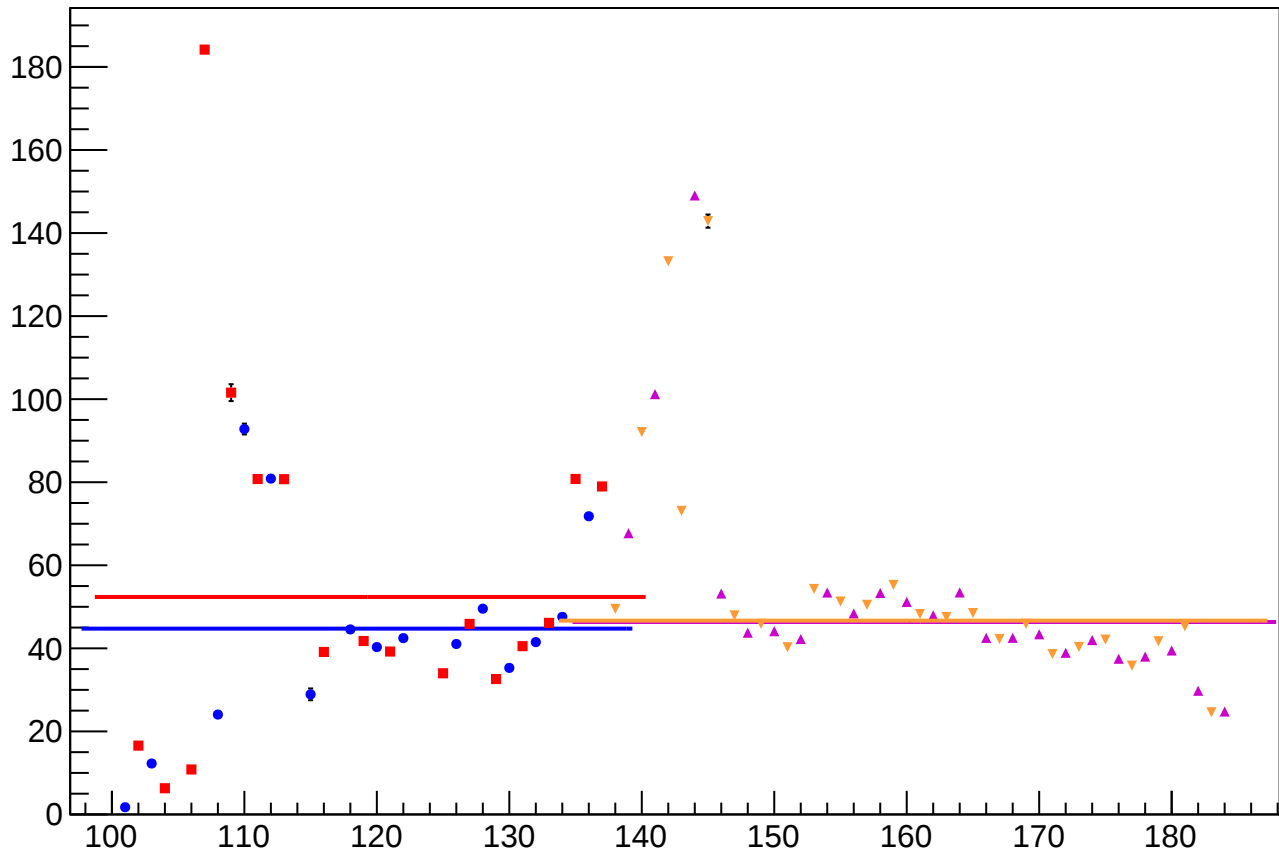
Left In:  $-105.520 \pm 0.046$   $\chi^2/\text{NDF}$ : 128731.9/22

+ sign  $-102.149 \pm 0.041$   $\chi^2/\text{NDF}$ : 177147.6/38

All:  $-101.705 \pm 0.029$   $\chi^2/\text{NDF}$ : 397184.9/78

- sign  $-101.254 \pm 0.041$   $\chi^2/\text{NDF}$ : 219802.0/39

# dit\_usl\_4eX\_slope vs Slug



Right In: 44.745+/-0.061  $\chi^2/\text{NDF}$ : 84697.9/14

Left Out: 46.668+/-0.043  $\chi^2/\text{NDF}$ : 71029.9/23

Right Out: 52.367+/-0.113  $\chi^2/\text{NDF}$ : 69285.2/16

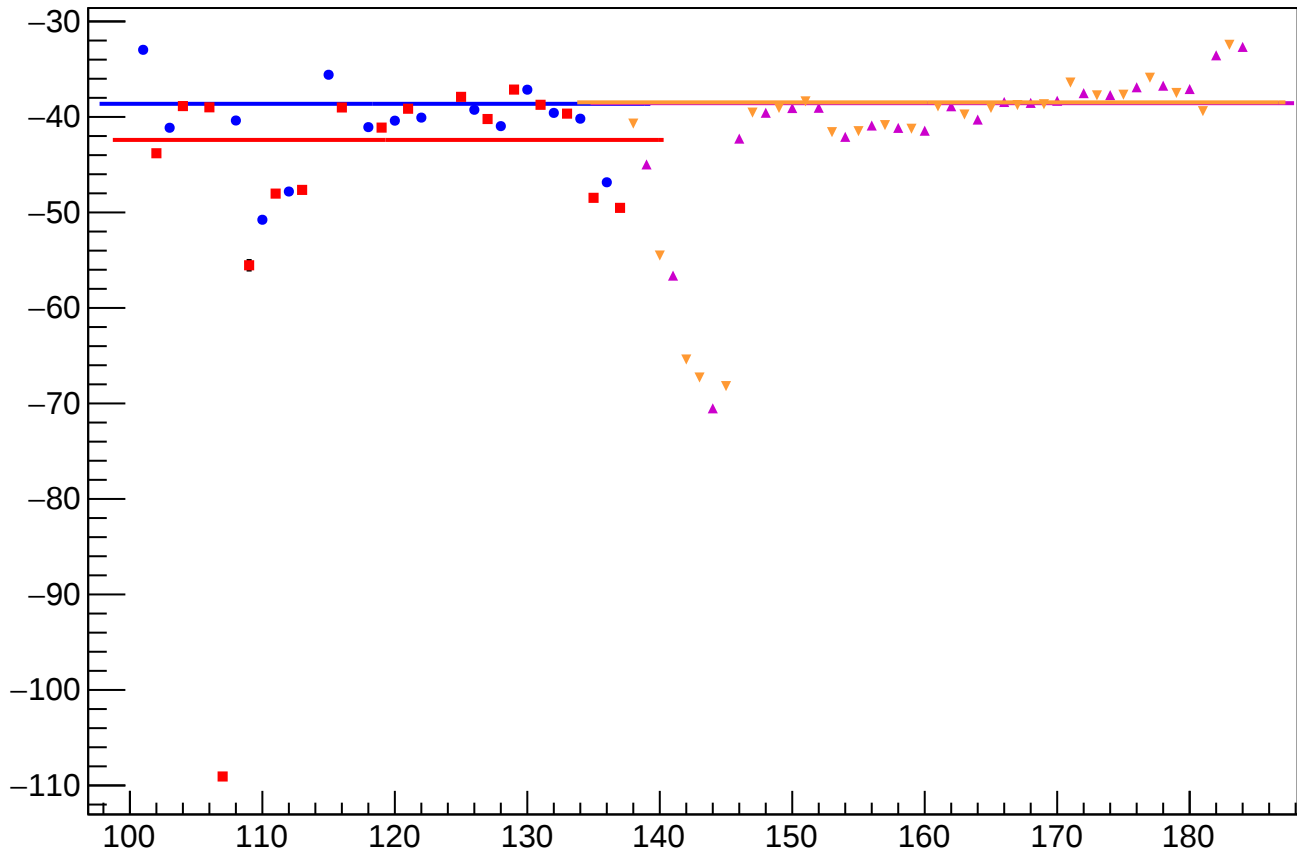
Left In: 46.346+/-0.040  $\chi^2/\text{NDF}$ : 165523.0/22

+ sign 46.028+/-0.035  $\chi^2/\text{NDF}$ : 156400.4/38

All: 46.486+/-0.026  $\chi^2/\text{NDF}$ : 394122.1/78

- sign 47.012+/-0.037  $\chi^2/\text{NDF}$ : 237352.3/39

# dit\_usl\_11X12X\_slope vs Slug



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}$ : 240108.7/14

Left Out:  $-38.473 \pm 0.006$   $\chi^2/\text{NDF}$ : 494789.2/23

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}$ : 269138.5/16

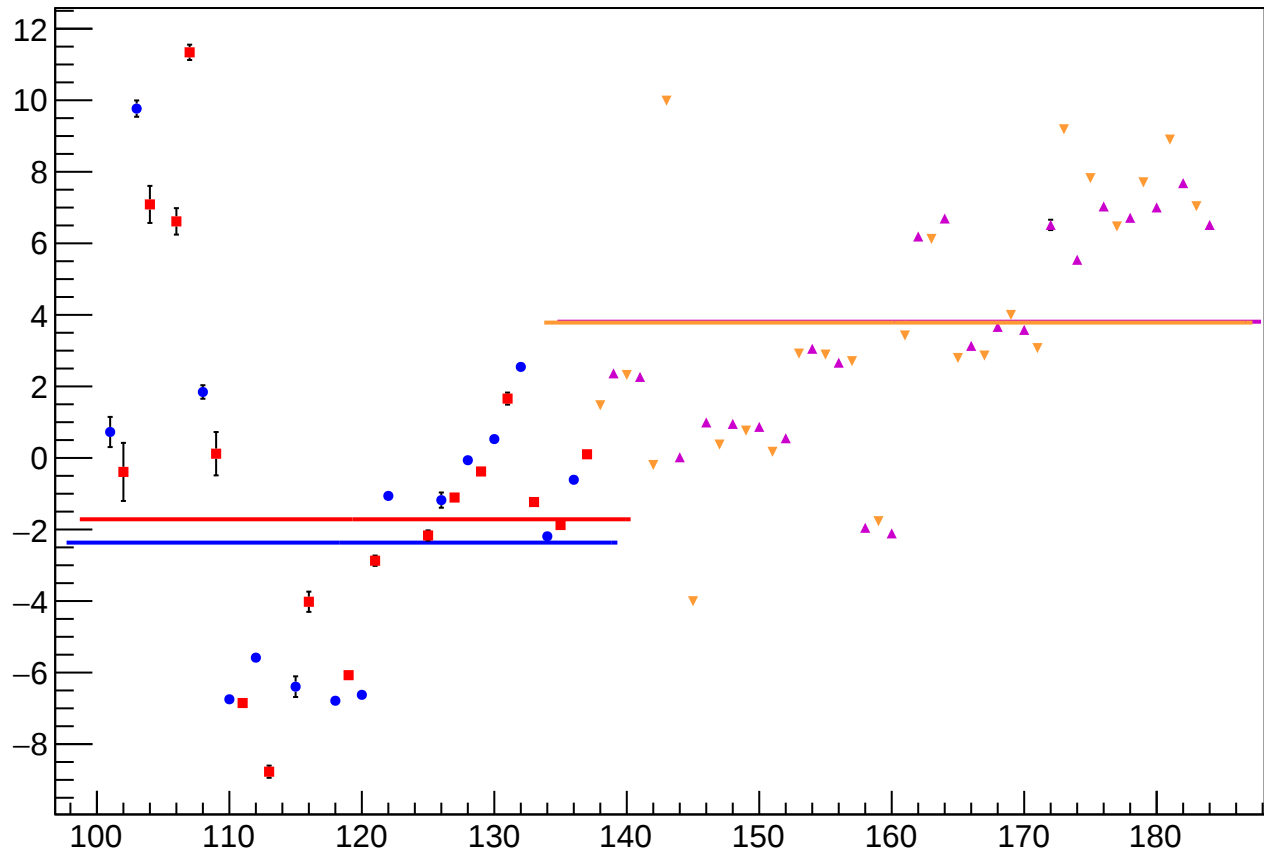
Left In:  $-38.560 \pm 0.007$   $\chi^2/\text{NDF}$ : 334709.2/22

+ sign  $-38.525 \pm 0.005$   $\chi^2/\text{NDF}$ : 735122.6/38

All:  $-38.661 \pm 0.004$   $\chi^2/\text{NDF}$ : 1370972.5/78

- sign  $-38.892 \pm 0.006$   $\chi^2/\text{NDF}$ : 633679.9/39

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}: 28797.3/14$

Left Out:  $3.784 \pm 0.007$   $\chi^2/\text{NDF}: 202945.6/23$

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}: 12719.3/16$

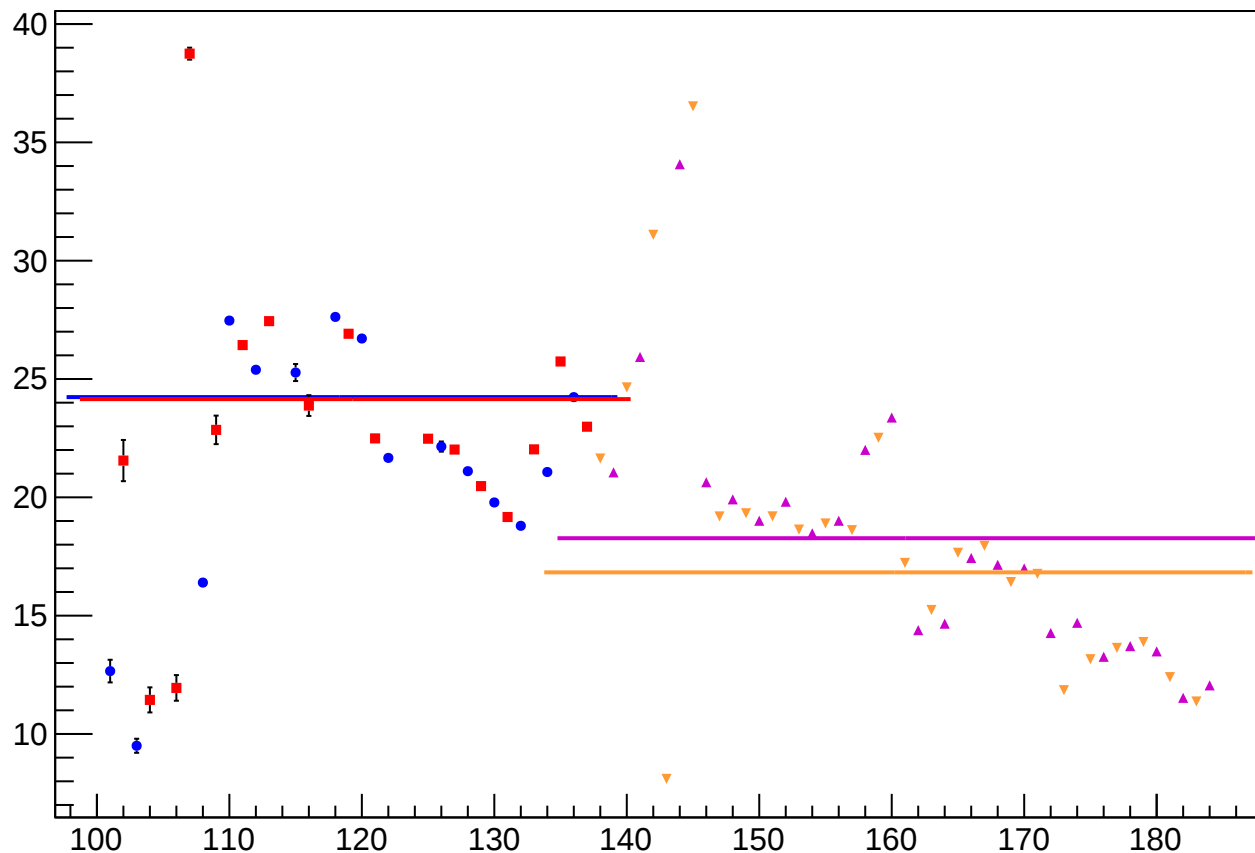
Left In:  $3.809 \pm 0.006$   $\chi^2/\text{NDF}: 229467.1/22$

+ sign  $2.570 \pm 0.006$   $\chi^2/\text{NDF}: 385063.9/38$

All:  $3.110 \pm 0.004$   $\chi^2/\text{NDF}: 680951.7/78$

- sign  $3.562 \pm 0.006$   $\chi^2/\text{NDF}: 282194.6/39$

# dit\_usl\_4eY\_slope vs Slug



Right In: 24.235 $\pm$ 0.022  $\chi^2$ /NDF: 21896.9/14

Left Out: 16.830 $\pm$ 0.007  $\chi^2$ /NDF: 189279.2/23

Right Out: 24.150 $\pm$ 0.024  $\chi^2$ /NDF: 13222.6/16

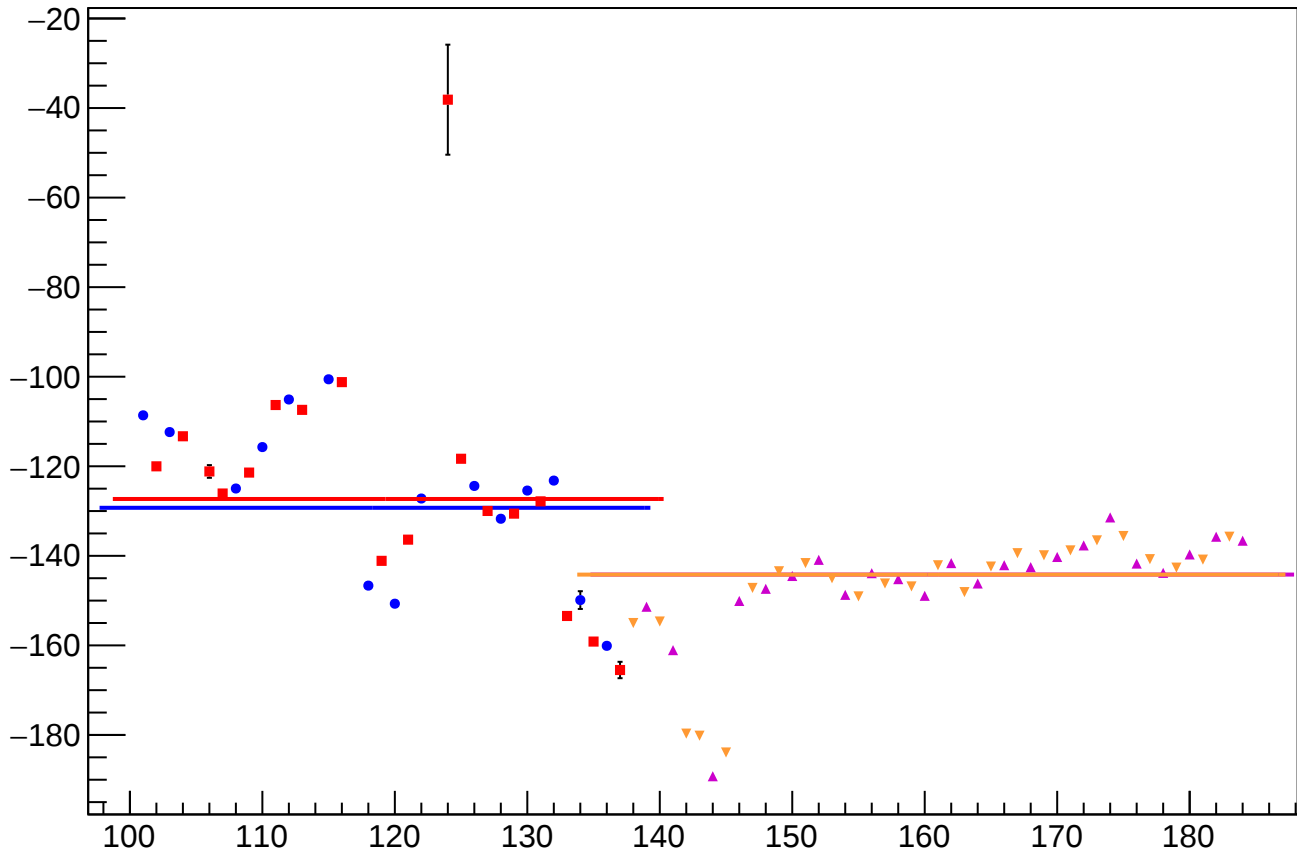
Left In: 18.272 $\pm$ 0.007  $\chi^2$ /NDF: 237719.2/22

+ sign 17.532 $\pm$ 0.007  $\chi^2$ /NDF: 313519.3/38

All: 18.129 $\pm$ 0.005  $\chi^2$ /NDF: 633644.7/78

- sign 18.736 $\pm$ 0.007  $\chi^2$ /NDF: 304519.4/39

# dit\_usr\_4aX\_slope vs Slug



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}: 35109.7/14$

Left Out:  $-144.193 \pm 0.042$   $\chi^2/\text{NDF}: 43581.8/23$

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}: 29597.3/17$

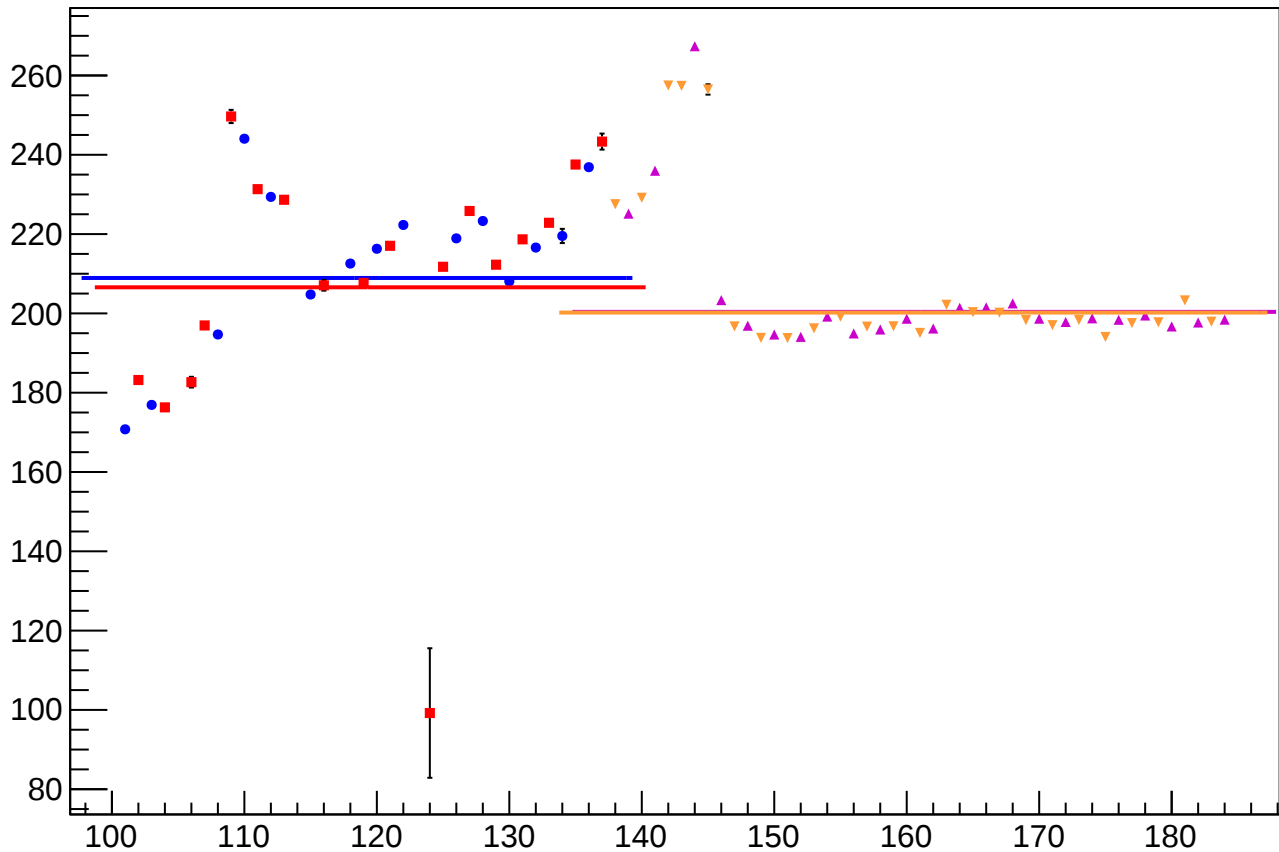
Left In:  $-144.184 \pm 0.045$   $\chi^2/\text{NDF}: 34723.9/22$

+ sign  $-141.432 \pm 0.038$   $\chi^2/\text{NDF}: 102240.6/38$

All:  $-140.958 \pm 0.027$   $\chi^2/\text{NDF}: 198071.0/79$

- sign  $-140.433 \pm 0.040$   $\chi^2/\text{NDF}: 95498.3/40$

# dit\_usr\_4eX\_slope vs Slug



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14

Left Out: 200.208 $\pm$ 0.035  $\chi^2$ /NDF: 109327.2/23

Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17

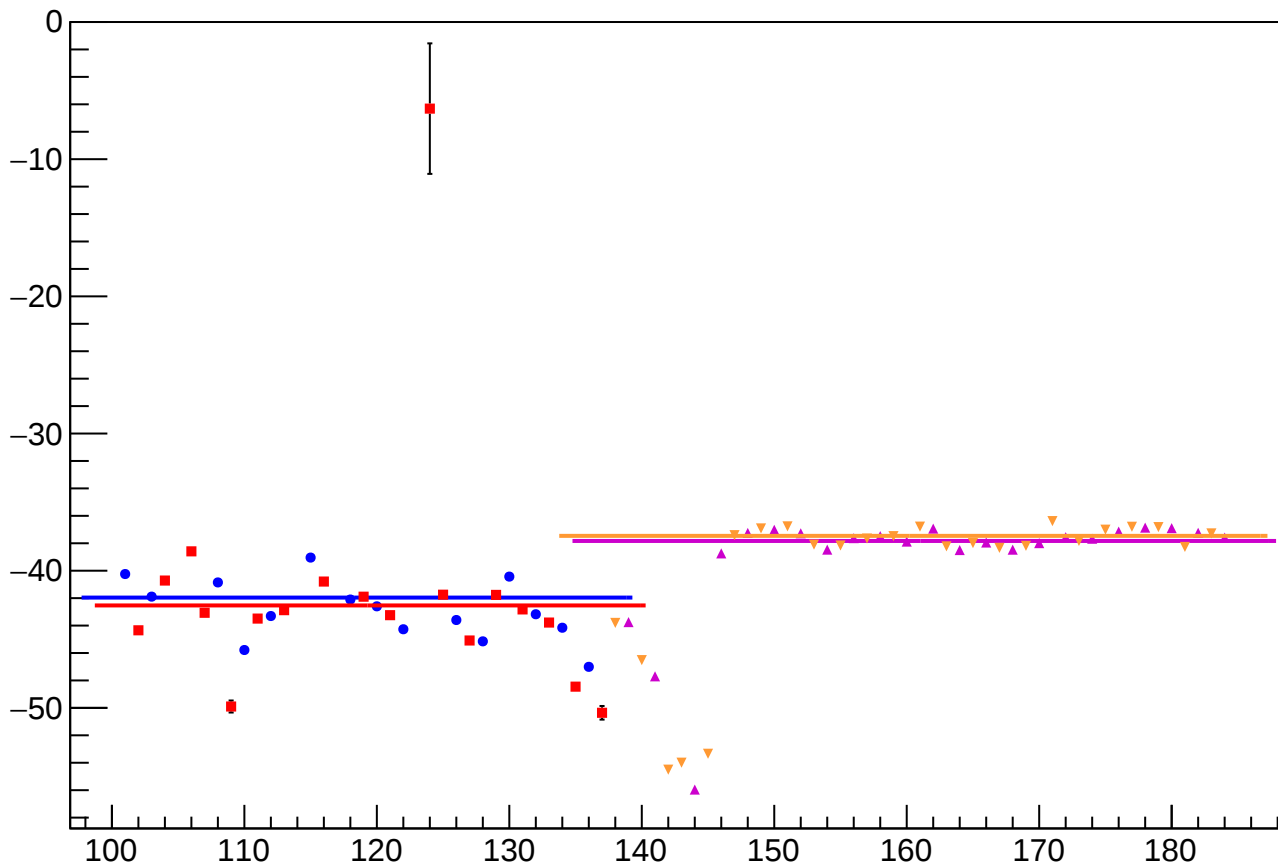
Left In: 200.386 $\pm$ 0.039  $\chi^2$ /NDF: 77918.6/22

+ sign 201.347 $\pm$ 0.032  $\chi^2$ /NDF: 162330.8/38

All: 201.420 $\pm$ 0.024  $\chi^2$ /NDF: 293012.5/79

- sign 201.509 $\pm$ 0.035  $\chi^2$ /NDF: 130670.3/40

# dit\_usr\_11X12X\_slope vs Slug



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.460 \pm 0.004$   $\chi^2/\text{NDF}$ : 231546.5/23

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

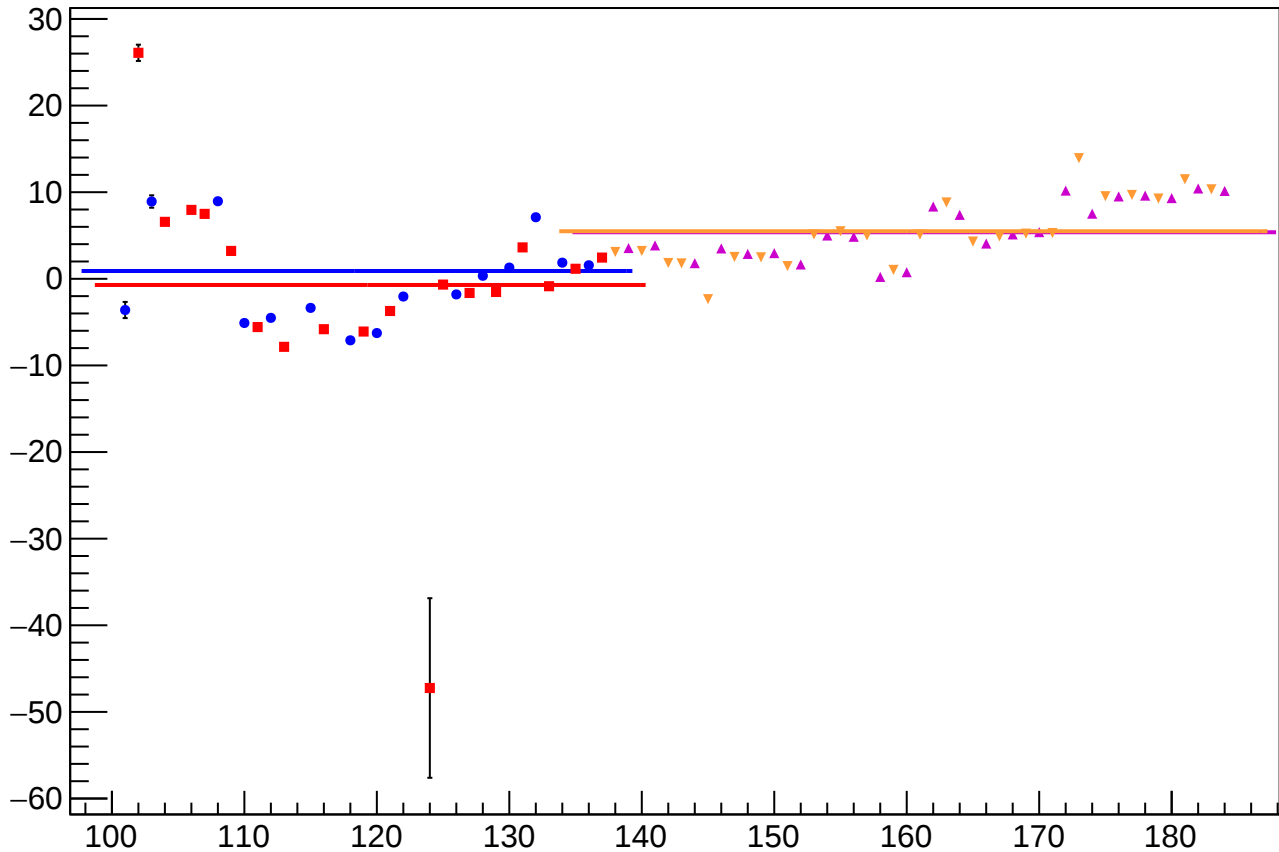
Left In:  $-37.832 \pm 0.004$   $\chi^2/\text{NDF}$ : 142924.4/22

+ sign  $-37.703 \pm 0.004$   $\chi^2/\text{NDF}$ : 334418.8/38

All:  $-37.841 \pm 0.003$   $\chi^2/\text{NDF}$ : 536519.8/79

- sign  $-38.015 \pm 0.004$   $\chi^2/\text{NDF}$ : 198828.3/40

# dit\_usr\_4aY\_slope vs Slug



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 21140.4/14

Left Out:  $5.493 \pm 0.006$   $\chi^2/\text{NDF}$ : 295416.3/23

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}$ : 30723.8/17

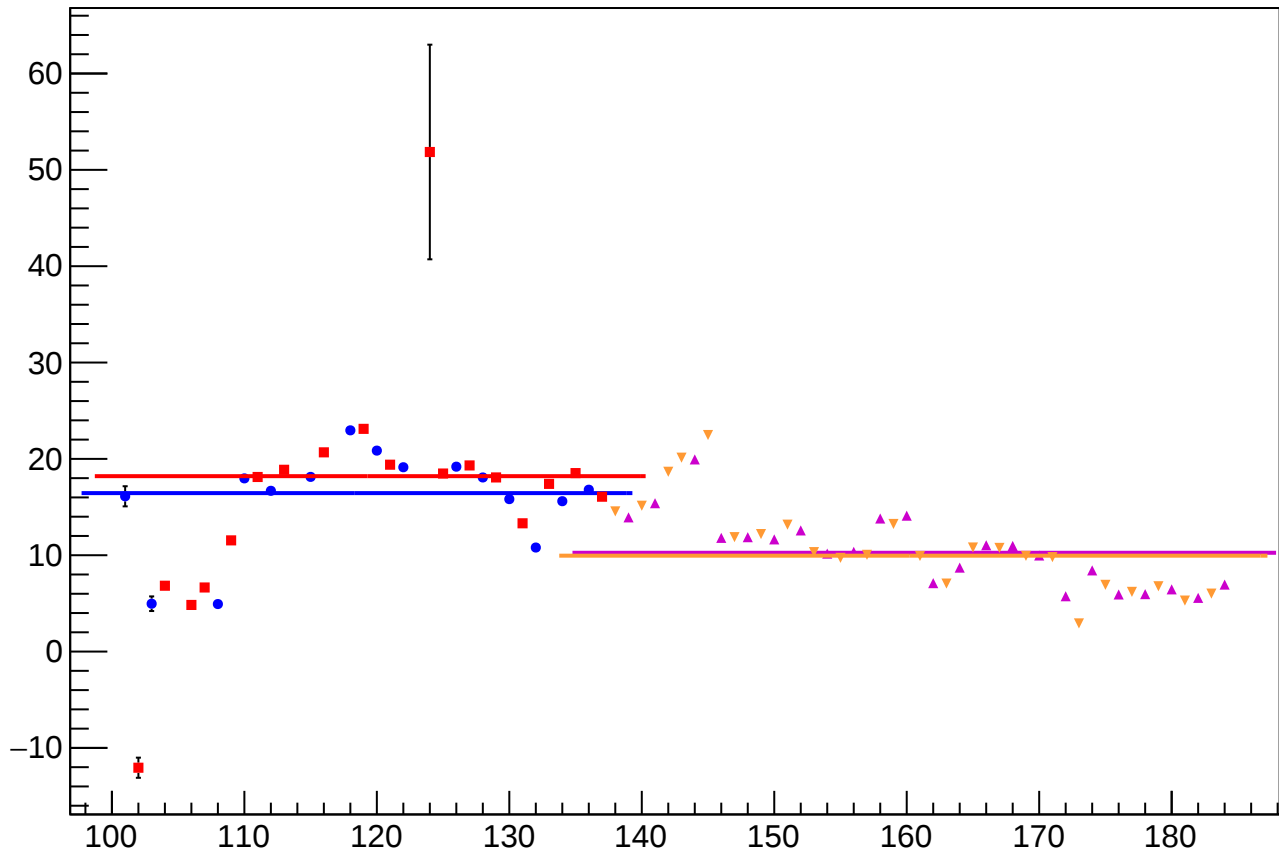
Left In:  $5.375 \pm 0.007$   $\chi^2/\text{NDF}$ : 205713.7/22

+ sign  $5.148 \pm 0.005$   $\chi^2/\text{NDF}$ : 365050.8/38

All:  $5.066 \pm 0.004$   $\chi^2/\text{NDF}$ : 660409.2/79

- sign  $4.956 \pm 0.006$   $\chi^2/\text{NDF}$ : 294837.2/40

# dit\_usr\_4eY\_slope vs Slug



Right In:  $16.447 \pm 0.024$   $\chi^2/\text{NDF}: 14183.1/14$

Left Out:  $9.954 \pm 0.007$   $\chi^2/\text{NDF}: 210293.1/23$

Right Out:  $18.207 \pm 0.020$   $\chi^2/\text{NDF}: 27493.7/17$

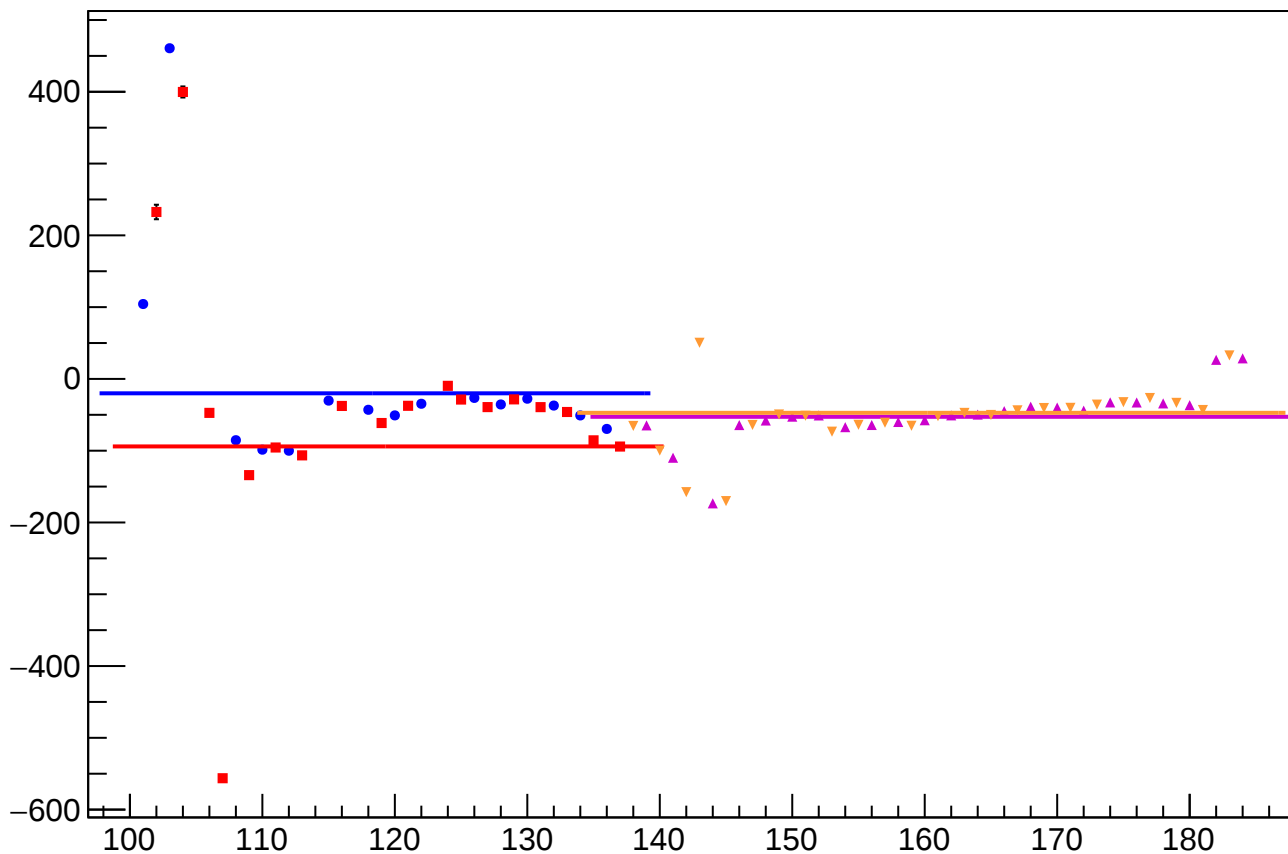
Left In:  $10.254 \pm 0.008$   $\chi^2/\text{NDF}: 137399.6/22$

+ sign  $10.468 \pm 0.007$   $\chi^2/\text{NDF}: 289646.1/38$

All:  $10.861 \pm 0.005$   $\chi^2/\text{NDF}: 592692.6/79$

- sign  $11.332 \pm 0.008$   $\chi^2/\text{NDF}: 295859.7/40$

# dit\_atl1\_4aX\_slope vs Slug



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}$ : 441461.8/14

Left Out:  $-47.236 \pm 0.089$   $\chi^2/\text{NDF}$ : 90111.9/23

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}$ : 87487.7/17

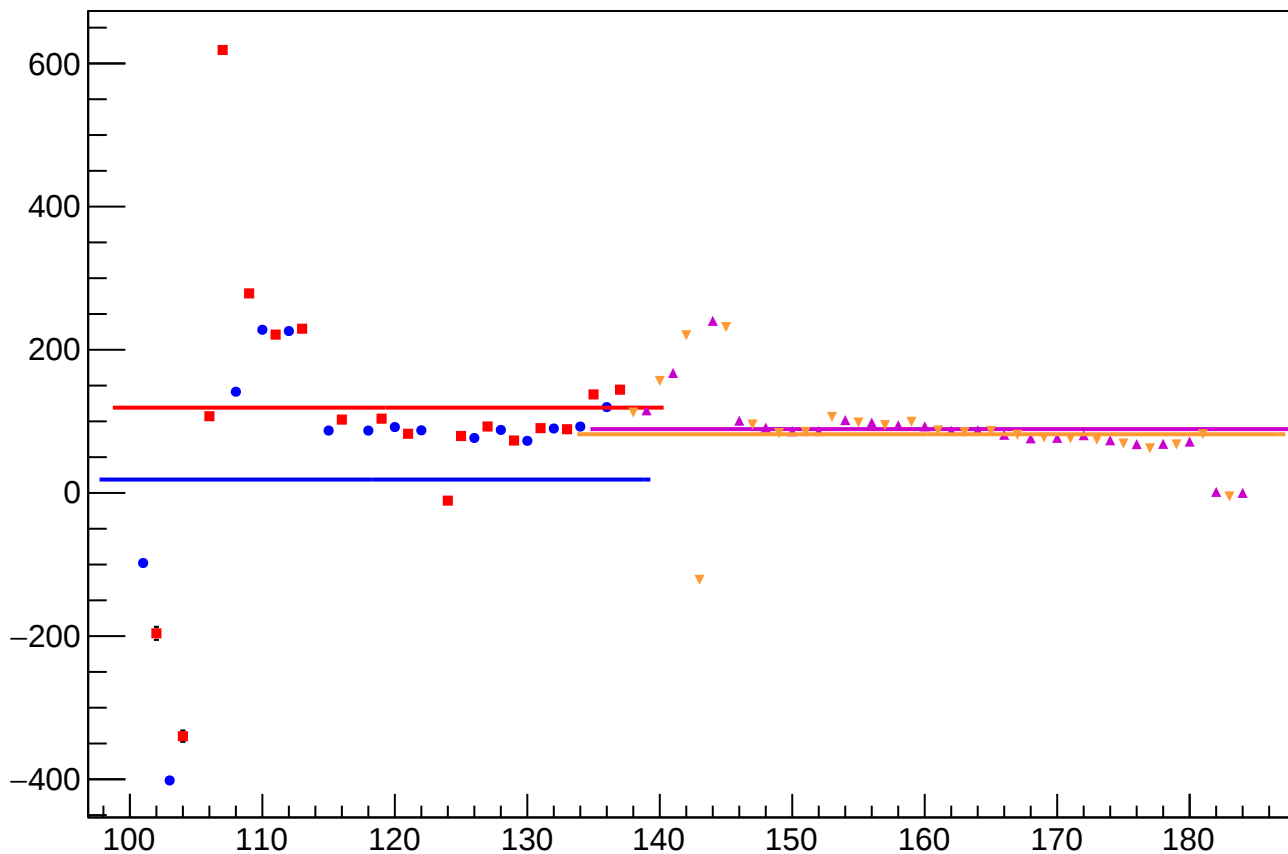
Left In:  $-52.769 \pm 0.103$   $\chi^2/\text{NDF}$ : 70359.7/22

+ sign  $-40.422 \pm 0.077$   $\chi^2/\text{NDF}$ : 555169.4/38

All:  $-92.118 \pm 0.012$   $\chi^2/\text{NDF}$ : 1337375.9/79

- sign  $-93.458 \pm 0.012$   $\chi^2/\text{NDF}$ : 315932.9/40

# dit\_atl1\_4eX\_slope vs Slug



Right In:  $18.731 \pm 0.152$   $\chi^2/\text{NDF}: 1101803.8/14$

Left Out:  $81.976 \pm 0.078$   $\chi^2/\text{NDF}: 219583.1/23$

Right Out:  $119.167 \pm 0.199$   $\chi^2/\text{NDF}: 87450.0/17$

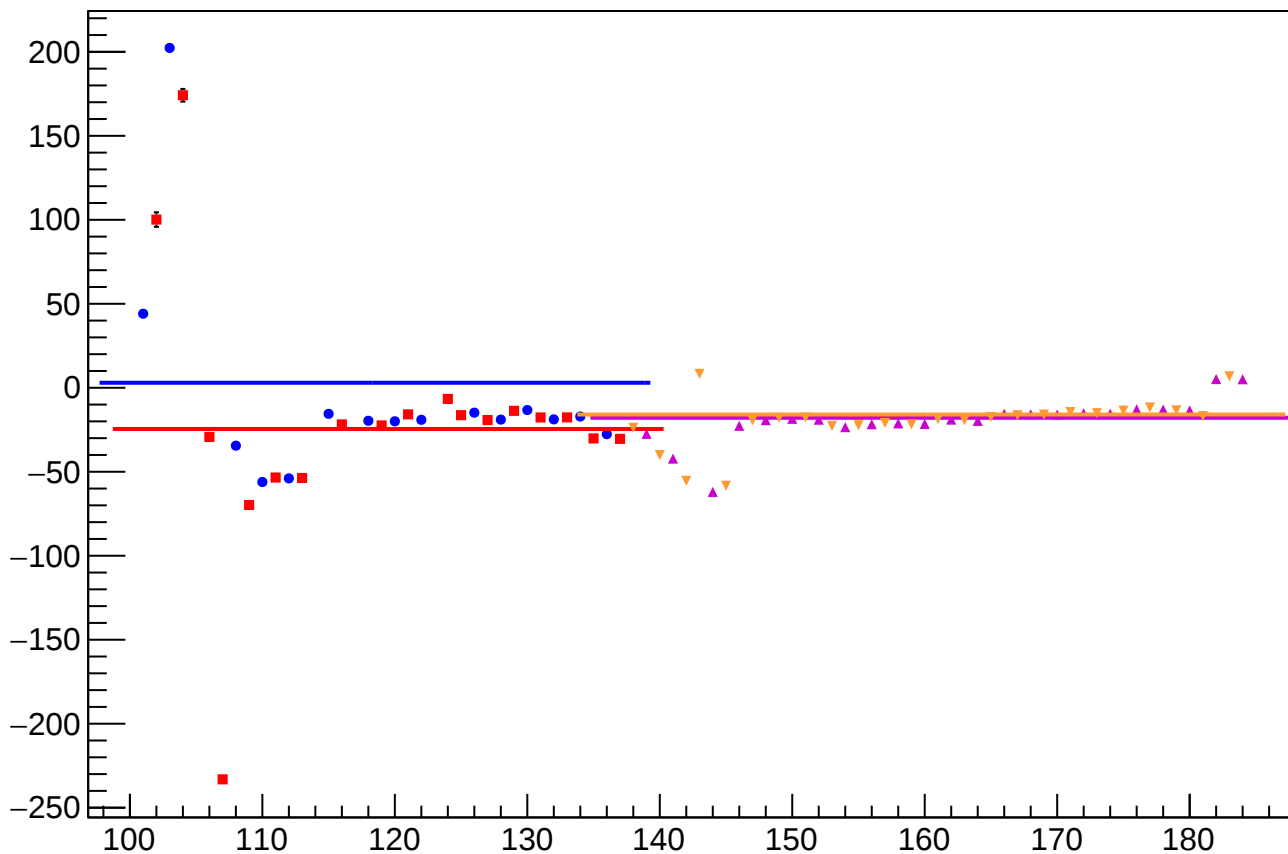
Left In:  $89.202 \pm 0.090$   $\chi^2/\text{NDF}: 95378.9/22$

+ sign  $68.718 \pm 0.070$   $\chi^2/\text{NDF}: 1458082.1/38$

All:  $79.433 \pm 0.053$   $\chi^2/\text{NDF}: 1716173.1/79$

- sign  $94.268 \pm 0.082$   $\chi^2/\text{NDF}: 201622.0/40$

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}$ : 3496745.8/14

Left Out:  $-15.912 \pm 0.011$   $\chi^2/\text{NDF}$ : 672177.5/23

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}$ : 176488.8/17

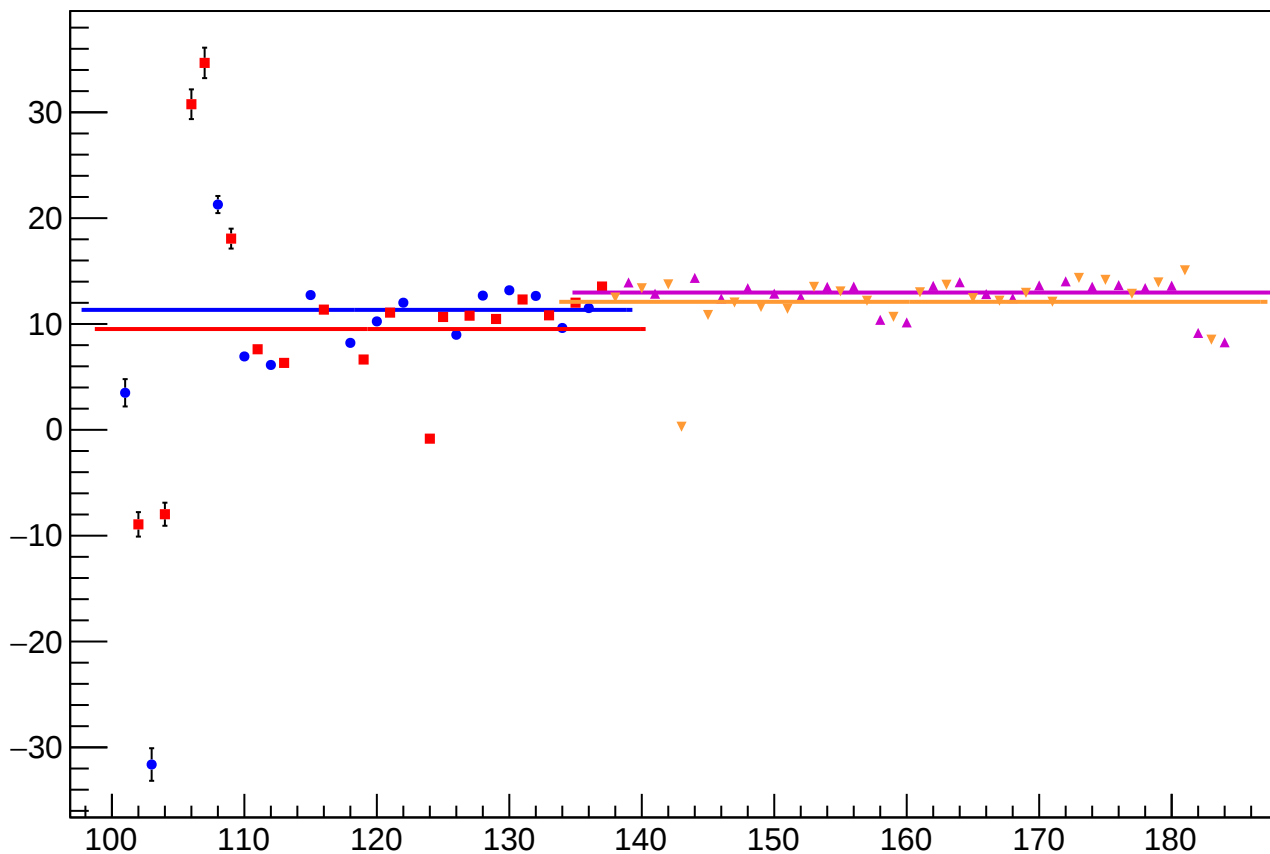
Left In:  $-17.854 \pm 0.012$   $\chi^2/\text{NDF}$ : 251583.5/22

+ sign  $-13.317 \pm 0.010$   $\chi^2/\text{NDF}$ : 4595368.0/38

All:  $-15.422 \pm 0.008$   $\chi^2/\text{NDF}$ : 5151679.3/79

- sign  $-18.336 \pm 0.012$   $\chi^2/\text{NDF}$ : 449814.8/40

# dit\_atl1\_4aY\_slope vs Slug



Right In: 11.334+/-0.037  $\chi^2/\text{NDF}$ : 2406.0/14

Left Out: 12.095+/-0.014  $\chi^2/\text{NDF}$ : 38884.4/23

Right Out: 9.524+/-0.048  $\chi^2/\text{NDF}$ : 4066.9/17

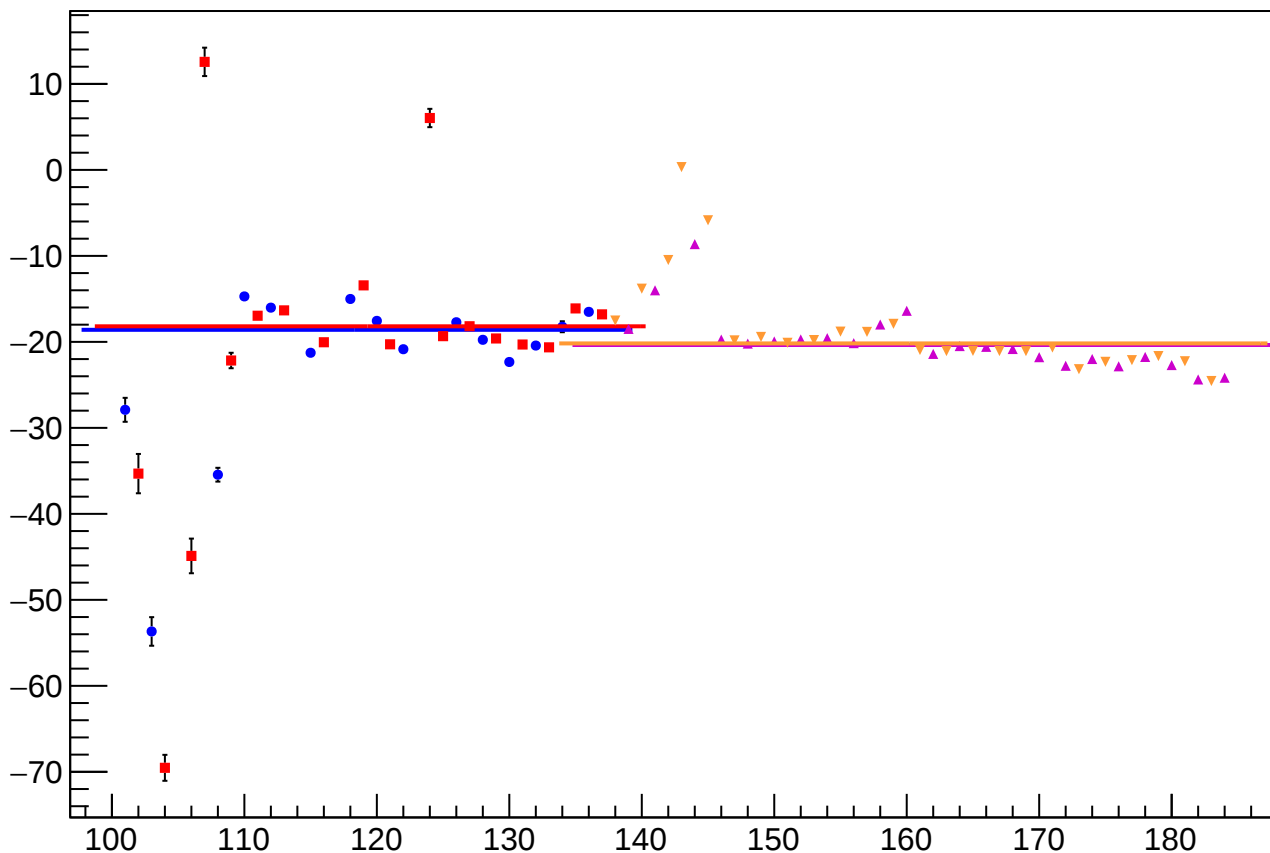
Left In: 12.971+/-0.011  $\chi^2/\text{NDF}$ : 9592.9/22

+ sign 12.006+/-0.013  $\chi^2/\text{NDF}$ : 41656.1/38

All: 12.459+/-0.008  $\chi^2/\text{NDF}$ : 62380.8/79

- sign 12.791+/-0.011  $\chi^2/\text{NDF}$ : 18545.6/40

# dit\_atl1\_4eY\_slope vs Slug



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14

Left Out:  $-20.179 \pm 0.014$   $\chi^2/\text{NDF}$ : 74922.3/23

Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17

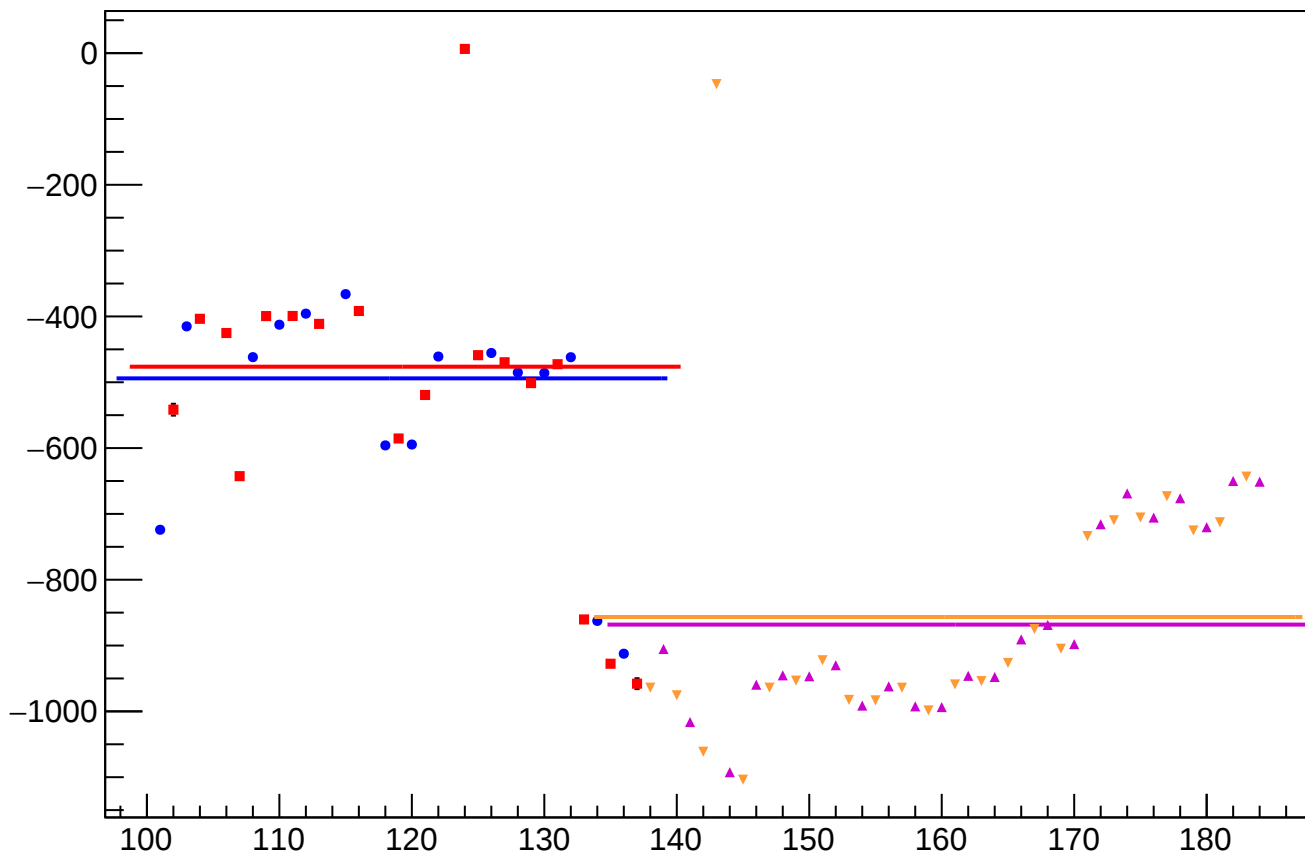
Left In:  $-20.362 \pm 0.015$   $\chi^2/\text{NDF}$ : 19964.2/22

+ sign  $-19.971 \pm 0.013$   $\chi^2/\text{NDF}$ : 82686.3/38

All:  $-20.066 \pm 0.010$   $\chi^2/\text{NDF}$ : 109404.1/79

- sign  $-20.176 \pm 0.014$   $\chi^2/\text{NDF}$ : 26610.5/40

# dit\_atl2\_4aX\_slope vs Slug



Right In: -494.081+/-0.232     $\chi^2$ /NDF: 325996.5/14

Left Out: -856.625+/-0.146     $\chi^2$ /NDF: 979738.8/23

Right Out: -476.348+/-0.185     $\chi^2$ /NDF: 594116.3/17

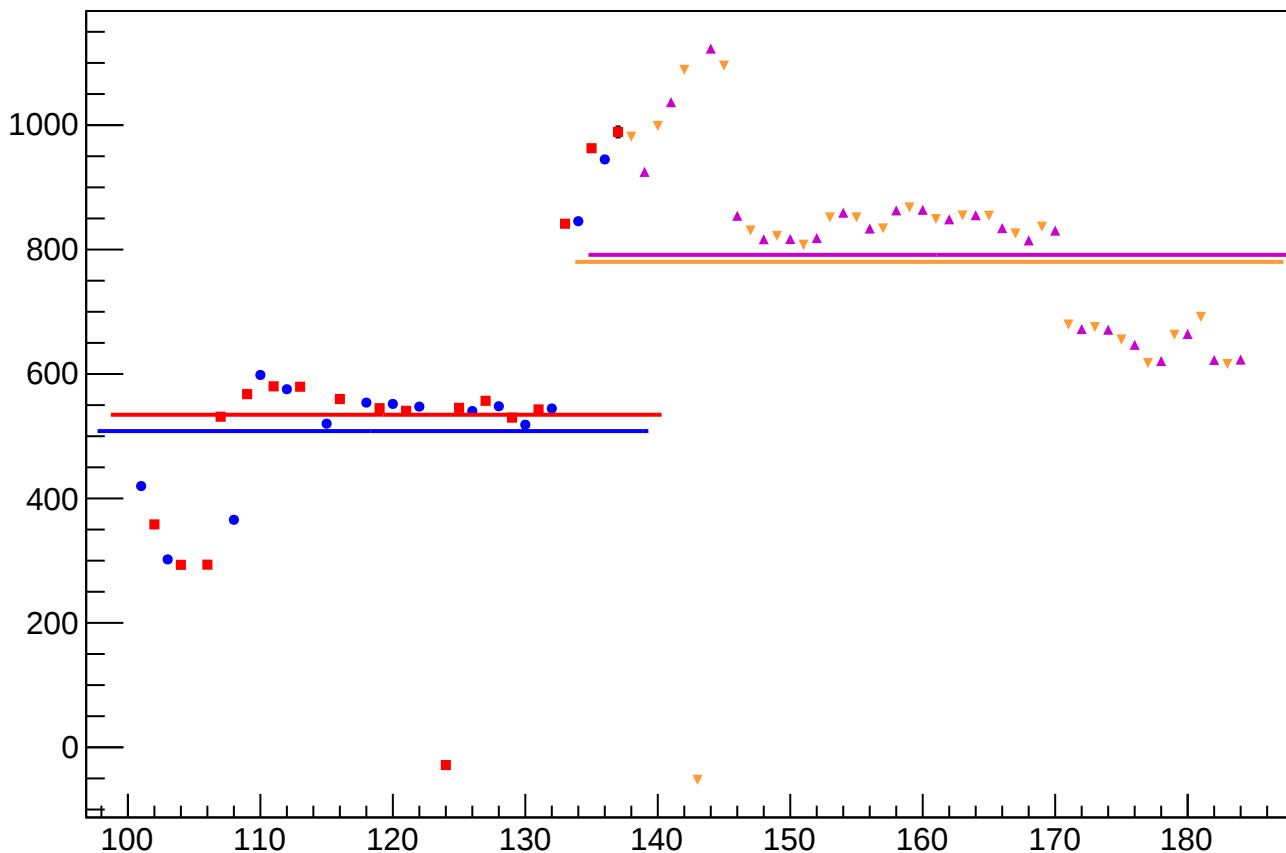
Left In: -868.181+/-0.145     $\chi^2$ /NDF: 820548.1/22

+ sign -754.319+/-0.123     $\chi^2$ /NDF: 3057145.8/38

All: -735.189+/-0.084     $\chi^2$ /NDF: 7287829.4/79

- sign -718.741+/-0.114     $\chi^2$ /NDF: 4185912.9/40

# dit\_atl2\_4eX\_slope vs Slug



Right In: 508.267 $\pm$ 0.222  $\chi^2$ /NDF: 439489.9/14

Left Out: 780.239 $\pm$ 0.120  $\chi^2$ /NDF: 913991.4/23

Right Out: 534.536 $\pm$ 0.217  $\chi^2$ /NDF: 368263.1/17

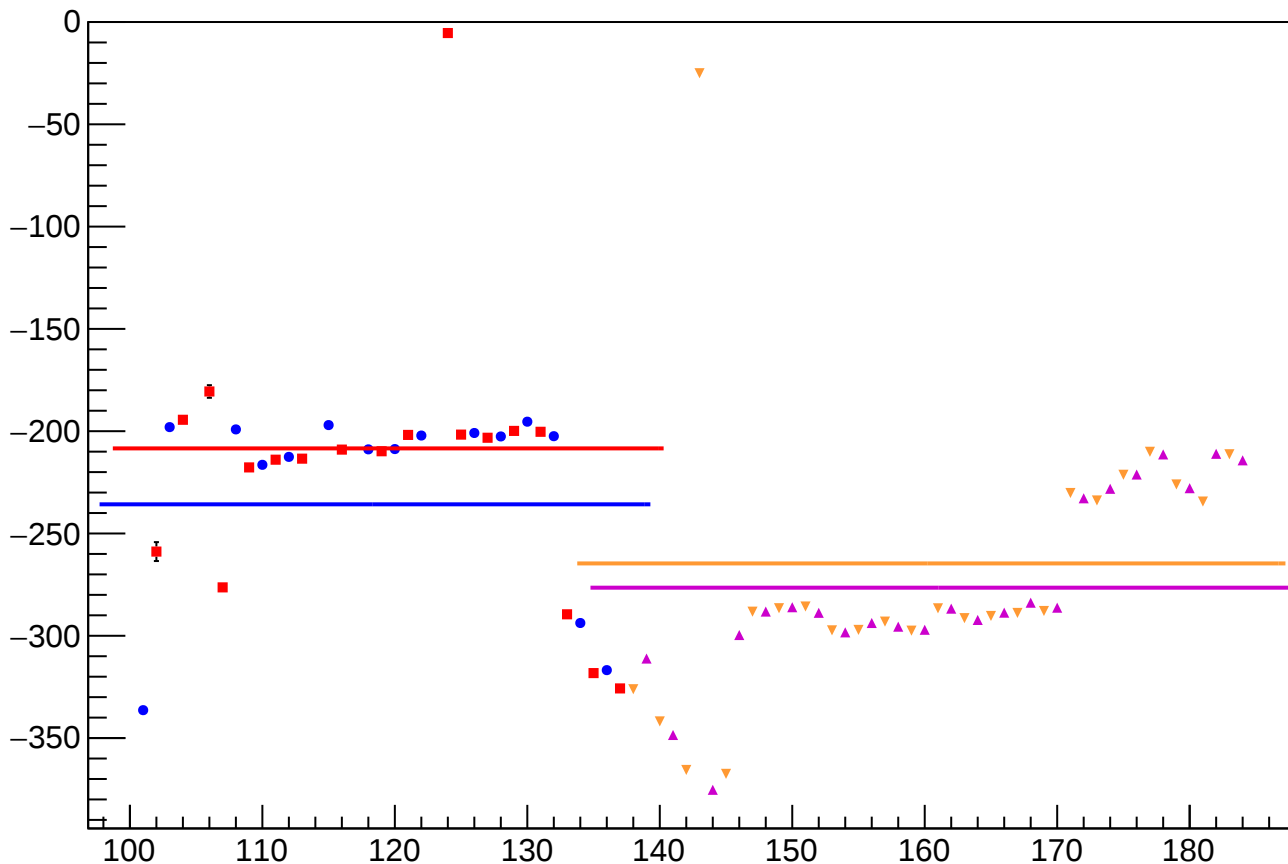
Left In: 791.519 $\pm$ 0.122  $\chi^2$ /NDF: 690326.2/22

+ sign 718.287 $\pm$ 0.106  $\chi^2$ /NDF: 2515926.0/38

All: 724.184 $\pm$ 0.075  $\chi^2$ /NDF: 4646422.7/79

- sign 730.121 $\pm$ 0.106  $\chi^2$ /NDF: 2124261.9/40

# dit\_atl2\_11X12X\_slope vs Slug



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-264.637 \pm 0.022$   $\chi^2/\text{NDF}: 7445319.1/23$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

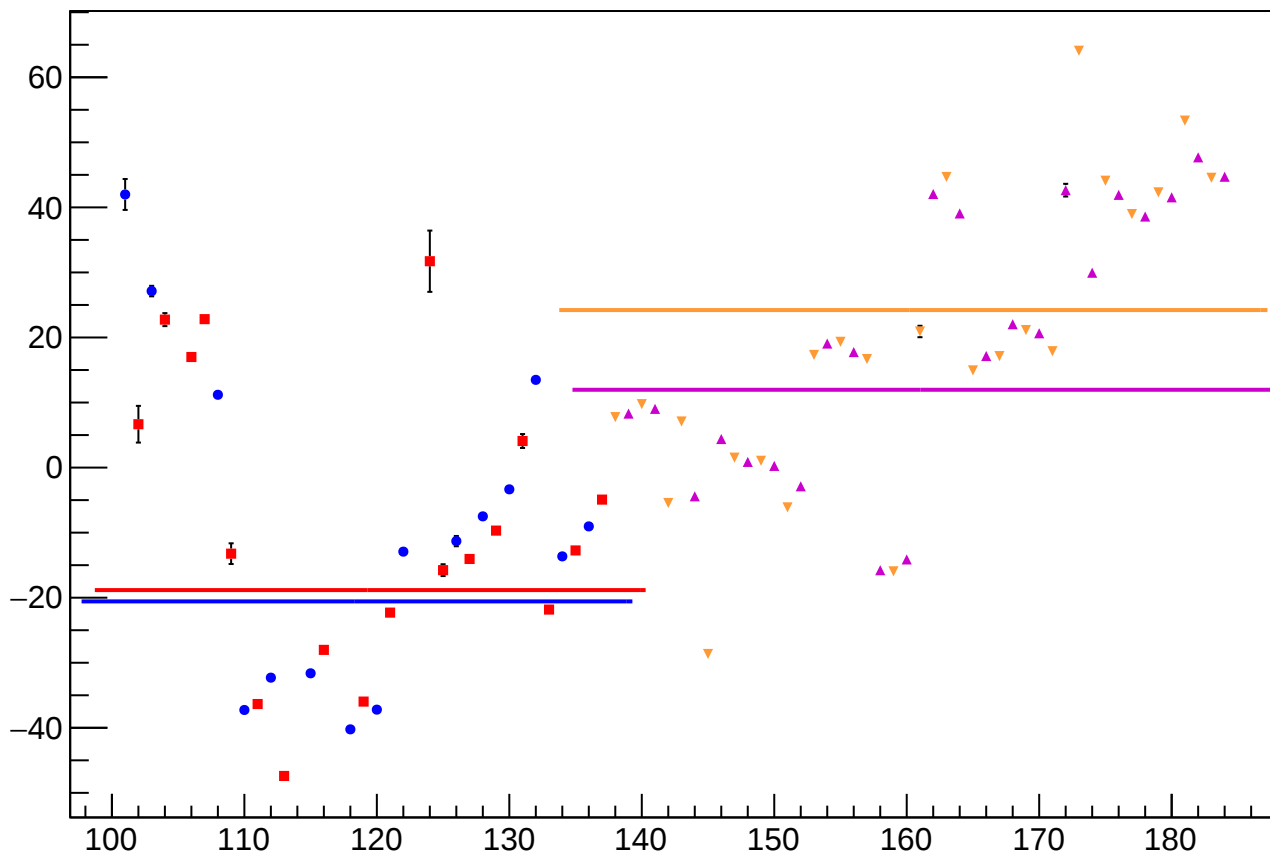
Left In:  $-276.494 \pm 0.022$   $\chi^2/\text{NDF}: 2437121.4/22$

+ sign  $-260.761 \pm 0.020$   $\chi^2/\text{NDF}: 8558484.6/38$

All:  $-262.470 \pm 0.014$   $\chi^2/\text{NDF}: 13120587.4/7$

- sign  $-264.128 \pm 0.020$   $\chi^2/\text{NDF}: 4548045.0/40$

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $24.216 \pm 0.019$   $\chi^2/\text{NDF}$ : 1077331.6/23

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

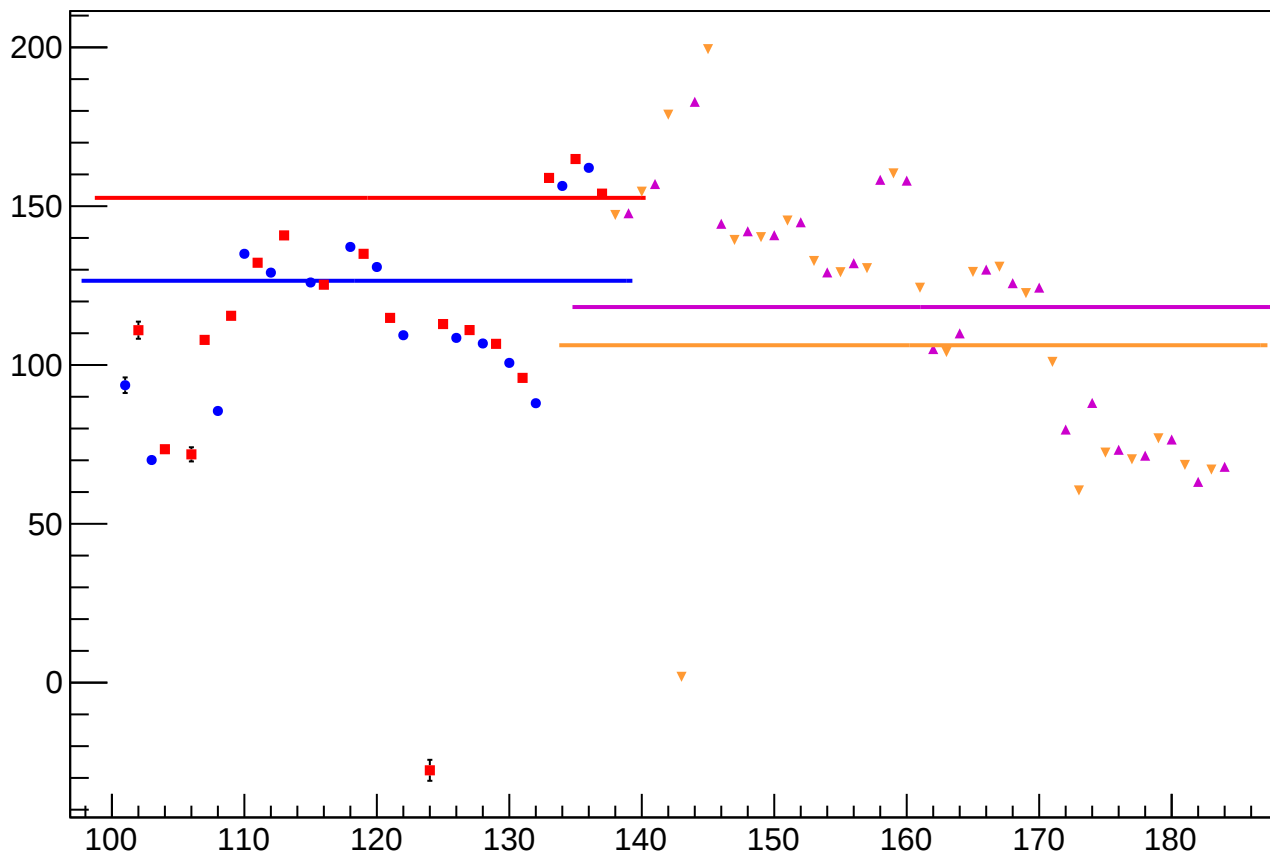
Left In:  $11.963 \pm 0.018$   $\chi^2/\text{NDF}$ : 1338781.7/22

+ sign  $21.168 \pm 0.019$   $\chi^2/\text{NDF}$ : 1508025.4/38

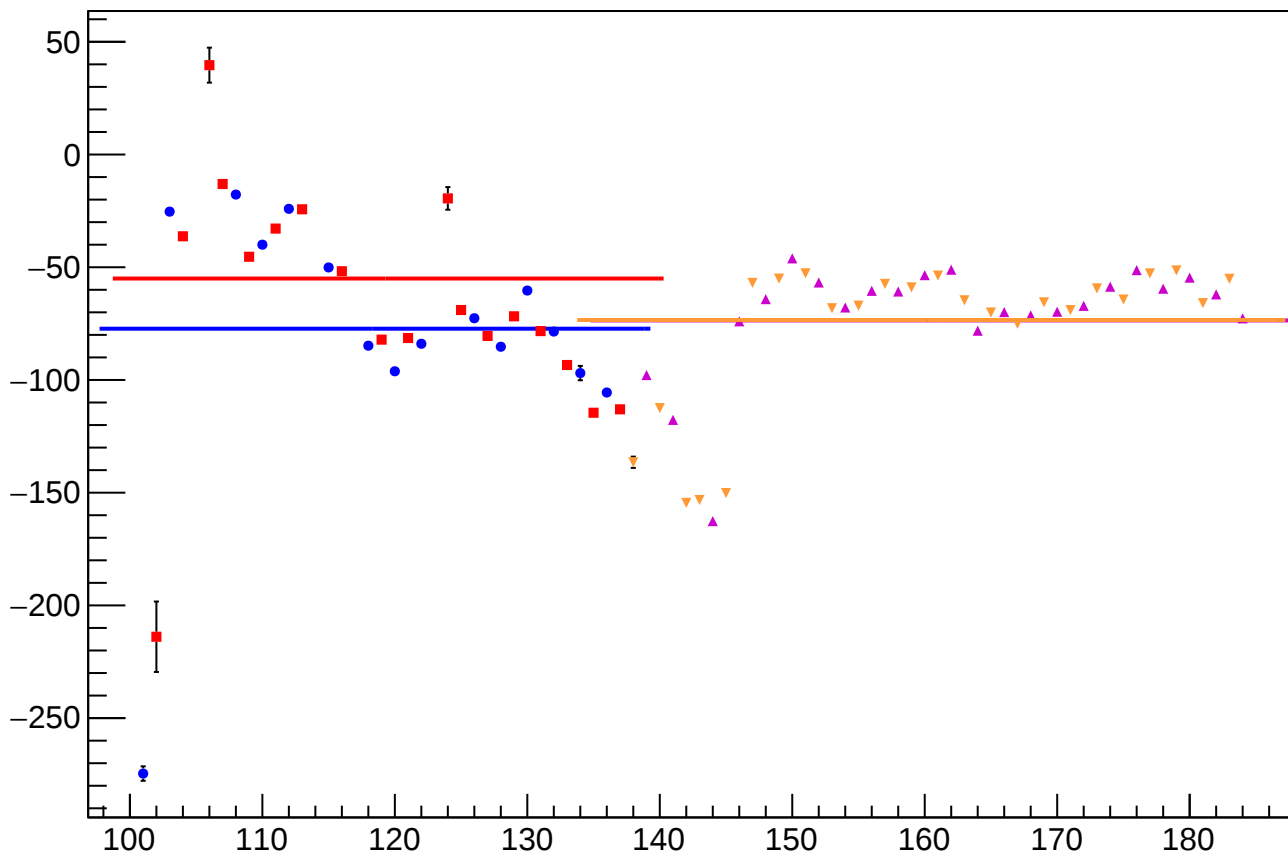
All:  $15.924 \pm 0.013$   $\chi^2/\text{NDF}$ : 3098761.2/79

- sign  $11.127 \pm 0.018$   $\chi^2/\text{NDF}$ : 1438718.8/40

# dit\_atl2\_4eY\_slope vs Slug



# dit\_atr1\_4aX\_slope vs Slug



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}$ : 30356.0/14

Left Out:  $-73.401 \pm 0.113$   $\chi^2/\text{NDF}$ : 65784.4/23

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}$ : 23629.0/17

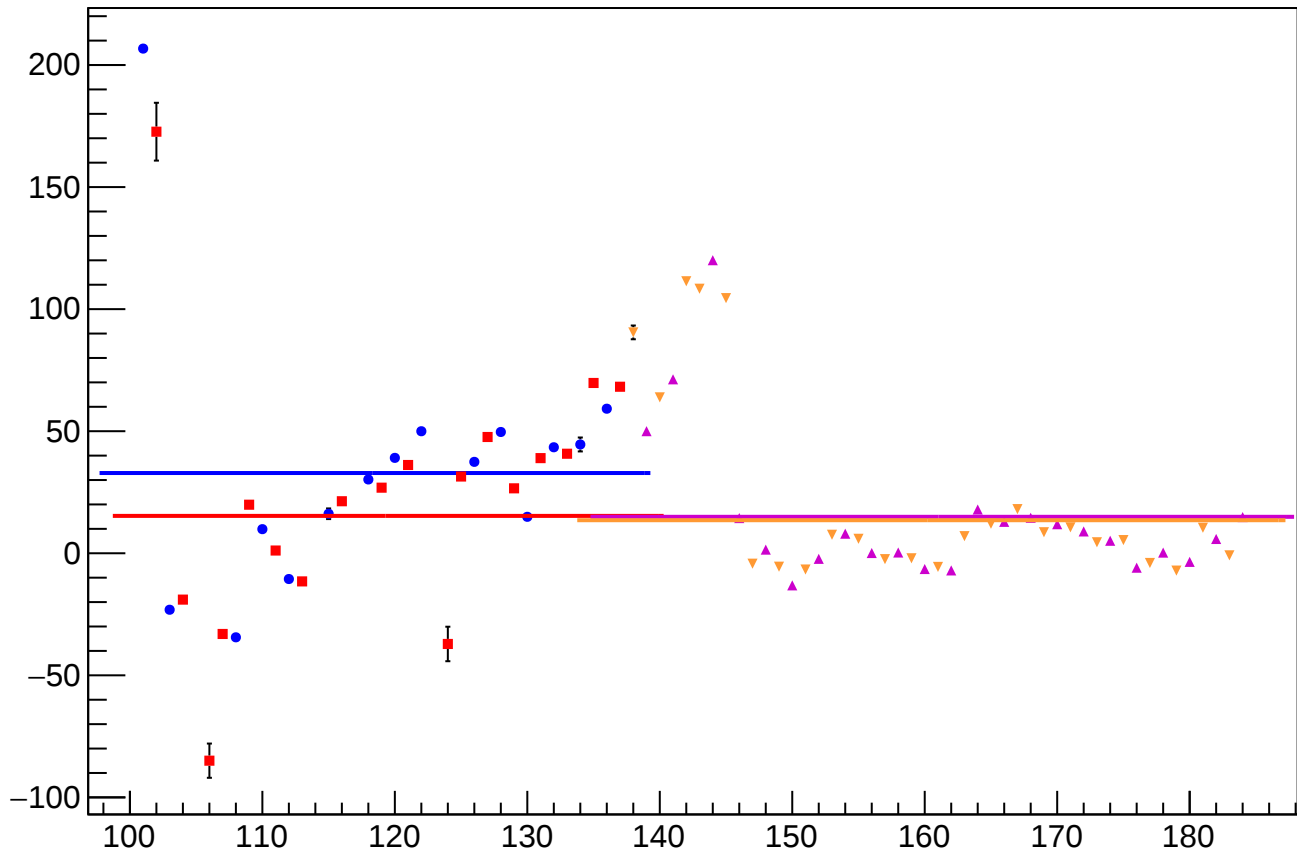
Left In:  $-73.591 \pm 0.110$   $\chi^2/\text{NDF}$ : 68577.9/22

+ sign  $-74.836 \pm 0.089$   $\chi^2/\text{NDF}$ : 96576.6/38

All:  $-72.071 \pm 0.065$   $\chi^2/\text{NDF}$ : 197977.1/79

- sign  $-68.911 \pm 0.095$   $\chi^2/\text{NDF}$ : 99346.7/40

# dit\_atr1\_4eX\_slope vs Slug



Right In:  $32.869 \pm 0.146$   $\chi^2/\text{NDF}: 31393.7/14$

Left Out:  $13.537 \pm 0.098$   $\chi^2/\text{NDF}: 96668.6/23$

Right Out:  $15.309 \pm 0.210$   $\chi^2/\text{NDF}: 16746.0/17$

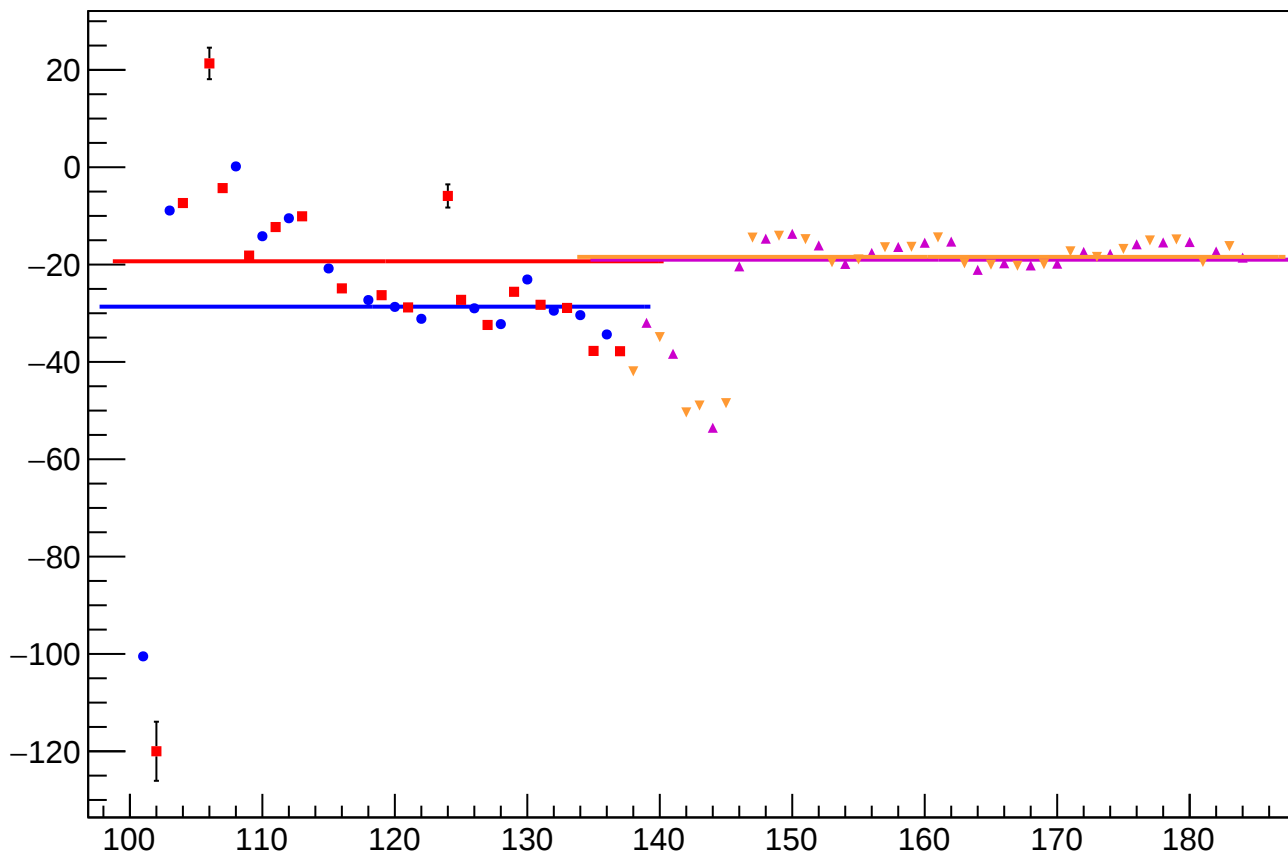
Left In:  $14.934 \pm 0.098$   $\chi^2/\text{NDF}: 96635.9/22$

+ sign  $19.582 \pm 0.082$   $\chi^2/\text{NDF}: 140109.4/38$

All:  $17.483 \pm 0.060$   $\chi^2/\text{NDF}: 254936.1/79$

- sign  $15.001 \pm 0.089$   $\chi^2/\text{NDF}: 113384.5/40$

# dit\_atr1\_11X12X\_slope vs Slug



Right In: -28.648+/-0.034  $\chi^2/\text{NDF}$ : 113441.9/14

Left Out: -18.420+/-0.013  $\chi^2/\text{NDF}$ : 233958.1/23

Right Out: -19.325+/-0.039  $\chi^2/\text{NDF}$ : 56579.1/17

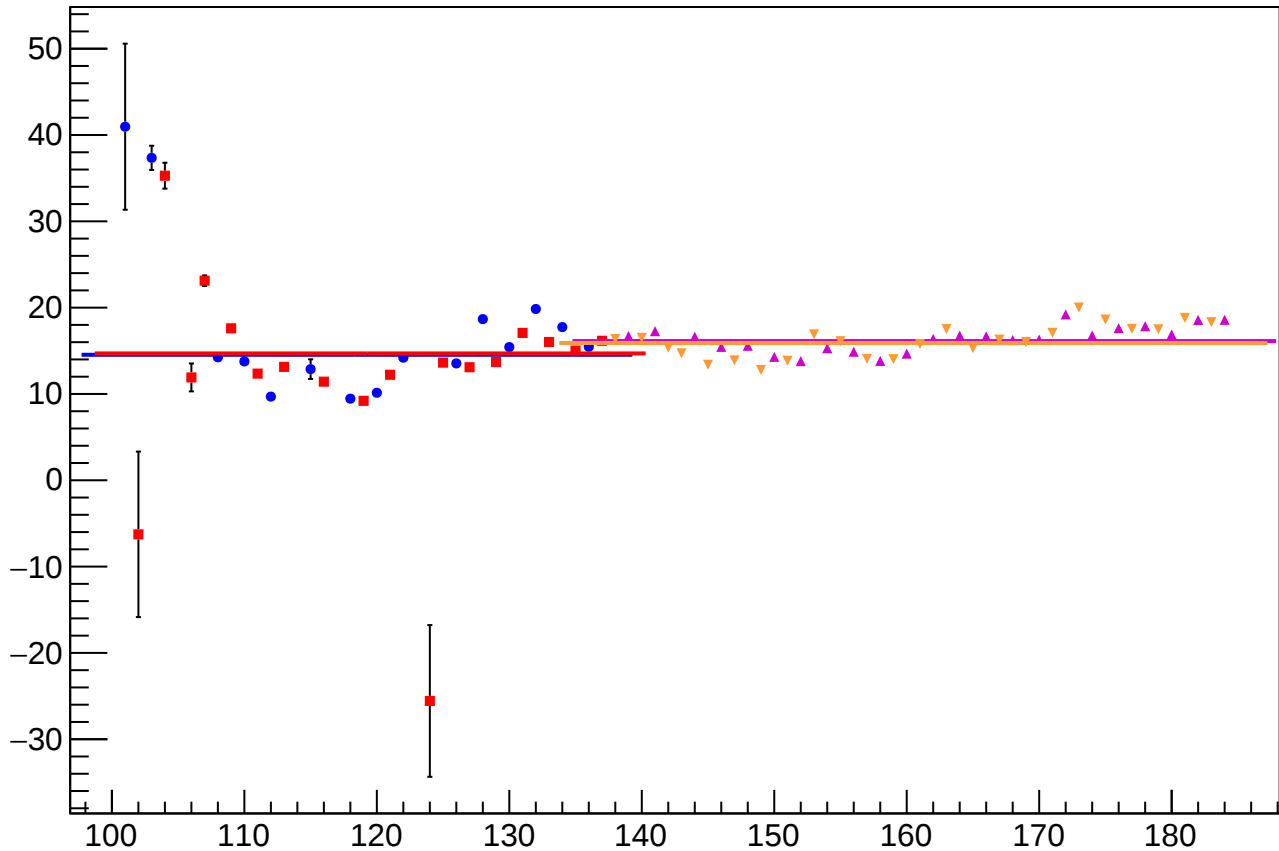
Left In: -18.993+/-0.014  $\chi^2/\text{NDF}$ : 207001.6/22

+ sign -19.702+/-0.012  $\chi^2/\text{NDF}$ : 425323.7/38

All: -19.393+/-0.009  $\chi^2/\text{NDF}$ : 690375.6/79

- sign -19.030+/-0.013  $\chi^2/\text{NDF}$ : 263643.5/40

# dit\_atr1\_4aY\_slope vs Slug



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 15.905 $\pm$ 0.014  $\chi^2$ /NDF:13263.3/23

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

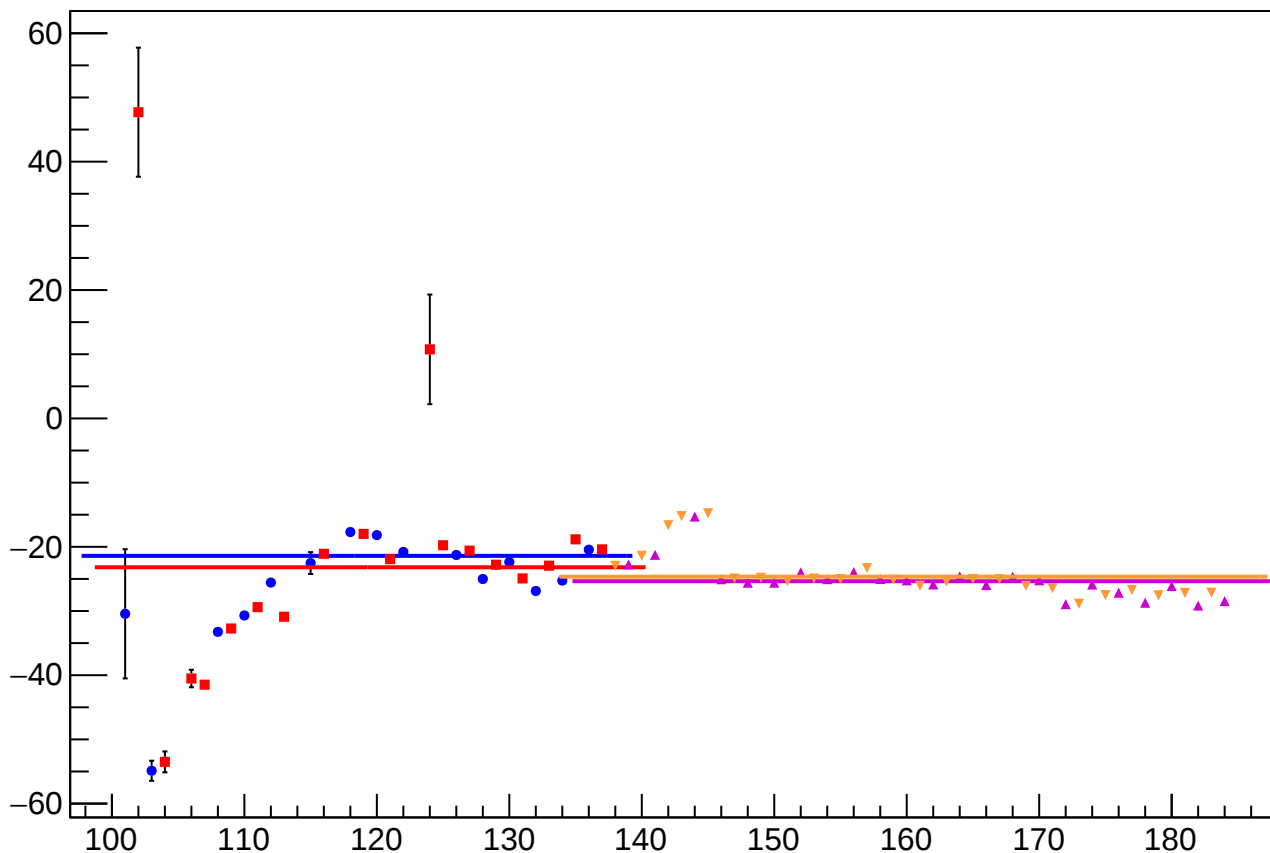
Left In: 16.127 $\pm$ 0.013  $\chi^2$ /NDF:12045.9/22

+ sign 15.664 $\pm$ 0.013  $\chi^2$ /NDF: 27064.5/38

All: 15.845 $\pm$ 0.009  $\chi^2$ /NDF: 42147.6/79

- sign 16.015 $\pm$ 0.012  $\chi^2$ /NDF: 14677.2/40

# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-24.650 \pm 0.016$   $\chi^2/\text{NDF}: 43859.4/23$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

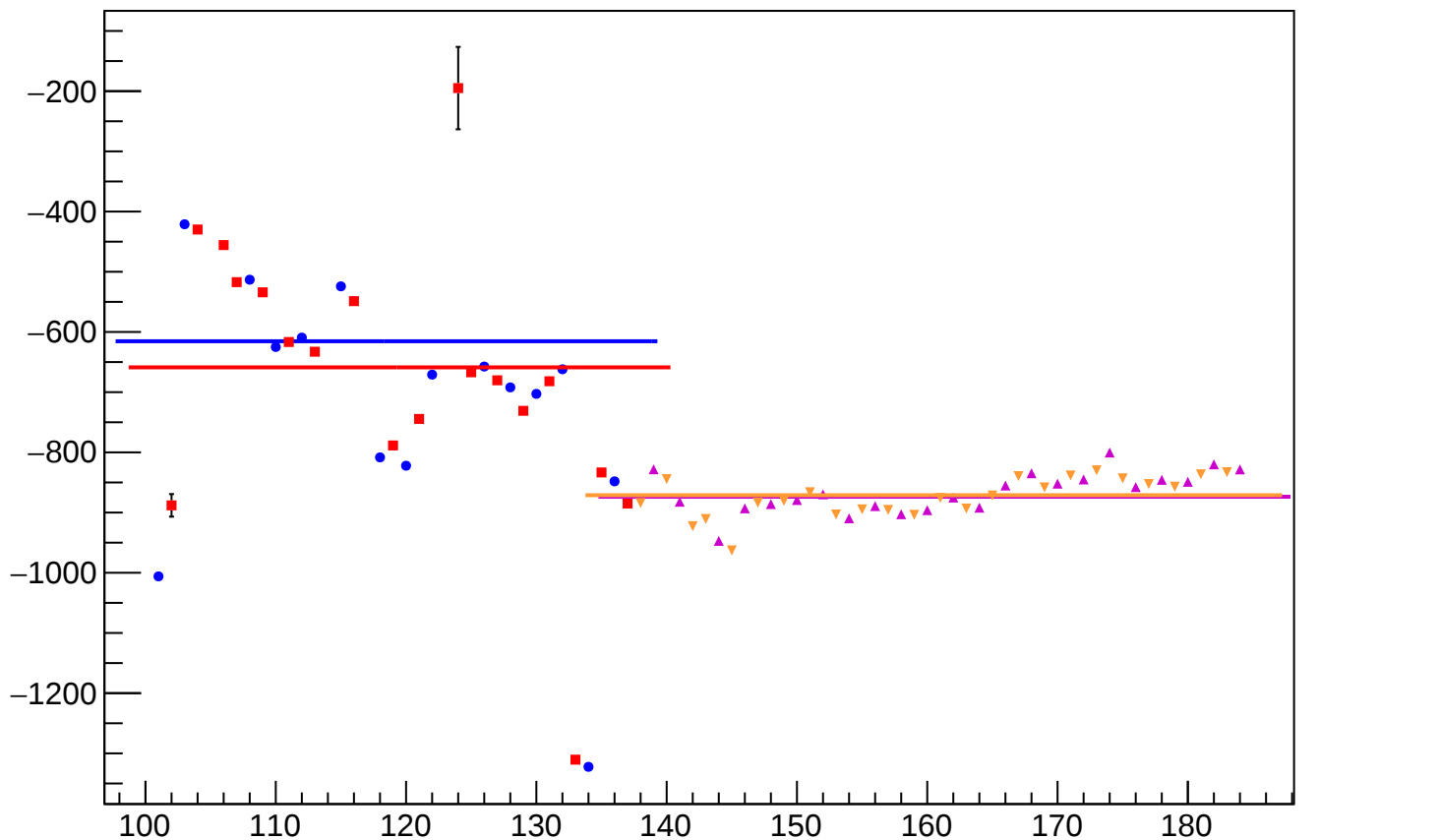
Left In:  $-25.356 \pm 0.016$   $\chi^2/\text{NDF}: 16913.2/22$

+ sign  $-24.104 \pm 0.015$   $\chi^2/\text{NDF}: 60463.6/38$

All:  $-24.615 \pm 0.011$   $\chi^2/\text{NDF}: 90694.9/79$

- sign  $-25.165 \pm 0.015$   $\chi^2/\text{NDF}: 27684.4/40$

# dit\_atr2\_4aX\_slope vs Slug



Right In: -615.419+/-0.238  $\chi^2/\text{NDF}$ : 382819.1/14

Left Out: -871.166+/-0.128  $\chi^2/\text{NDF}$ : 49892.1/23

Right Out: -658.787+/-0.256  $\chi^2/\text{NDF}$ : 385262.6/17

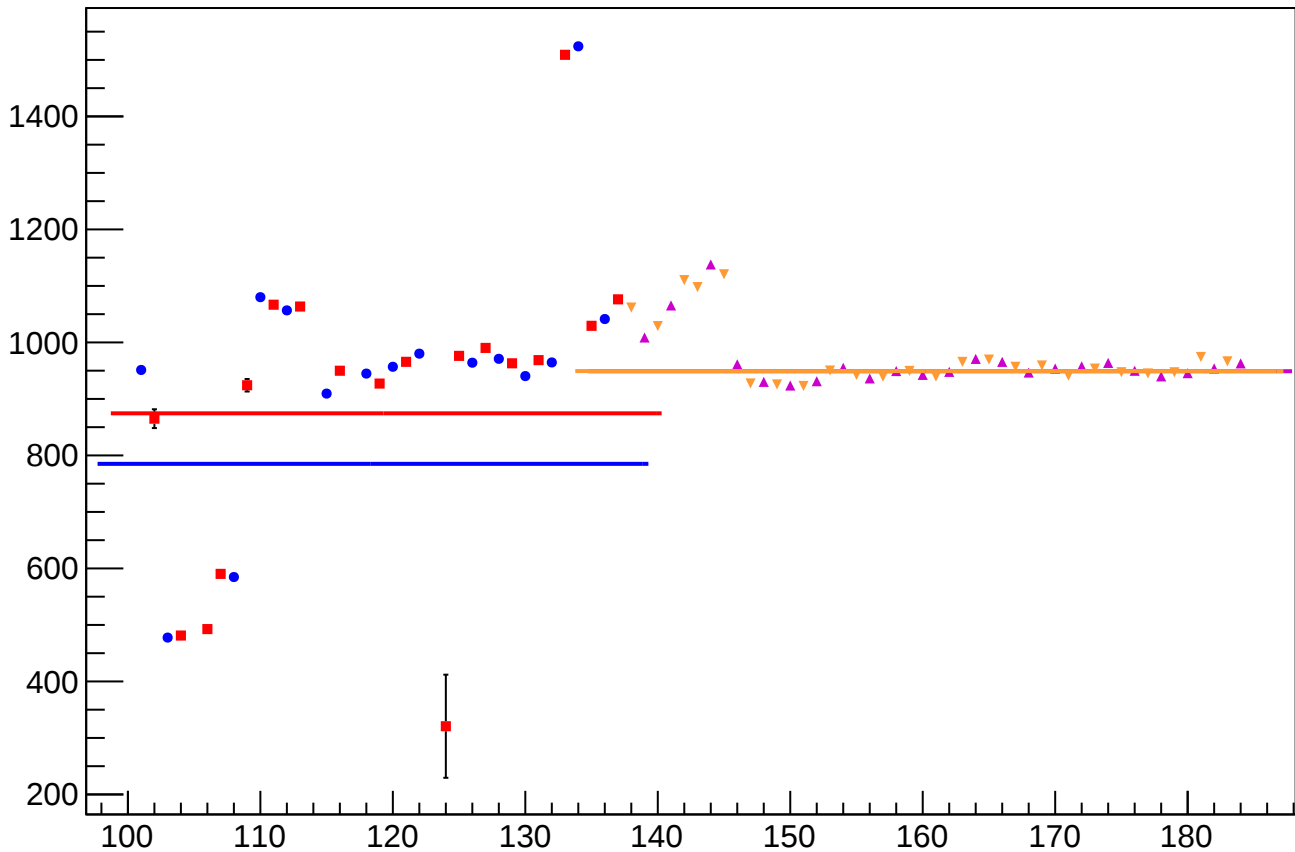
Left In: -873.739+/-0.123  $\chi^2/\text{NDF}$ : 58452.7/22

+ sign -813.588+/-0.113  $\chi^2/\text{NDF}$ : 1330439.9/38

All: -823.610+/-0.079  $\chi^2/\text{NDF}$ : 2360942.8/79

- sign -833.344+/-0.111  $\chi^2/\text{NDF}$ : 1014924.0/40

# dit\_atr2\_4eX\_slope vs Slug



Right In: 785.095+/-0.228  $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 949.270+/-0.102  $\chi^2/\text{NDF}$ : 74403.1/23

Right Out: 874.516+/-0.261  $\chi^2/\text{NDF}$ : 842565.5/17

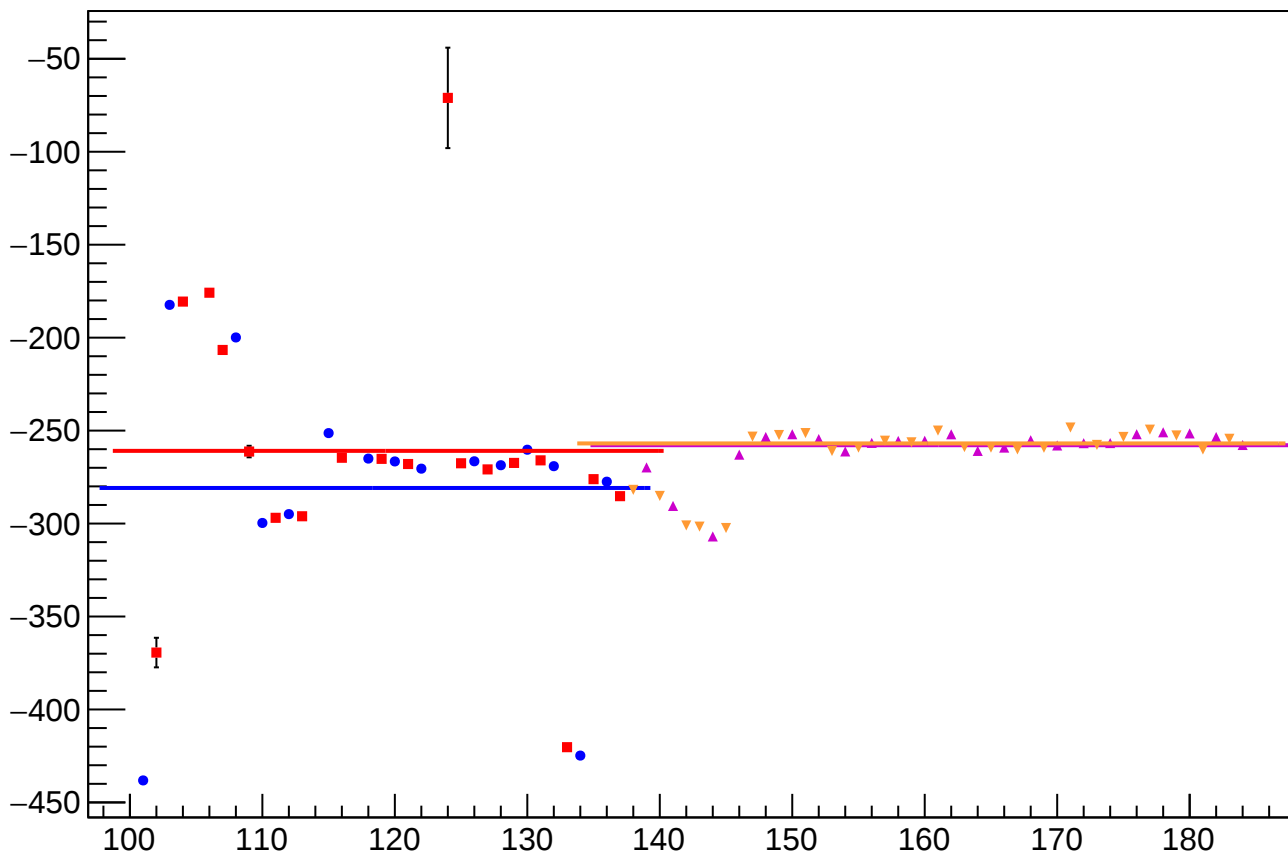
Left In: 949.032+/-0.102  $\chi^2/\text{NDF}$ : 76875.5/22

+ sign 921.891+/-0.093  $\chi^2/\text{NDF}$ : 1392430.4/38

All: 930.300+/-0.067  $\chi^2/\text{NDF}$ : 2399088.4/79

- sign 939.112+/-0.095  $\chi^2/\text{NDF}$ : 989960.3/40

# dit\_atr2\_11X12X\_slope vs Slug



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-256.892 \pm 0.019$   $\chi^2/\text{NDF}: 184458.9/23$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

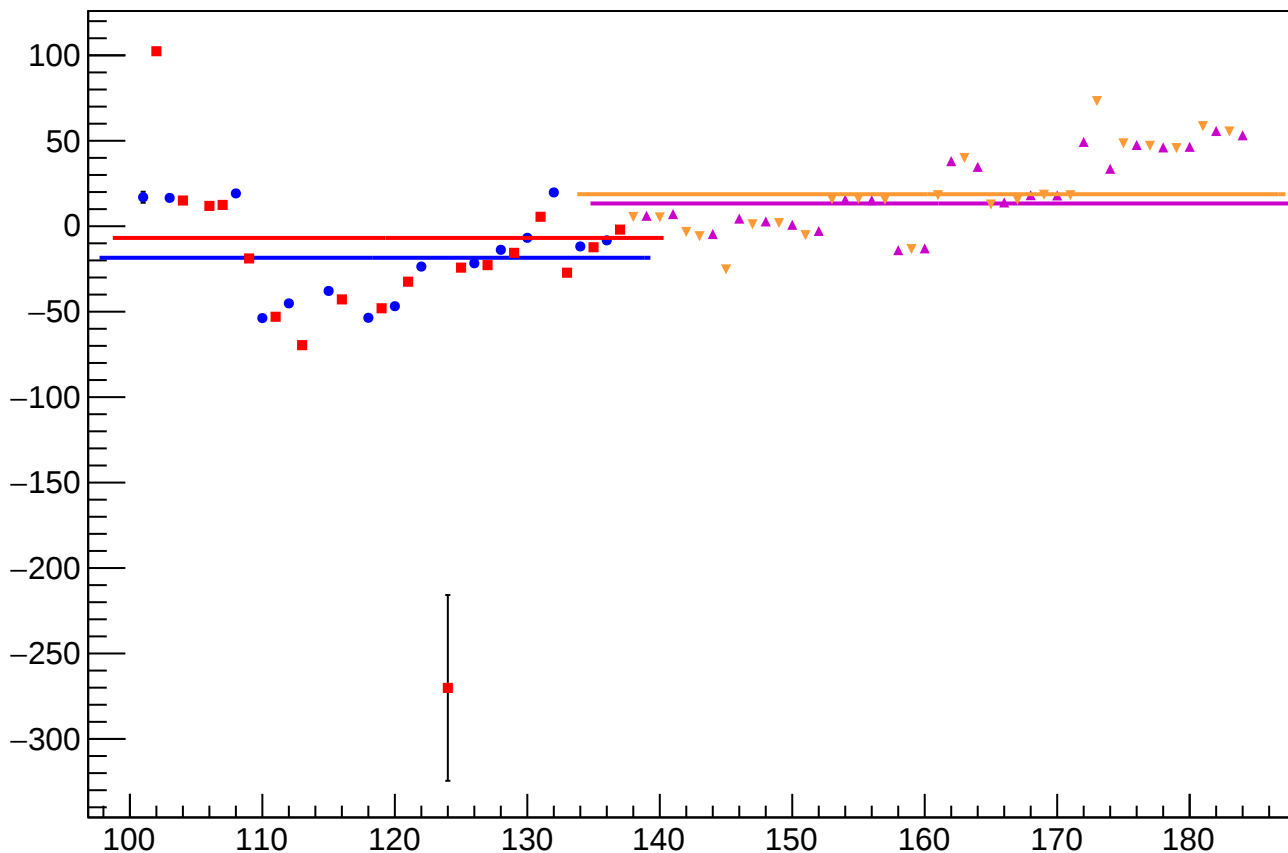
Left In:  $-257.860 \pm 0.019$   $\chi^2/\text{NDF}: 208410.5/22$

+ sign  $-259.216 \pm 0.018$   $\chi^2/\text{NDF}: 1209435.8/38$

All:  $-258.635 \pm 0.013$   $\chi^2/\text{NDF}: 1769439.2/79$

- sign  $-258.074 \pm 0.018$   $\chi^2/\text{NDF}: 558006.3/40$

# dit\_atr2\_4aY\_slope vs Slug



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}$ : 46574.6/14

Left Out:  $18.734 \pm 0.019$   $\chi^2/\text{NDF}$ : 1270961.0/23

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}$ : 50023.0/17

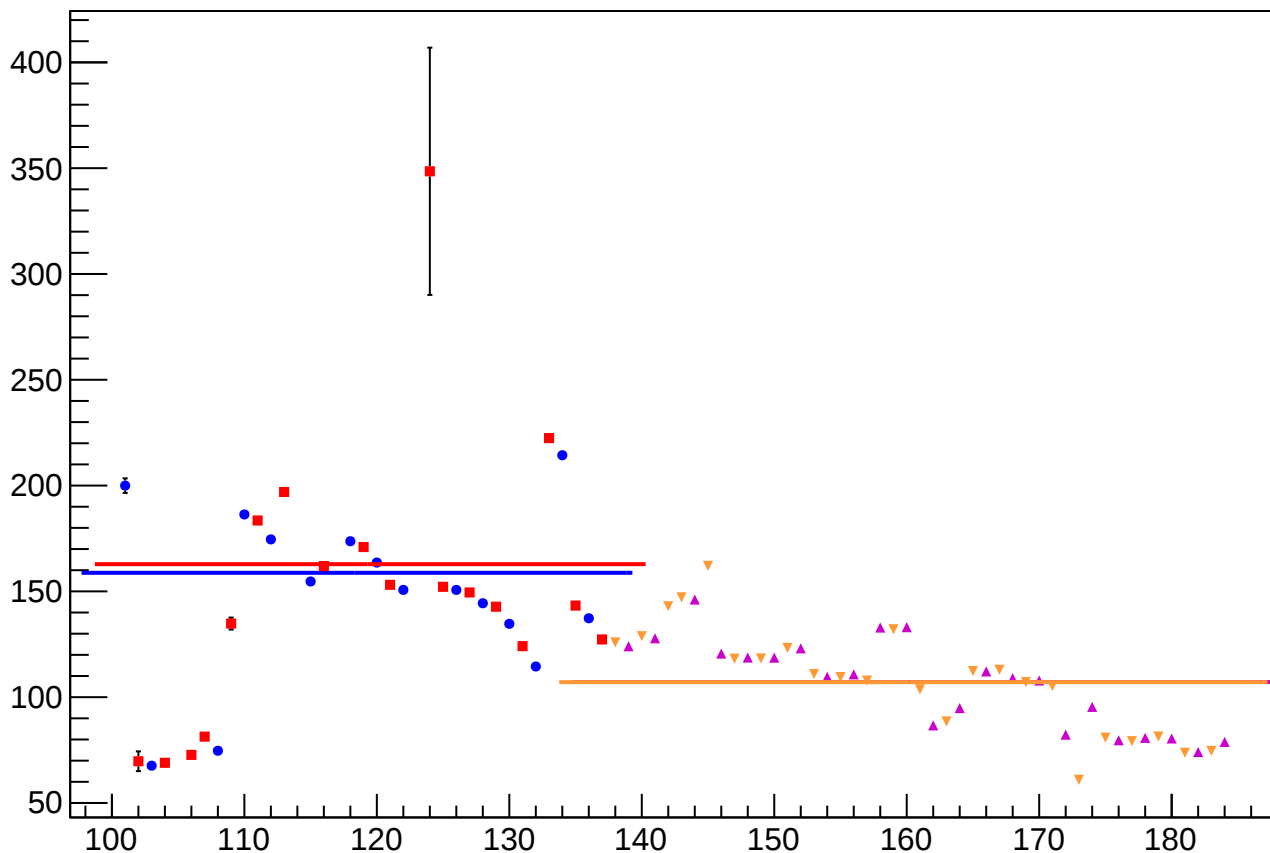
Left In:  $13.314 \pm 0.019$   $\chi^2/\text{NDF}$ : 1023799.5/22

+ sign  $17.221 \pm 0.018$   $\chi^2/\text{NDF}$ : 1476775.6/38

All:  $14.422 \pm 0.013$   $\chi^2/\text{NDF}$ : 2685639.1/79

- sign  $-11.746 \pm 0.018$   $\chi^2/\text{NDF}$ : 1163685.3/40

# dit\_atr2\_4eY\_slope vs Slug



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 107.102 $\pm$ 0.023  $\chi^2$ /NDF: 654702.0/23

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

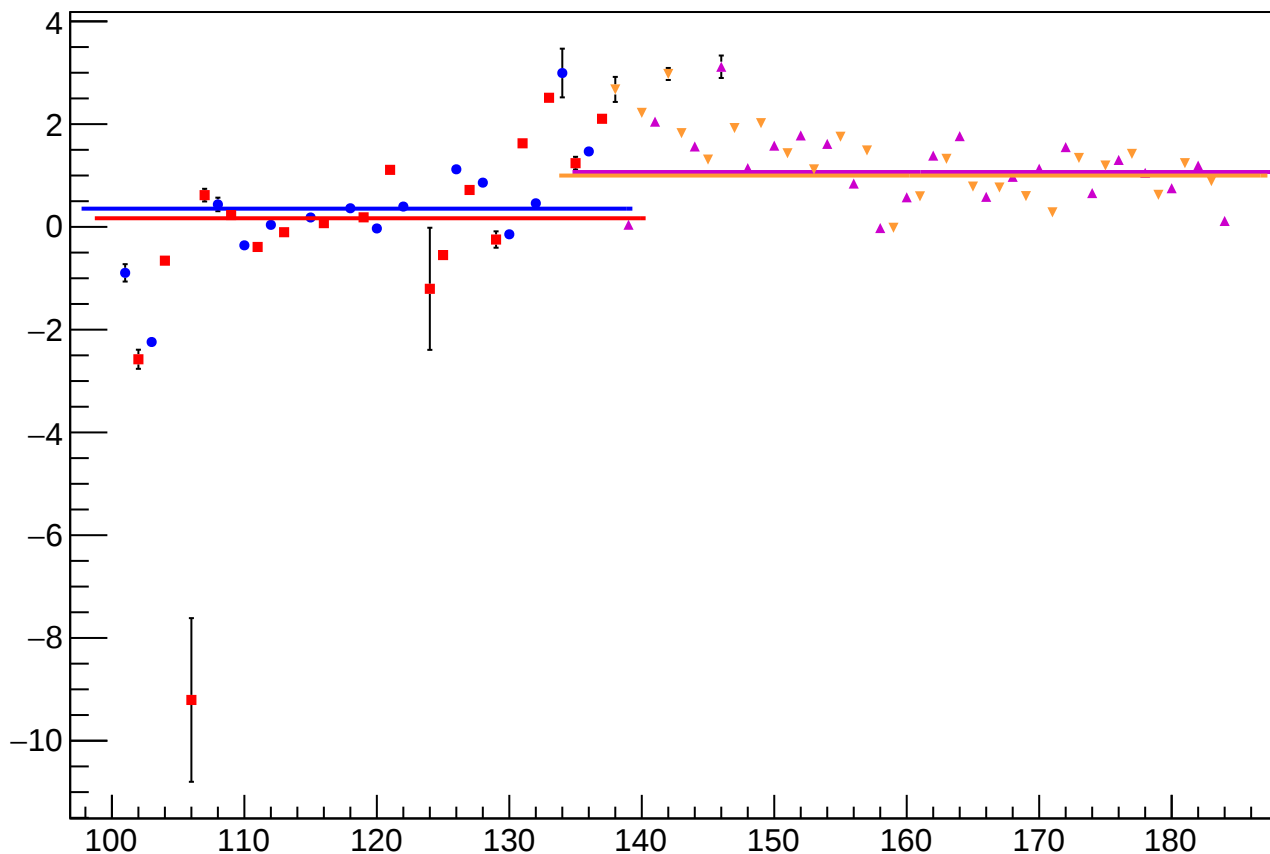
Left In: 107.162 $\pm$ 0.020  $\chi^2$ /NDF: 786041.1/22

+ sign 110.292 $\pm$ 0.022  $\chi^2$ /NDF: 1134930.7/38

All: 109.866 $\pm$ 0.014  $\chi^2$ /NDF: 2419188.1/79

- sign 109.538 $\pm$ 0.019  $\chi^2$ /NDF: 1283589.5/40

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}$ : 4011.3/14

Left Out:  $0.999 \pm 0.007$   $\chi^2/\text{NDF}$ : 6512.9/23

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}$ : 4588.1/17

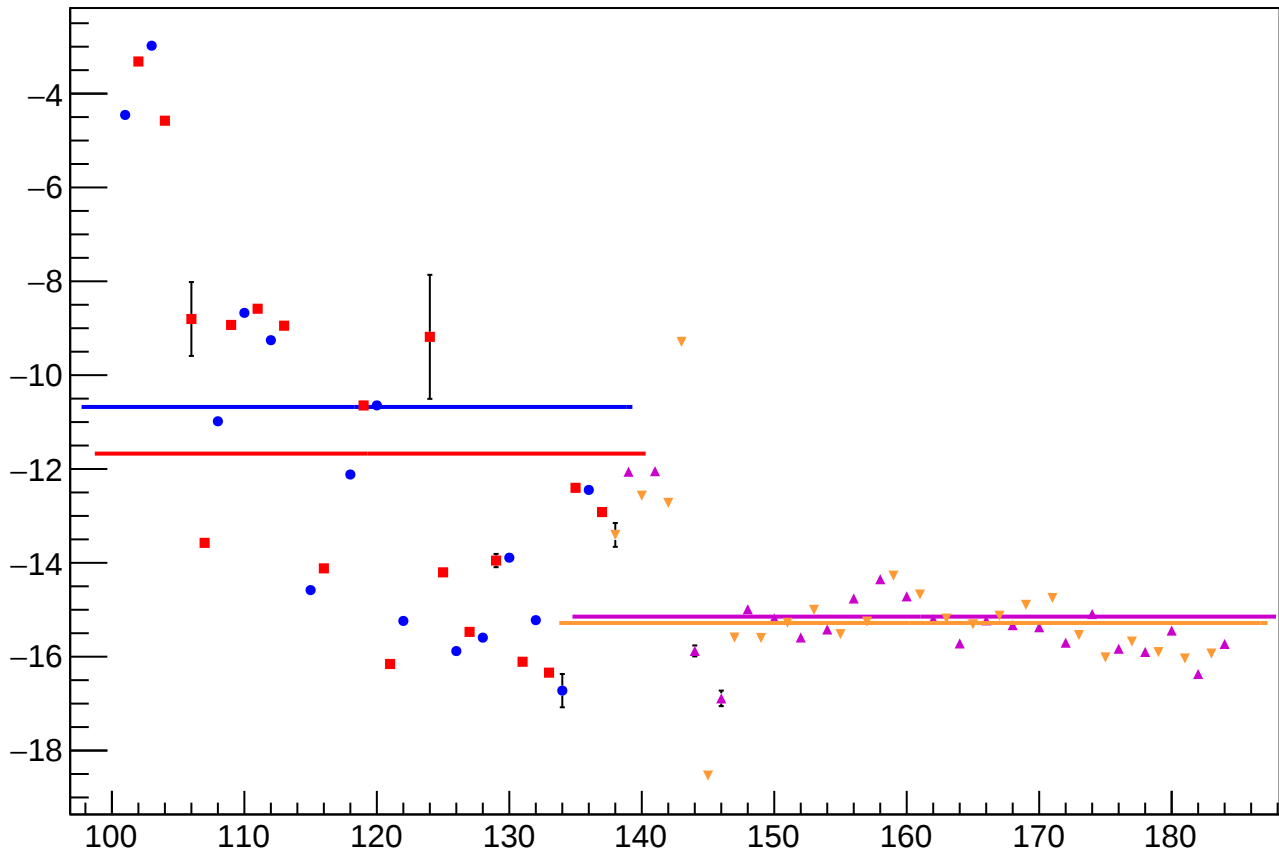
Left In:  $1.068 \pm 0.006$   $\chi^2/\text{NDF}$ : 7383.3/22

+ sign  $0.838 \pm 0.006$   $\chi^2/\text{NDF}$ : 12772.5/38

All:  $0.752 \pm 0.004$   $\chi^2/\text{NDF}$ : 33183.2/79

- sign  $0.692 \pm 0.005$   $\chi^2/\text{NDF}$ : 20052.7/40

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-15.281 \pm 0.005$   $\chi^2/\text{NDF}: 40702.2/23$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

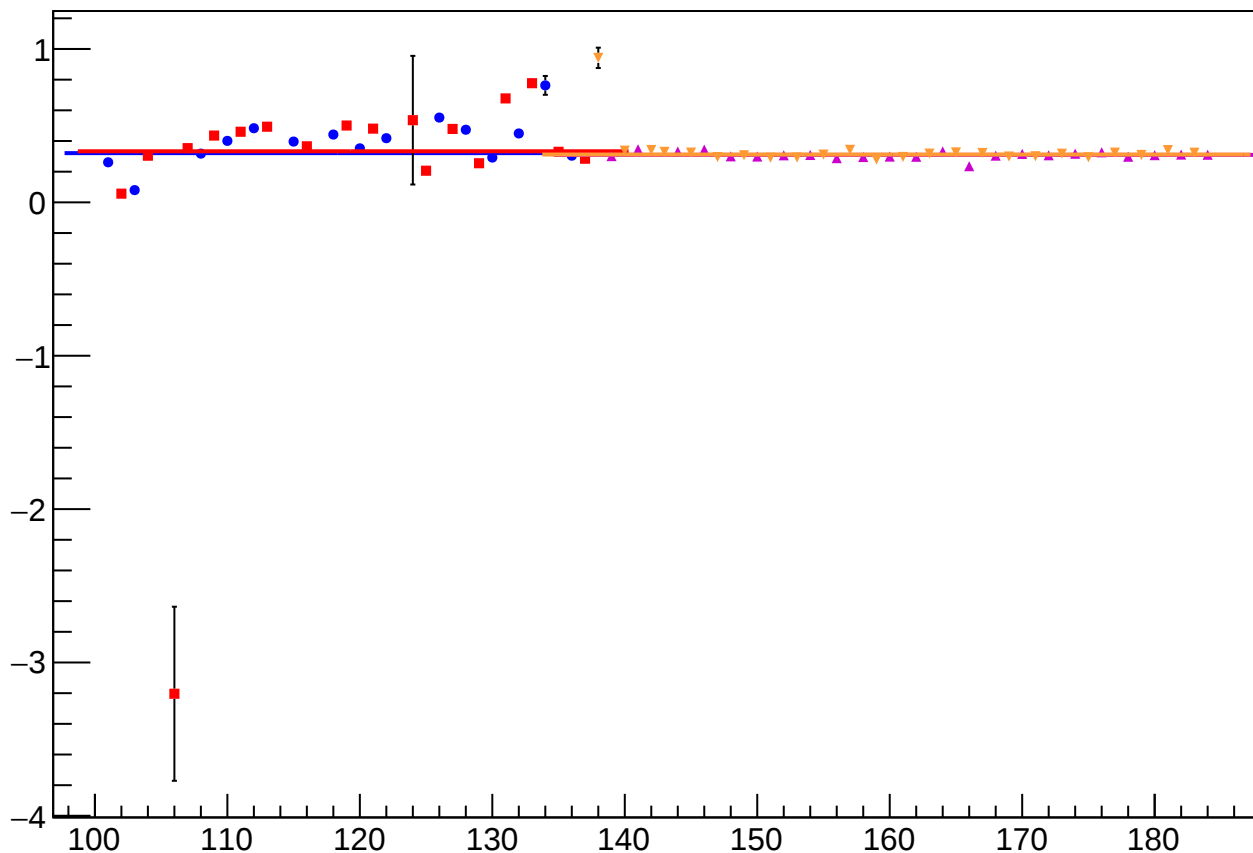
Left In:  $-15.146 \pm 0.006$   $\chi^2/\text{NDF}: 15634.6/22$

+ sign  $-14.279 \pm 0.005$   $\chi^2/\text{NDF}: 424415.1/38$

All:  $-14.362 \pm 0.004$   $\chi^2/\text{NDF}: 619967.4/79$

- sign  $-14.458 \pm 0.005$   $\chi^2/\text{NDF}: 194907.5/40$

# dit\_sam1\_11X12X\_slope vs Slug



Right In: 0.321 $\pm$ 0.001  $\chi^2$ /NDF: 4017.7/14

Left Out: 0.312 $\pm$ 0.000  $\chi^2$ /NDF: 5414.1/23

Right Out: 0.333 $\pm$ 0.001  $\chi^2$ /NDF: 4170.0/17

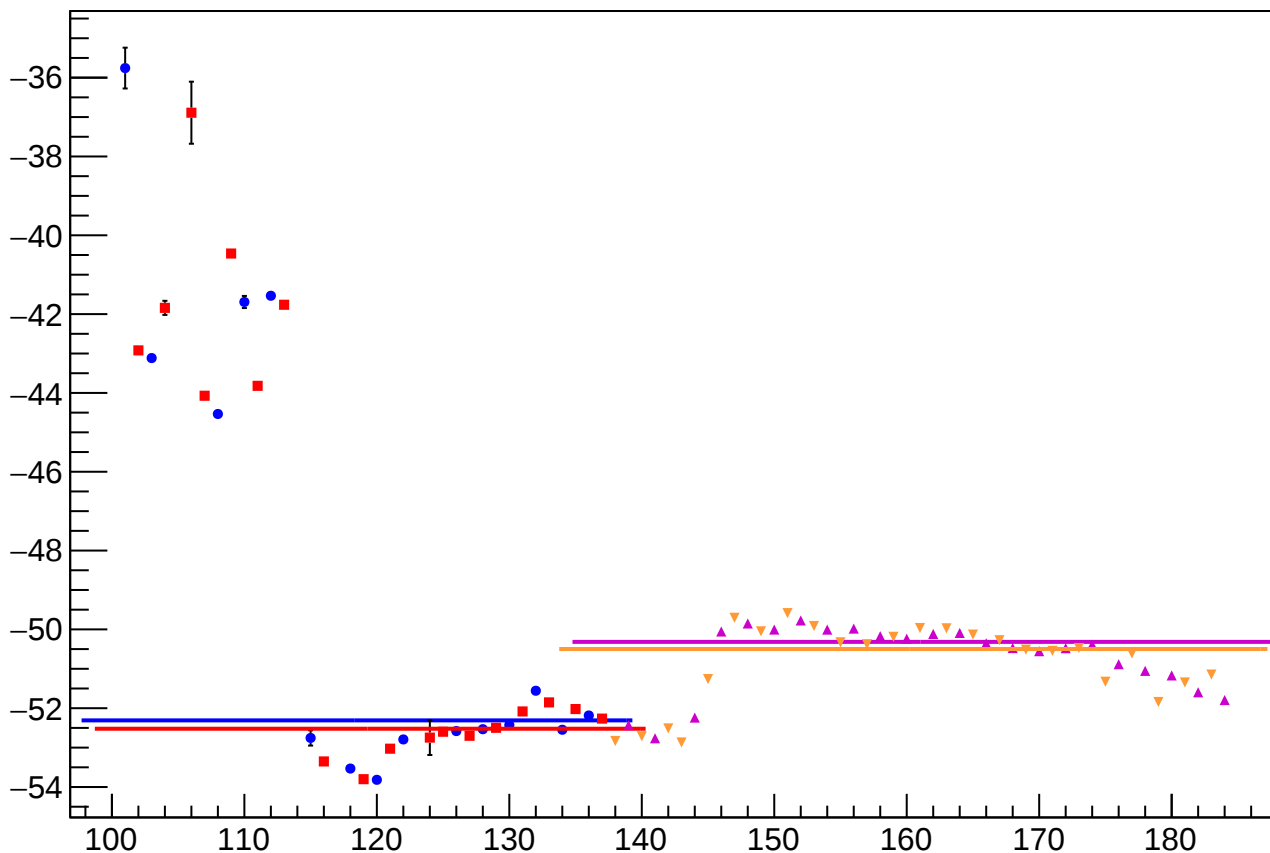
Left In: 0.309 $\pm$ 0.000  $\chi^2$ /NDF: 2994.1/22

+ sign 0.312 $\pm$ 0.000  $\chi^2$ /NDF: 9521.3/38

All: 0.311 $\pm$ 0.000  $\chi^2$ /NDF: 17073.3/79

- sign 0.310 $\pm$ 0.000  $\chi^2$ /NDF: 7508.1/40

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}: 53459.2/14$

Left Out:  $-50.498 \pm 0.001$   $\chi^2/\text{NDF}: 275427.5/23$

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}: 76616.3/17$

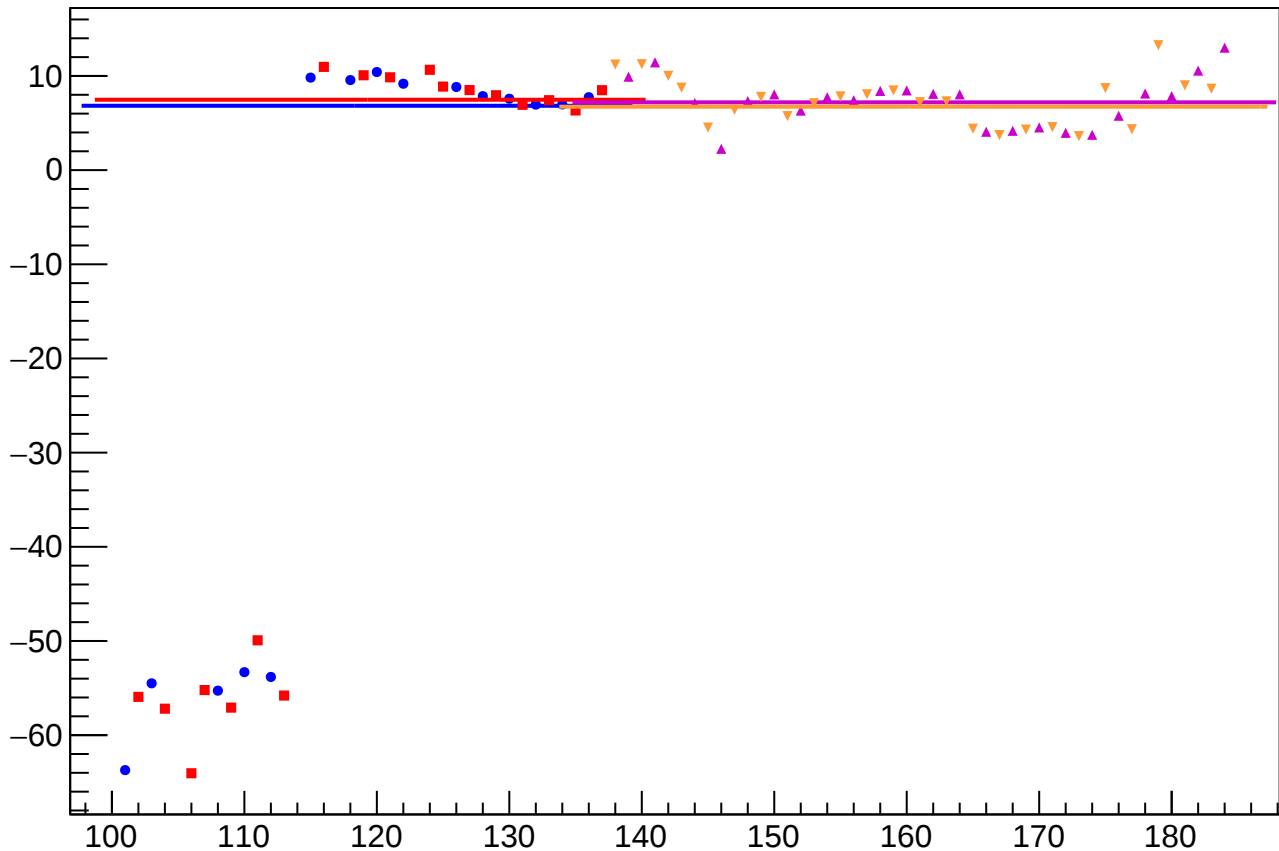
Left In:  $-50.317 \pm 0.001$   $\chi^2/\text{NDF}: 186234.6/22$

+ sign  $-50.676 \pm 0.001$   $\chi^2/\text{NDF}: 480671.4/38$

All:  $-50.565 \pm 0.001$   $\chi^2/\text{NDF}: 967487.1/79$

- sign  $-50.477 \pm 0.001$   $\chi^2/\text{NDF}: 475283.3/40$

# dit\_sam1\_4eY\_slope vs Slug



Right In: 6.834 $\pm$ 0.005  $\chi^2$ /NDF: 990576.4/14

Left Out: 6.734 $\pm$ 0.004  $\chi^2$ /NDF: 335883.2/23

Right Out: 7.474 $\pm$ 0.009  $\chi^2$ /NDF: 1195498.7/17

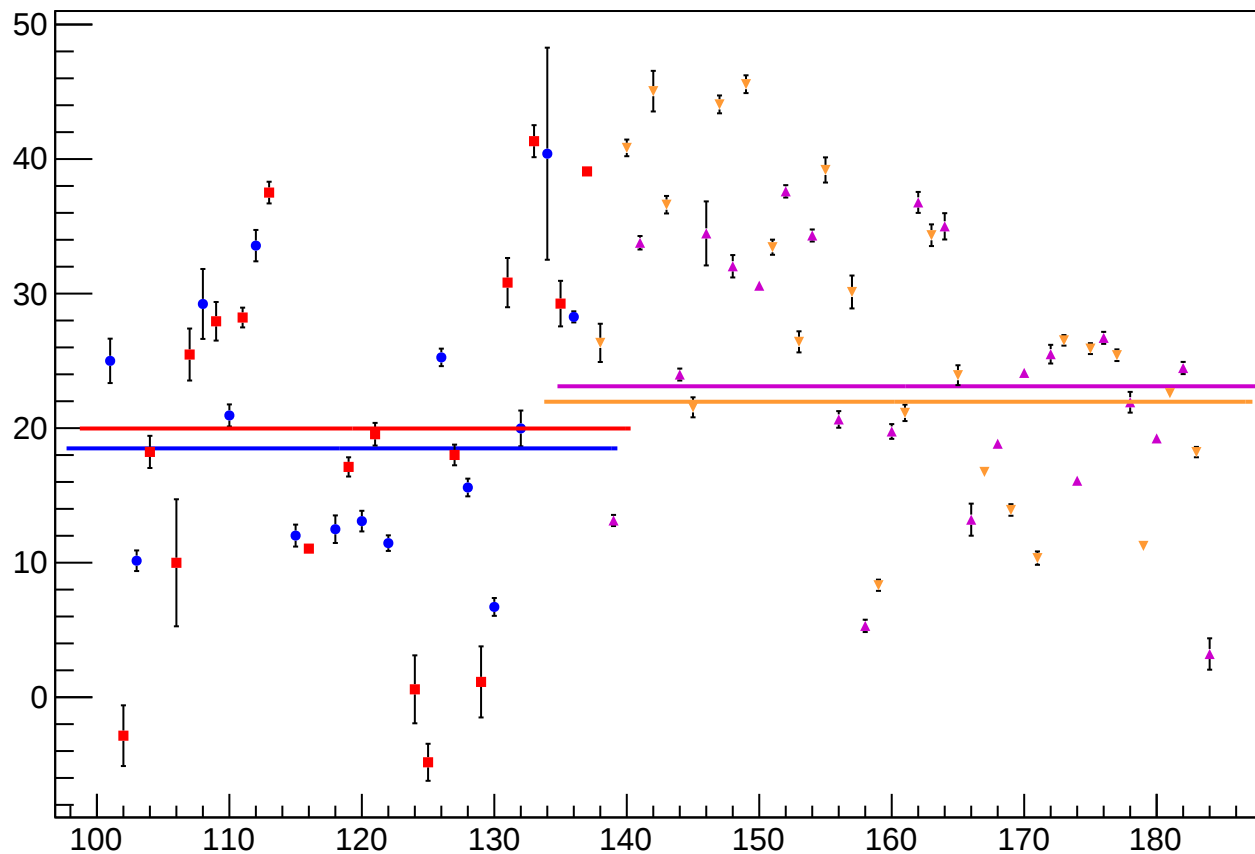
Left In: 7.199 $\pm$ 0.003  $\chi^2$ /NDF: 202969.6/22

+ sign 6.769 $\pm$ 0.003  $\chi^2$ /NDF: 1326713.7/38

All: 6.983 $\pm$ 0.002  $\chi^2$ /NDF: 2736961.4/79

- sign 7.233 $\pm$ 0.003  $\chi^2$ /NDF: 1399236.5/40

# dit\_sam2\_4aX\_slope vs Slug



Right In: 18.496 $\pm$ 0.200  $\chi^2$ /NDF: 1636.7/14

Left Out: 21.963 $\pm$ 0.101  $\chi^2$ /NDF:8944.2/23

Right Out: 19.974 $\pm$ 0.130  $\chi^2$ /NDF: 9201.3/17

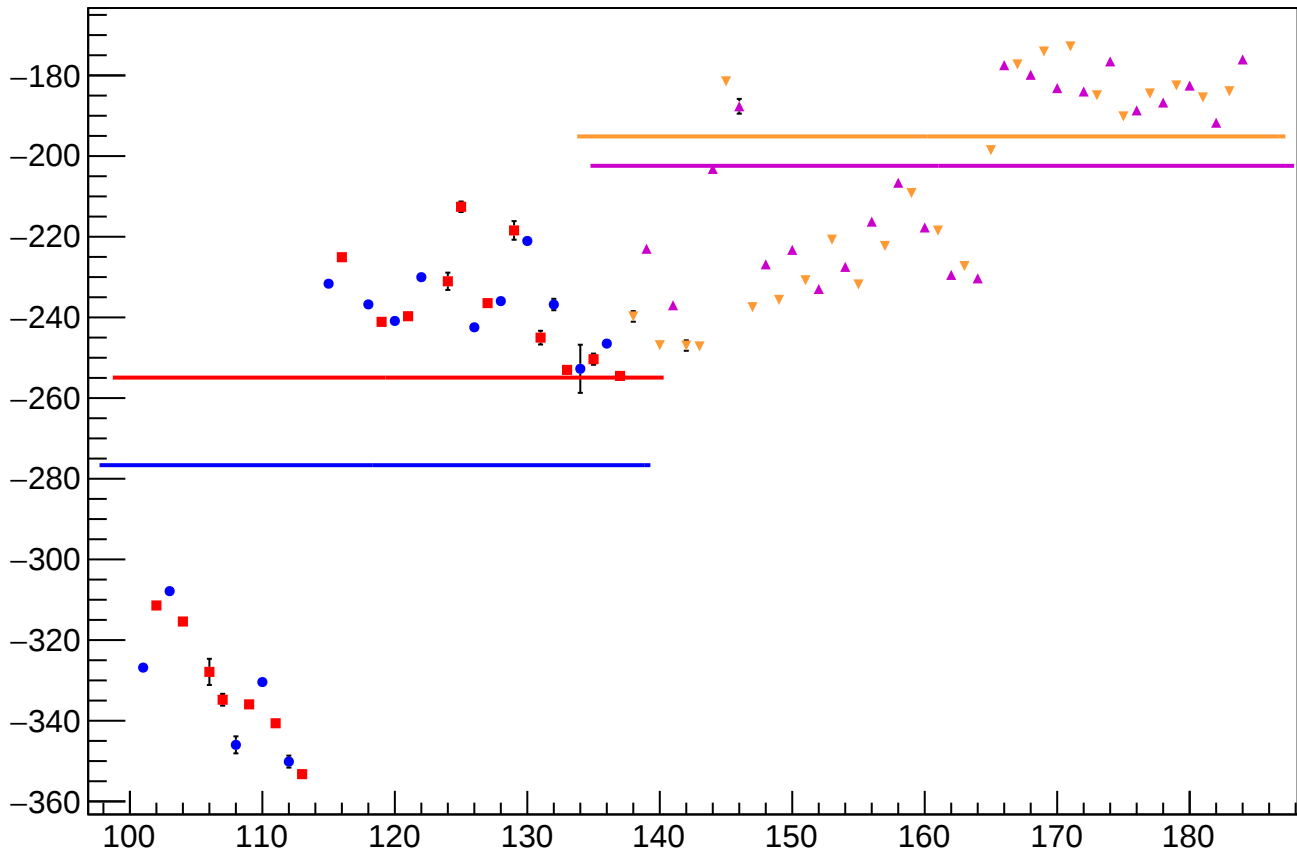
Left In: 23.111 $\pm$ 0.097  $\chi^2$ /NDF:6631.9/22

+ sign 21.262 $\pm$ 0.090  $\chi^2$ /NDF: 10820.5/38

All: 21.678 $\pm$ 0.059  $\chi^2$ /NDF: 27064.4/79

- sign 21.990 $\pm$ 0.078  $\chi^2$ /NDF: 16206.5/40

# dit\_sam2\_4eX\_slope vs Slug



Right In:  $-276.636 \pm 0.148$   $\chi^2/\text{NDF}: 77119.6/14$

Left Out:  $-195.126 \pm 0.084$   $\chi^2/\text{NDF}: 70659.4/23$

Right Out:  $-254.921 \pm 0.071$   $\chi^2/\text{NDF}: 71945.8/17$

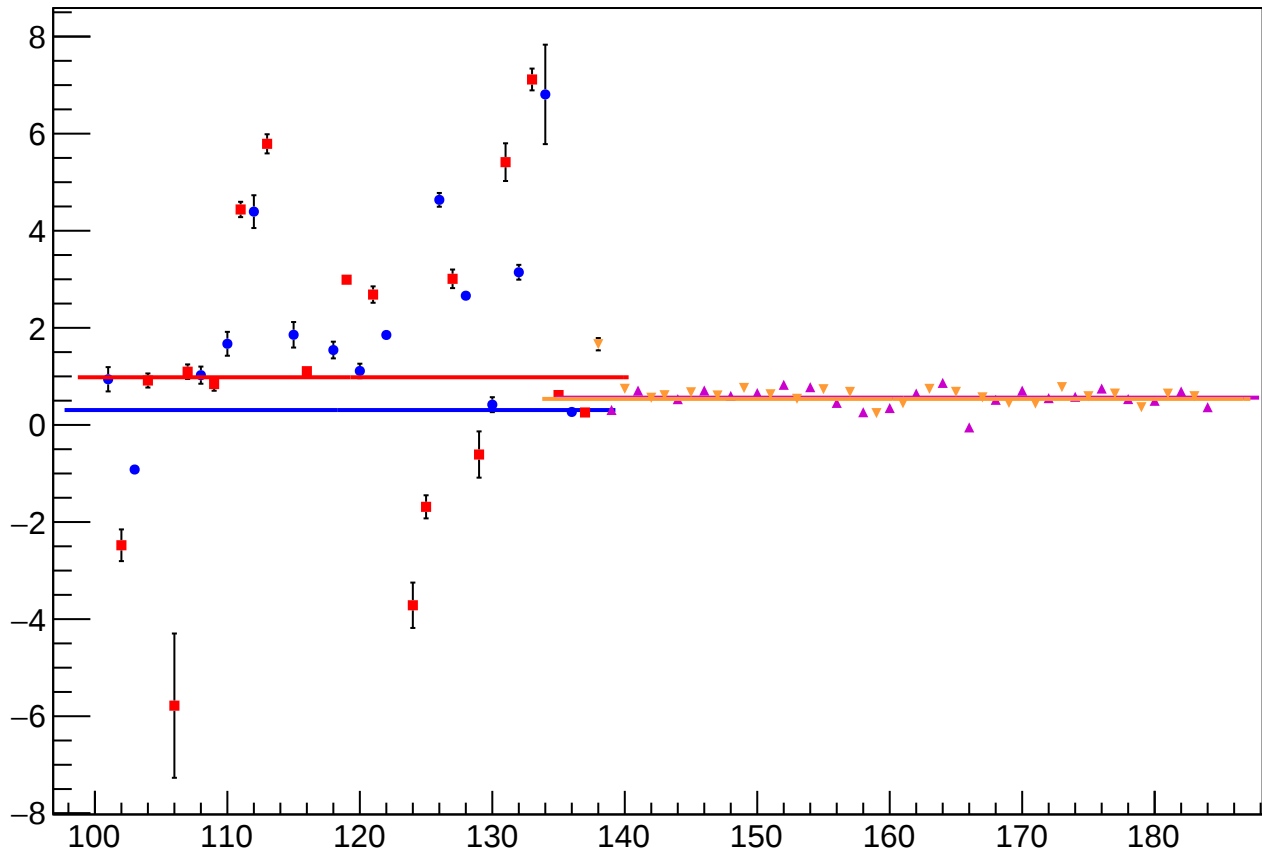
Left In:  $-202.410 \pm 0.086$   $\chi^2/\text{NDF}: 63292.5/22$

+ sign  $-215.095 \pm 0.073$   $\chi^2/\text{NDF}: 378204.3/38$

All:  $-226.872 \pm 0.044$   $\chi^2/\text{NDF}: 775741.0/79$

- sign  $-233.507 \pm 0.055$   $\chi^2/\text{NDF}: 356879.2/40$

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}$ : 2787.0/14

Left Out:  $0.536 \pm 0.002$   $\chi^2/\text{NDF}$ : 11037.4/23

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}$ : 3374.7/17

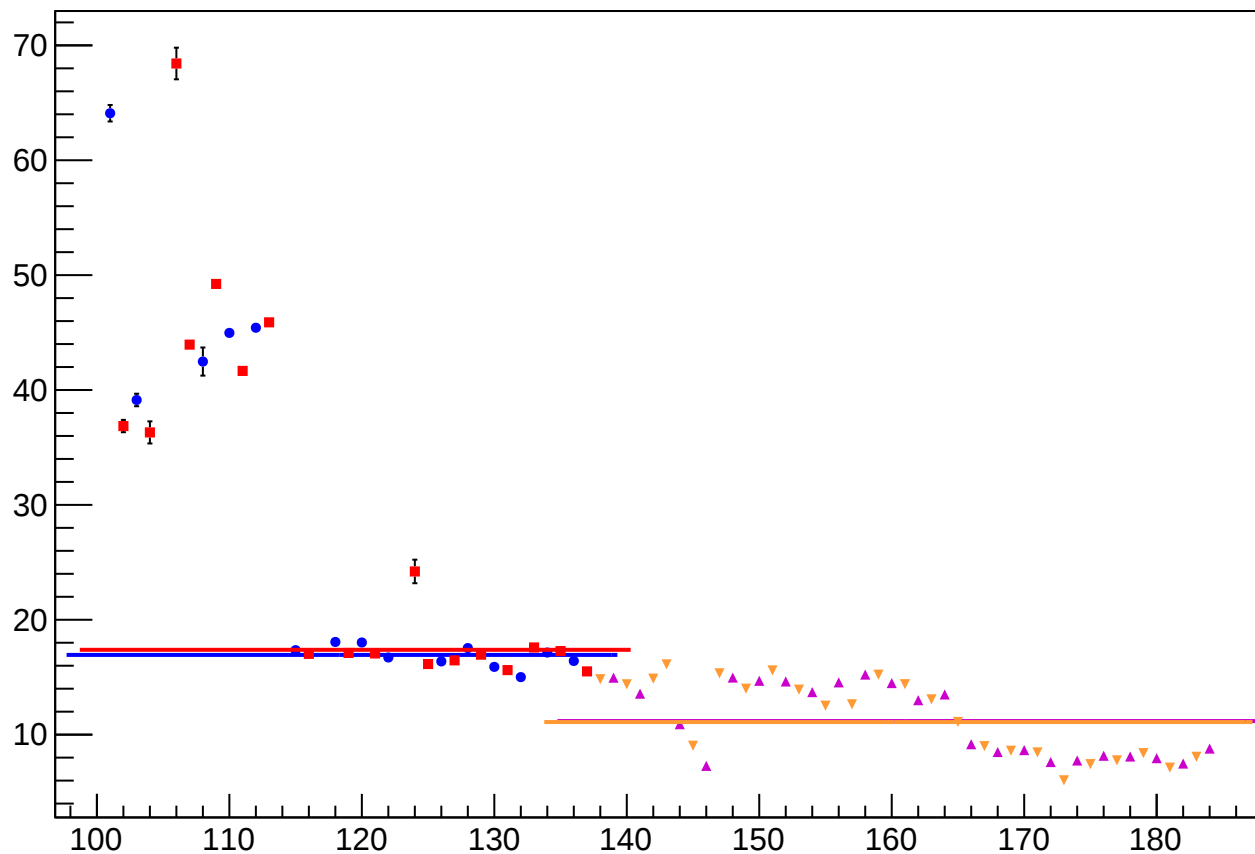
Left In:  $0.562 \pm 0.001$   $\chi^2/\text{NDF}$ : 16291.7/22

+ sign  $0.523 \pm 0.002$   $\chi^2/\text{NDF}$ : 14953.7/38

All:  $0.547 \pm 0.001$   $\chi^2/\text{NDF}$ : 35831.5/79

- sign  $0.566 \pm 0.001$   $\chi^2/\text{NDF}$ : 20476.6/40

# dit\_sam2\_4aY\_slope vs Slug



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}$ : 29019.8/14

Left Out:  $11.097 \pm 0.007$   $\chi^2/\text{NDF}$ : 262500.6/23

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}$ : 61131.5/17

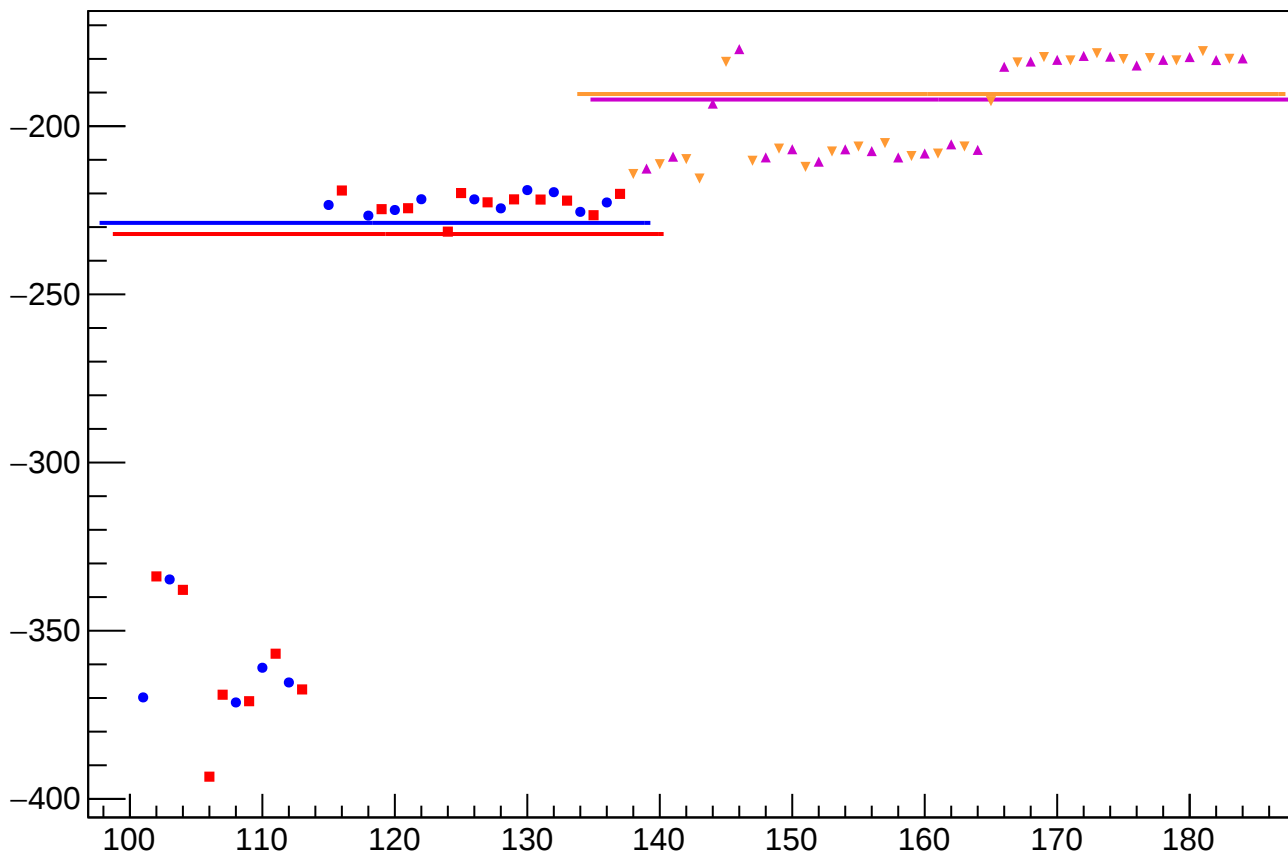
Left In:  $11.184 \pm 0.007$   $\chi^2/\text{NDF}$ : 221112.8/22

+ sign  $12.356 \pm 0.006$   $\chi^2/\text{NDF}$ : 453307.2/38

All:  $12.174 \pm 0.004$   $\chi^2/\text{NDF}$ : 845973.0/79

- sign  $11.973 \pm 0.006$   $\chi^2/\text{NDF}$ : 390712.3/40

# dit\_sam2\_4eY\_slope vs Slug



Right In: -228.749+/-0.035     $\chi^2/\text{NDF}$ : 657578.5/14

Left Out: -190.438+/-0.012     $\chi^2/\text{NDF}$ : 1505401.0/23

Right Out: -232.058+/-0.041     $\chi^2/\text{NDF}$ : 791526.5/17

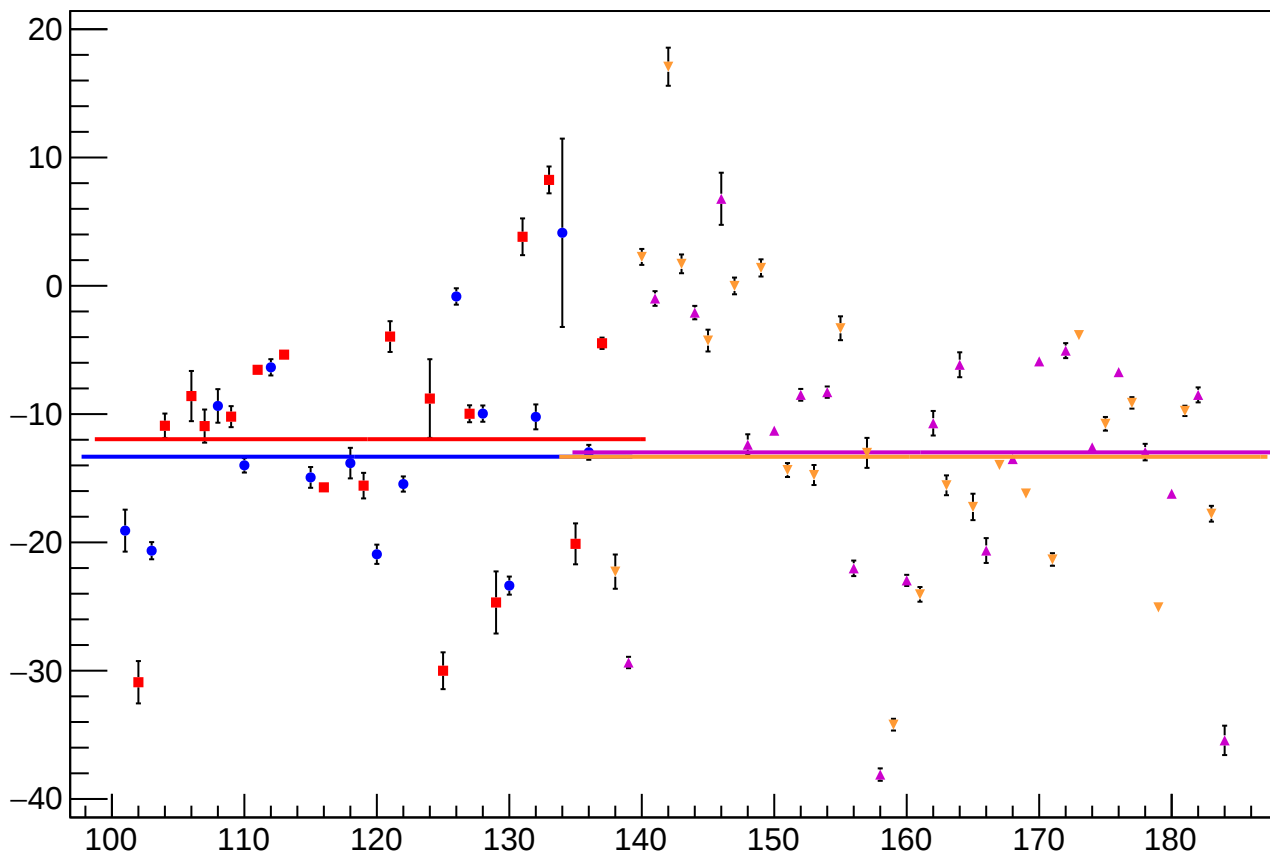
Left In: -192.086+/-0.012     $\chi^2/\text{NDF}$ : 1430161.9/22

+ sign -194.290+/-0.011     $\chi^2/\text{NDF}$ : 3260366.0/38

All: -194.645+/-0.008     $\chi^2/\text{NDF}$ : 6352290.5/79

- sign -195.011+/-0.011     $\chi^2/\text{NDF}$ : 3089811.9/40

# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $-13.330 \pm 0.109$   $\chi^2/\text{NDF}: 7285.3/23$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

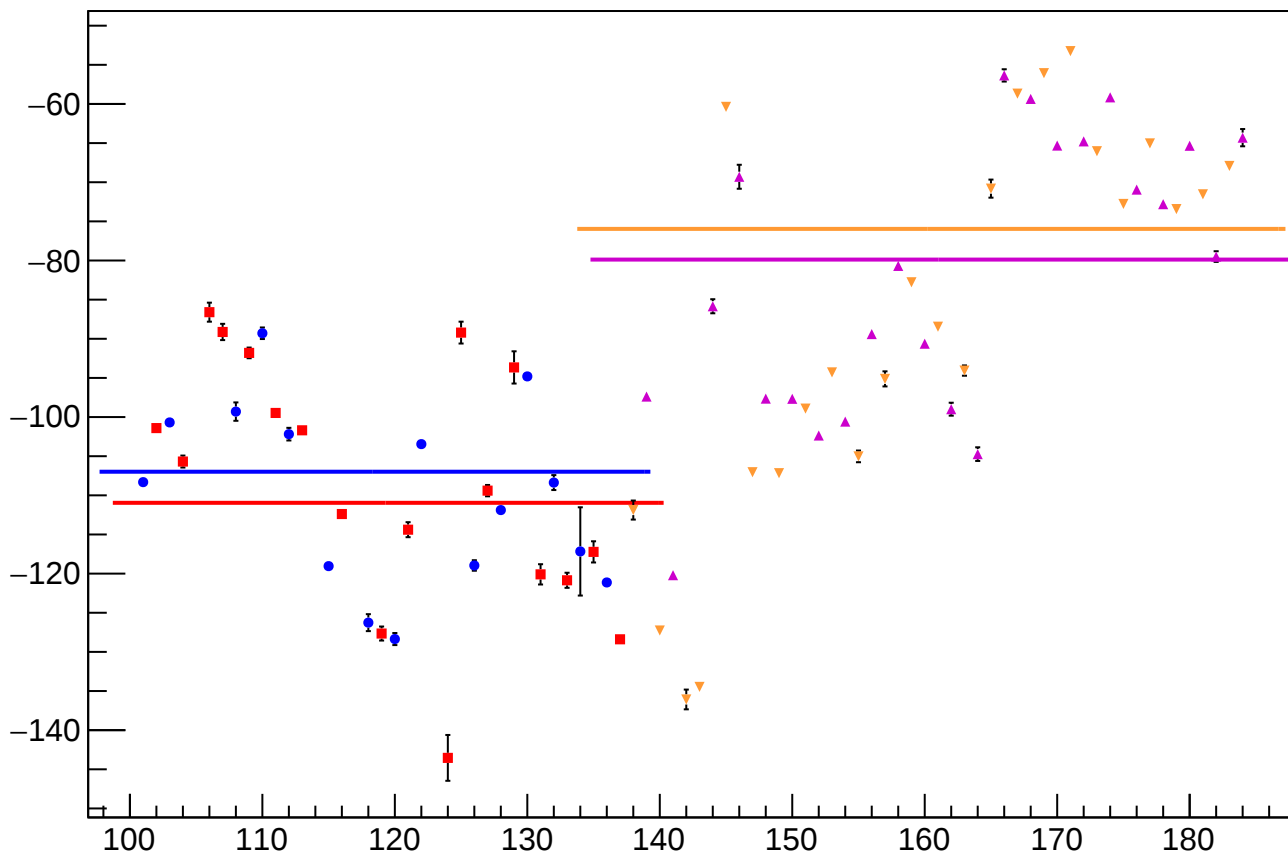
Left In:  $-12.982 \pm 0.099$   $\chi^2/\text{NDF}: 7714.4/22$

+ sign  $-13.328 \pm 0.095$   $\chi^2/\text{NDF}: 8298.3/38$

All:  $-12.836 \pm 0.059$   $\chi^2/\text{NDF}: 18589.8/79$

- sign  $-12.534 \pm 0.074$   $\chi^2/\text{NDF}: 10248.3/40$

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}$ : 4658.3/14

Left Out:  $-75.960 \pm 0.086$   $\chi^2/\text{NDF}$ : 53788.8/23

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}$ : 10675.0/17

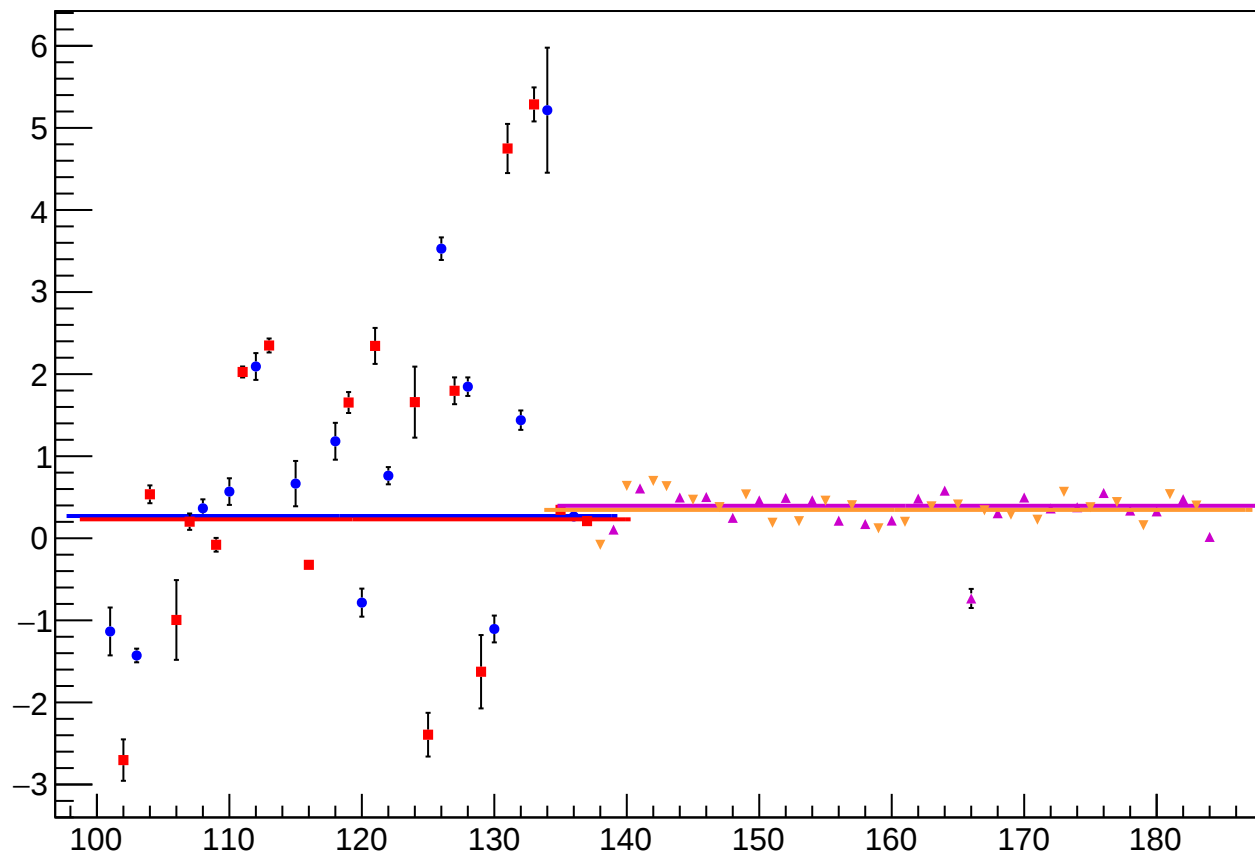
Left In:  $-79.882 \pm 0.086$   $\chi^2/\text{NDF}$ : 44553.2/22

+ sign  $-87.693 \pm 0.068$   $\chi^2/\text{NDF}$ : 107883.4/38

All:  $-98.564 \pm 0.036$   $\chi^2/\text{NDF}$ : 297444.9/79

- sign  $-103.016 \pm 0.043$   $\chi^2/\text{NDF}$ : 153175.2/40

# dit\_sam3\_11X12X\_slope vs Slug



Right In: 0.271+/-0.005  $\chi^2/\text{NDF}$ : 1612.2/14

Left Out: 0.346+/-0.002  $\chi^2/\text{NDF}$ :10444.6/23

Right Out: 0.231+/-0.004  $\chi^2/\text{NDF}$ : 2907.8/17

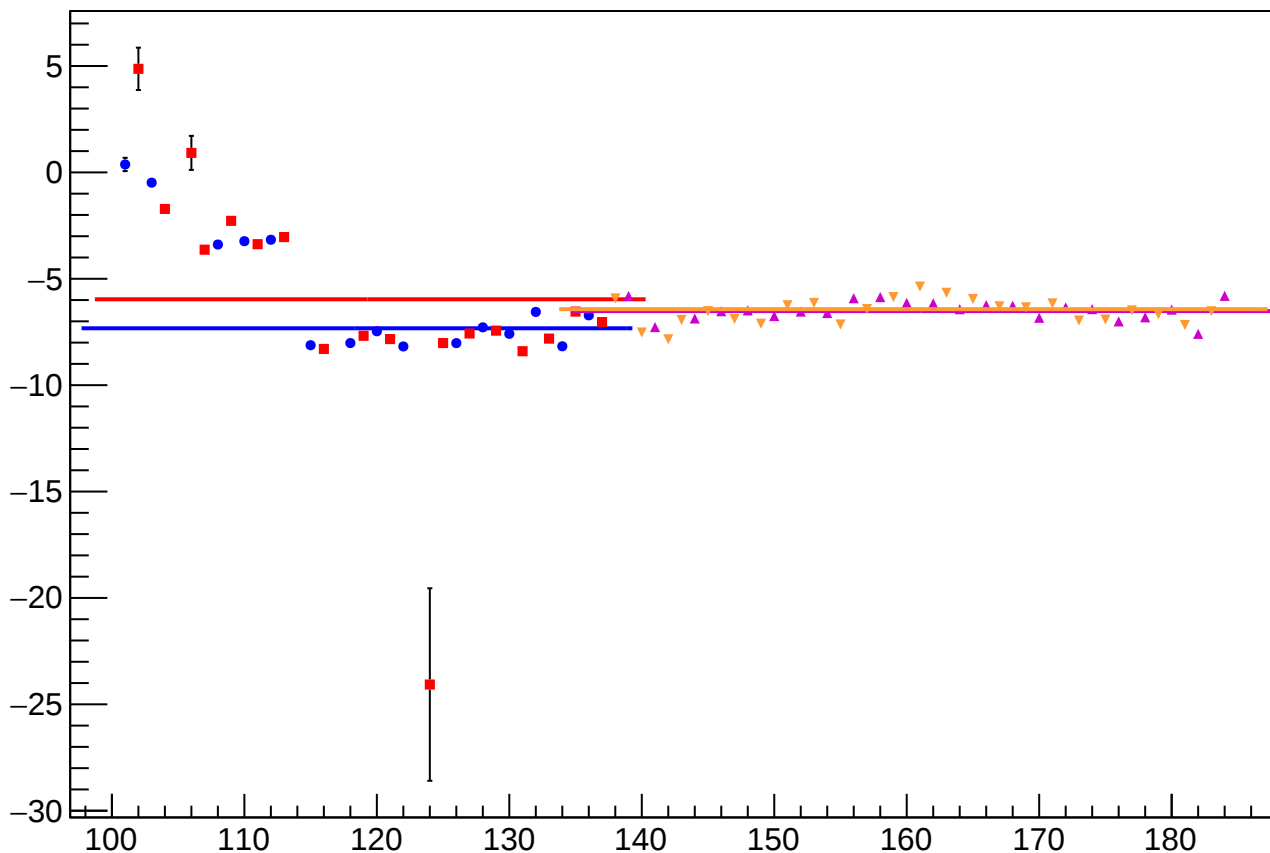
Left In: 0.396+/-0.001  $\chi^2/\text{NDF}$ :10440.9/22

+ sign 0.339+/-0.002  $\chi^2/\text{NDF}$ : 12235.5/38

All: 0.362+/-0.001  $\chi^2/\text{NDF}$ : 27216.9/79

- sign 0.380+/-0.001  $\chi^2/\text{NDF}$ : 14607.7/40

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14

Left Out:  $-6.428 \pm 0.005$   $\chi^2/\text{NDF}$ : 7324.0/23

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17

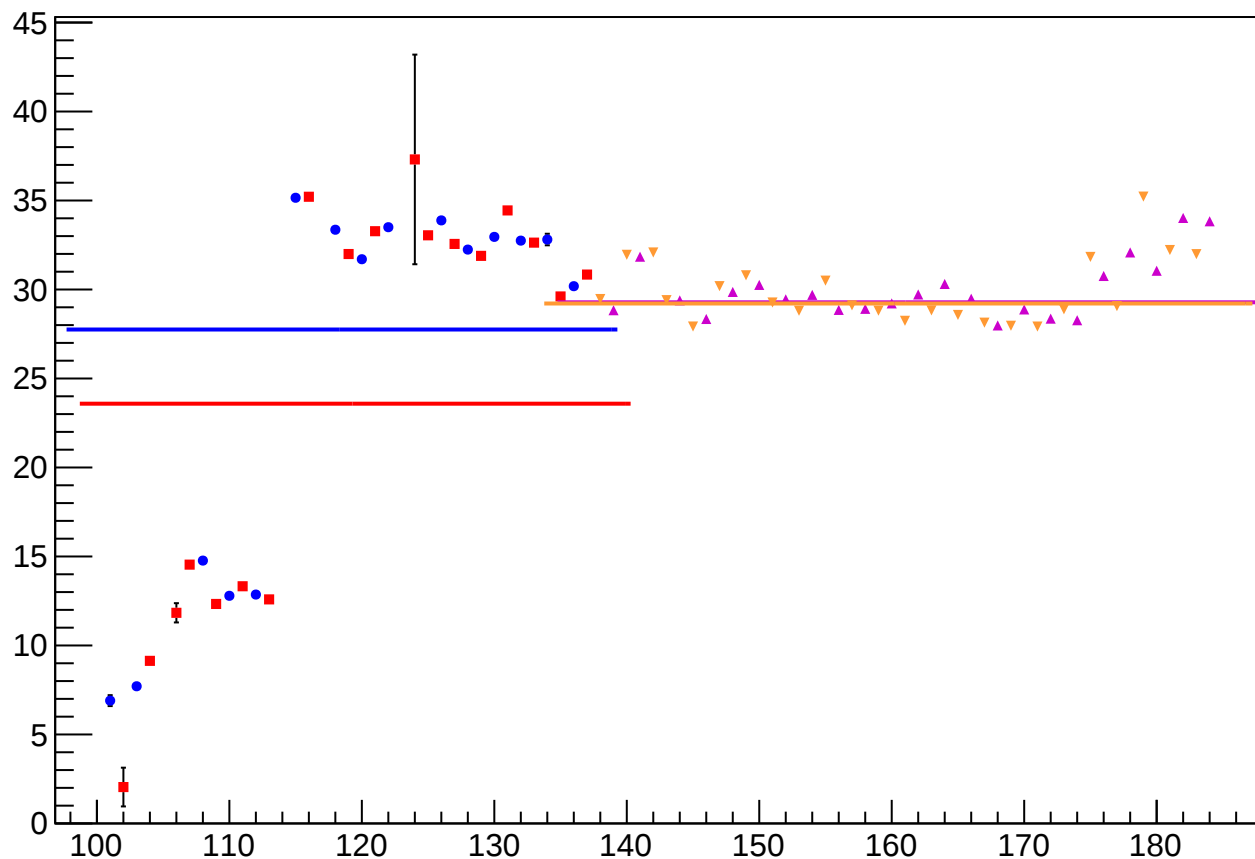
Left In:  $-6.517 \pm 0.005$   $\chi^2/\text{NDF}$ : 7083.8/22

+ sign  $-6.654 \pm 0.004$   $\chi^2/\text{NDF}$ : 46431.3/38

All:  $-6.522 \pm 0.003$   $\chi^2/\text{NDF}$ : 130353.2/79

- sign  $-6.397 \pm 0.004$   $\chi^2/\text{NDF}$ : 82008.0/40

# dit\_sam3\_4eY\_slope vs Slug



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.213 $\pm$ 0.008  $\chi^2$ /NDF: 40113.9/23

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

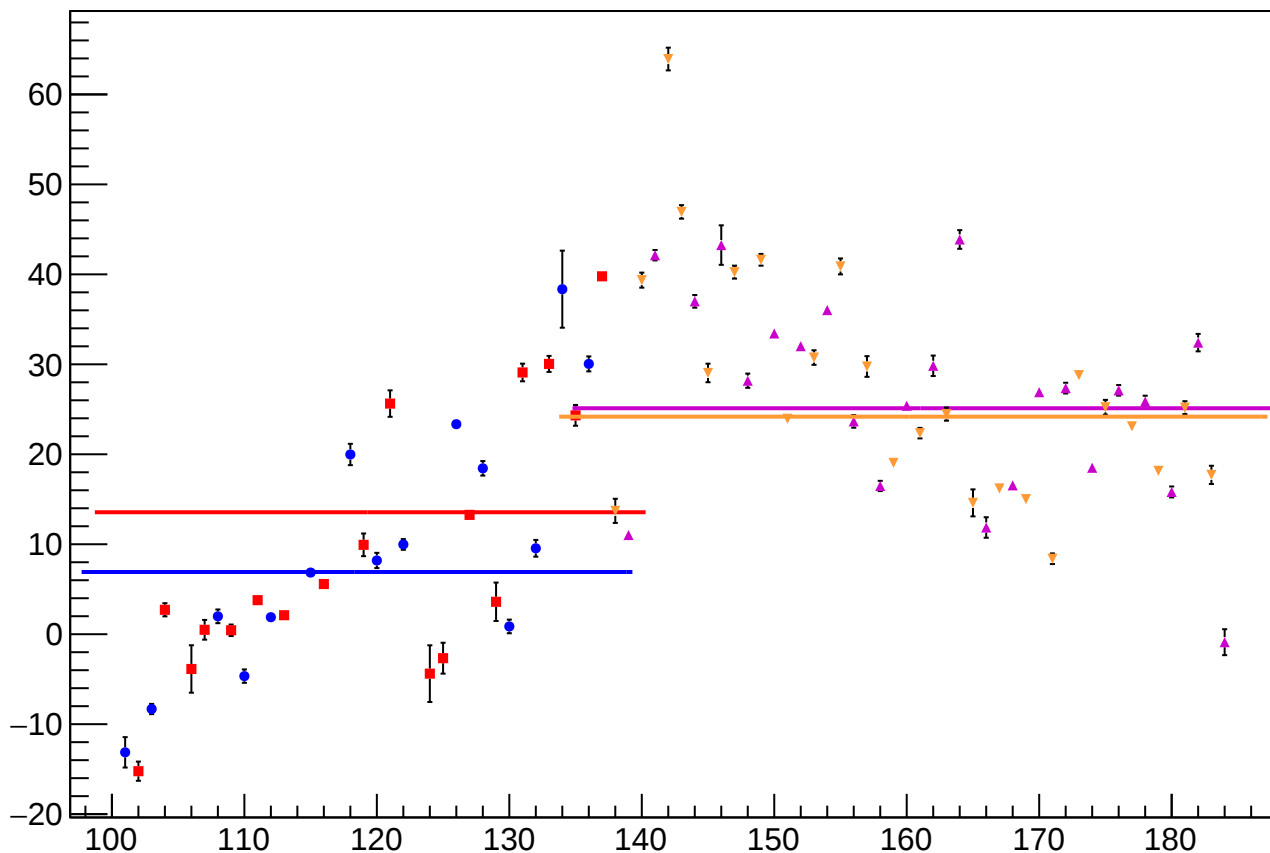
Left In: 29.281 $\pm$ 0.008  $\chi^2$ /NDF: 12436.8/22

+ sign 28.868 $\pm$ 0.007  $\chi^2$ /NDF: 380251.6/38

All: 28.285 $\pm$ 0.005  $\chi^2$ /NDF: 1070156.0/79

- sign 27.724 $\pm$ 0.007  $\chi^2$ /NDF: 677419.5/40

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $24.179 \pm 0.127$   $\chi^2/\text{NDF}: 6170.5/23$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

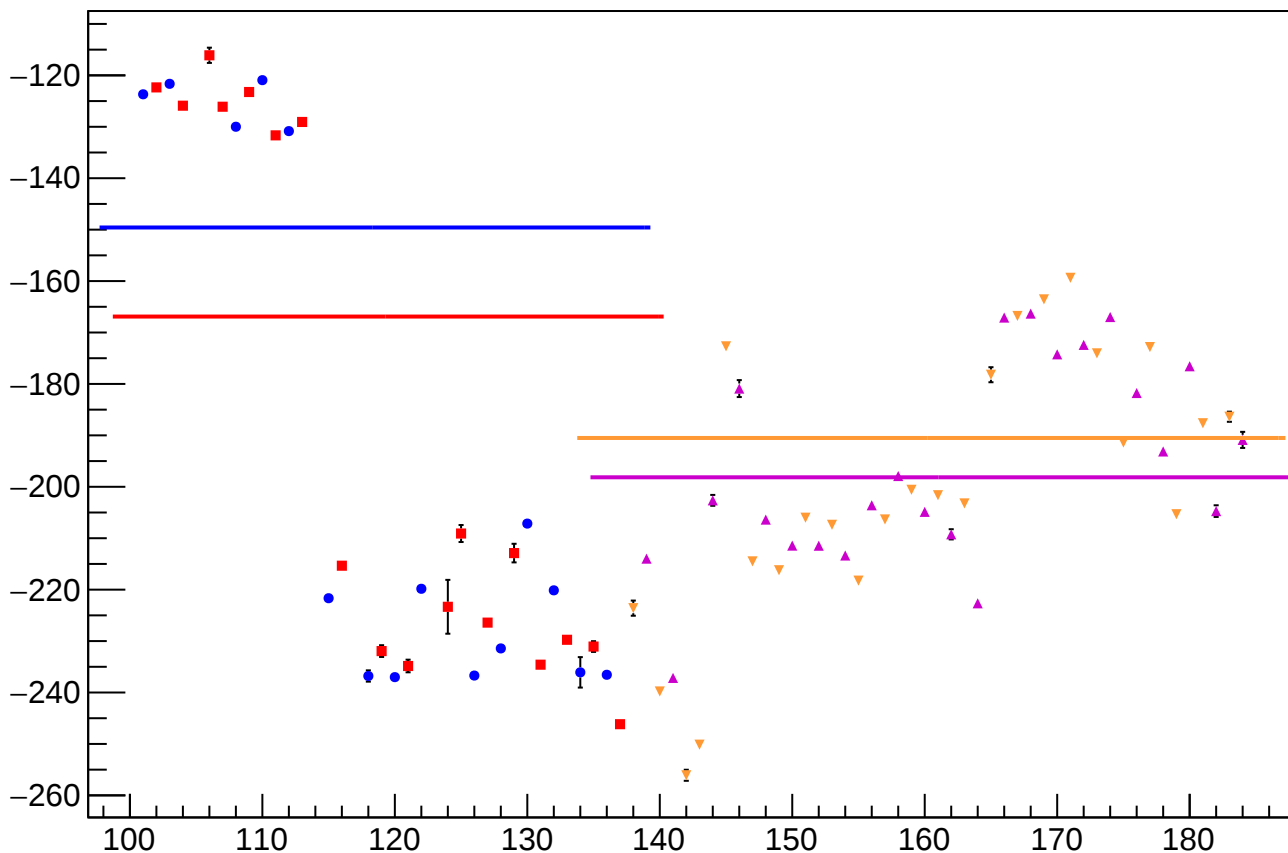
Left In:  $25.118 \pm 0.113$   $\chi^2/\text{NDF}: 6448.8/22$

+ sign  $18.265 \pm 0.103$   $\chi^2/\text{NDF}: 15959.0/38$

All:  $19.684 \pm 0.068$   $\chi^2/\text{NDF}: 38341.5/79$

- sign  $20.742 \pm 0.089$   $\chi^2/\text{NDF}: 22053.4/40$

# dit\_sam4\_4eX\_slope vs Slug



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}: 195091.5/14$

Left Out:  $-190.505 \pm 0.103$   $\chi^2/\text{NDF}: 50654.7/23$

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}: 295489.9/17$

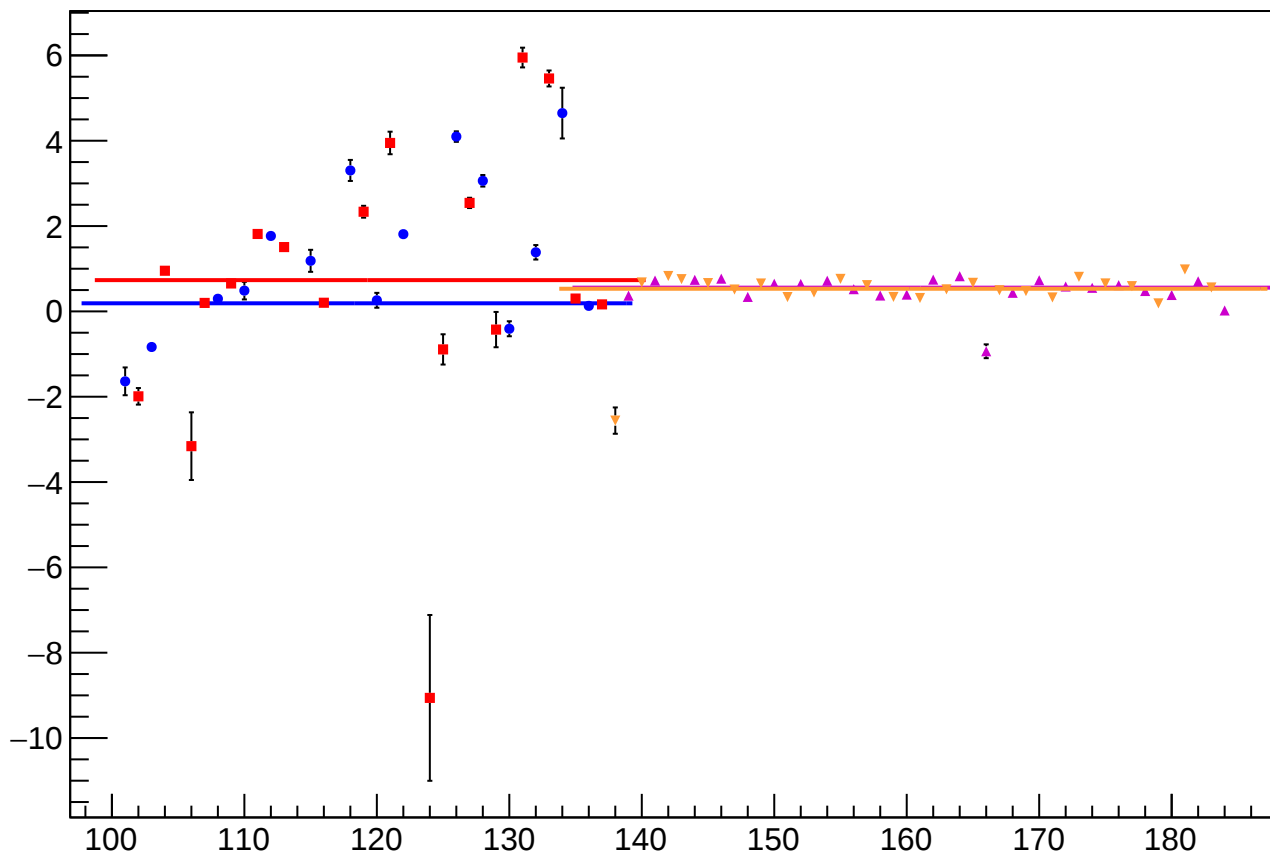
Left In:  $-198.153 \pm 0.098$   $\chi^2/\text{NDF}: 42045.5/22$

+ sign  $-169.532 \pm 0.072$   $\chi^2/\text{NDF}: 325994.6/38$

All:  $-176.366 \pm 0.050$   $\chi^2/\text{NDF}: 730284.3/79$

- sign  $-182.857 \pm 0.070$   $\chi^2/\text{NDF}: 386826.9/40$

# dit\_sam4\_11X12X\_slope vs Slug



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}$ : 2727.5/14

Left Out:  $0.530 \pm 0.002$   $\chi^2/\text{NDF}$ : 8554.8/23

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}$ : 2666.9/17

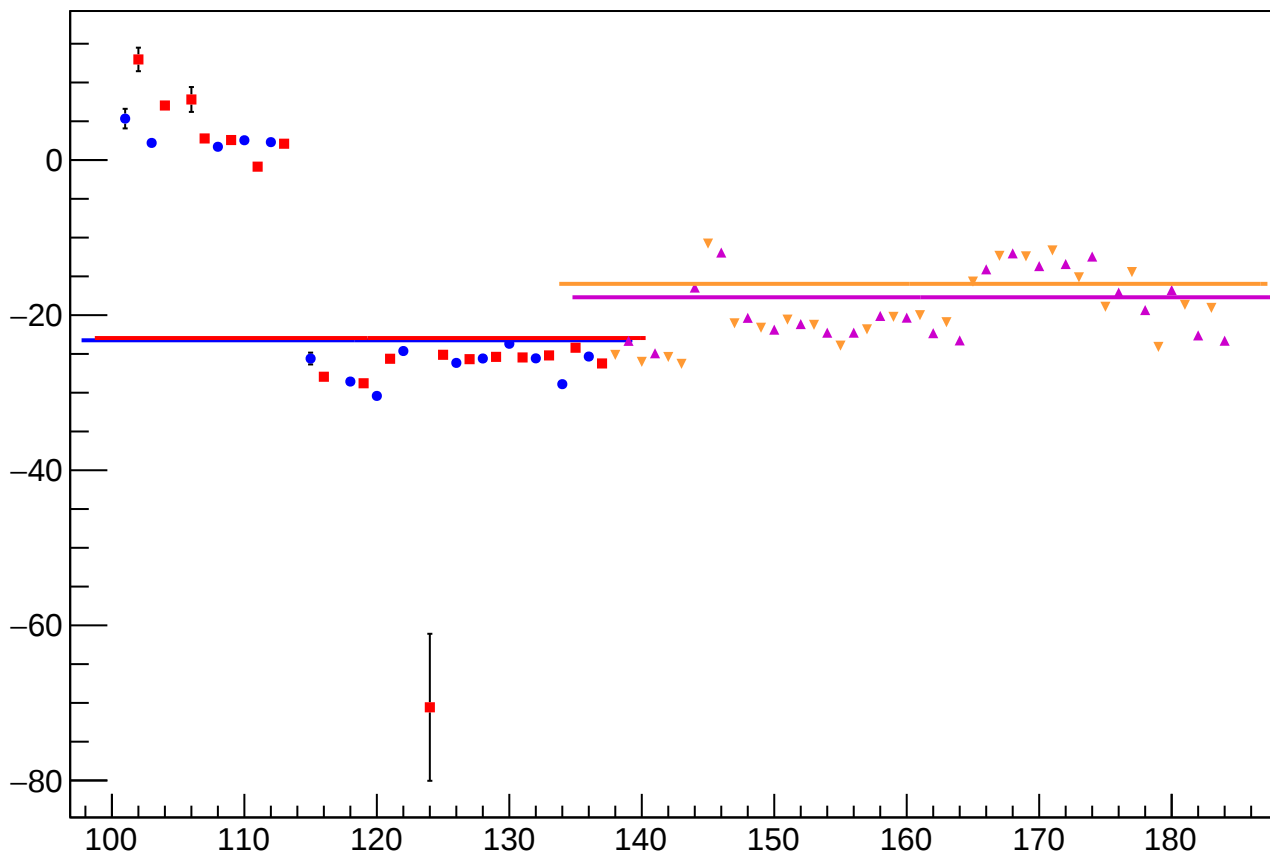
Left In:  $0.556 \pm 0.002$   $\chi^2/\text{NDF}$ : 5988.8/22

+ sign  $0.512 \pm 0.002$   $\chi^2/\text{NDF}$ : 12761.6/38

All:  $0.536 \pm 0.001$   $\chi^2/\text{NDF}$ : 21773.0/79

- sign  $0.558 \pm 0.002$   $\chi^2/\text{NDF}$ : 8734.6/40

# dit\_sam4\_4aY\_slope vs Slug



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}$ : 103102.8/14

Left Out:  $-15.963 \pm 0.011$   $\chi^2/\text{NDF}$ : 188462.0/23

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}$ : 108039.1/17

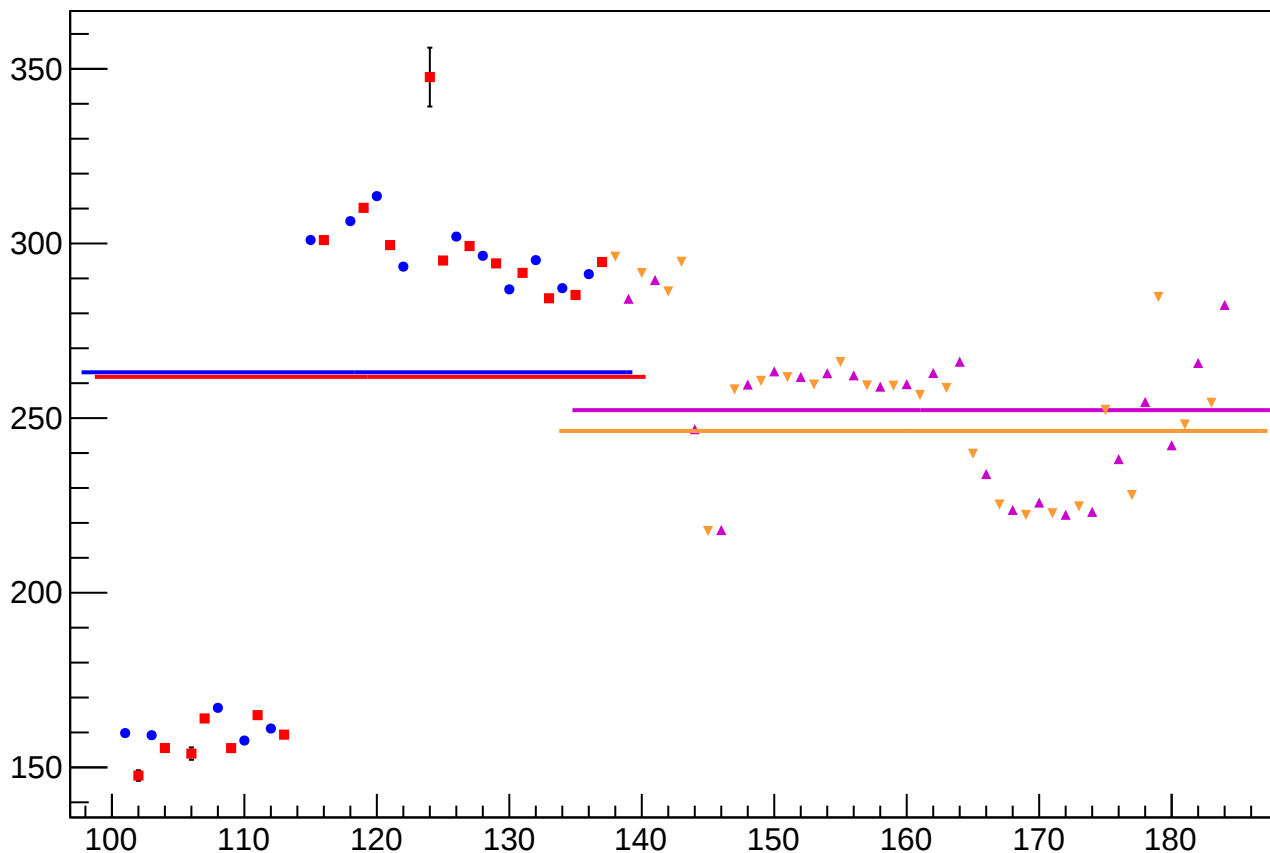
Left In:  $-17.695 \pm 0.012$   $\chi^2/\text{NDF}$ : 121415.4/22

+ sign  $-17.170 \pm 0.010$   $\chi^2/\text{NDF}$ : 363609.3/38

All:  $-17.879 \pm 0.007$   $\chi^2/\text{NDF}$ : 640450.7/79

- sign  $-18.659 \pm 0.011$   $\chi^2/\text{NDF}$ : 266459.1/40

# dit\_sam4\_4eY\_slope vs Slug



Right In: 263.120+/-0.069  $\chi^2/\text{NDF}$ : 692885.4/14

Left Out: 246.324+/-0.028  $\chi^2/\text{NDF}$ : 684790.0/23

Right Out: 261.814+/-0.060  $\chi^2/\text{NDF}$ : 1006189.6/17

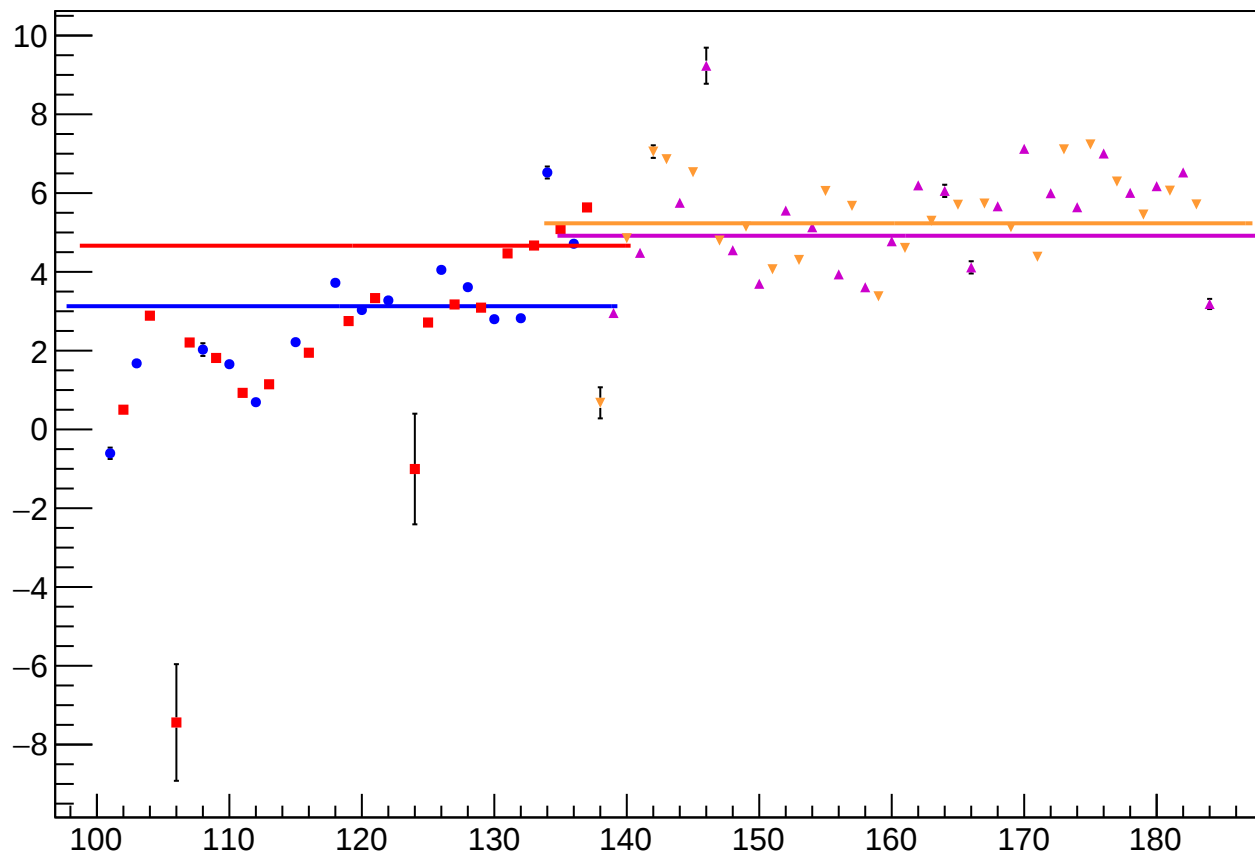
Left In: 252.278+/-0.028  $\chi^2/\text{NDF}$ : 359829.6/22

+ sign 248.740+/-0.026  $\chi^2/\text{NDF}$ : 1428300.7/38

All: 251.420+/-0.018  $\chi^2/\text{NDF}$ : 2835272.7/79

- sign 254.007+/-0.026  $\chi^2/\text{NDF}$ : 1386400.9/40

# dit\_sam5\_4aX\_slope vs Slug



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $5.233 \pm 0.014$   $\chi^2/\text{NDF}: 4522.8/23$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

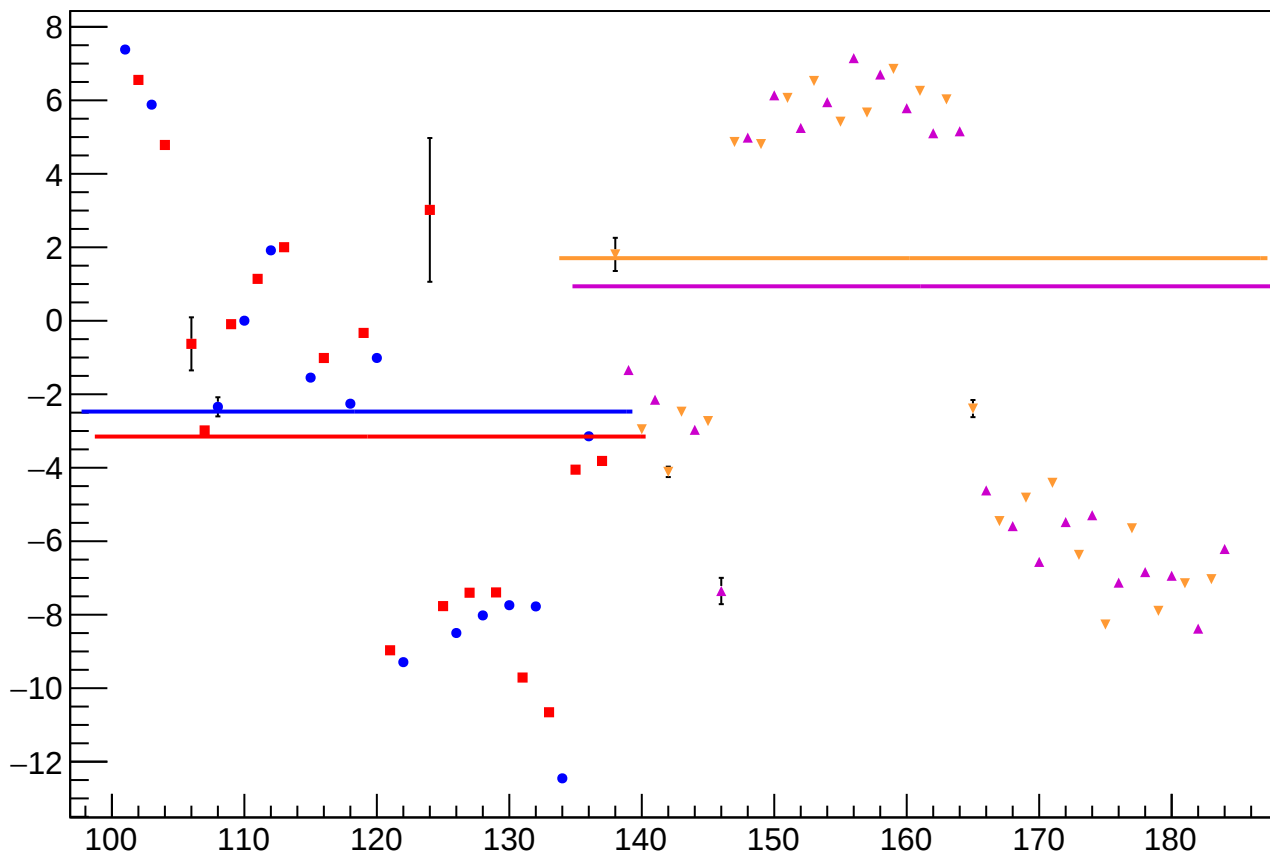
Left In:  $4.917 \pm 0.013$   $\chi^2/\text{NDF}: 10749.9/22$

+ sign  $4.324 \pm 0.010$   $\chi^2/\text{NDF}: 20320.8/38$

All:  $4.624 \pm 0.005$   $\chi^2/\text{NDF}: 99343.5/79$

- sign  $4.715 \pm 0.006$   $\chi^2/\text{NDF}: 77927.2/40$

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}$ : 242579.9/14

Left Out:  $1.704 \pm 0.011$   $\chi^2/\text{NDF}$ : 217237.2/23

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}$ : 247427.7/17

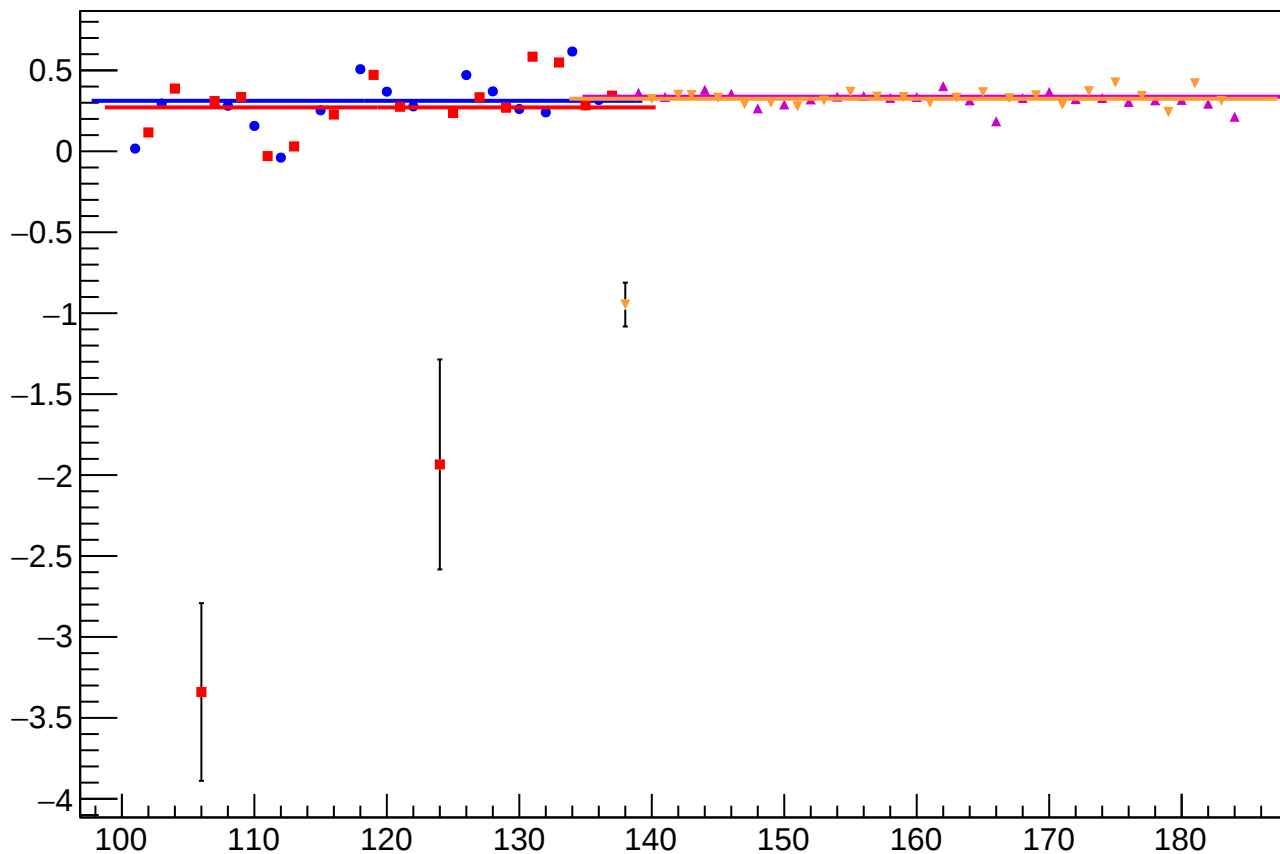
Left In:  $0.938 \pm 0.011$   $\chi^2/\text{NDF}$ : 253480.7/22

+ sign  $0.038 \pm 0.009$   $\chi^2/\text{NDF}$ : 512476.0/38

All:  $-1.262 \pm 0.005$   $\chi^2/\text{NDF}$ : 1138481.4/79

- sign  $-1.887 \pm 0.006$   $\chi^2/\text{NDF}$ : 594482.9/40

# dit\_sam5\_11X12X\_slope vs Slug



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}$ : 1319.2/14

Left Out:  $0.325 \pm 0.001$   $\chi^2/\text{NDF}$ : 2881.7/23

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}$ : 6144.7/17

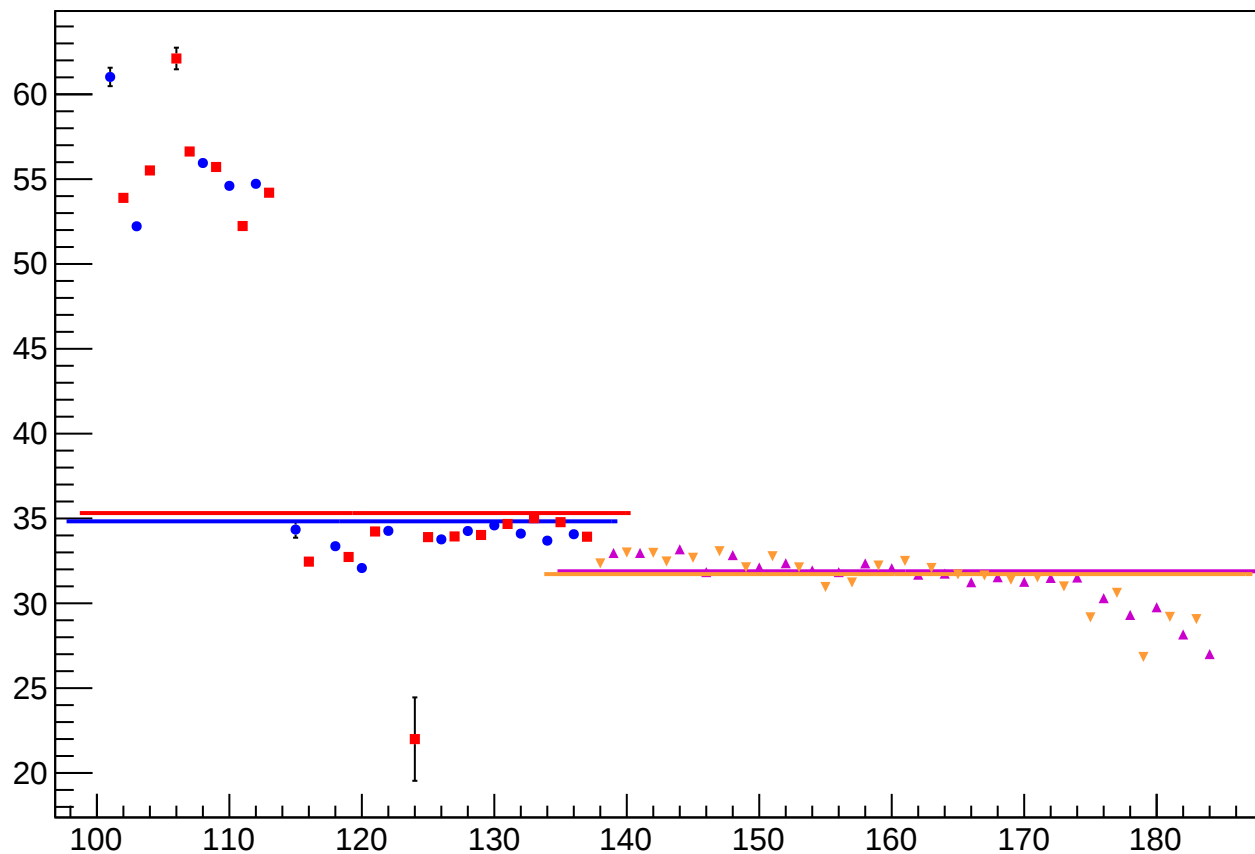
Left In:  $0.337 \pm 0.001$   $\chi^2/\text{NDF}$ : 4013.5/22

+ sign  $0.322 \pm 0.001$   $\chi^2/\text{NDF}$ : 4281.7/38

All:  $0.328 \pm 0.000$   $\chi^2/\text{NDF}$ : 15577.0/79

- sign  $0.333 \pm 0.001$   $\chi^2/\text{NDF}$ : 11080.6/40

# dit\_sam5\_4aY\_slope vs Slug



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 31.721 $\pm$ 0.003  $\chi^2$ /NDF: 67512.2/23

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

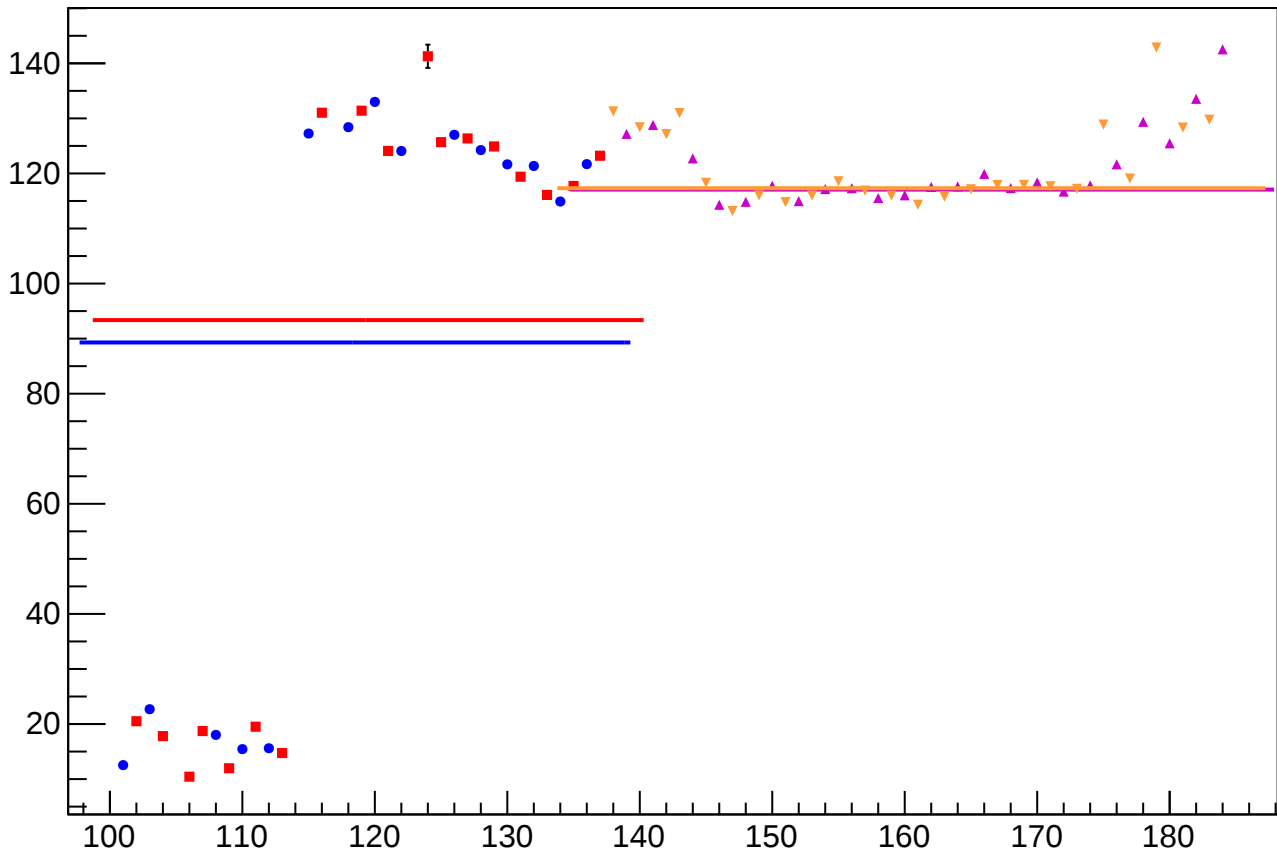
Left In: 31.887 $\pm$ 0.004  $\chi^2$ /NDF: 33208.8/22

+ sign 32.097 $\pm$ 0.003  $\chi^2$ /NDF: 427562.0/38

All: 32.181 $\pm$ 0.002  $\chi^2$ /NDF: 829045.7/79

- sign 32.289 $\pm$ 0.003  $\chi^2$ /NDF: 399688.5/40

# dit\_sam5\_4eY\_slope vs Slug



Right In: 89.302 $\pm$ 0.027  $\chi^2$ /NDF: 3034485.1/14

Left Out: 117.321 $\pm$ 0.008  $\chi^2$ /NDF: 154523.8/23

Right Out: 93.367 $\pm$ 0.030  $\chi^2$ /NDF: 2852493.6/17

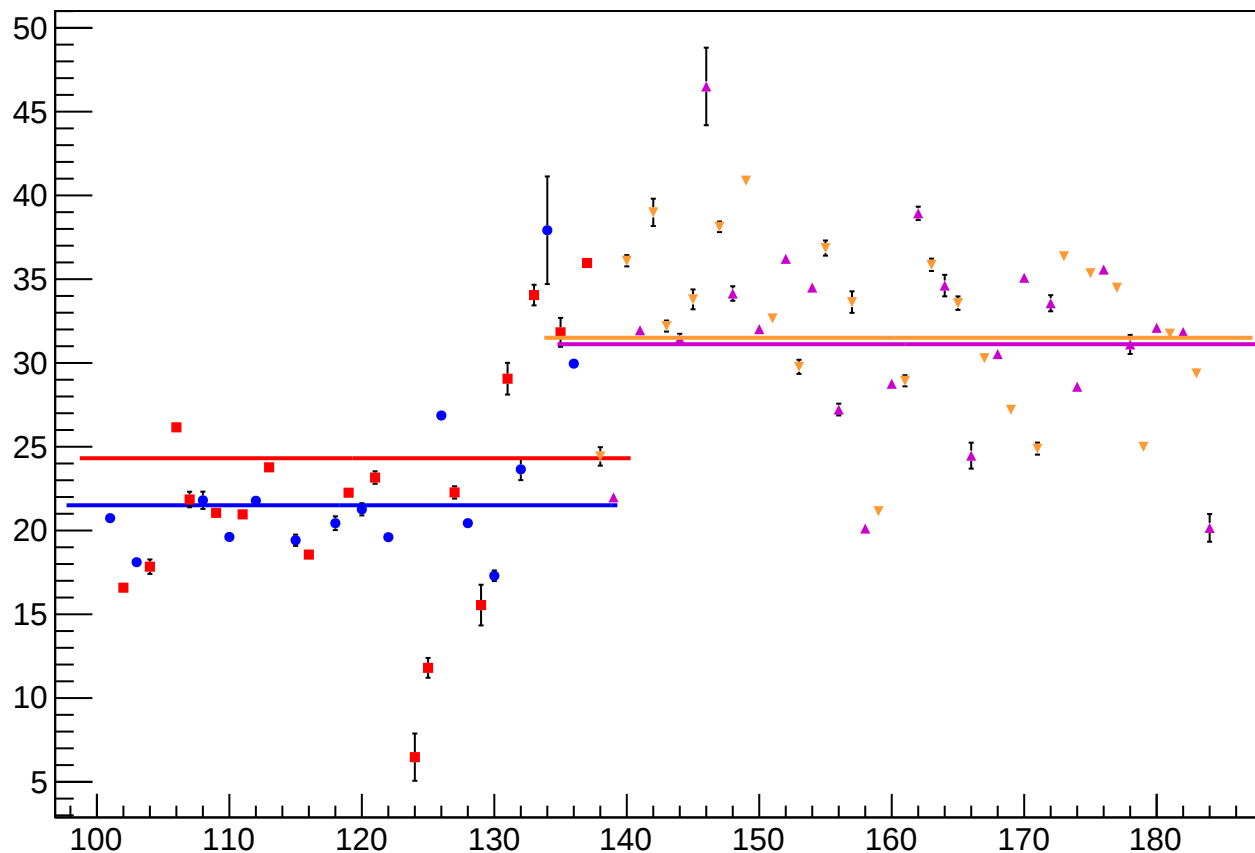
Left In: 117.066 $\pm$ 0.009  $\chi^2$ /NDF: 63800.7/22

+ sign 115.133 $\pm$ 0.008  $\chi^2$ /NDF: 4150370.4/38

All: 115.162 $\pm$ 0.006  $\chi^2$ /NDF: 7643749.2/79

- sign 115.197 $\pm$ 0.008  $\chi^2$ /NDF: 3493347.7/40

# dit\_sam6\_4aX\_slope vs Slug



Right In: 21.507 $\pm$ 0.072  $\chi^2$ /NDF: 2963.0/14

Left Out: 31.503 $\pm$ 0.061  $\chi^2$ /NDF: 6153.0/23

Right Out: 24.314 $\pm$ 0.058  $\chi^2$ /NDF: 14295.4/17

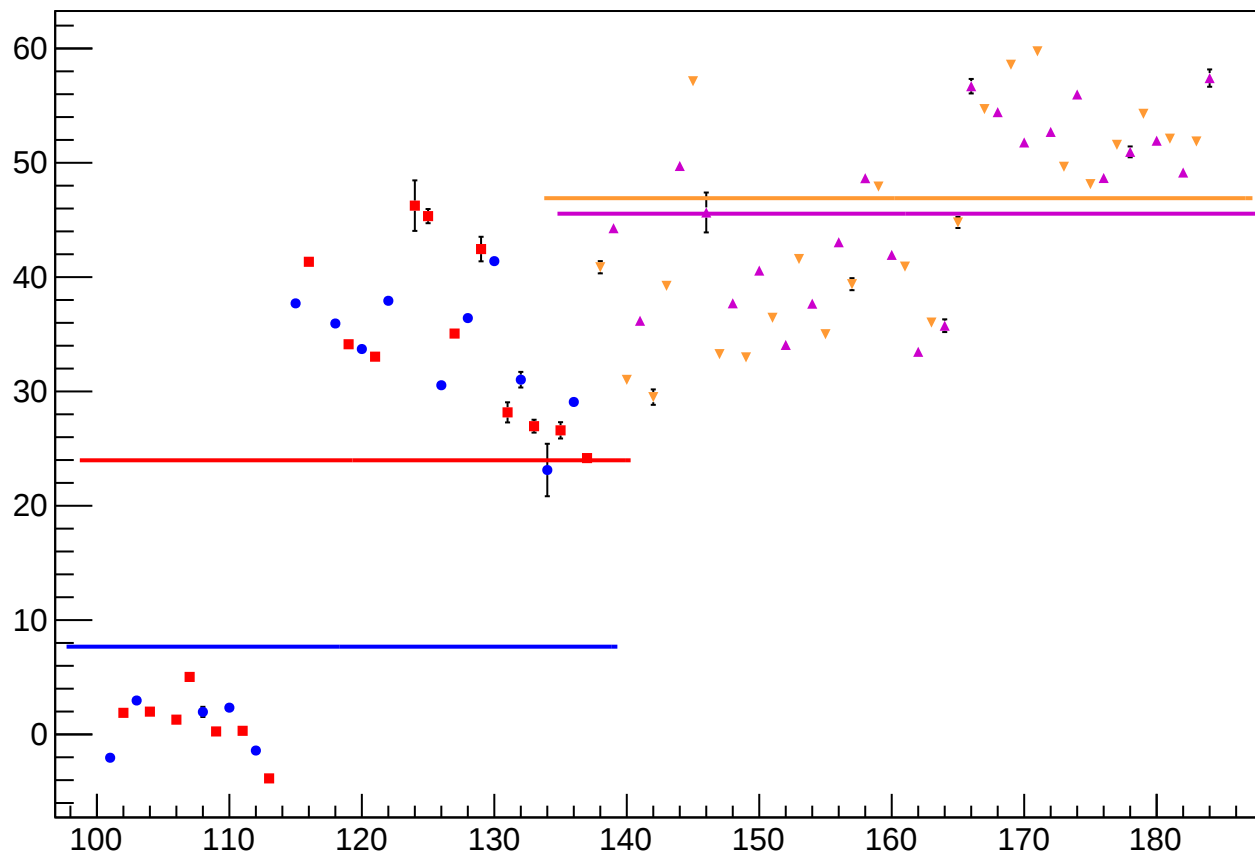
Left In: 31.120 $\pm$ 0.058  $\chi^2$ /NDF: 6111.4/22

+ sign 27.331 $\pm$ 0.047  $\chi^2$ /NDF: 20246.5/38

All: 27.580 $\pm$ 0.031  $\chi^2$ /NDF: 47586.3/79

- sign 27.771 $\pm$ 0.041  $\chi^2$ /NDF: 27289.6/40

# dit\_sam6\_4eX\_slope vs Slug



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}$ : 96442.5/14

Left Out:  $46.904 \pm 0.051$   $\chi^2/\text{NDF}$ : 26985.0/23

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}$ : 110564.0/17

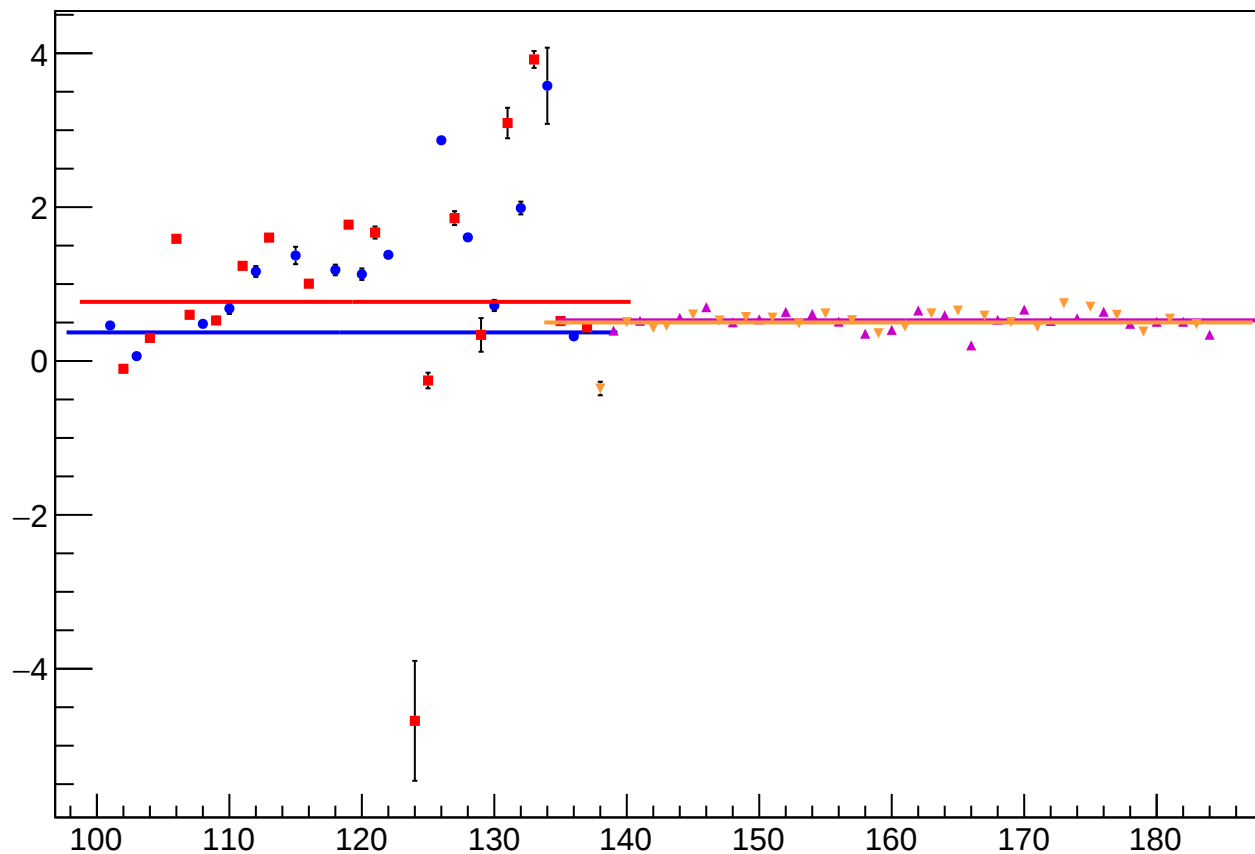
Left In:  $45.548 \pm 0.049$   $\chi^2/\text{NDF}$ : 19148.5/22

+ sign  $25.005 \pm 0.034$   $\chi^2/\text{NDF}$ : 455664.5/38

All:  $24.580 \pm 0.008$   $\chi^2/\text{NDF}$ : 771941.3/79

- sign  $24.555 \pm 0.008$   $\chi^2/\text{NDF}$ : 316109.7/40

# dit\_sam6\_11X12X\_slope vs Slug



Right In: 0.372 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 4748.7/14

Left Out: 0.501 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 15192.3/23

Right Out: 0.769 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 4137.5/17

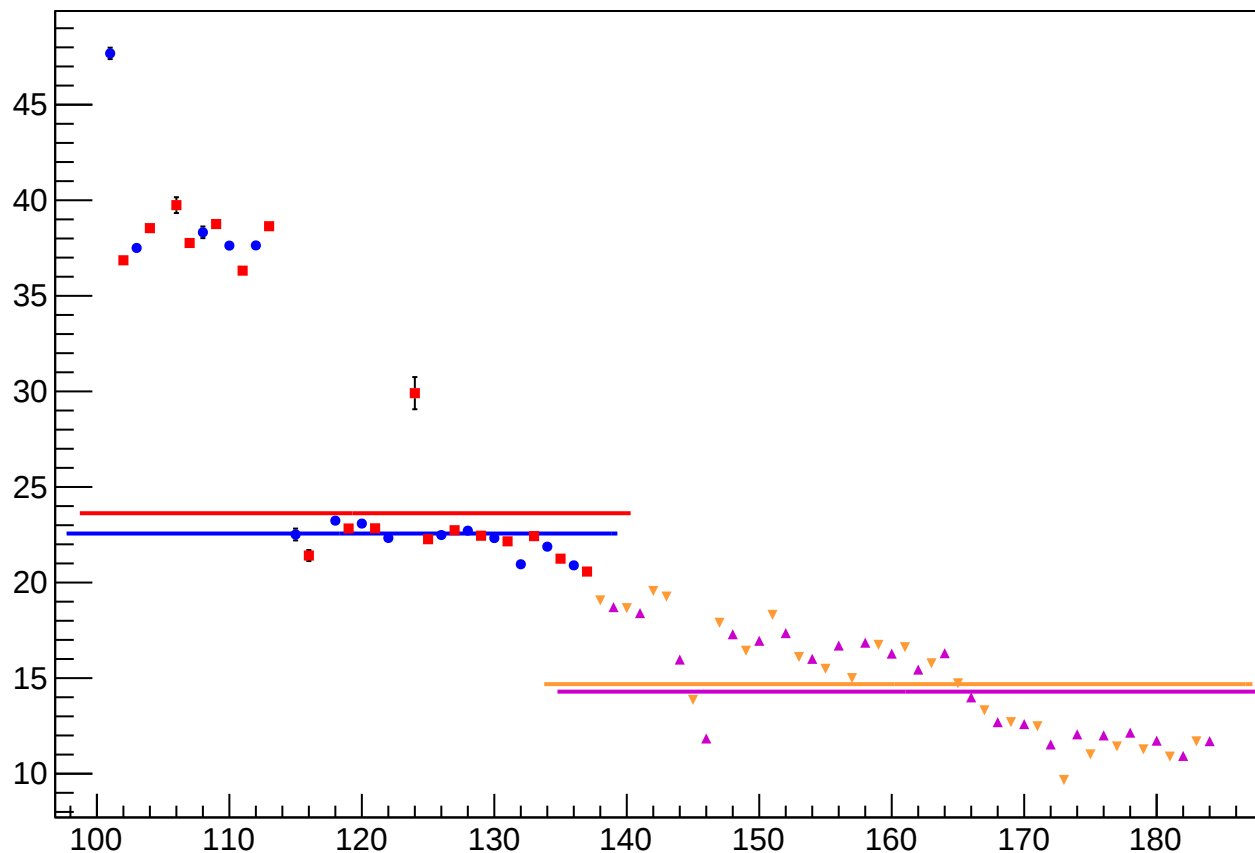
Left In: 0.528 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 12771.0/22

+ sign 0.495 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 20784.3/38

All: 0.516 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 39766.5/79

- sign 0.532 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 18094.1/40

# dit\_sam6\_4aY\_slope vs Slug



Right In: 22.565 $\pm$ 0.010  $\chi^2$ /NDF: 92859.1/14

Left Out: 14.686 $\pm$ 0.005  $\chi^2$ /NDF:312569.2/23

Right Out: 23.627 $\pm$ 0.011  $\chi^2$ /NDF: 123194.1/17

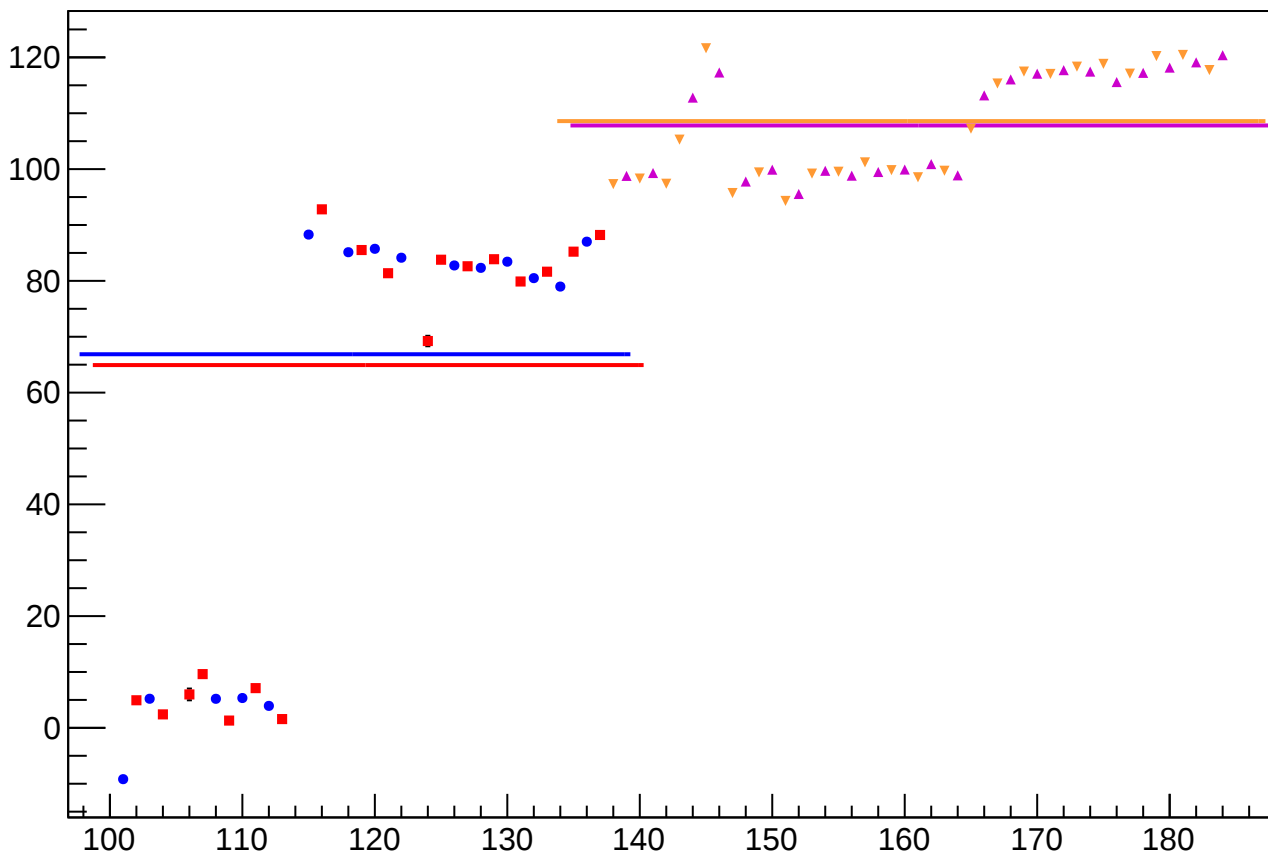
Left In: 14.293 $\pm$ 0.005  $\chi^2$ /NDF:213936.0/22

+ sign 16.344 $\pm$ 0.005  $\chi^2$ /NDF: 878971.4/38

All: 16.206 $\pm$ 0.003  $\chi^2$ /NDF: 1779262.8/79

- sign 16.054 $\pm$ 0.005  $\chi^2$ /NDF: 898449.0/40

# dit\_sam6\_4eY\_slope vs Slug



Right In: 66.866+/-0.027  $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out: 108.593+/-0.010  $\chi^2/\text{NDF}$ : 1006055.5/23

Right Out: 64.929+/-0.030  $\chi^2/\text{NDF}$ : 1334580.7/17

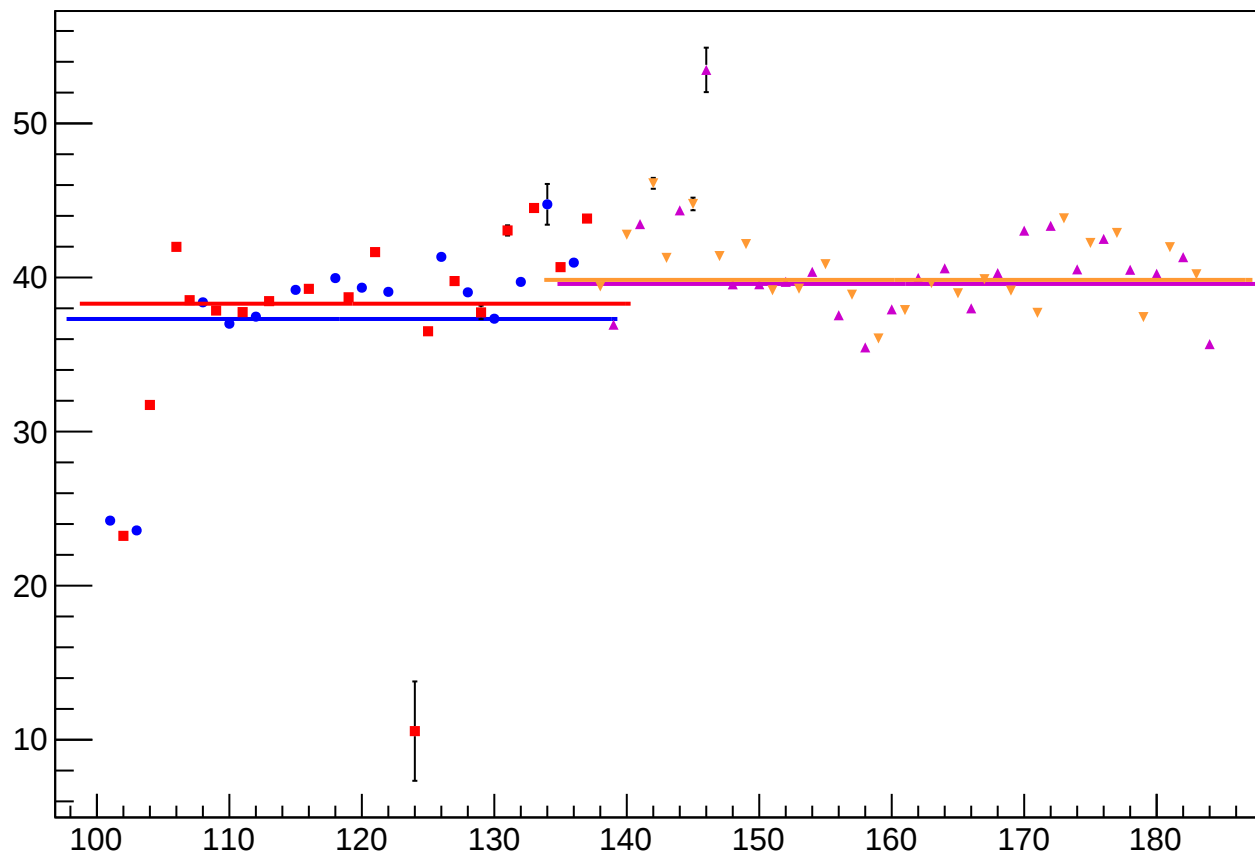
Left In: 107.814+/-0.010  $\chi^2/\text{NDF}$ : 911439.9/22

+ sign 103.910+/-0.009  $\chi^2/\text{NDF}$ : 4611158.3/38

All: 103.834+/-0.006  $\chi^2/\text{NDF}$ : 8741514.3/79

- sign 103.757+/-0.009  $\chi^2/\text{NDF}$ : 4130215.7/40

# dit\_sam7\_4aX\_slope vs Slug



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $39.845 \pm 0.027$   $\chi^2/\text{NDF}: 6861.7/23$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

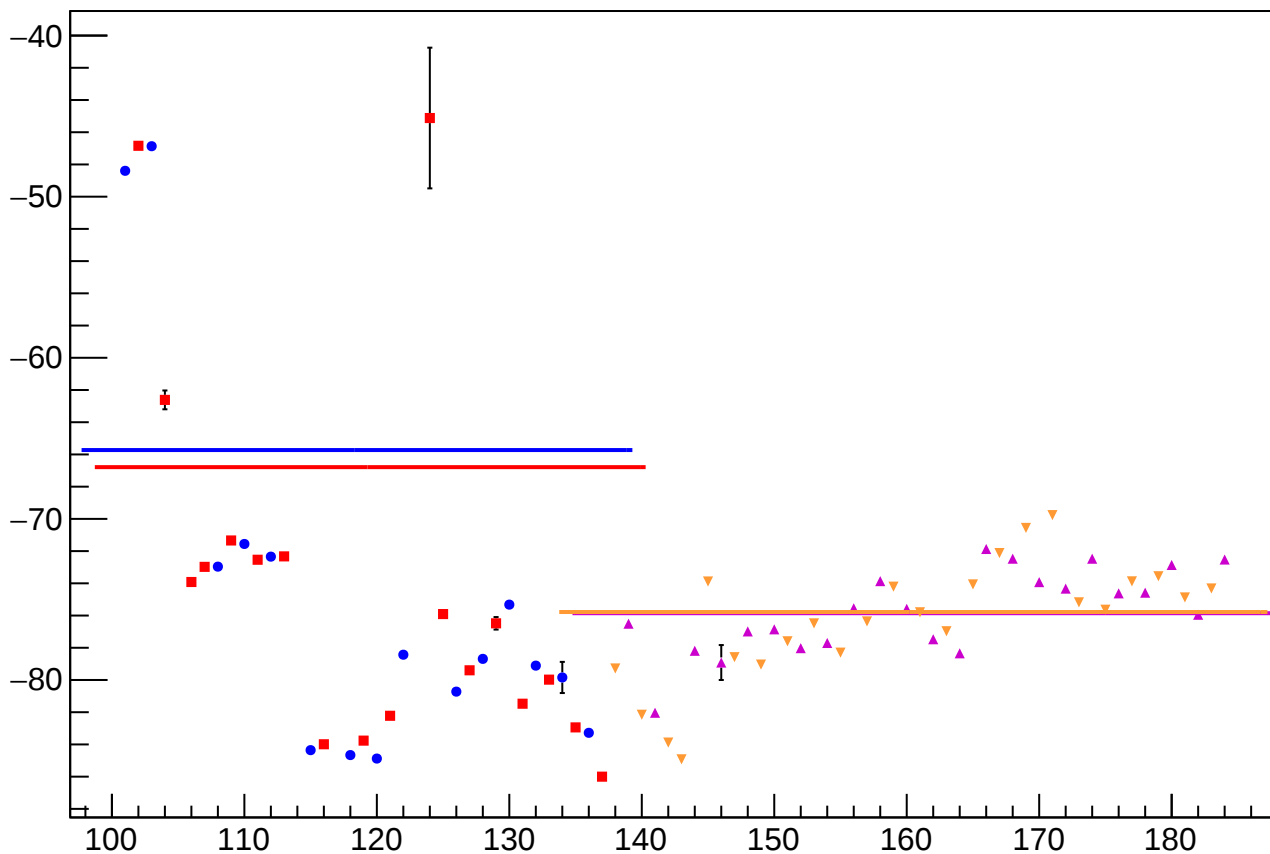
Left In:  $39.582 \pm 0.023$   $\chi^2/\text{NDF}: 9138.0/22$

+ sign  $38.369 \pm 0.018$   $\chi^2/\text{NDF}: 71496.8/38$

All:  $38.653 \pm 0.012$   $\chi^2/\text{NDF}: 101663.6/79$

- sign  $38.868 \pm 0.015$   $\chi^2/\text{NDF}: 29709.2/40$

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-75.781 \pm 0.022$   $\chi^2/\text{NDF}: 23682.8/23$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

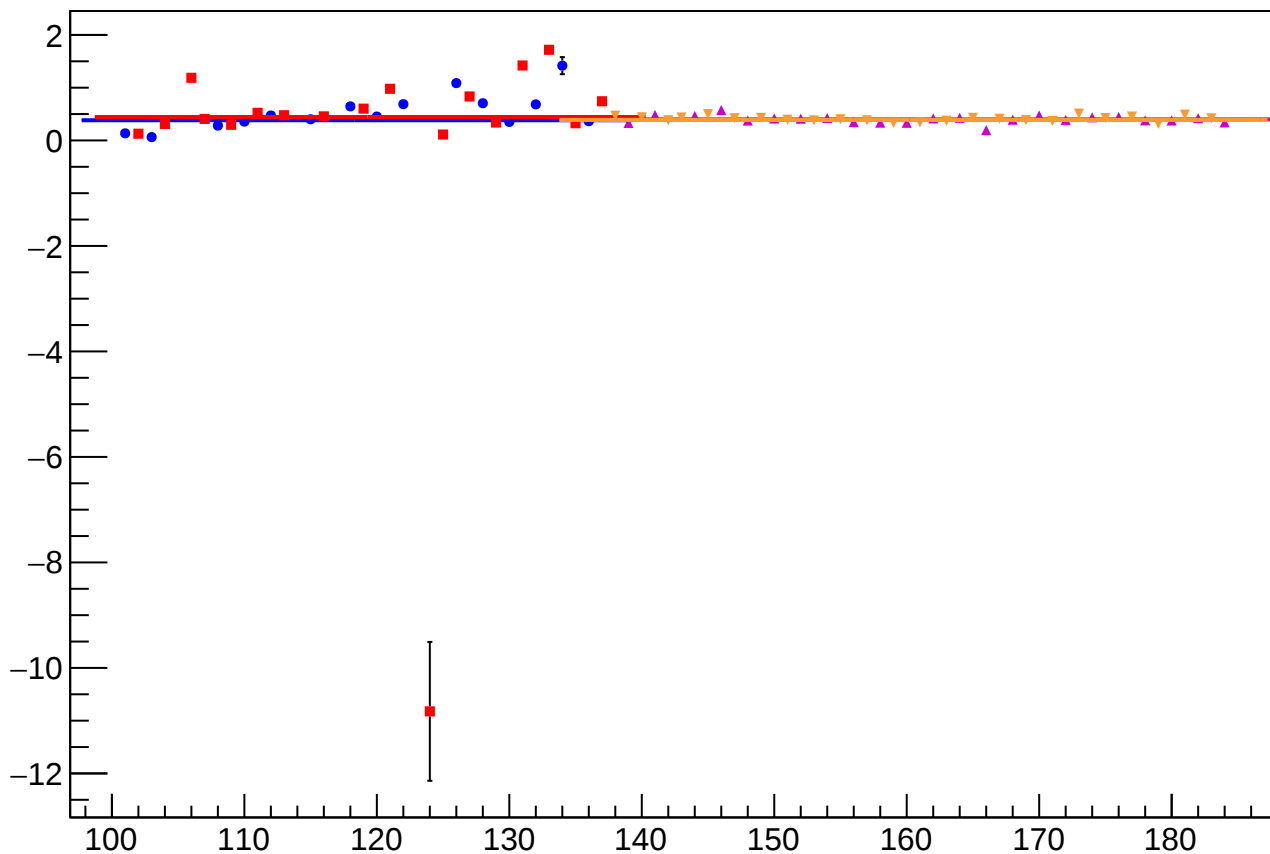
Left In:  $-75.855 \pm 0.019$   $\chi^2/\text{NDF}: 12226.9/22$

+ sign  $-69.481 \pm 0.013$   $\chi^2/\text{NDF}: 1059633.3/38$

All:  $-70.017 \pm 0.009$   $\chi^2/\text{NDF}: 2017607.6/79$

- sign  $-70.465 \pm 0.012$   $\chi^2/\text{NDF}: 955008.7/40$

# dit\_sam7\_11X12X\_slope vs Slug



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.388 $\pm$ 0.000  $\chi^2$ /NDF:10603.9/23

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

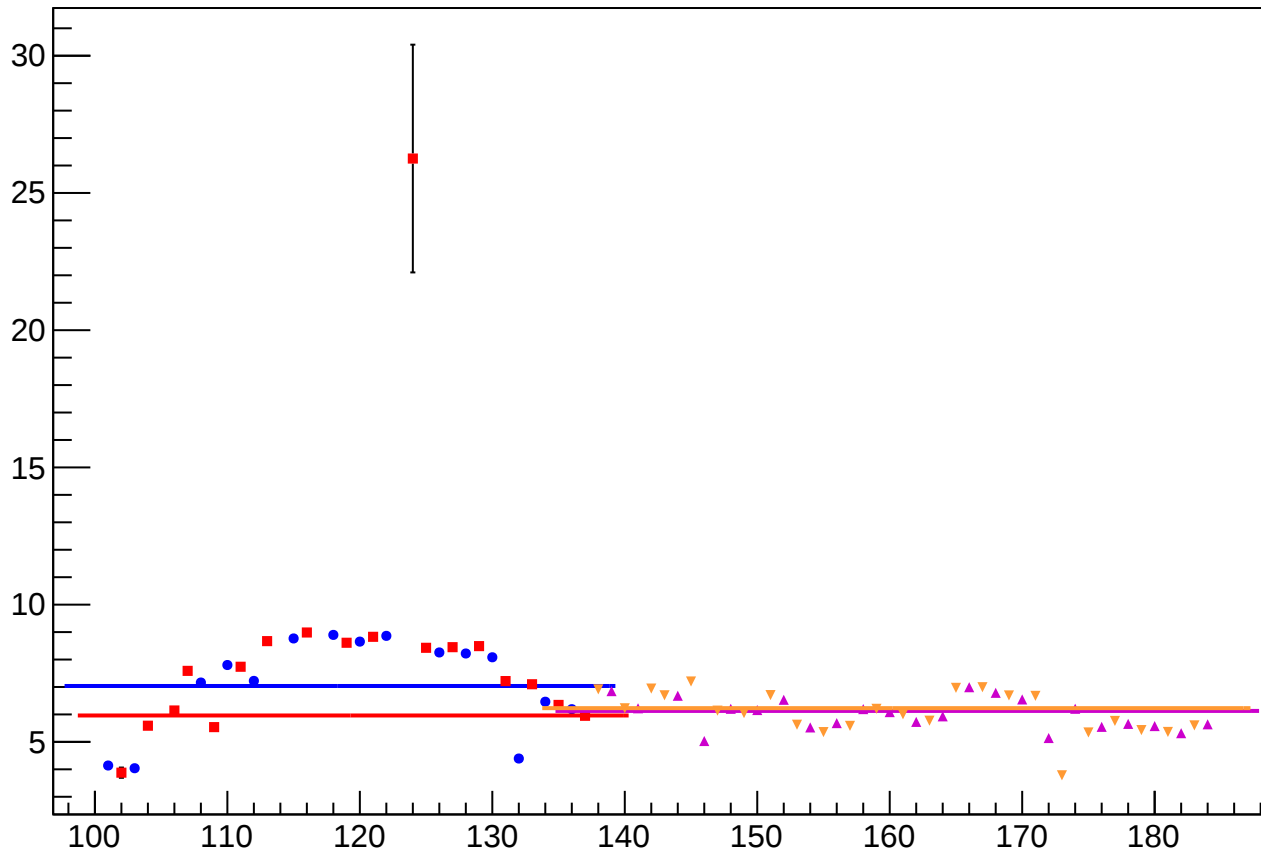
Left In: 0.399 $\pm$ 0.000  $\chi^2$ /NDF:8983.2/22

+ sign 0.388 $\pm$ 0.000  $\chi^2$ /NDF: 18785.0/38

All: 0.394 $\pm$ 0.000  $\chi^2$ /NDF: 31066.3/79

- sign 0.400 $\pm$ 0.000  $\chi^2$ /NDF: 11917.4/40

# dit\_sam7\_4aY\_slope vs Slug



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}$ : 69905.1/14

Left Out:  $6.229 \pm 0.002$   $\chi^2/\text{NDF}$ : 118000.3/23

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}$ : 168372.8/17

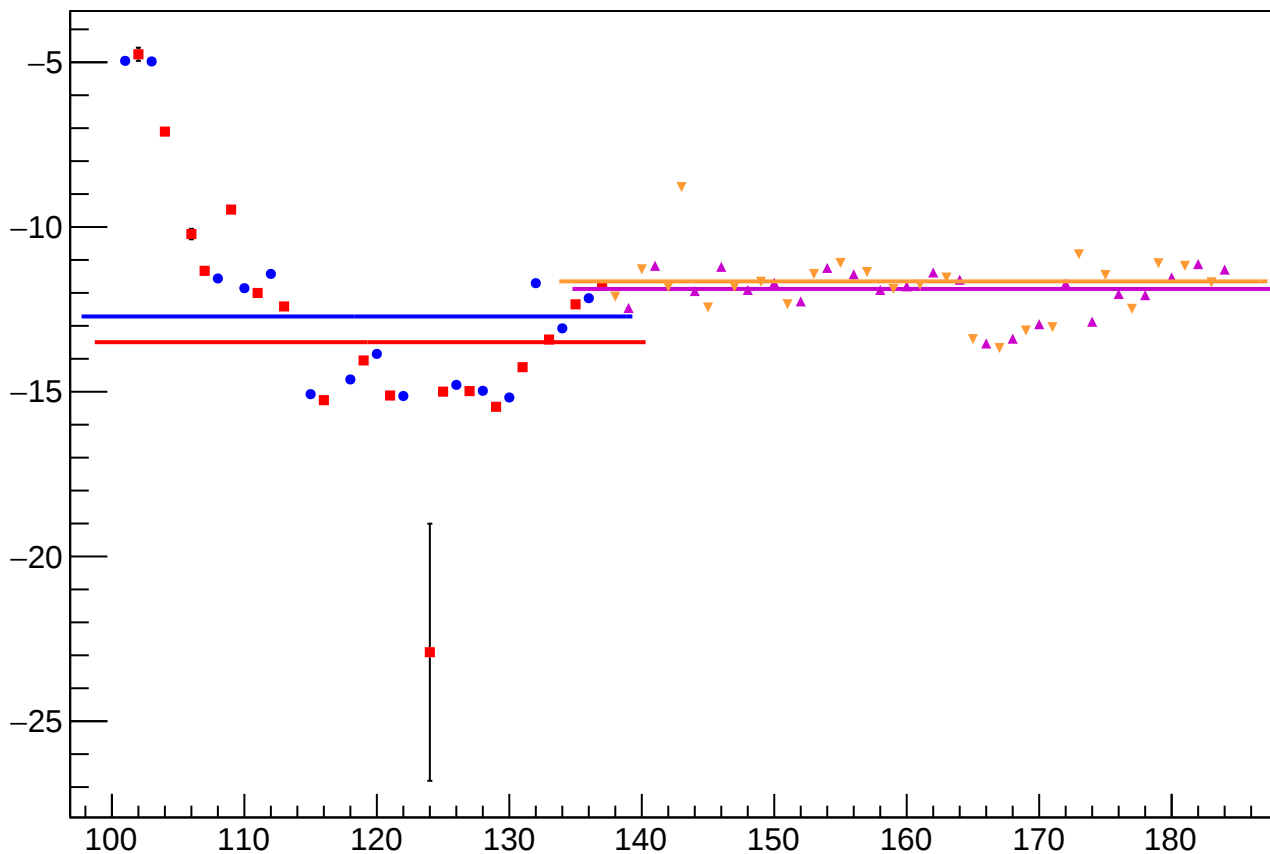
Left In:  $6.128 \pm 0.002$   $\chi^2/\text{NDF}$ : 56126.9/22

+ sign  $6.311 \pm 0.001$   $\chi^2/\text{NDF}$ : 216548.5/38

All:  $5.997 \pm 0.000$   $\chi^2/\text{NDF}$ : 503499.7/79

- sign  $5.973 \pm 0.000$   $\chi^2/\text{NDF}$ : 235822.1/40

dit\_sam7\_4eY\_slope vs Slug



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}$ : 85219.4/14

Left Out:  $-11.651 \pm 0.002$   $\chi^2/\text{NDF}$ : 344023.2/23

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}$ : 55753.8/17

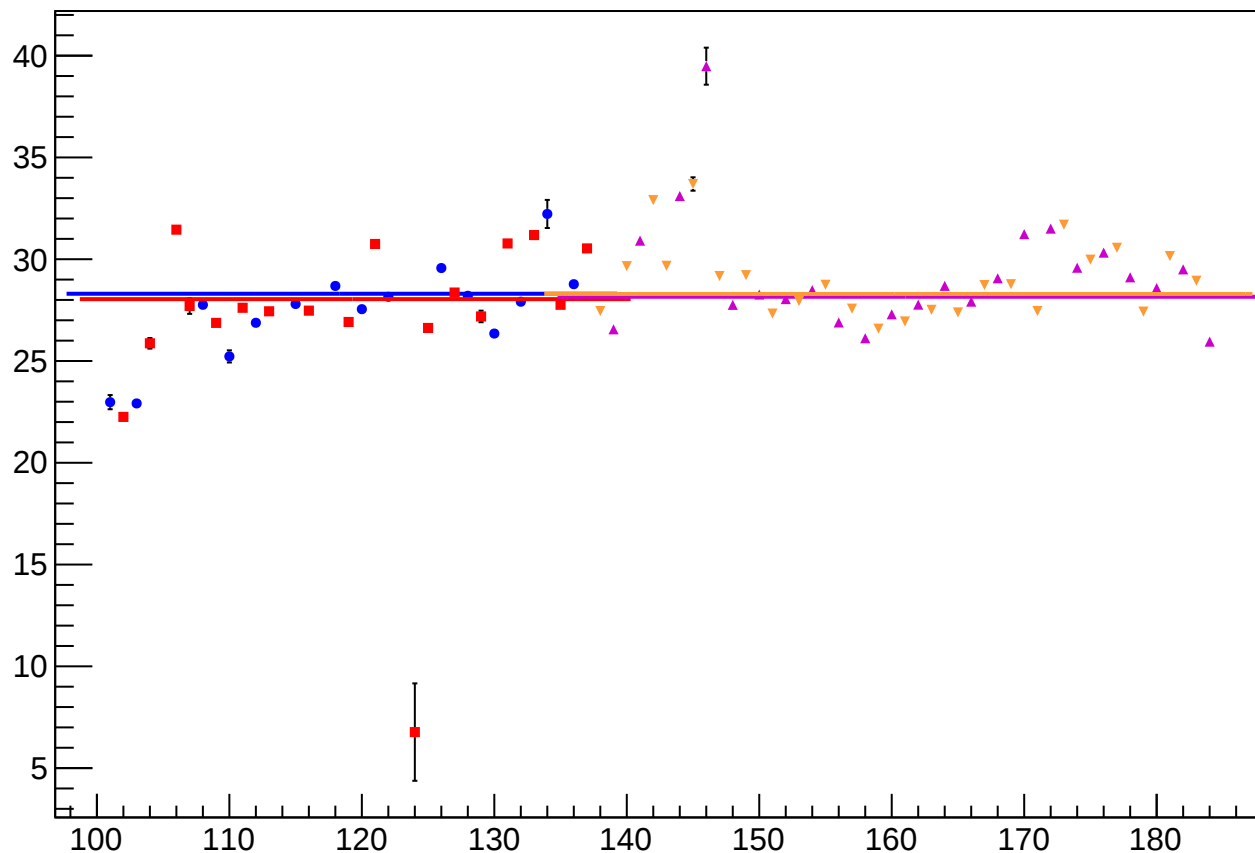
Left In:  $-11.880 \pm 0.002$   $\chi^2/\text{NDF}$ : 66782.1/22

+ sign  $-11.753 \pm 0.002$   $\chi^2/\text{NDF}$ : 454414.2/38

All:  $-11.910 \pm 0.001$   $\chi^2/\text{NDF}$ : 657889.4/79

- sign  $-12.067 \pm 0.002$   $\chi^2/\text{NDF}$ : 190907.6/40

# dit\_sam8\_4aX\_slope vs Slug



Right In: 28.304 $\pm$ 0.023  $\chi^2$ /NDF: 3400.0/14

Left Out: 28.292 $\pm$ 0.018  $\chi^2$ /NDF: 6730.8/23

Right Out: 28.040 $\pm$ 0.030  $\chi^2$ /NDF: 2561.5/17

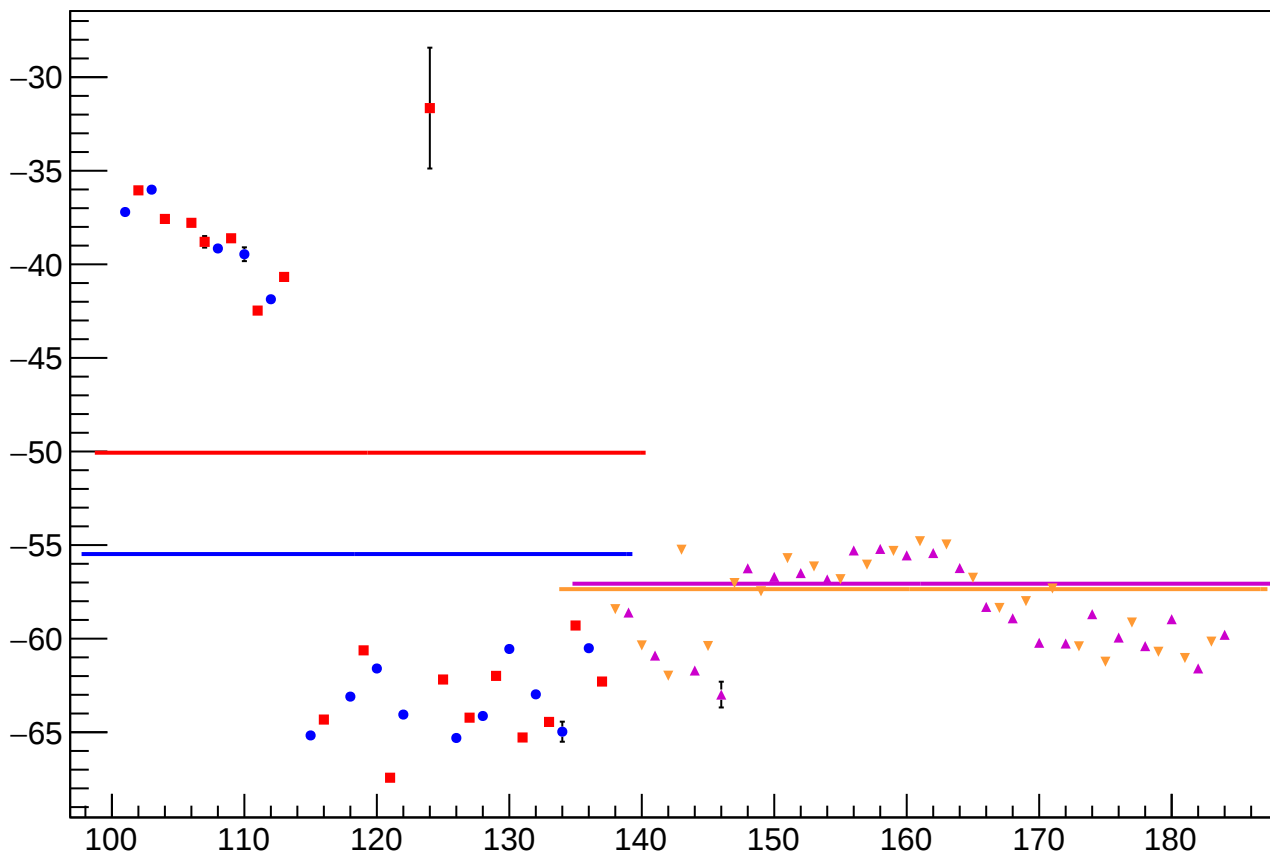
Left In: 28.156 $\pm$ 0.015  $\chi^2$ /NDF: 9251.0/22

+ sign 28.297 $\pm$ 0.014  $\chi^2$ /NDF: 10131.0/38

All: 28.210 $\pm$ 0.010  $\chi^2$ /NDF: 22027.0/79

- sign 28.133 $\pm$ 0.013  $\chi^2$ /NDF: 11824.3/40

# dit\_sam8\_4eX\_slope vs Slug



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}: 595140.3/14$

Left Out:  $-57.355 \pm 0.014$   $\chi^2/\text{NDF}: 22950.8/23$

Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}: 340098.3/17$

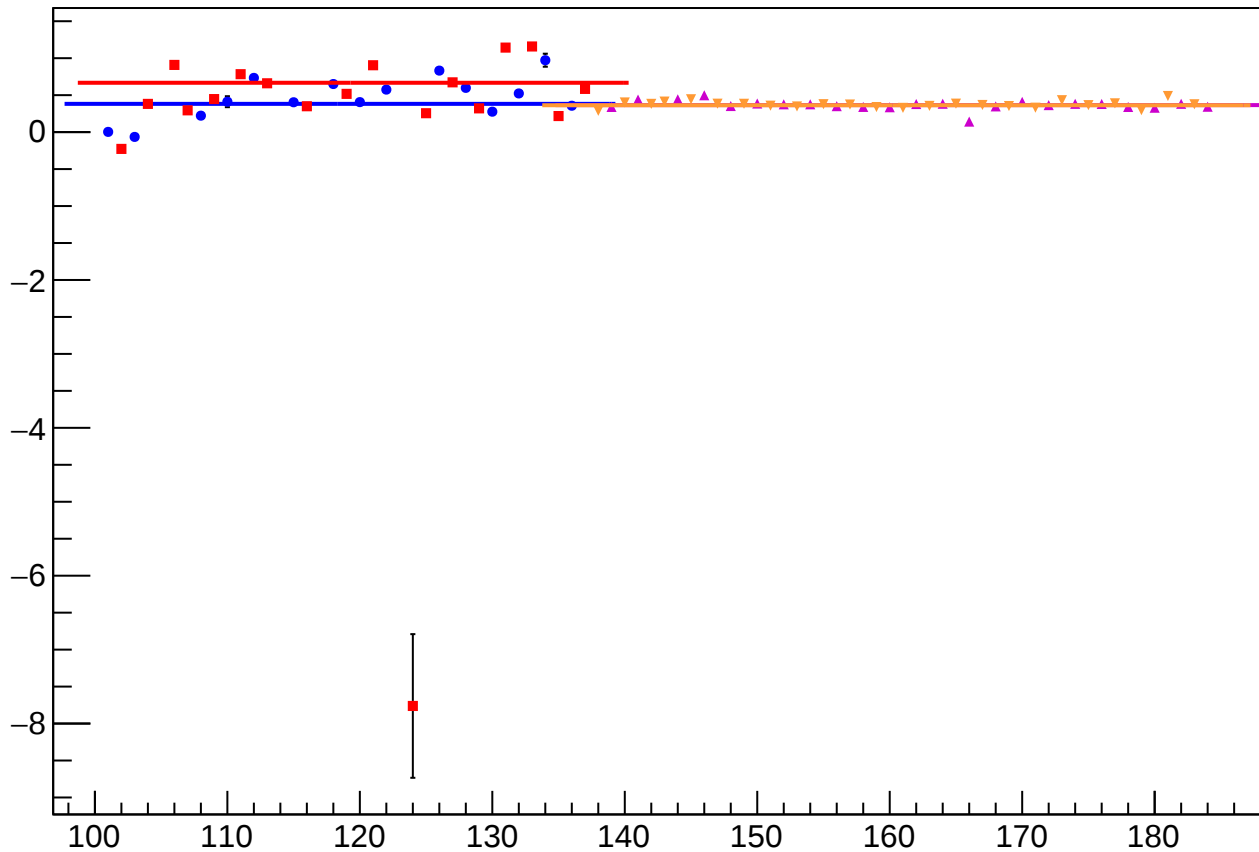
Left In:  $-57.064 \pm 0.013$   $\chi^2/\text{NDF}: 19679.5/22$

+ sign  $-56.542 \pm 0.011$   $\chi^2/\text{NDF}: 625346.2/38$

All:  $-56.003 \pm 0.008$   $\chi^2/\text{NDF}: 1060471.6/79$

- sign  $-55.442 \pm 0.011$   $\chi^2/\text{NDF}: 430149.0/40$

# dit\_sam8\_11X12X\_slope vs Slug



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}$ : 4595.8/14

Left Out:  $0.364 \pm 0.000$   $\chi^2/\text{NDF}$ : 8225.1/23

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}$ : 3704.8/17

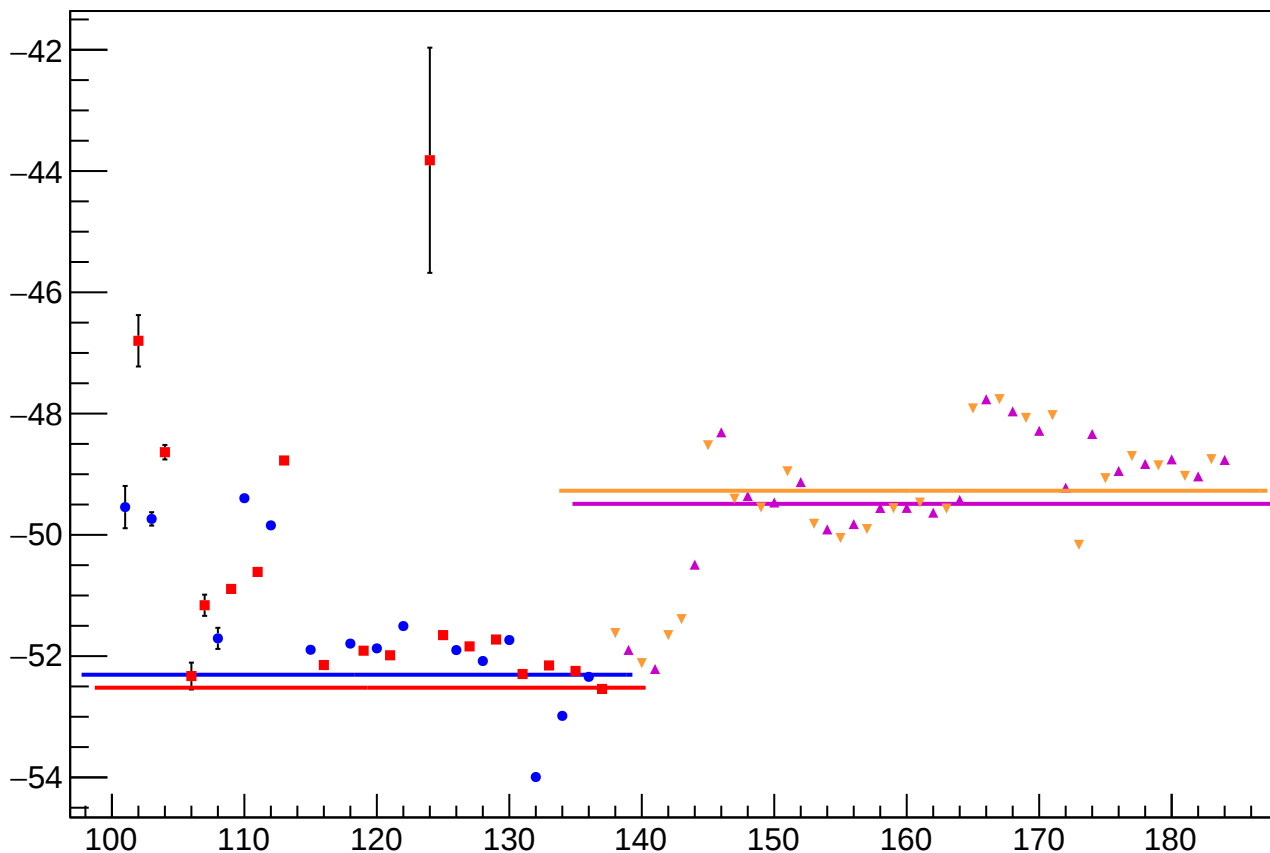
Left In:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}$ : 6174.1/22

+ sign  $0.364 \pm 0.000$   $\chi^2/\text{NDF}$ : 12950.3/38

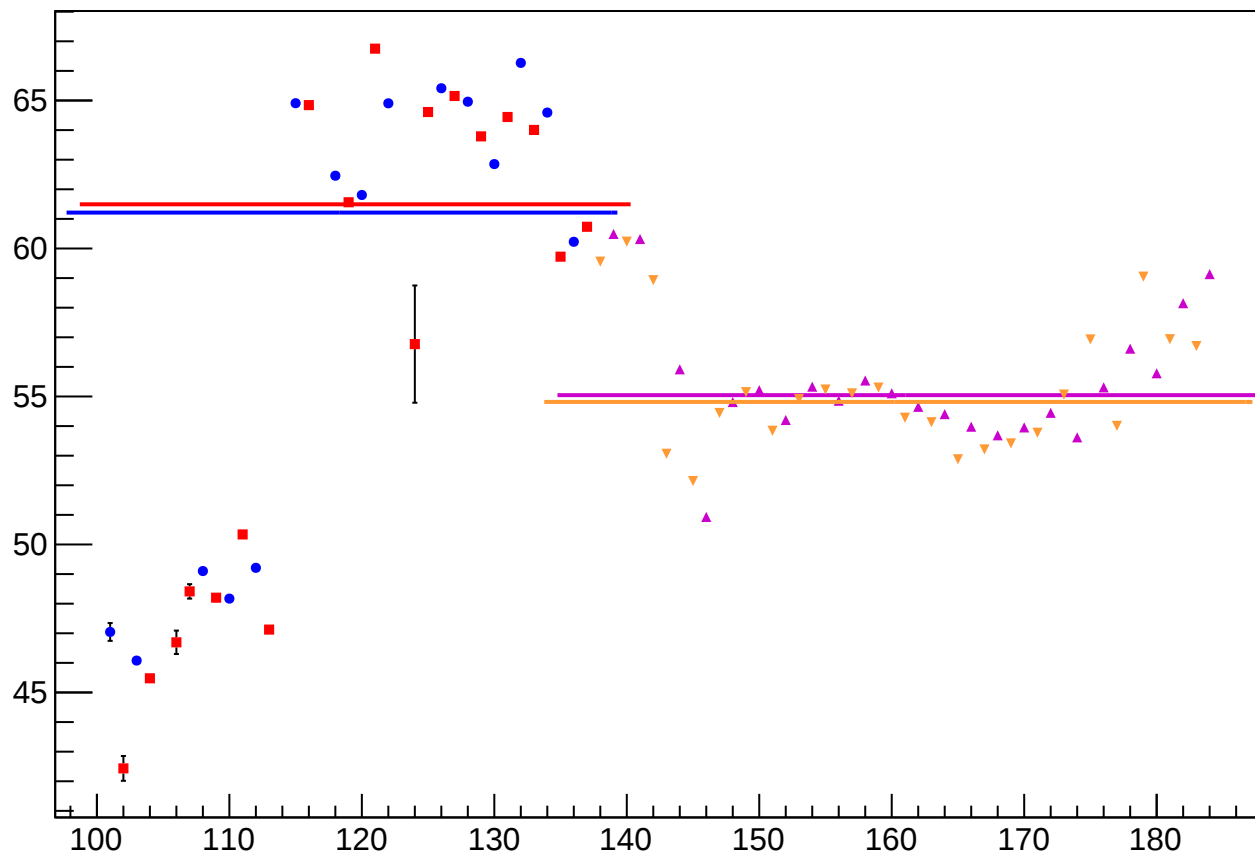
All:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 27139.7/79

- sign  $0.367 \pm 0.000$   $\chi^2/\text{NDF}$ : 14159.2/40

# dit\_sam8\_4aY\_slope vs Slug



# dit\_sam8\_4eY\_slope vs Slug



Right In: 61.213 $\pm$ 0.010  $\chi^2$ /NDF: 156624.5/14

Left Out: 54.816 $\pm$ 0.003  $\chi^2$ /NDF: 269519.2/23

Right Out: 61.493 $\pm$ 0.007  $\chi^2$ /NDF: 243479.8/17

Left In: 55.045 $\pm$ 0.003  $\chi^2$ /NDF: 88930.1/22

+ sign 55.406 $\pm$ 0.003  $\chi^2$ /NDF: 803035.9/38

All: 55.764 $\pm$ 0.002  $\chi^2$ /NDF: 1940015.7/79

- sign 56.037 $\pm$ 0.003  $\chi^2$ /NDF: 1112127.8/40

# dit\_4aX\_coil1\_mean vs Slug



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

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

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

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

dit\_4aX\_coil1\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_4aX\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4eX\_coil1\_mean vs Slug



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

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

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

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

dit\_4eX\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_4eX\_coil1\_Ndata\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil1\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil1\_Ndata\_mean vs Slug



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

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

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

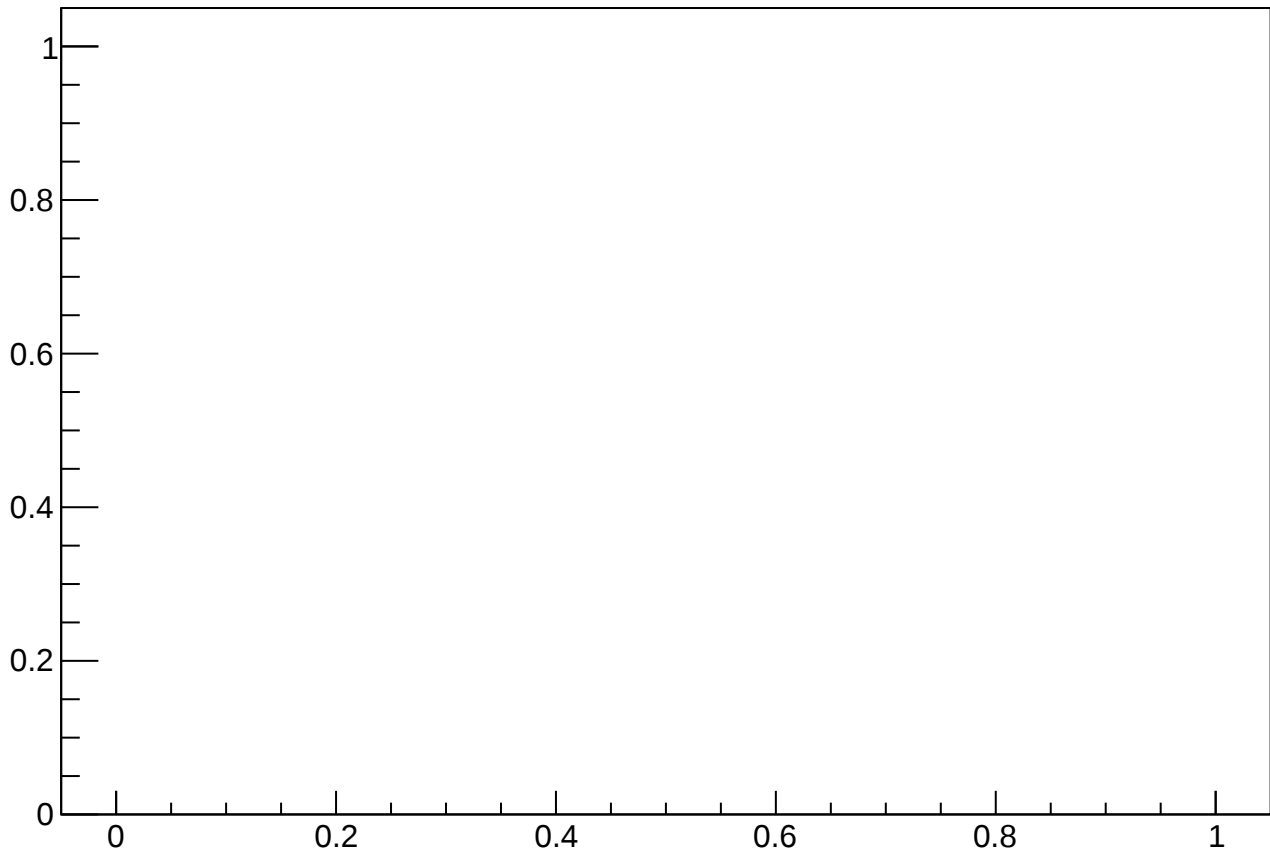
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aY\_coil1\_mean vs Slug



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

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

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

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

dit\_4aY\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_4aY\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4eY\_coil1\_mean vs Slug



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

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

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

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

dit\_4eY\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_4eY\_coil1\_Ndata\_mean vs Slug



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

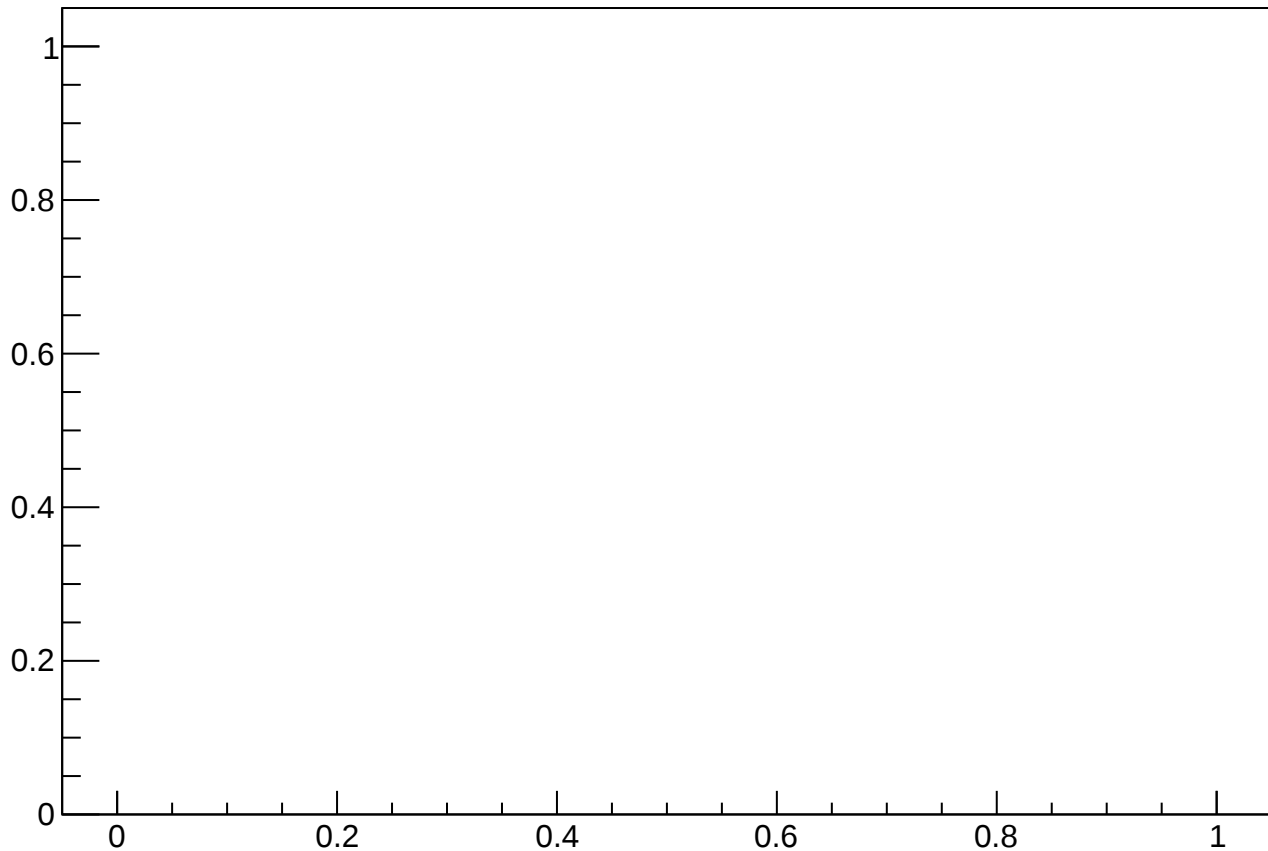
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_usl\_coil1\_mean vs Slug



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

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

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

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

# dit\_usl\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_usl\_coil1\_Ndata\_mean vs Slug



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

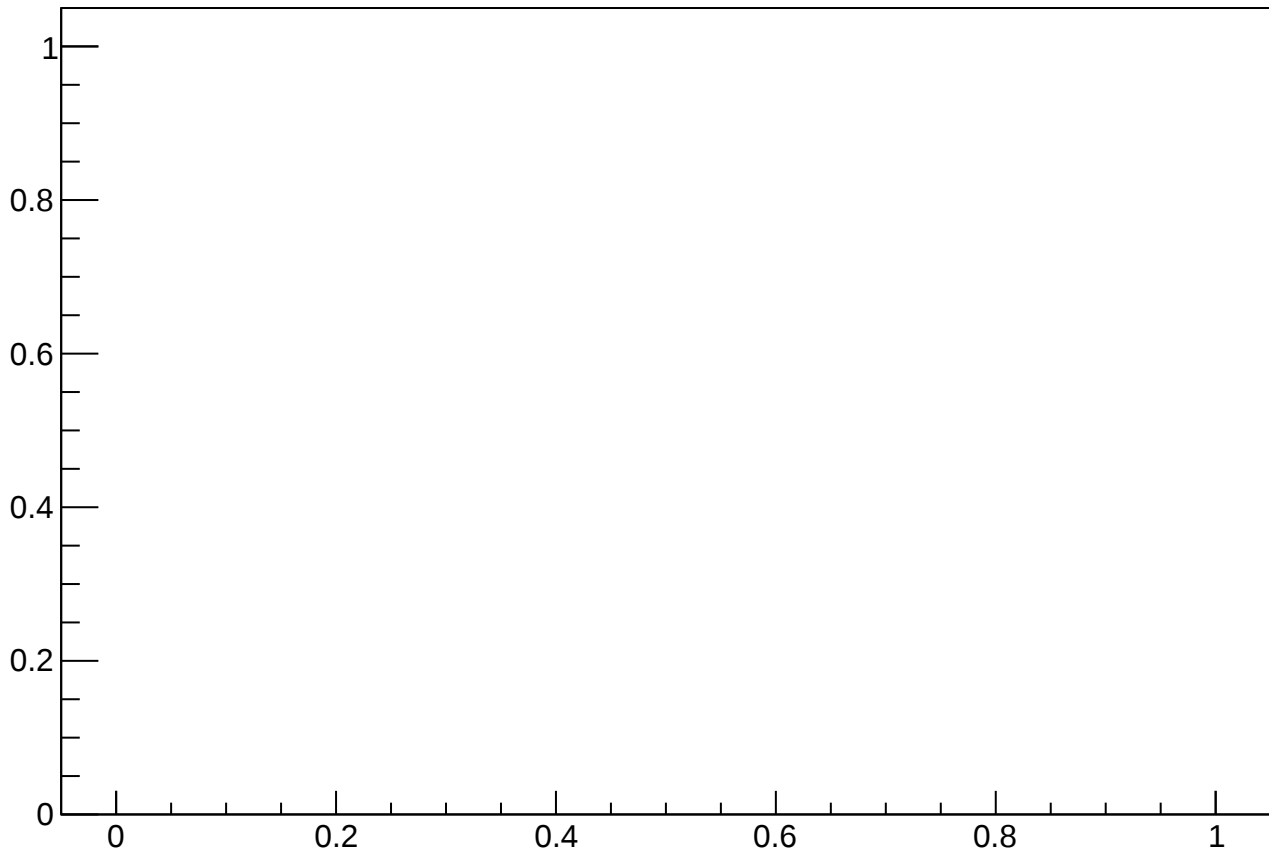
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_usr\_coil1\_mean vs Slug



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

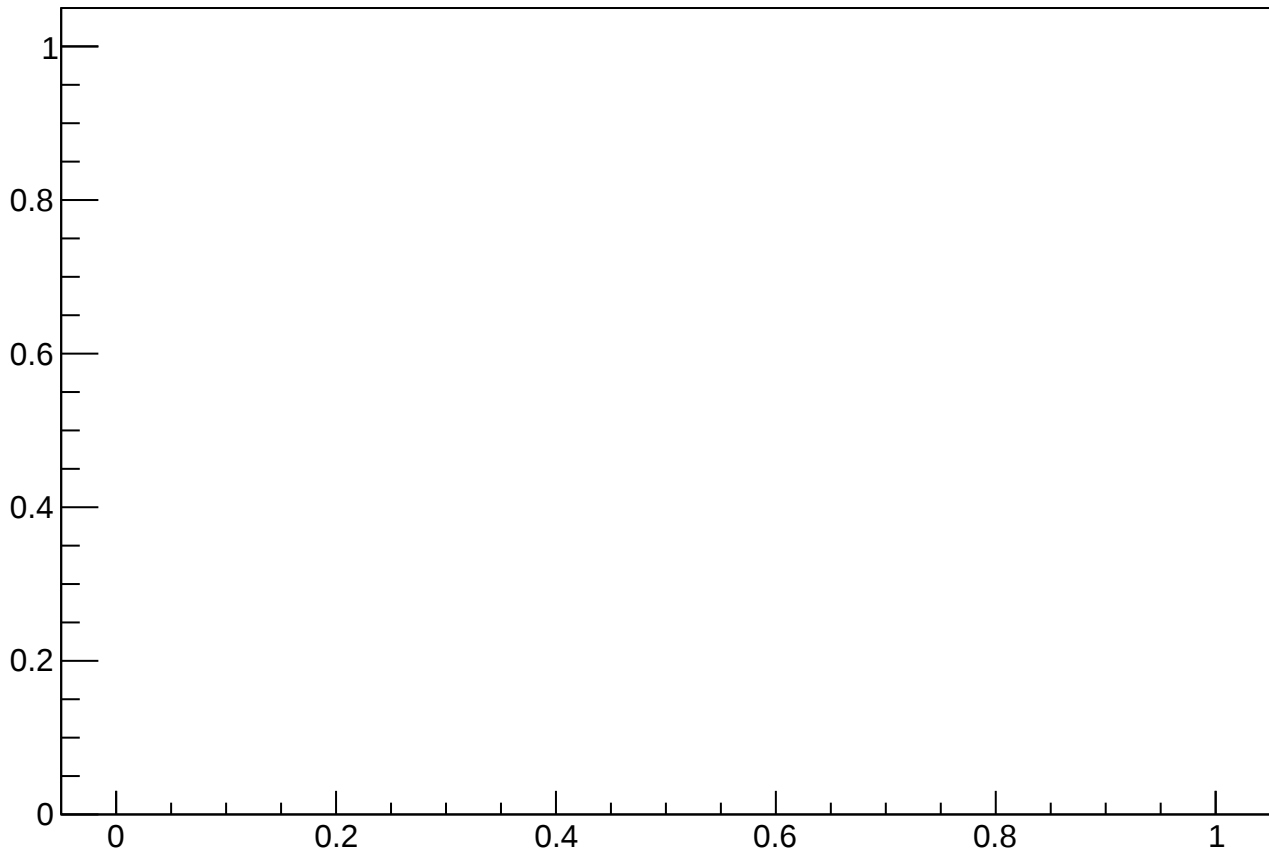
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_usr\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_usr\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atl1\_coil1\_mean vs Slug



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

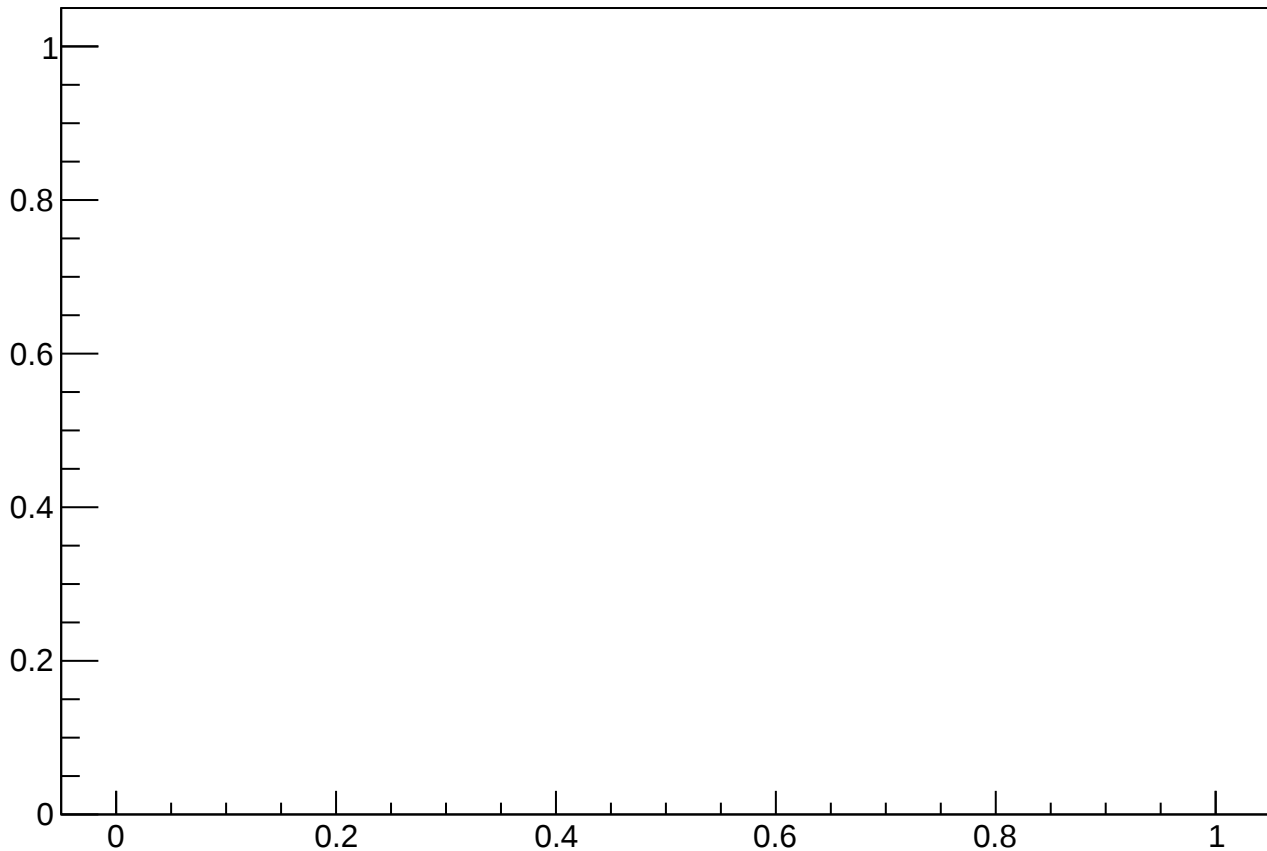
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_atl1\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_atl1\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atl2\_coil1\_mean vs Slug



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

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

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

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

dit\_atl2\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_atl2\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atr1\_coil1\_mean vs Slug



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

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

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

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

dit\_atr1\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_atr1\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atr2\_coil1\_mean vs Slug



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

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

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

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

dit\_atr2\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_atr2\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam1\_coil1\_mean vs Slug



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

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

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

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

dit\_sam1\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_sam1\_coil1\_Ndata\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam2\_coil1\_mean vs Slug



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

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

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

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

dit\_sam2\_coil1\_err\_mean vs Slug



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

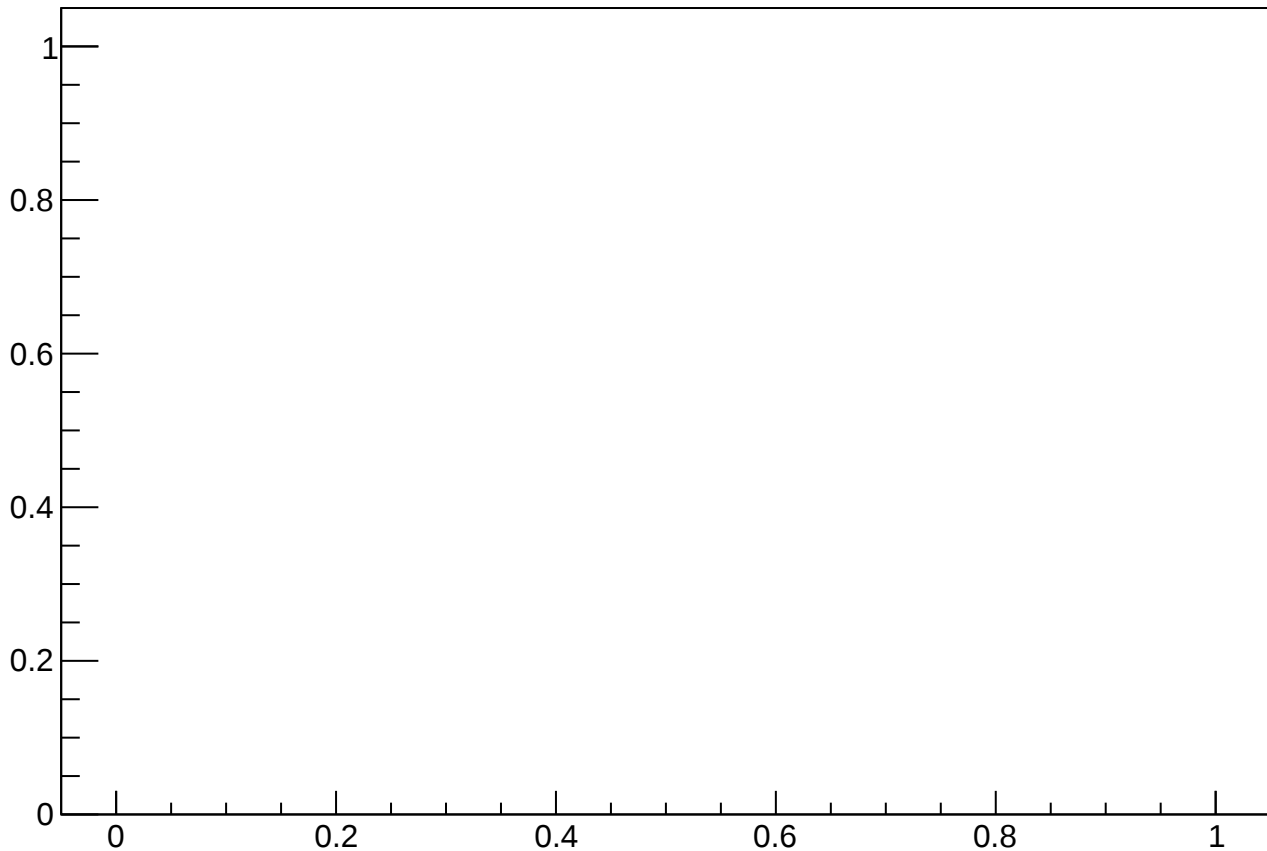
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_sam2\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam3\_coil1\_mean vs Slug



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

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

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

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

dit\_sam3\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_sam3\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam4\_coil1\_mean vs Slug



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

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

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

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

dit\_sam4\_coil1\_err\_mean vs Slug



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

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

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

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

# dit\_sam4\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam5\_coil1\_mean vs Slug



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

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

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

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

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

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

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

dit\_sam5\_coil1\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam5\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam6\_coil1\_mean vs Slug



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

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

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

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

# dit\_sam6\_coil1\_err\_mean vs Slug



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

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

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

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

dit\_sam6\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam7\_coil1\_mean vs Slug



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

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

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

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

# dit\_sam7\_coil1\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam7\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam8\_coil1\_mean vs Slug



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

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

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

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

dit\_sam8\_coil1\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam8\_coil1\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4aX\_coil3\_mean vs Slug



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

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

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

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

dit\_4aX\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_4aX\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4eX\_coil3\_mean vs Slug



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

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

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

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

dit\_4eX\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_4eX\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_11X12X\_coil3\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil3\_Ndata\_mean vs Slug



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

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

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

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

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

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

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

# dit\_4aY\_coil3\_mean vs Slug



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

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

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

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

dit\_4aY\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_4aY\_coil3\_Ndata\_mean vs Slug



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

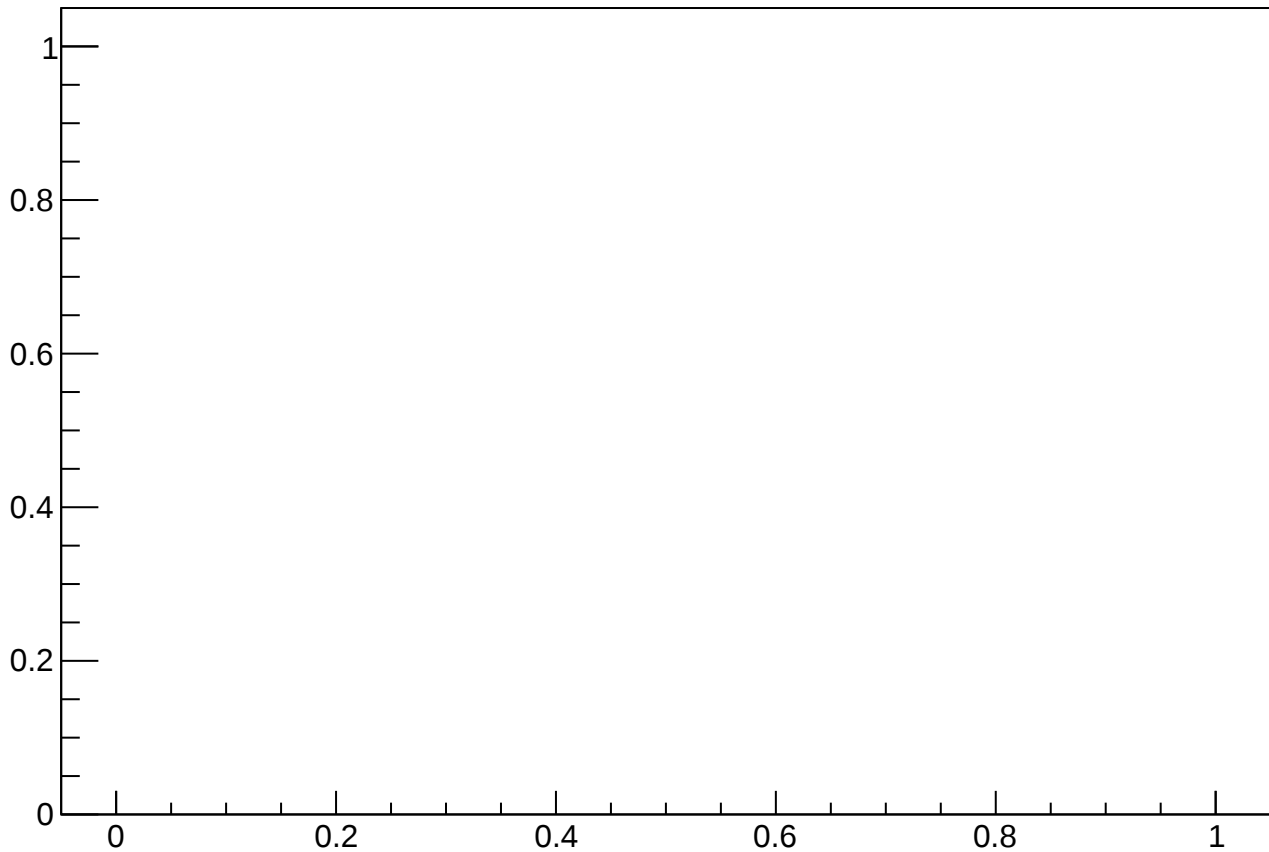
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_4eY\_coil3\_mean vs Slug



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

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

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

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

dit\_4eY\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_4eY\_coil3\_Ndata\_mean vs Slug



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

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

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

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

dit\_usl\_coil3\_mean vs Slug



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

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

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

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

# dit\_usl\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_usl\_coil3\_Ndata\_mean vs Slug



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

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

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

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

dit\_usr\_coil3\_mean vs Slug



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

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

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

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

# dit\_usr\_coil3\_err\_mean vs Slug



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

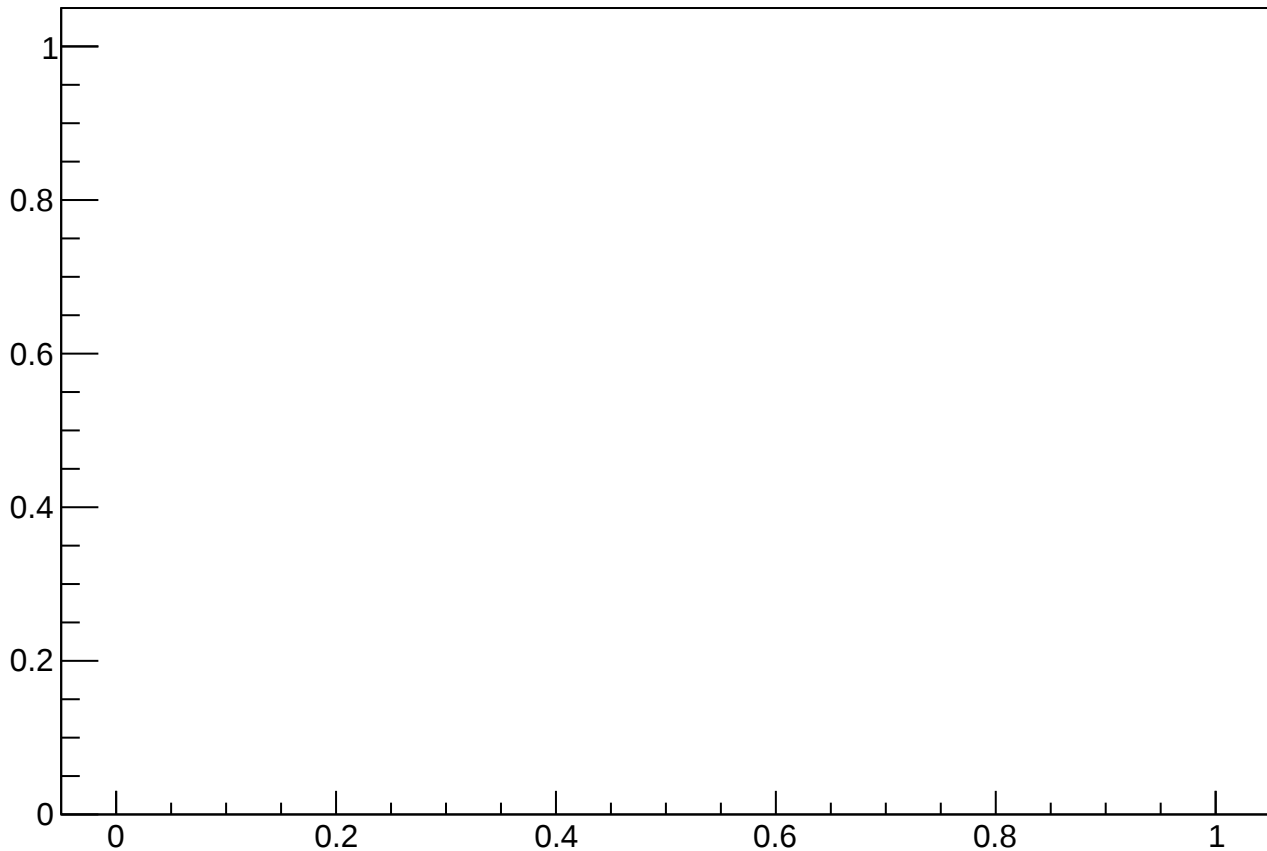
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_usr\_coil3\_Ndata\_mean vs Slug



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

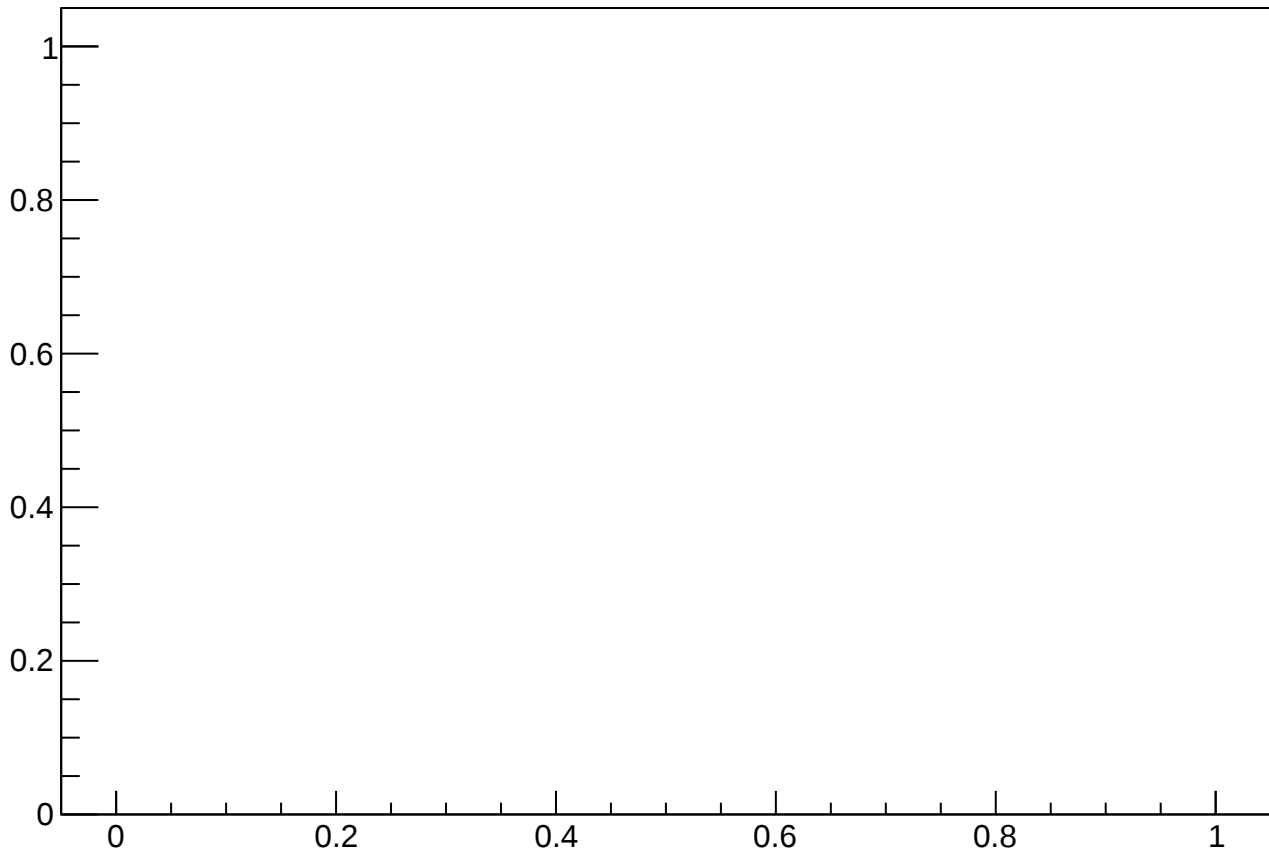
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

# dit\_atl1\_coil3\_mean vs Slug



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

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

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

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

dit\_atl1\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_atl1\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atl2\_coil3\_mean vs Slug



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

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

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

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

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

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

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

dit\_atl2\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_atl2\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atr1\_coil3\_mean vs Slug



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

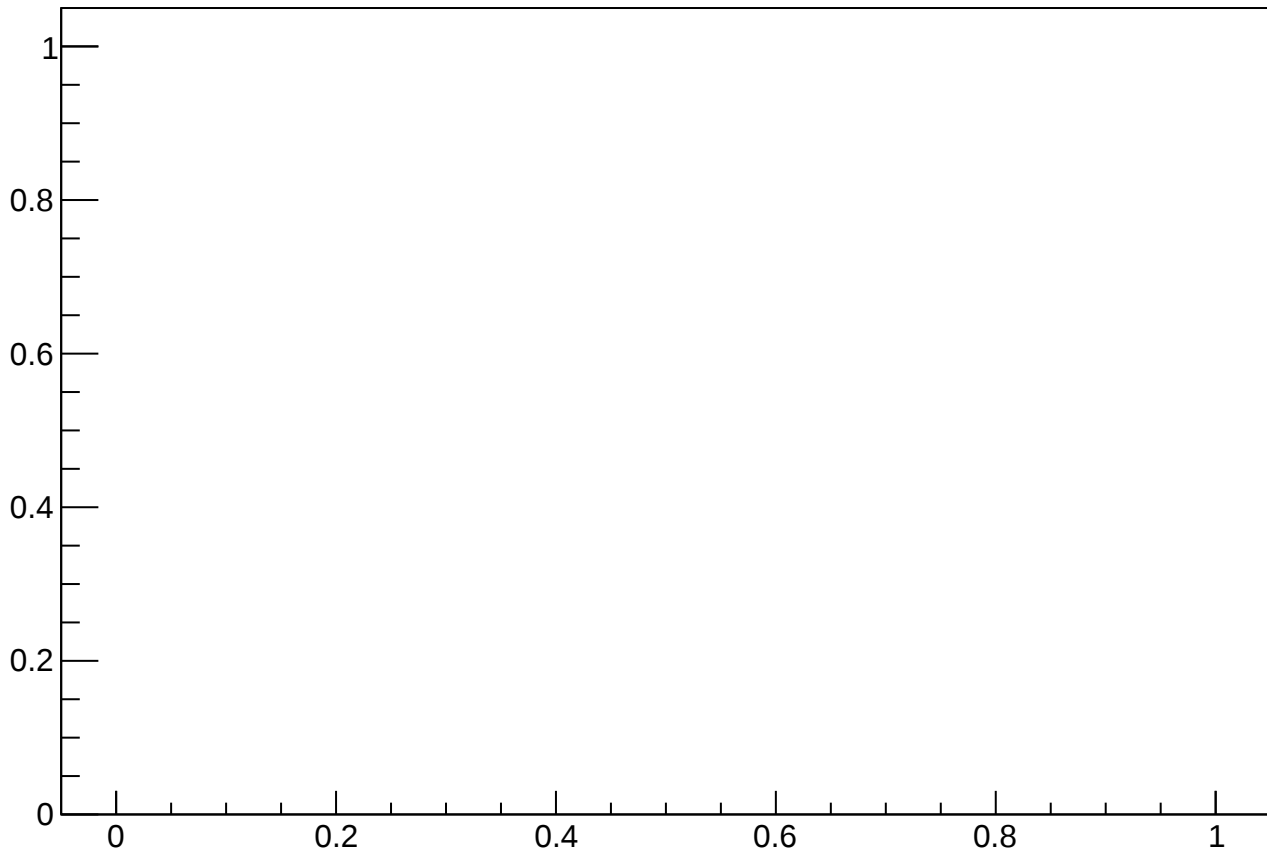
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_atr1\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_atr1\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atr2\_coil3\_mean vs Slug



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

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

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

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

dit\_atr2\_coil3\_err\_mean vs Slug



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

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

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

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

dit\_atr2\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam1\_coil3\_mean vs Slug



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

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

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

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

dit\_sam1\_coil3\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam1\_coil3\_Ndata\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam2\_coil3\_mean vs Slug



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

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

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

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

dit\_sam2\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_sam2\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam3\_coil3\_mean vs Slug



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

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

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

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

dit\_sam3\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_sam3\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam4\_coil3\_mean vs Slug



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

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

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

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

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

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

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

dit\_sam4\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_sam4\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam5\_coil3\_mean vs Slug



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

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

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

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

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

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

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

dit\_sam5\_coil3\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam5\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam6\_coil3\_mean vs Slug



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

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

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

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

dit\_sam6\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_sam6\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_sam7\_coil3\_mean vs Slug



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

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

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

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

dit\_sam7\_coil3\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam7\_coil3\_Ndata\_mean vs Slug



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

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

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

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

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

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

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

# dit\_sam8\_coil3\_mean vs Slug



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

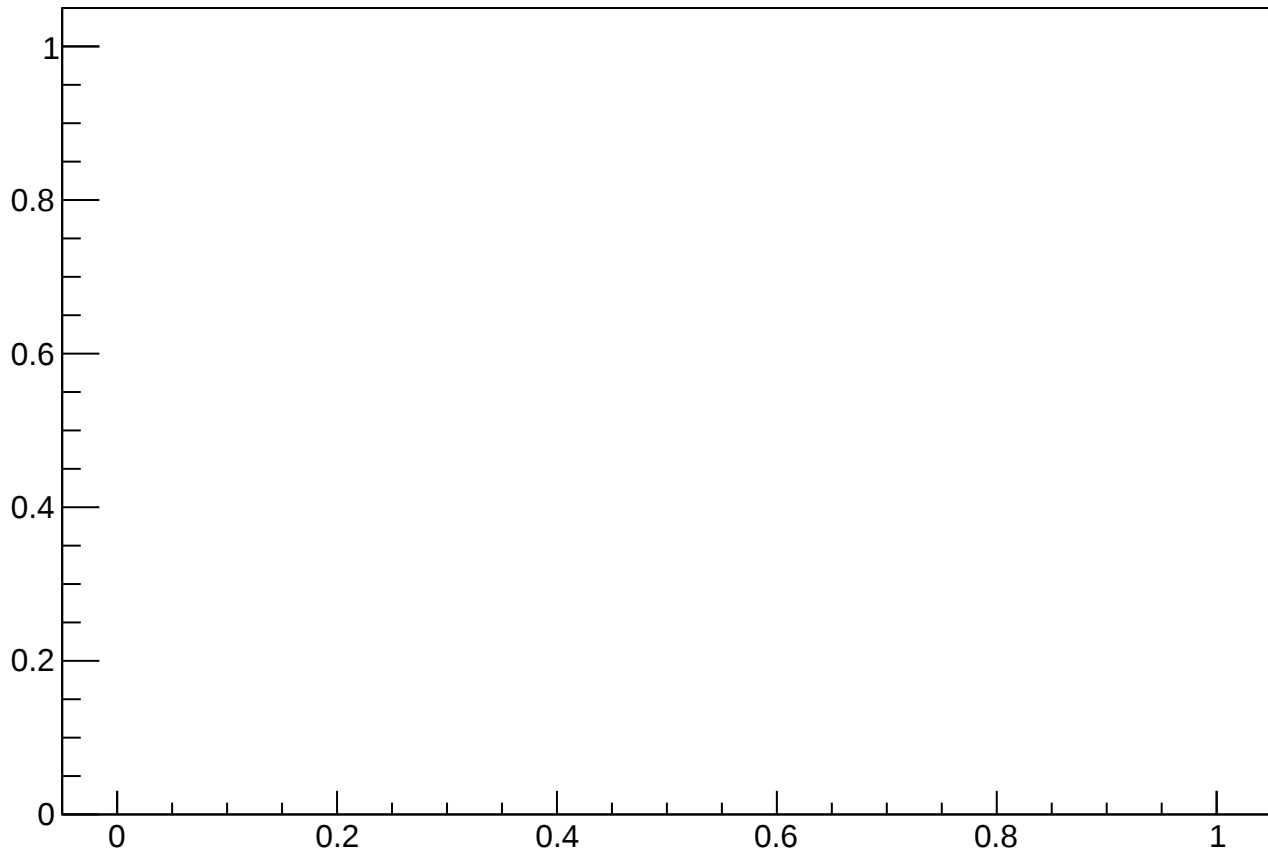
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

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

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

dit\_sam8\_coil3\_err\_mean vs Slug



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

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

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

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

# dit\_sam8\_coil3\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4aX\_coil7\_mean vs Slug



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

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

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

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

dit\_4aX\_coil7\_err\_mean vs Slug



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

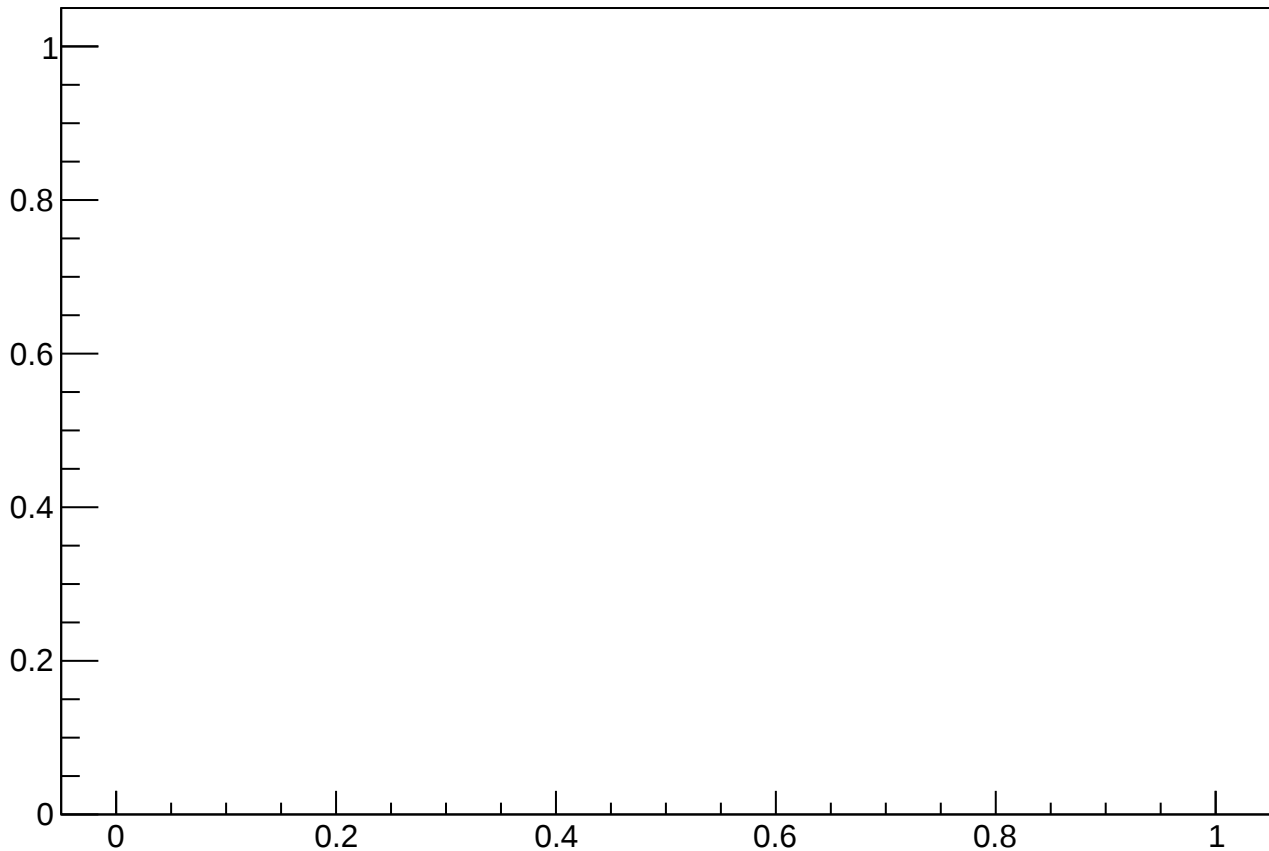
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# dit\_4aX\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4eX\_coil7\_mean vs Slug



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

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

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

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

dit\_4eX\_coil7\_err\_mean vs Slug



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

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

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

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

# dit\_4eX\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_11X12X\_coil7\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_11X12X\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4aY\_coil7\_mean vs Slug



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

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

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

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

dit\_4aY\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_4aY\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_4eY\_coil7\_mean vs Slug



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

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

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

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

dit\_4eY\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_4eY\_coil7\_Ndata\_mean vs Slug



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

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

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

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

dit\_usl\_coil7\_mean vs Slug



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

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

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

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

# dit\_usl\_coil7\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_usl\_coil7\_Ndata\_mean vs Slug



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

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

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

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

dit\_usr\_coil7\_mean vs Slug



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

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

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

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

# dit\_usr\_coil7\_err\_mean vs Slug



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

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

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

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

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

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

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

# dit\_usr\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atl1\_coil7\_mean vs Slug



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

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

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

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

dit\_atl1\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_atl1\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atl2\_coil7\_mean vs Slug



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

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

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

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

dit\_atl2\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_atl2\_coil7\_Ndata\_mean vs Slug



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

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

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

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

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

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

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

# dit\_atr1\_coil7\_mean vs Slug



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

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

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

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

dit\_atr1\_coil7\_err\_mean vs Slug



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

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

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

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

dit\_atr1\_coil7\_Ndata\_mean vs Slug



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

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

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

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

# dit\_atr2\_coil7\_mean vs Slug



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

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

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam8\_coil7\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_err\_mean vs Slug



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

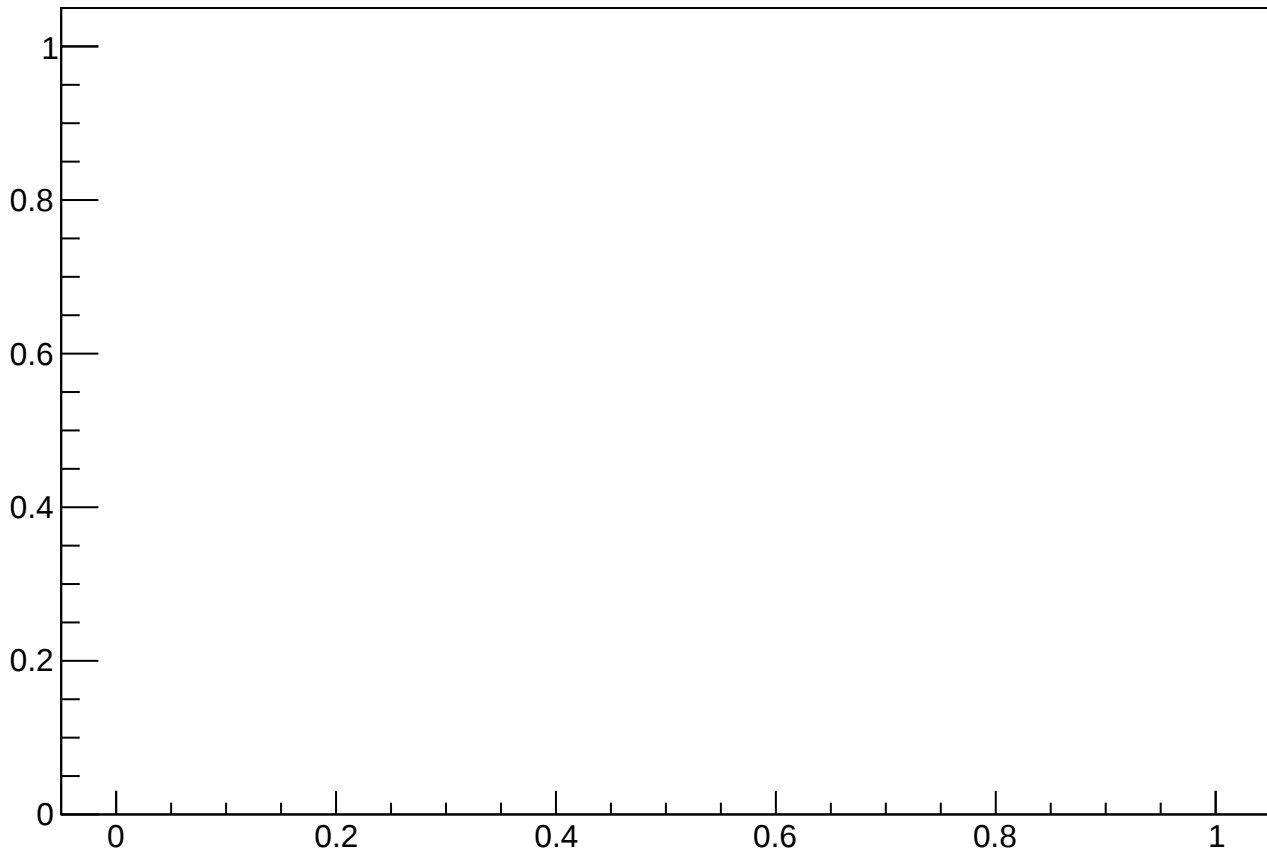
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_Ndata\_mean vs Slug



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

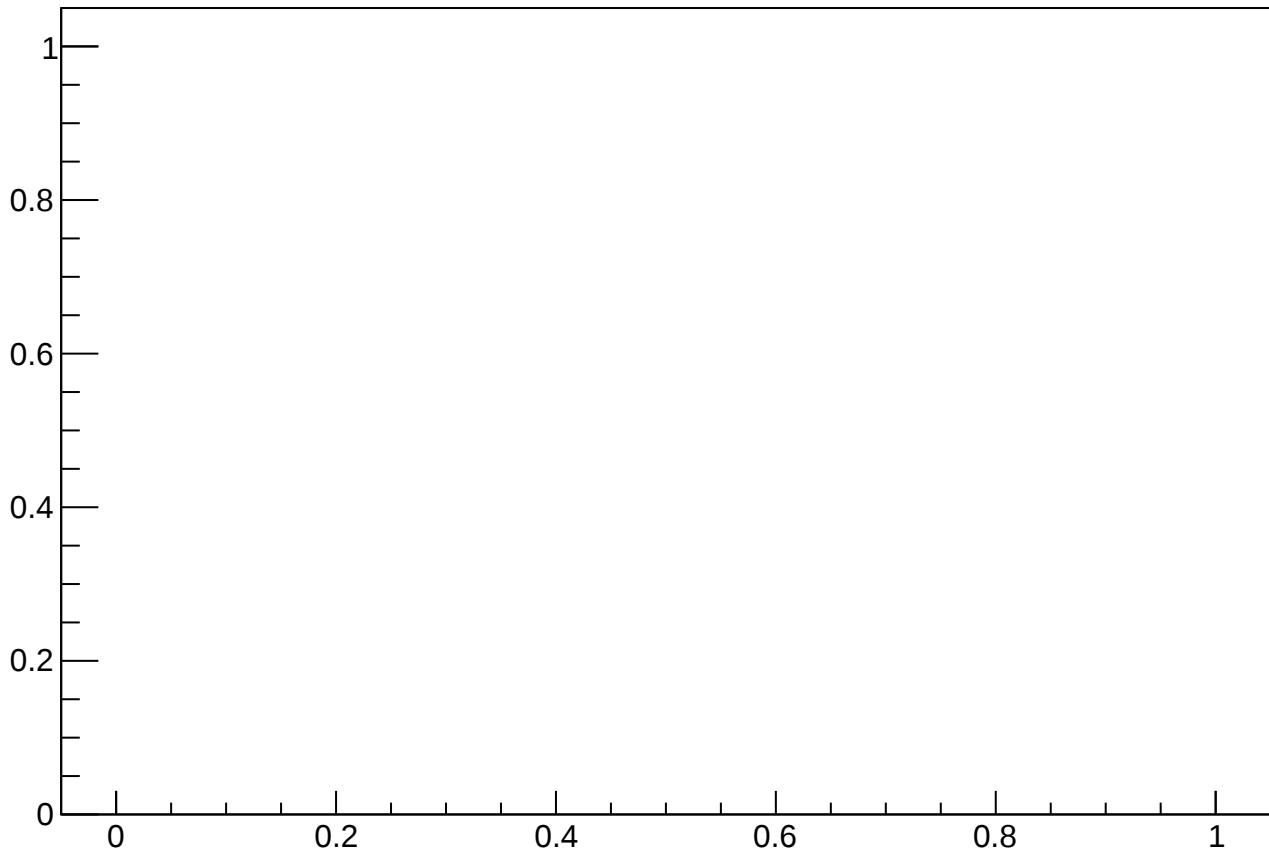
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil4\_mean vs Slug



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

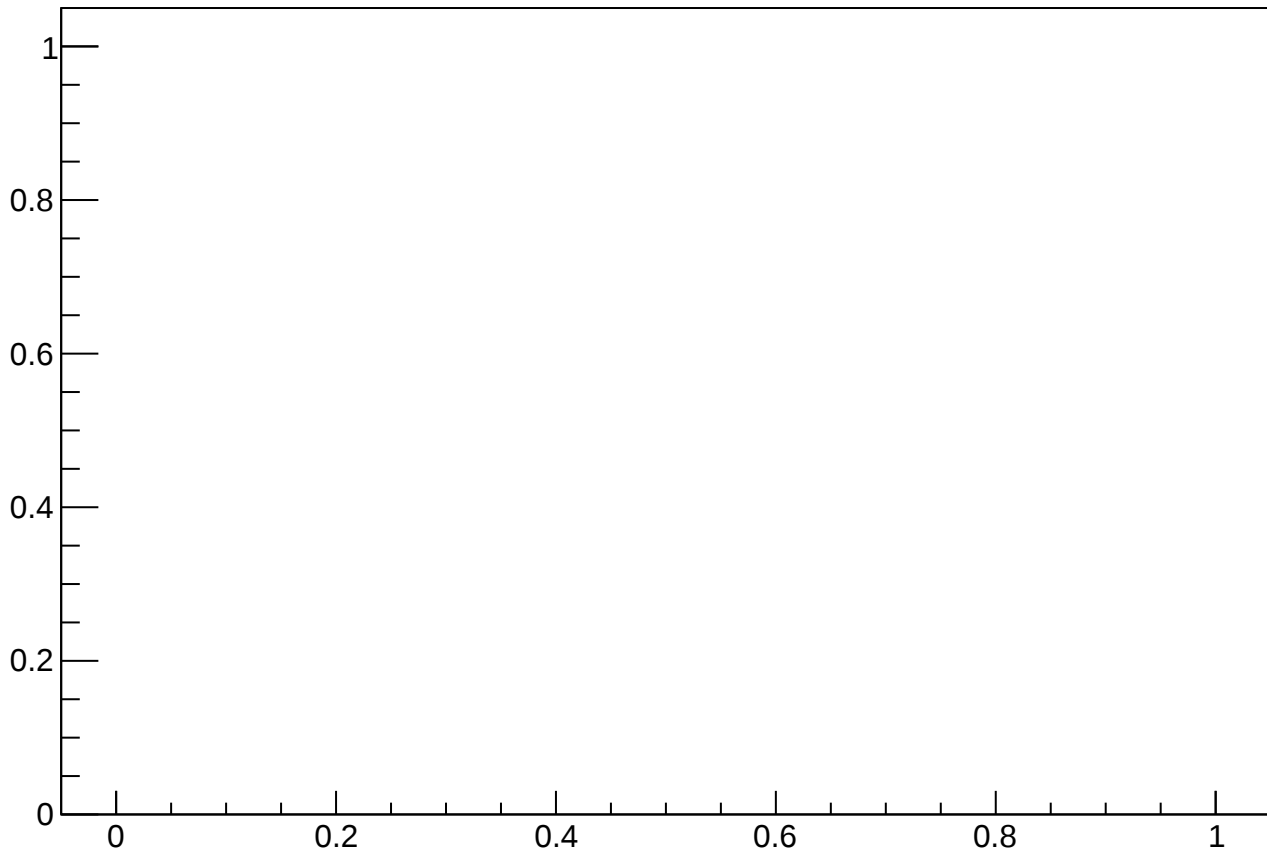
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usl\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil4\_Ndata\_mean vs Slug



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

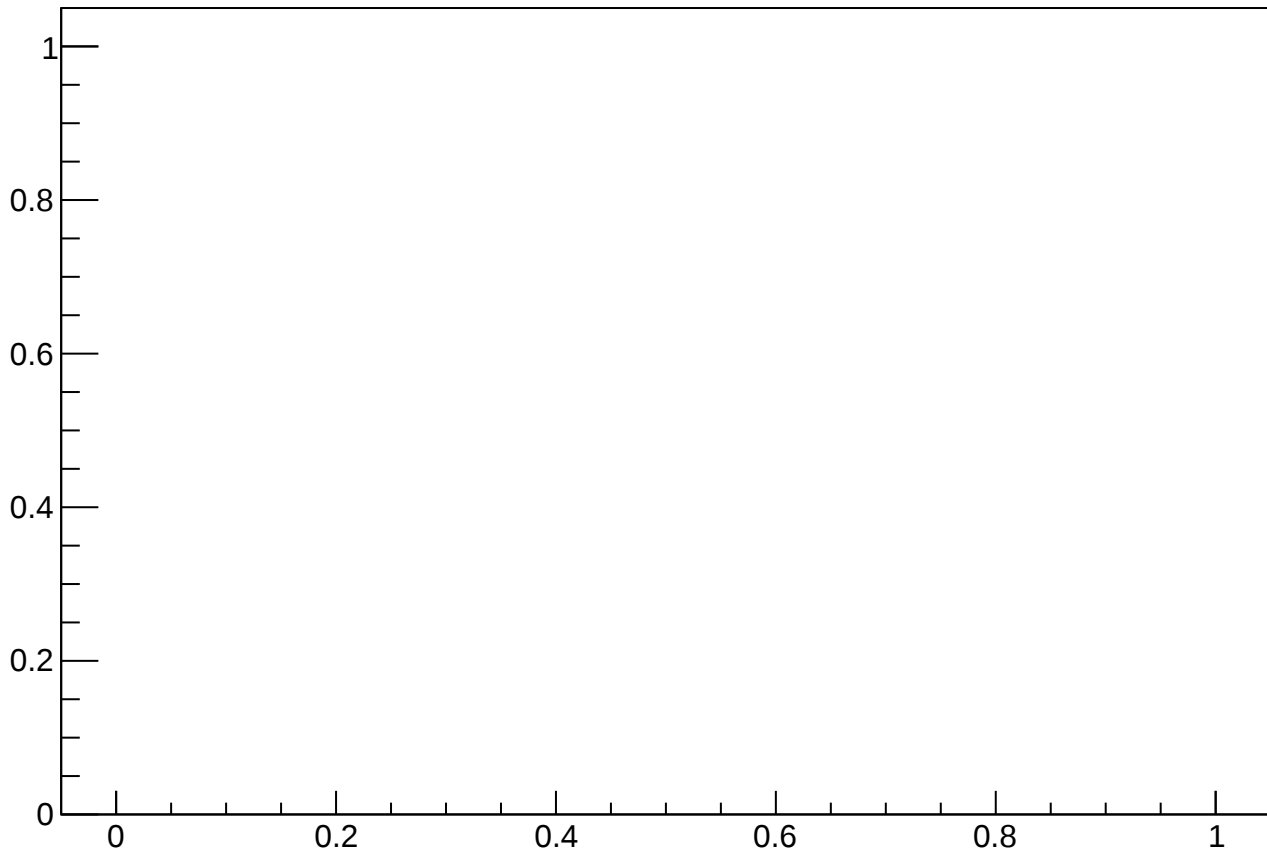
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil4\_mean vs Slug



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

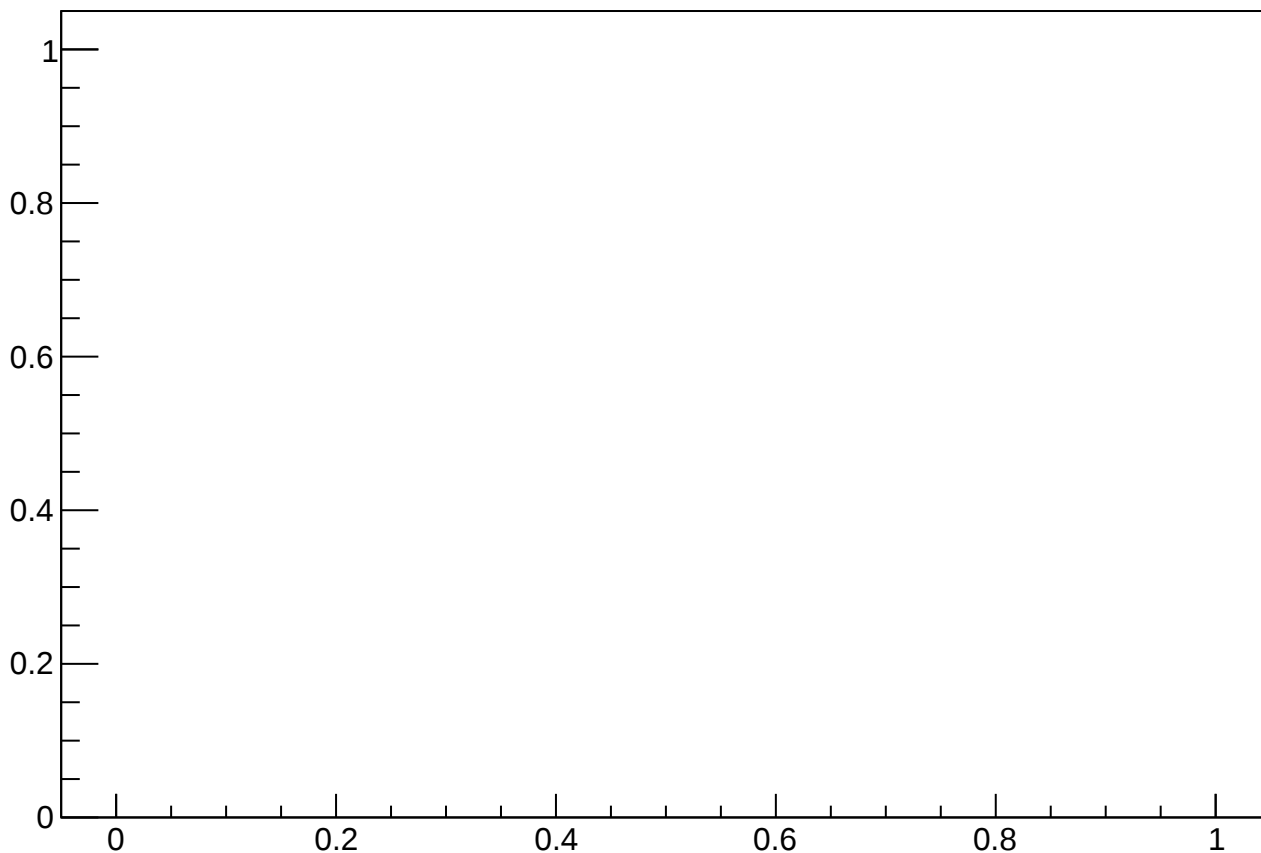
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam3\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil4\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil4\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil4\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aX\_coil6\_Ndata\_mean vs Slug



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

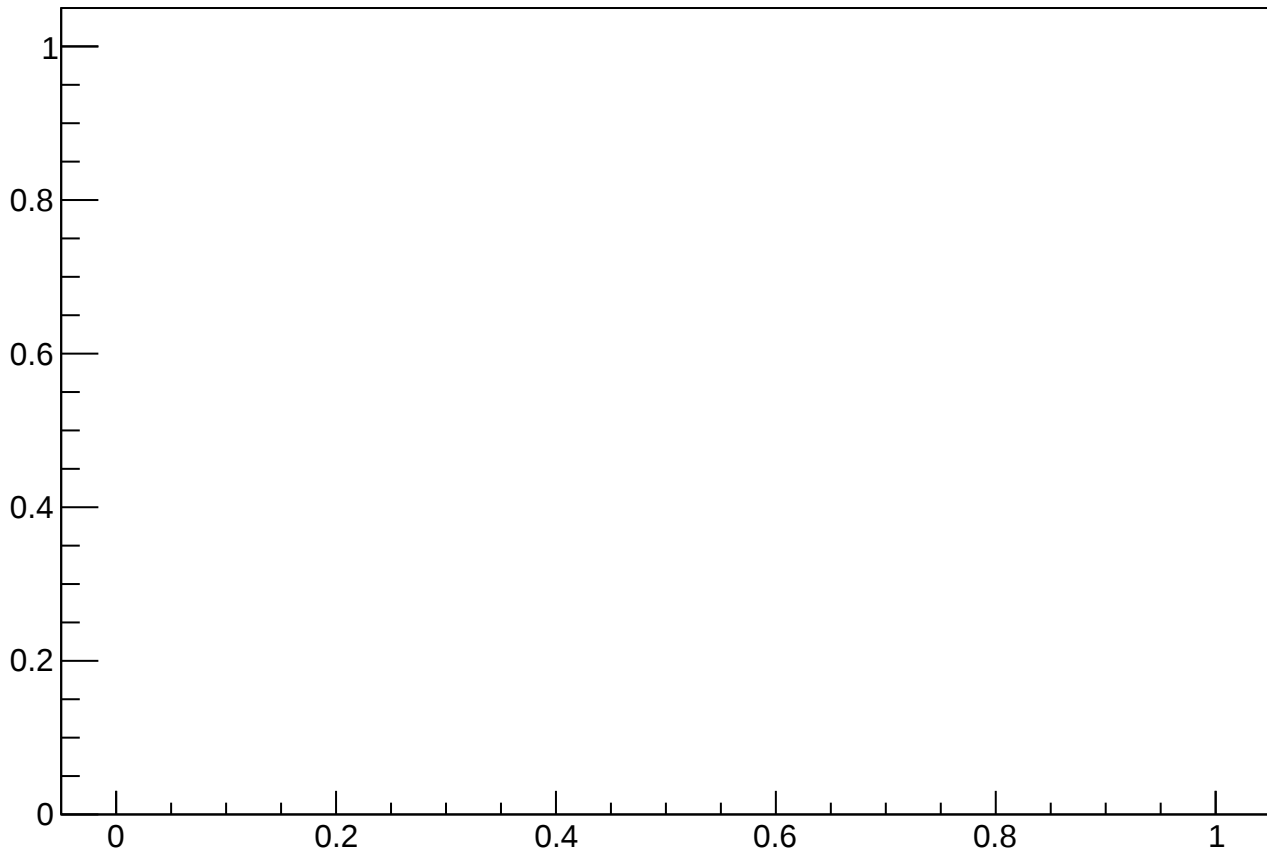
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil6\_Ndata\_mean vs Slug



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

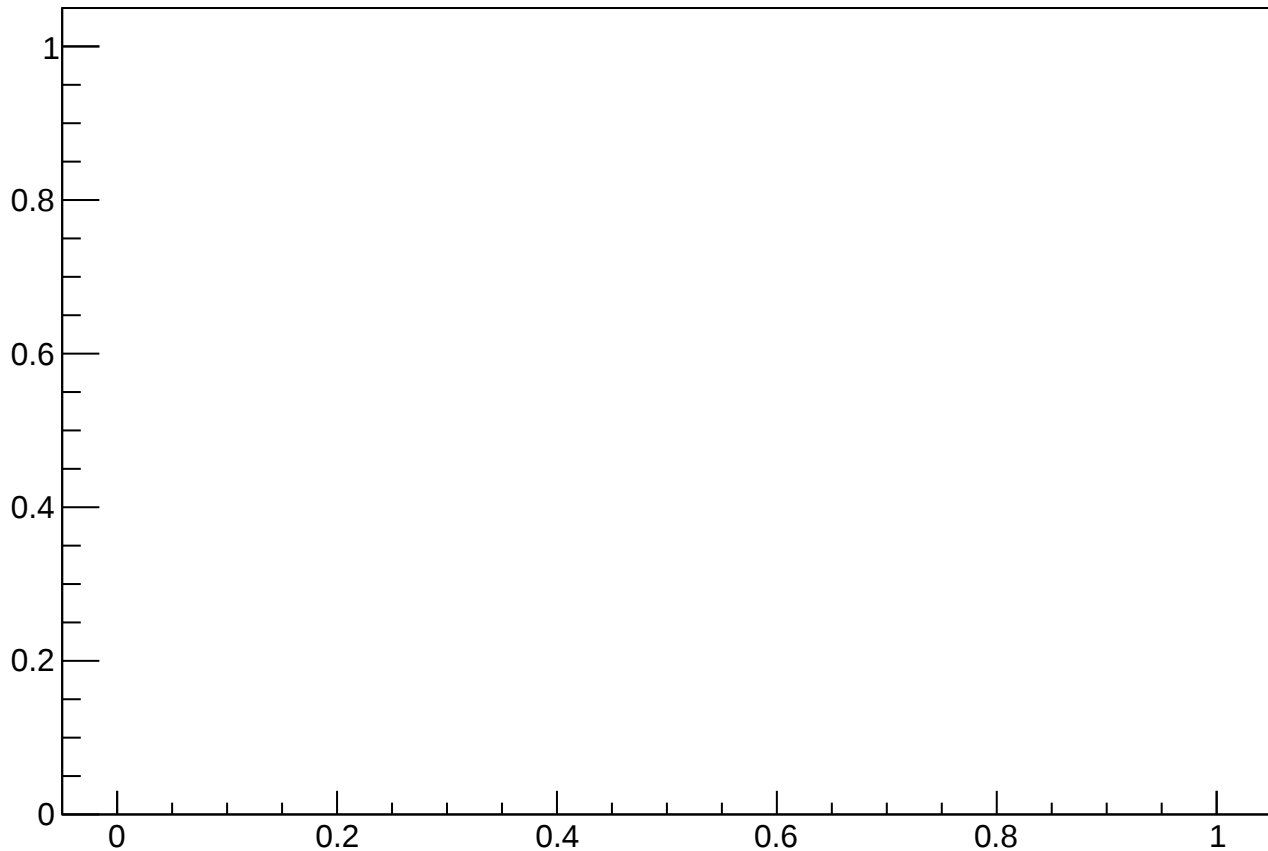
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil6\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil6\_err\_mean vs Slug



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

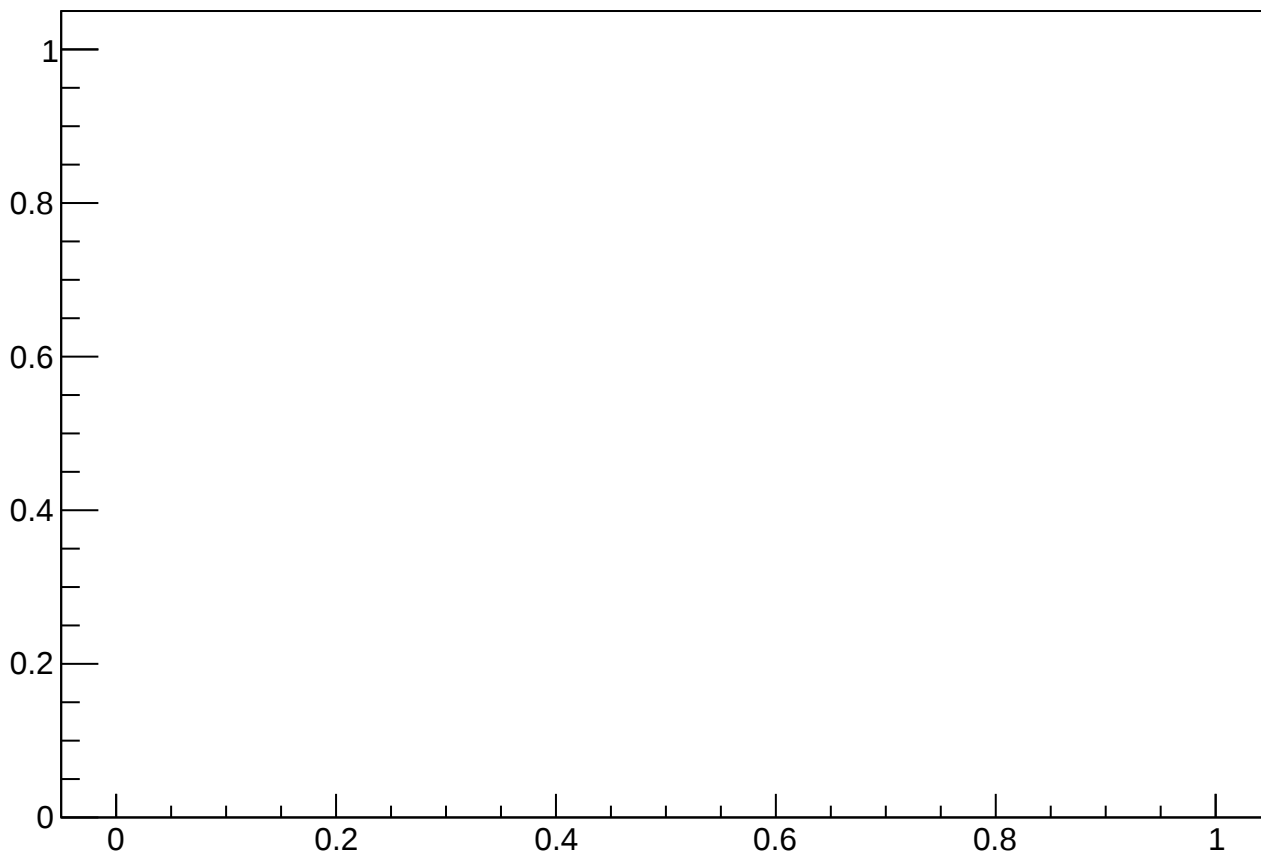
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usl\_coil6\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

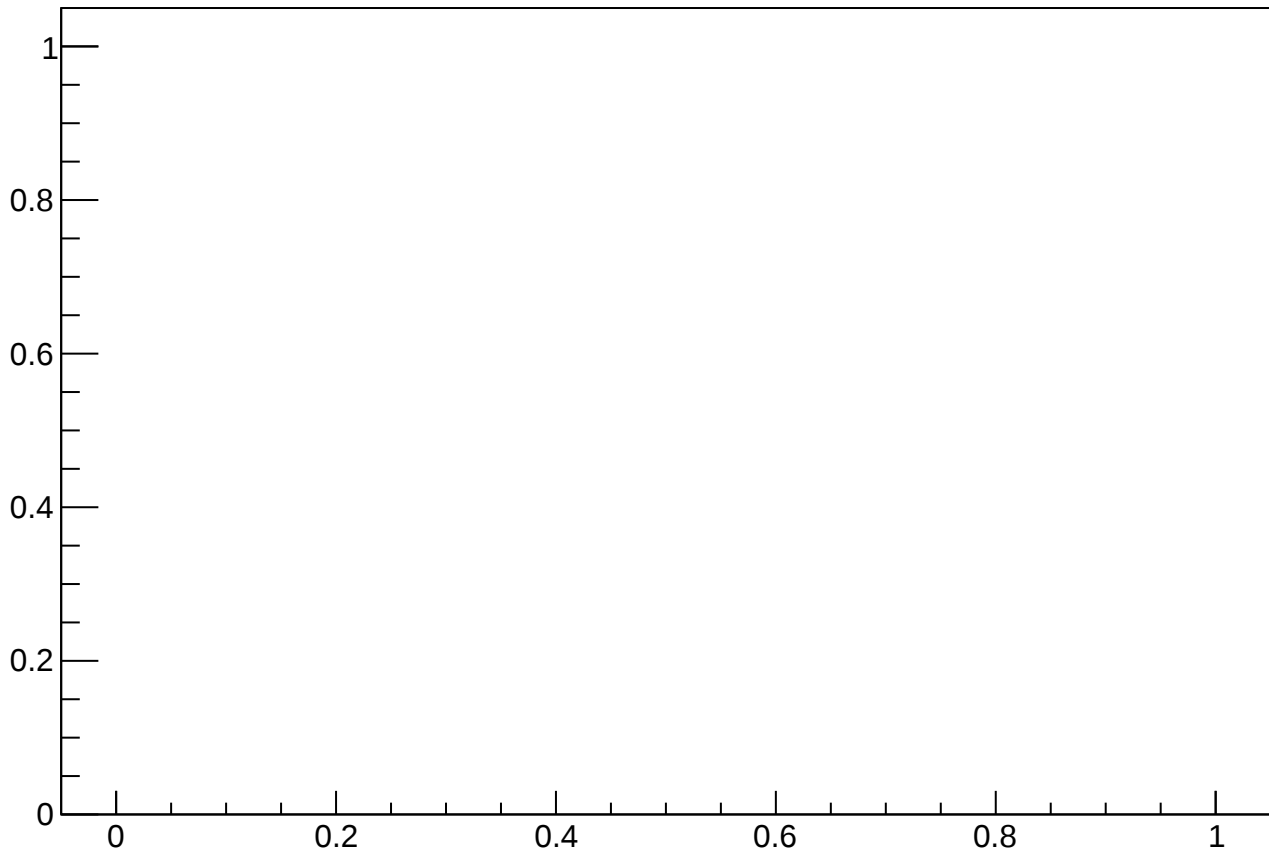
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil6\_mean vs Slug



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

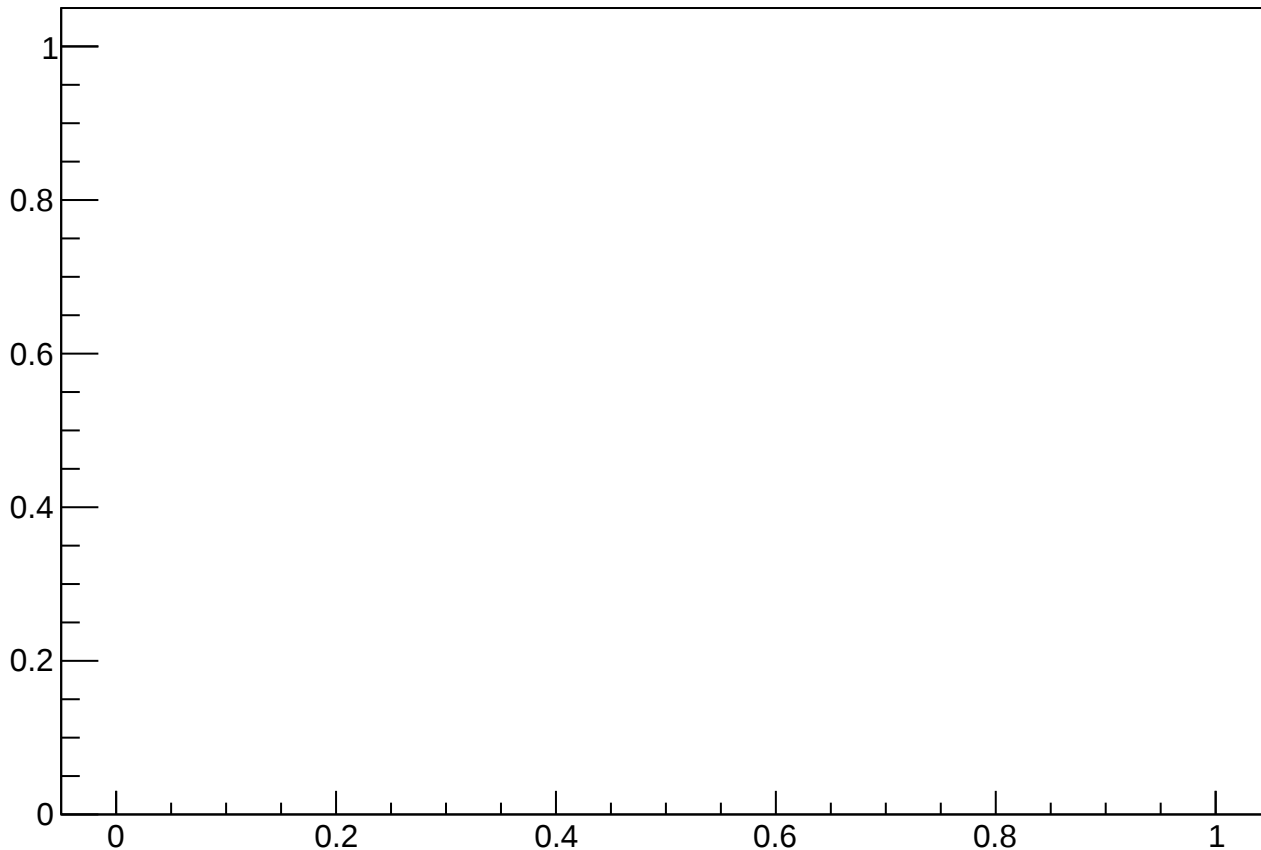
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil6\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil6\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

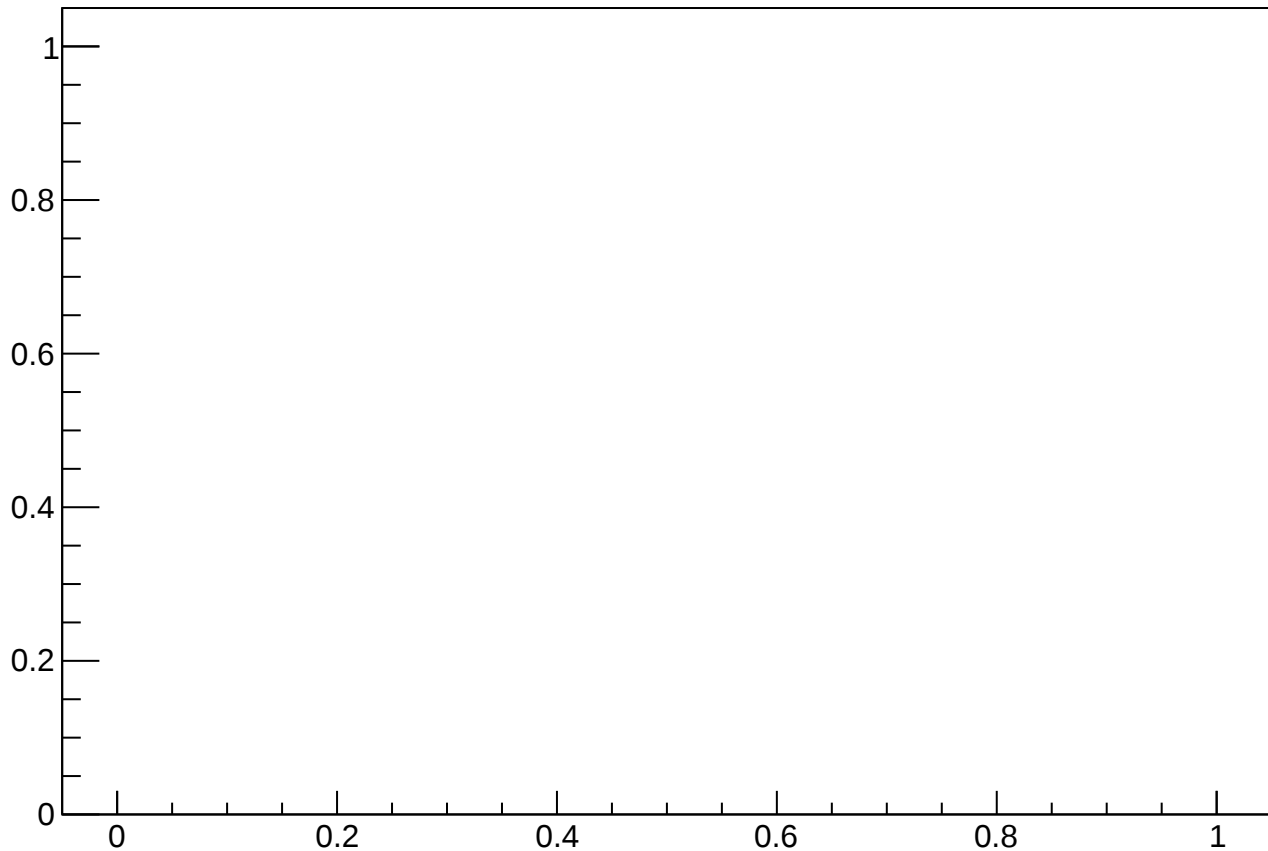
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam4\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam5\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil6\_err\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil6\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil6\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil6\_Ndata\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_run\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_run\_rms vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_slug\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_cyclenum\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_cyclenum\_rms vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_scandata1\_mean vs Slug



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

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata1\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_rms vs Slug



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

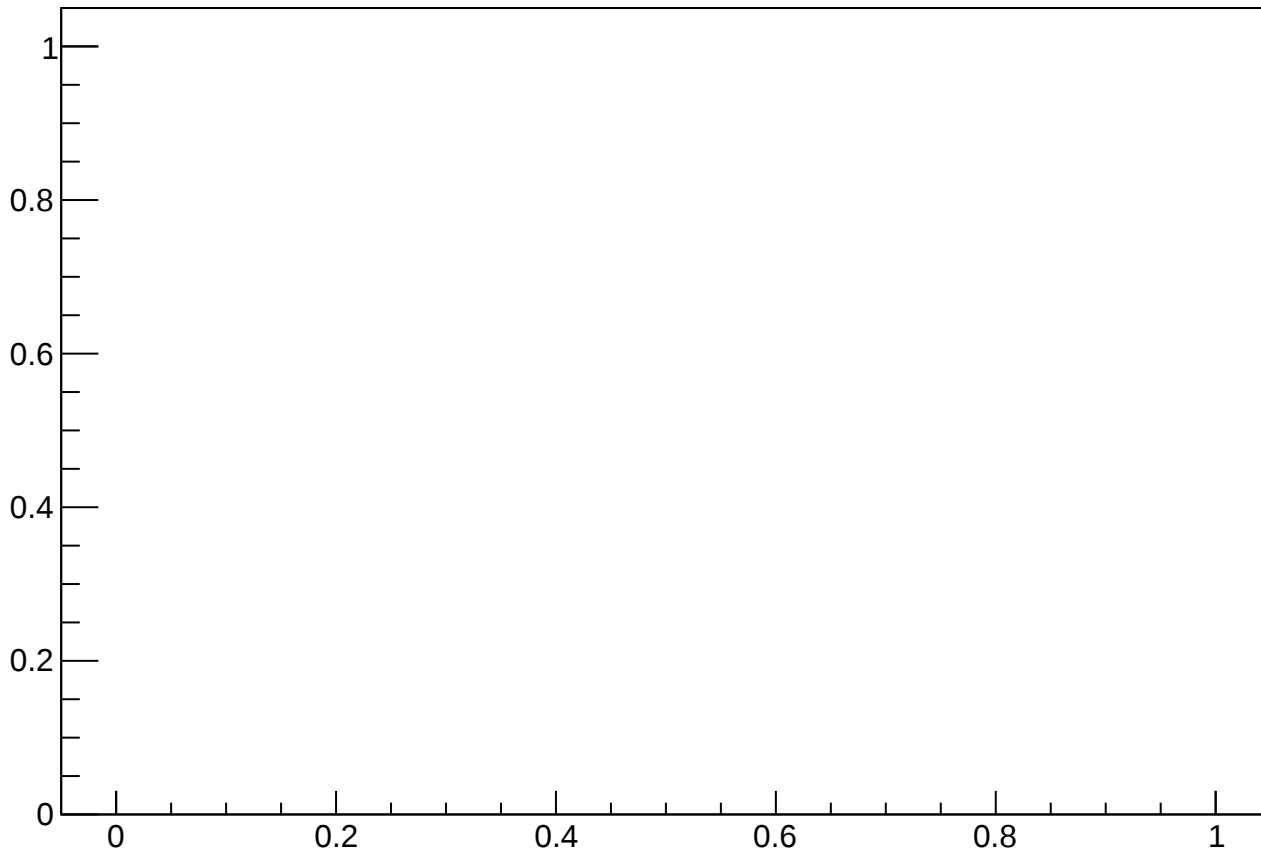
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_flag\_mean vs Slug



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

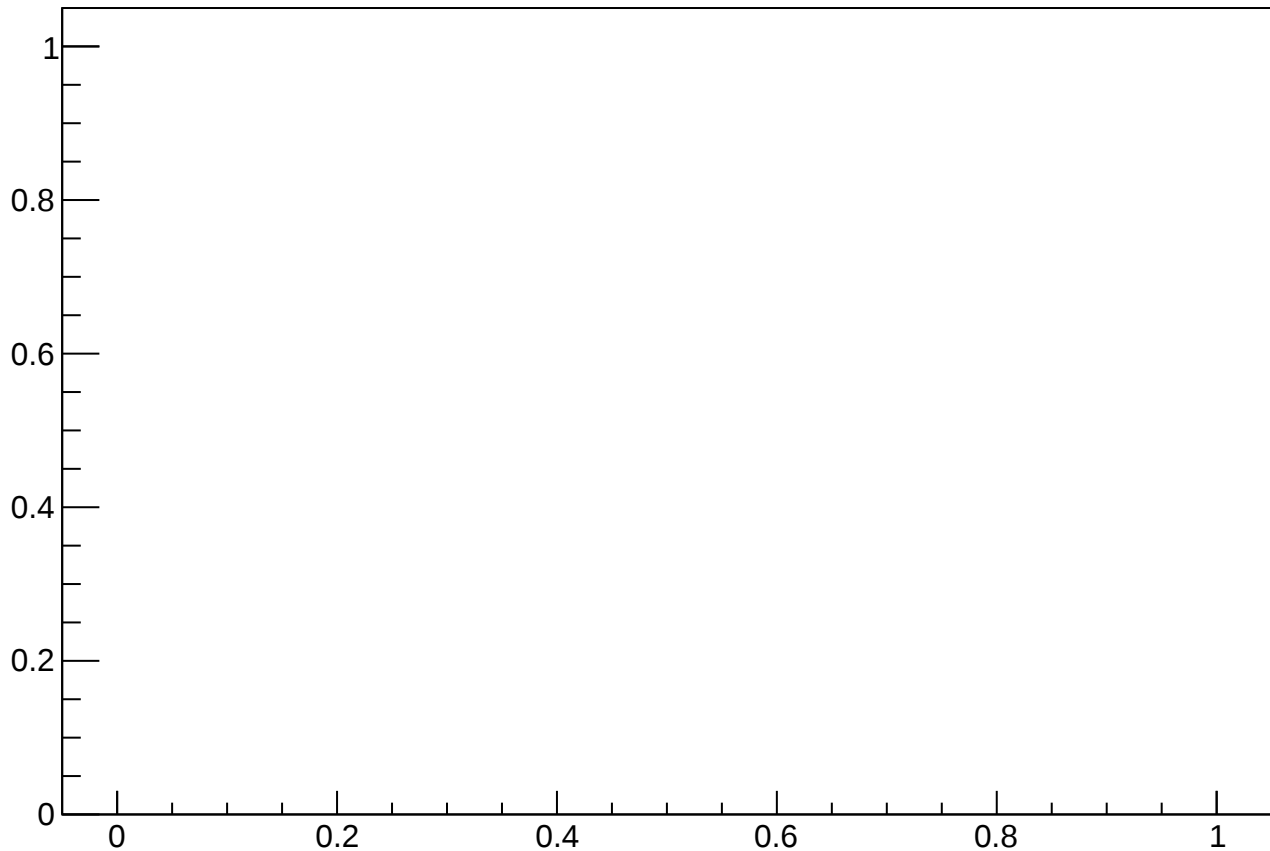
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_flag\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

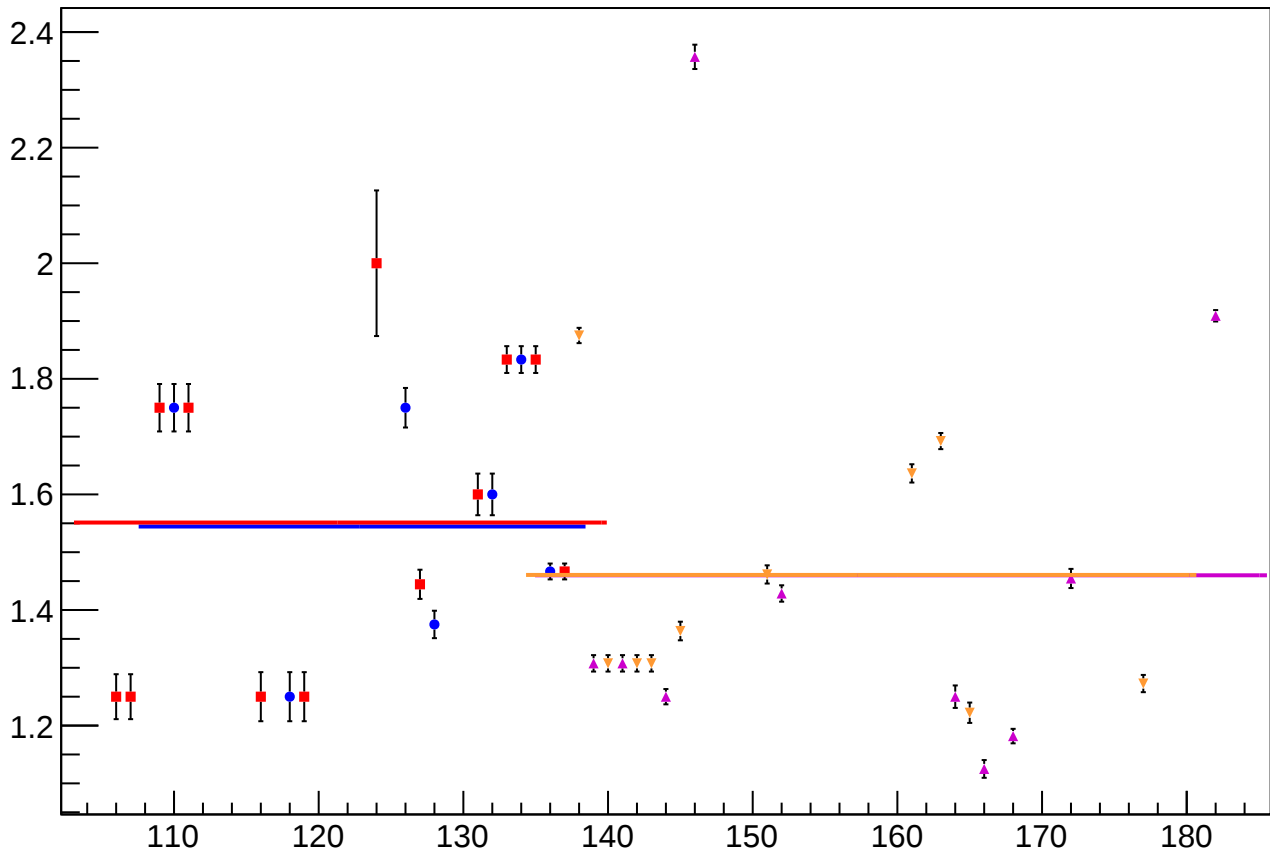
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_segment\_slope vs Slug



Right In:  $1.544 \pm 0.009$   $\chi^2/\text{NDF}$ : 349.7/6

Left Out:  $1.461 \pm 0.005$   $\chi^2/\text{NDF}$ : 2103.3/9

Right Out:  $1.551 \pm 0.008$   $\chi^2/\text{NDF}$ : 633.6/11

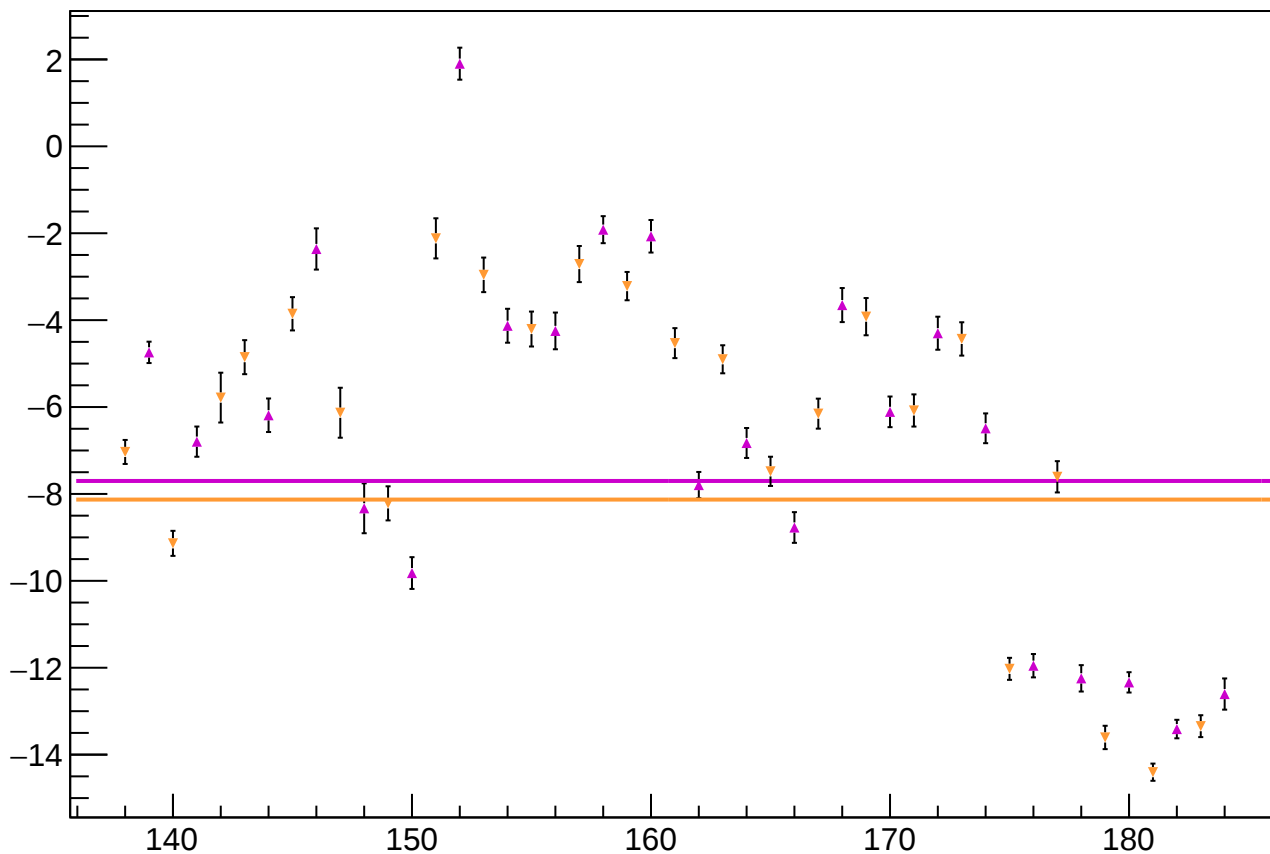
Left In:  $1.460 \pm 0.004$   $\chi^2/\text{NDF}$ : 5452.3/9

+ sign  $1.478 \pm 0.004$   $\chi^2/\text{NDF}$ : 2518.2/16

All:  $1.480 \pm 0.003$   $\chi^2/\text{NDF}$ : 8700.8/38

- sign  $1.481 \pm 0.004$   $\chi^2/\text{NDF}$ : 6182.2/21

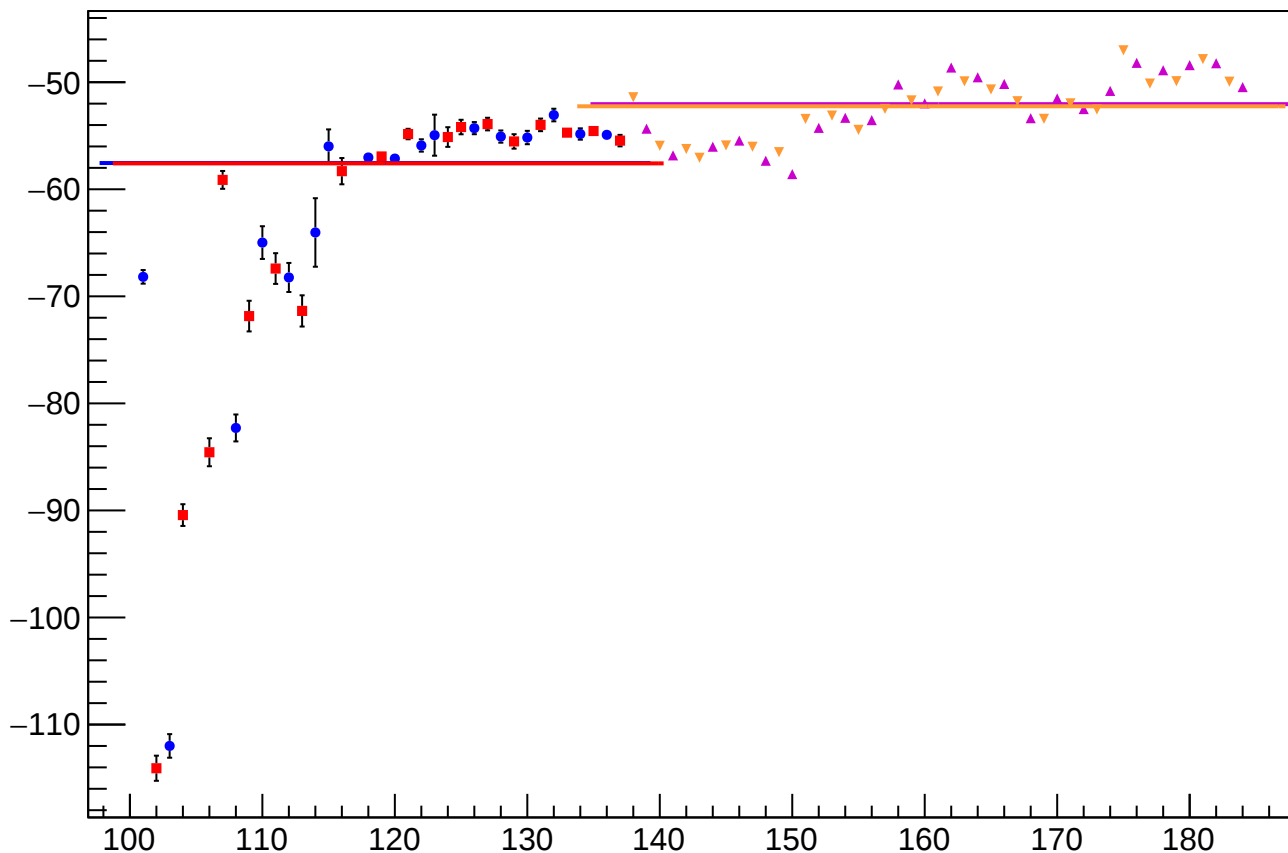
# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -8.130 $\pm$ 0.068  $\chi^2$ /NDF:3634.7/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -7.701 $\pm$ 0.068  $\chi^2$ /NDF:3737.2/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -7.917 $\pm$ 0.048  $\chi^2$ /NDF: 7391.7/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In: -57.549 $\pm$ 0.142  $\chi^2$ /NDF: 3460.4/16

Left Out: -52.249 $\pm$ 0.055  $\chi^2$ /NDF: 2603.6/23

Right Out: -57.581 $\pm$ 0.143  $\chi^2$ /NDF: 4343.8/17

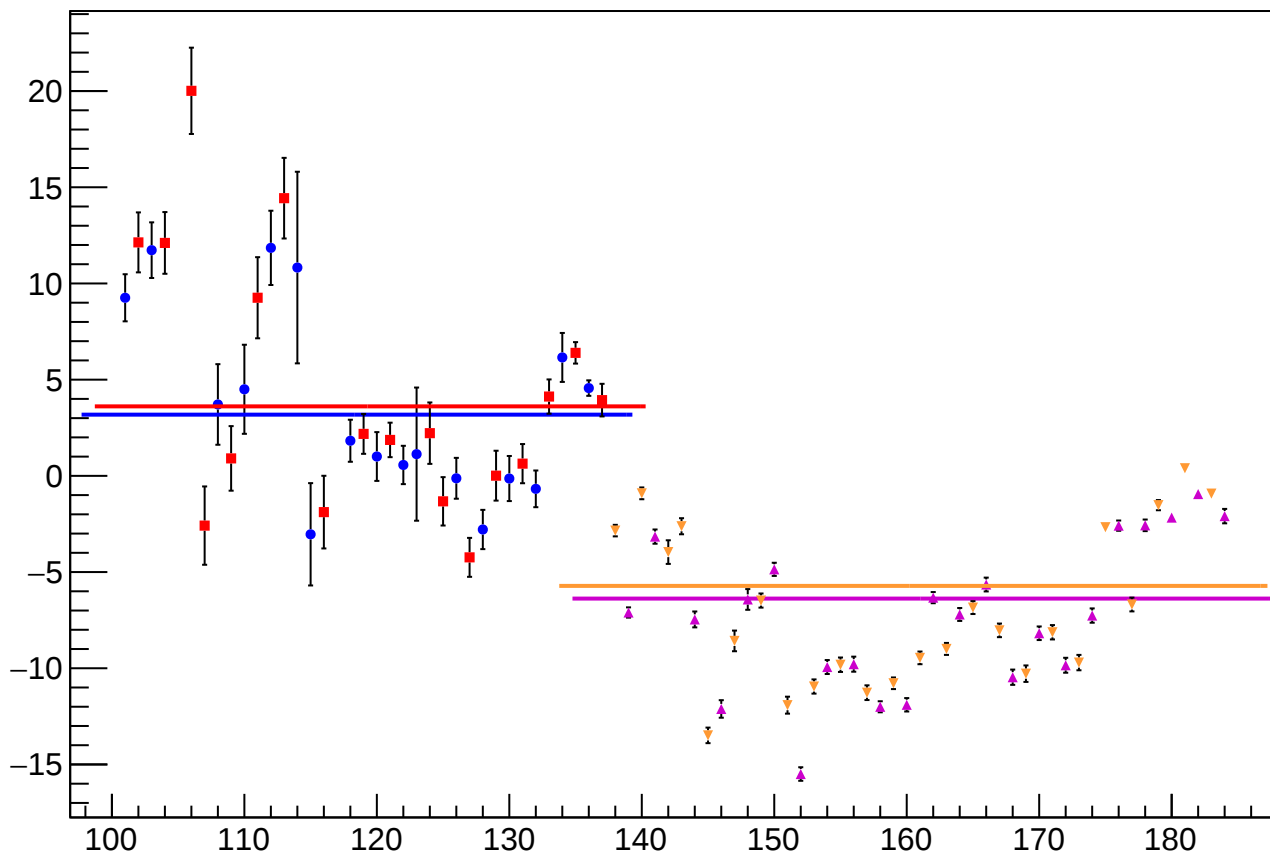
Left In: -52.050 $\pm$ 0.057  $\chi^2$ /NDF: 3197.5/22

+ sign -52.953 $\pm$ 0.052  $\chi^2$ /NDF: 7278.9/40

All: -52.883 $\pm$ 0.037  $\chi^2$ /NDF: 16116.2/81

- sign -52.809 $\pm$ 0.053  $\chi^2$ /NDF: 8833.4/40

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}$ : 185.2/16

Left Out:  $-5.719 \pm 0.068$   $\chi^2/\text{NDF}$ : 3982.2/23

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}$ : 289.2/17

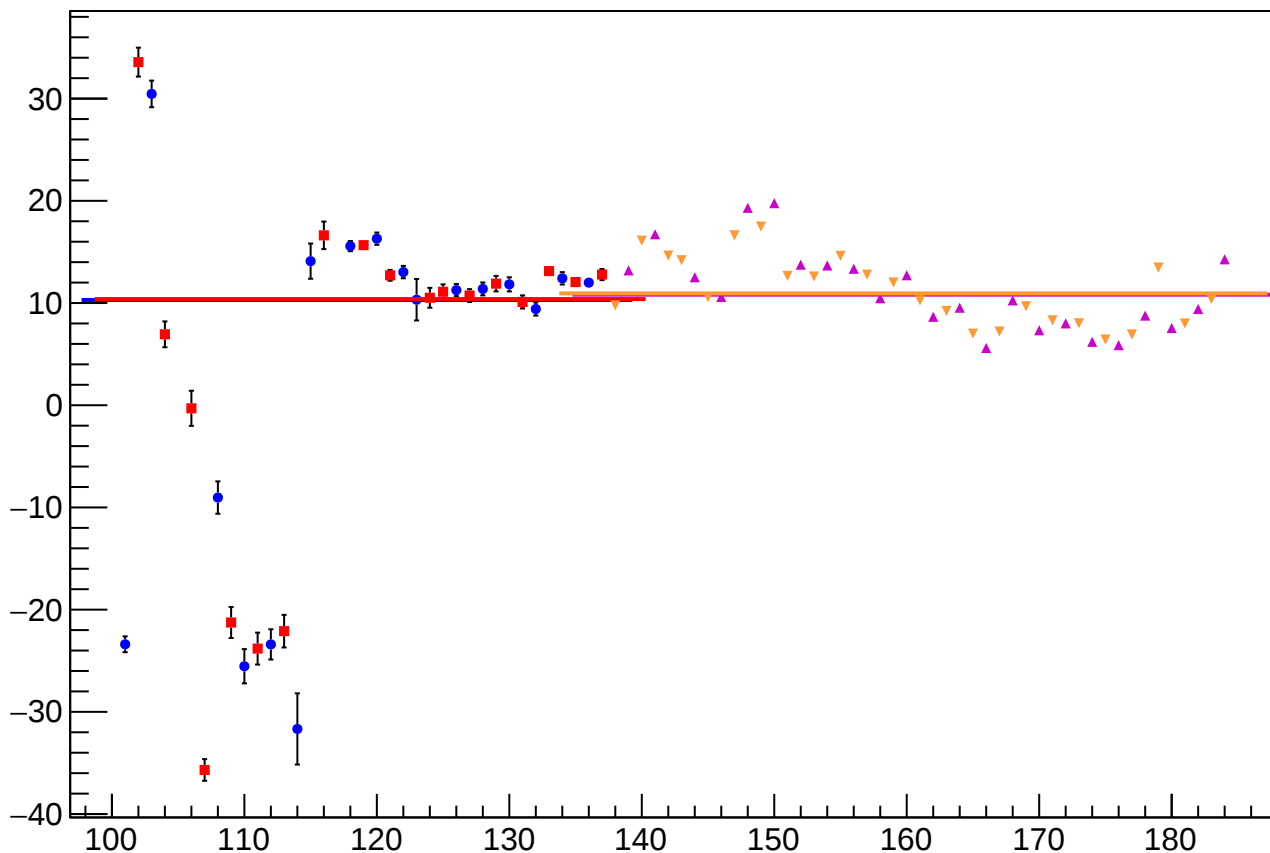
Left In:  $-6.379 \pm 0.068$   $\chi^2/\text{NDF}$ : 3395.7/22

+ sign  $-5.140 \pm 0.066$   $\chi^2/\text{NDF}$ : 5280.1/40

All:  $-5.453 \pm 0.047$   $\chi^2/\text{NDF}$ : 10316.7/81

- sign  $-5.769 \pm 0.066$   $\chi^2/\text{NDF}$ : 4991.2/40

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 10.301 $\pm$ 0.157  $\chi^2$ /NDF: 3699.4/16

Left Out: 10.943 $\pm$ 0.062  $\chi^2$ /NDF: 2629.1/23

Right Out: 10.388 $\pm$ 0.160  $\chi^2$ /NDF: 3786.4/17

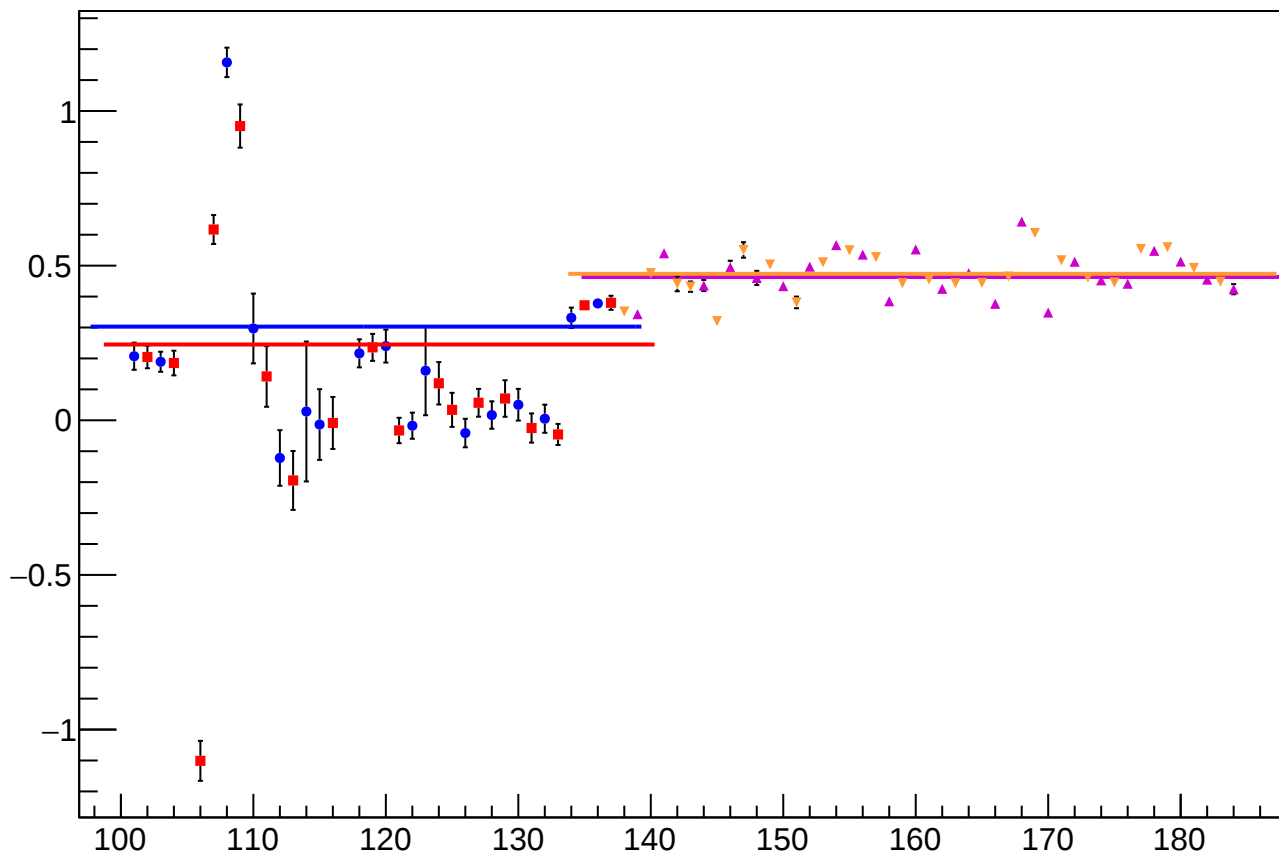
Left In: 10.818 $\pm$ 0.063  $\chi^2$ /NDF: 3577.7/22

+ sign 10.857 $\pm$ 0.058  $\chi^2$ /NDF: 6342.9/40

All: 10.810 $\pm$ 0.041  $\chi^2$ /NDF: 13714.6/81

- sign 10.760 $\pm$ 0.059  $\chi^2$ /NDF: 7370.3/40

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.303 $\pm$ 0.008  $\chi^2$ /NDF: 647.2/16

Left Out: 0.474 $\pm$ 0.003  $\chi^2$ /NDF: 507.8/23

Right Out: 0.245 $\pm$ 0.009  $\chi^2$ /NDF: 954.5/17

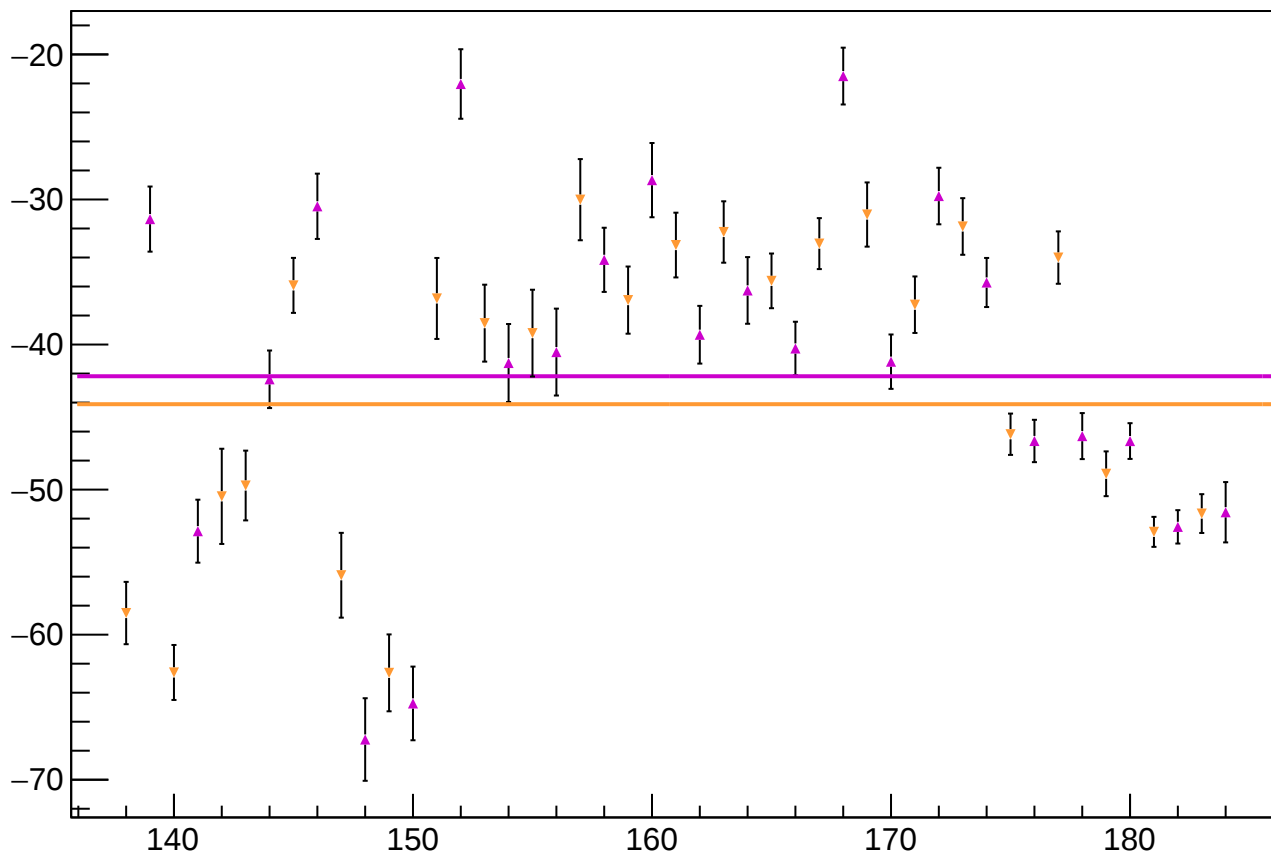
Left In: 0.463 $\pm$ 0.003  $\chi^2$ /NDF: 749.9/22

+ sign 0.456 $\pm$ 0.003  $\chi^2$ /NDF: 1543.9/40

All: 0.449 $\pm$ 0.002  $\chi^2$ /NDF: 3855.7/81

- sign 0.443 $\pm$ 0.003  $\chi^2$ /NDF: 2299.1/40

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -44.112+/-0.393  $\chi^2/\text{NDF}$ : 631.7/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

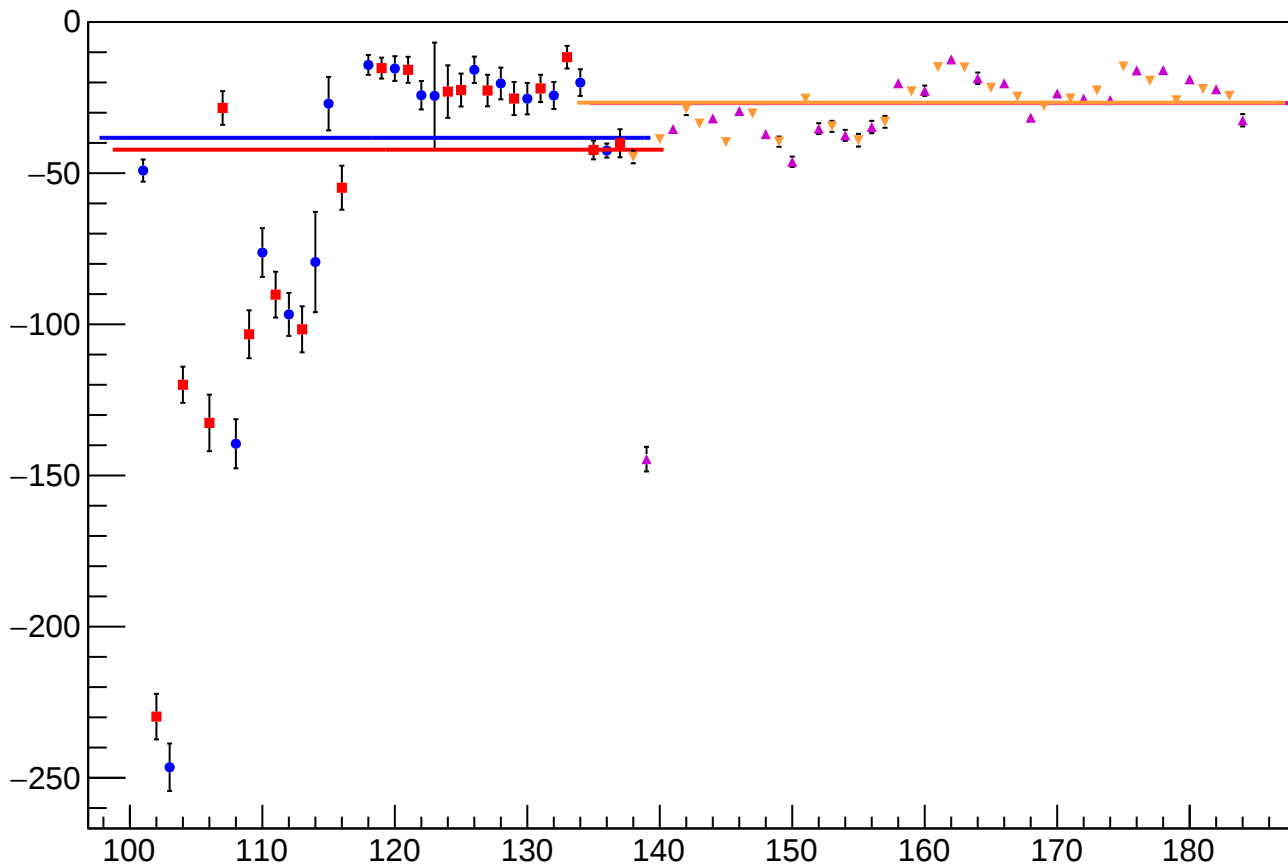
Left In: -42.185+/-0.398  $\chi^2/\text{NDF}$ : 651.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.159+/-0.280  $\chi^2/\text{NDF}$ : 1294.7/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-38.304 \pm 1.138$   $\chi^2/\text{NDF}: 1132.8/16$

Left Out:  $-26.678 \pm 0.319$   $\chi^2/\text{NDF}: 606.5/23$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

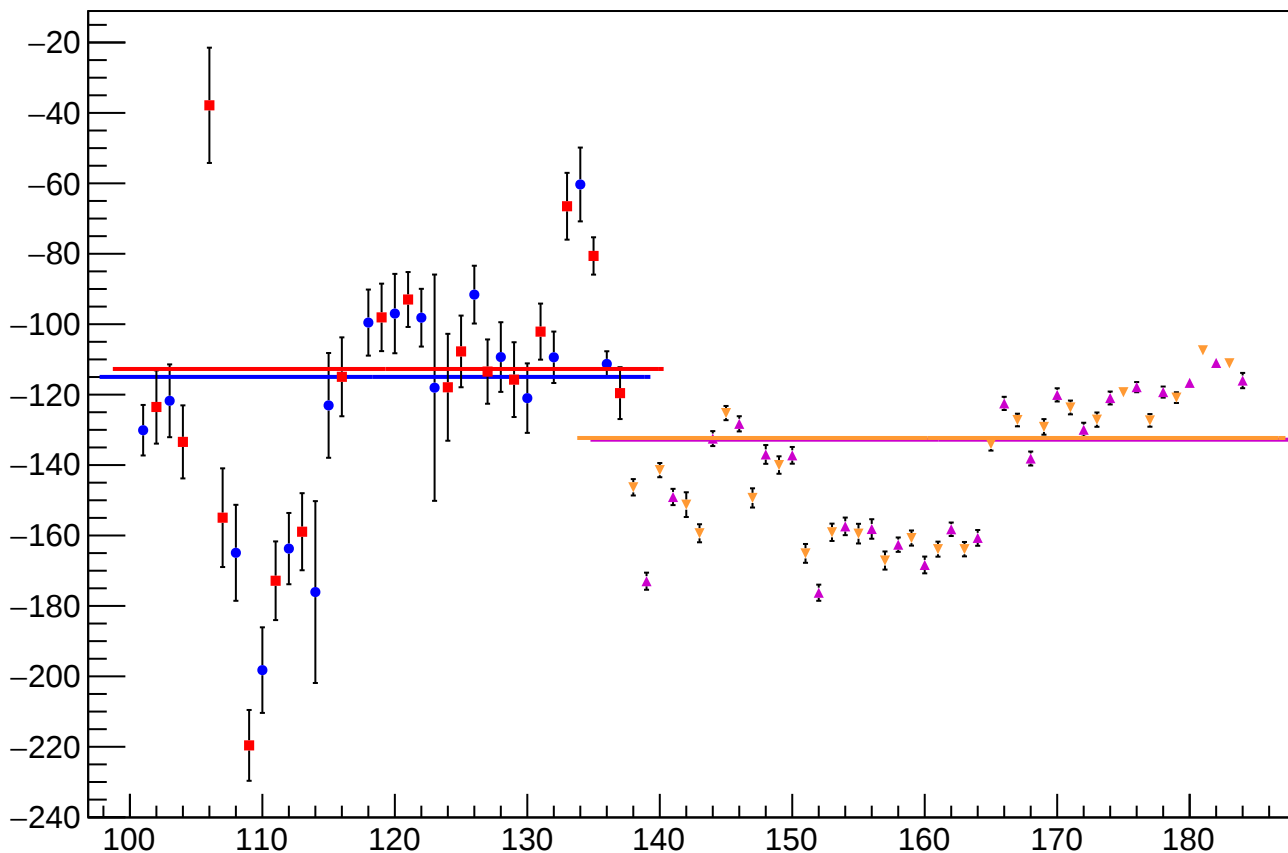
Left In:  $-26.825 \pm 0.325$   $\chi^2/\text{NDF}: 1481.6/22$

+ sign  $-27.527 \pm 0.307$   $\chi^2/\text{NDF}: 1836.0/40$

All:  $-27.692 \pm 0.220$   $\chi^2/\text{NDF}: 4747.6/81$

- sign  $-27.865 \pm 0.314$   $\chi^2/\text{NDF}: 2911.0/40$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}$ : 141.4/16

Left Out:  $-132.308 \pm 0.396$   $\chi^2/\text{NDF}$ : 2392.0/23

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}$ : 267.1/17

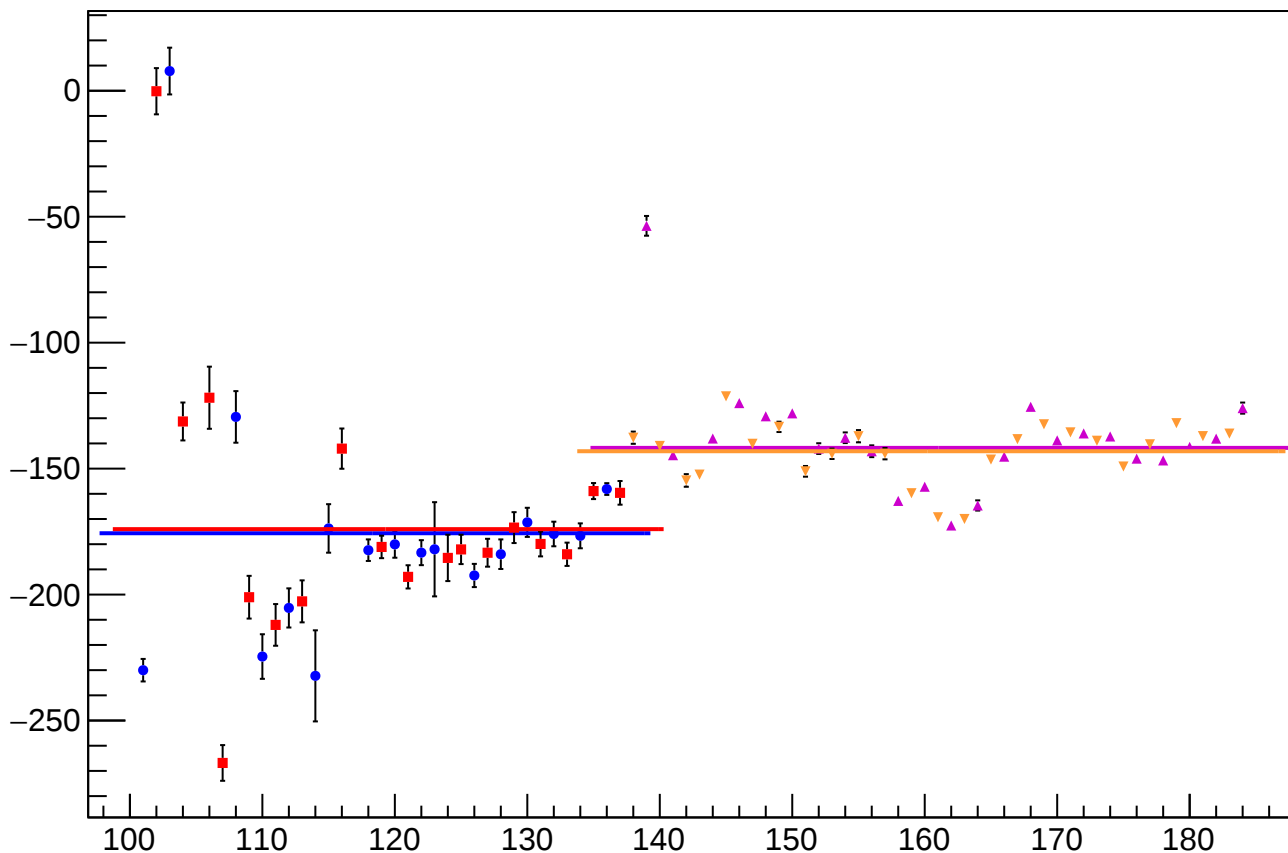
Left In:  $-132.799 \pm 0.398$   $\chi^2/\text{NDF}$ : 2515.9/22

+ sign  $-131.699 \pm 0.389$   $\chi^2/\text{NDF}$ : 2600.8/40

All:  $-131.932 \pm 0.276$   $\chi^2/\text{NDF}$ : 5464.5/81

- sign  $-132.168 \pm 0.392$   $\chi^2/\text{NDF}$ : 2863.0/40

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-143.095 \pm 0.358$   $\chi^2/\text{NDF}$ : 1043.7/23

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

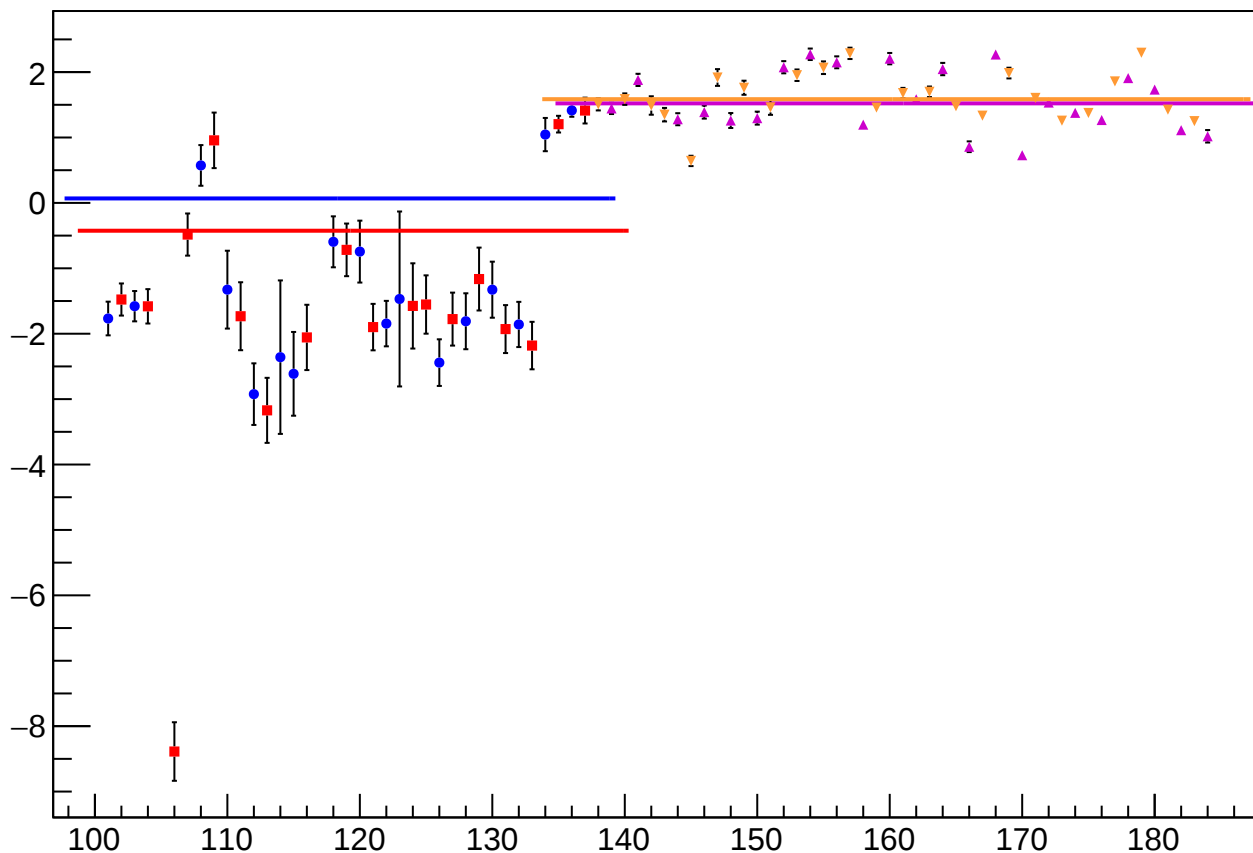
Left In:  $-141.769 \pm 0.363$   $\chi^2/\text{NDF}$ : 1604.4/22

+ sign  $-145.492 \pm 0.344$   $\chi^2/\text{NDF}$ : 2345.4/40

All:  $-144.722 \pm 0.246$   $\chi^2/\text{NDF}$ : 5192.1/81

- sign  $-143.925 \pm 0.350$   $\chi^2/\text{NDF}$ : 2836.5/40

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In: 0.068 $\pm$ 0.067  $\chi^2$ /NDF: 525.9/16

Left Out: 1.586 $\pm$ 0.016  $\chi^2$ /NDF: 493.5/23

Right Out: -0.425 $\pm$ 0.071  $\chi^2$ /NDF: 742.9/17

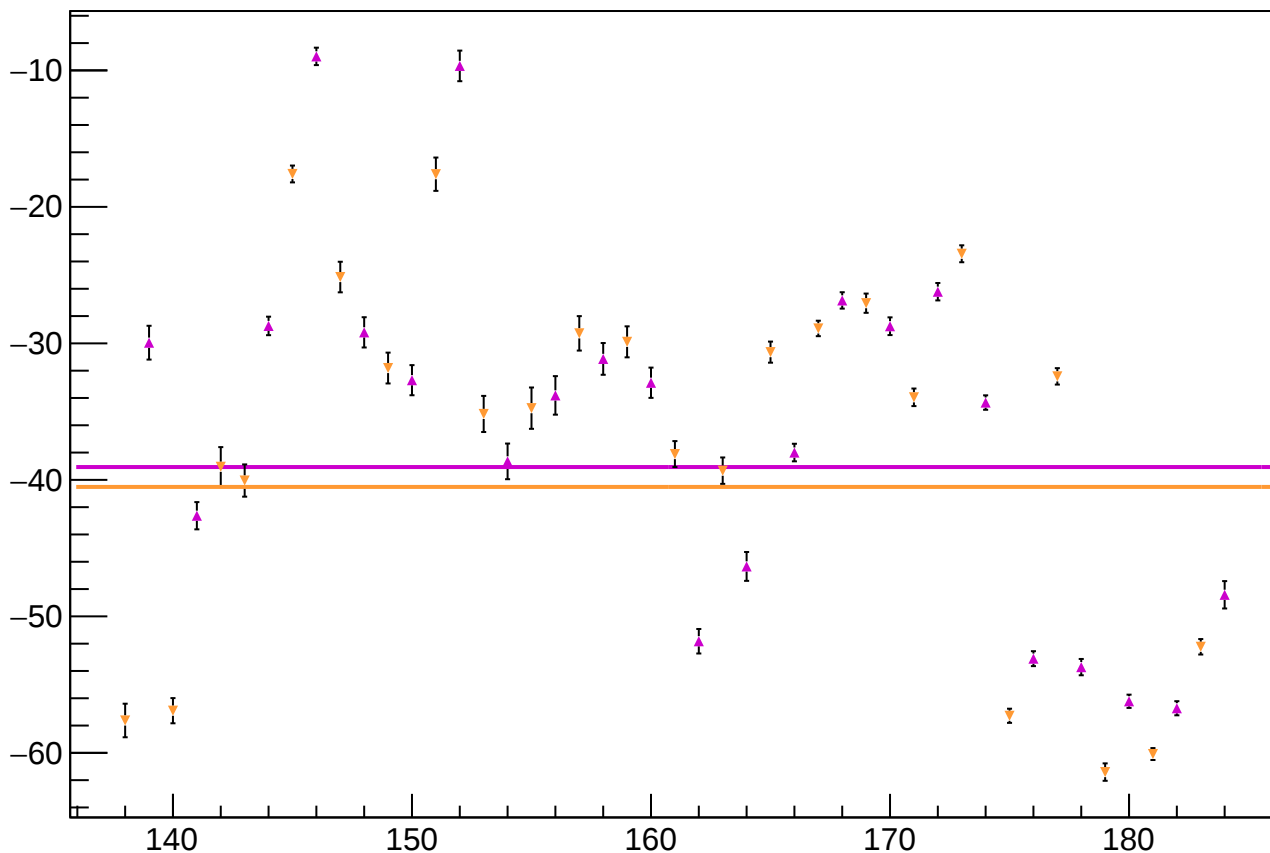
Left In: 1.522 $\pm$ 0.016  $\chi^2$ /NDF: 739.1/22

+ sign 1.500 $\pm$ 0.016  $\chi^2$ /NDF: 1503.3/40

All: 1.462 $\pm$ 0.011  $\chi^2$ /NDF: 3706.0/81

- sign 1.424 $\pm$ 0.016  $\chi^2$ /NDF: 2191.3/40

# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -40.517+/-0.155  $\chi^2/\text{NDF}$ : 9233.4/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

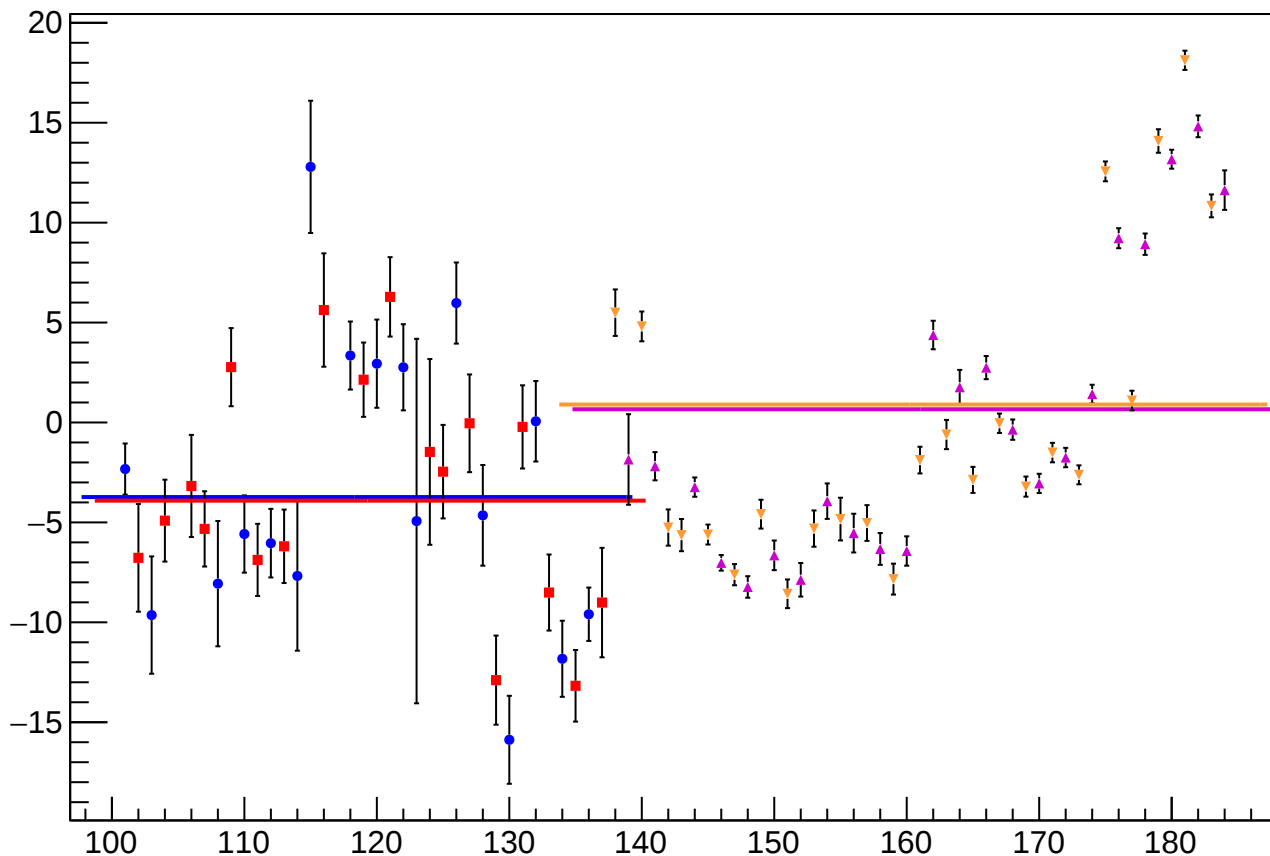
Left In: -39.060+/-0.154  $\chi^2/\text{NDF}$ : 8577.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -39.783+/-0.109  $\chi^2/\text{NDF}$ : 17854.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.732 \pm 0.496$   $\chi^2/\text{NDF}: 165.8/16$

Left Out:  $0.899 \pm 0.125$   $\chi^2/\text{NDF}: 3904.1/23$

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}: 124.8/17$

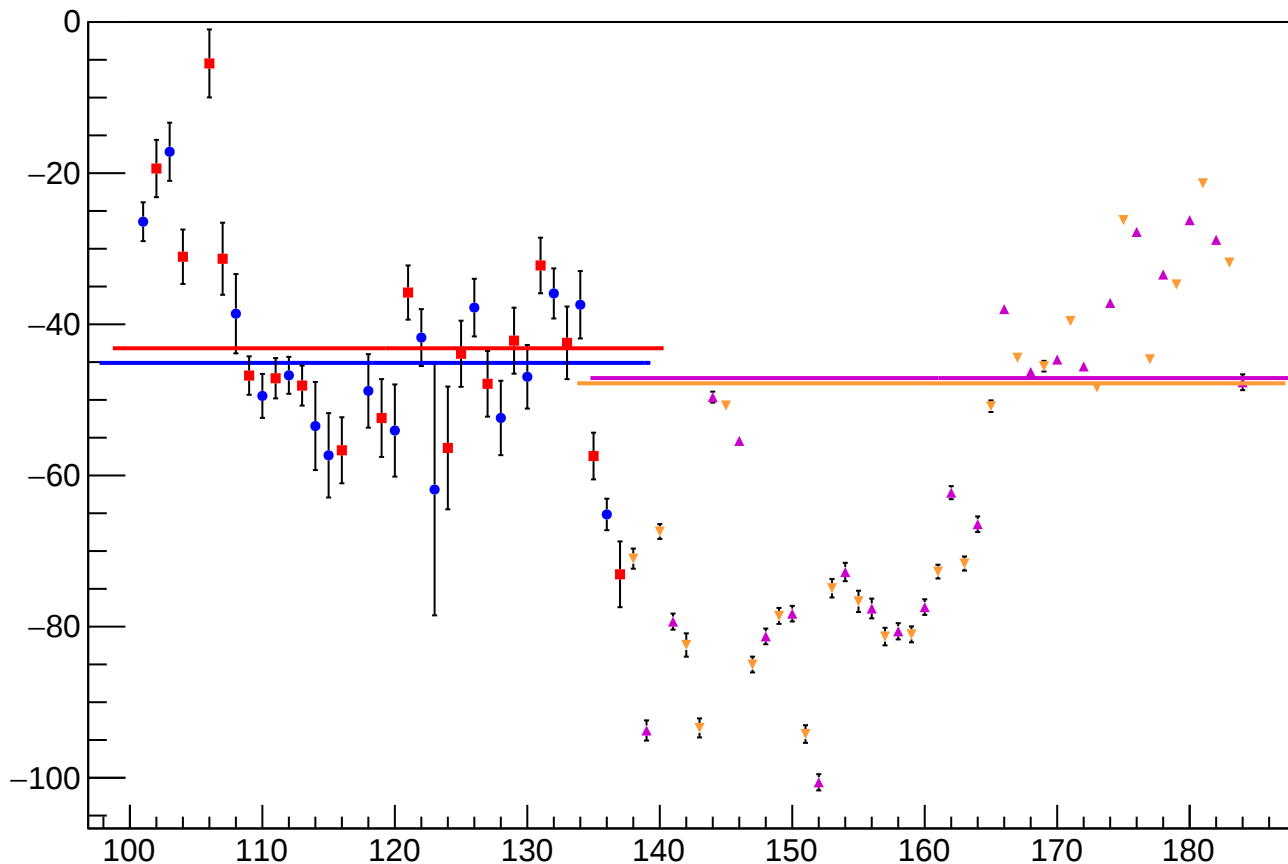
Left In:  $0.662 \pm 0.124$   $\chi^2/\text{NDF}: 3340.9/22$

+ sign  $0.620 \pm 0.122$   $\chi^2/\text{NDF}: 4151.9/40$

All:  $0.511 \pm 0.086$   $\chi^2/\text{NDF}: 7695.9/81$

- sign  $0.404 \pm 0.120$   $\chi^2/\text{NDF}: 3542.5/40$

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-47.806 \pm 0.156$   $\chi^2/\text{NDF}$ : 16887.5/23

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

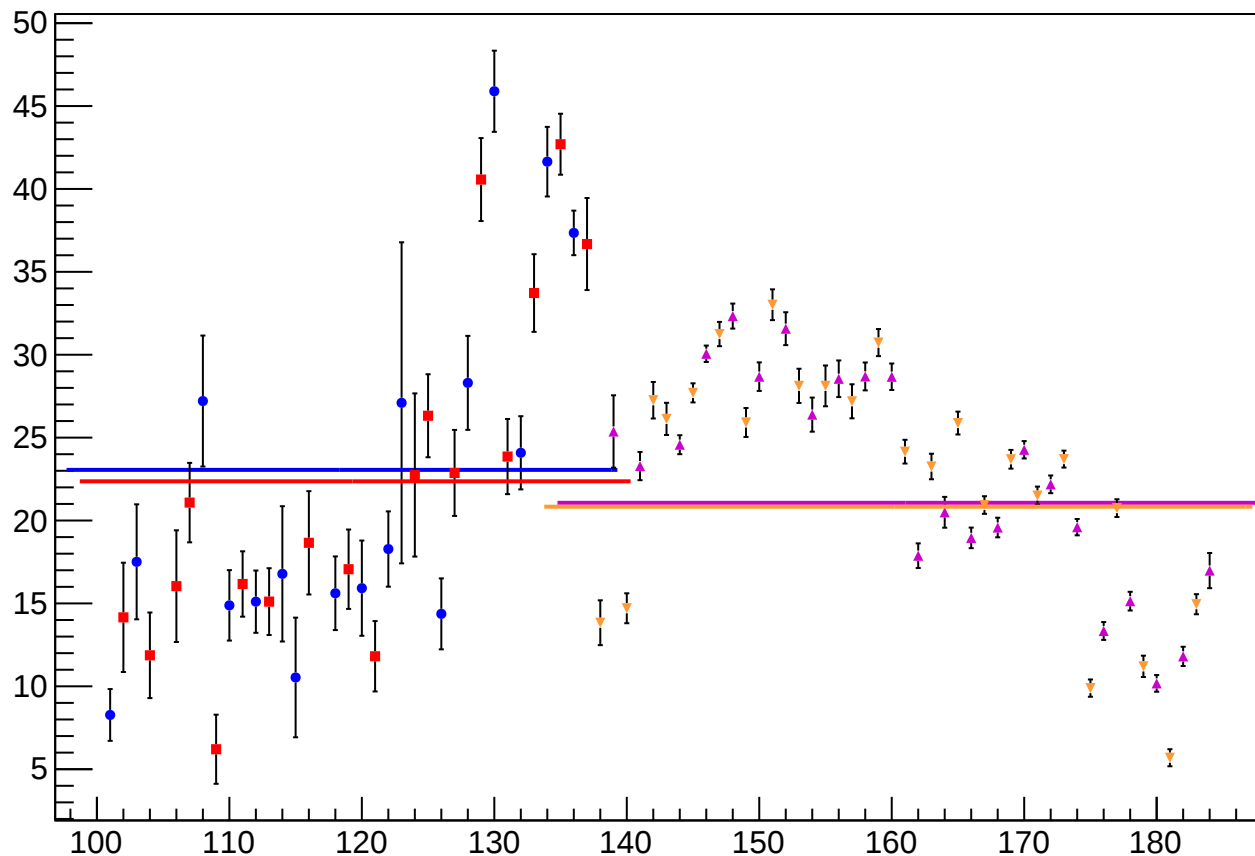
Left In:  $-47.112 \pm 0.155$   $\chi^2/\text{NDF}$ : 15654.8/22

+ sign  $-47.724 \pm 0.154$   $\chi^2/\text{NDF}$ : 17127.1/40

All:  $-47.355 \pm 0.108$   $\chi^2/\text{NDF}$ : 33045.7/81

- sign  $-46.994 \pm 0.152$   $\chi^2/\text{NDF}$ : 15907.2/40

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 20.834 $\pm$ 0.140  $\chi^2$ /NDF: 2723.4/23

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

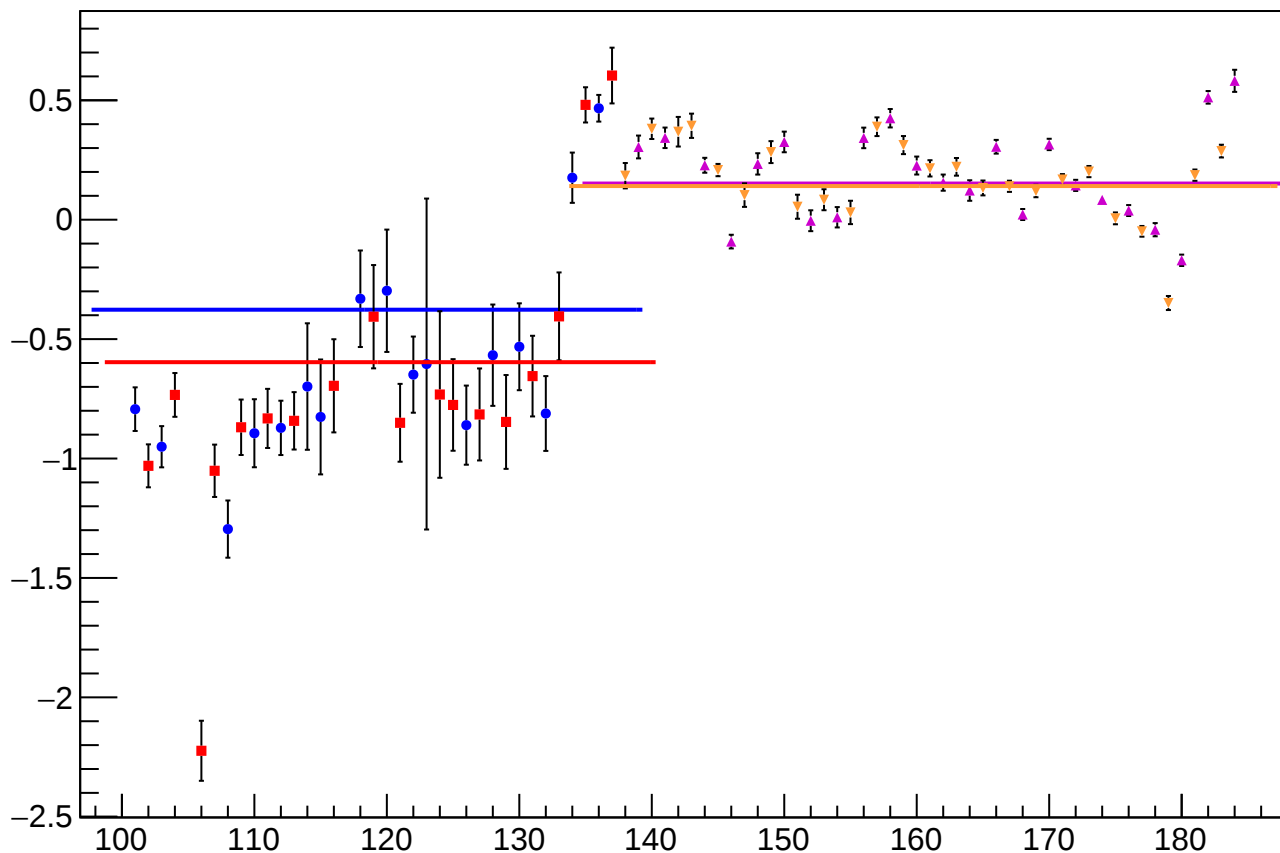
Left In: 21.069 $\pm$ 0.139  $\chi^2$ /NDF: 2176.7/22

+ sign 20.967 $\pm$ 0.136  $\chi^2$ /NDF: 3199.5/40

All: 21.055 $\pm$ 0.096  $\chi^2$ /NDF: 5750.6/81

- sign 21.141 $\pm$ 0.135  $\chi^2$ /NDF: 2550.3/40

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.4/16$

Left Out:  $0.141 \pm 0.006$   $\chi^2/\text{NDF}: 587.8/23$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

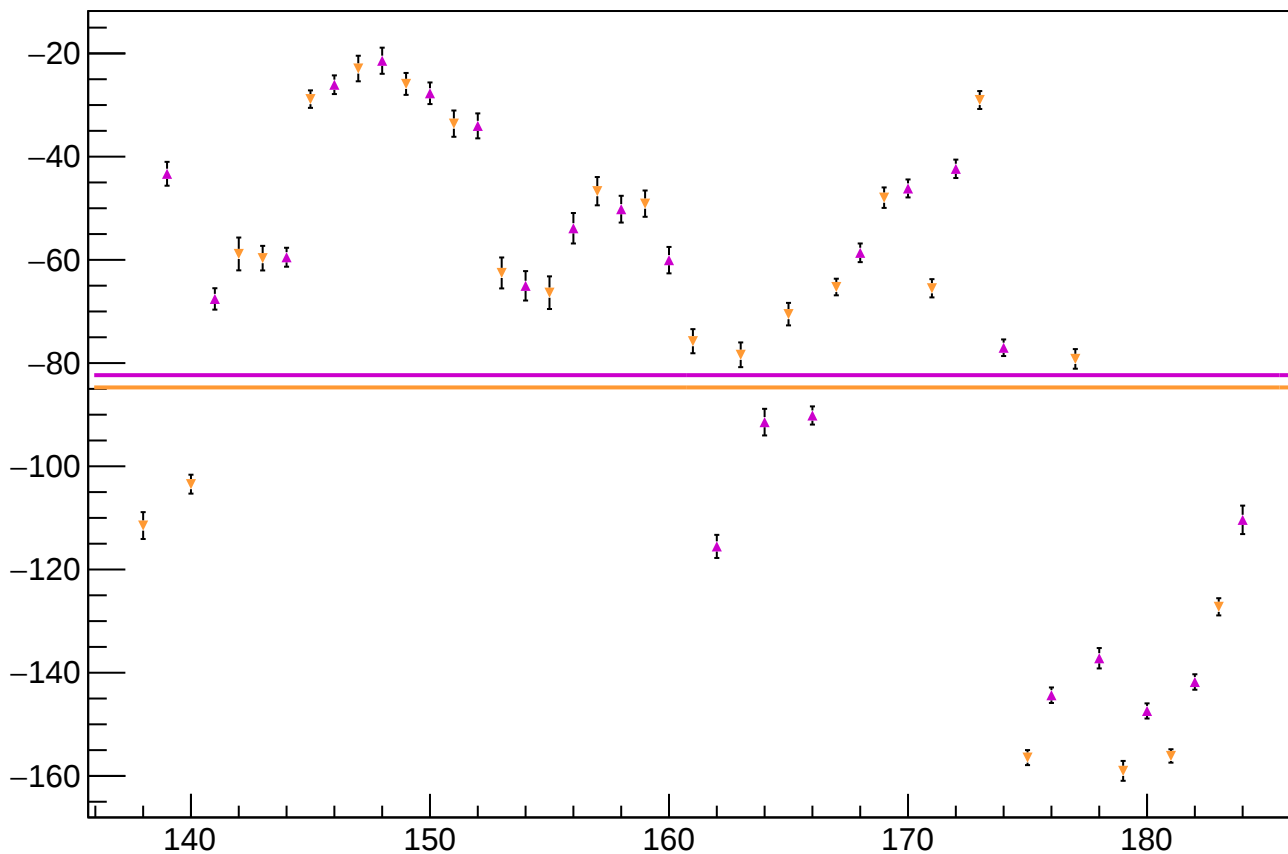
Left In:  $0.151 \pm 0.006$   $\chi^2/\text{NDF}: 873.9/22$

+ sign  $0.118 \pm 0.006$   $\chi^2/\text{NDF}: 1308.2/40$

All:  $0.119 \pm 0.004$   $\chi^2/\text{NDF}: 3319.0/81$

- sign  $0.120 \pm 0.006$   $\chi^2/\text{NDF}: 2010.7/40$

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -84.719+/-0.410  $\chi^2/\text{NDF}$ :13036.2/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

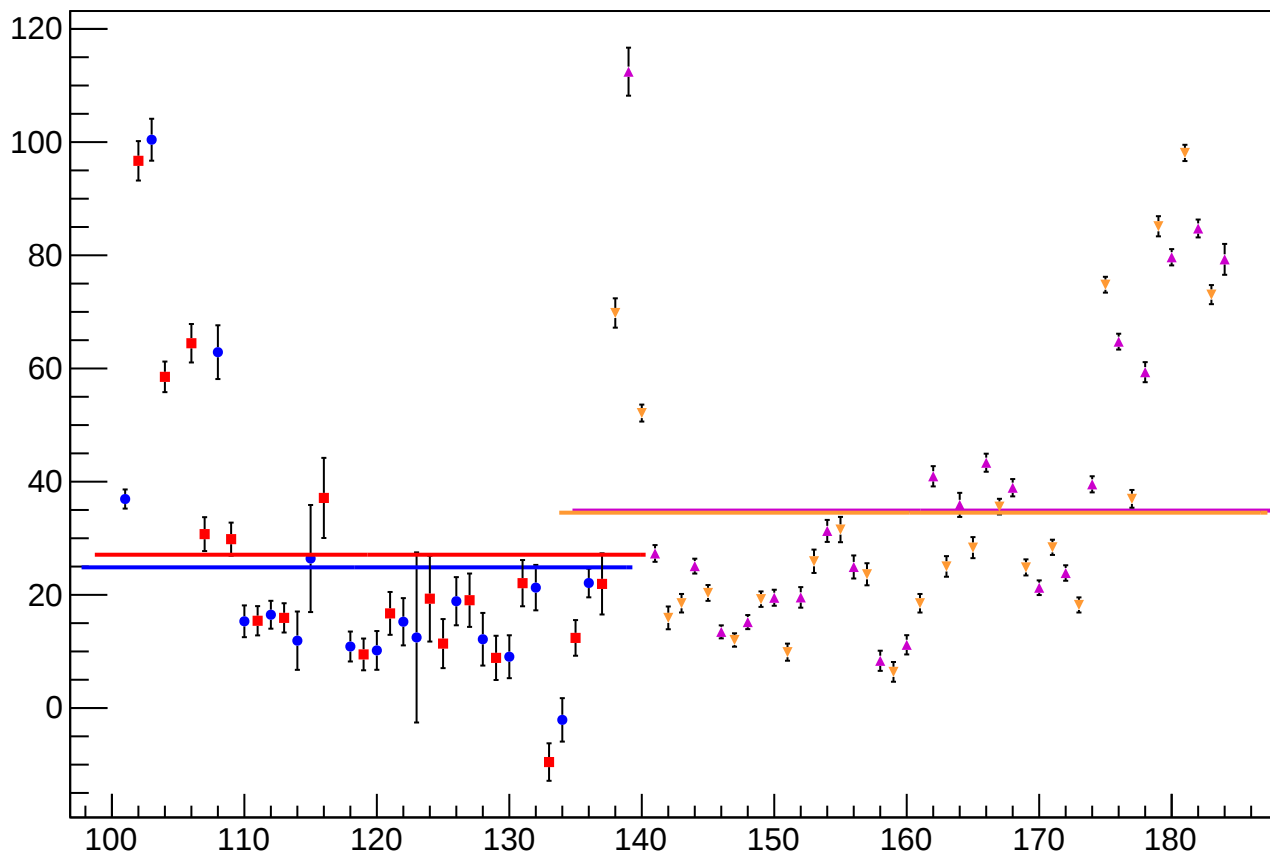
Left In: -82.342+/-0.413  $\chi^2/\text{NDF}$ :10954.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -83.538+/-0.291  $\chi^2/\text{NDF}$ : 24007.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In:  $24.863 \pm 0.802$   $\chi^2/\text{NDF}$ : 691.0/16

Left Out:  $34.523 \pm 0.323$   $\chi^2/\text{NDF}$ : 6140.6/23

Right Out:  $27.093 \pm 0.812$   $\chi^2/\text{NDF}$ : 930.9/17

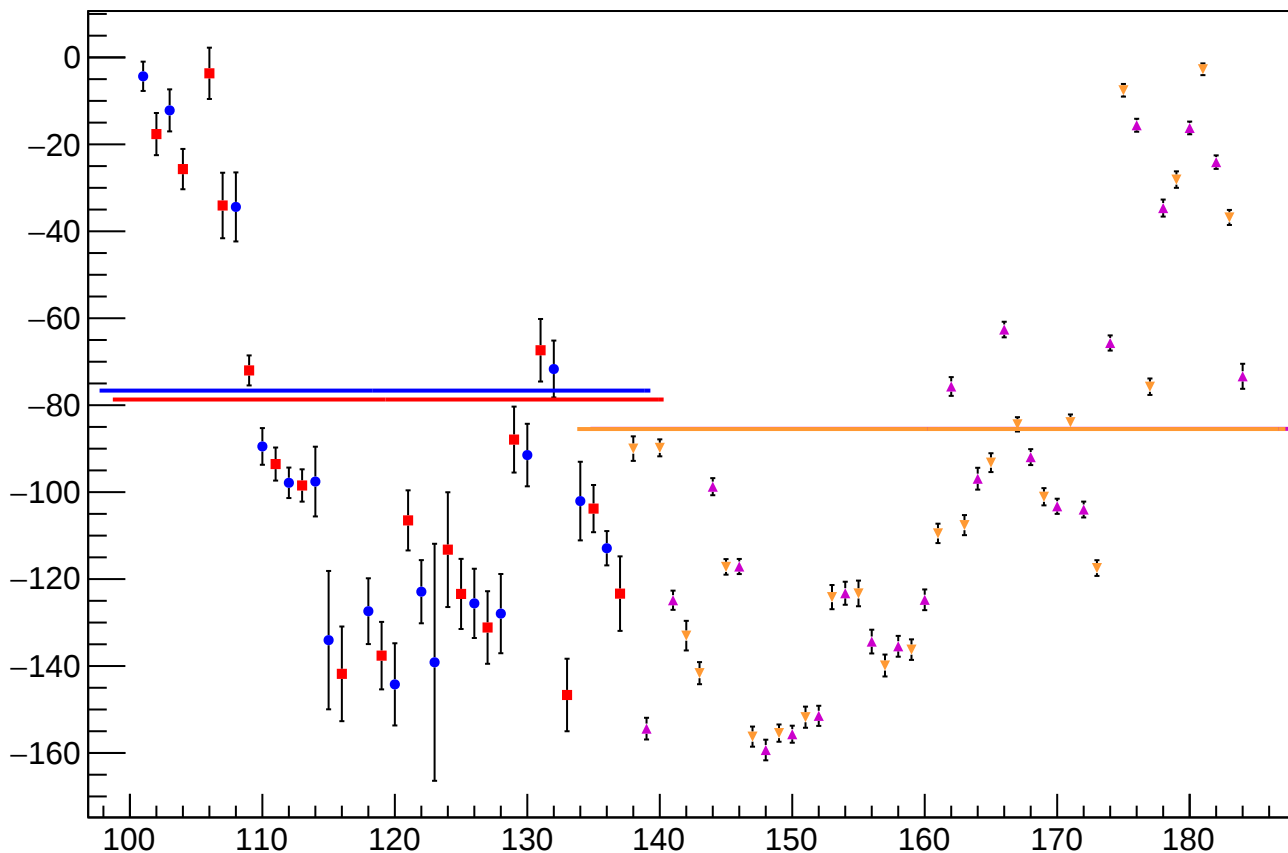
Left In:  $34.893 \pm 0.328$   $\chi^2/\text{NDF}$ : 4754.6/22

+ sign  $33.177 \pm 0.299$   $\chi^2/\text{NDF}$ : 6956.5/40

All:  $33.482 \pm 0.213$   $\chi^2/\text{NDF}$ : 12723.5/81

- sign  $33.797 \pm 0.304$   $\chi^2/\text{NDF}$ : 5764.9/40

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}: 1040.7/16$

Left Out:  $-85.484 \pm 0.412$   $\chi^2/\text{NDF}: 14145.4/23$

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}: 836.5/17$

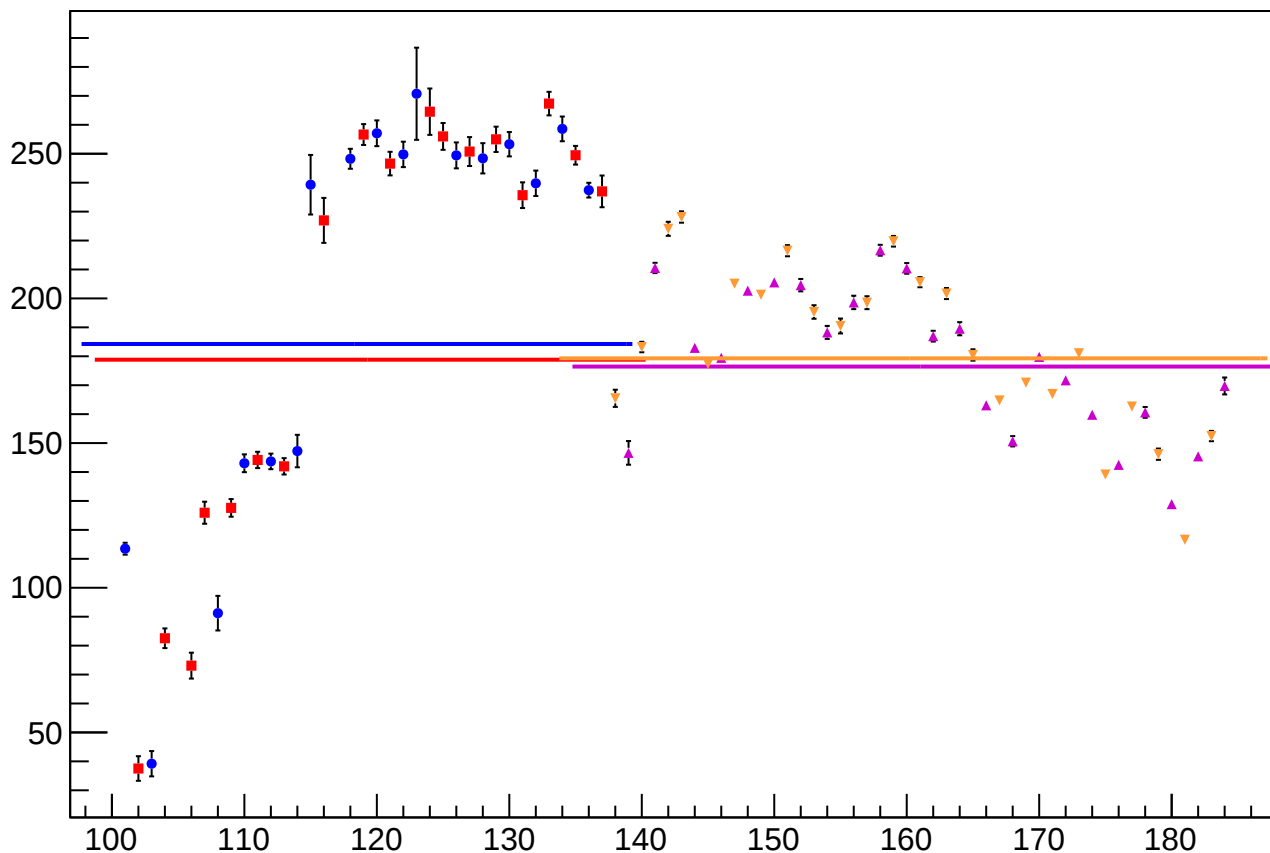
Left In:  $-85.441 \pm 0.413$   $\chi^2/\text{NDF}: 12998.9/22$

+ sign  $-84.792 \pm 0.396$   $\chi^2/\text{NDF}: 15222.1/40$

All:  $-84.832 \pm 0.280$   $\chi^2/\text{NDF}: 29080.0/81$

- sign  $-84.871 \pm 0.395$   $\chi^2/\text{NDF}: 13857.8/40$

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 179.290 $\pm$ 0.365  $\chi^2$ /NDF: 5984.1/23

Right Out: 178.822 $\pm$ 0.926  $\chi^2$ /NDF: 6171.0/17

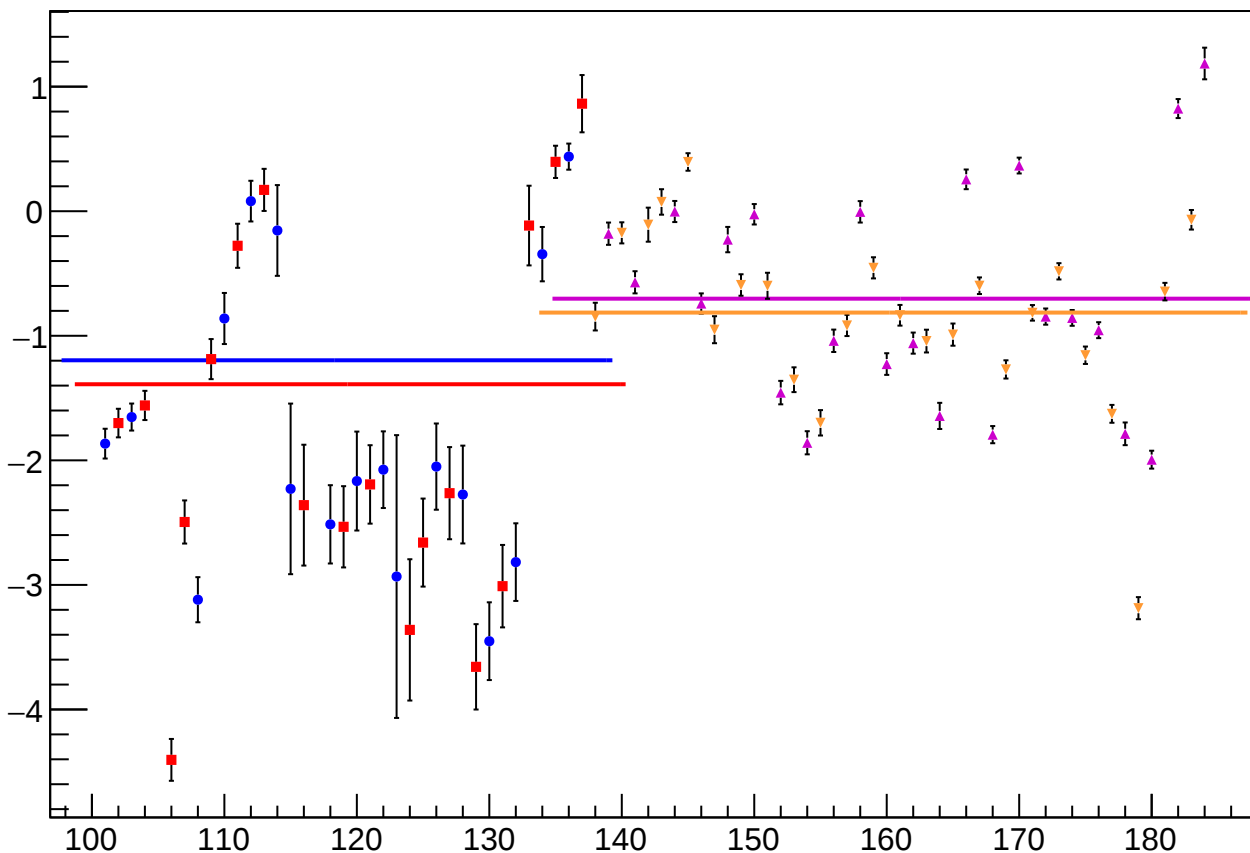
Left In: 176.449 $\pm$ 0.370  $\chi^2$ /NDF: 4442.1/22

+ sign 179.970 $\pm$ 0.339  $\chi^2$ /NDF: 11398.0/40

All: 178.392 $\pm$ 0.241  $\chi^2$ /NDF: 22060.5/81

- sign 176.775 $\pm$ 0.343  $\chi^2$ /NDF: 10618.7/40

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.814 \pm 0.017$   $\chi^2/\text{NDF}$ : 1640.1/23

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

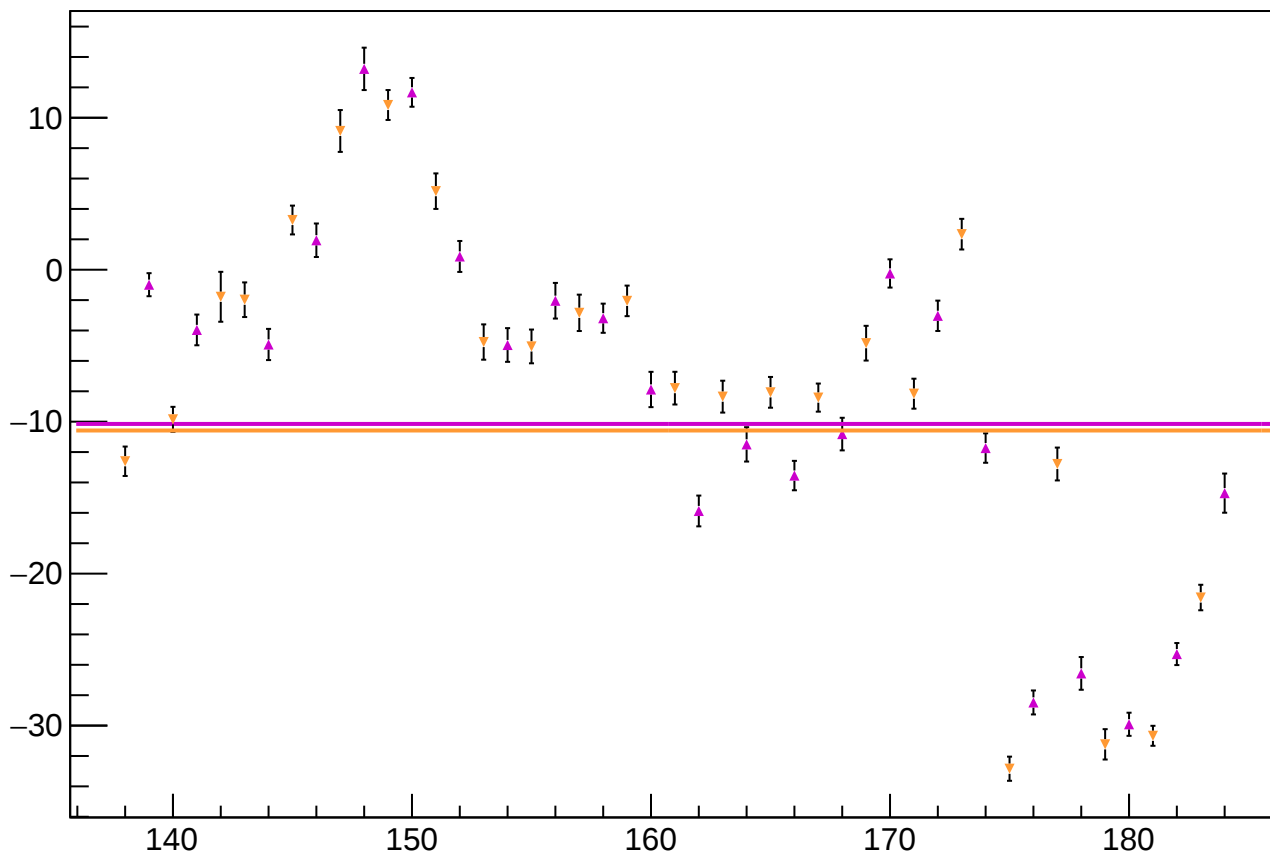
Left In:  $-0.702 \pm 0.017$   $\chi^2/\text{NDF}$ : 2421.3/22

+ sign  $-0.855 \pm 0.016$   $\chi^2/\text{NDF}$ : 2318.1/40

All:  $-0.819 \pm 0.011$   $\chi^2/\text{NDF}$ : 5868.2/81

- sign  $-0.783 \pm 0.016$   $\chi^2/\text{NDF}$ : 3539.7/40

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -10.580 $\pm$ 0.203  $\chi^2$ /NDF: 3866.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

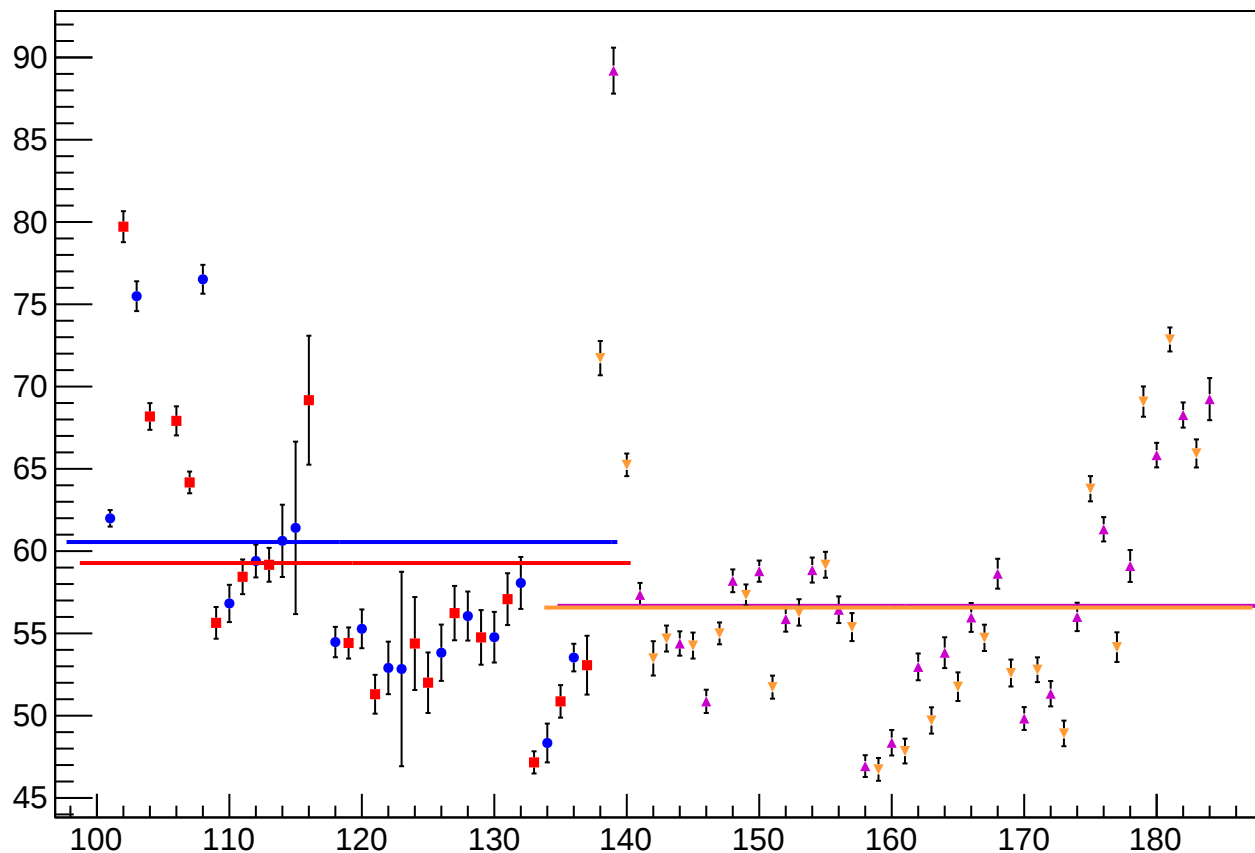
Left In: -10.149 $\pm$ 0.204  $\chi^2$ /NDF: 3491.7/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.365 $\pm$ 0.144  $\chi^2$ /NDF: 7360.3/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In:  $60.552 \pm 0.262$   $\chi^2/\text{NDF}$ : 931.0/16

Left Out:  $56.571 \pm 0.160$   $\chi^2/\text{NDF}$ : 1953.5/23

Right Out:  $59.276 \pm 0.249$   $\chi^2/\text{NDF}$ : 1274.8/17

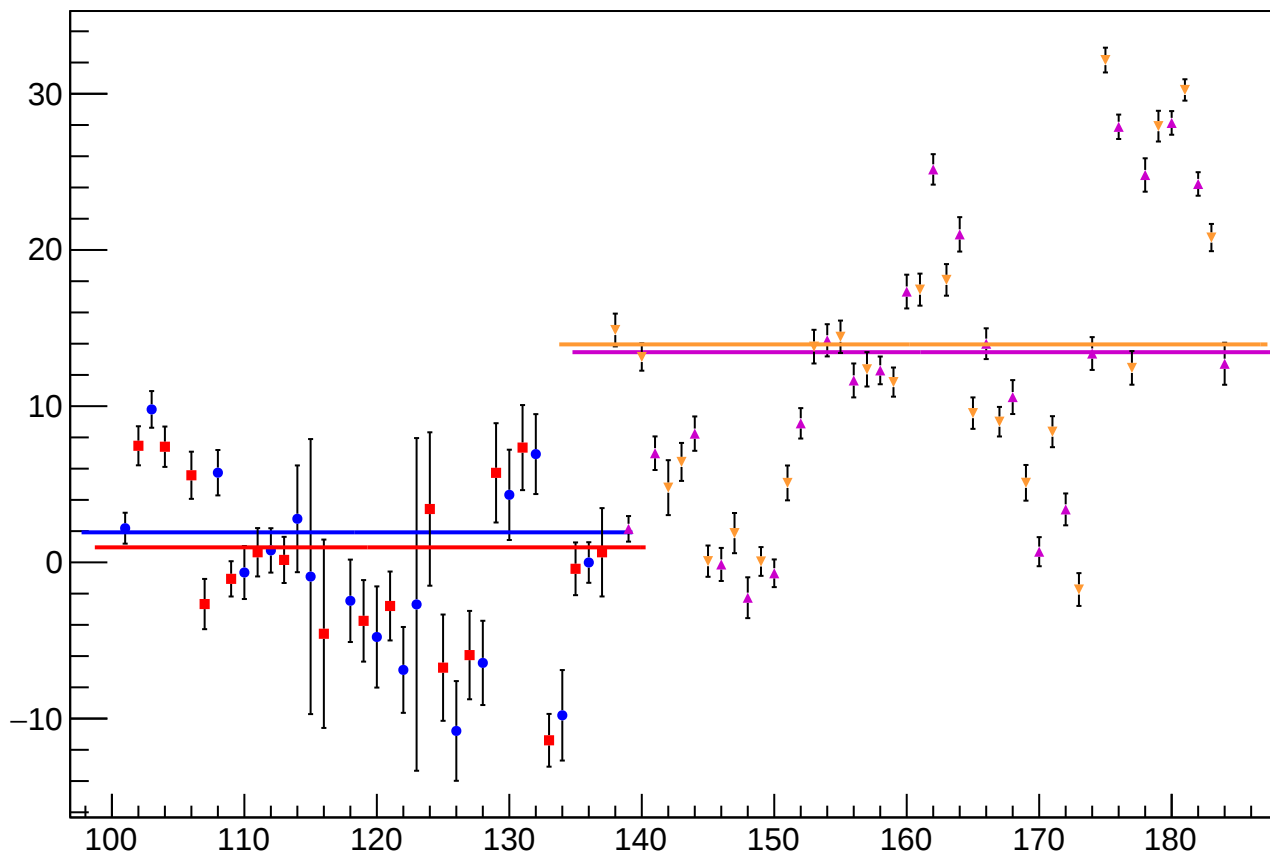
Left In:  $56.674 \pm 0.165$   $\chi^2/\text{NDF}$ : 1679.8/22

+ sign  $57.654 \pm 0.137$   $\chi^2/\text{NDF}$ : 3052.9/40

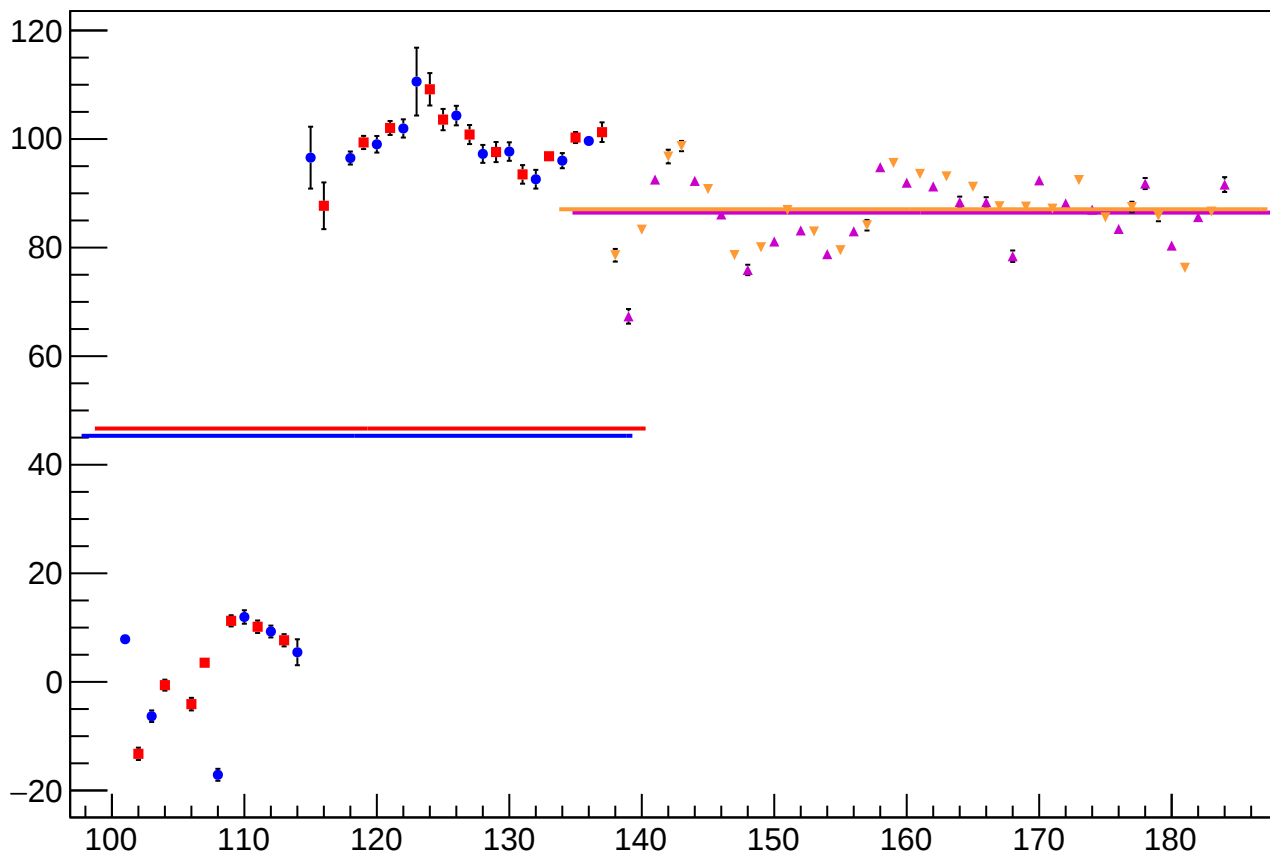
All:  $57.561 \pm 0.097$   $\chi^2/\text{NDF}$ : 6084.4/81

- sign  $57.466 \pm 0.137$   $\chi^2/\text{NDF}$ : 3030.6/40

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 87.058 $\pm$ 0.181  $\chi^2$ /NDF:1084.4/23

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

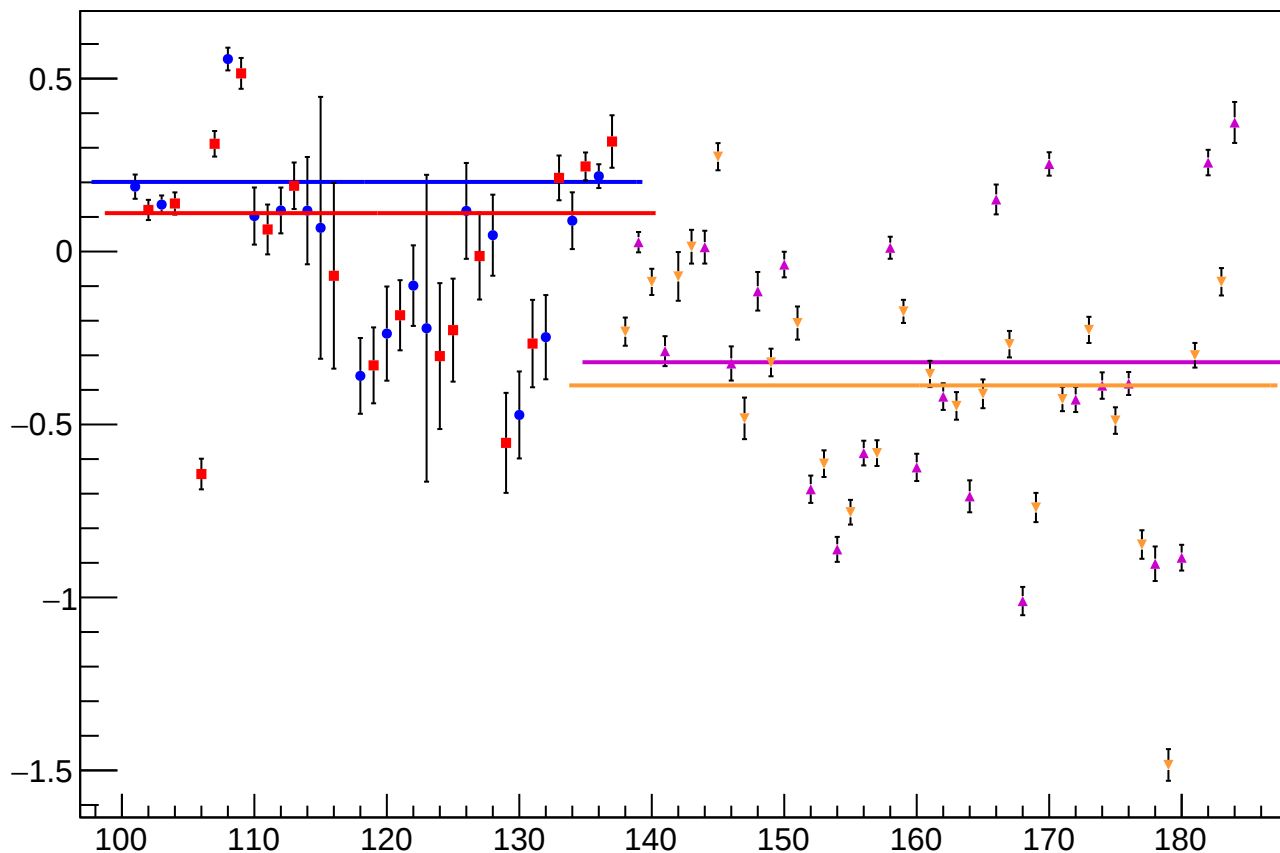
Left In: 86.443 $\pm$ 0.184  $\chi^2$ /NDF:1038.6/22

+ sign 76.160 $\pm$ 0.155  $\chi^2$ /NDF: 40048.1/40

All: 75.617 $\pm$ 0.110  $\chi^2$ /NDF: 82367.0/81

- sign 75.072 $\pm$ 0.155  $\chi^2$ /NDF: 42294.3/40

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.387 \pm 0.008$   $\chi^2/\text{NDF}$ : 1546.1/23

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

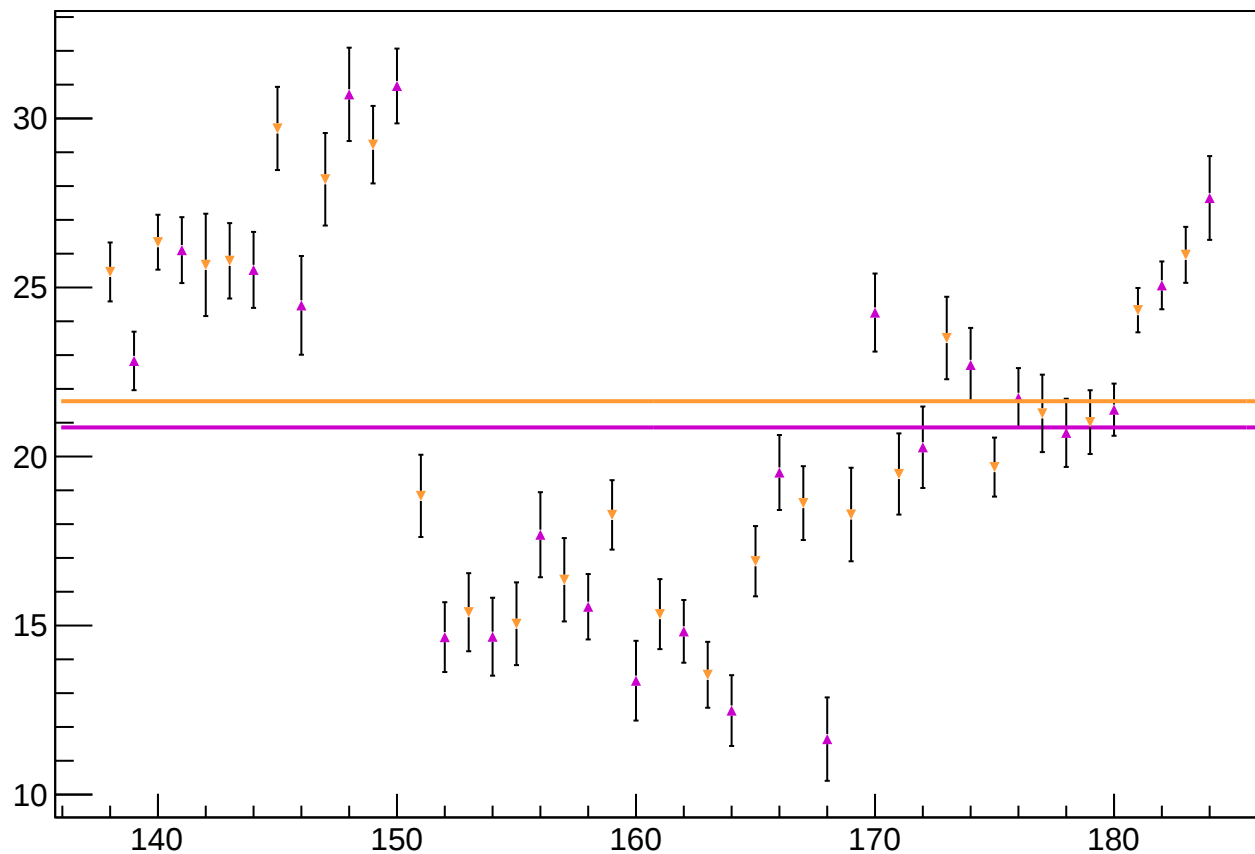
Left In:  $-0.320 \pm 0.008$   $\chi^2/\text{NDF}$ : 2325.0/22

+ sign  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 3070.4/40

All:  $-0.218 \pm 0.005$   $\chi^2/\text{NDF}$ : 6672.8/81

- sign  $-0.201 \pm 0.007$   $\chi^2/\text{NDF}$ : 3589.1/40

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $21.636 \pm 0.212$   $\chi^2/\text{NDF}$ : 471.6/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

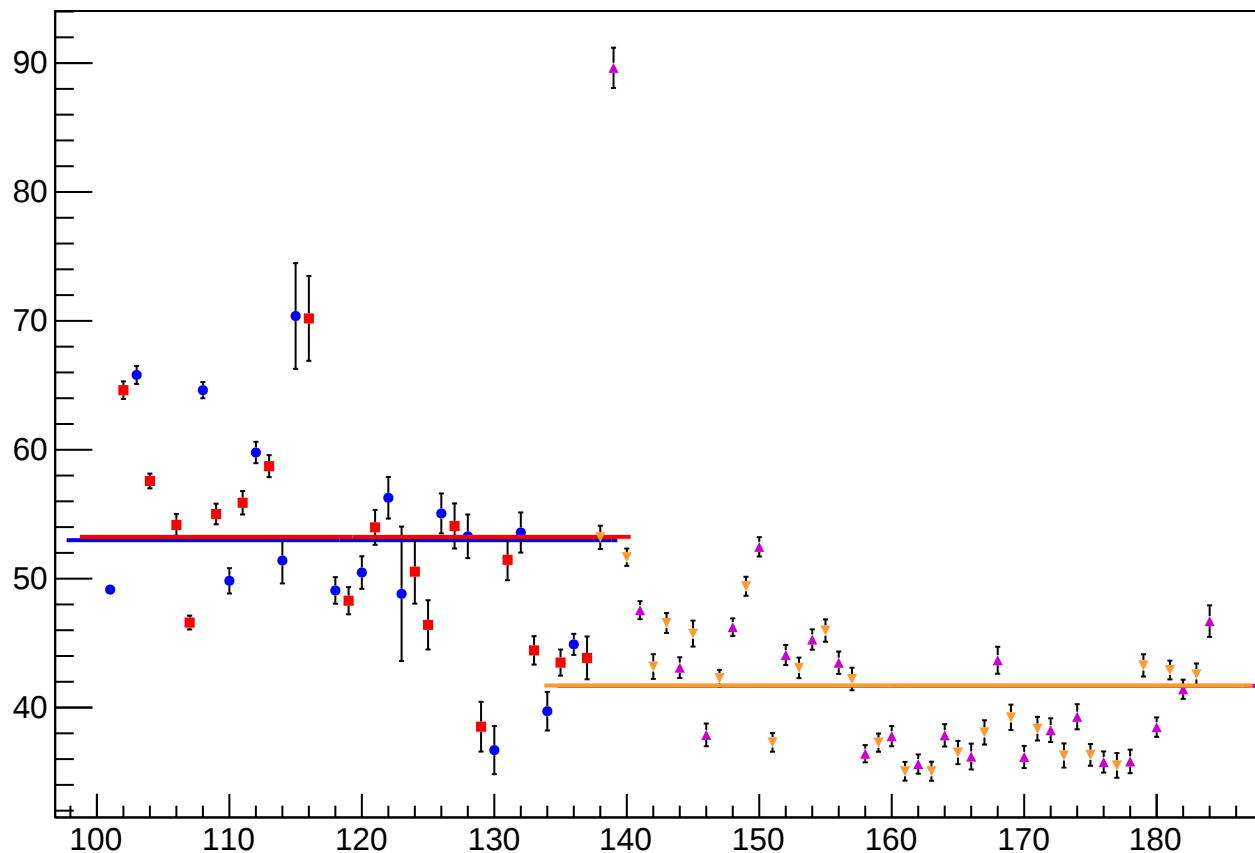
Left In:  $20.860 \pm 0.216$   $\chi^2/\text{NDF}$ : 575.5/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $21.256 \pm 0.151$   $\chi^2/\text{NDF}$ : 1053.7/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In:  $52.985 \pm 0.210$   $\chi^2/\text{NDF}$ : 1197.9/16

Left Out:  $41.710 \pm 0.166$   $\chi^2/\text{NDF}$ : 1010.2/23

Right Out:  $53.248 \pm 0.227$   $\chi^2/\text{NDF}$ : 856.4/17

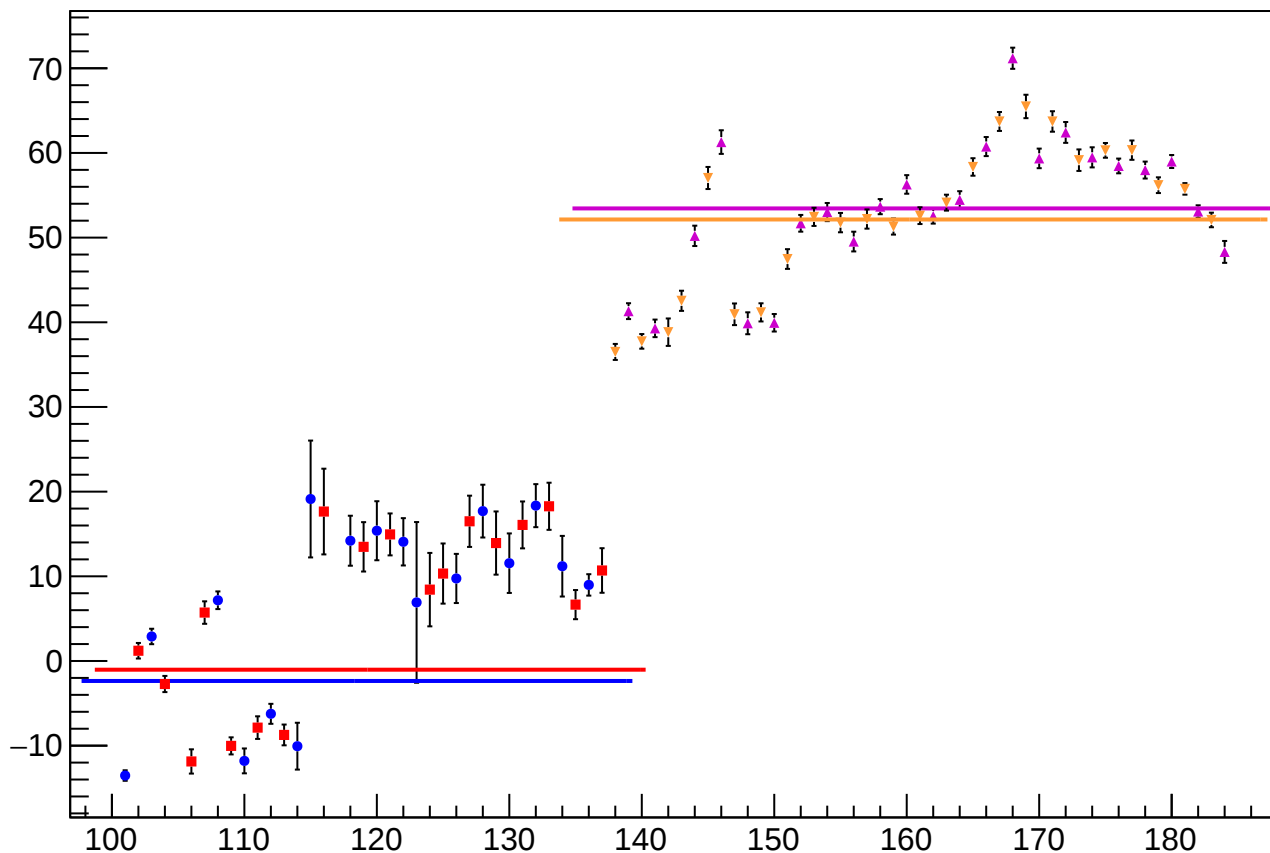
Left In:  $41.682 \pm 0.173$   $\chi^2/\text{NDF}$ : 1715.9/22

+ sign  $46.052 \pm 0.131$   $\chi^2/\text{NDF}$ : 3975.5/40

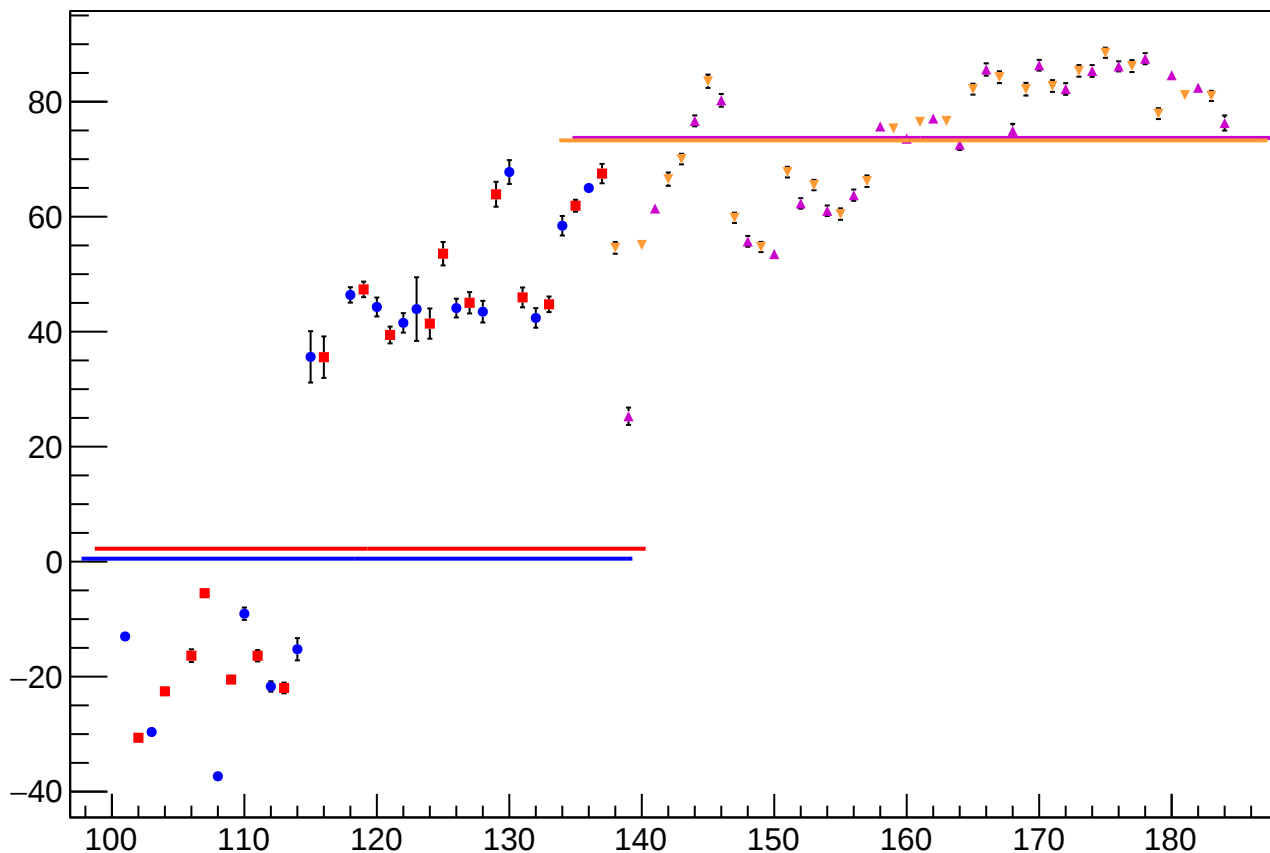
All:  $45.997 \pm 0.095$   $\chi^2/\text{NDF}$ : 8183.9/81

- sign  $45.936 \pm 0.138$   $\chi^2/\text{NDF}$ : 4208.0/40

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.518 \pm 0.247$   $\chi^2/\text{NDF}$ : 18386.0/16

Left Out:  $73.266 \pm 0.188$   $\chi^2/\text{NDF}$ : 3144.7/23

Right Out:  $2.246 \pm 0.267$   $\chi^2/\text{NDF}$ : 15377.0/17

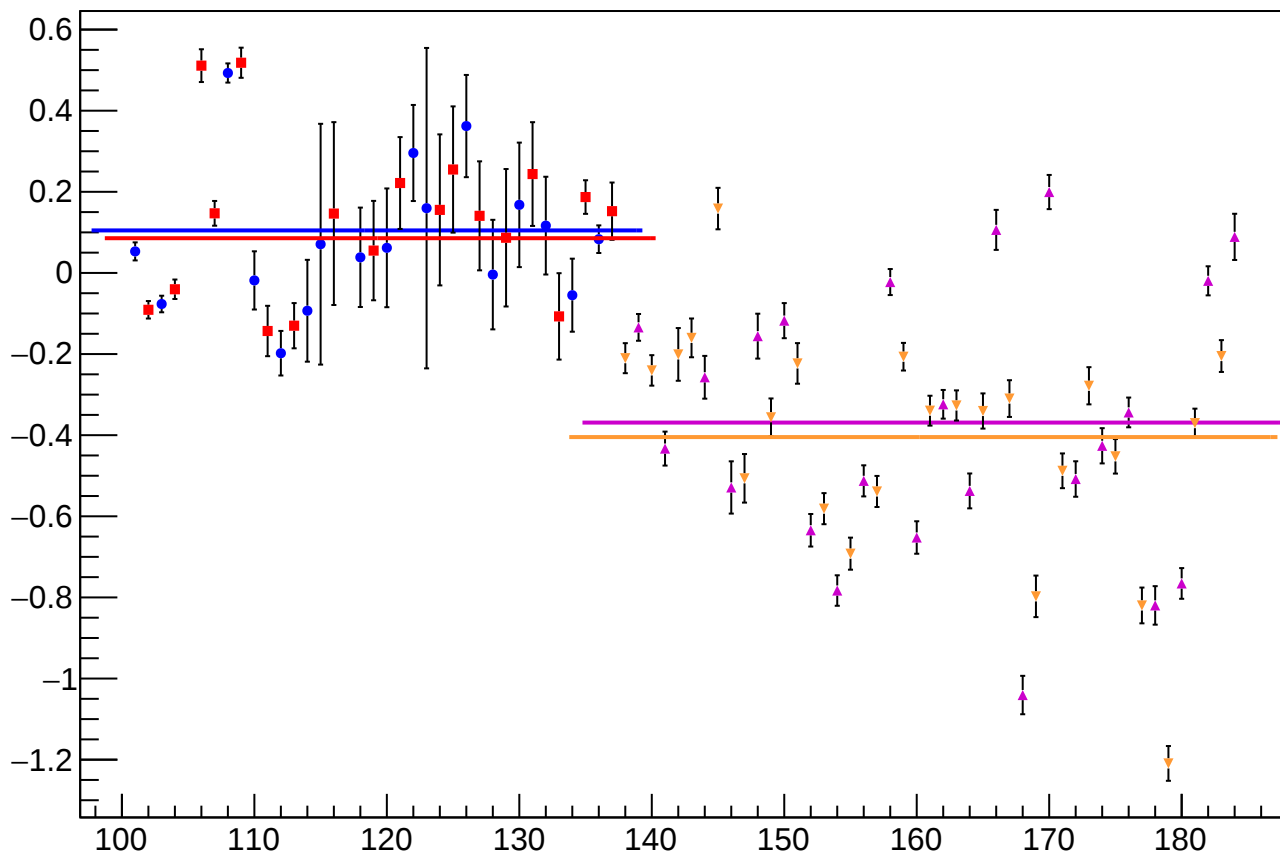
Left In:  $73.699 \pm 0.194$   $\chi^2/\text{NDF}$ : 3901.1/22

+ sign  $46.537 \pm 0.150$   $\chi^2/\text{NDF}$ : 76436.6/40

All:  $47.750 \pm 0.108$   $\chi^2/\text{NDF}$ : 142654.9/81

- sign  $49.083 \pm 0.157$   $\chi^2/\text{NDF}$ : 66080.4/40

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.405 \pm 0.009$   $\chi^2/\text{NDF}$ : 894.8/23

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}$ : 388.3/17

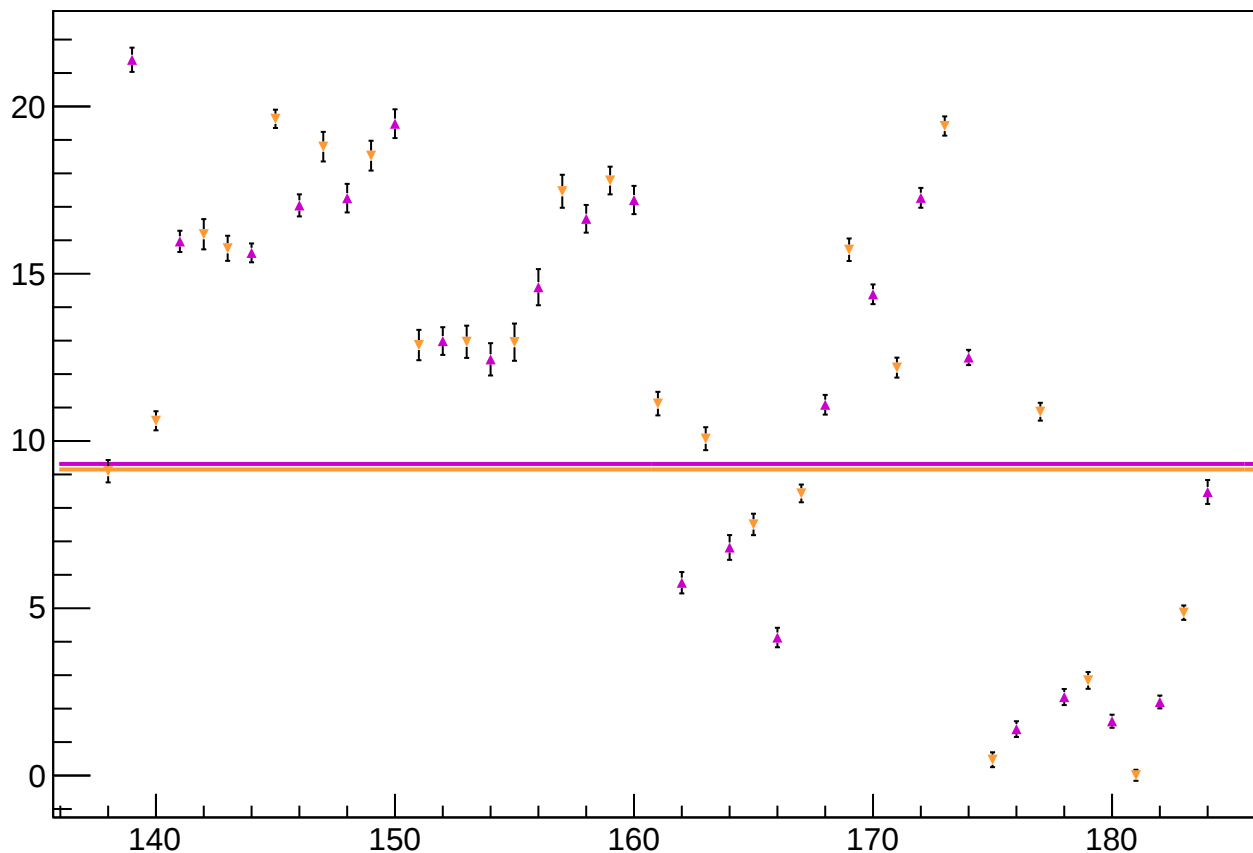
Left In:  $-0.369 \pm 0.009$   $\chi^2/\text{NDF}$ : 1322.7/22

+ sign  $-0.211 \pm 0.007$   $\chi^2/\text{NDF}$ : 2618.3/40

All:  $-0.204 \pm 0.005$   $\chi^2/\text{NDF}$ : 5376.2/81

- sign  $-0.197 \pm 0.007$   $\chi^2/\text{NDF}$ : 2755.5/40

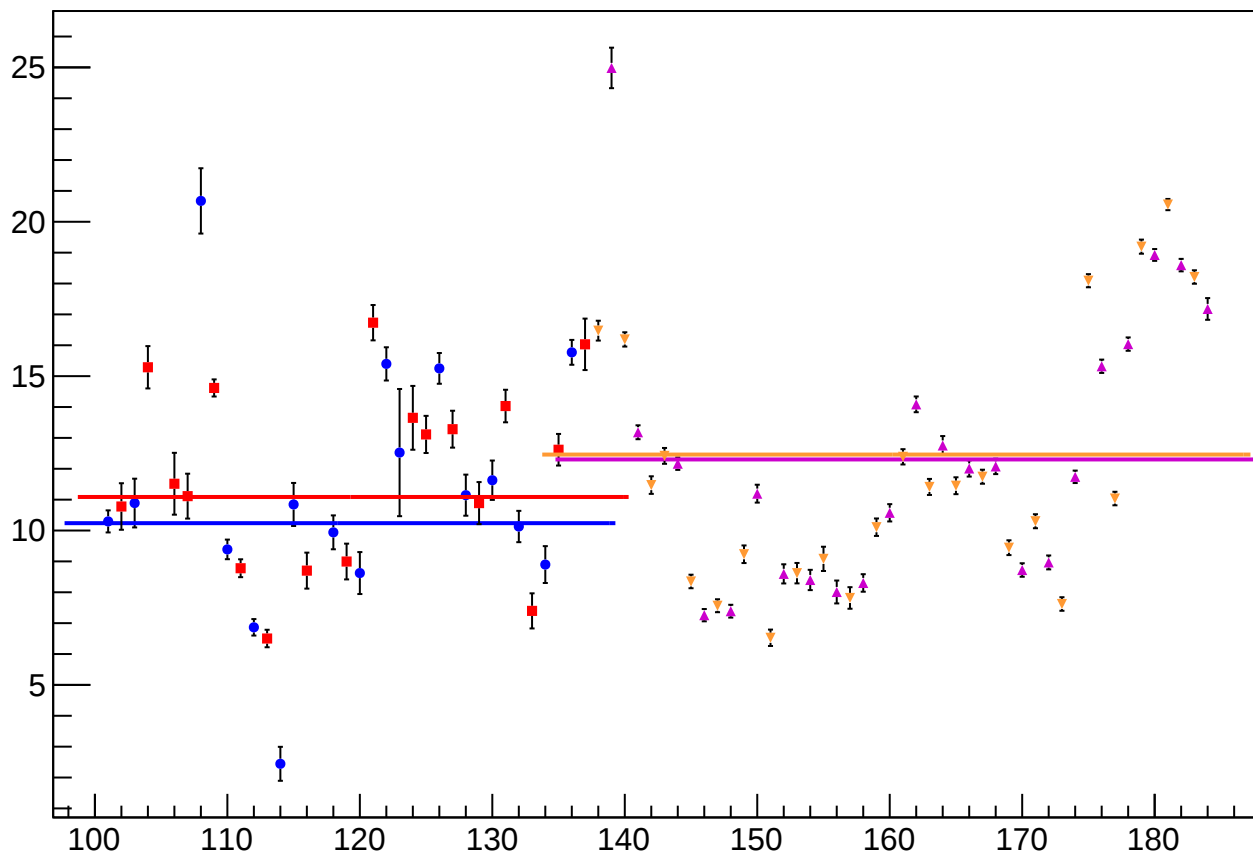
# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 9.149+/-0.062  $\chi^2/\text{NDF}$ :11348.0/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.315+/-0.063  $\chi^2/\text{NDF}$ :11007.3/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 9.231+/-0.044  $\chi^2/\text{NDF}$ : 22358.8/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 10.238 $\pm$ 0.119  $\chi^2$ /NDF: 867.4/16

Left Out: 12.460 $\pm$ 0.050  $\chi^2$ /NDF: 7464.5/23

Right Out: 11.087 $\pm$ 0.116  $\chi^2$ /NDF: 801.0/17

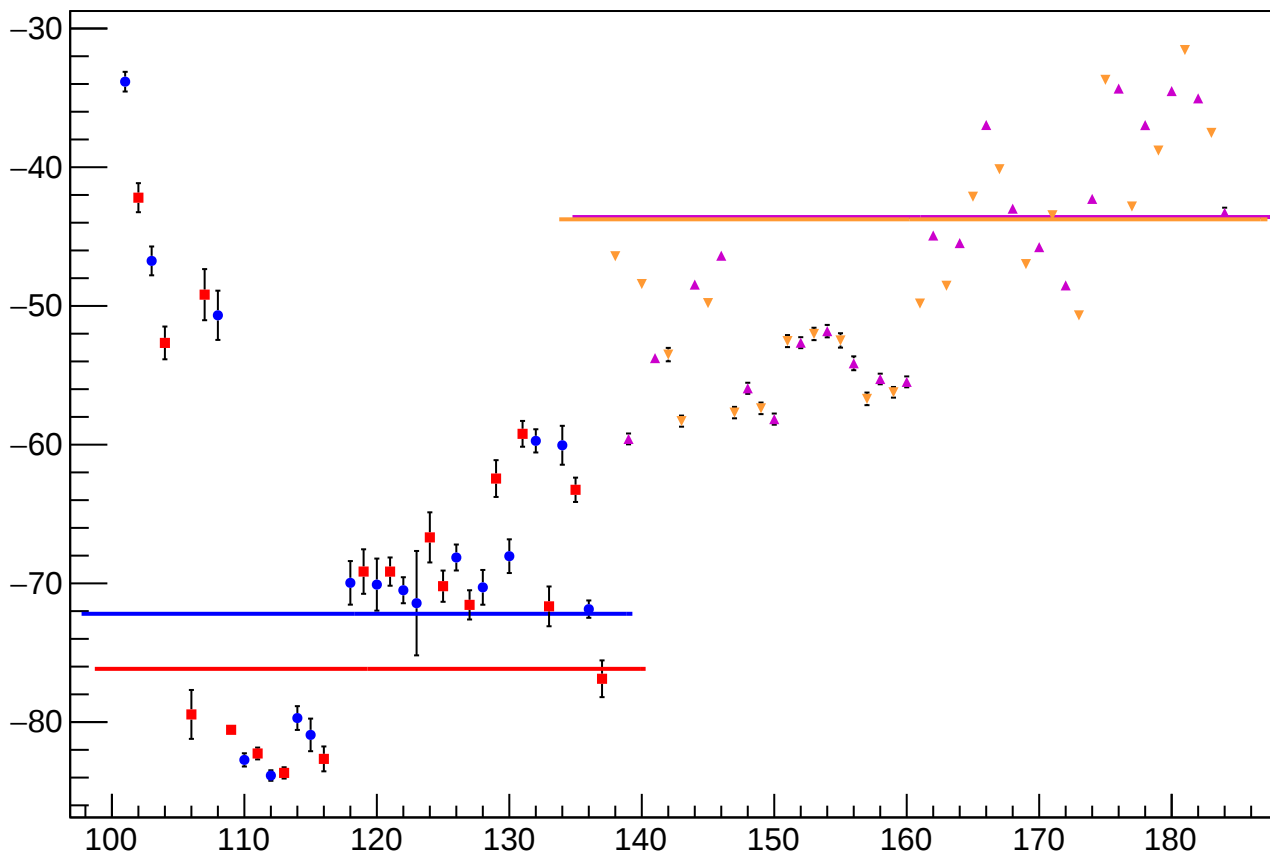
Left In: 12.302 $\pm$ 0.051  $\chi^2$ /NDF: 5661.3/22

+ sign 12.125 $\pm$ 0.046  $\chi^2$ /NDF: 8627.2/40

All: 12.116 $\pm$ 0.033  $\chi^2$ /NDF: 15180.9/81

- sign 12.106 $\pm$ 0.047  $\chi^2$ /NDF: 6553.6/40

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}: 5563.0/16$

Left Out:  $-43.756 \pm 0.063$   $\chi^2/\text{NDF}: 17190.6/23$

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}: 3223.3/17$

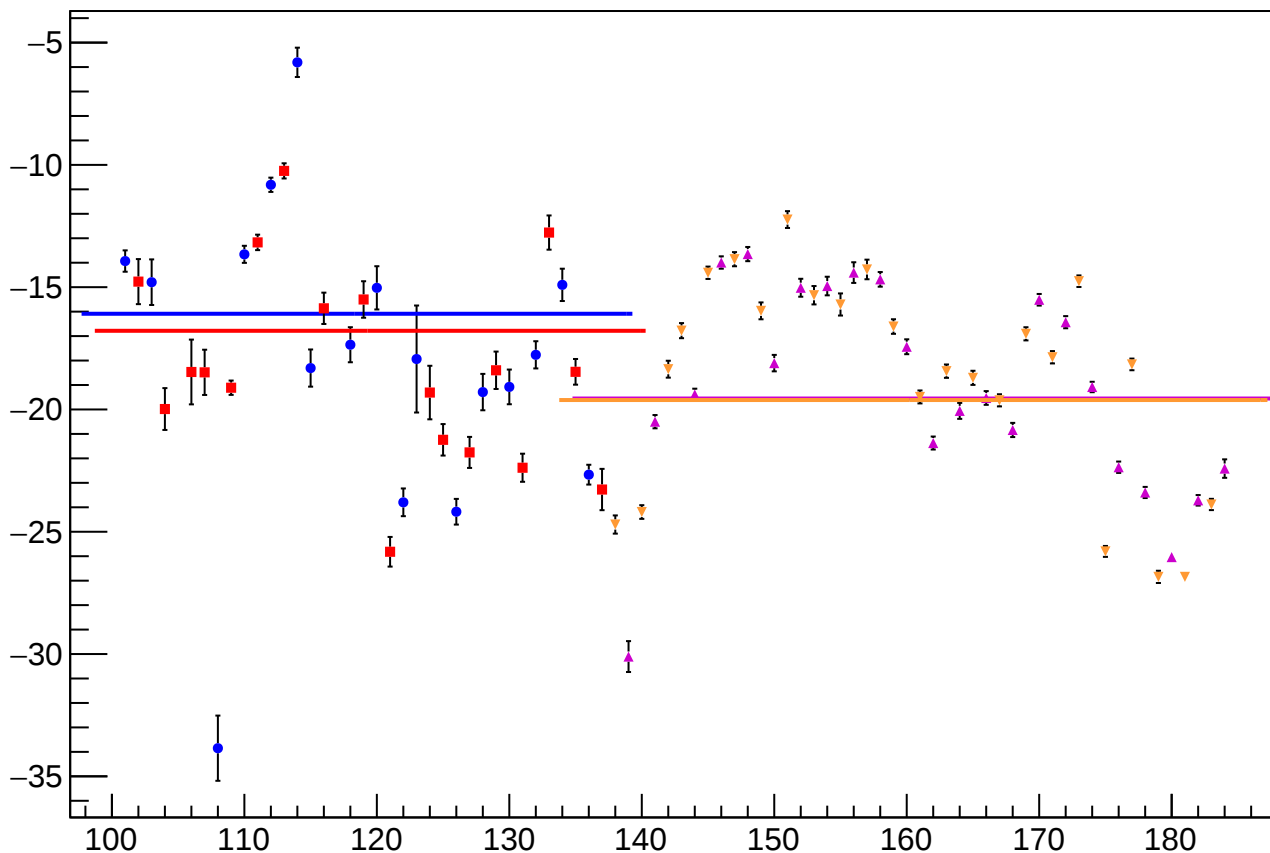
Left In:  $-43.591 \pm 0.063$   $\chi^2/\text{NDF}: 15574.9/22$

+ sign  $-46.338 \pm 0.060$   $\chi^2/\text{NDF}: 41480.6/40$

All:  $-46.725 \pm 0.042$   $\chi^2/\text{NDF}: 89170.7/81$

- sign  $-47.110 \pm 0.060$   $\chi^2/\text{NDF}: 47606.4/40$

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In: -16.087 $\pm$ 0.132  $\chi^2$ /NDF: 1621.7/16

Left Out: -19.615 $\pm$ 0.056  $\chi^2$ /NDF: 6384.9/23

Right Out: -16.783 $\pm$ 0.128  $\chi^2$ /NDF: 1204.4/17

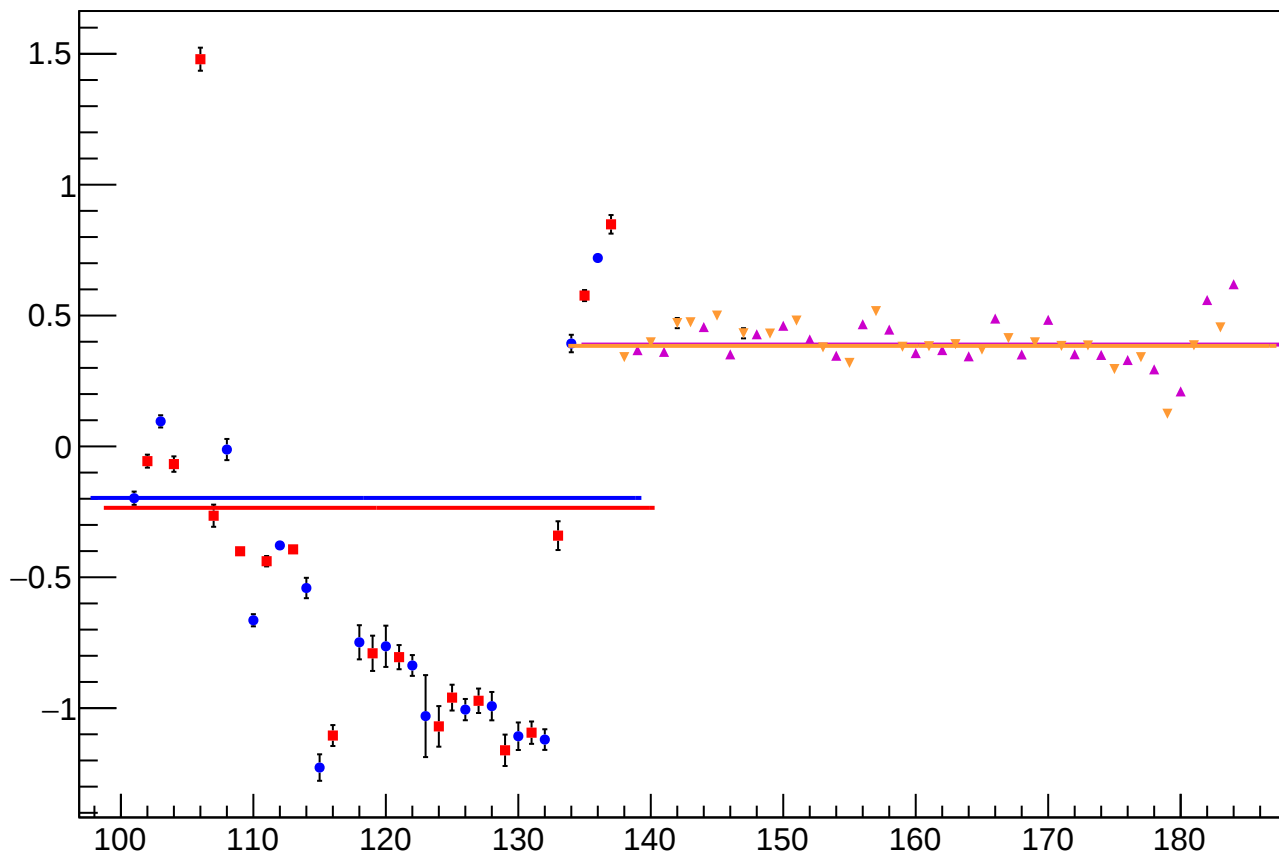
Left In: -19.552 $\pm$ 0.057  $\chi^2$ /NDF: 4359.1/22

+ sign -19.073 $\pm$ 0.052  $\chi^2$ /NDF: 8607.4/40

All: -19.083 $\pm$ 0.037  $\chi^2$ /NDF: 14560.1/81

- sign -19.094 $\pm$ 0.052  $\chi^2$ /NDF: 5952.6/40

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.384 \pm 0.003$   $\chi^2/\text{NDF}$ : 951.9/23

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

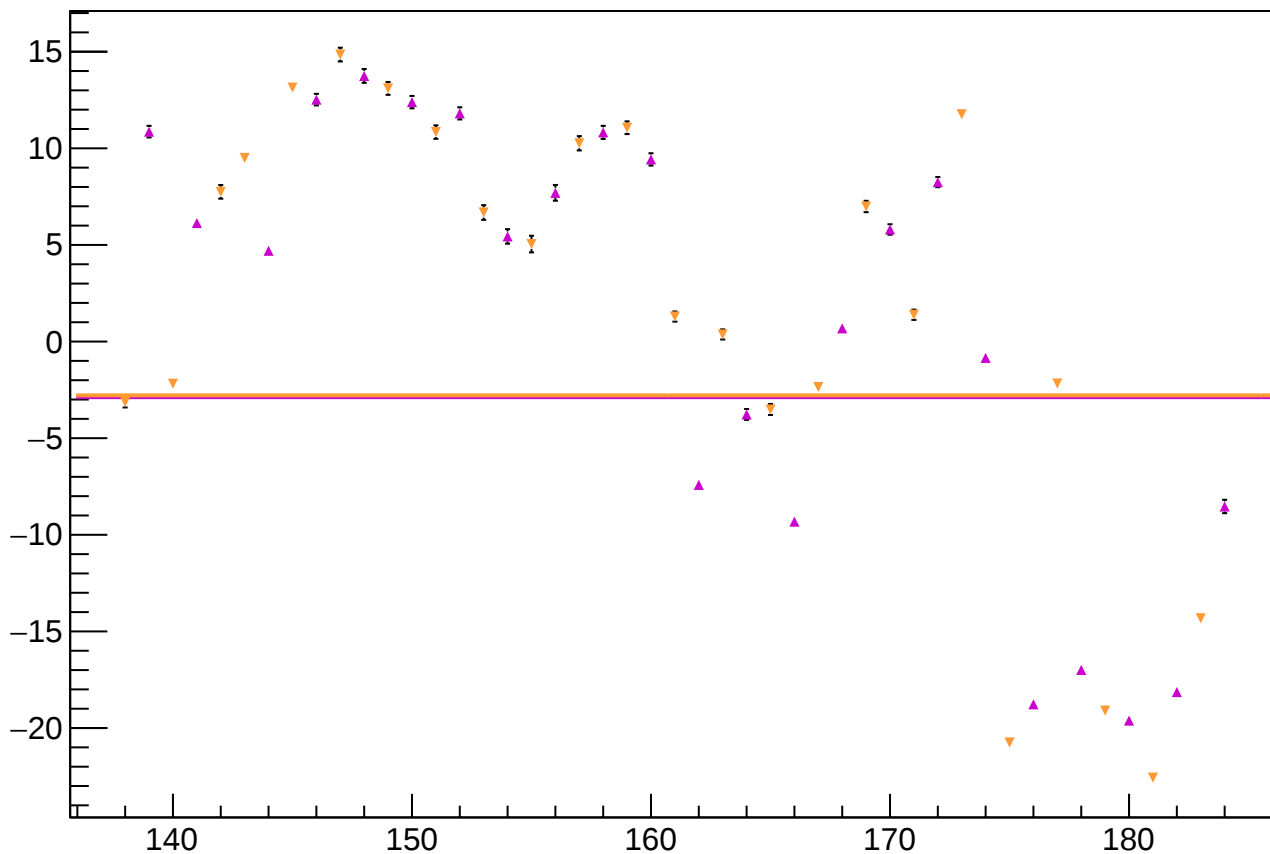
Left In:  $0.389 \pm 0.003$   $\chi^2/\text{NDF}$ : 1257.1/22

+ sign  $0.323 \pm 0.002$   $\chi^2/\text{NDF}$ : 12579.8/40

All:  $0.320 \pm 0.002$   $\chi^2/\text{NDF}$ : 26698.3/81

- sign  $0.317 \pm 0.002$   $\chi^2/\text{NDF}$ : 14115.4/40

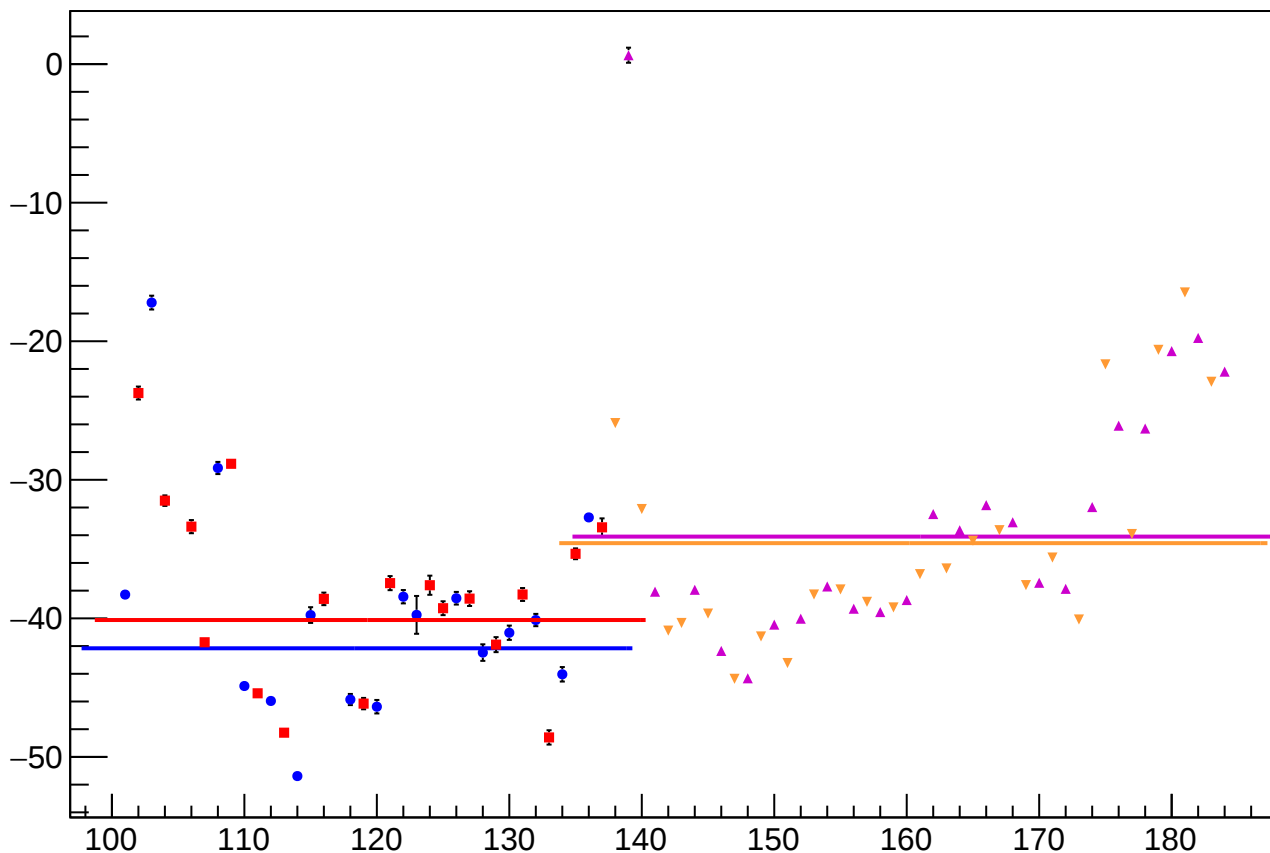
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.785+/-0.053  $\chi^2/\text{NDF}$ : 53866.7/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.876+/-0.055  $\chi^2/\text{NDF}$ : 46380.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -2.829+/-0.038  $\chi^2/\text{NDF}$ : 100249.1/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-42.160 \pm 0.078$   $\chi^2/\text{NDF}$ : 6570.6/16

Left Out:  $-34.572 \pm 0.042$   $\chi^2/\text{NDF}$ : 34483.2/23

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}$ : 10884.6/17

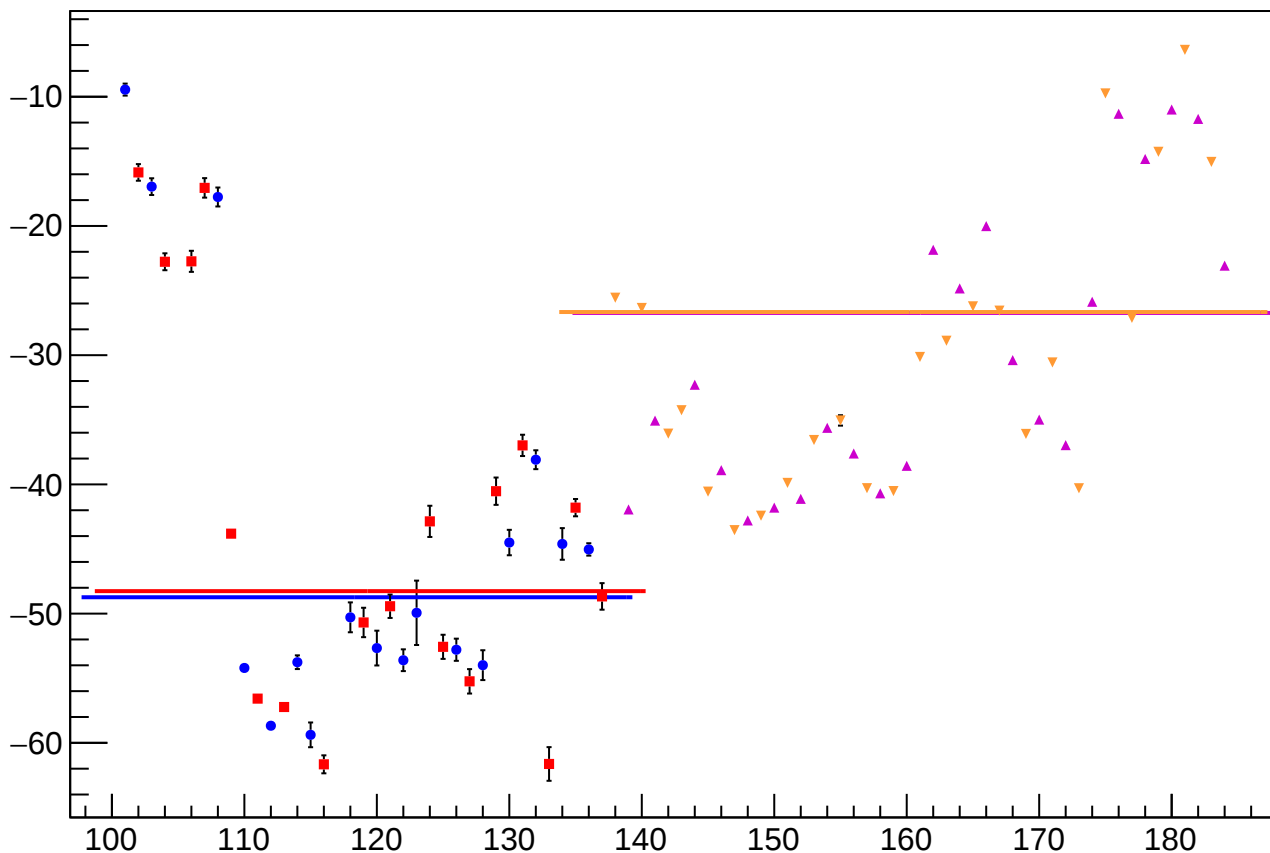
Left In:  $-34.099 \pm 0.044$   $\chi^2/\text{NDF}$ : 29370.6/22

+ sign  $-36.287 \pm 0.037$   $\chi^2/\text{NDF}$ : 48395.0/40

All:  $-35.998 \pm 0.026$   $\chi^2/\text{NDF}$ : 93787.2/81

- sign  $-35.700 \pm 0.038$   $\chi^2/\text{NDF}$ : 45268.5/40

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}$ : 14659.4/16

Left Out:  $-26.660 \pm 0.054$   $\chi^2/\text{NDF}$ : 47485.4/23

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}$ : 11091.7/17

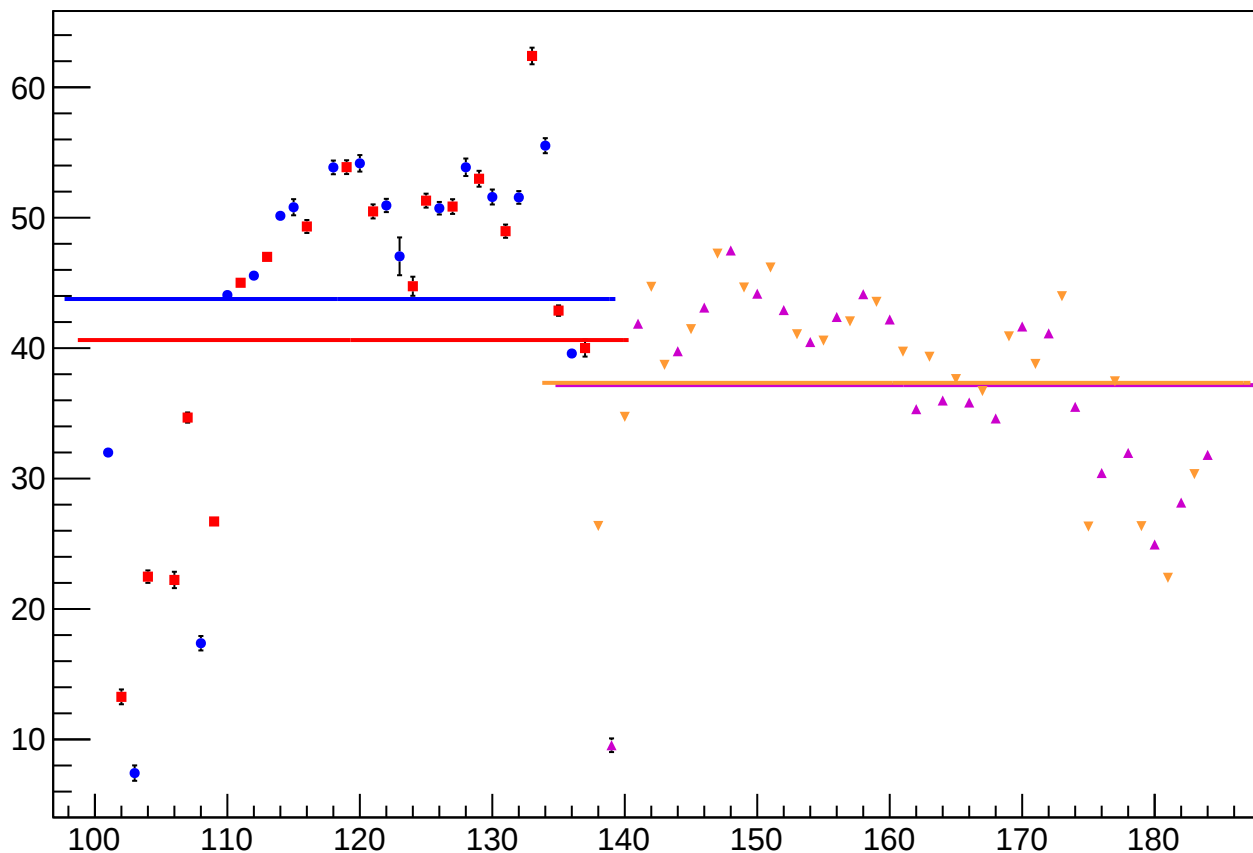
Left In:  $-26.733 \pm 0.055$   $\chi^2/\text{NDF}$ : 42643.0/22

+ sign  $-30.110 \pm 0.049$   $\chi^2/\text{NDF}$ : 88587.2/40

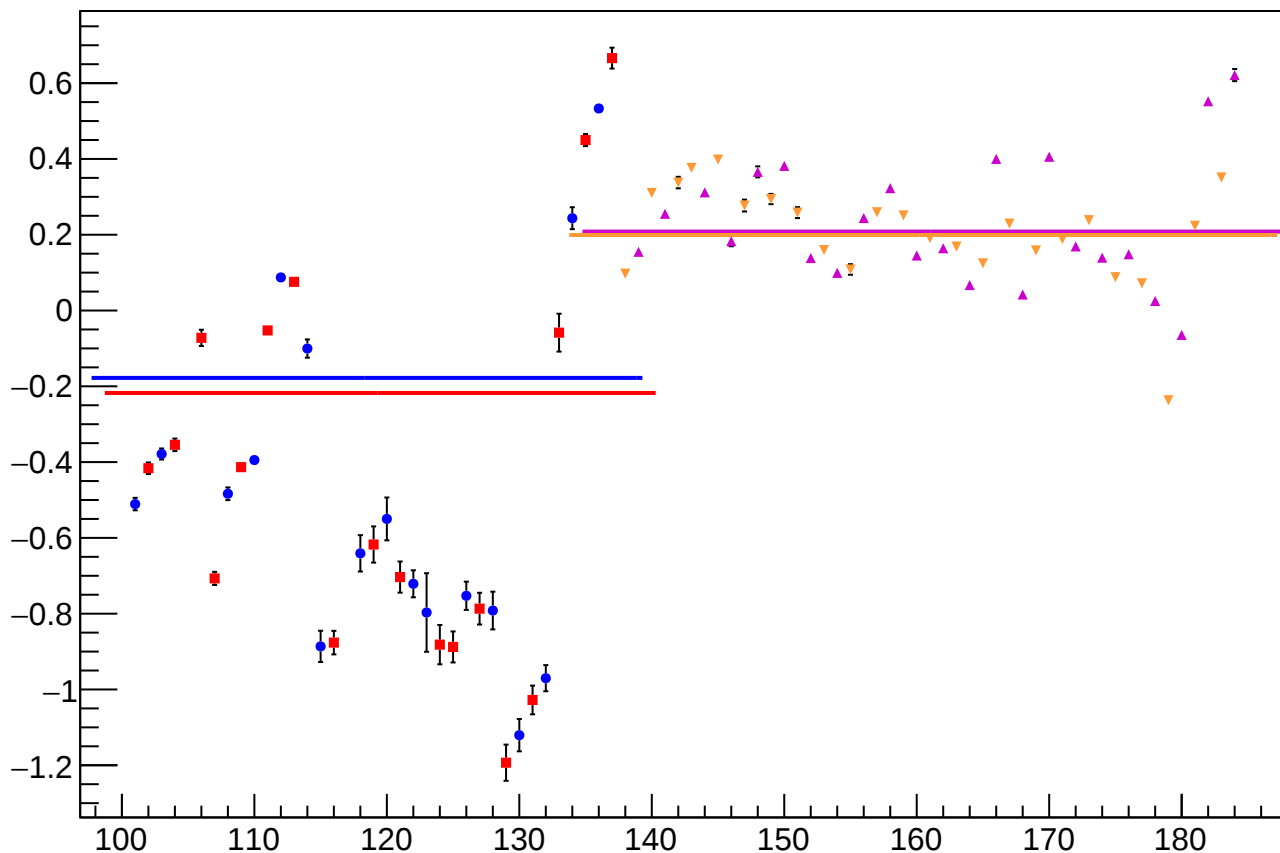
All:  $-30.644 \pm 0.035$   $\chi^2/\text{NDF}$ : 174433.7/81

- sign  $-31.168 \pm 0.049$   $\chi^2/\text{NDF}$ : 85613.6/40

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.199 \pm 0.002$   $\chi^2/\text{NDF}$ : 3543.4/23

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

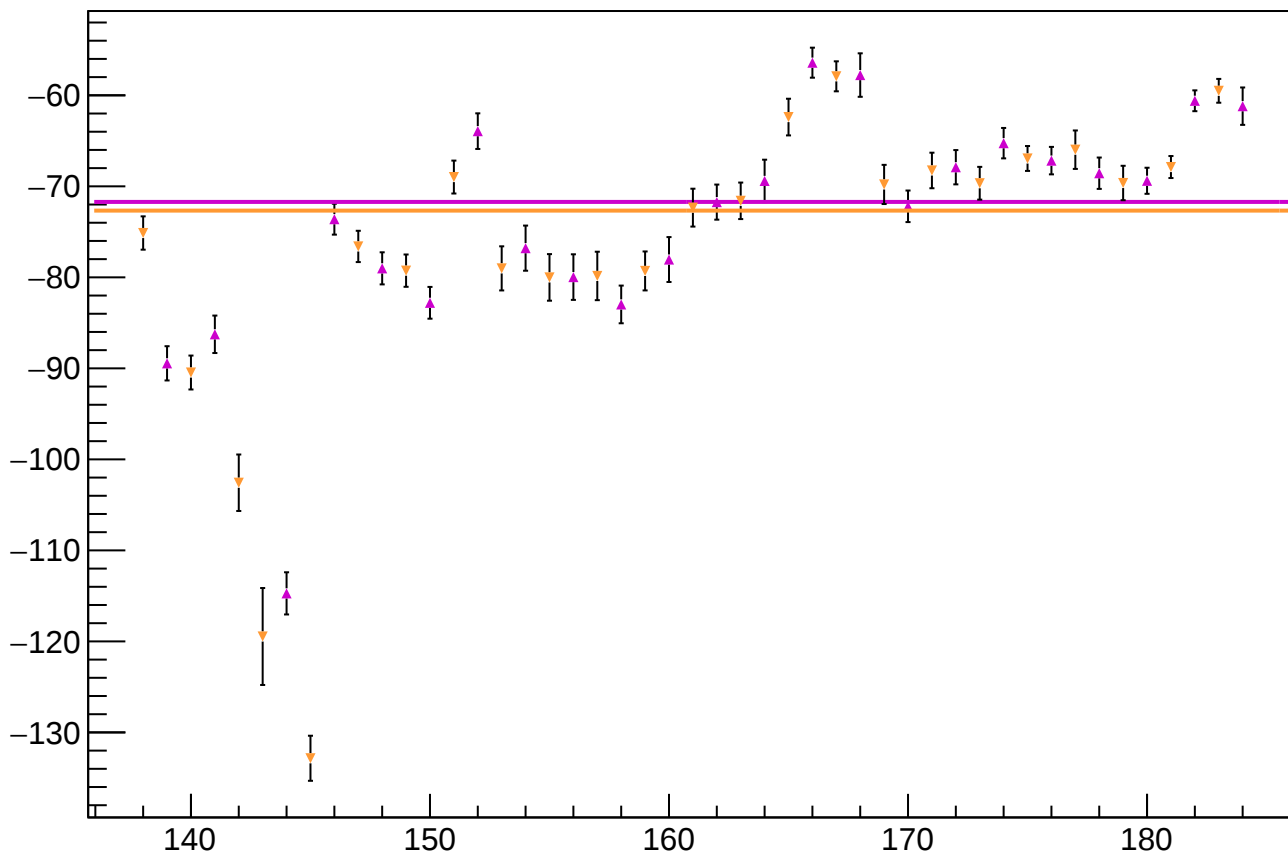
Left In:  $0.208 \pm 0.002$   $\chi^2/\text{NDF}$ : 5095.2/22

+ sign  $0.135 \pm 0.002$   $\chi^2/\text{NDF}$ : 15935.9/40

All:  $0.126 \pm 0.001$   $\chi^2/\text{NDF}$ : 36204.7/81

- sign  $0.118 \pm 0.002$   $\chi^2/\text{NDF}$ : 20233.2/40

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -72.667 $\pm$ 0.386  $\chi^2$ /NDF:1172.2/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

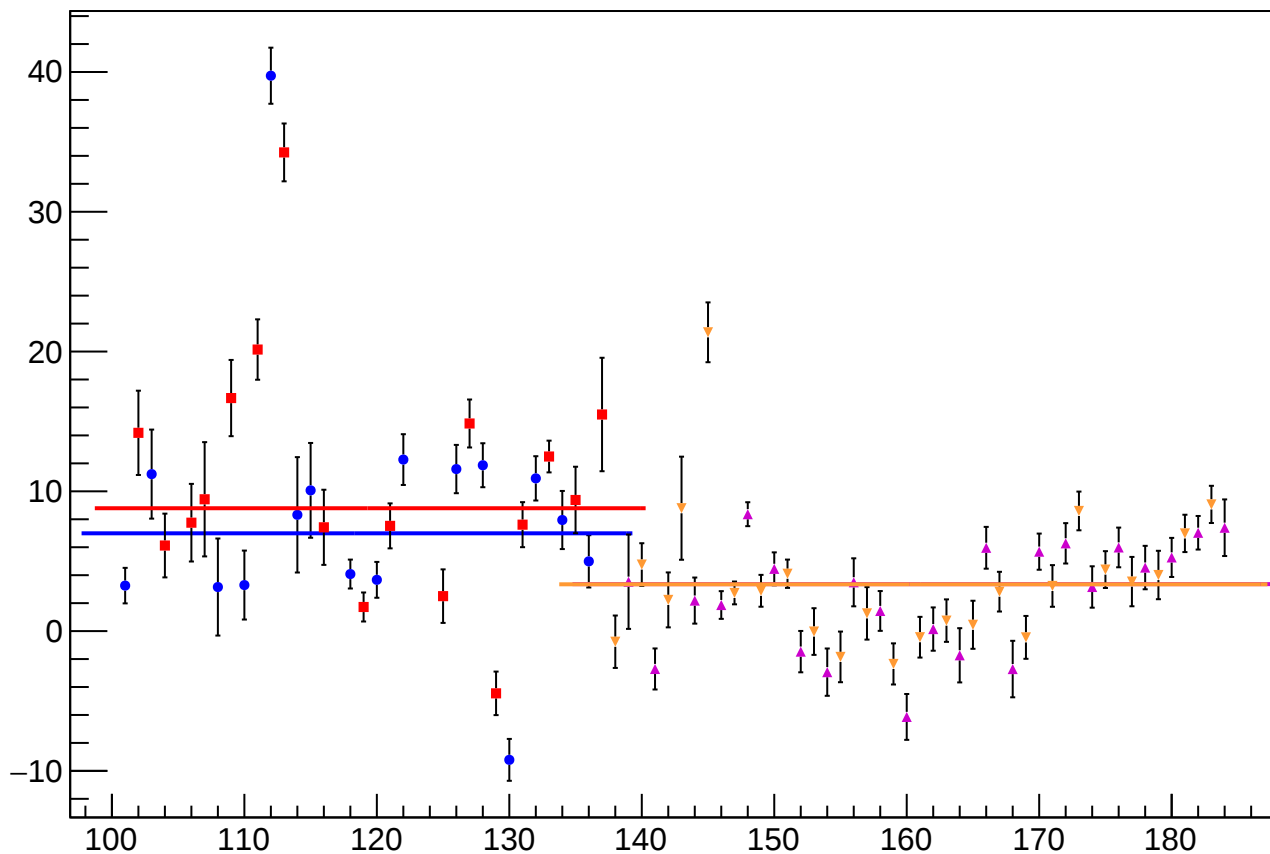
Left In: -71.713 $\pm$ 0.380  $\chi^2$ /NDF:884.6/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -72.183 $\pm$ 0.271  $\chi^2$ /NDF: 2060.0/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In:  $6.996 \pm 0.434$   $\chi^2/\text{NDF}$ : 445.3/15

Left Out:  $3.348 \pm 0.296$   $\chi^2/\text{NDF}$ : 168.8/23

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}$ : 348.8/16

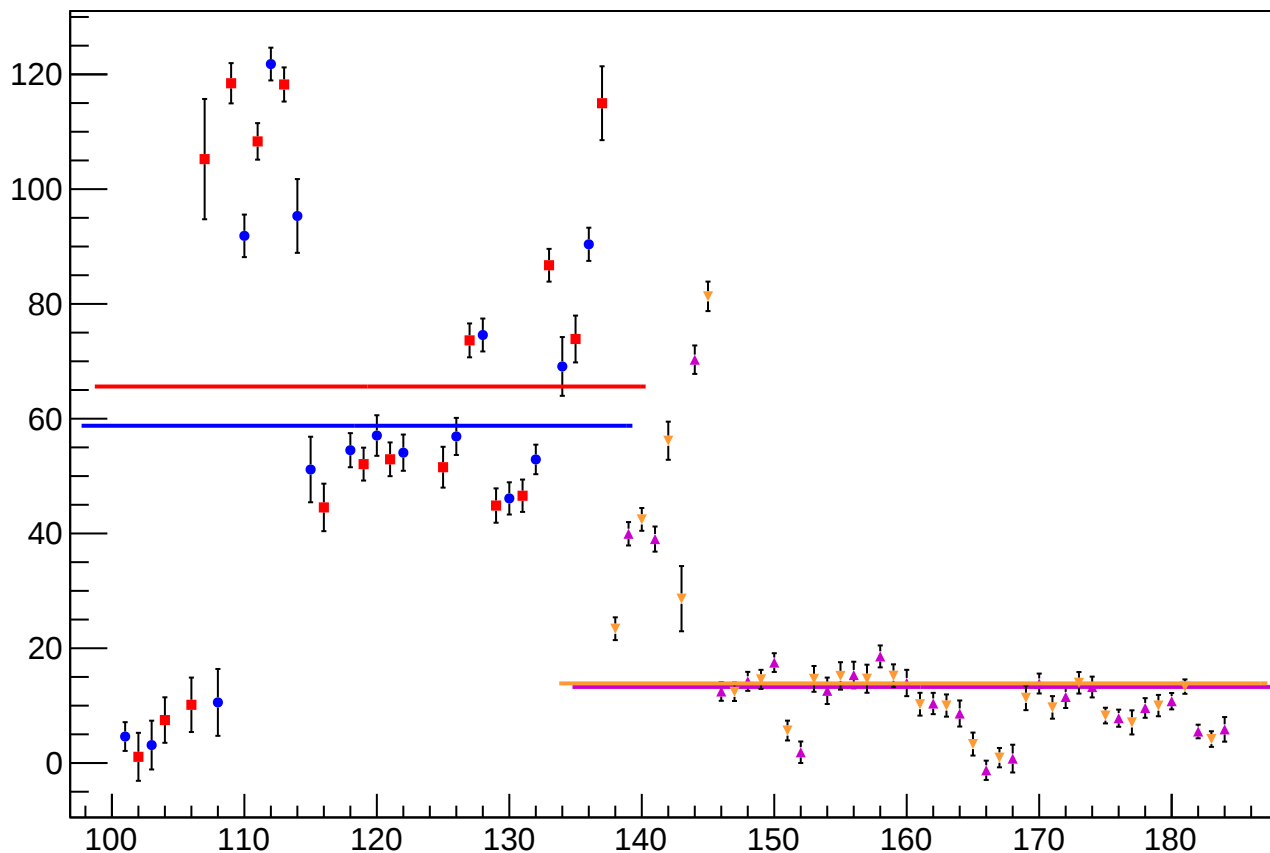
Left In:  $3.360 \pm 0.298$   $\chi^2/\text{NDF}$ : 164.5/22

+ sign  $4.506 \pm 0.245$   $\chi^2/\text{NDF}$ : 662.3/39

All:  $4.756 \pm 0.174$   $\chi^2/\text{NDF}$ : 1279.3/79

- sign  $5.015 \pm 0.248$   $\chi^2/\text{NDF}$ : 614.8/39

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In:  $58.770 \pm 0.833$   $\chi^2/\text{NDF}$ : 1493.3/15

Left Out:  $13.875 \pm 0.384$   $\chi^2/\text{NDF}$ : 1295.9/23

Right Out:  $65.606 \pm 0.845$   $\chi^2/\text{NDF}$ : 1625.3/16

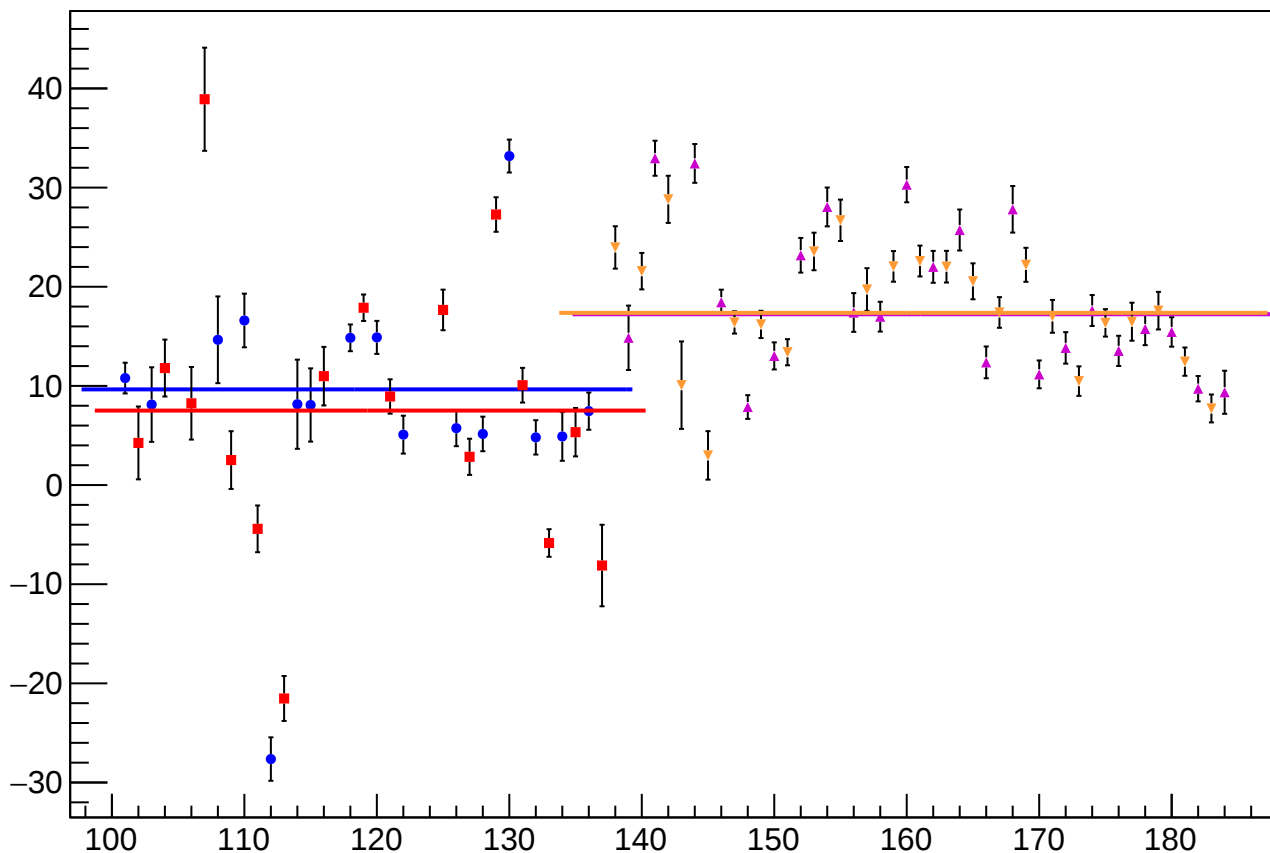
Left In:  $13.262 \pm 0.379$   $\chi^2/\text{NDF}$ : 1077.0/22

+ sign  $21.757 \pm 0.349$   $\chi^2/\text{NDF}$ : 5184.4/39

All:  $21.888 \pm 0.246$   $\chi^2/\text{NDF}$ : 11084.7/79

- sign  $22.015 \pm 0.345$   $\chi^2/\text{NDF}$ : 5900.0/39

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}$ : 553.6/15

Left Out:  $17.367 \pm 0.339$   $\chi^2/\text{NDF}$ : 238.8/23

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}$ : 564.3/16

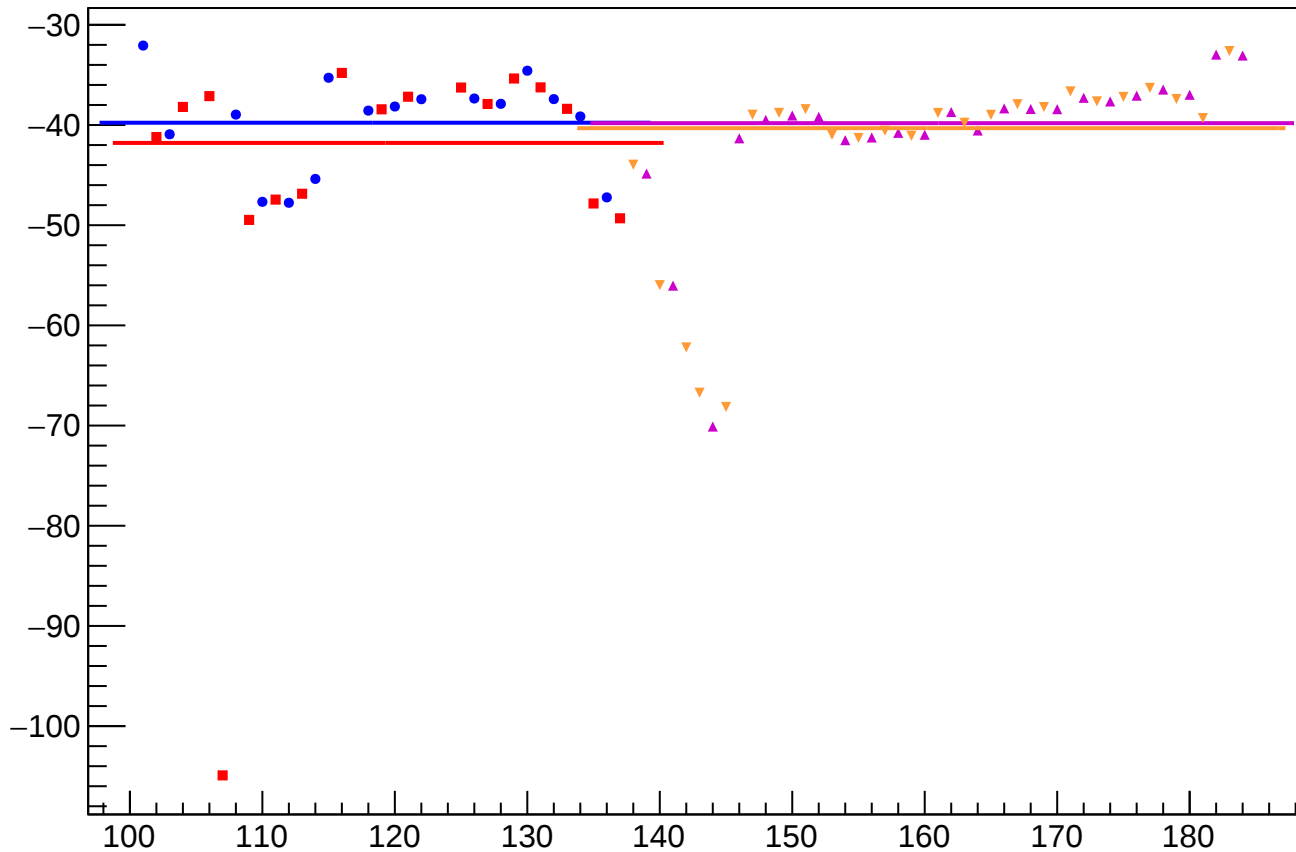
Left In:  $17.224 \pm 0.339$   $\chi^2/\text{NDF}$ : 442.2/22

+ sign  $14.950 \pm 0.281$   $\chi^2/\text{NDF}$ : 954.8/39

All:  $14.630 \pm 0.199$   $\chi^2/\text{NDF}$ : 2211.3/79

- sign  $14.305 \pm 0.283$   $\chi^2/\text{NDF}$ : 1253.9/39

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-40.315 \pm 0.016$   $\chi^2/\text{NDF}$ : 180158.5/23

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

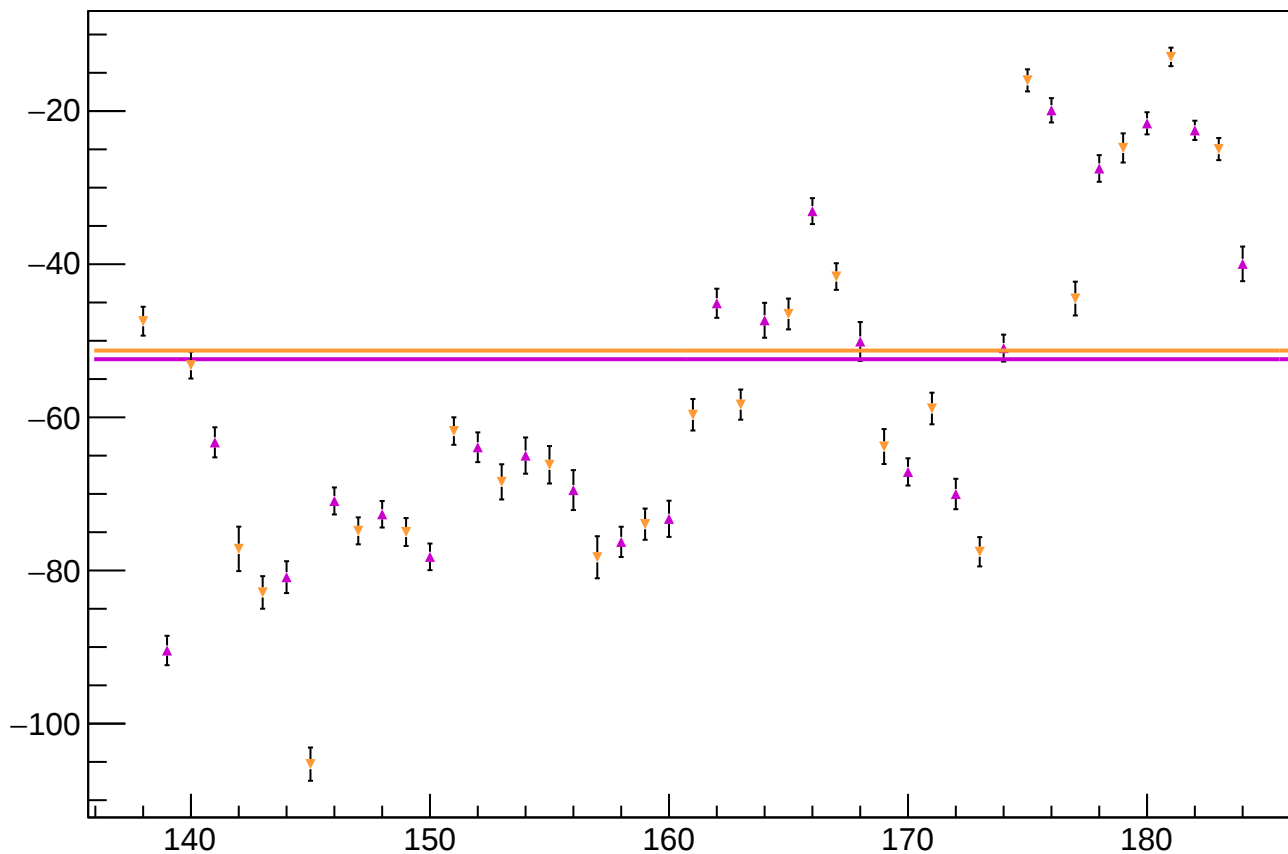
Left In:  $-39.813 \pm 0.016$   $\chi^2/\text{NDF}$ : 145790.5/22

+ sign  $-40.202 \pm 0.014$   $\chi^2/\text{NDF}$ : 206577.4/39

All:  $-40.203 \pm 0.010$   $\chi^2/\text{NDF}$ : 448546.4/79

- sign  $-40.203 \pm 0.014$   $\chi^2/\text{NDF}$ : 241969.0/39

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-51.275 \pm 0.386$   $\chi^2/\text{NDF}$ : 4059.7/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

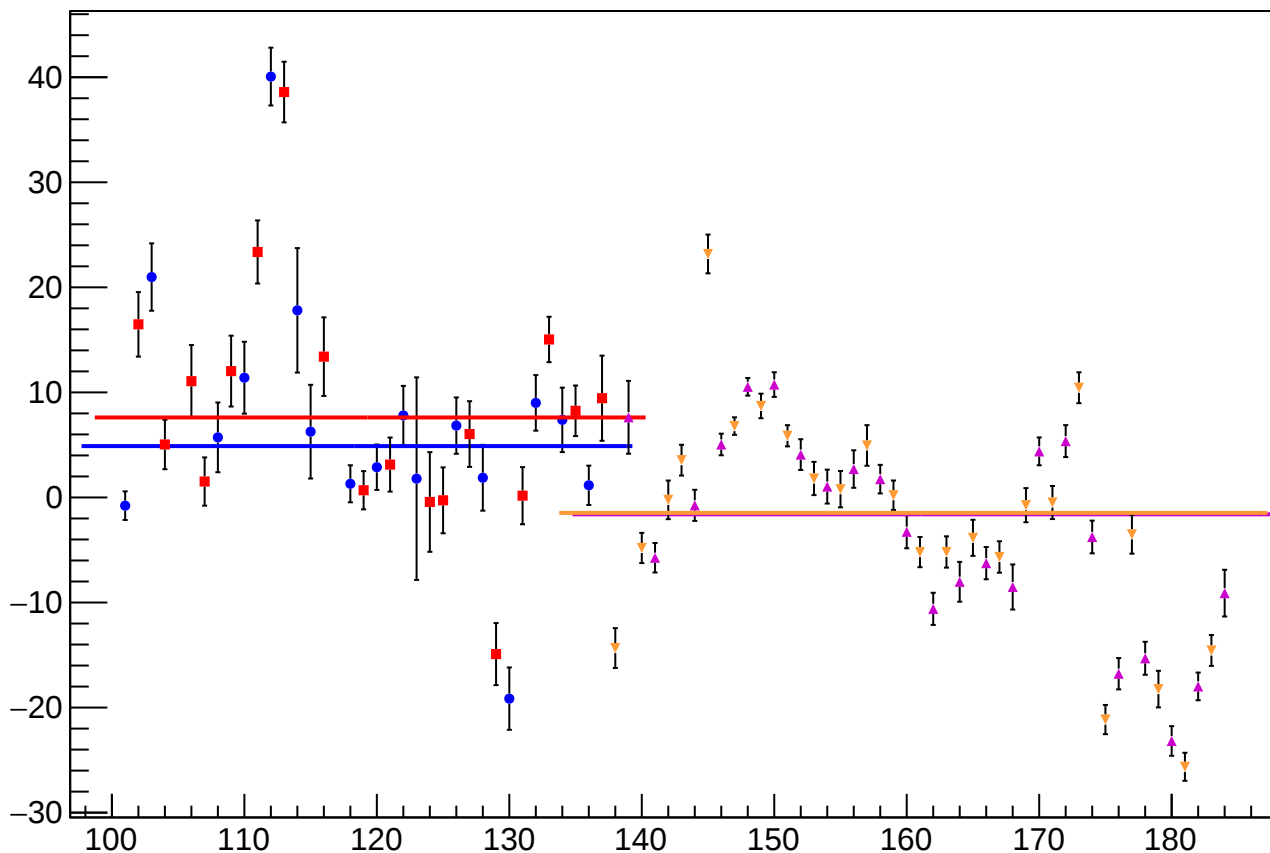
Left In:  $-52.409 \pm 0.387$   $\chi^2/\text{NDF}$ : 3378.7/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-51.840 \pm 0.273$   $\chi^2/\text{NDF}$ : 7442.7/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.888 \pm 0.622$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $-1.469 \pm 0.293$   $\chi^2/\text{NDF}$ : 1279.0/23

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

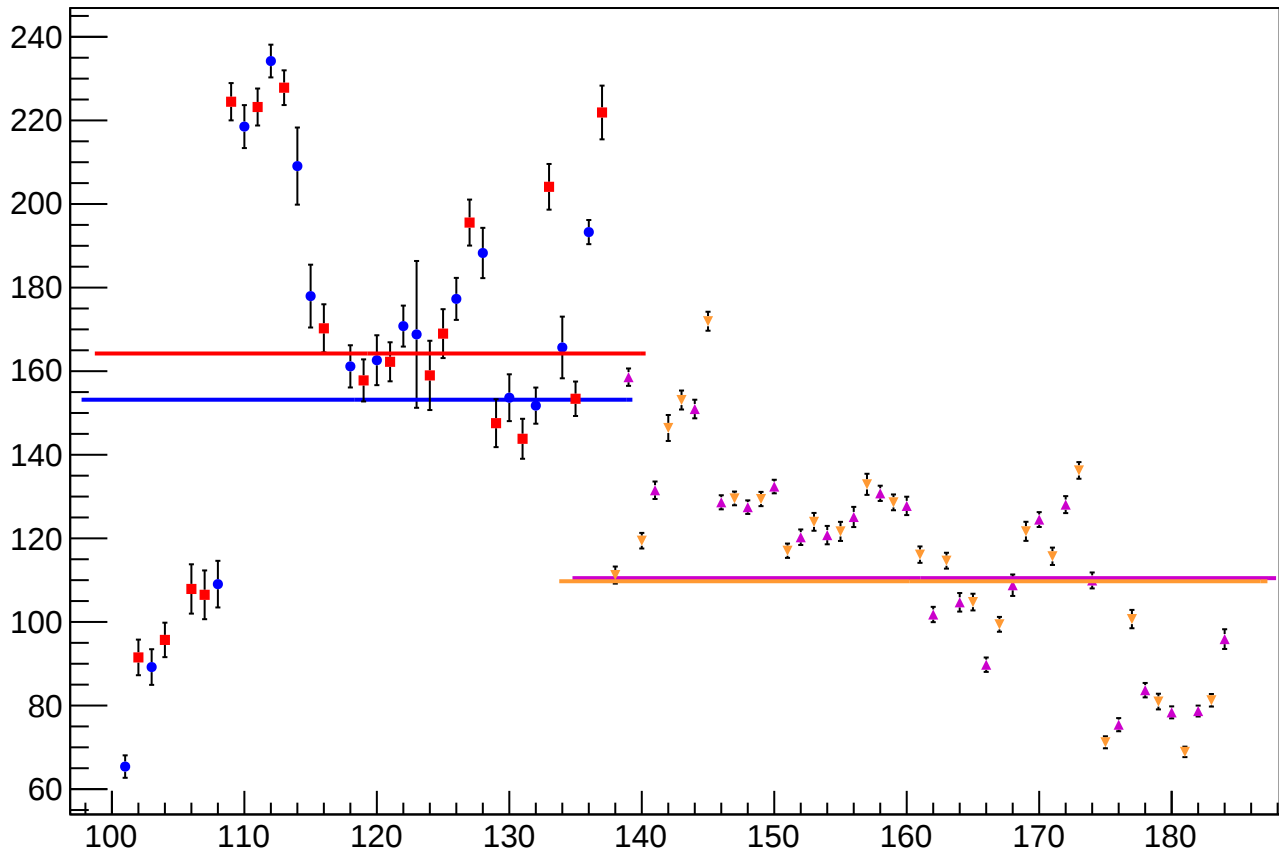
Left In:  $-1.608 \pm 0.299$   $\chi^2/\text{NDF}$ : 1097.4/22

+ sign  $-0.312 \pm 0.265$   $\chi^2/\text{NDF}$ : 1659.2/40

All:  $-0.161 \pm 0.190$   $\chi^2/\text{NDF}$ : 3191.5/81

- sign  $-0.002 \pm 0.272$   $\chi^2/\text{NDF}$ : 1531.7/40

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In:  $153.174 \pm 1.146$   $\chi^2/\text{NDF}: 2264.3/16$

Left Out:  $109.739 \pm 0.385$   $\chi^2/\text{NDF}: 4493.5/23$

Right Out:  $164.232 \pm 1.183$   $\chi^2/\text{NDF}: 1554.8/17$

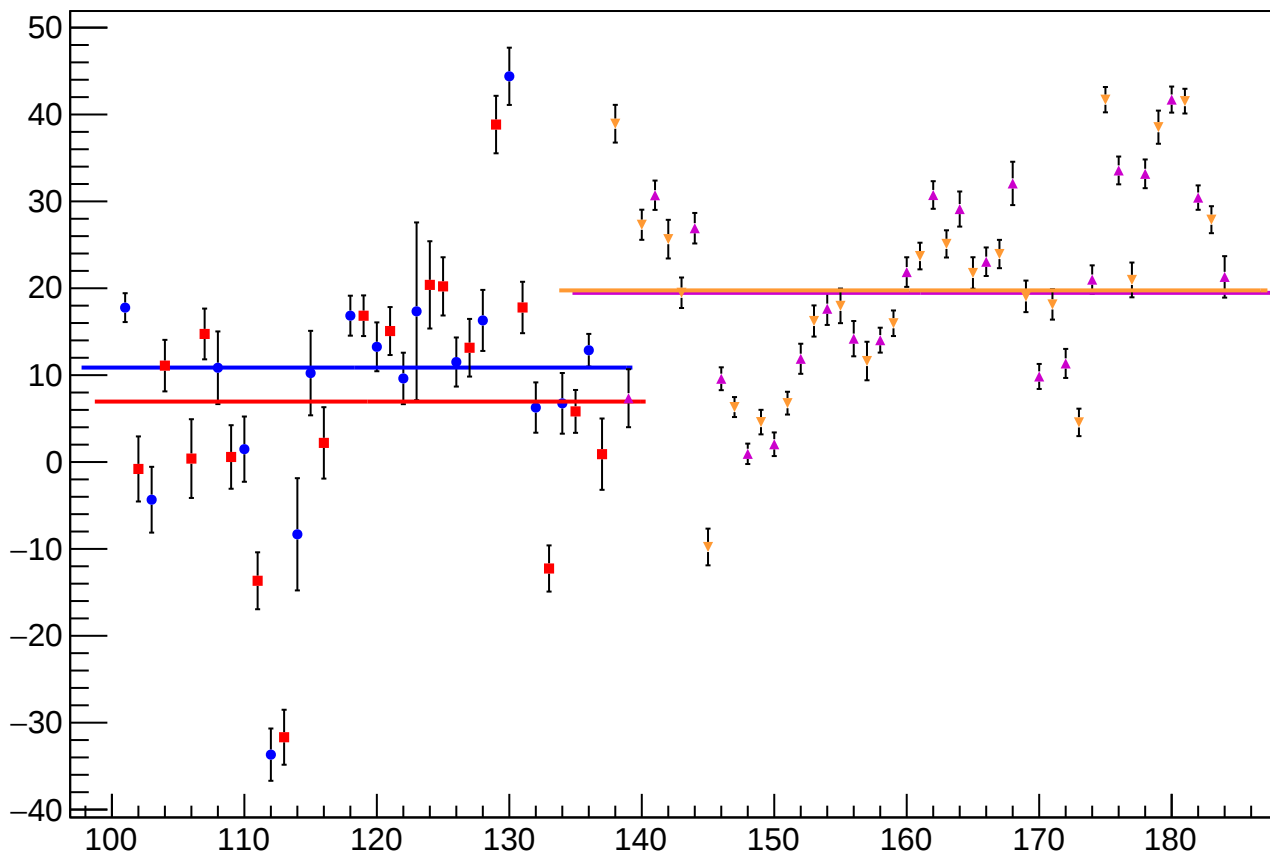
Left In:  $110.482 \pm 0.385$   $\chi^2/\text{NDF}: 3824.9/22$

+ sign  $114.137 \pm 0.365$   $\chi^2/\text{NDF}: 8048.0/40$

All:  $114.877 \pm 0.258$   $\chi^2/\text{NDF}: 15302.3/81$

- sign  $115.621 \pm 0.366$   $\chi^2/\text{NDF}: 7246.1/40$

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 10.872 $\pm$ 0.714  $\chi^2/\text{NDF}$ : 386.7/16

Left Out: 19.754 $\pm$ 0.337  $\chi^2/\text{NDF}$ :1379.3/23

Right Out: 6.958 $\pm$ 0.749  $\chi^2/\text{NDF}$ : 422.3/17

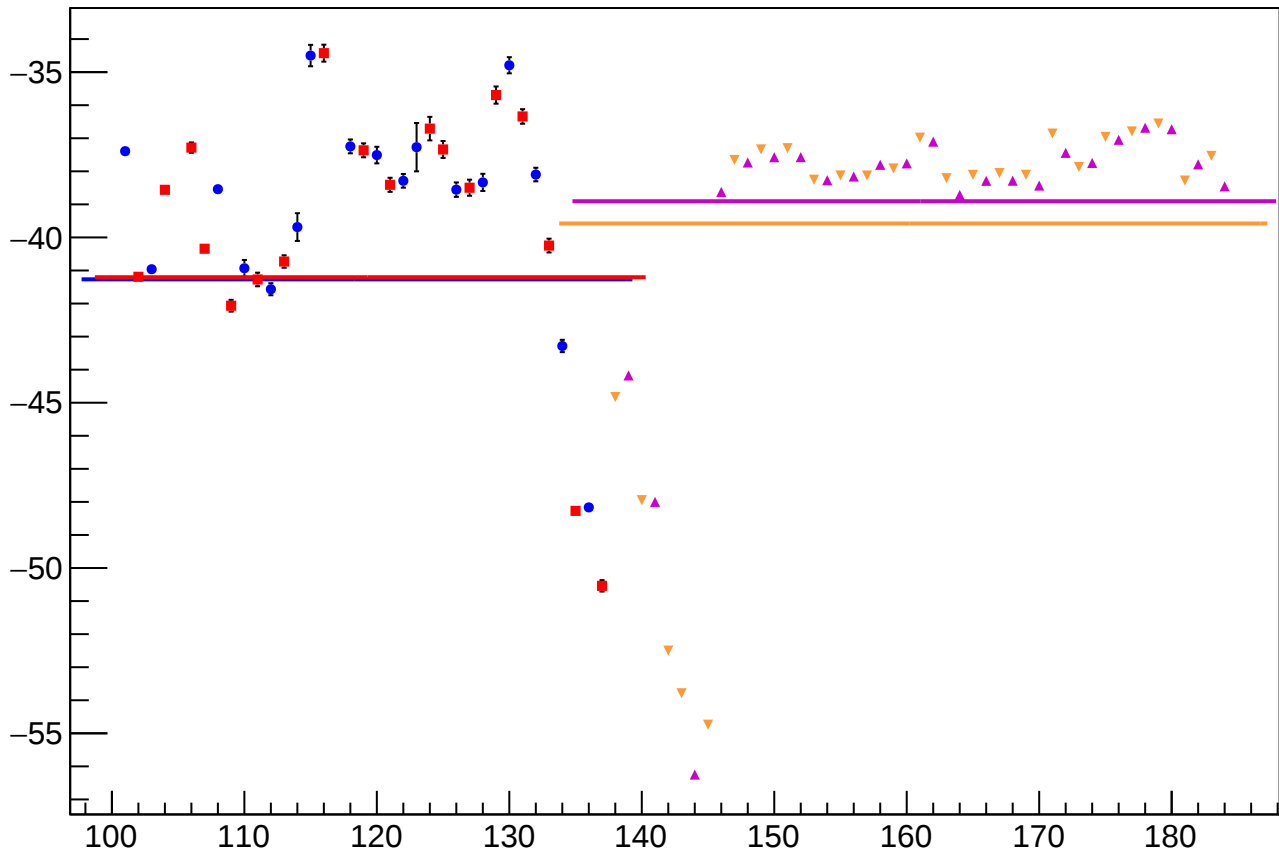
Left In: 19.472 $\pm$ 0.342  $\chi^2/\text{NDF}$ :1188.2/22

+ sign 18.139 $\pm$ 0.305  $\chi^2/\text{NDF}$ : 1892.5/40

All: 17.736 $\pm$ 0.218  $\chi^2/\text{NDF}$ : 3737.5/81

- sign 17.318 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 1841.5/40

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}: 12581.8/16$

Left Out:  $-39.577 \pm 0.016$   $\chi^2/\text{NDF}: 91761.9/23$

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}: 12008.6/17$

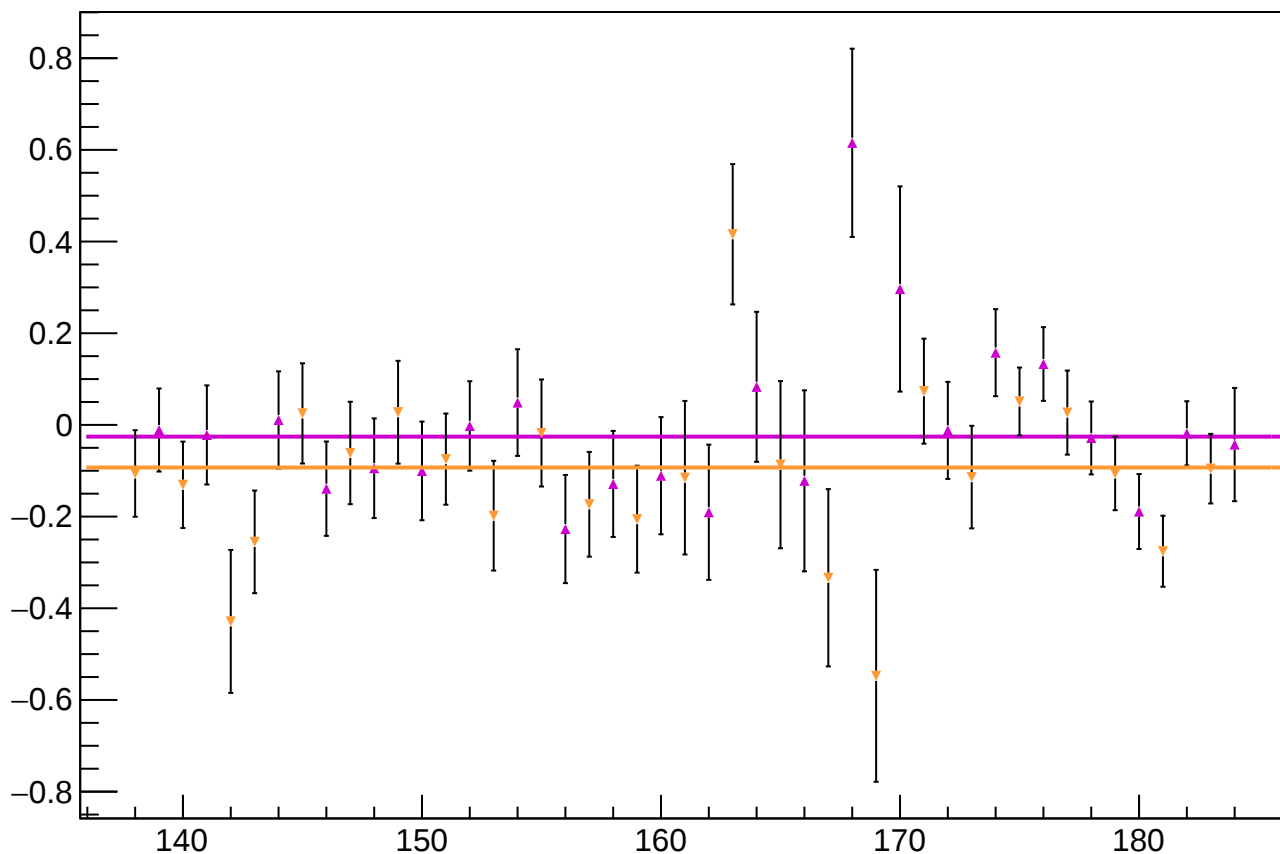
Left In:  $-38.905 \pm 0.016$   $\chi^2/\text{NDF}: 54282.7/22$

+ sign  $-39.823 \pm 0.015$   $\chi^2/\text{NDF}: 105987.7/40$

All:  $-39.526 \pm 0.010$   $\chi^2/\text{NDF}: 176099.5/81$

- sign  $-39.231 \pm 0.015$   $\chi^2/\text{NDF}: 69296.9/40$

# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.093 $\pm$ 0.022  $\chi^2$ /NDF: 41.7/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

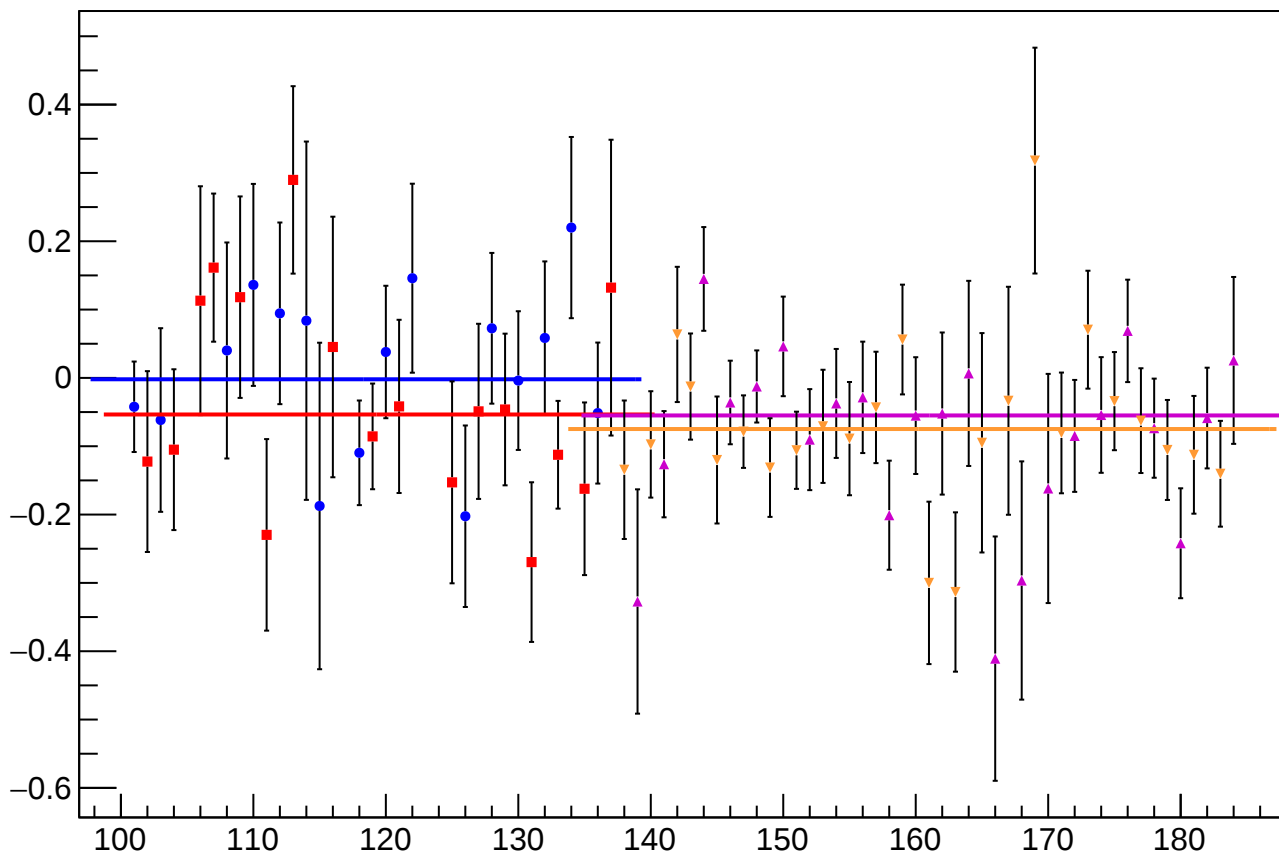
Left In: -0.026 $\pm$ 0.022  $\chi^2$ /NDF: 32.3/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.060 $\pm$ 0.016  $\chi^2$ /NDF: 78.6/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.002 \pm 0.028$   $\chi^2/\text{NDF}$ : 12.1/15

Left Out:  $-0.075 \pm 0.017$   $\chi^2/\text{NDF}$ : 24.8/23

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

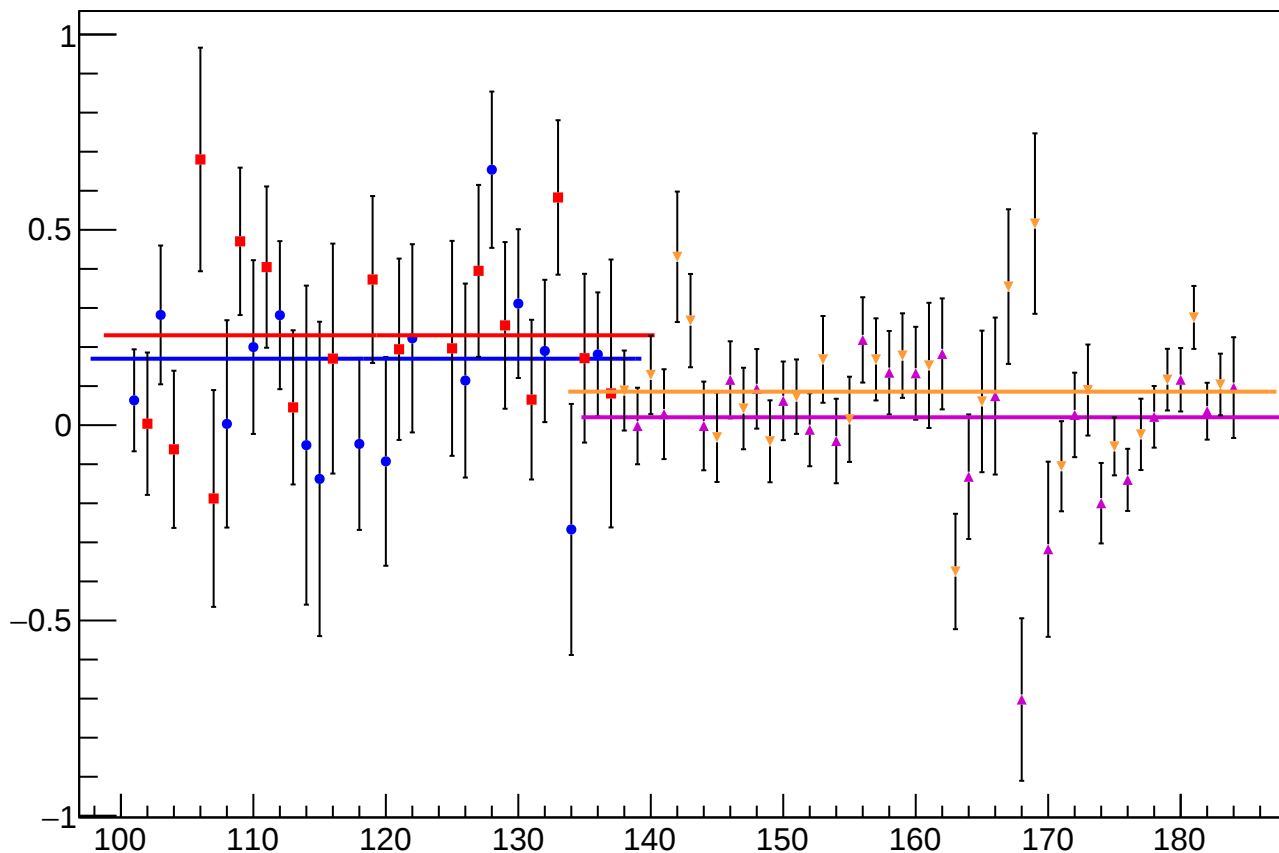
Left In:  $-0.055 \pm 0.018$   $\chi^2/\text{NDF}$ : 32.2/22

+ sign  $-0.056 \pm 0.015$   $\chi^2/\text{NDF}$ : 41.8/39

All:  $-0.055 \pm 0.010$   $\chi^2/\text{NDF}$ : 94.9/79

- sign  $-0.055 \pm 0.015$   $\chi^2/\text{NDF}$ : 53.1/39

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}: 13.0/15$

Left Out:  $0.086 \pm 0.022$   $\chi^2/\text{NDF}: 40.5/23$

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}: 16.8/16$

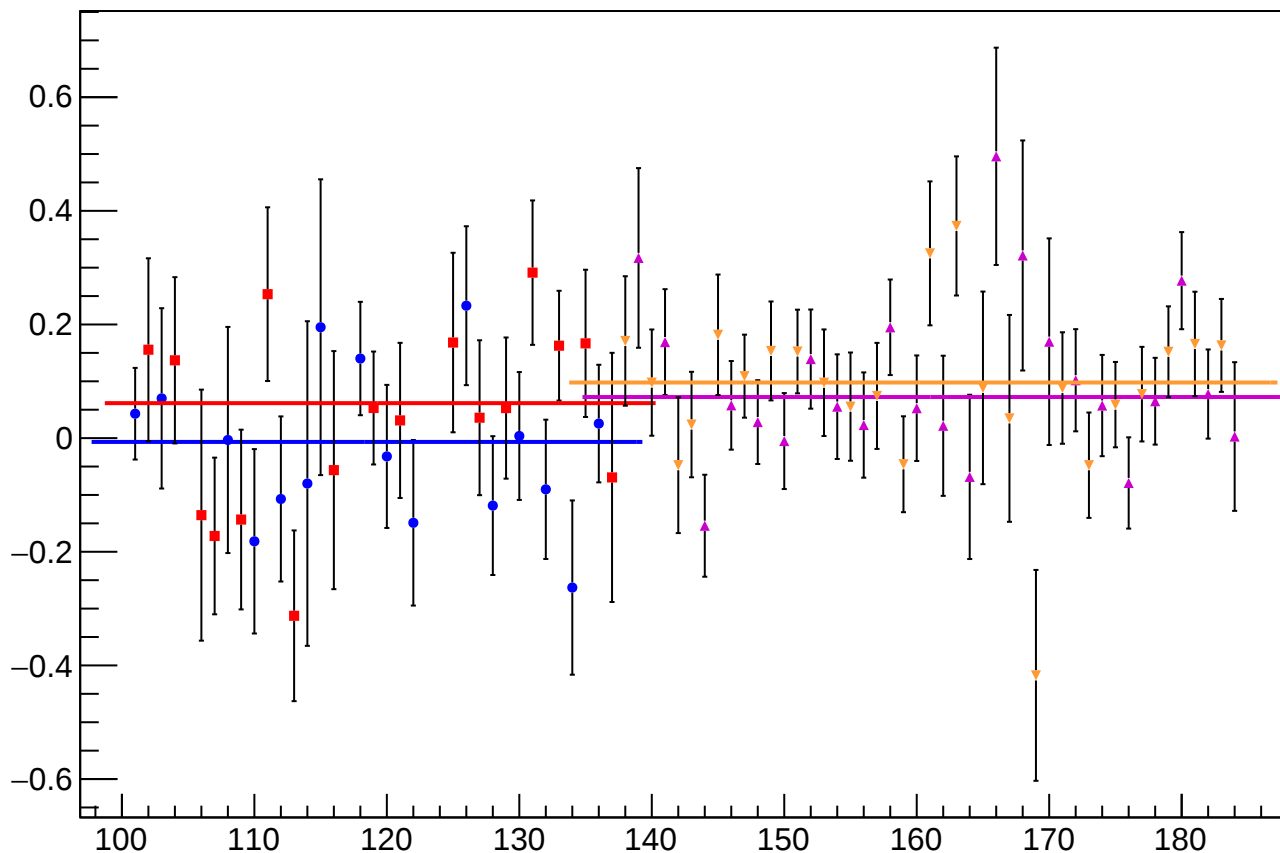
Left In:  $0.020 \pm 0.022$   $\chi^2/\text{NDF}: 34.5/22$

+ sign  $0.098 \pm 0.020$   $\chi^2/\text{NDF}: 55.8/39$

All:  $0.075 \pm 0.014$   $\chi^2/\text{NDF}: 122.9/79$

- sign  $0.050 \pm 0.020$   $\chi^2/\text{NDF}: 64.3/39$

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.098 \pm 0.019$   $\chi^2/\text{NDF}$ : 27.9/23

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

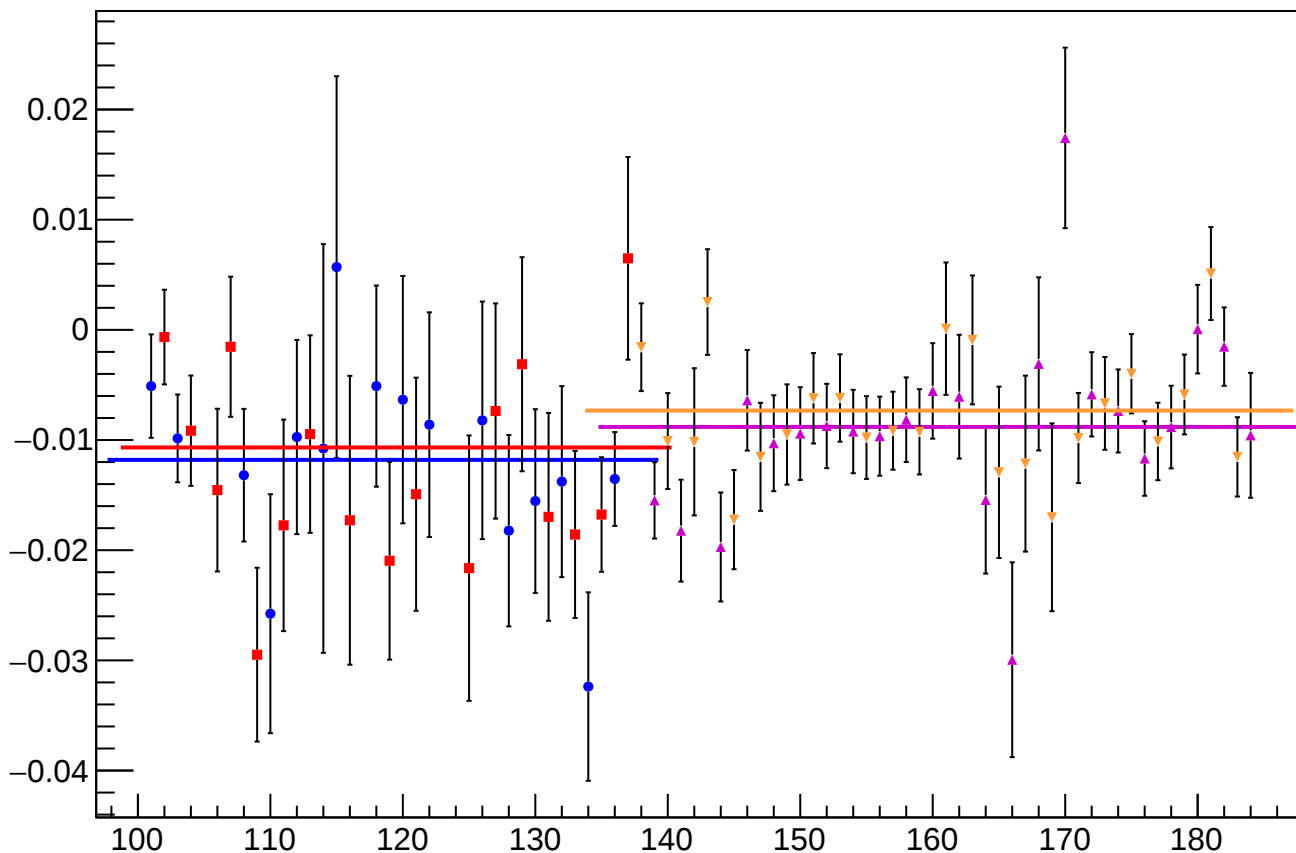
Left In:  $0.072 \pm 0.020$   $\chi^2/\text{NDF}$ : 31.7/22

+ sign  $0.070 \pm 0.017$   $\chi^2/\text{NDF}$ : 48.7/39

All:  $0.070 \pm 0.012$   $\chi^2/\text{NDF}$ : 100.4/79

- sign  $0.070 \pm 0.017$   $\chi^2/\text{NDF}$ : 51.8/39

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.007 \pm 0.001$   $\chi^2/\text{NDF}$ : 30.8/23

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

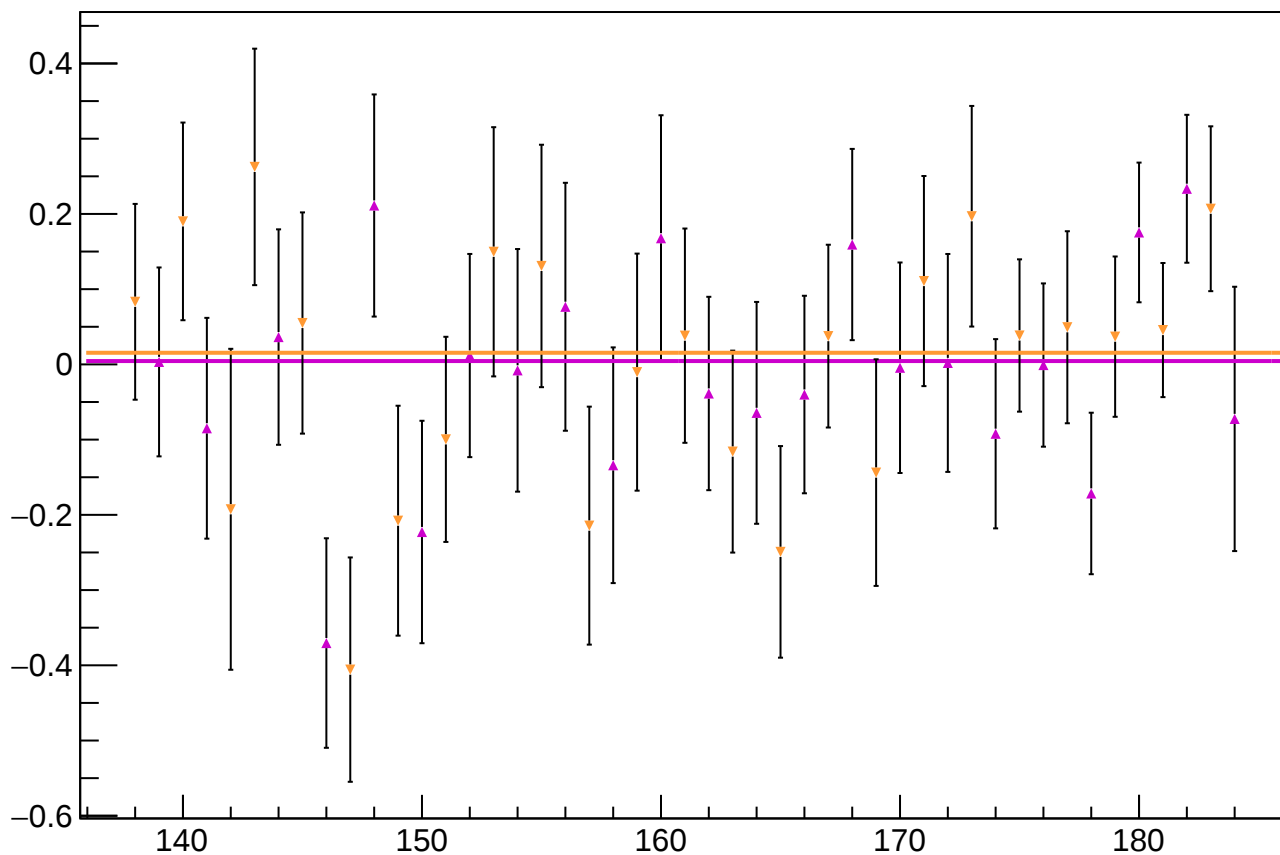
Left In:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 42.1/22

+ sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 48.6/39

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 116.0/79

- sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 66.7/39

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.015 $\pm$ 0.027  $\chi^2$ /NDF:30.7/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

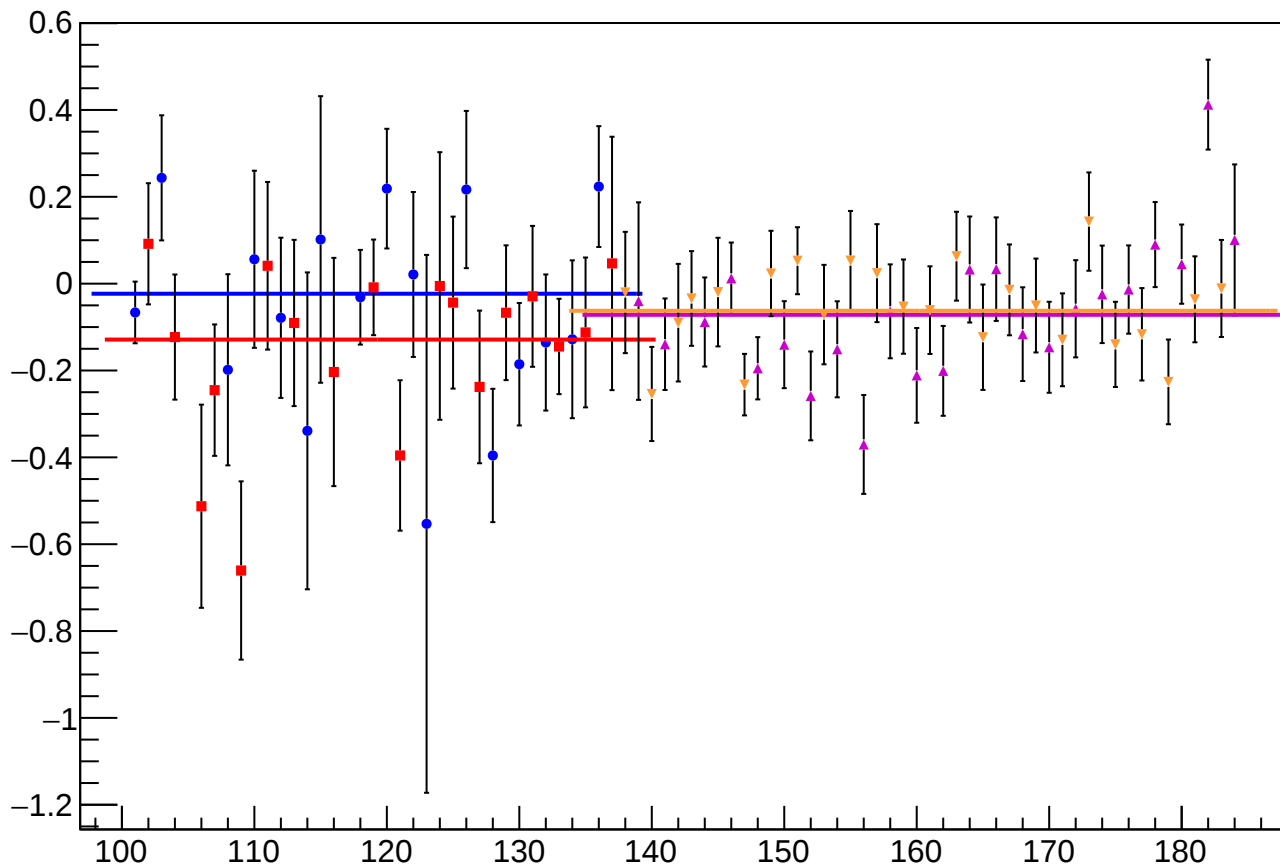
Left In: 0.004 $\pm$ 0.028  $\chi^2$ /NDF:28.2/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.019  $\chi^2$ /NDF: 58.9/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.023 \pm 0.037$   $\chi^2/\text{NDF}$ : 22.4/16

Left Out:  $-0.062 \pm 0.021$   $\chi^2/\text{NDF}$ : 23.5/23

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}$ : 18.6/17

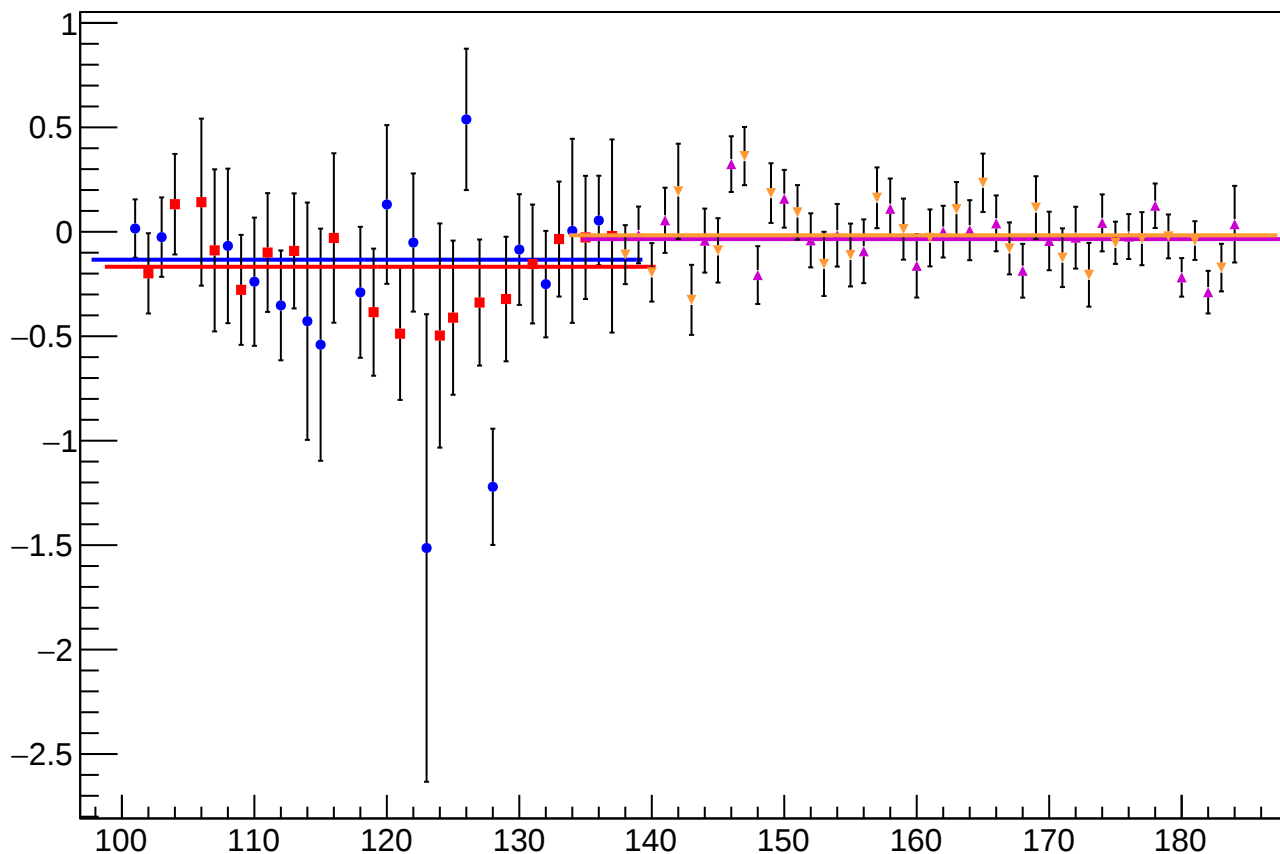
Left In:  $-0.072 \pm 0.022$   $\chi^2/\text{NDF}$ : 48.7/22

+ sign  $-0.053 \pm 0.018$   $\chi^2/\text{NDF}$ : 46.7/40

All:  $-0.068 \pm 0.013$   $\chi^2/\text{NDF}$ : 117.2/81

- sign  $-0.085 \pm 0.019$   $\chi^2/\text{NDF}$ : 69.0/40

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $-0.017 \pm 0.027$   $\chi^2/\text{NDF}$ : 28.8/23

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

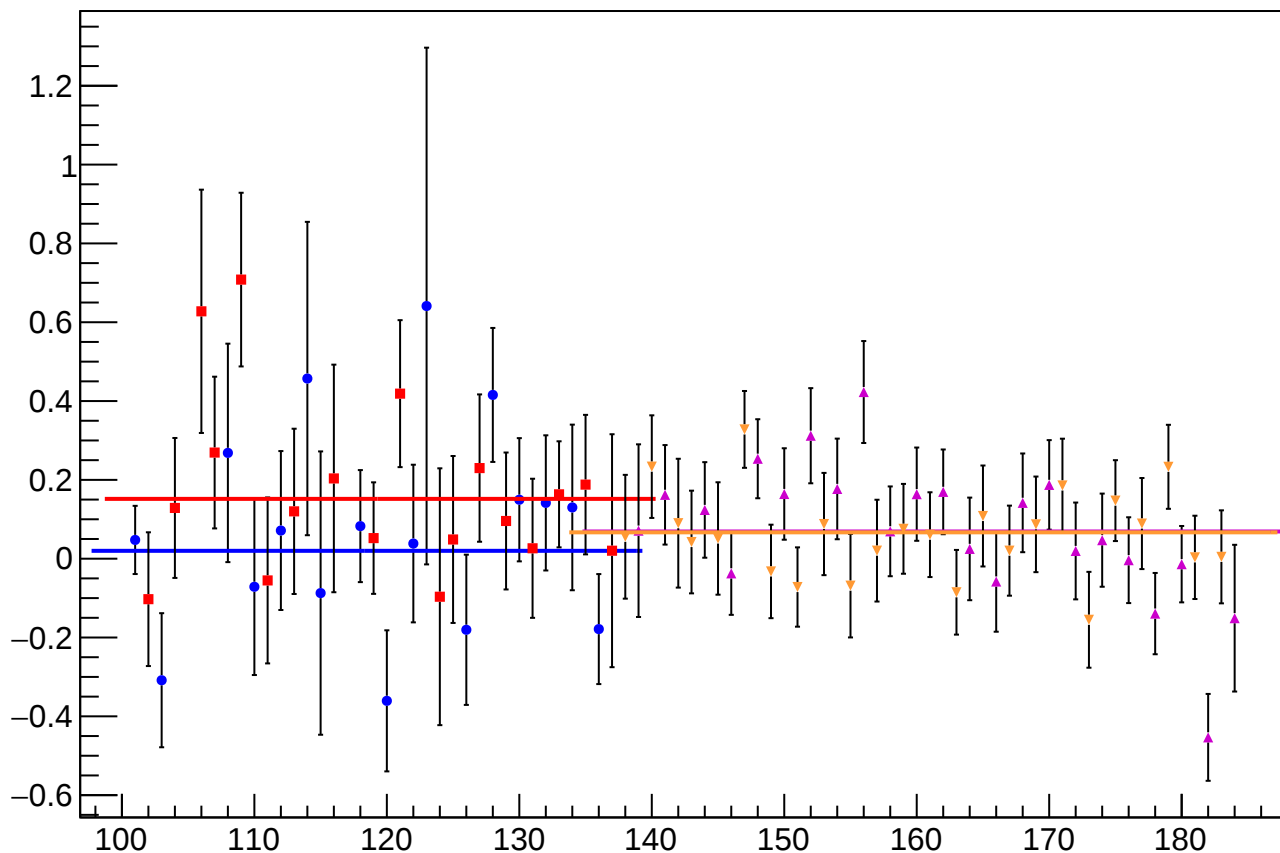
Left In:  $-0.035 \pm 0.027$   $\chi^2/\text{NDF}$ : 27.7/22

+ sign  $-0.033 \pm 0.025$   $\chi^2/\text{NDF}$ : 57.1/40

All:  $-0.042 \pm 0.018$   $\chi^2/\text{NDF}$ : 94.3/81

- sign  $-0.052 \pm 0.026$   $\chi^2/\text{NDF}$ : 36.9/40

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In: 0.020 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: 0.067 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 23.1/23

Right Out: 0.152 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 16.8/17

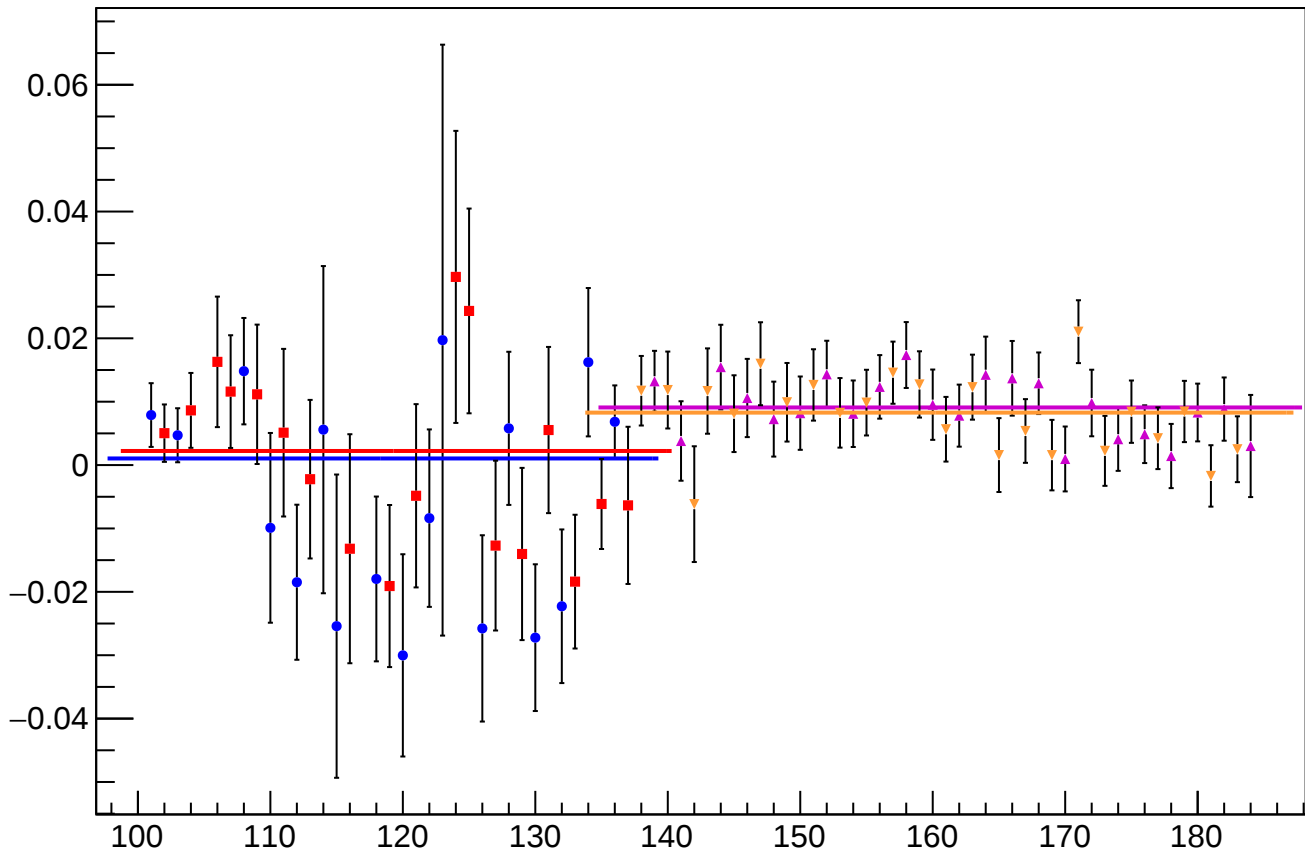
Left In: 0.069 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 51.4/22

+ sign 0.055 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 45.8/40

All: 0.071 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 117.8/81

- sign 0.088 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 70.8/40

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In:  $0.001 \pm 0.002$   $\chi^2/\text{NDF}$ : 32.0/16

Left Out:  $0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 26.0/23

Right Out:  $0.002 \pm 0.002$   $\chi^2/\text{NDF}$ : 20.8/17

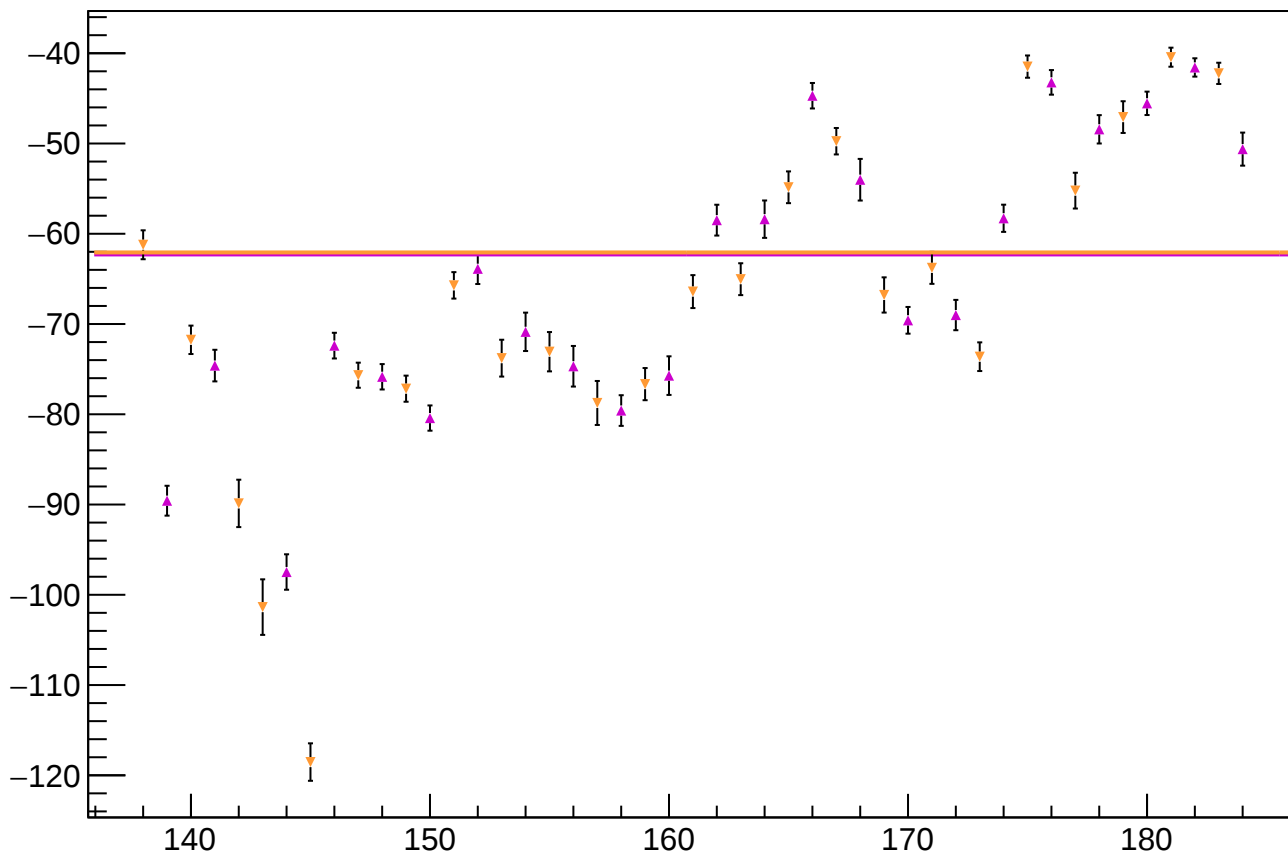
Left In:  $0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 15.8/22

+ sign  $0.007 \pm 0.001$   $\chi^2/\text{NDF}$ : 66.5/40

All:  $0.007 \pm 0.001$   $\chi^2/\text{NDF}$ : 110.9/81

- sign  $0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 44.0/40

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -62.070 +/- 0.335  $\chi^2/\text{NDF}$ : 2660.1/23

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

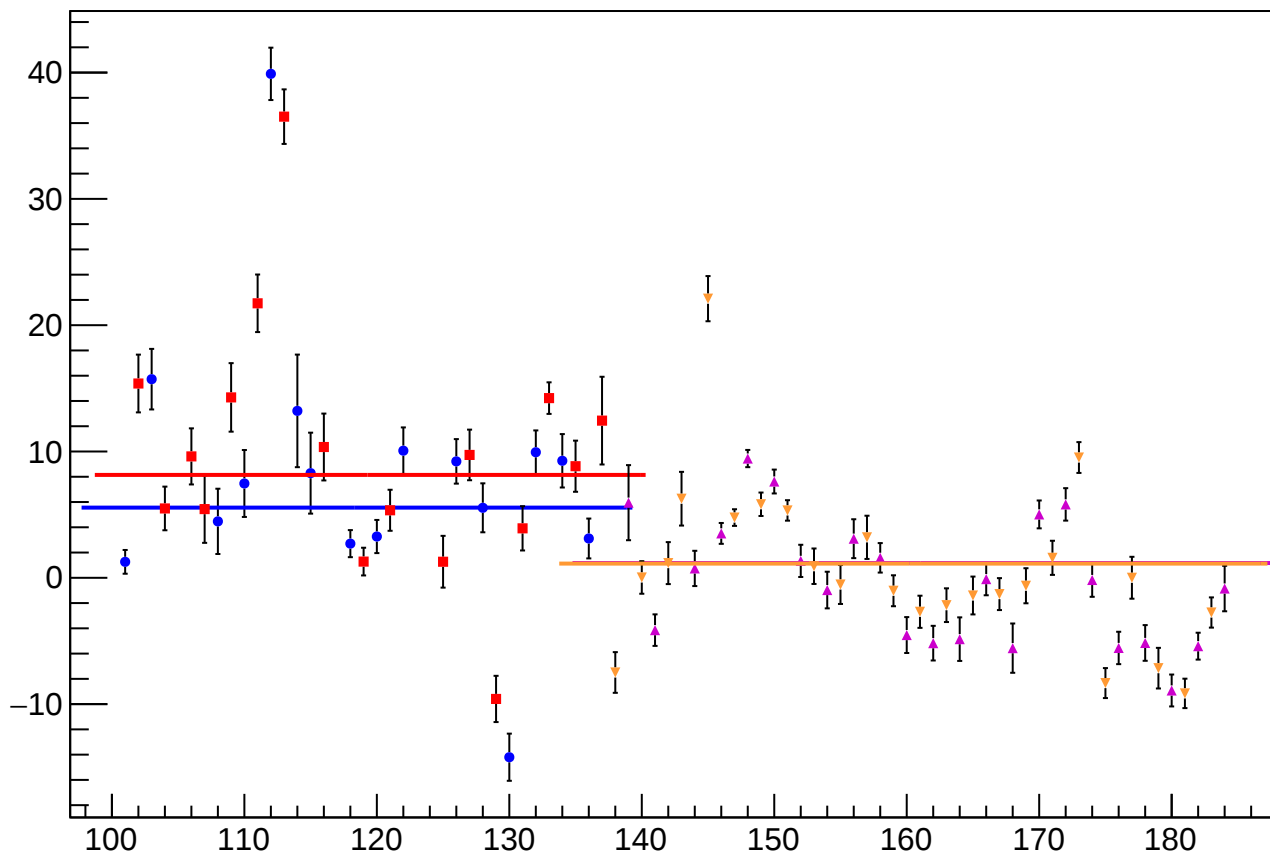
Left In: -62.290 +/- 0.331  $\chi^2/\text{NDF}$ : 2265.0/22

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -62.181 +/- 0.235  $\chi^2/\text{NDF}$ : 4925.3/46

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $5.557 \pm 0.424$   $\chi^2/\text{NDF}$ : 462.0/15

Left Out:  $1.125 \pm 0.252$   $\chi^2/\text{NDF}$ : 511.1/23

Right Out:  $8.146 \pm 0.454$   $\chi^2/\text{NDF}$ : 406.8/16

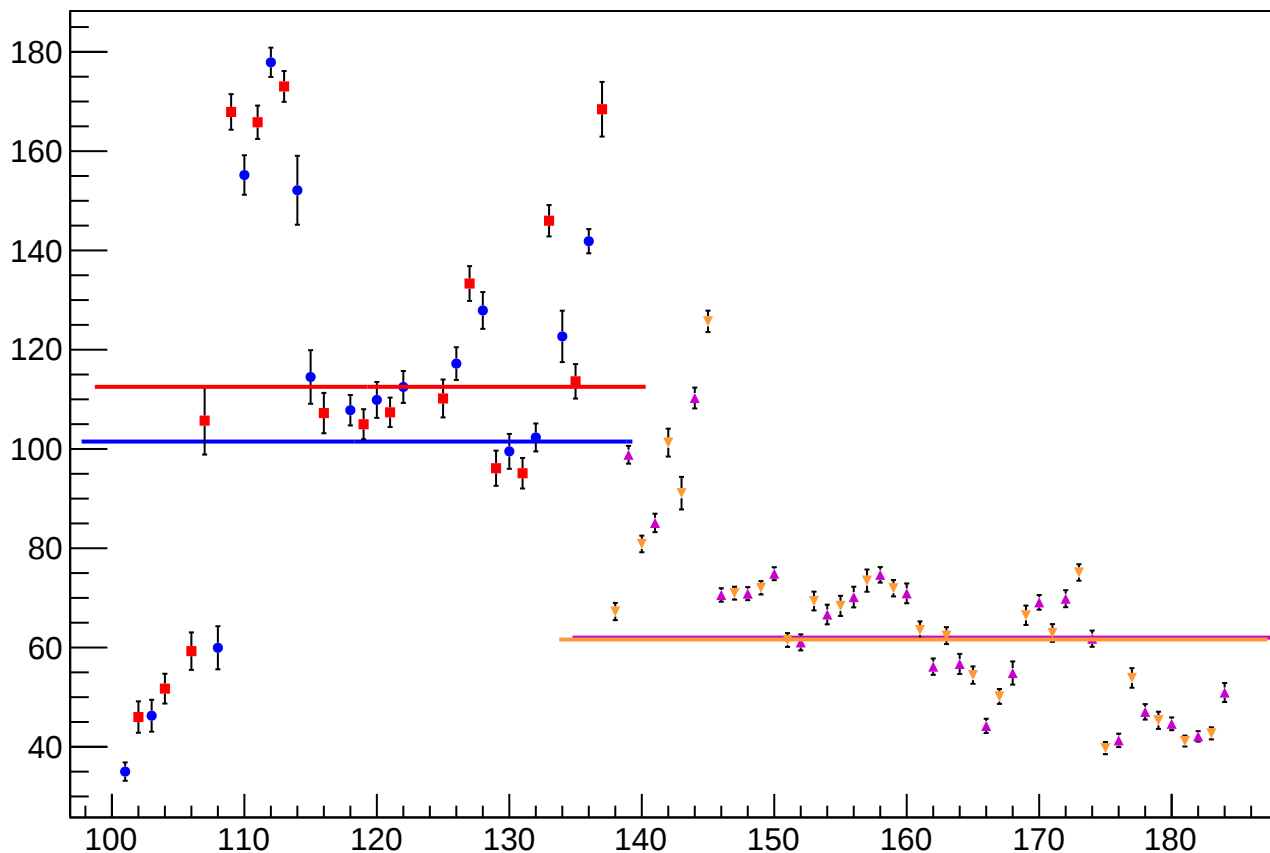
Left In:  $1.171 \pm 0.255$   $\chi^2/\text{NDF}$ : 466.2/22

+ sign  $2.285 \pm 0.217$   $\chi^2/\text{NDF}$ : 1053.8/39

All:  $2.555 \pm 0.155$   $\chi^2/\text{NDF}$ : 2109.3/79

- sign  $2.839 \pm 0.222$   $\chi^2/\text{NDF}$ : 1052.3/39

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.496 $\pm$ 0.808  $\chi^2/\text{NDF}$ : 2973.0/15

Left Out: 61.617 $\pm$ 0.333  $\chi^2/\text{NDF}$ : 2670.3/23

Right Out: 112.521 $\pm$ 0.843  $\chi^2/\text{NDF}$ : 2236.9/16

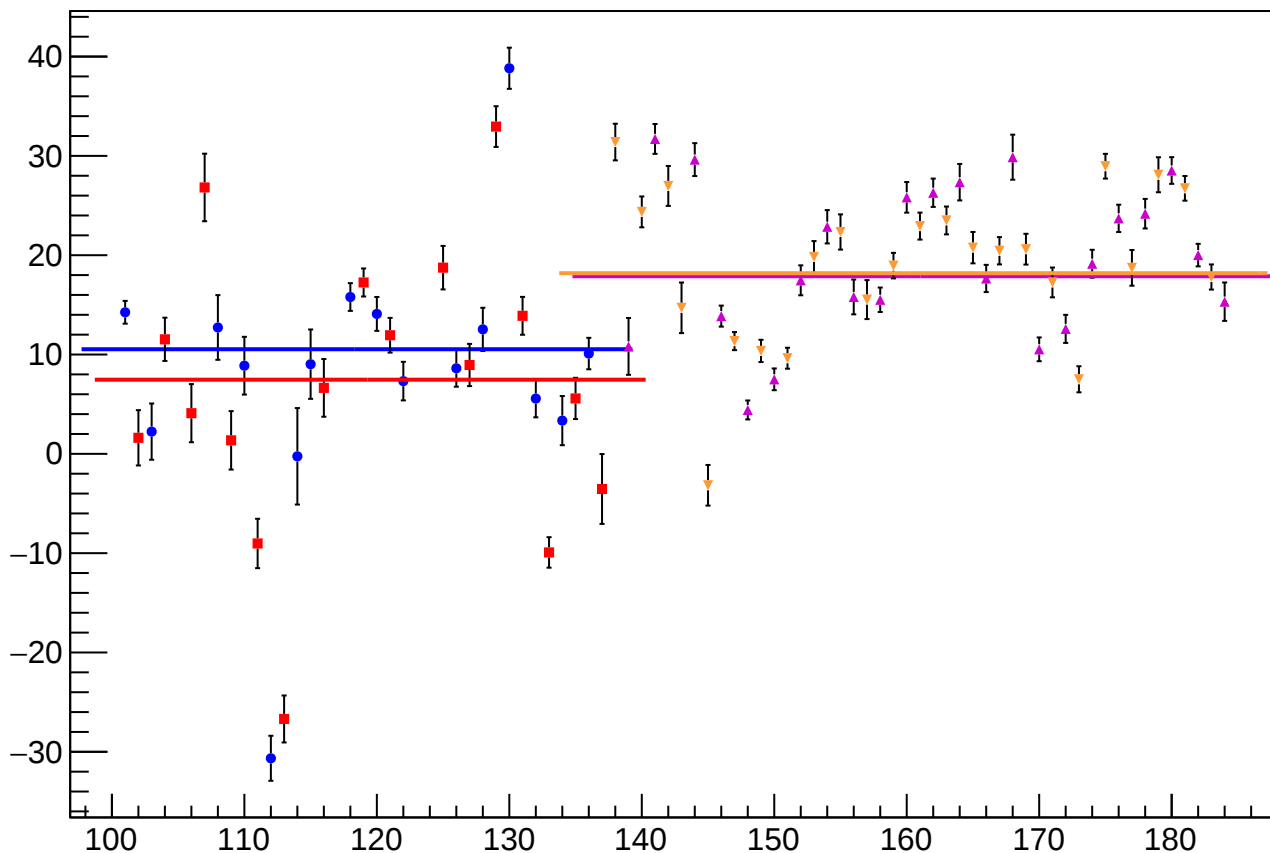
Left In: 61.995 $\pm$ 0.329  $\chi^2/\text{NDF}$ : 2517.6/22

+ sign 67.414 $\pm$ 0.308  $\chi^2/\text{NDF}$ : 7723.7/39

All: 68.045 $\pm$ 0.217  $\chi^2/\text{NDF}$ : 15602.9/79

- sign 68.668 $\pm$ 0.306  $\chi^2/\text{NDF}$ : 7870.9/39

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 10.532 $\pm$ 0.493  $\chi^2/\text{NDF}$ : 580.3/15

Left Out: 18.188 $\pm$ 0.291  $\chi^2/\text{NDF}$ : 631.5/23

Right Out: 7.466 $\pm$ 0.525  $\chi^2/\text{NDF}$ : 685.0/16

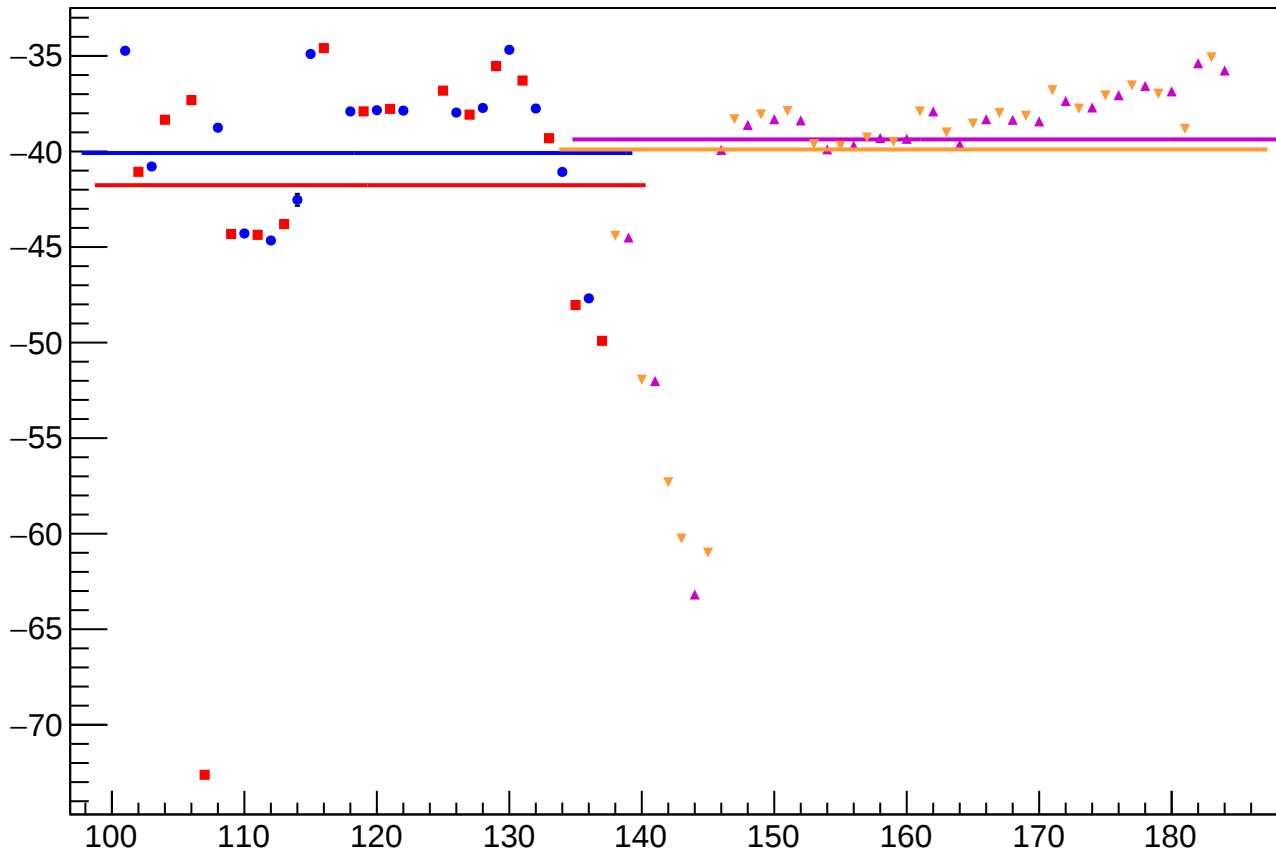
Left In: 17.881 $\pm$ 0.292  $\chi^2/\text{NDF}$ : 730.9/22

+ sign 16.208 $\pm$ 0.251  $\chi^2/\text{NDF}$ : 1390.7/39

All: 15.823 $\pm$ 0.179  $\chi^2/\text{NDF}$ : 3112.0/79

- sign 15.426 $\pm$ 0.255  $\chi^2/\text{NDF}$ : 1716.6/39

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-40.079 \pm 0.028$   $\chi^2/\text{NDF}$ : 25147.0/15

Left Out:  $-39.893 \pm 0.014$   $\chi^2/\text{NDF}$ : 162897.7/23

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}$ : 60249.3/16

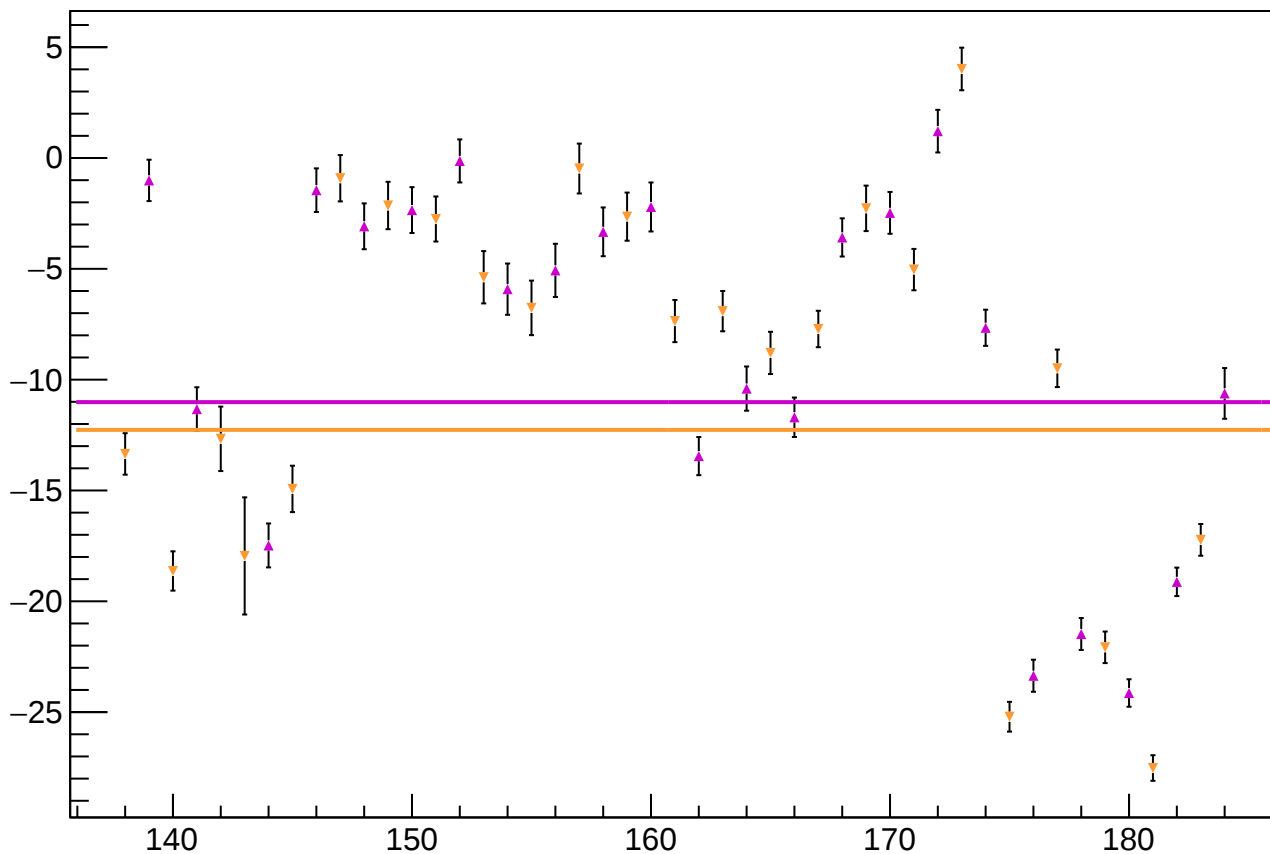
Left In:  $-39.368 \pm 0.014$   $\chi^2/\text{NDF}$ : 117958.1/22

+ sign  $-39.929 \pm 0.012$   $\chi^2/\text{NDF}$ : 188079.7/39

All:  $-39.864 \pm 0.009$   $\chi^2/\text{NDF}$ : 371990.7/79

- sign  $-39.801 \pm 0.012$   $\chi^2/\text{NDF}$ : 183857.2/39

# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.267+/-0.188  $\chi^2/\text{NDF}$ : 2468.5/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

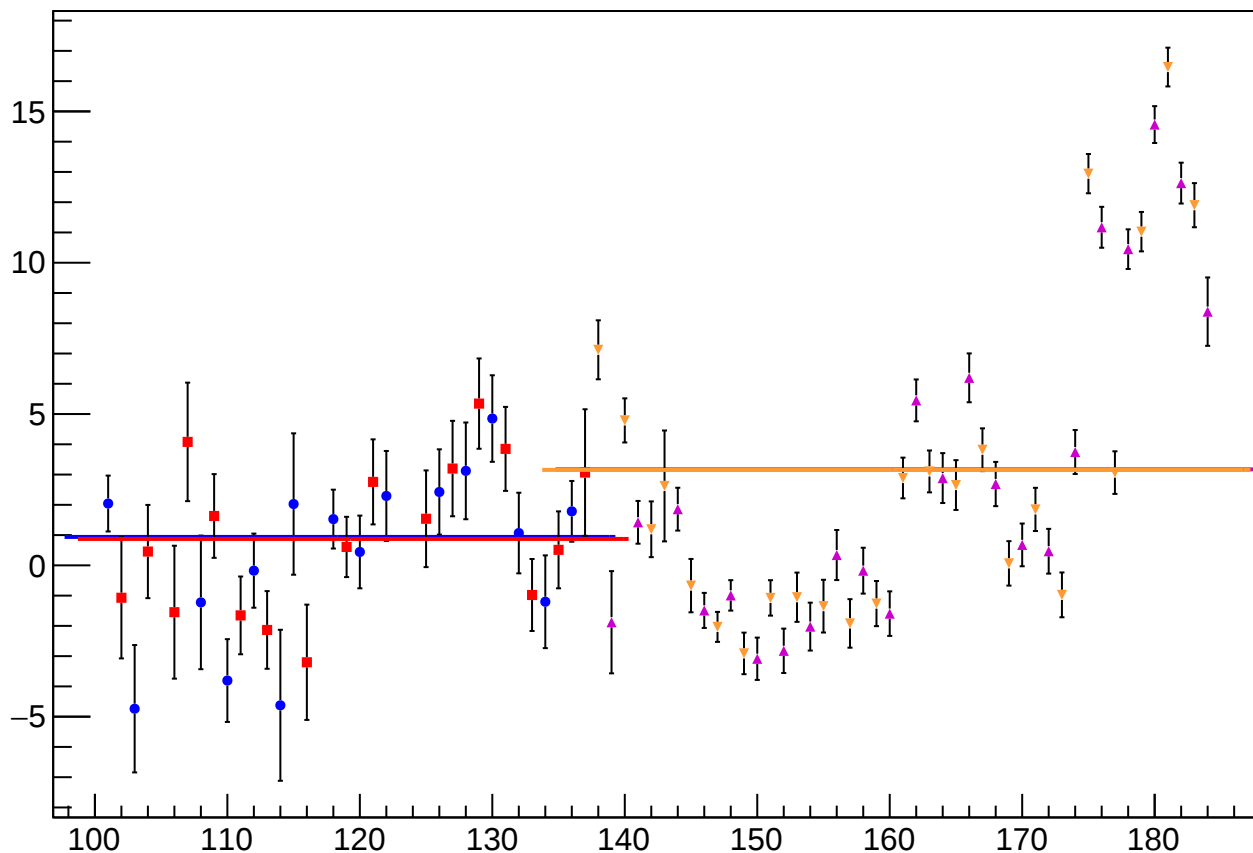
Left In: -11.014+/-0.187  $\chi^2/\text{NDF}$ : 2116.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.638+/-0.133  $\chi^2/\text{NDF}$ : 4607.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.939 \pm 0.339$   $\chi^2/\text{NDF}$ : 42.2/15

Left Out:  $3.154 \pm 0.148$   $\chi^2/\text{NDF}$ : 1416.1/23

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}$ : 40.6/16

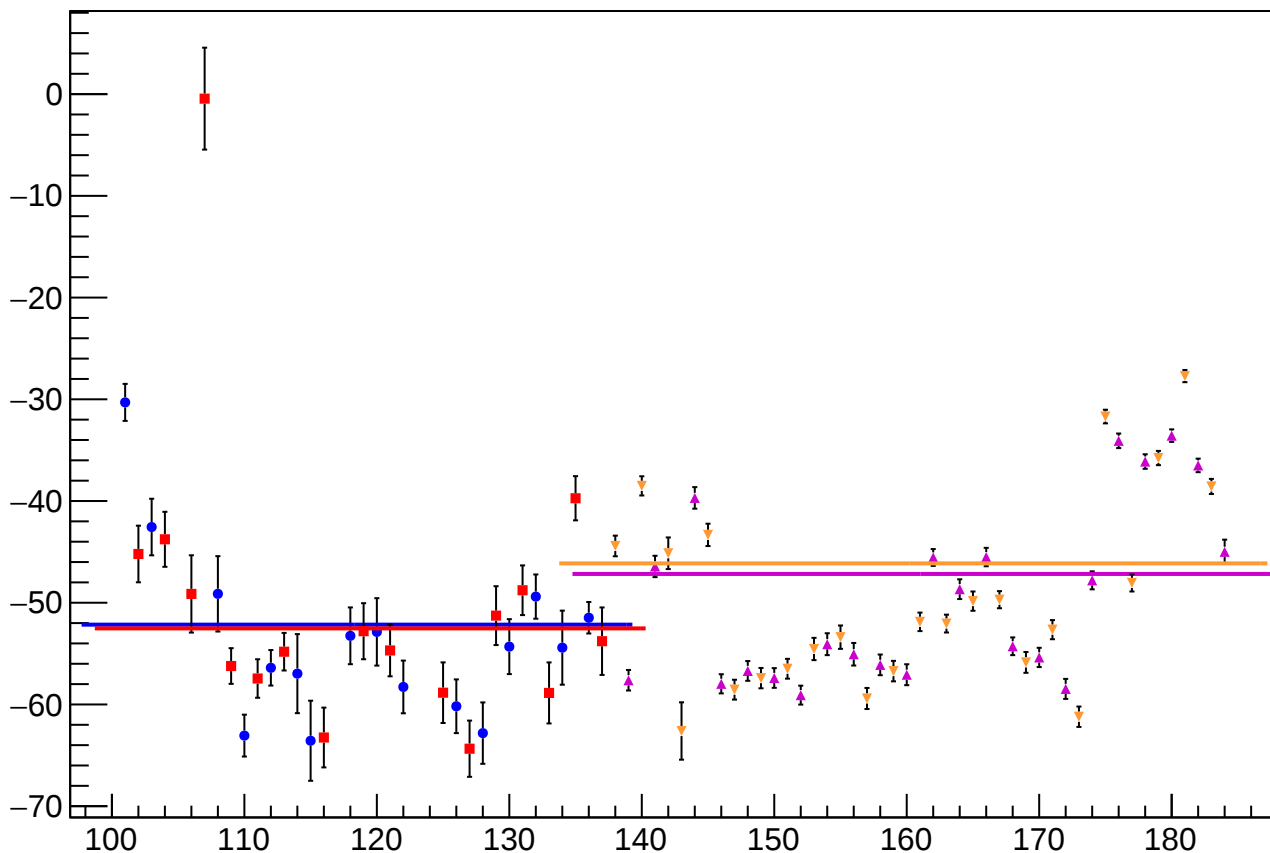
Left In:  $3.172 \pm 0.150$   $\chi^2/\text{NDF}$ : 1297.9/22

+ sign  $2.798 \pm 0.136$   $\chi^2/\text{NDF}$ : 1494.2/39

All:  $2.811 \pm 0.097$   $\chi^2/\text{NDF}$ : 2868.5/79

- sign  $2.824 \pm 0.138$   $\chi^2/\text{NDF}$ : 1374.3/39

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-52.154 \pm 0.613$   $\chi^2/\text{NDF}$ : 231.1/15

Left Out:  $-46.131 \pm 0.187$   $\chi^2/\text{NDF}$ : 3100.9/23

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

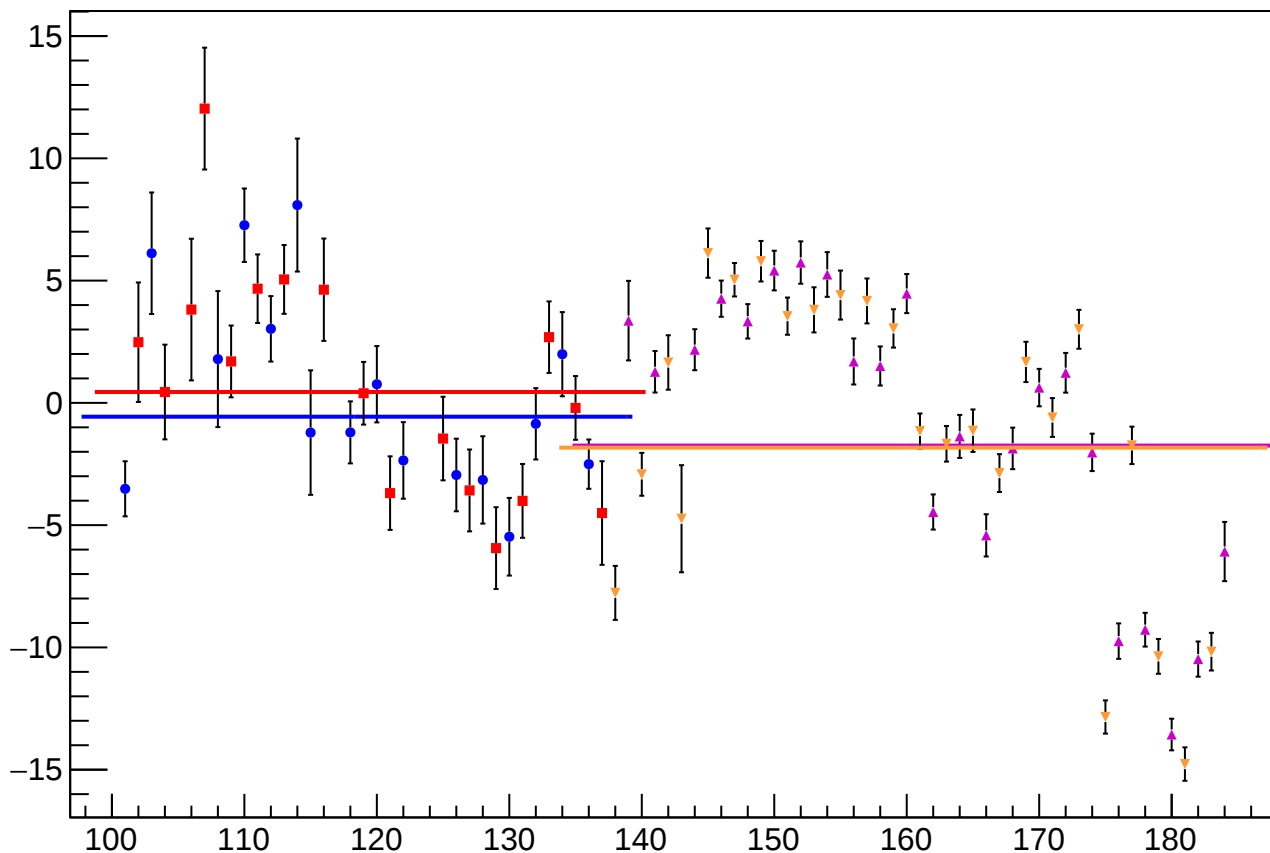
Left In:  $-47.170 \pm 0.186$   $\chi^2/\text{NDF}$ : 2526.3/22

+ sign  $-46.646 \pm 0.179$   $\chi^2/\text{NDF}$ : 3420.2/39

All:  $-47.133 \pm 0.127$   $\chi^2/\text{NDF}$ : 6247.7/79

- sign  $-47.617 \pm 0.179$   $\chi^2/\text{NDF}$ : 2812.8/39

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -0.565±0.384  $\chi^2/\text{NDF}$ : 81.8/15

Left Out: -1.830±0.168  $\chi^2/\text{NDF}$ : 1439.9/23

Right Out: 0.445±0.400  $\chi^2/\text{NDF}$ : 94.1/16

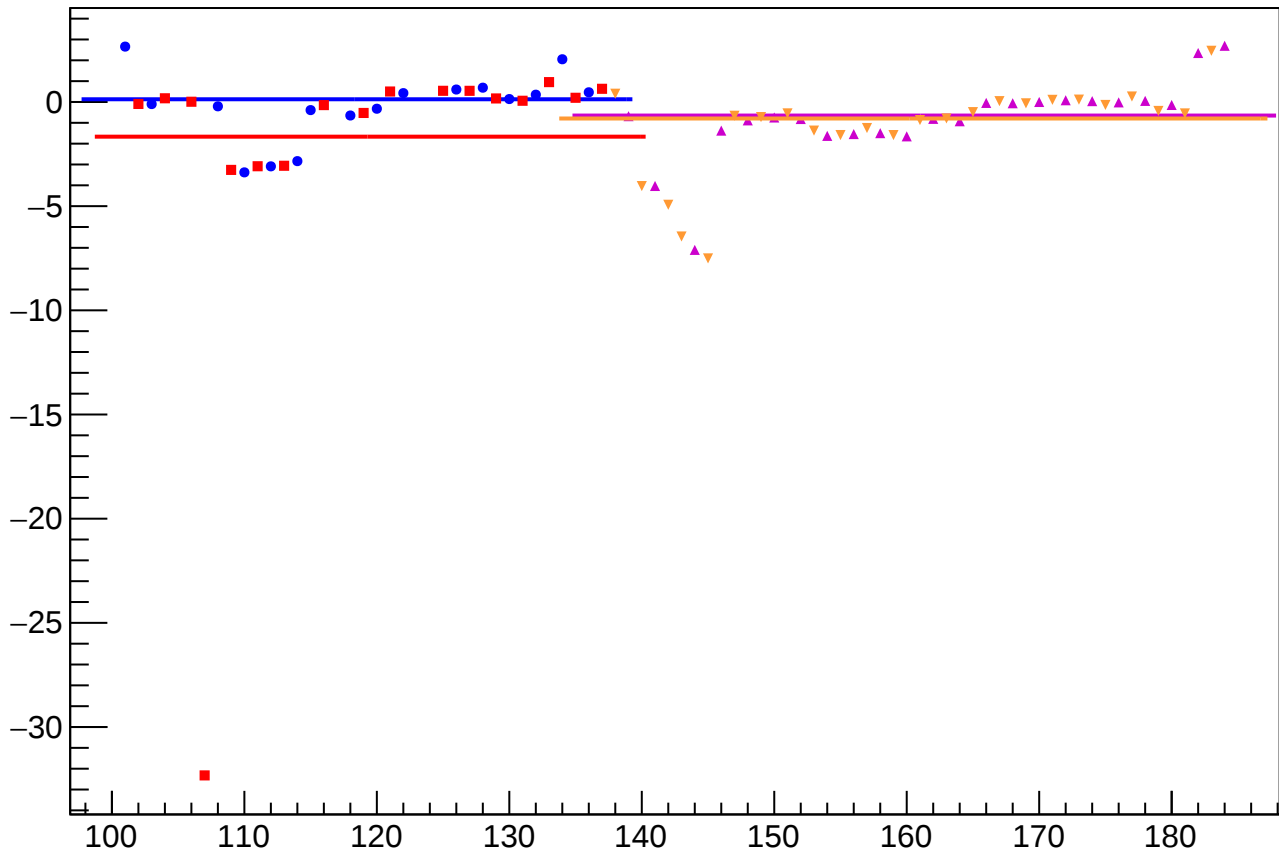
Left In: -1.746±0.168  $\chi^2/\text{NDF}$ : 1254.1/22

+ sign -1.628±0.154  $\chi^2/\text{NDF}$ : 1530.8/39

All: -1.523±0.109  $\chi^2/\text{NDF}$ : 2905.4/79

- sign -1.416±0.155  $\chi^2/\text{NDF}$ : 1373.7/39

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.130 $\pm$ 0.022  $\chi^2$ /NDF: 5232.9/15

Left Out: -0.793 $\pm$ 0.008  $\chi^2$ /NDF: 52752.3/23

Right Out: -1.665 $\pm$ 0.022  $\chi^2$ /NDF: 77602.8/16

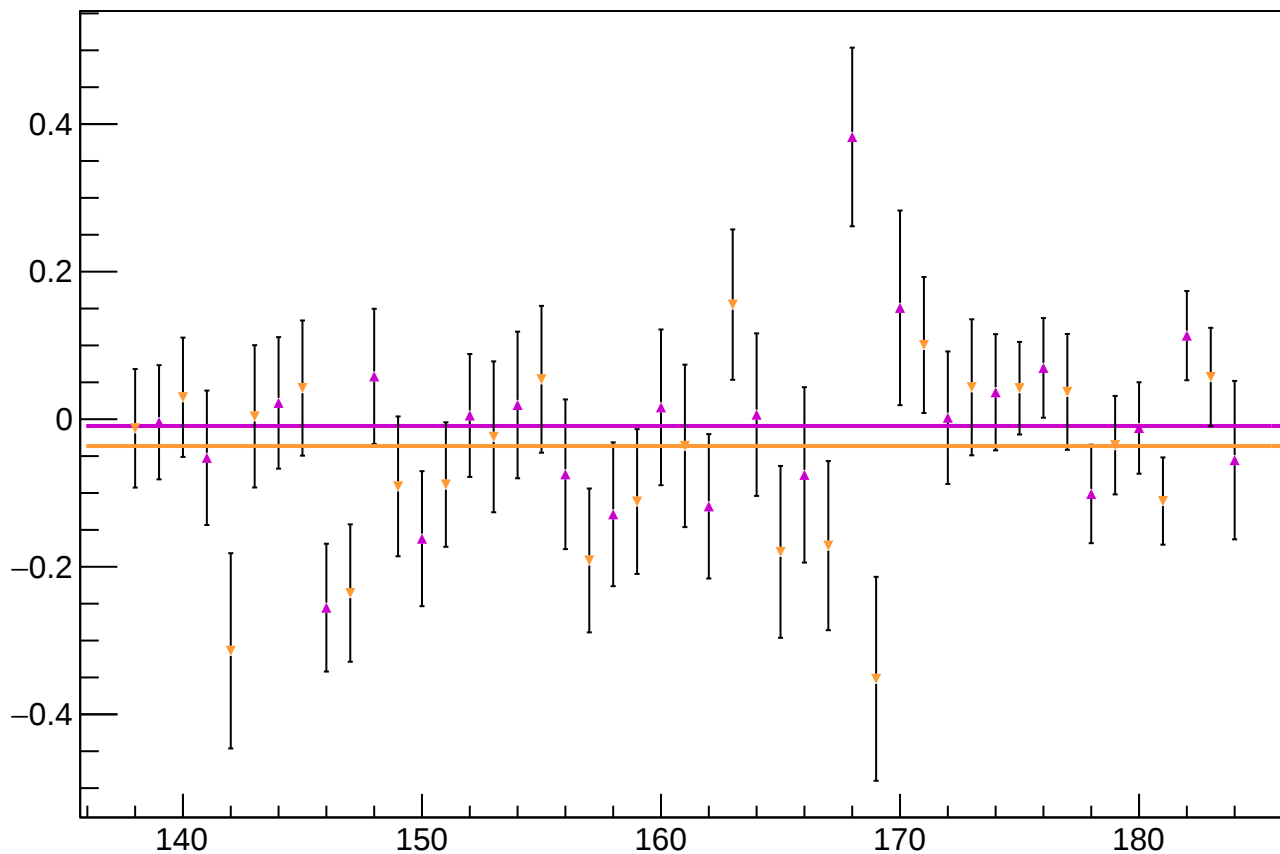
Left In: -0.651 $\pm$ 0.008  $\chi^2$ /NDF: 44167.1/22

+ sign -0.688 $\pm$ 0.007  $\chi^2$ /NDF: 59617.4/39

All: -0.725 $\pm$ 0.005  $\chi^2$ /NDF: 183348.4/79

- sign -0.761 $\pm$ 0.007  $\chi^2$ /NDF: 123679.5/39

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.036 $\pm$ 0.018  $\chi^2$ /NDF: 35.9/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

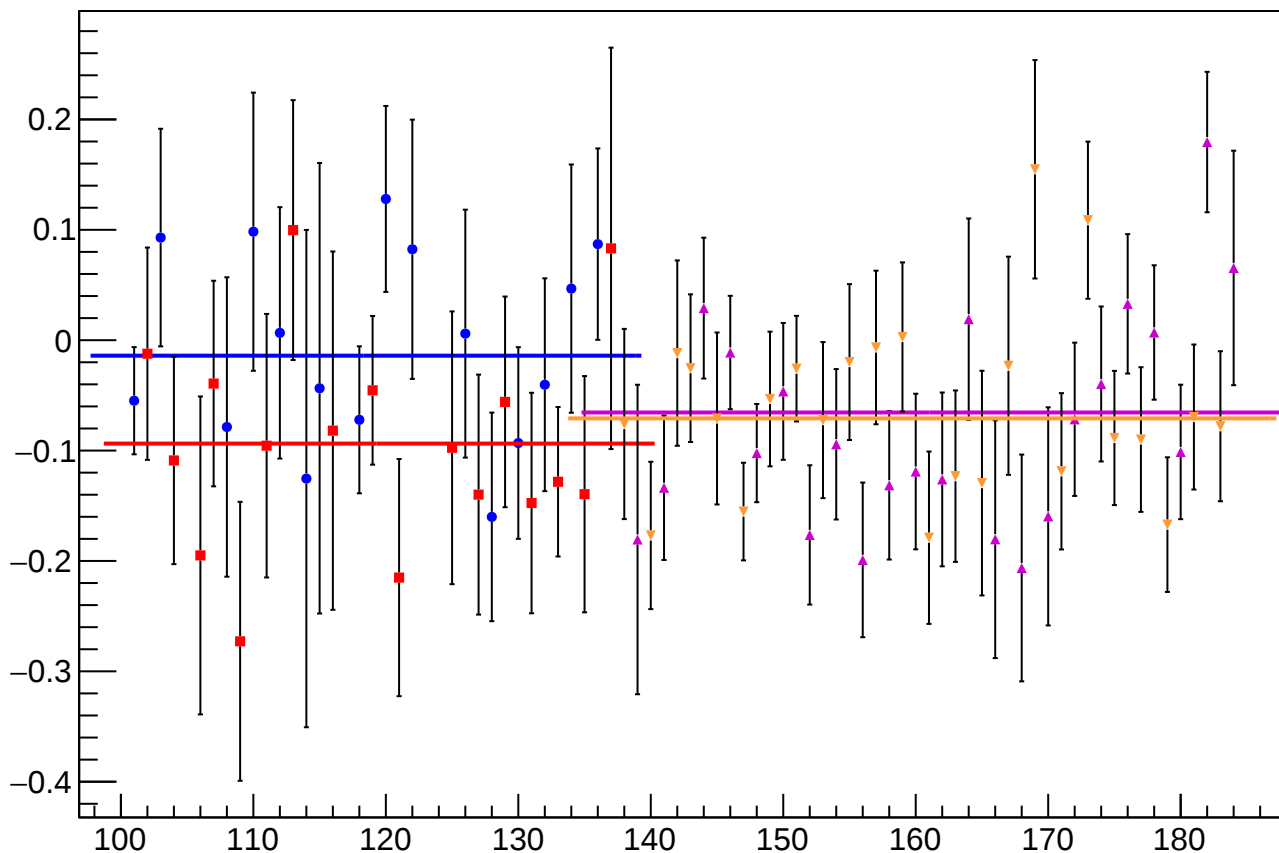
Left In: -0.009 $\pm$ 0.018  $\chi^2$ /NDF: 35.3/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.023 $\pm$ 0.013  $\chi^2$ /NDF: 72.3/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.014 \pm 0.023$   $\chi^2/\text{NDF}$ : 12.5/15

Left Out:  $-0.071 \pm 0.014$   $\chi^2/\text{NDF}$ : 28.3/23

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

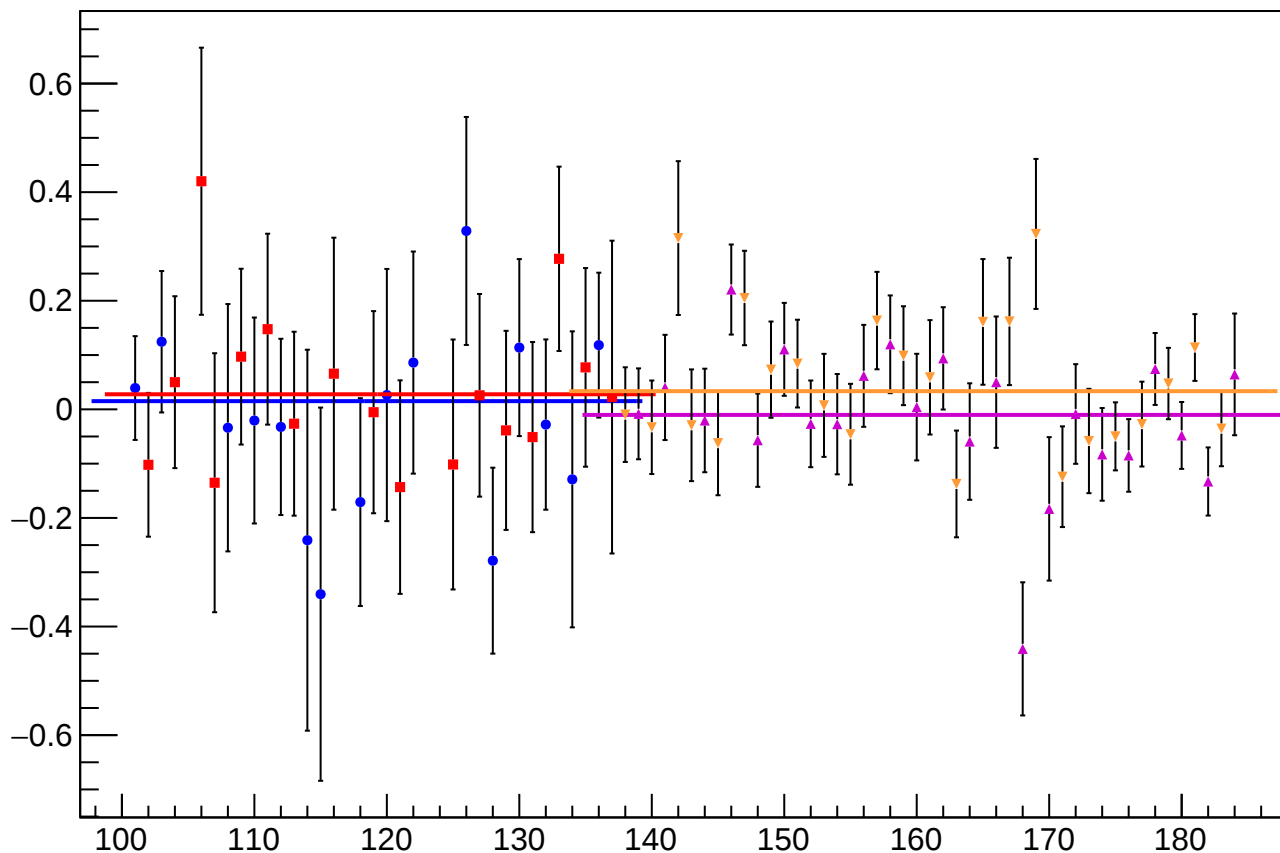
Left In:  $-0.065 \pm 0.014$   $\chi^2/\text{NDF}$ : 40.4/22

+ sign  $-0.056 \pm 0.012$   $\chi^2/\text{NDF}$ : 45.2/39

All:  $-0.064 \pm 0.009$   $\chi^2/\text{NDF}$ : 97.5/79

- sign  $-0.073 \pm 0.012$   $\chi^2/\text{NDF}$ : 51.4/39

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.015 \pm 0.043$   $\chi^2/\text{NDF}$ : 10.1/15

Left Out:  $0.033 \pm 0.018$   $\chi^2/\text{NDF}$ : 32.9/23

Right Out:  $0.028 \pm 0.045$   $\chi^2/\text{NDF}$ : 8.4/16

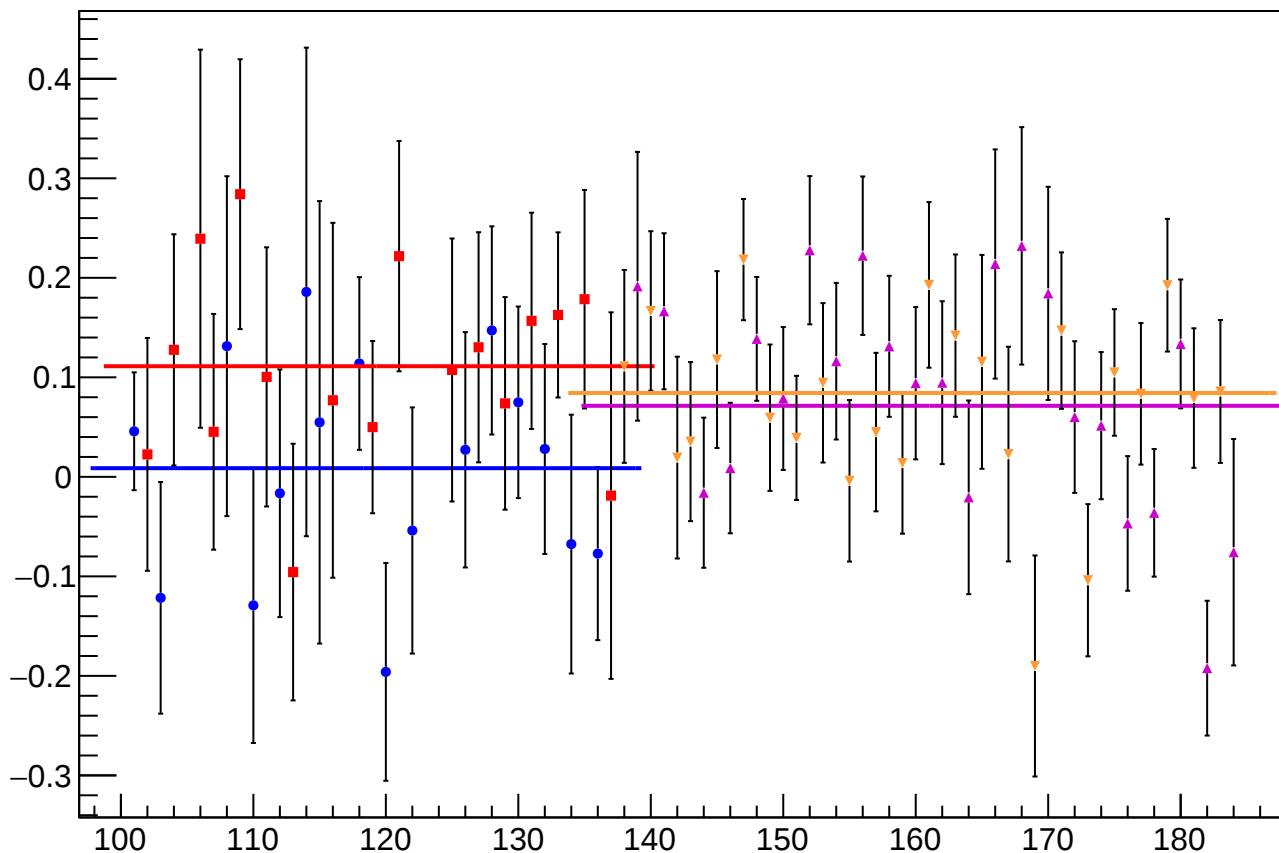
Left In:  $-0.010 \pm 0.018$   $\chi^2/\text{NDF}$ : 37.1/22

+ sign  $0.031 \pm 0.016$   $\chi^2/\text{NDF}$ : 43.1/39

All:  $0.013 \pm 0.012$   $\chi^2/\text{NDF}$ : 91.6/79

- sign  $-0.005 \pm 0.017$   $\chi^2/\text{NDF}$ : 46.1/39

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.009 \pm 0.027$   $\chi^2/\text{NDF}$ : 12.6/15

Left Out:  $0.084 \pm 0.016$   $\chi^2/\text{NDF}$ : 28.1/23

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.6/16

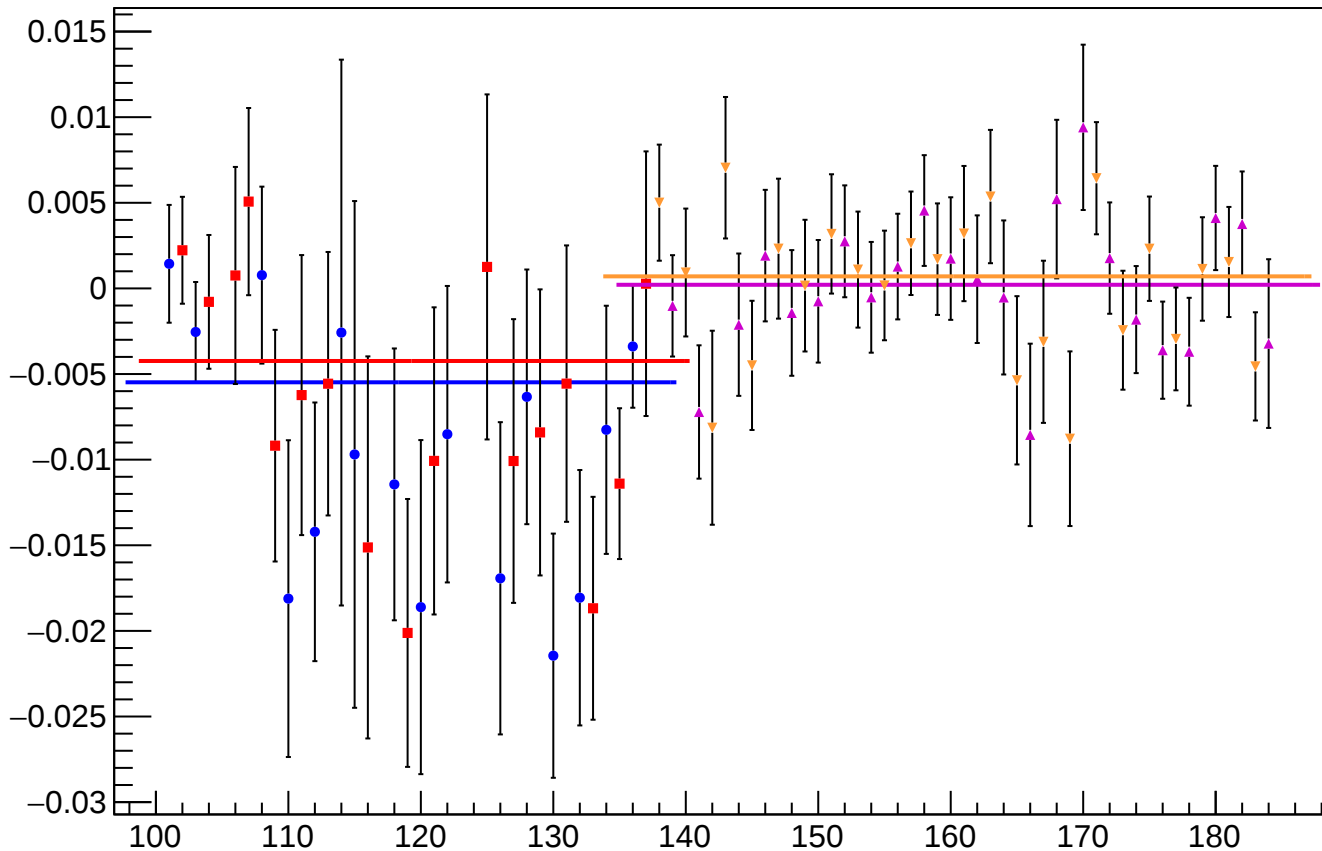
Left In:  $0.071 \pm 0.016$   $\chi^2/\text{NDF}$ : 44.0/22

+ sign  $0.065 \pm 0.014$   $\chi^2/\text{NDF}$ : 46.6/39

All:  $0.073 \pm 0.010$   $\chi^2/\text{NDF}$ : 101.3/79

- sign  $0.081 \pm 0.014$   $\chi^2/\text{NDF}$ : 54.0/39

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}: 22.3/15$

Left Out:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}: 25.5/23$

Right Out:  $-0.004 \pm 0.001$   $\chi^2/\text{NDF}: 23.7/16$

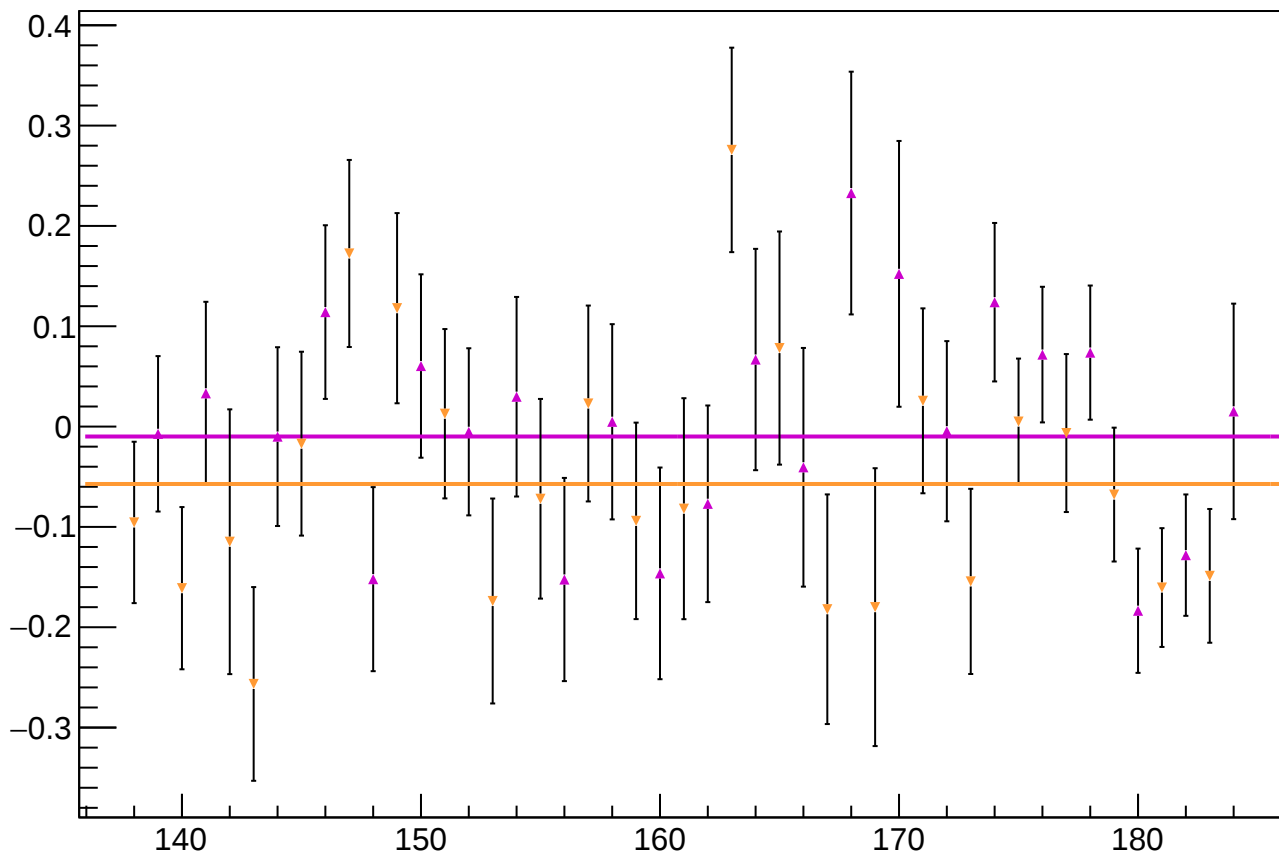
Left In:  $0.000 \pm 0.001$   $\chi^2/\text{NDF}: 22.4/22$

+ sign  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}: 62.4/39$

All:  $-0.001 \pm 0.000$   $\chi^2/\text{NDF}: 115.9/79$

- sign  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}: 53.4/39$

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.057 $\pm$ 0.018  $\chi^2$ /NDF: 41.2/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

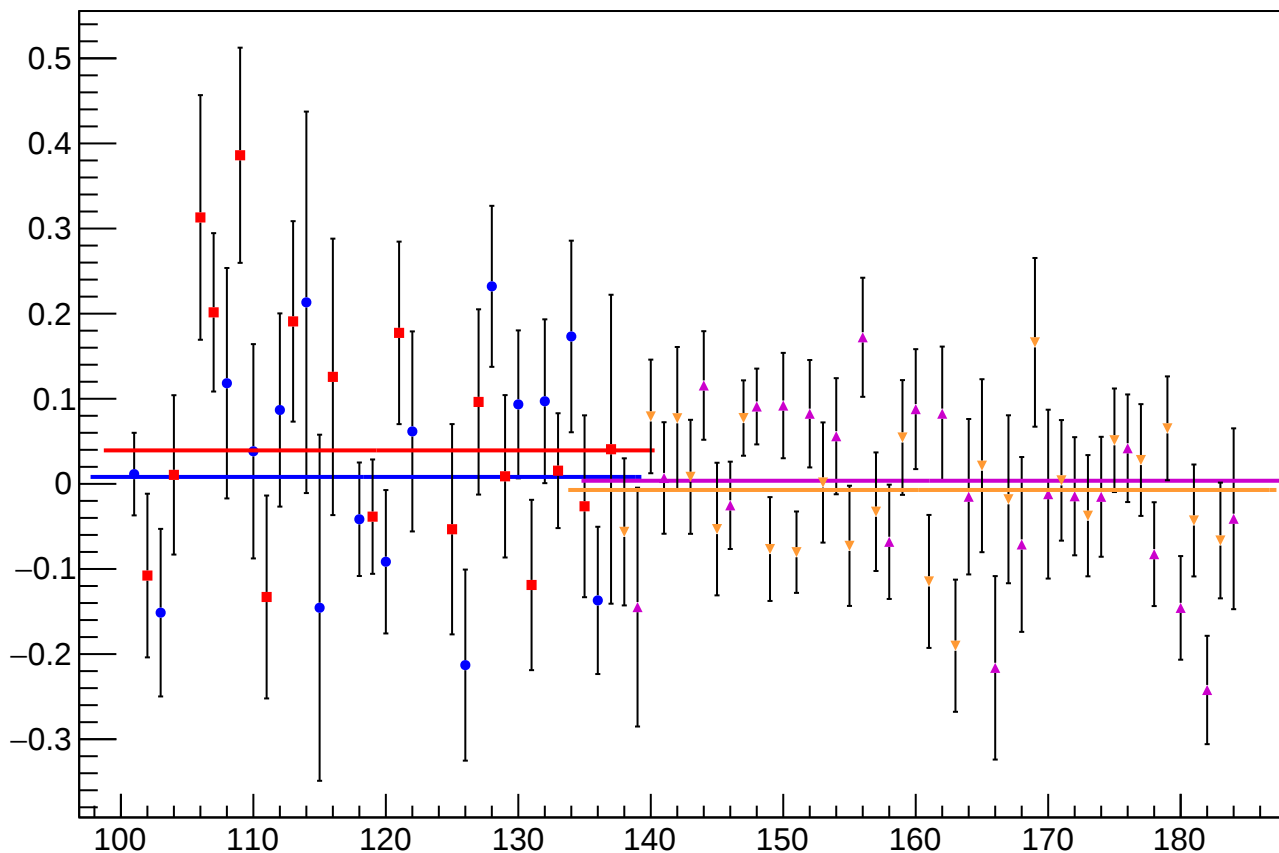
Left In: -0.010 $\pm$ 0.018  $\chi^2$ /NDF: 33.3/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.013  $\chi^2$ /NDF: 77.9/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.008 \pm 0.023$   $\chi^2/\text{NDF}$ : 23.7/15

Left Out:  $-0.007 \pm 0.014$   $\chi^2/\text{NDF}$ : 27.0/23

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

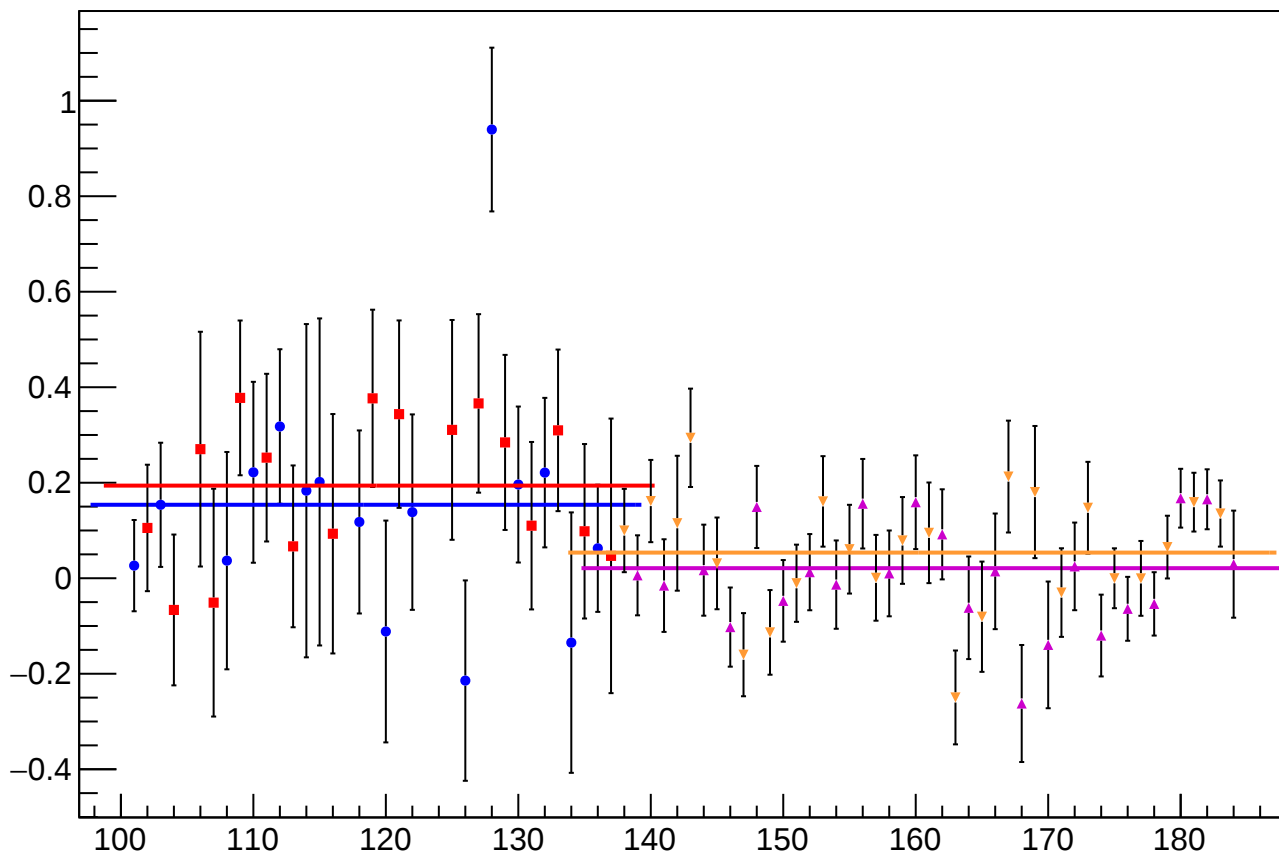
Left In:  $0.004 \pm 0.014$   $\chi^2/\text{NDF}$ : 50.3/22

+ sign  $-0.003 \pm 0.012$   $\chi^2/\text{NDF}$ : 51.0/39

All:  $0.004 \pm 0.009$   $\chi^2/\text{NDF}$ : 131.3/79

- sign  $0.013 \pm 0.012$   $\chi^2/\text{NDF}$ : 79.4/39

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.154 $\pm$ 0.043  $\chi^2$ /NDF: 30.5/15

Left Out: 0.054 $\pm$ 0.018  $\chi^2$ /NDF:40.5/23

Right Out: 0.194 $\pm$ 0.045  $\chi^2$ /NDF: 10.6/16

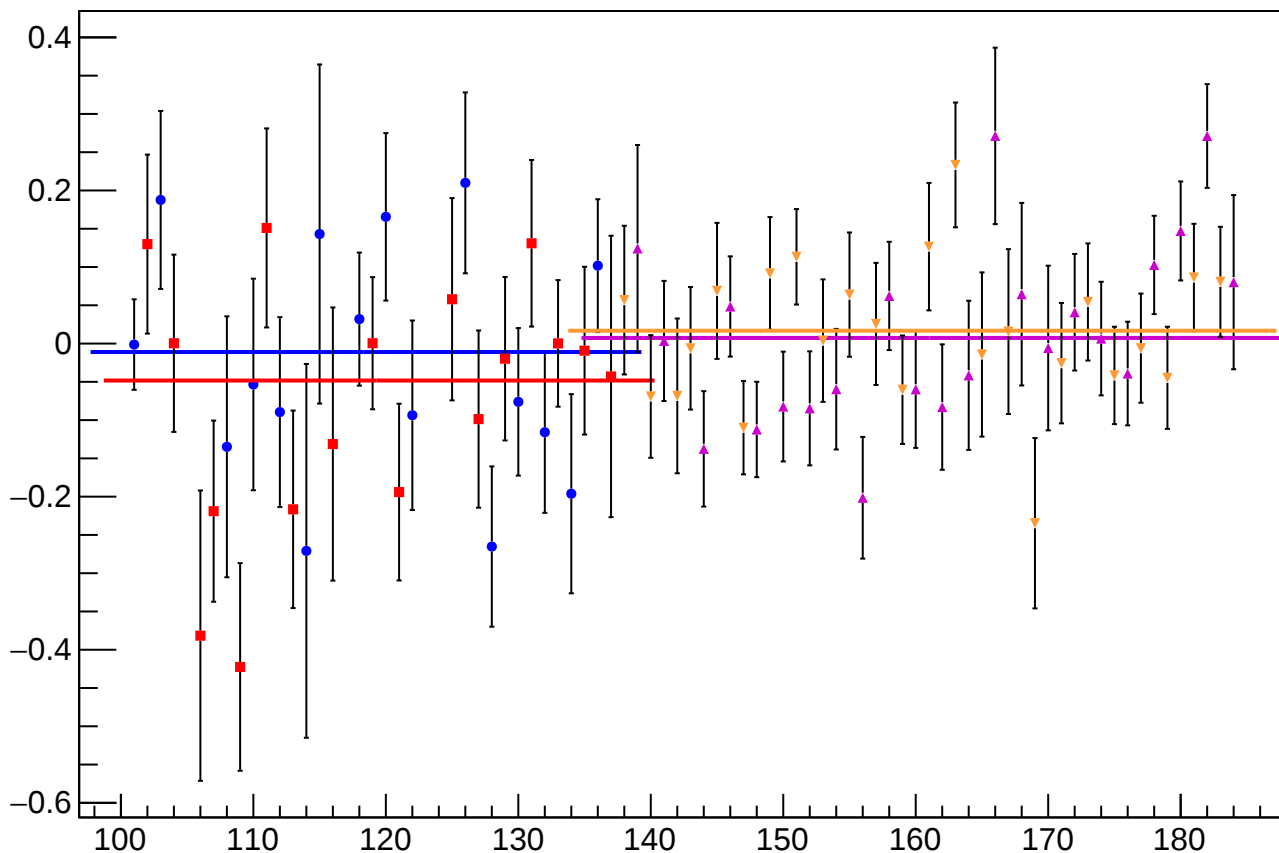
Left In: 0.021 $\pm$ 0.018  $\chi^2$ /NDF:34.0/22

+ sign 0.069 $\pm$ 0.016  $\chi^2$ /NDF: 75.7/39

All: 0.057 $\pm$ 0.012  $\chi^2$ /NDF: 134.0/79

- sign 0.045 $\pm$ 0.017  $\chi^2$ /NDF: 57.3/39

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -0.011+/-0.027  $\chi^2/\text{NDF}$ : 23.4/15

Left Out: 0.017+/-0.016  $\chi^2/\text{NDF}$ : 29.9/23

Right Out: -0.048+/-0.029  $\chi^2/\text{NDF}$ : 25.6/16

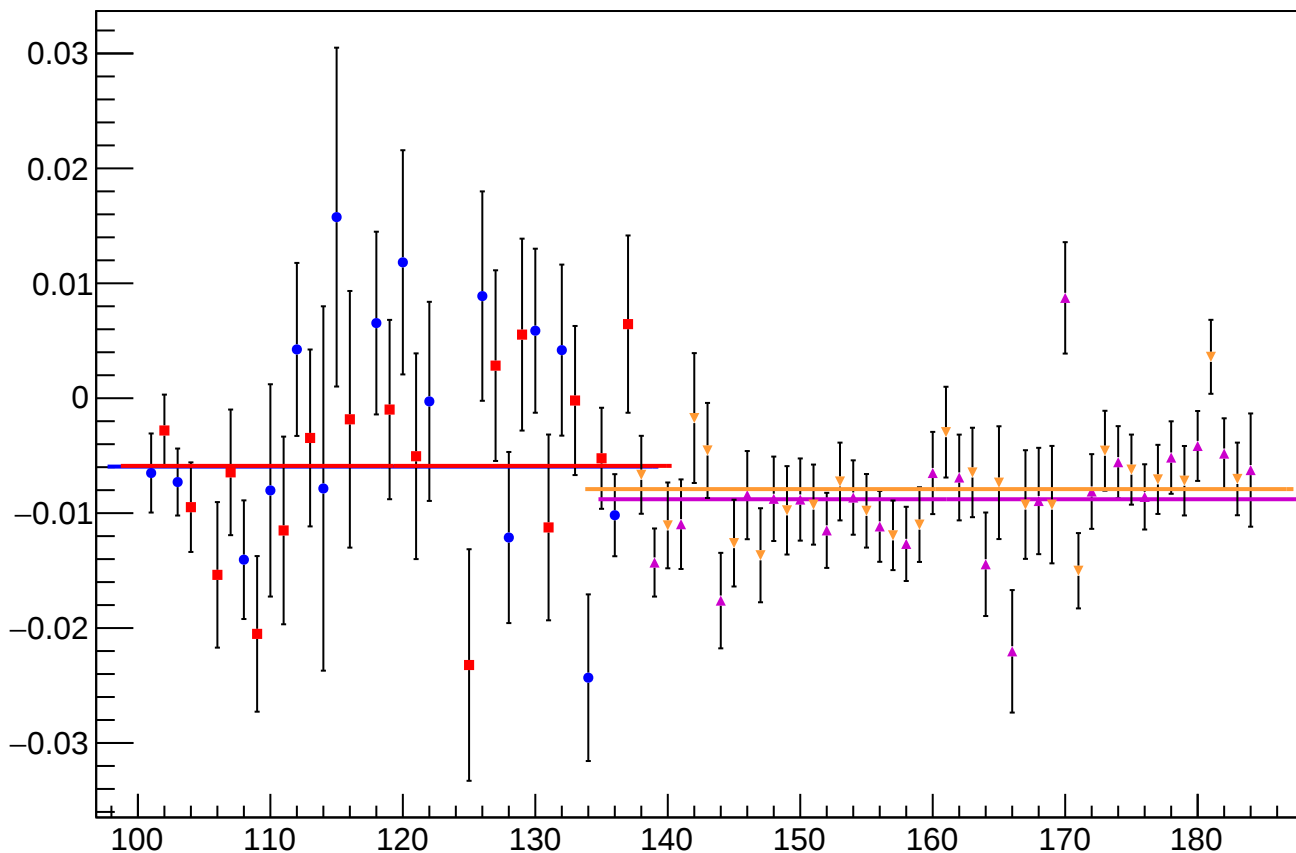
Left In: 0.007+/-0.016  $\chi^2/\text{NDF}$ : 50.7/22

+ sign 0.010+/-0.014  $\chi^2/\text{NDF}$ : 54.1/39

All: 0.002+/-0.010  $\chi^2/\text{NDF}$ : 133.8/79

- sign -0.006+/-0.014  $\chi^2/\text{NDF}$ : 79.1/39

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 28.7/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 30.5/23

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 19.6/16

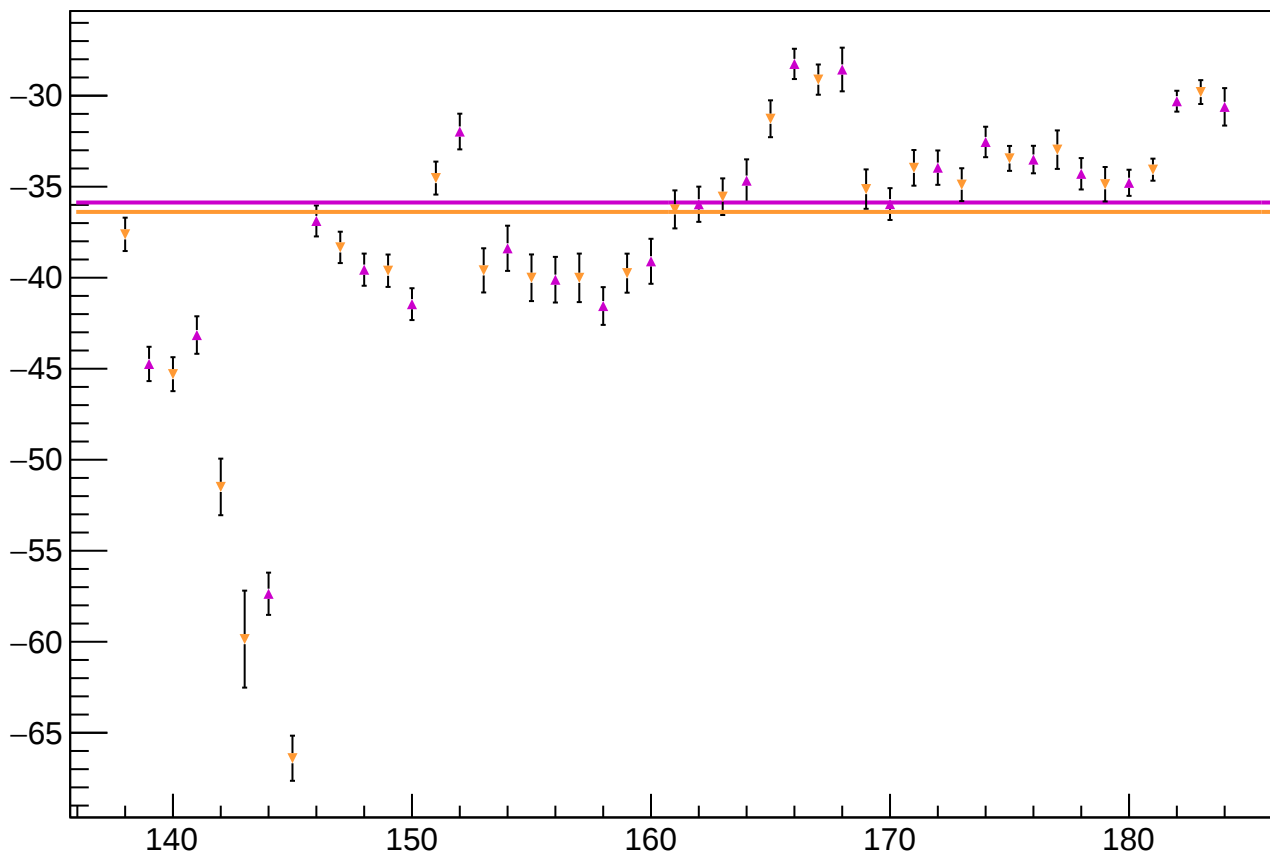
Left In:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 39.2/22

+ sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 60.7/39

All:  $-0.008 \pm 0.000$   $\chi^2/\text{NDF}$ : 123.2/79

- sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 61.9/39

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -36.386 $\pm$ 0.193  $\chi^2$ /NDF:1166.4/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

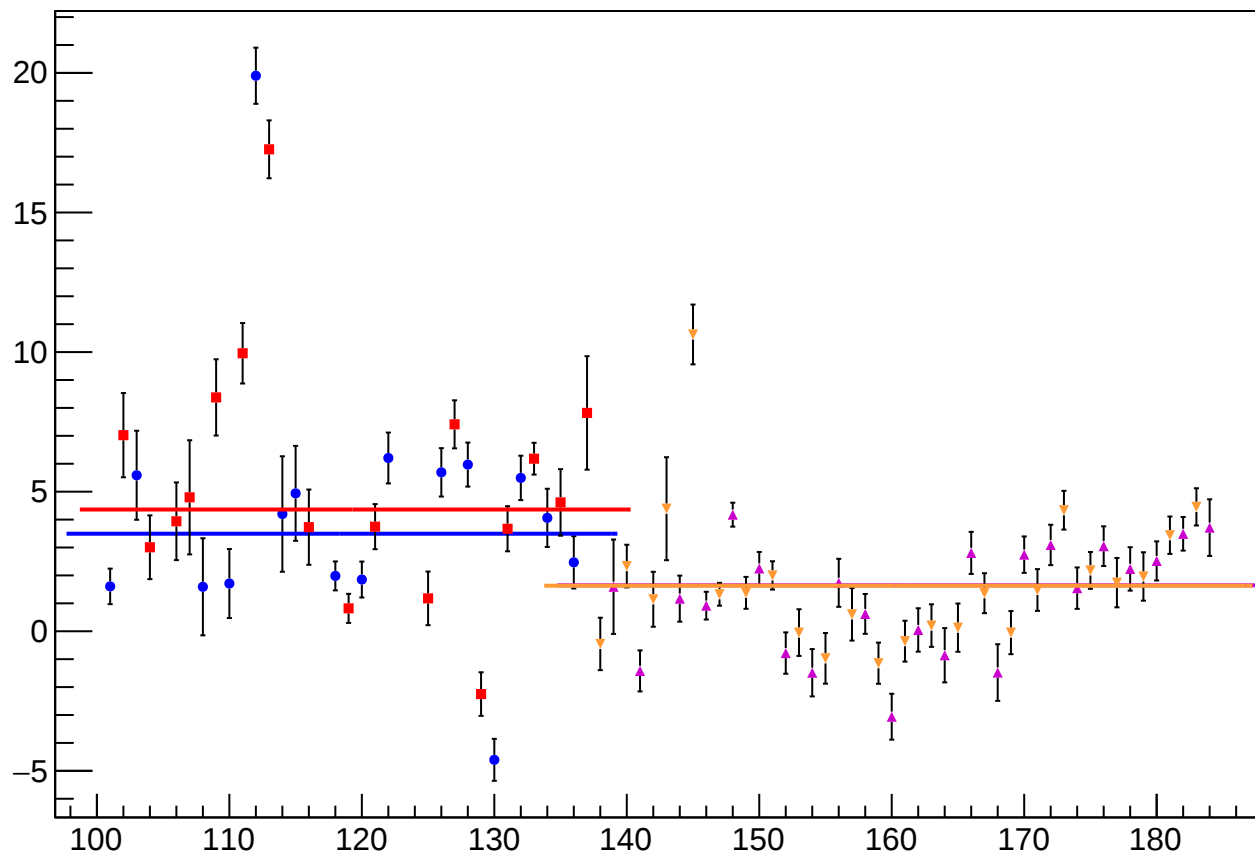
Left In: -35.869 $\pm$ 0.191  $\chi^2$ /NDF:887.1/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.124 $\pm$ 0.136  $\chi^2$ /NDF: 2057.2/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.494 \pm 0.218$   $\chi^2/\text{NDF}$ : 444.9/15

Left Out:  $1.632 \pm 0.148$   $\chi^2/\text{NDF}$ : 167.8/23

Right Out:  $4.360 \pm 0.225$   $\chi^2/\text{NDF}$ : 351.0/16

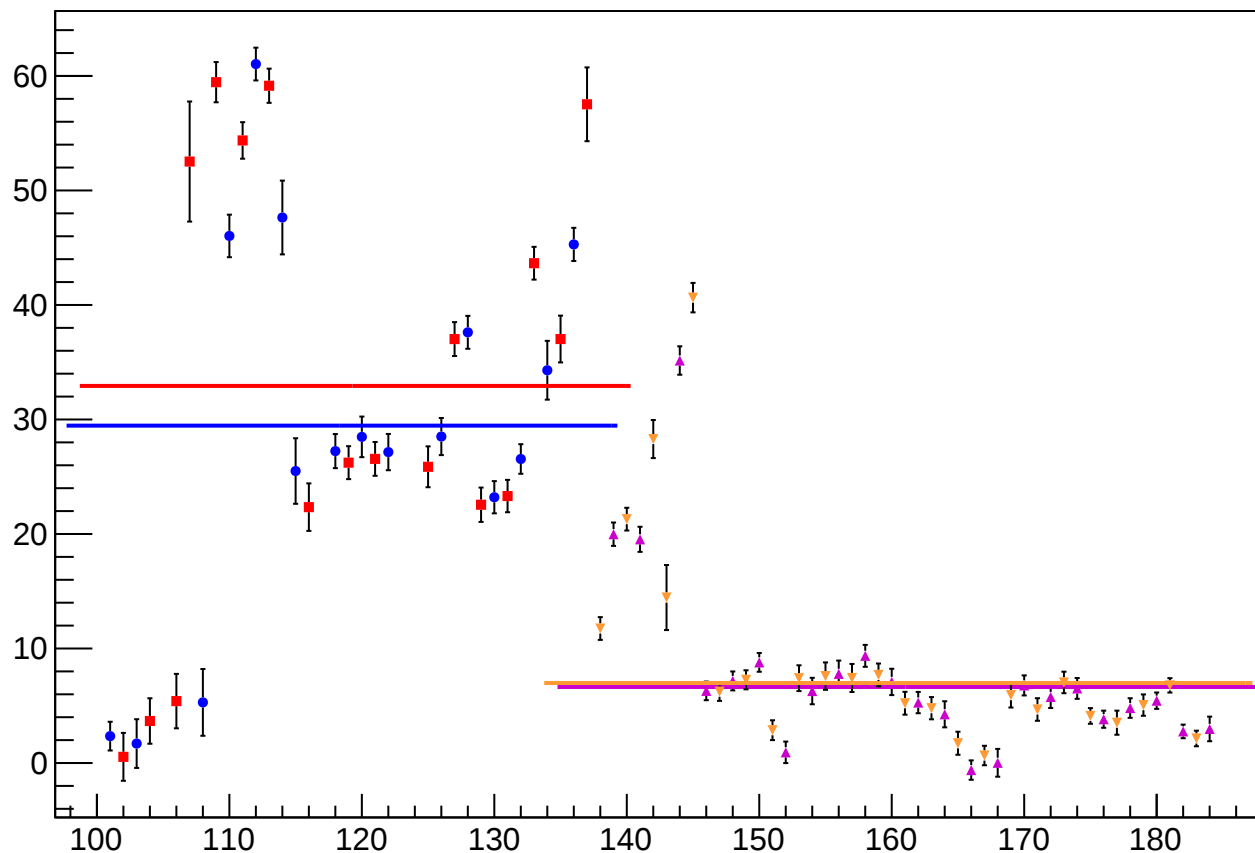
Left In:  $1.646 \pm 0.149$   $\chi^2/\text{NDF}$ : 164.1/22

+ sign  $2.223 \pm 0.123$   $\chi^2/\text{NDF}$ : 662.7/39

All:  $2.346 \pm 0.087$   $\chi^2/\text{NDF}$ : 1280.7/79

- sign  $2.473 \pm 0.124$   $\chi^2/\text{NDF}$ : 616.0/39

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $29.463 \pm 0.418$   $\chi^2/\text{NDF}$ : 1491.6/15

Left Out:  $6.988 \pm 0.193$   $\chi^2/\text{NDF}$ : 1291.7/23

Right Out:  $32.930 \pm 0.423$   $\chi^2/\text{NDF}$ : 1624.4/16

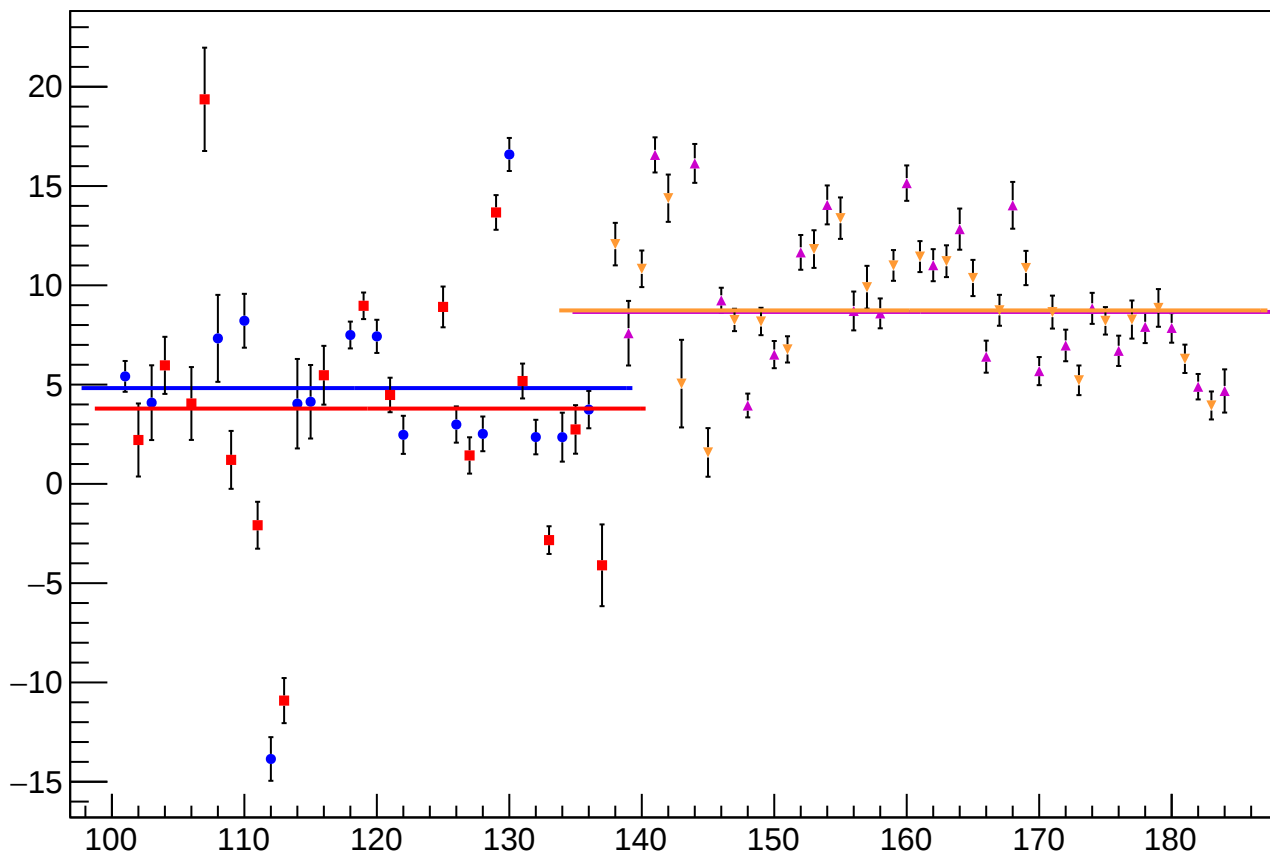
Left In:  $6.639 \pm 0.190$   $\chi^2/\text{NDF}$ : 1077.2/22

+ sign  $10.934 \pm 0.175$   $\chi^2/\text{NDF}$ : 5172.2/39

All:  $10.985 \pm 0.123$   $\chi^2/\text{NDF}$ : 11083.5/79

- sign  $11.035 \pm 0.173$   $\chi^2/\text{NDF}$ : 5911.2/39

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}$ : 552.9/15

Left Out:  $8.736 \pm 0.170$   $\chi^2/\text{NDF}$ : 236.5/23

Right Out:  $3.792 \pm 0.259$   $\chi^2/\text{NDF}$ : 563.6/16

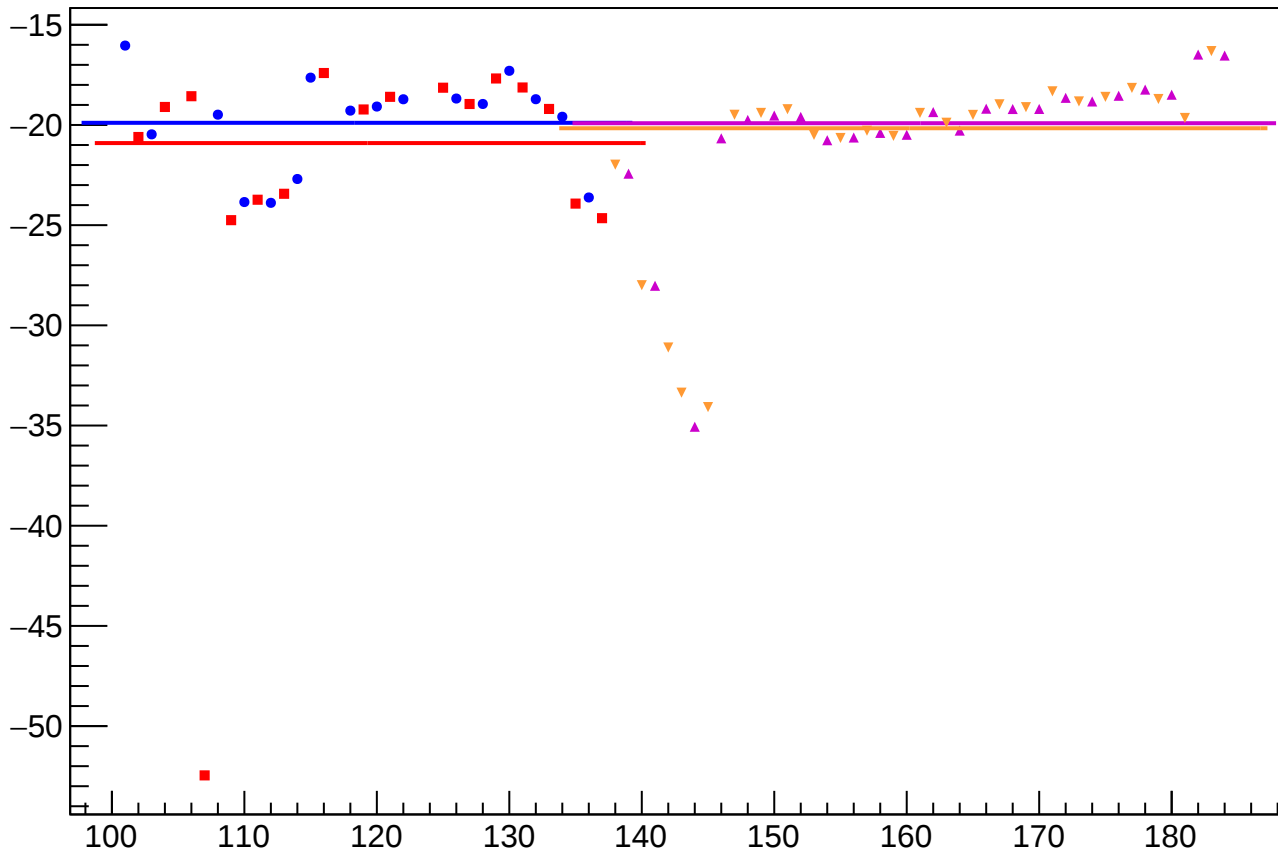
Left In:  $8.659 \pm 0.170$   $\chi^2/\text{NDF}$ : 438.0/22

+ sign  $7.511 \pm 0.141$   $\chi^2/\text{NDF}$ : 955.4/39

All:  $7.355 \pm 0.100$   $\chi^2/\text{NDF}$ : 2206.6/79

- sign  $7.197 \pm 0.142$   $\chi^2/\text{NDF}$ : 1248.7/39

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.892 \pm 0.016$   $\chi^2/\text{NDF}: 26092.3/15$

Left Out:  $-20.164 \pm 0.008$   $\chi^2/\text{NDF}: 179671.0/23$

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}: 92802.8/16$

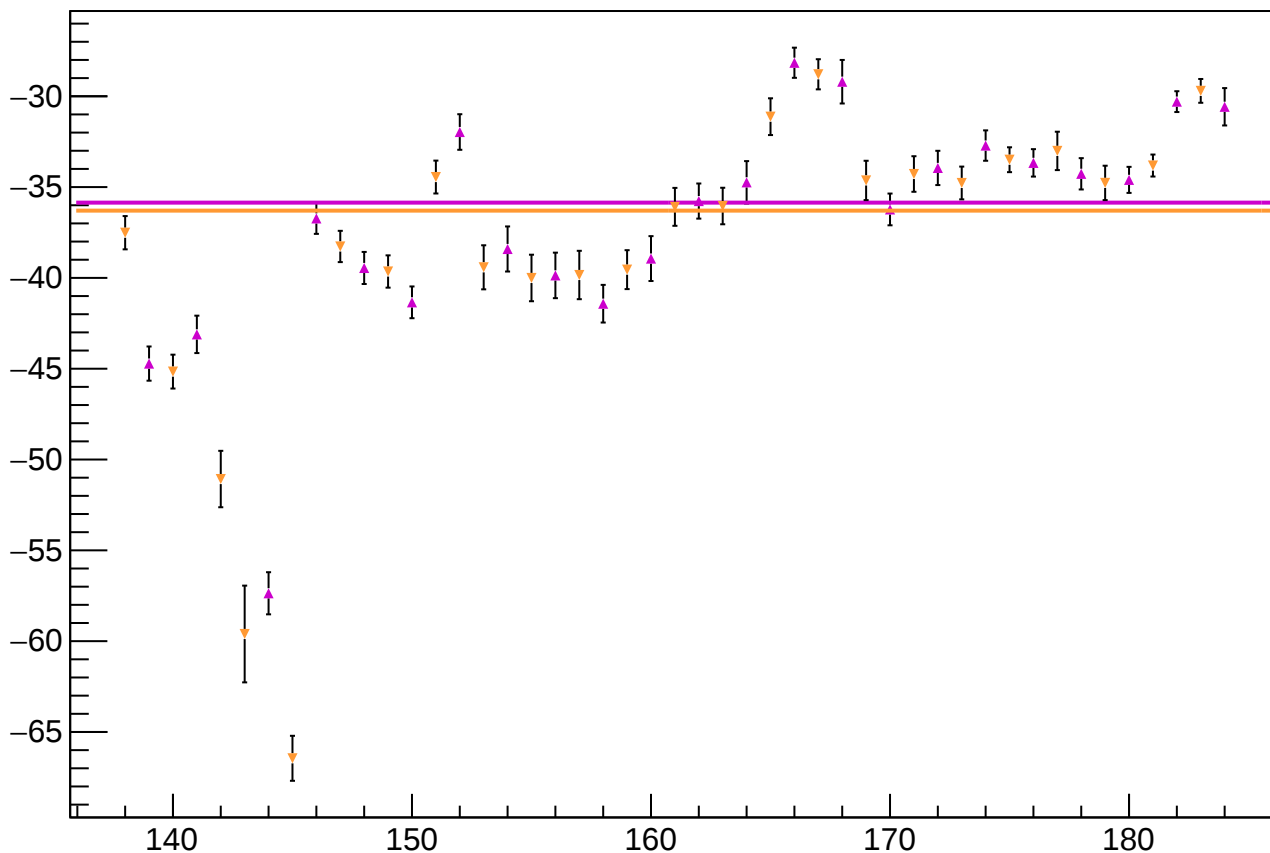
Left In:  $-19.912 \pm 0.008$   $\chi^2/\text{NDF}: 145487.3/22$

+ sign  $-20.107 \pm 0.007$   $\chi^2/\text{NDF}: 206003.6/39$

All:  $-20.108 \pm 0.005$   $\chi^2/\text{NDF}: 447476.5/79$

- sign  $-20.108 \pm 0.007$   $\chi^2/\text{NDF}: 241472.8/39$

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -36.296 $\pm$ 0.193  $\chi^2$ /NDF:1171.4/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

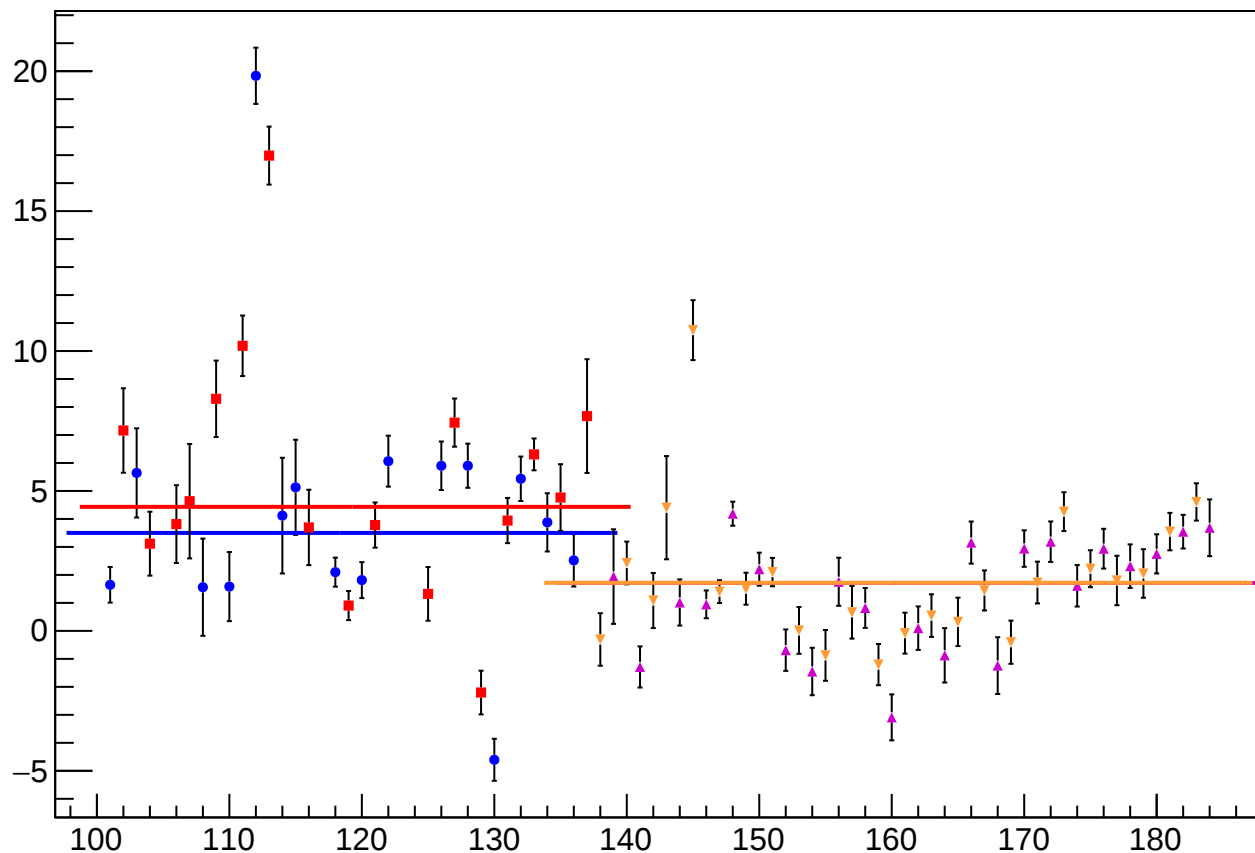
Left In: -35.856 $\pm$ 0.191  $\chi^2$ /NDF:875.9/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.073 $\pm$ 0.136  $\chi^2$ /NDF: 2049.9/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.501 \pm 0.218$   $\chi^2/\text{NDF}$ : 441.9/15

Left Out:  $1.717 \pm 0.148$   $\chi^2/\text{NDF}$ : 169.0/23

Right Out:  $4.432 \pm 0.225$   $\chi^2/\text{NDF}$ : 343.6/16

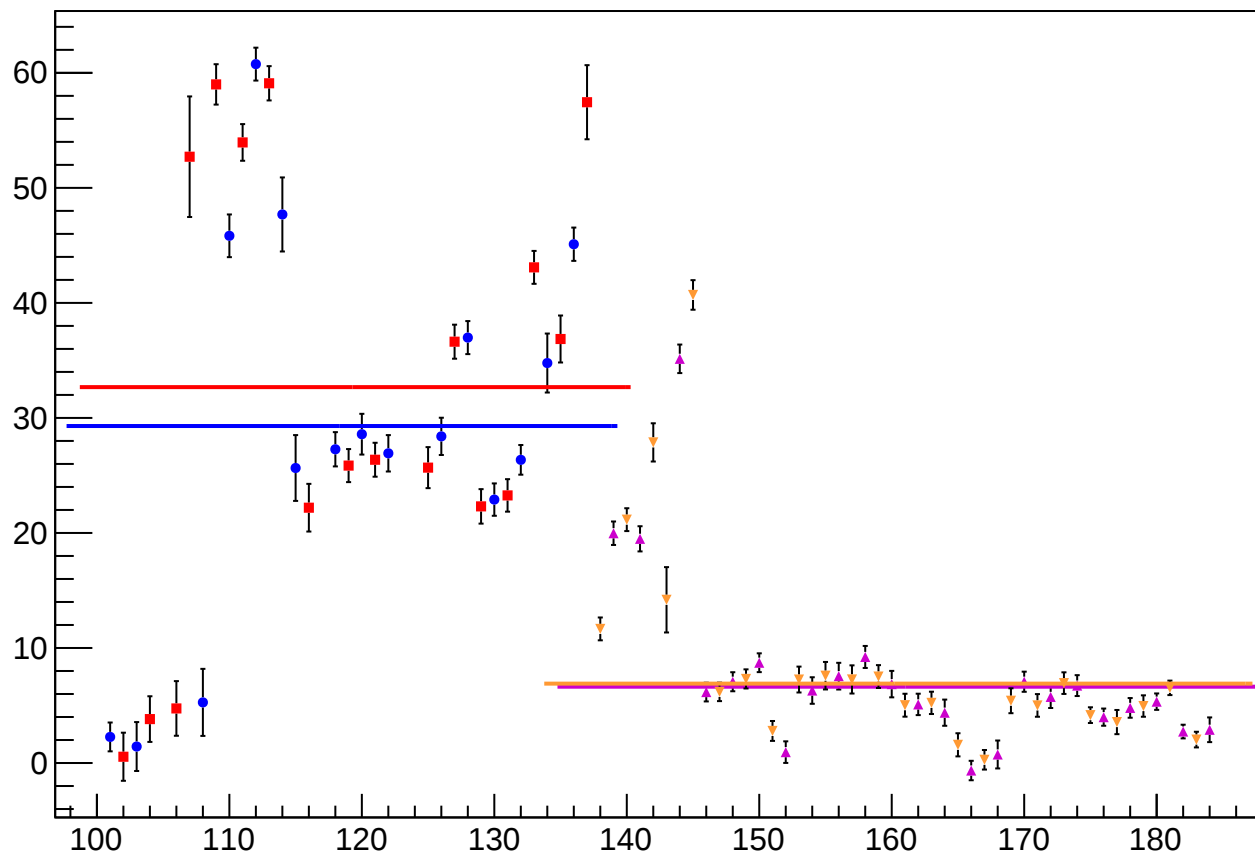
Left In:  $1.712 \pm 0.149$   $\chi^2/\text{NDF}$ : 164.1/22

+ sign  $2.283 \pm 0.123$   $\chi^2/\text{NDF}$ : 656.8/39

All:  $2.410 \pm 0.087$   $\chi^2/\text{NDF}$ : 1268.1/79

- sign  $2.541 \pm 0.124$   $\chi^2/\text{NDF}$ : 609.1/39

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $29.297 \pm 0.417$   $\chi^2/\text{NDF}$ : 1485.2/15

Left Out:  $6.901 \pm 0.193$   $\chi^2/\text{NDF}$ : 1293.3/23

Right Out:  $32.679 \pm 0.423$   $\chi^2/\text{NDF}$ : 1614.8/16

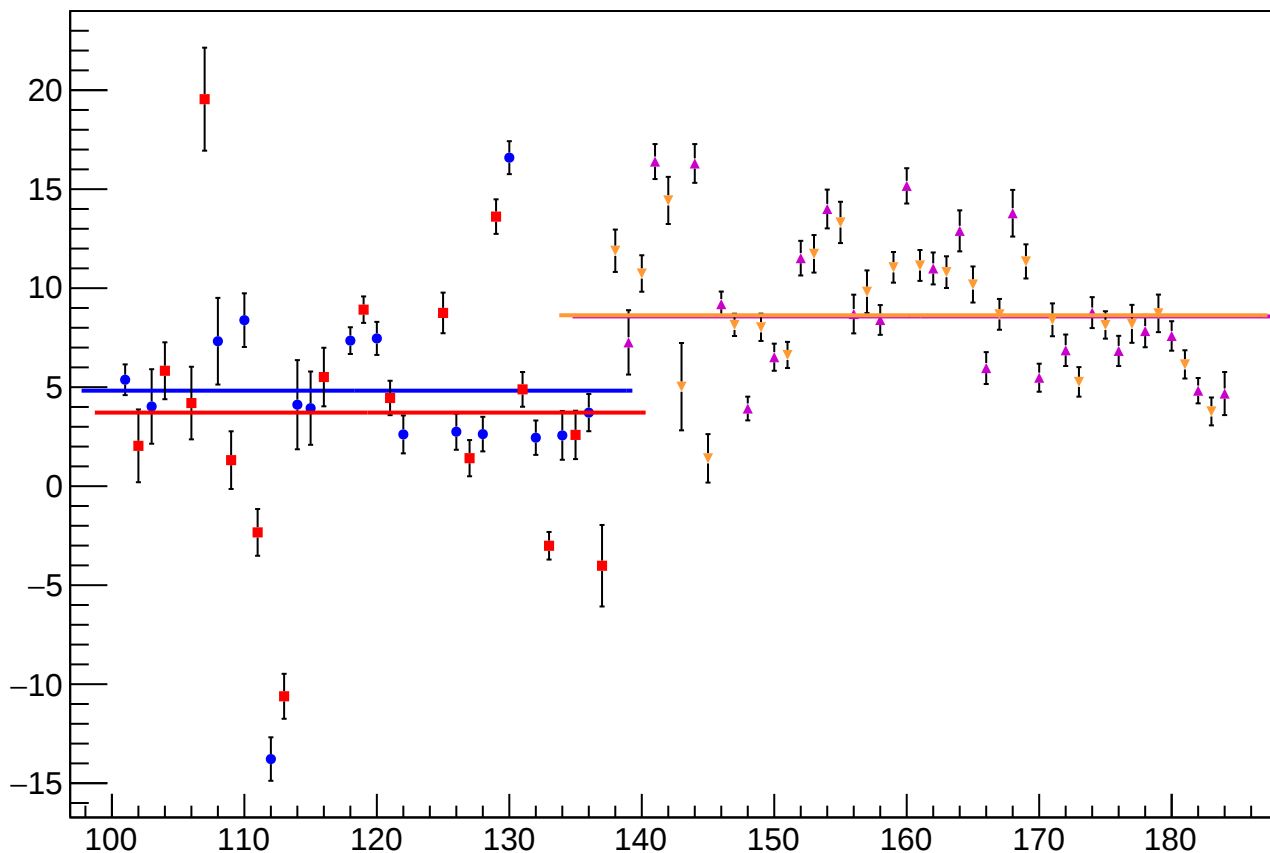
Left In:  $6.635 \pm 0.190$   $\chi^2/\text{NDF}$ : 1070.4/22

+ sign  $10.834 \pm 0.175$   $\chi^2/\text{NDF}$ : 5153.7/39

All:  $10.913 \pm 0.123$   $\chi^2/\text{NDF}$ : 10993.2/79

- sign  $10.991 \pm 0.173$   $\chi^2/\text{NDF}$ : 5839.1/39

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}: 549.2/15$

Left Out:  $8.632 \pm 0.170$   $\chi^2/\text{NDF}: 239.9/23$

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}: 559.9/16$

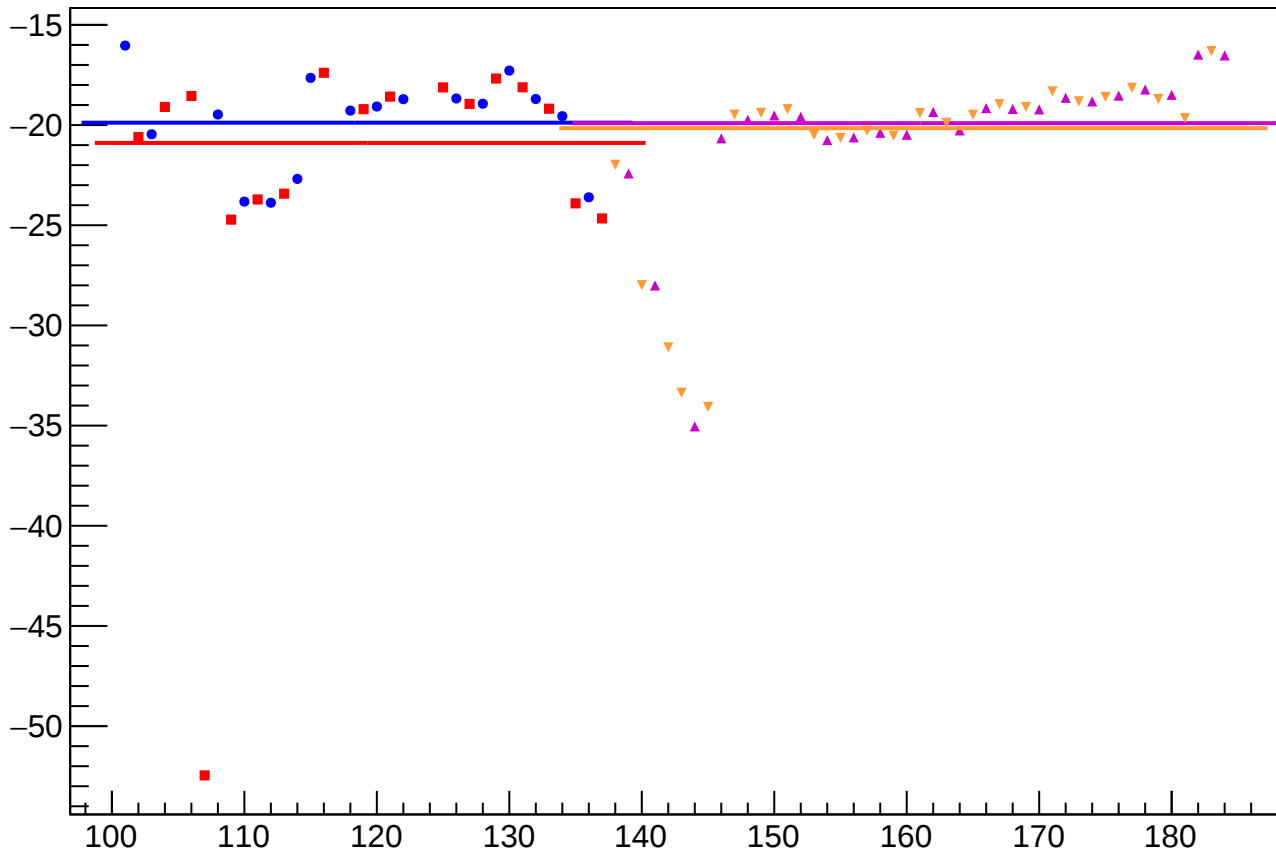
Left In:  $8.573 \pm 0.170$   $\chi^2/\text{NDF}: 443.4/22$

+ sign  $7.439 \pm 0.141$   $\chi^2/\text{NDF}: 946.6/39$

All:  $7.278 \pm 0.100$   $\chi^2/\text{NDF}: 2199.0/79$

- sign  $7.113 \pm 0.142$   $\chi^2/\text{NDF}: 1249.7/39$

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.880 \pm 0.016$   $\chi^2/\text{NDF}: 26082.0/15$

Left Out:  $-20.156 \pm 0.008$   $\chi^2/\text{NDF}: 179830.3/23$

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}: 92913.6/16$

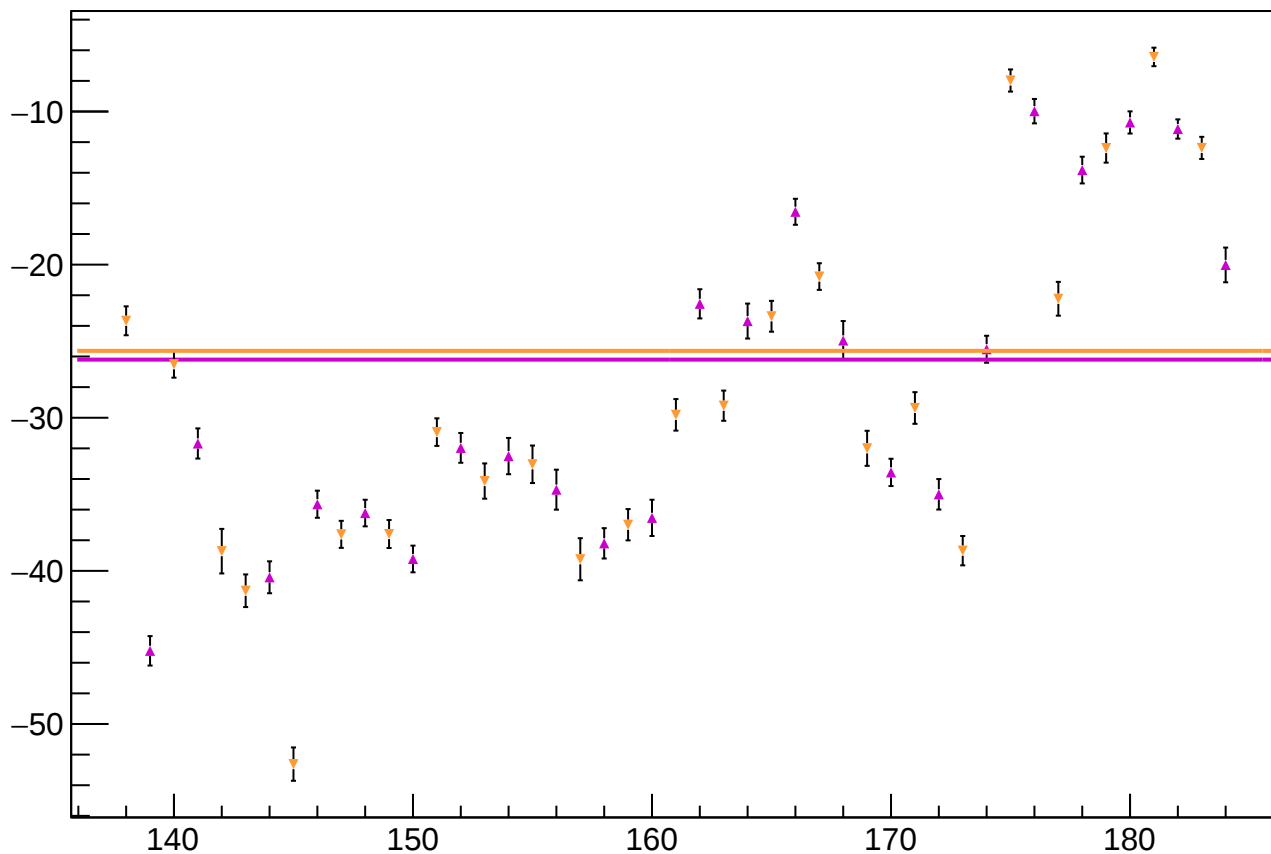
Left In:  $-19.905 \pm 0.008$   $\chi^2/\text{NDF}: 145346.7/22$

+ sign  $-20.099 \pm 0.007$   $\chi^2/\text{NDF}: 206161.2/39$

All:  $-20.099 \pm 0.005$   $\chi^2/\text{NDF}: 447574.0/79$

- sign  $-20.100 \pm 0.007$   $\chi^2/\text{NDF}: 241412.8/39$

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -25.630 $\pm$ 0.193  $\chi^2$ /NDF: 4054.2/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

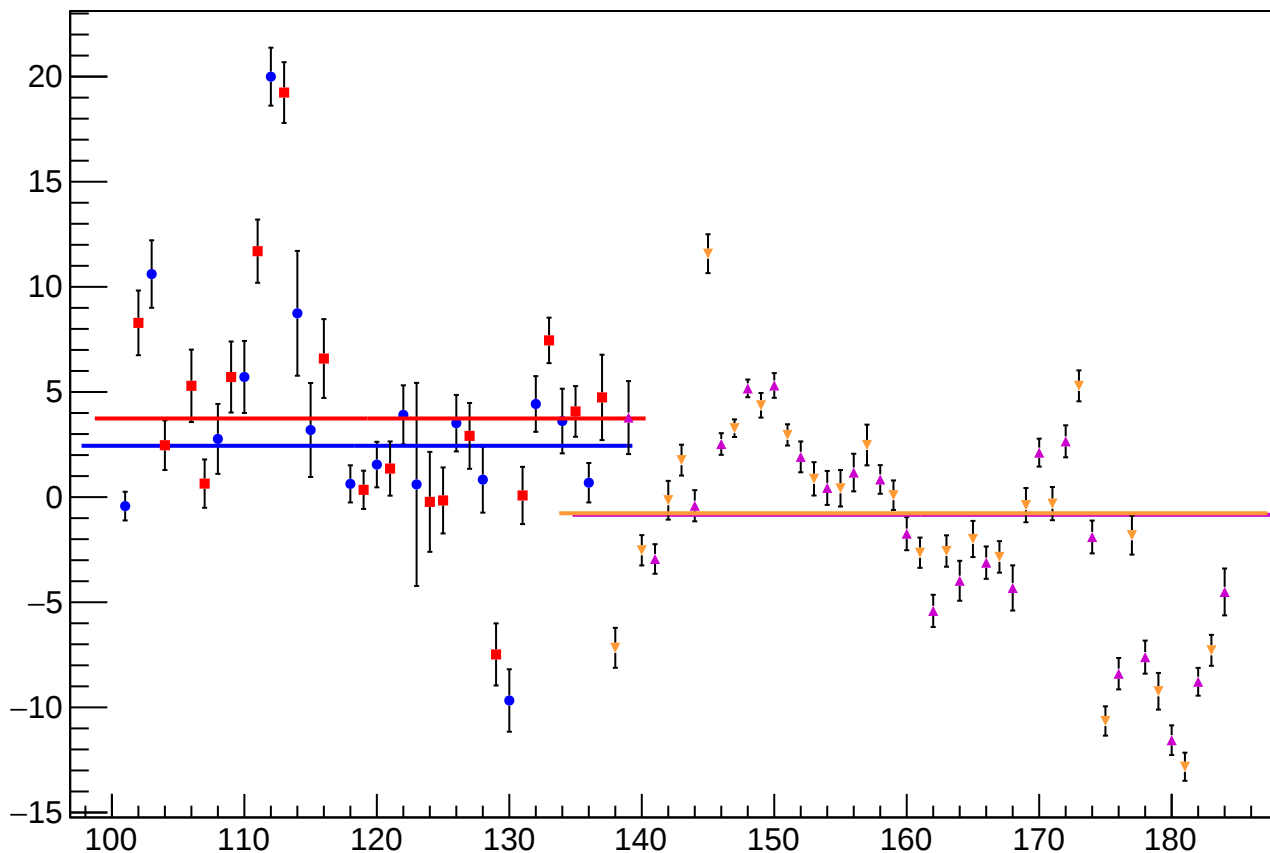
Left In: -26.204 $\pm$ 0.194  $\chi^2$ /NDF: 3377.8/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -25.916 $\pm$ 0.137  $\chi^2$ /NDF: 7436.4/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.441 \pm 0.311$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $-0.768 \pm 0.147$   $\chi^2/\text{NDF}$ : 1276.3/23

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.1/17

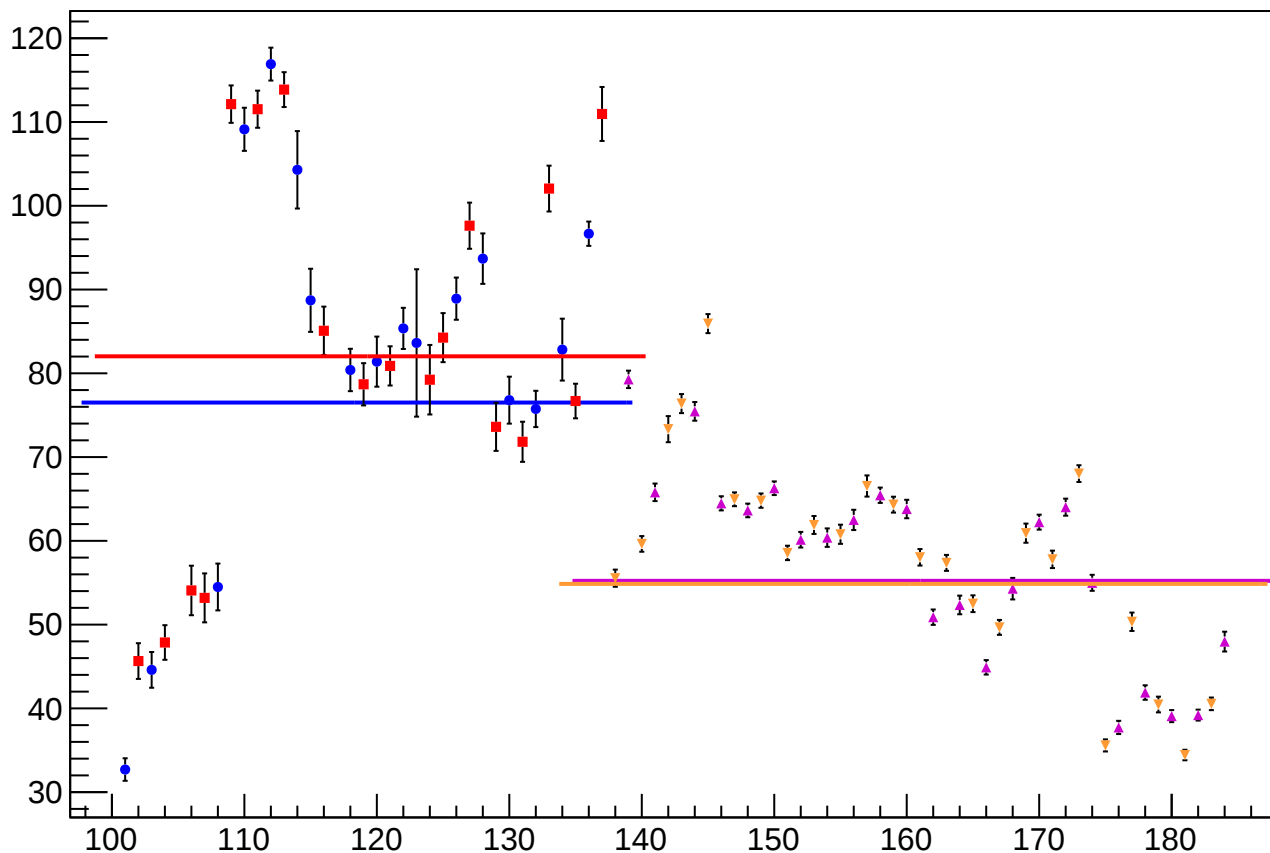
Left In:  $-0.842 \pm 0.150$   $\chi^2/\text{NDF}$ : 1071.6/22

+ sign  $-0.183 \pm 0.133$   $\chi^2/\text{NDF}$ : 1657.8/40

All:  $-0.115 \pm 0.095$   $\chi^2/\text{NDF}$ : 3160.6/81

- sign  $-0.043 \pm 0.136$   $\chi^2/\text{NDF}$ : 1502.3/40

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 54.862 $\pm$ 0.193  $\chi^2$ /NDF: 4480.3/23

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

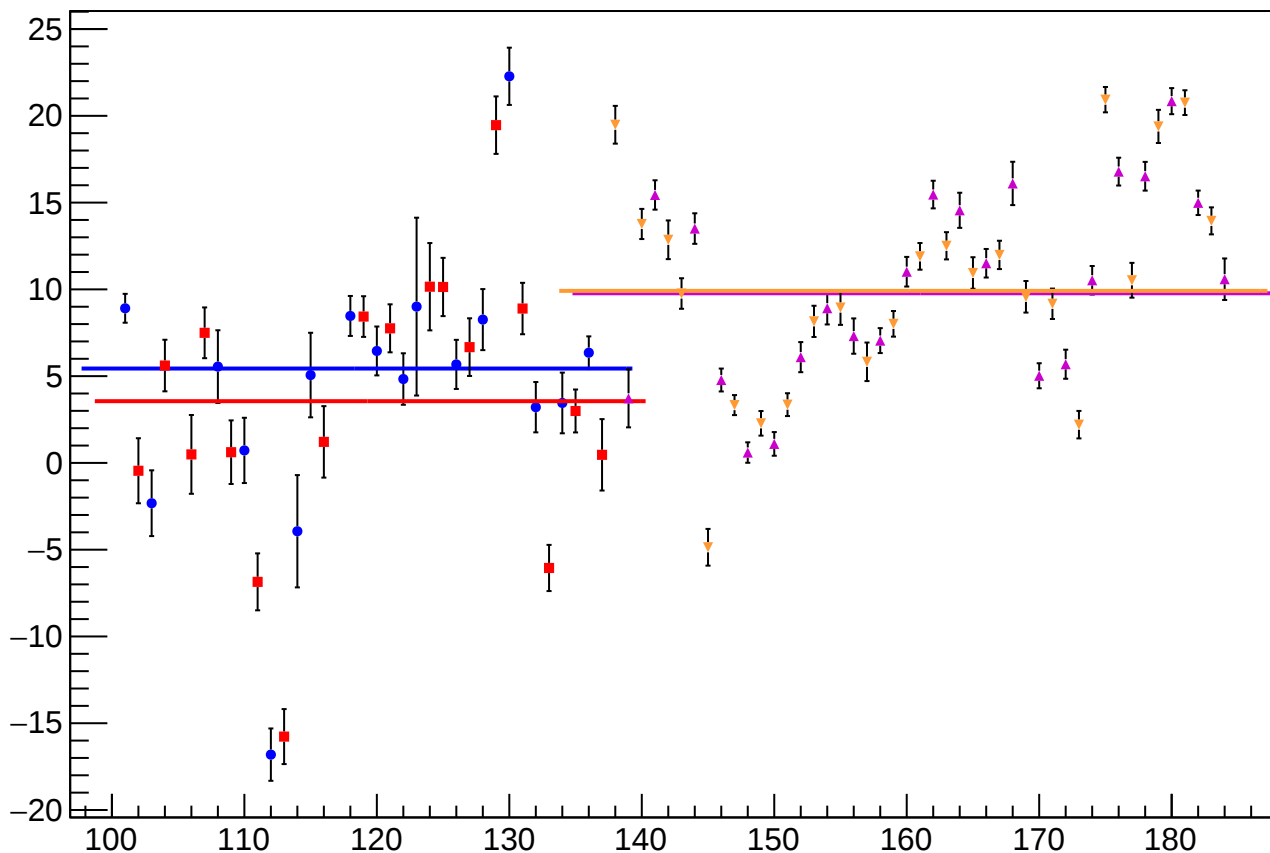
Left In: 55.225 $\pm$ 0.193  $\chi^2$ /NDF: 3825.0/22

+ sign 57.057 $\pm$ 0.183  $\chi^2$ /NDF: 8008.6/40

All: 57.423 $\pm$ 0.129  $\chi^2$ /NDF: 15239.6/81

- sign 57.790 $\pm$ 0.183  $\chi^2$ /NDF: 7222.9/40

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $5.439 \pm 0.358$   $\chi^2/\text{NDF}$ : 386.2/16

Left Out:  $9.914 \pm 0.169$   $\chi^2/\text{NDF}$ : 1374.8/23

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}$ : 420.6/17

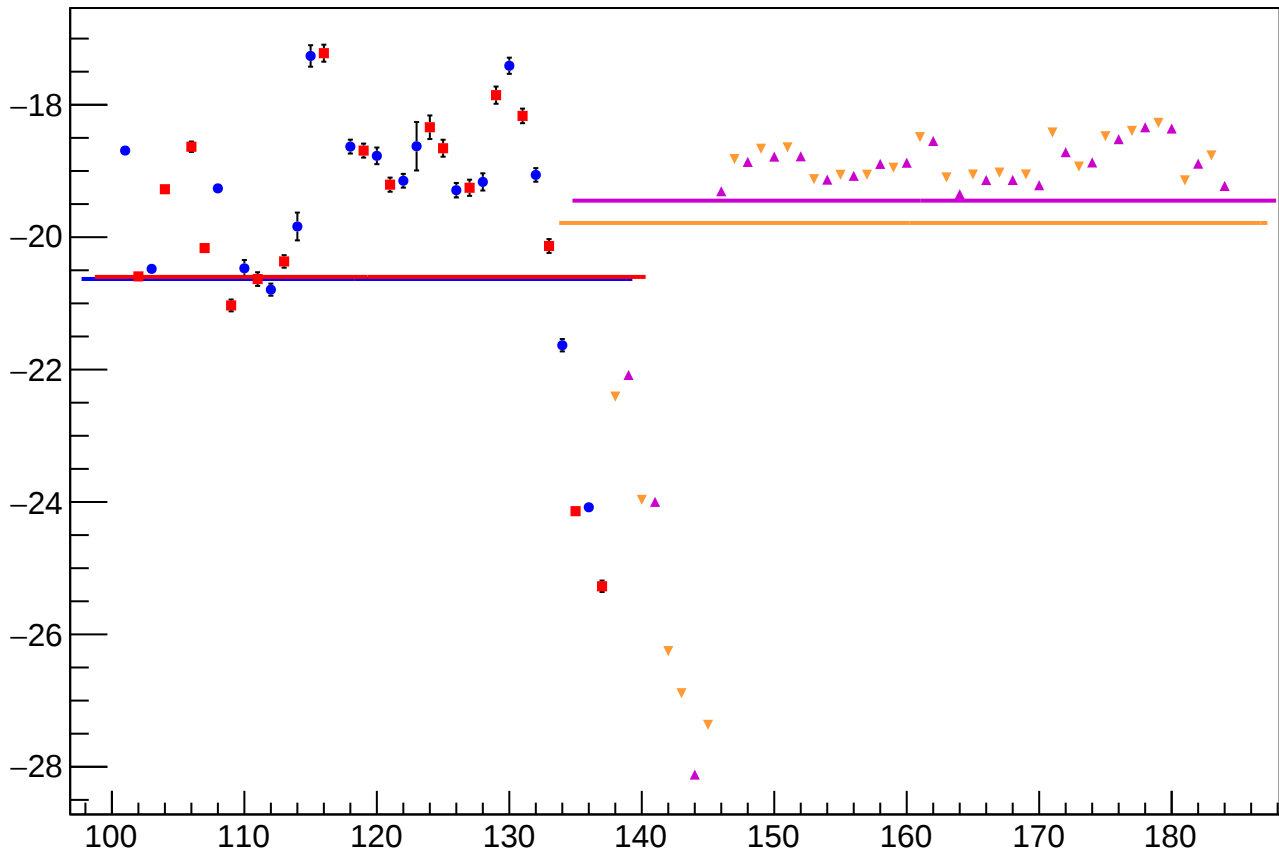
Left In:  $9.775 \pm 0.171$   $\chi^2/\text{NDF}$ : 1165.6/22

+ sign  $9.099 \pm 0.153$   $\chi^2/\text{NDF}$ : 1888.9/40

All:  $8.905 \pm 0.109$   $\chi^2/\text{NDF}$ : 3705.6/81

- sign  $8.703 \pm 0.156$   $\chi^2/\text{NDF}$ : 1813.4/40

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.631 \pm 0.019$   $\chi^2/\text{NDF}: 12501.6/16$

Left Out:  $-19.785 \pm 0.008$   $\chi^2/\text{NDF}: 91355.4/23$

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}: 11973.7/17$

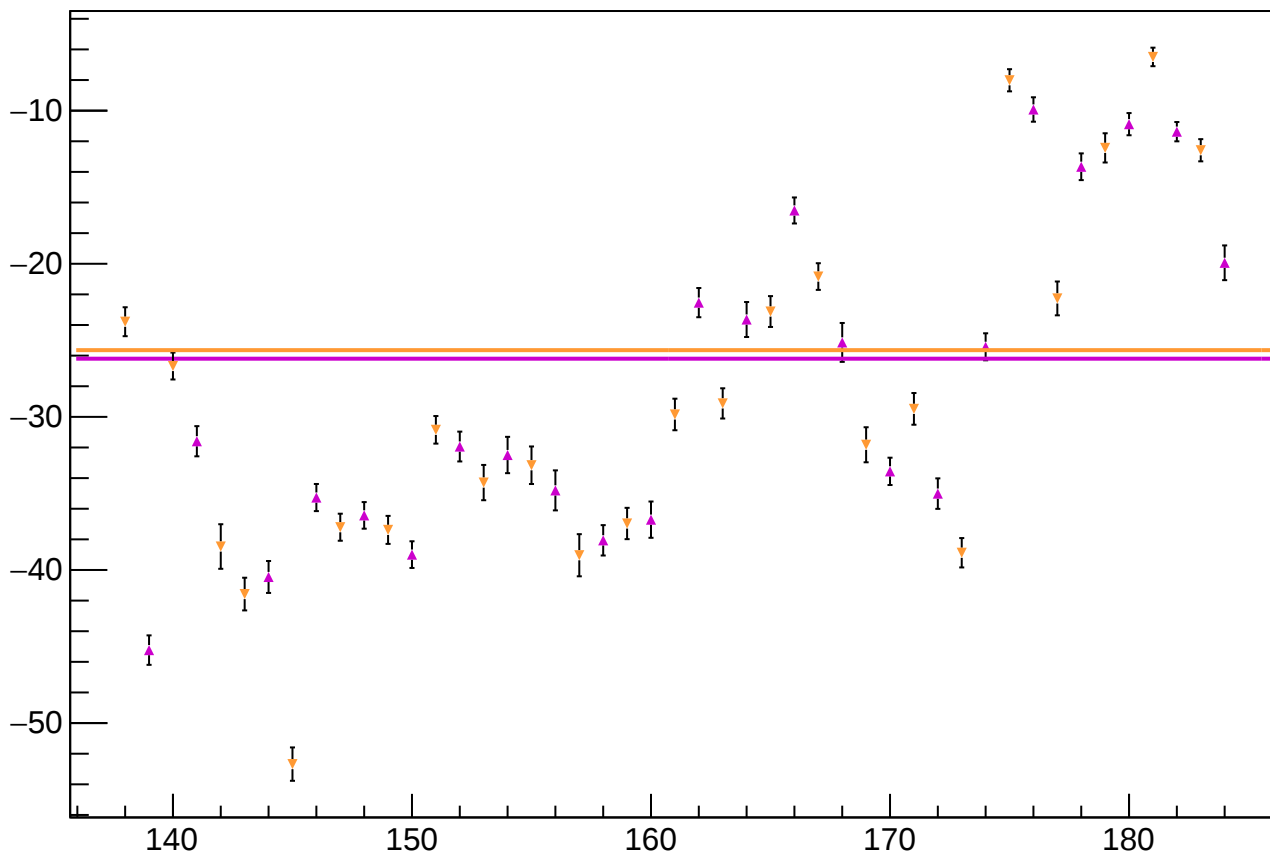
Left In:  $-19.448 \pm 0.008$   $\chi^2/\text{NDF}: 54039.2/22$

+ sign  $-19.908 \pm 0.007$   $\chi^2/\text{NDF}: 105502.2/40$

All:  $-19.759 \pm 0.005$   $\chi^2/\text{NDF}: 175337.6/81$

- sign  $-19.612 \pm 0.007$   $\chi^2/\text{NDF}: 69021.6/40$

# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.642+/-0.193  $\chi^2/\text{NDF}$ : 4022.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

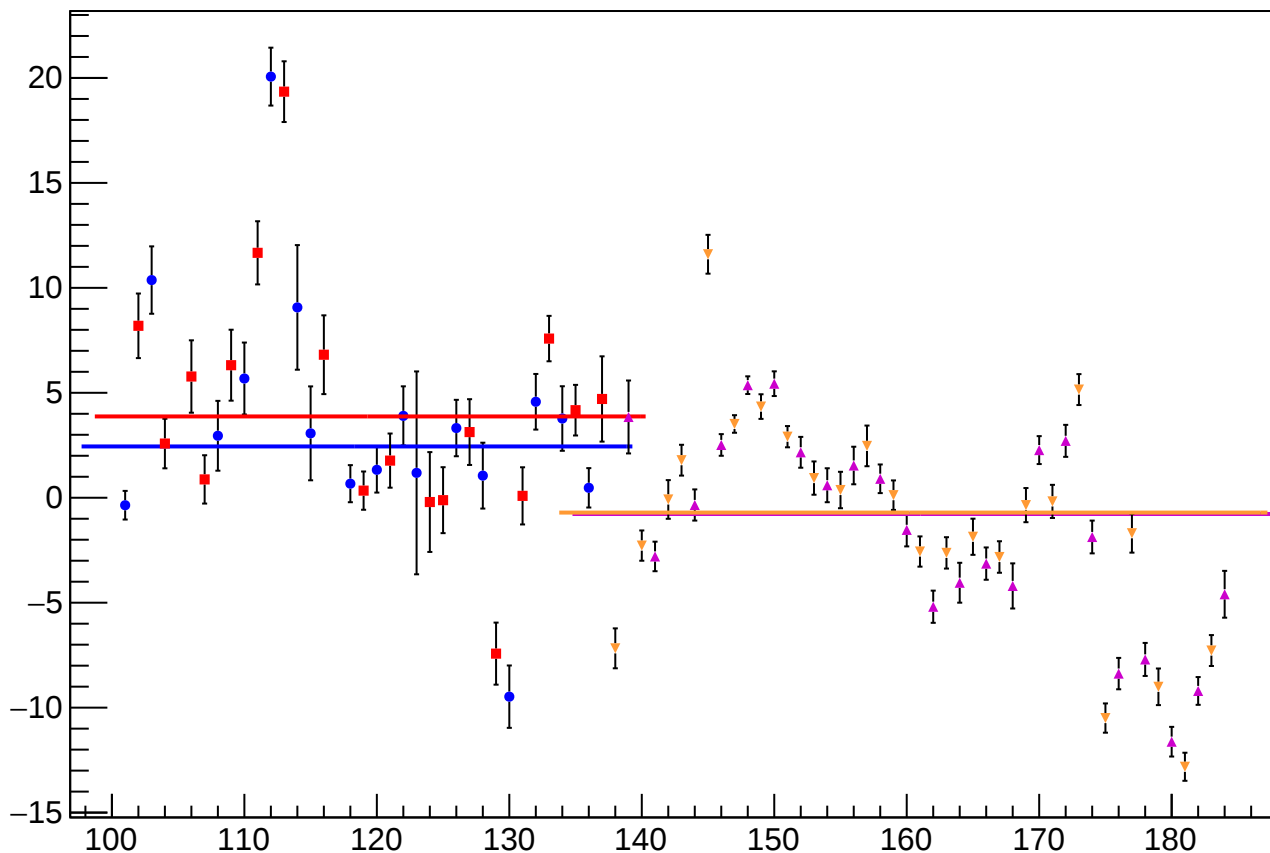
Left In: -26.200+/-0.194  $\chi^2/\text{NDF}$ : 3344.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -25.920+/-0.137  $\chi^2/\text{NDF}$ : 7371.1/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.444 \pm 0.312$   $\chi^2/\text{NDF}$ : 292.7/16

Left Out:  $-0.706 \pm 0.147$   $\chi^2/\text{NDF}$ : 1268.4/23

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

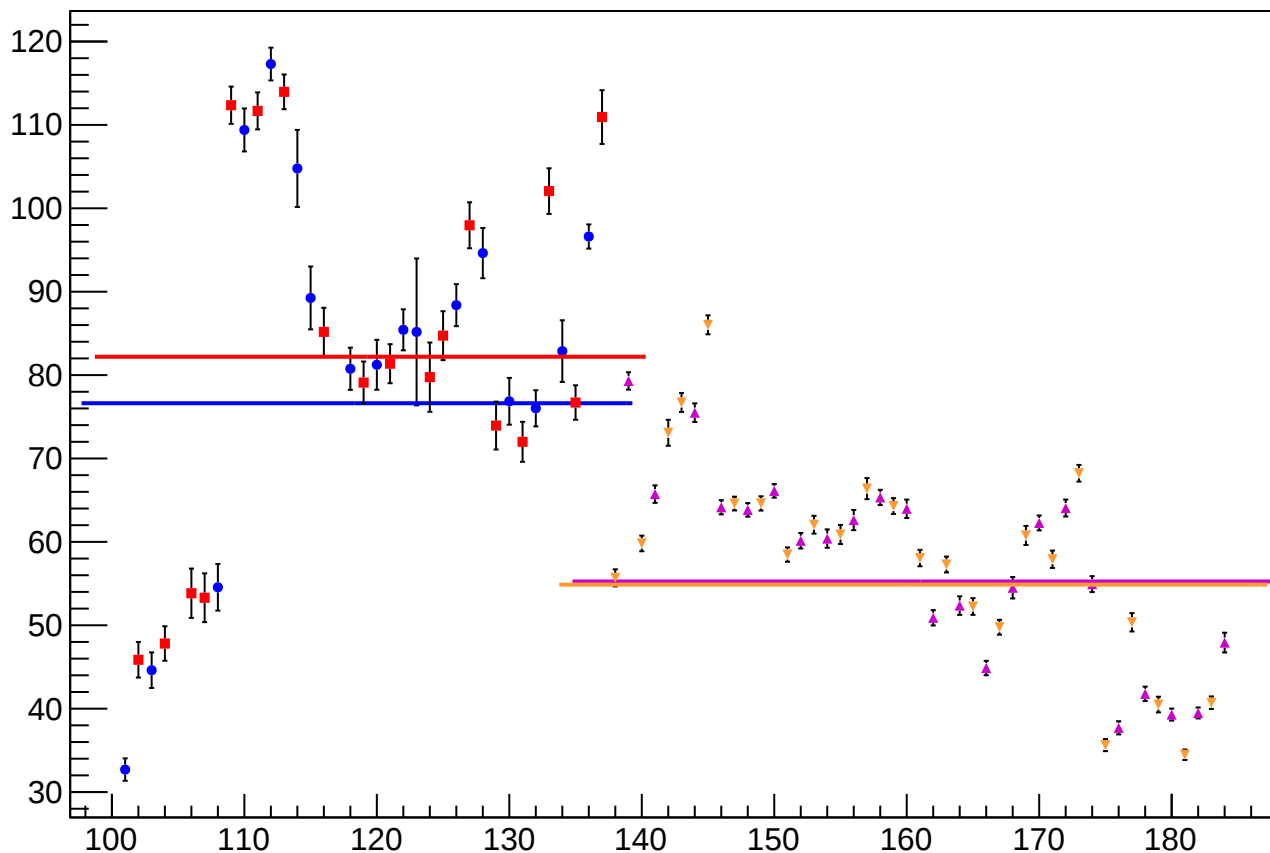
Left In:  $-0.773 \pm 0.150$   $\chi^2/\text{NDF}$ : 1111.4/22

+ sign  $-0.132 \pm 0.133$   $\chi^2/\text{NDF}$ : 1644.7/40

All:  $-0.050 \pm 0.095$   $\chi^2/\text{NDF}$ : 3192.1/81

- sign  $0.037 \pm 0.136$   $\chi^2/\text{NDF}$ : 1546.6/40

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 76.626 $\pm$ 0.574  $\chi^2$ /NDF: 2262.8/16

Left Out: 54.873 $\pm$ 0.193  $\chi^2$ /NDF: 4460.0/23

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

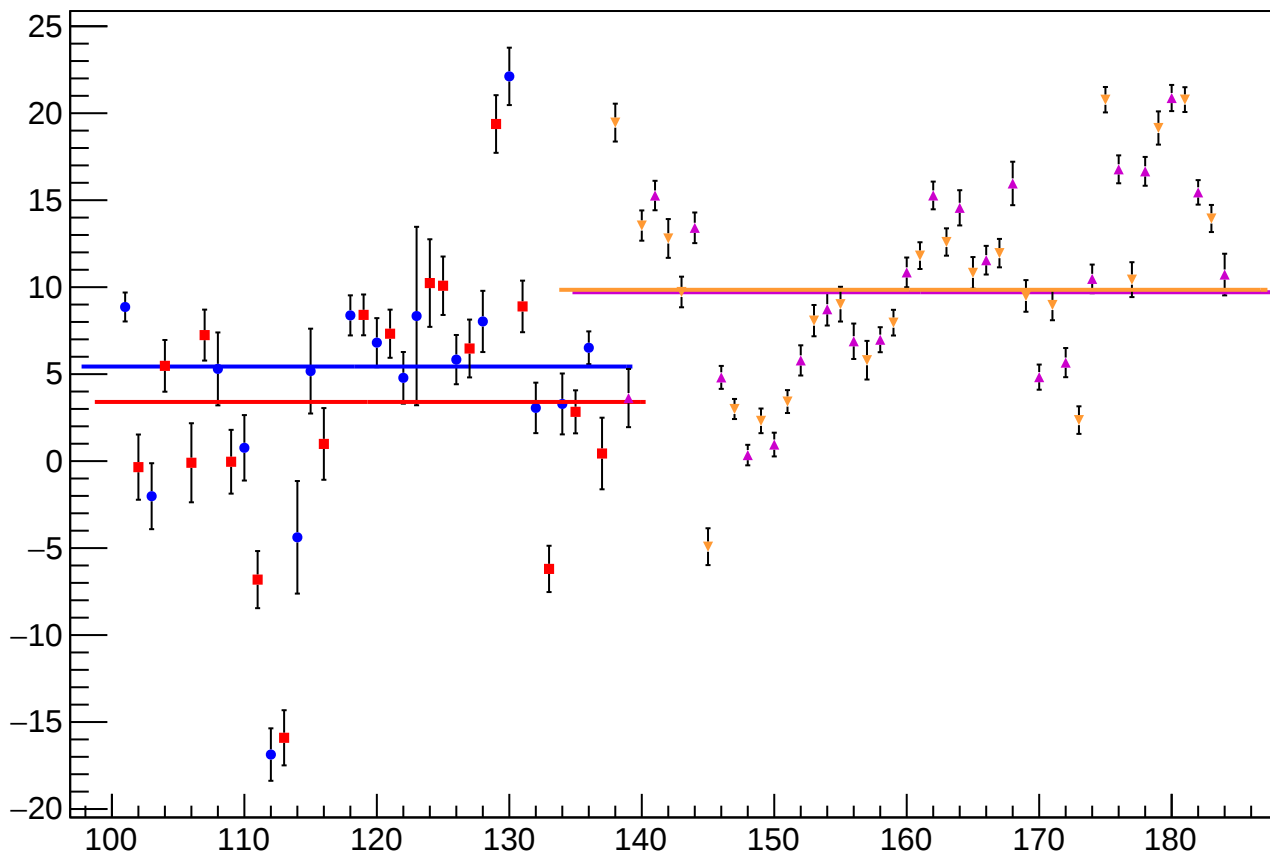
Left In: 55.252 $\pm$ 0.193  $\chi^2$ /NDF: 3786.2/22

+ sign 57.078 $\pm$ 0.183  $\chi^2$ /NDF: 8011.4/40

All: 57.454 $\pm$ 0.130  $\chi^2$ /NDF: 15224.1/81

- sign 57.832 $\pm$ 0.183  $\chi^2$ /NDF: 7204.3/40

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $5.437 \pm 0.358$   $\chi^2/\text{NDF}: 384.5/16$

Left Out:  $9.848 \pm 0.169$   $\chi^2/\text{NDF}: 1369.3/23$

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}: 420.9/17$

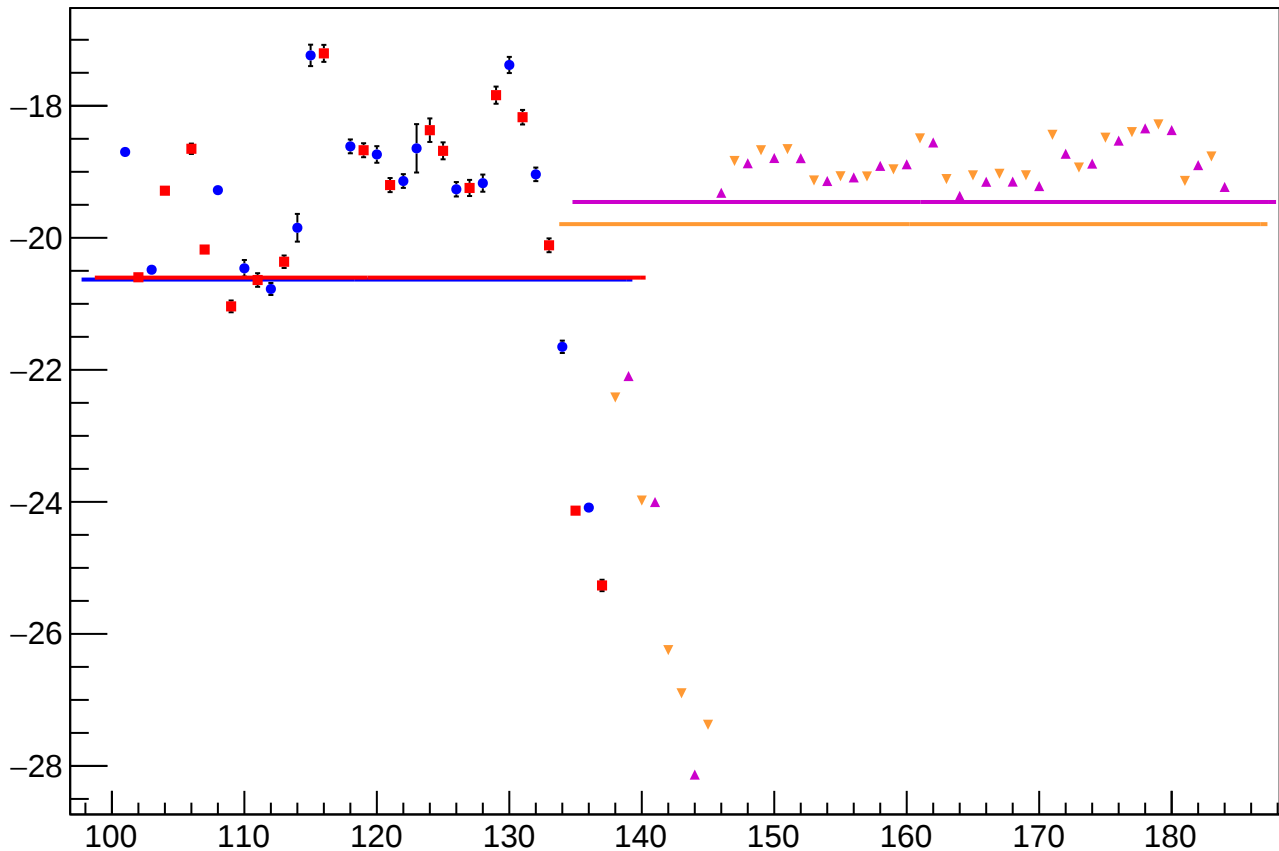
Left In:  $9.708 \pm 0.171$   $\chi^2/\text{NDF}: 1198.0/22$

+ sign  $9.045 \pm 0.153$   $\chi^2/\text{NDF}: 1878.0/40$

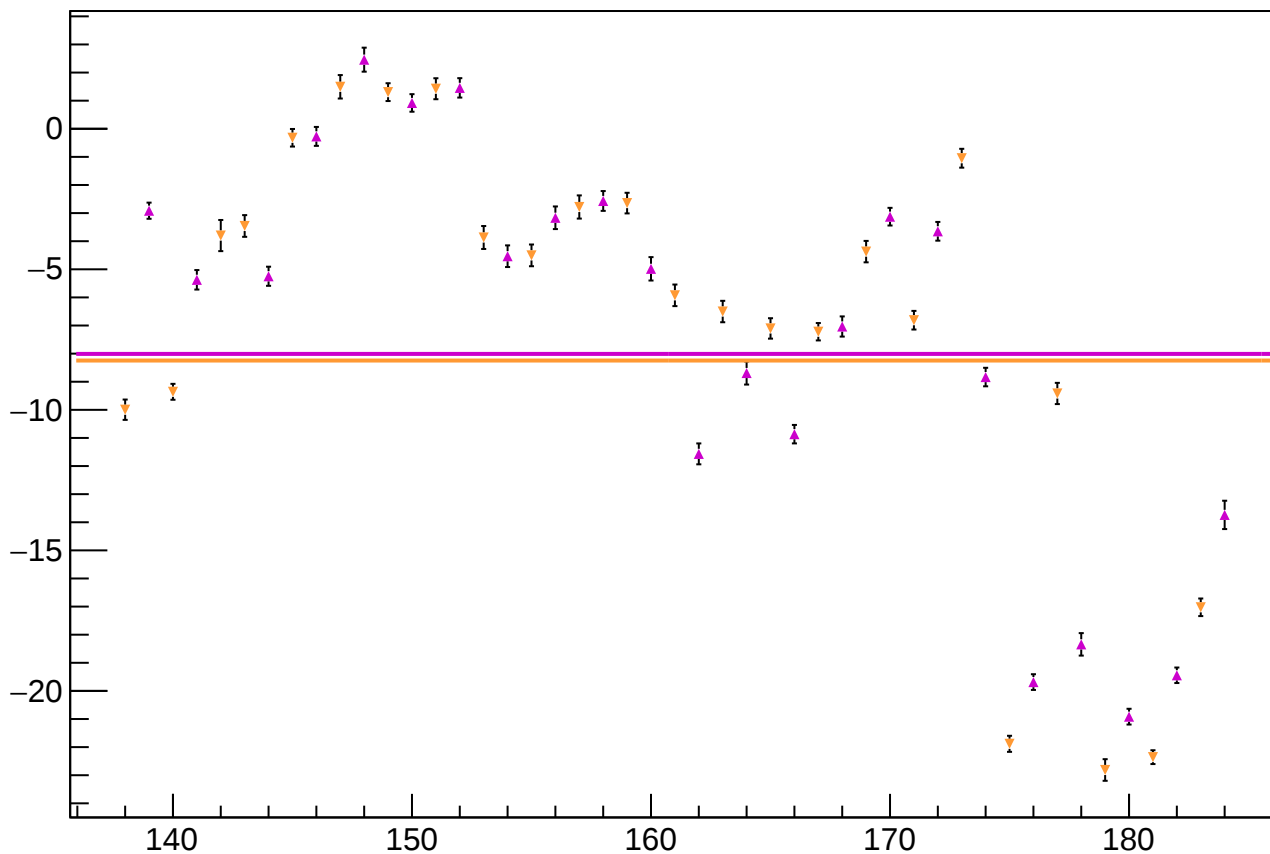
All:  $8.837 \pm 0.109$   $\chi^2/\text{NDF}: 3734.2/81$

- sign  $8.621 \pm 0.156$   $\chi^2/\text{NDF}: 1852.5/40$

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



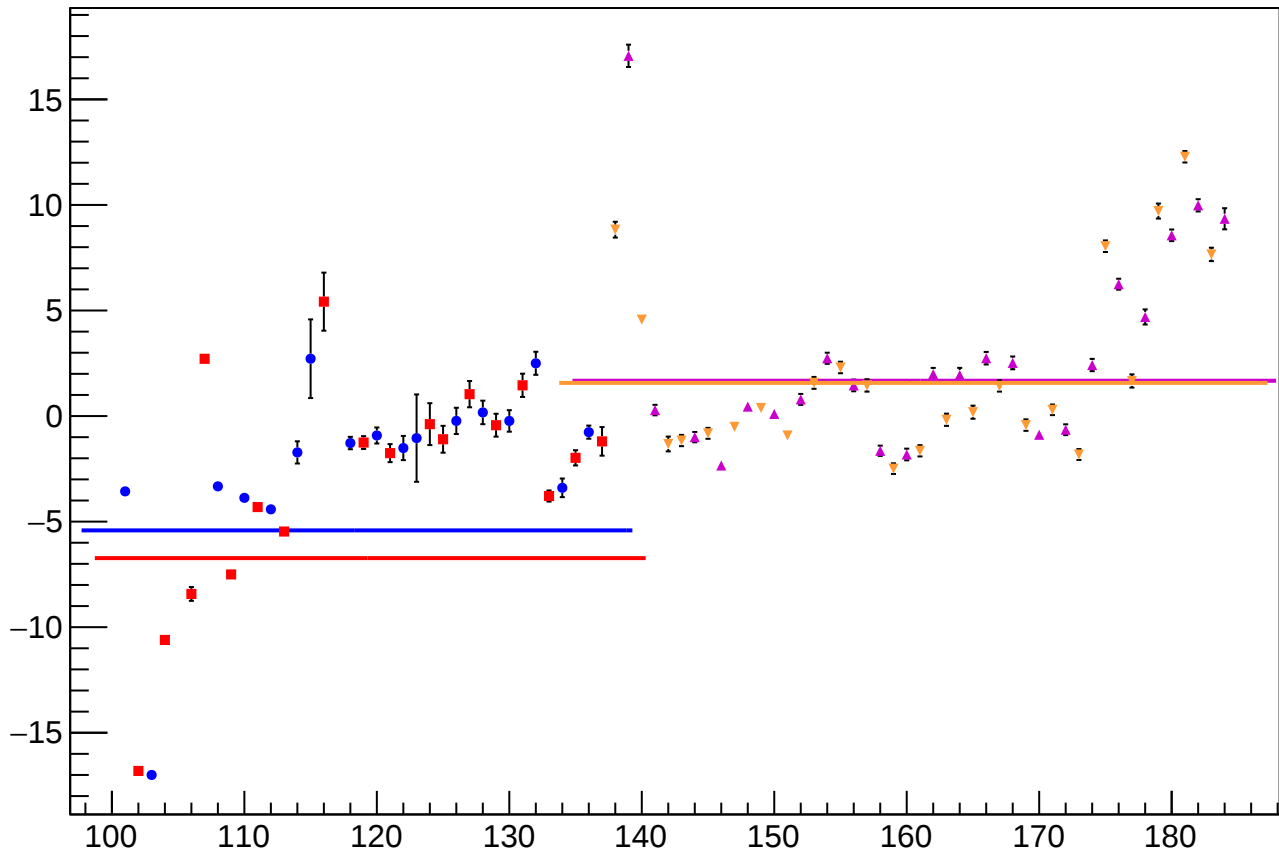
# reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -8.246 +/- 0.071  $\chi^2/\text{NDF}$ : 12104.2/23  
 Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.010 +/- 0.071  $\chi^2/\text{NDF}$ : 10631.2/22

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -8.128 +/- 0.050  $\chi^2/\text{NDF}$ : 22740.9/46  
 - sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-5.415 \pm 0.055$   $\chi^2/\text{NDF}$ : 9255.1/16

Left Out:  $1.571 \pm 0.055$   $\chi^2/\text{NDF}$ : 4784.5/23

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}$ : 11217.0/17

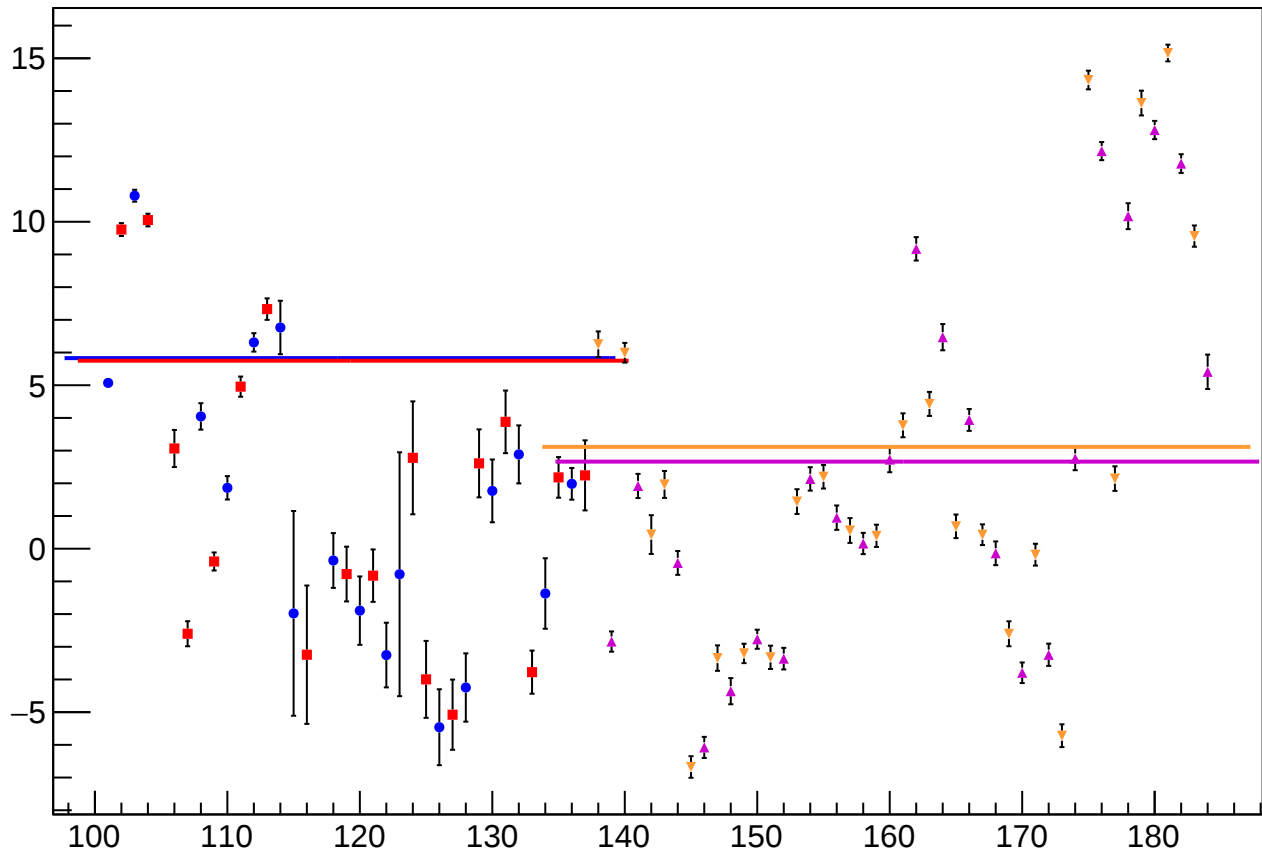
Left In:  $1.673 \pm 0.056$   $\chi^2/\text{NDF}$ : 4106.3/22

+ sign  $-1.921 \pm 0.039$   $\chi^2/\text{NDF}$ : 22180.9/40

All:  $-2.091 \pm 0.028$   $\chi^2/\text{NDF}$ : 47987.0/81

- sign  $-2.282 \pm 0.041$   $\chi^2/\text{NDF}$ : 25765.2/40

# reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $5.829 \pm 0.090$   $\chi^2/\text{NDF}$ : 1448.3/16

Left Out:  $3.114 \pm 0.071$   $\chi^2/\text{NDF}$ : 8284.8/23

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}$ : 2511.0/17

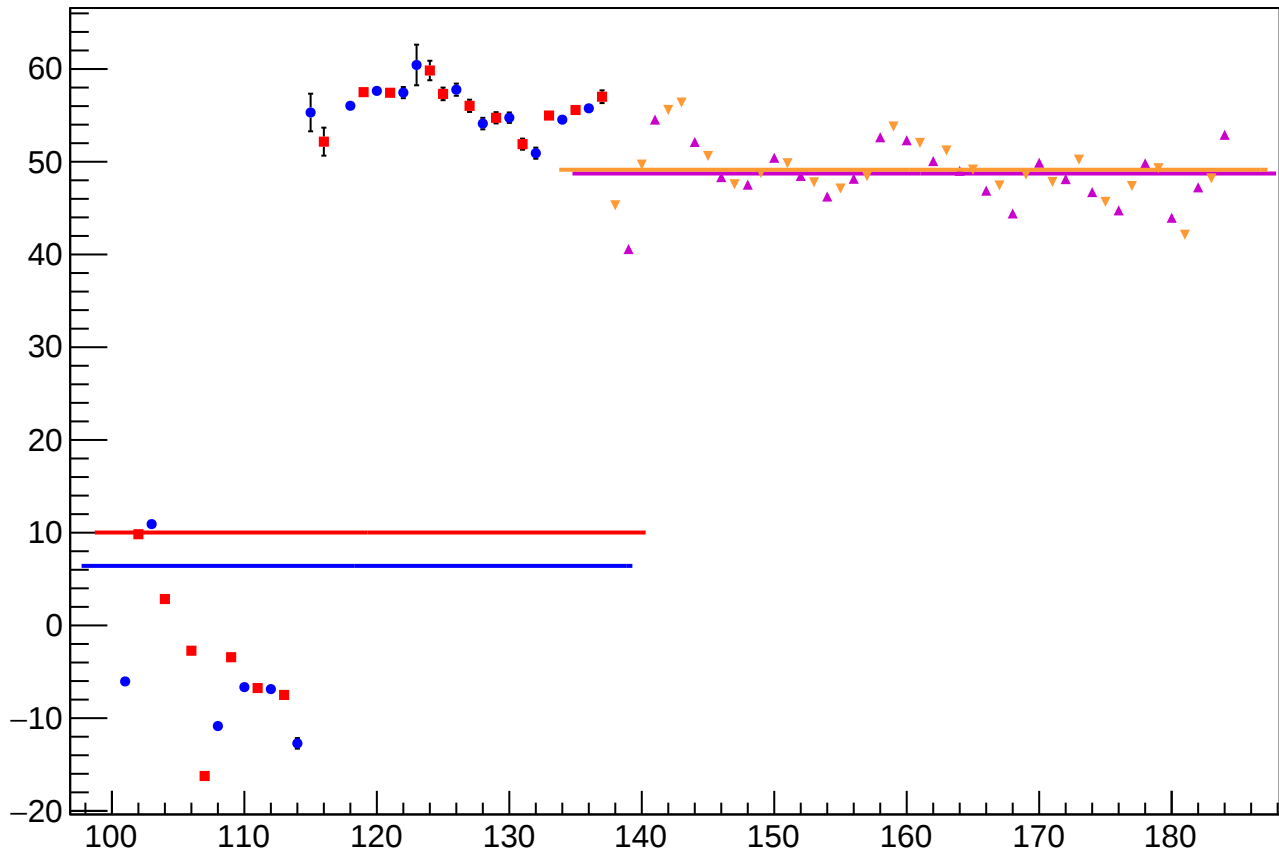
Left In:  $2.663 \pm 0.071$   $\chi^2/\text{NDF}$ : 7308.8/22

+ sign  $4.158 \pm 0.056$   $\chi^2/\text{NDF}$ : 10297.9/40

All:  $3.961 \pm 0.040$   $\chi^2/\text{NDF}$ : 20809.8/81

- sign  $3.752 \pm 0.057$   $\chi^2/\text{NDF}$ : 10485.9/40

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $6.421 \pm 0.065$   $\chi^2/\text{NDF}$ : 123109.7/16

Left Out:  $49.138 \pm 0.062$   $\chi^2/\text{NDF}$ : 2252.3/23

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}$ : 122082.4/17

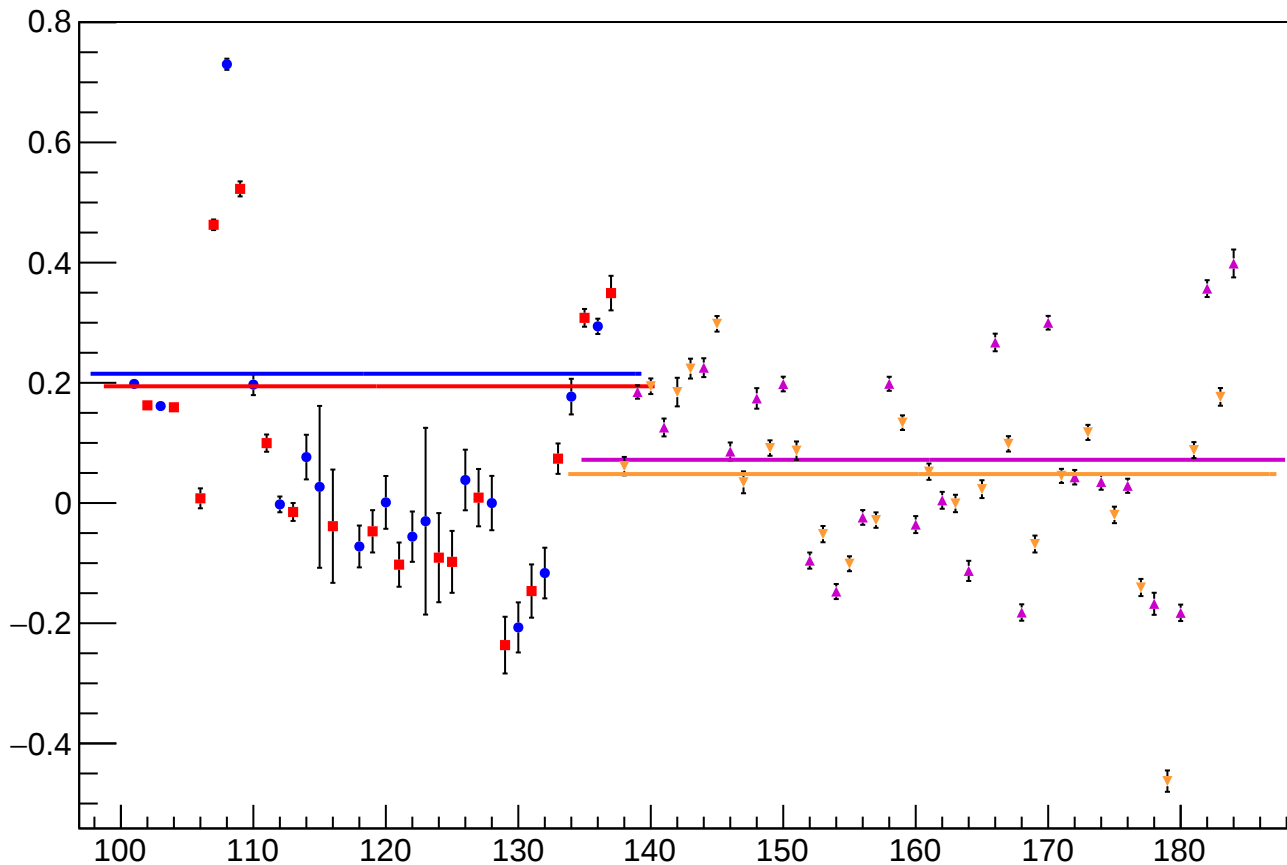
Left In:  $48.731 \pm 0.064$   $\chi^2/\text{NDF}$ : 2117.7/22

+ sign  $28.625 \pm 0.045$   $\chi^2/\text{NDF}$ : 351717.6/40

All:  $29.956 \pm 0.033$   $\chi^2/\text{NDF}$ : 643532.5/81

- sign  $31.435 \pm 0.047$   $\chi^2/\text{NDF}$ : 289955.5/40

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 3927.2/16

Left Out: 0.048 $\pm$ 0.003  $\chi^2$ /NDF: 2187.0/23

Right Out: 0.194 $\pm$ 0.003  $\chi^2$ /NDF: 2520.1/17

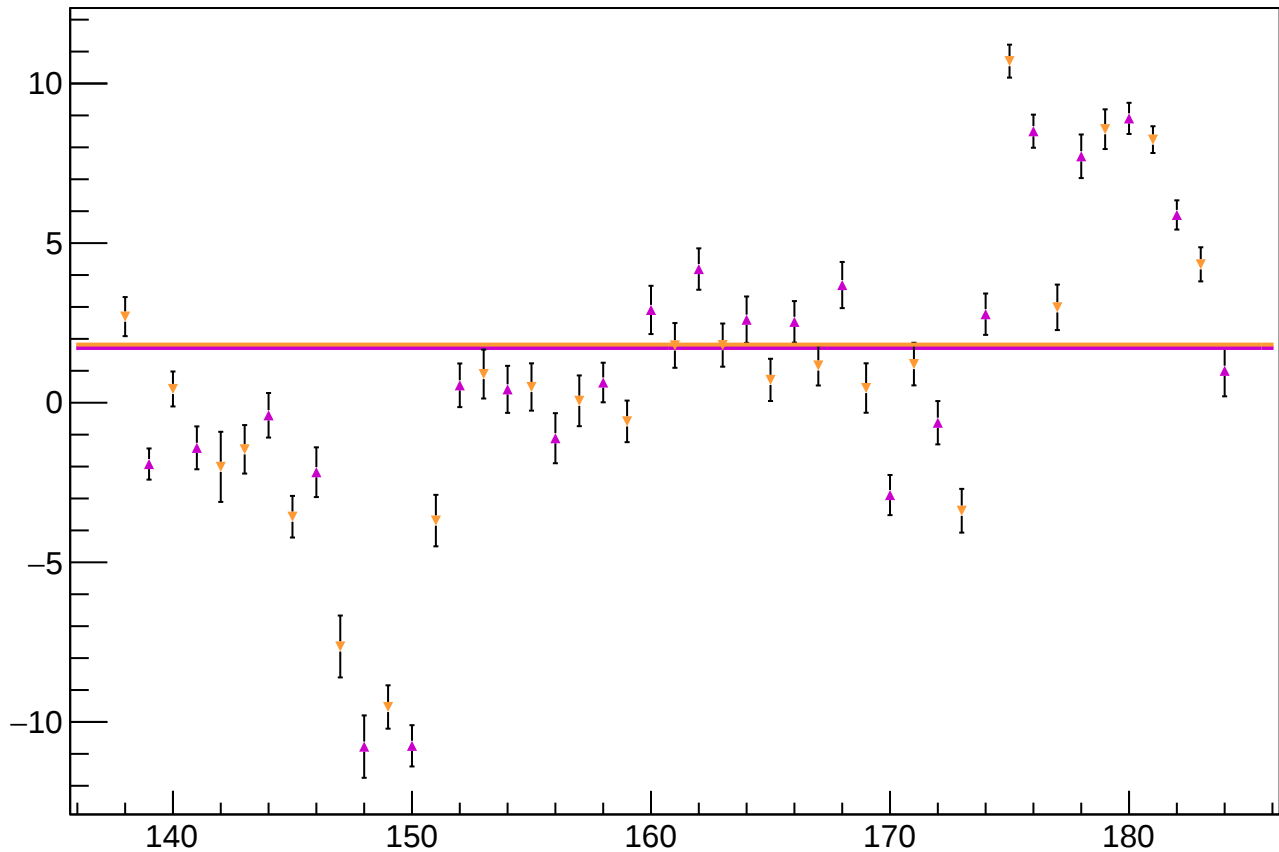
Left In: 0.072 $\pm$ 0.003  $\chi^2$ /NDF: 3272.0/22

+ sign 0.134 $\pm$ 0.002  $\chi^2$ /NDF: 7876.8/40

All: 0.135 $\pm$ 0.001  $\chi^2$ /NDF: 14624.7/81

- sign 0.135 $\pm$ 0.002  $\chi^2$ /NDF: 6747.8/40

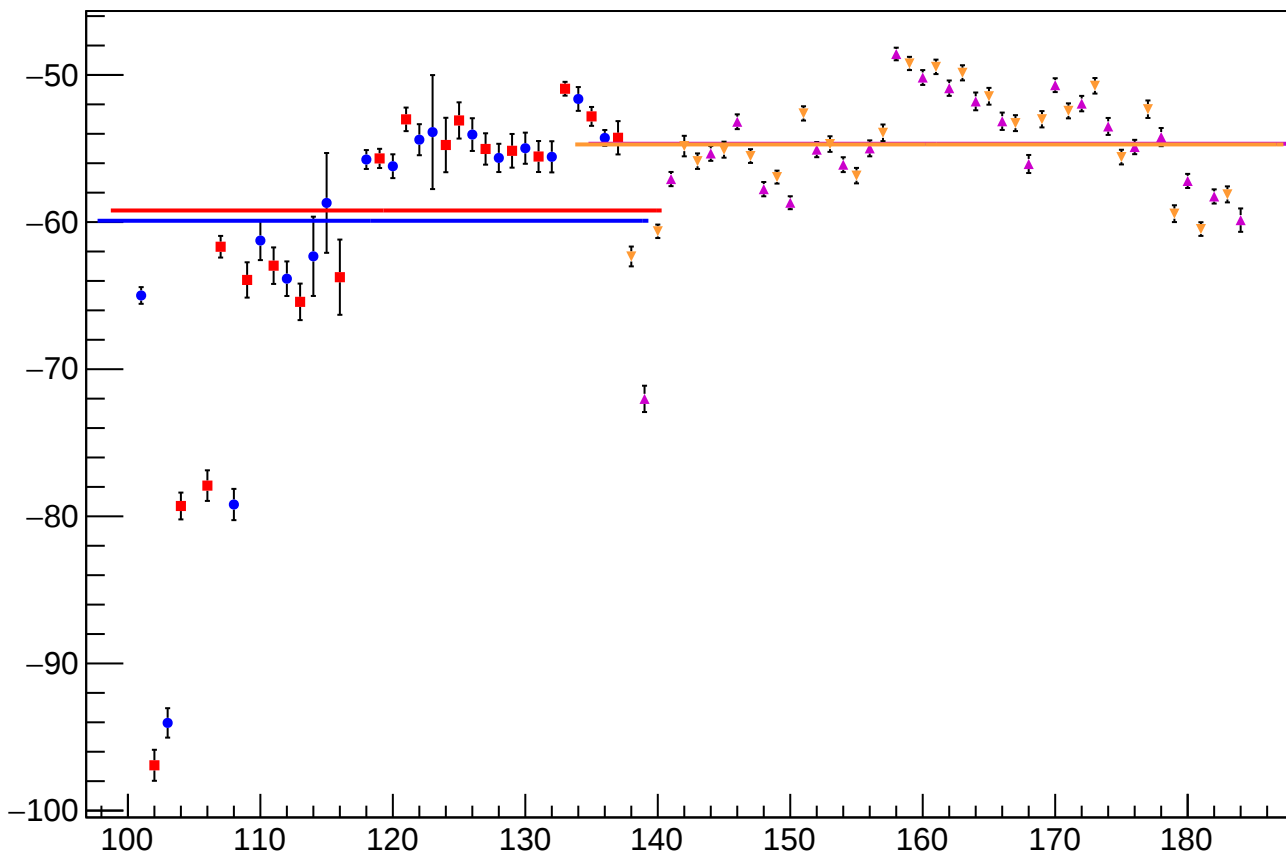
# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 1.821 $\pm$ 0.134  $\chi^2$ /NDF:1291.1/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.715 $\pm$ 0.134  $\chi^2$ /NDF:1313.5/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.768 $\pm$ 0.095  $\chi^2$ /NDF: 2605.0/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-59.911 \pm 0.223$   $\chi^2/\text{NDF}$ : 1980.8/16

Left Out:  $-54.723 \pm 0.106$   $\chi^2/\text{NDF}$ : 1124.4/23

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

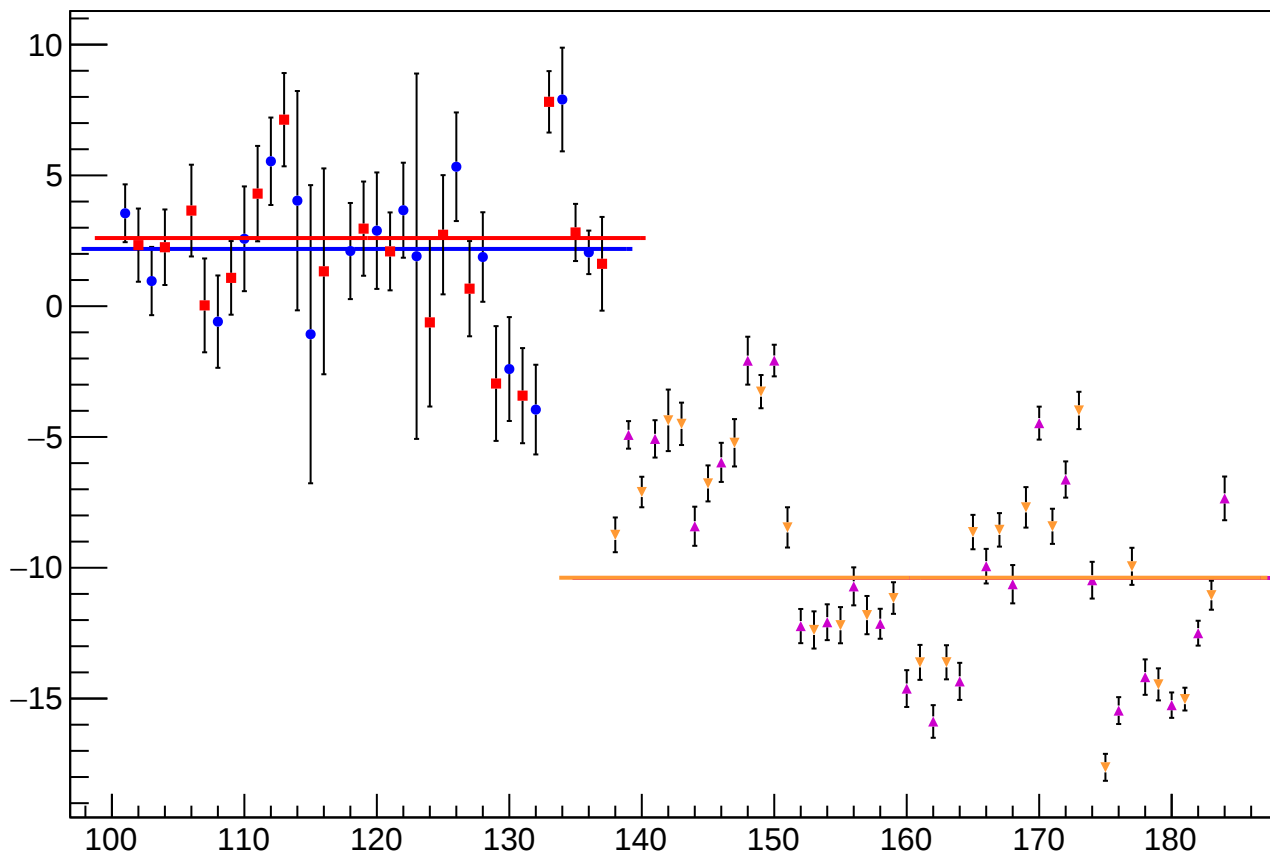
Left In:  $-54.677 \pm 0.109$   $\chi^2/\text{NDF}$ : 1140.6/22

+ sign  $-55.685 \pm 0.096$   $\chi^2/\text{NDF}$ : 3545.3/40

All:  $-55.657 \pm 0.068$   $\chi^2/\text{NDF}$ : 7789.3/81

- sign  $-55.629 \pm 0.097$   $\chi^2/\text{NDF}$ : 4243.9/40

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $2.189 \pm 0.405$   $\chi^2/\text{NDF}$ : 39.1/16

Left Out:  $-10.381 \pm 0.134$   $\chi^2/\text{NDF}$ : 850.2/23

Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}$ : 50.8/17

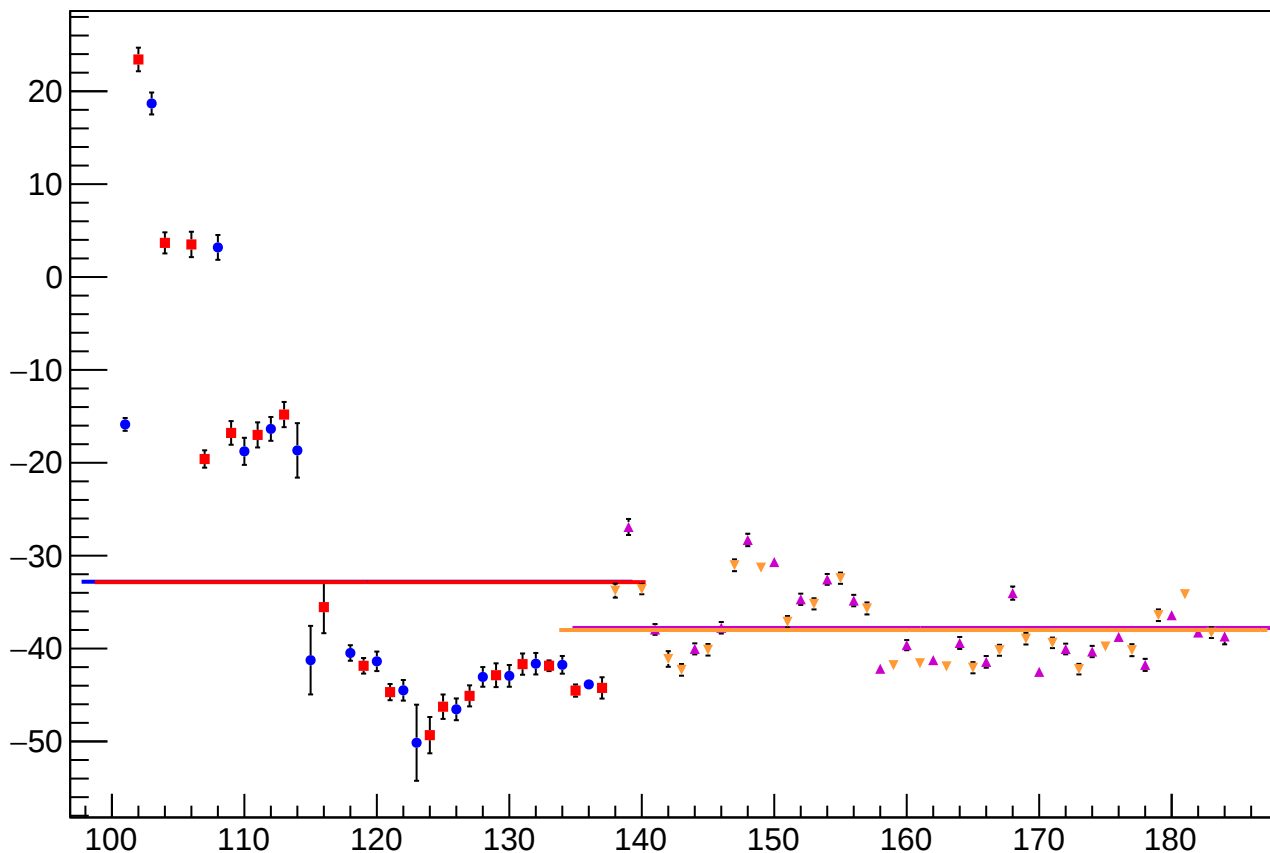
Left In:  $-10.391 \pm 0.134$   $\chi^2/\text{NDF}$ : 1024.8/22

+ sign  $-9.139 \pm 0.127$   $\chi^2/\text{NDF}$ : 1759.4/40

All:  $-9.084 \pm 0.090$   $\chi^2/\text{NDF}$ : 3824.9/81

- sign  $-9.029 \pm 0.127$   $\chi^2/\text{NDF}$ : 2065.1/40

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.806 \pm 0.254$   $\chi^2/\text{NDF}: 4662.8/16$

Left Out:  $-38.005 \pm 0.120$   $\chi^2/\text{NDF}: 945.8/23$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

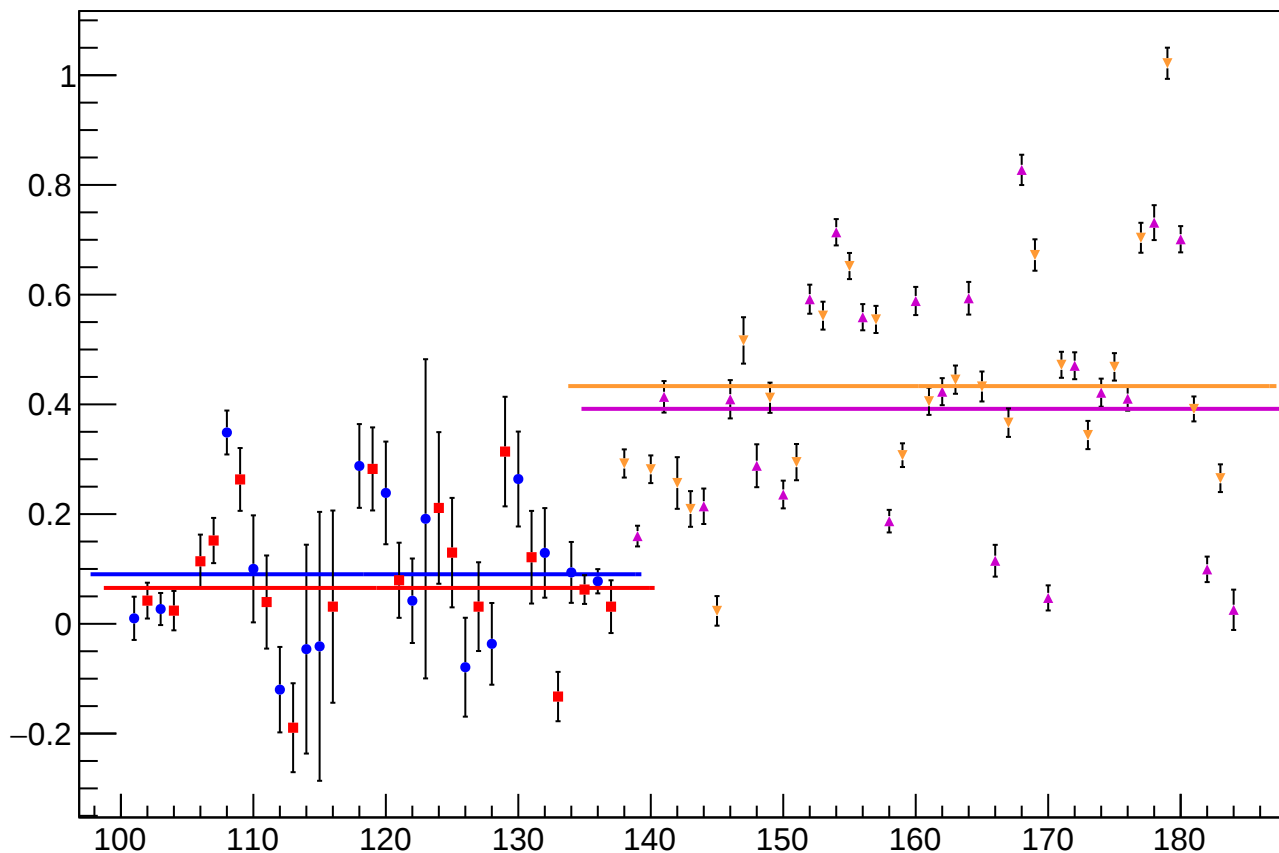
Left In:  $-37.784 \pm 0.122$   $\chi^2/\text{NDF}: 1079.7/22$

+ sign  $-37.062 \pm 0.108$   $\chi^2/\text{NDF}: 5950.7/40$

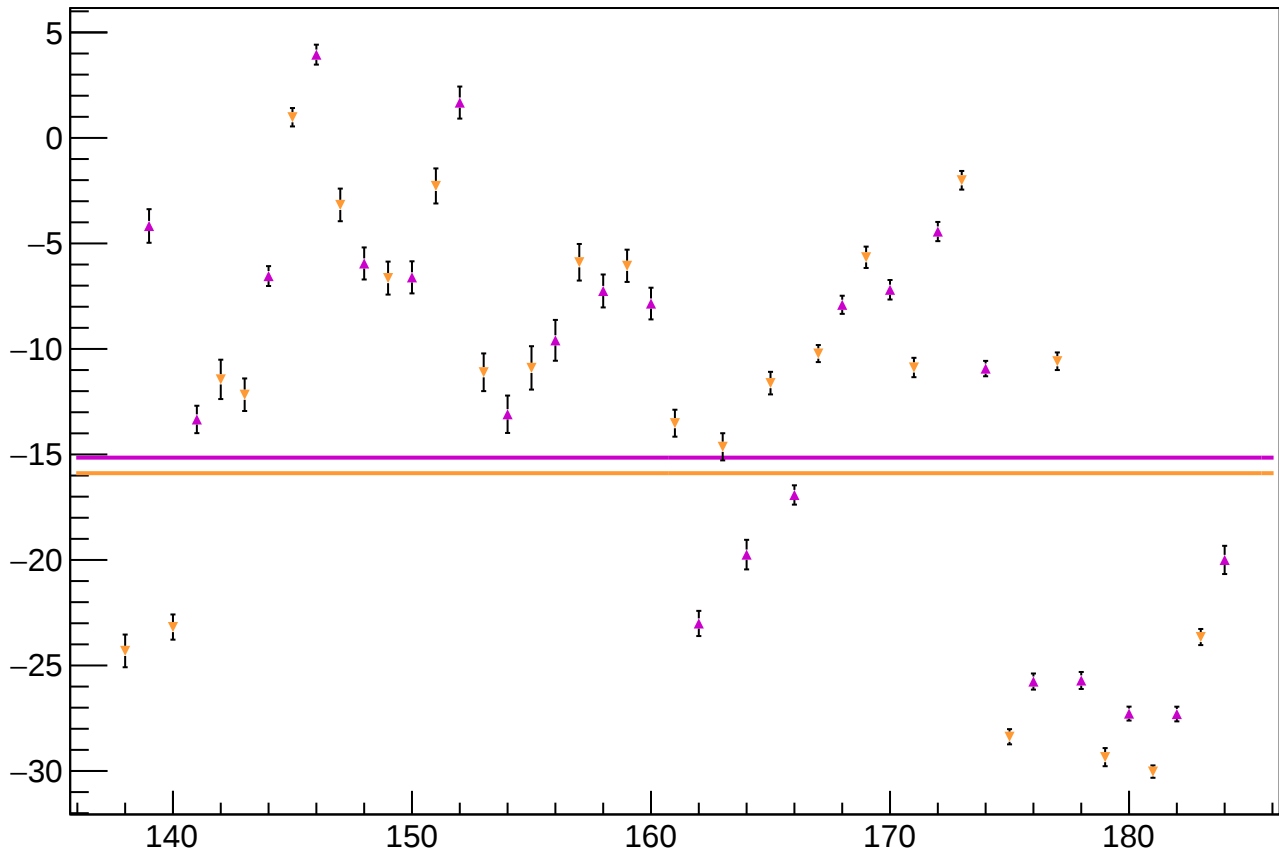
All:  $-36.932 \pm 0.077$   $\chi^2/\text{NDF}: 13110.0/81$

- sign  $-36.801 \pm 0.109$   $\chi^2/\text{NDF}: 7156.4/40$

# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



# reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -15.888 +/- 0.107  $\chi^2/\text{NDF}$ : 9710.0/23

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

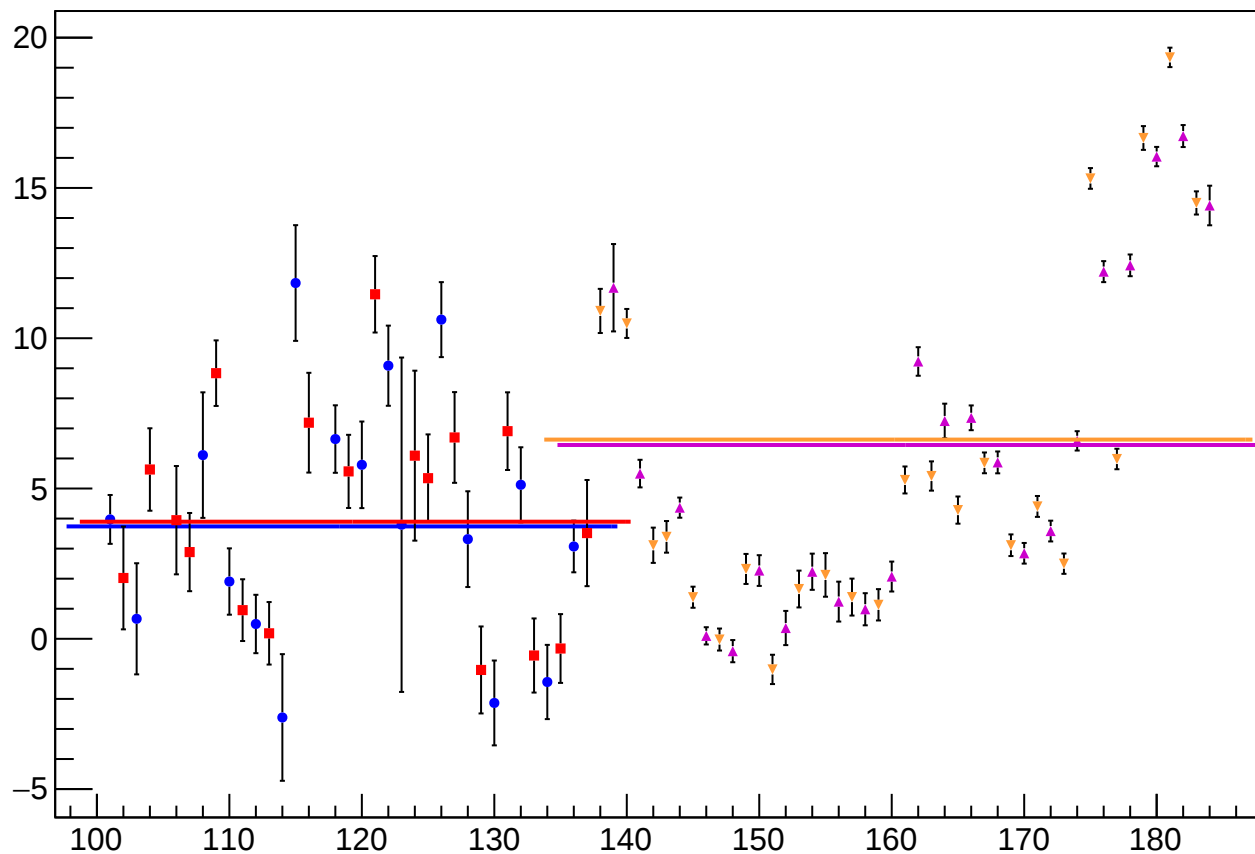
Left In: -15.151 +/- 0.106  $\chi^2/\text{NDF}$ : 8744.3/22

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.518 +/- 0.075  $\chi^2/\text{NDF}$ : 18478.3/46

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.739 $\pm$ 0.309  $\chi^2$ /NDF: 136.9/16

Left Out: 6.628 $\pm$ 0.086  $\chi^2$ /NDF: 4913.4/23

Right Out: 3.896 $\pm$ 0.316  $\chi^2$ /NDF: 134.9/17

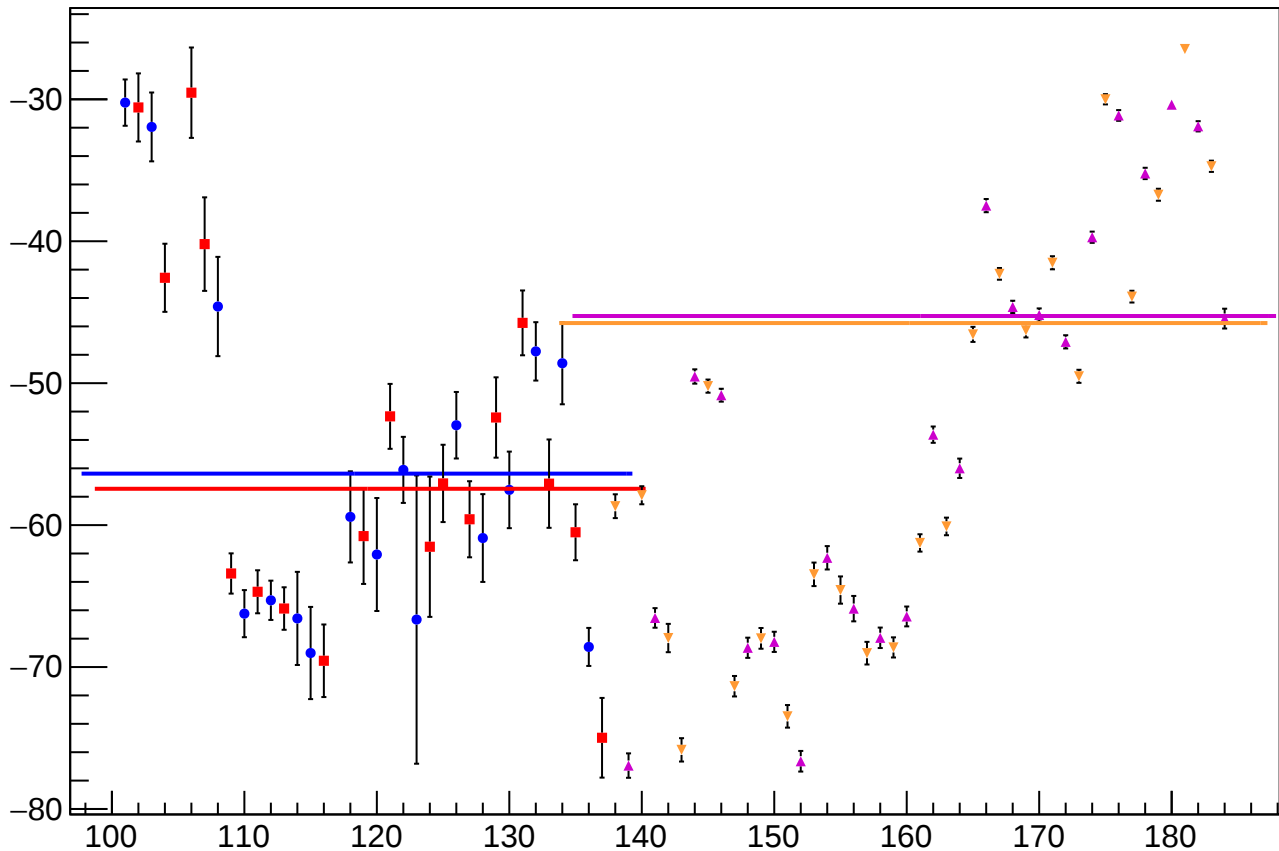
Left In: 6.448 $\pm$ 0.086  $\chi^2$ /NDF: 3955.6/22

+ sign 6.419 $\pm$ 0.083  $\chi^2$ /NDF: 5131.3/40

All: 6.346 $\pm$ 0.059  $\chi^2$ /NDF: 9284.0/81

- sign 6.273 $\pm$ 0.083  $\chi^2$ /NDF: 4151.1/40

# reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-56.373 \pm 0.543$   $\chi^2/\text{NDF}: 587.6/16$

Left Out:  $-45.764 \pm 0.107$   $\chi^2/\text{NDF}: 17199.0/23$

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}: 441.0/17$

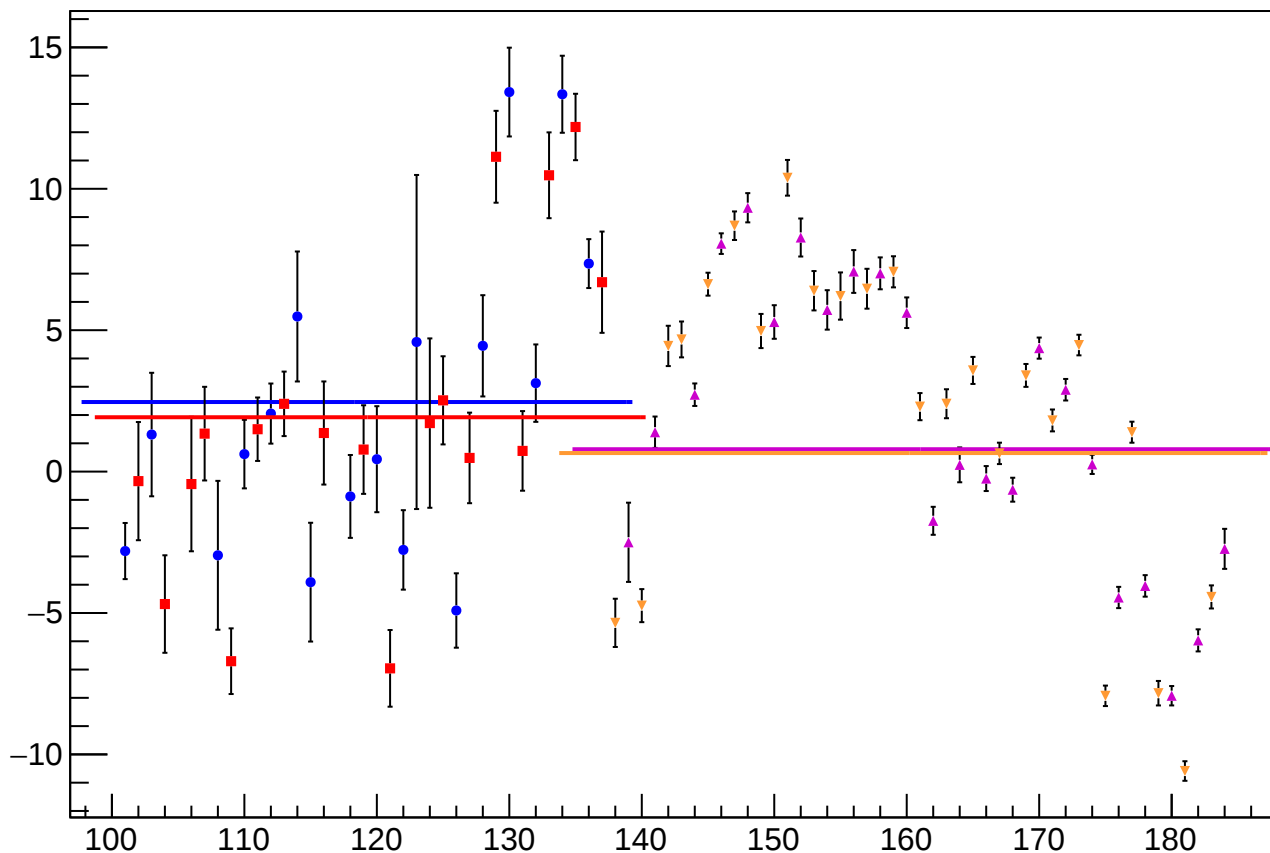
Left In:  $-45.268 \pm 0.107$   $\chi^2/\text{NDF}: 15775.7/22$

+ sign  $-46.164 \pm 0.105$   $\chi^2/\text{NDF}: 18154.0/40$

All:  $-45.946 \pm 0.074$   $\chi^2/\text{NDF}: 34873.5/81$

- sign  $-45.731 \pm 0.105$   $\chi^2/\text{NDF}: 16711.0/40$

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.460 $\pm$ 0.346  $\chi^2$ /NDF: 243.9/16

Left Out: 0.656 $\pm$ 0.097  $\chi^2$ /NDF:3666.3/23

Right Out: 1.922 $\pm$ 0.355  $\chi^2$ /NDF: 265.1/17

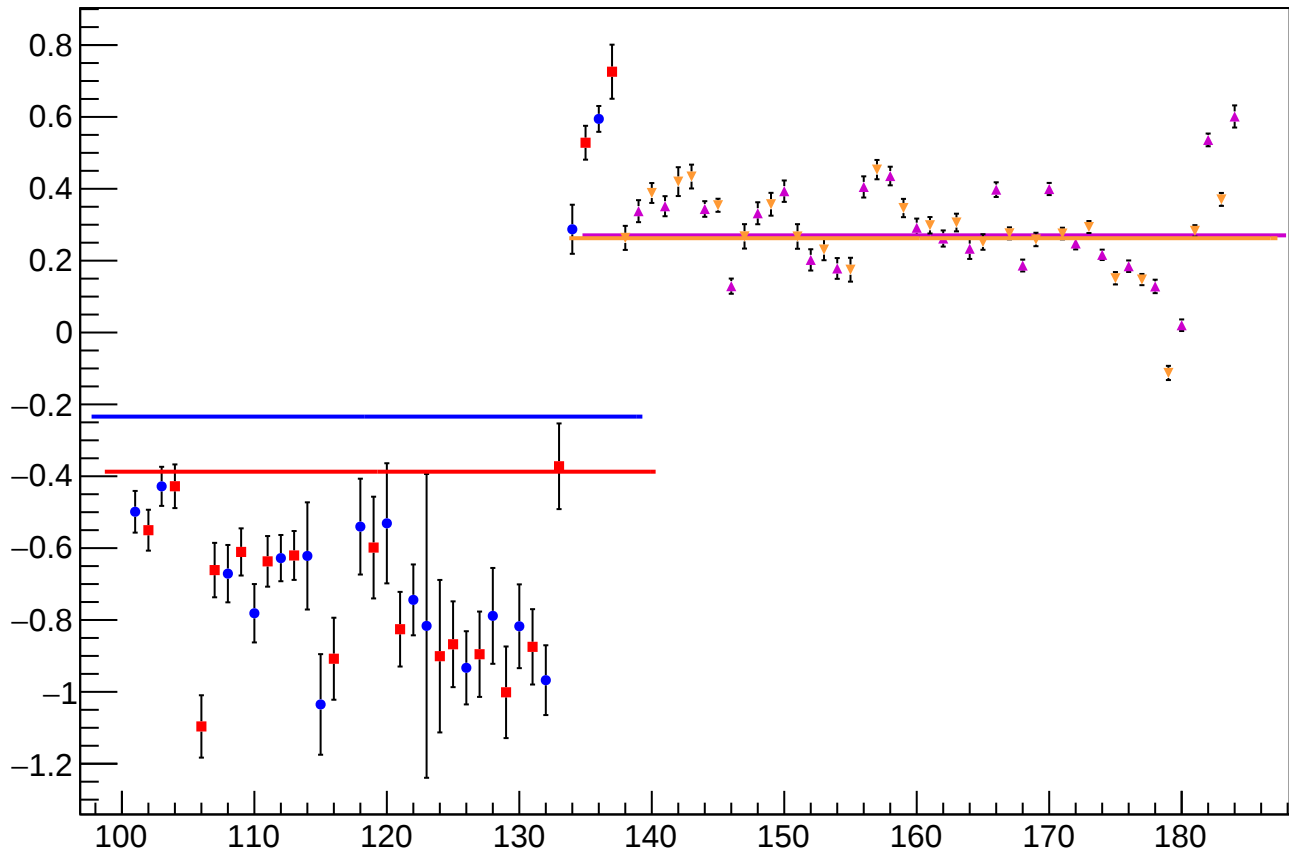
Left In: 0.791 $\pm$ 0.096  $\chi^2$ /NDF:2697.7/22

+ sign 0.786 $\pm$ 0.093  $\chi^2$ /NDF: 3935.5/40

All: 0.827 $\pm$ 0.066  $\chi^2$ /NDF: 6908.1/81

- sign 0.868 $\pm$ 0.093  $\chi^2$ /NDF: 2972.3/40

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.234 \pm 0.019$   $\chi^2/\text{NDF}$ : 958.3/16

Left Out:  $0.262 \pm 0.004$   $\chi^2/\text{NDF}$ : 670.8/23

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

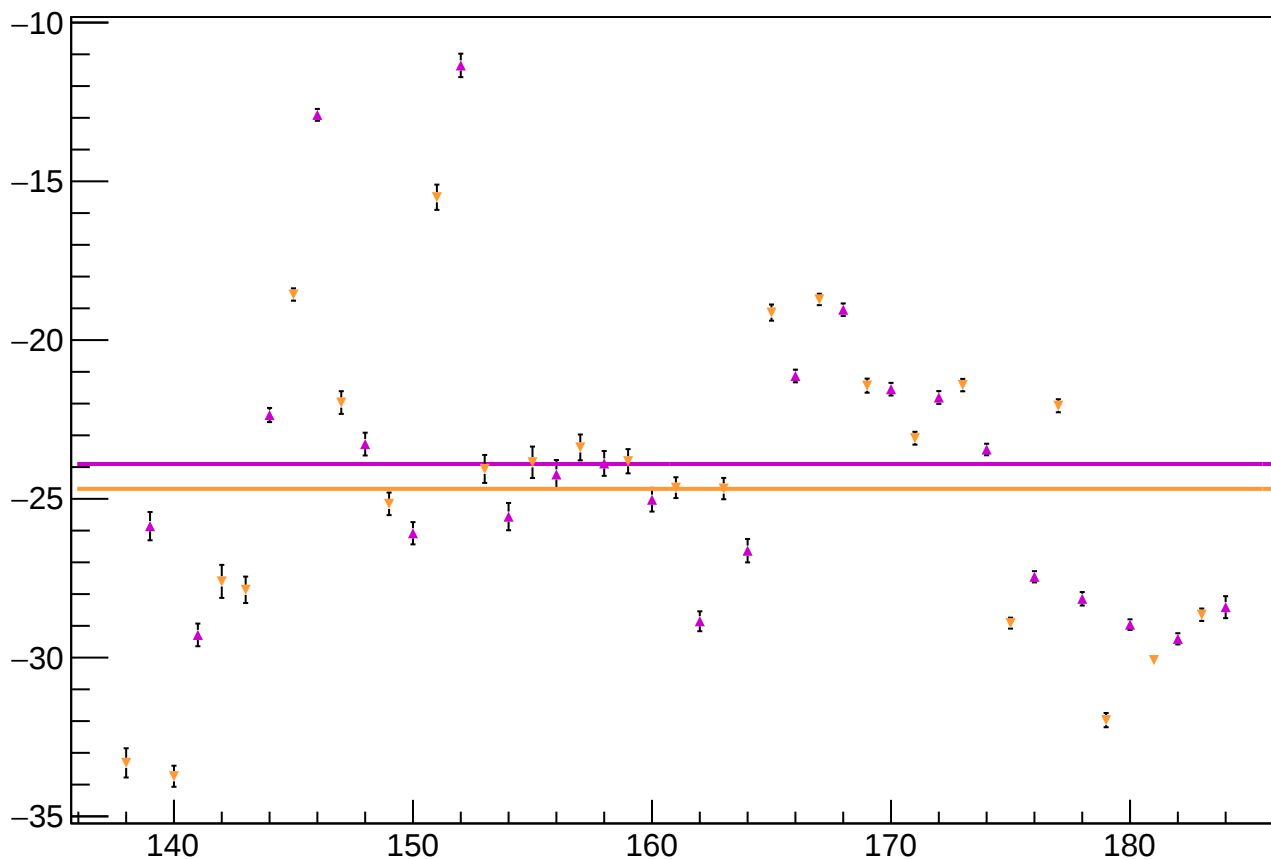
Left In:  $0.270 \pm 0.004$   $\chi^2/\text{NDF}$ : 973.5/22

+ sign  $0.237 \pm 0.004$   $\chi^2/\text{NDF}$ : 2283.6/40

All:  $0.237 \pm 0.003$   $\chi^2/\text{NDF}$ : 5240.4/81

- sign  $0.237 \pm 0.004$   $\chi^2/\text{NDF}$ : 2956.8/40

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-24.685 \pm 0.052$   $\chi^2/\text{NDF}$ : 8406.9/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

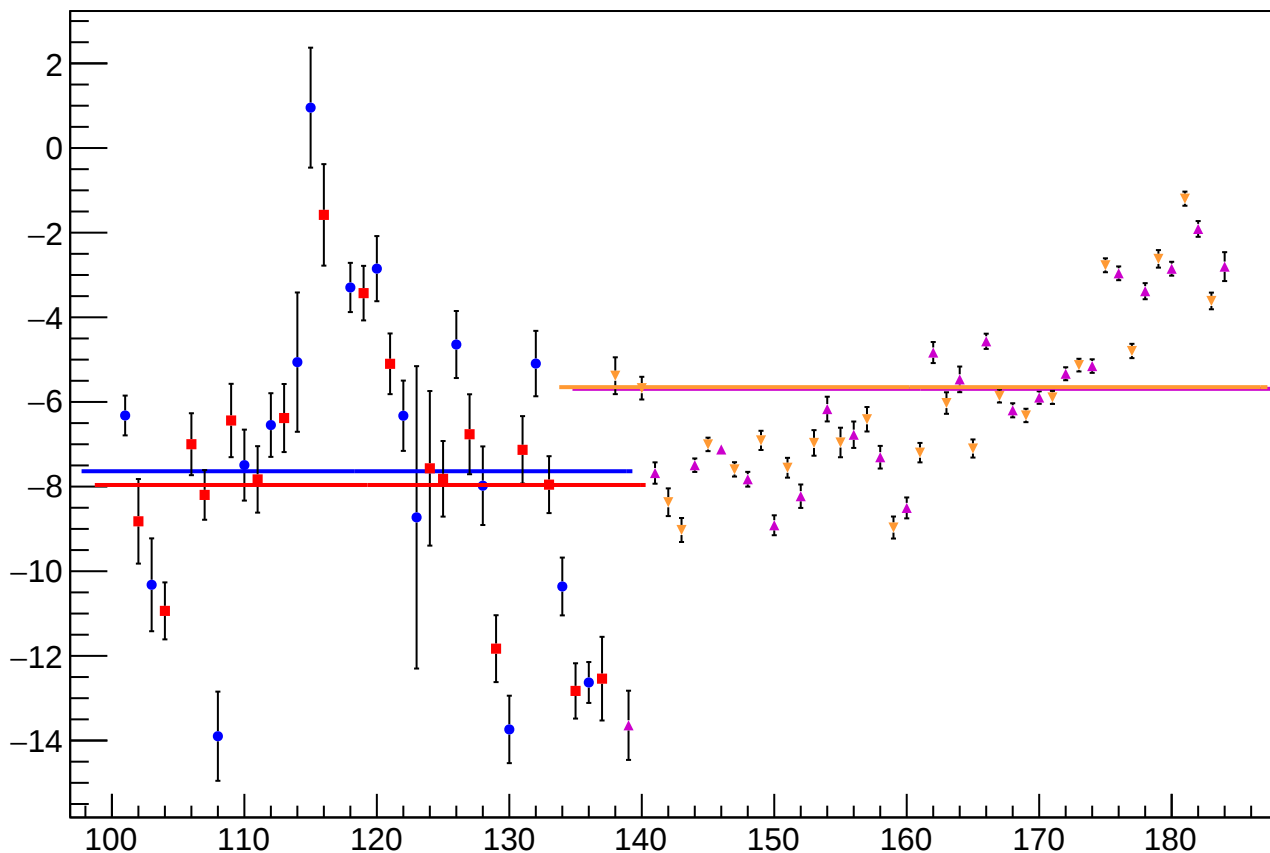
Left In:  $-23.902 \pm 0.051$   $\chi^2/\text{NDF}$ : 9158.9/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-24.288 \pm 0.036$   $\chi^2/\text{NDF}$ : 17682.7/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.637 \pm 0.186$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-5.650 \pm 0.042$   $\chi^2/\text{NDF}$ : 2205.3/23

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

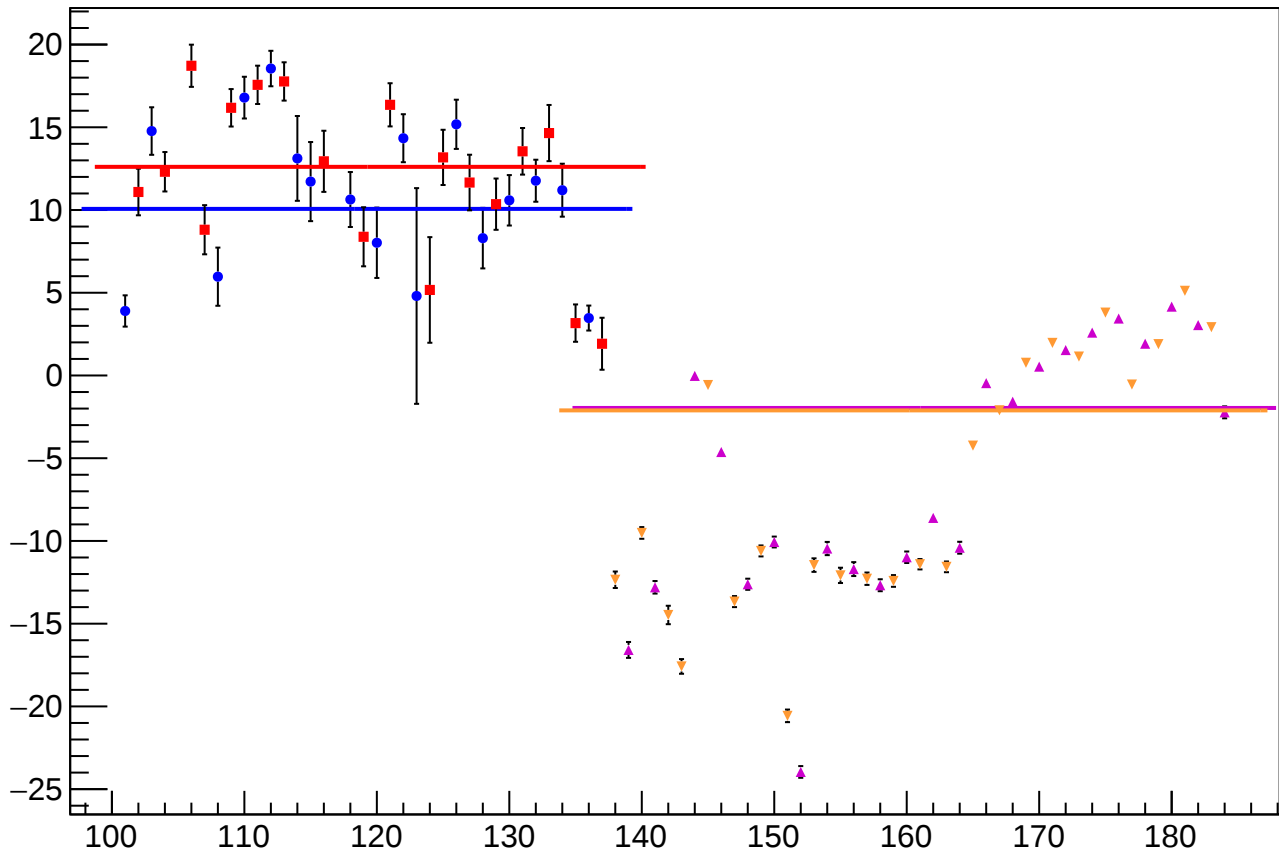
Left In:  $-5.690 \pm 0.041$   $\chi^2/\text{NDF}$ : 2328.2/22

+ sign  $-5.744 \pm 0.041$   $\chi^2/\text{NDF}$ : 2708.1/40

All:  $-5.769 \pm 0.028$   $\chi^2/\text{NDF}$ : 5406.3/81

- sign  $-5.793 \pm 0.040$   $\chi^2/\text{NDF}$ : 2697.5/40

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $10.068 \pm 0.337$   $\chi^2/\text{NDF}$ : 253.6/16

Left Out:  $-2.110 \pm 0.052$   $\chi^2/\text{NDF}$ : 16299.2/23

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}$ : 219.0/17

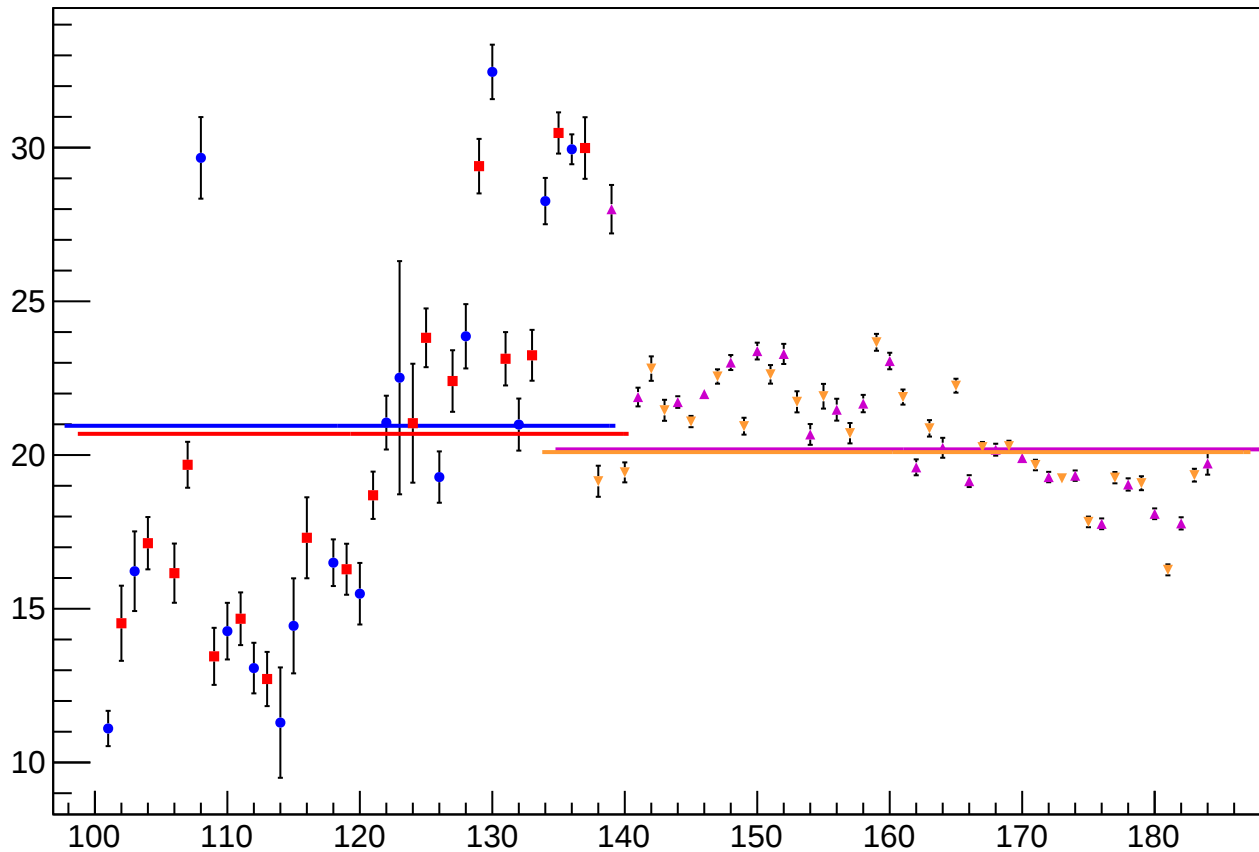
Left In:  $-1.963 \pm 0.051$   $\chi^2/\text{NDF}$ : 15492.9/22

+ sign  $-1.828 \pm 0.051$   $\chi^2/\text{NDF}$ : 17825.2/40

All:  $-1.726 \pm 0.036$   $\chi^2/\text{NDF}$ : 35414.6/81

- sign  $-1.629 \pm 0.050$   $\chi^2/\text{NDF}$ : 17581.7/40

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 20.951 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 1222.8/16

Left Out: 20.096 $\pm$ 0.046  $\chi^2/\text{NDF}$ :1378.0/23

Right Out: 20.690 $\pm$ 0.213  $\chi^2/\text{NDF}$ : 726.9/17

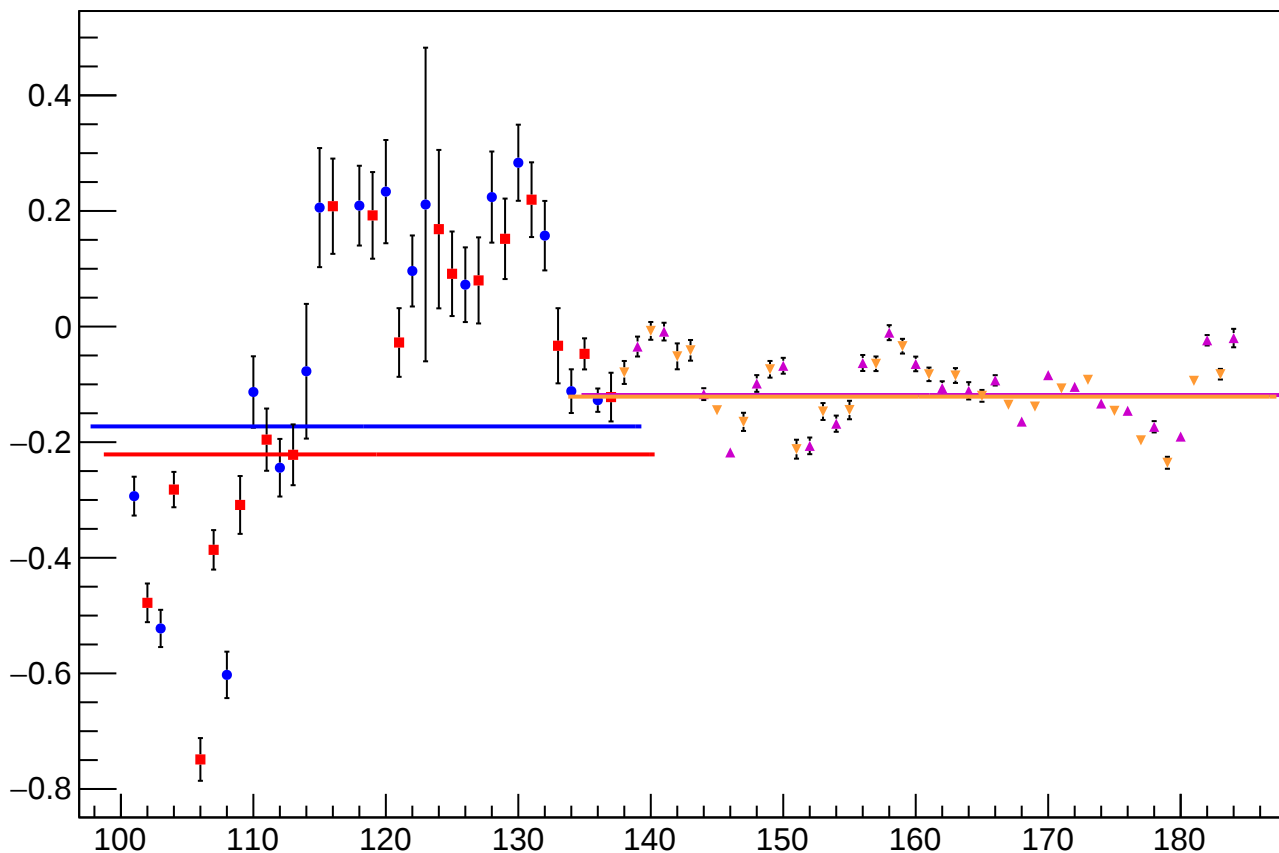
Left In: 20.184 $\pm$ 0.046  $\chi^2/\text{NDF}$ :1470.7/22

+ sign 20.136 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 2616.7/40

All: 20.172 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 4820.9/81

- sign 20.207 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 2203.0/40

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.173 \pm 0.011$   $\chi^2/\text{NDF}$ : 460.3/16

Left Out:  $-0.121 \pm 0.002$   $\chi^2/\text{NDF}$ : 521.1/23

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}$ : 535.1/17

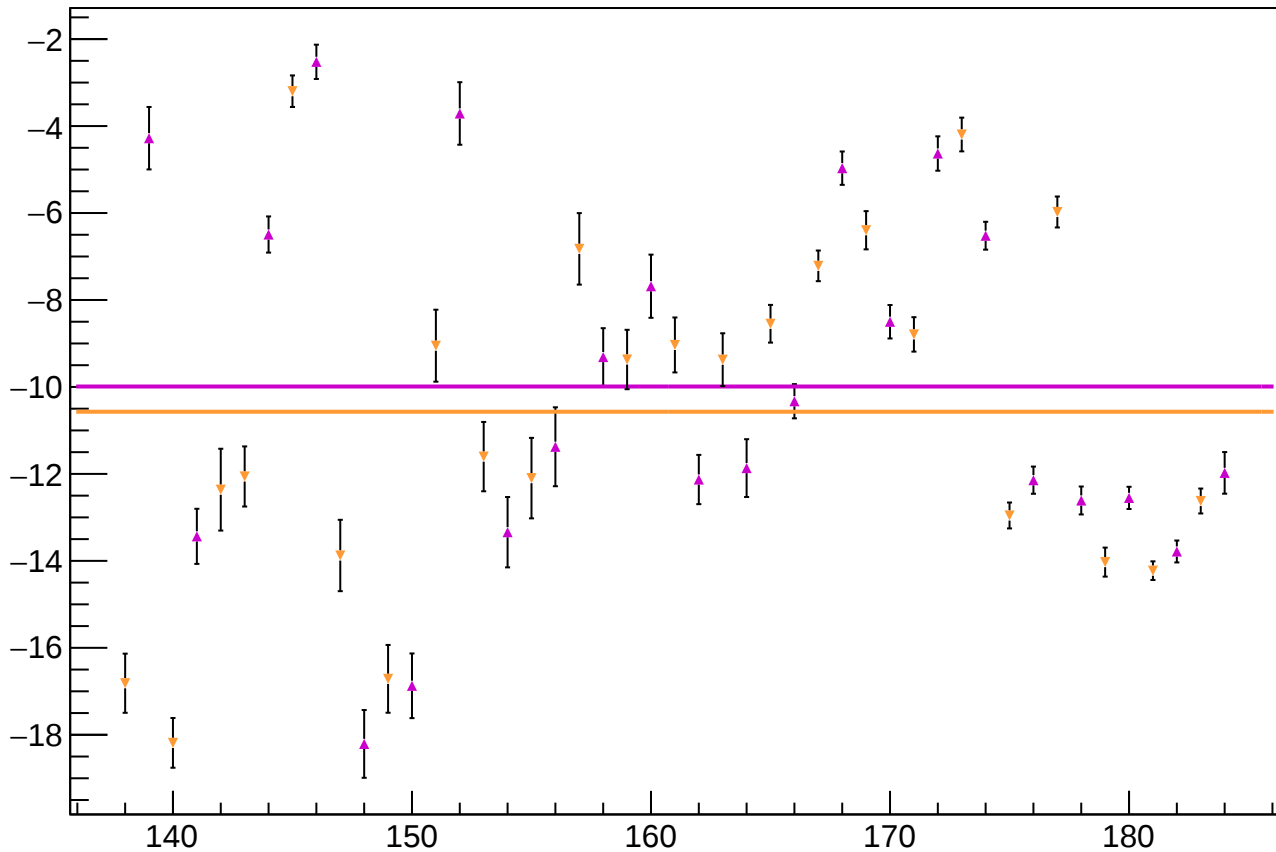
Left In:  $-0.118 \pm 0.002$   $\chi^2/\text{NDF}$ : 727.5/22

+ sign  $-0.123 \pm 0.002$   $\chi^2/\text{NDF}$ : 1001.8/40

All:  $-0.123 \pm 0.001$   $\chi^2/\text{NDF}$ : 2349.2/81

- sign  $-0.122 \pm 0.002$   $\chi^2/\text{NDF}$ : 1347.2/40

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.570+/-0.089  $\chi^2/\text{NDF}$ :1975.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

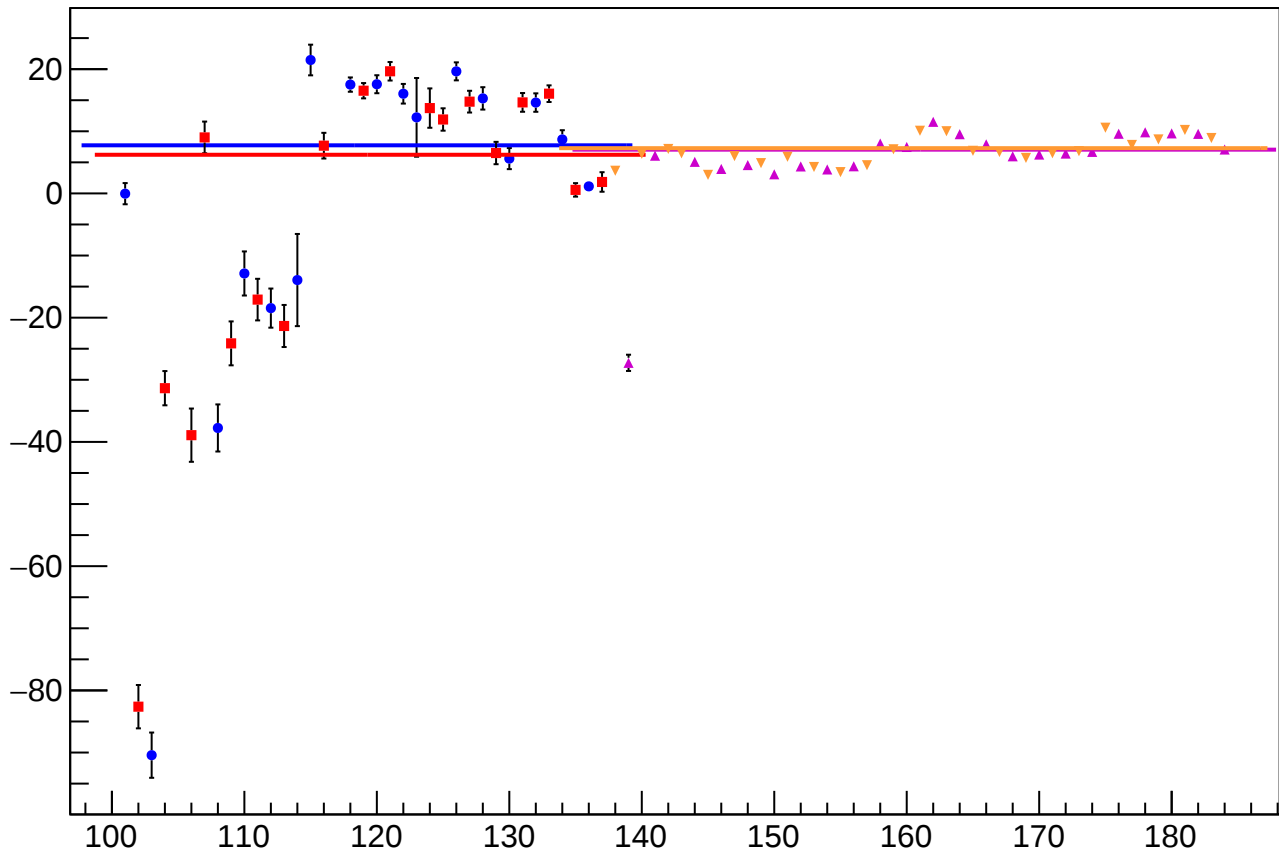
Left In: -9.990+/-0.089  $\chi^2/\text{NDF}$ :1794.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.280+/-0.063  $\chi^2/\text{NDF}$ : 3791.1/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.742 \pm 0.403$   $\chi^2/\text{NDF}$ : 1358.9/16

Left Out:  $7.282 \pm 0.074$   $\chi^2/\text{NDF}$ : 852.1/23

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}$ : 1445.9/17

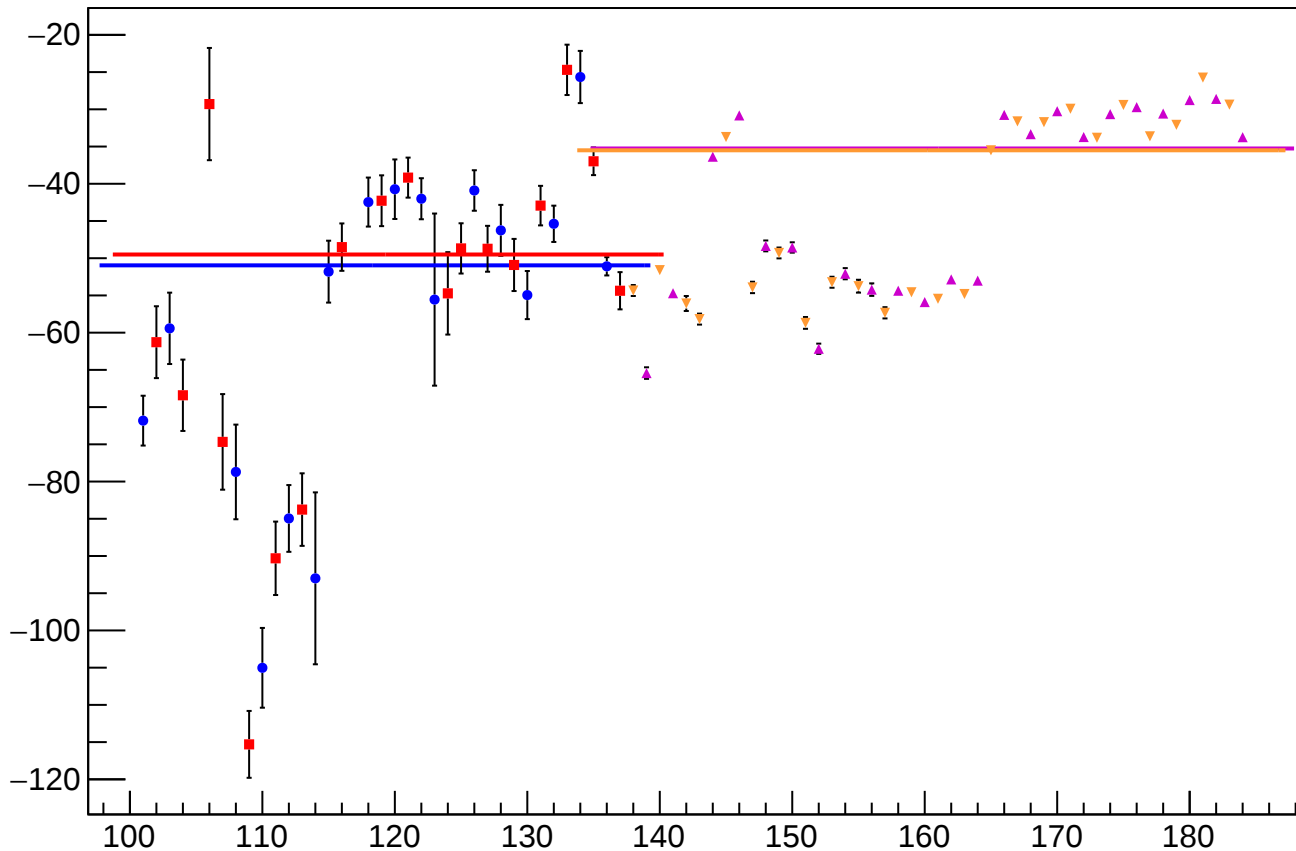
Left In:  $7.043 \pm 0.074$   $\chi^2/\text{NDF}$ : 1604.6/22

+ sign  $7.297 \pm 0.073$   $\chi^2/\text{NDF}$ : 2212.3/40

All:  $7.158 \pm 0.052$   $\chi^2/\text{NDF}$ : 5273.5/81

- sign  $7.020 \pm 0.073$   $\chi^2/\text{NDF}$ : 3054.0/40

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-50.959 \pm 0.738$   $\chi^2/\text{NDF}$ : 331.9/16

Left Out:  $-35.504 \pm 0.090$   $\chi^2/\text{NDF}$ : 12761.7/23

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

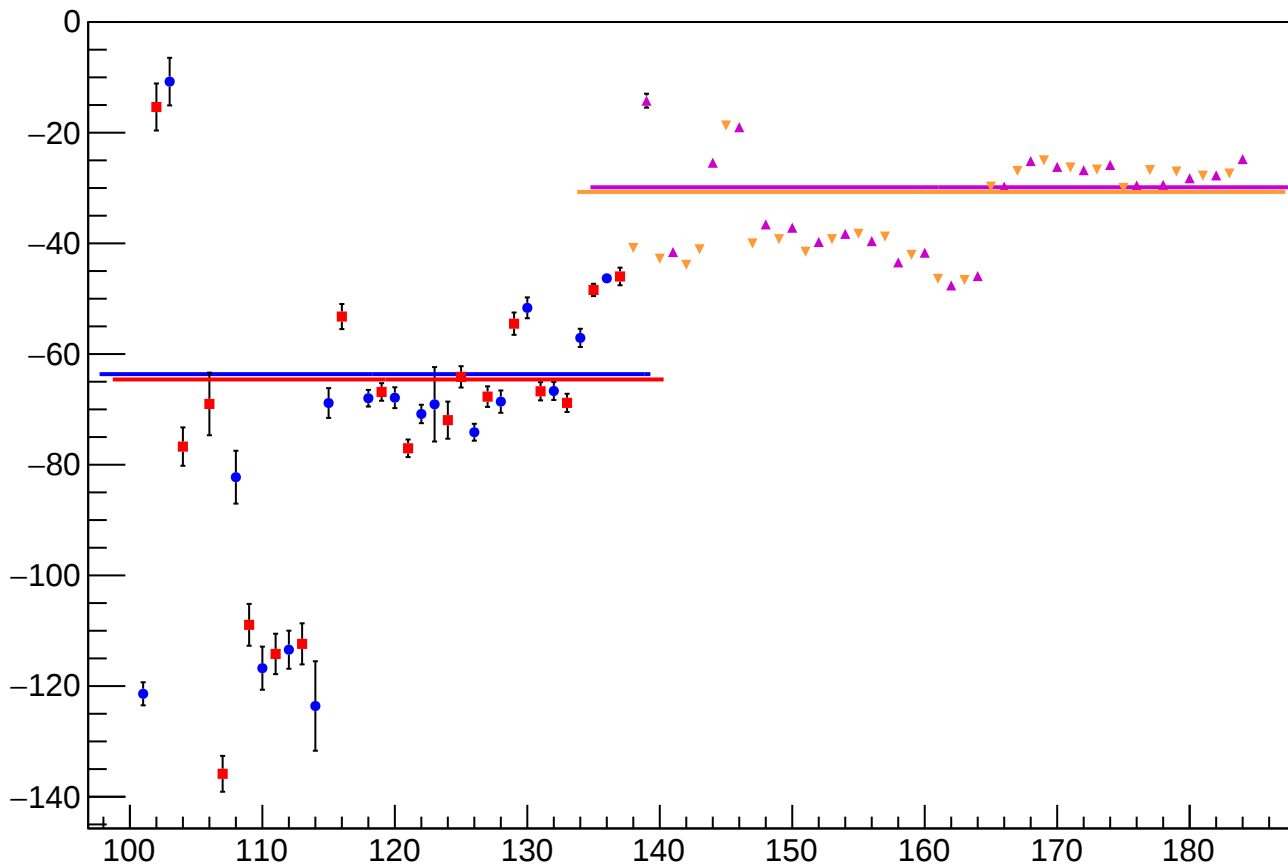
Left In:  $-35.260 \pm 0.090$   $\chi^2/\text{NDF}$ : 11769.2/22

+ sign  $-35.732 \pm 0.090$   $\chi^2/\text{NDF}$ : 13525.2/40

All:  $-35.584 \pm 0.063$   $\chi^2/\text{NDF}$ : 26120.8/81

- sign  $-35.438 \pm 0.089$   $\chi^2/\text{NDF}$ : 12590.2/40

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -63.631 $\pm$ 0.446  $\chi^2$ /NDF: 2011.2/16

Left Out: -30.702 $\pm$ 0.083  $\chi^2$ /NDF: 7826.2/23

Right Out: -64.590 $\pm$ 0.482  $\chi^2$ /NDF: 1594.3/17

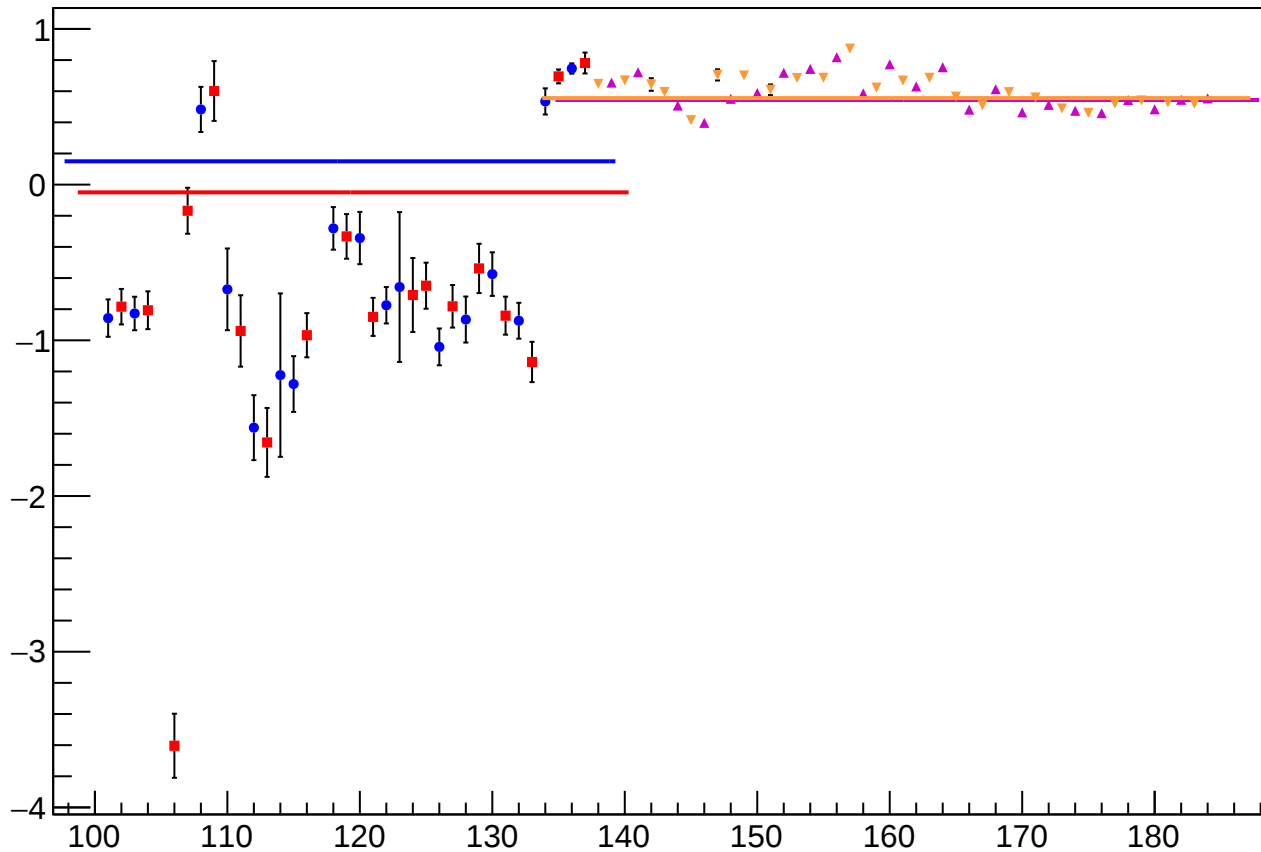
Left In: -29.863 $\pm$ 0.082  $\chi^2$ /NDF: 7145.9/22

+ sign -31.796 $\pm$ 0.081  $\chi^2$ /NDF: 15111.0/40

All: -31.320 $\pm$ 0.057  $\chi^2$ /NDF: 28960.4/81

- sign -30.845 $\pm$ 0.081  $\chi^2$ /NDF: 13780.8/40

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $0.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.2/16

Left Out:  $0.556 \pm 0.004$   $\chi^2/\text{NDF}$ : 526.3/23

Right Out:  $-0.050 \pm 0.026$   $\chi^2/\text{NDF}$ : 1154.0/17

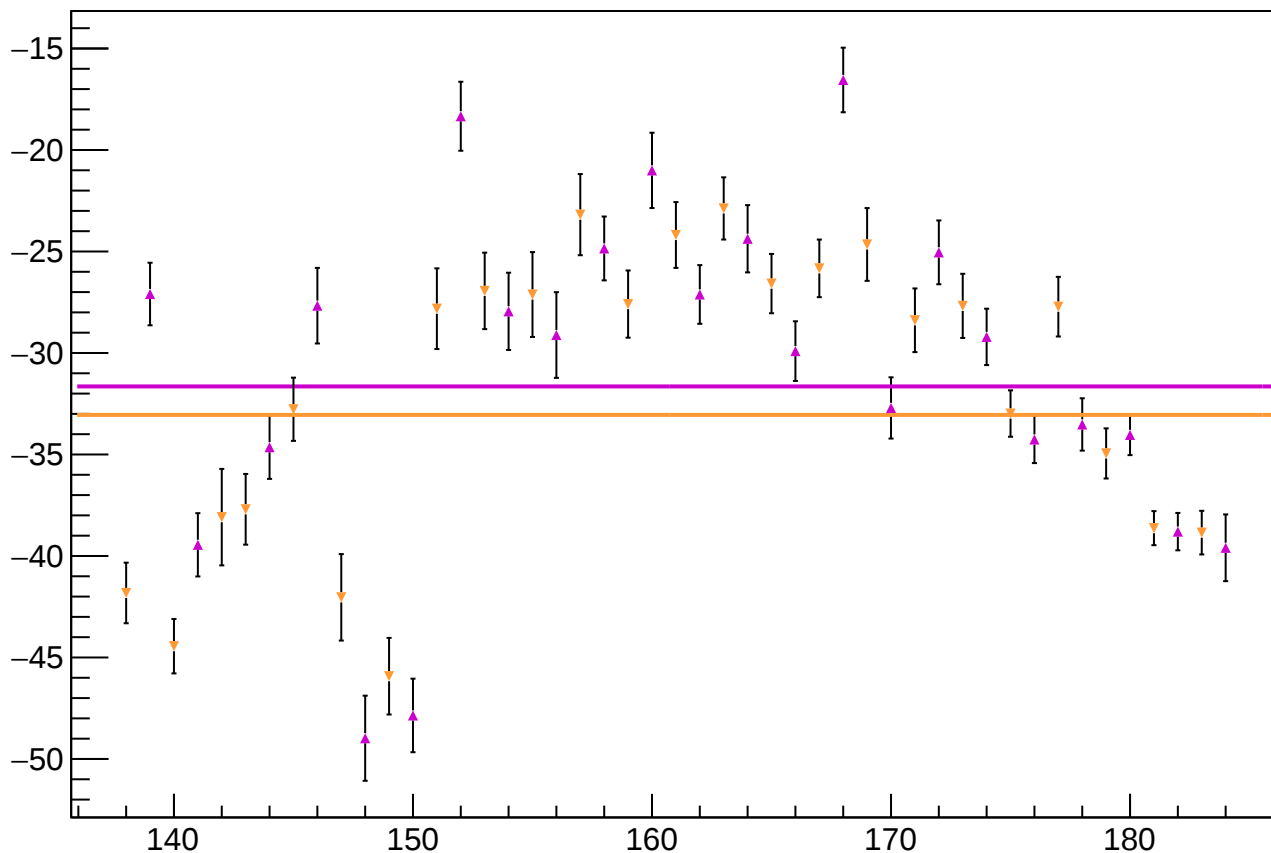
Left In:  $0.544 \pm 0.004$   $\chi^2/\text{NDF}$ : 659.2/22

+ sign  $0.546 \pm 0.004$   $\chi^2/\text{NDF}$ : 1795.0/40

All:  $0.539 \pm 0.003$   $\chi^2/\text{NDF}$ : 4116.6/81

- sign  $0.532 \pm 0.004$   $\chi^2/\text{NDF}$ : 2314.2/40

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.051+/-0.303  $\chi^2/\text{NDF}$ : 494.0/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

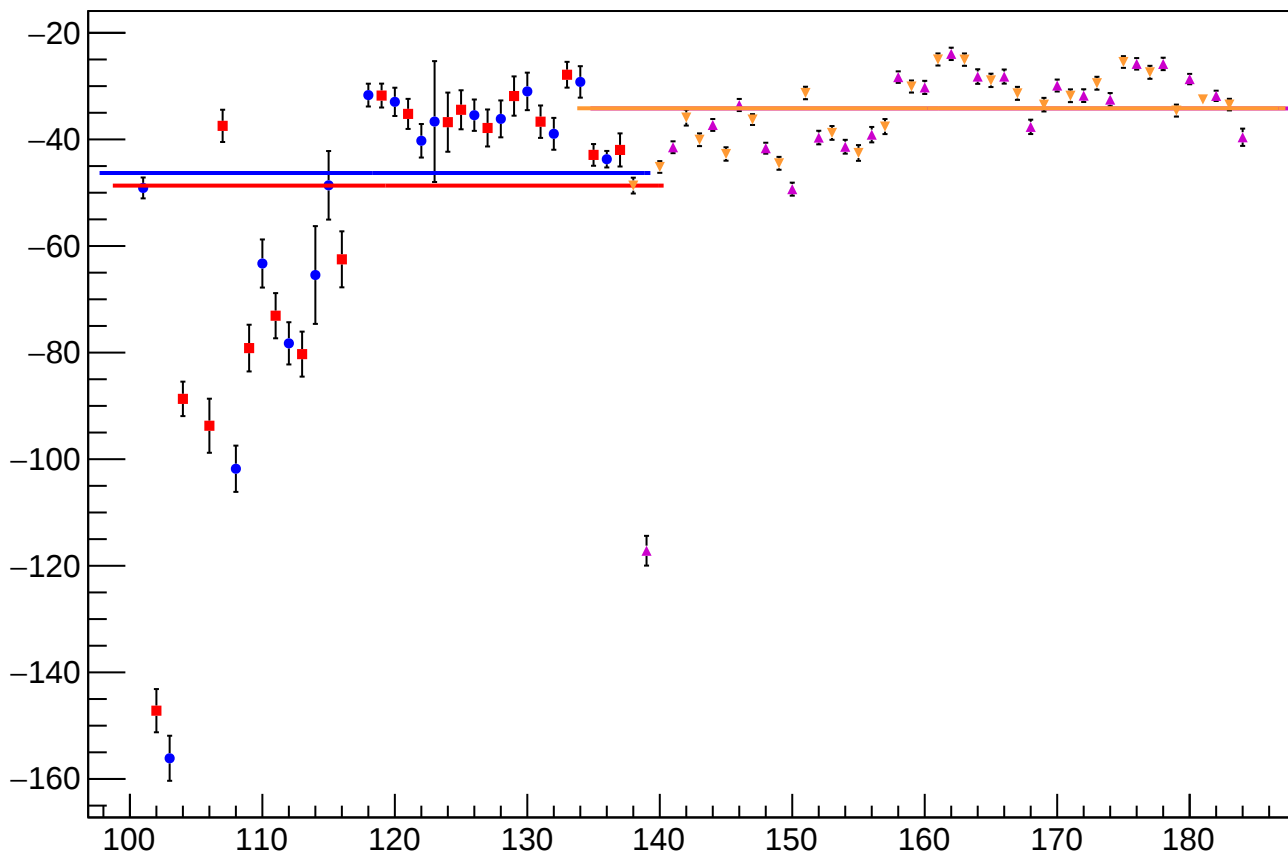
Left In: -31.647+/-0.308  $\chi^2/\text{NDF}$ : 546.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.359+/-0.216  $\chi^2/\text{NDF}$ : 1051.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-46.301 \pm 0.723$   $\chi^2/\text{NDF}: 1084.0/16$

Left Out:  $-34.157 \pm 0.244$   $\chi^2/\text{NDF}: 679.4/23$

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}: 1212.3/17$

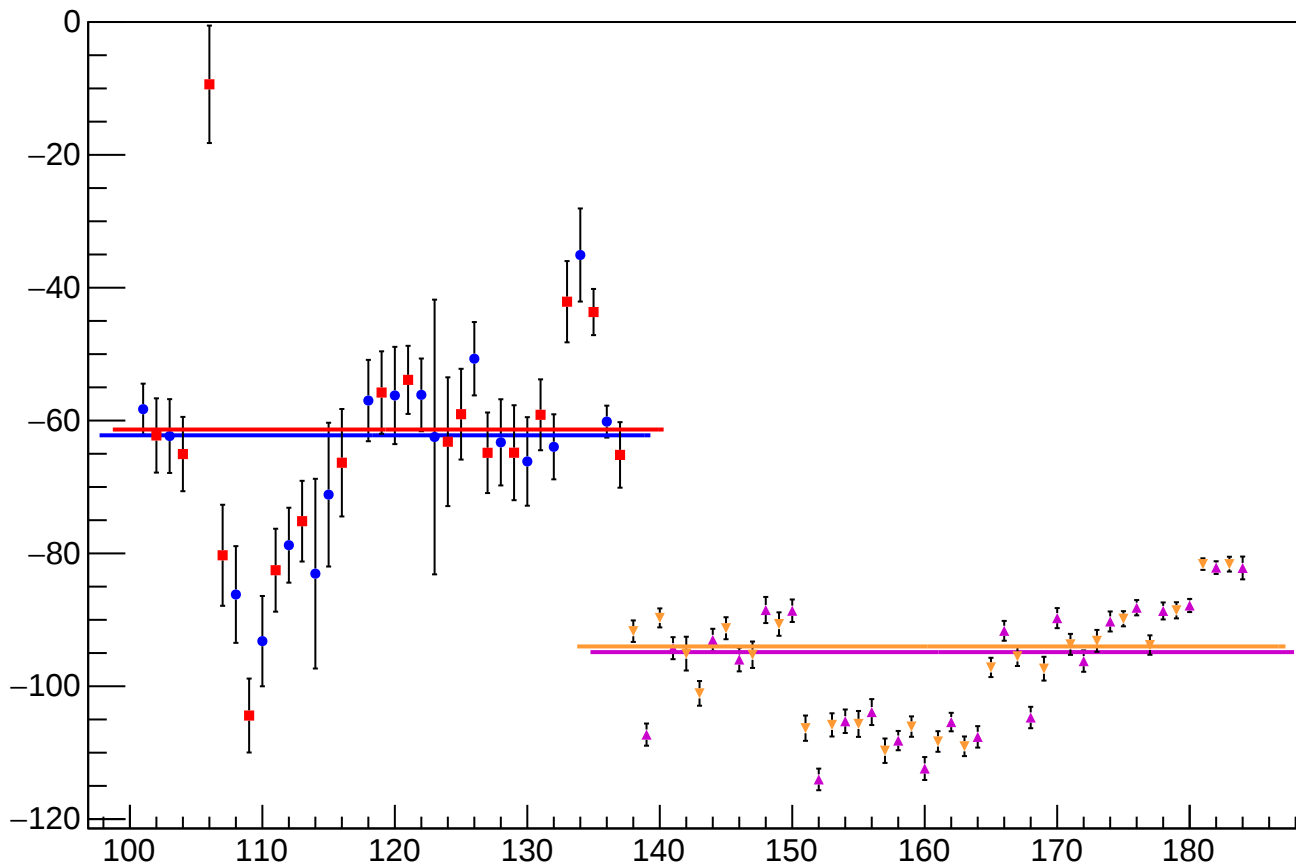
Left In:  $-34.189 \pm 0.250$   $\chi^2/\text{NDF}: 1546.1/22$

+ sign  $-35.393 \pm 0.231$   $\chi^2/\text{NDF}: 2016.5/40$

All:  $-35.490 \pm 0.166$   $\chi^2/\text{NDF}: 5100.1/81$

- sign  $-35.594 \pm 0.238$   $\chi^2/\text{NDF}: 3083.2/40$

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-62.221 \pm 1.312$   $\chi^2/\text{NDF}$ : 67.3/16

Left Out:  $-94.006 \pm 0.305$   $\chi^2/\text{NDF}$ : 847.2/23

Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}$ : 158.4/17

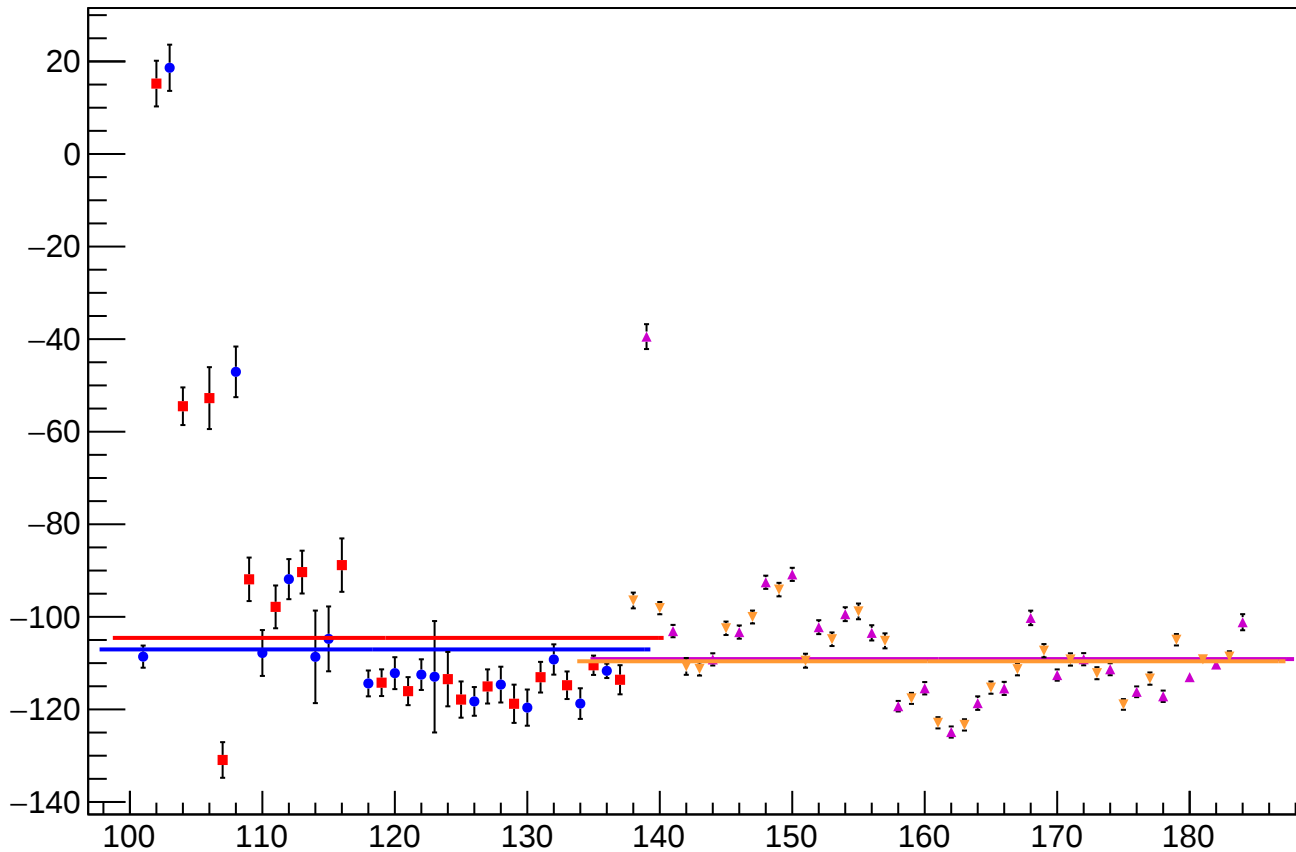
Left In:  $-94.861 \pm 0.307$   $\chi^2/\text{NDF}$ : 985.5/22

+ sign  $-92.379 \pm 0.297$   $\chi^2/\text{NDF}$ : 1471.7/40

All:  $-92.827 \pm 0.211$   $\chi^2/\text{NDF}$ : 3179.8/81

- sign  $-93.284 \pm 0.300$   $\chi^2/\text{NDF}$ : 1703.5/40

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-107.040 \pm 0.812$   $\chi^2/\text{NDF}$ : 827.8/16

Left Out:  $-109.600 \pm 0.274$   $\chi^2/\text{NDF}$ : 783.5/23

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

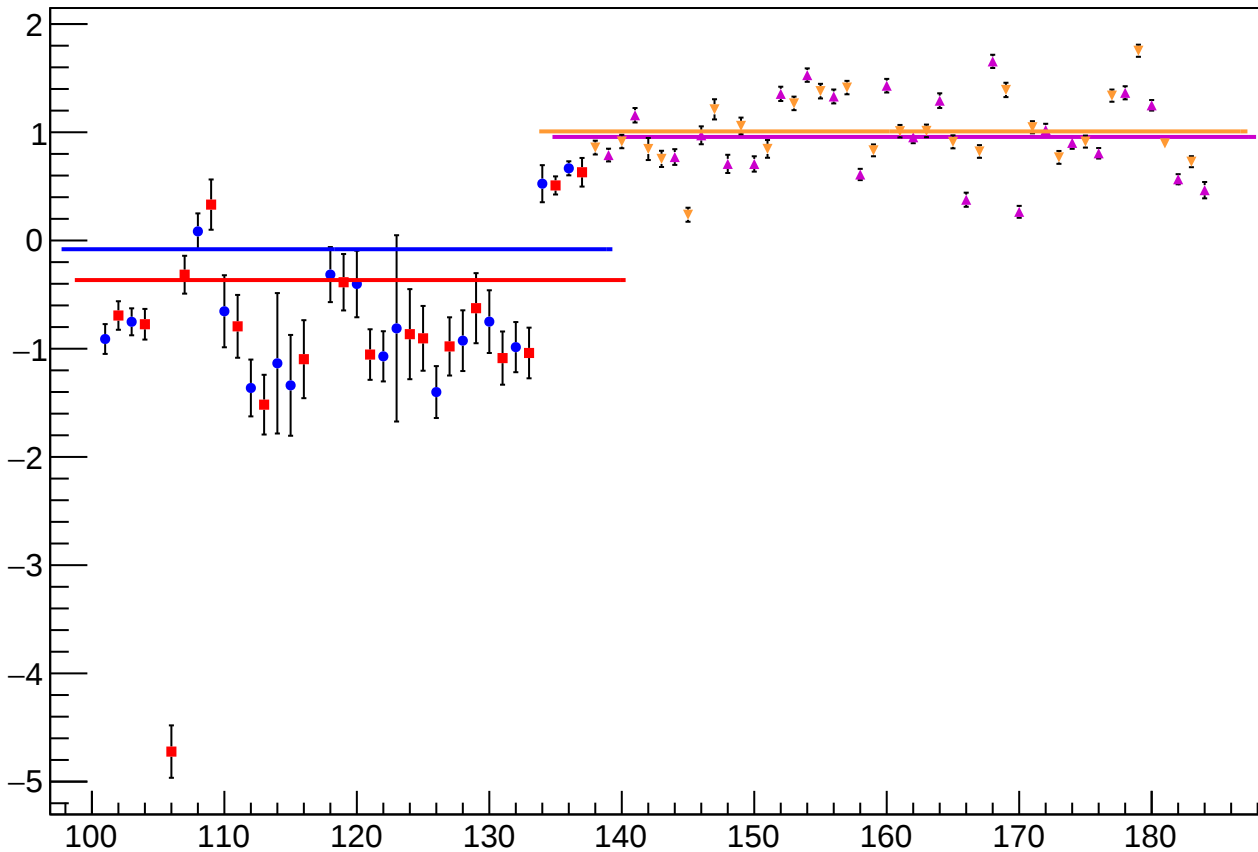
Left In:  $-109.126 \pm 0.279$   $\chi^2/\text{NDF}$ : 1578.7/22

+ sign  $-109.339 \pm 0.259$   $\chi^2/\text{NDF}$ : 1620.3/40

All:  $-109.023 \pm 0.186$   $\chi^2/\text{NDF}$ : 4195.0/81

- sign  $-108.691 \pm 0.266$   $\chi^2/\text{NDF}$ : 2571.7/40

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.081 \pm 0.042$   $\chi^2/\text{NDF}$ : 328.9/16

Left Out:  $1.008 \pm 0.013$   $\chi^2/\text{NDF}$ : 584.2/23

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

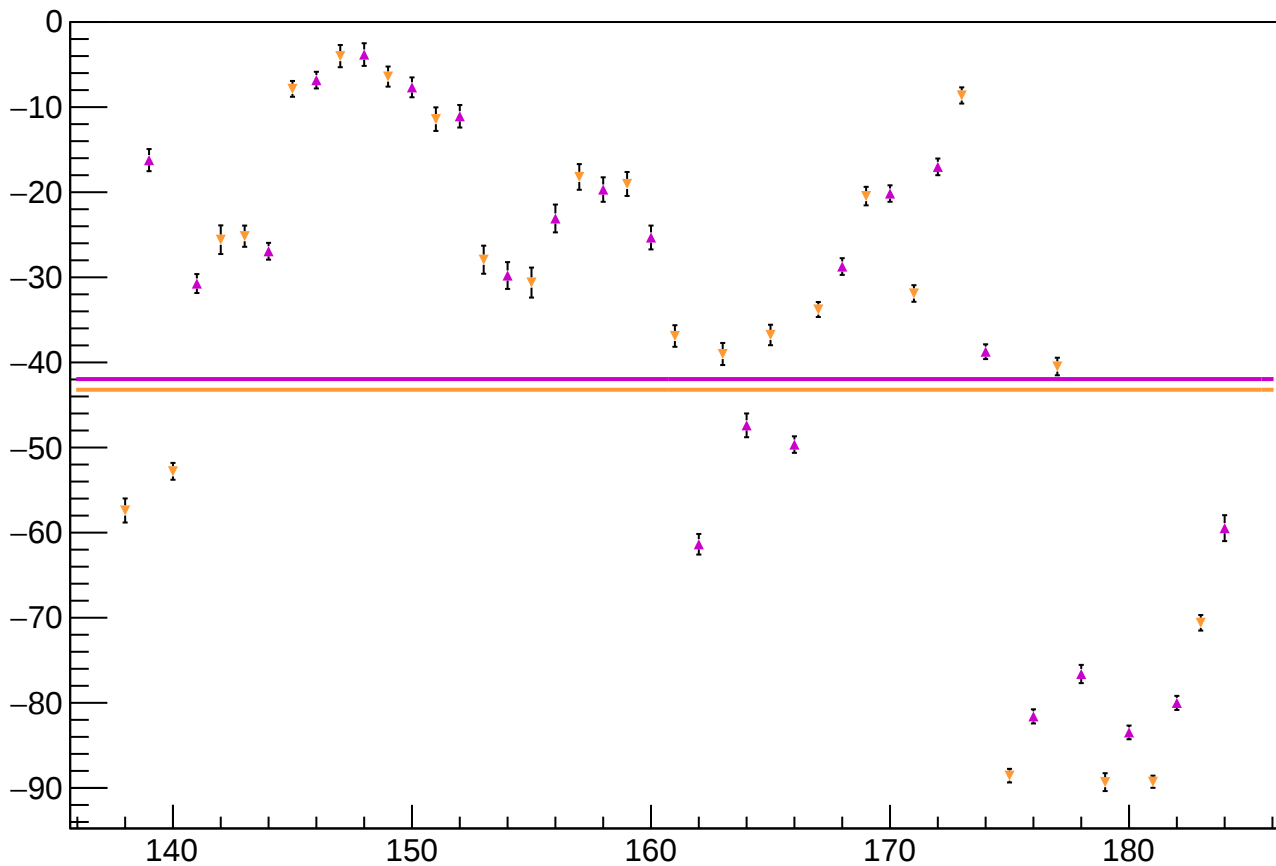
Left In:  $0.957 \pm 0.013$   $\chi^2/\text{NDF}$ : 896.5/22

+ sign  $0.919 \pm 0.012$   $\chi^2/\text{NDF}$ : 1524.6/40

All:  $0.888 \pm 0.009$   $\chi^2/\text{NDF}$ : 3842.0/81

- sign  $0.857 \pm 0.012$   $\chi^2/\text{NDF}$ : 2304.0/40

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -43.213+/-0.224  $\chi^2/\text{NDF}$ :17340.2/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

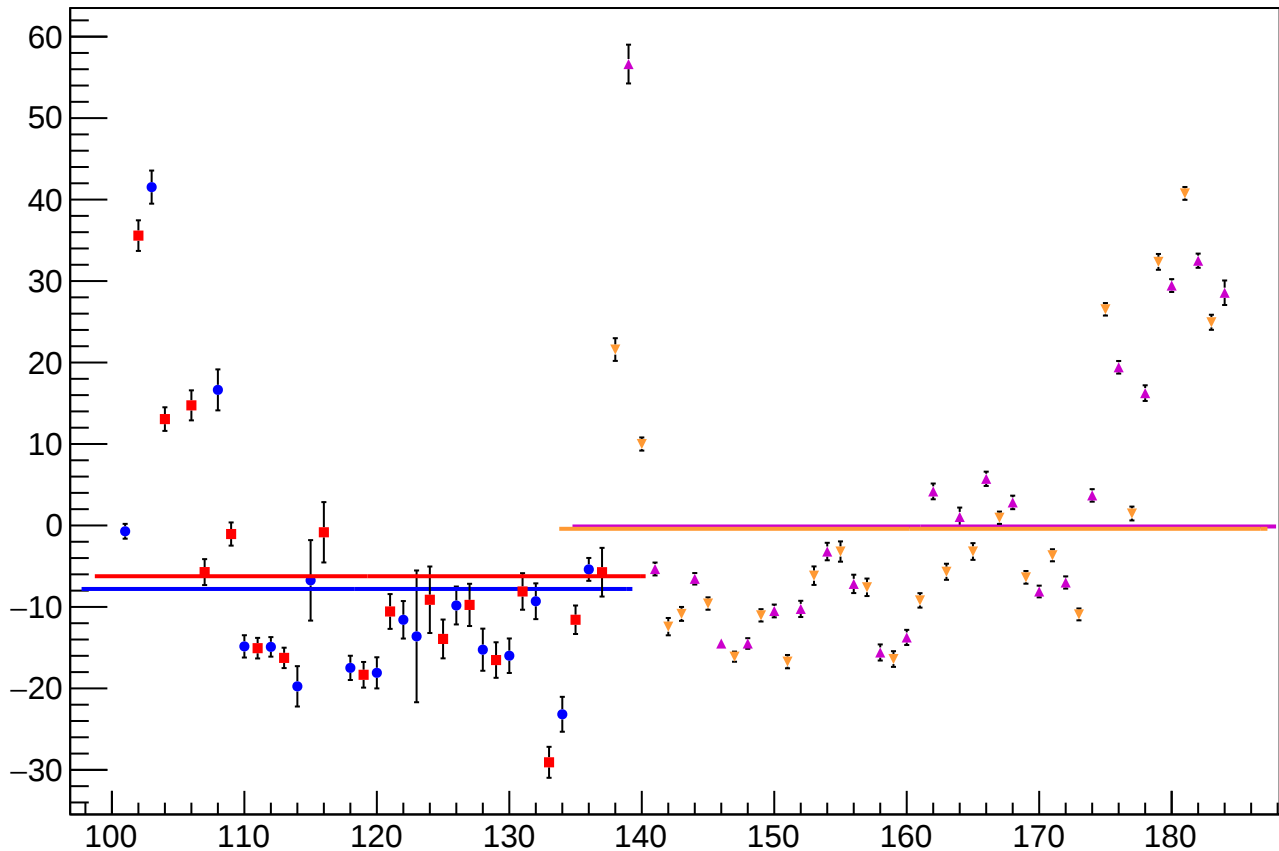
Left In: -41.955+/-0.226  $\chi^2/\text{NDF}$ :14723.4/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.589+/-0.159  $\chi^2/\text{NDF}$ : 32079.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.794 \pm 0.428$   $\chi^2/\text{NDF}$ : 982.7/16

Left Out:  $-0.409 \pm 0.176$   $\chi^2/\text{NDF}$ : 8687.9/23

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

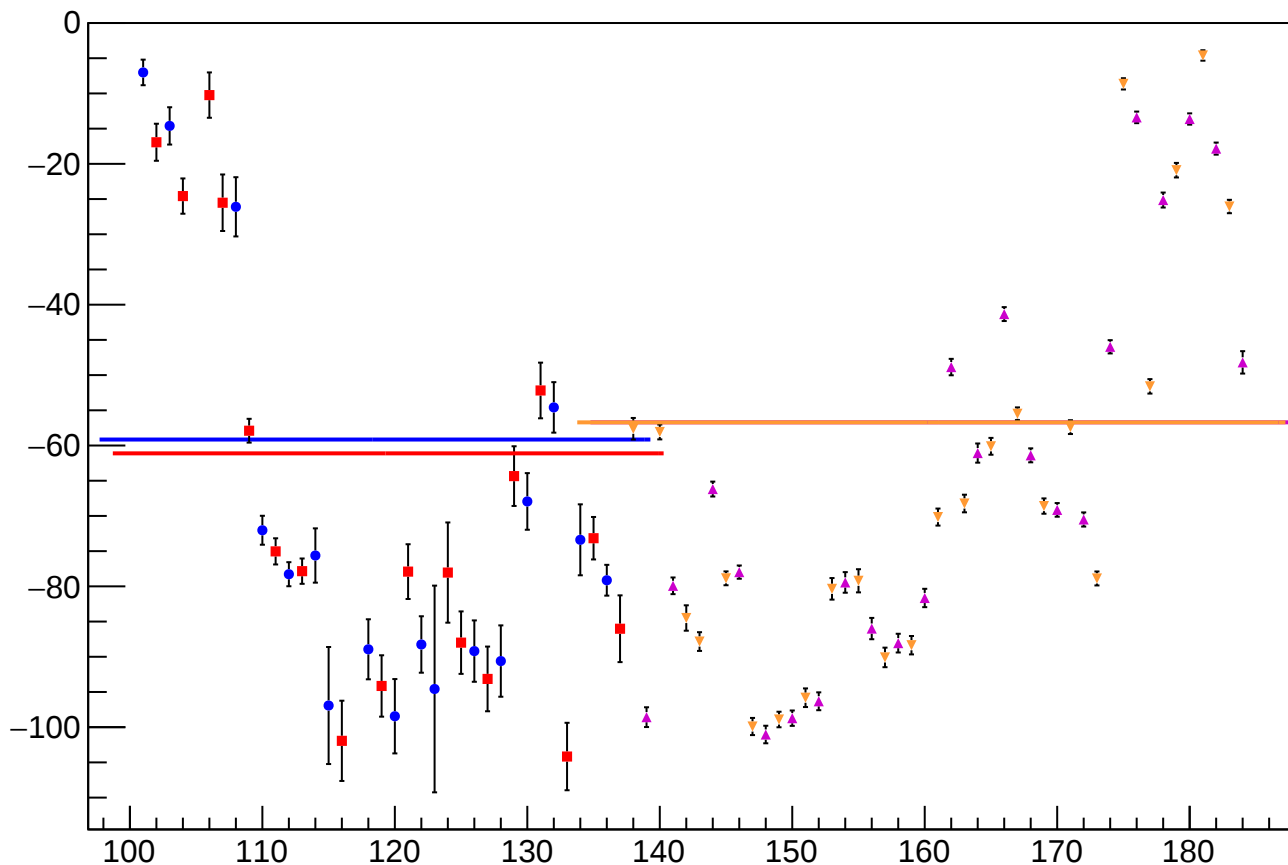
Left In:  $-0.125 \pm 0.179$   $\chi^2/\text{NDF}$ : 6925.0/22

+ sign  $-1.473 \pm 0.162$   $\chi^2/\text{NDF}$ : 9925.4/40

All:  $-1.252 \pm 0.116$   $\chi^2/\text{NDF}$ : 18209.3/81

- sign  $-1.024 \pm 0.165$   $\chi^2/\text{NDF}$ : 8280.1/40

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-59.150 \pm 0.745$   $\chi^2/\text{NDF}$ : 1718.3/16

Left Out:  $-56.712 \pm 0.225$   $\chi^2/\text{NDF}$ : 18104.9/23

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

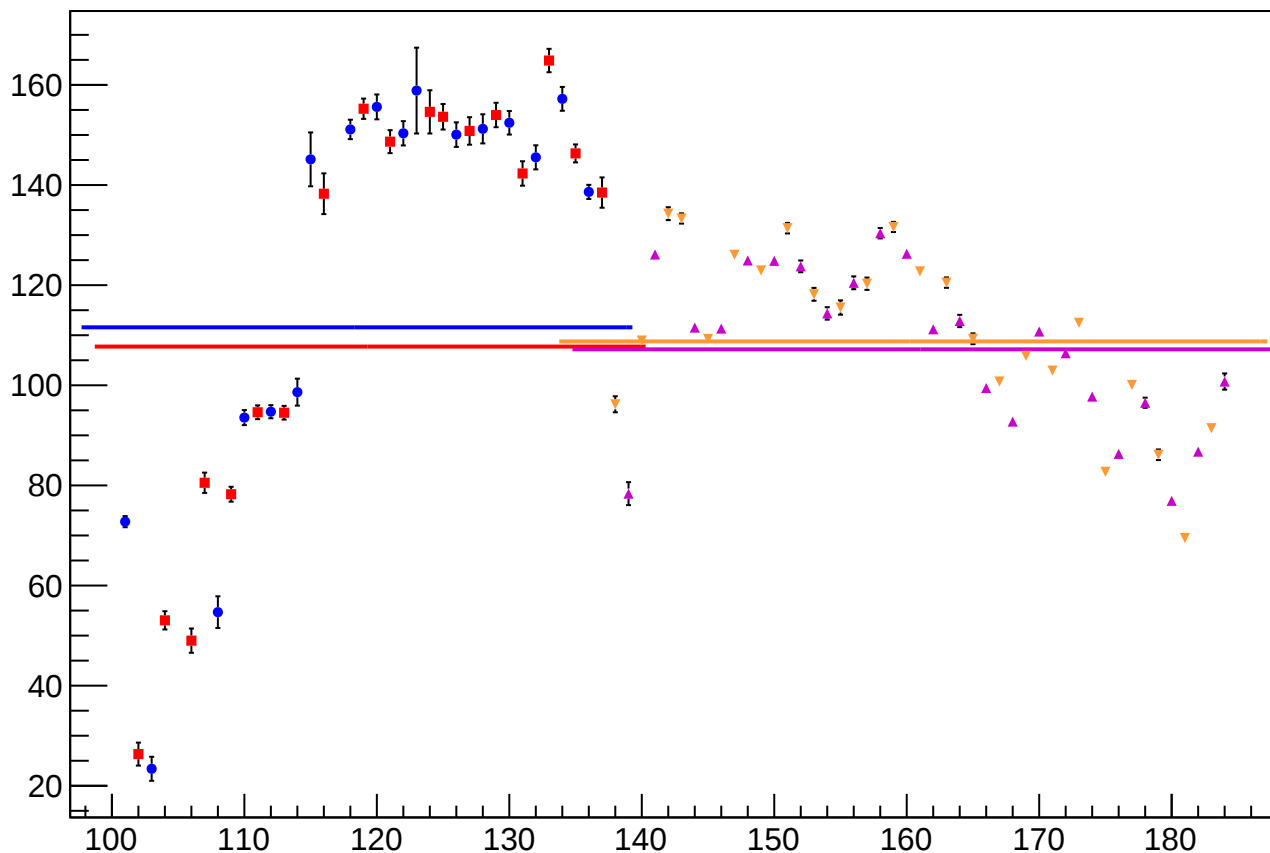
Left In:  $-56.705 \pm 0.226$   $\chi^2/\text{NDF}$ : 16547.5/22

+ sign  $-56.916 \pm 0.216$   $\chi^2/\text{NDF}$ : 19833.0/40

All:  $-57.015 \pm 0.152$   $\chi^2/\text{NDF}$ : 37734.0/81

- sign  $-57.113 \pm 0.215$   $\chi^2/\text{NDF}$ : 17900.5/40

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 111.580 $\pm$ 0.487  $\chi^2$ /NDF: 5946.0/16

Left Out: 108.764 $\pm$ 0.199  $\chi^2$ /NDF: 7395.8/23

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

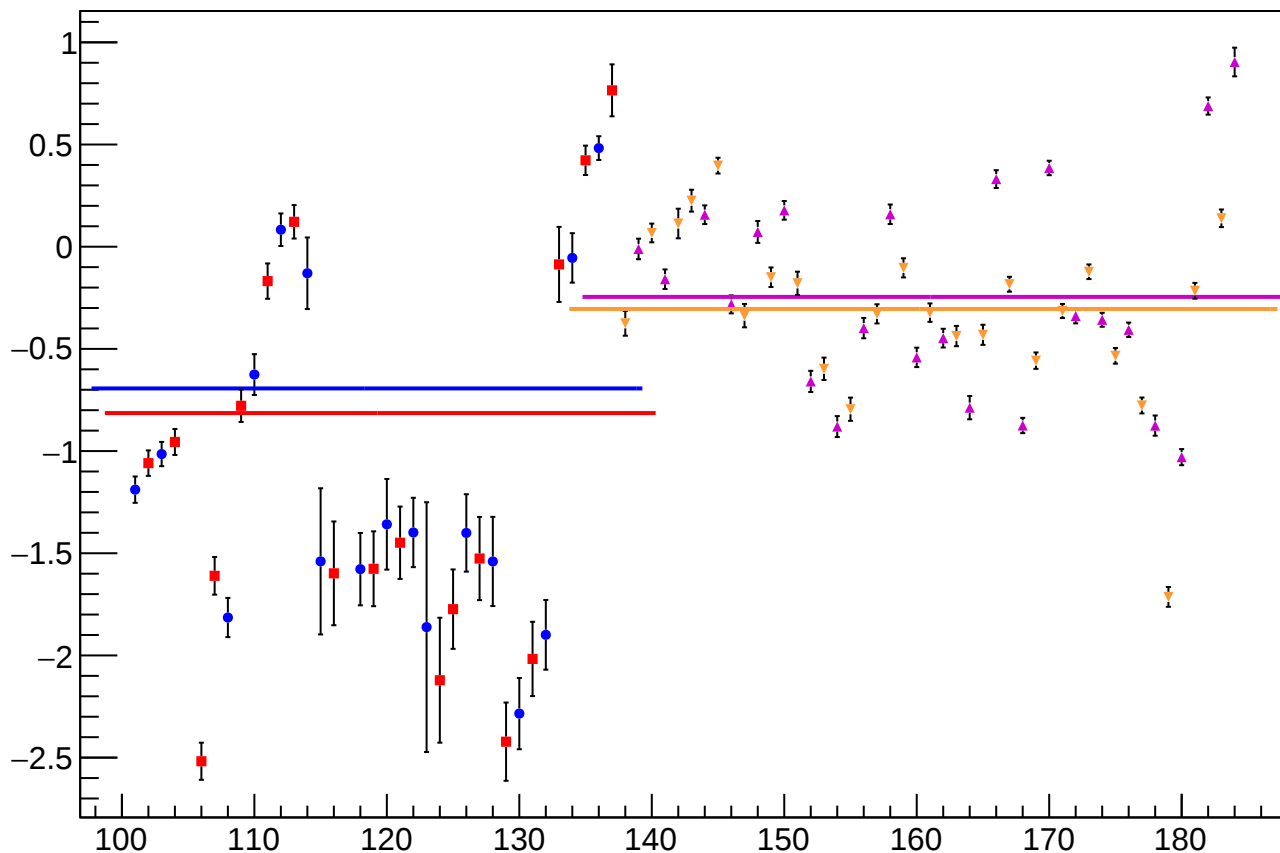
Left In: 107.180 $\pm$ 0.202  $\chi^2$ /NDF: 5592.3/22

+ sign 109.166 $\pm$ 0.184  $\chi^2$ /NDF: 13370.4/40

All: 108.225 $\pm$ 0.131  $\chi^2$ /NDF: 25852.8/81

- sign 107.261 $\pm$ 0.186  $\chi^2$ /NDF: 12429.6/40

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.694 \pm 0.026$   $\chi^2/\text{NDF}$ : 990.7/16

Left Out:  $-0.305 \pm 0.009$   $\chi^2/\text{NDF}$ : 1898.9/23

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

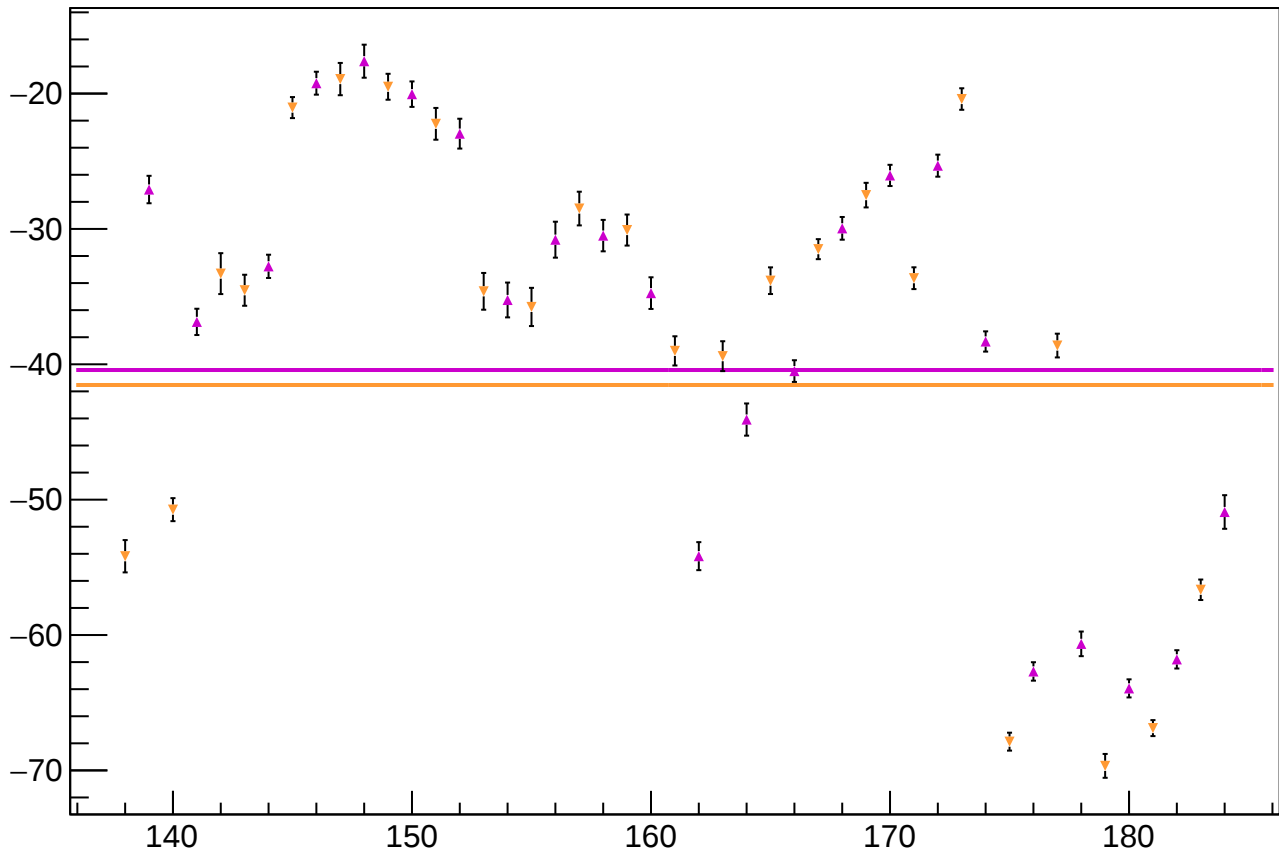
Left In:  $-0.246 \pm 0.009$   $\chi^2/\text{NDF}$ : 2804.3/22

+ sign  $-0.348 \pm 0.009$   $\chi^2/\text{NDF}$ : 3091.2/40

All:  $-0.332 \pm 0.006$   $\chi^2/\text{NDF}$ : 7683.4/81

- sign  $-0.316 \pm 0.009$   $\chi^2/\text{NDF}$ : 4585.3/40

# reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.529+/-0.188  $\chi^2/\text{NDF}$ : 8554.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

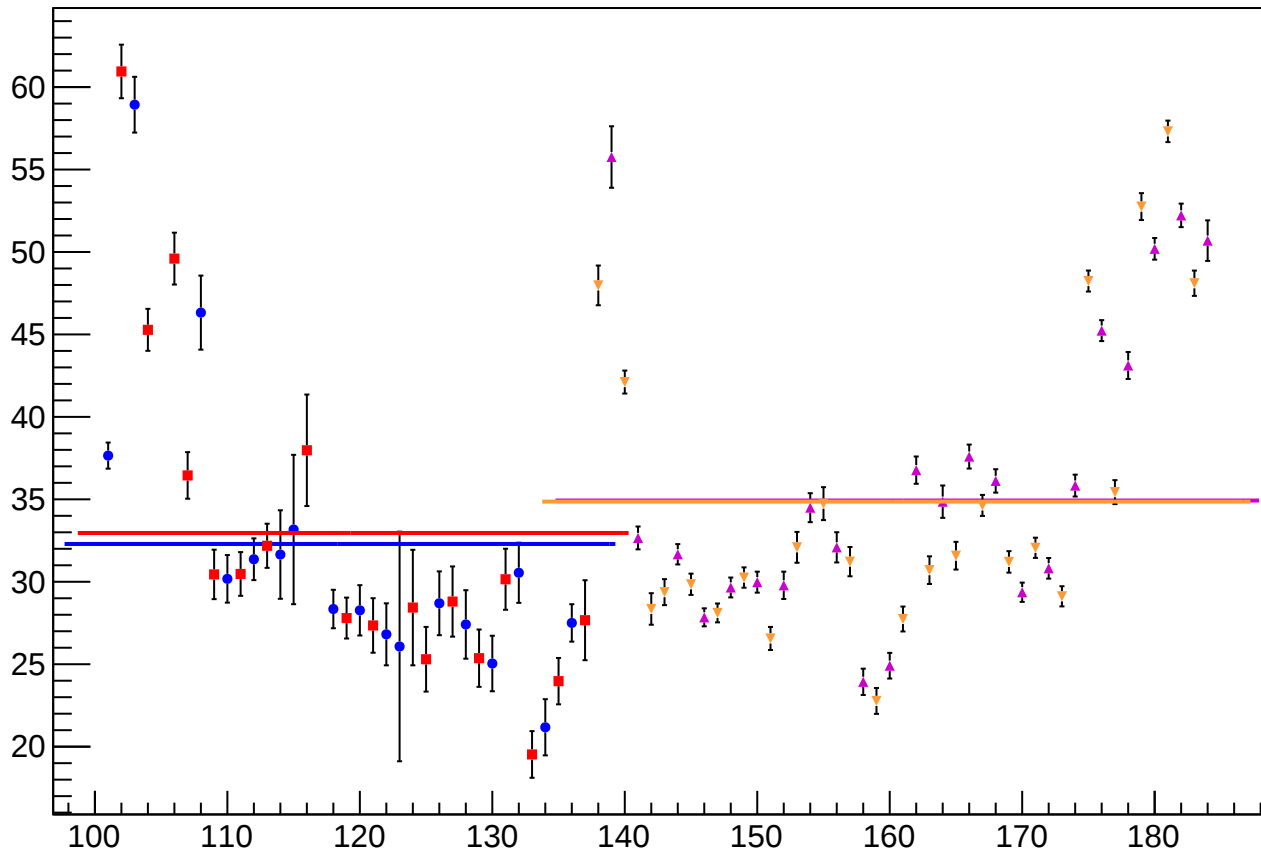
Left In: -40.422+/-0.189  $\chi^2/\text{NDF}$ : 7030.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.978+/-0.133  $\chi^2/\text{NDF}$ : 15602.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $32.293 \pm 0.373$   $\chi^2/\text{NDF}: 452.5/16$

Left Out:  $34.863 \pm 0.149$   $\chi^2/\text{NDF}: 3654.5/23$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

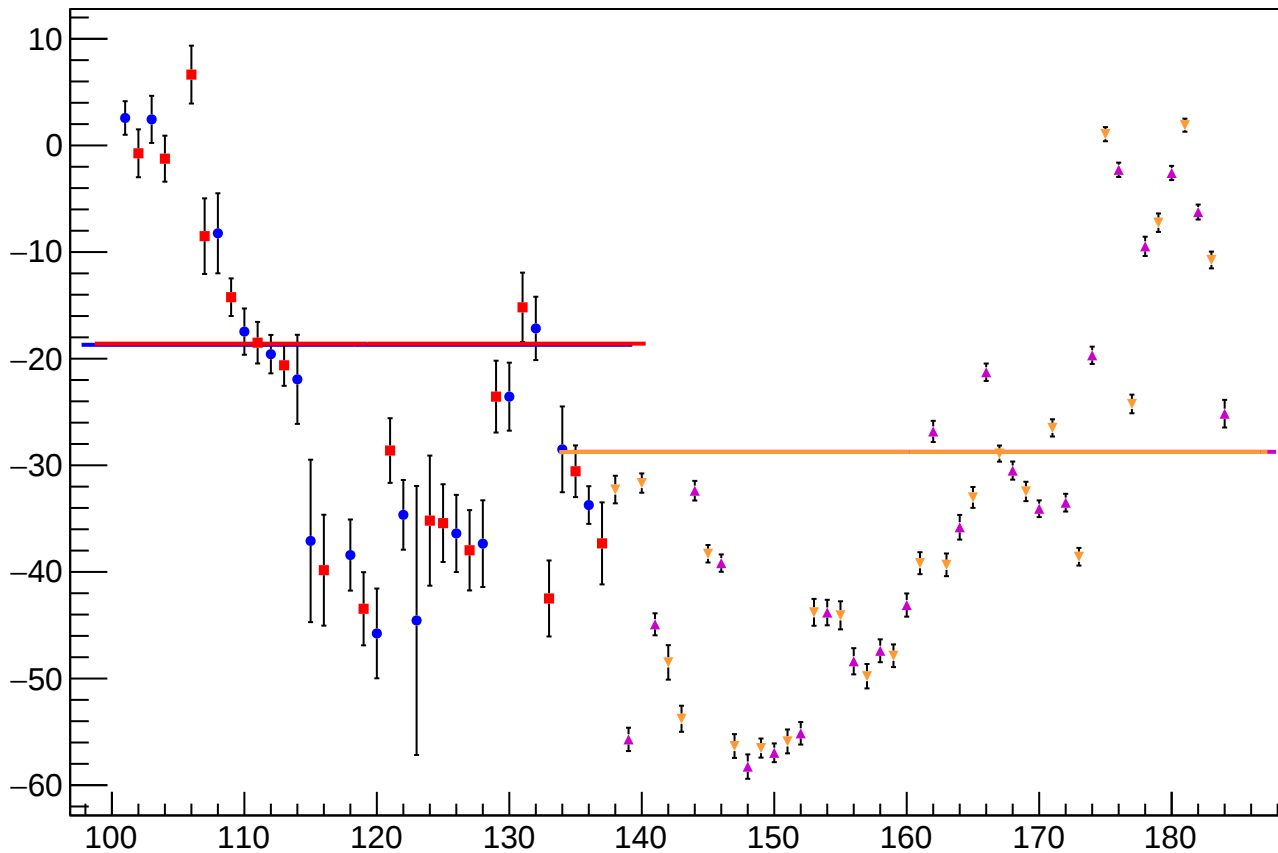
Left In:  $34.928 \pm 0.151$   $\chi^2/\text{NDF}: 2688.4/22$

+ sign  $34.511 \pm 0.138$   $\chi^2/\text{NDF}: 4148.0/40$

All:  $34.584 \pm 0.098$   $\chi^2/\text{NDF}: 7584.2/81$

- sign  $34.659 \pm 0.140$   $\chi^2/\text{NDF}: 3435.6/40$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-18.699 \pm 0.667$   $\chi^2/\text{NDF}$ : 519.1/16

Left Out:  $-28.756 \pm 0.189$   $\chi^2/\text{NDF}$ : 9891.4/23

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}$ : 461.3/17

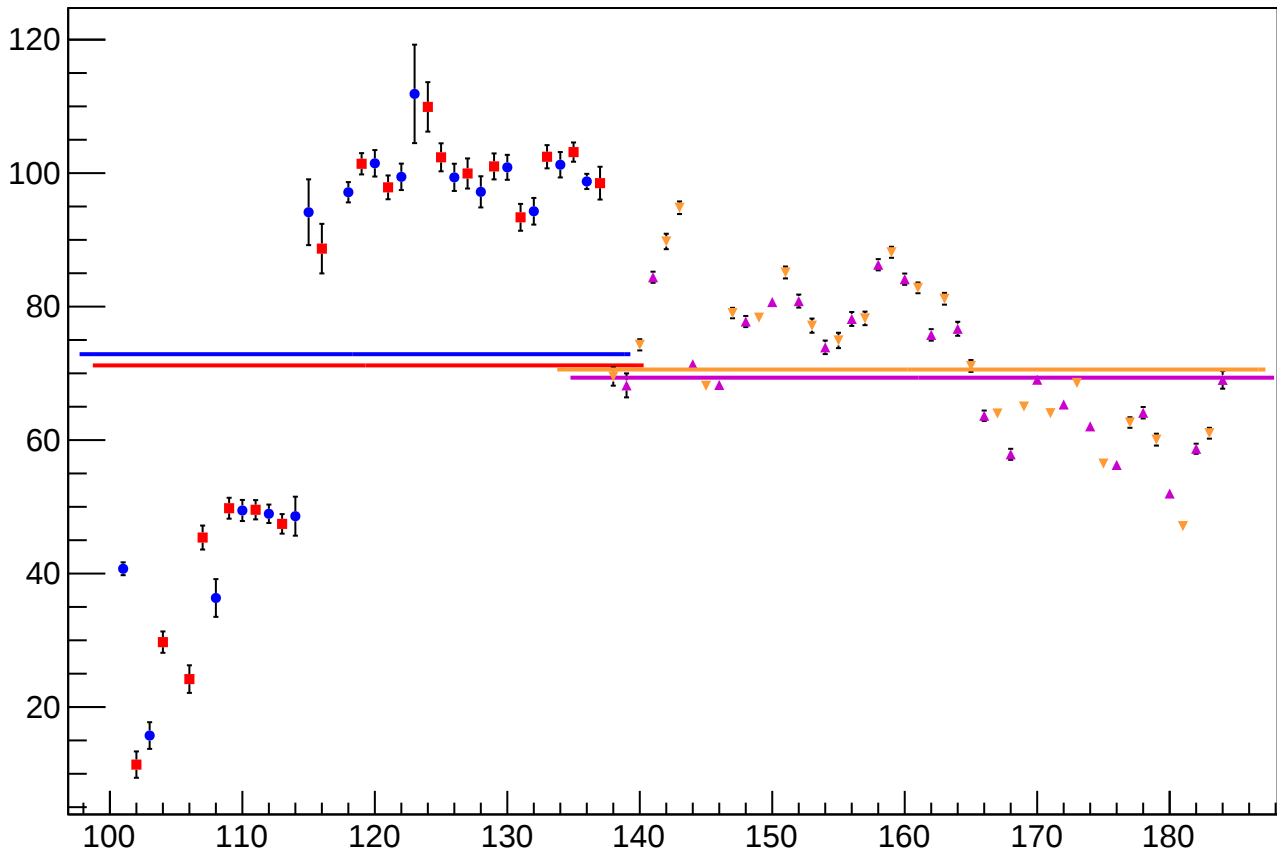
Left In:  $-28.735 \pm 0.189$   $\chi^2/\text{NDF}$ : 9155.5/22

+ sign  $-28.009 \pm 0.182$   $\chi^2/\text{NDF}$ : 10621.3/40

All:  $-27.974 \pm 0.128$   $\chi^2/\text{NDF}$ : 20464.4/81

- sign  $-27.940 \pm 0.181$   $\chi^2/\text{NDF}$ : 9843.0/40

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.870 $\pm$ 0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 70.578 $\pm$ 0.168  $\chi^2$ /NDF: 4590.9/23

Right Out: 71.190 $\pm$ 0.434  $\chi^2$ /NDF: 5375.1/17

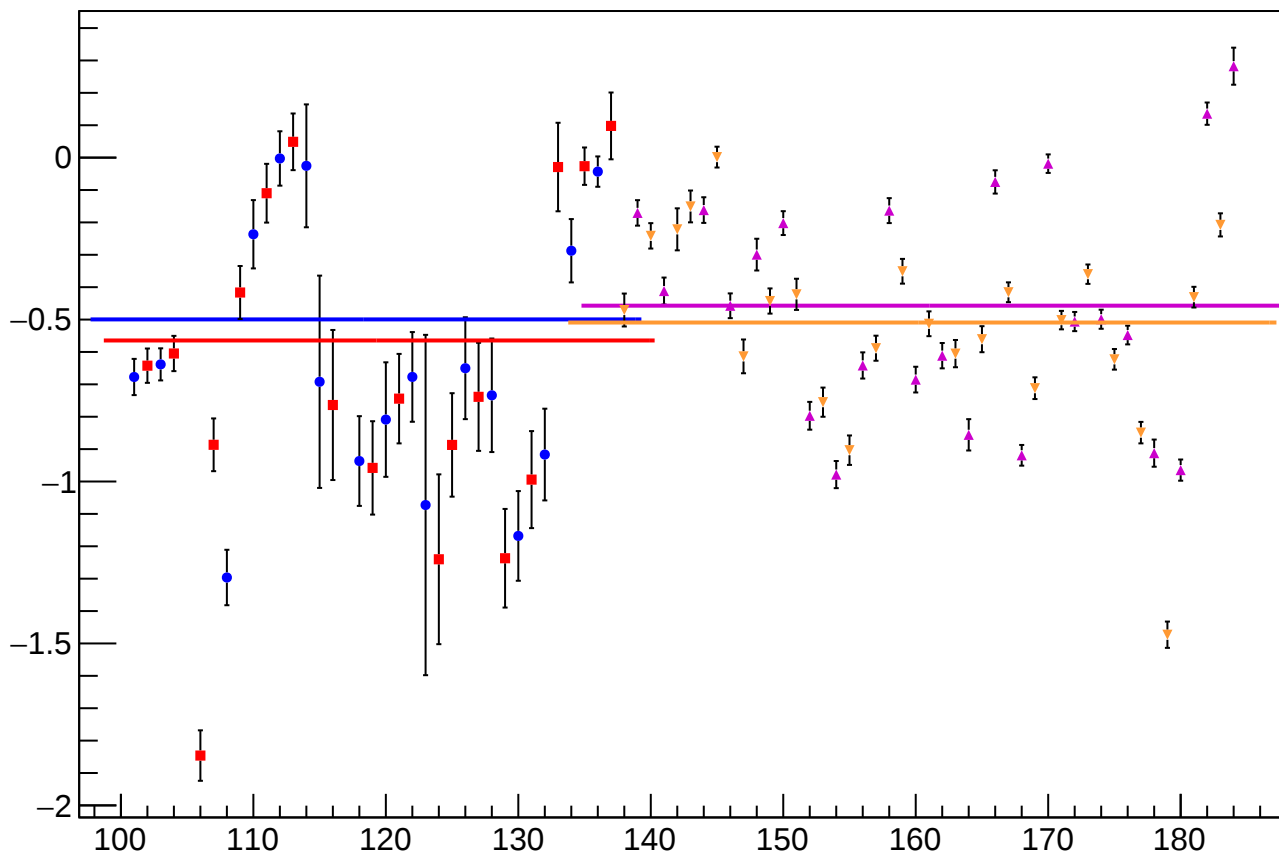
Left In: 69.350 $\pm$ 0.170  $\chi^2$ /NDF: 3330.7/22

+ sign 70.885 $\pm$ 0.156  $\chi^2$ /NDF: 9343.0/40

All: 70.247 $\pm$ 0.111  $\chi^2$ /NDF: 18098.2/81

- sign 69.594 $\pm$ 0.158  $\chi^2$ /NDF: 8721.5/40

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.500 \pm 0.022$   $\chi^2/\text{NDF}$ : 302.6/16

Left Out:  $-0.509 \pm 0.008$   $\chi^2/\text{NDF}$ : 1344.8/23

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

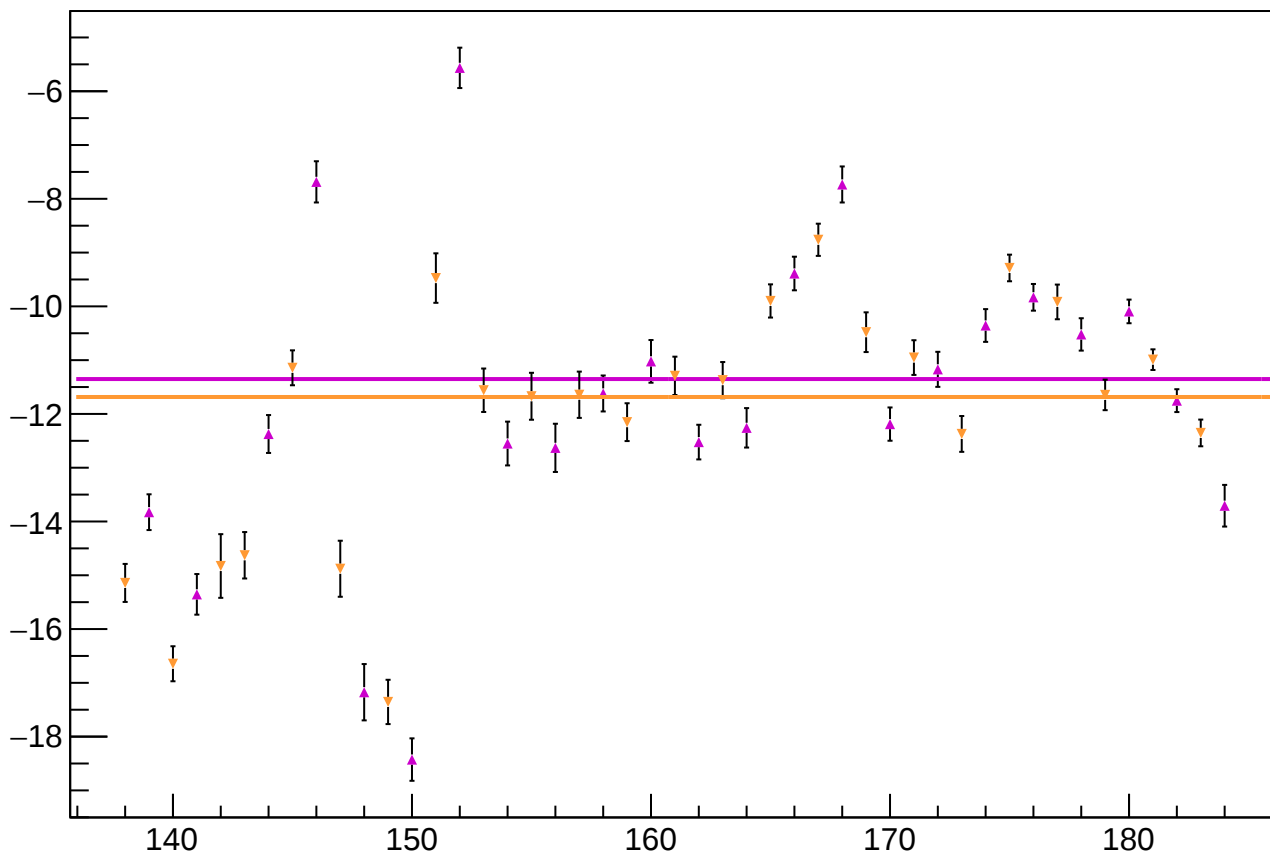
Left In:  $-0.457 \pm 0.008$   $\chi^2/\text{NDF}$ : 1975.2/22

+ sign  $-0.508 \pm 0.007$   $\chi^2/\text{NDF}$ : 1647.6/40

All:  $-0.489 \pm 0.005$   $\chi^2/\text{NDF}$ : 4218.6/81

- sign  $-0.469 \pm 0.007$   $\chi^2/\text{NDF}$ : 2556.7/40

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -11.685 $\pm$ 0.067  $\chi^2$ /NDF: 952.8/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

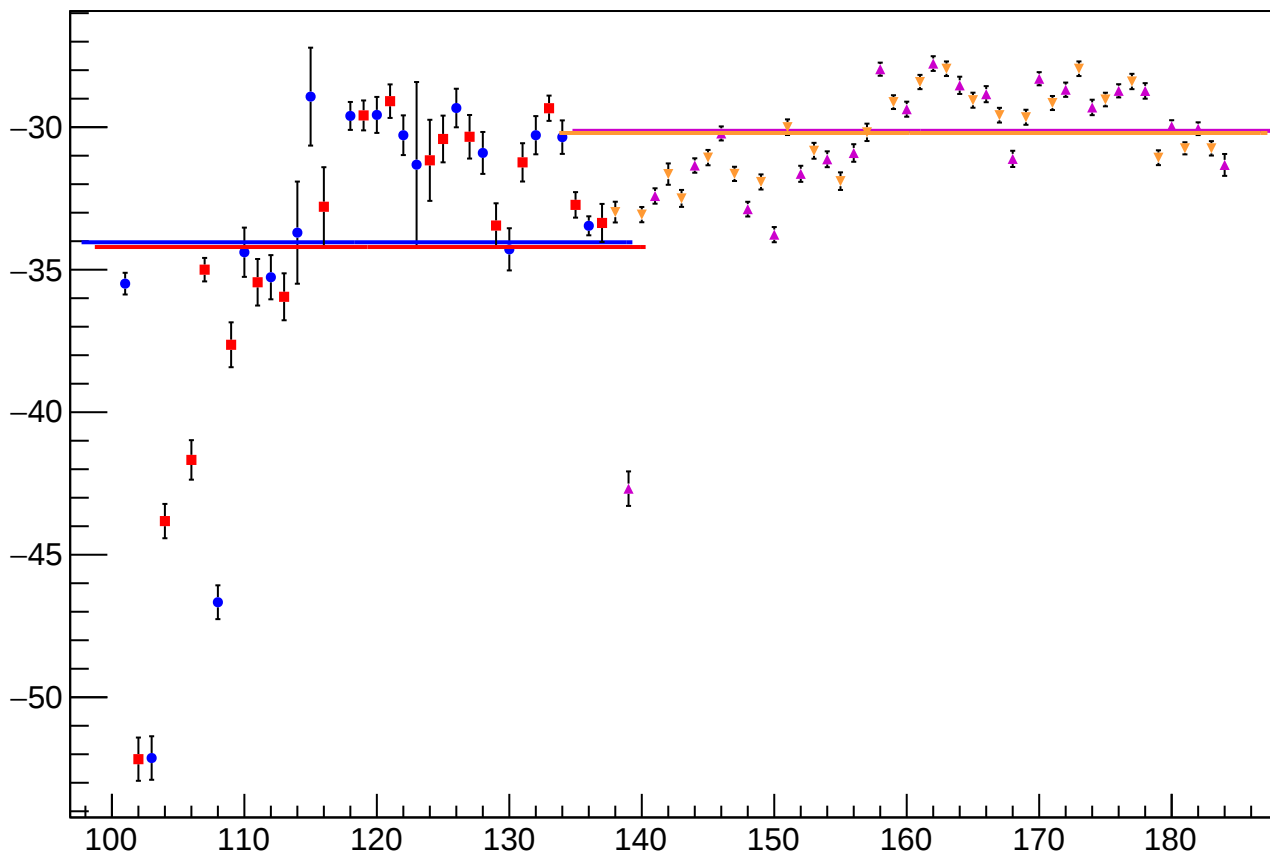
Left In: -11.352 $\pm$ 0.068  $\chi^2$ /NDF: 1280.6/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.519 $\pm$ 0.048  $\chi^2$ /NDF: 2245.7/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-34.038 \pm 0.151$   $\chi^2/\text{NDF}$ : 1342.9/16

Left Out:  $-30.203 \pm 0.054$   $\chi^2/\text{NDF}$ : 732.5/23

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

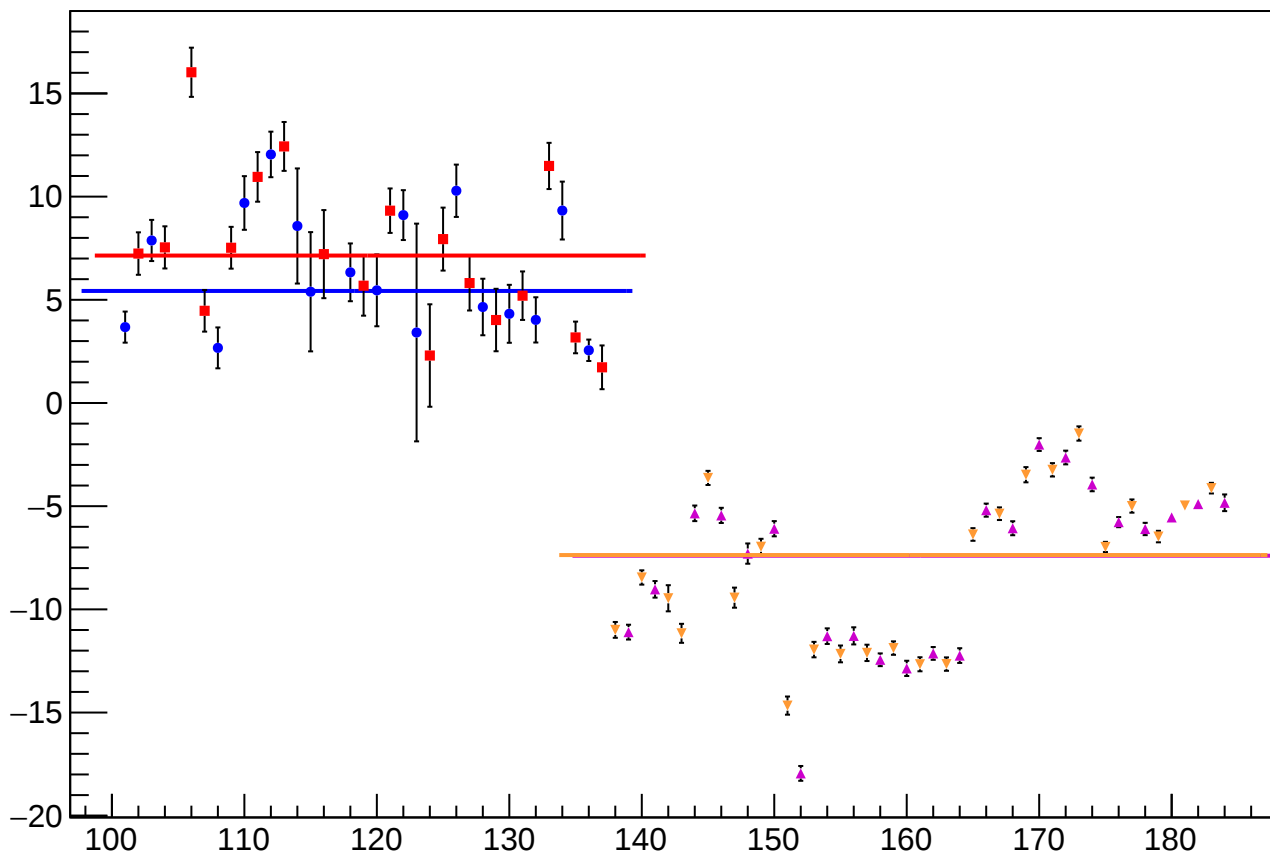
Left In:  $-30.128 \pm 0.055$   $\chi^2/\text{NDF}$ : 1290.4/22

+ sign  $-30.643 \pm 0.051$   $\chi^2/\text{NDF}$ : 2647.3/40

All:  $-30.628 \pm 0.036$   $\chi^2/\text{NDF}$ : 5902.7/81

- sign  $-30.612 \pm 0.052$   $\chi^2/\text{NDF}$ : 3255.2/40

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $5.429 \pm 0.270$   $\chi^2/\text{NDF}$ : 132.6/16

Left Out:  $-7.369 \pm 0.068$   $\chi^2/\text{NDF}$ : 2704.2/23

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

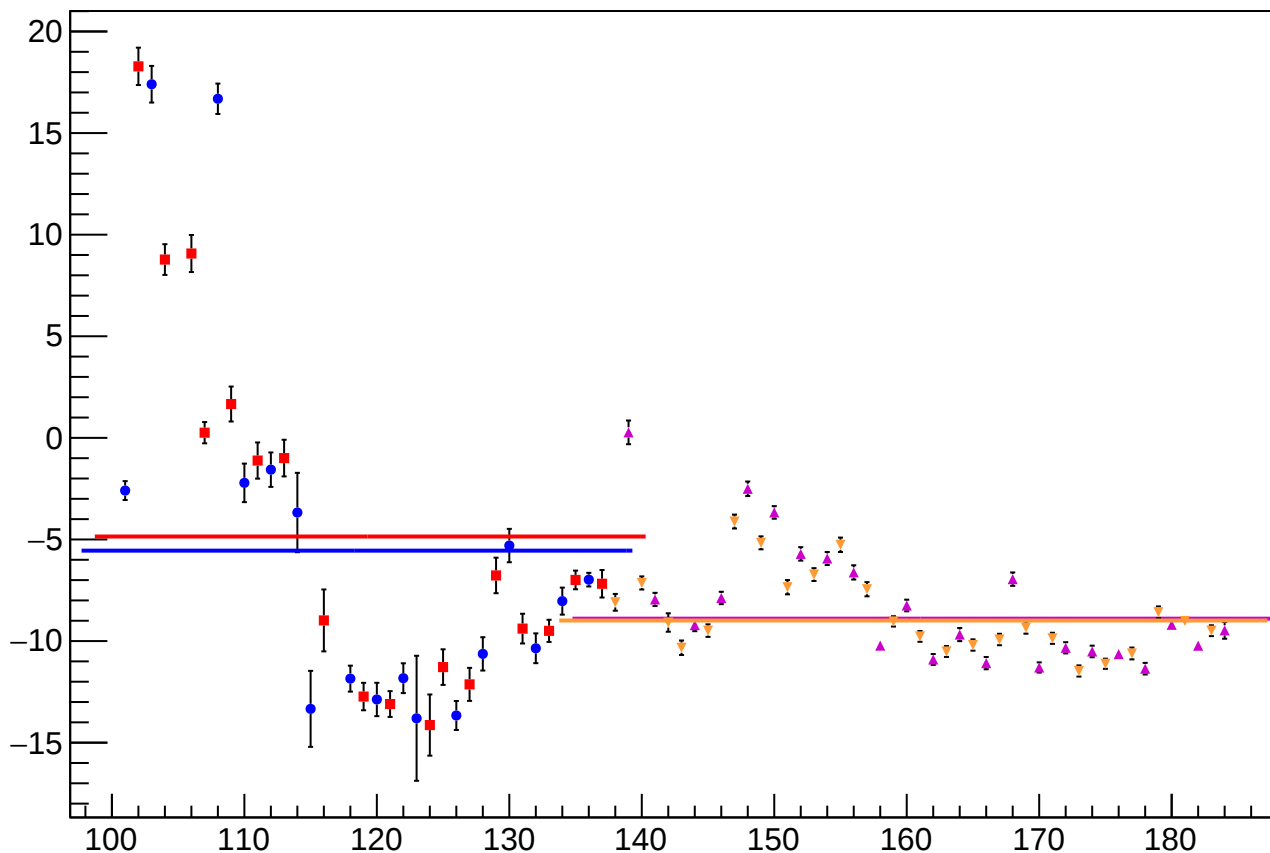
Left In:  $-7.400 \pm 0.068$   $\chi^2/\text{NDF}$ : 3134.9/22

+ sign  $-6.615 \pm 0.065$   $\chi^2/\text{NDF}$ : 4953.0/40

All:  $-6.593 \pm 0.046$   $\chi^2/\text{NDF}$ : 10905.2/81

- sign  $-6.572 \pm 0.066$   $\chi^2/\text{NDF}$ : 5951.9/40

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-5.550 \pm 0.170$   $\chi^2/\text{NDF}$ : 2126.6/16

Left Out:  $-8.988 \pm 0.061$   $\chi^2/\text{NDF}$ : 874.0/23

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

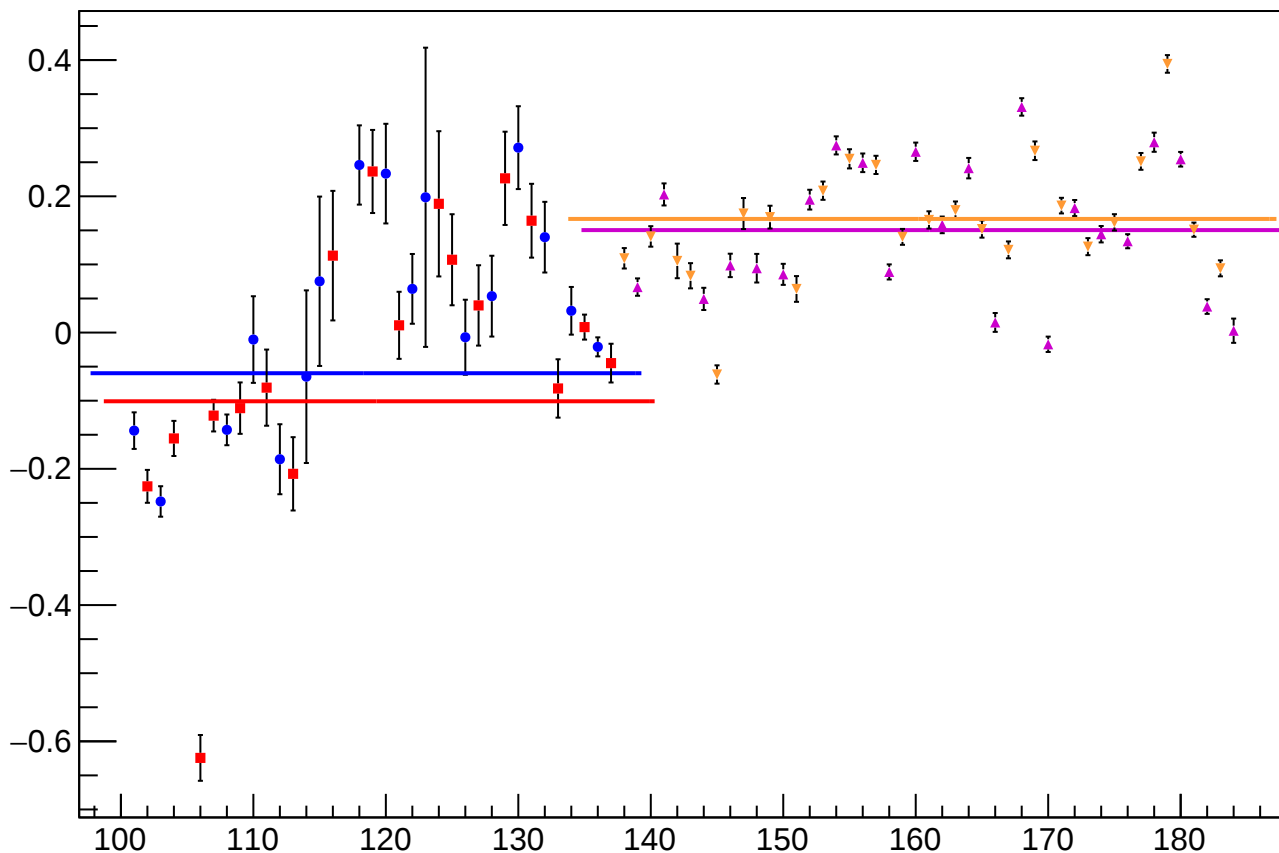
Left In:  $-8.898 \pm 0.061$   $\chi^2/\text{NDF}$ : 1584.0/22

+ sign  $-8.600 \pm 0.057$   $\chi^2/\text{NDF}$ : 3362.9/40

All:  $-8.523 \pm 0.041$   $\chi^2/\text{NDF}$ : 7449.5/81

- sign  $-8.443 \pm 0.058$   $\chi^2/\text{NDF}$ : 4082.9/40

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.060 \pm 0.008$   $\chi^2/\text{NDF}$ : 216.6/16

Left Out:  $0.167 \pm 0.003$   $\chi^2/\text{NDF}$ : 930.6/23

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

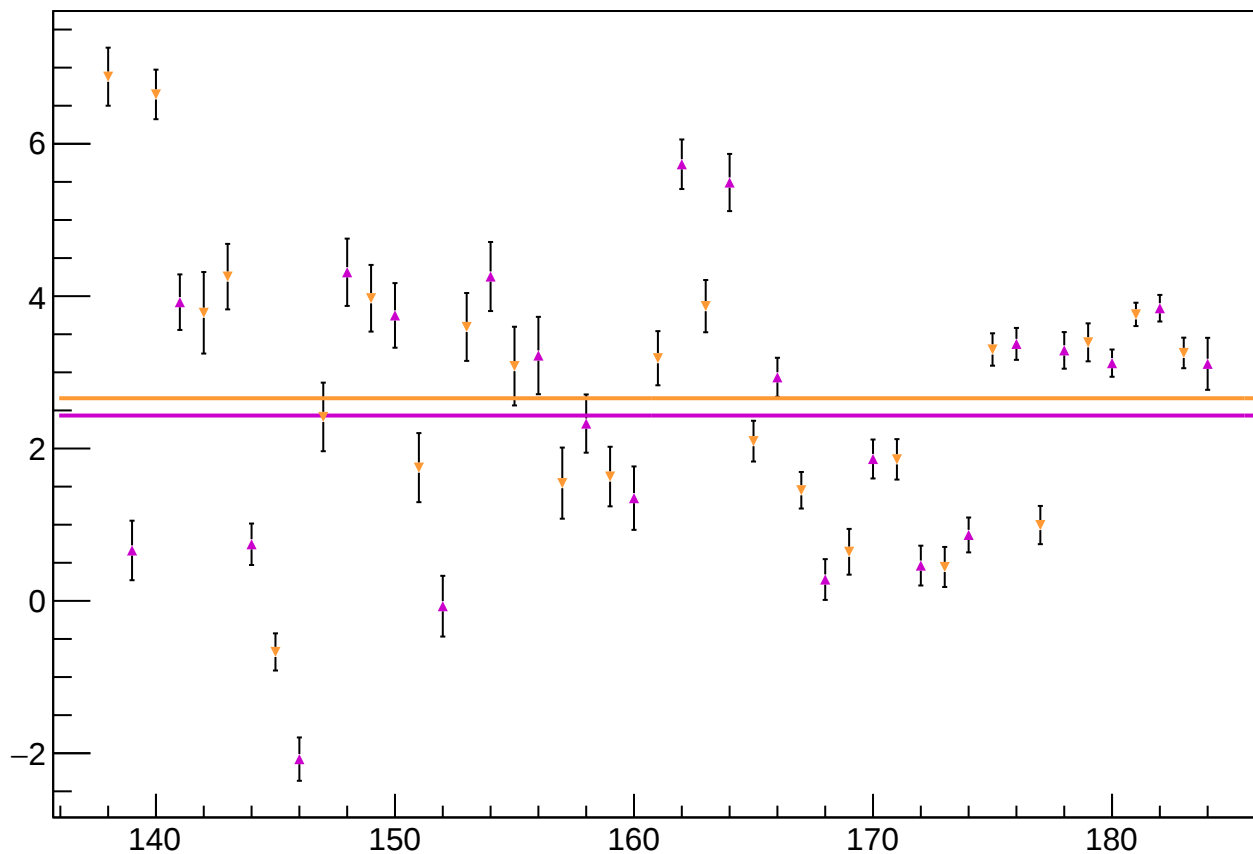
Left In:  $0.150 \pm 0.003$   $\chi^2/\text{NDF}$ : 1296.5/22

+ sign  $0.145 \pm 0.003$   $\chi^2/\text{NDF}$ : 1804.0/40

All:  $0.135 \pm 0.002$   $\chi^2/\text{NDF}$ : 4354.2/81

- sign  $0.126 \pm 0.003$   $\chi^2/\text{NDF}$ : 2525.5/40

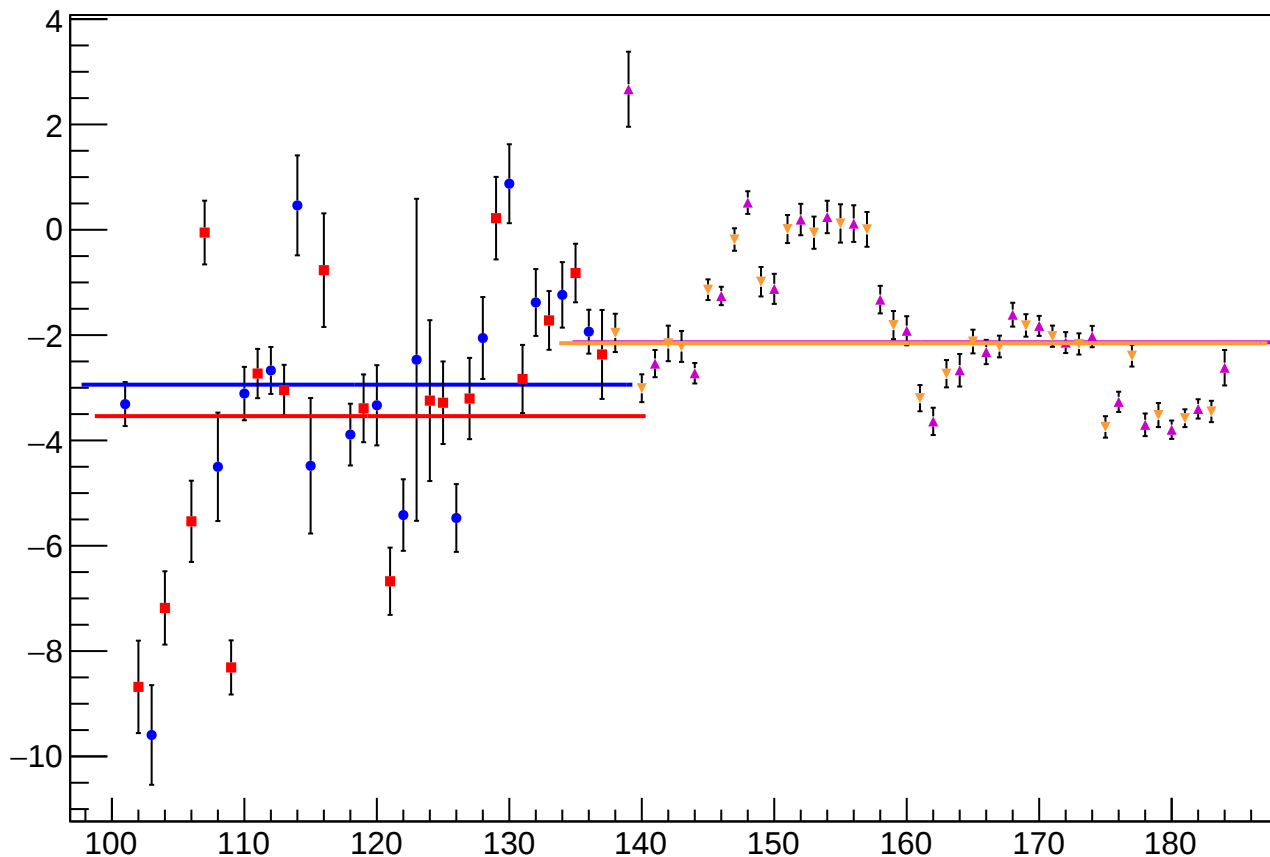
# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $2.660 \pm 0.059$   $\chi^2/\text{NDF}$ : 800.4/23  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $2.433 \pm 0.059$   $\chi^2/\text{NDF}$ : 882.9/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $2.547 \pm 0.042$   $\chi^2/\text{NDF}$ : 1690.7/46  
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.941 \pm 0.154$   $\chi^2/\text{NDF}$ : 145.6/16

Left Out:  $-2.154 \pm 0.048$   $\chi^2/\text{NDF}$ : 572.4/23

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

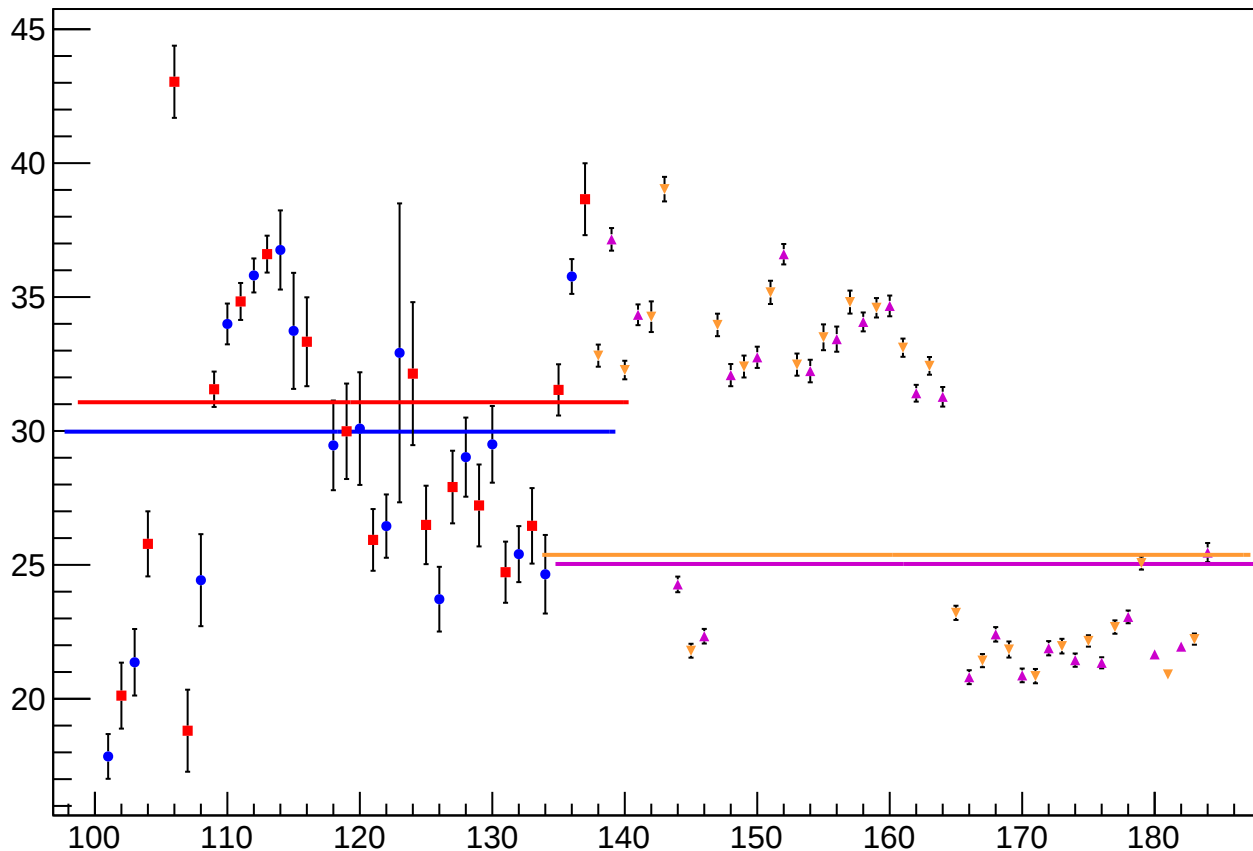
Left In:  $-2.137 \pm 0.048$   $\chi^2/\text{NDF}$ : 693.6/22

+ sign  $-2.224 \pm 0.046$   $\chi^2/\text{NDF}$ : 741.7/40

All:  $-2.242 \pm 0.033$   $\chi^2/\text{NDF}$ : 1794.0/81

- sign  $-2.261 \pm 0.046$   $\chi^2/\text{NDF}$ : 1052.0/40

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.974 $\pm$ 0.267  $\chi^2$ /NDF: 553.9/16

Left Out: 25.375 $\pm$ 0.060  $\chi^2$ /NDF: 8207.2/23

Right Out: 31.073 $\pm$ 0.260  $\chi^2$ /NDF: 453.4/17

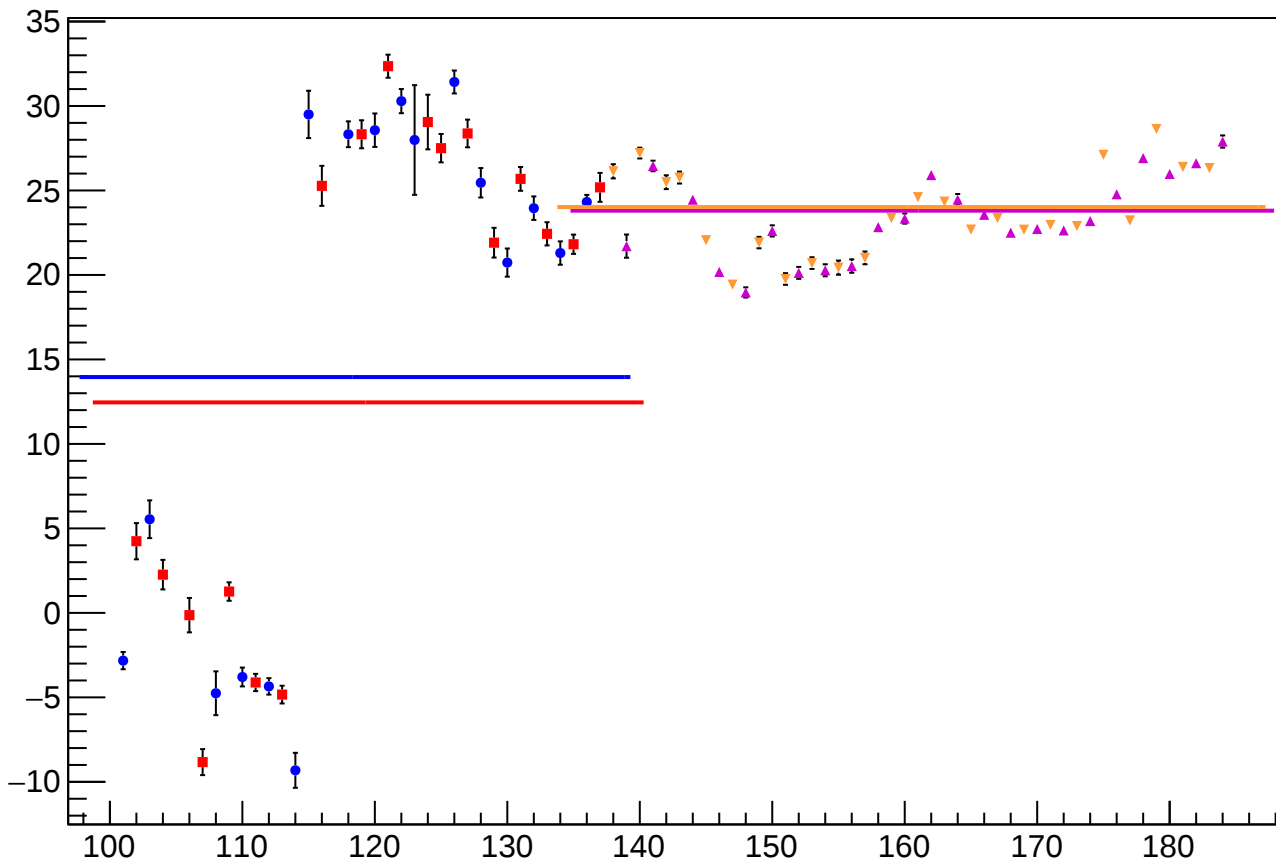
Left In: 25.034 $\pm$ 0.059  $\chi^2$ /NDF: 7690.0/22

+ sign 25.593 $\pm$ 0.058  $\chi^2$ /NDF: 9043.3/40

All: 25.462 $\pm$ 0.041  $\chi^2$ /NDF: 17707.8/81

- sign 25.332 $\pm$ 0.058  $\chi^2$ /NDF: 8654.4/40

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.957 $\pm$ 0.172  $\chi^2$ /NDF: 7348.7/16

Left Out: 24.018 $\pm$ 0.054  $\chi^2$ /NDF:1880.6/23

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

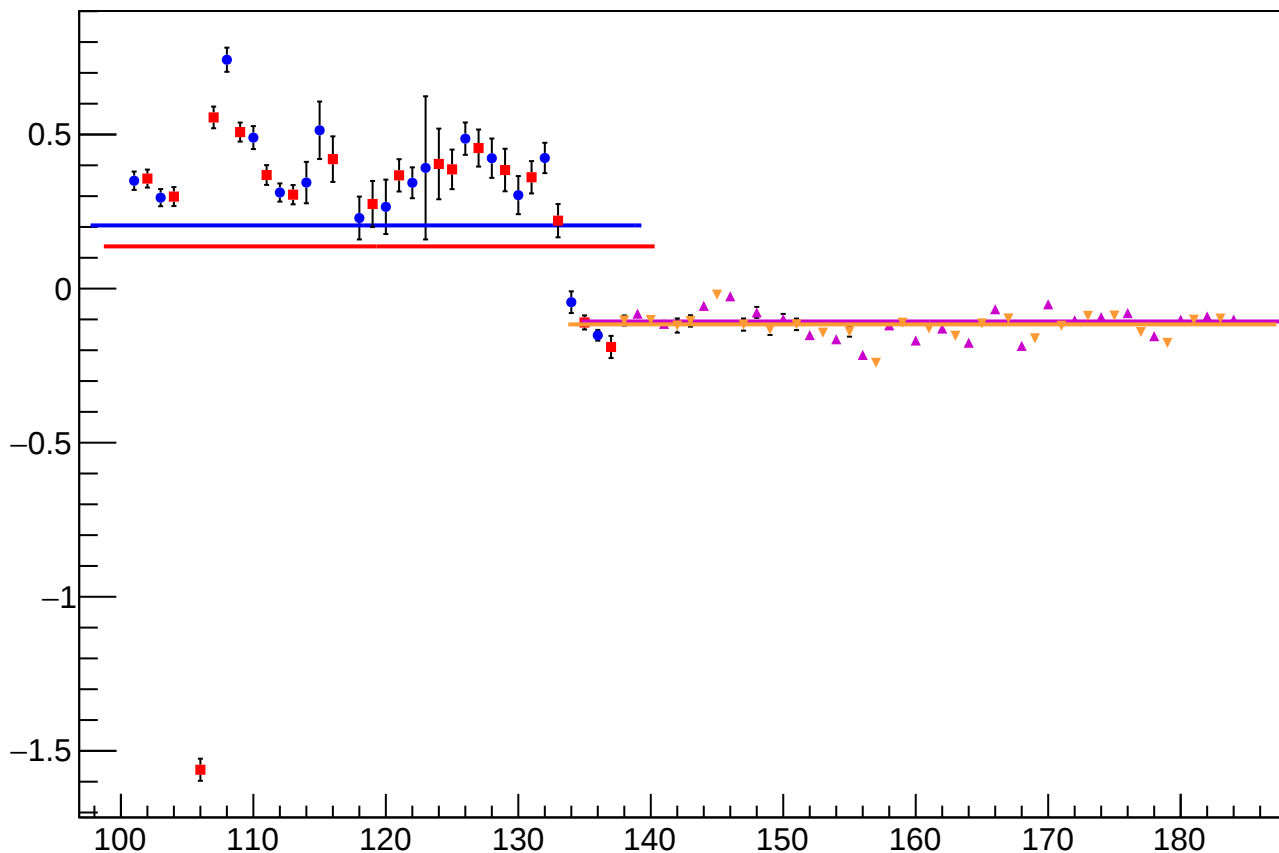
Left In: 23.804 $\pm$ 0.054  $\chi^2$ /NDF:1760.4/22

+ sign 23.123 $\pm$ 0.051  $\chi^2$ /NDF: 12335.6/40

All: 22.966 $\pm$ 0.036  $\chi^2$ /NDF: 24985.9/81

- sign 22.809 $\pm$ 0.051  $\chi^2$ /NDF: 12631.6/40

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.205 \pm 0.009$   $\chi^2/\text{NDF}$ : 846.7/16

Left Out:  $-0.116 \pm 0.002$   $\chi^2/\text{NDF}$ : 258.6/23

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}$ : 3007.9/17

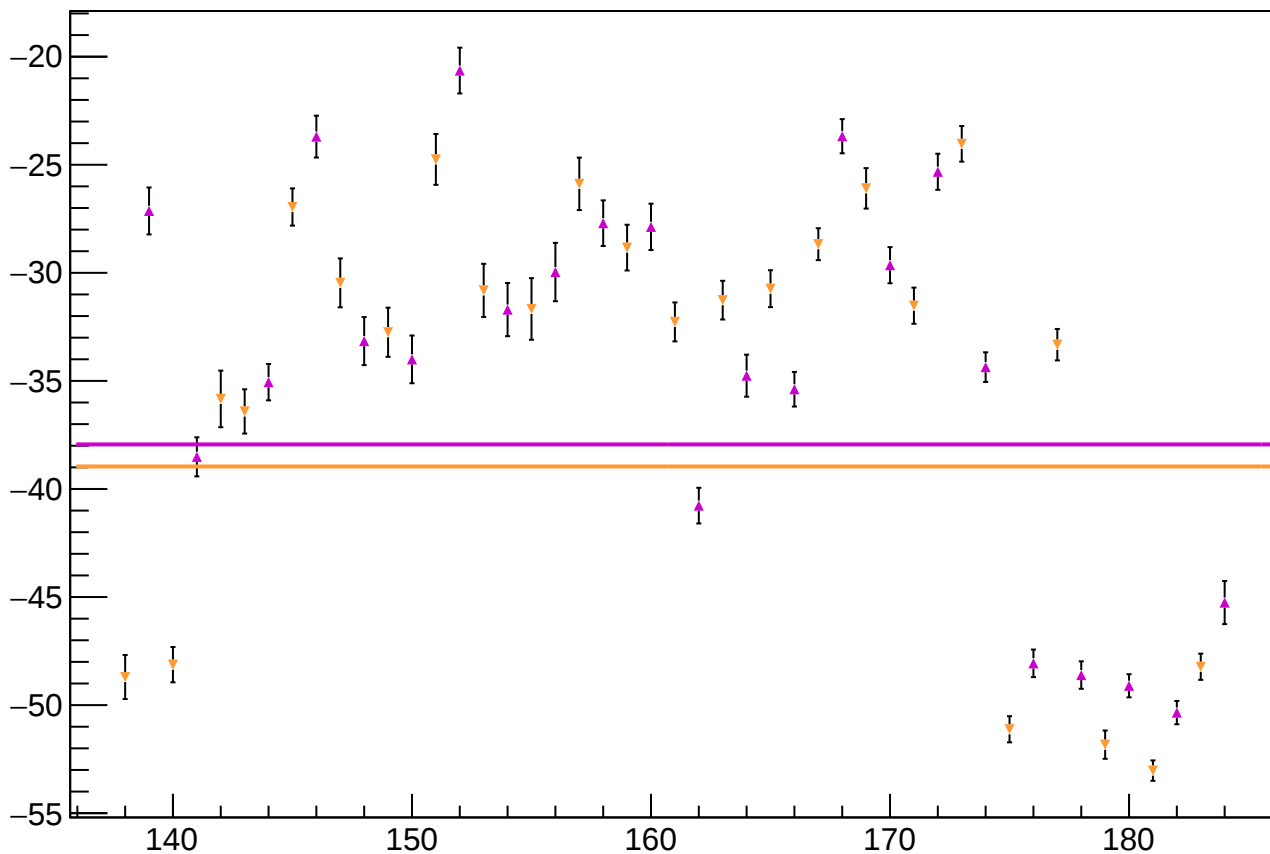
Left In:  $-0.107 \pm 0.002$   $\chi^2/\text{NDF}$ : 322.0/22

+ sign  $-0.095 \pm 0.002$   $\chi^2/\text{NDF}$ : 2203.7/40

All:  $-0.093 \pm 0.002$   $\chi^2/\text{NDF}$ : 6188.1/81

- sign  $-0.091 \pm 0.002$   $\chi^2/\text{NDF}$ : 3982.4/40

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -38.959+/-0.171  $\chi^2/\text{NDF}$ : 3921.5/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

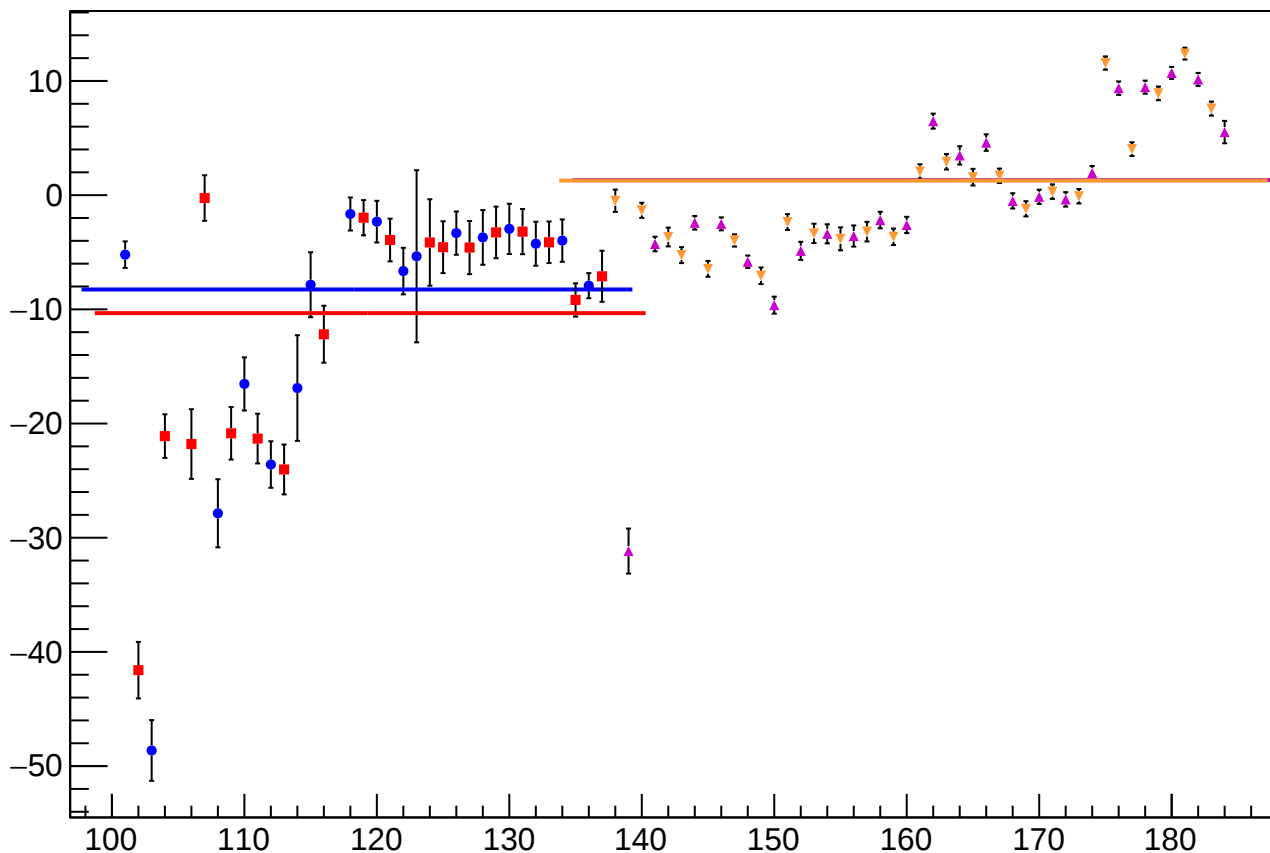
Left In: -37.939+/-0.173  $\chi^2/\text{NDF}$ : 3133.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -38.454+/-0.121  $\chi^2/\text{NDF}$ : 7072.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-8.261 \pm 0.463$   $\chi^2/\text{NDF}: 411.9/16$

Left Out:  $1.275 \pm 0.137$   $\chi^2/\text{NDF}: 1737.1/23$

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}: 410.9/17$

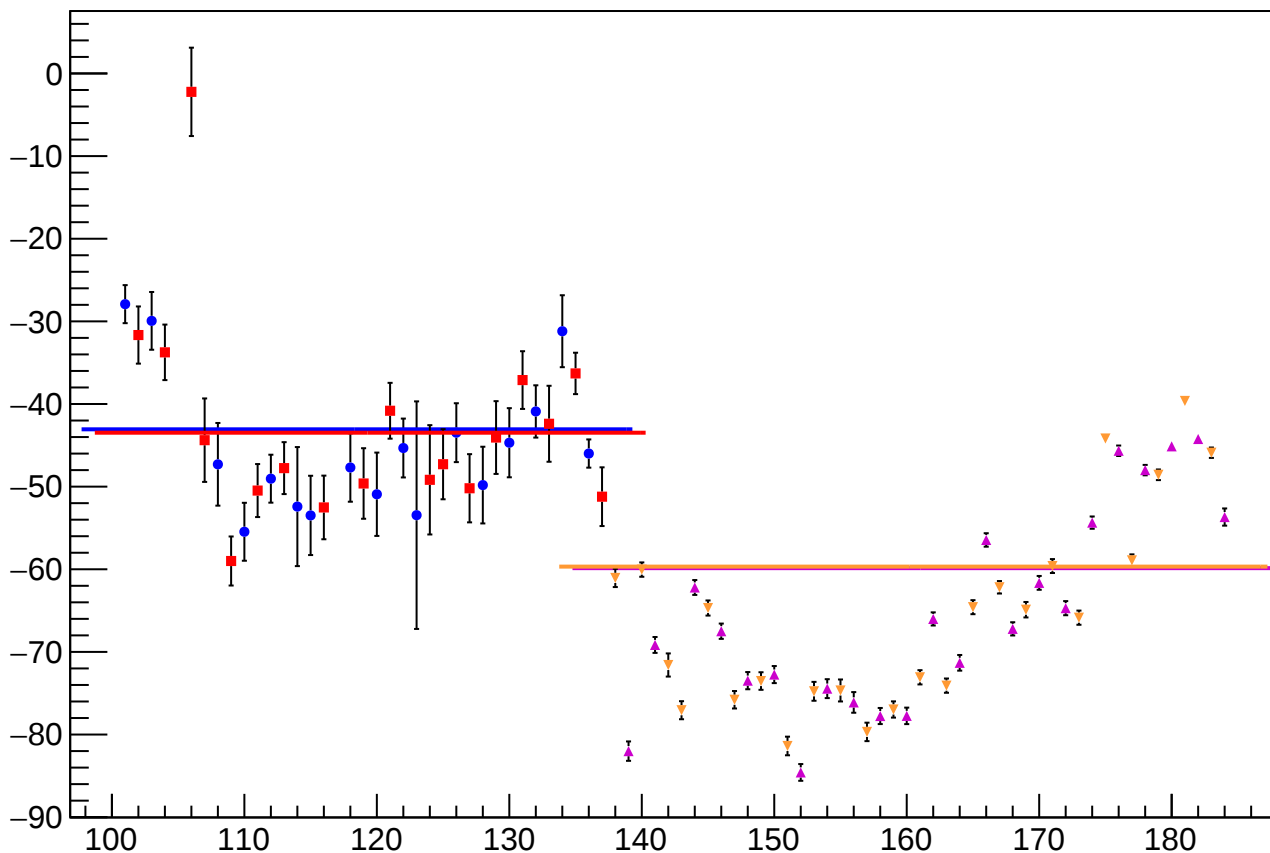
Left In:  $1.319 \pm 0.139$   $\chi^2/\text{NDF}: 2080.7/22$

+ sign  $0.505 \pm 0.131$   $\chi^2/\text{NDF}: 2539.5/40$

All:  $0.478 \pm 0.094$   $\chi^2/\text{NDF}: 5552.1/81$

- sign  $0.449 \pm 0.134$   $\chi^2/\text{NDF}: 3012.5/40$

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-43.064 \pm 0.835$   $\chi^2/\text{NDF}: 99.0/16$

Left Out:  $-59.678 \pm 0.172$   $\chi^2/\text{NDF}: 5816.9/23$

Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$

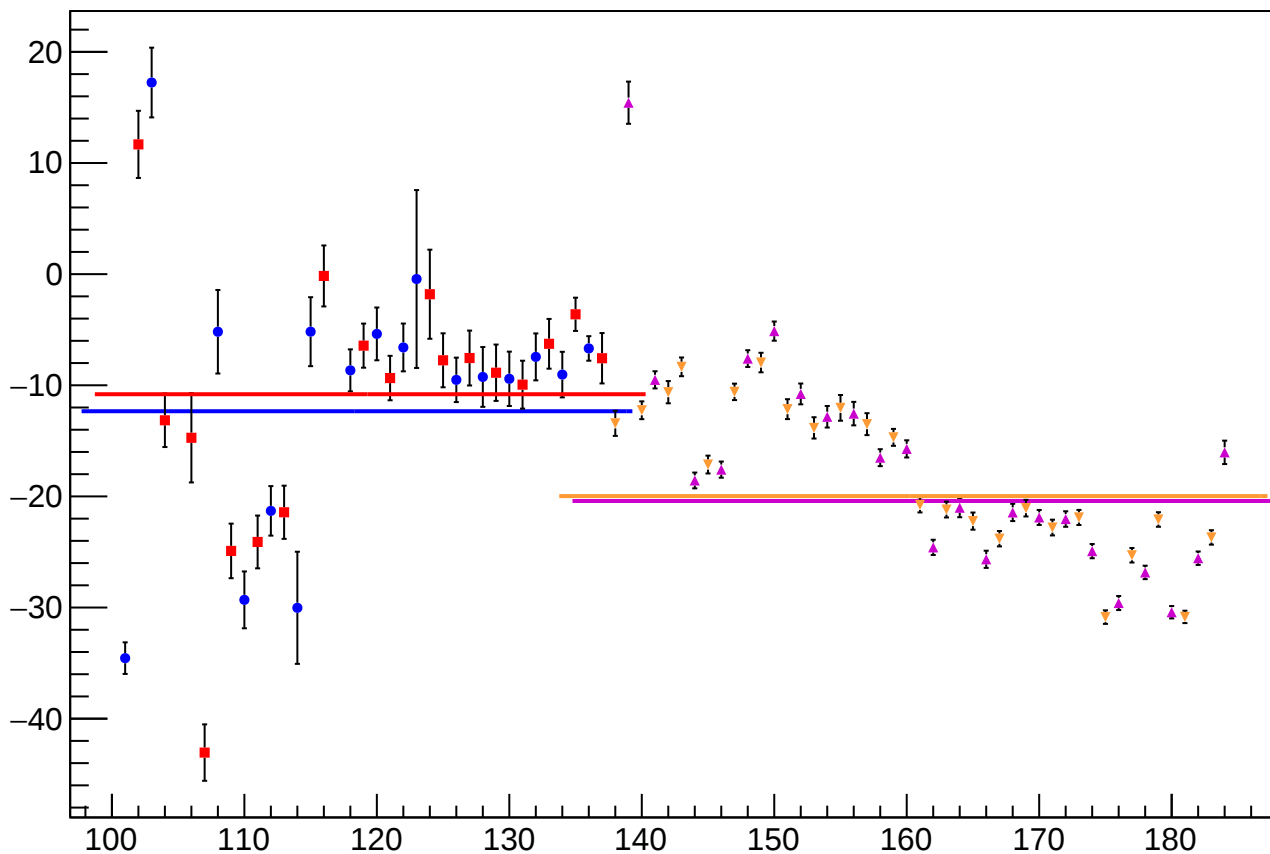
Left In:  $-59.864 \pm 0.173$   $\chi^2/\text{NDF}: 5275.1/22$

+ sign  $-59.004 \pm 0.168$   $\chi^2/\text{NDF}: 6295.4/40$

All:  $-59.122 \pm 0.119$   $\chi^2/\text{NDF}: 12056.3/81$

- sign  $-59.241 \pm 0.169$   $\chi^2/\text{NDF}: 5759.8/40$

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.336 \pm 0.520$   $\chi^2/\text{NDF}$ : 475.2/16

Left Out:  $-19.973 \pm 0.154$   $\chi^2/\text{NDF}$ : 1899.5/23

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

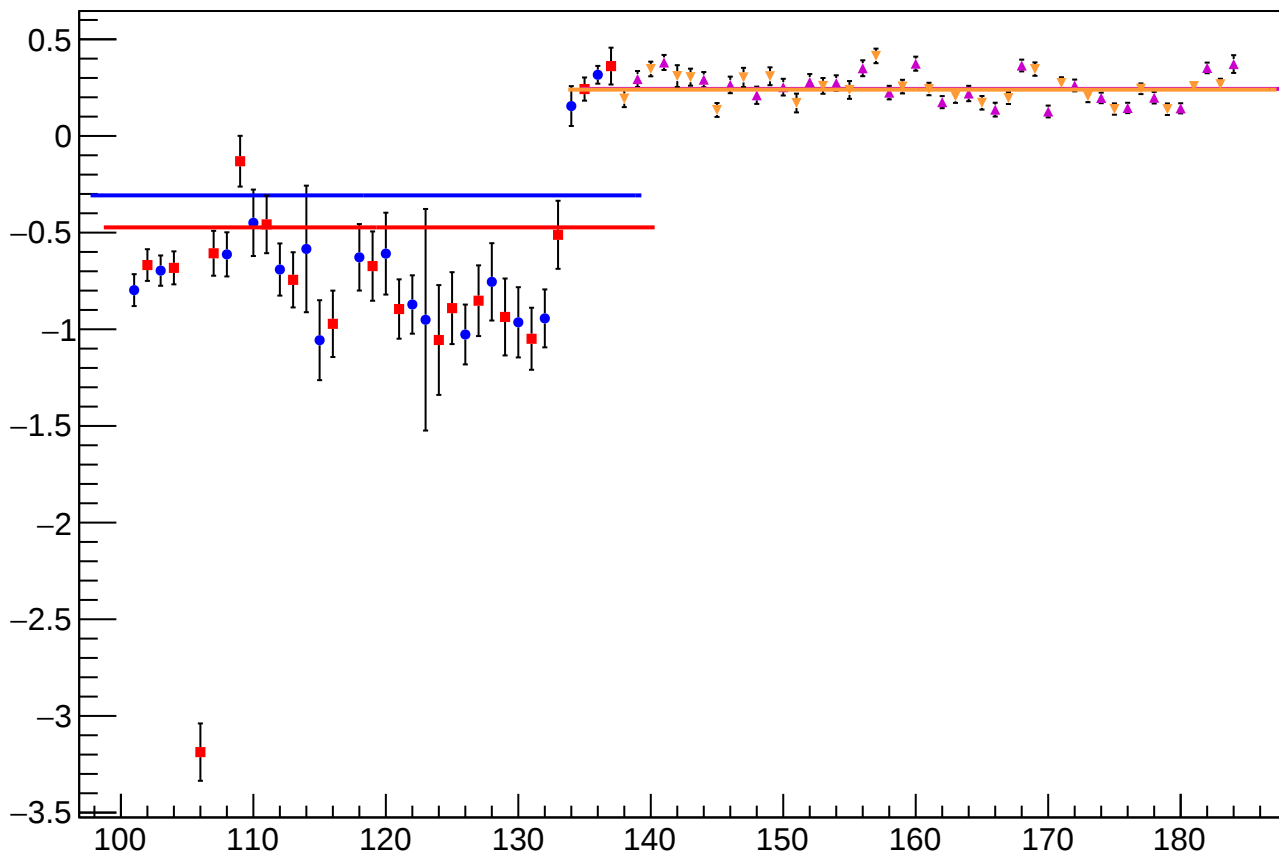
Left In:  $-20.412 \pm 0.156$   $\chi^2/\text{NDF}$ : 2345.4/22

+ sign  $-19.357 \pm 0.148$   $\chi^2/\text{NDF}$ : 2572.6/40

All:  $-19.527 \pm 0.105$   $\chi^2/\text{NDF}$ : 5561.0/81

- sign  $-19.704 \pm 0.150$   $\chi^2/\text{NDF}$ : 2985.7/40

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.307 \pm 0.028$   $\chi^2/\text{NDF}$ : 372.2/16

Left Out:  $0.240 \pm 0.007$   $\chi^2/\text{NDF}$ : 92.6/23

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

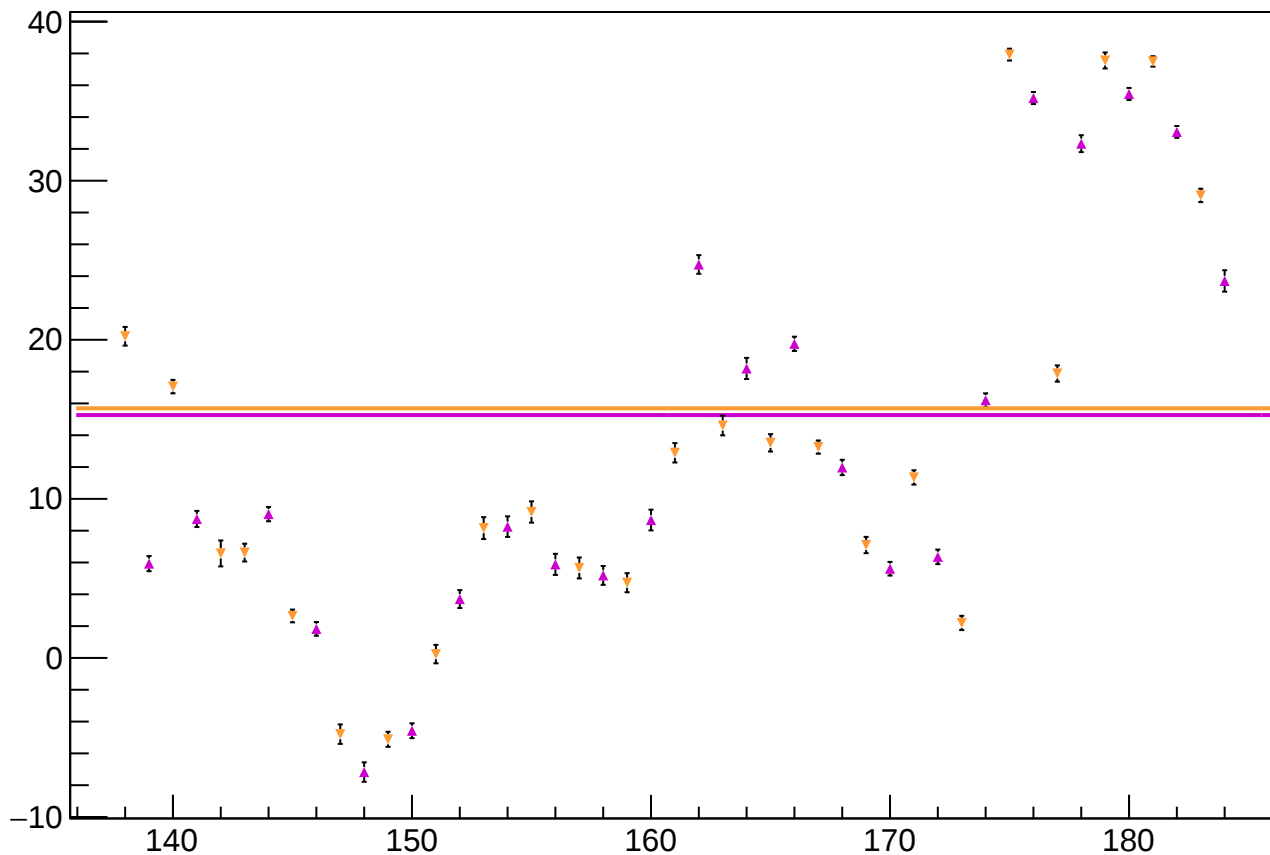
Left In:  $0.243 \pm 0.007$   $\chi^2/\text{NDF}$ : 139.2/22

+ sign  $0.205 \pm 0.007$   $\chi^2/\text{NDF}$ : 834.8/40

All:  $0.203 \pm 0.005$   $\chi^2/\text{NDF}$ : 2190.5/81

- sign  $0.201 \pm 0.007$   $\chi^2/\text{NDF}$ : 1355.5/40

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 15.694 $\pm$ 0.102  $\chi^2$ /NDF:18310.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

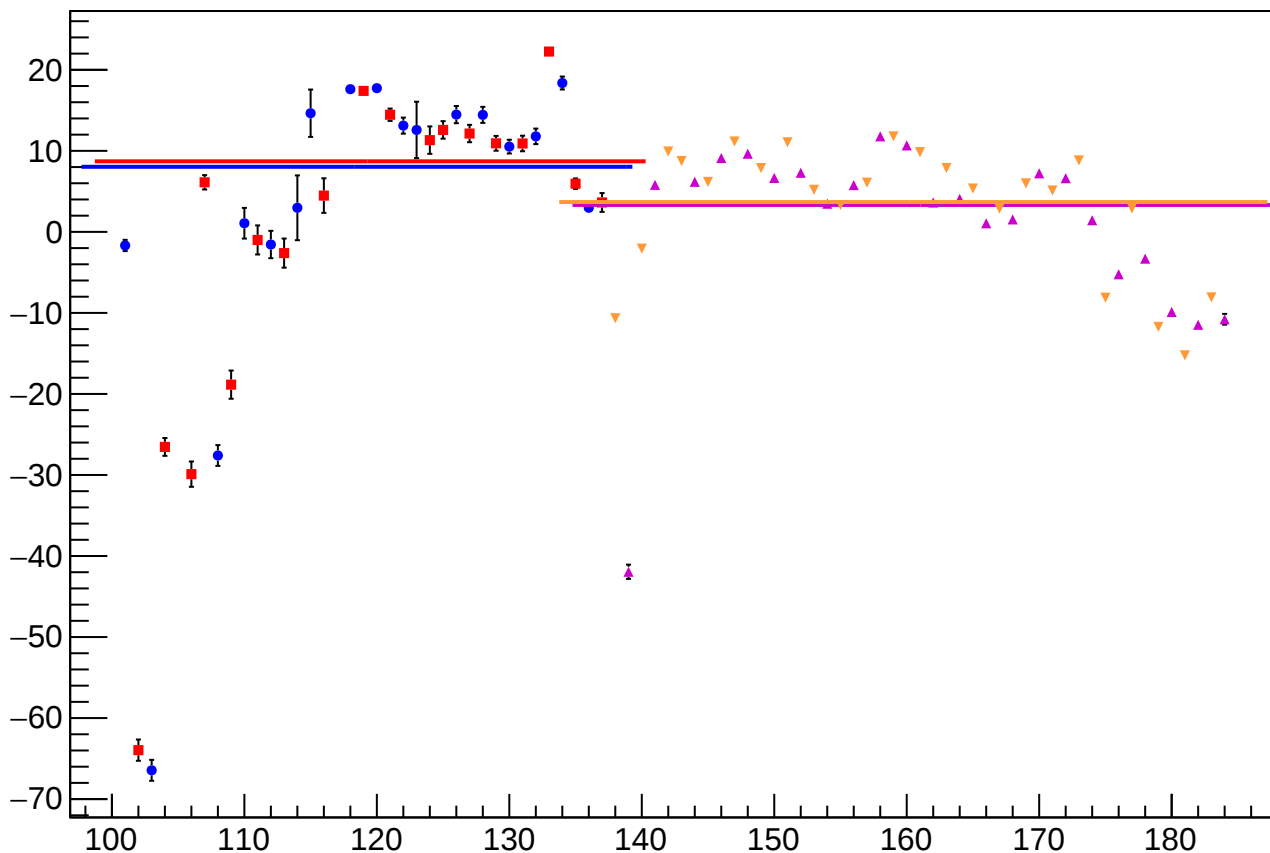
Left In: 15.268 $\pm$ 0.102  $\chi^2$ /NDF:16406.3/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.482 $\pm$ 0.072  $\chi^2$ /NDF: 34725.0/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $8.035 \pm 0.215$   $\chi^2/\text{NDF}$ : 5370.3/16

Left Out:  $3.682 \pm 0.079$   $\chi^2/\text{NDF}$ : 9210.4/23

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}$ : 6290.2/17

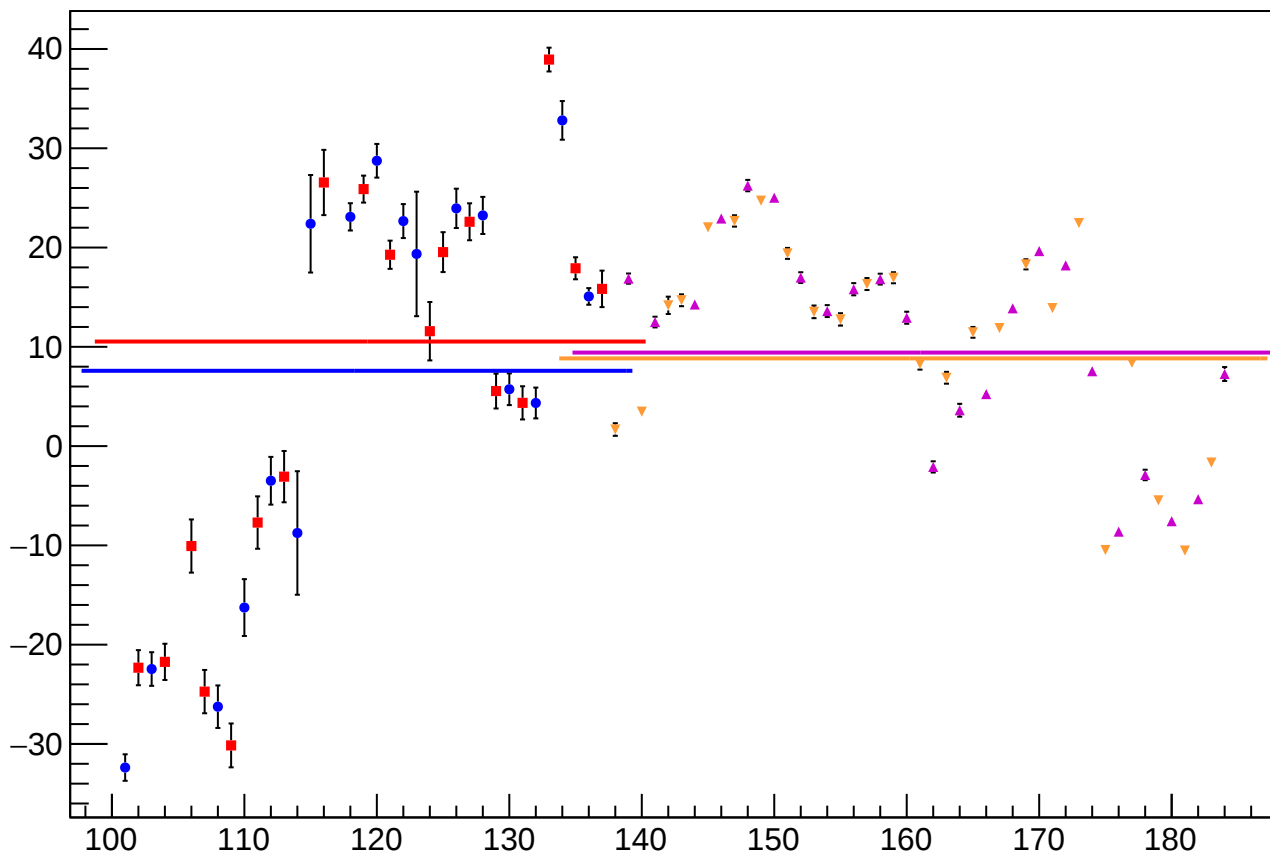
Left In:  $3.327 \pm 0.081$   $\chi^2/\text{NDF}$ : 8830.5/22

+ sign  $4.203 \pm 0.074$   $\chi^2/\text{NDF}$ : 14940.4/40

All:  $4.106 \pm 0.053$   $\chi^2/\text{NDF}$ : 30621.5/81

- sign  $4.006 \pm 0.076$   $\chi^2/\text{NDF}$ : 15677.6/40

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $7.585 \pm 0.416$   $\chi^2/\text{NDF}: 2322.7/16$

Left Out:  $8.834 \pm 0.102$   $\chi^2/\text{NDF}: 12790.4/23$

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}: 2279.5/17$

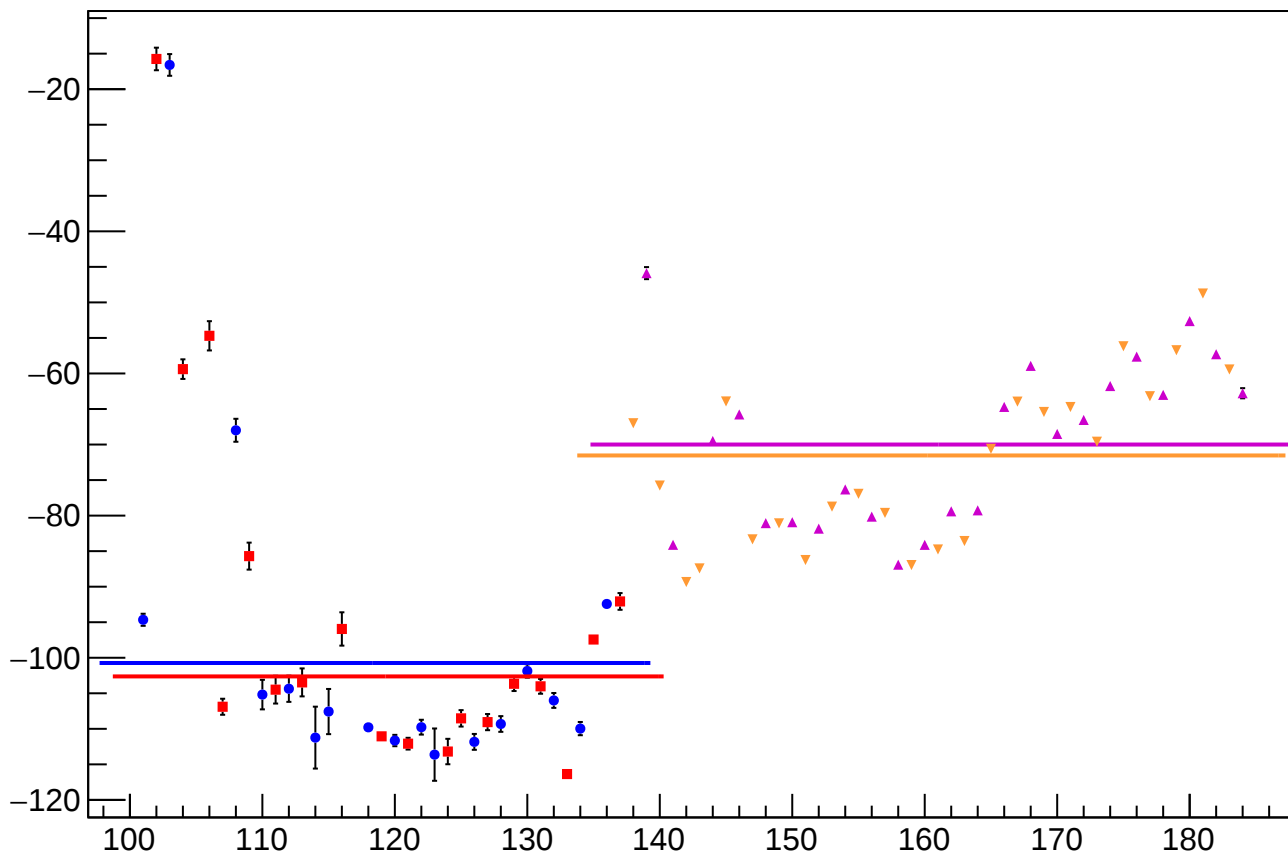
Left In:  $9.420 \pm 0.102$   $\chi^2/\text{NDF}: 12078.1/22$

+ sign  $8.763 \pm 0.099$   $\chi^2/\text{NDF}: 15121.6/40$

All:  $9.123 \pm 0.070$   $\chi^2/\text{NDF}: 29512.3/81$

- sign  $9.483 \pm 0.099$   $\chi^2/\text{NDF}: 14364.3/40$

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-100.736 \pm 0.248$   $\chi^2/\text{NDF}$ : 4520.6/16

Left Out:  $-71.535 \pm 0.090$   $\chi^2/\text{NDF}$ : 16377.3/23

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}$ : 5716.3/17

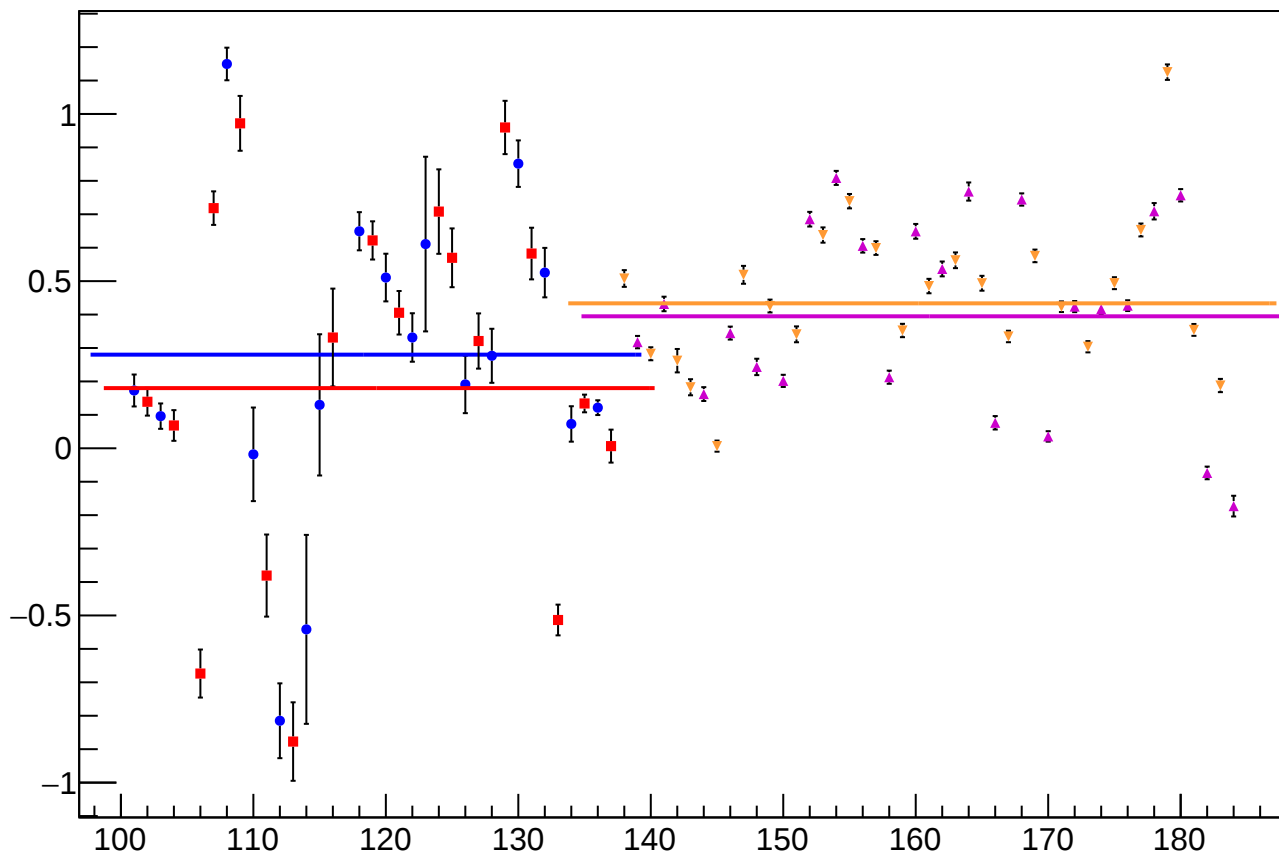
Left In:  $-69.999 \pm 0.091$   $\chi^2/\text{NDF}$ : 13188.0/22

+ sign  $-74.930 \pm 0.085$   $\chi^2/\text{NDF}$ : 33120.0/40

All:  $-74.448 \pm 0.060$   $\chi^2/\text{NDF}$ : 67533.7/81

- sign  $-73.954 \pm 0.086$   $\chi^2/\text{NDF}$ : 34348.1/40

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.280 \pm 0.013$   $\chi^2/\text{NDF}$ : 656.4/16

Left Out:  $0.434 \pm 0.004$   $\chi^2/\text{NDF}$ : 2645.5/23

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

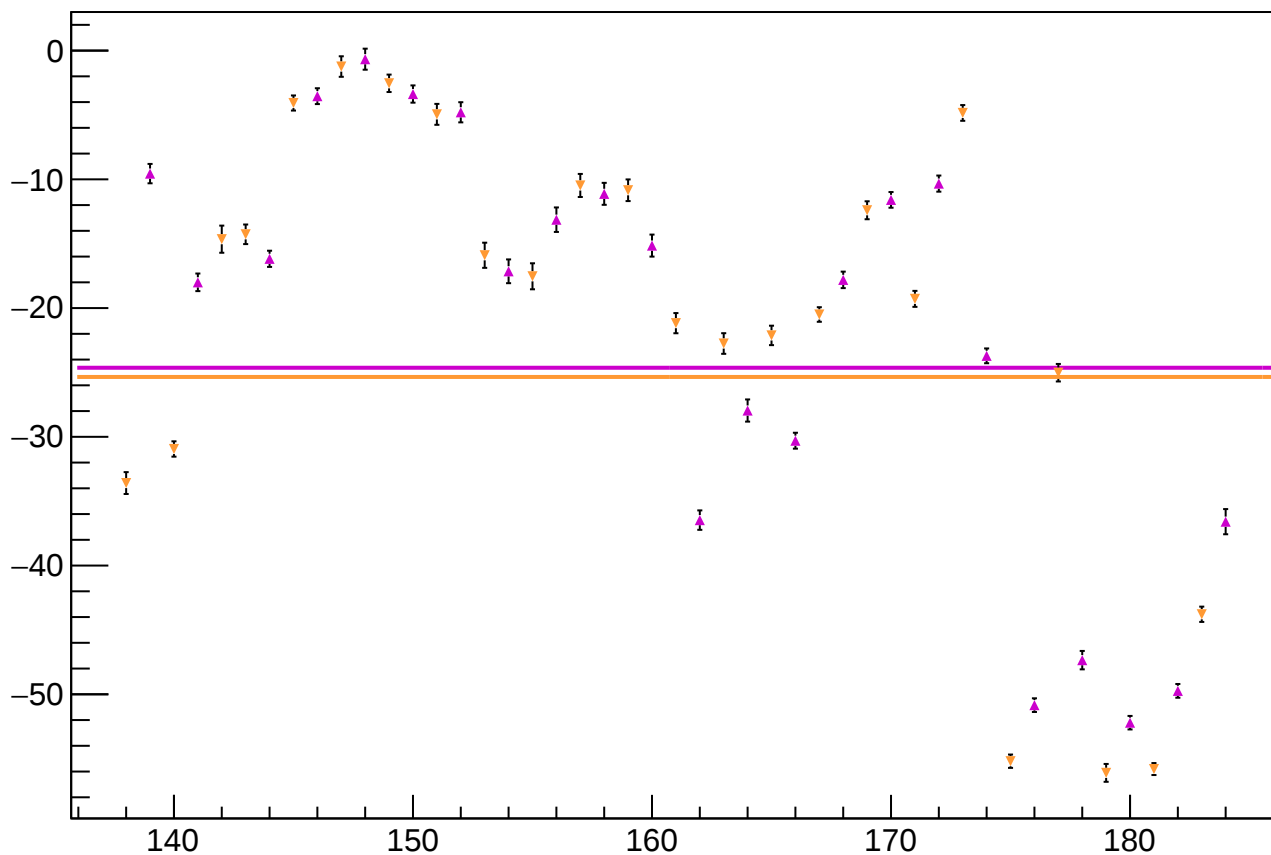
Left In:  $0.395 \pm 0.004$   $\chi^2/\text{NDF}$ : 4063.1/22

+ sign  $0.420 \pm 0.004$   $\chi^2/\text{NDF}$ : 3420.3/40

All:  $0.398 \pm 0.003$   $\chi^2/\text{NDF}$ : 8714.3/81

- sign  $0.376 \pm 0.004$   $\chi^2/\text{NDF}$ : 5232.2/40

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.350+/-0.141  $\chi^2/\text{NDF}$ : 17453.2/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

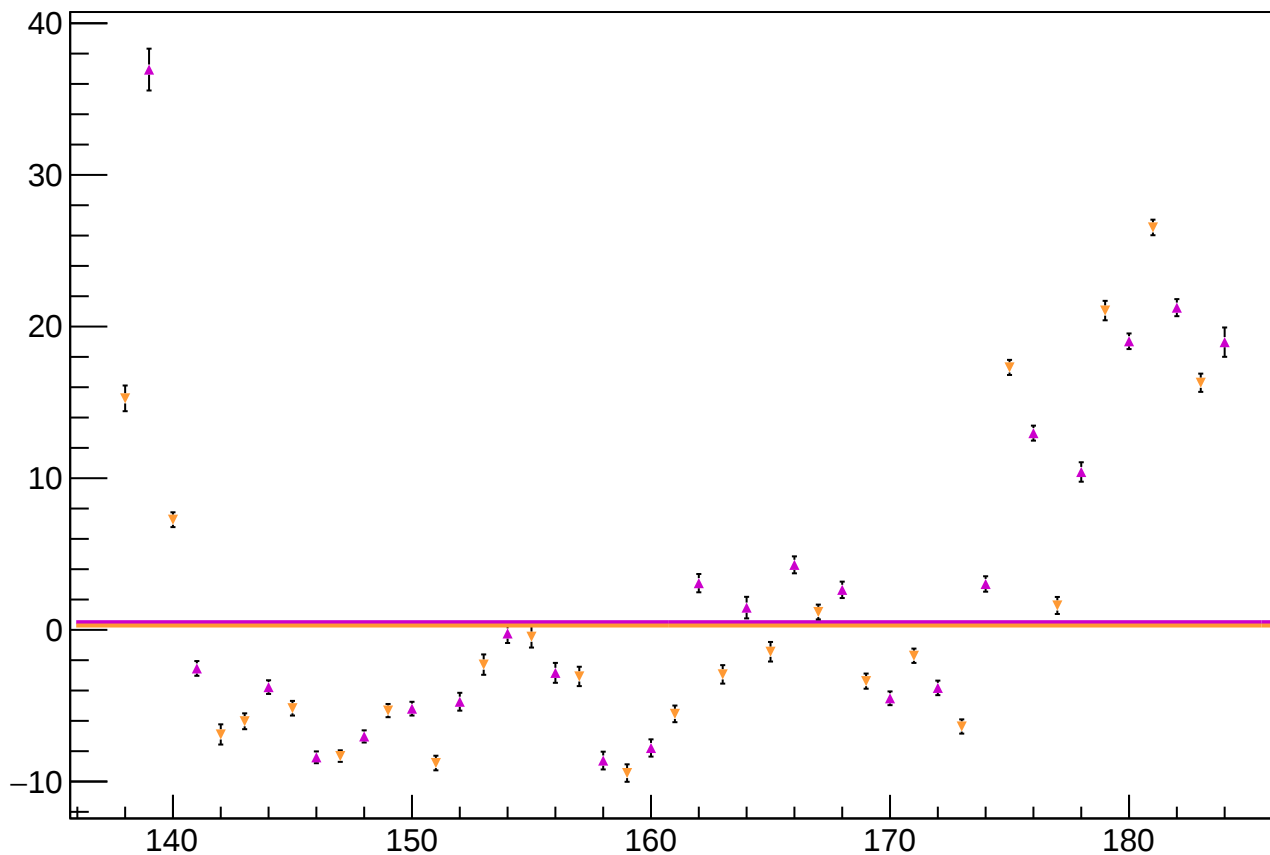
Left In: -24.635+/-0.142  $\chi^2/\text{NDF}$ : 14947.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.996+/-0.100  $\chi^2/\text{NDF}$ : 32413.9/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.286 $\pm$ 0.109  $\chi^2$ /NDF:8233.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

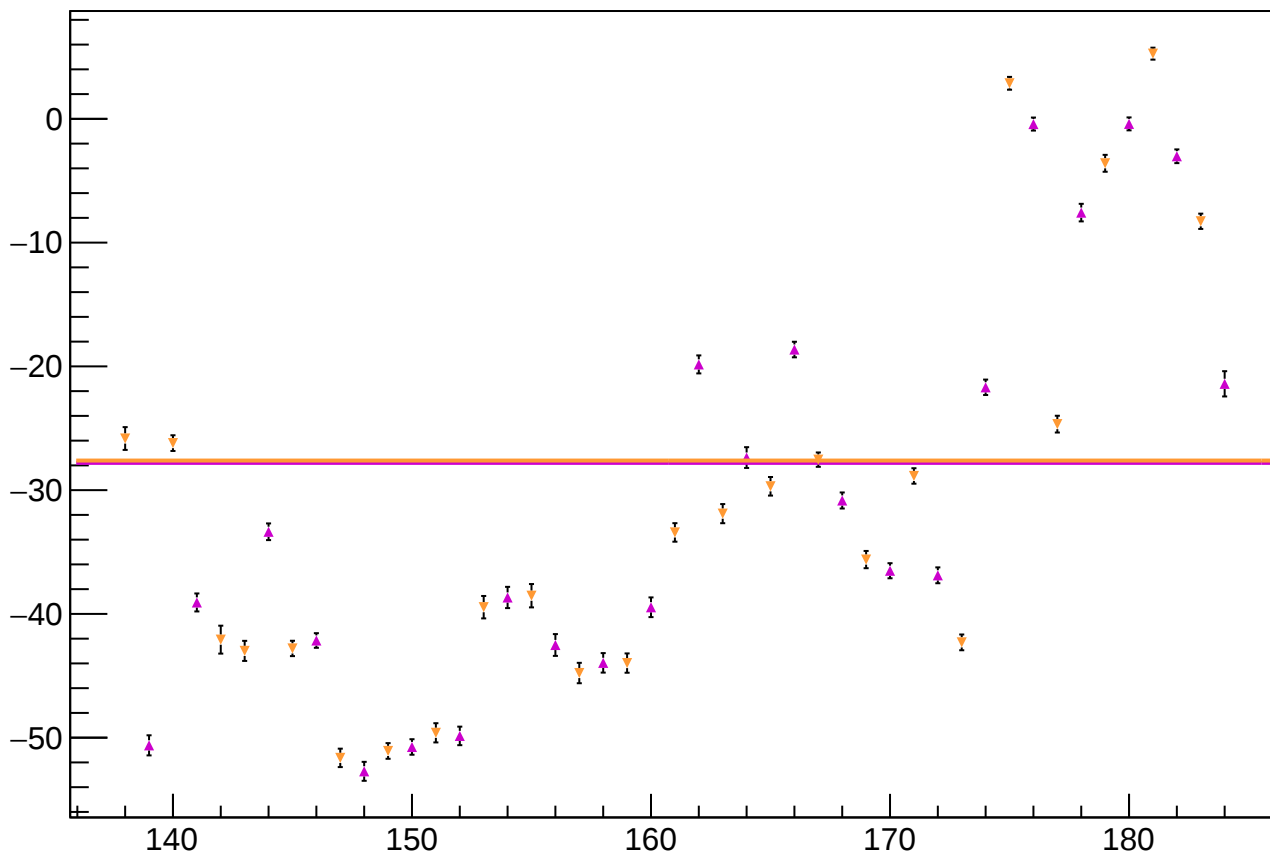
Left In: 0.507 $\pm$ 0.112  $\chi^2$ /NDF:6626.9/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.394 $\pm$ 0.078  $\chi^2$ /NDF: 14862.2/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -27.609+/-0.141  $\chi^2/\text{NDF}$ : 16616.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

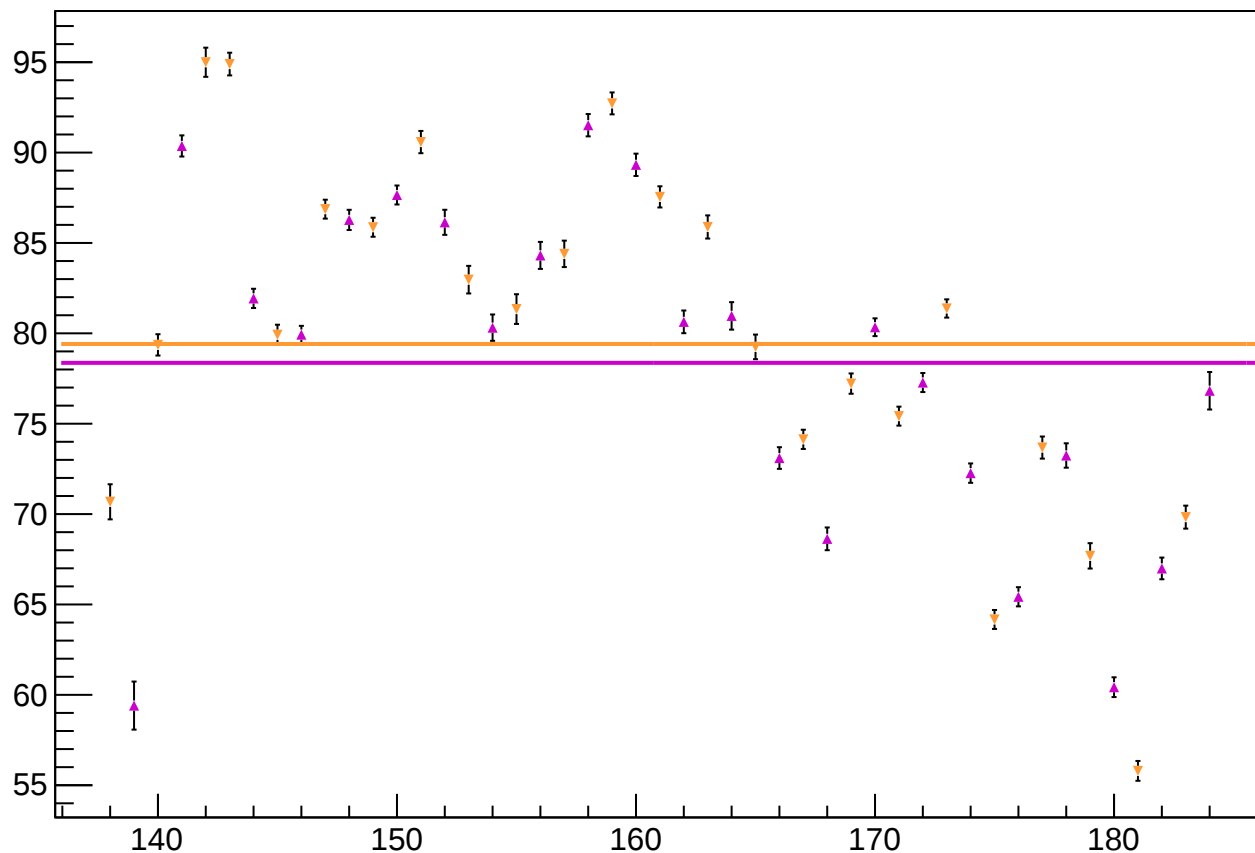
Left In: -27.796+/-0.142  $\chi^2/\text{NDF}$ : 15193.3/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -27.702+/-0.100  $\chi^2/\text{NDF}$ : 31810.5/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 79.411+/-0.124  $\chi^2/\text{NDF}$ : 6074.4/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

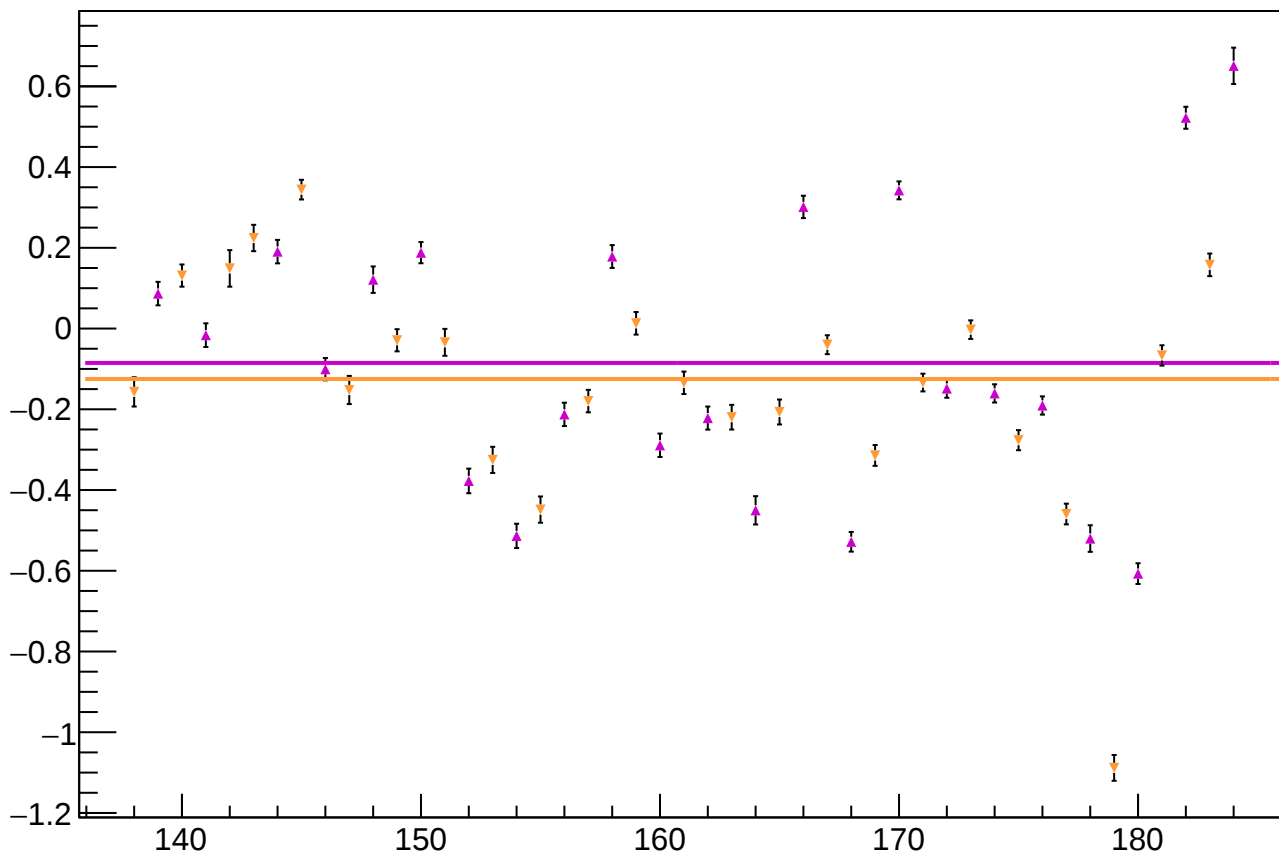
Left In: 78.367+/-0.126  $\chi^2/\text{NDF}$ : 4735.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 78.898+/-0.089  $\chi^2/\text{NDF}$ : 10844.6/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

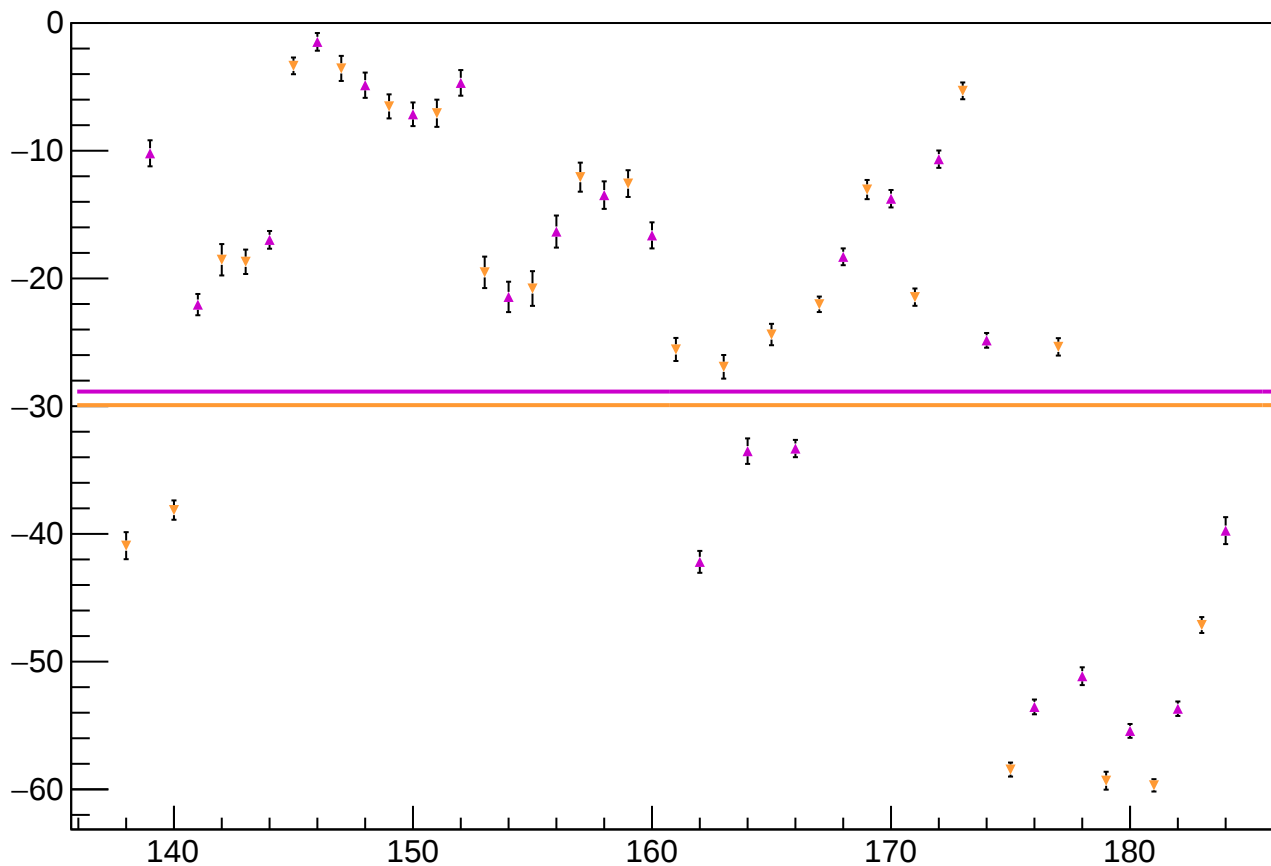
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.125 $\pm$ 0.006  $\chi^2$ /NDF:2130.1/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.085 $\pm$ 0.006  $\chi^2$ /NDF:3148.4/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.105 $\pm$ 0.004  $\chi^2$ /NDF: 5302.4/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.918+/-0.158  $\chi^2/\text{NDF}$ :15903.6/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

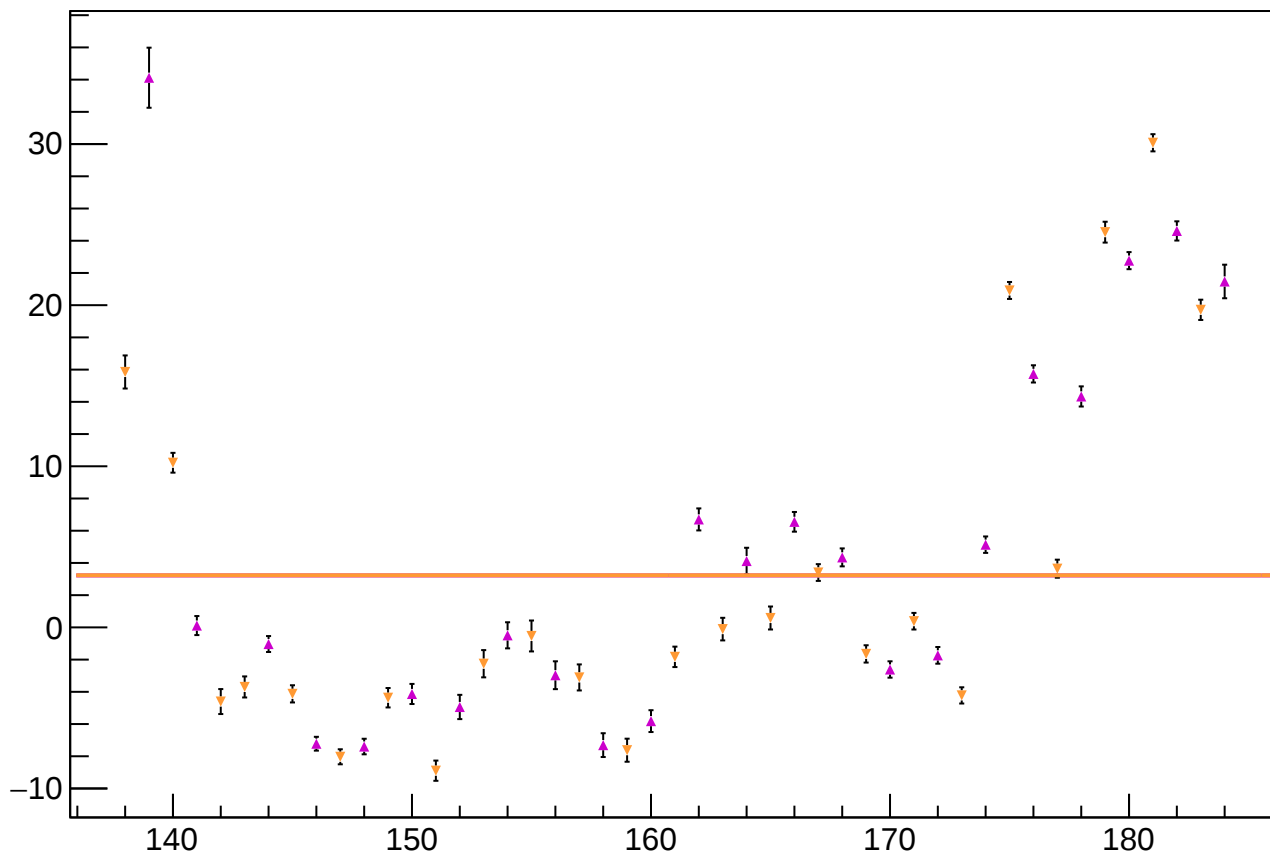
Left In: -28.857+/-0.159  $\chi^2/\text{NDF}$ :13553.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.390+/-0.112  $\chi^2/\text{NDF}$ : 29479.5/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.234+/-0.125  $\chi^2/\text{NDF}$ : 8010.9/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

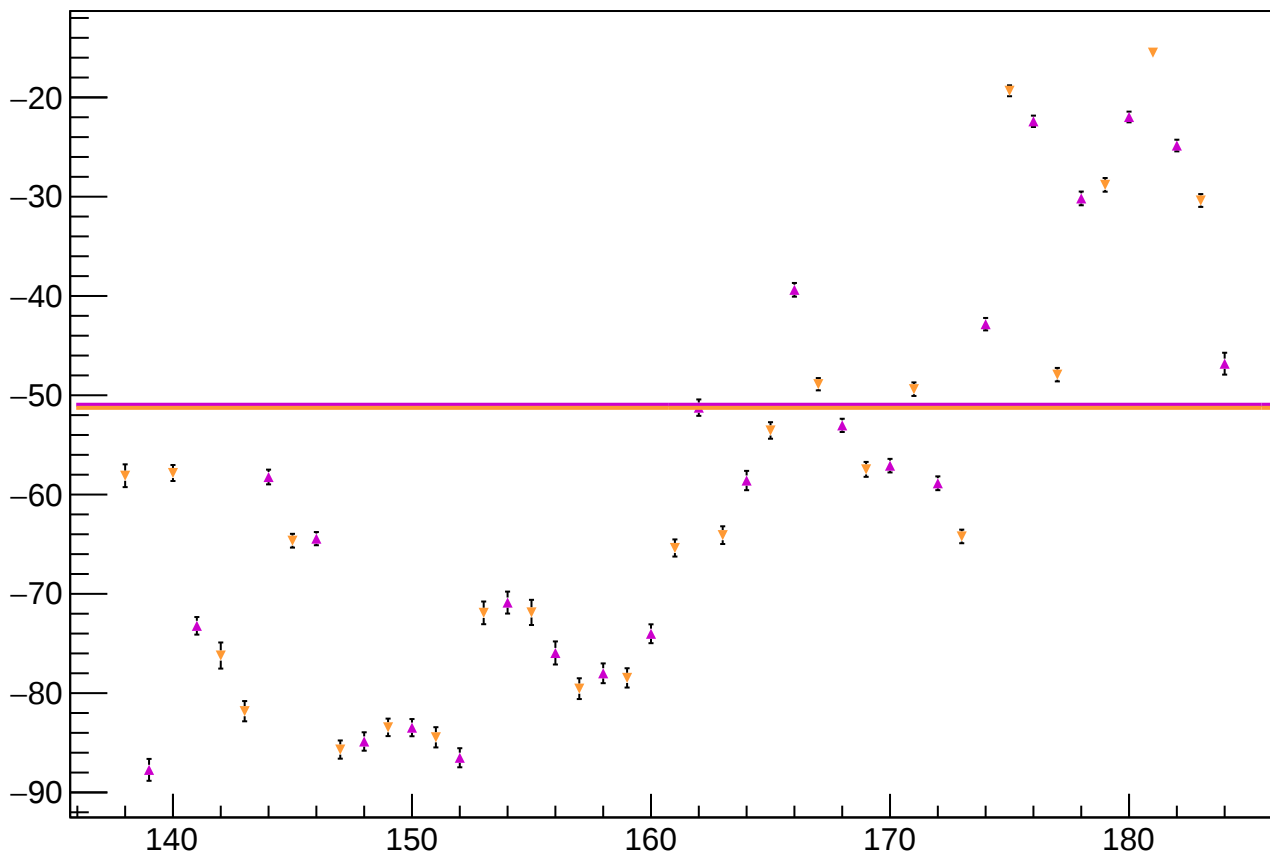
Left In: 3.224+/-0.127  $\chi^2/\text{NDF}$ : 6274.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.229+/-0.089  $\chi^2/\text{NDF}$ : 14284.9/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -51.265+/-0.159  $\chi^2/\text{NDF}$ :19130.7/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

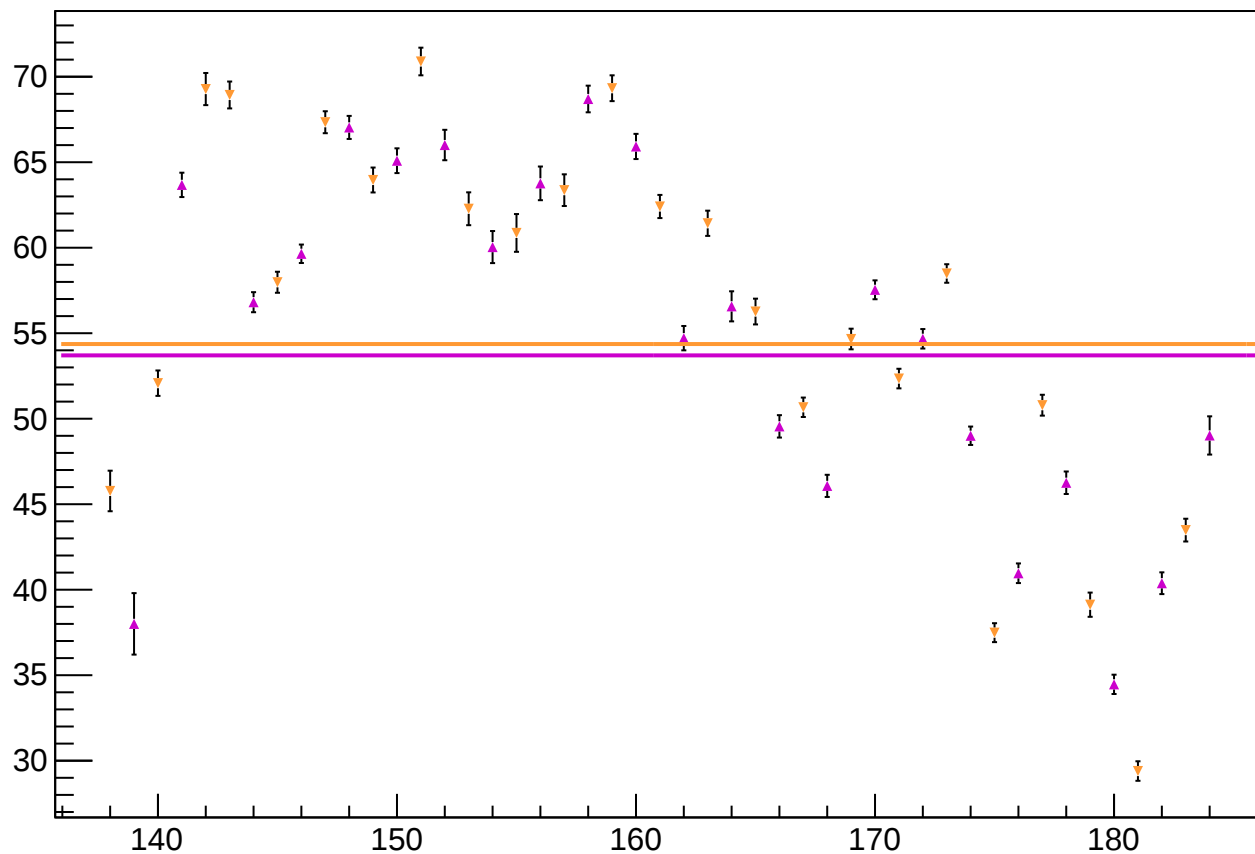
Left In: -50.954+/-0.159  $\chi^2/\text{NDF}$ :17472.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -51.110+/-0.113  $\chi^2/\text{NDF}$ : 36604.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 54.367+/-0.142  $\chi^2/\text{NDF}$ : 6240.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

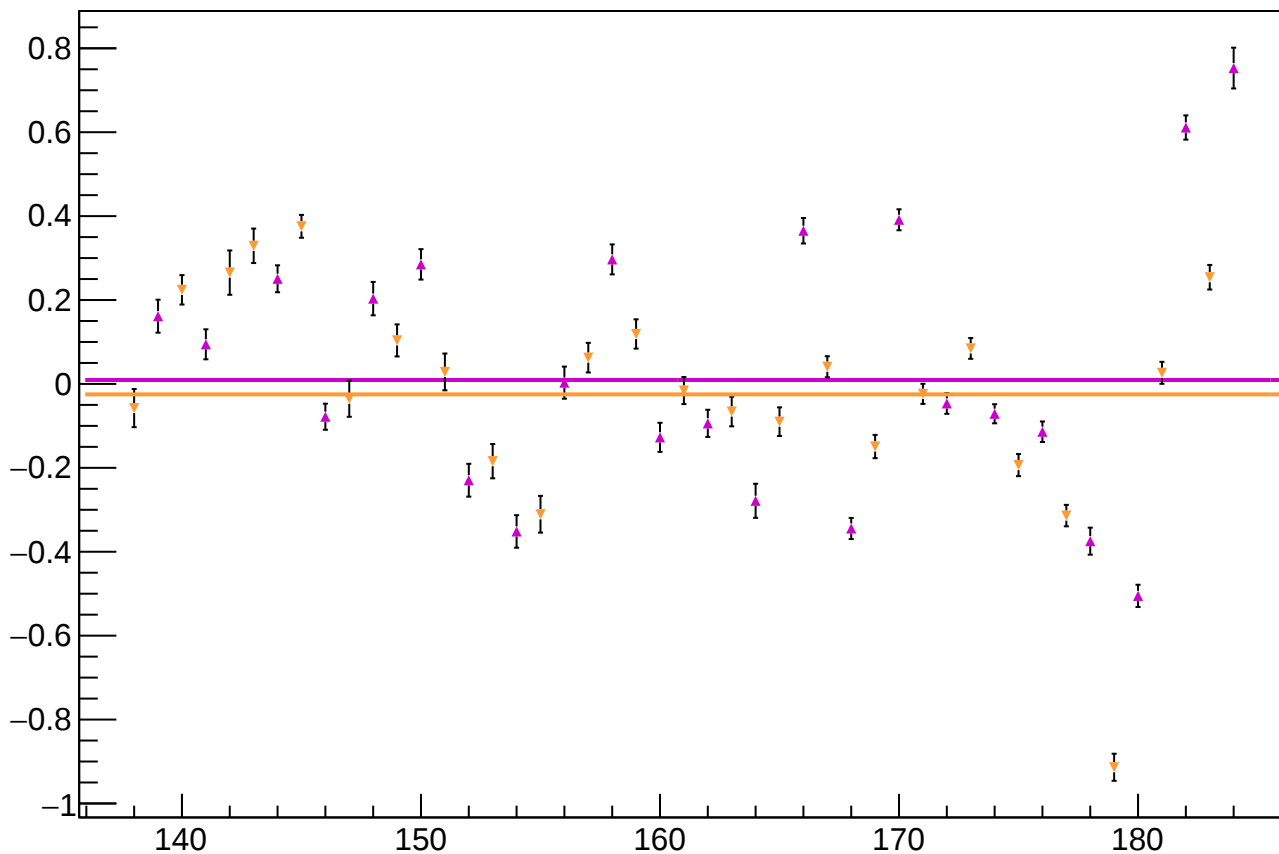
Left In: 53.704+/-0.143  $\chi^2/\text{NDF}$ : 4603.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.038+/-0.100  $\chi^2/\text{NDF}$ : 10854.7/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.025 $\pm$ 0.007  $\chi^2$ /NDF:1539.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

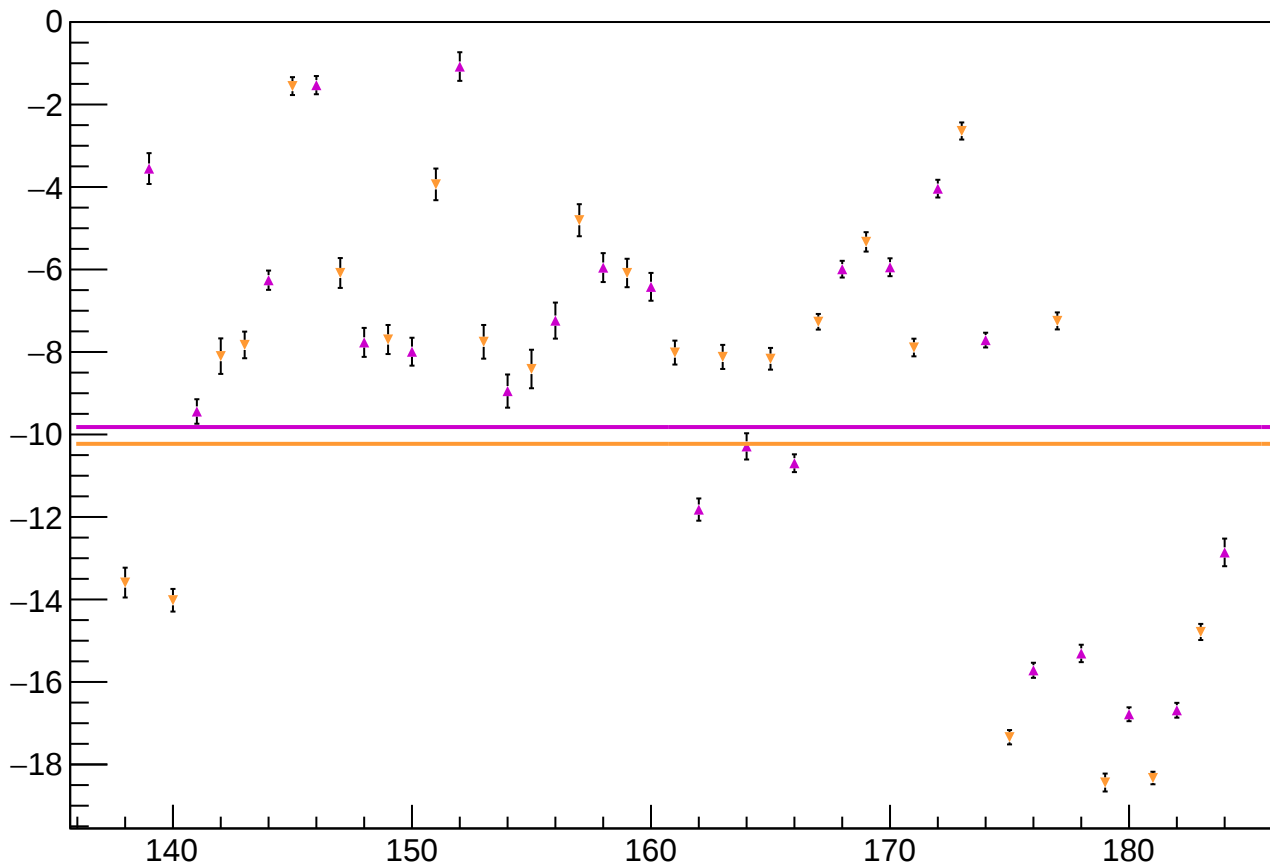
Left In: 0.009 $\pm$ 0.007  $\chi^2$ /NDF:2228.9/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.008 $\pm$ 0.005  $\chi^2$ /NDF: 3781.7/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -10.227 $\pm$ 0.051  $\chi^2$ /NDF: 11800.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

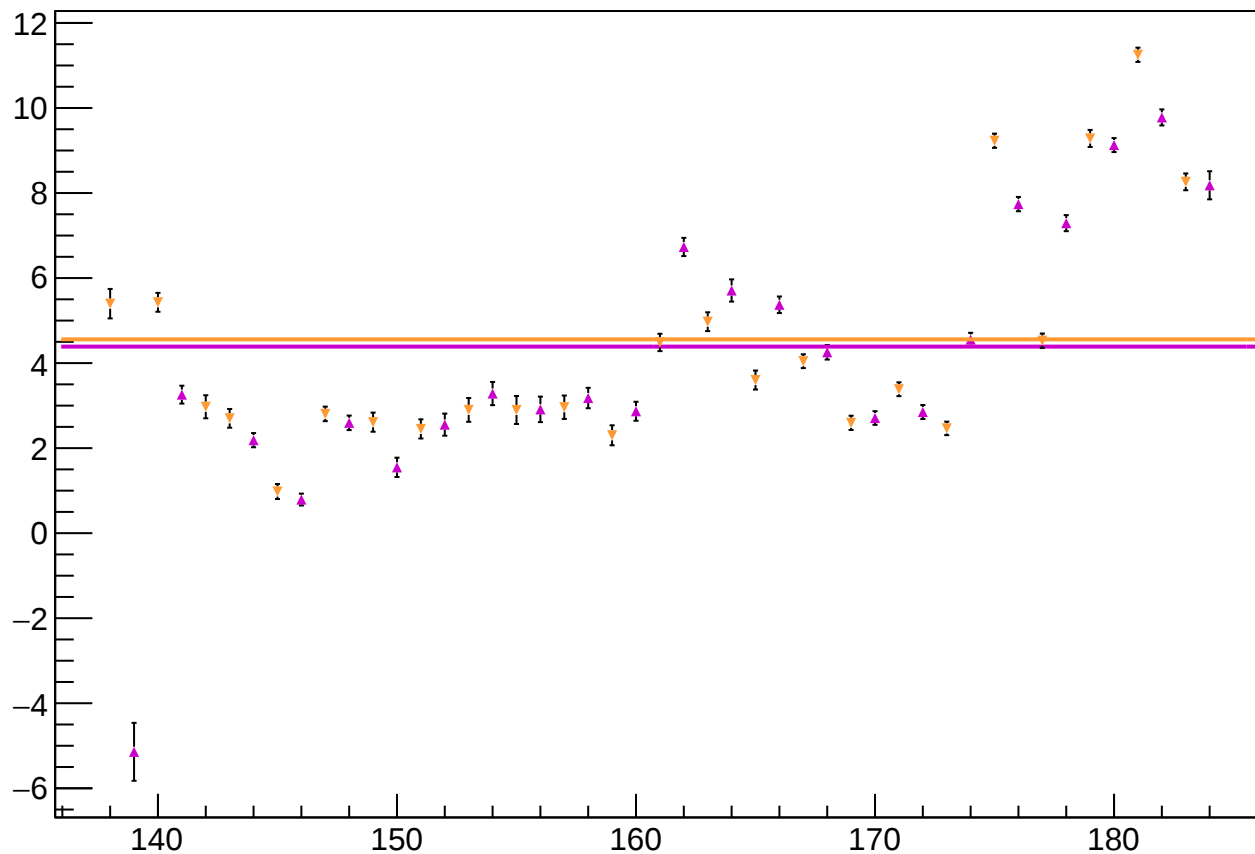
Left In: -9.820 $\pm$ 0.051  $\chi^2$ /NDF: 9468.8/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.023 $\pm$ 0.036  $\chi^2$ /NDF: 21300.4/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4.559 $\pm$ 0.041  $\chi^2$ /NDF:4673.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

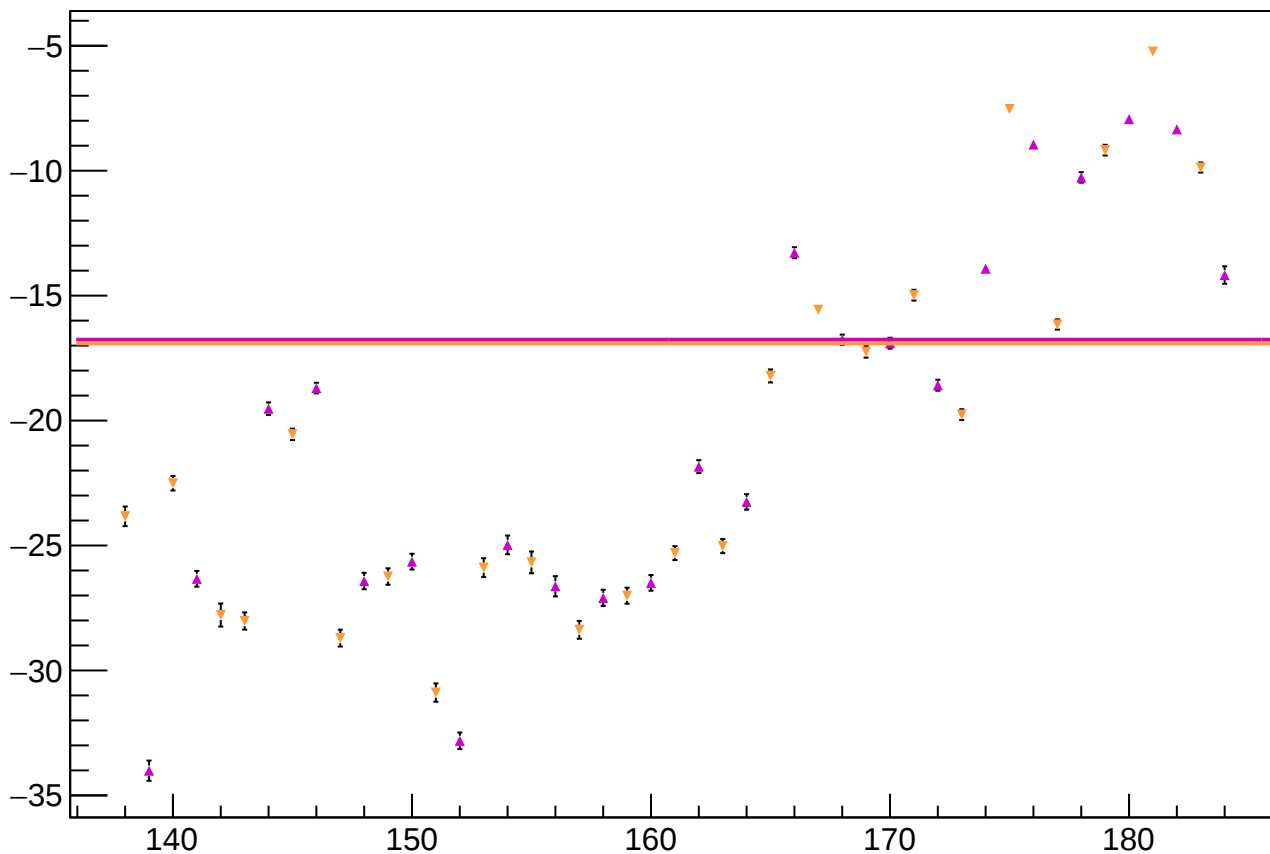
Left In: 4.388 $\pm$ 0.041  $\chi^2$ /NDF:4266.4/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.474 $\pm$ 0.029  $\chi^2$ /NDF: 8948.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -16.909+/-0.052  $\chi^2/\text{NDF}$ : 21934.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

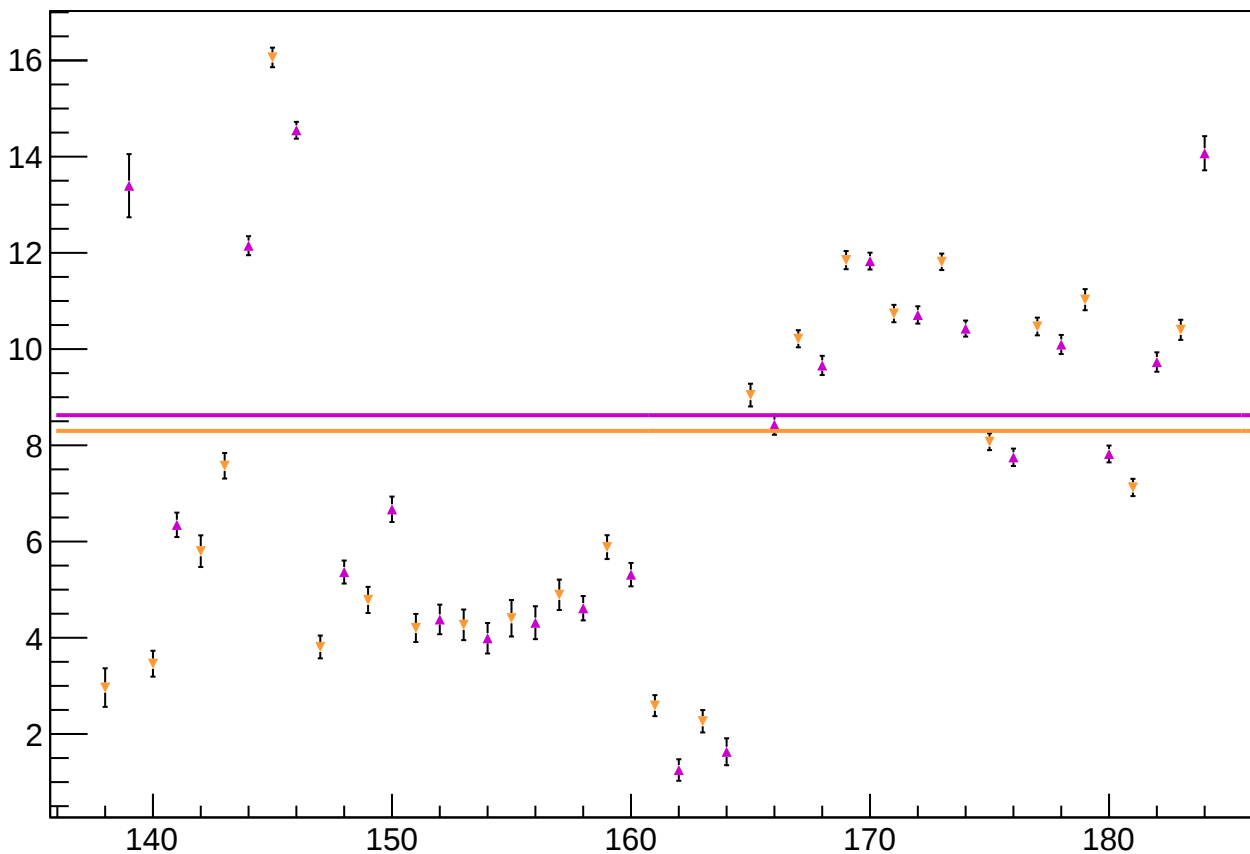
Left In: -16.764+/-0.051  $\chi^2/\text{NDF}$ : 19037.7/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.836+/-0.036  $\chi^2/\text{NDF}$ : 40976.0/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

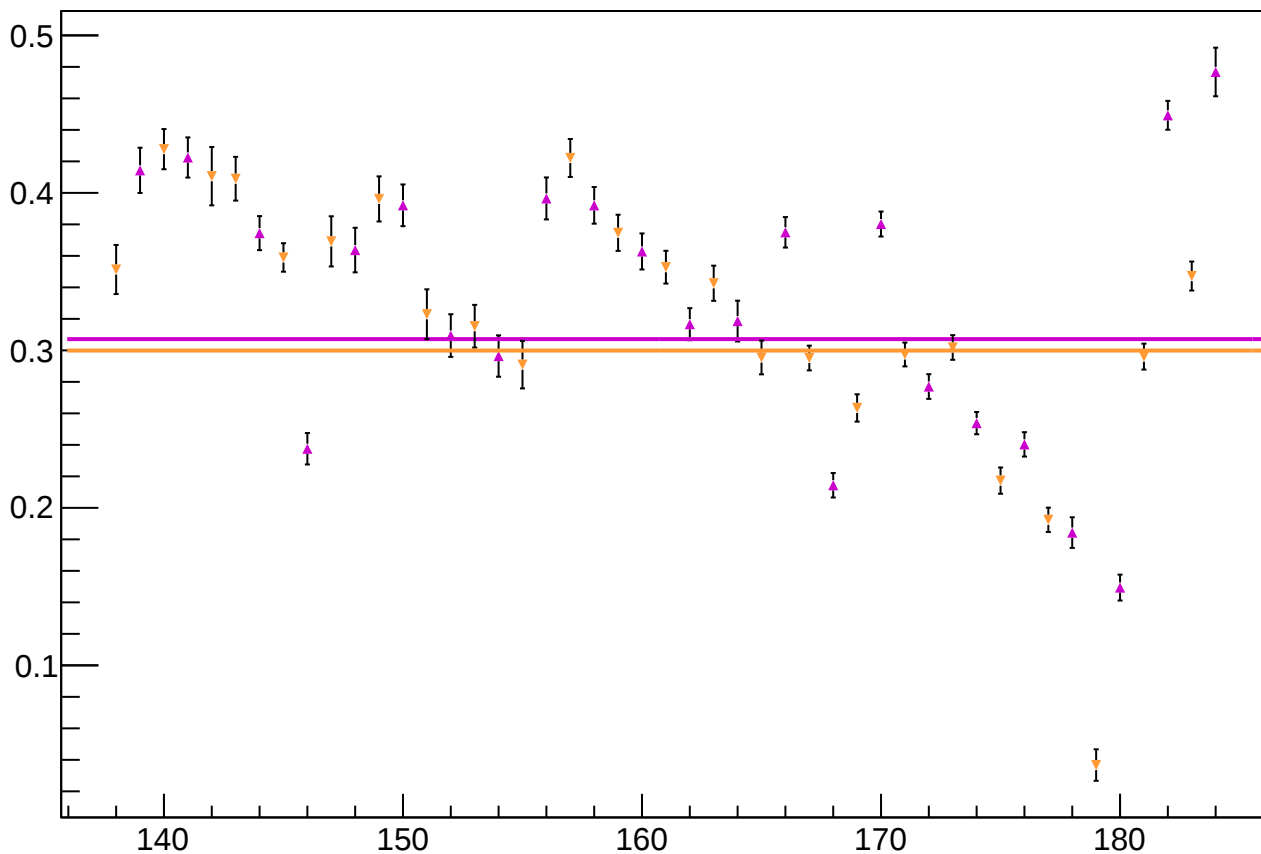
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.300+/-0.046  $\chi^2/\text{NDF}$ :6107.2/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.626+/-0.046  $\chi^2/\text{NDF}$ :5531.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 8.463+/-0.033  $\chi^2/\text{NDF}$ : 11664.1/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

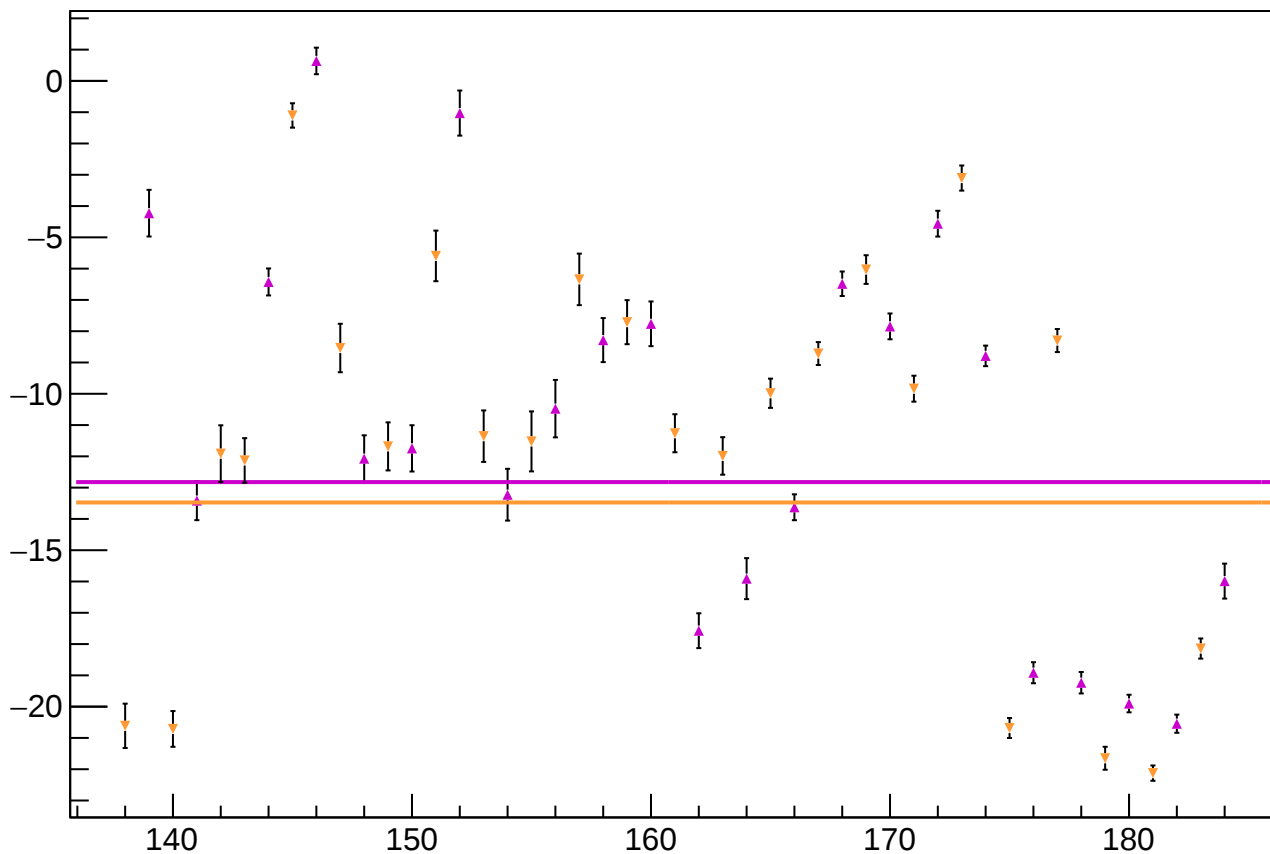
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.300 $\pm$ 0.002  $\chi^2/\text{NDF}$ :1534.5/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.307 $\pm$ 0.002  $\chi^2/\text{NDF}$ :1716.8/22

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.304 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 3257.2/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.474 $\pm$ 0.095  $\chi^2$ /NDF: 5482.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

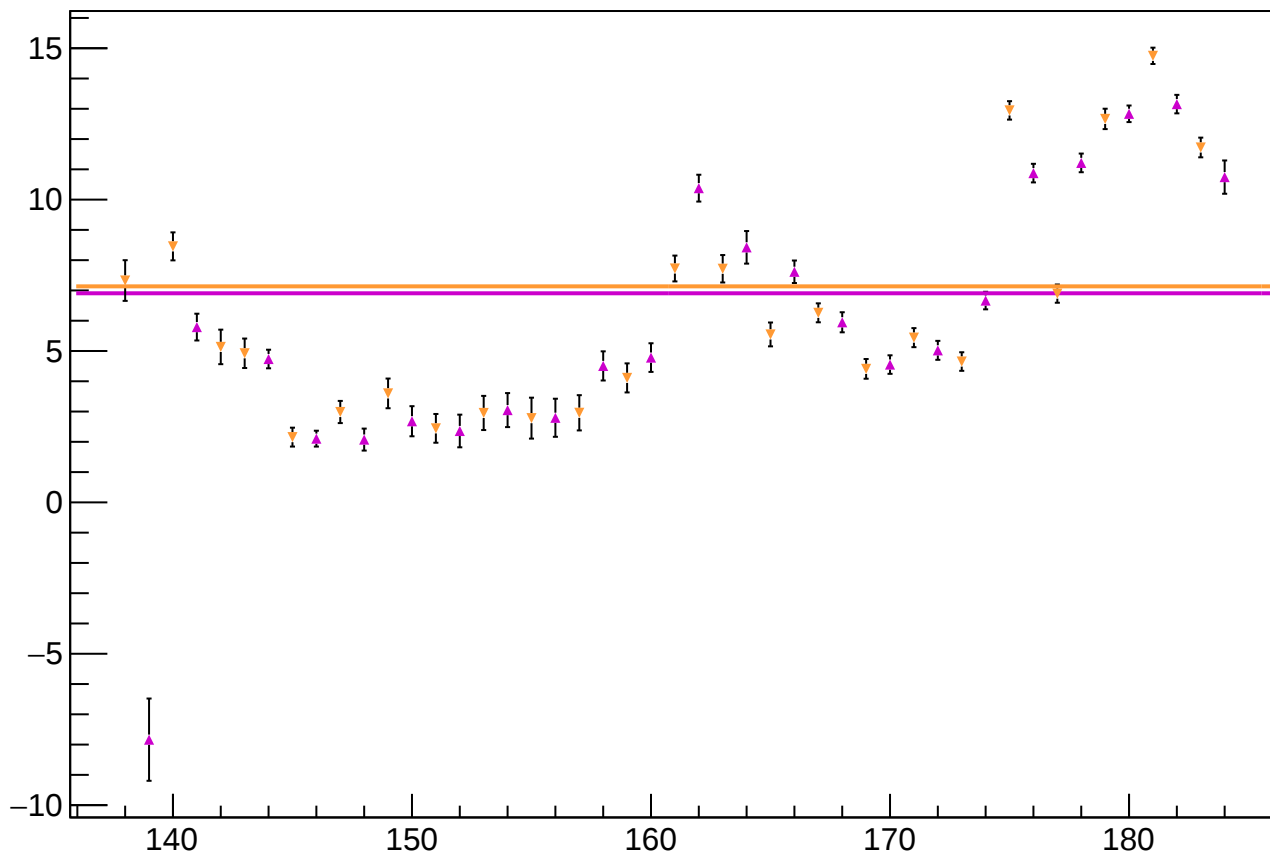
Left In: -12.823 $\pm$ 0.095  $\chi^2$ /NDF: 4841.5/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.148 $\pm$ 0.067  $\chi^2$ /NDF: 10347.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

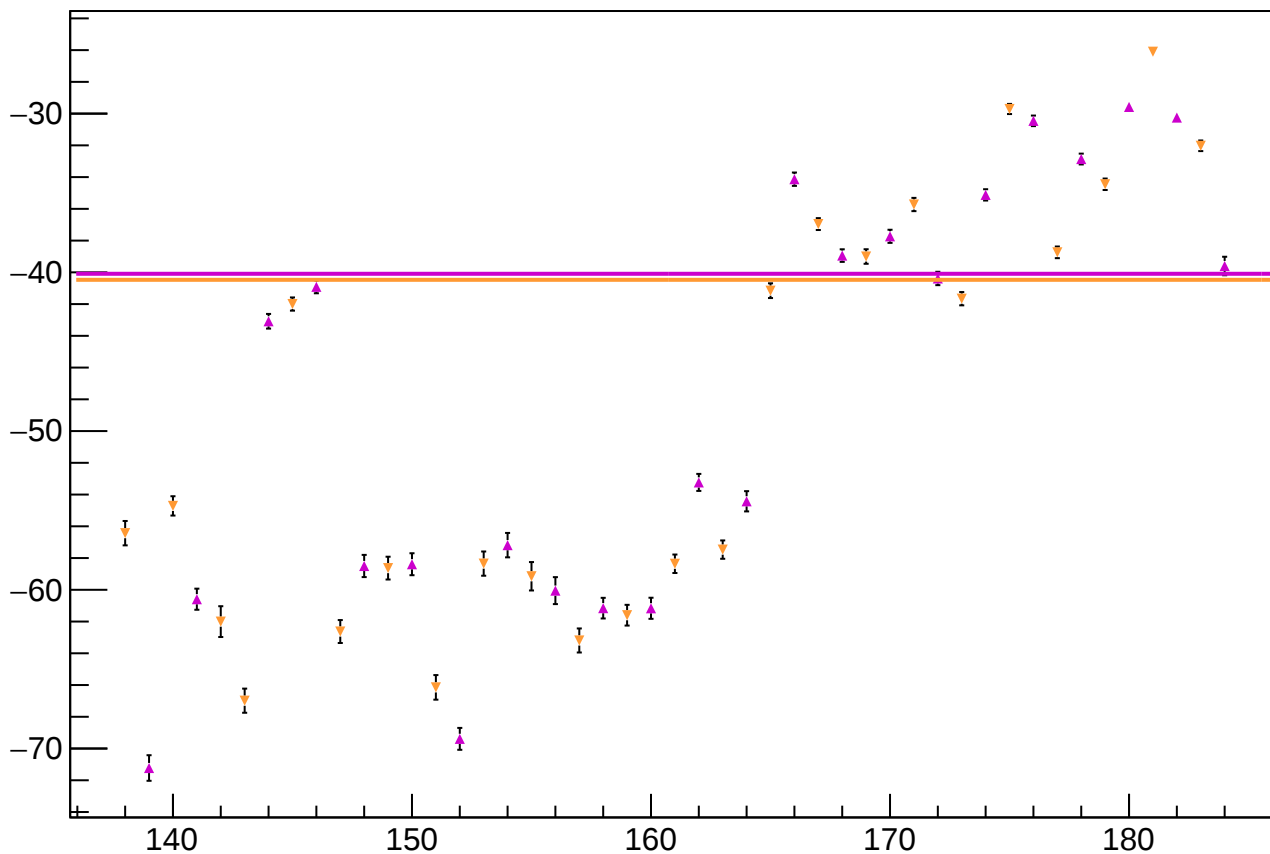
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 7.135 $\pm$ 0.078  $\chi^2$ /NDF:2584.9/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 6.906 $\pm$ 0.077  $\chi^2$ /NDF:2442.8/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 7.020 $\pm$ 0.055  $\chi^2$ /NDF: 5032.1/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -40.471 $\pm$ 0.096  $\chi^2$ /NDF:15611.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

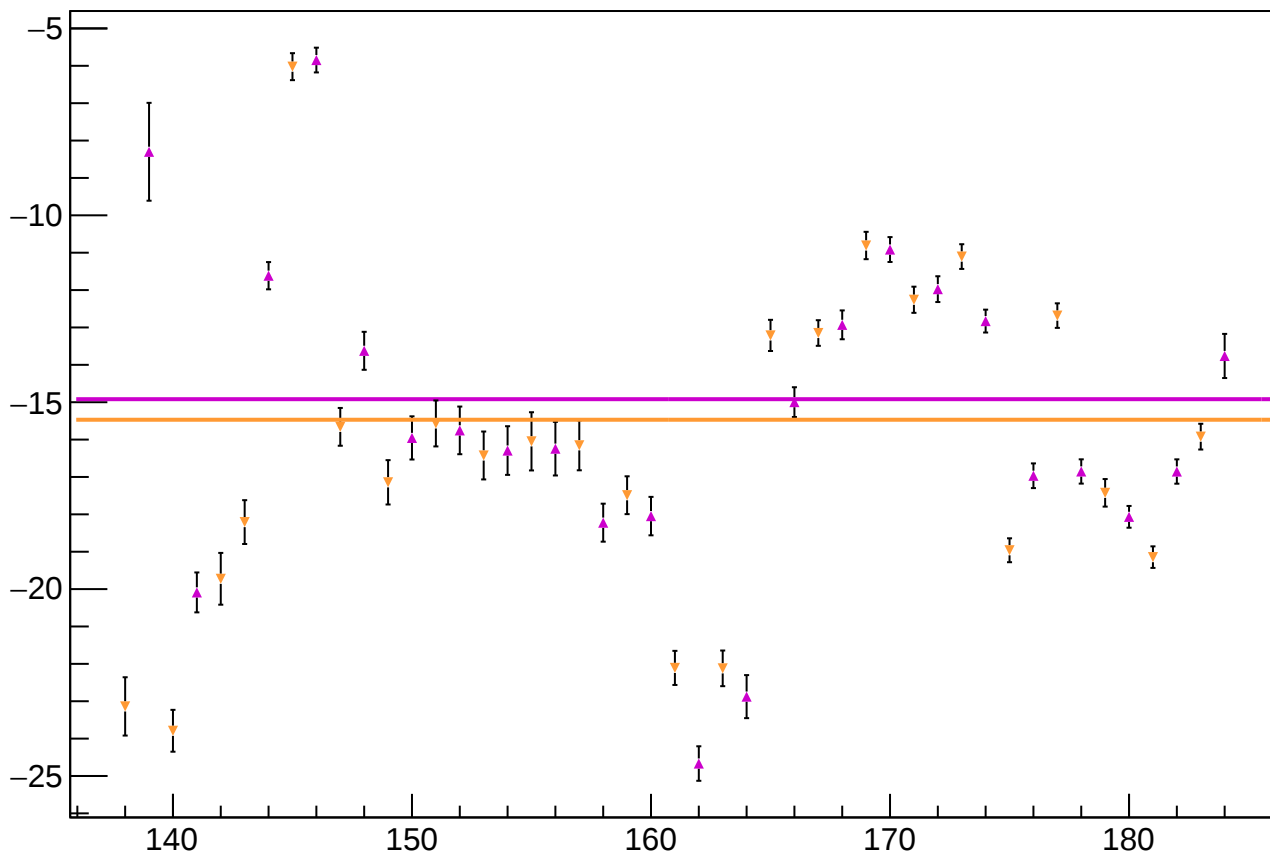
Left In: -40.091 $\pm$ 0.095  $\chi^2$ /NDF:14103.5/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.279 $\pm$ 0.068  $\chi^2$ /NDF: 29722.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -15.469 $\pm$ 0.087  $\chi^2$ /NDF:2375.9/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

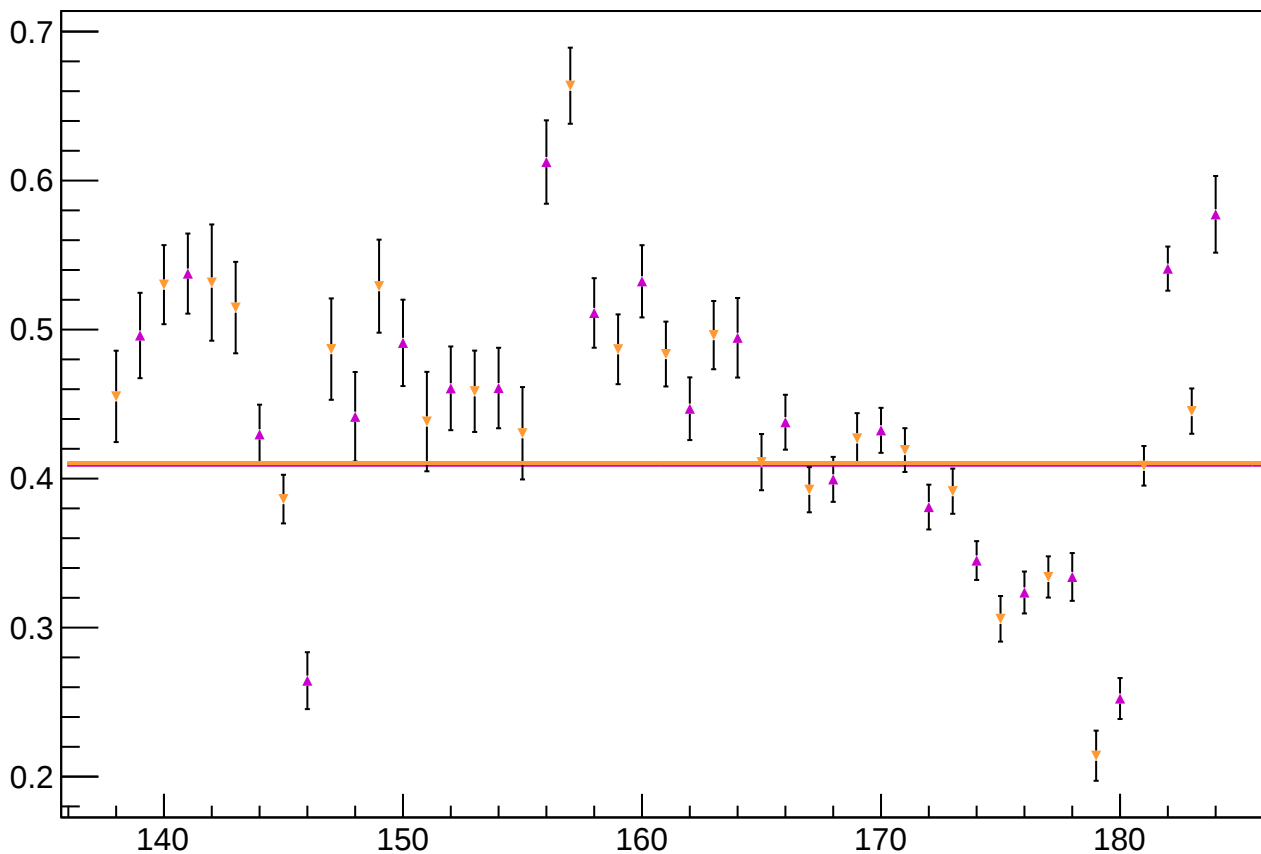
Left In: -14.919 $\pm$ 0.087  $\chi^2$ /NDF:2207.7/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.193 $\pm$ 0.061  $\chi^2$ /NDF: 4603.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

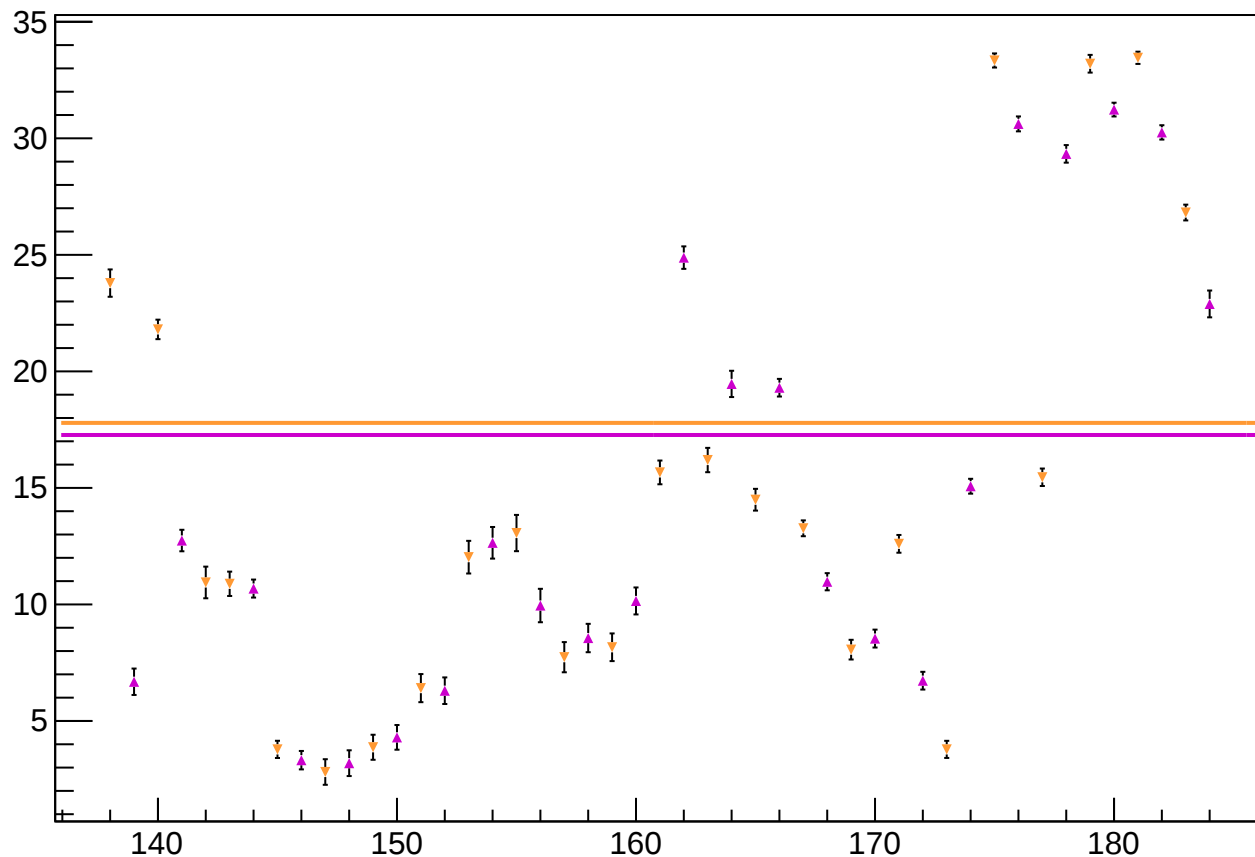
# reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.410 $\pm$ 0.004  $\chi^2$ /NDF:426.9/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.409 $\pm$ 0.004  $\chi^2$ /NDF:561.9/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.410 $\pm$ 0.003  $\chi^2$ /NDF: 988.8/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 17.790+/-0.088  $\chi^2/\text{NDF}$ :15292.9/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

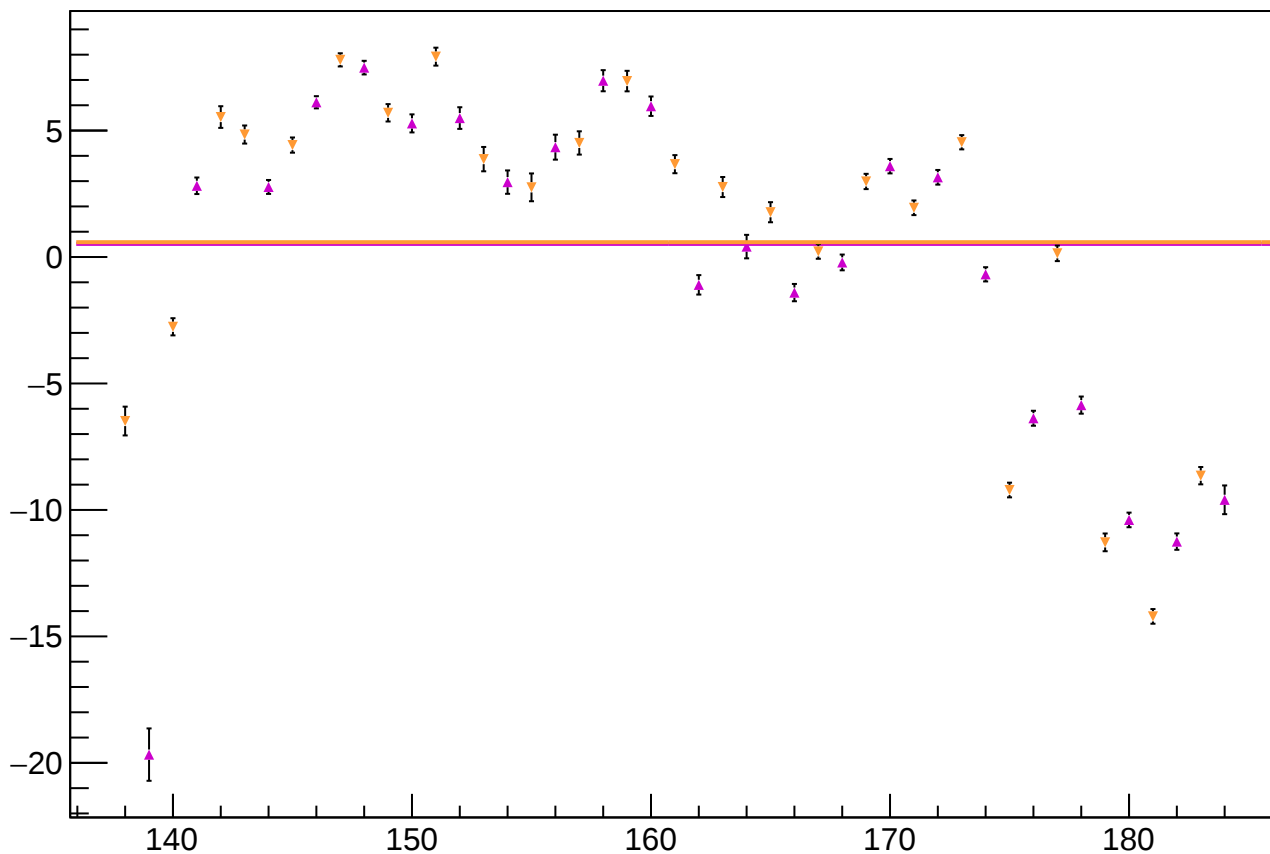
Left In: 17.271+/-0.088  $\chi^2/\text{NDF}$ :12892.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.532+/-0.062  $\chi^2/\text{NDF}$ : 28202.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

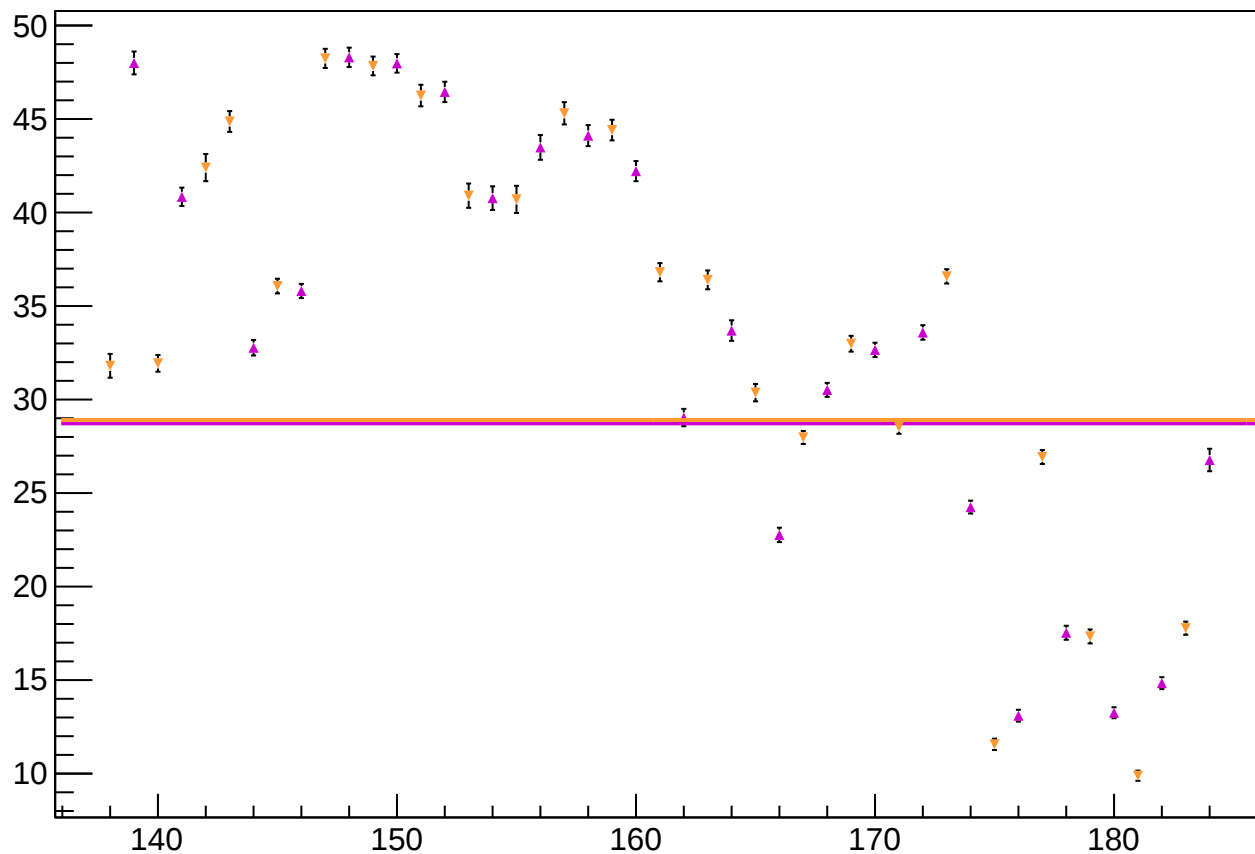
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.586+/-0.070  $\chi^2/\text{NDF}$ :8492.8/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.519+/-0.071  $\chi^2/\text{NDF}$ :6776.8/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.553+/-0.050  $\chi^2/\text{NDF}$ : 15270.0/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 28.907 $\pm$ 0.089  $\chi^2$ /NDF:18556.6/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

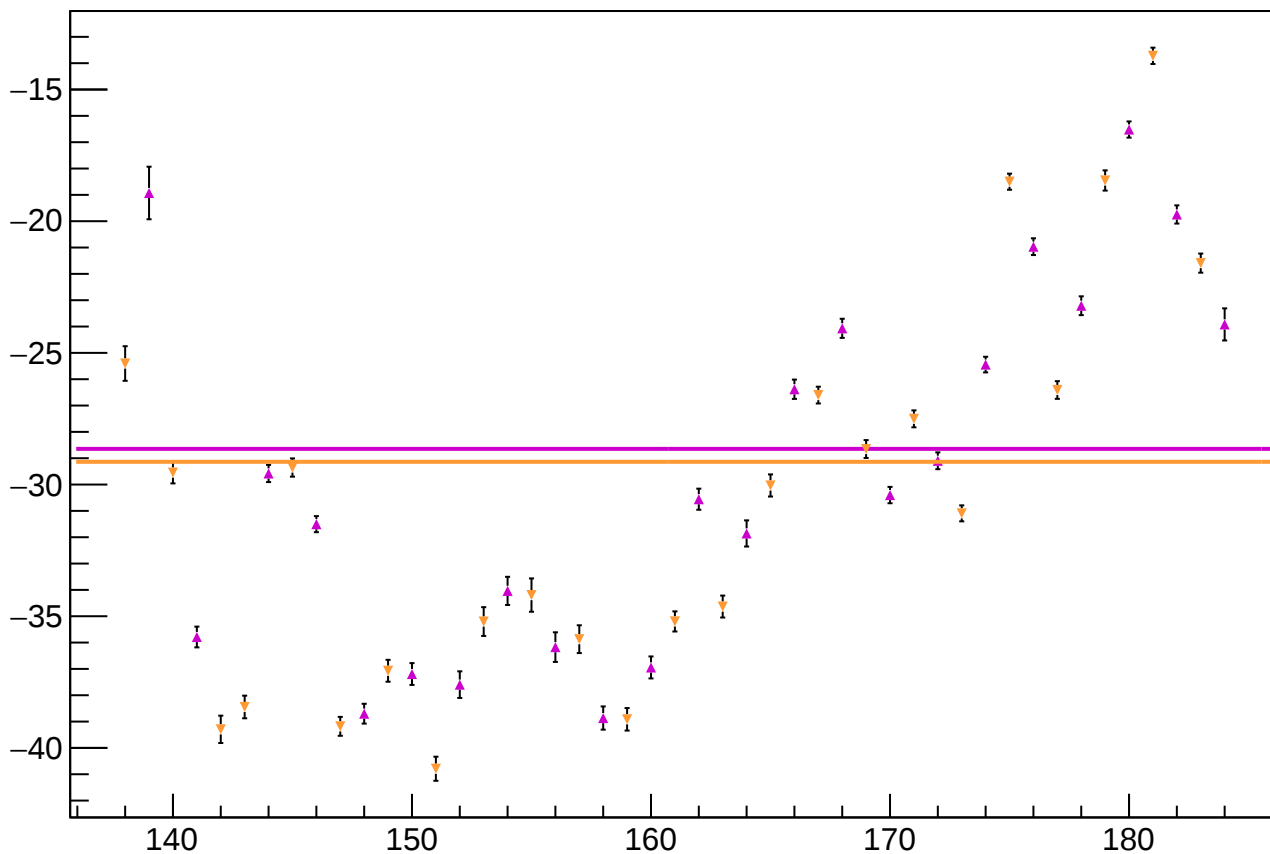
Left In: 28.728 $\pm$ 0.089  $\chi^2$ /NDF:17037.4/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.818 $\pm$ 0.063  $\chi^2$ /NDF: 35596.0/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.136+/-0.079  $\chi^2/\text{NDF}$ : 9071.6/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

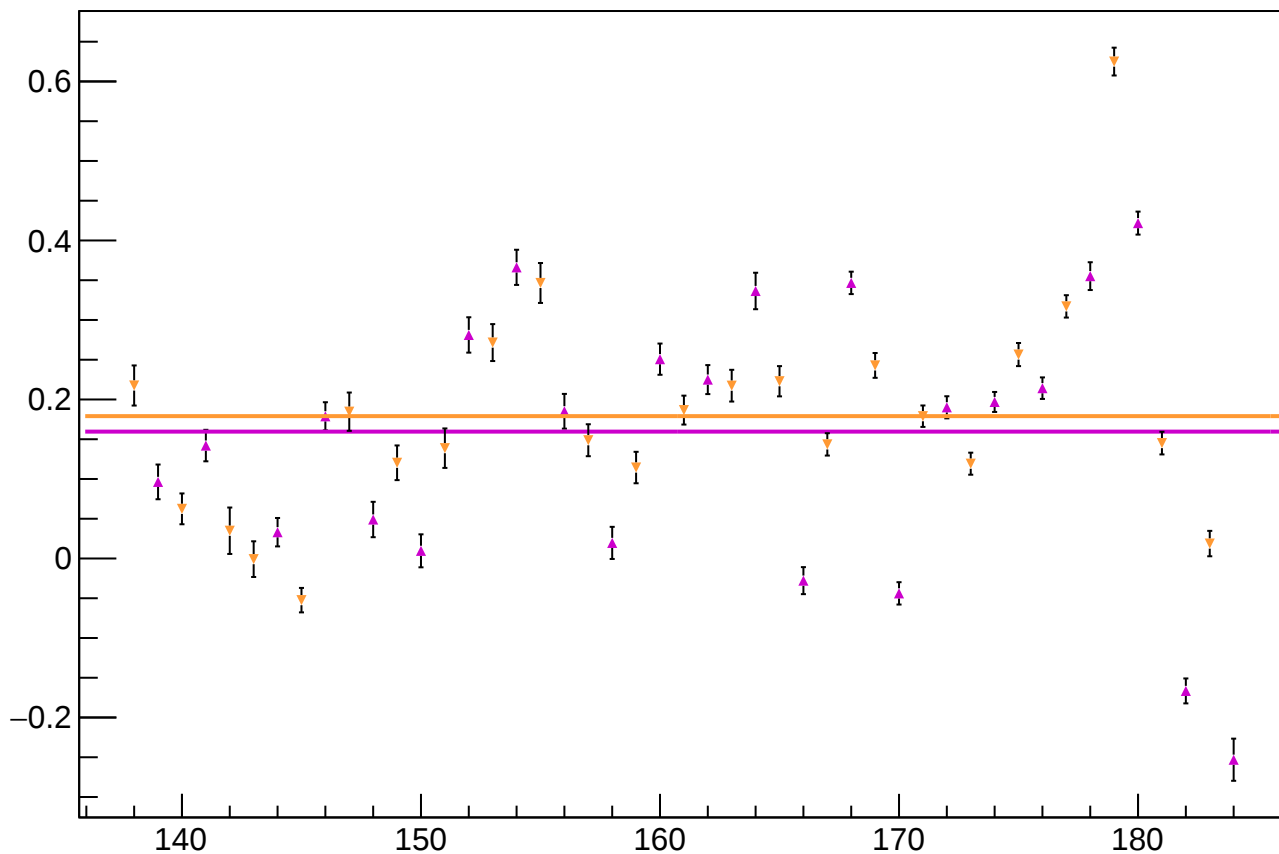
Left In: -28.645+/-0.080  $\chi^2/\text{NDF}$ : 6693.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -28.892+/-0.056  $\chi^2/\text{NDF}$ : 15784.3/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.179 \pm 0.004$   $\chi^2/\text{NDF}$ : 1368.4/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

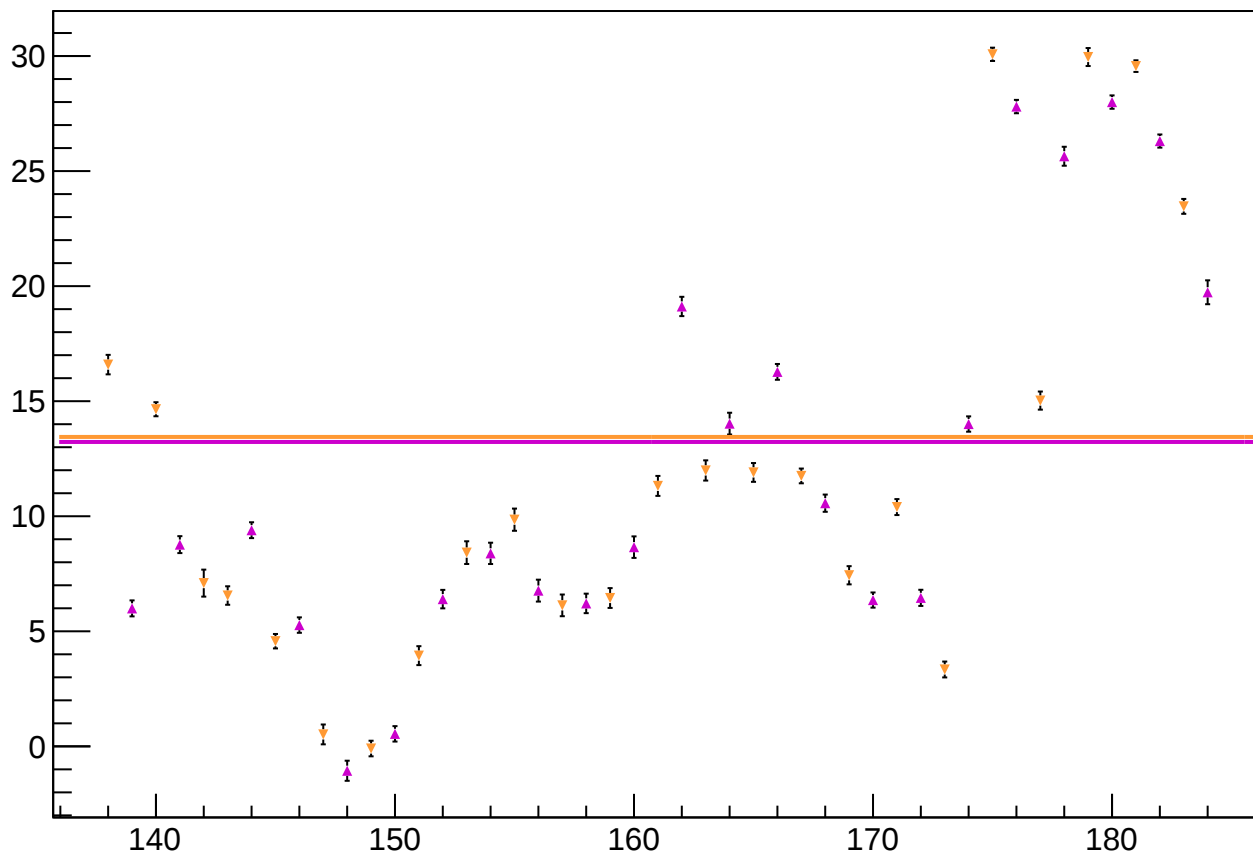
Left In:  $0.160 \pm 0.004$   $\chi^2/\text{NDF}$ : 2063.7/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.169 \pm 0.003$   $\chi^2/\text{NDF}$ : 3446.4/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 13.447 $\pm$ 0.076  $\chi^2$ /NDF:16339.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

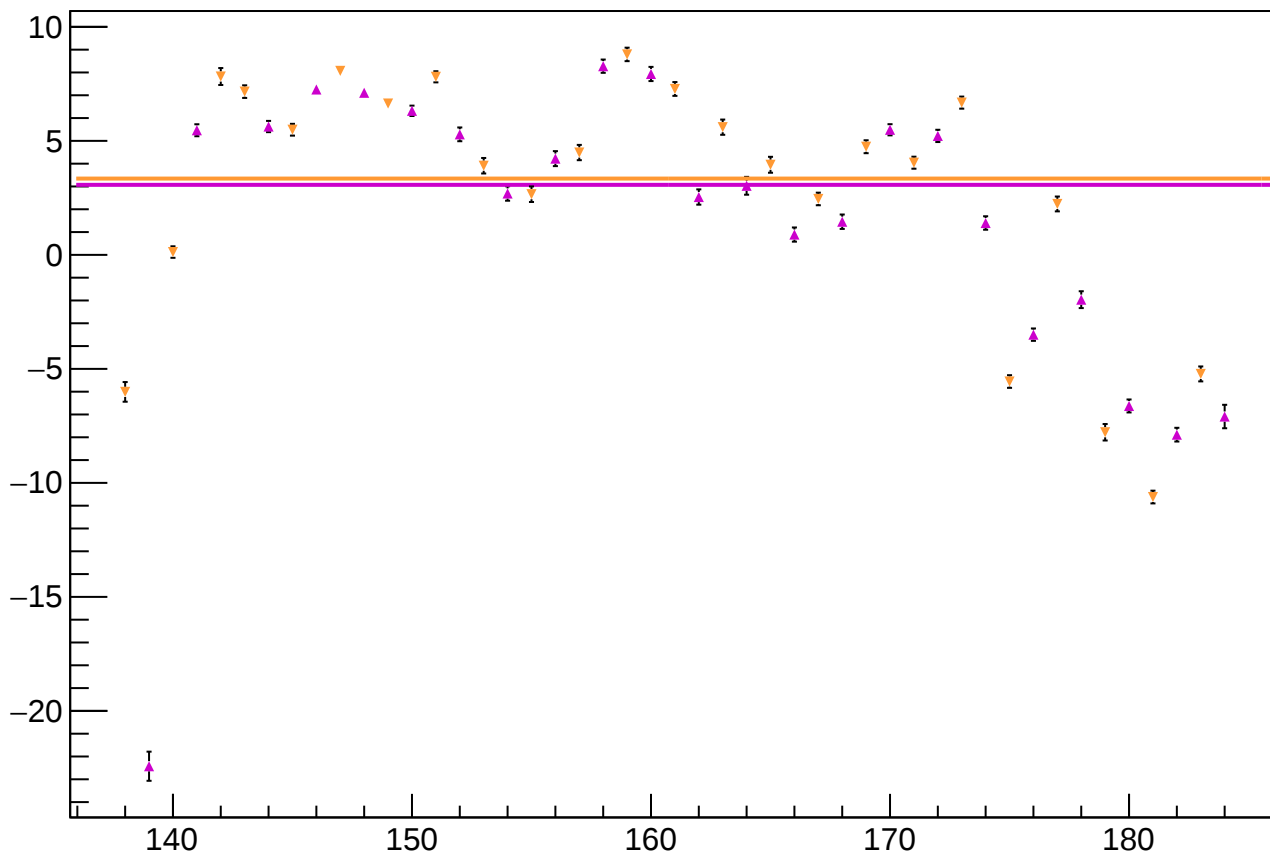
Left In: 13.228 $\pm$ 0.077  $\chi^2$ /NDF:14126.1/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.338 $\pm$ 0.054  $\chi^2$ /NDF: 30469.5/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.346+/-0.059  $\chi^2/\text{NDF}$ : 8058.1/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

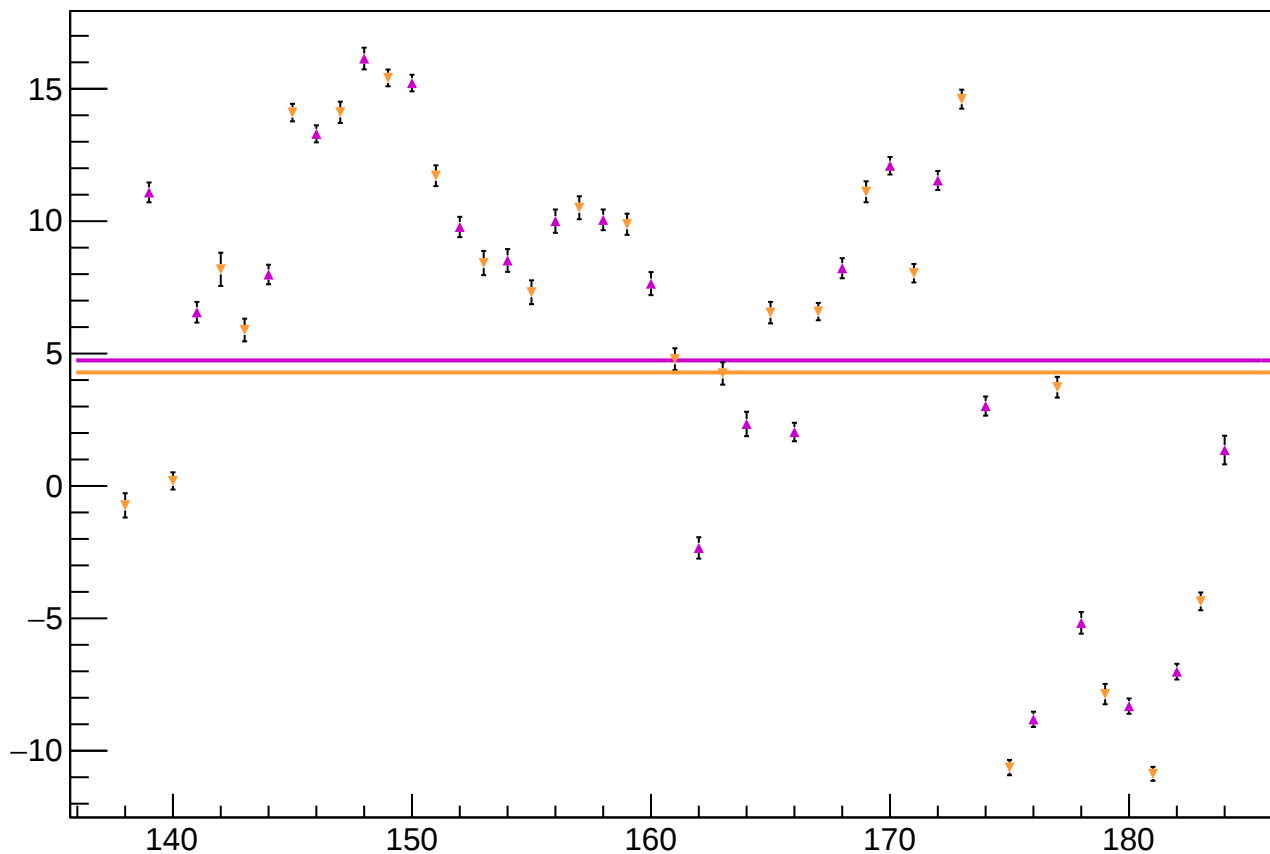
Left In: 3.071+/-0.060  $\chi^2/\text{NDF}$ : 7269.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.213+/-0.042  $\chi^2/\text{NDF}$ : 15337.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4.287 $\pm$ 0.076  $\chi^2$ /NDF:12884.8/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

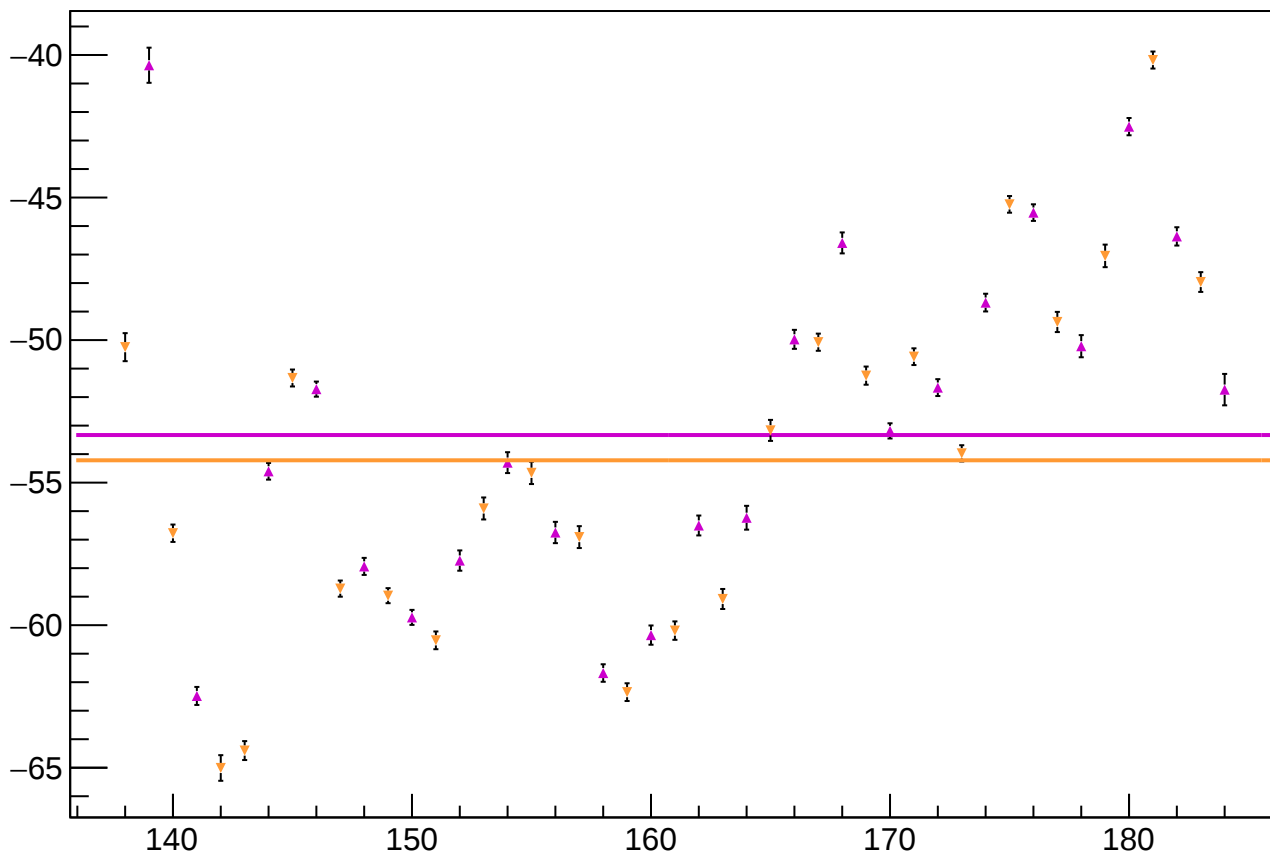
Left In: 4.741 $\pm$ 0.076  $\chi^2$ /NDF:11418.2/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.513 $\pm$ 0.054  $\chi^2$ /NDF: 24320.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -54.217+/-0.067  $\chi^2/\text{NDF}$ : 8453.2/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

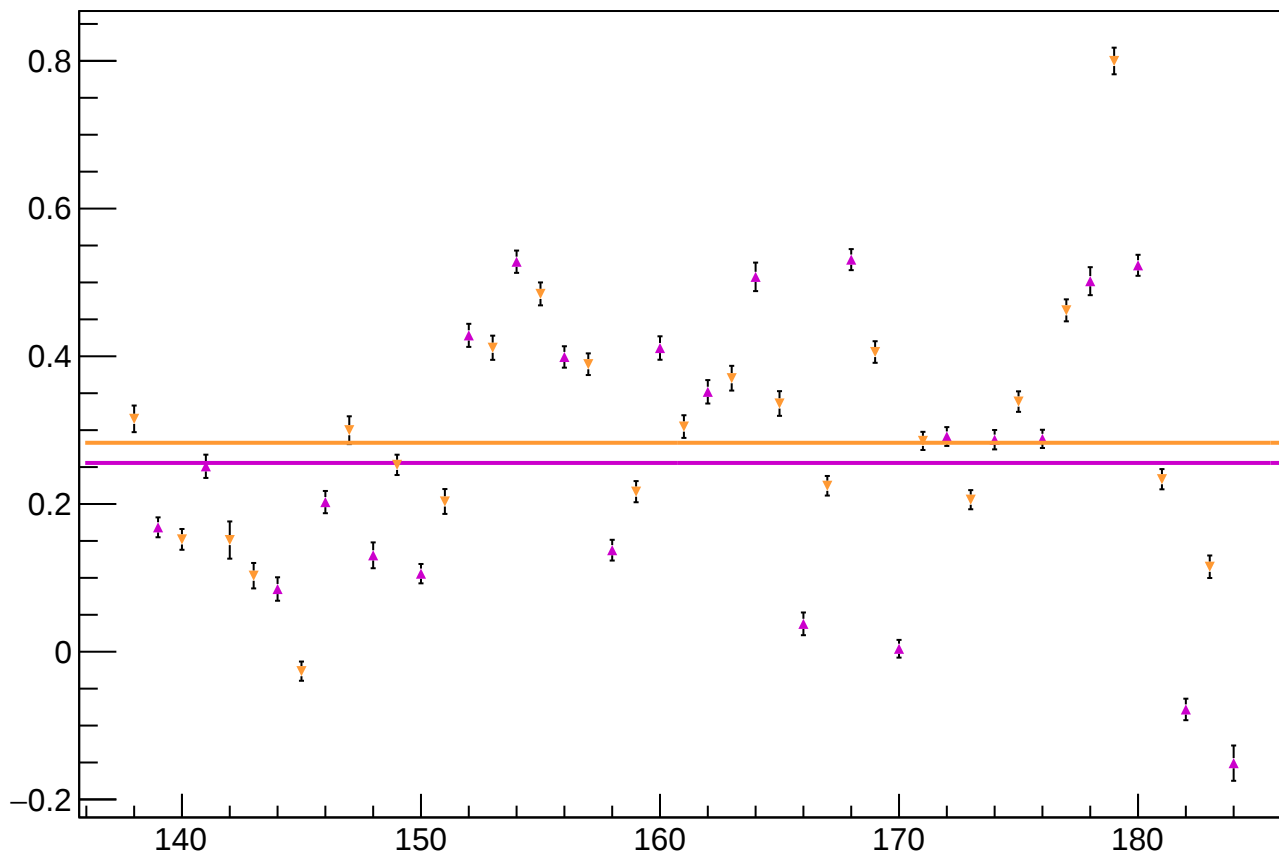
Left In: -53.330+/-0.068  $\chi^2/\text{NDF}$ : 6940.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -53.782+/-0.048  $\chi^2/\text{NDF}$ : 15479.3/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.283 $\pm$ 0.003  $\chi^2$ /NDF:2405.8/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

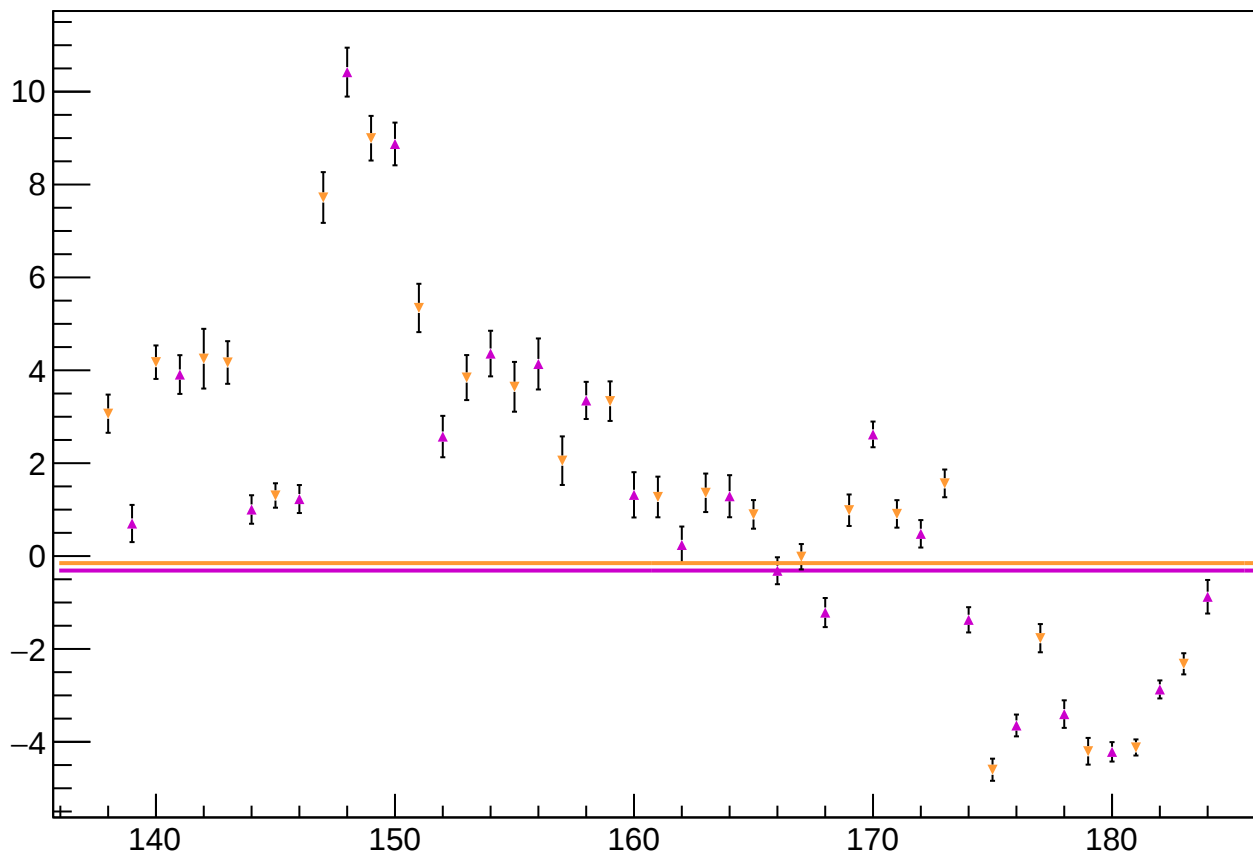
Left In: 0.256 $\pm$ 0.003  $\chi^2$ /NDF:3644.0/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.269 $\pm$ 0.002  $\chi^2$ /NDF: 6088.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

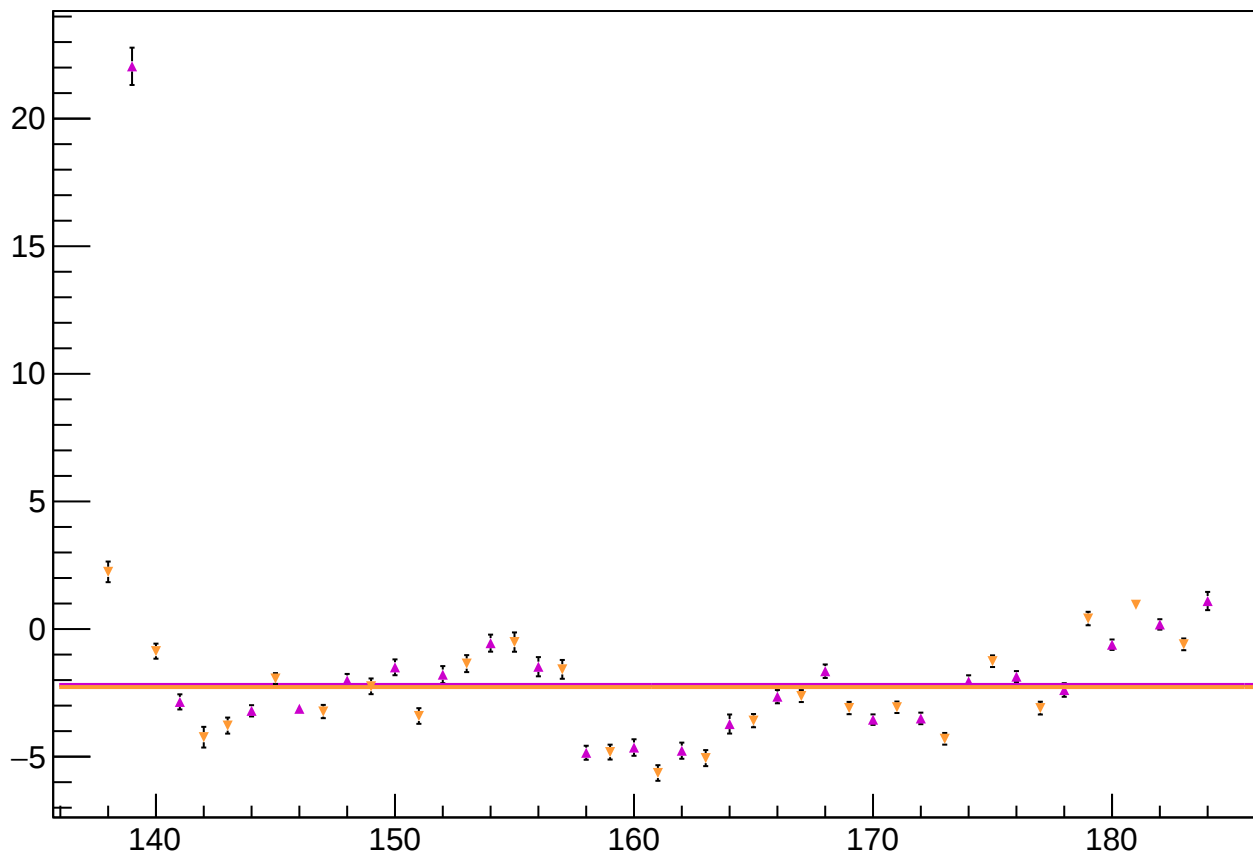
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.152+/-0.067  $\chi^2/\text{NDF}$ : 2538.5/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.312+/-0.067  $\chi^2/\text{NDF}$ : 2252.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -0.232+/-0.047  $\chi^2/\text{NDF}$ : 4794.0/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

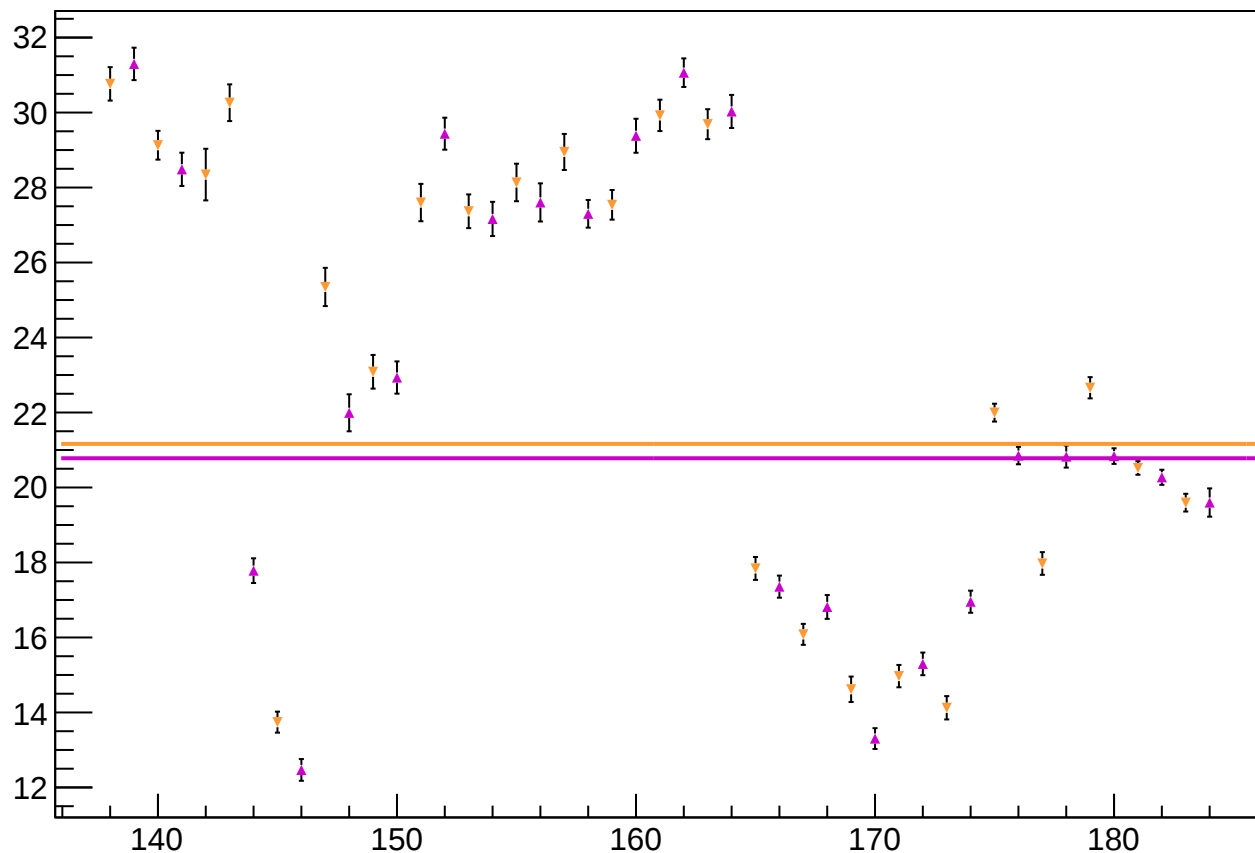
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.274 $\pm$ 0.055  $\chi^2$ /NDF:1134.9/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.190 $\pm$ 0.055  $\chi^2$ /NDF:1785.1/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -2.232 $\pm$ 0.039  $\chi^2$ /NDF: 2921.2/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 21.162+/-0.068  $\chi^2/\text{NDF}$ : 6075.5/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

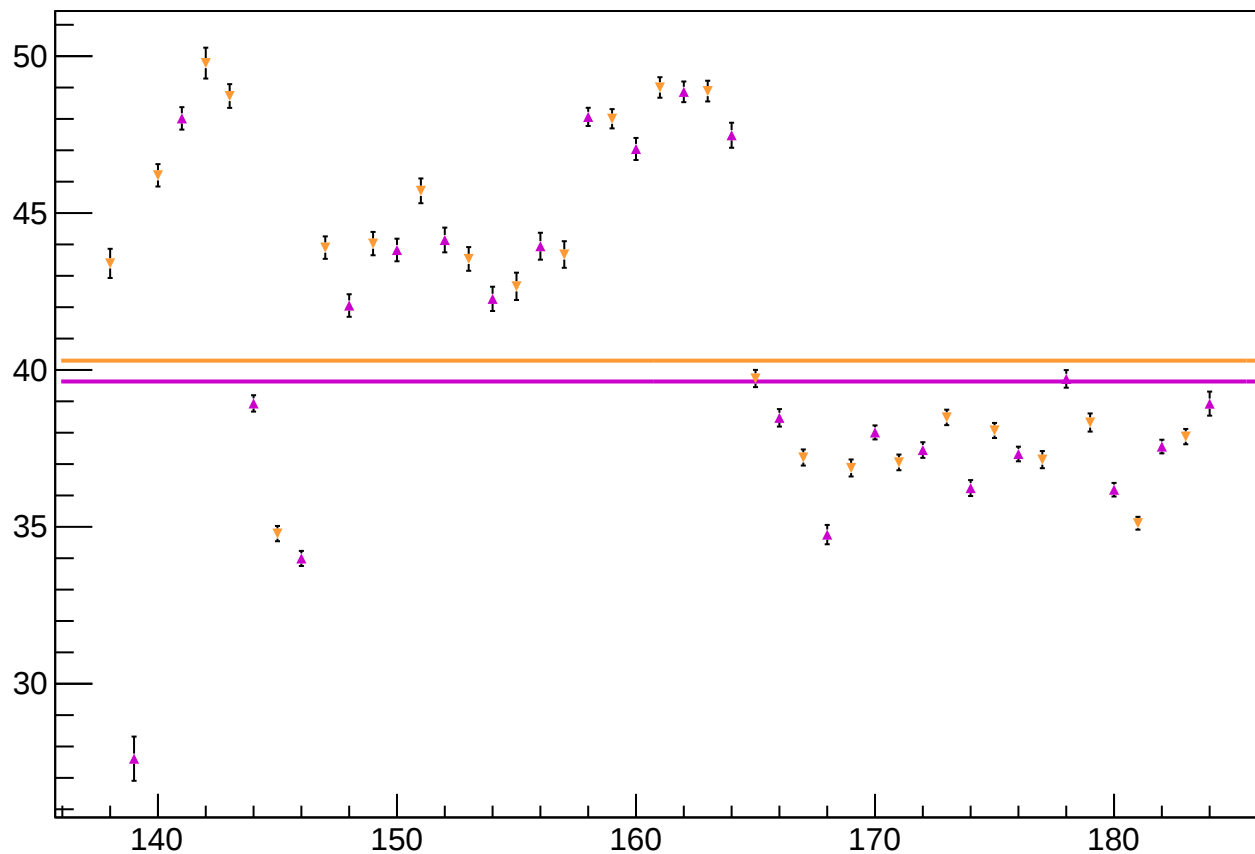
Left In: 20.780+/-0.067  $\chi^2/\text{NDF}$ : 5988.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.970+/-0.048  $\chi^2/\text{NDF}$ : 12079.6/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

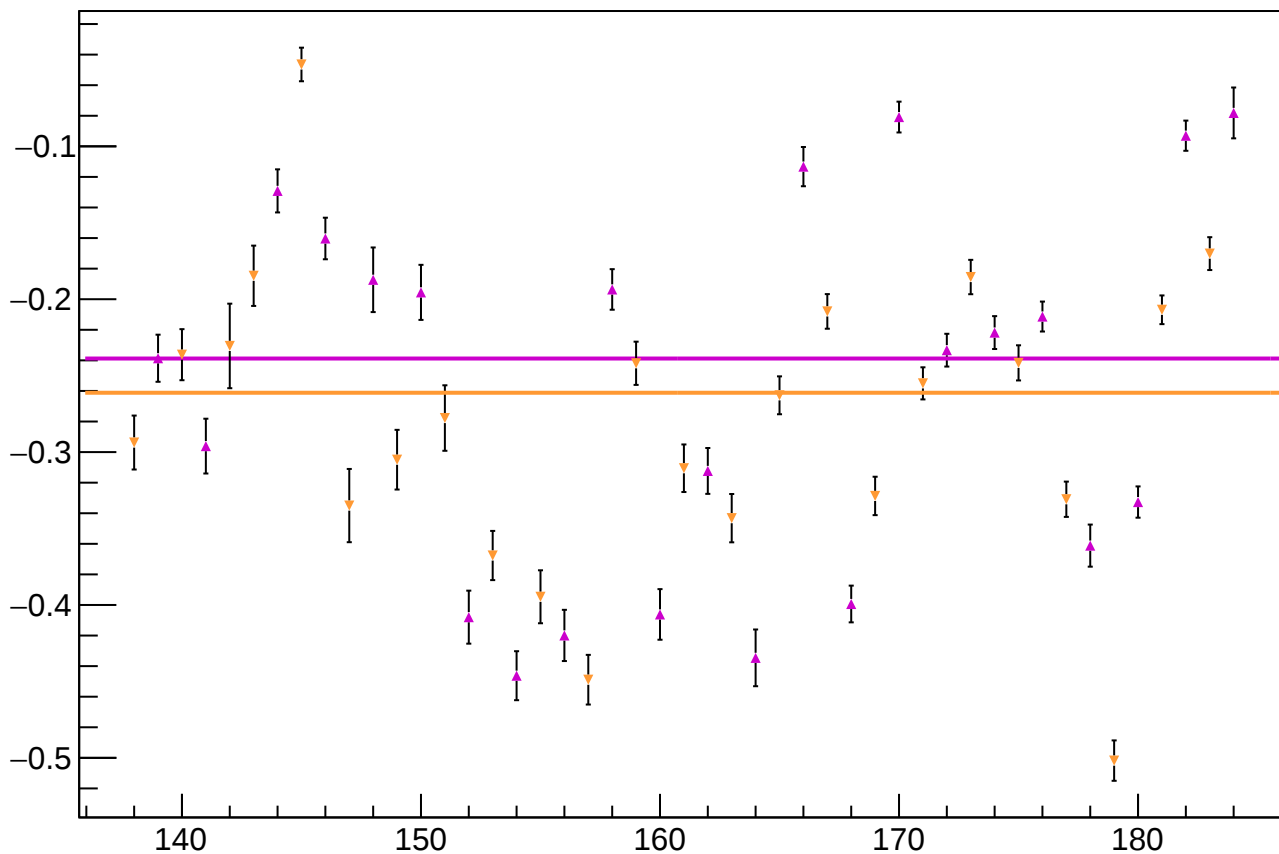
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 40.297+/-0.061  $\chi^2/\text{NDF}$ : 5809.5/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 39.632+/-0.061  $\chi^2/\text{NDF}$ : 5343.3/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 39.965+/-0.043  $\chi^2/\text{NDF}$ : 11211.6/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

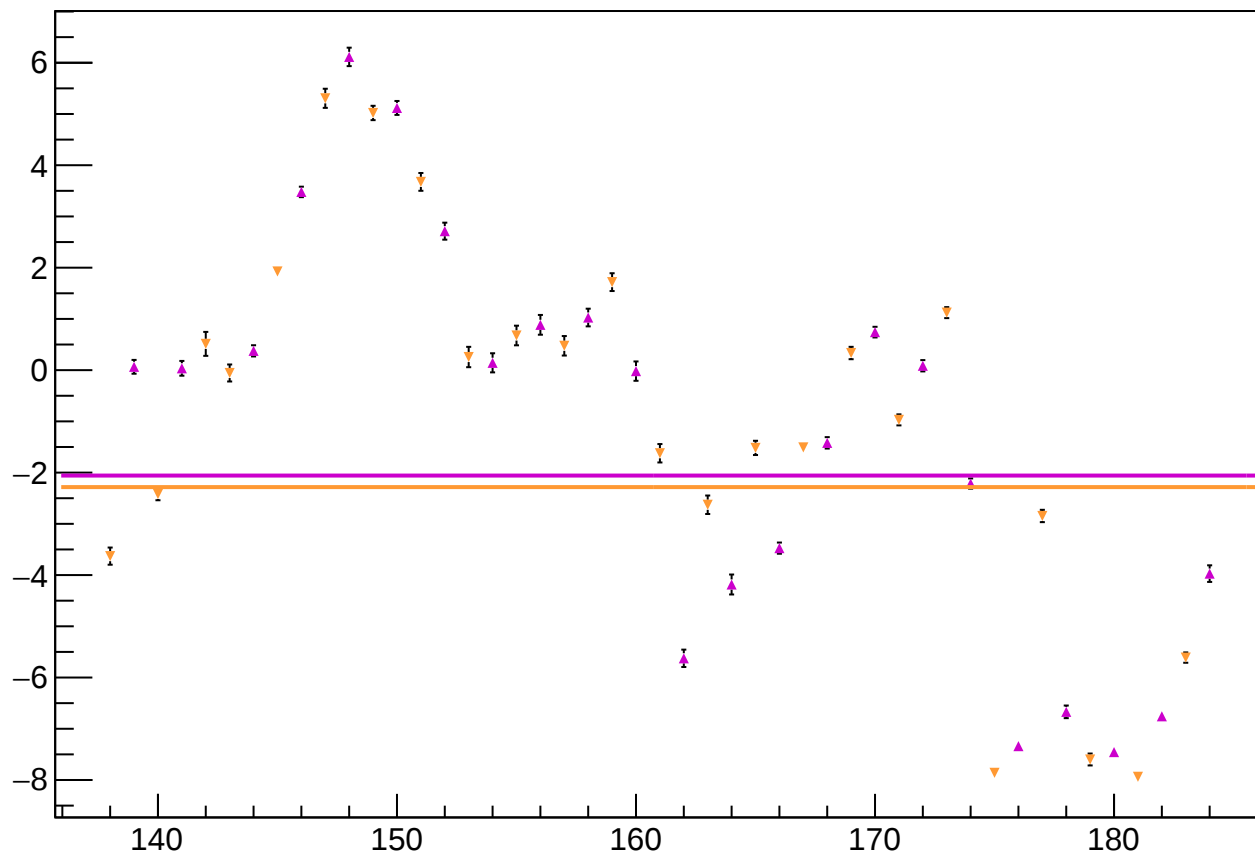
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.261+/-0.003  $\chi^2/\text{NDF}$ :1267.5/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.239+/-0.003  $\chi^2/\text{NDF}$ :1750.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -0.250+/-0.002  $\chi^2/\text{NDF}$ : 3049.8/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

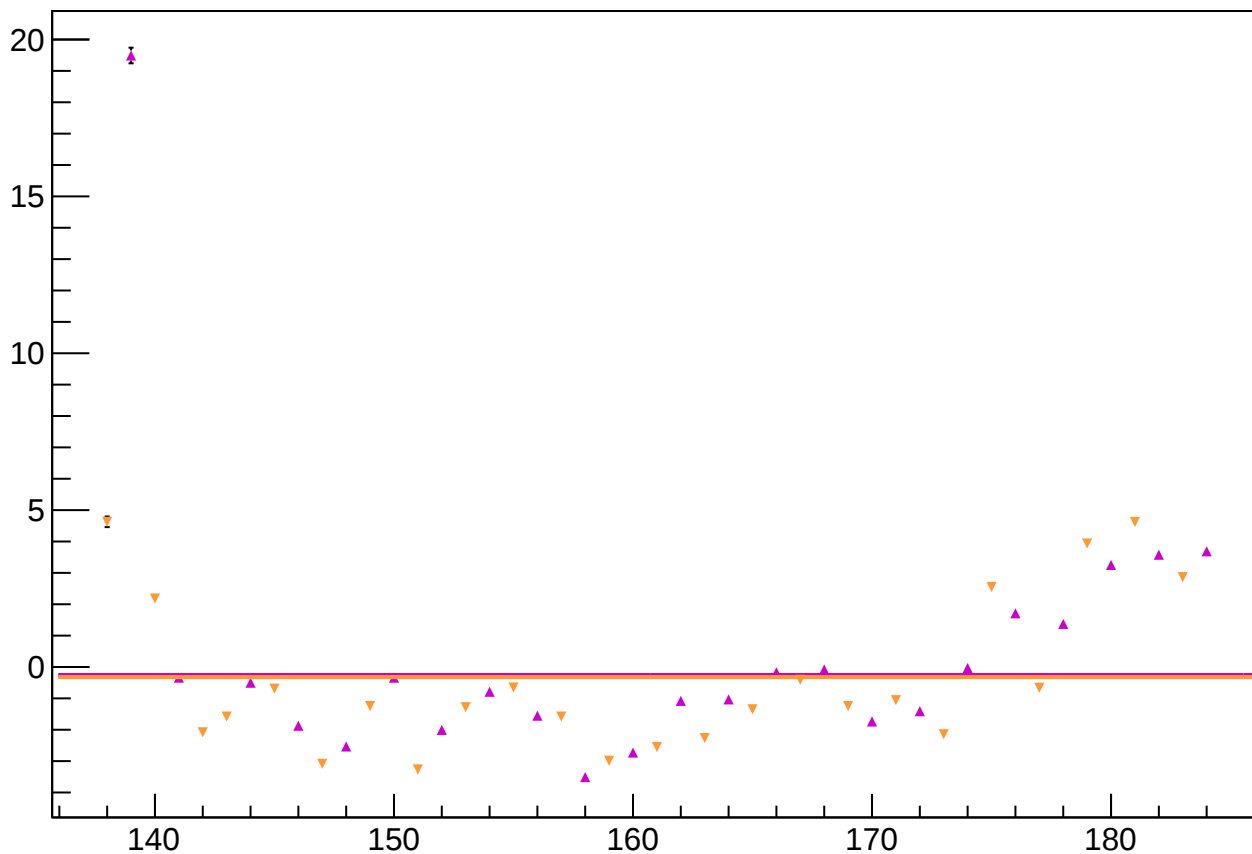
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.283 $\pm$ 0.026  $\chi^2$ /NDF:23302.6/23  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.058 $\pm$ 0.026  $\chi^2$ /NDF:23343.8/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -2.170 $\pm$ 0.018  $\chi^2$ /NDF: 46684.1/46  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.323+/-0.021  $\chi^2/\text{NDF}$ :12576.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

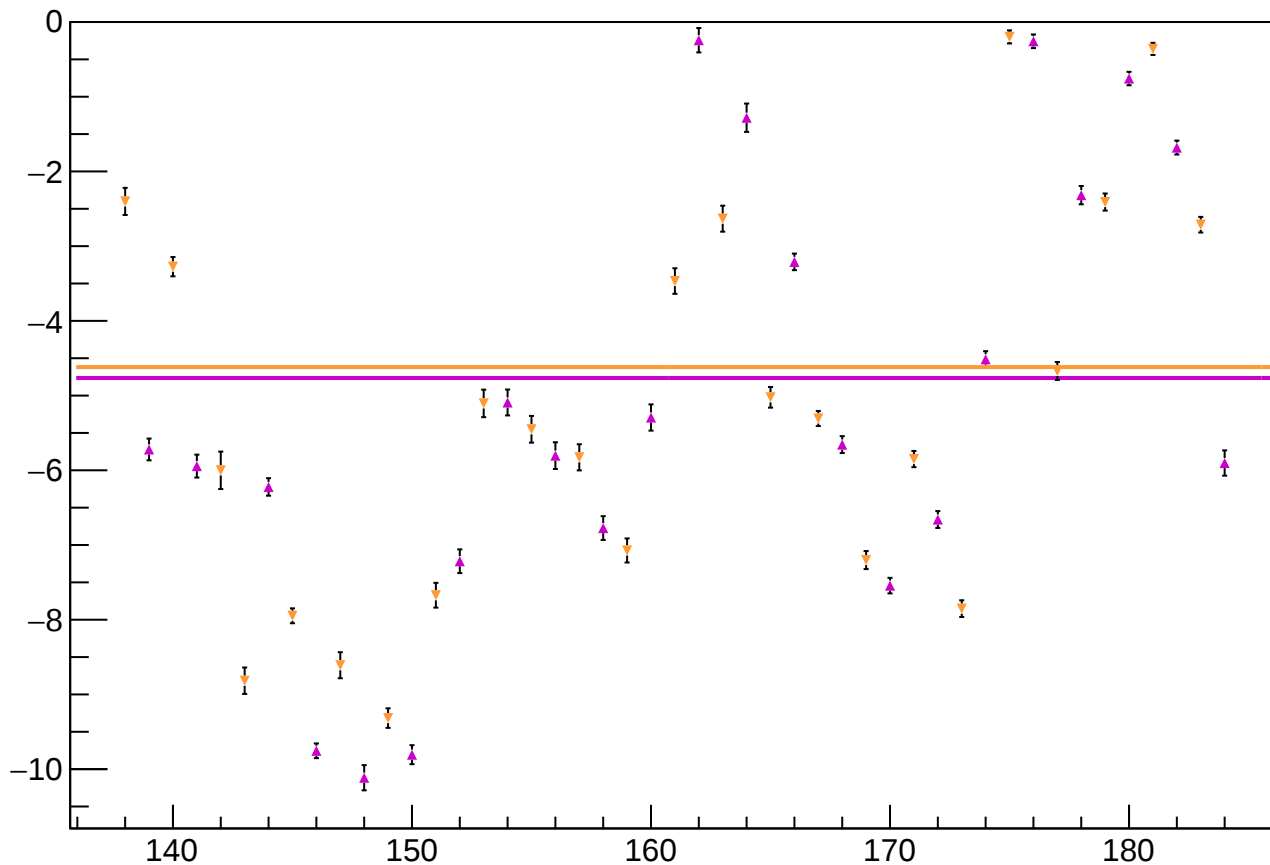
Left In: -0.255+/-0.021  $\chi^2/\text{NDF}$ :14162.0/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.289+/-0.015  $\chi^2/\text{NDF}$ : 26744.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-4.619 \pm 0.026$   $\chi^2/\text{NDF}$ : 12072.2/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

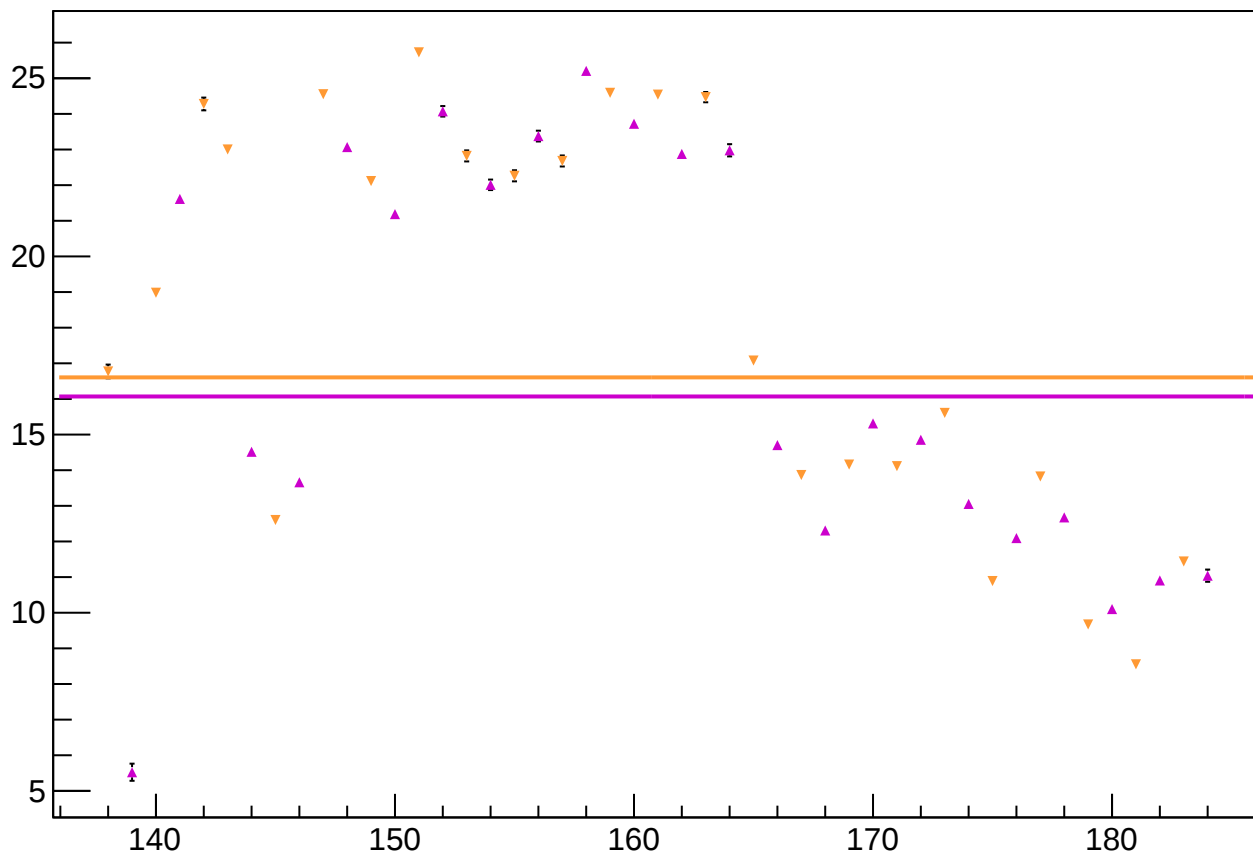
Left In:  $-4.764 \pm 0.026$   $\chi^2/\text{NDF}$ : 14163.2/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-4.692 \pm 0.018$   $\chi^2/\text{NDF}$ : 26251.1/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 16.605+/-0.023  $\chi^2/\text{NDF}$ : 53683.0/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

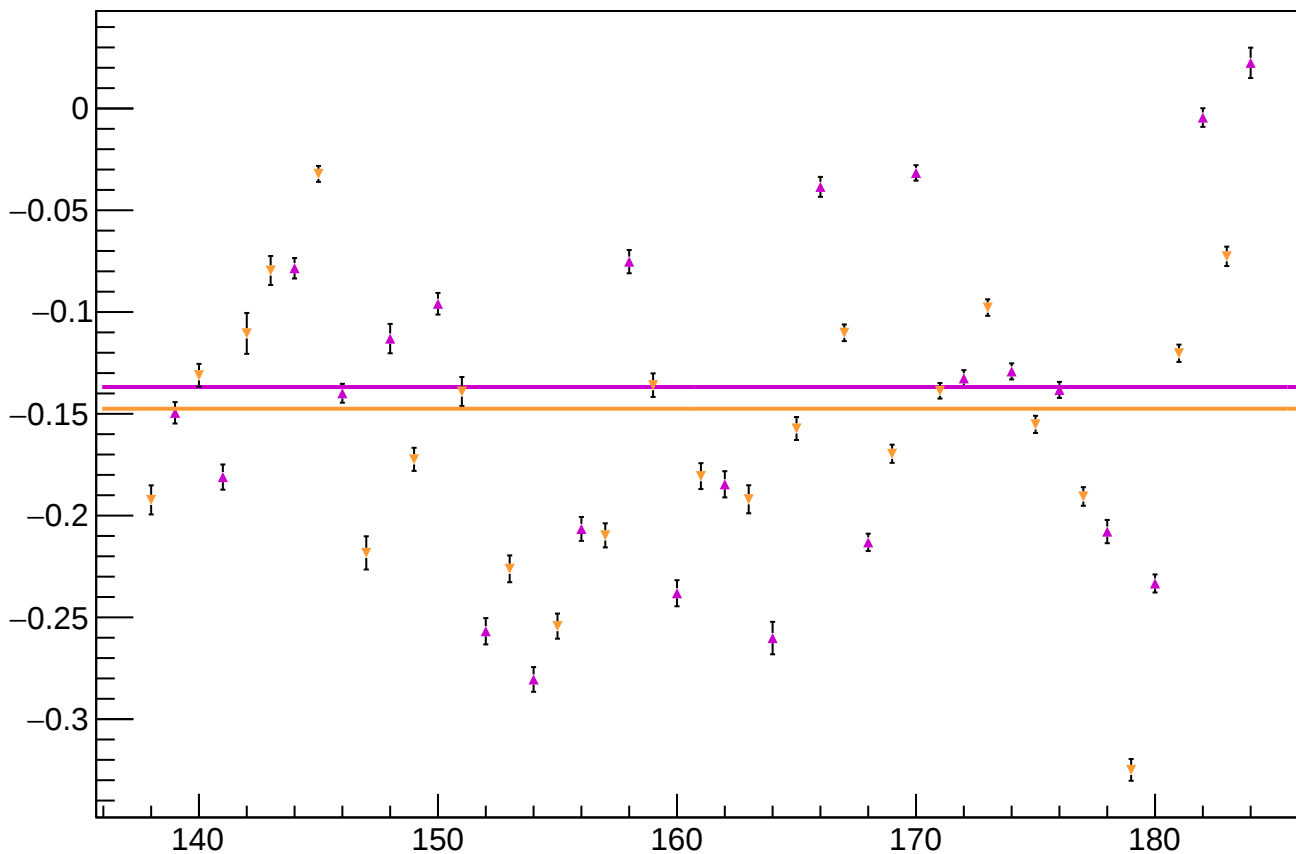
Left In: 16.069+/-0.023  $\chi^2/\text{NDF}$ : 42736.3/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.338+/-0.017  $\chi^2/\text{NDF}$ : 96681.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.147 $\pm$ 0.001  $\chi^2$ /NDF:3496.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

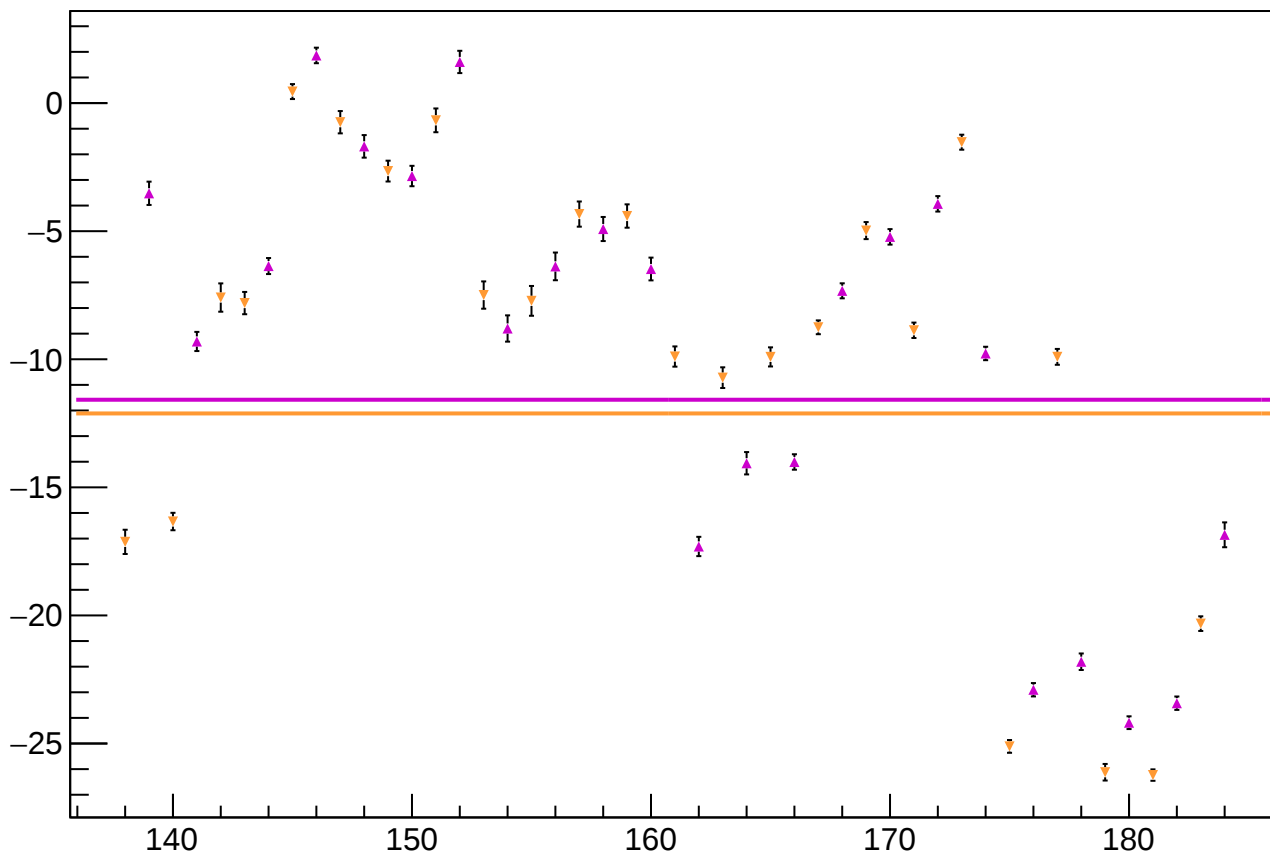
Left In: -0.137 $\pm$ 0.001  $\chi^2$ /NDF:5383.4/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.142 $\pm$ 0.001  $\chi^2$ /NDF: 8929.7/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -12.115 $\pm$ 0.071  $\chi^2$ /NDF:16366.2/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

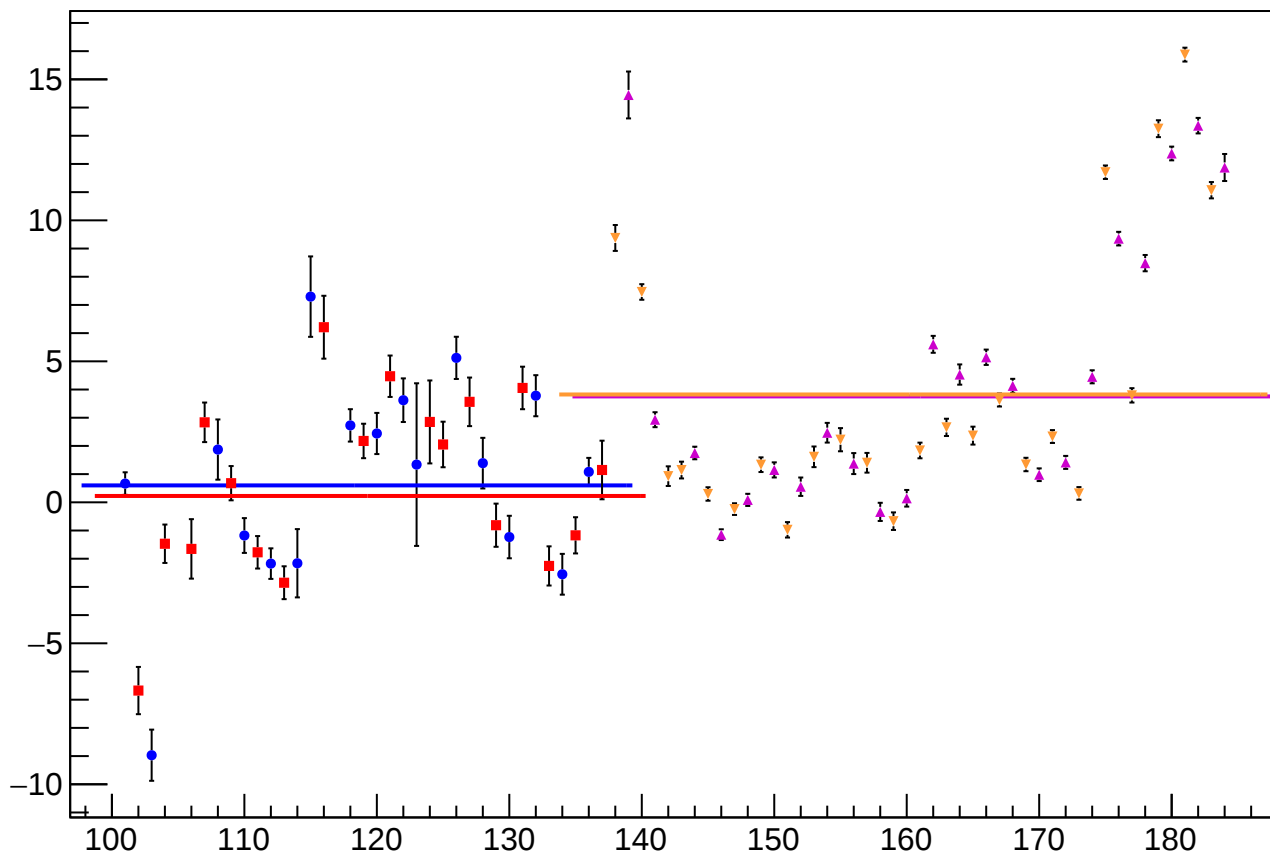
Left In: -11.580 $\pm$ 0.071  $\chi^2$ /NDF:14243.6/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.848 $\pm$ 0.050  $\chi^2$ /NDF: 30638.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.600 \pm 0.169$   $\chi^2/\text{NDF}$ : 291.9/16

Left Out:  $3.824 \pm 0.056$   $\chi^2/\text{NDF}$ : 7363.4/23

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

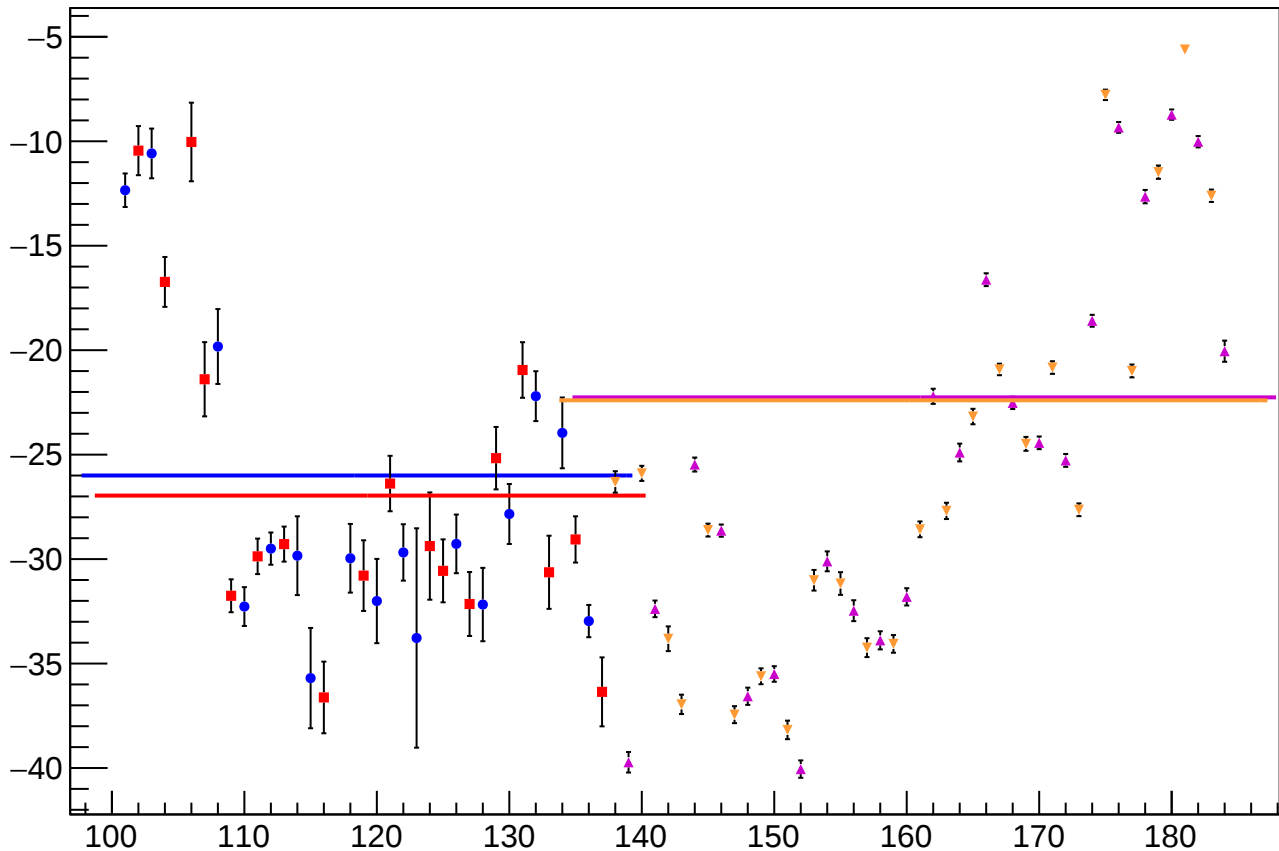
Left In:  $3.755 \pm 0.056$   $\chi^2/\text{NDF}$ : 5655.2/22

+ sign  $3.507 \pm 0.053$   $\chi^2/\text{NDF}$ : 7982.5/40

All:  $3.465 \pm 0.038$   $\chi^2/\text{NDF}$ : 14281.7/81

- sign  $3.422 \pm 0.054$   $\chi^2/\text{NDF}$ : 6298.0/40

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-25.998 \pm 0.300$   $\chi^2/\text{NDF}: 692.6/16$

Left Out:  $-22.400 \pm 0.071$   $\chi^2/\text{NDF}: 19551.3/23$

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}: 535.4/17$

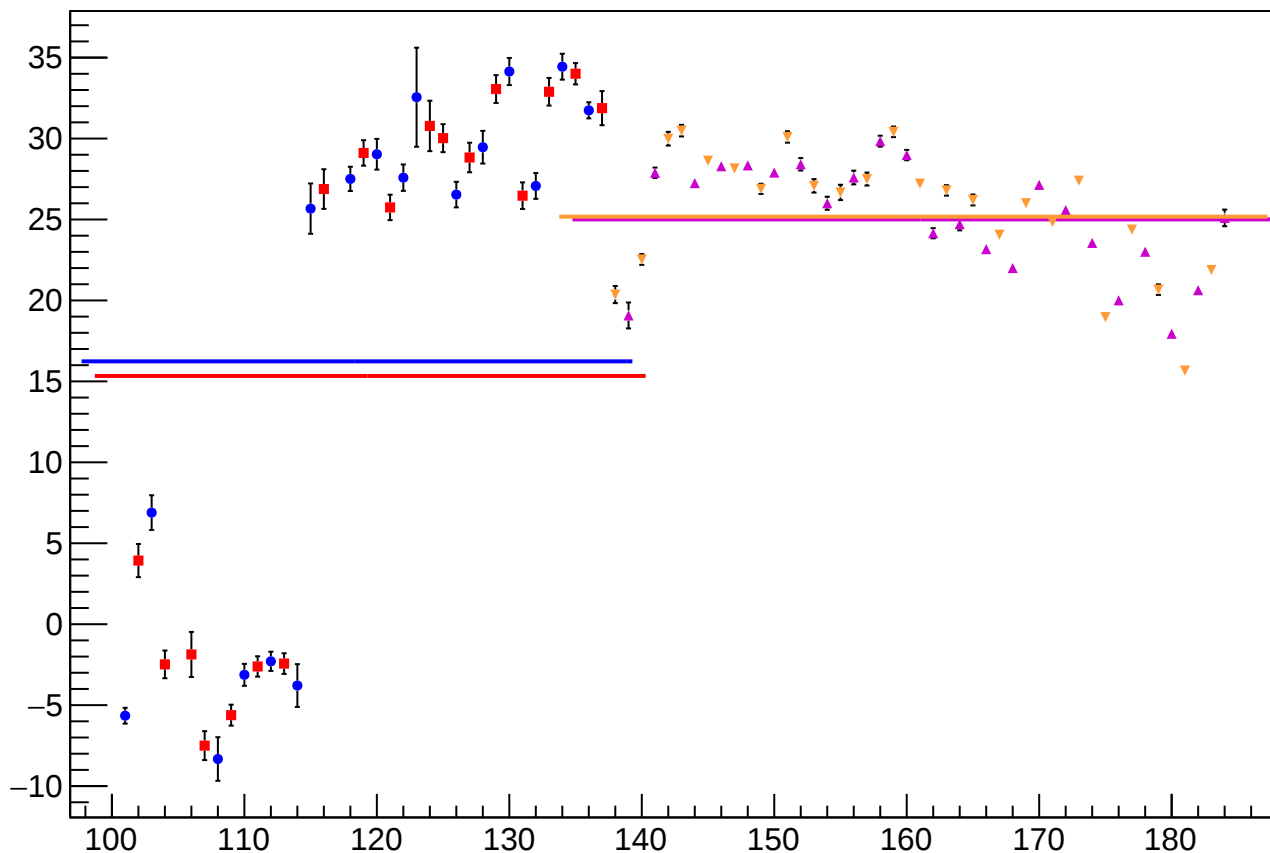
Left In:  $-22.258 \pm 0.071$   $\chi^2/\text{NDF}: 17838.4/22$

+ sign  $-22.592 \pm 0.069$   $\chi^2/\text{NDF}: 20380.0/40$

All:  $-22.552 \pm 0.049$   $\chi^2/\text{NDF}: 38989.5/81$

- sign  $-22.512 \pm 0.069$   $\chi^2/\text{NDF}: 18608.9/40$

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 16.237 $\pm$ 0.191  $\chi^2$ /NDF: 7579.9/16

Left Out: 25.175 $\pm$ 0.063  $\chi^2$ /NDF: 3729.6/23

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

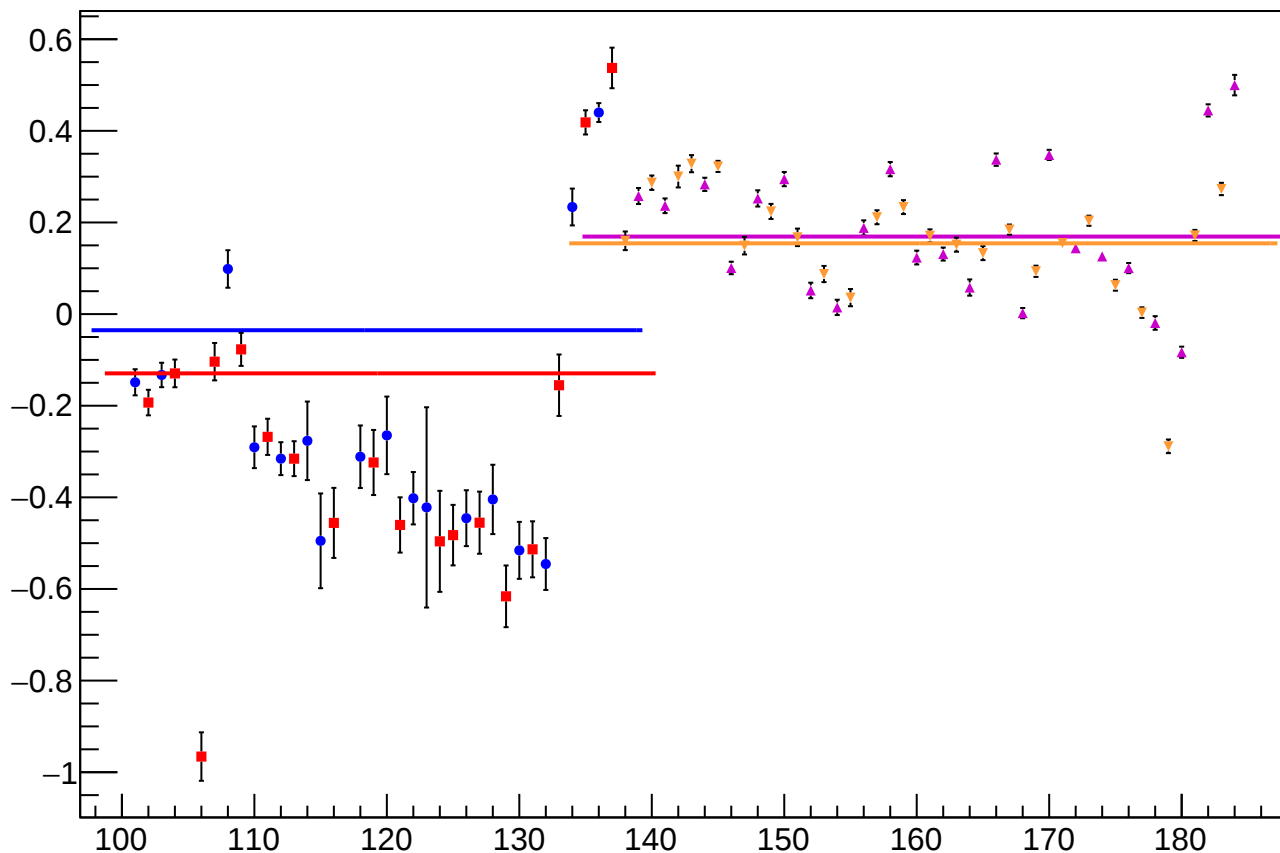
Left In: 25.005 $\pm$ 0.064  $\chi^2$ /NDF: 2733.7/22

+ sign 24.297 $\pm$ 0.060  $\chi^2$ /NDF: 13276.3/40

All: 24.196 $\pm$ 0.043  $\chi^2$ /NDF: 25454.3/81

- sign 24.093 $\pm$ 0.061  $\chi^2$ /NDF: 12172.2/40

# reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.035 \pm 0.010$   $\chi^2/\text{NDF}$ : 1013.6/16

Left Out:  $0.154 \pm 0.003$   $\chi^2/\text{NDF}$ : 1744.7/23

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

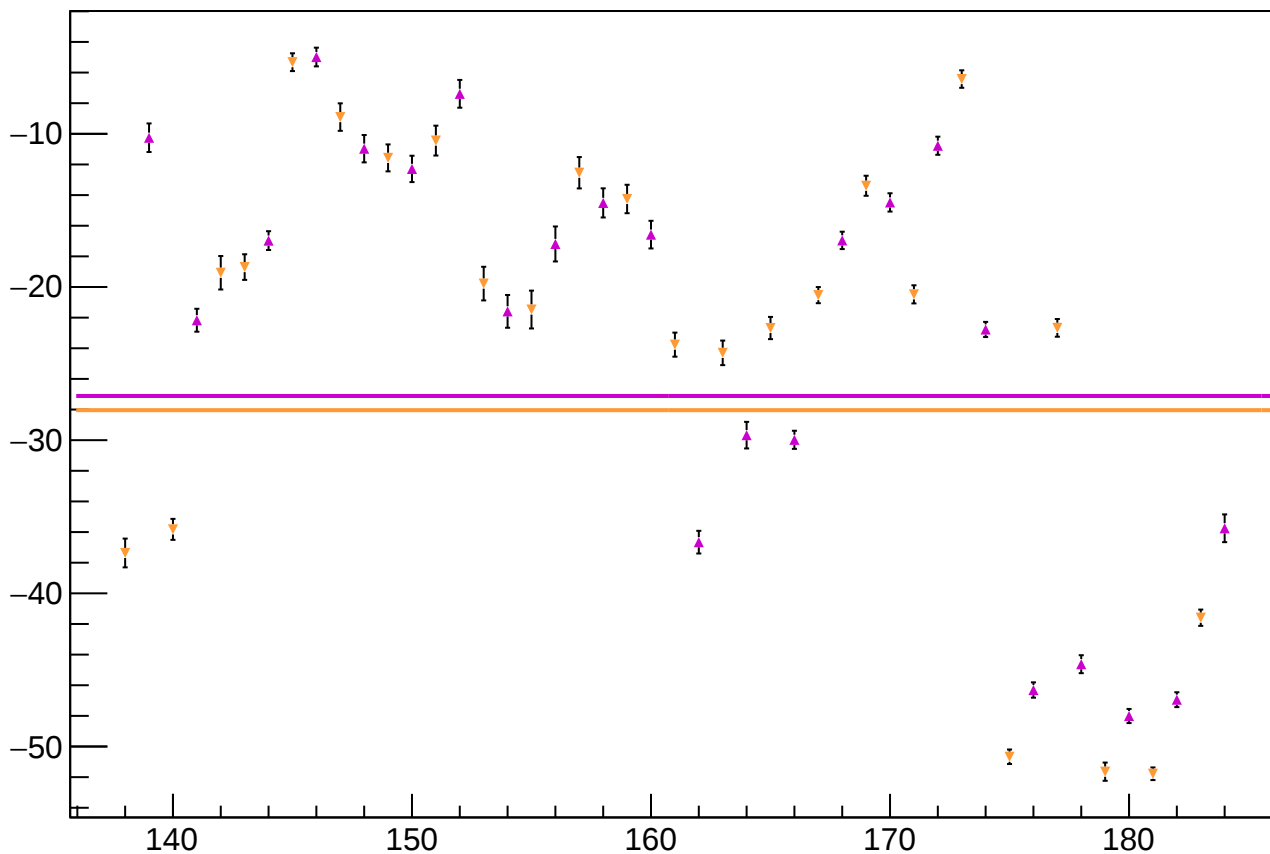
Left In:  $0.169 \pm 0.003$   $\chi^2/\text{NDF}$ : 2430.7/22

+ sign  $0.140 \pm 0.003$   $\chi^2/\text{NDF}$ : 3071.1/40

All:  $0.144 \pm 0.002$   $\chi^2/\text{NDF}$ : 7432.5/81

- sign  $0.148 \pm 0.003$   $\chi^2/\text{NDF}$ : 4358.3/40

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -28.041+/-0.138  $\chi^2/\text{NDF}$ :13905.6/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

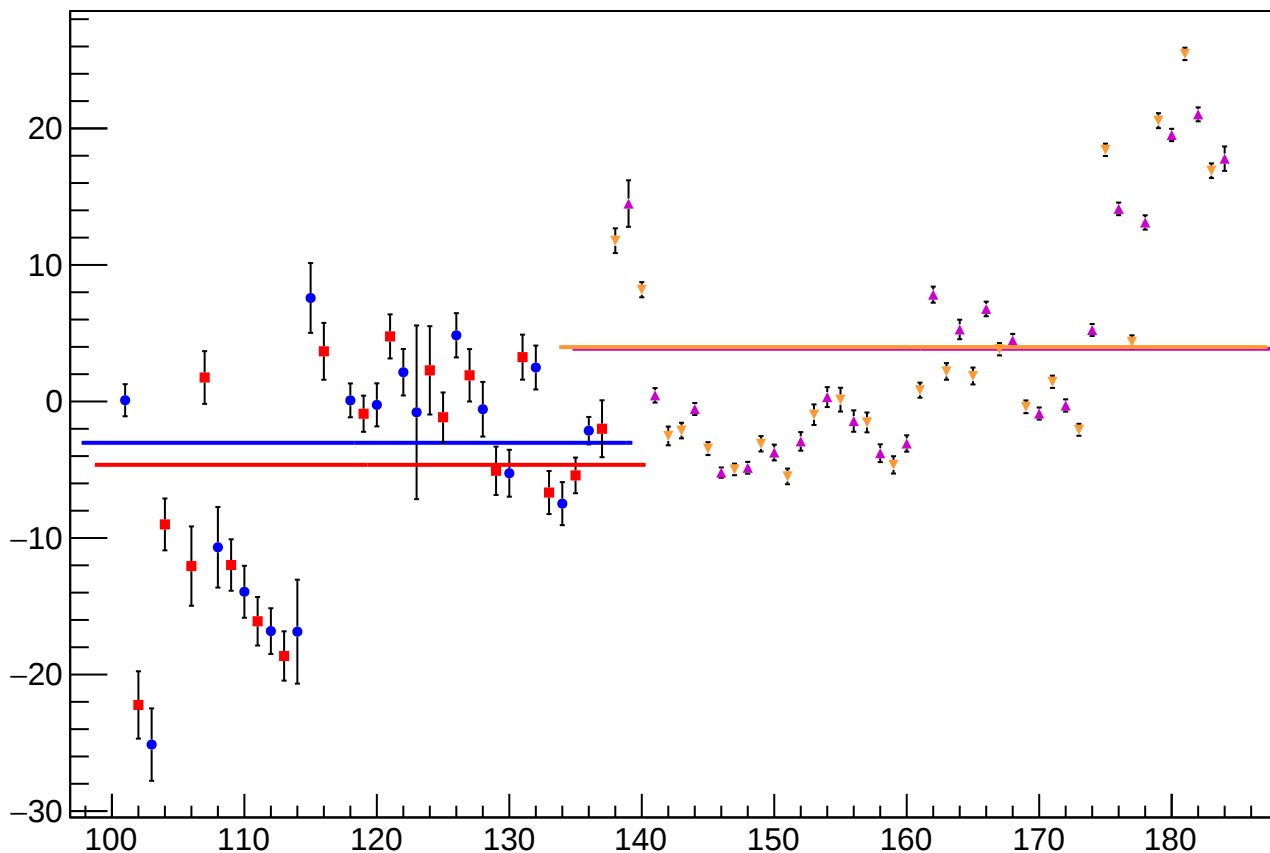
Left In: -27.114+/-0.139  $\chi^2/\text{NDF}$ :11443.8/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -27.579+/-0.098  $\chi^2/\text{NDF}$ : 25371.7/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.025 \pm 0.408$   $\chi^2/\text{NDF}$ : 280.6/16

Left Out:  $3.985 \pm 0.110$   $\chi^2/\text{NDF}$ : 6846.0/23

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

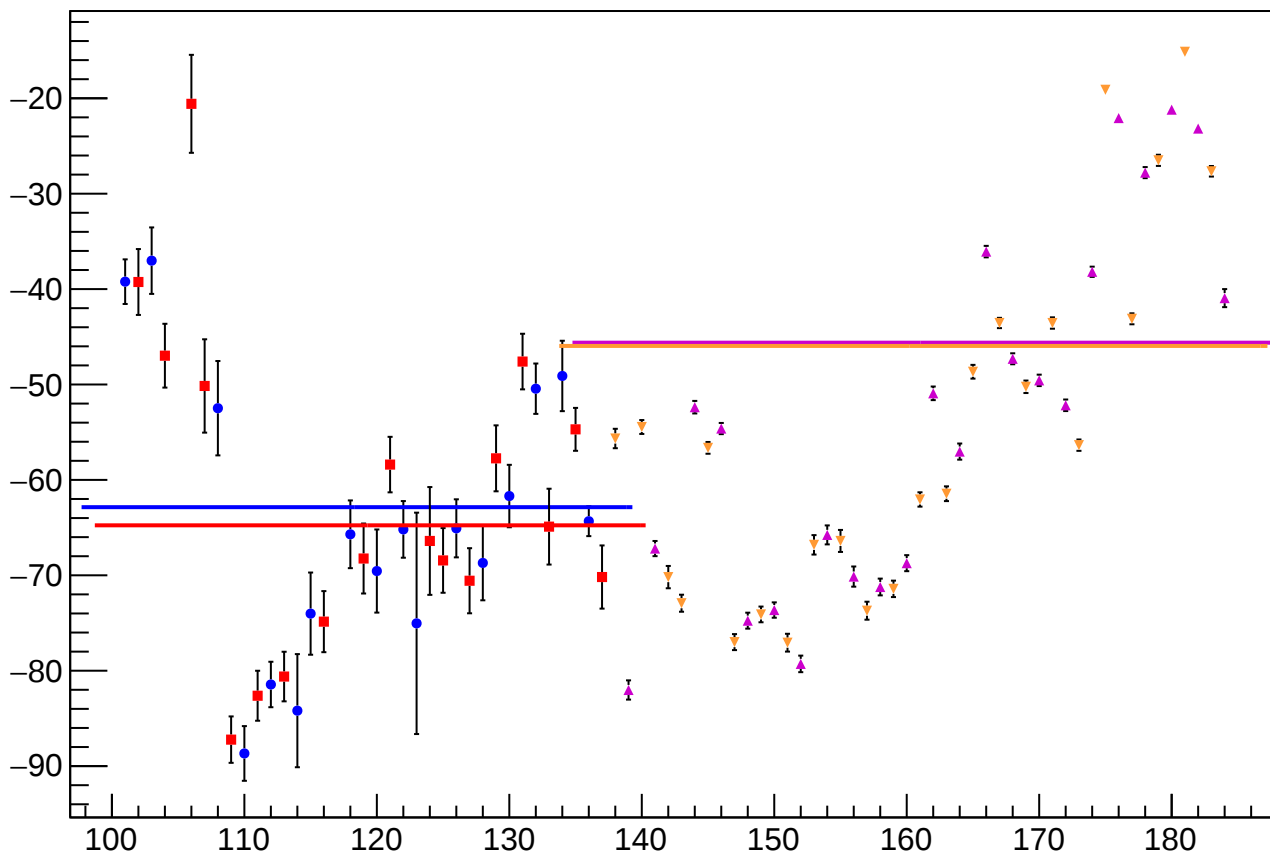
Left In:  $3.861 \pm 0.111$   $\chi^2/\text{NDF}$ : 5438.4/22

+ sign  $3.509 \pm 0.106$   $\chi^2/\text{NDF}$ : 7401.8/40

All:  $3.417 \pm 0.076$   $\chi^2/\text{NDF}$ : 13508.6/81

- sign  $3.323 \pm 0.107$   $\chi^2/\text{NDF}$ : 6105.3/40

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-62.858 \pm 0.739$   $\chi^2/\text{NDF}$ : 367.7/16

Left Out:  $-45.958 \pm 0.139$   $\chi^2/\text{NDF}$ : 19825.8/23

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}$ : 416.1/17

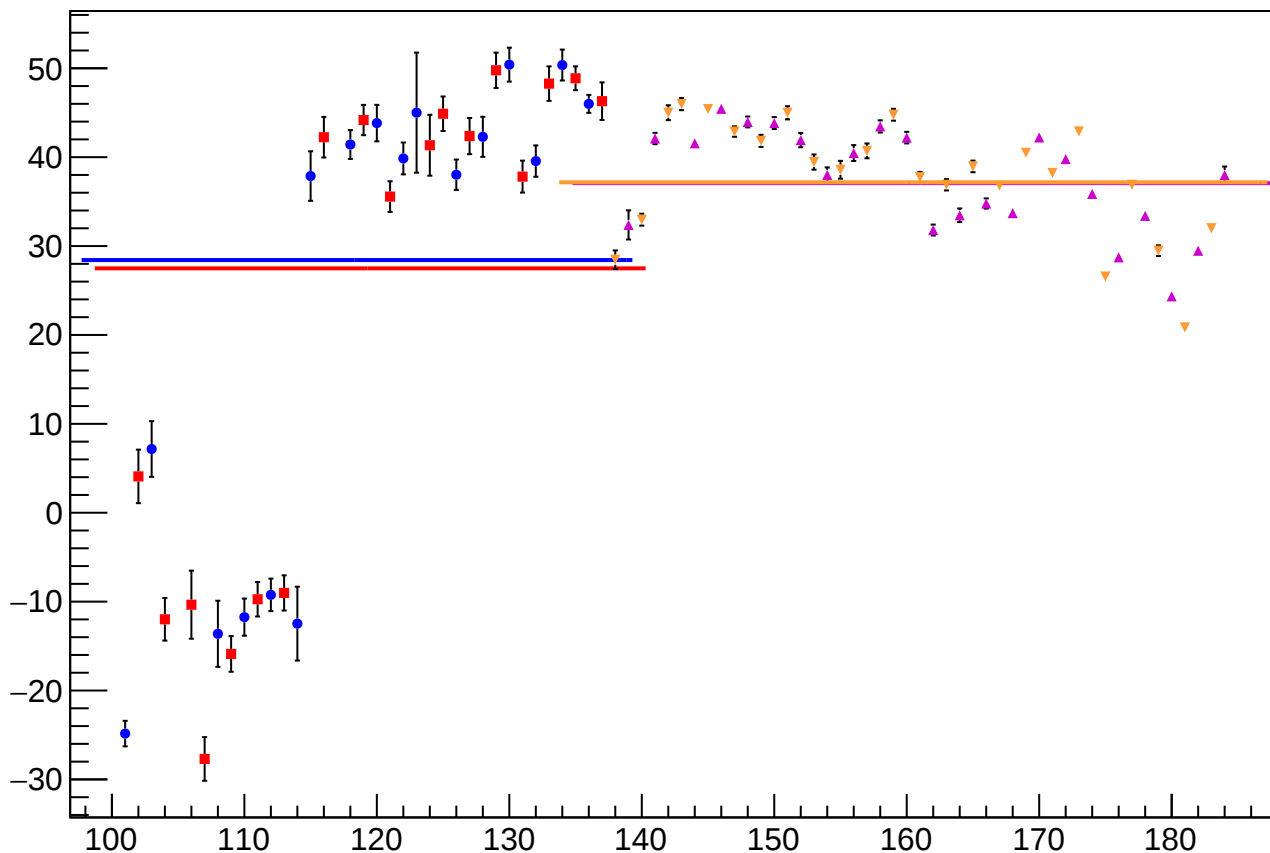
Left In:  $-45.616 \pm 0.139$   $\chi^2/\text{NDF}$ : 17743.8/22

+ sign  $-46.538 \pm 0.137$   $\chi^2/\text{NDF}$ : 20698.6/40

All:  $-46.393 \pm 0.097$   $\chi^2/\text{NDF}$ : 39485.9/81

- sign  $-46.249 \pm 0.137$   $\chi^2/\text{NDF}$ : 18785.1/40

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 28.426 $\pm$ 0.458  $\chi^2$ /NDF: 3322.4/16

Left Out: 37.173 $\pm$ 0.124  $\chi^2$ /NDF:3058.6/23

Right Out: 27.493 $\pm$ 0.479  $\chi^2$ /NDF: 3027.8/17

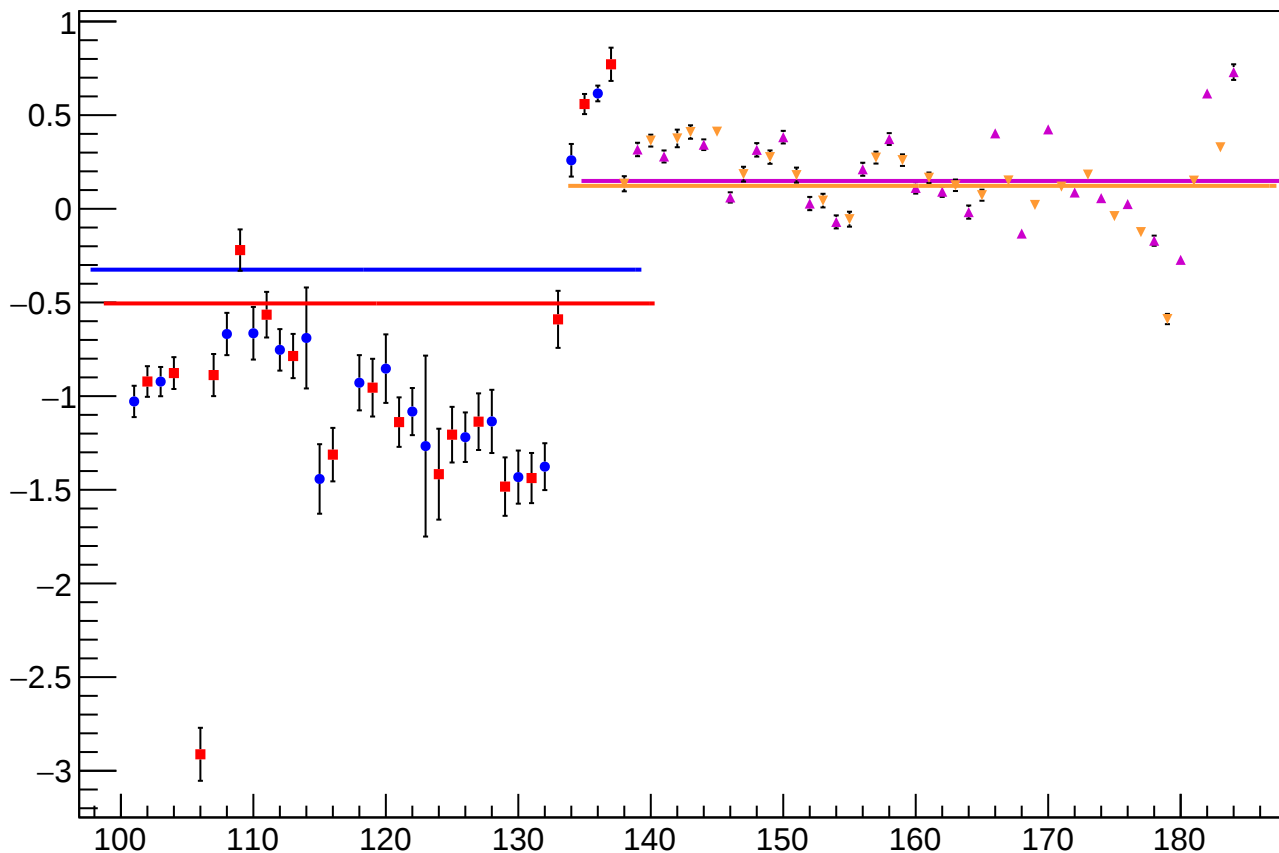
Left In: 37.079 $\pm$ 0.125  $\chi^2$ /NDF:2405.4/22

+ sign 36.575 $\pm$ 0.120  $\chi^2$ /NDF: 6721.1/40

All: 36.523 $\pm$ 0.085  $\chi^2$ /NDF: 12530.1/81

- sign 36.470 $\pm$ 0.121  $\chi^2$ /NDF: 5808.6/40

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.325 \pm 0.025$   $\chi^2/\text{NDF}$ : 1011.7/16

Left Out:  $0.122 \pm 0.006$   $\chi^2/\text{NDF}$ : 1337.8/23

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

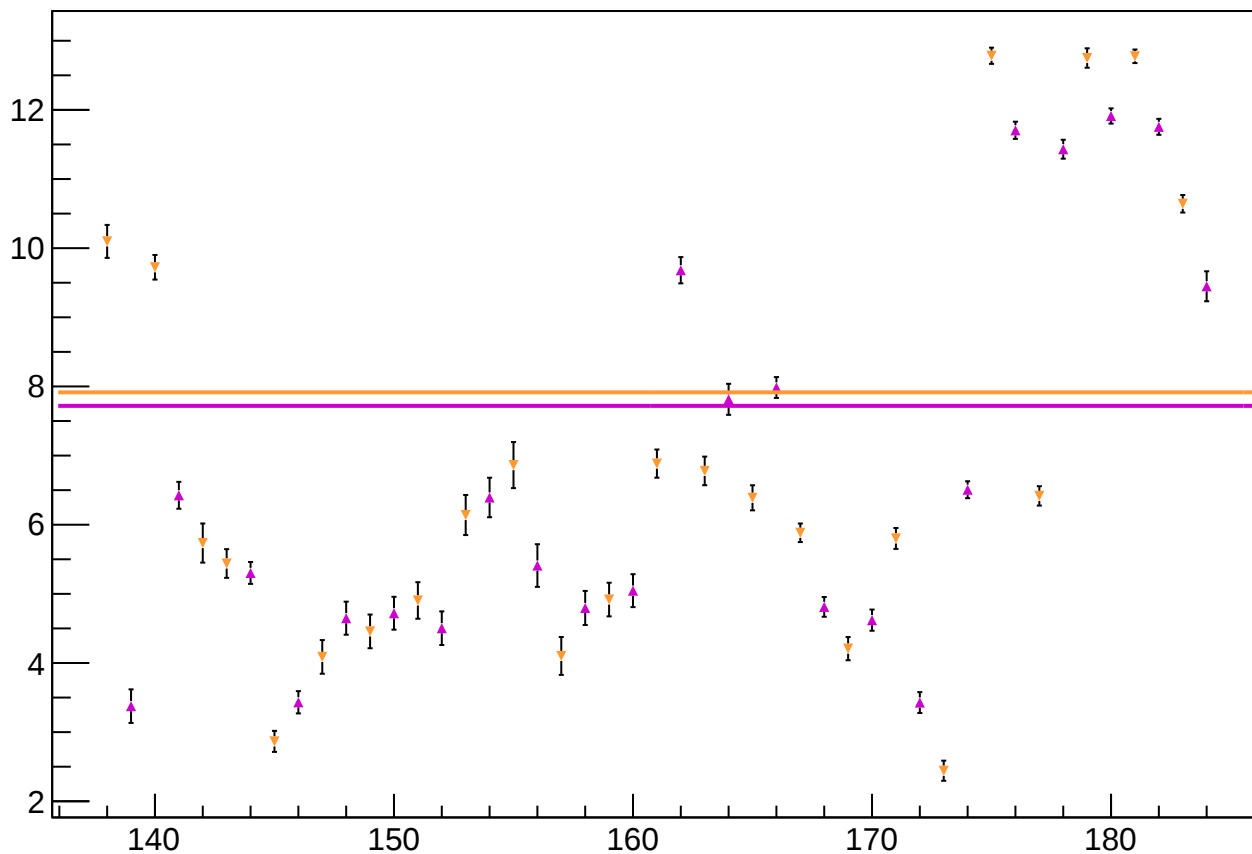
Left In:  $0.149 \pm 0.006$   $\chi^2/\text{NDF}$ : 1813.7/22

+ sign  $0.100 \pm 0.006$   $\chi^2/\text{NDF}$ : 2655.8/40

All:  $0.109 \pm 0.004$   $\chi^2/\text{NDF}$ : 6251.9/81

- sign  $0.118 \pm 0.006$   $\chi^2/\text{NDF}$ : 3590.9/40

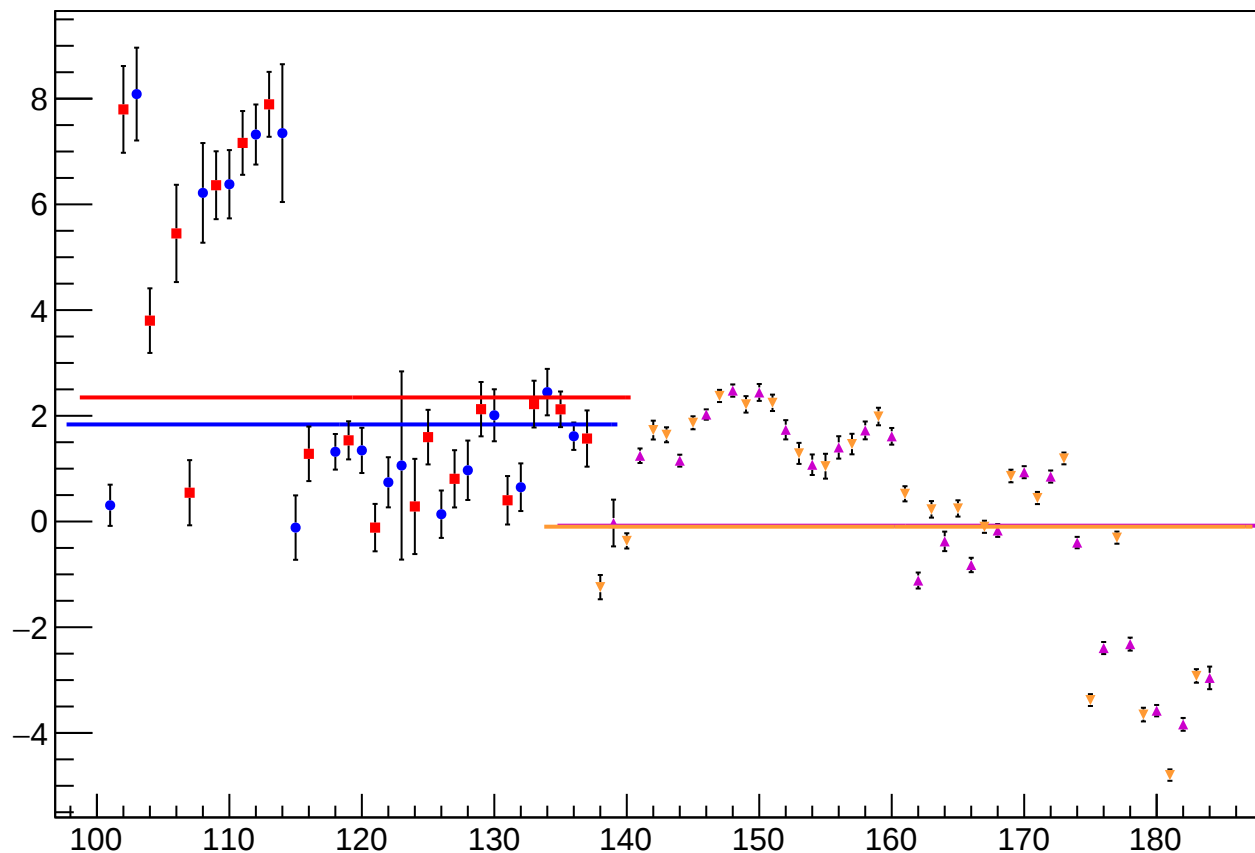
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.915+/-0.035  $\chi^2/\text{NDF}$ :10861.1/23  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.719+/-0.035  $\chi^2/\text{NDF}$ :8490.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 7.817+/-0.025  $\chi^2/\text{NDF}$ : 19367.3/46  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.837 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $-0.098 \pm 0.028$   $\chi^2/\text{NDF}$ : 5974.4/23

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

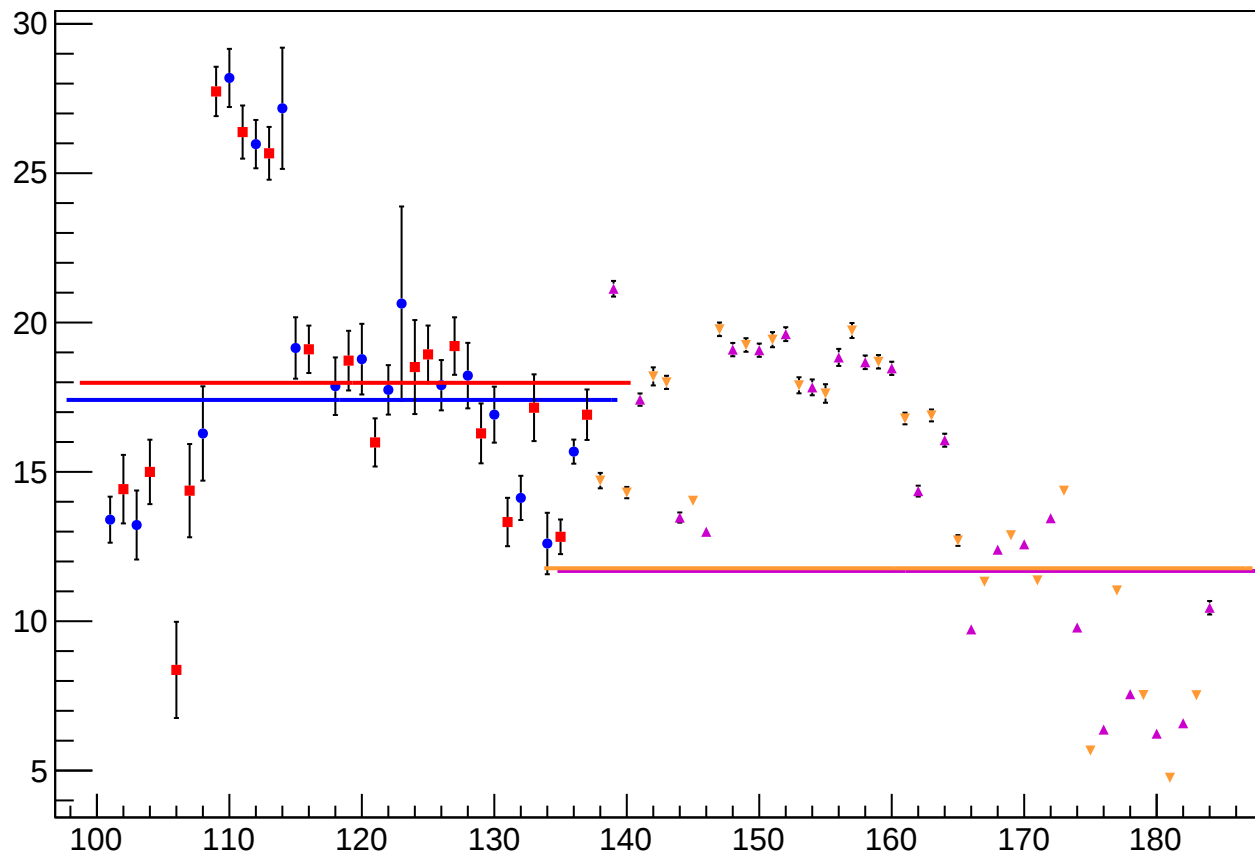
Left In:  $-0.079 \pm 0.028$   $\chi^2/\text{NDF}$ : 4989.1/22

+ sign  $0.009 \pm 0.027$   $\chi^2/\text{NDF}$ : 6530.5/40

All:  $0.026 \pm 0.019$   $\chi^2/\text{NDF}$ : 12222.5/81

- sign  $0.043 \pm 0.027$   $\chi^2/\text{NDF}$ : 5691.2/40

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.409 $\pm$ 0.212  $\chi^2$ /NDF: 365.1/16

Left Out: 11.773 $\pm$ 0.035  $\chi^2$ /NDF:18929.8/23

Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17

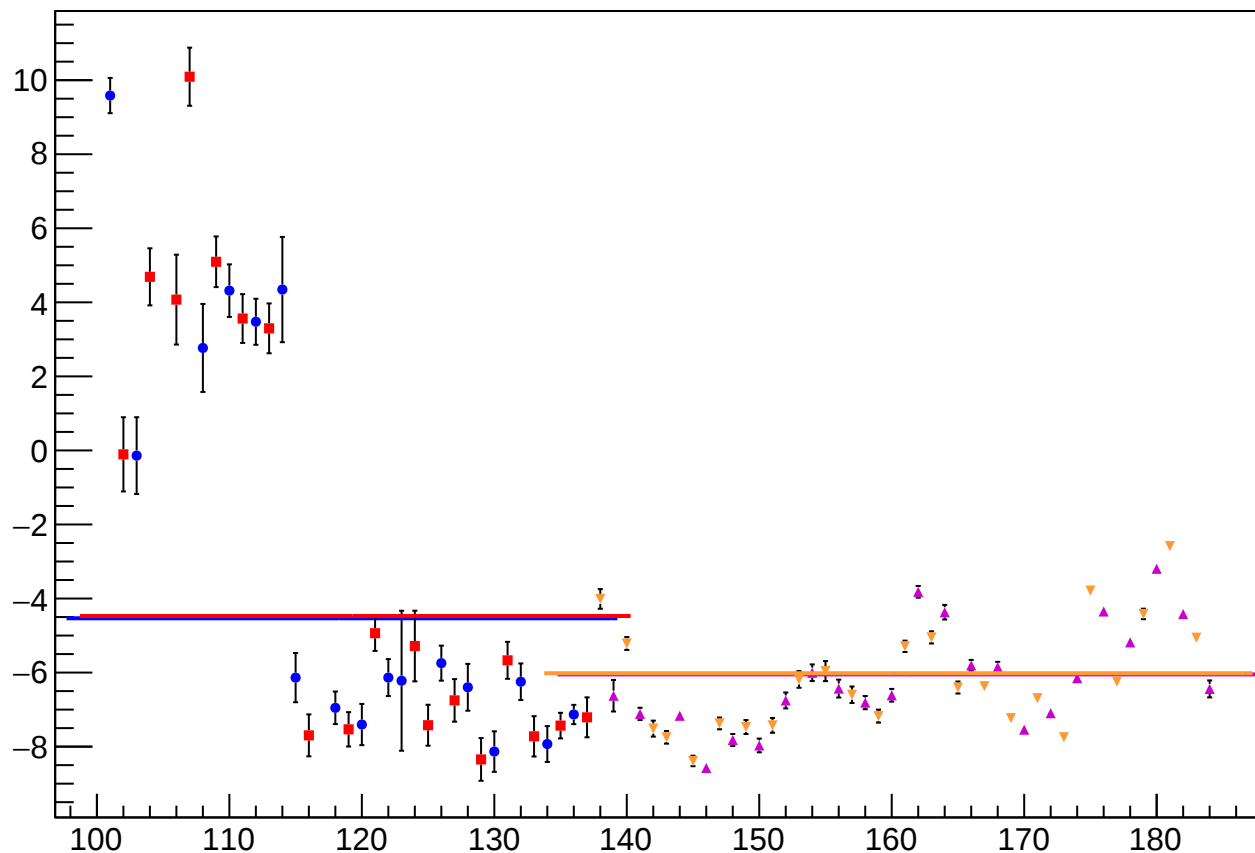
Left In: 11.683 $\pm$ 0.035  $\chi^2$ /NDF:16927.3/22

+ sign 11.923 $\pm$ 0.035  $\chi^2$ /NDF: 19983.1/40

All: 11.882 $\pm$ 0.024  $\chi^2$ /NDF: 38208.5/81

- sign 11.840 $\pm$ 0.035  $\chi^2$ /NDF: 18222.5/40

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-4.533 \pm 0.130$   $\chi^2/\text{NDF}$ : 1588.4/16

Left Out:  $-6.017 \pm 0.031$   $\chi^2/\text{NDF}$ : 2547.3/23

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

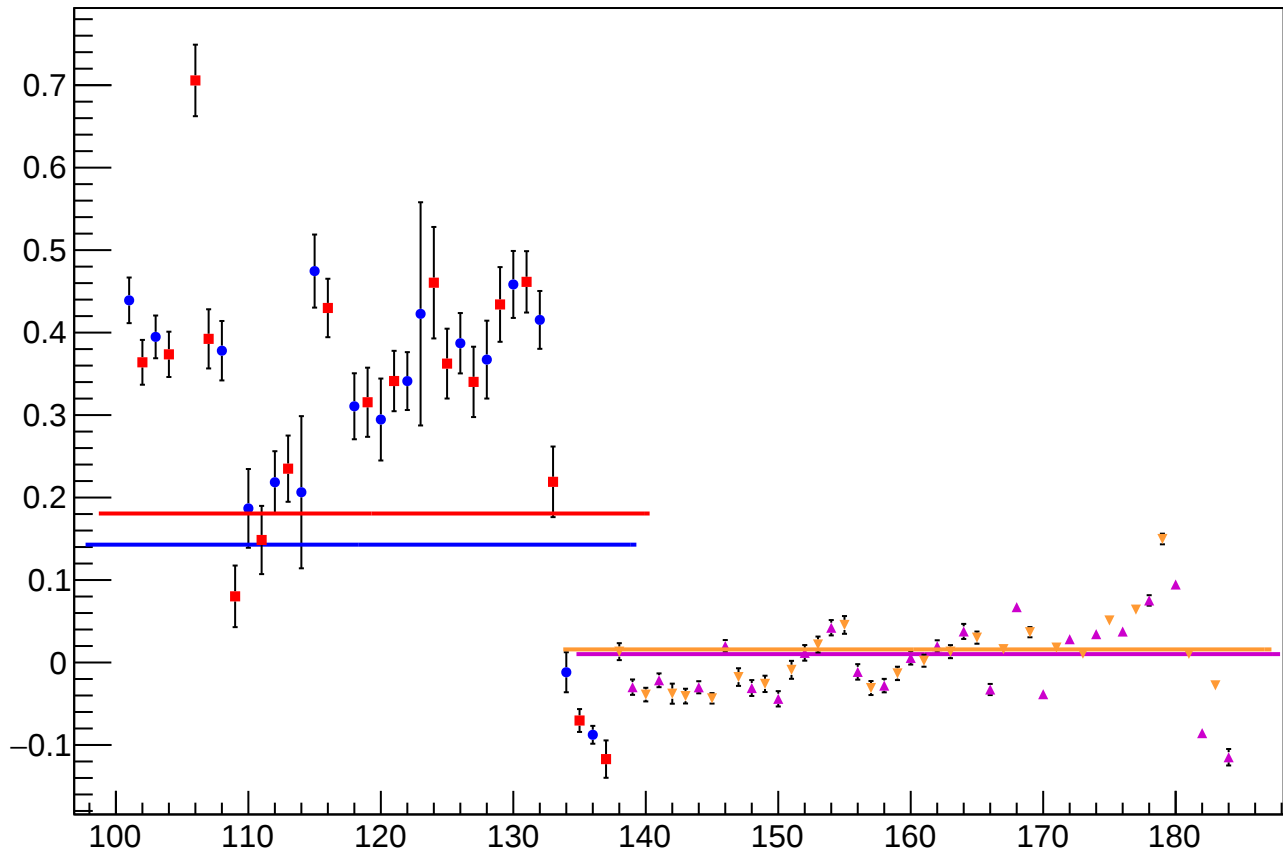
Left In:  $-6.050 \pm 0.032$   $\chi^2/\text{NDF}$ : 2303.3/22

+ sign  $-5.935 \pm 0.031$   $\chi^2/\text{NDF}$ : 4259.4/40

All:  $-5.952 \pm 0.022$   $\chi^2/\text{NDF}$ : 8028.9/81

- sign  $-5.970 \pm 0.031$   $\chi^2/\text{NDF}$ : 3768.8/40

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.143 $\pm$ 0.007  $\chi^2$ /NDF: 1058.9/16

Left Out: 0.016 $\pm$ 0.001  $\chi^2$ /NDF: 901.4/23

Right Out: 0.181 $\pm$ 0.007  $\chi^2$ /NDF: 1003.7/17

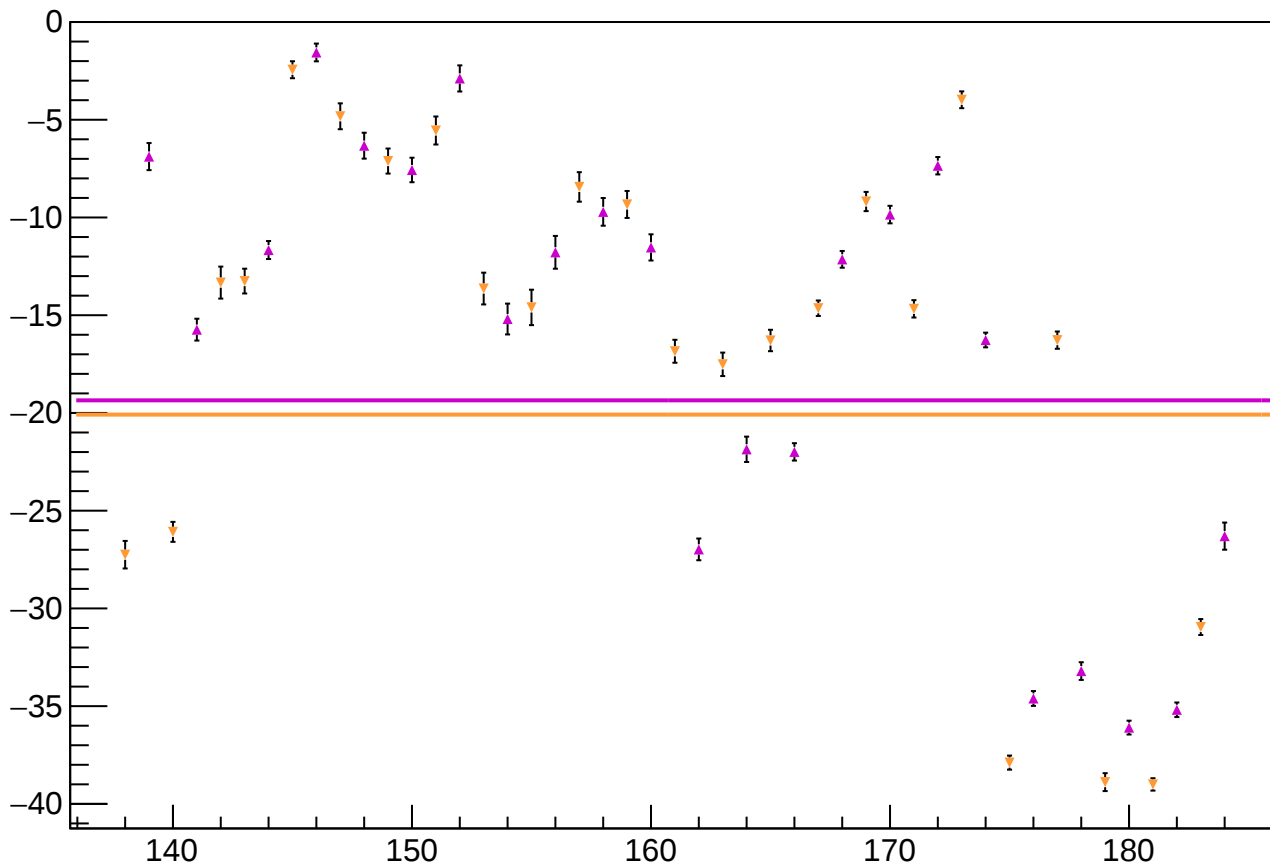
Left In: 0.010 $\pm$ 0.001  $\chi^2$ /NDF: 1224.5/22

+ sign 0.021 $\pm$ 0.001  $\chi^2$ /NDF: 2271.2/40

All: 0.019 $\pm$ 0.001  $\chi^2$ /NDF: 5015.5/81

- sign 0.016 $\pm$ 0.001  $\chi^2$ /NDF: 2739.0/40

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -20.086+/-0.104  $\chi^2/\text{NDF}$ :14809.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

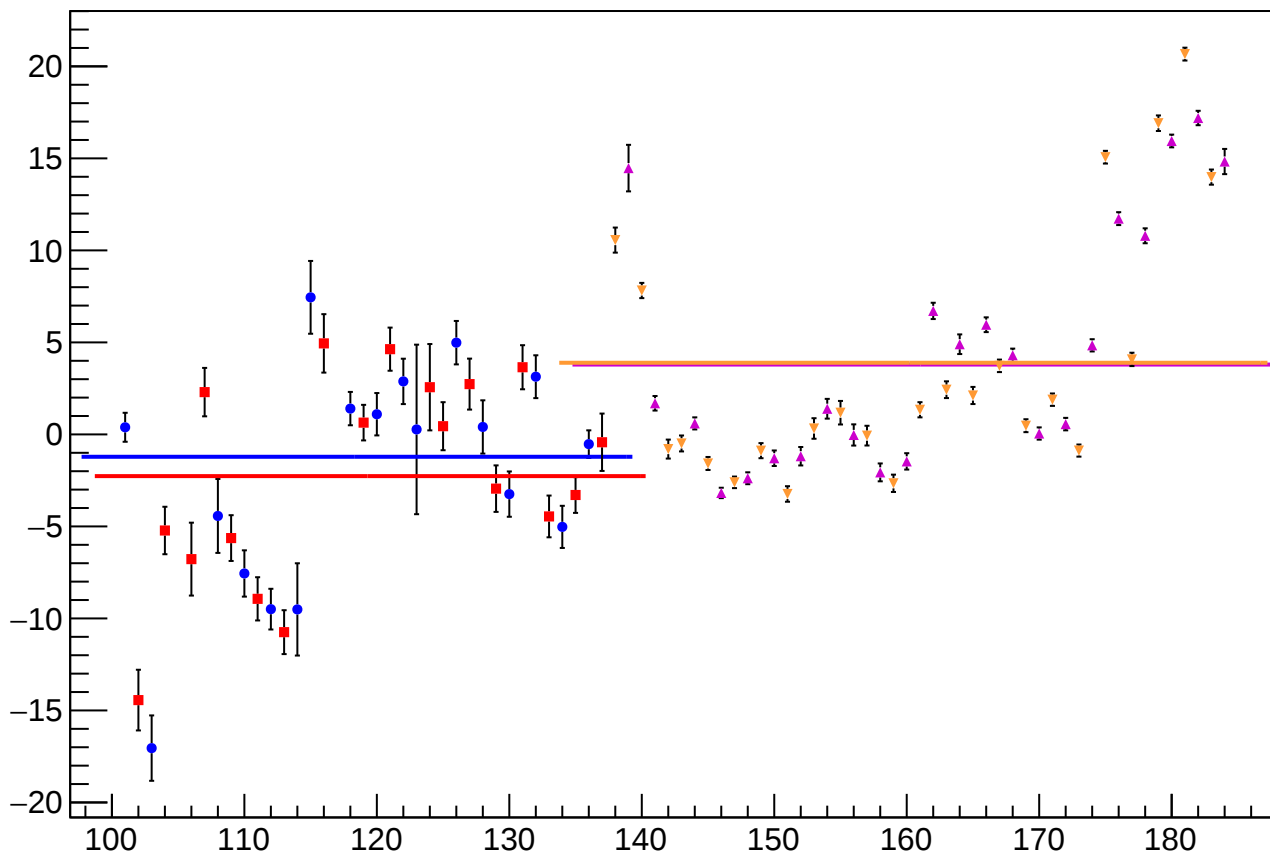
Left In: -19.355+/-0.105  $\chi^2/\text{NDF}$ :12417.1/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -19.721+/-0.074  $\chi^2/\text{NDF}$ : 27251.3/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-1.215 \pm 0.290$   $\chi^2/\text{NDF}$ : 278.7/16

Left Out:  $3.894 \pm 0.083$   $\chi^2/\text{NDF}$ : 7059.1/23

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

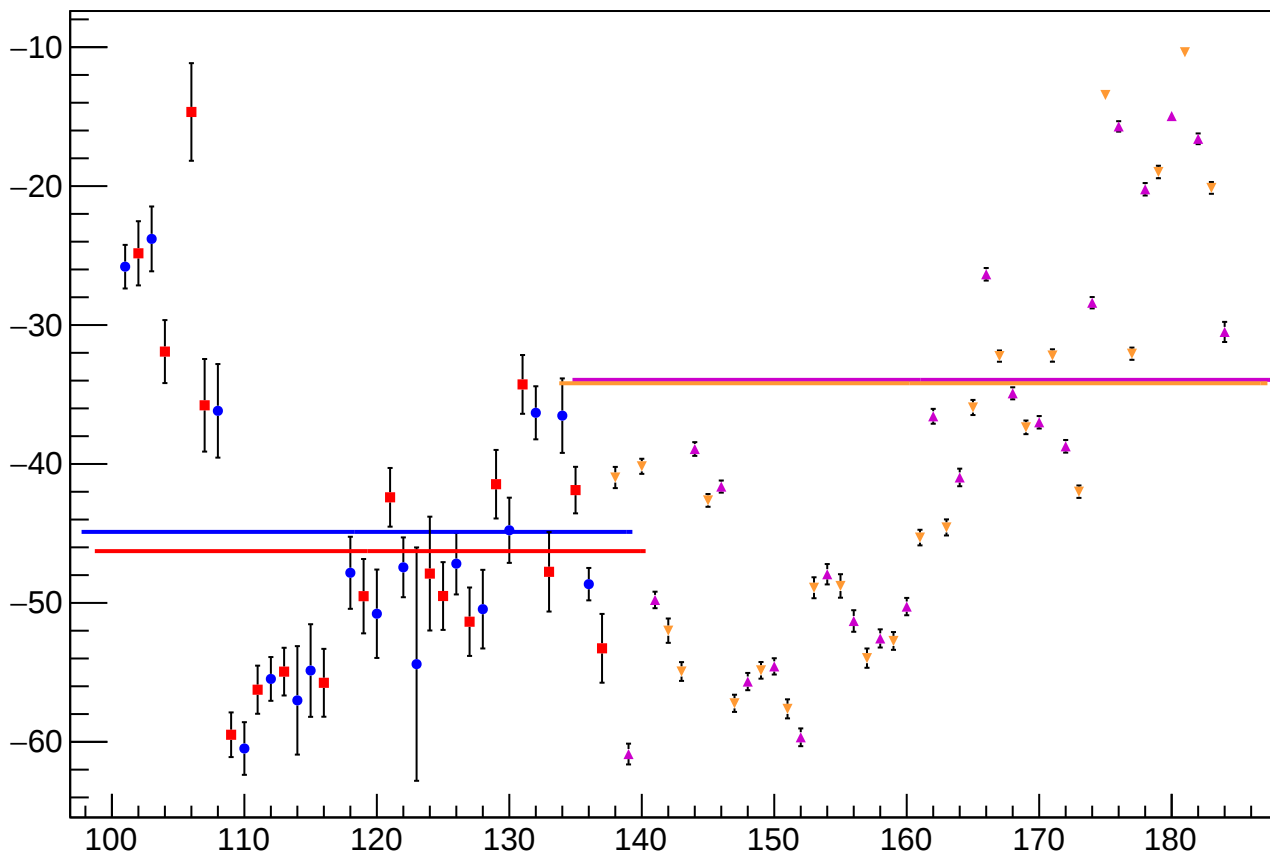
Left In:  $3.795 \pm 0.083$   $\chi^2/\text{NDF}$ : 5534.4/22

+ sign  $3.510 \pm 0.080$   $\chi^2/\text{NDF}$ : 7624.0/40

All:  $3.439 \pm 0.057$   $\chi^2/\text{NDF}$ : 13817.3/81

- sign  $3.368 \pm 0.080$   $\chi^2/\text{NDF}$ : 6191.7/40

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-44.888 \pm 0.523$   $\chi^2/\text{NDF}$ : 420.4/16

Left Out:  $-34.191 \pm 0.105$   $\chi^2/\text{NDF}$ : 19861.2/23

Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17

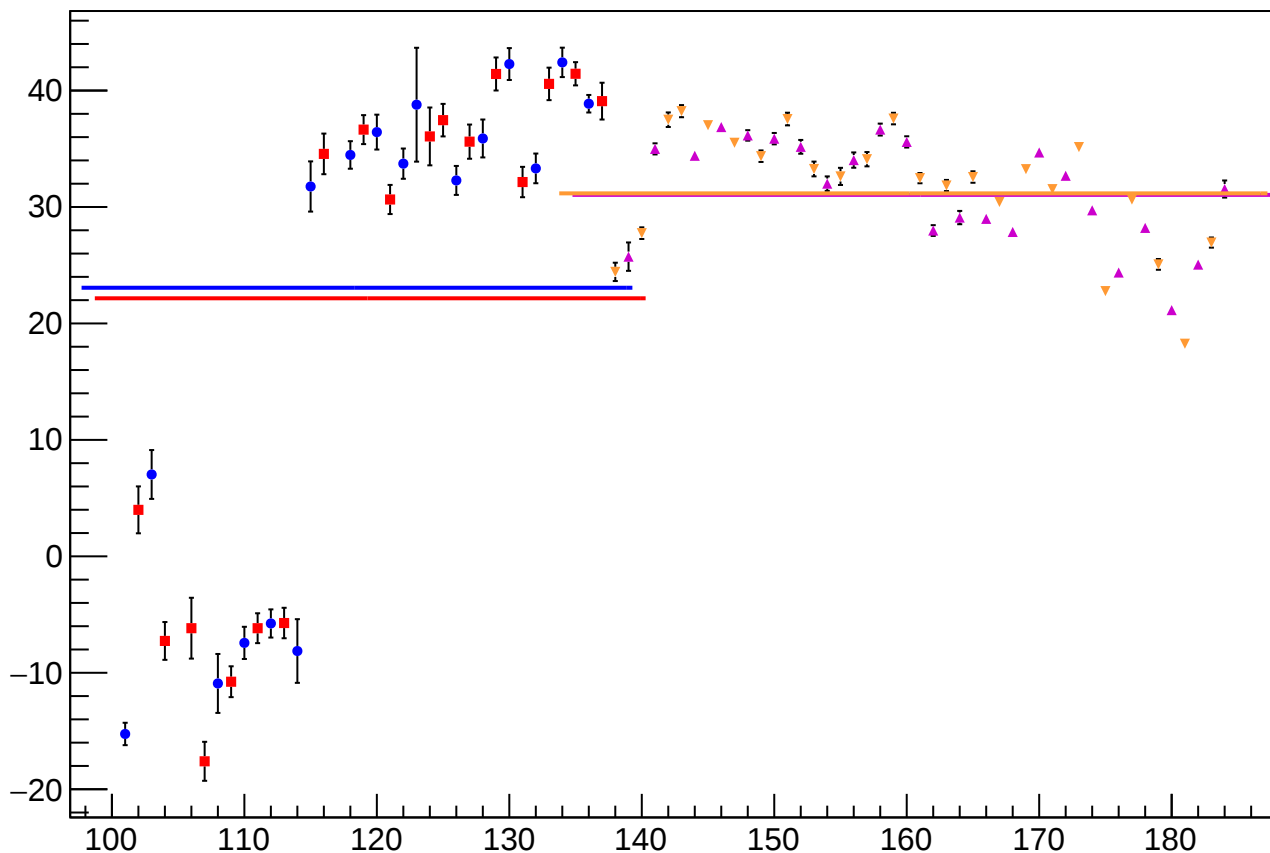
Left In:  $-33.946 \pm 0.105$   $\chi^2/\text{NDF}$ : 17855.4/22

+ sign  $-34.605 \pm 0.103$   $\chi^2/\text{NDF}$ : 20683.2/40

All:  $-34.508 \pm 0.073$   $\chi^2/\text{NDF}$ : 39482.4/81

- sign  $-34.411 \pm 0.103$   $\chi^2/\text{NDF}$ : 18797.4/40

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 23.066+/-0.327  $\chi^2$ /NDF: 4333.5/16

Left Out: 31.170+/-0.093  $\chi^2$ /NDF:3266.9/23

Right Out: 22.159+/-0.340  $\chi^2$ /NDF: 4025.5/17

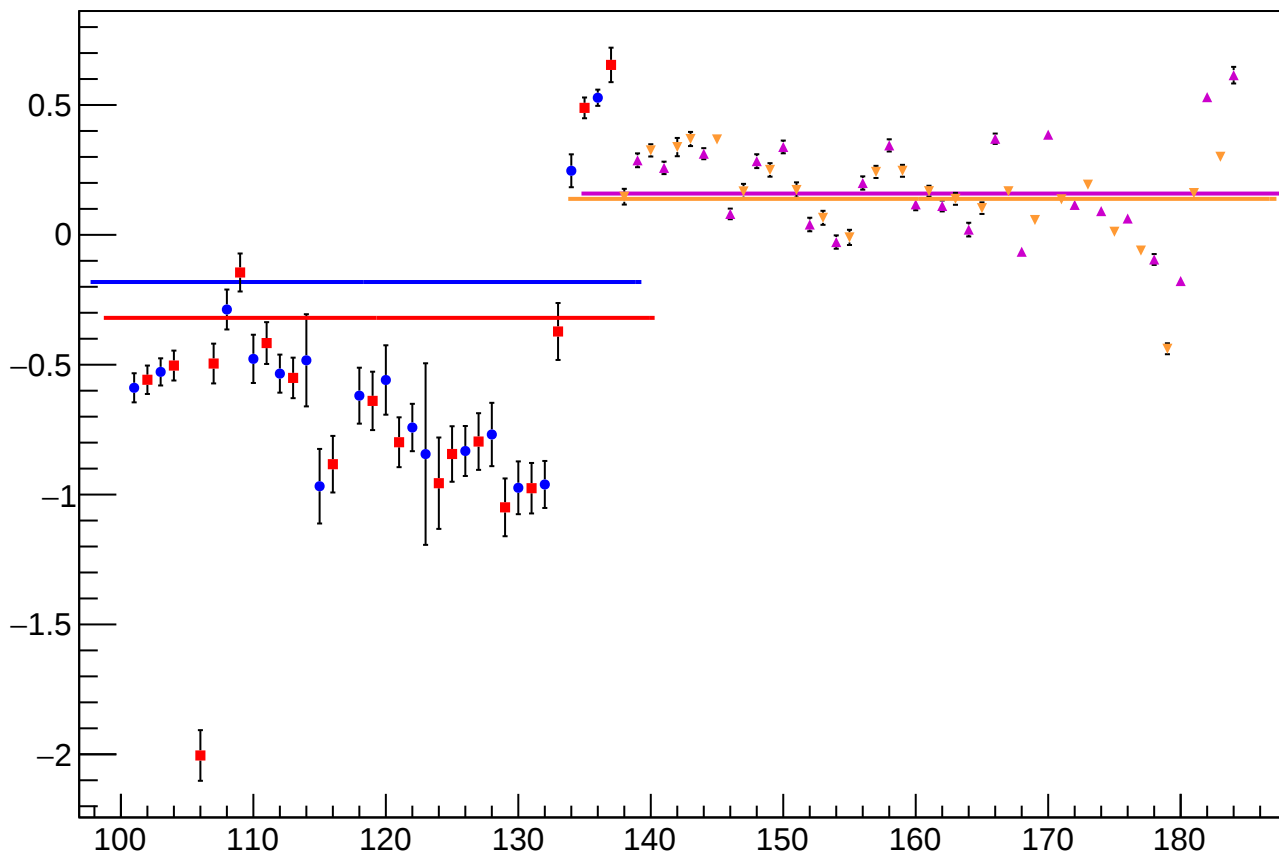
Left In: 31.040+/-0.094  $\chi^2$ /NDF:2488.6/22

+ sign 30.559+/-0.090  $\chi^2$ /NDF: 8169.8/40

All: 30.486+/-0.064  $\chi^2$ /NDF: 15319.2/81

- sign 30.411+/-0.090  $\chi^2$ /NDF: 7148.1/40

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.182 \pm 0.018$   $\chi^2/\text{NDF}$ : 996.9/16

Left Out:  $0.139 \pm 0.004$   $\chi^2/\text{NDF}$ : 1480.1/23

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

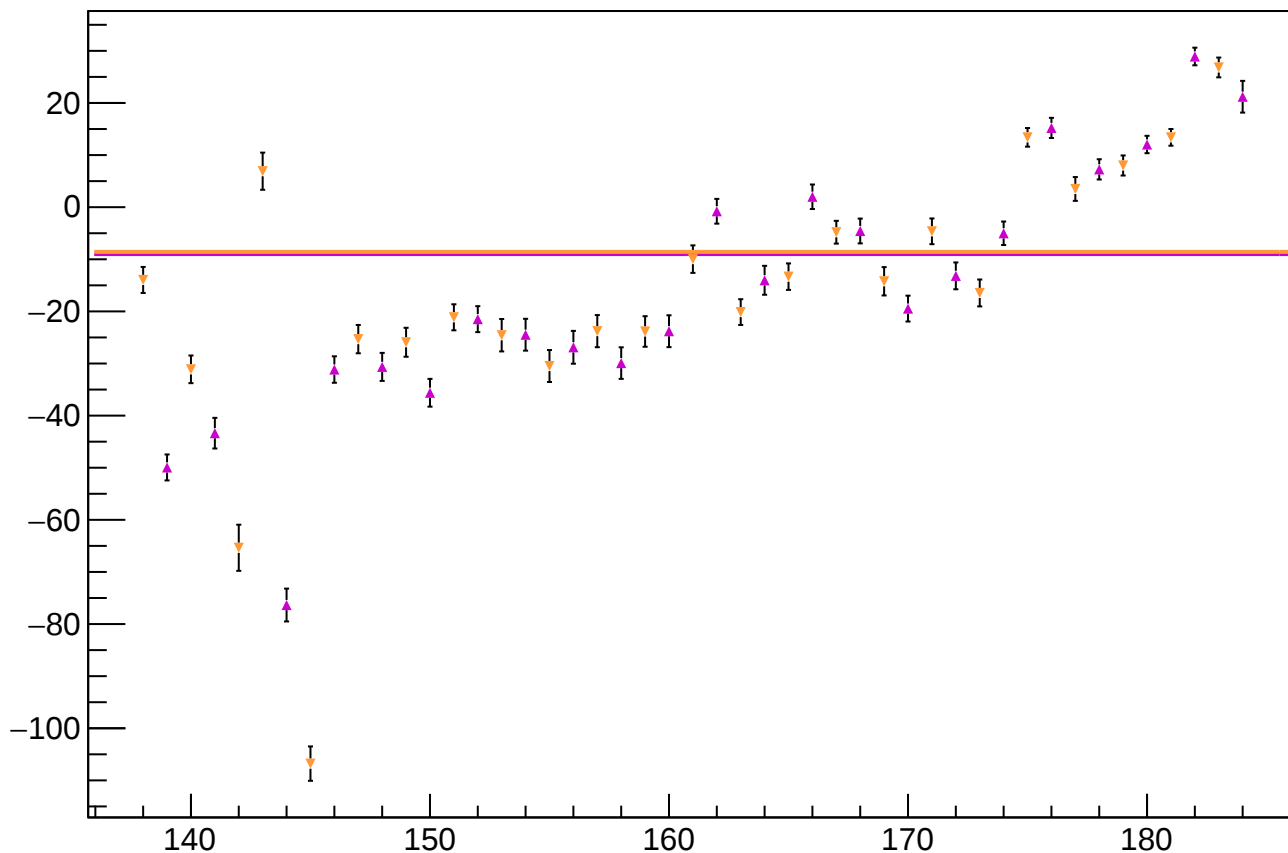
Left In:  $0.159 \pm 0.004$   $\chi^2/\text{NDF}$ : 2020.5/22

+ sign  $0.121 \pm 0.004$   $\chi^2/\text{NDF}$ : 2784.6/40

All:  $0.127 \pm 0.003$   $\chi^2/\text{NDF}$ : 6641.6/81

- sign  $0.134 \pm 0.004$   $\chi^2/\text{NDF}$ : 3852.2/40

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -8.572+/-0.504  $\chi^2/\text{NDF}$ : 2212.0/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

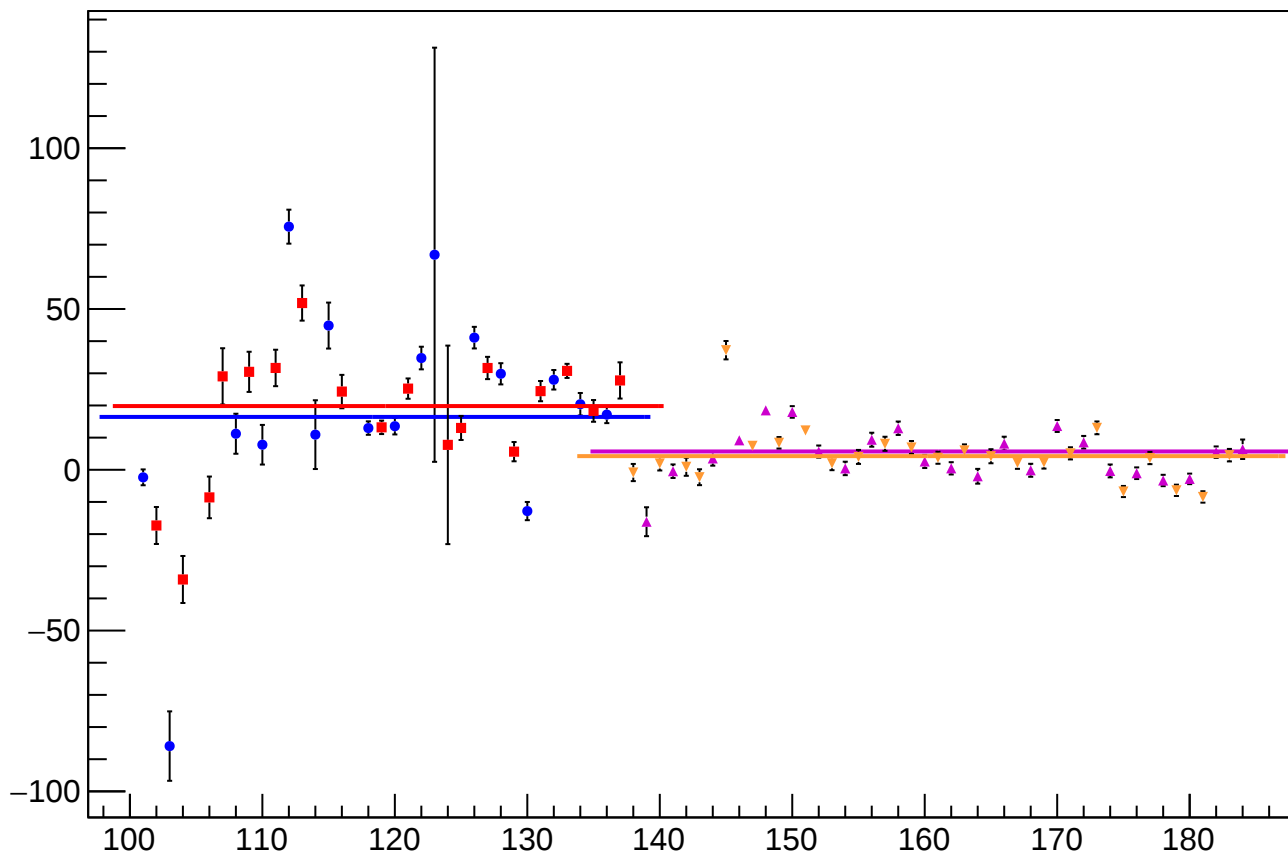
Left In: -8.995+/-0.505  $\chi^2/\text{NDF}$ : 2308.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.783+/-0.357  $\chi^2/\text{NDF}$ : 4520.6/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 16.439+/-0.849  $\chi^2/\text{NDF}$ : 516.9/16

Left Out: 4.246+/-0.395  $\chi^2/\text{NDF}$ : 346.1/23

Right Out: 19.813+/-0.899  $\chi^2/\text{NDF}$ : 238.5/17

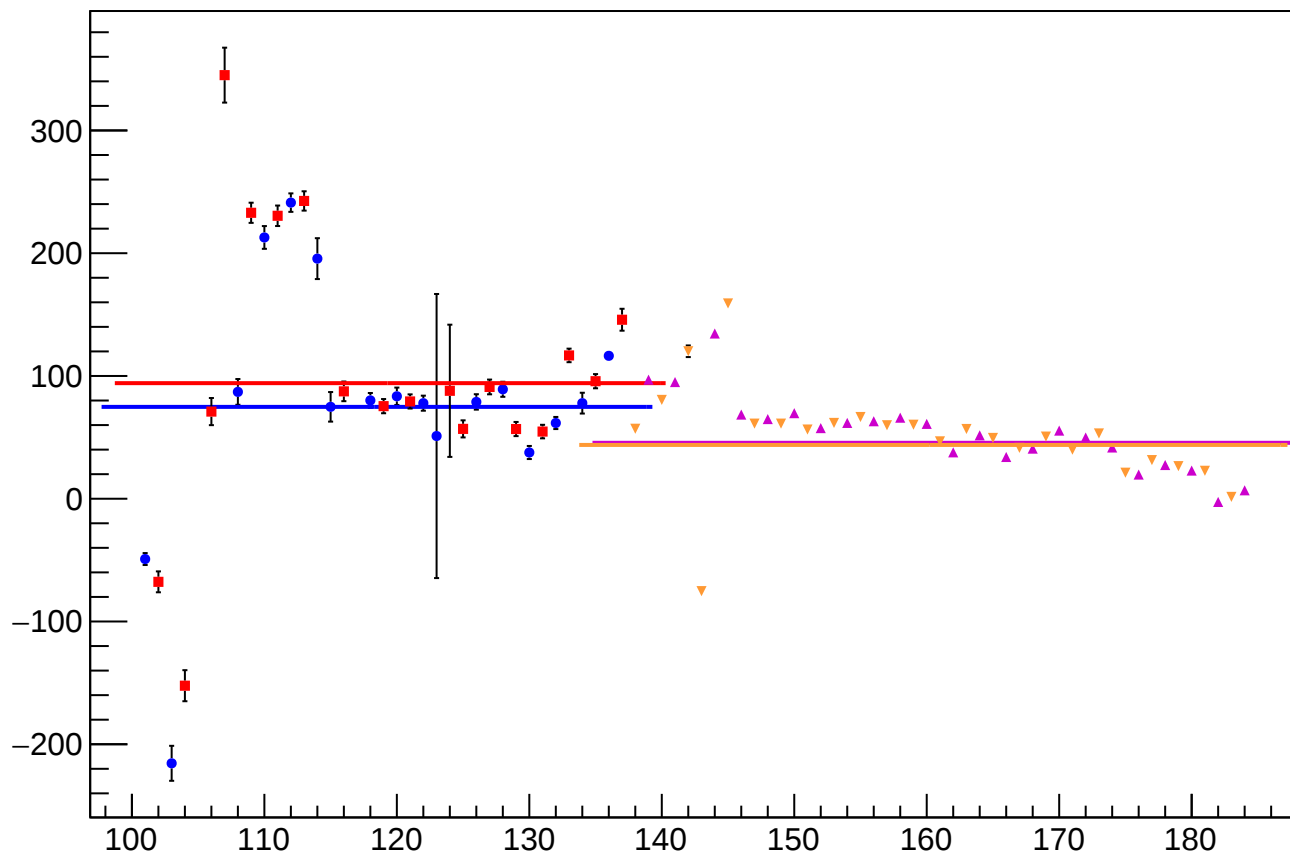
Left In: 5.699+/-0.403  $\chi^2/\text{NDF}$ : 329.1/22

+ sign 6.413+/-0.358  $\chi^2/\text{NDF}$ : 1032.8/40

All: 7.215+/-0.256  $\chi^2/\text{NDF}$ : 1815.9/81

- sign 8.062+/-0.368  $\chi^2/\text{NDF}$ : 772.7/40

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In:  $74.824 \pm 1.639$   $\chi^2/\text{NDF}$ : 1996.8/16

Left Out:  $43.827 \pm 0.502$   $\chi^2/\text{NDF}$ : 3806.0/23

Right Out:  $94.153 \pm 1.720$   $\chi^2/\text{NDF}$ : 1969.2/17

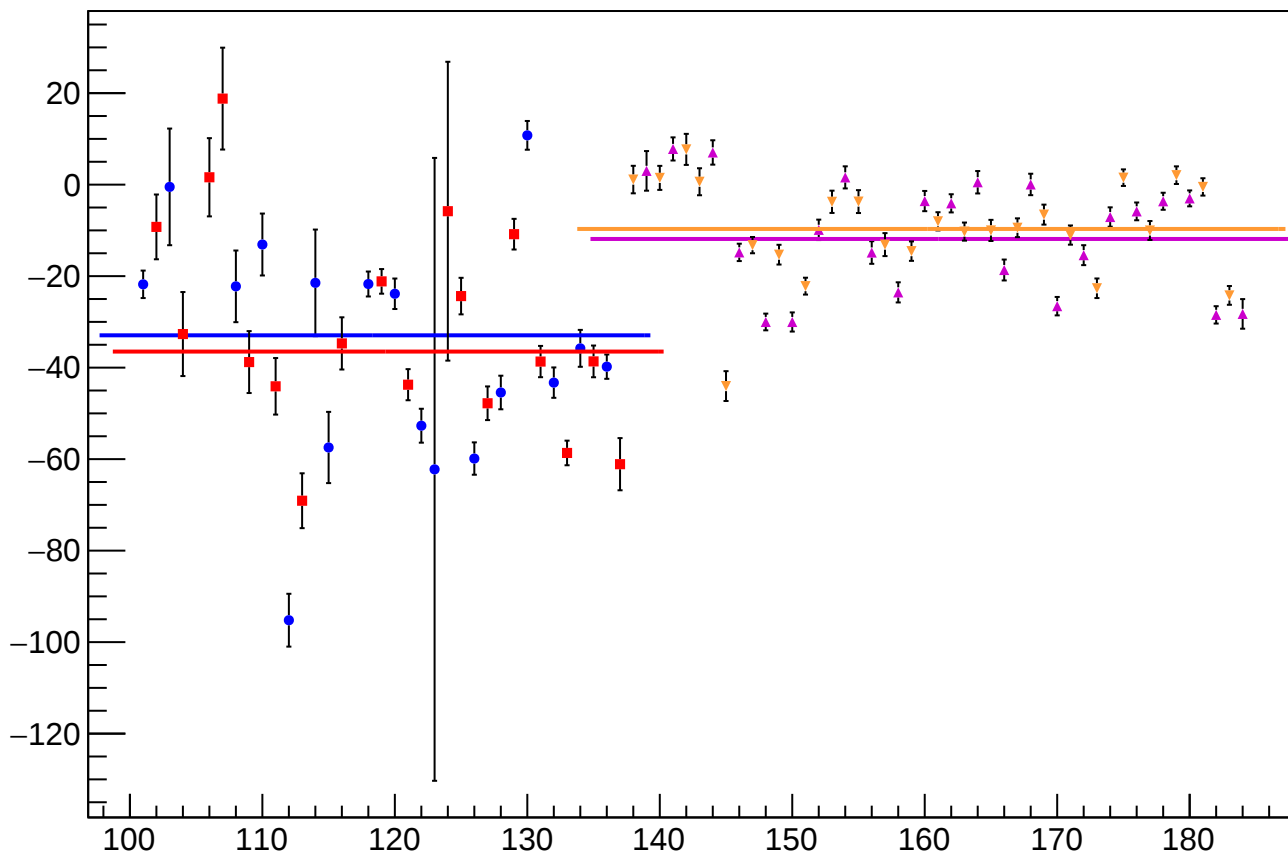
Left In:  $45.559 \pm 0.502$   $\chi^2/\text{NDF}$ : 3152.4/22

+ sign  $46.488 \pm 0.480$   $\chi^2/\text{NDF}$ : 6129.9/40

All:  $47.927 \pm 0.340$   $\chi^2/\text{NDF}$ : 12005.0/81

- sign  $49.380 \pm 0.482$   $\chi^2/\text{NDF}$ : 5857.0/40

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-9.684 \pm 0.447$   $\chi^2/\text{NDF}$ : 444.9/23

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

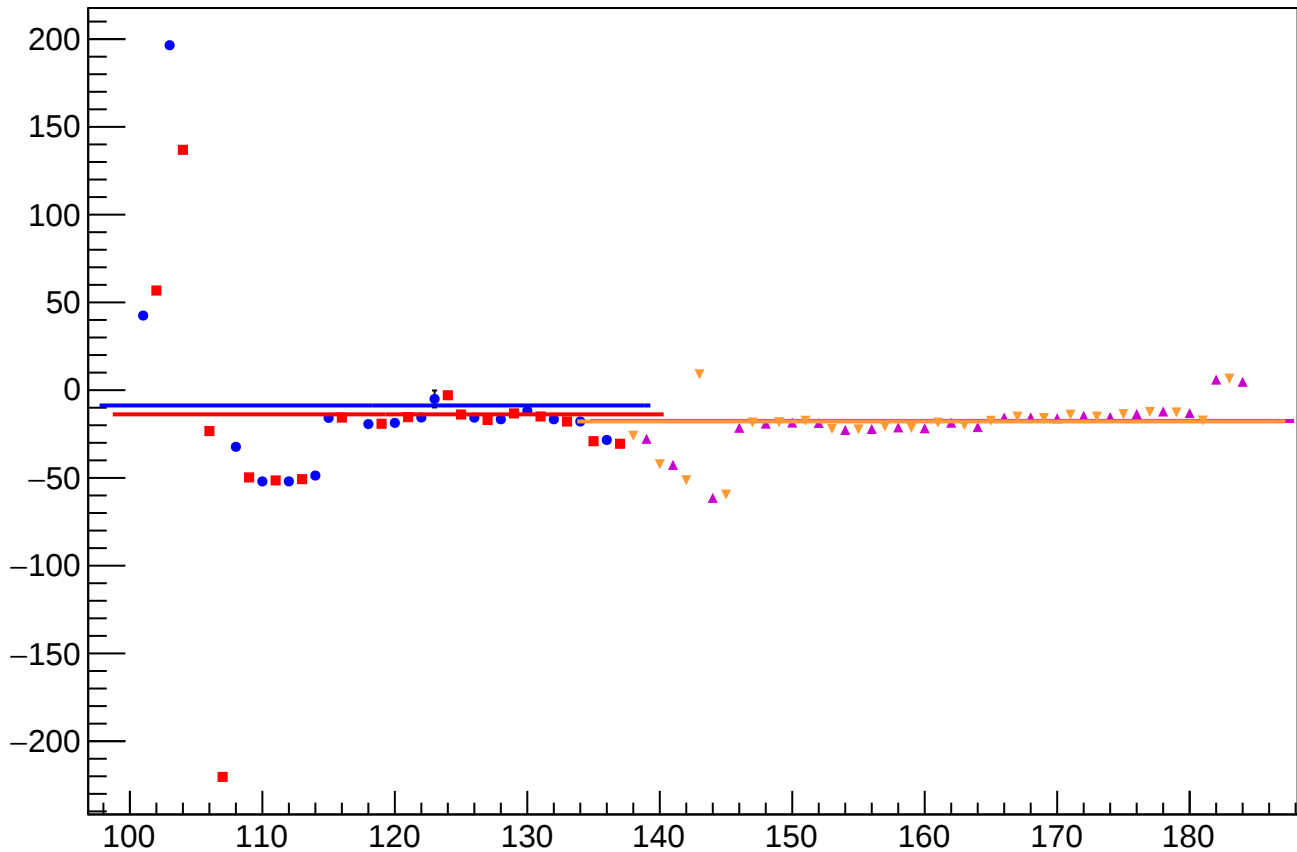
Left In:  $-11.875 \pm 0.455$   $\chi^2/\text{NDF}$ : 668.4/22

+ sign  $-13.740 \pm 0.406$   $\chi^2/\text{NDF}$ : 1406.8/40

All:  $-14.801 \pm 0.291$   $\chi^2/\text{NDF}$ : 2862.8/81

- sign  $-15.912 \pm 0.416$   $\chi^2/\text{NDF}$ : 1442.1/40

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}$ : 575838.7/16

Left Out:  $-17.835 \pm 0.021$   $\chi^2/\text{NDF}$ : 295697.2/23

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}$ : 549380.2/17

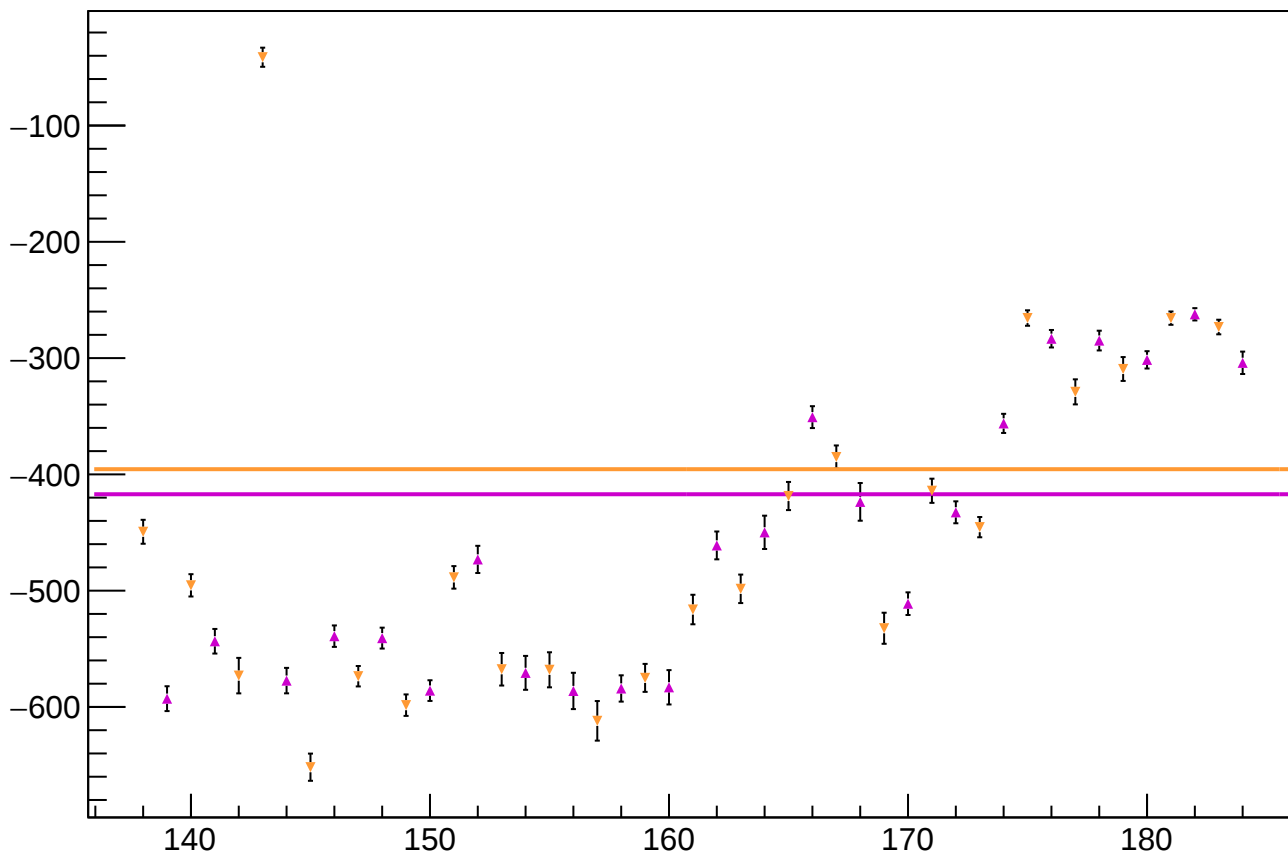
Left In:  $-17.552 \pm 0.021$   $\chi^2/\text{NDF}$ : 261900.3/22

+ sign  $-16.840 \pm 0.019$   $\chi^2/\text{NDF}$ : 892878.2/40

All:  $-17.009 \pm 0.014$   $\chi^2/\text{NDF}$ : 1707613.9/81

- sign  $-17.180 \pm 0.020$   $\chi^2/\text{NDF}$ : 814584.2/40

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -395.534+/-1.976  $\chi^2/\text{NDF}$ : 5946.7/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

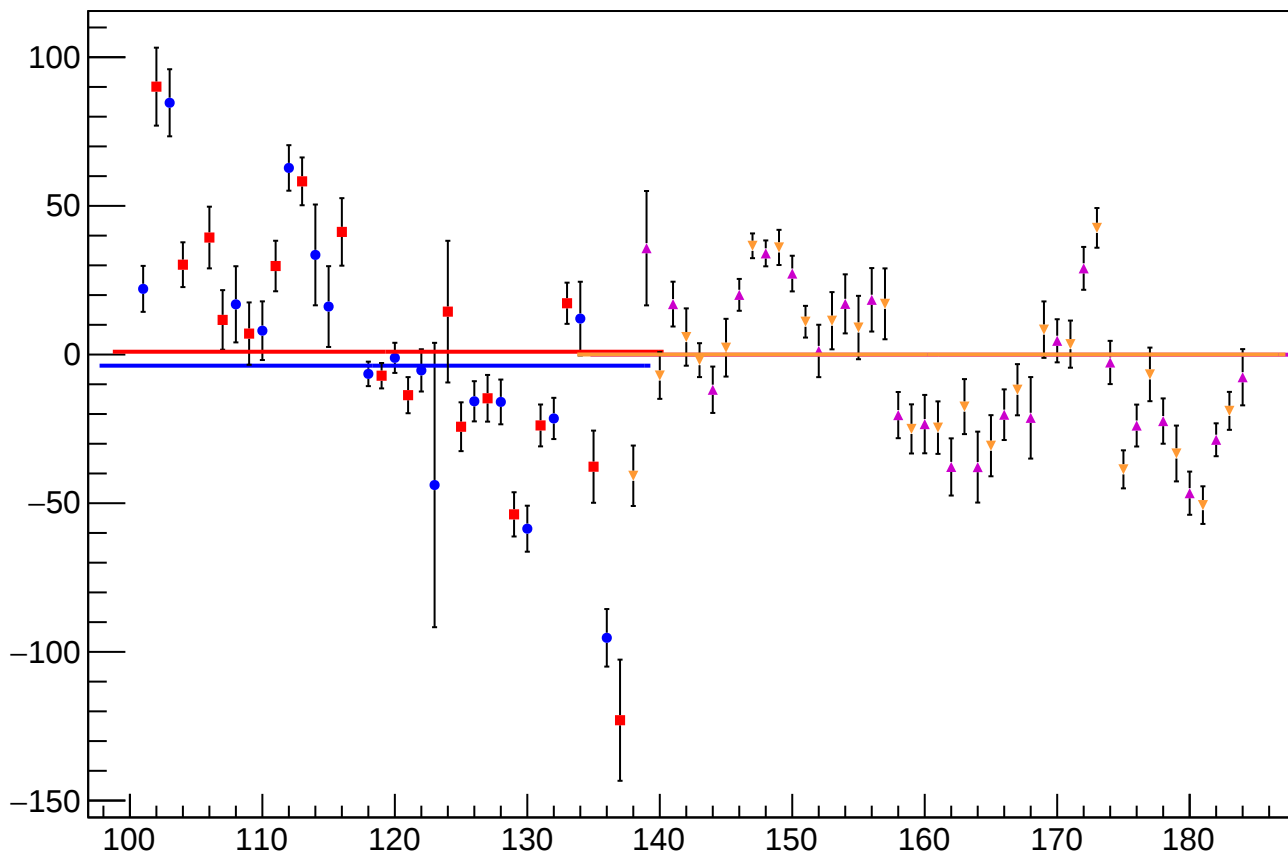
Left In: -417.080+/-1.997  $\chi^2/\text{NDF}$ : 3958.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -406.194+/-1.405  $\chi^2/\text{NDF}$ : 9964.1/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.743 \pm 1.892$   $\chi^2/\text{NDF}$ : 314.1/16

Left Out:  $0.019 \pm 1.516$   $\chi^2/\text{NDF}$ : 335.6/23

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

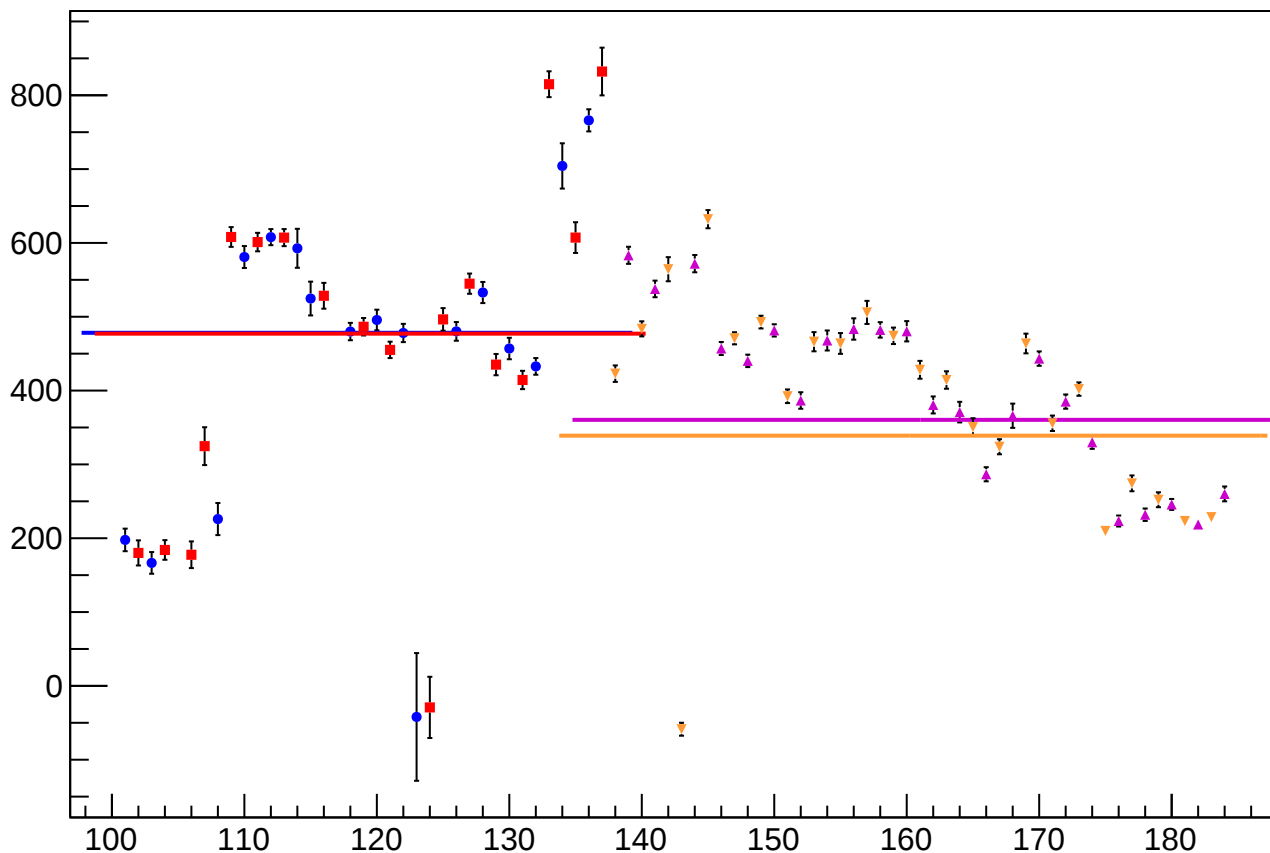
Left In:  $-0.052 \pm 1.571$   $\chi^2/\text{NDF}$ : 264.1/22

+ sign  $-1.452 \pm 1.183$   $\chi^2/\text{NDF}$ : 652.1/40

All:  $-0.575 \pm 0.848$   $\chi^2/\text{NDF}$ : 1211.2/81

- sign  $0.350 \pm 1.215$   $\chi^2/\text{NDF}$ : 558.0/40

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 338.942 $\pm$ 1.983  $\chi^2$ /NDF: 5501.2/23

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

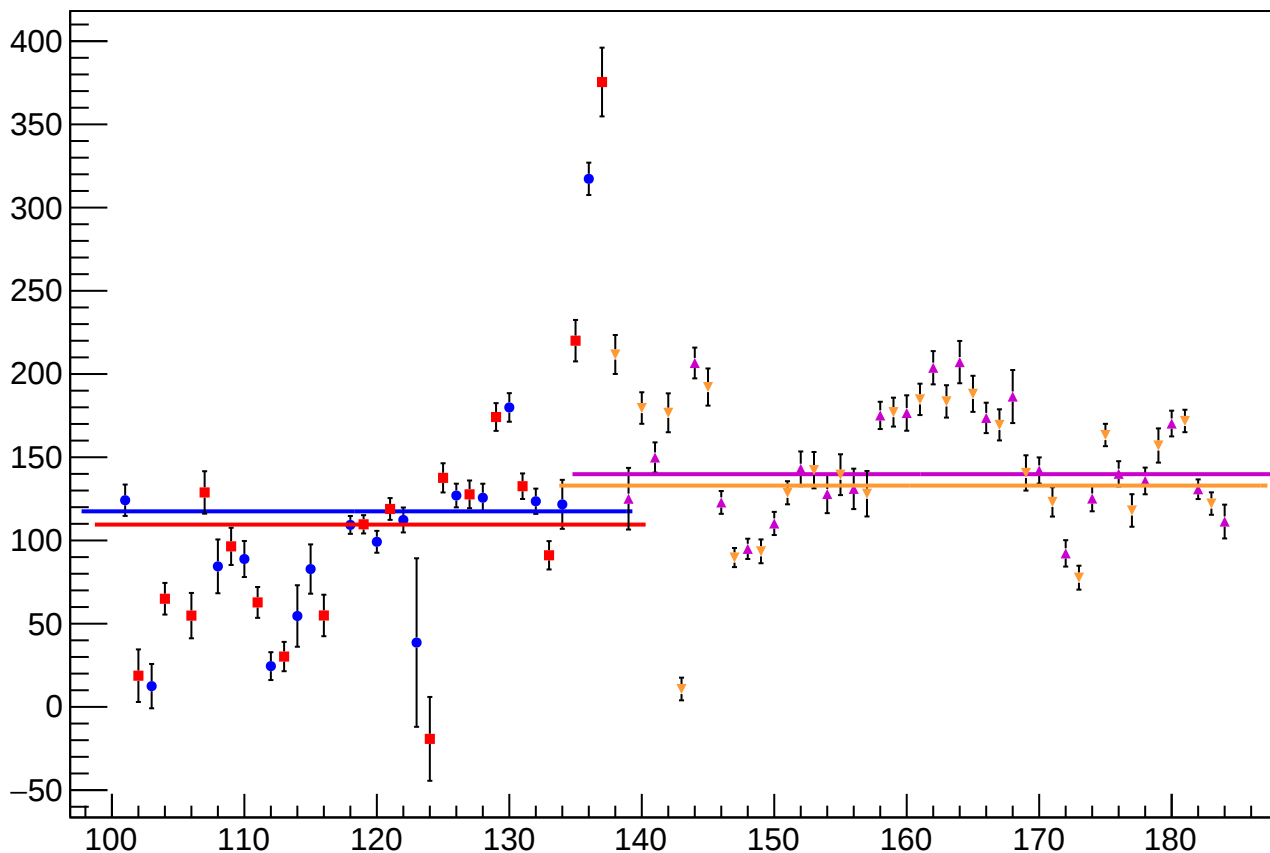
Left In: 360.355 $\pm$ 1.996  $\chi^2$ /NDF: 3449.9/22

+ sign 370.861 $\pm$ 1.741  $\chi^2$ /NDF: 8259.7/40

All: 379.690 $\pm$ 1.230  $\chi^2$ /NDF: 14761.6/81

- sign 388.491 $\pm$ 1.739  $\chi^2$ /NDF: 6450.6/40

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 117.502 $\pm$ 2.198  $\chi^2$ /NDF: 705.9/16

Left Out: 132.977 $\pm$ 1.745  $\chi^2$ /NDF: 771.2/23

Right Out: 109.536 $\pm$ 2.208  $\chi^2$ /NDF: 562.2/17

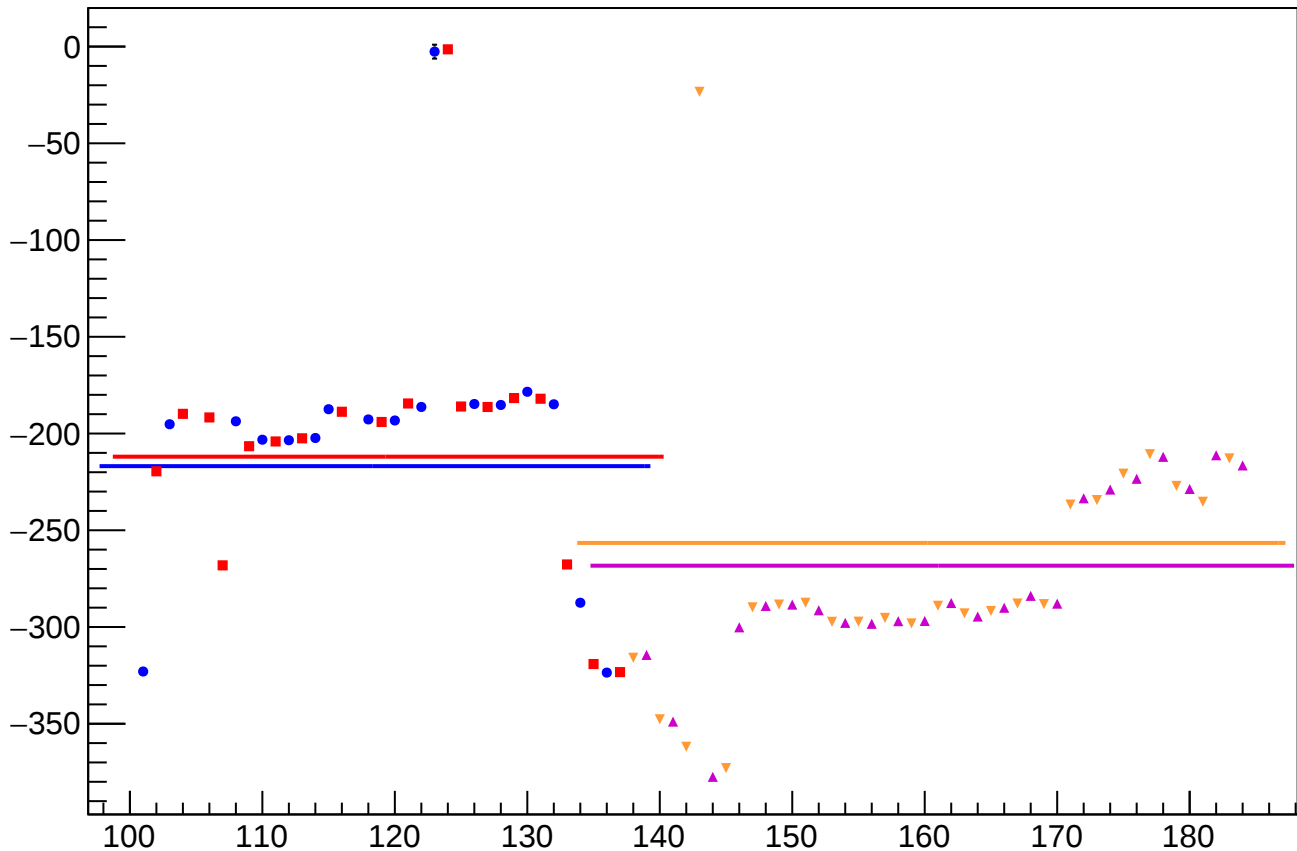
Left In: 139.828 $\pm$ 1.790  $\chi^2$ /NDF: 321.7/22

+ sign 126.995 $\pm$ 1.366  $\chi^2$ /NDF: 1507.6/40

All: 127.400 $\pm$ 0.975  $\chi^2$ /NDF: 2505.2/81

- sign 127.820 $\pm$ 1.390  $\chi^2$ /NDF: 997.4/40

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}: 146927.1/16$

Left Out:  $-256.537 \pm 0.083$   $\chi^2/\text{NDF}: 719911.3/23$

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}: 112091.8/17$

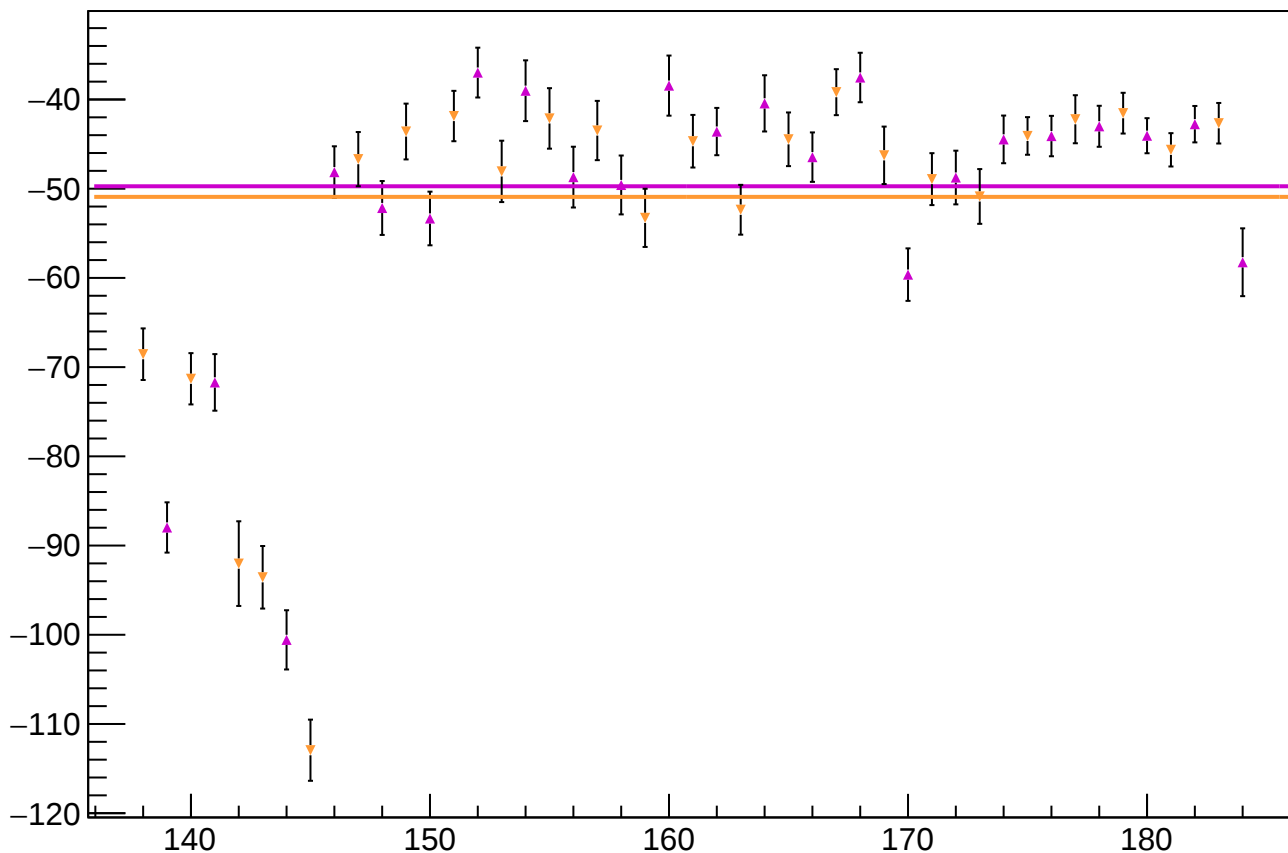
Left In:  $-268.305 \pm 0.083$   $\chi^2/\text{NDF}: 264853.3/22$

+ sign  $-245.720 \pm 0.071$   $\chi^2/\text{NDF}: 928896.6/40$

All:  $-248.907 \pm 0.050$   $\chi^2/\text{NDF}: 1442091.3/81$

- sign  $-252.031 \pm 0.070$   $\chi^2/\text{NDF}: 509197.5/40$

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -50.916 $\pm$ 0.577  $\chi^2$ /NDF: 760.1/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

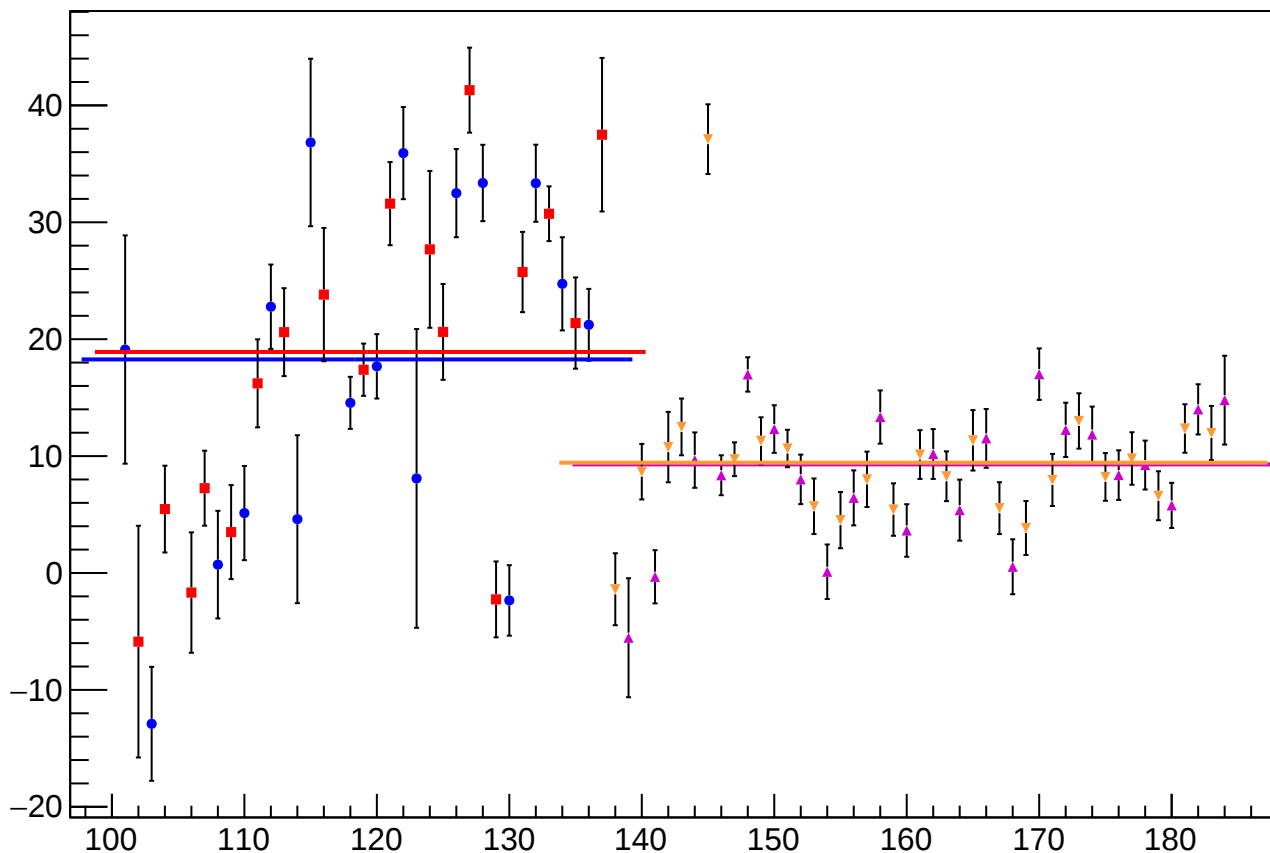
Left In: -49.728 $\pm$ 0.581  $\chi^2$ /NDF: 601.0/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -50.327 $\pm$ 0.410  $\chi^2$ /NDF: 1363.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In:  $18.269 \pm 0.907$   $\chi^2/\text{NDF}$ : 208.3/16

Left Out:  $9.436 \pm 0.448$   $\chi^2/\text{NDF}$ : 130.1/23

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

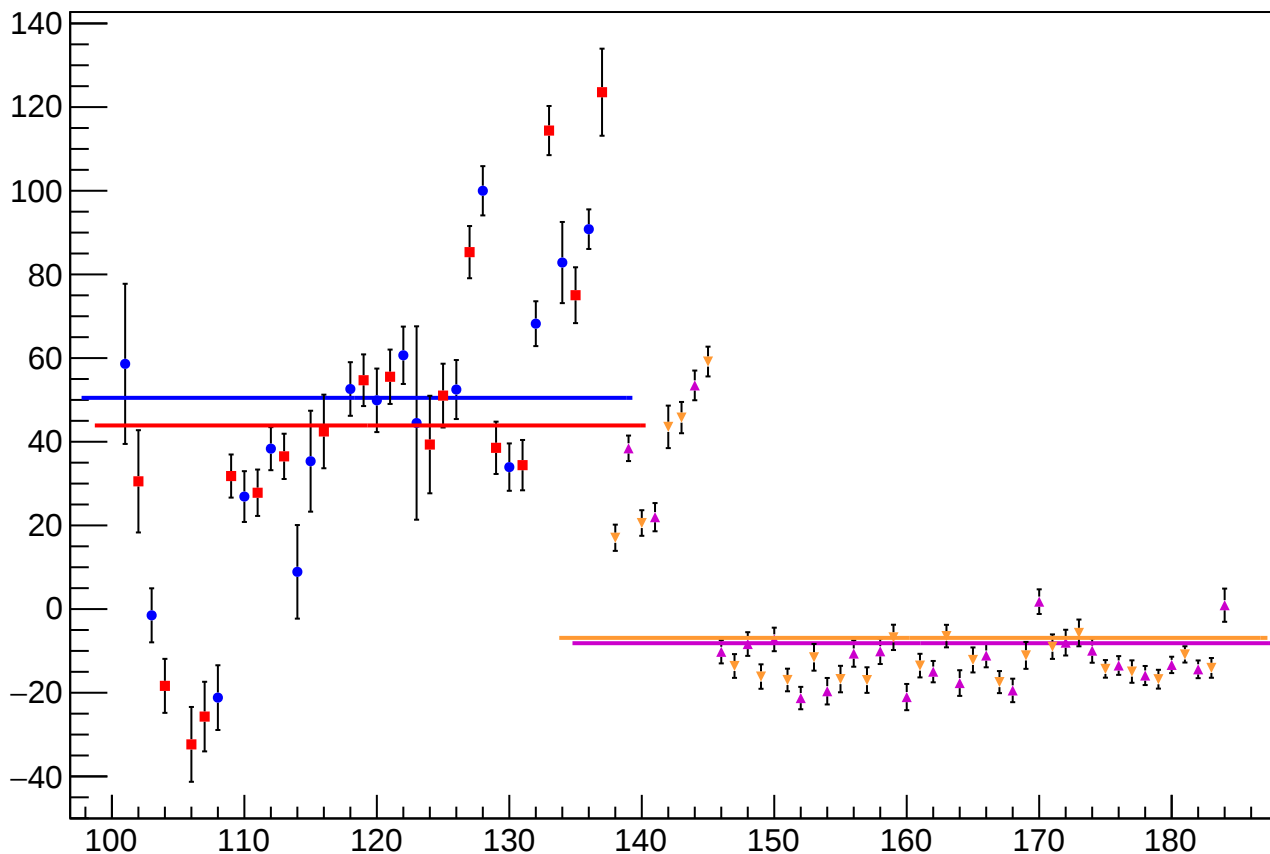
Left In:  $9.289 \pm 0.461$   $\chi^2/\text{NDF}$ : 125.6/22

+ sign  $11.171 \pm 0.402$   $\chi^2/\text{NDF}$ : 414.6/40

All:  $11.293 \pm 0.286$   $\chi^2/\text{NDF}$ : 835.1/81

- sign  $11.417 \pm 0.406$   $\chi^2/\text{NDF}$ : 420.3/40

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: 50.497 $\pm$ 1.671  $\chi^2$ /NDF: 363.2/16

Left Out: -6.884 $\pm$ 0.575  $\chi^2$ /NDF: 913.1/23

Right Out: 43.895 $\pm$ 1.604  $\chi^2$ /NDF: 531.7/17

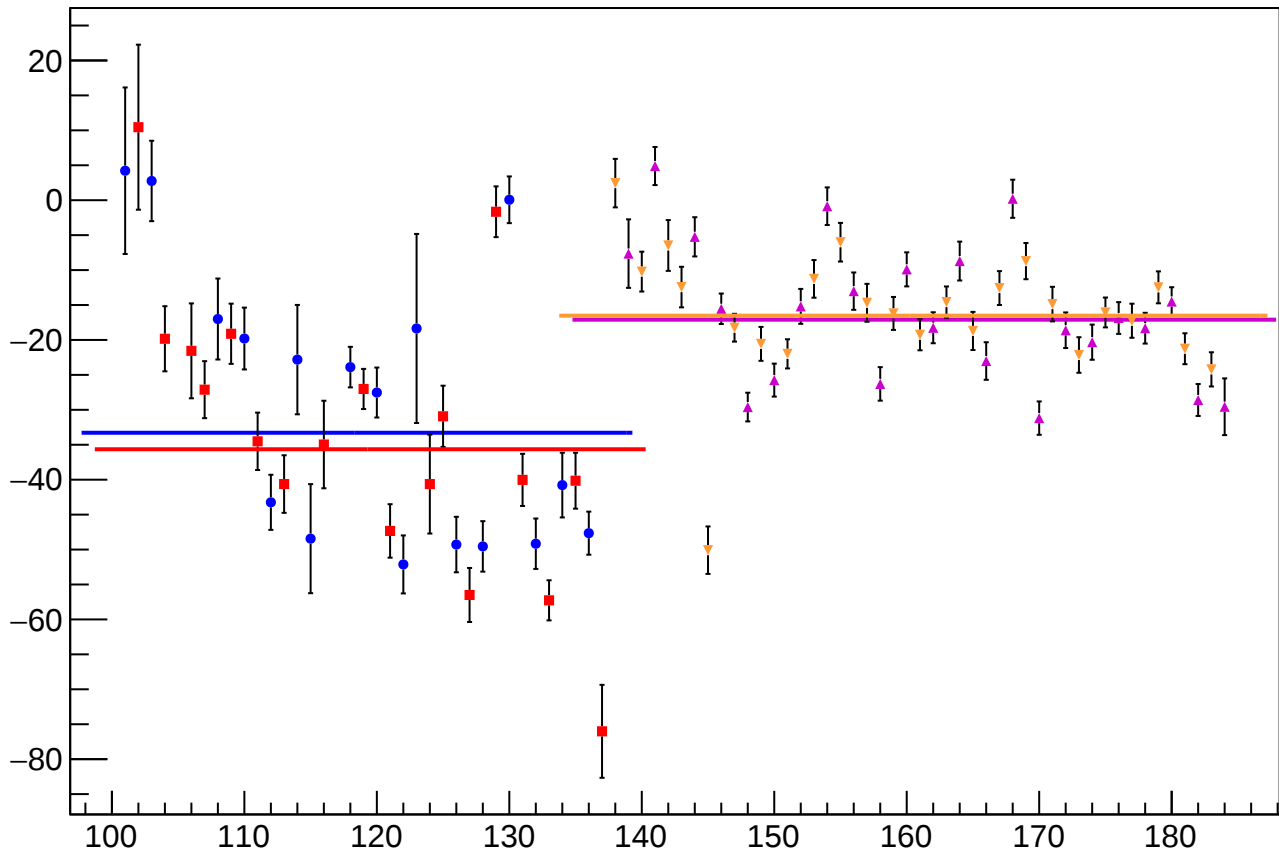
Left In: -8.158 $\pm$ 0.578  $\chi^2$ /NDF: 753.9/22

+ sign -0.812 $\pm$ 0.544  $\chi^2$ /NDF: 2330.9/40

All: -1.495 $\pm$ 0.384  $\chi^2$ /NDF: 4552.3/81

- sign -2.179 $\pm$ 0.543  $\chi^2$ /NDF: 2218.2/40

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-16.524 \pm 0.510$   $\chi^2/\text{NDF}$ : 208.9/23

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

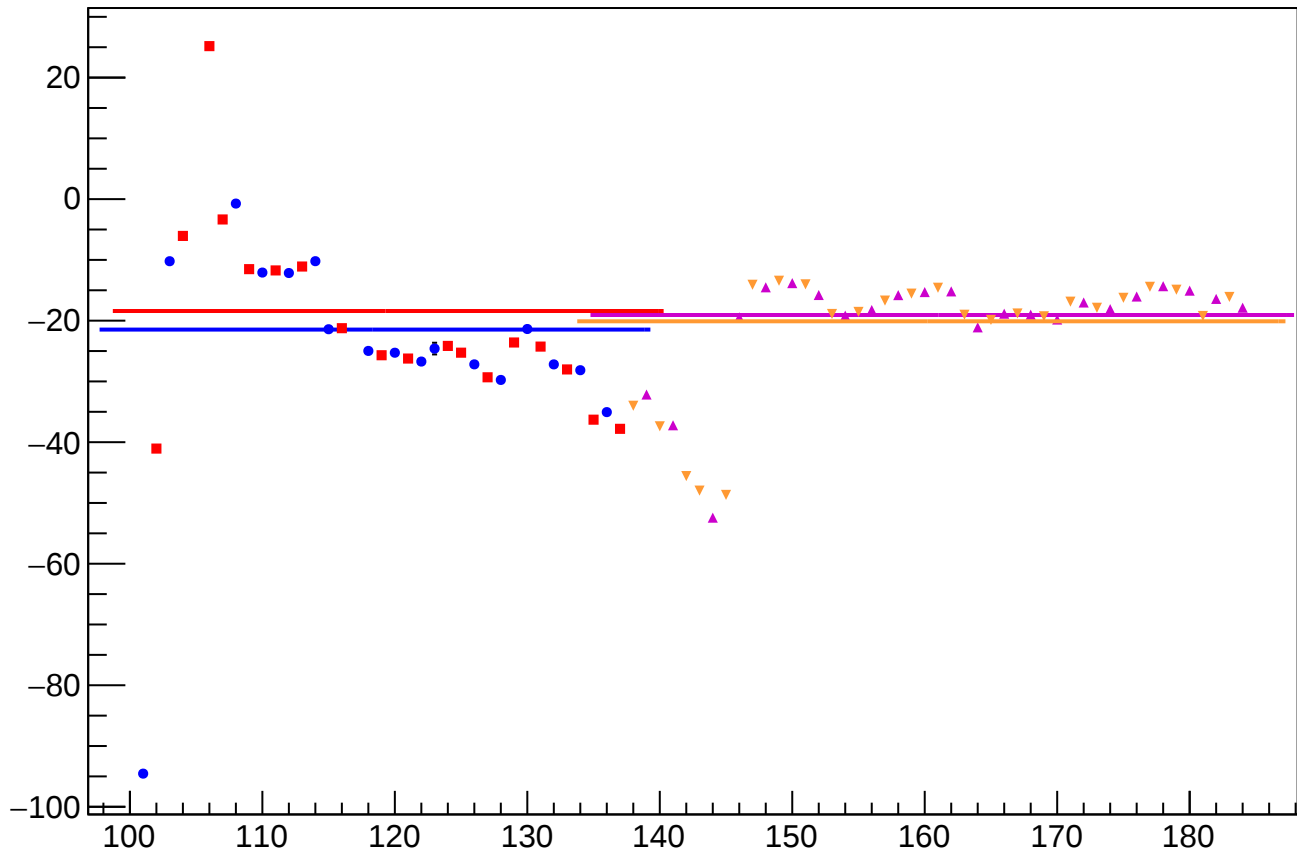
Left In:  $-17.100 \pm 0.520$   $\chi^2/\text{NDF}$ : 328.1/22

+ sign  $-19.797 \pm 0.457$   $\chi^2/\text{NDF}$ : 712.8/40

All:  $-20.443 \pm 0.325$   $\chi^2/\text{NDF}$ : 1603.1/81

- sign  $-21.099 \pm 0.461$   $\chi^2/\text{NDF}$ : 886.3/40

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In: -21.469±/-0.059  $\chi^2/\text{NDF}$ : 48979.5/16

Left Out: -20.105±/-0.024  $\chi^2/\text{NDF}$ : 144628.6/23

Right Out: -18.411±/-0.057  $\chi^2/\text{NDF}$ : 77587.3/17

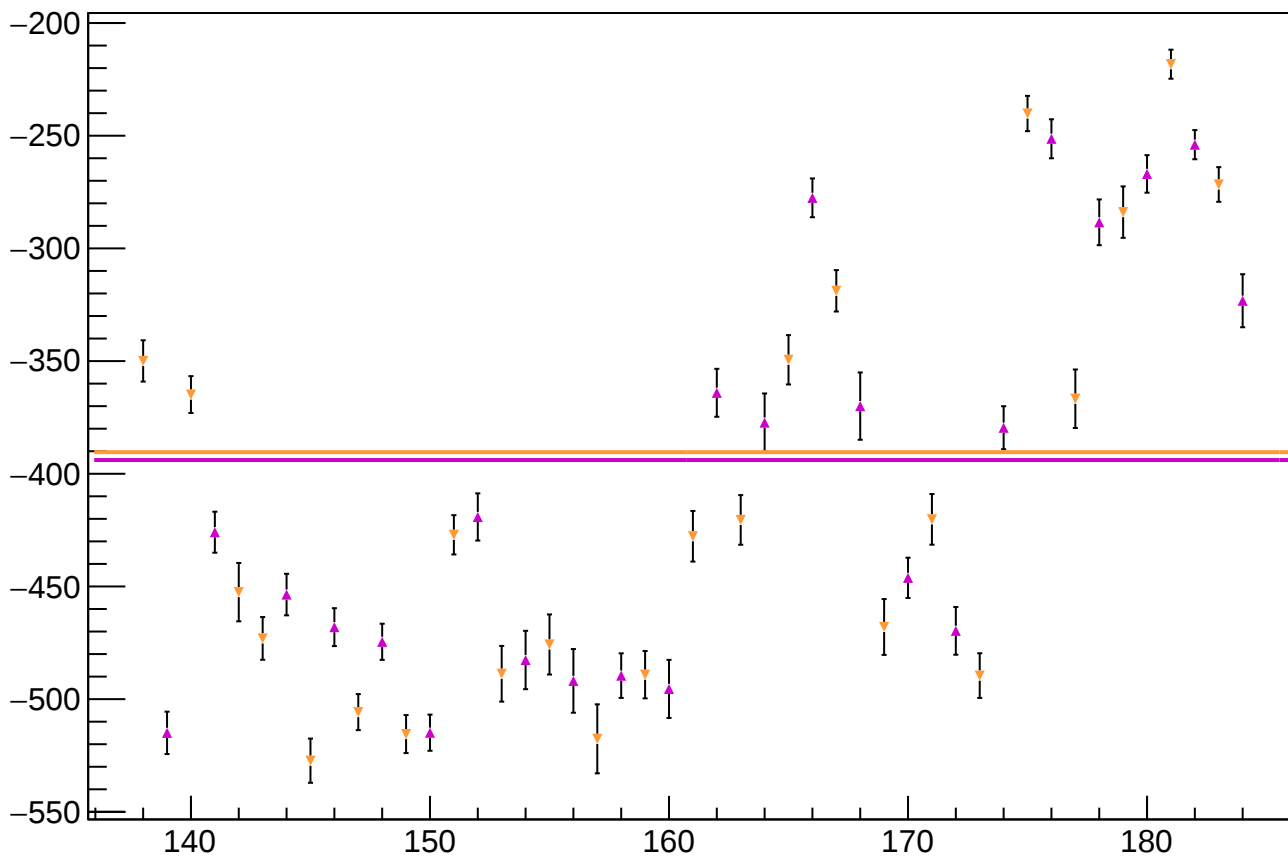
Left In: -19.068±/-0.024  $\chi^2/\text{NDF}$ : 92702.3/22

+ sign -20.293±/-0.022  $\chi^2/\text{NDF}$ : 194072.7/40

All: -19.633±/-0.015  $\chi^2/\text{NDF}$ : 366305.3/81

- sign -18.973±/-0.022  $\chi^2/\text{NDF}$ : 170401.9/40

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -390.416+/-1.982  $\chi^2/\text{NDF}$ : 2680.5/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

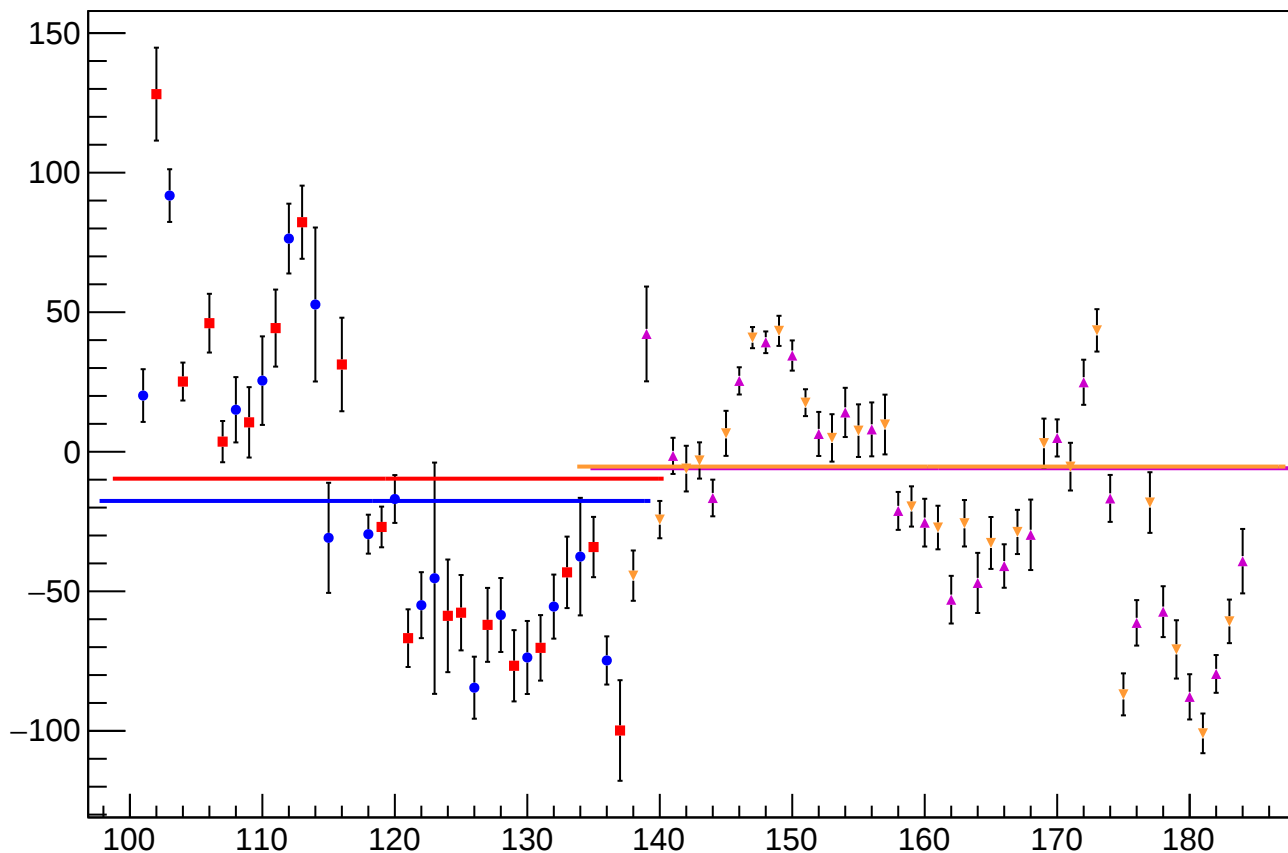
Left In: -393.904+/-1.998  $\chi^2/\text{NDF}$ : 2280.8/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -392.146+/-1.407  $\chi^2/\text{NDF}$ : 4962.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-17.619 \pm 2.786$   $\chi^2/\text{NDF}$ : 362.0/16

Left Out:  $-5.306 \pm 1.470$   $\chi^2/\text{NDF}$ : 753.9/23

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

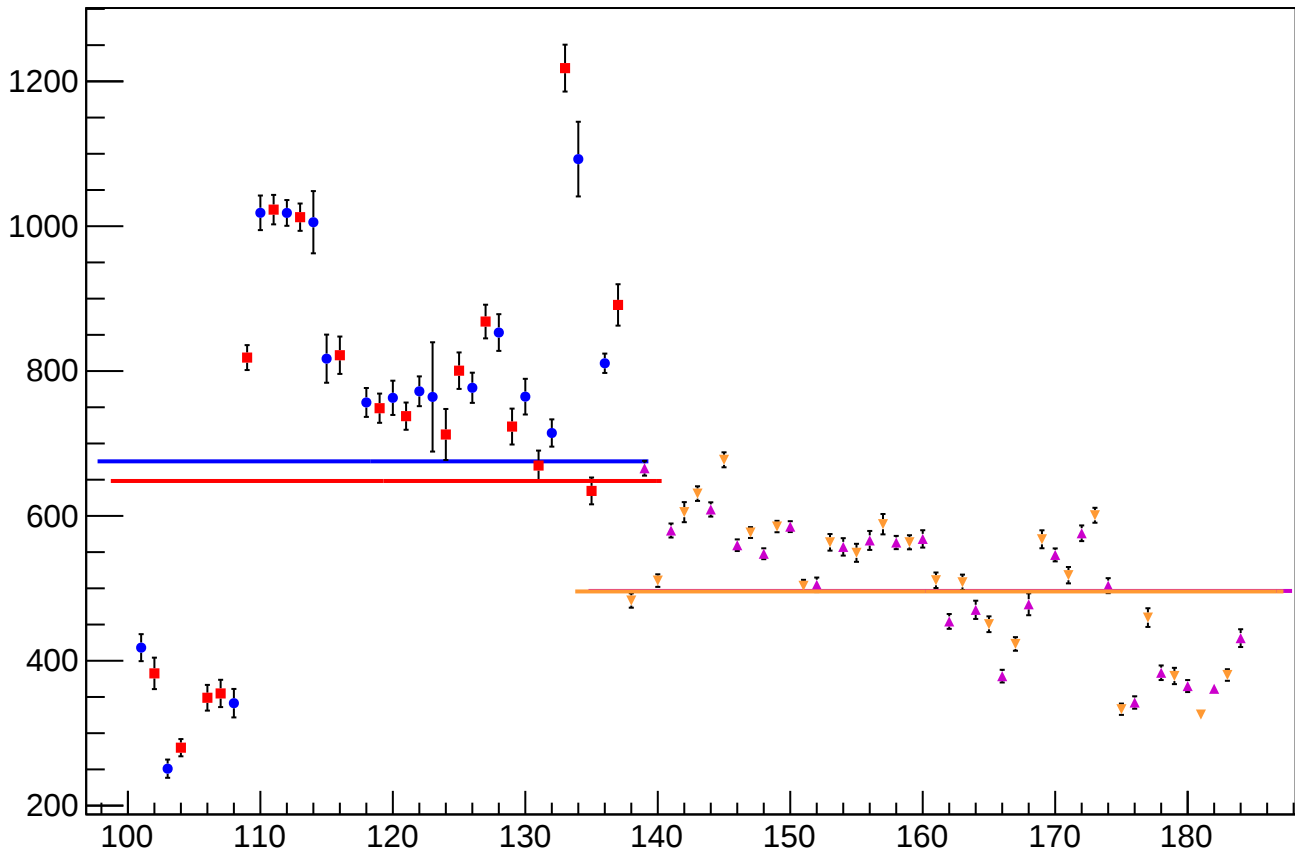
Left In:  $-5.906 \pm 1.513$   $\chi^2/\text{NDF}$ : 657.5/22

+ sign  $-7.987 \pm 1.300$   $\chi^2/\text{NDF}$ : 1131.2/40

All:  $-7.420 \pm 0.923$   $\chi^2/\text{NDF}$ : 2151.3/81

- sign  $-6.844 \pm 1.309$   $\chi^2/\text{NDF}$ : 1019.7/40

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In:  $675.339 \pm 5.046$   $\chi^2/\text{NDF}: 2582.7/16$

Left Out:  $495.700 \pm 1.980$   $\chi^2/\text{NDF}: 2571.3/23$

Right Out:  $648.229 \pm 4.775$   $\chi^2/\text{NDF}: 3059.0/17$

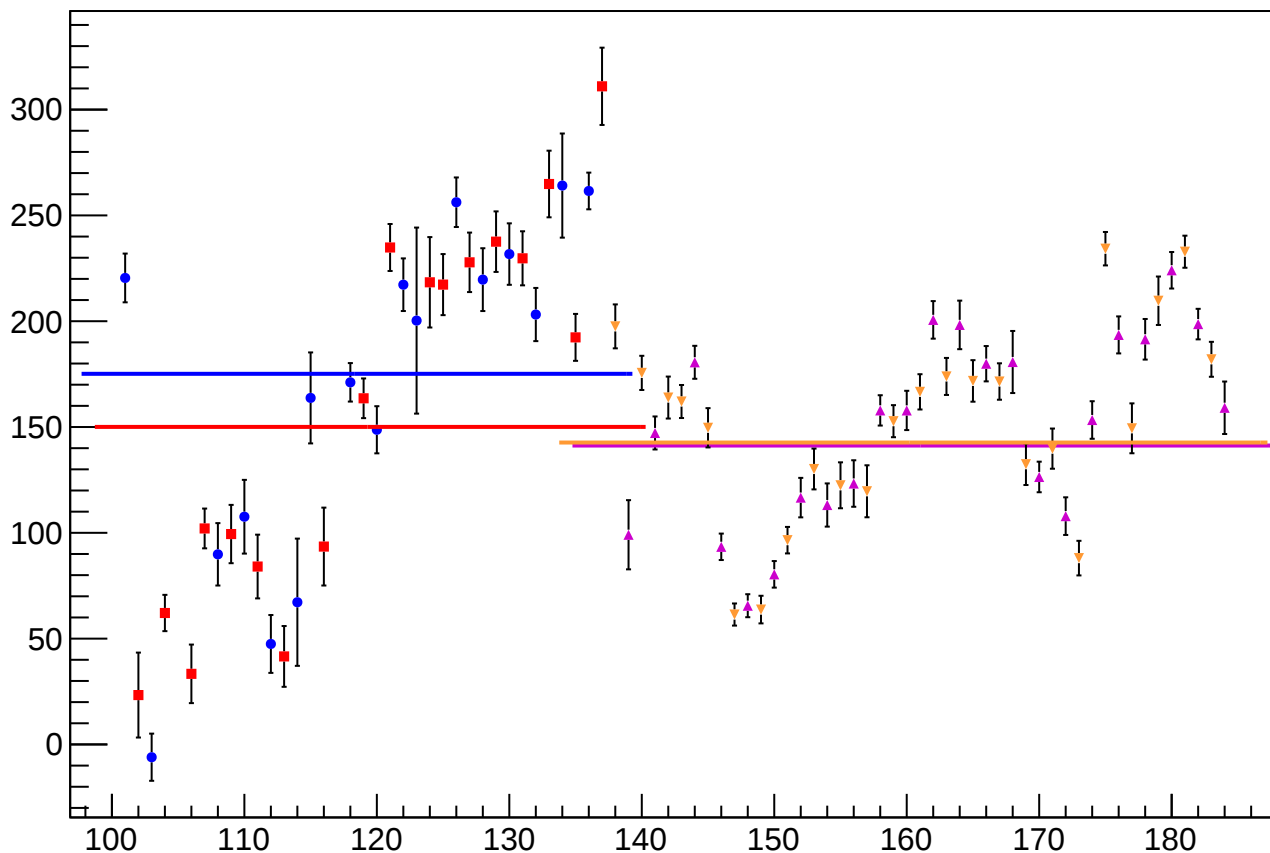
Left In:  $496.393 \pm 1.985$   $\chi^2/\text{NDF}: 2295.8/22$

+ sign  $519.664 \pm 1.843$   $\chi^2/\text{NDF}: 6252.4/40$

All:  $519.217 \pm 1.300$   $\chi^2/\text{NDF}: 12469.4/81$

- sign  $518.776 \pm 1.833$   $\chi^2/\text{NDF}: 6216.8/40$

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 175.142 $\pm$ 3.209  $\chi^2$ /NDF: 635.6/16

Left Out: 142.672 $\pm$ 1.709  $\chi^2$ /NDF: 928.9/23

Right Out: 150.054 $\pm$ 3.045  $\chi^2$ /NDF: 686.2/17

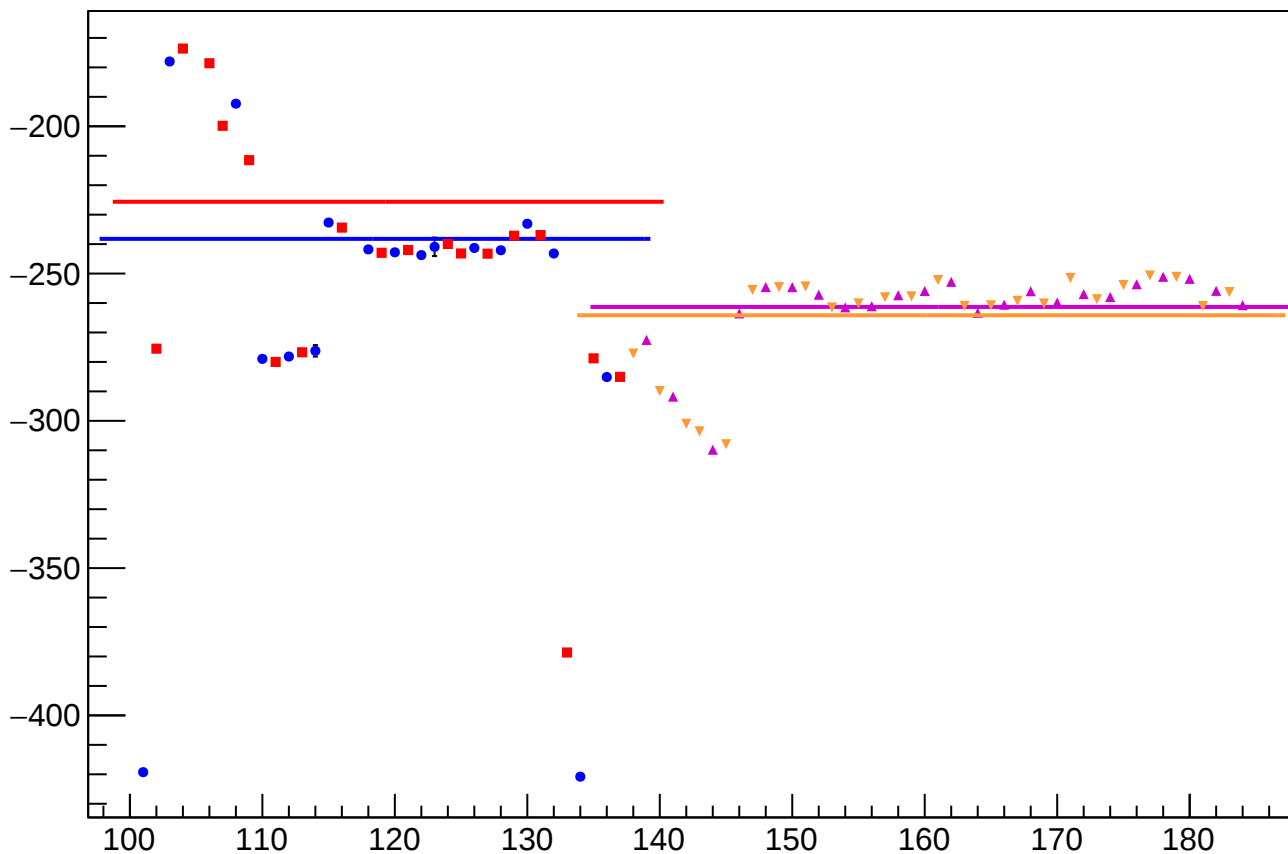
Left In: 141.248 $\pm$ 1.744  $\chi^2$ /NDF: 744.2/22

+ sign 149.846 $\pm$ 1.509  $\chi^2$ /NDF: 1644.3/40

All: 146.644 $\pm$ 1.068  $\chi^2$ /NDF: 3090.0/81

- sign 143.423 $\pm$ 1.513  $\chi^2$ /NDF: 1436.6/40

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In:  $-238.217 \pm 0.160$   $\chi^2/\text{NDF}: 167098.2/16$

Left Out:  $-264.161 \pm 0.082$   $\chi^2/\text{NDF}: 38717.8/23$

Right Out:  $-225.623 \pm 0.152$   $\chi^2/\text{NDF}: 95450.2/17$

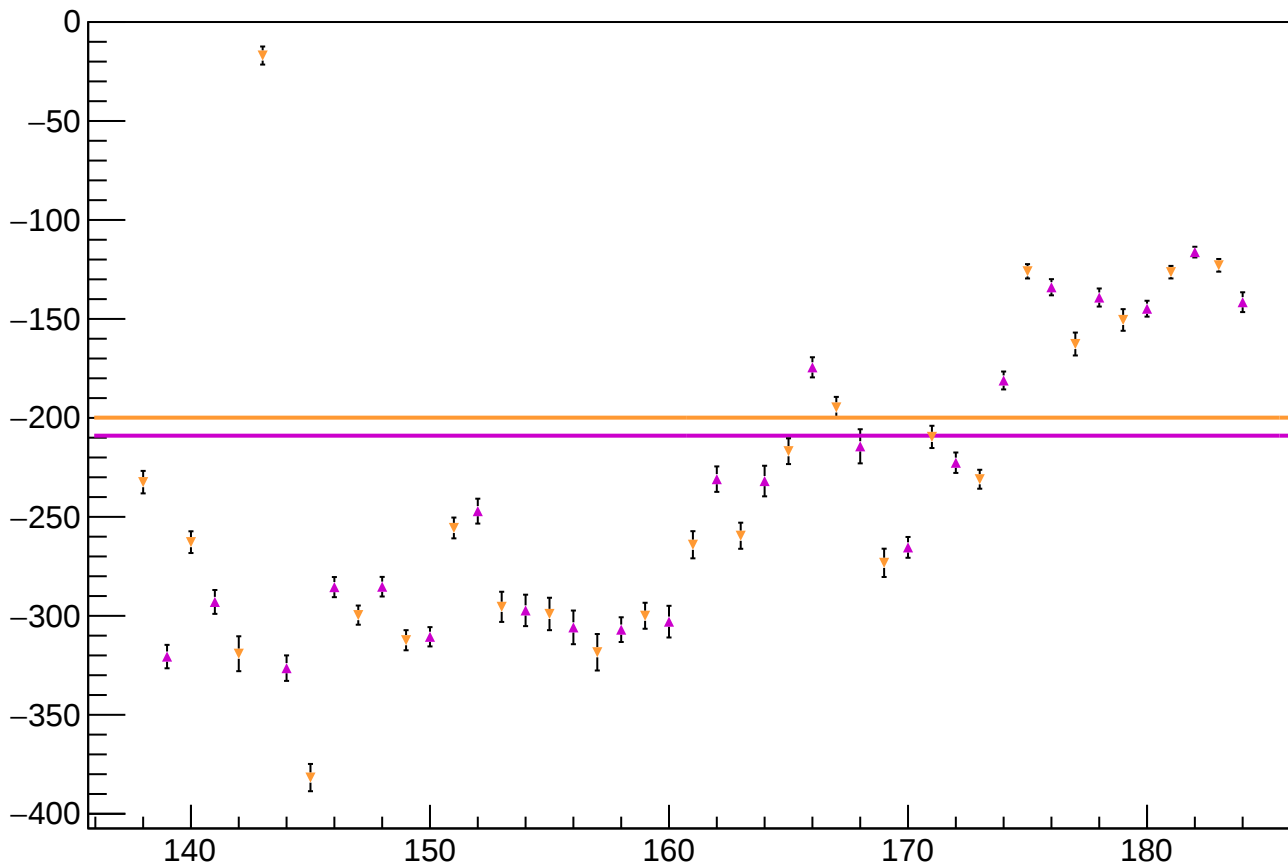
Left In:  $-261.325 \pm 0.082$   $\chi^2/\text{NDF}: 23449.2/22$

+ sign  $-258.765 \pm 0.073$   $\chi^2/\text{NDF}: 226624.6/40$

All:  $-255.988 \pm 0.051$   $\chi^2/\text{NDF}: 391377.9/81$

- sign  $-253.296 \pm 0.072$   $\chi^2/\text{NDF}: 161903.3/40$

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -199.873+/-1.075  $\chi^2/\text{NDF}$ : 6360.9/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

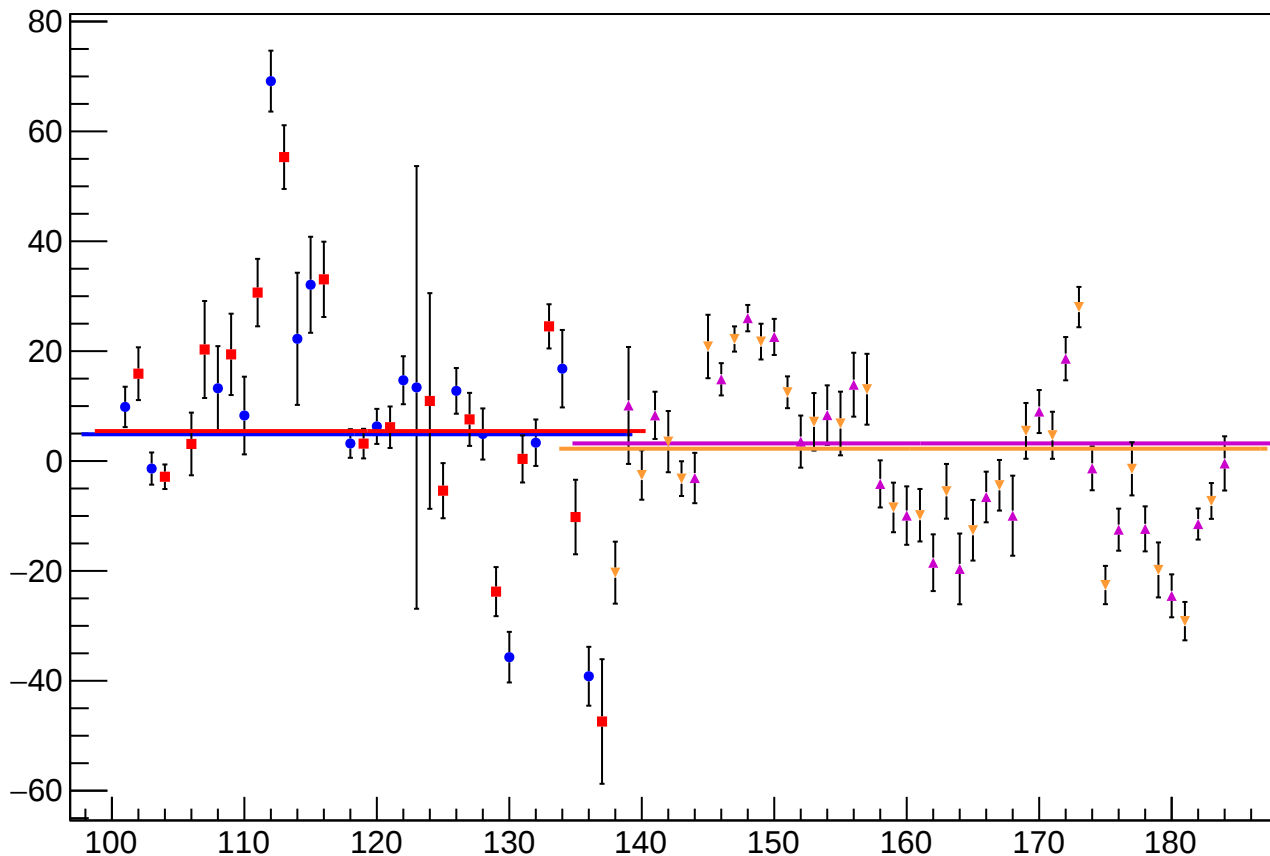
Left In: -208.981+/-1.078  $\chi^2/\text{NDF}$ : 4865.2/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -204.414+/-0.761  $\chi^2/\text{NDF}$ : 11261.9/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.870 \pm 1.091$   $\chi^2/\text{NDF}$ : 311.5/16

Left Out:  $2.243 \pm 0.828$   $\chi^2/\text{NDF}$ : 392.8/23

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}$ : 231.5/17

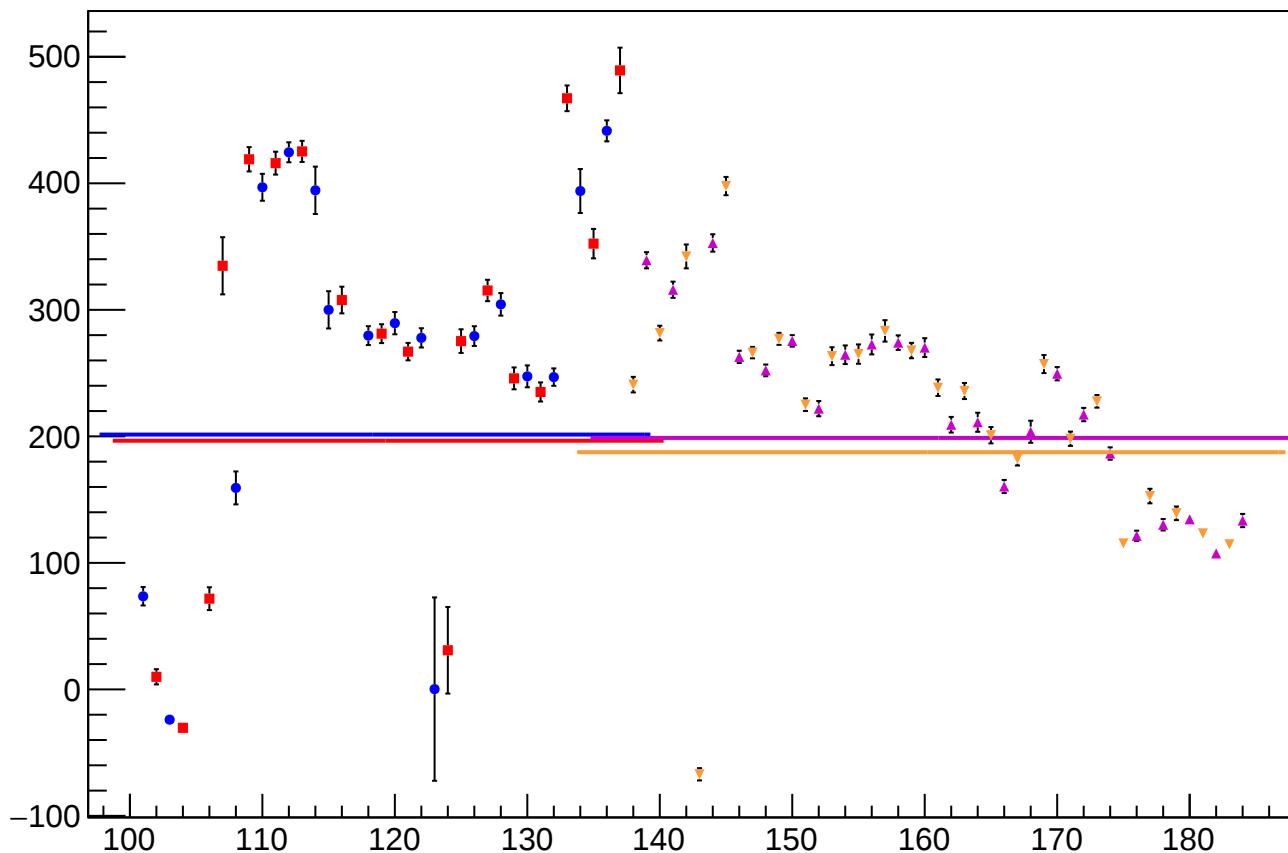
Left In:  $3.208 \pm 0.854$   $\chi^2/\text{NDF}$ : 323.8/22

+ sign  $3.204 \pm 0.660$   $\chi^2/\text{NDF}$ : 708.0/40

All:  $3.636 \pm 0.469$   $\chi^2/\text{NDF}$ : 1266.9/81

- sign  $4.080 \pm 0.668$   $\chi^2/\text{NDF}$ : 558.1/40

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 201.407 $\pm$ 1.974  $\chi^2/\text{NDF}$ : 6740.4/16

Left Out: 187.483 $\pm$ 1.079  $\chi^2/\text{NDF}$ : 7082.1/23

Right Out: 196.565 $\pm$ 1.931  $\chi^2/\text{NDF}$ : 8178.1/17

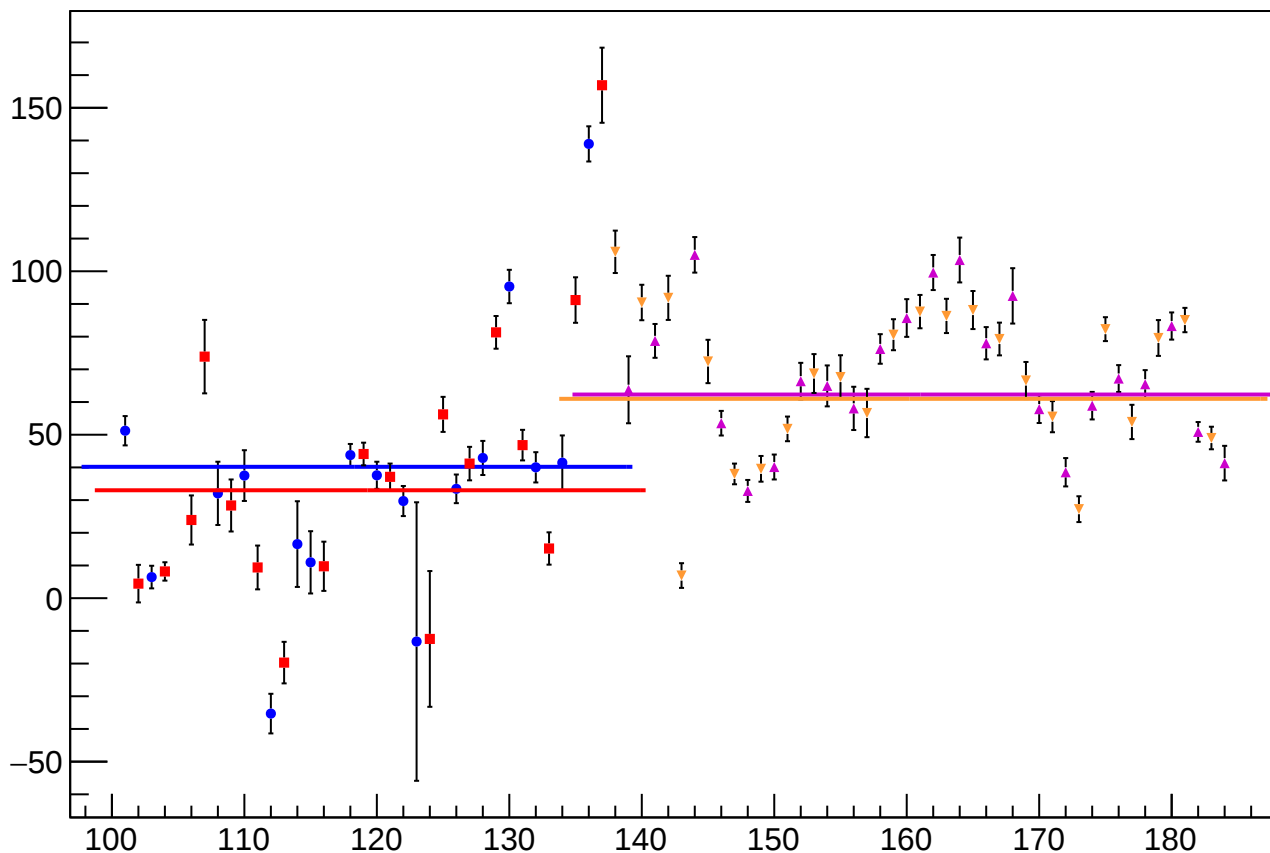
Left In: 198.762 $\pm$ 1.078  $\chi^2/\text{NDF}$ : 4590.0/22

+ sign 190.685 $\pm$ 0.947  $\chi^2/\text{NDF}$ : 13860.9/40

All: 194.484 $\pm$ 0.667  $\chi^2/\text{NDF}$ : 26662.0/81

- sign 198.240 $\pm$ 0.941  $\chi^2/\text{NDF}$ : 12769.1/40

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.183+/-1.270  $\chi^2/\text{NDF}$ : 734.0/16

Left Out: 60.979+/-0.951  $\chi^2/\text{NDF}$ : 677.0/23

Right Out: 33.009+/-1.253  $\chi^2/\text{NDF}$ : 547.2/17

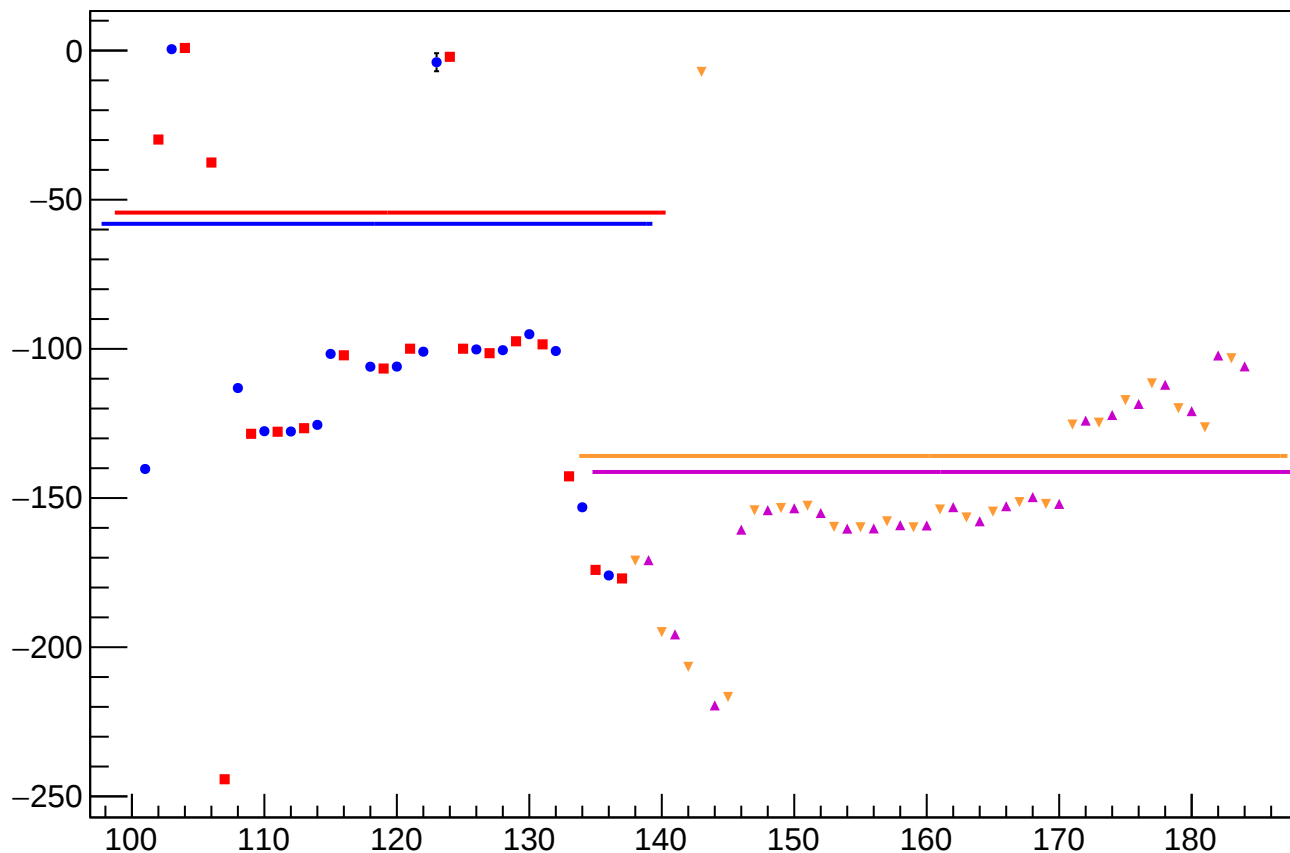
Left In: 62.290+/-0.971  $\chi^2/\text{NDF}$ : 411.6/22

+ sign 53.503+/-0.761  $\chi^2/\text{NDF}$ : 1582.8/40

All: 52.409+/-0.541  $\chi^2/\text{NDF}$ : 2887.0/81

- sign 51.298+/-0.768  $\chi^2/\text{NDF}$ : 1300.0/40

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -58.077+/-0.062  $\chi^2/\text{NDF}$ : 1104437.7/16

Left Out: -135.893+/-0.045  $\chi^2/\text{NDF}$ : 786934.6/23

Right Out: -54.323+/-0.060  $\chi^2/\text{NDF}$ : 991053.6/17

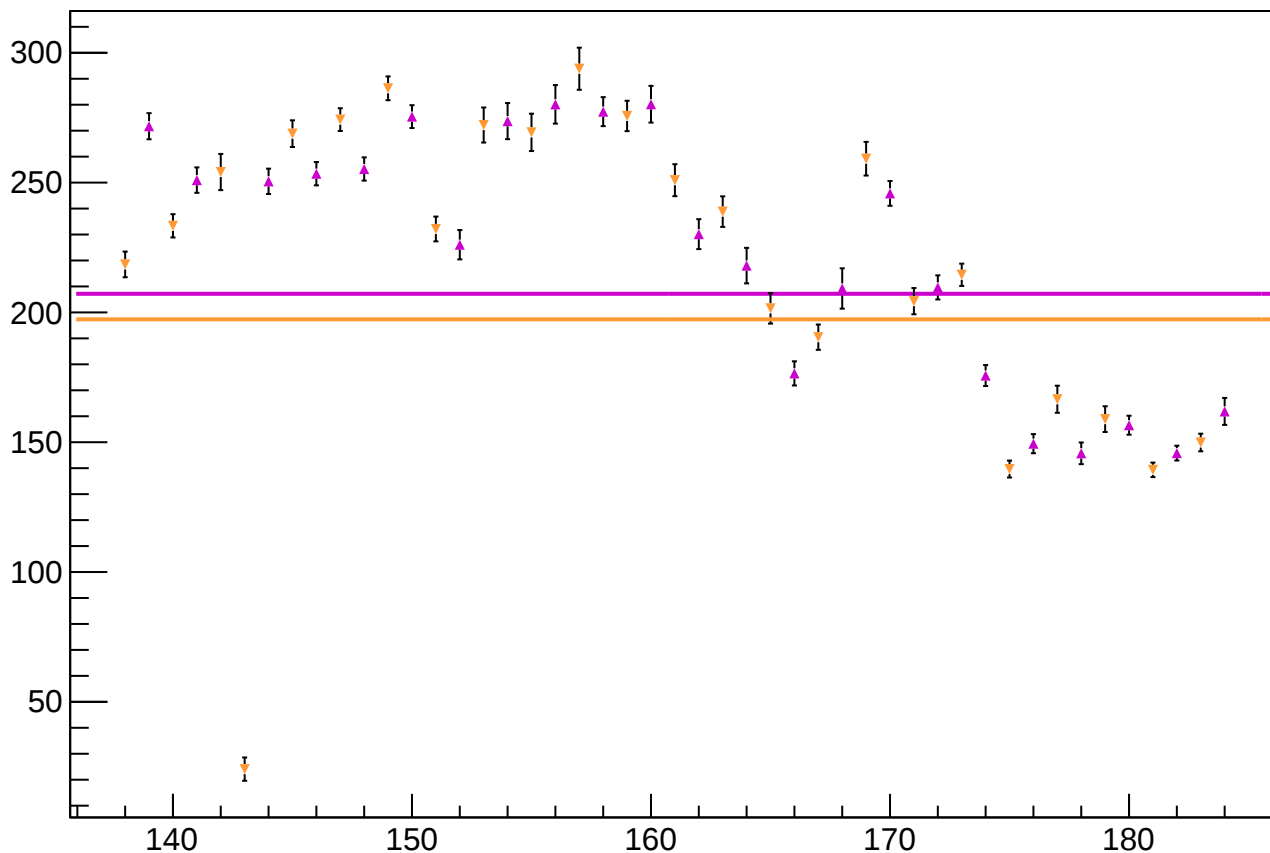
Left In: -141.259+/-0.045  $\chi^2/\text{NDF}$ : 350045.9/22

+ sign -108.632+/-0.036  $\chi^2/\text{NDF}$ : 2927425.9/40

All: -109.402+/-0.026  $\chi^2/\text{NDF}$ : 5598286.7/81

- sign -110.159+/-0.036  $\chi^2/\text{NDF}$ : 2669976.5/40

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 197.330+/-0.972  $\chi^2/\text{NDF}$ : 4384.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

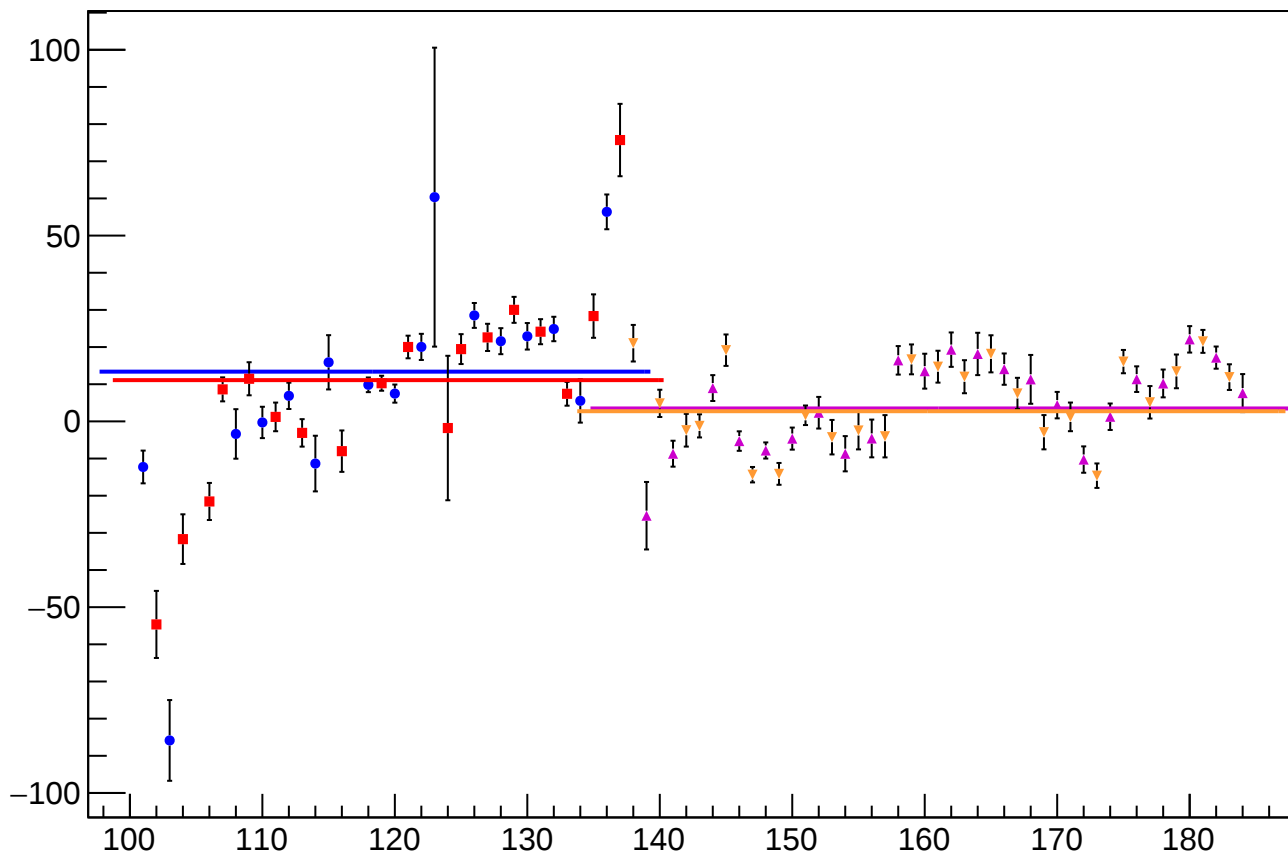
Left In: 207.171+/-0.986  $\chi^2/\text{NDF}$ : 2631.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 202.181+/-0.692  $\chi^2/\text{NDF}$ : 7066.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $13.385 \pm 0.921$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $2.738 \pm 0.746$   $\chi^2/\text{NDF}$ : 270.4/23

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

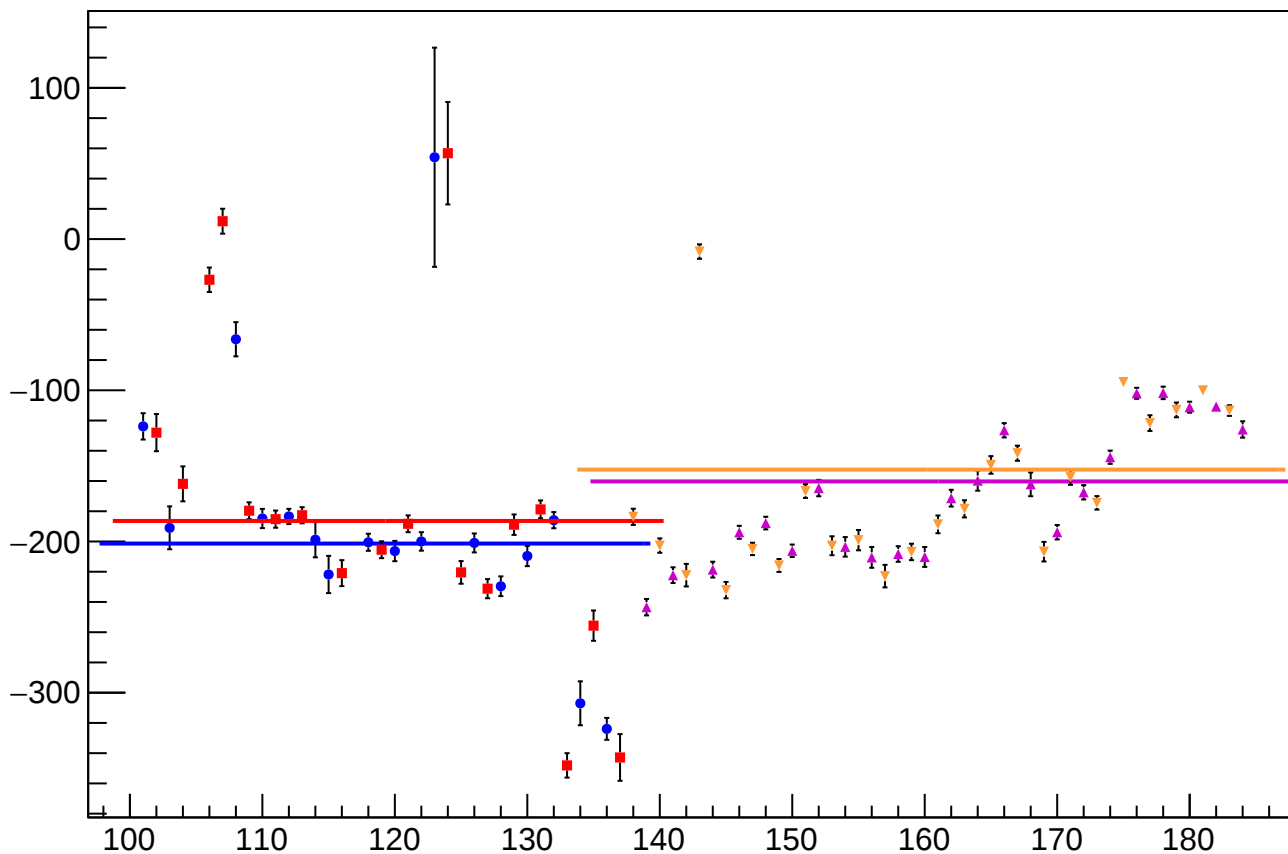
Left In:  $3.478 \pm 0.772$   $\chi^2/\text{NDF}$ : 194.7/22

+ sign  $6.956 \pm 0.580$   $\chi^2/\text{NDF}$ : 645.1/40

All:  $6.804 \pm 0.414$   $\chi^2/\text{NDF}$ : 1172.7/81

- sign  $6.646 \pm 0.590$   $\chi^2/\text{NDF}$ : 527.5/40

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-201.367 \pm 1.784$   $\chi^2/\text{NDF}$ : 625.0/16

Left Out:  $-152.466 \pm 0.976$   $\chi^2/\text{NDF}$ : 3074.7/23

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

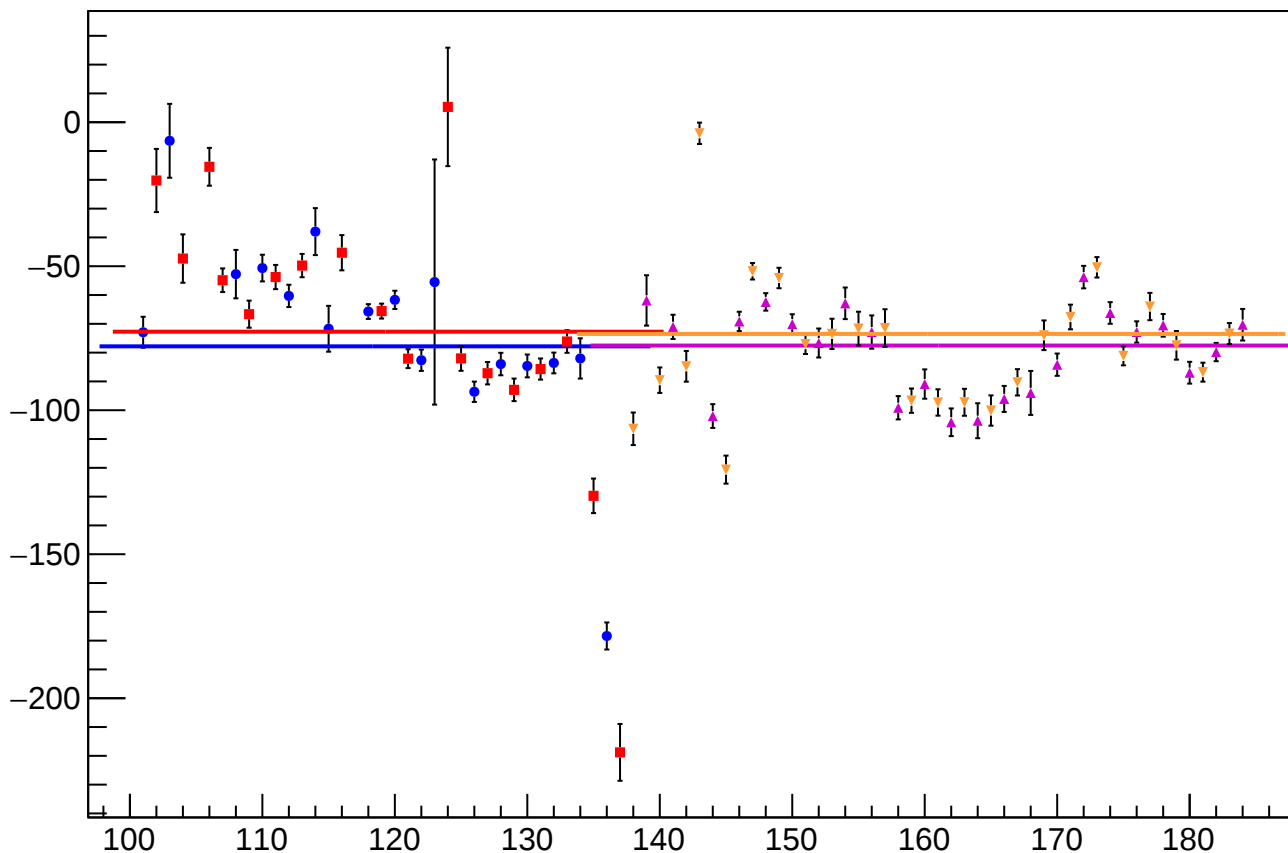
Left In:  $-160.279 \pm 0.985$   $\chi^2/\text{NDF}$ : 2049.4/22

+ sign  $-163.726 \pm 0.856$   $\chi^2/\text{NDF}$ : 4278.3/40

All:  $-165.282 \pm 0.604$   $\chi^2/\text{NDF}$ : 8210.2/81

- sign  $-166.826 \pm 0.853$   $\chi^2/\text{NDF}$ : 3925.3/40

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-77.818 \pm 1.068$   $\chi^2/\text{NDF}$ : 656.4/16

Left Out:  $-73.510 \pm 0.858$   $\chi^2/\text{NDF}$ : 777.9/23

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

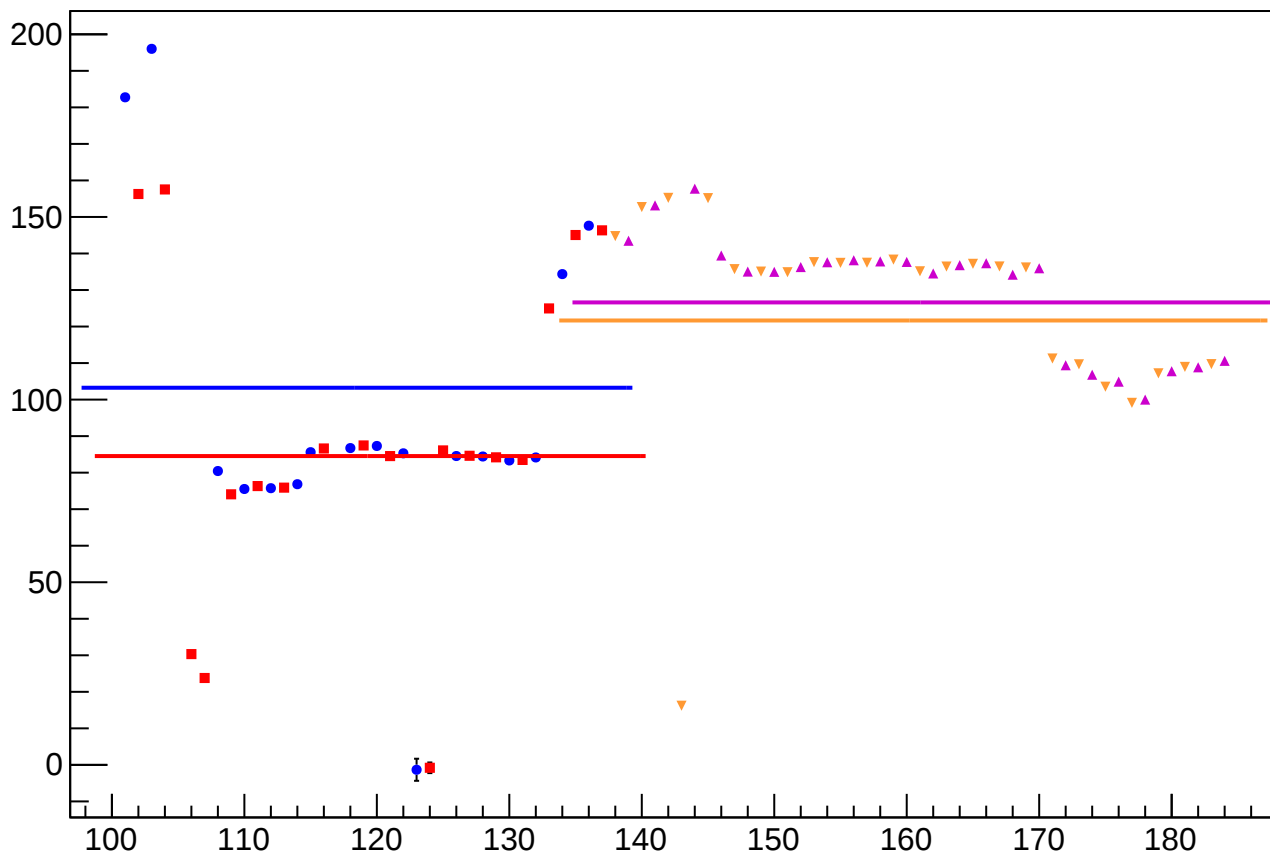
Left In:  $-77.545 \pm 0.880$   $\chi^2/\text{NDF}$ : 252.7/22

+ sign  $-75.200 \pm 0.669$   $\chi^2/\text{NDF}$ : 1444.2/40

All:  $-75.382 \pm 0.475$   $\chi^2/\text{NDF}$ : 2308.3/81

- sign  $-75.568 \pm 0.675$   $\chi^2/\text{NDF}$ : 864.0/40

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 103.247 $\pm$ 0.070  $\chi^2$ /NDF: 273390.3/16

Left Out: 121.658 $\pm$ 0.041  $\chi^2$ /NDF: 479964.6/23

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

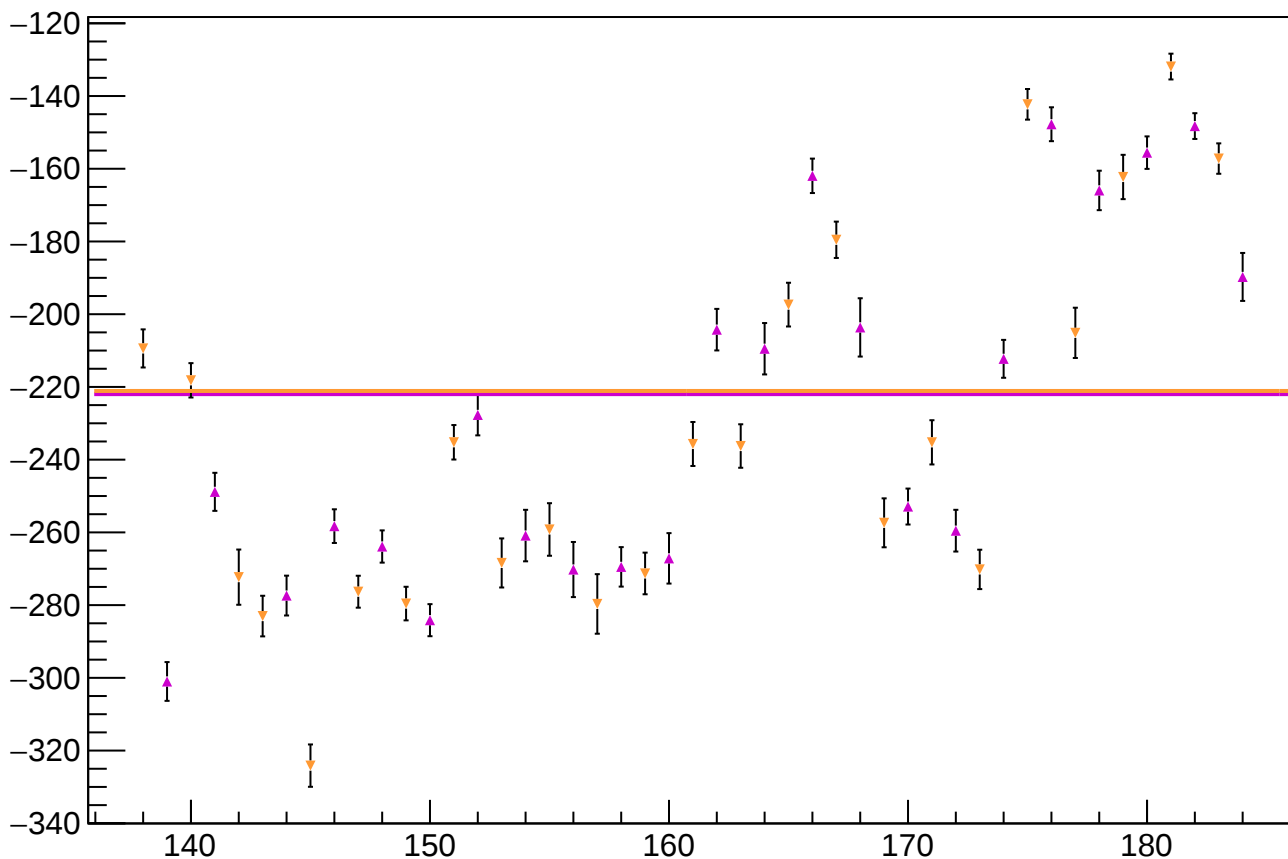
Left In: 126.605 $\pm$ 0.041  $\chi^2$ /NDF: 164757.9/22

+ sign 117.035 $\pm$ 0.035  $\chi^2$ /NDF: 804486.2/40

All: 115.679 $\pm$ 0.025  $\chi^2$ /NDF: 1690848.6/81

- sign 114.389 $\pm$ 0.034  $\chi^2$ /NDF: 883483.9/40

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -221.110+/-1.093  $\chi^2/\text{NDF}$ : 2547.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

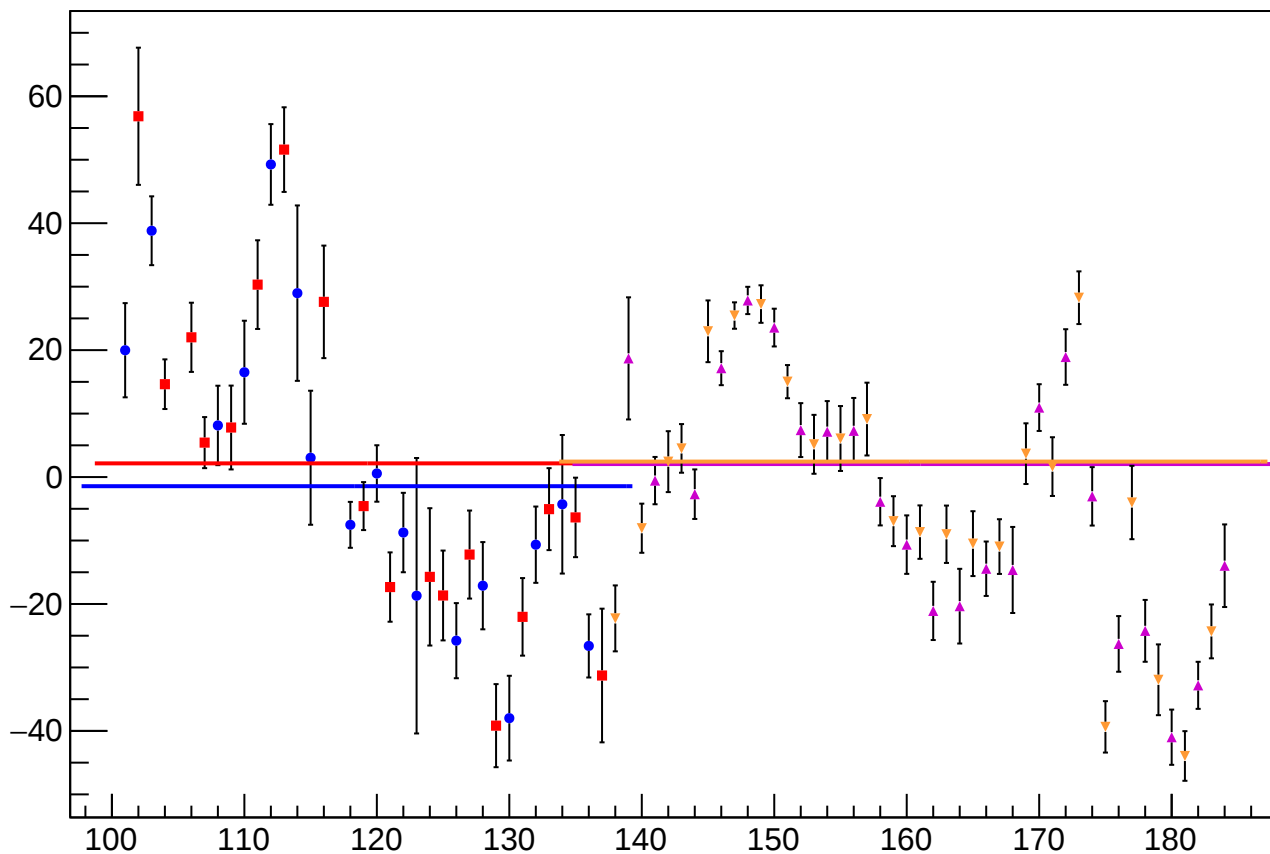
Left In: -221.980+/-1.098  $\chi^2/\text{NDF}$ : 2190.6/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -221.543+/-0.775  $\chi^2/\text{NDF}$ : 4738.8/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-1.440 \pm 1.516$   $\chi^2/\text{NDF}: 224.4/16$

Left Out:  $2.438 \pm 0.811$   $\chi^2/\text{NDF}: 666.3/23$

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}: 230.2/17$

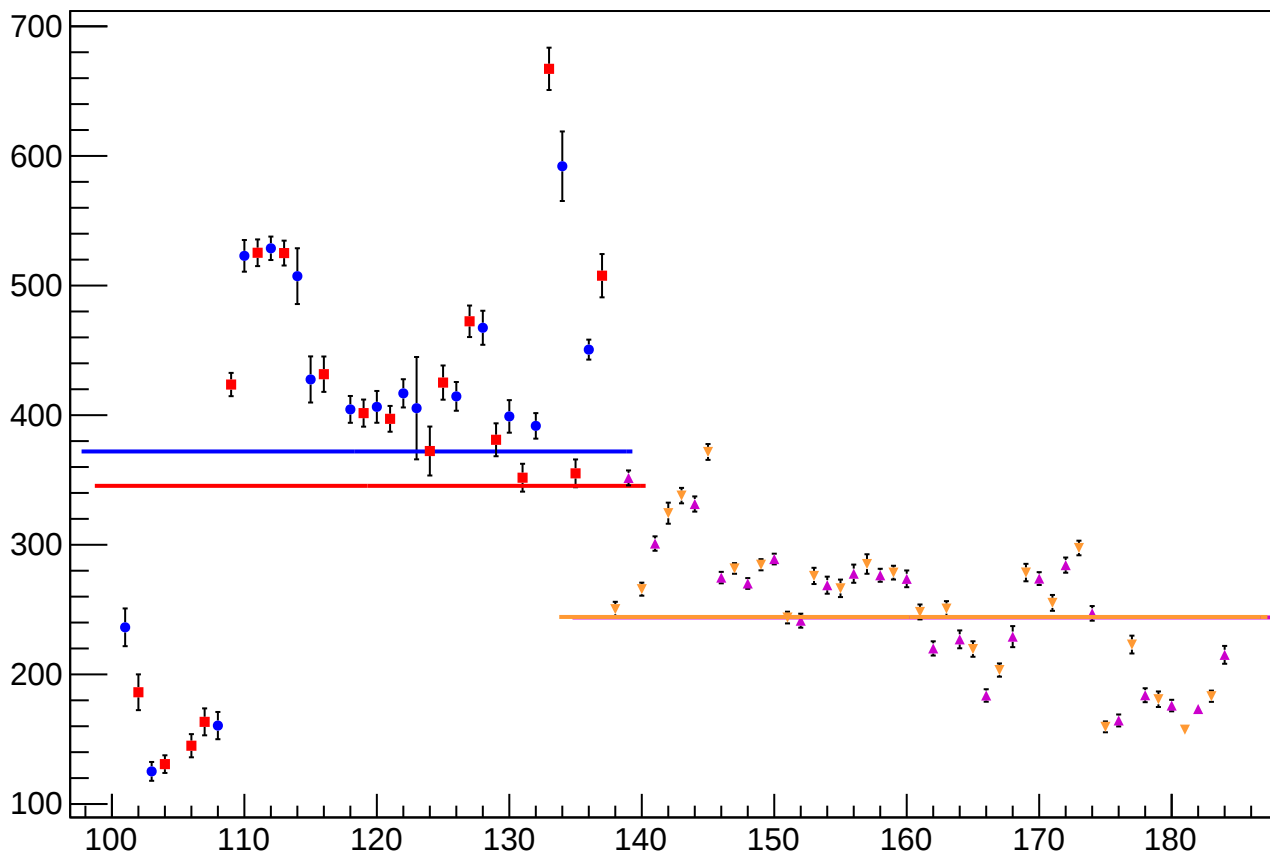
Left In:  $2.050 \pm 0.833$   $\chi^2/\text{NDF}: 592.6/22$

+ sign  $1.574 \pm 0.715$   $\chi^2/\text{NDF}: 895.8/40$

All:  $1.826 \pm 0.506$   $\chi^2/\text{NDF}: 1718.8/81$

- sign  $2.078 \pm 0.716$   $\chi^2/\text{NDF}: 822.8/40$

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $371.997 \pm 2.765$   $\chi^2/\text{NDF}: 2431.2/16$

Left Out:  $244.321 \pm 1.090$   $\chi^2/\text{NDF}: 2559.6/23$

Right Out:  $345.473 \pm 2.564$   $\chi^2/\text{NDF}: 3401.6/17$

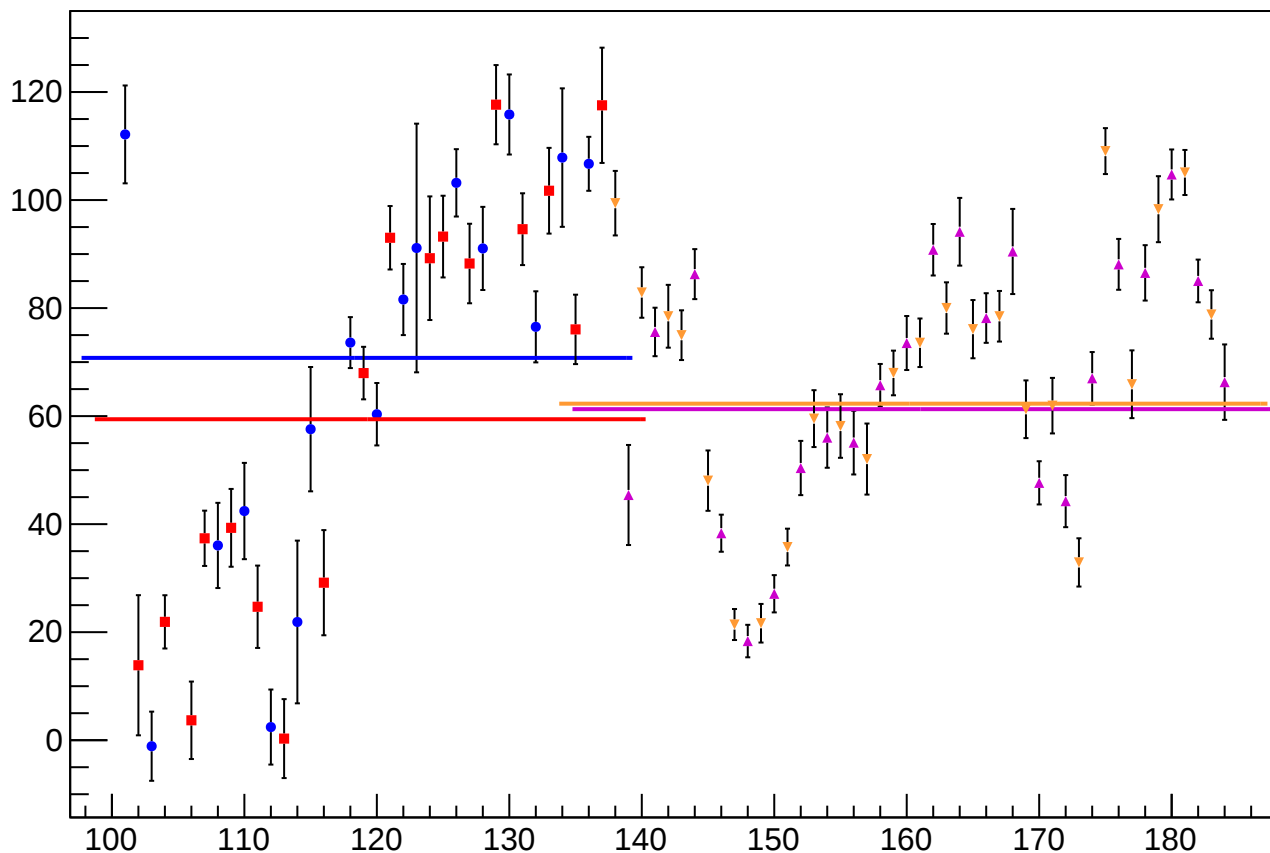
Left In:  $243.933 \pm 1.090$   $\chi^2/\text{NDF}: 2294.8/22$

+ sign  $261.491 \pm 1.014$   $\chi^2/\text{NDF}: 6836.7/40$

All:  $260.471 \pm 0.713$   $\chi^2/\text{NDF}: 13863.0/81$

- sign  $259.473 \pm 1.003$   $\chi^2/\text{NDF}: 7024.3/40$

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.780 $\pm$ 1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 62.302 $\pm$ 0.942  $\chi^2$ /NDF: 834.8/23

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

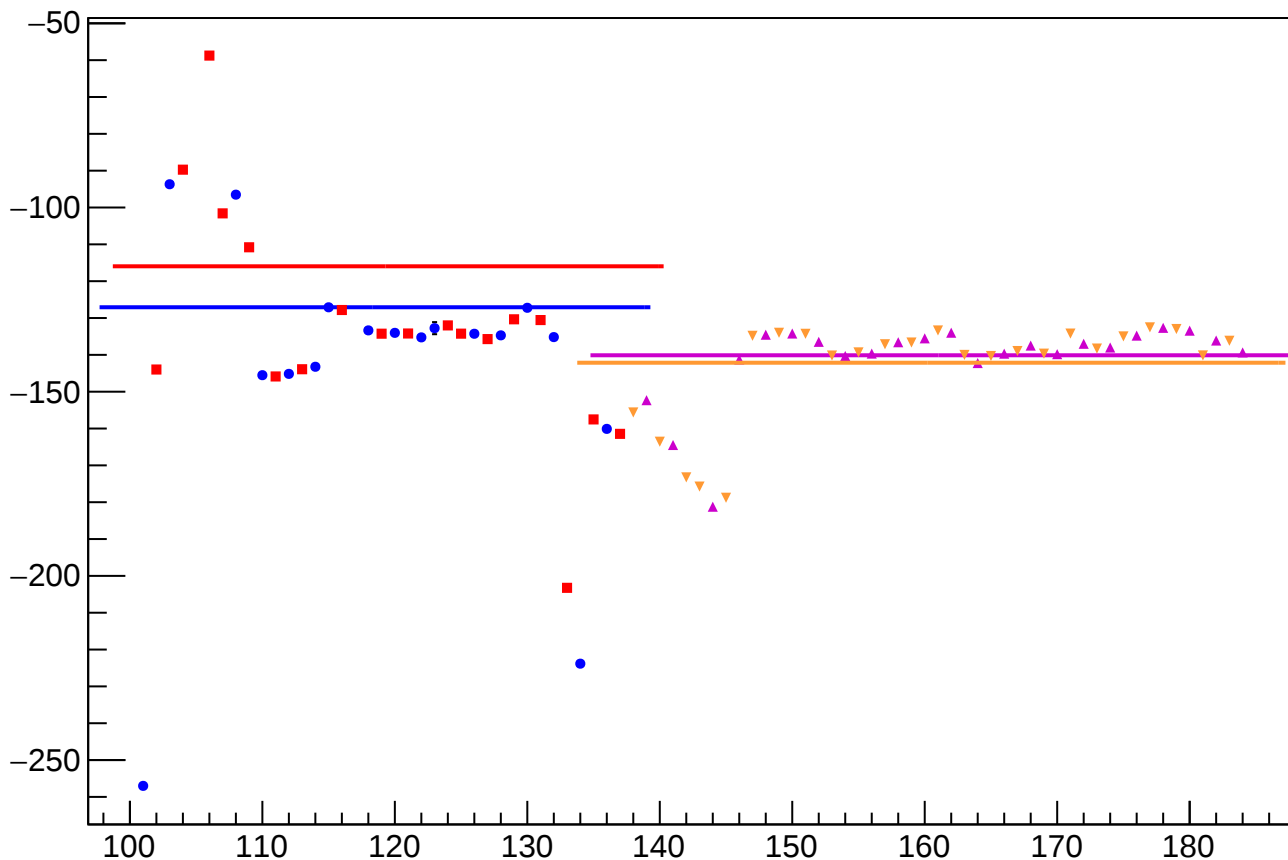
Left In: 61.286 $\pm$ 0.959  $\chi^2$ /NDF: 702.8/22

+ sign 64.213 $\pm$ 0.829  $\chi^2$ /NDF: 1277.0/40

All: 62.505 $\pm$ 0.585  $\chi^2$ /NDF: 2475.8/81

- sign 60.808 $\pm$ 0.827  $\chi^2$ /NDF: 1190.4/40

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -127.076+/-0.090  $\chi^2/\text{NDF}$ : 167028.9/16

Left Out: -142.135+/-0.045  $\chi^2/\text{NDF}$ : 79564.9/23

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

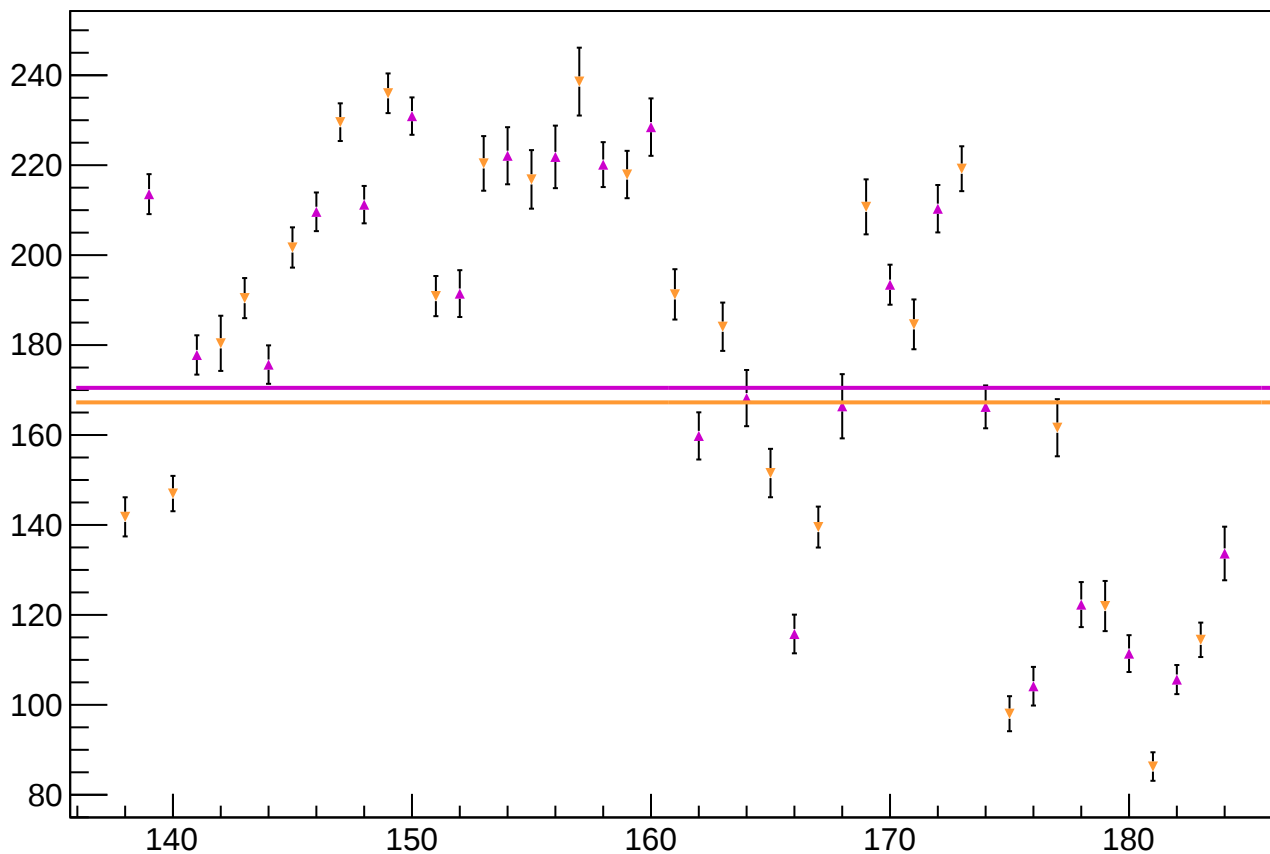
Left In: -140.112+/-0.045  $\chi^2/\text{NDF}$ : 48400.6/22

+ sign -139.083+/-0.040  $\chi^2/\text{NDF}$ : 269151.8/40

All: -136.823+/-0.028  $\chi^2/\text{NDF}$ : 548223.2/81

- sign -134.659+/-0.039  $\chi^2/\text{NDF}$ : 272918.4/40

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 167.256+/-0.978  $\chi^2/\text{NDF}$ : 2427.4/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

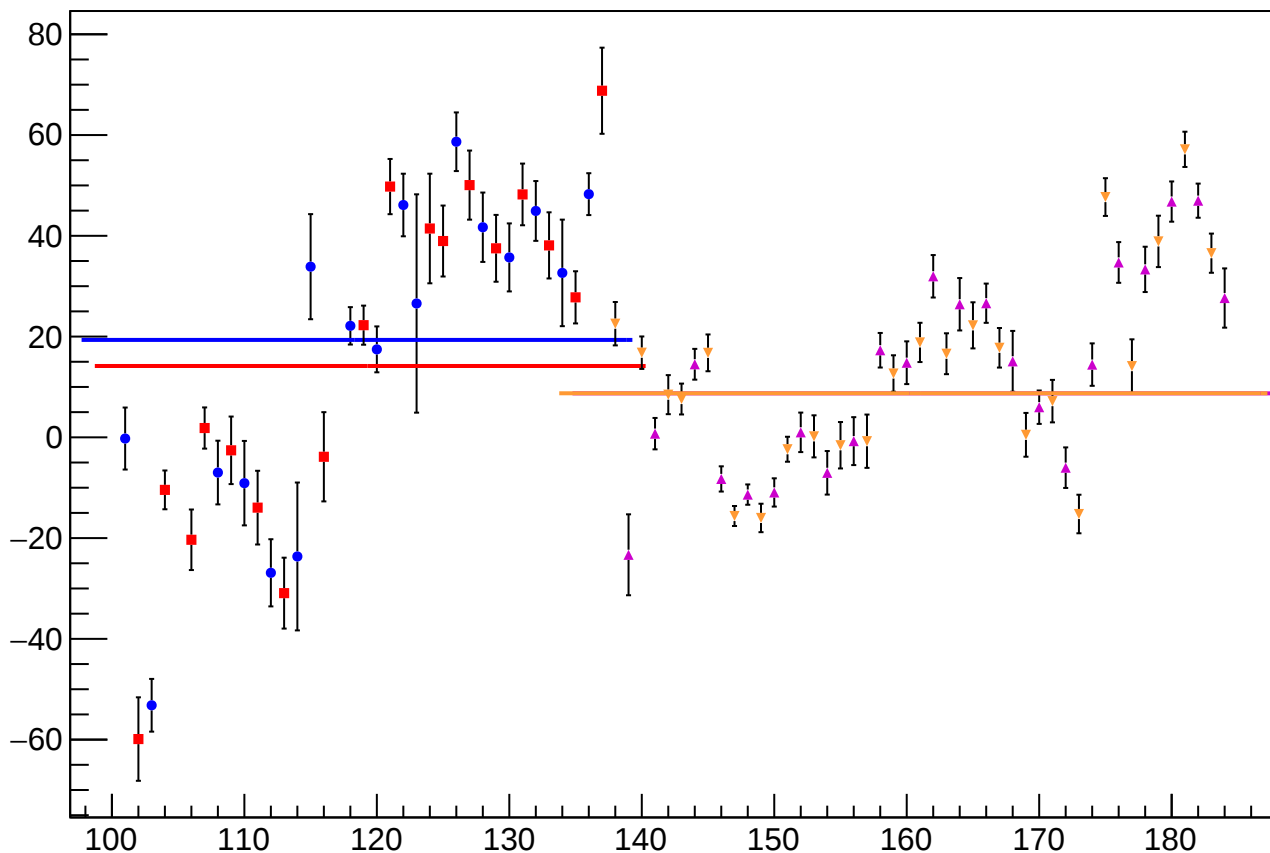
Left In: 170.487+/-0.991  $\chi^2/\text{NDF}$ : 2036.5/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.849+/-0.696  $\chi^2/\text{NDF}$ : 4469.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $19.337 \pm 1.482$   $\chi^2/\text{NDF}: 439.8/16$

Left Out:  $8.744 \pm 0.732$   $\chi^2/\text{NDF}: 736.6/23$

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}: 426.0/17$

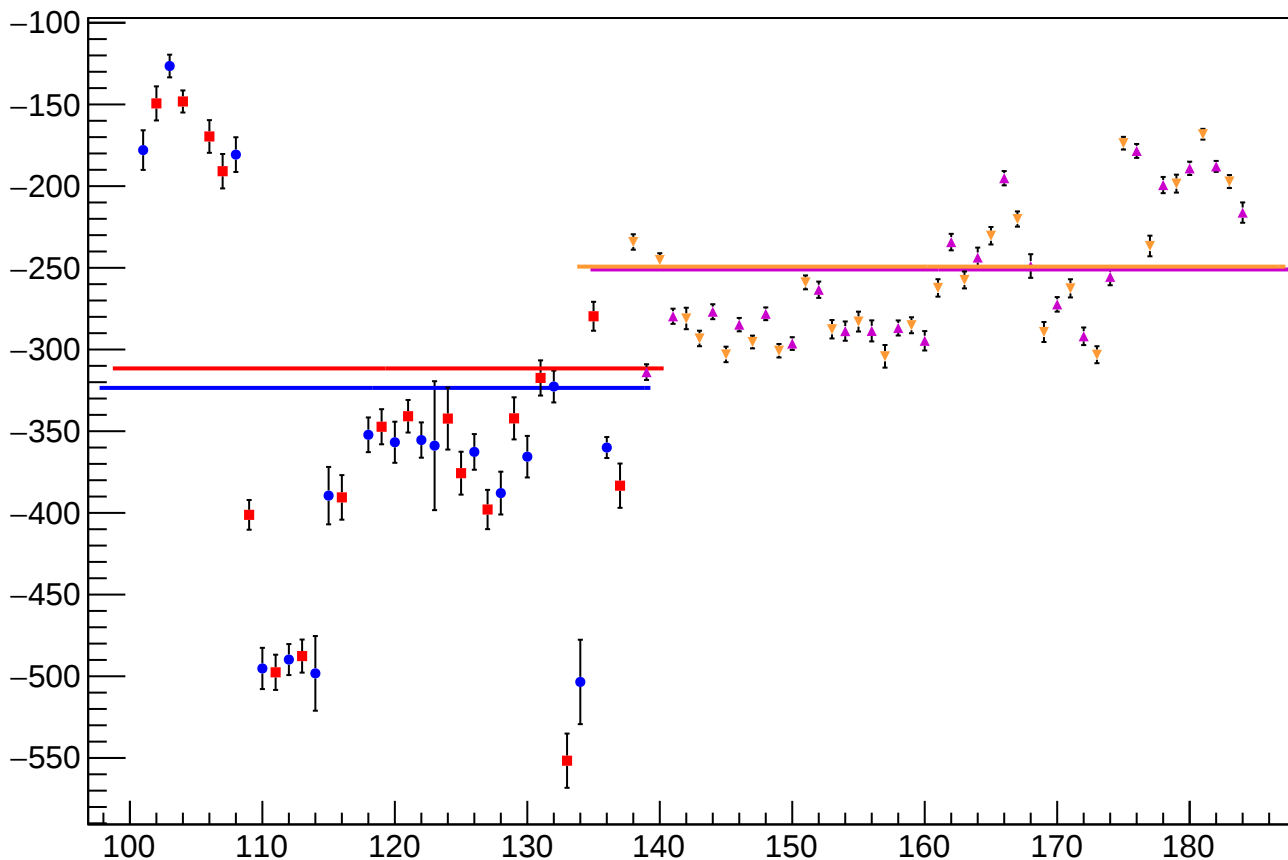
Left In:  $8.730 \pm 0.757$   $\chi^2/\text{NDF}: 630.1/22$

+ sign  $10.821 \pm 0.656$   $\chi^2/\text{NDF}: 1217.5/40$

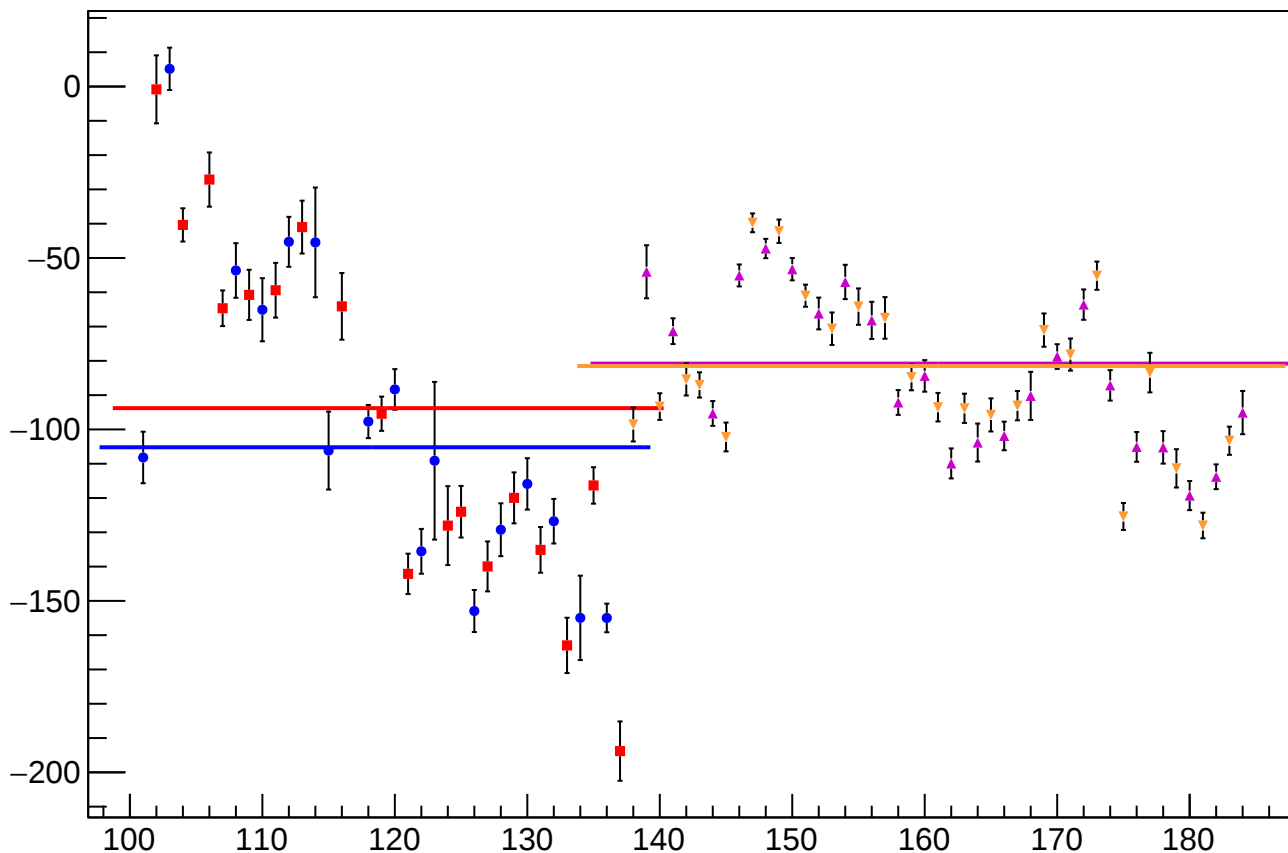
All:  $10.401 \pm 0.467$   $\chi^2/\text{NDF}: 2286.2/81$

- sign  $9.970 \pm 0.665$   $\chi^2/\text{NDF}: 1067.9/40$

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-105.203 \pm 1.697$   $\chi^2/\text{NDF}$ : 735.6/16

Left Out:  $-81.512 \pm 0.848$   $\chi^2/\text{NDF}$ : 891.4/23

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

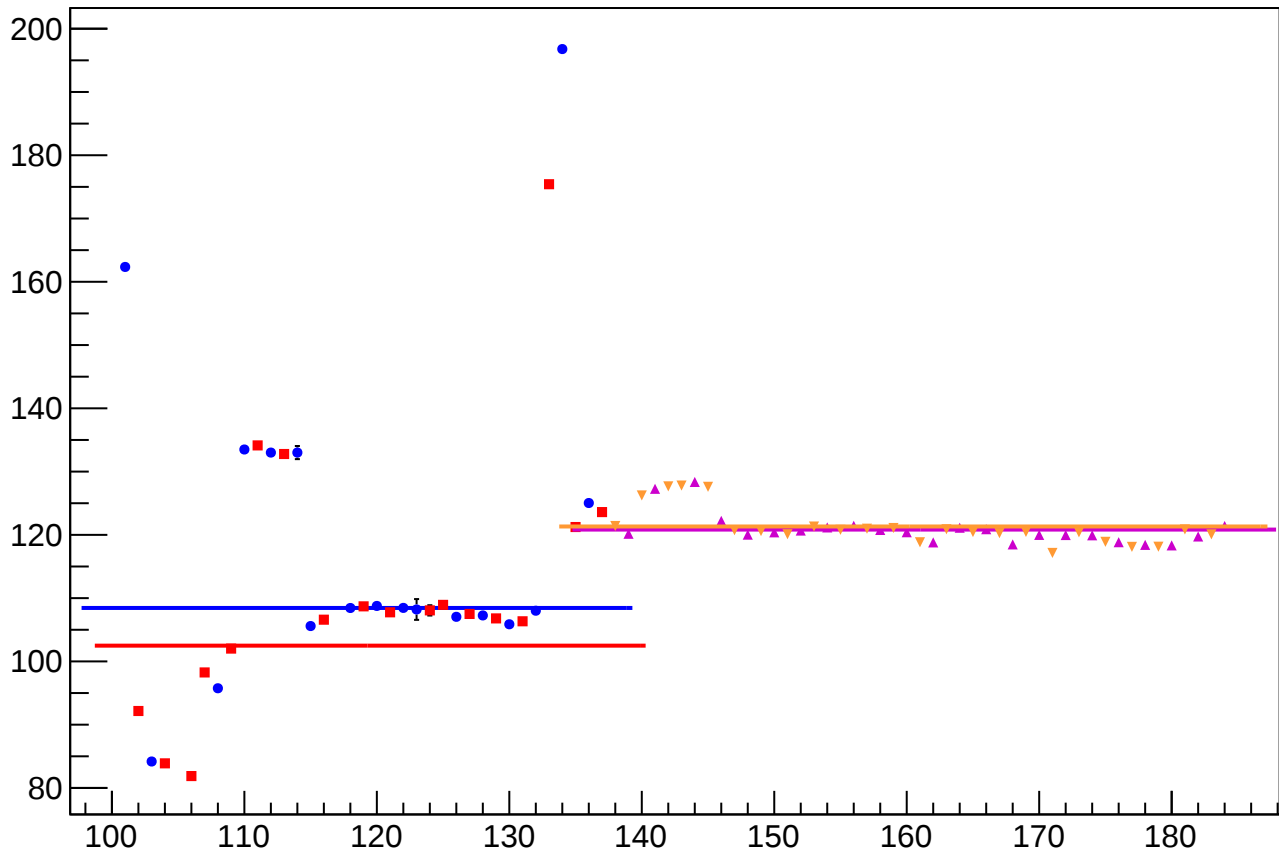
Left In:  $-80.803 \pm 0.870$   $\chi^2/\text{NDF}$ : 695.4/22

+ sign  $-86.250 \pm 0.759$   $\chi^2/\text{NDF}$ : 1783.0/40

All:  $-85.003 \pm 0.539$   $\chi^2/\text{NDF}$ : 3349.6/81

- sign  $-83.734 \pm 0.765$   $\chi^2/\text{NDF}$ : 1561.1/40

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 121.324 $\pm$ 0.040  $\chi^2$ /NDF: 4883.8/23

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

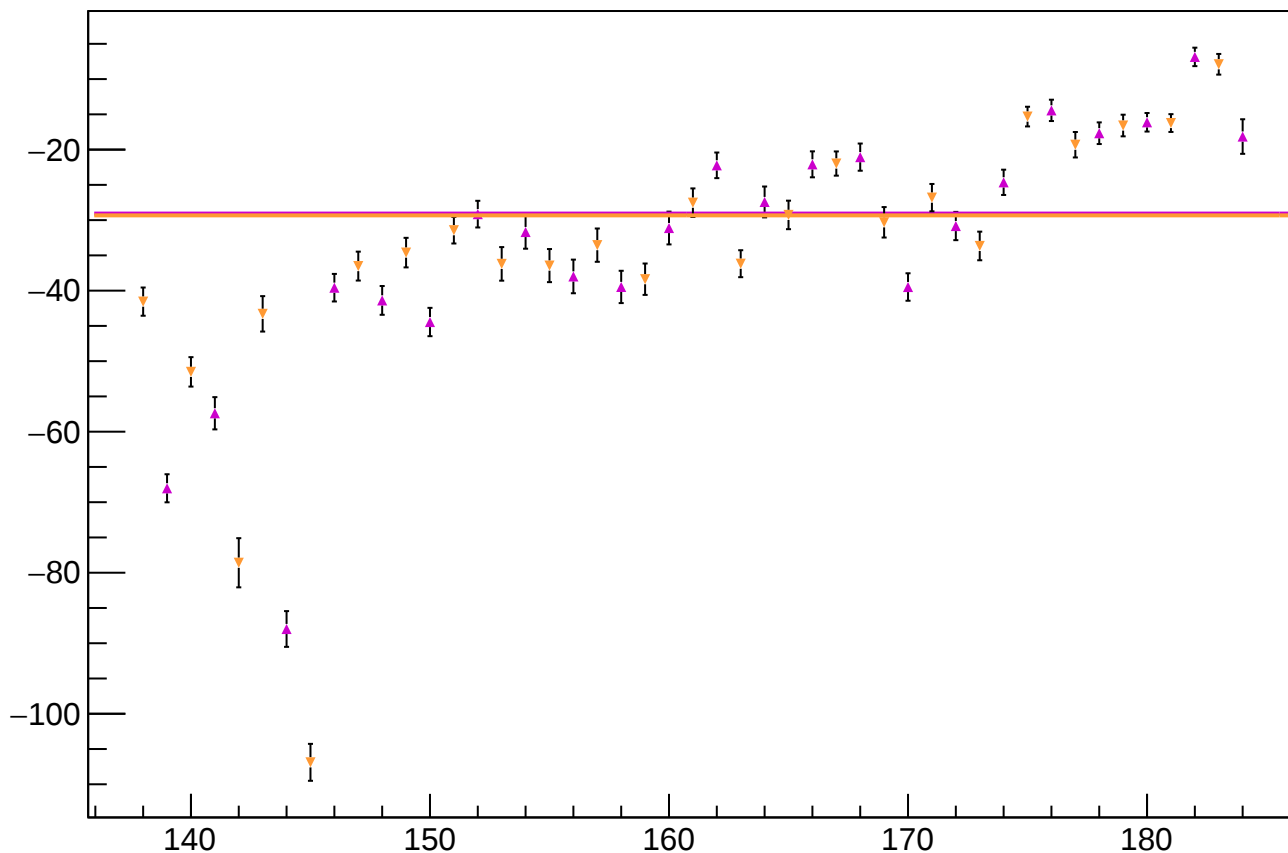
Left In: 120.834 $\pm$ 0.041  $\chi^2$ /NDF: 3372.4/22

+ sign 118.935 $\pm$ 0.037  $\chi^2$ /NDF: 96929.3/40

All: 117.986 $\pm$ 0.026  $\chi^2$ /NDF: 196723.9/81

- sign 117.060 $\pm$ 0.036  $\chi^2$ /NDF: 98462.5/40

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.325+/-0.392  $\chi^2/\text{NDF}$ :1875.3/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

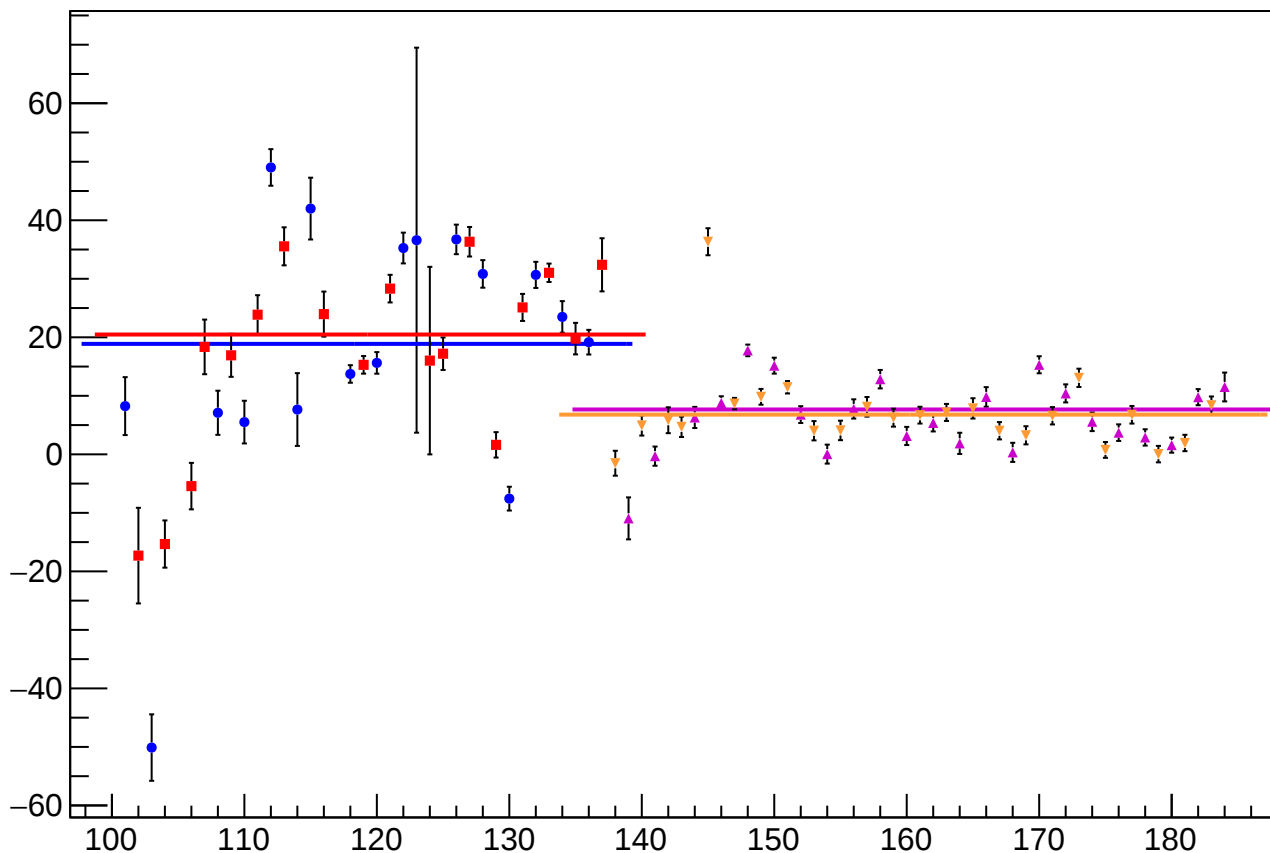
Left In: -29.073+/-0.394  $\chi^2/\text{NDF}$ :1872.4/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.200+/-0.278  $\chi^2/\text{NDF}$ : 3747.9/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $18.876 \pm 0.644$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $6.785 \pm 0.305$   $\chi^2/\text{NDF}$ : 297.2/23

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

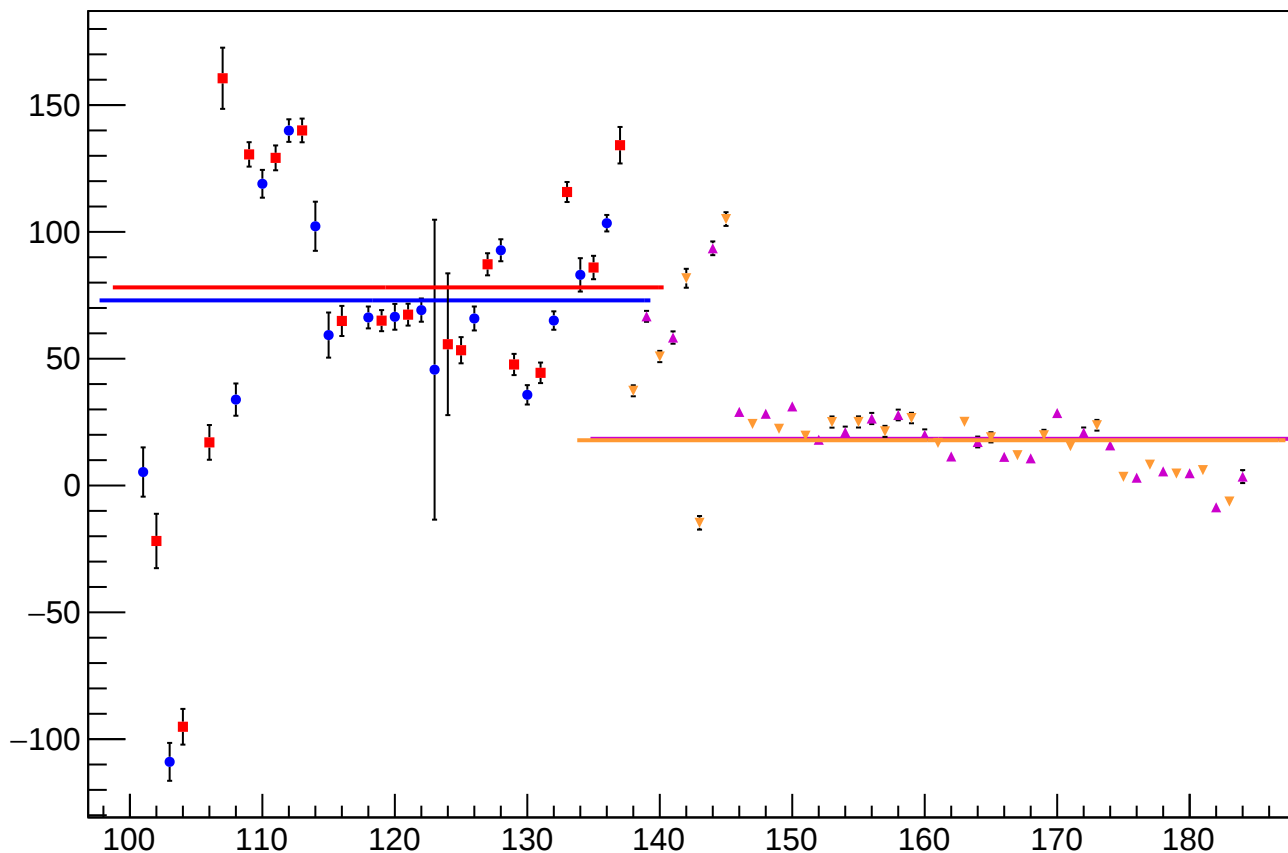
Left In:  $7.666 \pm 0.313$   $\chi^2/\text{NDF}$ : 341.1/22

+ sign  $8.997 \pm 0.276$   $\chi^2/\text{NDF}$ : 1205.3/40

All:  $9.543 \pm 0.197$   $\chi^2/\text{NDF}$ : 2237.3/81

- sign  $10.113 \pm 0.281$   $\chi^2/\text{NDF}$ : 1023.9/40

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 72.992 $\pm$ 1.230  $\chi^2$ /NDF: 1205.5/16

Left Out: 17.851 $\pm$ 0.390  $\chi^2$ /NDF: 2423.1/23

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

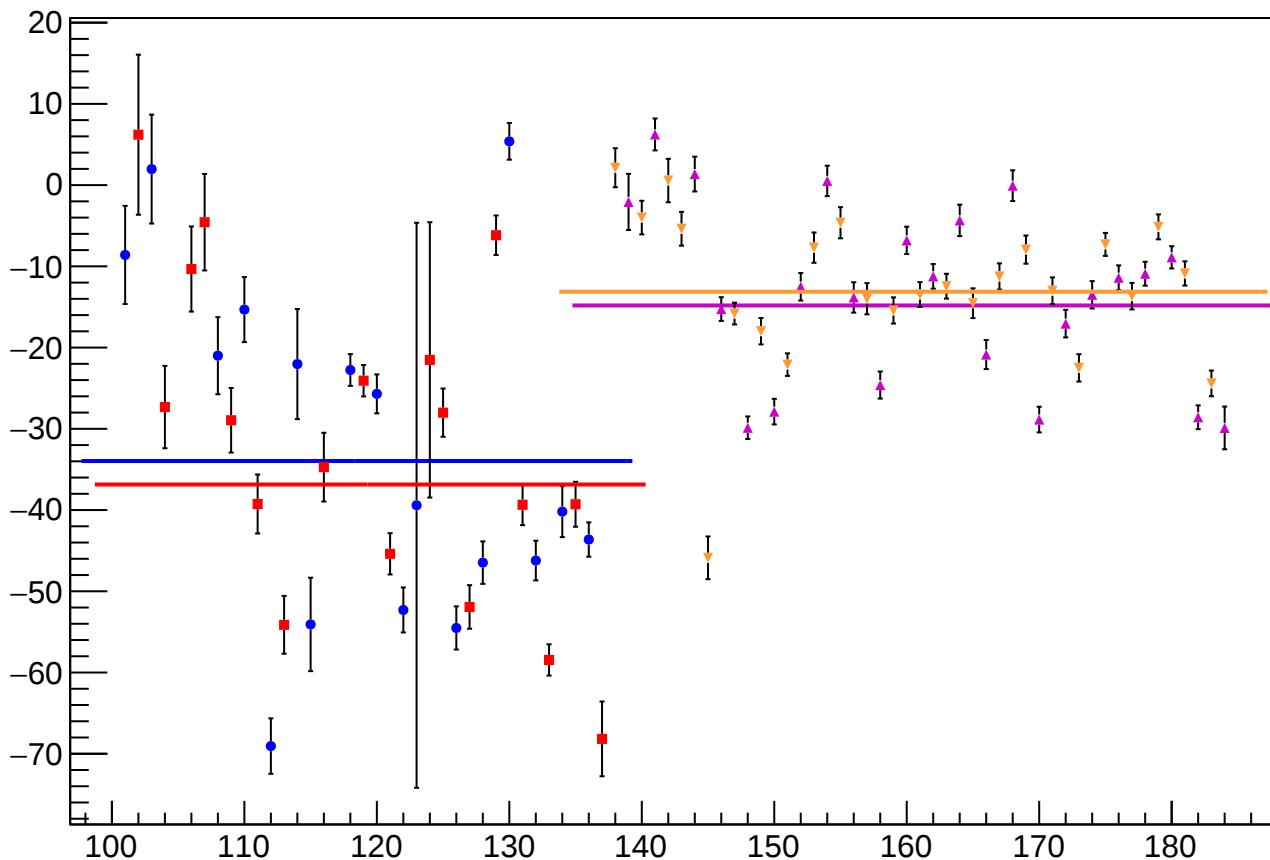
Left In: 18.416 $\pm$ 0.391  $\chi^2$ /NDF: 2468.4/22

+ sign 22.892 $\pm$ 0.372  $\chi^2$ /NDF: 5454.6/40

All: 23.421 $\pm$ 0.263  $\chi^2$ /NDF: 11632.9/81

- sign 23.952 $\pm$ 0.373  $\chi^2$ /NDF: 6174.3/40

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.964 \pm 0.738$   $\chi^2/\text{NDF}: 721.9/16$

Left Out:  $-13.124 \pm 0.346$   $\chi^2/\text{NDF}: 479.5/23$

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}: 535.3/17$

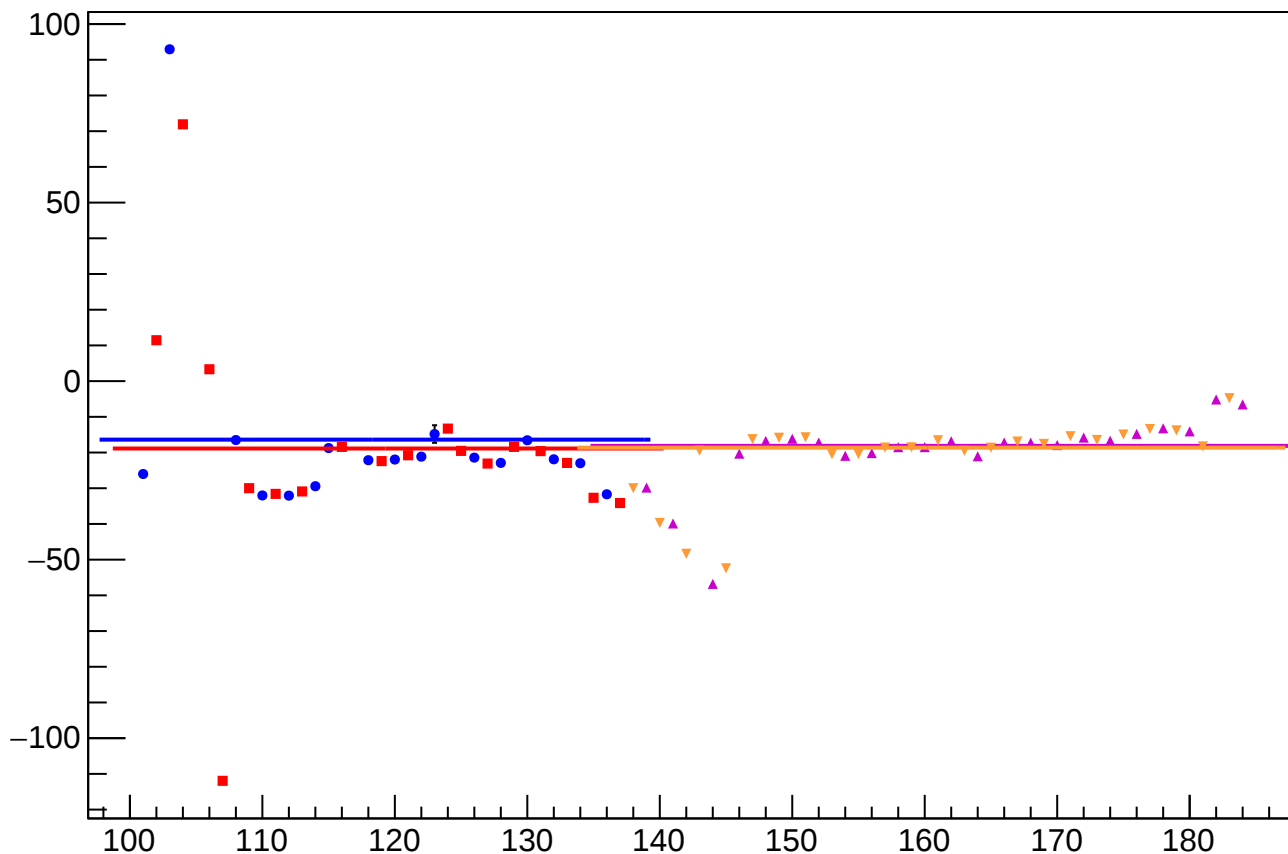
Left In:  $-14.815 \pm 0.353$   $\chi^2/\text{NDF}: 838.2/22$

+ sign  $-16.891 \pm 0.314$   $\chi^2/\text{NDF}: 1855.6/40$

All:  $-17.895 \pm 0.223$   $\chi^2/\text{NDF}: 3977.4/81$

- sign  $-18.931 \pm 0.318$   $\chi^2/\text{NDF}: 2101.0/40$

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.386 \pm 0.044$   $\chi^2/\text{NDF}: 474297.3/16$

Left Out:  $-18.638 \pm 0.016$   $\chi^2/\text{NDF}: 266448.9/23$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

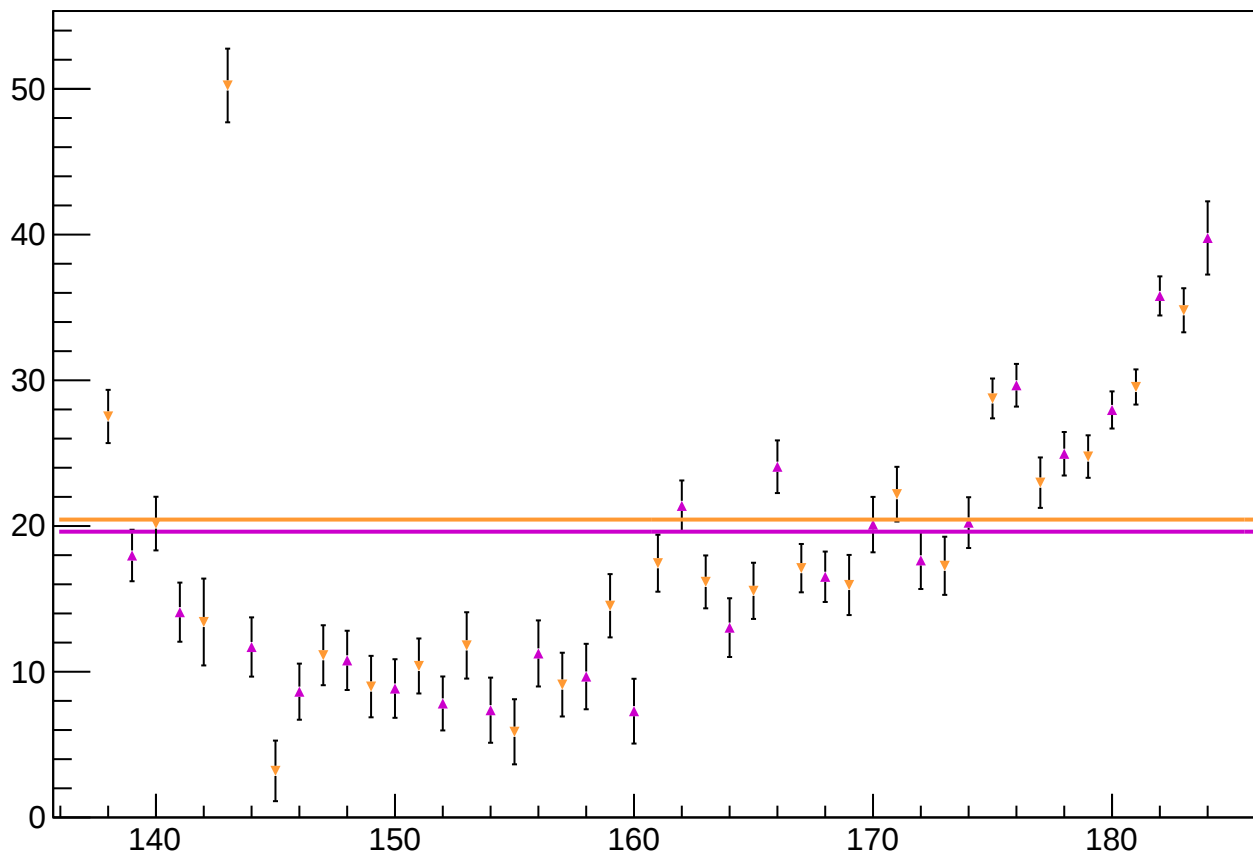
Left In:  $-18.135 \pm 0.016$   $\chi^2/\text{NDF}: 245650.3/22$

+ sign  $-18.380 \pm 0.015$   $\chi^2/\text{NDF}: 743017.4/40$

All:  $-18.299 \pm 0.011$   $\chi^2/\text{NDF}: 1422335.3/81$

- sign  $-18.217 \pm 0.015$   $\chi^2/\text{NDF}: 679259.2/40$

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 20.443 $\pm$ 0.376  $\chi^2/\text{NDF}$ : 619.3/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

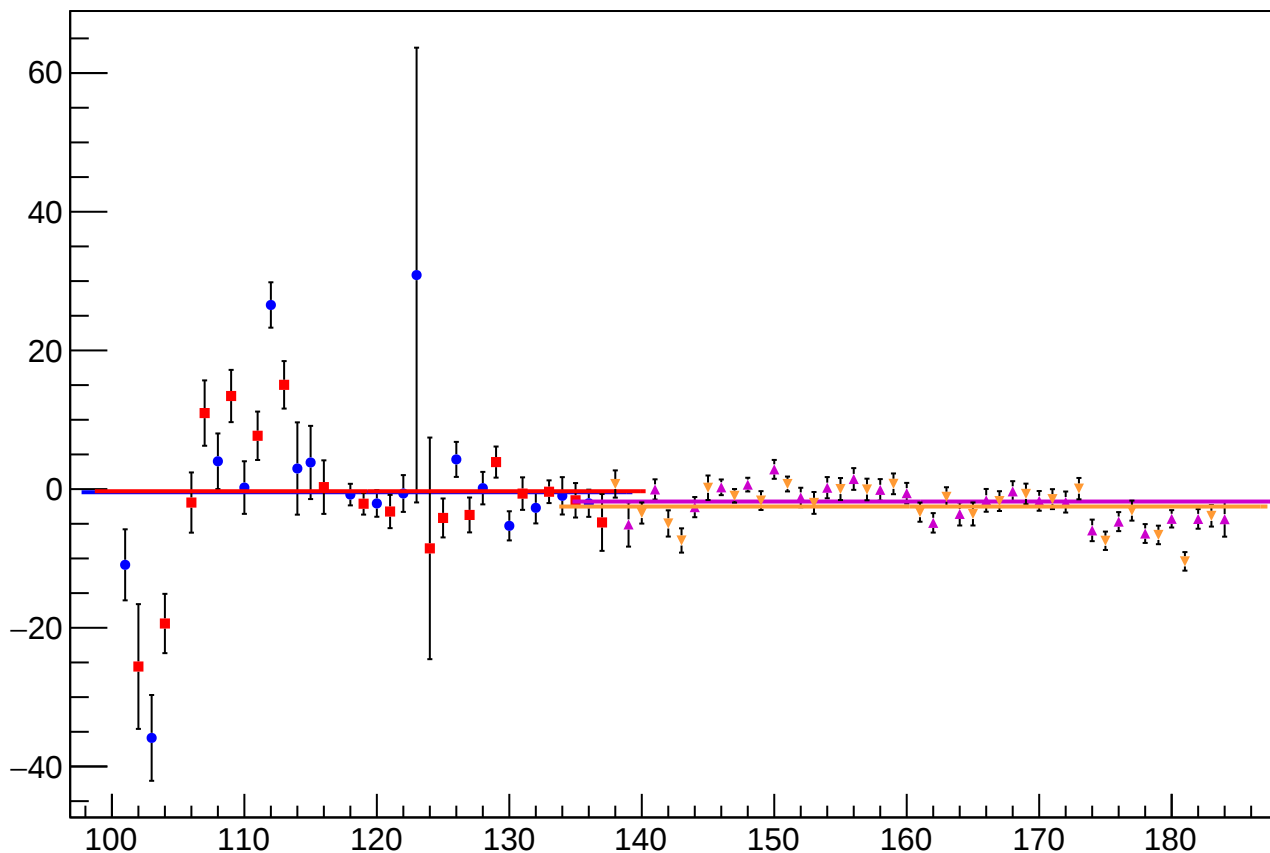
Left In: 19.612 $\pm$ 0.379  $\chi^2/\text{NDF}$ : 572.7/22

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.031 $\pm$ 0.267  $\chi^2/\text{NDF}$ : 1194.3/46

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.452 \pm 0.654$   $\chi^2/\text{NDF}$ : 119.5/16

Left Out:  $-2.513 \pm 0.294$   $\chi^2/\text{NDF}$ : 103.1/23

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

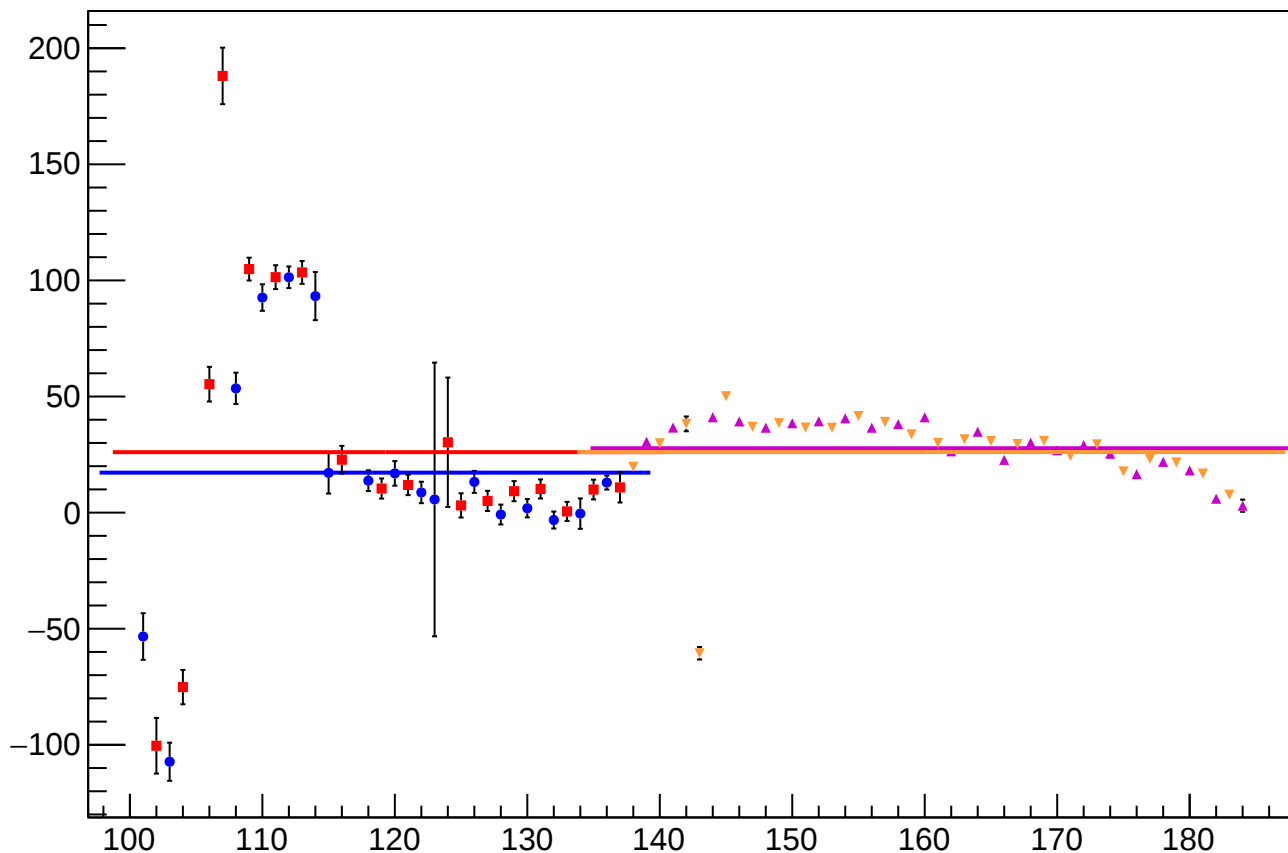
Left In:  $-1.791 \pm 0.301$   $\chi^2/\text{NDF}$ : 70.1/22

+ sign  $-2.167 \pm 0.268$   $\chi^2/\text{NDF}$ : 230.9/40

All:  $-1.857 \pm 0.192$   $\chi^2/\text{NDF}$ : 392.0/81

- sign  $-1.533 \pm 0.274$   $\chi^2/\text{NDF}$ : 158.4/40

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.218+/-1.241  $\chi^2/\text{NDF}$ : 940.1/16

Left Out: 26.079+/-0.375  $\chi^2/\text{NDF}$ : 1698.9/23

Right Out: 26.032+/-1.244  $\chi^2/\text{NDF}$ : 1366.0/17

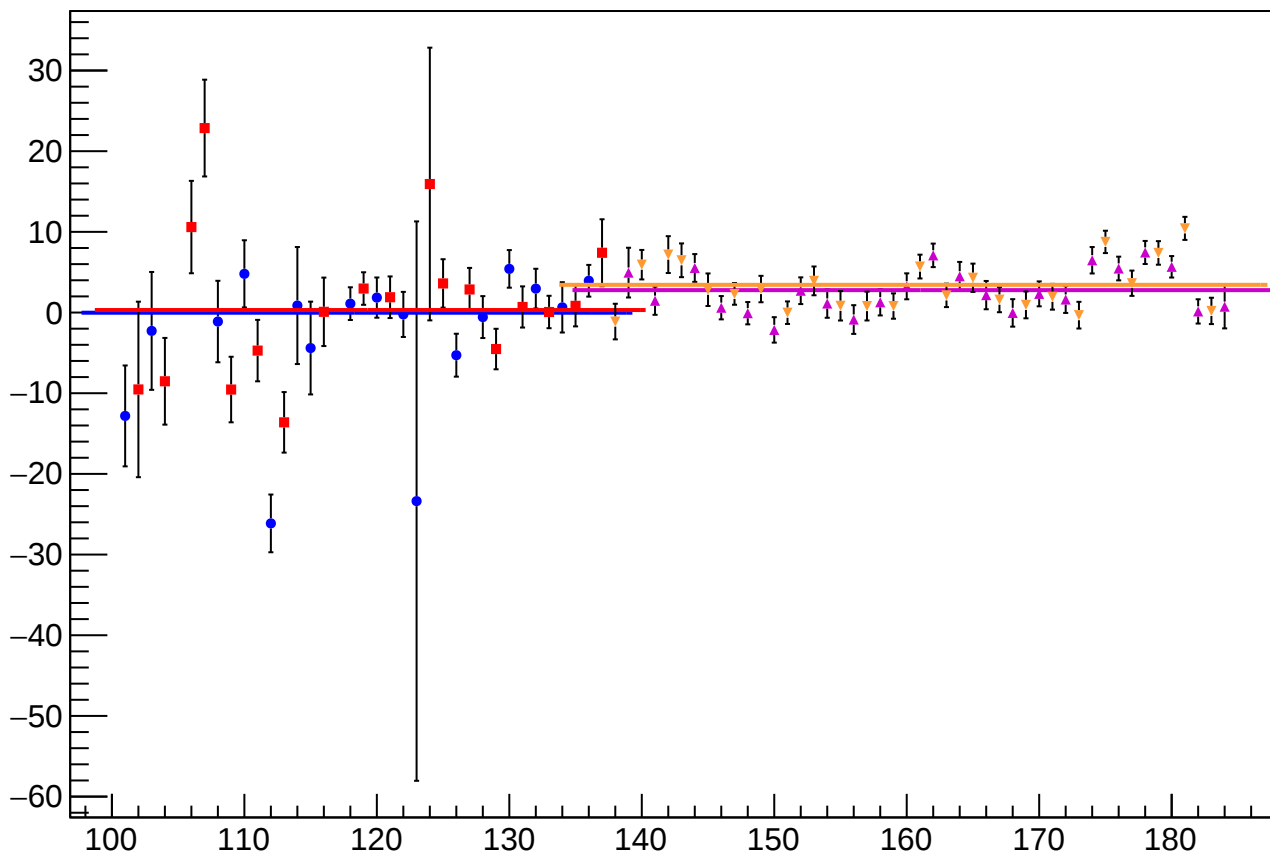
Left In: 27.725+/-0.377  $\chi^2/\text{NDF}$ : 805.1/22

+ sign 25.339+/-0.359  $\chi^2/\text{NDF}$ : 2685.7/40

All: 26.455+/-0.254  $\chi^2/\text{NDF}$ : 4877.9/81

- sign 27.583+/-0.360  $\chi^2/\text{NDF}$ : 2172.7/40

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.022 \pm 0.745$   $\chi^2/\text{NDF}$ : 75.8/16

Left Out:  $3.434 \pm 0.333$   $\chi^2/\text{NDF}$ : 88.1/23

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

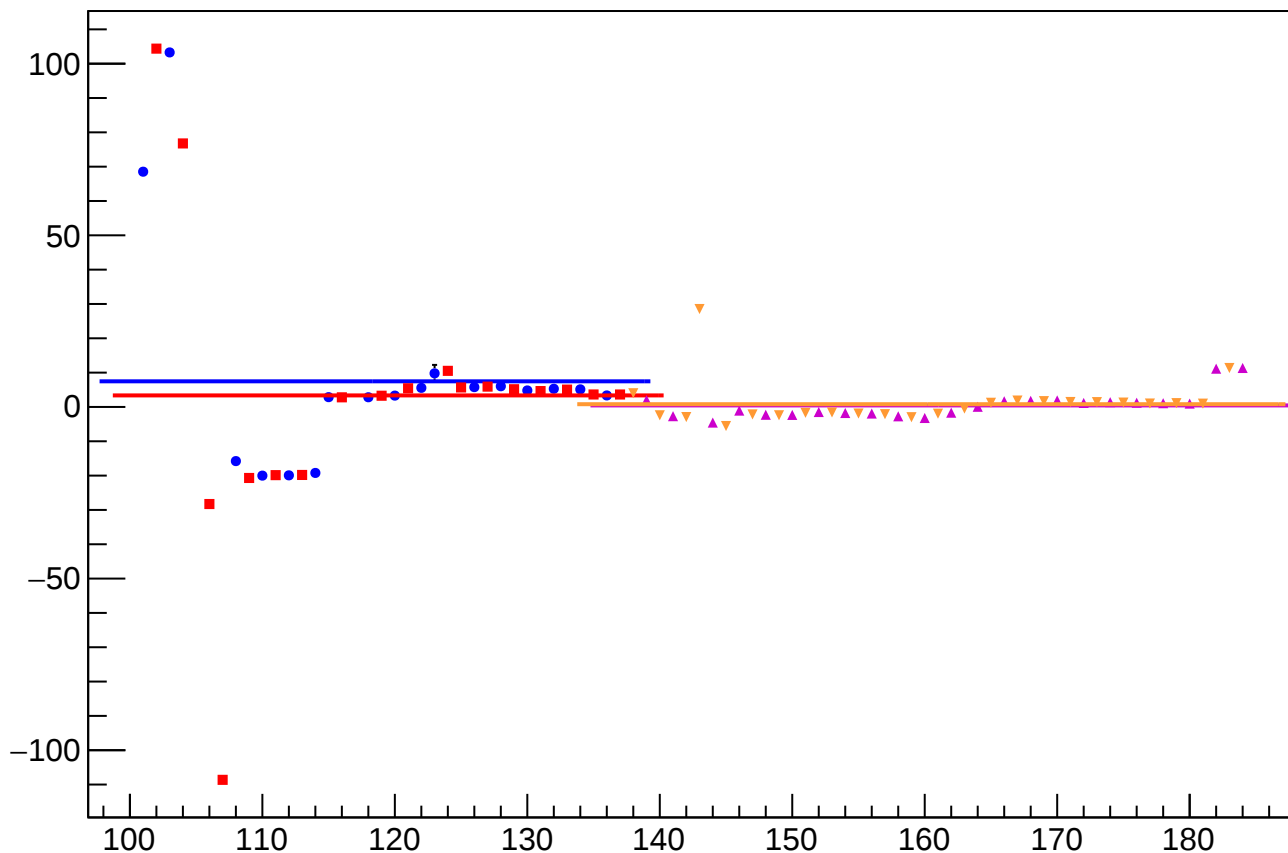
Left In:  $2.777 \pm 0.340$   $\chi^2/\text{NDF}$ : 66.5/22

+ sign  $2.857 \pm 0.304$   $\chi^2/\text{NDF}$ : 181.9/40

All:  $2.611 \pm 0.217$   $\chi^2/\text{NDF}$ : 312.8/81

- sign  $2.355 \pm 0.310$   $\chi^2/\text{NDF}$ : 129.6/40

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $7.467 \pm 0.044$   $\chi^2/\text{NDF}: 355890.1/16$

Left Out:  $0.801 \pm 0.015$   $\chi^2/\text{NDF}: 109761.8/23$

Right Out:  $3.362 \pm 0.046$   $\chi^2/\text{NDF}: 504811.4/17$

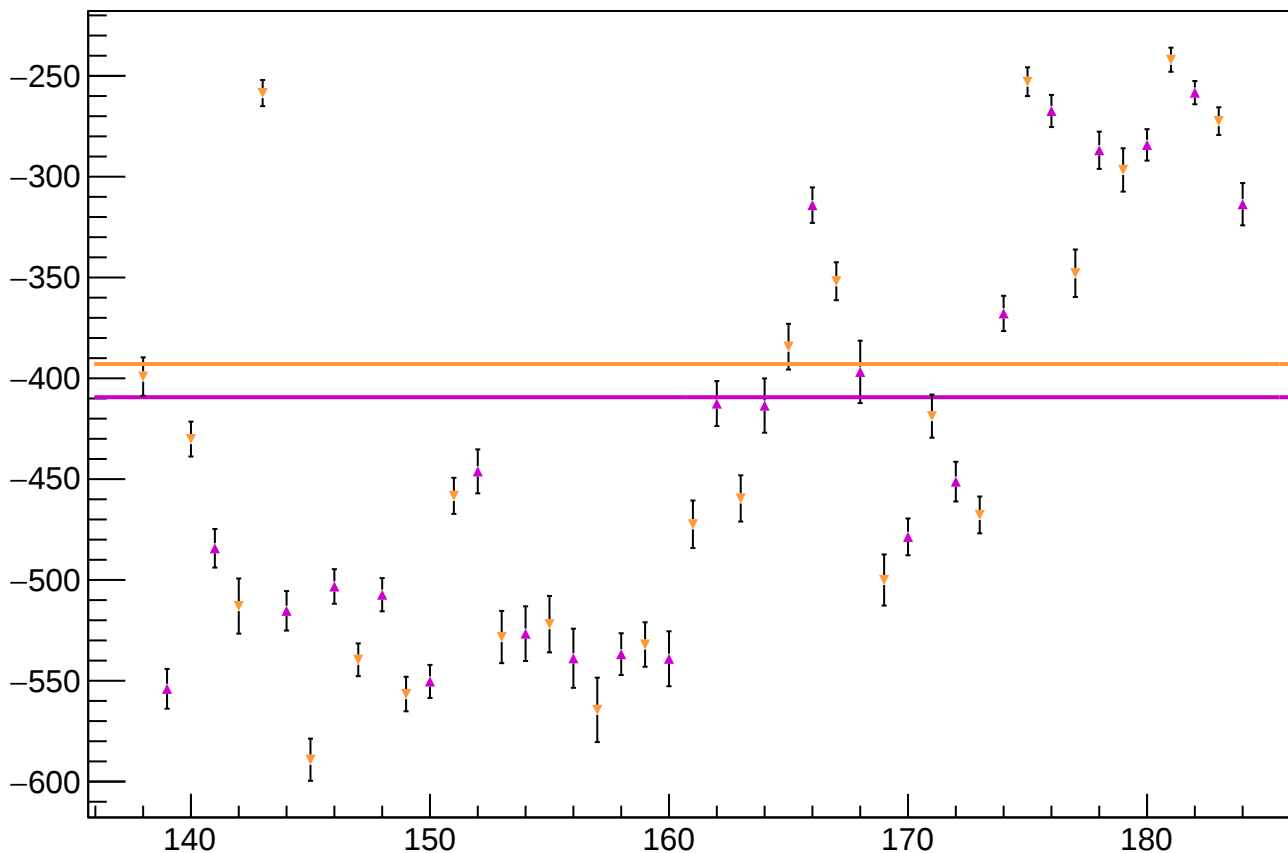
Left In:  $0.448 \pm 0.015$   $\chi^2/\text{NDF}: 50533.6/22$

+ sign  $1.508 \pm 0.014$   $\chi^2/\text{NDF}: 485738.0/40$

All:  $1.128 \pm 0.010$   $\chi^2/\text{NDF}: 1046132.8/81$

- sign  $0.745 \pm 0.015$   $\chi^2/\text{NDF}: 559012.5/40$

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -392.920 $\pm$ 1.914  $\chi^2$ /NDF: 3762.2/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

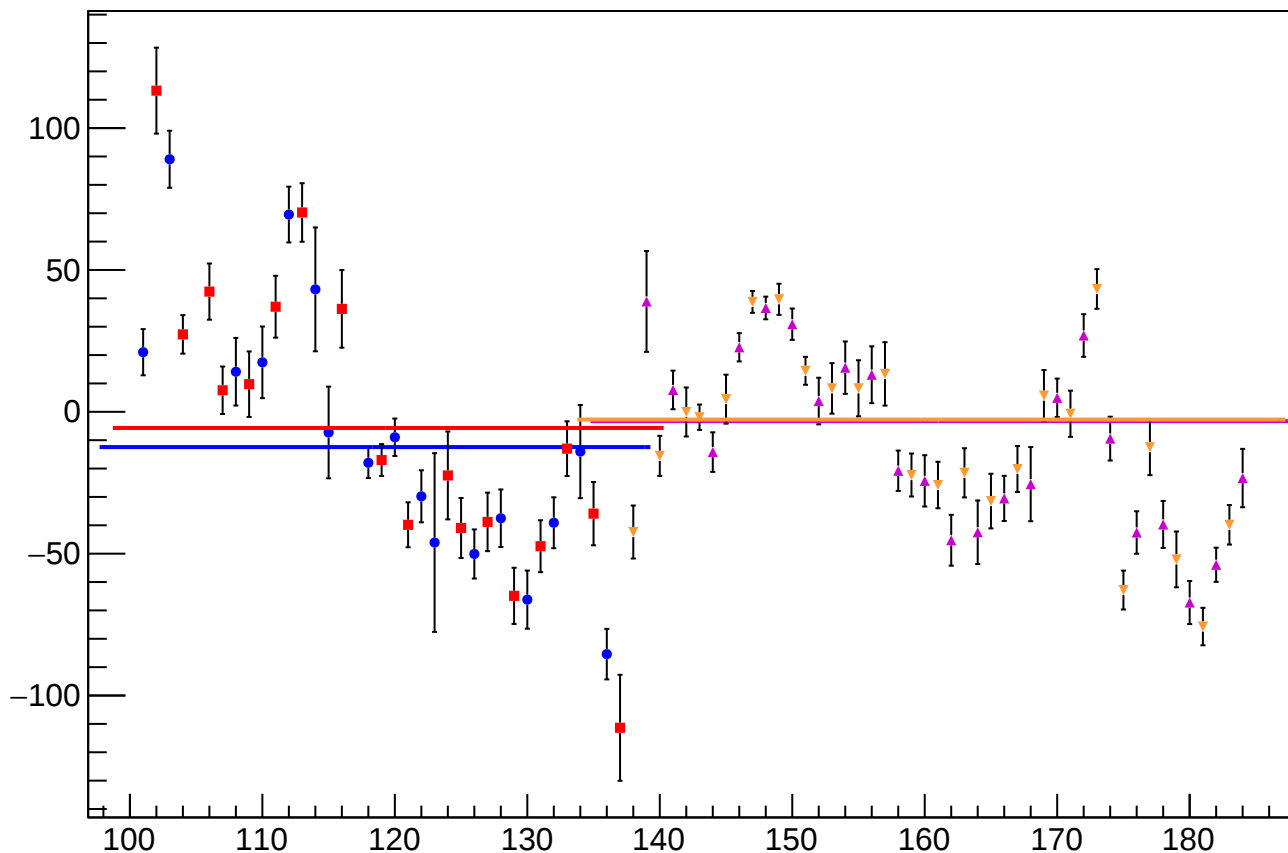
Left In: -409.377 $\pm$ 1.971  $\chi^2$ /NDF: 3096.1/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -400.907 $\pm$ 1.373  $\chi^2$ /NDF: 6894.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-12.431 \pm 2.315$   $\chi^2/\text{NDF}$ : 340.2/16

Left Out:  $-2.724 \pm 1.433$   $\chi^2/\text{NDF}$ : 546.2/23

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

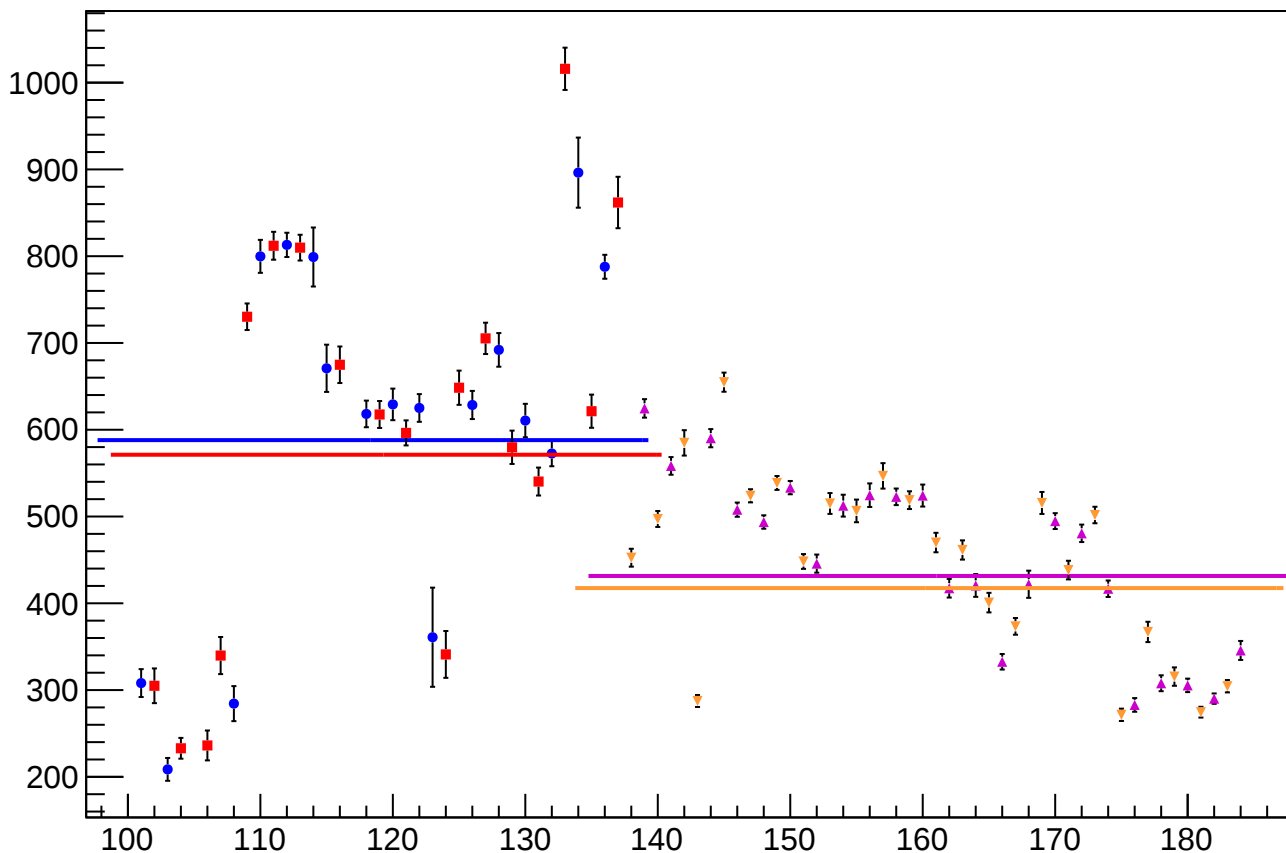
Left In:  $-3.290 \pm 1.517$   $\chi^2/\text{NDF}$ : 454.5/22

+ sign  $-5.414 \pm 1.219$   $\chi^2/\text{NDF}$ : 899.1/40

All:  $-4.746 \pm 0.876$   $\chi^2/\text{NDF}$ : 1688.7/81

- sign  $-4.032 \pm 1.260$   $\chi^2/\text{NDF}$ : 788.9/40

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 588.034 $\pm$ 4.329  $\chi^2$ /NDF: 2127.7/16

Left Out: 417.540 $\pm$ 1.921  $\chi^2$ /NDF: 3279.1/23

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

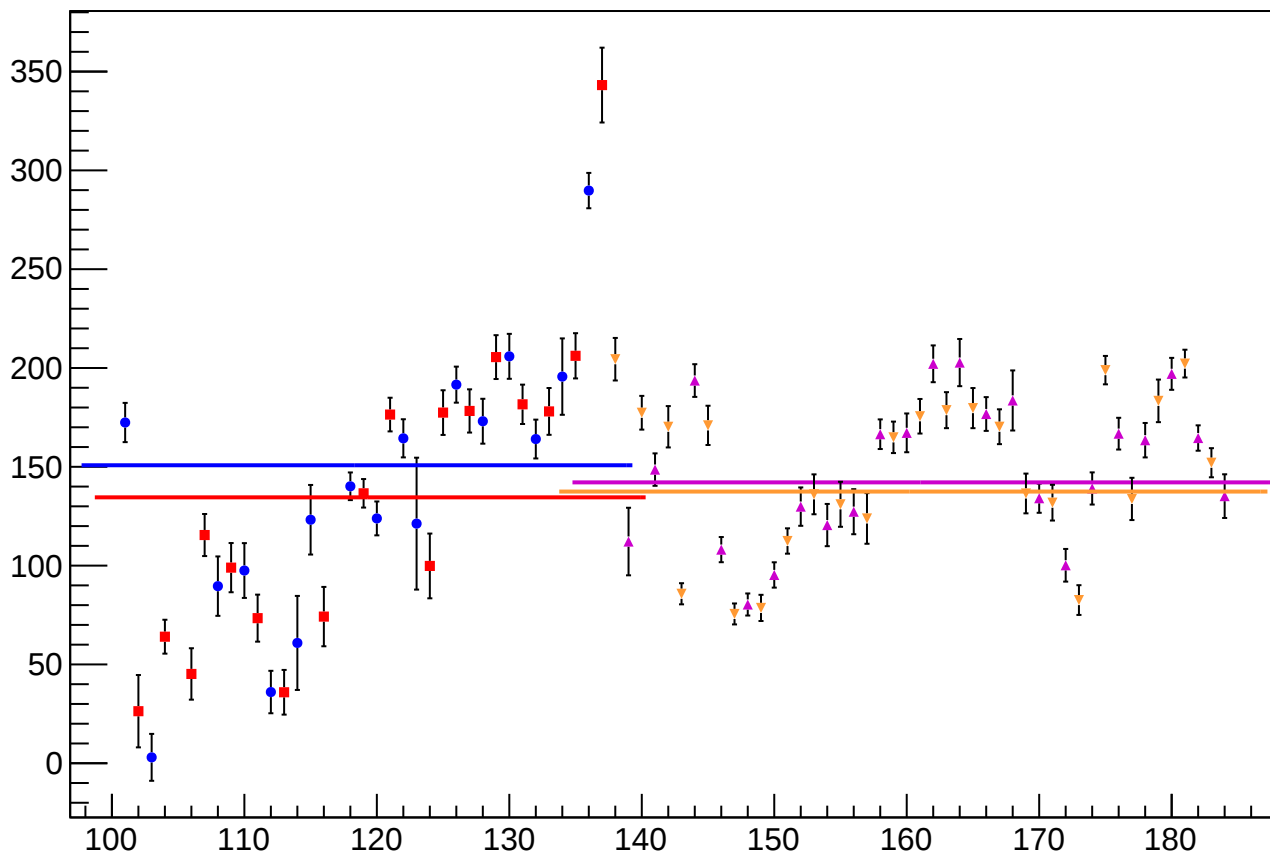
Left In: 431.487 $\pm$ 1.964  $\chi^2$ /NDF: 2897.1/22

+ sign 445.584 $\pm$ 1.756  $\chi^2$ /NDF: 6702.9/40

All: 451.250 $\pm$ 1.248  $\chi^2$ /NDF: 13227.1/81

- sign 457.045 $\pm$ 1.775  $\chi^2$ /NDF: 6503.2/40

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $150.785 \pm 2.679$   $\chi^2/\text{NDF}: 633.1/16$

Left Out:  $137.476 \pm 1.663$   $\chi^2/\text{NDF}: 723.4/23$

Right Out:  $134.549 \pm 2.619$   $\chi^2/\text{NDF}: 576.2/17$

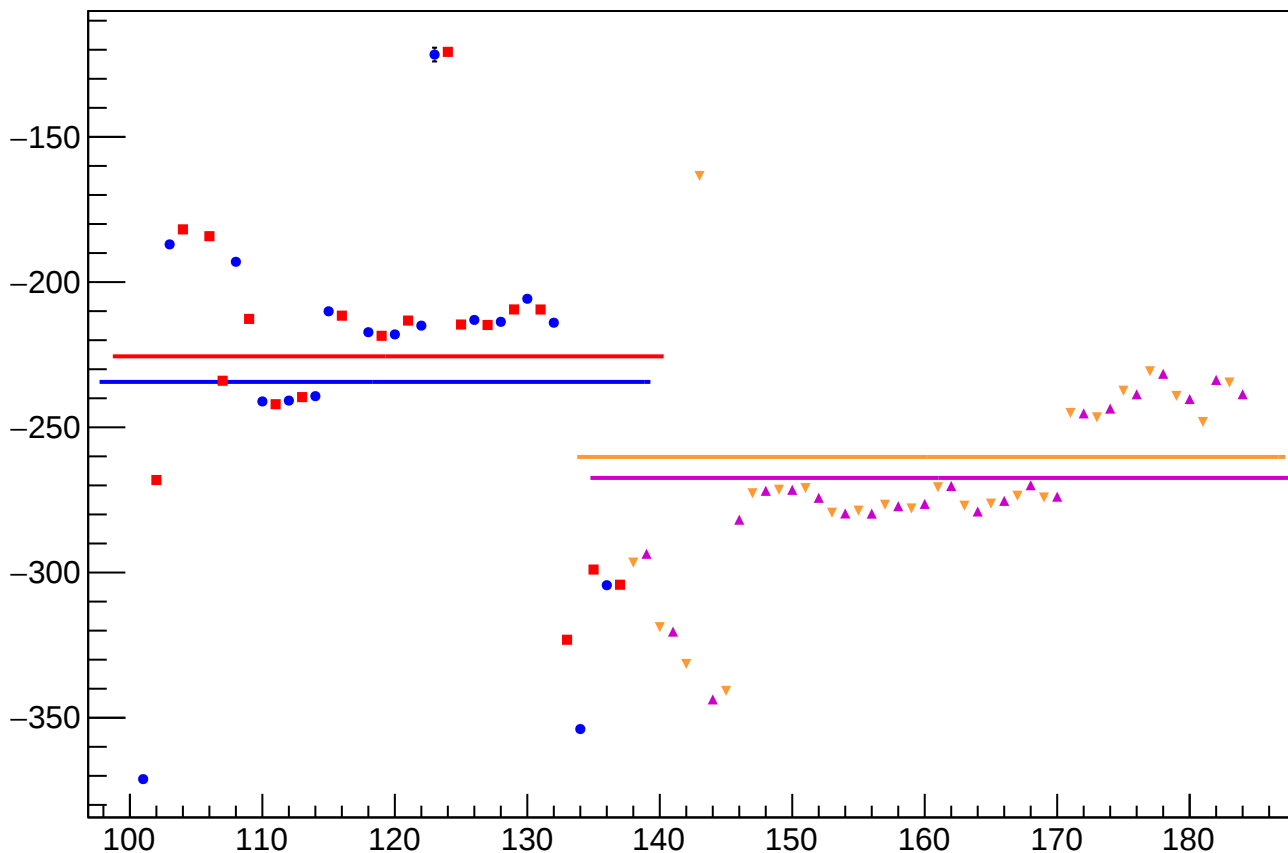
Left In:  $142.123 \pm 1.740$   $\chi^2/\text{NDF}: 463.8/22$

+ sign  $141.178 \pm 1.413$   $\chi^2/\text{NDF}: 1374.3/40$

All:  $140.508 \pm 1.012$   $\chi^2/\text{NDF}: 2420.6/81$

- sign  $139.804 \pm 1.449$   $\chi^2/\text{NDF}: 1045.8/40$

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -234.360+/-0.148  $\chi^2/\text{NDF}$ : 145159.1/16

Left Out: -260.198+/-0.080  $\chi^2/\text{NDF}$ : 235534.6/23

Right Out: -225.561+/-0.142  $\chi^2/\text{NDF}$ : 92955.0/17

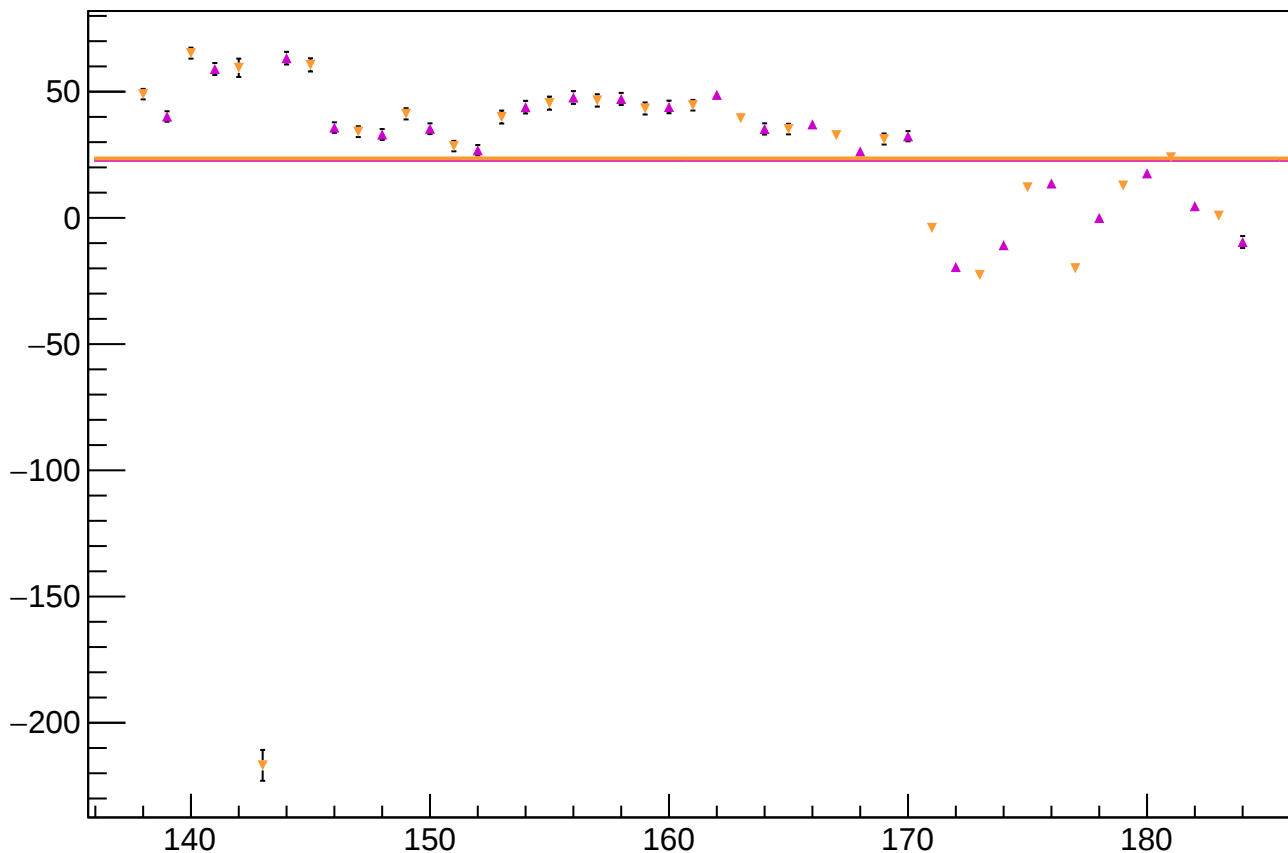
Left In: -267.416+/-0.081  $\chi^2/\text{NDF}$ : 98892.0/22

+ sign -254.386+/-0.070  $\chi^2/\text{NDF}$ : 404164.6/40

All: -255.724+/-0.050  $\chi^2/\text{NDF}$ : 662199.7/81

- sign -257.067+/-0.071  $\chi^2/\text{NDF}$ : 257312.0/40

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 23.539+/-0.402  $\chi^2/\text{NDF}$ : 4620.7/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

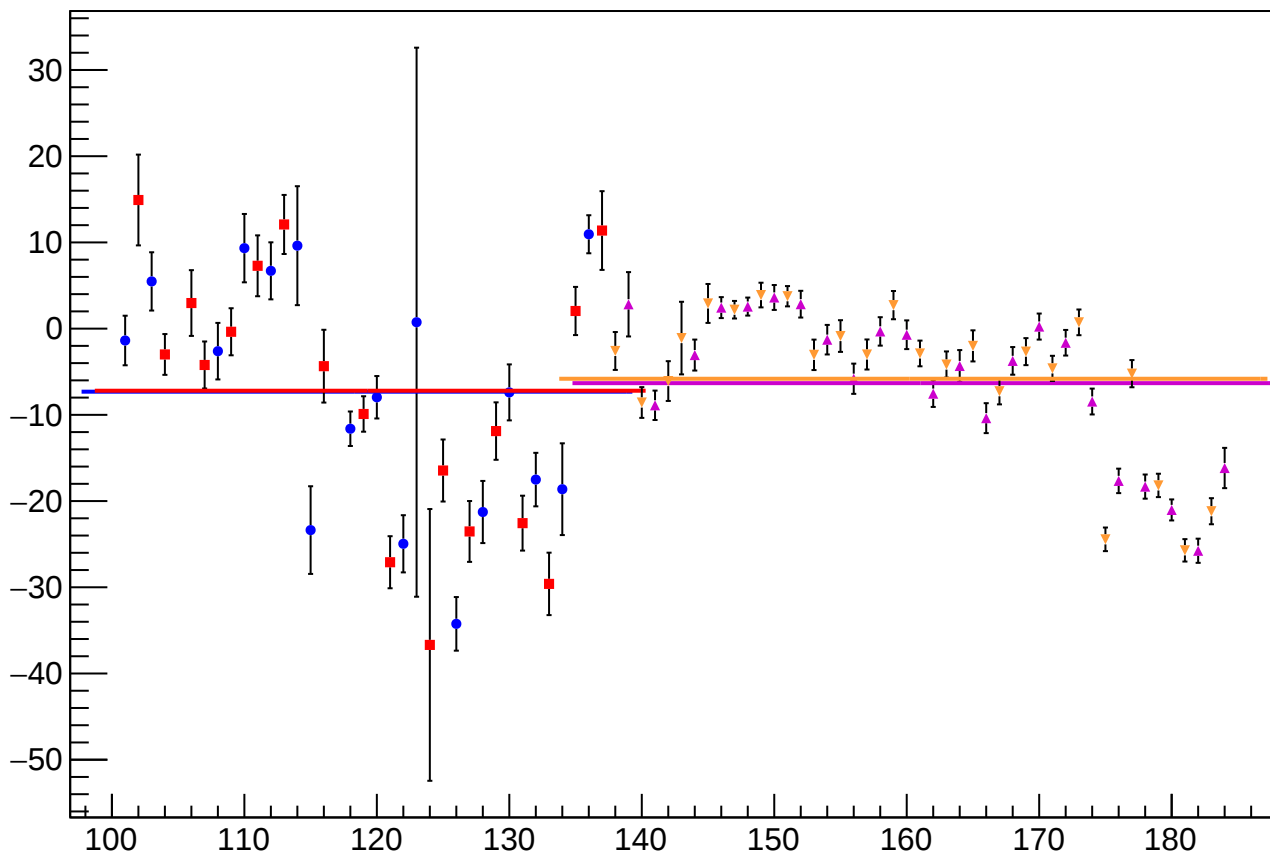
Left In: 23.019+/-0.400  $\chi^2/\text{NDF}$ : 2819.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.278+/-0.284  $\chi^2/\text{NDF}$ : 7441.4/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.313 \pm 0.780$   $\chi^2/\text{NDF}$ : 279.1/16

Left Out:  $-5.813 \pm 0.318$   $\chi^2/\text{NDF}$ : 874.6/23

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

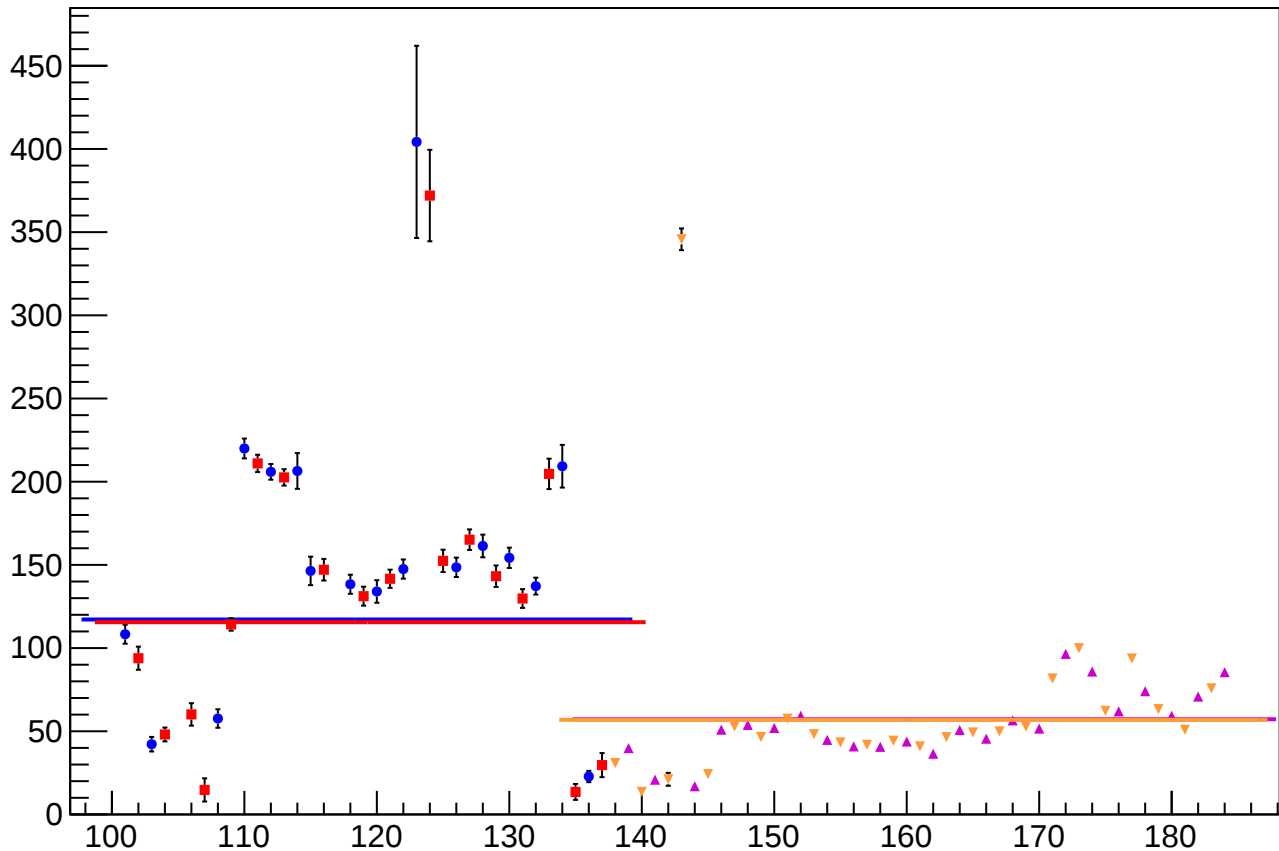
Left In:  $-6.323 \pm 0.320$   $\chi^2/\text{NDF}$ : 784.4/22

+ sign  $-6.026 \pm 0.294$   $\chi^2/\text{NDF}$ : 1156.9/40

All:  $-6.240 \pm 0.208$   $\chi^2/\text{NDF}$ : 2195.5/81

- sign  $-6.455 \pm 0.295$   $\chi^2/\text{NDF}$ : 1037.6/40

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.177+/-1.411  $\chi^2/\text{NDF}$ : 2159.6/16

Left Out: 56.889+/-0.401  $\chi^2/\text{NDF}$ : 4166.5/23

Right Out: 115.556+/-1.363  $\chi^2/\text{NDF}$ : 2149.2/17

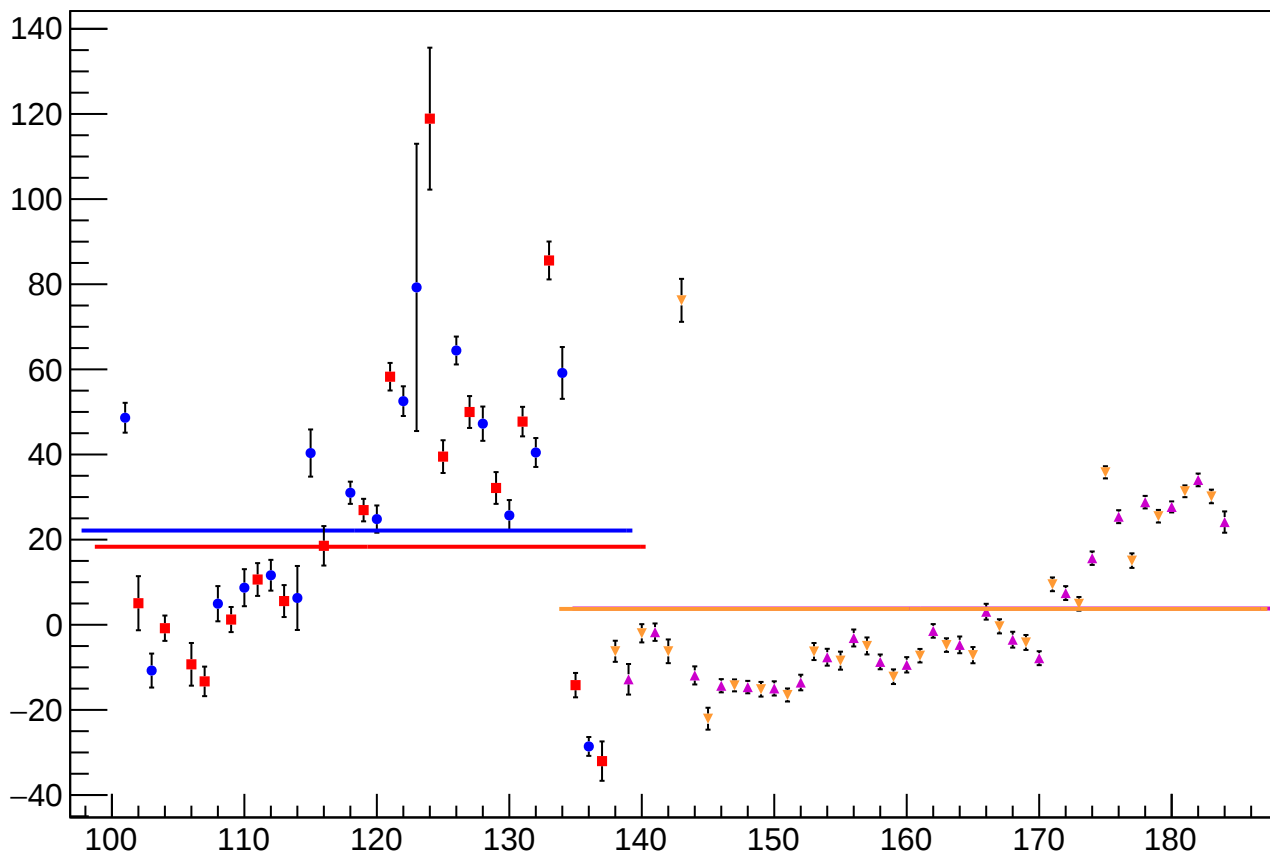
Left In: 57.226+/-0.398  $\chi^2/\text{NDF}$ : 1860.6/22

+ sign 61.394+/-0.386  $\chi^2/\text{NDF}$ : 8014.4/40

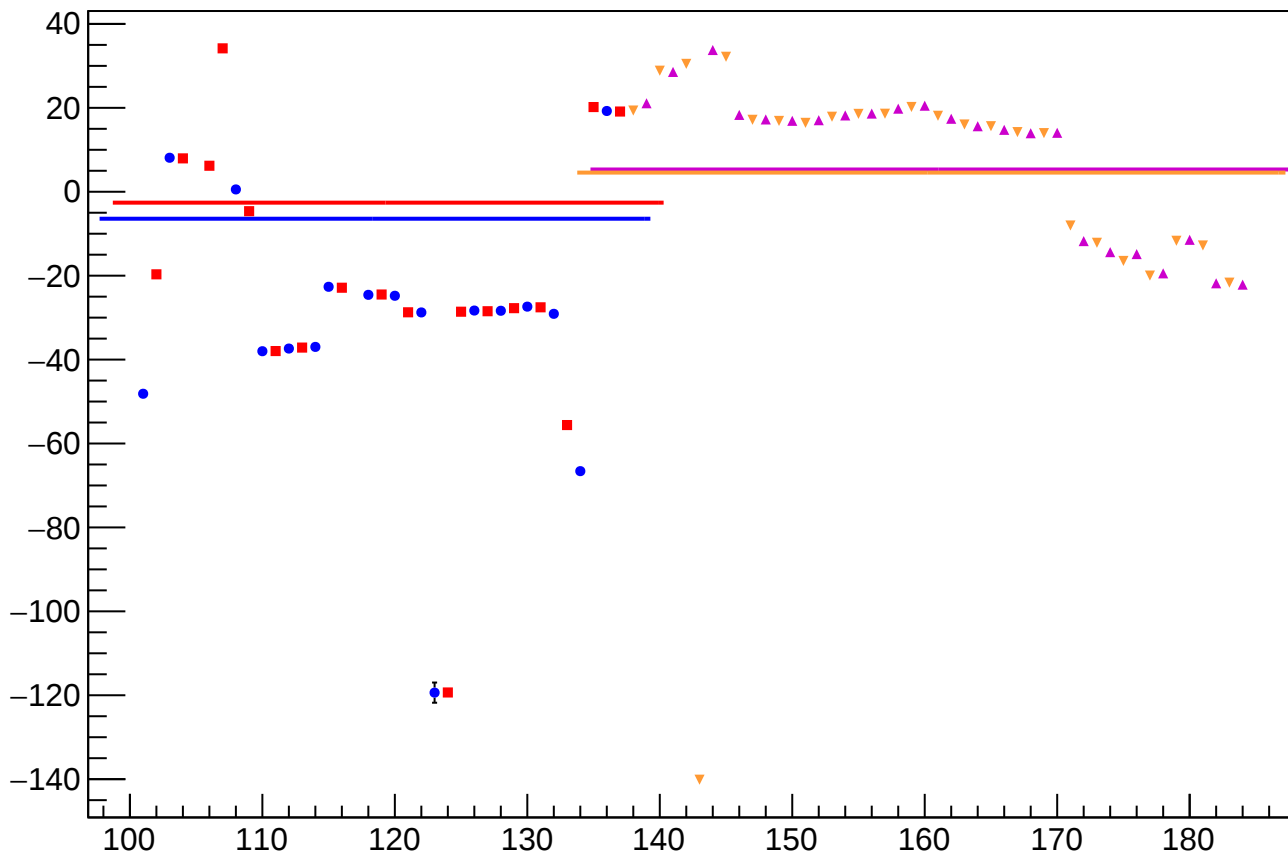
All: 61.604+/-0.271  $\chi^2/\text{NDF}$ : 13711.9/81

- sign 61.809+/-0.382  $\chi^2/\text{NDF}$ : 5696.9/40

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-6.428 \pm 0.046$   $\chi^2/\text{NDF}$ : 265170.6/16

Left Out:  $4.568 \pm 0.017$   $\chi^2/\text{NDF}$ : 1334748.6/23

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}$ : 263579.4/17

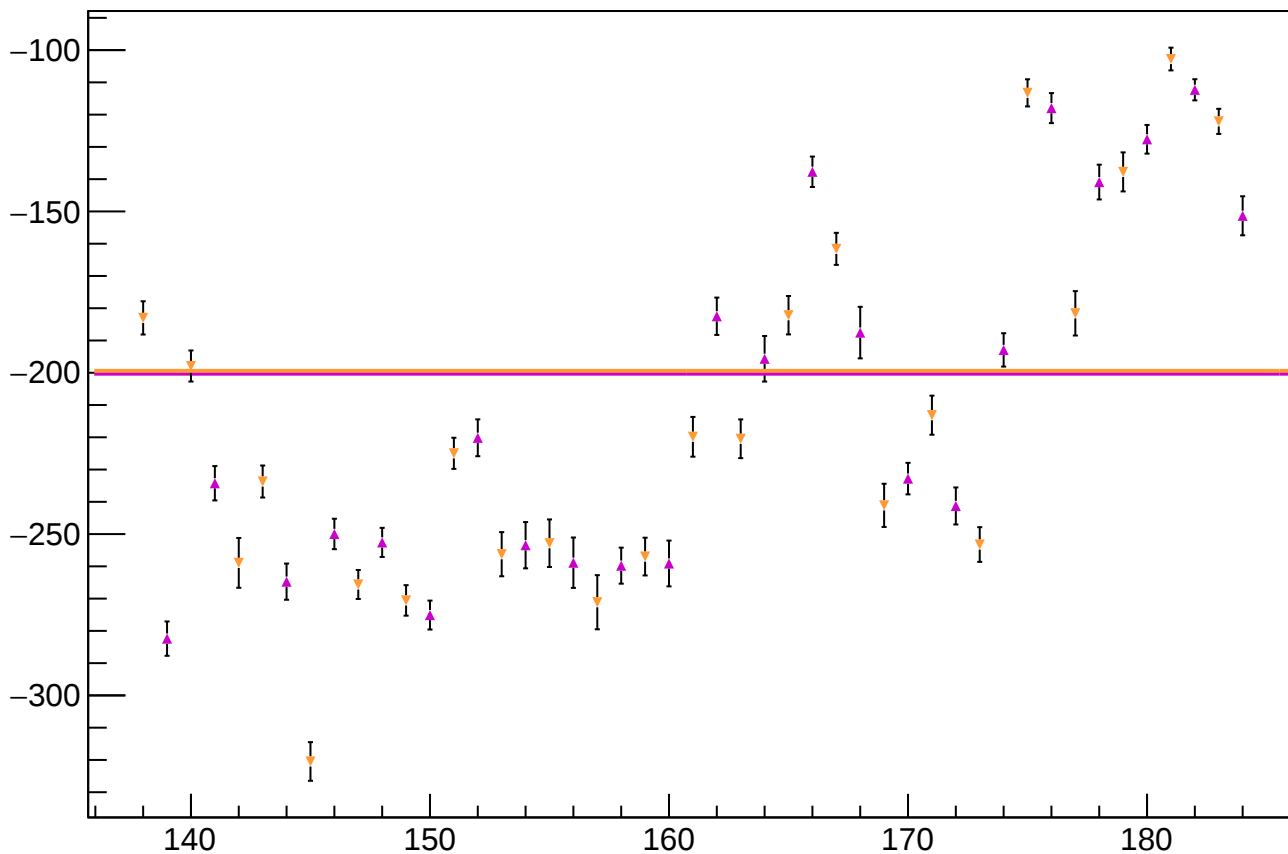
Left In:  $5.305 \pm 0.016$   $\chi^2/\text{NDF}$ : 1089610.2/22

+ sign  $3.319 \pm 0.016$   $\chi^2/\text{NDF}$ : 1650102.6/40

All:  $3.871 \pm 0.011$   $\chi^2/\text{NDF}$ : 3032208.5/81

- sign  $4.411 \pm 0.015$   $\chi^2/\text{NDF}$ : 1379621.2/40

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -199.404+/-1.088  $\chi^2/\text{NDF}$ : 3199.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

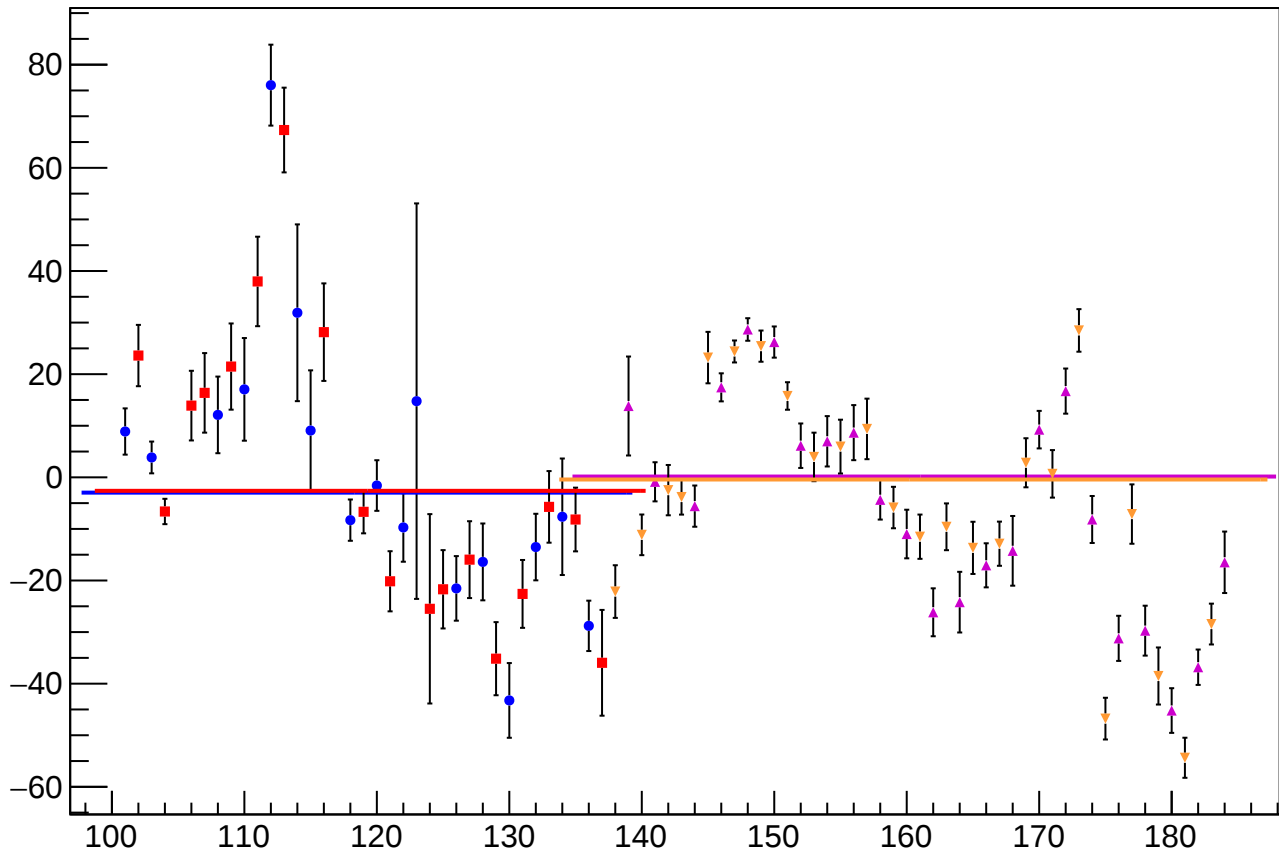
Left In: -200.276+/-1.093  $\chi^2/\text{NDF}$ : 3013.8/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -199.838+/-0.771  $\chi^2/\text{NDF}$ : 6213.9/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.964 \pm 1.452$   $\chi^2/\text{NDF}$ : 203.5/16

Left Out:  $-0.419 \pm 0.812$   $\chi^2/\text{NDF}$ : 800.6/23

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

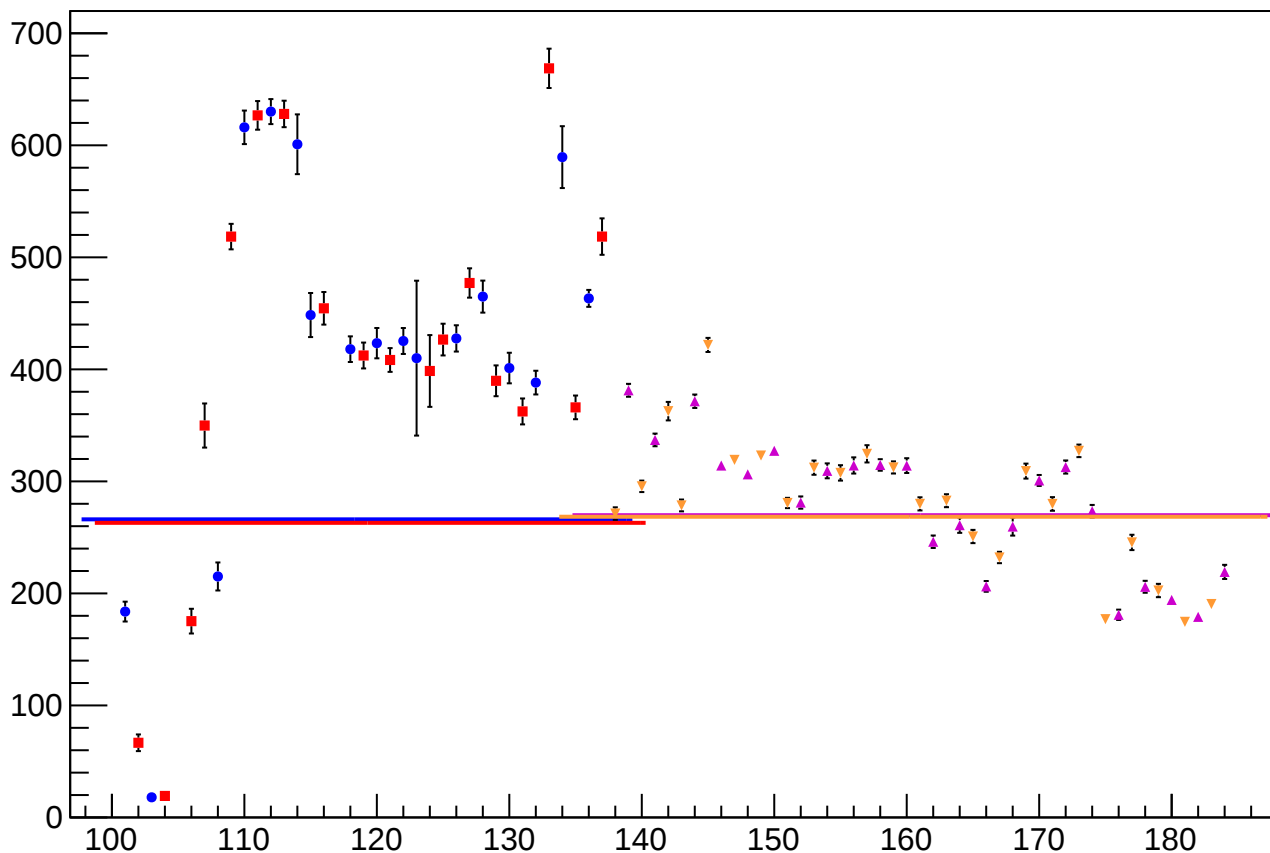
Left In:  $0.153 \pm 0.836$   $\chi^2/\text{NDF}$ : 719.6/22

+ sign  $-1.026 \pm 0.709$   $\chi^2/\text{NDF}$ : 1006.5/40

All:  $-0.803 \pm 0.504$   $\chi^2/\text{NDF}$ : 1939.7/81

- sign  $-0.576 \pm 0.718$   $\chi^2/\text{NDF}$ : 933.0/40

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 268.444 $\pm$ 1.087  $\chi^2$ /NDF:3117.3/23

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

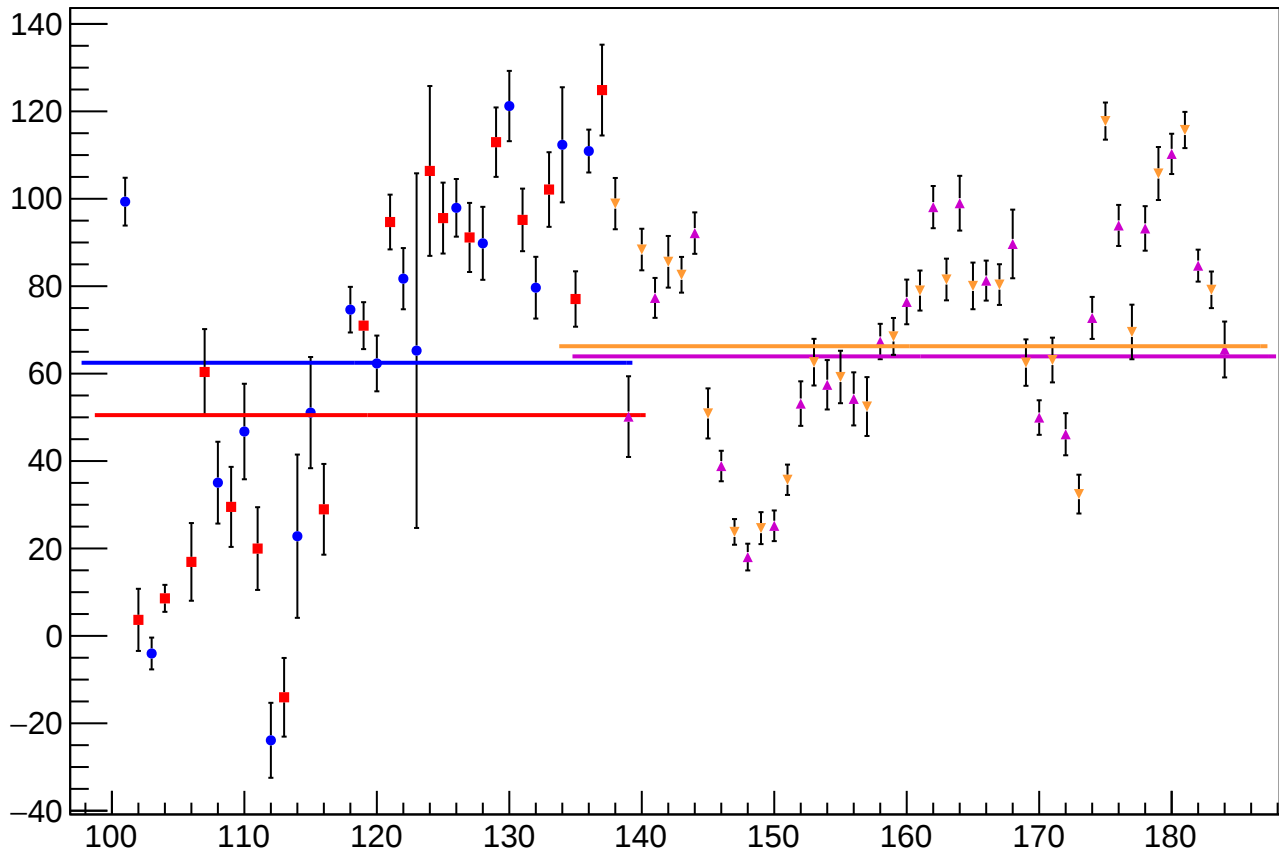
Left In: 269.798 $\pm$ 1.087  $\chi^2$ /NDF:3234.9/22

+ sign 268.068 $\pm$ 0.995  $\chi^2$ /NDF: 10762.1/40

All: 268.381 $\pm$ 0.704  $\chi^2$ /NDF: 22175.6/81

- sign 268.693 $\pm$ 0.995  $\chi^2$ /NDF: 11413.3/40

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 62.485 $\pm$ 1.681  $\chi^2/\text{NDF}$ : 720.8/16

Left Out: 66.268 $\pm$ 0.942  $\chi^2/\text{NDF}$ : 943.6/23

Right Out: 50.506 $\pm$ 1.644  $\chi^2/\text{NDF}$ : 650.6/17

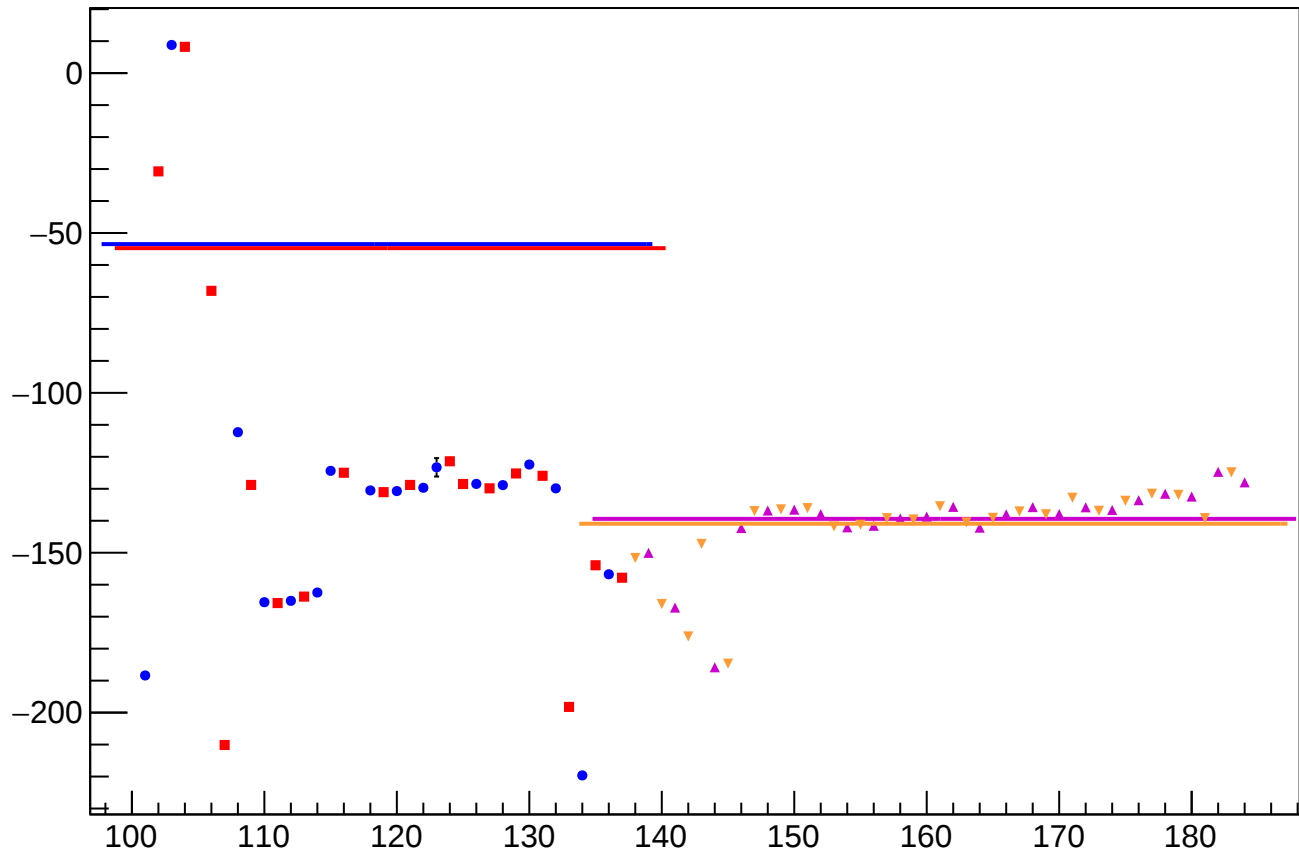
Left In: 63.944 $\pm$ 0.961  $\chi^2/\text{NDF}$ : 803.4/22

+ sign 65.364 $\pm$ 0.822  $\chi^2/\text{NDF}$ : 1668.3/40

All: 62.968 $\pm$ 0.584  $\chi^2/\text{NDF}$ : 3189.2/81

- sign 60.525 $\pm$ 0.829  $\chi^2/\text{NDF}$ : 1503.8/40

# reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-53.481 \pm 0.070$   $\chi^2/\text{NDF}$ : 1228730.5/16

Left Out:  $-140.930 \pm 0.045$   $\chi^2/\text{NDF}$ : 73823.5/23

Right Out:  $-54.748 \pm 0.072$   $\chi^2/\text{NDF}$ : 952446.3/17

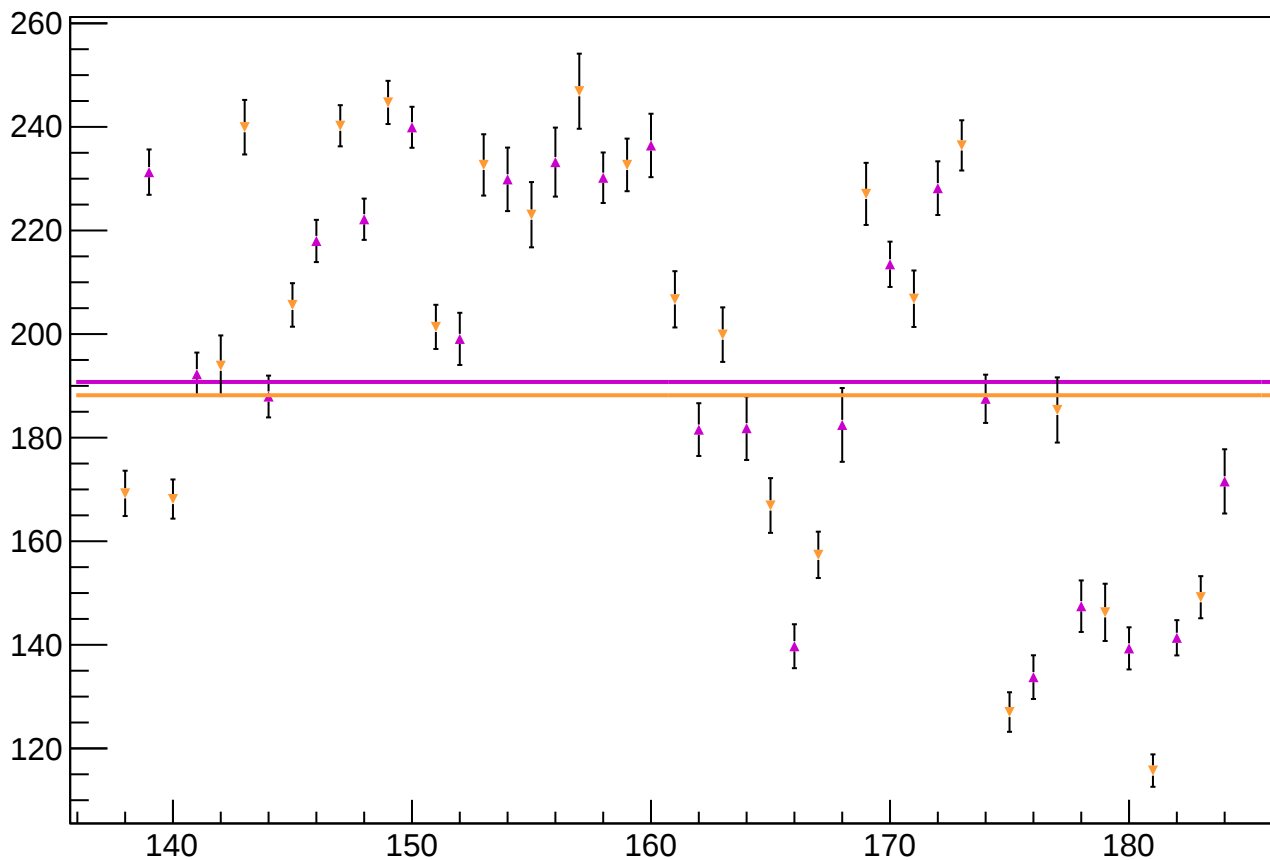
Left In:  $-139.406 \pm 0.045$   $\chi^2/\text{NDF}$ : 62878.4/22

+ sign  $-115.470 \pm 0.038$   $\chi^2/\text{NDF}$ : 2399146.2/40

All:  $-115.640 \pm 0.027$   $\chi^2/\text{NDF}$ : 4408068.8/81

- sign  $-115.812 \pm 0.038$   $\chi^2/\text{NDF}$ : 2008882.1/40

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 188.189+/-0.962  $\chi^2/\text{NDF}$ : 1930.9/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

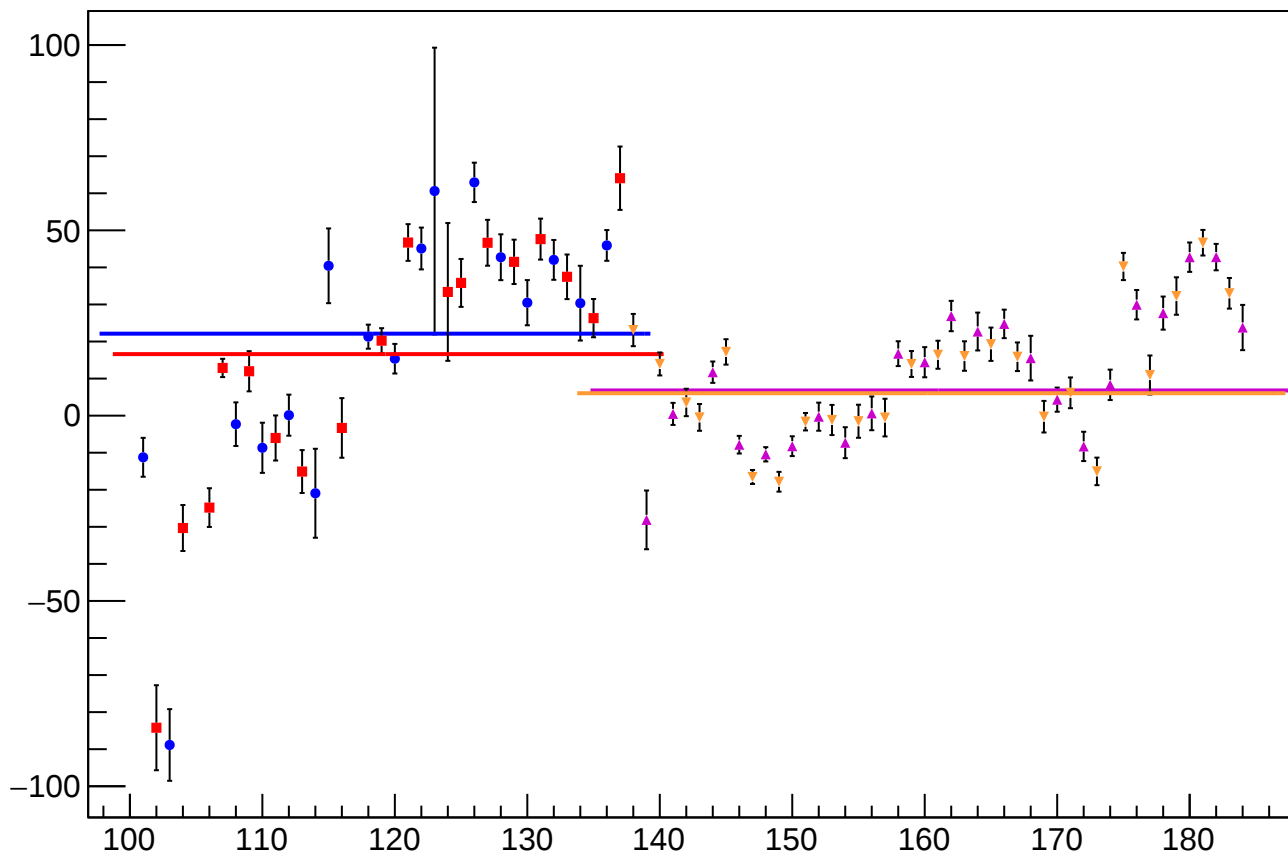
Left In: 190.753+/-0.971  $\chi^2/\text{NDF}$ : 1421.8/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.459+/-0.683  $\chi^2/\text{NDF}$ : 3356.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 22.119 $\pm$ 1.376  $\chi^2$ /NDF: 382.0/16

Left Out: 6.050 $\pm$ 0.716  $\chi^2$ /NDF: 642.3/23

Right Out: 16.602 $\pm$ 1.229  $\chi^2$ /NDF: 416.8/17

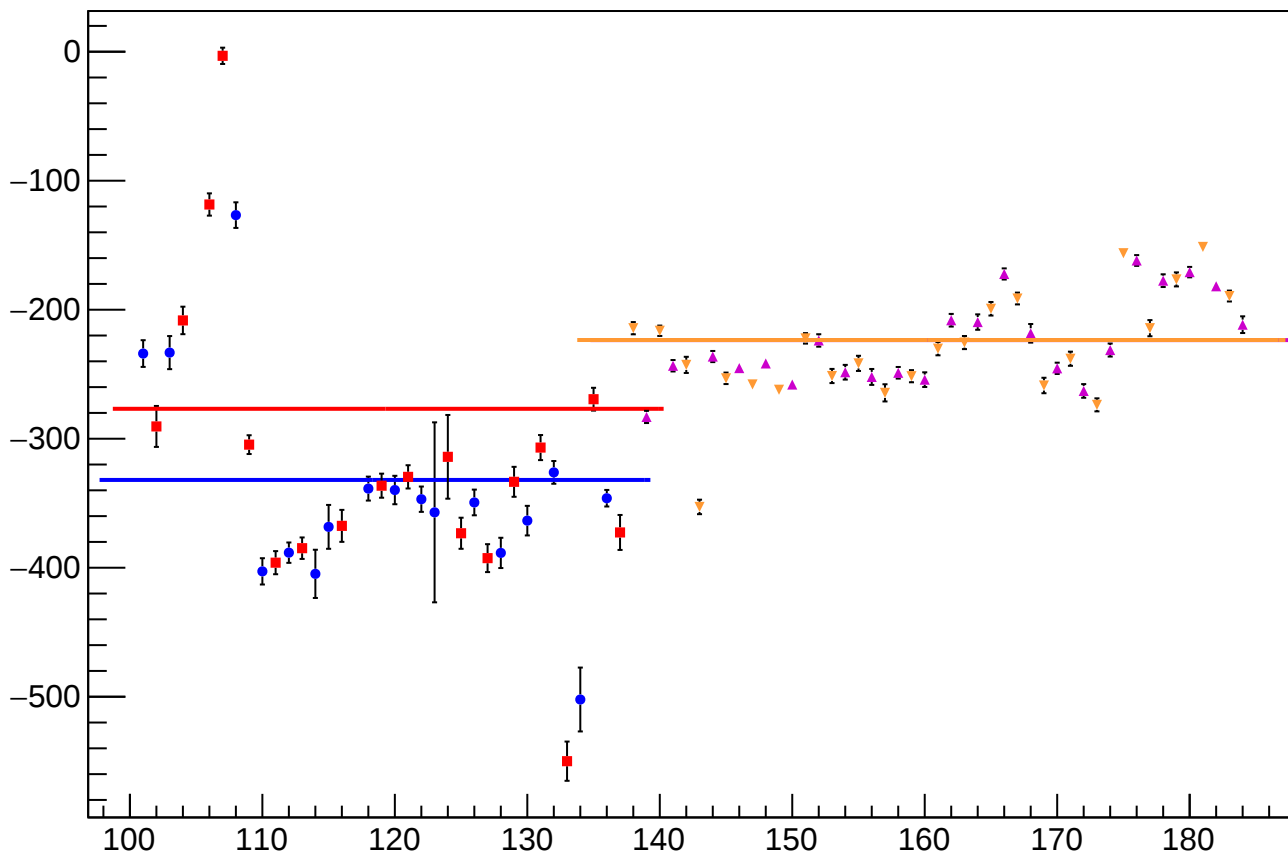
Left In: 6.797 $\pm$ 0.735  $\chi^2$ /NDF: 525.8/22

+ sign 9.470 $\pm$ 0.635  $\chi^2$ /NDF: 1131.6/40

All: 9.424 $\pm$ 0.447  $\chi^2$ /NDF: 2121.1/81

- sign 9.379 $\pm$ 0.631  $\chi^2$ /NDF: 989.6/40

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -331.952 $\pm$ 2.567  $\chi^2$ /NDF: 785.6/16

Left Out: -223.485 $\pm$ 0.962  $\chi^2$ /NDF: 2042.7/23

Right Out: -276.804 $\pm$ 2.329  $\chi^2$ /NDF: 3330.4/17

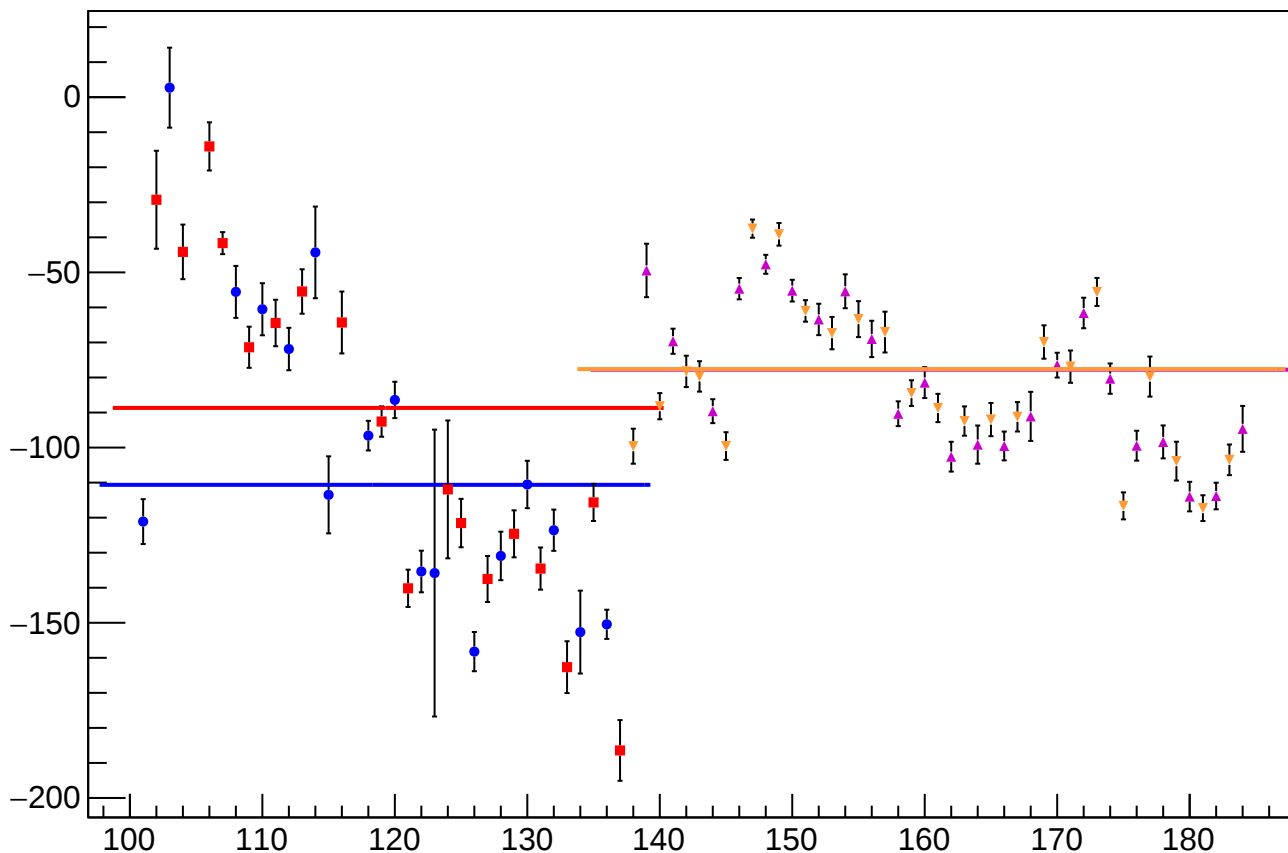
Left In: -223.554 $\pm$ 0.966  $\chi^2$ /NDF: 1286.5/22

+ sign -236.833 $\pm$ 0.901  $\chi^2$ /NDF: 4393.7/40

All: -234.071 $\pm$ 0.634  $\chi^2$ /NDF: 9475.1/81

- sign -231.362 $\pm$ 0.892  $\chi^2$ /NDF: 5062.8/40

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-110.633 \pm 1.581$   $\chi^2/\text{NDF}$ : 508.9/16

Left Out:  $-77.600 \pm 0.831$   $\chi^2/\text{NDF}$ : 836.8/23

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}$ : 964.0/17

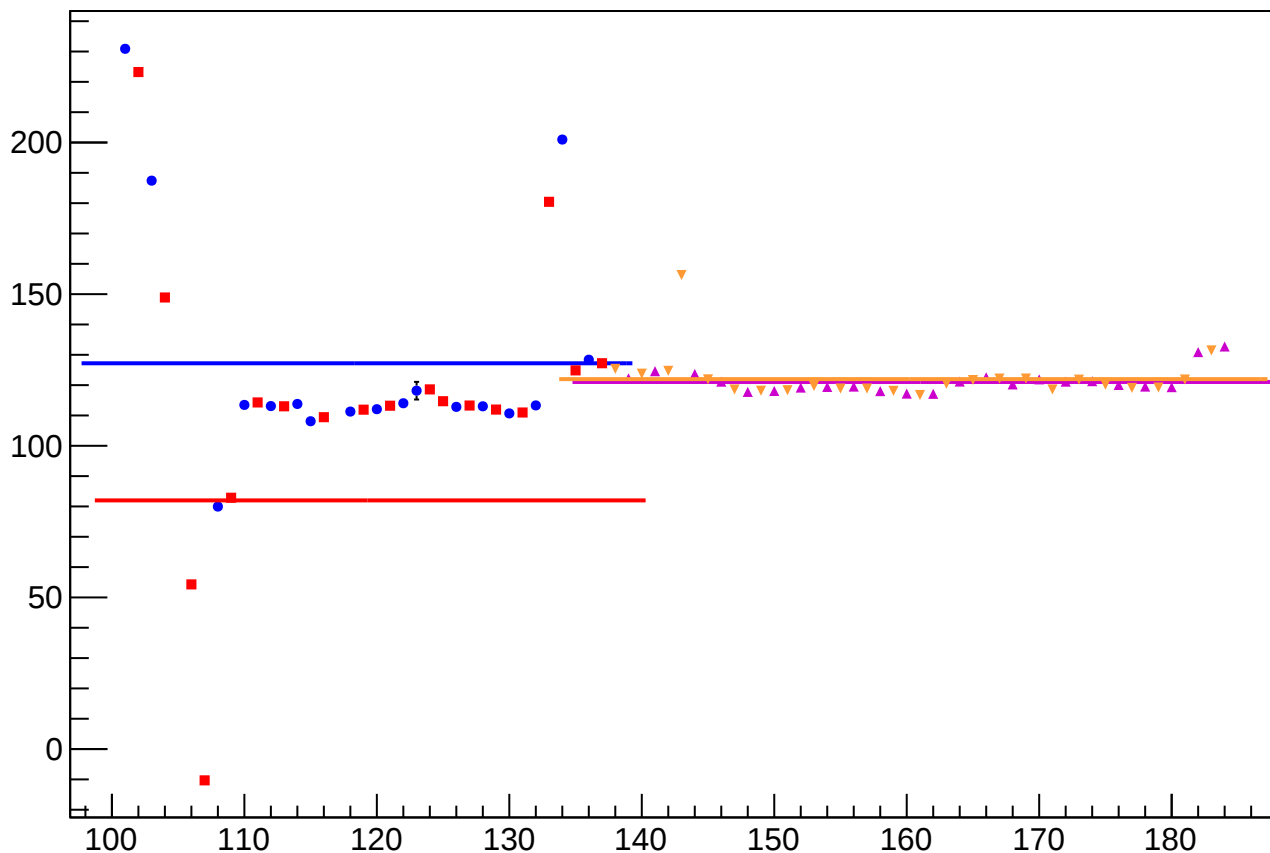
Left In:  $-77.777 \pm 0.847$   $\chi^2/\text{NDF}$ : 624.5/22

+ sign  $-84.751 \pm 0.736$   $\chi^2/\text{NDF}$ : 1687.7/40

All:  $-82.654 \pm 0.518$   $\chi^2/\text{NDF}$ : 3335.1/81

- sign  $-80.595 \pm 0.729$   $\chi^2/\text{NDF}$ : 1631.3/40

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 121.987 $\pm$ 0.040  $\chi^2$ /NDF: 29808.3/23

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

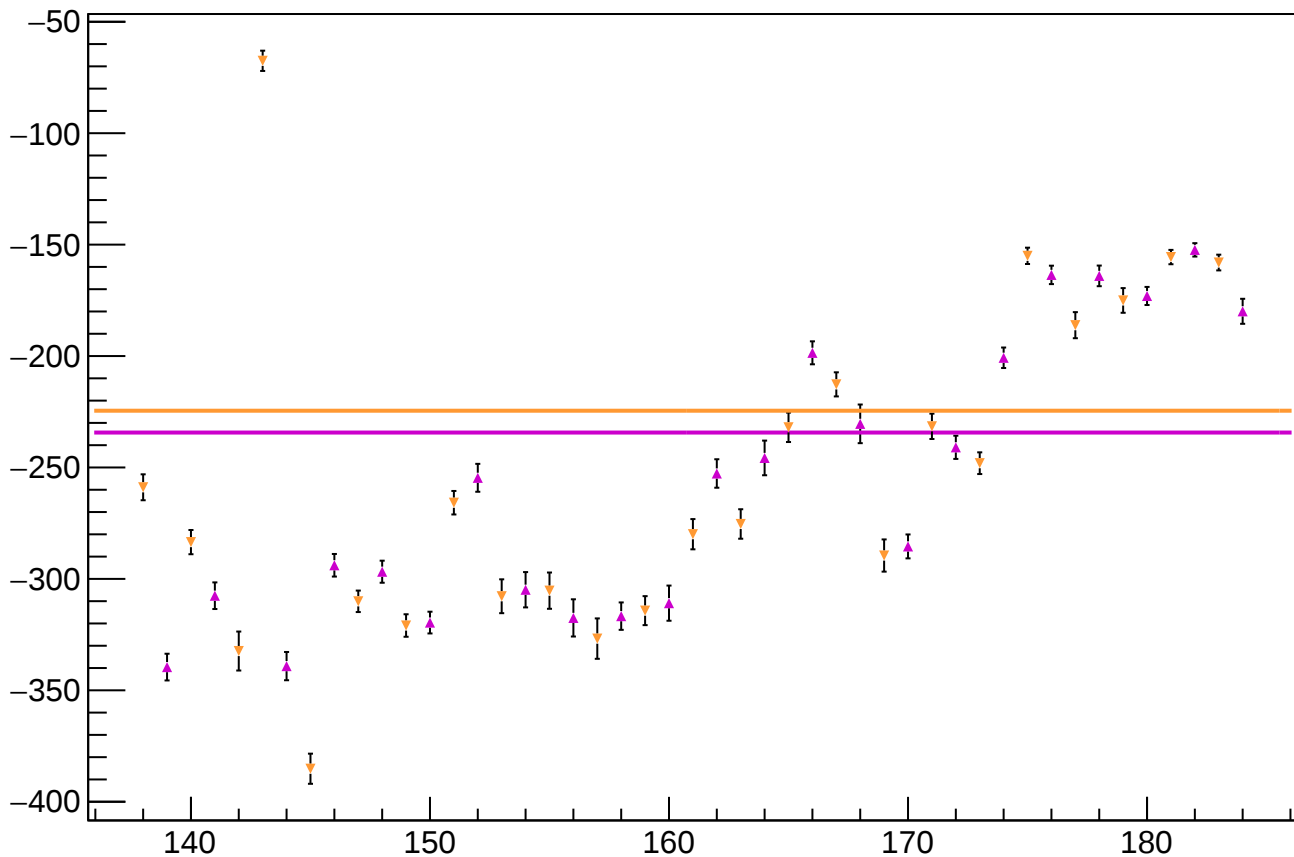
Left In: 121.045 $\pm$ 0.040  $\chi^2$ /NDF: 7903.5/22

+ sign 122.852 $\pm$ 0.036  $\chi^2$ /NDF: 220693.6/40

All: 117.562 $\pm$ 0.025  $\chi^2$ /NDF: 1229443.4/81

- sign 112.630 $\pm$ 0.035  $\chi^2$ /NDF: 967692.8/40

# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -224.530+/-1.091  $\chi^2/\text{NDF}$ : 4870.8/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

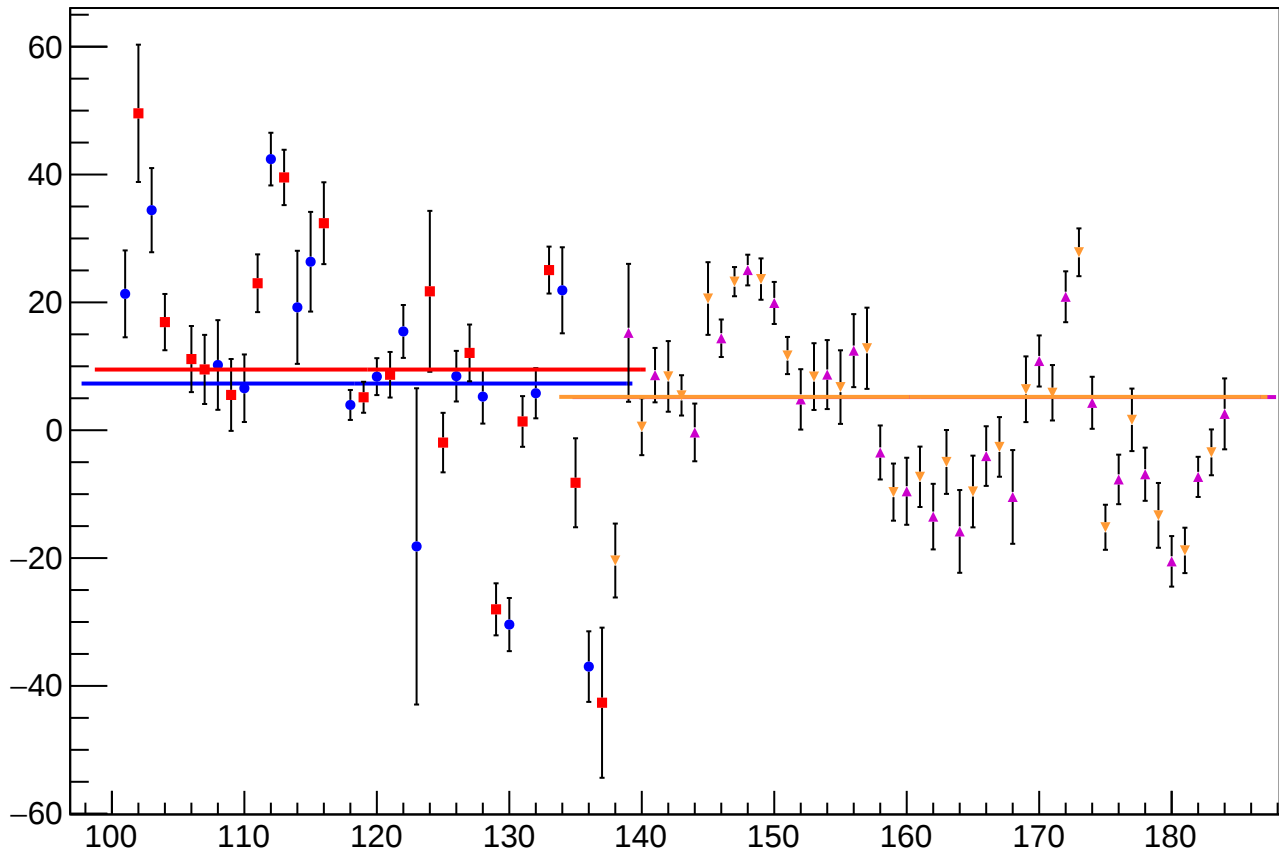
Left In: -234.328+/-1.104  $\chi^2/\text{NDF}$ : 3591.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -229.370+/-0.776  $\chi^2/\text{NDF}$ : 8502.6/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.303 \pm 1.086$   $\chi^2/\text{NDF}$ : 260.6/16

Left Out:  $5.216 \pm 0.835$   $\chi^2/\text{NDF}$ : 297.7/23

Right Out:  $9.493 \pm 1.073$   $\chi^2/\text{NDF}$ : 231.1/17

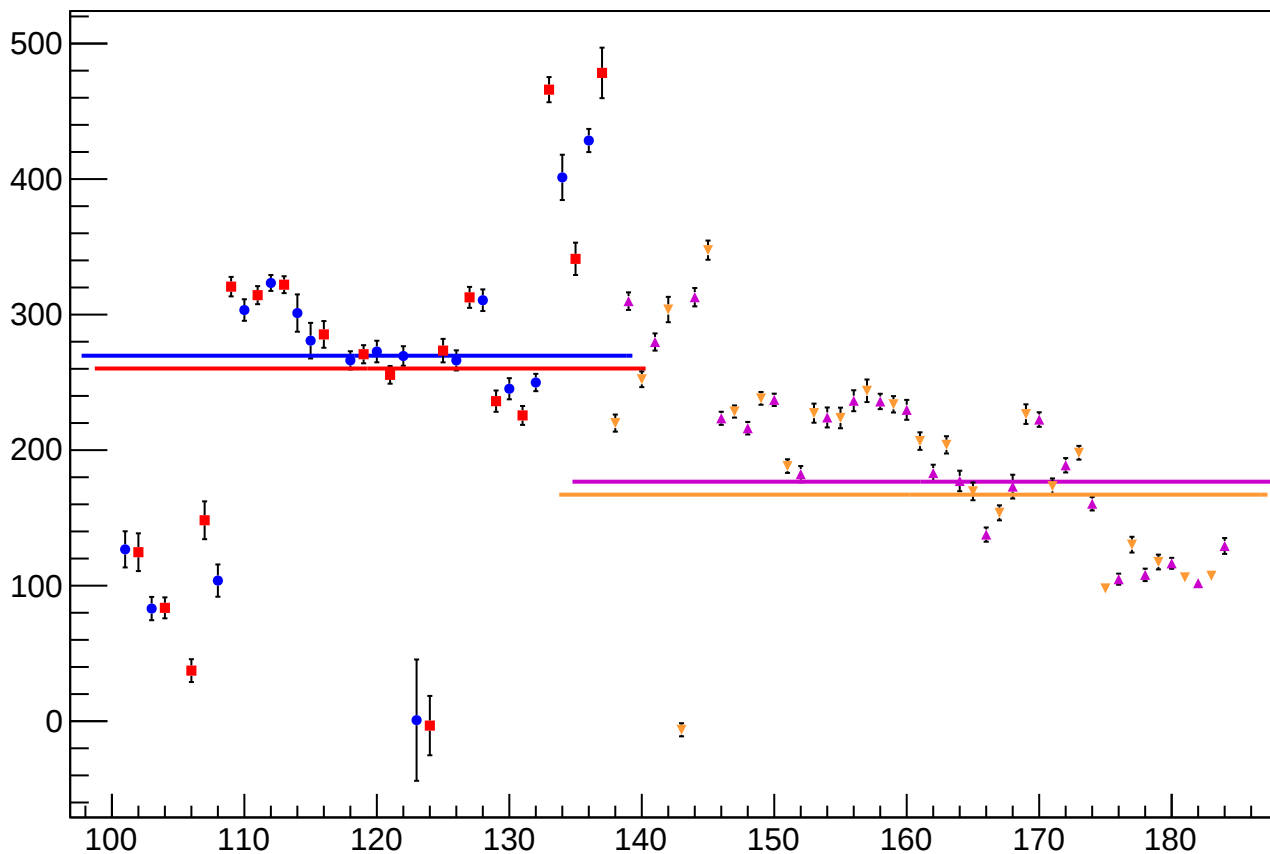
Left In:  $5.186 \pm 0.867$   $\chi^2/\text{NDF}$ : 243.2/22

+ sign  $5.991 \pm 0.662$   $\chi^2/\text{NDF}$ : 560.7/40

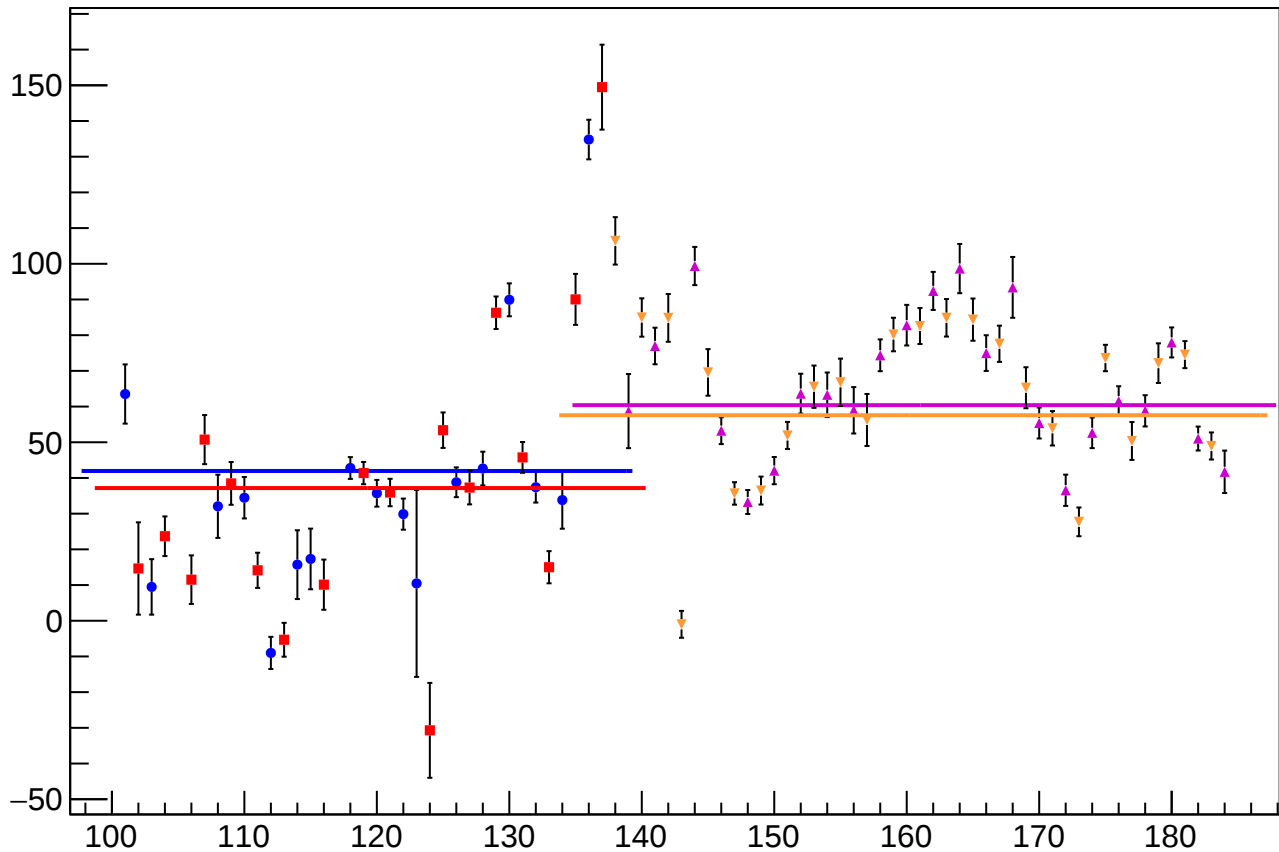
All:  $6.430 \pm 0.472$   $\chi^2/\text{NDF}$ : 1045.6/81

- sign  $6.886 \pm 0.674$   $\chi^2/\text{NDF}$ : 484.0/40

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 41.959 $\pm$ 1.258  $\chi^2$ /NDF: 574.2/16

Left Out: 57.569 $\pm$ 0.961  $\chi^2$ /NDF: 646.2/23

Right Out: 37.171 $\pm$ 1.236  $\chi^2$ /NDF: 470.9/17

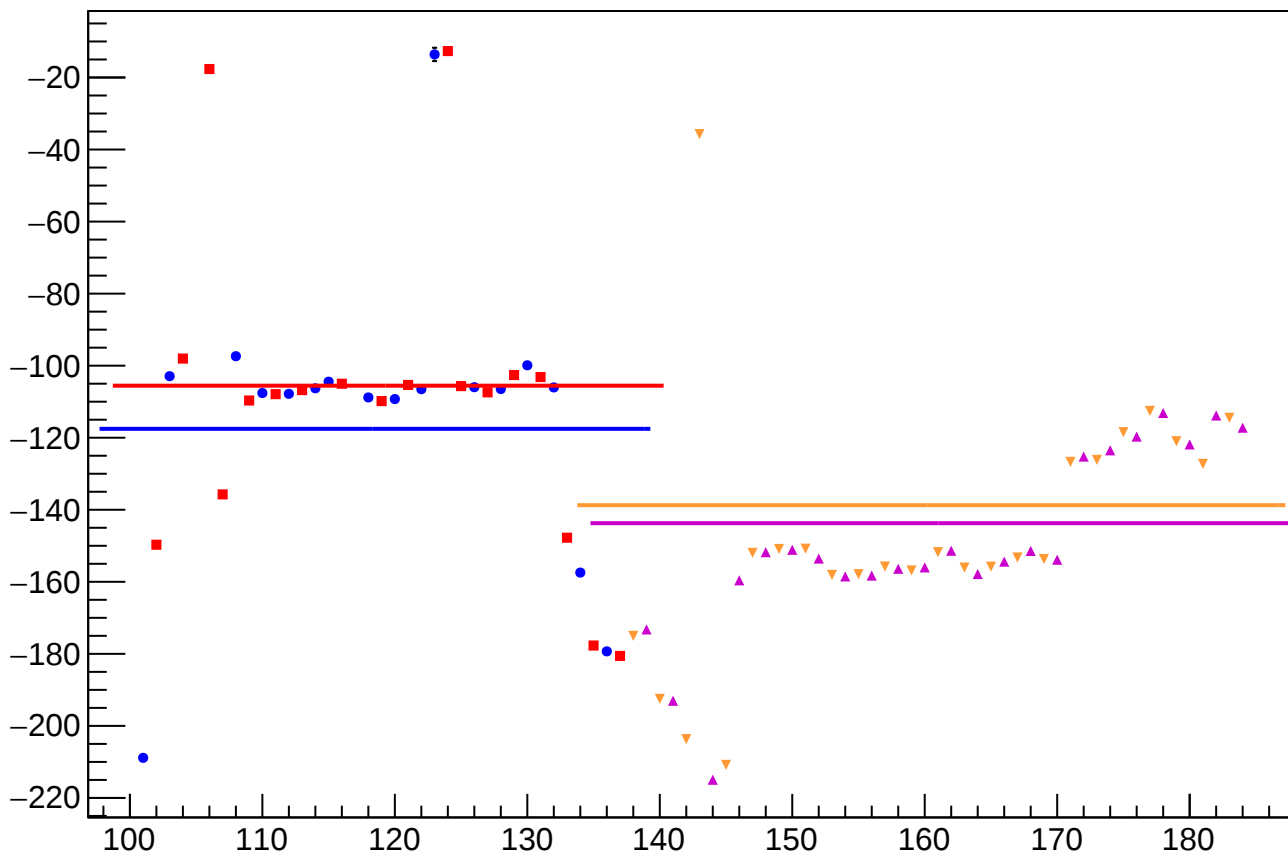
Left In: 60.392 $\pm$ 0.987  $\chi^2$ /NDF: 341.2/22

+ sign 51.820 $\pm$ 0.764  $\chi^2$ /NDF: 1317.7/40

All: 51.587 $\pm$ 0.543  $\chi^2$ /NDF: 2345.5/81

- sign 51.350 $\pm$ 0.771  $\chi^2$ /NDF: 1027.6/40

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -117.533+/-0.078  $\chi^2/\text{NDF}$ : 142039.8/16

Left Out: -138.725+/-0.046  $\chi^2/\text{NDF}$ : 557322.7/23

Right Out: -105.555+/-0.073  $\chi^2/\text{NDF}$ : 317428.5/17

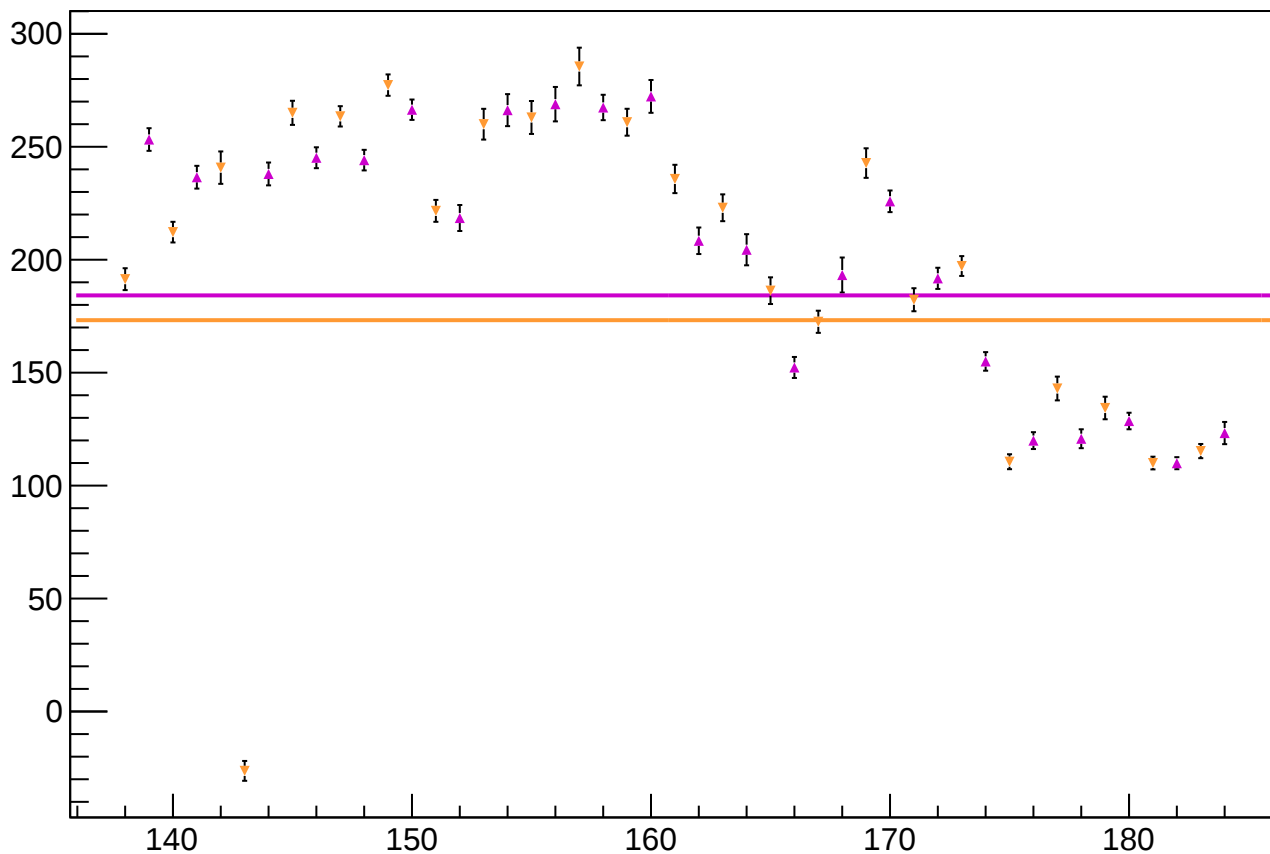
Left In: -143.726+/-0.046  $\chi^2/\text{NDF}$ : 260994.5/22

+ sign -133.311+/-0.039  $\chi^2/\text{NDF}$ : 754141.5/40

All: -133.092+/-0.028  $\chi^2/\text{NDF}$ : 1529047.7/81

- sign -132.881+/-0.039  $\chi^2/\text{NDF}$ : 774846.1/40

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 173.234+/-0.976  $\chi^2/\text{NDF}$ : 5845.9/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

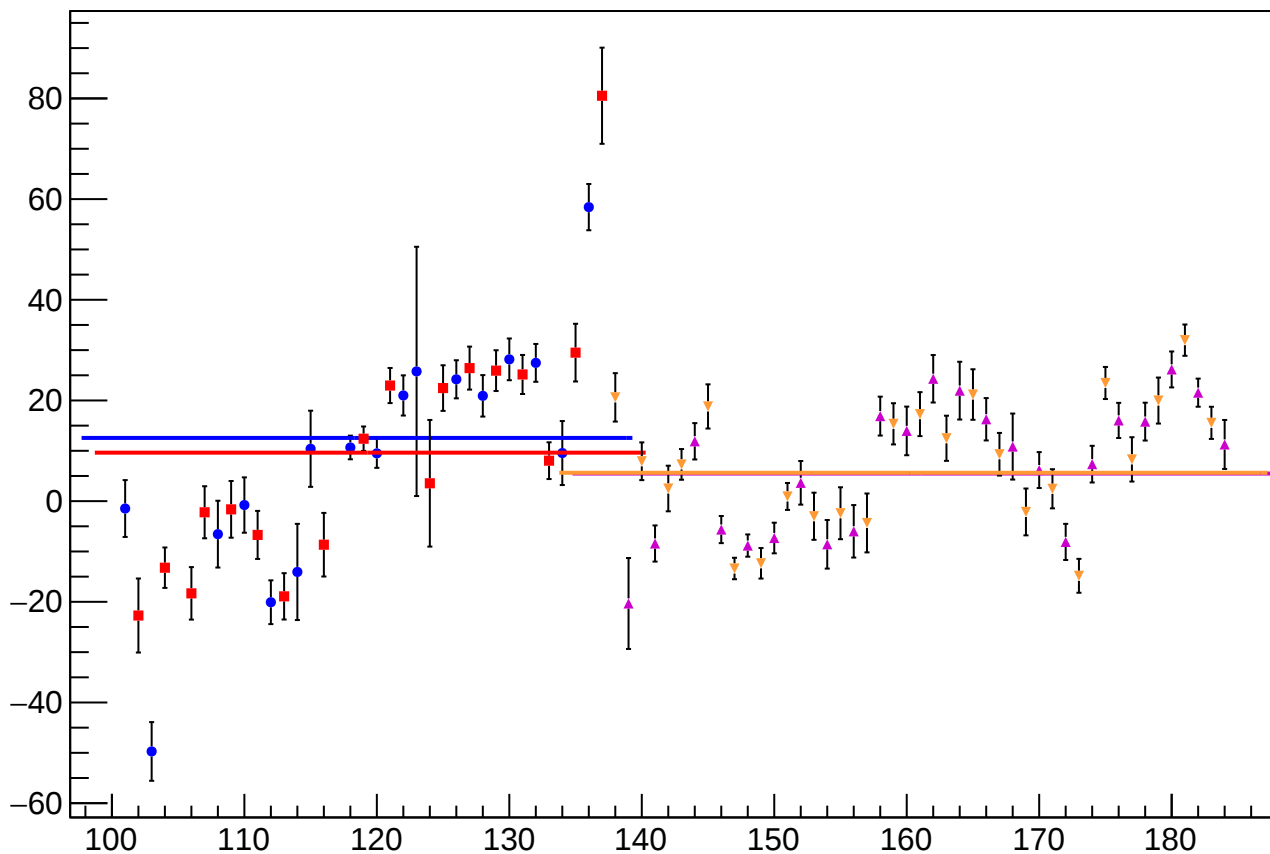
Left In: 184.205+/-0.987  $\chi^2/\text{NDF}$ : 3637.1/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 178.661+/-0.694  $\chi^2/\text{NDF}$ : 9545.5/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 12.559 $\pm$ 1.057  $\chi^2$ /NDF: 348.6/16

Left Out: 5.633 $\pm$ 0.754  $\chi^2$ /NDF:335.3/23

Right Out: 9.631 $\pm$ 1.049  $\chi^2$ /NDF: 287.5/17

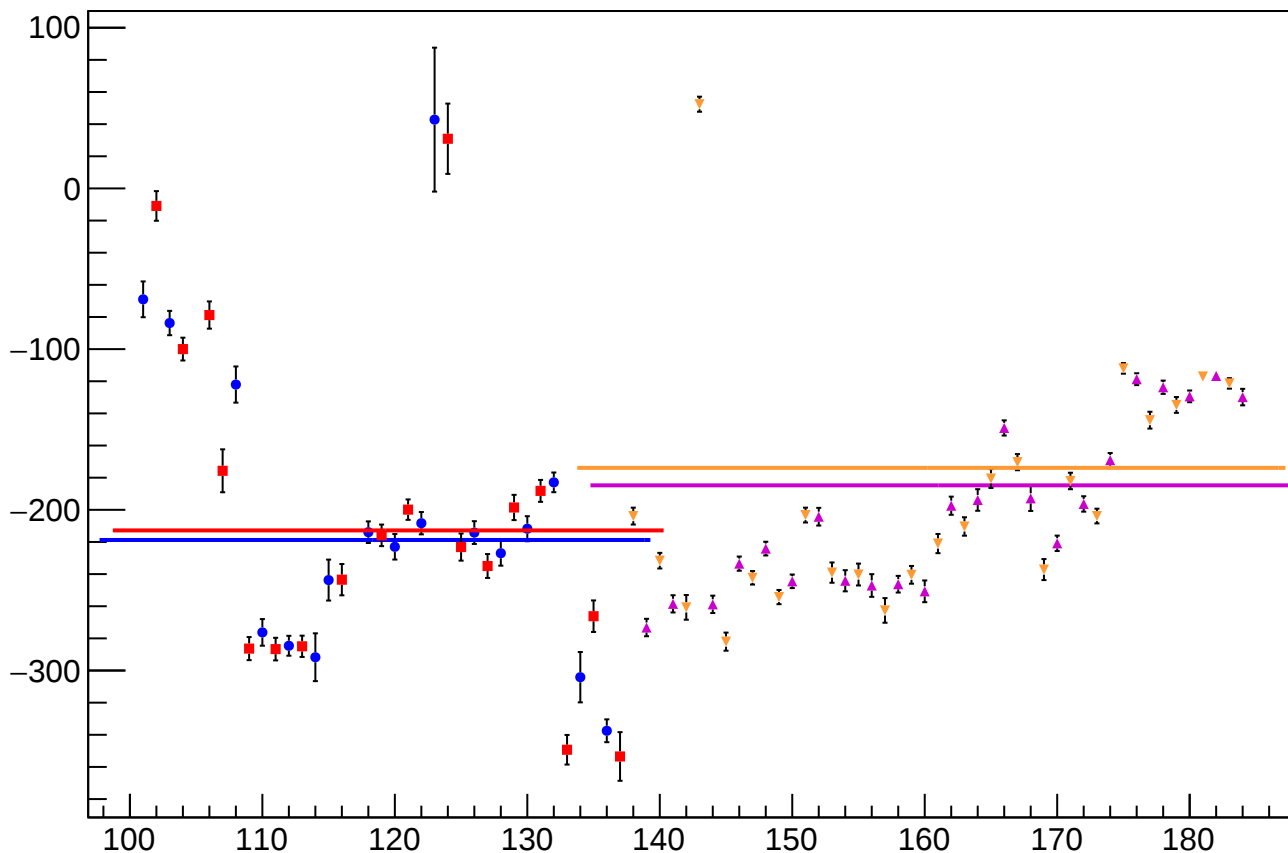
Left In: 5.483 $\pm$ 0.779  $\chi^2$ /NDF:259.1/22

+ sign 7.966 $\pm$ 0.614  $\chi^2$ /NDF: 712.3/40

All: 7.471 $\pm$ 0.438  $\chi^2$ /NDF: 1270.3/81

- sign 6.957 $\pm$ 0.625  $\chi^2$ /NDF: 556.6/40

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-218.770 \pm 2.010$   $\chi^2/\text{NDF}$ : 1144.4/16

Left Out:  $-173.880 \pm 0.981$   $\chi^2/\text{NDF}$ : 5442.4/23

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}$ : 1824.5/17

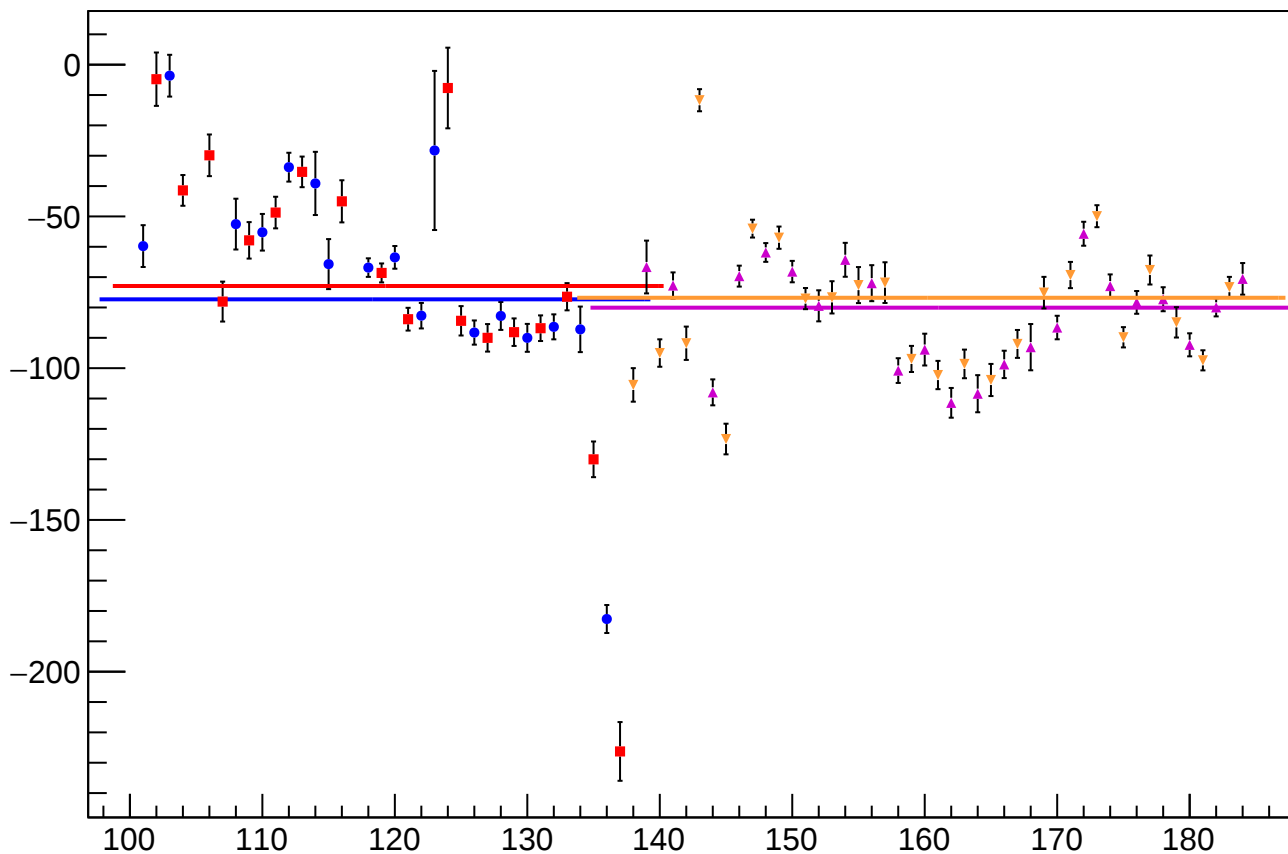
Left In:  $-184.774 \pm 0.987$   $\chi^2/\text{NDF}$ : 3082.4/22

+ sign  $-182.511 \pm 0.881$   $\chi^2/\text{NDF}$ : 6989.6/40

All:  $-186.572 \pm 0.622$   $\chi^2/\text{NDF}$ : 12106.6/81

- sign  $-190.604 \pm 0.878$   $\chi^2/\text{NDF}$ : 5074.8/40

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-77.319 \pm 1.222$   $\chi^2/\text{NDF}$ : 817.7/16

Left Out:  $-76.803 \pm 0.866$   $\chi^2/\text{NDF}$ : 775.0/23

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

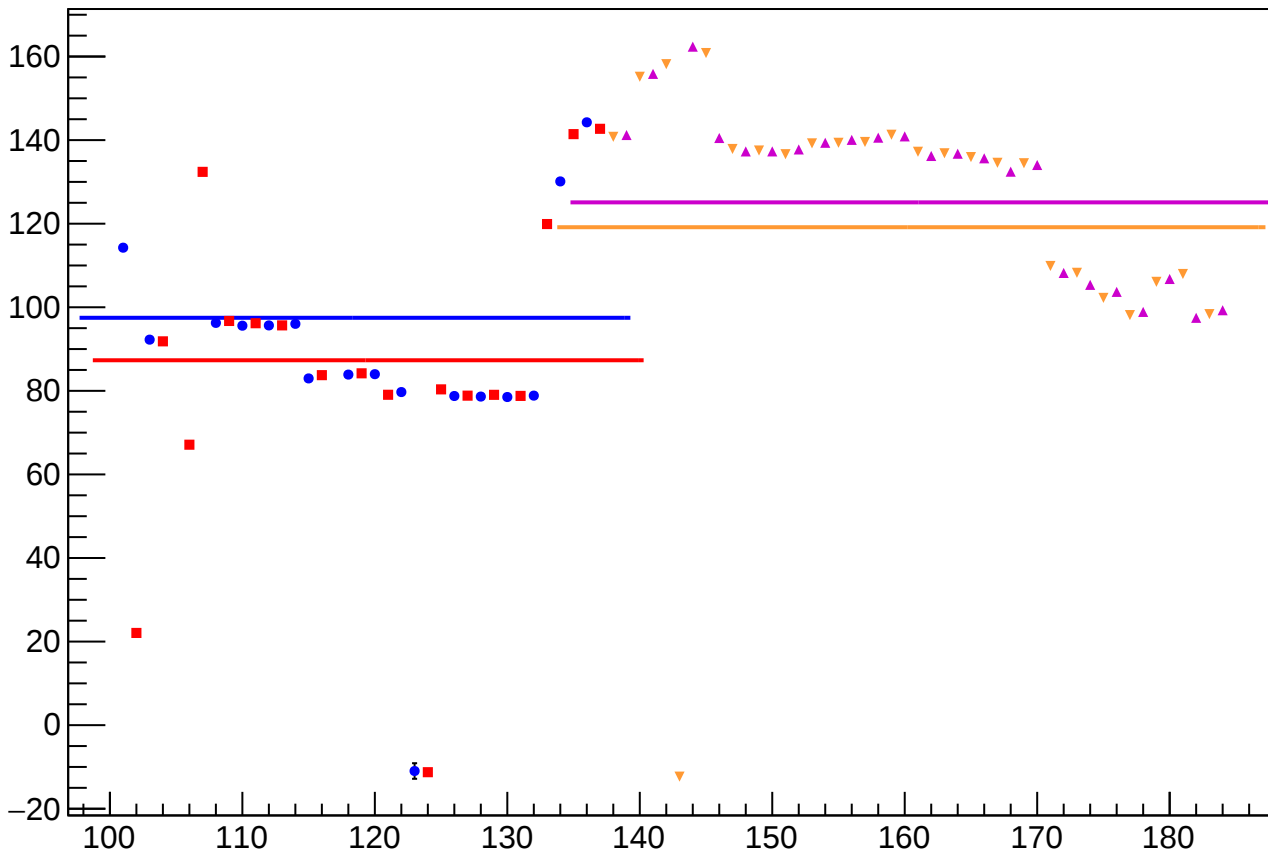
Left In:  $-80.068 \pm 0.886$   $\chi^2/\text{NDF}$ : 286.8/22

+ sign  $-76.975 \pm 0.706$   $\chi^2/\text{NDF}$ : 1592.8/40

All:  $-77.268 \pm 0.502$   $\chi^2/\text{NDF}$ : 2563.5/81

- sign  $-77.567 \pm 0.715$   $\chi^2/\text{NDF}$ : 970.4/40

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.483+/-0.073  $\chi^2/\text{NDF}$ : 94392.9/16

Left Out: 119.154+/-0.041  $\chi^2/\text{NDF}$ : 721869.6/23

Right Out: 87.318+/-0.068  $\chi^2/\text{NDF}$ : 221863.6/17

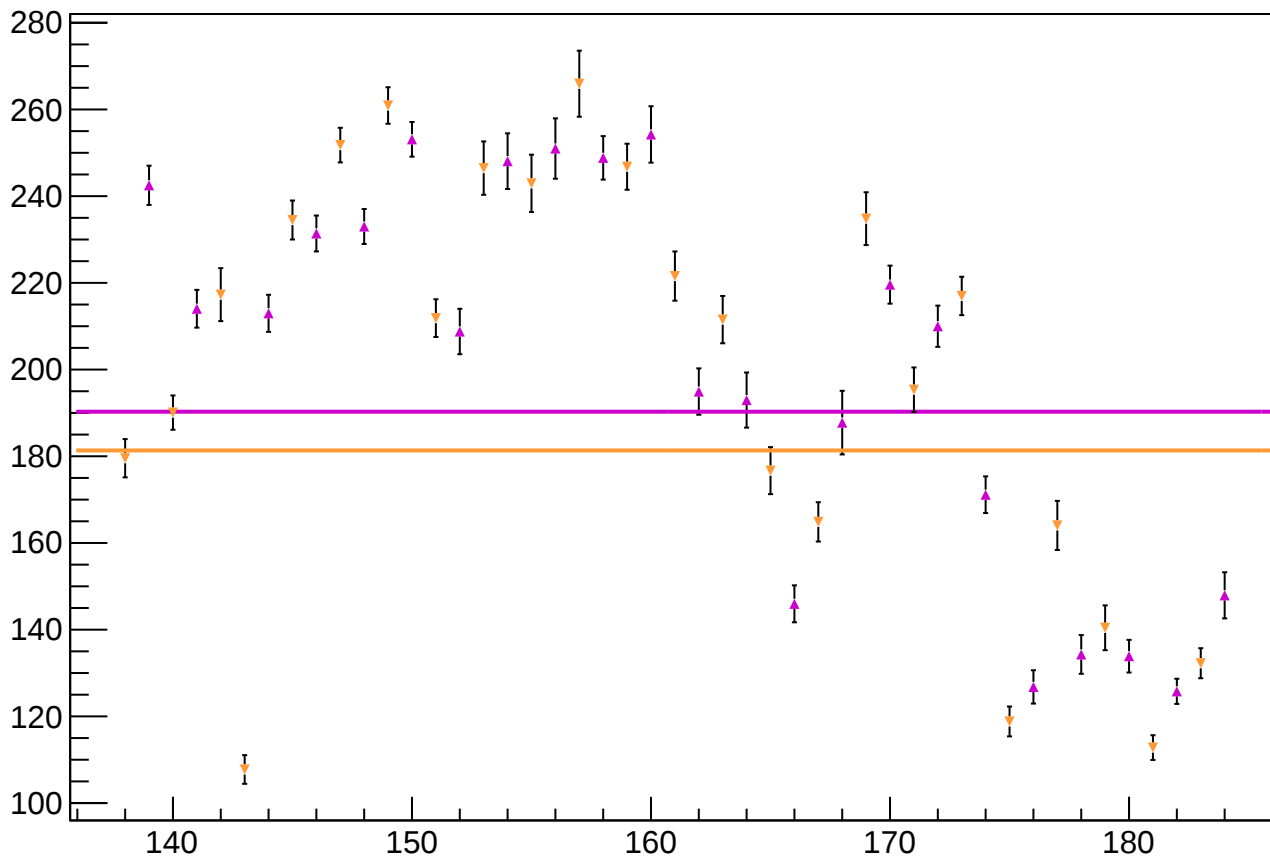
Left In: 125.101+/-0.041  $\chi^2/\text{NDF}$ : 222793.3/22

+ sign 113.983+/-0.036  $\chi^2/\text{NDF}$ : 882695.8/40

All: 114.534+/-0.025  $\chi^2/\text{NDF}$ : 1552298.3/81

- sign 115.066+/-0.035  $\chi^2/\text{NDF}$ : 669137.8/40

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 181.343+/-0.921  $\chi^2/\text{NDF}$ : 3288.6/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

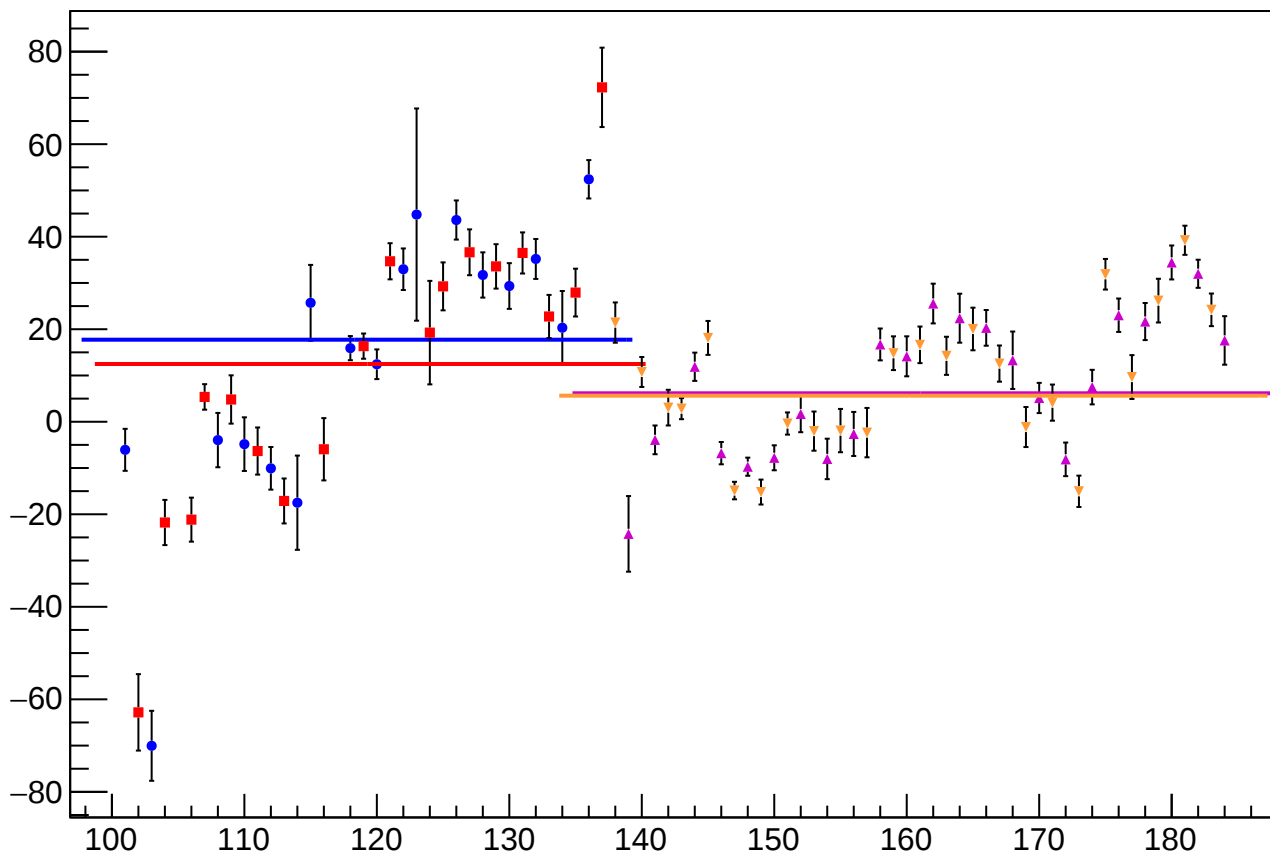
Left In: 190.279+/-0.949  $\chi^2/\text{NDF}$ : 2452.9/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 185.677+/-0.661  $\chi^2/\text{NDF}$ : 5787.2/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 17.737 $\pm$ 1.149  $\chi^2$ /NDF: 394.0/16

Left Out: 5.638 $\pm$ 0.692  $\chi^2$ /NDF: 515.9/23

Right Out: 12.484 $\pm$ 1.085  $\chi^2$ /NDF: 429.2/17

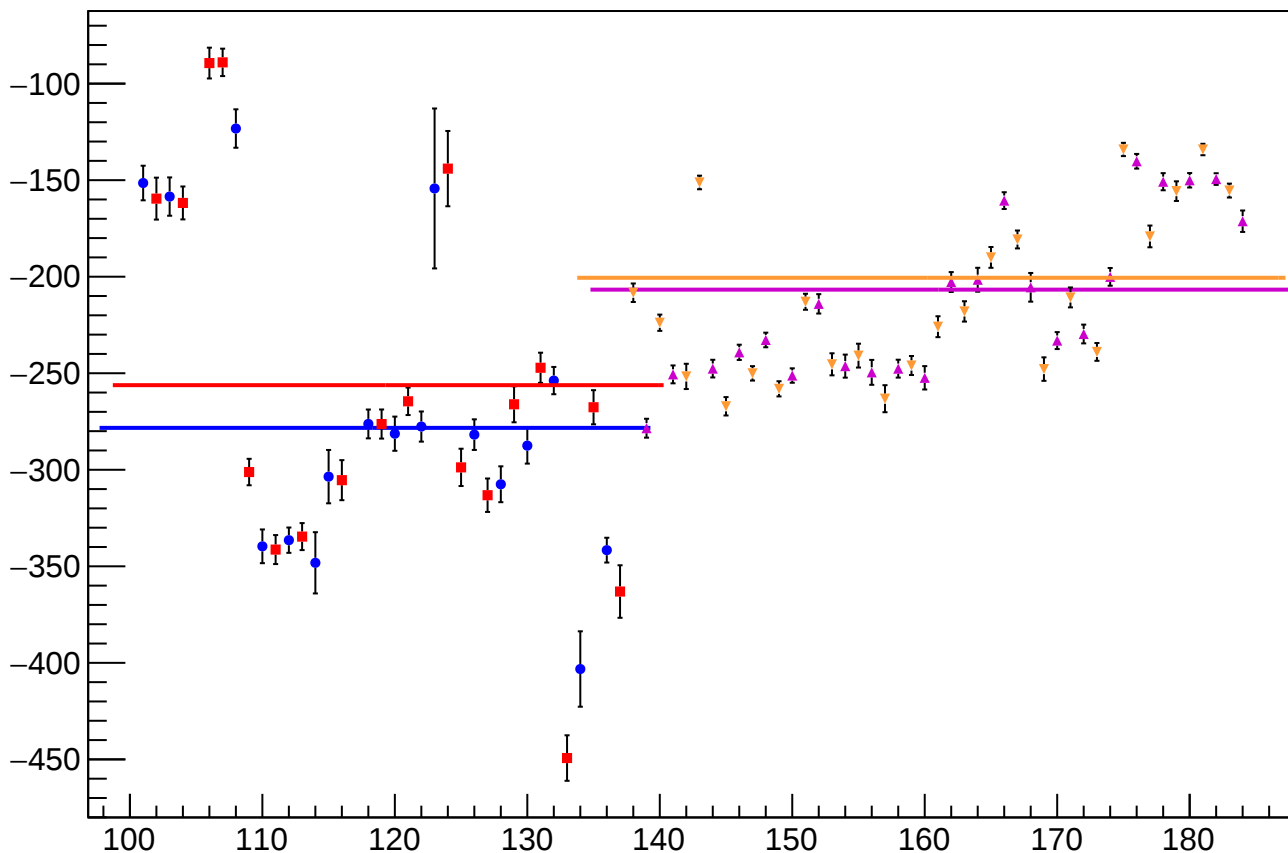
Left In: 6.151 $\pm$ 0.730  $\chi^2$ /NDF: 410.6/22

+ sign 8.861 $\pm$ 0.593  $\chi^2$ /NDF: 991.3/40

All: 8.500 $\pm$ 0.424  $\chi^2$ /NDF: 1855.2/81

- sign 8.124 $\pm$ 0.606  $\chi^2$ /NDF: 863.2/40

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-278.294 \pm 2.172$   $\chi^2/\text{NDF}$ : 910.0/16

Left Out:  $-200.557 \pm 0.925$   $\chi^2/\text{NDF}$ : 2467.0/23

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}$ : 1952.2/17

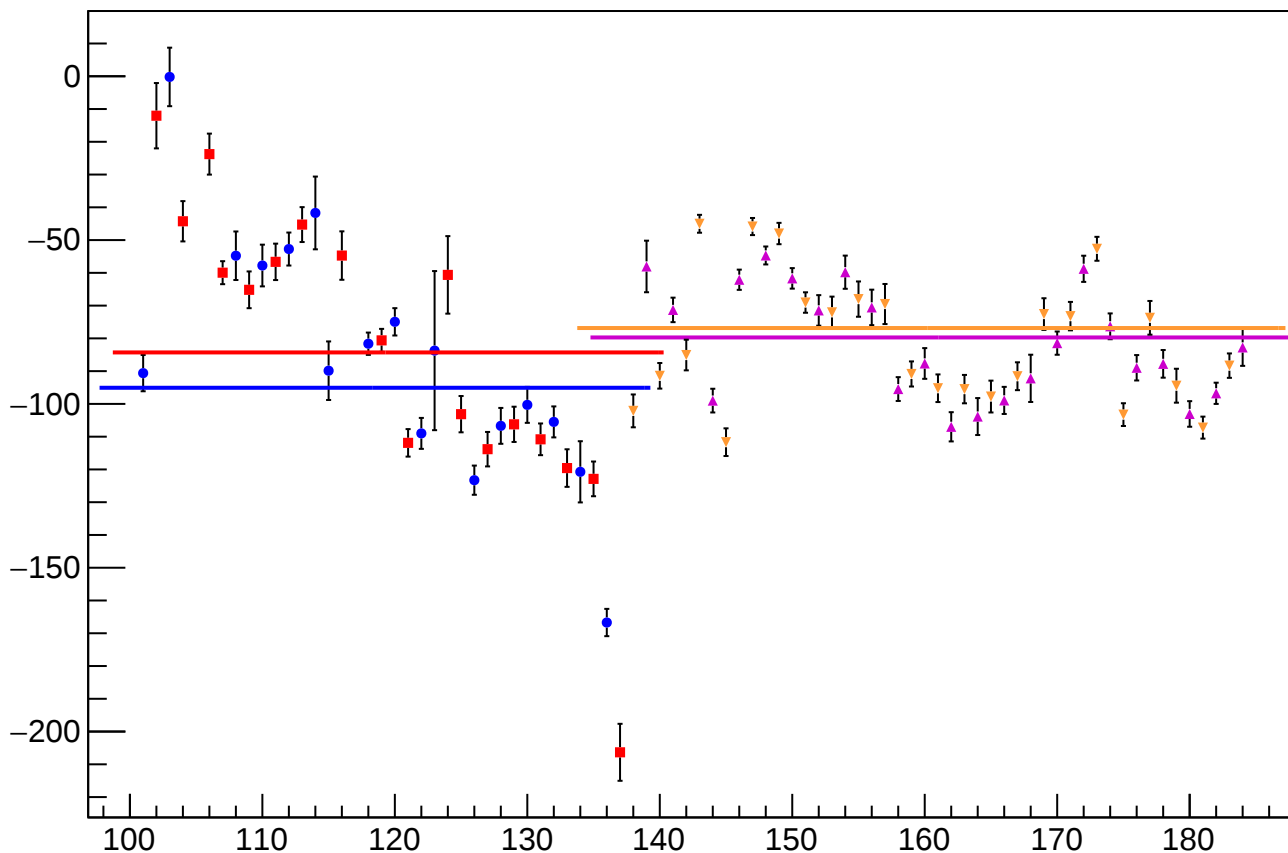
Left In:  $-206.700 \pm 0.946$   $\chi^2/\text{NDF}$ : 2134.9/22

+ sign  $-212.485 \pm 0.851$   $\chi^2/\text{NDF}$ : 4461.2/40

All:  $-214.014 \pm 0.604$   $\chi^2/\text{NDF}$ : 9044.9/81

- sign  $-215.566 \pm 0.857$   $\chi^2/\text{NDF}$ : 4577.2/40

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-95.074 \pm 1.325$   $\chi^2/\text{NDF}$ : 673.2/16

Left Out:  $-76.842 \pm 0.802$   $\chi^2/\text{NDF}$ : 764.9/23

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

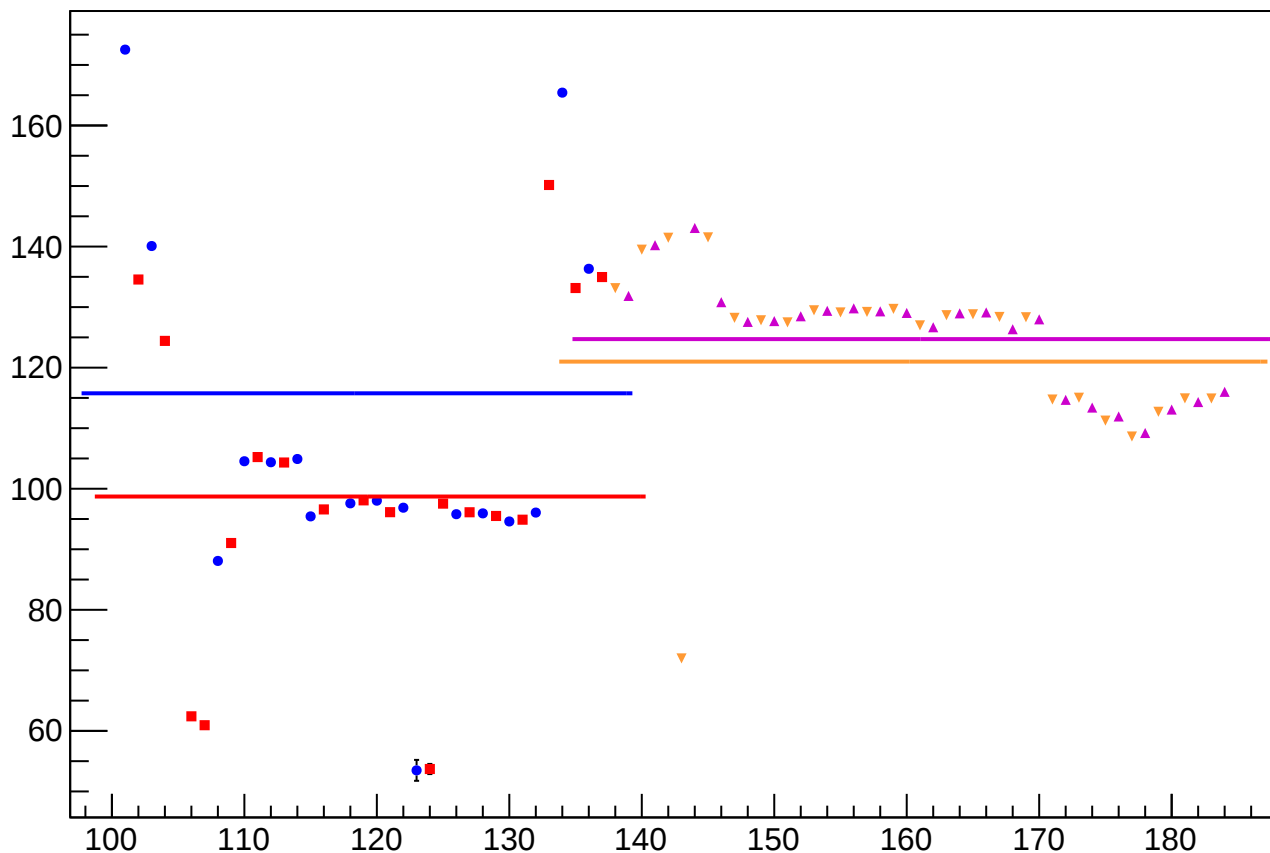
Left In:  $-79.719 \pm 0.837$   $\chi^2/\text{NDF}$ : 415.2/22

+ sign  $-81.730 \pm 0.686$   $\chi^2/\text{NDF}$ : 1576.6/40

All:  $-81.431 \pm 0.489$   $\chi^2/\text{NDF}$ : 2770.0/81

- sign  $-81.122 \pm 0.697$   $\chi^2/\text{NDF}$ : 1193.1/40

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 115.763 $\pm$ 0.078  $\chi^2$ /NDF: 106297.4/16

Left Out: 120.998 $\pm$ 0.038  $\chi^2$ /NDF:182176.7/23

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

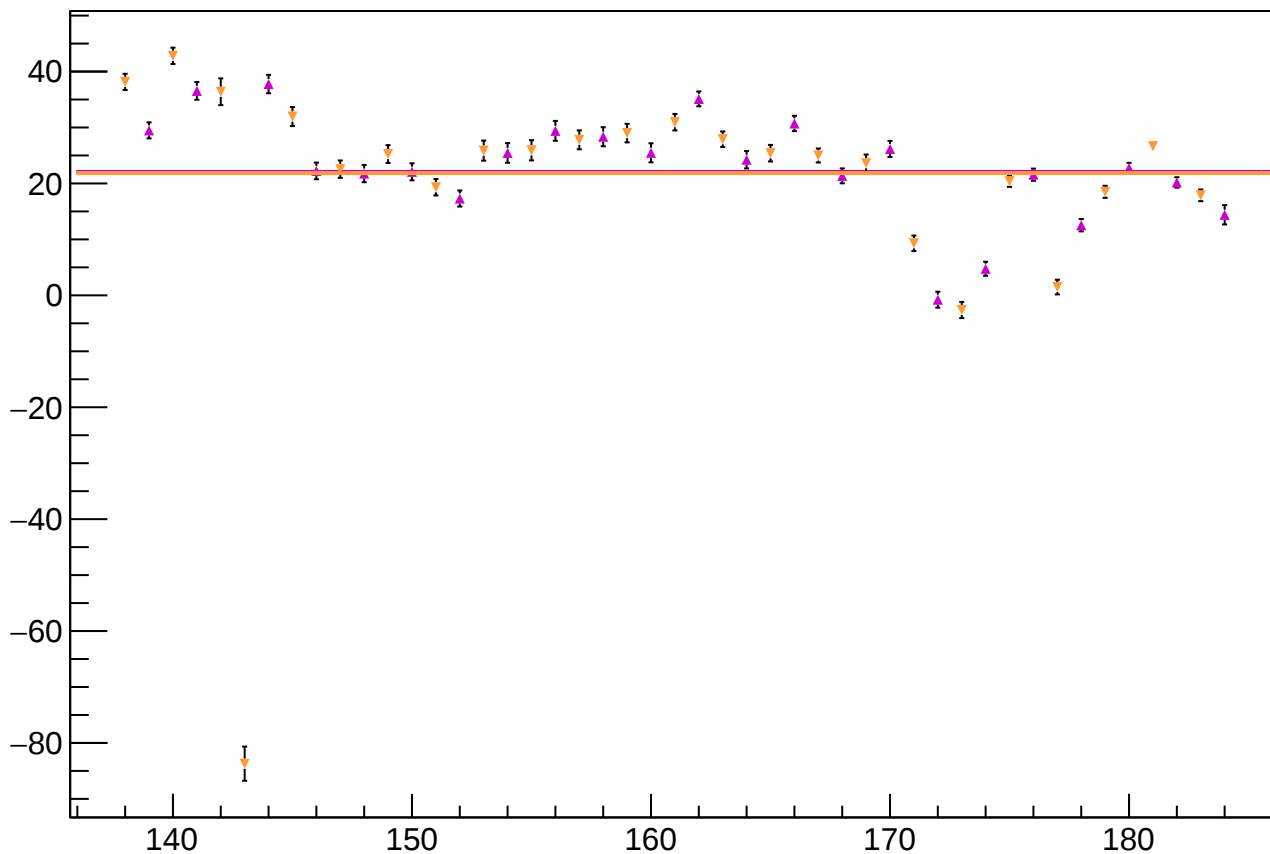
Left In: 124.714 $\pm$ 0.039  $\chi^2$ /NDF:51750.7/22

+ sign 119.976 $\pm$ 0.034  $\chi^2$ /NDF: 292091.7/40

All: 119.155 $\pm$ 0.024  $\chi^2$ /NDF: 623340.6/81

- sign 118.359 $\pm$ 0.034  $\chi^2$ /NDF: 330133.3/40

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 21.854+/-0.285  $\chi^2/\text{NDF}$ :2382.5/23

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

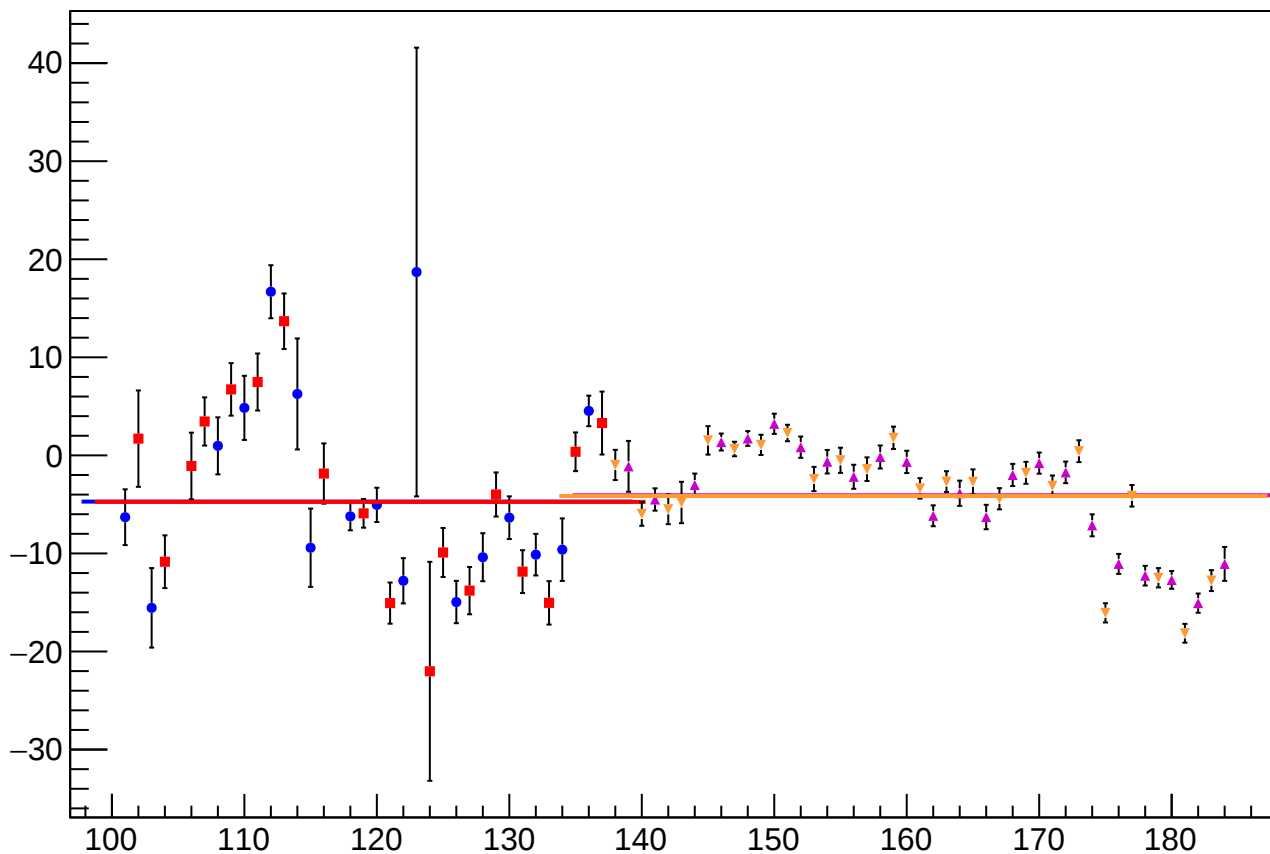
Left In: 22.055+/-0.284  $\chi^2/\text{NDF}$ :941.3/22

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.954+/-0.201  $\chi^2/\text{NDF}$ : 3324.0/46

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-4.713 \pm 0.581$   $\chi^2/\text{NDF}$ : 174.7/16

Left Out:  $-4.144 \pm 0.225$   $\chi^2/\text{NDF}$ : 715.4/23

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

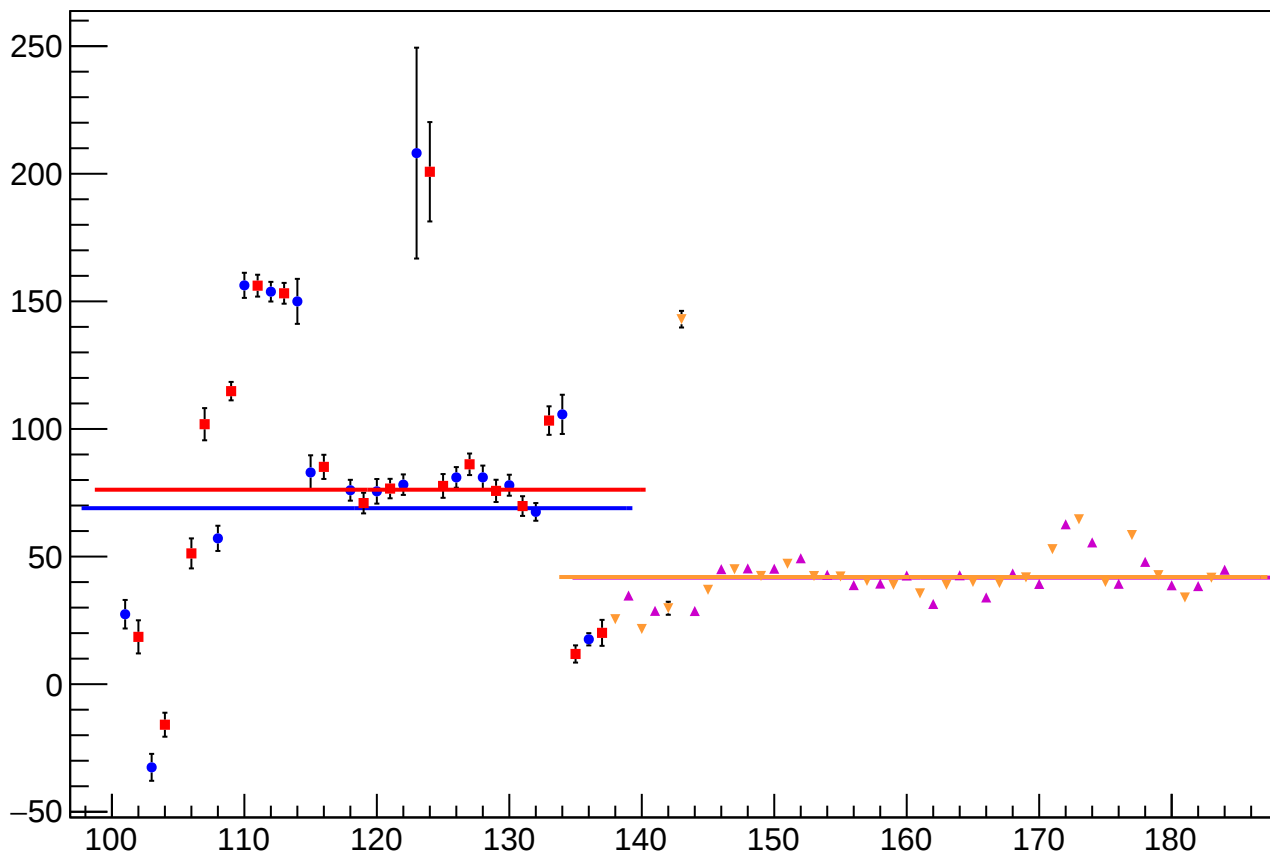
Left In:  $-4.069 \pm 0.227$   $\chi^2/\text{NDF}$ : 580.1/22

+ sign  $-4.218 \pm 0.210$   $\chi^2/\text{NDF}$ : 890.9/40

All:  $-4.188 \pm 0.149$   $\chi^2/\text{NDF}$ : 1661.5/81

- sign  $-4.158 \pm 0.212$   $\chi^2/\text{NDF}$ : 770.5/40

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 68.960 $\pm$ 1.079  $\chi^2$ /NDF: 1844.0/16

Left Out: 41.987 $\pm$ 0.284  $\chi^2$ /NDF:1855.8/23

Right Out: 76.199 $\pm$ 1.071  $\chi^2$ /NDF: 1881.0/17

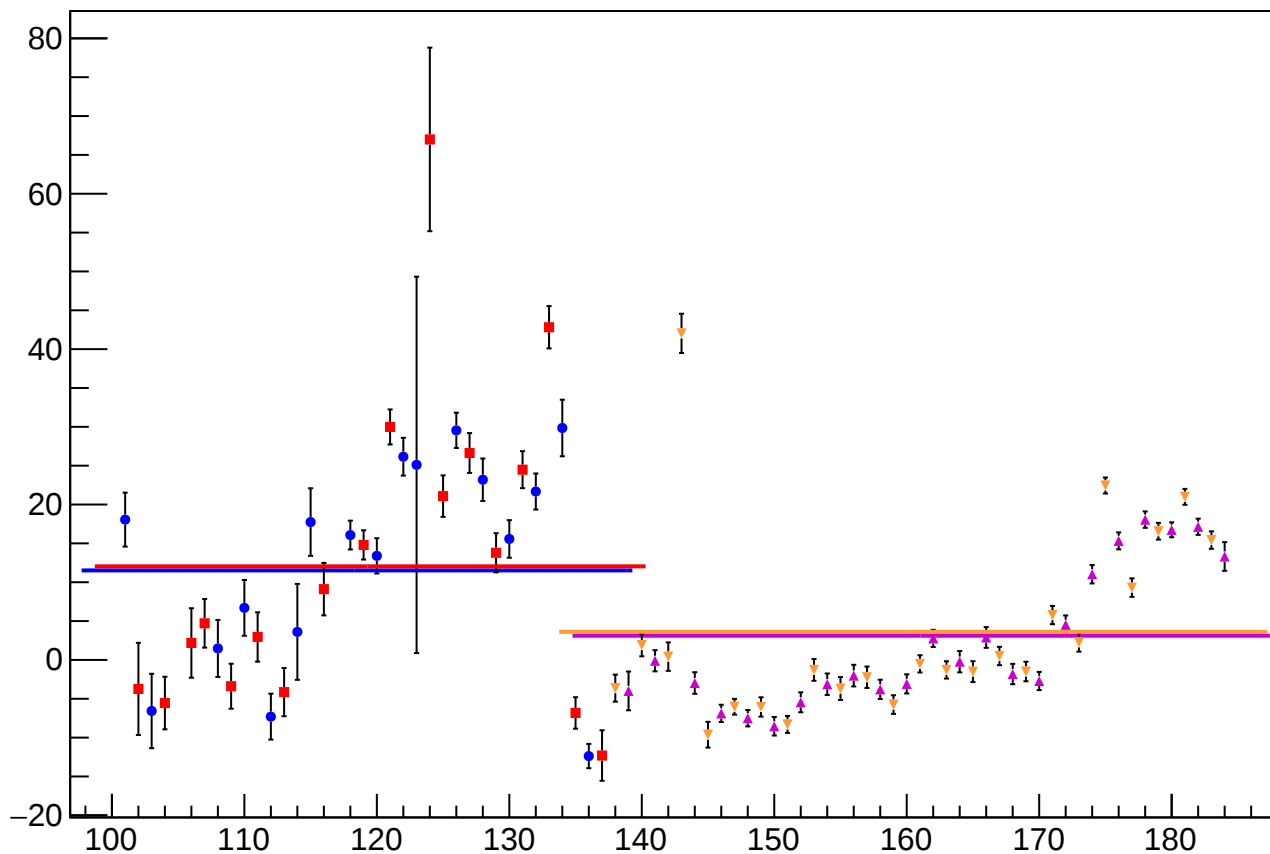
Left In: 41.755 $\pm$ 0.283  $\chi^2$ /NDF:659.6/22

+ sign 43.737 $\pm$ 0.275  $\chi^2$ /NDF: 4284.3/40

All: 43.870 $\pm$ 0.194  $\chi^2$ /NDF: 7792.1/81

- sign 44.003 $\pm$ 0.274  $\chi^2$ /NDF: 3507.4/40

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.521 $\pm$ 0.660  $\chi^2$ /NDF: 477.2/16

Left Out: 3.618 $\pm$ 0.254  $\chi^2$ /NDF:1679.6/23

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

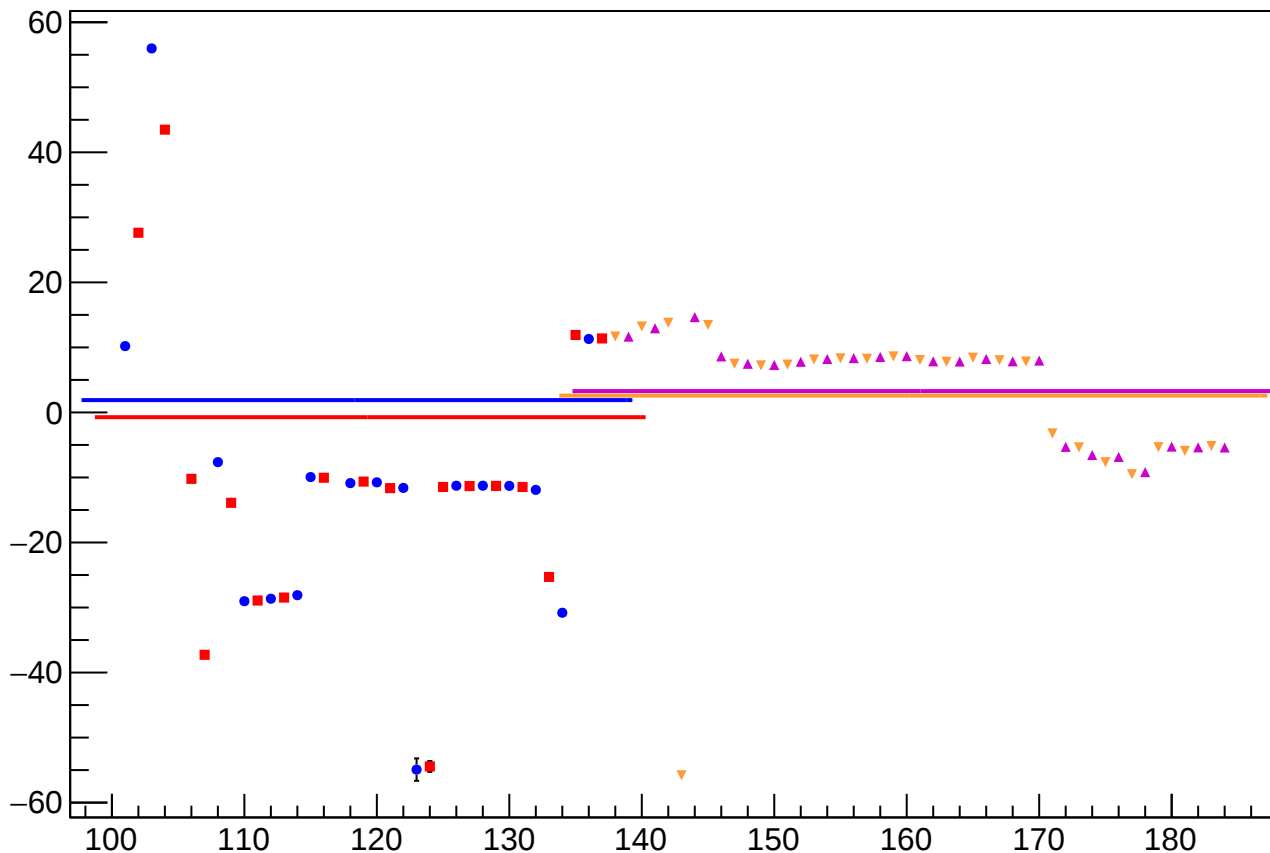
Left In: 3.114 $\pm$ 0.256  $\chi^2$ /NDF:1273.1/22

+ sign 4.640 $\pm$ 0.237  $\chi^2$ /NDF: 2281.8/40

All: 4.457 $\pm$ 0.168  $\chi^2$ /NDF: 4252.0/81

- sign 4.271 $\pm$ 0.239  $\chi^2$ /NDF: 1969.1/40

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $1.896 \pm 0.037$   $\chi^2/\text{NDF}$ : 358855.7/16

Left Out:  $2.588 \pm 0.012$   $\chi^2/\text{NDF}$ : 608012.1/23

Right Out:  $-0.733 \pm 0.037$   $\chi^2/\text{NDF}$ : 359934.4/17

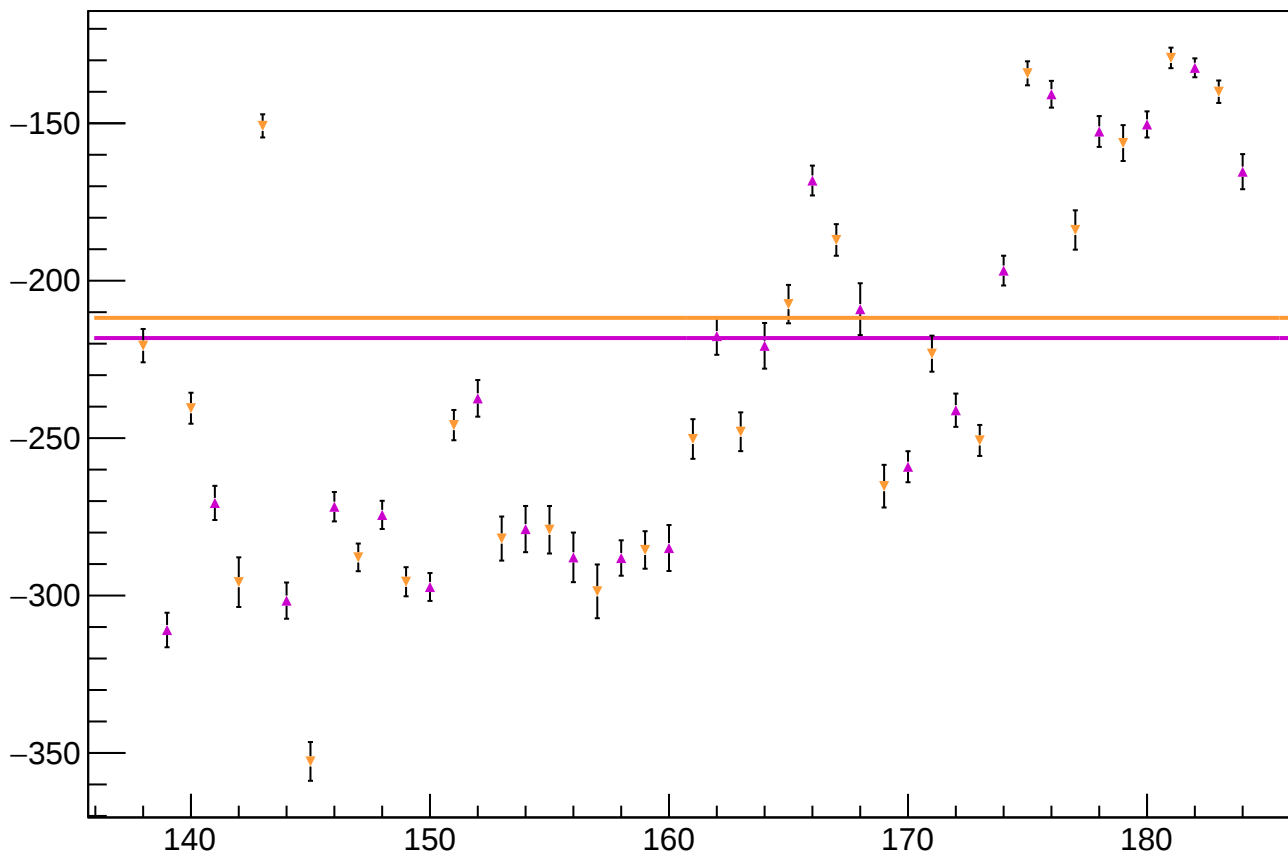
Left In:  $3.281 \pm 0.012$   $\chi^2/\text{NDF}$ : 409605.3/22

+ sign  $2.525 \pm 0.011$   $\chi^2/\text{NDF}$ : 967185.0/40

All:  $2.726 \pm 0.008$   $\chi^2/\text{NDF}$ : 1748022.7/81

- sign  $2.924 \pm 0.011$   $\chi^2/\text{NDF}$ : 780194.8/40

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-211.801 \pm 1.040$   $\chi^2/\text{NDF}$ : 3869.1/23

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

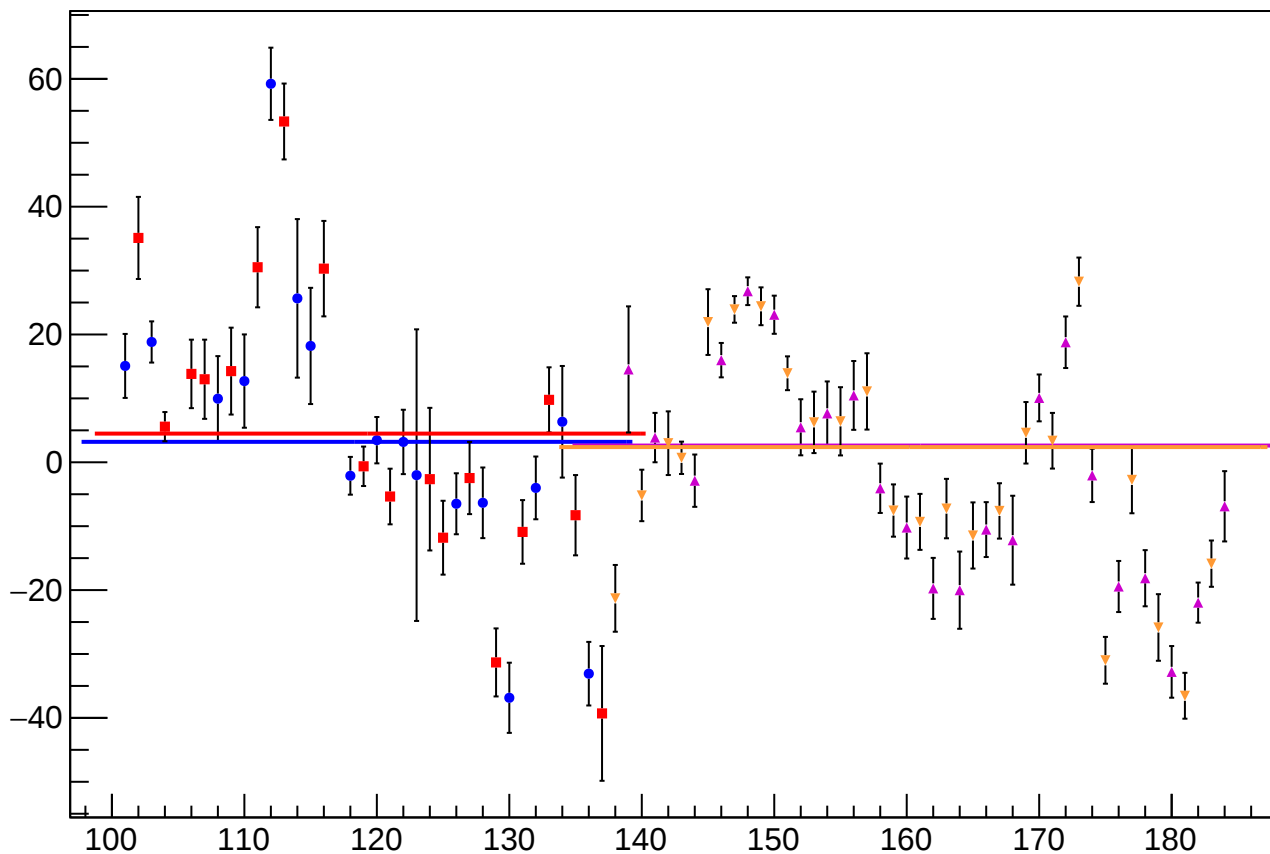
Left In:  $-218.216 \pm 1.063$   $\chi^2/\text{NDF}$ : 3499.0/22

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-214.938 \pm 0.743$   $\chi^2/\text{NDF}$ : 7386.7/46

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.200 \pm 1.227$   $\chi^2/\text{NDF}$ : 255.2/16

Left Out:  $2.378 \pm 0.780$   $\chi^2/\text{NDF}$ : 557.1/23

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}$ : 221.8/17

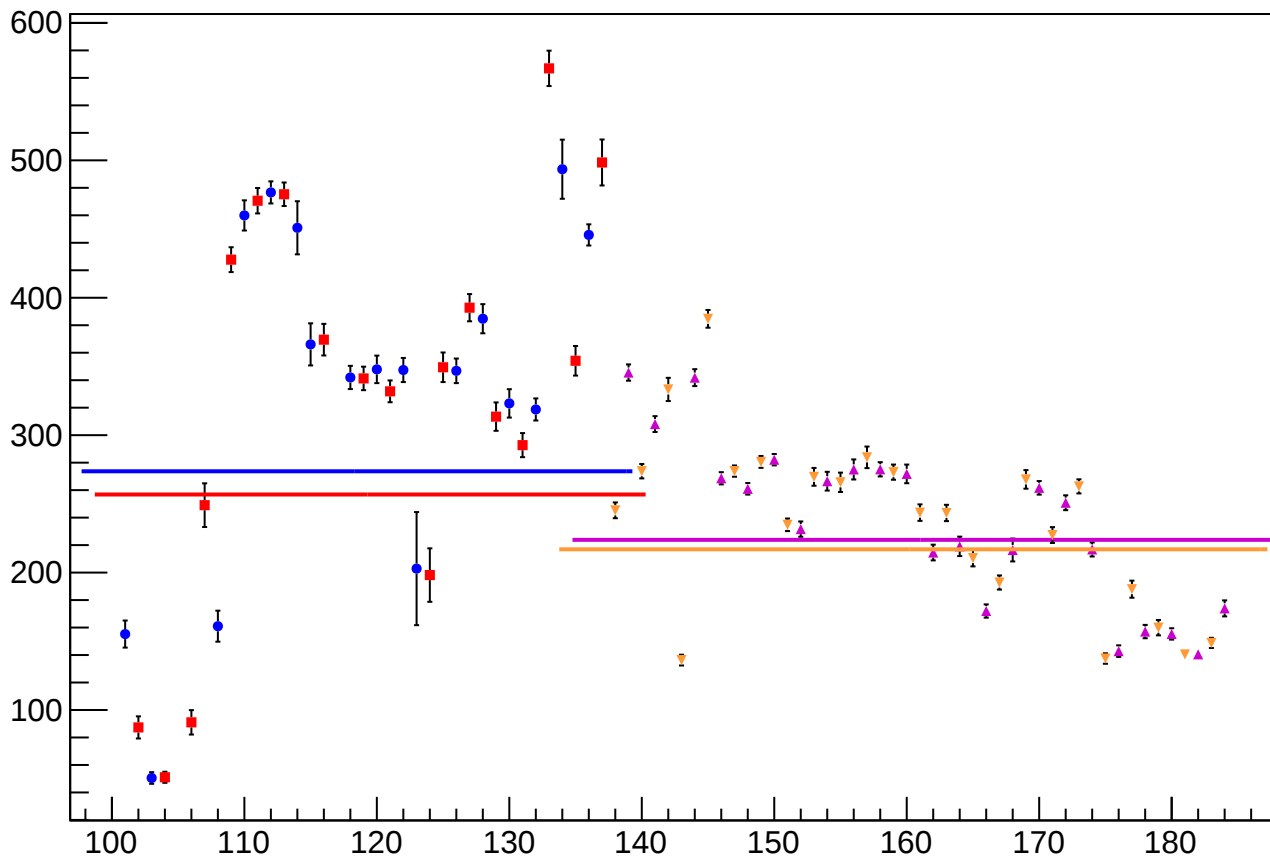
Left In:  $2.619 \pm 0.821$   $\chi^2/\text{NDF}$ : 477.6/22

+ sign  $2.614 \pm 0.658$   $\chi^2/\text{NDF}$ : 812.6/40

All:  $2.924 \pm 0.469$   $\chi^2/\text{NDF}$ : 1514.1/81

- sign  $3.243 \pm 0.670$   $\chi^2/\text{NDF}$ : 701.1/40

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $273.717 \pm 2.195$   $\chi^2/\text{NDF}: 5103.3/16$

Left Out:  $216.938 \pm 1.042$   $\chi^2/\text{NDF}: 3757.1/23$

Right Out:  $256.826 \pm 2.084$   $\chi^2/\text{NDF}: 6411.8/17$

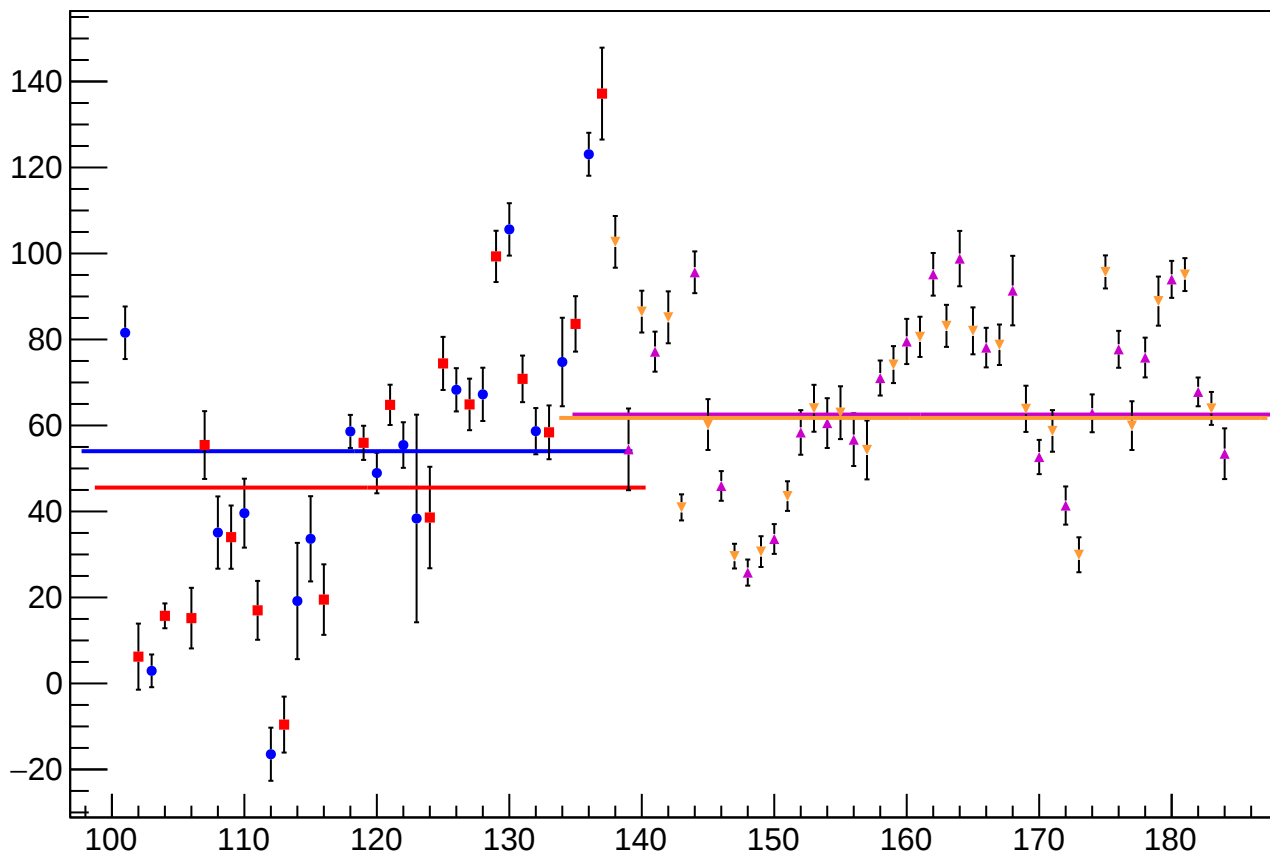
Left In:  $223.827 \pm 1.058$   $\chi^2/\text{NDF}: 3444.7/22$

+ sign  $227.379 \pm 0.941$   $\chi^2/\text{NDF}: 9406.7/40$

All:  $228.983 \pm 0.666$   $\chi^2/\text{NDF}: 19468.3/81$

- sign  $230.596 \pm 0.944$   $\chi^2/\text{NDF}: 10055.8/40$

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 54.016 $\pm$ 1.423  $\chi^2$ /NDF: 632.9/16

Left Out: 61.757 $\pm$ 0.904  $\chi^2$ /NDF: 673.7/23

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

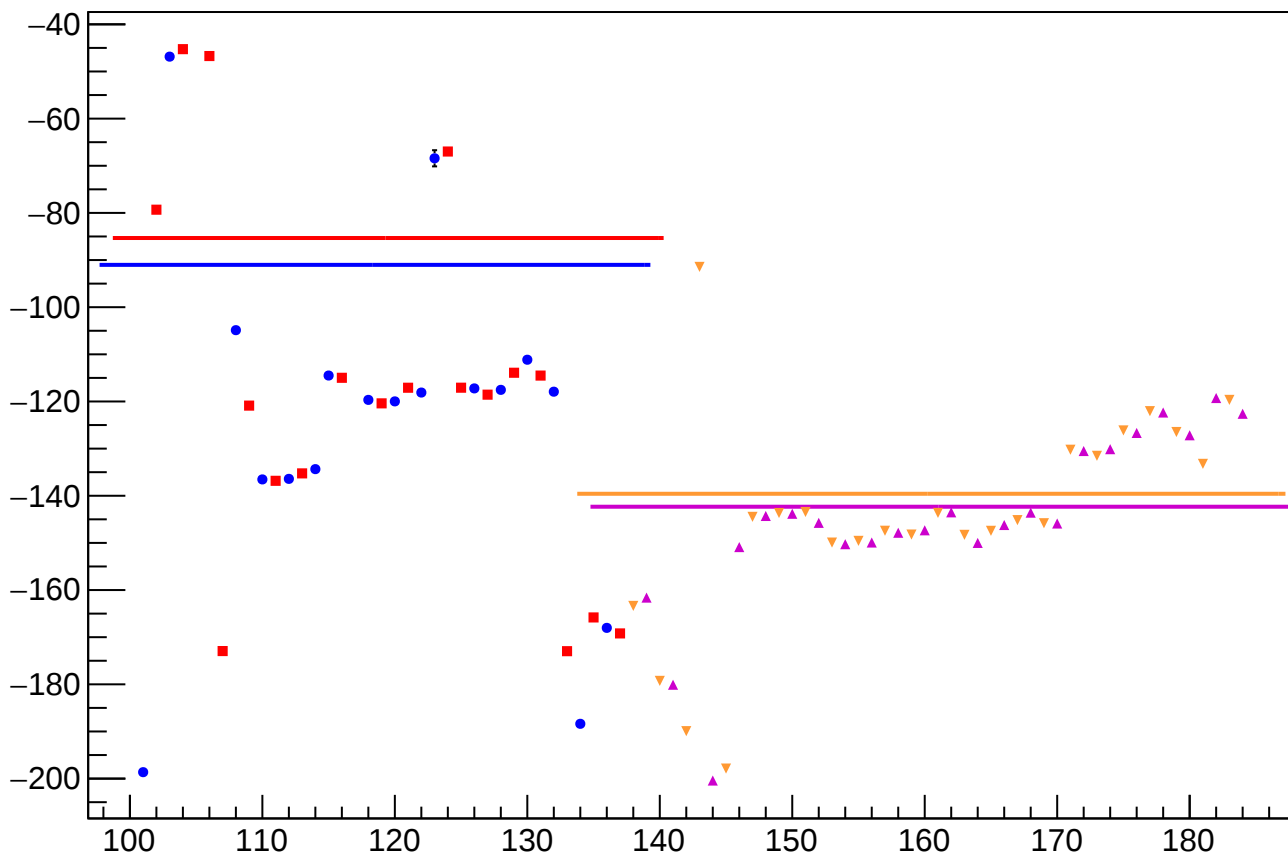
Left In: 62.538 $\pm$ 0.940  $\chi^2$ /NDF: 520.0/22

+ sign 59.532 $\pm$ 0.763  $\chi^2$ /NDF: 1327.7/40

All: 58.300 $\pm$ 0.543  $\chi^2$ /NDF: 2485.2/81

- sign 57.036 $\pm$ 0.773  $\chi^2$ /NDF: 1152.3/40

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-91.021 \pm 0.068$   $\chi^2/\text{NDF}$ : 534258.1/16

Left Out:  $-139.579 \pm 0.043$   $\chi^2/\text{NDF}$ : 252062.6/23

Right Out:  $-85.325 \pm 0.065$   $\chi^2/\text{NDF}$ : 483106.3/17

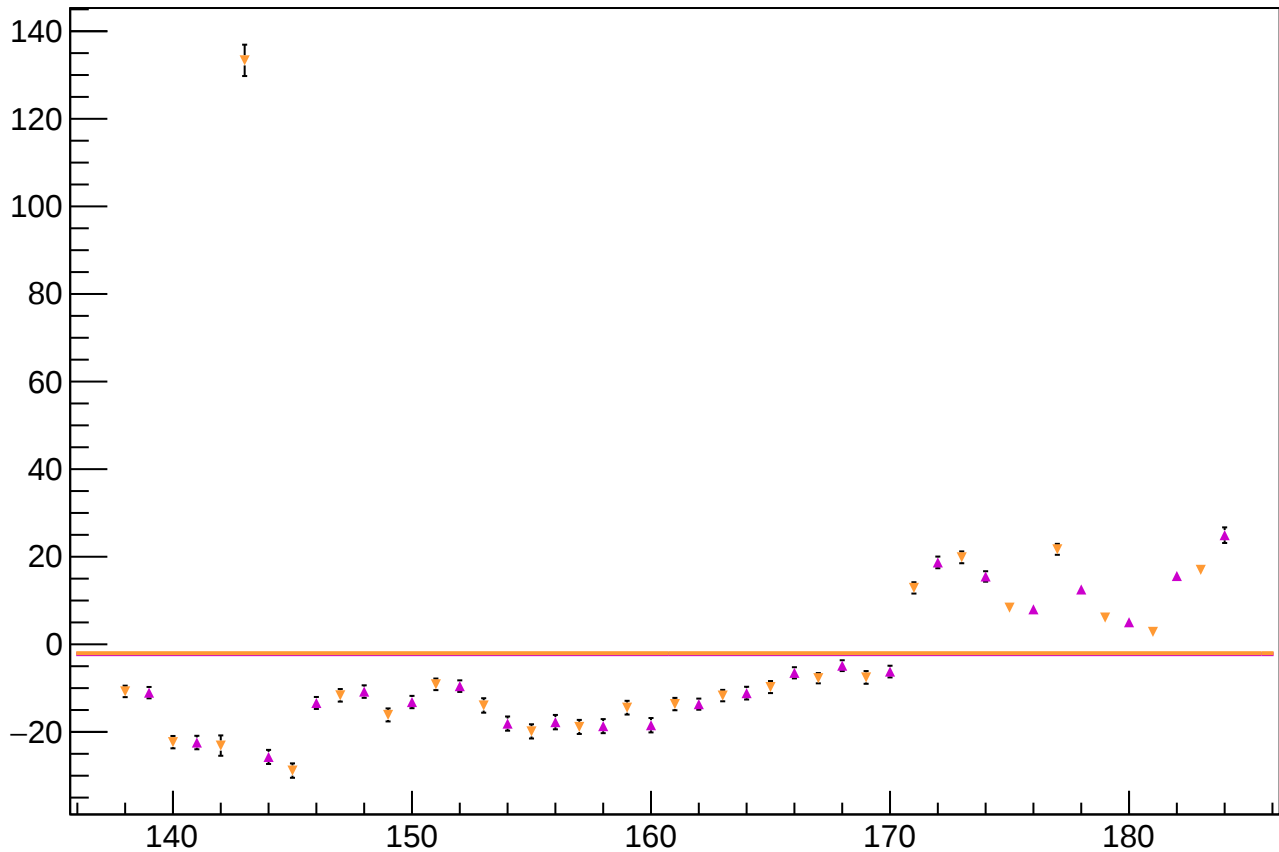
Left In:  $-142.326 \pm 0.044$   $\chi^2/\text{NDF}$ : 144642.3/22

+ sign  $-125.399 \pm 0.037$   $\chi^2/\text{NDF}$ : 1151808.6/40

All:  $-124.962 \pm 0.026$   $\chi^2/\text{NDF}$ : 2306104.7/81

- sign  $-124.528 \pm 0.036$   $\chi^2/\text{NDF}$ : 1154010.7/40

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -2.024 $\pm$ 0.270  $\chi^2$ /NDF:4008.1/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

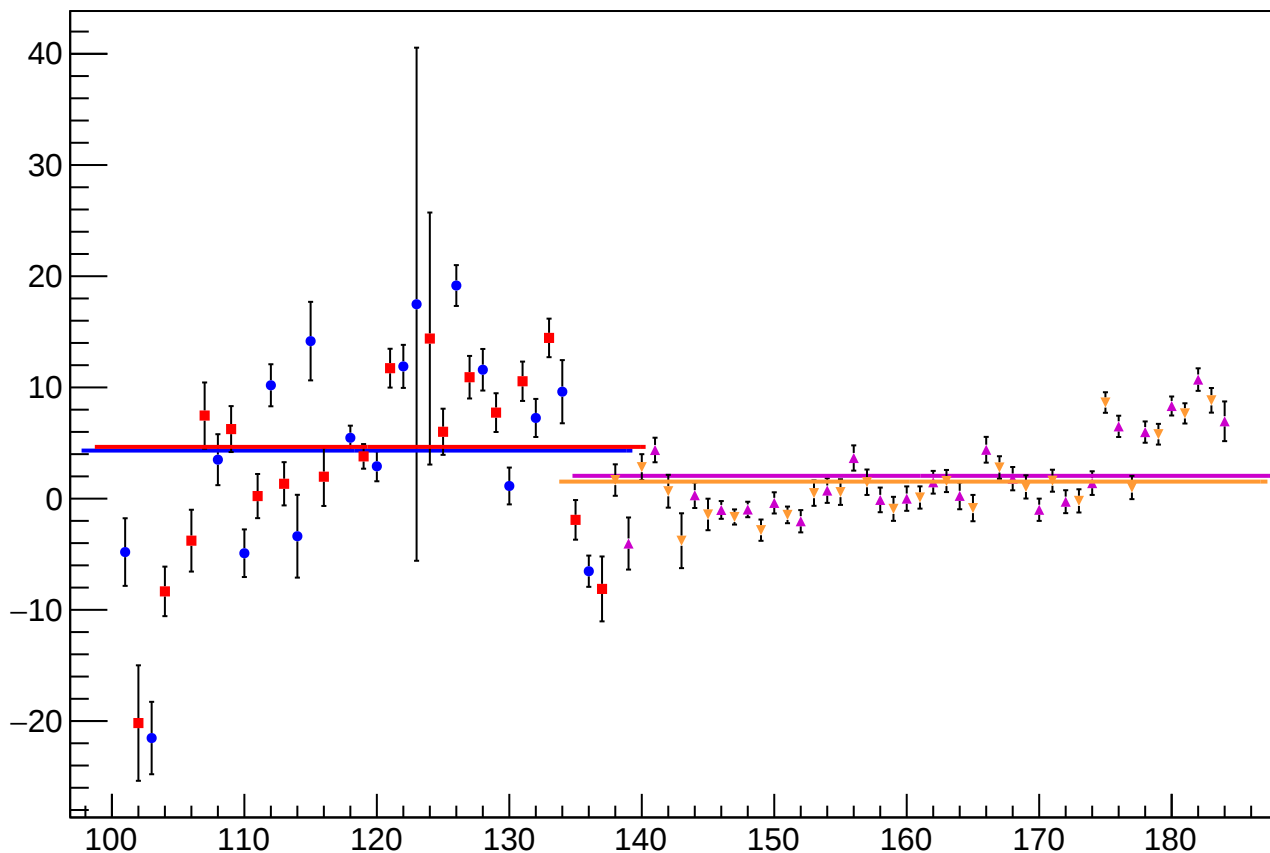
Left In: -2.244 $\pm$ 0.270  $\chi^2$ /NDF:2561.6/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.134 $\pm$ 0.191  $\chi^2$ /NDF: 6570.1/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.322 \pm 0.465$   $\chi^2/\text{NDF}$ : 280.3/16

Left Out:  $1.532 \pm 0.212$   $\chi^2/\text{NDF}$ : 255.8/23

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.4/17

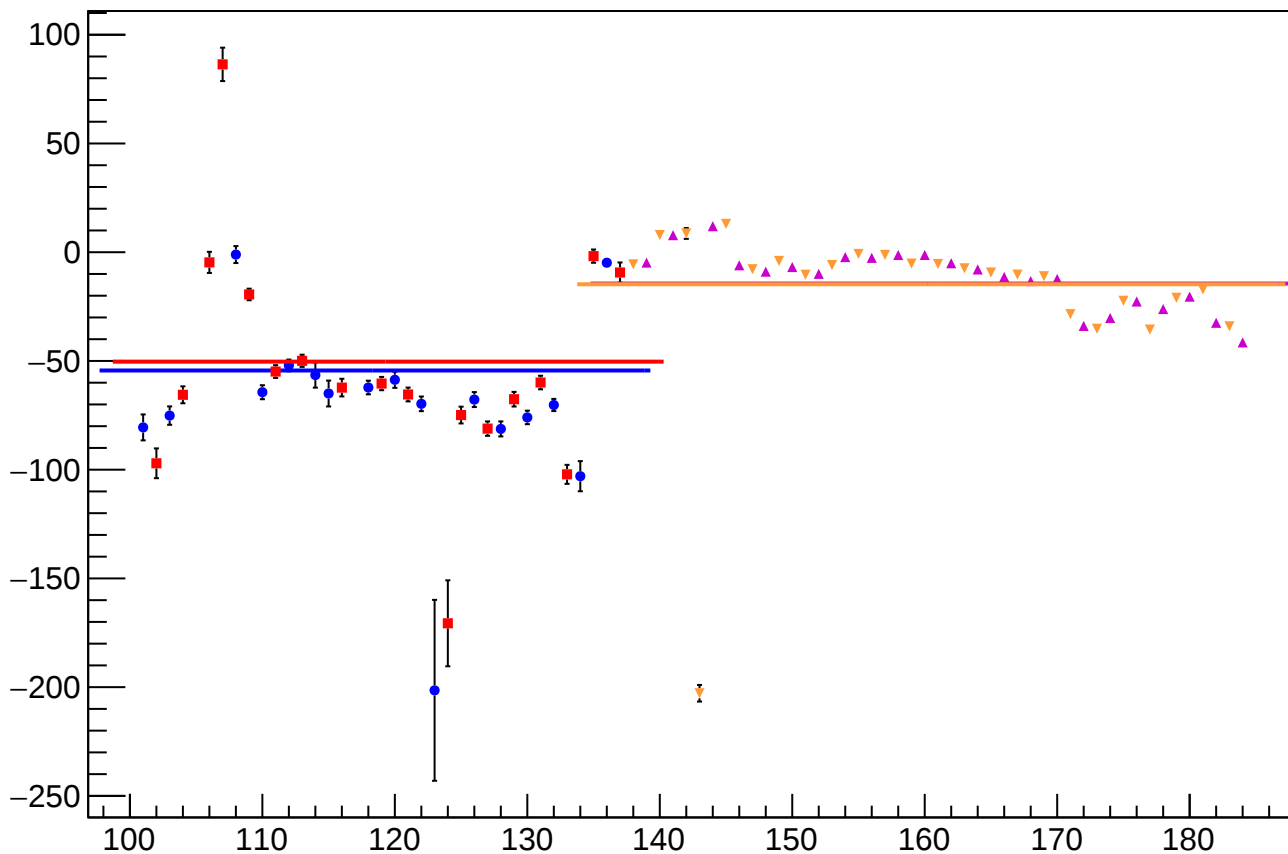
Left In:  $2.051 \pm 0.215$   $\chi^2/\text{NDF}$ : 275.4/22

+ sign  $2.010 \pm 0.193$   $\chi^2/\text{NDF}$ : 565.9/40

All:  $2.248 \pm 0.137$   $\chi^2/\text{NDF}$ : 1053.8/81

- sign  $2.494 \pm 0.196$   $\chi^2/\text{NDF}$ : 484.8/40

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-54.387 \pm 0.864$   $\chi^2/\text{NDF}$ : 1014.0/16

Left Out:  $-14.732 \pm 0.269$   $\chi^2/\text{NDF}$ : 4507.8/23

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}$ : 1319.3/17

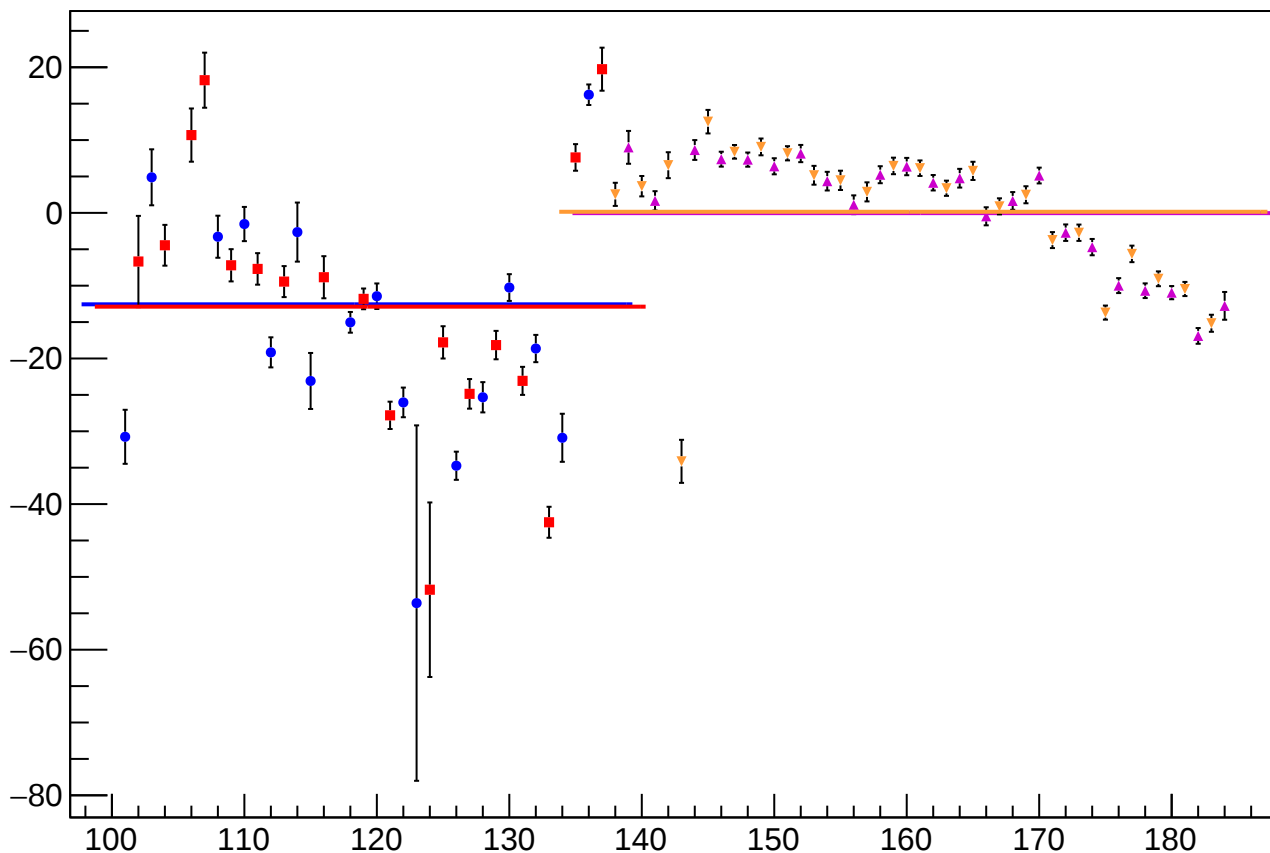
Left In:  $-14.415 \pm 0.268$   $\chi^2/\text{NDF}$ : 2065.7/22

+ sign  $-18.222 \pm 0.256$   $\chi^2/\text{NDF}$ : 7440.8/40

All:  $-17.913 \pm 0.181$   $\chi^2/\text{NDF}$ : 12422.8/81

- sign  $-17.606 \pm 0.256$   $\chi^2/\text{NDF}$ : 4979.1/40

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.561 \pm 0.531$   $\chi^2/\text{NDF}$ : 779.5/16

Left Out:  $0.152 \pm 0.240$   $\chi^2/\text{NDF}$ : 1167.6/23

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

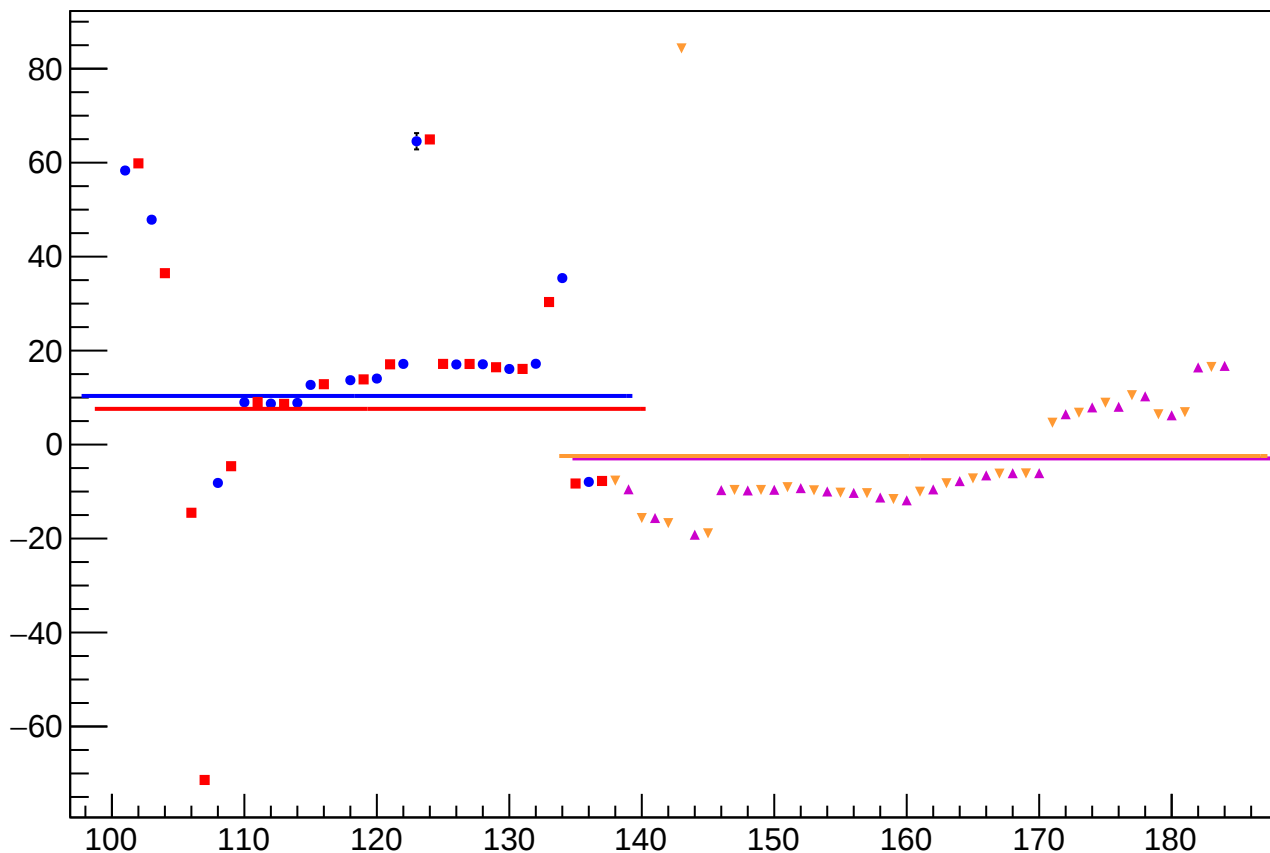
Left In:  $-0.036 \pm 0.242$   $\chi^2/\text{NDF}$ : 1027.6/22

+ sign  $-1.998 \pm 0.219$   $\chi^2/\text{NDF}$ : 2422.5/40

All:  $-2.099 \pm 0.155$   $\chi^2/\text{NDF}$ : 4650.7/81

- sign  $-2.201 \pm 0.221$   $\chi^2/\text{NDF}$ : 2227.7/40

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 10.350+/-0.031  $\chi^2/\text{NDF}$ : 380878.9/16

Left Out: -2.434+/-0.011  $\chi^2/\text{NDF}$ : 1044875.5/23

Right Out: 7.602+/-0.031  $\chi^2/\text{NDF}$ : 538460.3/17

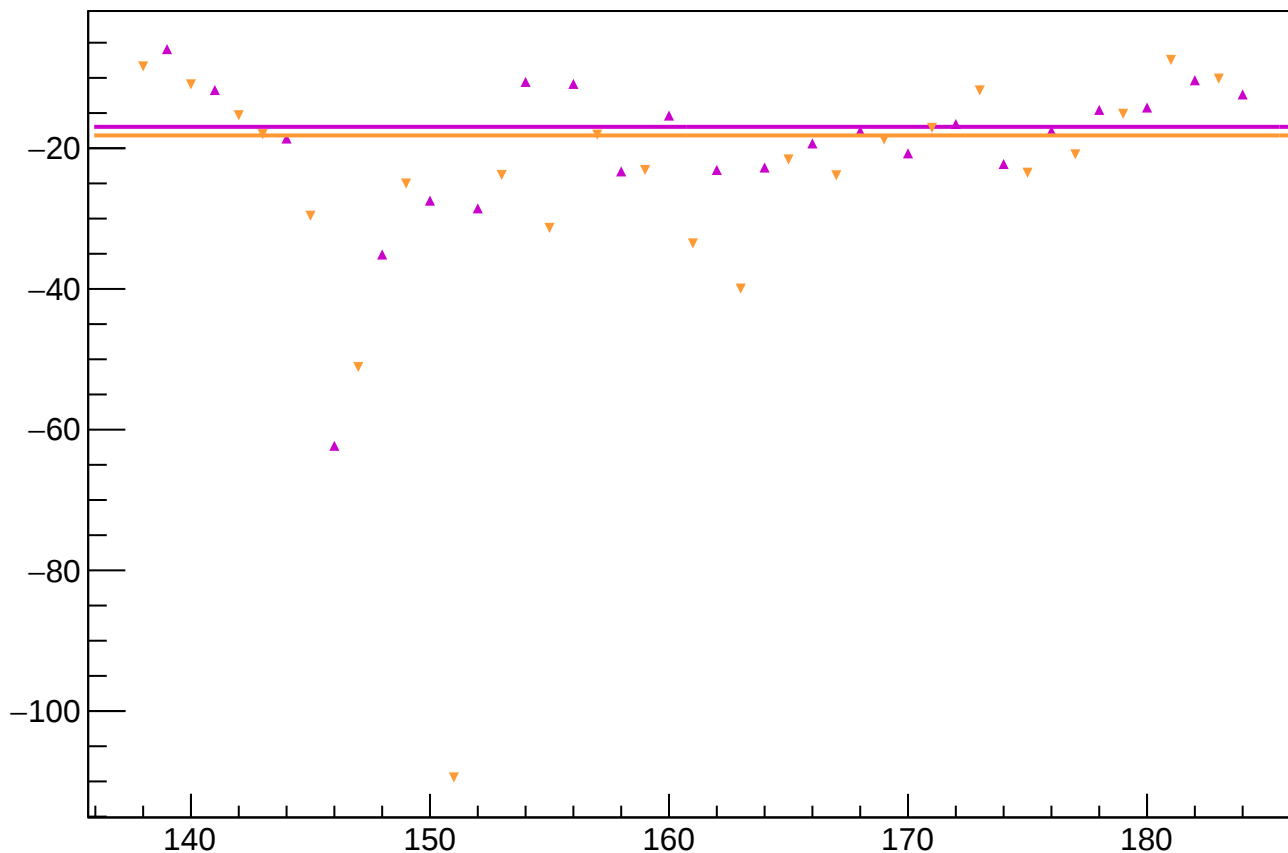
Left In: -2.949+/-0.011  $\chi^2/\text{NDF}$ : 770702.4/22

+ sign -0.965+/-0.010  $\chi^2/\text{NDF}$ : 1580425.0/40

All: -1.382+/-0.007  $\chi^2/\text{NDF}$ : 2994104.8/81

- sign -1.798+/-0.010  $\chi^2/\text{NDF}$ : 1410439.1/40

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -18.180 $\pm$ 0.039  $\chi^2$ /NDF:88474.5/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

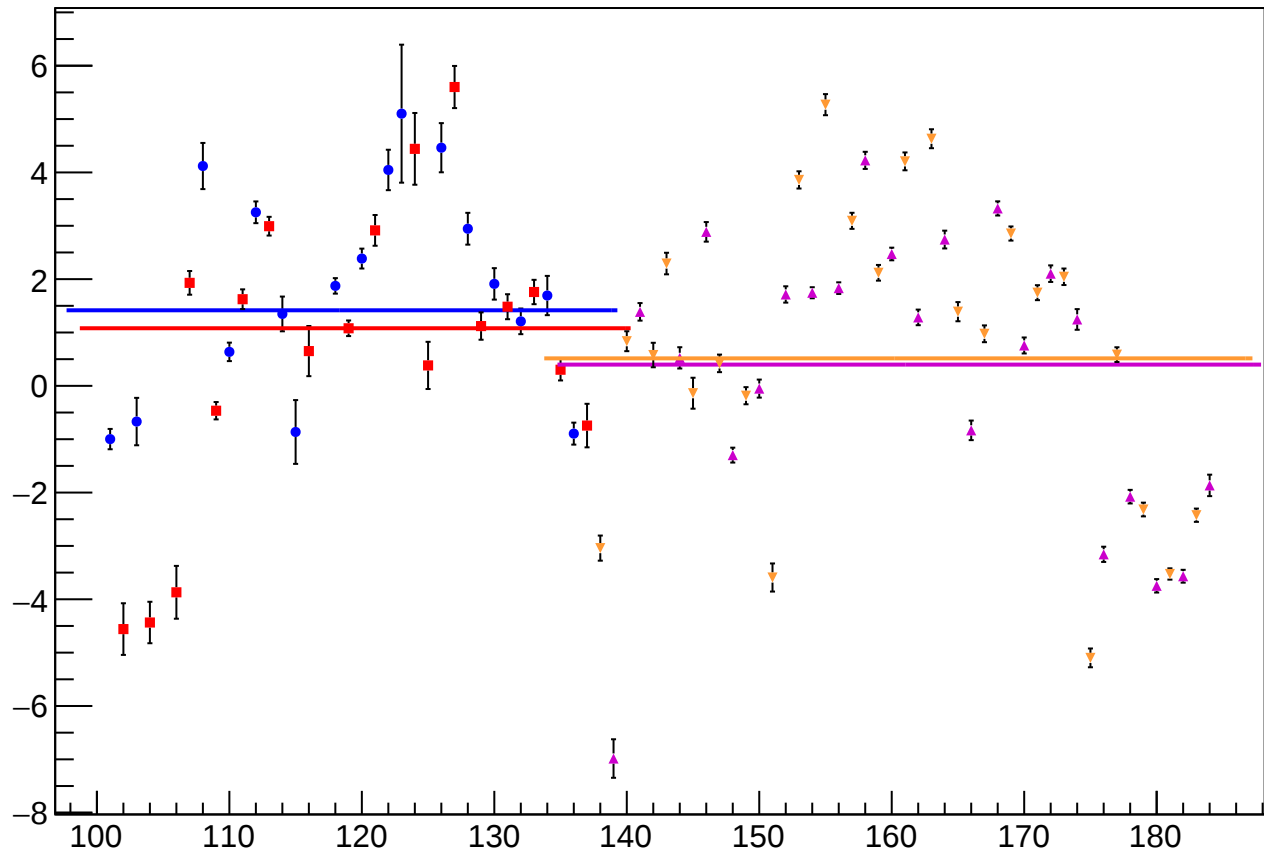
Left In: -16.958 $\pm$ 0.038  $\chi^2$ /NDF:44759.9/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.546 $\pm$ 0.027  $\chi^2$ /NDF: 133732.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.416 \pm 0.061$   $\chi^2/\text{NDF}$ : 631.2/16

Left Out:  $0.515 \pm 0.033$   $\chi^2/\text{NDF}$ : 7051.0/23

Right Out:  $1.080 \pm 0.058$   $\chi^2/\text{NDF}$ : 916.1/17

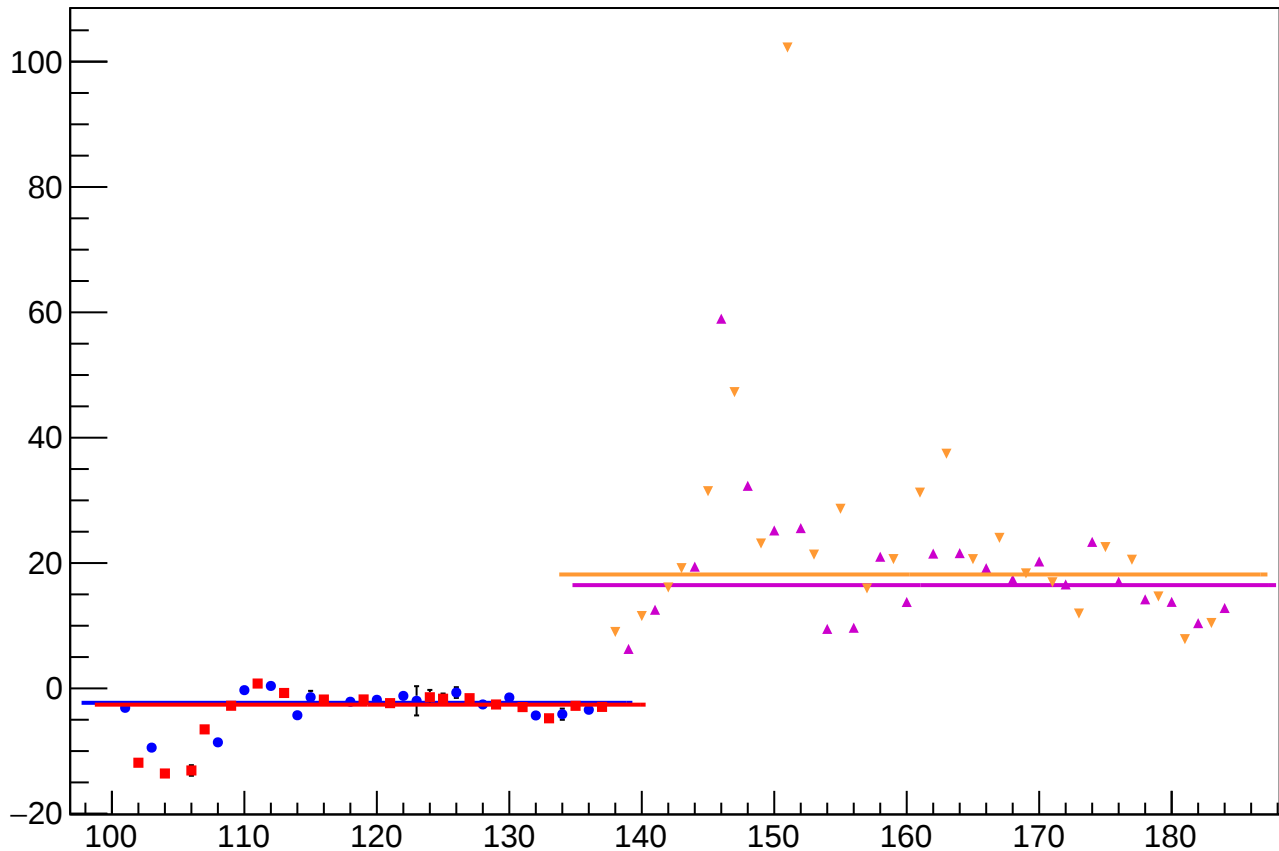
Left In:  $0.398 \pm 0.031$   $\chi^2/\text{NDF}$ : 6286.3/22

+ sign  $0.716 \pm 0.029$   $\chi^2/\text{NDF}$ : 7850.8/40

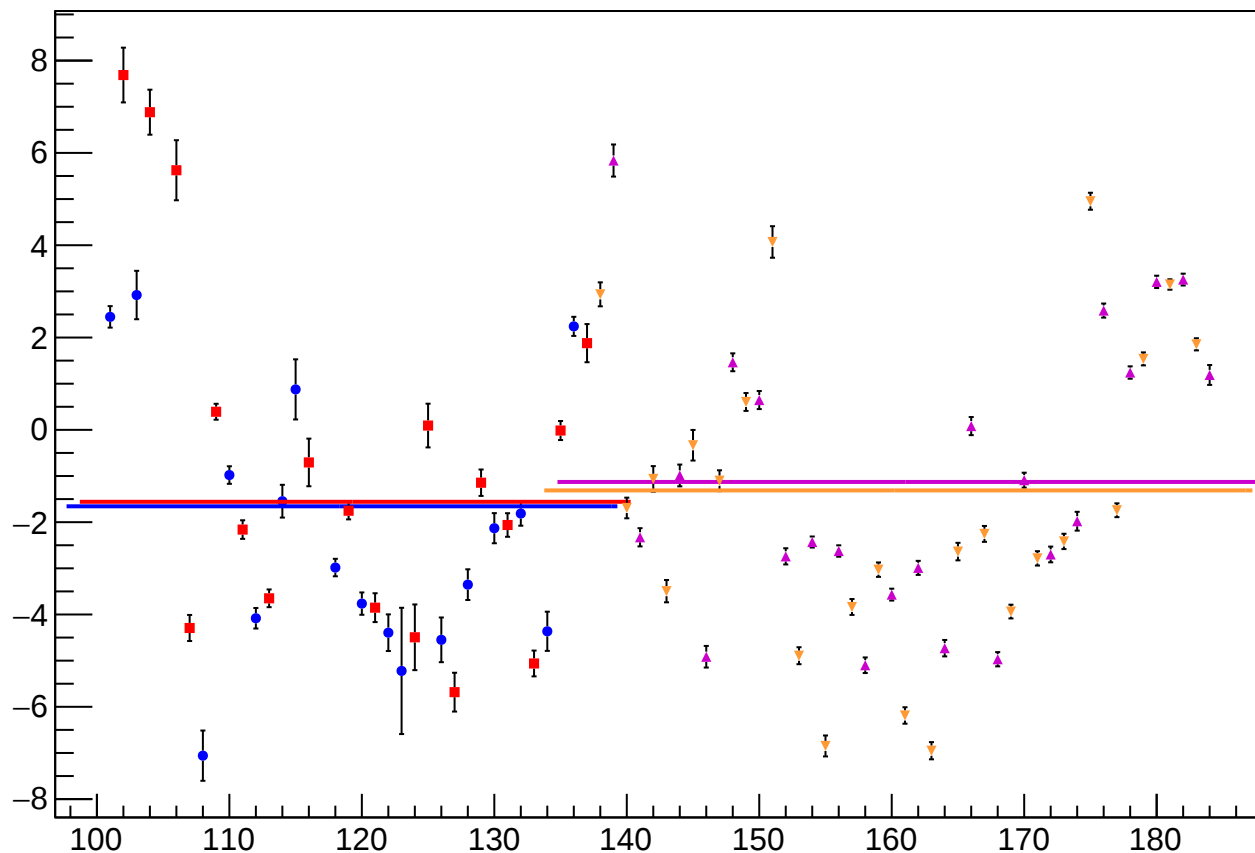
All:  $0.626 \pm 0.020$   $\chi^2/\text{NDF}$ : 15179.0/81

- sign  $0.546 \pm 0.027$   $\chi^2/\text{NDF}$ : 7309.8/40

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.656 \pm 0.070$   $\chi^2/\text{NDF}$ : 1271.1/16

Left Out:  $-1.312 \pm 0.036$   $\chi^2/\text{NDF}$ : 7921.4/23

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

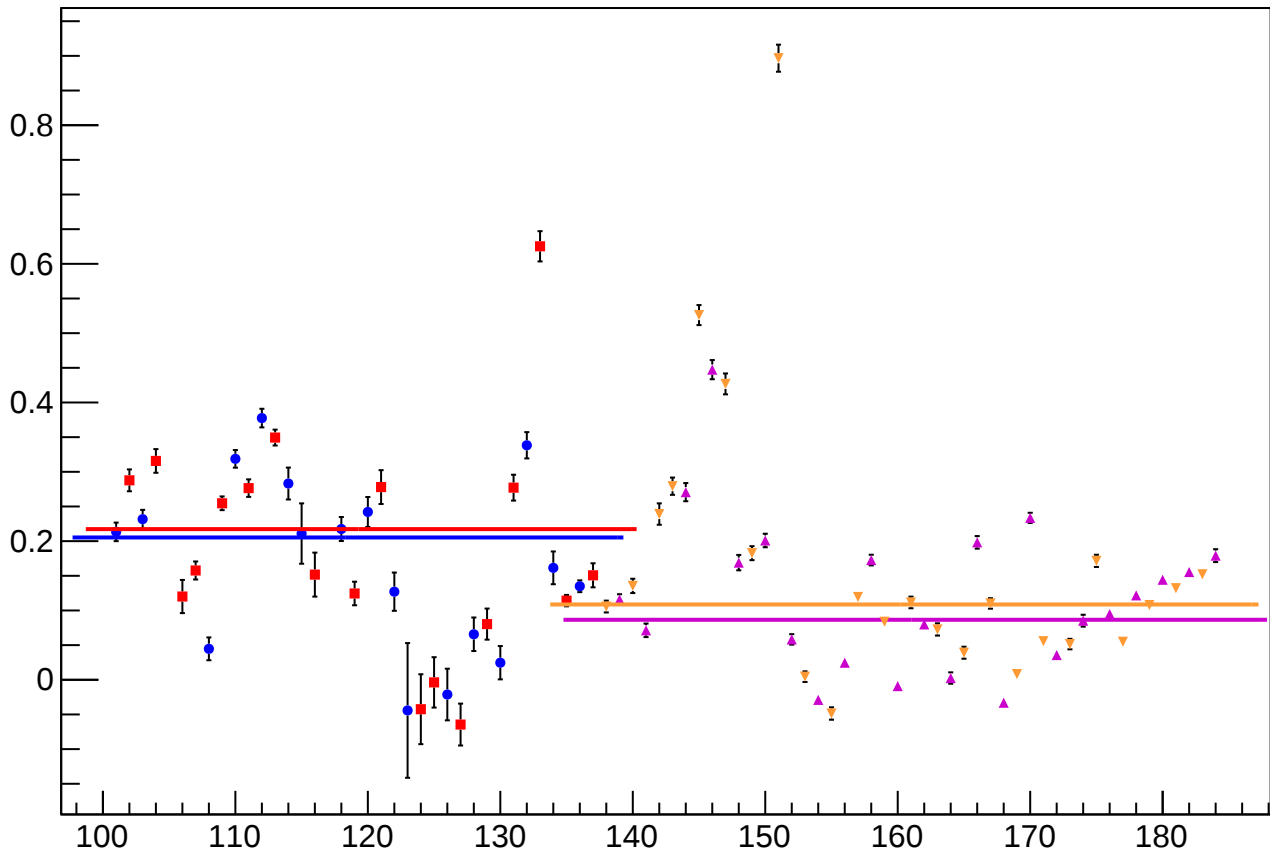
Left In:  $-1.129 \pm 0.034$   $\chi^2/\text{NDF}$ : 6778.7/22

+ sign  $-1.384 \pm 0.032$   $\chi^2/\text{NDF}$ : 9211.4/40

All:  $-1.297 \pm 0.022$   $\chi^2/\text{NDF}$ : 17522.5/81

- sign  $-1.220 \pm 0.030$   $\chi^2/\text{NDF}$ : 8297.1/40

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In:  $0.205 \pm 0.004$   $\chi^2/\text{NDF}: 620.5/16$

Left Out:  $0.109 \pm 0.002$   $\chi^2/\text{NDF}: 4357.9/23$

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}: 1019.4/17$

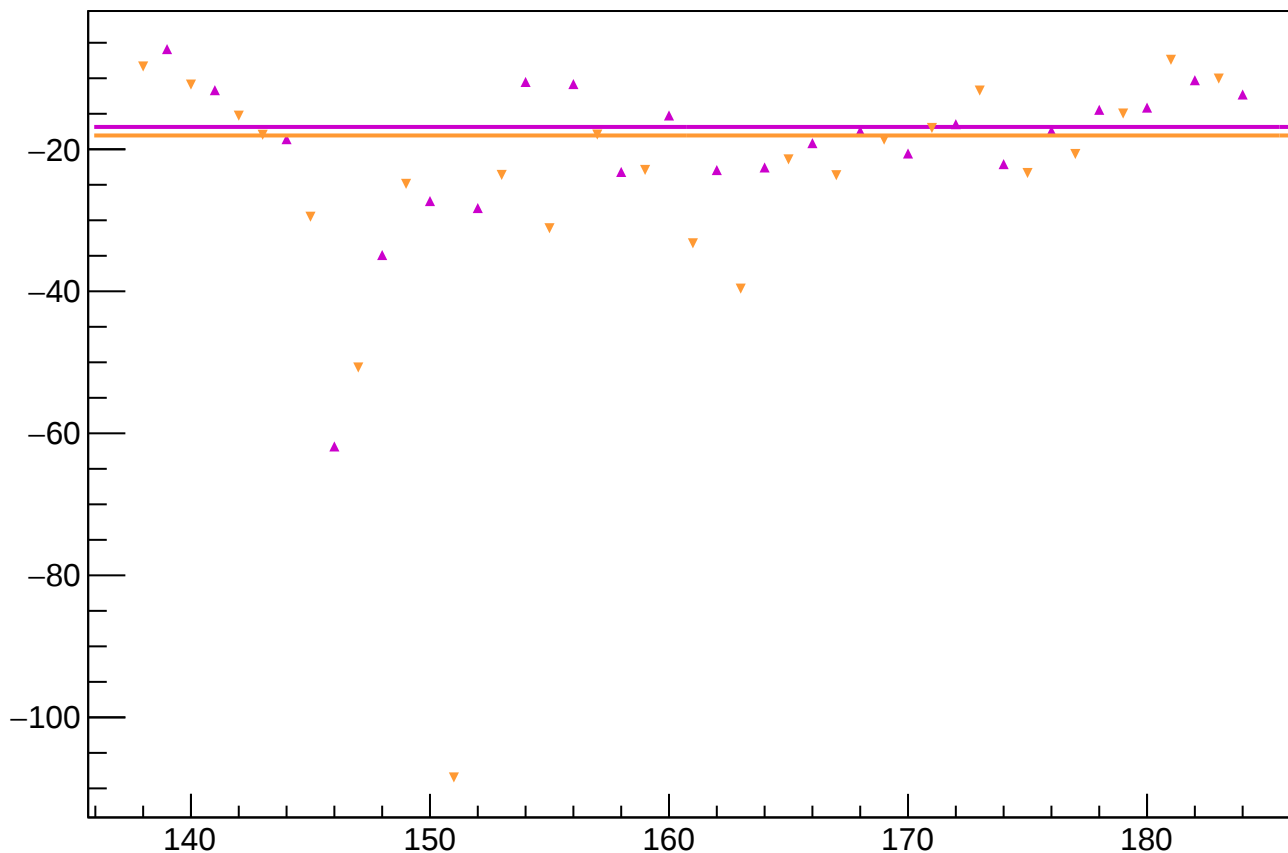
Left In:  $0.087 \pm 0.001$   $\chi^2/\text{NDF}: 3661.4/22$

+ sign  $0.122 \pm 0.002$   $\chi^2/\text{NDF}: 5450.5/40$

All:  $0.113 \pm 0.001$   $\chi^2/\text{NDF}: 11266.7/81$

- sign  $0.105 \pm 0.001$   $\chi^2/\text{NDF}: 5749.8/40$

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -18.056 $\pm$ 0.039  $\chi^2$ /NDF:88314.0/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

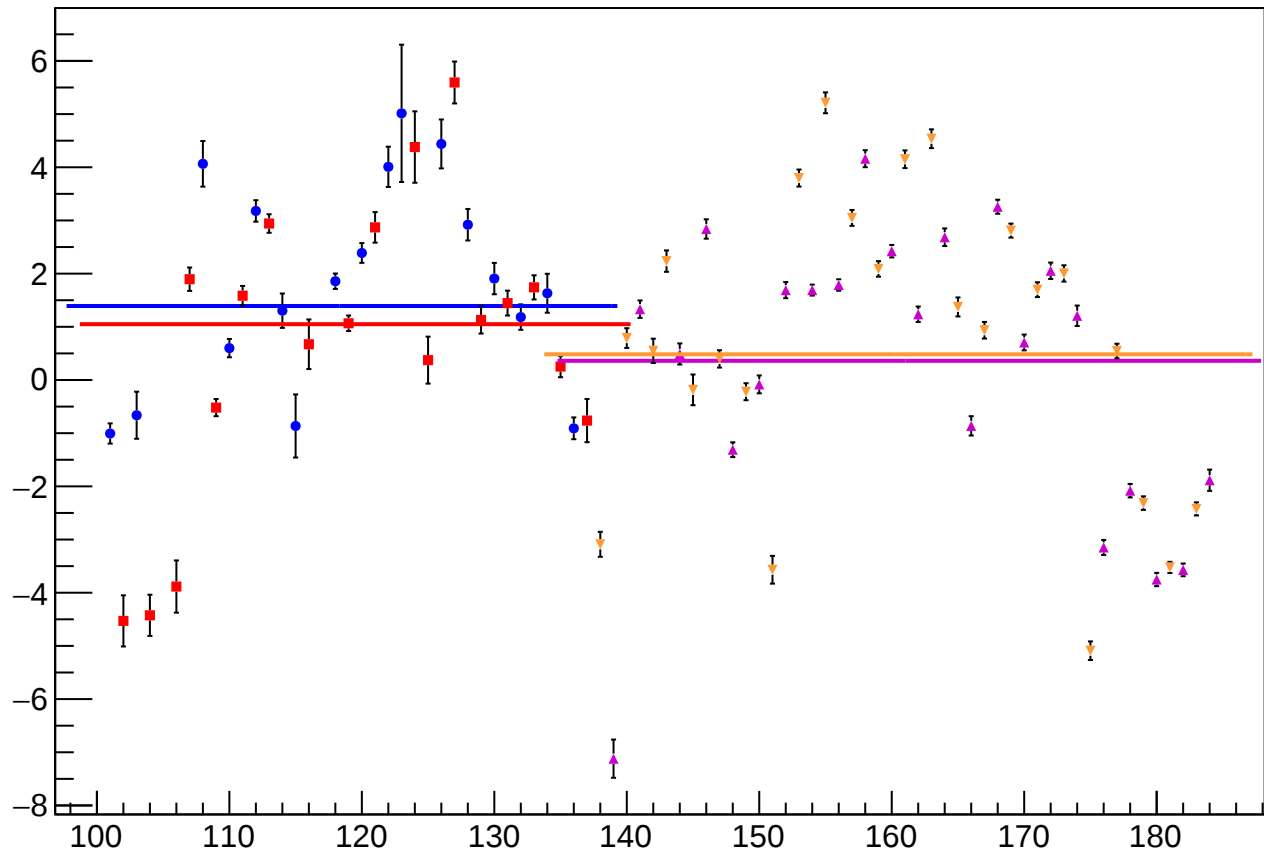
Left In: -16.854 $\pm$ 0.038  $\chi^2$ /NDF:44680.7/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.433 $\pm$ 0.027  $\chi^2$ /NDF: 133483.9/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.391 \pm 0.061$   $\chi^2/\text{NDF}: 629.2/16$

Left Out:  $0.483 \pm 0.032$   $\chi^2/\text{NDF}: 7034.5/23$

Right Out:  $1.049 \pm 0.058$   $\chi^2/\text{NDF}: 919.8/17$

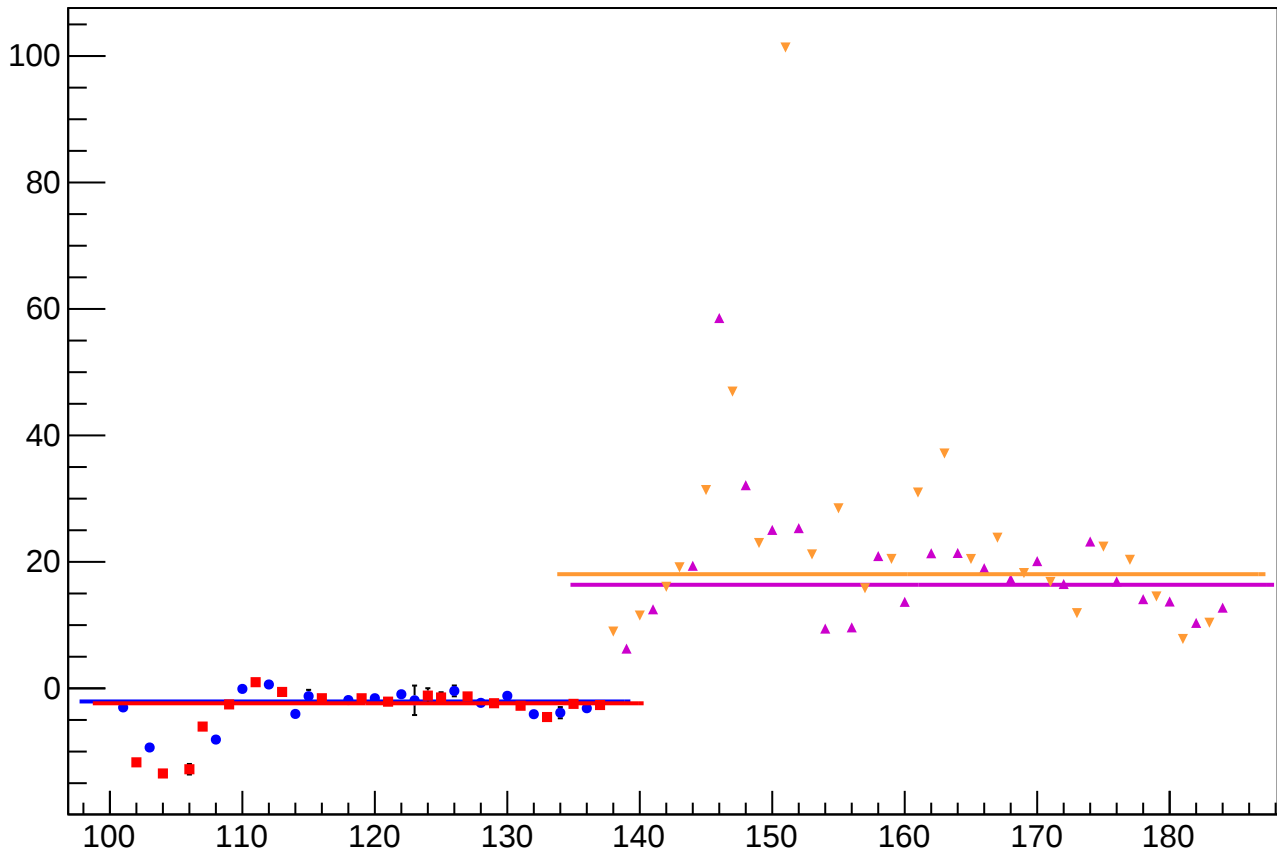
Left In:  $0.361 \pm 0.030$   $\chi^2/\text{NDF}: 6273.5/22$

+ sign  $0.684 \pm 0.029$   $\chi^2/\text{NDF}: 7836.7/40$

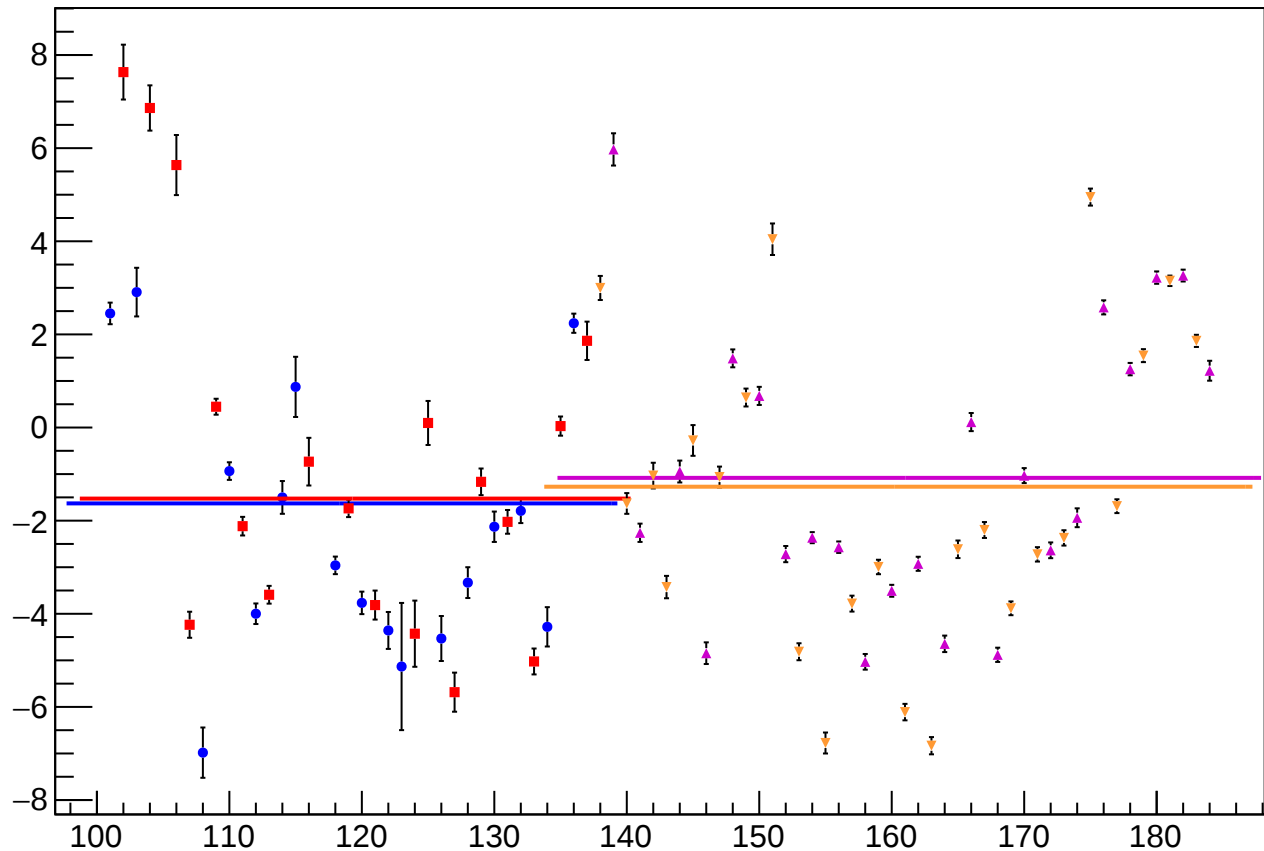
All:  $0.592 \pm 0.020$   $\chi^2/\text{NDF}: 15160.3/81$

- sign  $0.510 \pm 0.027$   $\chi^2/\text{NDF}: 7303.9/40$

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 1266.4/16

Left Out:  $-1.271 \pm 0.036$   $\chi^2/\text{NDF}$ : 7902.0/23

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

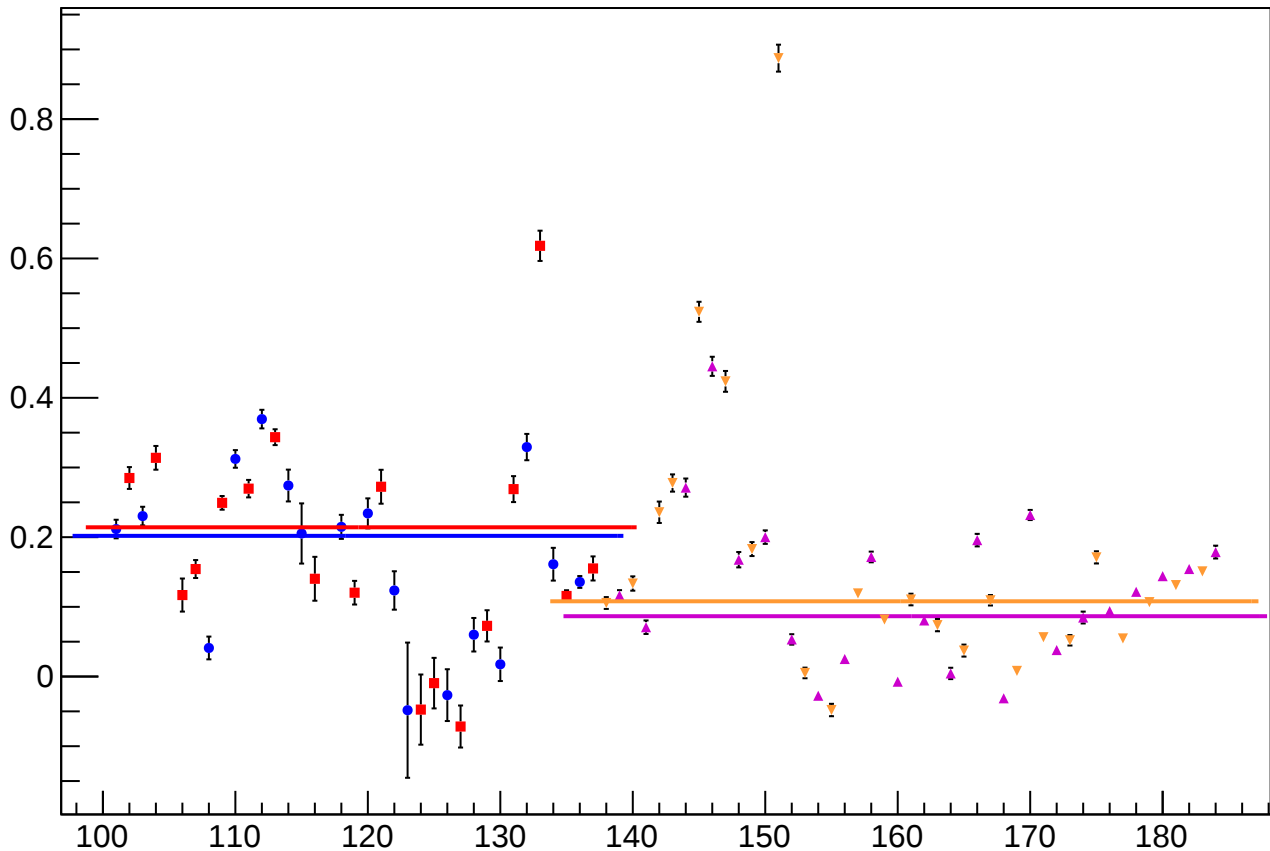
Left In:  $-1.081 \pm 0.034$   $\chi^2/\text{NDF}$ : 6764.0/22

+ sign  $-1.346 \pm 0.032$   $\chi^2/\text{NDF}$ : 9189.0/40

All:  $-1.255 \pm 0.022$   $\chi^2/\text{NDF}$ : 17492.9/81

- sign  $-1.175 \pm 0.030$   $\chi^2/\text{NDF}$ : 8288.8/40

# reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.202 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 604.6/16

Left Out: 0.108 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 4348.9/23

Right Out: 0.214 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 1001.6/17

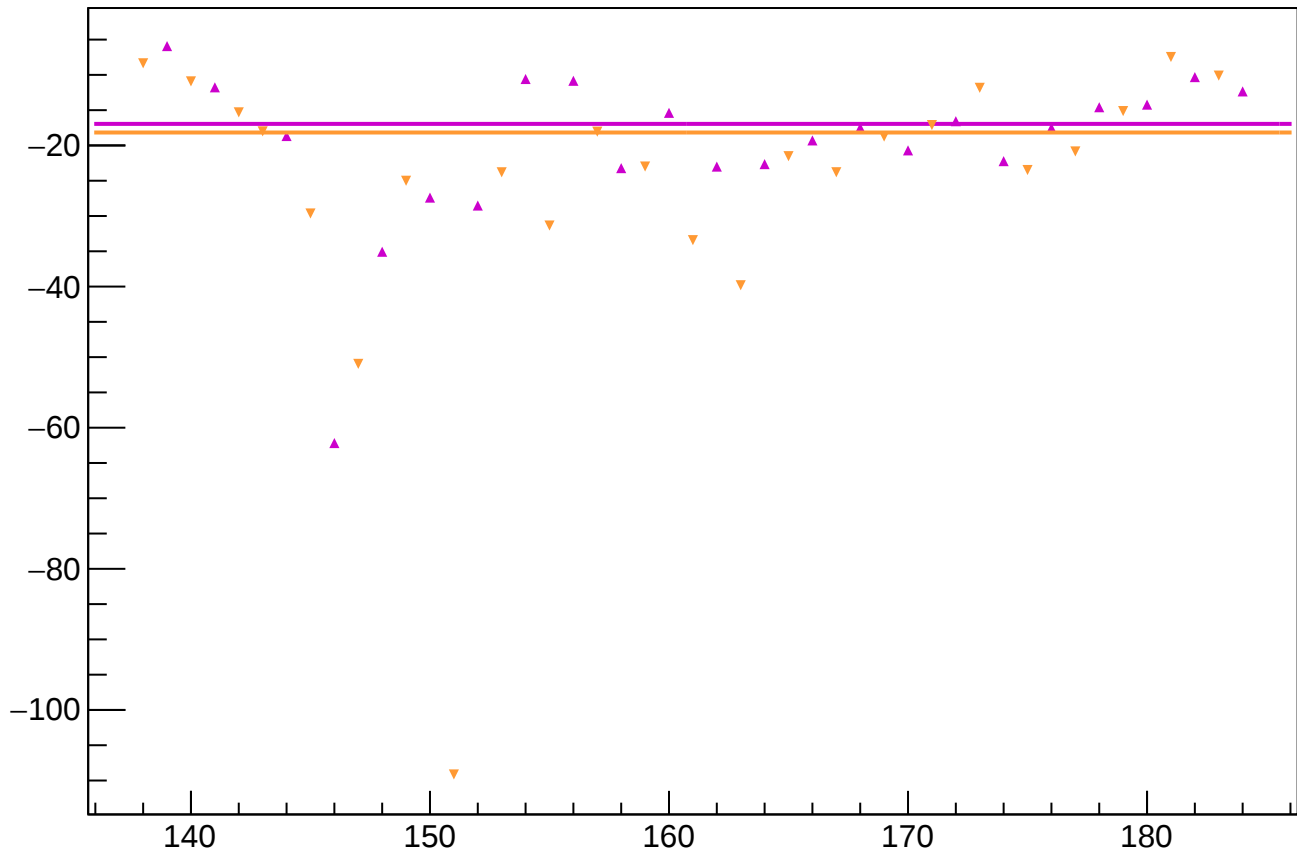
Left In: 0.087 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 3631.4/22

+ sign 0.121 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 5404.0/40

All: 0.112 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 11127.7/81

- sign 0.104 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 5661.0/40

# reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -18.166 $\pm$ 0.039  $\chi^2$ /NDF:88447.8/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

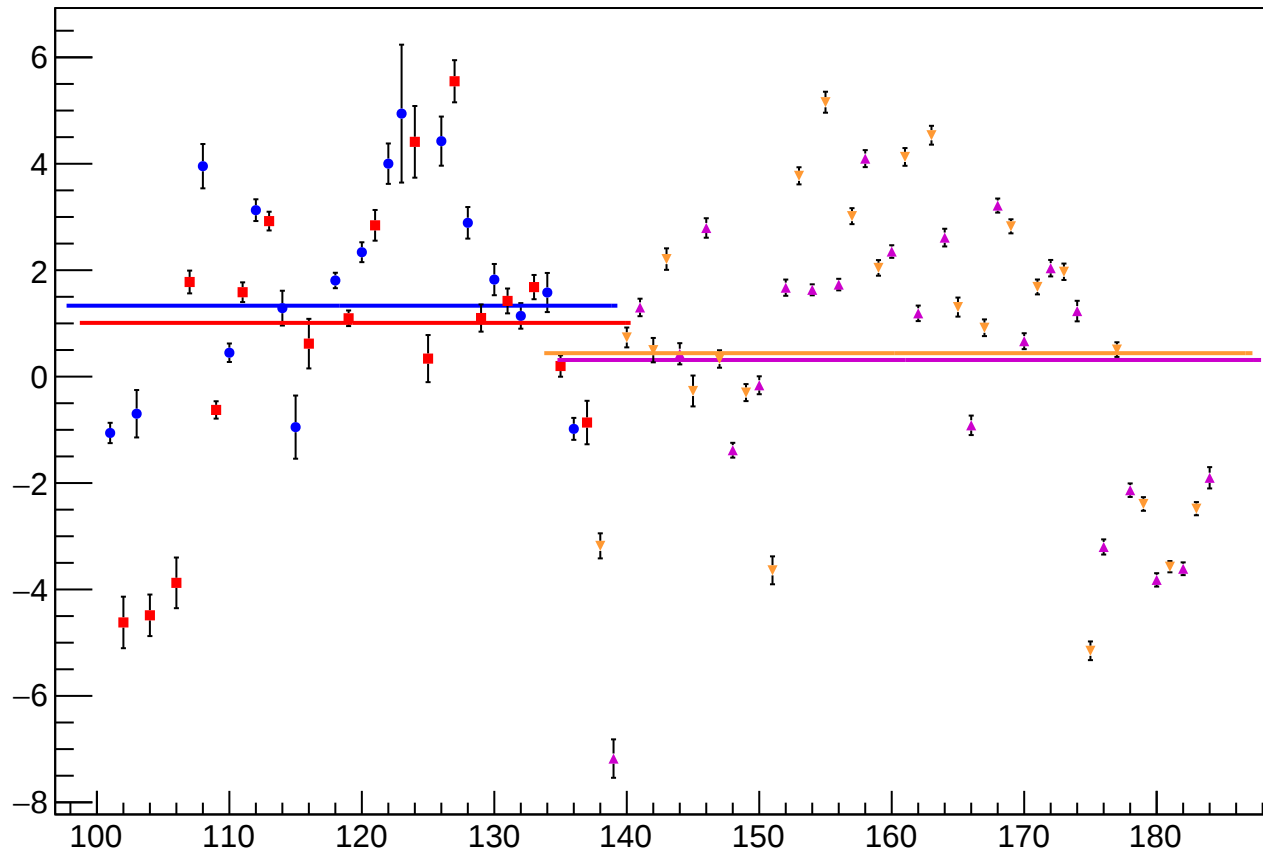
Left In: -16.945 $\pm$ 0.038  $\chi^2$ /NDF:44756.2/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.533 $\pm$ 0.027  $\chi^2$ /NDF: 133704.8/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.333 \pm 0.061$   $\chi^2/\text{NDF}$ : 634.6/16

Left Out:  $0.441 \pm 0.033$   $\chi^2/\text{NDF}$ : 7058.1/23

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}$ : 930.3/17

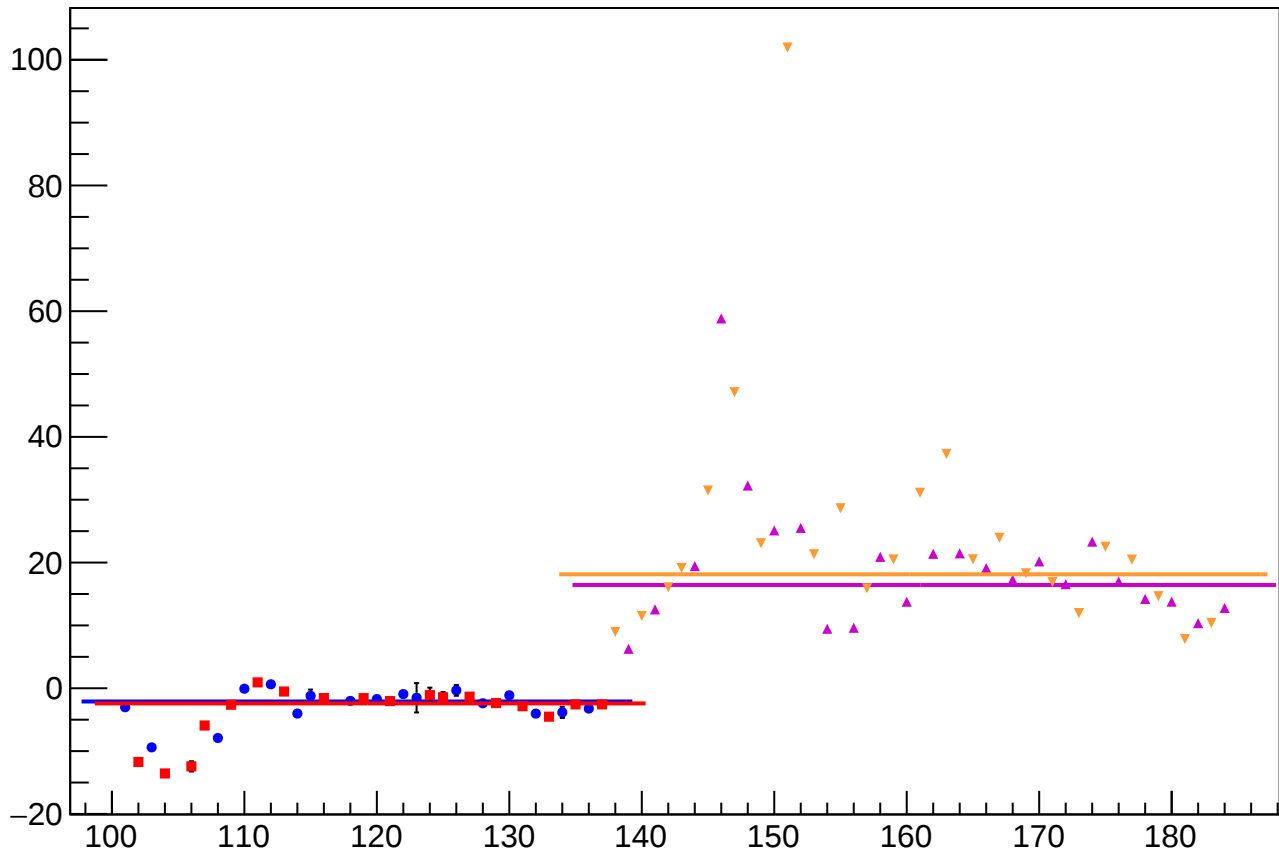
Left In:  $0.313 \pm 0.031$   $\chi^2/\text{NDF}$ : 6235.0/22

+ sign  $0.638 \pm 0.029$   $\chi^2/\text{NDF}$ : 7858.2/40

All:  $0.546 \pm 0.020$   $\chi^2/\text{NDF}$ : 15155.9/81

- sign  $0.464 \pm 0.027$   $\chi^2/\text{NDF}$ : 7278.2/40

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.104 \pm 0.111$   $\chi^2/\text{NDF}: 440.3/16$

Left Out:  $18.129 \pm 0.039$   $\chi^2/\text{NDF}: 77806.9/23$

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}: 886.9/17$

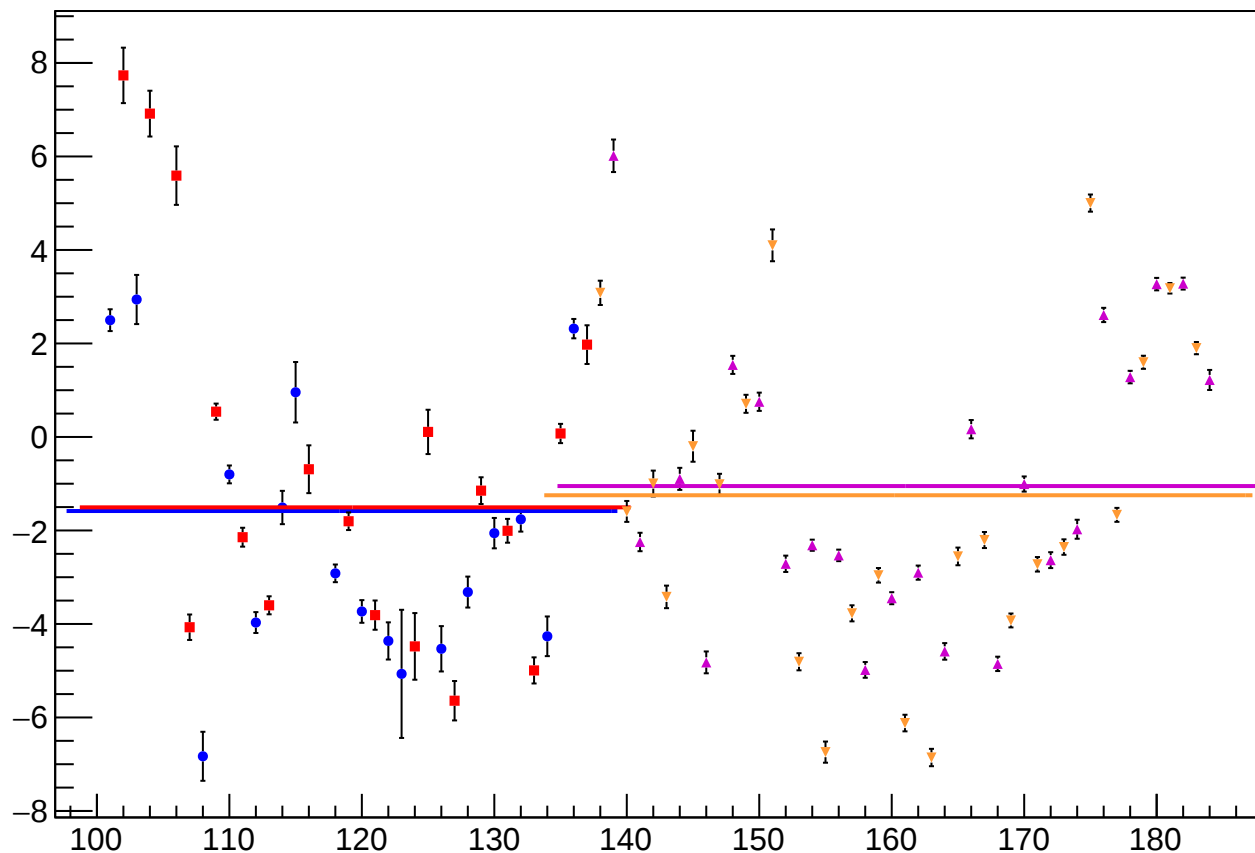
Left In:  $16.431 \pm 0.038$   $\chi^2/\text{NDF}: 41337.1/22$

+ sign  $15.857 \pm 0.037$   $\chi^2/\text{NDF}: 107808.0/40$

All:  $14.915 \pm 0.026$   $\chi^2/\text{NDF}: 182789.6/81$

- sign  $14.075 \pm 0.035$   $\chi^2/\text{NDF}: 73765.7/40$

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-1.247 \pm 0.036$   $\chi^2/\text{NDF}$ : 7929.4/23

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

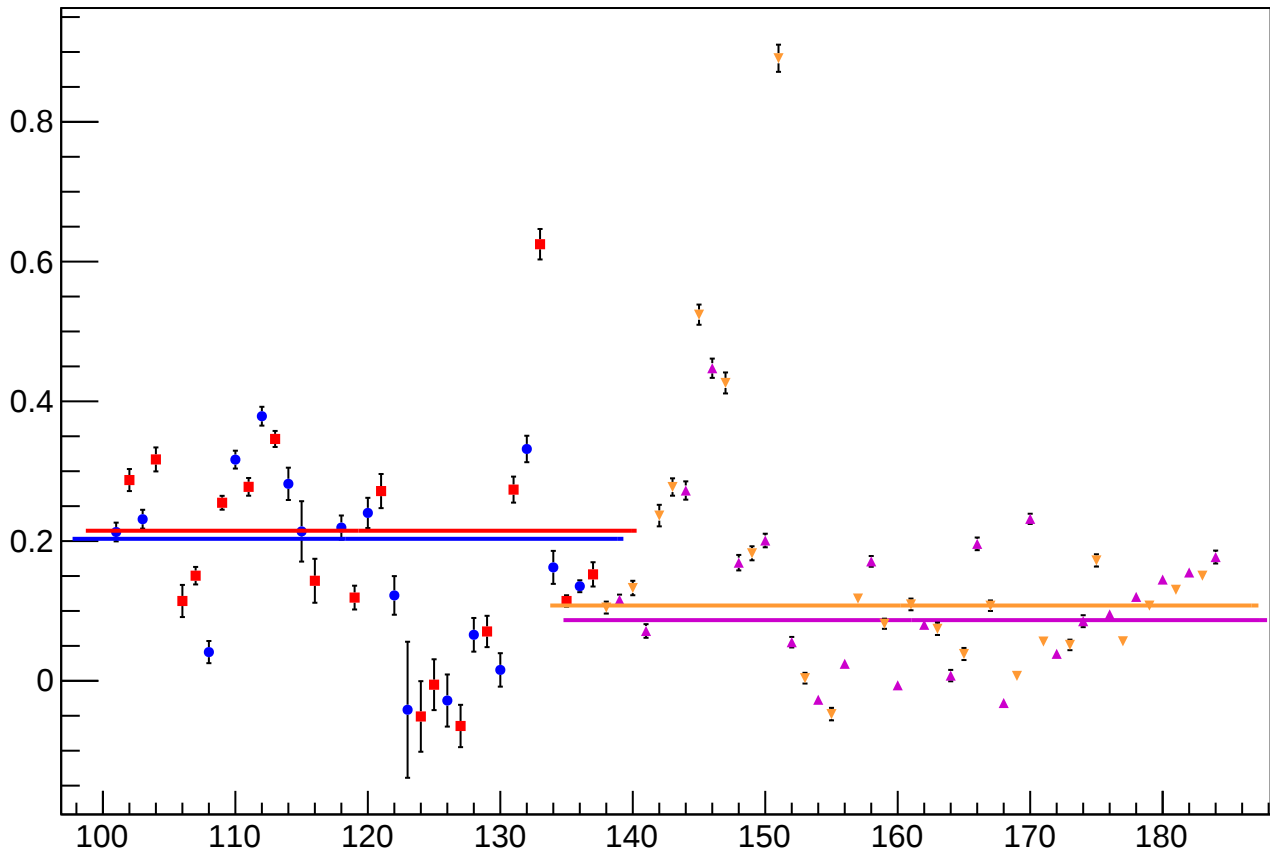
Left In:  $-1.050 \pm 0.034$   $\chi^2/\text{NDF}$ : 6713.0/22

+ sign  $-1.318 \pm 0.032$   $\chi^2/\text{NDF}$ : 9219.6/40

All:  $-1.226 \pm 0.022$   $\chi^2/\text{NDF}$ : 17485.5/81

- sign  $-1.146 \pm 0.030$   $\chi^2/\text{NDF}$ : 8250.8/40

# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $0.203 \pm 0.004$   $\chi^2/\text{NDF}$ : 632.8/16

Left Out:  $0.108 \pm 0.002$   $\chi^2/\text{NDF}$ : 4330.9/23

Right Out:  $0.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 1033.0/17

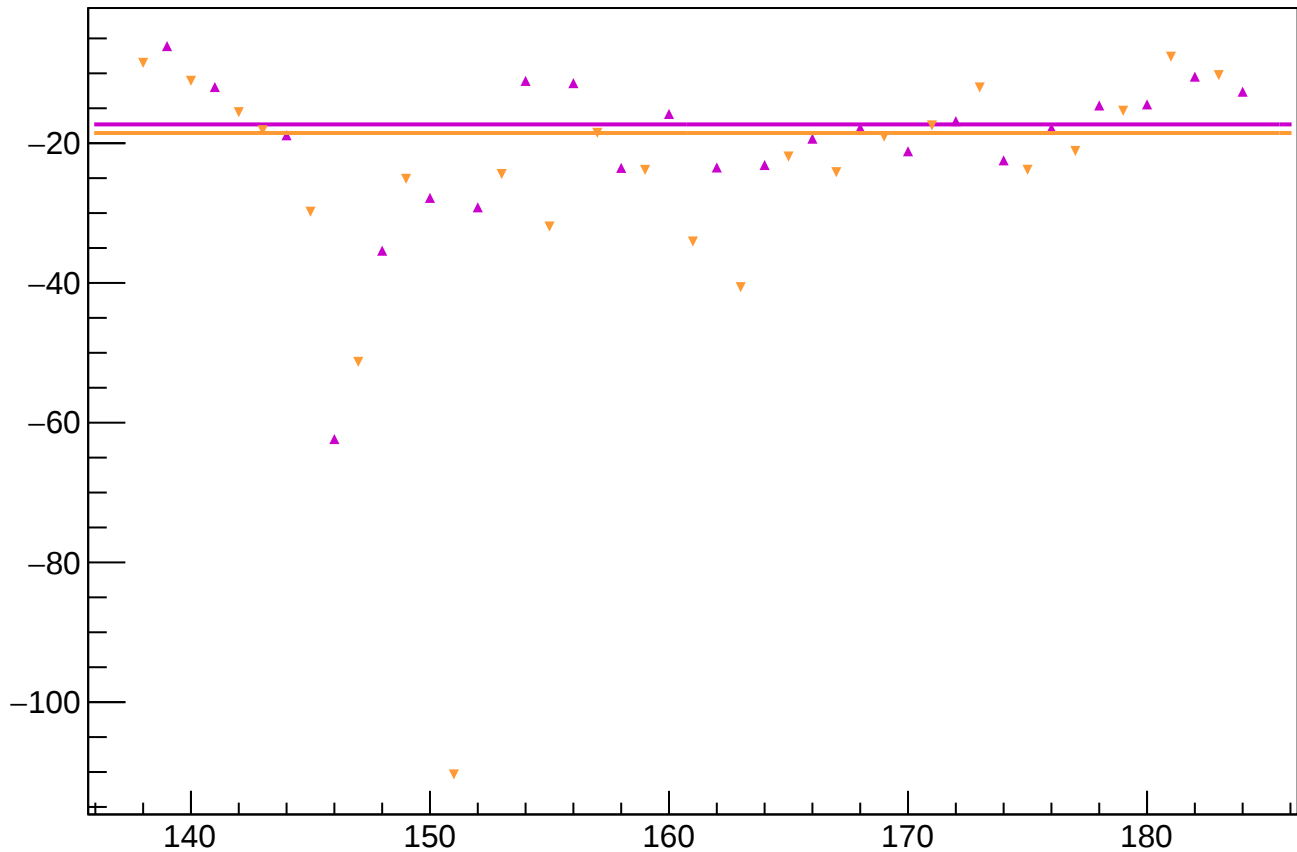
Left In:  $0.087 \pm 0.001$   $\chi^2/\text{NDF}$ : 3604.3/22

+ sign  $0.121 \pm 0.002$   $\chi^2/\text{NDF}$ : 5425.5/40

All:  $0.112 \pm 0.001$   $\chi^2/\text{NDF}$ : 11151.4/81

- sign  $0.105 \pm 0.001$   $\chi^2/\text{NDF}$ : 5666.5/40

reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -18.539 $\pm$ 0.040  $\chi^2$ /NDF:87786.8/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

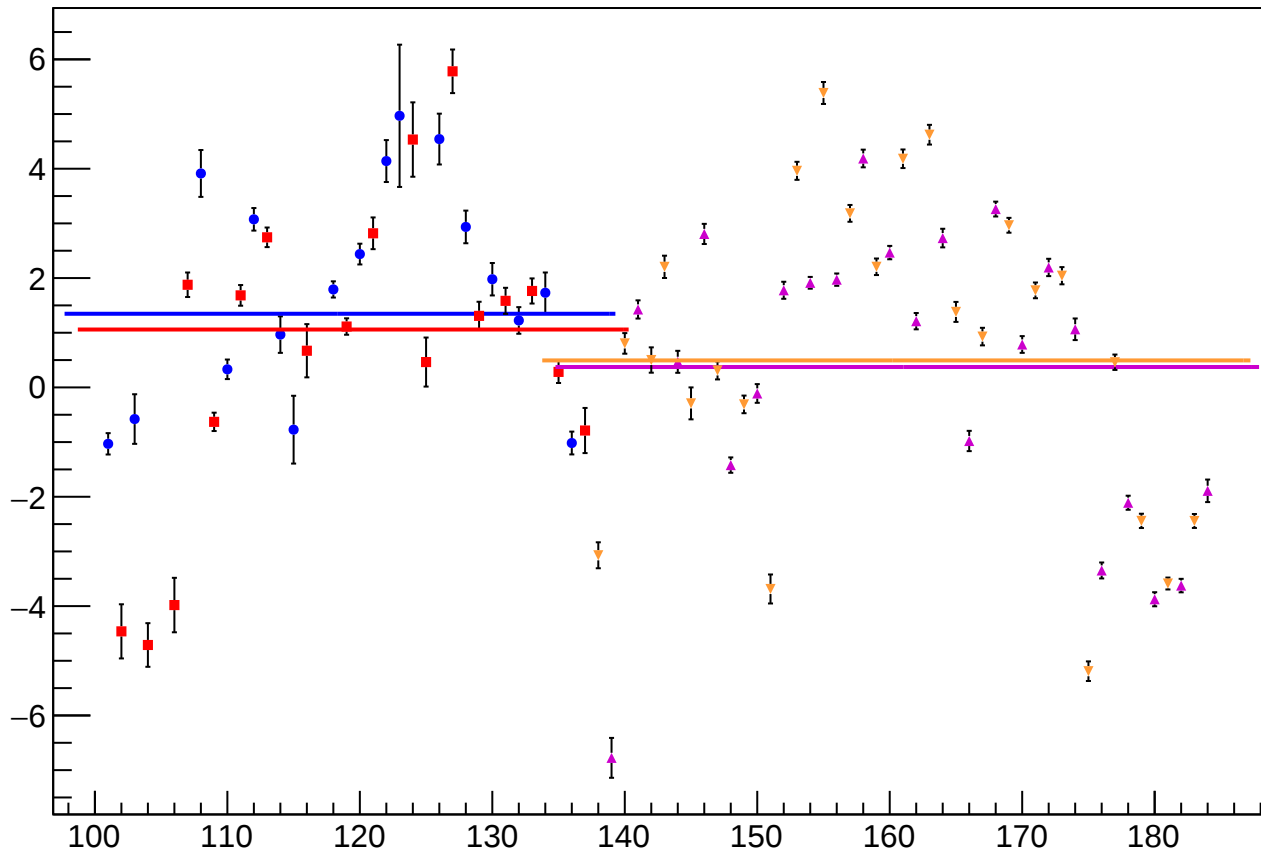
Left In: -17.309 $\pm$ 0.039  $\chi^2$ /NDF:43807.0/22

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.902 $\pm$ 0.028  $\chi^2$ /NDF: 132078.3/46

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.347 \pm 0.062$   $\chi^2/\text{NDF}$ : 630.1/16

Left Out:  $0.494 \pm 0.033$   $\chi^2/\text{NDF}$ : 7022.3/23

Right Out:  $1.059 \pm 0.059$   $\chi^2/\text{NDF}$ : 905.3/17

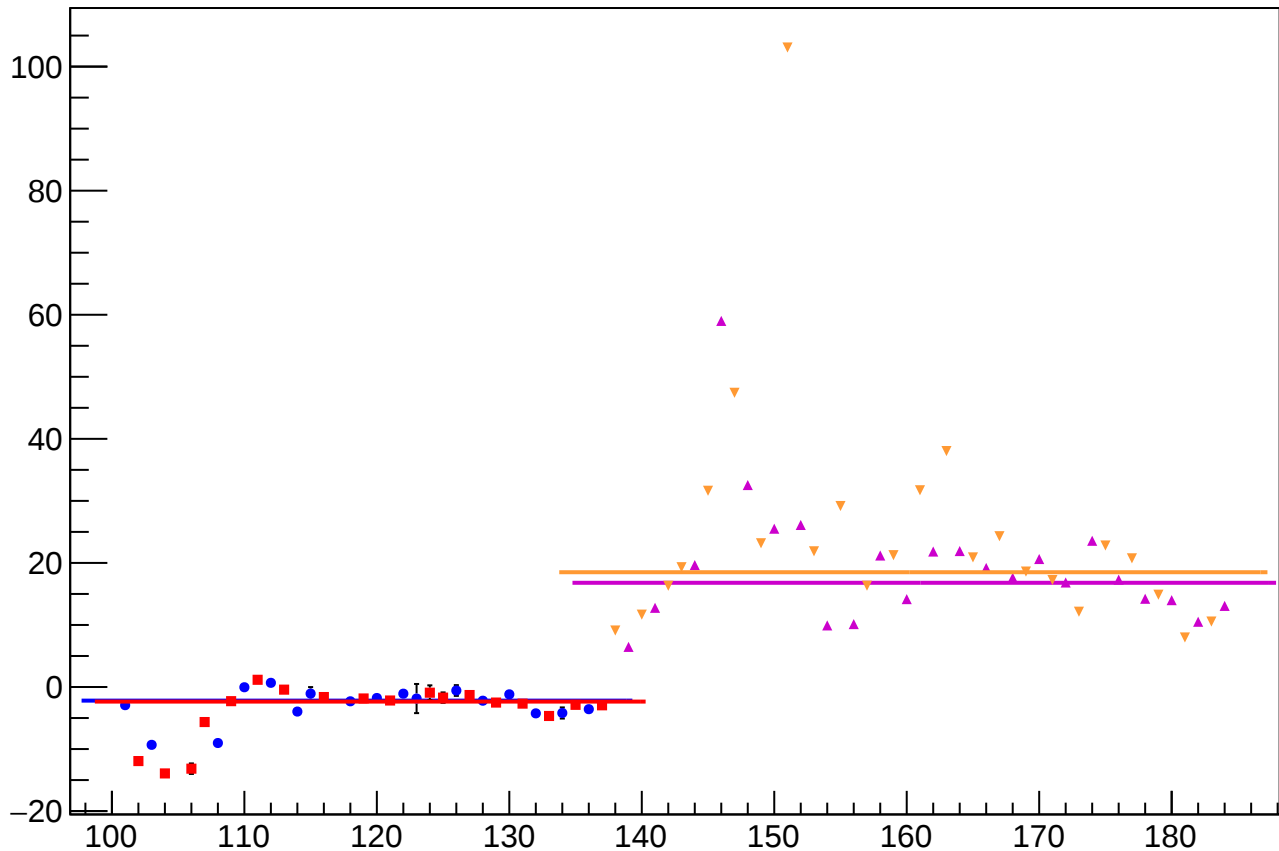
Left In:  $0.373 \pm 0.031$   $\chi^2/\text{NDF}$ : 6263.9/22

+ sign  $0.684 \pm 0.029$   $\chi^2/\text{NDF}$ : 7798.4/40

All:  $0.598 \pm 0.020$   $\chi^2/\text{NDF}$ : 15088.0/81

- sign  $0.523 \pm 0.028$   $\chi^2/\text{NDF}$ : 7273.7/40

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.194 \pm 0.113$   $\chi^2/\text{NDF}: 463.5/16$

Left Out:  $18.500 \pm 0.040$   $\chi^2/\text{NDF}: 77185.5/23$

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$

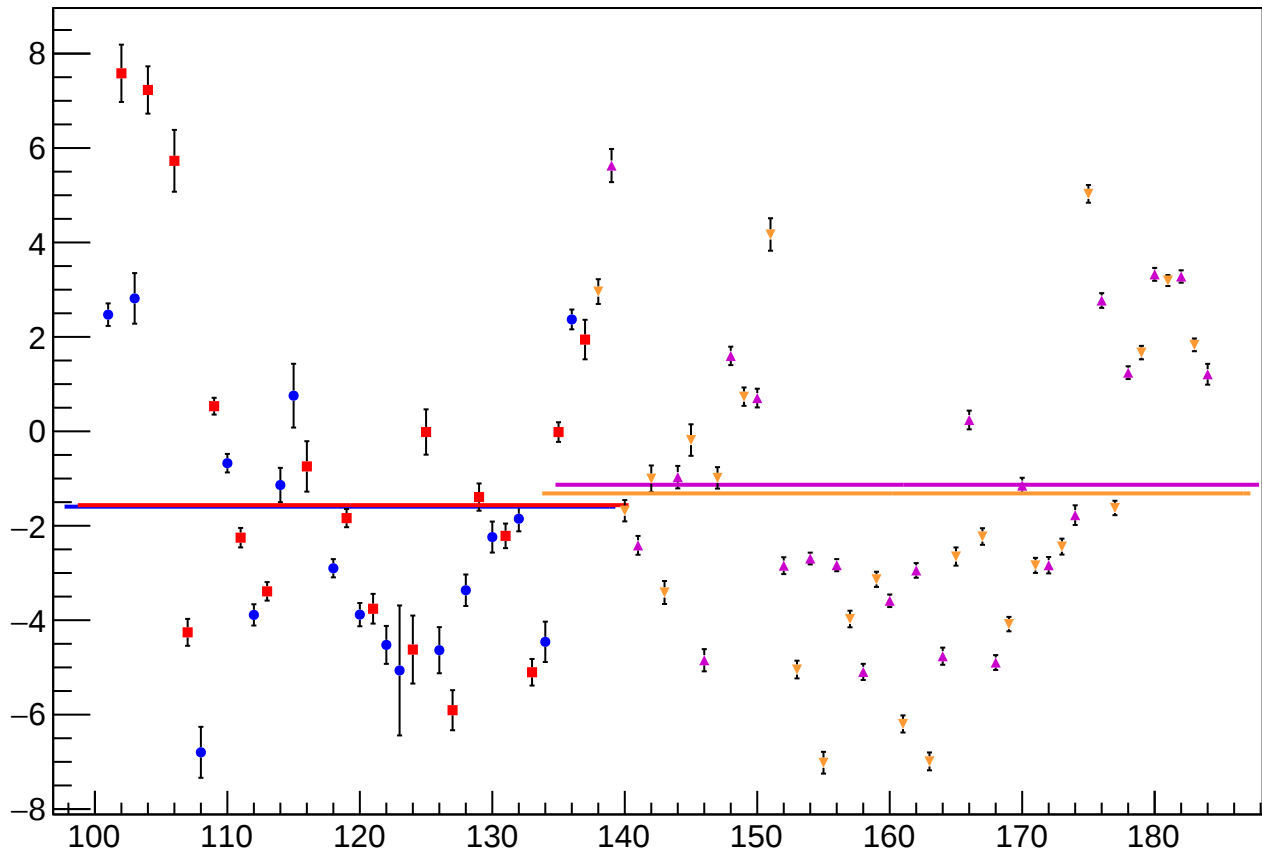
Left In:  $16.798 \pm 0.038$   $\chi^2/\text{NDF}: 40258.9/22$

+ sign  $16.156 \pm 0.038$   $\chi^2/\text{NDF}: 107466.7/40$

All:  $15.224 \pm 0.026$   $\chi^2/\text{NDF}: 180987.3/81$

- sign  $14.391 \pm 0.036$   $\chi^2/\text{NDF}: 72381.5/40$

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.595 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 1255.4/16

Left Out: -1.315 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 7886.8/23

Right Out: -1.564 $\pm$ 0.067  $\chi^2/\text{NDF}$ : 1461.9/17

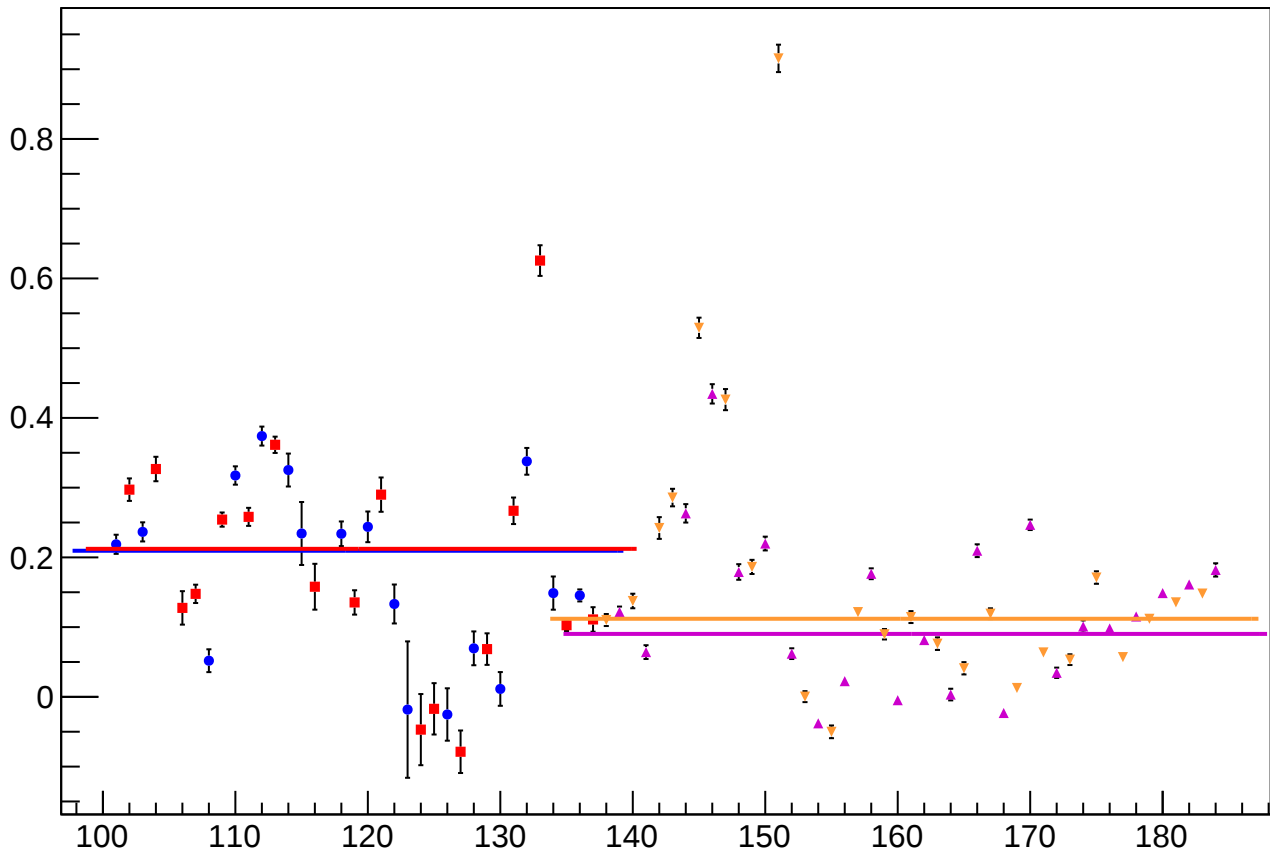
Left In: -1.132 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 6743.4/22

+ sign -1.374 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 9154.3/40

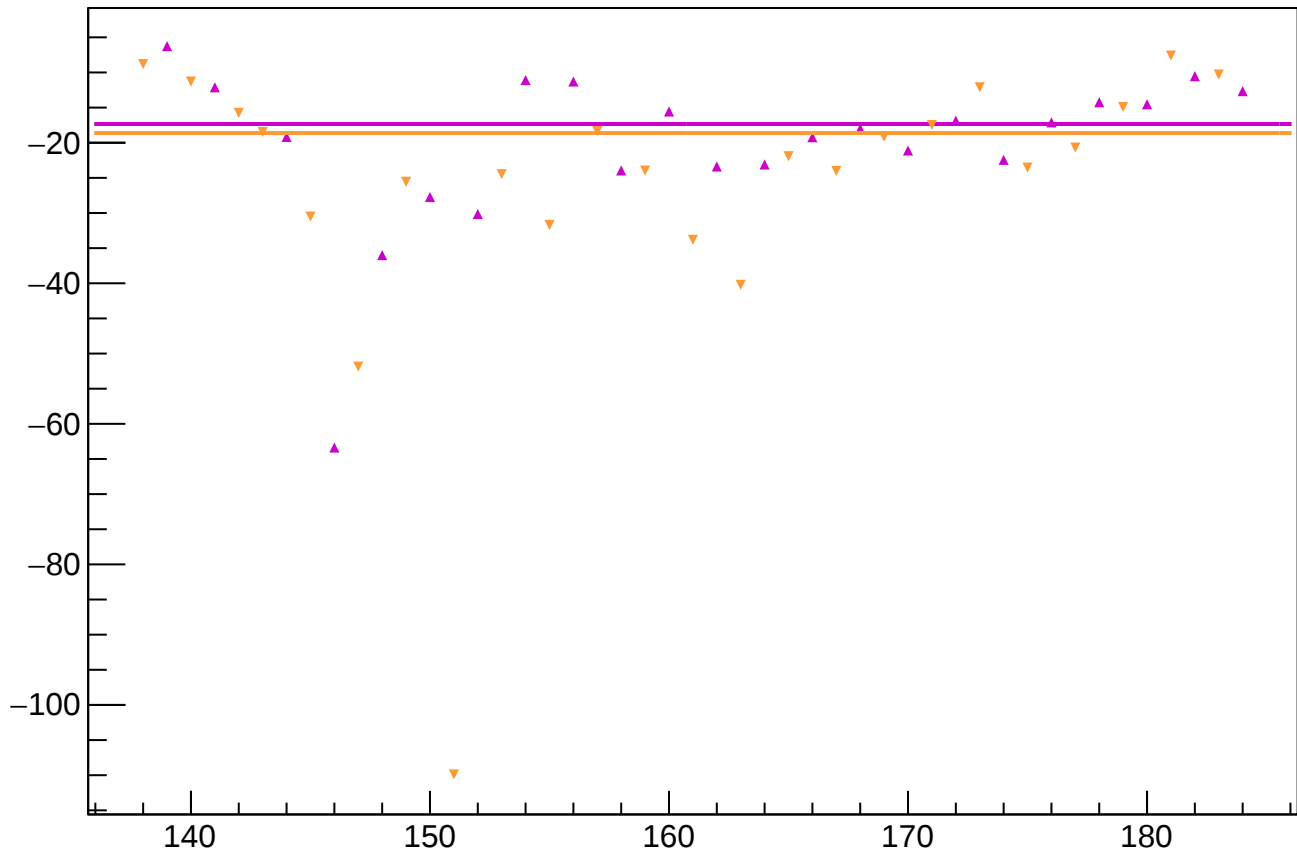
All: -1.294 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 17403.4/81

- sign -1.223 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 8238.0/40

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



# reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.620 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 86309.6/23

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

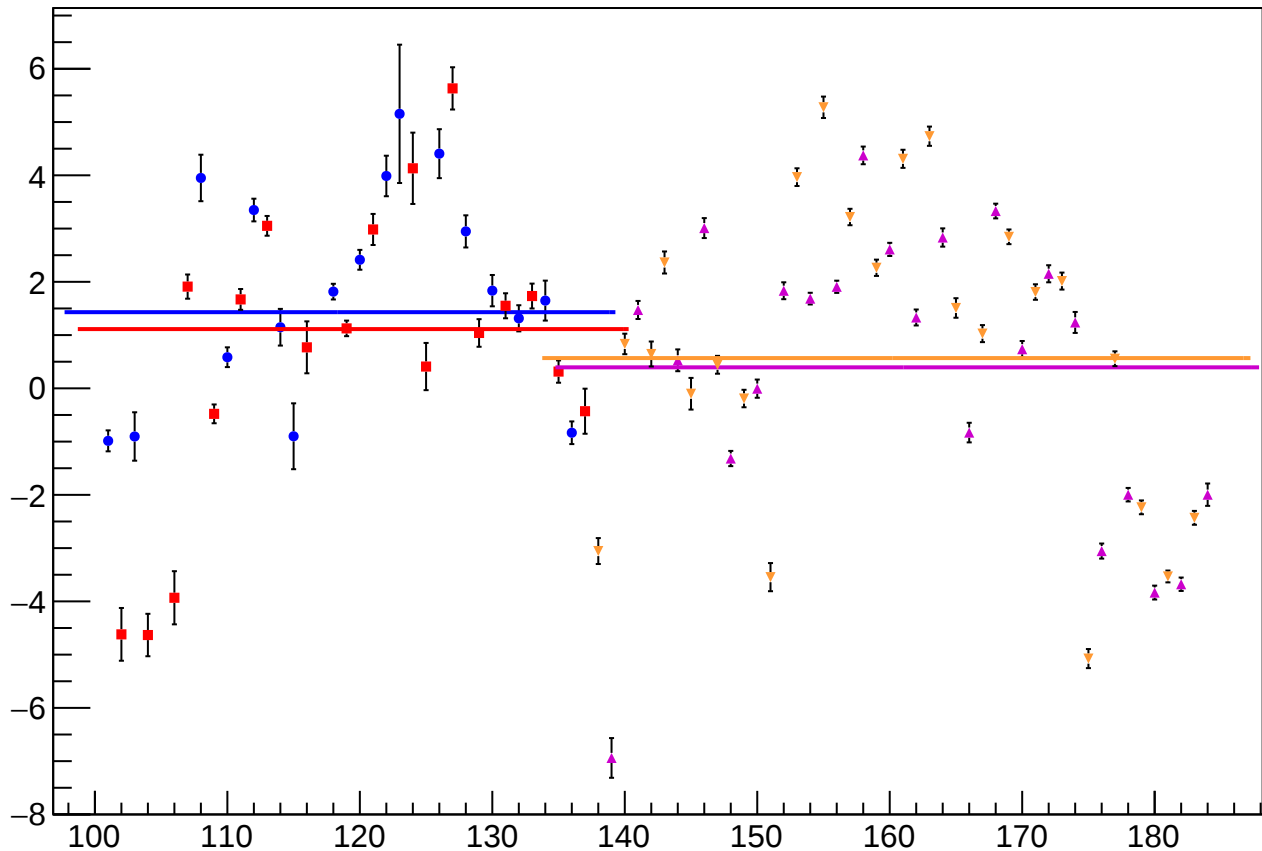
Left In: -17.335 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 44078.7/22

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.954 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 130907.7/46

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.430 \pm 0.063$   $\chi^2/\text{NDF}: 598.0/16$

Left Out:  $0.568 \pm 0.034$   $\chi^2/\text{NDF}: 6774.8/23$

Right Out:  $1.113 \pm 0.060$   $\chi^2/\text{NDF}: 887.6/17$

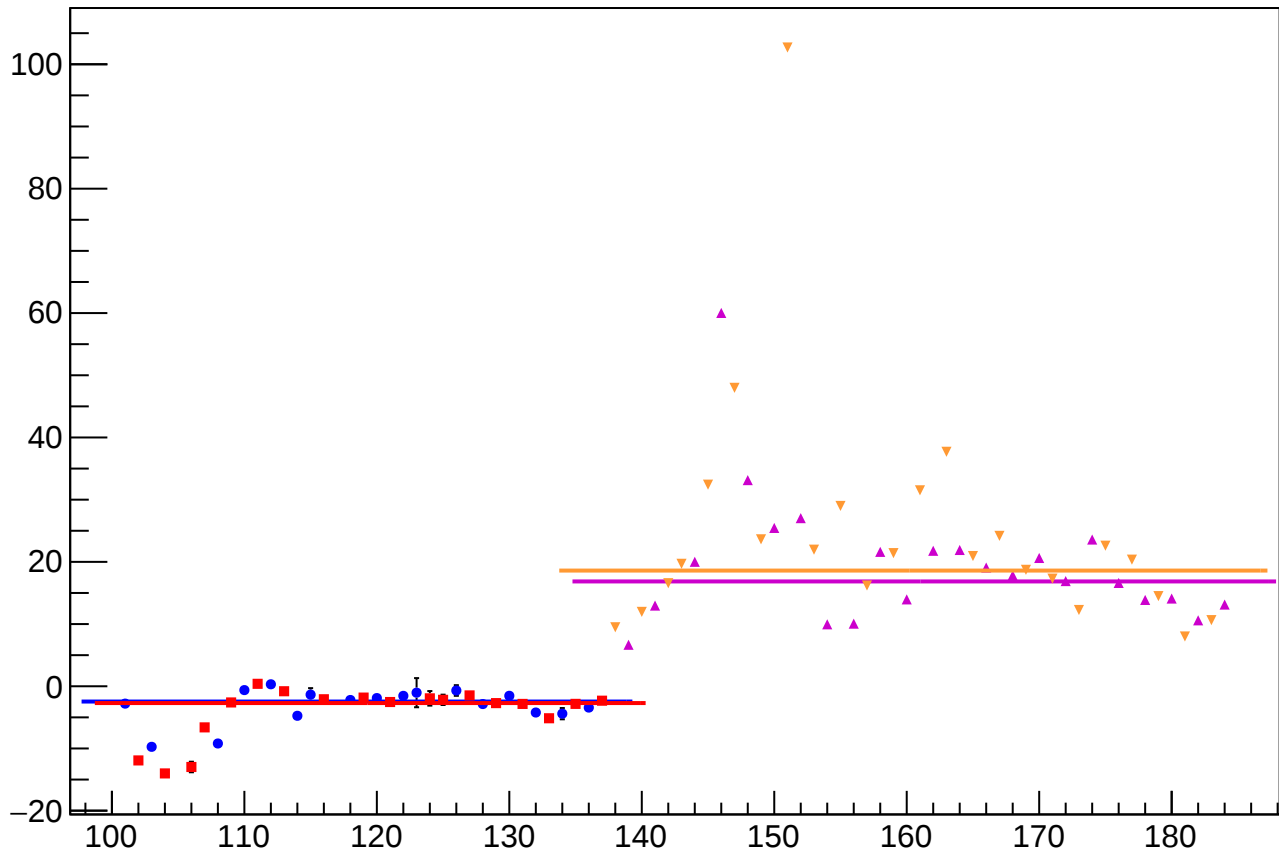
Left In:  $0.394 \pm 0.032$   $\chi^2/\text{NDF}: 6112.7/22$

+ sign  $0.760 \pm 0.030$   $\chi^2/\text{NDF}: 7519.2/40$

All:  $0.649 \pm 0.020$   $\chi^2/\text{NDF}: 14658.1/81$

- sign  $0.550 \pm 0.028$   $\chi^2/\text{NDF}: 7112.3/40$

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.456 \pm 0.115$   $\chi^2/\text{NDF}$ : 419.1/16

Left Out:  $18.601 \pm 0.041$   $\chi^2/\text{NDF}$ : 75998.1/23

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

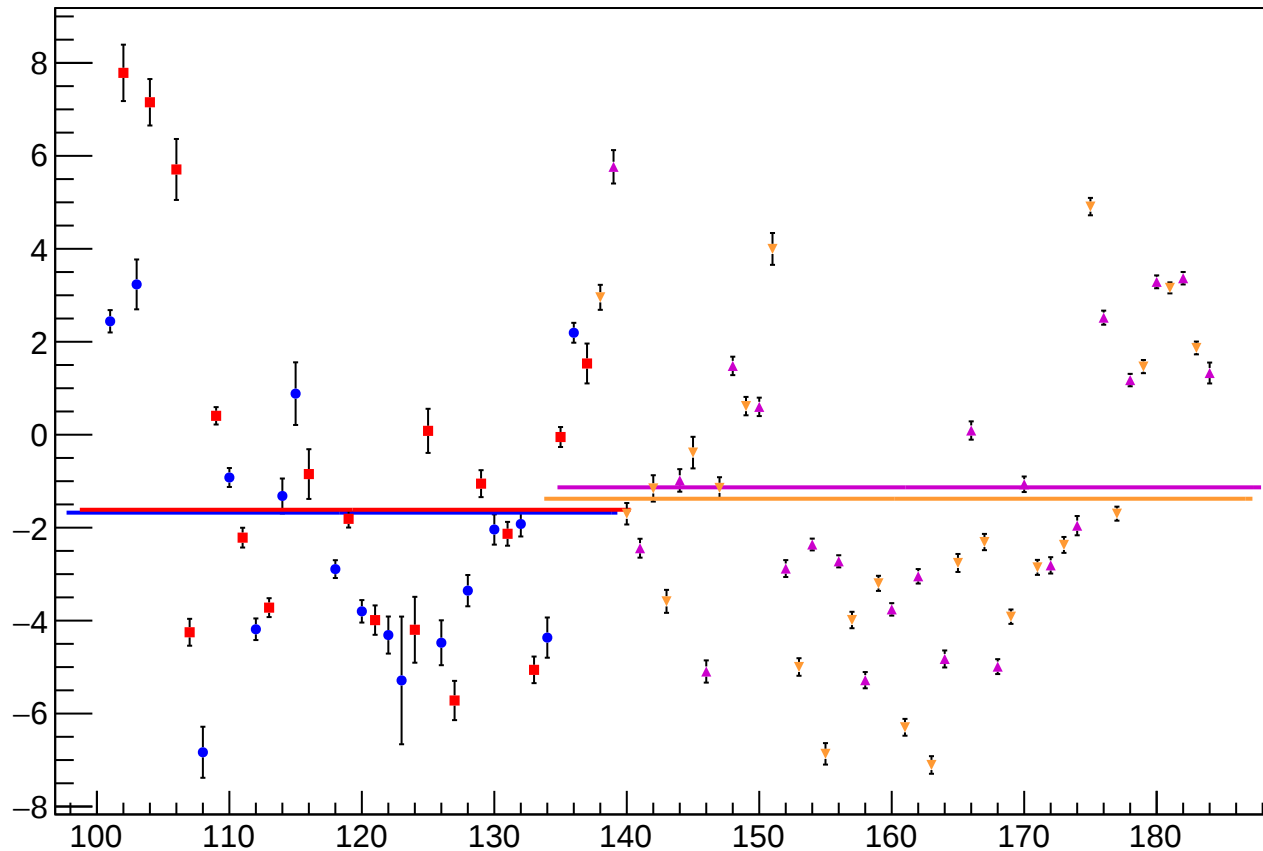
Left In:  $16.854 \pm 0.039$   $\chi^2/\text{NDF}$ : 40590.0/22

+ sign  $16.240 \pm 0.038$   $\chi^2/\text{NDF}$ : 106415.5/40

All:  $15.296 \pm 0.026$   $\chi^2/\text{NDF}$ : 180251.2/81

- sign  $14.451 \pm 0.036$   $\chi^2/\text{NDF}$ : 72687.6/40

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.677 \pm 0.072$   $\chi^2/\text{NDF}: 1204.7/16$

Left Out:  $-1.377 \pm 0.037$   $\chi^2/\text{NDF}: 7639.7/23$

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}: 1427.3/17$

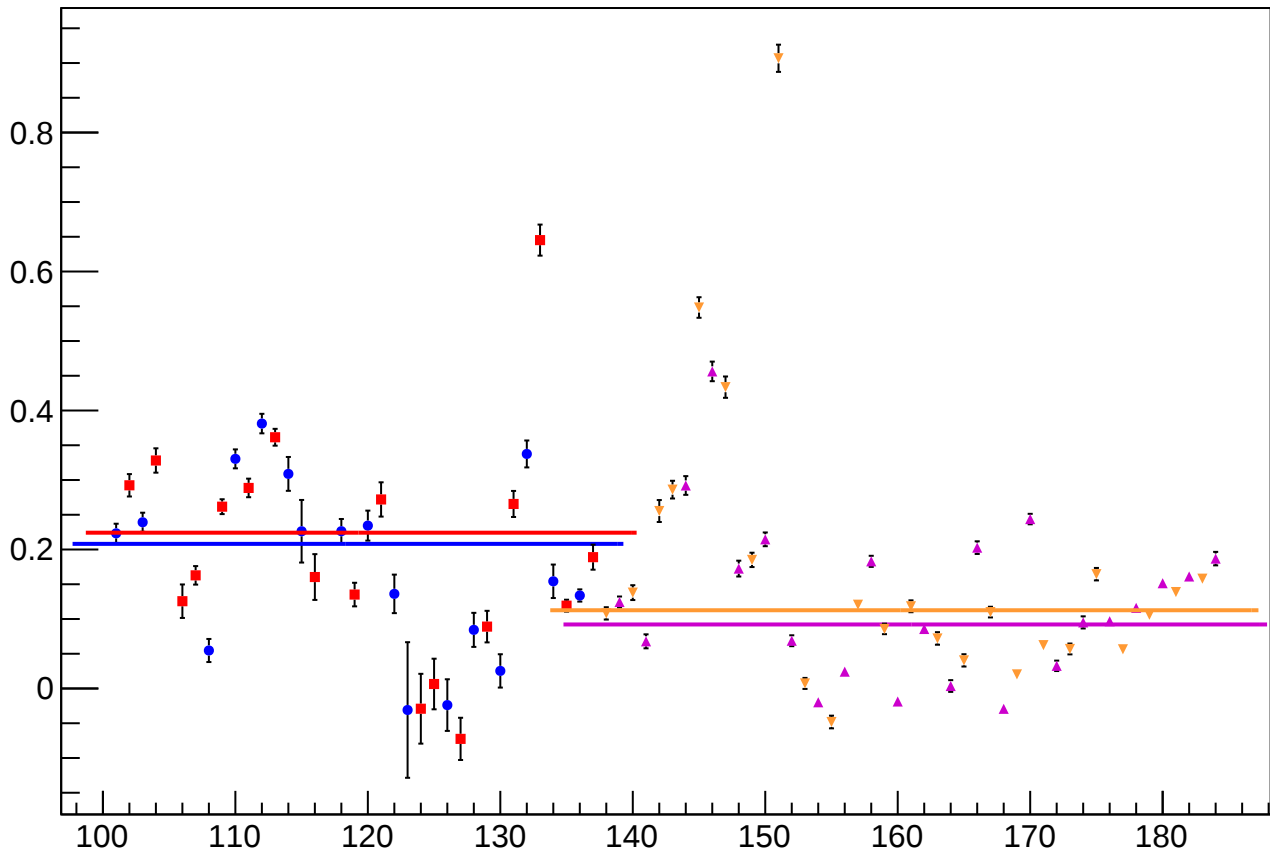
Left In:  $-1.132 \pm 0.035$   $\chi^2/\text{NDF}: 6638.3/22$

+ sign  $-1.440 \pm 0.033$   $\chi^2/\text{NDF}: 8858.0/40$

All:  $-1.331 \pm 0.023$   $\chi^2/\text{NDF}: 16983.9/81$

- sign  $-1.234 \pm 0.031$   $\chi^2/\text{NDF}: 8105.4/40$

# reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $0.208 \pm 0.004$   $\chi^2/\text{NDF}$ : 600.2/16

Left Out:  $0.113 \pm 0.002$   $\chi^2/\text{NDF}$ : 4328.2/23

Right Out:  $0.224 \pm 0.004$   $\chi^2/\text{NDF}$ : 995.8/17

Left In:  $0.092 \pm 0.002$   $\chi^2/\text{NDF}$ : 3632.6/22

+ sign  $0.125 \pm 0.002$   $\chi^2/\text{NDF}$ : 5363.3/40

All:  $0.117 \pm 0.001$   $\chi^2/\text{NDF}$ : 11053.6/81

- sign  $0.110 \pm 0.001$   $\chi^2/\text{NDF}$ : 5640.6/40