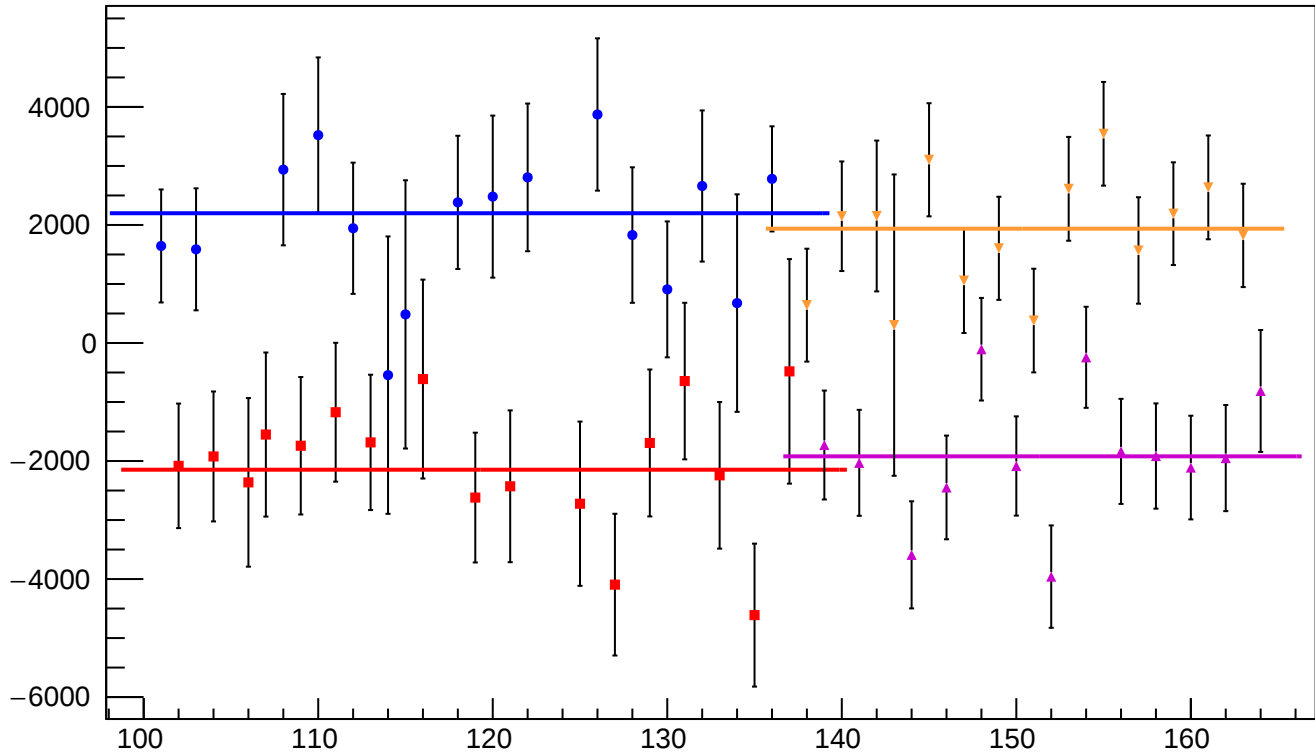


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2198.880+/-306.767

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

Left Out: 1936.988+/-252.229

$\chi^2/\text{NDF}$ : 12.9/13

Right Out: -2147.149+/-304.804

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

Left In: -1920.559+/-247.381

$\chi^2/\text{NDF}$ : 18.8/12

+ sign 2042.624+/-194.829

$\chi^2/\text{NDF}$ : 22.0/29

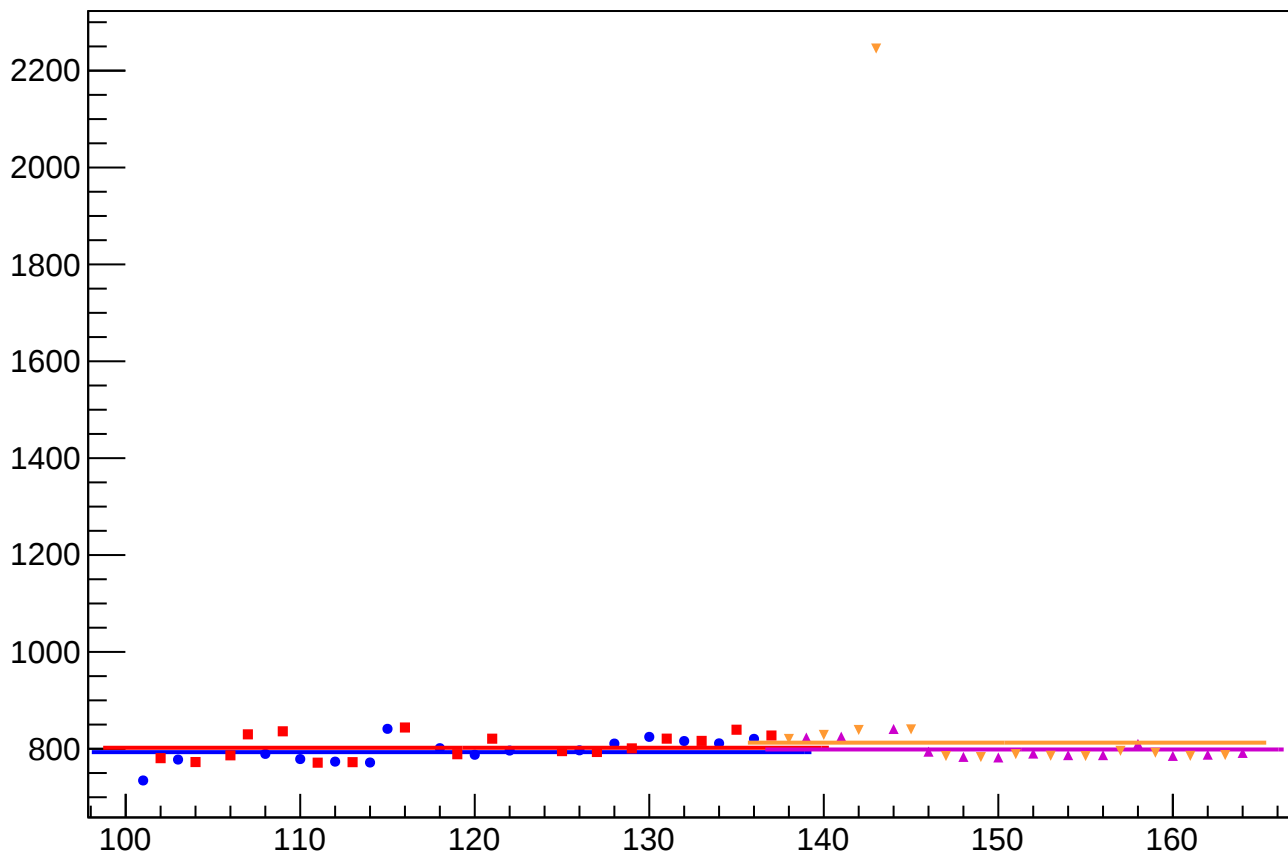
All: -12.756+/-136.782

$\chi^2/\text{NDF}$ : 271.9/59

- sign -2010.543+/-192.080

$\chi^2/\text{NDF}$ : 30.5/29

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



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

Left Out:  $812.664 \pm 0.178$   $\chi^2/\text{NDF}$ : 648336.1/13

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

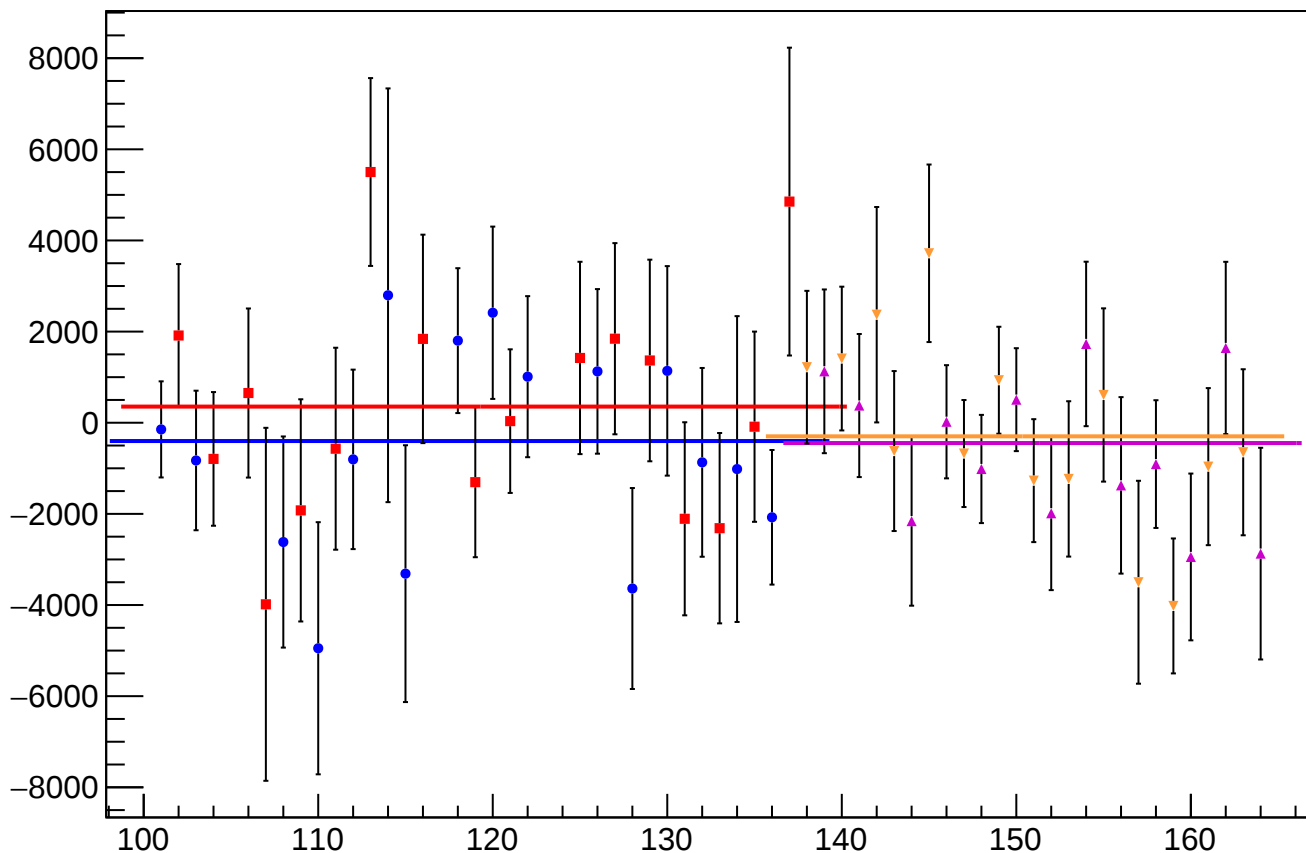
Left In:  $798.593 \pm 0.175$   $\chi^2/\text{NDF}$ : 11017.6/12

+ sign  $804.769 \pm 0.138$   $\chi^2/\text{NDF}$ : 667897.2/29

All:  $802.353 \pm 0.097$   $\chi^2/\text{NDF}$ : 692408.9/59

- sign  $800.005 \pm 0.136$   $\chi^2/\text{NDF}$ : 23905.1/29

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



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

Left Out:  $-298.231 \pm 428.602$   $\chi^2/\text{NDF}$ : 18.4/13

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

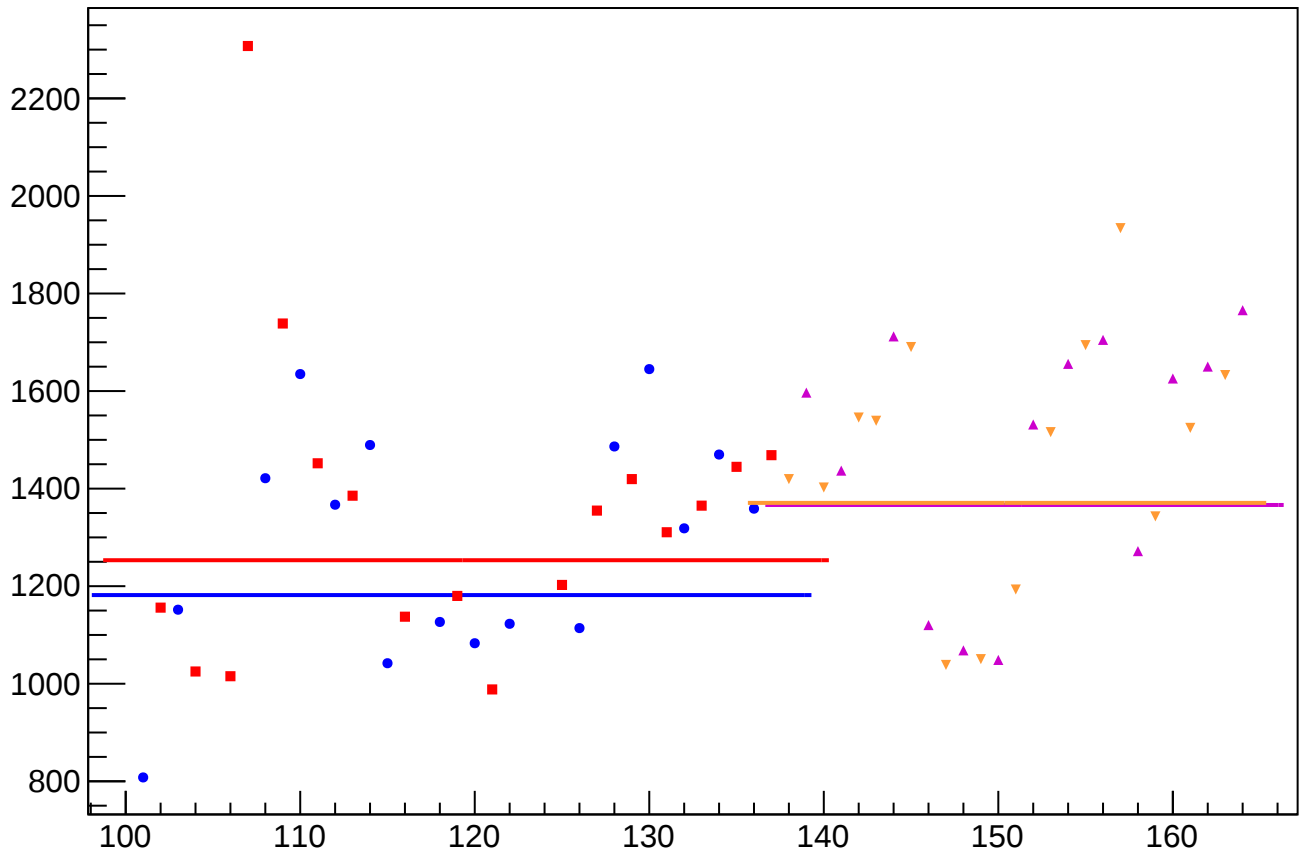
Left In:  $-445.572 \pm 432.484$   $\chi^2/\text{NDF}$ : 9.8/12

+ sign  $-345.247 \pm 316.285$   $\chi^2/\text{NDF}$ : 33.2/29

All:  $-221.590 \pm 226.065$   $\chi^2/\text{NDF}$ : 62.2/59

- sign  $-92.438 \pm 323.237$   $\chi^2/\text{NDF}$ : 28.7/29

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



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

Left Out: 1370.775 $\pm$ 0.303  $\chi^2$ /NDF: 687913.0/13

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

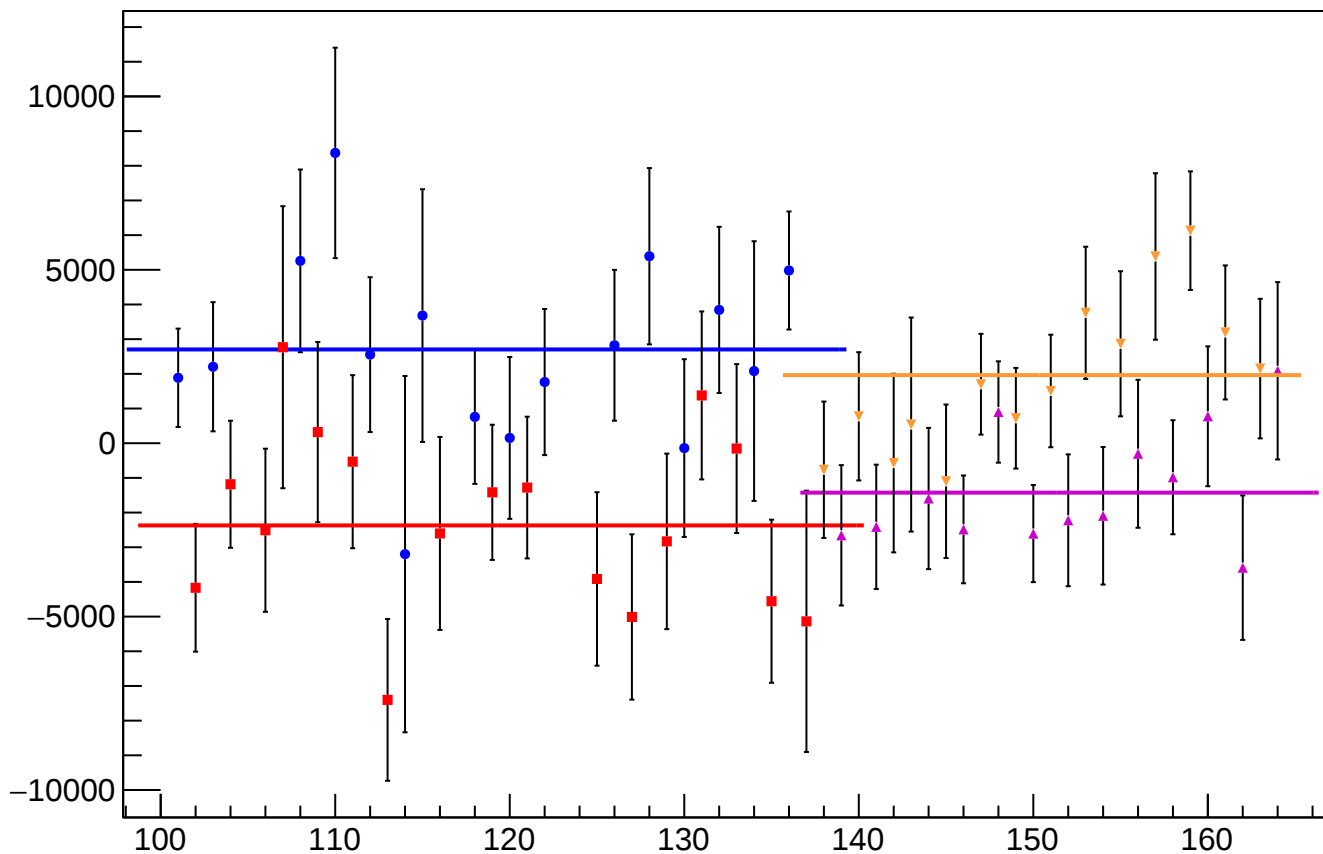
Left In: 1366.470 $\pm$ 0.306  $\chi^2$ /NDF: 754310.8/12

+ sign 1284.694 $\pm$ 0.224  $\chi^2$ /NDF: 1408543.8/29

All: 1300.243 $\pm$ 0.160  $\chi^2$ /NDF: 2688909.2/59

- sign 1316.482 $\pm$ 0.229  $\chi^2$ /NDF: 1270484.0/29

# asym\_us\_avg\_mean vs Slug



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

Left Out: 1963.134 $\pm$ 508.140  $\chi^2$ /NDF: 15.7/13

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

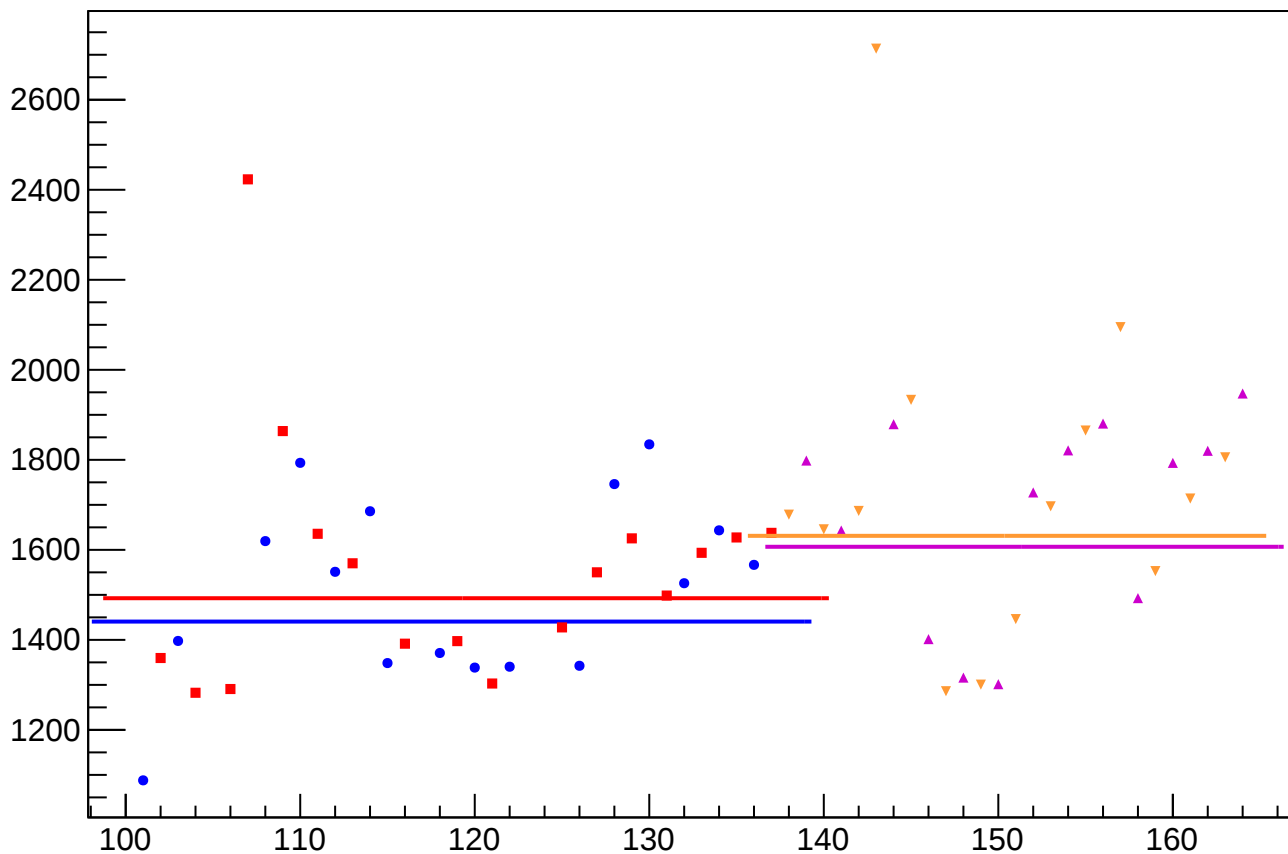
Left In: -1425.443 $\pm$ 503.917  $\chi^2$ /NDF: 9.2/12

+ sign 2294.604 $\pm$ 377.669  $\chi^2$ /NDF: 29.7/29

All: 233.439 $\pm$ 267.360  $\chi^2$ /NDF: 116.2/59

- sign -1837.257 $\pm$ 378.541  $\chi^2$ /NDF: 26.8/29

# asym\_us\_avg\_rms vs Slug



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

Left Out: 1631.144+/-0.359  $\chi^2/\text{NDF}$ : 653033.2/13

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

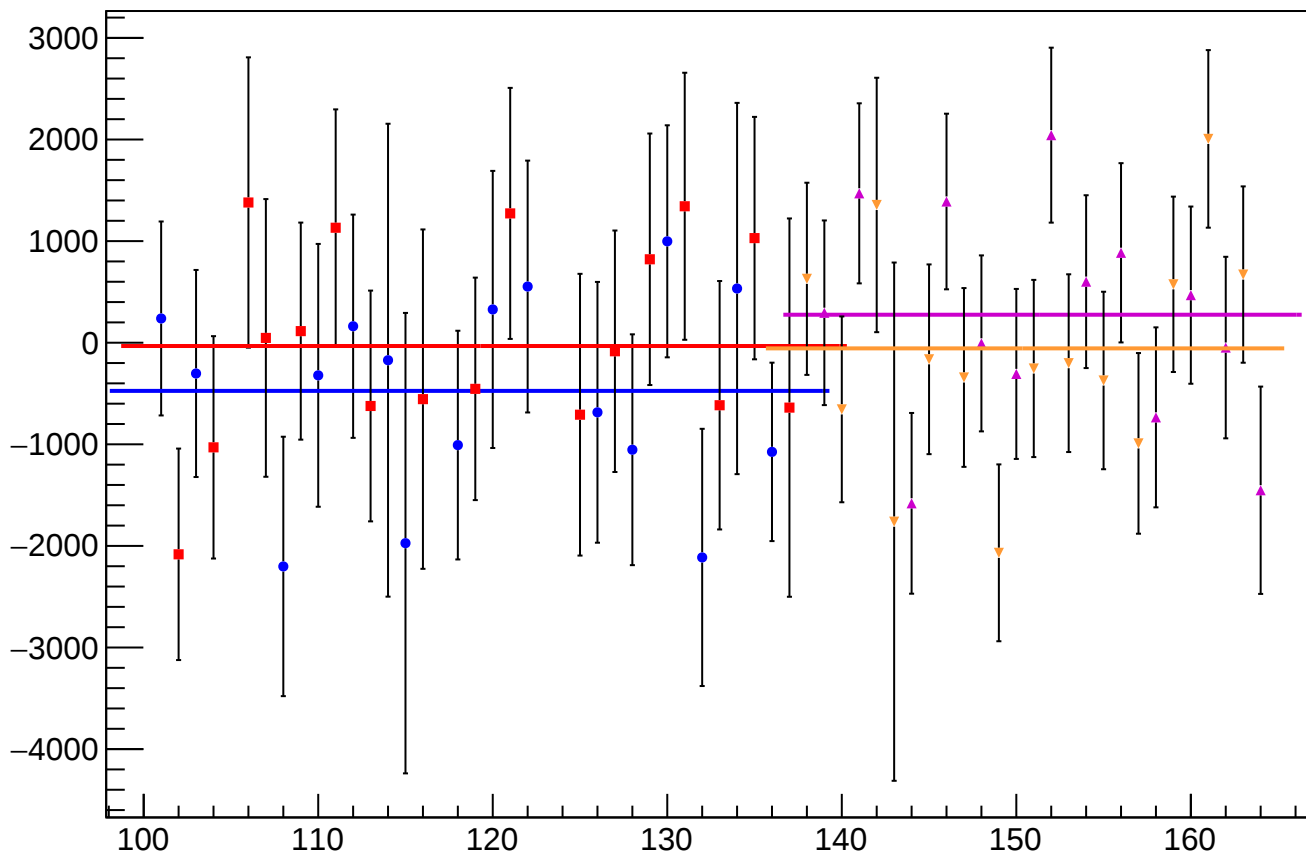
Left In: 1606.831+/-0.356  $\chi^2/\text{NDF}$ : 410935.1/12

+ sign 1545.881+/-0.267  $\chi^2/\text{NDF}$ : 1061102.1/29

All: 1551.442+/-0.189  $\chi^2/\text{NDF}$ : 1769246.2/59

- sign 1557.029+/-0.268  $\chi^2/\text{NDF}$ : 707274.7/29

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



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

Left Out:  $-55.761 \pm 249.676$   $\chi^2/\text{NDF}$ : 16.3/13

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

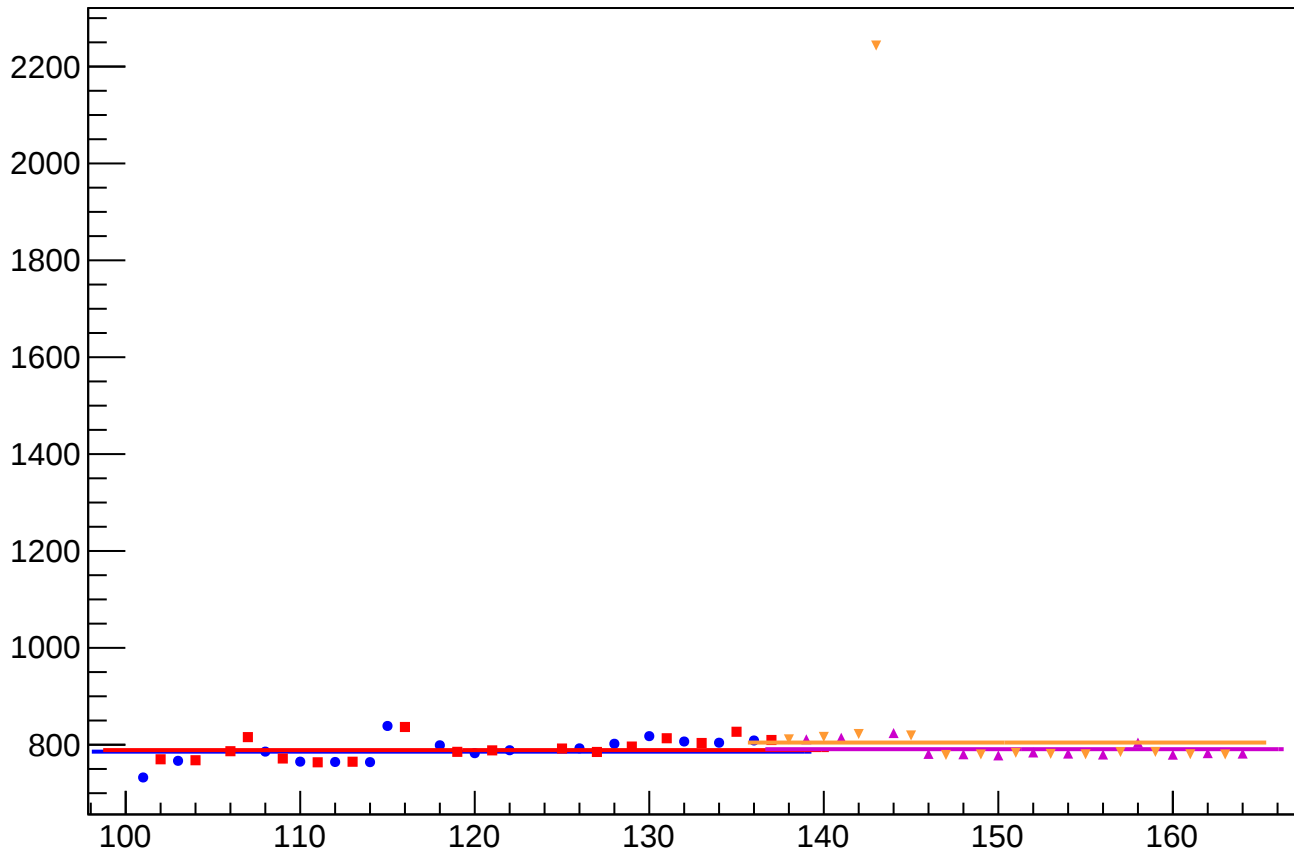
Left In:  $275.479 \pm 244.941$   $\chi^2/\text{NDF}$ : 17.6/12

+ sign  $-224.348 \pm 192.921$   $\chi^2/\text{NDF}$ : 26.3/29

All:  $-32.880 \pm 135.239$   $\chi^2/\text{NDF}$ : 57.7/59

- sign  $152.119 \pm 189.635$   $\chi^2/\text{NDF}$ : 29.5/29

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



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

Left Out: 804.510 $\pm$ 0.177  $\chi^2$ /NDF: 650377.2/13

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

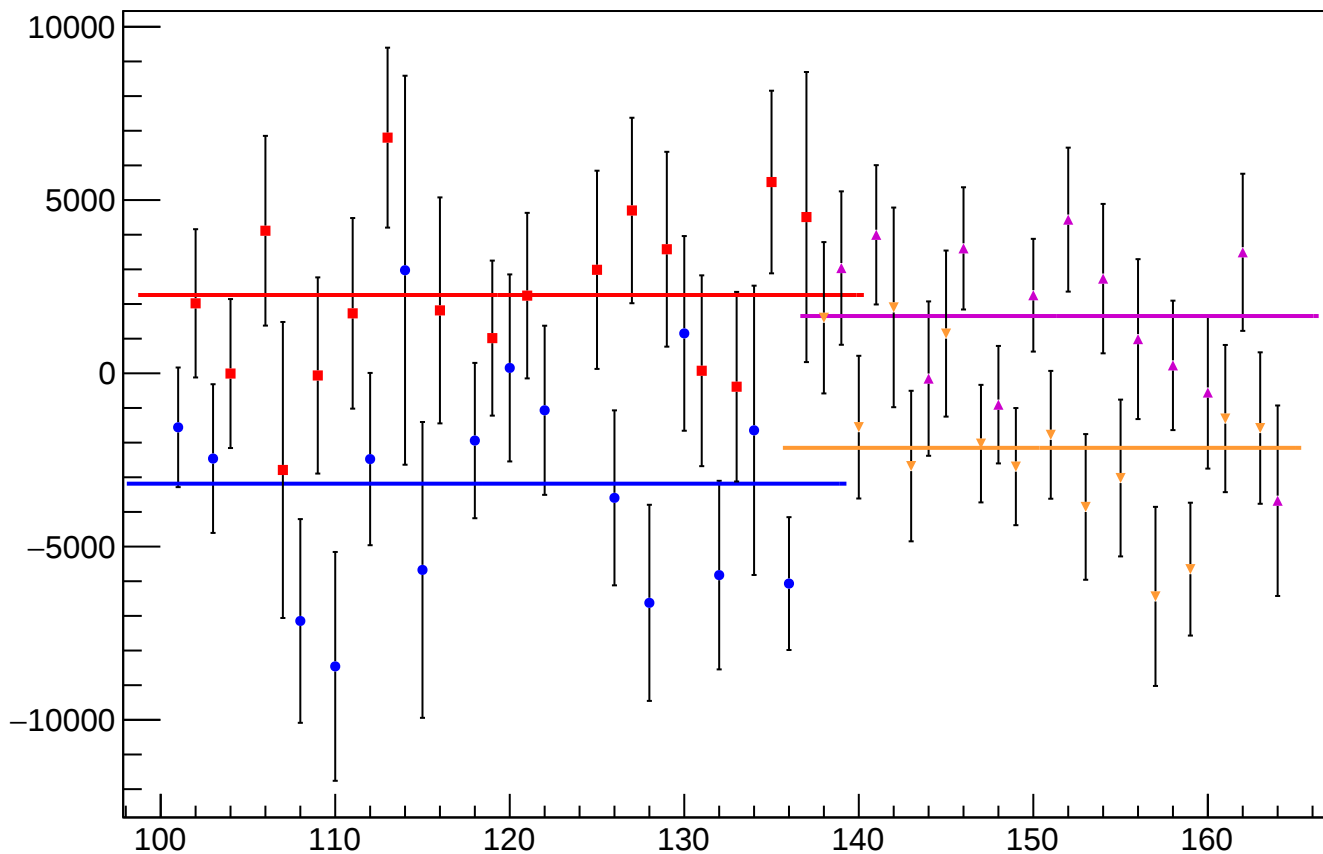
Left In: 790.829 $\pm$ 0.173  $\chi^2$ /NDF: 8032.9/12

+ sign 796.949 $\pm$ 0.136  $\chi^2$ /NDF: 668850.6/29

All: 793.452 $\pm$ 0.096  $\chi^2$ /NDF: 687748.4/59

- sign 790.073 $\pm$ 0.134  $\chi^2$ /NDF: 17605.6/29

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



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

Left Out:  $-2150.841 \pm 557.426$   $\chi^2/\text{NDF}$ : 14.2/13

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

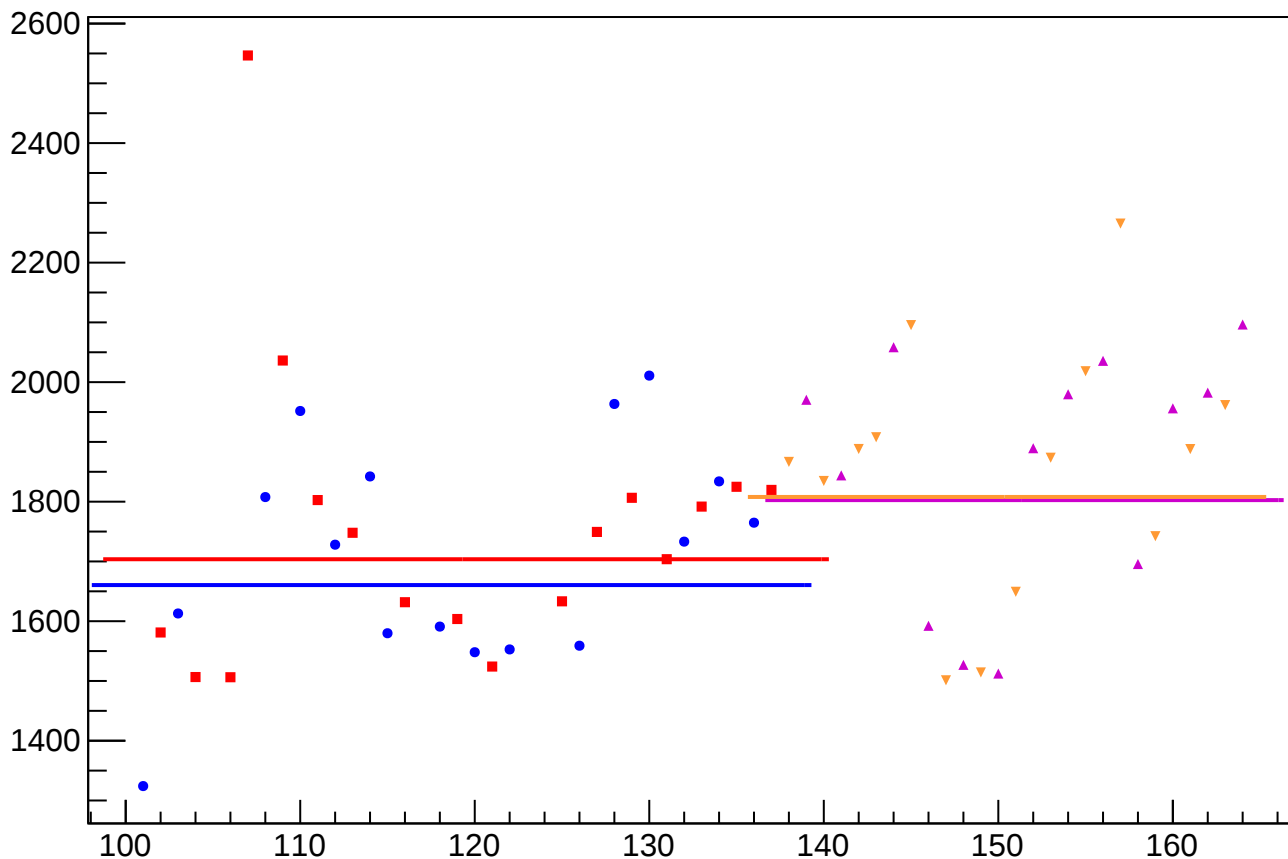
Left In:  $1653.559 \pm 562.885$   $\chi^2/\text{NDF}$ : 14.2/12

+ sign  $-2590.947 \pm 422.408$   $\chi^2/\text{NDF}$ : 32.5/29

All:  $-358.526 \pm 299.970$   $\chi^2/\text{NDF}$ : 115.1/59

- sign  $1912.656 \pm 426.059$   $\chi^2/\text{NDF}$ : 26.3/29

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



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

Left Out: 1807.893+/-0.394  $\chi^2/\text{NDF}$ : 273963.6/13

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

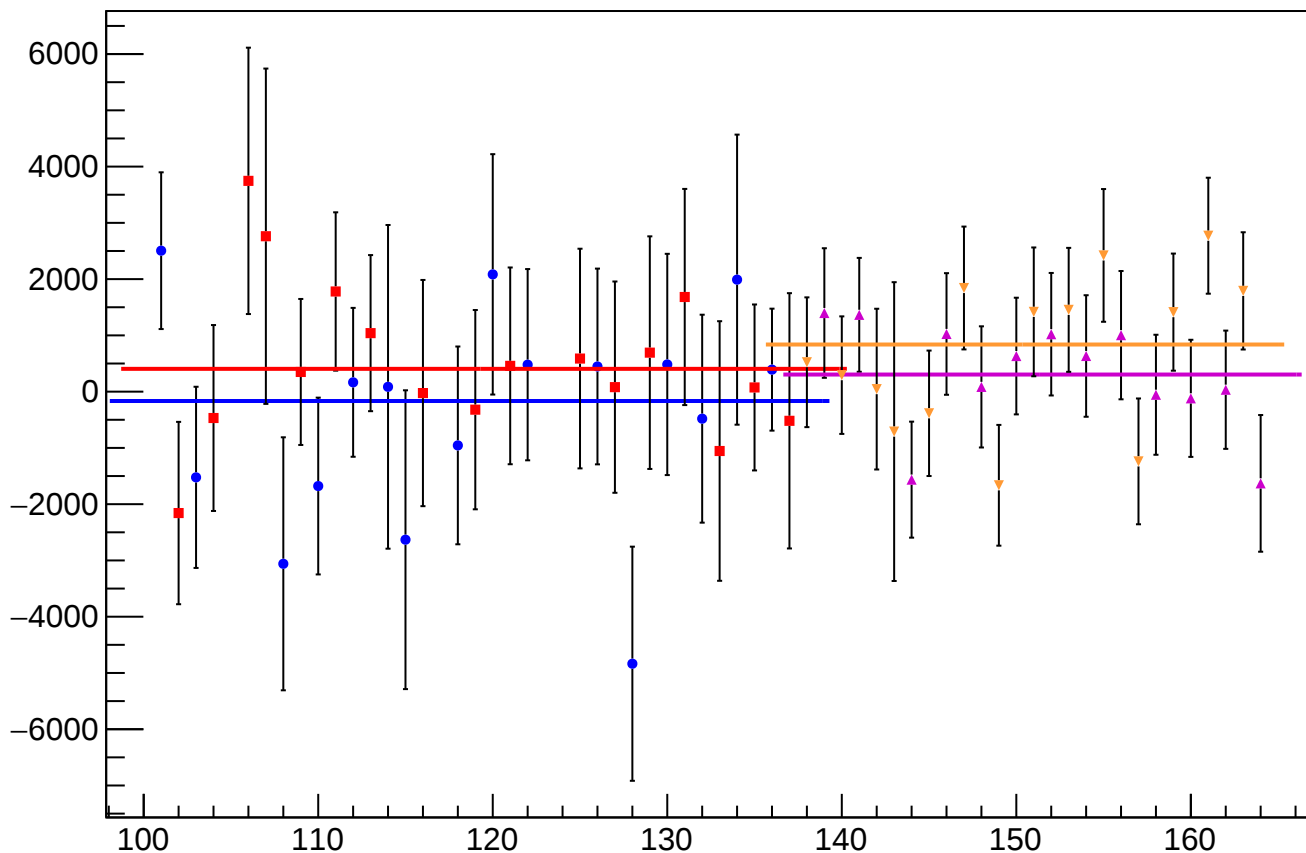
Left In: 1802.616+/-0.398  $\chi^2/\text{NDF}$ : 272853.5/12

+ sign 1745.122+/-0.299  $\chi^2/\text{NDF}$ : 512737.0/29

All: 1752.677+/-0.212  $\chi^2/\text{NDF}$ : 984294.4/59

- sign 1760.363+/-0.301  $\chi^2/\text{NDF}$ : 470266.8/29

# asym\_us\_dd\_mean vs Slug



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

Left Out:  $837.743 \pm 305.653$   $\chi^2/\text{NDF}$ : 19.0/13

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

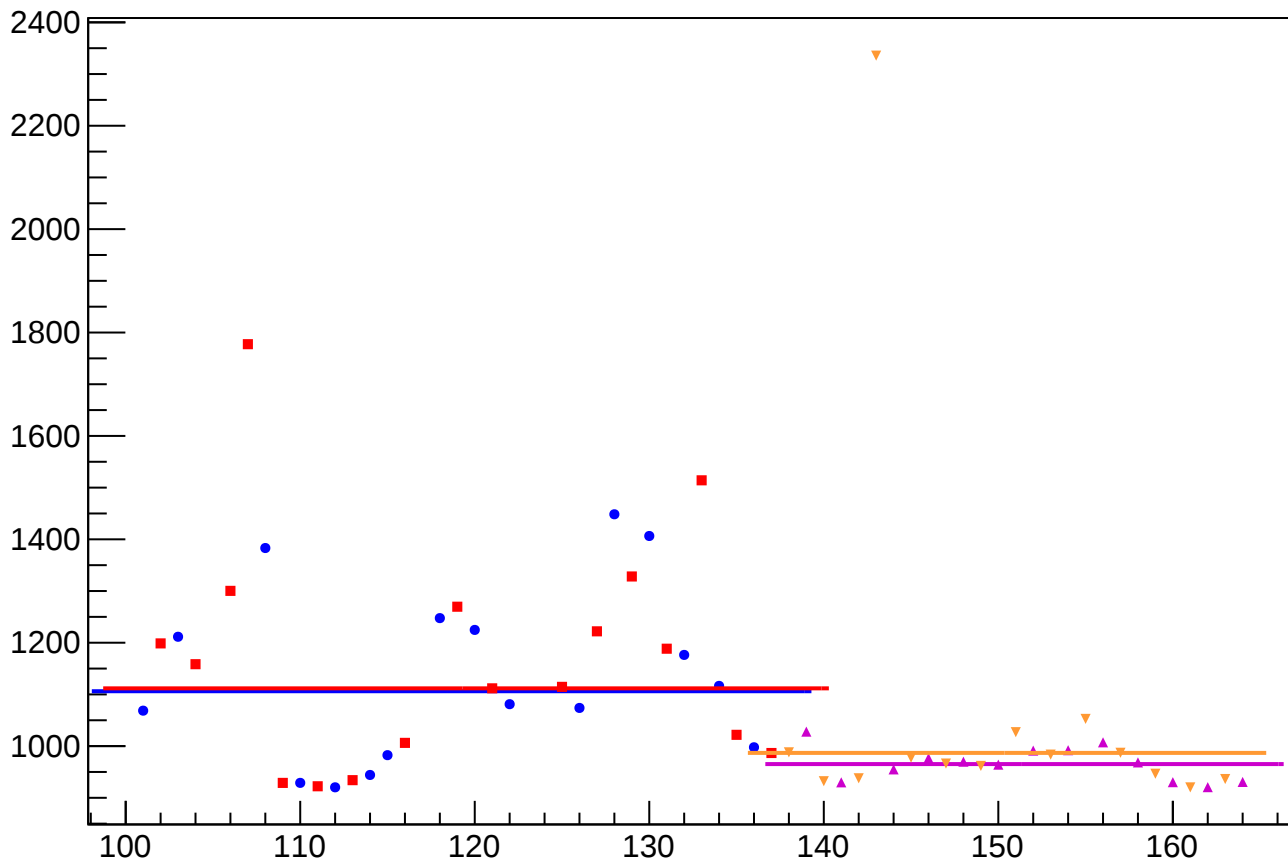
Left In:  $304.078 \pm 299.131$   $\chi^2/\text{NDF}$ : 9.7/12

+ sign  $503.476 \pm 249.646$   $\chi^2/\text{NDF}$ : 38.2/29

All:  $418.892 \pm 174.969$   $\chi^2/\text{NDF}$ : 56.0/59

- sign  $337.227 \pm 245.300$   $\chi^2/\text{NDF}$ : 17.6/29

# asym\_us\_dd\_rms vs Slug



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

Left Out: 986.883+/-0.216  $\chi^2/\text{NDF}$ : 550550.7/13

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

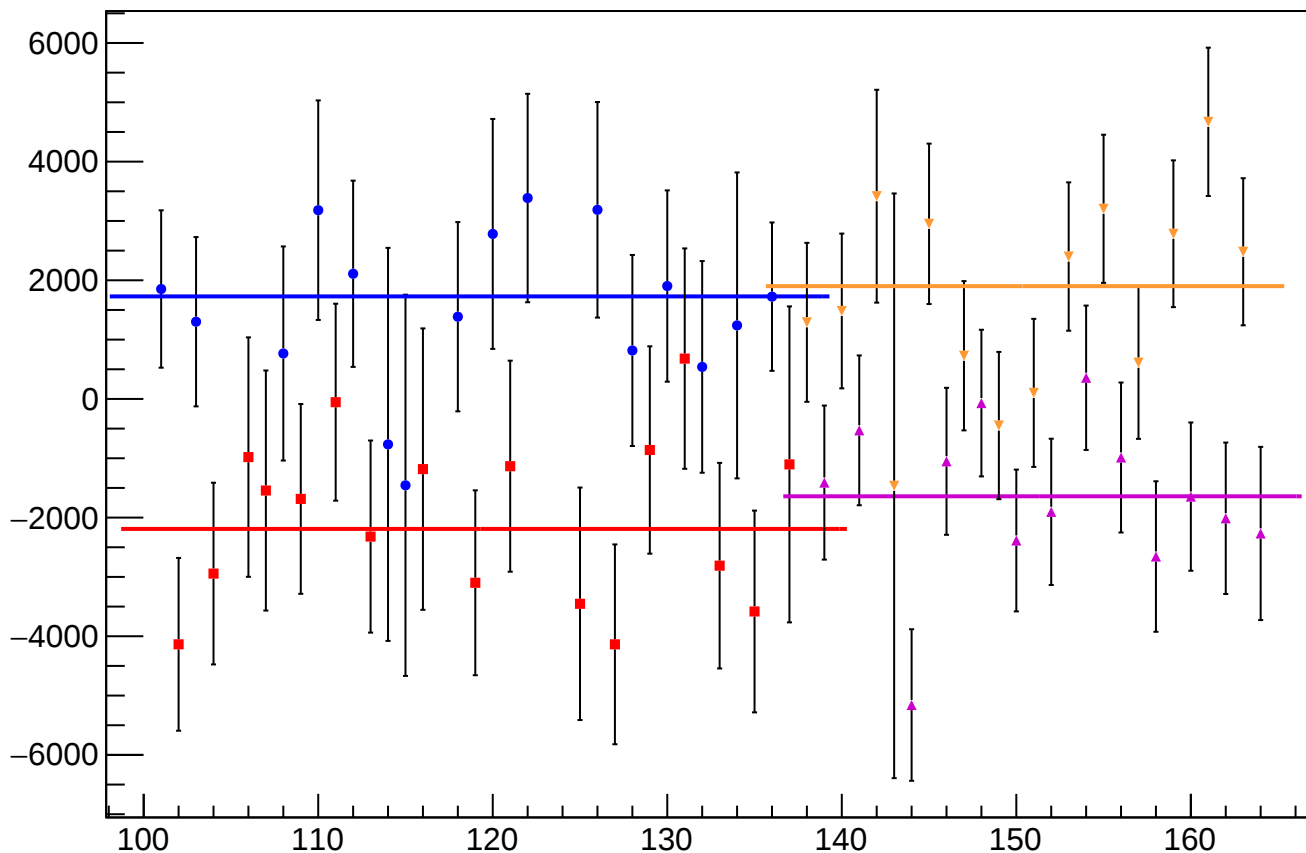
Left In: 965.251+/-0.212  $\chi^2/\text{NDF}$ : 21443.9/12

+ sign 1026.590+/-0.177  $\chi^2/\text{NDF}$ : 911858.2/29

All: 1019.791+/-0.124  $\chi^2/\text{NDF}$ : 1449674.4/59

- sign 1013.226+/-0.173  $\chi^2/\text{NDF}$ : 534900.2/29

# dit\_asym\_usl\_mean vs Slug



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

Left Out:  $1901.193 \pm 358.098$   $\chi^2/\text{NDF}$ : 16.5/13

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

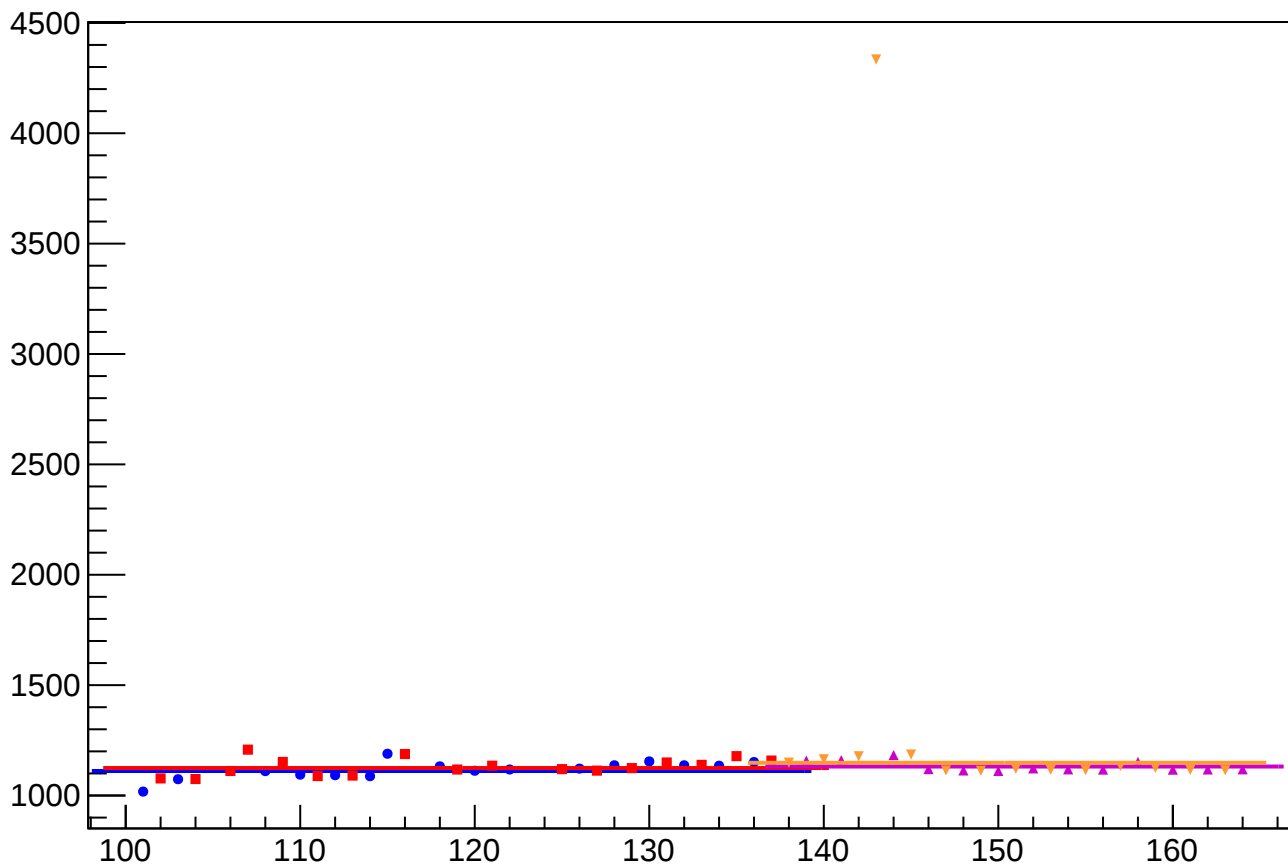
Left In:  $-1640.996 \pm 350.423$   $\chi^2/\text{NDF}$ : 14.5/12

+ sign  $1830.419 \pm 275.121$   $\chi^2/\text{NDF}$ : 21.9/29

All:  $-44.164 \pm 193.044$   $\chi^2/\text{NDF}$ : 139.7/59

- sign  $-1862.194 \pm 270.939$   $\chi^2/\text{NDF}$ : 26.3/29

# dit\_asym\_usl\_rms vs Slug



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

Left Out: 1148.259 $\pm$ 0.253  $\chi^2$ /NDF: 849063.8/13

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

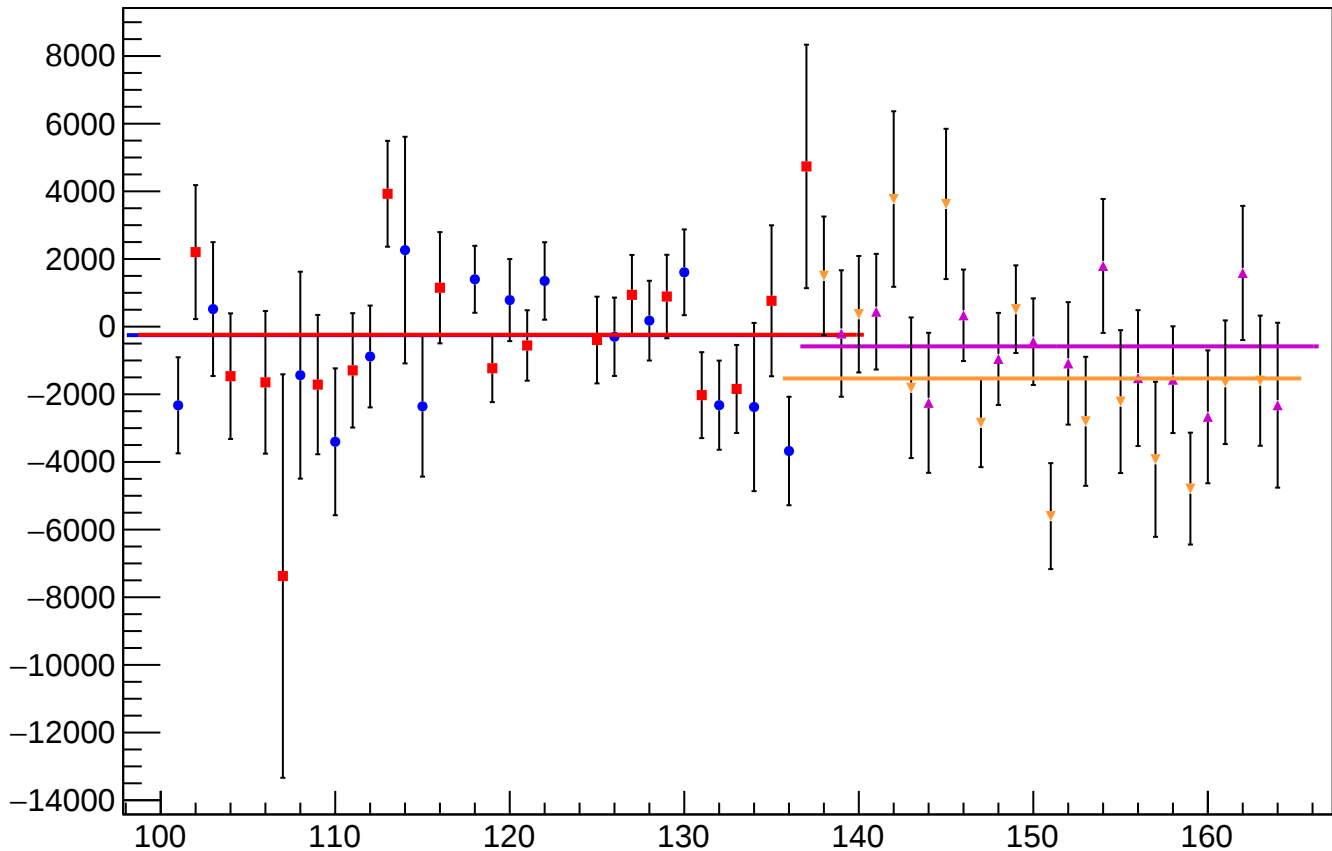
Left In: 1131.324 $\pm$ 0.248  $\chi^2$ /NDF: 8163.1/12

+ sign 1133.010 $\pm$ 0.195  $\chi^2$ /NDF: 876006.4/29

All: 1130.764 $\pm$ 0.137  $\chi^2$ /NDF: 899336.6/59

- sign 1128.585 $\pm$ 0.192  $\chi^2$ /NDF: 23067.5/29

# asym\_usl\_correction\_mean vs Slug



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

Left Out: -1531.936+/-473.758  $\chi^2/\text{NDF}$ : 29.6/13

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

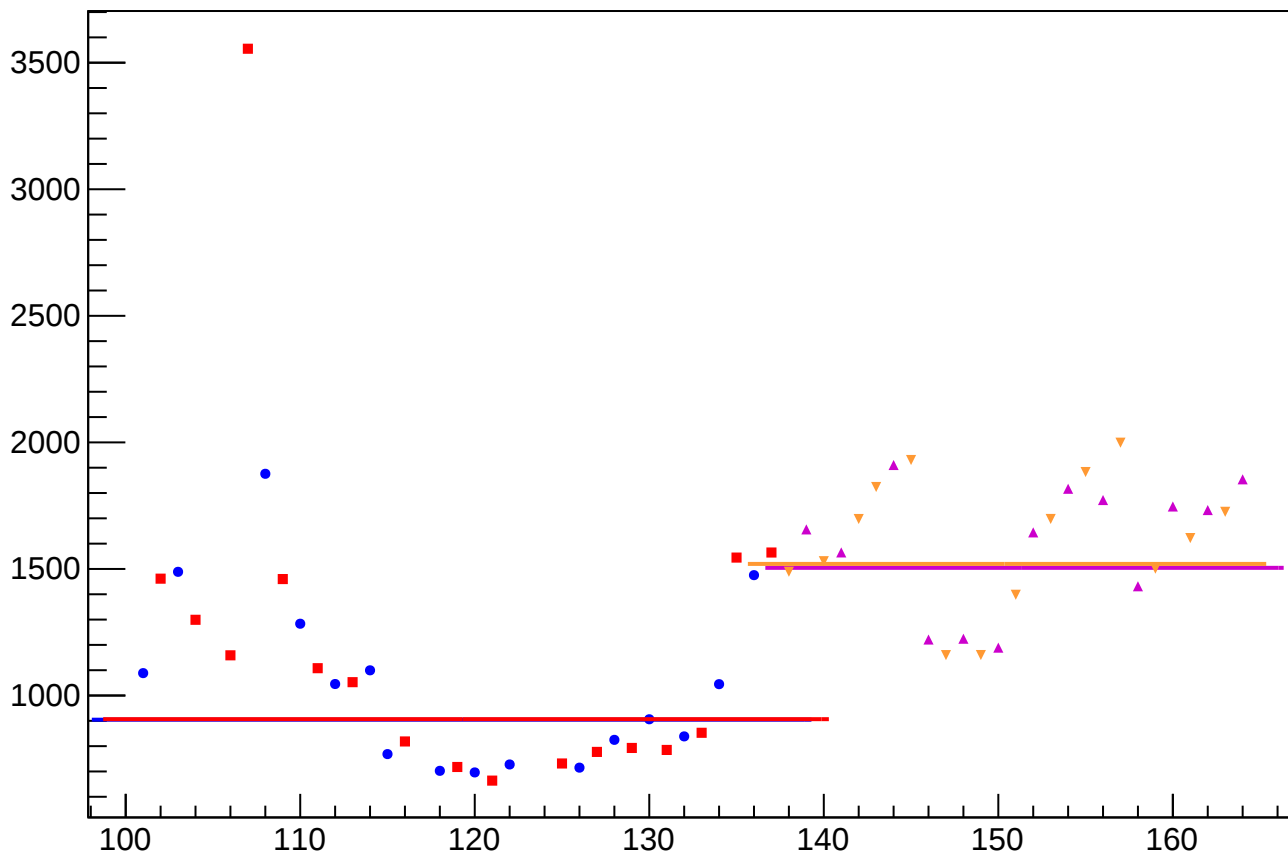
Left In: -582.978+/-474.028  $\chi^2/\text{NDF}$ : 6.6/12

+ sign -728.246+/-289.115  $\chi^2/\text{NDF}$ : 56.0/29

All: -547.348+/-204.261  $\chi^2/\text{NDF}$ : 84.7/59

- sign -367.065+/-288.623  $\chi^2/\text{NDF}$ : 28.0/29

# asym\_usl\_correction\_rms vs Slug



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

Left Out: 1519.915+/-0.335  $\chi^2/\text{NDF}$ : 631800.9/13

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

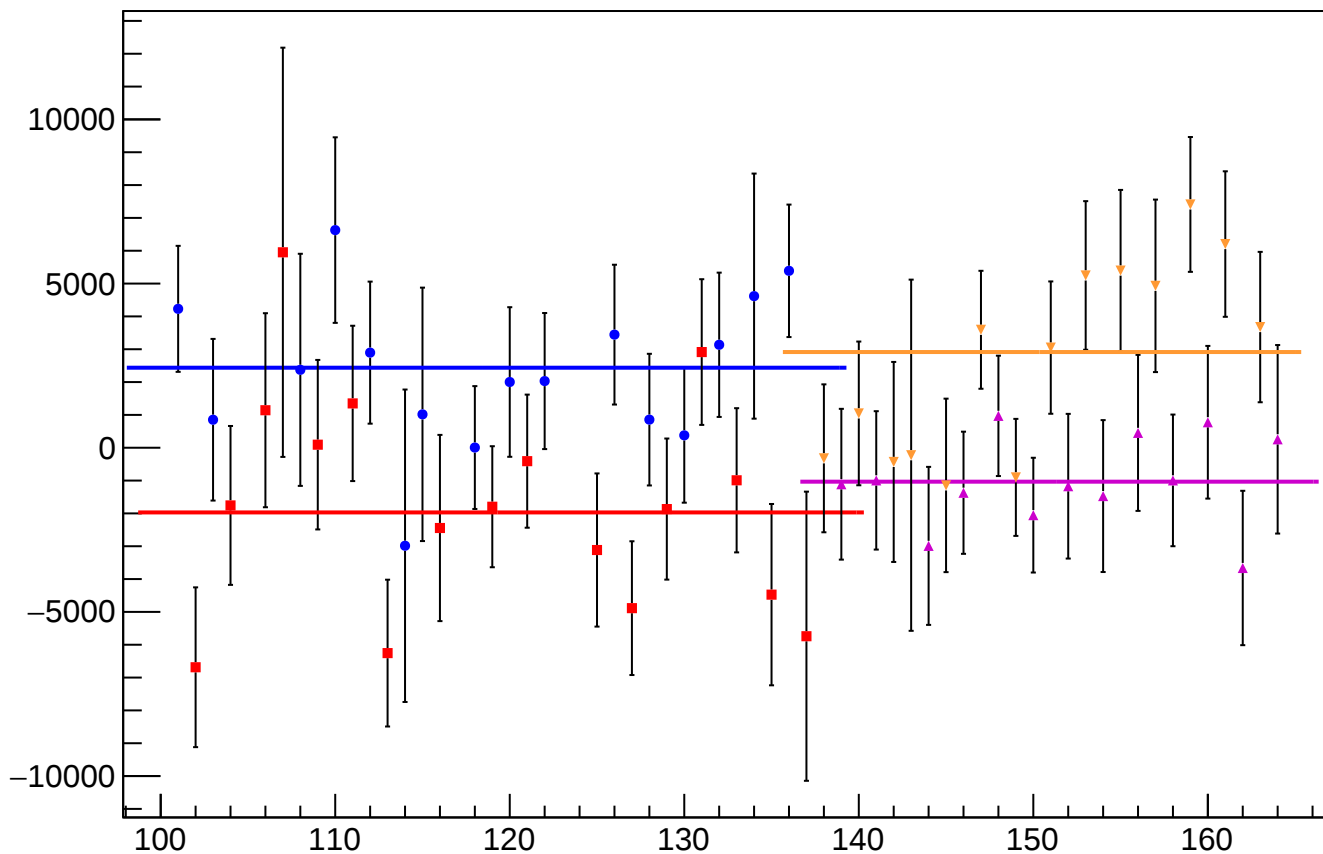
Left In: 1504.434+/-0.335  $\chi^2/\text{NDF}$ : 586131.9/12

+ sign 1133.683+/-0.204  $\chi^2/\text{NDF}$ : 3770970.9/29

All: 1130.952+/-0.144  $\chi^2/\text{NDF}$ : 7735380.0/59

- sign 1128.230+/-0.204  $\chi^2/\text{NDF}$ : 3964052.8/29

# asym\_usl\_mean vs Slug



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

Left Out: 2914.799 $\pm$ 608.550  $\chi^2$ /NDF:21.2/13

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

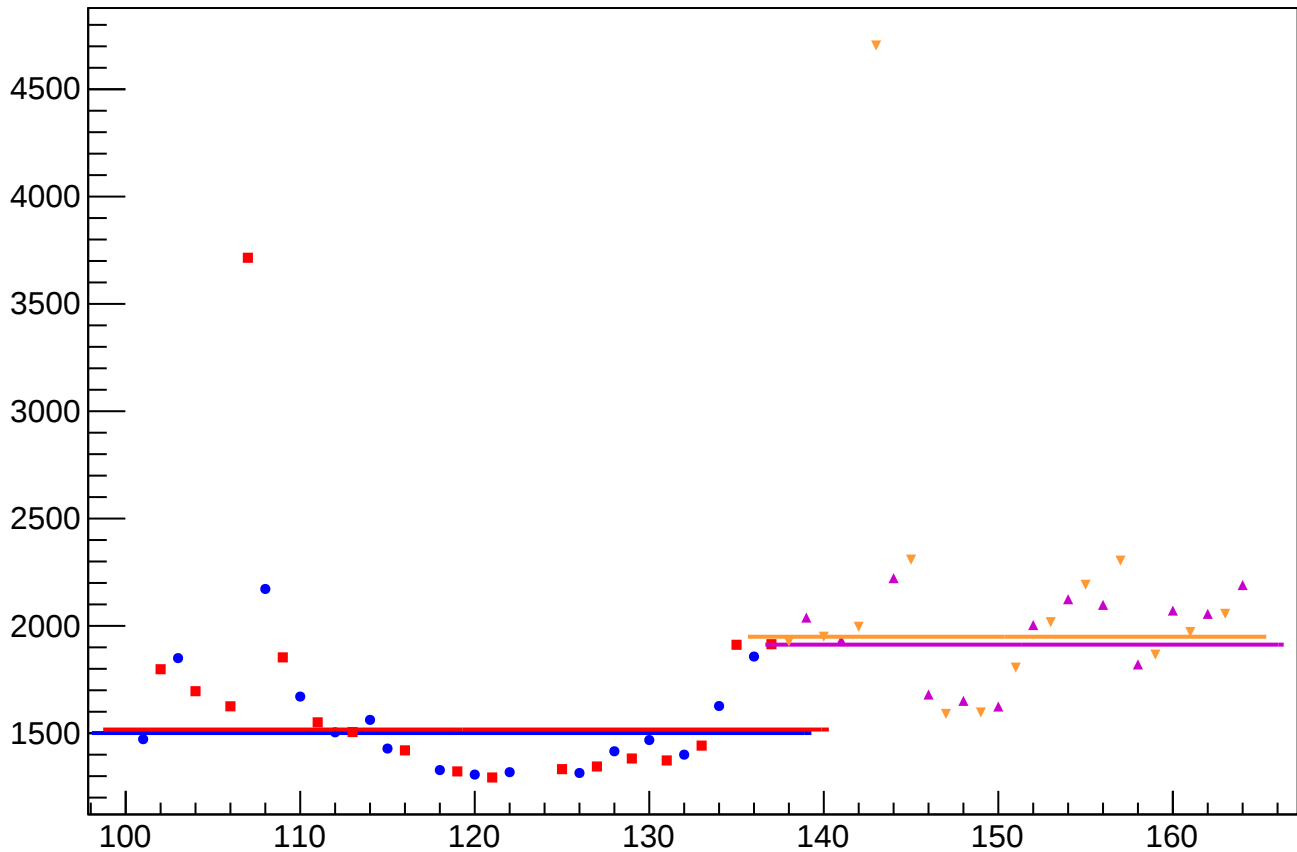
Left In: -1033.766 $\pm$ 596.830  $\chi^2$ /NDF:4.7/12

+ sign 2667.241 $\pm$ 422.198  $\chi^2$ /NDF: 32.7/29

All: 559.581 $\pm$ 297.181  $\chi^2$ /NDF: 110.4/59

- sign -1510.151 $\pm$ 418.382  $\chi^2$ /NDF: 28.3/29

# asym\_usl\_rms vs Slug



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

Left Out: 1949.423+/-0.430  $\chi^2/\text{NDF}$ : 802364.0/13

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

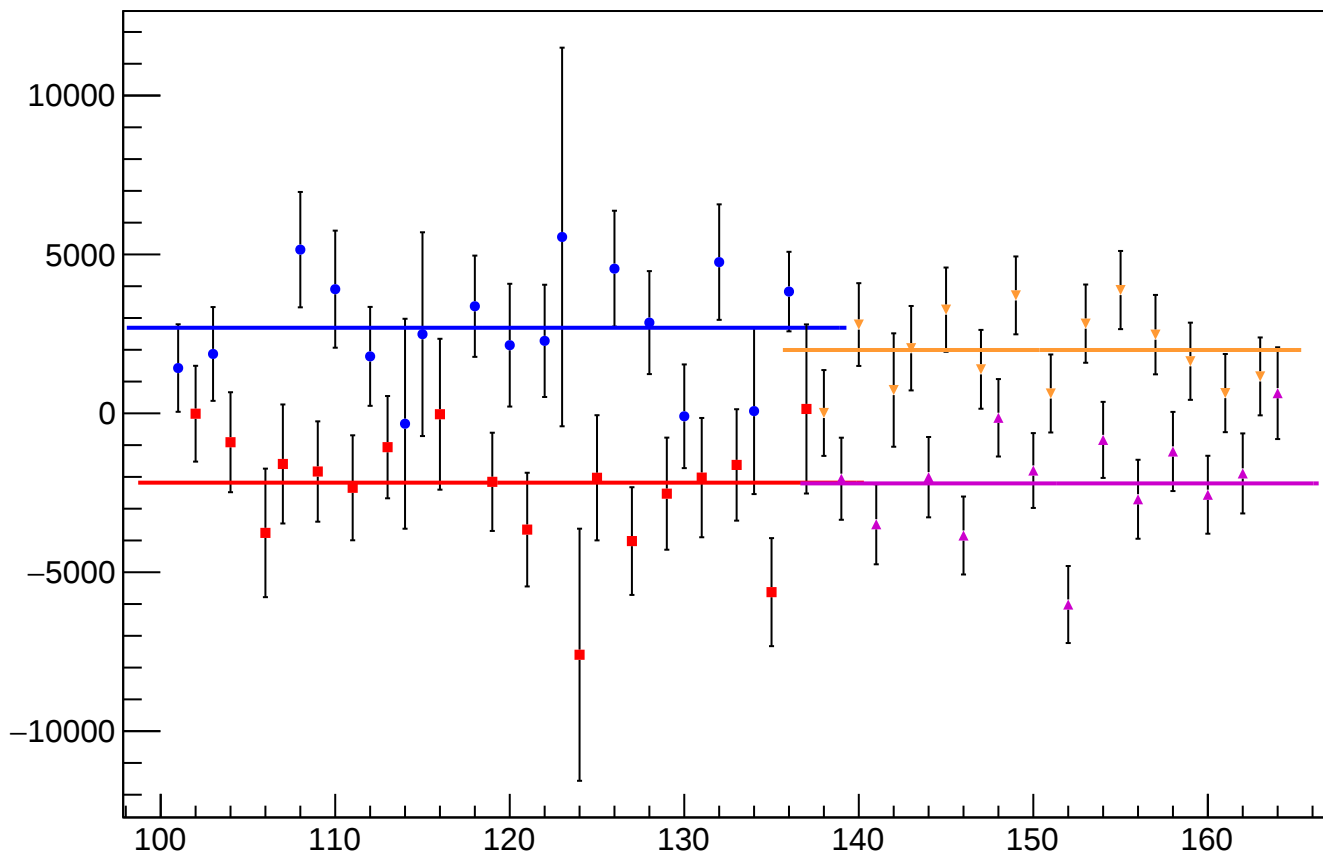
Left In: 1912.570+/-0.422  $\chi^2/\text{NDF}$ : 237873.6/12

+ sign 1716.749+/-0.299  $\chi^2/\text{NDF}$ : 1622277.9/29

All: 1714.075+/-0.210  $\chi^2/\text{NDF}$ : 2781916.6/59

- sign 1711.448+/-0.296  $\chi^2/\text{NDF}$ : 1159479.6/29

# dit\_asym\_usr\_mean vs Slug



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

Left Out: 1993.323 $\pm$ 342.293  $\chi^2$ /NDF:12.1/13

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

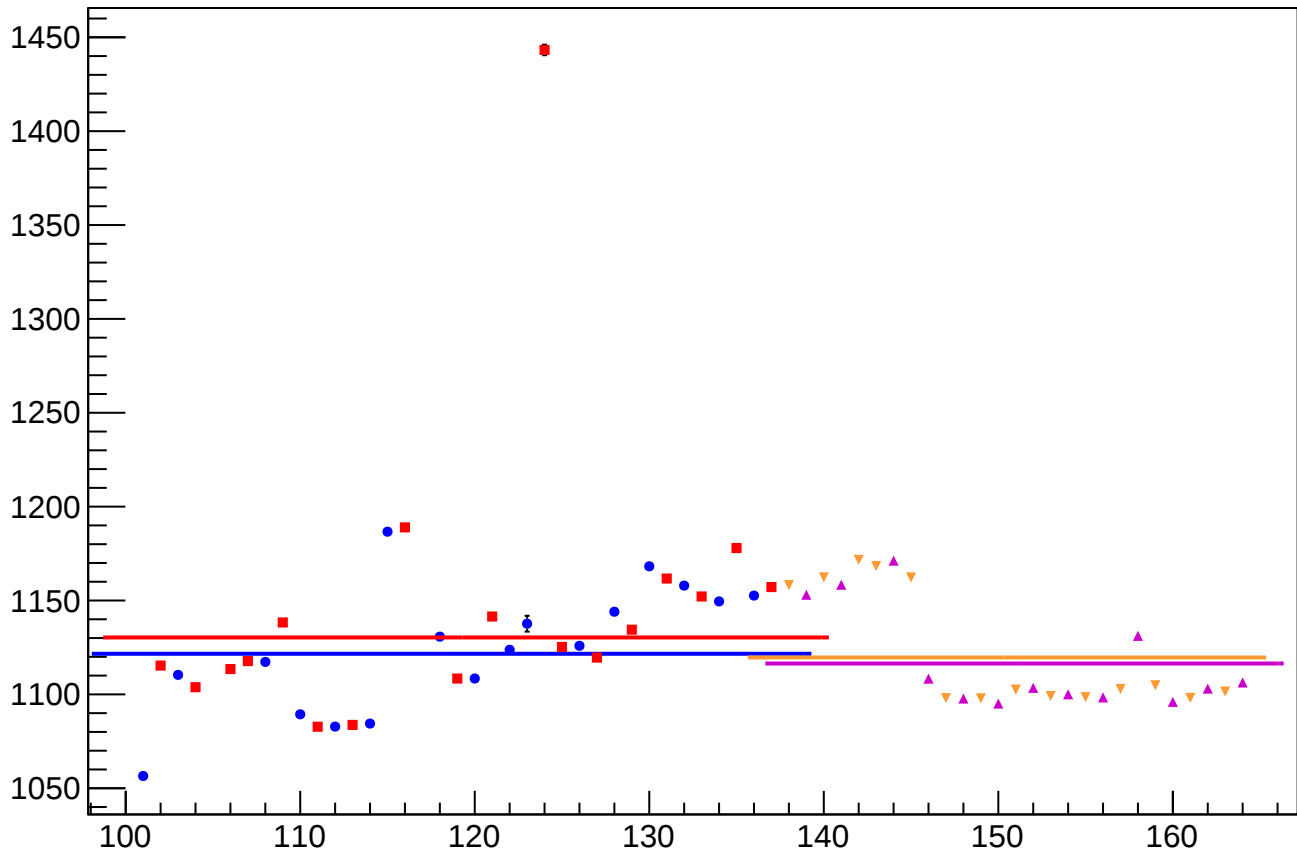
Left In: -2204.192 $\pm$ 345.821  $\chi^2$ /NDF:21.9/12

+ sign 2262.700 $\pm$ 268.432  $\chi^2$ /NDF: 26.0/30

All: 33.213 $\pm$ 189.782  $\chi^2$ /NDF: 199.3/61

- sign -2194.957 $\pm$ 268.353  $\chi^2$ /NDF: 35.4/30

# dit\_asym\_usr\_rms vs Slug



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

Left Out: 1119.641 $\pm$ 0.242  $\chi^2$ /NDF:14714.7/13

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

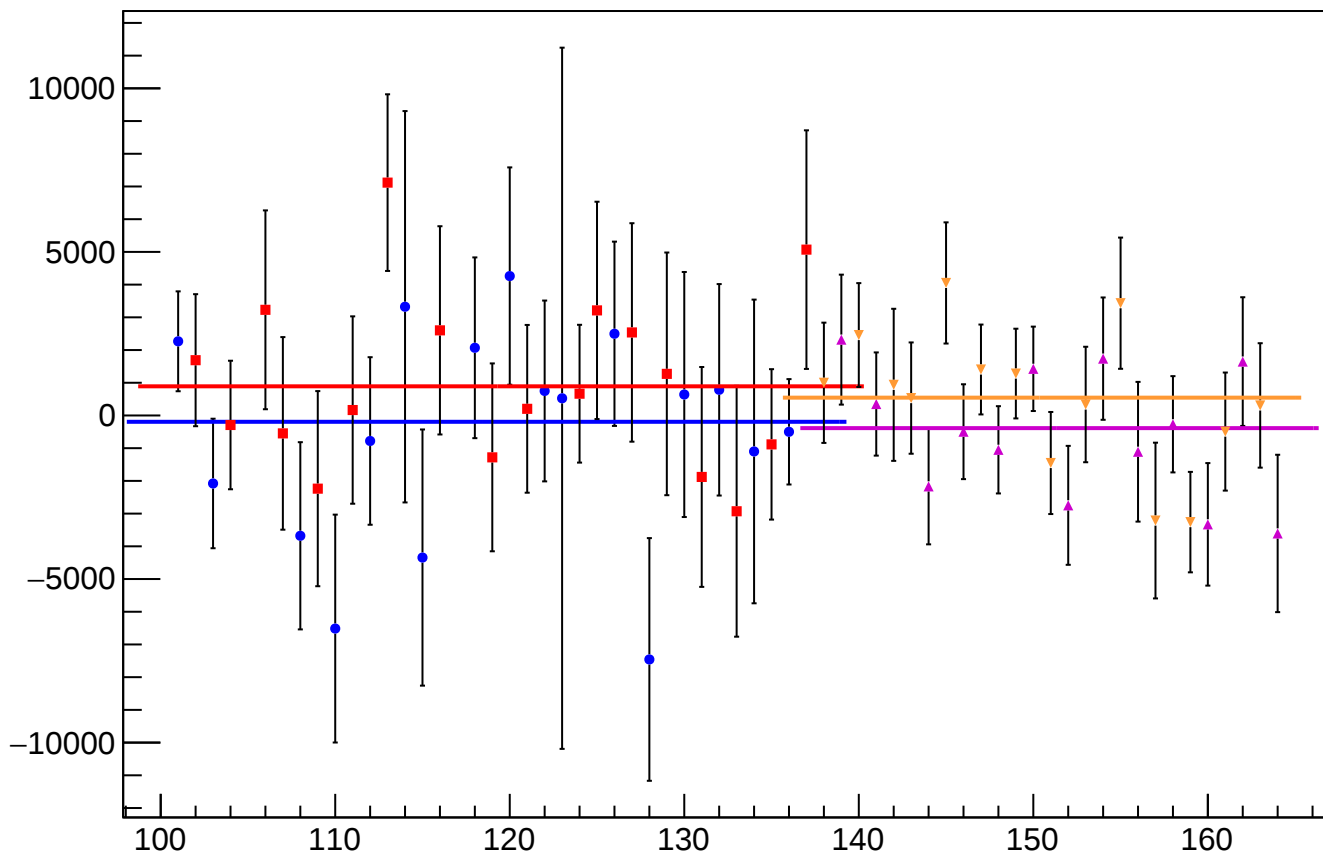
Left In: 1116.446 $\pm$ 0.245  $\chi^2$ /NDF:10979.3/12

+ sign 1120.405 $\pm$ 0.190  $\chi^2$ /NDF: 26720.9/30

All: 1121.185 $\pm$ 0.134  $\chi^2$ /NDF: 60289.9/61

- sign 1121.964 $\pm$ 0.190  $\chi^2$ /NDF: 33535.3/30

# asym\_usr\_correction\_mean vs Slug



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

Left Out:  $544.807 \pm 459.265$   $\chi^2/\text{NDF}$ : 18.5/13

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

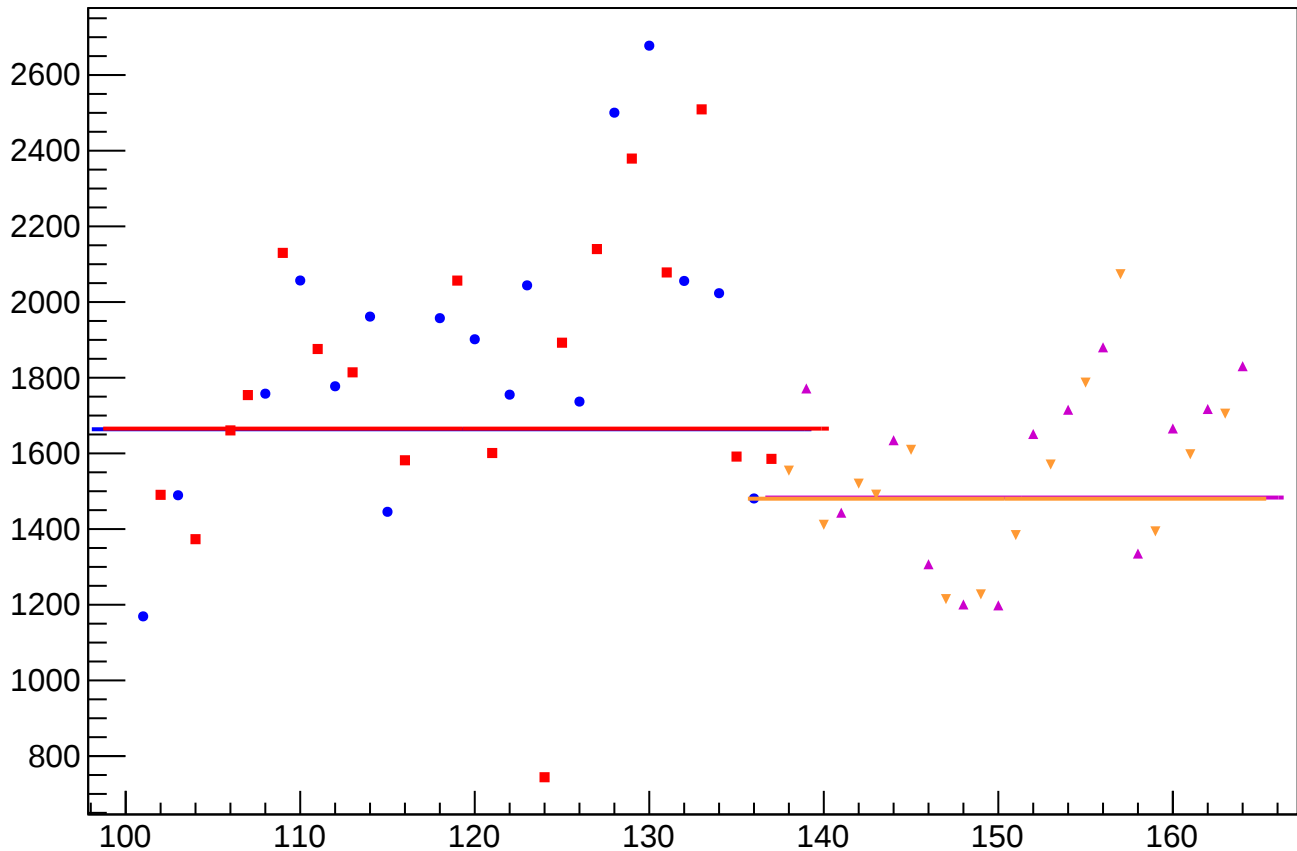
Left In:  $-386.914 \pm 466.323$   $\chi^2/\text{NDF}$ : 13.7/12

+ sign  $304.170 \pm 377.044$   $\chi^2/\text{NDF}$ : 36.7/30

All:  $176.606 \pm 267.223$   $\chi^2/\text{NDF}$ : 66.3/61

- sign  $47.865 \pm 378.782$   $\chi^2/\text{NDF}$ : 29.4/30

# asym\_usr\_correction\_rms vs Slug



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

Left Out: 1480.277 $\pm$ 0.325  $\chi^2$ /NDF: 386665.5/13

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

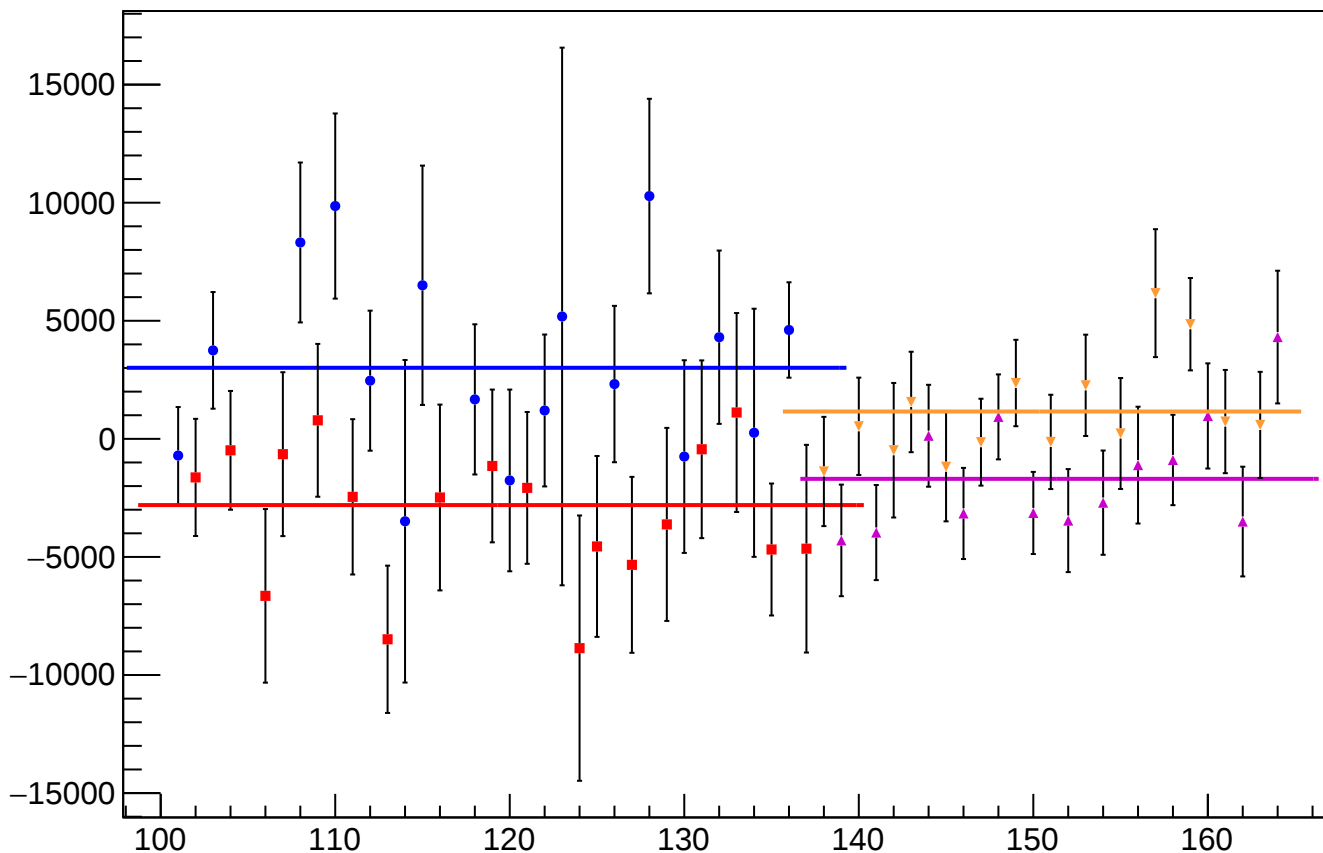
Left In: 1483.290 $\pm$ 0.330  $\chi^2$ /NDF: 501170.9/12

+ sign 1540.100 $\pm$ 0.267  $\chi^2$ /NDF: 1113232.9/30

All: 1542.672 $\pm$ 0.189  $\chi^2$ /NDF: 2521228.6/63

- sign 1545.268 $\pm$ 0.268  $\chi^2$ /NDF: 1407808.7/30

# asym\_usr\_mean vs Slug



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

Left Out: 1158.638+/-577.108  $\chi^2/\text{NDF}$ : 11.6/13

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

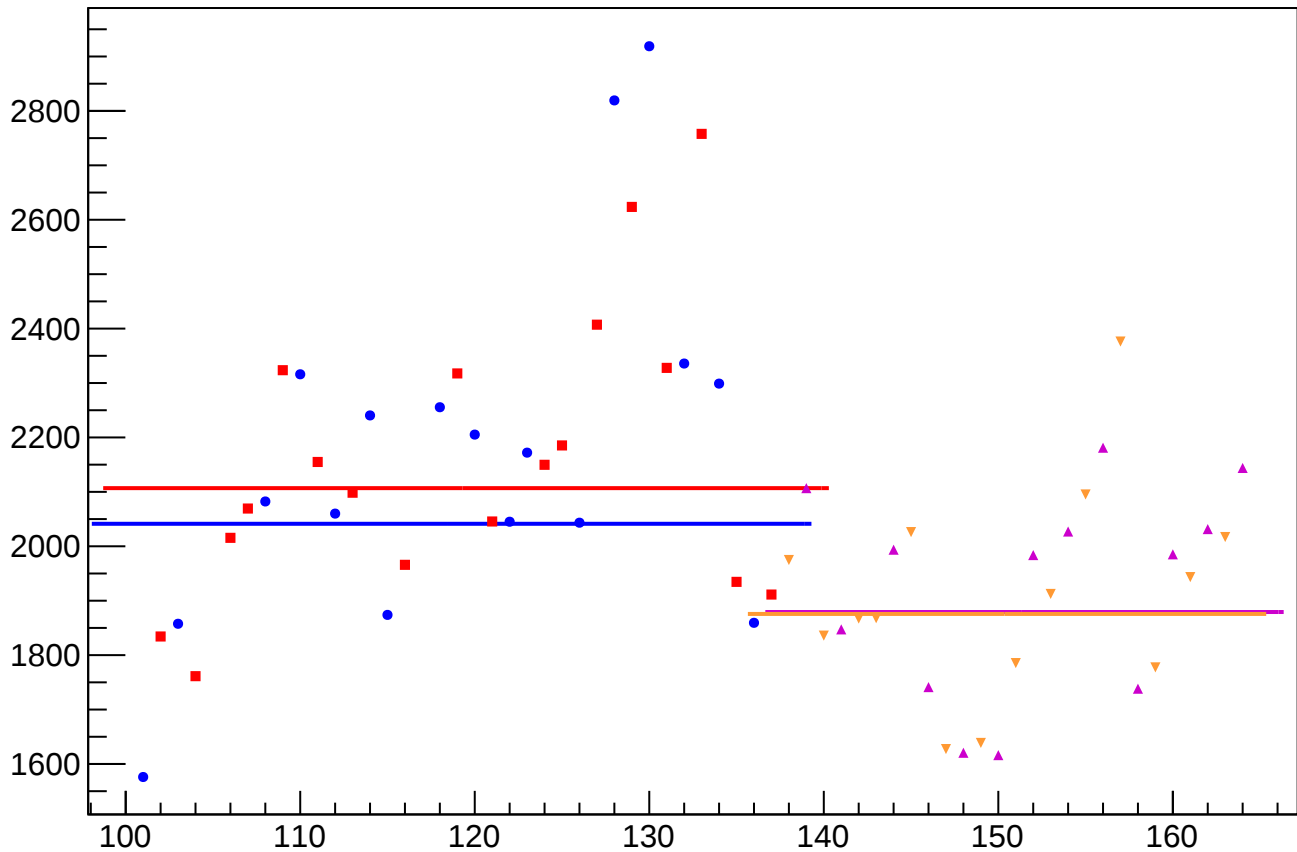
Left In: -1693.314+/-585.796  $\chi^2/\text{NDF}$ : 14.3/12

+ sign 1792.406+/-467.965  $\chi^2/\text{NDF}$ : 32.5/30

All: -125.531+/-332.510  $\chi^2/\text{NDF}$ : 93.1/61

- sign -2081.232+/-472.549  $\chi^2/\text{NDF}$ : 26.8/30

# asym\_usr\_rms vs Slug



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

Left Out: 1875.689+/-0.408  $\chi^2/\text{NDF}$ : 188250.2/13

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

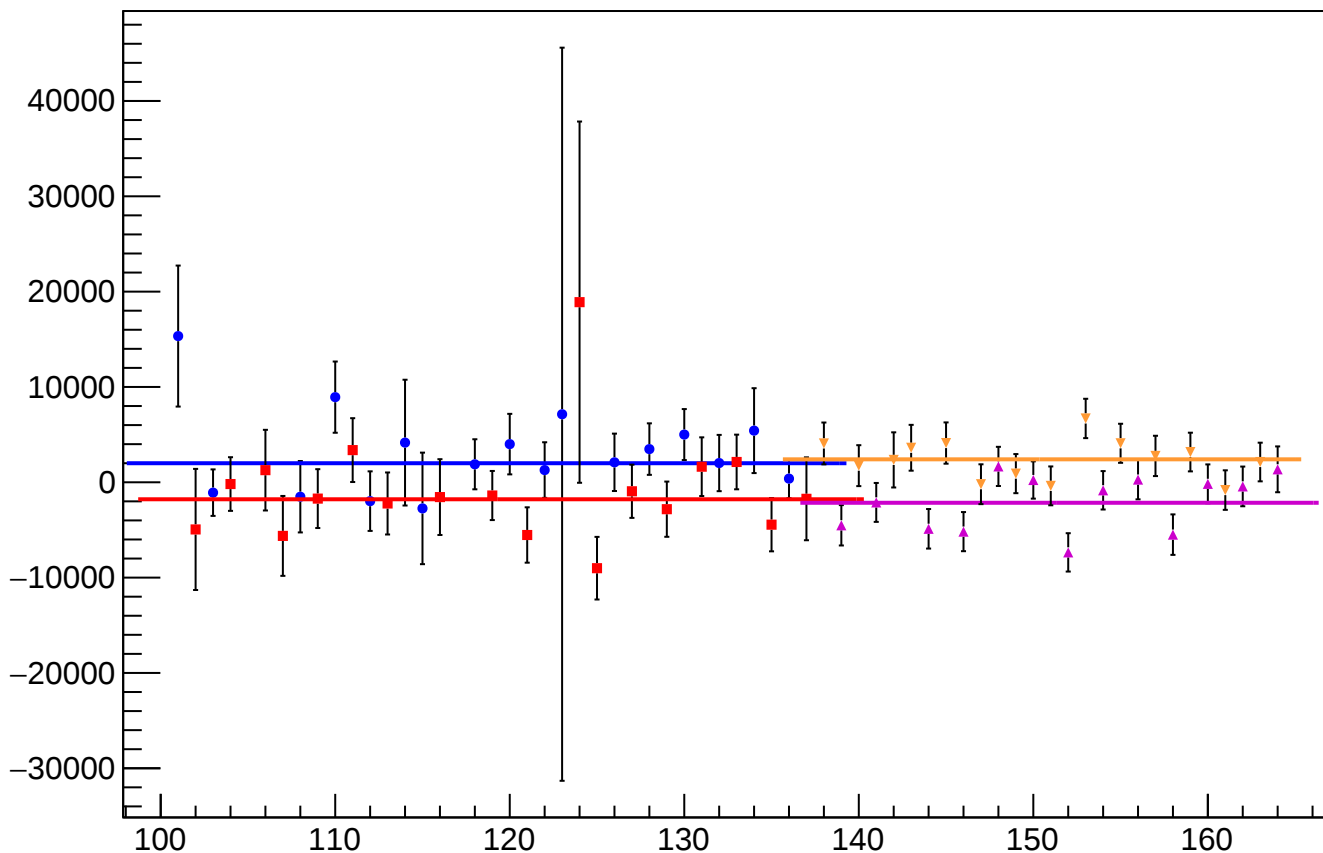
Left In: 1879.224+/-0.414  $\chi^2/\text{NDF}$ : 207114.4/12

+ sign 1932.423+/-0.331  $\chi^2/\text{NDF}$ : 583126.0/30

All: 1945.446+/-0.235  $\chi^2/\text{NDF}$ : 1095557.4/63

- sign 1958.725+/-0.334  $\chi^2/\text{NDF}$ : 509303.2/30

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



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

Left Out:  $2408.257 \pm 572.221$   $\chi^2/\text{NDF}$ : 13.1/13

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

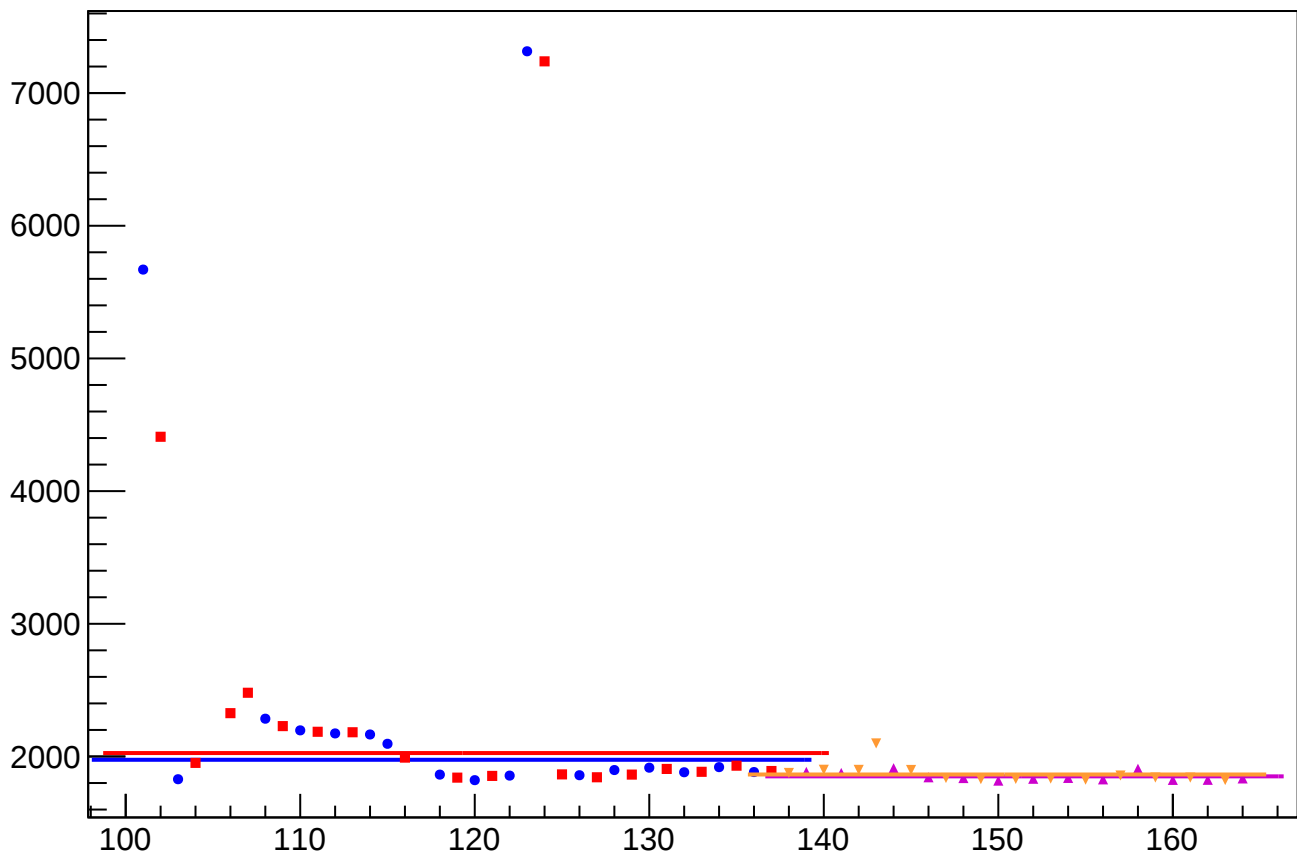
Left In:  $-2149.791 \pm 575.092$   $\chi^2/\text{NDF}$ : 24.8/12

+ sign  $2265.761 \pm 461.713$   $\chi^2/\text{NDF}$ : 28.1/30

All:  $129.767 \pm 327.027$   $\chi^2/\text{NDF}$ : 112.3/61

- sign  $-2020.599 \pm 463.263$   $\chi^2/\text{NDF}$ : 41.2/30

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



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

Left Out: 1864.286+/-0.405  $\chi^2/\text{NDF}$ : 24414.5/13

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

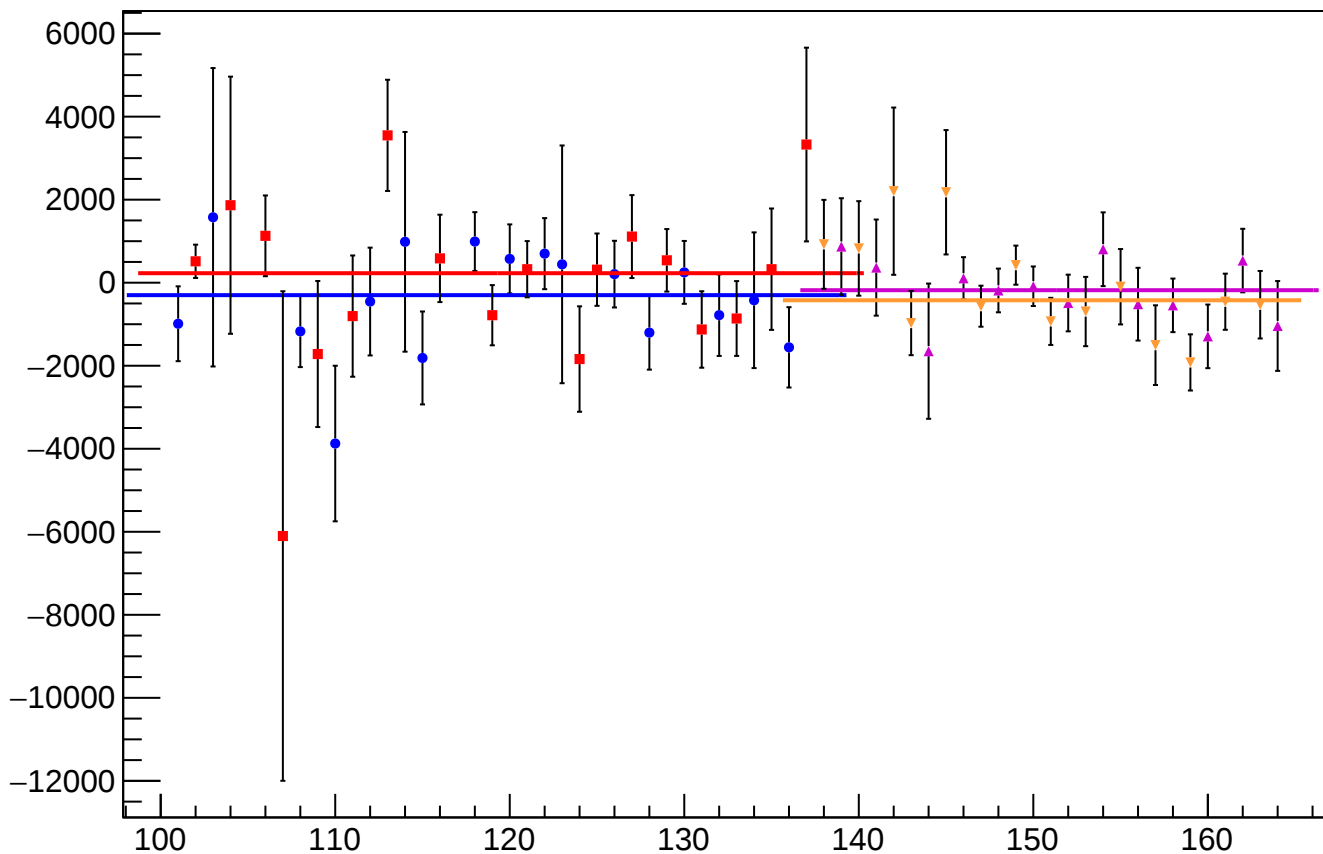
Left In: 1850.214+/-0.407  $\chi^2/\text{NDF}$ : 5873.3/12

+ sign 1902.958+/-0.326  $\chi^2/\text{NDF}$ : 650423.1/30

All: 1907.407+/-0.231  $\chi^2/\text{NDF}$ : 1257564.5/61

- sign 1911.887+/-0.328  $\chi^2/\text{NDF}$ : 606768.7/30

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



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

Left Out:  $-423.292 \pm 198.639$   $\chi^2/\text{NDF}$ : 18.5/13

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

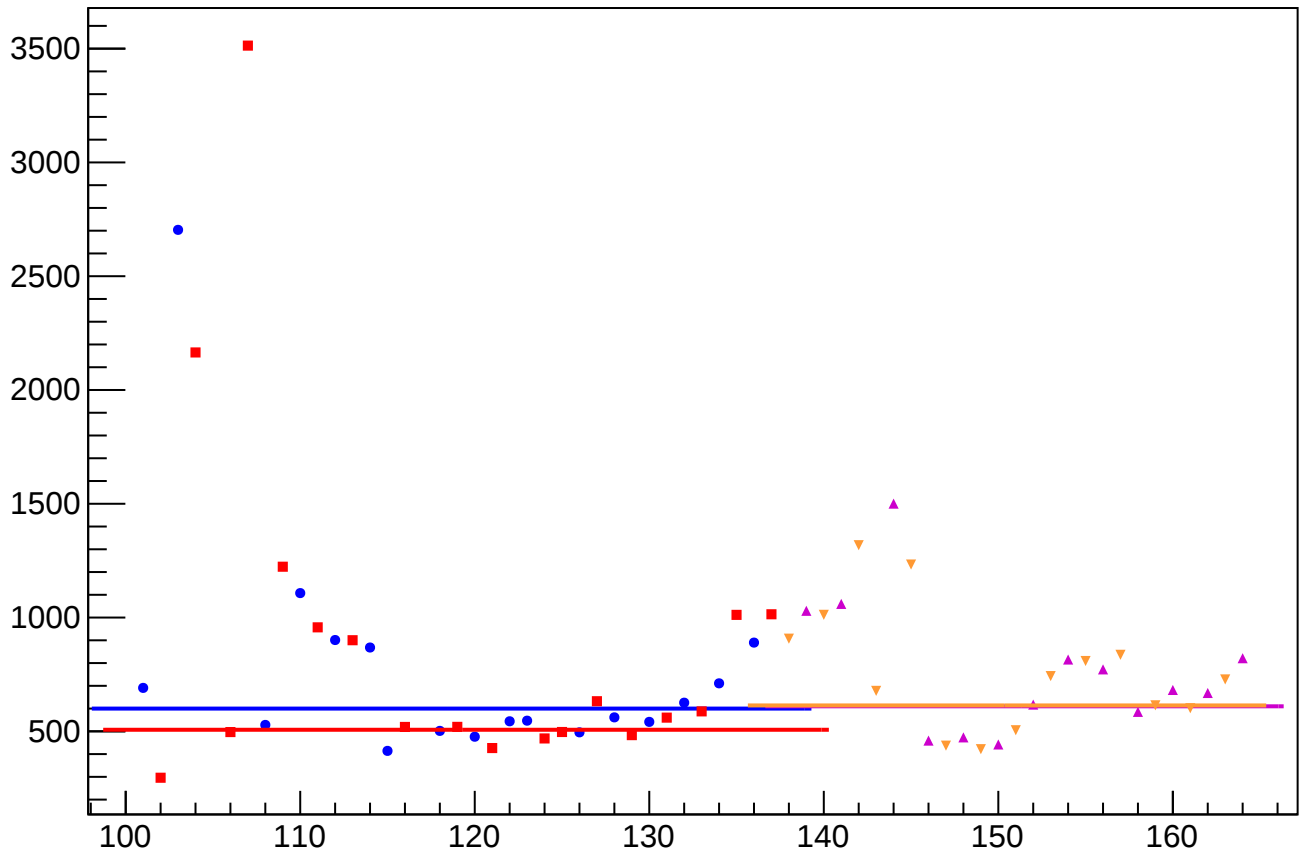
Left In:  $-180.861 \pm 199.510$   $\chi^2/\text{NDF}$ : 7.7/12

+ sign  $-374.774 \pm 154.698$   $\chi^2/\text{NDF}$ : 36.0/30

All:  $-172.852 \pm 106.349$   $\chi^2/\text{NDF}$ : 70.7/61

- sign  $8.089 \pm 146.441$   $\chi^2/\text{NDF}$ : 31.4/30

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



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

Left Out: 613.829+/-0.140  $\chi^2/\text{NDF}$ :1945556.5/13

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

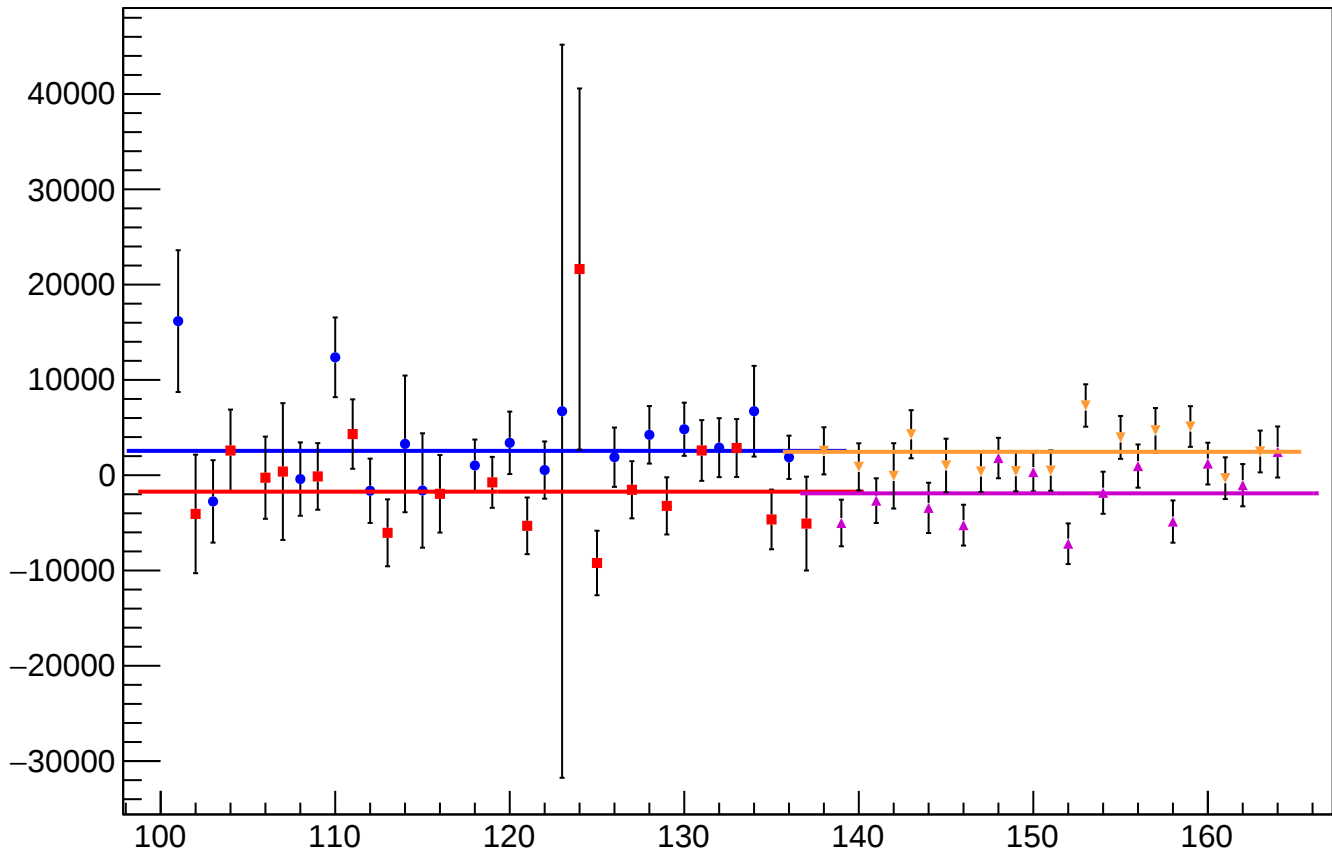
Left In: 609.966+/-0.141  $\chi^2/\text{NDF}$ :2002371.7/12

+ sign 608.369+/-0.109  $\chi^2/\text{NDF}$ : 3330446.1/30

All: 584.134+/-0.075  $\chi^2/\text{NDF}$ : 8433054.9/61

- sign 562.416+/-0.104  $\chi^2/\text{NDF}$ : 5009534.5/30

# asym\_at1\_avg\_mean vs Slug



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

Left Out: 2456.953 $\pm$ 622.454  $\chi^2$ /NDF:13.8/13

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

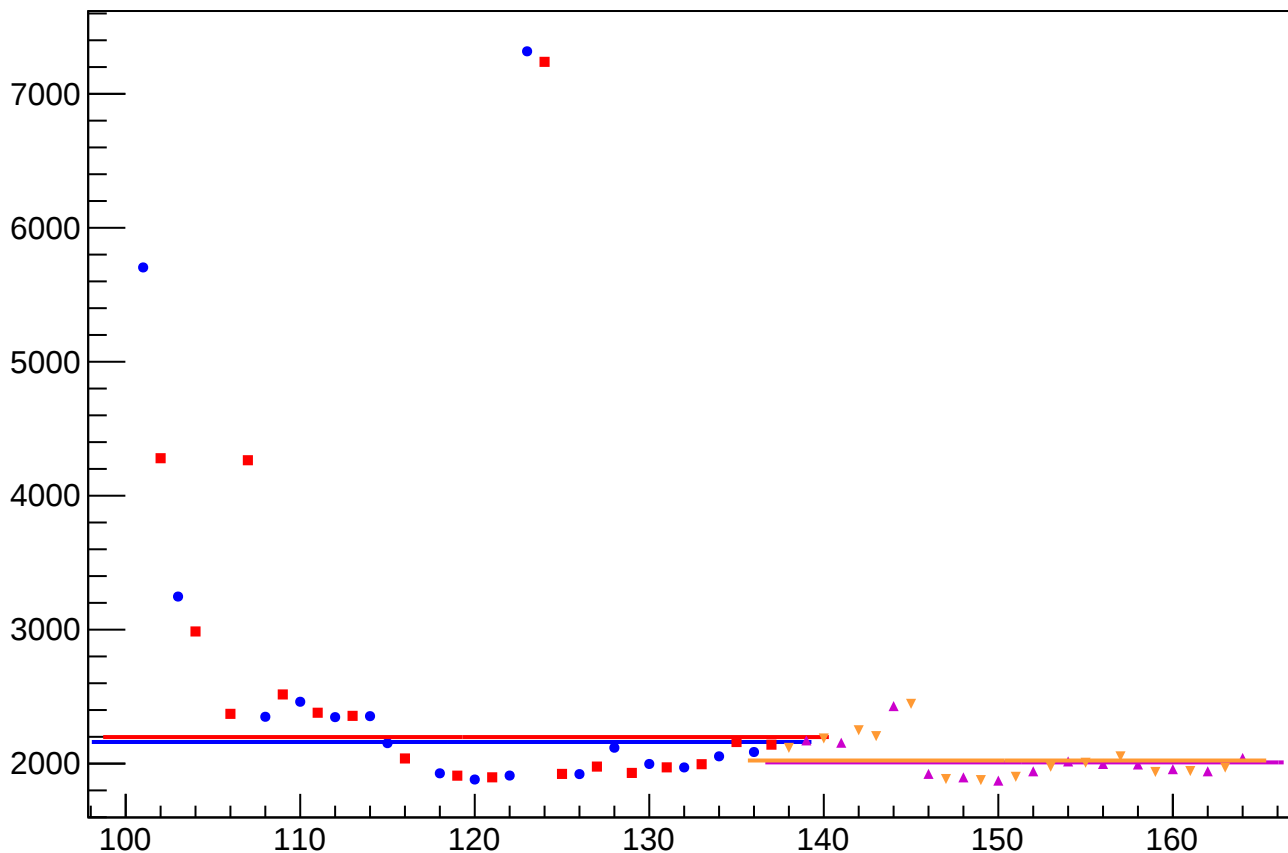
Left In: -1903.622 $\pm$ 625.793  $\chi^2$ /NDF:23.1/12

+ sign 2490.232 $\pm$ 504.016  $\chi^2$ /NDF: 29.5/30

All: 328.384 $\pm$ 356.746  $\chi^2$ /NDF: 109.0/61

- sign -1842.051 $\pm$ 505.015  $\chi^2$ /NDF: 42.6/30

# asym\_at1\_avg\_rms vs Slug



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

Left Out: 2023.209+/-0.440  $\chi^2/\text{NDF}$ : 109196.8/13

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

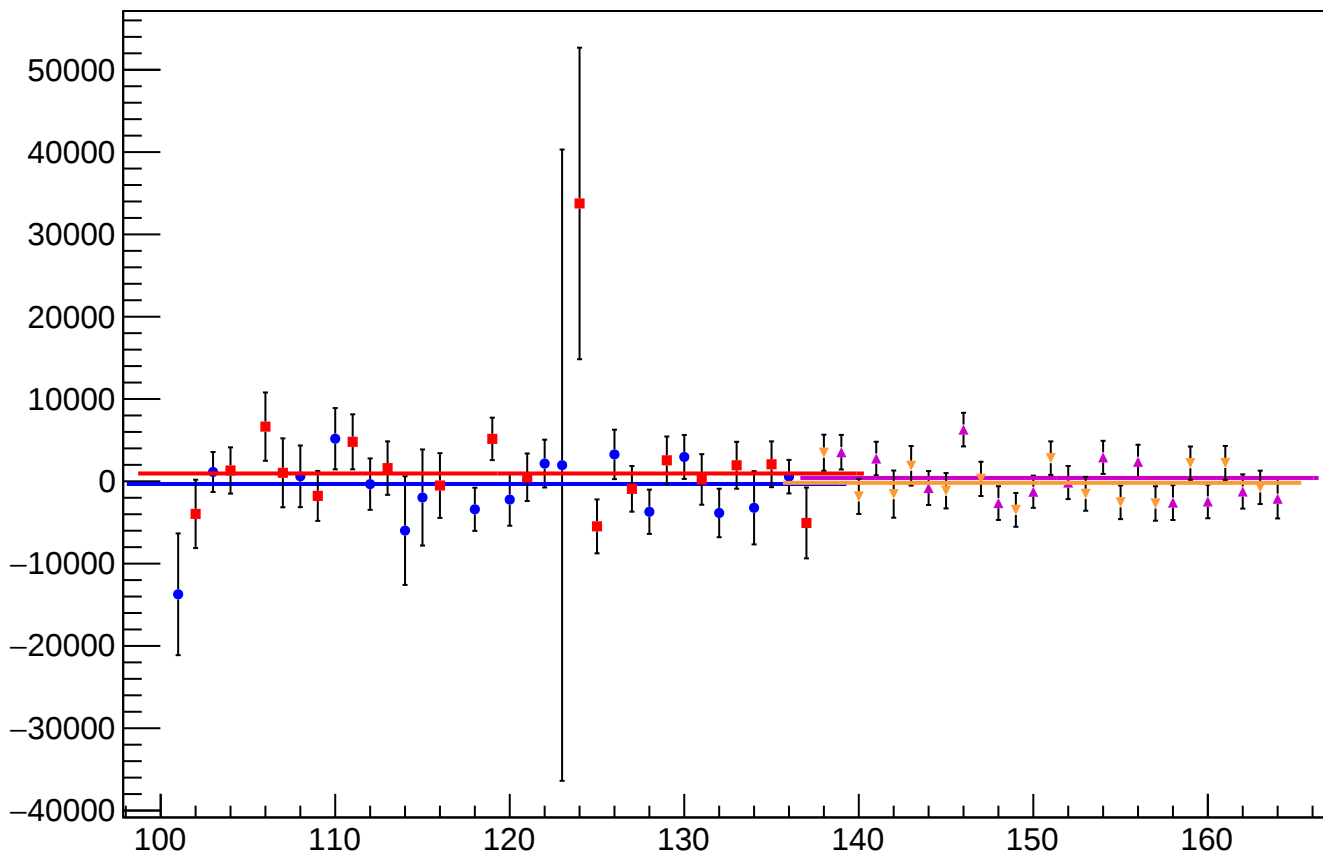
Left In: 2009.021+/-0.443  $\chi^2/\text{NDF}$ : 90847.7/12

+ sign 2070.801+/-0.356  $\chi^2/\text{NDF}$ : 854403.8/30

All: 2072.893+/-0.252  $\chi^2/\text{NDF}$ : 1742927.4/63

- sign 2074.993+/-0.357  $\chi^2/\text{NDF}$ : 888454.6/30

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



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

Left Out:  $-185.054 \pm 570.381$   $\chi^2/\text{NDF}$ : 15.4/13

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

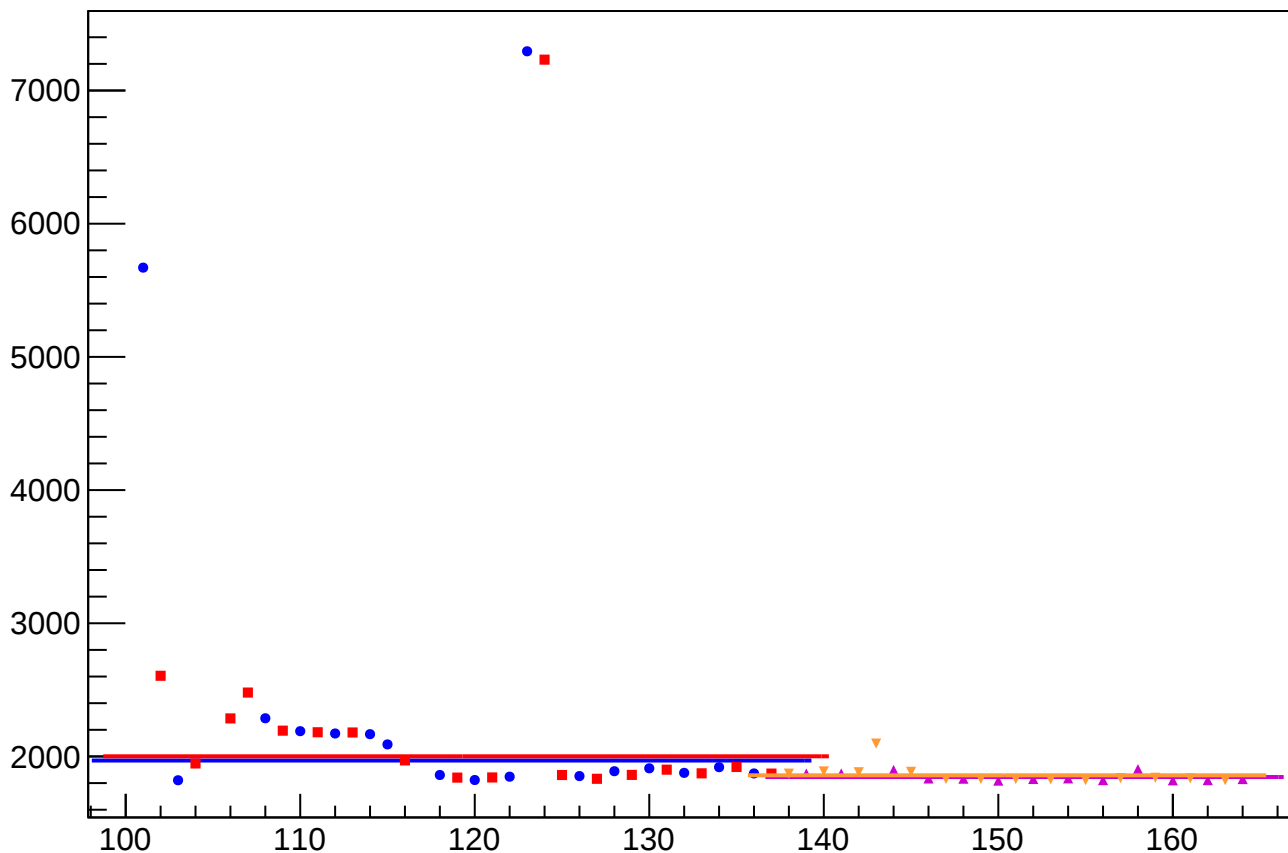
Left In:  $407.998 \pm 573.638$   $\chi^2/\text{NDF}$ : 23.3/12

+ sign  $-233.414 \pm 460.312$   $\chi^2/\text{NDF}$ : 31.1/30

All:  $184.417 \pm 325.406$   $\chi^2/\text{NDF}$ : 74.6/61

- sign  $601.819 \pm 460.076$   $\chi^2/\text{NDF}$ : 41.9/30

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



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

Left Out: 1858.369+/-0.403  $\chi^2/\text{NDF}$ : 23998.8/13

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

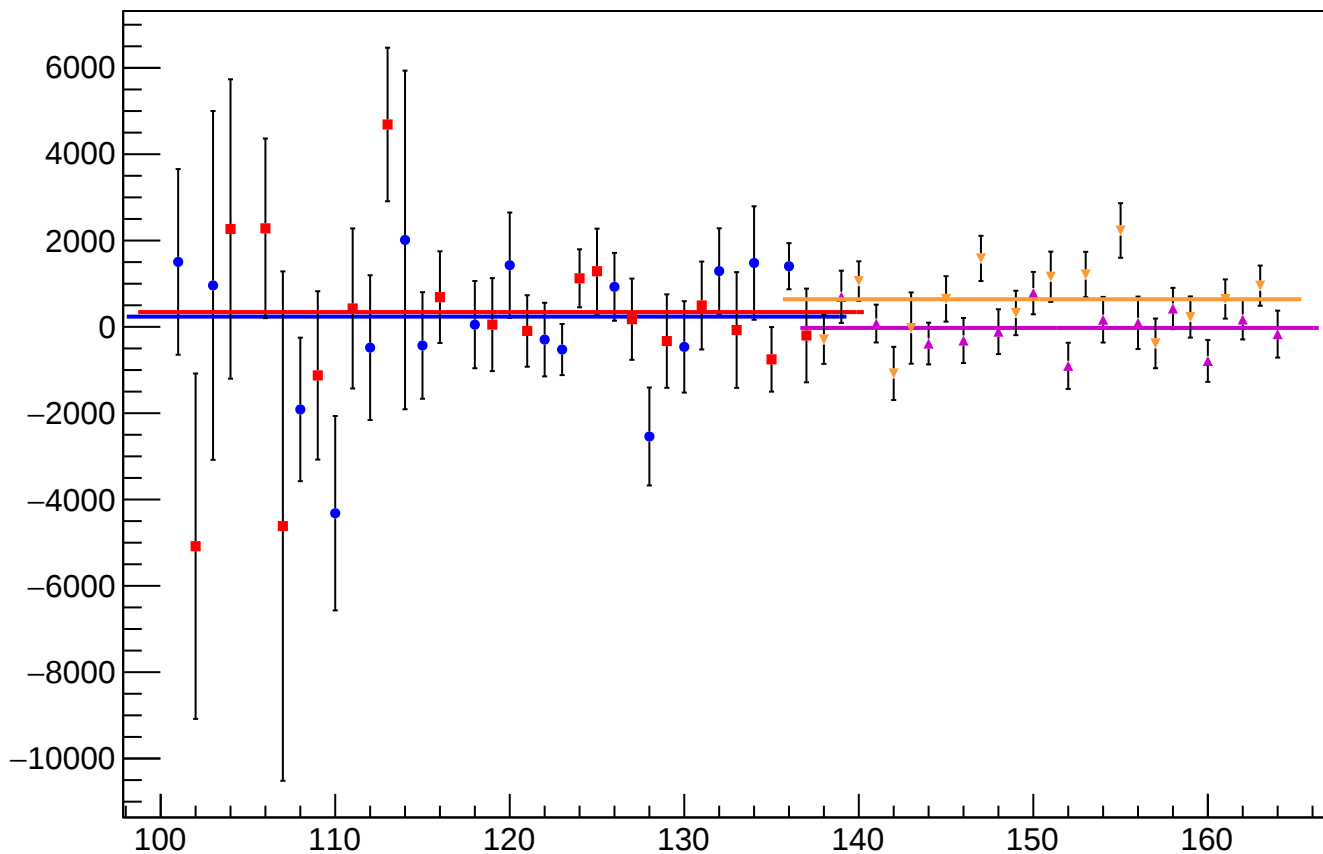
Left In: 1845.601+/-0.406  $\chi^2/\text{NDF}$ : 5124.4/12

+ sign 1897.120+/-0.325  $\chi^2/\text{NDF}$ : 653281.3/30

All: 1899.112+/-0.230  $\chi^2/\text{NDF}$ : 1001586.0/63

- sign 1901.102+/-0.325  $\chi^2/\text{NDF}$ : 348229.9/30

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



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

Left Out: 640.180 $\pm$ 142.891  $\chi^2$ /NDF:28.3/13

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

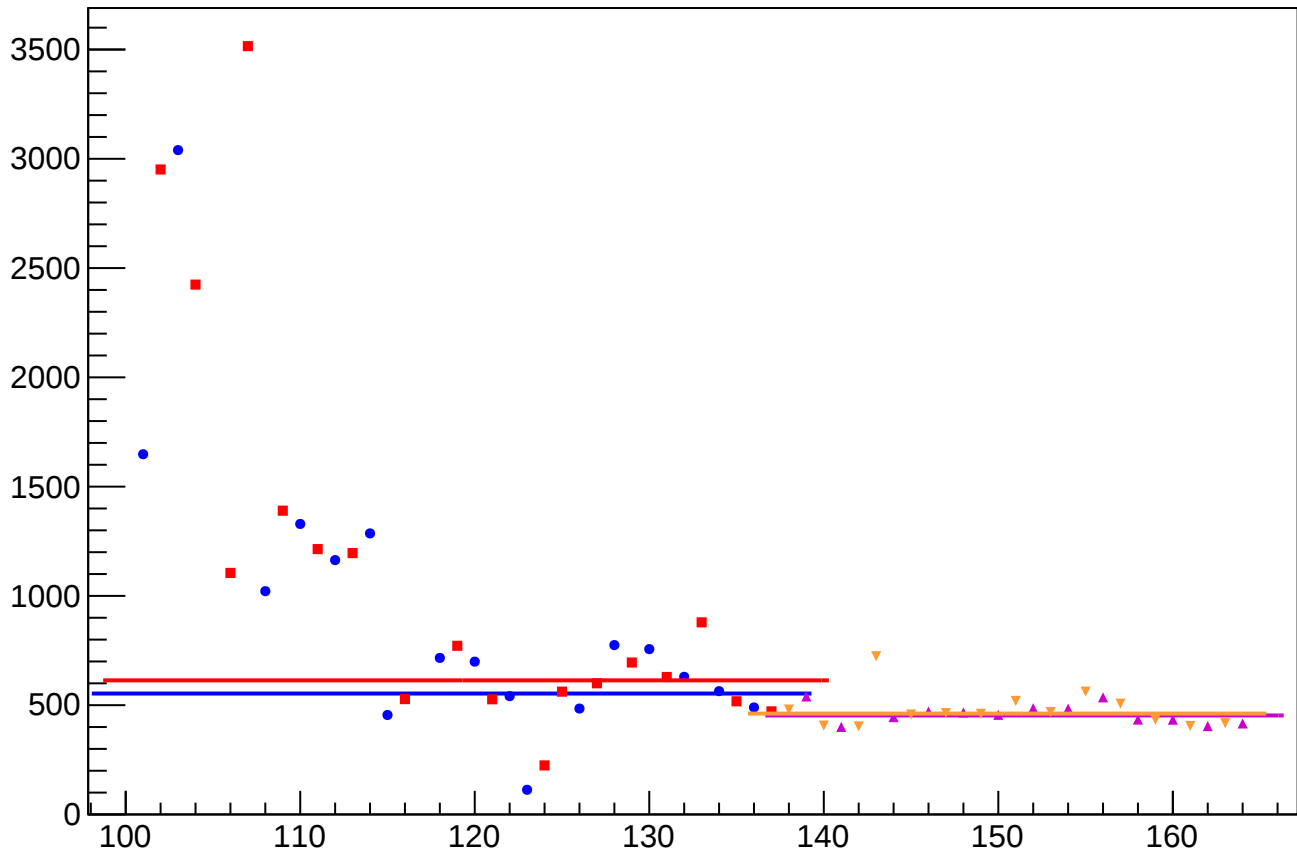
Left In: -24.711 $\pm$ 141.108  $\chi^2$ /NDF:11.6/12

+ sign 540.026 $\pm$ 123.885  $\chi^2$ /NDF: 54.2/30

All: 299.419 $\pm$ 87.963  $\chi^2$ /NDF: 90.7/61

- sign 54.788 $\pm$ 124.917  $\chi^2$ /NDF: 28.9/30

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



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

Left Out:  $461.539 \pm 0.101$   $\chi^2/\text{NDF}: 390001.5/13$

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

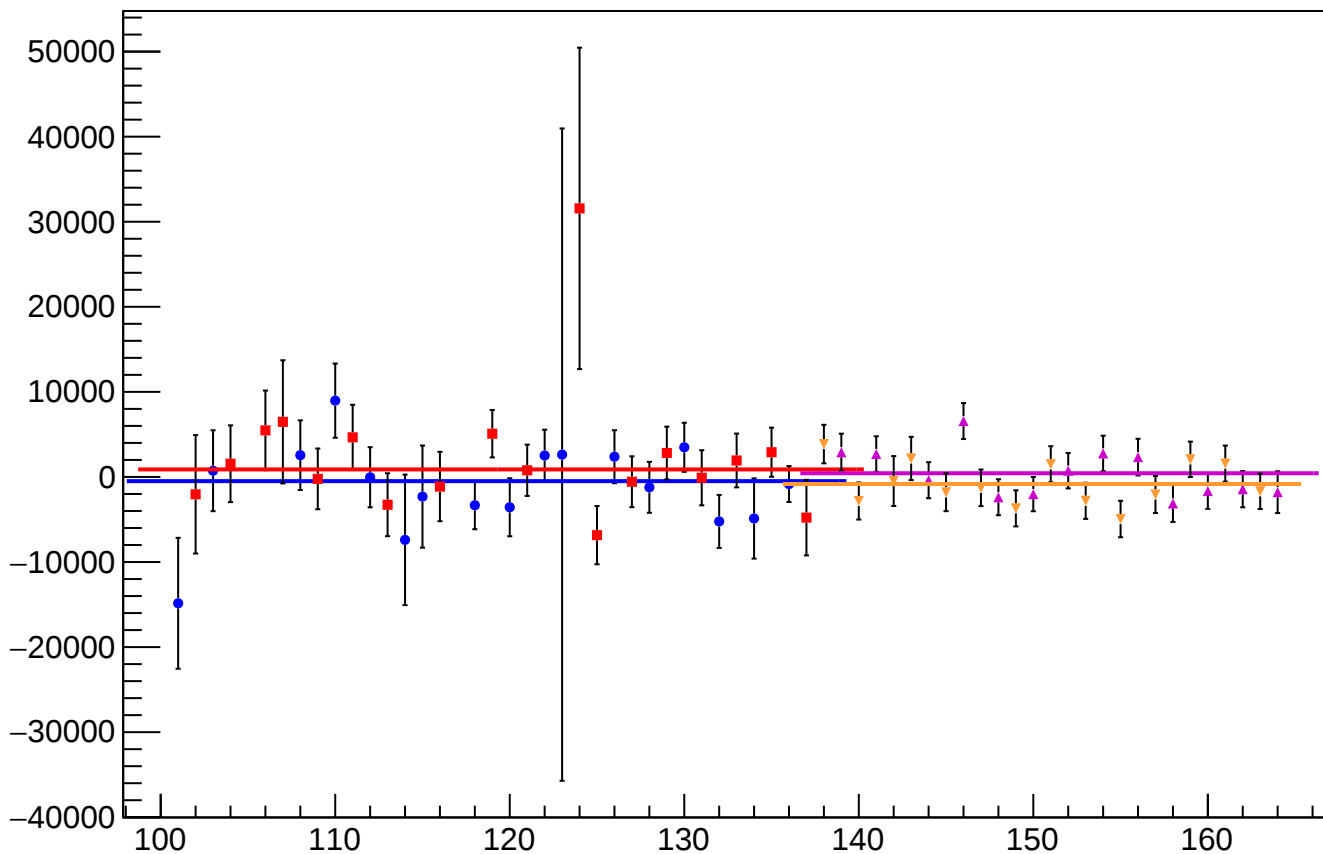
Left In:  $452.939 \pm 0.100$   $\chi^2/\text{NDF}: 163443.4/12$

+ sign  $484.321 \pm 0.088$   $\chi^2/\text{NDF}: 4007472.7/30$

All:  $485.990 \pm 0.062$   $\chi^2/\text{NDF}: 8208708.5/61$

- sign  $487.688 \pm 0.088$   $\chi^2/\text{NDF}: 4200503.2/30$

# asym\_at1\_dd\_mean vs Slug



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

Left Out: -830.595+/-589.676  $\chi^2$ /NDF:18.1/13

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

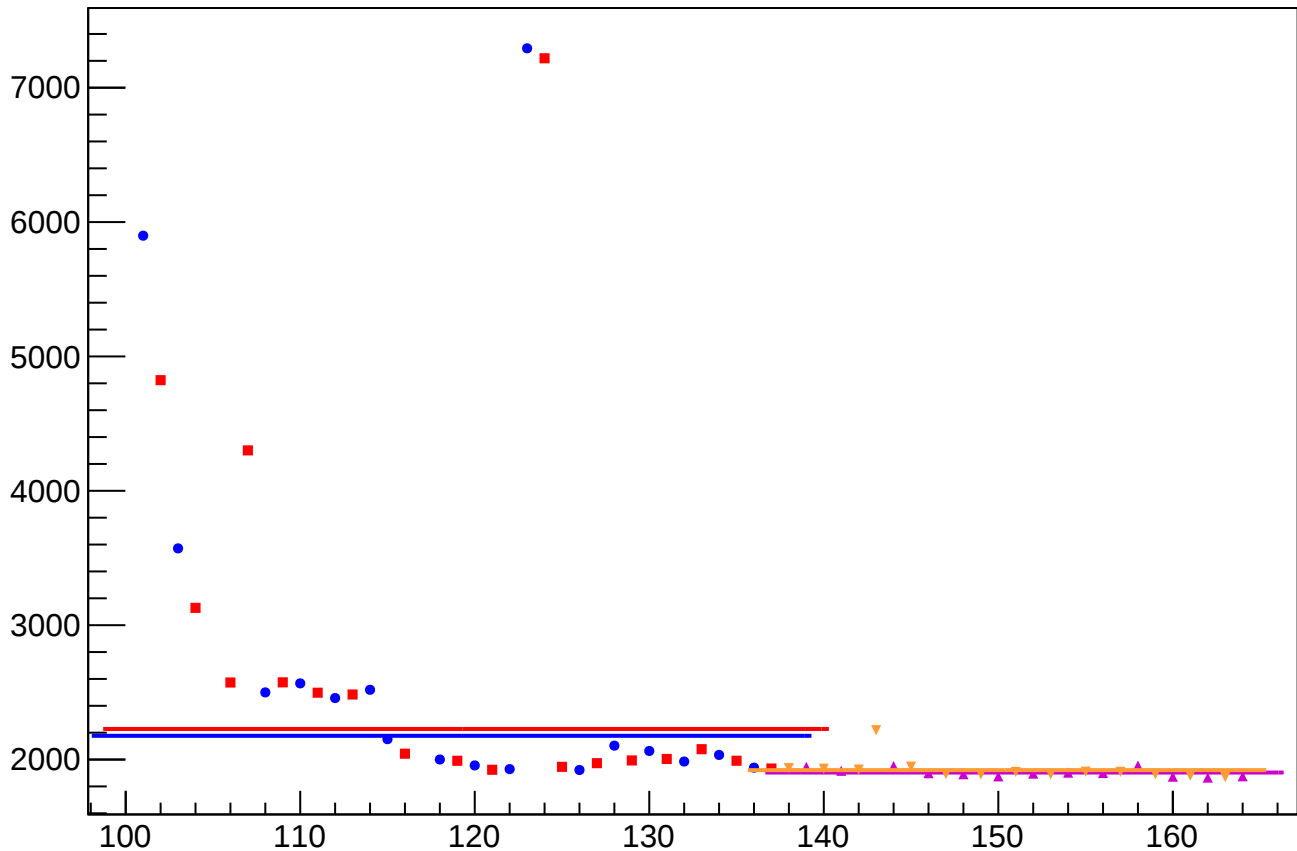
Left In: 434.878+/-591.536  $\chi^2$ /NDF:21.6/12

+ sign -723.653+/-487.764  $\chi^2$ /NDF: 36.7/30

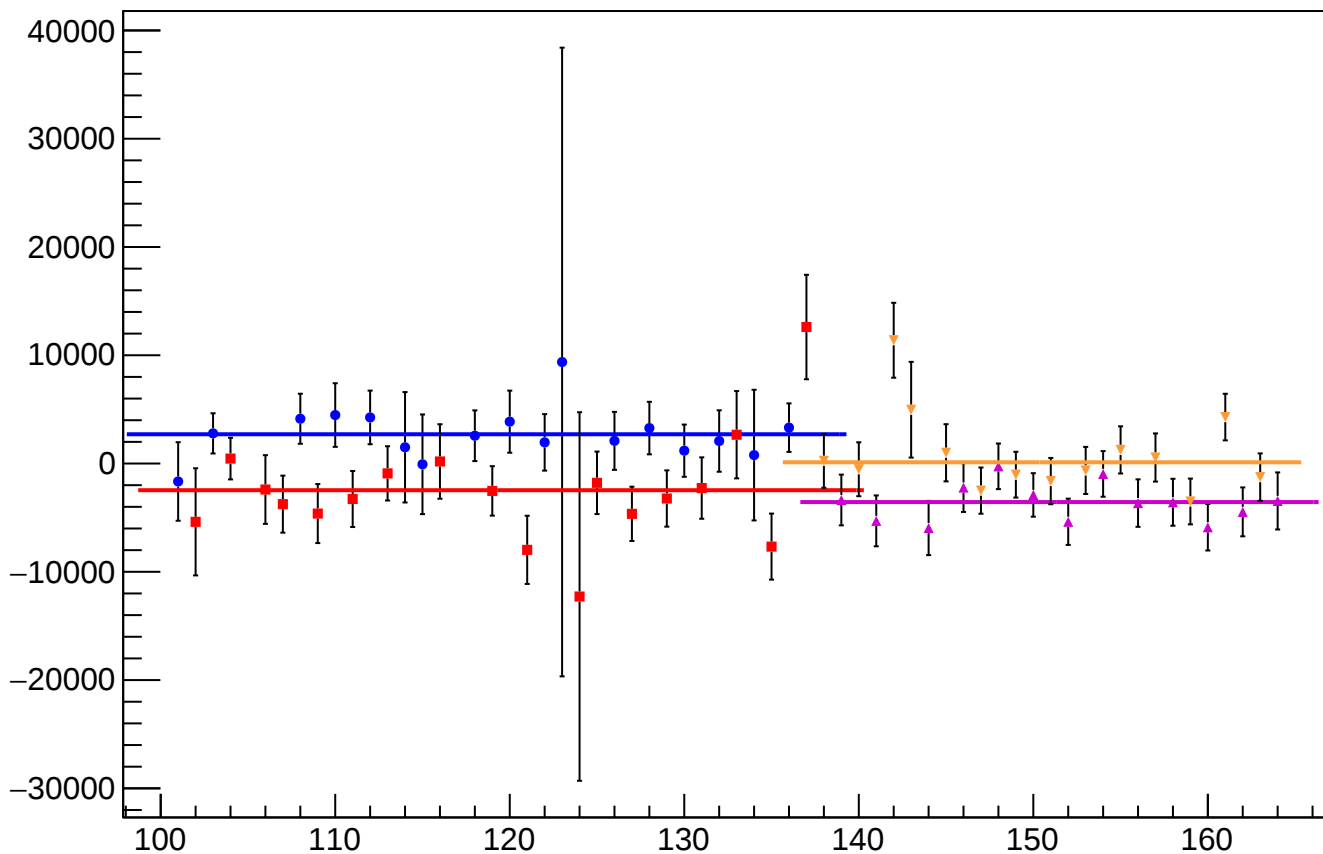
All: -74.868+/-345.345  $\chi^2$ /NDF: 79.3/61

- sign 577.265+/-489.021  $\chi^2$ /NDF: 39.0/30

# asym\_at1\_dd\_rms vs Slug



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



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

Left Out: 115.460 $\pm$ 627.999  $\chi^2$ /NDF:22.0/13

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

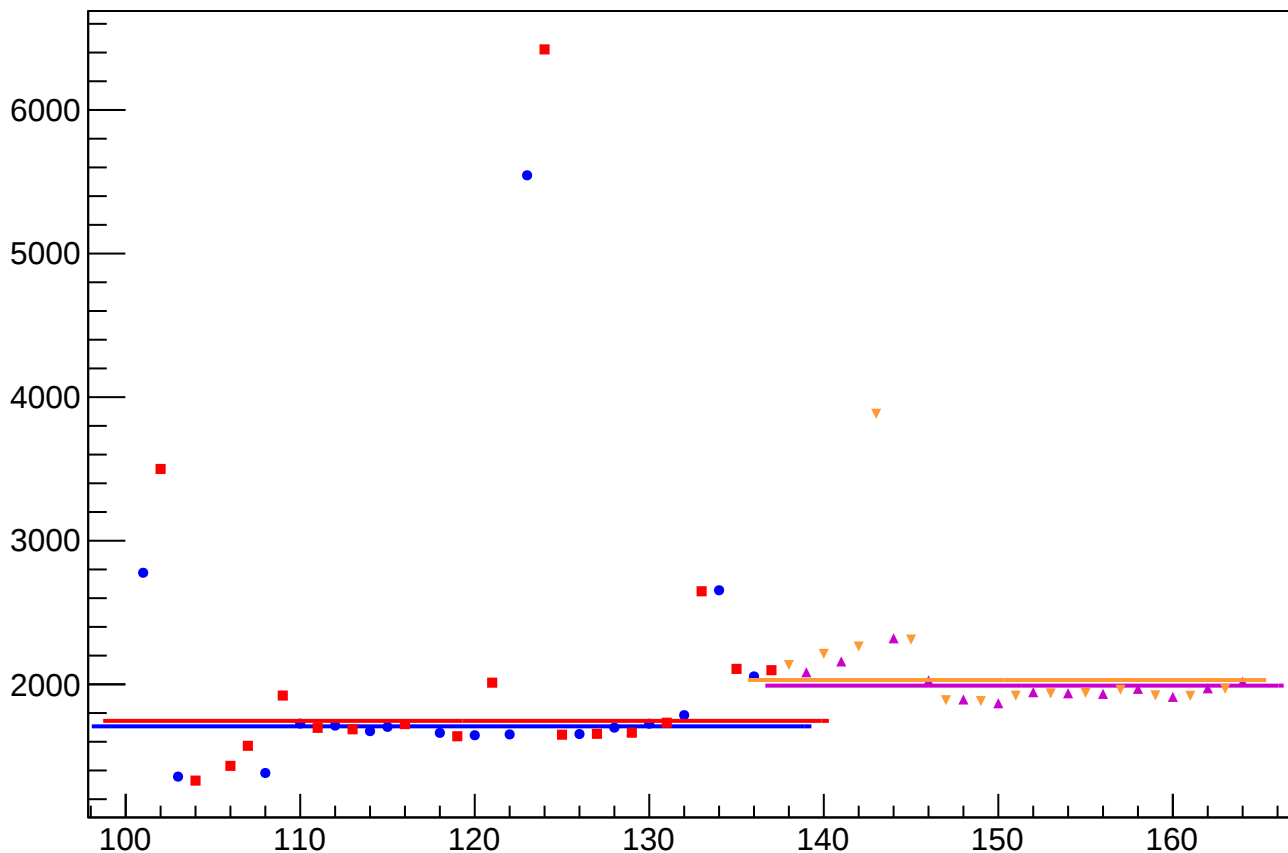
Left In: -3558.028 $\pm$ 618.424  $\chi^2$ /NDF:8.0/12

+ sign 1318.355 $\pm$ 459.433  $\chi^2$ /NDF: 33.9/30

All: -878.054 $\pm$ 324.541  $\chi^2$ /NDF: 112.1/61

- sign -3065.647 $\pm$ 458.510  $\chi^2$ /NDF: 32.6/30

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



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

Left Out: 2030.182+/-0.444  $\chi^2/\text{NDF}$ : 442447.5/13

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

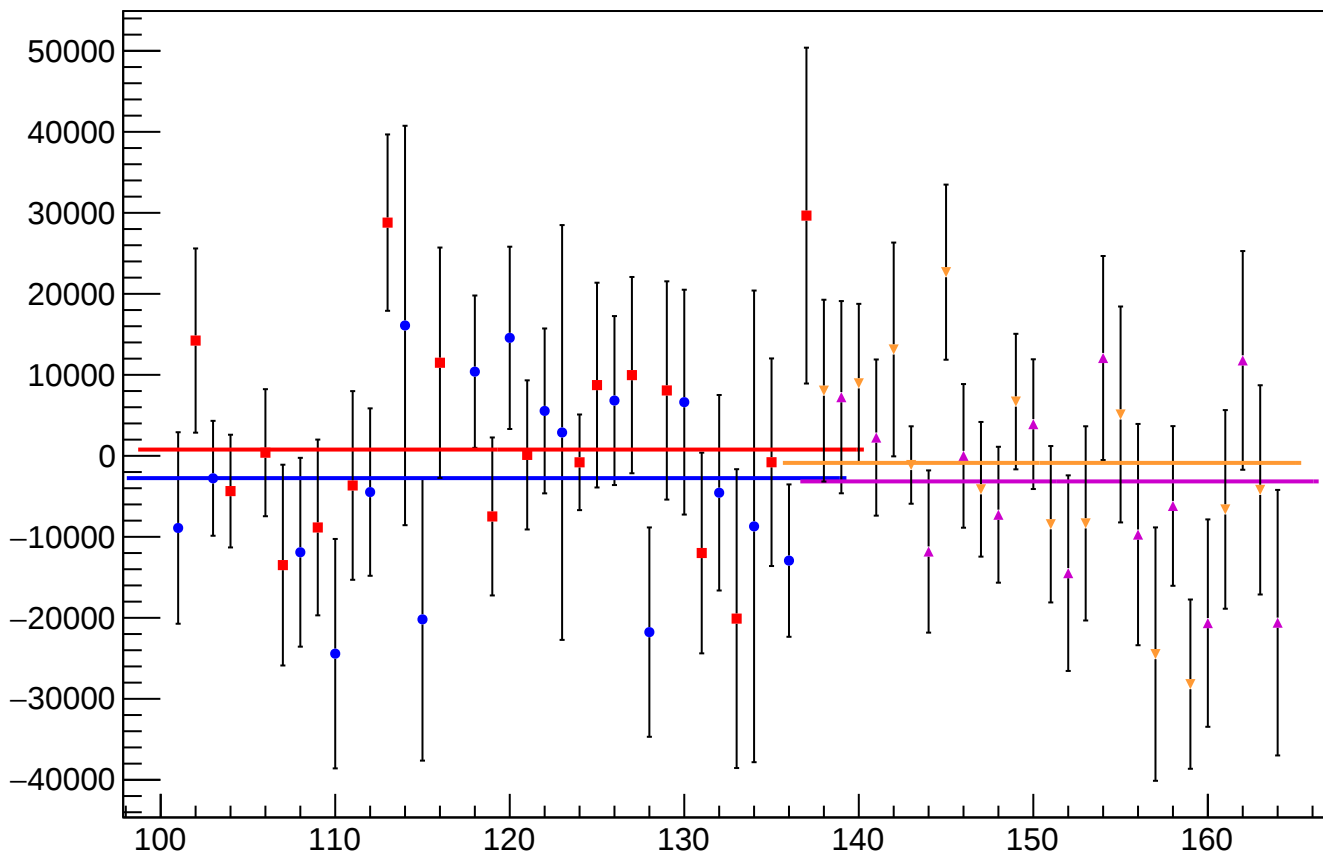
Left In: 1990.887+/-0.437  $\chi^2/\text{NDF}$ : 67051.2/12

+ sign 1880.150+/-0.325  $\chi^2/\text{NDF}$ : 1110211.8/30

All: 1880.264+/-0.229  $\chi^2/\text{NDF}$ : 2018284.6/63

- sign 1880.378+/-0.324  $\chi^2/\text{NDF}$ : 908072.5/30

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



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

Left Out: -871.347 $\pm$ 2545.349  $\chi^2$ /NDF: 19.1/13

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

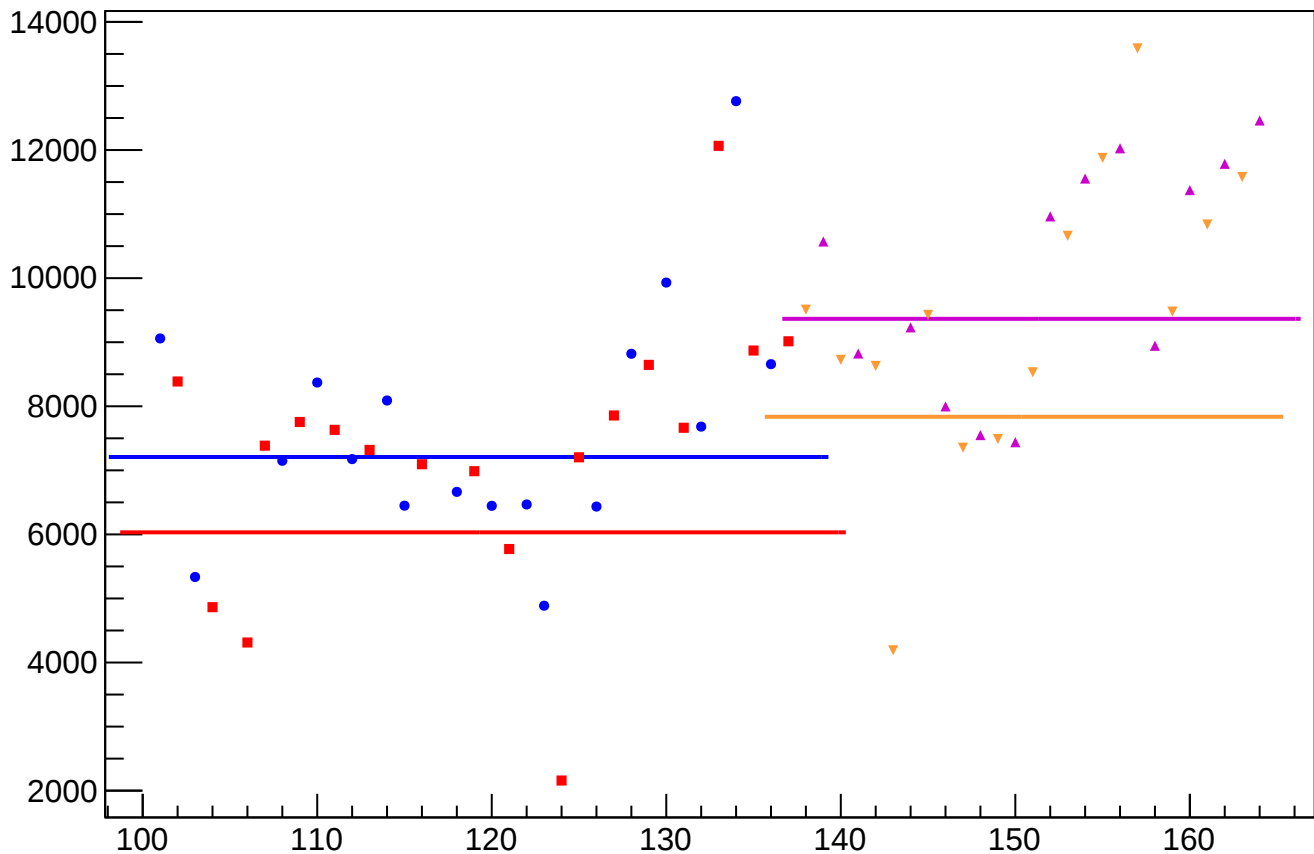
Left In: -3157.298 $\pm$ 2955.631  $\chi^2$ /NDF: 9.9/12

+ sign -1707.732 $\pm$ 1896.187  $\chi^2$ /NDF: 33.9/30

All: -1260.243 $\pm$ 1335.766  $\chi^2$ /NDF: 62.7/61

- sign -819.421 $\pm$ 1882.011  $\chi^2$ /NDF: 28.7/30

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



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

Left Out: 7836.139+/-1.800  $\chi^2/\text{NDF}$ : 2197318.1/13

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

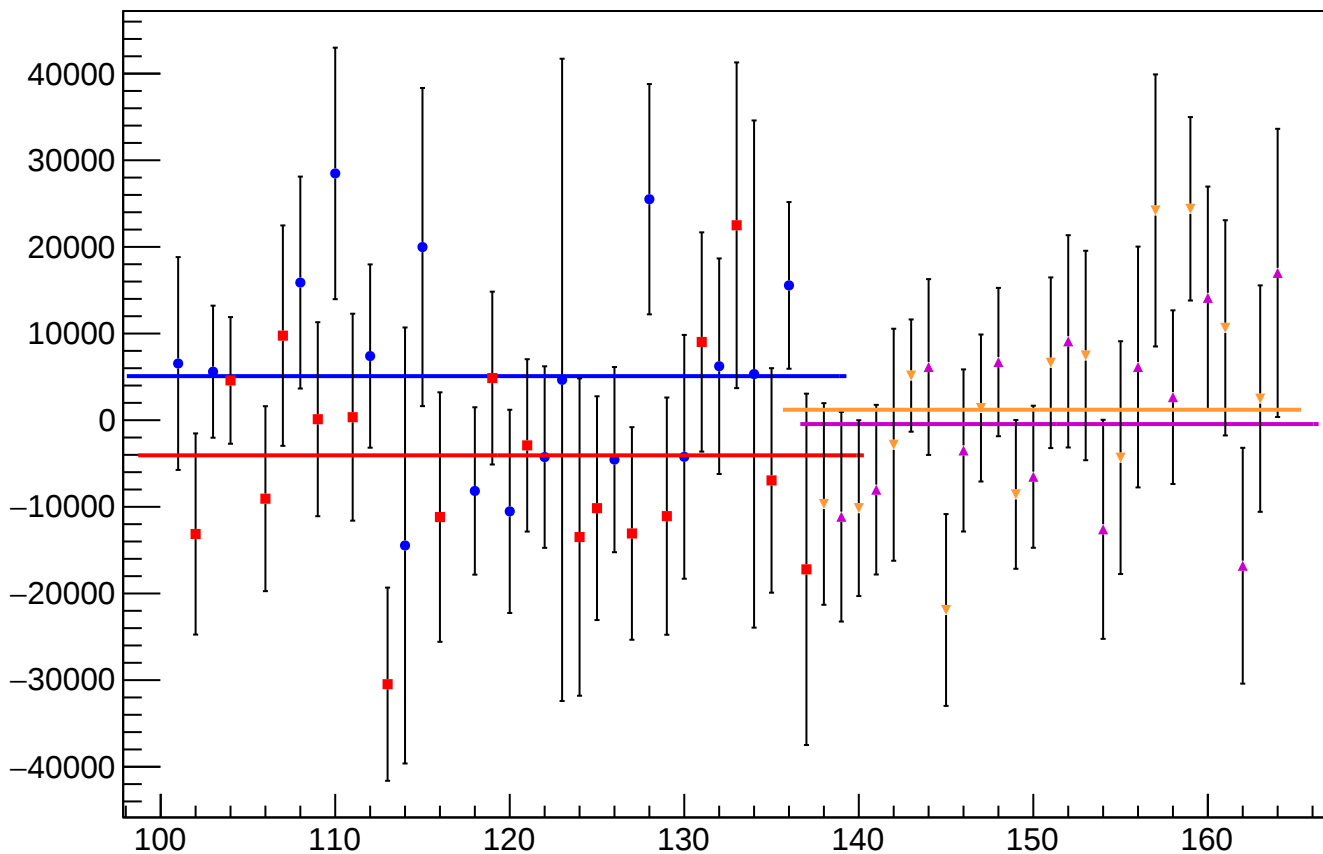
Left In: 9365.136+/-2.090  $\chi^2/\text{NDF}$ : 644200.8/12

+ sign 7556.750+/-1.341  $\chi^2/\text{NDF}$ : 2745213.2/30

All: 7469.502+/-0.945  $\chi^2/\text{NDF}$ : 6707444.0/63

- sign 7383.554+/-1.331  $\chi^2/\text{NDF}$ : 3953825.3/30

# asym\_at2\_avg\_mean vs Slug



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

Left Out: 1204.554 $\pm$ 2772.131  $\chi^2$ /NDF:16.5/13

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

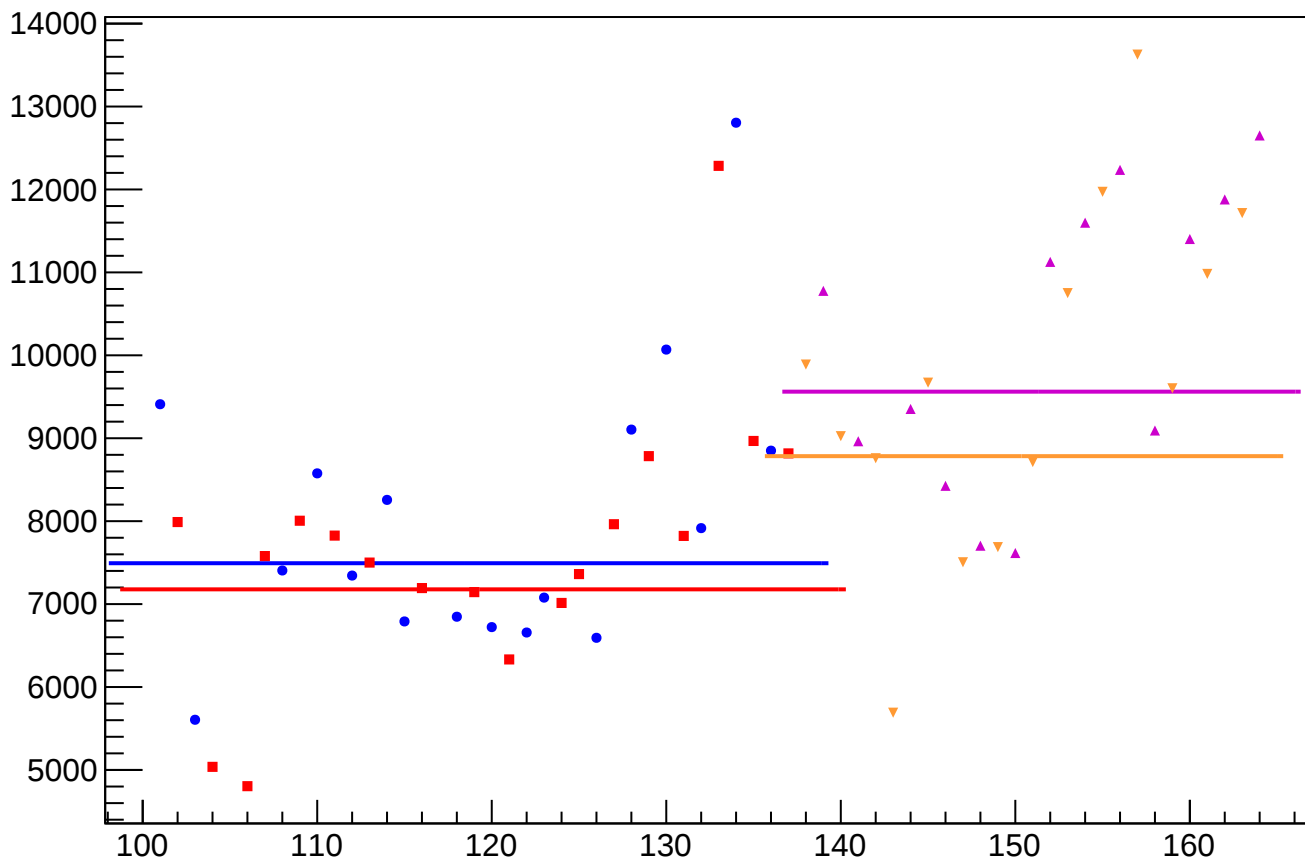
Left In: -446.863 $\pm$ 3014.152  $\chi^2$ /NDF:8.8/12

+ sign 3020.665 $\pm$ 2021.830  $\chi^2$ /NDF: 31.4/30

All: 357.690 $\pm$ 1440.012  $\chi^2$ /NDF: 59.7/61

- sign -2383.917 $\pm$ 2051.463  $\chi^2$ /NDF: 24.8/30

# asym\_at2\_avg\_rms vs Slug



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

Left Out: 8783.933+/-1.960  $\chi^2/\text{NDF}$ : 1097165.1/13

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

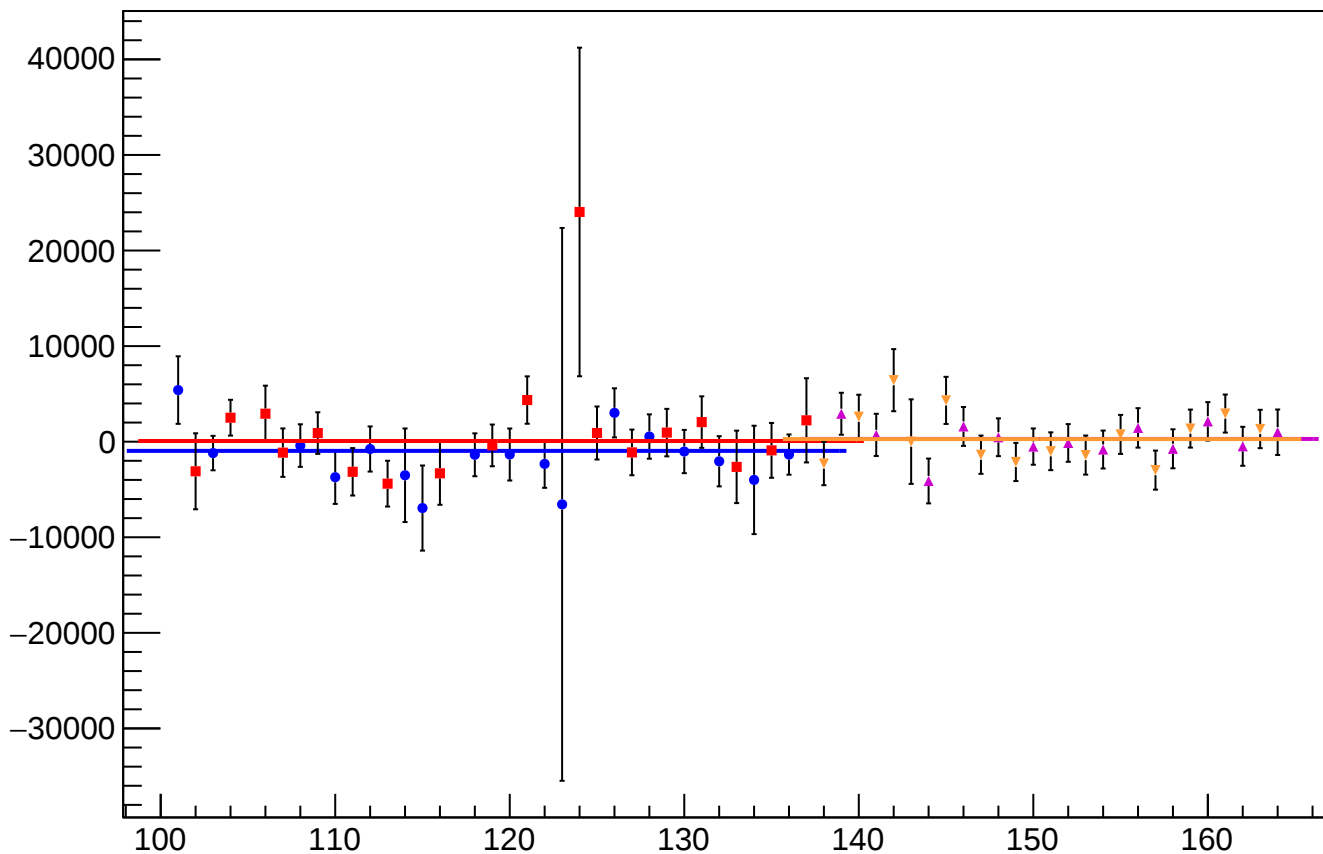
Left In: 9561.702+/-2.131  $\chi^2/\text{NDF}$ : 595962.8/12

+ sign 8179.642+/-1.430  $\chi^2/\text{NDF}$ : 1737288.3/30

All: 8230.054+/-1.018  $\chi^2/\text{NDF}$ : 3563279.3/63

- sign 8281.949+/-1.451  $\chi^2/\text{NDF}$ : 1823467.6/30

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



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

Left Out:  $272.157 \pm 584.959$   $\chi^2/\text{NDF}$ : 16.8/13

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

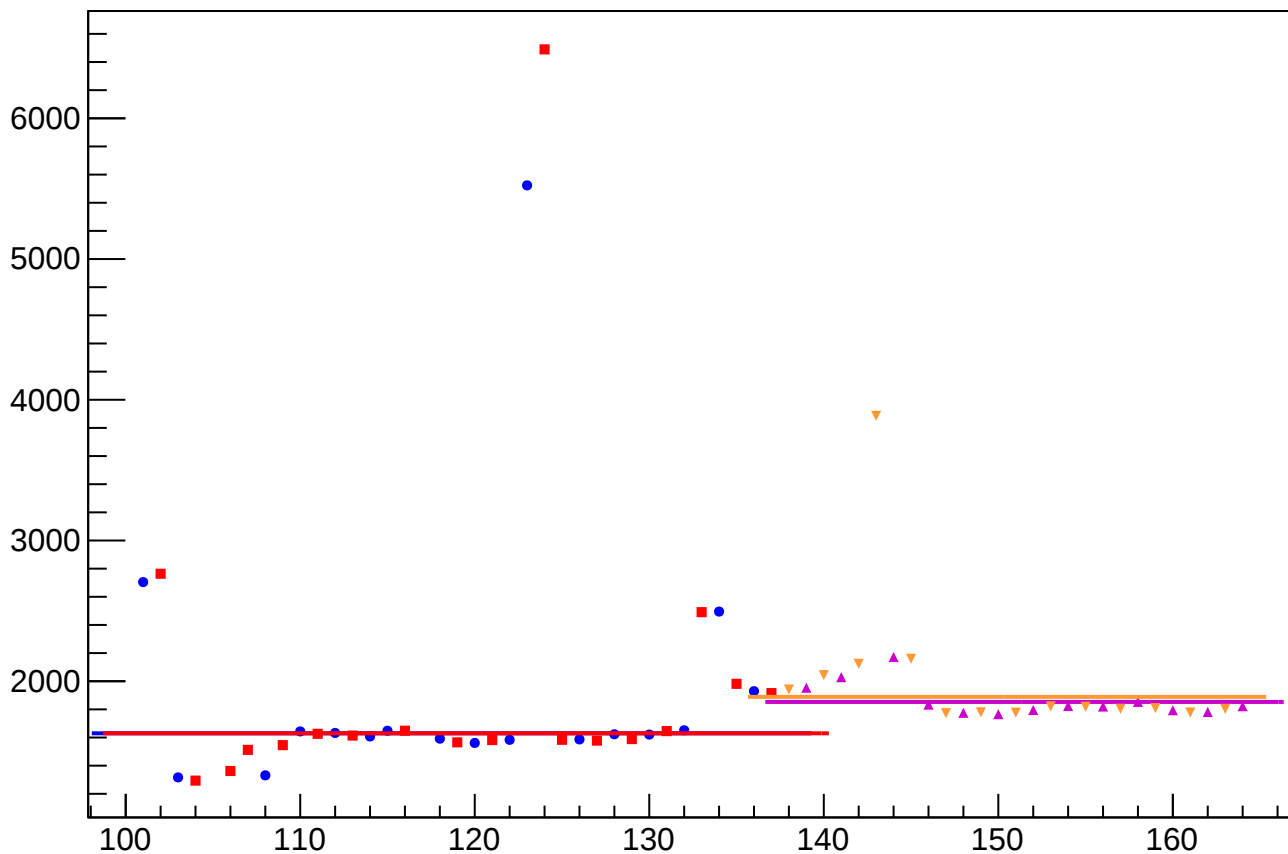
Left In:  $287.517 \pm 575.431$   $\chi^2/\text{NDF}$ : 7.6/12

+ sign  $-286.939 \pm 432.704$   $\chi^2/\text{NDF}$ : 28.9/30

All:  $-44.905 \pm 303.651$   $\chi^2/\text{NDF}$ : 53.8/61

- sign  $189.936 \pm 426.225$   $\chi^2/\text{NDF}$ : 24.4/30

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



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

Left Out: 1888.945 $\pm$ 0.414  $\chi^2$ /NDF: 492883.5/13

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

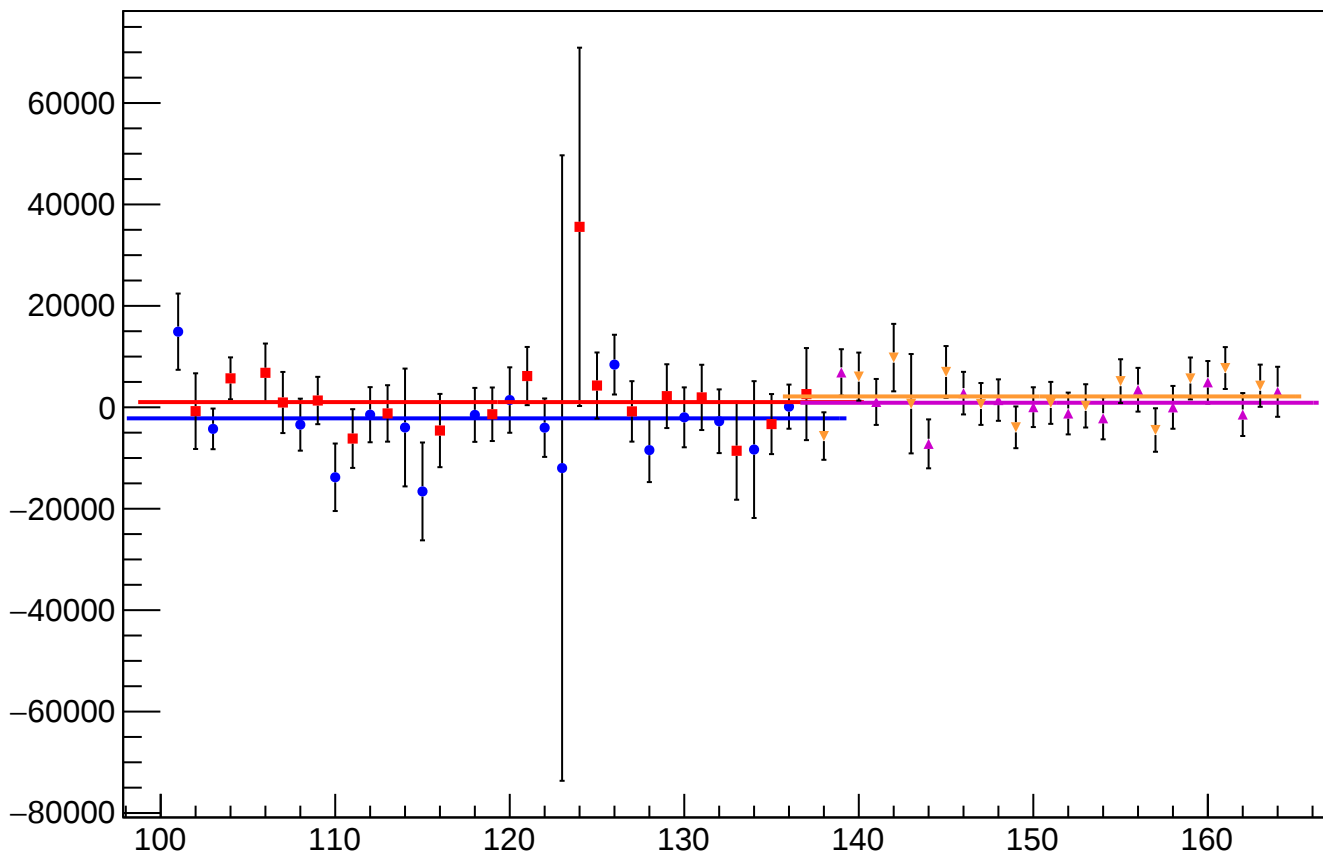
Left In: 1852.872 $\pm$ 0.407  $\chi^2$ /NDF: 68542.1/12

+ sign 1771.669 $\pm$ 0.306  $\chi^2$ /NDF: 1078566.4/30

All: 1761.813 $\pm$ 0.215  $\chi^2$ /NDF: 1842098.1/63

- sign 1752.251 $\pm$ 0.301  $\chi^2$ /NDF: 761487.6/30

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



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

Left Out:  $2142.035 \pm 1216.376$   $\chi^2/\text{NDF}$ : 14.0/13

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

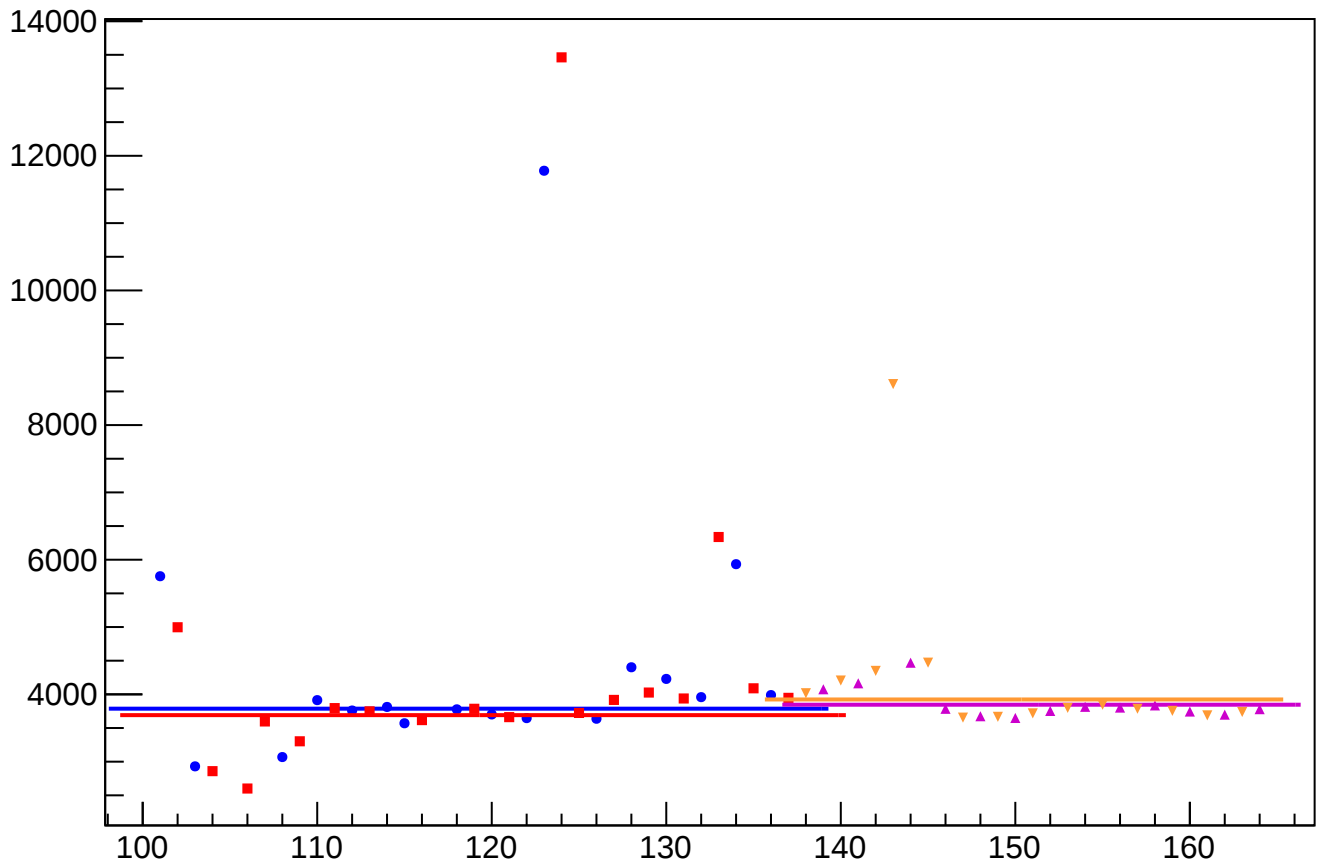
Left In:  $896.595 \pm 1194.255$   $\chi^2/\text{NDF}$ : 7.4/12

+ sign  $418.077 \pm 943.028$   $\chi^2/\text{NDF}$ : 35.0/30

All:  $690.464 \pm 658.477$   $\chi^2/\text{NDF}$ : 51.2/61

- sign  $949.632 \pm 919.859$   $\chi^2/\text{NDF}$ : 16.0/30

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



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

Left Out: 3924.044+/-0.860  $\chi^2/\text{NDF}$ : 535982.7/13

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

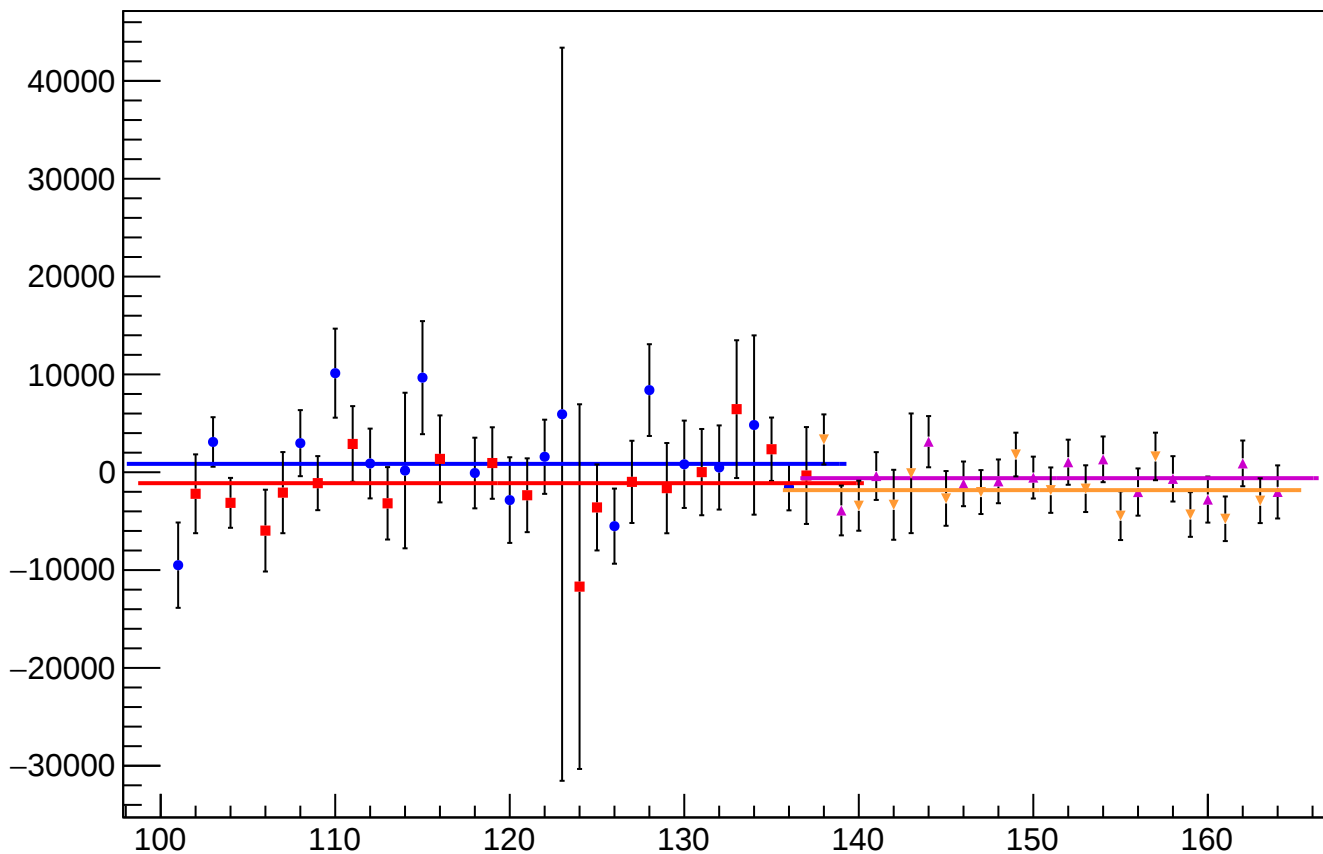
Left In: 3846.121+/-0.844  $\chi^2/\text{NDF}$ : 62541.4/12

+ sign 3869.491+/-0.667  $\chi^2/\text{NDF}$ : 938717.2/30

All: 3825.234+/-0.466  $\chi^2/\text{NDF}$ : 1578693.0/63

- sign 3783.126+/-0.650  $\chi^2/\text{NDF}$ : 631379.7/30

# asym\_at2\_dd\_mean vs Slug



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

Left Out:  $-1828.497 \pm 673.607$   $\chi^2/\text{NDF}$ : 13.7/13

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

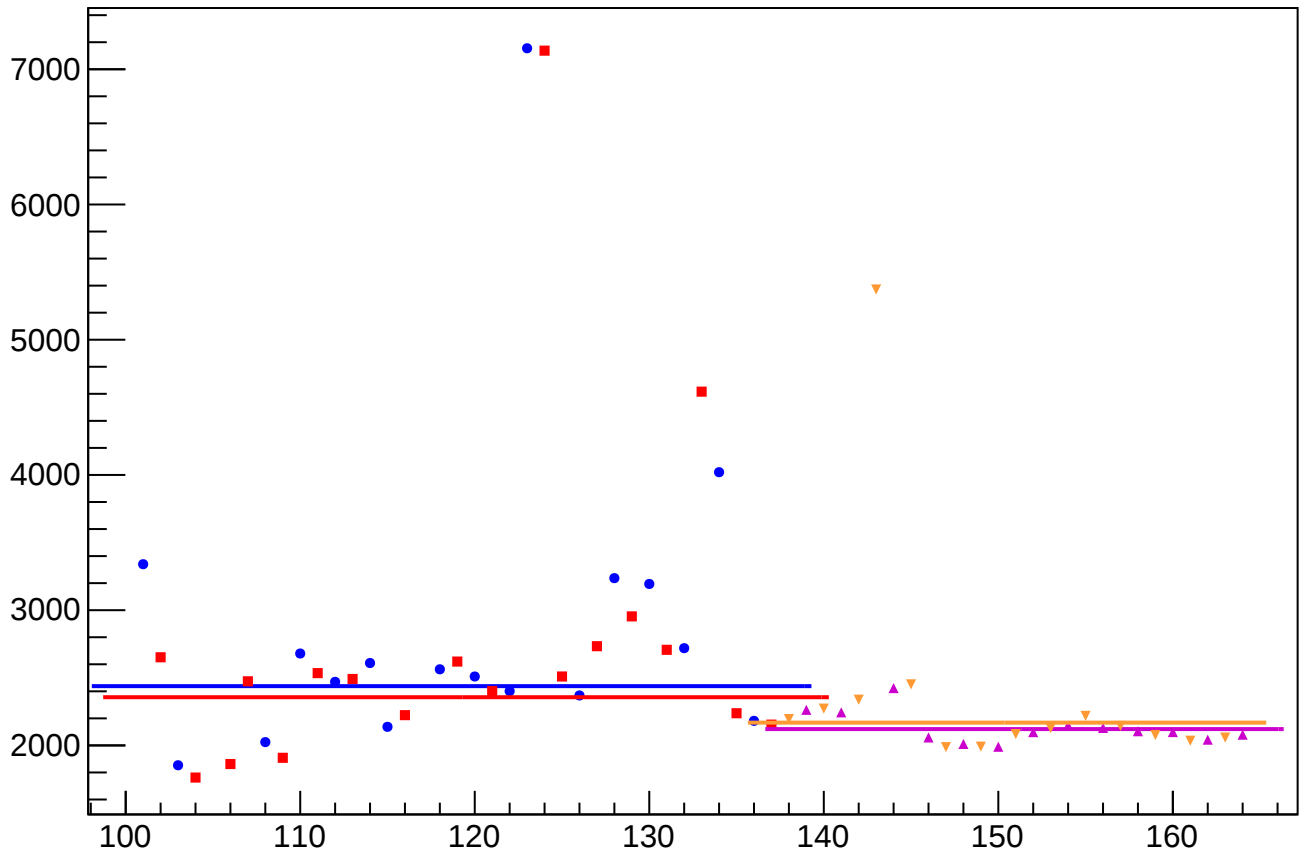
Left In:  $-605.176 \pm 658.418$   $\chi^2/\text{NDF}$ : 6.9/12

+ sign  $-948.623 \pm 552.301$   $\chi^2/\text{NDF}$ : 39.5/30

All:  $-860.342 \pm 384.950$   $\chi^2/\text{NDF}$ : 53.9/61

- sign  $-776.938 \pm 536.833$   $\chi^2/\text{NDF}$ : 14.3/30

# asym\_at2\_dd\_rms vs Slug



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

Left Out: 2168.598+/-0.476  $\chi^2/\text{NDF}$ : 621818.2/13

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

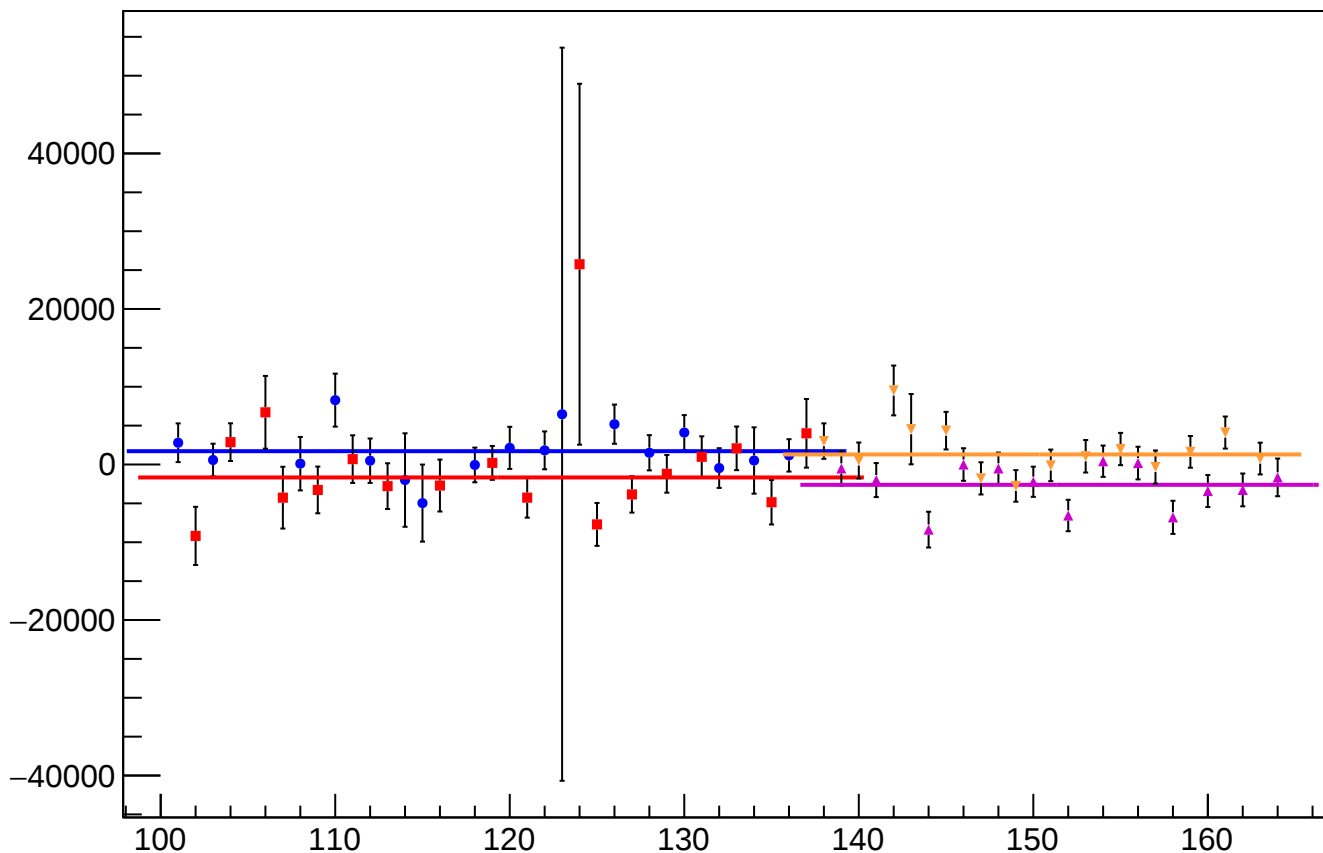
Left In: 2120.782+/-0.466  $\chi^2/\text{NDF}$ : 55428.6/12

+ sign 2256.982+/-0.391  $\chi^2/\text{NDF}$ : 1203600.4/30

All: 2227.563+/-0.272  $\chi^2/\text{NDF}$ : 1985059.1/63

- sign 2199.769+/-0.380  $\chi^2/\text{NDF}$ : 770423.0/30

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



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

Left Out: 1291.215 $\pm$ 596.295  $\chi^2/\text{NDF}$ : 18.7/13

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

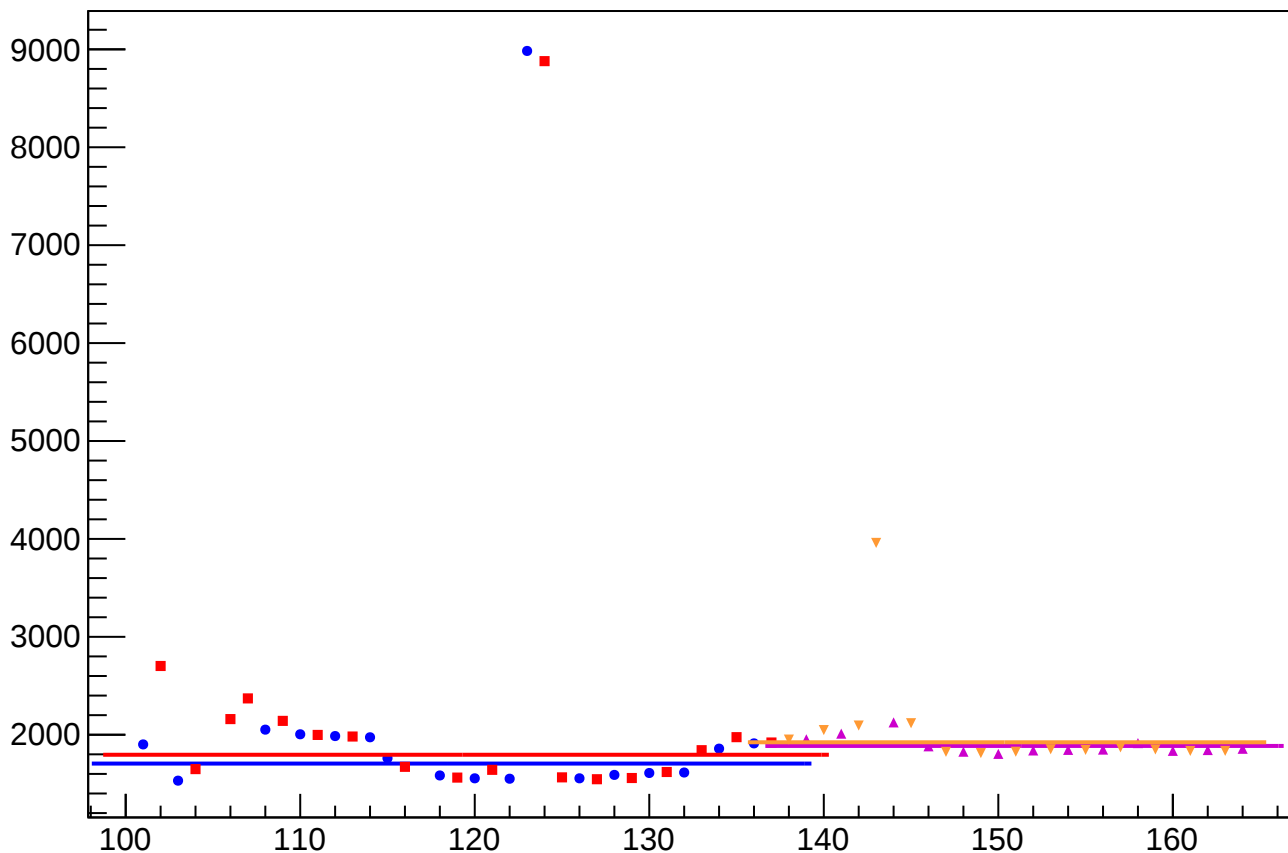
Left In: -2615.385 $\pm$ 586.614  $\chi^2/\text{NDF}$ : 22.0/12

+ sign 1478.335 $\pm$ 444.592  $\chi^2/\text{NDF}$ : 30.3/30

All: -355.094 $\pm$ 315.735  $\chi^2/\text{NDF}$ : 114.6/61

- sign -2220.614 $\pm$ 448.466  $\chi^2/\text{NDF}$ : 50.0/30

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



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

Left Out: 1923.059+/-0.422  $\chi^2/\text{NDF}$ : 462181.3/13

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

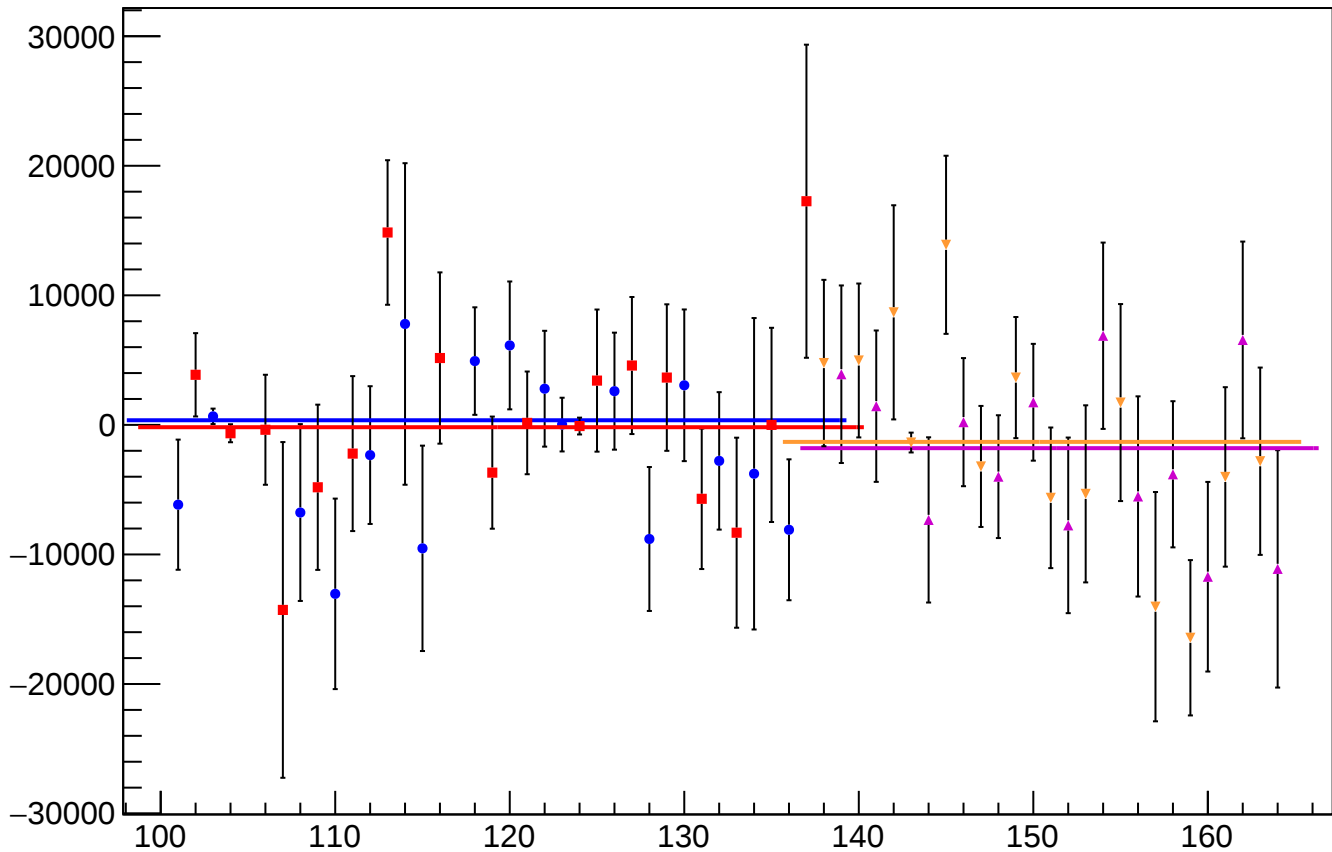
Left In: 1885.697+/-0.415  $\chi^2/\text{NDF}$ : 40588.3/12

+ sign 1826.497+/-0.314  $\chi^2/\text{NDF}$ : 774453.5/30

All: 1837.240+/-0.223  $\chi^2/\text{NDF}$ : 1355867.2/63

- sign 1848.151+/-0.317  $\chi^2/\text{NDF}$ : 579059.8/30

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



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

Left Out: -1311.948+/-700.659  $\chi^2/\text{NDF}$ :19.4/13

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

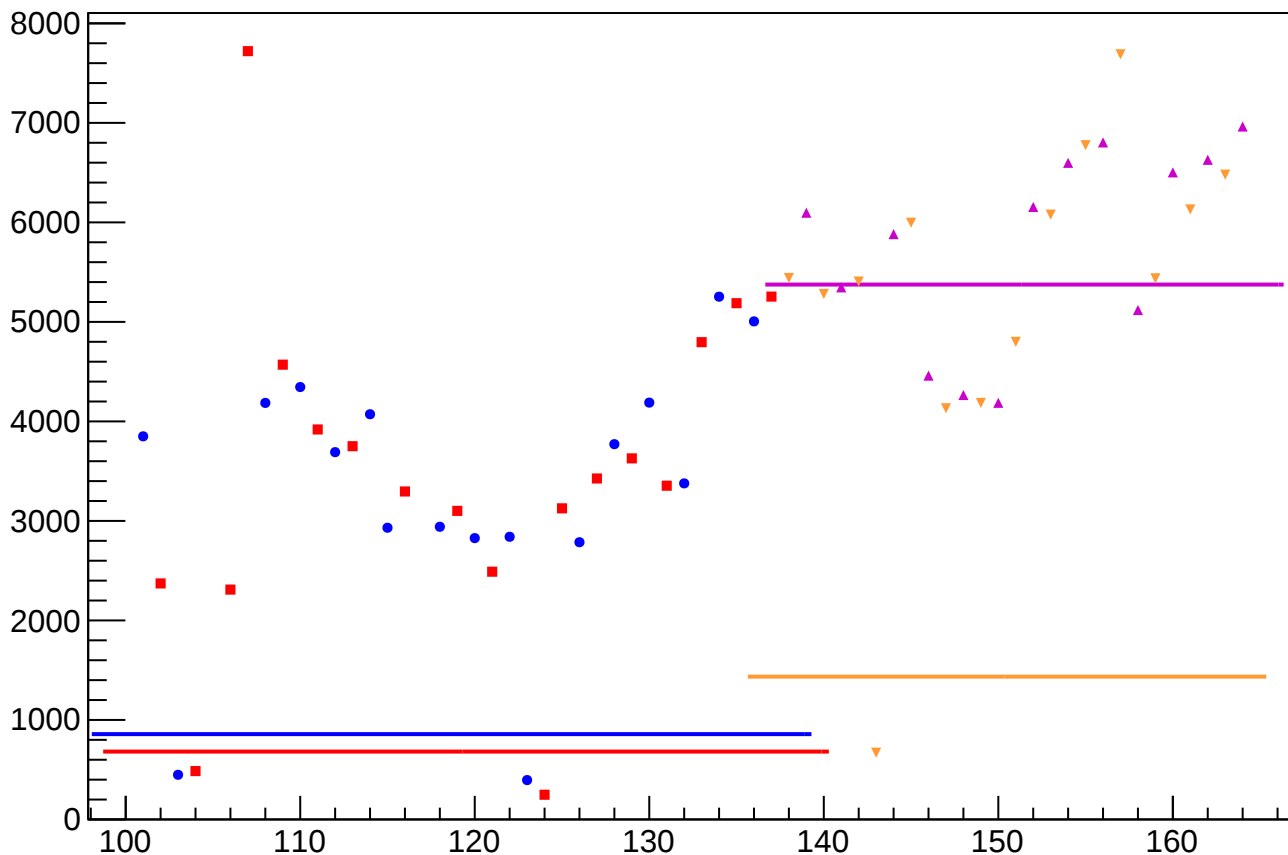
Left In: -1797.431+/-1697.528  $\chi^2/\text{NDF}$ :9.4/12

+ sign -255.060+/-424.314  $\chi^2/\text{NDF}$ : 40.5/30

All: -269.318+/-302.806  $\chi^2/\text{NDF}$ : 69.3/61

- sign -284.115+/-432.260  $\chi^2/\text{NDF}$ : 28.8/30

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



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

Left Out: 1435.230+/-0.495  $\chi^2/\text{NDF}$ :12768512.2/13

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

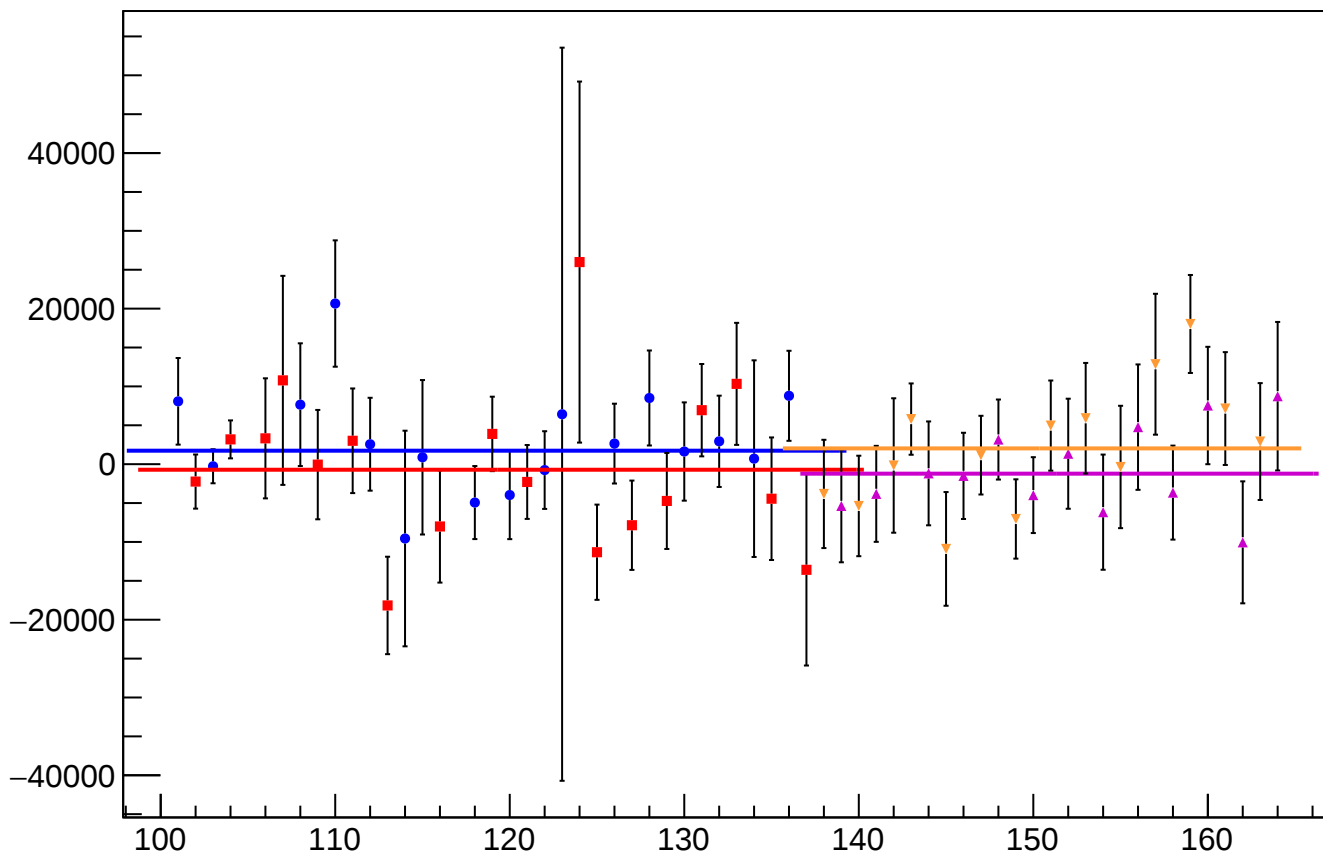
Left In: 5375.122+/-1.200  $\chi^2/\text{NDF}$ :670933.2/12

+ sign 1069.361+/-0.300  $\chi^2/\text{NDF}$ : 21804943.3/30

All: 1028.659+/-0.214  $\chi^2/\text{NDF}$ : 46186937.9/6

- sign 986.418+/-0.306  $\chi^2/\text{NDF}$ : 24344493.6/30

# asym\_atl\_avg\_mean vs Slug



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

Left Out: 2029.084+/-1710.890  $\chi^2/\text{NDF}$ : 18.1/13

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

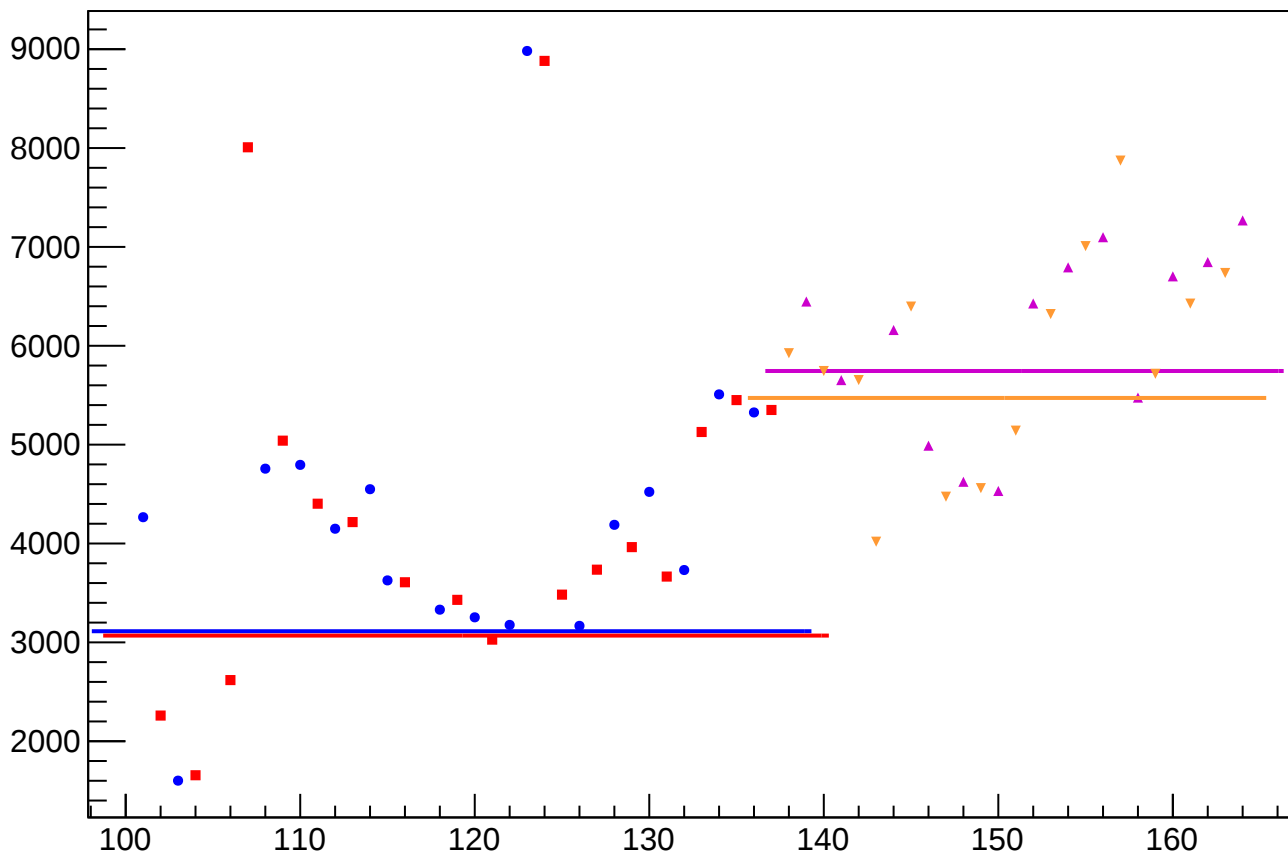
Left In: -1220.616+/-1808.284  $\chi^2/\text{NDF}$ : 6.5/12

+ sign 1842.034+/-1037.412  $\chi^2/\text{NDF}$ : 33.0/30

All: 495.176+/-738.159  $\chi^2/\text{NDF}$ : 68.2/61

- sign -885.985+/-1050.541  $\chi^2/\text{NDF}$ : 31.7/30

# asym\_atl\_avg\_rms vs Slug



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

Left Out: 5472.299+/-1.210     $\chi^2/\text{NDF}$ : 733930.3/13

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

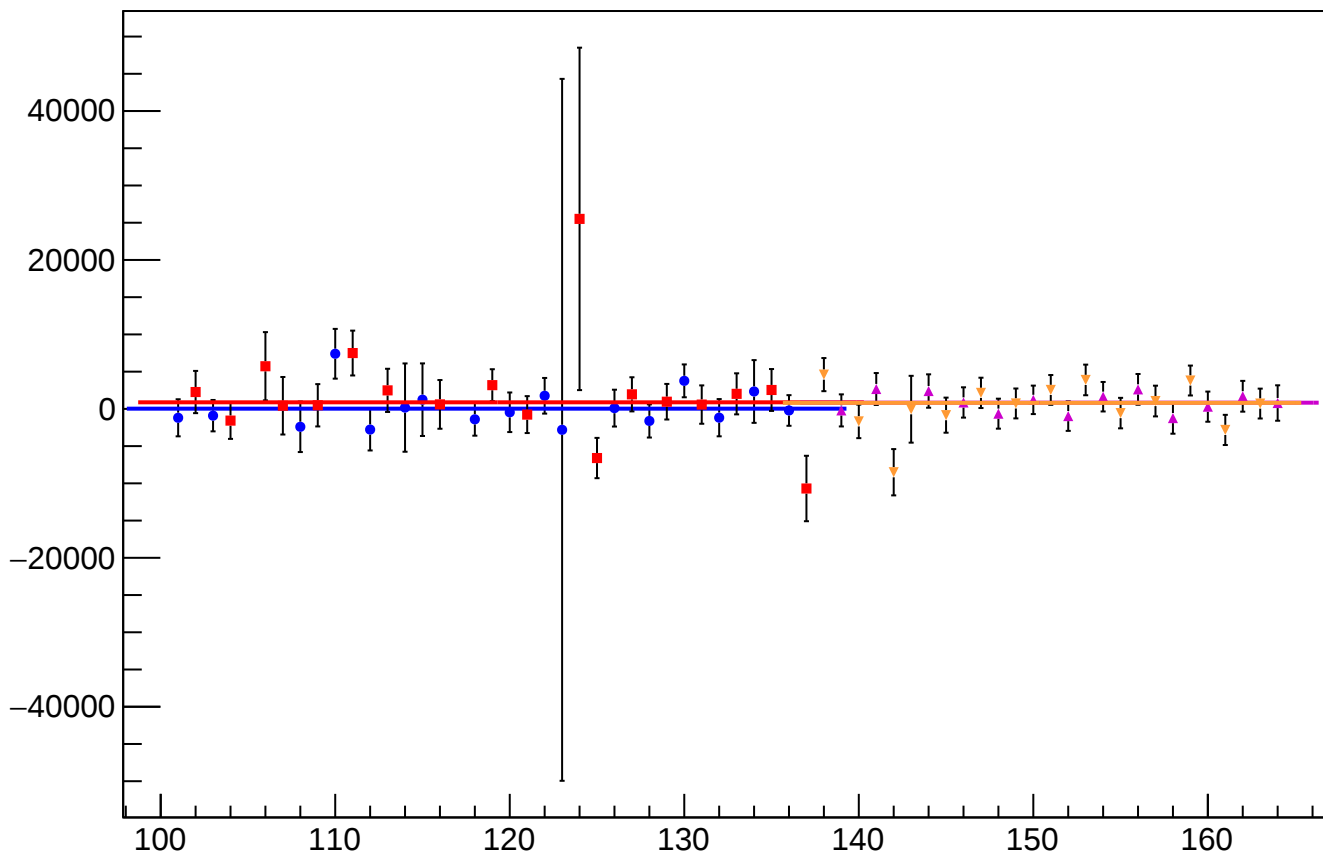
Left In: 5744.949+/-1.279     $\chi^2/\text{NDF}$ : 524265.8/12

+ sign 3980.240+/-0.734     $\chi^2/\text{NDF}$ : 5023981.8/30

All: 3967.376+/-0.519     $\chi^2/\text{NDF}$ : 10481460.5/60

- sign 3954.440+/-0.736     $\chi^2/\text{NDF}$ : 5456862.0/30

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



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

Left Out: 810.055+/-584.975  $\chi^2/\text{NDF}$ : 23.0/13

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

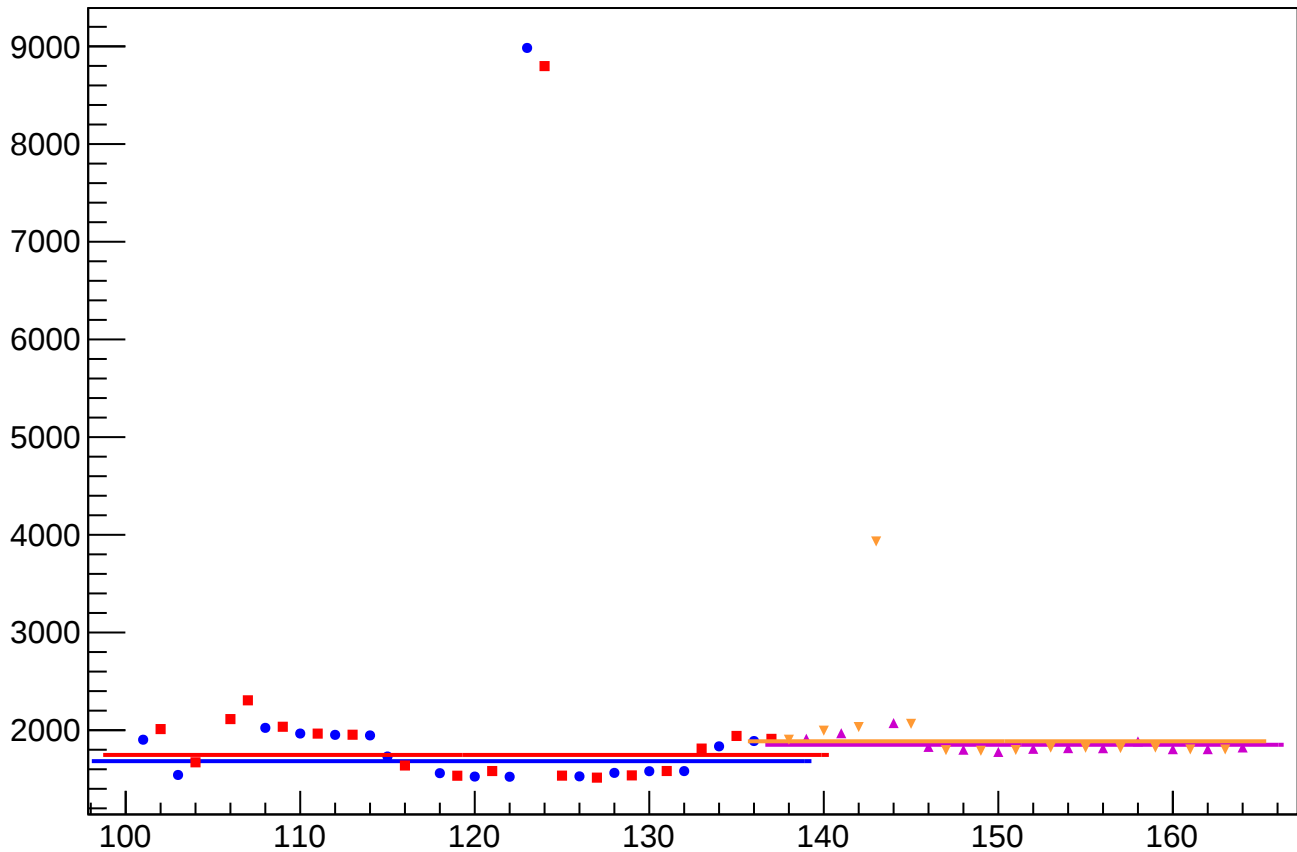
Left In: 832.119+/-575.637  $\chi^2/\text{NDF}$ : 5.0/12

+ sign 465.538+/-437.305  $\chi^2/\text{NDF}$ : 35.6/30

All: 659.220+/-309.429  $\chi^2/\text{NDF}$ : 66.6/61

- sign 853.424+/-437.893  $\chi^2/\text{NDF}$ : 30.6/30

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



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

Left Out: 1886.539+/-0.414  $\chi^2/\text{NDF}$ : 464265.1/13

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

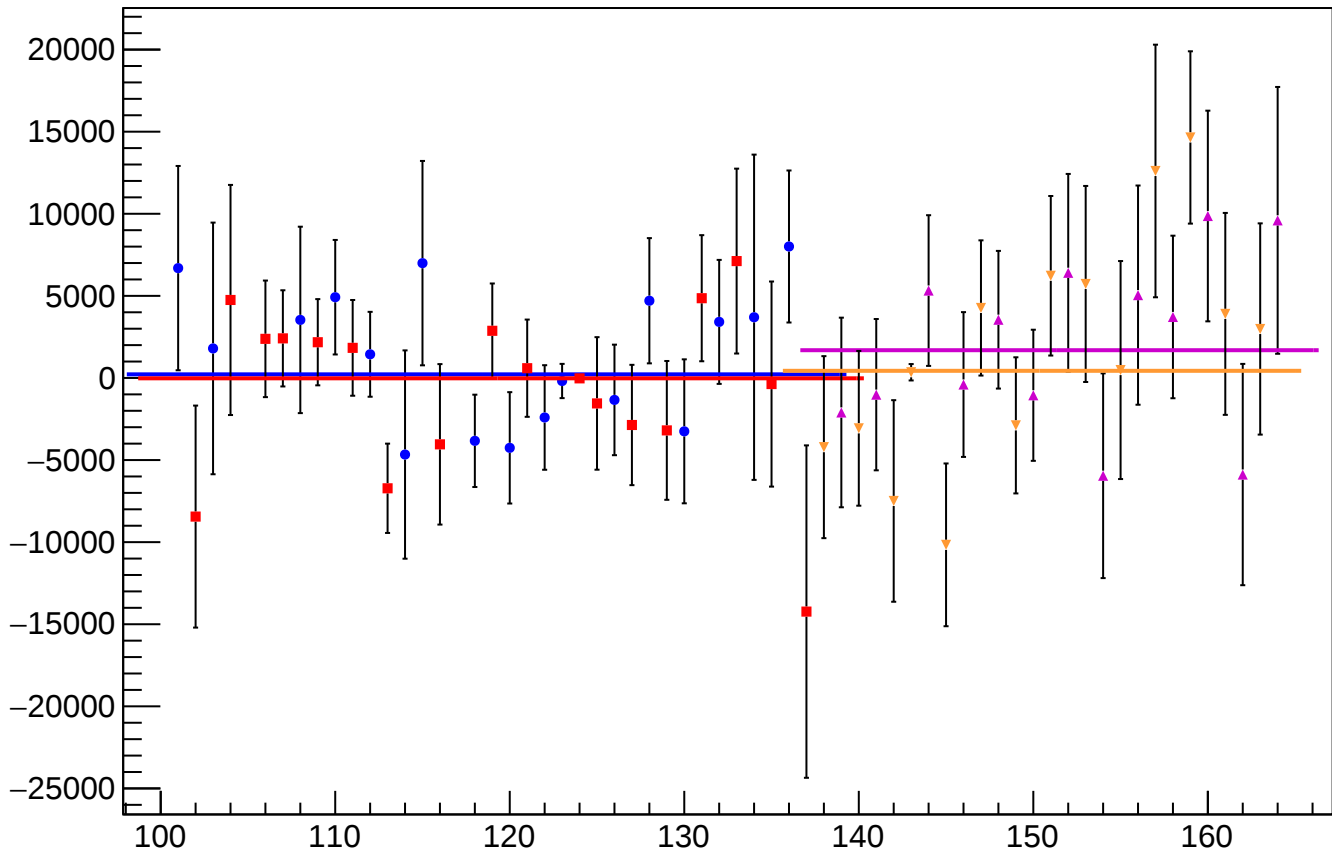
Left In: 1850.737+/-0.407  $\chi^2/\text{NDF}$ : 36595.2/12

+ sign 1796.802+/-0.309  $\chi^2/\text{NDF}$ : 766807.9/30

All: 1801.817+/-0.219  $\chi^2/\text{NDF}$ : 1238194.1/63

- sign 1806.835+/-0.309  $\chi^2/\text{NDF}$ : 470860.0/30

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



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

Left Out: 435.217 $\pm$ 472.962  $\chi^2$ /NDF: 21.6/13

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

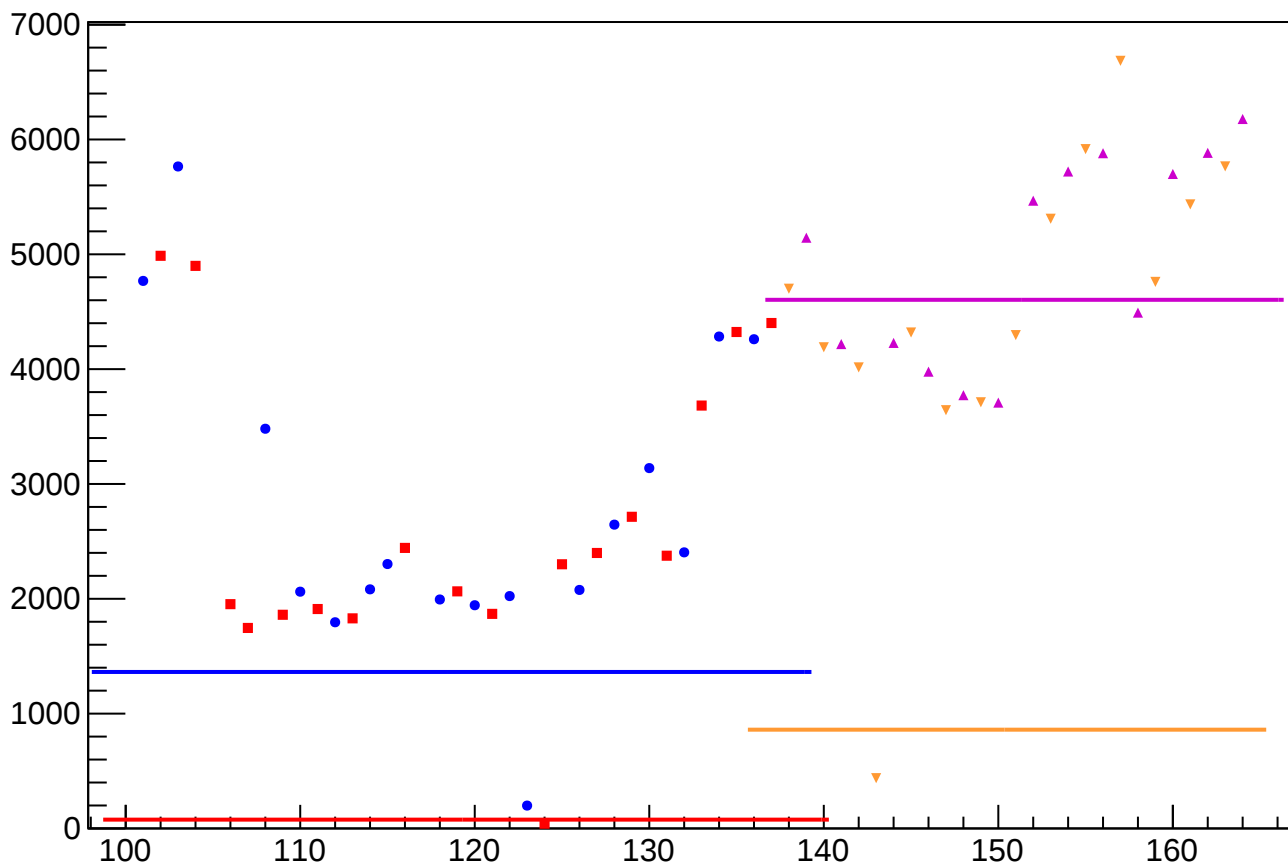
Left In: 1690.340 $\pm$ 1453.074  $\chi^2$ /NDF: 8.7/12

+ sign 370.401 $\pm$ 395.454  $\chi^2$ /NDF: 37.4/30

All: 17.751 $\pm$ 109.348  $\chi^2$ /NDF: 66.9/61

- sign -11.445 $\pm$ 113.785  $\chi^2$ /NDF: 28.6/30

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



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

Left Out: 860.242 $\pm$ 0.334  $\chi^2$ /NDF: 14543082.5/13

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

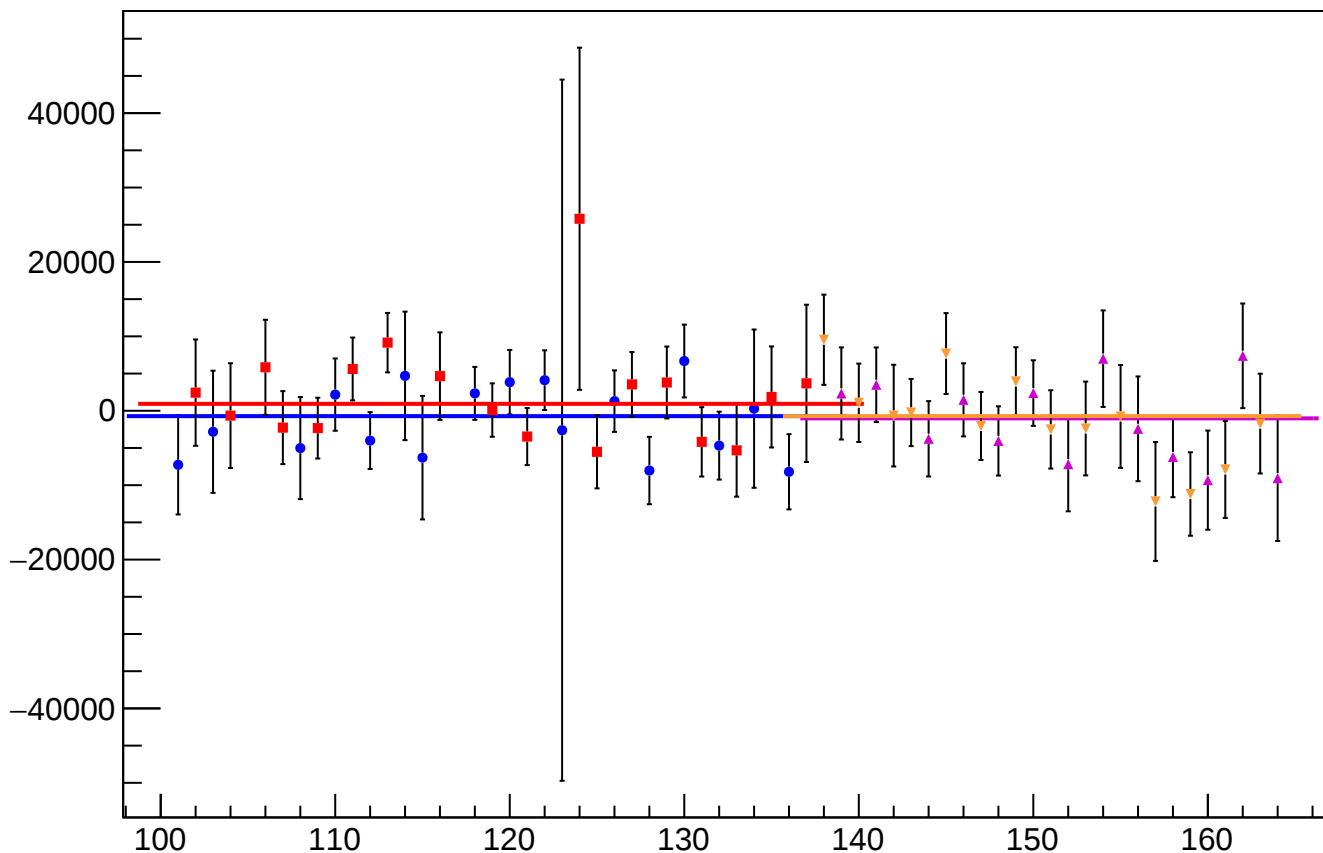
Left In: 4603.742 $\pm$ 1.027  $\chi^2$ /NDF: 649307.2/12

+ sign 1011.474 $\pm$ 0.280  $\chi^2$ /NDF: 21458517.3/30

All: 173.931 $\pm$ 0.077  $\chi^2$ /NDF: 64228623.3/6

- sign 104.590 $\pm$ 0.080  $\chi^2$ /NDF: 33056111.3/30

# asym\_atl\_dd\_mean vs Slug



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

Left Out:  $-720.252 \pm 1510.627$   $\chi^2/\text{NDF}$ : 13.5/13

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

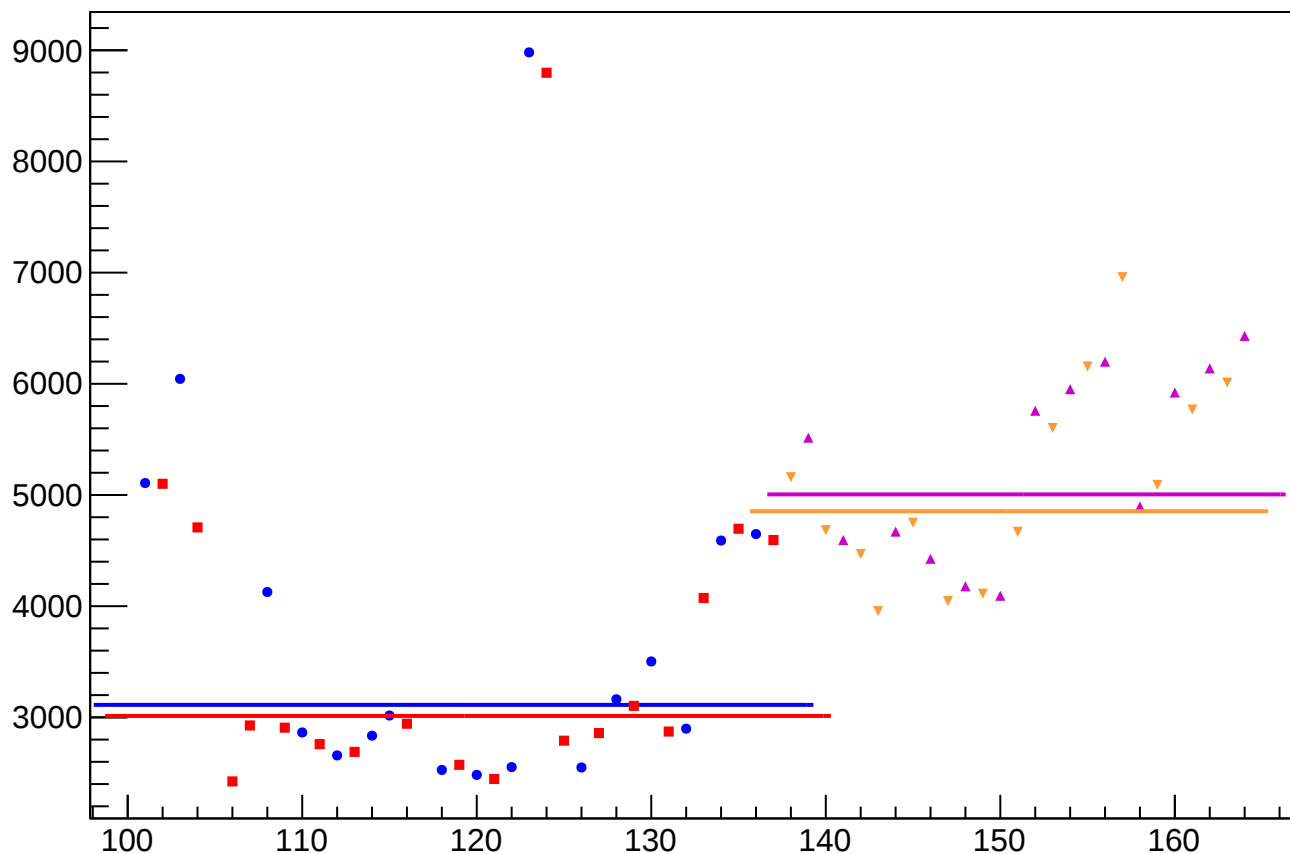
Left In:  $-1019.882 \pm 1573.516$   $\chi^2/\text{NDF}$ : 10.0/12

+ sign  $-720.982 \pm 964.198$   $\chi^2/\text{NDF}$ : 28.2/30

All:  $-245.086 \pm 677.219$   $\chi^2/\text{NDF}$ : 54.6/61

- sign  $218.255 \pm 951.394$   $\chi^2/\text{NDF}$ : 25.9/30

# asym\_atl\_dd\_rms vs Slug



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

Left Out:  $4853.695 \pm 1.068$   $\chi^2/\text{NDF}: 551144.0/13$

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

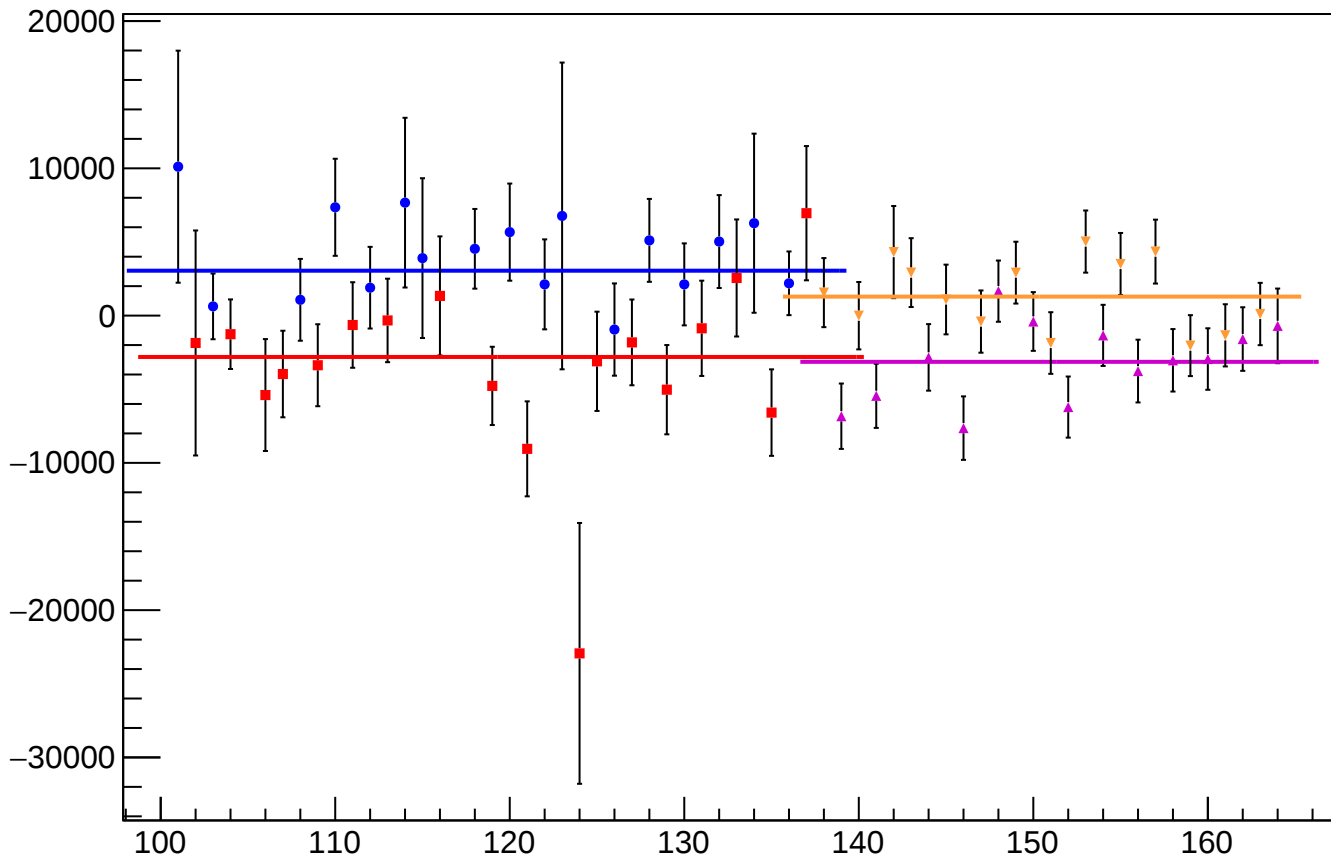
Left In:  $5005.415 \pm 1.113$   $\chi^2/\text{NDF}: 488072.8/12$

+ sign  $3821.695 \pm 0.682$   $\chi^2/\text{NDF}: 3084746.8/30$

All:  $3774.673 \pm 0.477$   $\chi^2/\text{NDF}: 6409917.0/63$

- sign  $3729.622 \pm 0.667$   $\chi^2/\text{NDF}: 3315856.4/30$

dit\_asym\_atr\_avg\_mean vs Slug



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

Left Out: 1289.163+/-591.350  $\chi^2/\text{NDF}$ :16.0/13

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

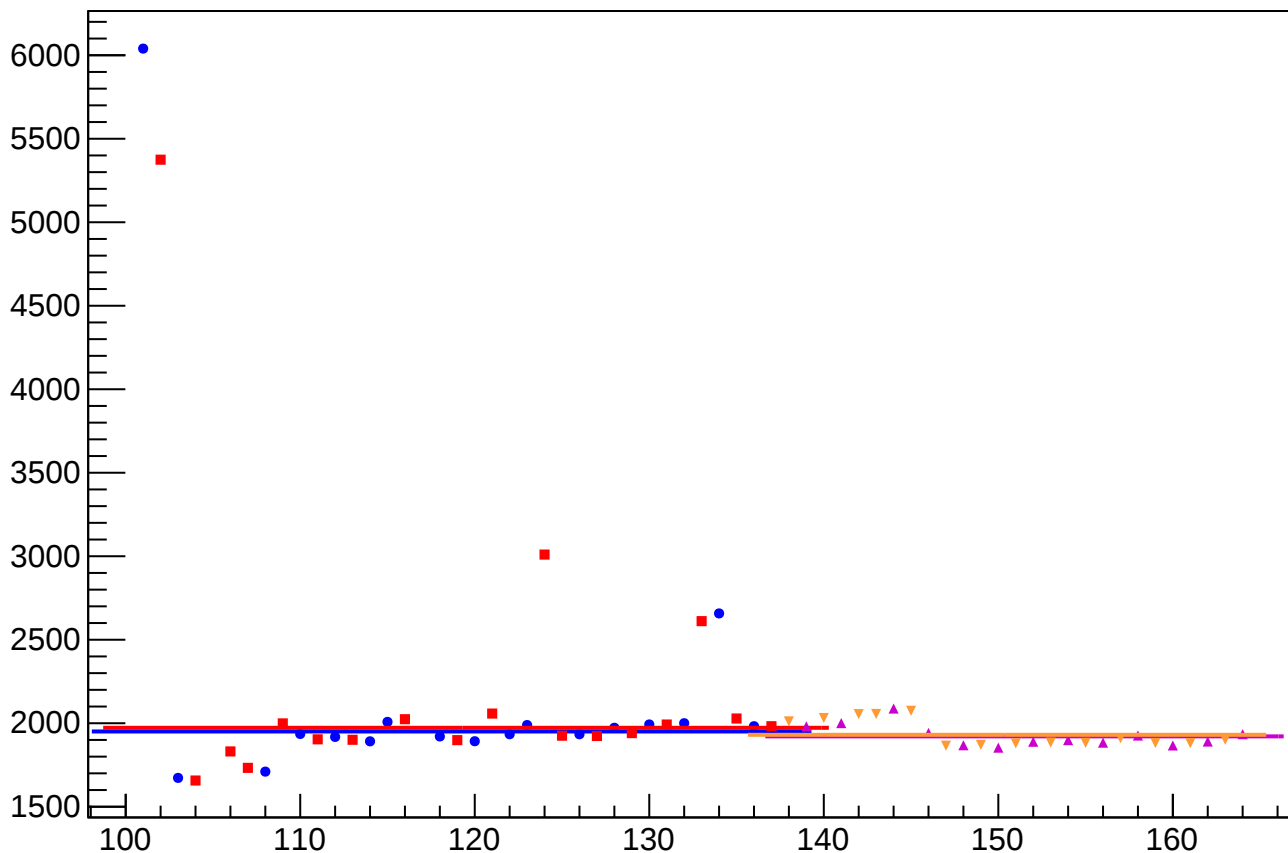
Left In: -3139.664+/-596.049  $\chi^2/\text{NDF}$ :20.0/12

+ sign 1939.609+/-469.523  $\chi^2/\text{NDF}$ : 28.5/30

All: -532.773+/-332.334  $\chi^2/\text{NDF}$ : 126.2/61

- sign -3015.046+/-470.461  $\chi^2/\text{NDF}$ : 42.1/30

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



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

Left Out: 1930.766 $\pm$ 0.418  $\chi^2$ /NDF: 32030.2/13

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

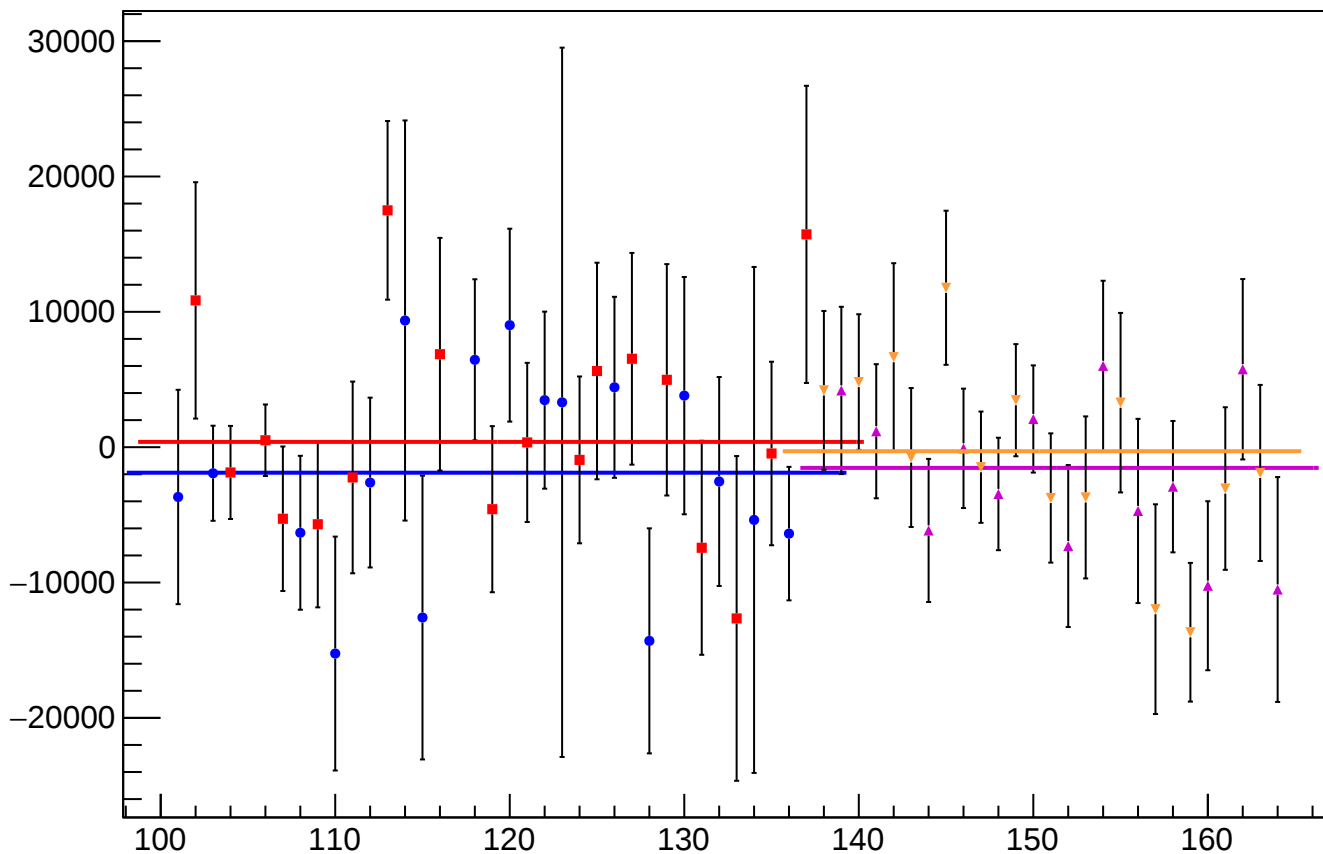
Left In: 1921.323 $\pm$ 0.421  $\chi^2$ /NDF: 21978.5/12

+ sign 1938.130 $\pm$ 0.332  $\chi^2$ /NDF: 648034.7/30

All: 1939.421 $\pm$ 0.235  $\chi^2$ /NDF: 1211325.6/63

- sign 1940.717 $\pm$ 0.333  $\chi^2$ /NDF: 563260.5/30

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



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

Left Out:  $-298.496 \pm 1448.608$   $\chi^2/\text{NDF}: 18.5/13$

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

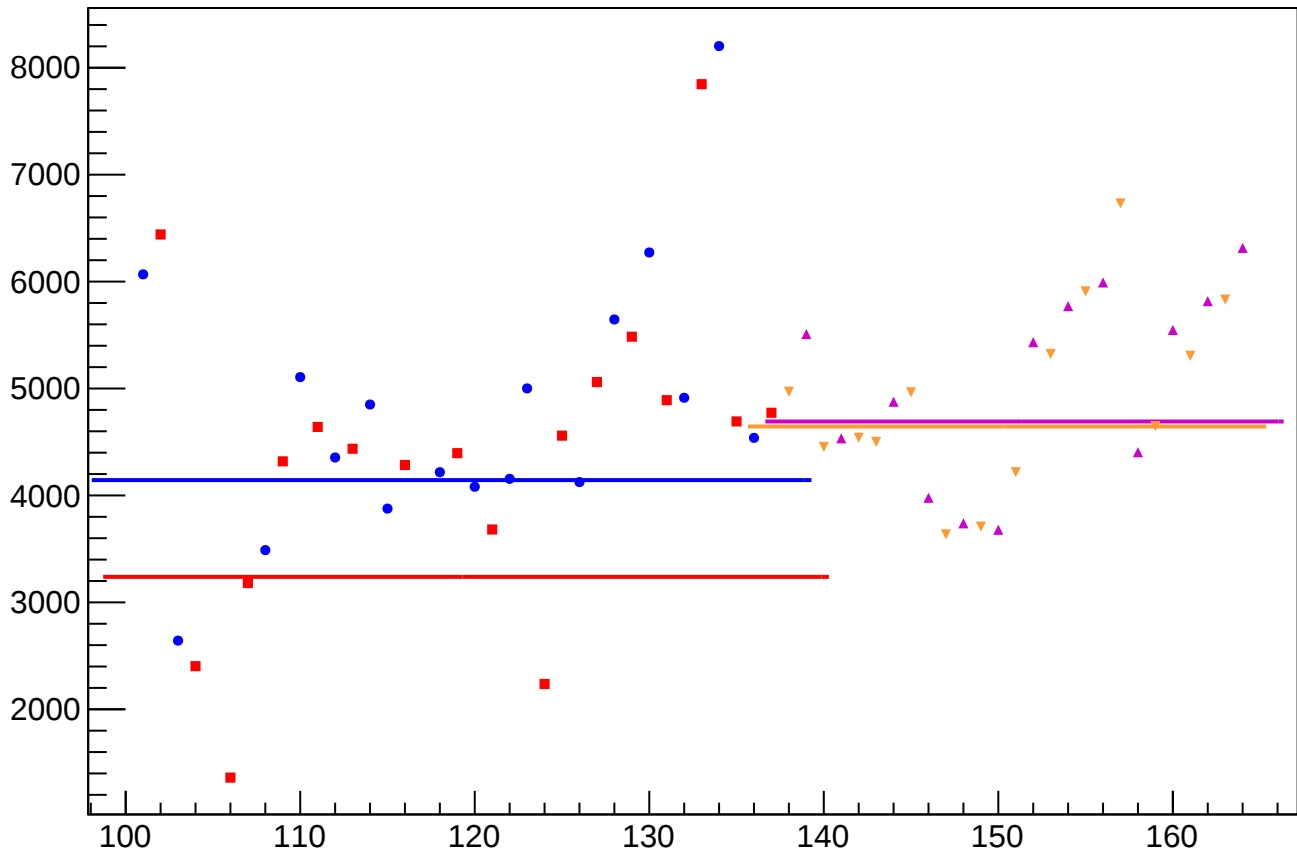
Left In:  $-1529.917 \pm 1481.437$   $\chi^2/\text{NDF}: 10.1/12$

+ sign  $-985.431 \pm 1090.881$   $\chi^2/\text{NDF}: 33.2/30$

All:  $-716.000 \pm 738.154$   $\chi^2/\text{NDF}: 61.8/61$

- sign  $-488.448 \pm 1002.523$   $\chi^2/\text{NDF}: 28.5/30$

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



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

Left Out: 4644.704+/-1.024  $\chi^2/\text{NDF}$ : 590259.7/13

+ sign 4427.719+/-0.771  $\chi^2/\text{NDF}$ : 1549887.7/30

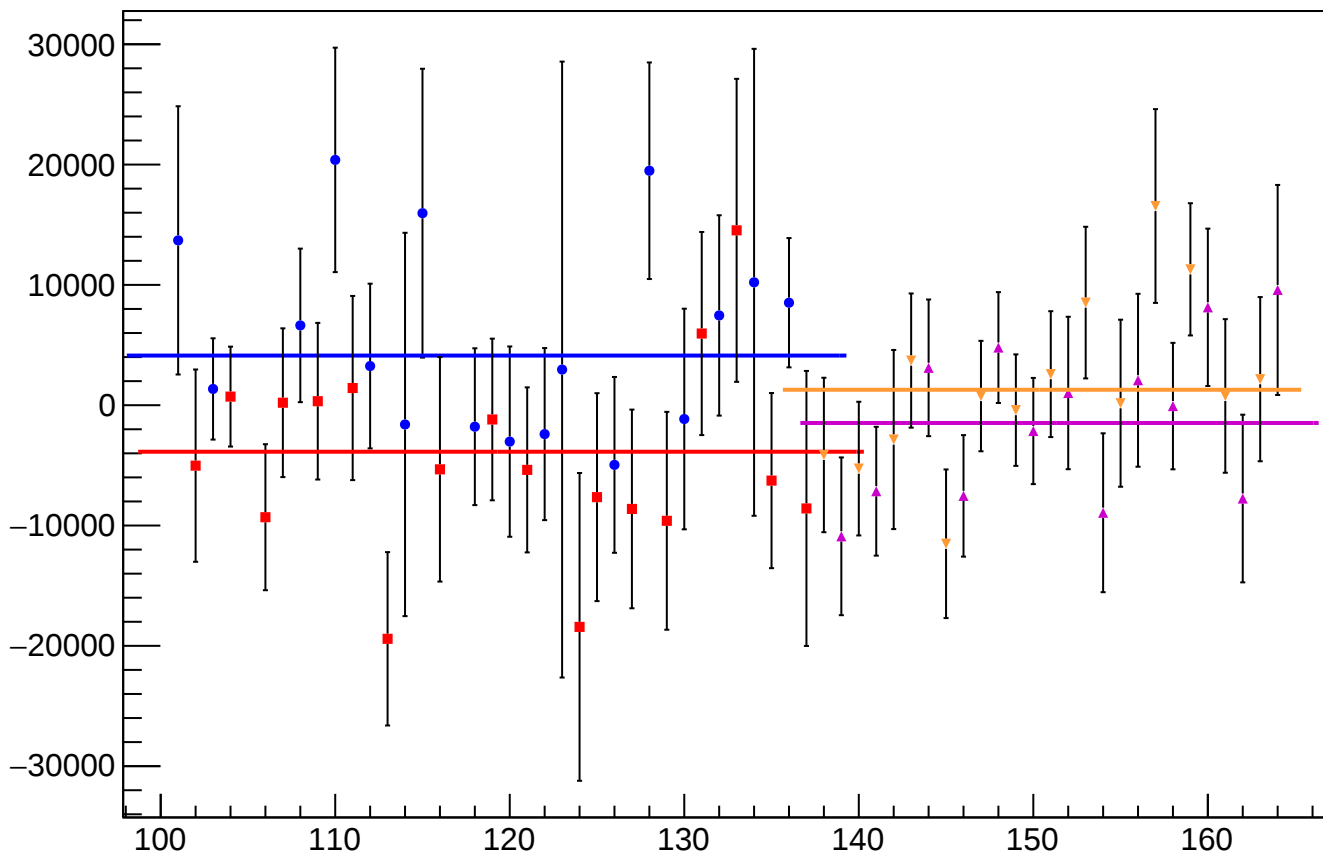
Right Out: 3238.590+/-0.963  $\chi^2/\text{NDF}$ : 2581960.1/17

All: 4143.794+/-0.522  $\chi^2/\text{NDF}$ : 6092902.3/63

- sign 3904.000+/-0.709  $\chi^2/\text{NDF}$ : 4293108.4/30

Left In: 4691.594+/-1.048  $\chi^2/\text{NDF}$ : 668272.8/12

# asym\_atr\_avg\_mean vs Slug



Right In: 4126.632+/-1863.062  $\chi^2/\text{NDF}$ : 13.7/16

Left Out: 1284.853+/-1572.862  $\chi^2/\text{NDF}$ : 15.4/13

Right Out: -3866.479+/-1727.484  $\chi^2/\text{NDF}$ : 14.3/17

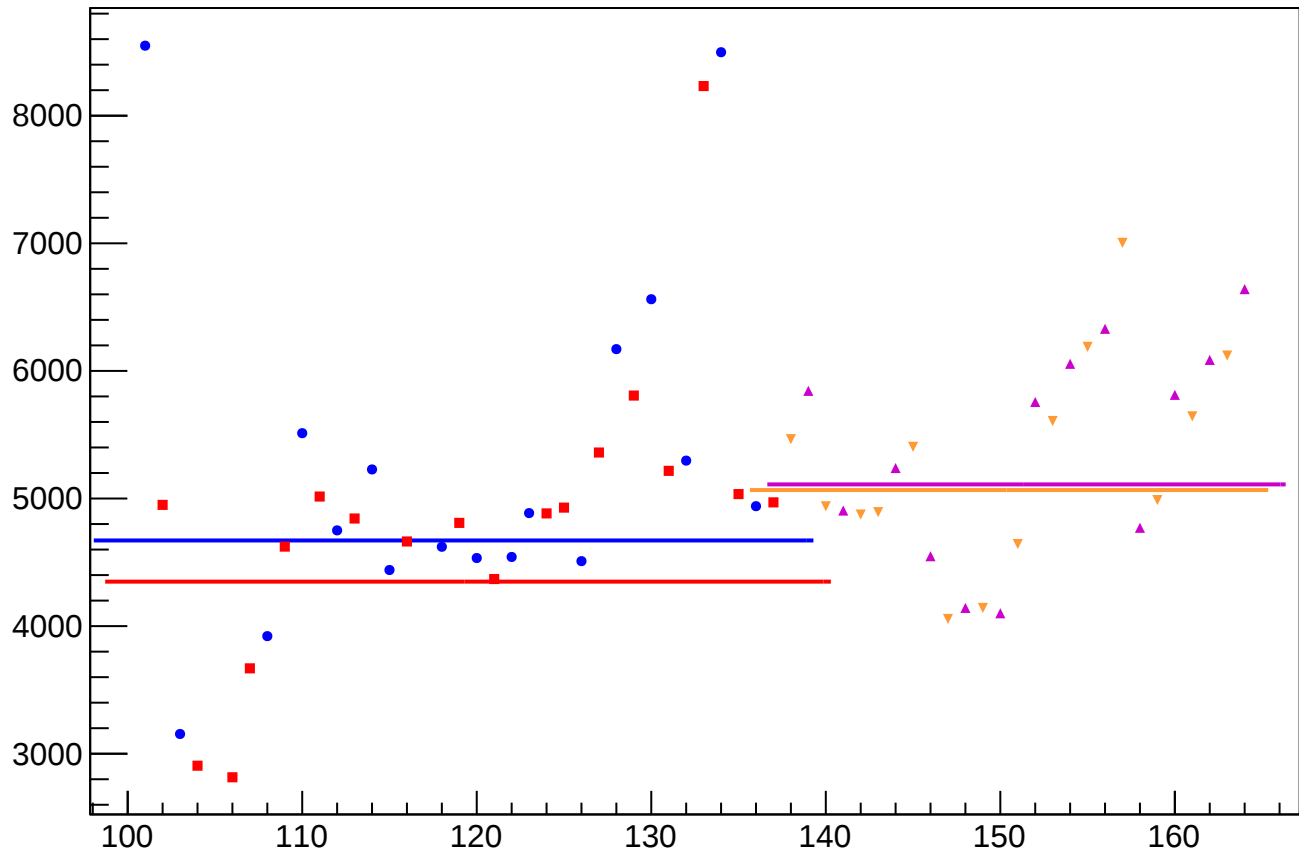
Left In: -1476.806+/-1606.703  $\chi^2/\text{NDF}$ : 13.5/12

+ sign 2467.424+/-1201.838  $\chi^2/\text{NDF}$ : 30.4/30

All: -112.717+/-840.724  $\chi^2/\text{NDF}$ : 68.2/61

- sign -2585.190+/-1176.494  $\chi^2/\text{NDF}$ : 28.8/30

# asym\_atr\_avg\_rms vs Slug



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

Left Out:  $5066.227 \pm 1.112$   $\chi^2/\text{NDF}$ : 454827.1/13

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

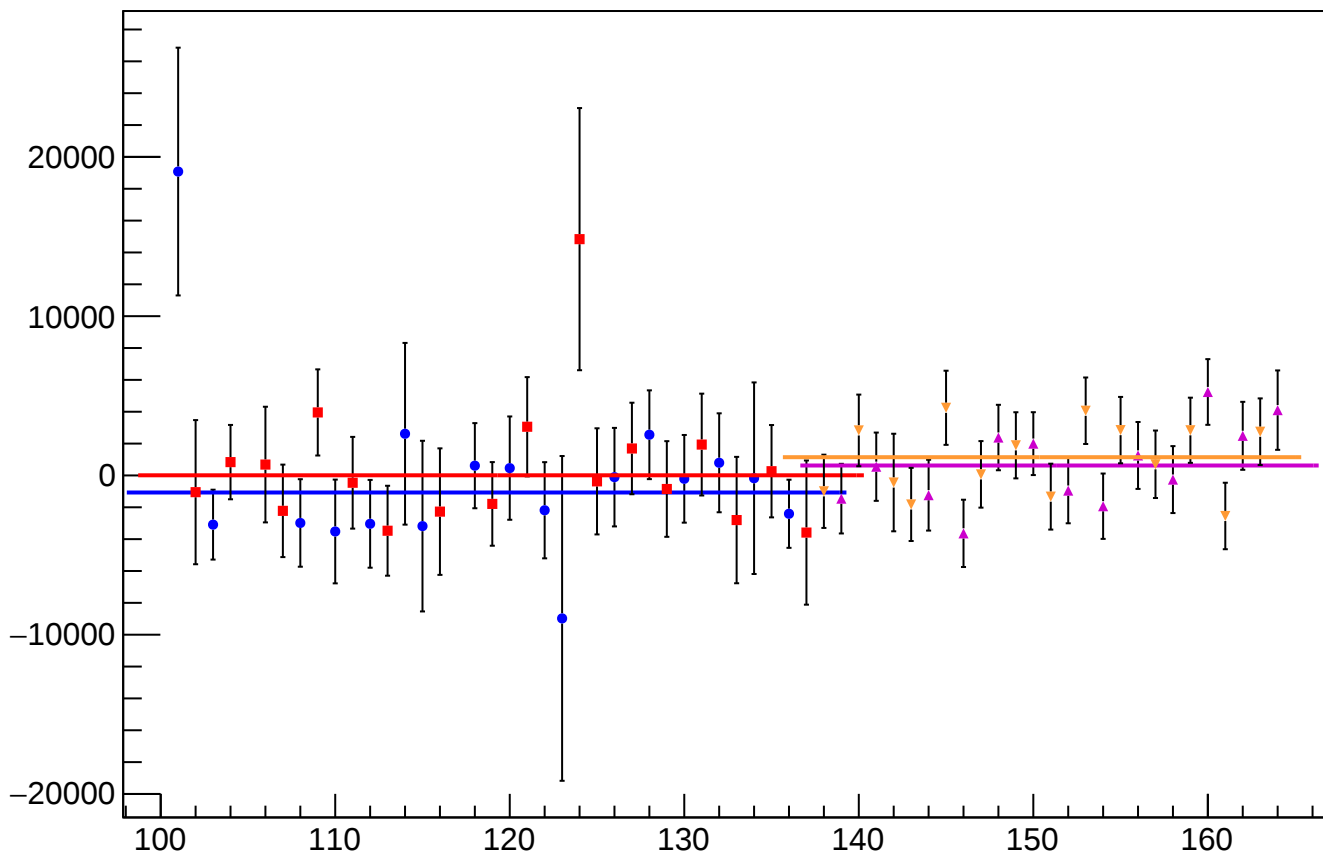
Left In:  $5110.630 \pm 1.136$   $\chi^2/\text{NDF}$ : 498325.9/12

+ sign  $4901.891 \pm 0.850$   $\chi^2/\text{NDF}$ : 1293405.0/30

All:  $4826.701 \pm 0.594$   $\chi^2/\text{NDF}$ : 2809348.4/63

- sign  $4755.036 \pm 0.830$   $\chi^2/\text{NDF}$ : 1500654.1/30

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



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

Left Out:  $1145.272 \pm 583.018$   $\chi^2/\text{NDF}$ : 14.0/13

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

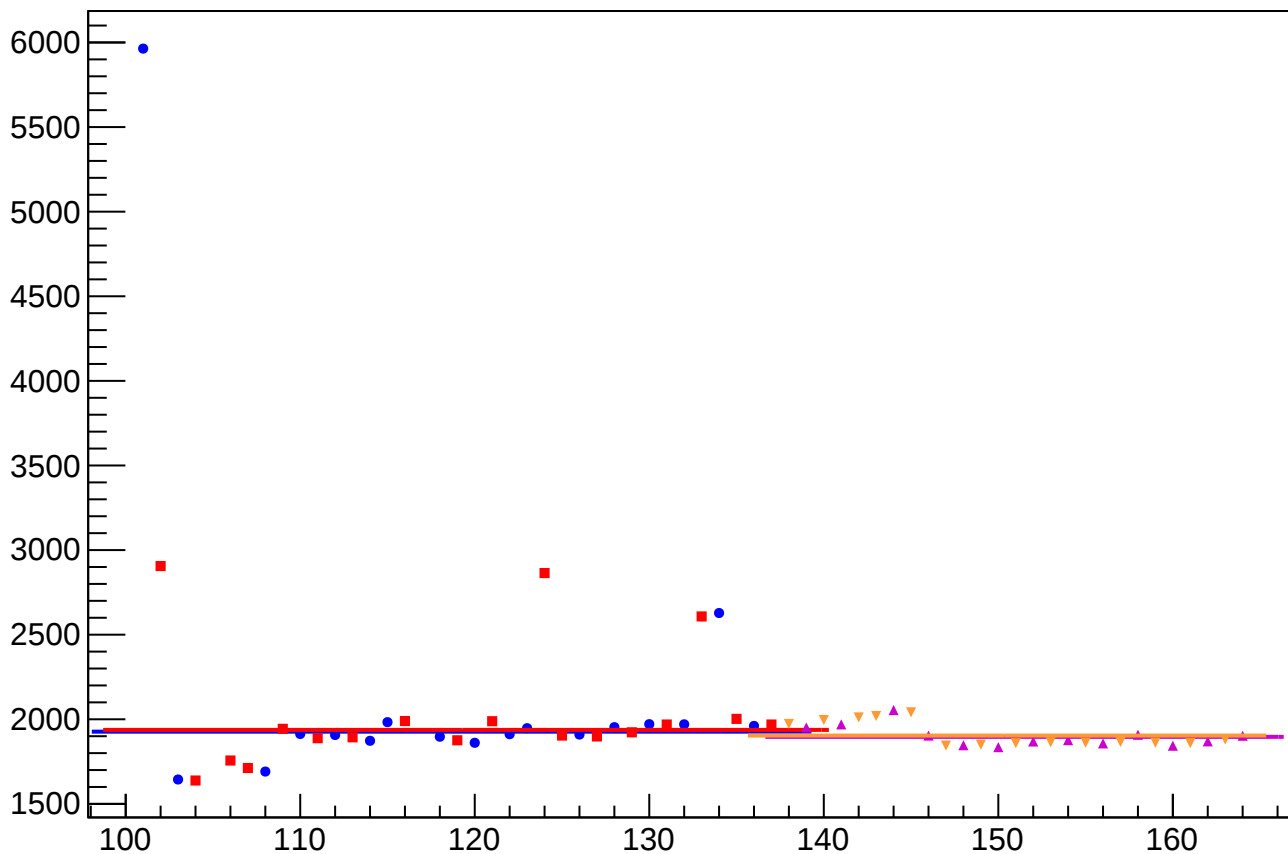
Left In:  $623.858 \pm 588.200$   $\chi^2/\text{NDF}$ : 17.0/12

+ sign  $328.145 \pm 463.251$   $\chi^2/\text{NDF}$ : 33.1/30

All:  $358.593 \pm 327.262$   $\chi^2/\text{NDF}$ : 61.9/61

- sign  $388.927 \pm 462.388$   $\chi^2/\text{NDF}$ : 28.9/30

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



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

Left Out: 1903.823 $\pm$ 0.412  $\chi^2$ /NDF: 27731.7/13

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

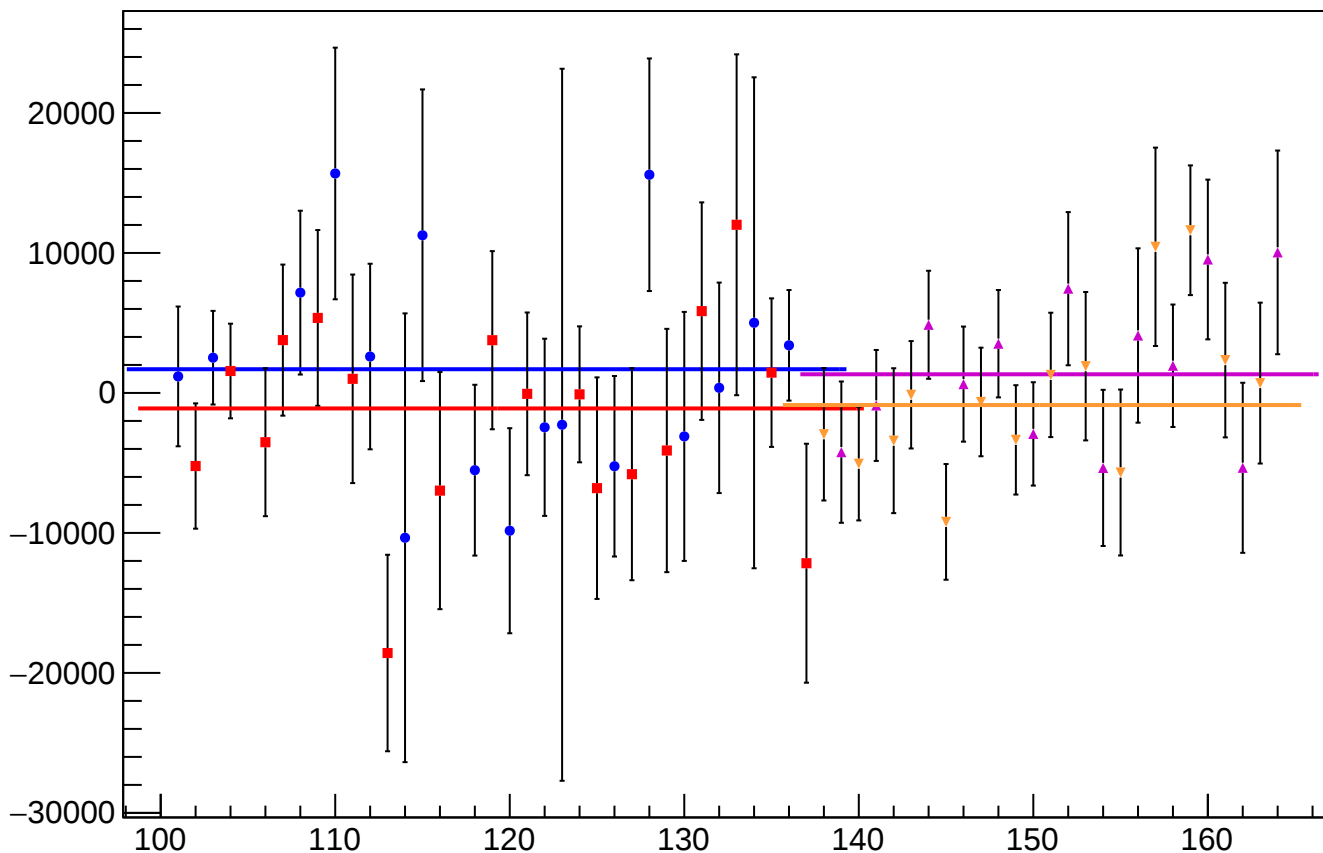
Left In: 1896.195 $\pm$ 0.416  $\chi^2$ /NDF: 19800.8/12

+ sign 1912.327 $\pm$ 0.328  $\chi^2$ /NDF: 646002.1/30

All: 1912.116 $\pm$ 0.231  $\chi^2$ /NDF: 898614.4/61

- sign 1911.906 $\pm$ 0.327  $\chi^2$ /NDF: 252611.4/30

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



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

Left Out: -865.204+/-1244.474  $\chi^2/\text{NDF}$ : 17.4/13

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

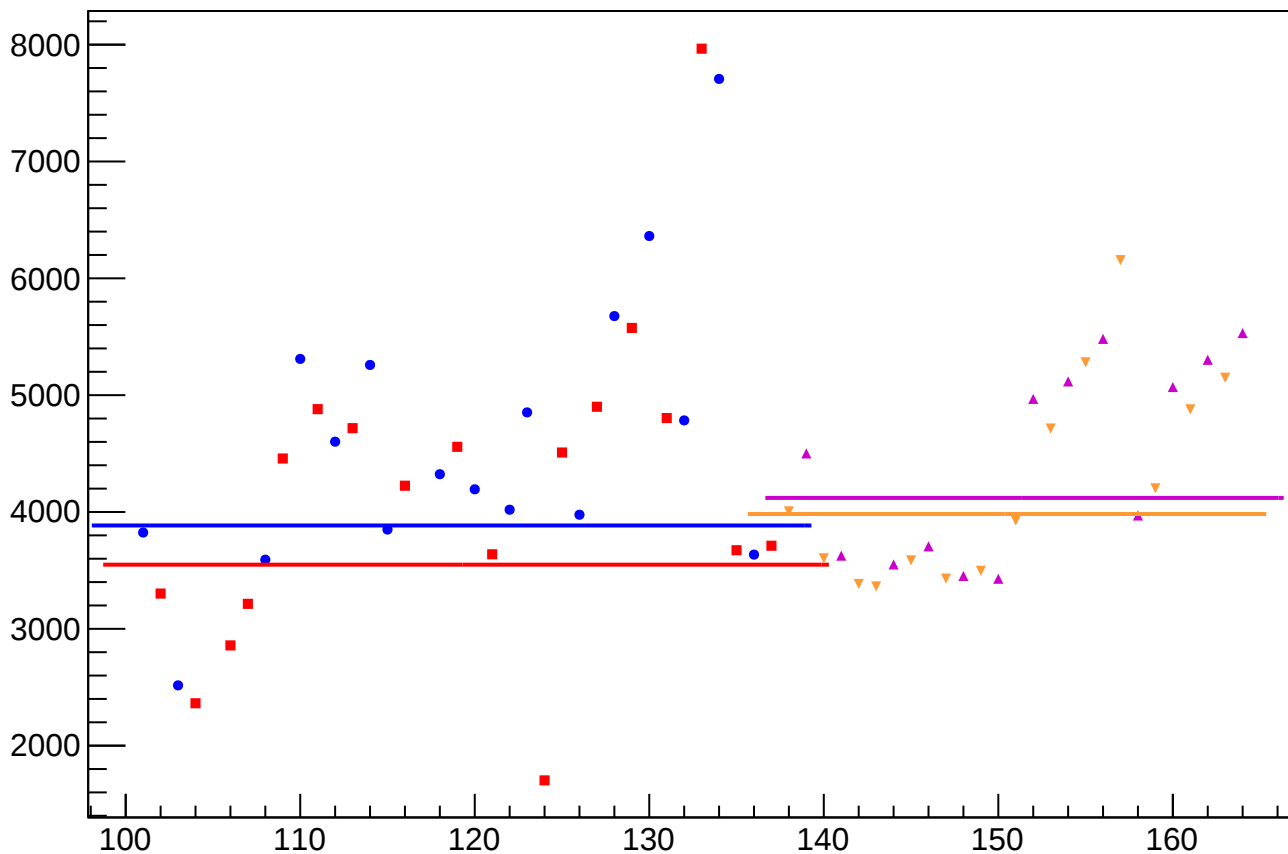
Left In: 1331.982+/-1300.917  $\chi^2/\text{NDF}$ : 11.7/12

+ sign 136.360+/-970.879  $\chi^2/\text{NDF}$ : 32.7/30

All: 174.911+/-681.544  $\chi^2/\text{NDF}$ : 61.9/61

- sign 212.365+/-956.968  $\chi^2/\text{NDF}$ : 29.2/30

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



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

Left Out: 3982.763+/-0.880  $\chi^2/\text{NDF}$ : 648641.0/13

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

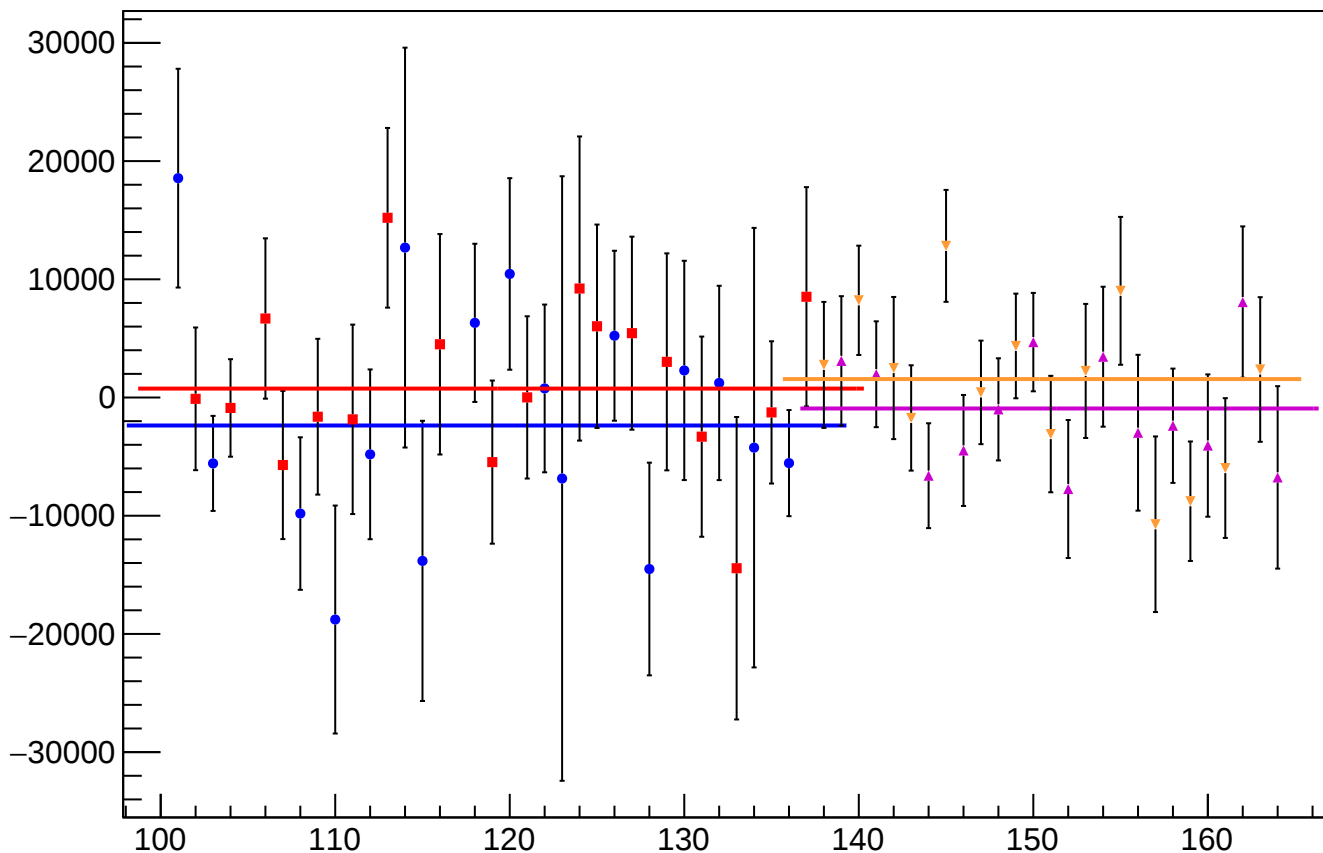
Left In: 4120.542+/-0.920  $\chi^2/\text{NDF}$ : 653424.5/12

+ sign 3944.347+/-0.687  $\chi^2/\text{NDF}$ : 1480074.5/30

All: 3900.720+/-0.482  $\chi^2/\text{NDF}$ : 3645468.8/63

- sign 3858.335+/-0.677  $\chi^2/\text{NDF}$ : 2157432.7/30

# asym\_atr\_dd\_mean vs Slug



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

Left Out:  $1561.300 \pm 1388.992$   $\chi^2/\text{NDF}$ : 19.7/13

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

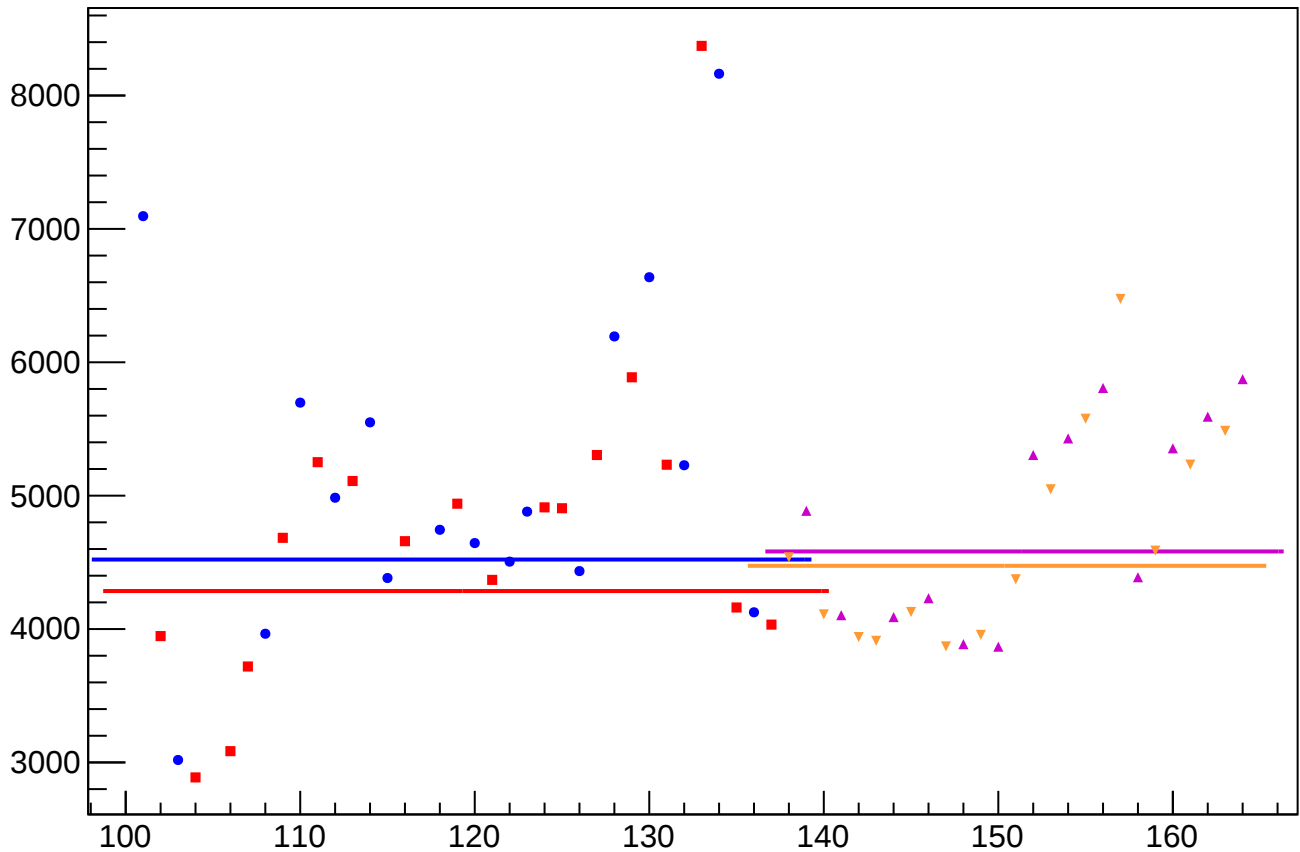
Left In:  $-929.435 \pm 1438.601$   $\chi^2/\text{NDF}$ : 9.9/12

+ sign  $96.956 \pm 1100.097$   $\chi^2/\text{NDF}$ : 42.8/30

All:  $-63.520 \pm 776.540$   $\chi^2/\text{NDF}$ : 63.8/61

- sign  $-222.889 \pm 1096.298$   $\chi^2/\text{NDF}$ : 21.0/30

# asym\_atr\_dd\_rms vs Slug



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

Left Out: 4474.281+/-0.982  $\chi^2/\text{NDF}$ : 453755.6/13

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

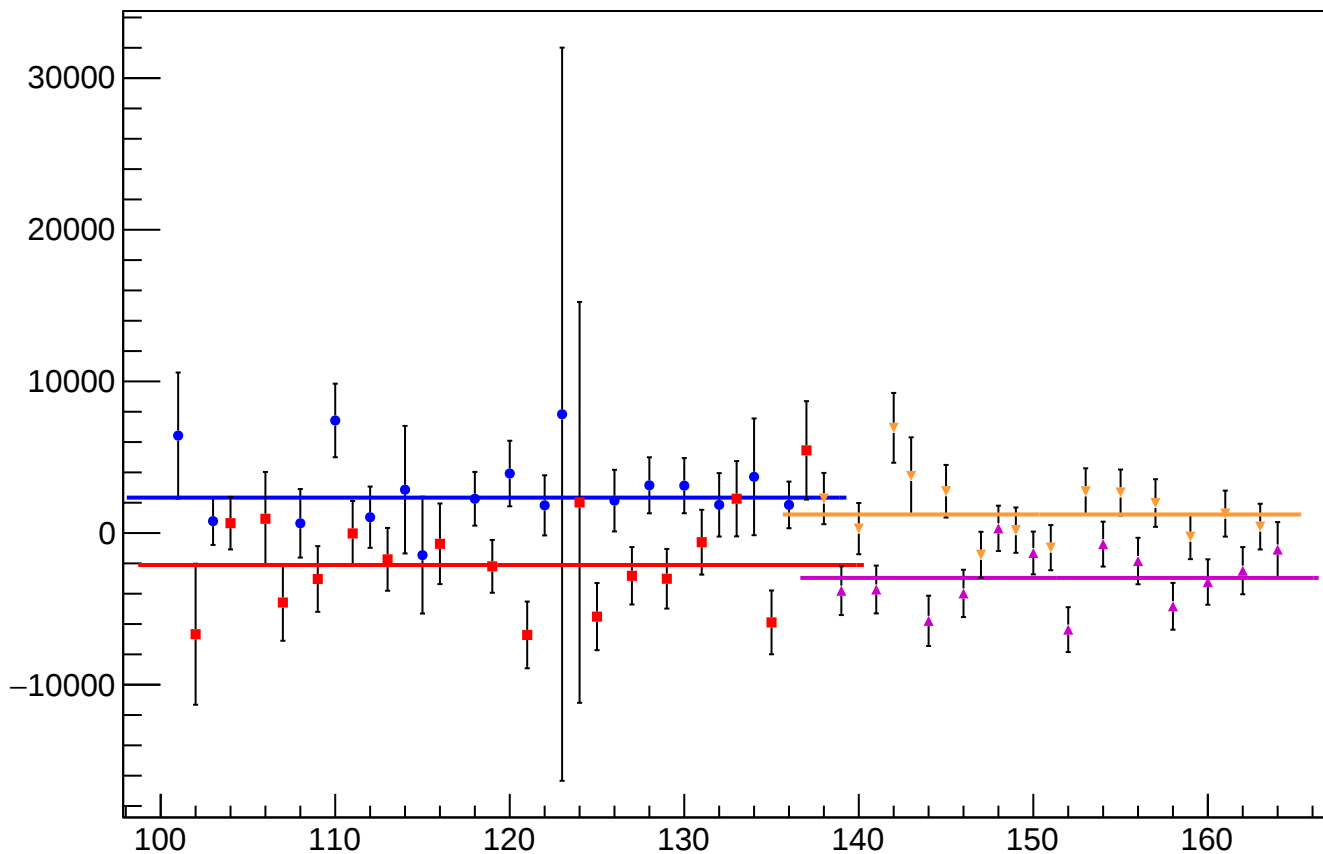
Left In: 4581.759+/-1.017  $\chi^2/\text{NDF}$ : 458235.0/12

+ sign 4491.780+/-0.778  $\chi^2/\text{NDF}$ : 1233282.3/30

All: 4474.067+/-0.548  $\chi^2/\text{NDF}$ : 2474845.8/63

- sign 4456.559+/-0.773  $\chi^2/\text{NDF}$ : 1240532.6/30

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



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

Left Out: 1227.363 $\pm$ 433.651  $\chi^2$ /NDF:17.8/13

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

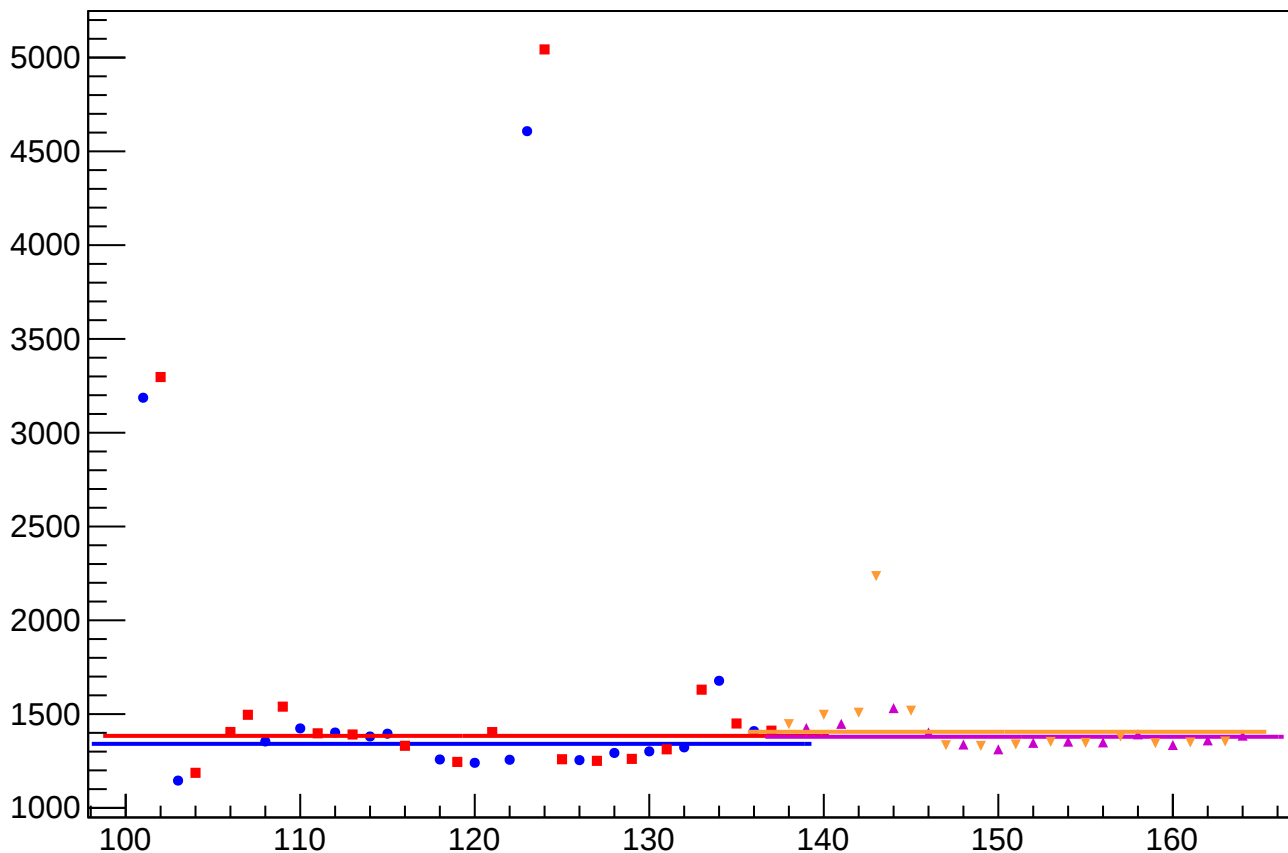
Left In: -2959.251 $\pm$ 428.785  $\chi^2$ /NDF:20.8/12

+ sign 1671.188 $\pm$ 335.910  $\chi^2$ /NDF: 30.0/30

All: -480.443 $\pm$ 237.452  $\chi^2$ /NDF: 160.7/61

- sign -2629.443 $\pm$ 335.704  $\chi^2$ /NDF: 48.6/30

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



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

Left Out: 1405.651 $\pm$ 0.307  $\chi^2$ /NDF: 259634.2/13

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

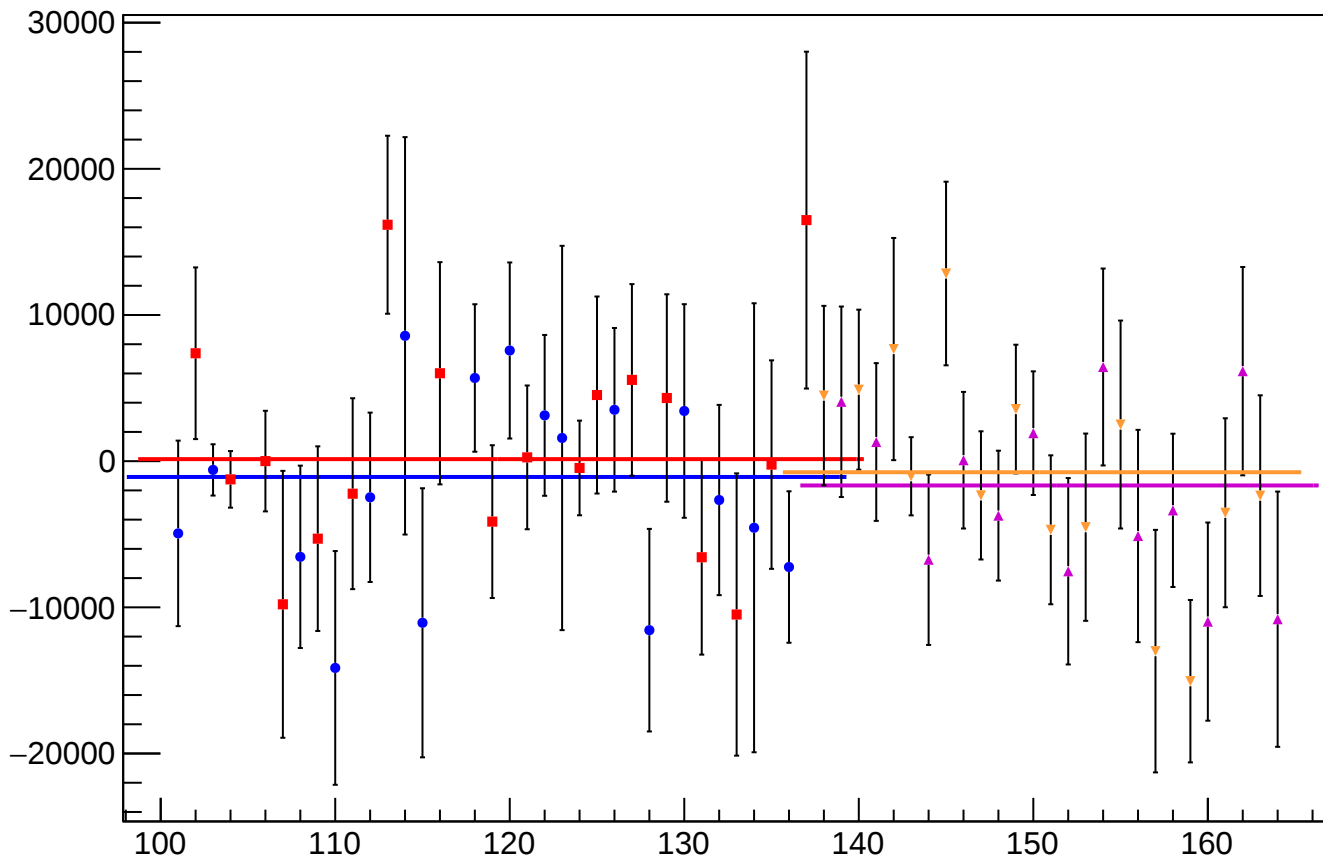
Left In: 1379.103 $\pm$ 0.303  $\chi^2$ /NDF: 33503.8/12

+ sign 1379.941 $\pm$ 0.238  $\chi^2$ /NDF: 781481.7/30

All: 1380.455 $\pm$ 0.168  $\chi^2$ /NDF: 1408938.5/63

- sign 1380.967 $\pm$ 0.237  $\chi^2$ /NDF: 627447.5/30

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



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

Left Out: -757.651+/-1385.837  $\chi^2/\text{NDF}$ : 19.0/13

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

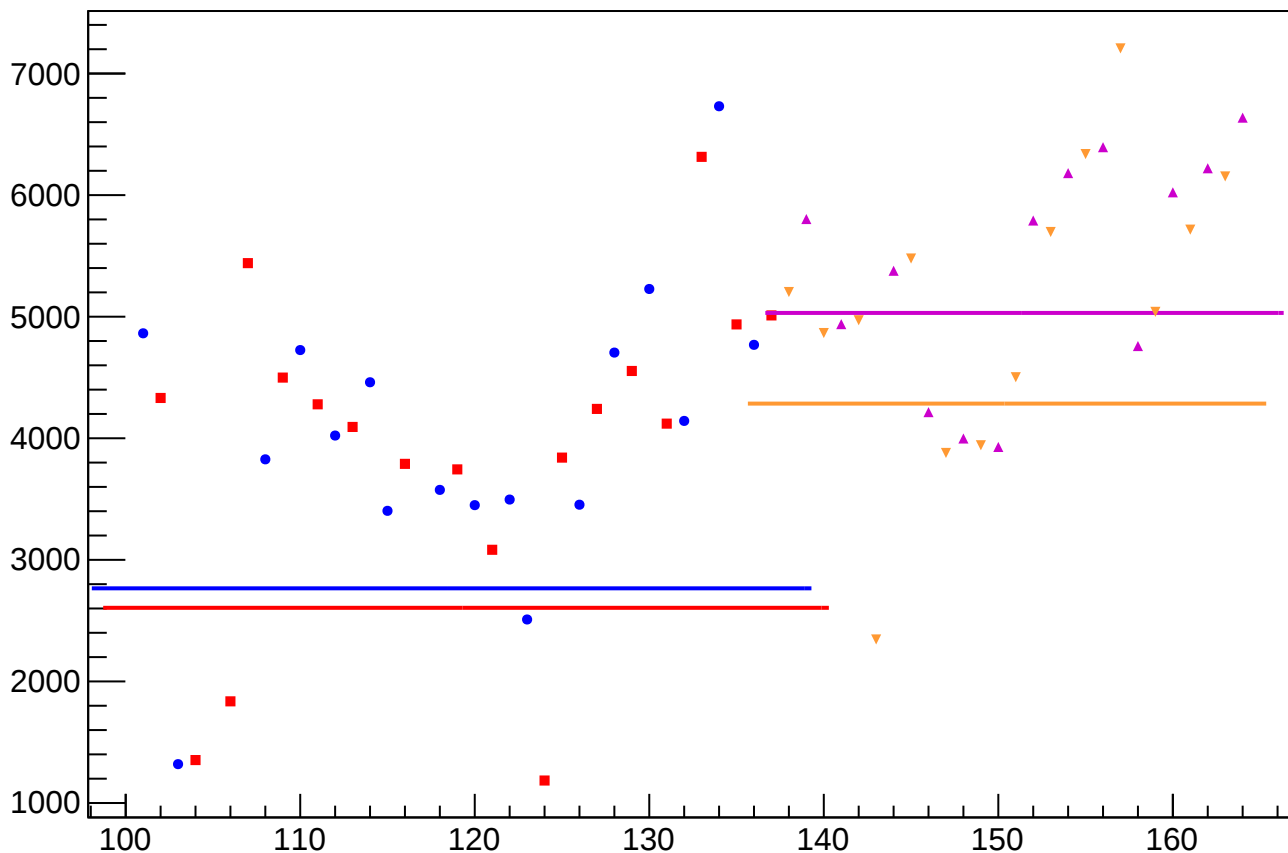
Left In: -1661.996+/-1588.707  $\chi^2/\text{NDF}$ : 9.7/12

+ sign -940.839+/-912.484  $\chi^2/\text{NDF}$ : 34.0/30

All: -705.319+/-648.026  $\chi^2/\text{NDF}$ : 62.7/61

- sign -465.663+/-920.461  $\chi^2/\text{NDF}$ : 28.6/30

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



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

Left Out: 4285.140 $\pm$ 0.980  $\chi^2/\text{NDF}$ : 2035694.1/13

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

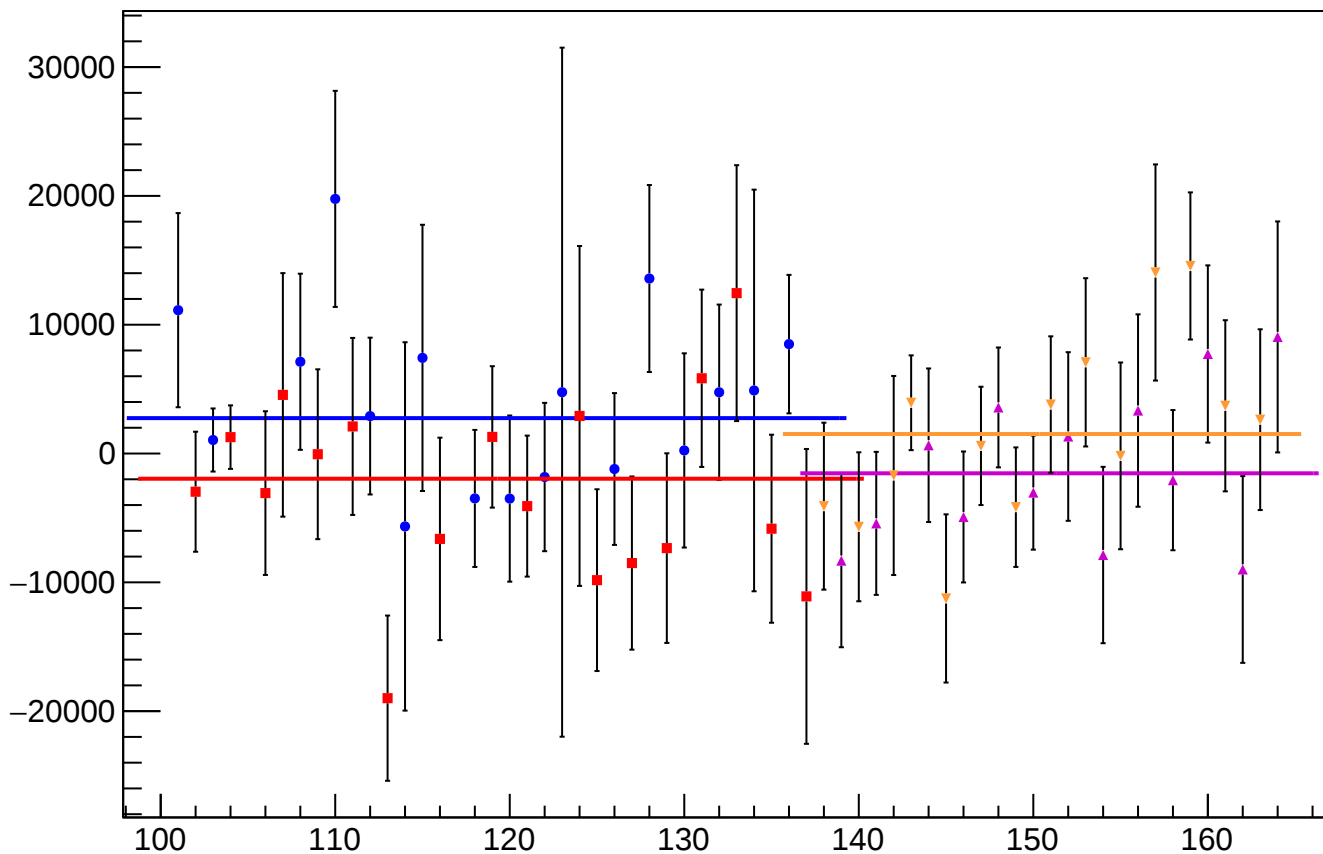
Left In: 5030.962 $\pm$ 1.123  $\chi^2/\text{NDF}$ : 669532.3/12

+ sign 3424.455 $\pm$ 0.645  $\chi^2/\text{NDF}$ : 6336609.8/30

All: 3422.095 $\pm$ 0.458  $\chi^2/\text{NDF}$ : 13425206.0/6

- sign 3419.694 $\pm$ 0.651  $\chi^2/\text{NDF}$ : 7088569.2/30

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



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

Left Out: 1513.467+/-1529.205  $\chi^2/\text{NDF}$ : 16.8/13

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

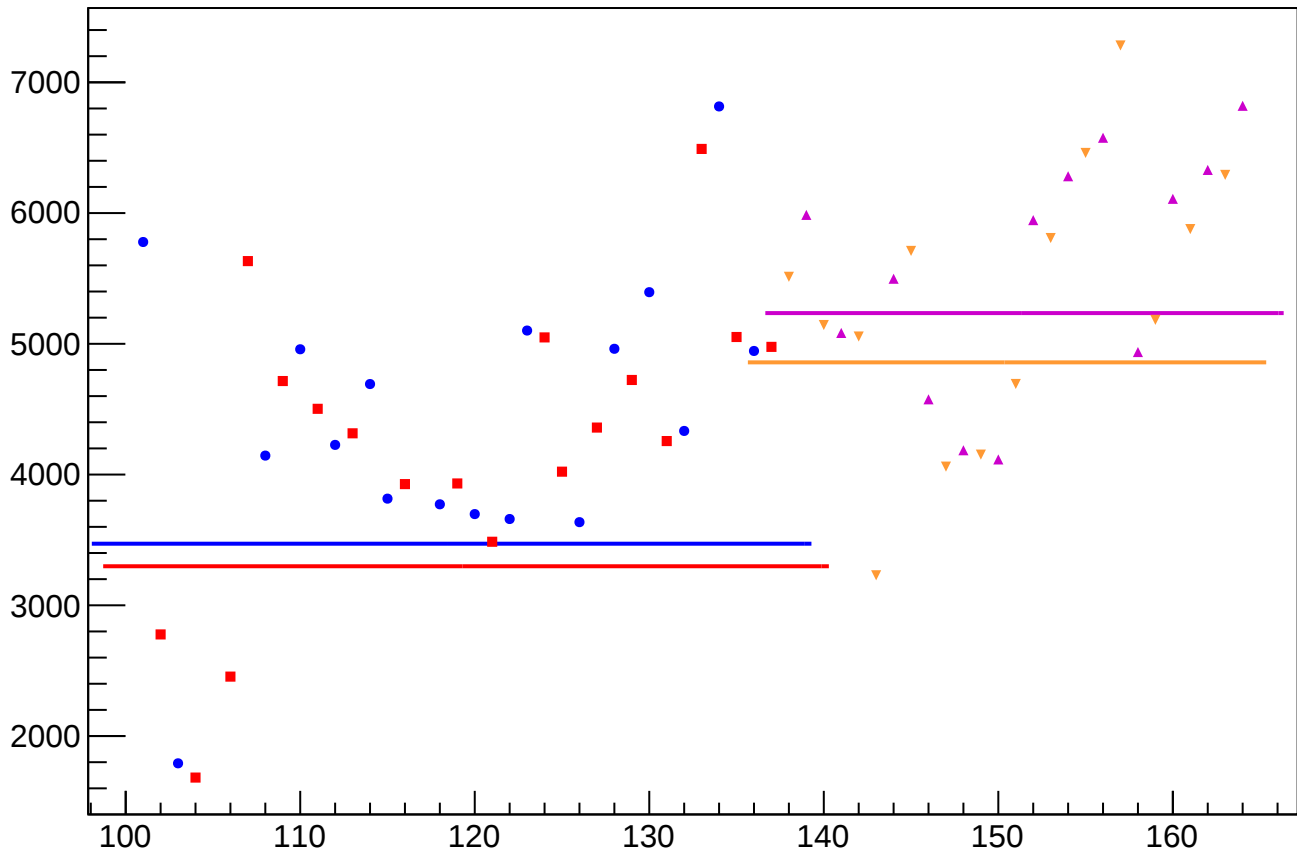
Left In: -1535.489+/-1649.489  $\chi^2/\text{NDF}$ : 9.2/12

+ sign 2165.108+/-1050.905  $\chi^2/\text{NDF}$ : 30.9/30

All: 209.156+/-746.425  $\chi^2/\text{NDF}$ : 64.9/61

- sign -1782.178+/-1060.368  $\chi^2/\text{NDF}$ : 27.0/30

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



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

Left Out: 4858.158+/-1.081  $\chi^2/\text{NDF}$ : 1005160.0/13

+ sign 4126.185+/-0.743  $\chi^2/\text{NDF}$ : 3641355.4/30

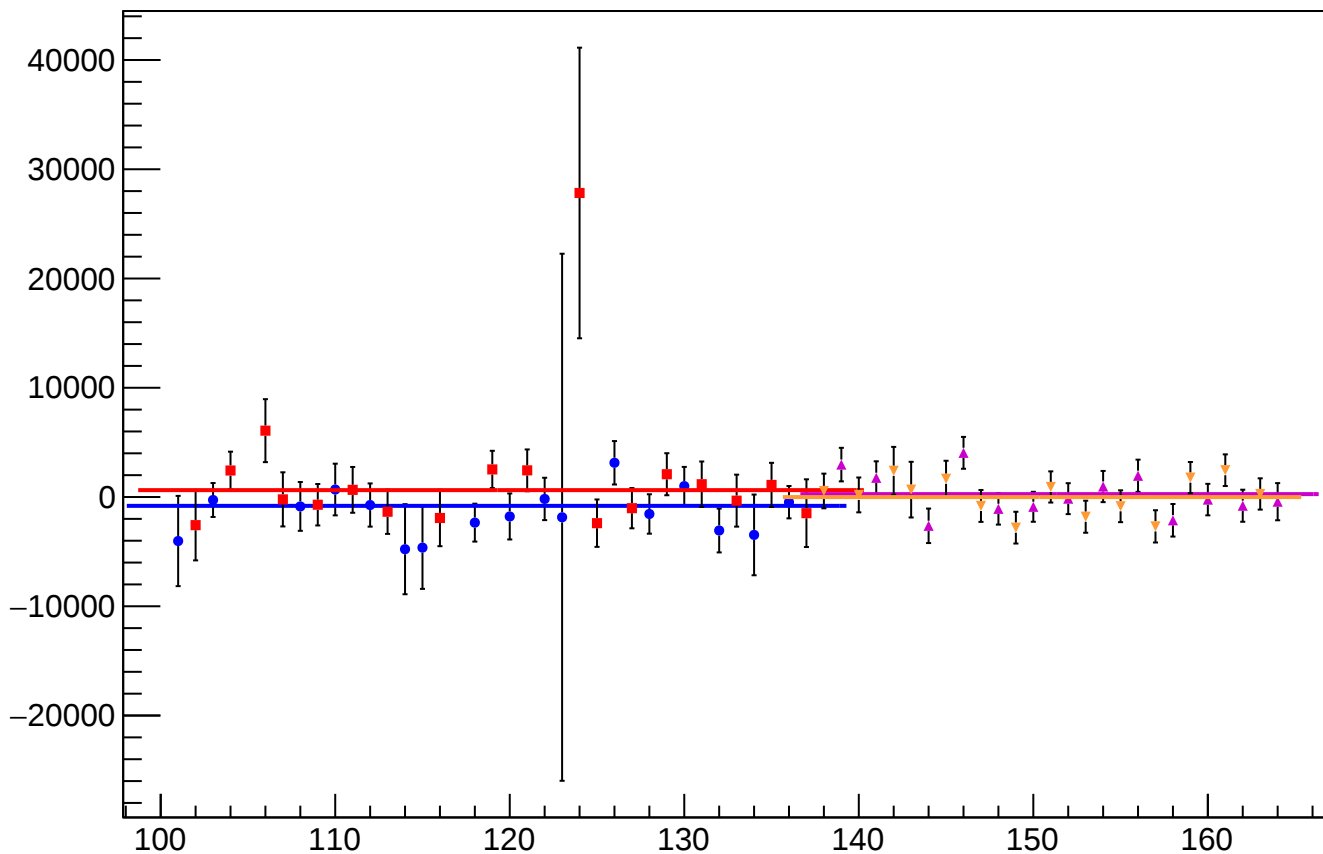
Right Out: 3298.657+/-0.970  $\chi^2/\text{NDF}$ : 1886021.8/17

All: 4108.266+/-0.526  $\chi^2/\text{NDF}$ : 7732642.5/63

- sign 4090.219+/-0.746  $\chi^2/\text{NDF}$ : 4090119.9/30

Left In: 5235.010+/-1.166  $\chi^2/\text{NDF}$ : 574643.4/12

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:  $-5.725 \pm 415.064$   $\chi^2/\text{NDF}$ : 16.5/13

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

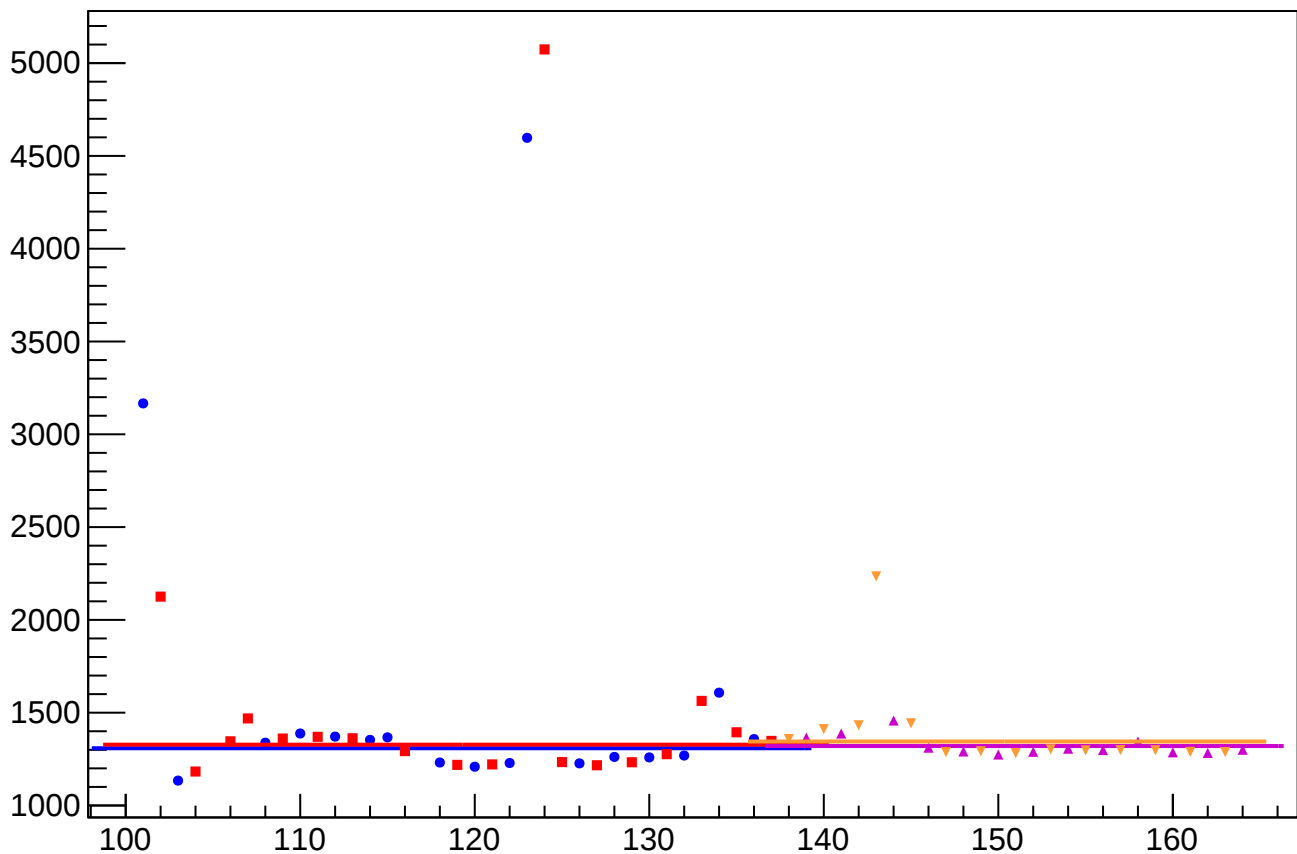
Left In:  $265.686 \pm 410.409$   $\chi^2/\text{NDF}$ : 20.8/12

+ sign  $-319.677 \pm 323.954$   $\chi^2/\text{NDF}$ : 29.2/30

All:  $47.290 \pm 227.998$   $\chi^2/\text{NDF}$ : 71.3/61

- sign  $407.463 \pm 320.942$   $\chi^2/\text{NDF}$ : 39.6/30

# 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: 1344.749+/-0.293  $\chi^2/\text{NDF}$ : 281484.9/13

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

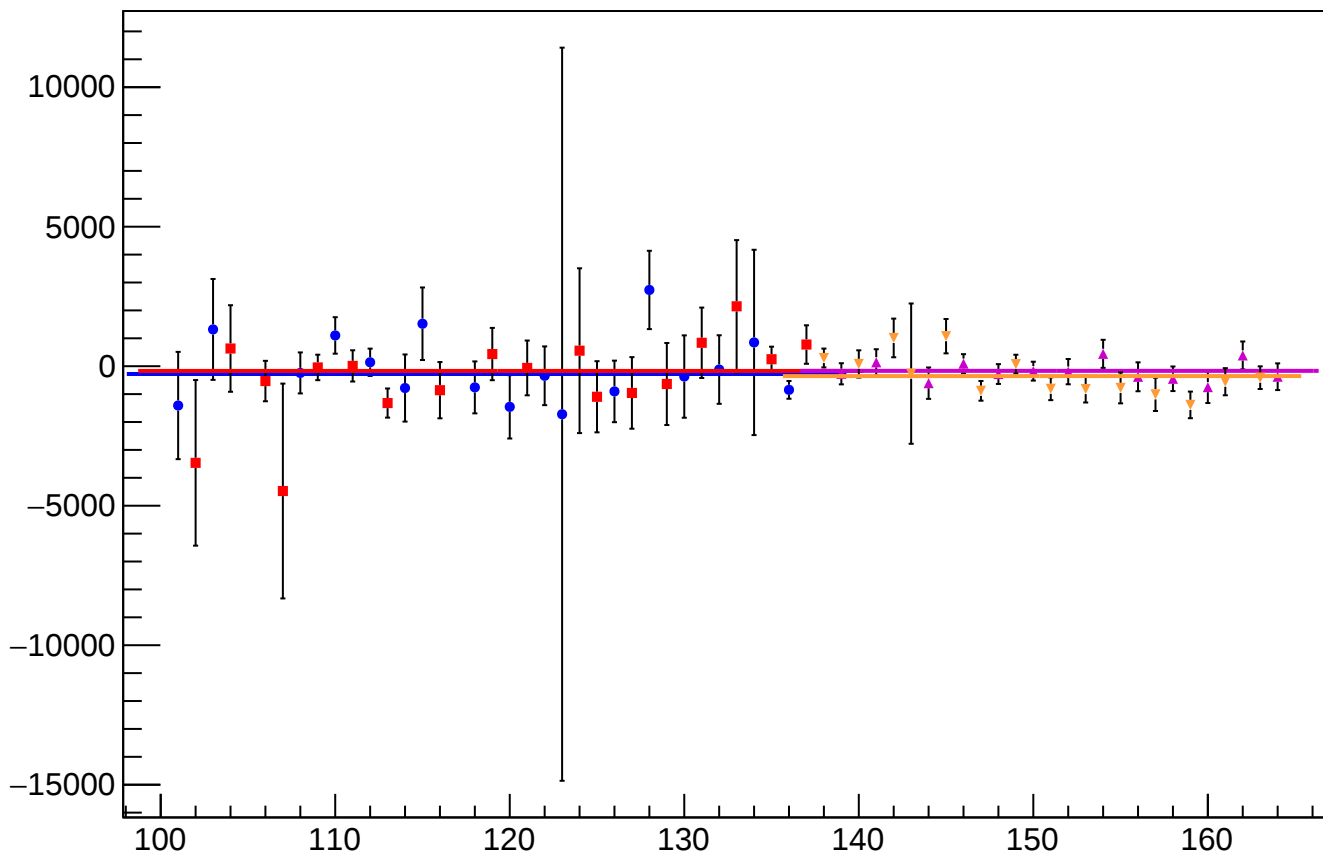
Left In: 1320.248+/-0.290  $\chi^2/\text{NDF}$ : 28812.1/12

+ sign 1330.530+/-0.229  $\chi^2/\text{NDF}$ : 794035.8/30

All: 1326.791+/-0.161  $\chi^2/\text{NDF}$ : 1180958.6/61

- sign 1323.122+/-0.227  $\chi^2/\text{NDF}$ : 386395.1/30

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:  $-354.507 \pm 123.387$   $\chi^2/\text{NDF}$ : 26.4/13

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

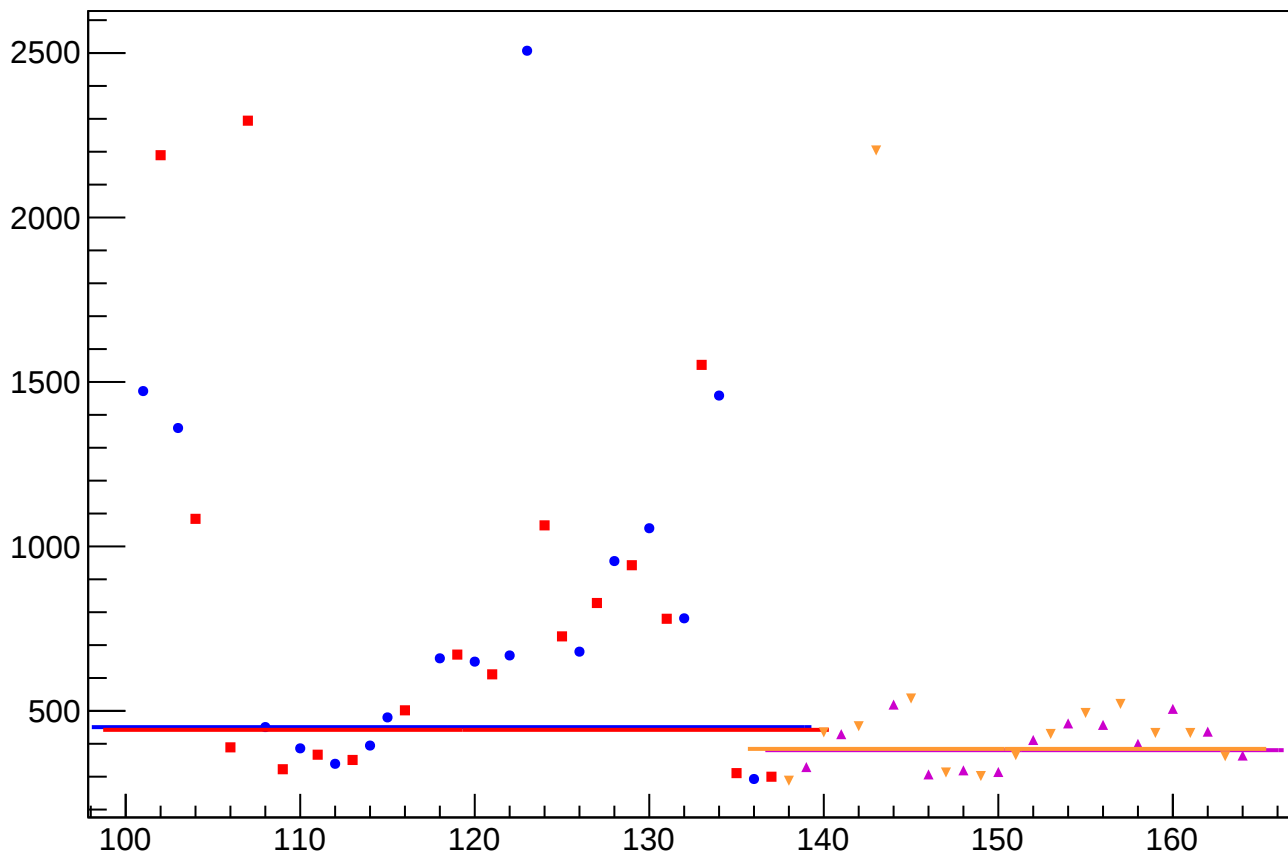
Left In:  $-166.450 \pm 120.244$   $\chi^2/\text{NDF}$ : 6.3/12

+ sign  $-333.325 \pm 104.736$   $\chi^2/\text{NDF}$ : 44.6/30

All:  $-248.119 \pm 73.066$   $\chi^2/\text{NDF}$ : 66.6/61

- sign  $-167.336 \pm 101.981$   $\chi^2/\text{NDF}$ : 20.7/30

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



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

Left Out: 384.445+/-0.087  $\chi^2/\text{NDF}$ : 1829292.5/13

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

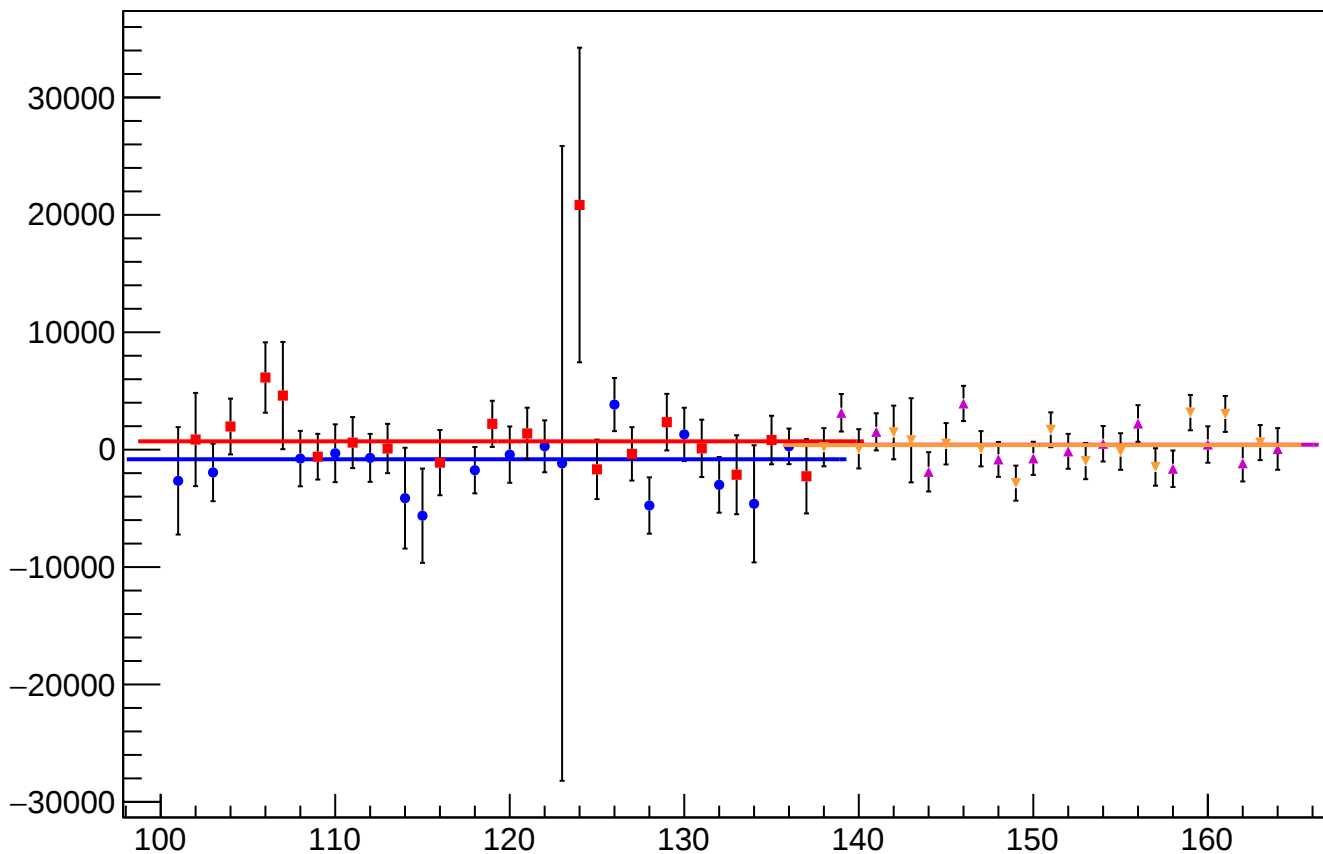
Left In: 380.560+/-0.085  $\chi^2/\text{NDF}$ : 644859.3/12

+ sign 402.932+/-0.074  $\chi^2/\text{NDF}$ : 4987675.8/30

All: 400.354+/-0.052  $\chi^2/\text{NDF}$ : 9151550.3/61

- sign 397.909+/-0.072  $\chi^2/\text{NDF}$ : 4161513.4/30

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



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

Left Out:  $391.678 \pm 437.905$   $\chi^2/\text{NDF}$ : 14.5/13

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

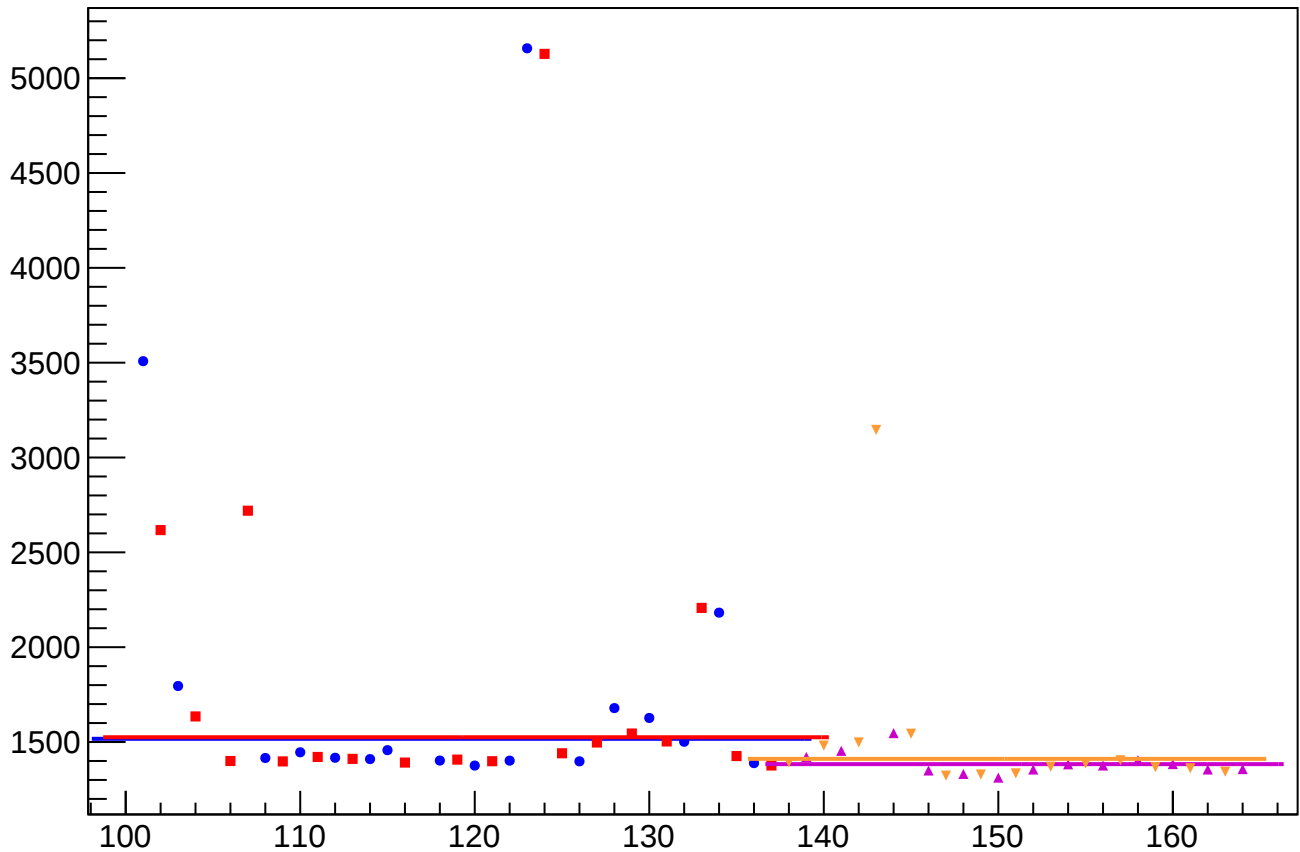
Left In:  $422.754 \pm 430.041$   $\chi^2/\text{NDF}$ : 16.4/12

+ sign  $-27.379 \pm 353.952$   $\chi^2/\text{NDF}$ : 29.8/30

All:  $251.020 \pm 248.422$   $\chi^2/\text{NDF}$ : 59.1/61

- sign  $521.298 \pm 348.750$   $\chi^2/\text{NDF}$ : 28.0/30

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



Right In: 1516.935+/-0.425  $\chi^2/\text{NDF}$ : 541039.6/16

Left Out: 1411.180+/-0.310  $\chi^2/\text{NDF}$ : 514681.9/13

Right Out: 1525.099+/-0.421  $\chi^2/\text{NDF}$ : 571929.2/17

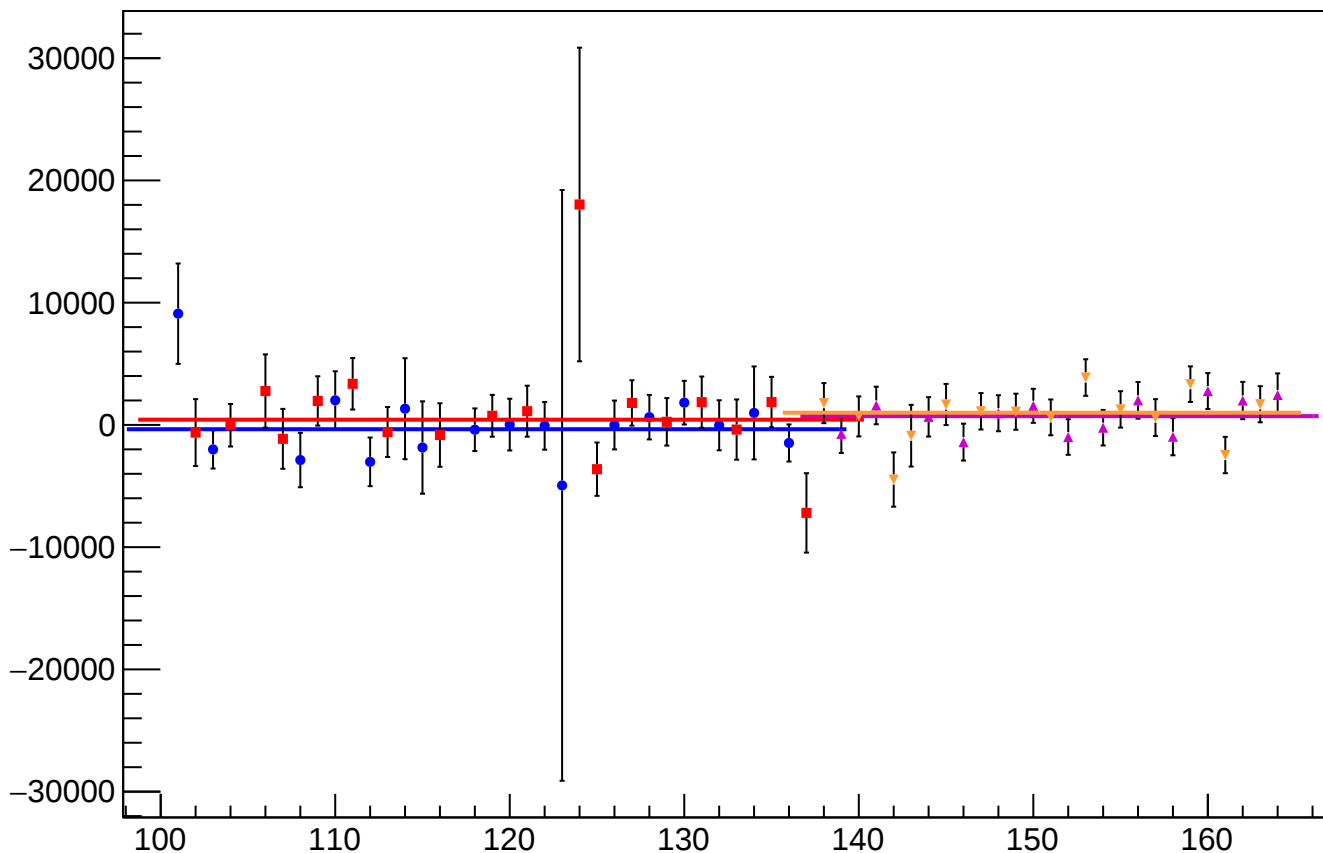
Left In: 1383.390+/-0.304  $\chi^2/\text{NDF}$ : 34830.7/12

+ sign 1447.843+/-0.250  $\chi^2/\text{NDF}$ : 1096160.4/30

All: 1439.754+/-0.176  $\chi^2/\text{NDF}$ : 1779324.1/63

- sign 1431.901+/-0.247  $\chi^2/\text{NDF}$ : 681105.2/30

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:  $999.982 \pm 424.322$   $\chi^2/\text{NDF}$ : 19.1/13

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

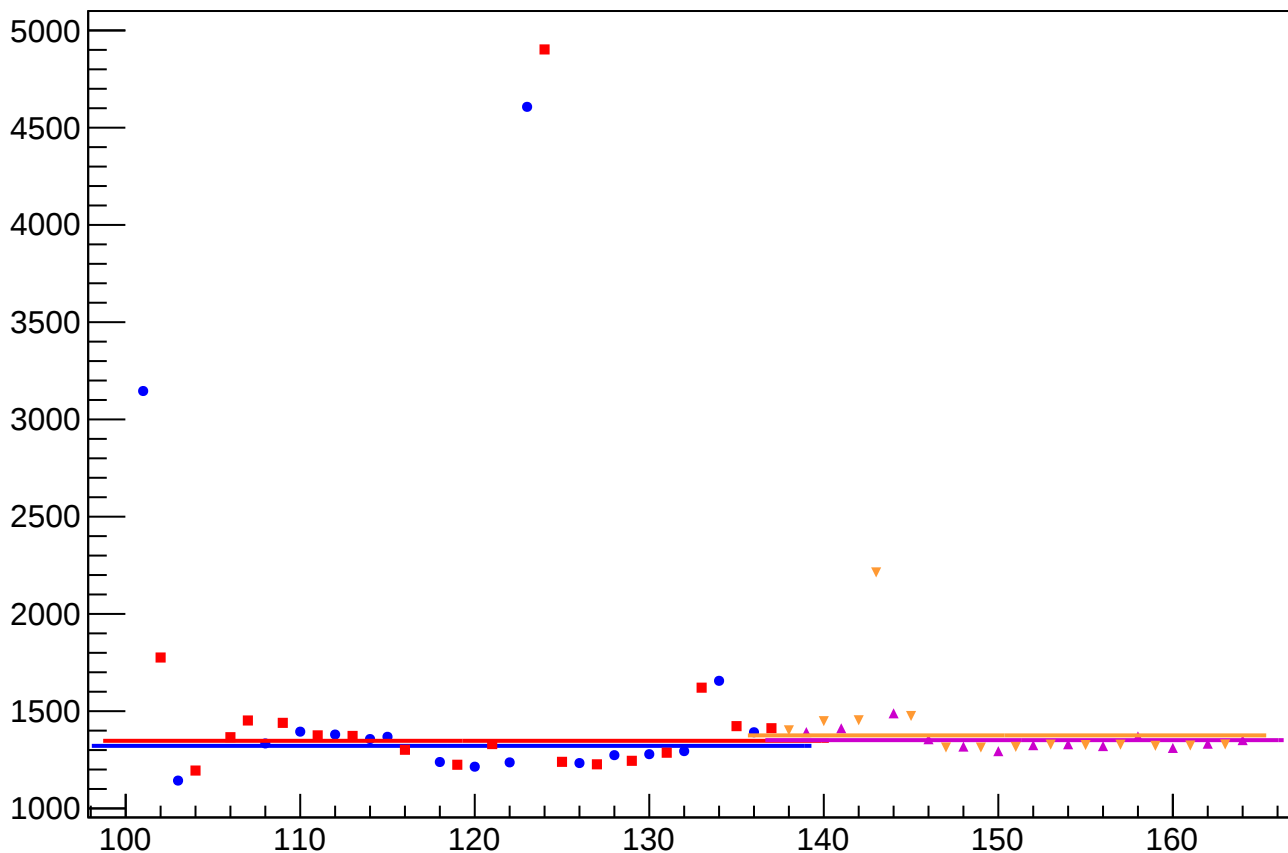
Left In:  $720.336 \pm 419.942$   $\chi^2/\text{NDF}$ : 10.9/12

+ sign  $463.262 \pm 329.593$   $\chi^2/\text{NDF}$ : 36.6/30

All:  $535.144 \pm 232.238$   $\chi^2/\text{NDF}$ : 64.6/61

- sign  $606.024 \pm 327.286$   $\chi^2/\text{NDF}$ : 28.0/30

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



Right In: 1321.703+/-0.370  $\chi^2/\text{NDF}$ : 502245.7/16

Left Out: 1375.594+/-0.300  $\chi^2/\text{NDF}$ : 258133.4/13

Right Out: 1347.646+/-0.369  $\chi^2/\text{NDF}$ : 286301.2/17

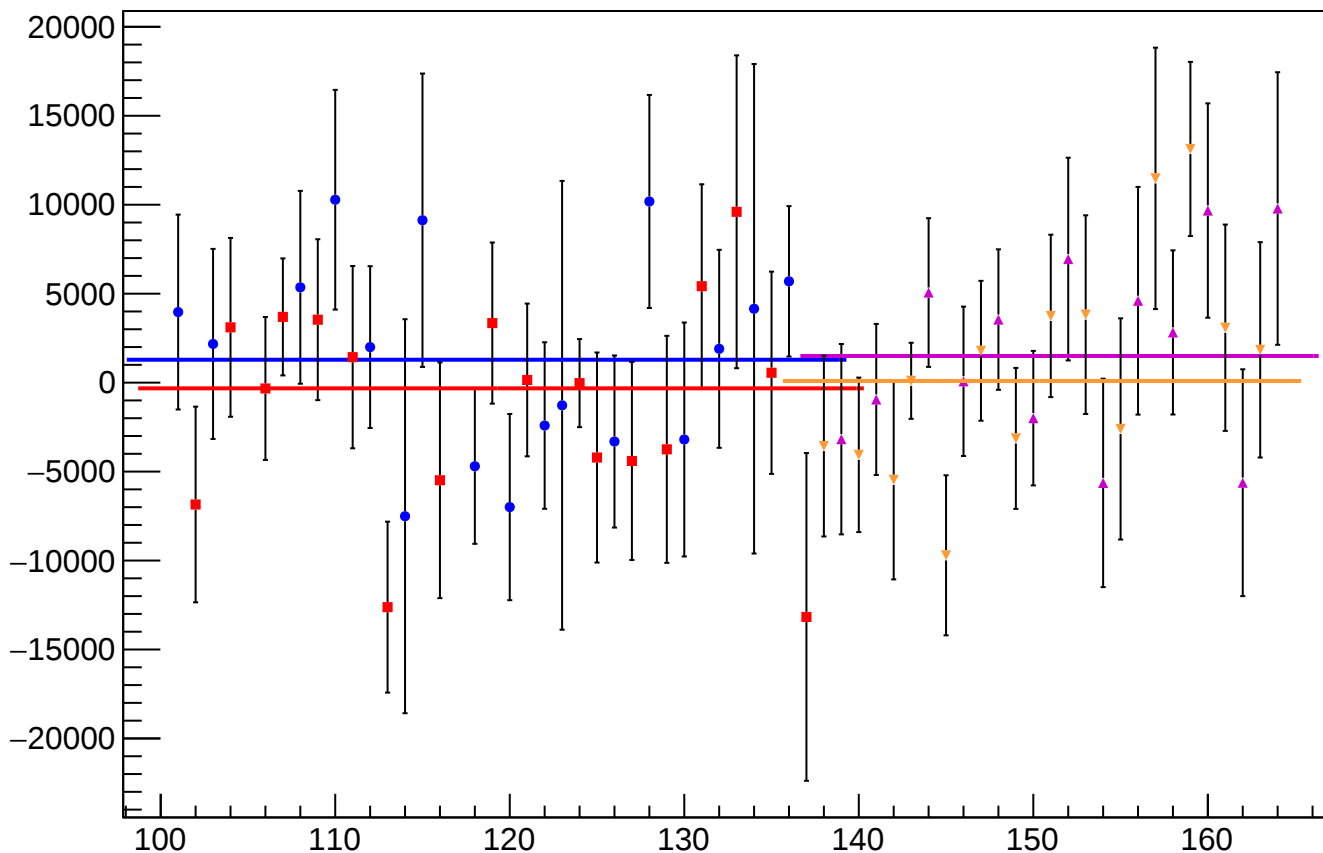
Left In: 1351.043+/-0.297  $\chi^2/\text{NDF}$ : 27486.3/12

+ sign 1354.218+/-0.233  $\chi^2/\text{NDF}$ : 773175.8/30

All: 1351.947+/-0.164  $\chi^2/\text{NDF}$ : 1087203.2/63

- sign 1349.708+/-0.231  $\chi^2/\text{NDF}$ : 313838.9/30

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: 93.940 $\pm$ 1159.695  $\chi^2$ /NDF: 19.1/13

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

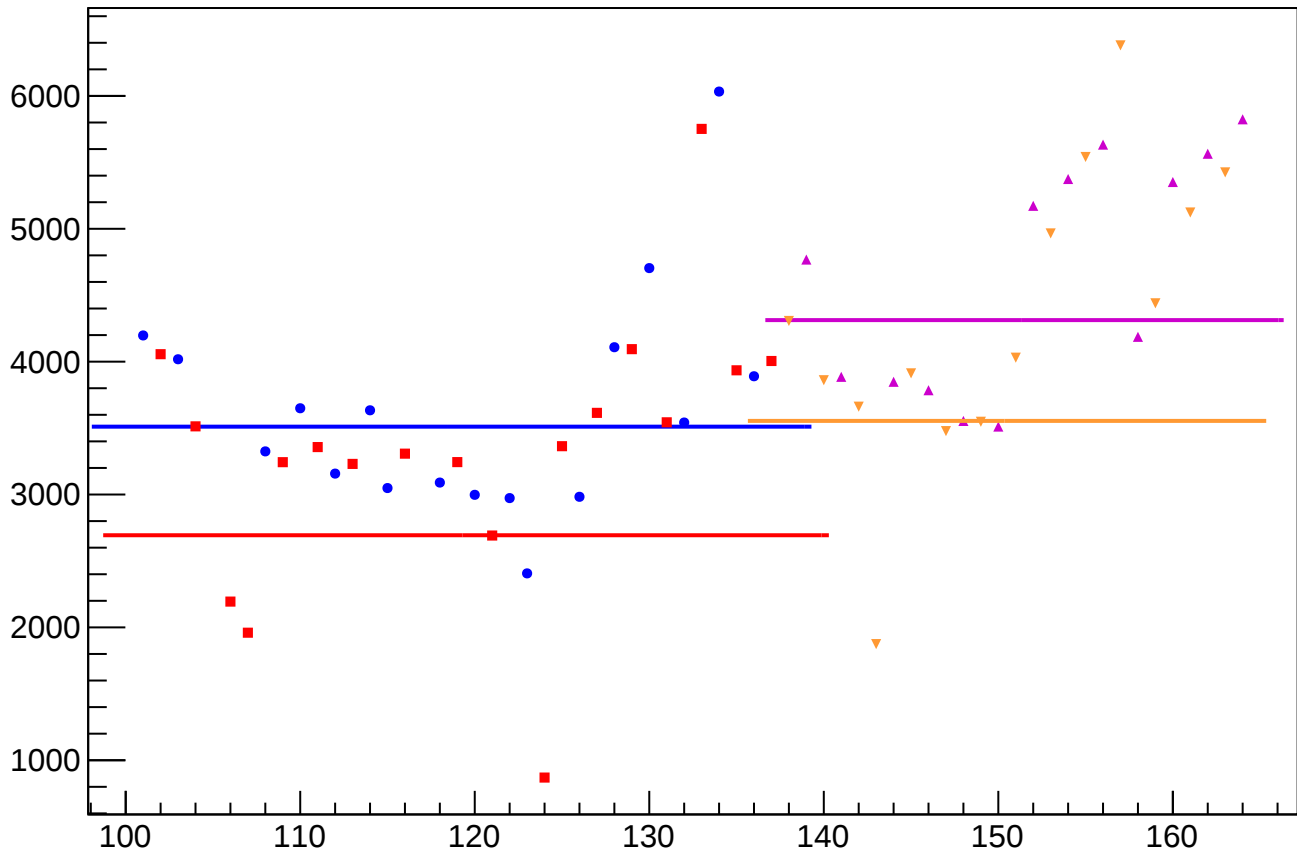
Left In: 1498.382 $\pm$ 1362.019  $\chi^2$ /NDF: 10.0/12

+ sign 589.700 $\pm$ 886.720  $\chi^2$ /NDF: 33.9/30

All: 492.457 $\pm$ 616.743  $\chi^2$ /NDF: 62.6/61

- sign 401.330 $\pm$ 858.383  $\chi^2$ /NDF: 28.7/30

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: 3554.148 $\pm$ 0.820  $\chi^2$ /NDF: 2355303.8/13

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

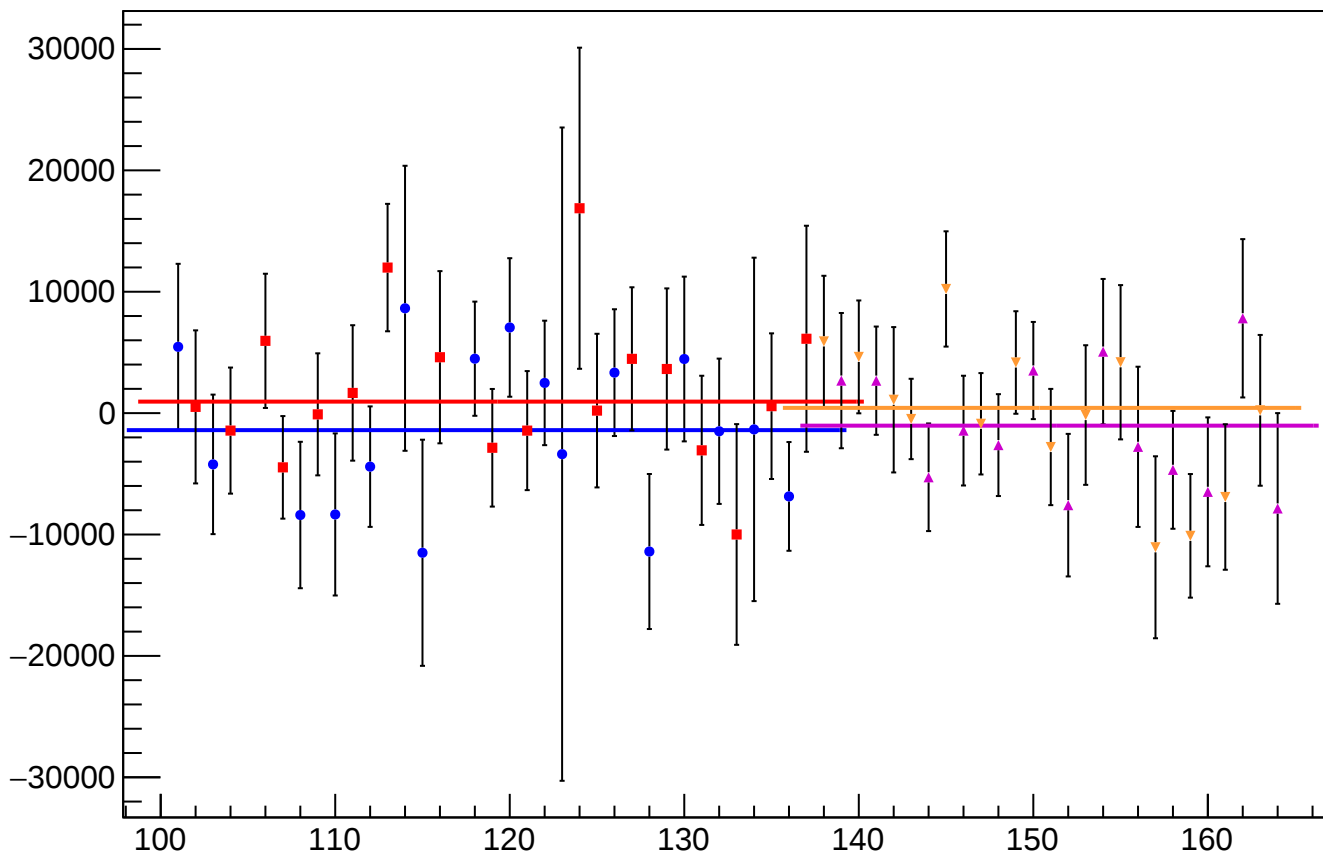
Left In: 4312.734 $\pm$ 0.963  $\chi^2$ /NDF: 667293.4/12

+ sign 3536.143 $\pm$ 0.627  $\chi^2$ /NDF: 2700519.0/30

All: 3433.153 $\pm$ 0.436  $\chi^2$ /NDF: 7249892.4/63

- sign 3336.641 $\pm$ 0.607  $\chi^2$ /NDF: 4497110.5/30

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



Right In: -1401.442+/-1504.149  $\chi^2/\text{NDF}$ : 15.8/16

Left Out: 432.183+/-1329.066  $\chi^2/\text{NDF}$ : 16.0/13

Right Out: 947.960+/-1382.709  $\chi^2/\text{NDF}$ : 12.5/17

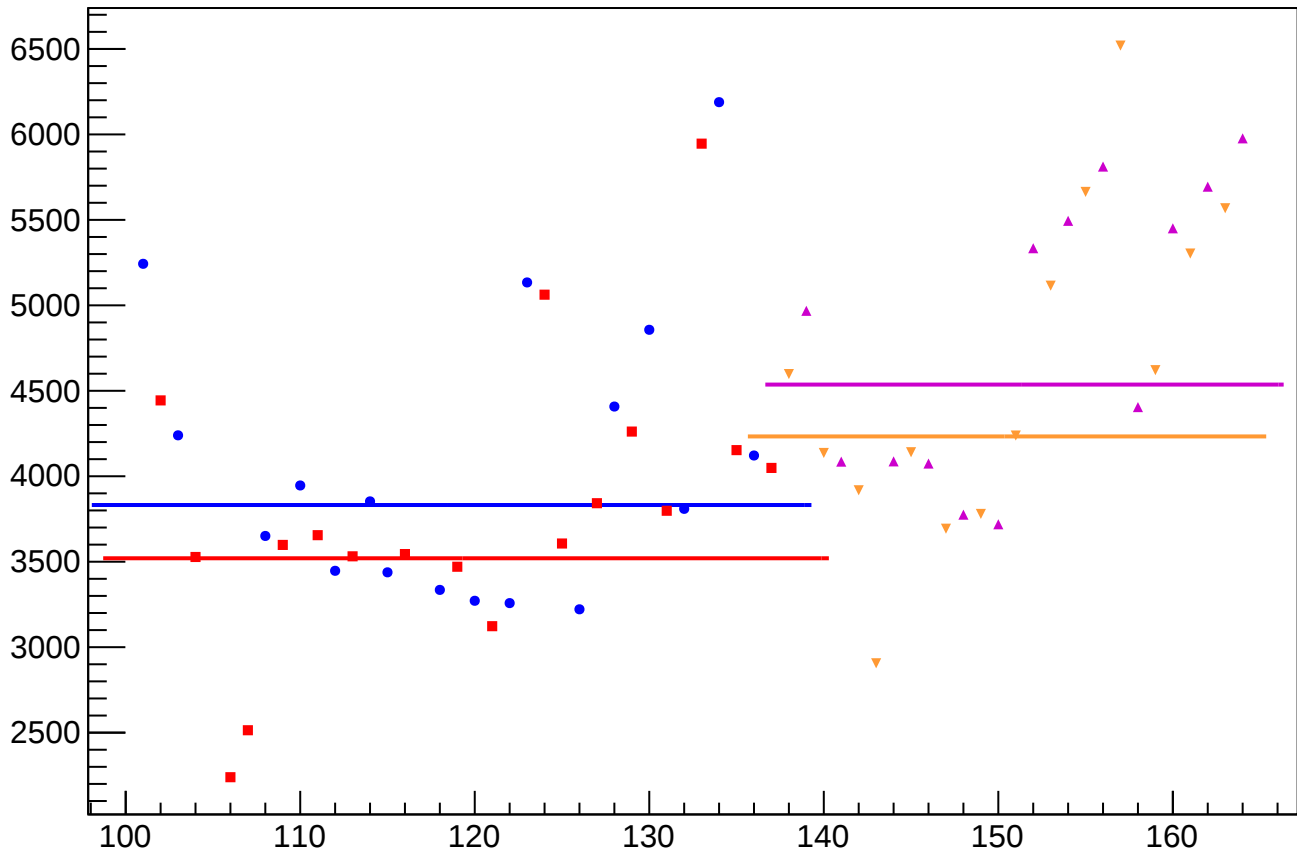
Left In: -1032.242+/-1428.481  $\chi^2/\text{NDF}$ : 9.8/12

+ sign -371.748+/-995.968  $\chi^2/\text{NDF}$ : 32.7/30

All: -190.381+/-703.385  $\chi^2/\text{NDF}$ : 56.0/61

- sign -9.908+/-993.511  $\chi^2/\text{NDF}$ : 23.2/30

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



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

Left Out: 4233.051+/-0.940  $\chi^2/\text{NDF}$ : 896513.8/13

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

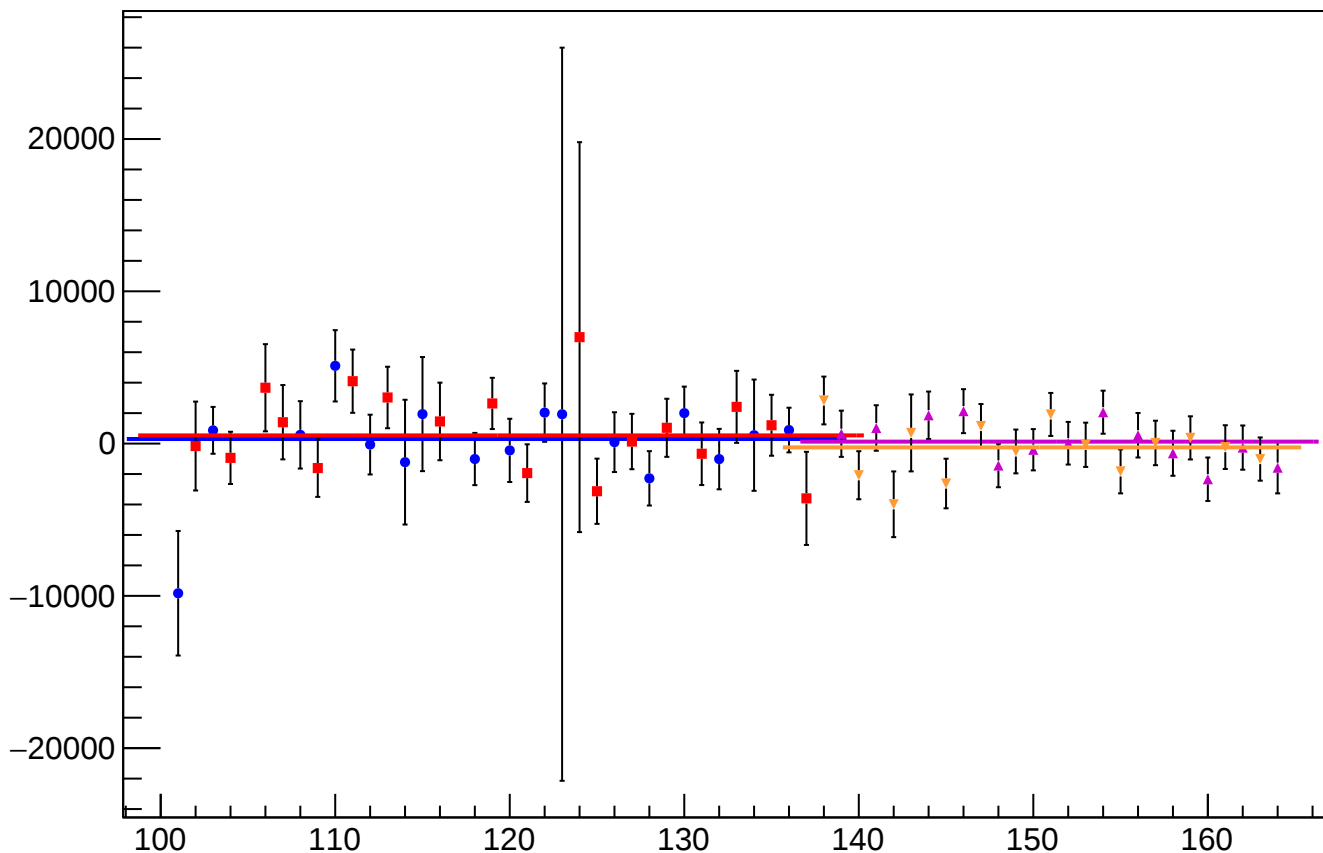
Left In: 4536.406+/-1.010  $\chi^2/\text{NDF}$ : 562048.8/12

+ sign 4057.130+/-0.704  $\chi^2/\text{NDF}$ : 1314140.1/30

All: 4031.933+/-0.496  $\chi^2/\text{NDF}$ : 2950076.6/63

- sign 4007.097+/-0.699  $\chi^2/\text{NDF}$ : 1633394.7/30

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



Right In: 301.968+/-512.834  $\chi^2/\text{NDF}$ : 16.1/16

Left Out: -250.042+/-410.855  $\chi^2/\text{NDF}$ : 15.5/13

Right Out: 537.727+/-508.684  $\chi^2/\text{NDF}$ : 17.5/17

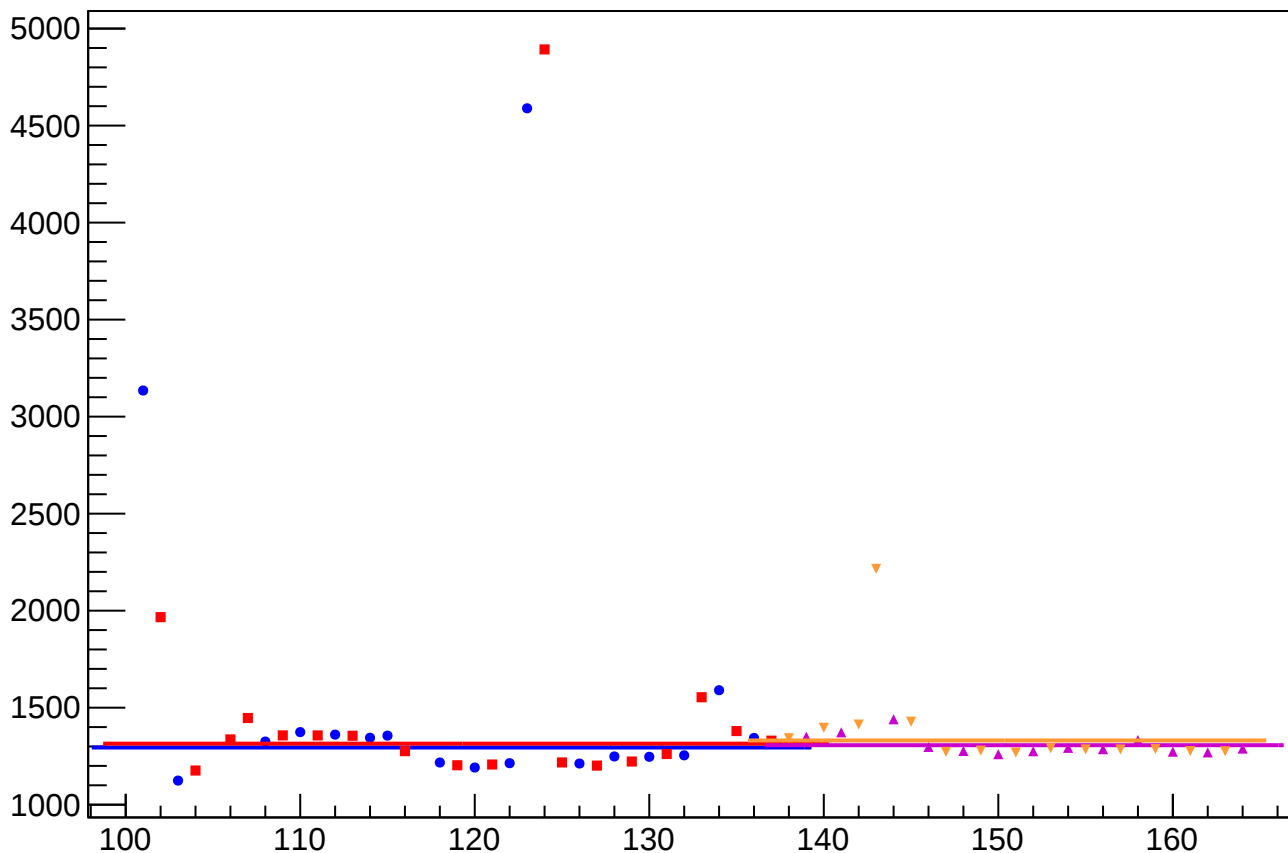
Left In: 127.841+/-406.168  $\chi^2/\text{NDF}$ : 11.3/12

+ sign -34.247+/-320.645  $\chi^2/\text{NDF}$ : 32.3/30

All: 128.223+/-225.574  $\chi^2/\text{NDF}$ : 62.0/61

- sign 287.422+/-317.401  $\chi^2/\text{NDF}$ : 29.2/30

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



Right In: 1294.729 $\pm$ 0.363  $\chi^2$ /NDF: 507803.9/16

Left Out: 1331.020 $\pm$ 0.291  $\chi^2$ /NDF: 281905.5/13

Right Out: 1314.588 $\pm$ 0.360  $\chi^2$ /NDF: 333838.6/17

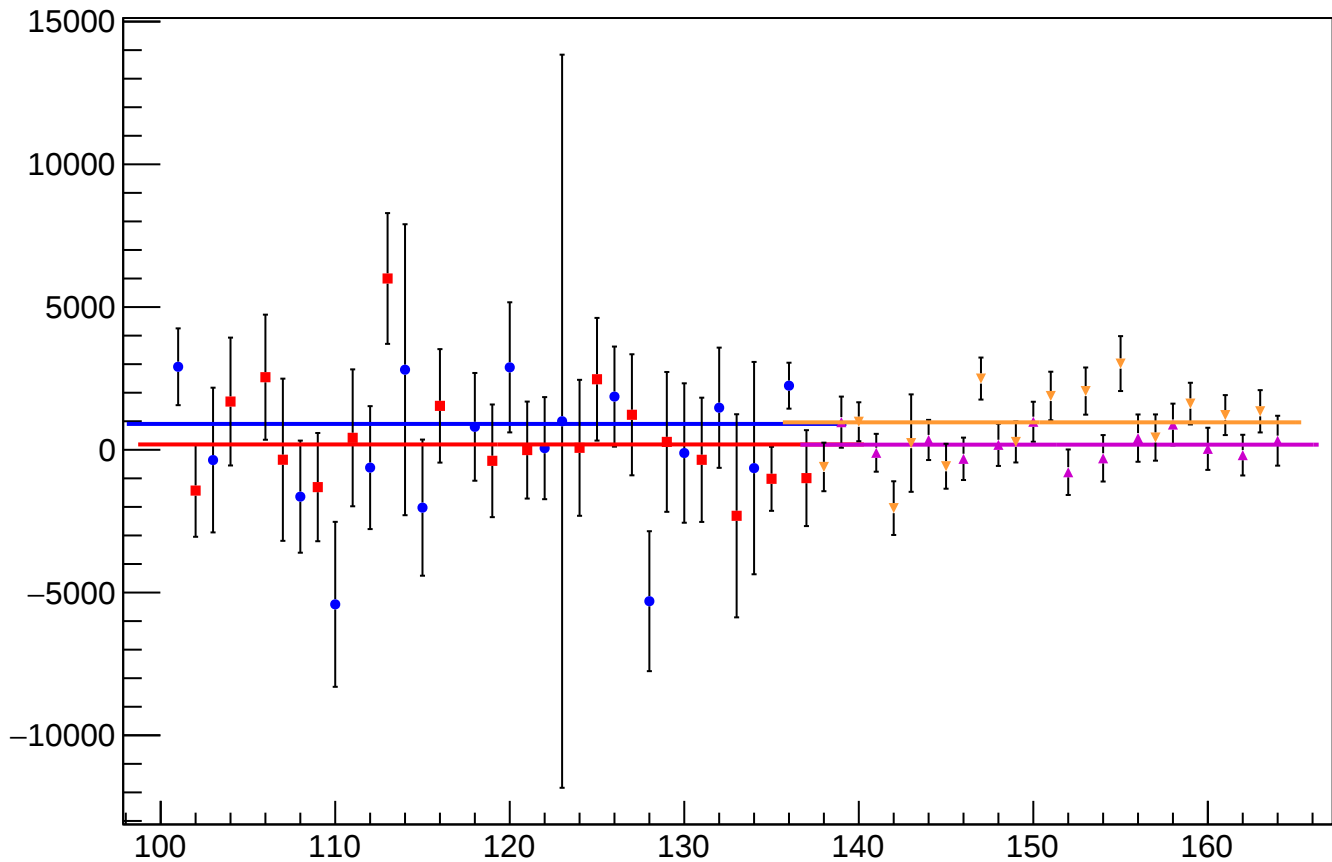
Left In: 1306.584 $\pm$ 0.287  $\chi^2$ /NDF: 28432.8/12

+ sign 1316.833 $\pm$ 0.227  $\chi^2$ /NDF: 795809.5/30

All: 1313.230 $\pm$ 0.160  $\chi^2$ /NDF: 1158883.2/63

- sign 1309.700 $\pm$ 0.224  $\chi^2$ /NDF: 362573.8/30

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



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

Left Out: 962.297 $\pm$ 215.194  $\chi^2$ /NDF:32.0/13

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

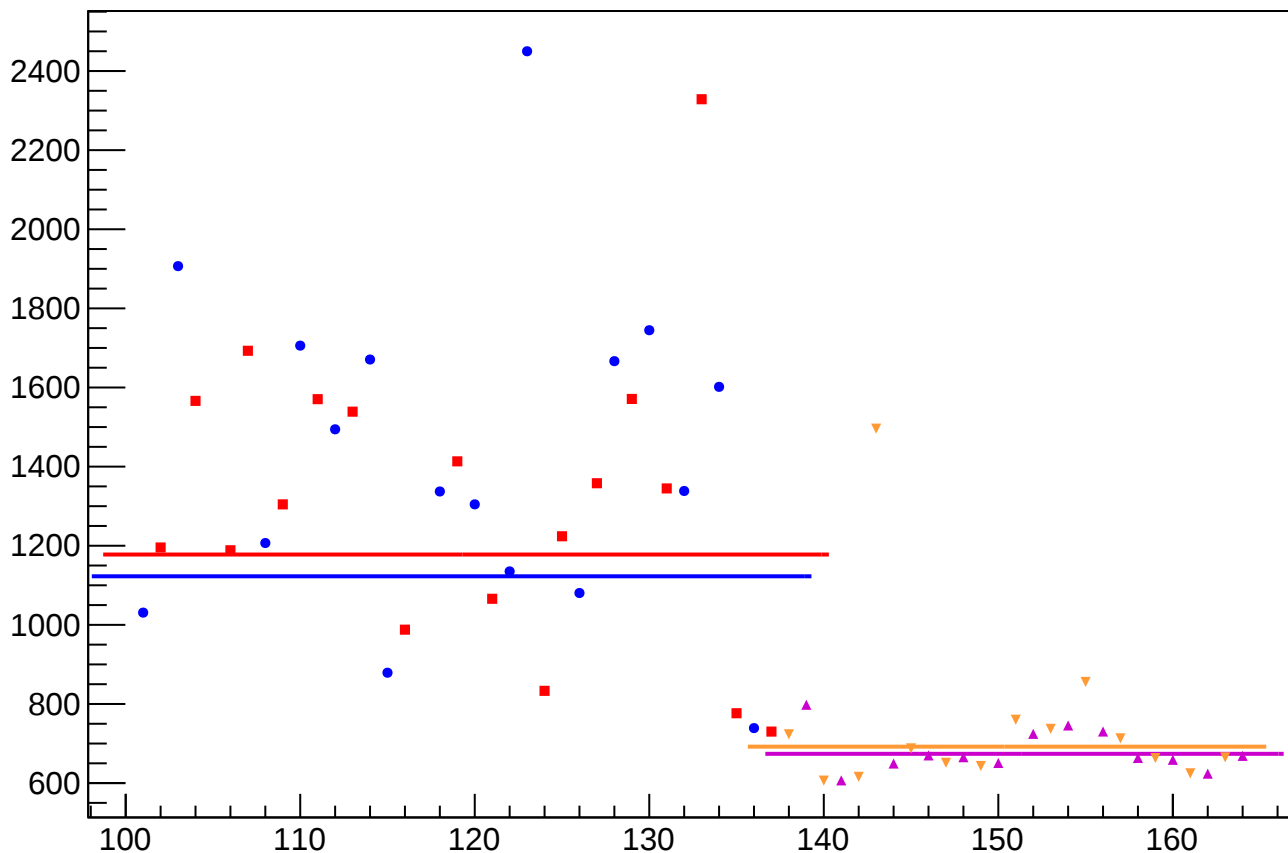
Left In: 180.406 $\pm$ 209.647  $\chi^2$ /NDF:5.9/12

+ sign 952.163 $\pm$ 194.599  $\chi^2$ /NDF: 54.0/30

All: 559.928 $\pm$ 136.344  $\chi^2$ /NDF: 81.7/61

- sign 181.720 $\pm$ 191.088  $\chi^2$ /NDF: 19.8/30

# 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: 692.107 $\pm$ 0.152  $\chi^2$ /NDF: 608818.0/13

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

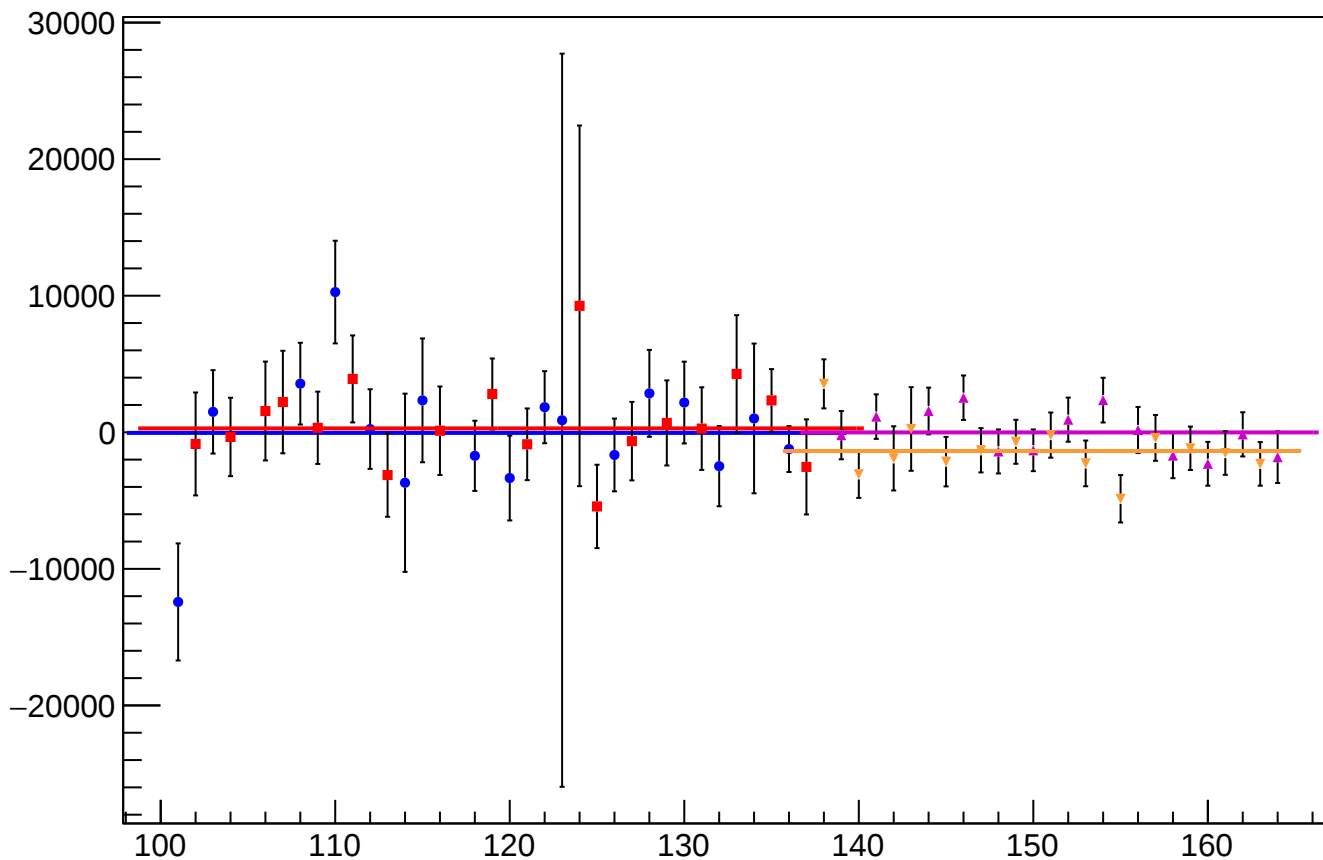
Left In: 673.993 $\pm$ 0.148  $\chi^2$ /NDF: 107861.2/12

+ sign 770.594 $\pm$ 0.138  $\chi^2$ /NDF: 3256669.1/30

All: 764.815 $\pm$ 0.096  $\chi^2$ /NDF: 6344063.3/61

- sign 759.242 $\pm$ 0.135  $\chi^2$ /NDF: 3083929.4/30

# 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:  $-1369.689 \pm 466.615$   $\chi^2/\text{NDF}$ : 14.7/13

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

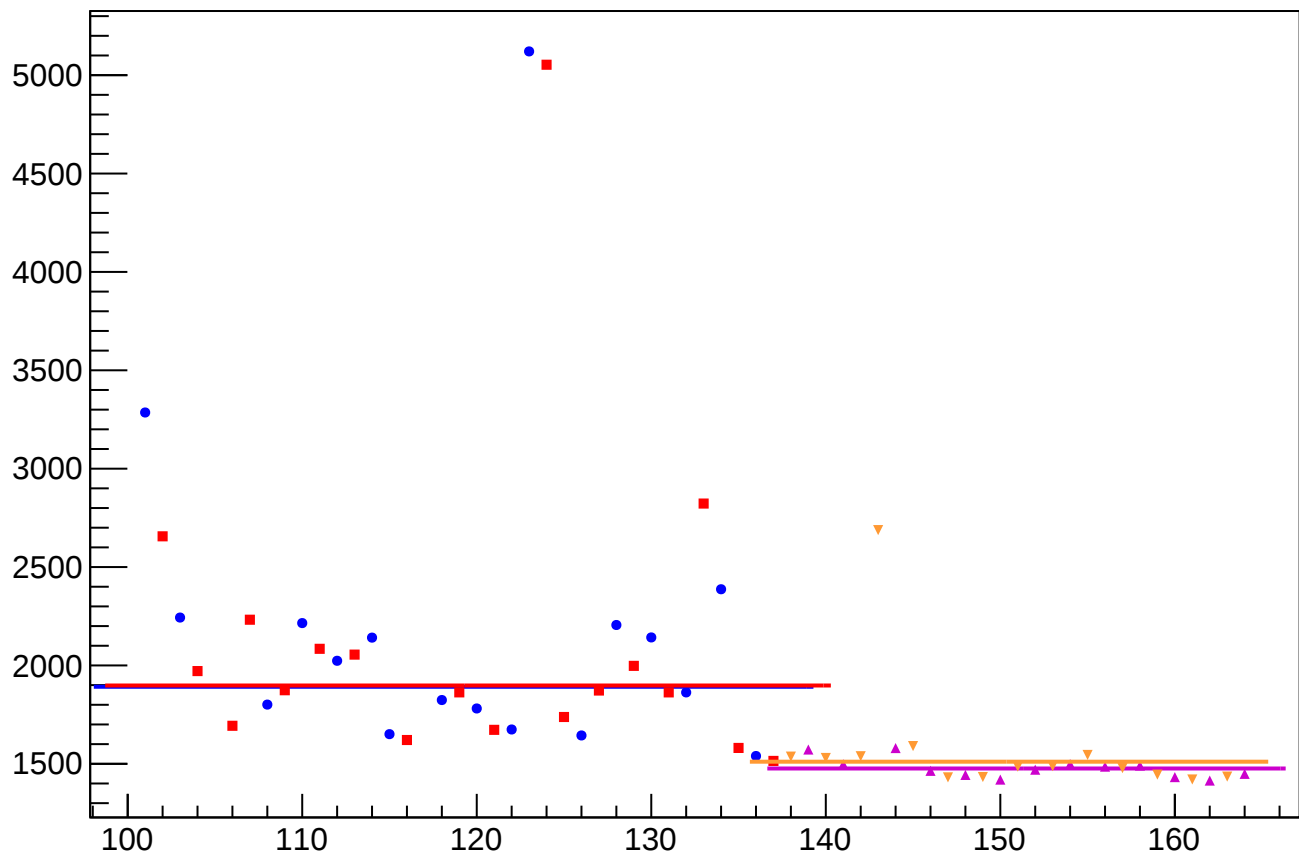
Left In:  $-9.386 \pm 458.630$   $\chi^2/\text{NDF}$ : 11.7/12

+ sign  $-998.126 \pm 395.838$   $\chi^2/\text{NDF}$ : 40.2/30

All:  $-453.362 \pm 277.506$   $\chi^2/\text{NDF}$ : 66.4/61

- sign  $73.155 \pm 389.153$   $\chi^2/\text{NDF}$ : 22.5/30

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



Right In: 1891.668+/-0.529  $\chi^2/\text{NDF}$ : 469088.3/16

Left Out: 1510.766+/-0.330  $\chi^2/\text{NDF}$ : 326398.7/13

Right Out: 1898.010+/-0.520  $\chi^2/\text{NDF}$ : 423694.9/17

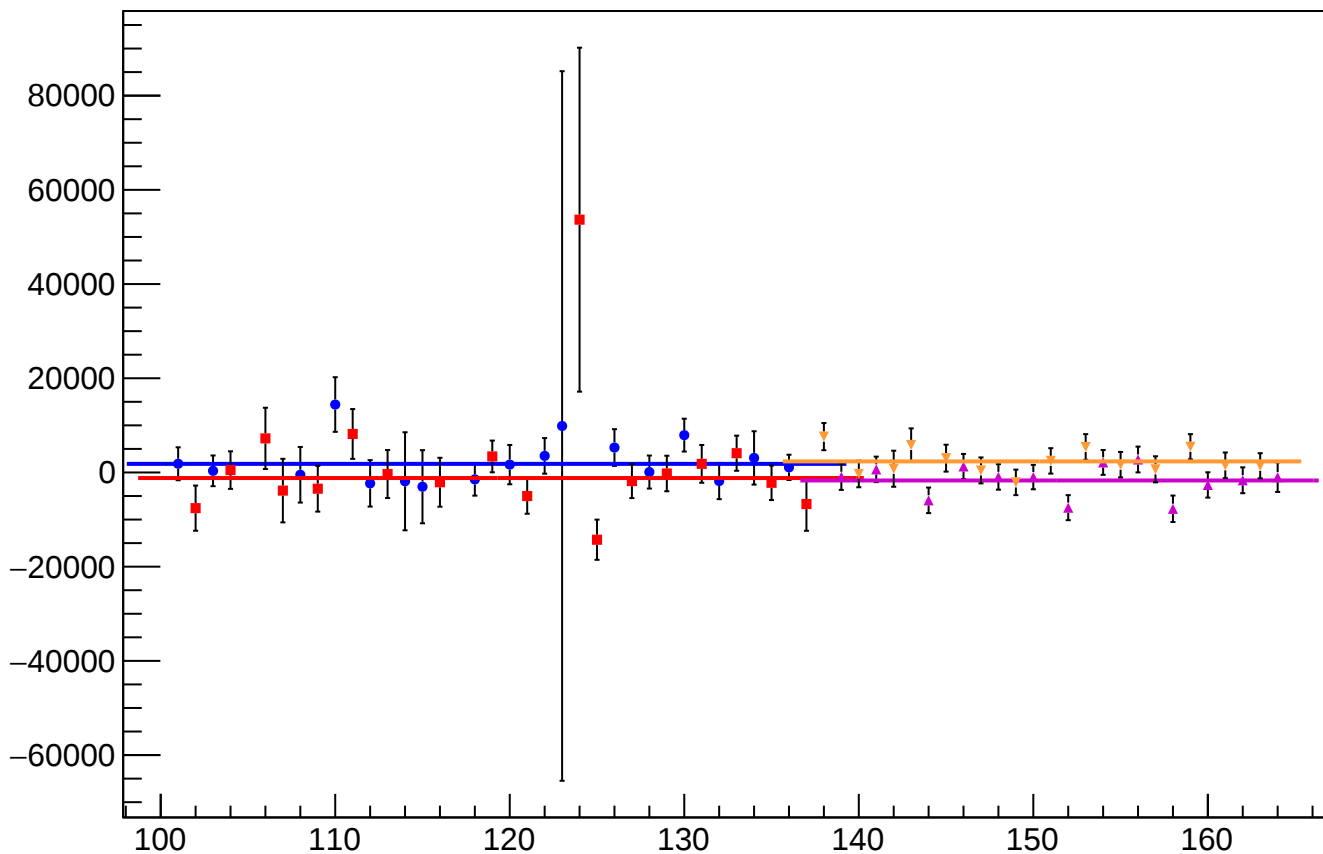
Left In: 1476.177+/-0.324  $\chi^2/\text{NDF}$ : 22741.0/12

+ sign 1617.555+/-0.280  $\chi^2/\text{NDF}$ : 1169126.5/30

All: 1605.732+/-0.196  $\chi^2/\text{NDF}$ : 2092875.2/63

- sign 1594.305+/-0.275  $\chi^2/\text{NDF}$ : 920239.9/30

# dit\_asym\_atl1\_mean vs Slug



Right In: 1825.042+/-1010.167  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 2347.123+/-757.824  $\chi^2/\text{NDF}$ : 11.9/13

Right Out: -1182.804+/-1049.924  $\chi^2/\text{NDF}$ : 25.5/17

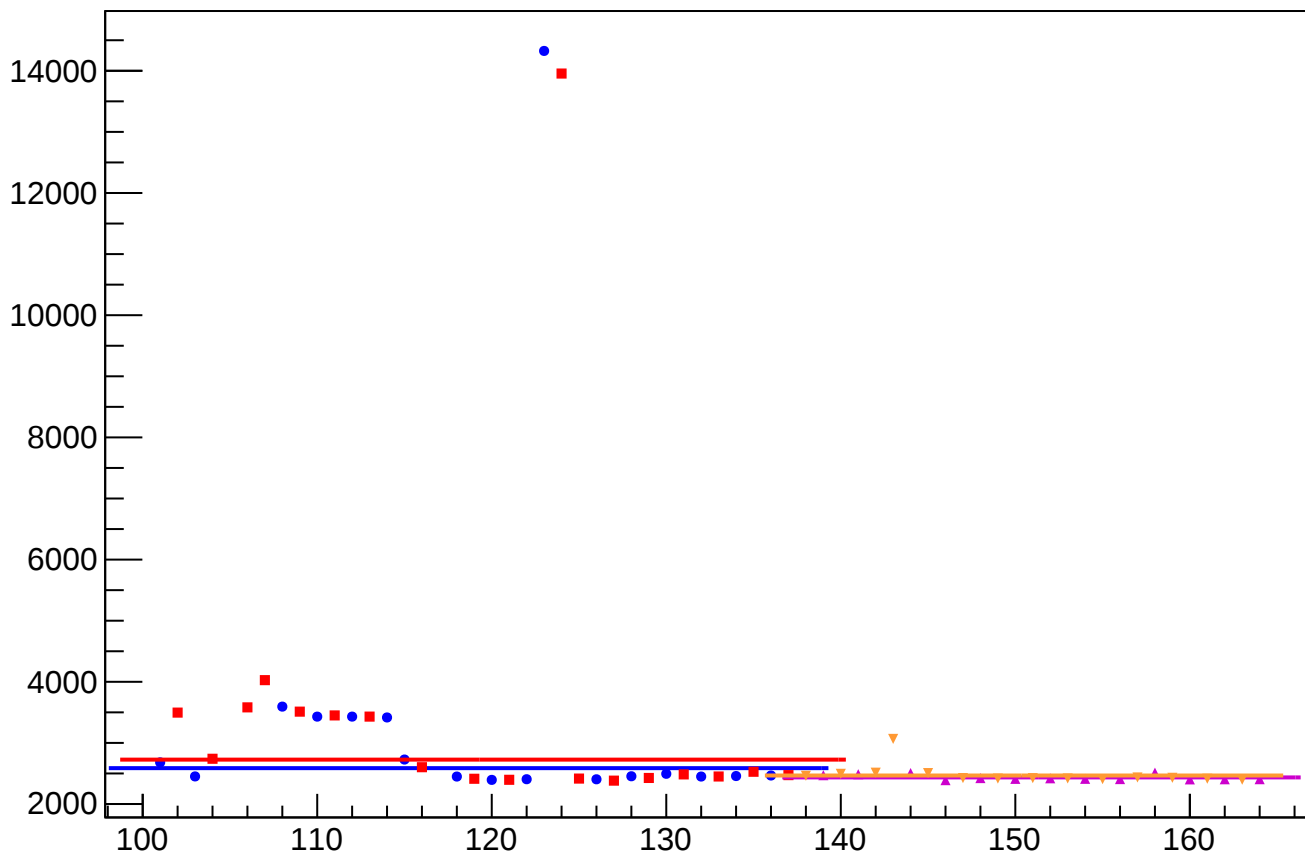
Left In: -1702.055+/-756.637  $\chi^2/\text{NDF}$ : 18.9/12

+ sign 2159.111+/-606.202  $\chi^2/\text{NDF}$ : 24.6/30

All: 340.350+/-431.326  $\chi^2/\text{NDF}$ : 87.4/61

- sign -1524.563+/-613.845  $\chi^2/\text{NDF}$ : 44.5/30

# dit\_asym\_atl1\_rms vs Slug



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

Left Out:  $2466.591 \pm 0.536$   $\chi^2/\text{NDF}$ : 64751.8/13

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

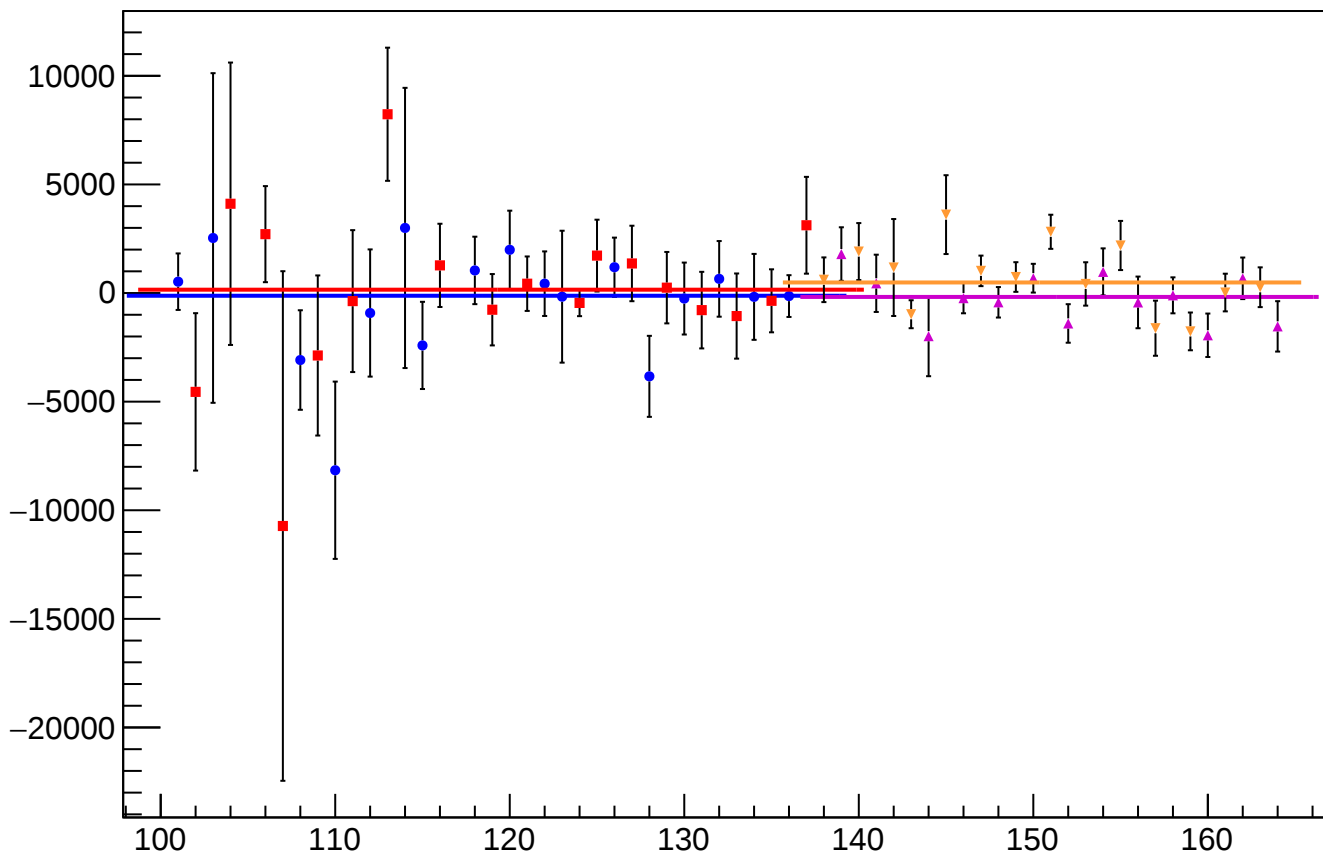
Left In:  $2435.241 \pm 0.535$   $\chi^2/\text{NDF}$ : 5894.2/12

+ sign  $2509.945 \pm 0.429$   $\chi^2/\text{NDF}$ : 337040.6/30

All:  $2522.210 \pm 0.305$   $\chi^2/\text{NDF}$ : 1026714.3/63

- sign  $2534.785 \pm 0.434$   $\chi^2/\text{NDF}$ : 688015.6/30

# asym\_atl1\_correction\_mean vs Slug



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

Left Out:  $487.031 \pm 246.282$   $\chi^2/\text{NDF}$ : 31.0/13

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

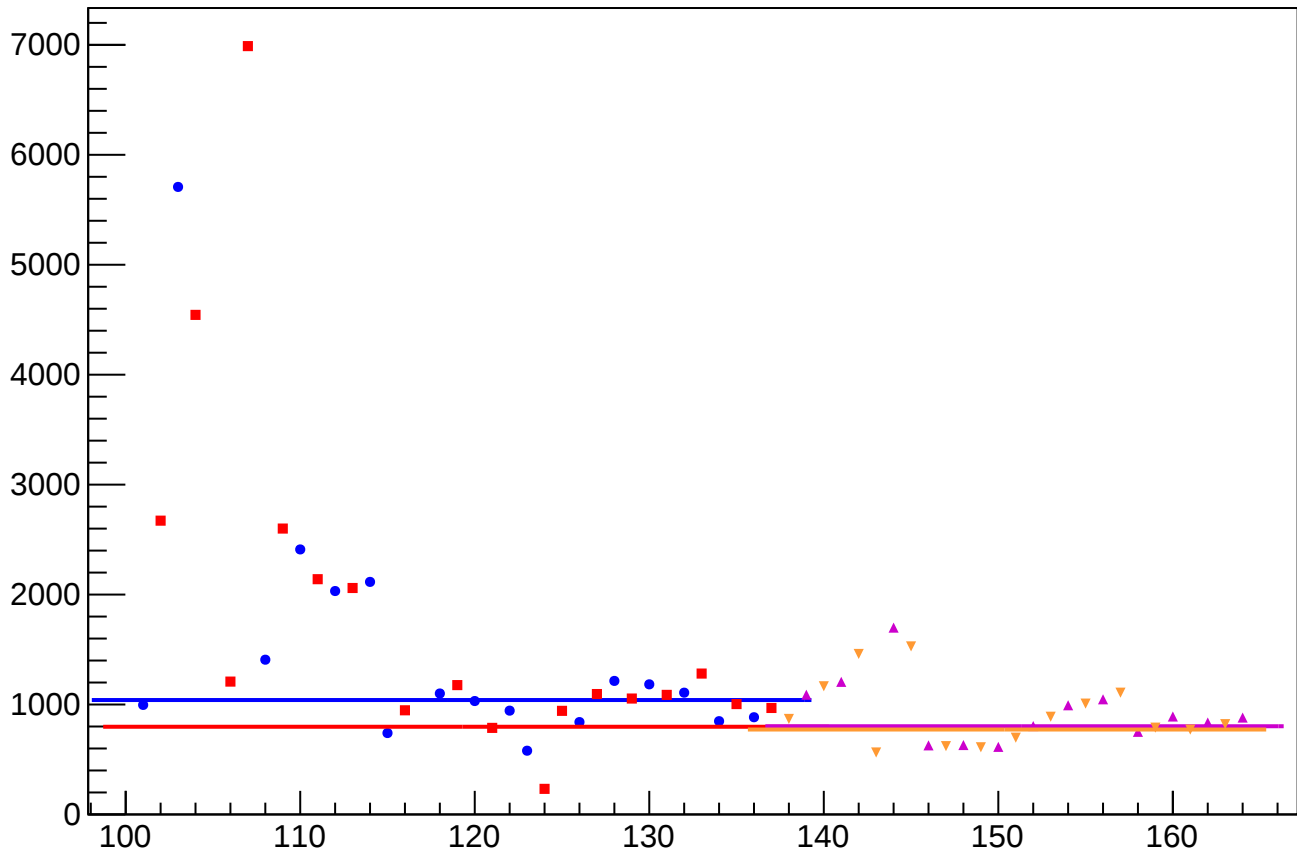
Left In:  $-178.749 \pm 257.985$   $\chi^2/\text{NDF}$ : 13.9/12

+ sign  $336.384 \pm 213.804$   $\chi^2/\text{NDF}$ : 47.2/30

All:  $131.035 \pm 151.112$   $\chi^2/\text{NDF}$ : 81.1/61

- sign  $-73.934 \pm 213.606$   $\chi^2/\text{NDF}$ : 32.0/30

# asym\_atl1\_correction\_rms vs Slug



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

Left Out: 772.520 $\pm$ 0.174  $\chi^2$ /NDF:1426819.4/13

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

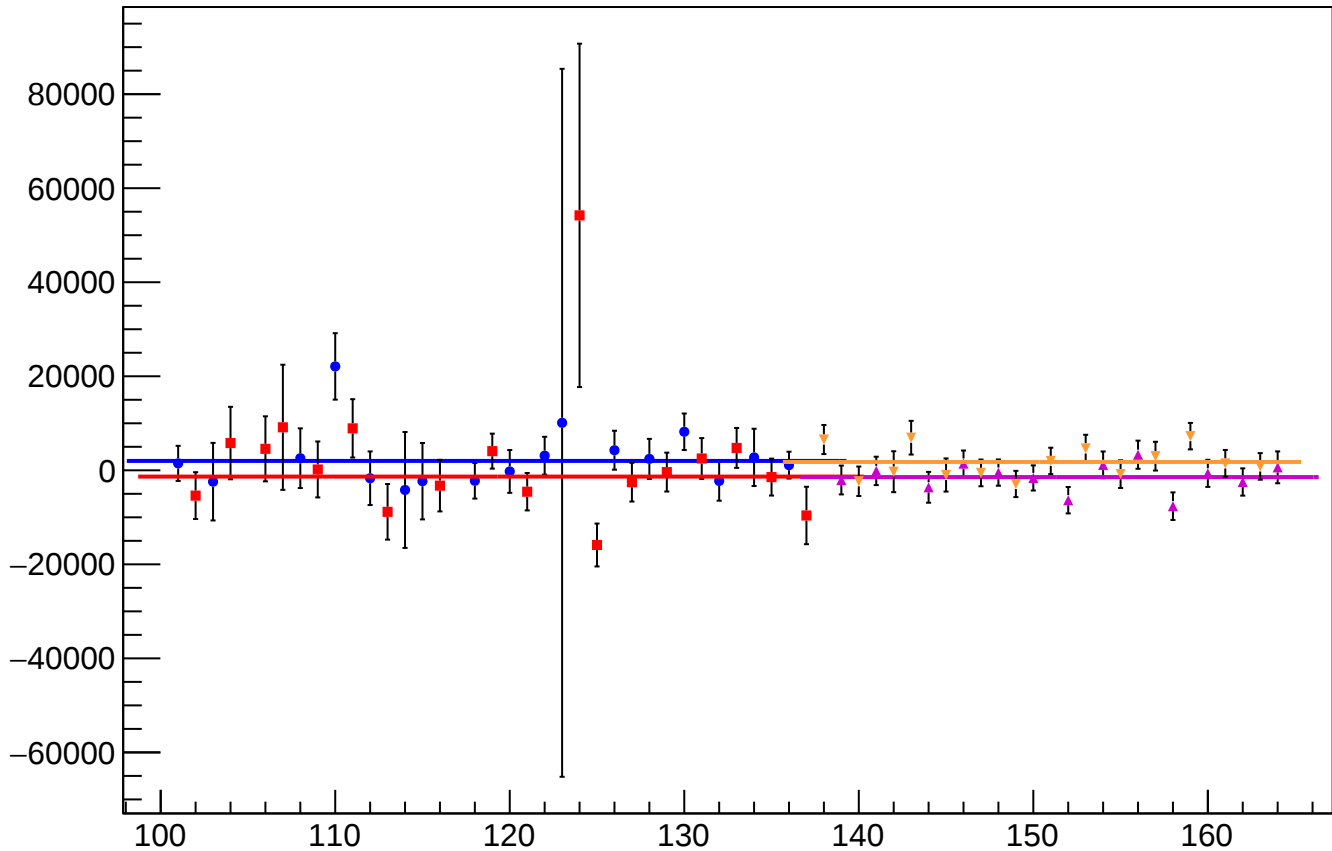
Left In: 802.411 $\pm$ 0.182  $\chi^2$ /NDF:1355018.2/12

+ sign 838.602 $\pm$ 0.151  $\chi^2$ /NDF: 3584338.5/30

All: 819.754 $\pm$ 0.107  $\chi^2$ /NDF: 10144954.3/63

- sign 800.940 $\pm$ 0.151  $\chi^2$ /NDF: 6529557.1/30

# asym\_atl1\_mean vs Slug



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

Left Out: 1775.726+/-813.549  $\chi^2/\text{NDF}$ : 16.4/13

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

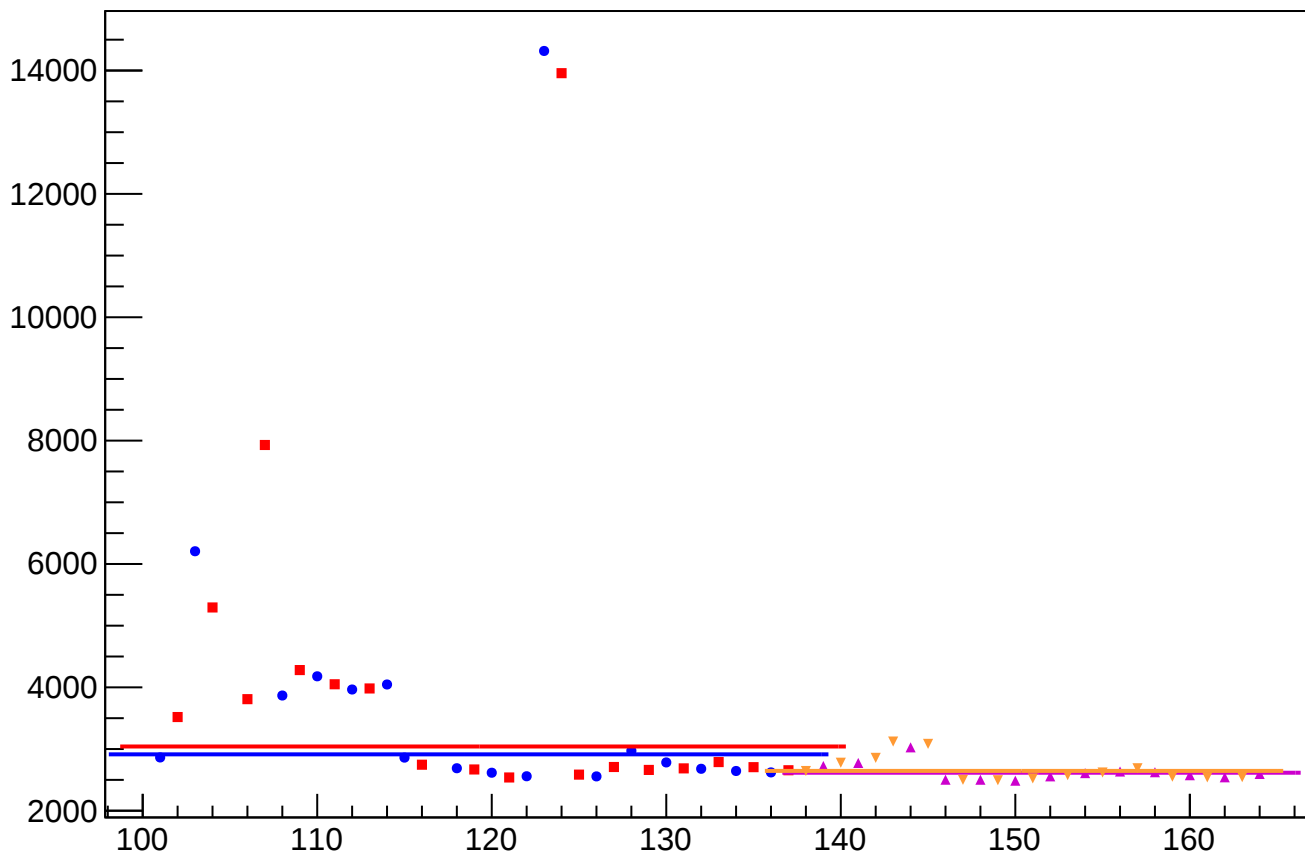
Left In: -1438.813+/-813.758  $\chi^2/\text{NDF}$ : 13.3/12

+ sign 1848.854+/-665.127  $\chi^2/\text{NDF}$ : 31.3/30

All: 238.903+/-472.862  $\chi^2/\text{NDF}$ : 83.9/61

- sign -1406.393+/-672.388  $\chi^2/\text{NDF}$ : 40.8/30

# asym\_atl1\_rms vs Slug



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

Left Out: 2645.474+/-0.575  $\chi^2/\text{NDF}$ :98423.7/13

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

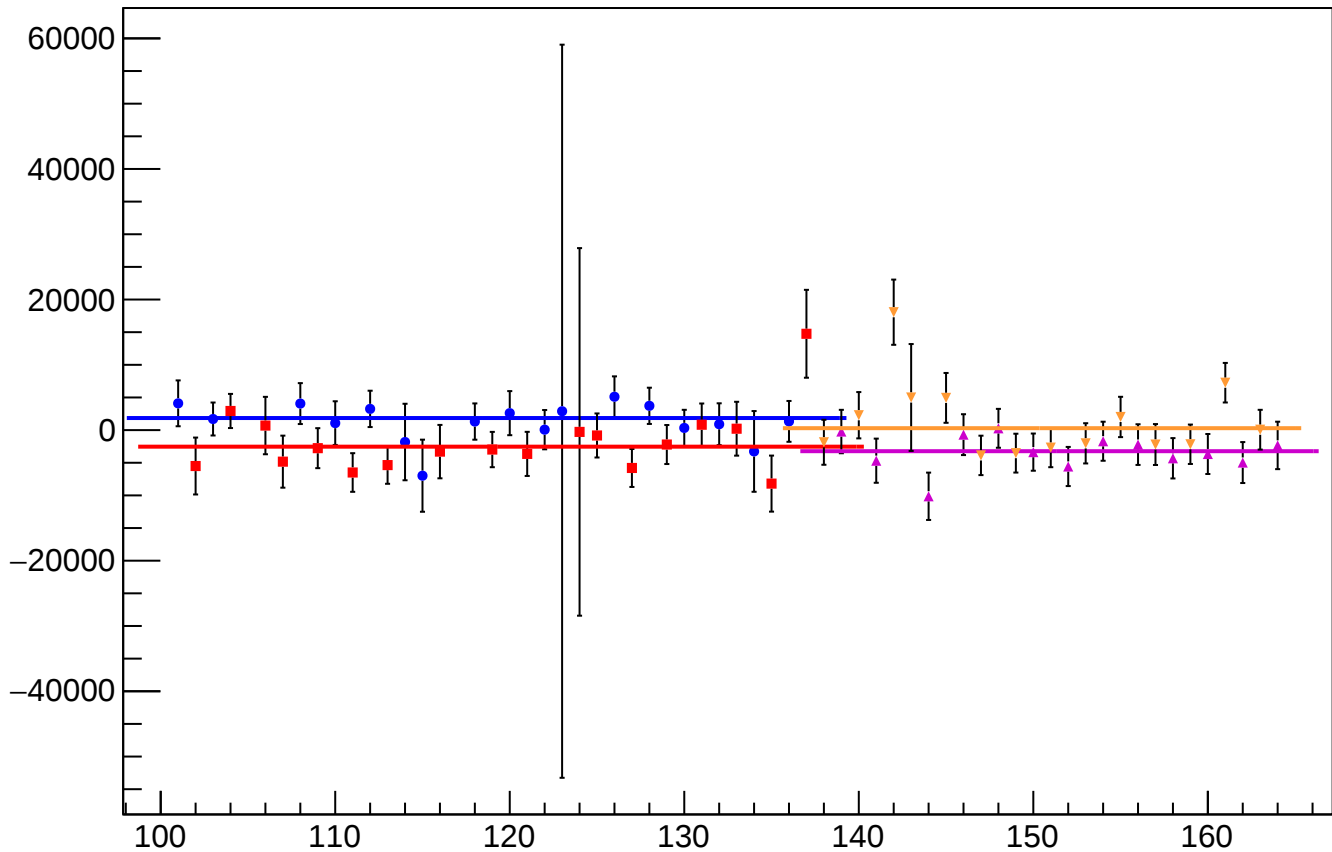
Left In: 2615.739+/-0.575  $\chi^2/\text{NDF}$ :53530.5/12

+ sign 2734.474+/-0.470  $\chi^2/\text{NDF}$ : 809591.6/30

All: 2742.515+/-0.334  $\chi^2/\text{NDF}$ : 2040774.1/63

- sign 2750.733+/-0.475  $\chi^2/\text{NDF}$ : 1230591.4/30

# dit\_asym\_atl2\_mean vs Slug



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

Left Out:  $295.867 \pm 890.830$   $\chi^2/\text{NDF}$ : 27.2/13

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

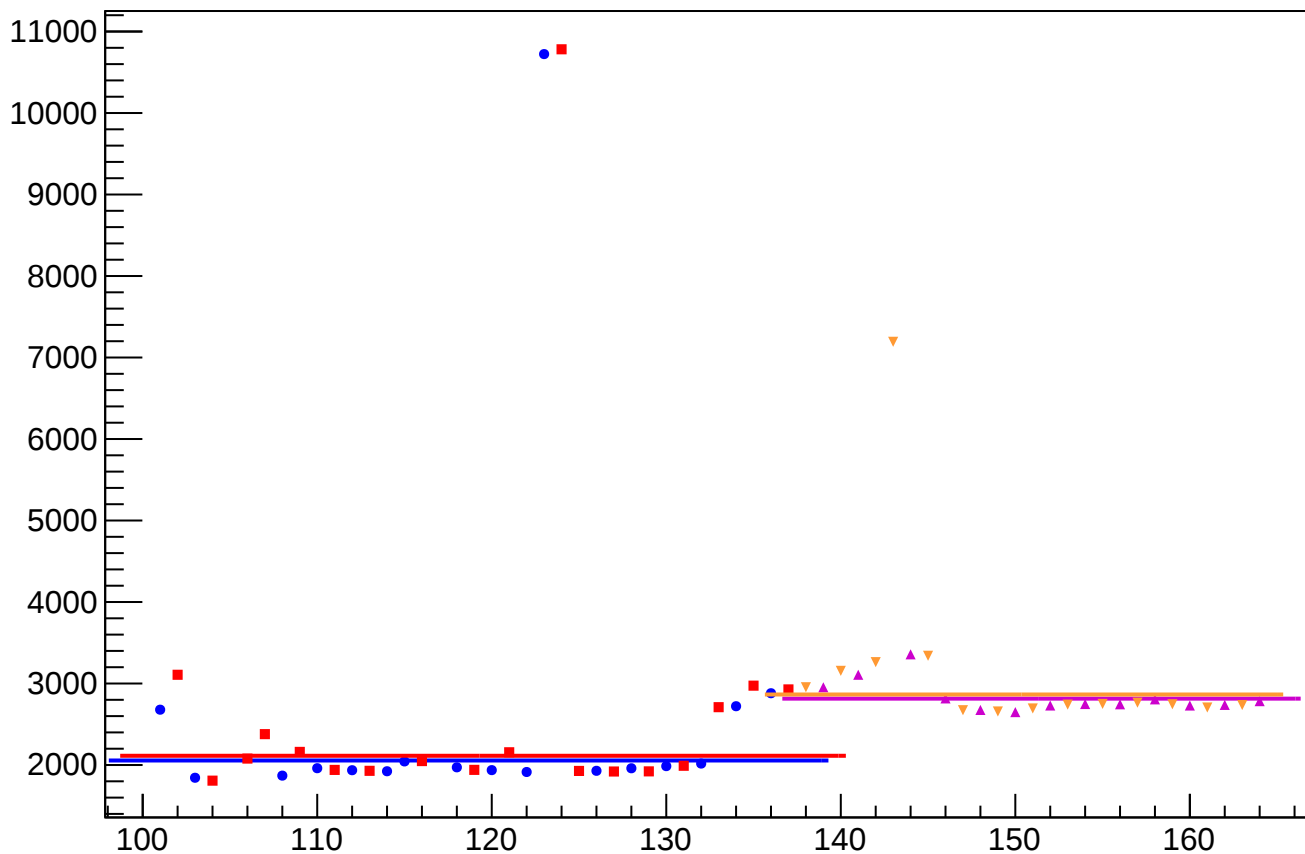
Left In:  $-3228.591 \pm 874.705$   $\chi^2/\text{NDF}$ : 8.2/12

+ sign  $1149.762 \pm 597.984$   $\chi^2/\text{NDF}$ : 36.1/30

All:  $-854.783 \pm 422.833$   $\chi^2/\text{NDF}$ : 87.1/61

- sign  $-2859.231 \pm 597.969$   $\chi^2/\text{NDF}$ : 28.5/30

# dit\_asym\_atl2\_rms vs Slug



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

Left Out: 2865.206+/-0.630  $\chi^2/\text{NDF}$ : 662102.4/13

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

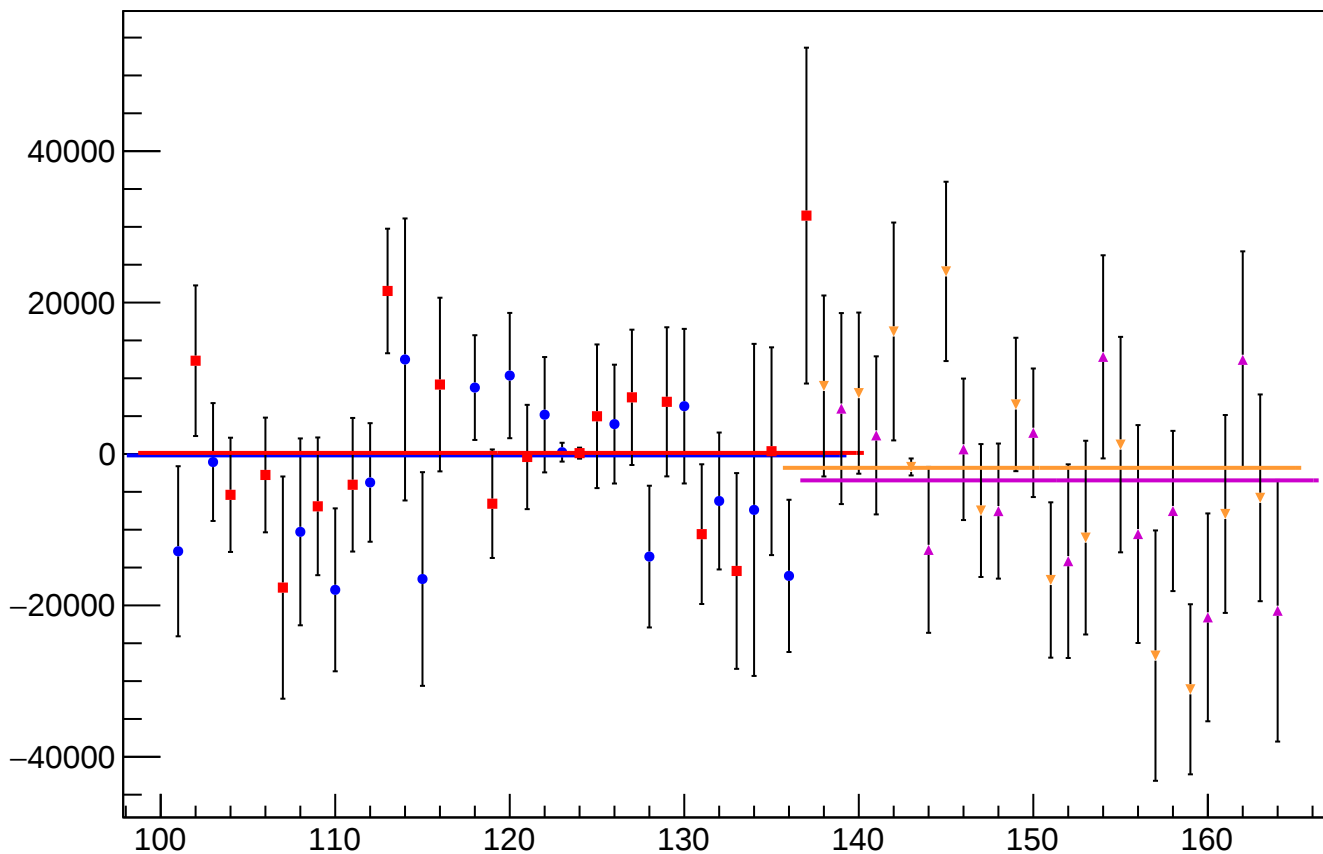
Left In: 2814.381+/-0.619  $\chi^2/\text{NDF}$ : 81004.3/12

+ sign 2420.322+/-0.423  $\chi^2/\text{NDF}$ : 1886395.8/30

All: 2430.381+/-0.299  $\chi^2/\text{NDF}$ : 3185862.6/63

- sign 2440.422+/-0.422  $\chi^2/\text{NDF}$ : 1298336.0/30

# asym\_atl2\_correction\_mean vs Slug



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

Left Out:  $-1828.756 \pm 1059.421$   $\chi^2/\text{NDF}$ : 21.4/13

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

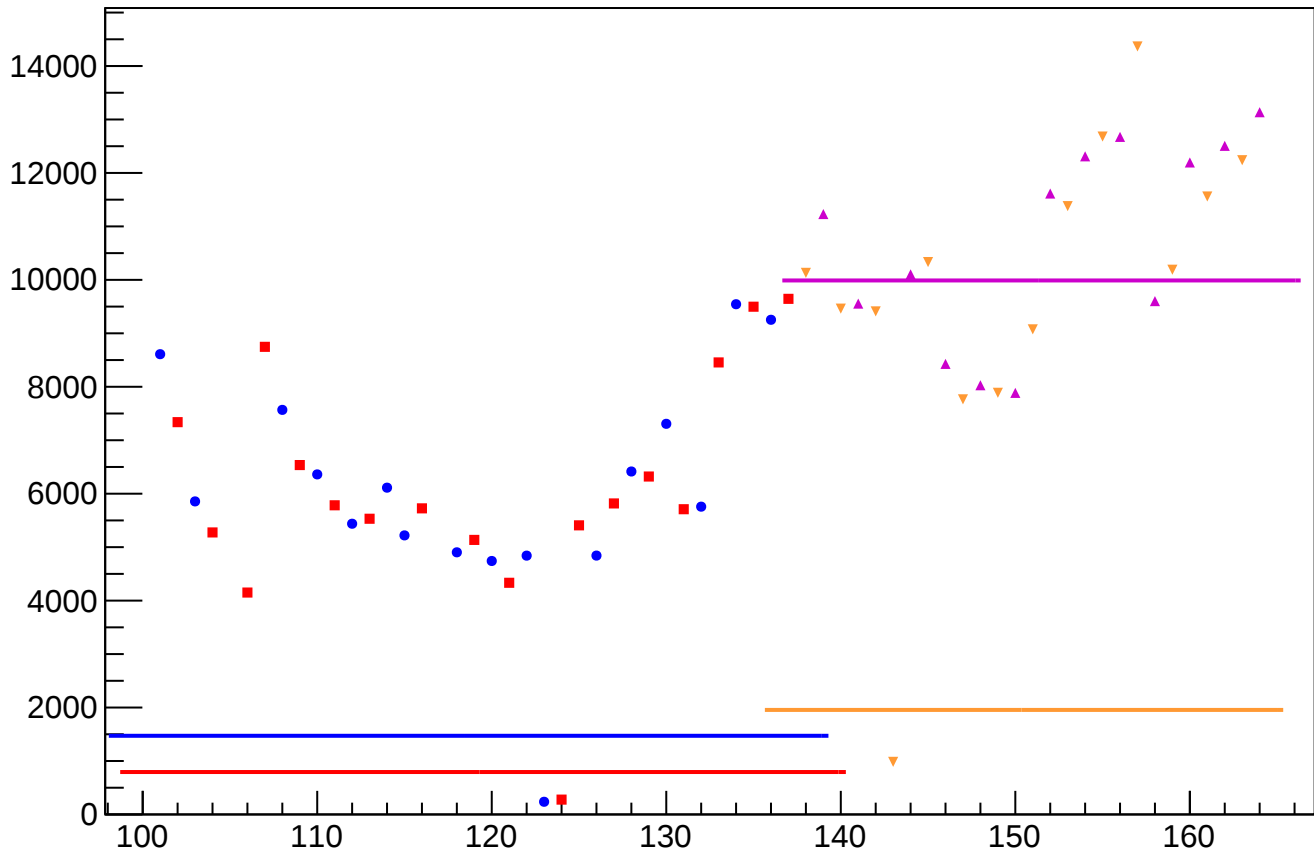
Left In:  $-3486.086 \pm 3152.270$   $\chi^2/\text{NDF}$ : 9.1/12

+ sign  $-1038.456 \pm 763.326$   $\chi^2/\text{NDF}$ : 38.9/30

All:  $-469.353 \pm 505.636$   $\chi^2/\text{NDF}$ : 69.2/61

- sign  $-24.396 \pm 674.954$   $\chi^2/\text{NDF}$ : 29.3/30

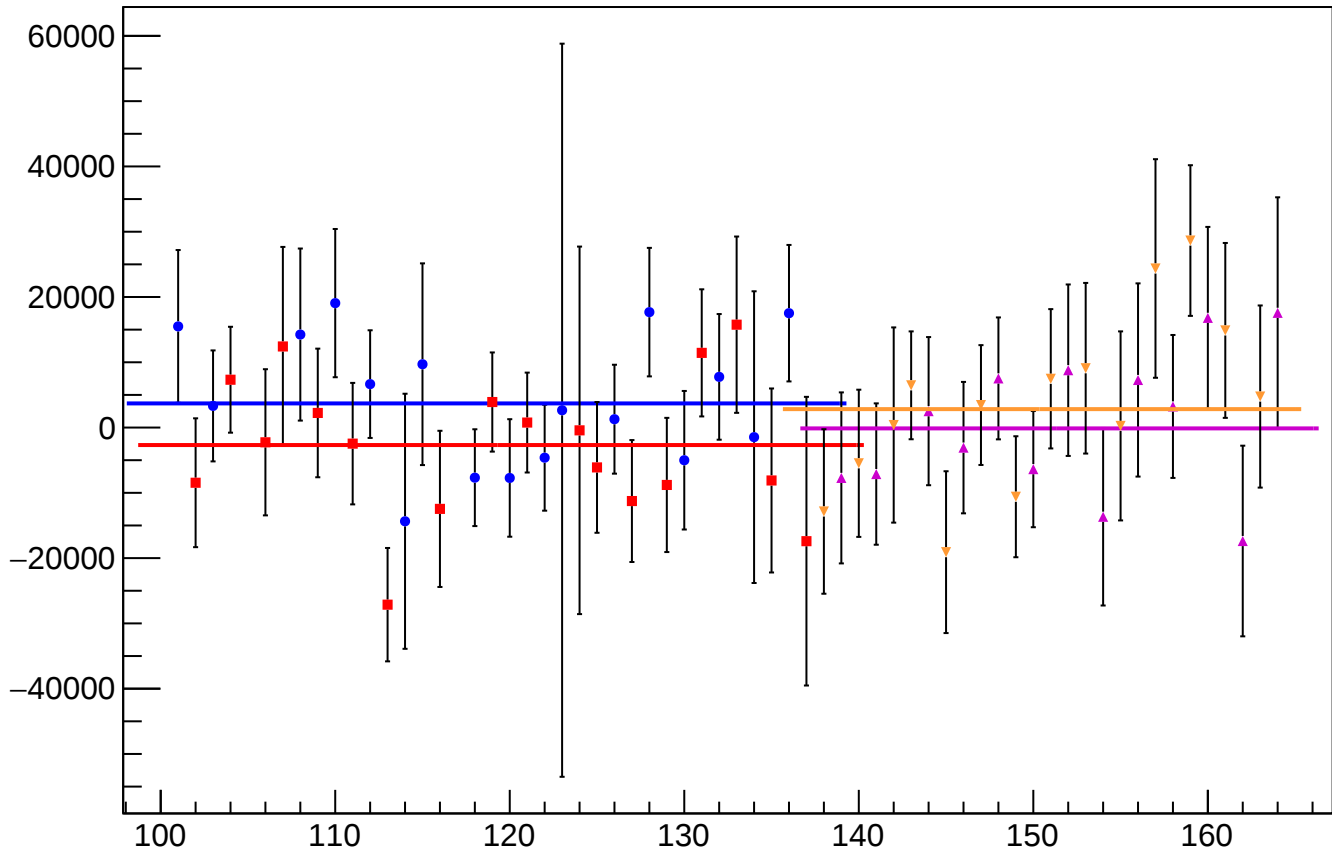
# asym\_atl2\_correction\_rms vs Slug



Right In: 1471.609 $\pm$ 0.778  $\chi^2$ /NDF: 9788255.4/16  
 Left Out: 1955.424 $\pm$ 0.749  $\chi^2$ /NDF: 14350012.1/13  
 Right Out: 793.659 $\pm$ 0.489  $\chi^2$ /NDF: 11422584.5/17  
 Left In: 9988.924 $\pm$ 2.229  $\chi^2$ /NDF: 642410.5/12

+ sign 1722.776 $\pm$ 0.540  $\chi^2$ /NDF: 24338840.5/30  
 All: 1437.933 $\pm$ 0.358  $\chi^2$ /NDF: 53137984.5/6  
 - sign 1215.226 $\pm$ 0.477  $\chi^2$ /NDF: 28302900.0/30

# asym\_atl2\_mean vs Slug



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

Left Out: 2823.661+/-3093.374  $\chi^2/\text{NDF}$ : 15.5/13

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

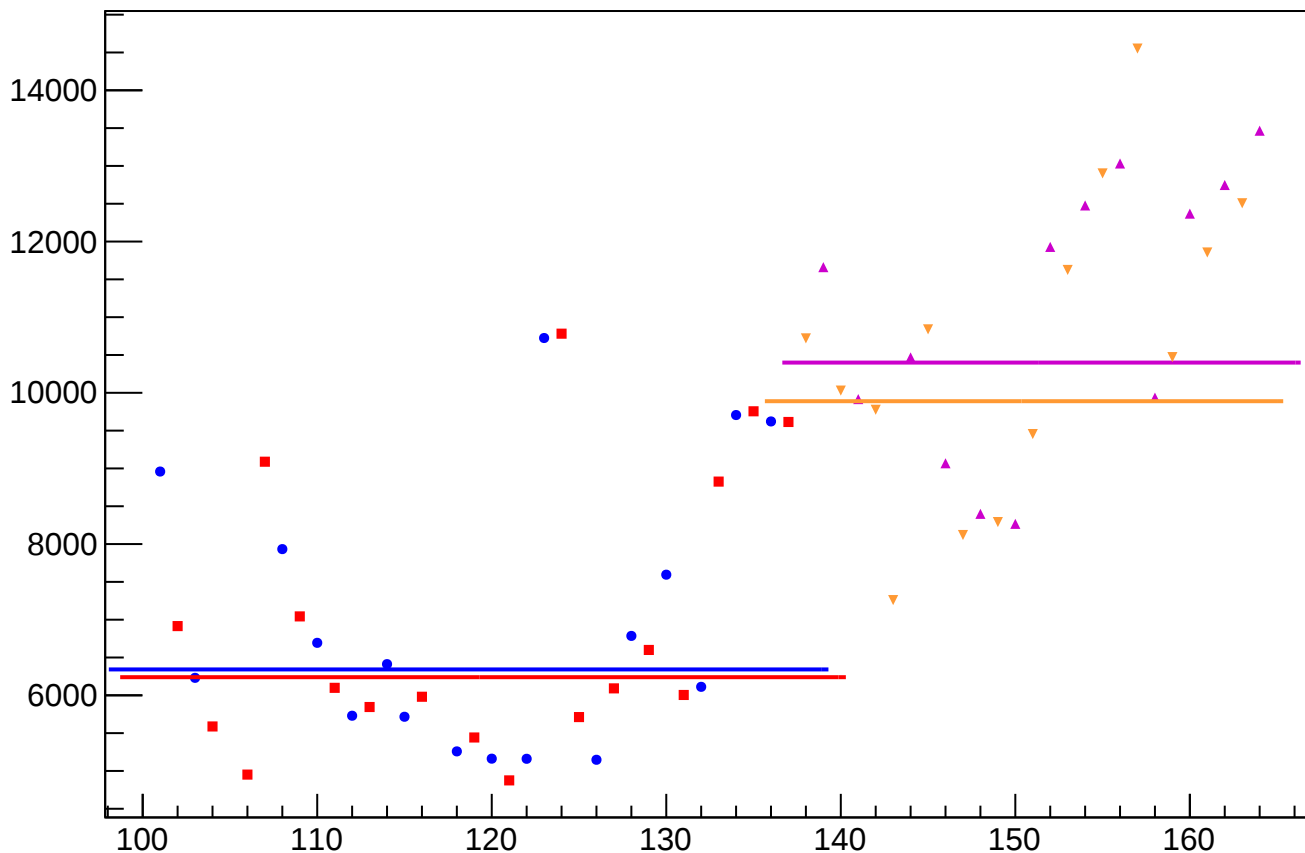
Left In: -129.574+/-3274.978  $\chi^2/\text{NDF}$ : 7.7/12

+ sign 3349.823+/-1952.799  $\chi^2/\text{NDF}$ : 29.9/30

All: 784.885+/-1380.122  $\chi^2/\text{NDF}$ : 60.0/61

- sign -1774.744+/-1950.777  $\chi^2/\text{NDF}$ : 26.6/30

# asym\_atl2\_rms vs Slug



Right In:  $6342.327 \pm 1.780$   $\chi^2/\text{NDF}$ : 593668.9/16

Left Out:  $9889.056 \pm 2.187$   $\chi^2/\text{NDF}$ : 756185.9/13

Right Out:  $6239.726 \pm 1.717$   $\chi^2/\text{NDF}$ : 529243.7/17

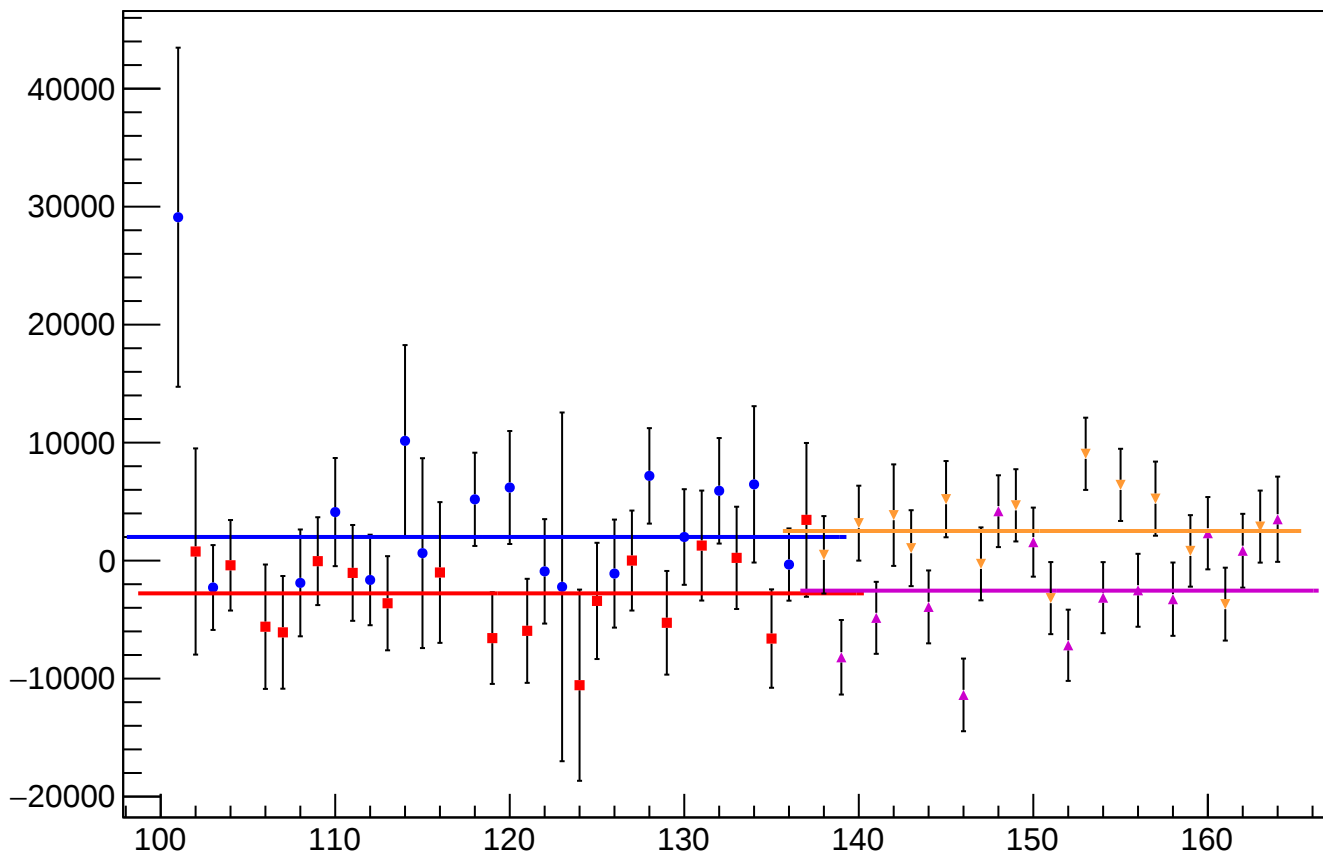
Left In:  $10399.600 \pm 2.316$   $\chi^2/\text{NDF}$ : 556528.4/12

+ sign  $7755.762 \pm 1.381$   $\chi^2/\text{NDF}$ : 2931263.3/30

All:  $7735.665 \pm 0.976$   $\chi^2/\text{NDF}$ : 6099426.1/63

- sign  $7715.611 \pm 1.379$   $\chi^2/\text{NDF}$ : 3167739.6/30

# dit\_asym\_atr1\_mean vs Slug



Right In:  $2004.589 \pm 1125.432$   $\chi^2/\text{NDF}$ : 13.7/16

Left Out:  $2510.884 \pm 847.389$   $\chi^2/\text{NDF}$ : 17.5/13

Right Out:  $-2776.042 \pm 1086.812$   $\chi^2/\text{NDF}$ : 8.3/17

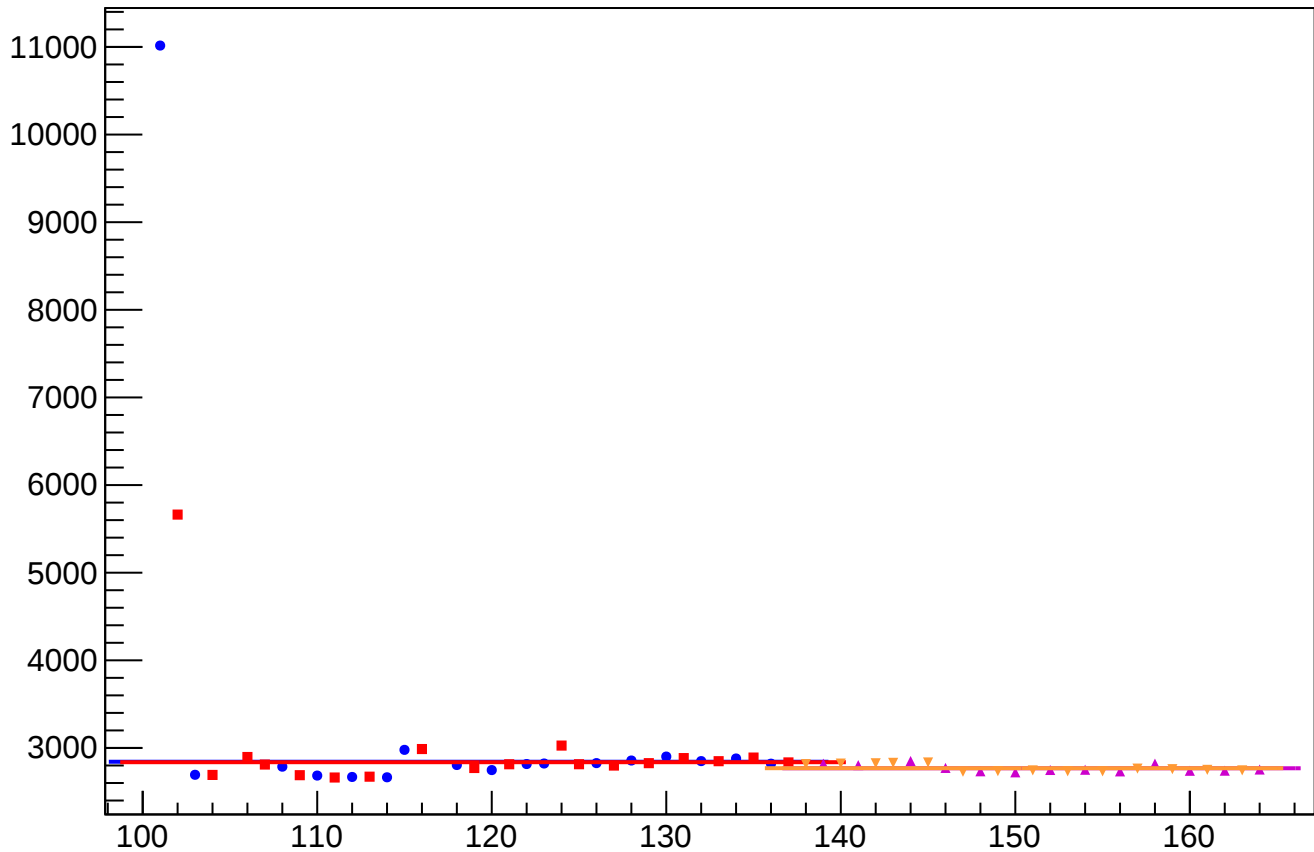
Left In:  $-2545.415 \pm 858.709$   $\chi^2/\text{NDF}$ : 28.0/12

+ sign  $2327.702 \pm 676.953$   $\chi^2/\text{NDF}$ : 31.3/30

All:  $-164.850 \pm 477.550$   $\chi^2/\text{NDF}$ : 94.7/61

- sign  $-2634.055 \pm 673.775$   $\chi^2/\text{NDF}$ : 36.4/30

# dit\_asym\_atr1\_rms vs Slug



Right In: 2842.628+/-0.796  $\chi^2/\text{NDF}$ : 660305.1/16

Left Out: 2769.039+/-0.599  $\chi^2/\text{NDF}$ : 4354.4/13

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

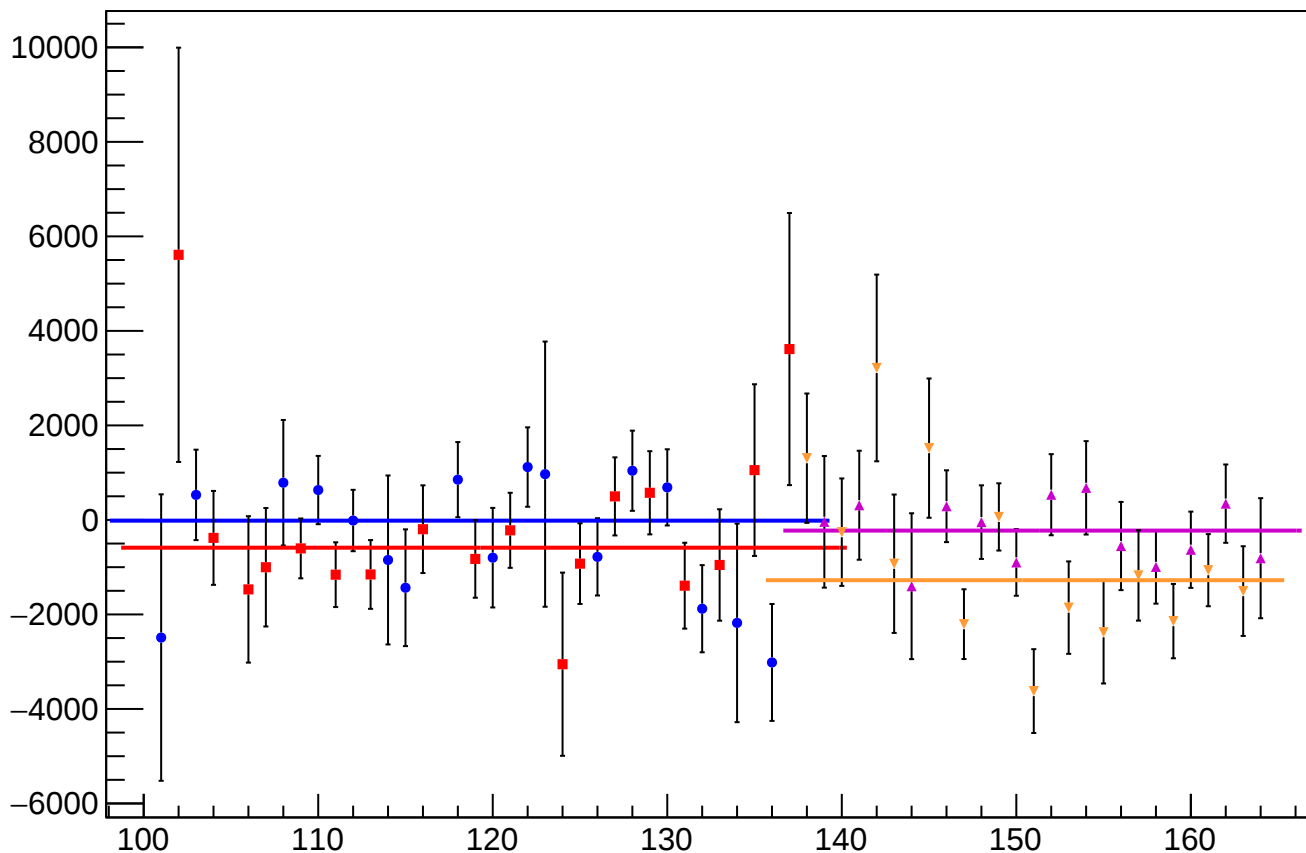
Left In: 2768.182+/-0.607  $\chi^2/\text{NDF}$ : 4376.4/12

+ sign 2795.664+/-0.479  $\chi^2/\text{NDF}$ : 670116.7/30

All: 2795.230+/-0.338  $\chi^2/\text{NDF}$ : 905916.9/61

- sign 2794.801+/-0.476  $\chi^2/\text{NDF}$ : 235798.5/30

# asym\_atr1\_correction\_mean vs Slug



Right In:  $-15.631 \pm 238.862$   $\chi^2/\text{NDF}$ : 21.6/16

Left Out:  $-1275.623 \pm 258.134$   $\chi^2/\text{NDF}$ : 28.1/13

Right Out:  $-587.609 \pm 225.811$   $\chi^2/\text{NDF}$ : 13.3/17

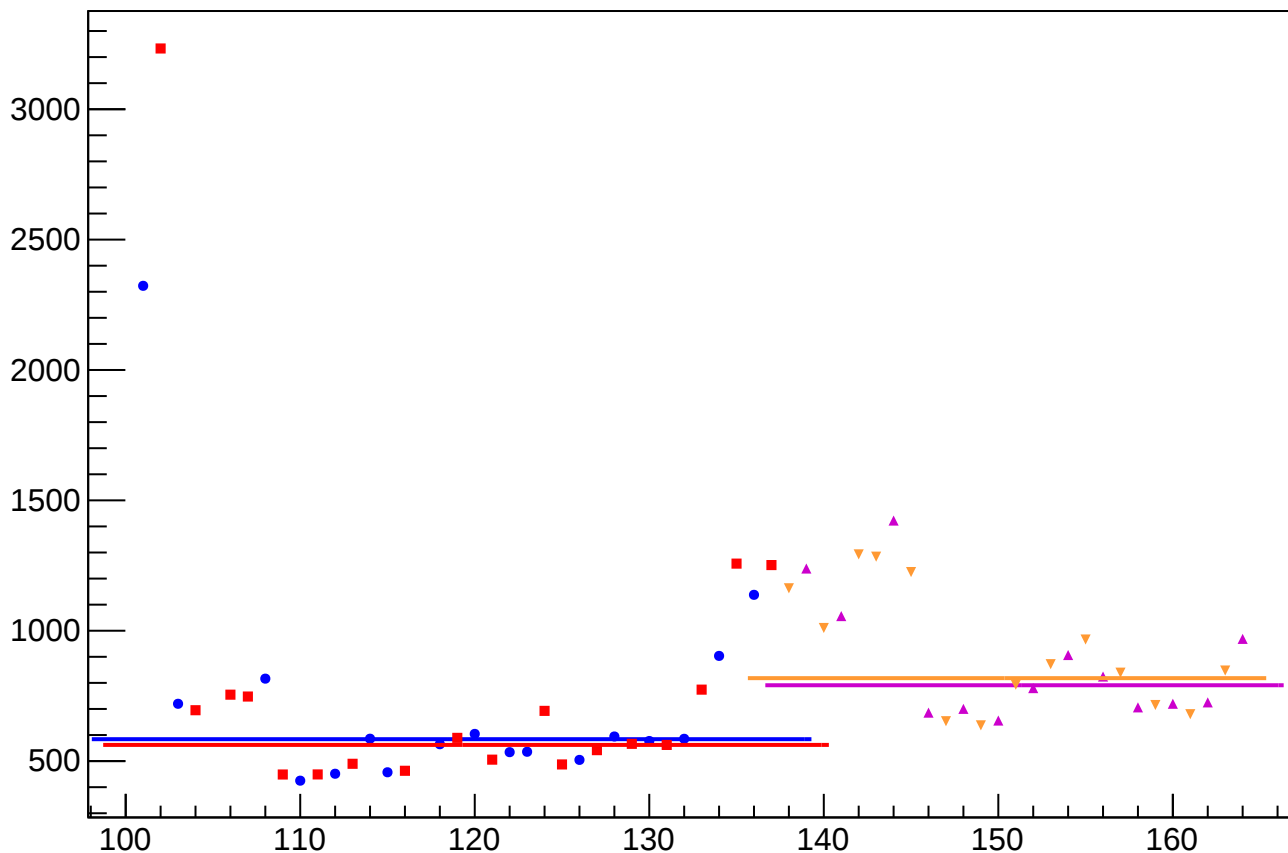
Left In:  $-225.800 \pm 251.014$   $\chi^2/\text{NDF}$ : 5.9/12

+ sign  $-596.843 \pm 175.319$   $\chi^2/\text{NDF}$ : 62.5/30

All:  $-507.602 \pm 121.253$   $\chi^2/\text{NDF}$ : 83.4/61

- sign  $-425.775 \pm 167.878$   $\chi^2/\text{NDF}$ : 20.4/30

# asym\_atr1\_correction\_rms vs Slug



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 818.142+/-0.183  $\chi^2/\text{NDF}$ : 1032094.9/13

Right Out: 562.122+/-0.160  $\chi^2/\text{NDF}$ : 1525298.9/17

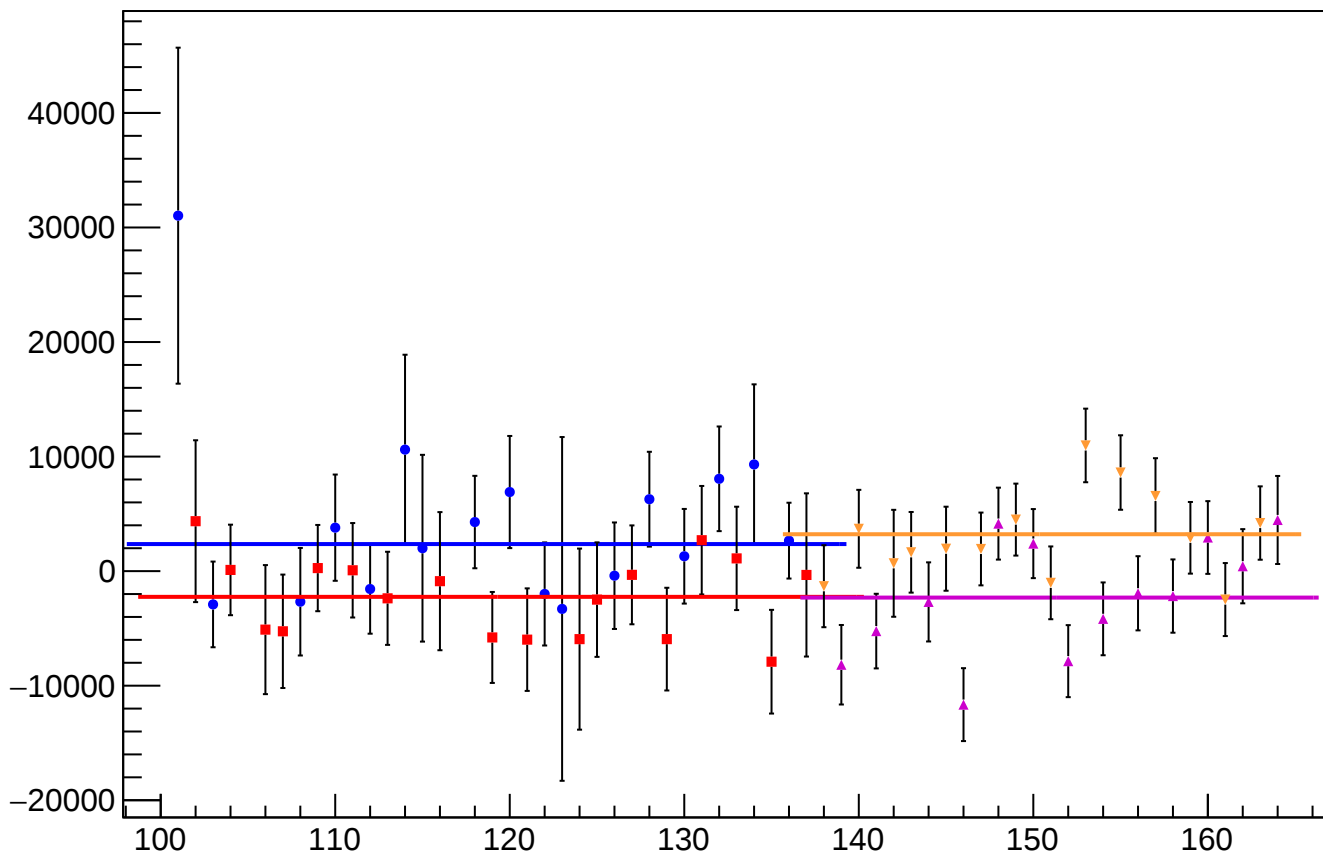
Left In: 790.932+/-0.177  $\chi^2/\text{NDF}$ : 907704.5/12

+ sign 692.035+/-0.124  $\chi^2/\text{NDF}$ : 3354753.6/30

All: 677.654+/-0.086  $\chi^2/\text{NDF}$ : 6732061.8/61

- sign 664.467+/-0.119  $\chi^2/\text{NDF}$ : 3351509.7/30

# asym\_atr1\_mean vs Slug



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 3221.033 $\pm$ 895.653  $\chi^2$ /NDF: 17.3/13

Right Out: -2245.410 $\pm$ 1111.935  $\chi^2$ /NDF: 8.5/17

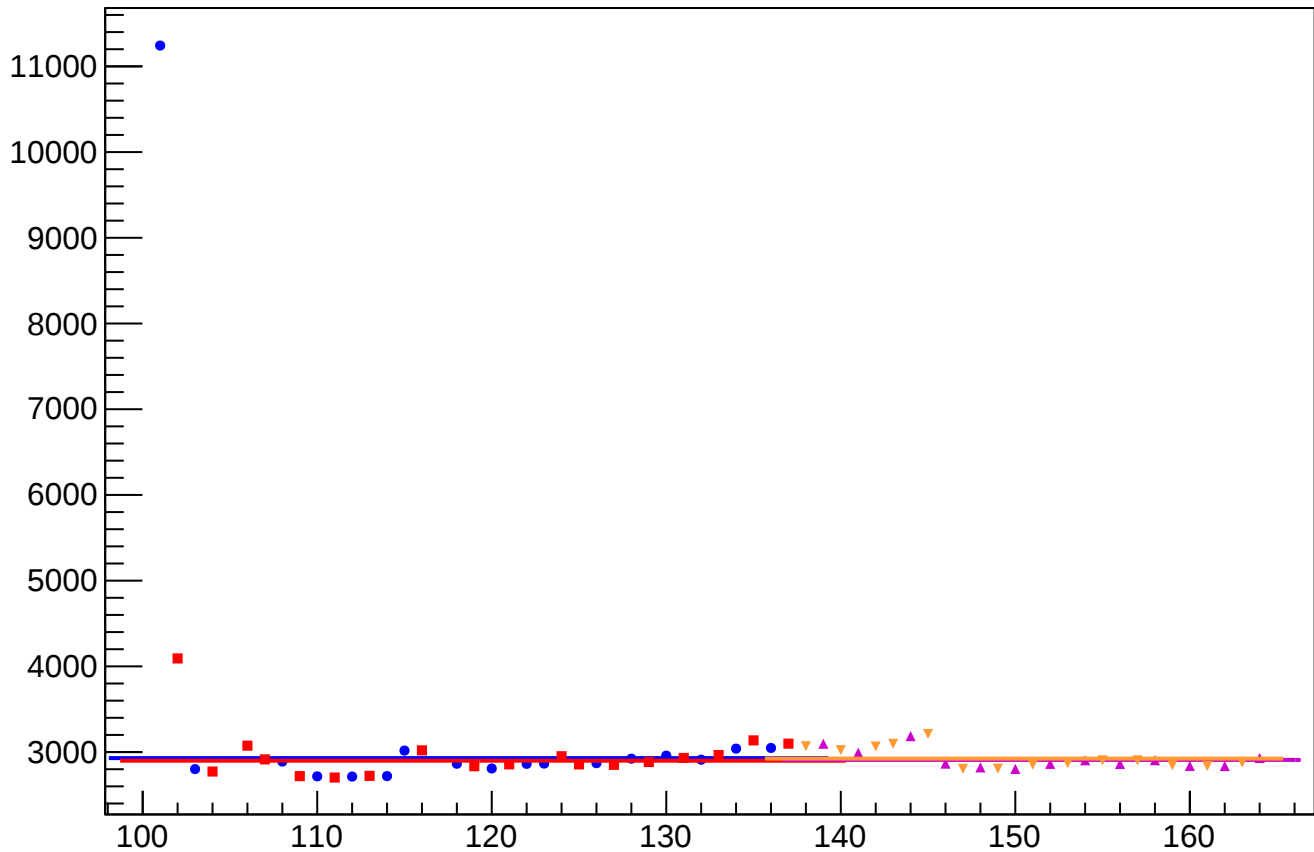
Left In: -2309.532 $\pm$ 902.837  $\chi^2$ /NDF: 29.0/12

+ sign 2900.465 $\pm$ 708.914  $\chi^2$ /NDF: 32.7/30

All: 278.707 $\pm$ 498.418  $\chi^2$ /NDF: 97.3/61

- sign -2284.055 $\pm$ 700.893  $\chi^2$ /NDF: 37.5/30

# asym\_atr1\_rms vs Slug



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2924.238+/-0.633  $\chi^2/\text{NDF}$ : 34368.1/13

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

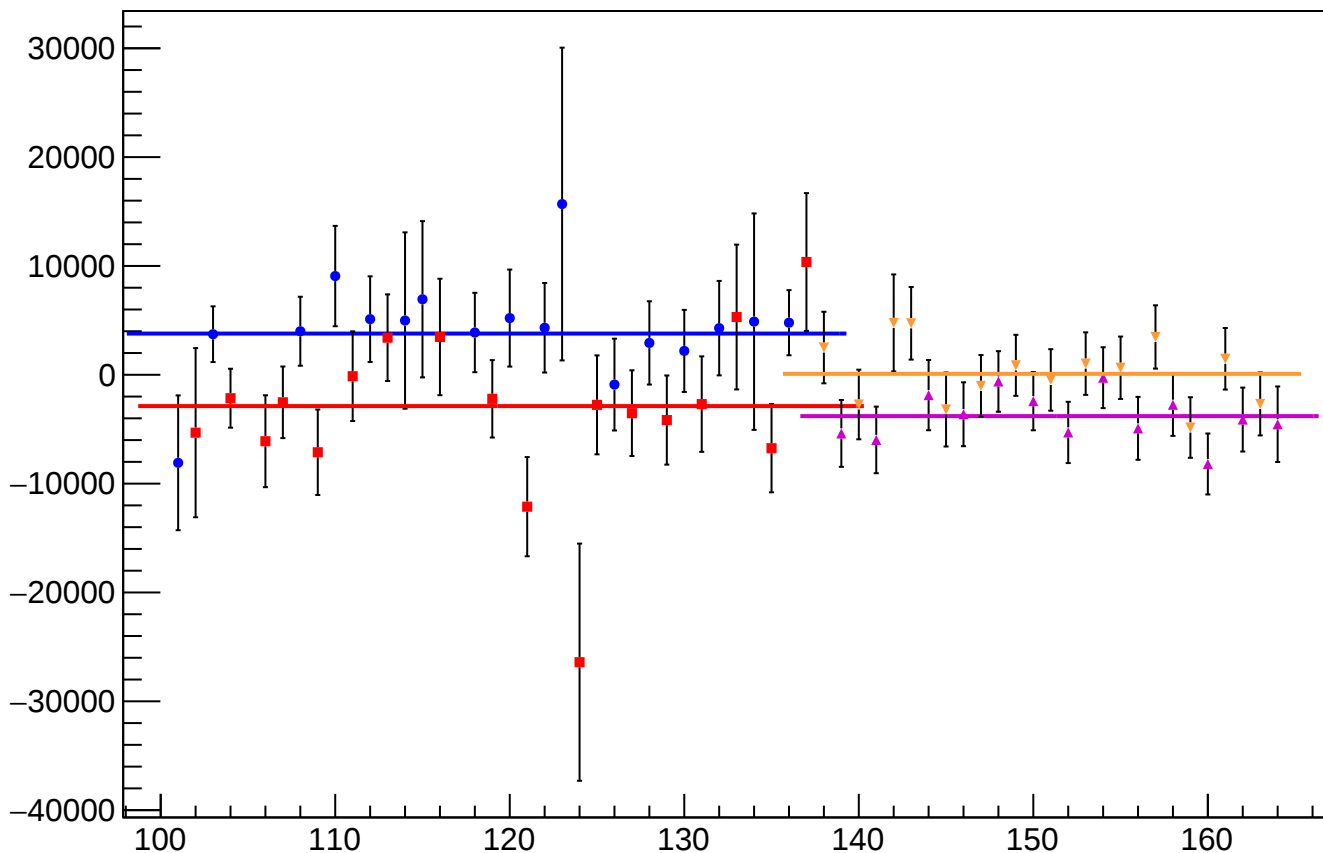
Left In: 2908.756+/-0.638  $\chi^2/\text{NDF}$ : 27409.2/12

+ sign 2926.261+/-0.501  $\chi^2/\text{NDF}$ : 697024.4/30

All: 2915.535+/-0.352  $\chi^2/\text{NDF}$ : 808966.8/61

- sign 2905.051+/-0.496  $\chi^2/\text{NDF}$ : 111037.1/30

# dit\_asym\_atr2\_mean vs Slug



Right In: 3787.840+/-1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 86.956+/-808.700  $\chi^2/\text{NDF}$ : 11.4/13

Right Out: -2874.691+/-1004.077  $\chi^2/\text{NDF}$ : 22.0/17

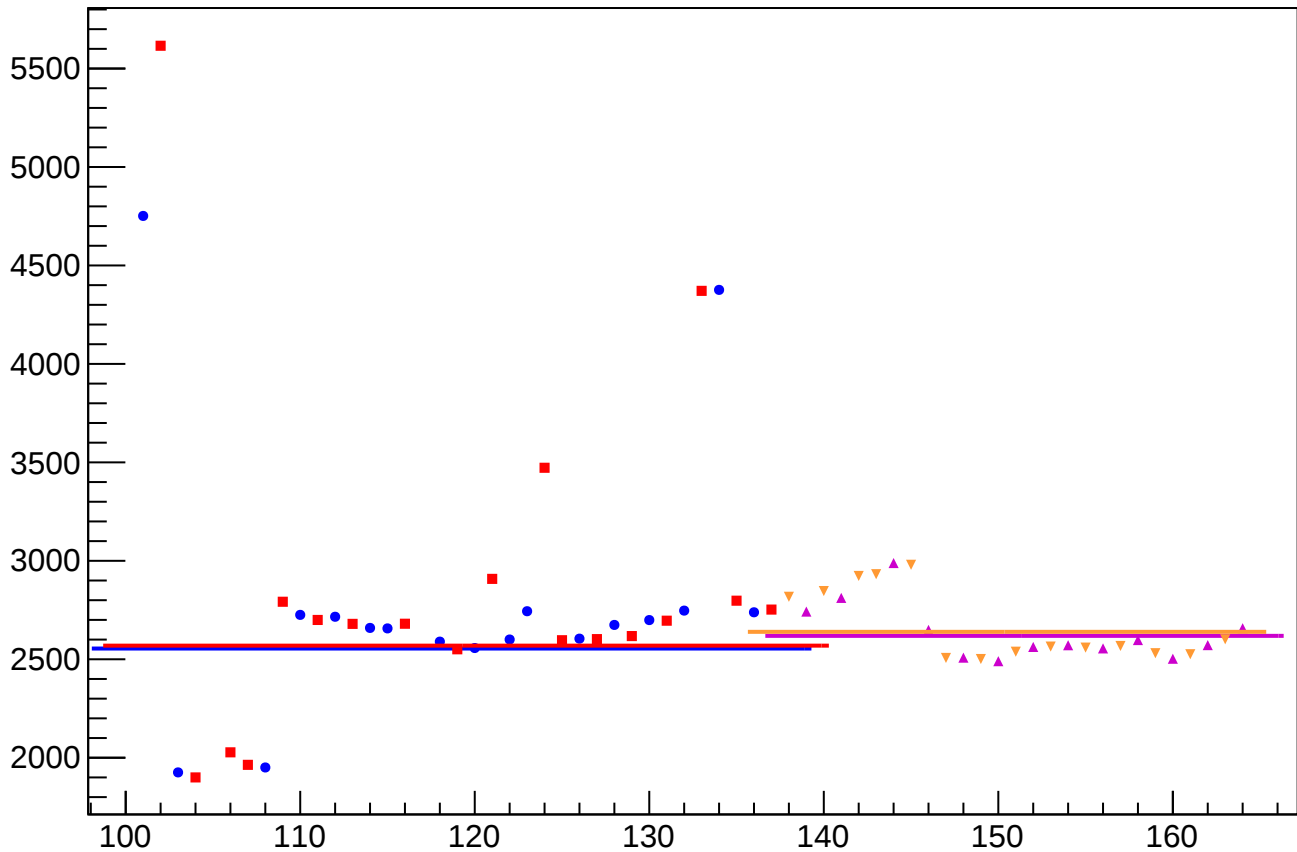
Left In: -3796.034+/-812.146  $\chi^2/\text{NDF}$ : 7.4/12

+ sign 1536.014+/-630.815  $\chi^2/\text{NDF}$ : 27.3/30

All: -945.341+/-446.276  $\chi^2/\text{NDF}$ : 88.2/61

- sign -3431.651+/-631.445  $\chi^2/\text{NDF}$ : 29.9/30

# dit\_asym\_atr2\_rms vs Slug



Right In: 2554.537+/-0.713  $\chi^2/\text{NDF}$ : 536626.0/16

Left Out: 2639.389+/-0.572  $\chi^2/\text{NDF}$ : 80380.0/13

Right Out: 2569.256+/-0.710  $\chi^2/\text{NDF}$ : 723332.1/17

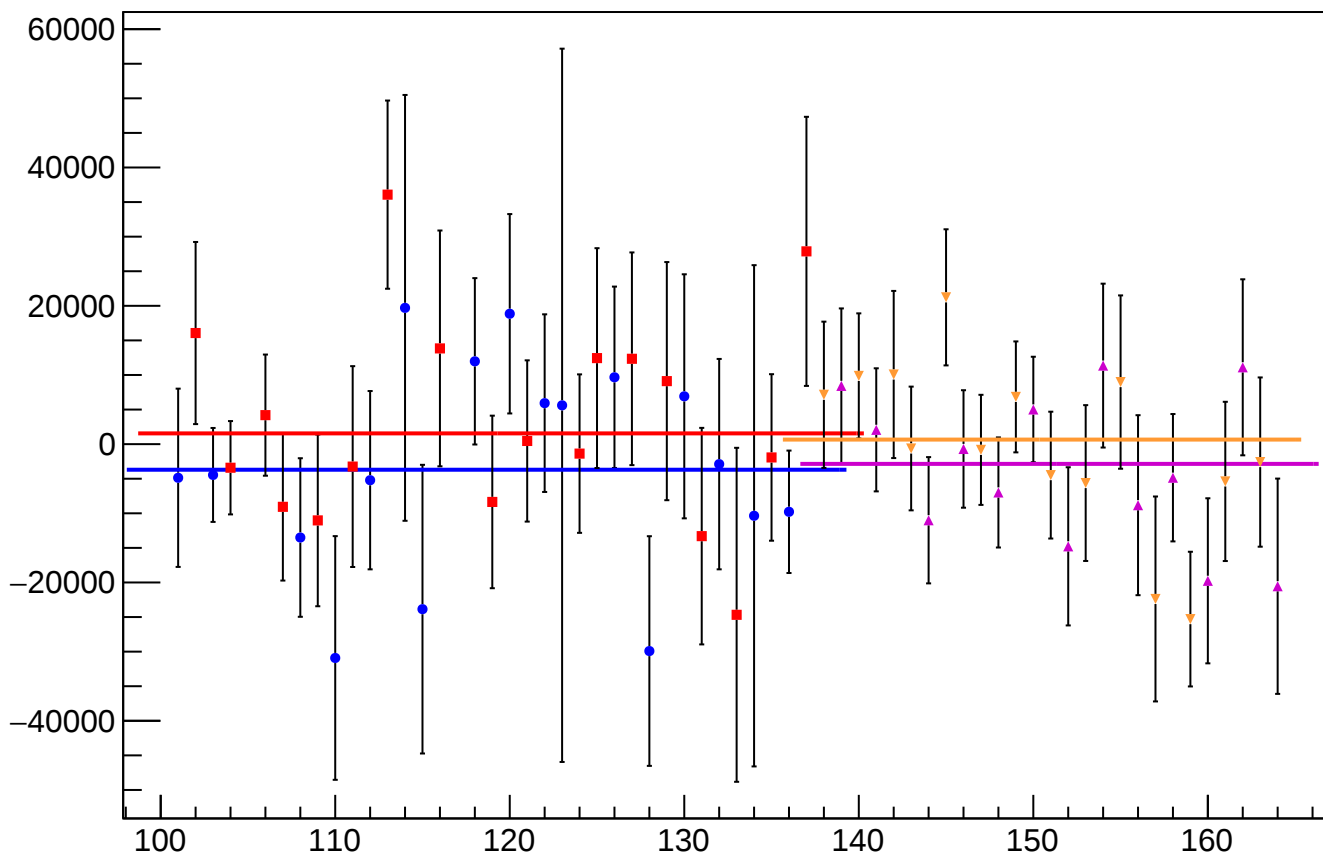
Left In: 2618.960+/-0.574  $\chi^2/\text{NDF}$ : 52102.7/12

+ sign 2606.166+/-0.446  $\chi^2/\text{NDF}$ : 625627.2/30

All: 2602.732+/-0.316  $\chi^2/\text{NDF}$ : 1404144.7/63

- sign 2599.293+/-0.446  $\chi^2/\text{NDF}$ : 778398.9/30

# asym\_atr2\_correction\_mean vs Slug



Right In:  $-3699.522 \pm 3217.843$   $\chi^2/\text{NDF}: 13.8/16$

Left Out:  $659.983 \pm 2695.239$   $\chi^2/\text{NDF}: 18.0/13$

Right Out:  $1555.707 \pm 2911.769$   $\chi^2/\text{NDF}: 16.8/17$

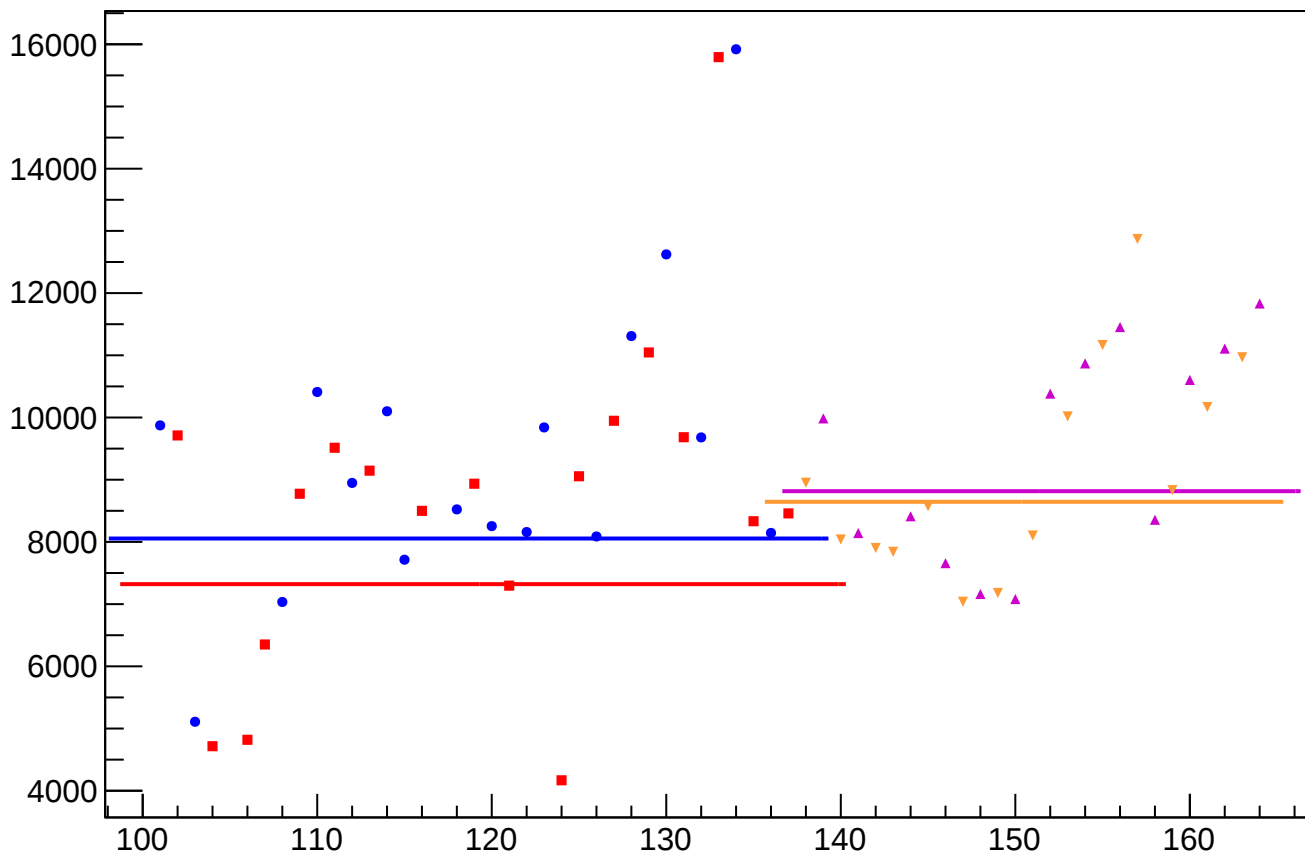
Left In:  $-2853.824 \pm 2781.498$   $\chi^2/\text{NDF}: 10.8/12$

+ sign  $-1137.458 \pm 2066.206$   $\chi^2/\text{NDF}: 32.9/30$

All:  $-938.462 \pm 1441.222$   $\chi^2/\text{NDF}: 61.7/61$

- sign  $-749.903 \pm 2011.293$   $\chi^2/\text{NDF}: 28.8/30$

# asym\_atr2\_correction\_rms vs Slug



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 8644.998+/-1.906  $\chi^2/\text{NDF}$ : 570925.1/13

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

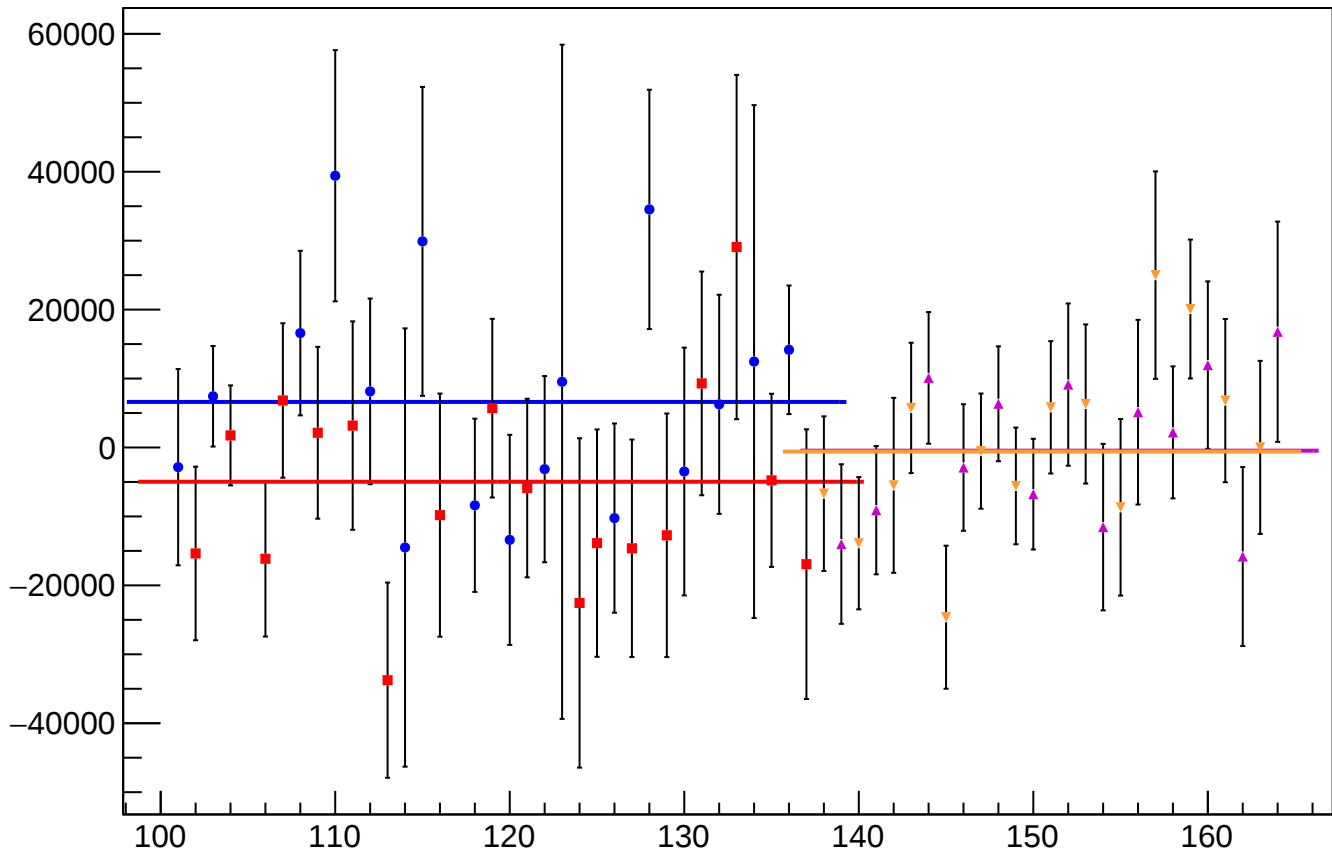
Left In: 8815.614+/-1.967  $\chi^2/\text{NDF}$ : 633811.7/12

+ sign 8401.646+/-1.461  $\chi^2/\text{NDF}$ : 1431233.3/30

All: 8248.144+/-1.019  $\chi^2/\text{NDF}$ : 3697871.1/63

- sign 8102.692+/-1.422  $\chi^2/\text{NDF}$ : 2245139.7/30

# asym\_atr2\_mean vs Slug



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -583.541+/-2817.185  $\chi^2/\text{NDF}$ : 17.2/13

Right Out: -4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

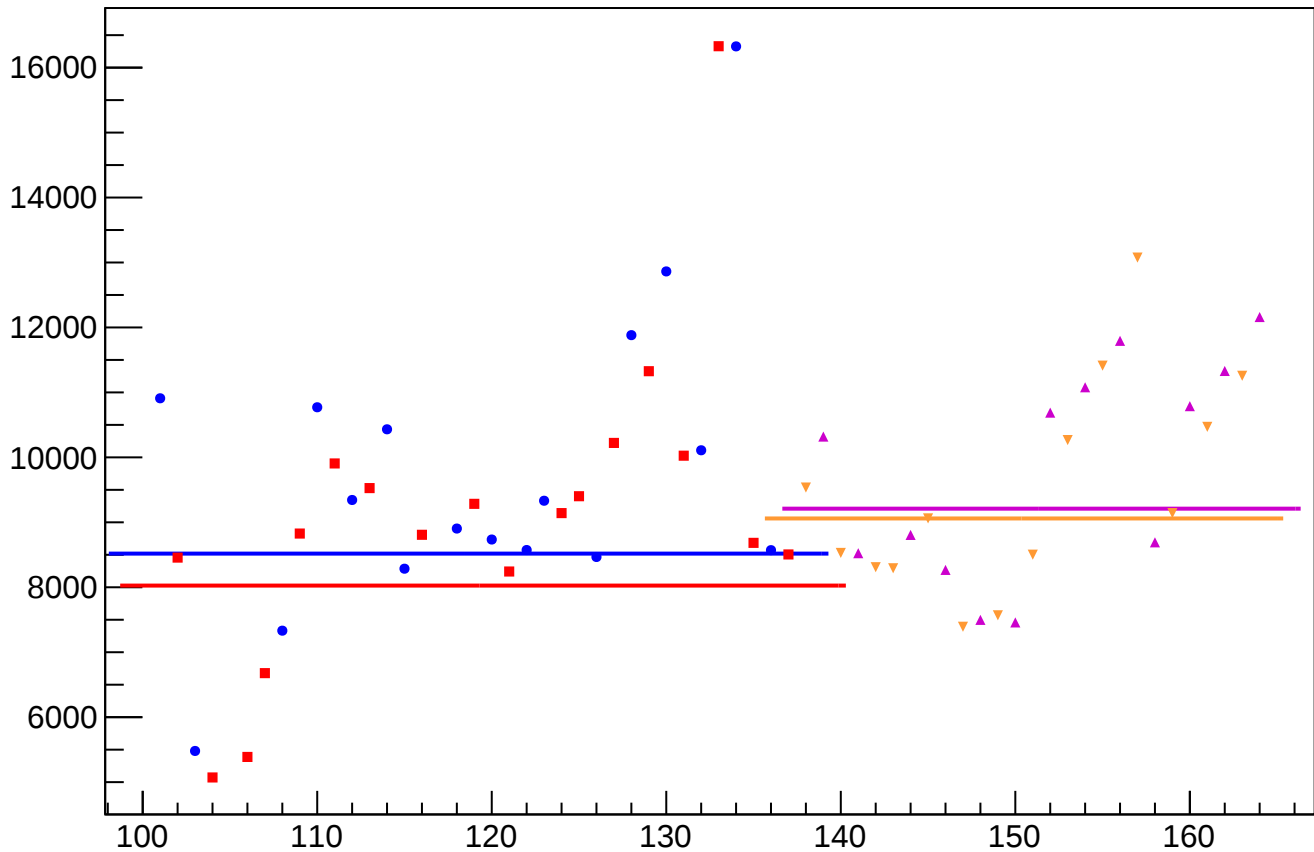
Left In: -461.928+/-2899.174  $\chi^2/\text{NDF}$ : 10.2/12

+ sign 2347.900+/-2168.205  $\chi^2/\text{NDF}$ : 34.6/30

All: -110.849+/-1523.617  $\chi^2/\text{NDF}$ : 61.9/61

- sign -2509.362+/-2141.482  $\chi^2/\text{NDF}$ : 24.8/30

# asym\_atr2\_rms vs Slug



Right In: 8518.273+/-2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 9059.367+/-1.992  $\chi^2/\text{NDF}$ : 499934.1/13

Right Out: 8026.045+/-2.246  $\chi^2/\text{NDF}$ : 942657.8/17

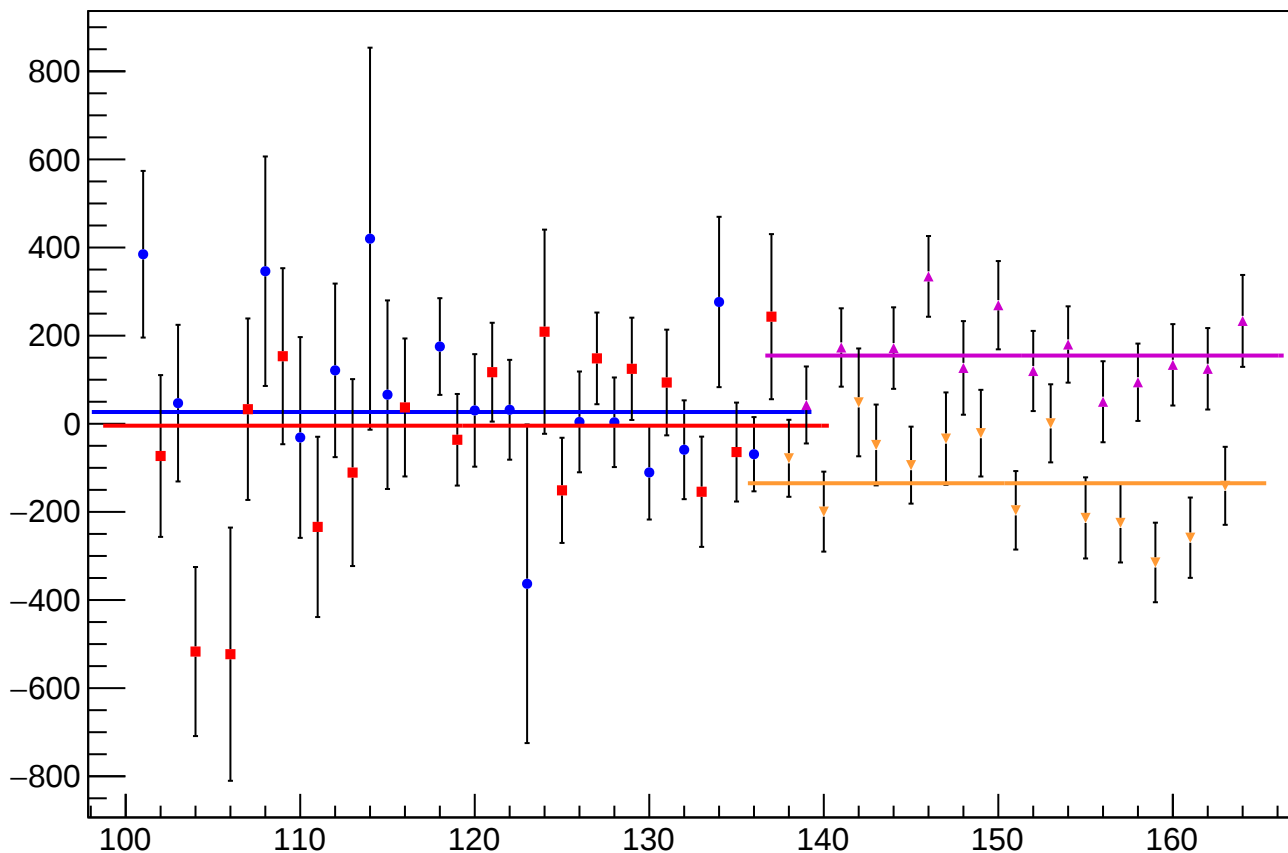
Left In: 9210.210+/-2.050  $\chi^2/\text{NDF}$ : 548690.0/12

+ sign 8838.784+/-1.533  $\chi^2/\text{NDF}$ : 1302006.8/30

All: 8754.414+/-1.077  $\chi^2/\text{NDF}$ : 2950956.2/63

- sign 8672.113+/-1.514  $\chi^2/\text{NDF}$ : 1642966.9/30

# dit\_asym\_sam1\_mean vs Slug



Right In:  $26.713 \pm 33.626$   $\chi^2/\text{NDF}$ : 14.5/16

Left Out:  $-134.969 \pm 24.773$   $\chi^2/\text{NDF}$ : 16.9/13

Right Out:  $-4.338 \pm 33.842$   $\chi^2/\text{NDF}$ : 23.9/17

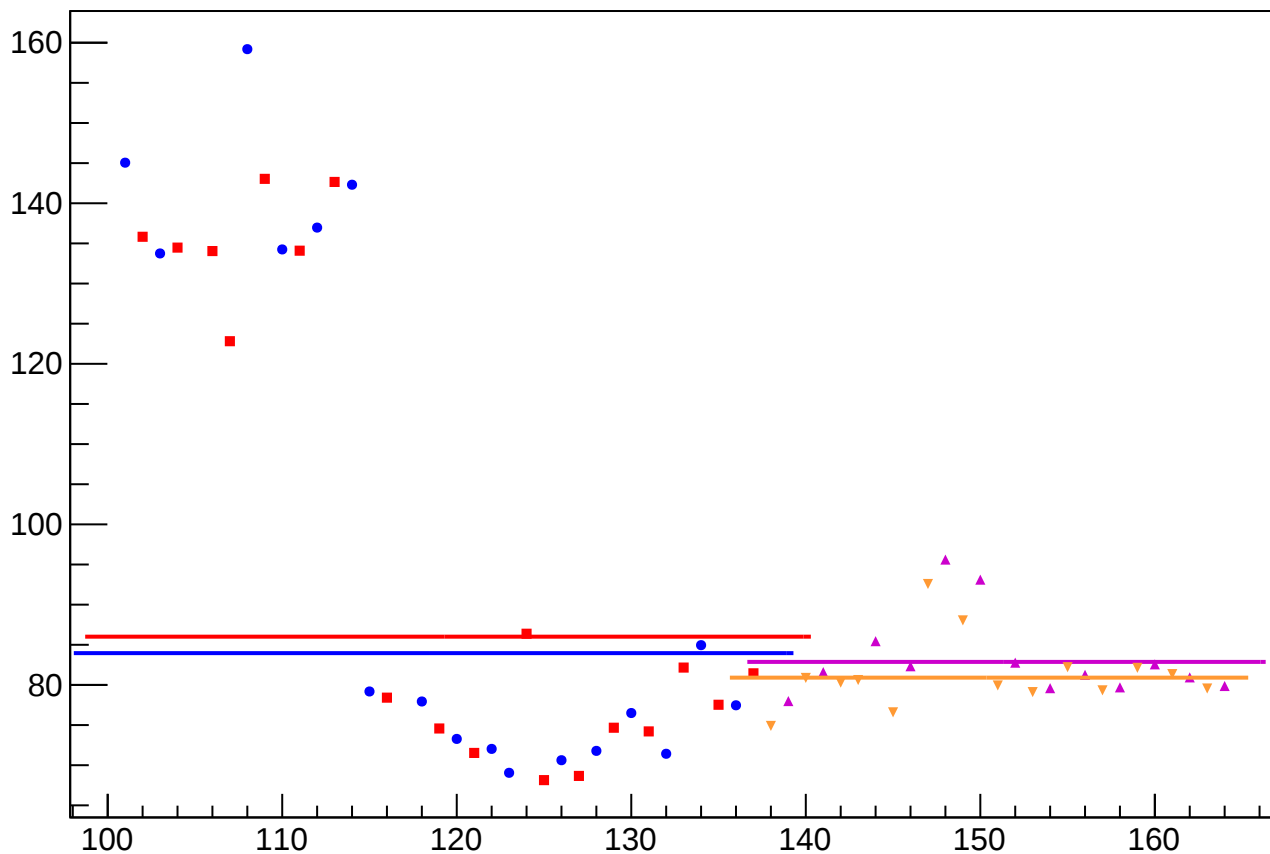
Left In:  $154.828 \pm 25.735$   $\chi^2/\text{NDF}$ : 9.7/12

+ sign  $-78.089 \pm 19.945$   $\chi^2/\text{NDF}$ : 46.5/30

All:  $6.879 \pm 14.290$   $\chi^2/\text{NDF}$ : 131.4/61

- sign  $96.511 \pm 20.485$   $\chi^2/\text{NDF}$ : 47.6/30

# dit\_asym\_sam1\_rms vs Slug



Right In: 83.961+/-0.024  $\chi^2/\text{NDF}$ : 960253.6/16

Left Out: 80.907+/-0.018  $\chi^2/\text{NDF}$ : 52716.9/13

Right Out: 86.012+/-0.024  $\chi^2/\text{NDF}$ : 1026404.0/17

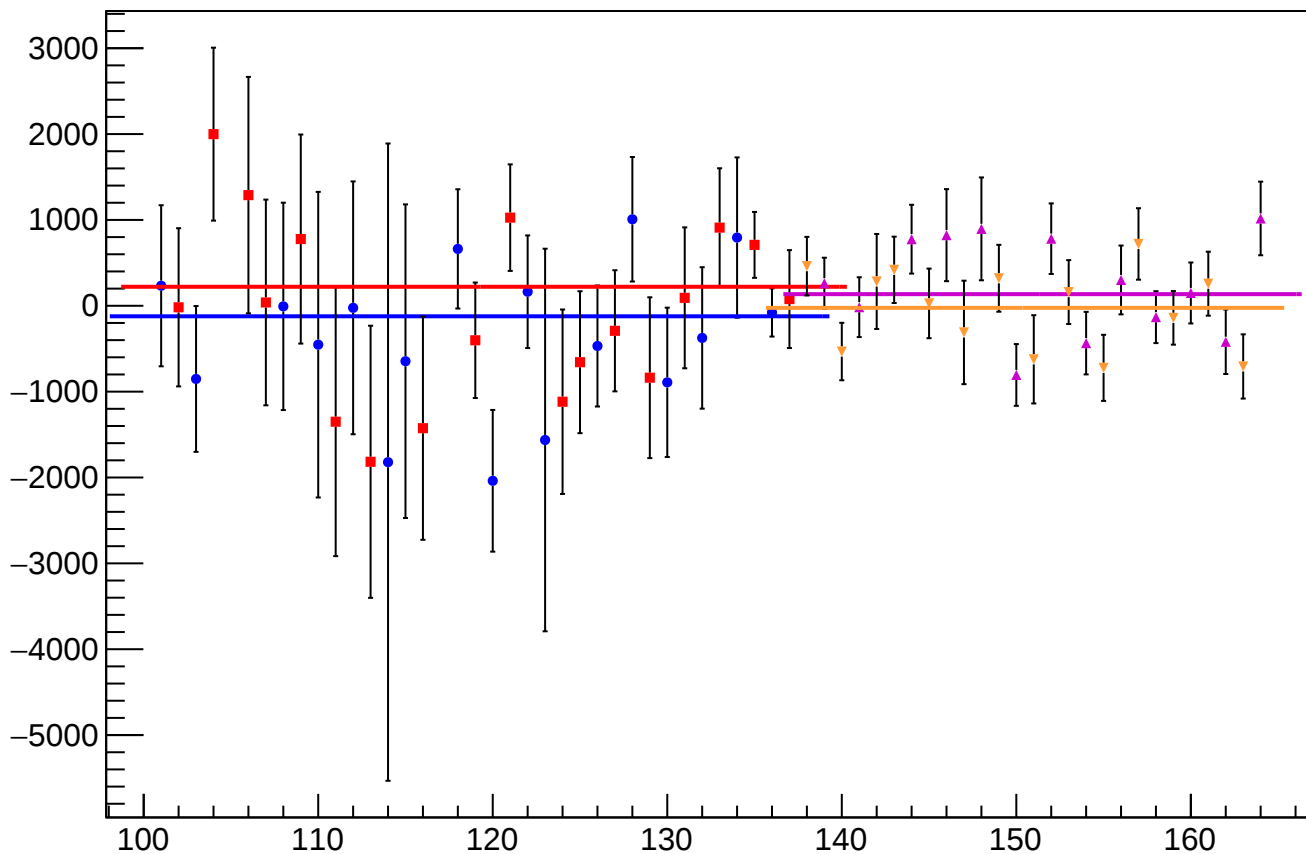
Left In: 82.869+/-0.018  $\chi^2/\text{NDF}$ : 66617.0/12

+ sign 81.982+/-0.014  $\chi^2/\text{NDF}$ : 1023658.2/30

All: 82.974+/-0.010  $\chi^2/\text{NDF}$ : 2137782.7/61

- sign 84.021+/-0.014  $\chi^2/\text{NDF}$ : 1103952.6/30

# asym\_sam1\_correction\_mean vs Slug



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}$ : 13.0/16

Left Out:  $-24.212 \pm 104.783$   $\chi^2/\text{NDF}$ : 19.1/13

Right Out:  $221.525 \pm 185.098$   $\chi^2/\text{NDF}$ : 18.0/17

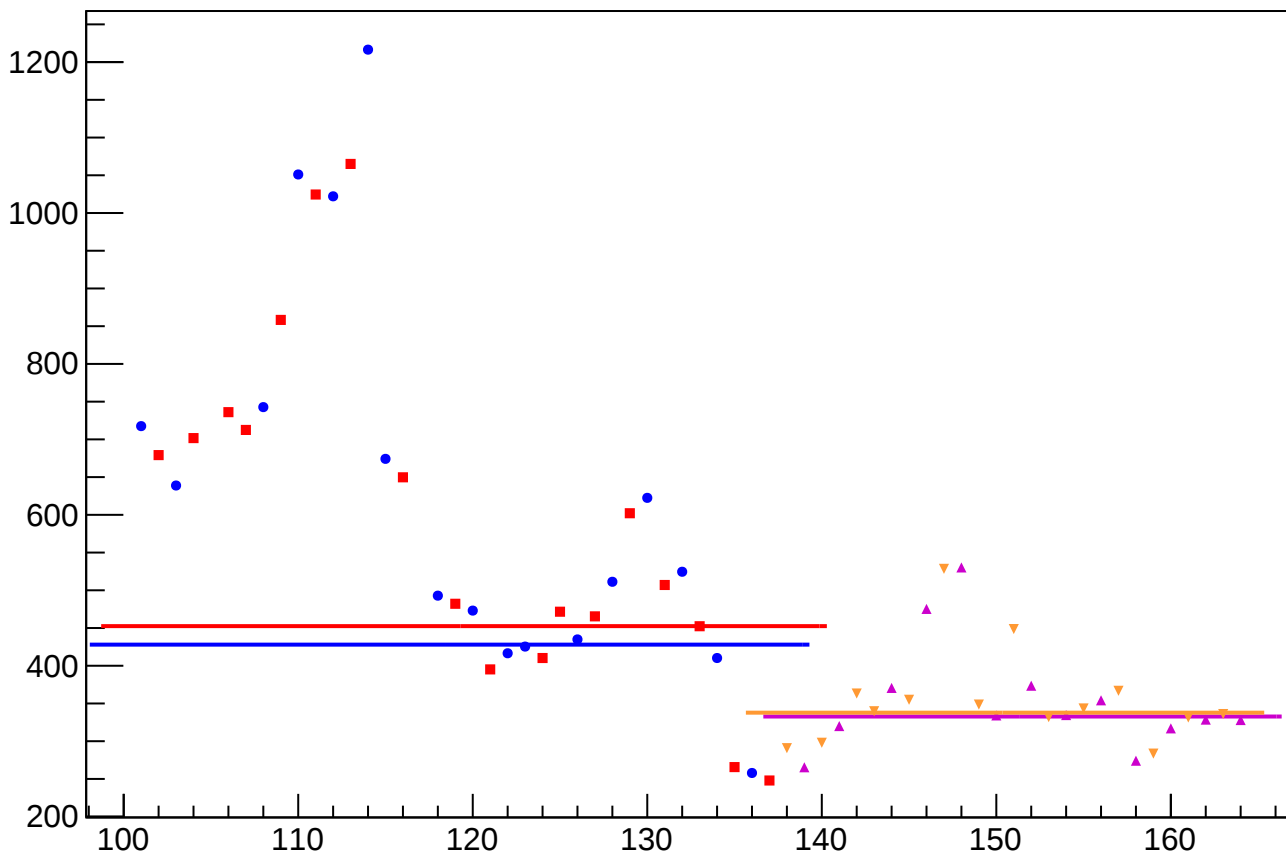
Left In:  $135.510 \pm 104.916$   $\chi^2/\text{NDF}$ : 25.3/12

+ sign  $-49.151 \pm 90.504$   $\chi^2/\text{NDF}$ : 32.4/30

All:  $52.767 \pm 64.266$   $\chi^2/\text{NDF}$ : 78.4/61

- sign  $156.426 \pm 91.274$   $\chi^2/\text{NDF}$ : 43.5/30

# asym\_sam1\_correction\_rms vs Slug



Right In:  $427.986 \pm 0.127$   $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out:  $337.828 \pm 0.074$   $\chi^2/\text{NDF}$ : 440643.7/13

Right Out:  $452.508 \pm 0.131$   $\chi^2/\text{NDF}$ : 2073032.9/17

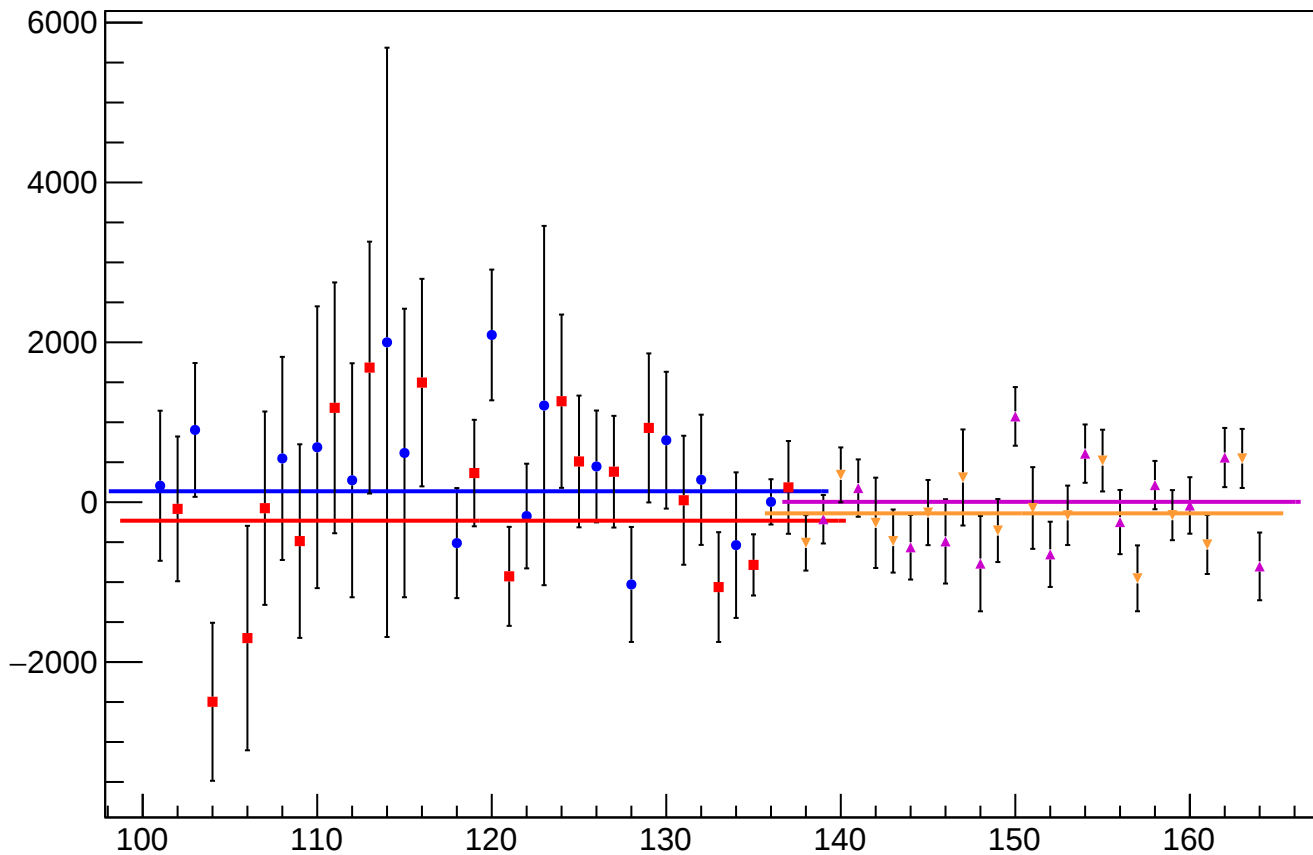
Left In:  $332.714 \pm 0.074$   $\chi^2/\text{NDF}$ : 586981.8/12

+ sign  $360.726 \pm 0.064$   $\chi^2/\text{NDF}$ : 2878931.6/30

All:  $361.279 \pm 0.045$   $\chi^2/\text{NDF}$ : 6173114.4/61

- sign  $361.842 \pm 0.065$   $\chi^2/\text{NDF}$ : 3294031.8/30

# asym\_sam1\_mean vs Slug



Right In: 136.810 $\pm$ 179.609  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: -139.434 $\pm$ 105.371  $\chi^2/\text{NDF}$ : 16.2/13

Right Out: -231.586 $\pm$ 184.578  $\chi^2/\text{NDF}$ : 21.8/17

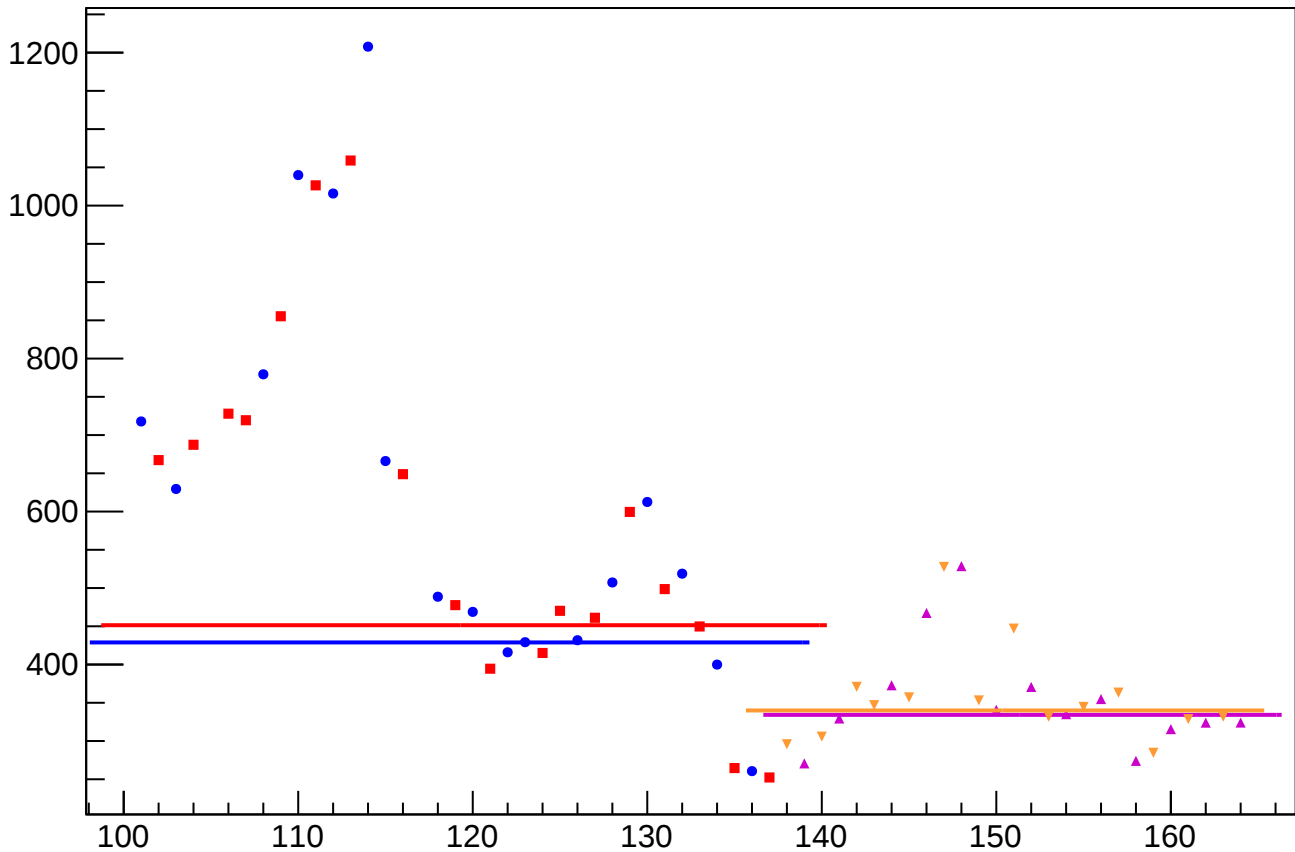
Left In: 4.353 $\pm$ 105.326  $\chi^2/\text{NDF}$ : 25.9/12

+ sign -68.701 $\pm$ 90.885  $\chi^2/\text{NDF}$ : 30.6/30

All: -61.201 $\pm$ 64.475  $\chi^2/\text{NDF}$ : 79.4/61

- sign -53.602 $\pm$ 91.480  $\chi^2/\text{NDF}$ : 48.9/30

# asym\_sam1\_rms vs Slug



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 339.972+/-0.075  $\chi^2/\text{NDF}$ : 420226.4/13

Right Out: 451.411+/-0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

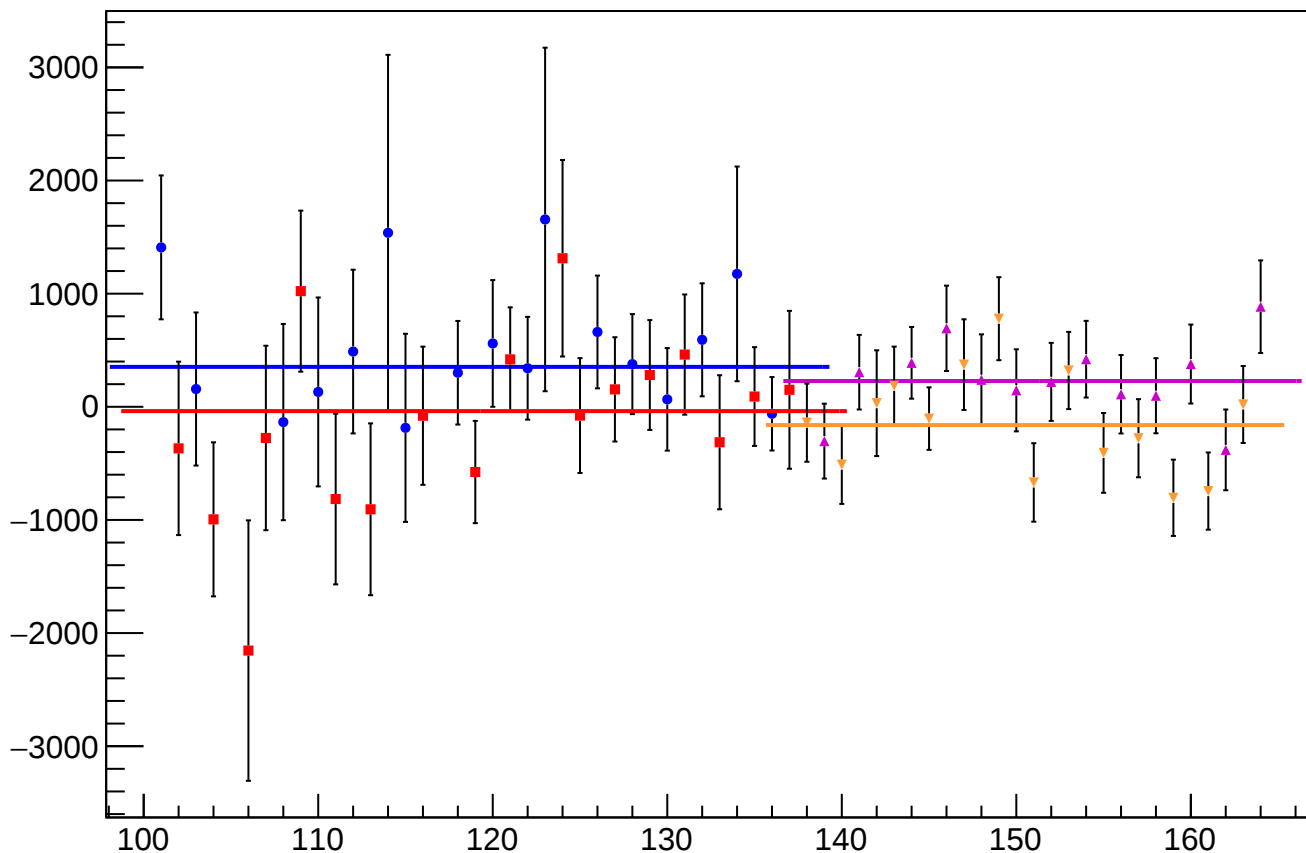
Left In: 334.209+/-0.074  $\chi^2/\text{NDF}$ : 555486.9/12

+ sign 362.739+/-0.064  $\chi^2/\text{NDF}$ : 2795484.4/30

All: 362.868+/-0.046  $\chi^2/\text{NDF}$ : 5990026.5/61

- sign 362.998+/-0.065  $\chi^2/\text{NDF}$ : 3194534.1/30

# dit\_asym\_sam2\_mean vs Slug



Right In:  $352.927 \pm 137.298$   $\chi^2/\text{NDF}$ : 8.5/16

Left Out:  $-161.476 \pm 92.958$   $\chi^2/\text{NDF}$ : 22.2/13

Right Out:  $-37.982 \pm 139.023$   $\chi^2/\text{NDF}$ : 16.9/17

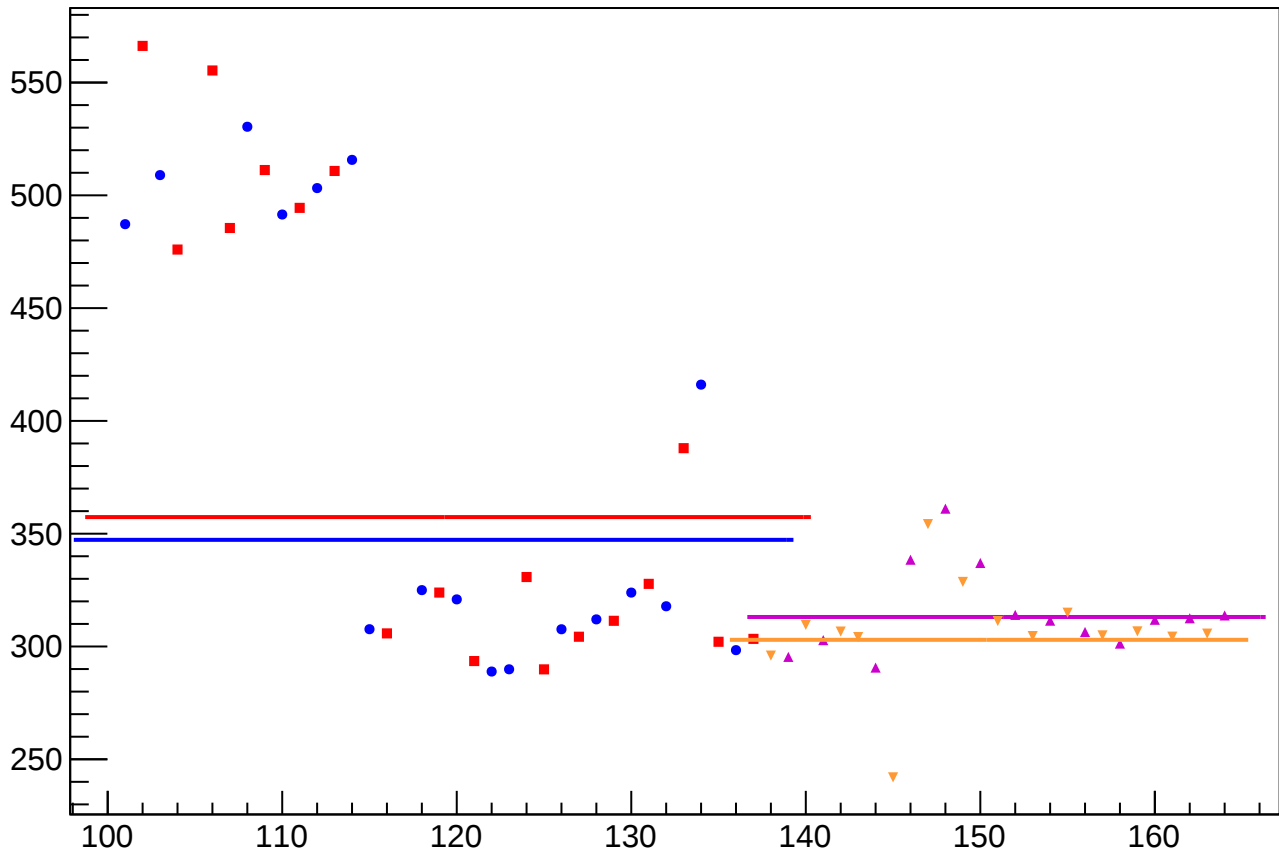
Left In:  $227.992 \pm 97.281$   $\chi^2/\text{NDF}$ : 10.7/12

+ sign  $0.210 \pm 76.975$   $\chi^2/\text{NDF}$ : 40.3/30

All:  $67.943 \pm 55.370$   $\chi^2/\text{NDF}$ : 72.0/61

- sign  $140.566 \pm 79.705$   $\chi^2/\text{NDF}$ : 30.1/30

# dit\_asym\_sam2\_rms vs Slug



Right In: 347.280 $\pm$ 0.097  $\chi^2$ /NDF: 618906.8/16

Left Out: 302.957 $\pm$ 0.066  $\chi^2$ /NDF: 145692.4/13

Right Out: 357.365 $\pm$ 0.098  $\chi^2$ /NDF: 759938.5/17

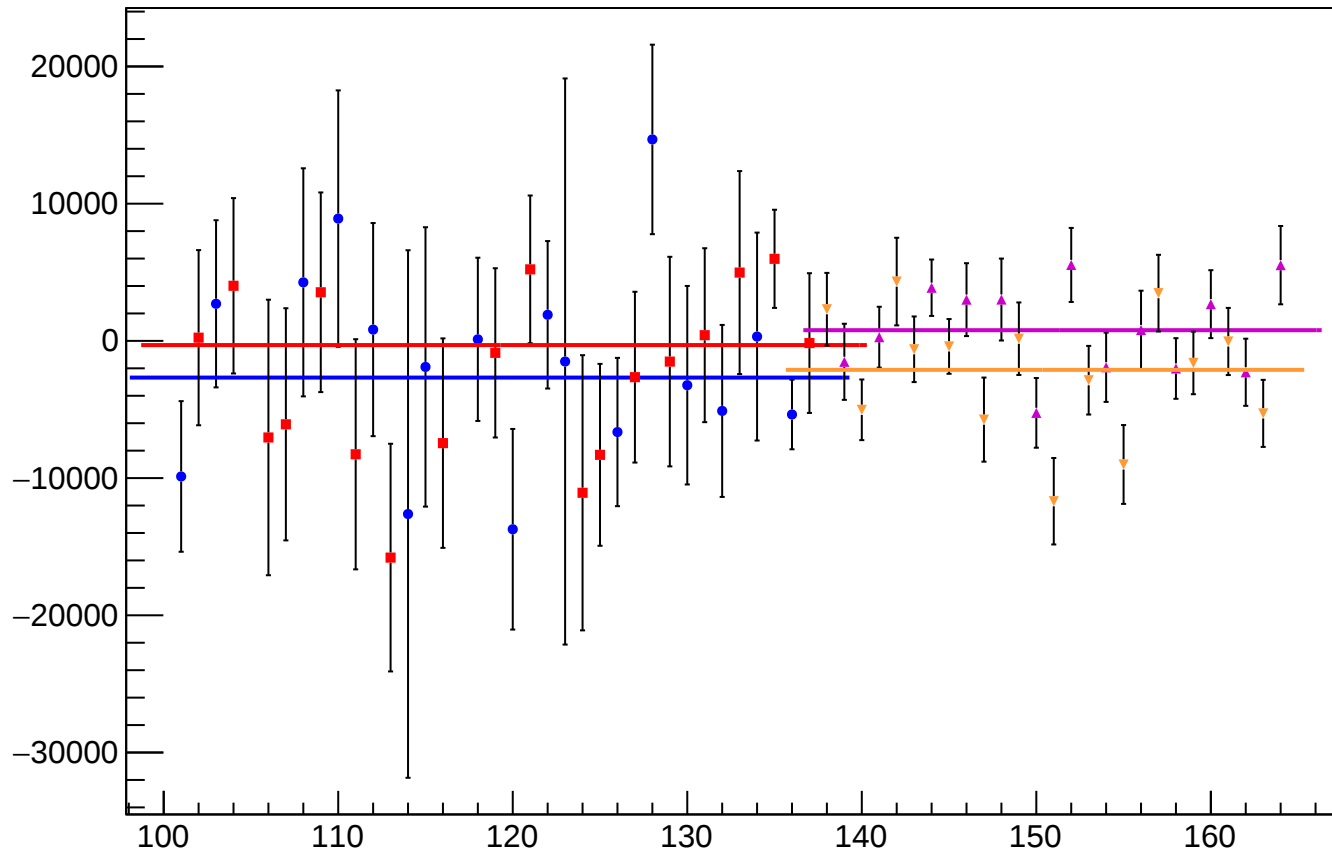
Left In: 313.079 $\pm$ 0.069  $\chi^2$ /NDF: 67429.2/12

+ sign 316.888 $\pm$ 0.054  $\chi^2$ /NDF: 907514.3/30

All: 322.075 $\pm$ 0.039  $\chi^2$ /NDF: 1889935.4/61

- sign 327.636 $\pm$ 0.056  $\chi^2$ /NDF: 963606.4/30

# asym\_sam2\_correction\_mean vs Slug



Right In:  $-2674.025 \pm 1456.188$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-2110.460 \pm 680.777$   $\chi^2/\text{NDF}$ : 33.4/13

Right Out:  $-304.817 \pm 1517.834$   $\chi^2/\text{NDF}$ : 14.4/17

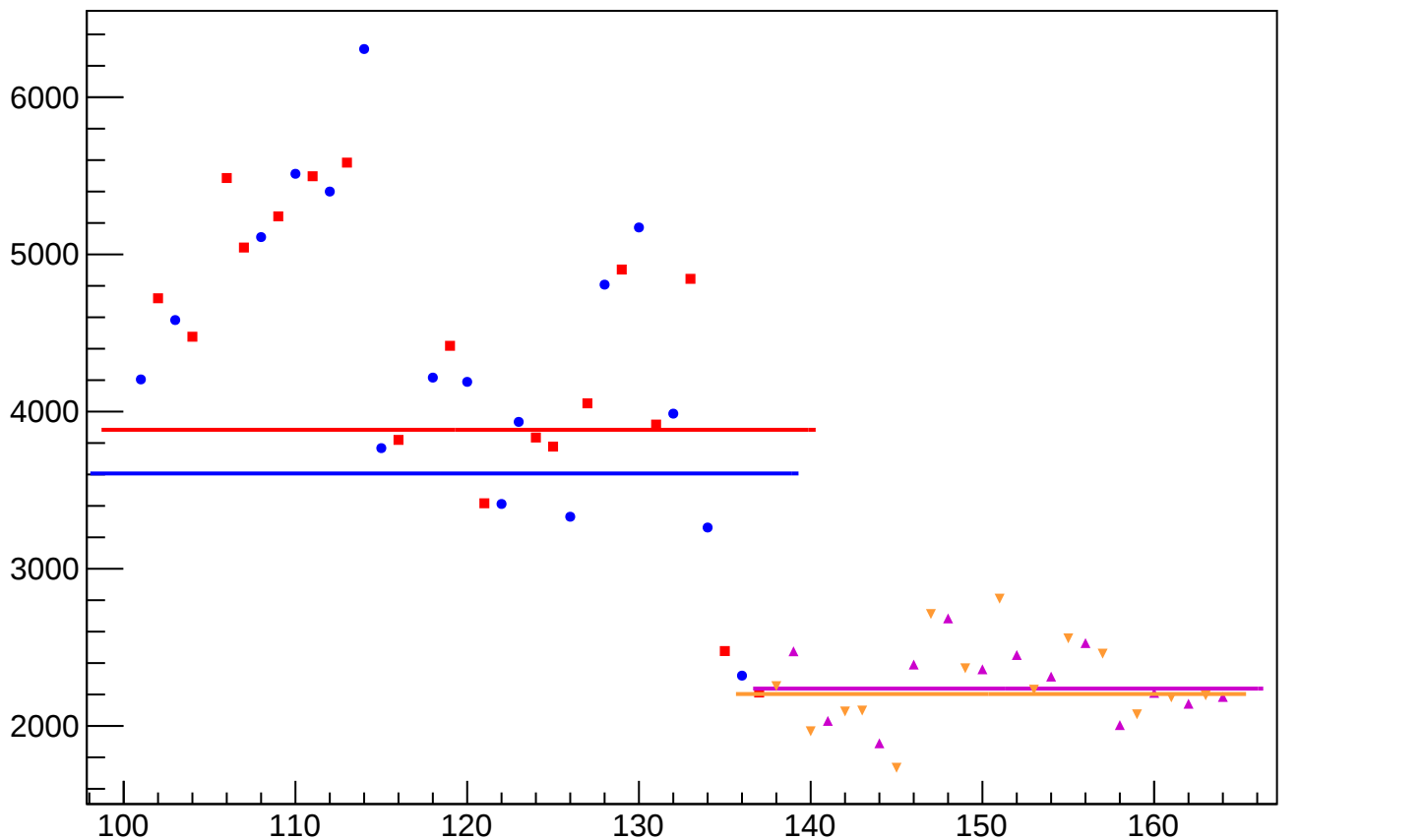
Left In:  $779.946 \pm 697.895$   $\chi^2/\text{NDF}$ : 20.7/12

+ sign  $-2211.541 \pm 616.710$   $\chi^2/\text{NDF}$ : 50.2/30

All:  $-849.359 \pm 442.093$   $\chi^2/\text{NDF}$ : 95.7/61

- sign  $590.636 \pm 634.080$   $\chi^2/\text{NDF}$ : 35.5/30

# asym\_sam2\_correction\_rms vs Slug



Right In:  $3606.359 \pm 1.030$   $\chi^2/\text{NDF}: 1092516.6/16$

Left Out:  $2203.202 \pm 0.481$   $\chi^2/\text{NDF}: 331764.9/13$

Right Out:  $3884.203 \pm 1.073$   $\chi^2/\text{NDF}: 994574.5/17$

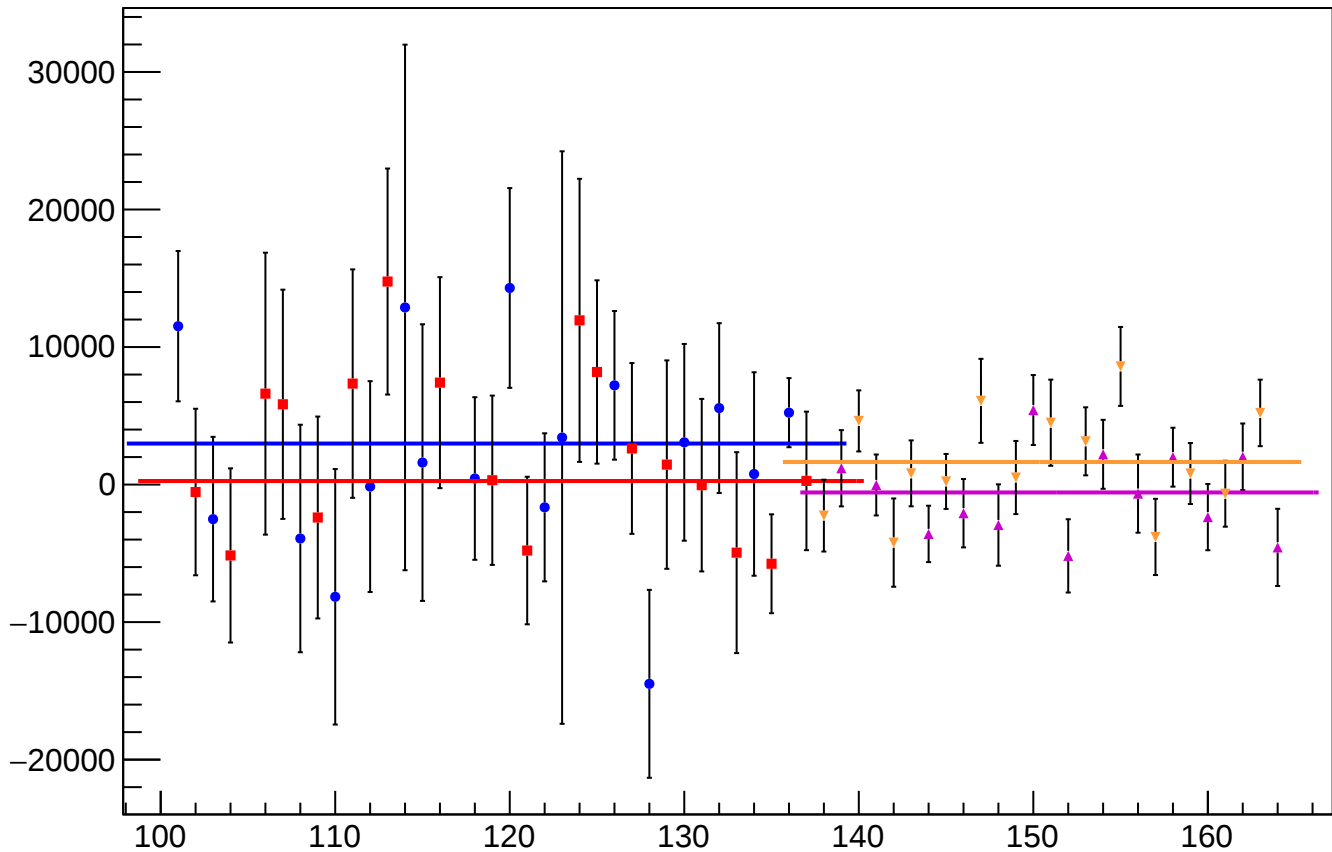
Left In:  $2237.551 \pm 0.493$   $\chi^2/\text{NDF}: 206203.4/12$

+ sign  $2454.874 \pm 0.436$   $\chi^2/\text{NDF}: 2948194.0/30$

All:  $2488.925 \pm 0.313$   $\chi^2/\text{NDF}: 6104604.7/63$

- sign  $2524.921 \pm 0.448$   $\chi^2/\text{NDF}: 3143868.0/30$

# asym\_sam2\_mean vs Slug



Right In: 2983.609 $\pm$ 1443.630  $\chi^2$ /NDF: 17.4/16

Left Out: 1639.527 $\pm$ 676.491  $\chi^2$ /NDF: 24.5/13

Right Out: 259.721 $\pm$ 1510.344  $\chi^2$ /NDF: 13.5/17

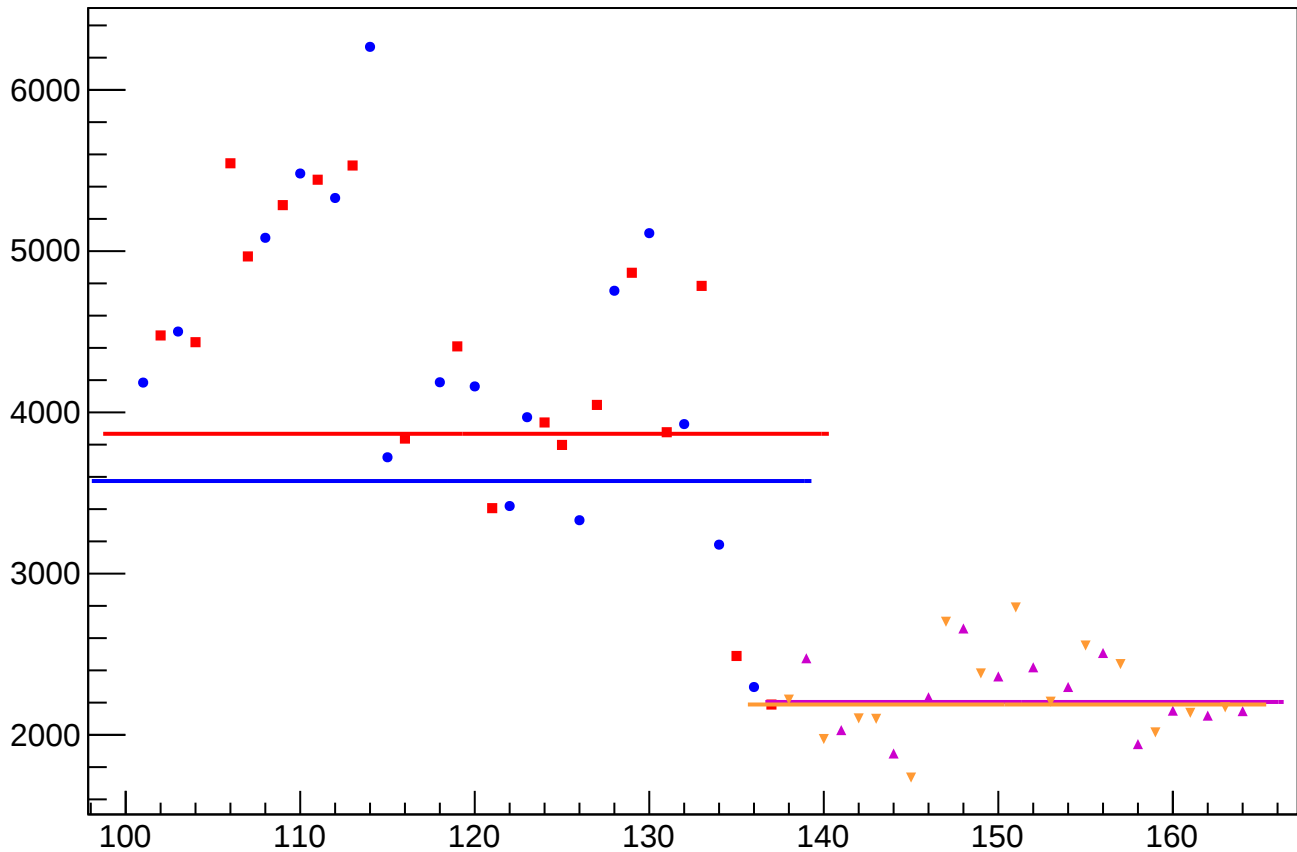
Left In: -573.093 $\pm$ 687.772  $\chi^2$ /NDF: 18.6/12

+ sign 1881.532 $\pm$ 612.569  $\chi^2$ /NDF: 42.6/30

All: 750.670 $\pm$ 437.799  $\chi^2$ /NDF: 81.9/61

- sign -430.057 $\pm$ 625.929  $\chi^2$ /NDF: 32.3/30

# asym\_sam2\_rms vs Slug



Right In: 3574.362 $\pm$ 1.021  $\chi^2$ /NDF: 1091350.4/16

Left Out: 2188.408 $\pm$ 0.478  $\chi^2$ /NDF:328969.6/13

Right Out: 3867.232 $\pm$ 1.068  $\chi^2$ /NDF: 968137.9/17

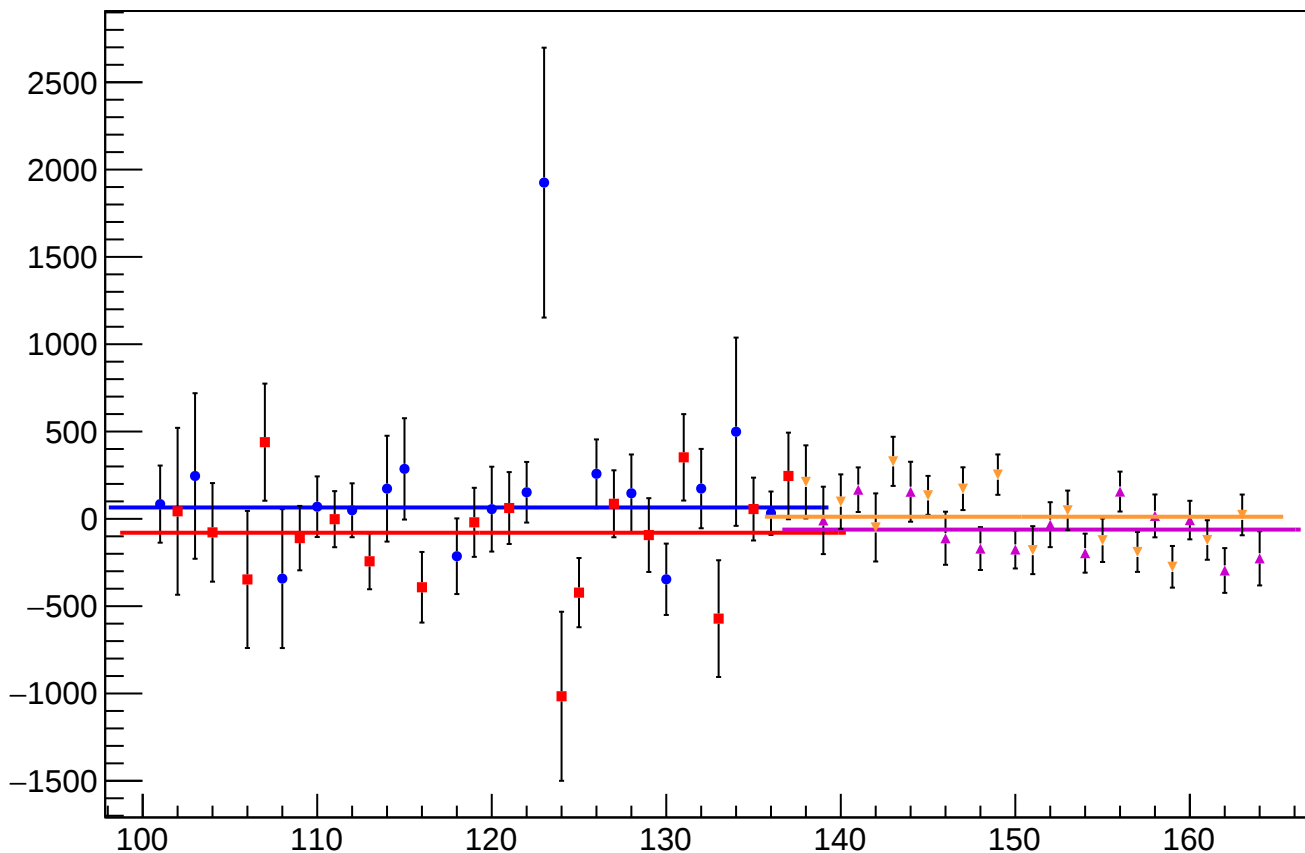
Left In: 2204.016 $\pm$ 0.486  $\chi^2$ /NDF:208217.8/12

+ sign 2437.952 $\pm$ 0.433  $\chi^2$ /NDF: 2931800.8/30

All: 2463.255 $\pm$ 0.310  $\chi^2$ /NDF: 6123930.6/61

- sign 2489.674 $\pm$ 0.443  $\chi^2$ /NDF: 3185154.2/30

# dit\_asym\_sam3\_mean vs Slug



Right In: 65.225 $\pm$ 52.700  $\chi^2$ /NDF: 15.7/16

Left Out: 12.150 $\pm$ 34.166  $\chi^2$ /NDF: 27.2/13

Right Out: -79.473 $\pm$ 52.344  $\chi^2$ /NDF: 22.2/17

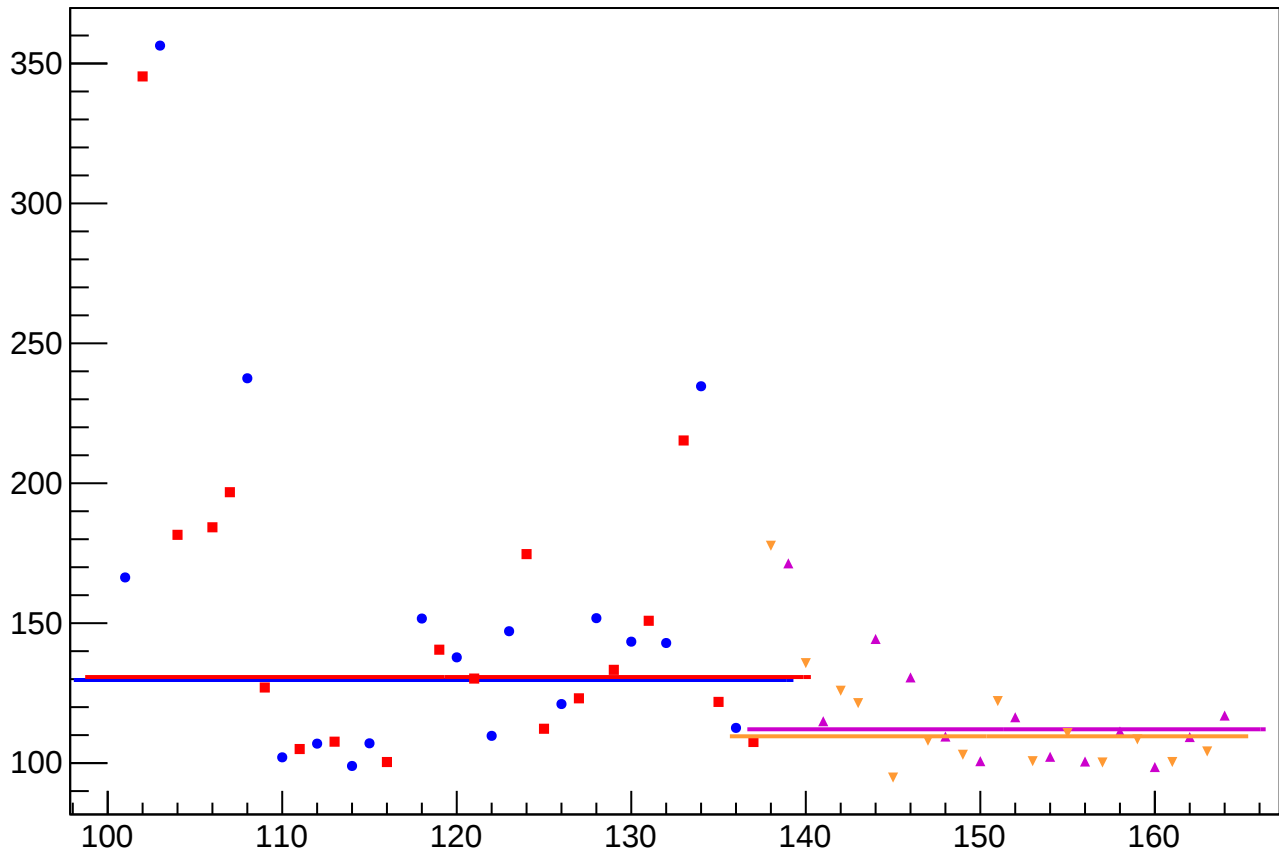
Left In: -61.523 $\pm$ 35.708  $\chi^2$ /NDF: 17.1/12

+ sign 27.856 $\pm$ 28.669  $\chi^2$ /NDF: 43.6/30

All: -18.328 $\pm$ 20.559  $\chi^2$ /NDF: 88.3/61

- sign -67.223 $\pm$ 29.498  $\chi^2$ /NDF: 39.3/30

# dit\_asym\_sam3\_rms vs Slug



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 109.579 $\pm$ 0.024  $\chi^2$ /NDF: 398236.5/13

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

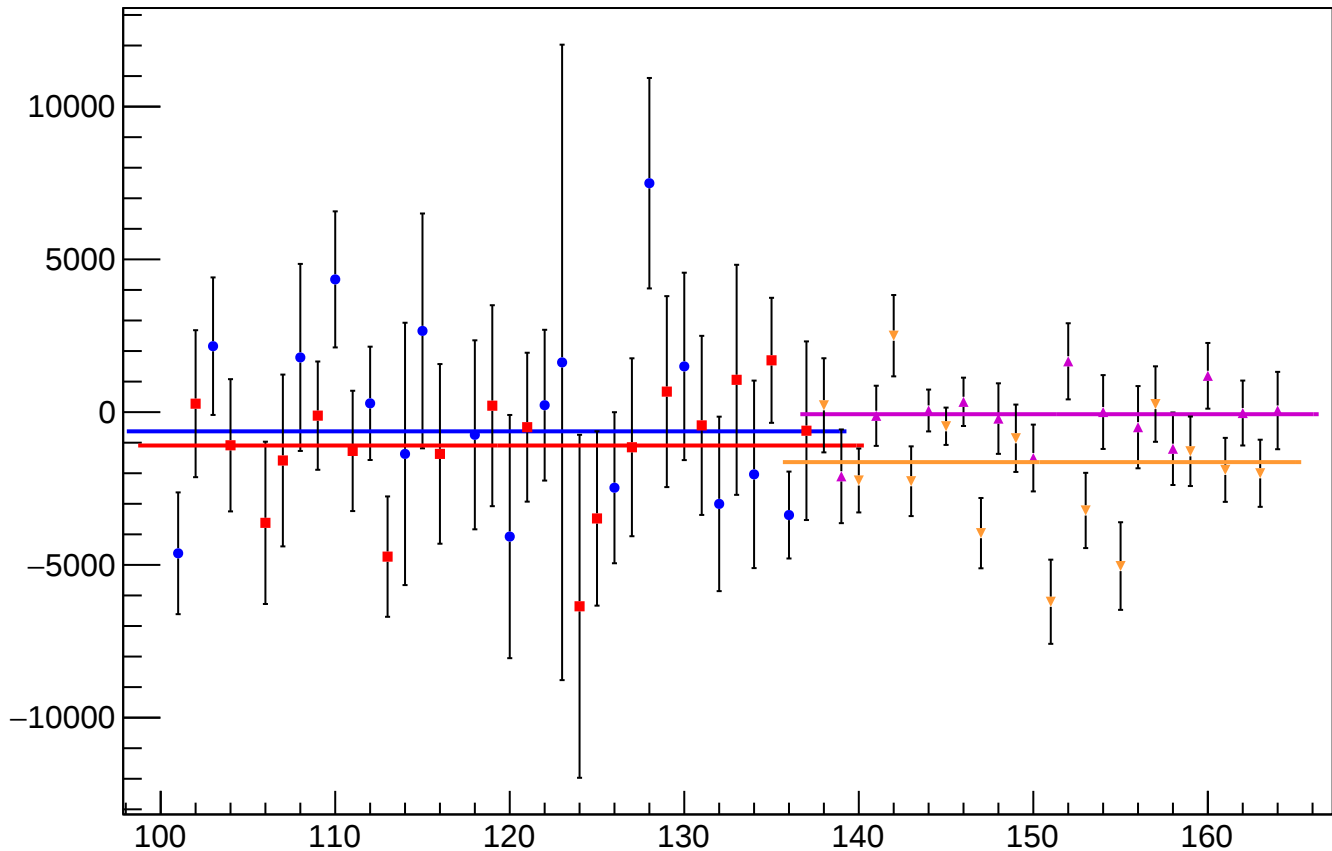
Left In: 112.085 $\pm$ 0.025  $\chi^2$ /NDF: 384074.4/12

+ sign 115.533 $\pm$ 0.020  $\chi^2$ /NDF: 1593110.0/30

All: 116.738 $\pm$ 0.015  $\chi^2$ /NDF: 3085553.9/61

- sign 118.013 $\pm$ 0.021  $\chi^2$ /NDF: 1485169.8/30

# asym\_sam3\_correction\_mean vs Slug



Right In:  $-628.175 \pm 621.486$   $\chi^2/\text{NDF}$ : 24.3/16

Left Out:  $-1635.672 \pm 291.520$   $\chi^2/\text{NDF}$ : 40.9/13

Right Out:  $-1091.945 \pm 599.483$   $\chi^2/\text{NDF}$ : 9.4/17

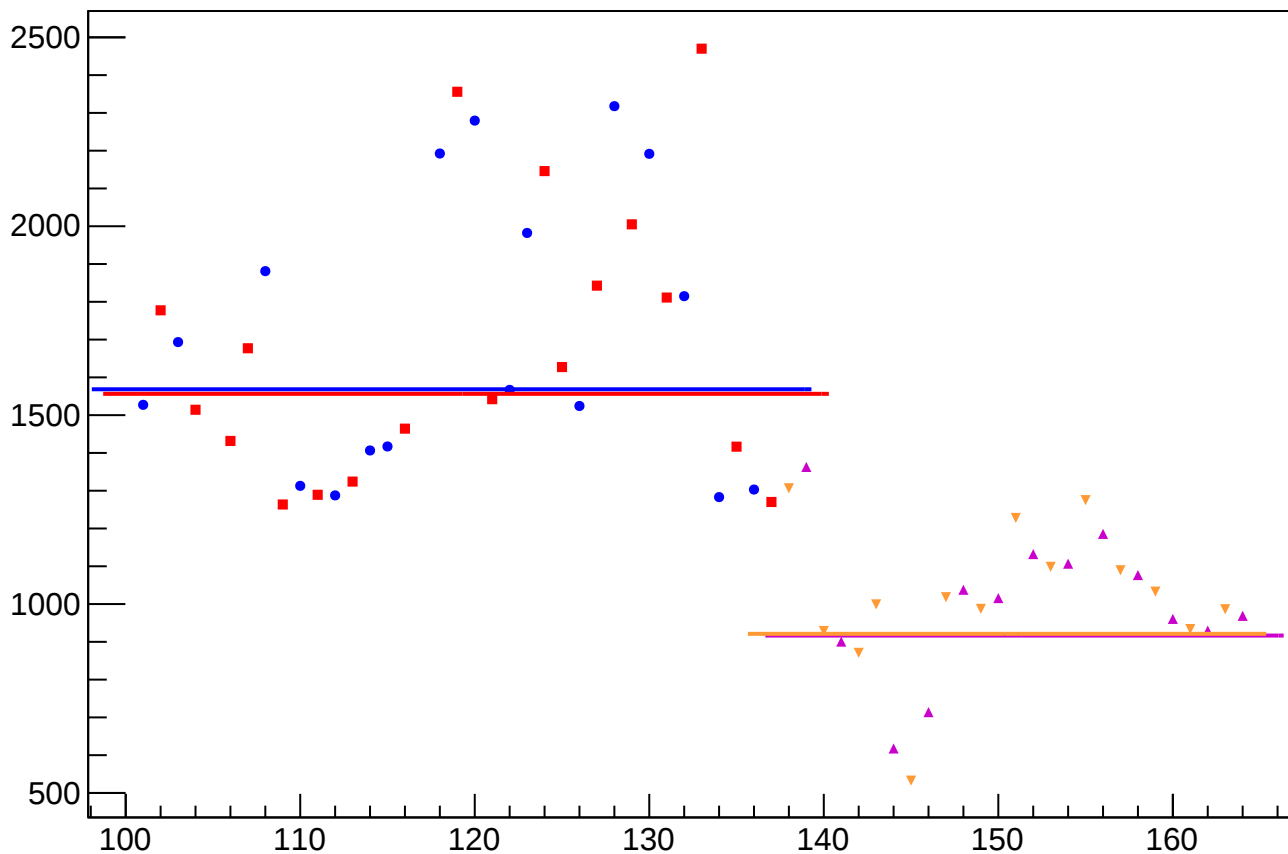
Left In:  $-67.452 \pm 291.872$   $\chi^2/\text{NDF}$ : 8.1/12

+ sign  $-1453.975 \pm 263.927$   $\chi^2/\text{NDF}$ : 67.4/30

All:  $-855.467 \pm 186.090$   $\chi^2/\text{NDF}$ : 97.4/61

- sign  $-263.768 \pm 262.422$   $\chi^2/\text{NDF}$ : 19.8/30

# asym\_sam3\_correction\_rms vs Slug



Right In: 1568.480+/-0.439  $\chi^2/\text{NDF}$ : 534197.6/16

Left Out: 921.159+/-0.206  $\chi^2/\text{NDF}$ : 1294145.8/13

Right Out: 1556.423+/-0.424  $\chi^2/\text{NDF}$ : 510453.6/17

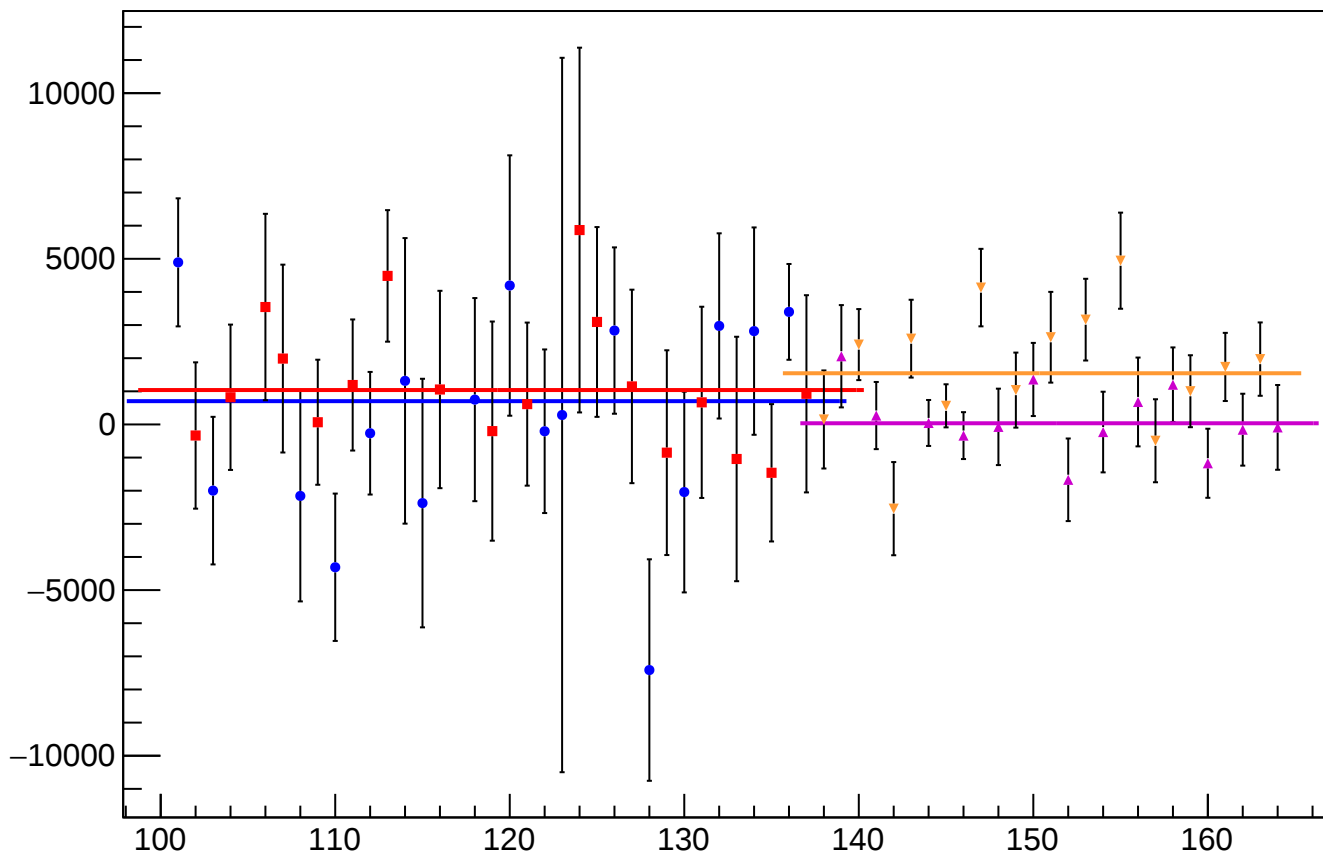
Left In: 916.633+/-0.206  $\chi^2/\text{NDF}$ : 953628.9/12

+ sign 1037.900+/-0.187  $\chi^2/\text{NDF}$ : 3606776.2/30

All: 1038.569+/-0.132  $\chi^2/\text{NDF}$ : 6912360.9/63

- sign 1039.231+/-0.186  $\chi^2/\text{NDF}$ : 3305559.1/30

# asym\_sam3\_mean vs Slug



Right In: 703.057+/-620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1545.230+/-296.889  $\chi^2/\text{NDF}$ :29.1/13

Right Out: 1038.423+/-604.250  $\chi^2/\text{NDF}$ : 8.2/17

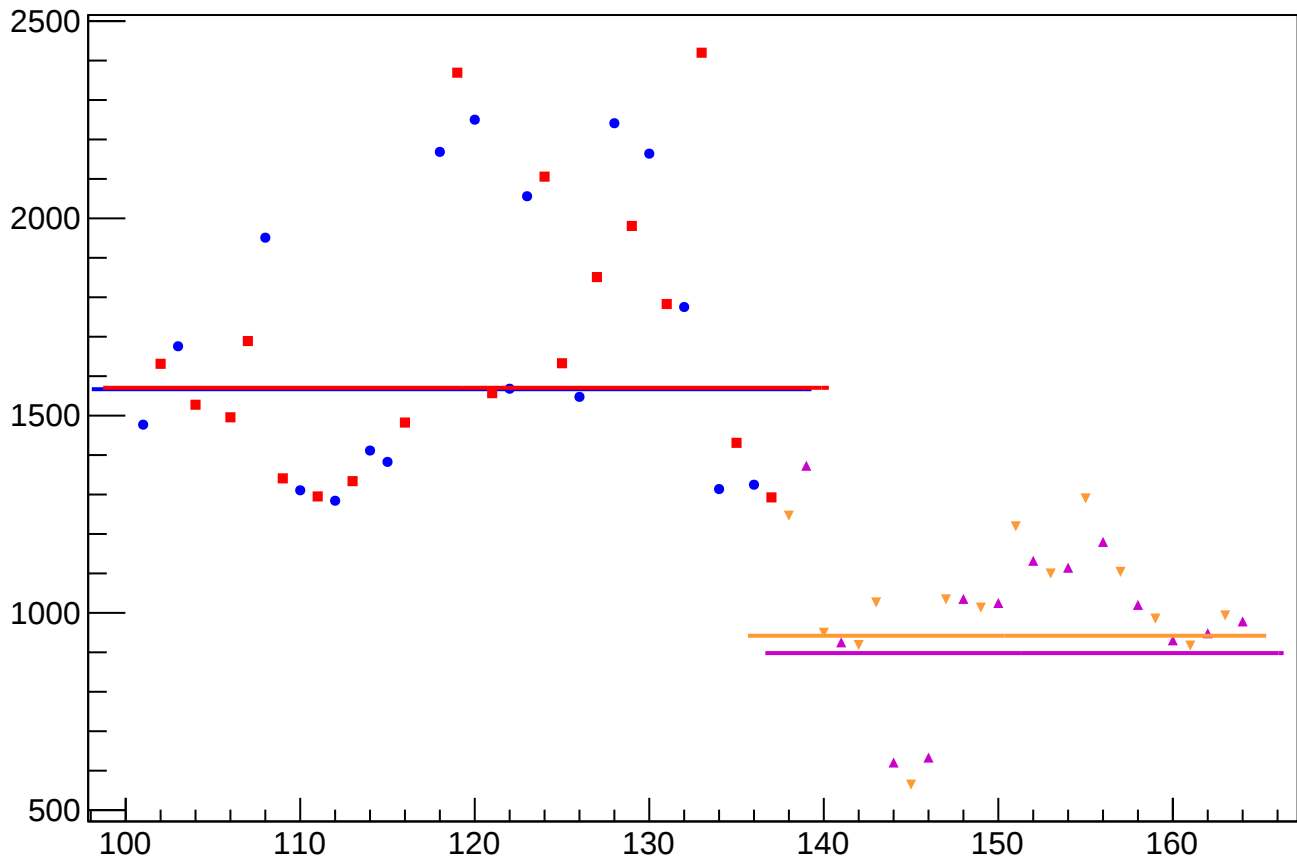
Left In: 35.723+/-287.646  $\chi^2/\text{NDF}$ :8.1/12

+ sign 1388.395+/-267.822  $\chi^2/\text{NDF}$ : 56.5/30

All: 786.757+/-186.448  $\chi^2/\text{NDF}$ : 84.9/61

- sign 220.969+/-259.720  $\chi^2/\text{NDF}$ : 18.5/30

# asym\_sam3\_rms vs Slug



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 942.048 $\pm$ 0.210  $\chi^2$ /NDF: 1061643.7/13

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

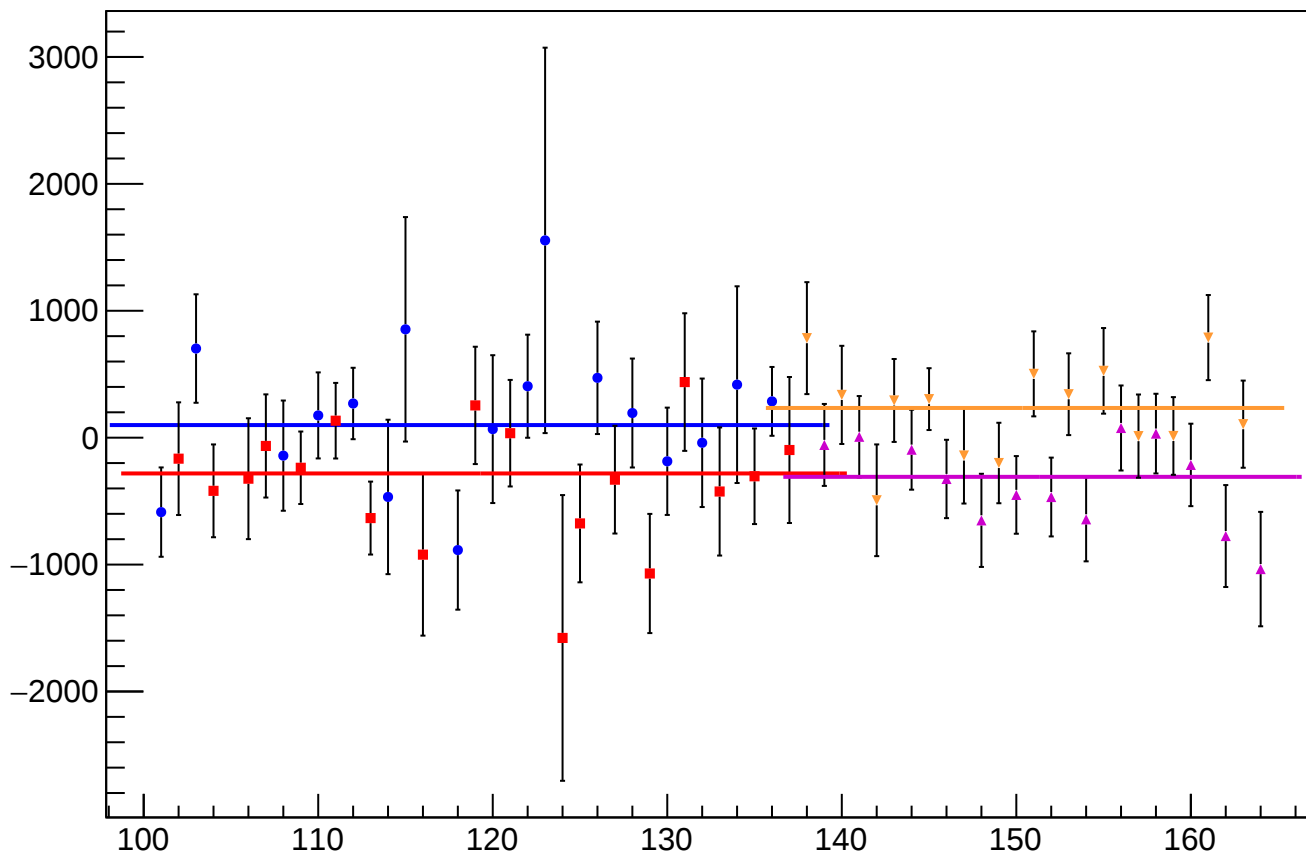
Left In: 898.052 $\pm$ 0.203  $\chi^2$ /NDF: 1105247.5/12

+ sign 1058.419 $\pm$ 0.189  $\chi^2$ /NDF: 3211511.2/30

All: 1039.801 $\pm$ 0.132  $\chi^2$ /NDF: 6794394.5/63

- sign 1022.293 $\pm$ 0.184  $\chi^2$ /NDF: 3564130.3/30

# dit\_asym\_sam4\_mean vs Slug



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $234.168 \pm 89.509$   $\chi^2/\text{NDF}$ : 12.7/13

Right Out:  $-281.830 \pm 97.880$   $\chi^2/\text{NDF}$ : 13.7/17

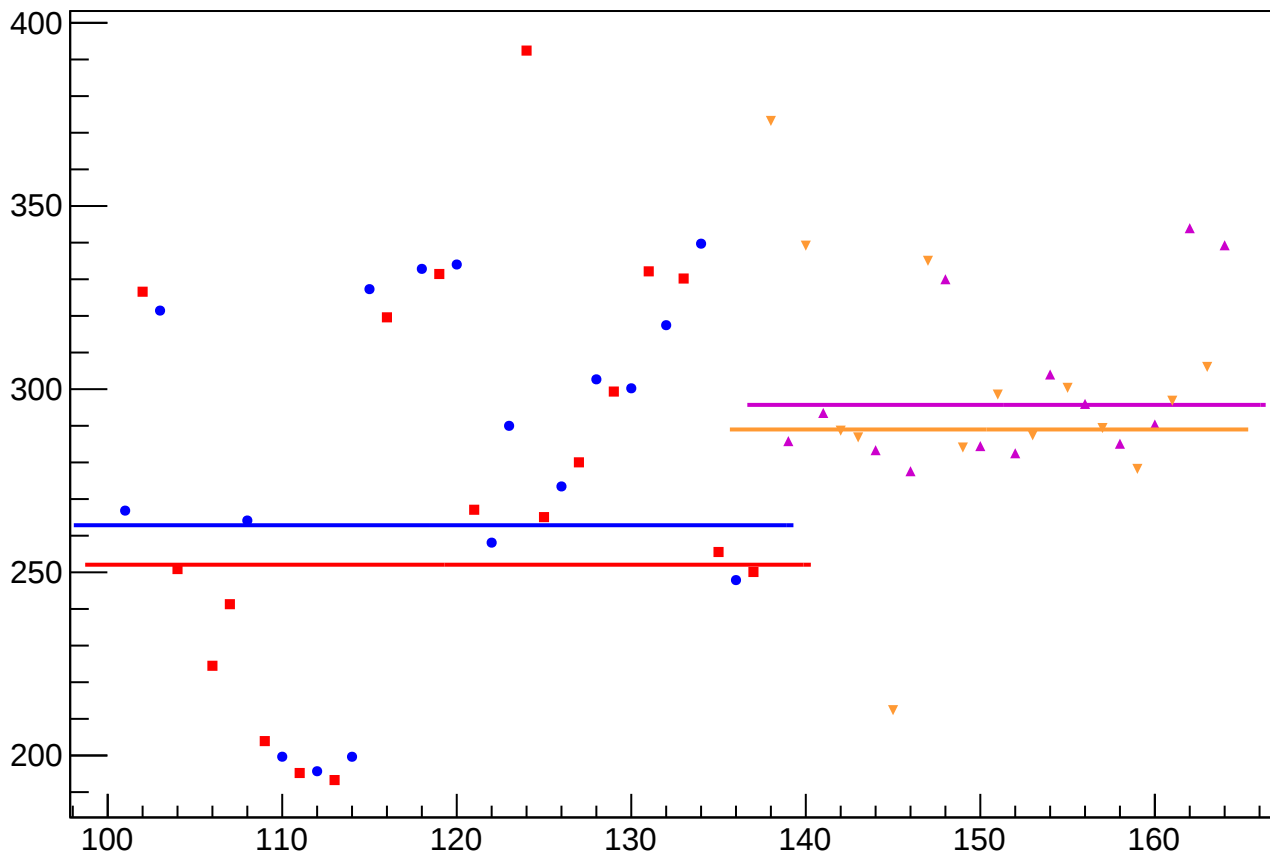
Left In:  $-308.586 \pm 92.402$   $\chi^2/\text{NDF}$ : 10.9/12

+ sign  $176.474 \pm 67.692$   $\chi^2/\text{NDF}$ : 29.6/30

All:  $-61.507 \pm 47.688$   $\chi^2/\text{NDF}$ : 78.8/61

- sign  $-295.977 \pm 67.191$   $\chi^2/\text{NDF}$ : 24.7/30

# dit\_asym\_sam4\_rms vs Slug



Right In:  $262.856 \pm 0.073$   $\chi^2/\text{NDF}$ : 411698.3/16

Left Out:  $288.997 \pm 0.063$   $\chi^2/\text{NDF}$ : 347088.4/13

Right Out:  $252.079 \pm 0.069$   $\chi^2/\text{NDF}$ : 515150.4/17

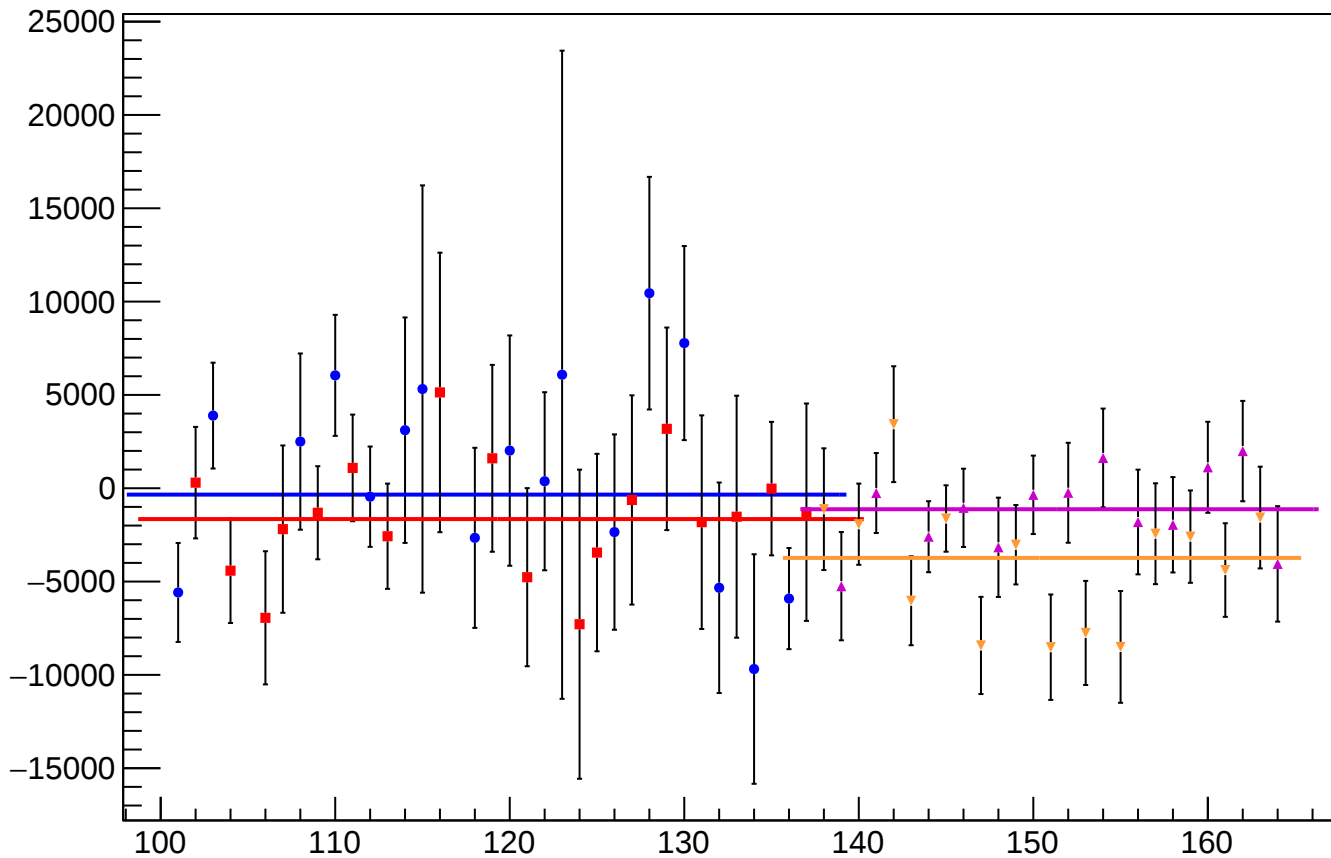
Left In:  $295.710 \pm 0.065$   $\chi^2/\text{NDF}$ : 87332.5/12

+ sign  $277.807 \pm 0.048$   $\chi^2/\text{NDF}$ : 831806.5/30

All:  $276.469 \pm 0.034$   $\chi^2/\text{NDF}$ : 1645974.3/61

- sign  $275.150 \pm 0.048$   $\chi^2/\text{NDF}$ : 812615.2/30

# asym\_sam4\_correction\_mean vs Slug



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}$ : 24.4/16

Left Out:  $-3732.339 \pm 669.763$   $\chi^2/\text{NDF}$ : 21.0/13

Right Out:  $-1651.954 \pm 929.858$   $\chi^2/\text{NDF}$ : 7.9/17

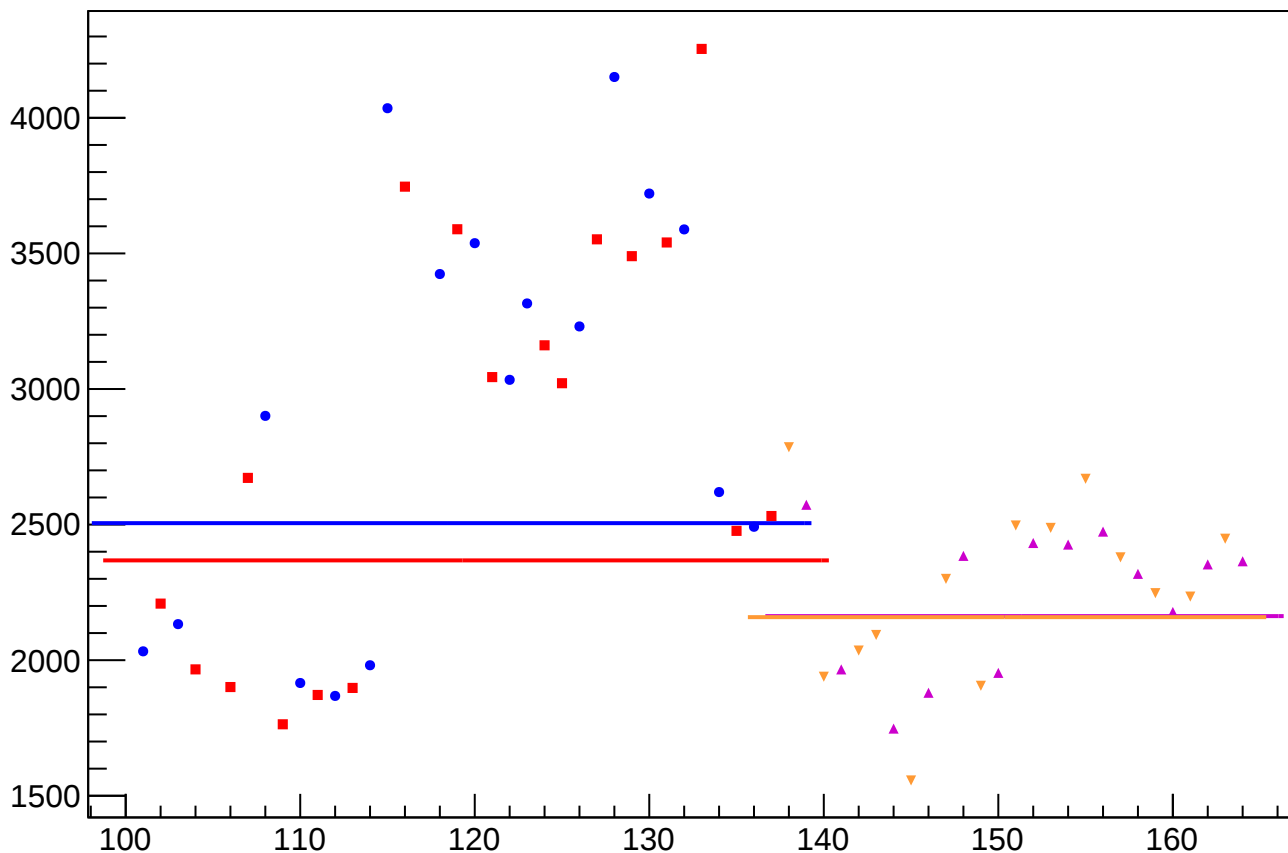
Left In:  $-1125.071 \pm 676.925$   $\chi^2/\text{NDF}$ : 8.0/12

+ sign  $-2689.001 \pm 557.275$   $\chi^2/\text{NDF}$ : 53.3/30

All:  $-1985.774 \pm 390.467$   $\chi^2/\text{NDF}$ : 72.5/61

- sign  $-1307.578 \pm 547.267$   $\chi^2/\text{NDF}$ : 16.1/30

# asym\_sam4\_correction\_rms vs Slug



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2158.669+/-0.474  $\chi^2/\text{NDF}$ : 517133.7/13

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

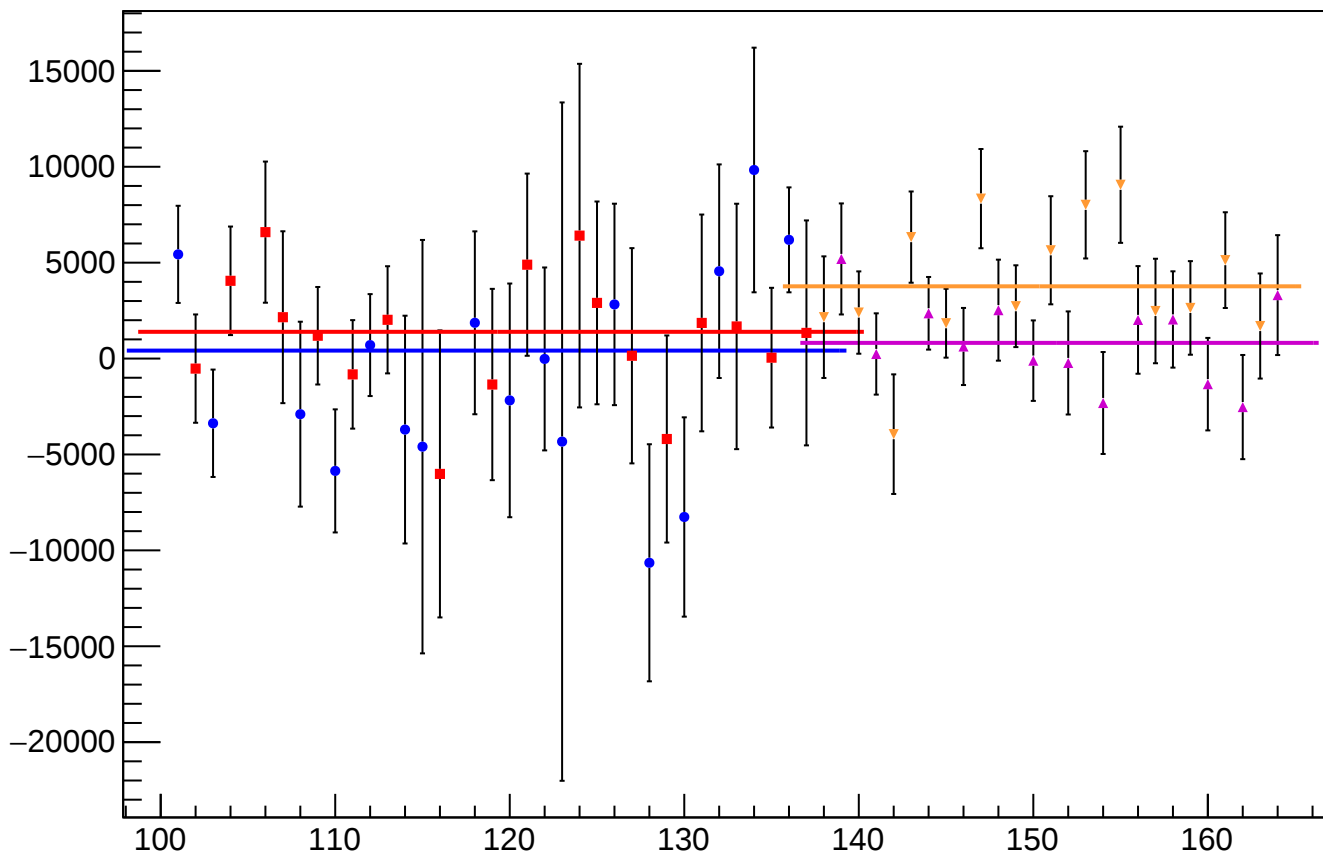
Left In: 2162.545+/-0.479  $\chi^2/\text{NDF}$ : 313169.5/12

+ sign 2265.335+/-0.394  $\chi^2/\text{NDF}$ : 1546128.6/30

All: 2249.238+/-0.276  $\chi^2/\text{NDF}$ : 2957276.8/63

- sign 2233.714+/-0.387  $\chi^2/\text{NDF}$ : 1407870.1/30

# asym\_sam4\_mean vs Slug



Right In: 415.549 $\pm$ 994.913  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: 3766.701 $\pm$ 668.913  $\chi^2/\text{NDF}$ : 19.6/13

Right Out: 1394.660 $\pm$ 928.996  $\chi^2/\text{NDF}$ : 7.5/17

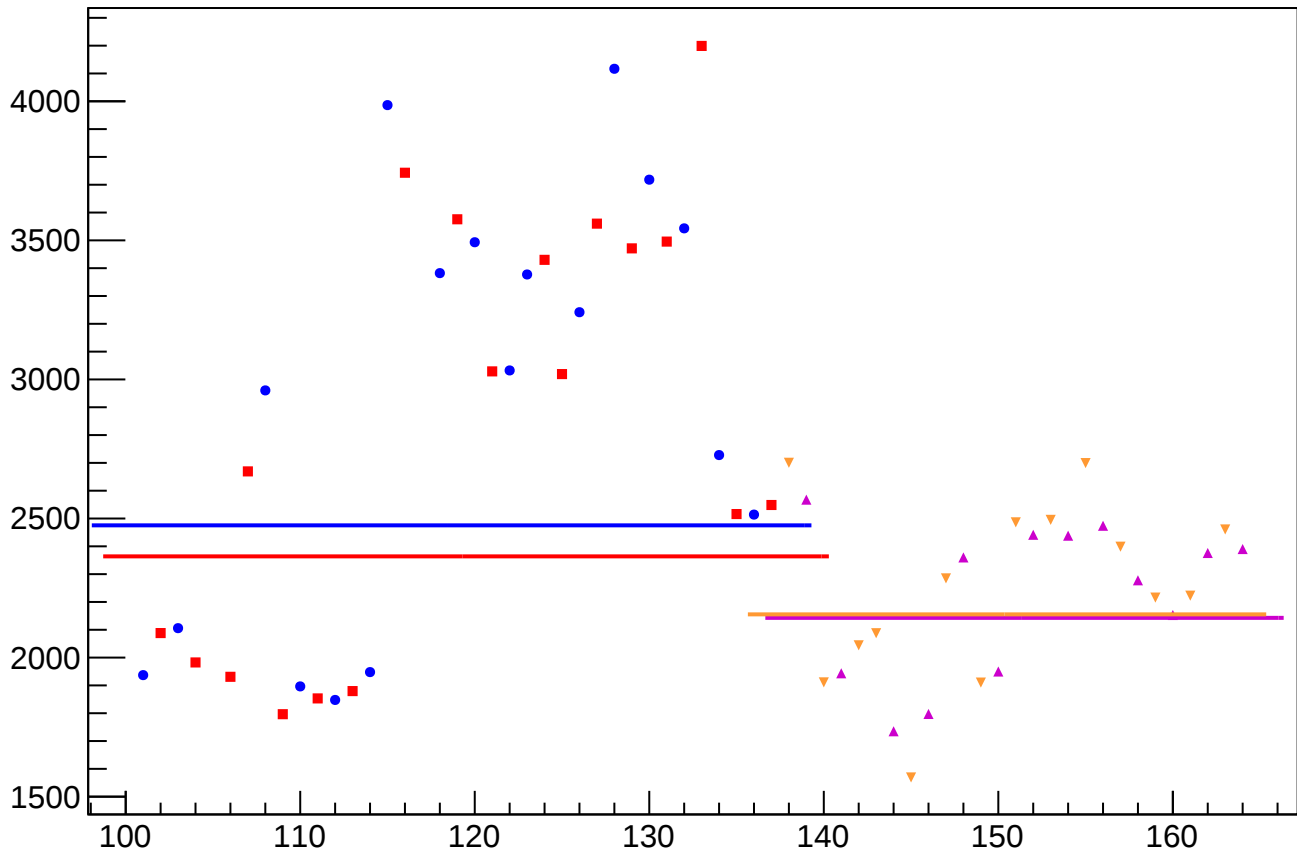
Left In: 817.981 $\pm$ 671.873  $\chi^2/\text{NDF}$ : 8.6/12

+ sign 2723.454 $\pm$ 555.113  $\chi^2/\text{NDF}$ : 51.9/30

All: 1853.127 $\pm$ 388.686  $\chi^2/\text{NDF}$ : 73.0/61

- sign 1016.026 $\pm$ 544.414  $\chi^2/\text{NDF}$ : 16.3/30

# asym\_sam4\_rms vs Slug



Right In: 2475.435+/-0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 2155.385+/-0.473  $\chi^2/\text{NDF}$ : 499014.6/13

Right Out: 2363.907+/-0.657  $\chi^2/\text{NDF}$ : 1026875.6/17

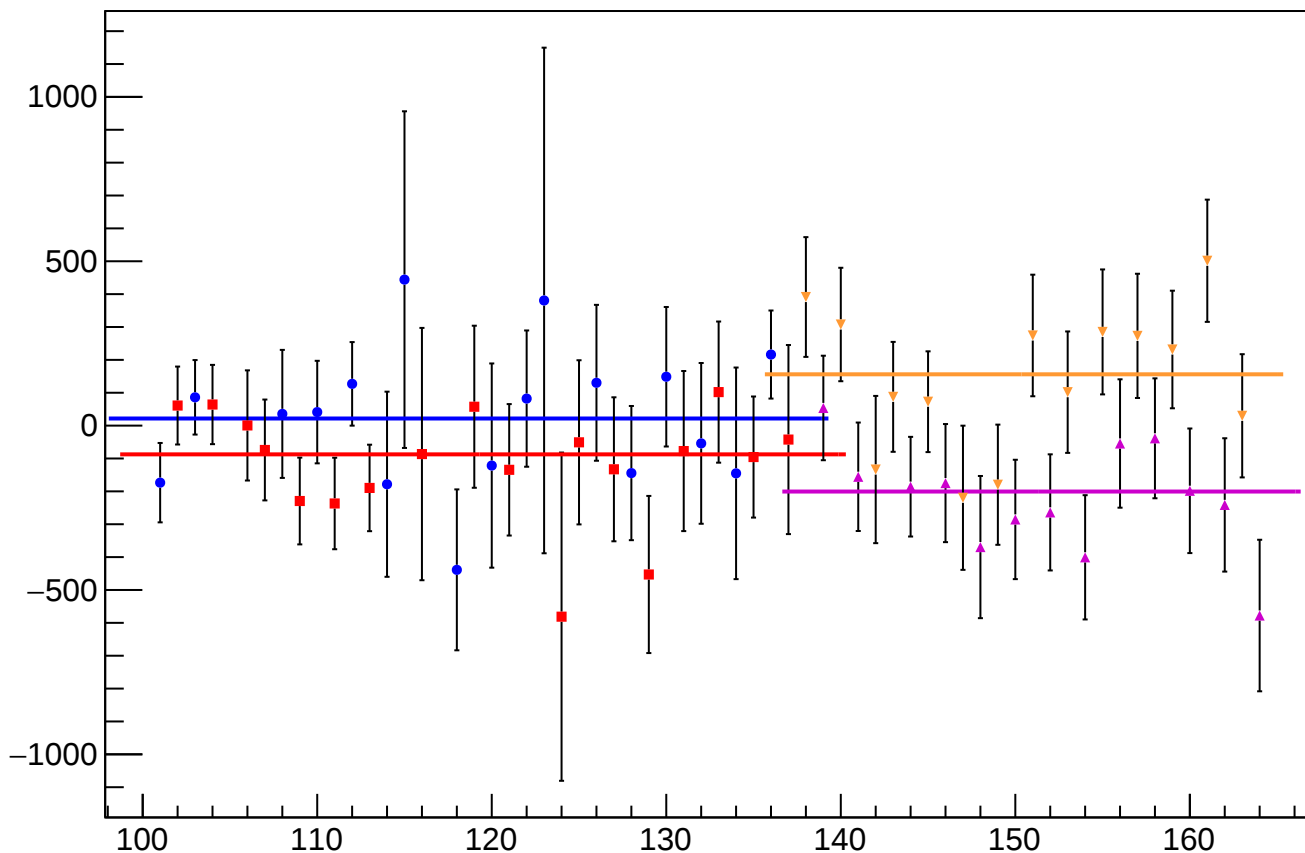
Left In: 2142.852+/-0.475  $\chi^2/\text{NDF}$ : 353477.4/12

+ sign 2255.019+/-0.393  $\chi^2/\text{NDF}$ : 1554622.2/30

All: 2236.541+/-0.275  $\chi^2/\text{NDF}$ : 3013674.2/63

- sign 2218.768+/-0.385  $\chi^2/\text{NDF}$ : 1454704.2/30

# dit\_asym\_sam5\_mean vs Slug



Right In:  $21.649 \pm 45.157$   $\chi^2/\text{NDF}: 12.6/16$

Left Out:  $156.091 \pm 49.054$   $\chi^2/\text{NDF}: 16.3/13$

Right Out:  $-87.439 \pm 41.826$   $\chi^2/\text{NDF}: 10.9/17$

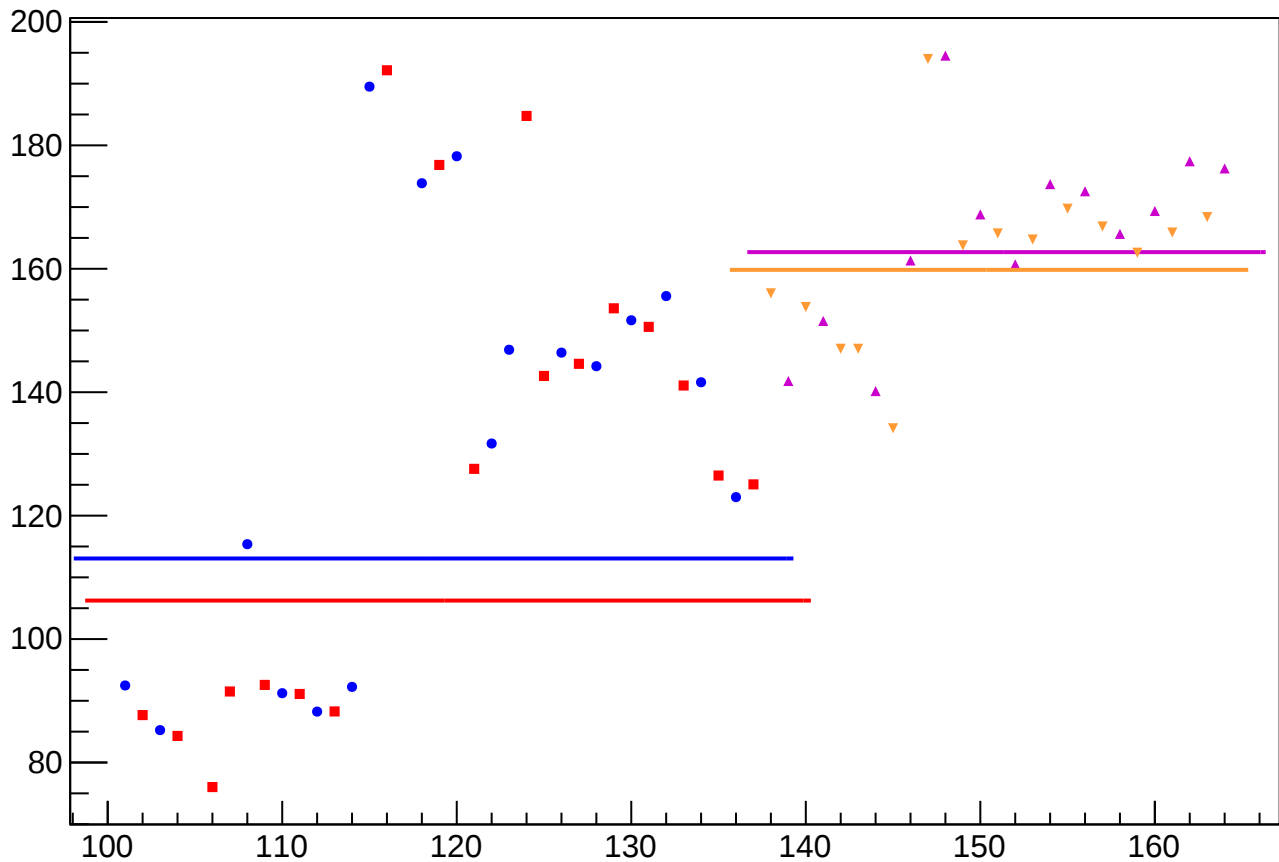
Left In:  $-200.544 \pm 50.648$   $\chi^2/\text{NDF}: 8.8/12$

+ sign  $83.318 \pm 33.223$   $\chi^2/\text{NDF}: 33.0/30$

All:  $-28.207 \pm 23.141$   $\chi^2/\text{NDF}: 77.5/61$

- sign  $-133.299 \pm 32.251$   $\chi^2/\text{NDF}: 22.7/30$

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.059 $\pm$ 0.032  $\chi^2$ /NDF: 820795.9/16

Left Out: 159.827 $\pm$ 0.035  $\chi^2$ /NDF:145533.4/13

Right Out: 106.240 $\pm$ 0.030  $\chi^2$ /NDF: 951702.9/17

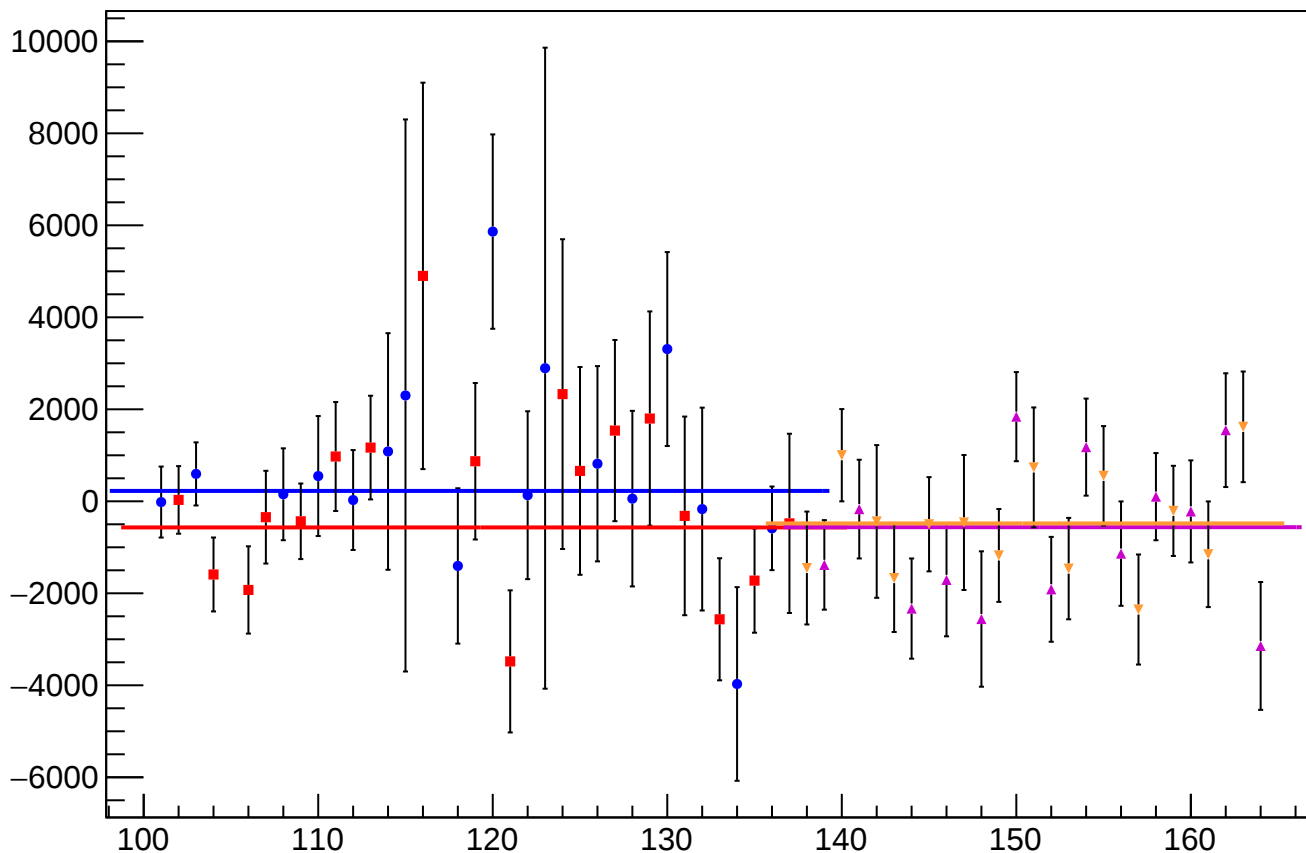
Left In: 162.700 $\pm$ 0.036  $\chi^2$ /NDF:166088.9/12

+ sign 134.512 $\pm$ 0.023  $\chi^2$ /NDF: 1950398.0/30

All: 131.742 $\pm$ 0.016  $\chi^2$ /NDF: 4572809.7/61

- sign 129.133 $\pm$ 0.023  $\chi^2$ /NDF: 2595419.5/30

# asym\_sam5\_correction\_mean vs Slug



Right In:  $225.635 \pm 321.412$   $\chi^2/\text{NDF}$ : 16.0/16

Left Out:  $-480.654 \pm 307.128$   $\chi^2/\text{NDF}$ : 12.8/13

Right Out:  $-568.109 \pm 290.500$   $\chi^2/\text{NDF}$ : 21.0/17

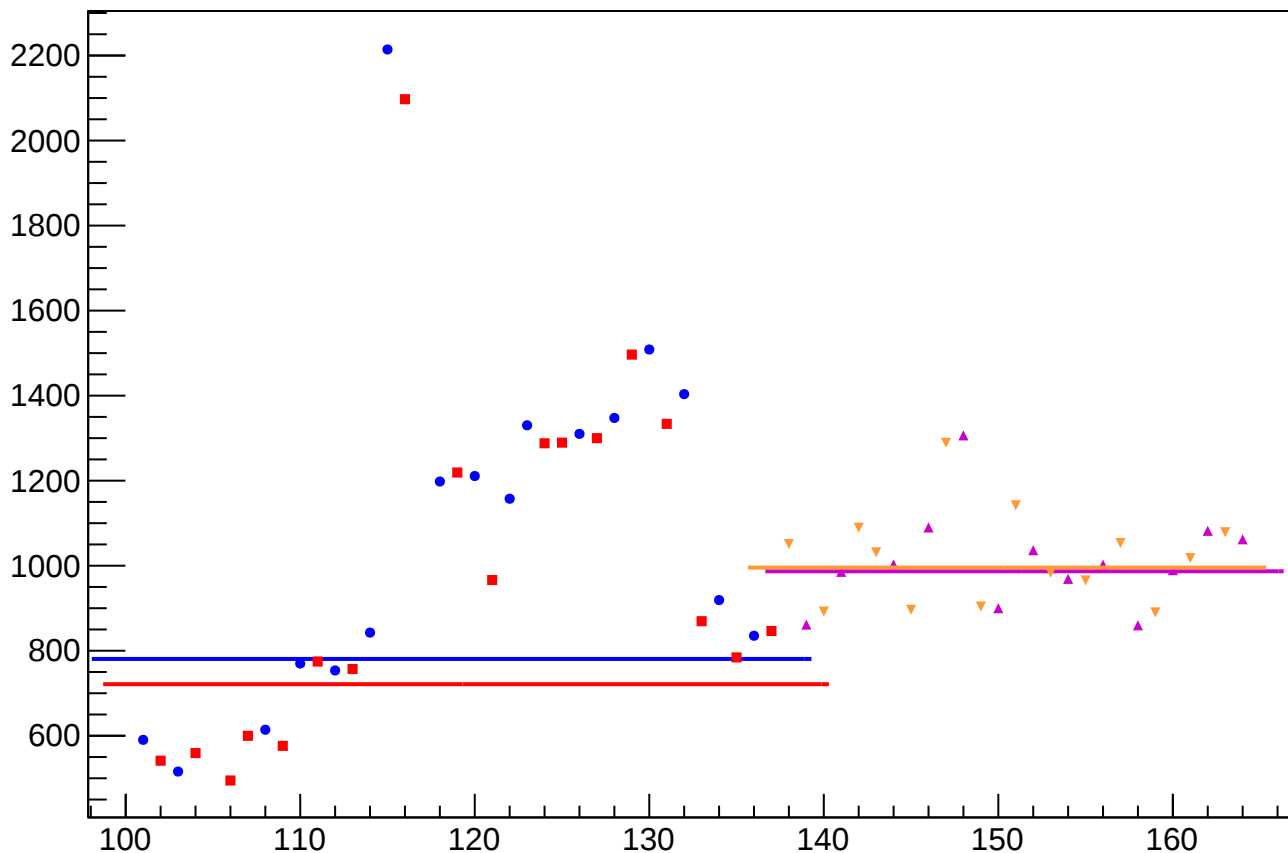
Left In:  $-562.860 \pm 308.613$   $\chi^2/\text{NDF}$ : 23.7/12

+ sign  $-143.552 \pm 222.050$   $\chi^2/\text{NDF}$ : 31.3/30

All:  $-364.835 \pm 153.158$   $\chi^2/\text{NDF}$ : 77.8/61

- sign  $-565.643 \pm 211.528$   $\chi^2/\text{NDF}$ : 44.7/30

# asym\_sam5\_correction\_rms vs Slug



Right In: 780.700+/-0.227  $\chi^2/\text{NDF}$ : 1609510.2/16

Left Out: 995.633+/-0.217  $\chi^2/\text{NDF}$ : 214066.8/13

Right Out: 721.264+/-0.205  $\chi^2/\text{NDF}$ : 1626627.9/17

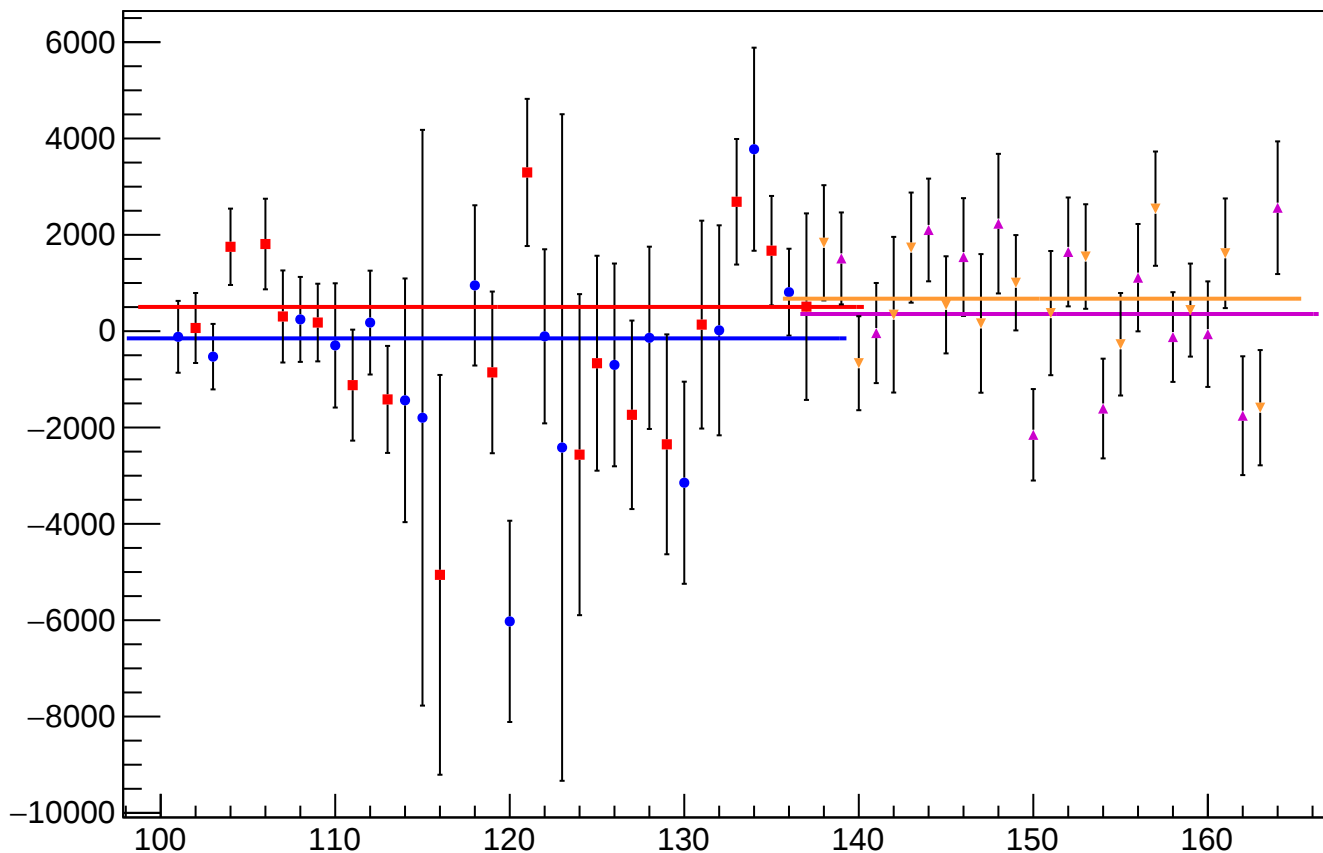
Left In: 986.889+/-0.218  $\chi^2/\text{NDF}$ : 216607.5/12

+ sign 893.048+/-0.157  $\chi^2/\text{NDF}$ : 2291071.7/30

All: 868.411+/-0.108  $\chi^2/\text{NDF}$ : 4966841.0/61

- sign 846.053+/-0.150  $\chi^2/\text{NDF}$ : 2628803.5/30

# asym\_sam5\_mean vs Slug



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $674.426 \pm 301.878$   $\chi^2/\text{NDF}$ : 12.3/13

Right Out:  $503.162 \pm 285.781$   $\chi^2/\text{NDF}$ : 23.6/17

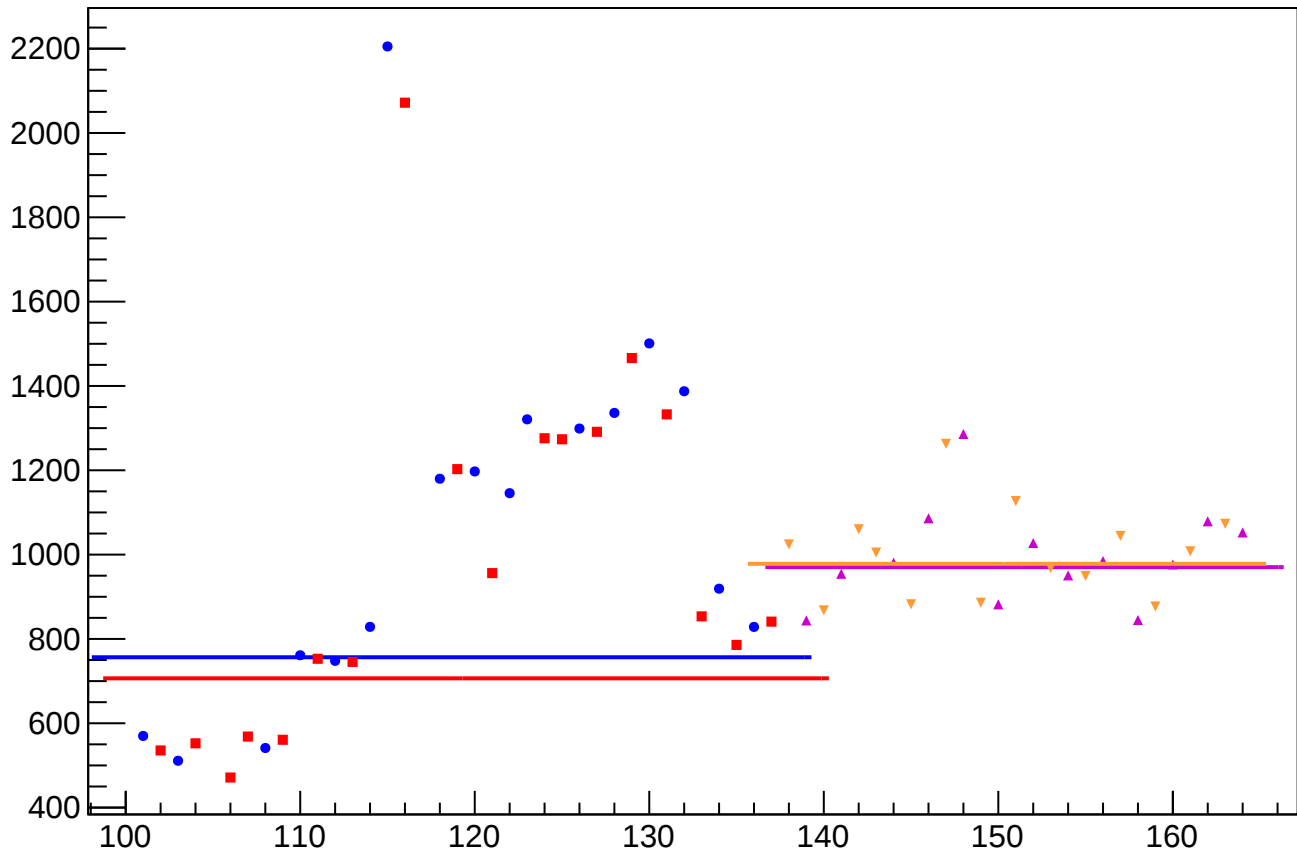
Left In:  $356.544 \pm 303.586$   $\chi^2/\text{NDF}$ : 25.1/12

+ sign  $277.476 \pm 217.273$   $\chi^2/\text{NDF}$ : 32.0/30

All:  $359.262 \pm 150.283$   $\chi^2/\text{NDF}$ : 81.1/61

- sign  $434.278 \pm 208.087$   $\chi^2/\text{NDF}$ : 48.9/30

# asym\_sam5\_rms vs Slug



Right In: 756.539+/-0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 978.174+/-0.213  $\chi^2/\text{NDF}$ : 218930.6/13

+ sign 871.351+/-0.154  $\chi^2/\text{NDF}$ : 2452174.6/30

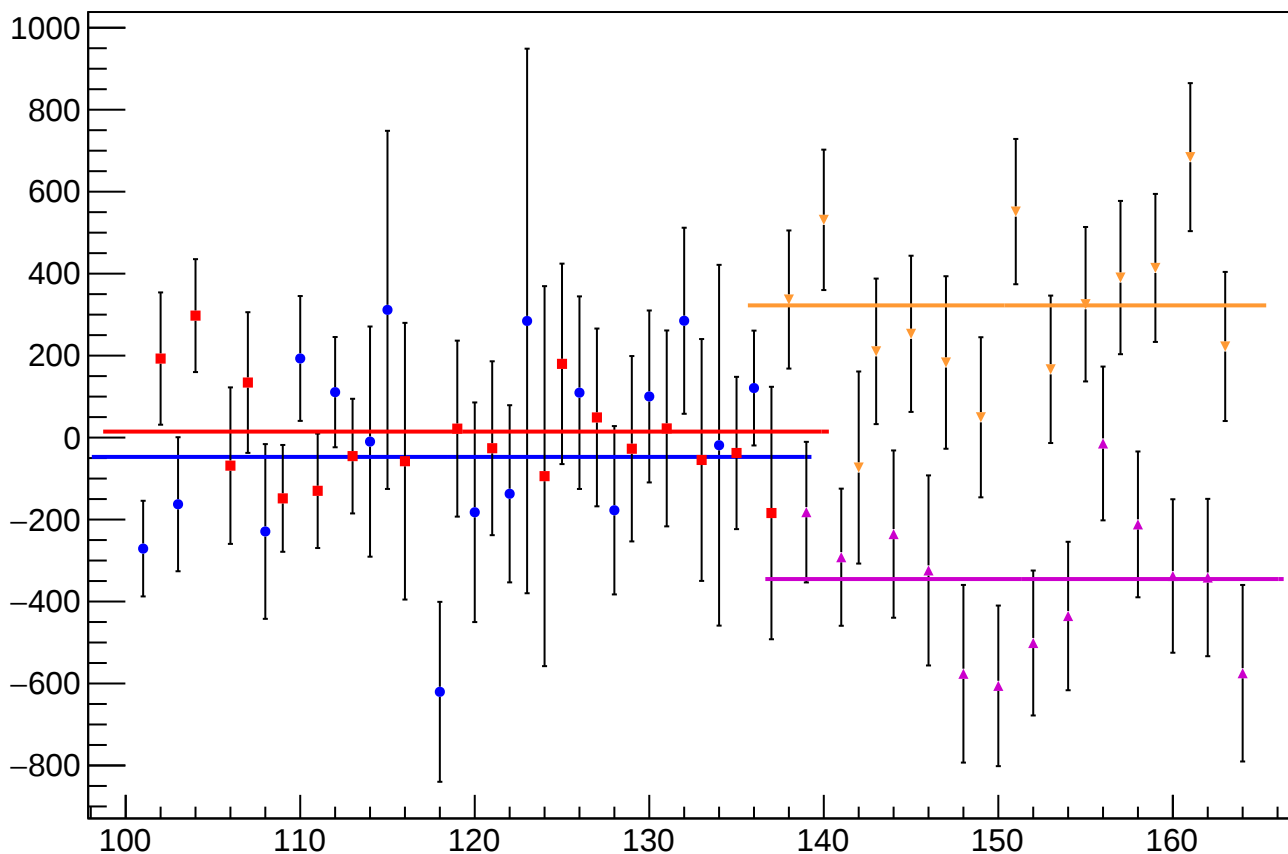
Right Out: 706.550+/-0.202  $\chi^2/\text{NDF}$ : 1670007.9/17

All: 850.018+/-0.106  $\chi^2/\text{NDF}$ : 5190467.9/61

- sign 830.450+/-0.147  $\chi^2/\text{NDF}$ : 2701325.8/30

Left In: 970.269+/-0.215  $\chi^2/\text{NDF}$ : 231162.0/12

# dit\_asym\_sam6\_mean vs Slug



Right In: -47.157 $\pm$ 47.269  $\chi^2/\text{NDF}$ : 21.9/16

Left Out: 322.551 $\pm$ 49.591  $\chi^2/\text{NDF}$ :14.4/13

Right Out: 14.620 $\pm$ 44.849  $\chi^2/\text{NDF}$ : 10.1/17

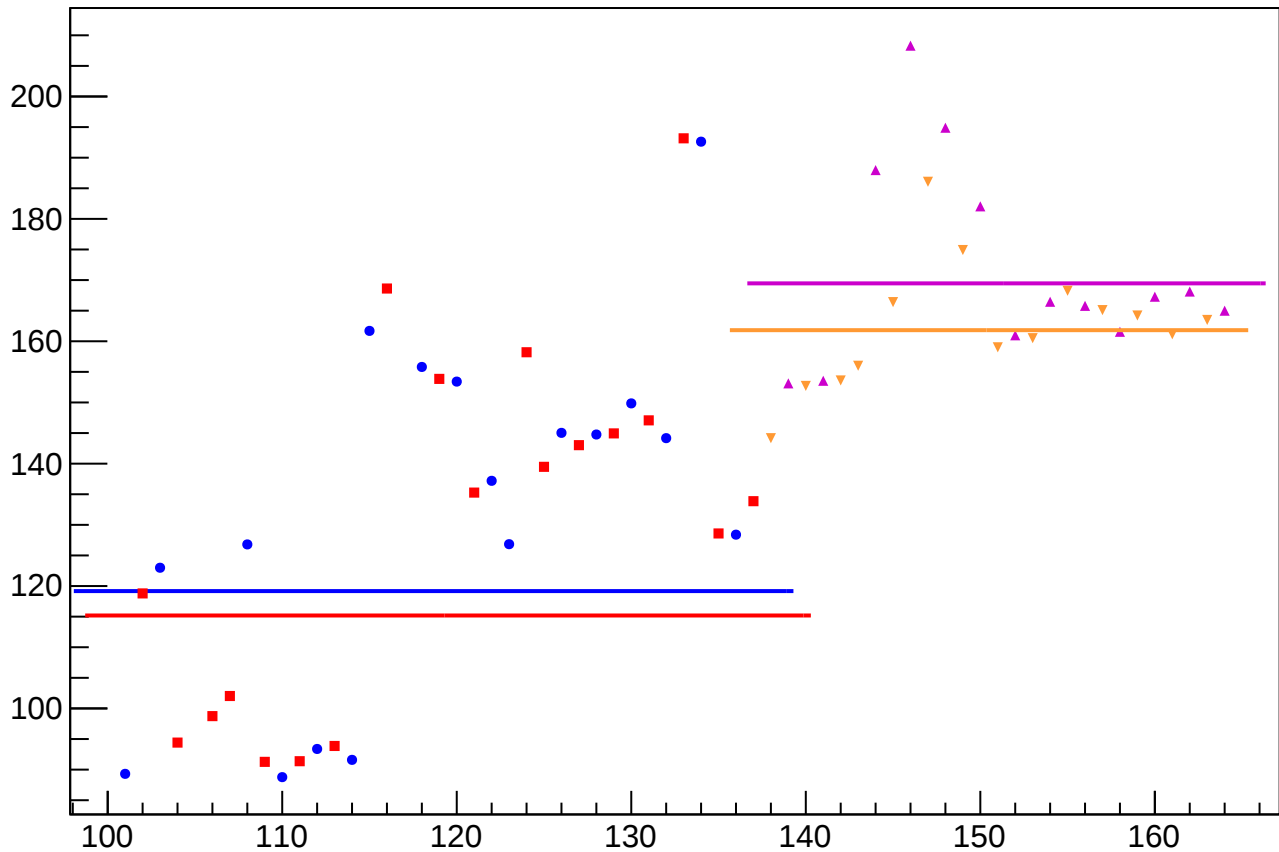
Left In: -345.156 $\pm$ 52.751  $\chi^2/\text{NDF}$ :10.0/12

+ sign 128.839 $\pm$ 34.215  $\chi^2/\text{NDF}$ : 65.4/30

All: -3.925 $\pm$ 24.178  $\chi^2/\text{NDF}$ : 142.7/61

- sign -136.329 $\pm$ 34.169  $\chi^2/\text{NDF}$ : 47.2/30

# dit\_asym\_sam6\_rms vs Slug



Right In:  $119.175 \pm 0.033$   $\chi^2/\text{NDF}$ : 615304.2/16

Left Out:  $161.813 \pm 0.035$   $\chi^2/\text{NDF}$ : 73018.4/13

Right Out:  $115.188 \pm 0.032$   $\chi^2/\text{NDF}$ : 675564.7/17

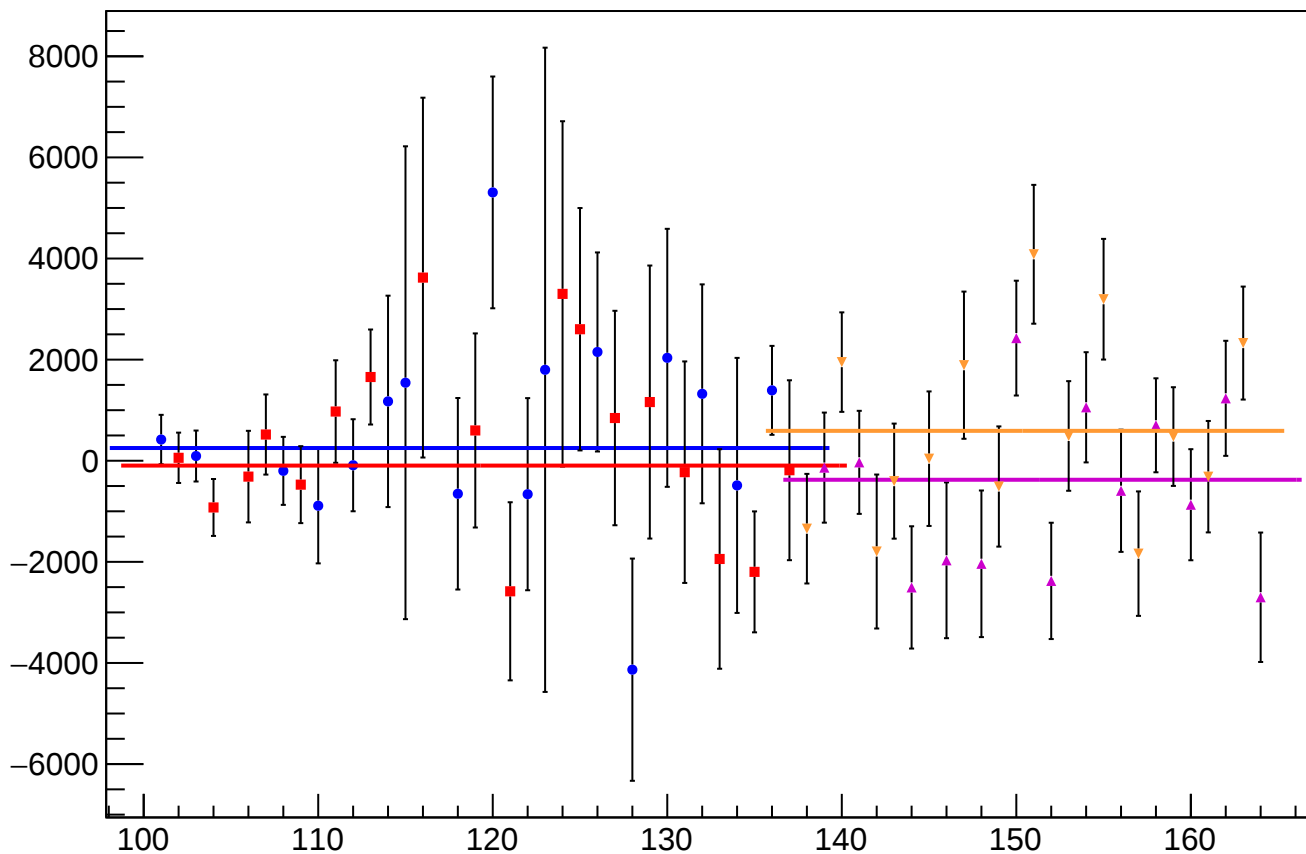
Left In:  $169.463 \pm 0.037$   $\chi^2/\text{NDF}$ : 155736.5/12

+ sign  $139.473 \pm 0.024$   $\chi^2/\text{NDF}$ : 1463005.1/30

All:  $138.715 \pm 0.017$   $\chi^2/\text{NDF}$ : 3525166.6/61

- sign  $137.959 \pm 0.024$   $\chi^2/\text{NDF}$ : 2060202.9/30

# asym\_sam6\_correction\_mean vs Slug



Right In:  $251.733 \pm 252.819$   $\chi^2/\text{NDF}$ : 14.9/16

Left Out:  $591.256 \pm 312.370$   $\chi^2/\text{NDF}$ : 28.4/13

Right Out:  $-95.805 \pm 245.748$   $\chi^2/\text{NDF}$ : 17.5/17

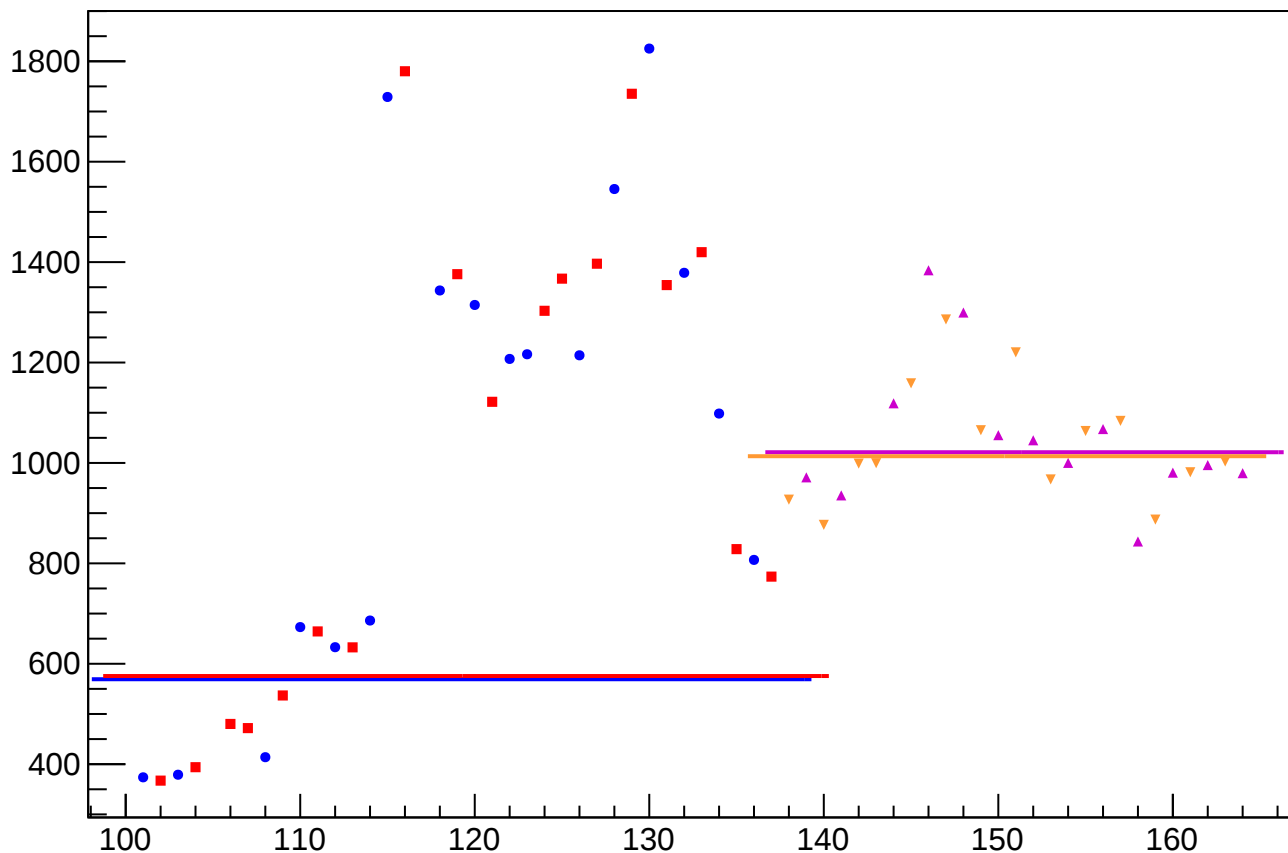
Left In:  $-376.246 \pm 319.226$   $\chi^2/\text{NDF}$ : 23.4/12

+ sign  $386.113 \pm 196.519$   $\chi^2/\text{NDF}$ : 44.0/30

All:  $90.297 \pm 138.323$   $\chi^2/\text{NDF}$ : 89.8/61

- sign  $-200.159 \pm 194.730$   $\chi^2/\text{NDF}$ : 41.3/30

# asym\_sam6\_correction\_rms vs Slug



Right In: 569.200+/-0.179  $\chi^2/\text{NDF}$ : 3267047.1/16

Left Out: 1013.411+/-0.221  $\chi^2/\text{NDF}$ : 243906.0/13

Right Out: 575.584+/-0.174  $\chi^2/\text{NDF}$ : 3058273.5/17

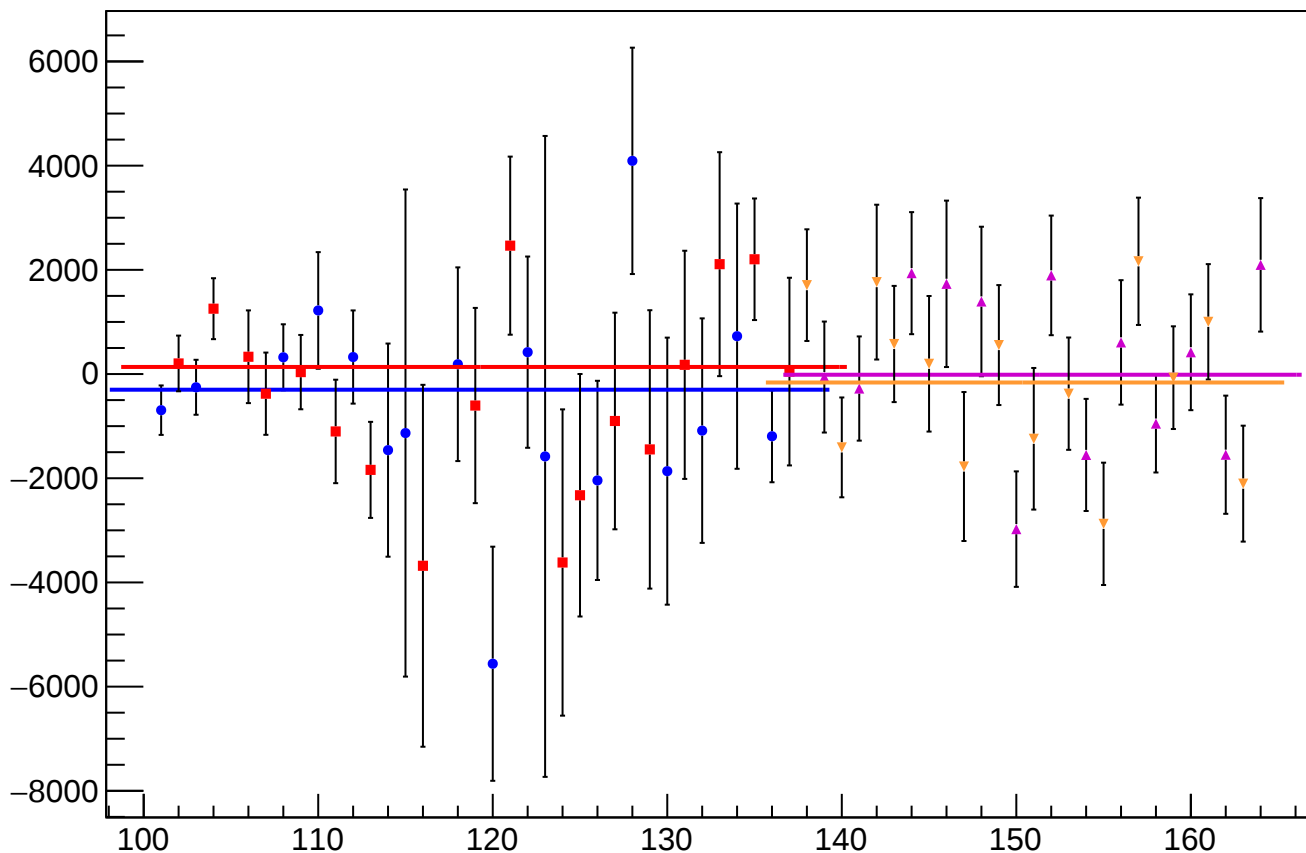
Left In: 1021.350+/-0.226  $\chi^2/\text{NDF}$ : 301055.2/12

+ sign 745.015+/-0.139  $\chi^2/\text{NDF}$ : 5954698.9/30

All: 743.219+/-0.098  $\chi^2/\text{NDF}$ : 11763045.9/63

- sign 741.456+/-0.138  $\chi^2/\text{NDF}$ : 5808016.0/30

# asym\_sam6\_mean vs Slug



Right In:  $-300.652 \pm 250.302$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-162.300 \pm 308.601$   $\chi^2/\text{NDF}$ : 22.4/13

Right Out:  $136.107 \pm 247.692$   $\chi^2/\text{NDF}$ : 20.9/17

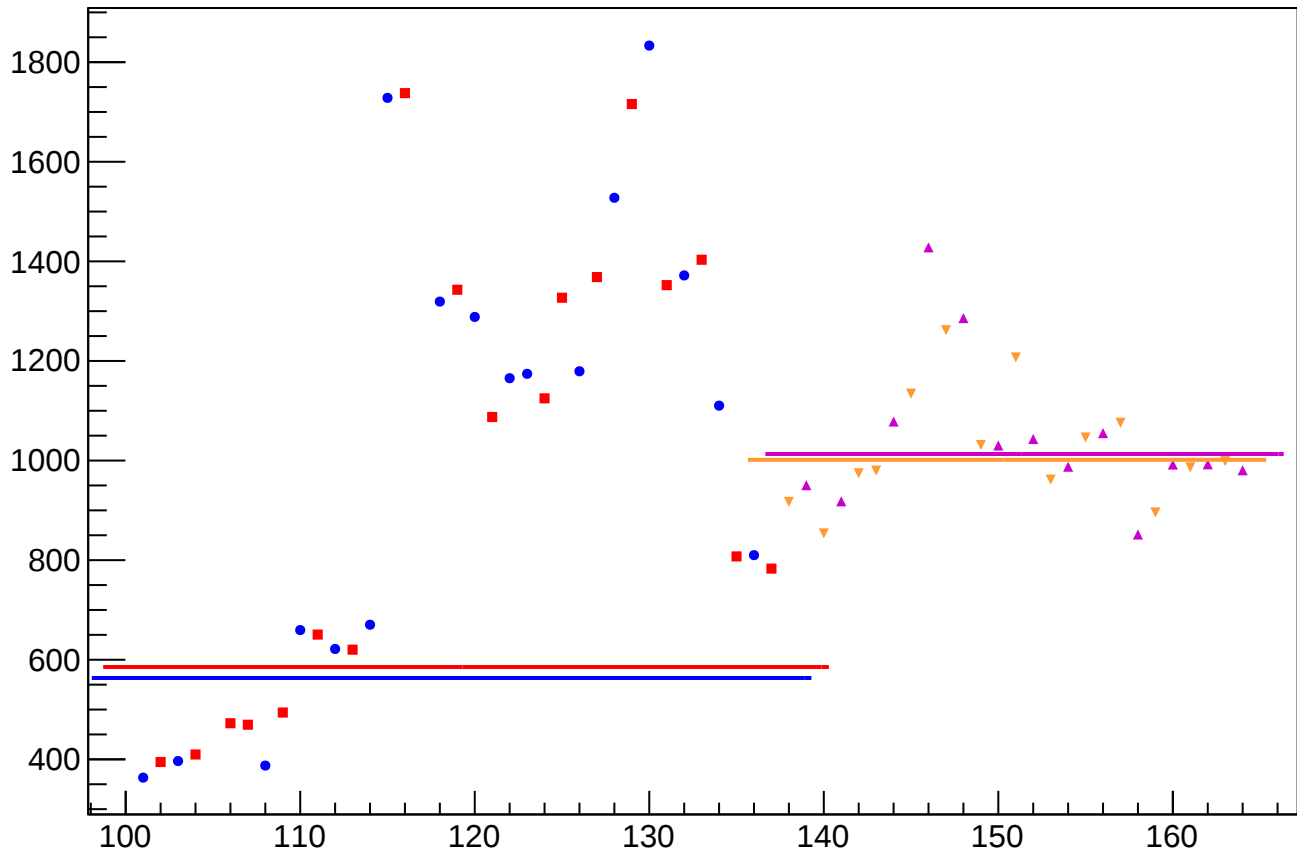
Left In:  $-13.399 \pm 316.917$   $\chi^2/\text{NDF}$ : 22.9/12

+ sign  $-245.752 \pm 194.397$   $\chi^2/\text{NDF}$ : 39.2/30

All:  $-83.804 \pm 137.728$   $\chi^2/\text{NDF}$ : 84.5/61

- sign  $79.413 \pm 195.157$   $\chi^2/\text{NDF}$ : 43.9/30

# asym\_sam6\_rms vs Slug



Right In: 563.393 $\pm$ 0.177  $\chi^2$ /NDF: 3259045.7/16

Left Out: 1001.504 $\pm$ 0.218  $\chi^2$ /NDF:232061.8/13

Right Out: 585.438 $\pm$ 0.175  $\chi^2$ /NDF: 2818143.7/17

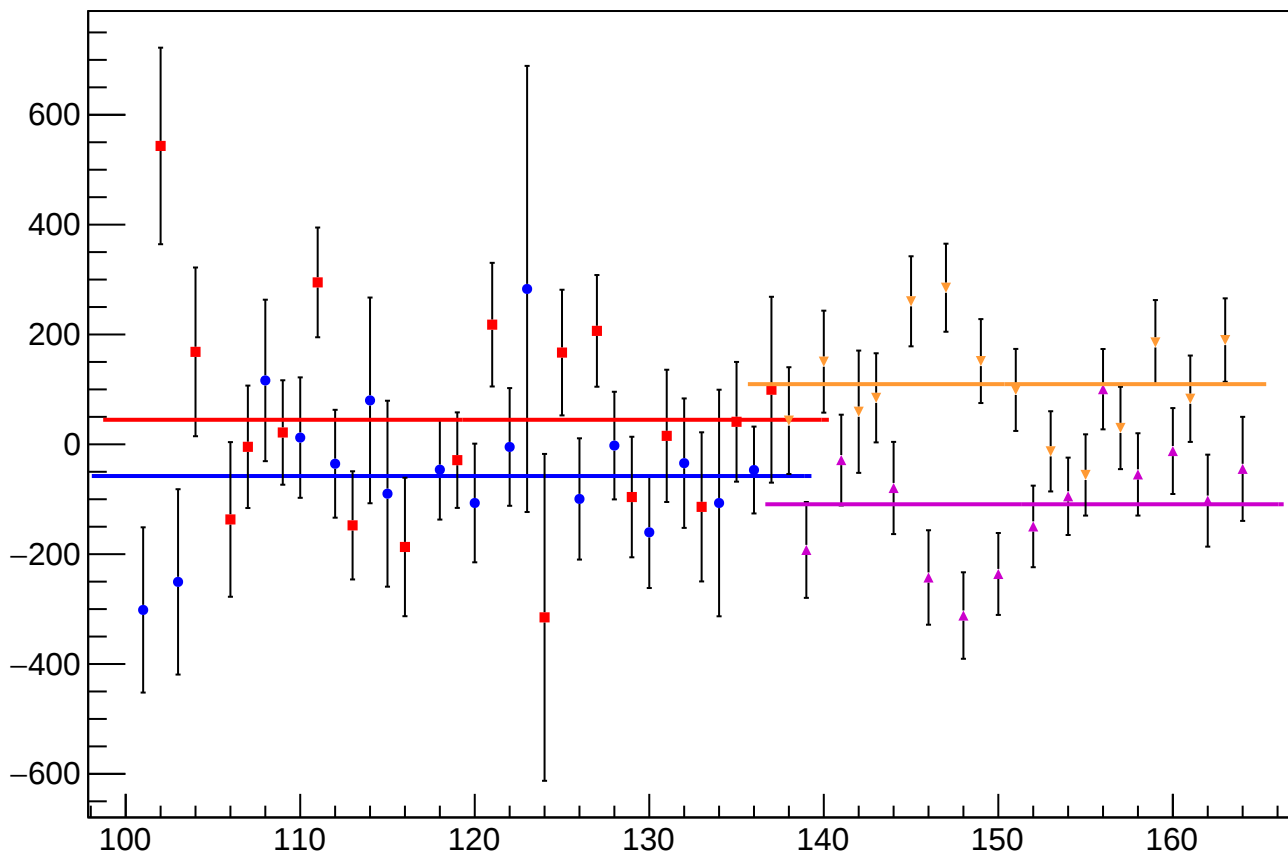
Left In: 1013.181 $\pm$ 0.224  $\chi^2$ /NDF:306029.2/12

+ sign 737.242 $\pm$ 0.137  $\chi^2$ /NDF: 5922504.6/30

All: 742.422 $\pm$ 0.097  $\chi^2$ /NDF: 11311302.2/63

- sign 747.642 $\pm$ 0.138  $\chi^2$ /NDF: 5385946.5/30

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}$ : 9.1/16

Left Out:  $109.591 \pm 21.515$   $\chi^2/\text{NDF}$ : 20.6/13

Right Out:  $44.693 \pm 27.711$   $\chi^2/\text{NDF}$ : 35.2/17

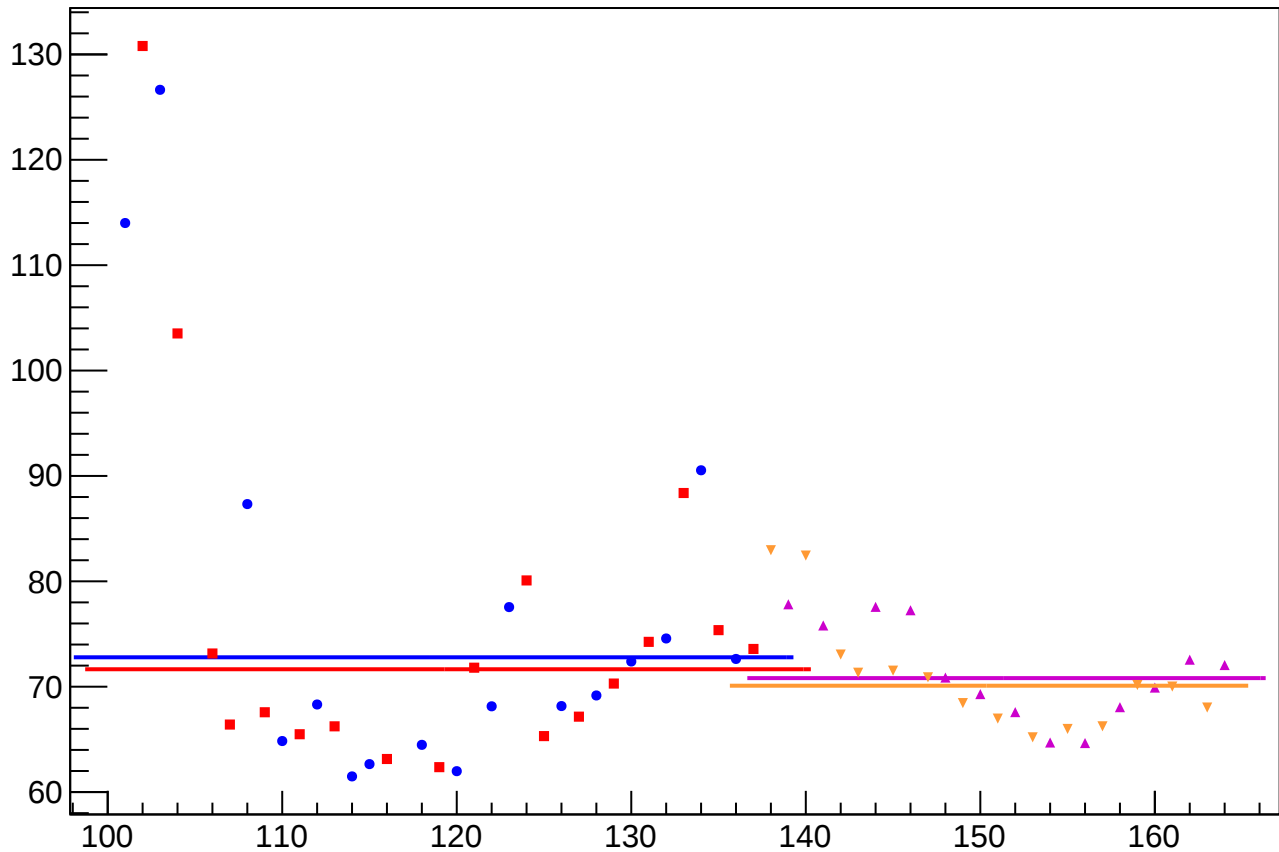
Left In:  $-109.142 \pm 22.026$   $\chi^2/\text{NDF}$ : 25.0/12

+ sign  $49.382 \pm 17.213$   $\chi^2/\text{NDF}$ : 51.5/30

All:  $-0.015 \pm 12.182$   $\chi^2/\text{NDF}$ : 147.0/61

- sign  $-49.581 \pm 17.243$   $\chi^2/\text{NDF}$ : 79.0/30

# dit\_asym\_sam7\_rms vs Slug



Right In: 72.790+/-0.020  $\chi^2/\text{NDF}$ : 464772.9/16

Left Out: 70.094+/-0.015  $\chi^2/\text{NDF}$ : 99418.5/13

Right Out: 71.655+/-0.020  $\chi^2/\text{NDF}$ : 404376.9/17

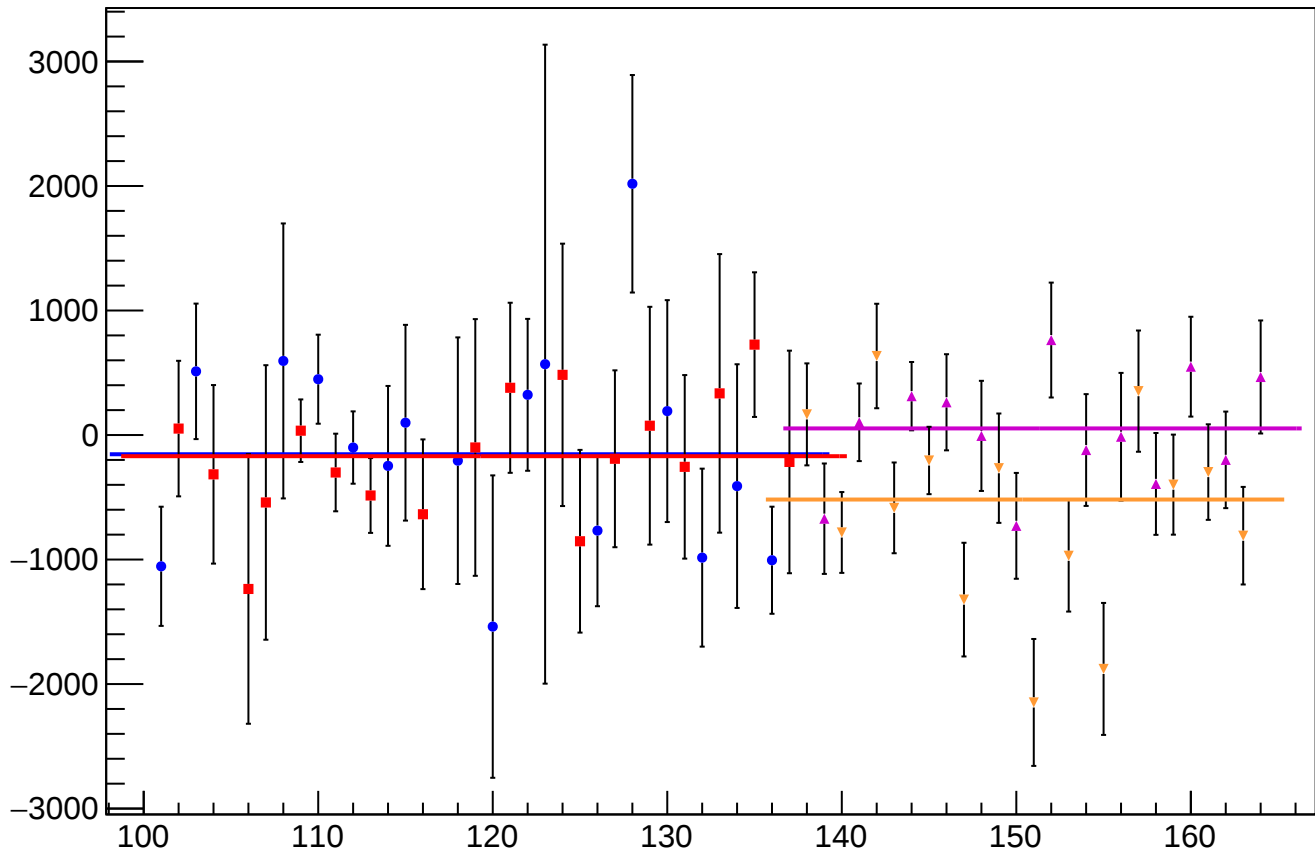
Left In: 70.815+/-0.016  $\chi^2/\text{NDF}$ : 82425.3/12

+ sign 71.064+/-0.012  $\chi^2/\text{NDF}$ : 575490.8/30

All: 71.102+/-0.009  $\chi^2/\text{NDF}$ : 1063440.3/61

- sign 71.140+/-0.012  $\chi^2/\text{NDF}$ : 487930.2/30

# asym\_sam7\_correction\_mean vs Slug



Right In:  $-154.404 \pm 140.700$   $\chi^2/\text{NDF}$ : 23.2/16

Left Out:  $-518.039 \pm 106.350$   $\chi^2/\text{NDF}$ : 37.8/13

Right Out:  $-170.028 \pm 126.220$   $\chi^2/\text{NDF}$ : 8.4/17

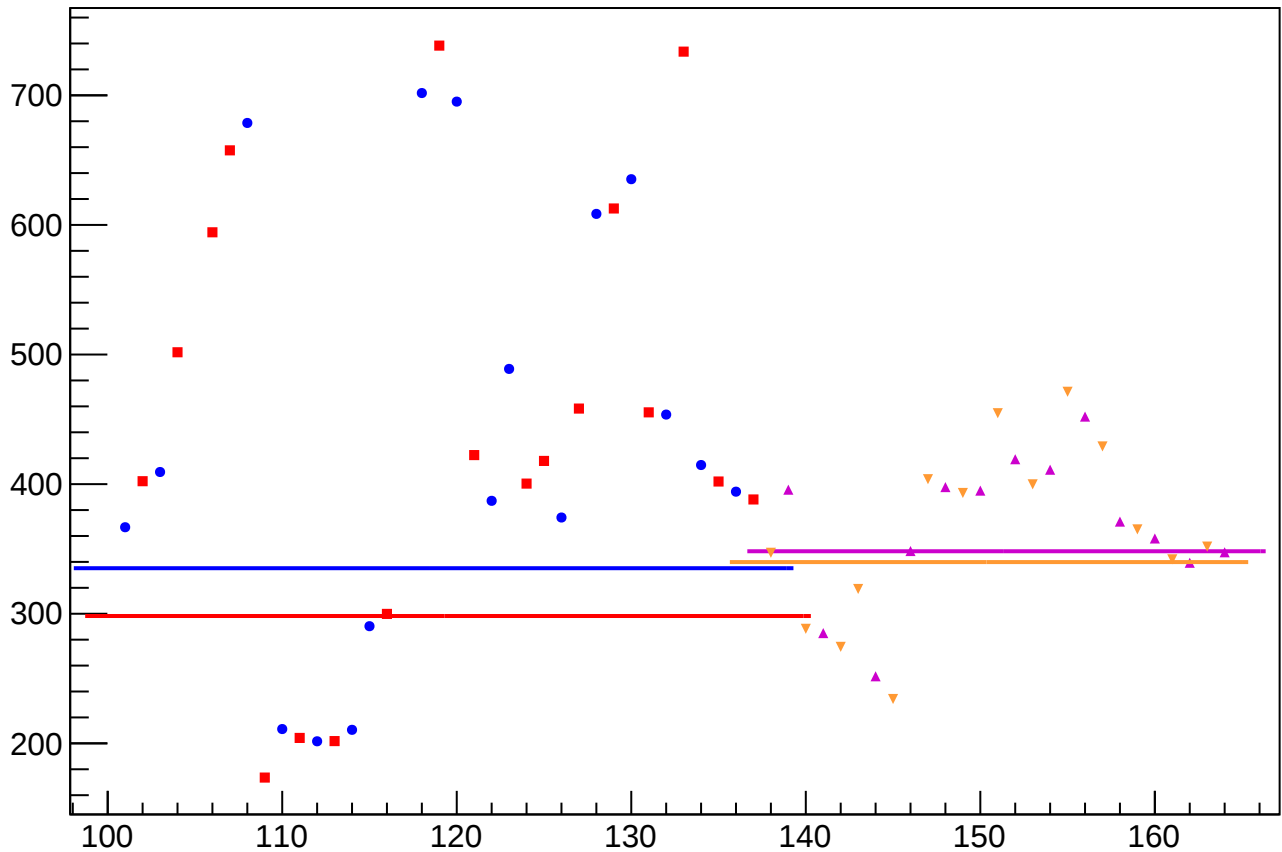
Left In:  $53.020 \pm 109.632$   $\chi^2/\text{NDF}$ : 13.8/12

+ sign  $-385.823 \pm 84.841$   $\chi^2/\text{NDF}$ : 65.2/30

All:  $-210.120 \pm 59.246$   $\chi^2/\text{NDF}$ : 97.6/61

- sign  $-42.893 \pm 82.769$   $\chi^2/\text{NDF}$ : 24.0/30

# asym\_sam7\_correction\_rms vs Slug



Right In: 335.134 $\pm$ 0.099  $\chi^2$ /NDF: 1994045.2/16

Left Out: 339.864 $\pm$ 0.075  $\chi^2$ /NDF: 817032.0/13

Right Out: 298.253 $\pm$ 0.089  $\chi^2$ /NDF: 2776555.9/17

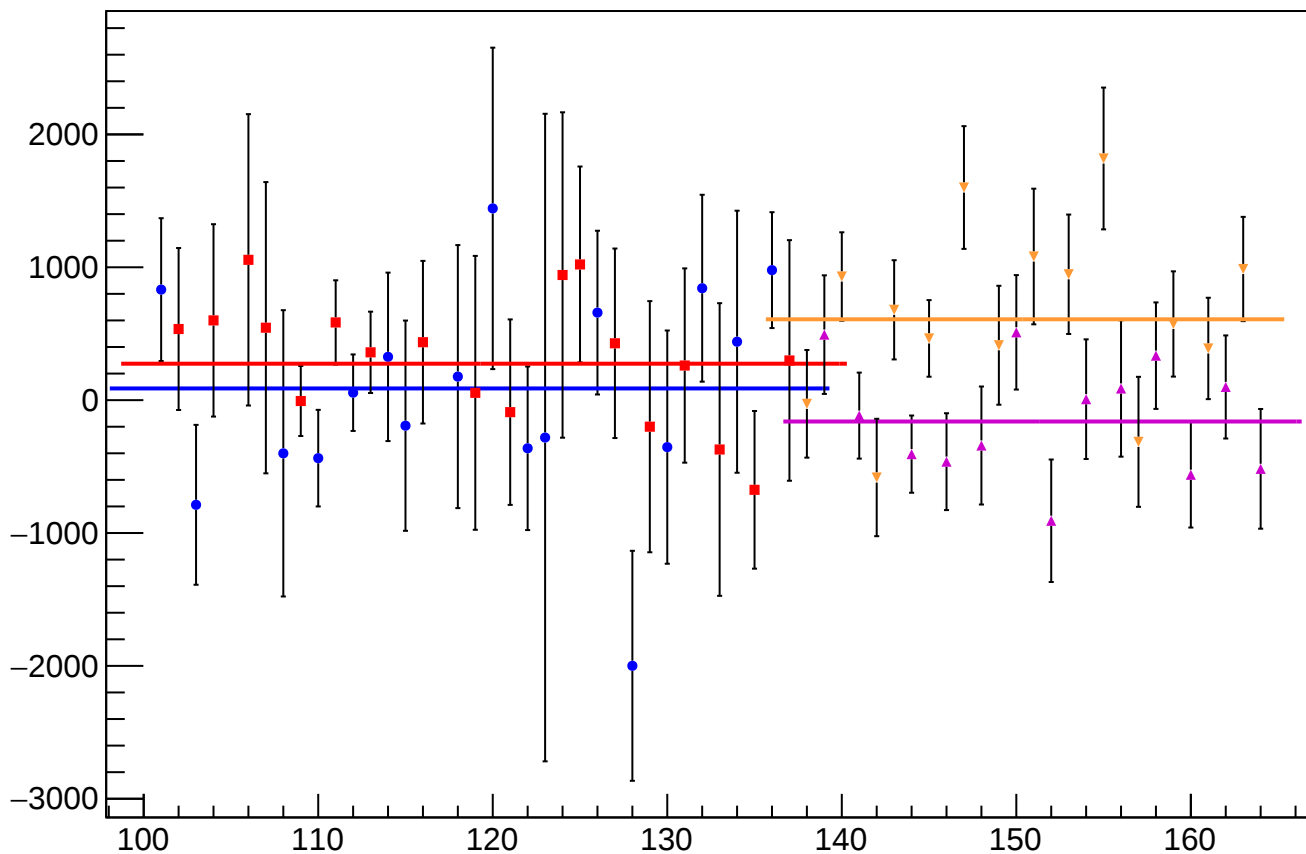
Left In: 348.215 $\pm$ 0.078  $\chi^2$ /NDF: 579018.9/12

+ sign 338.144 $\pm$ 0.060  $\chi^2$ /NDF: 2812515.2/30

All: 332.296 $\pm$ 0.042  $\chi^2$ /NDF: 6365244.3/61

- sign 326.731 $\pm$ 0.059  $\chi^2$ /NDF: 3534184.9/30

# asym\_sam7\_mean vs Slug



Right In: 88.115 $\pm$ 143.018  $\chi^2$ /NDF: 20.8/16

Left Out: 608.544 $\pm$ 108.242  $\chi^2$ /NDF:27.1/13

Right Out: 274.340 $\pm$ 129.866  $\chi^2$ /NDF: 8.0/17

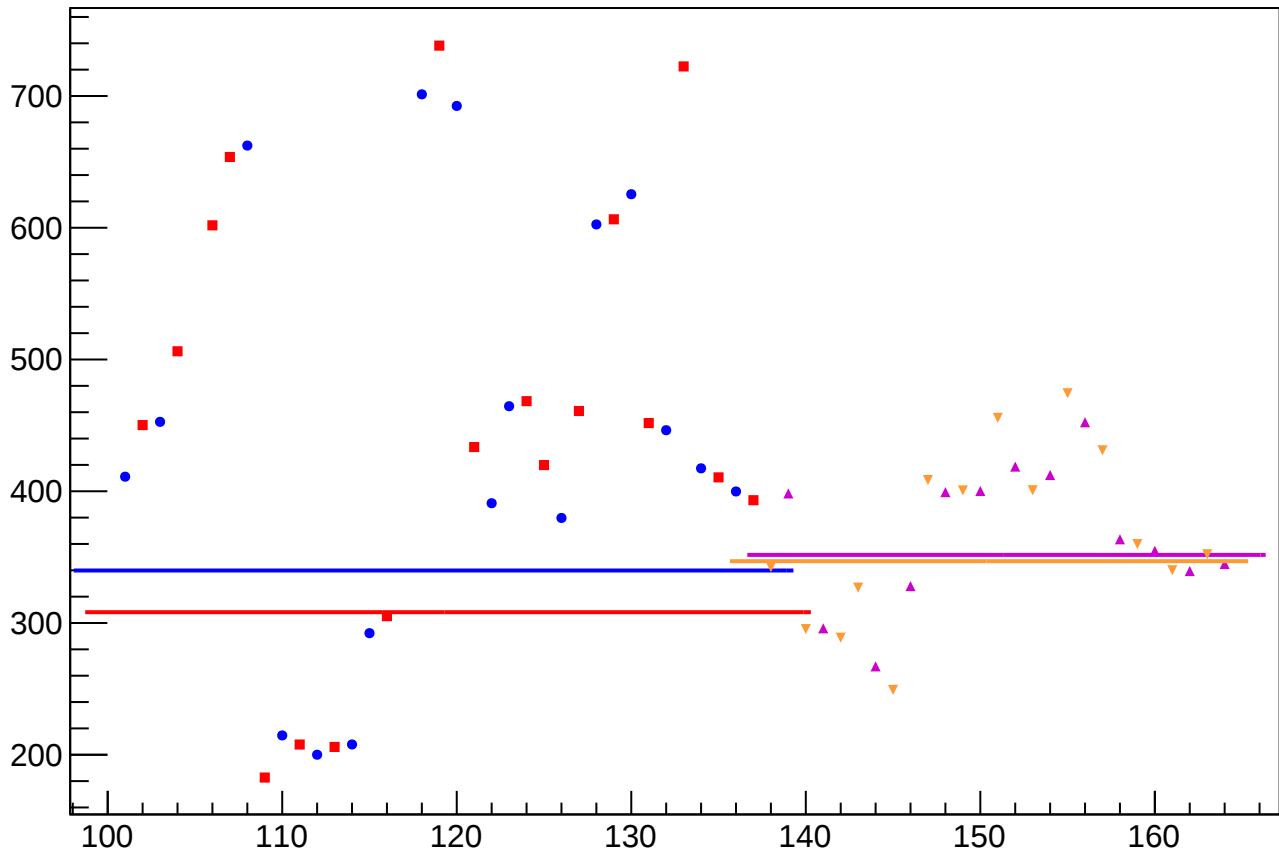
Left In: -160.761 $\pm$ 110.458  $\chi^2$ /NDF:12.8/12

+ sign 419.006 $\pm$ 86.309  $\chi^2$ /NDF: 56.4/30

All: 215.387 $\pm$ 60.248  $\chi^2$ /NDF: 94.6/61

- sign 21.878 $\pm$ 84.139  $\chi^2$ /NDF: 27.3/30

# asym\_sam7\_rms vs Slug



Right In: 339.850+/-0.101  $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out: 346.922+/-0.077  $\chi^2/\text{NDF}$ : 678483.5/13

Right Out: 308.199+/-0.092  $\chi^2/\text{NDF}$ : 2698828.8/17

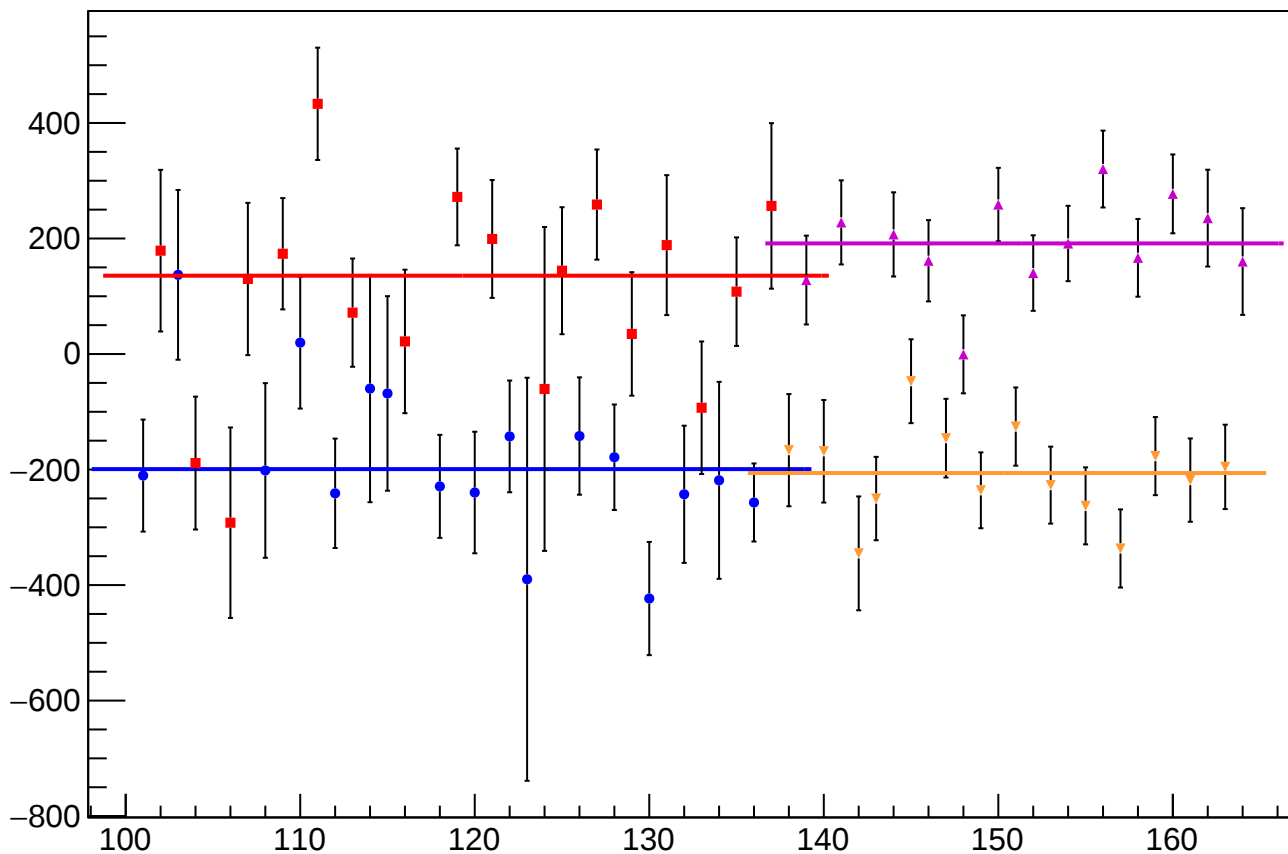
Left In: 351.694+/-0.078  $\chi^2/\text{NDF}$ : 467310.3/12

+ sign 344.346+/-0.061  $\chi^2/\text{NDF}$ : 2725115.4/30

All: 338.752+/-0.043  $\chi^2/\text{NDF}$ : 6037812.5/61

- sign 333.436+/-0.059  $\chi^2/\text{NDF}$ : 3296311.9/30

# dit\_asym\_sam8\_mean vs Slug



Right In: -199.252 $\pm$ 26.515  $\chi^2$ /NDF: 17.6/16

Left Out: -206.039 $\pm$ 19.423  $\chi^2$ /NDF:14.7/13

Right Out: 135.623 $\pm$ 26.252  $\chi^2$ /NDF: 36.7/17

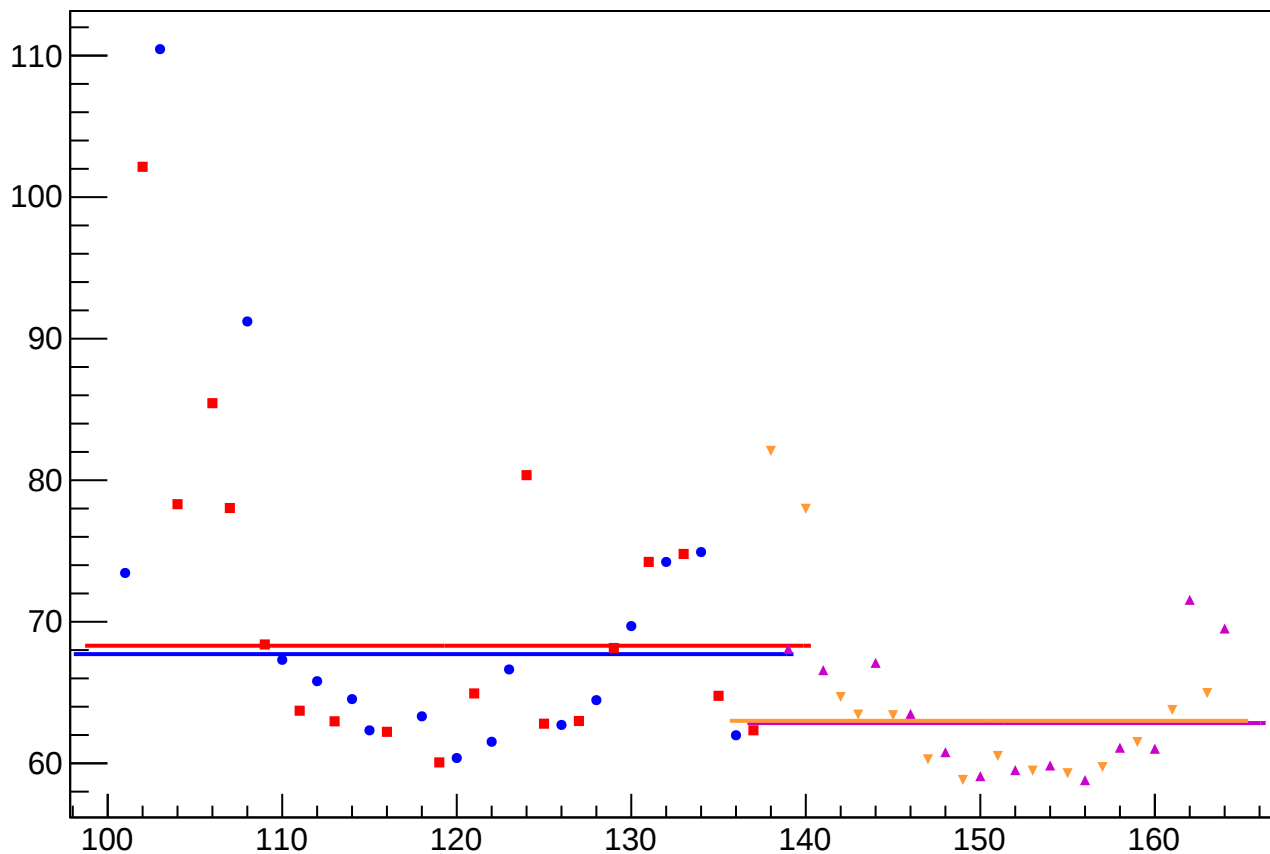
Left In: 191.502 $\pm$ 19.592  $\chi^2$ /NDF:16.8/12

+ sign -203.668 $\pm$ 15.669  $\chi^2$ /NDF: 32.4/30

All: -16.465 $\pm$ 11.091  $\chi^2$ /NDF: 374.8/61

- sign 171.513 $\pm$ 15.701  $\chi^2$ /NDF: 56.4/30

# dit\_asym\_sam8\_rms vs Slug



Right In:  $67.715 \pm 0.019$   $\chi^2/\text{NDF}$ : 282892.5/16

Left Out:  $63.004 \pm 0.014$   $\chi^2/\text{NDF}$ : 167786.4/13

Right Out:  $68.308 \pm 0.019$   $\chi^2/\text{NDF}$ : 234314.0/17

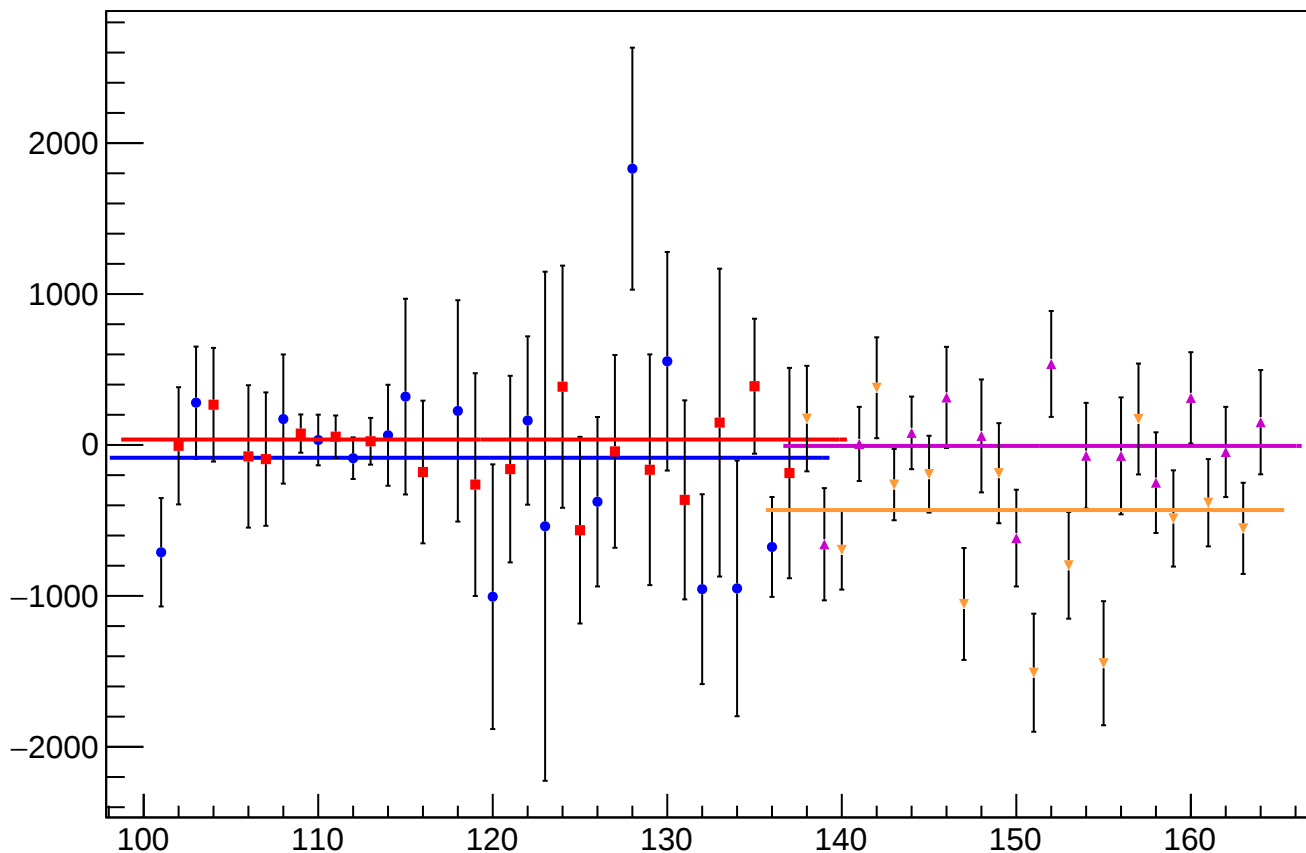
Left In:  $62.846 \pm 0.014$   $\chi^2/\text{NDF}$ : 81919.5/12

+ sign  $64.649 \pm 0.011$   $\chi^2/\text{NDF}$ : 491777.5/30

All:  $64.724 \pm 0.008$   $\chi^2/\text{NDF}$ : 863725.7/61

- sign  $64.800 \pm 0.011$   $\chi^2/\text{NDF}$ : 371855.9/30

# asym\_sam8\_correction\_mean vs Slug



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}$ : 19.9/16

Left Out:  $-431.233 \pm 83.951$   $\chi^2/\text{NDF}$ : 32.3/13

Right Out:  $36.132 \pm 69.750$   $\chi^2/\text{NDF}$ : 3.4/17

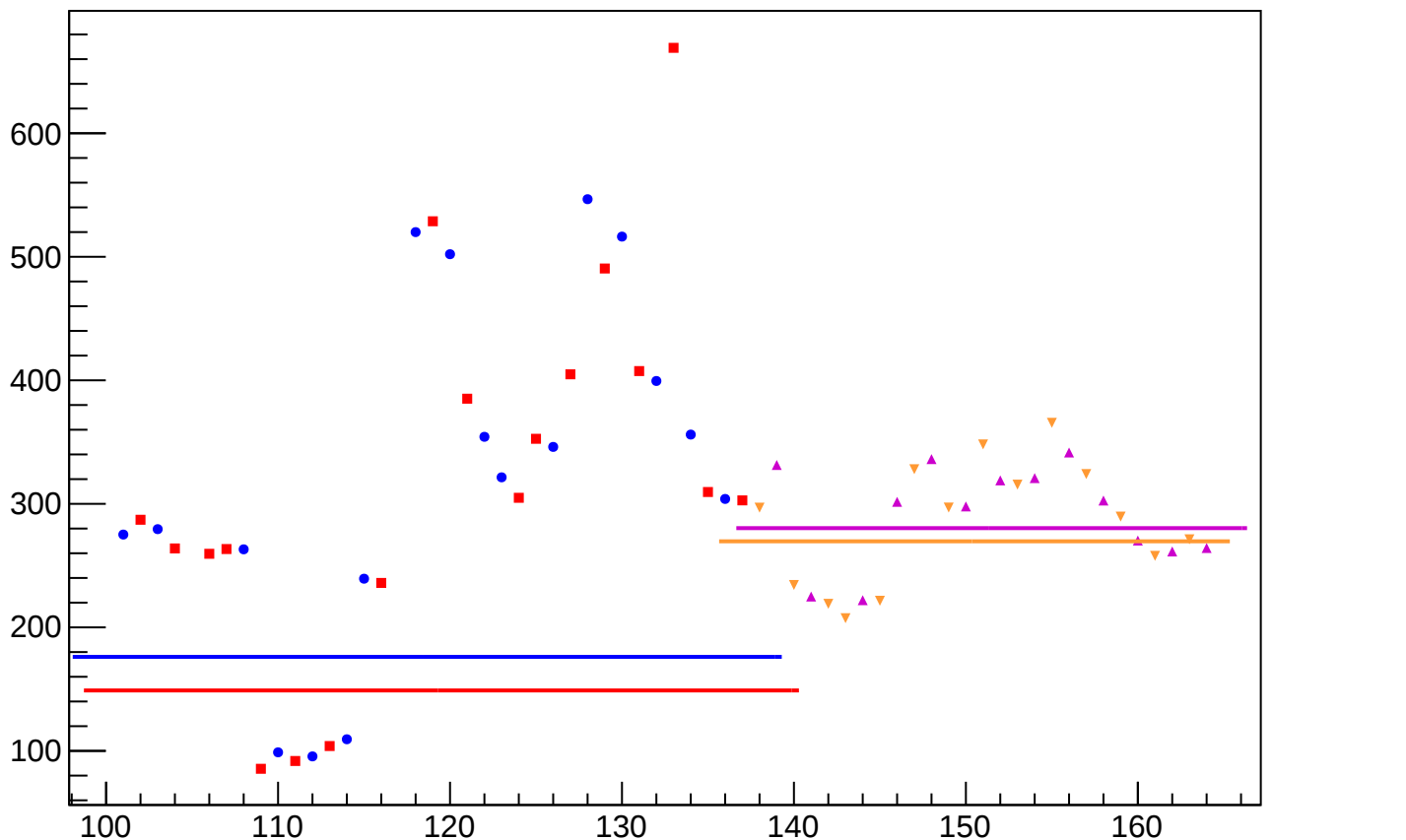
Left In:  $-6.330 \pm 87.930$   $\chi^2/\text{NDF}$ : 12.1/12

+ sign  $-255.326 \pm 58.903$   $\chi^2/\text{NDF}$ : 60.8/30

All:  $-107.496 \pm 40.061$   $\chi^2/\text{NDF}$ : 88.3/61

- sign  $19.733 \pm 54.645$   $\chi^2/\text{NDF}$ : 15.7/30

# asym\_sam8\_correction\_rms vs Slug



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 269.668+/-0.059  $\chi^2/\text{NDF}$ : 645729.7/13

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

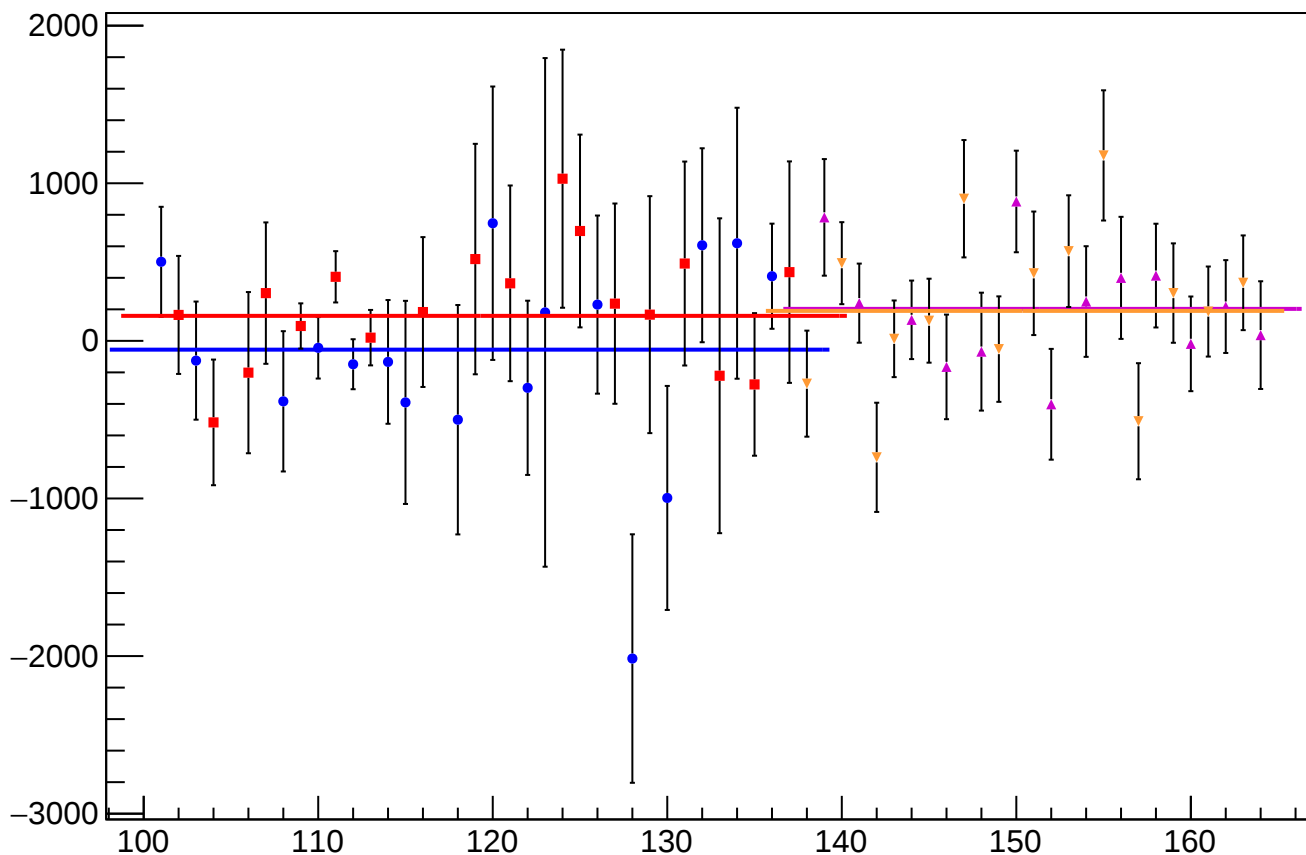
Left In: 280.333+/-0.062  $\chi^2/\text{NDF}$ : 440437.5/12

+ sign 222.161+/-0.042  $\chi^2/\text{NDF}$ : 6130853.6/30

All: 210.079+/-0.028  $\chi^2/\text{NDF}$ : 14240141.1/63

- sign 199.681+/-0.039  $\chi^2/\text{NDF}$ : 7952721.0/30

# asym\_sam8\_mean vs Slug



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $190.201 \pm 84.463$   $\chi^2/\text{NDF}$ : 26.5/13

Right Out:  $158.676 \pm 77.072$   $\chi^2/\text{NDF}$ : 10.4/17

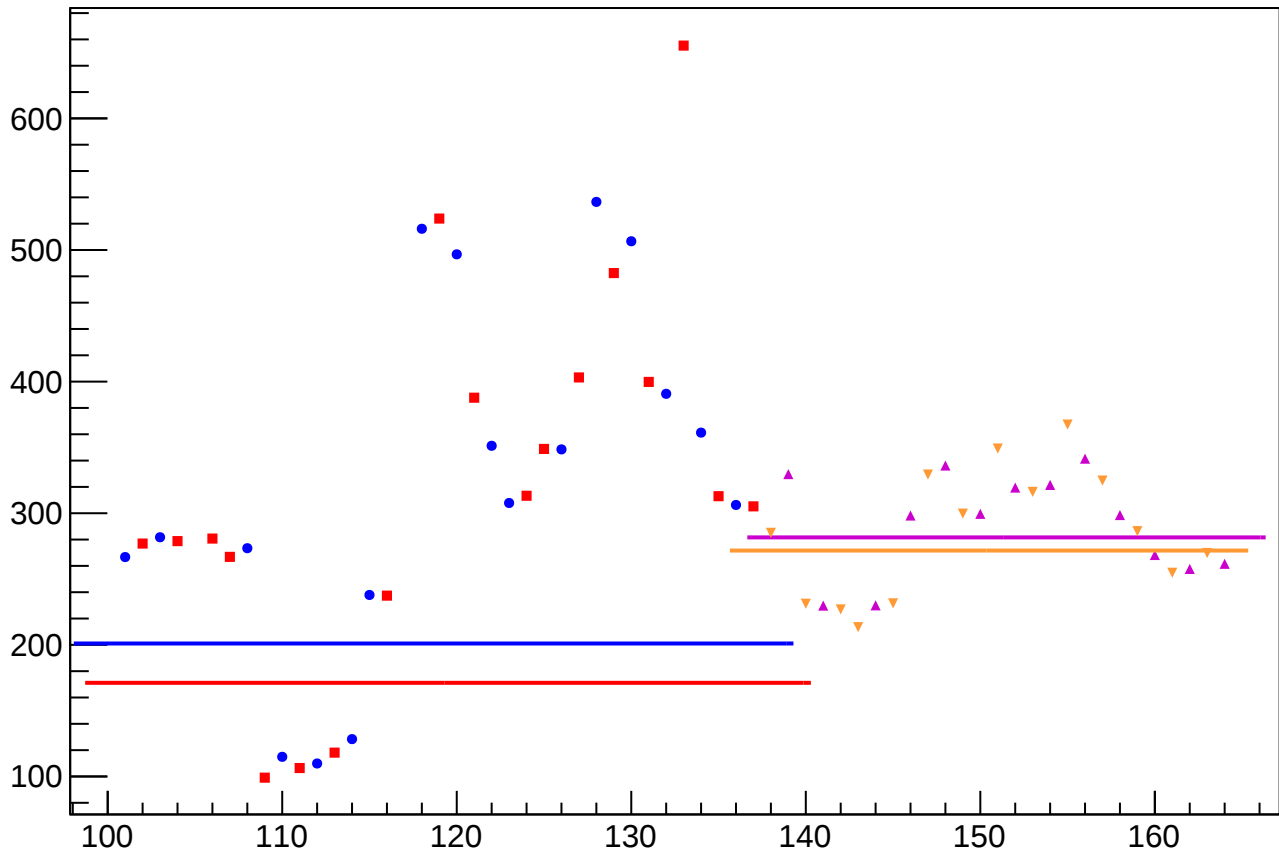
Left In:  $202.998 \pm 88.236$   $\chi^2/\text{NDF}$ : 13.2/12

+ sign  $75.812 \pm 61.771$   $\chi^2/\text{NDF}$ : 47.6/30

All:  $130.004 \pm 42.301$   $\chi^2/\text{NDF}$ : 72.8/61

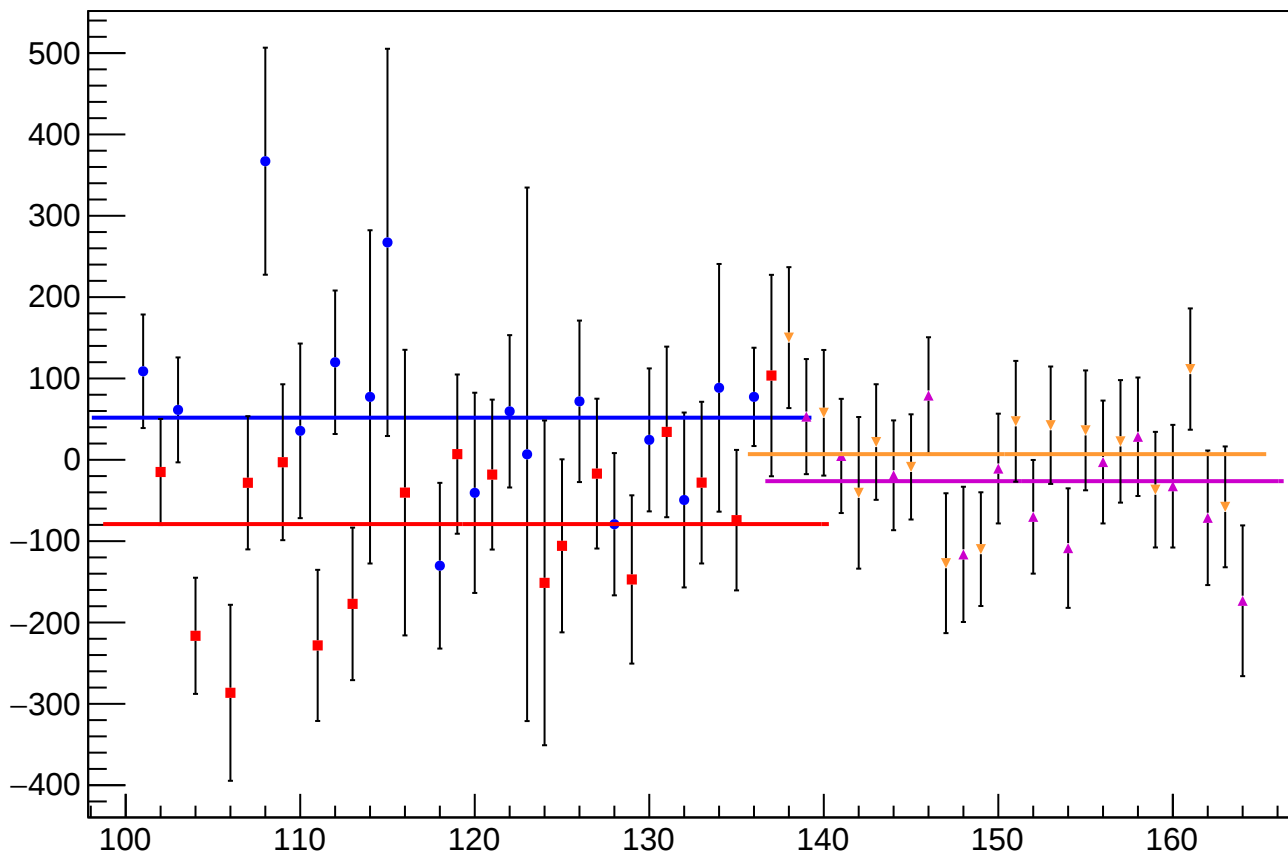
- sign  $177.857 \pm 58.046$   $\chi^2/\text{NDF}$ : 23.7/30

# asym\_sam8\_rms vs Slug



Right In: 201.036+/-0.064     $\chi^2/\text{NDF}$ : 3433026.4/16    + sign 238.807+/-0.044     $\chi^2/\text{NDF}$ : 4660606.5/30  
 Left Out: 271.654+/-0.060     $\chi^2/\text{NDF}$ : 577296.0/13    All: 228.274+/-0.030     $\chi^2/\text{NDF}$ : 10999290.5/63  
 Right Out: 171.159+/-0.054     $\chi^2/\text{NDF}$ : 4065598.7/17    - sign 218.974+/-0.041     $\chi^2/\text{NDF}$ : 6229191.3/30  
 Left In: 281.643+/-0.062     $\chi^2/\text{NDF}$ : 384929.8/12

# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 51.799 $\pm$ 23.538  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: 6.973 $\pm$ 20.056  $\chi^2/\text{NDF}$ : 12.6/13

Right Out: -79.008 $\pm$ 22.499  $\chi^2/\text{NDF}$ : 19.0/17

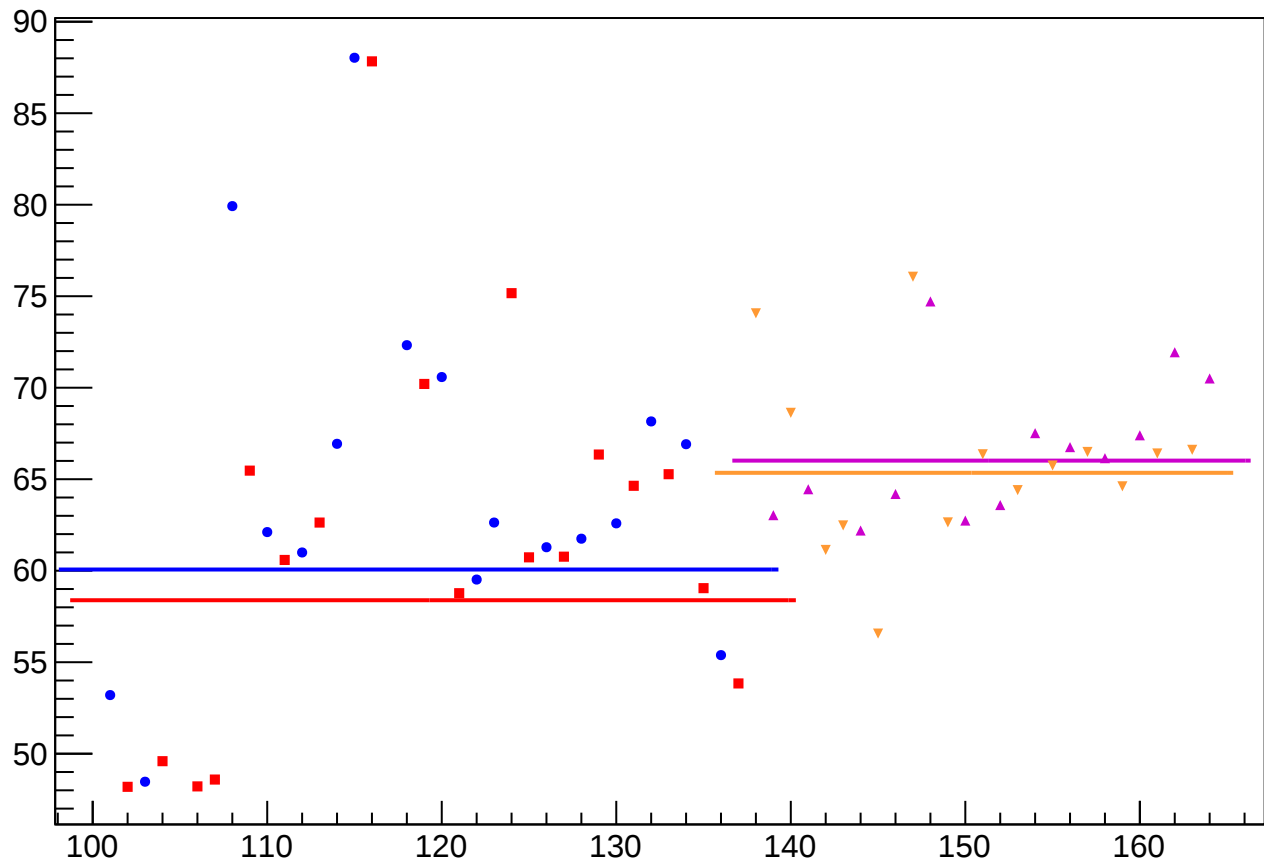
Left In: -26.238 $\pm$ 20.525  $\chi^2/\text{NDF}$ : 10.0/12

+ sign 25.828 $\pm$ 15.266  $\chi^2/\text{NDF}$ : 29.2/30

All: -12.445 $\pm$ 10.758  $\chi^2/\text{NDF}$ : 73.7/61

- sign -50.207 $\pm$ 15.163  $\chi^2/\text{NDF}$ : 32.0/30

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 60.065 $\pm$ 0.017  $\chi^2$ /NDF: 229098.7/16

Left Out: 65.350 $\pm$ 0.014  $\chi^2$ /NDF: 104620.8/13

Right Out: 58.387 $\pm$ 0.016  $\chi^2$ /NDF: 275017.2/17

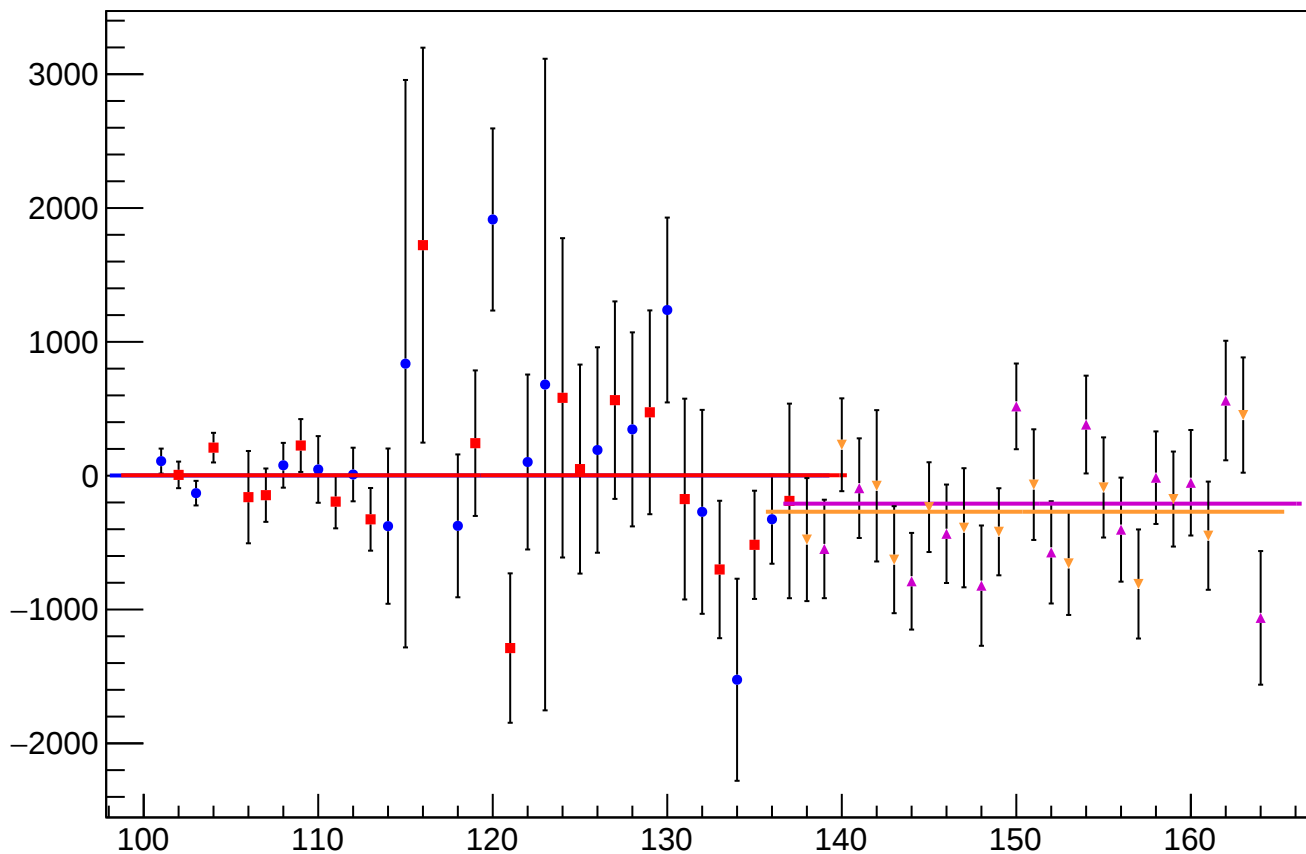
Left In: 66.016 $\pm$ 0.015  $\chi^2$ /NDF: 57925.7/12

+ sign 63.127 $\pm$ 0.011  $\chi^2$ /NDF: 392127.0/30

All: 62.837 $\pm$ 0.008  $\chi^2$ /NDF: 852022.6/61

- sign 62.551 $\pm$ 0.011  $\chi^2$ /NDF: 458462.1/30

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In:  $1.581 \pm 54.284$   $\chi^2/\text{NDF}$ : 21.4/16

Left Out:  $-269.287 \pm 104.818$   $\chi^2/\text{NDF}$ : 9.8/13

Right Out:  $3.242 \pm 56.611$   $\chi^2/\text{NDF}$ : 20.2/17

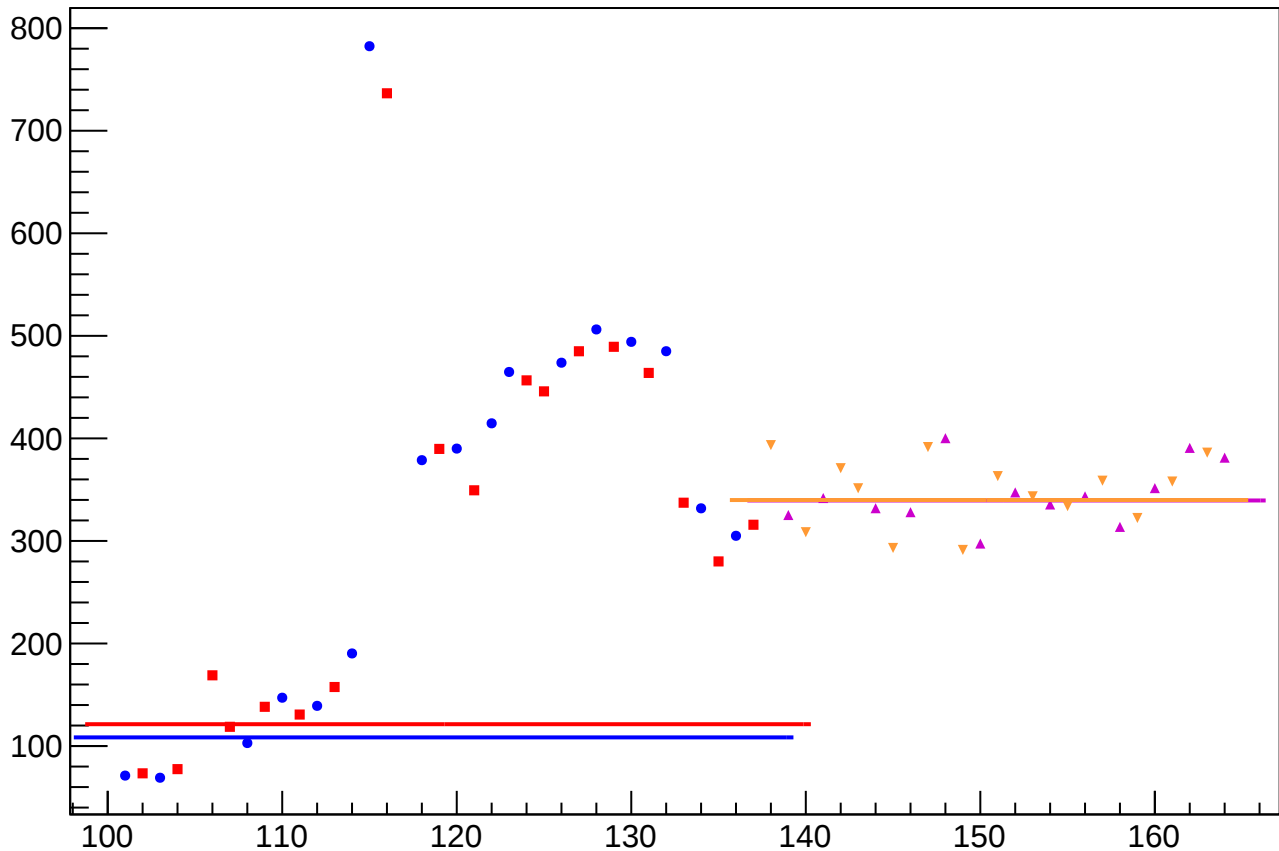
Left In:  $-208.918 \pm 105.916$   $\chi^2/\text{NDF}$ : 21.0/12

+ sign  $-55.704 \pm 48.203$   $\chi^2/\text{NDF}$ : 36.5/30

All:  $-50.010 \pm 34.678$   $\chi^2/\text{NDF}$ : 80.9/61

- sign  $-43.900 \pm 49.927$   $\chi^2/\text{NDF}$ : 44.4/30

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 108.445 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 5404107.9/16

Left Out: 339.886 $\pm$ 0.074  $\chi^2/\text{NDF}$ : 204897.7/13

Right Out: 121.303 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 4731568.2/17

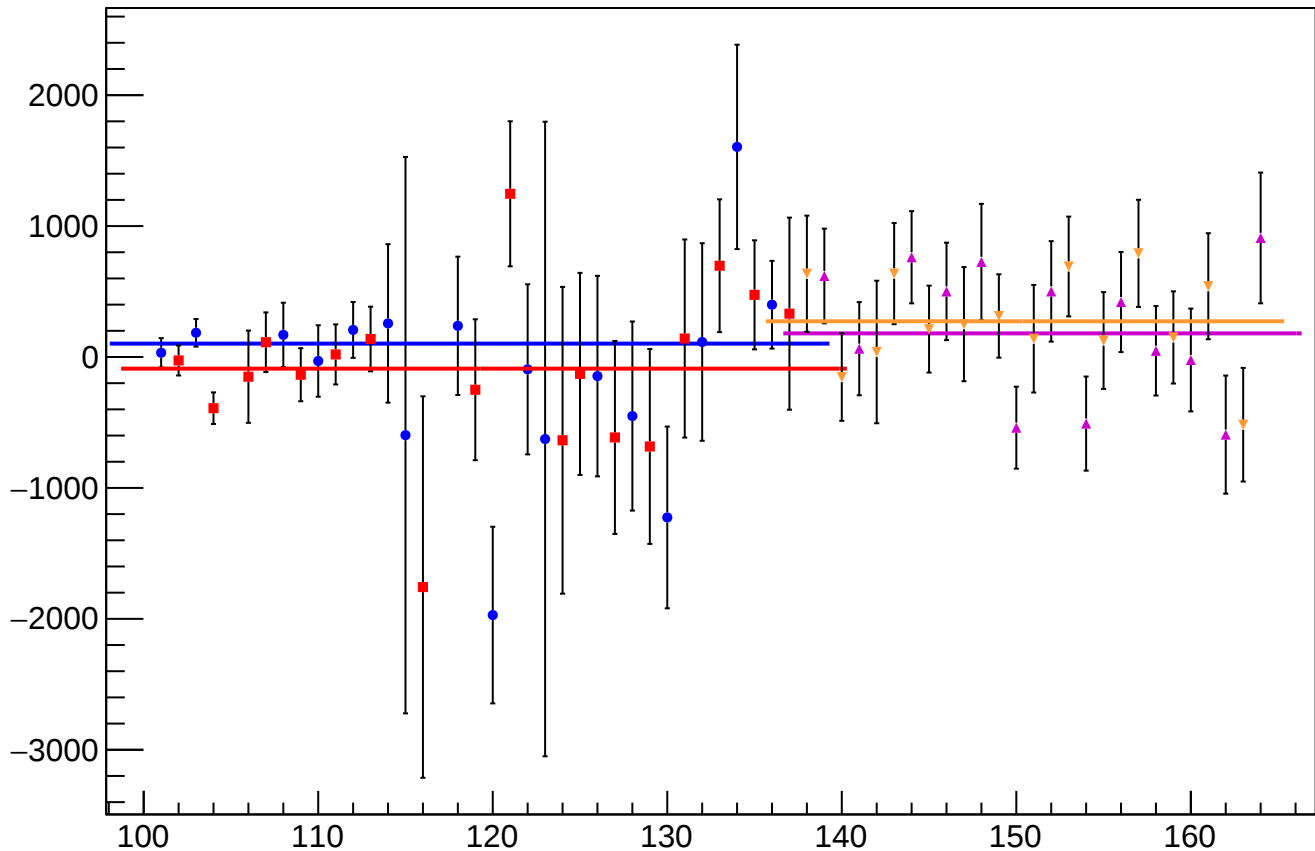
Left In: 339.466 $\pm$ 0.075  $\chi^2/\text{NDF}$ : 131402.4/12

+ sign 157.392 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 13297632.4/30

All: 163.368 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 24824132.5/63

- sign 169.779 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 11462774.7/30

# asym\_sam\_15\_avg\_mean vs Slug



Right In:  $102.221 \pm 63.127$   $\chi^2/\text{NDF}$ : 20.3/16

Left Out:  $272.645 \pm 103.200$   $\chi^2/\text{NDF}$ : 10.4/13

Right Out:  $-88.841 \pm 62.230$   $\chi^2/\text{NDF}$ : 21.7/17

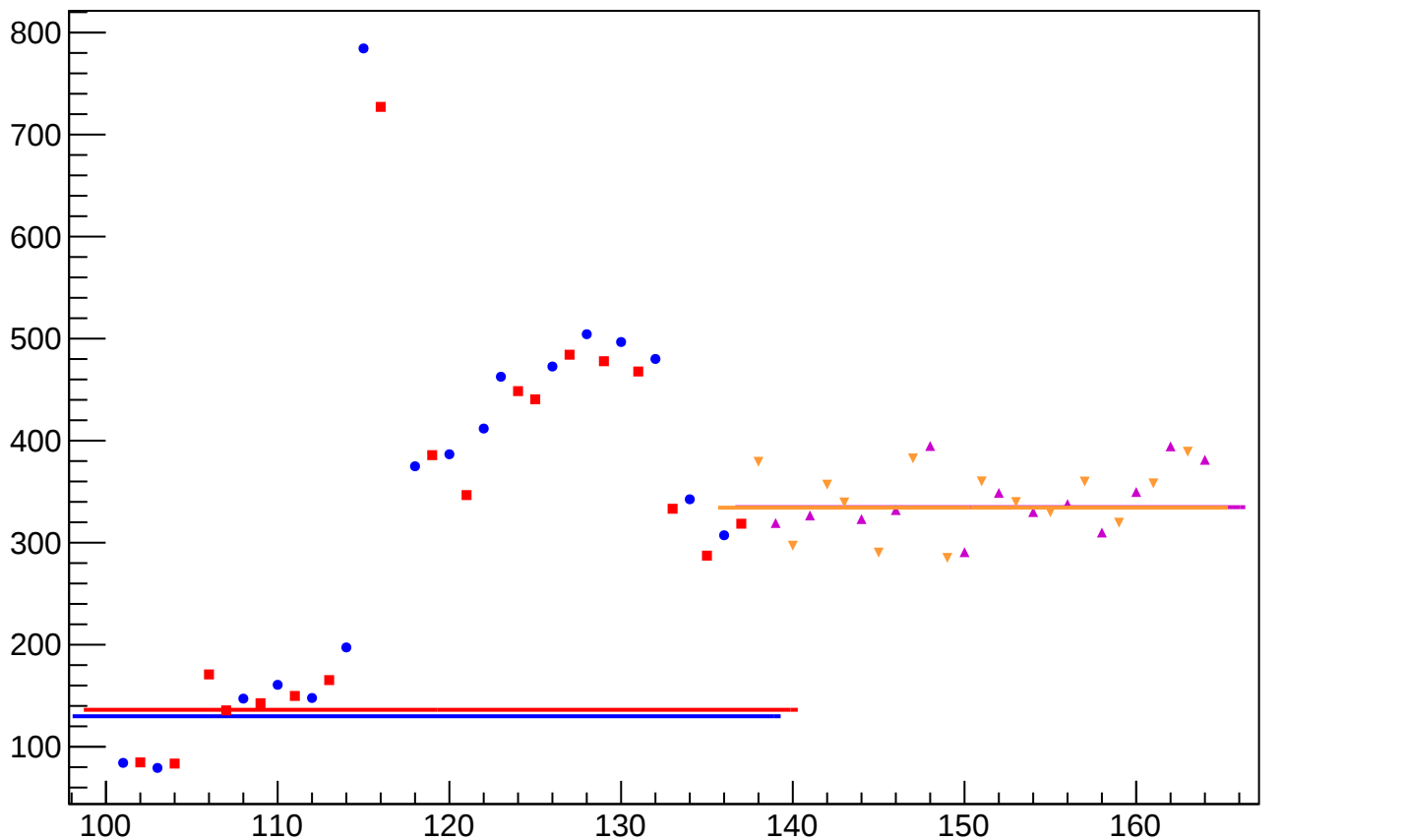
Left In:  $180.404 \pm 104.559$   $\chi^2/\text{NDF}$ : 22.1/12

+ sign  $148.626 \pm 53.851$   $\chi^2/\text{NDF}$ : 32.6/30

All:  $64.522 \pm 37.945$   $\chi^2/\text{NDF}$ : 86.2/61

- sign  $-18.414 \pm 53.476$   $\chi^2/\text{NDF}$ : 48.7/30

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 334.332+/-0.073  $\chi^2/\text{NDF}$ : 215637.7/13

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

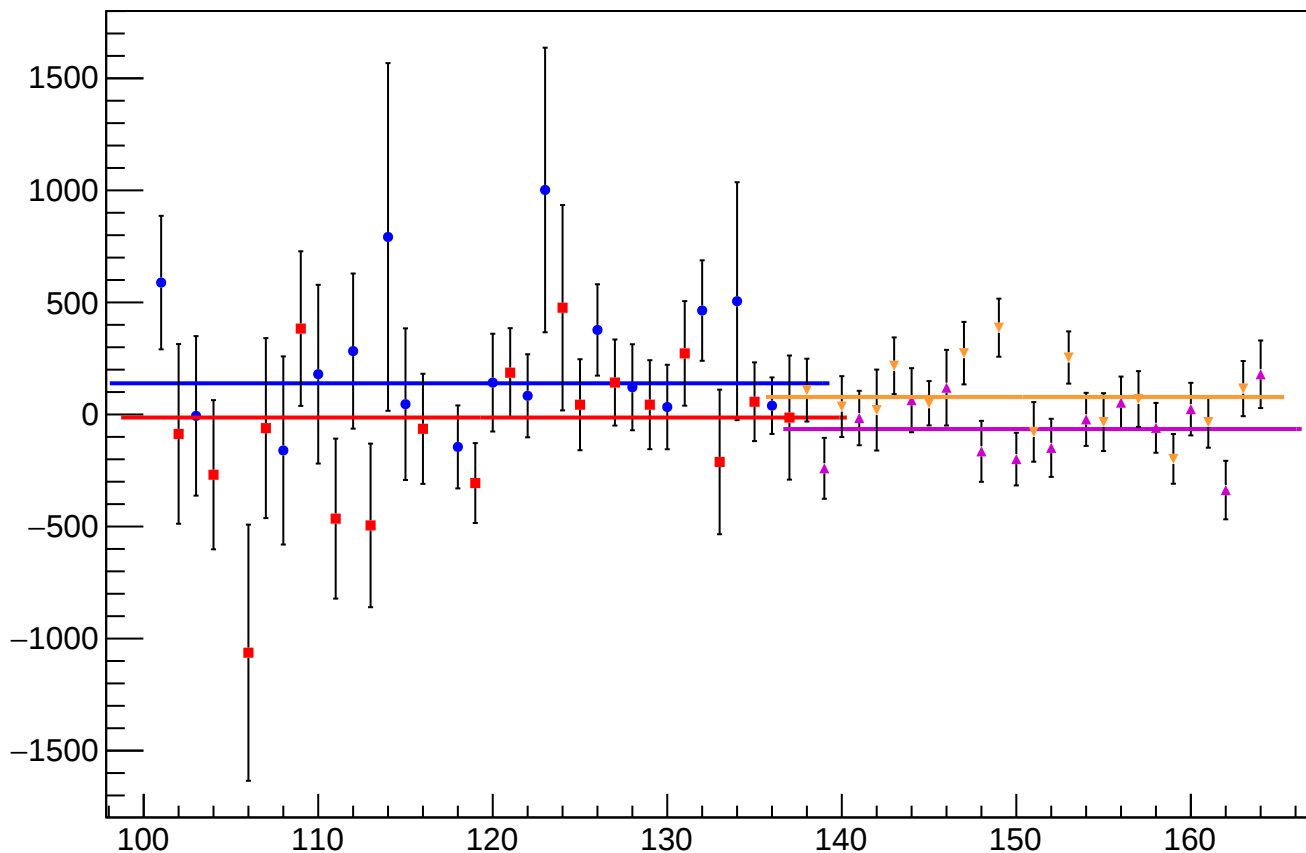
Left In: 334.816+/-0.074  $\chi^2/\text{NDF}$ : 152143.1/12

+ sign 185.554+/-0.038  $\chi^2/\text{NDF}$ : 10757264.4/30

All: 186.872+/-0.027  $\chi^2/\text{NDF}$ : 20522285.3/63

- sign 188.171+/-0.038  $\chi^2/\text{NDF}$ : 9762641.7/30

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In:  $139.093 \pm 57.982$   $\chi^2/\text{NDF}$ : 13.1/16

Left Out:  $78.220 \pm 33.532$   $\chi^2/\text{NDF}$ : 20.9/13

Right Out:  $-13.637 \pm 60.127$   $\chi^2/\text{NDF}$ : 16.4/17

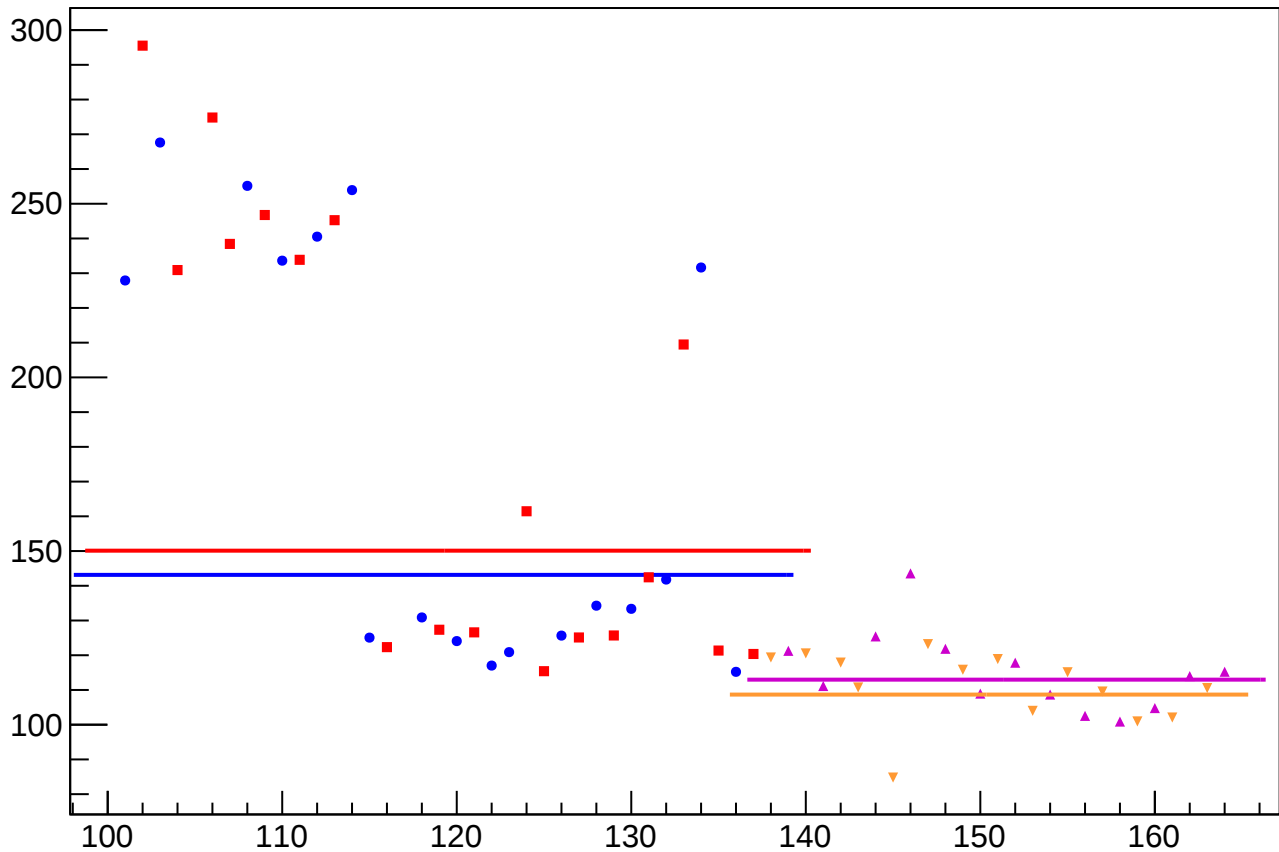
Left In:  $-64.948 \pm 35.496$   $\chi^2/\text{NDF}$ : 14.8/12

+ sign  $93.477 \pm 29.028$   $\chi^2/\text{NDF}$ : 34.8/30

All:  $24.641 \pm 21.049$   $\chi^2/\text{NDF}$ : 78.4/61

- sign  $-51.688 \pm 30.567$   $\chi^2/\text{NDF}$ : 31.8/30

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 108.672 $\pm$ 0.024  $\chi^2$ /NDF:213860.8/13

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

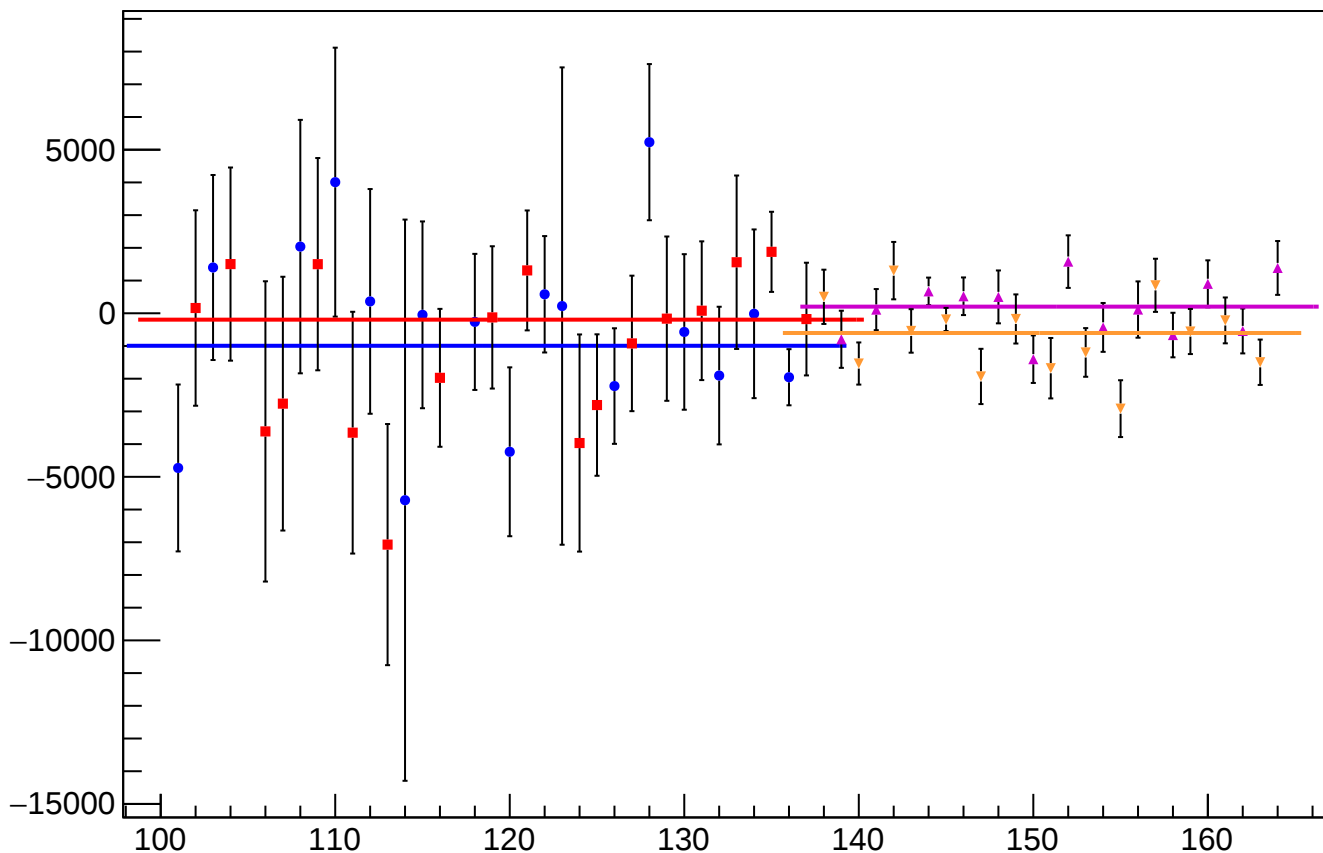
Left In: 112.972 $\pm$ 0.025  $\chi^2$ /NDF:155126.8/12

+ sign 117.311 $\pm$ 0.021  $\chi^2$ /NDF: 1844745.5/30

All: 119.804 $\pm$ 0.015  $\chi^2$ /NDF: 3929566.7/61

- sign 122.569 $\pm$ 0.022  $\chi^2$ /NDF: 2053696.4/30

# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In: -993.785+/-516.463  $\chi^2$ /NDF: 16.9/16

Left Out: -602.565+/-180.656  $\chi^2$ /NDF: 27.1/13

Right Out: -195.049+/-543.821  $\chi^2$ /NDF: 13.5/17

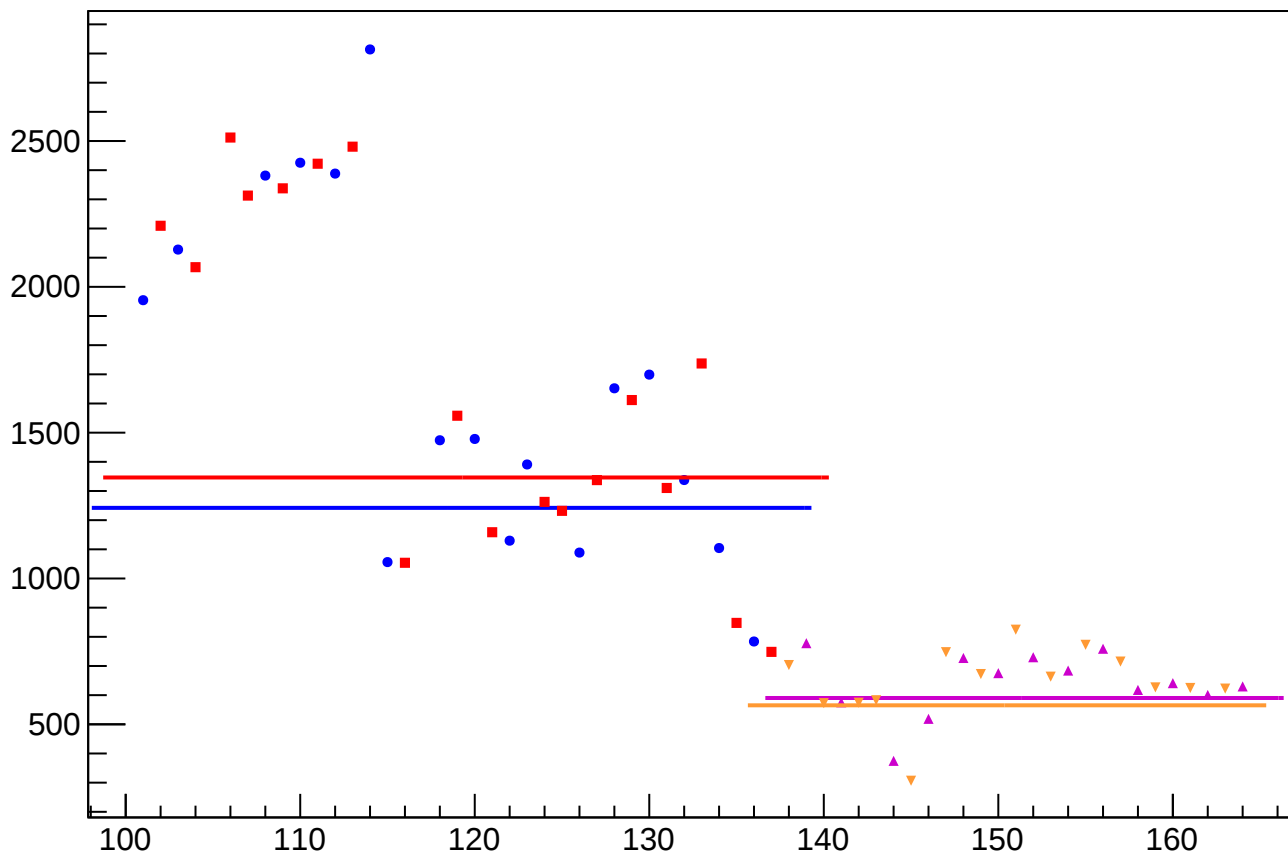
Left In: 202.742+/-187.898  $\chi^2$ /NDF: 17.4/12

+ sign -645.214+/-170.524  $\chi^2$ /NDF: 44.5/30

All: -258.805+/-123.003  $\chi^2$ /NDF: 86.6/61

- sign 160.318+/-177.596  $\chi^2$ /NDF: 31.4/30

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 565.154 $\pm$ 0.128  $\chi^2$ /NDF:1679681.2/13

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

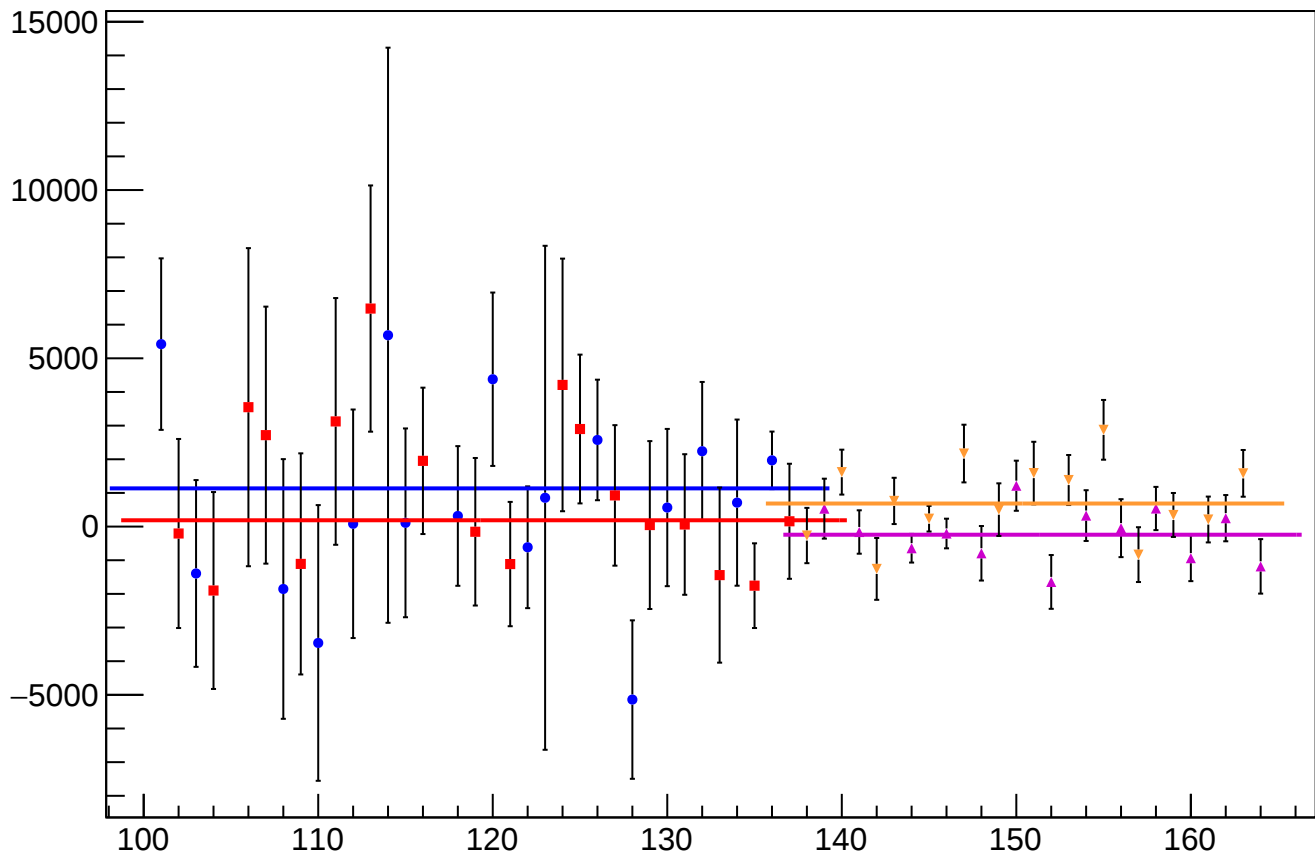
Left In: 590.260 $\pm$ 0.133  $\chi^2$ /NDF:922122.9/12

+ sign 638.960 $\pm$ 0.121  $\chi^2$ /NDF: 6509219.0/30

All: 654.279 $\pm$ 0.087  $\chi^2$ /NDF: 12727771.5/63

- sign 670.895 $\pm$ 0.126  $\chi^2$ /NDF: 6184905.9/30

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 685.128 $\pm$ 184.940  $\chi^2$ /NDF: 26.1/13

Right Out: 187.508 $\pm$ 548.191  $\chi^2$ /NDF: 12.0/17

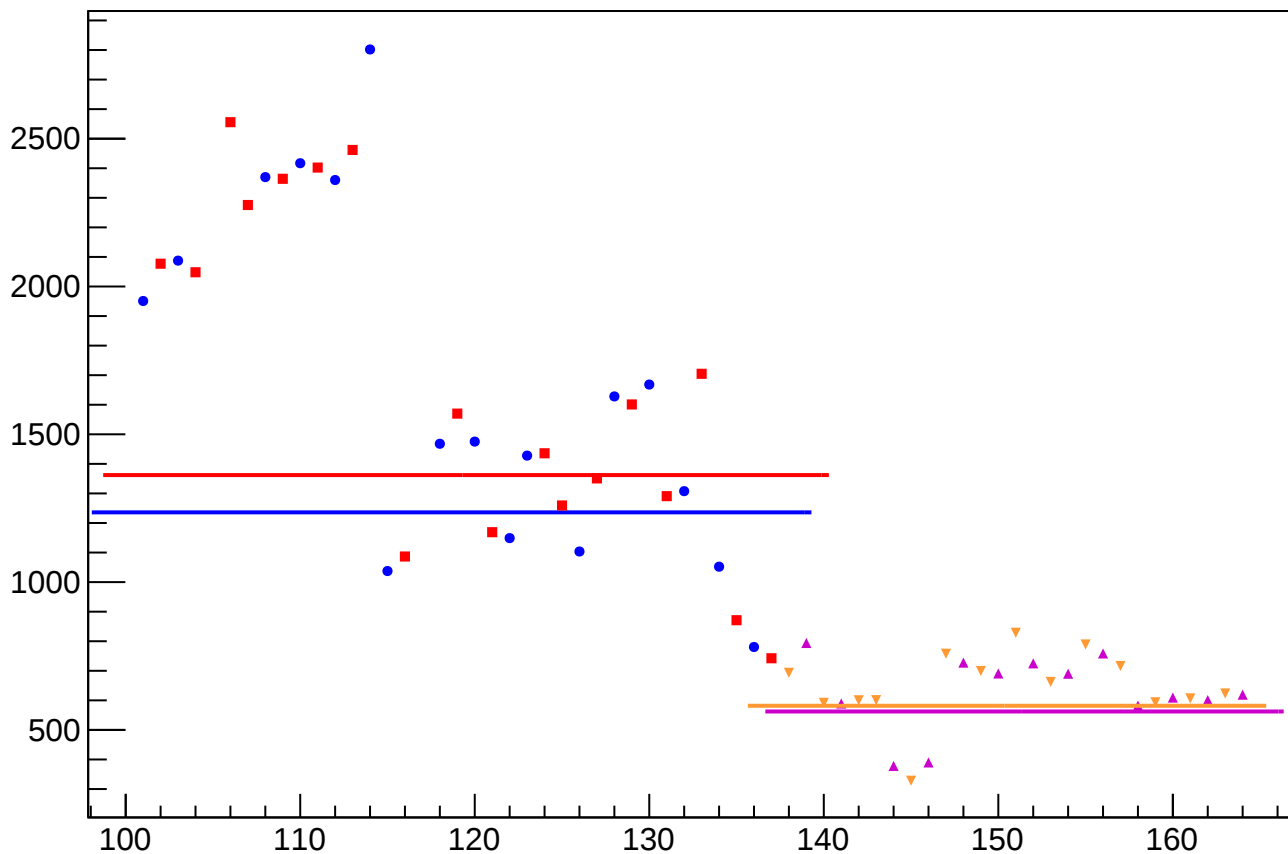
Left In: -241.946 $\pm$ 180.946  $\chi^2$ /NDF: 14.0/12

+ sign 736.759 $\pm$ 174.010  $\chi^2$ /NDF: 44.5/30

All: 262.592 $\pm$ 122.265  $\chi^2$ /NDF: 85.7/61

- sign -199.754 $\pm$ 171.827  $\chi^2$ /NDF: 26.6/30

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 581.682+/-0.131  $\chi^2/\text{NDF}$ :1395113.0/13

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

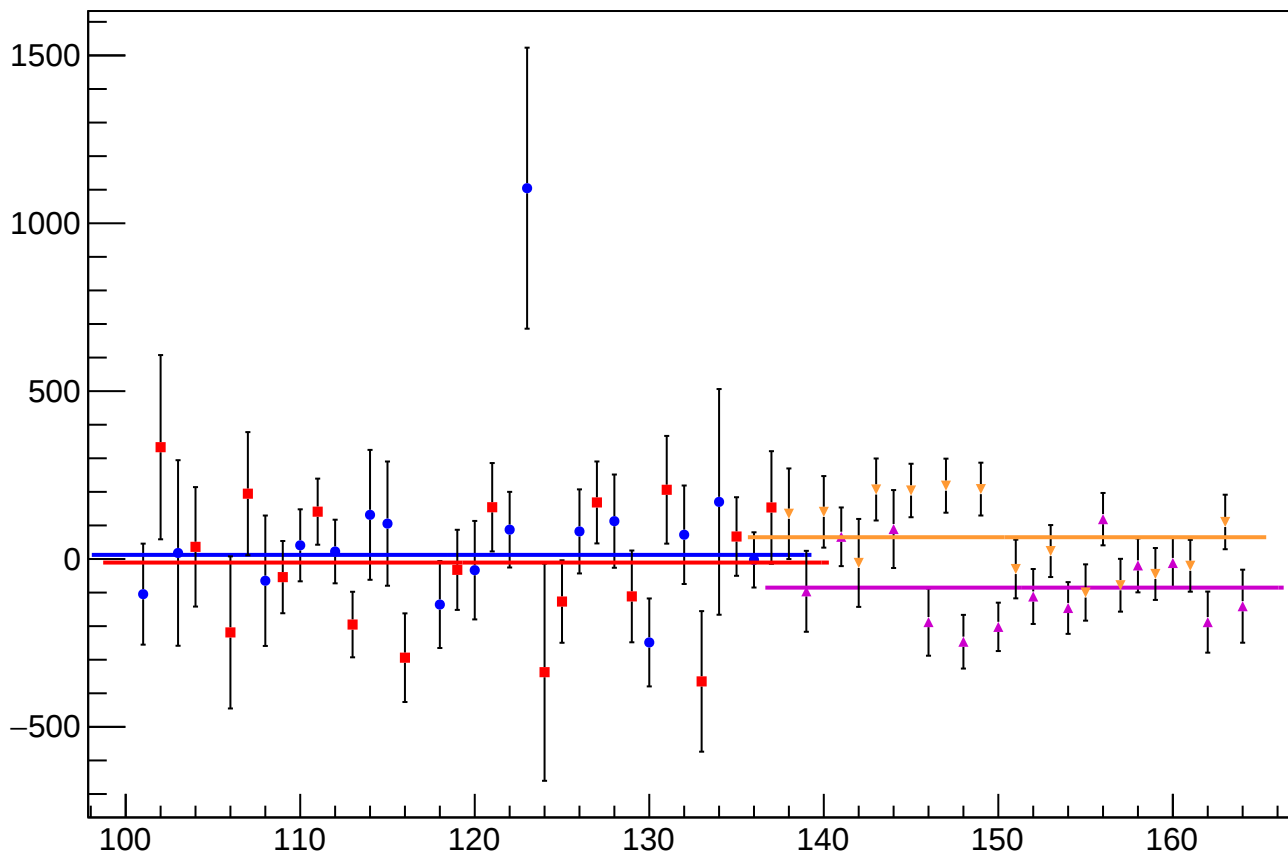
Left In: 562.329+/-0.128  $\chi^2/\text{NDF}$ :1233869.8/12

+ sign 656.733+/-0.123  $\chi^2/\text{NDF}$ : 6012094.2/30

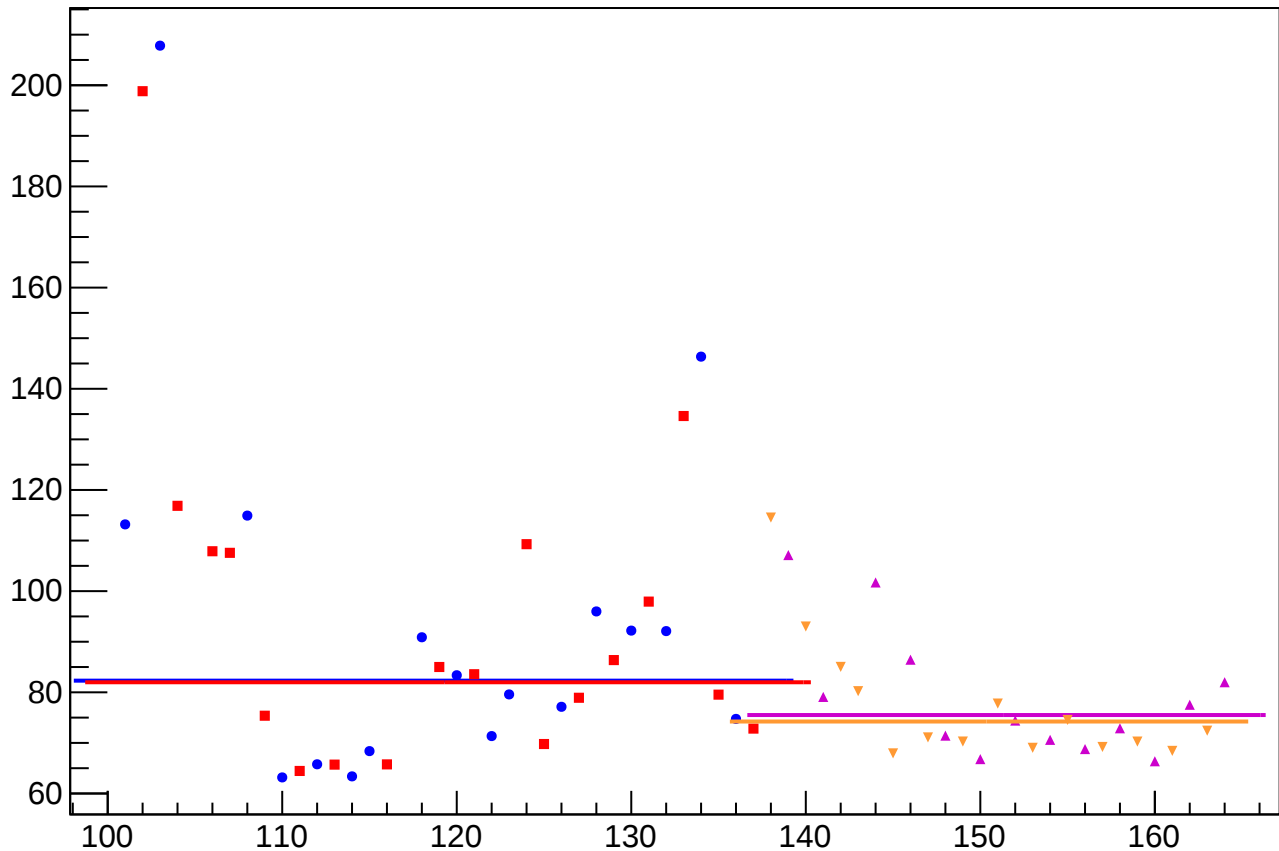
All: 648.718+/-0.086  $\chi^2/\text{NDF}$ : 12802230.4/63

- sign 640.903+/-0.122  $\chi^2/\text{NDF}$ : 6781755.9/30

dit\_asym\_sam\_37\_avg\_mean vs Slug



# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 82.306+/-0.023  $\chi^2/\text{NDF}$ : 868742.4/16

Left Out: 74.229+/-0.016  $\chi^2/\text{NDF}$ : 321356.3/13

Right Out: 81.987+/-0.023  $\chi^2/\text{NDF}$ : 853217.2/17

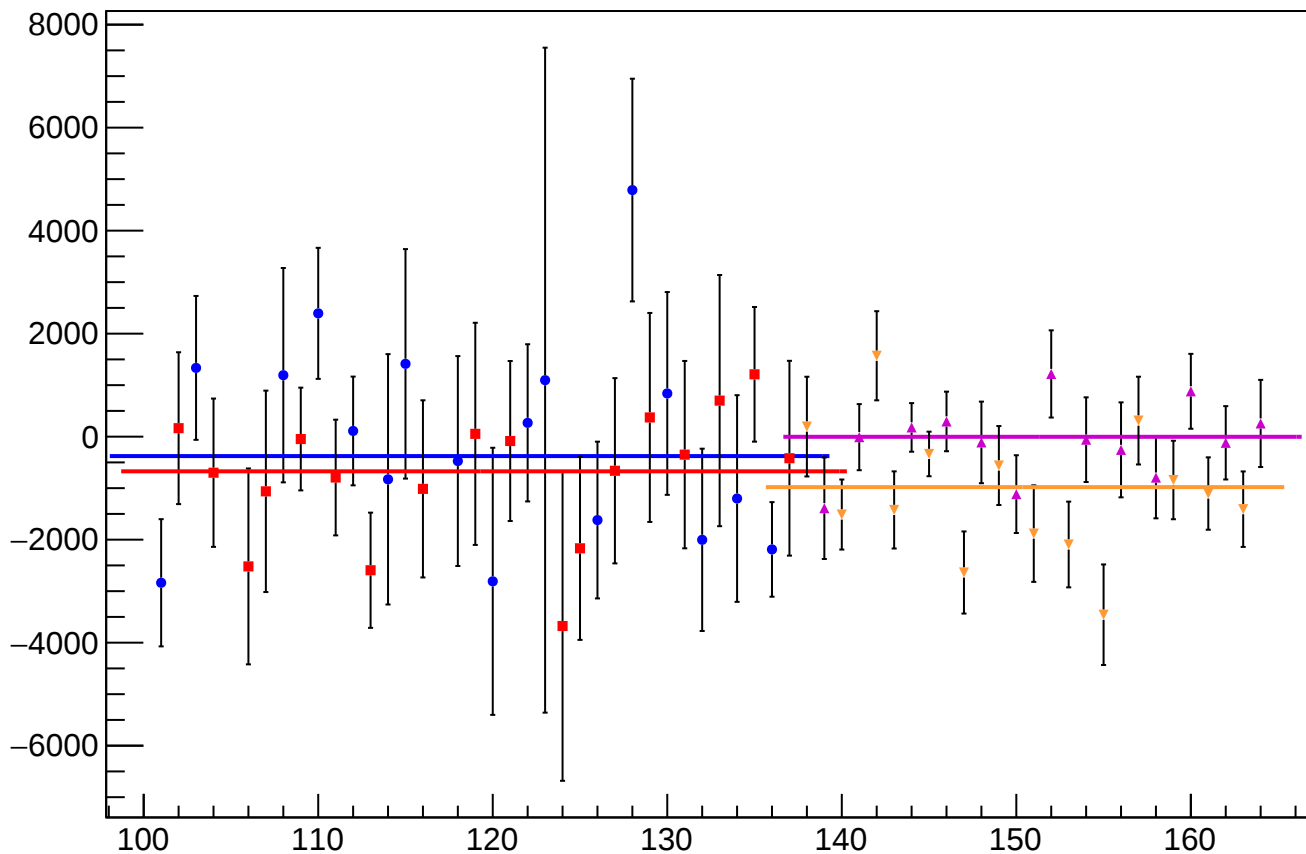
Left In: 75.510+/-0.017  $\chi^2/\text{NDF}$ : 365008.1/12

+ sign 76.855+/-0.013  $\chi^2/\text{NDF}$ : 1269857.2/30

All: 77.308+/-0.010  $\chi^2/\text{NDF}$ : 2541714.2/61

- sign 77.777+/-0.014  $\chi^2/\text{NDF}$ : 1269528.3/30

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In: -377.330 $\pm$ 383.897  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: -979.954 $\pm$ 197.704  $\chi^2/\text{NDF}$ : 29.8/13

Right Out: -673.192 $\pm$ 368.624  $\chi^2/\text{NDF}$ : 9.4/17

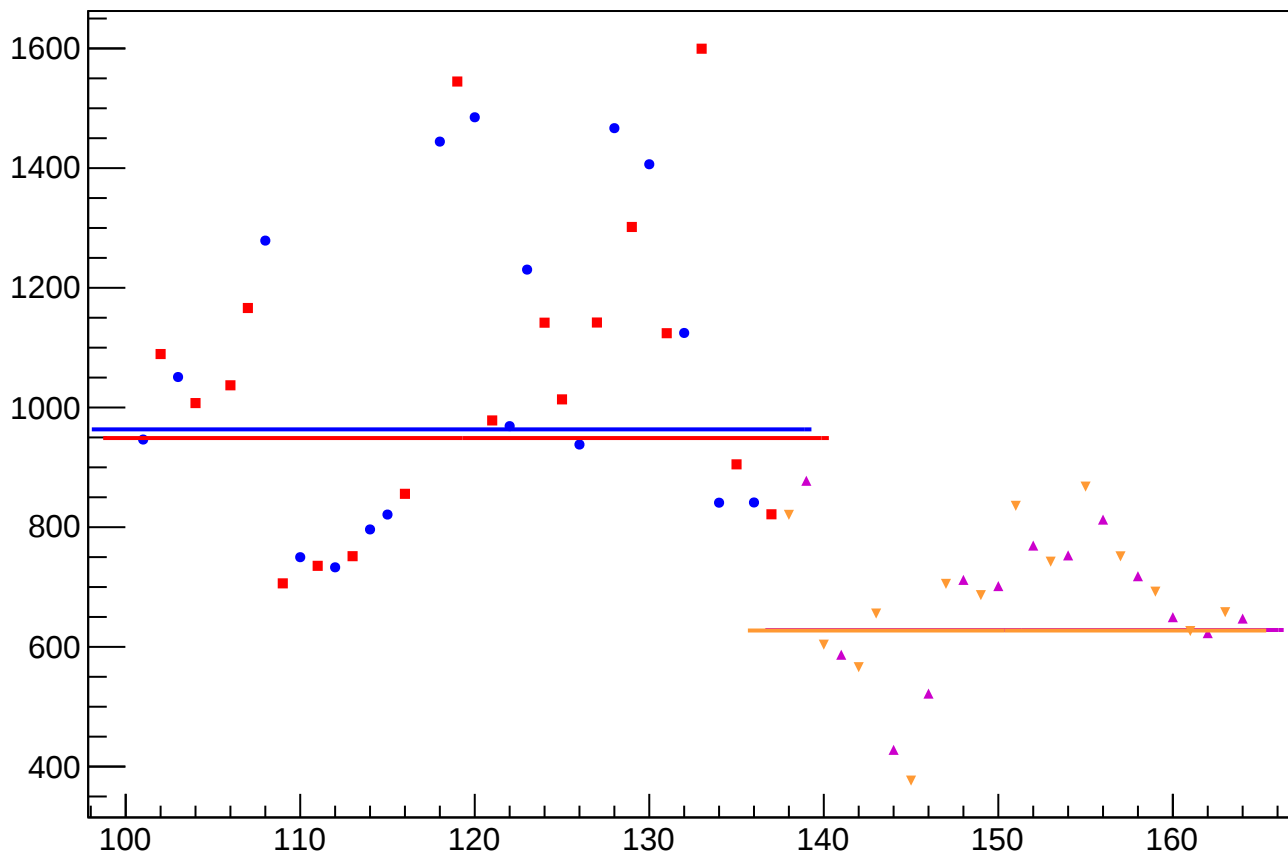
Left In: -2.827 $\pm$ 199.214  $\chi^2/\text{NDF}$ : 9.3/12

+ sign -853.631 $\pm$ 175.765  $\chi^2/\text{NDF}$ : 56.2/30

All: -502.985 $\pm$ 124.105  $\chi^2/\text{NDF}$ : 85.4/61

- sign -154.359 $\pm$ 175.258  $\chi^2/\text{NDF}$ : 21.3/30

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 963.469 $\pm$ 0.271  $\chi^2$ /NDF: 688873.3/16

Left Out: 627.361 $\pm$ 0.140  $\chi^2$ /NDF:1116776.3/13

Right Out: 948.947 $\pm$ 0.261  $\chi^2$ /NDF: 729378.3/17

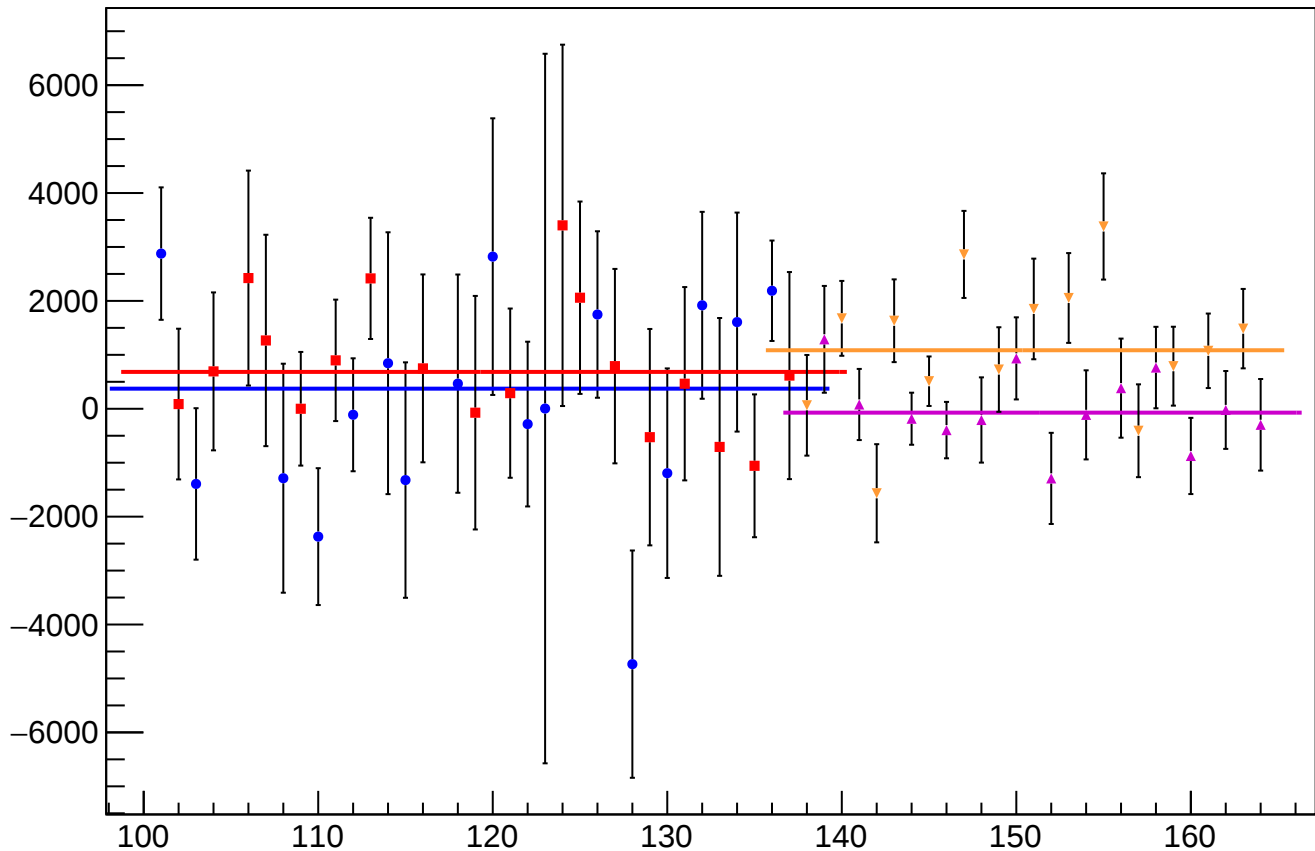
Left In: 628.219 $\pm$ 0.141  $\chi^2$ /NDF:815626.9/12

+ sign 697.816 $\pm$ 0.124  $\chi^2$ /NDF: 3017343.8/30

All: 699.271 $\pm$ 0.088  $\chi^2$ /NDF: 5734428.7/61

- sign 700.717 $\pm$ 0.124  $\chi^2$ /NDF: 2716811.8/30

# asym\_sam\_37\_avg\_mean vs Slug



Right In: 372.896 $\pm$ 383.661  $\chi^2$ /NDF: 25.3/16

Left Out: 1084.980 $\pm$ 200.693  $\chi^2$ /NDF:28.5/13

Right Out: 683.612 $\pm$ 372.418  $\chi^2$ /NDF: 7.8/17

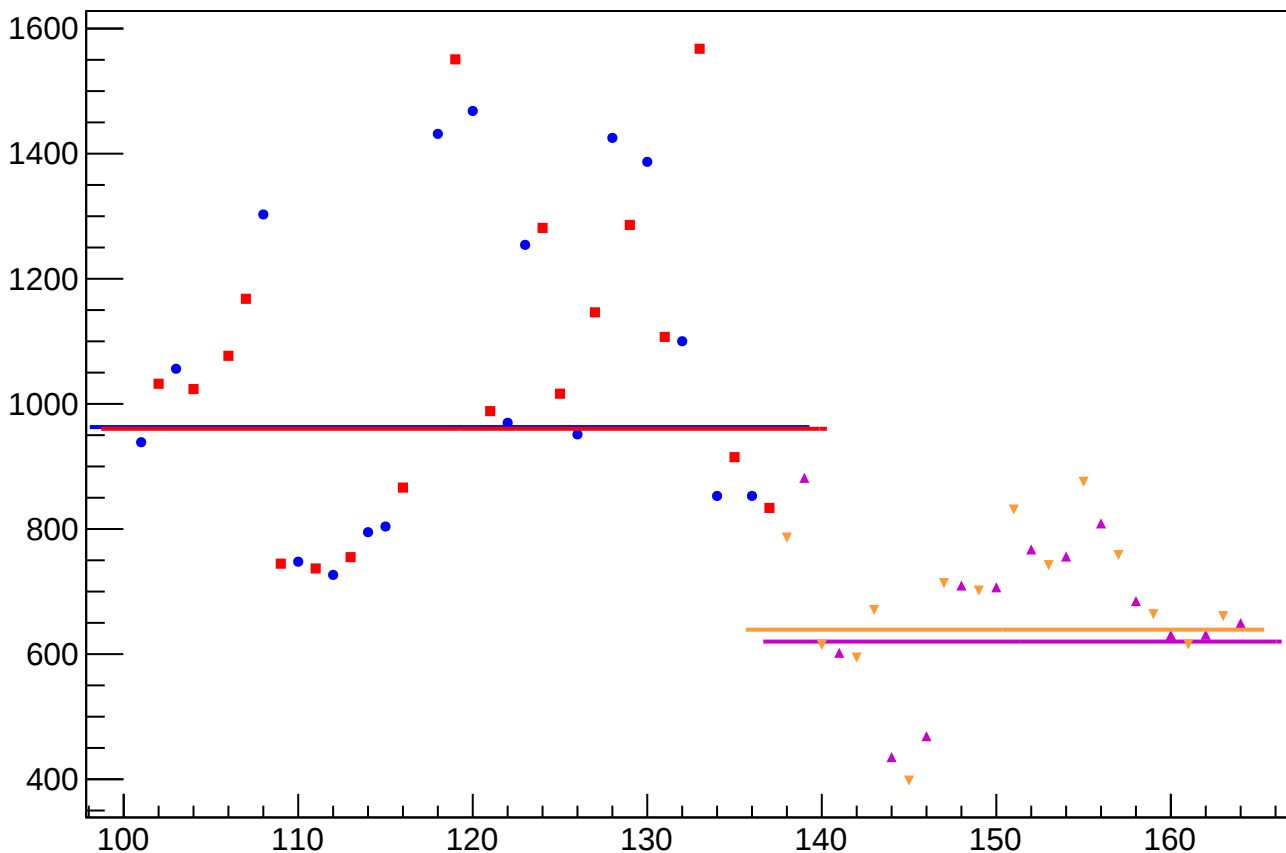
Left In: -71.919 $\pm$ 197.215  $\chi^2$ /NDF:9.1/12

+ sign 931.993 $\pm$ 177.832  $\chi^2$ /NDF: 56.4/30

All: 504.328 $\pm$ 124.473  $\chi^2$ /NDF: 87.8/61

- sign 93.549 $\pm$ 174.286  $\chi^2$ /NDF: 20.0/30

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 639.089 $\pm$ 0.142  $\chi^2$ /NDF: 918570.9/13

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

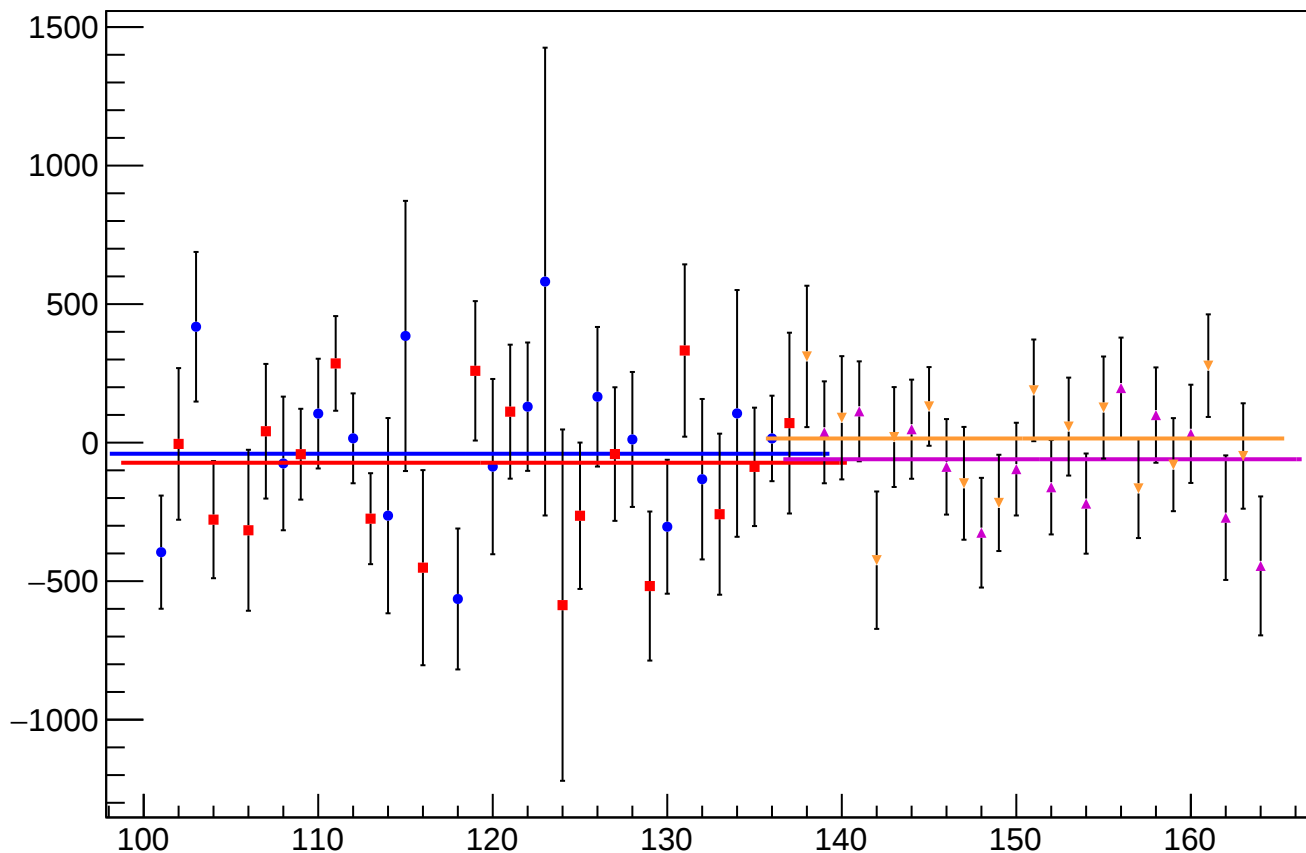
Left In: 620.070 $\pm$ 0.139  $\chi^2$ /NDF: 870478.8/12

+ sign 708.673 $\pm$ 0.126  $\chi^2$ /NDF: 2705173.1/30

All: 701.478 $\pm$ 0.088  $\chi^2$ /NDF: 5556093.7/61

- sign 694.566 $\pm$ 0.123  $\chi^2$ /NDF: 2844500.7/30

# dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-40.122 \pm 59.256$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $14.962 \pm 49.758$   $\chi^2/\text{NDF}$ : 12.5/13

Right Out:  $-72.607 \pm 56.313$   $\chi^2/\text{NDF}$ : 17.6/17

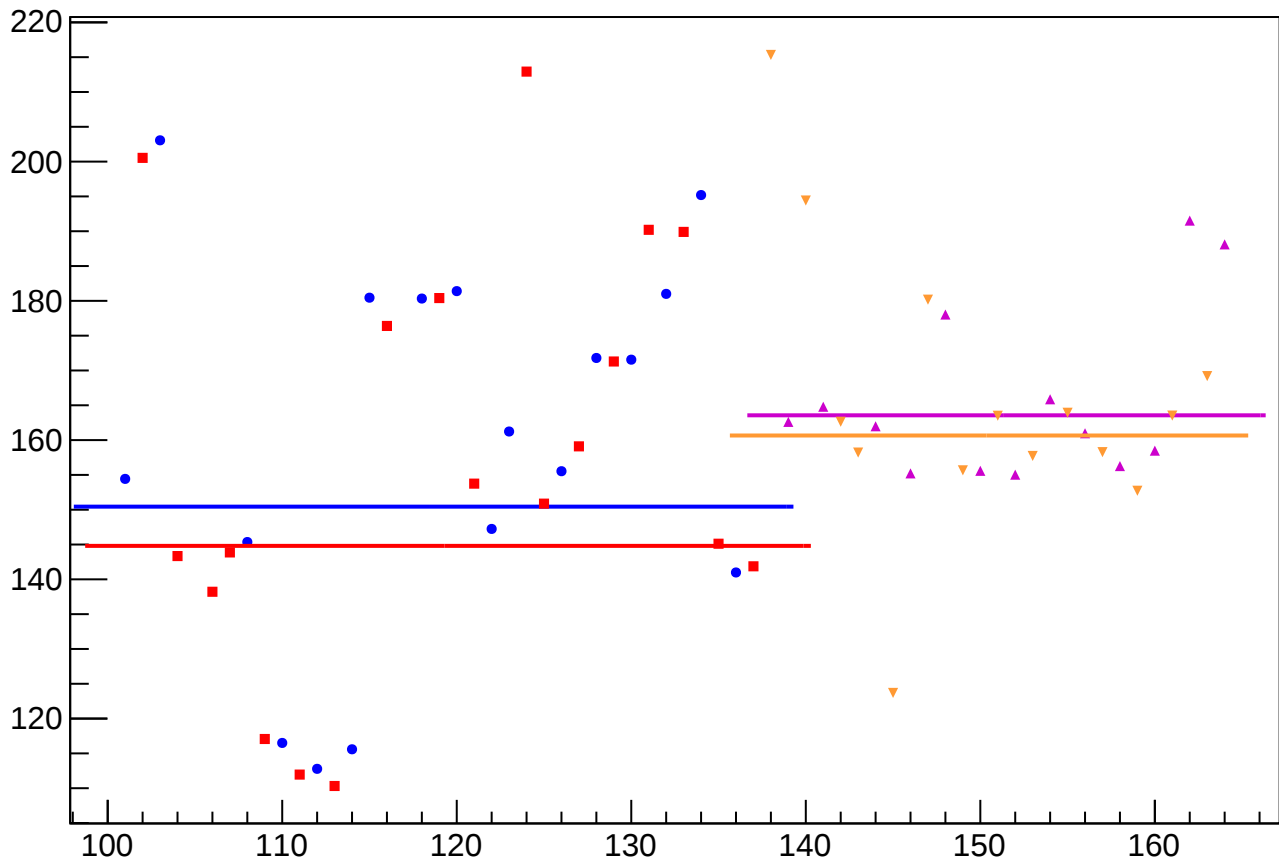
Left In:  $-59.987 \pm 51.108$   $\chi^2/\text{NDF}$ : 10.9/12

+ sign  $-7.817 \pm 38.105$   $\chi^2/\text{NDF}$ : 28.3/30

All:  $-36.950 \pm 26.852$   $\chi^2/\text{NDF}$ : 58.0/61

- sign  $-65.687 \pm 37.846$   $\chi^2/\text{NDF}$ : 28.5/30

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 160.661 $\pm$ 0.035  $\chi^2$ /NDF:304888.4/13

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

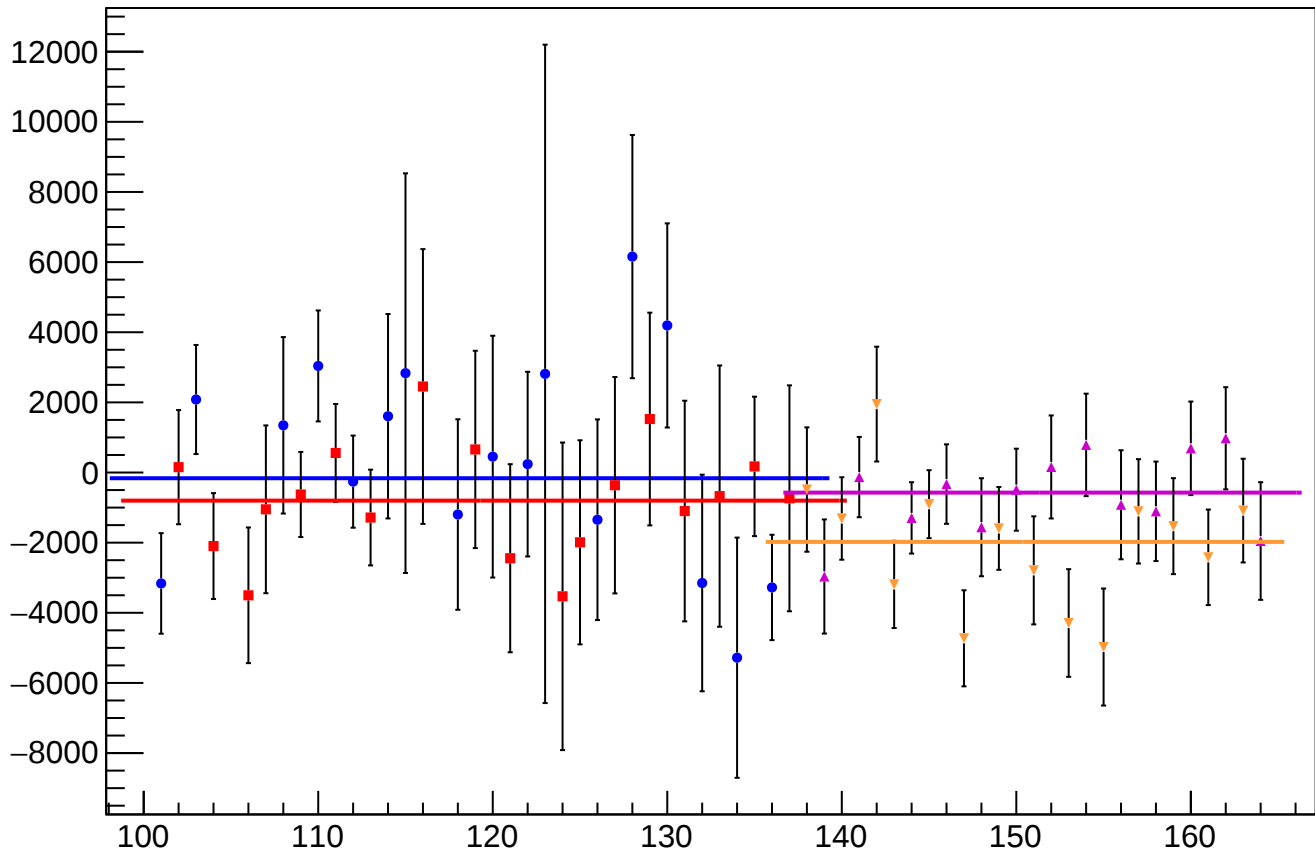
Left In: 163.560 $\pm$ 0.036  $\chi^2$ /NDF:81295.1/12

+ sign 156.435 $\pm$ 0.027  $\chi^2$ /NDF: 739893.5/30

All: 155.758 $\pm$ 0.019  $\chi^2$ /NDF: 1447926.7/61

- sign 155.090 $\pm$ 0.027  $\chi^2$ /NDF: 706779.7/30

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}$ : 25.1/16

Left Out:  $-1978.391 \pm 363.613$   $\chi^2/\text{NDF}$ : 19.8/13

Right Out:  $-801.139 \pm 486.610$   $\chi^2/\text{NDF}$ : 6.9/17

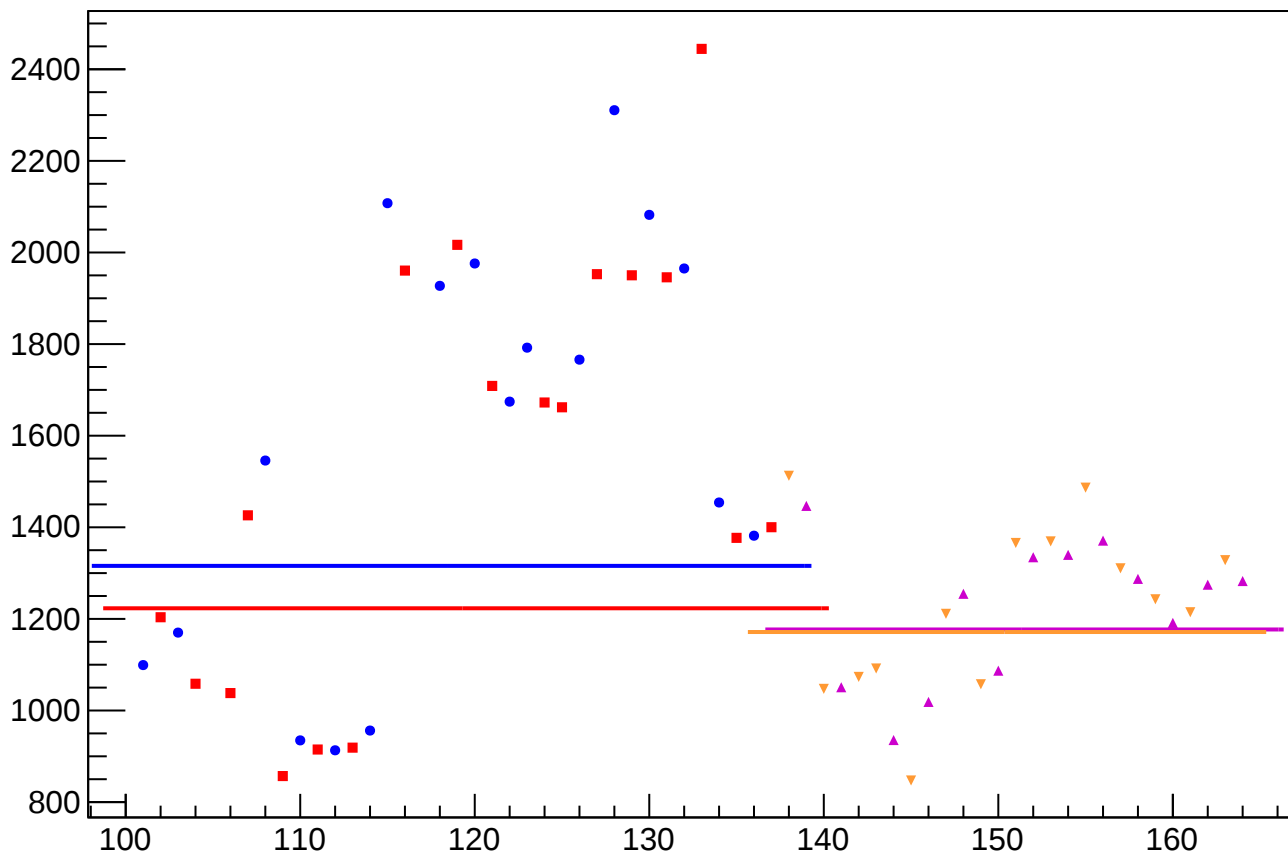
Left In:  $-572.754 \pm 368.617$   $\chi^2/\text{NDF}$ : 7.4/12

+ sign  $-1402.019 \pm 300.403$   $\chi^2/\text{NDF}$ : 52.8/30

All:  $-1020.770 \pm 210.054$   $\chi^2/\text{NDF}$ : 70.3/61

- sign  $-656.025 \pm 293.829$   $\chi^2/\text{NDF}$ : 14.4/30

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In: 1315.784+/-0.377  $\chi^2/\text{NDF}$ : 1118346.6/16

Left Out: 1171.383+/-0.257  $\chi^2/\text{NDF}$ : 539645.7/13

Right Out: 1223.179+/-0.344  $\chi^2/\text{NDF}$ : 1363055.0/17

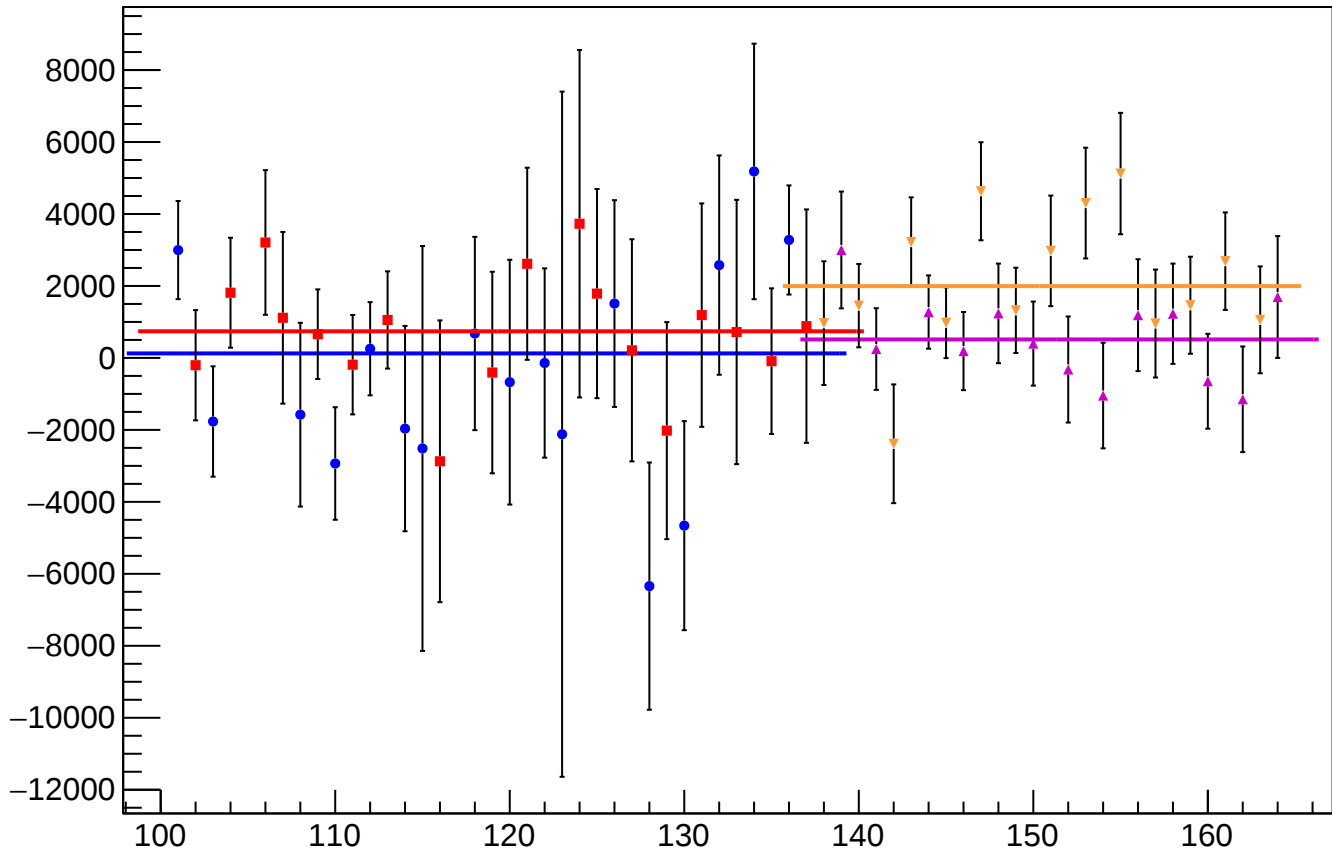
Left In: 1176.922+/-0.261  $\chi^2/\text{NDF}$ : 357176.1/12

+ sign 1217.224+/-0.212  $\chi^2/\text{NDF}$ : 1758126.2/30

All: 1205.247+/-0.149  $\chi^2/\text{NDF}$ : 3496061.9/63

- sign 1193.787+/-0.208  $\chi^2/\text{NDF}$ : 1731714.3/30

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 1995.924 $\pm$ 363.336  $\chi^2$ /NDF:21.1/13

Right Out: 739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

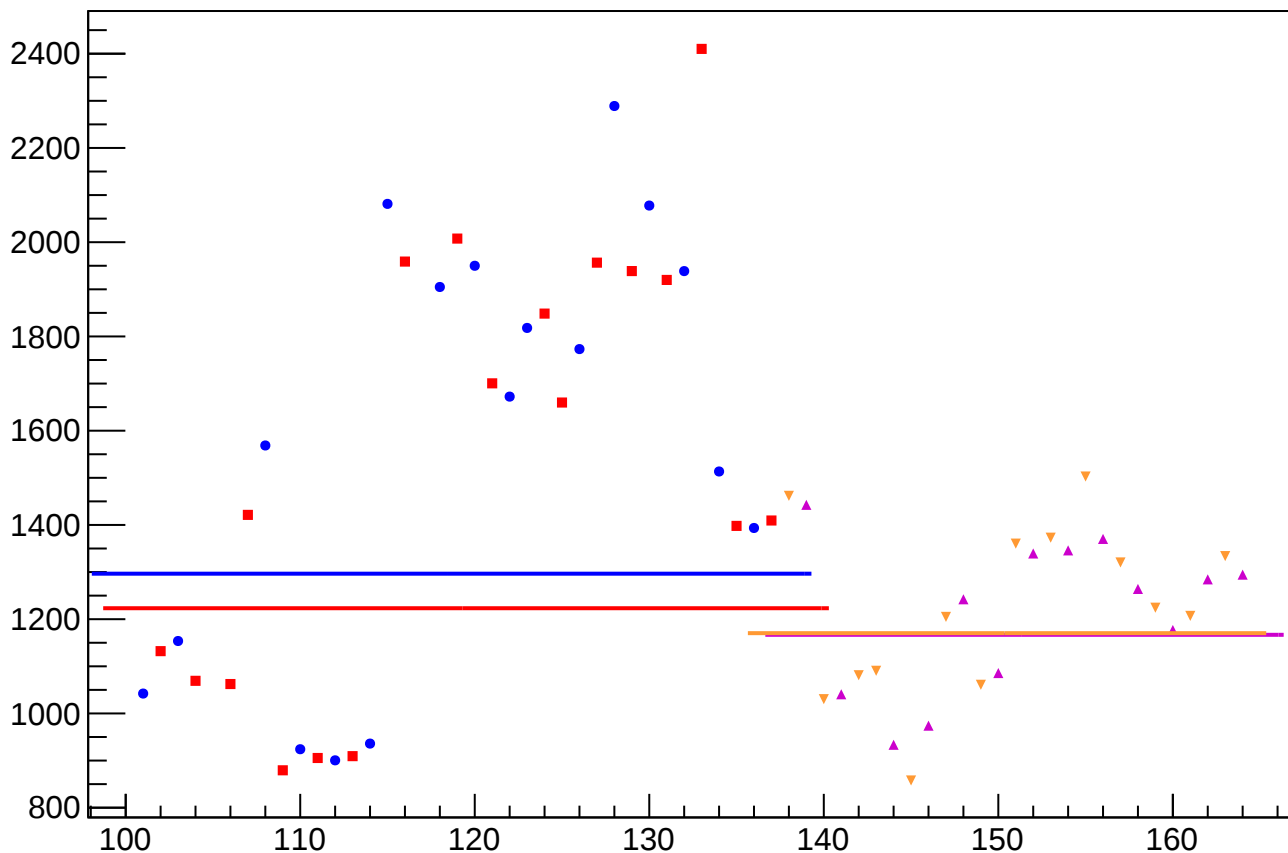
Left In: 513.765 $\pm$ 366.015  $\chi^2$ /NDF:7.8/12

+ sign 1392.953 $\pm$ 299.096  $\chi^2$ /NDF: 54.3/30

All: 985.380 $\pm$ 209.140  $\chi^2$ /NDF: 71.9/61

- sign 595.453 $\pm$ 292.550  $\chi^2$ /NDF: 13.9/30

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1296.573+/-0.373  $\chi^2$ /NDF: 1175465.2/16

Left Out: 1170.357+/-0.257  $\chi^2$ /NDF: 513416.2/13

Right Out: 1223.274+/-0.344  $\chi^2$ /NDF: 1346689.2/17

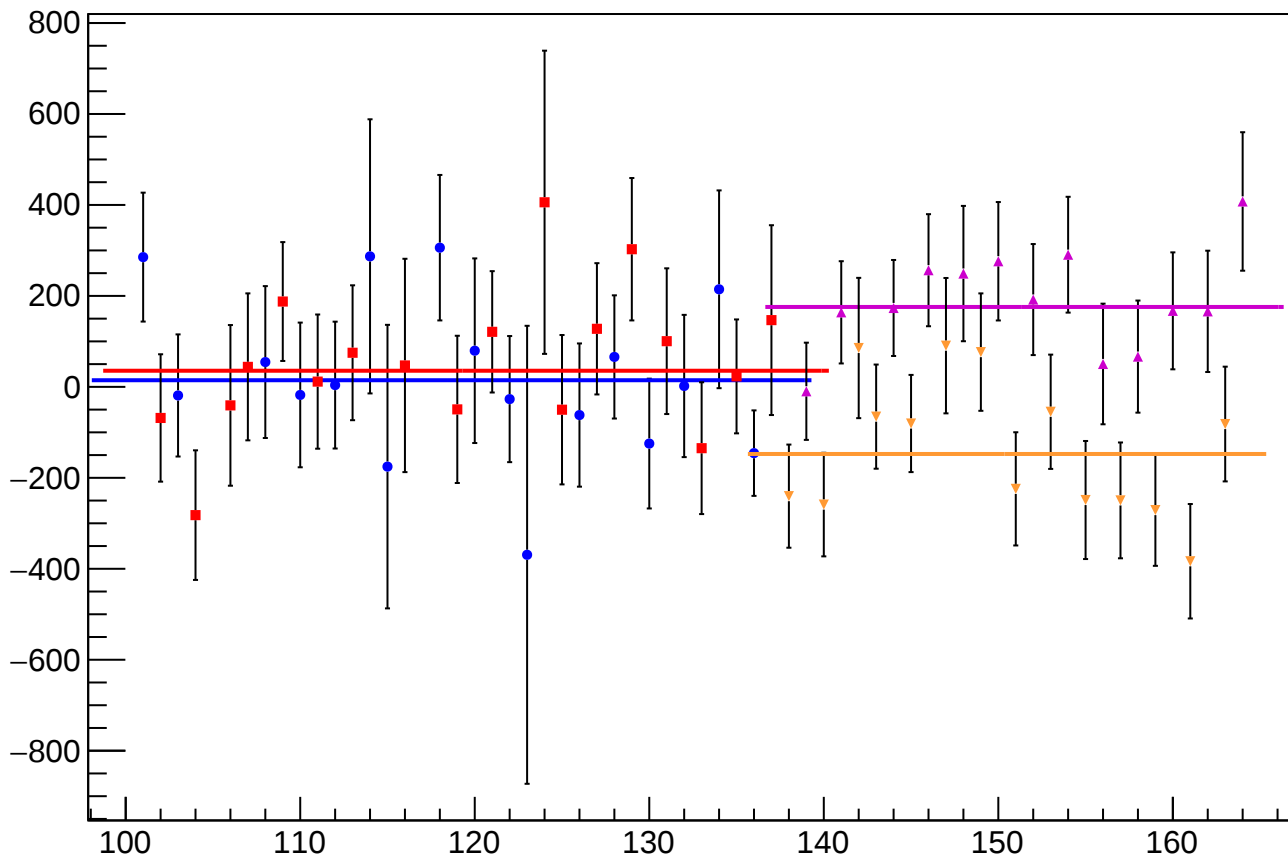
Left In: 1166.855+/-0.259  $\chi^2$ /NDF: 391743.5/12

+ sign 1211.043+/-0.211  $\chi^2$ /NDF: 1766680.4/30

All: 1198.873+/-0.148  $\chi^2$ /NDF: 3528754.4/63

- sign 1187.230+/-0.207  $\chi^2$ /NDF: 1755595.3/30

# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 14.577 $\pm$ 38.017  $\chi^2$ /NDF: 14.2/16

Left Out: -147.562 $\pm$ 33.198  $\chi^2$ /NDF:17.4/13

Right Out: 35.475 $\pm$ 36.728  $\chi^2$ /NDF: 14.5/17

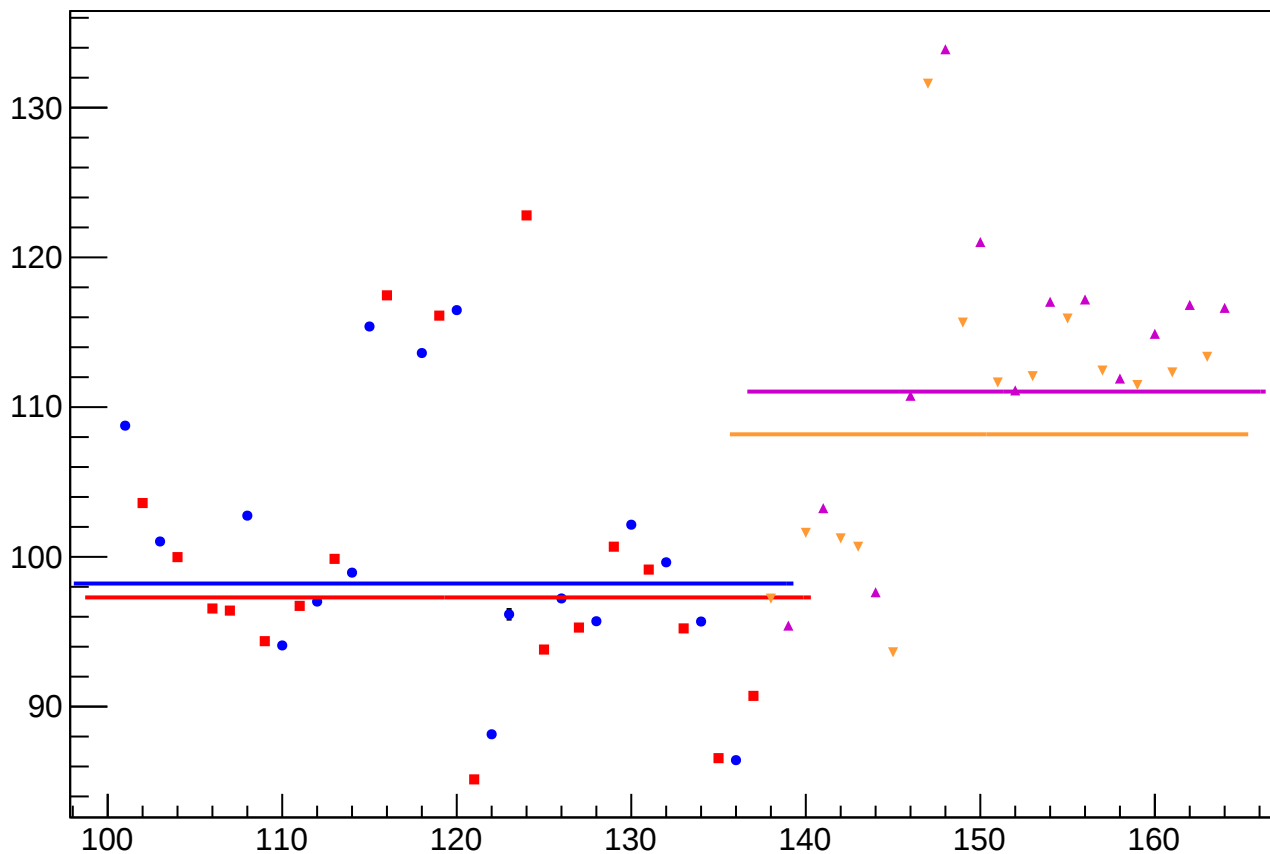
Left In: 175.702 $\pm$ 34.548  $\chi^2$ /NDF:9.1/12

+ sign -77.414 $\pm$ 25.006  $\chi^2$ /NDF: 41.9/30

All: 15.637 $\pm$ 17.738  $\chi^2$ /NDF: 101.1/61

- sign 109.874 $\pm$ 25.164  $\chi^2$ /NDF: 31.4/30

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 98.219+/-0.027  $\chi^2/\text{NDF}$ : 100510.4/16

Left Out: 108.184+/-0.023  $\chi^2/\text{NDF}$ : 151145.1/13

Right Out: 97.290+/-0.026  $\chi^2/\text{NDF}$ : 96216.6/17

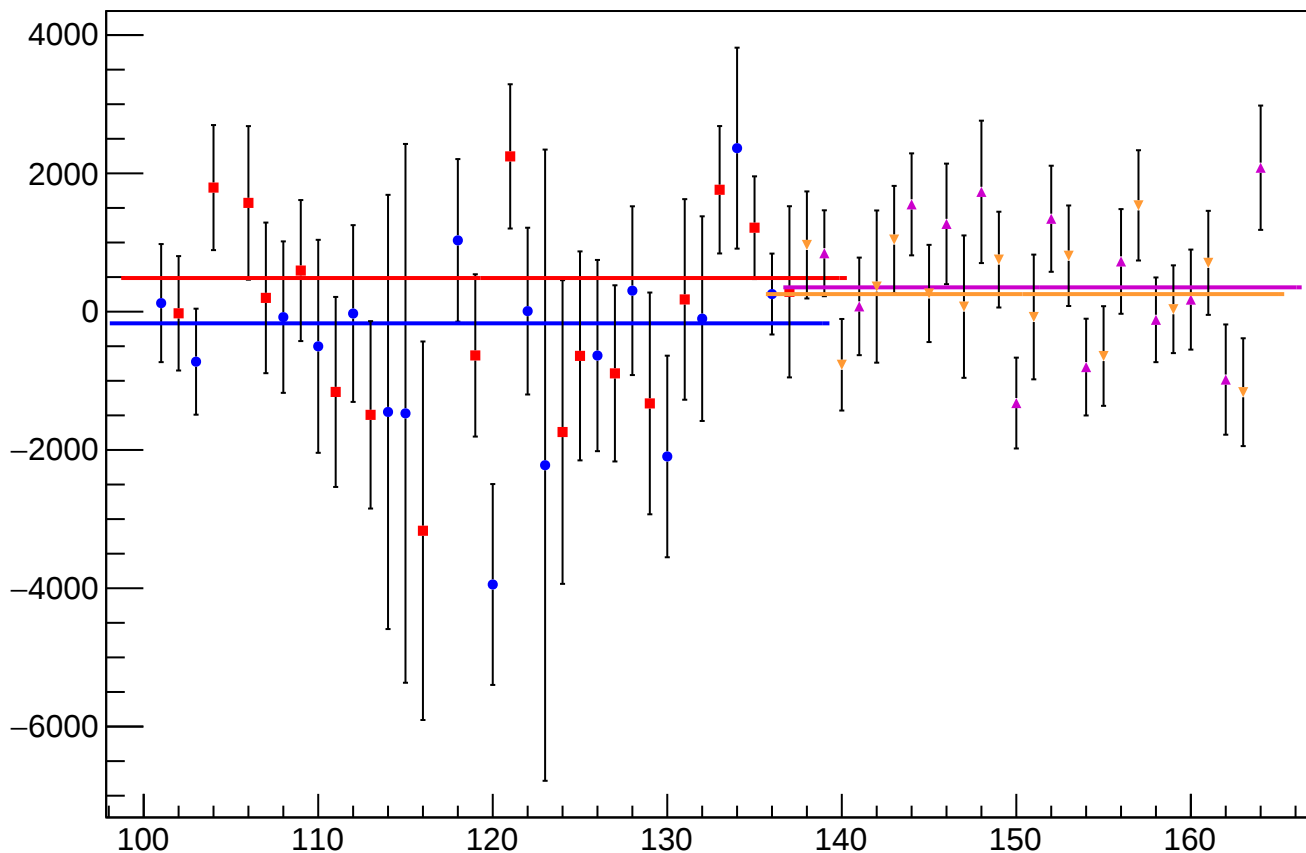
Left In: 111.037+/-0.024  $\chi^2/\text{NDF}$ : 160717.1/12

+ sign 103.873+/-0.018  $\chi^2/\text{NDF}$ : 329625.7/30

All: 104.226+/-0.013  $\chi^2/\text{NDF}$ : 736021.6/61

- sign 104.584+/-0.018  $\chi^2/\text{NDF}$ : 405592.5/30

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In: -168.802 $\pm$ 282.178  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: 253.933 $\pm$ 204.119  $\chi^2/\text{NDF}$ : 13.5/13

Right Out: 486.312 $\pm$ 268.010  $\chi^2/\text{NDF}$ : 19.6/17

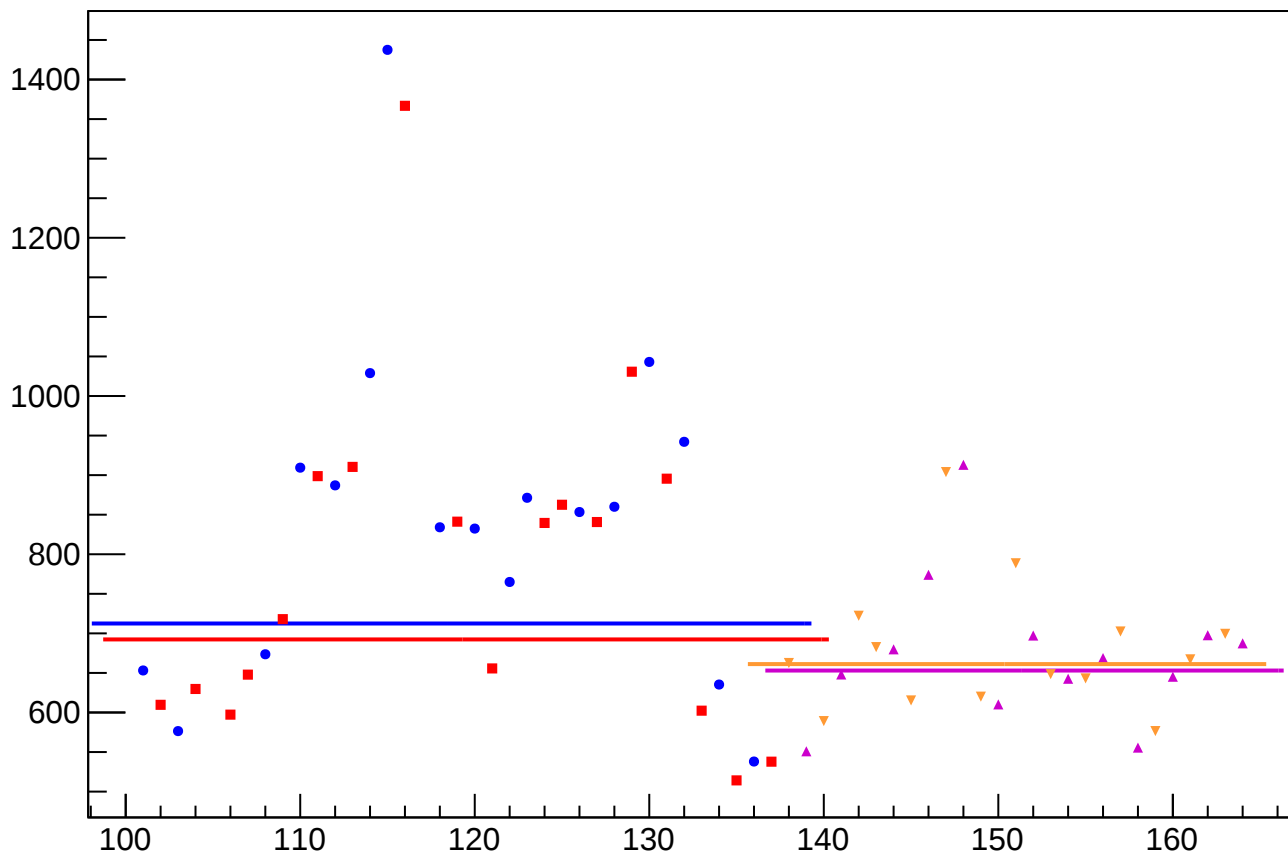
Left In: 351.615 $\pm$ 204.585  $\chi^2/\text{NDF}$ : 24.6/12

+ sign 108.717 $\pm$ 165.385  $\chi^2/\text{NDF}$ : 29.5/30

All: 257.427 $\pm$ 115.955  $\chi^2/\text{NDF}$ : 75.5/61

- sign 401.207 $\pm$ 162.620  $\chi^2/\text{NDF}$ : 44.4/30

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In:  $712.476 \pm 0.200$   $\chi^2/\text{NDF}$ : 660520.6/16

Left Out:  $661.172 \pm 0.144$   $\chi^2/\text{NDF}$ : 245770.8/13

Right Out:  $692.342 \pm 0.190$   $\chi^2/\text{NDF}$ : 656953.1/17

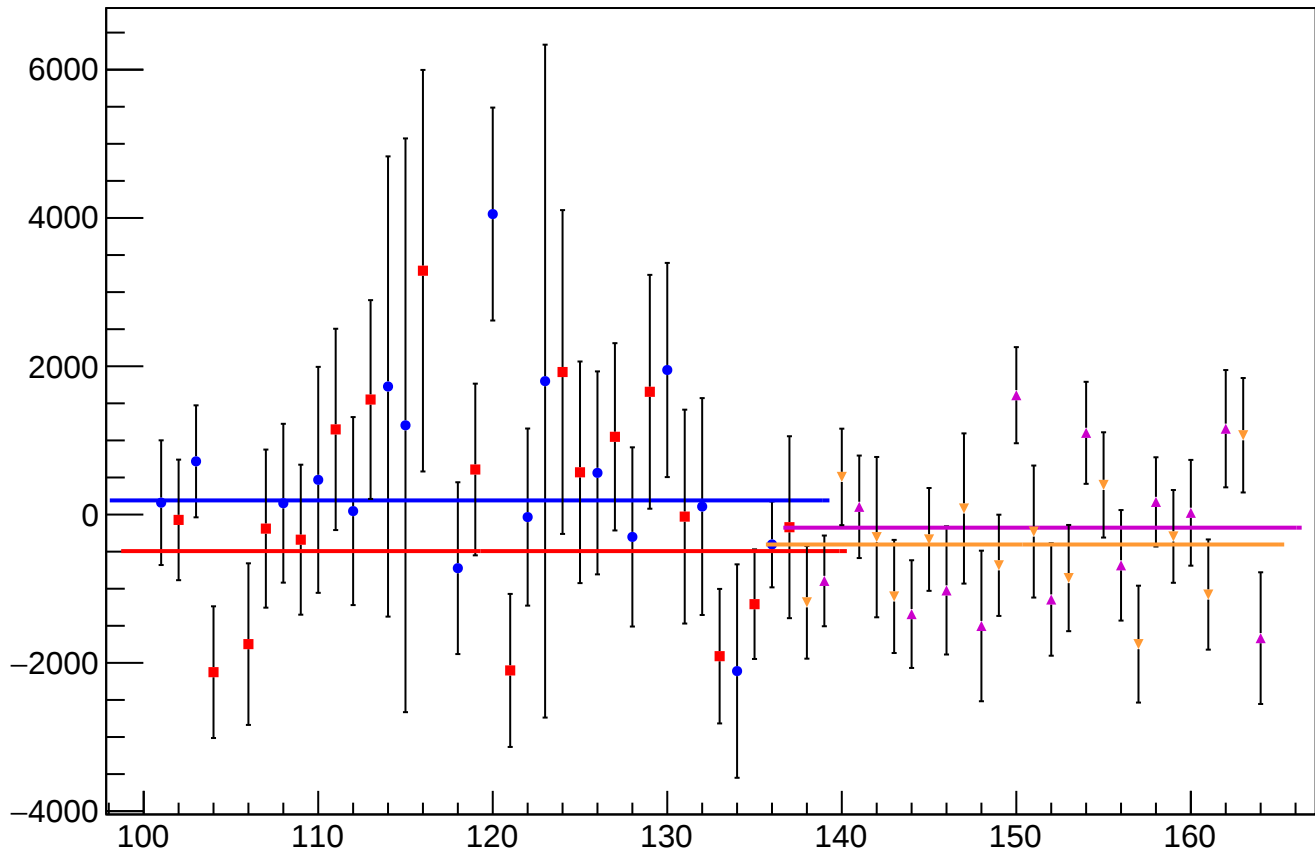
Left In:  $653.016 \pm 0.145$   $\chi^2/\text{NDF}$ : 299295.1/12

+ sign  $678.795 \pm 0.117$   $\chi^2/\text{NDF}$ : 949693.9/30

All:  $673.050 \pm 0.082$   $\chi^2/\text{NDF}$ : 1937897.0/61

- sign  $667.495 \pm 0.115$   $\chi^2/\text{NDF}$ : 983455.6/30

# asym\_sam\_15\_dd\_mean vs Slug



Right In: 190.880 $\pm$ 278.670  $\chi^2$ /NDF: 14.2/16

Left Out: -403.719 $\pm$ 201.136  $\chi^2$ /NDF:13.4/13

Right Out: -492.784 $\pm$ 264.629  $\chi^2$ /NDF: 22.8/17

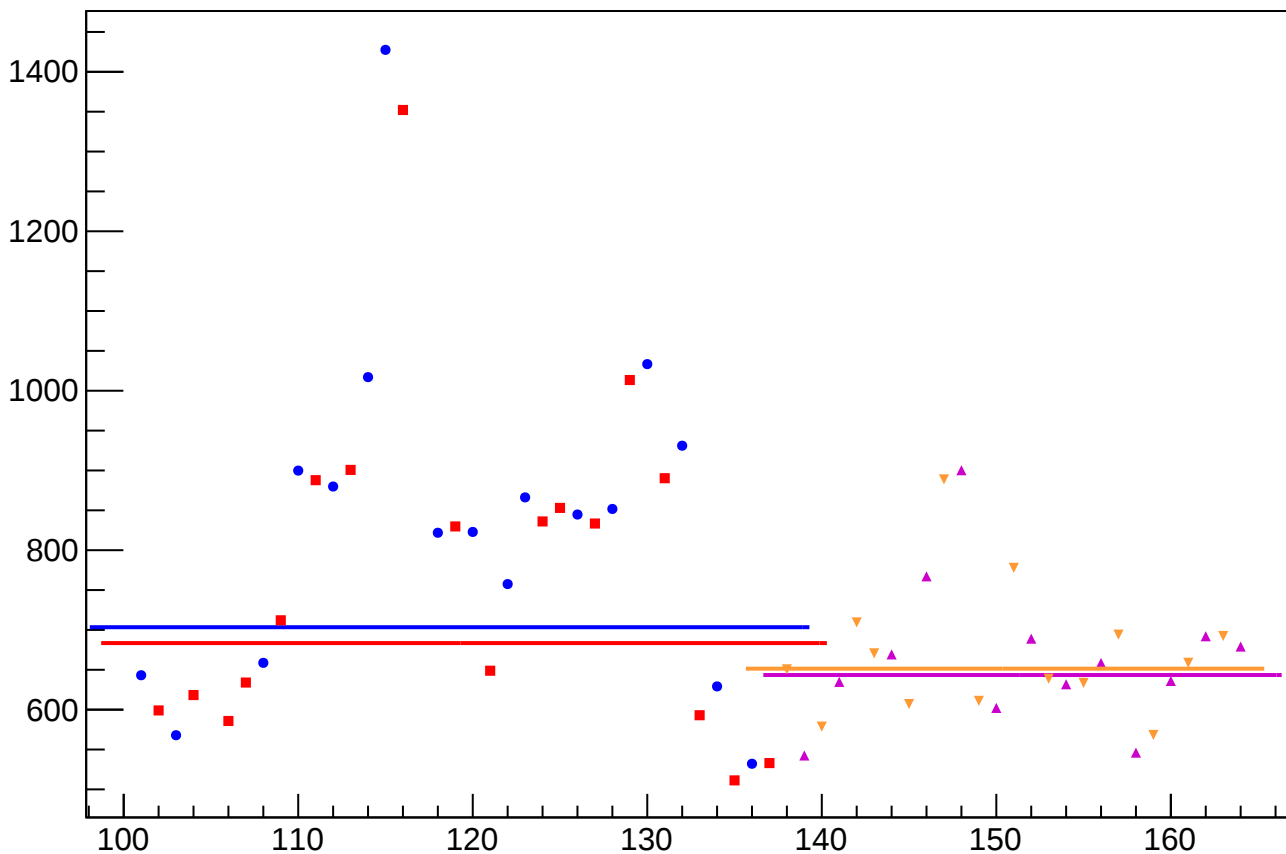
Left In: -176.829 $\pm$ 201.639  $\chi^2$ /NDF:26.0/12

+ sign -200.059 $\pm$ 163.092  $\chi^2$ /NDF: 30.6/30

All: -247.250 $\pm$ 114.354  $\chi^2$ /NDF: 80.4/61

- sign -292.888 $\pm$ 160.385  $\chi^2$ /NDF: 49.7/30

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 703.406+/-0.197  $\chi^2/\text{NDF}$ : 666885.8/16

Left Out: 651.417+/-0.142  $\chi^2/\text{NDF}$ : 246317.9/13

Right Out: 683.493+/-0.187  $\chi^2/\text{NDF}$ : 659356.0/17

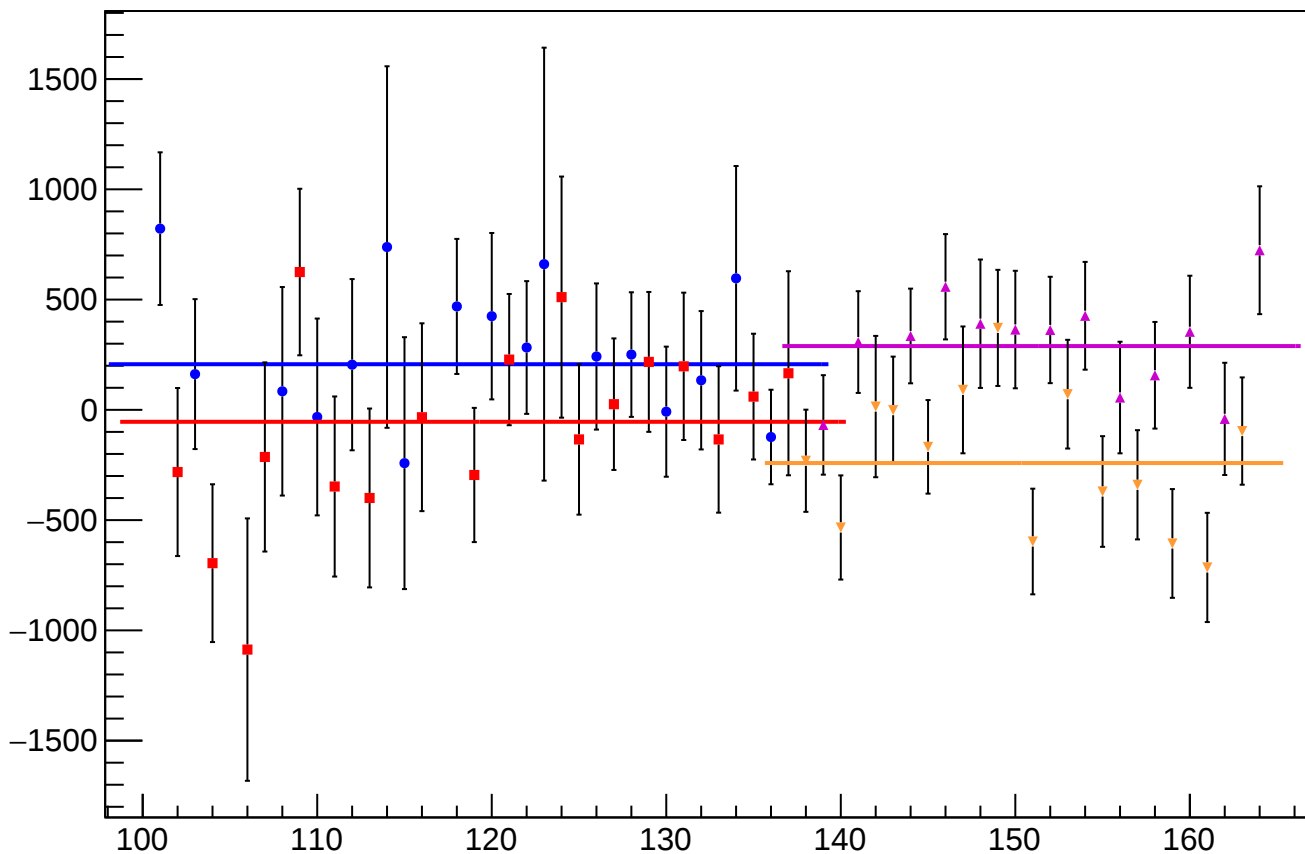
Left In: 643.431+/-0.143  $\chi^2/\text{NDF}$ : 306331.6/12

+ sign 669.224+/-0.115  $\chi^2/\text{NDF}$ : 958971.5/30

All: 663.593+/-0.081  $\chi^2/\text{NDF}$ : 1958349.4/61

- sign 658.147+/-0.113  $\chi^2/\text{NDF}$ : 994687.4/30

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In:  $206.874 \pm 85.632$   $\chi^2/\text{NDF}$ : 9.5/16

Left Out:  $-241.162 \pm 66.269$   $\chi^2/\text{NDF}$ : 20.4/13

Right Out:  $-54.185 \pm 85.192$   $\chi^2/\text{NDF}$ : 15.7/17

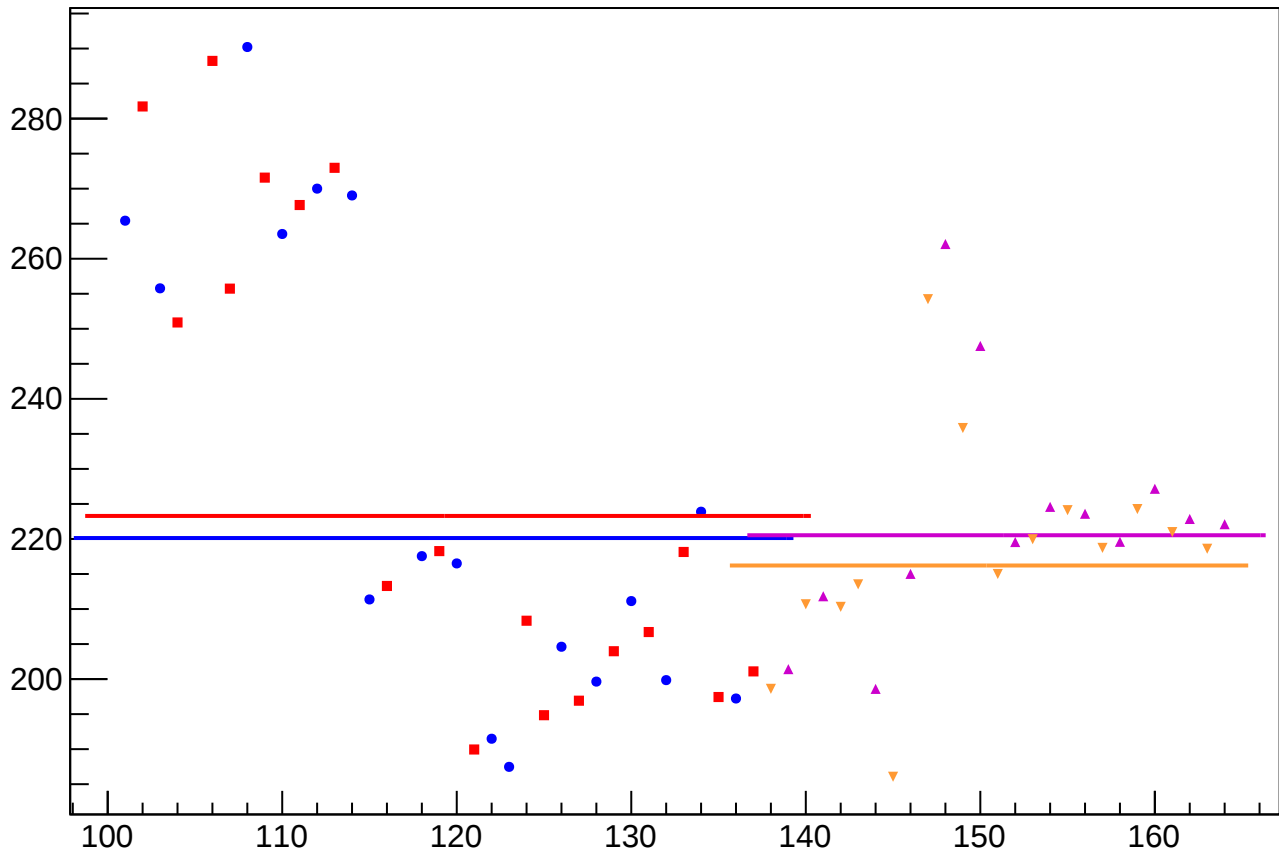
Left In:  $289.196 \pm 68.507$   $\chi^2/\text{NDF}$ : 9.6/12

+ sign  $-73.341 \pm 52.408$   $\chi^2/\text{NDF}$ : 47.1/30

All:  $38.397 \pm 37.400$   $\chi^2/\text{NDF}$ : 91.4/61

- sign  $154.347 \pm 53.387$   $\chi^2/\text{NDF}$ : 35.1/30

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 220.133 $\pm$ 0.061  $\chi^2$ /NDF: 228444.0/16

Left Out: 216.214 $\pm$ 0.047  $\chi^2$ /NDF: 105790.0/13

Right Out: 223.287 $\pm$ 0.060  $\chi^2$ /NDF: 272255.2/17

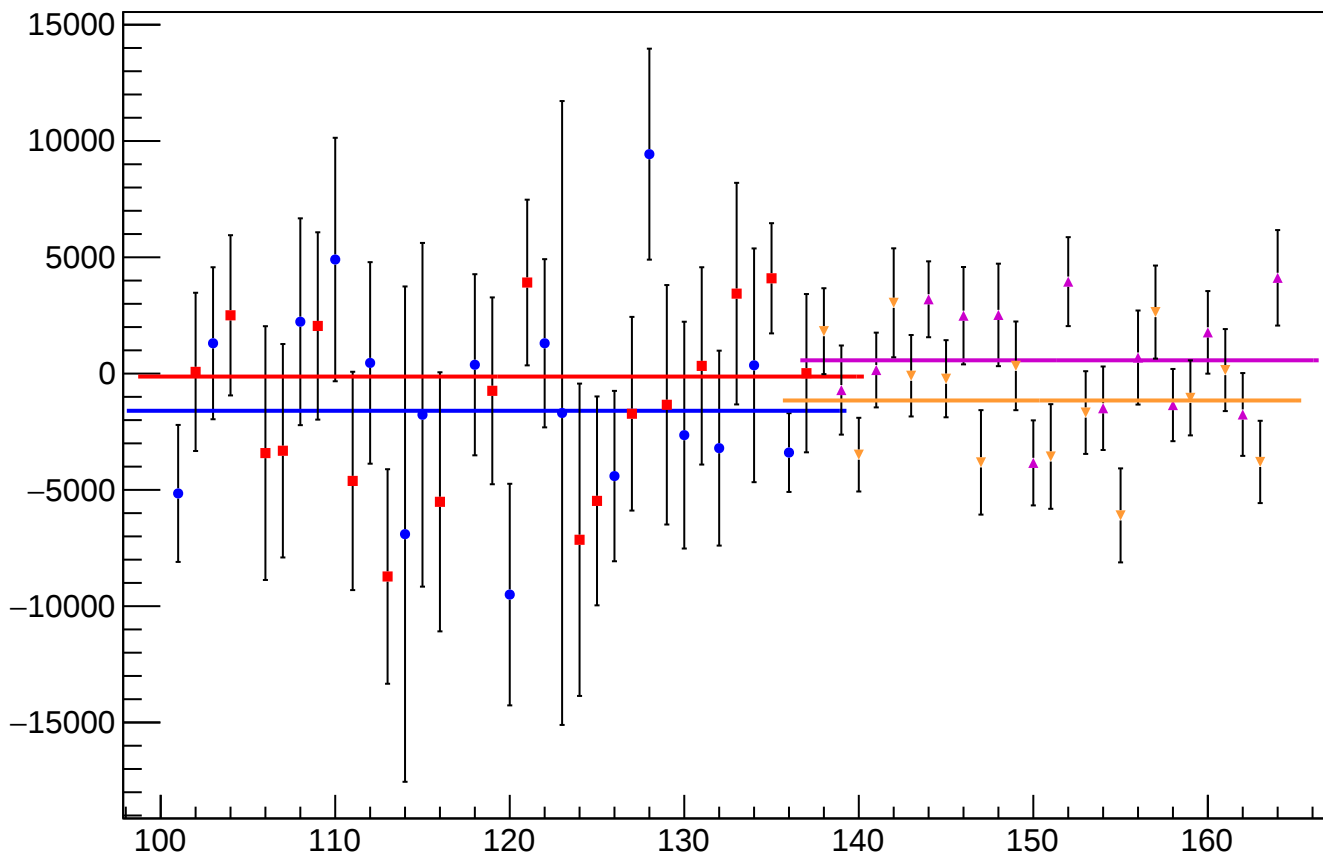
Left In: 220.532 $\pm$ 0.048  $\chi^2$ /NDF: 102971.1/12

+ sign 217.682 $\pm$ 0.037  $\chi^2$ /NDF: 336853.7/30

All: 219.611 $\pm$ 0.026  $\chi^2$ /NDF: 718876.3/61

- sign 221.614 $\pm$ 0.038  $\chi^2$ /NDF: 376497.2/30

# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In: -1599.045 $\pm$ 921.042  $\chi^2$ /NDF: 16.6/16

Left Out: -1155.886 $\pm$ 495.646  $\chi^2$ /NDF: 24.3/13

Right Out: -127.760 $\pm$ 949.094  $\chi^2$ /NDF: 14.8/17

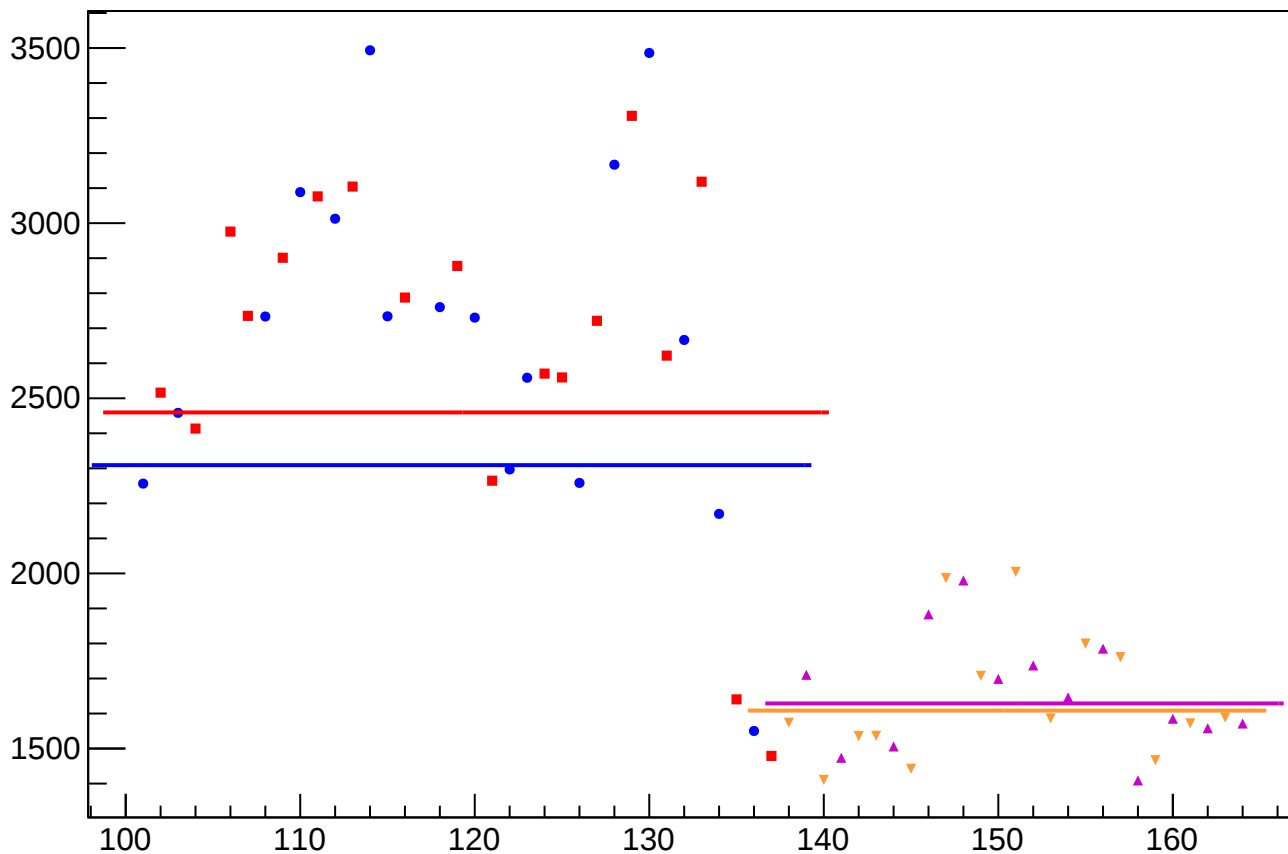
Left In: 571.149 $\pm$ 507.584  $\chi^2$ /NDF: 21.7/12

+ sign -1255.402 $\pm$ 436.462  $\chi^2$ /NDF: 41.1/30

All: -440.888 $\pm$ 312.486  $\chi^2$ /NDF: 85.2/61

- sign 415.706 $\pm$ 447.594  $\chi^2$ /NDF: 36.9/30

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2309.132+/-0.651  $\chi^2/\text{NDF}$ : 800728.2/16

Left Out: 1608.337+/-0.350  $\chi^2/\text{NDF}$ : 227794.2/13

Right Out: 2459.603+/-0.671  $\chi^2/\text{NDF}$ : 668179.2/17

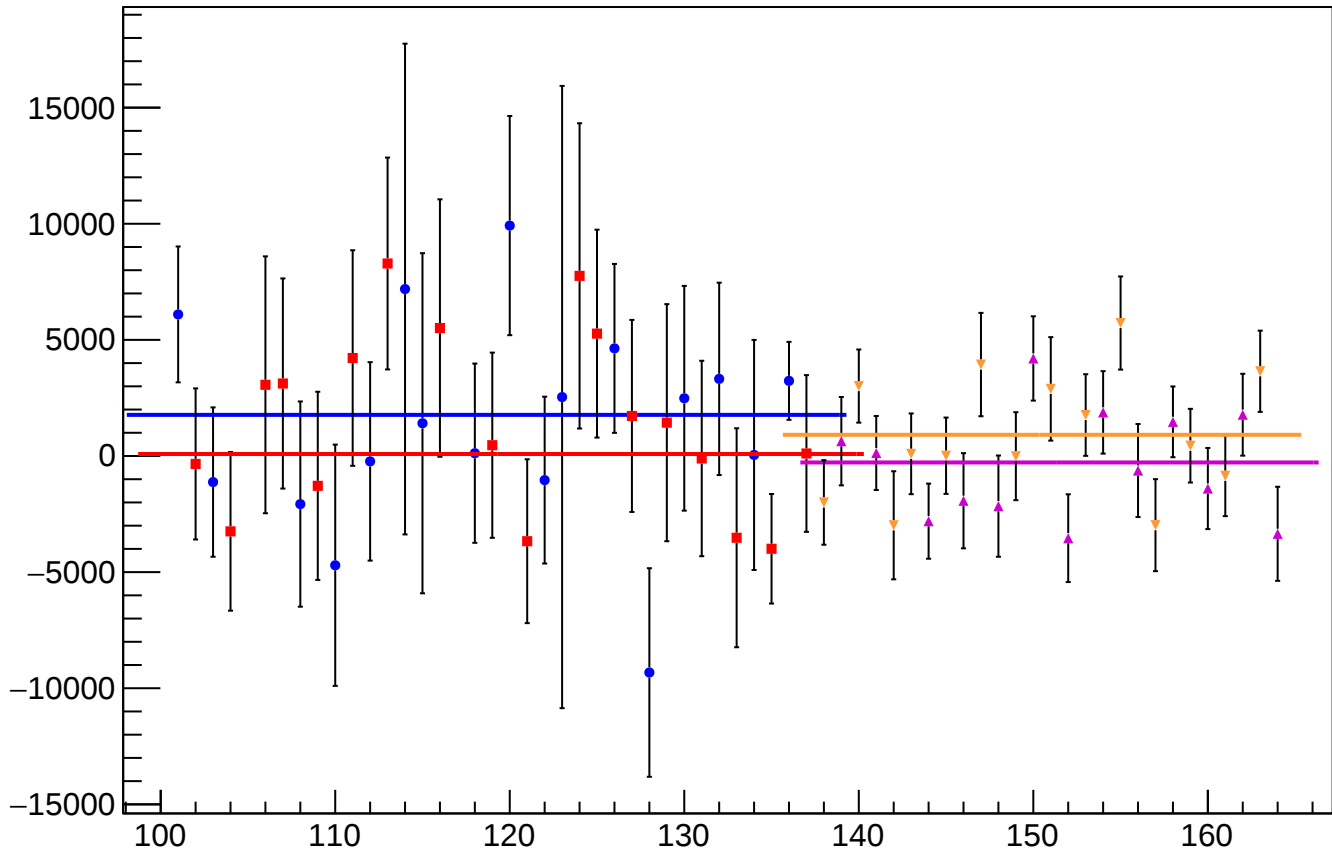
Left In: 1628.779+/-0.359  $\chi^2/\text{NDF}$ : 181483.1/12

+ sign 1765.708+/-0.309  $\chi^2/\text{NDF}$ : 1926366.1/30

All: 1789.032+/-0.221  $\chi^2/\text{NDF}$ : 3979488.6/61

- sign 1813.560+/-0.316  $\chi^2/\text{NDF}$ : 2041404.7/30

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1771.279 $\pm$ 912.328  $\chi^2$ /NDF: 17.3/16

Left Out: 913.253 $\pm$ 490.564  $\chi^2$ /NDF:23.9/13

Right Out: 86.080 $\pm$ 939.852  $\chi^2$ /NDF: 14.5/17

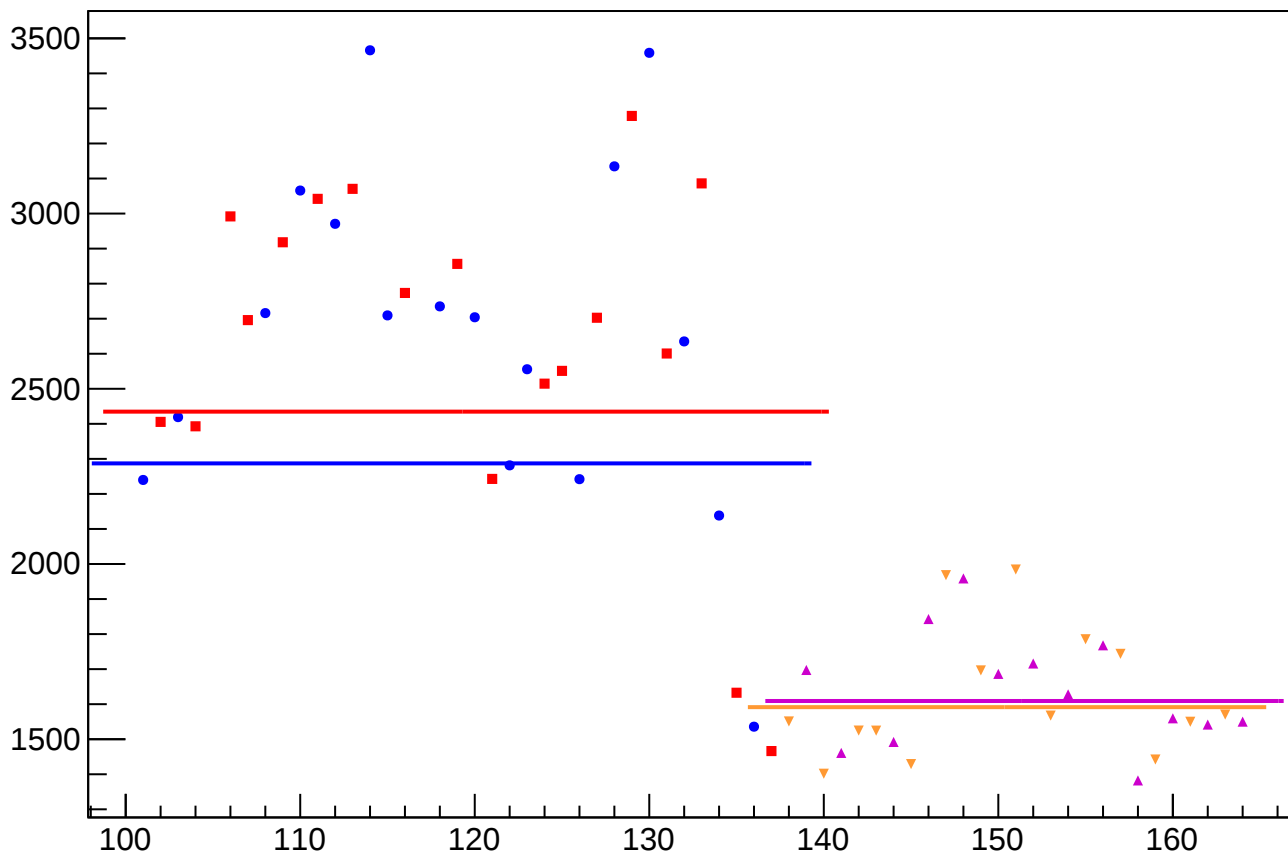
Left In: -277.948 $\pm$ 501.517  $\chi^2$ /NDF:20.1/12

+ sign 1105.693 $\pm$ 432.064  $\chi^2$ /NDF: 42.0/30

All: 469.705 $\pm$ 309.127  $\chi^2$ /NDF: 81.1/61

- sign -197.267 $\pm$ 442.464  $\chi^2$ /NDF: 34.7/30

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1591.503+/-0.347  $\chi^2/\text{NDF}$ : 229917.4/13

Right Out: 2434.786+/-0.665  $\chi^2/\text{NDF}$ : 666938.3/17

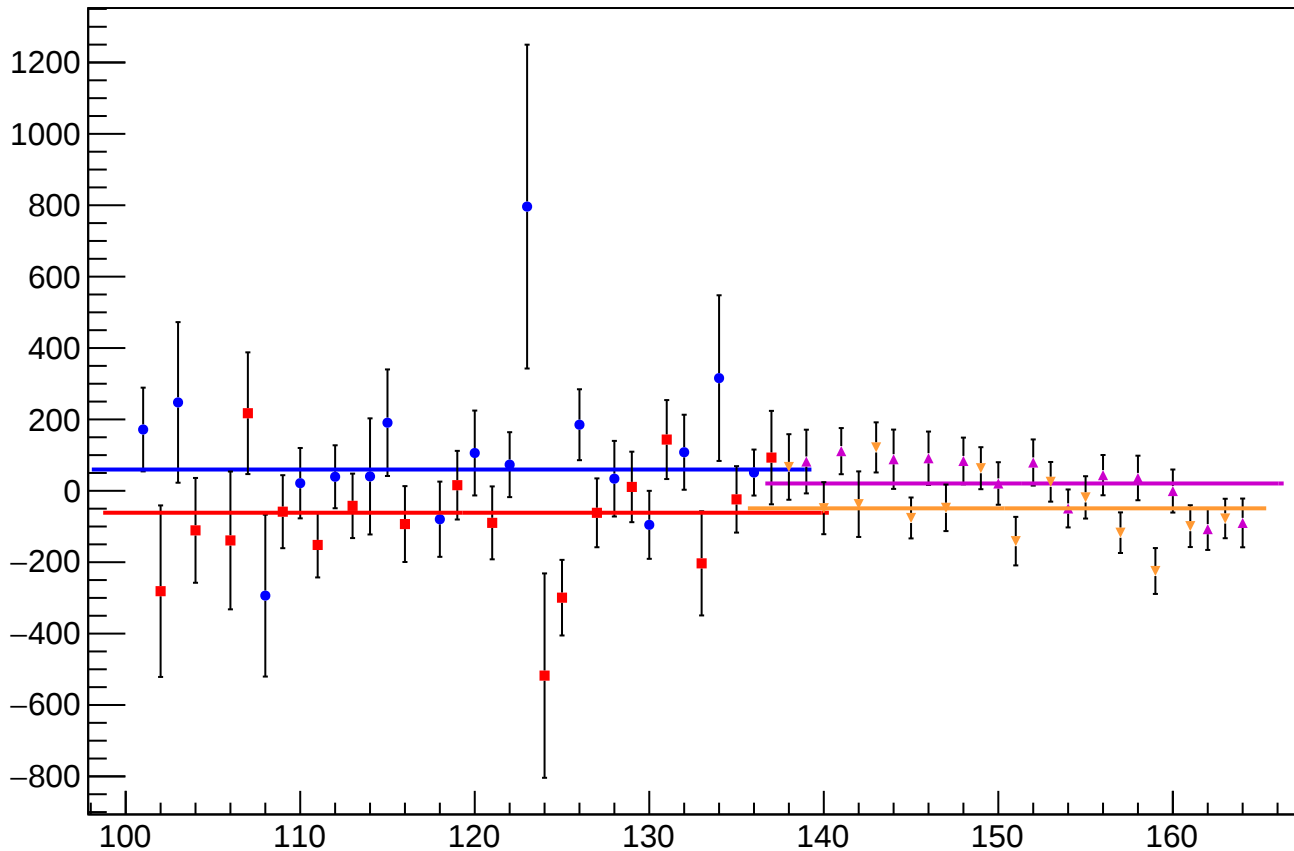
Left In: 1609.091+/-0.355  $\chi^2/\text{NDF}$ : 182951.2/12

+ sign 1747.513+/-0.306  $\chi^2/\text{NDF}$ : 1931197.4/30

All: 1769.273+/-0.219  $\chi^2/\text{NDF}$ : 3993008.4/63

- sign 1792.093+/-0.313  $\chi^2/\text{NDF}$ : 2051418.6/30

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In:  $59.656 \pm 27.080$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $-49.097 \pm 17.023$   $\chi^2/\text{NDF}$ : 25.2/13

Right Out:  $-61.399 \pm 27.011$   $\chi^2/\text{NDF}$ : 19.7/17

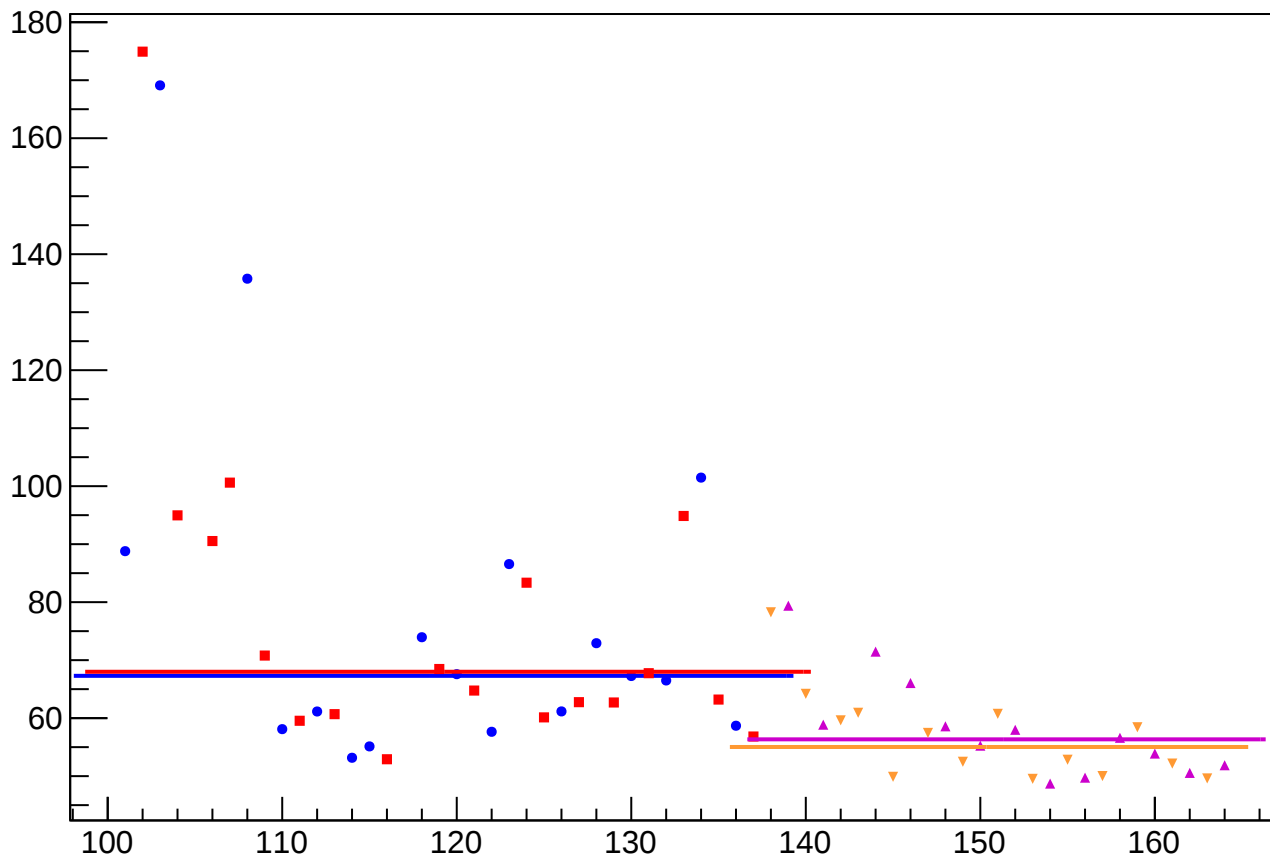
Left In:  $20.581 \pm 17.813$   $\chi^2/\text{NDF}$ : 15.3/12

+ sign  $-18.295 \pm 14.412$   $\chi^2/\text{NDF}$ : 52.1/30

All:  $-11.501 \pm 10.349$   $\chi^2/\text{NDF}$ : 93.9/61

- sign  $-4.267 \pm 14.871$   $\chi^2/\text{NDF}$ : 41.4/30

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In:  $67.297 \pm 0.019$   $\chi^2/\text{NDF}$ : 841352.2/16

Left Out:  $55.026 \pm 0.012$   $\chi^2/\text{NDF}$ : 282879.5/13

Right Out:  $67.998 \pm 0.019$   $\chi^2/\text{NDF}$ : 754329.7/17

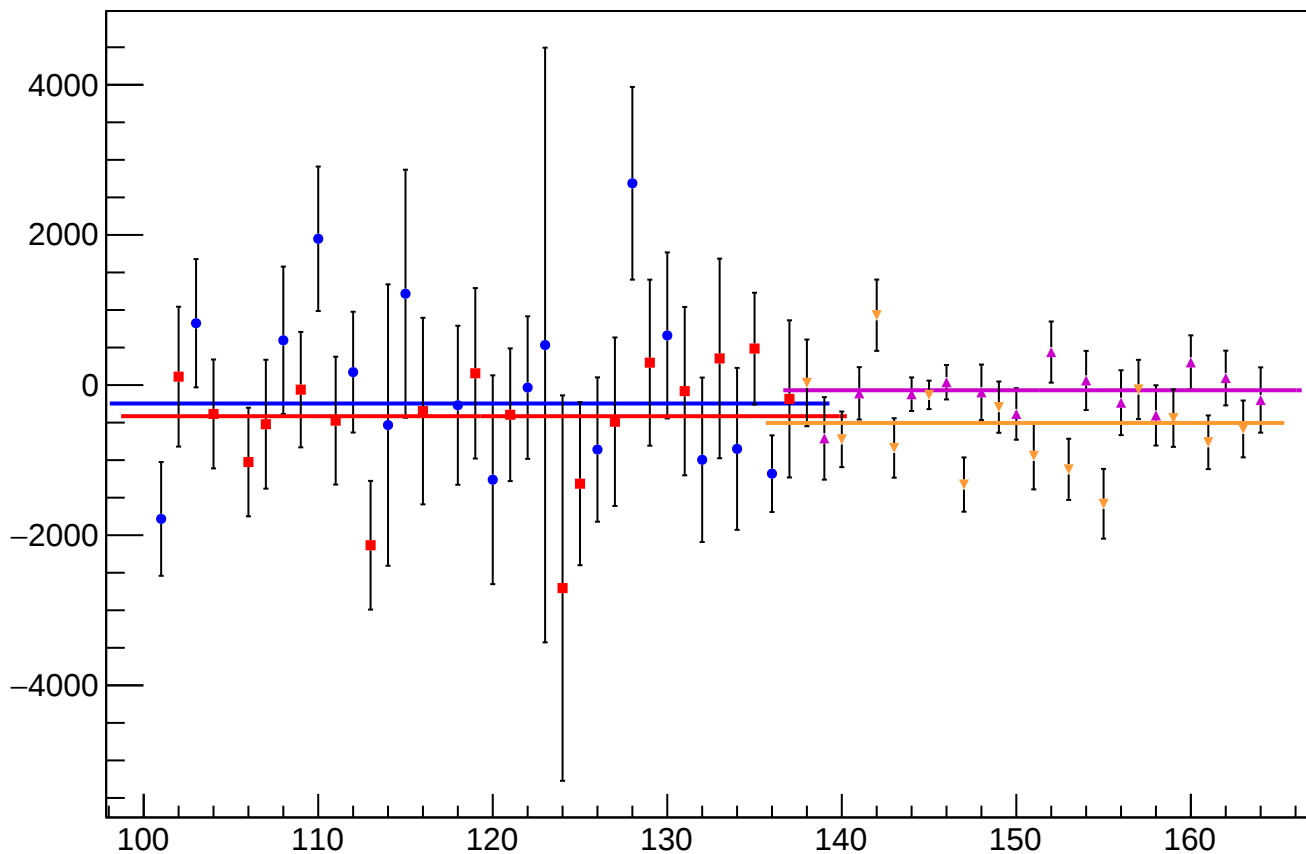
Left In:  $56.346 \pm 0.013$   $\chi^2/\text{NDF}$ : 340985.3/12

+ sign  $58.502 \pm 0.010$   $\chi^2/\text{NDF}$ : 1418577.8/30

All:  $59.168 \pm 0.007$   $\chi^2/\text{NDF}$ : 2782126.3/61

- sign  $59.877 \pm 0.011$   $\chi^2/\text{NDF}$ : 1354721.3/30

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In: -245.631+/-235.404  $\chi^2/\text{NDF}$ : 23.8/16

Left Out: -504.577+/-95.871  $\chi^2/\text{NDF}$ : 31.0/13

Right Out: -414.725+/-222.788  $\chi^2/\text{NDF}$ : 9.4/17

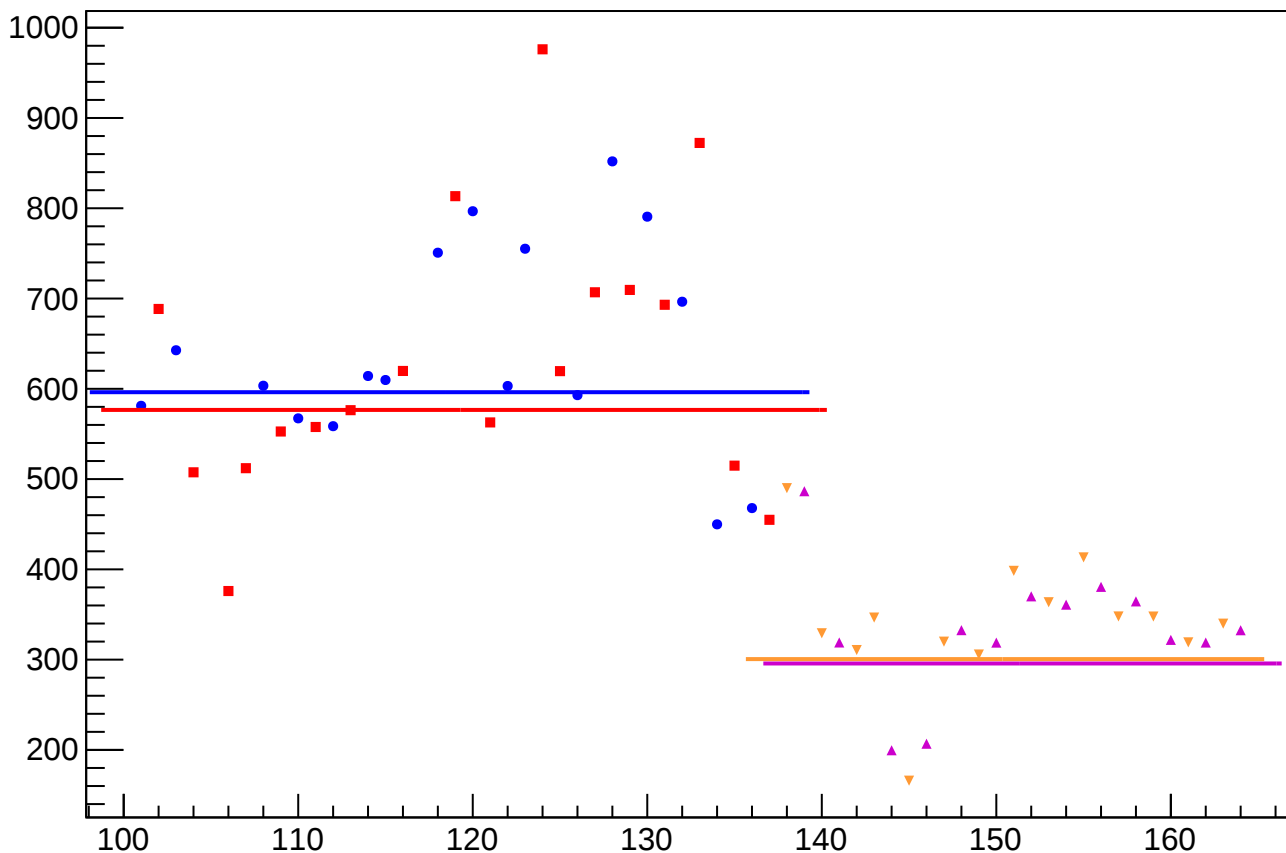
Left In: -69.294+/-94.981  $\chi^2/\text{NDF}$ : 6.4/12

+ sign -467.738+/-88.790  $\chi^2/\text{NDF}$ : 55.8/30

All: -292.300+/-62.277  $\chi^2/\text{NDF}$ : 81.2/61

- sign -122.422+/-87.372  $\chi^2/\text{NDF}$ : 17.8/30

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 596.246 $\pm$ 0.166  $\chi^2$ /NDF: 422153.3/16

Left Out: 300.594 $\pm$ 0.068  $\chi^2$ /NDF:1615495.6/13

Right Out: 576.614 $\pm$ 0.158  $\chi^2$ /NDF: 573658.2/17

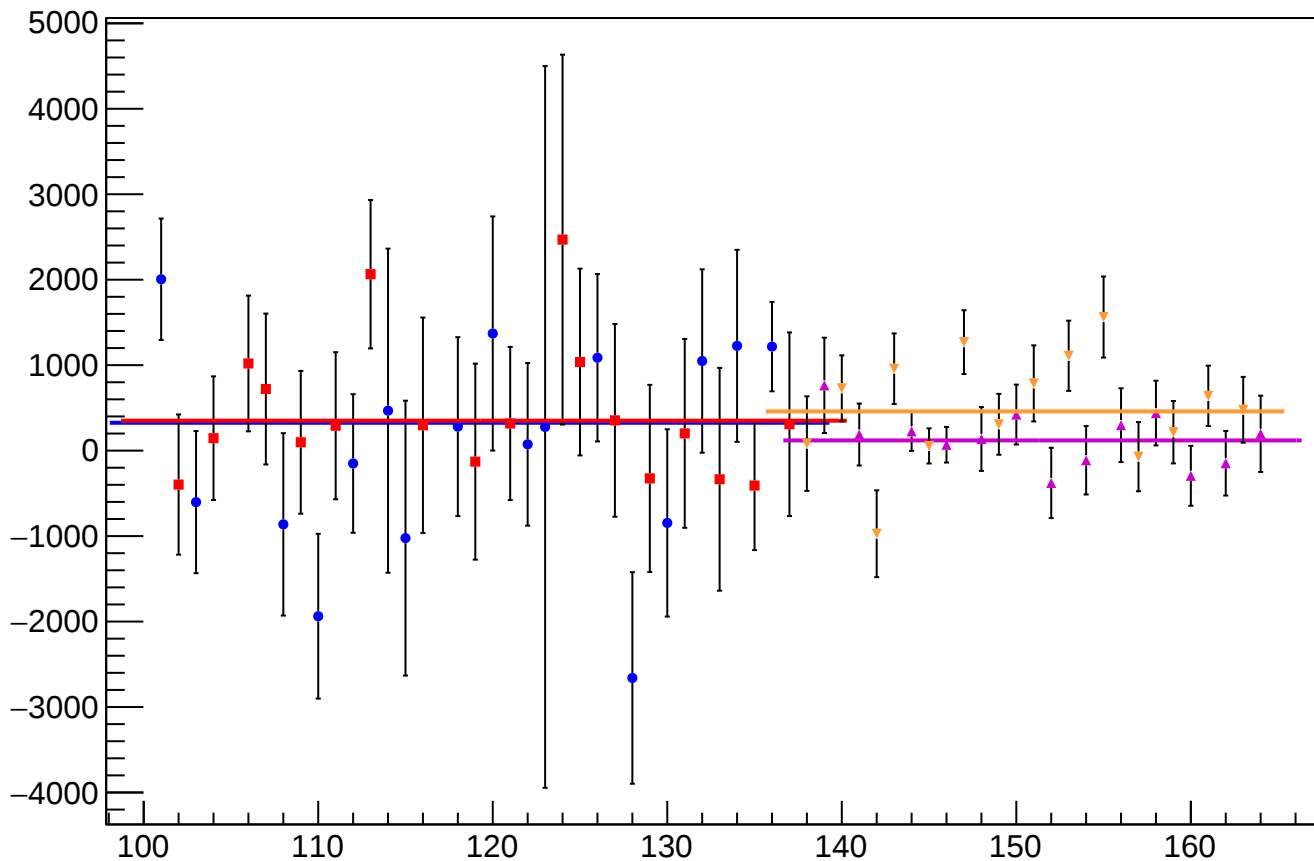
Left In: 295.749 $\pm$ 0.067  $\chi^2$ /NDF:1238493.1/12

+ sign 342.655 $\pm$ 0.063  $\chi^2$ /NDF: 4743569.3/30

All: 340.771 $\pm$ 0.044  $\chi^2$ /NDF: 9247257.0/61

- sign 338.946 $\pm$ 0.062  $\chi^2$ /NDF: 4501914.8/30

# asym\_sam\_37\_dd\_mean vs Slug



Right In: 326.077 $\pm$ 235.599  $\chi^2$ /NDF: 26.9/16

Left Out: 458.935 $\pm$ 98.896  $\chi^2$ /NDF:30.0/13

Right Out: 350.392 $\pm$ 225.254  $\chi^2$ /NDF: 9.0/17

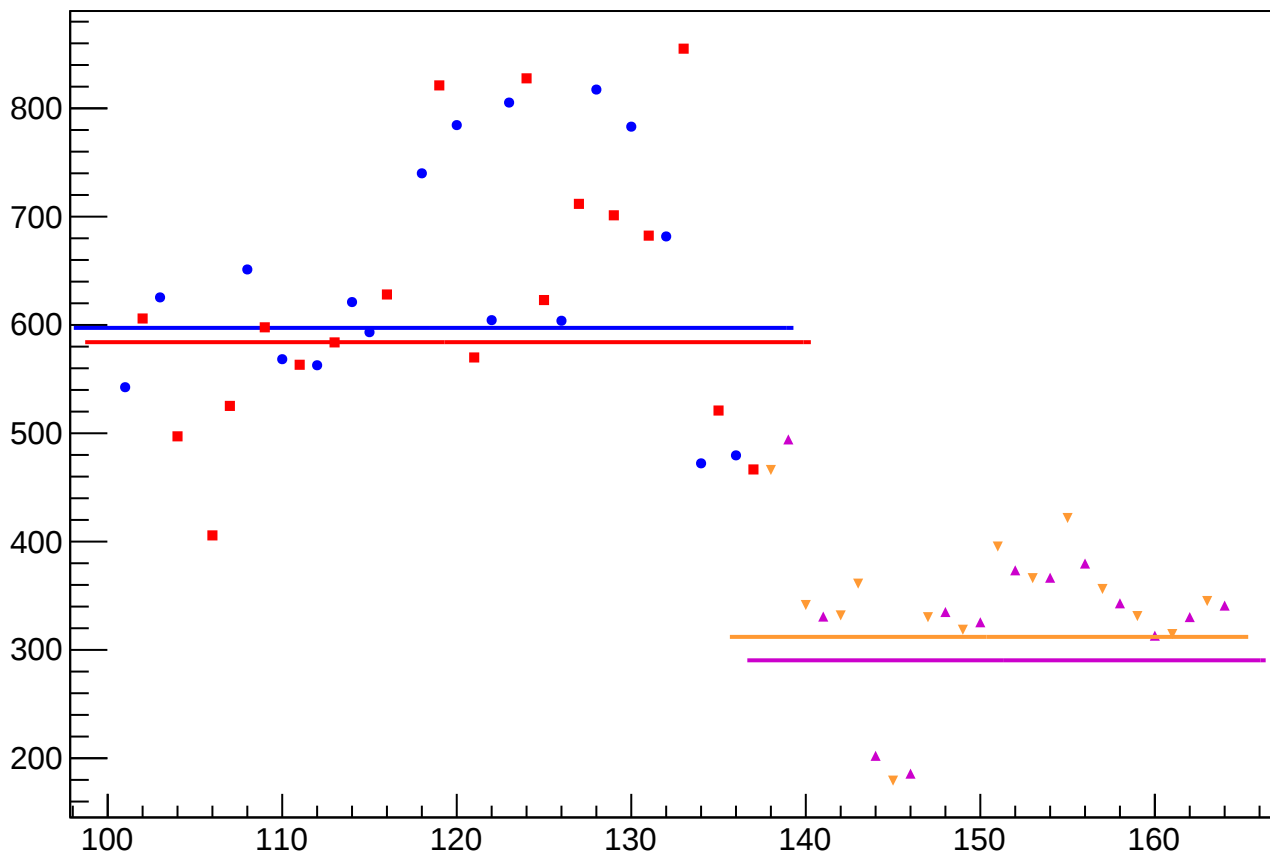
Left In: 119.432 $\pm$ 94.067  $\chi^2$ /NDF:7.0/12

+ sign 439.032 $\pm$ 91.188  $\chi^2$ /NDF: 57.1/30

All: 289.354 $\pm$ 62.872  $\chi^2$ /NDF: 79.2/61

- sign 153.729 $\pm$ 86.802  $\chi^2$ /NDF: 16.9/30

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 312.025 $\pm$ 0.070  $\chi^2$ /NDF: 1292803.6/13

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

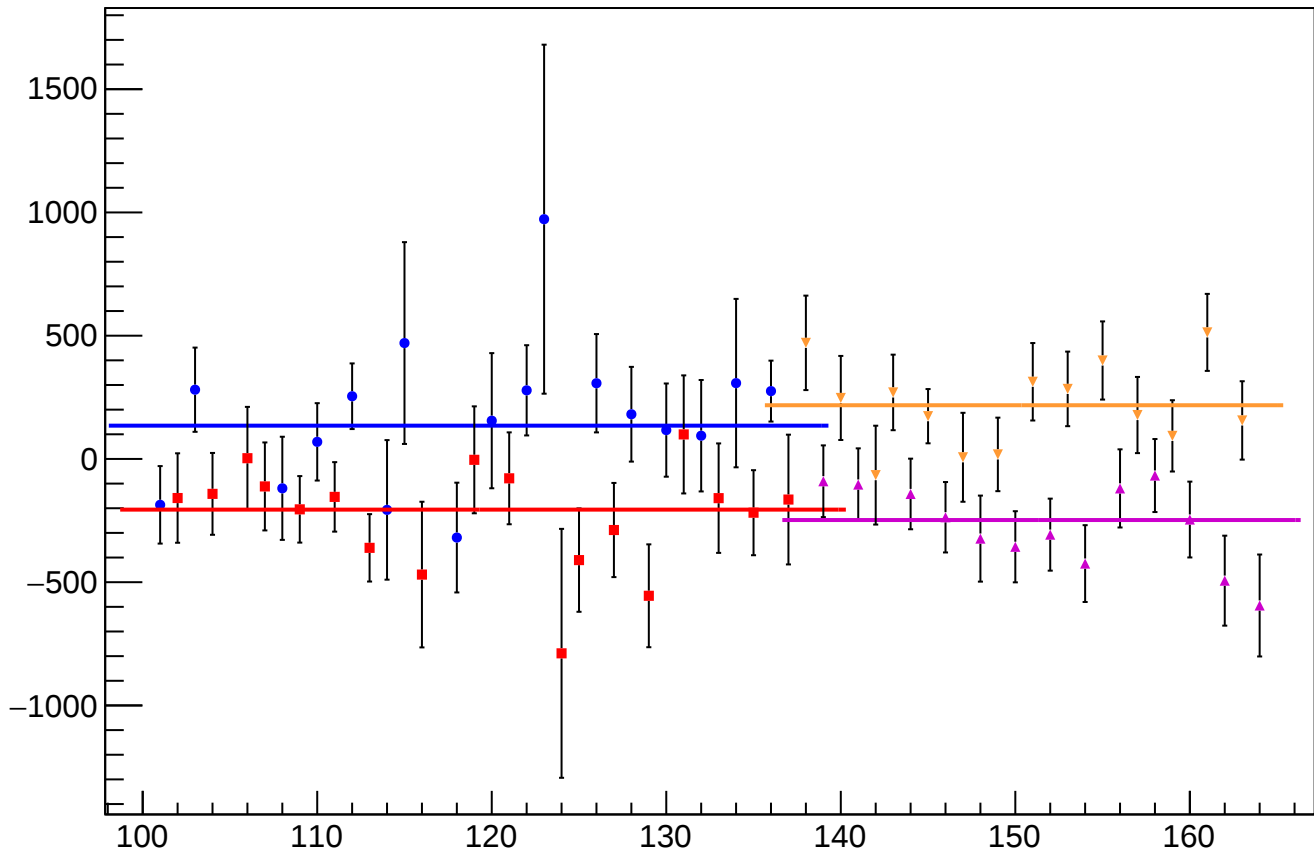
Left In: 290.394 $\pm$ 0.067  $\chi^2$ /NDF: 1478434.8/12

+ sign 354.761 $\pm$ 0.064  $\chi^2$ /NDF: 4149448.8/30

All: 343.874 $\pm$ 0.044  $\chi^2$ /NDF: 9024669.9/61

- sign 334.009 $\pm$ 0.061  $\chi^2$ /NDF: 4820882.8/30

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 135.029 $\pm$ 47.025  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: 217.846 $\pm$ 41.468  $\chi^2/\text{NDF}$ : 13.6/13

Right Out: -205.590 $\pm$ 44.536  $\chi^2/\text{NDF}$ : 12.0/17

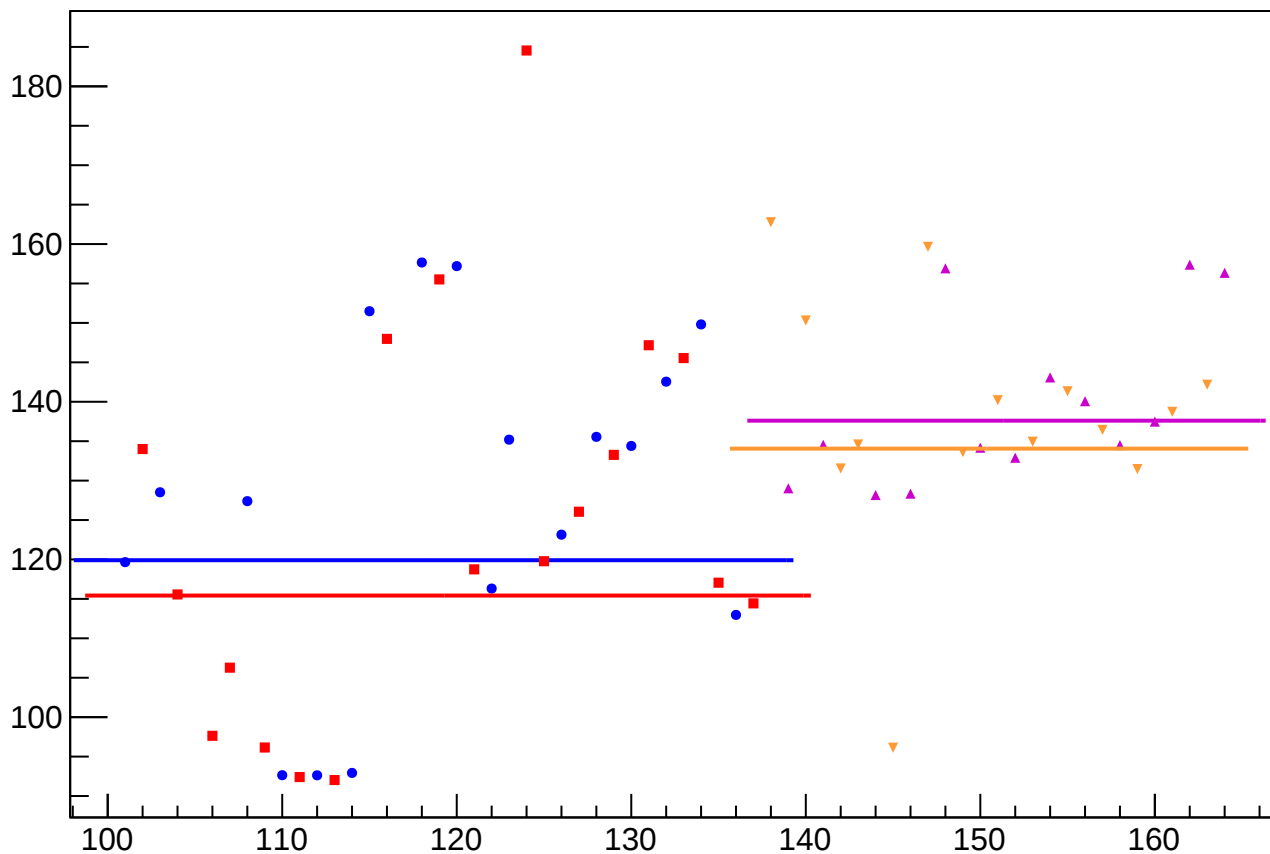
Left In: -247.822 $\pm$ 42.980  $\chi^2/\text{NDF}$ : 11.7/12

+ sign 181.617 $\pm$ 31.102  $\chi^2/\text{NDF}$ : 33.4/30

All: -24.077 $\pm$ 21.930  $\chi^2/\text{NDF}$ : 144.5/61

- sign -227.457 $\pm$ 30.927  $\chi^2/\text{NDF}$ : 24.1/30

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 134.058 $\pm$ 0.029  $\chi^2$ /NDF: 356599.9/13

Right Out: 115.422 $\pm$ 0.031  $\chi^2$ /NDF: 418100.5/17

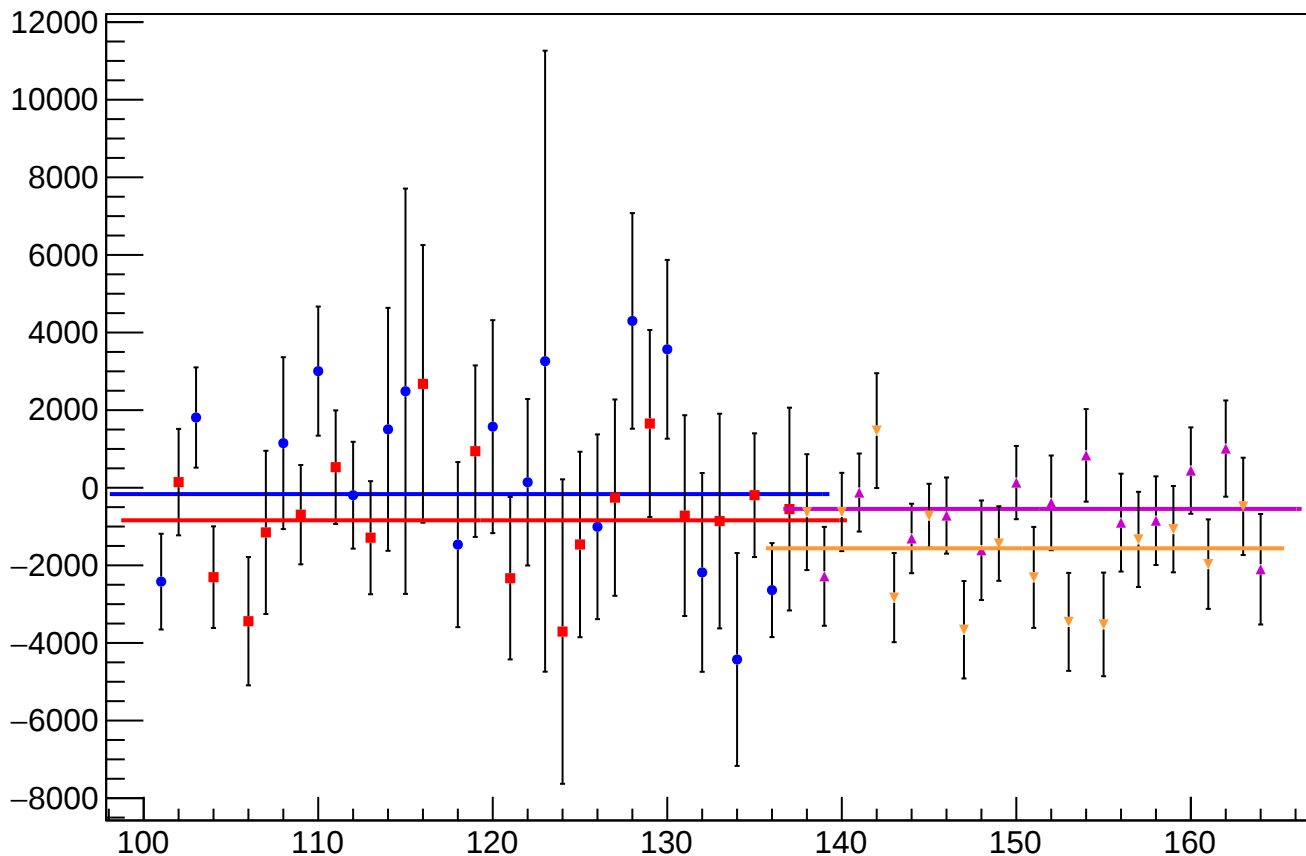
Left In: 137.601 $\pm$ 0.030  $\chi^2$ /NDF: 96371.4/12

+ sign 127.866 $\pm$ 0.022  $\chi^2$ /NDF: 804039.9/30

All: 127.383 $\pm$ 0.016  $\chi^2$ /NDF: 1576300.3/61

- sign 126.906 $\pm$ 0.022  $\chi^2$ /NDF: 771302.6/30

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In: -163.538 $\pm$ 469.592  $\chi^2/\text{NDF}$ : 23.7/16

Left Out: -1559.823 $\pm$ 308.790  $\chi^2/\text{NDF}$ : 16.4/13

Right Out: -839.187 $\pm$ 440.476  $\chi^2/\text{NDF}$ : 9.3/17

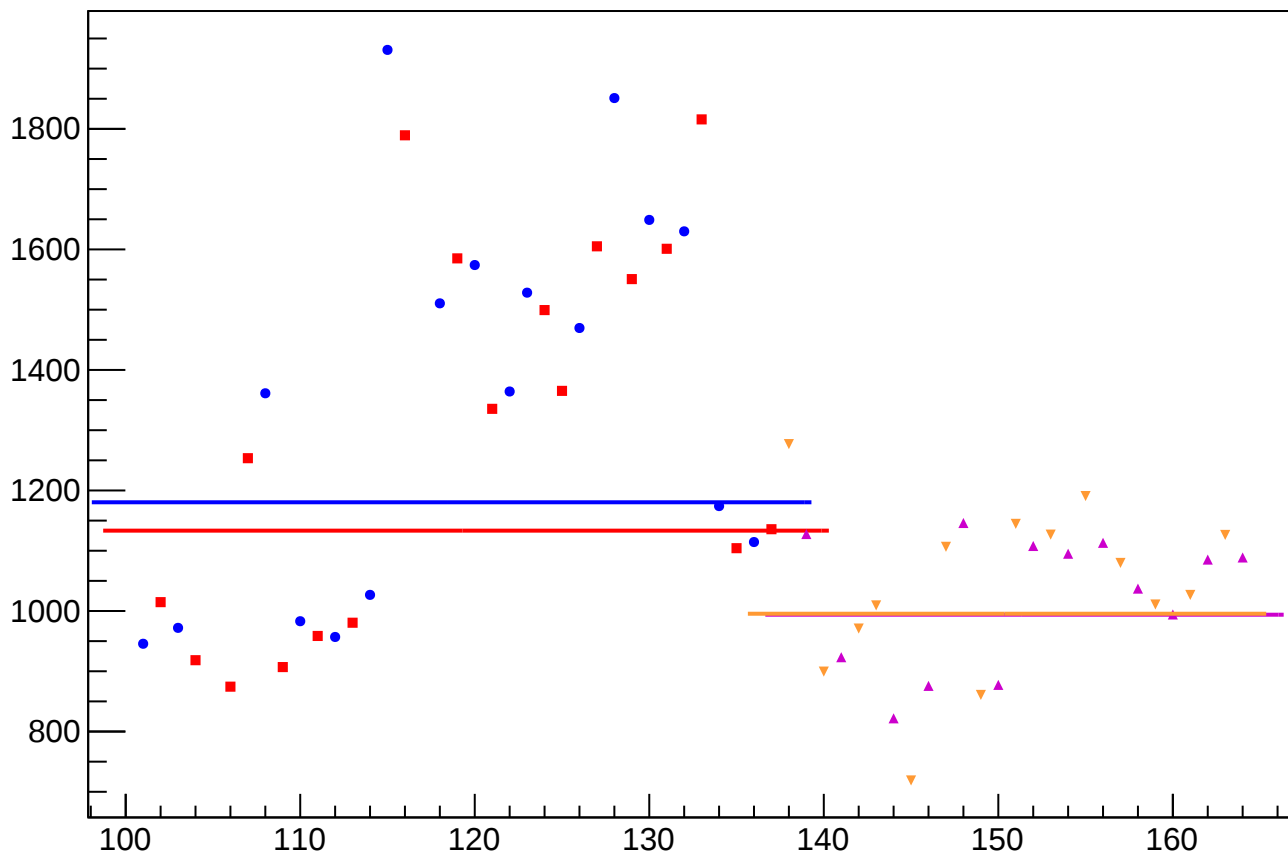
Left In: -546.013 $\pm$ 310.965  $\chi^2/\text{NDF}$ : 9.1/12

+ sign -1138.324 $\pm$ 258.007  $\chi^2/\text{NDF}$ : 46.3/30

All: -887.091 $\pm$ 181.019  $\chi^2/\text{NDF}$ : 66.8/61

- sign -643.529 $\pm$ 254.037  $\chi^2/\text{NDF}$ : 18.6/30

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1180.403 $\pm$ 0.332  $\chi^2$ /NDF: 668845.5/16

Left Out: 995.460 $\pm$ 0.218  $\chi^2$ /NDF: 495974.8/13

Right Out: 1133.347 $\pm$ 0.311  $\chi^2$ /NDF: 760395.8/17

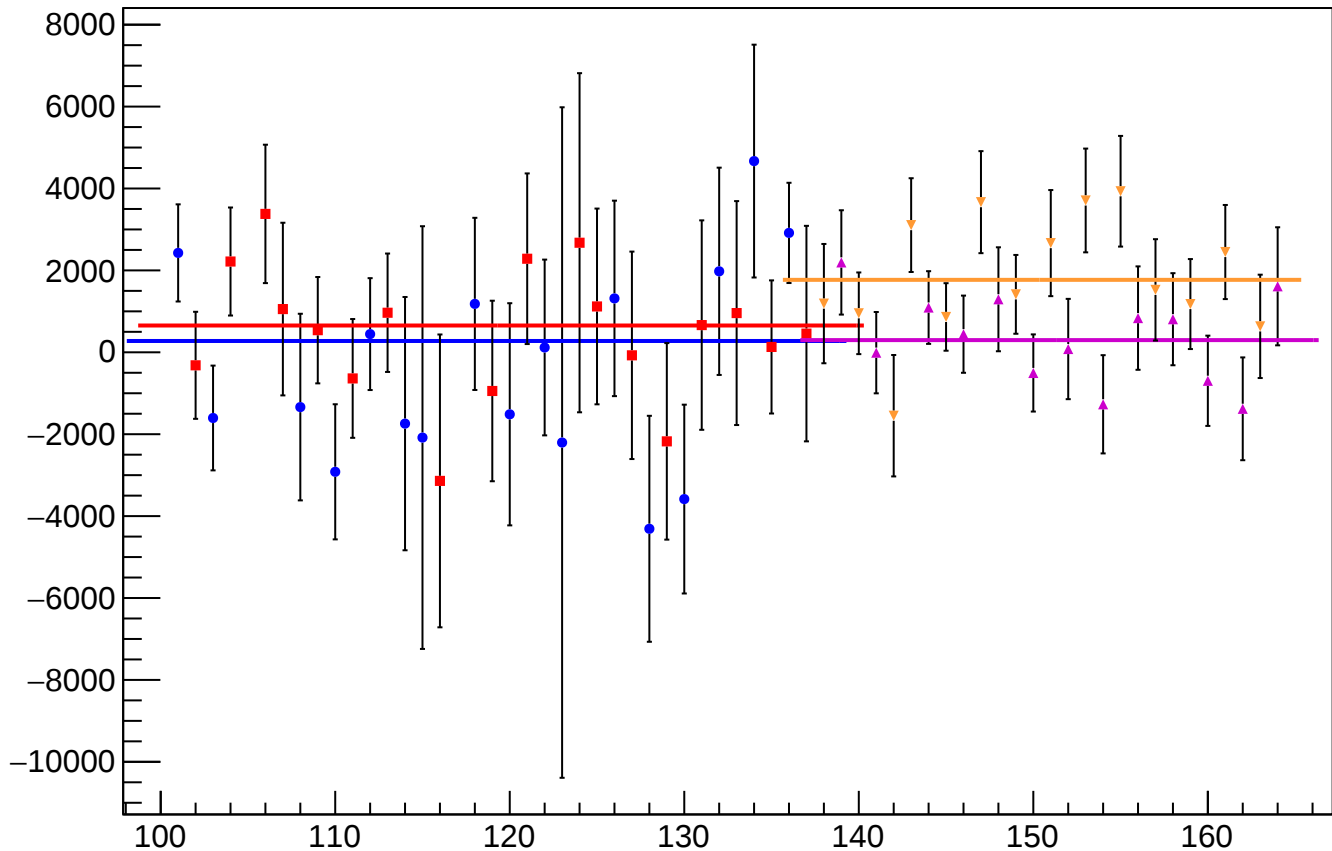
Left In: 993.835 $\pm$ 0.220  $\chi^2$ /NDF: 265682.6/12

+ sign 1051.289 $\pm$ 0.182  $\chi^2$ /NDF: 1381391.0/30

All: 1045.679 $\pm$ 0.128  $\chi^2$ /NDF: 2543230.6/63

- sign 1040.240 $\pm$ 0.180  $\chi^2$ /NDF: 1159977.3/30

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 276.422+/-466.424  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: 1769.322+/-308.253  $\chi^2/\text{NDF}$ : 17.7/13

Right Out: 654.406+/-439.824  $\chi^2/\text{NDF}$ : 9.6/17

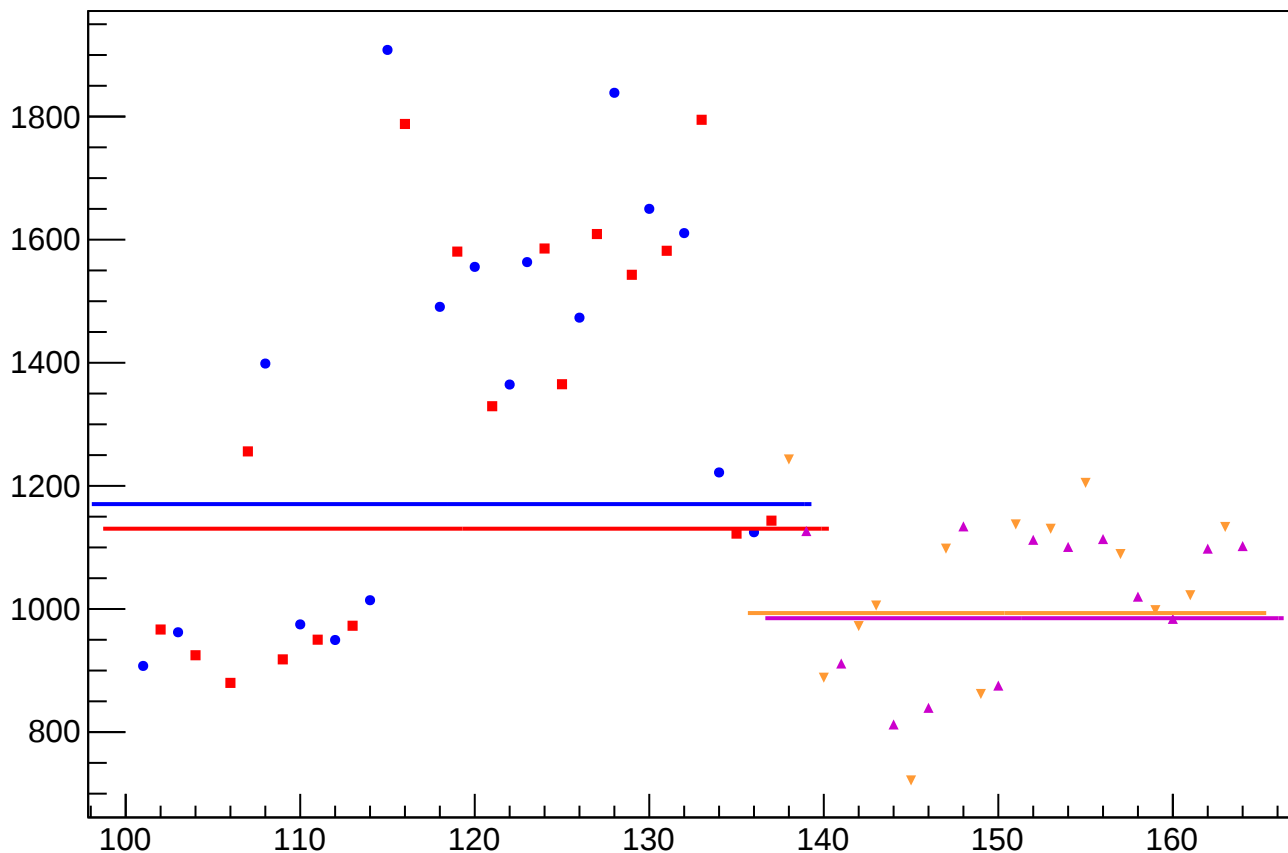
Left In: 297.847+/-308.720  $\chi^2/\text{NDF}$ : 10.0/12

+ sign 1315.490+/-257.166  $\chi^2/\text{NDF}$ : 49.2/30

All: 857.604+/-180.239  $\chi^2/\text{NDF}$ : 75.5/61

- sign 415.535+/-252.685  $\chi^2/\text{NDF}$ : 20.1/30

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1170.404+/-0.330  $\chi^2/\text{NDF}$ : 705486.8/16

Left Out: 993.402+/-0.218  $\chi^2/\text{NDF}$ : 485513.9/13

Right Out: 1130.456+/-0.311  $\chi^2/\text{NDF}$ : 763027.2/17

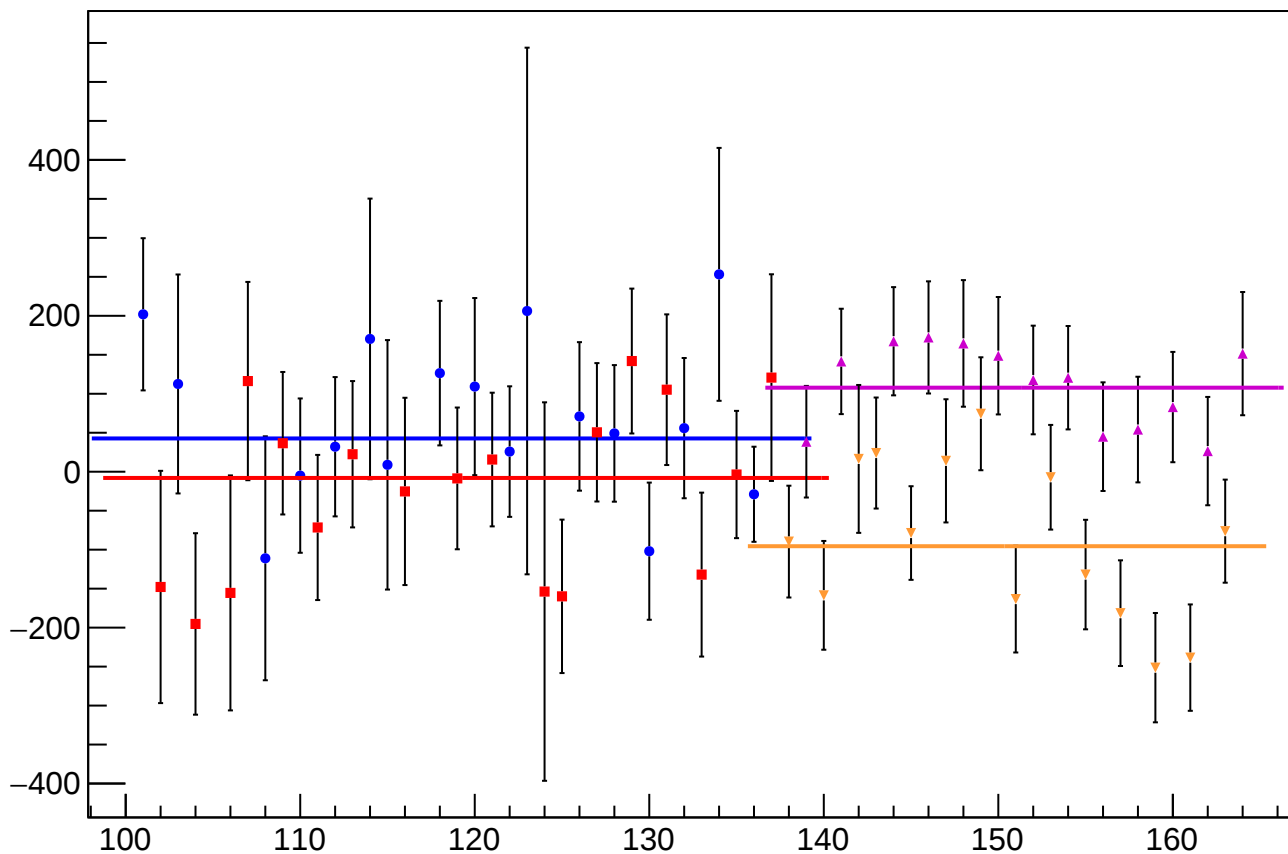
Left In: 985.046+/-0.218  $\chi^2/\text{NDF}$ : 306093.7/12

+ sign 1047.209+/-0.182  $\chi^2/\text{NDF}$ : 1391466.4/30

All: 1040.001+/-0.127  $\chi^2/\text{NDF}$ : 2610128.4/63

- sign 1033.041+/-0.179  $\chi^2/\text{NDF}$ : 1215573.3/30

# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 42.674 +/- 24.701  $\chi^2/\text{NDF}$ : 12.0/16

Left Out: -95.567 +/- 18.771  $\chi^2/\text{NDF}$ : 26.5/13

Right Out: -7.995 +/- 24.492  $\chi^2/\text{NDF}$ : 15.8/17

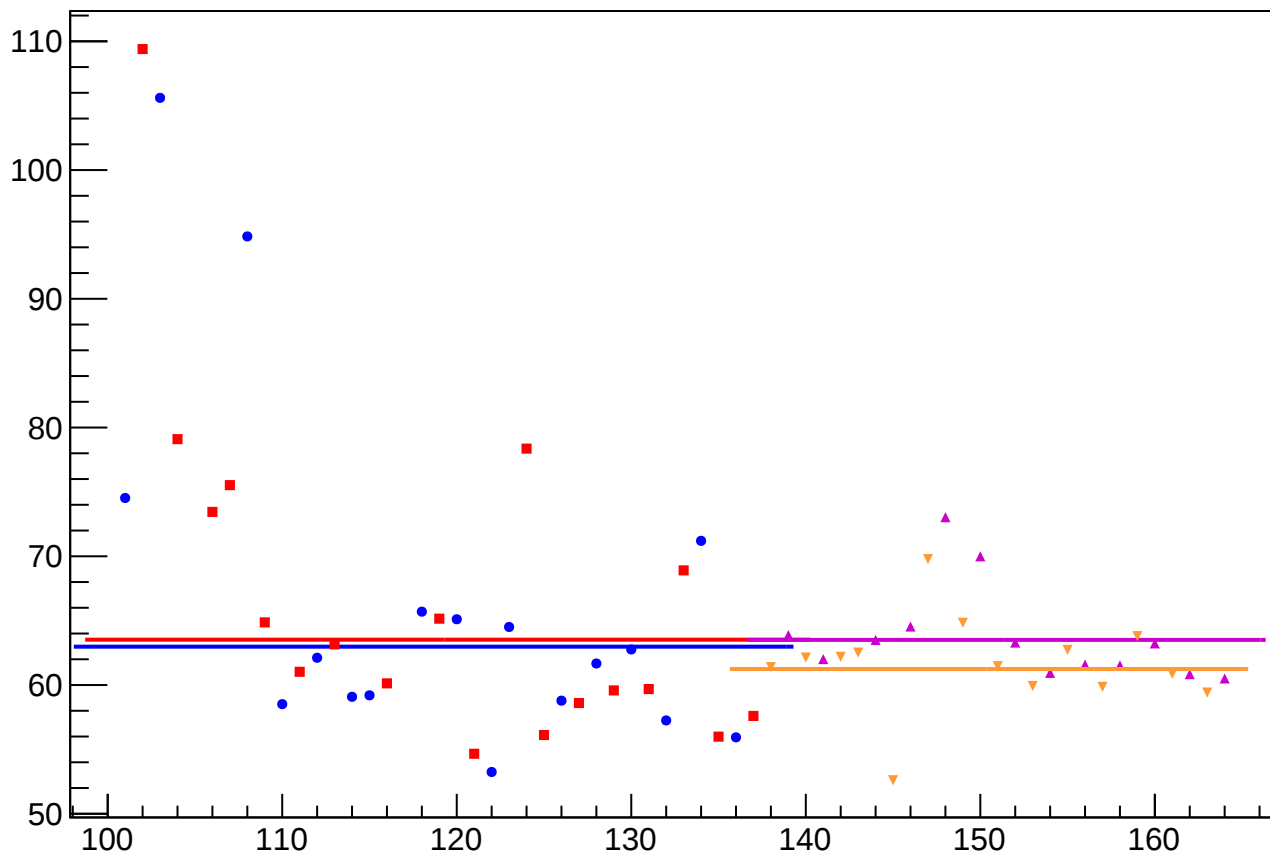
Left In: 107.793 +/- 19.739  $\chi^2/\text{NDF}$ : 6.8/12

+ sign -44.961 +/- 14.945  $\chi^2/\text{NDF}$ : 58.4/30

All: 7.122 +/- 10.714  $\chi^2/\text{NDF}$ : 119.5/61

- sign 62.201 +/- 15.369  $\chi^2/\text{NDF}$ : 36.1/30

# 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:  $61.244 \pm 0.013$   $\chi^2/\text{NDF}$ : 77636.2/13

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}$ : 335430.9/17

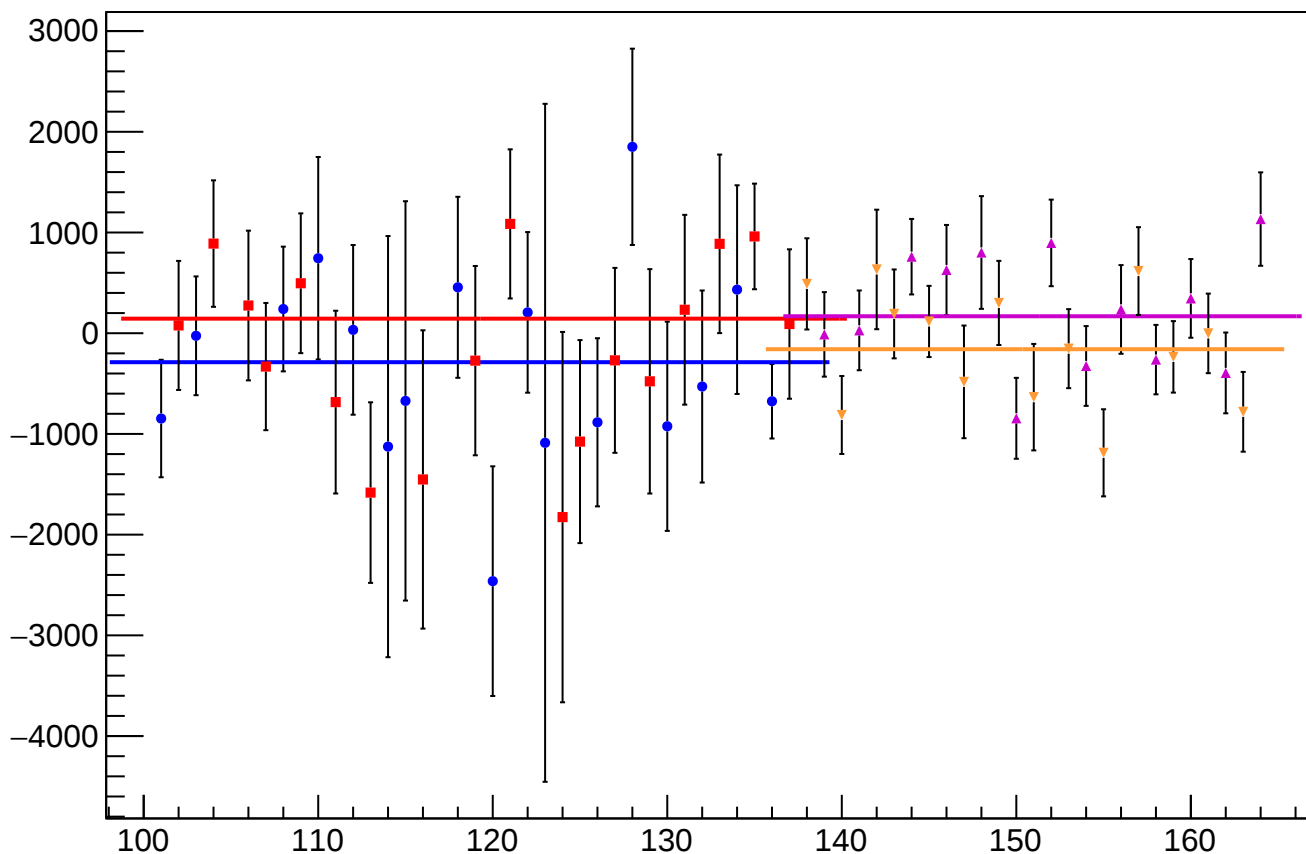
Left In:  $63.505 \pm 0.014$   $\chi^2/\text{NDF}$ : 55908.1/12

+ sign  $61.880 \pm 0.011$   $\chi^2/\text{NDF}$ : 459160.6/30

All:  $62.673 \pm 0.008$   $\chi^2/\text{NDF}$ : 862095.8/61

- sign  $63.512 \pm 0.011$   $\chi^2/\text{NDF}$ : 391339.6/30

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In: -287.682 $\pm$ 189.888  $\chi^2$ /NDF: 15.4/16

Left Out: -158.666 $\pm$ 113.318  $\chi^2$ /NDF: 21.8/13

Right Out: 144.624 $\pm$ 187.777  $\chi^2$ /NDF: 16.1/17

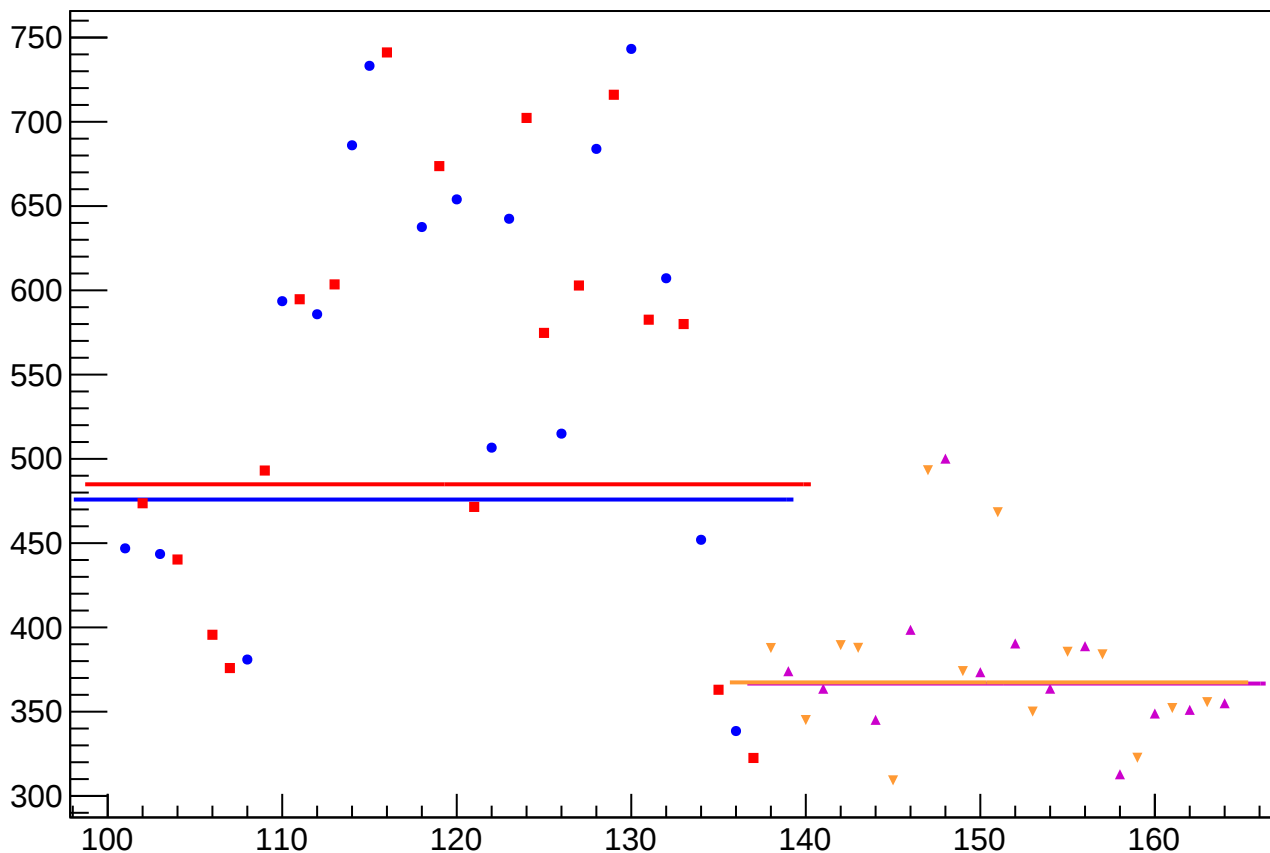
Left In: 168.452 $\pm$ 114.451  $\chi^2$ /NDF: 24.0/12

+ sign -192.546 $\pm$ 97.308  $\chi^2$ /NDF: 37.5/30

All: -16.039 $\pm$ 68.956  $\chi^2$ /NDF: 84.2/61

- sign 161.998 $\pm$ 97.729  $\chi^2$ /NDF: 40.1/30

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 475.871+/-0.134  $\chi^2/\text{NDF}$ : 837808.5/16

Left Out: 367.370+/-0.080  $\chi^2/\text{NDF}$ : 293479.9/13

Right Out: 484.914+/-0.133  $\chi^2/\text{NDF}$ : 716315.8/17

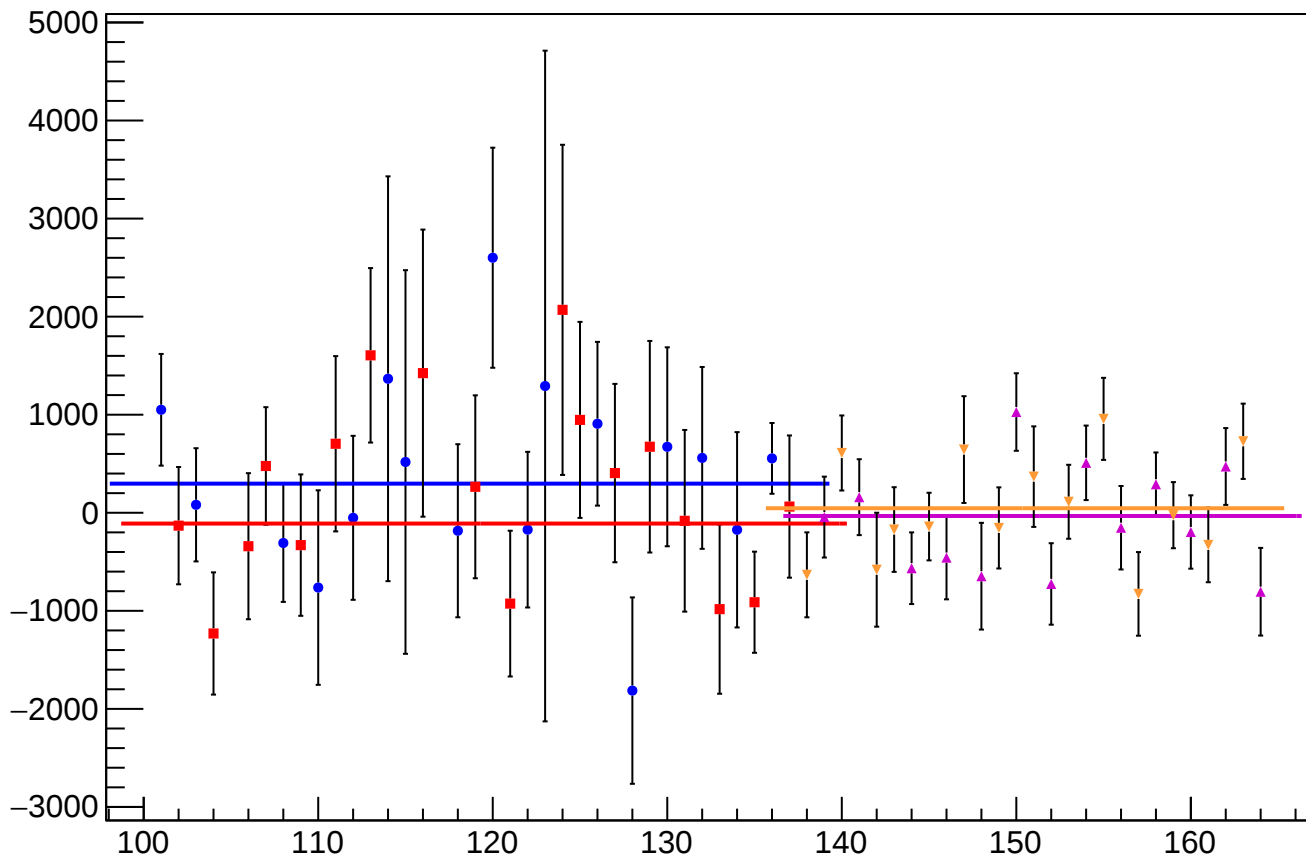
Left In: 366.684+/-0.081  $\chi^2/\text{NDF}$ : 200289.4/12

+ sign 395.863+/-0.069  $\chi^2/\text{NDF}$ : 1612795.2/30

All: 397.280+/-0.049  $\chi^2/\text{NDF}$ : 3108355.0/61

- sign 398.709+/-0.069  $\chi^2/\text{NDF}$ : 1494707.9/30

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 296.984 $\pm$ 185.975  $\chi^2$ /NDF: 15.9/16

Left Out: 46.153 $\pm$ 109.994  $\chi^2$ /NDF:21.3/13

Right Out: -110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

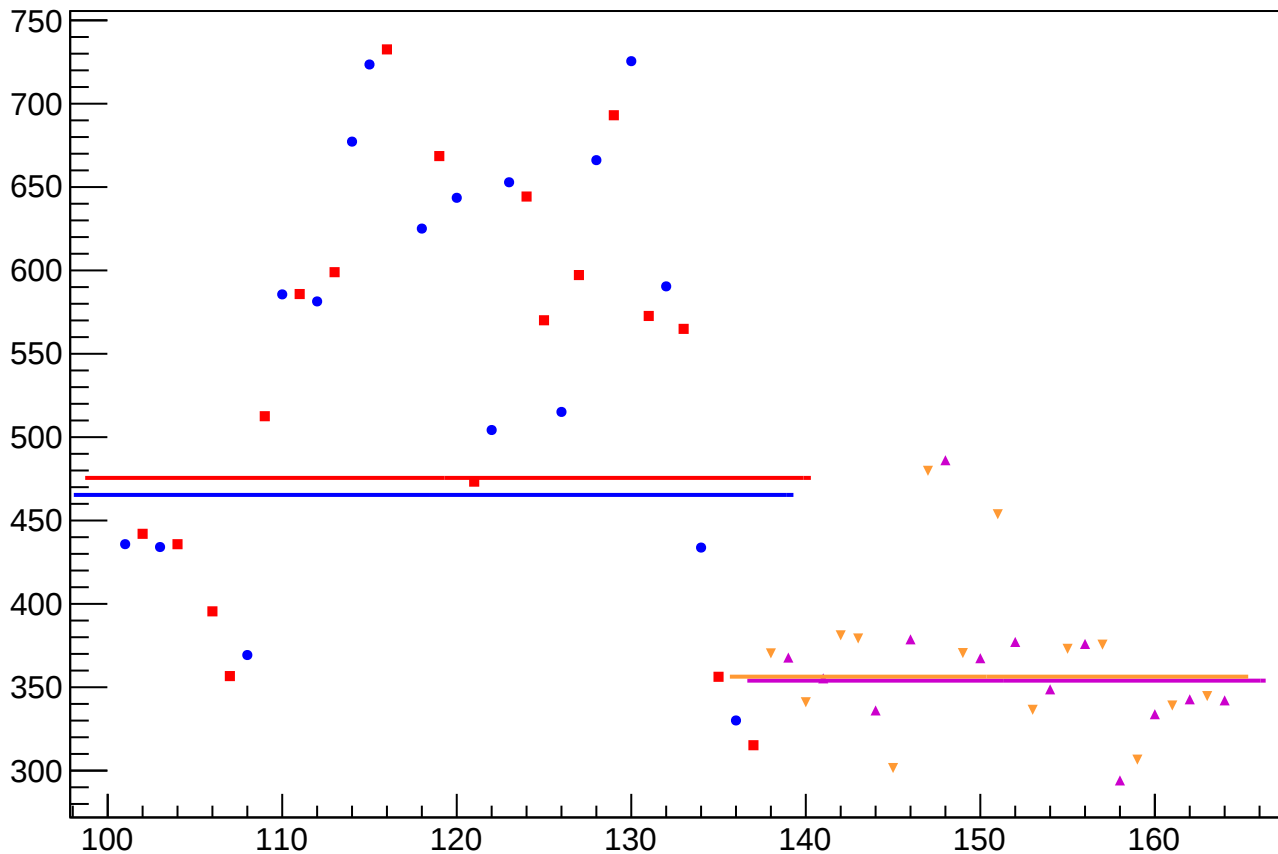
Left In: -32.769 $\pm$ 110.581  $\chi^2$ /NDF:22.6/12

+ sign 111.157 $\pm$ 94.675  $\chi^2$ /NDF: 38.5/30

All: 29.101 $\pm$ 67.002  $\chi^2$ /NDF: 81.3/61

- sign -53.234 $\pm$ 94.836  $\chi^2$ /NDF: 41.2/30

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 465.356+/-0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 356.347+/-0.078  $\chi^2/\text{NDF}$ : 304914.1/13

Right Out: 475.559+/-0.130  $\chi^2/\text{NDF}$ : 740849.9/17

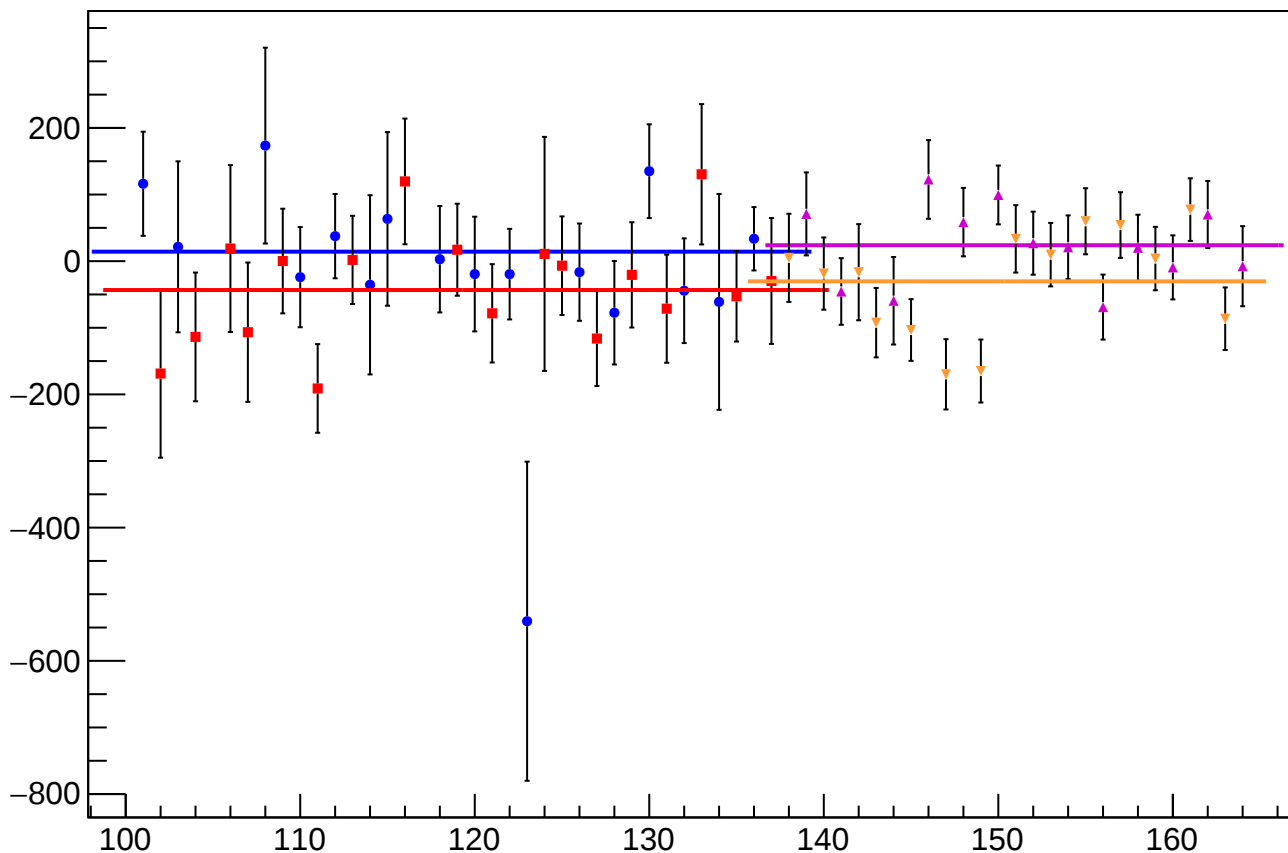
Left In: 353.960+/-0.078  $\chi^2/\text{NDF}$ : 223180.8/12

+ sign 384.597+/-0.067  $\chi^2/\text{NDF}$ : 1674393.4/30

All: 385.359+/-0.047  $\chi^2/\text{NDF}$ : 3278347.1/61

- sign 386.123+/-0.067  $\chi^2/\text{NDF}$ : 1603694.4/30

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 14.253+/-19.867  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -30.313+/-13.613  $\chi^2/\text{NDF}$ : 35.1/13

Right Out: -43.336+/-19.650  $\chi^2/\text{NDF}$ : 16.2/17

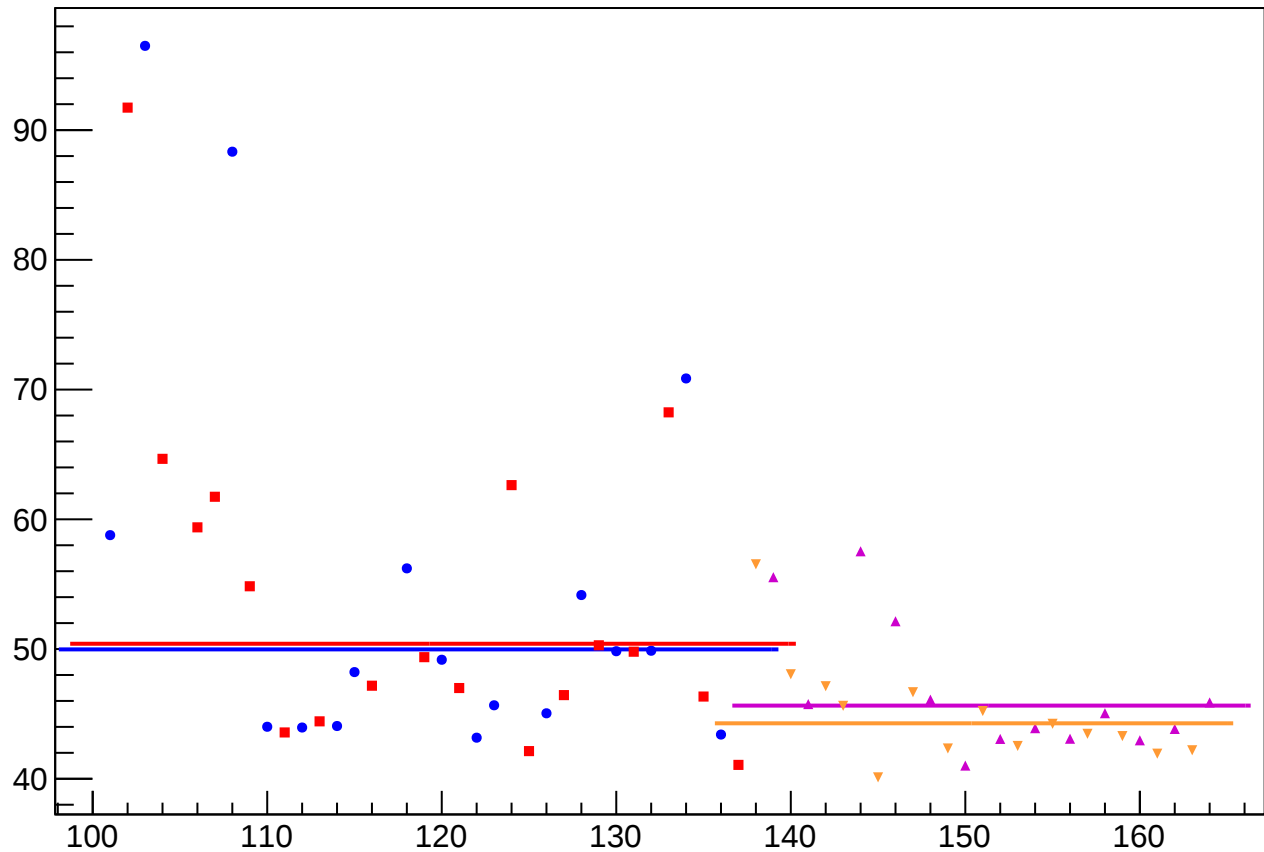
Left In: 23.889+/-14.310  $\chi^2/\text{NDF}$ : 15.5/12

+ sign -16.074+/-11.229  $\chi^2/\text{NDF}$ : 53.3/30

All: -7.988+/-8.057  $\chi^2/\text{NDF}$ : 93.7/61

- sign 0.592+/-11.568  $\chi^2/\text{NDF}$ : 39.3/30

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 49.973 $\pm$ 0.014  $\chi^2$ /NDF: 578750.7/16

Left Out: 44.275 $\pm$ 0.010  $\chi^2$ /NDF: 120159.2/13

Right Out: 50.408 $\pm$ 0.014  $\chi^2$ /NDF: 467481.4/17

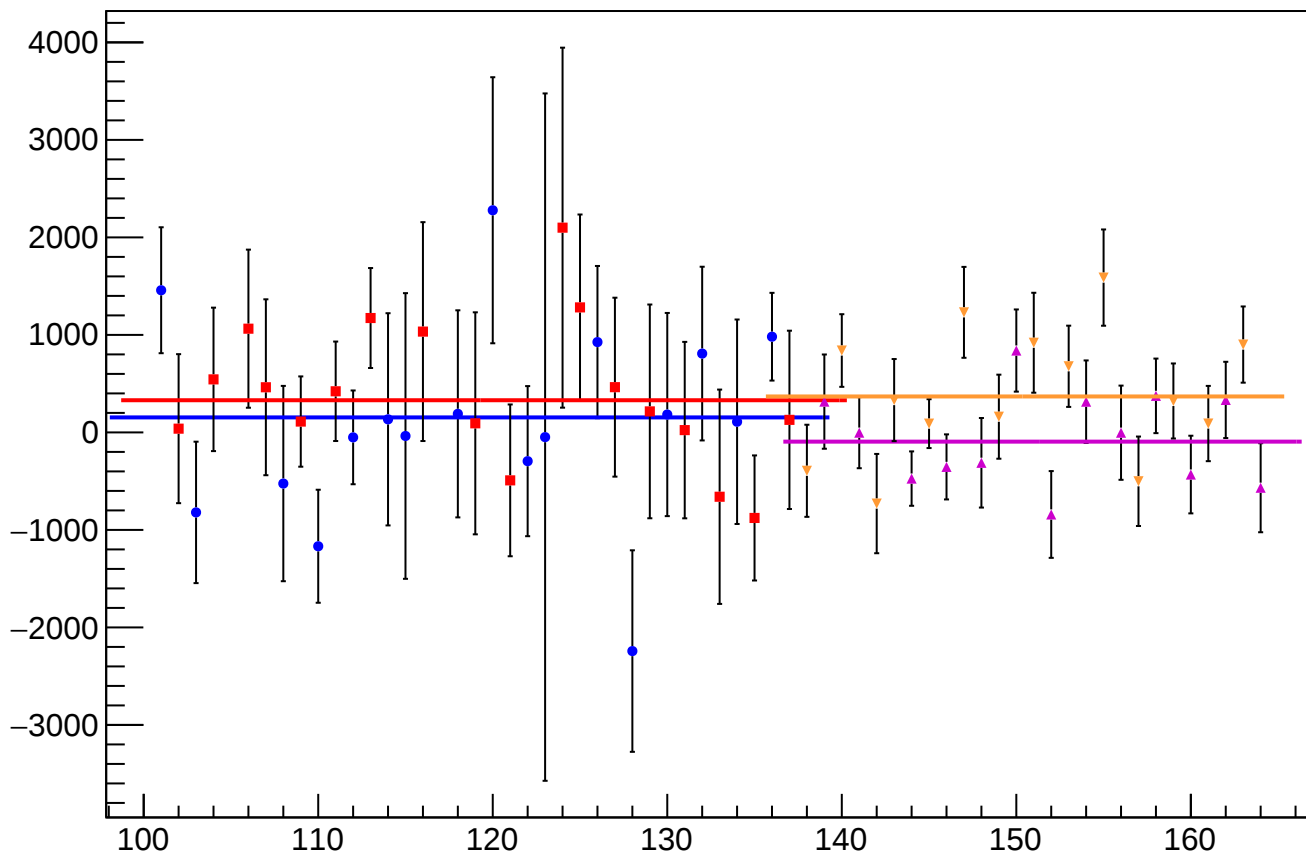
Left In: 45.641 $\pm$ 0.010  $\chi^2$ /NDF: 185523.7/12

+ sign 46.096 $\pm$ 0.008  $\chi^2$ /NDF: 810865.8/30

All: 46.676 $\pm$ 0.006  $\chi^2$ /NDF: 1551825.0/61

- sign 47.293 $\pm$ 0.008  $\chi^2$ /NDF: 729931.2/30

# 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: 368.699 $\pm$ 108.113  $\chi^2/\text{NDF}$ : 27.6/13

Right Out: 329.952 $\pm$ 179.795  $\chi^2/\text{NDF}$ : 12.1/17

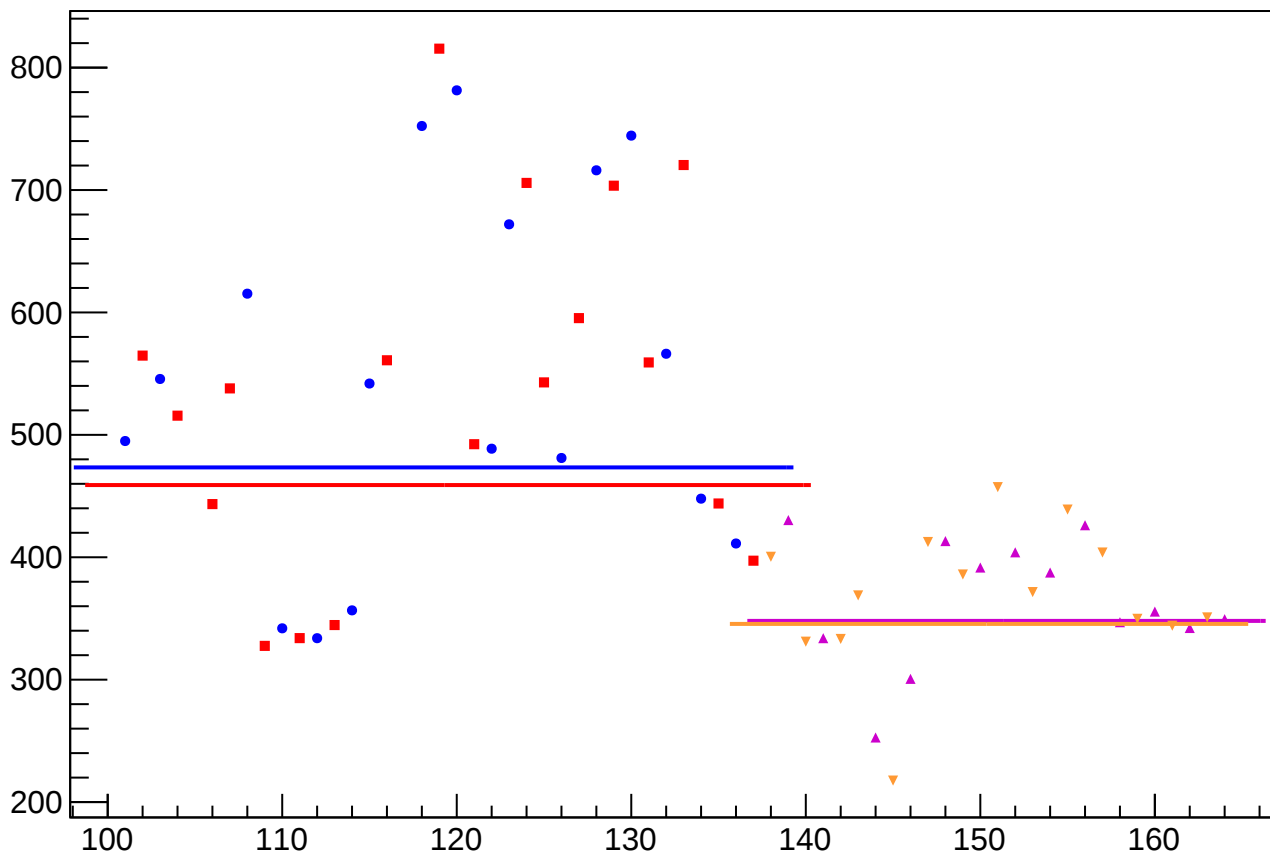
Left In: -94.627 $\pm$ 109.489  $\chi^2/\text{NDF}$ : 16.7/12

+ sign 316.132 $\pm$ 93.961  $\chi^2/\text{NDF}$ : 53.3/30

All: 167.475 $\pm$ 66.282  $\chi^2/\text{NDF}$ : 91.1/61

- sign 20.230 $\pm$ 93.514  $\chi^2/\text{NDF}$ : 32.8/30

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 473.406 $\pm$ 0.134  $\chi^2$ /NDF: 914927.8/16

Left Out: 345.551 $\pm$ 0.076  $\chi^2$ /NDF:825670.5/13

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

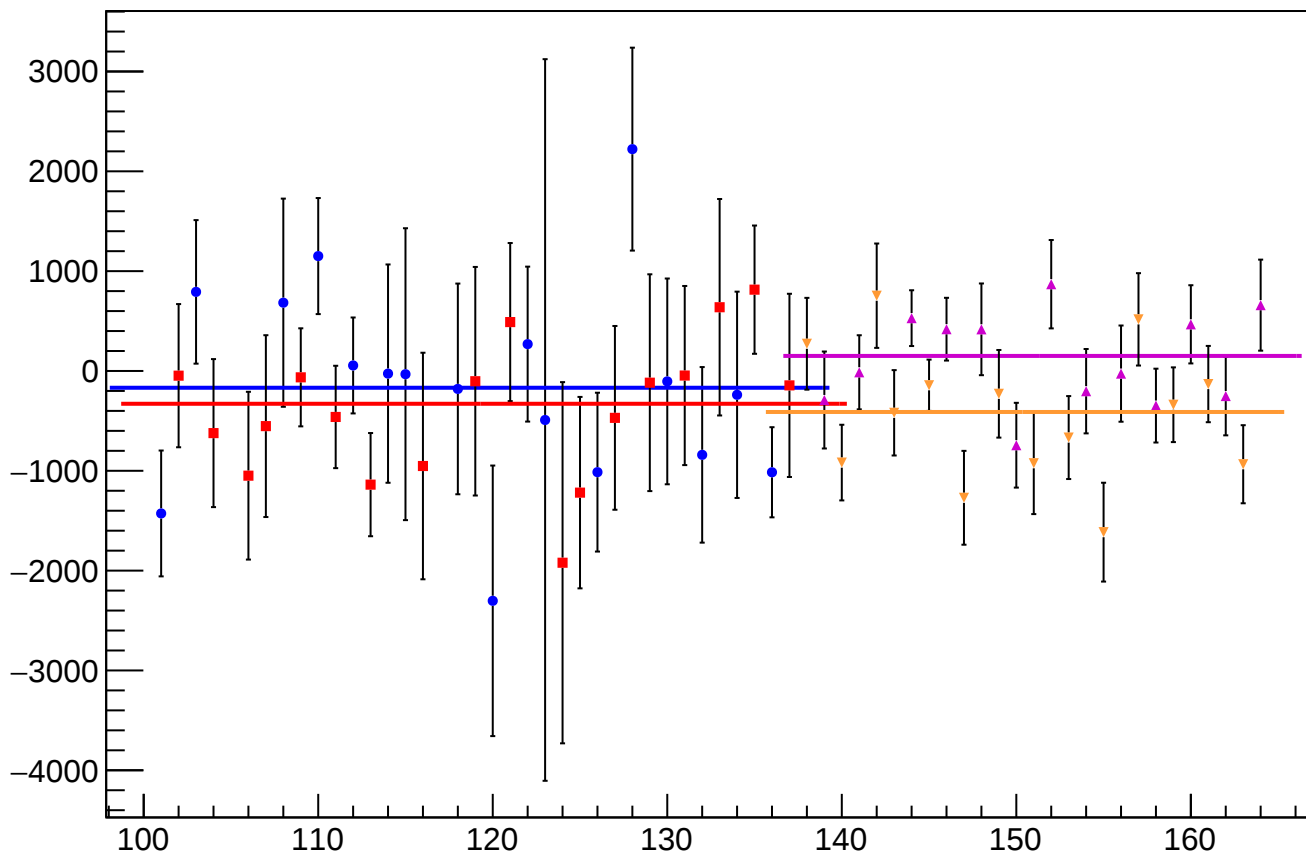
Left In: 348.016 $\pm$ 0.077  $\chi^2$ /NDF:499036.1/12

+ sign 376.832 $\pm$ 0.066  $\chi^2$ /NDF: 2424940.1/30

All: 377.437 $\pm$ 0.047  $\chi^2$ /NDF: 4486198.3/61

- sign 378.036 $\pm$ 0.066  $\chi^2$ /NDF: 2061093.1/30

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $-168.049 \pm 189.758$   $\chi^2/\text{NDF}$ : 25.4/16

Left Out:  $-410.774 \pm 108.708$   $\chi^2/\text{NDF}$ : 27.3/13

Right Out:  $-328.598 \pm 181.559$   $\chi^2/\text{NDF}$ : 11.1/17

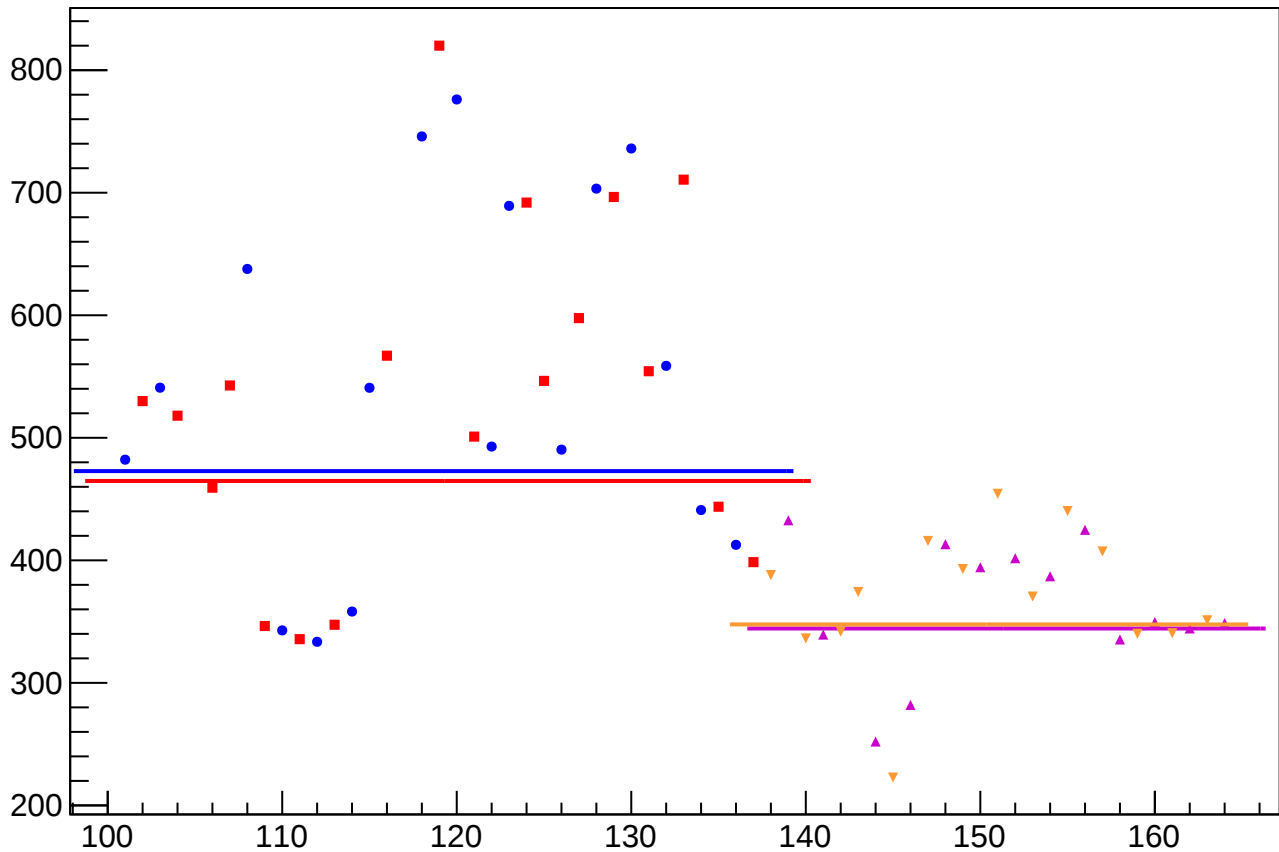
Left In:  $150.737 \pm 108.585$   $\chi^2/\text{NDF}$ : 16.6/12

+ sign  $-350.798 \pm 94.326$   $\chi^2/\text{NDF}$ : 53.9/30

All:  $-160.899 \pm 66.293$   $\chi^2/\text{NDF}$ : 94.8/61

- sign  $24.454 \pm 93.190$   $\chi^2/\text{NDF}$ : 32.8/30

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 347.697 $\pm$ 0.077  $\chi^2$ /NDF: 760080.6/13

Right Out: 464.761 $\pm$ 0.128  $\chi^2$ /NDF: 914781.1/17

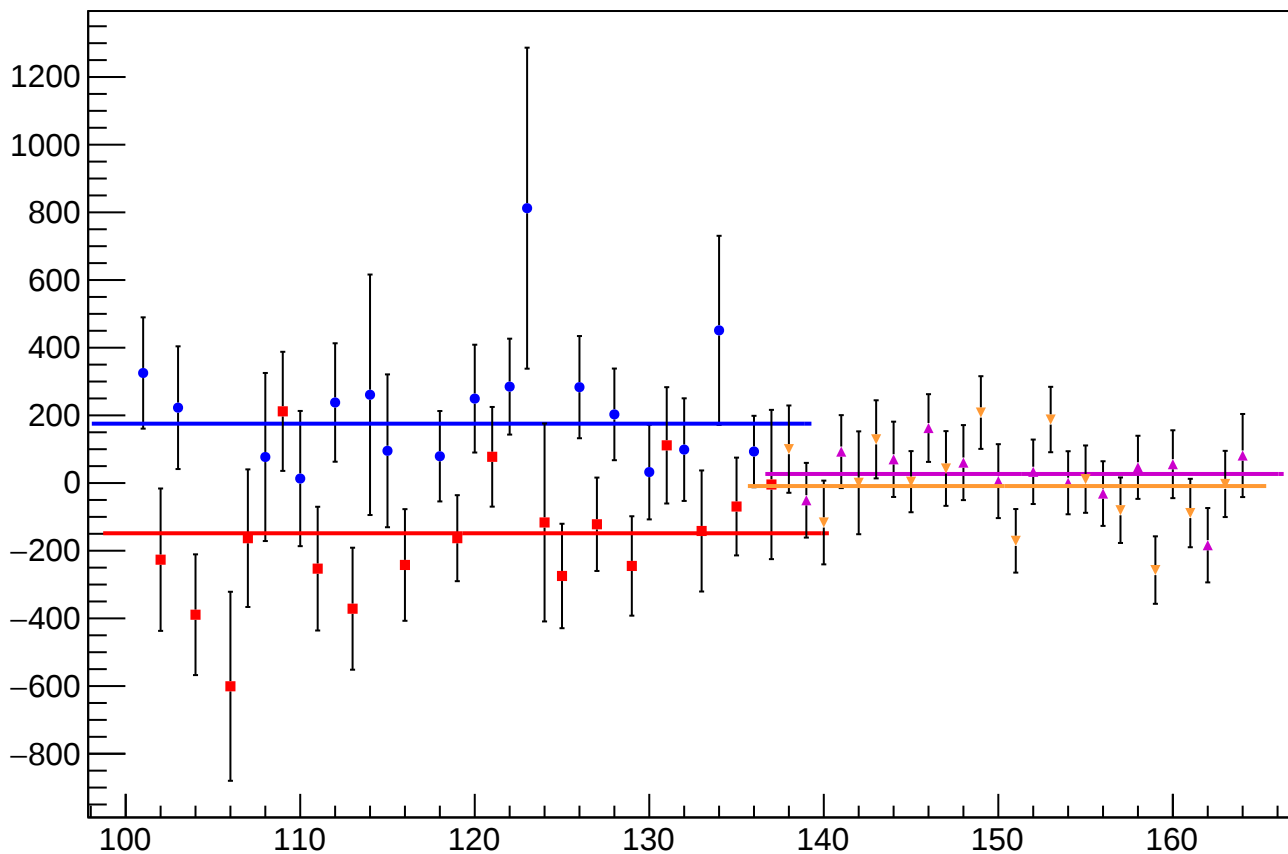
Left In: 344.357 $\pm$ 0.077  $\chi^2$ /NDF: 547198.6/12

+ sign 378.614 $\pm$ 0.067  $\chi^2$ /NDF: 2311157.0/30

All: 377.330 $\pm$ 0.047  $\chi^2$ /NDF: 4421714.0/61

- sign 376.078 $\pm$ 0.066  $\chi^2$ /NDF: 2109825.4/30

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 175.468 $\pm$ 40.358  $\chi^2$ /NDF: 8.6/16

Left Out: -8.884 $\pm$ 28.107  $\chi^2$ /NDF:21.8/13

Right Out: -148.445 $\pm$ 40.332  $\chi^2$ /NDF: 17.5/17

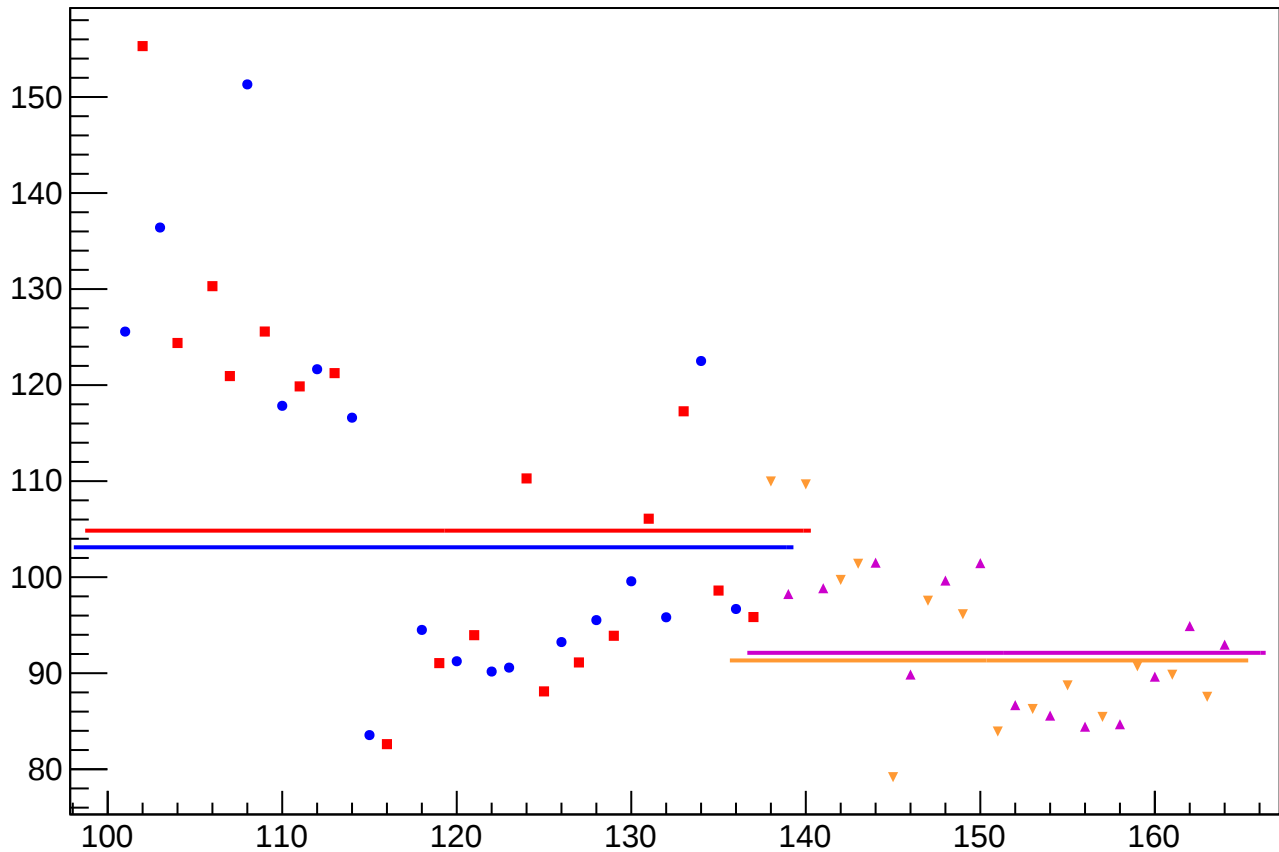
Left In: 26.821 $\pm$ 28.720  $\chi^2$ /NDF:7.4/12

+ sign 51.326 $\pm$ 23.065  $\chi^2$ /NDF: 44.4/30

All: 10.181 $\pm$ 16.425  $\chi^2$ /NDF: 88.3/61

- sign -32.149 $\pm$ 23.395  $\chi^2$ /NDF: 37.5/30

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 91.328 $\pm$ 0.020  $\chi^2$ /NDF:183634.1/13

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

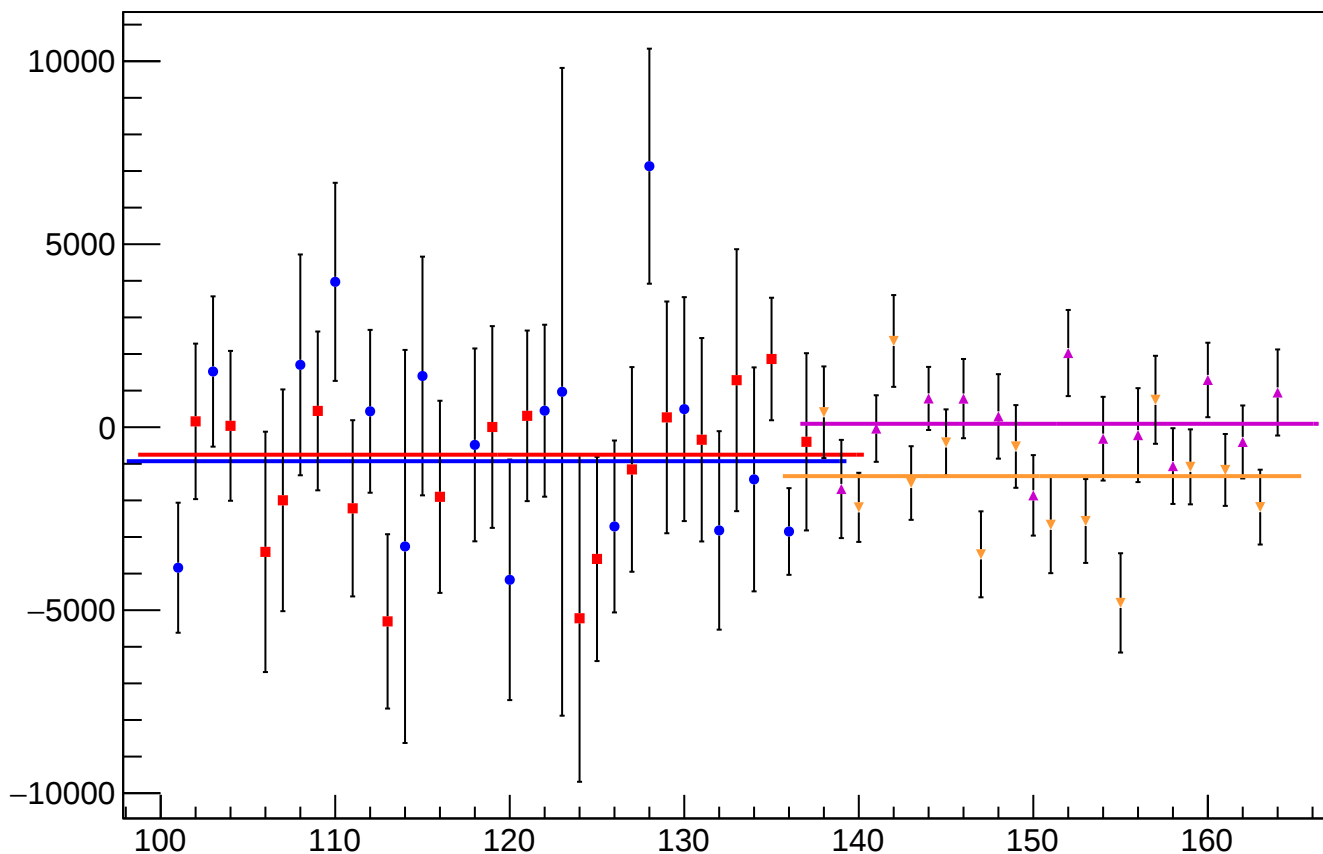
Left In: 92.122 $\pm$ 0.020  $\chi^2$ /NDF:97707.2/12

+ sign 95.177 $\pm$ 0.016  $\chi^2$ /NDF: 604891.5/30

All: 95.781 $\pm$ 0.012  $\chi^2$ /NDF: 1206104.6/61

- sign 96.402 $\pm$ 0.017  $\chi^2$ /NDF: 598430.6/30

# 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:  $-1336.680 \pm 293.235$   $\chi^2/\text{NDF}$ : 28.8/13

Right Out:  $-751.262 \pm 594.960$   $\chi^2/\text{NDF}$ : 10.9/17

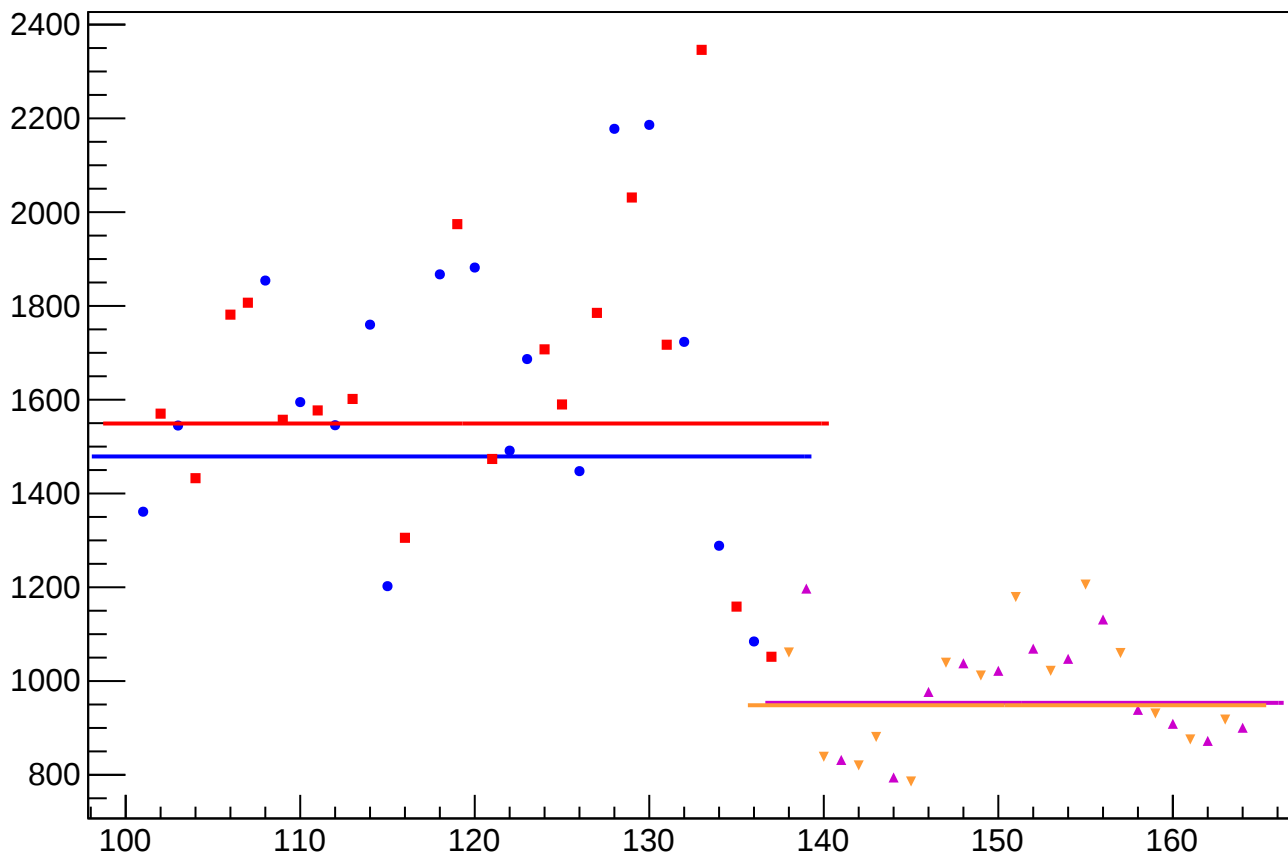
Left In:  $93.102 \pm 297.959$   $\chi^2/\text{NDF}$ : 12.3/12

+ sign  $-1255.241 \pm 262.322$   $\chi^2/\text{NDF}$ : 50.0/30

All:  $-674.855 \pm 186.920$   $\chi^2/\text{NDF}$ : 84.8/61

- sign  $-76.206 \pm 266.417$   $\chi^2/\text{NDF}$ : 24.9/30

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1478.991+/-0.415  $\chi^2$ /NDF: 589620.8/16

Left Out: 948.410+/-0.207  $\chi^2$ /NDF:327794.1/13

Right Out: 1549.266+/-0.421  $\chi^2$ /NDF: 462557.8/17

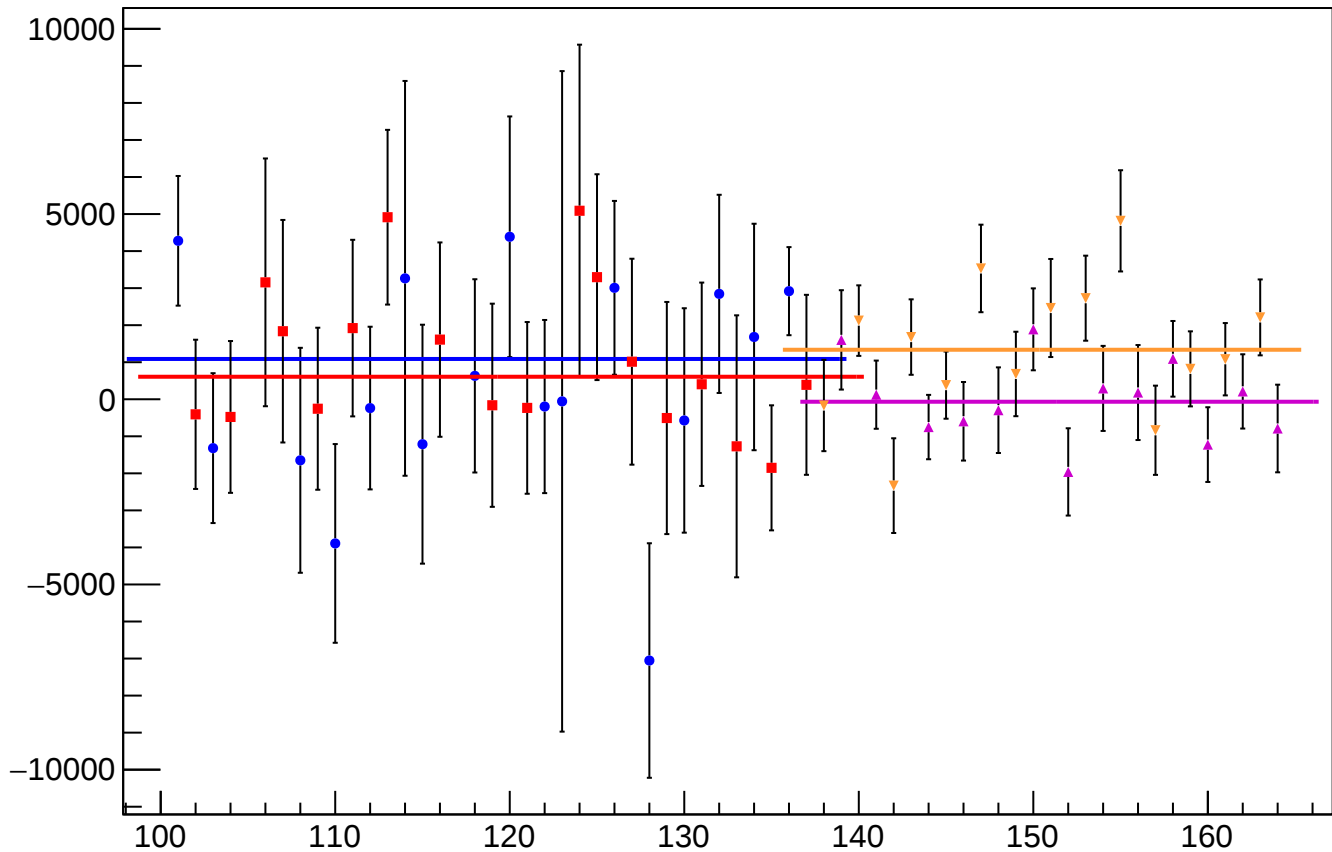
Left In: 953.544+/-0.211  $\chi^2$ /NDF:282094.9/12

+ sign 1054.382+/-0.185  $\chi^2$ /NDF: 2225216.4/30

All: 1063.545+/-0.132  $\chi^2$ /NDF: 4577894.2/63

- sign 1072.995+/-0.188  $\chi^2$ /NDF: 2347721.0/30

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 1336.536 $\pm$ 294.002  $\chi^2$ /NDF: 28.4/13

Right Out: 607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

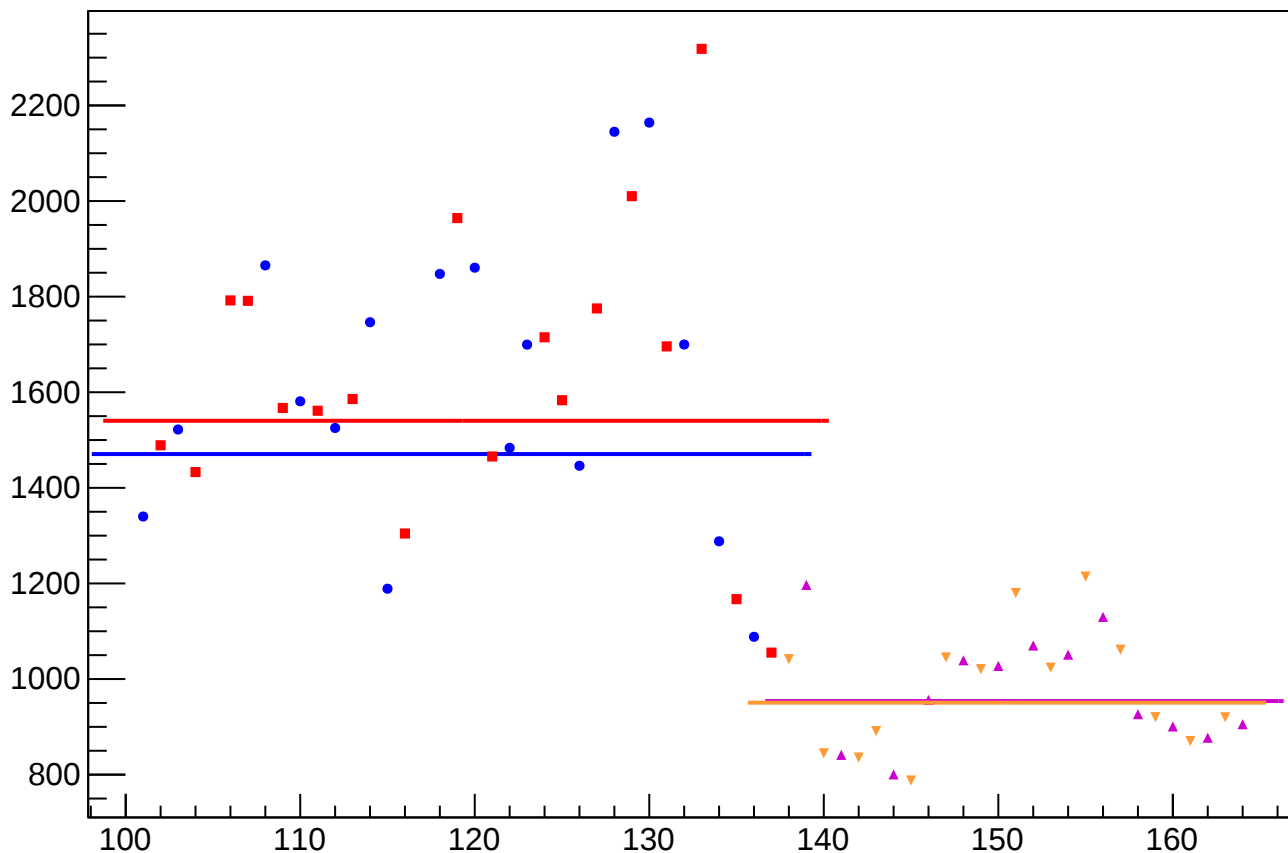
Left In: -66.896 $\pm$ 298.088  $\chi^2$ /NDF: 11.4/12

+ sign 1286.188 $\pm$ 262.541  $\chi^2$ /NDF: 50.4/30

All: 686.392 $\pm$ 186.925  $\chi^2$ /NDF: 83.3/61

- sign 69.760 $\pm$ 266.201  $\chi^2$ /NDF: 22.4/30

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1470.683+/-0.412  $\chi^2/\text{NDF}$ : 567728.4/16

Left Out: 950.631+/-0.208  $\chi^2/\text{NDF}$ : 320190.3/13

Right Out: 1540.341+/-0.418  $\chi^2/\text{NDF}$ : 442804.3/17

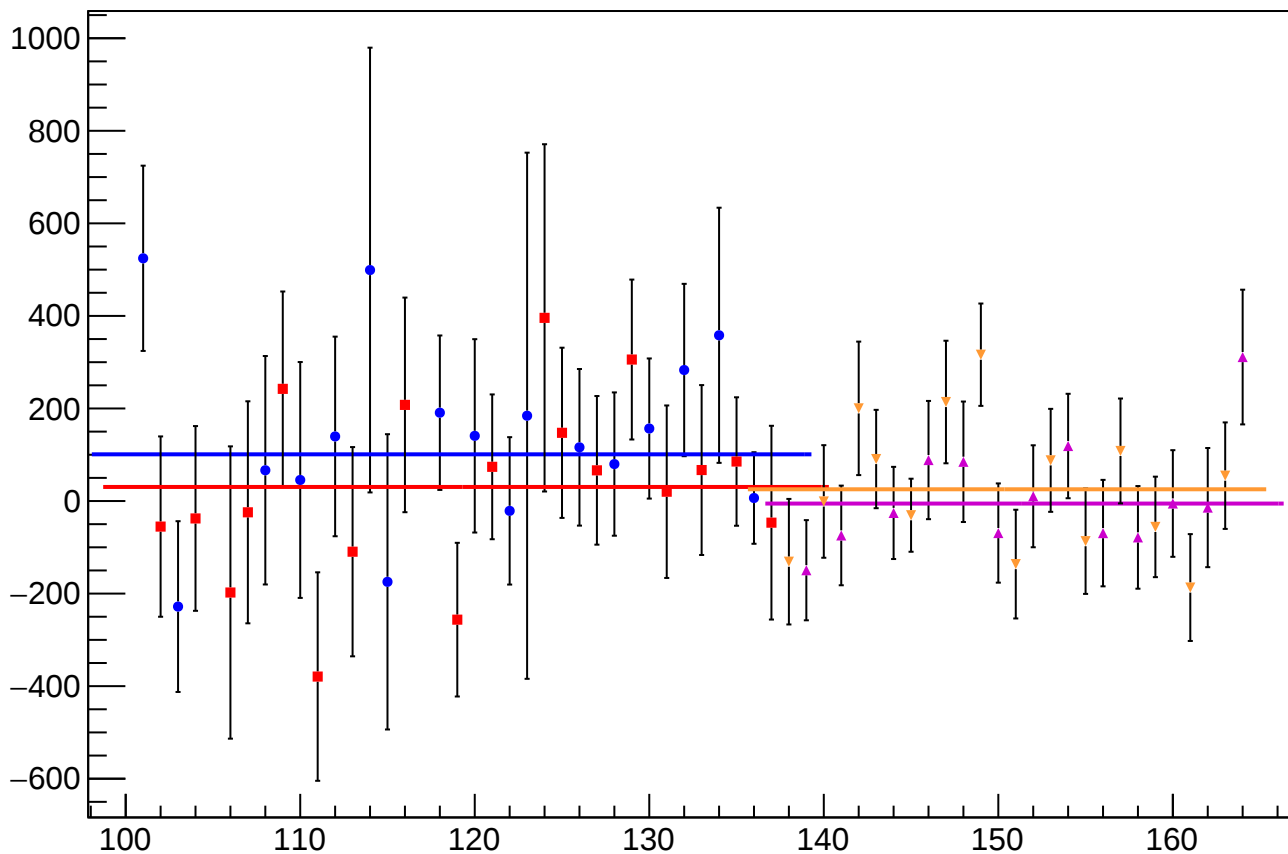
Left In: 953.978+/-0.211  $\chi^2/\text{NDF}$ : 271135.7/12

+ sign 1055.977+/-0.186  $\chi^2/\text{NDF}$ : 2155551.0/30

All: 1064.232+/-0.132  $\chi^2/\text{NDF}$ : 4440641.7/63

- sign 1072.719+/-0.188  $\chi^2/\text{NDF}$ : 2281080.3/30

# 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: 25.384 $\pm$ 30.130  $\chi^2/\text{NDF}$ :20.4/13

Right Out: 30.411 $\pm$ 45.710  $\chi^2/\text{NDF}$ : 13.5/17

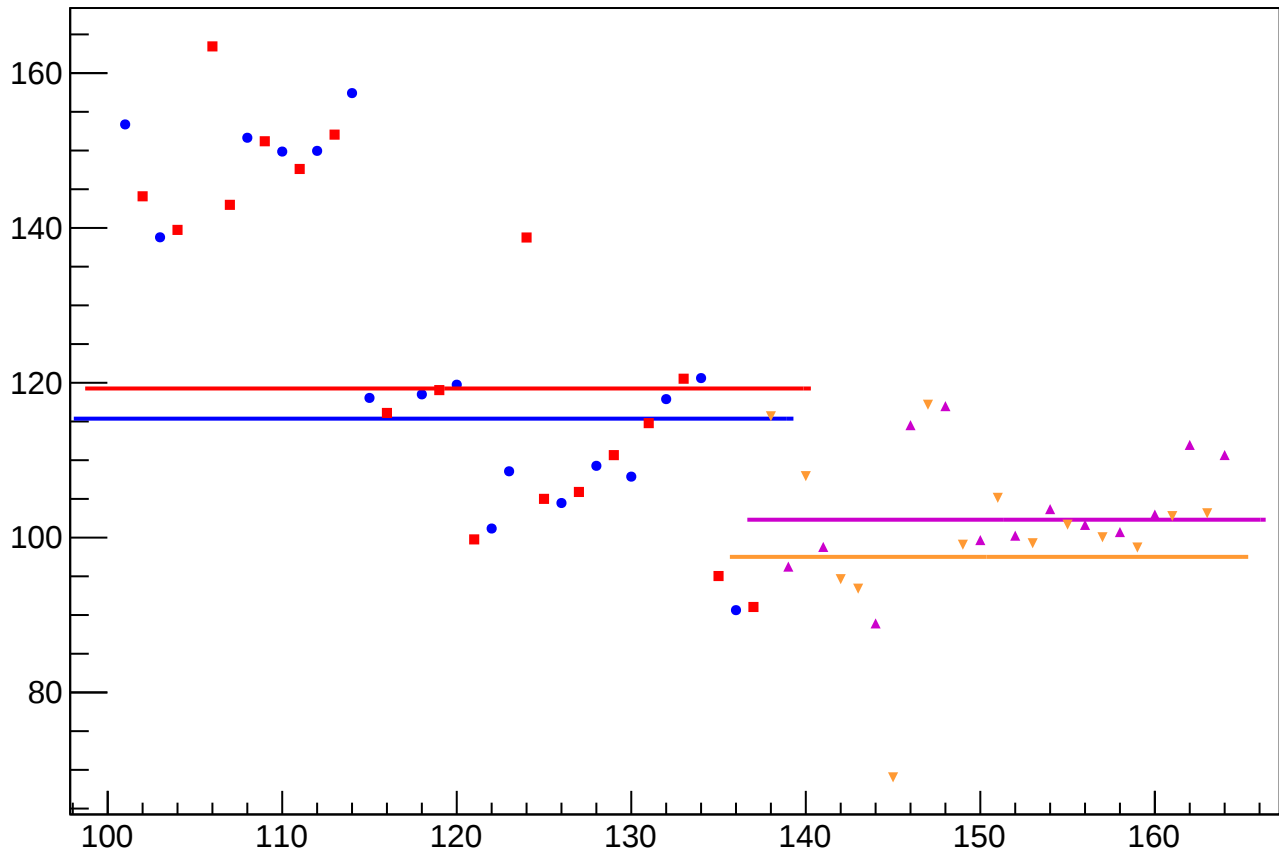
Left In: -5.478 $\pm$ 31.937  $\chi^2/\text{NDF}$ :10.3/12

+ sign 48.562 $\pm$ 25.085  $\chi^2/\text{NDF}$ : 35.4/30

All: 28.331 $\pm$ 18.112  $\chi^2/\text{NDF}$ : 60.9/61

- sign 6.294 $\pm$ 26.180  $\chi^2/\text{NDF}$ : 24.2/30

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 97.512 $\pm$ 0.021  $\chi^2$ /NDF:381076.7/13

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

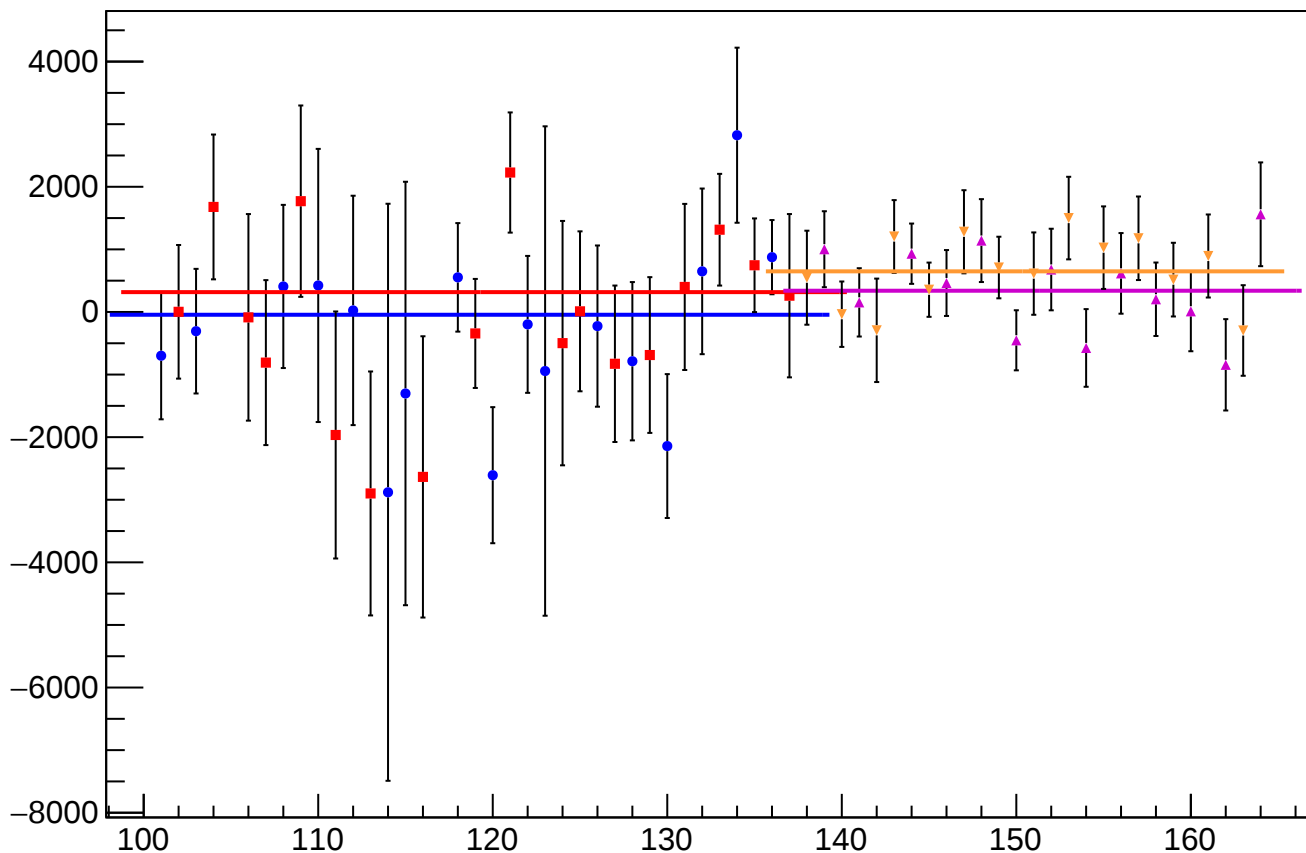
Left In: 102.312 $\pm$ 0.023  $\chi^2$ /NDF:108861.0/12

+ sign 102.991 $\pm$ 0.018  $\chi^2$ /NDF: 1007936.4/30

All: 105.328 $\pm$ 0.013  $\chi^2$ /NDF: 1736177.7/61

- sign 107.872 $\pm$ 0.019  $\chi^2$ /NDF: 691992.8/30

# asym\_sam\_26\_48\_dd\_correction\_mean vs Slug



Right In:  $-44.553 \pm 286.284$   $\chi^2/\text{NDF}$ : 17.9/16

Left Out:  $649.003 \pm 162.636$   $\chi^2/\text{NDF}$ : 9.8/13

Right Out:  $316.976 \pm 283.113$   $\chi^2/\text{NDF}$ : 16.8/17

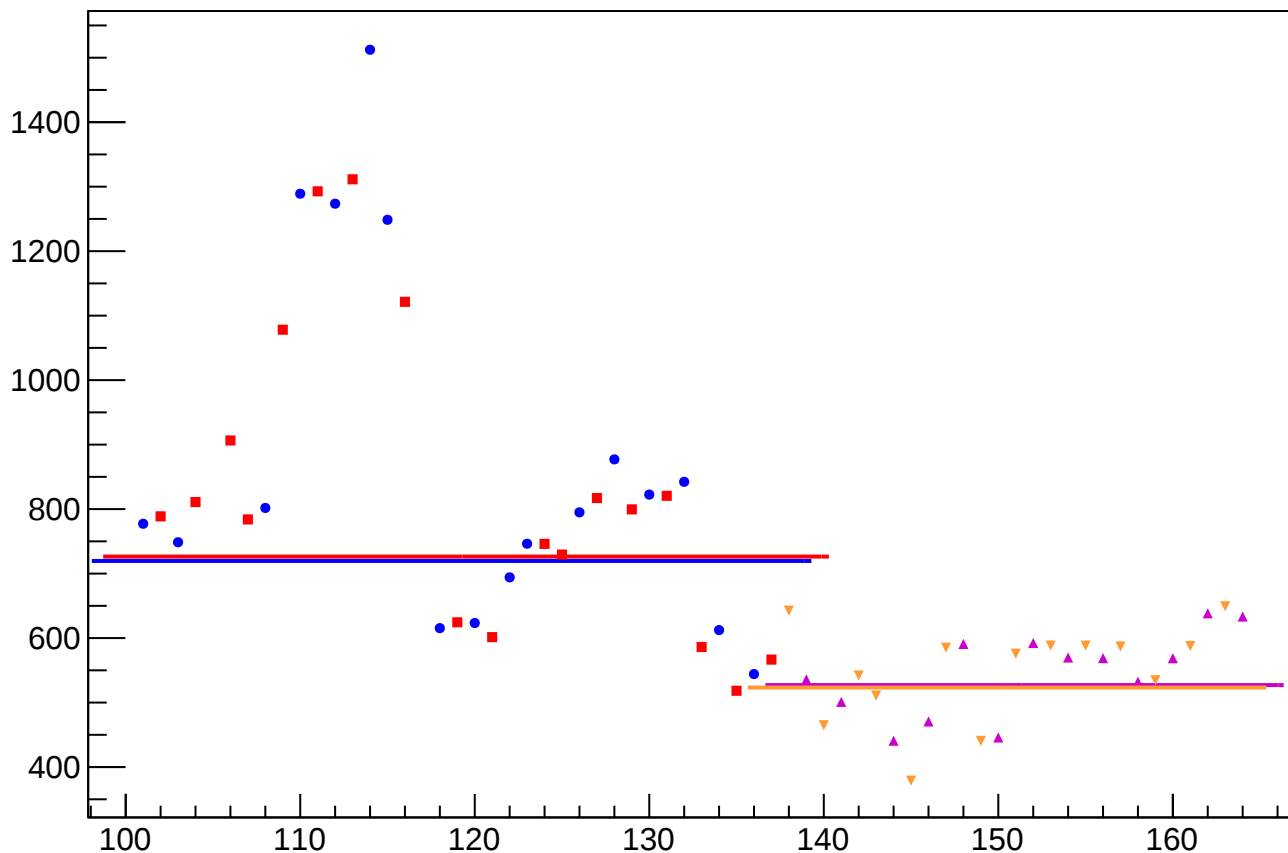
Left In:  $339.337 \pm 165.127$   $\chi^2/\text{NDF}$ : 14.8/12

+ sign  $479.784 \pm 141.410$   $\chi^2/\text{NDF}$ : 32.1/30

All:  $407.354 \pm 100.423$   $\chi^2/\text{NDF}$ : 64.3/61

- sign  $333.661 \pm 142.638$   $\chi^2/\text{NDF}$ : 31.6/30

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 523.312 $\pm$ 0.115  $\chi^2$ /NDF: 522854.0/13

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

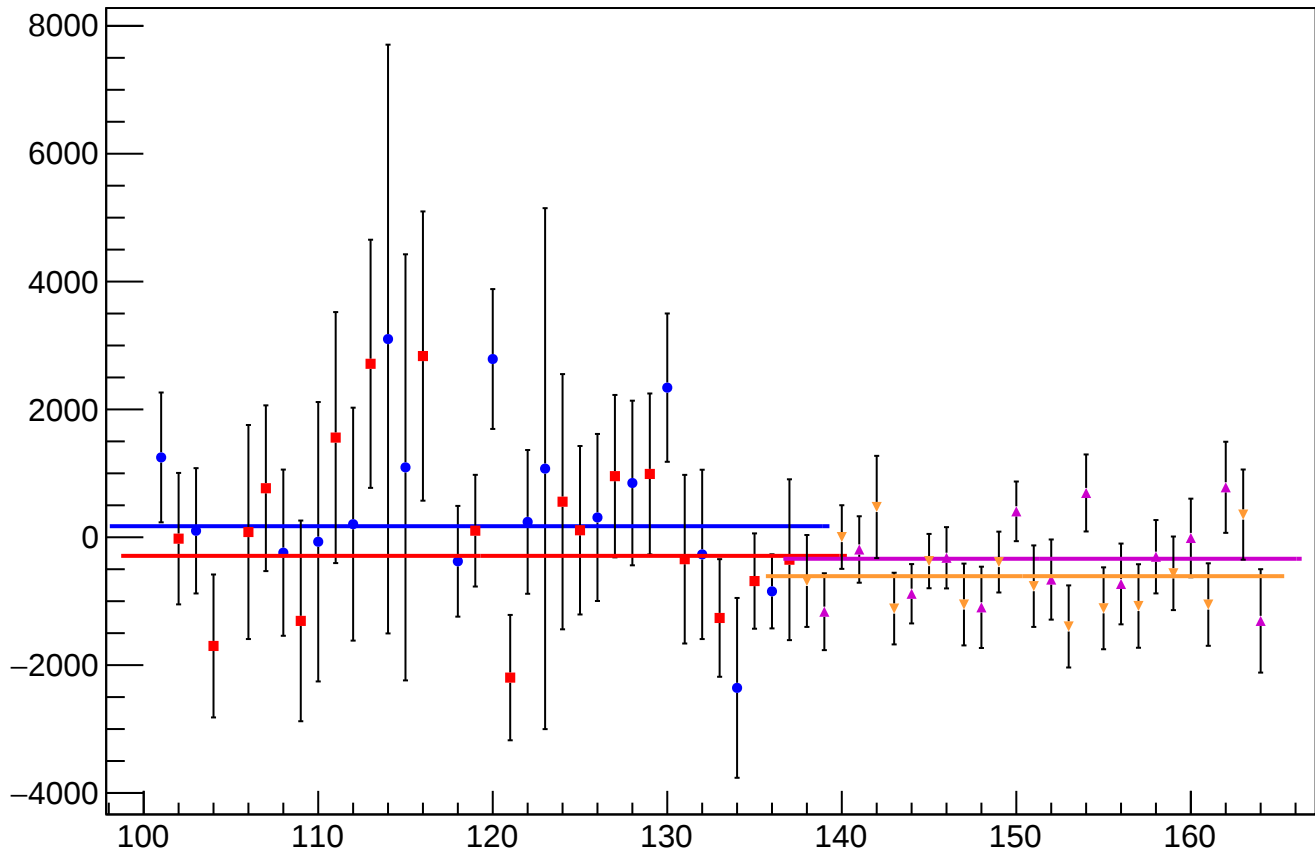
Left In: 527.133 $\pm$ 0.117  $\chi^2$ /NDF: 294062.8/12

+ sign 571.205 $\pm$ 0.100  $\chi^2$ /NDF: 1980655.6/30

All: 574.431 $\pm$ 0.071  $\chi^2$ /NDF: 3897079.8/61

- sign 577.713 $\pm$ 0.101  $\chi^2$ /NDF: 1914324.4/30

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In:  $173.182 \pm 285.672$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $-608.508 \pm 157.704$   $\chi^2/\text{NDF}$ : 10.2/13

Right Out:  $-290.799 \pm 283.545$   $\chi^2/\text{NDF}$ : 15.6/17

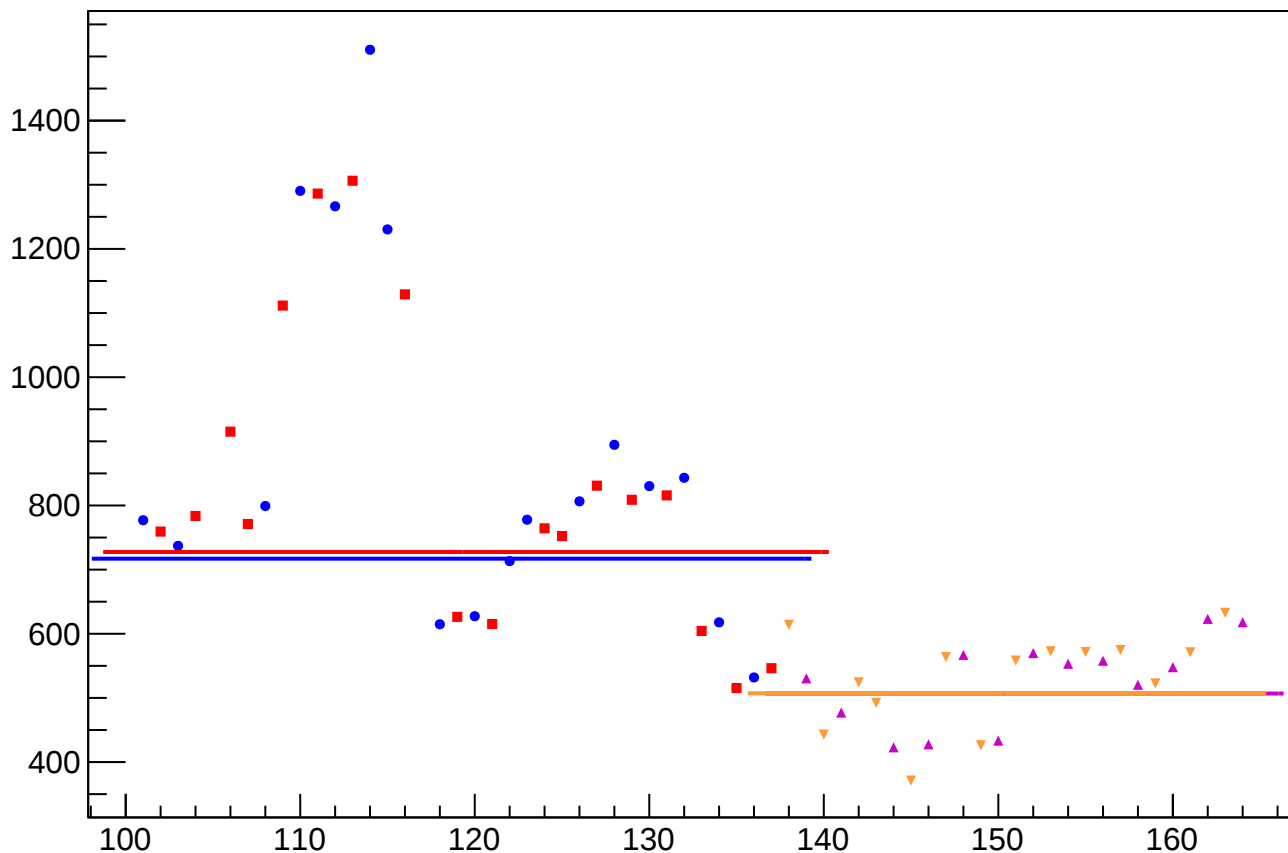
Left In:  $-336.339 \pm 159.091$   $\chi^2/\text{NDF}$ : 15.1/12

+ sign  $-425.928 \pm 138.063$   $\chi^2/\text{NDF}$ : 34.0/30

All:  $-375.929 \pm 97.865$   $\chi^2/\text{NDF}$ : 65.1/61

- sign  $-325.435 \pm 138.744$   $\chi^2/\text{NDF}$ : 30.7/30

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.083+/-0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 507.280+/-0.112  $\chi^2/\text{NDF}$ : 518338.7/13

Right Out: 727.490+/-0.200  $\chi^2/\text{NDF}$ : 881036.5/17

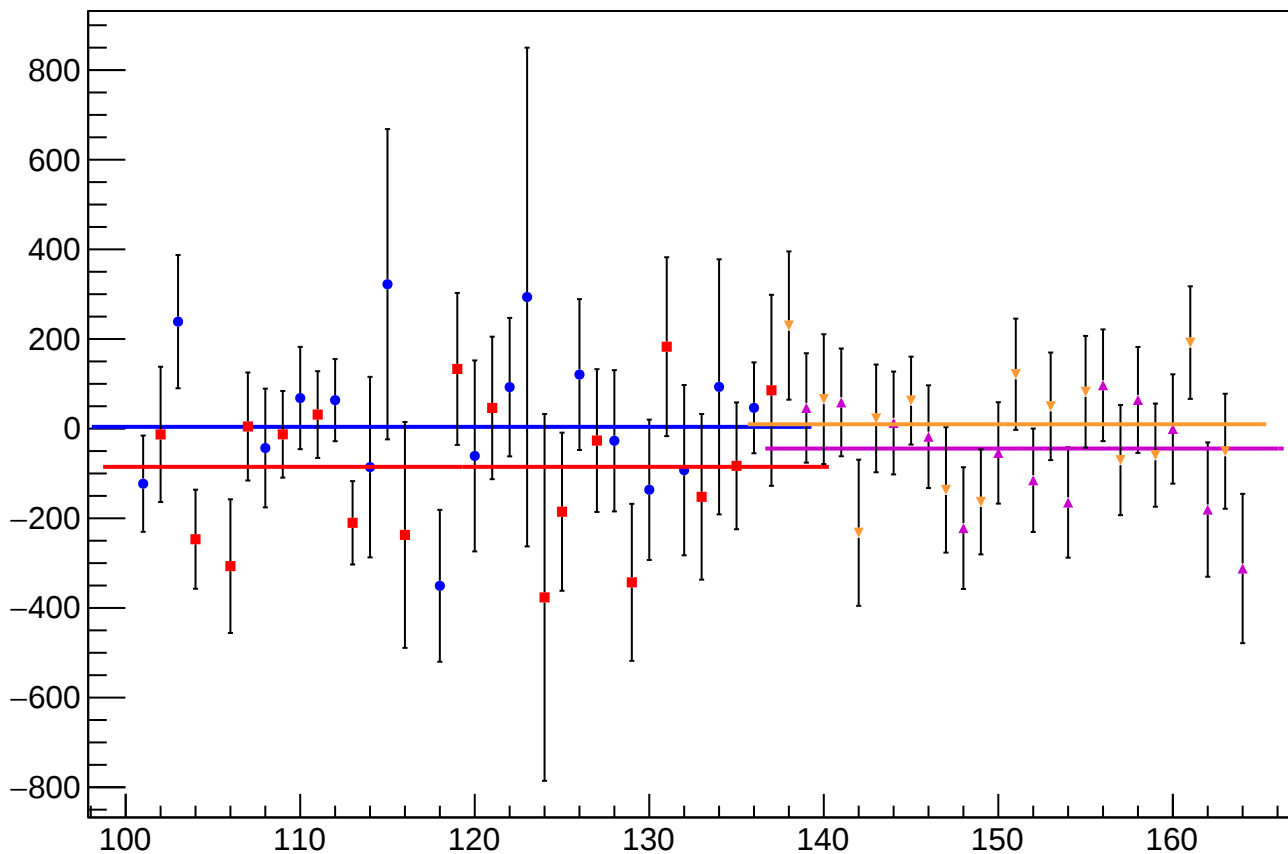
Left In: 506.815+/-0.112  $\chi^2/\text{NDF}$ : 343237.4/12

+ sign 556.284+/-0.098  $\chi^2/\text{NDF}$ : 2127562.8/30

All: 557.960+/-0.069  $\chi^2/\text{NDF}$ : 4273780.8/61

- sign 559.652+/-0.098  $\chi^2/\text{NDF}$ : 2145625.8/30

# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}$ : 12.7/16

Left Out:  $9.817 \pm 33.636$   $\chi^2/\text{NDF}$ : 12.1/13

Right Out:  $-85.205 \pm 33.413$   $\chi^2/\text{NDF}$ : 17.4/17

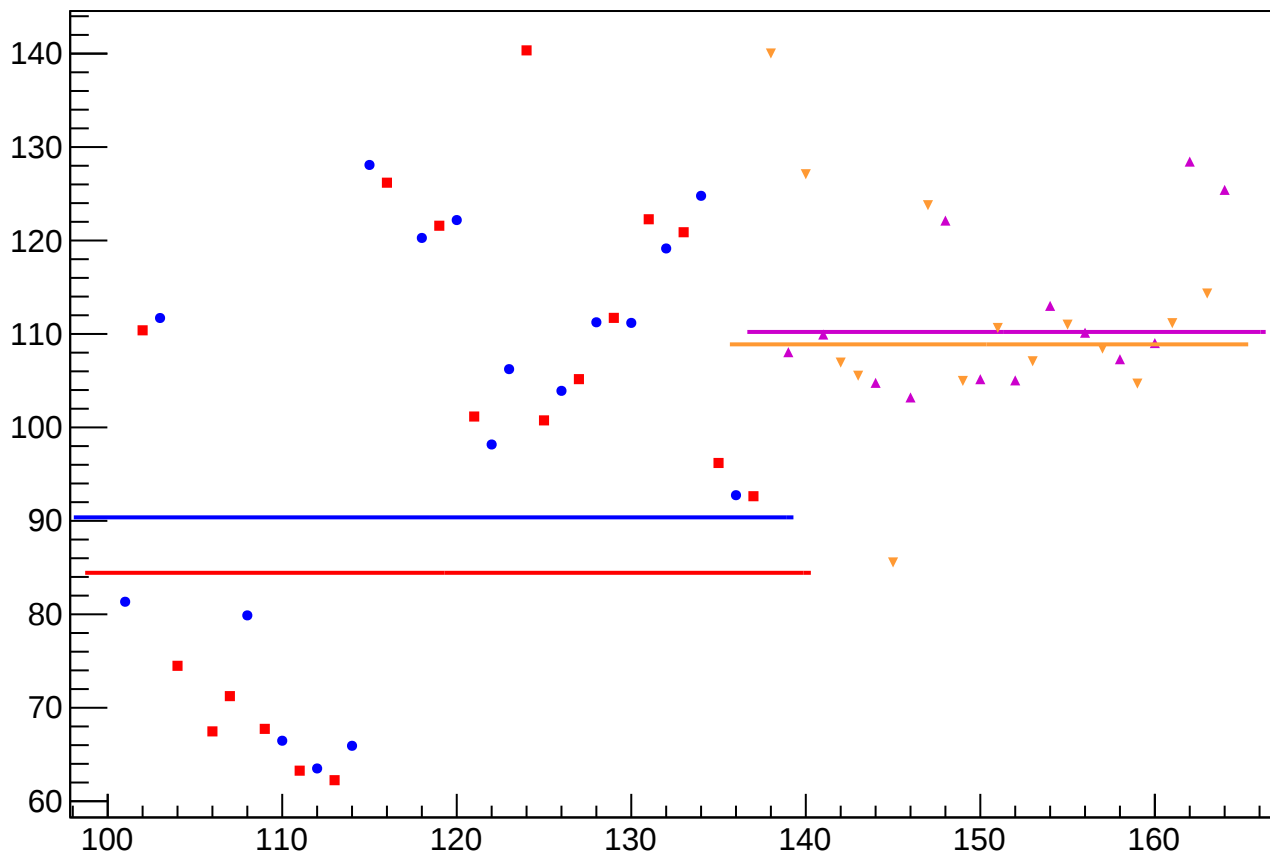
Left In:  $-44.357 \pm 34.386$   $\chi^2/\text{NDF}$ : 10.3/12

+ sign  $7.107 \pm 24.562$   $\chi^2/\text{NDF}$ : 24.8/30

All:  $-30.024 \pm 17.152$   $\chi^2/\text{NDF}$ : 57.7/61

- sign  $-65.367 \pm 23.963$   $\chi^2/\text{NDF}$ : 28.4/30

dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 90.375 $\pm$ 0.025  $\chi^2$ /NDF: 654139.7/16

Left Out: 108.887 $\pm$ 0.024  $\chi^2$ /NDF: 250918.9/13

Right Out: 84.442 $\pm$ 0.024  $\chi^2$ /NDF: 870835.6/17

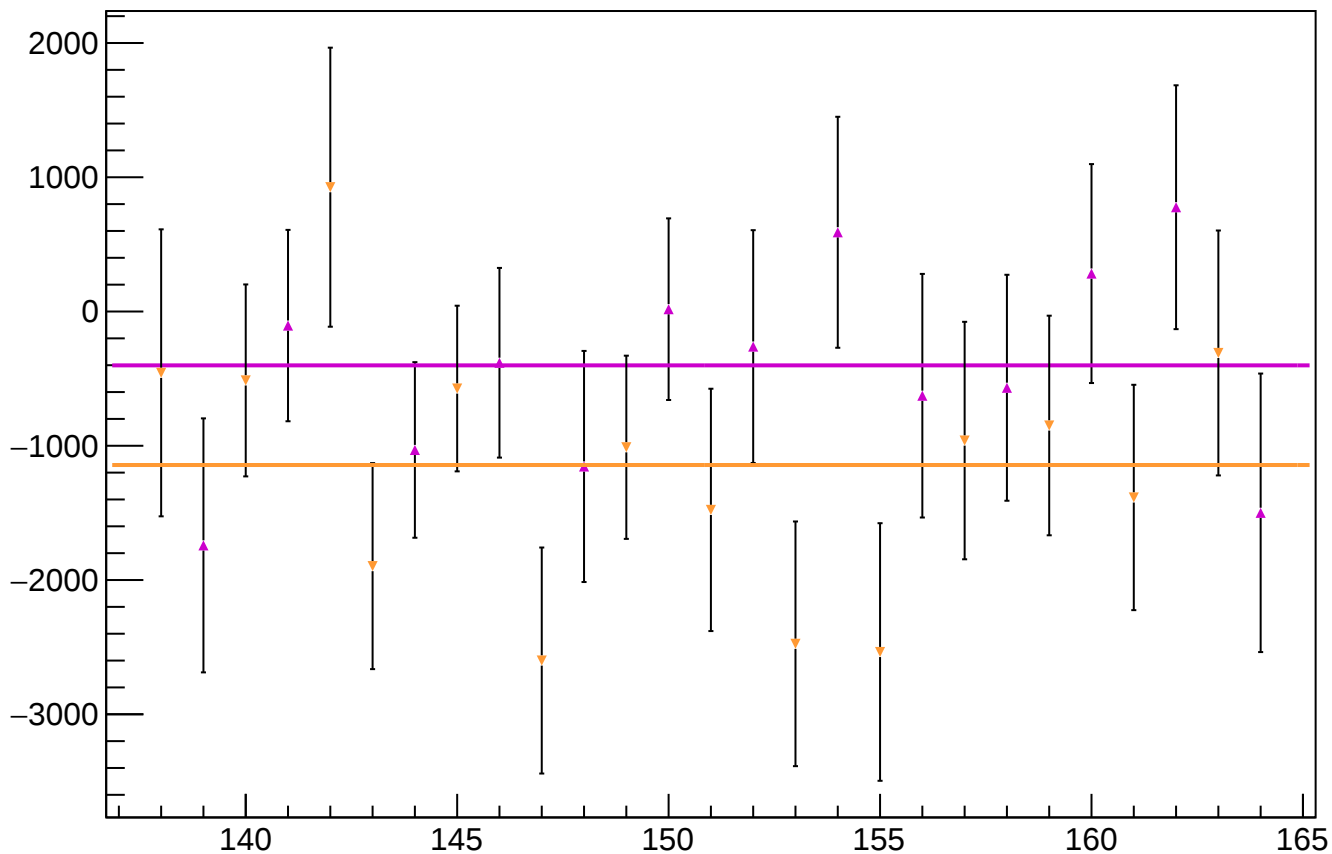
Left In: 110.216 $\pm$ 0.024  $\chi^2$ /NDF: 84734.5/12

+ sign 100.246 $\pm$ 0.017  $\chi^2$ /NDF: 1187845.1/30

All: 98.562 $\pm$ 0.012  $\chi^2$ /NDF: 2739722.4/61

- sign 96.959 $\pm$ 0.017  $\chi^2$ /NDF: 1533523.8/30

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



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

Left Out: -1143.331+/-220.557  $\chi^2/\text{NDF}$ :15.5/13

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

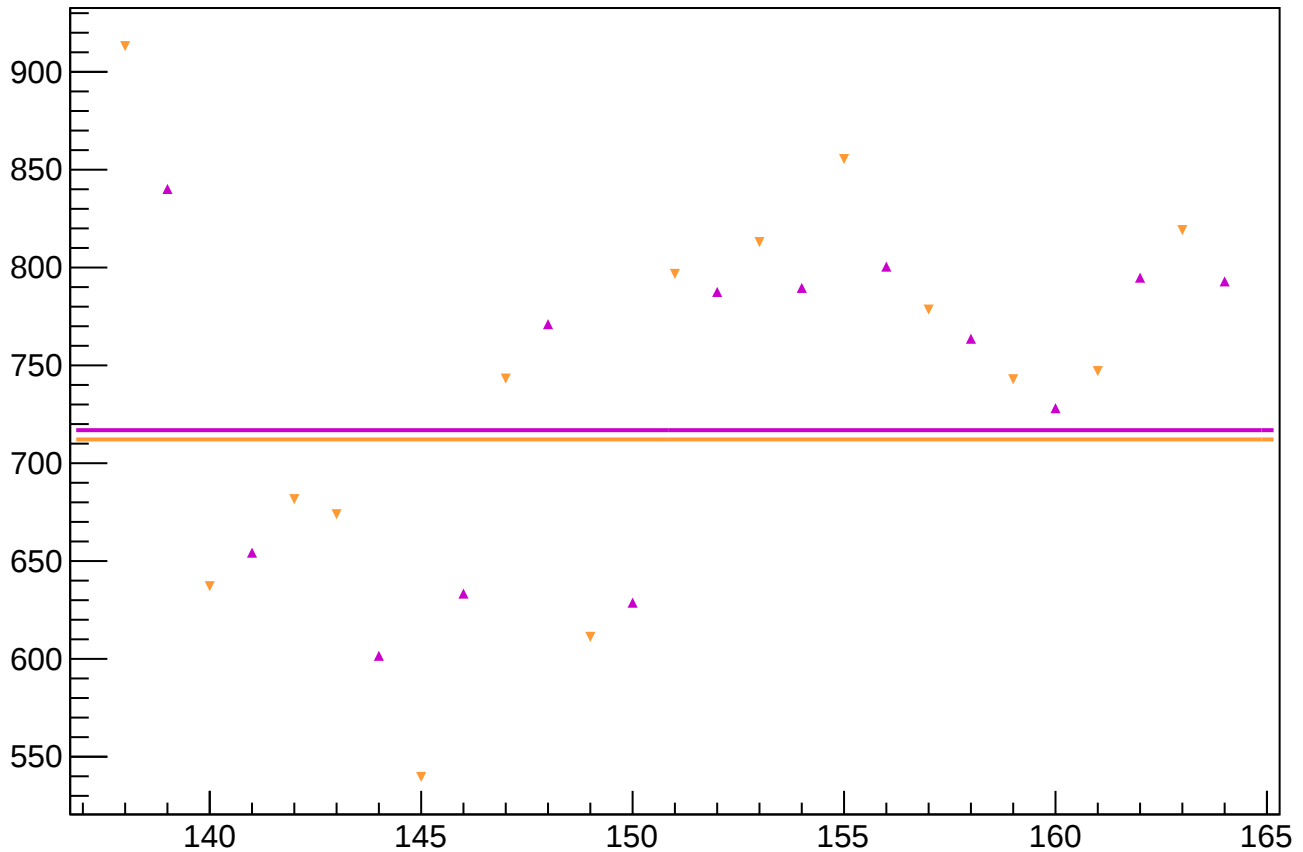
Left In: -401.114+/-224.065  $\chi^2/\text{NDF}$ :9.2/12

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

All: -778.079+/-157.183  $\chi^2/\text{NDF}$ : 30.3/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 712.140+/-0.156  $\chi^2/\text{NDF}$ :433950.2/13

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

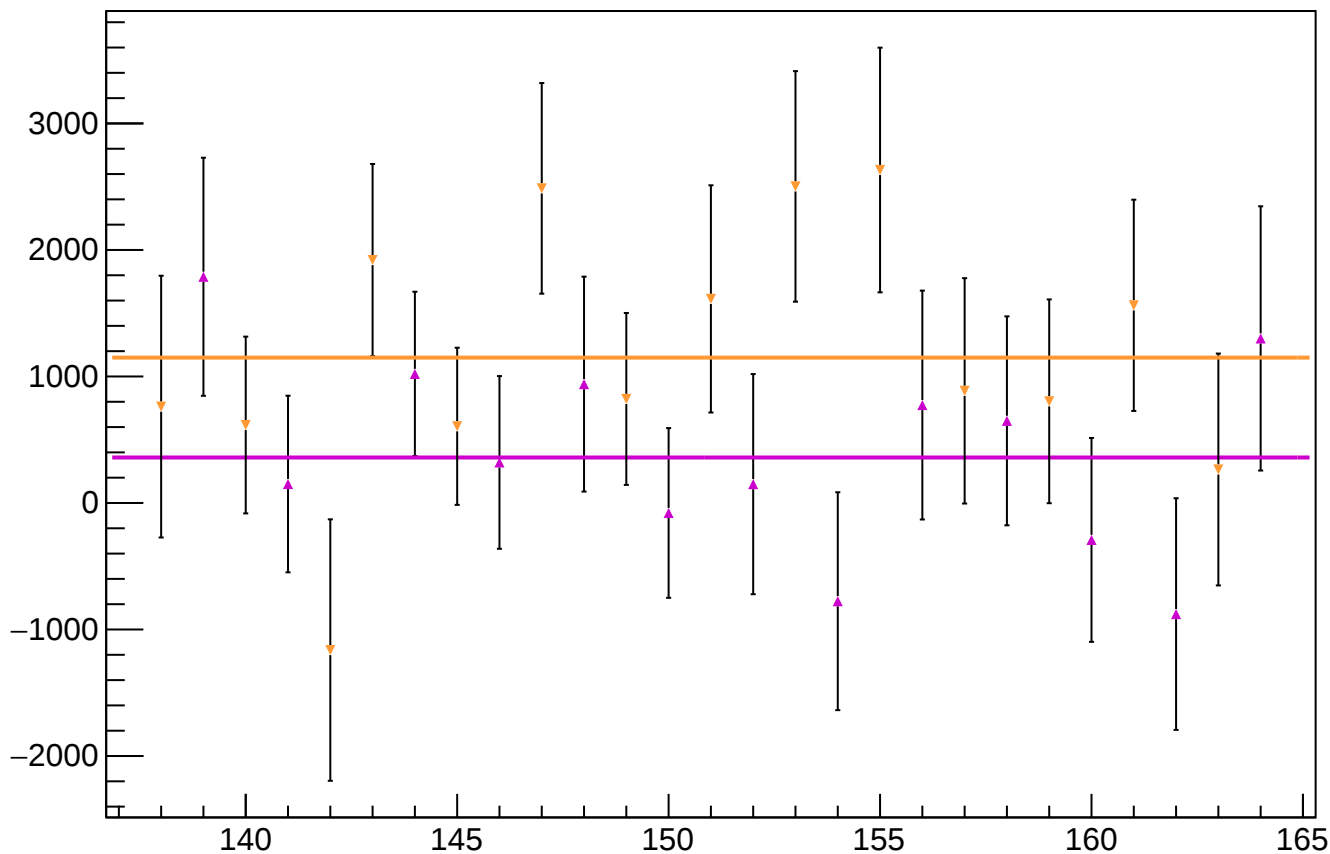
Left In: 716.884+/-0.158  $\chi^2/\text{NDF}$ :257988.1/12

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

All: 714.474+/-0.111  $\chi^2/\text{NDF}$ : 692393.7/26

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

# asym\_sam\_1548\_avg\_mean vs Slug



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

Left Out: 1149.151+/-219.293  $\chi^2/\text{NDF}$ :16.6/13

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

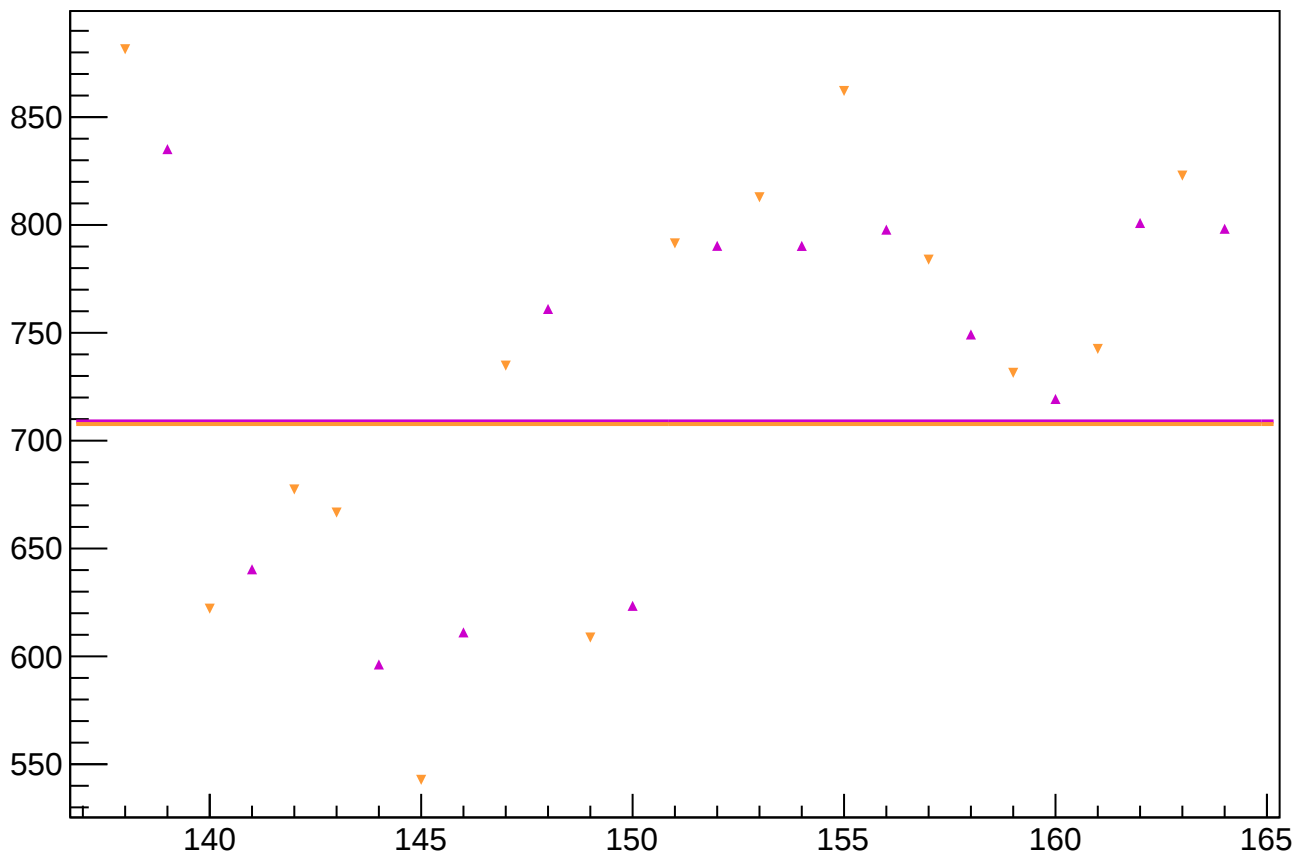
Left In: 359.620+/-221.870  $\chi^2/\text{NDF}$ :9.8/12

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

All: 758.997+/-155.967  $\chi^2/\text{NDF}$ : 32.8/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 707.705+/-0.155  $\chi^2/\text{NDF}$ : 426060.8/13

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

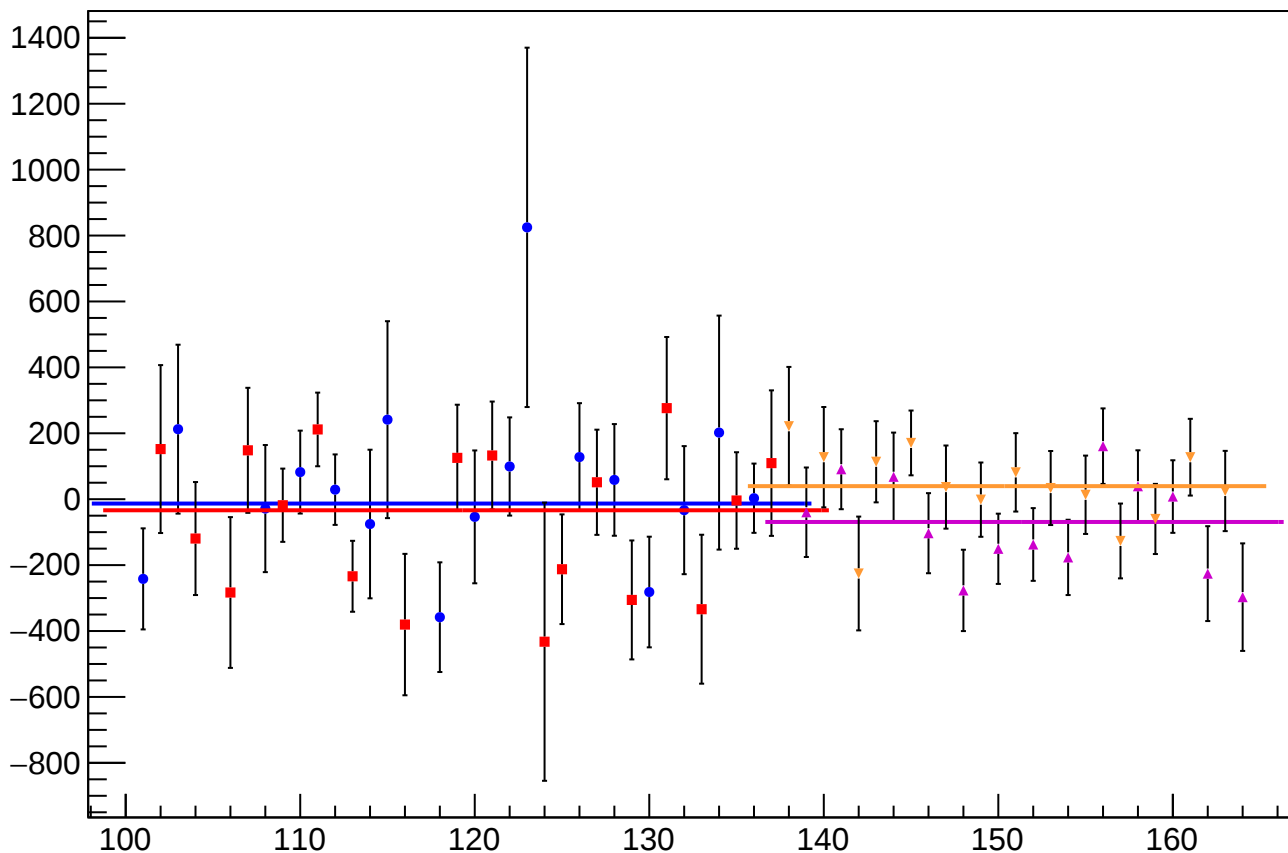
Left In: 708.921+/-0.157  $\chi^2/\text{NDF}$ : 291198.3/12

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

All: 708.306+/-0.110  $\chi^2/\text{NDF}$ : 717289.4/26

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

dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In:  $-13.215 \pm 40.554$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $39.614 \pm 32.506$   $\chi^2/\text{NDF}$ : 9.8/13

Right Out:  $-33.637 \pm 38.891$   $\chi^2/\text{NDF}$ : 24.7/17

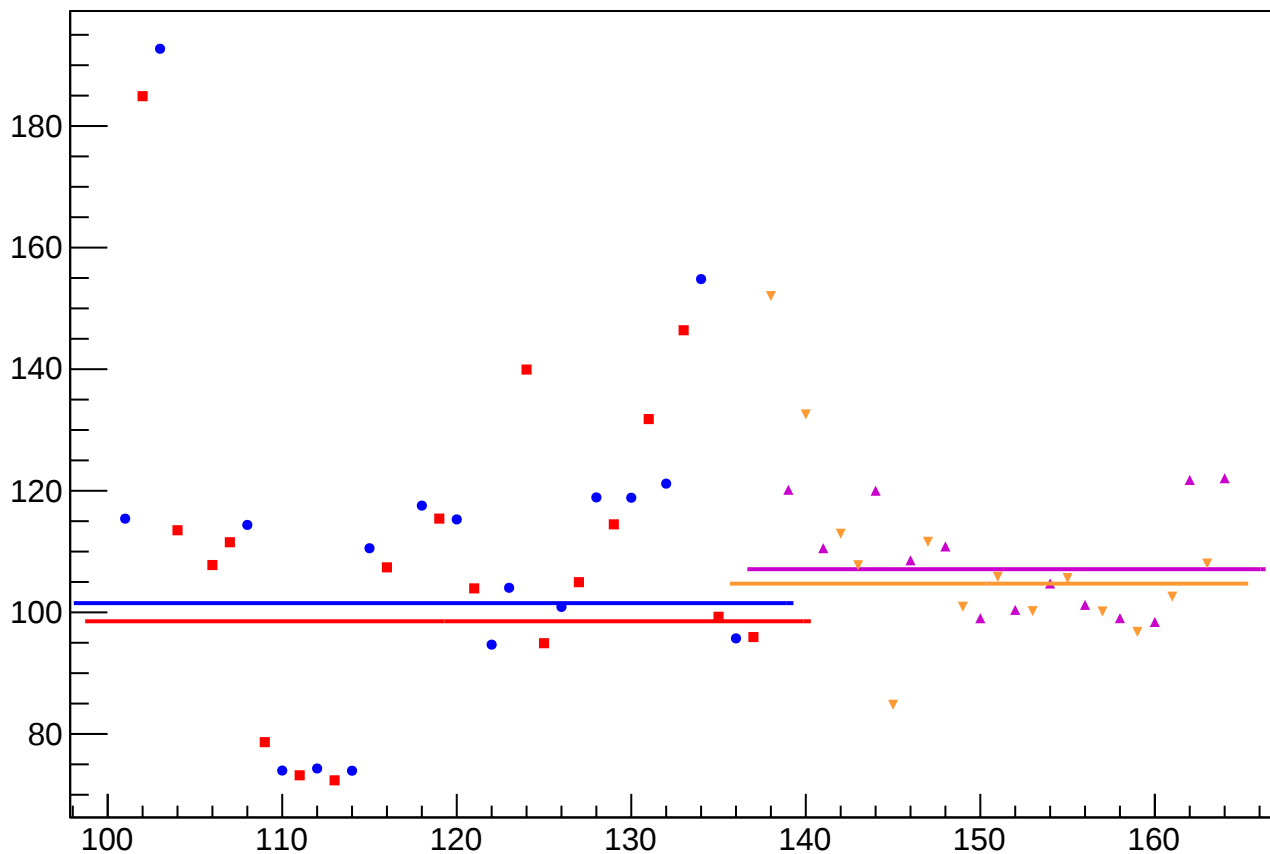
Left In:  $-69.097 \pm 33.587$   $\chi^2/\text{NDF}$ : 16.2/12

+ sign  $18.949 \pm 25.364$   $\chi^2/\text{NDF}$ : 26.5/30

All:  $-17.419 \pm 17.955$   $\chi^2/\text{NDF}$ : 72.0/61

- sign  $-53.948 \pm 25.420$   $\chi^2/\text{NDF}$ : 41.4/30

dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 101.519 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 681713.7/16

Left Out: 104.727 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 321244.3/13

Right Out: 98.537 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 746979.4/17

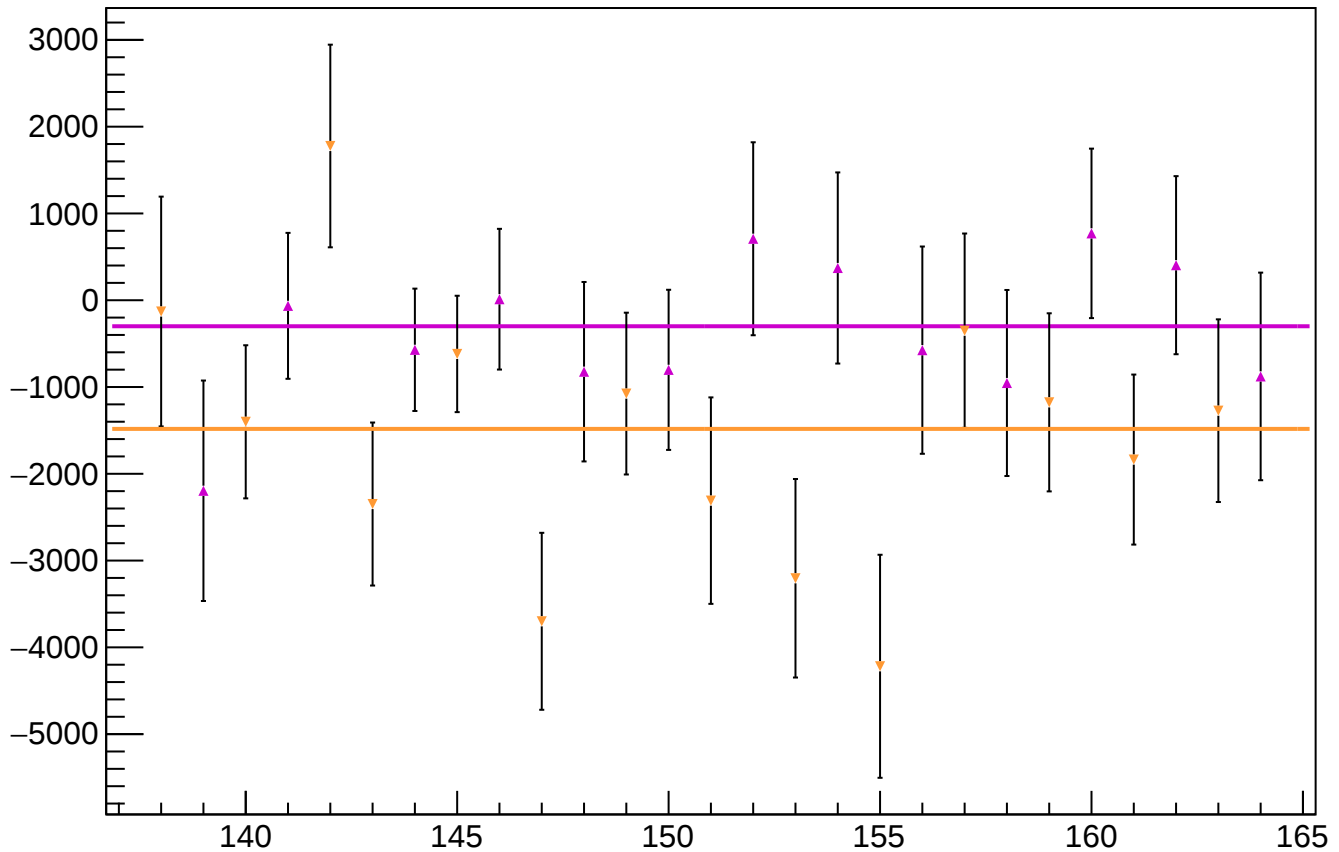
Left In: 107.102 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 126694.2/12

+ sign 103.472 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1010576.8/30

All: 103.457 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 1939815.2/61

- sign 103.443 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 929237.1/30

# asym\_sam\_3748\_avg\_correction\_mean vs Slug



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

Left Out: -1482.609+/-268.924  $\chi^2/\text{NDF}$ :24.8/13

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

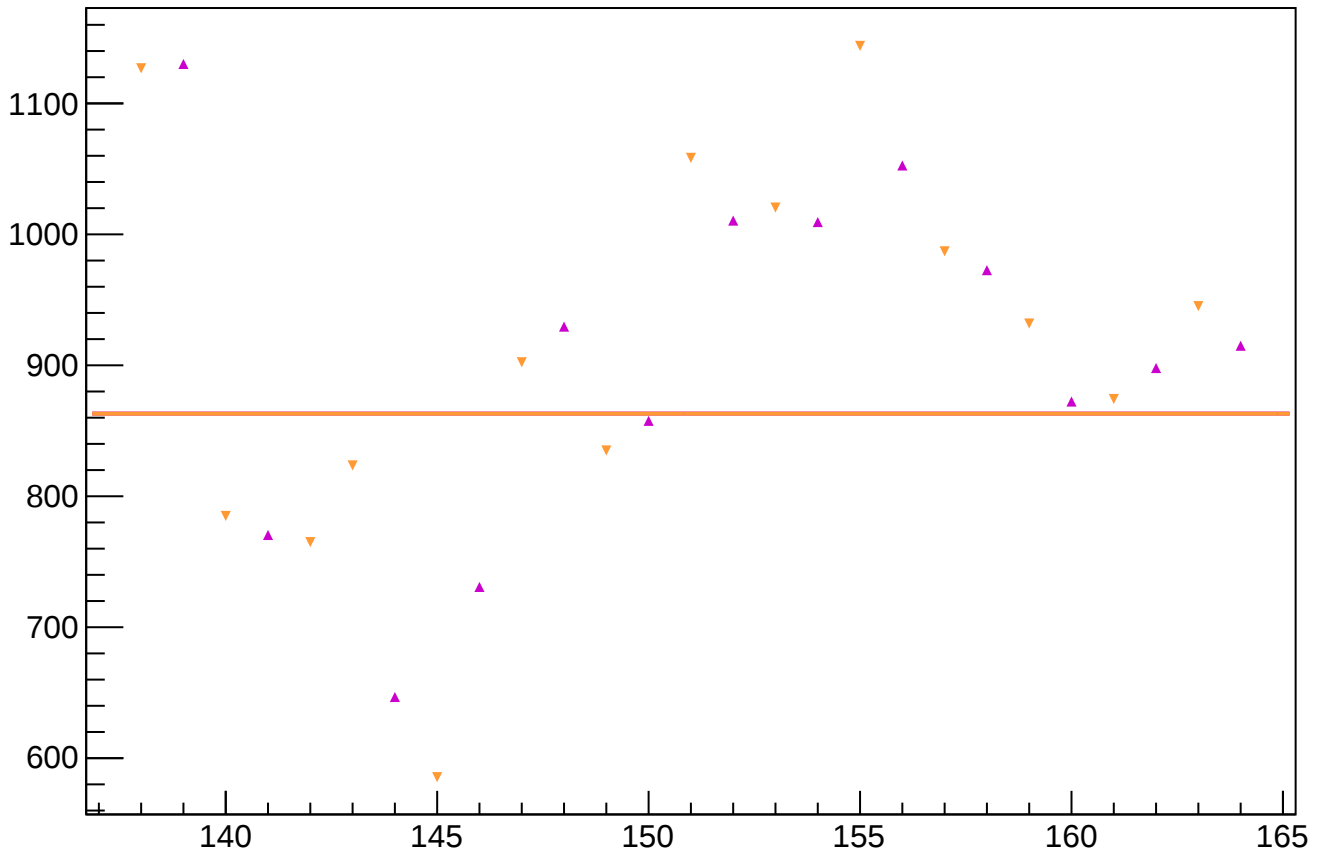
Left In: -299.849+/-271.359  $\chi^2/\text{NDF}$ :6.7/12

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

All: -896.558+/-191.013  $\chi^2/\text{NDF}$ : 41.1/26

- sign 0.000+/-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: 863.073+/-0.190  $\chi^2/\text{NDF}$ : 693516.1/13

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

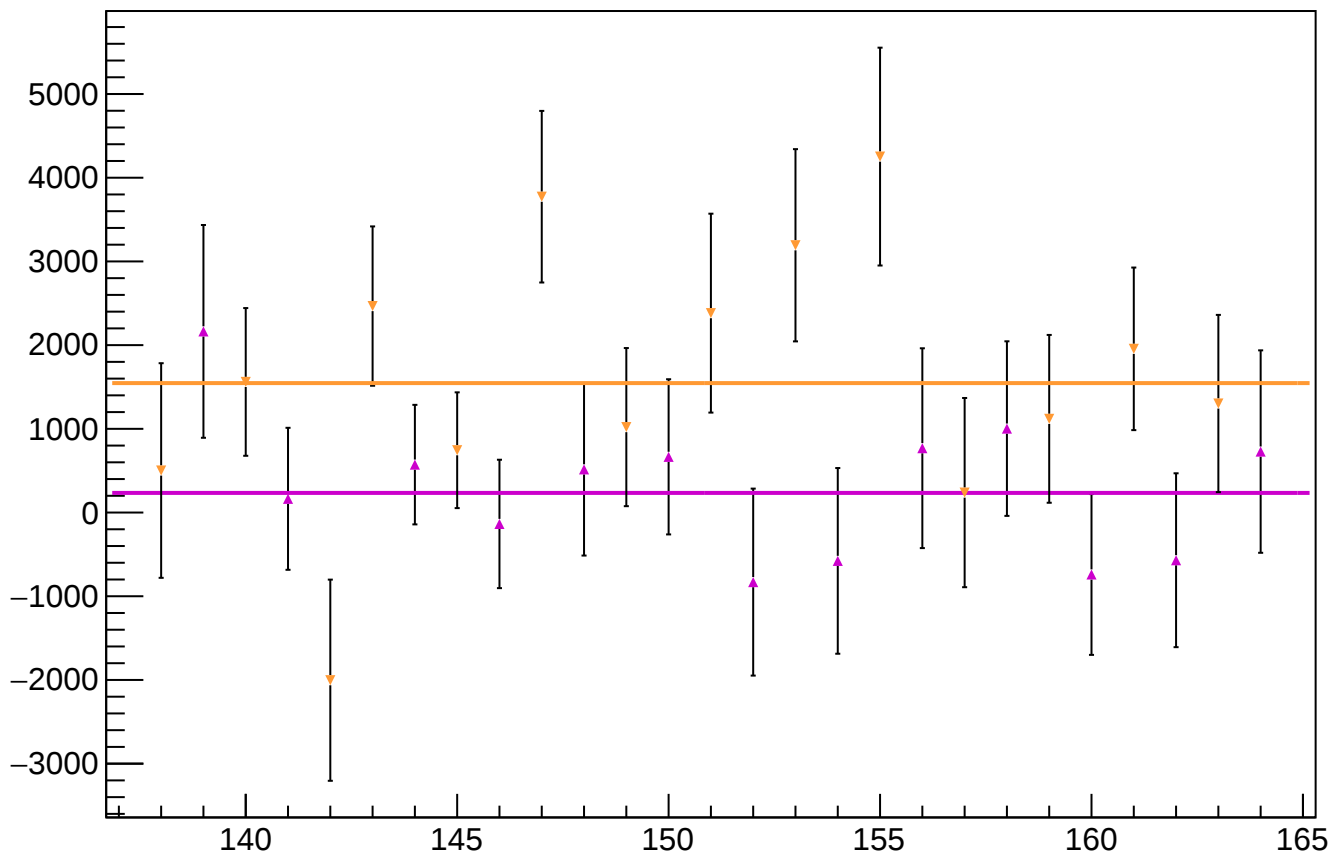
Left In: 863.146+/-0.192  $\chi^2/\text{NDF}$ : 510669.8/12

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

All: 863.109+/-0.135  $\chi^2/\text{NDF}$ : 1204186.0/26

- 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: 1546.406+/-270.755  $\chi^2/\text{NDF}$ :25.3/13

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

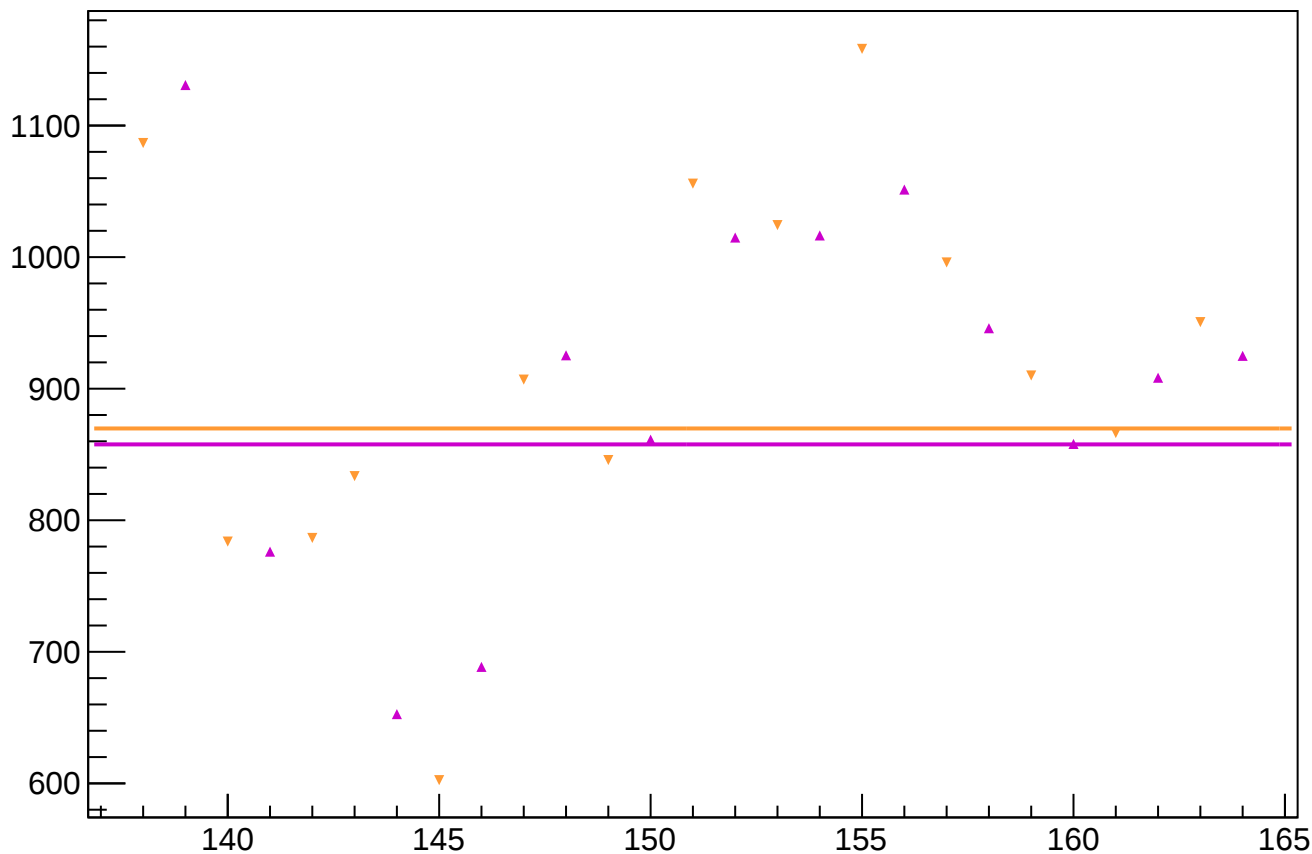
Left In: 234.497+/-270.097  $\chi^2/\text{NDF}$ :7.0/12

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

All: 888.854+/-191.220  $\chi^2/\text{NDF}$ : 44.1/26

- 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: 869.769+/-0.191  $\chi^2/\text{NDF}$ : 614982.0/13

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

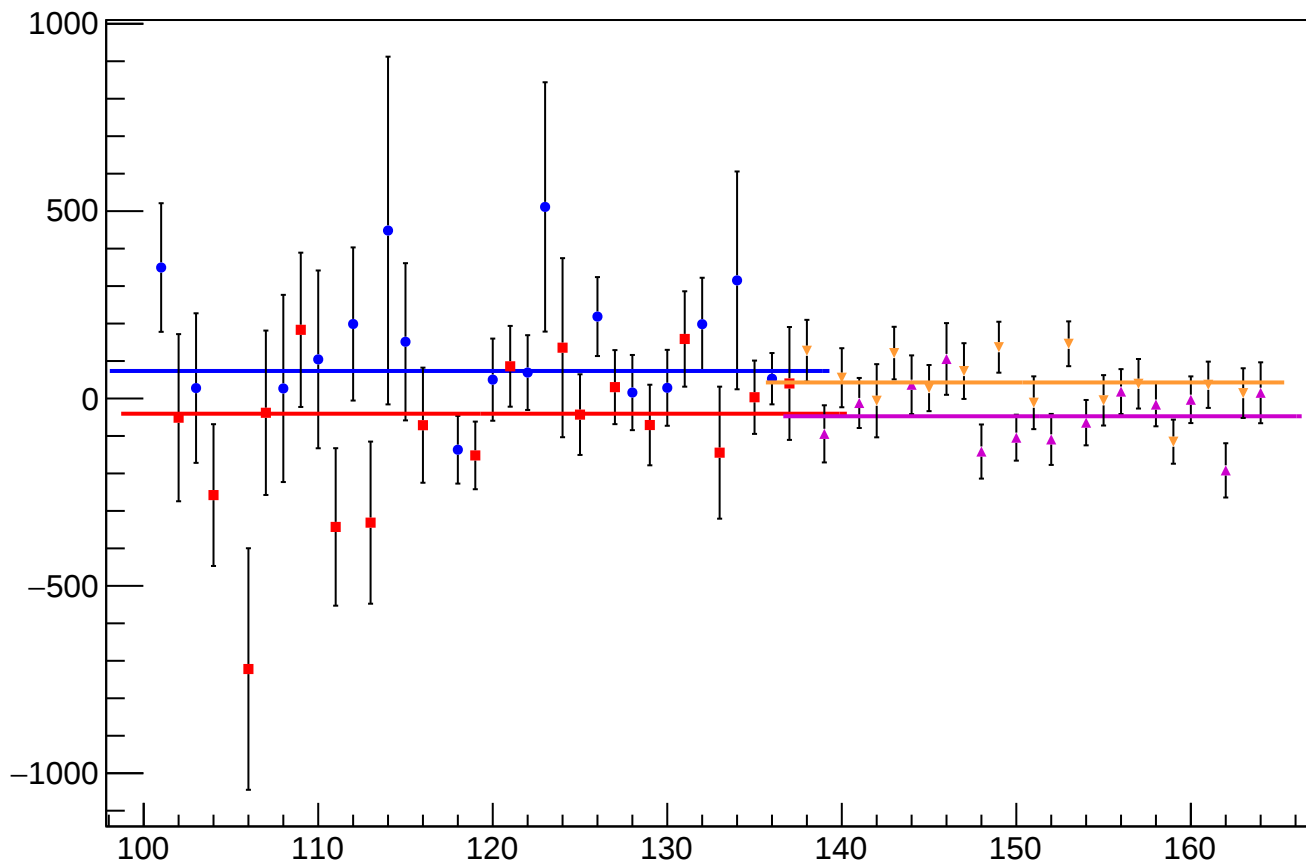
Left In: 857.661+/-0.191  $\chi^2/\text{NDF}$ : 540190.1/12

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

All: 863.701+/-0.135  $\chi^2/\text{NDF}$ : 1157176.8/26

- 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: 42.818 $\pm$ 18.297  $\chi^2$ /NDF: 16.2/13

Right Out: -40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

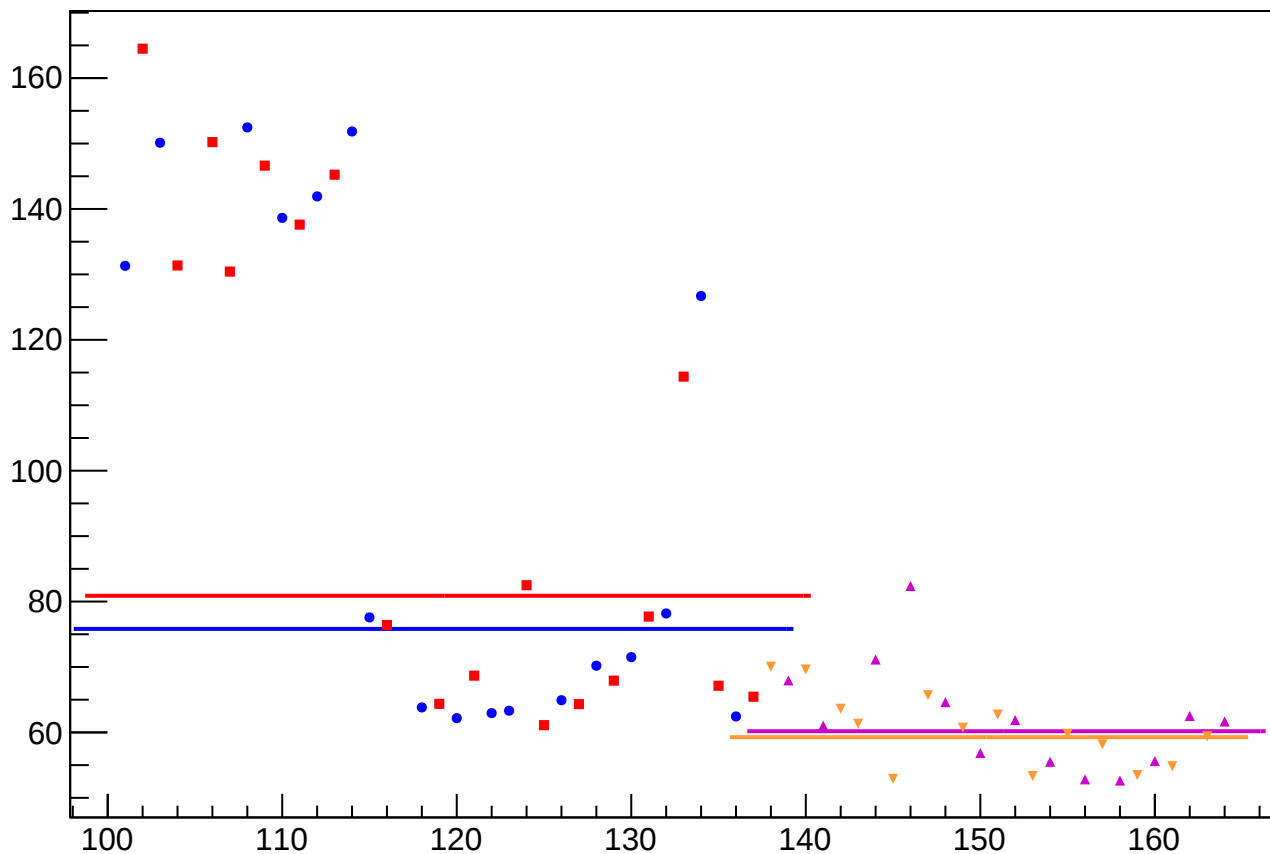
Left In: -47.410 $\pm$ 18.931  $\chi^2$ /NDF: 14.4/12

+ sign 50.708 $\pm$ 15.765  $\chi^2$ /NDF: 32.2/30

All: 4.374 $\pm$ 11.362  $\chi^2$ /NDF: 82.8/61

- sign -45.703 $\pm$ 16.389  $\chi^2$ /NDF: 32.7/30

dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 75.820+/-0.022  $\chi^2/\text{NDF}$ : 1349961.8/16

Left Out: 59.272+/-0.013  $\chi^2/\text{NDF}$ : 166248.9/13

Right Out: 80.881+/-0.023  $\chi^2/\text{NDF}$ : 1526044.5/17

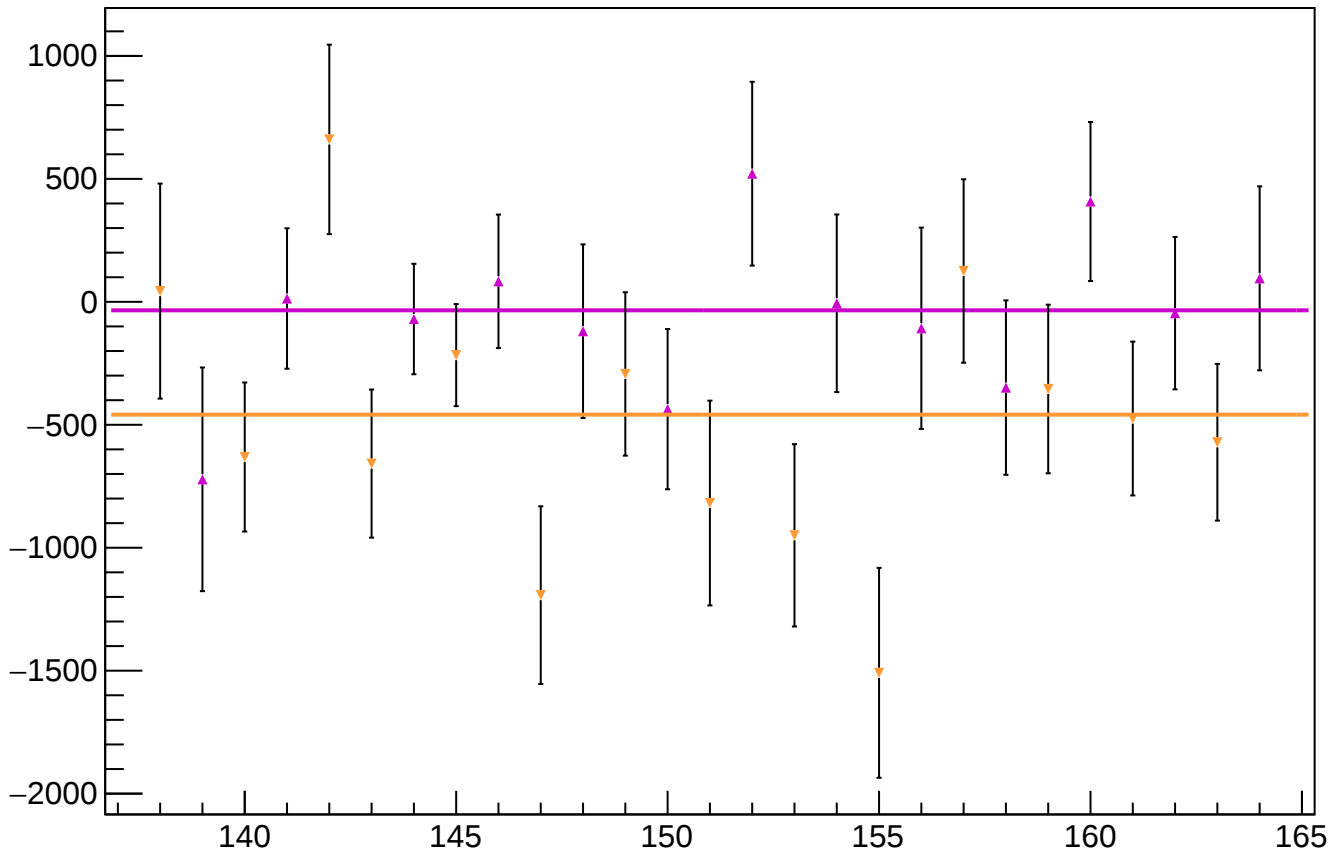
Left In: 60.183+/-0.013  $\chi^2/\text{NDF}$ : 271986.8/12

+ sign 63.535+/-0.011  $\chi^2/\text{NDF}$ : 1937631.9/30

All: 64.416+/-0.008  $\chi^2/\text{NDF}$ : 4347606.4/61

- sign 65.368+/-0.012  $\chi^2/\text{NDF}$ : 2396980.6/30

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



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

Left Out: -458.678+/-88.344  $\chi^2/\text{NDF}$ : 27.5/13

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

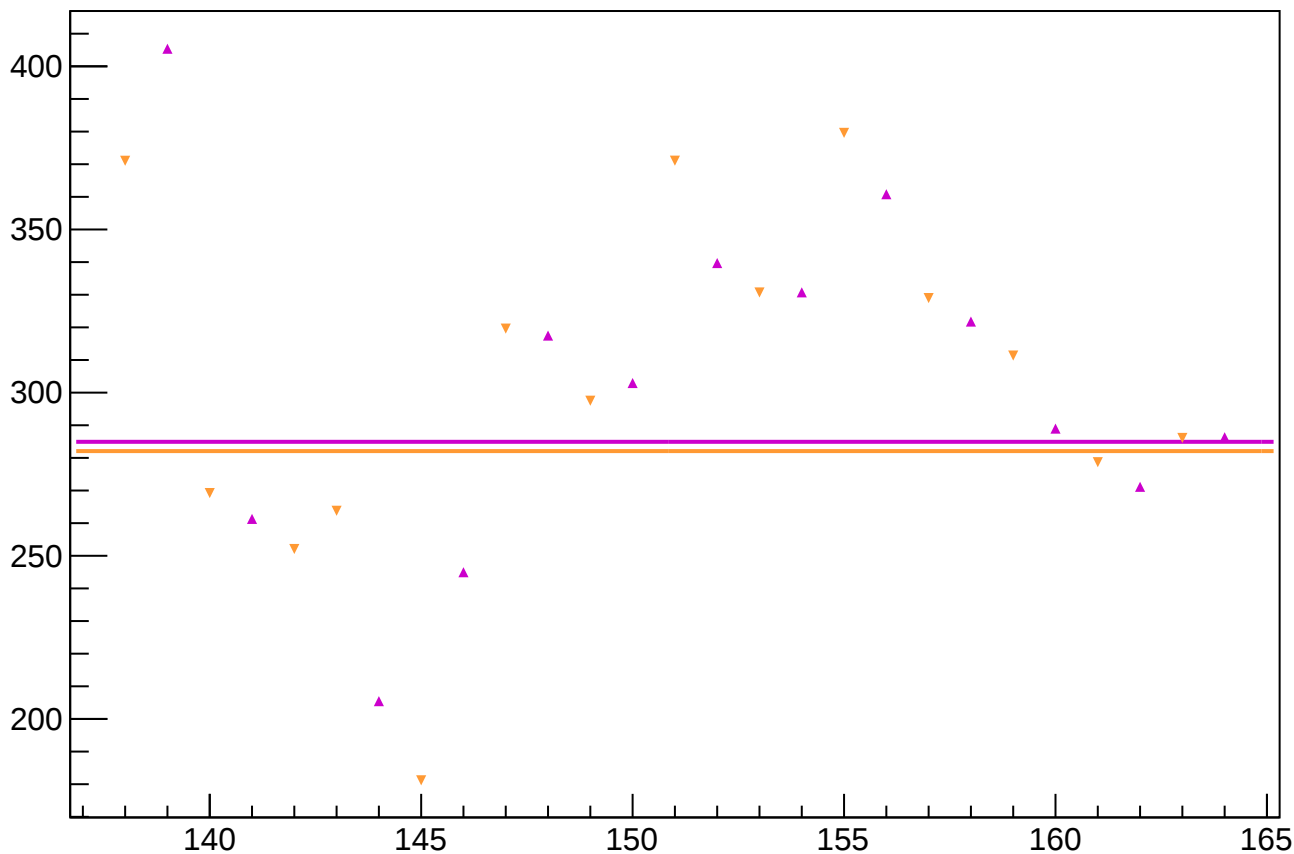
Left In: -34.493+/-89.876  $\chi^2/\text{NDF}$ : 9.1/12

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

All: -250.231+/-63.003  $\chi^2/\text{NDF}$ : 47.9/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 282.083+/-0.062  $\chi^2/\text{NDF}$ : 881468.0/13

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

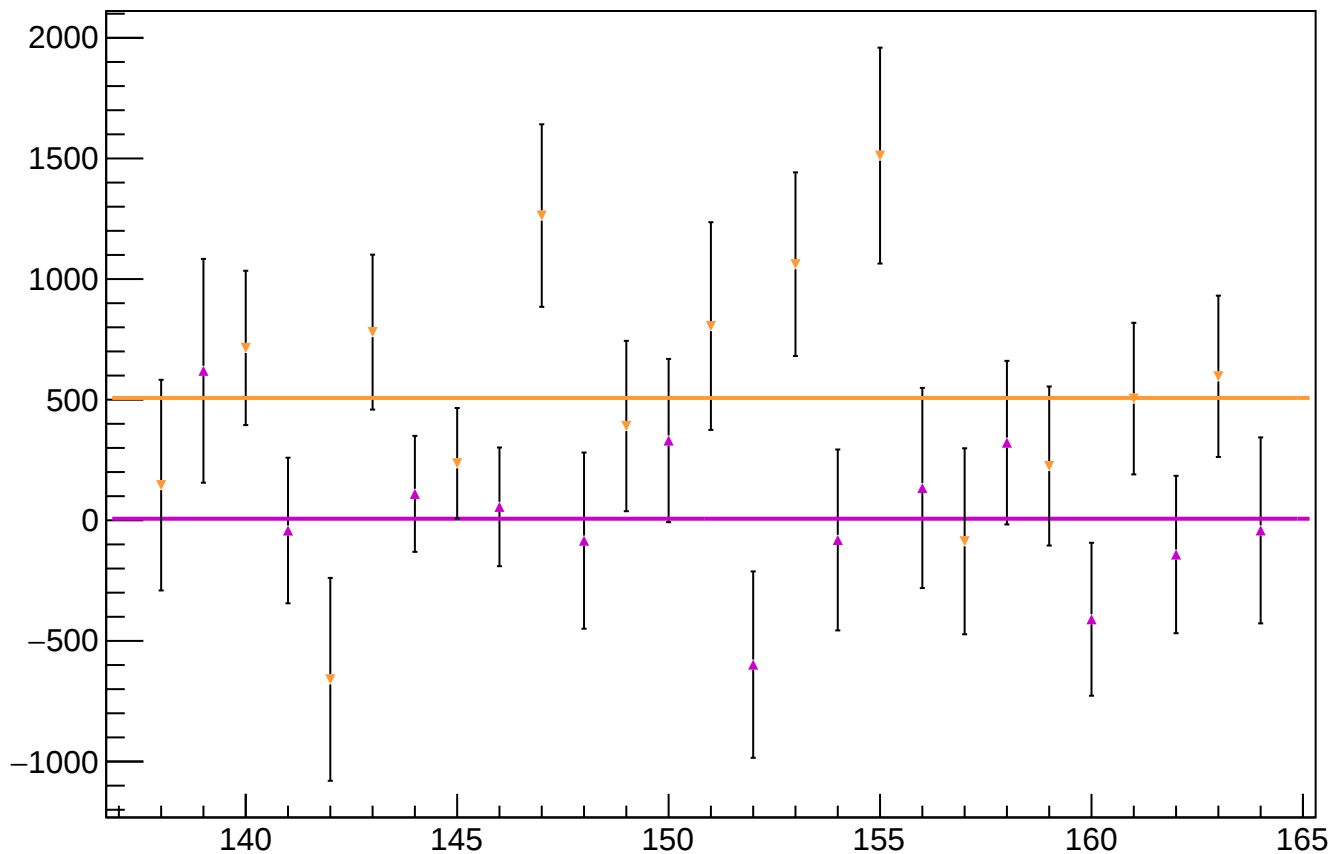
Left In: 284.930+/-0.064  $\chi^2/\text{NDF}$ : 640779.4/12

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

All: 283.482+/-0.045  $\chi^2/\text{NDF}$ : 1523267.9/26

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

# asym\_sam\_1526\_avg\_mean vs Slug



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

Left Out: 507.223+/-92.564  $\chi^2/\text{NDF}$ : 25.8/13

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

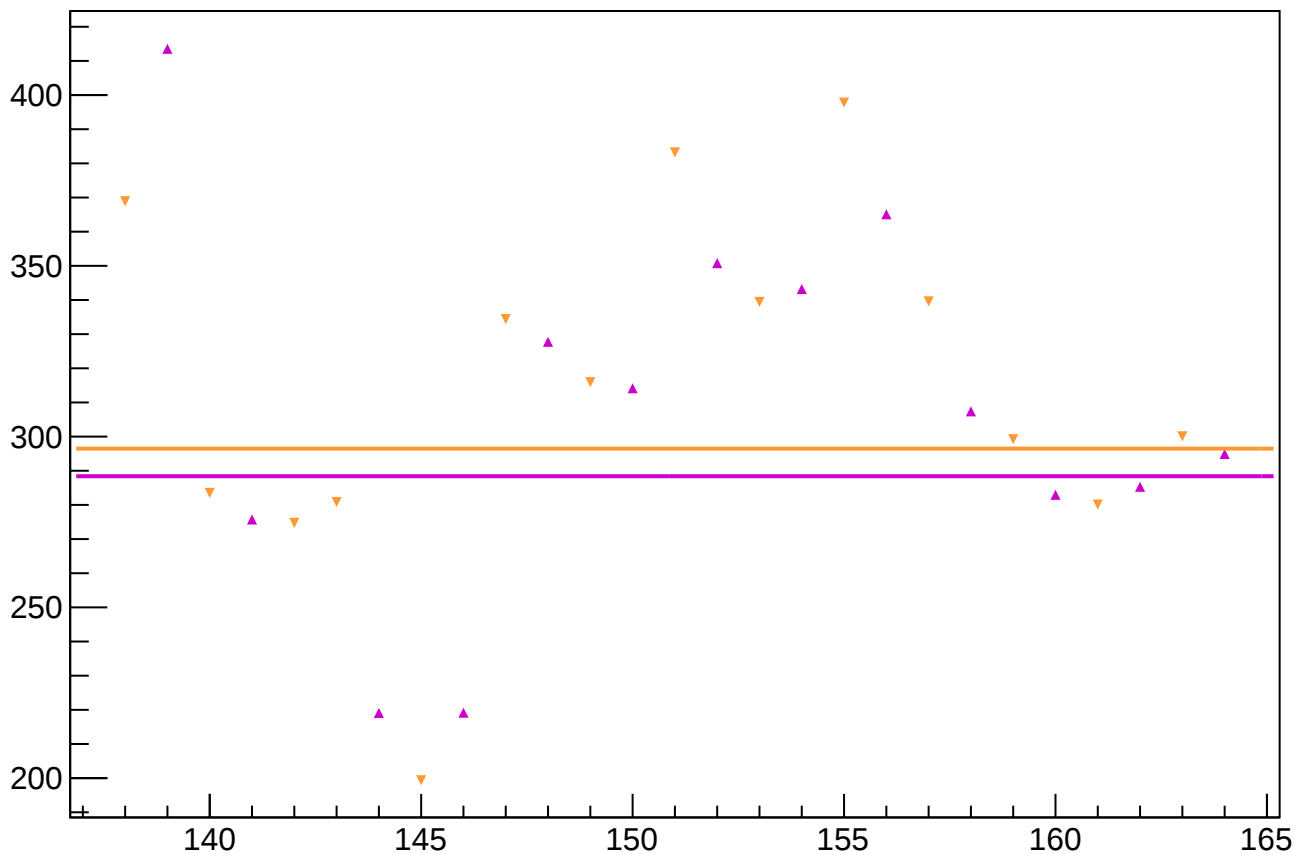
Left In: 6.518+/-91.263  $\chi^2/\text{NDF}$ : 8.4/12

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

All: 253.329+/-64.988  $\chi^2/\text{NDF}$ : 49.1/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 296.492+/-0.065  $\chi^2/\text{NDF}$ : 693832.0/13

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

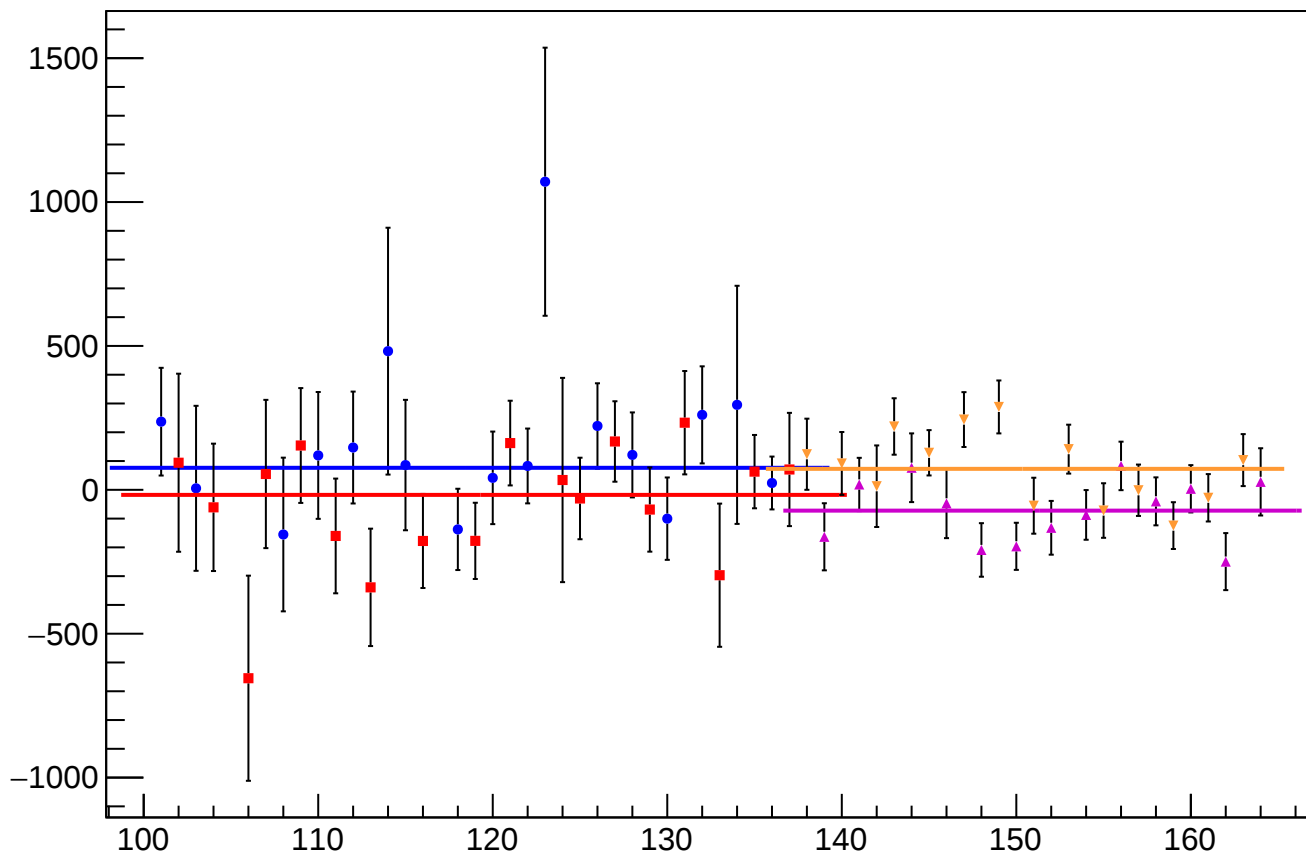
Left In: 288.397+/-0.065  $\chi^2/\text{NDF}$ : 679277.9/12

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

All: 292.387+/-0.046  $\chi^2/\text{NDF}$ : 1380866.2/26

- 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  $\chi^2/\text{NDF}$ : 13.9/16

Left Out: 72.877 $\pm$ 25.040  $\chi^2/\text{NDF}$ : 24.7/13

Right Out: -17.605 $\pm$ 42.297  $\chi^2/\text{NDF}$ : 16.8/17

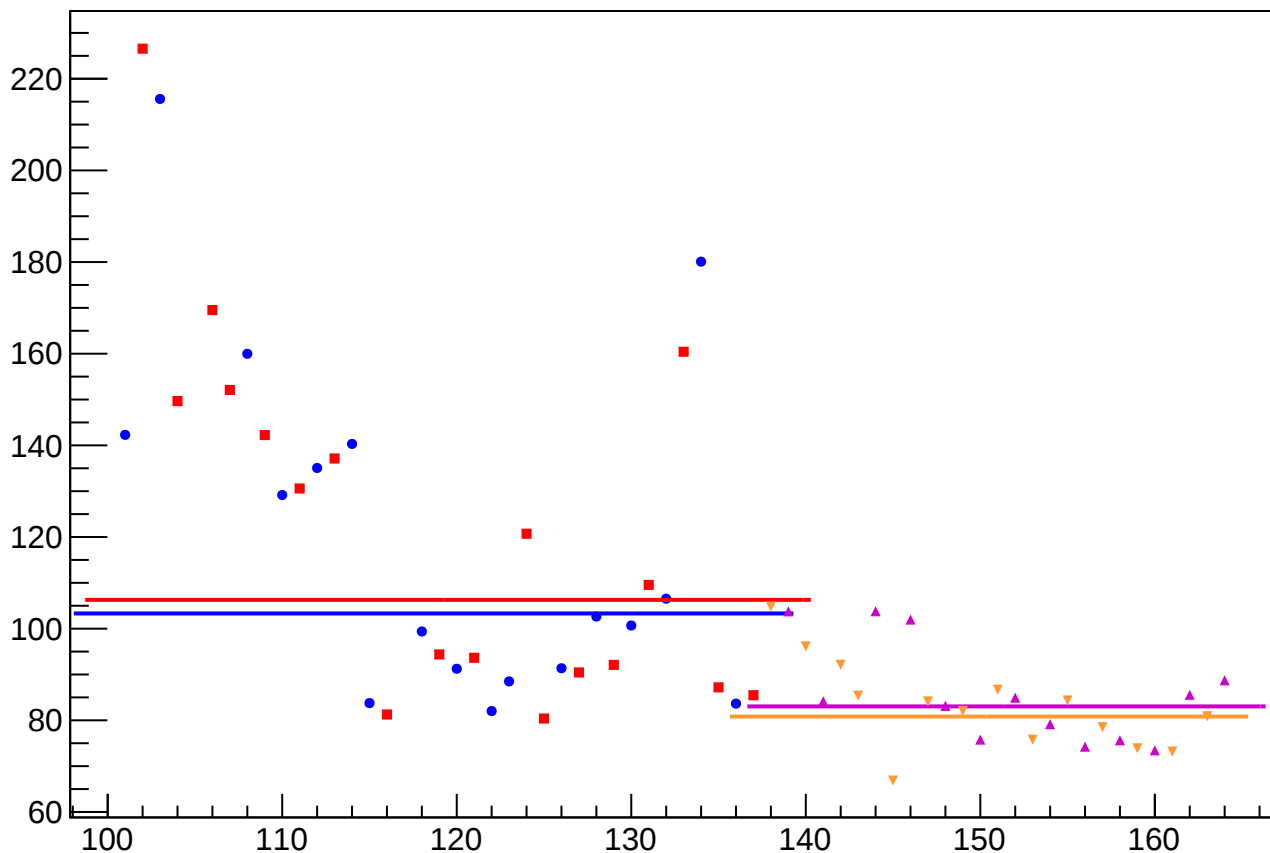
Left In: -72.304 $\pm$ 26.259  $\chi^2/\text{NDF}$ : 16.4/12

+ sign 73.843 $\pm$ 21.448  $\chi^2/\text{NDF}$ : 38.6/30

All: 10.956 $\pm$ 15.462  $\chi^2/\text{NDF}$ : 91.0/61

- sign -57.087 $\pm$ 22.310  $\chi^2/\text{NDF}$ : 34.4/30

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 80.821 $\pm$ 0.018  $\chi^2$ /NDF: 247480.4/13

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

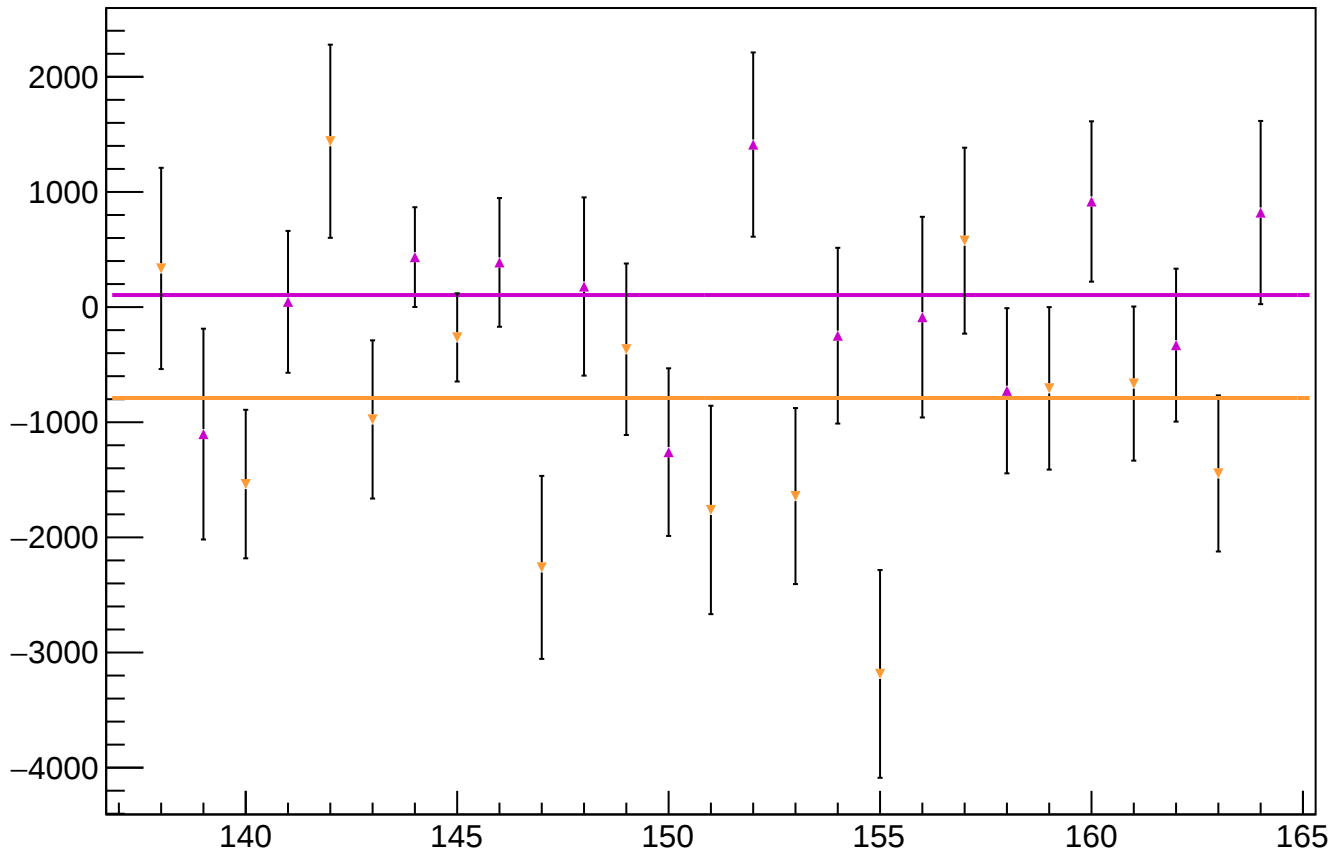
Left In: 83.037 $\pm$ 0.019  $\chi^2$ /NDF: 264626.0/12

+ sign 86.813 $\pm$ 0.015  $\chi^2$ /NDF: 1515281.2/30

All: 88.106 $\pm$ 0.011  $\chi^2$ /NDF: 3232000.2/61

- sign 89.506 $\pm$ 0.016  $\chi^2$ /NDF: 1701575.3/30

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



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

Left Out: -789.444+/-183.915  $\chi^2/\text{NDF}$ : 29.1/13

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

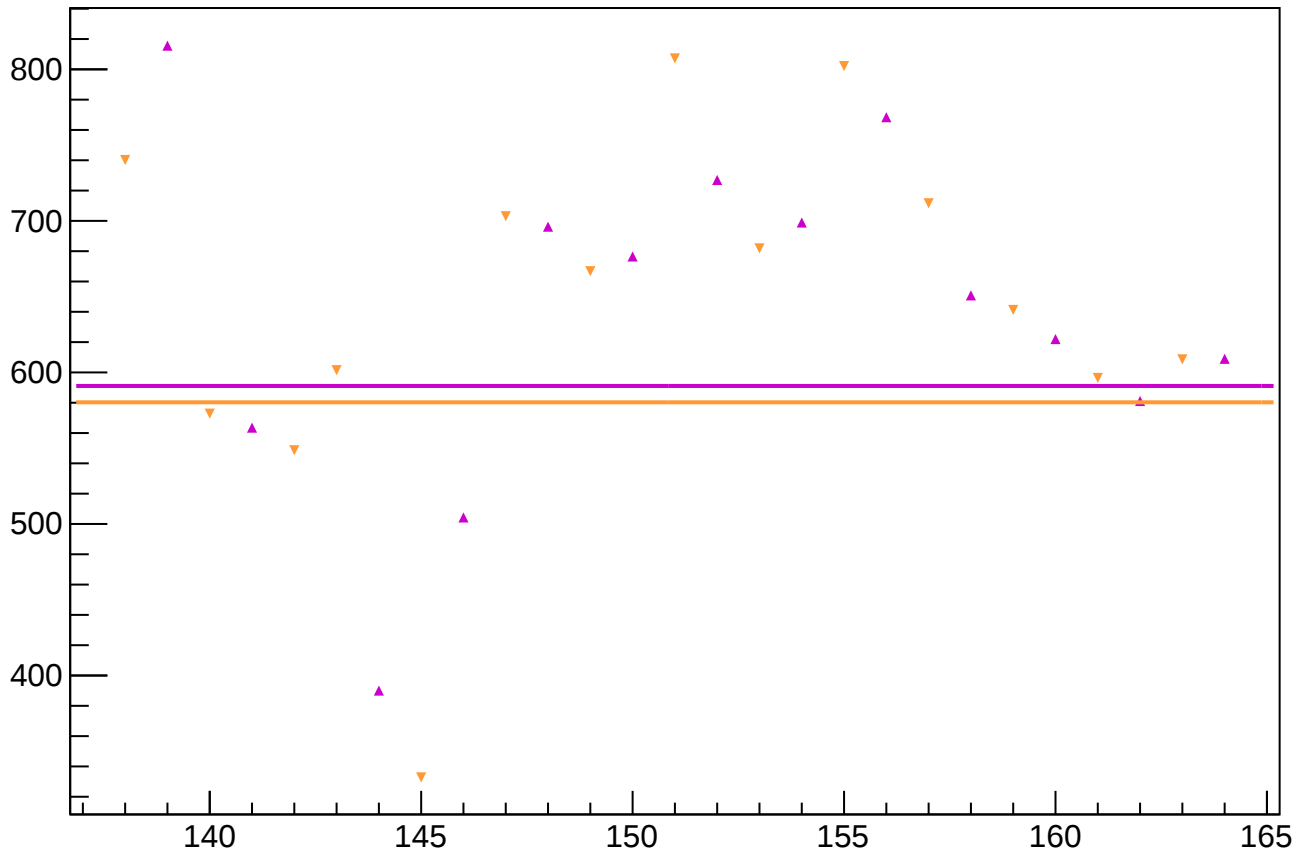
Left In: 104.775+/-187.765  $\chi^2/\text{NDF}$ : 13.0/12

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

All: -351.596+/-131.388  $\chi^2/\text{NDF}$ : 53.6/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 580.285+/-0.130  $\chi^2/\text{NDF}$ :1335991.3/13

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

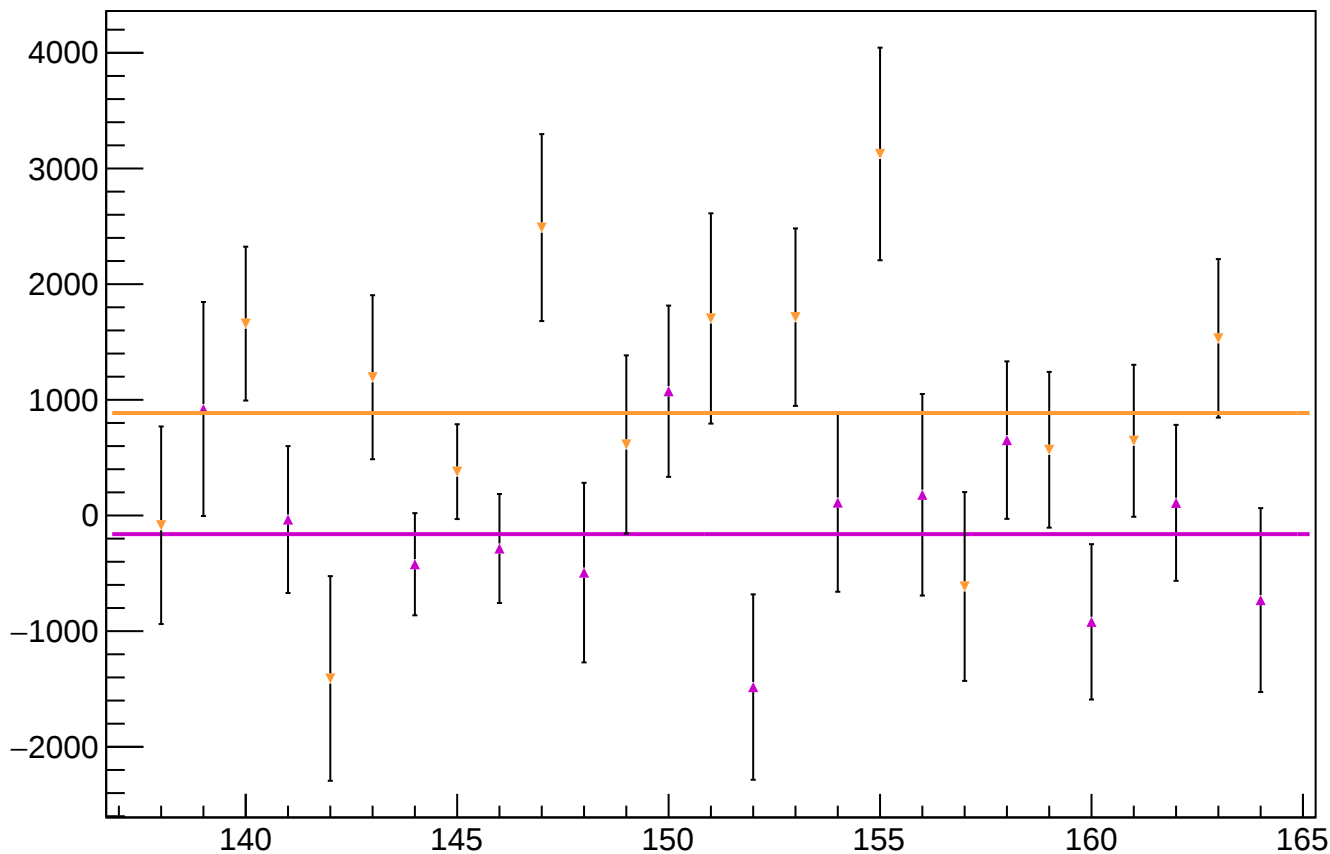
Left In: 591.068+/-0.133  $\chi^2/\text{NDF}$ :867504.0/12

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

All: 585.565+/-0.093  $\chi^2/\text{NDF}$ : 2206861.9/26

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

# asym\_sam\_3726\_avg\_mean vs Slug



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

Left Out: 885.943+/-187.941  $\chi^2/\text{NDF}$ : 27.7/13

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

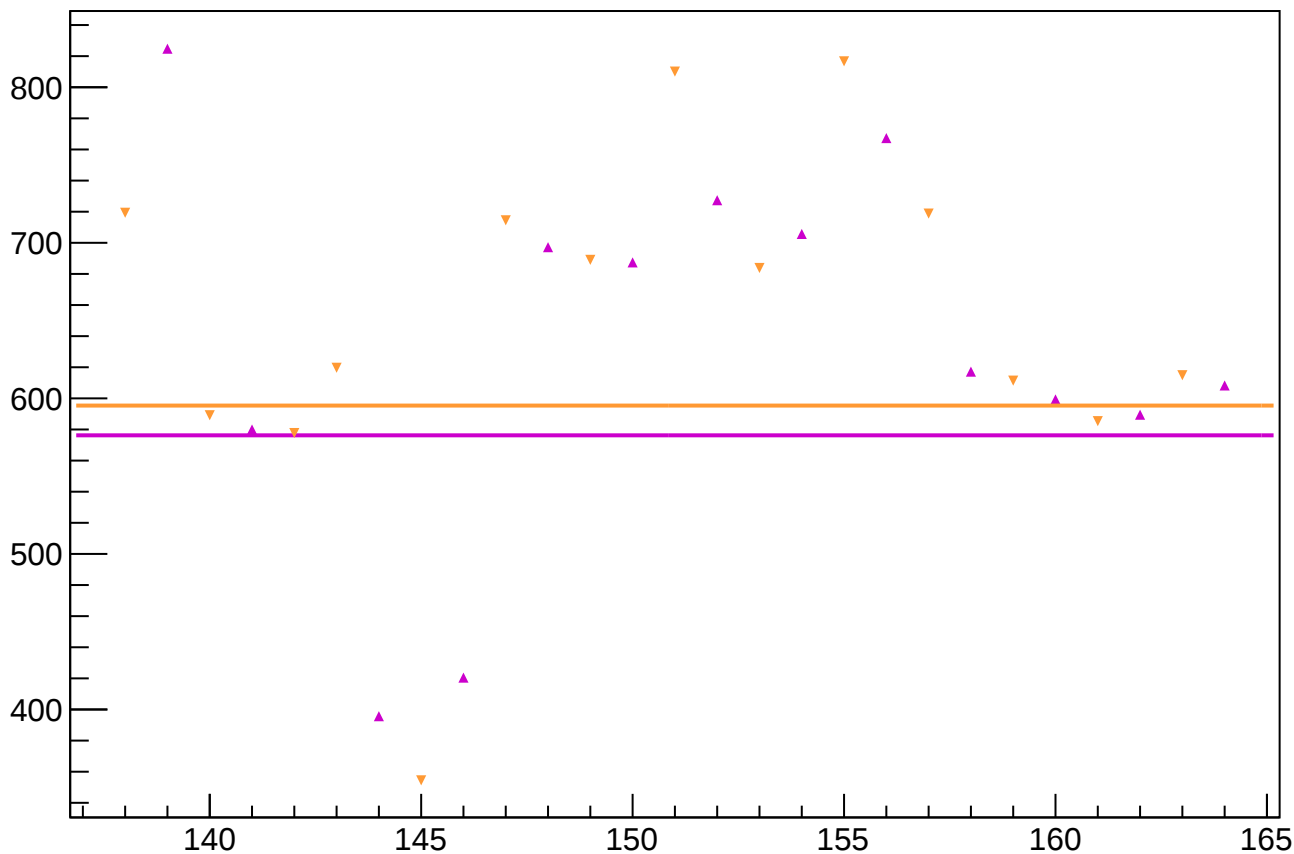
Left In: -161.199+/-184.195  $\chi^2/\text{NDF}$ : 11.2/12

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

All: 351.832+/-131.550  $\chi^2/\text{NDF}$ : 54.7/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 595.370+/-0.133  $\chi^2/\text{NDF}$ :1112087.4/13

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

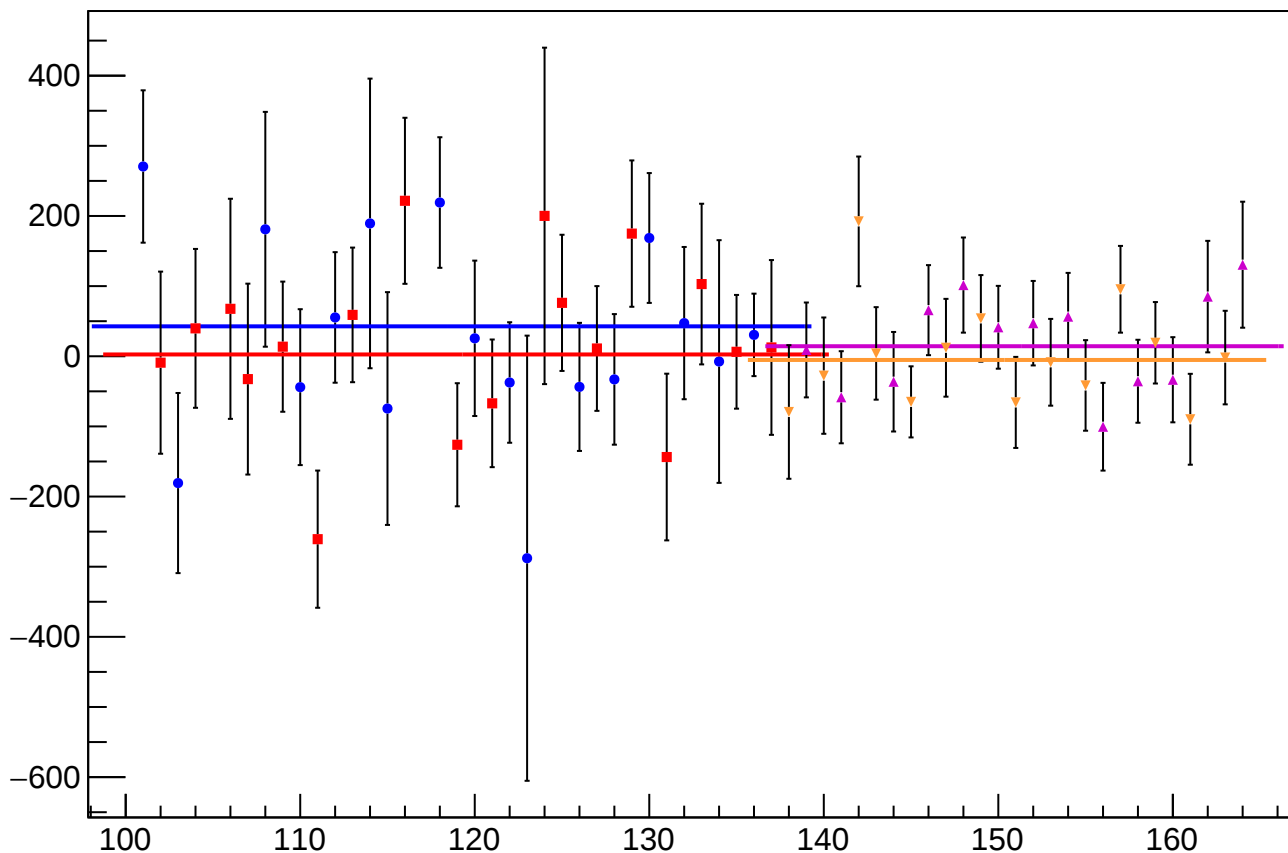
Left In: 576.241+/-0.130  $\chi^2/\text{NDF}$ :1028196.8/12

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

All: 585.613+/-0.093  $\chi^2/\text{NDF}$ : 2150852.3/26

- 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  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: -5.275 $\pm$ 17.622  $\chi^2/\text{NDF}$ :13.4/13

Right Out: 2.576 $\pm$ 25.088  $\chi^2/\text{NDF}$ : 20.4/17

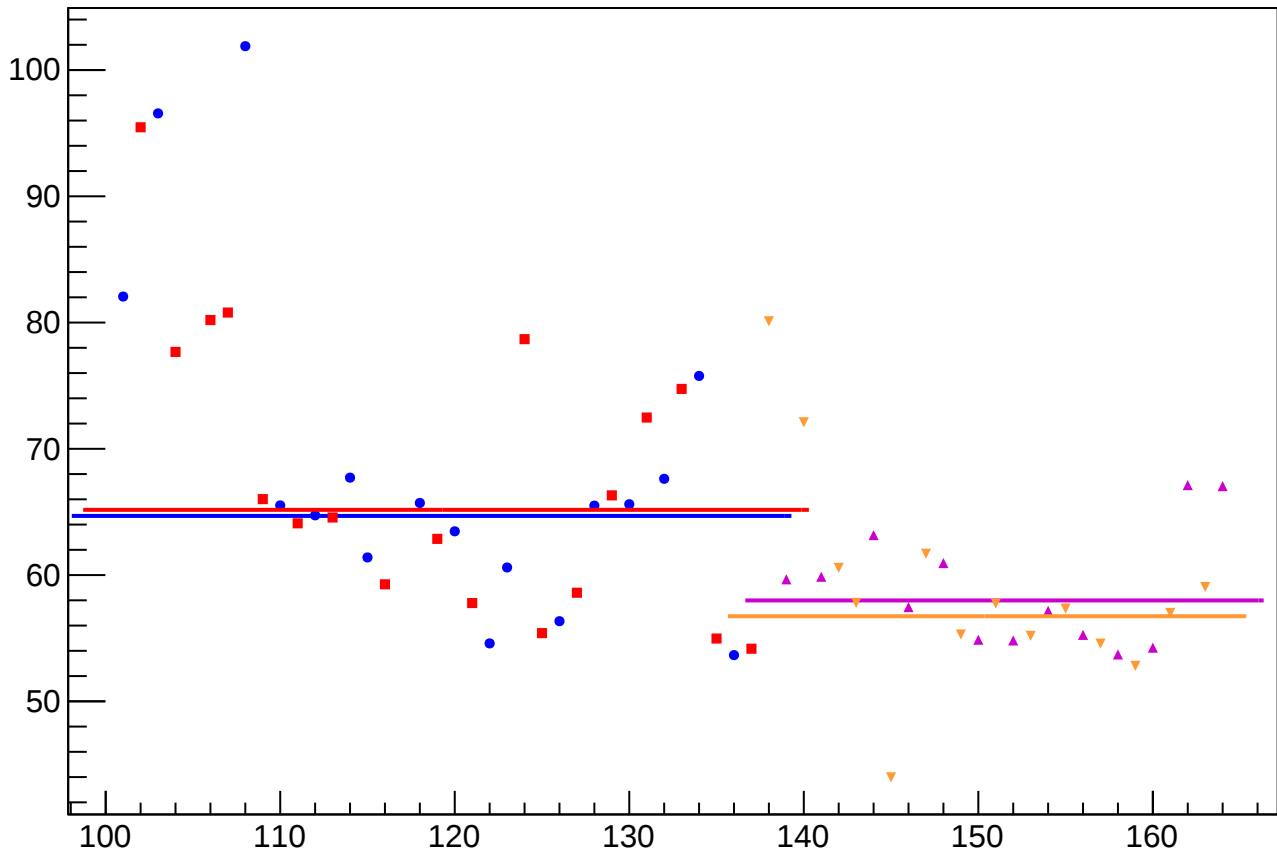
Left In: 14.307 $\pm$ 18.184  $\chi^2/\text{NDF}$ :12.2/12

+ sign 10.228 $\pm$ 14.495  $\chi^2/\text{NDF}$ : 34.6/30

All: 10.247 $\pm$ 10.329  $\chi^2/\text{NDF}$ : 67.3/61

- sign 10.267 $\pm$ 14.723  $\chi^2/\text{NDF}$ : 32.7/30

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 64.685 $\pm$ 0.018  $\chi^2$ /NDF: 400187.1/16

Left Out: 56.741 $\pm$ 0.012  $\chi^2$ /NDF: 346932.1/13

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

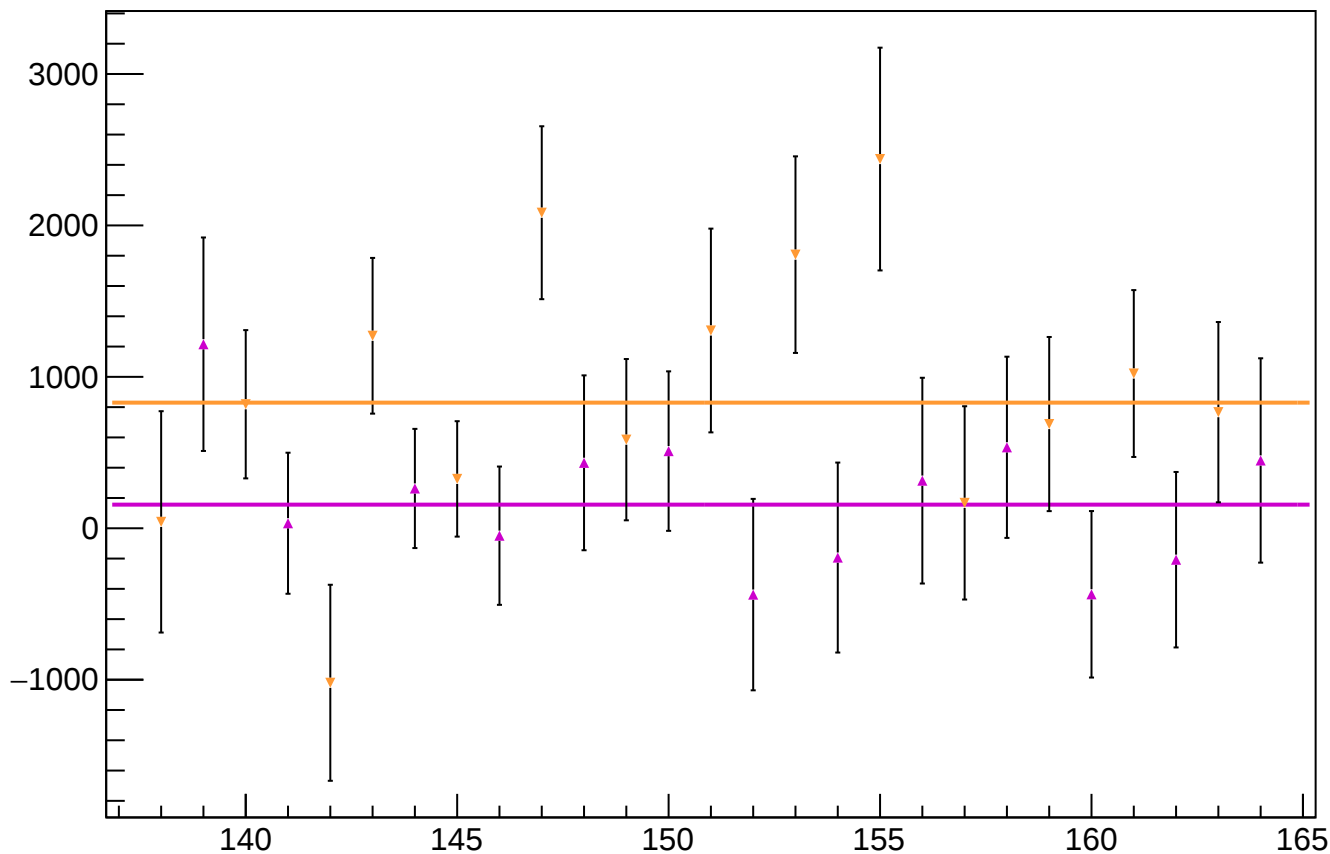
Left In: 57.991 $\pm$ 0.013  $\chi^2$ /NDF: 97475.5/12

+ sign 59.311 $\pm$ 0.010  $\chi^2$ /NDF: 878607.2/30

All: 59.877 $\pm$ 0.007  $\chi^2$ /NDF: 1394172.7/61

- sign 60.462 $\pm$ 0.010  $\chi^2$ /NDF: 509349.8/30

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



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

Left Out: 829.743+/-151.244  $\chi^2/\text{NDF}$ : 25.7/13

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

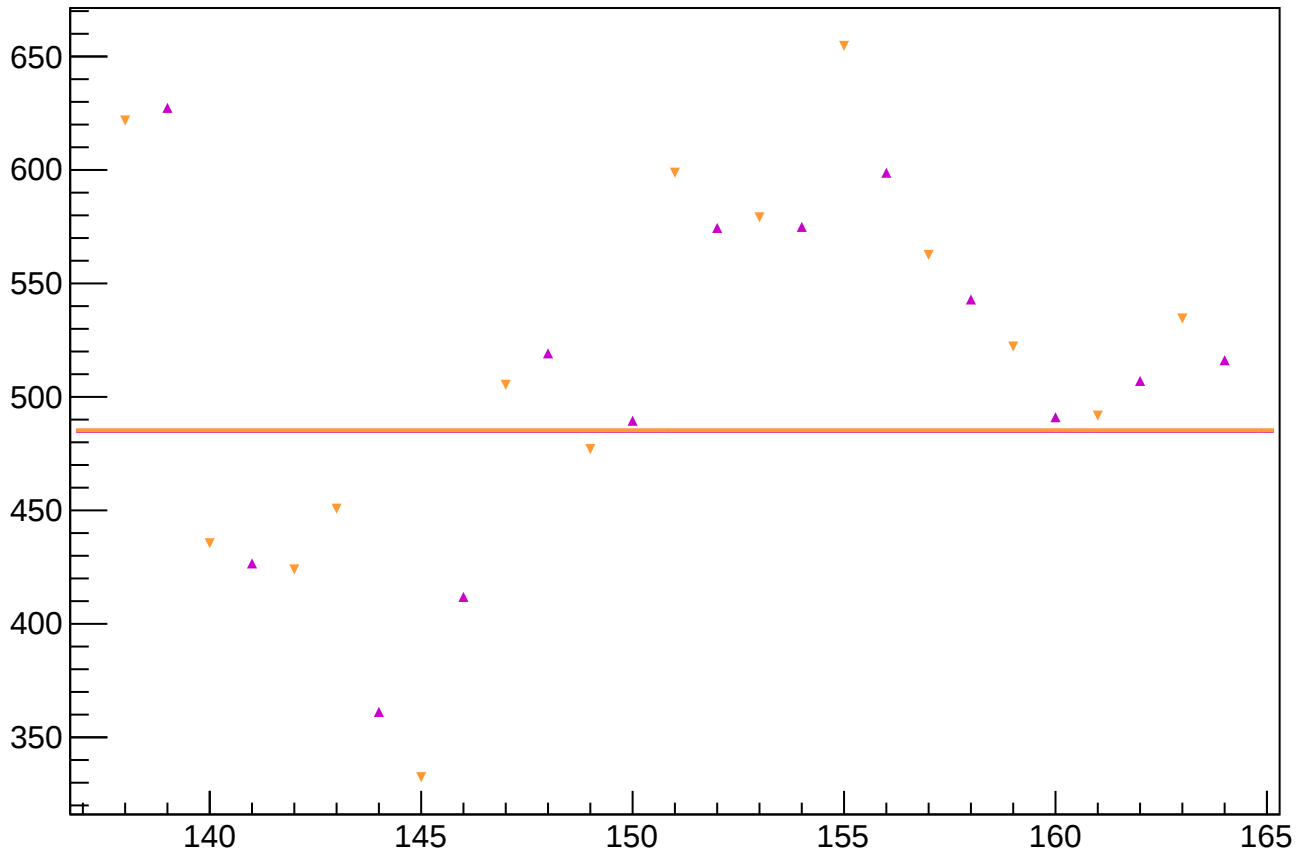
Left In: 156.094+/-152.554  $\chi^2/\text{NDF}$ : 6.7/12

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

All: 495.824+/-107.406  $\chi^2/\text{NDF}$ : 42.2/26

- 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: 485.265+/-0.107  $\chi^2/\text{NDF}$ : 698409.8/13

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

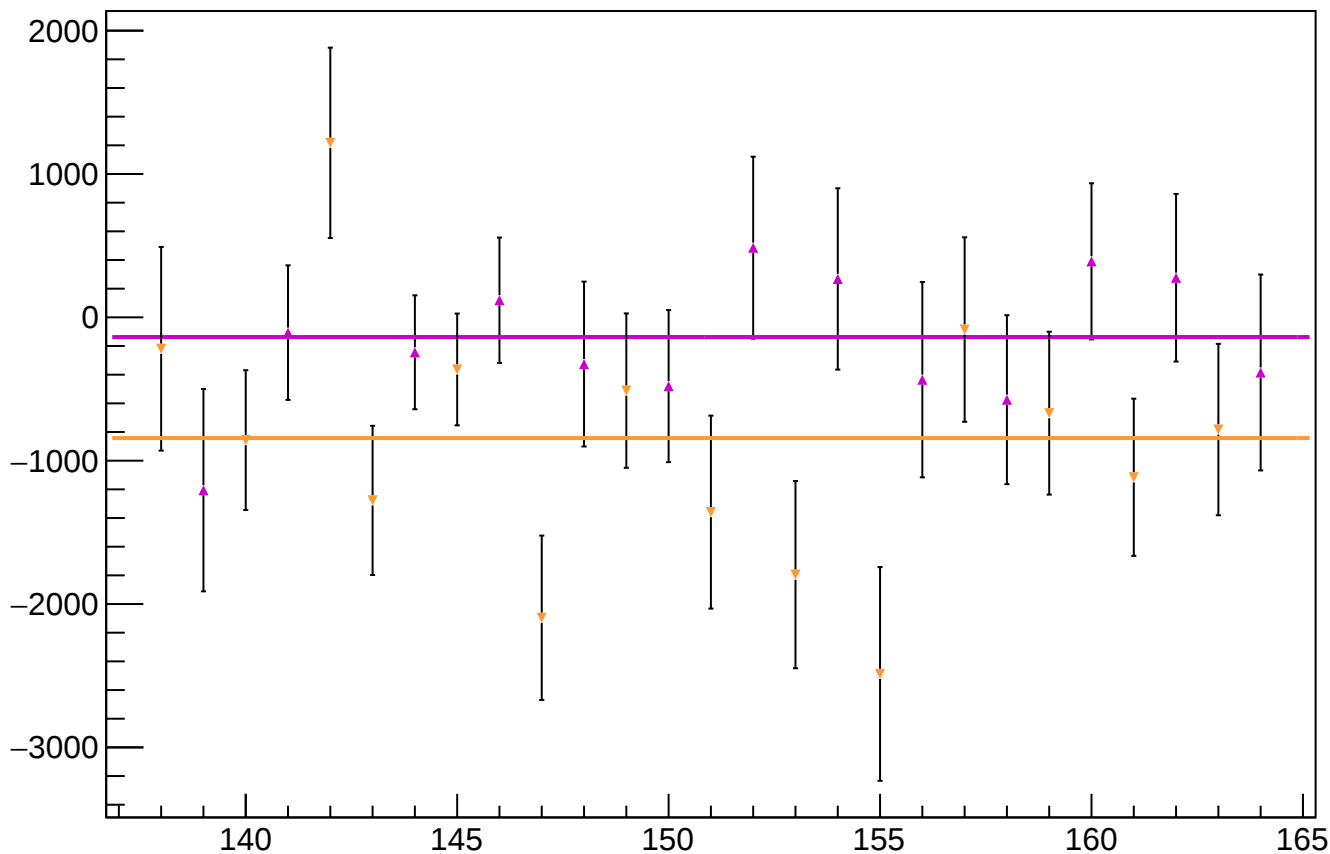
Left In: 485.026+/-0.108  $\chi^2/\text{NDF}$ : 532762.5/12

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

All: 485.146+/-0.076  $\chi^2/\text{NDF}$ : 1231174.8/26

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

# asym\_sam\_15\_48\_dd\_mean vs Slug



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

Left Out: -842.180+/-152.147  $\chi^2/\text{NDF}$ :27.1/13

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

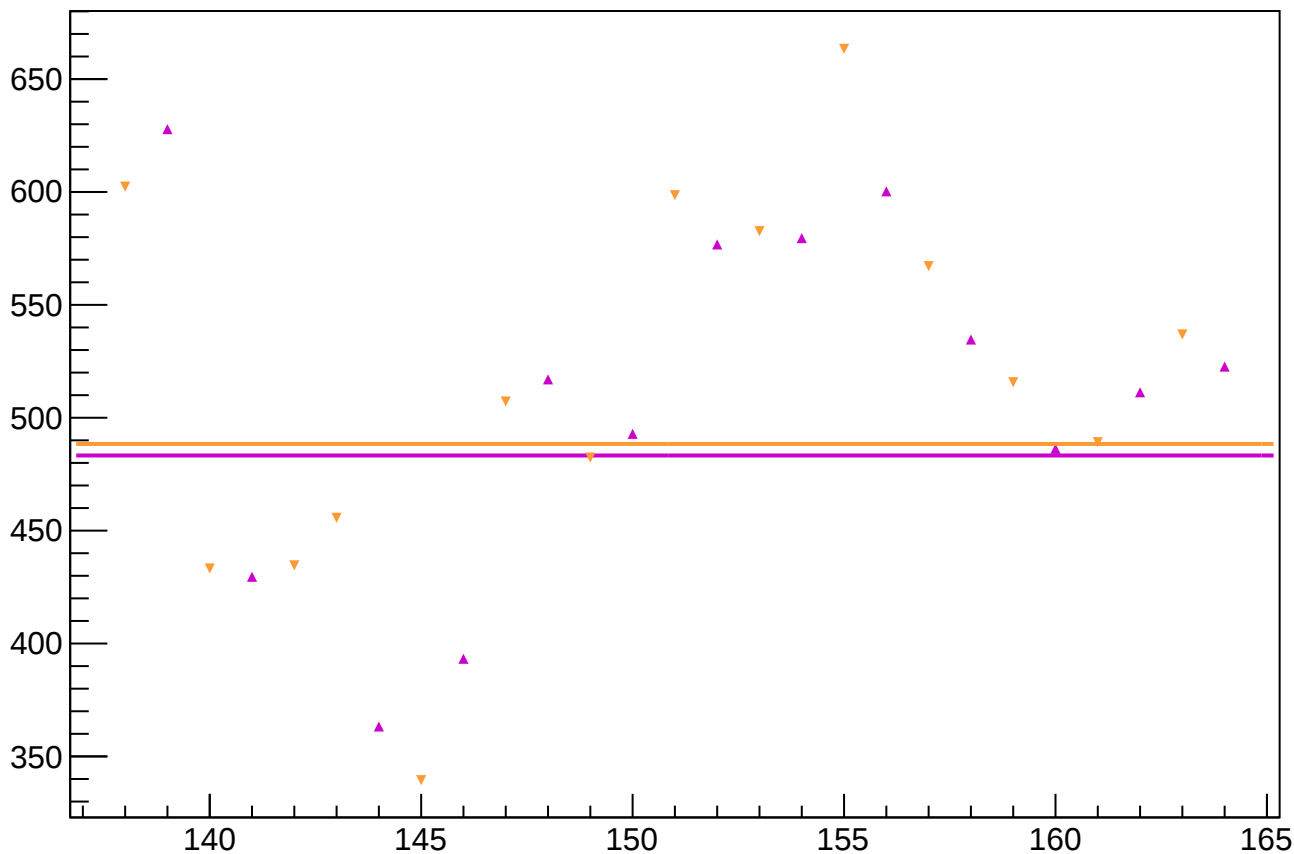
Left In: -137.351+/-152.240  $\chi^2/\text{NDF}$ :6.9/12

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

All: -489.983+/-107.617  $\chi^2/\text{NDF}$ : 44.7/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 488.396+/-0.108  $\chi^2/\text{NDF}$ : 645378.1/13

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

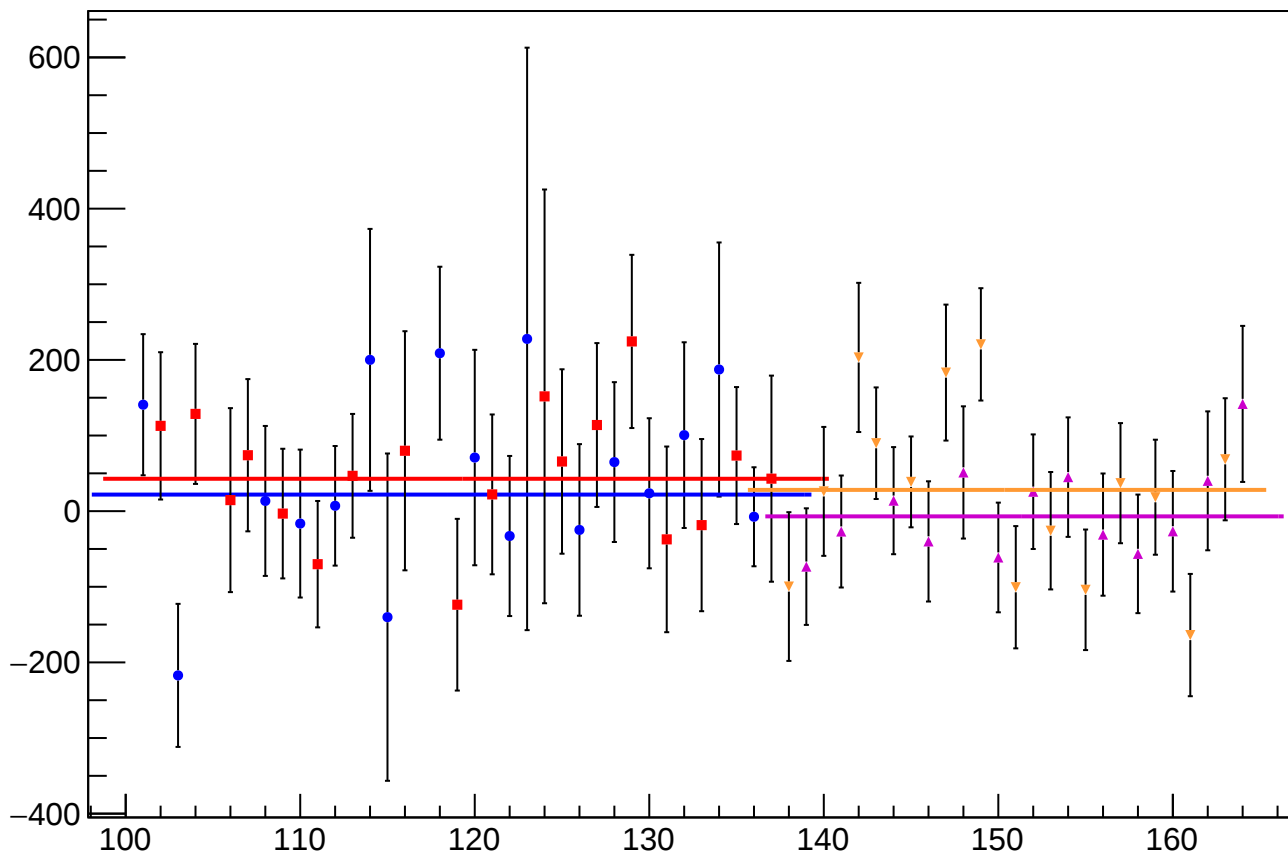
Left In: 483.290+/-0.108  $\chi^2/\text{NDF}$ : 560184.5/12

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

All: 485.845+/-0.076  $\chi^2/\text{NDF}$ : 1206688.3/26

- 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  $\chi^2$ /NDF: 15.1/16

Left Out: 28.109 $\pm$ 21.206  $\chi^2$ /NDF: 26.9/13

Right Out: 42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

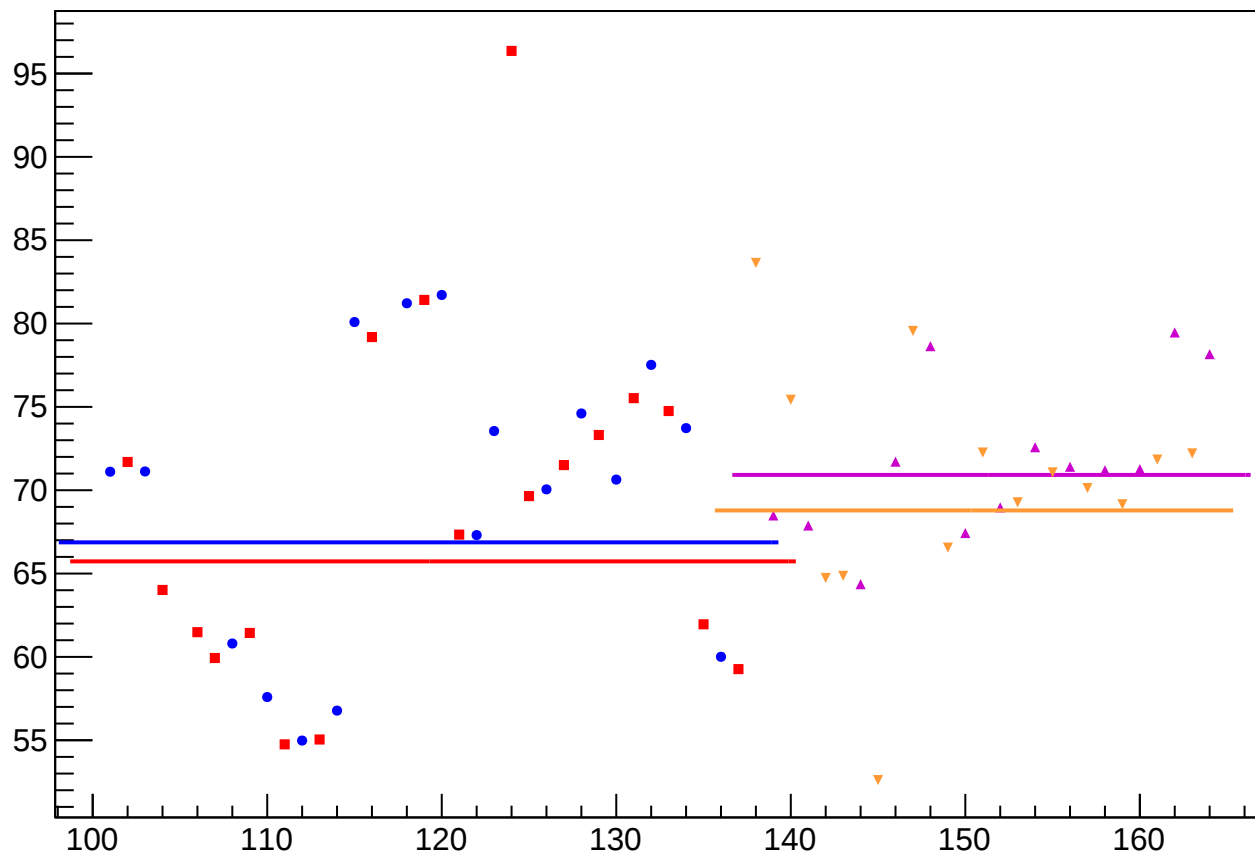
Left In: -6.900 $\pm$ 22.090  $\chi^2$ /NDF: 5.6/12

+ sign 25.638 $\pm$ 16.447  $\chi^2$ /NDF: 42.1/30

All: 20.257 $\pm$ 11.679  $\chi^2$ /NDF: 59.9/61

- sign 14.784 $\pm$ 16.587  $\chi^2$ /NDF: 17.6/30

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 66.872 $\pm$ 0.018  $\chi^2$ /NDF: 202515.6/16

Left Out: 68.787 $\pm$ 0.015  $\chi^2$ /NDF: 254789.9/13

Right Out: 65.731 $\pm$ 0.018  $\chi^2$ /NDF: 218867.5/17

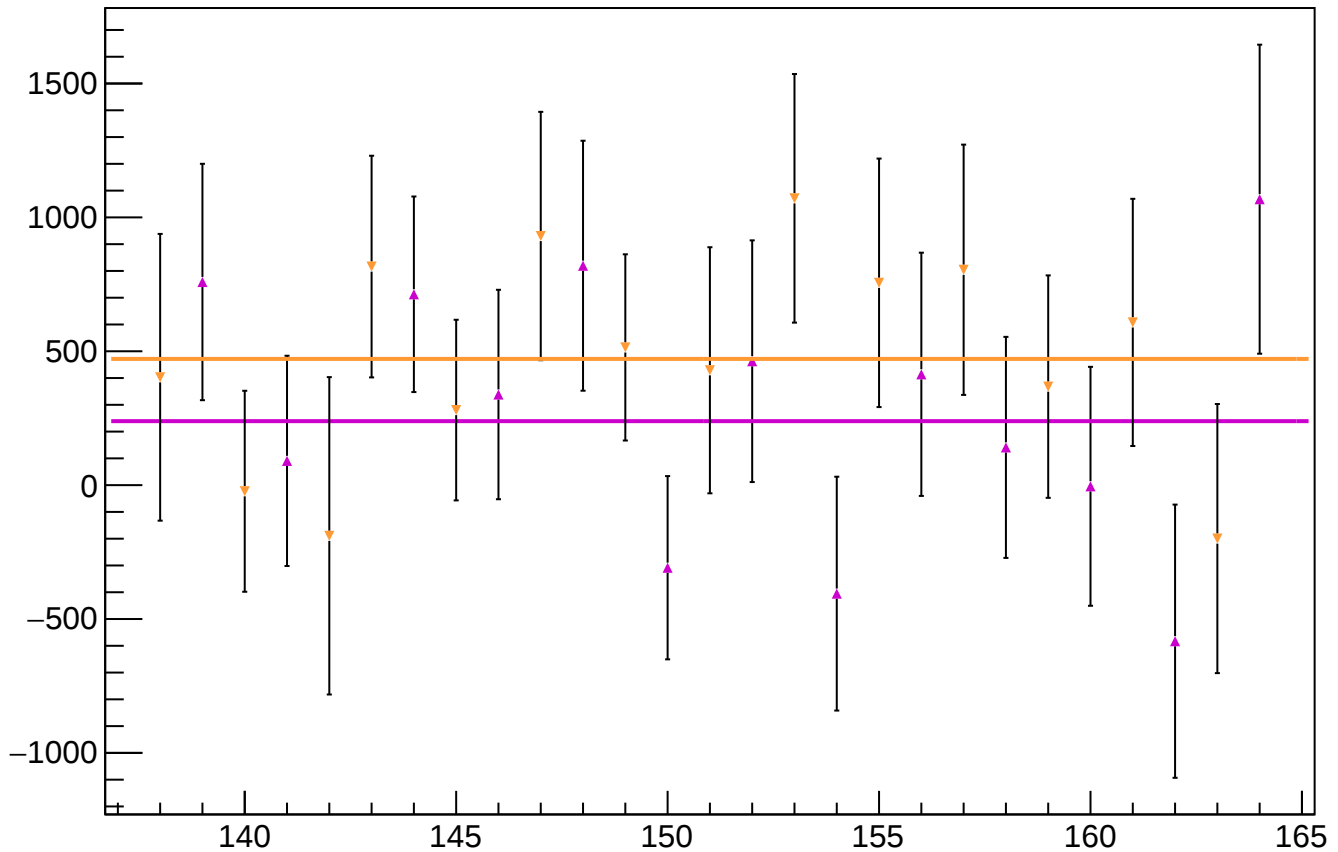
Left In: 70.918 $\pm$ 0.016  $\chi^2$ /NDF: 72437.4/12

+ sign 68.024 $\pm$ 0.012  $\chi^2$ /NDF: 463805.2/30

All: 68.337 $\pm$ 0.008  $\chi^2$ /NDF: 804682.6/61

- sign 68.656 $\pm$ 0.012  $\chi^2$ /NDF: 339415.5/30

# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



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

Left Out:  $471.453 \pm 116.230$   $\chi^2/\text{NDF}$ : 9.5/13

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

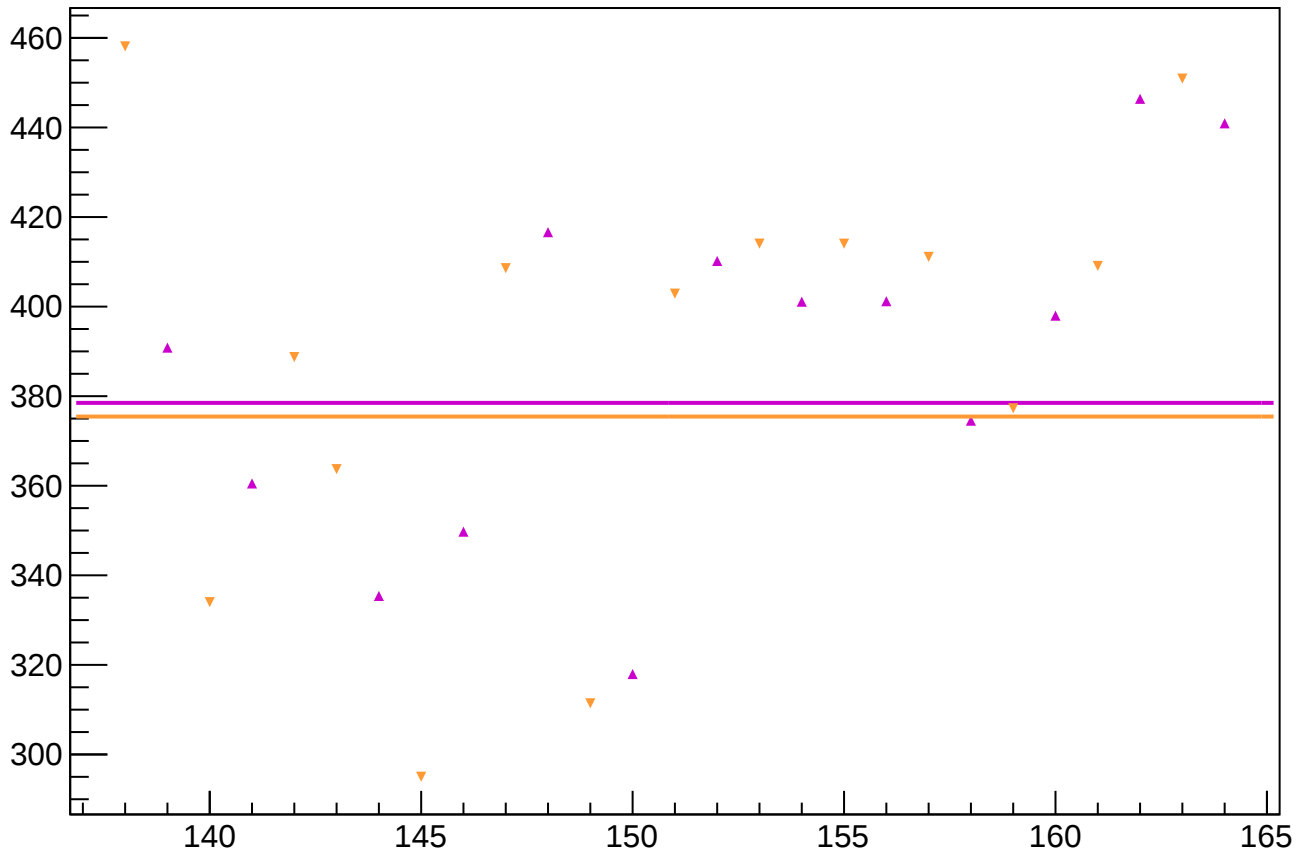
Left In:  $239.006 \pm 118.248$   $\chi^2/\text{NDF}$ : 15.0/12

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

All:  $357.230 \pm 82.891$   $\chi^2/\text{NDF}$ : 26.4/26

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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: 375.453+/-0.082  $\chi^2/\text{NDF}$ : 368596.1/13

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

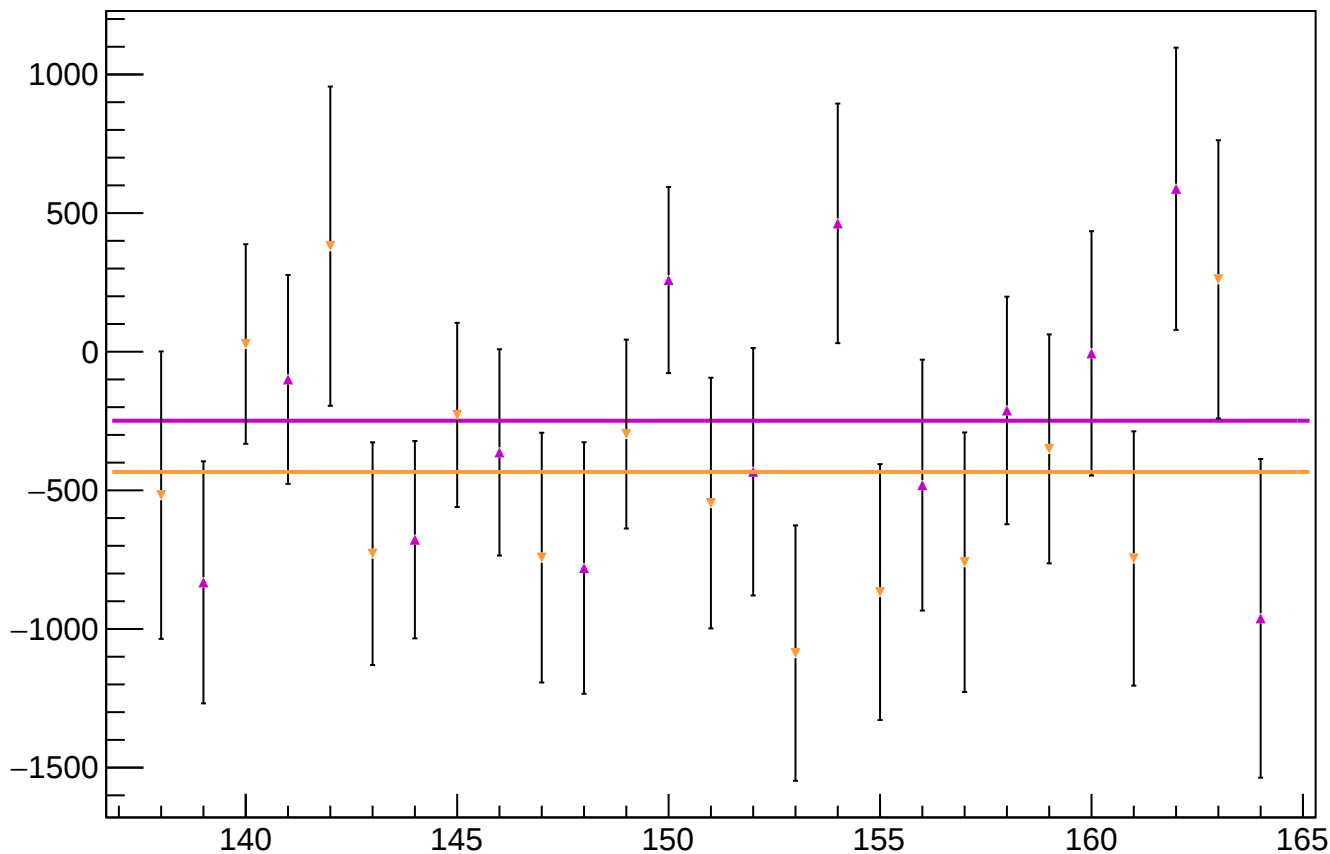
Left In: 378.505+/-0.084  $\chi^2/\text{NDF}$ : 203419.5/12

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

All: 376.953+/-0.059  $\chi^2/\text{NDF}$ : 572693.6/26

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

# asym\_sam\_37\_48\_dd\_mean vs Slug



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

Left Out: -433.526+/-114.172  $\chi^2/\text{NDF}$ : 11.1/13

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

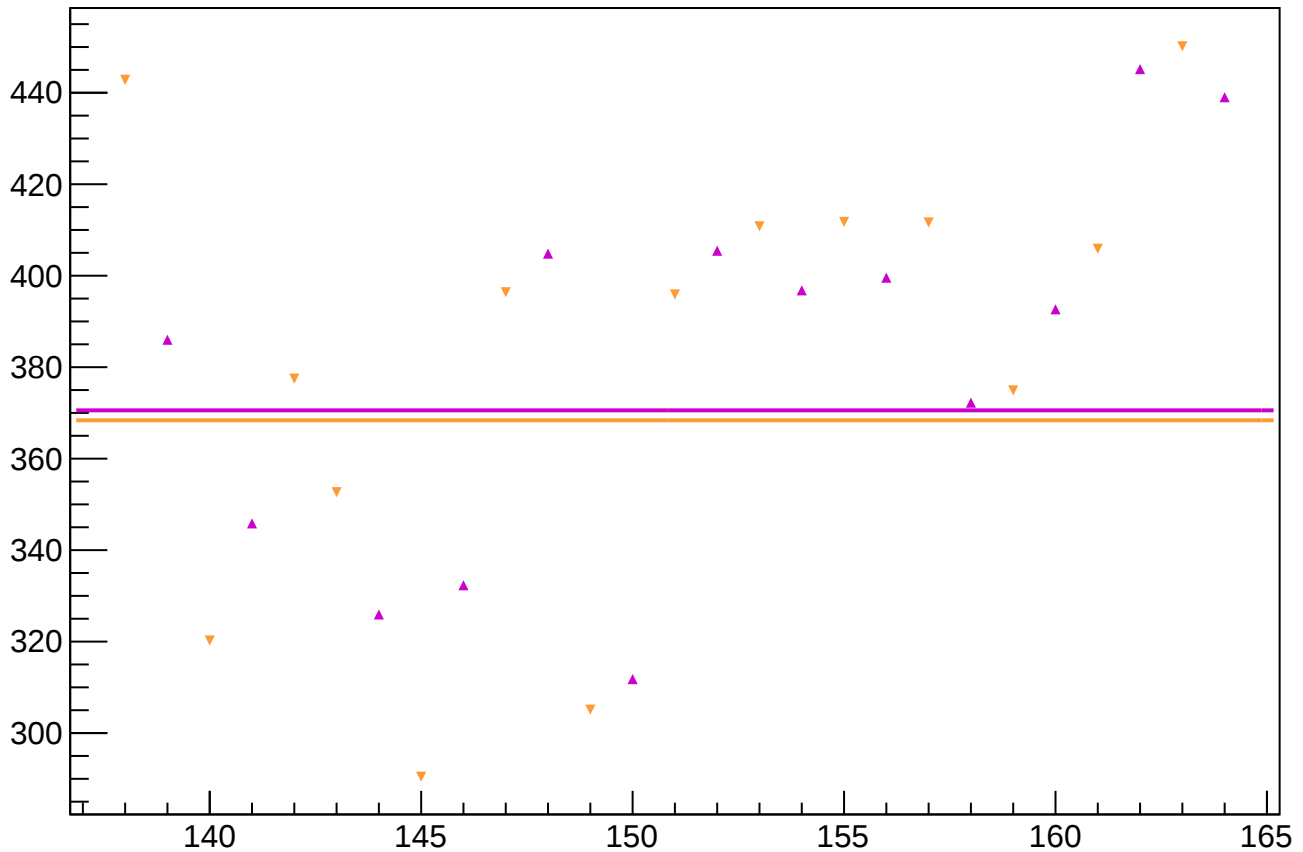
Left In: -248.921+/-115.942  $\chi^2/\text{NDF}$ : 14.8/12

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

All: -342.643+/-81.350  $\chi^2/\text{NDF}$ : 27.2/26

- sign 0.000+/-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: 368.387+/-0.081  $\chi^2/\text{NDF}$ : 393353.9/13

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

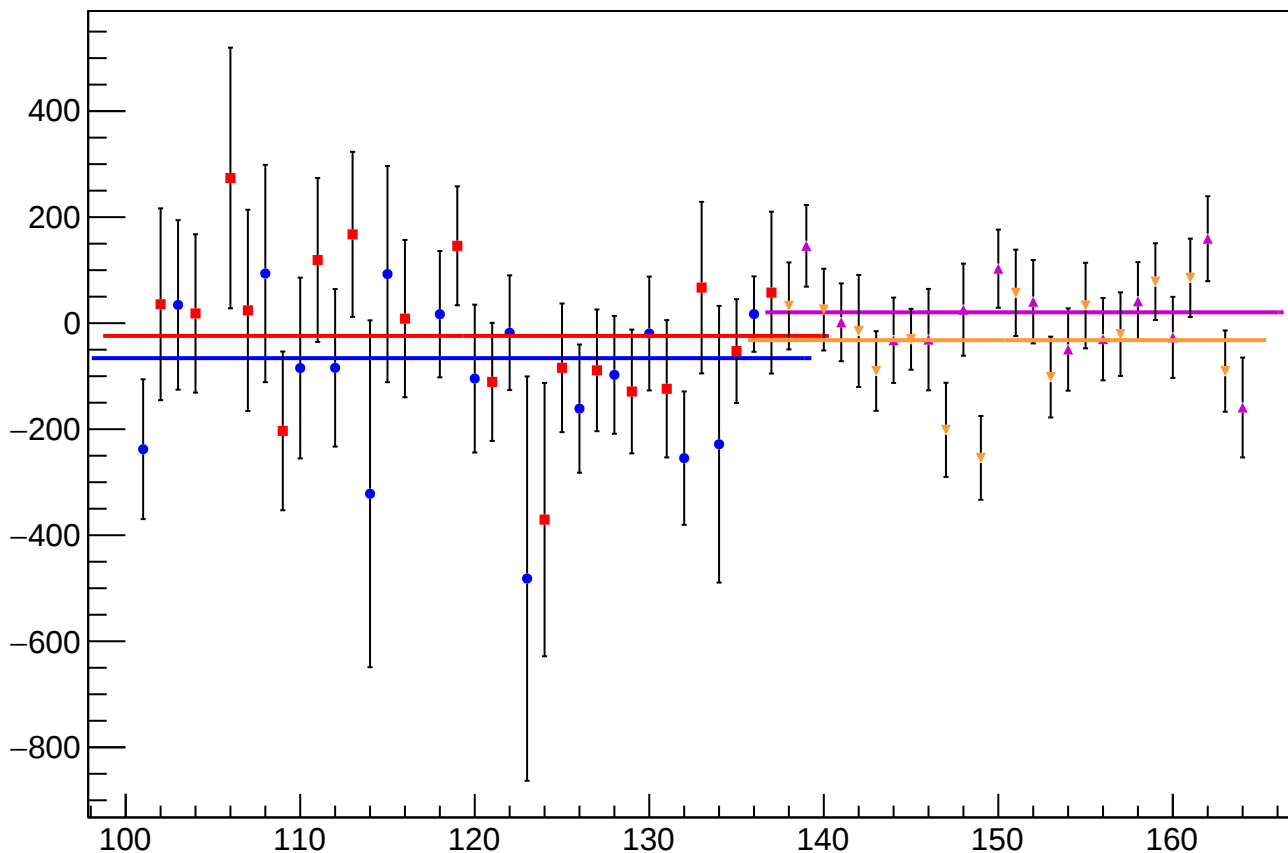
Left In: 370.560+/-0.082  $\chi^2/\text{NDF}$ : 240625.3/12

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

All: 369.457+/-0.058  $\chi^2/\text{NDF}$ : 634335.8/26

- 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:  $-32.021 \pm 20.608$   $\chi^2/\text{NDF}$ : 21.5/13

Right Out:  $-23.979 \pm 32.790$   $\chi^2/\text{NDF}$ : 12.9/17

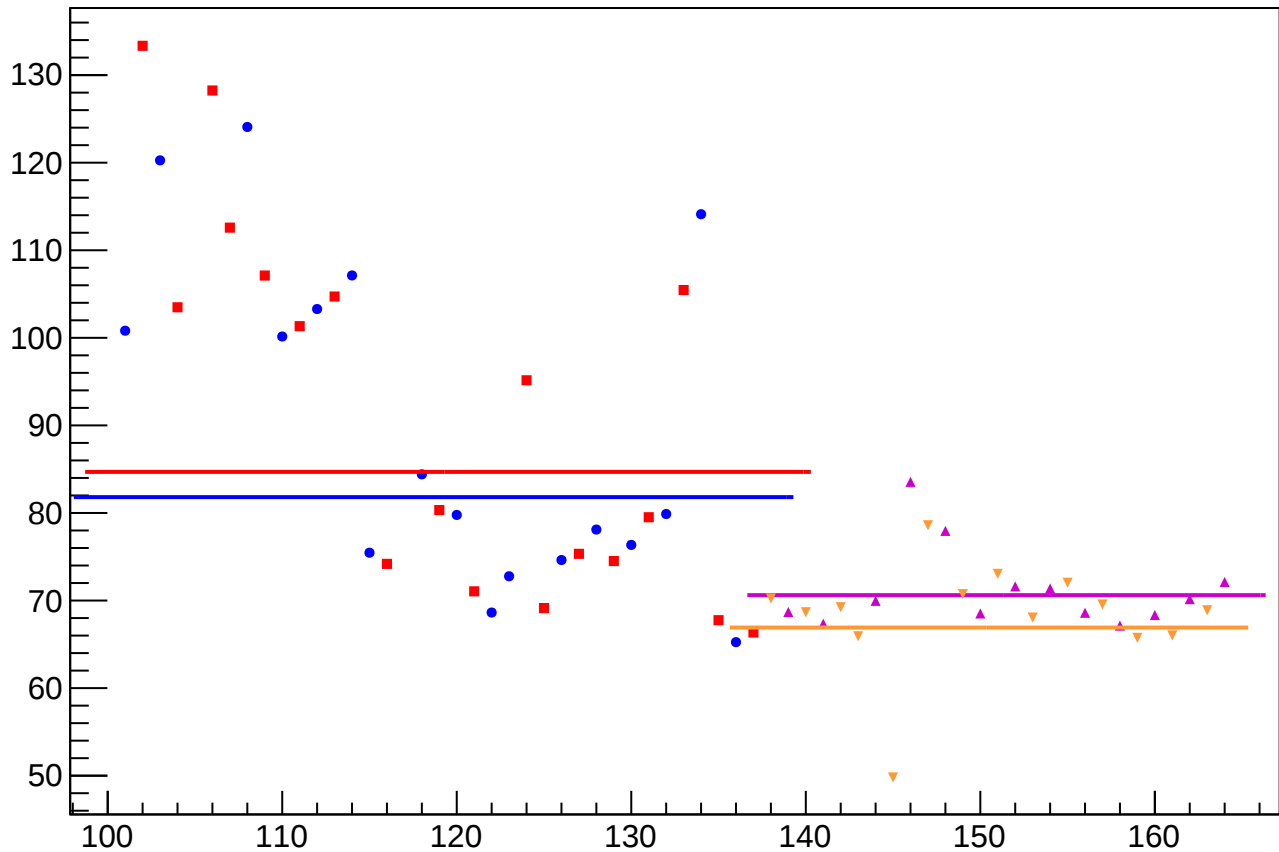
Left In:  $20.491 \pm 22.085$   $\chi^2/\text{NDF}$ : 13.1/12

+ sign  $-41.849 \pm 17.372$   $\chi^2/\text{NDF}$ : 33.0/30

All:  $-18.902 \pm 12.605$   $\chi^2/\text{NDF}$ : 64.0/61

- sign  $6.613 \pm 18.317$   $\chi^2/\text{NDF}$ : 27.3/30

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 66.917 $\pm$ 0.015  $\chi^2$ /NDF: 246516.4/13

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

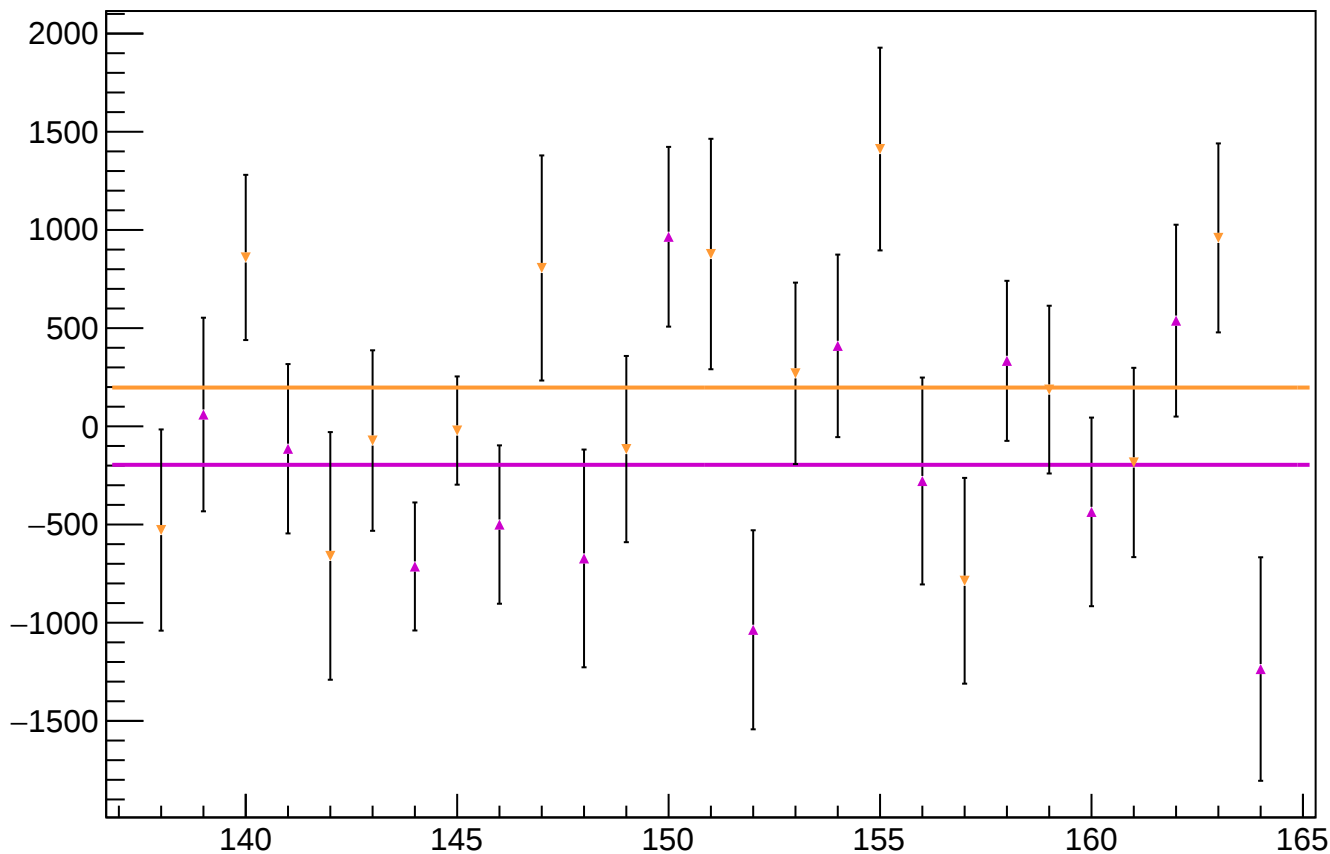
Left In: 70.617 $\pm$ 0.016  $\chi^2$ /NDF: 66406.1/12

+ sign 71.227 $\pm$ 0.012  $\chi^2$ /NDF: 1055984.7/30

All: 73.018 $\pm$ 0.009  $\chi^2$ /NDF: 2036669.8/61

- sign 75.009 $\pm$ 0.013  $\chi^2$ /NDF: 935808.3/30

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



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

Left Out: 197.487+/-122.664  $\chi^2/\text{NDF}$ : 22.4/13

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

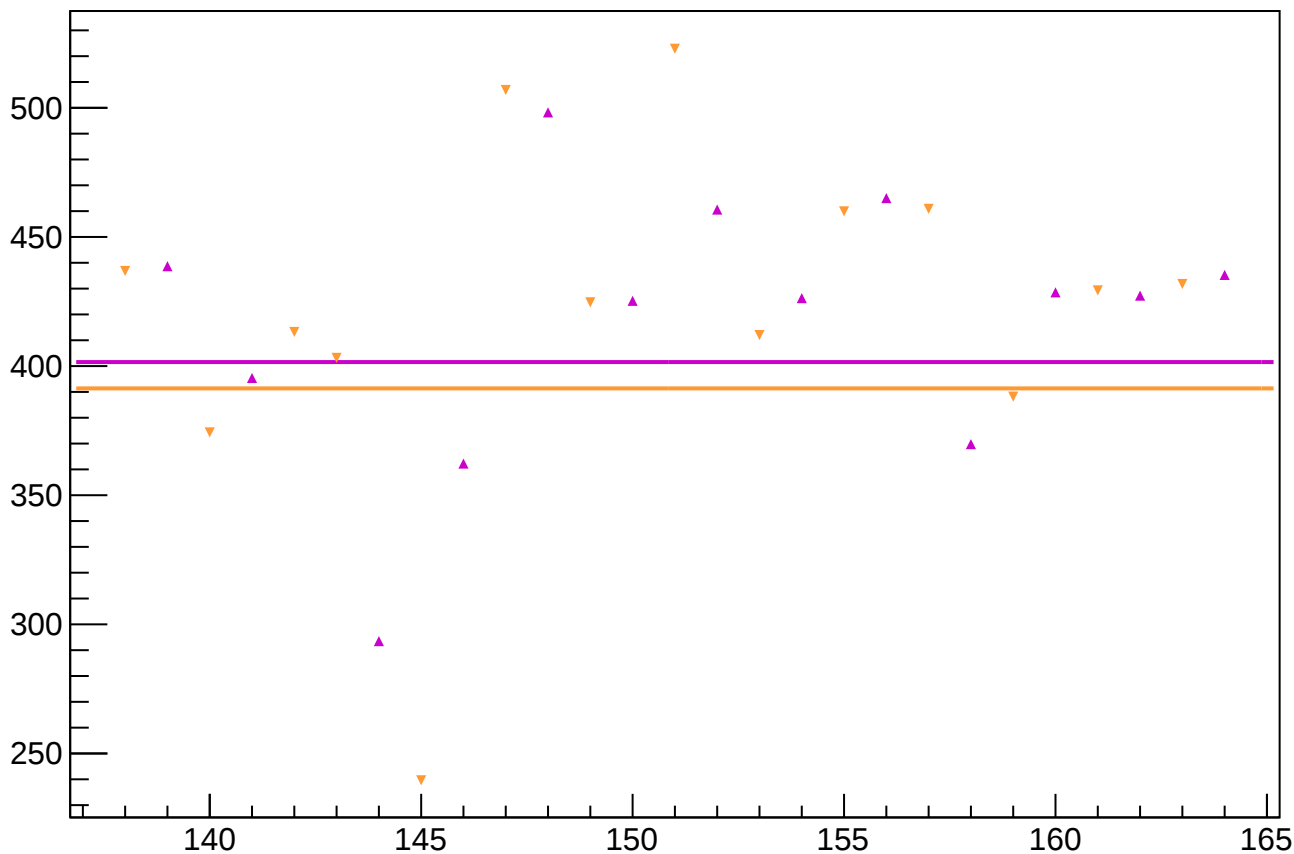
Left In: -196.022+/-126.142  $\chi^2/\text{NDF}$ : 22.6/12

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

All: 6.232+/-87.940  $\chi^2/\text{NDF}$ : 50.0/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 391.361+/-0.087  $\chi^2/\text{NDF}$ : 921923.0/13

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

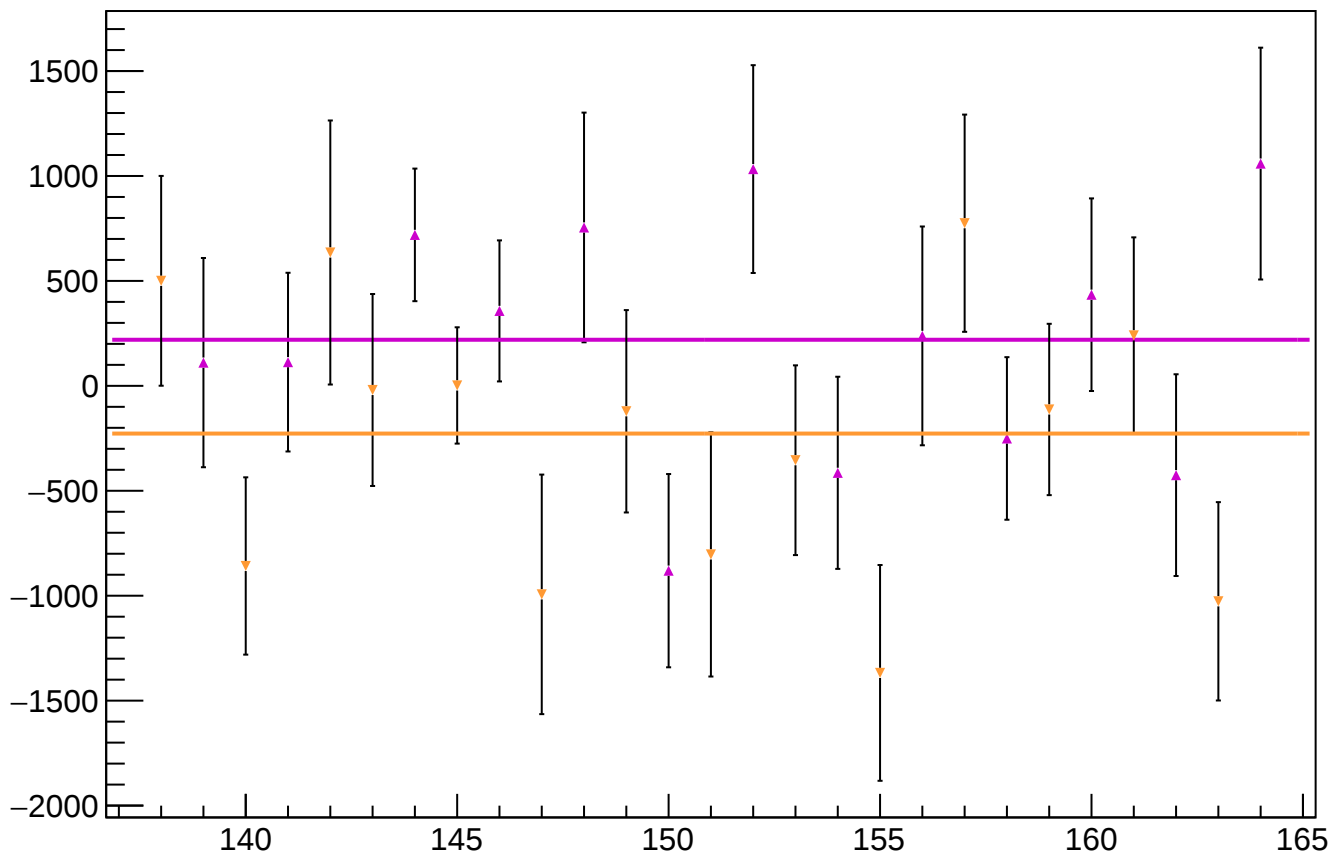
Left In: 401.555+/-0.089  $\chi^2/\text{NDF}$ : 409656.2/12

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

All: 396.315+/-0.062  $\chi^2/\text{NDF}$ : 1338292.7/26

- 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: -227.381+/-121.505  $\chi^2/\text{NDF}$ :22.6/13

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

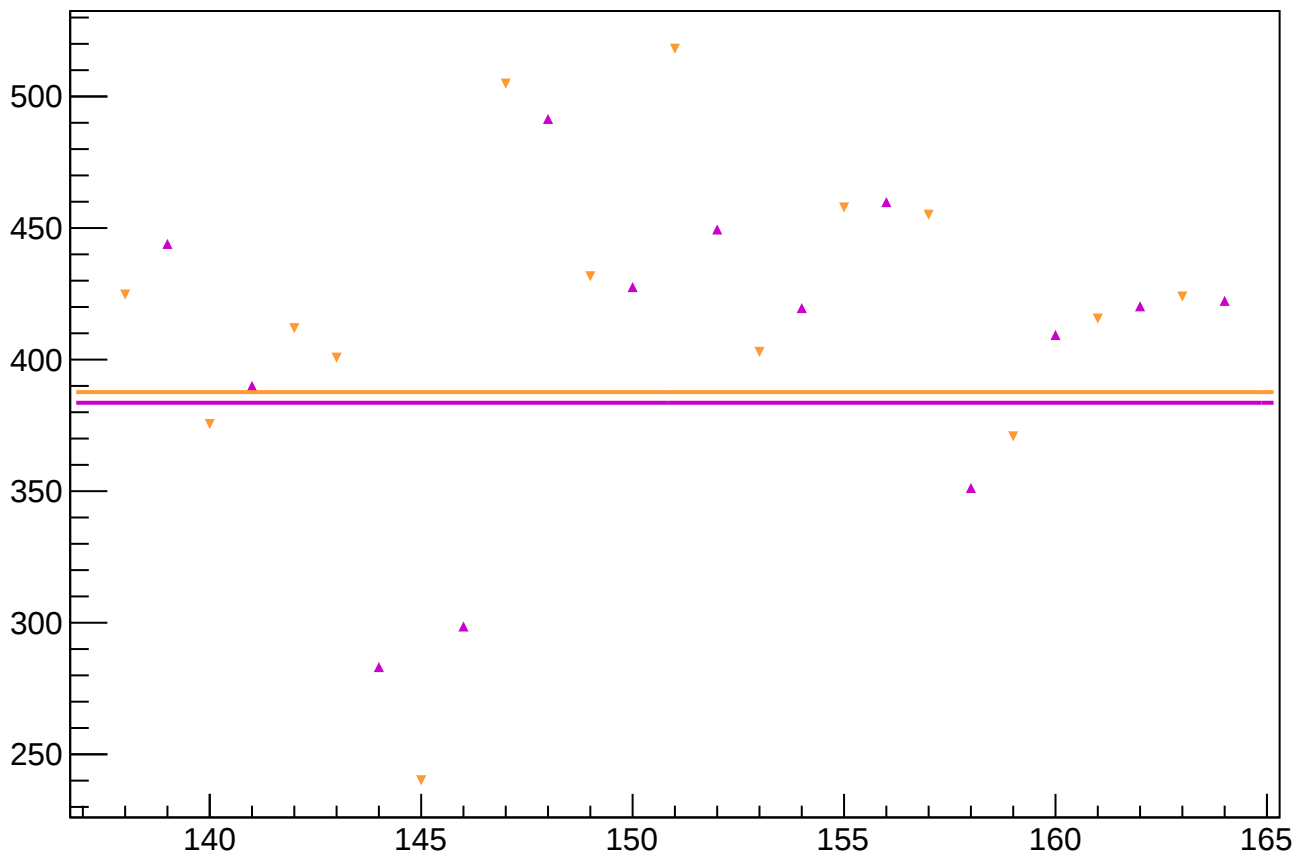
Left In: 219.619+/-121.244  $\chi^2/\text{NDF}$ :19.9/12

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

All: -3.401+/-85.825  $\chi^2/\text{NDF}$ : 49.3/26

- 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: 387.643+/-0.086  $\chi^2/\text{NDF}$ : 881496.9/13

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

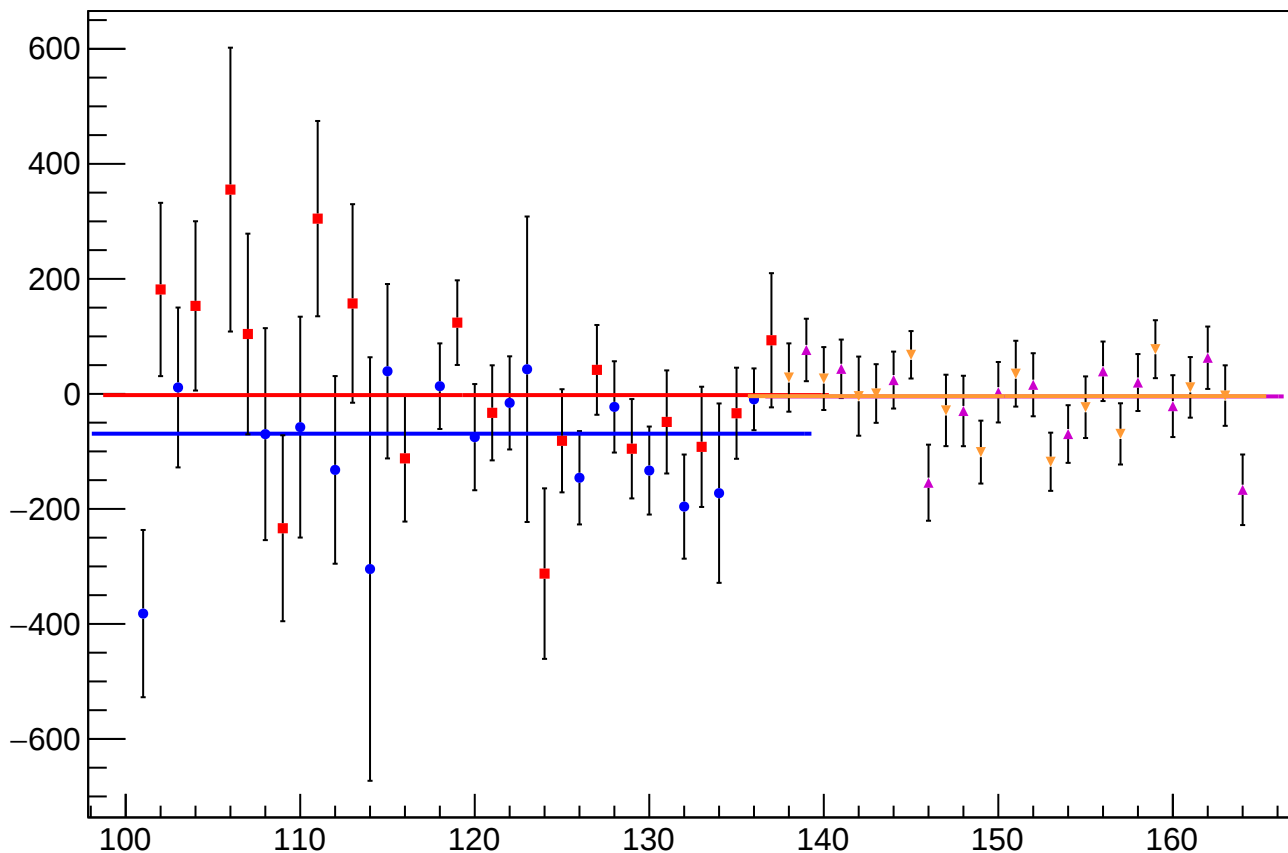
Left In: 383.602+/-0.086  $\chi^2/\text{NDF}$ : 588310.2/12

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

All: 385.618+/-0.061  $\chi^2/\text{NDF}$ : 1470915.3/26

- 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:  $-3.913 \pm 14.275$   $\chi^2/\text{NDF}$ : 16.9/13

Right Out:  $-2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

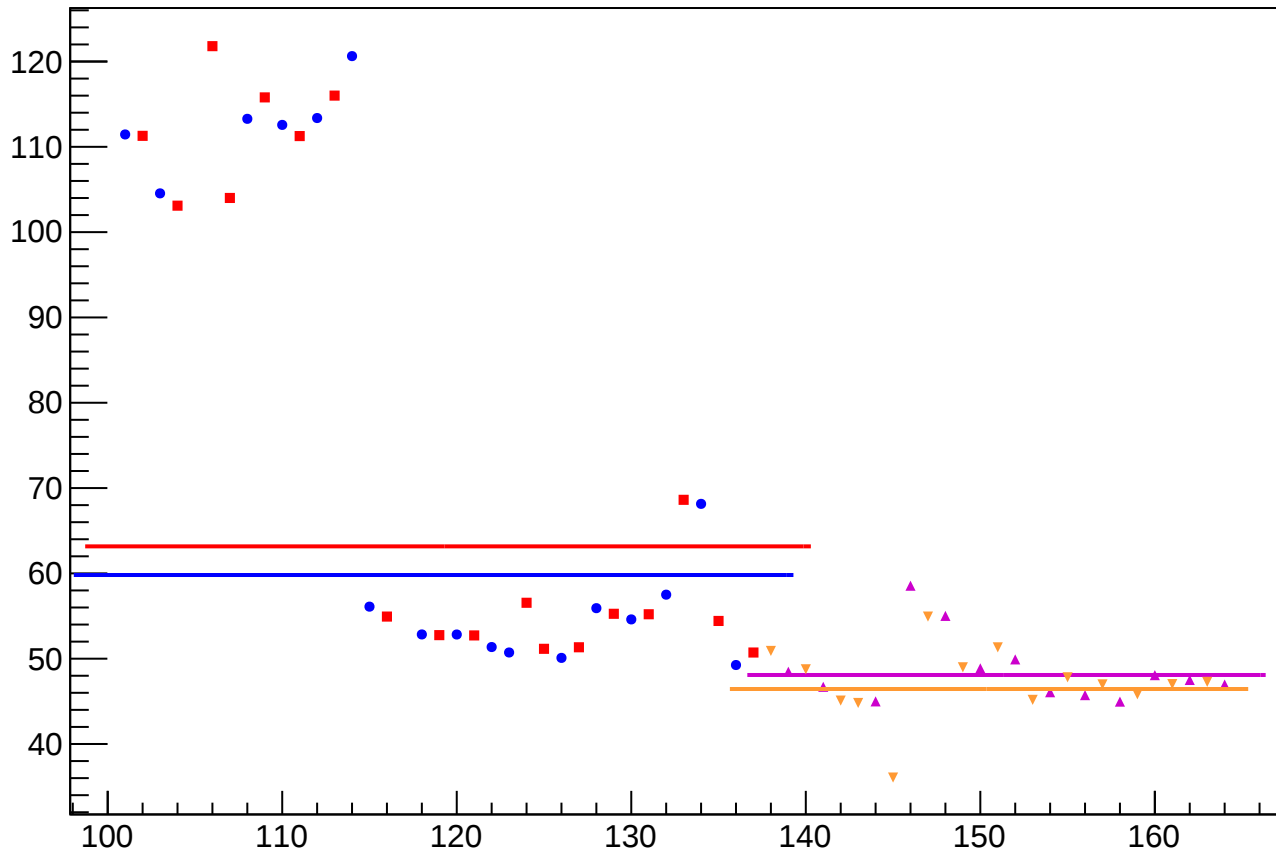
Left In:  $-4.398 \pm 14.985$   $\chi^2/\text{NDF}$ : 20.2/12

+ sign  $-20.702 \pm 12.303$   $\chi^2/\text{NDF}$ : 35.7/30

All:  $-12.633 \pm 8.896$   $\chi^2/\text{NDF}$ : 80.6/61

- sign  $-3.793 \pm 12.878$   $\chi^2/\text{NDF}$ : 44.0/30

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In:  $59.809 \pm 0.017$   $\chi^2/\text{NDF}$ : 1229983.3/16

Left Out:  $46.447 \pm 0.010$   $\chi^2/\text{NDF}$ : 204396.0/13

Right Out:  $63.166 \pm 0.018$   $\chi^2/\text{NDF}$ : 1387305.6/17

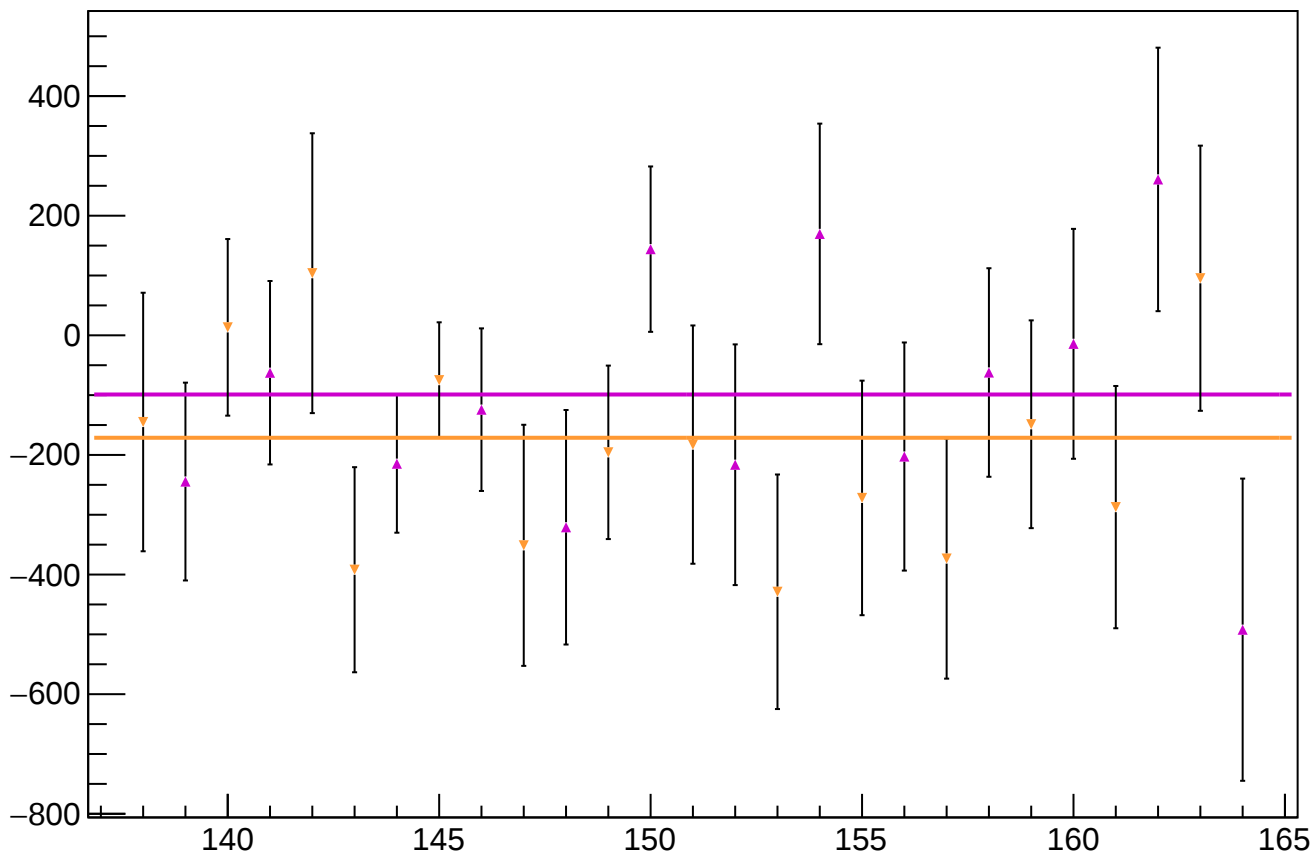
Left In:  $48.089 \pm 0.011$   $\chi^2/\text{NDF}$ : 103949.1/12

+ sign  $49.883 \pm 0.009$   $\chi^2/\text{NDF}$ : 1885060.7/30

All:  $50.908 \pm 0.006$   $\chi^2/\text{NDF}$ : 3934651.1/61

- sign  $52.030 \pm 0.009$   $\chi^2/\text{NDF}$ : 2020521.2/30

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



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

Left Out: -171.287+/-45.715  $\chi^2/\text{NDF}$ : 11.2/13

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

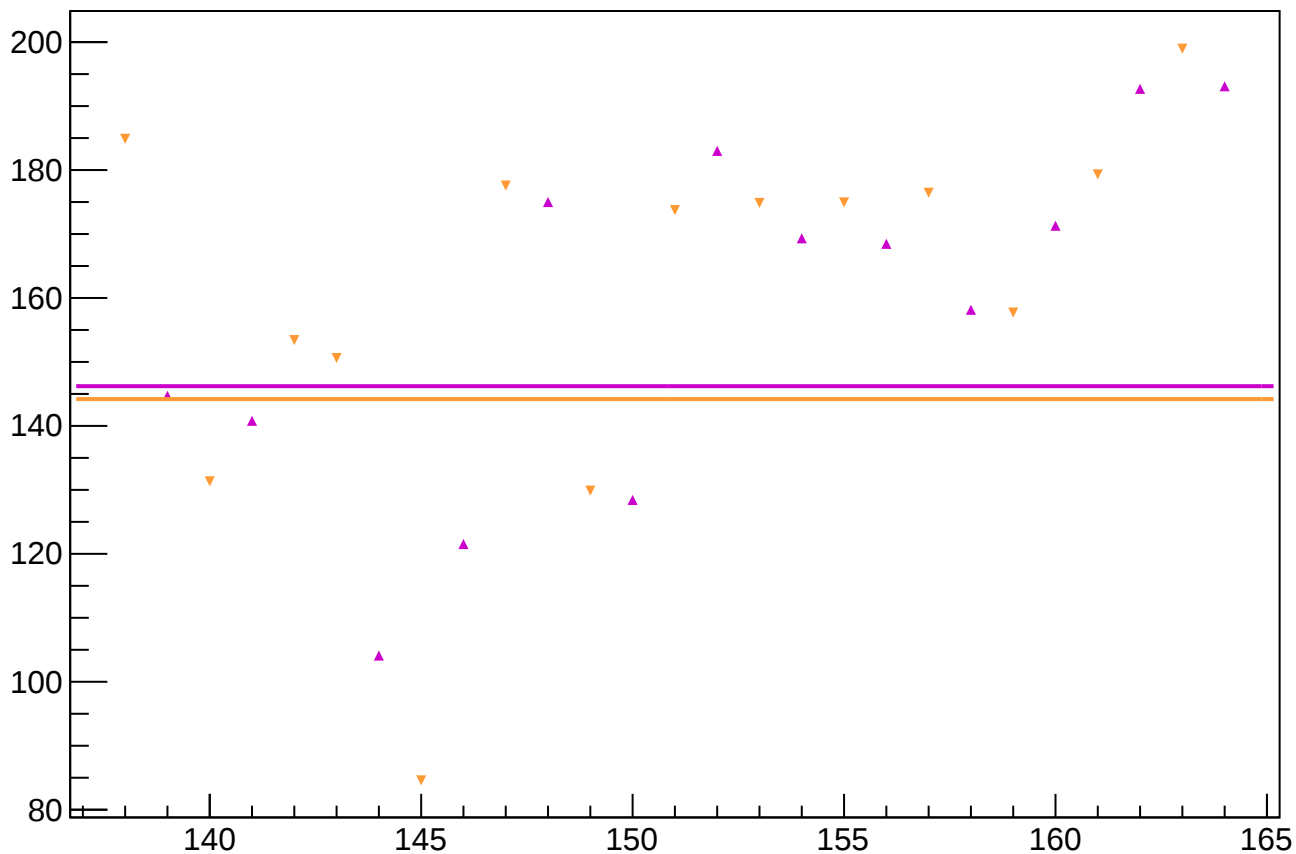
Left In: -98.944+/-46.398  $\chi^2/\text{NDF}$ : 14.3/12

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

All: -135.652+/-32.564  $\chi^2/\text{NDF}$ : 26.8/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 144.194+/-0.032  $\chi^2/\text{NDF}$ :1313831.3/13

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

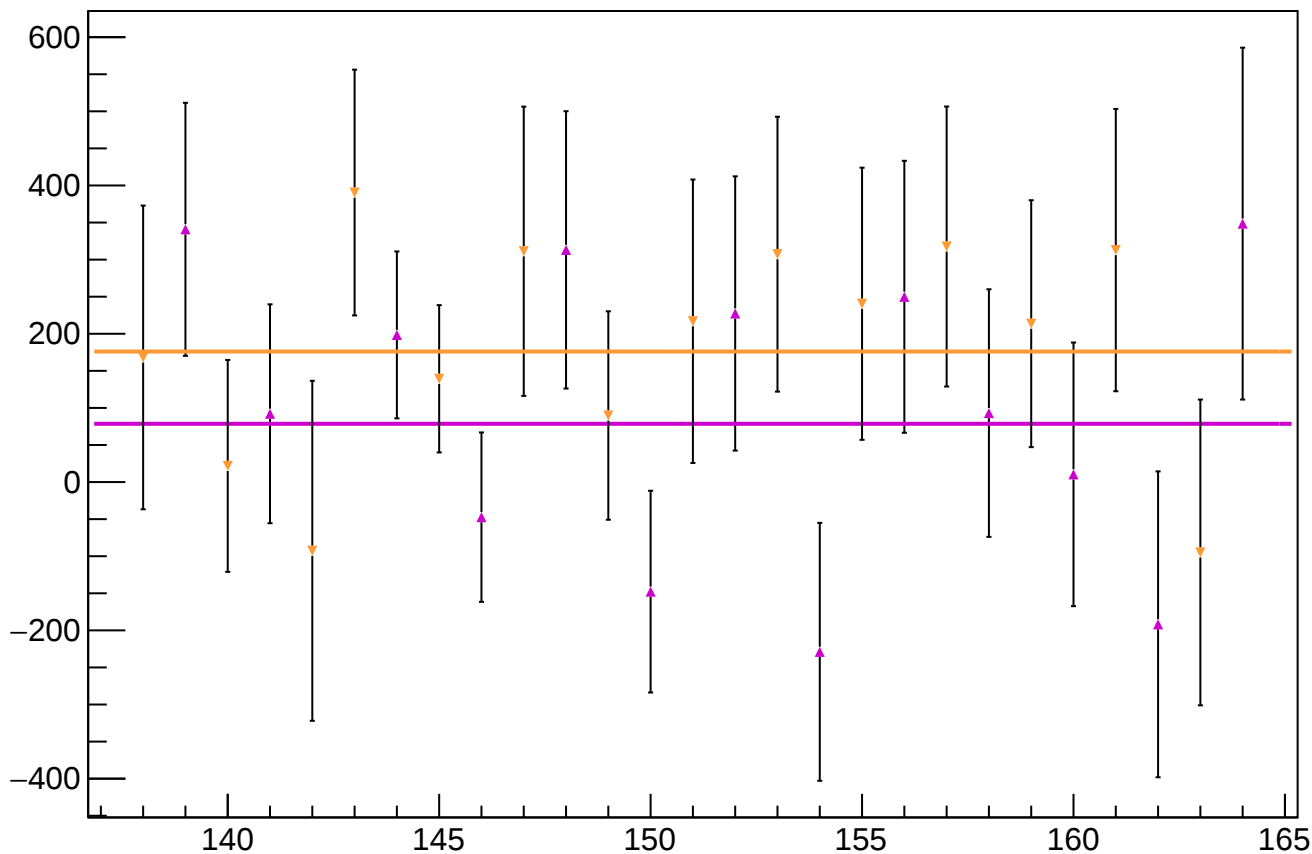
Left In: 146.213+/-0.033  $\chi^2/\text{NDF}$ :738060.2/12

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

All: 145.189+/-0.023  $\chi^2/\text{NDF}$ : 2053814.6/26

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

# asym\_sam\_37\_26\_dd\_mean vs Slug



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

Left Out: 176.040+/-44.370  $\chi^2/\text{NDF}$ : 8.7/13

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

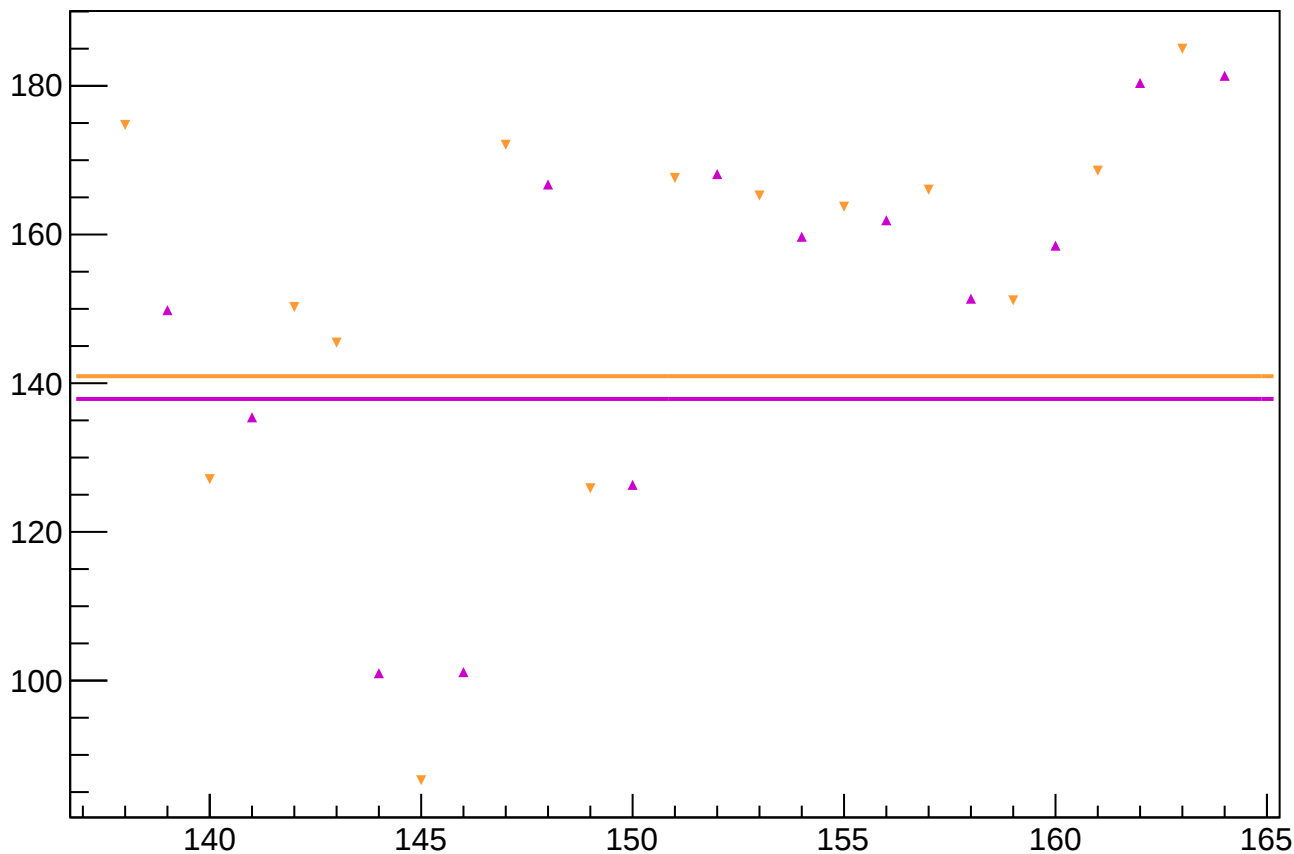
Left In: 78.606+/-43.885  $\chi^2/\text{NDF}$ : 16.9/12

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

All: 126.788+/-31.202  $\chi^2/\text{NDF}$ : 28.0/26

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

# asym\_sam\_37\_26\_dd\_rms vs Slug



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

Left Out: 140.942+/-0.031  $\chi^2/\text{NDF}$ :1031376.3/13

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

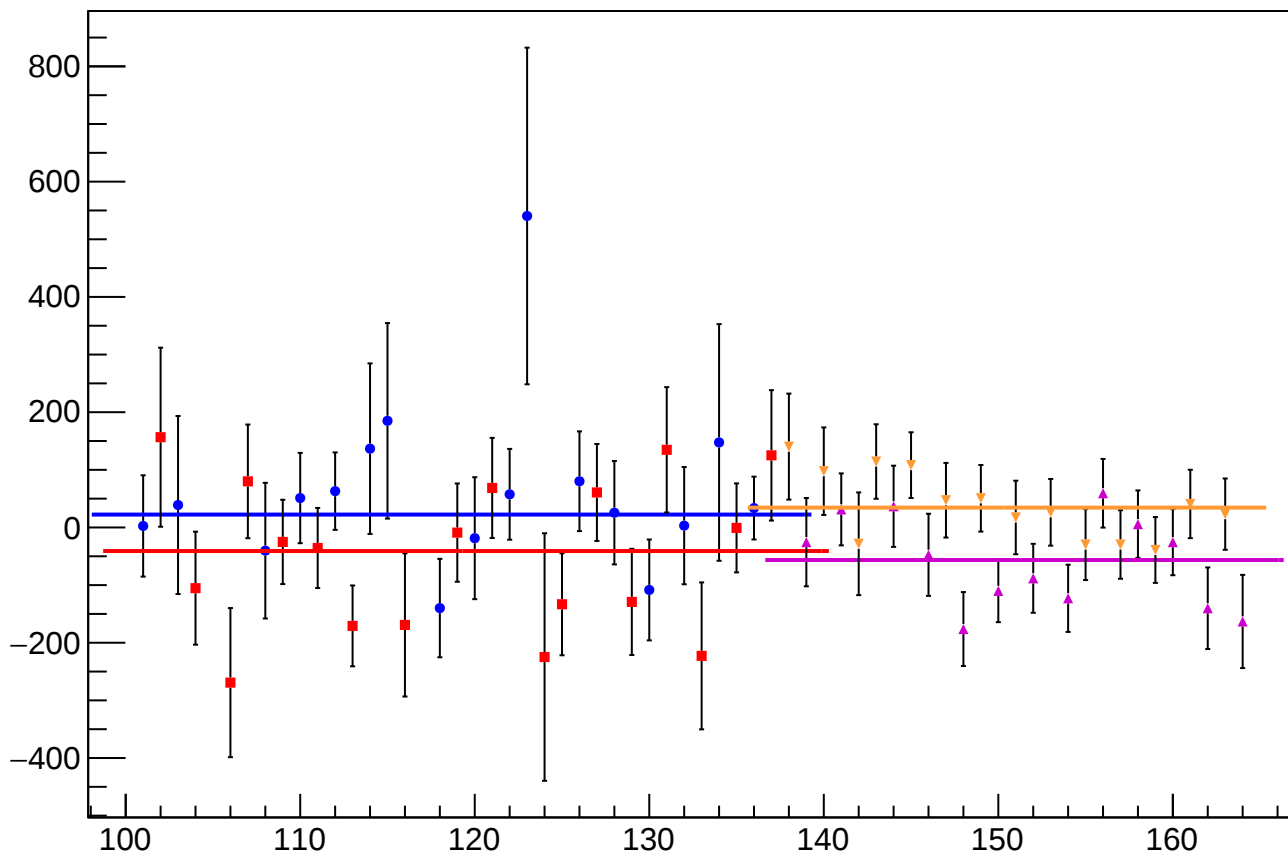
Left In: 137.883+/-0.031  $\chi^2/\text{NDF}$ :805509.4/12

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

All: 139.395+/-0.022  $\chi^2/\text{NDF}$ : 1841690.5/26

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

# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $22.361 \pm 22.625$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $34.437 \pm 17.035$   $\chi^2/\text{NDF}$ : 9.9/13

Right Out:  $-40.867 \pm 22.136$   $\chi^2/\text{NDF}$ : 24.2/17

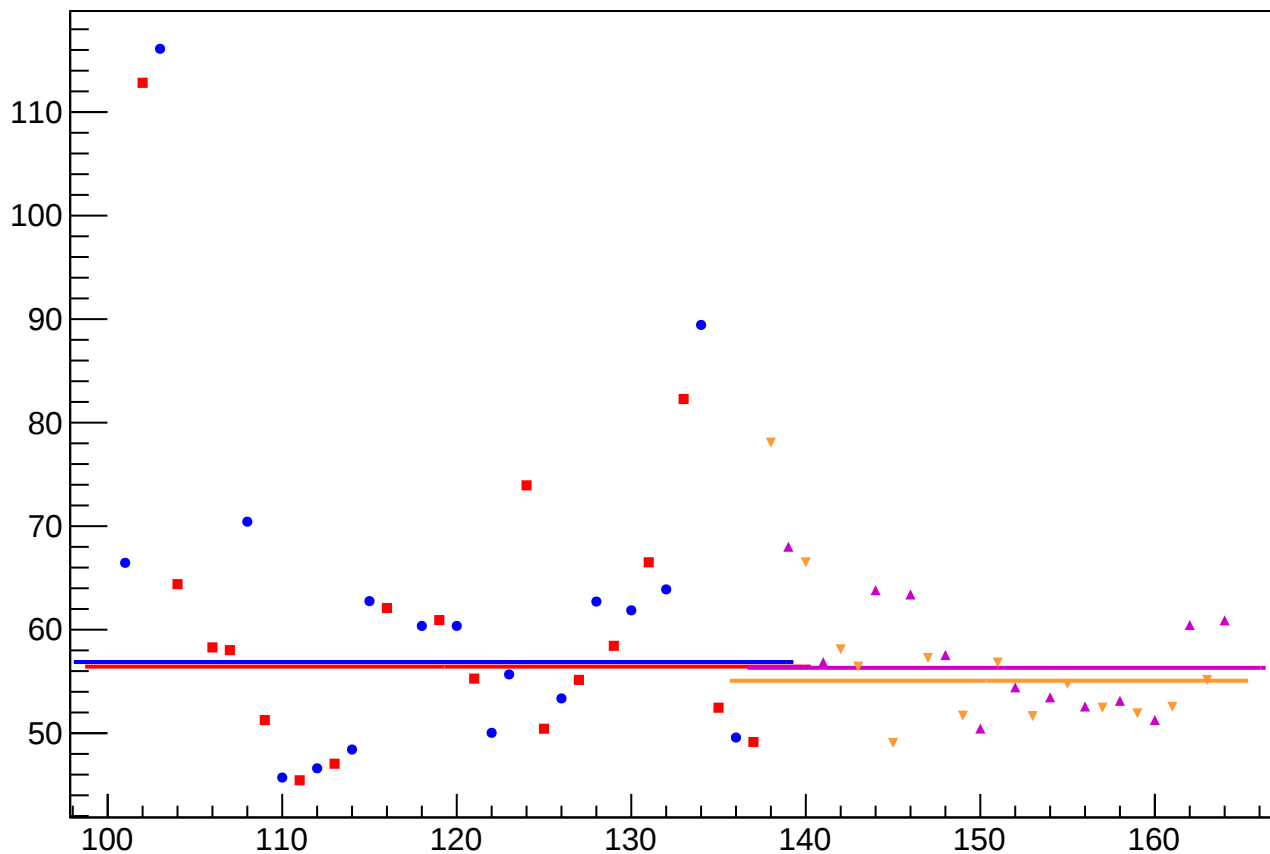
Left In:  $-56.480 \pm 17.646$   $\chi^2/\text{NDF}$ : 18.3/12

+ sign  $30.068 \pm 13.609$   $\chi^2/\text{NDF}$ : 22.6/30

All:  $-9.617 \pm 9.689$   $\chi^2/\text{NDF}$ : 82.7/61

- sign  $-50.413 \pm 13.798$   $\chi^2/\text{NDF}$ : 42.8/30

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 56.879 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 575487.1/16

Left Out: 55.069 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 226946.7/13

Right Out: 56.434 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 520456.9/17

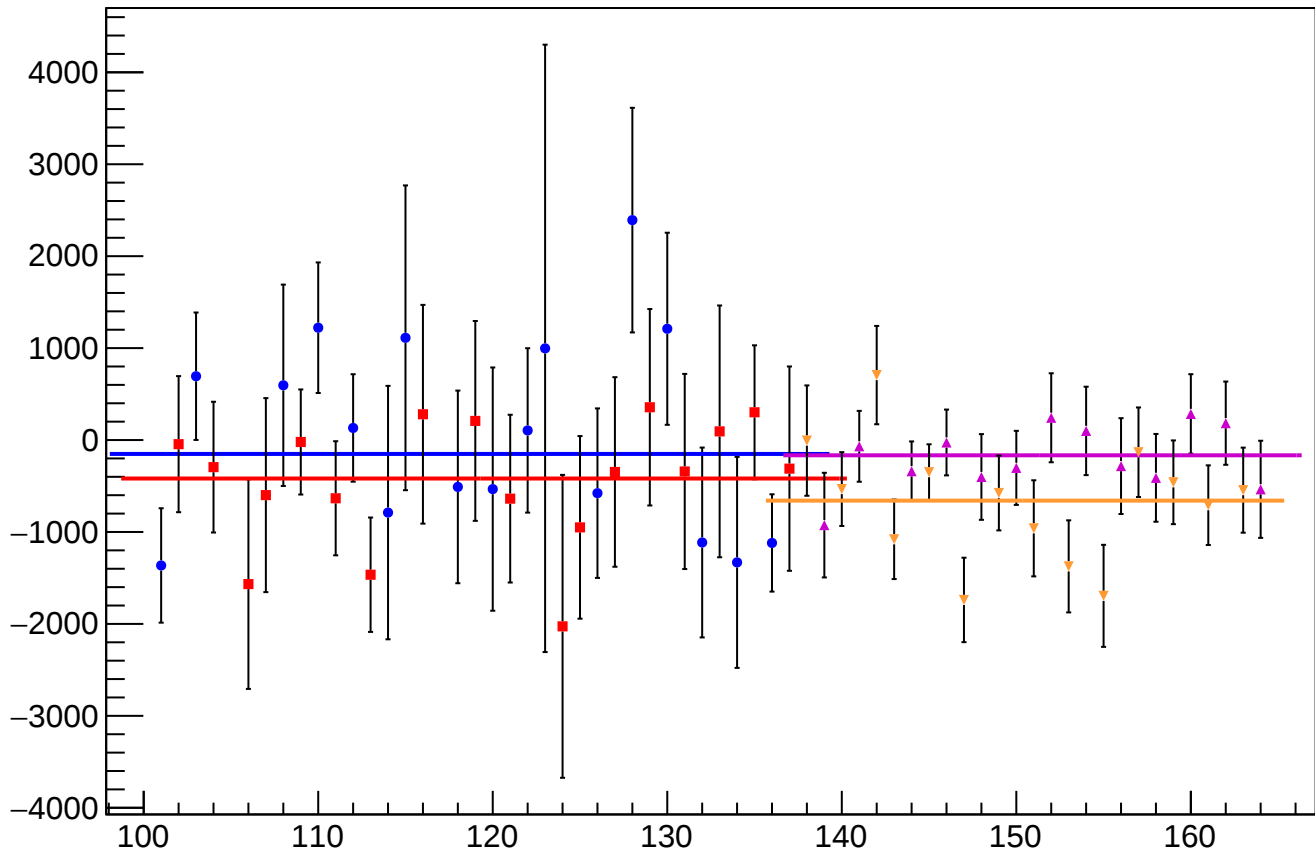
Left In: 56.317 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 162548.2/12

+ sign 55.724 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 810602.0/30

All: 56.039 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1495813.6/61

- sign 56.362 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 683039.4/30

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In:  $-151.194 \pm 212.448$   $\chi^2/\text{NDF}$ : 22.4/16

Left Out:  $-659.031 \pm 120.043$   $\chi^2/\text{NDF}$ : 22.6/13

Right Out:  $-418.554 \pm 205.061$   $\chi^2/\text{NDF}$ : 8.4/17

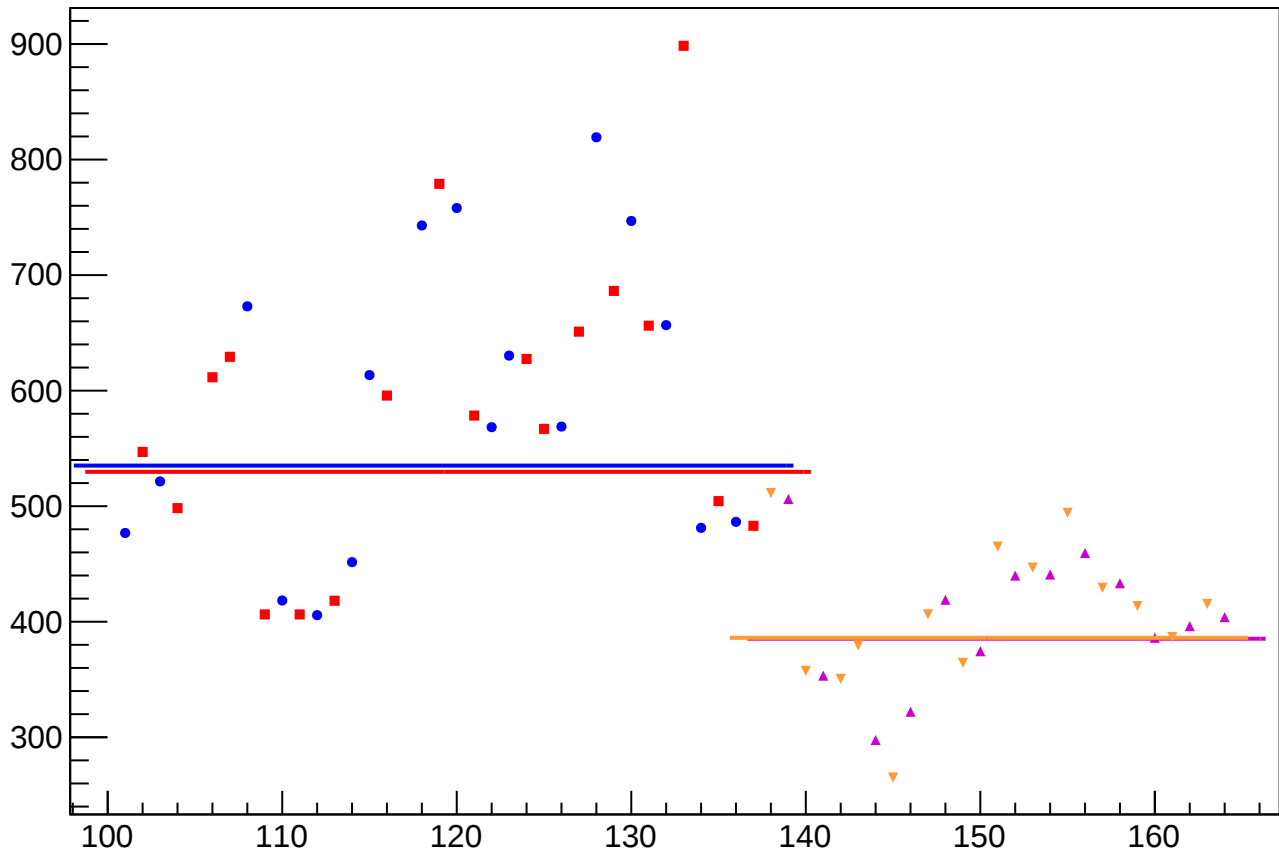
Left In:  $-166.000 \pm 120.928$   $\chi^2/\text{NDF}$ : 6.2/12

+ sign  $-536.130 \pm 104.512$   $\chi^2/\text{NDF}$ : 49.4/30

All:  $-383.141 \pm 73.778$   $\chi^2/\text{NDF}$ : 69.4/61

- sign  $-231.167 \pm 104.165$   $\chi^2/\text{NDF}$ : 15.7/30

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 535.137 $\pm$ 0.150  $\chi^2$ /NDF: 596084.8/16

Left Out: 386.091 $\pm$ 0.085  $\chi^2$ /NDF: 616363.2/13

Right Out: 529.720 $\pm$ 0.145  $\chi^2$ /NDF: 646725.7/17

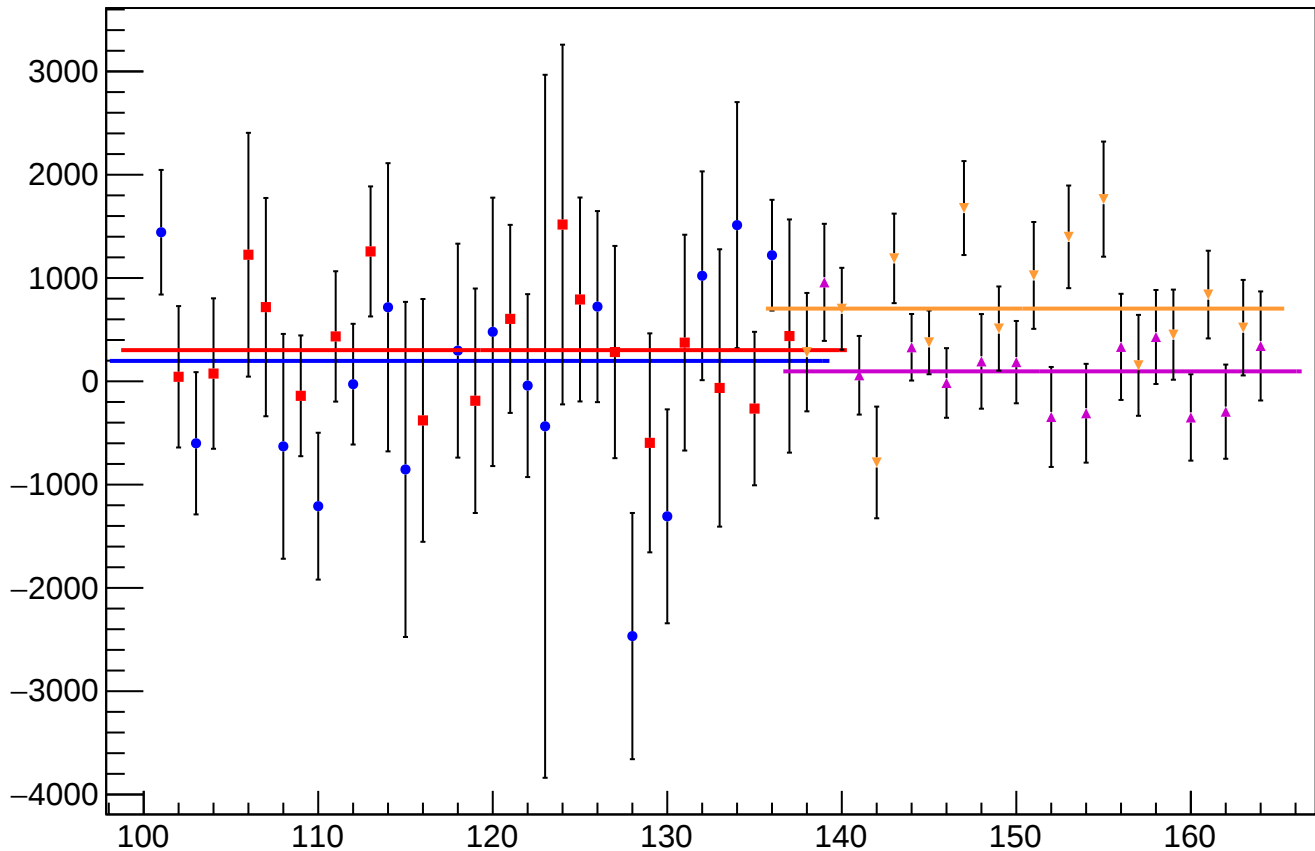
Left In: 385.306 $\pm$ 0.086  $\chi^2$ /NDF: 441165.0/12

+ sign 422.161 $\pm$ 0.074  $\chi^2$ /NDF: 1958609.2/30

All: 422.366 $\pm$ 0.052  $\chi^2$ /NDF: 3782493.5/61

- sign 422.569 $\pm$ 0.074  $\chi^2$ /NDF: 1823869.0/30

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $197.561 \pm 211.480$   $\chi^2/\text{NDF}$ : 23.9/16

Left Out:  $703.919 \pm 119.368$   $\chi^2/\text{NDF}$ : 23.1/13

Right Out:  $301.856 \pm 205.700$   $\chi^2/\text{NDF}$ : 6.7/17

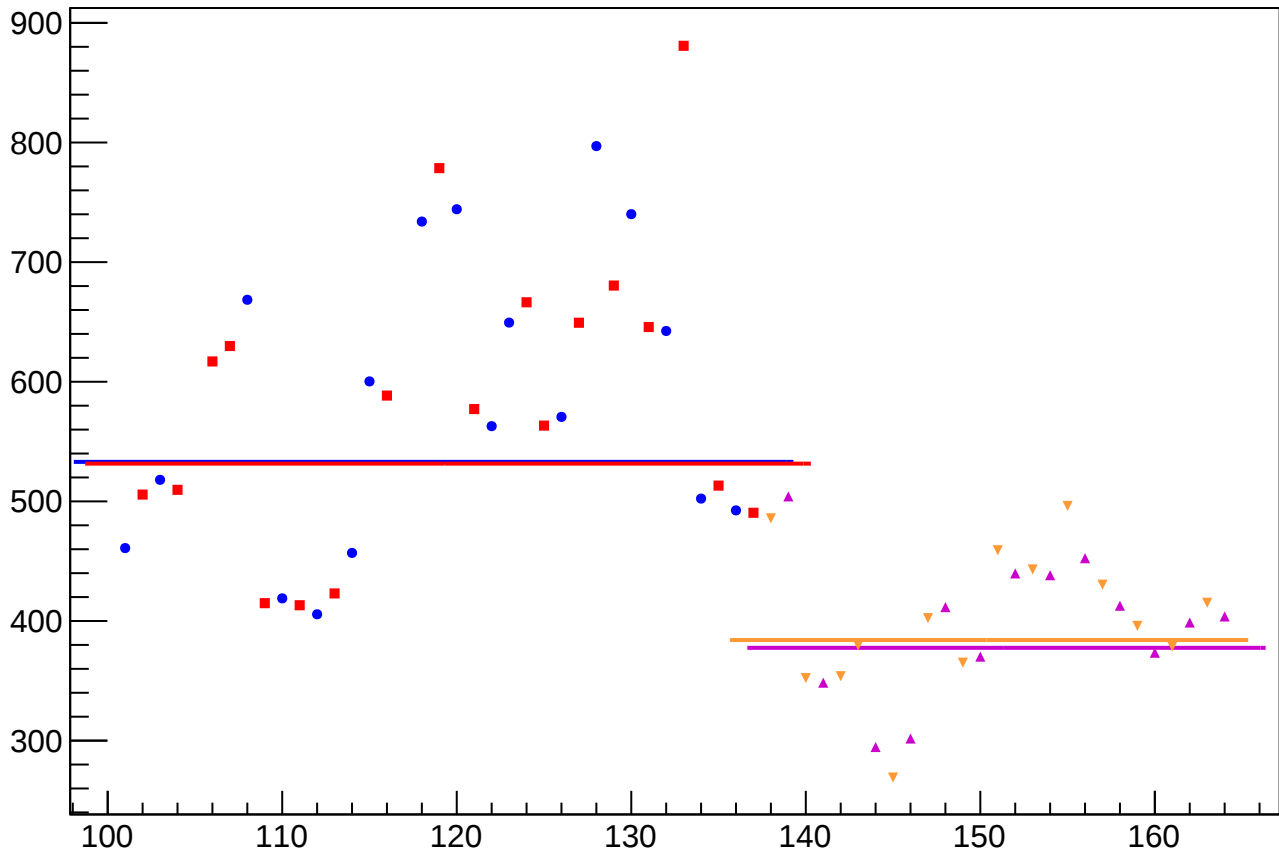
Left In:  $96.465 \pm 118.773$   $\chi^2/\text{NDF}$ : 7.4/12

+ sign  $581.575 \pm 103.952$   $\chi^2/\text{NDF}$ : 51.4/30

All:  $362.403 \pm 73.115$   $\chi^2/\text{NDF}$ : 75.1/61

- sign  $147.821 \pm 102.858$   $\chi^2/\text{NDF}$ : 14.9/30

# asym\_sam\_1357\_avg\_rms vs Slug



Right In:  $533.031 \pm 0.150$   $\chi^2/\text{NDF}$ : 566851.1/16

Left Out:  $384.087 \pm 0.084$   $\chi^2/\text{NDF}$ : 547565.0/13

Right Out:  $531.559 \pm 0.145$   $\chi^2/\text{NDF}$ : 597920.9/17

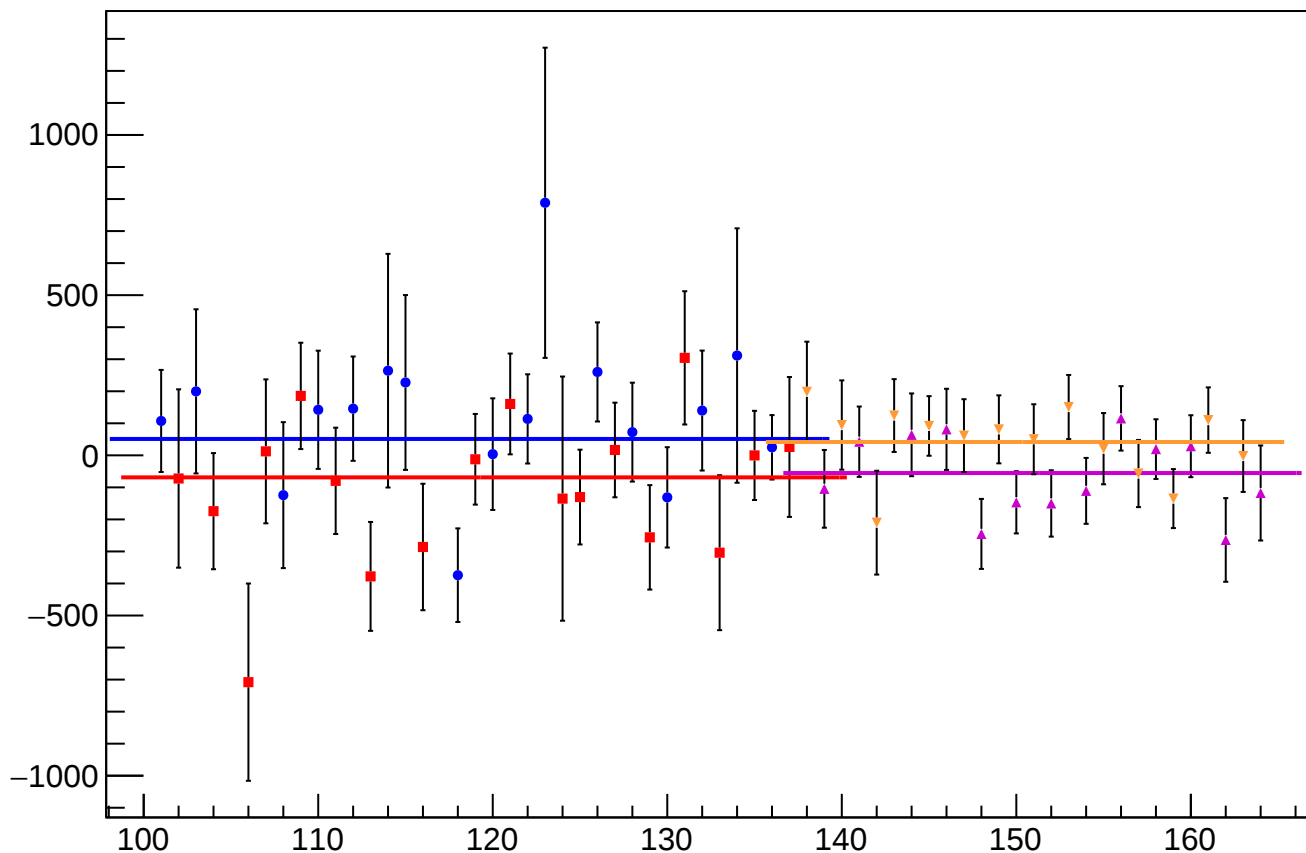
Left In:  $377.580 \pm 0.084$   $\chi^2/\text{NDF}$ : 486063.2/12

+ sign  $420.074 \pm 0.074$   $\chi^2/\text{NDF}$ : 1866780.7/30

All:  $418.056 \pm 0.052$   $\chi^2/\text{NDF}$ : 3792735.4/61

- sign  $416.080 \pm 0.073$   $\chi^2/\text{NDF}$ : 1924462.8/30

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 41.621 $\pm$ 29.637  $\chi^2$ /NDF:10.9/13

Right Out: -68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

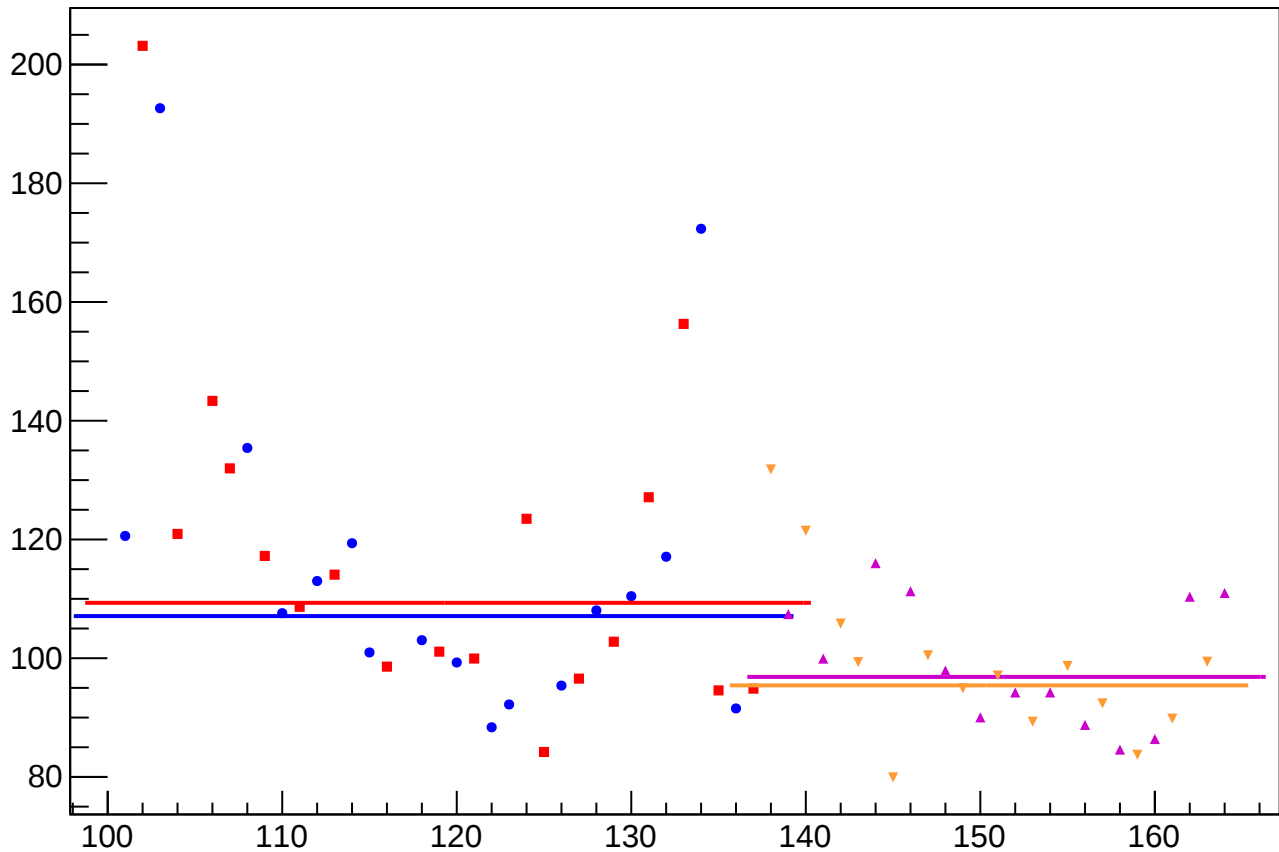
Left In: -55.204 $\pm$ 30.486  $\chi^2$ /NDF:15.0/12

+ sign 44.752 $\pm$ 24.294  $\chi^2$ /NDF: 28.4/30

All: -6.367 $\pm$ 17.365  $\chi^2$ /NDF: 72.9/61

- sign -59.773 $\pm$ 24.831  $\chi^2$ /NDF: 35.5/30

dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 95.423 $\pm$ 0.021  $\chi^2$ /NDF:300273.4/13

Right Out: 109.329 $\pm$ 0.030  $\chi^2$ /NDF: 506023.6/17

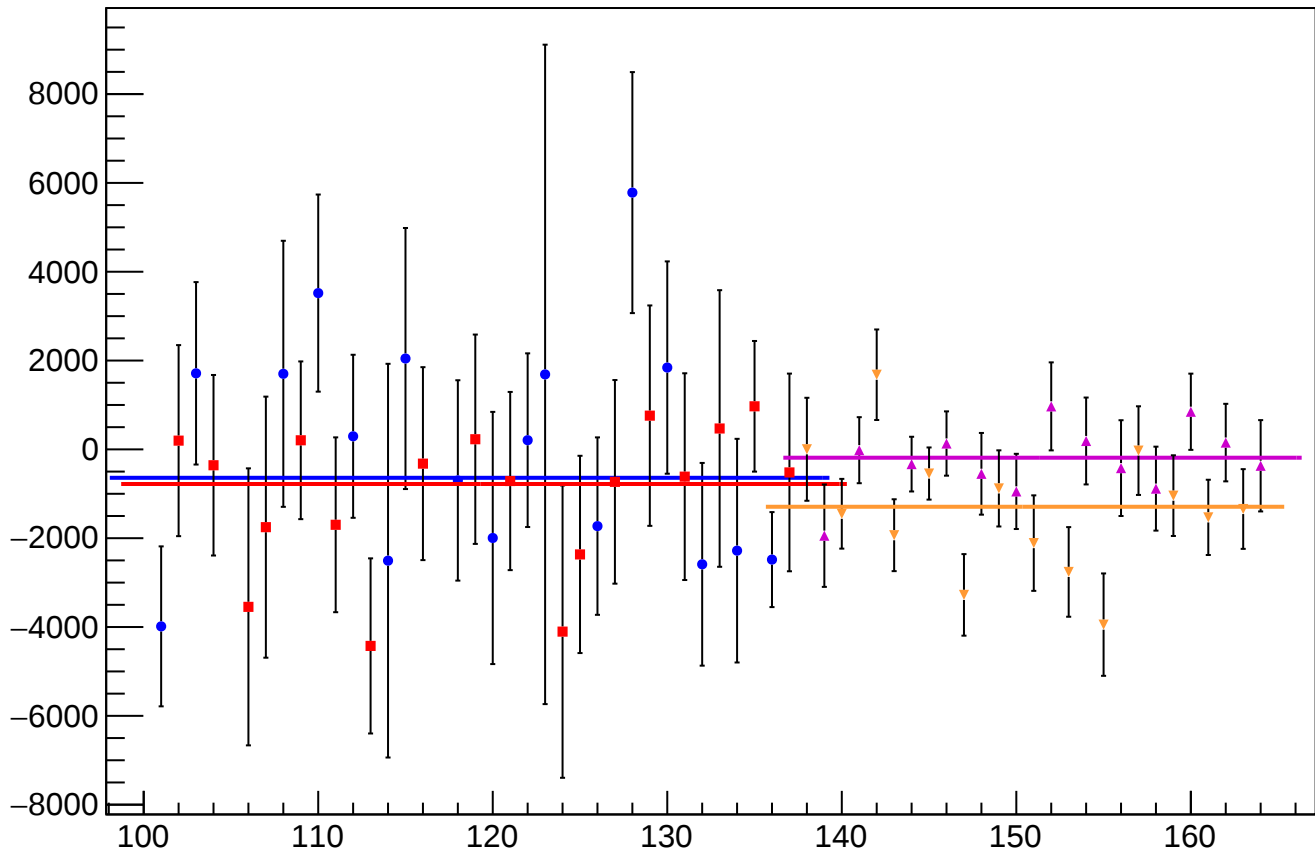
Left In: 96.853 $\pm$ 0.022  $\chi^2$ /NDF:209849.8/12

+ sign 99.251 $\pm$ 0.017  $\chi^2$ /NDF: 839777.5/30

All: 100.132 $\pm$ 0.012  $\chi^2$ /NDF: 1673748.9/61

- sign 101.052 $\pm$ 0.018  $\chi^2$ /NDF: 828597.1/30

# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In:  $-639.847 \pm 519.248$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-1292.088 \pm 237.338$   $\chi^2/\text{NDF}$ : 26.7/13

Right Out:  $-779.450 \pm 516.450$   $\chi^2/\text{NDF}$ : 8.8/17

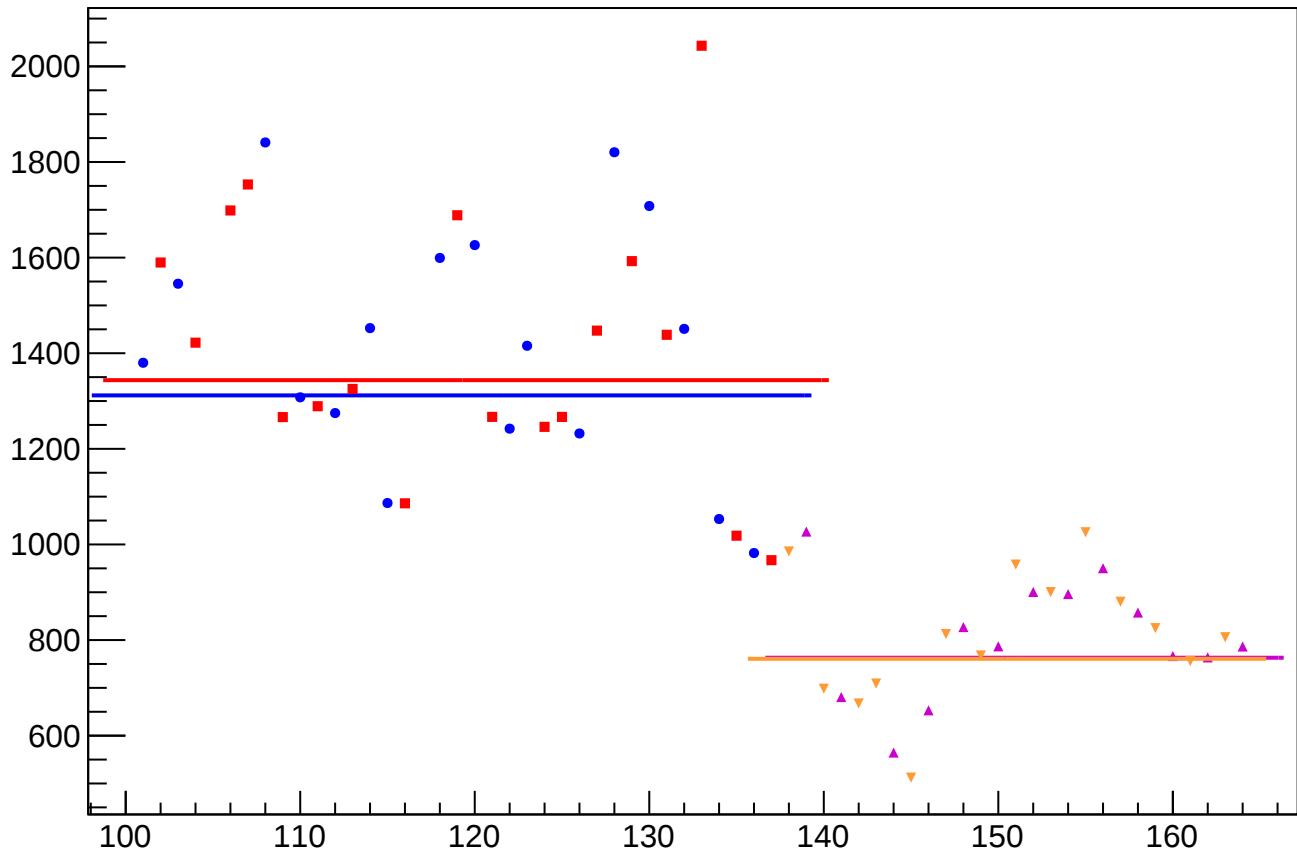
Left In:  $-187.698 \pm 240.123$   $\chi^2/\text{NDF}$ : 7.3/12

+ sign  $-1179.370 \pm 215.858$   $\chi^2/\text{NDF}$ : 49.8/30

All:  $-739.970 \pm 153.295$   $\chi^2/\text{NDF}$ : 75.4/61

- sign  $-292.882 \pm 217.738$   $\chi^2/\text{NDF}$ : 17.2/30

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1311.795+/-0.367  $\chi^2/\text{NDF}$ : 512676.0/16

Left Out: 760.823+/-0.168  $\chi^2/\text{NDF}$ : 732055.2/13

Right Out: 1343.659+/-0.365  $\chi^2/\text{NDF}$ : 461009.9/17

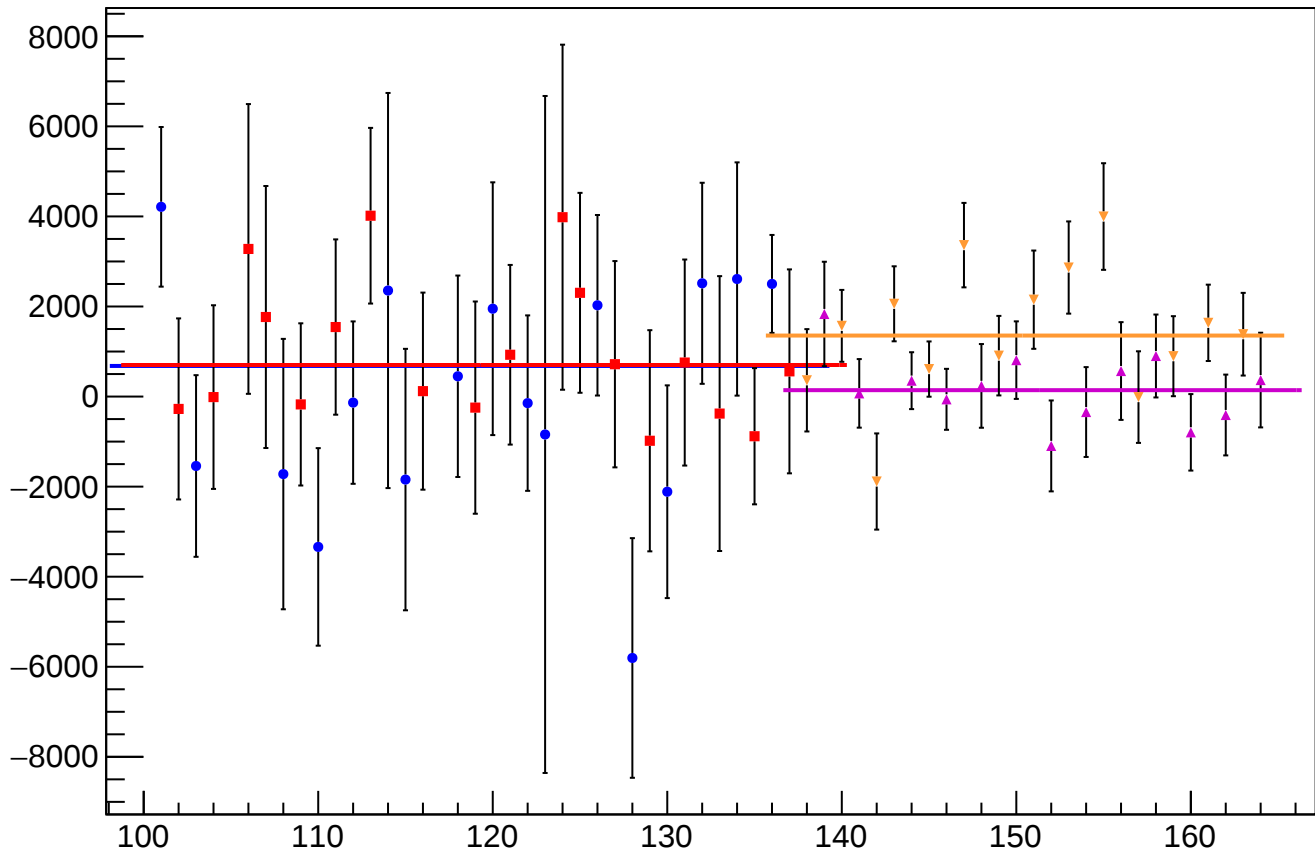
Left In: 763.054+/-0.170  $\chi^2/\text{NDF}$ : 551247.5/12

+ sign 856.041+/-0.153  $\chi^2/\text{NDF}$ : 3107419.5/30

All: 861.105+/-0.108  $\chi^2/\text{NDF}$ : 6200338.1/61

- sign 866.257+/-0.154  $\chi^2/\text{NDF}$ : 3090697.9/30

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 679.925 $\pm$ 517.508  $\chi^2$ /NDF: 22.6/16

Left Out: 1354.828 $\pm$ 242.114  $\chi^2$ /NDF:27.0/13

Right Out: 700.930 $\pm$ 517.319  $\chi^2$ /NDF: 7.6/17

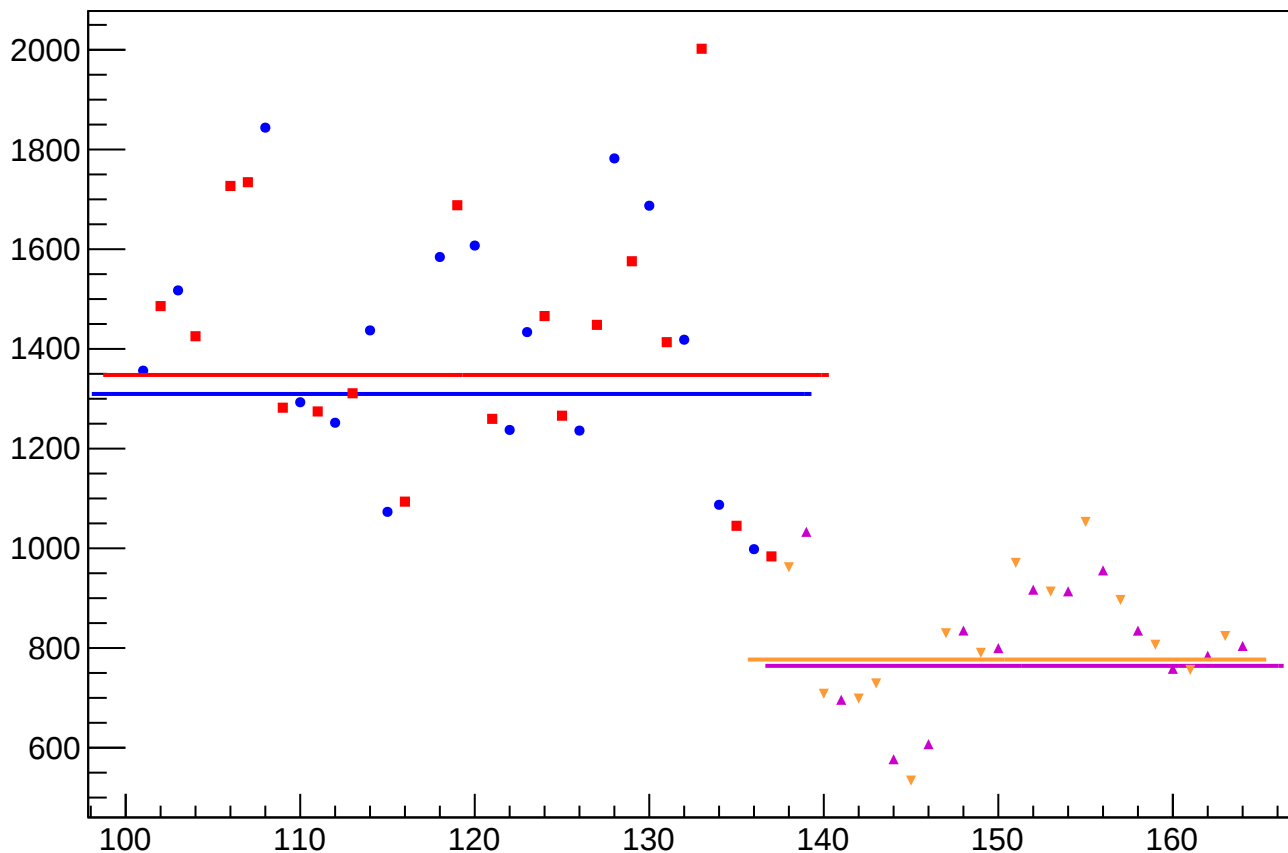
Left In: 142.105 $\pm$ 241.022  $\chi^2$ /NDF:7.2/12

+ sign 1233.632 $\pm$ 219.301  $\chi^2$ /NDF: 50.9/30

All: 735.830 $\pm$ 154.776  $\chi^2$ /NDF: 76.9/61

- sign 241.773 $\pm$ 218.474  $\chi^2$ /NDF: 15.8/30

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1309.654 $\pm$ 0.366  $\chi^2$ /NDF: 459314.8/16

Left Out: 776.912 $\pm$ 0.171  $\chi^2$ /NDF: 648881.1/13

Right Out: 1347.768 $\pm$ 0.366  $\chi^2$ /NDF: 405345.0/17

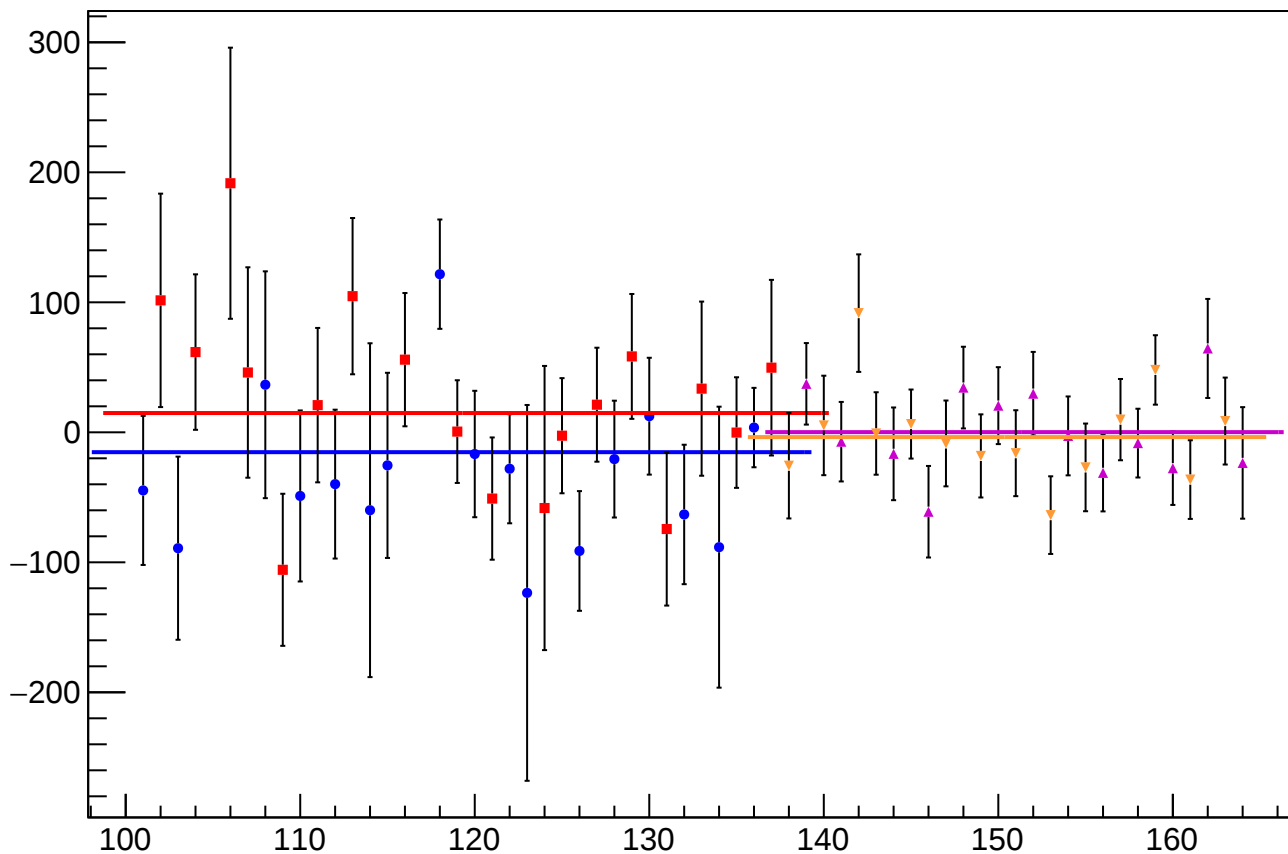
Left In: 764.223 $\pm$ 0.170  $\chi^2$ /NDF: 590849.6/12

+ sign 872.579 $\pm$ 0.155  $\chi^2$ /NDF: 2847071.2/30

All: 870.432 $\pm$ 0.109  $\chi^2$ /NDF: 5934608.6/61

- sign 868.300 $\pm$ 0.154  $\chi^2$ /NDF: 3087155.2/30

# 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:  $-3.671 \pm 8.634$   $\chi^2/\text{NDF}$ : 15.1/13

Right Out:  $14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

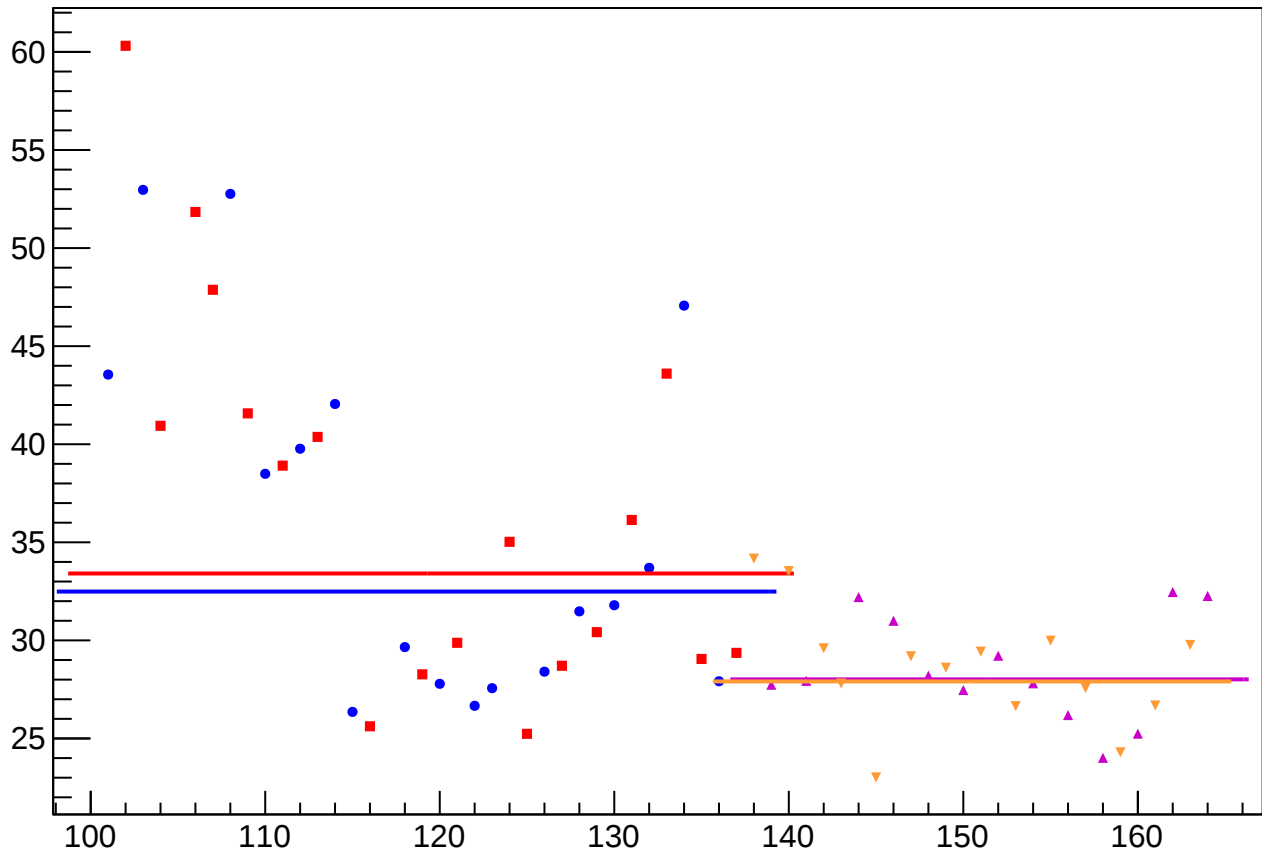
Left In:  $0.135 \pm 8.791$   $\chi^2/\text{NDF}$ : 12.6/12

+ sign  $-7.260 \pm 7.176$   $\chi^2/\text{NDF}$ : 33.9/30

All:  $-1.381 \pm 5.117$   $\chi^2/\text{NDF}$ : 66.9/61

- sign  $4.702 \pm 7.299$   $\chi^2/\text{NDF}$ : 31.6/30

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.489 $\pm$ 0.009  $\chi^2$ /NDF: 594480.9/16

Left Out: 27.908 $\pm$ 0.006  $\chi^2$ /NDF: 227211.7/13

Right Out: 33.411 $\pm$ 0.009  $\chi^2$ /NDF: 725189.8/17

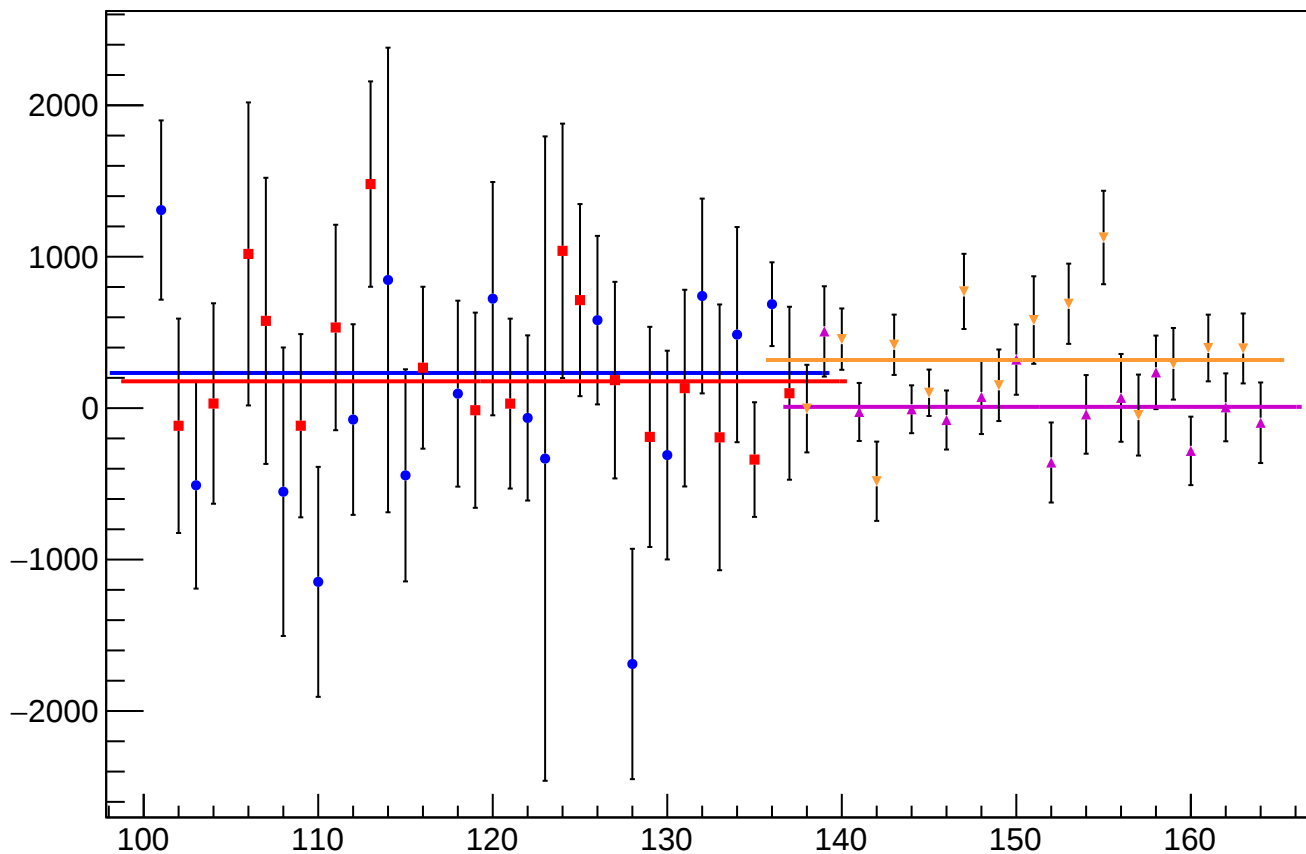
Left In: 28.013 $\pm$ 0.006  $\chi^2$ /NDF: 165308.8/12

+ sign 29.324 $\pm$ 0.005  $\chi^2$ /NDF: 995738.4/30

All: 29.504 $\pm$ 0.004  $\chi^2$ /NDF: 2122988.9/61

- sign 29.690 $\pm$ 0.005  $\chi^2$ /NDF: 1124701.8/30

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 232.332 $\pm$ 148.607  $\chi^2$ /NDF: 21.5/16

Left Out: 317.924 $\pm$ 61.917  $\chi^2$ /NDF:28.9/13

Right Out: 177.151 $\pm$ 150.003  $\chi^2$ /NDF: 9.6/17

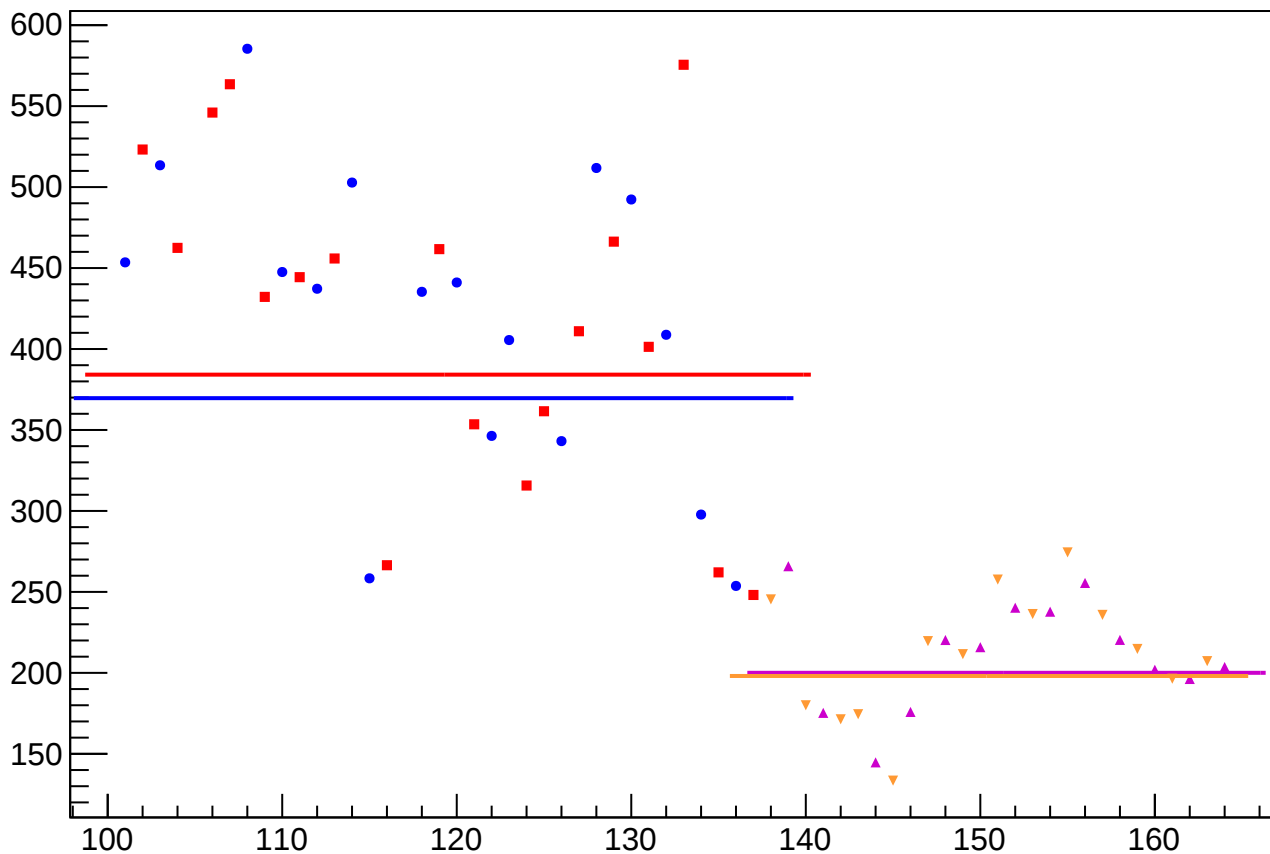
Left In: 8.378 $\pm$ 63.039  $\chi^2$ /NDF:9.6/12

+ sign 305.264 $\pm$ 57.154  $\chi^2$ /NDF: 50.6/30

All: 171.751 $\pm$ 40.750  $\chi^2$ /NDF: 82.0/61

- sign 33.711 $\pm$ 58.115  $\chi^2$ /NDF: 20.3/30

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 369.650 $\pm$ 0.105  $\chi^2$ /NDF: 902775.2/16

Left Out: 198.081 $\pm$ 0.044  $\chi^2$ /NDF: 797741.6/13

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

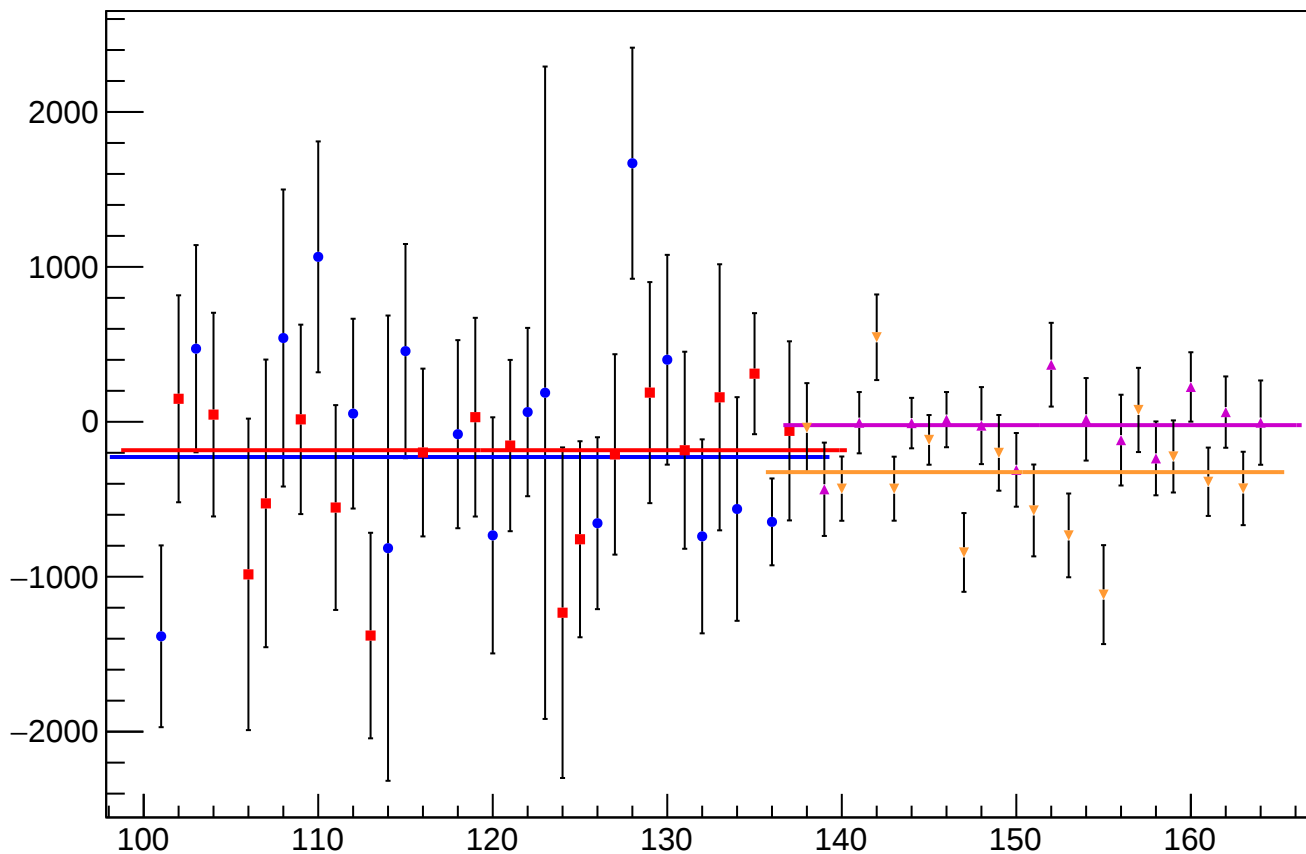
Left In: 200.036 $\pm$ 0.045  $\chi^2$ /NDF: 606453.5/12

+ sign 223.459 $\pm$ 0.040  $\chi^2$ /NDF: 3971984.9/30

All: 225.532 $\pm$ 0.029  $\chi^2$ /NDF: 8020149.1/61

- sign 227.675 $\pm$ 0.041  $\chi^2$ /NDF: 4042815.2/30

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $-324.762 \pm 63.484$   $\chi^2/\text{NDF}$ : 29.3/13

Right Out:  $-183.318 \pm 150.486$   $\chi^2/\text{NDF}$ : 8.8/17

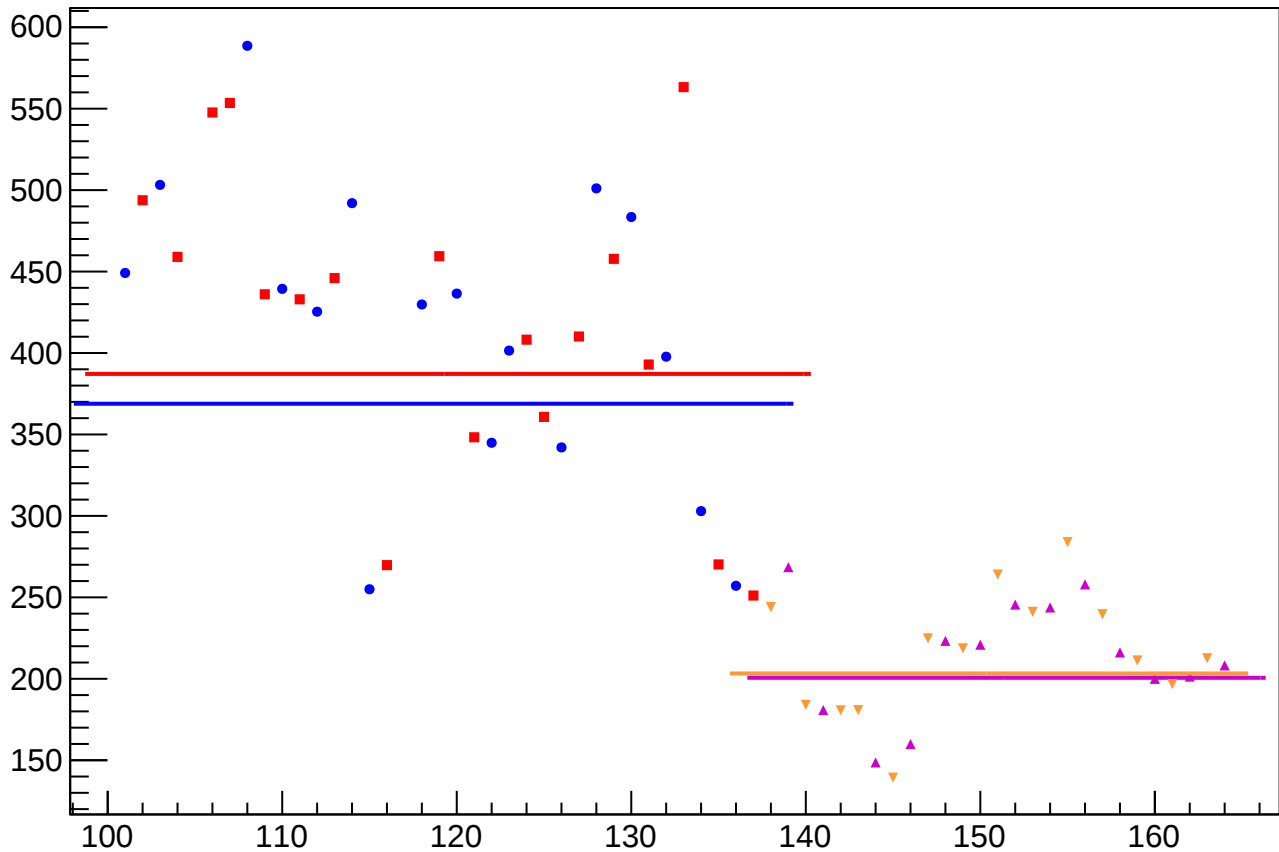
Left In:  $-21.480 \pm 63.374$   $\chi^2/\text{NDF}$ : 7.8/12

+ sign  $-309.600 \pm 58.338$   $\chi^2/\text{NDF}$ : 51.5/30

All:  $-177.884 \pm 41.275$   $\chi^2/\text{NDF}$ : 79.3/61

- sign  $-45.859 \pm 58.406$   $\chi^2/\text{NDF}$ : 17.6/30

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.864+/-0.105  $\chi^2/\text{NDF}$ : 829732.0/16

Left Out: 203.261+/-0.045  $\chi^2/\text{NDF}$ : 728124.0/13

Right Out: 387.165+/-0.106  $\chi^2/\text{NDF}$ : 758108.0/17

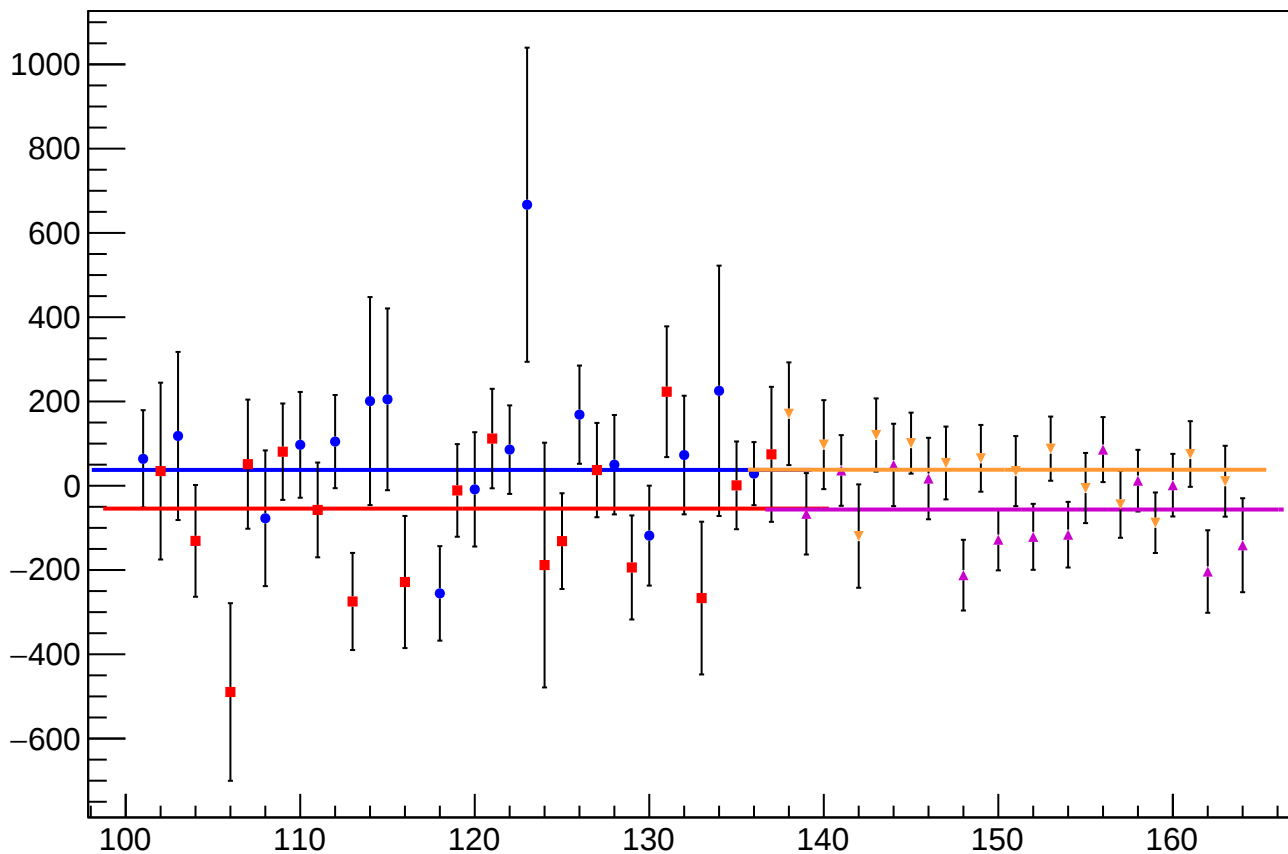
Left In: 200.620+/-0.045  $\chi^2/\text{NDF}$ : 655099.2/12

+ sign 229.018+/-0.041  $\chi^2/\text{NDF}$ : 3674642.4/30

All: 228.869+/-0.029  $\chi^2/\text{NDF}$ : 7698214.6/61

- sign 228.720+/-0.041  $\chi^2/\text{NDF}$ : 4023546.3/30

# dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 37.535 $\pm$ 31.460  $\chi^2/\text{NDF}$ : 15.8/16

Left Out: 37.971 $\pm$ 22.586  $\chi^2/\text{NDF}$ : 10.2/13

Right Out: -54.274 $\pm$ 31.489  $\chi^2/\text{NDF}$ : 21.8/17

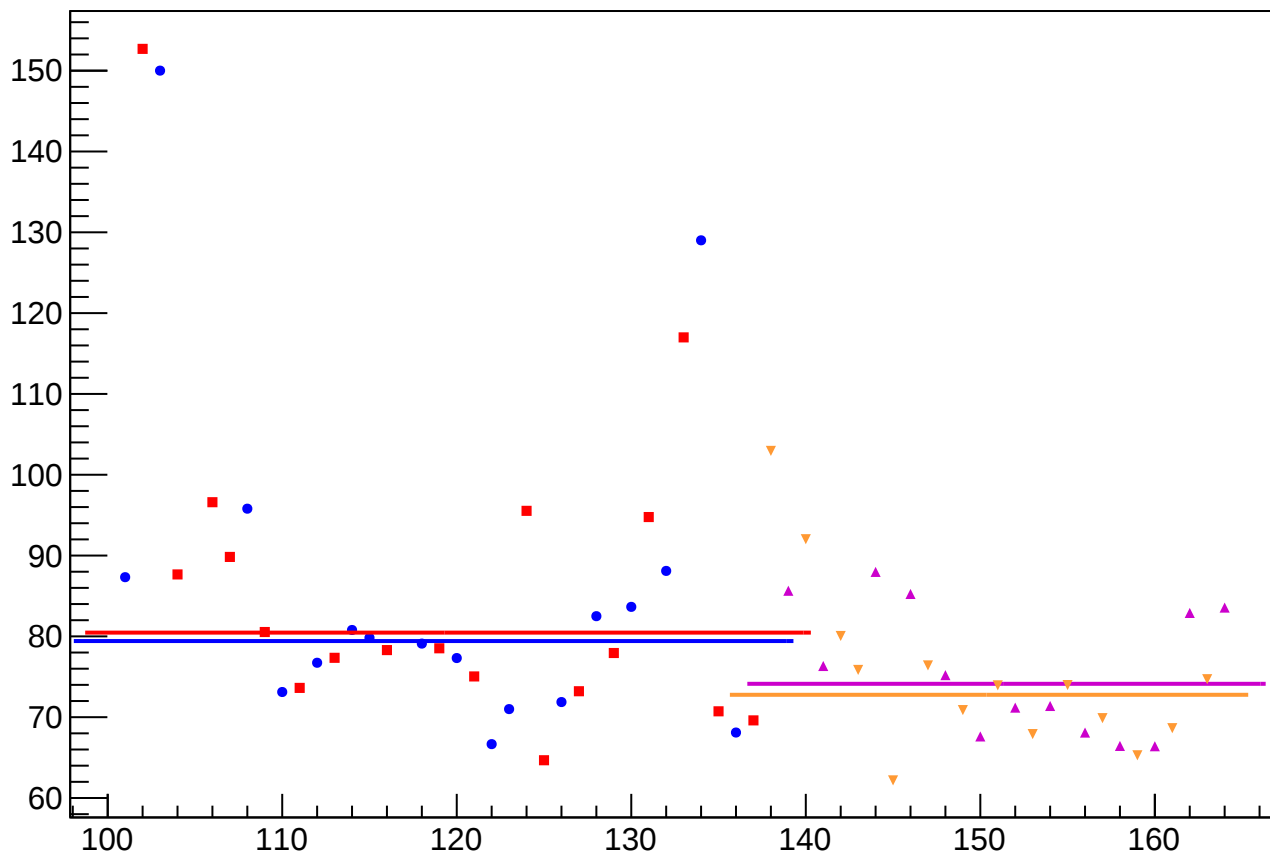
Left In: -56.458 $\pm$ 23.314  $\chi^2/\text{NDF}$ : 16.4/12

+ sign 37.823 $\pm$ 18.347  $\chi^2/\text{NDF}$ : 26.0/30

All: -7.948 $\pm$ 13.109  $\chi^2/\text{NDF}$ : 76.9/61

- sign -55.685 $\pm$ 18.737  $\chi^2/\text{NDF}$ : 38.2/30

# dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 79.421 $\pm$ 0.022     $\chi^2/\text{NDF}$ : 439047.1/16

Left Out: 72.771 $\pm$ 0.016     $\chi^2/\text{NDF}$ : 286203.1/13

Right Out: 80.465 $\pm$ 0.022     $\chi^2/\text{NDF}$ : 454376.0/17

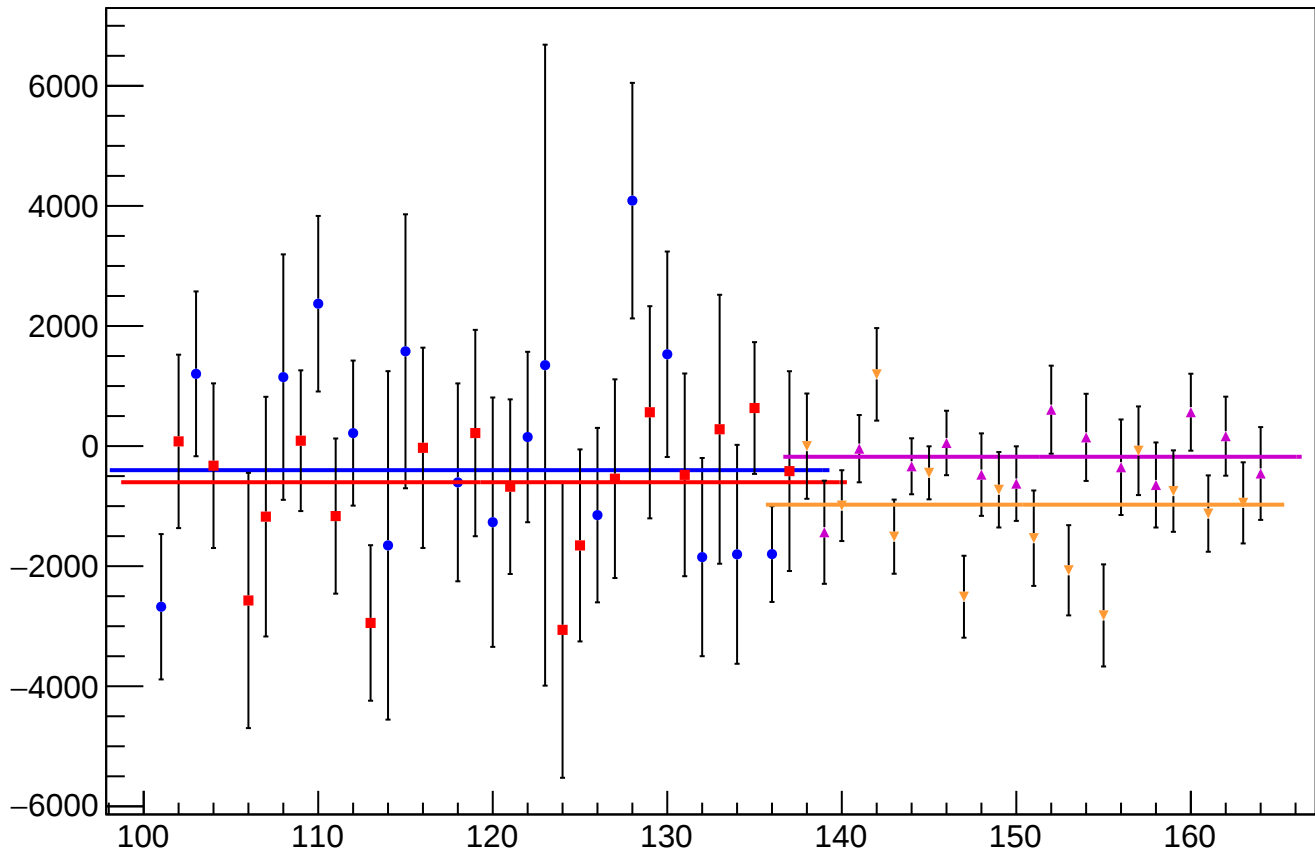
Left In: 74.130 $\pm$ 0.016     $\chi^2/\text{NDF}$ : 204221.9/12

+ sign 75.033 $\pm$ 0.013     $\chi^2/\text{NDF}$ : 784230.0/30

All: 75.689 $\pm$ 0.009     $\chi^2/\text{NDF}$ : 1500344.5/61

- sign 76.373 $\pm$ 0.013     $\chi^2/\text{NDF}$ : 710887.8/30

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: -401.047 $\pm$ 368.480  $\chi^2$ /NDF: 21.9/16

Left Out: -975.654 $\pm$ 177.605  $\chi^2$ /NDF: 25.5/13

Right Out: -601.891 $\pm$ 363.668  $\chi^2$ /NDF: 8.7/17

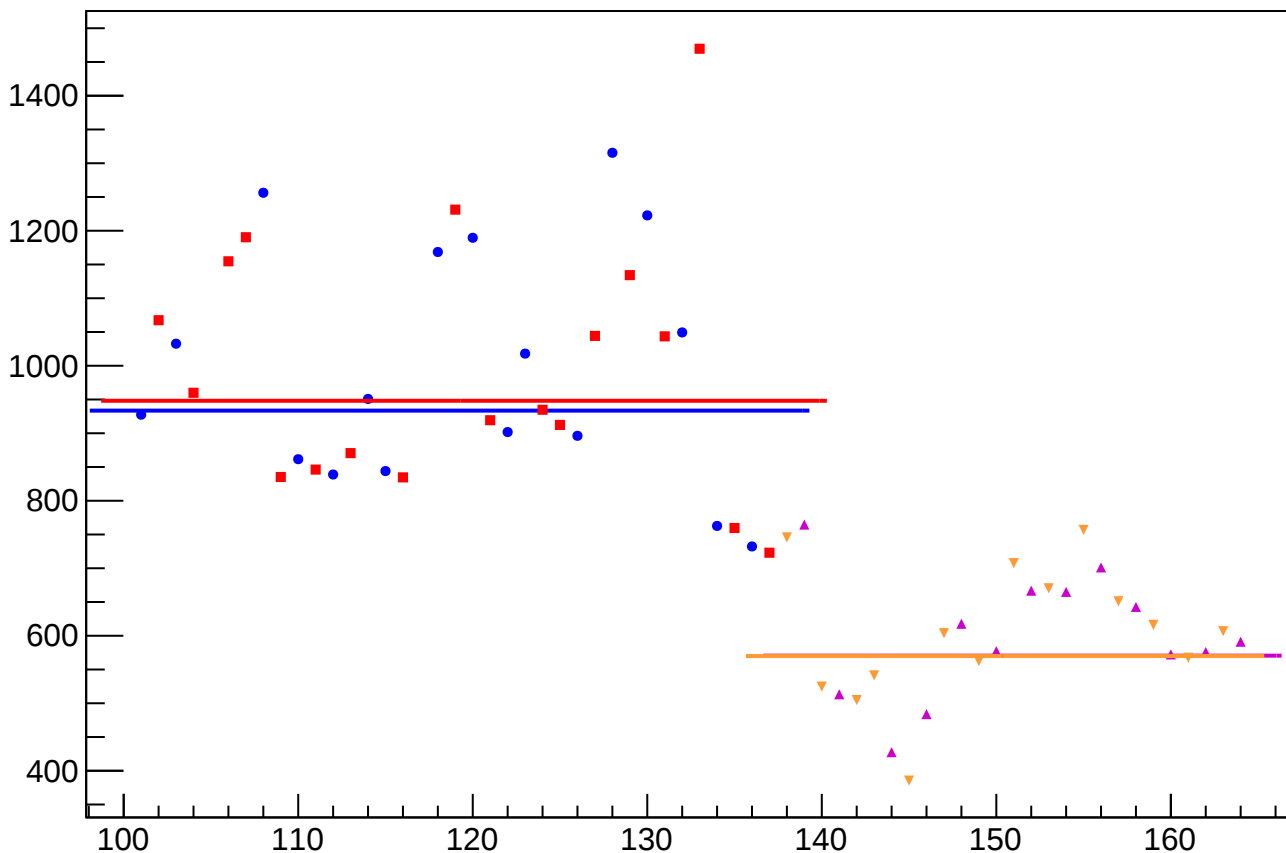
Left In: -178.018 $\pm$ 179.388  $\chi^2$ /NDF: 6.8/12

+ sign -867.328 $\pm$ 159.990  $\chi^2$ /NDF: 49.4/30

All: -565.830 $\pm$ 113.443  $\chi^2$ /NDF: 73.1/61

- sign -260.970 $\pm$ 160.880  $\chi^2$ /NDF: 16.5/30

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 933.530 $\pm$ 0.261  $\chi^2$ /NDF: 442321.9/16

Left Out: 569.931 $\pm$ 0.126  $\chi^2$ /NDF: 696957.6/13

Right Out: 948.131 $\pm$ 0.257  $\chi^2$ /NDF: 405153.7/17

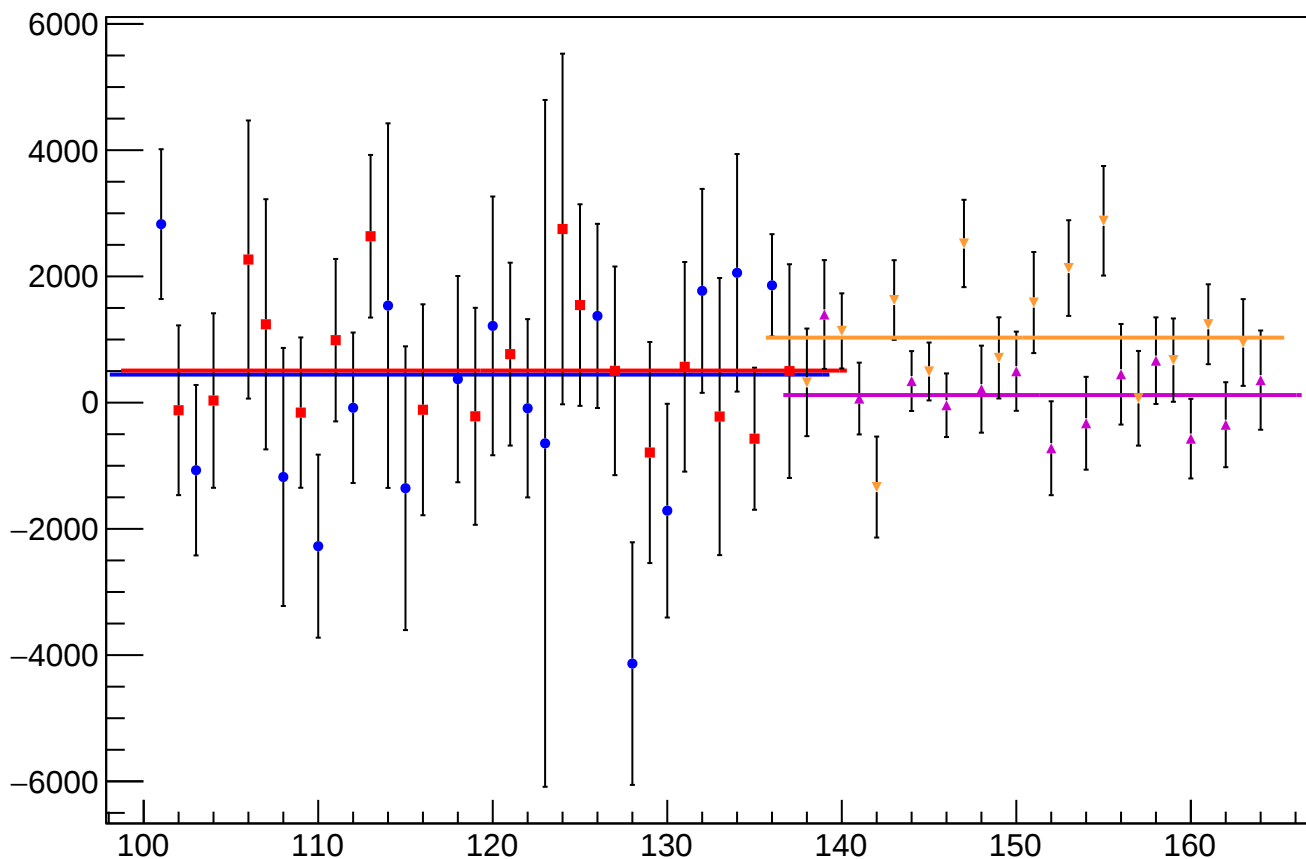
Left In: 570.531 $\pm$ 0.127  $\chi^2$ /NDF: 517639.0/12

+ sign 638.477 $\pm$ 0.113  $\chi^2$ /NDF: 2719529.6/30

All: 641.436 $\pm$ 0.080  $\chi^2$ /NDF: 5377907.9/61

- sign 644.428 $\pm$ 0.114  $\chi^2$ /NDF: 2657002.4/30

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 444.669 $\pm$ 367.099  $\chi^2$ /NDF: 22.9/16

Left Out: 1029.810 $\pm$ 180.025  $\chi^2$ /NDF:25.8/13

Right Out: 508.221 $\pm$ 364.112  $\chi^2$ /NDF: 7.3/17

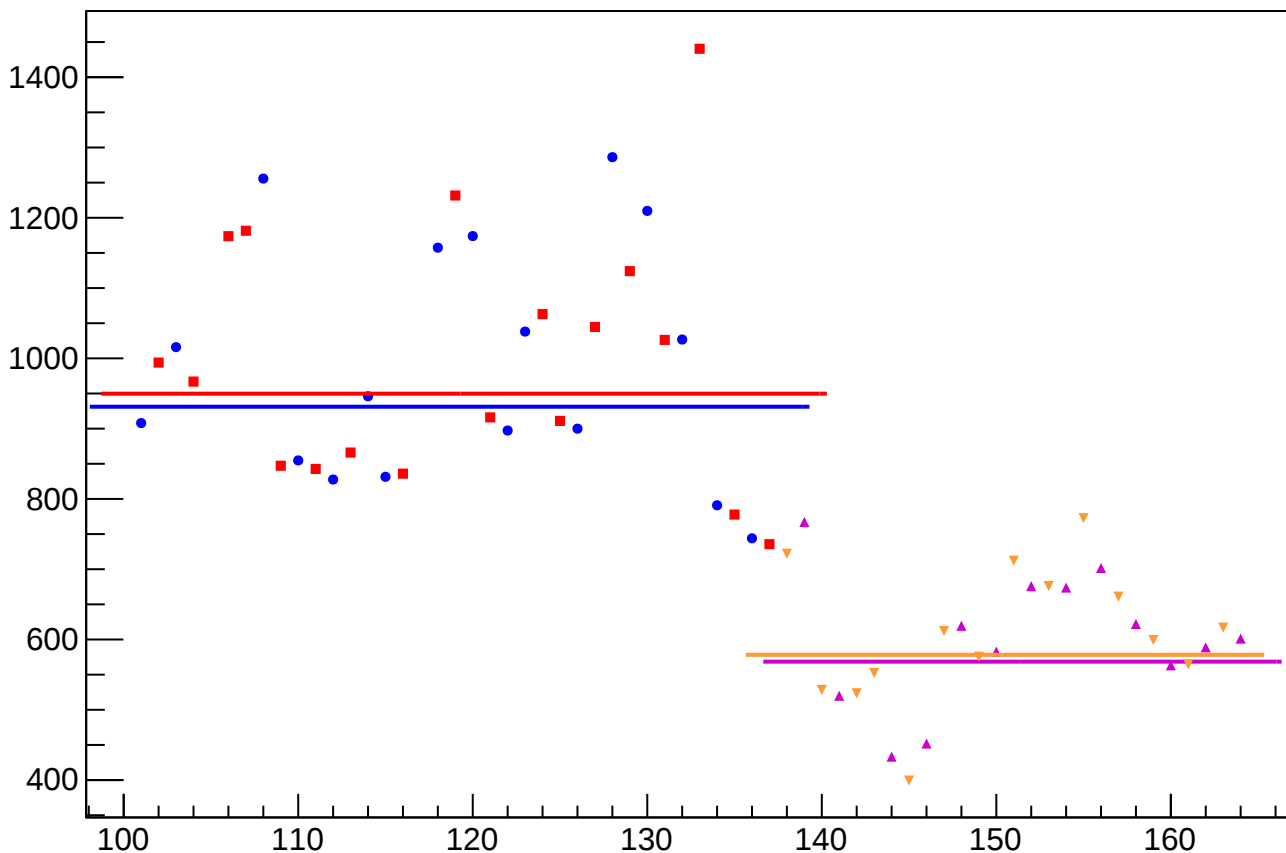
Left In: 120.000 $\pm$ 179.142  $\chi^2$ /NDF:7.1/12

+ sign 916.371 $\pm$ 161.635  $\chi^2$ /NDF: 50.8/30

All: 554.016 $\pm$ 113.976  $\chi^2$ /NDF: 76.1/61

- sign 195.659 $\pm$ 160.741  $\chi^2$ /NDF: 15.3/30

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 578.197 $\pm$ 0.127  $\chi^2$ /NDF: 616276.5/13

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

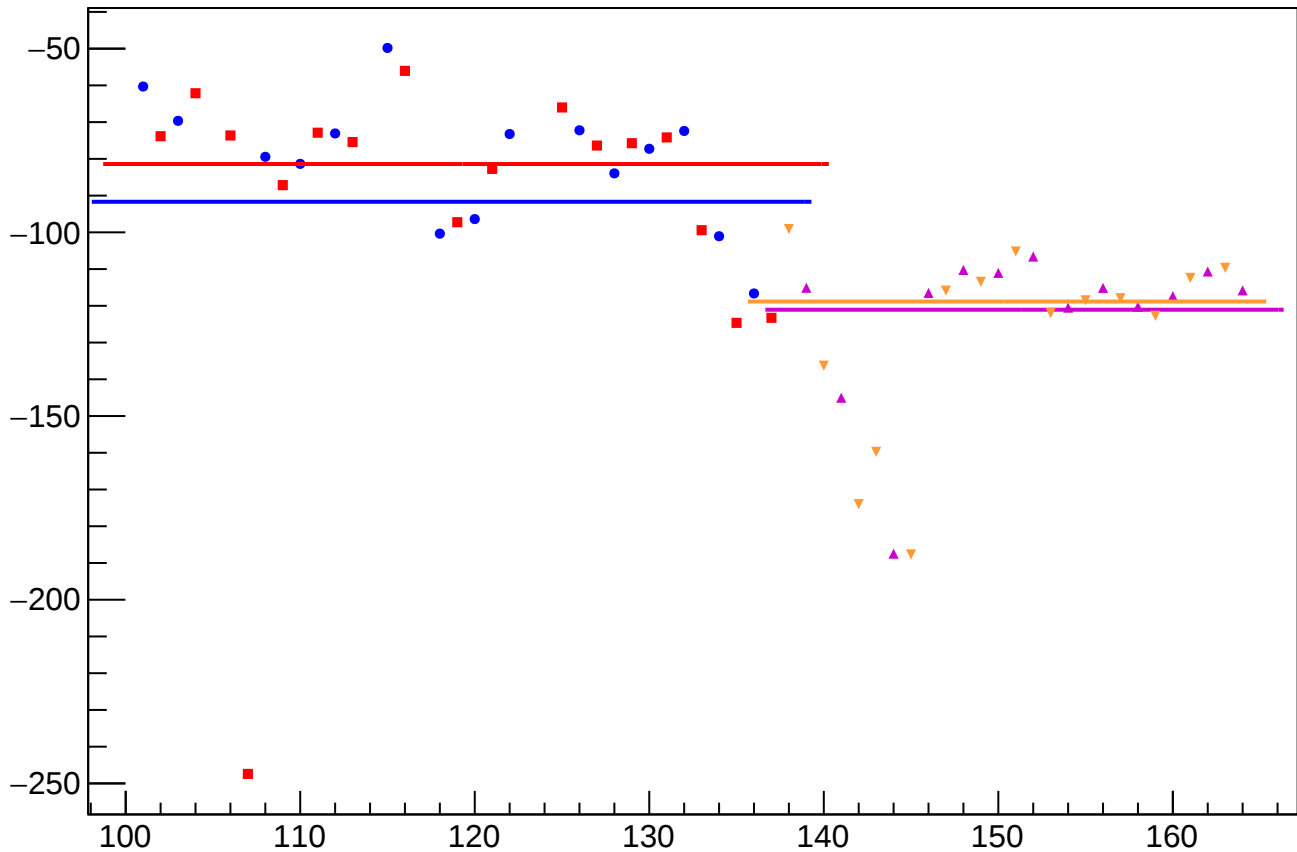
Left In: 568.477 $\pm$ 0.127  $\chi^2$ /NDF: 558603.2/12

+ sign 646.633 $\pm$ 0.114  $\chi^2$ /NDF: 2507370.8/30

All: 644.696 $\pm$ 0.081  $\chi^2$ /NDF: 5197594.3/61

- sign 642.780 $\pm$ 0.114  $\chi^2$ /NDF: 2689652.1/30

# dit\_usl\_4aX\_slope vs Slug



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-118.833 \pm 0.074$   $\chi^2/\text{NDF}$ : 26055.8/13

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

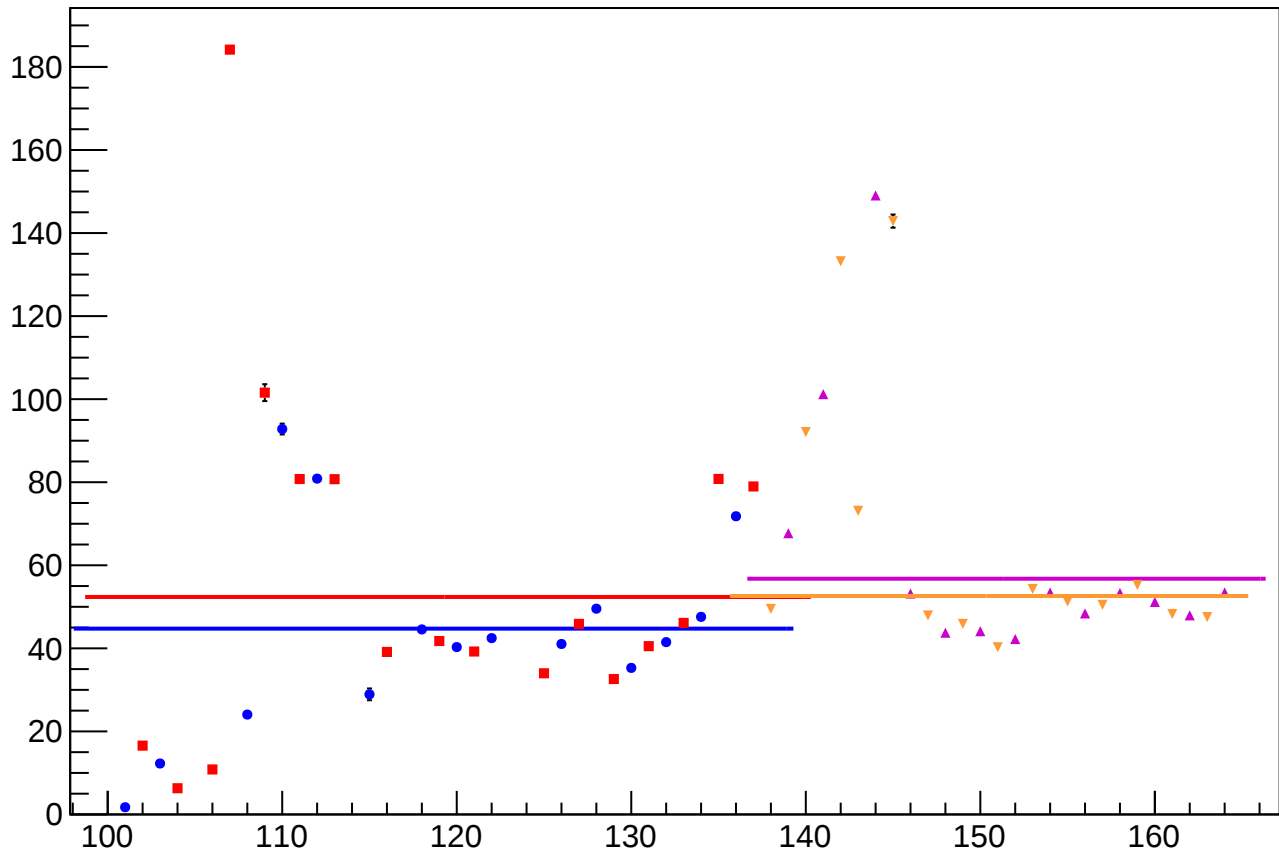
Left In:  $-121.061 \pm 0.073$   $\chi^2/\text{NDF}$ : 44891.3/12

+ sign  $-104.597 \pm 0.051$   $\chi^2/\text{NDF}$ : 161987.4/28

All:  $-105.595 \pm 0.038$   $\chi^2/\text{NDF}$ : 353888.9/58

- sign  $-106.932 \pm 0.059$   $\chi^2/\text{NDF}$ : 190997.8/29

# dit\_usl\_4eX\_slope vs Slug



Right In: 44.745 $\pm$ 0.061  $\chi^2$ /NDF: 84697.9/14

Left Out: 52.604 $\pm$ 0.060  $\chi^2$ /NDF: 43426.6/13

Right Out: 52.367 $\pm$ 0.113  $\chi^2$ /NDF: 69285.2/16

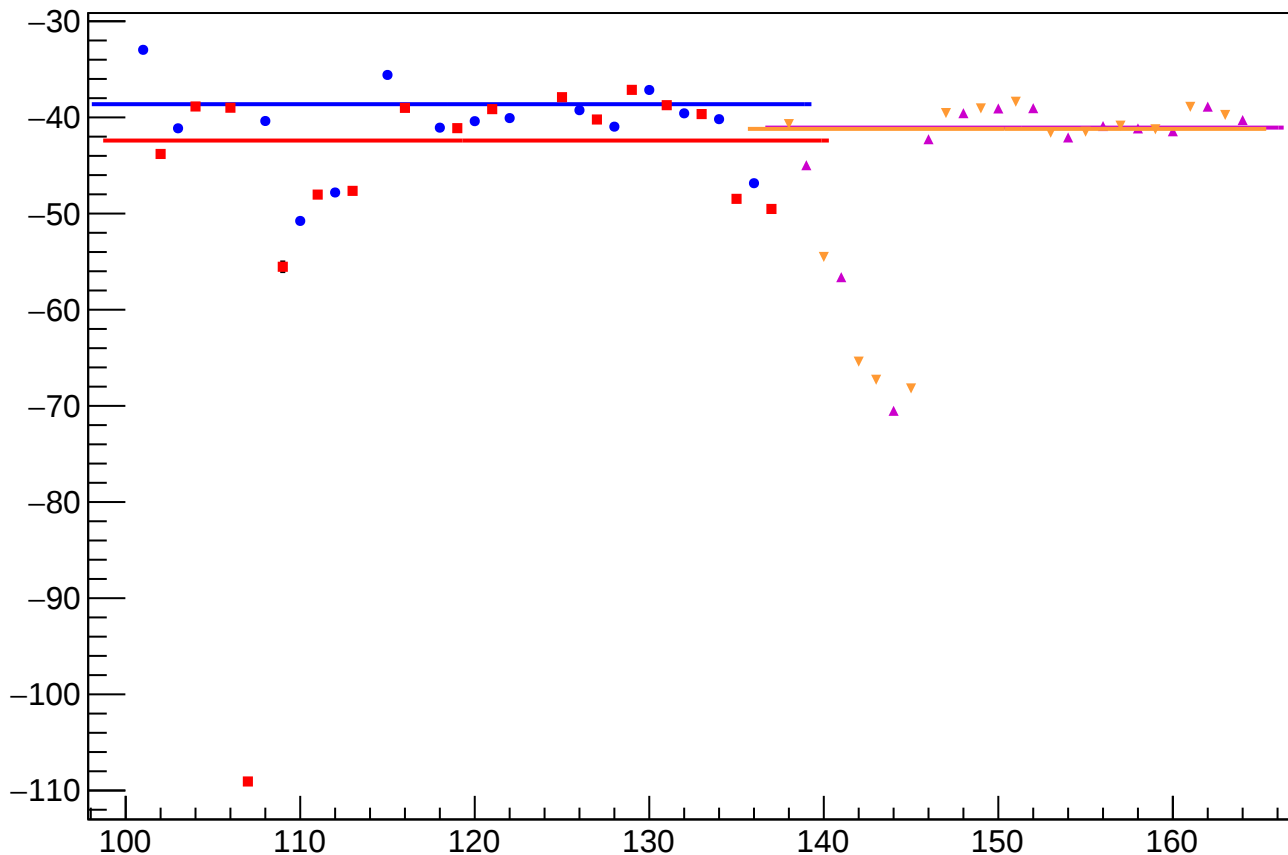
Left In: 56.765 $\pm$ 0.063  $\chi^2$ /NDF: 109067.2/12

+ sign 48.680 $\pm$ 0.043  $\chi^2$ /NDF: 136554.2/28

All: 51.352 $\pm$ 0.034  $\chi^2$ /NDF: 326347.7/58

- sign 55.725 $\pm$ 0.055  $\chi^2$ /NDF: 179518.1/29

# dit\_usl\_11X12X\_slope vs Slug



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}$ : 240108.7/14

Left Out:  $-41.193 \pm 0.009$   $\chi^2/\text{NDF}$ : 190038.7/13

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}$ : 269138.5/16

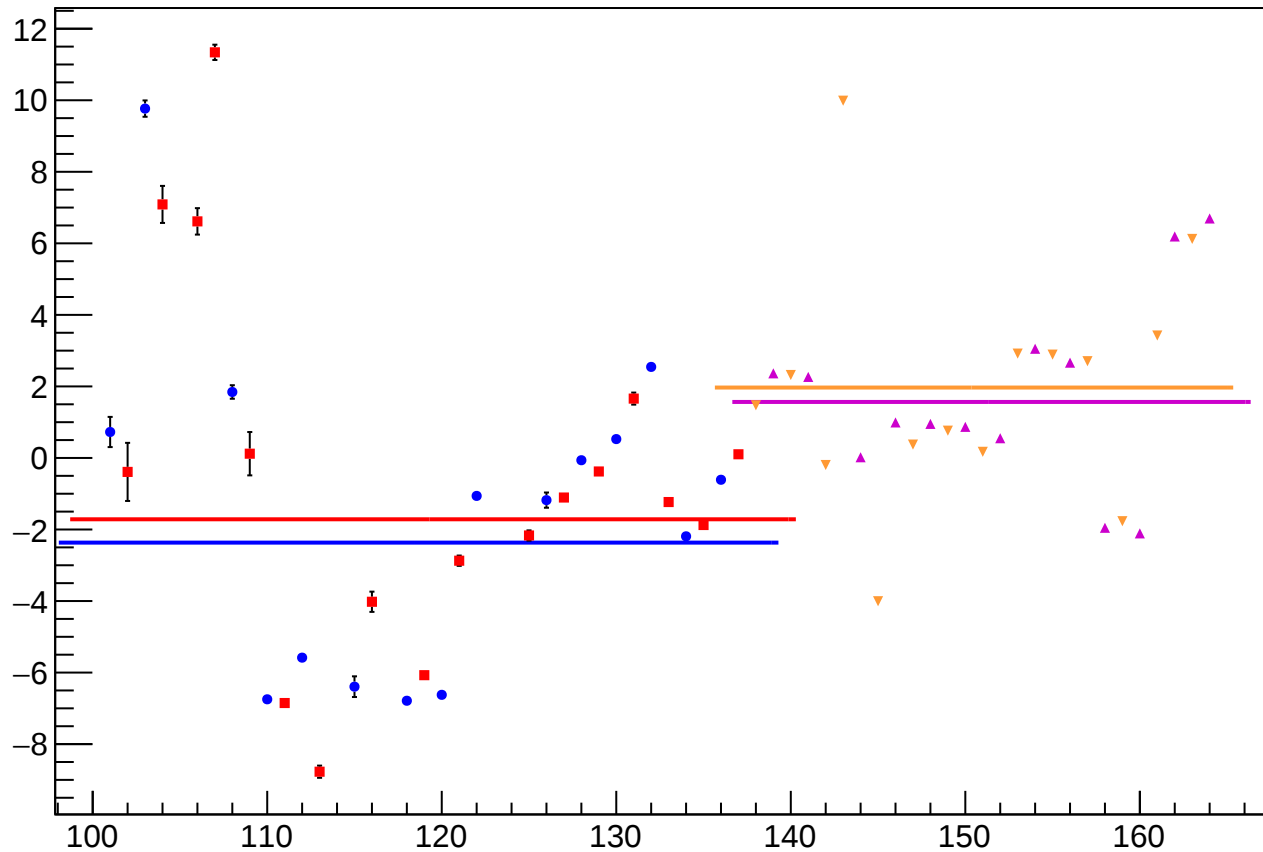
Left In:  $-41.061 \pm 0.010$   $\chi^2/\text{NDF}$ : 149497.8/12

+ sign  $-39.818 \pm 0.006$   $\chi^2/\text{NDF}$ : 474964.9/28

All:  $-40.296 \pm 0.005$   $\chi^2/\text{NDF}$ : 916076.8/58

- sign  $-41.286 \pm 0.009$   $\chi^2/\text{NDF}$ : 421961.8/29

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}: 28797.3/14$

Left Out:  $1.969 \pm 0.009$   $\chi^2/\text{NDF}: 71474.9/13$

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}: 12719.3/16$

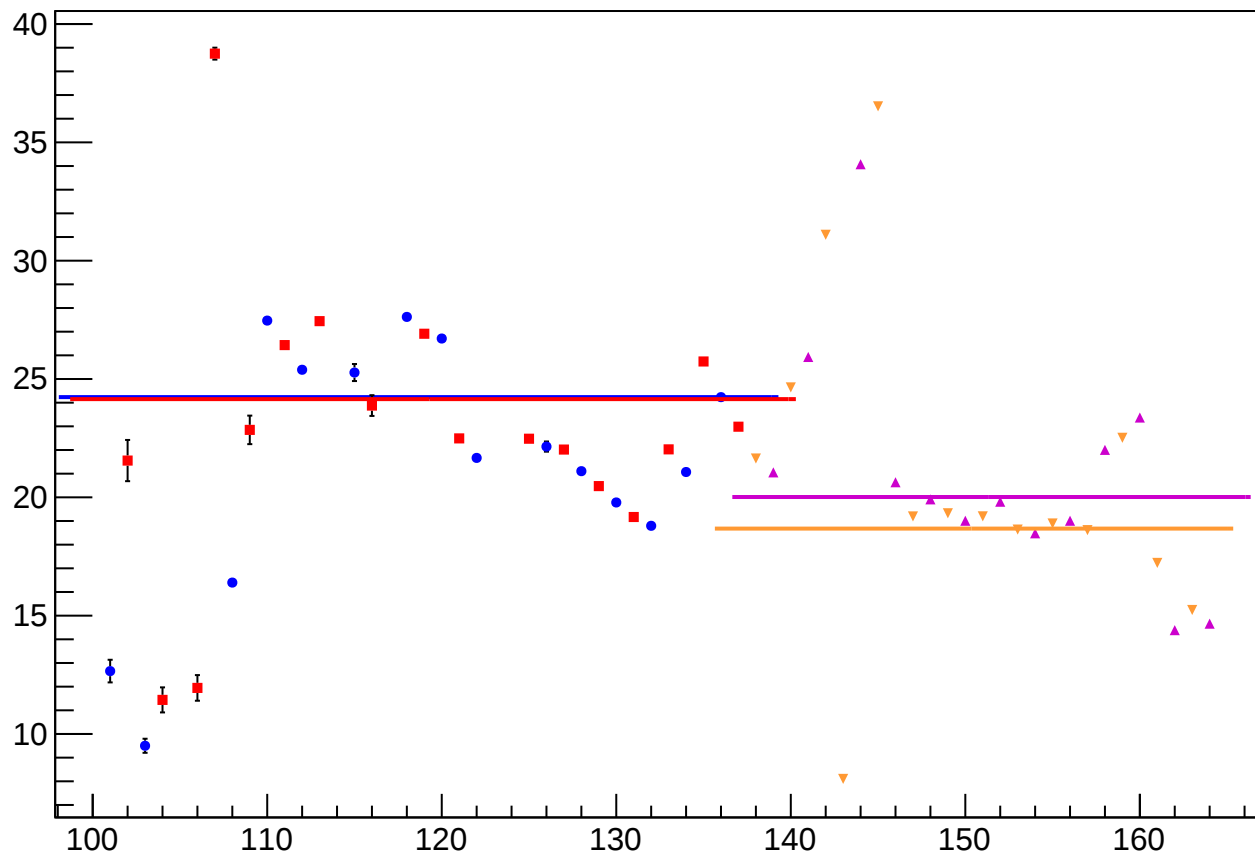
Left In:  $1.566 \pm 0.008$   $\chi^2/\text{NDF}: 77090.5/12$

+ sign  $0.643 \pm 0.008$   $\chi^2/\text{NDF}: 166150.9/28$

All:  $0.944 \pm 0.006$   $\chi^2/\text{NDF}: 272519.8/58$

- sign  $1.270 \pm 0.008$   $\chi^2/\text{NDF}: 103252.3/29$

# dit\_usl\_4eY\_slope vs Slug



Right In:  $24.235 \pm 0.022$   $\chi^2/\text{NDF}: 21896.9/14$

Left Out:  $18.679 \pm 0.009$   $\chi^2/\text{NDF}: 70509.1/13$

Right Out:  $24.150 \pm 0.024$   $\chi^2/\text{NDF}: 13222.6/16$

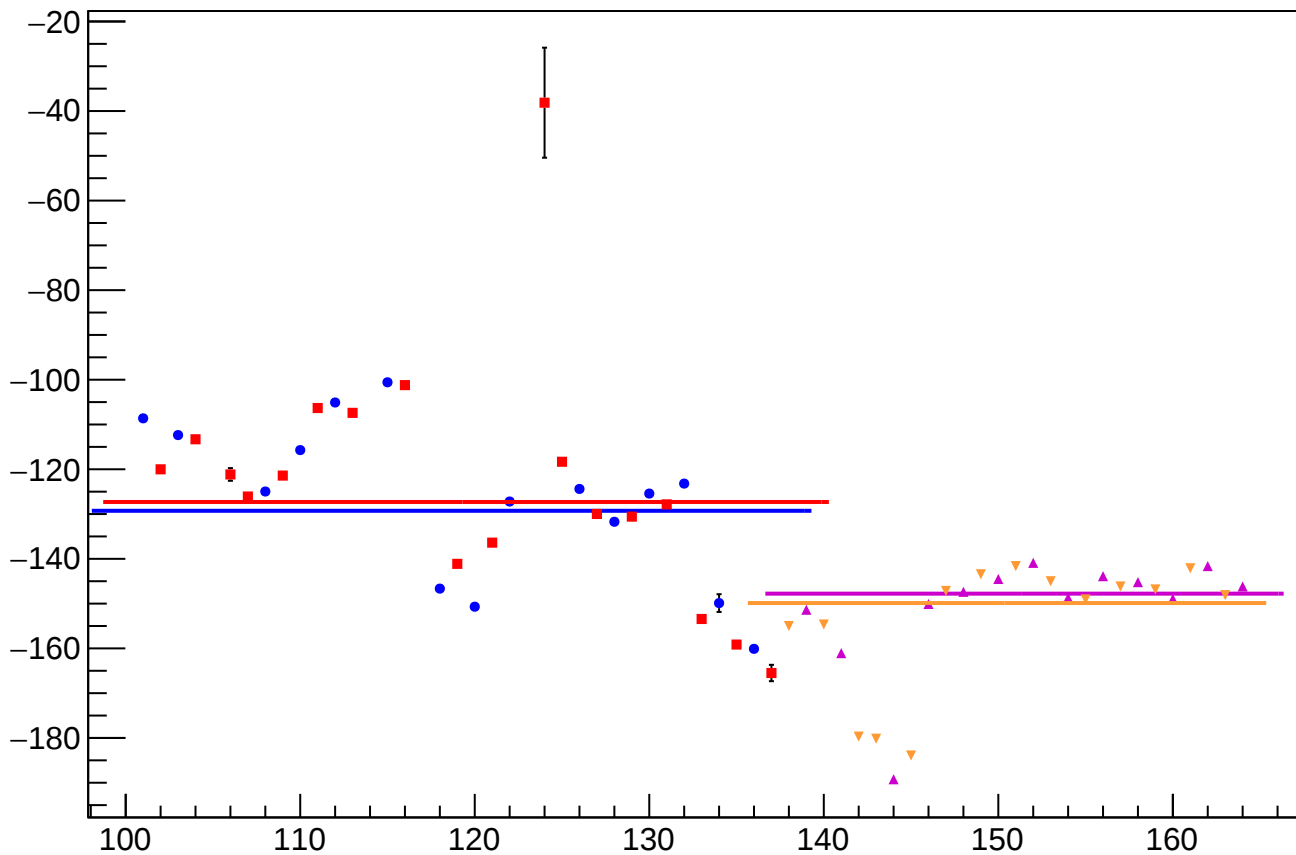
Left In:  $20.014 \pm 0.009$   $\chi^2/\text{NDF}: 87329.1/12$

+ sign  $19.543 \pm 0.009$   $\chi^2/\text{NDF}: 146159.9/28$

All:  $20.039 \pm 0.006$   $\chi^2/\text{NDF}: 278441.0/58$

- sign  $20.471 \pm 0.008$   $\chi^2/\text{NDF}: 126173.7/29$

# dit\_usr\_4aX\_slope vs Slug



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}$ : 35109.7/14

Left Out:  $-149.871 \pm 0.064$   $\chi^2/\text{NDF}$ : 27796.1/13

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}$ : 29597.3/17

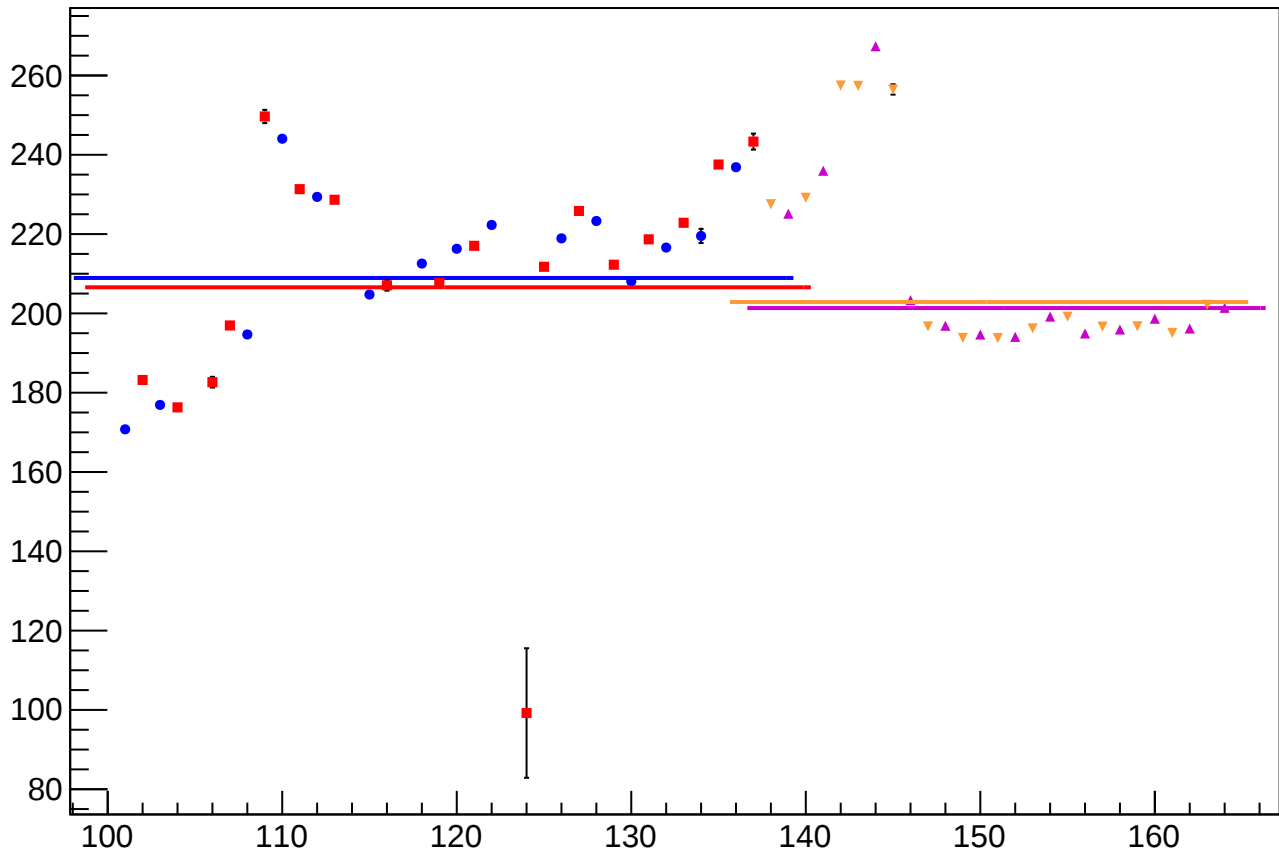
Left In:  $-147.776 \pm 0.058$   $\chi^2/\text{NDF}$ : 22331.6/12

+ sign  $-142.730 \pm 0.052$   $\chi^2/\text{NDF}$ : 98888.5/28

All:  $-141.905 \pm 0.035$   $\chi^2/\text{NDF}$ : 191306.6/59

- sign  $-141.198 \pm 0.048$   $\chi^2/\text{NDF}$ : 91944.4/30

# dit\_usr\_4eX\_slope vs Slug



Right In: 208.934 $\pm$ 0.089  $\chi^2$ /NDF: 44684.8/14

Left Out: 202.865 $\pm$ 0.052  $\chi^2$ /NDF: 102951.1/13

Right Out: 206.581 $\pm$ 0.083  $\chi^2$ /NDF: 48210.8/17

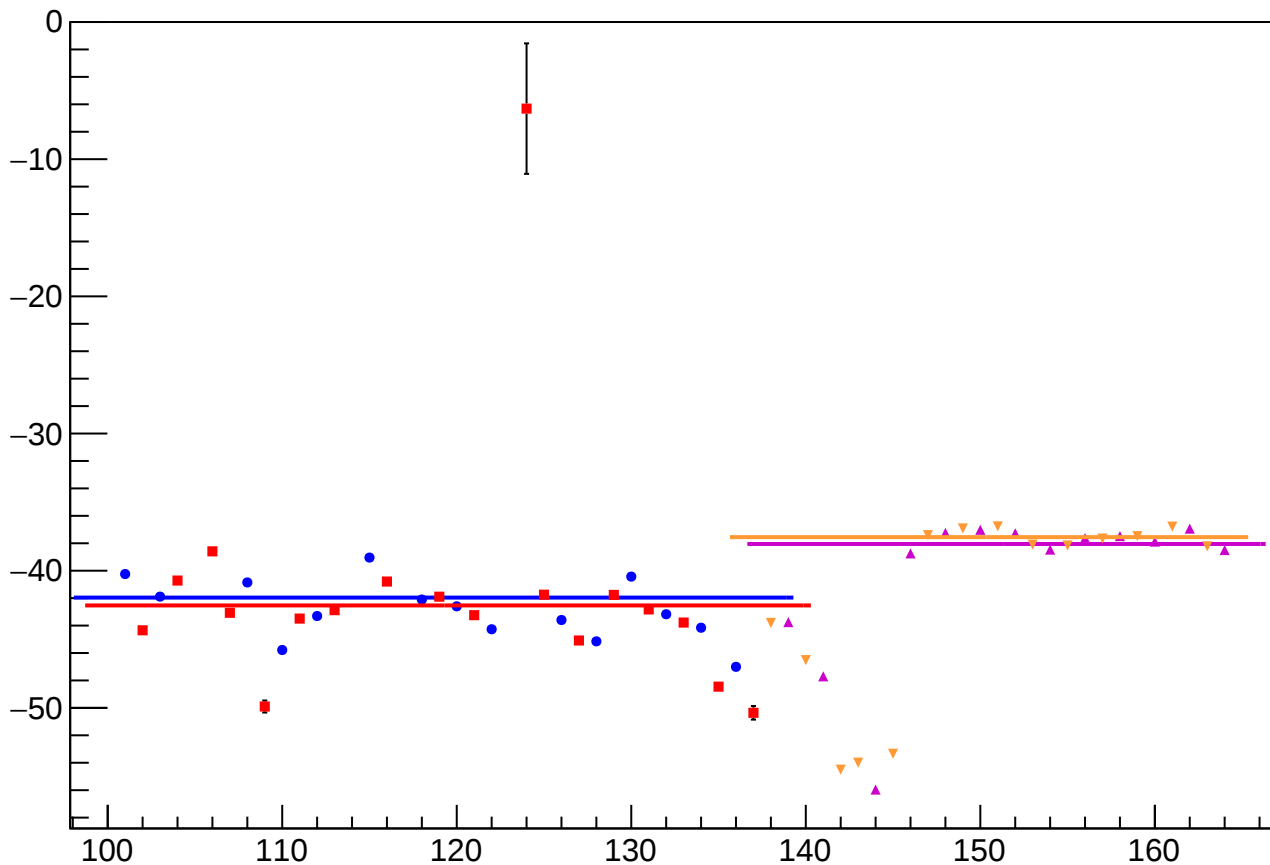
Left In: 201.345 $\pm$ 0.050  $\chi^2$ /NDF: 76146.0/12

+ sign 204.413 $\pm$ 0.045  $\chi^2$ /NDF: 151083.4/28

All: 203.517 $\pm$ 0.031  $\chi^2$ /NDF: 279112.5/59

- sign 202.717 $\pm$ 0.043  $\chi^2$ /NDF: 127280.4/30

# dit\_usr\_11X12X\_slope vs Slug



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.552 \pm 0.005$   $\chi^2/\text{NDF}$ : 220724.0/13

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

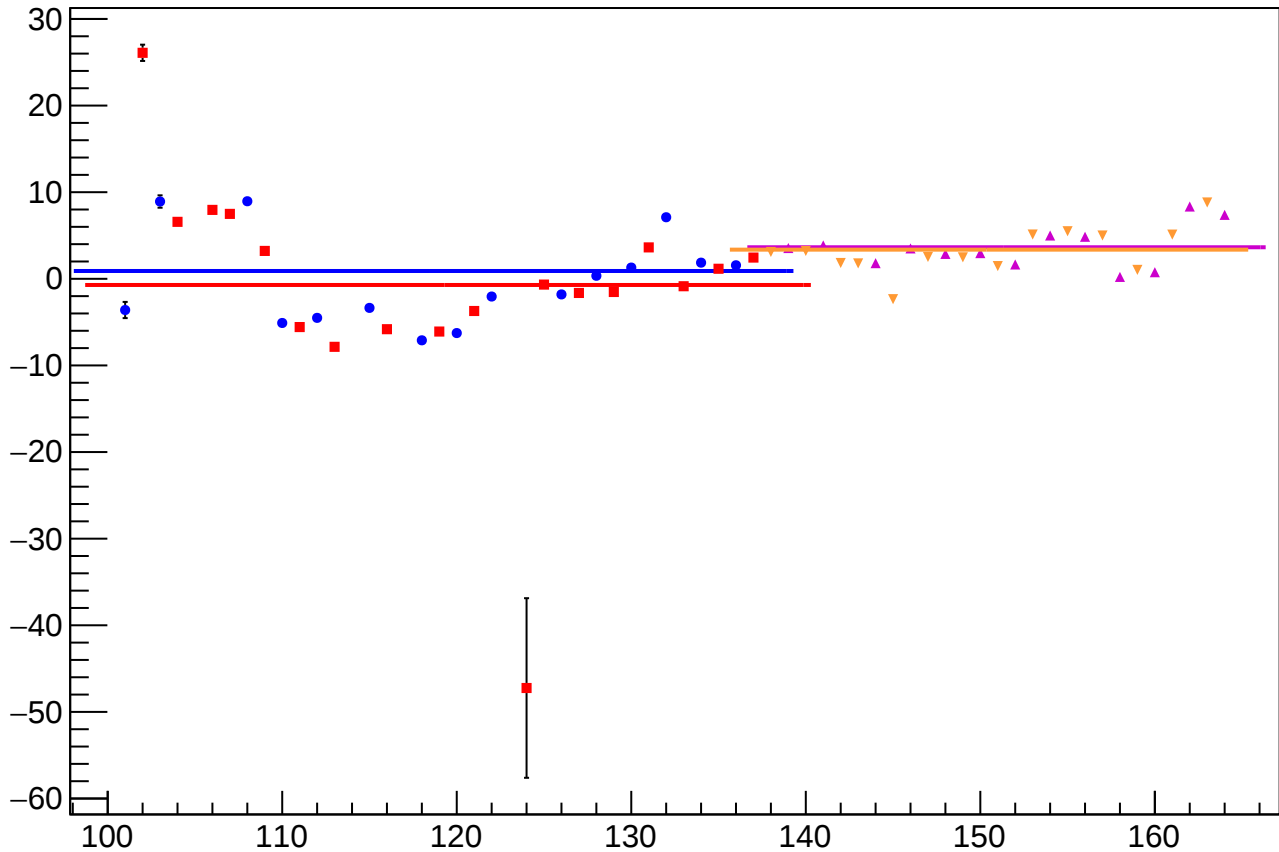
Left In:  $-38.051 \pm 0.005$   $\chi^2/\text{NDF}$ : 132984.9/12

+ sign  $-37.909 \pm 0.004$   $\chi^2/\text{NDF}$ : 318239.8/28

All:  $-38.087 \pm 0.003$   $\chi^2/\text{NDF}$ : 505326.5/59

- sign  $-38.309 \pm 0.005$   $\chi^2/\text{NDF}$ : 183477.0/30

# dit\_usr\_4aY\_slope vs Slug



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 21140.4/14

Left Out:  $3.367 \pm 0.009$   $\chi^2/\text{NDF}$ : 72505.2/13

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}$ : 30723.8/17

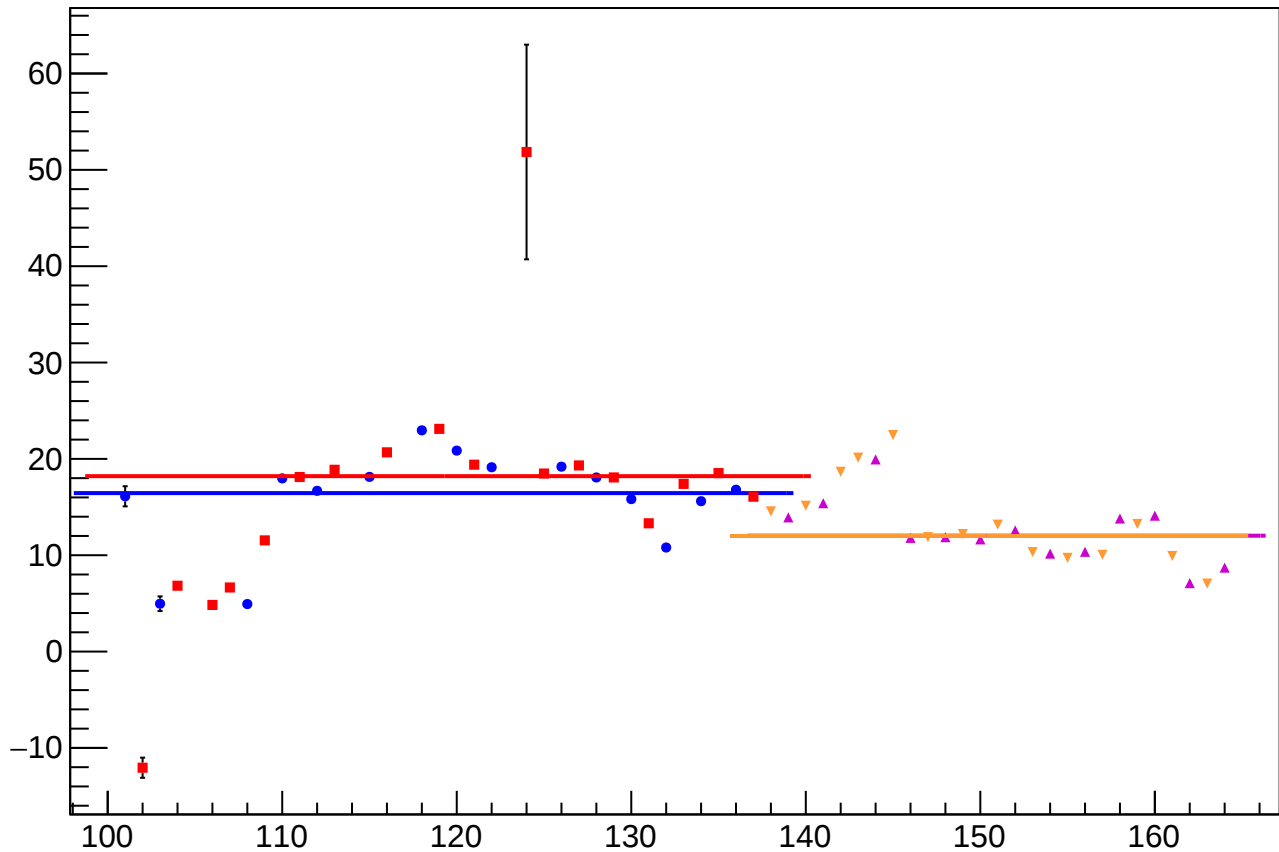
Left In:  $3.642 \pm 0.009$   $\chi^2/\text{NDF}$ : 62508.9/12

+ sign  $2.960 \pm 0.008$   $\chi^2/\text{NDF}$ : 106256.2/28

All:  $3.060 \pm 0.006$   $\chi^2/\text{NDF}$ : 228319.1/59

- sign  $3.159 \pm 0.008$   $\chi^2/\text{NDF}$ : 121761.3/30

# dit\_usr\_4eY\_slope vs Slug



Right In:  $16.447 \pm 0.024$   $\chi^2/\text{NDF}$ : 14183.1/14

Left Out:  $11.997 \pm 0.010$   $\chi^2/\text{NDF}$ : 86605.0/13

Right Out:  $18.207 \pm 0.020$   $\chi^2/\text{NDF}$ : 27493.7/17

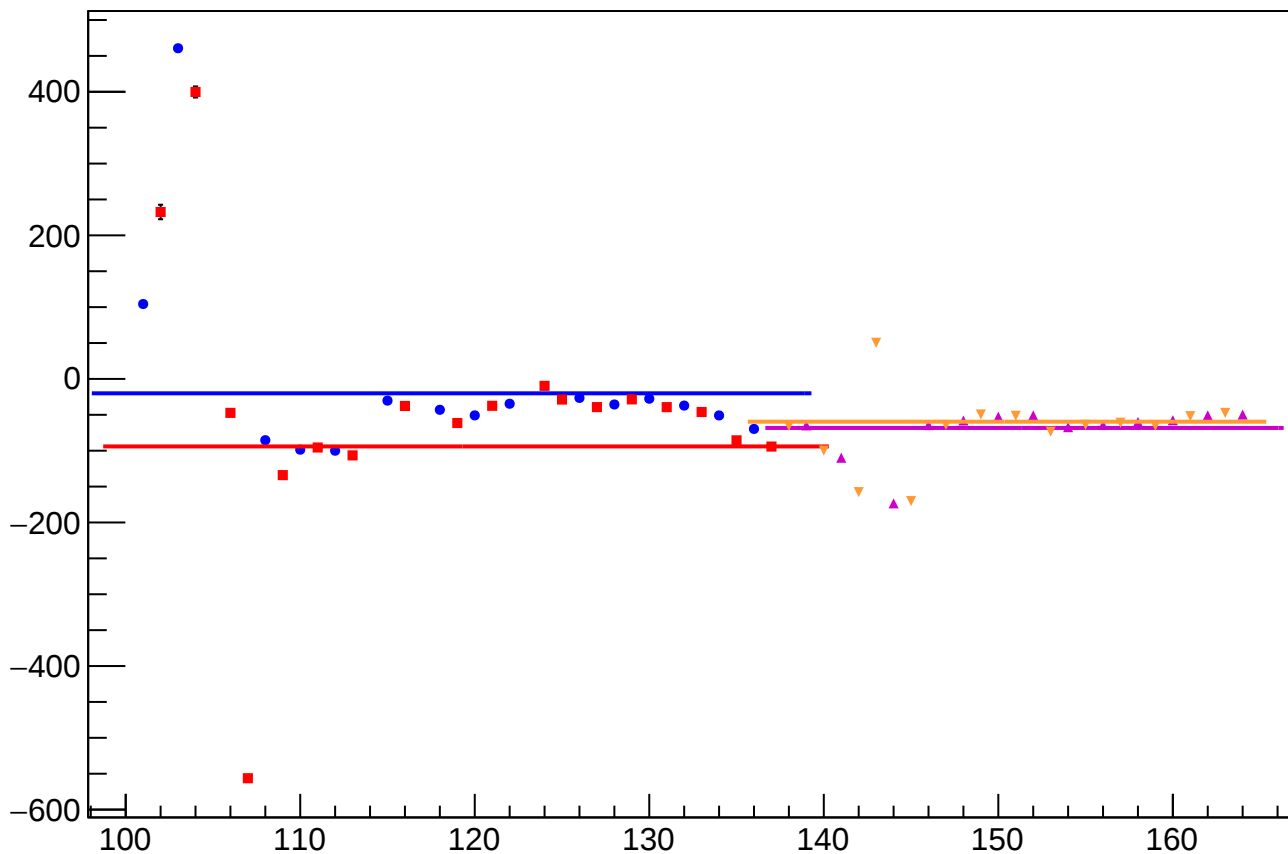
Left In:  $12.029 \pm 0.010$   $\chi^2/\text{NDF}$ : 45234.0/12

+ sign  $12.662 \pm 0.009$   $\chi^2/\text{NDF}$ : 129066.6/28

All:  $12.992 \pm 0.007$   $\chi^2/\text{NDF}$ : 276621.8/59

- sign  $13.315 \pm 0.009$   $\chi^2/\text{NDF}$ : 145129.6/30

# dit\_atl1\_4aX\_slope vs Slug



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-59.598 \pm 0.125$   $\chi^2/\text{NDF}: 46138.8/13$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

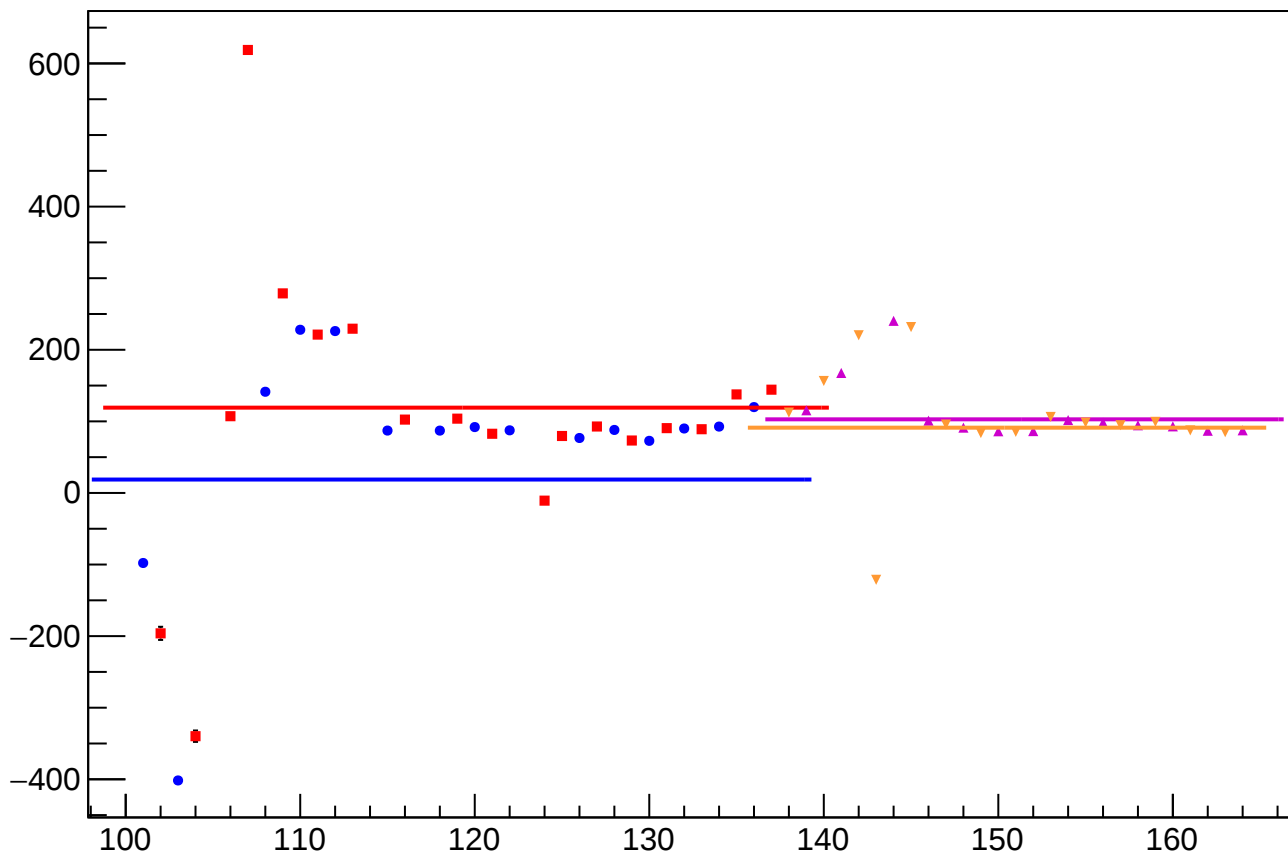
Left In:  $-68.309 \pm 0.144$   $\chi^2/\text{NDF}: 37981.6/12$

+ sign  $-43.739 \pm 0.097$   $\chi^2/\text{NDF}: 527521.3/28$

All:  $-93.055 \pm 0.012$   $\chi^2/\text{NDF}: 947444.3/59$

- sign  $-93.860 \pm 0.012$   $\chi^2/\text{NDF}: 157172.1/30$

# dit\_atl1\_4eX\_slope vs Slug



Right In:  $18.731 \pm 0.152$   $\chi^2/\text{NDF}: 1101803.8/14$

Left Out:  $91.189 \pm 0.106$   $\chi^2/\text{NDF}: 167690.1/13$

Right Out:  $119.167 \pm 0.199$   $\chi^2/\text{NDF}: 87450.0/17$

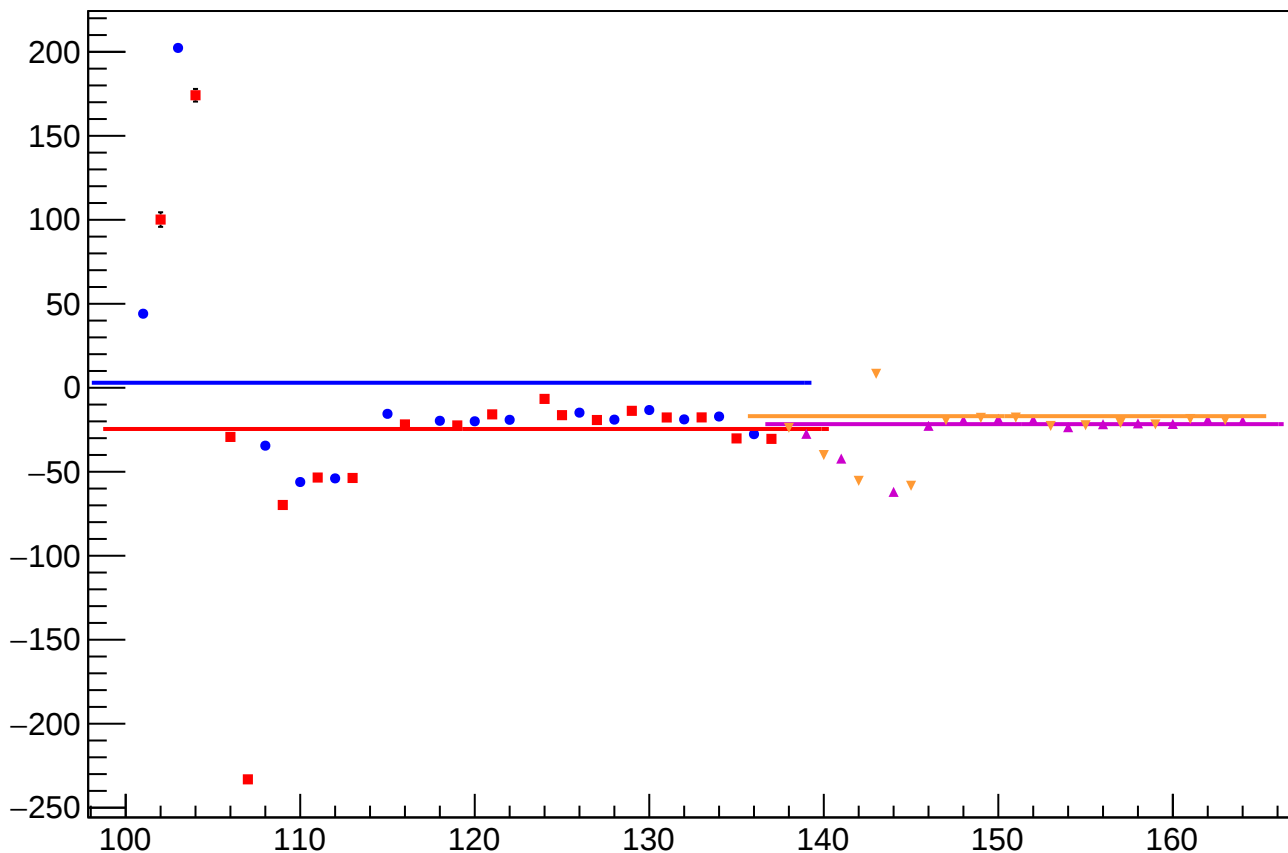
Left In:  $102.845 \pm 0.124$   $\chi^2/\text{NDF}: 59177.1/12$

+ sign  $67.564 \pm 0.087$   $\chi^2/\text{NDF}: 1422488.1/28$

All:  $83.733 \pm 0.067$   $\chi^2/\text{NDF}: 1659332.2/59$

- sign  $107.379 \pm 0.105$   $\chi^2/\text{NDF}: 151473.7/30$

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}$ : 3496745.8/14

Left Out:  $-16.899 \pm 0.015$   $\chi^2/\text{NDF}$ : 570013.4/13

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}$ : 176488.8/17

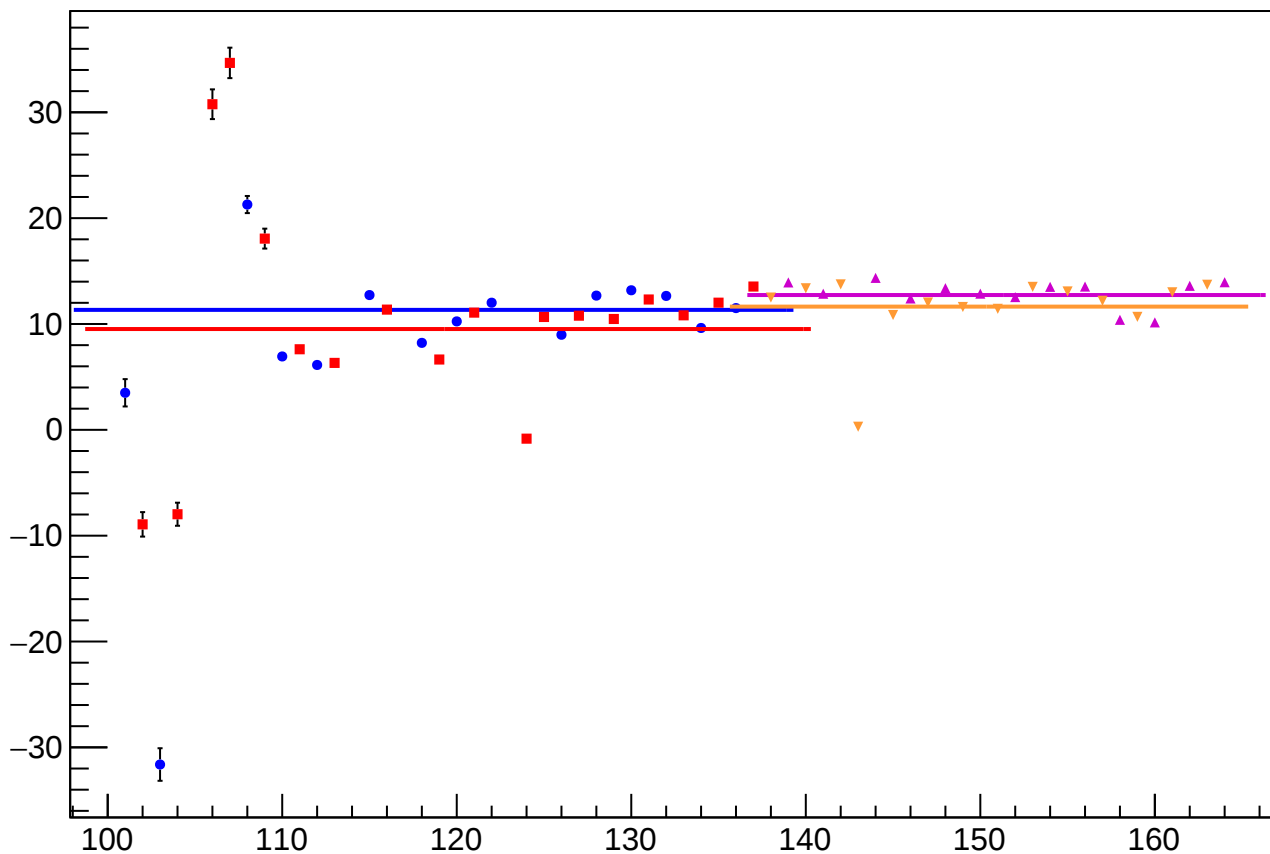
Left In:  $-21.650 \pm 0.017$   $\chi^2/\text{NDF}$ : 122577.2/12

+ sign  $-12.240 \pm 0.013$   $\chi^2/\text{NDF}$ : 4485839.9/28

All:  $-16.160 \pm 0.010$   $\chi^2/\text{NDF}$ : 5015438.1/59

- sign  $-22.034 \pm 0.016$   $\chi^2/\text{NDF}$ : 302850.0/30

# dit\_atl1\_4aY\_slope vs Slug



Right In:  $11.334 \pm 0.037$   $\chi^2/\text{NDF}$ : 2406.0/14

Left Out:  $11.642 \pm 0.019$   $\chi^2/\text{NDF}$ : 30087.4/13

Right Out:  $9.524 \pm 0.048$   $\chi^2/\text{NDF}$ : 4066.9/17

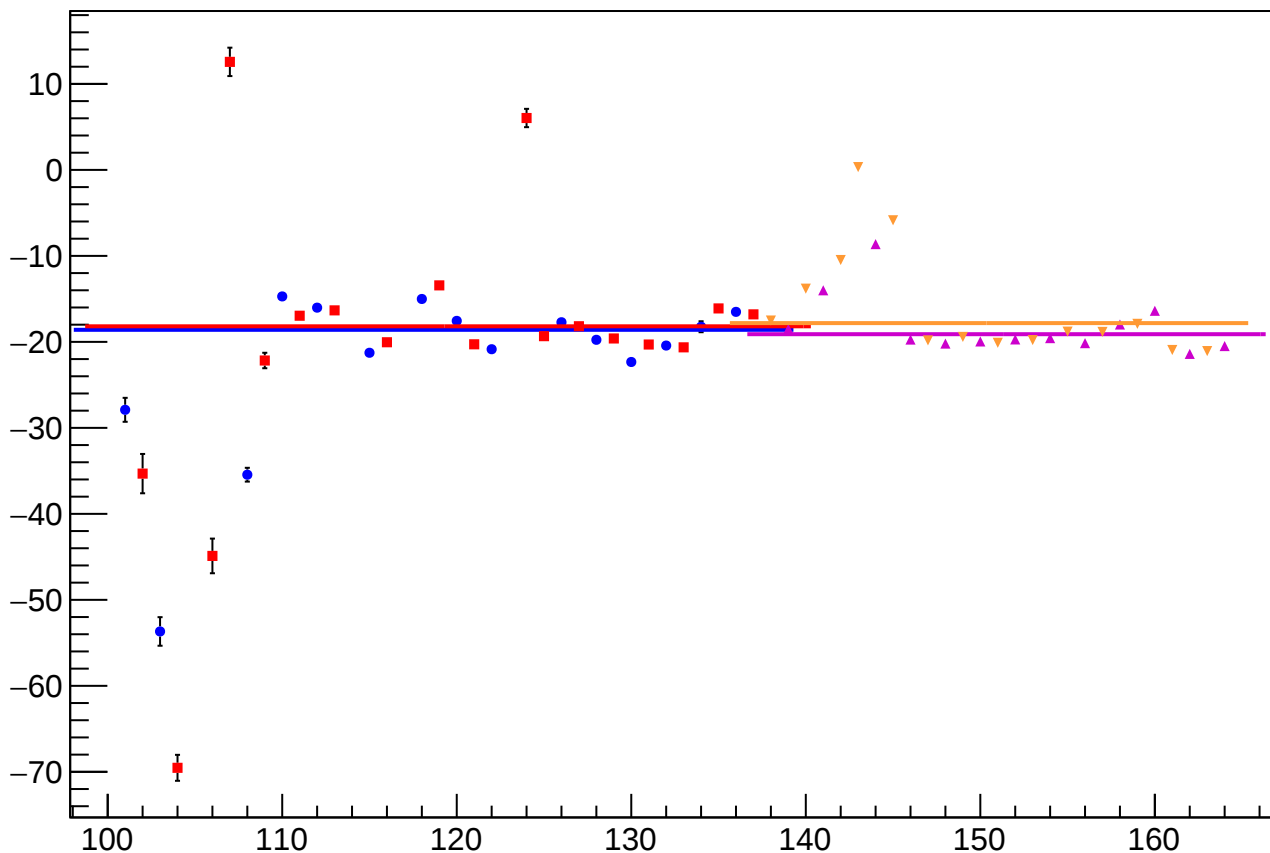
Left In:  $12.736 \pm 0.017$   $\chi^2/\text{NDF}$ : 4905.2/12

+ sign  $11.580 \pm 0.017$   $\chi^2/\text{NDF}$ : 32547.7/28

All:  $12.005 \pm 0.012$   $\chi^2/\text{NDF}$ : 46714.7/59

- sign  $12.385 \pm 0.016$   $\chi^2/\text{NDF}$ : 12958.4/30

# dit\_atl1\_4eY\_slope vs Slug



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14

Left Out:  $-17.816 \pm 0.021$   $\chi^2/\text{NDF}$ : 47412.6/13

Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17

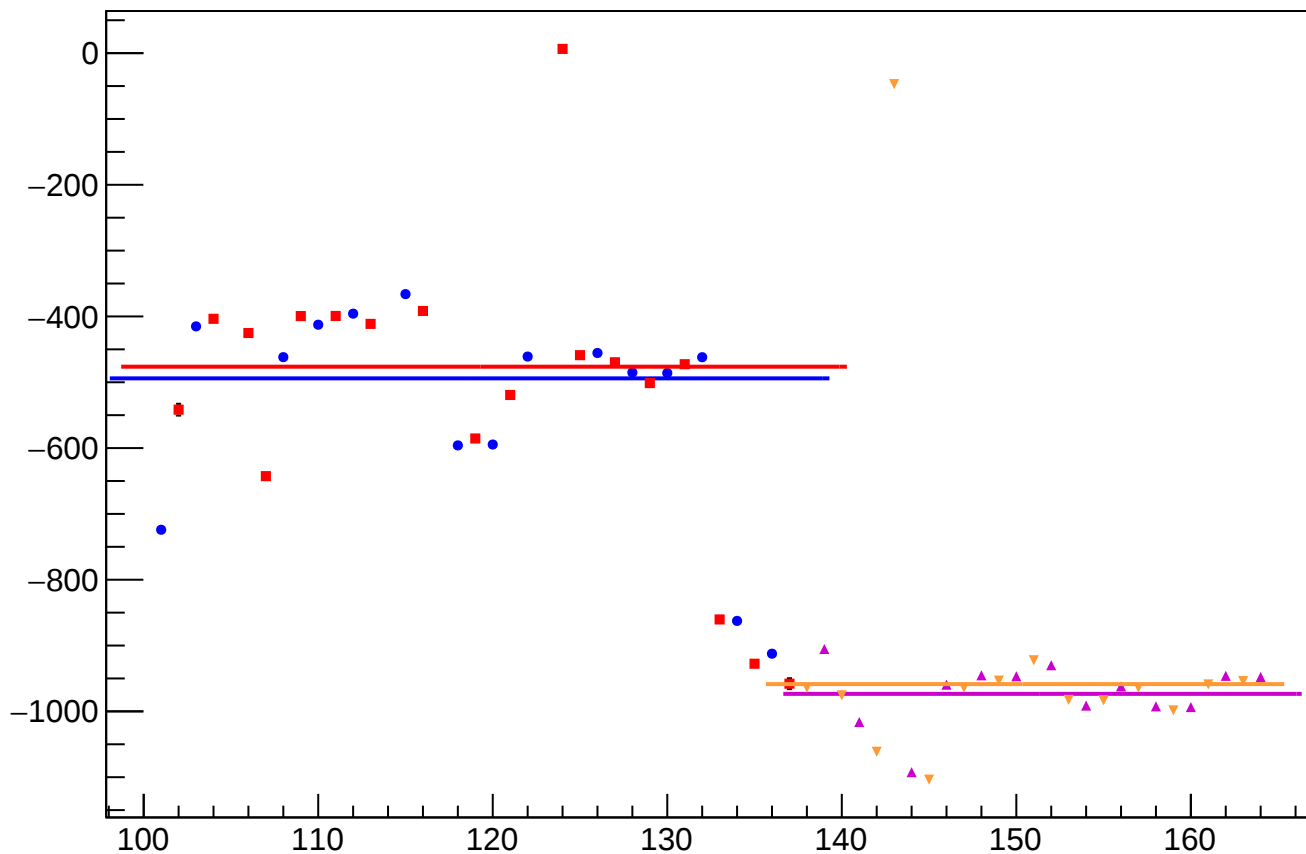
Left In:  $-19.107 \pm 0.020$   $\chi^2/\text{NDF}$ : 8582.1/12

+ sign  $-18.007 \pm 0.018$   $\chi^2/\text{NDF}$ : 53934.9/28

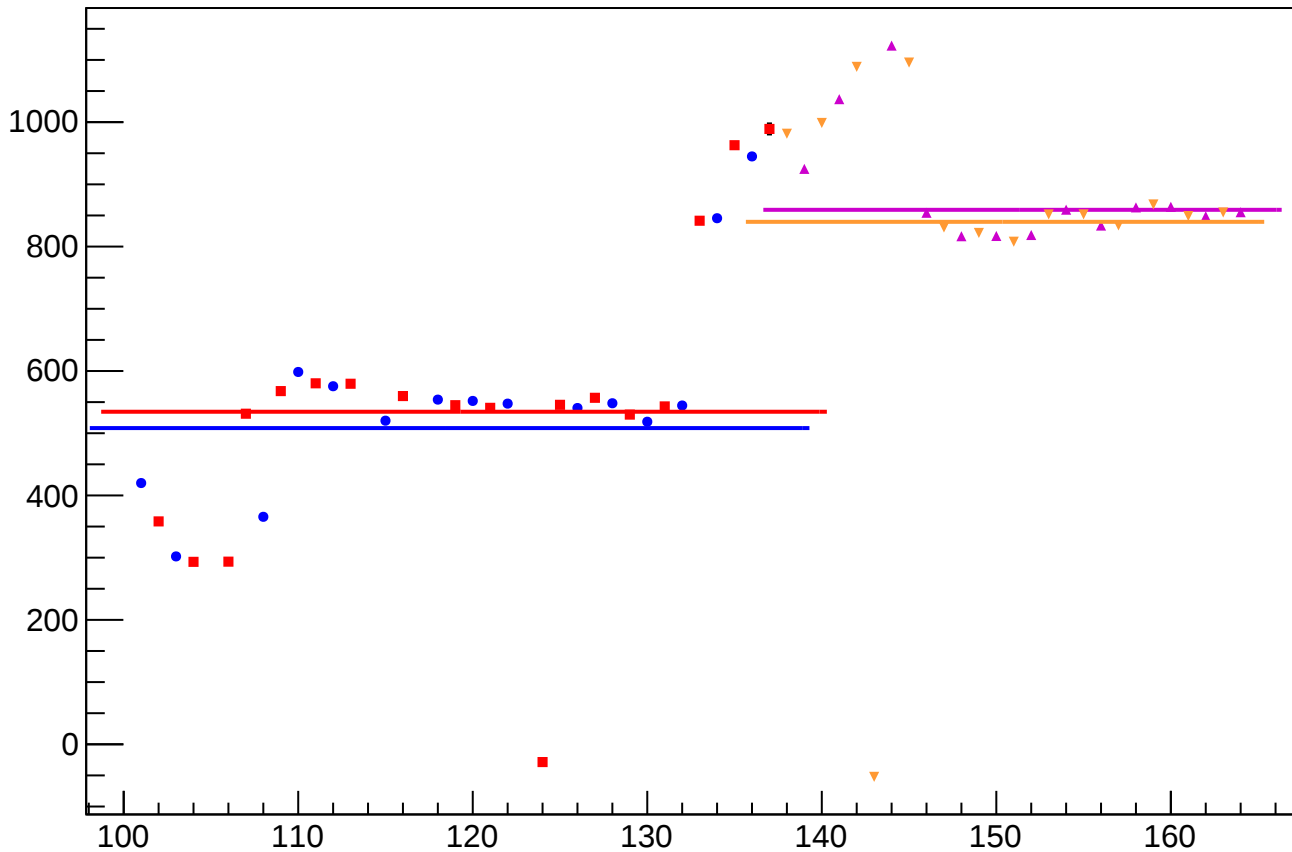
All:  $-18.493 \pm 0.013$   $\chi^2/\text{NDF}$ : 69098.6/59

- sign  $-18.980 \pm 0.018$   $\chi^2/\text{NDF}$ : 13759.7/30

# dit\_atl2\_4aX\_slope vs Slug



dit\_atl2\_4eX\_slope vs Slug



Right In: 508.267+/-0.222  $\chi^2/\text{NDF}$ : 439489.9/14

Left Out: 839.782+/-0.166  $\chi^2/\text{NDF}$ : 414649.3/13

Right Out: 534.536+/-0.217  $\chi^2/\text{NDF}$ : 368263.1/17

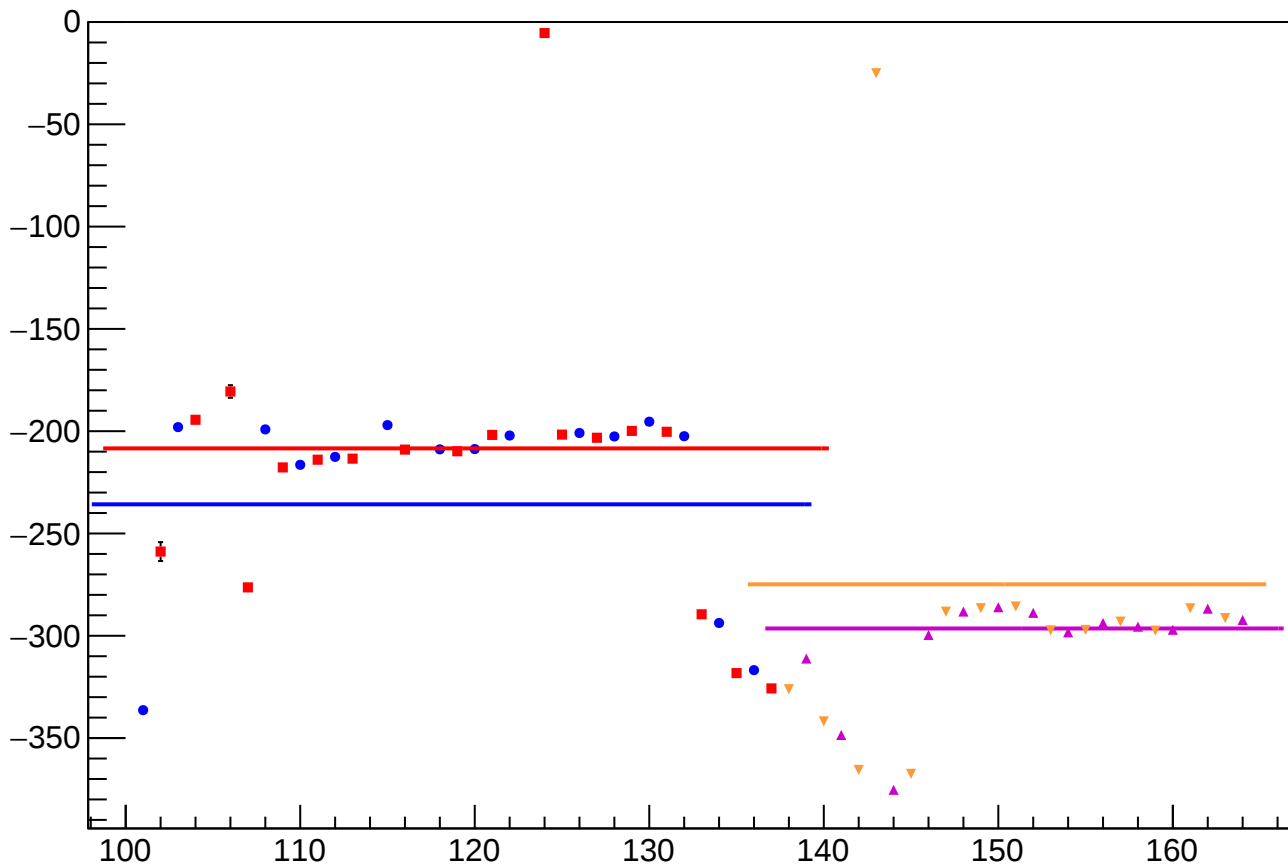
Left In: 859.083+/-0.162  $\chi^2/\text{NDF}$ : 86709.9/12

+ sign 720.886+/-0.133  $\chi^2/\text{NDF}$ : 2288612.9/28

All: 732.414+/-0.093  $\chi^2/\text{NDF}$ : 4195610.8/59

- sign 743.409+/-0.130  $\chi^2/\text{NDF}$ : 1892265.6/30

# dit\_atl2\_11X12X\_slope vs Slug



Right In: -235.748+/-0.055  $\chi^2/\text{NDF}$ : 876219.5/14

Left Out: -274.863+/-0.028  $\chi^2/\text{NDF}$ : 6330077.7/13

Right Out: -208.413+/-0.047  $\chi^2/\text{NDF}$ : 375009.3/17

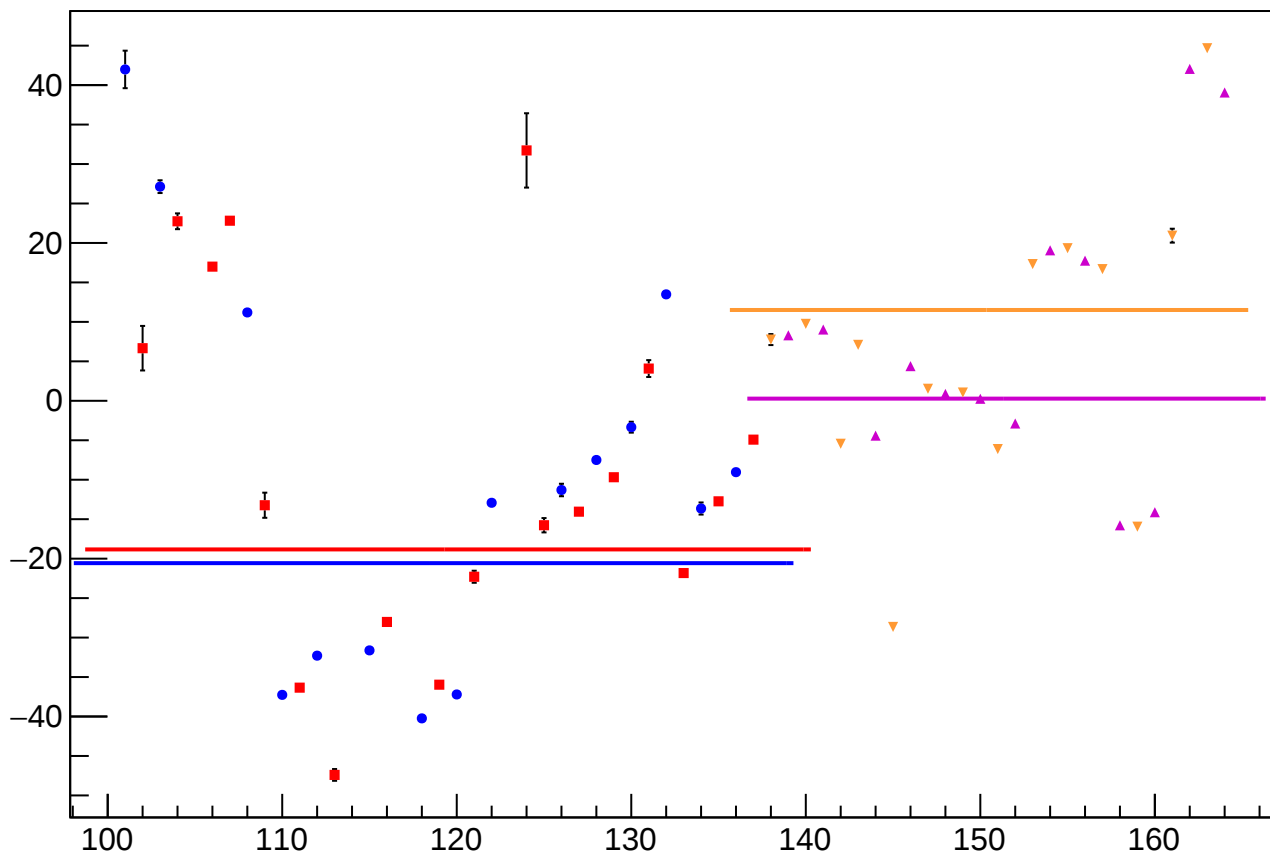
Left In: -296.437+/-0.027  $\chi^2/\text{NDF}$ : 247792.9/12

+ sign -267.054+/-0.025  $\chi^2/\text{NDF}$ : 7607817.6/28

All: -270.708+/-0.017  $\chi^2/\text{NDF}$ : 10916510.8/5

- sign -274.045+/-0.024  $\chi^2/\text{NDF}$ : 3266730.6/30

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $11.507 \pm 0.029$   $\chi^2/\text{NDF}$ : 429004.9/13

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

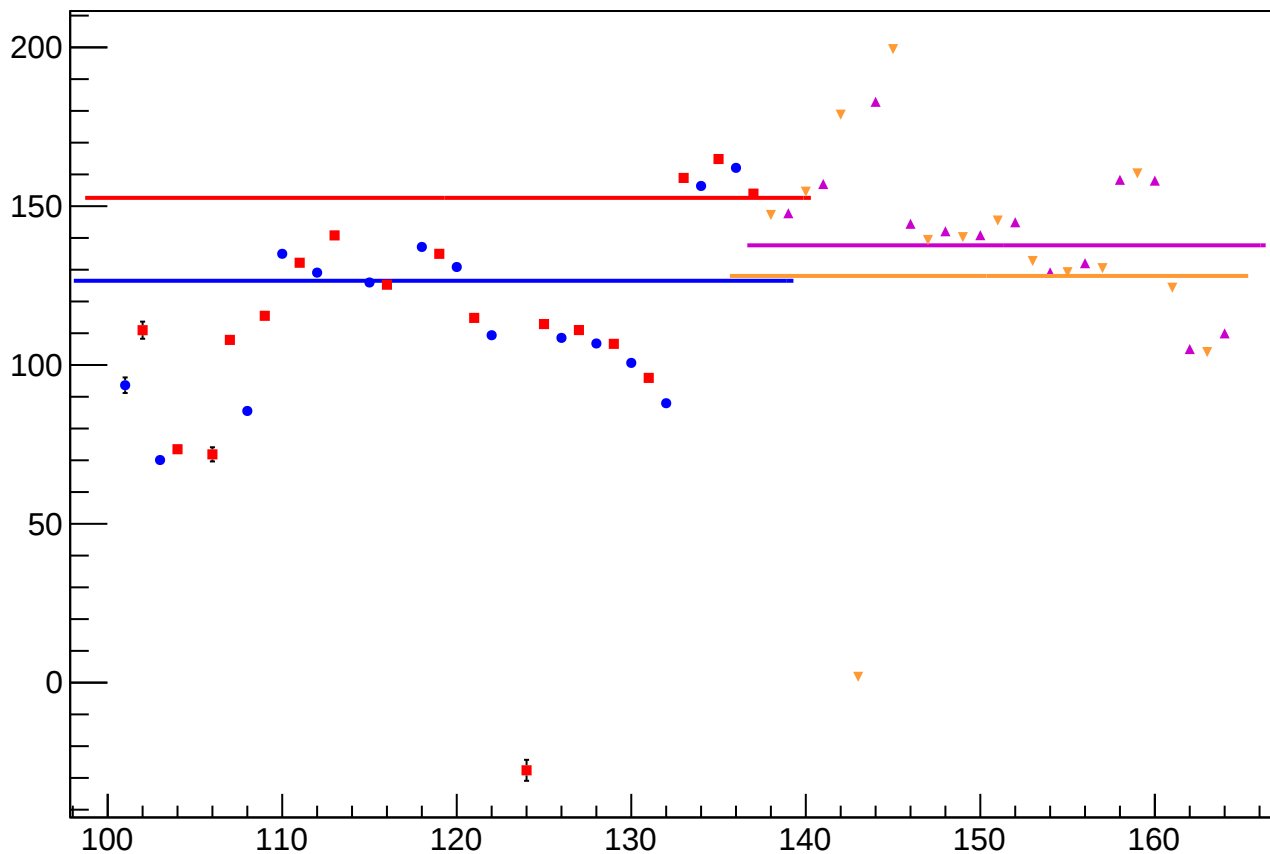
Left In:  $0.276 \pm 0.023$   $\chi^2/\text{NDF}$ : 578807.1/12

+ sign  $6.930 \pm 0.027$   $\chi^2/\text{NDF}$ : 665732.2/28

All:  $2.533 \pm 0.017$   $\chi^2/\text{NDF}$ : 1340675.3/59

- sign  $-0.561 \pm 0.023$   $\chi^2/\text{NDF}$ : 629587.0/30

# dit\_atl2\_4eY\_slope vs Slug



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 128.042 $\pm$ 0.036  $\chi^2$ /NDF: 602023.0/13

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

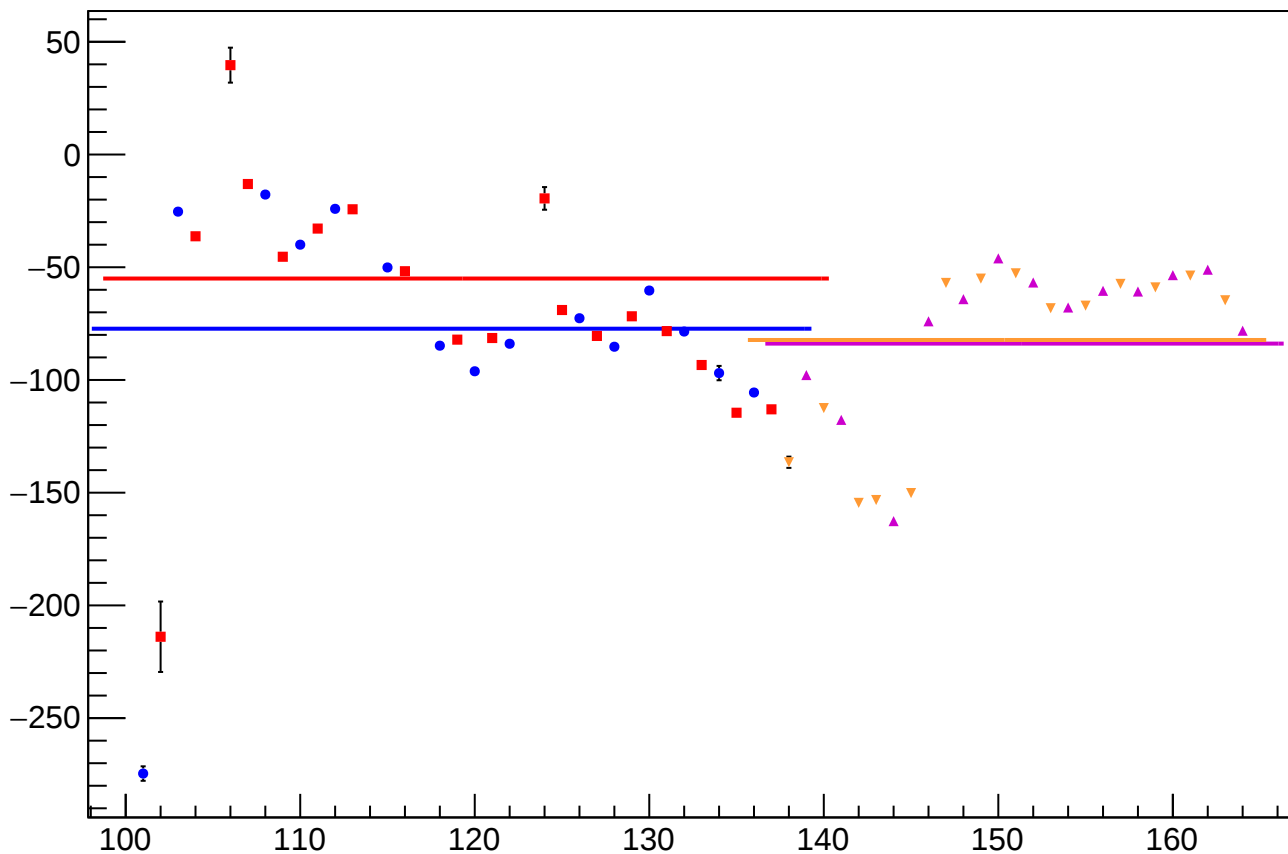
Left In: 137.676 $\pm$ 0.030  $\chi^2$ /NDF: 351797.8/12

+ sign 127.808 $\pm$ 0.033  $\chi^2$ /NDF: 717269.1/28

All: 139.961 $\pm$ 0.018  $\chi^2$ /NDF: 1459407.1/59

- sign 145.123 $\pm$ 0.021  $\chi^2$ /NDF: 547433.6/30

# dit\_atr1\_4aX\_slope vs Slug



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}: 30356.0/14$

Left Out:  $-82.268 \pm 0.155$   $\chi^2/\text{NDF}: 56642.7/13$

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}: 23629.0/17$

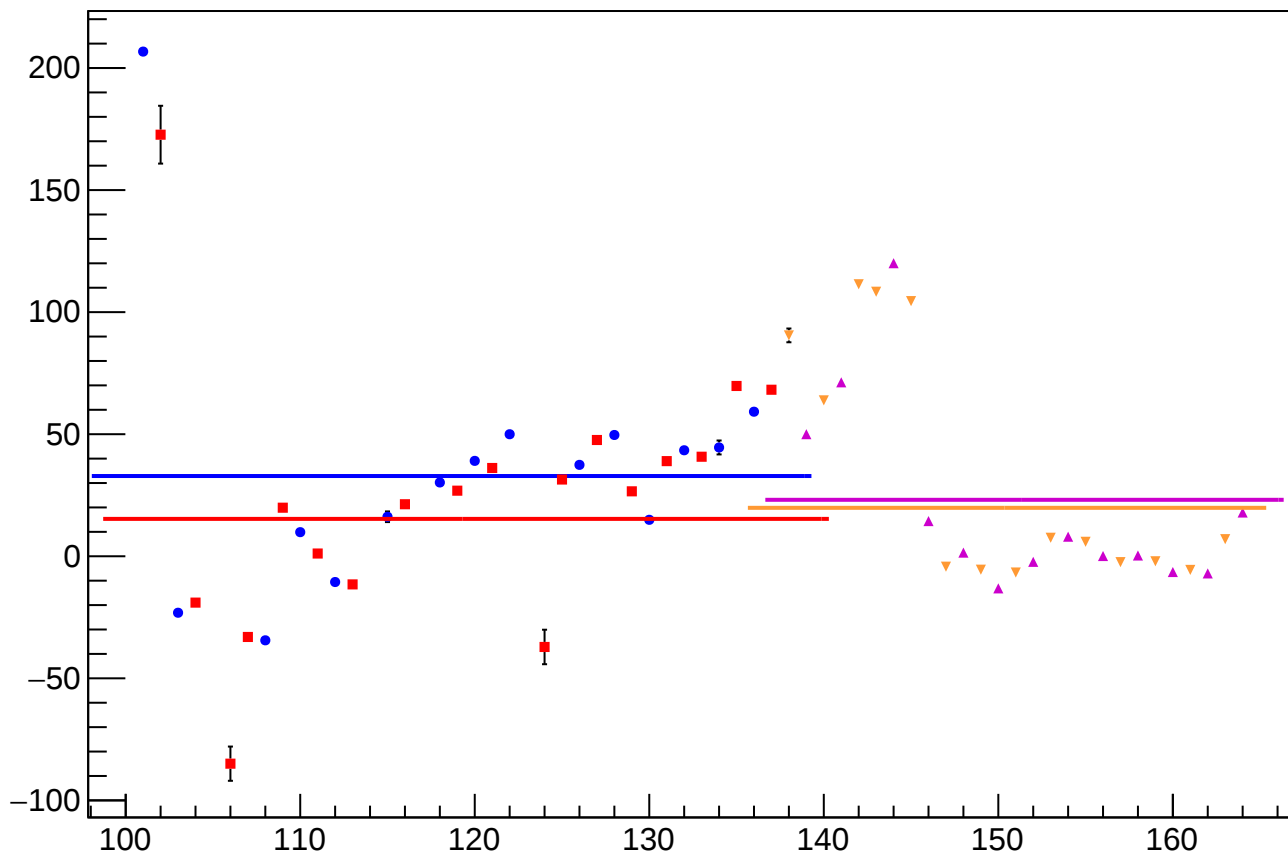
Left In:  $-83.871 \pm 0.152$   $\chi^2/\text{NDF}: 57243.1/12$

+ sign  $-79.625 \pm 0.106$   $\chi^2/\text{NDF}: 87550.9/28$

All:  $-76.498 \pm 0.079$   $\chi^2/\text{NDF}: 184388.5/59$

- sign  $-72.588 \pm 0.119$   $\chi^2/\text{NDF}: 94893.2/30$

# dit\_atr1\_4eX\_slope vs Slug



Right In:  $32.869 \pm 0.146$   $\chi^2/\text{NDF}$ : 31393.7/14

Left Out:  $19.841 \pm 0.134$   $\chi^2/\text{NDF}$ : 88904.7/13

Right Out:  $15.309 \pm 0.210$   $\chi^2/\text{NDF}$ : 16746.0/17

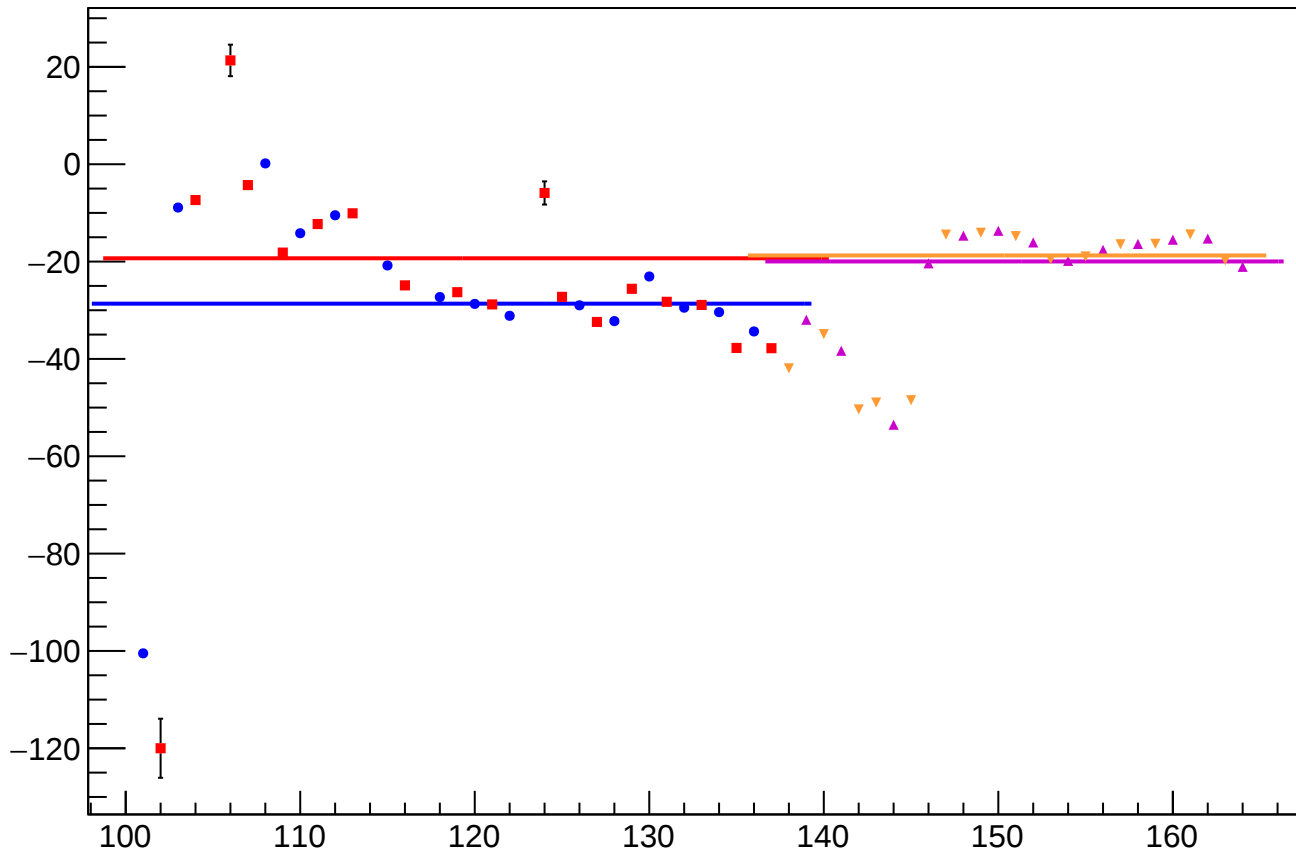
Left In:  $23.127 \pm 0.134$   $\chi^2/\text{NDF}$ : 86387.9/12

+ sign  $25.775 \pm 0.099$   $\chi^2/\text{NDF}$ : 124633.0/28

All:  $23.650 \pm 0.074$   $\chi^2/\text{NDF}$ : 229829.5/59

- sign  $20.859 \pm 0.113$   $\chi^2/\text{NDF}$ : 104120.9/30

# dit\_atr1\_11X12X\_slope vs Slug



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}$ : 113441.9/14

Left Out:  $-18.740 \pm 0.017$   $\chi^2/\text{NDF}$ : 223123.1/13

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}$ : 56579.1/17

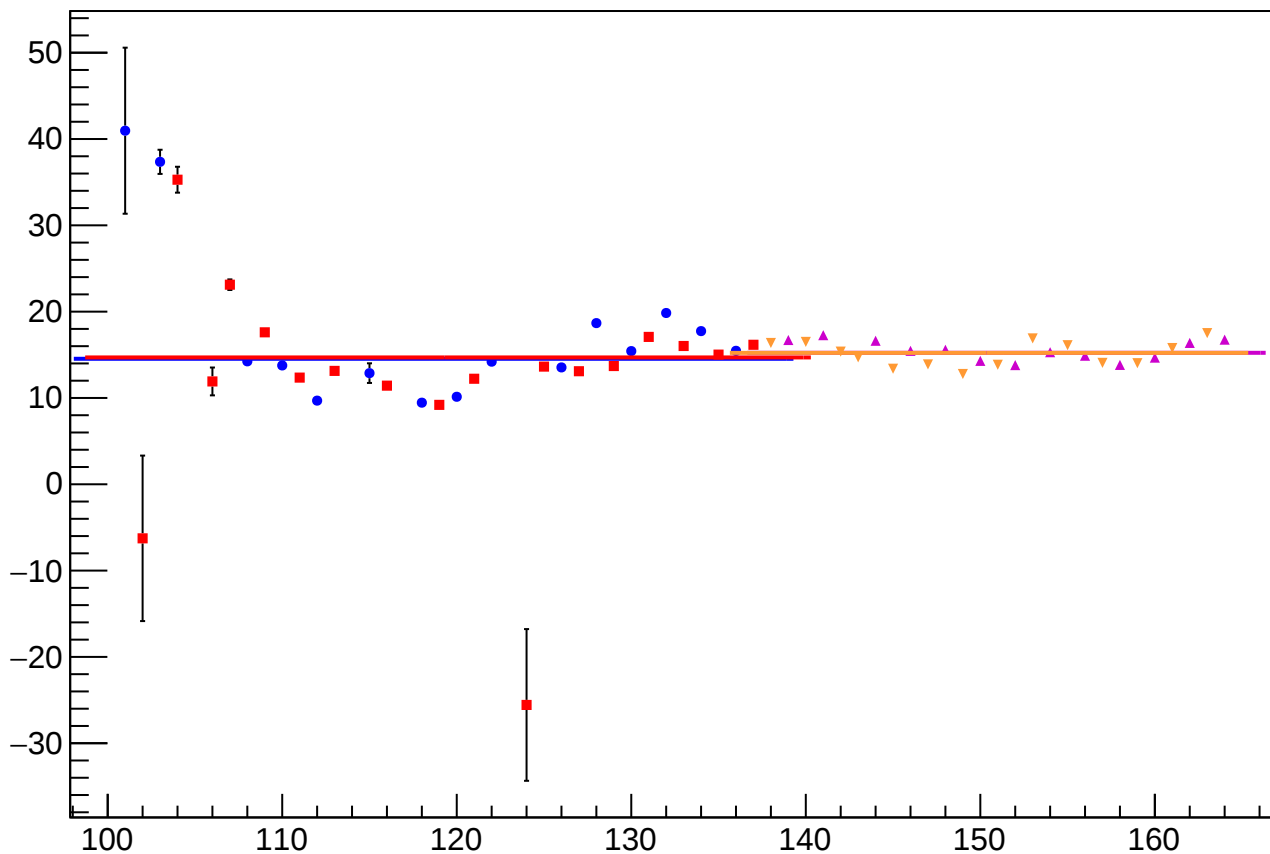
Left In:  $-19.974 \pm 0.018$   $\chi^2/\text{NDF}$ : 193140.8/12

+ sign  $-20.725 \pm 0.015$   $\chi^2/\text{NDF}$ : 403417.1/28

All:  $-20.316 \pm 0.011$   $\chi^2/\text{NDF}$ : 654857.1/59

- sign  $-19.865 \pm 0.016$   $\chi^2/\text{NDF}$ : 249946.3/30

# dit\_atr1\_4aY\_slope vs Slug



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 15.224 $\pm$ 0.018  $\chi^2$ /NDF: 6299.1/13

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

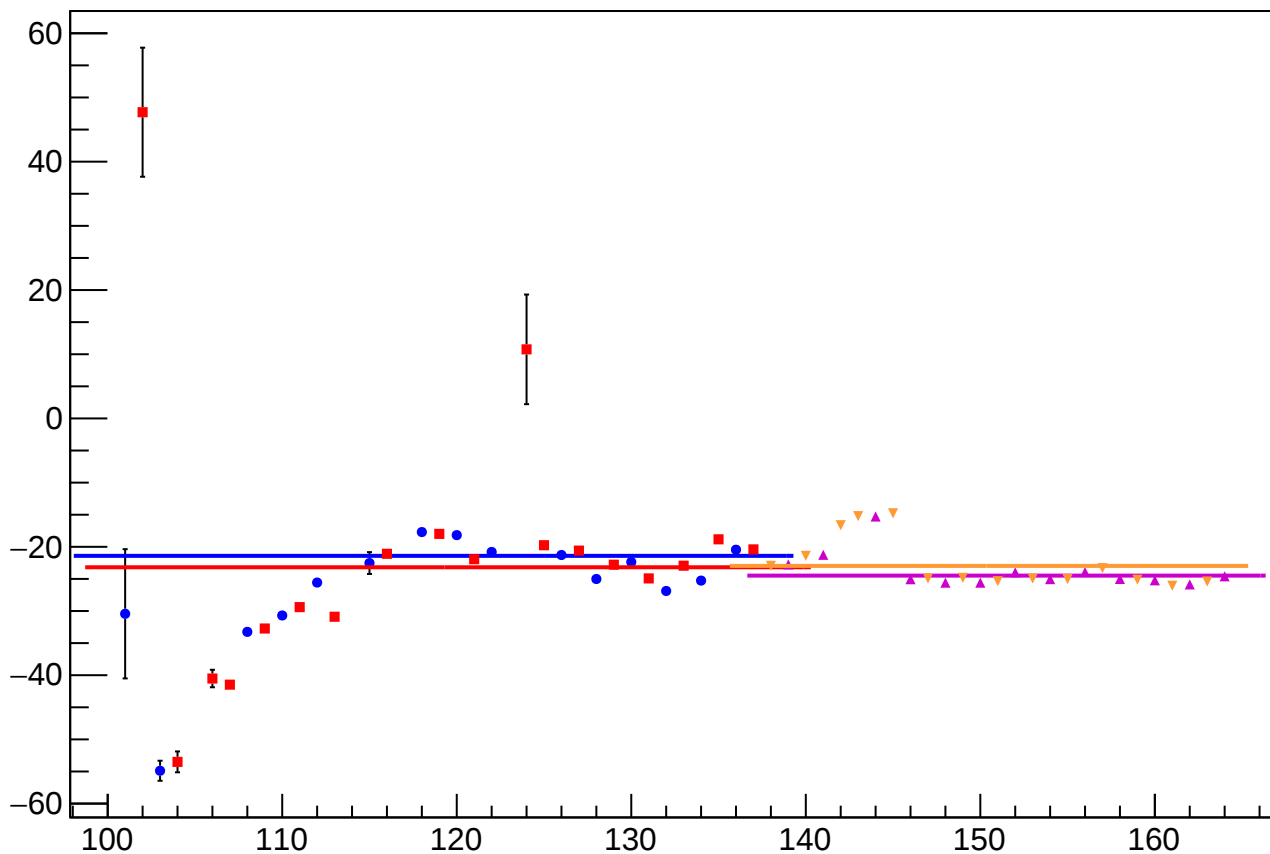
Left In: 15.232 $\pm$ 0.017  $\chi^2$ /NDF: 4115.1/12

+ sign 15.046 $\pm$ 0.015  $\chi^2$ /NDF: 18761.9/28

All: 15.101 $\pm$ 0.011  $\chi^2$ /NDF: 24669.7/59

- sign 15.161 $\pm$ 0.016  $\chi^2$ /NDF: 5880.2/30

# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}$ : 9686.6/14

Left Out:  $-22.971 \pm 0.022$   $\chi^2/\text{NDF}$ : 29372.7/13

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}$ : 9126.8/17

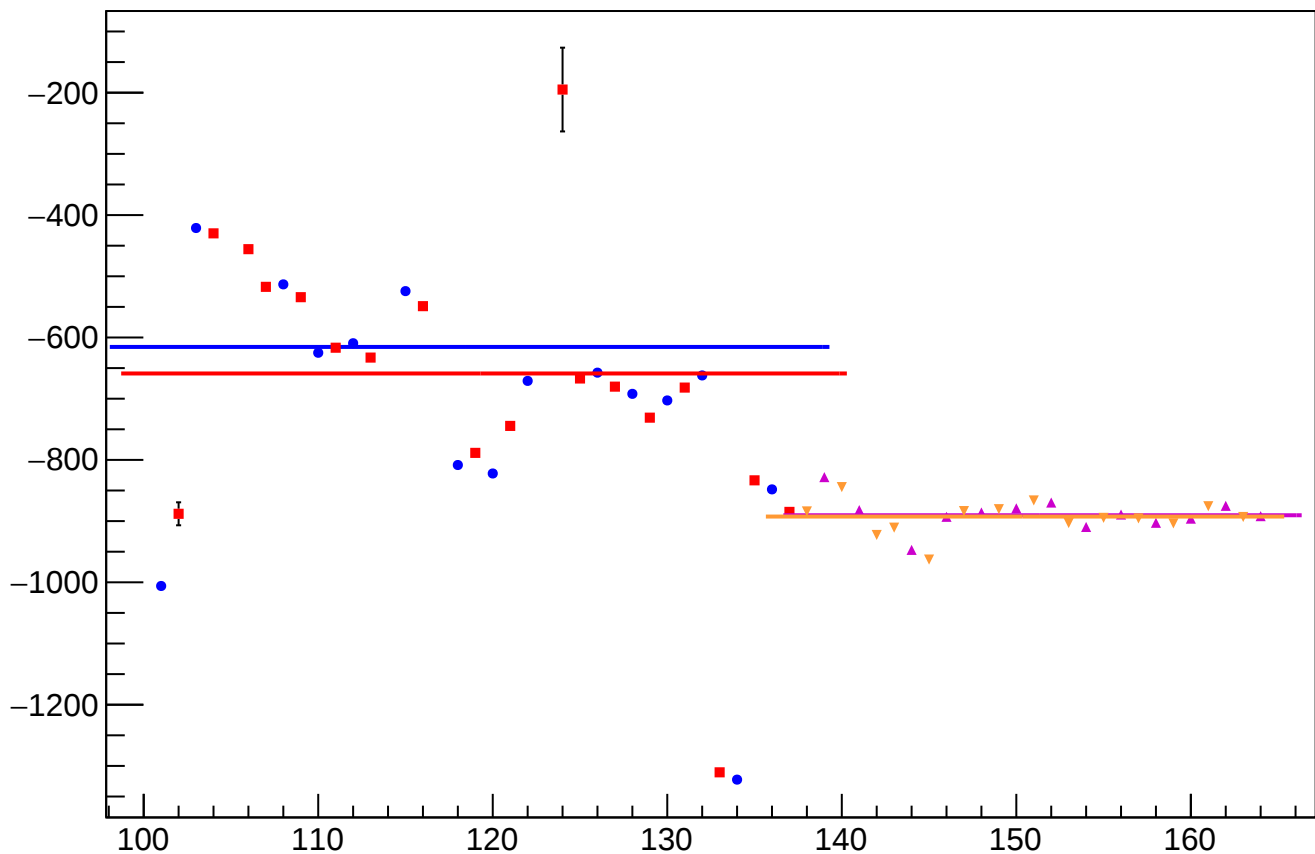
Left In:  $-24.485 \pm 0.020$   $\chi^2/\text{NDF}$ : 7867.2/12

+ sign  $-22.546 \pm 0.019$   $\chi^2/\text{NDF}$ : 40469.1/28

All:  $-23.434 \pm 0.013$   $\chi^2/\text{NDF}$ : 62603.1/59

- sign  $-24.316 \pm 0.018$   $\chi^2/\text{NDF}$ : 17556.1/30

# dit\_atr2\_4aX\_slope vs Slug



Right In: -615.419+/-0.238  $\chi^2$ /NDF: 382819.1/14

Left Out: -892.565+/-0.173  $\chi^2$ /NDF:12216.1/13

Right Out: -658.787+/-0.256  $\chi^2$ /NDF: 385262.6/17

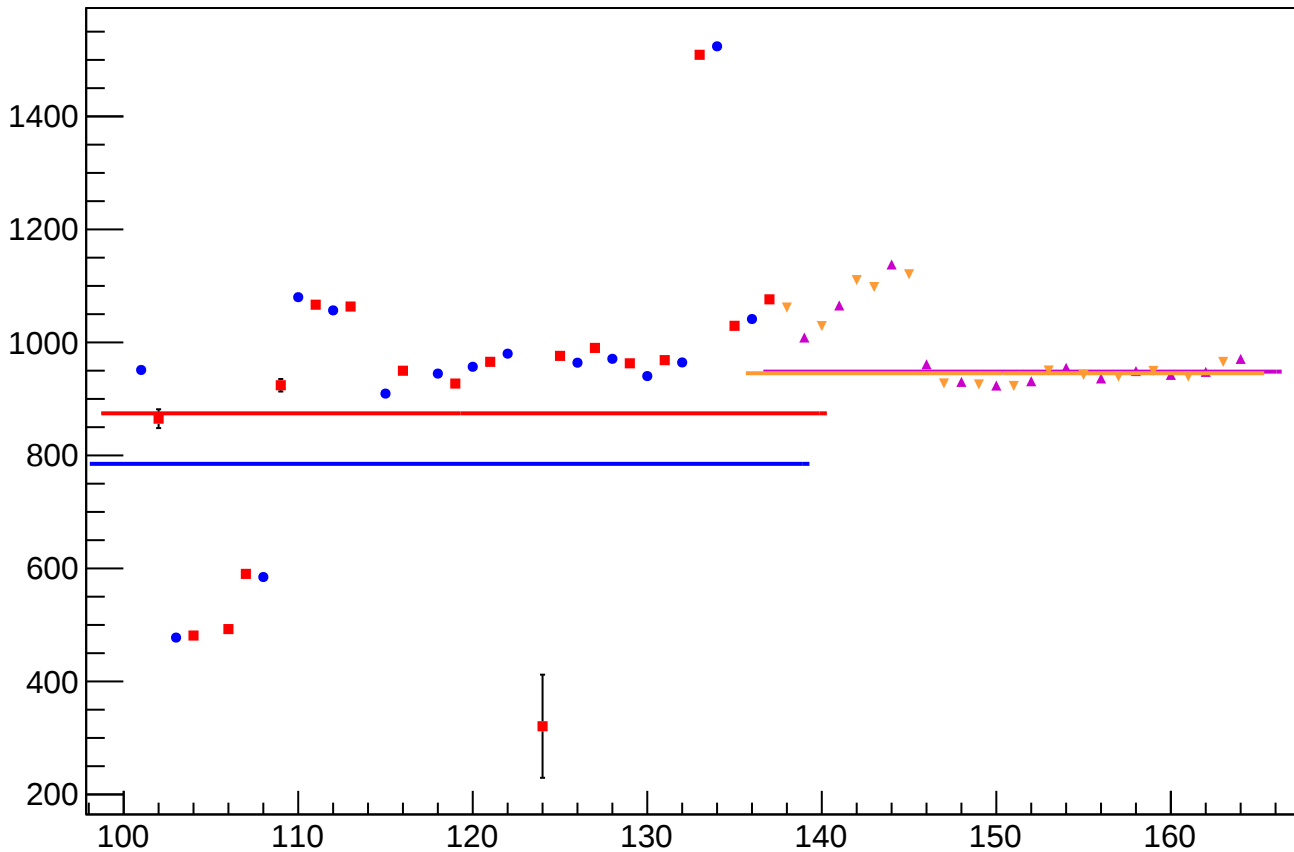
Left In: -890.437+/-0.151  $\chi^2$ /NDF:14036.5/12

+ sign -796.286+/-0.140  $\chi^2$ /NDF: 1282945.2/28

All: -814.949+/-0.095  $\chi^2$ /NDF: 2322549.1/59

- sign -830.991+/-0.130  $\chi^2$ /NDF: 1006579.3/30

# dit\_atr2\_4eX\_slope vs Slug



Right In: 785.095 $\pm$ 0.228  $\chi^2$ /NDF: 886147.1/14

Left Out: 945.452 $\pm$ 0.139  $\chi^2$ /NDF: 69151.9/13

Right Out: 874.516 $\pm$ 0.261  $\chi^2$ /NDF: 842565.5/17

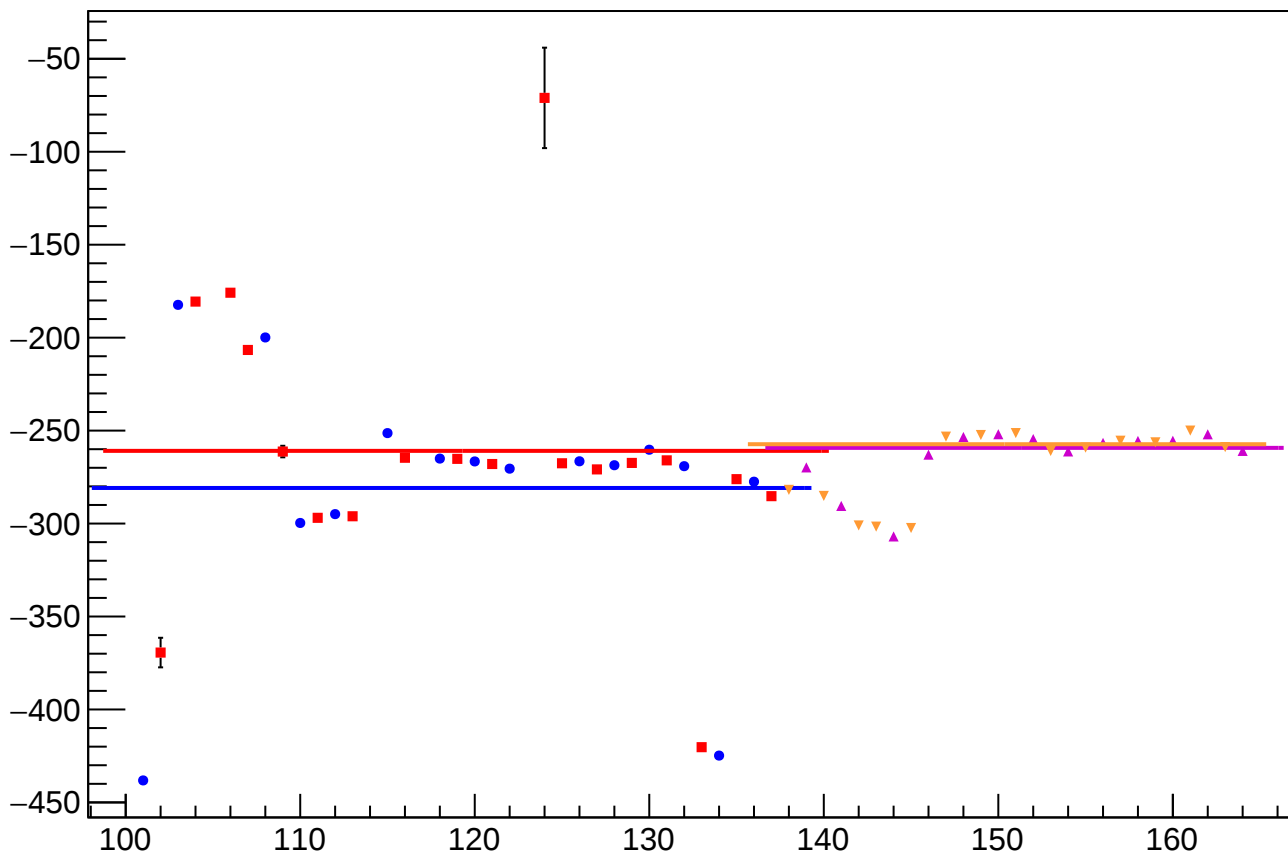
Left In: 948.313 $\pm$ 0.124  $\chi^2$ /NDF: 74898.0/12

+ sign 901.888 $\pm$ 0.119  $\chi^2$ /NDF: 1315452.9/28

All: 919.387 $\pm$ 0.081  $\chi^2$ /NDF: 2338934.0/59

- sign 934.832 $\pm$ 0.112  $\chi^2$ /NDF: 982675.2/30

# dit\_atr2\_11X12X\_slope vs Slug



Right In: -280.856 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 873611.1/14

Left Out: -257.319 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 168060.2/13

Right Out: -260.897 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 347717.5/17

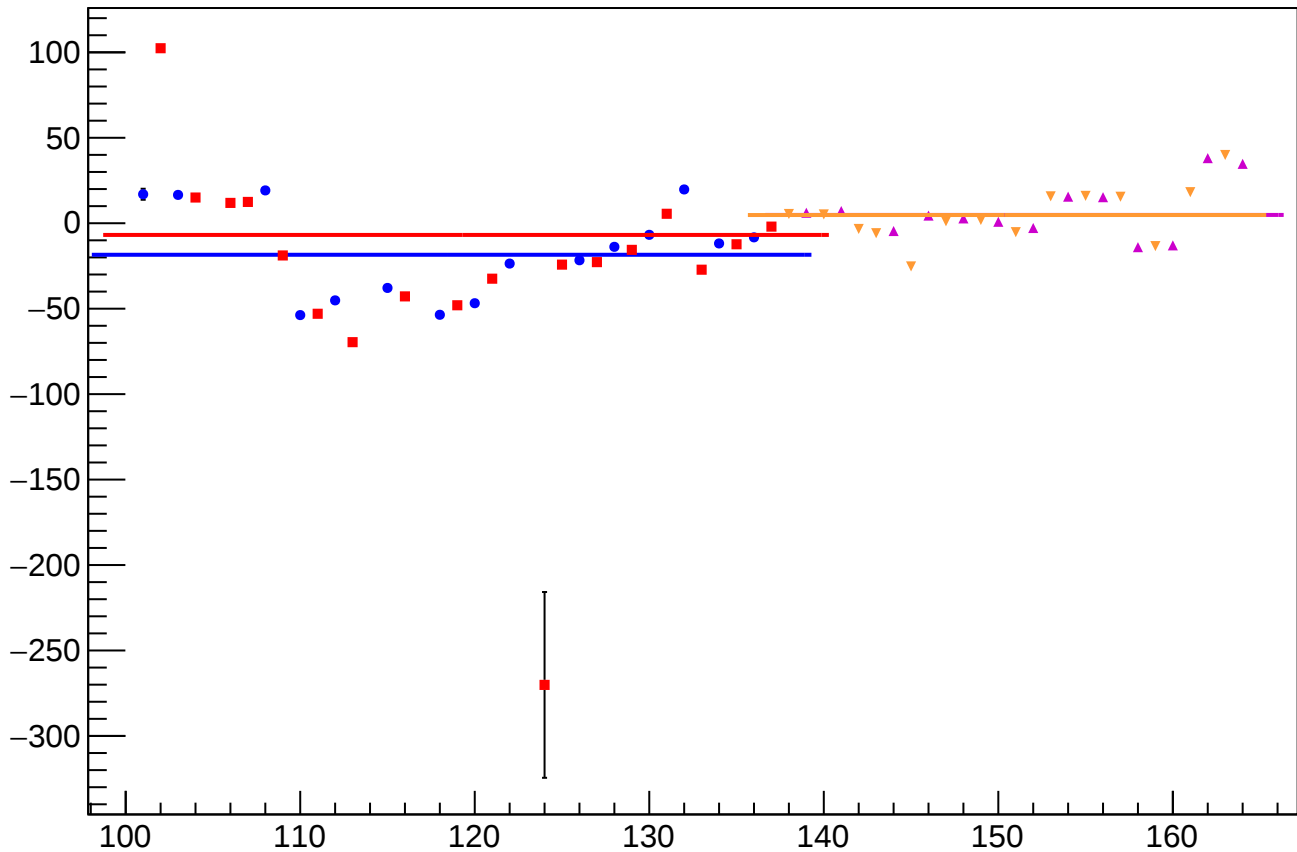
Left In: -259.284 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 186786.5/12

+ sign -260.431 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 1181989.6/28

All: -259.925 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 1718119.6/59

- sign -259.438 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 535019.4/30

# dit\_atr2\_4aY\_slope vs Slug



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}$ : 46574.6/14

Left Out:  $4.804 \pm 0.028$   $\chi^2/\text{NDF}$ : 315073.5/13

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}$ : 50023.0/17

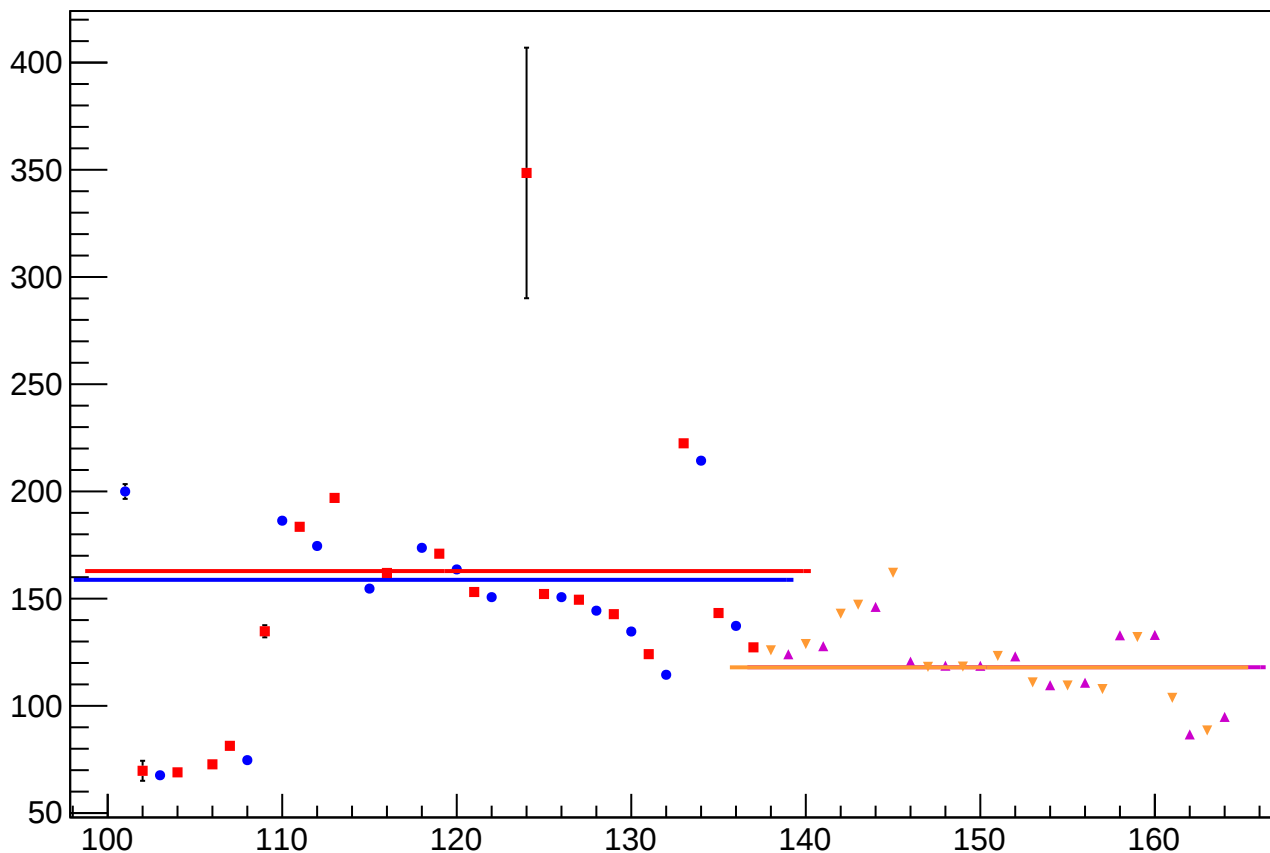
Left In:  $4.857 \pm 0.023$   $\chi^2/\text{NDF}$ : 392566.1/12

+ sign  $2.826 \pm 0.027$   $\chi^2/\text{NDF}$ : 421050.5/28

All:  $3.274 \pm 0.017$   $\chi^2/\text{NDF}$ : 893308.5/59

- sign  $3.564 \pm 0.021$   $\chi^2/\text{NDF}$ : 471792.3/30

dit\_atr2\_4eY\_slope vs Slug



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 117.961 $\pm$ 0.032  $\chi^2$ /NDF: 185637.9/13

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

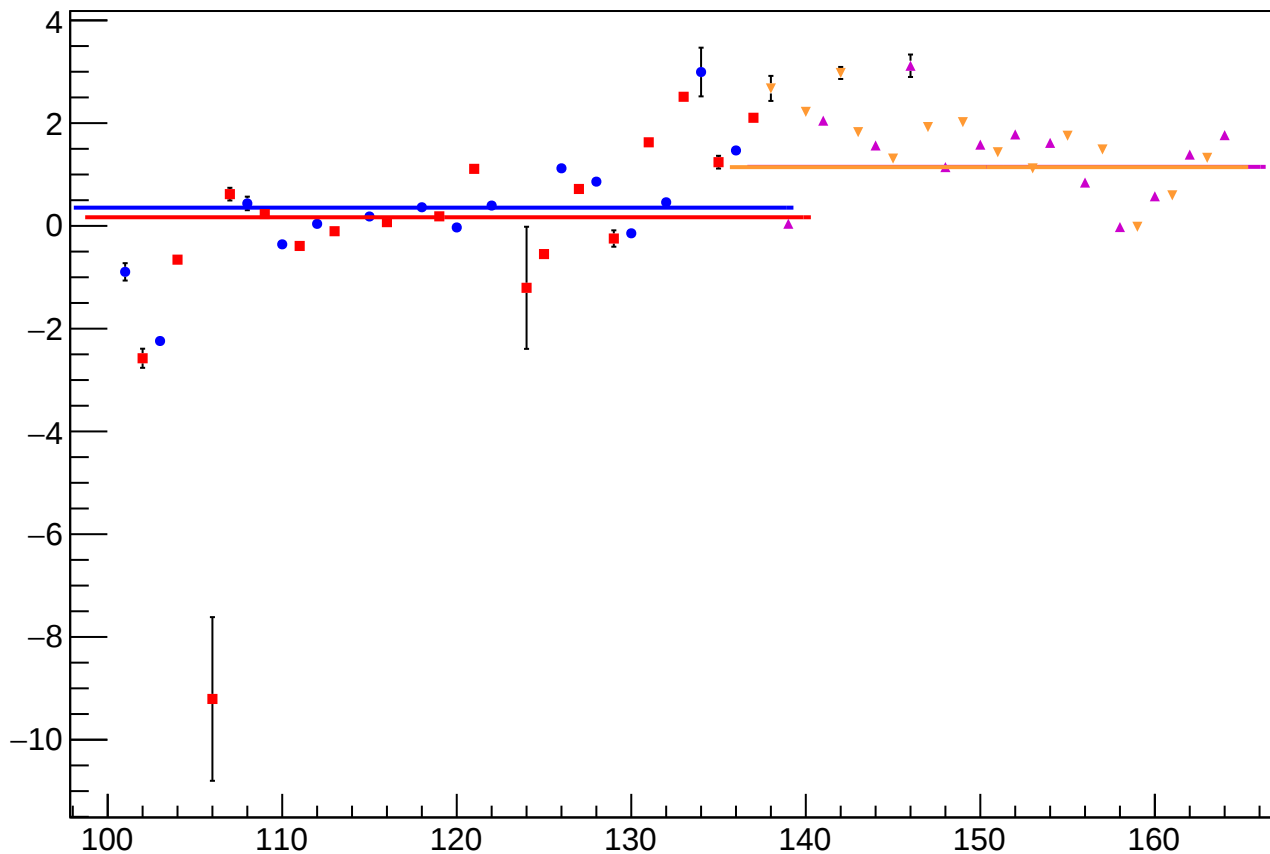
Left In: 118.010 $\pm$ 0.028  $\chi^2$ /NDF: 258007.1/12

+ sign 122.738 $\pm$ 0.030  $\chi^2$ /NDF: 533226.8/28

All: 122.143 $\pm$ 0.020  $\chi^2$ /NDF: 1160388.2/59

- sign 121.679 $\pm$ 0.027  $\chi^2$ /NDF: 626470.7/30

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}$ : 4011.3/14

Left Out:  $1.143 \pm 0.012$   $\chi^2/\text{NDF}$ : 4768.9/13

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}$ : 4588.1/17

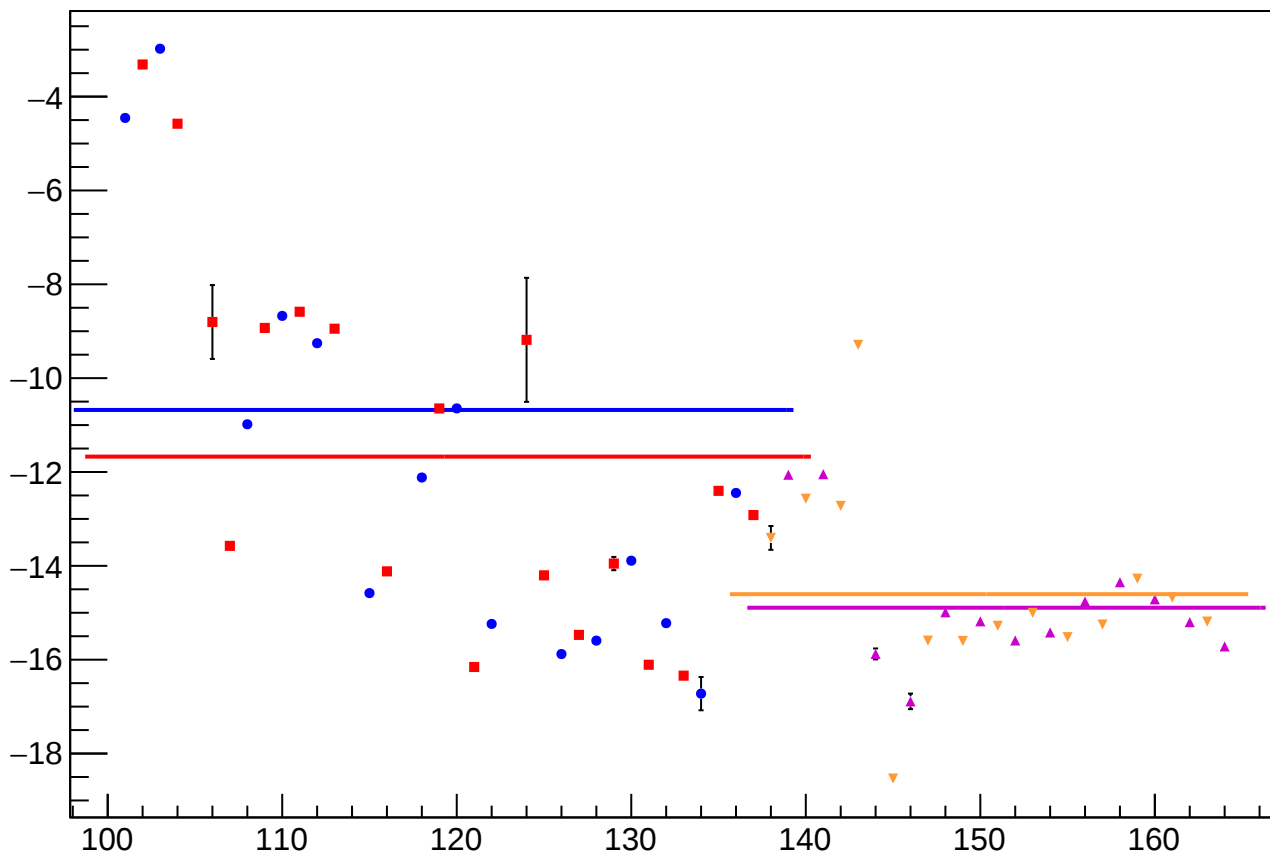
Left In:  $1.149 \pm 0.009$   $\chi^2/\text{NDF}$ : 6335.1/12

+ sign  $0.744 \pm 0.008$   $\chi^2/\text{NDF}$ : 11000.1/28

All:  $0.642 \pm 0.005$   $\chi^2/\text{NDF}$ : 29304.4/59

- sign  $0.594 \pm 0.006$   $\chi^2/\text{NDF}$ : 18086.0/30

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.604 \pm 0.010$   $\chi^2/\text{NDF}: 29448.5/13$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

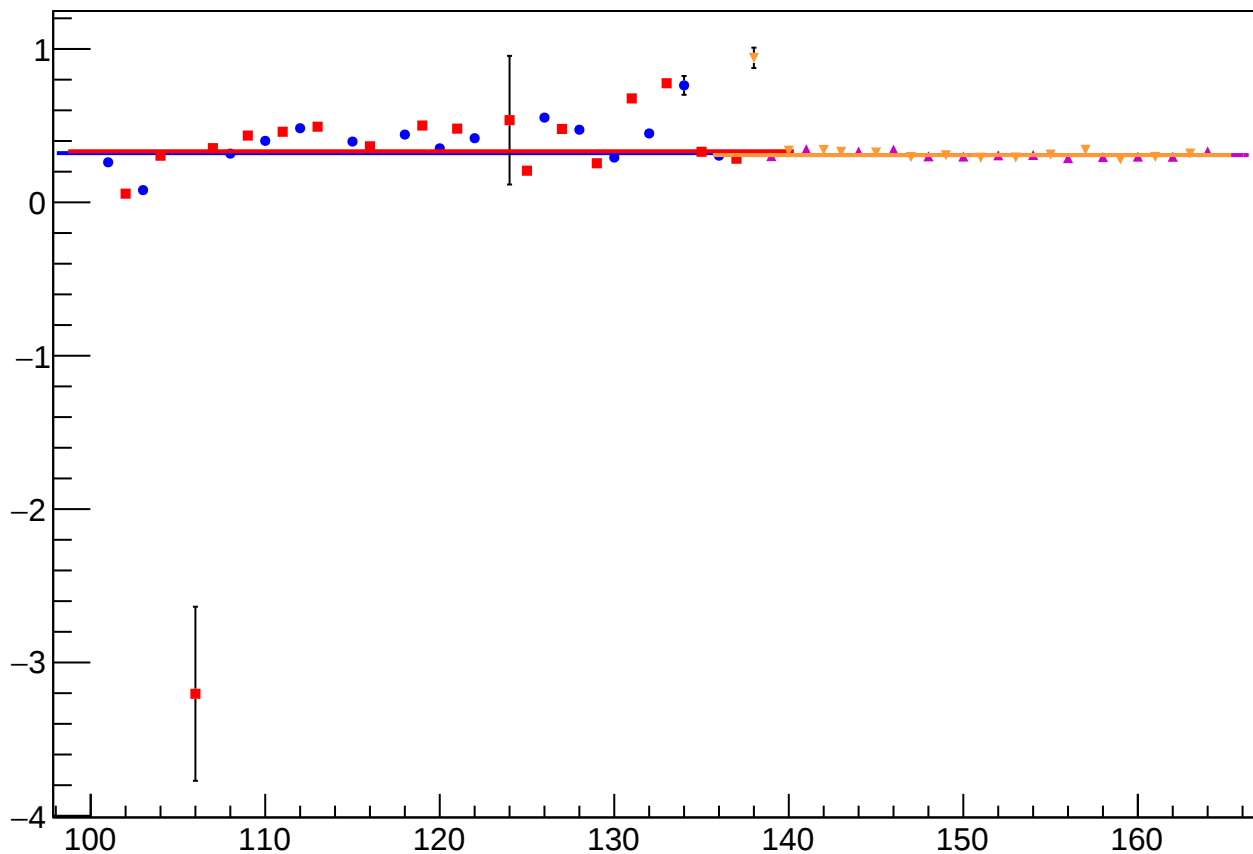
Left In:  $-14.893 \pm 0.008$   $\chi^2/\text{NDF}: 11820.3/12$

+ sign  $-12.733 \pm 0.007$   $\chi^2/\text{NDF}: 332620.3/28$

All:  $-13.369 \pm 0.005$   $\chi^2/\text{NDF}: 519906.5/59$

- sign  $-13.898 \pm 0.006$   $\chi^2/\text{NDF}: 172566.4/30$

# dit\_sam1\_11X12X\_slope vs Slug



Right In:  $0.321 \pm 0.001$   $\chi^2/\text{NDF}$ : 4017.7/14

Left Out:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 3857.0/13

Right Out:  $0.333 \pm 0.001$   $\chi^2/\text{NDF}$ : 4170.0/17

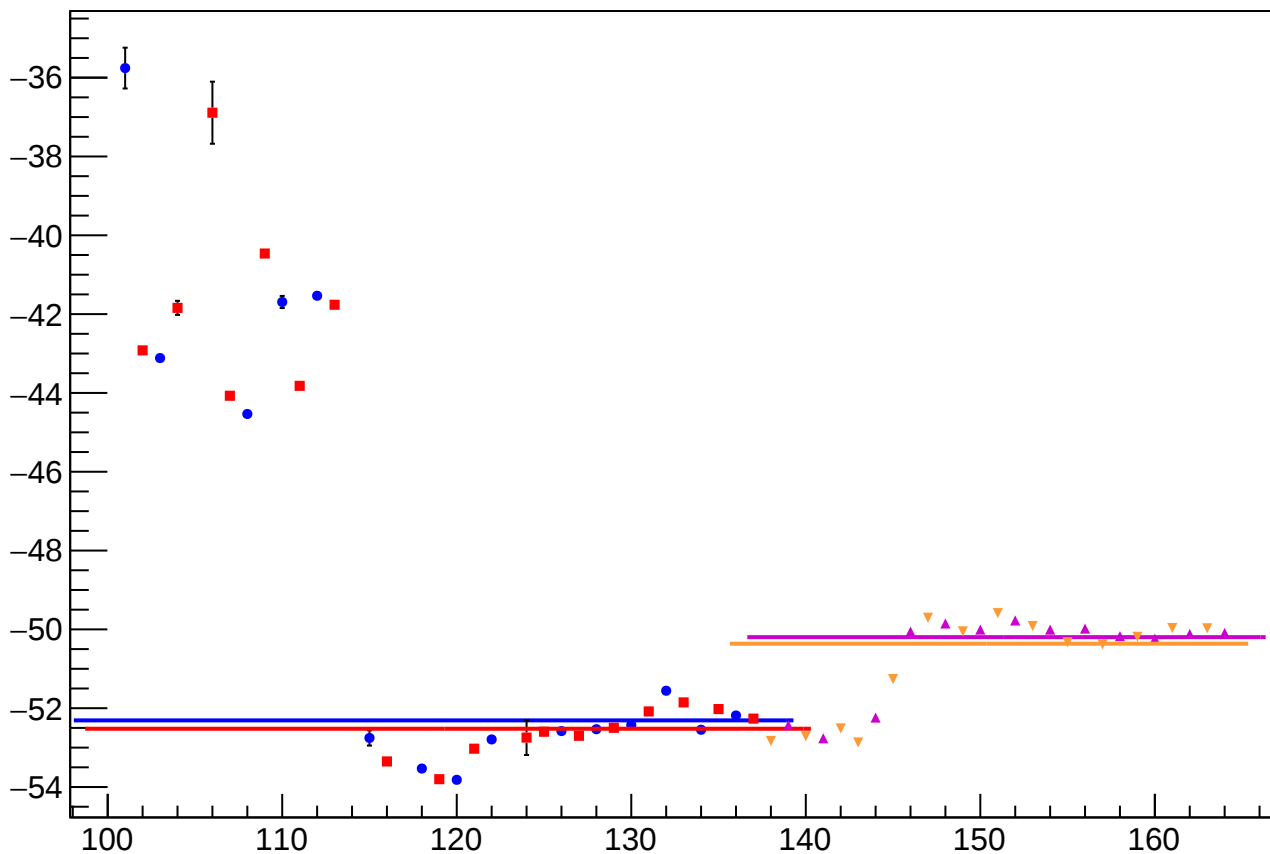
Left In:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 2343.3/12

+ sign  $0.310 \pm 0.000$   $\chi^2/\text{NDF}$ : 8035.1/28

All:  $0.310 \pm 0.000$   $\chi^2/\text{NDF}$ : 14914.6/59

- sign  $0.310 \pm 0.000$   $\chi^2/\text{NDF}$ : 6879.5/30

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}$ : 53459.2/14

Left Out:  $-50.363 \pm 0.002$   $\chi^2/\text{NDF}$ : 225444.9/13

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}$ : 76616.3/17

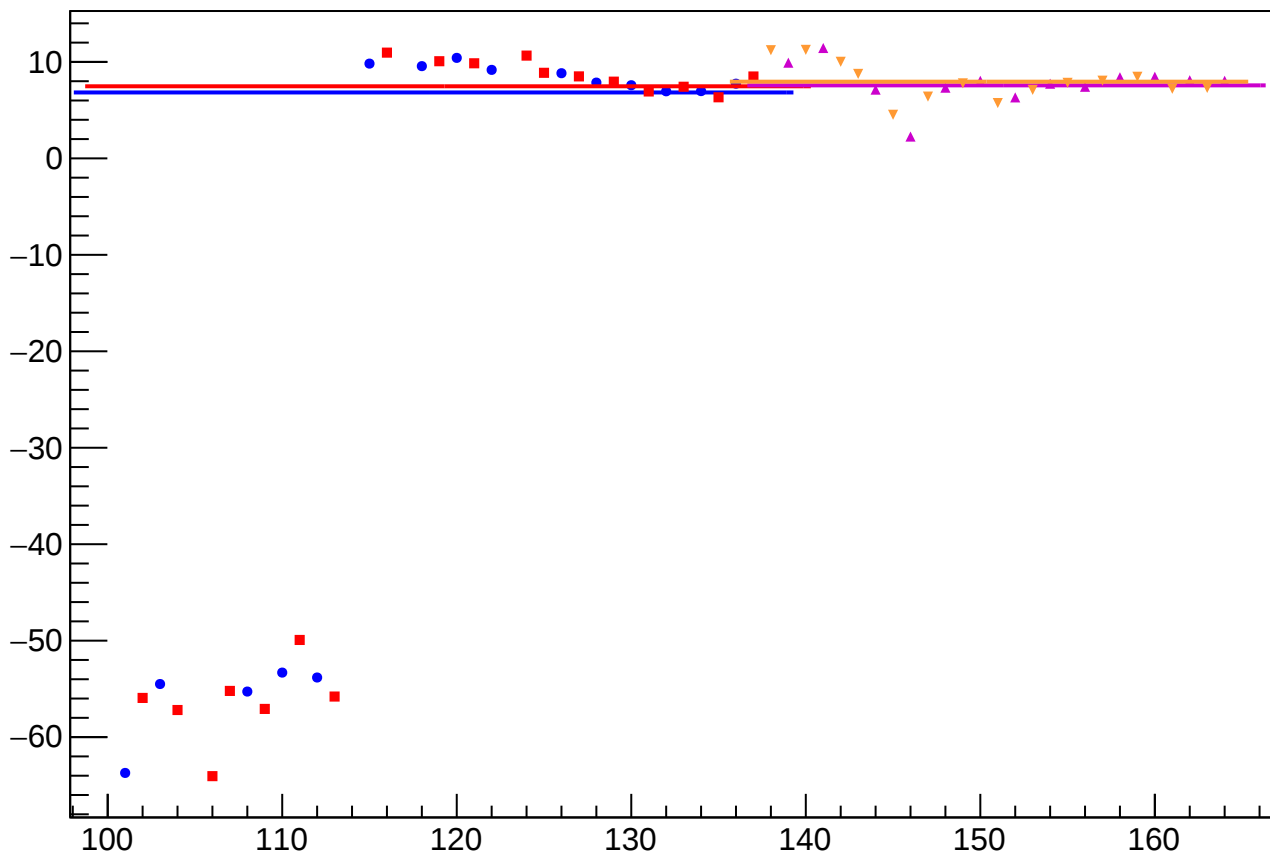
Left In:  $-50.197 \pm 0.002$   $\chi^2/\text{NDF}$ : 155344.9/12

+ sign  $-50.697 \pm 0.002$   $\chi^2/\text{NDF}$ : 439954.4/28

All:  $-50.544 \pm 0.001$   $\chi^2/\text{NDF}$ : 911370.5/59

- sign  $-50.442 \pm 0.001$   $\chi^2/\text{NDF}$ : 459775.4/30

# dit\_sam1\_4eY\_slope vs Slug



Right In:  $6.834 \pm 0.005$   $\chi^2/\text{NDF}: 990576.4/14$

Left Out:  $7.951 \pm 0.005$   $\chi^2/\text{NDF}: 79529.3/13$

Right Out:  $7.474 \pm 0.009$   $\chi^2/\text{NDF}: 1195498.7/17$

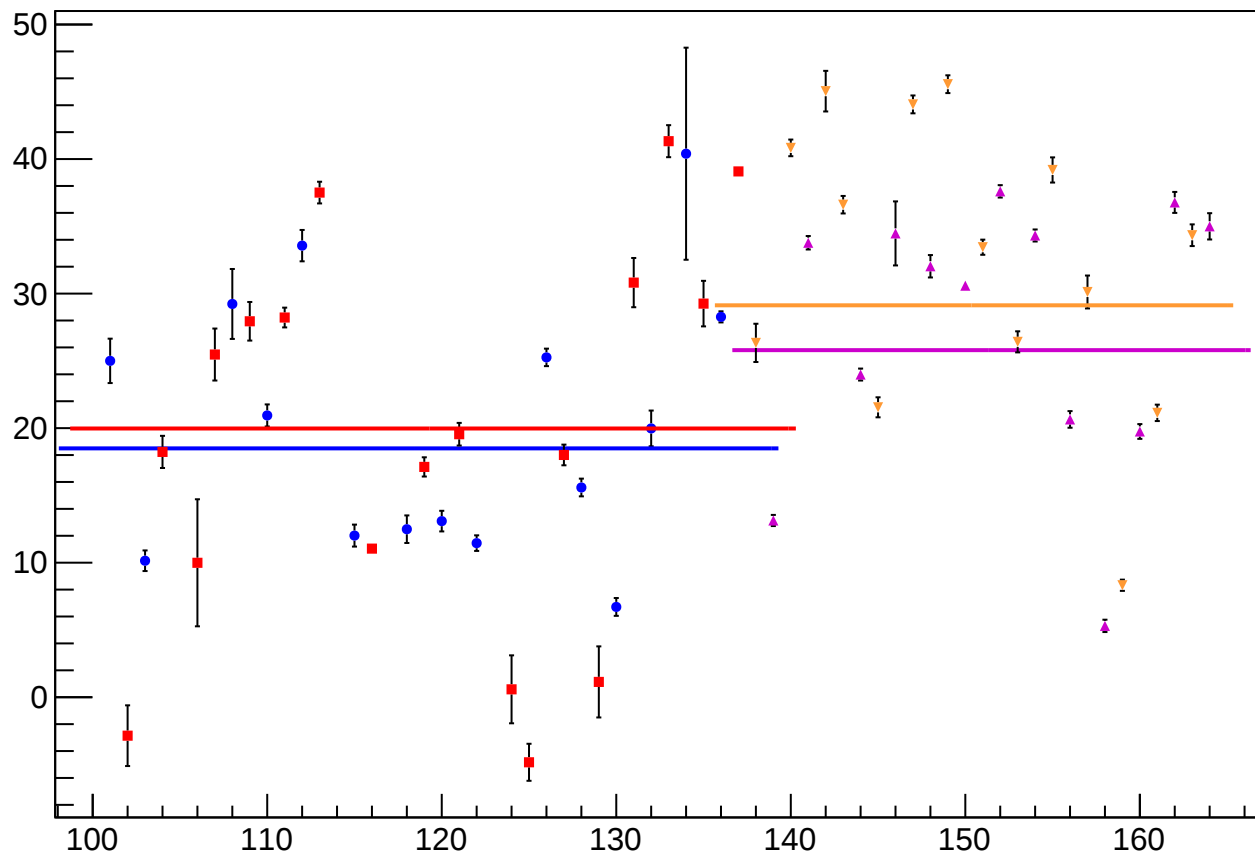
Left In:  $7.569 \pm 0.004$   $\chi^2/\text{NDF}: 100034.5/12$

+ sign  $7.450 \pm 0.003$   $\chi^2/\text{NDF}: 1096976.1/28$

All:  $7.502 \pm 0.002$   $\chi^2/\text{NDF}: 2393082.8/59$

- sign  $7.556 \pm 0.003$   $\chi^2/\text{NDF}: 1295623.8/30$

# dit\_sam2\_4aX\_slope vs Slug



Right In: 18.496 $\pm$ 0.200  $\chi^2$ /NDF: 1636.7/14

Left Out: 29.130 $\pm$ 0.186  $\chi^2$ /NDF: 4718.9/13

Right Out: 19.974 $\pm$ 0.130  $\chi^2$ /NDF: 9201.3/17

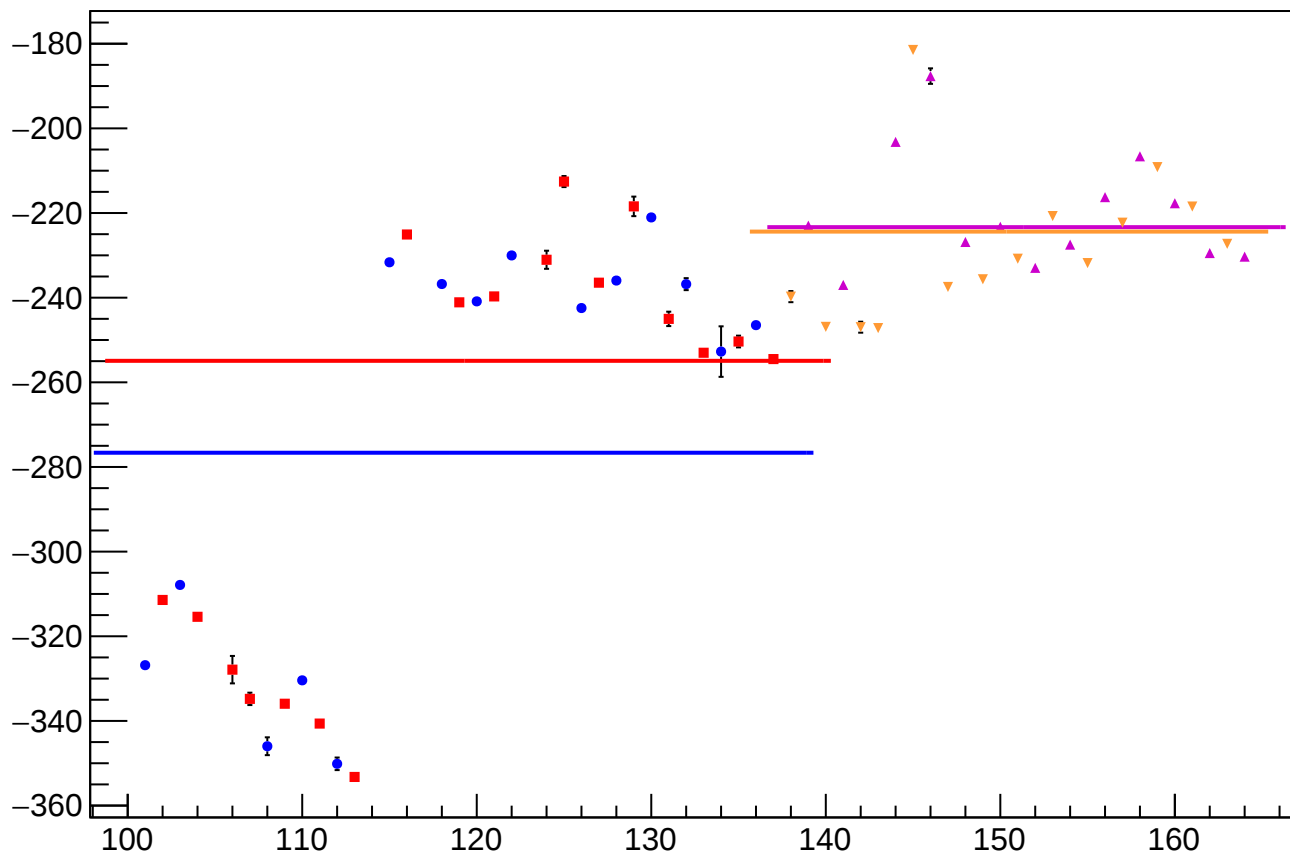
Left In: 25.797 $\pm$ 0.143  $\chi^2$ /NDF: 4983.1/12

+ sign 24.193 $\pm$ 0.136  $\chi^2$ /NDF: 7869.4/28

All: 23.142 $\pm$ 0.079  $\chi^2$ /NDF: 23051.9/59

- sign 22.619 $\pm$ 0.096  $\chi^2$ /NDF: 15093.5/30

# dit\_sam2\_4eX\_slope vs Slug



Right In: -276.636+/-0.148  $\chi^2/\text{NDF}$ : 77119.6/14

Left Out: -224.390+/-0.151  $\chi^2/\text{NDF}$ : 13820.3/13

Right Out: -254.921+/-0.071  $\chi^2/\text{NDF}$ : 71945.8/17

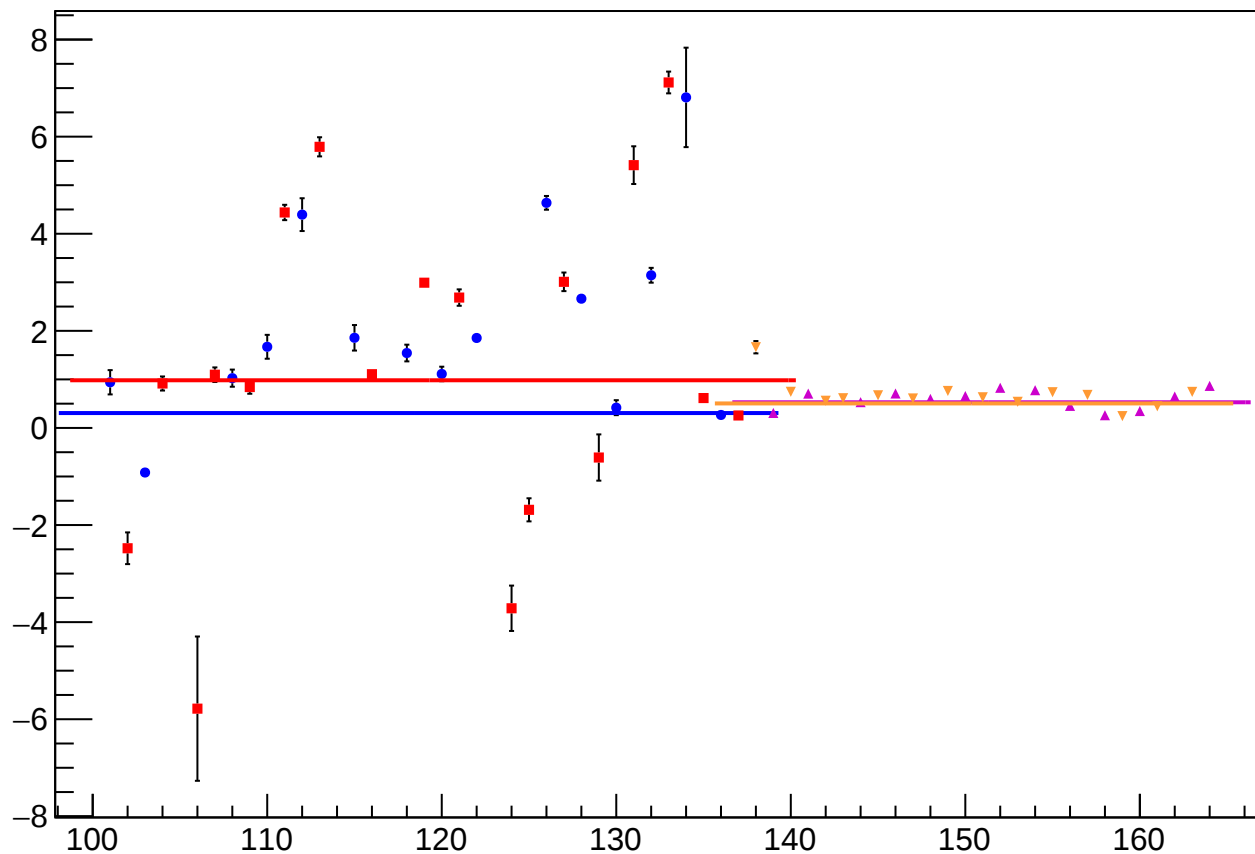
Left In: -223.339+/-0.123  $\chi^2/\text{NDF}$ : 4849.2/12

+ sign -251.148+/-0.106  $\chi^2/\text{NDF}$ : 152111.6/28

All: -248.011+/-0.053  $\chi^2/\text{NDF}$ : 279746.8/59

- sign -246.944+/-0.062  $\chi^2/\text{NDF}$ : 126452.4/30

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}$ : 2787.0/14

Left Out:  $0.505 \pm 0.002$   $\chi^2/\text{NDF}$ : 7994.5/13

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}$ : 3374.7/17

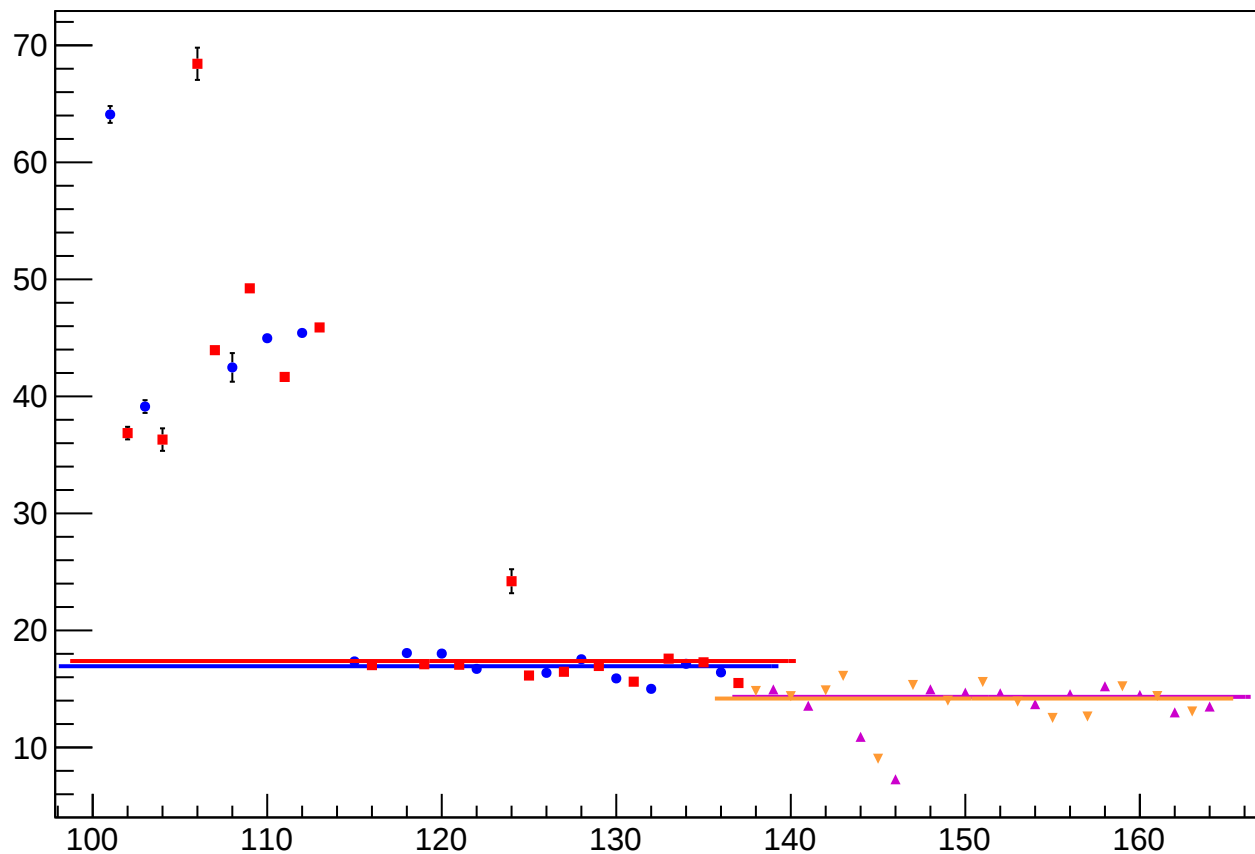
Left In:  $0.529 \pm 0.002$   $\chi^2/\text{NDF}$ : 13185.8/12

+ sign  $0.483 \pm 0.002$   $\chi^2/\text{NDF}$ : 11572.6/28

All:  $0.513 \pm 0.001$   $\chi^2/\text{NDF}$ : 29404.0/59

- sign  $0.537 \pm 0.002$   $\chi^2/\text{NDF}$ : 17497.5/30

# dit\_sam2\_4aY\_slope vs Slug



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}$ : 29019.8/14

Left Out:  $14.179 \pm 0.010$   $\chi^2/\text{NDF}$ : 50075.8/13

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}$ : 61131.5/17

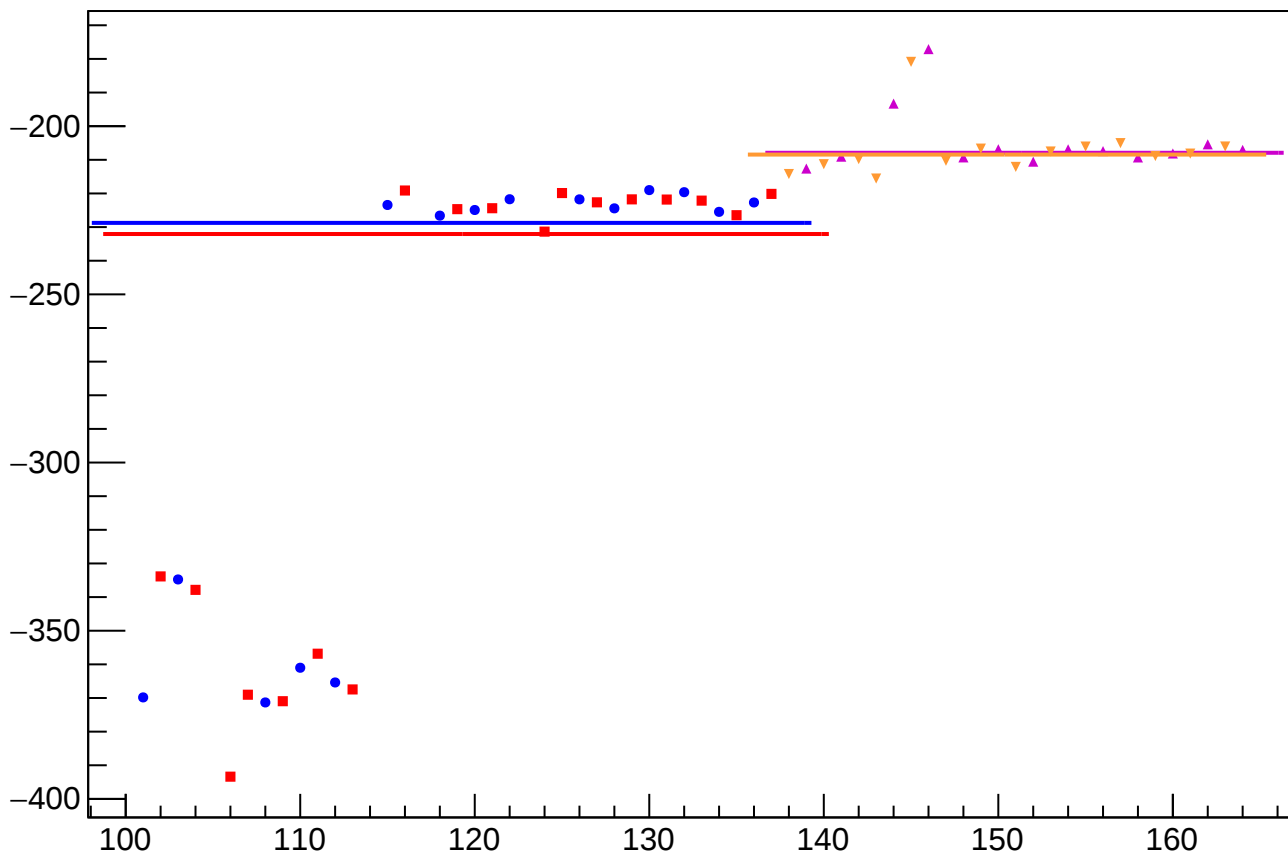
Left In:  $14.324 \pm 0.010$   $\chi^2/\text{NDF}$ : 8754.7/12

+ sign  $15.164 \pm 0.008$   $\chi^2/\text{NDF}$ : 108730.1/28

All:  $15.101 \pm 0.006$   $\chi^2/\text{NDF}$ : 202120.2/59

- sign  $15.025 \pm 0.008$   $\chi^2/\text{NDF}$ : 93241.0/30

# dit\_sam2\_4eY\_slope vs Slug



Right In: -228.749+/-0.035  $\chi^2/\text{NDF}$ : 657578.5/14

Left Out: -208.442+/-0.019  $\chi^2/\text{NDF}$ : 75035.6/13

Right Out: -232.058+/-0.041  $\chi^2/\text{NDF}$ : 791526.5/17

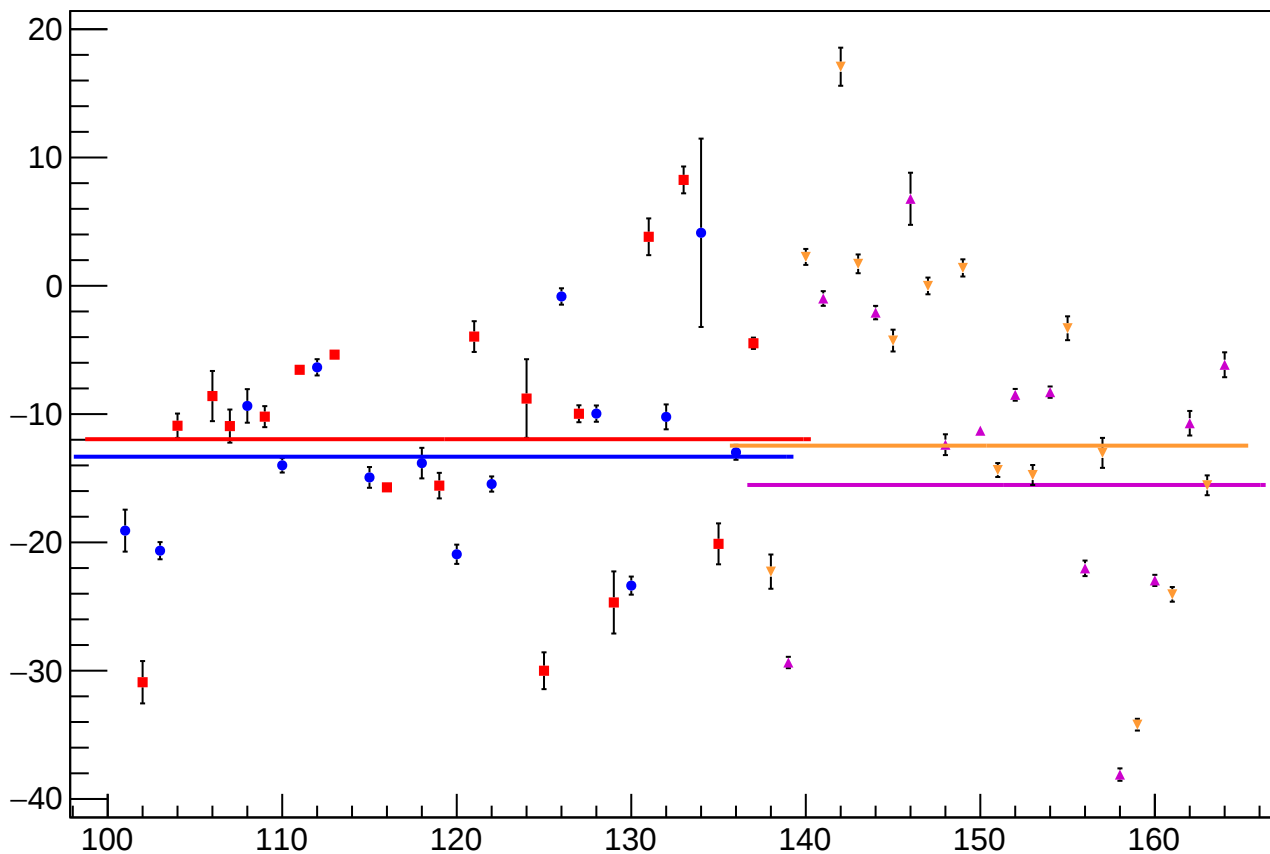
Left In: -207.908+/-0.018  $\chi^2/\text{NDF}$ : 15952.2/12

+ sign -213.139+/-0.017  $\chi^2/\text{NDF}$ : 996104.0/28

All: -212.371+/-0.012  $\chi^2/\text{NDF}$ : 2096735.4/59

- sign -211.643+/-0.016  $\chi^2/\text{NDF}$ : 1096502.8/30

# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}: 1013.0/14$

Left Out:  $-12.459 \pm 0.190$   $\chi^2/\text{NDF}: 5058.9/13$

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}: 2487.2/17$

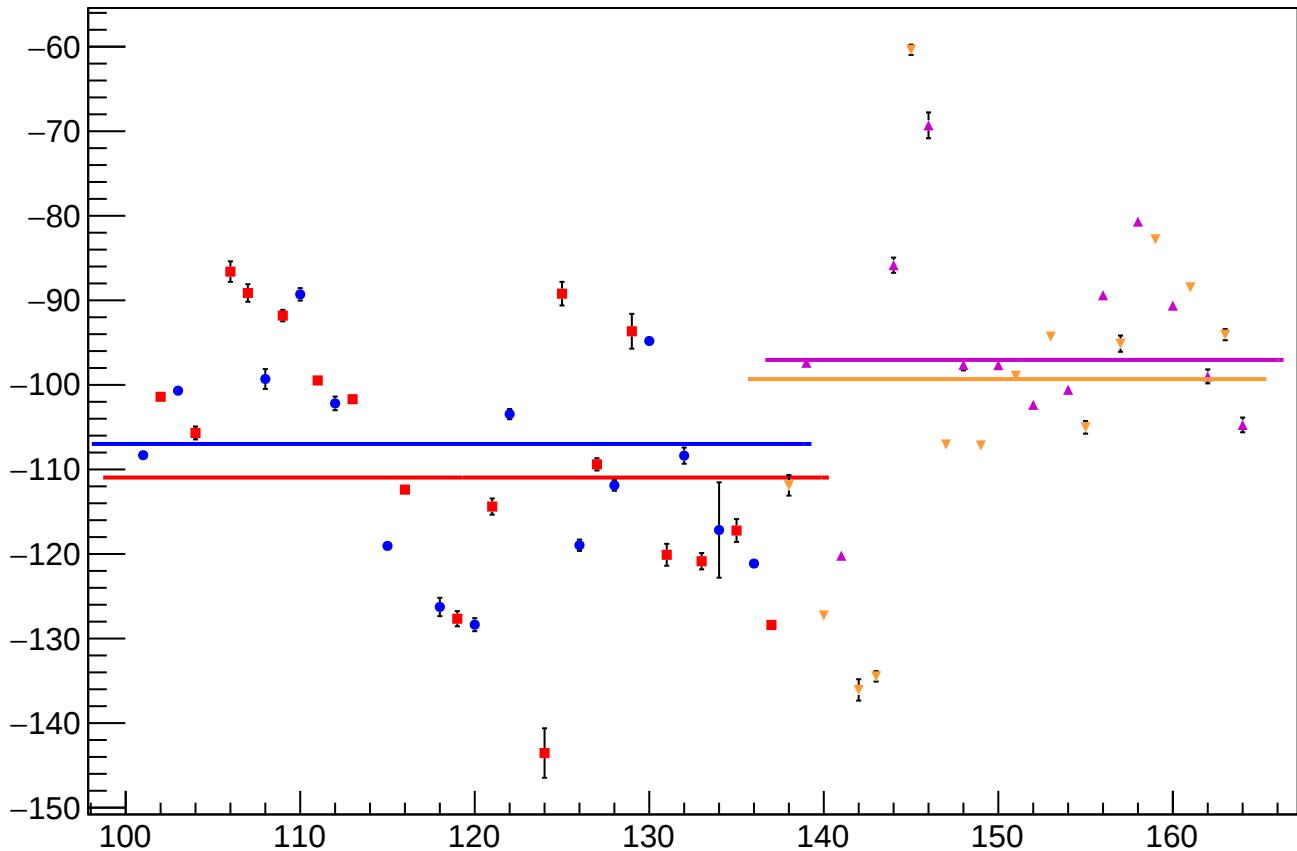
Left In:  $-15.524 \pm 0.147$   $\chi^2/\text{NDF}: 5758.8/12$

+ sign  $-12.881 \pm 0.135$   $\chi^2/\text{NDF}: 6082.1/28$

All:  $-13.153 \pm 0.075$   $\chi^2/\text{NDF}: 14703.9/59$

- sign  $-13.271 \pm 0.089$   $\chi^2/\text{NDF}: 8616.1/30$

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}$ : 4658.3/14

Left Out:  $-99.311 \pm 0.152$   $\chi^2/\text{NDF}$ : 14700.4/13

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}$ : 10675.0/17

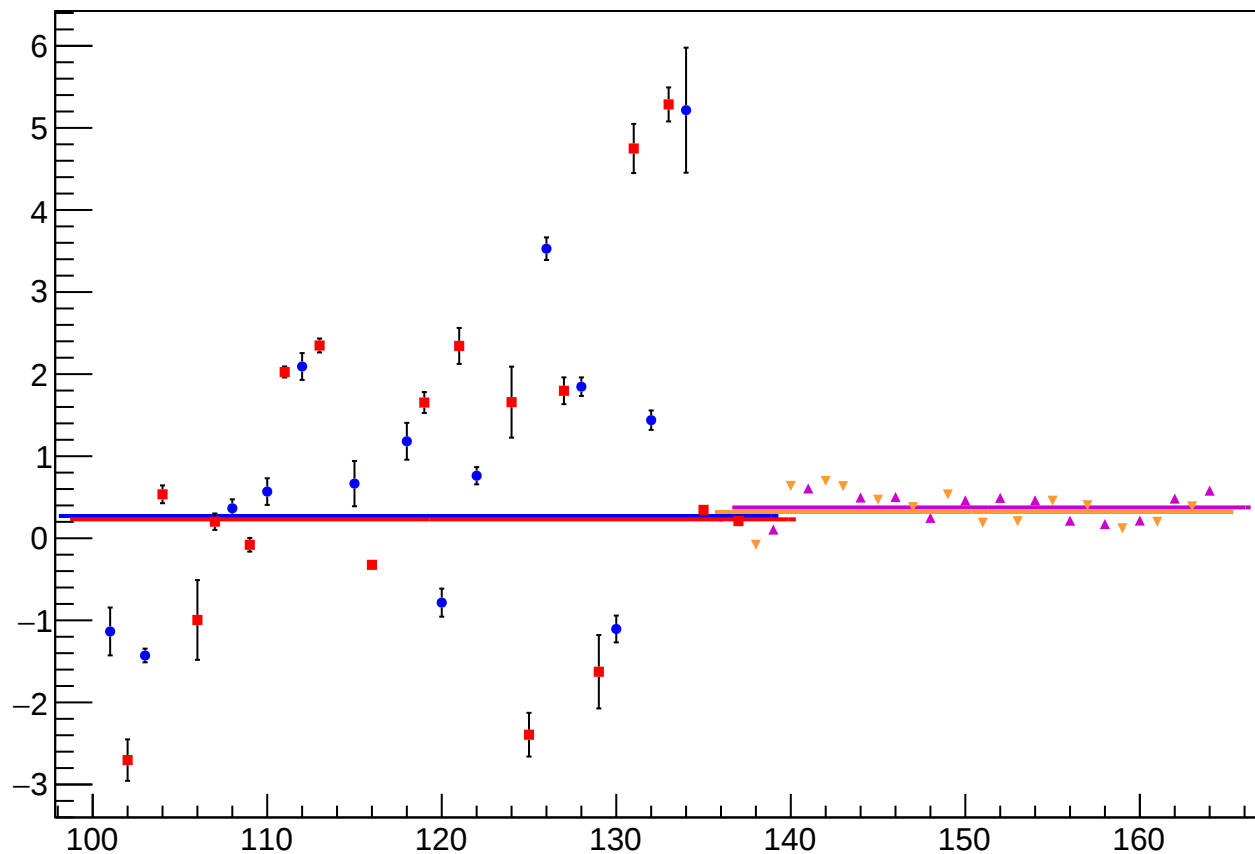
Left In:  $-97.045 \pm 0.123$   $\chi^2/\text{NDF}$ : 5333.3/12

+ sign  $-104.342 \pm 0.089$   $\chi^2/\text{NDF}$ : 21032.5/28

All:  $-107.985 \pm 0.041$   $\chi^2/\text{NDF}$ : 50092.2/59

- sign  $-108.977 \pm 0.046$   $\chi^2/\text{NDF}$ : 26931.9/30

# dit\_sam3\_11X12X\_slope vs Slug



Right In:  $0.271 \pm 0.005$   $\chi^2/\text{NDF}$ : 1612.2/14

Left Out:  $0.320 \pm 0.003$   $\chi^2/\text{NDF}$ : 6452.0/13

Right Out:  $0.231 \pm 0.004$   $\chi^2/\text{NDF}$ : 2907.8/17

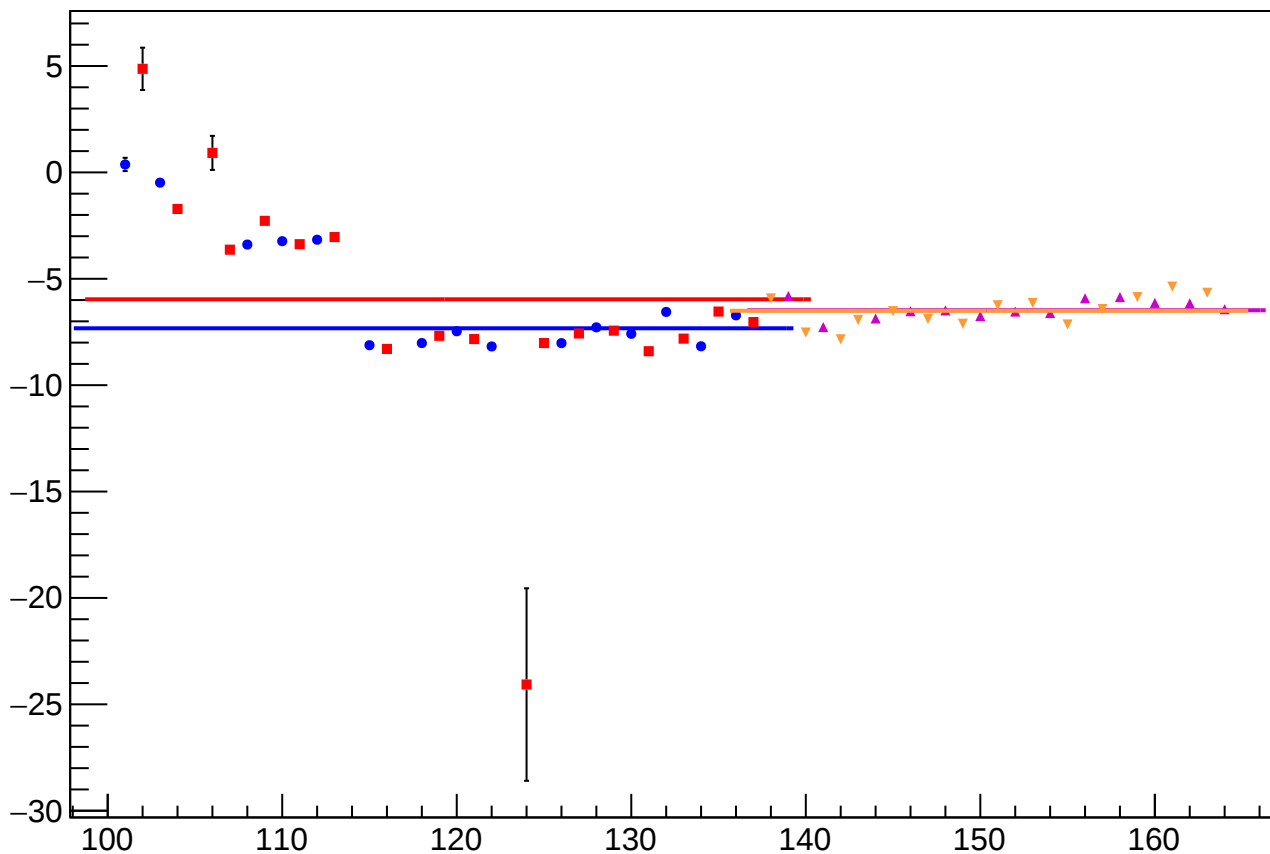
Left In:  $0.376 \pm 0.002$   $\chi^2/\text{NDF}$ : 7592.5/12

+ sign  $0.311 \pm 0.002$   $\chi^2/\text{NDF}$ : 8133.5/28

All:  $0.336 \pm 0.001$   $\chi^2/\text{NDF}$ : 19714.0/59

- sign  $0.351 \pm 0.002$   $\chi^2/\text{NDF}$ : 11394.7/30

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14

Left Out:  $-6.504 \pm 0.008$   $\chi^2/\text{NDF}$ : 5548.3/13

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17

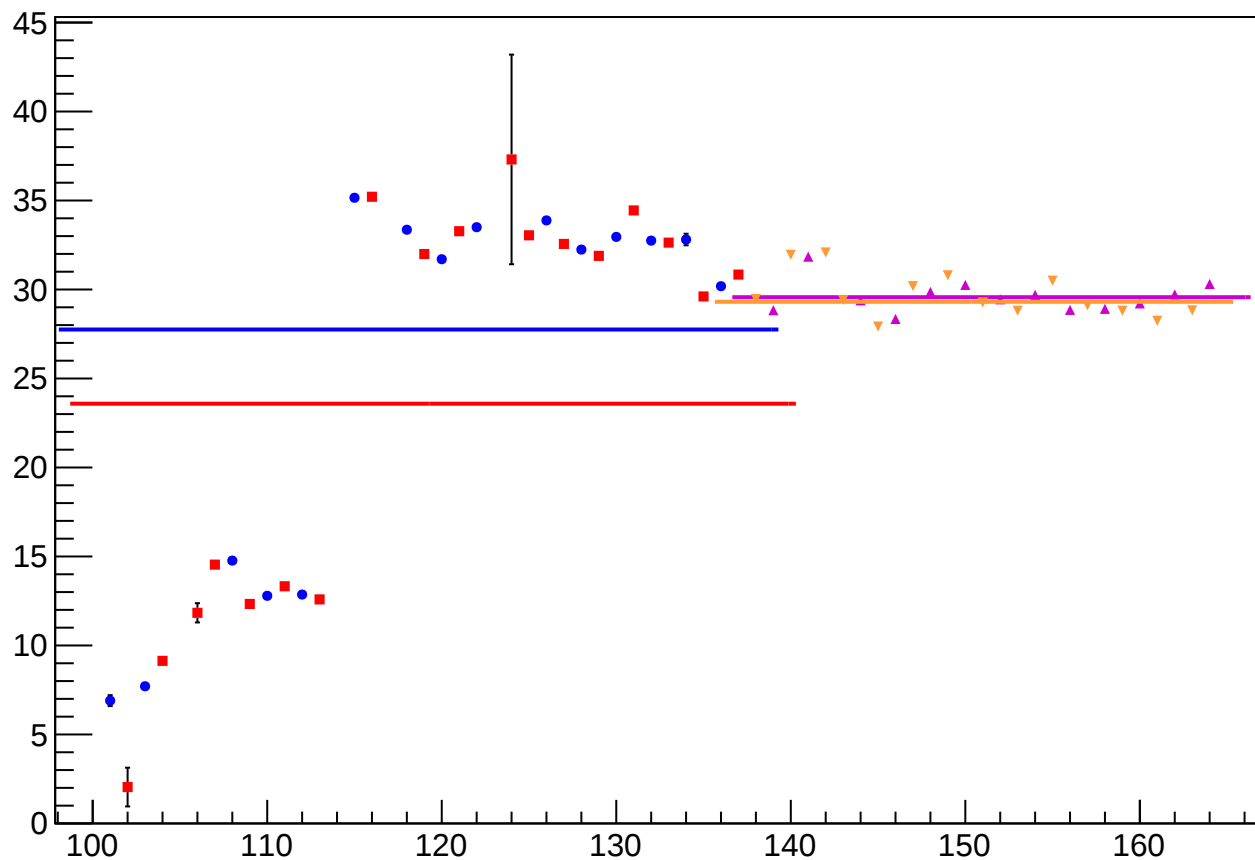
Left In:  $-6.478 \pm 0.006$   $\chi^2/\text{NDF}$ : 5248.7/12

+ sign  $-6.879 \pm 0.006$   $\chi^2/\text{NDF}$ : 41291.3/28

All:  $-6.560 \pm 0.004$   $\chi^2/\text{NDF}$ : 126321.7/59

- sign  $-6.312 \pm 0.005$   $\chi^2/\text{NDF}$ : 79386.9/30

# dit\_sam3\_4eY\_slope vs Slug



Right In: 27.752+/-0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.309+/-0.013  $\chi^2$ /NDF: 8293.2/13

Right Out: 23.585+/-0.014  $\chi^2$ /NDF: 539616.2/17

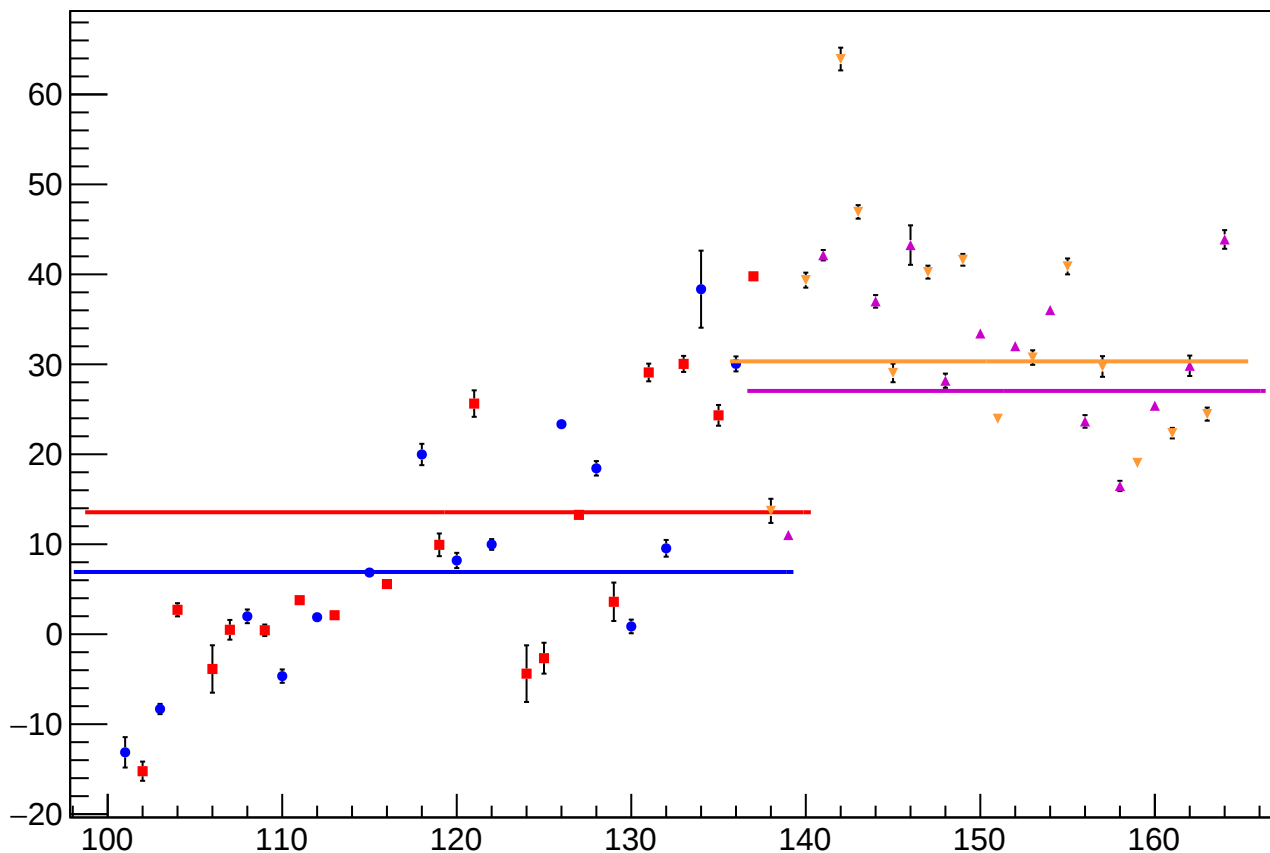
Left In: 29.568+/-0.011  $\chi^2$ /NDF: 3011.1/12

+ sign 28.670+/-0.010  $\chi^2$ /NDF: 347539.4/28

All: 27.864+/-0.006  $\chi^2$ /NDF: 1018509.4/59

- sign 27.225+/-0.009  $\chi^2$ /NDF: 658428.1/30

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $30.331 \pm 0.194$   $\chi^2/\text{NDF}: 3107.3/13$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

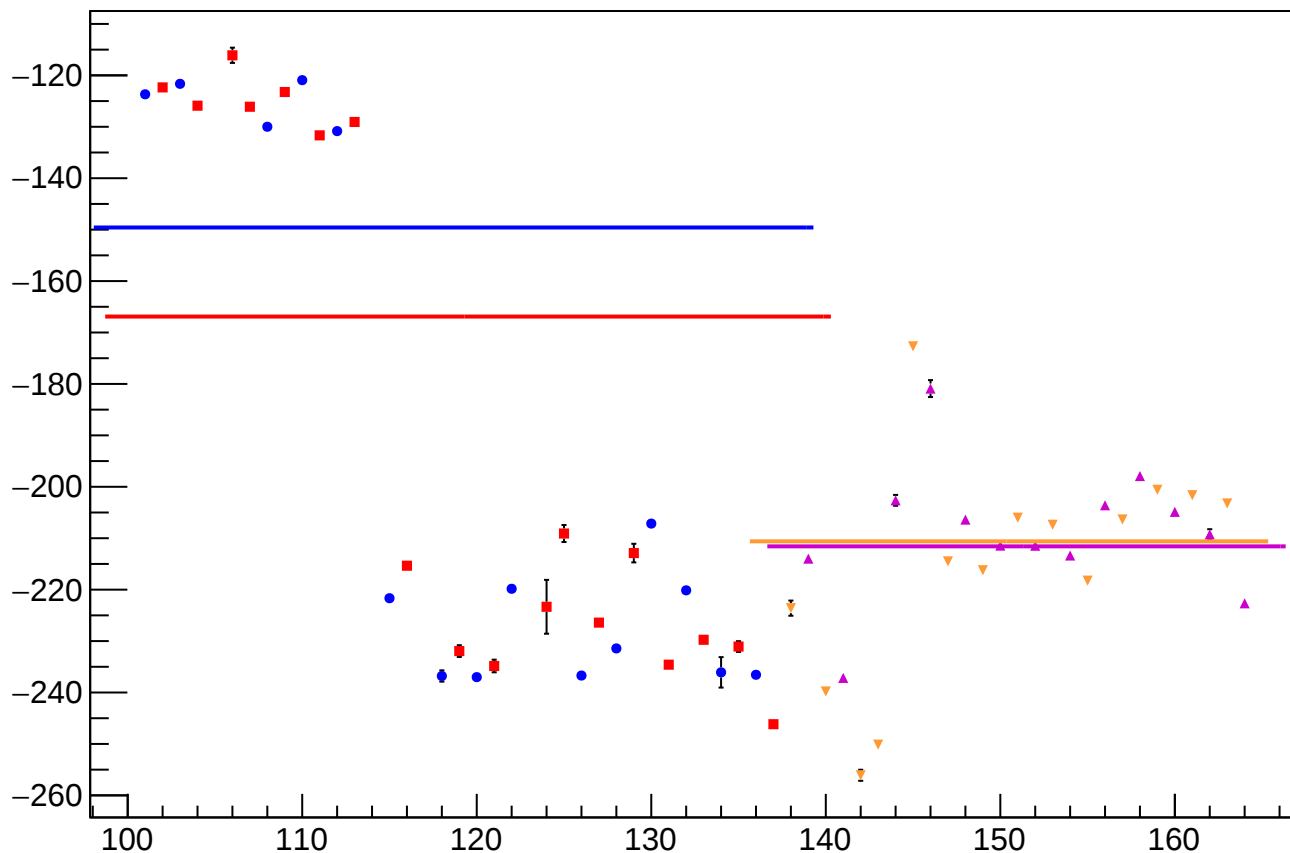
Left In:  $27.043 \pm 0.146$   $\chi^2/\text{NDF}: 4900.6/12$

+ sign  $17.501 \pm 0.131$   $\chi^2/\text{NDF}: 14562.2/28$

All:  $19.209 \pm 0.081$   $\chi^2/\text{NDF}: 35695.7/59$

- sign  $20.266 \pm 0.103$   $\chi^2/\text{NDF}: 20857.1/30$

# dit\_sam4\_4eX\_slope vs Slug



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}: 195091.5/14$

Left Out:  $-210.605 \pm 0.157$   $\chi^2/\text{NDF}: 11971.3/13$

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}: 295489.9/17$

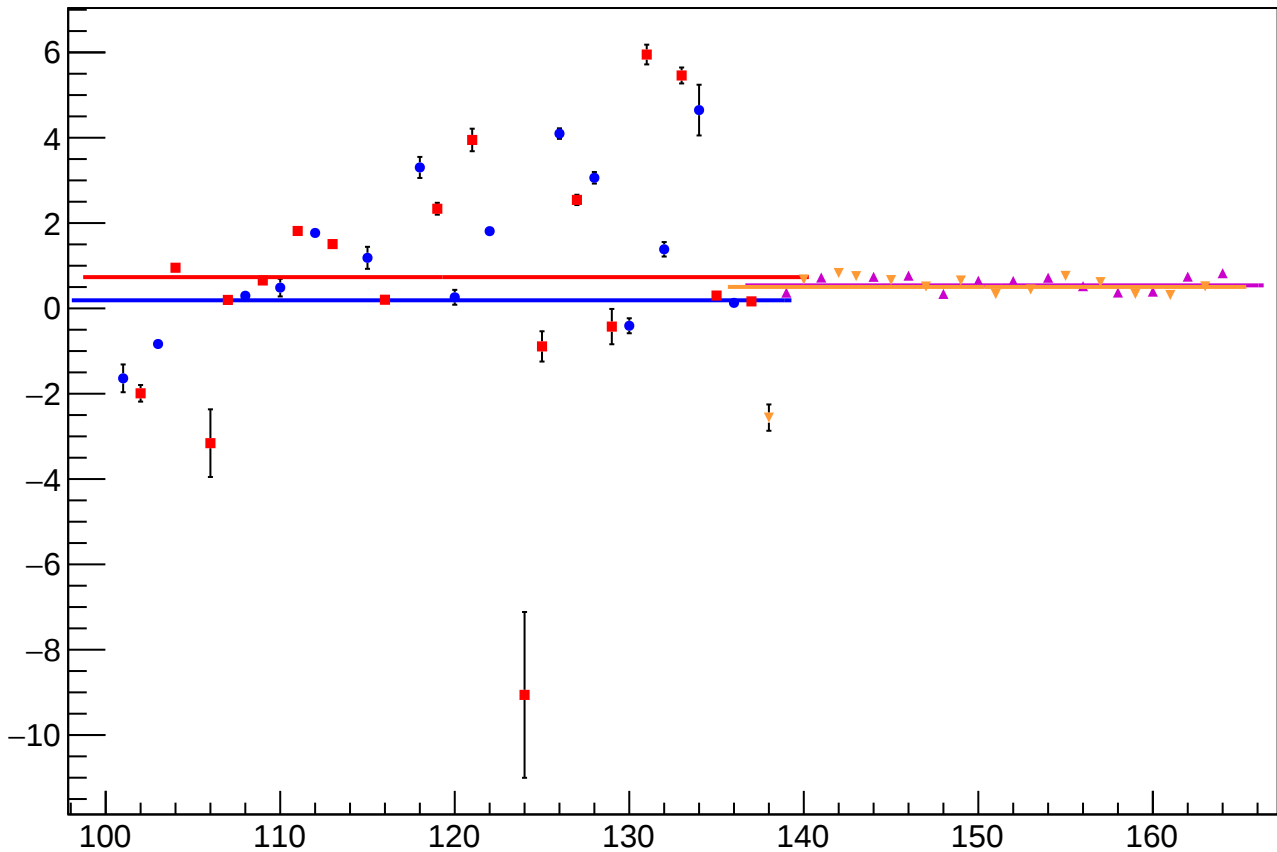
Left In:  $-211.583 \pm 0.122$   $\chi^2/\text{NDF}: 5278.1/12$

+ sign  $-167.415 \pm 0.085$   $\chi^2/\text{NDF}: 314026.3/28$

All:  $-176.959 \pm 0.057$   $\chi^2/\text{NDF}: 717758.1/59$

- sign  $-184.952 \pm 0.078$   $\chi^2/\text{NDF}: 380490.3/30$

# dit\_sam4\_11X12X\_slope vs Slug



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}$ : 2727.5/14

Left Out:  $0.503 \pm 0.003$   $\chi^2/\text{NDF}$ : 3340.9/13

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}$ : 2666.9/17

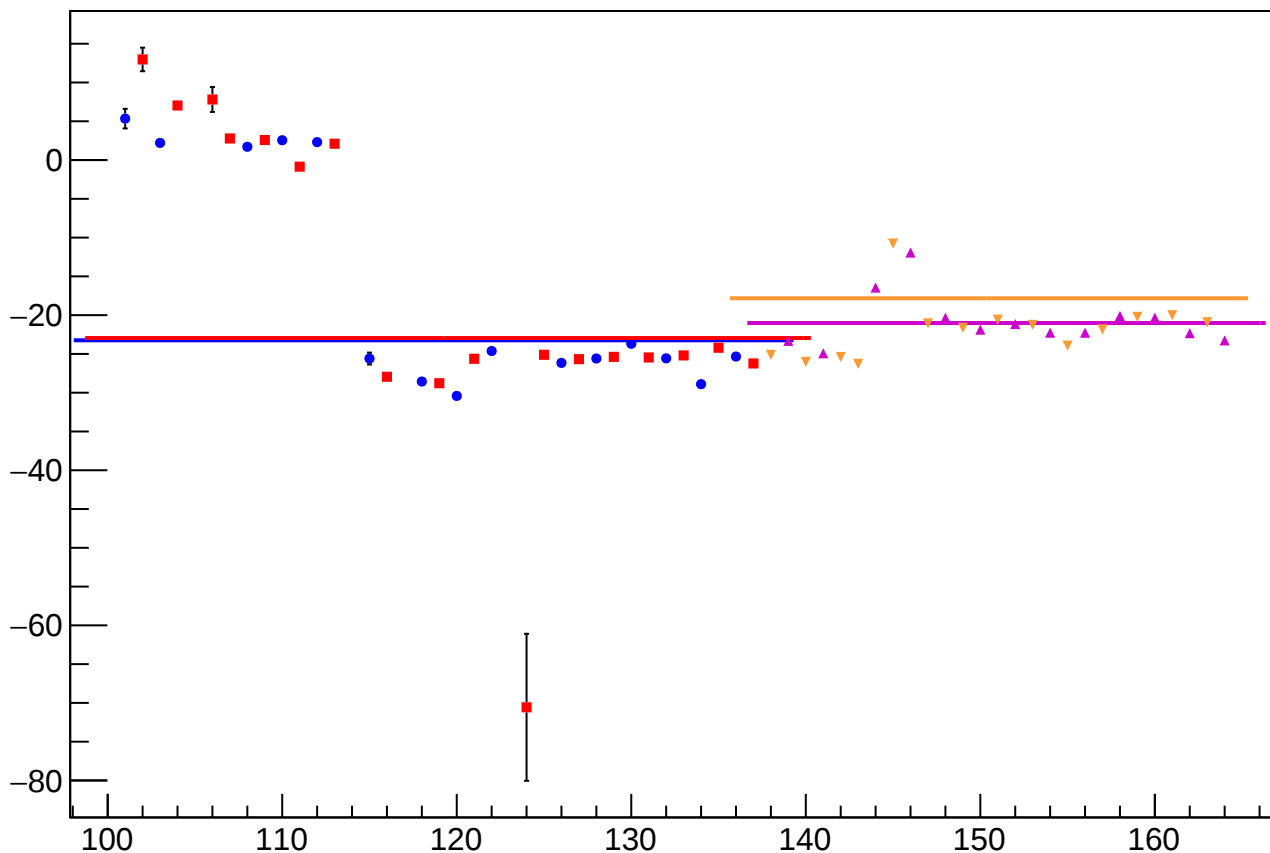
Left In:  $0.540 \pm 0.002$   $\chi^2/\text{NDF}$ : 4274.8/12

+ sign  $0.469 \pm 0.003$   $\chi^2/\text{NDF}$ : 7247.4/28

All:  $0.512 \pm 0.002$   $\chi^2/\text{NDF}$ : 14674.7/59

- sign  $0.543 \pm 0.002$   $\chi^2/\text{NDF}$ : 7035.8/30

# dit\_sam4\_4aY\_slope vs Slug



Right In: -23.241±/-0.025  $\chi^2/\text{NDF}$ : 103102.8/14

Left Out: -17.822±/-0.015  $\chi^2/\text{NDF}$ :123746.2/13

Right Out: -22.951±/-0.025  $\chi^2/\text{NDF}$ : 108039.1/17

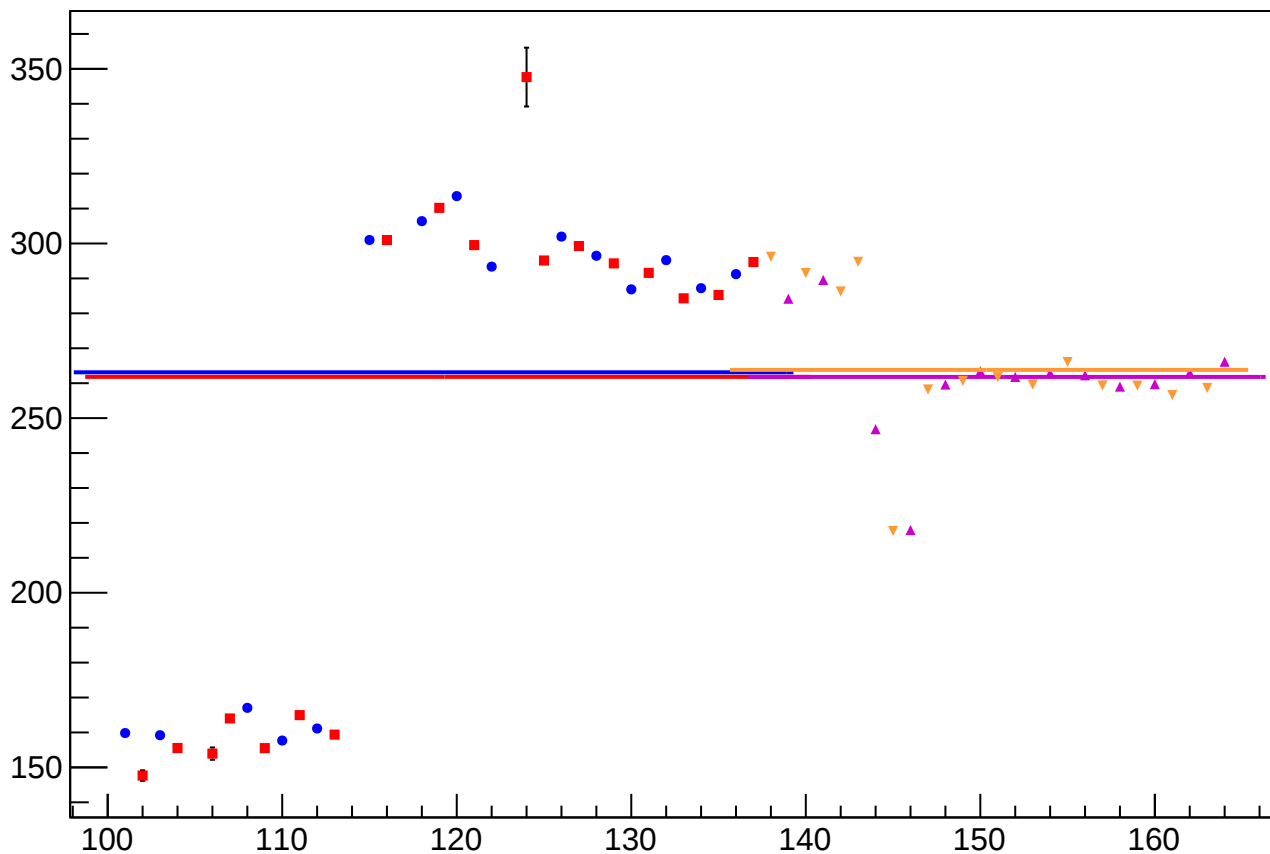
Left In: -21.015±/-0.016  $\chi^2/\text{NDF}$ :10549.4/12

+ sign -19.301±/-0.013  $\chi^2/\text{NDF}$ : 261658.1/28

All: -20.412±/-0.009  $\chi^2/\text{NDF}$ : 399674.6/59

- sign -21.570±/-0.013  $\chi^2/\text{NDF}$ : 122973.7/30

# dit\_sam4\_4eY\_slope vs Slug



Right In: 263.120+/-0.069  $\chi^2/\text{NDF}$ : 692885.4/14

Left Out: 263.812+/-0.038  $\chi^2/\text{NDF}$ :194853.8/13

Right Out: 261.814+/-0.060  $\chi^2/\text{NDF}$ : 1006189.6/17

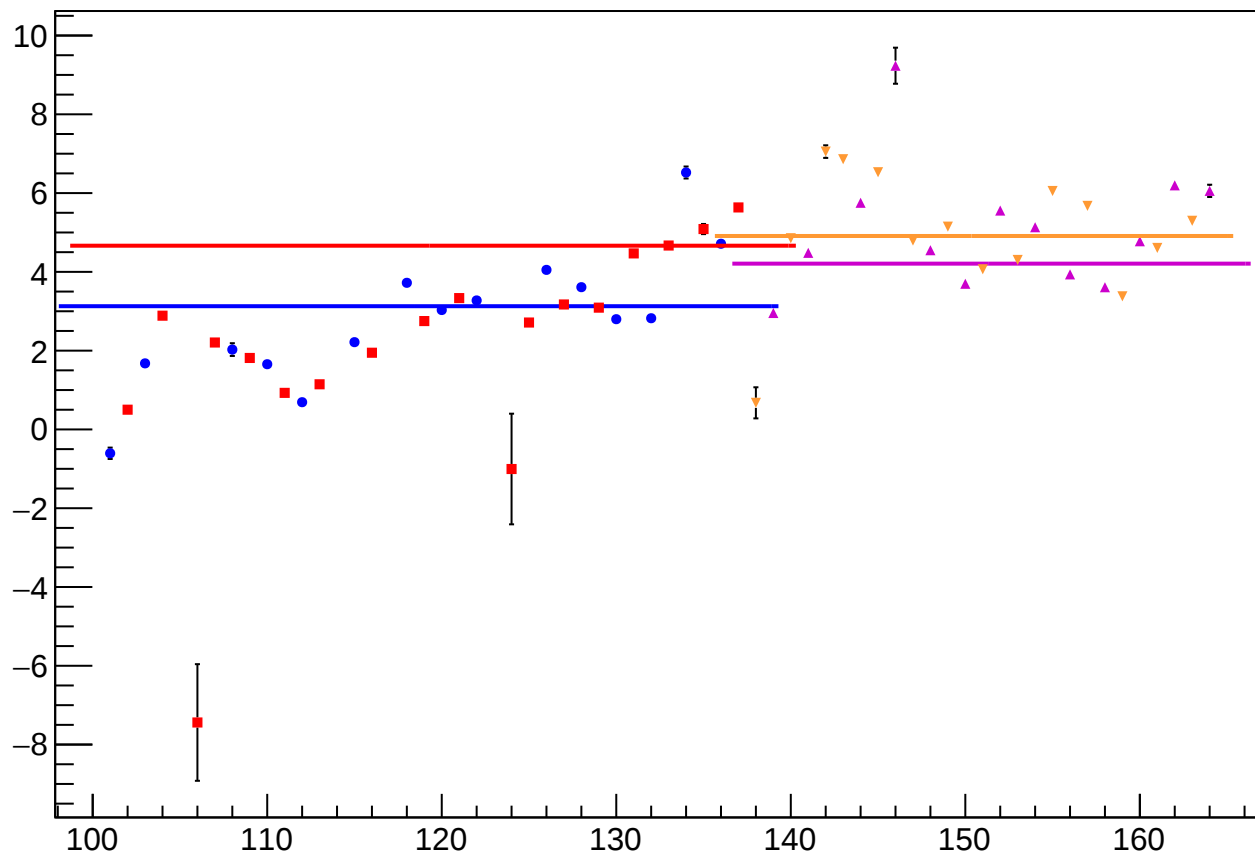
Left In: 261.799+/-0.033  $\chi^2/\text{NDF}$ :36635.8/12

+ sign 263.649+/-0.033  $\chi^2/\text{NDF}$ : 887815.8/28

All: 262.598+/-0.022  $\chi^2/\text{NDF}$ : 1932373.6/59

- sign 261.803+/-0.029  $\chi^2/\text{NDF}$ : 1042825.4/30

# dit\_sam5\_4aX\_slope vs Slug



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}$ : 5667.8/14

Left Out:  $4.911 \pm 0.016$   $\chi^2/\text{NDF}$ : 2183.5/13

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}$ : 66862.5/17

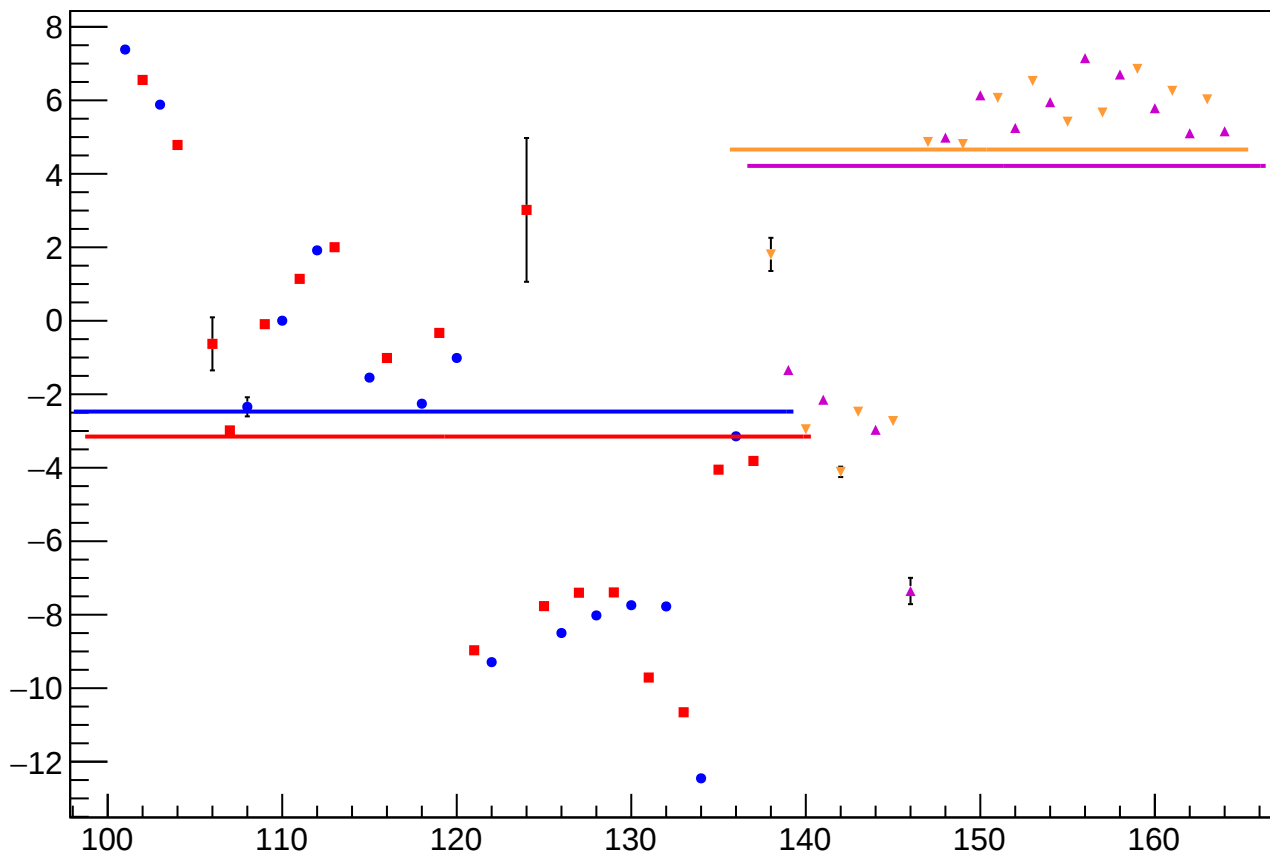
Left In:  $4.209 \pm 0.016$   $\chi^2/\text{NDF}$ : 3238.7/12

+ sign  $3.982 \pm 0.011$   $\chi^2/\text{NDF}$ : 13976.7/28

All:  $4.470 \pm 0.005$   $\chi^2/\text{NDF}$ : 87133.0/59

- sign  $4.601 \pm 0.006$   $\chi^2/\text{NDF}$ : 70821.5/30

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $4.661 \pm 0.013$   $\chi^2/\text{NDF}: 38757.8/13$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

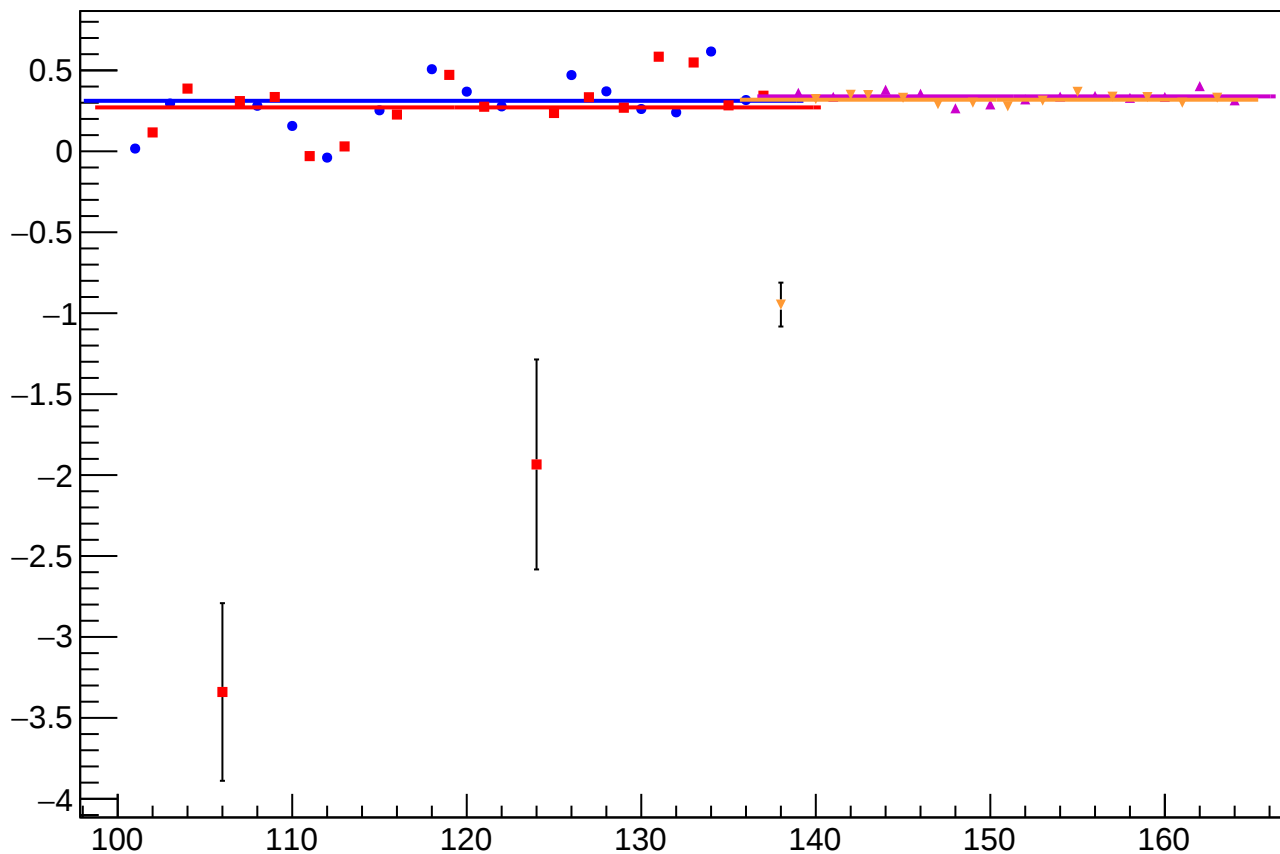
Left In:  $4.216 \pm 0.013$   $\chi^2/\text{NDF}: 62512.3/12$

+ sign  $1.254 \pm 0.010$   $\chi^2/\text{NDF}: 414883.9/28$

All:  $-0.598 \pm 0.005$   $\chi^2/\text{NDF}: 1007511.2/59$

- sign  $-1.422 \pm 0.007$   $\chi^2/\text{NDF}: 540461.3/30$

# dit\_sam5\_11X12X\_slope vs Slug



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}$ : 1319.2/14

Left Out:  $0.319 \pm 0.001$   $\chi^2/\text{NDF}$ : 1316.0/13

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}$ : 6144.7/17

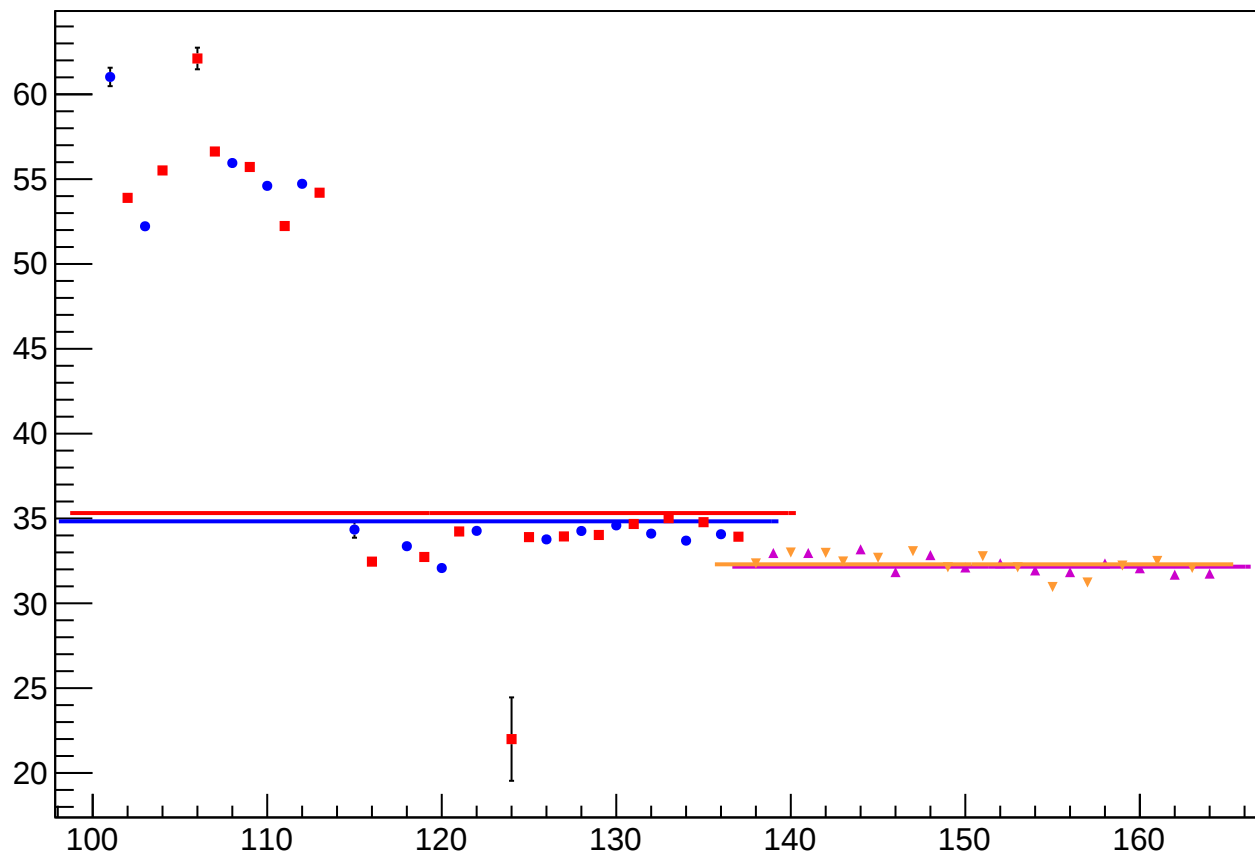
Left In:  $0.339 \pm 0.001$   $\chi^2/\text{NDF}$ : 2792.0/12

+ sign  $0.317 \pm 0.001$   $\chi^2/\text{NDF}$ : 2657.5/28

All:  $0.325 \pm 0.000$   $\chi^2/\text{NDF}$ : 12863.9/59

- sign  $0.333 \pm 0.001$   $\chi^2/\text{NDF}$ : 9883.2/30

# dit\_sam5\_4aY\_slope vs Slug



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 32.298 $\pm$ 0.005  $\chi^2$ /NDF:3868.6/13

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

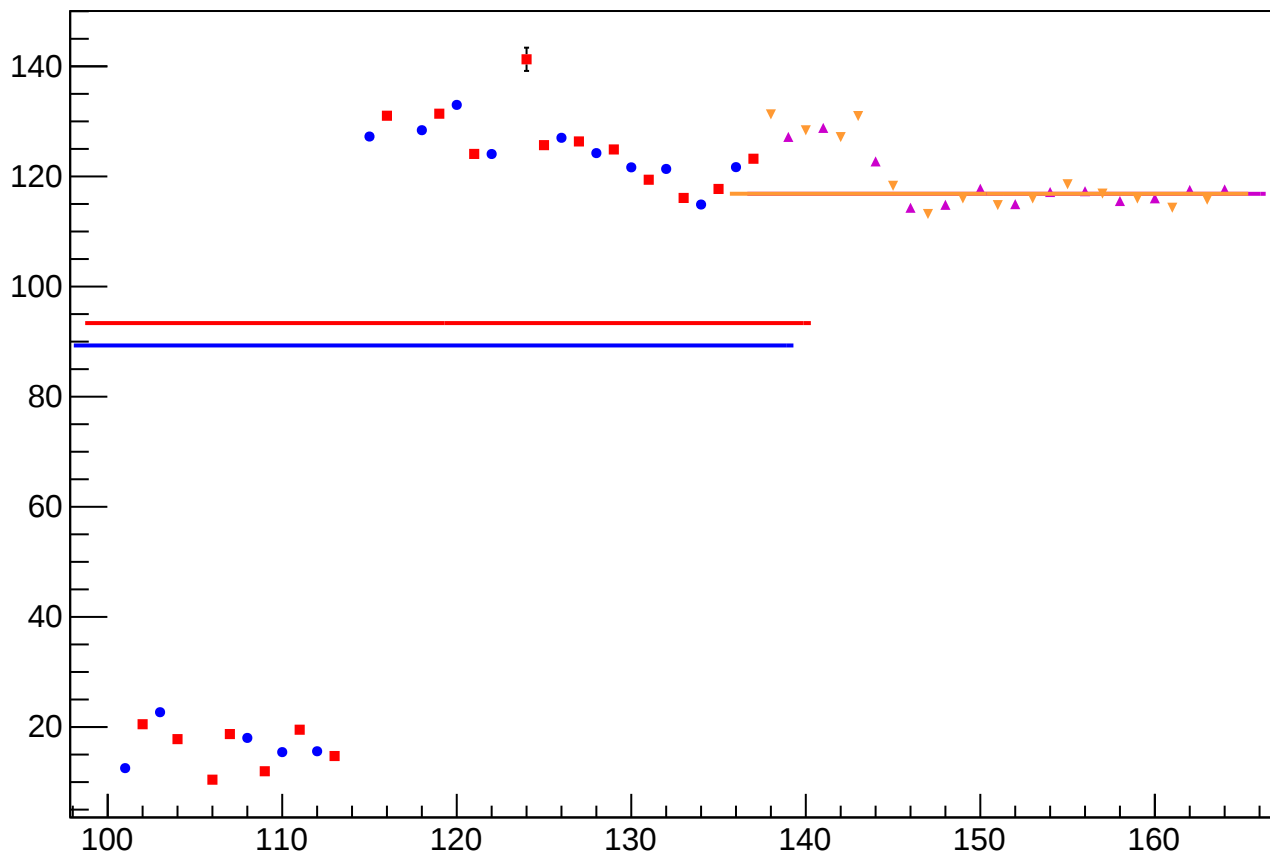
Left In: 32.159 $\pm$ 0.004  $\chi^2$ /NDF:6992.0/12

+ sign 32.847 $\pm$ 0.004  $\chi^2$ /NDF: 317128.5/28

All: 32.750 $\pm$ 0.003  $\chi^2$ /NDF: 671677.9/59

- sign 32.657 $\pm$ 0.004  $\chi^2$ /NDF: 353415.0/30

# dit\_sam5\_4eY\_slope vs Slug



Right In: 89.302 $\pm$ 0.027  $\chi^2$ /NDF: 3034485.1/14

Left Out: 116.859 $\pm$ 0.010  $\chi^2$ /NDF: 119630.7/13

Right Out: 93.367 $\pm$ 0.030  $\chi^2$ /NDF: 2852493.6/17

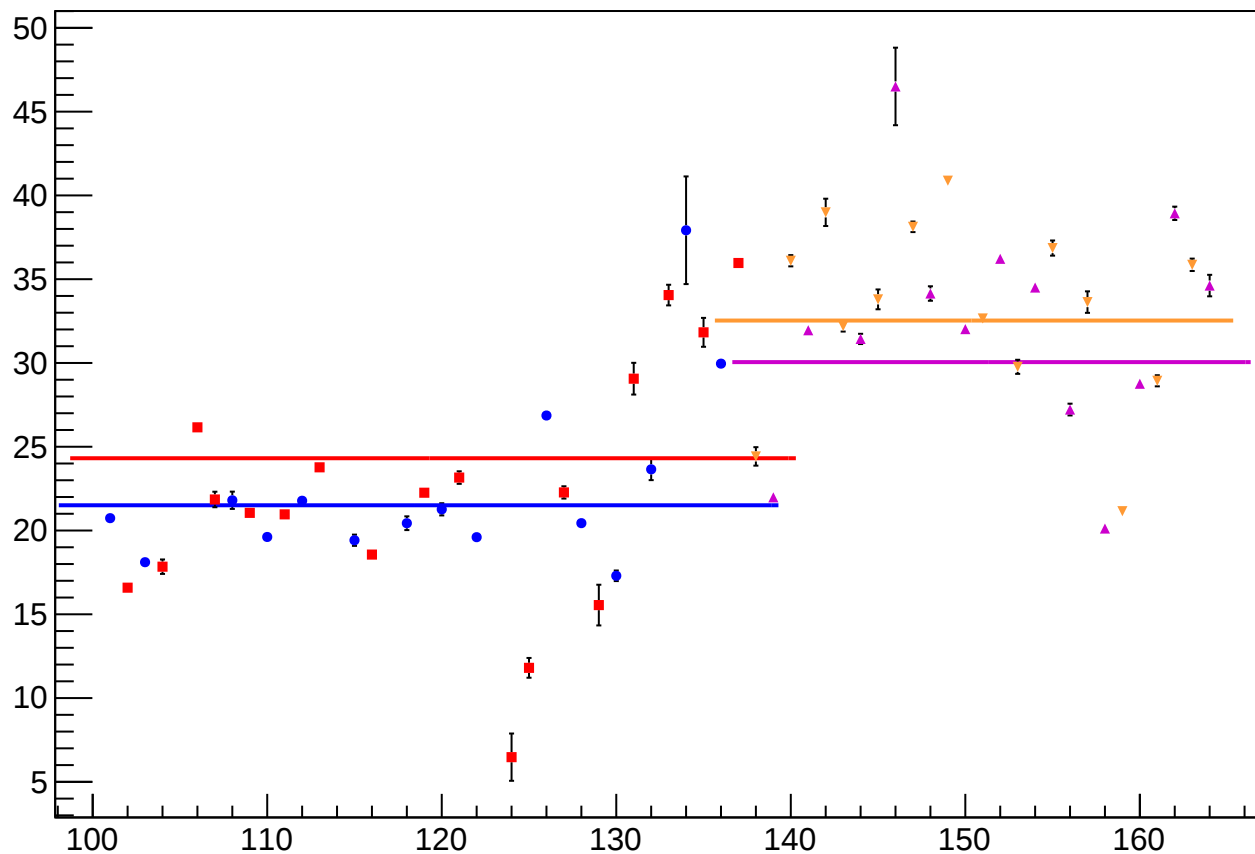
Left In: 116.846 $\pm$ 0.010  $\chi^2$ /NDF: 41716.9/12

+ sign 113.573 $\pm$ 0.009  $\chi^2$ /NDF: 4042539.0/28

All: 114.154 $\pm$ 0.007  $\chi^2$ /NDF: 7502317.1/59

- sign 114.687 $\pm$ 0.009  $\chi^2$ /NDF: 3452568.9/30

# dit\_sam6\_4aX\_slope vs Slug



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}$ : 2963.0/14

Left Out:  $32.532 \pm 0.097$   $\chi^2/\text{NDF}$ : 3745.3/13

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}$ : 14295.4/17

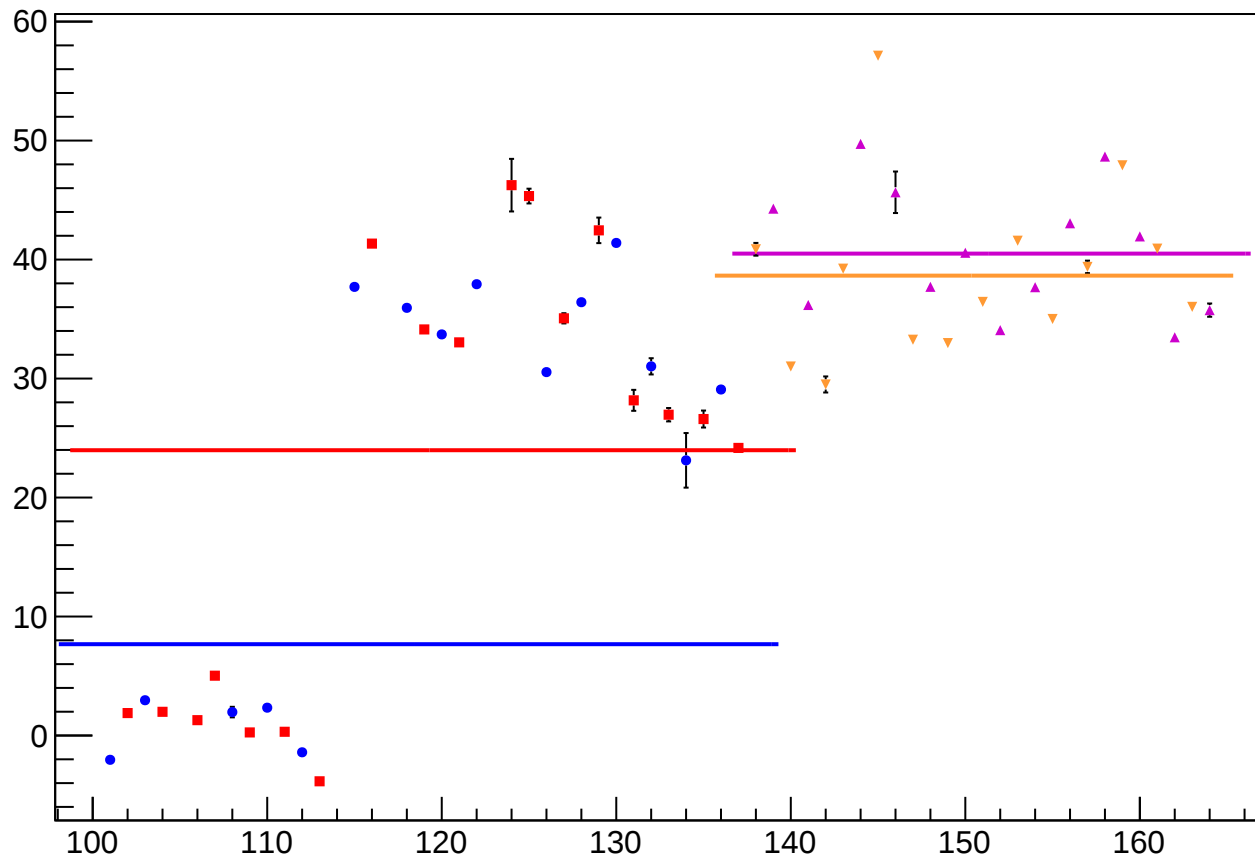
Left In:  $30.051 \pm 0.079$   $\chi^2/\text{NDF}$ : 4634.7/12

+ sign  $25.462 \pm 0.058$   $\chi^2/\text{NDF}$ : 15045.7/28

All:  $25.993 \pm 0.036$   $\chi^2/\text{NDF}$ : 37519.1/59

- sign  $26.342 \pm 0.047$   $\chi^2/\text{NDF}$ : 22334.2/30

# dit\_sam6\_4eX\_slope vs Slug



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}: 96442.5/14$

Left Out:  $38.650 \pm 0.079$   $\chi^2/\text{NDF}: 6272.3/13$

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}: 110564.0/17$

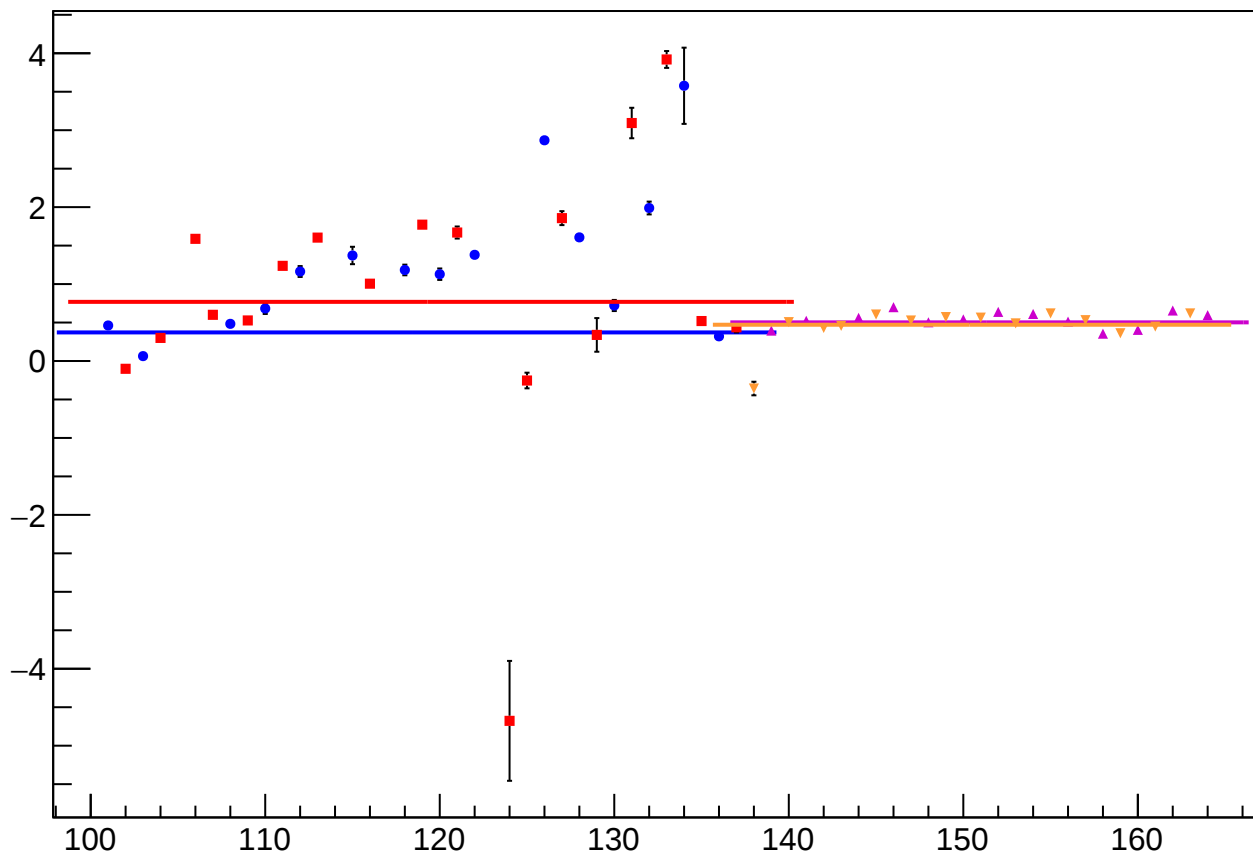
Left In:  $40.500 \pm 0.065$   $\chi^2/\text{NDF}: 4180.8/12$

+ sign  $15.280 \pm 0.039$   $\chi^2/\text{NDF}: 217836.7/28$

All:  $23.868 \pm 0.008$   $\chi^2/\text{NDF}: 445910.5/59$

- sign  $24.234 \pm 0.008$   $\chi^2/\text{NDF}: 178261.7/30$

# dit\_sam6\_11X12X\_slope vs Slug



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}$ : 4748.7/14

Left Out:  $0.471 \pm 0.001$   $\chi^2/\text{NDF}$ : 5357.7/13

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}$ : 4137.5/17

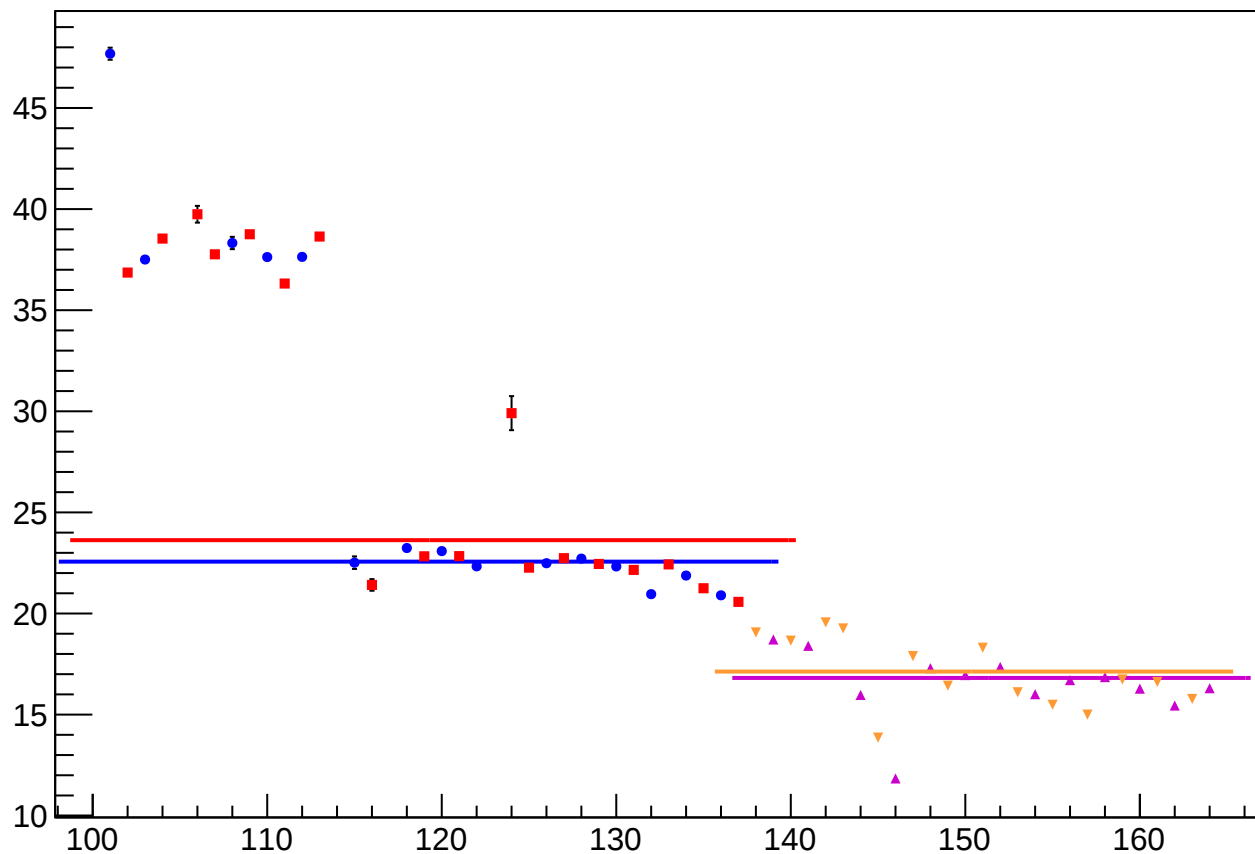
Left In:  $0.502 \pm 0.001$   $\chi^2/\text{NDF}$ : 8579.6/12

+ sign  $0.464 \pm 0.001$   $\chi^2/\text{NDF}$ : 10590.4/28

All:  $0.488 \pm 0.001$   $\chi^2/\text{NDF}$ : 25489.0/59

- sign  $0.510 \pm 0.001$   $\chi^2/\text{NDF}$ : 14150.8/30

# dit\_sam6\_4aY\_slope vs Slug



Right In: 22.565 $\pm$ 0.010  $\chi^2$ /NDF: 92859.1/14

Left Out: 17.128 $\pm$ 0.007  $\chi^2$ /NDF: 46883.0/13

Right Out: 23.627 $\pm$ 0.011  $\chi^2$ /NDF: 123194.1/17

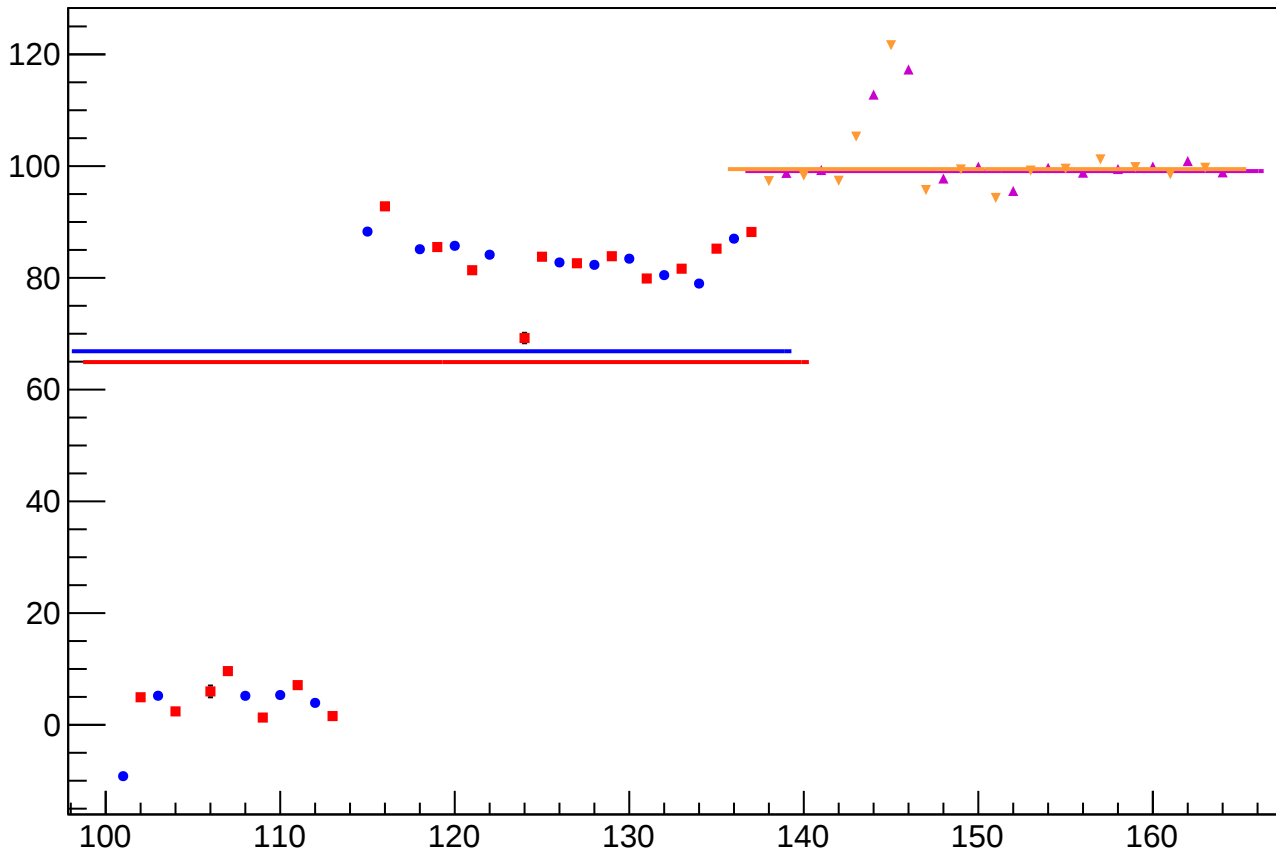
Left In: 16.813 $\pm$ 0.008  $\chi^2$ /NDF: 14676.9/12

+ sign 18.936 $\pm$ 0.006  $\chi^2$ /NDF: 330370.1/28

All: 18.994 $\pm$ 0.004  $\chi^2$ /NDF: 715326.2/59

- sign 19.065 $\pm$ 0.006  $\chi^2$ /NDF: 384737.3/30

# dit\_sam6\_4eY\_slope vs Slug



Right In: 66.866 $\pm$ 0.027  $\chi^2$ /NDF: 1494212.3/14

Left Out: 99.462 $\pm$ 0.014  $\chi^2$ /NDF: 69219.7/13

Right Out: 64.929 $\pm$ 0.030  $\chi^2$ /NDF: 1334580.7/17

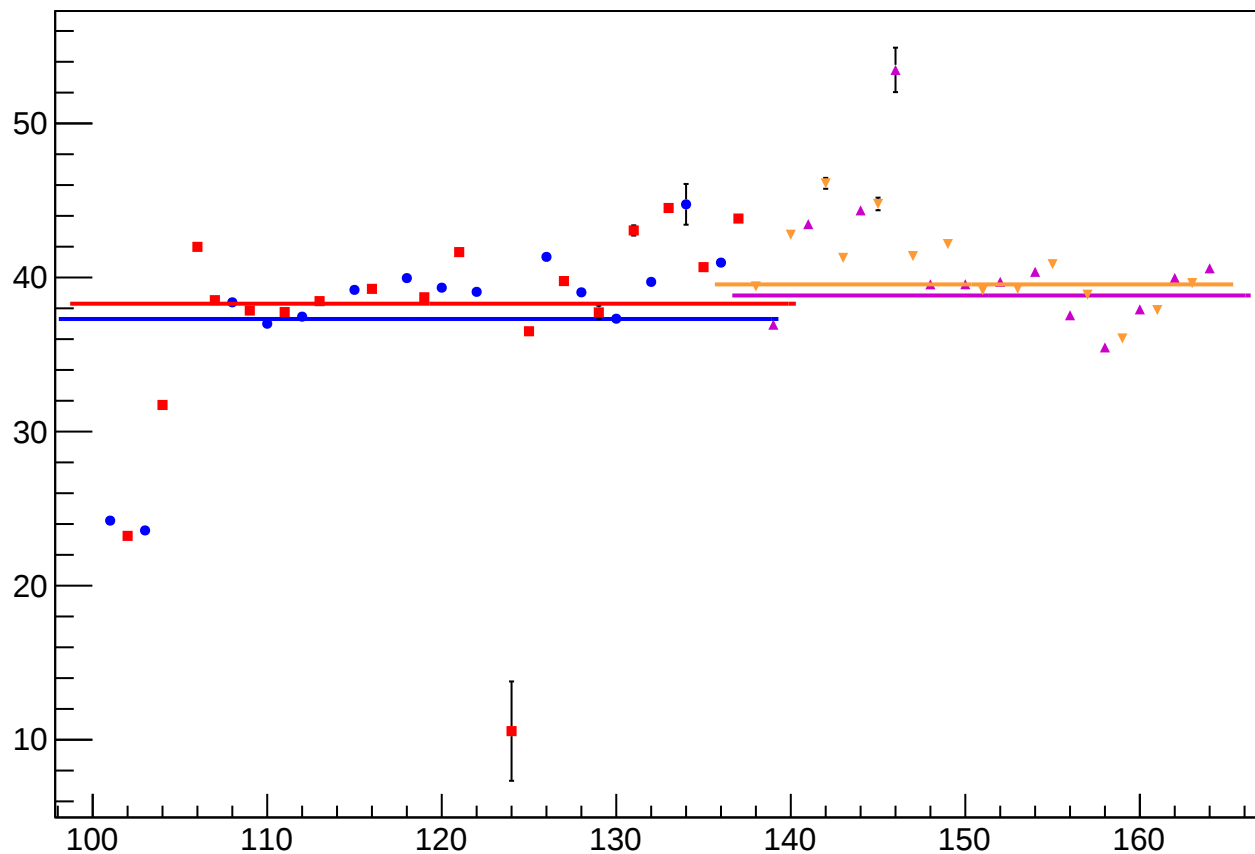
Left In: 99.112 $\pm$ 0.013  $\chi^2$ /NDF: 16402.3/12

+ sign 92.947 $\pm$ 0.012  $\chi^2$ /NDF: 2724389.2/28

All: 93.158 $\pm$ 0.009  $\chi^2$ /NDF: 5176150.8/59

- sign 93.372 $\pm$ 0.012  $\chi^2$ /NDF: 2451148.4/30

# dit\_sam7\_4aX\_slope vs Slug



Right In: 37.308 $\pm$ 0.023  $\chi^2$ /NDF: 59580.0/14

Left Out: 39.552 $\pm$ 0.037  $\chi^2$ /NDF: 3876.5/13

Right Out: 38.300 $\pm$ 0.021  $\chi^2$ /NDF: 18840.0/17

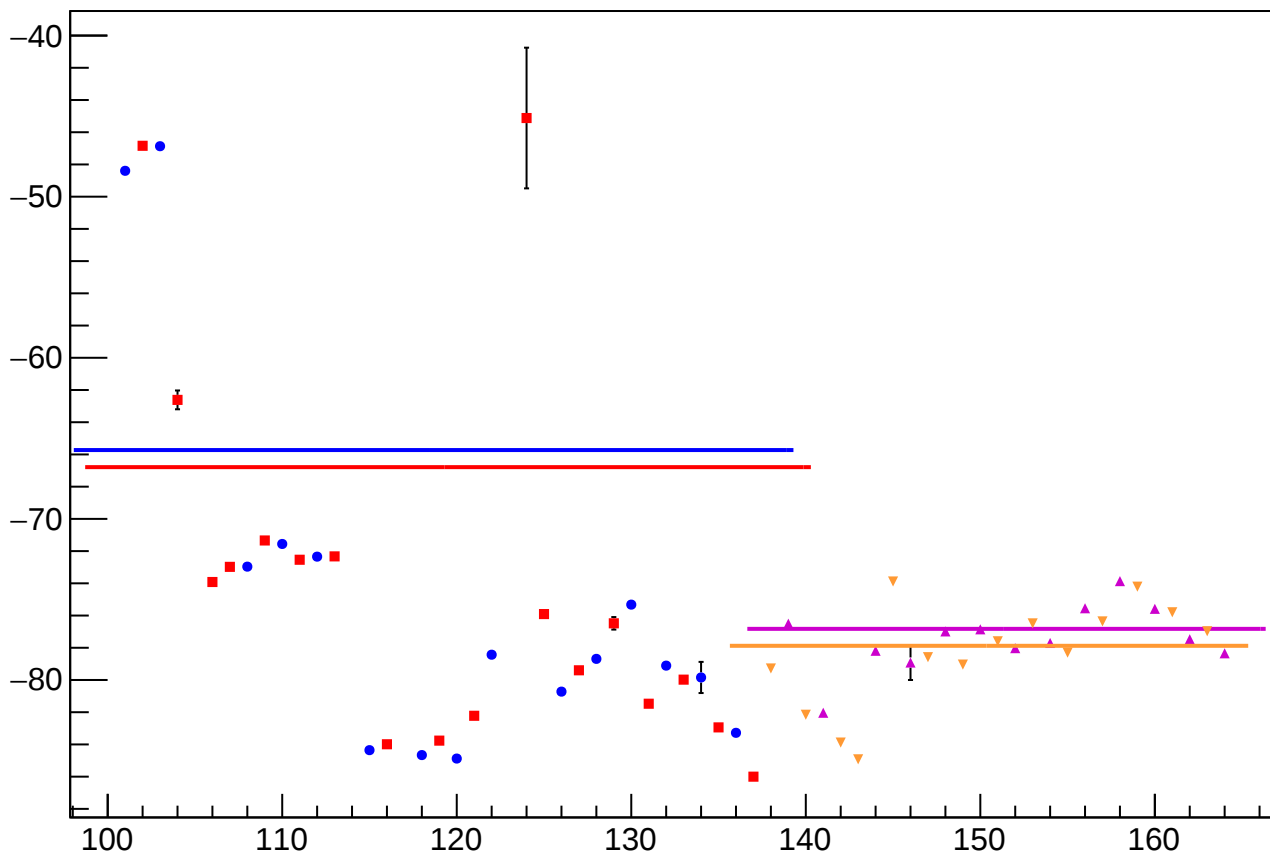
Left In: 38.833 $\pm$ 0.028  $\chi^2$ /NDF: 5418.2/12

+ sign 37.943 $\pm$ 0.020  $\chi^2$ /NDF: 66134.1/28

All: 38.257 $\pm$ 0.013  $\chi^2$ /NDF: 91067.9/59

- sign 38.483 $\pm$ 0.017  $\chi^2$ /NDF: 24490.6/30

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-77.878 \pm 0.031$   $\chi^2/\text{NDF}: 11249.0/13$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

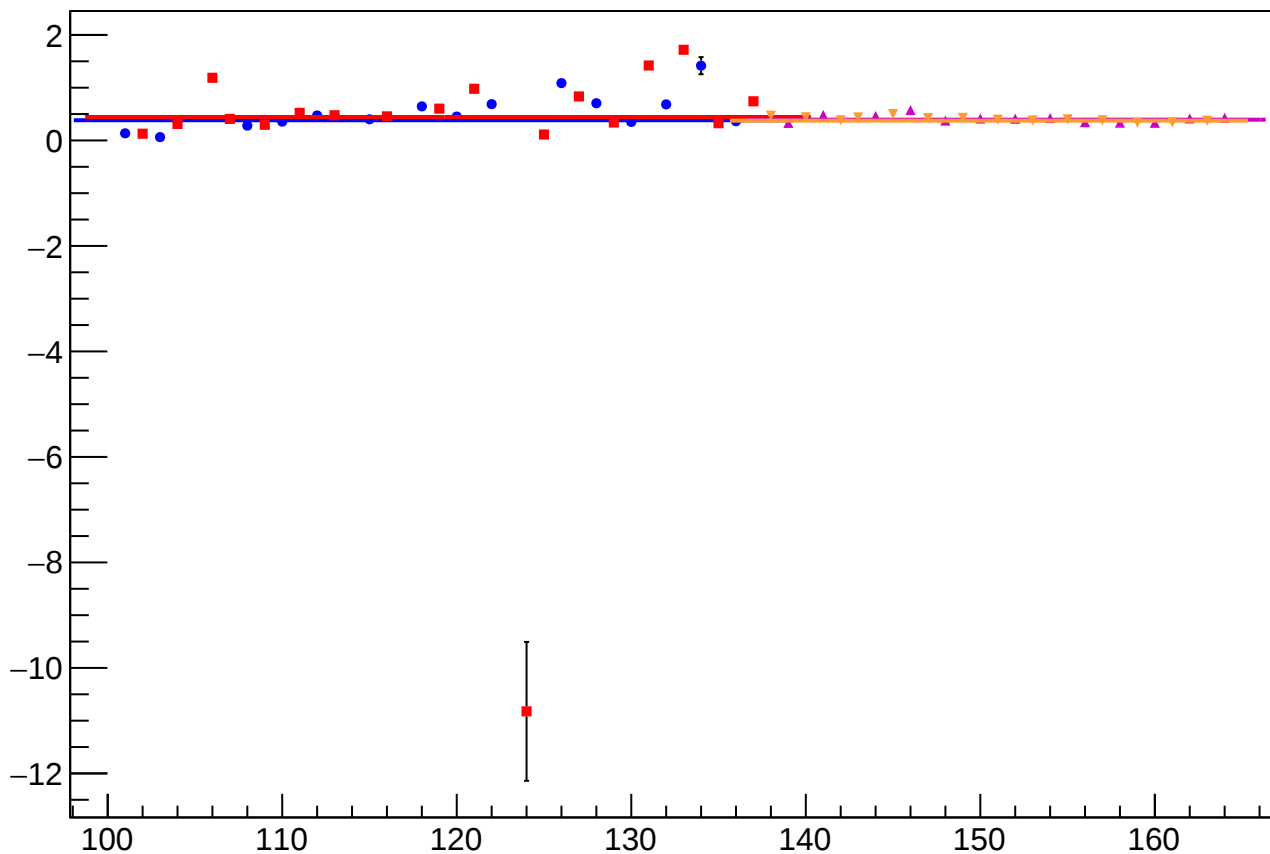
Left In:  $-76.826 \pm 0.023$   $\chi^2/\text{NDF}: 4834.7/12$

+ sign  $-68.562 \pm 0.015$   $\chi^2/\text{NDF}: 1035603.7/28$

All:  $-69.412 \pm 0.010$   $\chi^2/\text{NDF}: 1987487.1/59$

- sign  $-70.069 \pm 0.013$   $\chi^2/\text{NDF}: 945998.8/30$

# dit\_sam7\_11X12X\_slope vs Slug



Right In:  $0.383 \pm 0.002$   $\chi^2/\text{NDF}$ : 8173.1/14

Left Out:  $0.375 \pm 0.001$   $\chi^2/\text{NDF}$ : 5351.4/13

Right Out:  $0.444 \pm 0.004$   $\chi^2/\text{NDF}$ : 2786.2/17

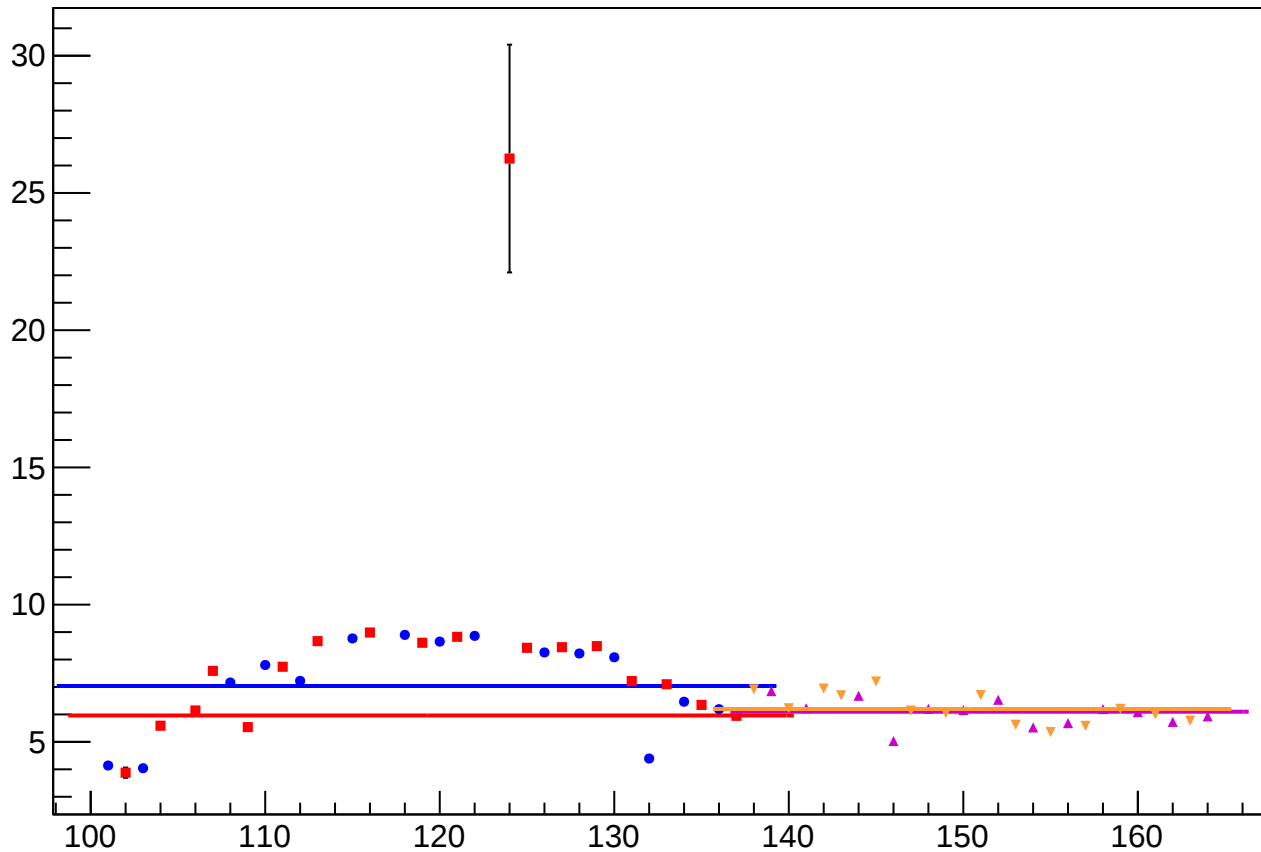
Left In:  $0.393 \pm 0.001$   $\chi^2/\text{NDF}$ : 6390.9/12

+ sign  $0.376 \pm 0.001$   $\chi^2/\text{NDF}$ : 13539.4/28

All:  $0.385 \pm 0.000$   $\chi^2/\text{NDF}$ : 23492.4/59

- sign  $0.394 \pm 0.001$   $\chi^2/\text{NDF}$ : 9367.1/30

# dit\_sam7\_4aY\_slope vs Slug



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}$ : 69905.1/14

Left Out:  $6.198 \pm 0.002$   $\chi^2/\text{NDF}$ : 26960.2/13

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}$ : 168372.8/17

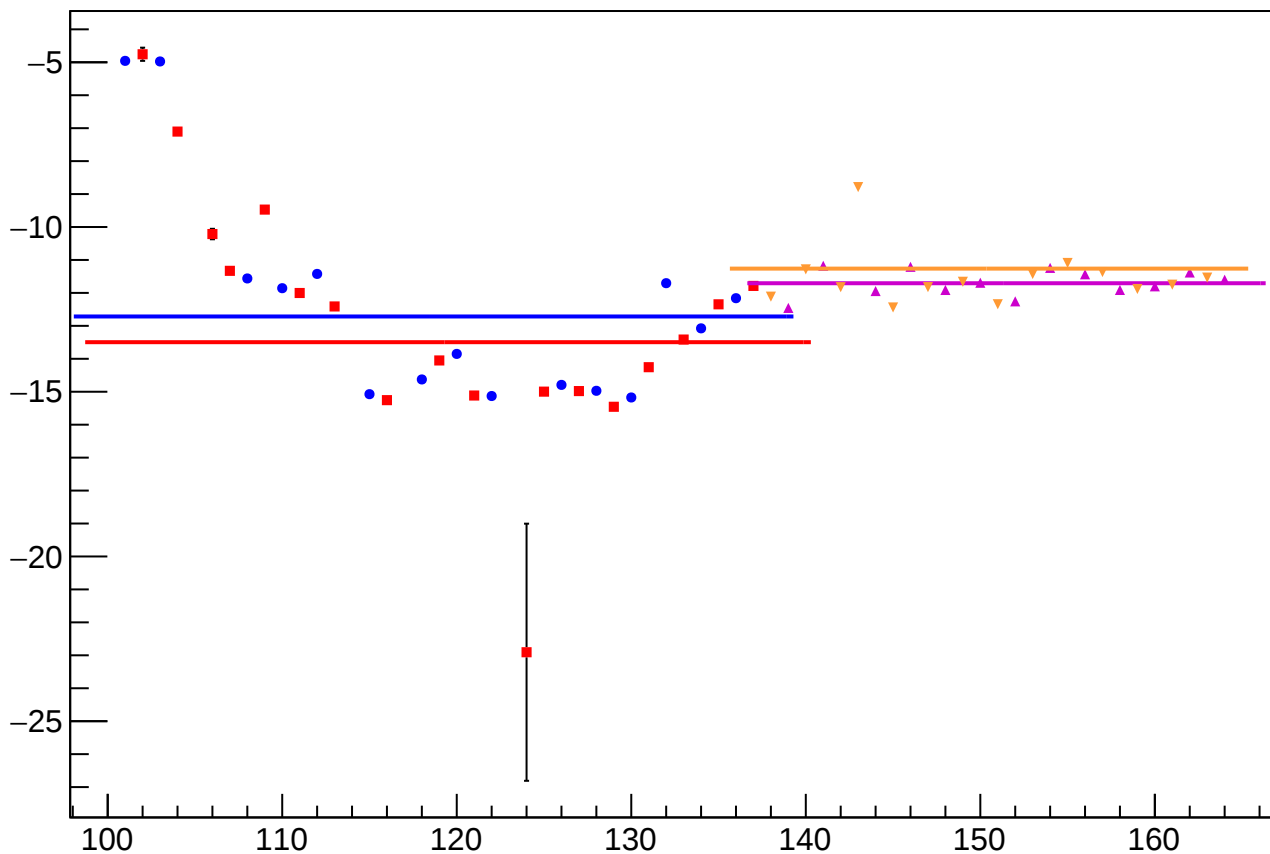
Left In:  $6.099 \pm 0.002$   $\chi^2/\text{NDF}$ : 28793.3/12

+ sign  $6.329 \pm 0.002$   $\chi^2/\text{NDF}$ : 125868.6/28

All:  $5.986 \pm 0.000$   $\chi^2/\text{NDF}$ : 367741.6/59

- sign  $5.969 \pm 0.000$   $\chi^2/\text{NDF}$ : 203347.9/30

# dit\_sam7\_4eY\_slope vs Slug



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}$ : 85219.4/14

Left Out:  $-11.263 \pm 0.003$   $\chi^2/\text{NDF}$ : 196848.5/13

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}$ : 55753.8/17

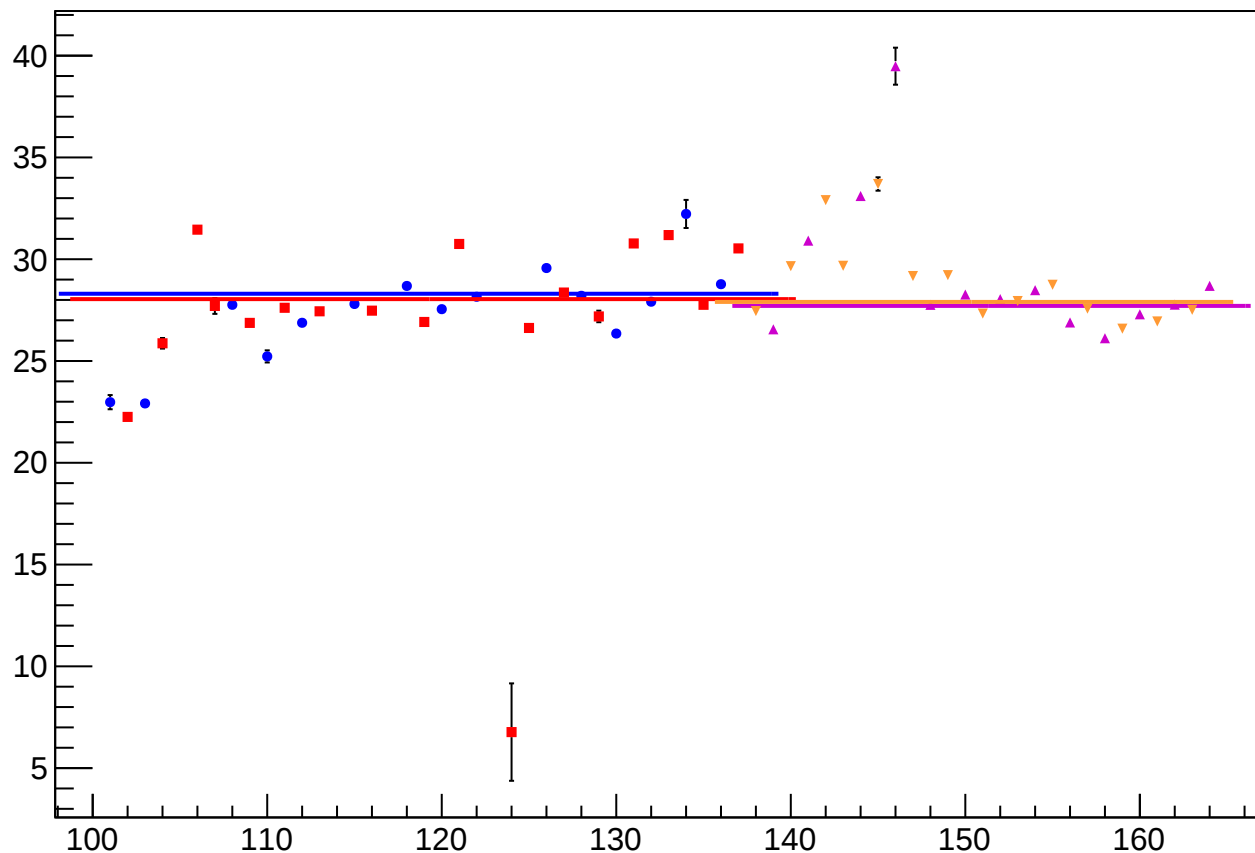
Left In:  $-11.707 \pm 0.002$   $\chi^2/\text{NDF}$ : 13054.6/12

+ sign  $-11.459 \pm 0.002$   $\chi^2/\text{NDF}$ : 326924.9/28

All:  $-11.727 \pm 0.002$   $\chi^2/\text{NDF}$ : 501523.8/59

- sign  $-11.960 \pm 0.002$   $\chi^2/\text{NDF}$ : 150205.0/30

# dit\_sam8\_4aX\_slope vs Slug



Right In: 28.304 $\pm$ 0.023  $\chi^2$ /NDF: 3400.0/14

Left Out: 27.903 $\pm$ 0.021  $\chi^2$ /NDF: 3551.5/13

Right Out: 28.040 $\pm$ 0.030  $\chi^2$ /NDF: 2561.5/17

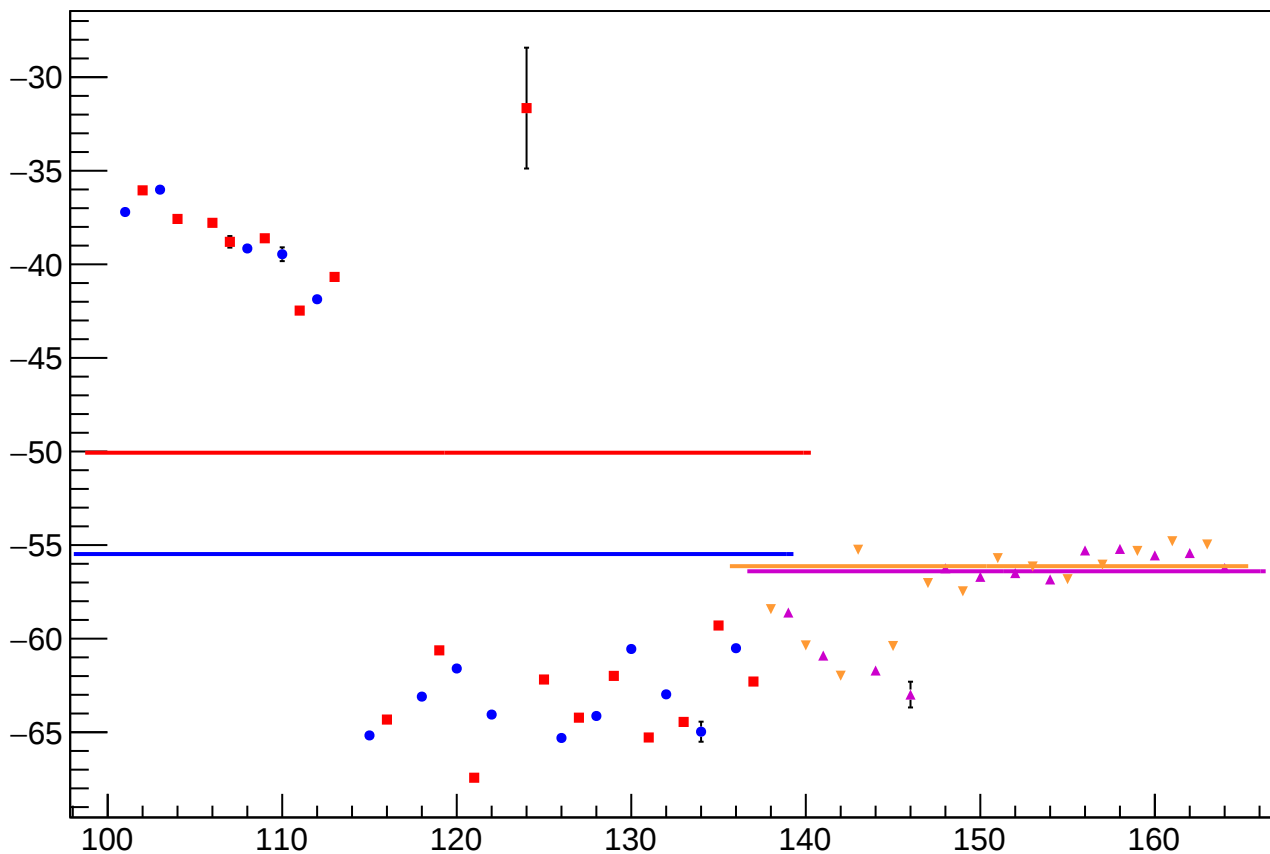
Left In: 27.708 $\pm$ 0.017  $\chi^2$ /NDF: 4635.4/12

+ sign 28.086 $\pm$ 0.016  $\chi^2$ /NDF: 7115.3/28

All: 27.928 $\pm$ 0.011  $\chi^2$ /NDF: 14599.3/59

- sign 27.786 $\pm$ 0.015  $\chi^2$ /NDF: 7288.6/30

# dit\_sam8\_4eX\_slope vs Slug



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}: 595140.3/14$

Left Out:  $-56.127 \pm 0.018$   $\chi^2/\text{NDF}: 6577.3/13$

Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}: 340098.3/17$

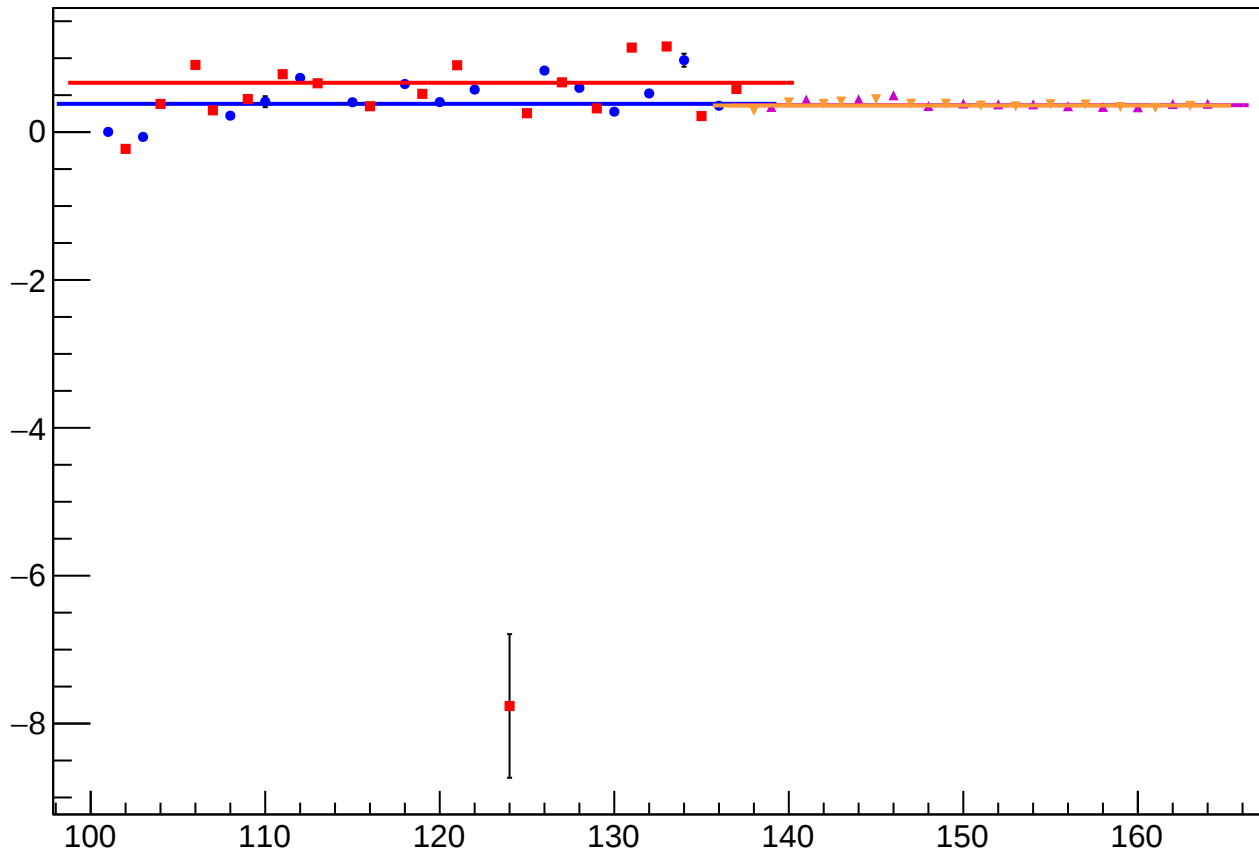
Left In:  $-56.400 \pm 0.014$   $\chi^2/\text{NDF}: 8062.3/12$

+ sign  $-55.777 \pm 0.012$   $\chi^2/\text{NDF}: 602419.3/28$

All:  $-55.215 \pm 0.009$   $\chi^2/\text{NDF}: 1009220.0/59$

- sign  $-54.657 \pm 0.012$   $\chi^2/\text{NDF}: 402554.3/30$

# dit\_sam8\_11X12X\_slope vs Slug



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}$ : 4595.8/14

Left Out:  $0.360 \pm 0.000$   $\chi^2/\text{NDF}$ : 3859.3/13

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}$ : 3704.8/17

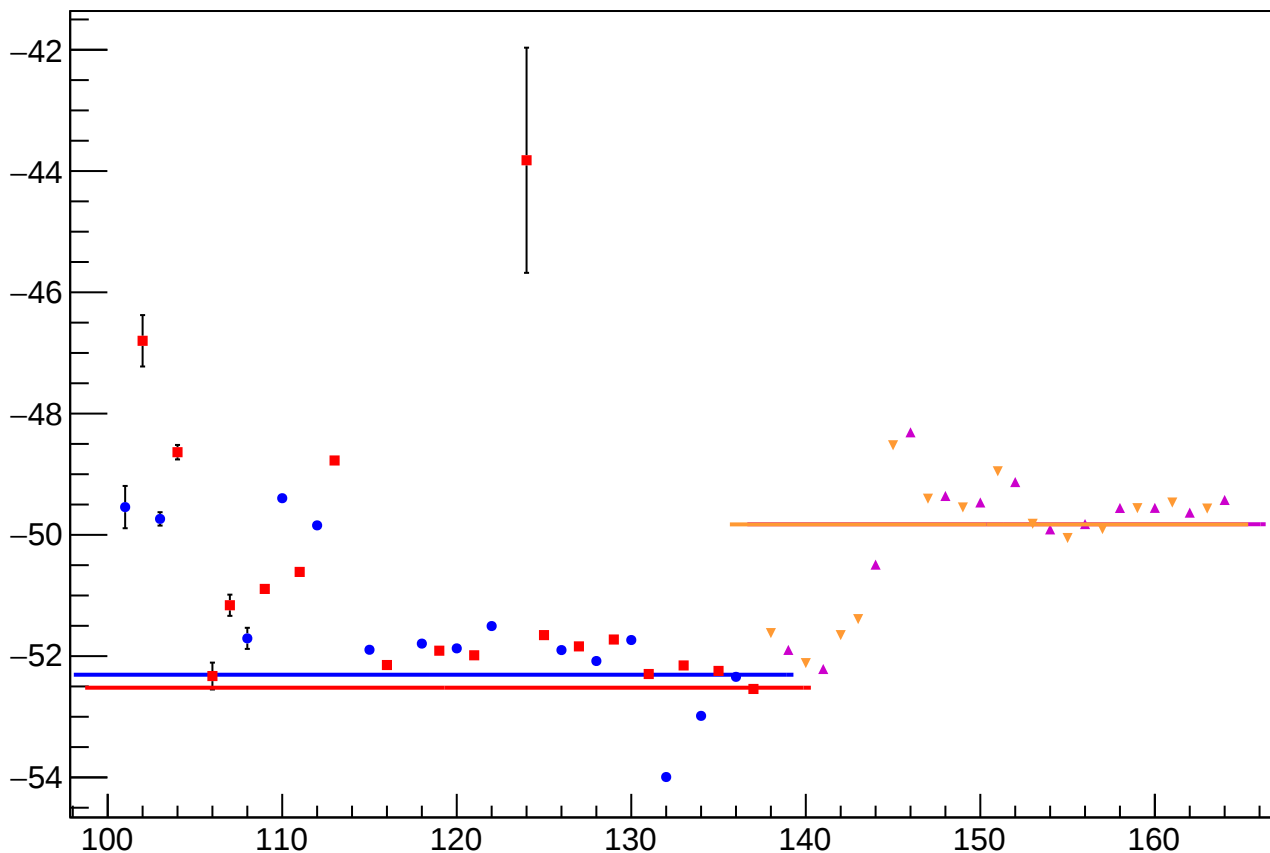
Left In:  $0.364 \pm 0.000$   $\chi^2/\text{NDF}$ : 4986.0/12

+ sign  $0.362 \pm 0.000$   $\chi^2/\text{NDF}$ : 8631.2/28

All:  $0.364 \pm 0.000$   $\chi^2/\text{NDF}$ : 21700.1/59

- sign  $0.366 \pm 0.000$   $\chi^2/\text{NDF}$ : 12999.2/30

# dit\_sam8\_4aY\_slope vs Slug



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}$ : 25427.4/14

Left Out:  $-49.827 \pm 0.002$   $\chi^2/\text{NDF}$ : 167658.1/13

Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}$ : 14961.7/17

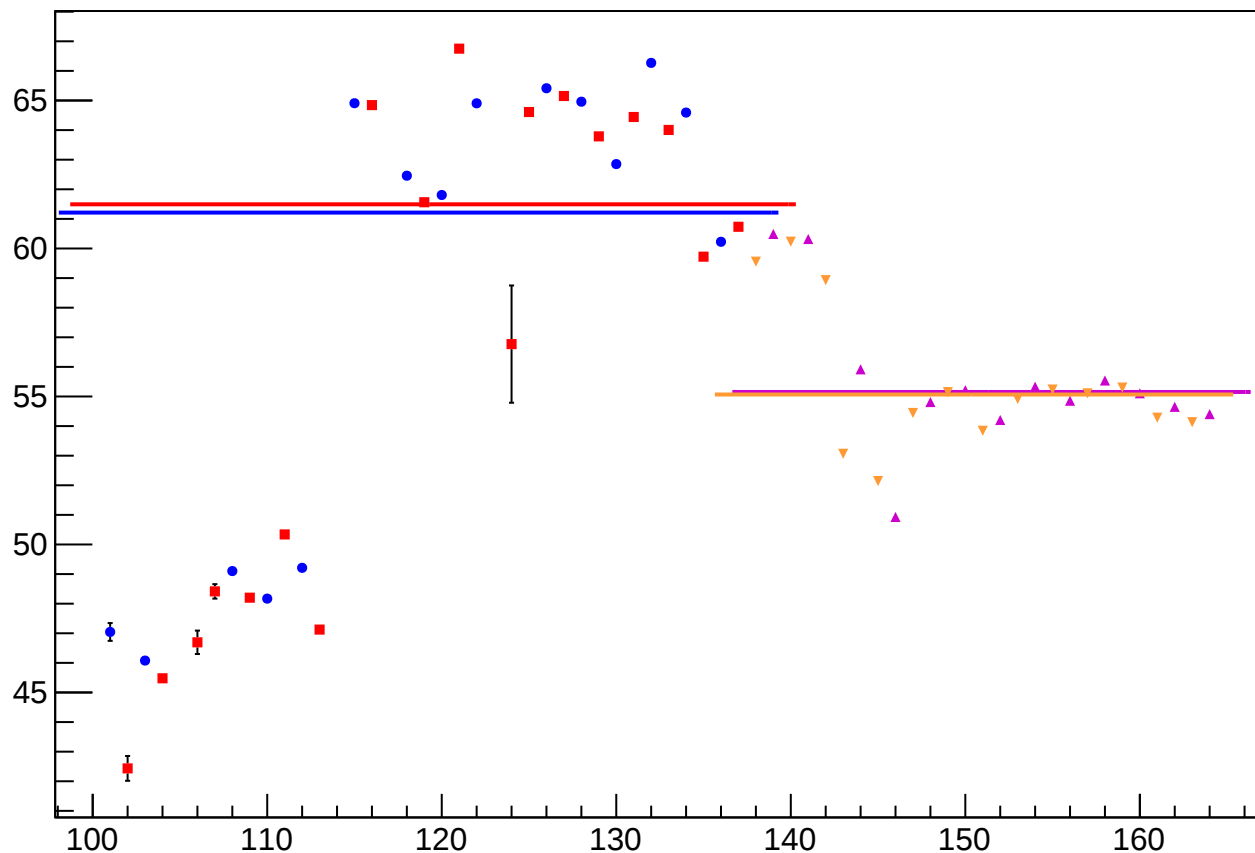
Left In:  $-49.825 \pm 0.002$   $\chi^2/\text{NDF}$ : 233666.8/12

+ sign  $-50.228 \pm 0.002$   $\chi^2/\text{NDF}$ : 535257.0/28

All:  $-51.293 \pm 0.001$   $\chi^2/\text{NDF}$ : 3326972.0/59

- sign  $-51.654 \pm 0.001$   $\chi^2/\text{NDF}$ : 2167900.8/30

# dit\_sam8\_4eY\_slope vs Slug



Right In: 61.213 $\pm$ 0.010     $\chi^2$ /NDF: 156624.5/14

Left Out: 55.067 $\pm$ 0.004     $\chi^2$ /NDF: 203600.0/13

Right Out: 61.493 $\pm$ 0.007     $\chi^2$ /NDF: 243479.8/17

Left In: 55.152 $\pm$ 0.003     $\chi^2$ /NDF: 62519.3/12

+ sign 55.769 $\pm$ 0.003     $\chi^2$ /NDF: 699681.9/28

All: 56.046 $\pm$ 0.002     $\chi^2$ /NDF: 1755919.5/59

- sign 56.236 $\pm$ 0.003     $\chi^2$ /NDF: 1044771.8/30

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

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

Right Out: 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\_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

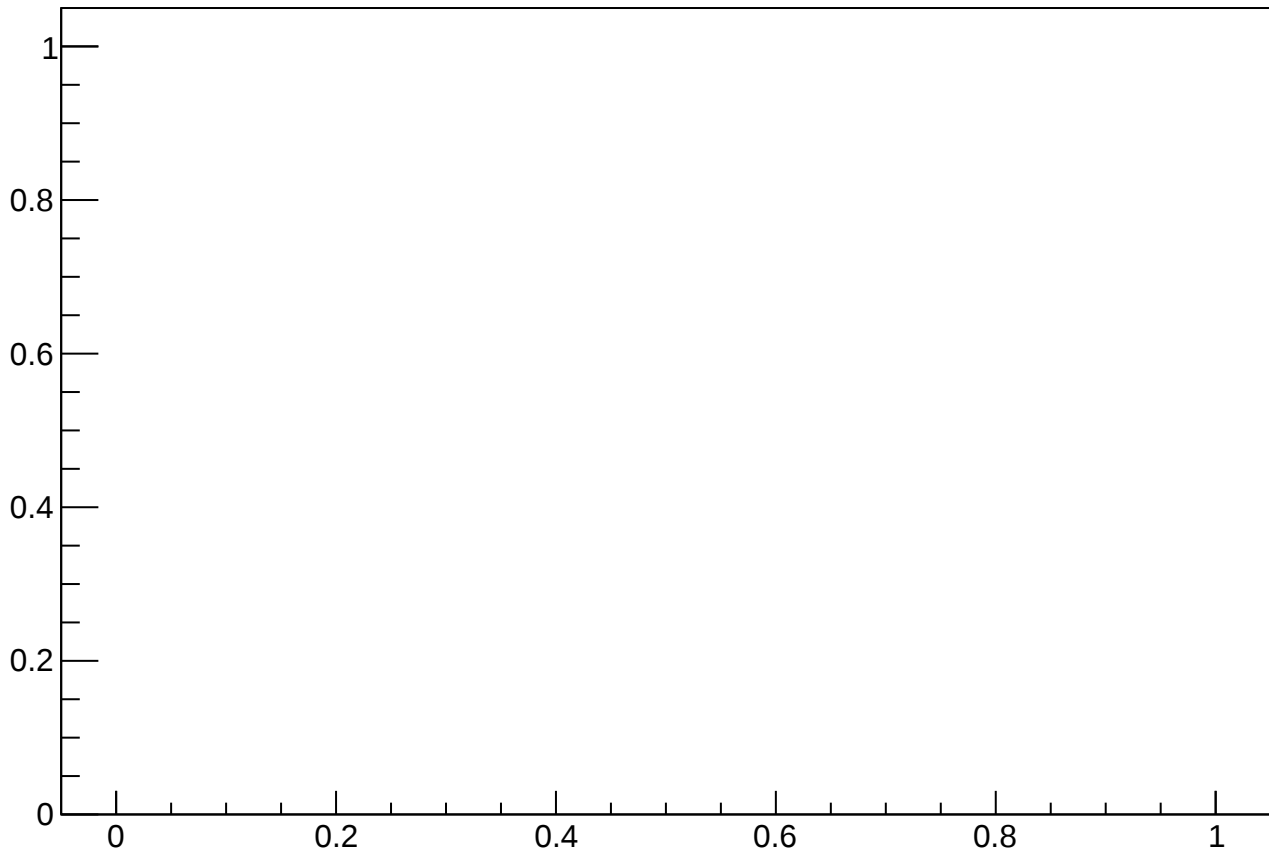
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

Right Out: 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\_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\_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

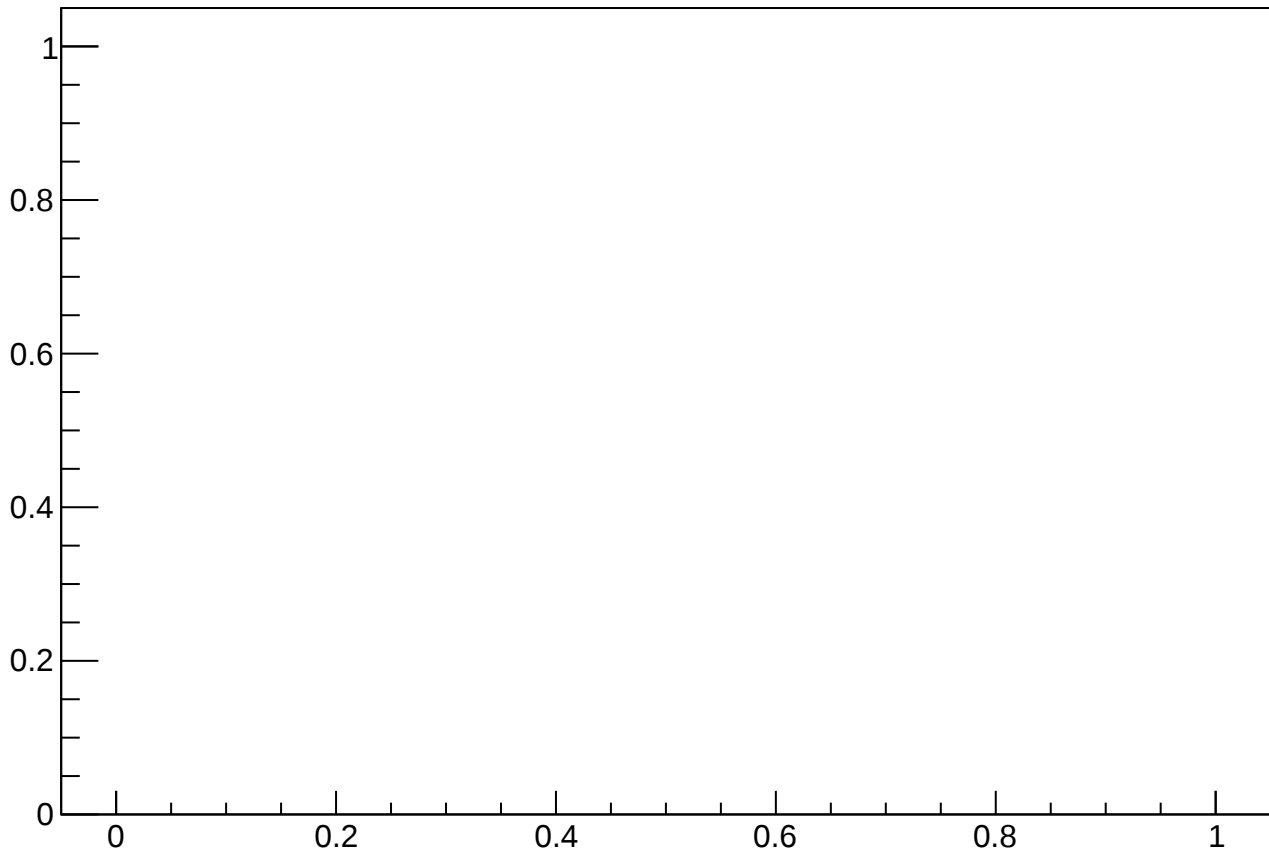
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

Right Out: 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\_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\_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

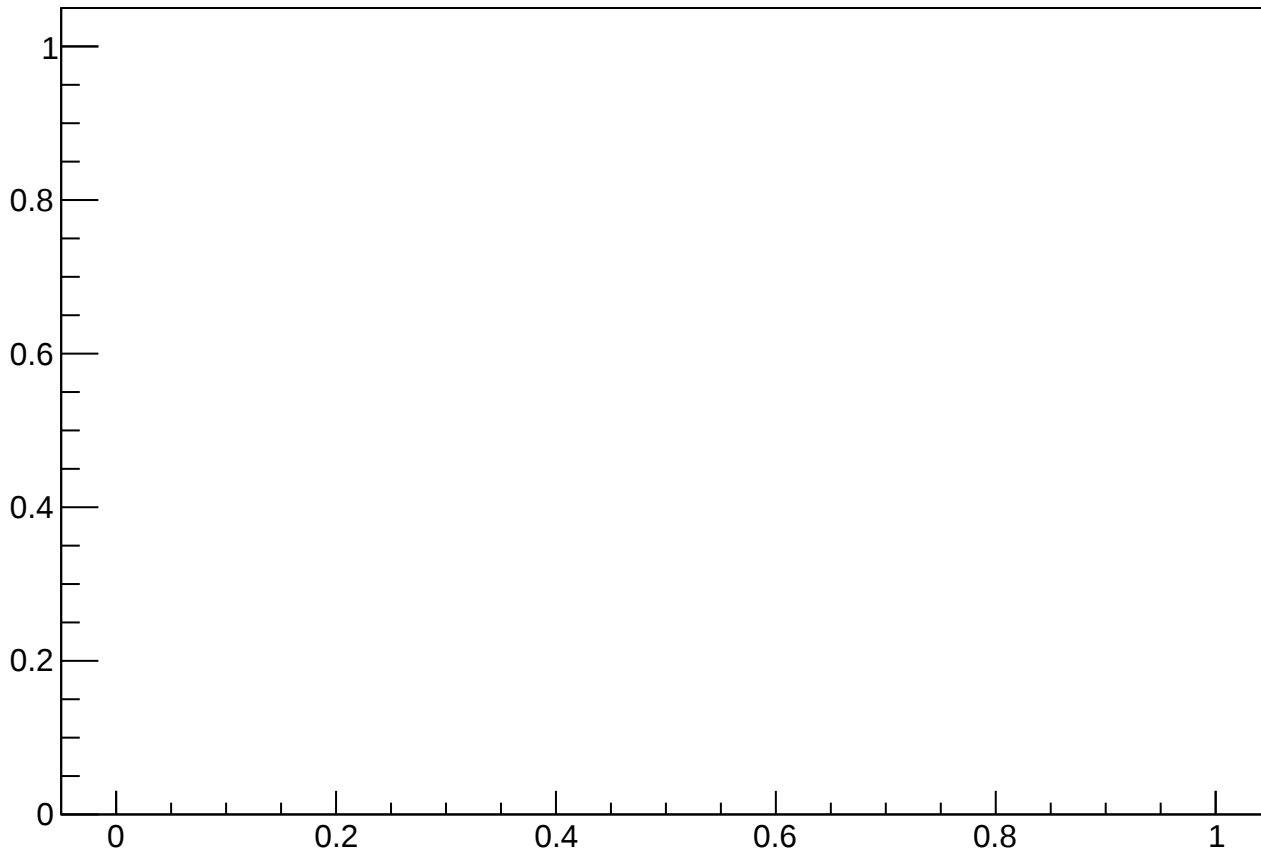
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

Right Out: 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\_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

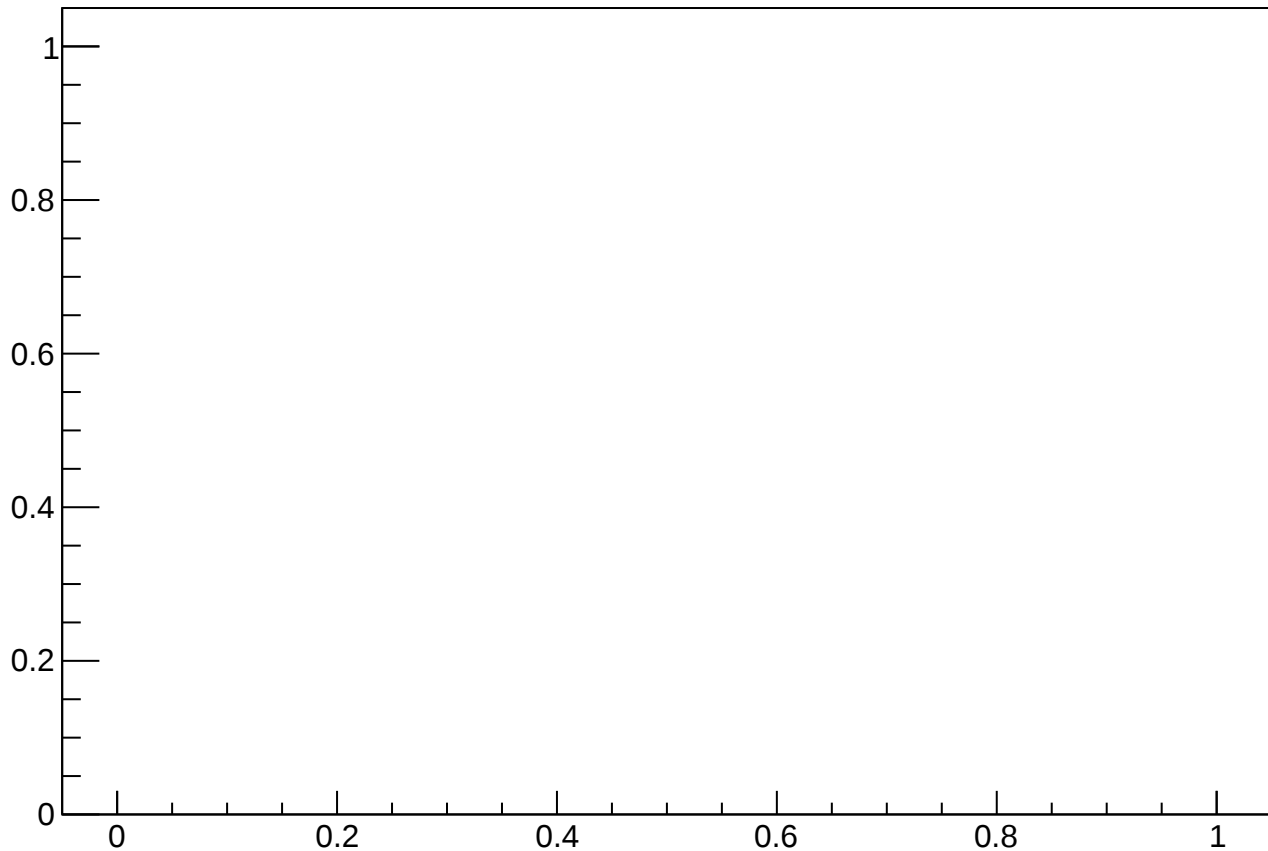
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

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

Right Out: 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\_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

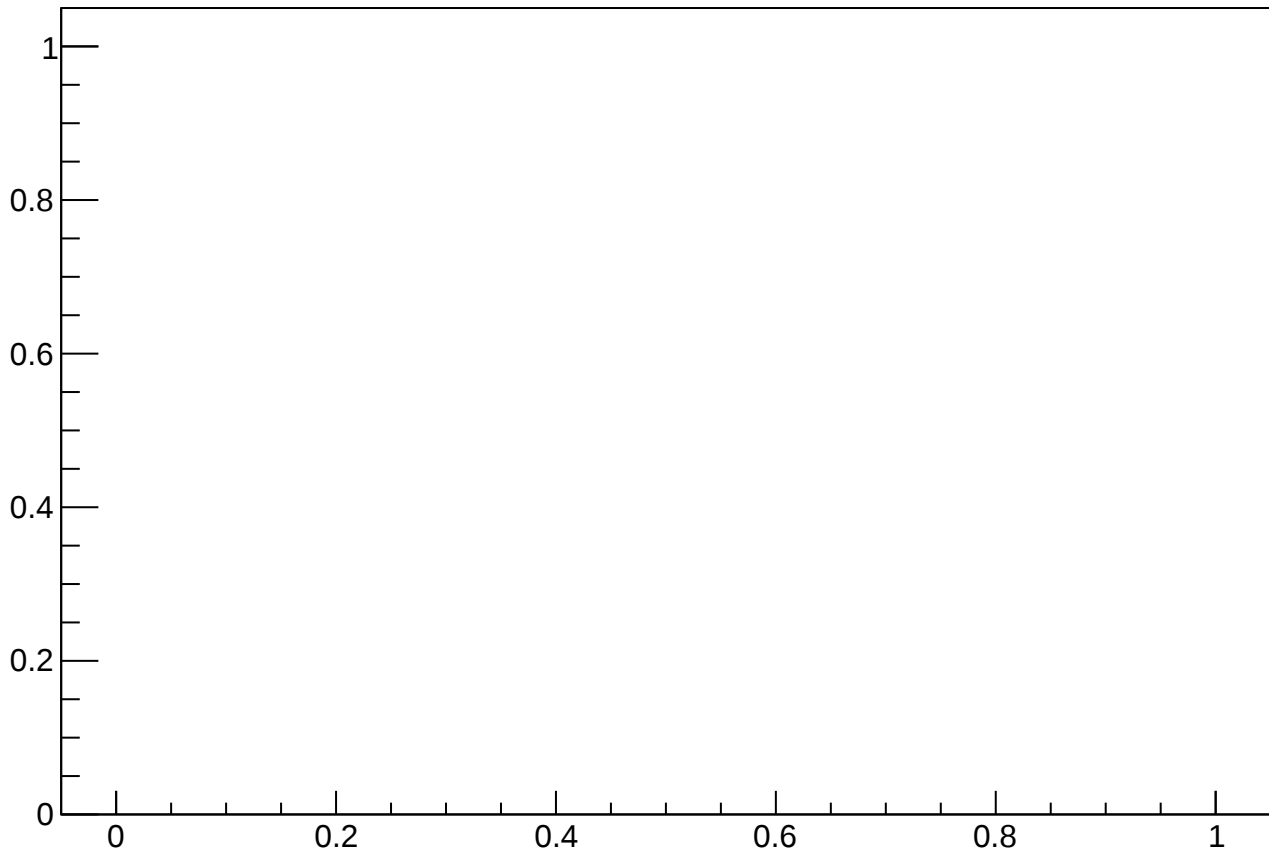
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

Right Out: 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\_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

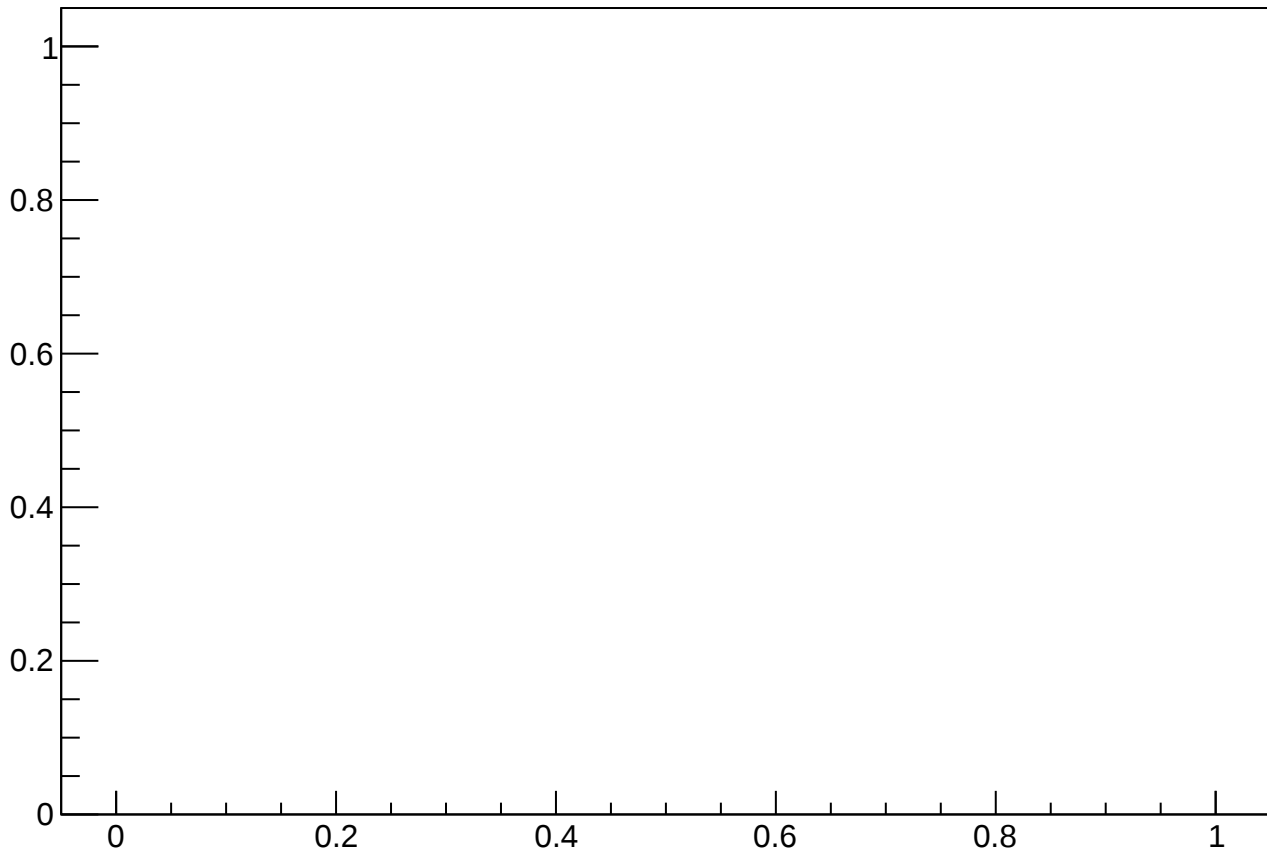
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

Right Out: 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\_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\_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\_sam2\_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\_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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

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

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

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

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

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

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

Right Out: 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\_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

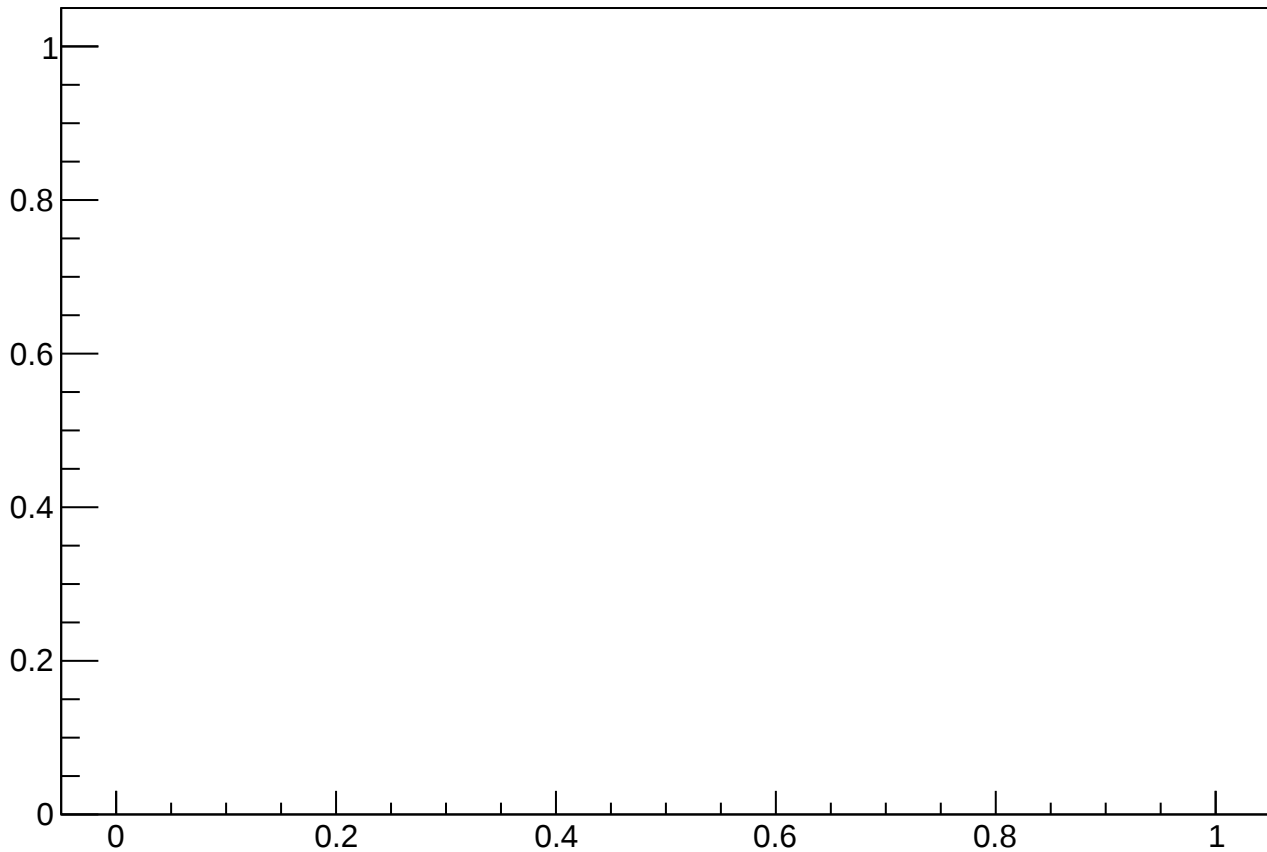
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Right Out: 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\_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

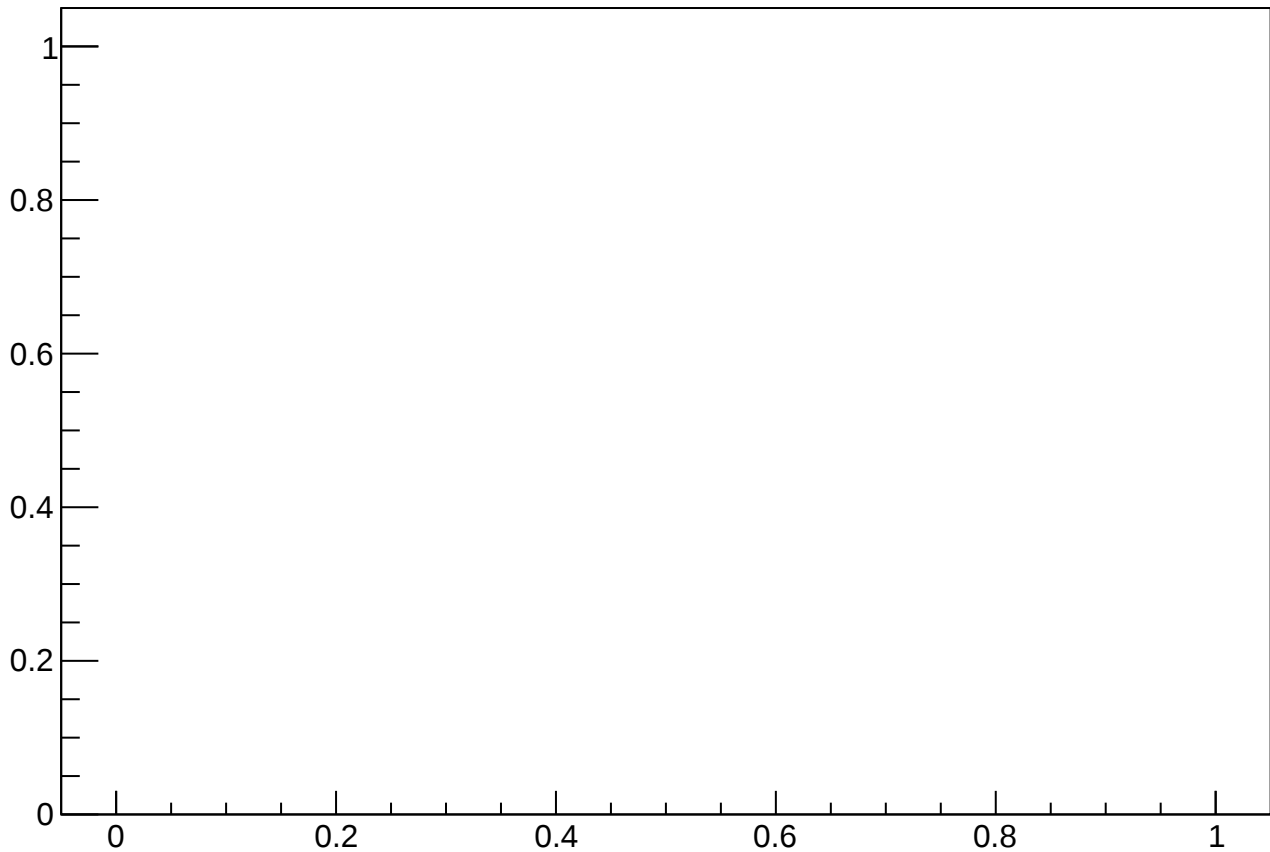
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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

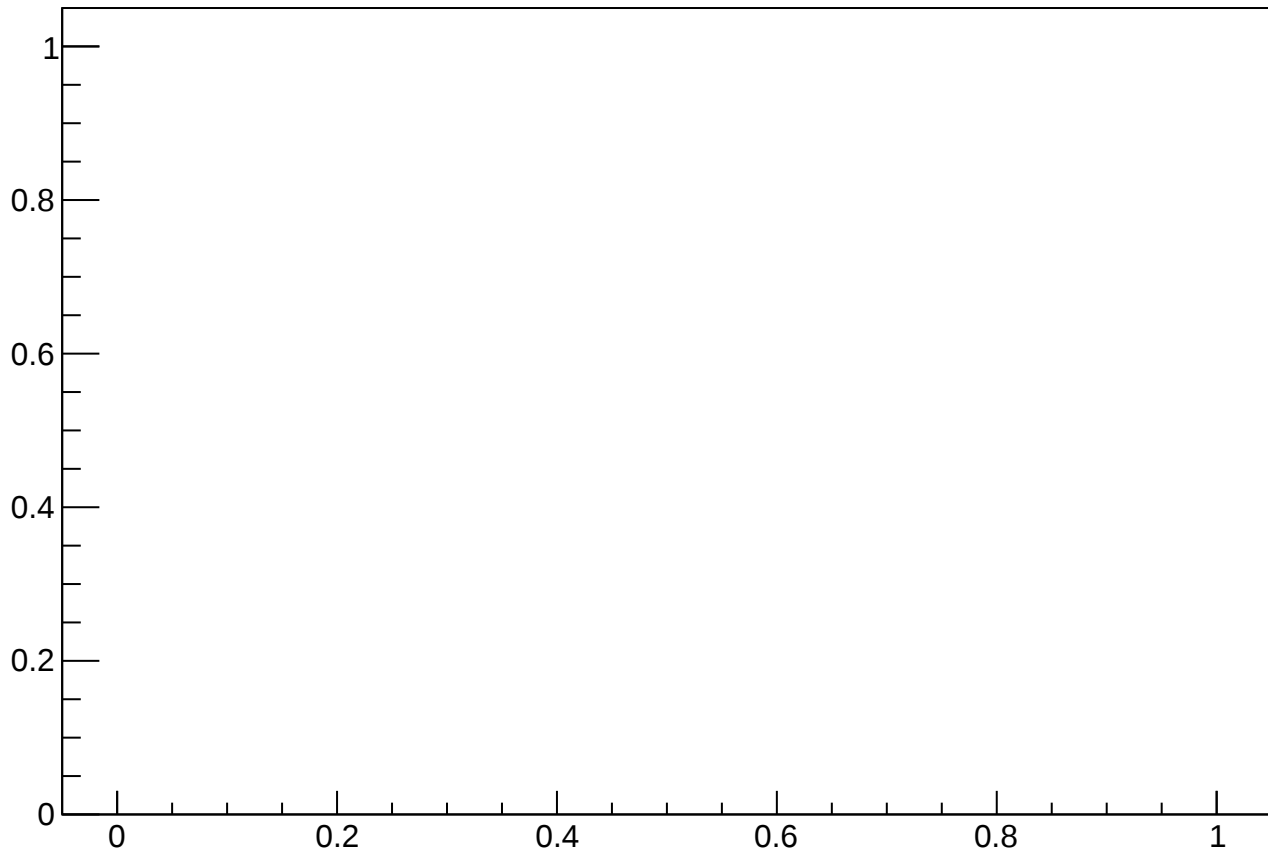
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

Right Out: 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\_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

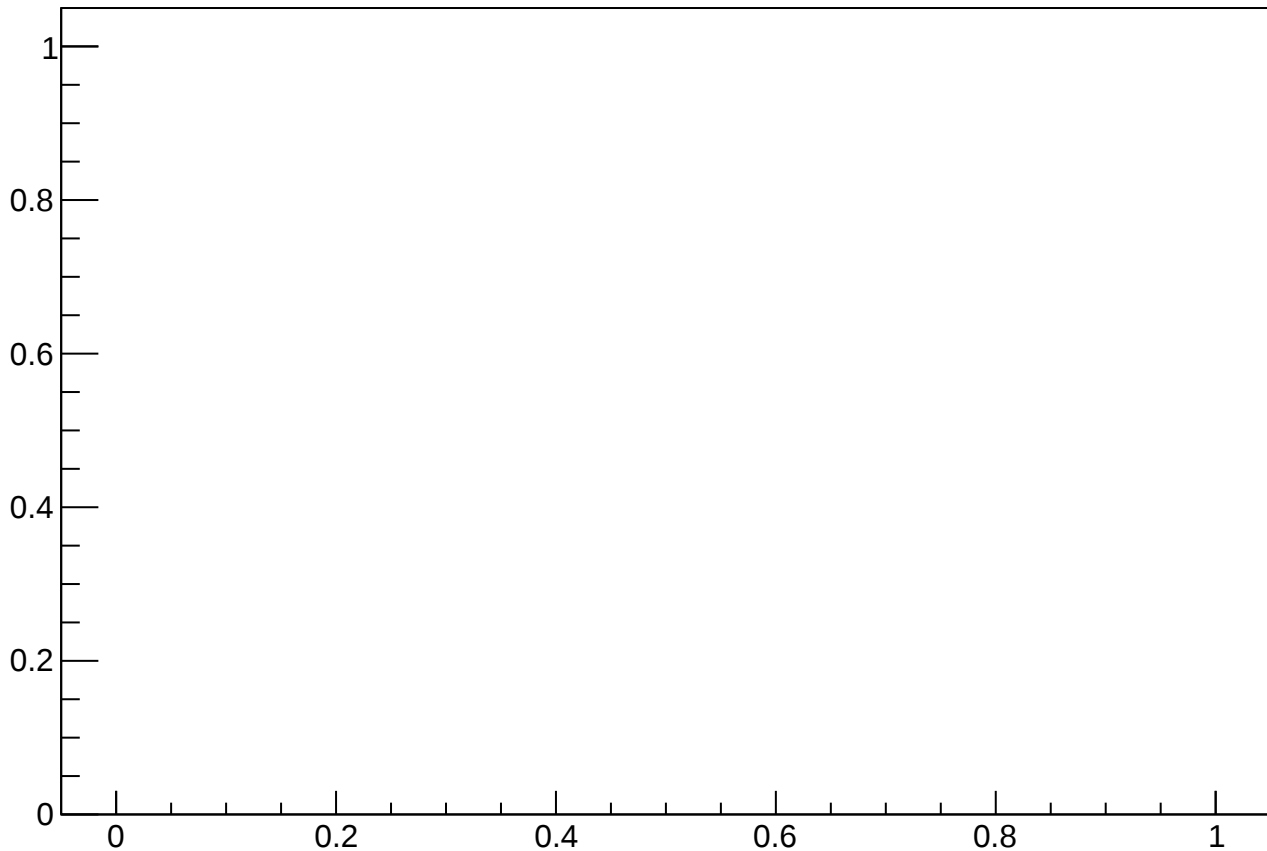
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

Right Out: 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\_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

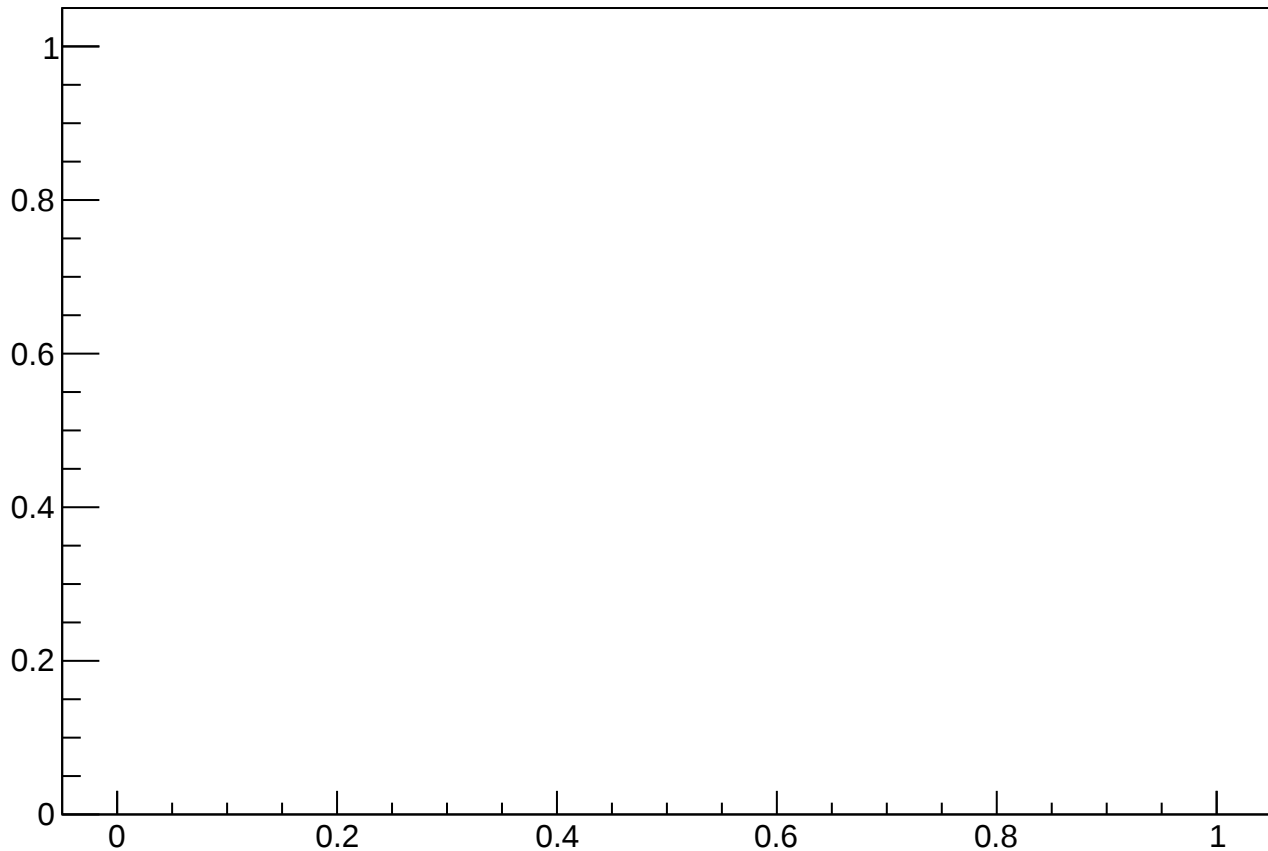
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

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

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

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

Right Out: 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\_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

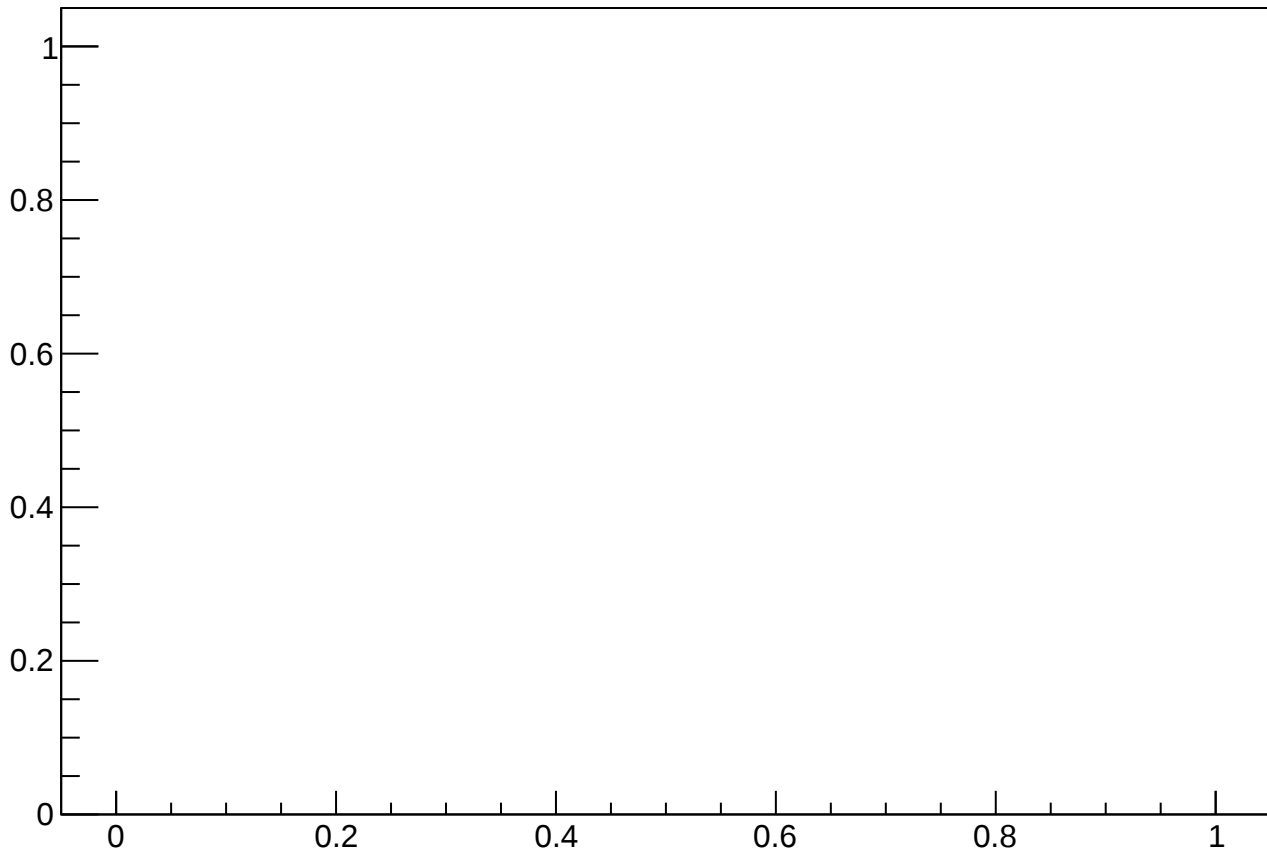
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

Right Out: 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\_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

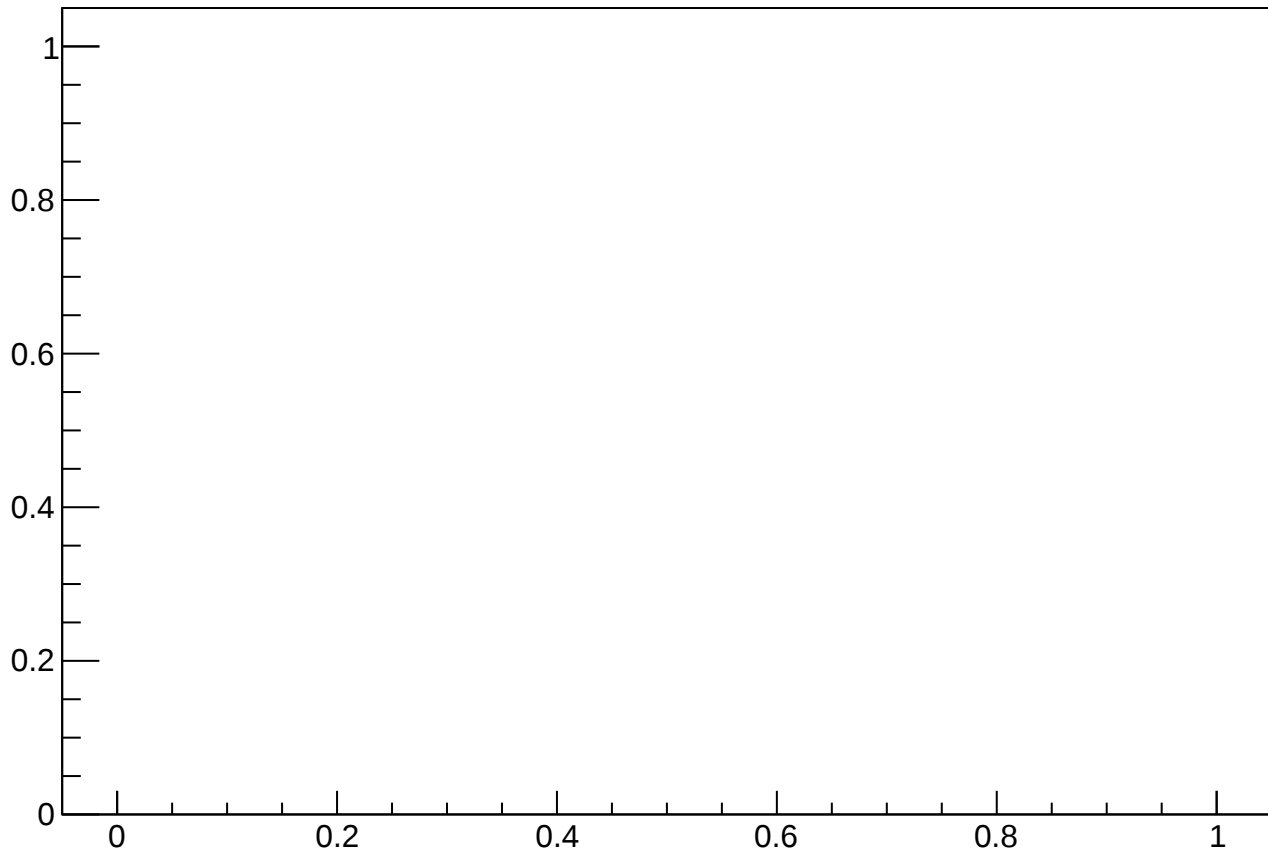
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

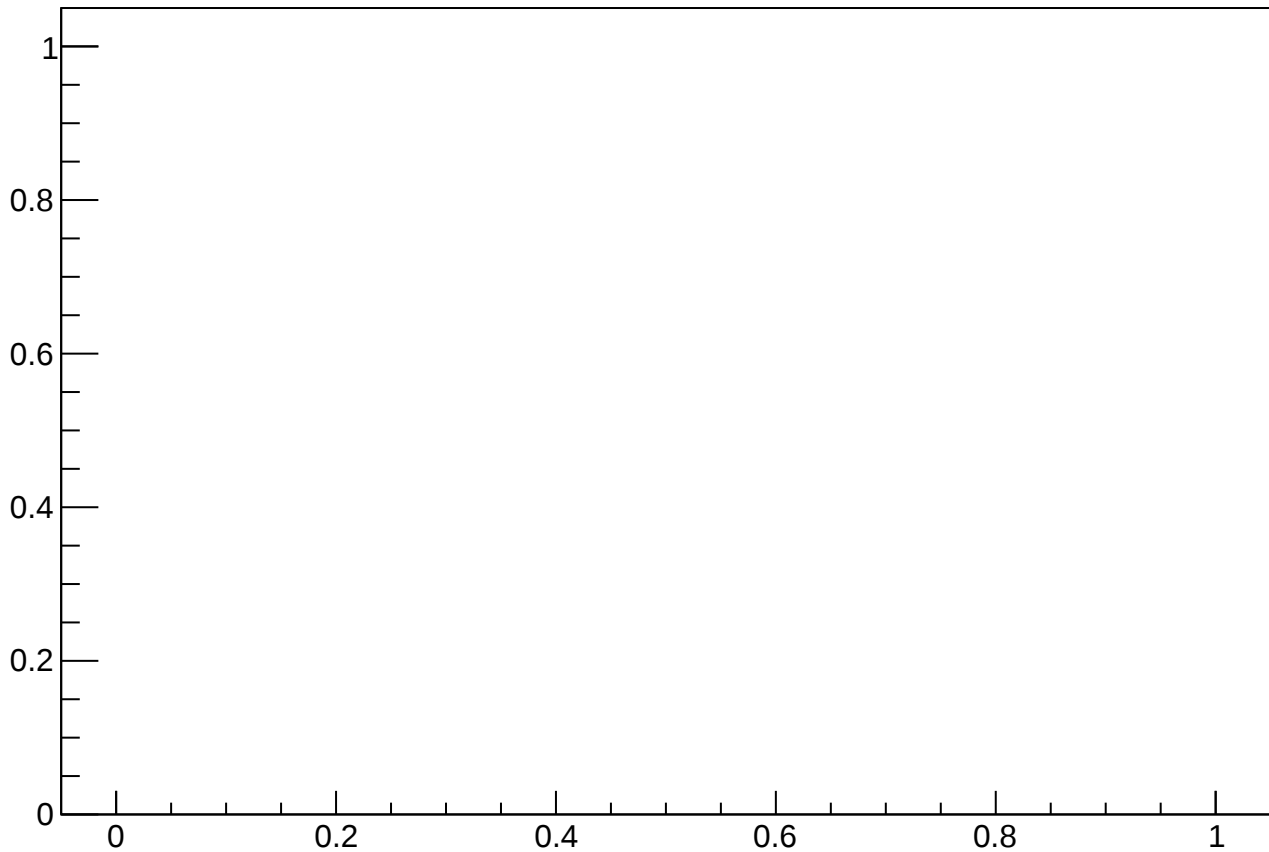
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

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

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

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

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

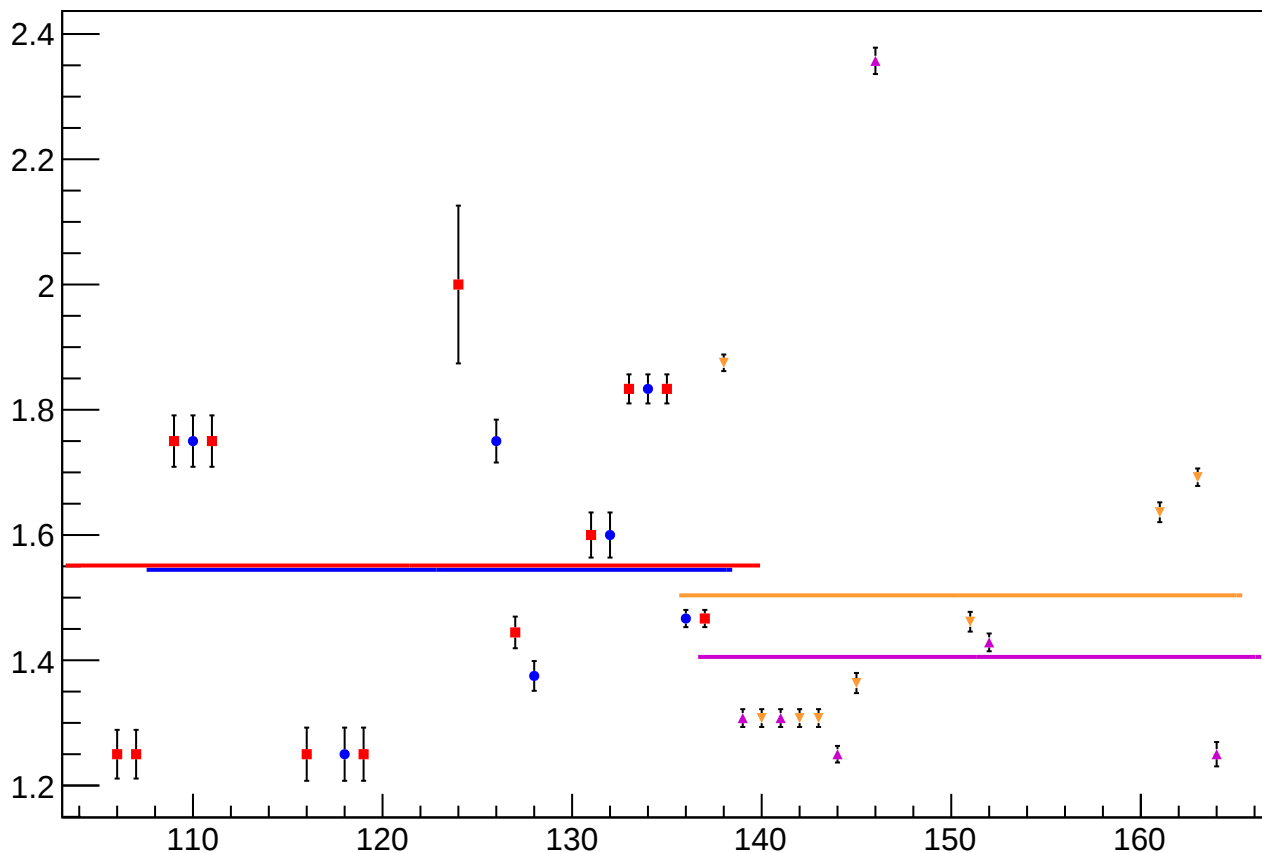
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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\_segment\_slope vs Slug



Right In: 1.544 $\pm$ 0.009  $\chi^2$ /NDF: 349.7/6

Left Out: 1.504 $\pm$ 0.005  $\chi^2$ /NDF:1691.6/7

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

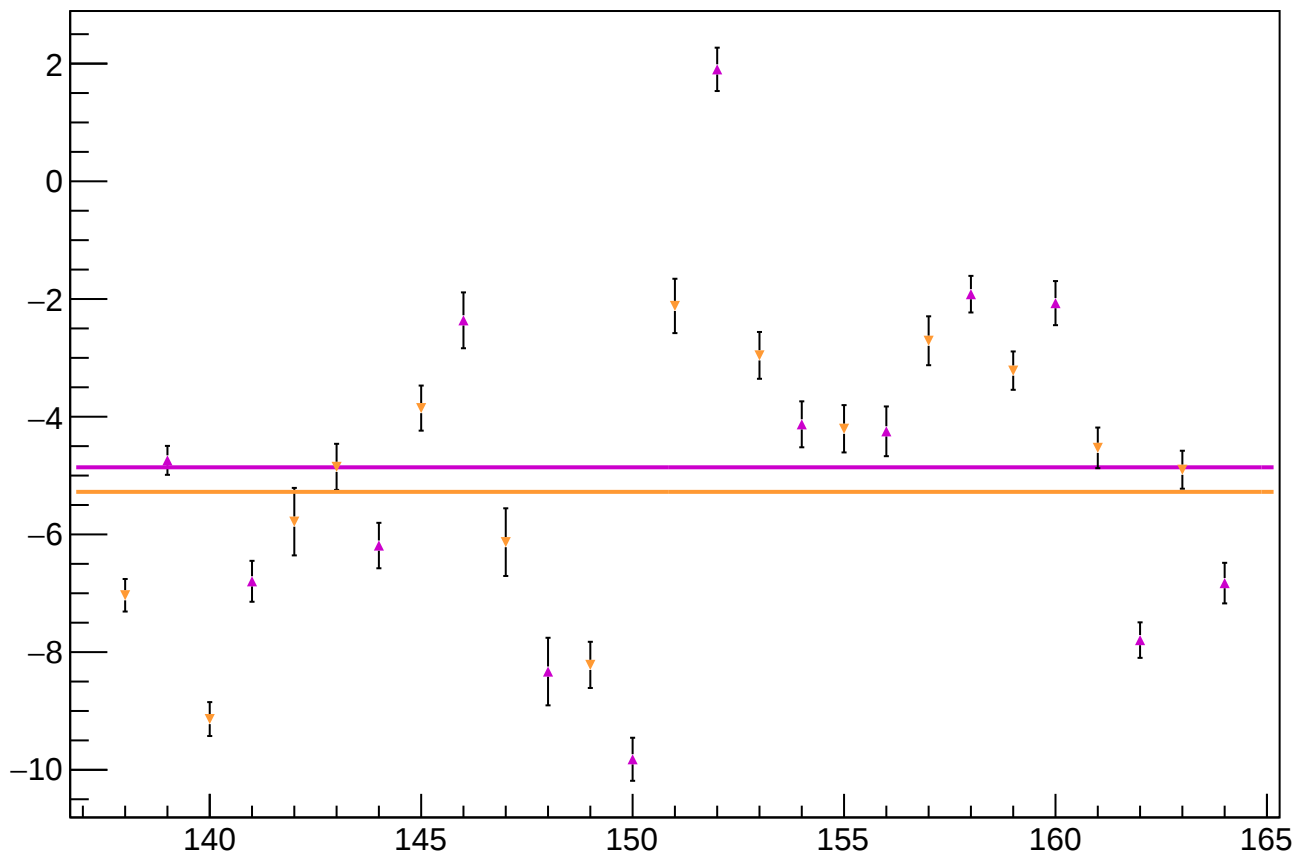
Left In: 1.405 $\pm$ 0.006  $\chi^2$ /NDF:2341.1/5

+ sign 1.513 $\pm$ 0.005  $\chi^2$ /NDF: 2056.1/14

All: 1.489 $\pm$ 0.003  $\chi^2$ /NDF: 5296.5/32

- sign 1.460 $\pm$ 0.005  $\chi^2$ /NDF: 3176.0/17

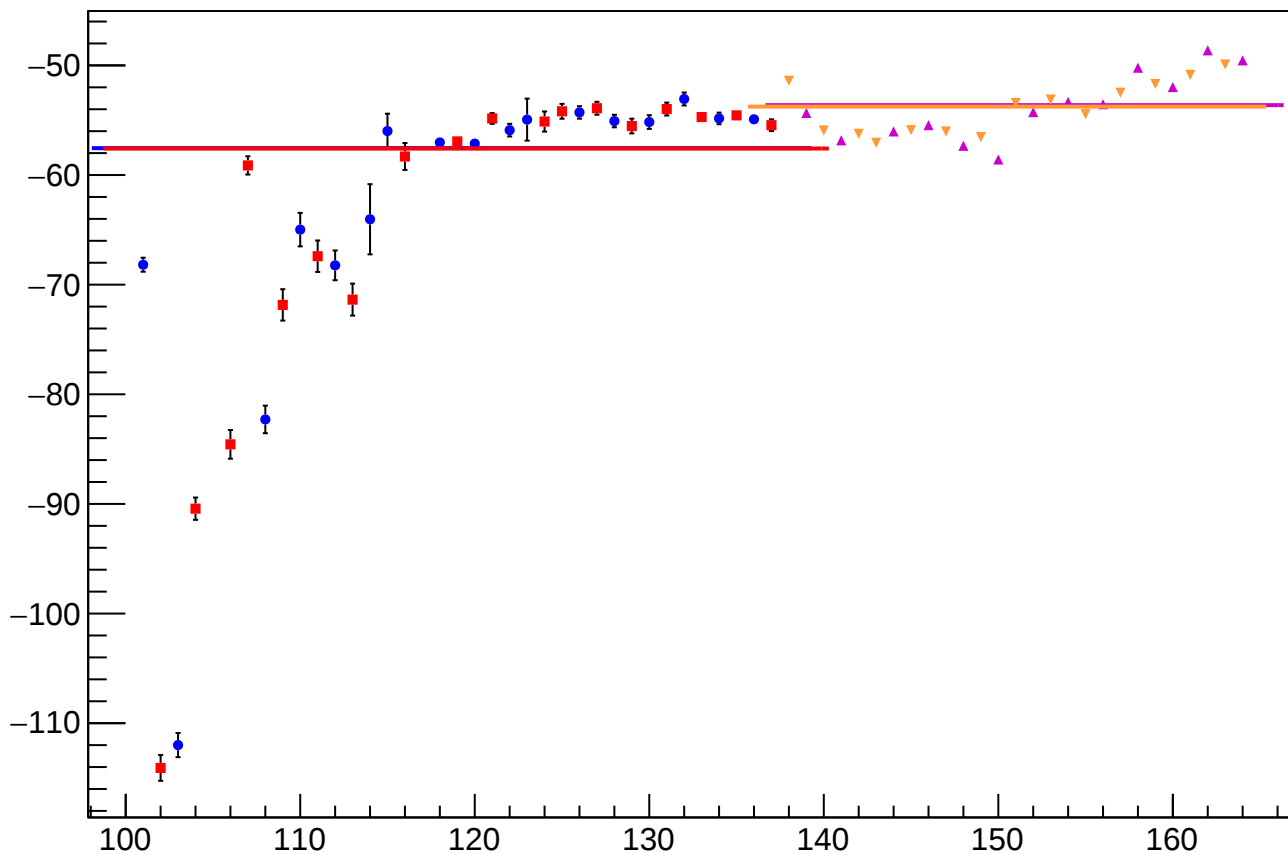
# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -5.277+/-0.099  $\chi^2/\text{NDF}$ : 466.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.860+/-0.099  $\chi^2/\text{NDF}$ : 906.2/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.067+/-0.070  $\chi^2/\text{NDF}$ : 1381.2/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In:  $-57.549 \pm 0.142$   $\chi^2/\text{NDF}$ : 3460.4/16

Left Out:  $-53.759 \pm 0.073$   $\chi^2/\text{NDF}$ : 1055.8/13

Right Out:  $-57.581 \pm 0.143$   $\chi^2/\text{NDF}$ : 4343.8/17

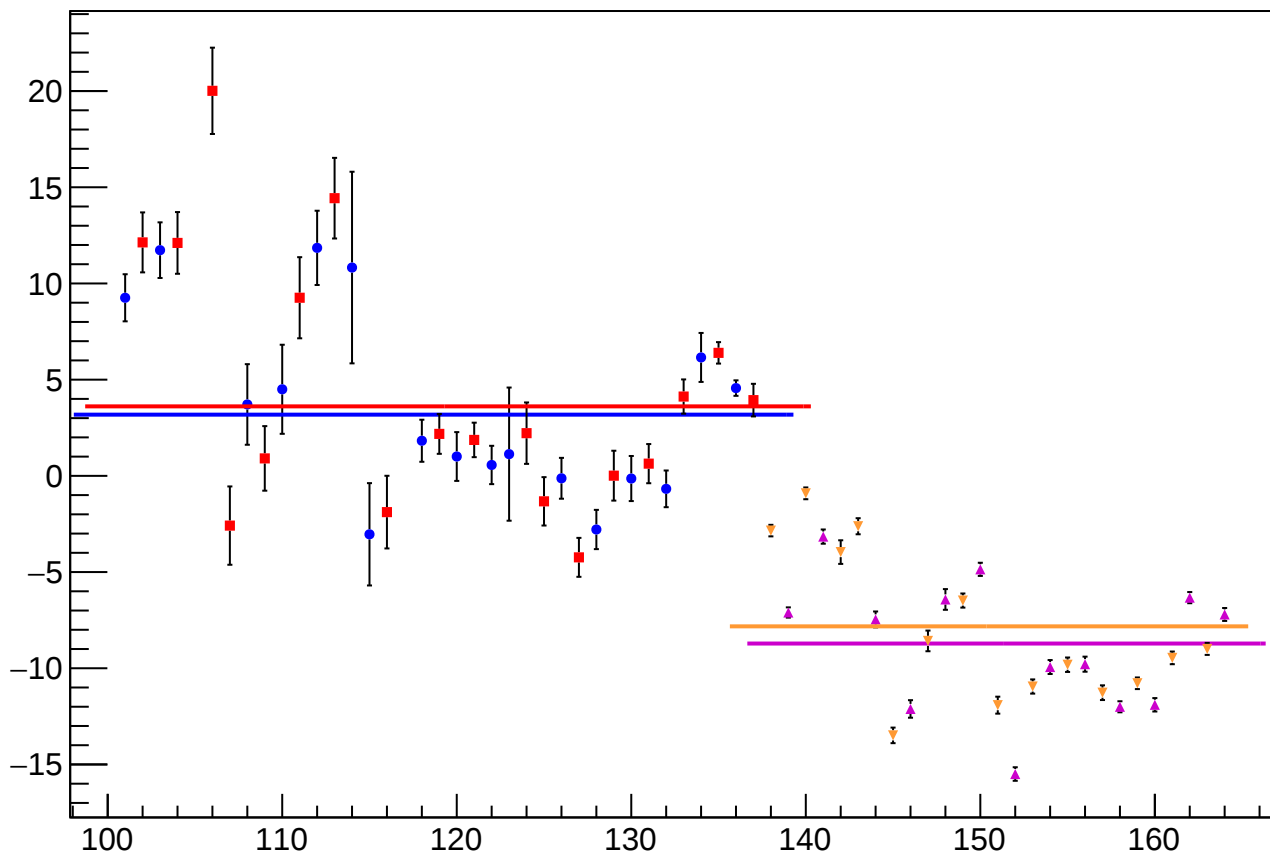
Left In:  $-53.627 \pm 0.075$   $\chi^2/\text{NDF}$ : 1761.7/12

+ sign  $-54.551 \pm 0.065$   $\chi^2/\text{NDF}$ : 5083.1/30

All:  $-54.517 \pm 0.046$   $\chi^2/\text{NDF}$ : 11789.1/61

- sign  $-54.481 \pm 0.066$   $\chi^2/\text{NDF}$ : 6705.5/30

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}$ : 185.2/16

Left Out:  $-7.822 \pm 0.098$   $\chi^2/\text{NDF}$ : 1590.7/13

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}$ : 289.2/17

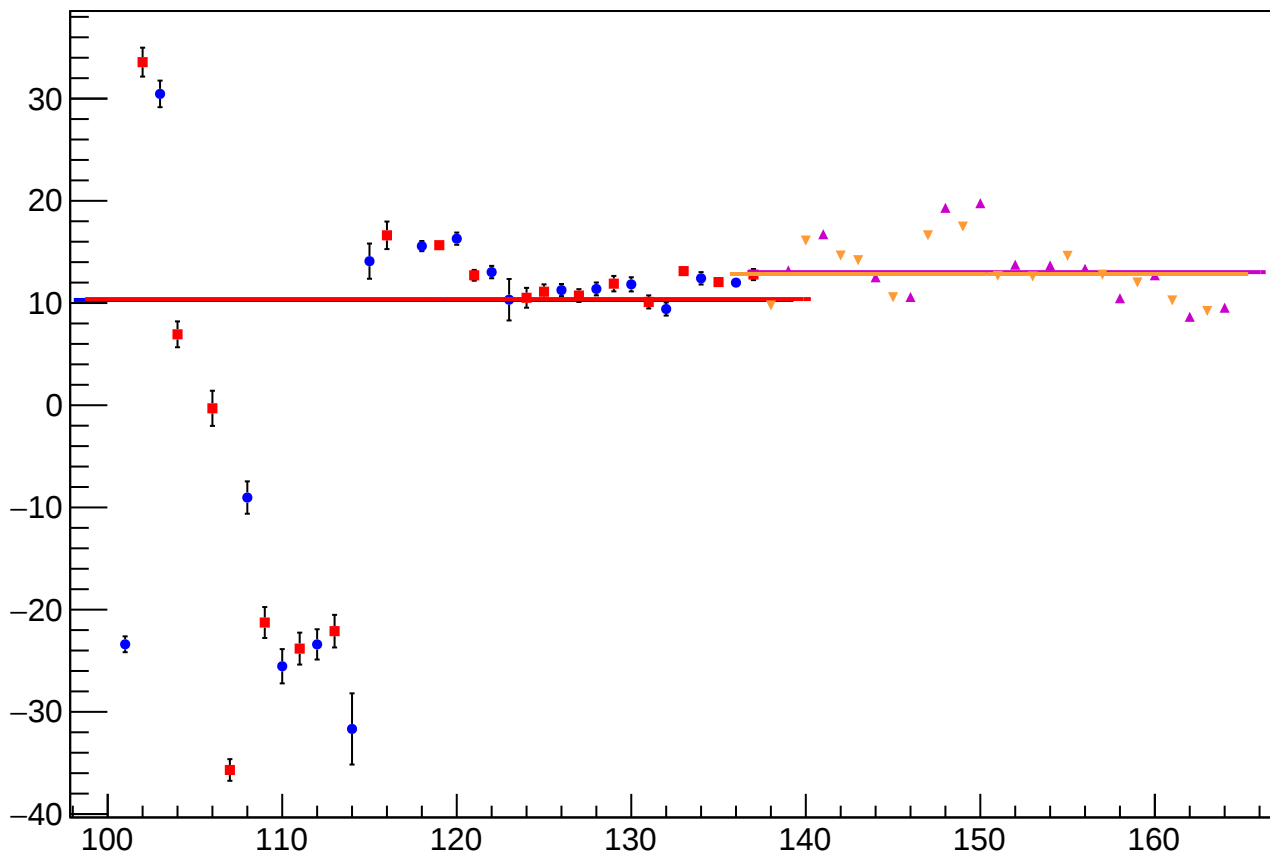
Left In:  $-8.715 \pm 0.097$   $\chi^2/\text{NDF}$ : 1164.1/12

+ sign  $-6.433 \pm 0.092$   $\chi^2/\text{NDF}$ : 3365.3/30

All:  $-6.870 \pm 0.065$   $\chi^2/\text{NDF}$ : 6738.0/61

- sign  $-7.299 \pm 0.091$   $\chi^2/\text{NDF}$ : 3327.7/30

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In:  $10.301 \pm 0.157$   $\chi^2/\text{NDF}: 3699.4/16$

Left Out:  $12.843 \pm 0.083$   $\chi^2/\text{NDF}: 943.0/13$

Right Out:  $10.388 \pm 0.160$   $\chi^2/\text{NDF}: 3786.4/17$

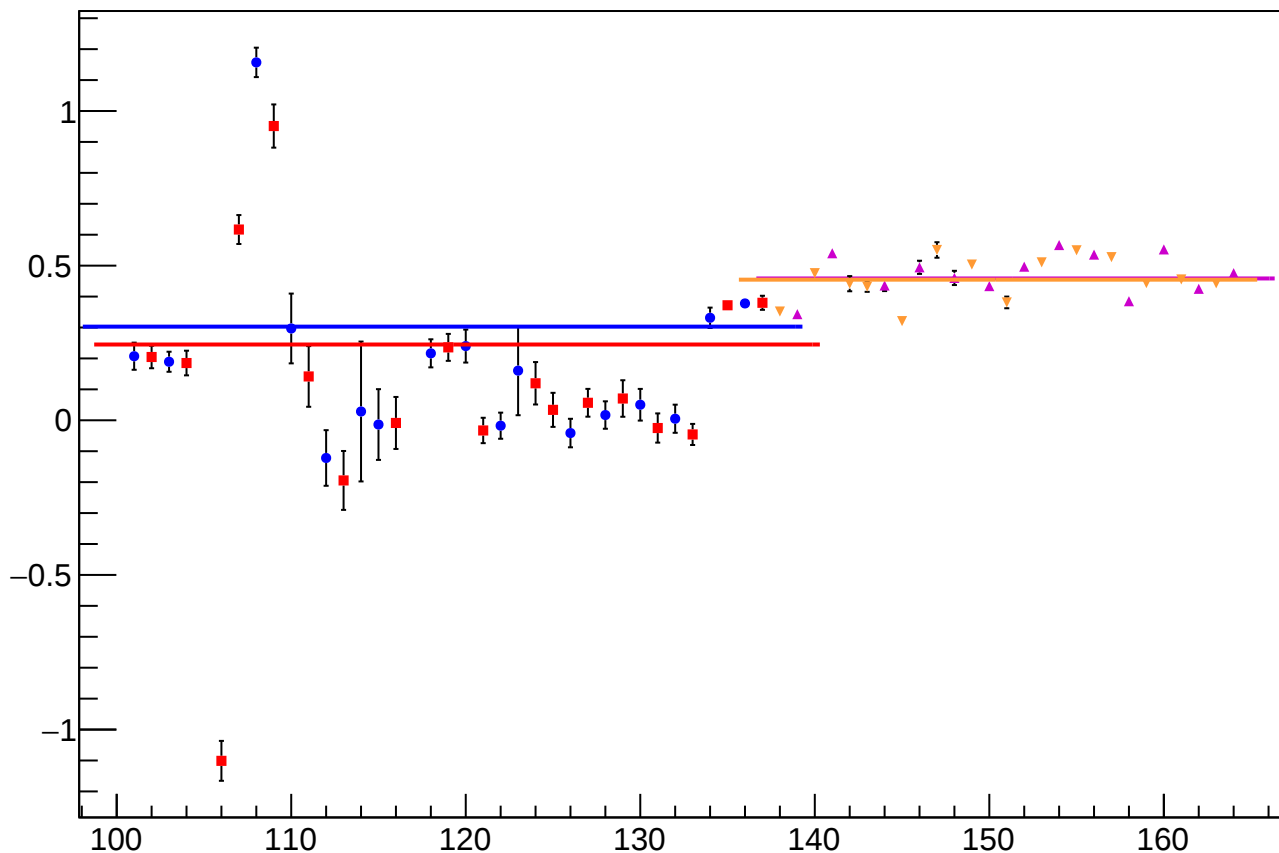
Left In:  $13.024 \pm 0.085$   $\chi^2/\text{NDF}: 1564.8/12$

+ sign  $12.283 \pm 0.074$   $\chi^2/\text{NDF}: 4846.9/30$

All:  $12.363 \pm 0.053$   $\chi^2/\text{NDF}: 10412.7/61$

- sign  $12.446 \pm 0.075$   $\chi^2/\text{NDF}: 5563.4/30$

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 647.2/16

Left Out:  $0.455 \pm 0.004$   $\chi^2/\text{NDF}$ : 300.9/13

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

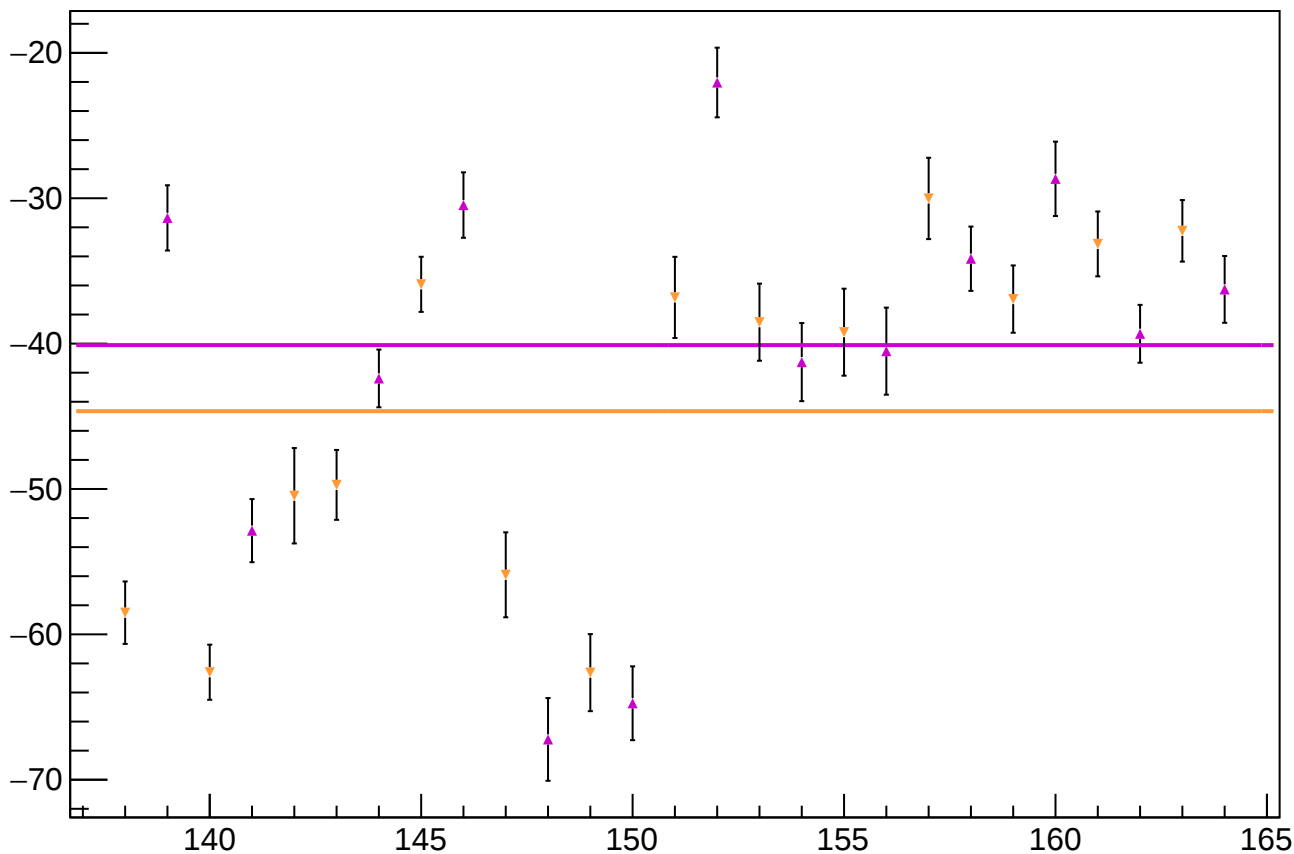
Left In:  $0.459 \pm 0.004$   $\chi^2/\text{NDF}$ : 418.8/12

+ sign  $0.428 \pm 0.003$   $\chi^2/\text{NDF}$ : 1231.3/30

All:  $0.426 \pm 0.002$   $\chi^2/\text{NDF}$ : 3134.0/61

- sign  $0.425 \pm 0.003$   $\chi^2/\text{NDF}$ : 1902.2/30

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



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

Left Out: -44.648+/-0.643  $\chi^2/\text{NDF}$ : 336.9/13

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

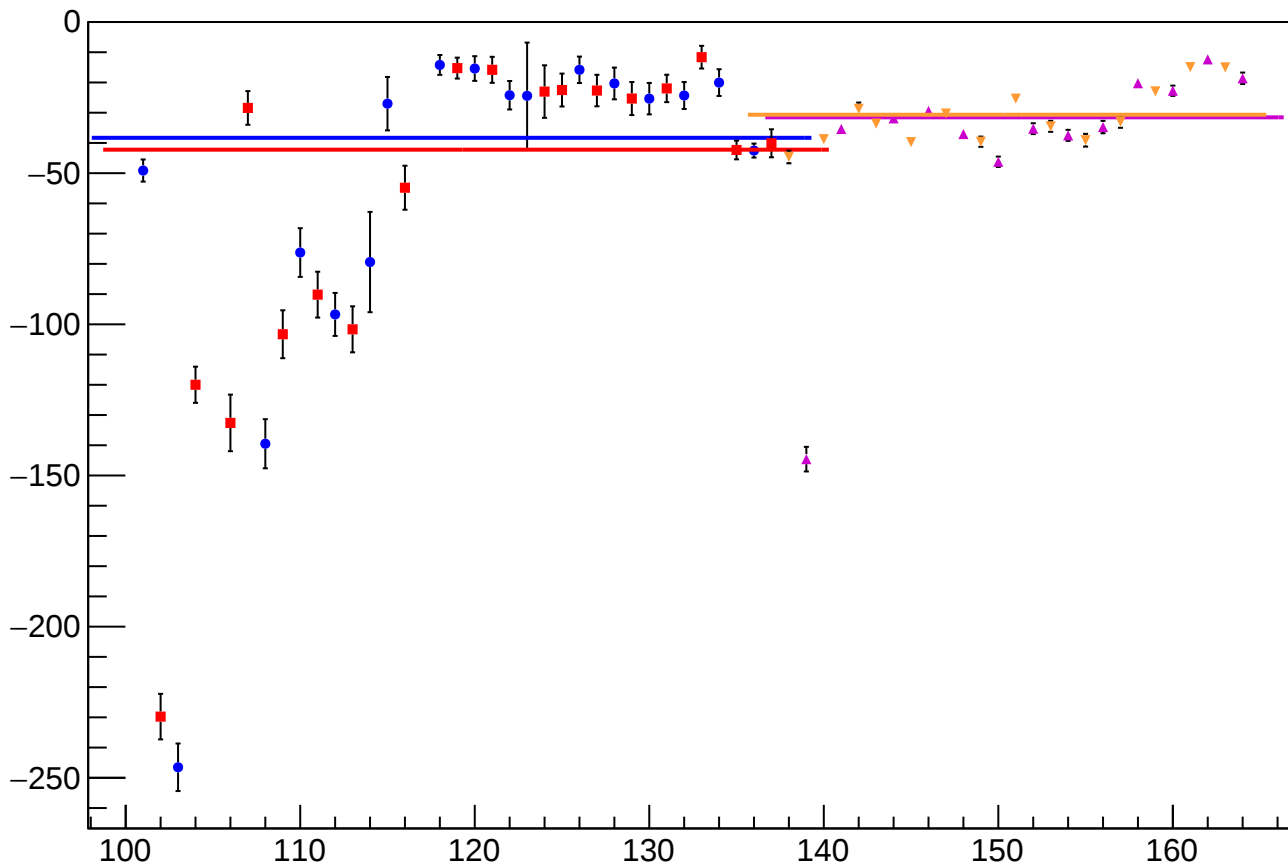
Left In: -40.103+/-0.650  $\chi^2/\text{NDF}$ : 341.6/12

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

All: -42.402+/-0.457  $\chi^2/\text{NDF}$ : 703.2/26

- 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:  $-30.667 \pm 0.453$   $\chi^2/\text{NDF}$ : 390.6/13

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}$ : 1278.1/17

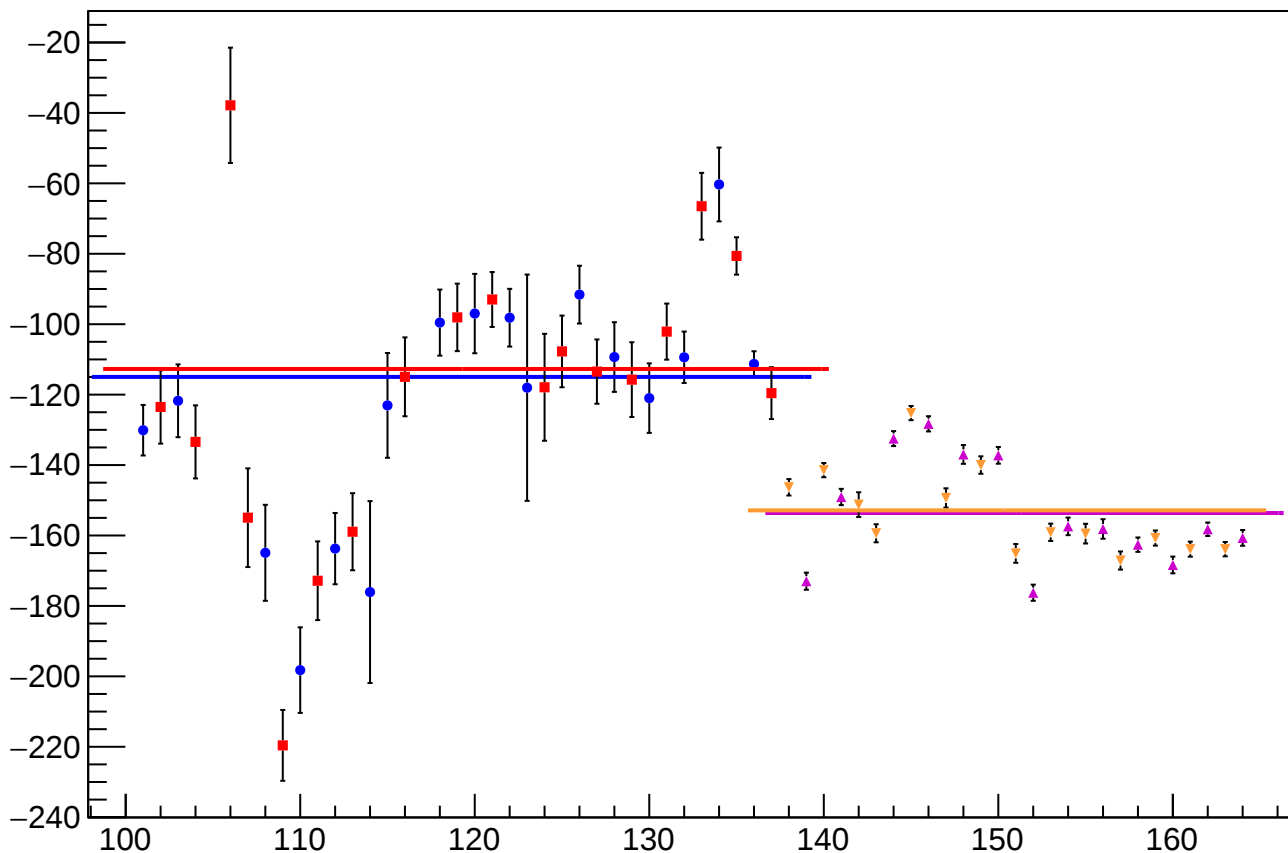
Left In:  $-31.532 \pm 0.464$   $\chi^2/\text{NDF}$ : 1160.1/12

+ sign  $-31.710 \pm 0.421$   $\chi^2/\text{NDF}$ : 1562.3/30

All:  $-32.289 \pm 0.302$   $\chi^2/\text{NDF}$ : 4072.7/61

- sign  $-32.902 \pm 0.433$   $\chi^2/\text{NDF}$ : 2506.5/30

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}$ : 141.4/16

Left Out:  $-152.862 \pm 0.637$   $\chi^2/\text{NDF}$ : 395.5/13

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}$ : 267.1/17

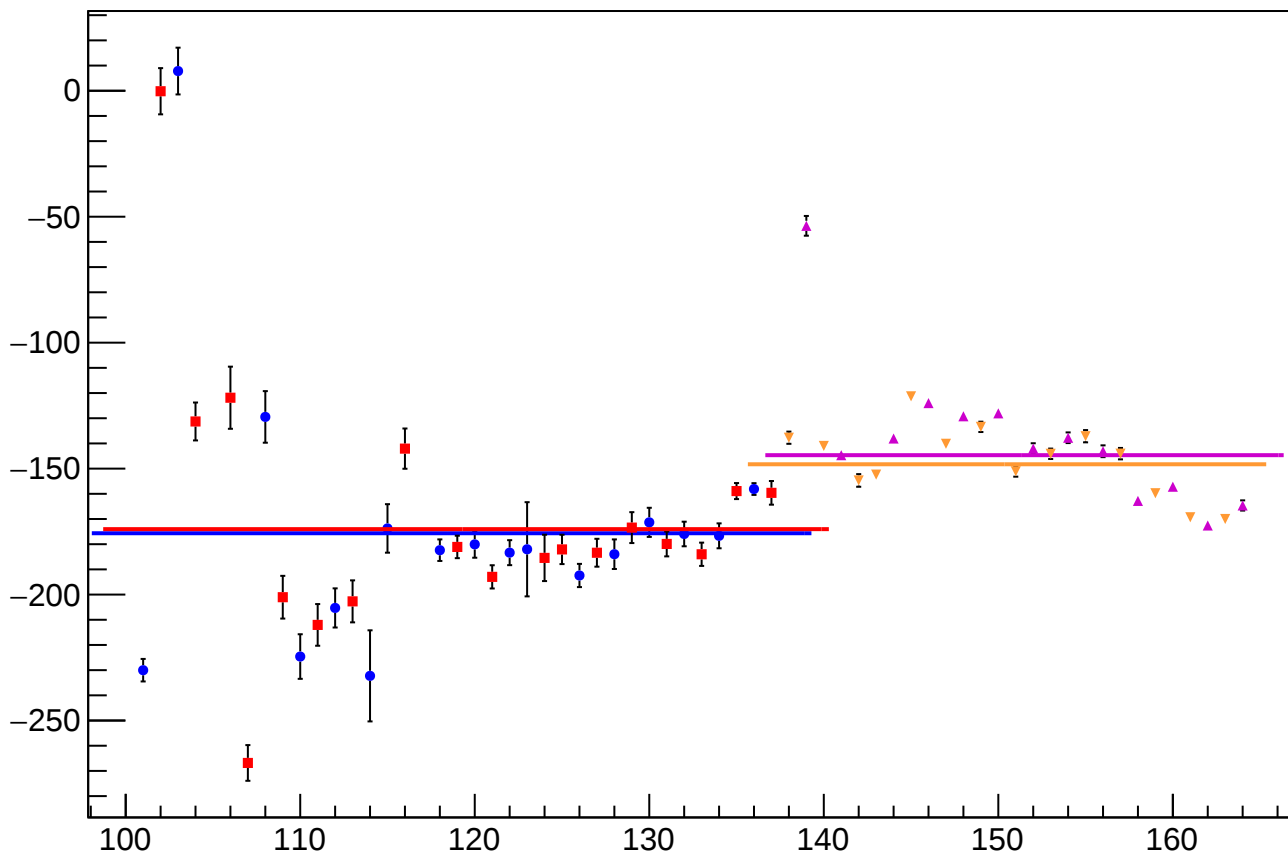
Left In:  $-153.616 \pm 0.635$   $\chi^2/\text{NDF}$ : 566.4/12

+ sign  $-149.600 \pm 0.609$   $\chi^2/\text{NDF}$ : 841.9/30

All:  $-150.048 \pm 0.431$   $\chi^2/\text{NDF}$ : 1992.9/61

- sign  $-150.498 \pm 0.610$   $\chi^2/\text{NDF}$ : 1149.9/30

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-148.274 \pm 0.528$   $\chi^2/\text{NDF}$ : 750.7/13

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

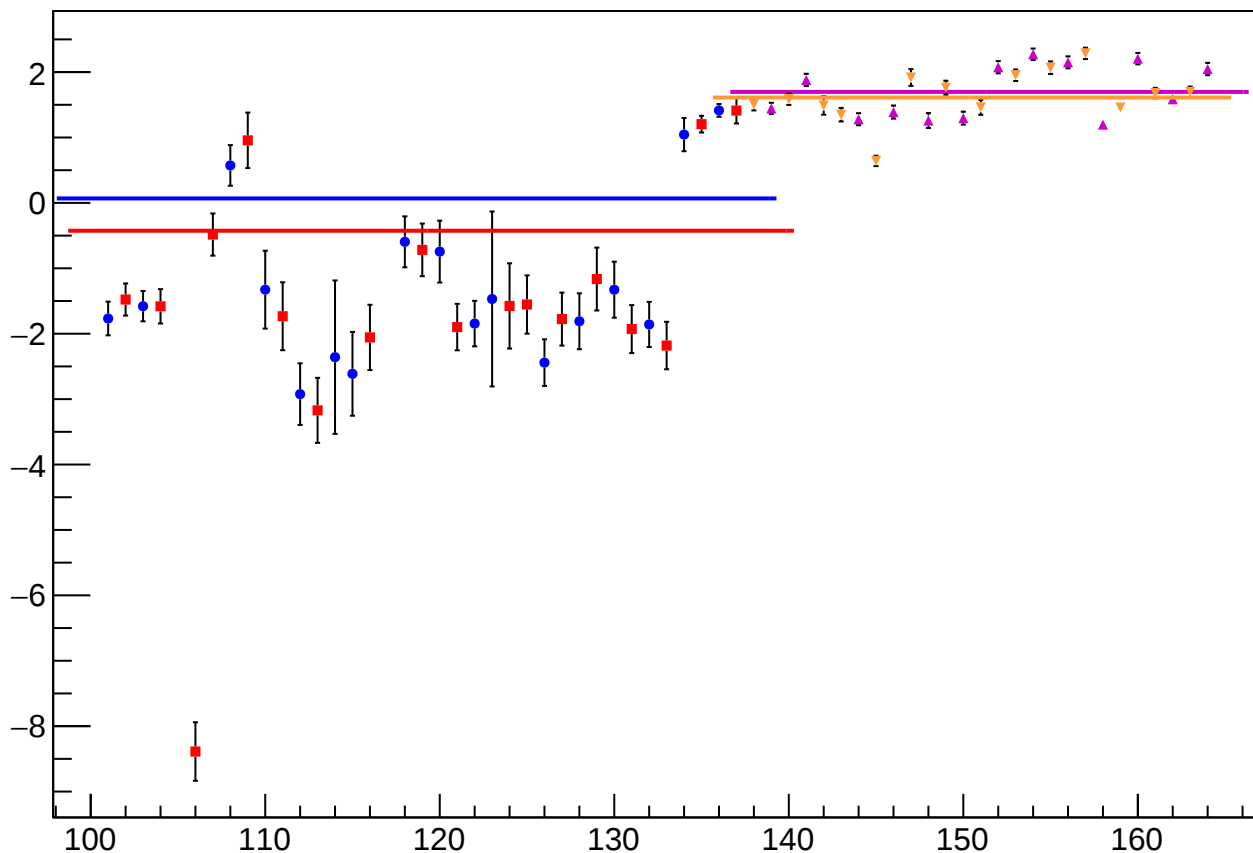
Left In:  $-144.660 \pm 0.536$   $\chi^2/\text{NDF}$ : 1396.4/12

+ sign  $-152.312 \pm 0.487$   $\chi^2/\text{NDF}$ : 1839.5/30

All:  $-150.517 \pm 0.349$   $\chi^2/\text{NDF}$ : 4373.1/61

- sign  $-148.637 \pm 0.499$   $\chi^2/\text{NDF}$ : 2505.8/30

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $0.068 \pm 0.067$   $\chi^2/\text{NDF}$ : 525.9/16

Left Out:  $1.611 \pm 0.025$   $\chi^2/\text{NDF}$ : 271.7/13

Right Out:  $-0.425 \pm 0.071$   $\chi^2/\text{NDF}$ : 742.9/17

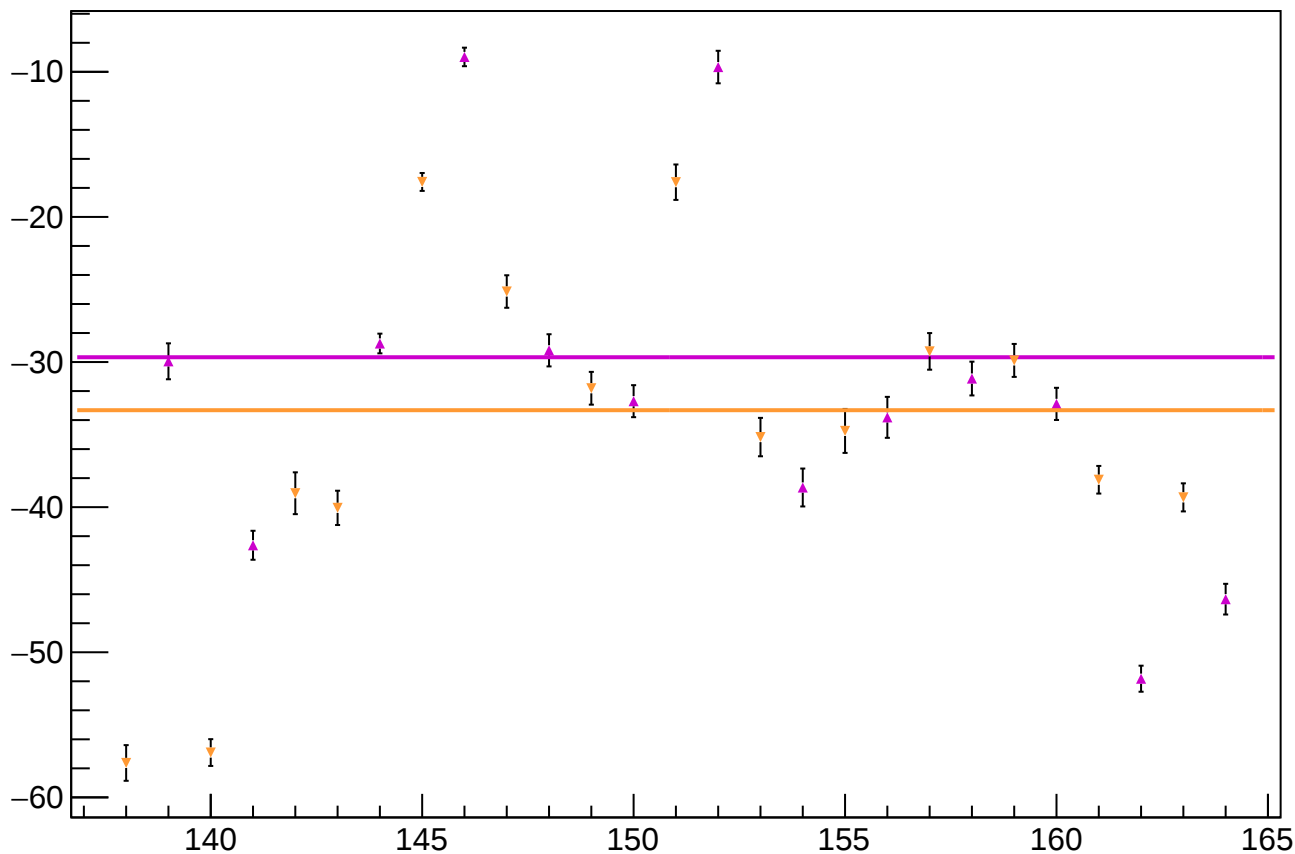
Left In:  $1.697 \pm 0.025$   $\chi^2/\text{NDF}$ : 254.1/12

+ sign  $1.425 \pm 0.023$   $\chi^2/\text{NDF}$ : 1263.4/30

All:  $1.445 \pm 0.017$   $\chi^2/\text{NDF}$ : 3052.8/61

- sign  $1.466 \pm 0.023$   $\chi^2/\text{NDF}$ : 1787.8/30

# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



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

Left Out: -33.319+/-0.283  $\chi^2/\text{NDF}$ : 2049.6/13

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

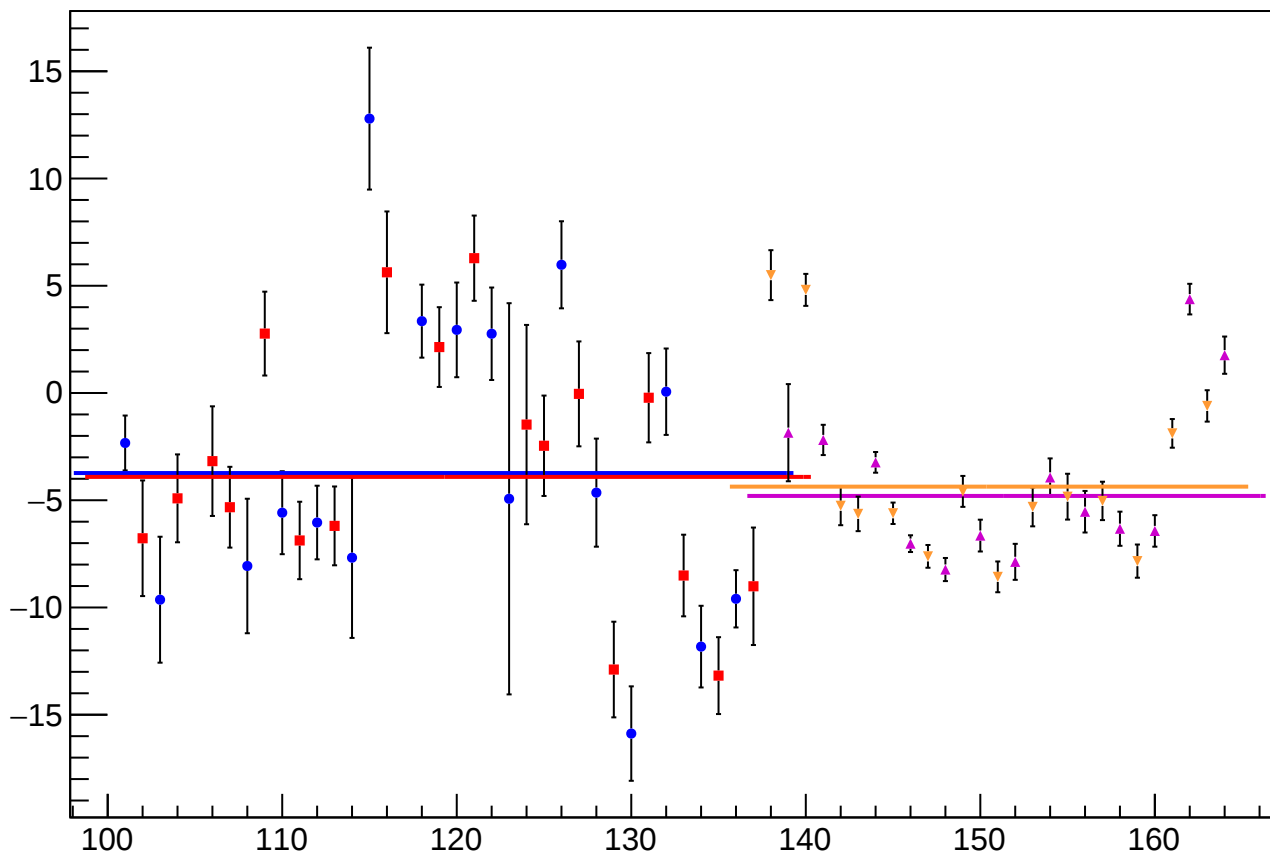
Left In: -29.669+/-0.272  $\chi^2/\text{NDF}$ : 2470.2/12

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

All: -31.424+/-0.196  $\chi^2/\text{NDF}$ : 4606.2/26

- 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:  $-4.366 \pm 0.197$   $\chi^2/\text{NDF}: 367.1/13$

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}: 124.8/17$

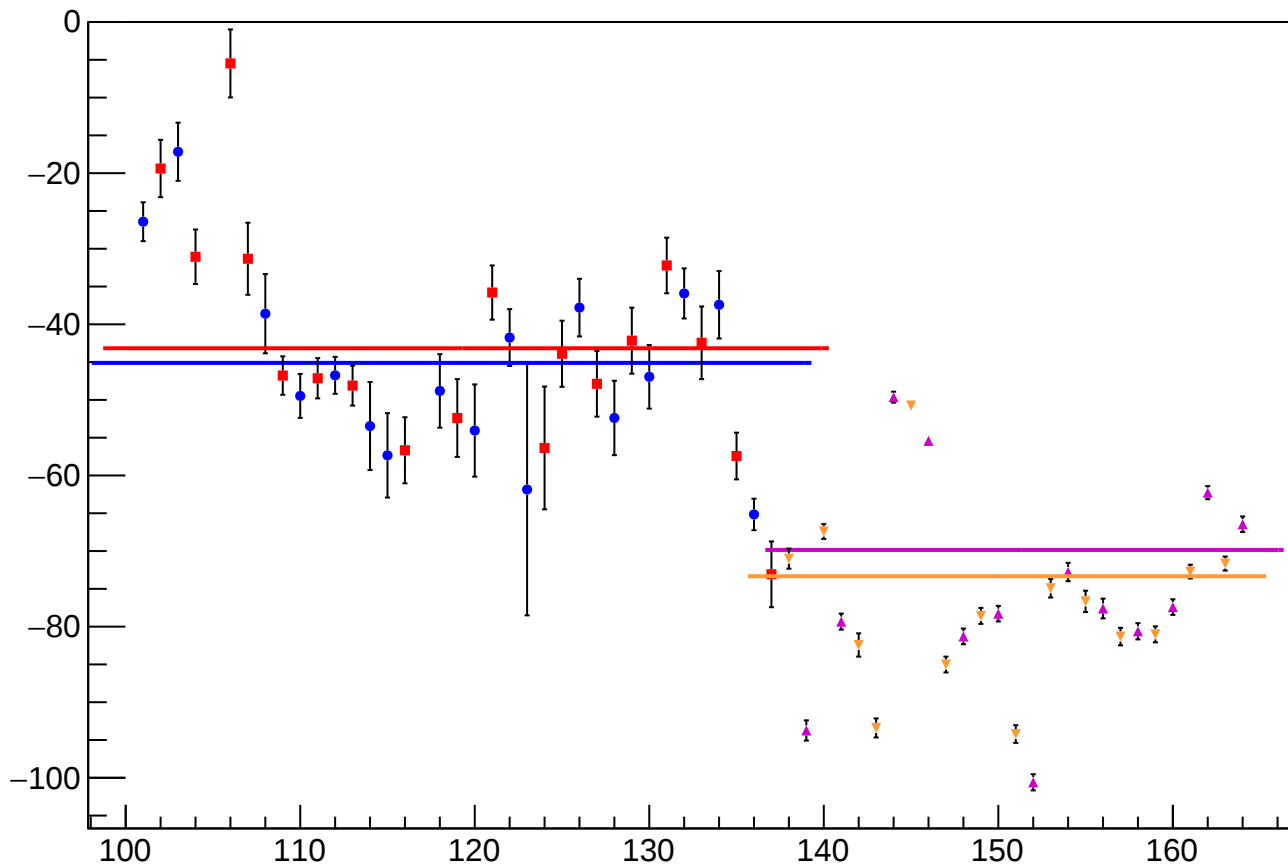
Left In:  $-4.799 \pm 0.186$   $\chi^2/\text{NDF}: 351.1/12$

+ sign  $-4.280 \pm 0.183$   $\chi^2/\text{NDF}: 534.3/30$

All:  $-4.496 \pm 0.126$   $\chi^2/\text{NDF}: 1015.6/61$

- sign  $-4.693 \pm 0.175$   $\chi^2/\text{NDF}: 478.6/30$

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-73.333 \pm 0.281$   $\chi^2/\text{NDF}$ : 2094.7/13

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

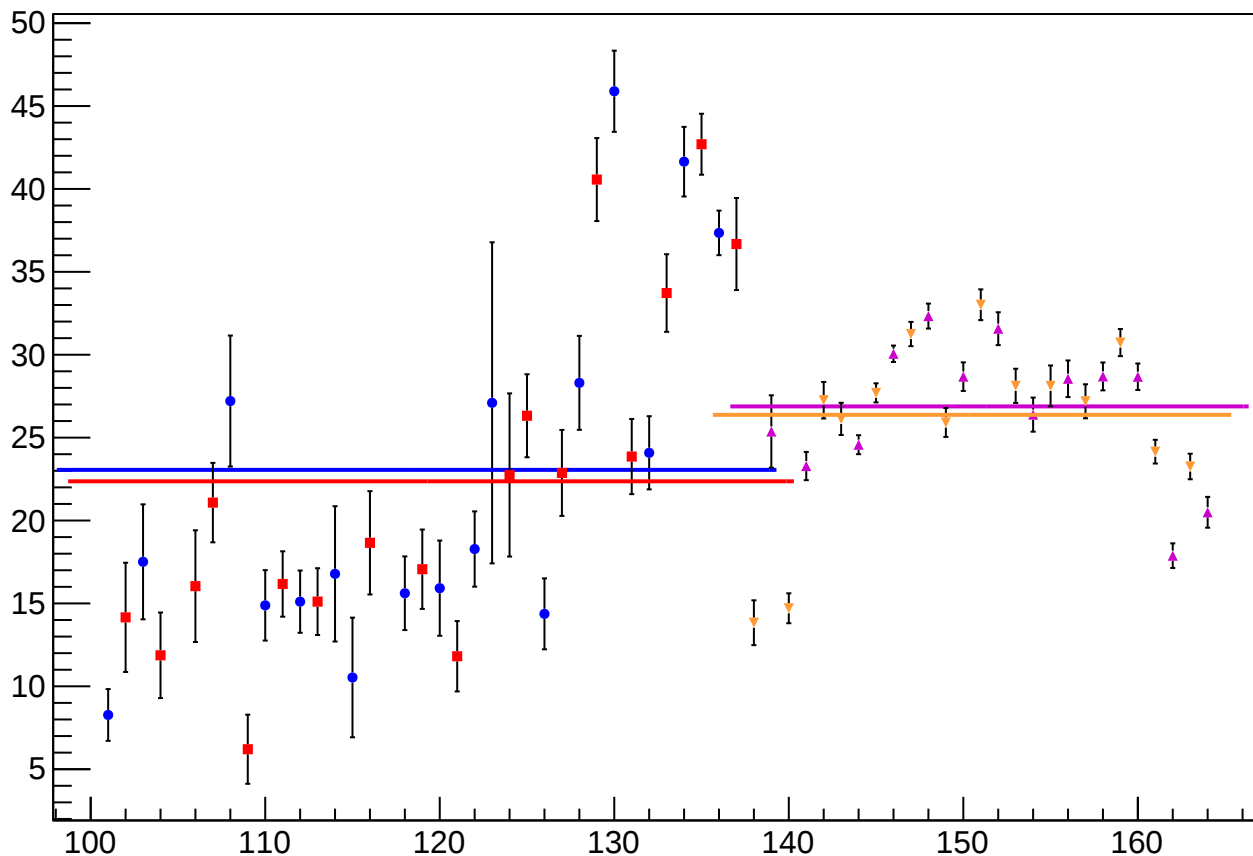
Left In:  $-69.854 \pm 0.266$   $\chi^2/\text{NDF}$ : 3018.2/12

+ sign  $-70.737 \pm 0.268$   $\chi^2/\text{NDF}$ : 3254.4/30

All:  $-69.098 \pm 0.185$   $\chi^2/\text{NDF}$ : 7421.0/61

- sign  $-67.608 \pm 0.255$   $\chi^2/\text{NDF}$ : 4094.9/30

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 26.374 $\pm$ 0.231  $\chi^2$ /NDF: 414.9/13

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

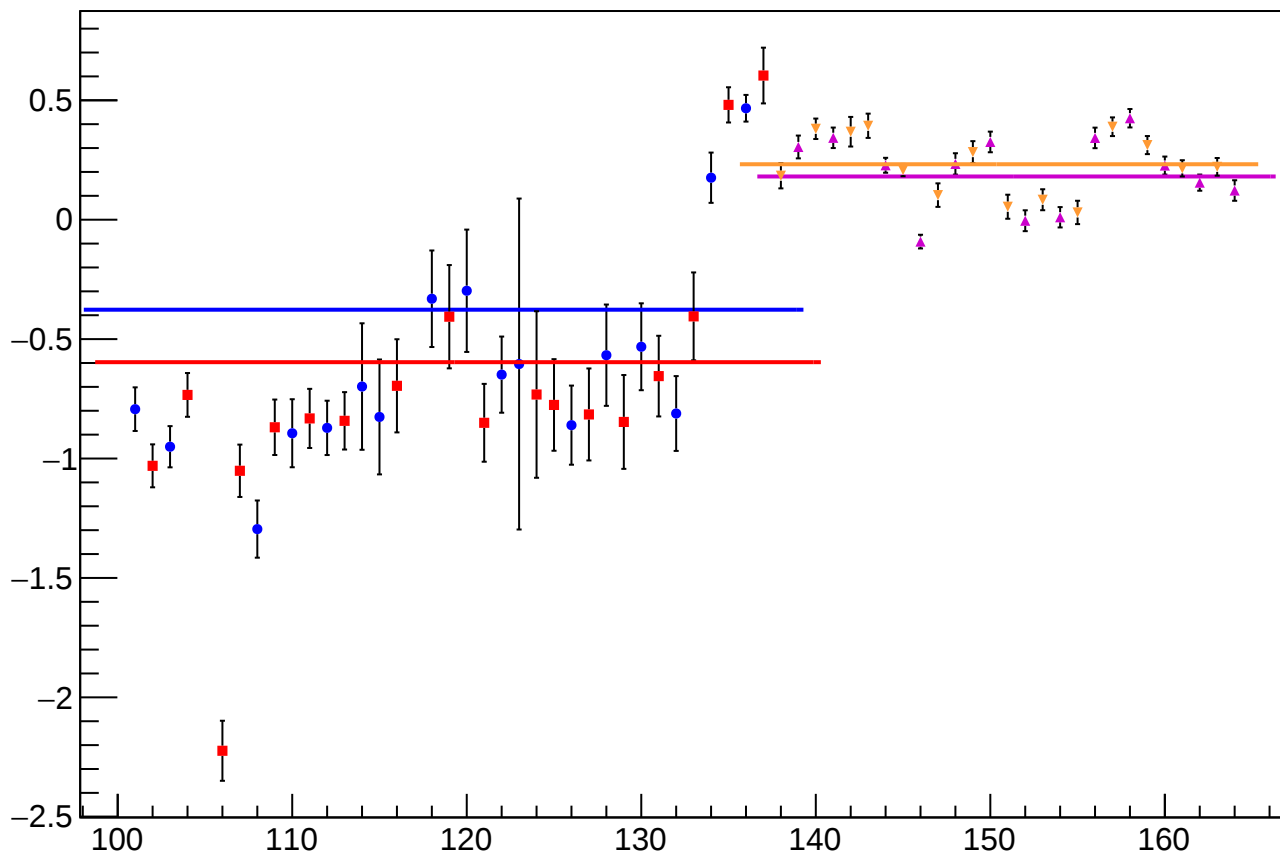
Left In: 26.884 $\pm$ 0.221  $\chi^2$ /NDF: 360.5/12

+ sign 25.886 $\pm$ 0.214  $\chi^2$ /NDF: 906.3/30

All: 26.101 $\pm$ 0.148  $\chi^2$ /NDF: 1691.7/61

- sign 26.300 $\pm$ 0.206  $\chi^2$ /NDF: 783.5/30

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.4/16$

Left Out:  $0.232 \pm 0.011$   $\chi^2/\text{NDF}: 98.7/13$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

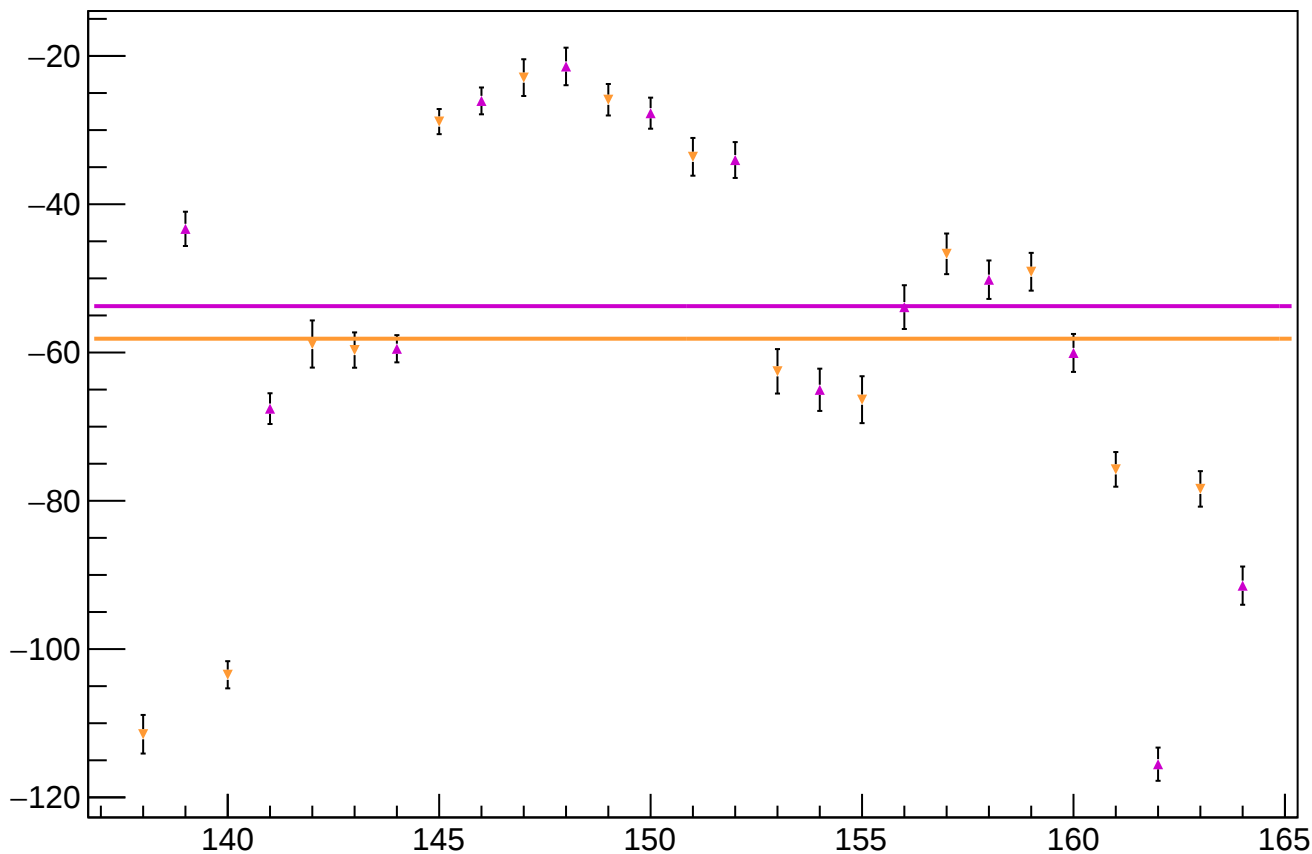
Left In:  $0.181 \pm 0.011$   $\chi^2/\text{NDF}: 218.3/12$

+ sign  $0.160 \pm 0.010$   $\chi^2/\text{NDF}: 897.0/30$

All:  $0.126 \pm 0.007$   $\chi^2/\text{NDF}: 2274.4/61$

- sign  $0.094 \pm 0.010$   $\chi^2/\text{NDF}: 1356.5/30$

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



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

Left Out: -58.136+/-0.637  $\chi^2/\text{NDF}$ : 2022.7/13

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

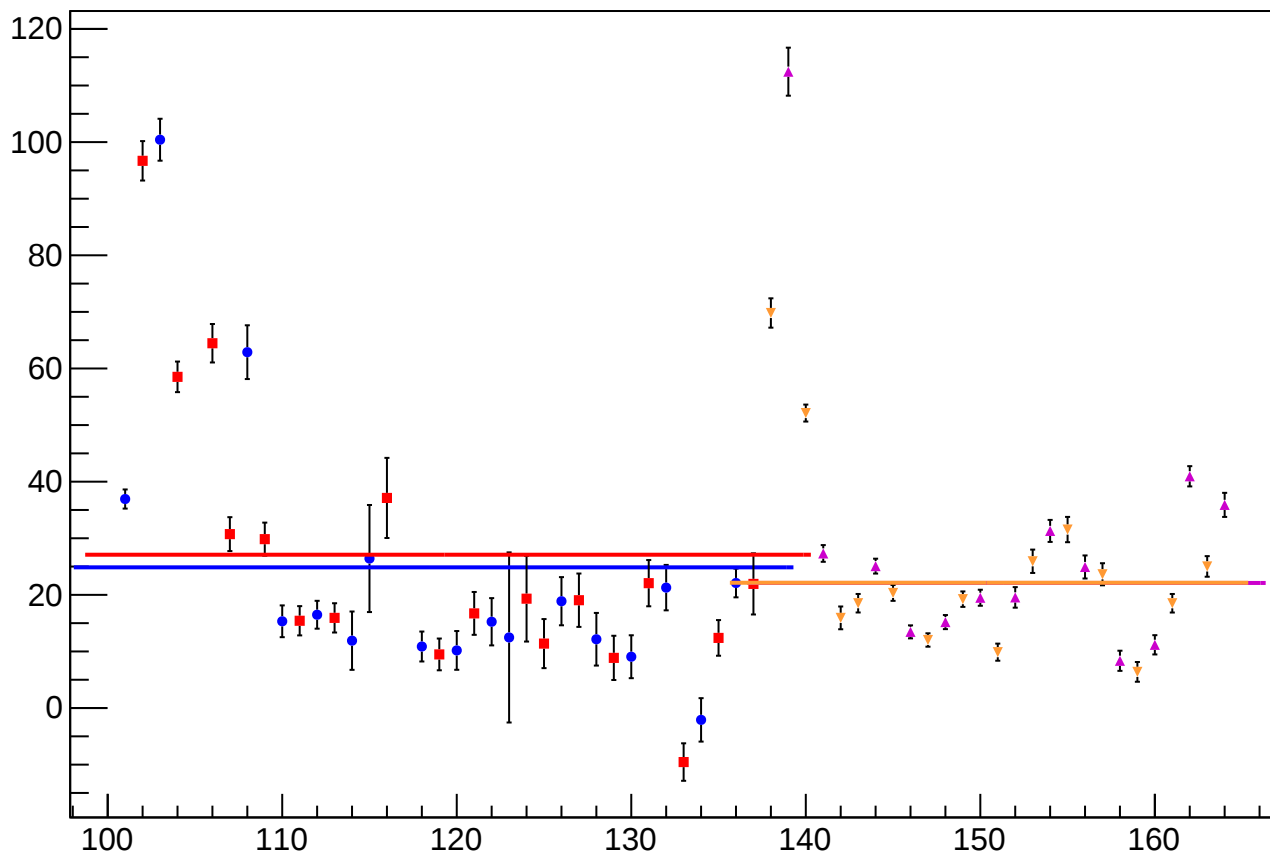
Left In: -53.745+/-0.637  $\chi^2/\text{NDF}$ : 1690.5/12

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

All: -55.940+/-0.450  $\chi^2/\text{NDF}$ : 3736.9/26

- 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:  $22.139 \pm 0.442$   $\chi^2/\text{NDF}$ : 1007.9/13

Right Out:  $27.093 \pm 0.812$   $\chi^2/\text{NDF}$ : 930.9/17

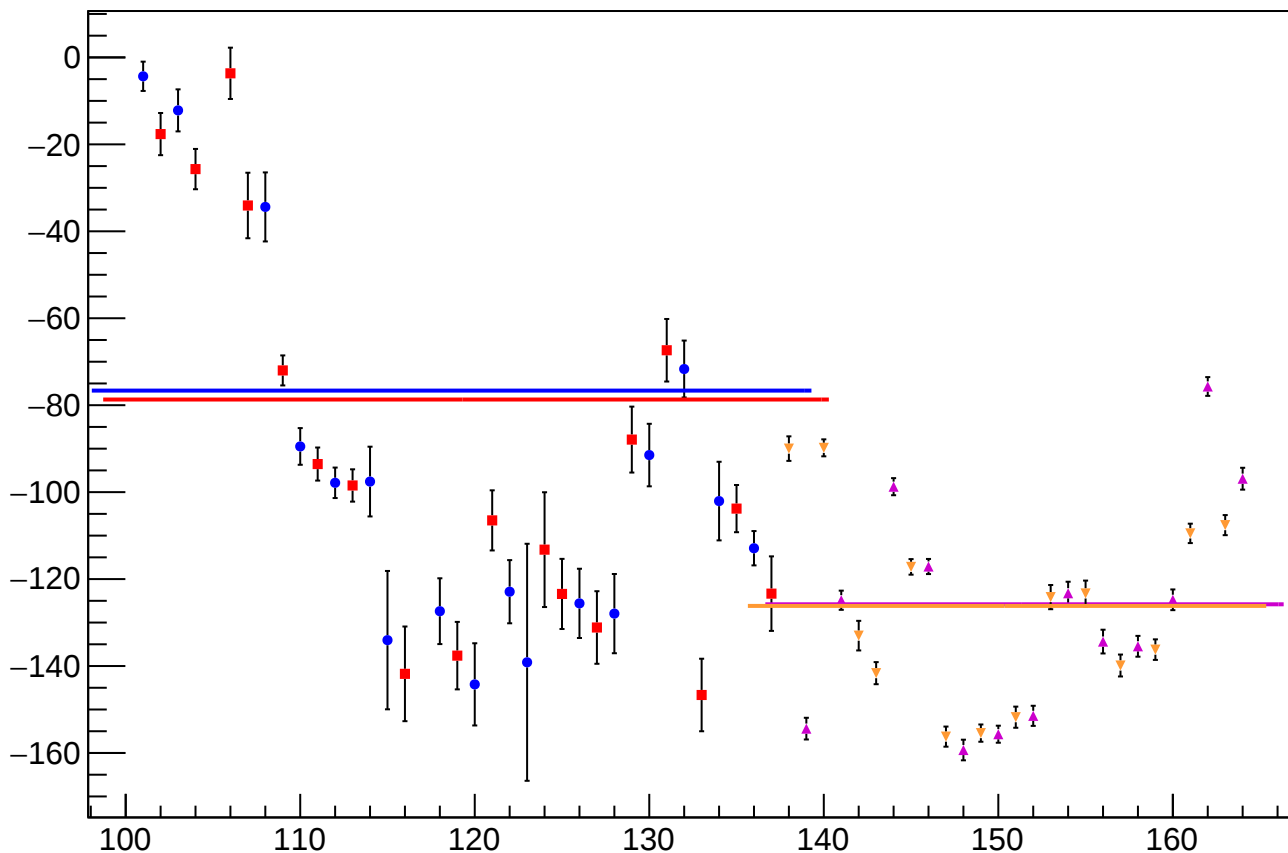
Left In:  $22.103 \pm 0.447$   $\chi^2/\text{NDF}$ : 842.0/12

+ sign  $22.774 \pm 0.387$   $\chi^2/\text{NDF}$ : 1707.7/30

All:  $23.017 \pm 0.275$   $\chi^2/\text{NDF}$ : 3510.4/61

- sign  $23.266 \pm 0.392$   $\chi^2/\text{NDF}$ : 1801.9/30

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}$ : 1040.7/16

Left Out:  $-126.172 \pm 0.630$   $\chi^2/\text{NDF}$ : 1243.8/13

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}$ : 836.5/17

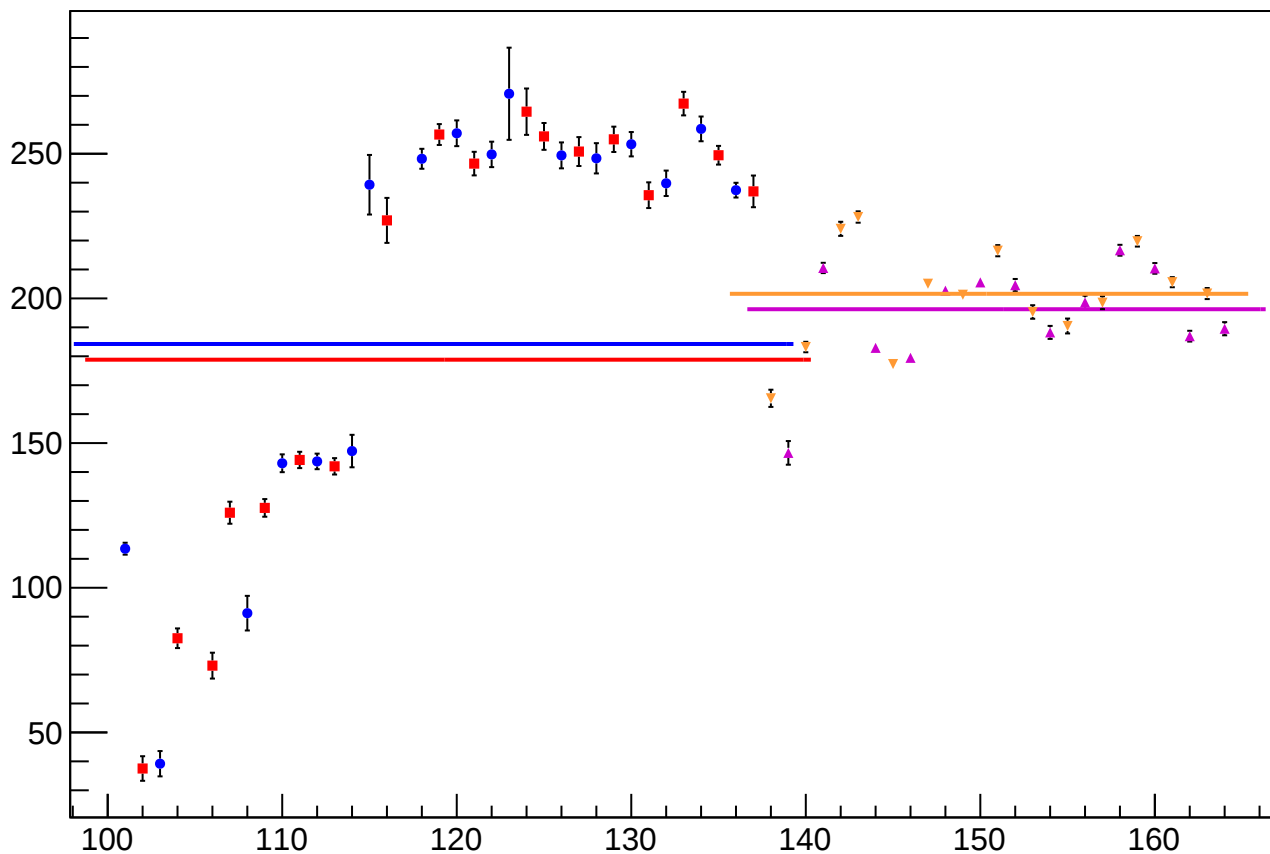
Left In:  $-125.800 \pm 0.623$   $\chi^2/\text{NDF}$ : 1599.6/12

+ sign  $-117.972 \pm 0.576$   $\chi^2/\text{NDF}$ : 3307.3/30

All:  $-117.802 \pm 0.404$   $\chi^2/\text{NDF}$ : 6735.4/61

- sign  $-117.638 \pm 0.566$   $\chi^2/\text{NDF}$ : 3428.0/30

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 201.593 $\pm$ 0.521  $\chi^2$ /NDF: 941.6/13

Right Out: 178.822 $\pm$ 0.926  $\chi^2$ /NDF: 6171.0/17

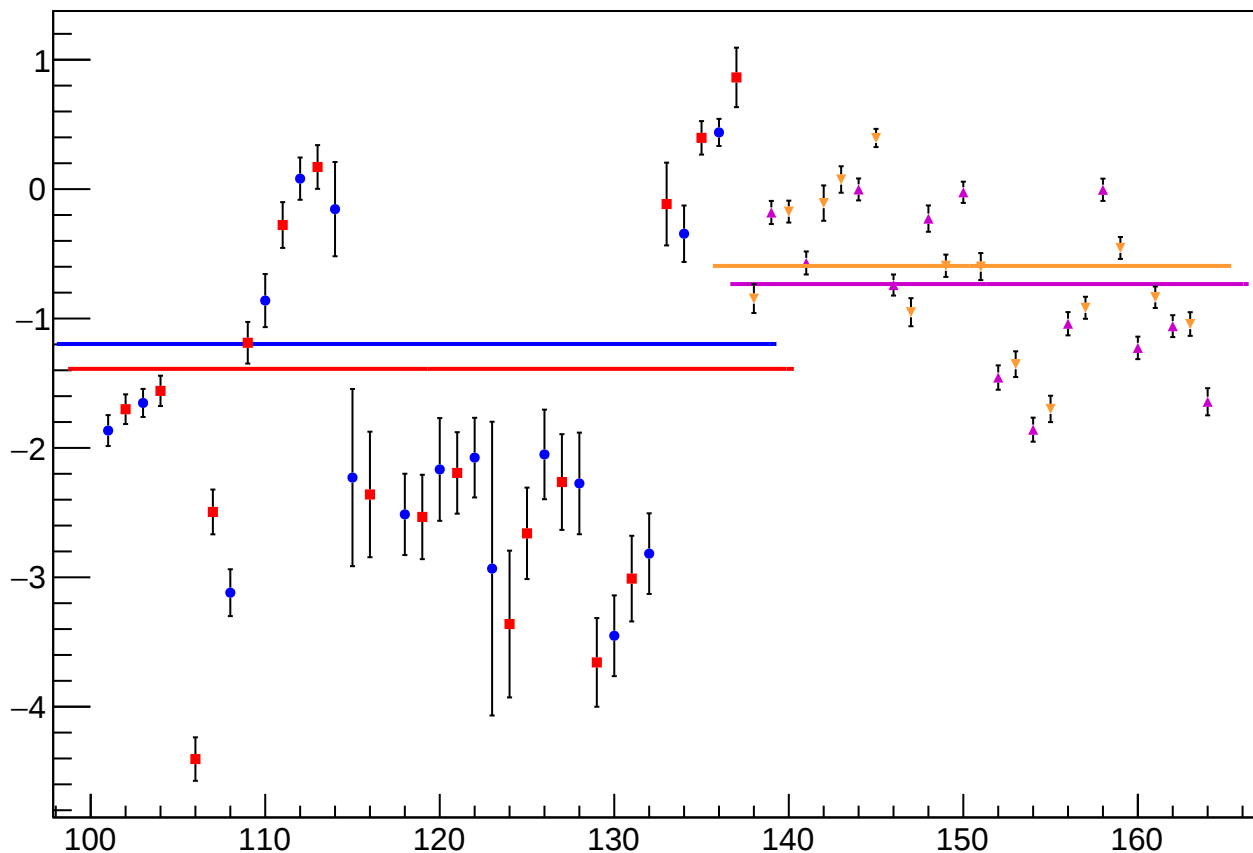
Left In: 196.263 $\pm$ 0.524  $\chi^2$ /NDF: 707.5/12

+ sign 197.343 $\pm$ 0.453  $\chi^2$ /NDF: 6601.4/30

All: 194.704 $\pm$ 0.321  $\chi^2$ /NDF: 13816.9/61

- sign 192.032 $\pm$ 0.456  $\chi^2$ /NDF: 7147.3/30

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In: -1.197±/0.048  $\chi^2/\text{NDF}$ : 621.5/16

Left Out: -0.594±/0.025  $\chi^2/\text{NDF}$ : 519.1/13

Right Out: -1.389±/0.046  $\chi^2/\text{NDF}$ : 922.2/17

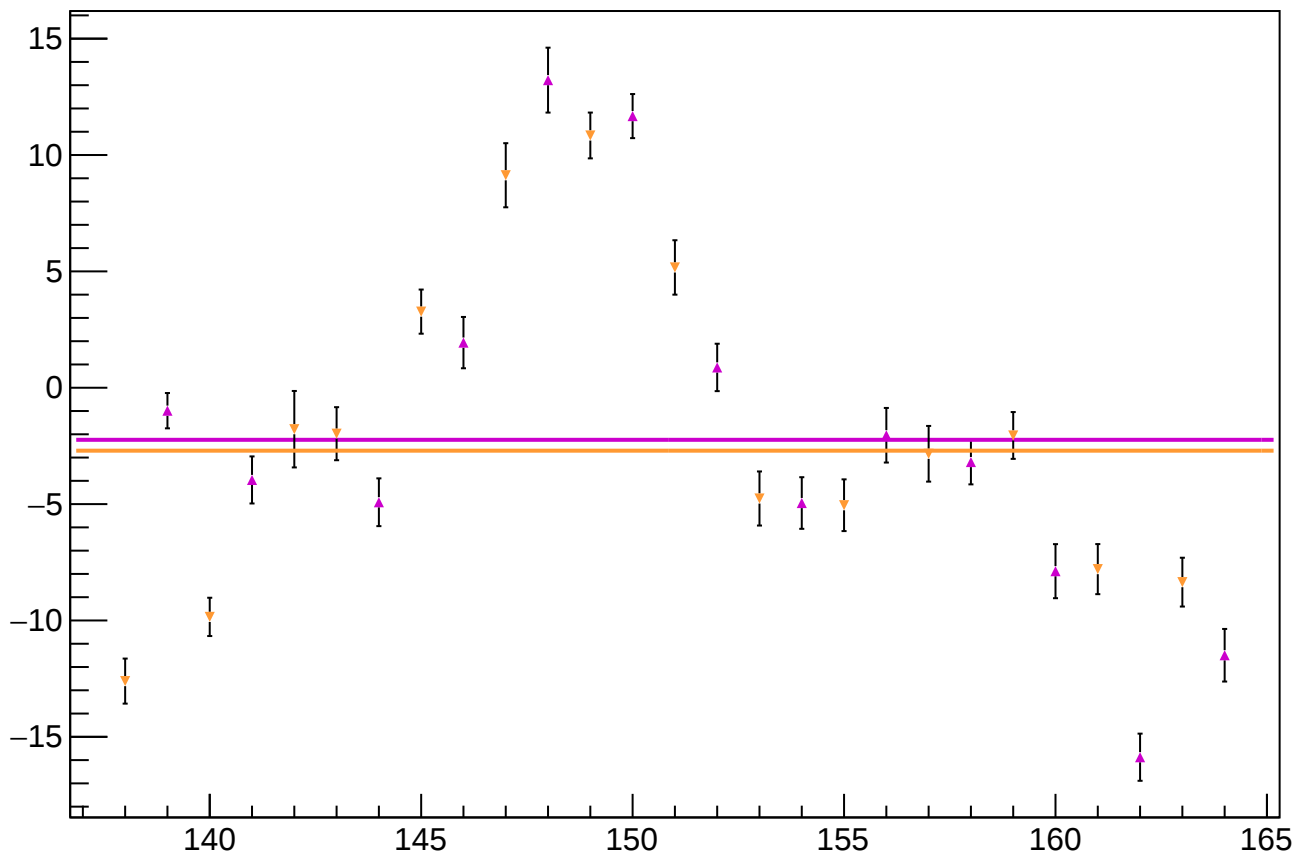
Left In: -0.734±/0.025  $\chi^2/\text{NDF}$ : 626.7/12

+ sign -0.720±/0.022  $\chi^2/\text{NDF}$ : 1264.7/30

All: -0.801±/0.016  $\chi^2/\text{NDF}$ : 2997.3/61

- sign -0.880±/0.022  $\chi^2/\text{NDF}$ : 1706.1/30

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



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

Left Out: -2.704+/-0.287  $\chi^2/\text{NDF}$ : 588.4/13

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

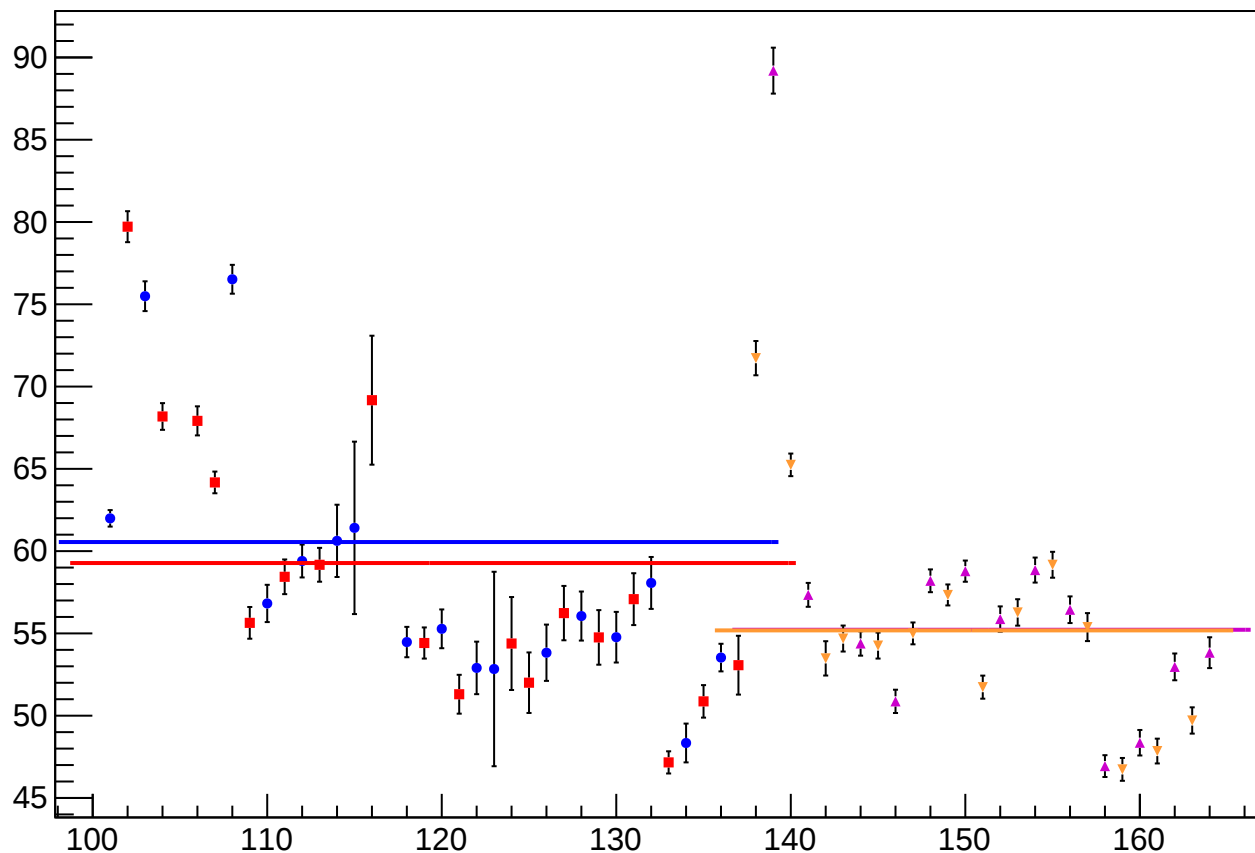
Left In: -2.237+/-0.286  $\chi^2/\text{NDF}$ : 653.5/12

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

All: -2.470+/-0.203  $\chi^2/\text{NDF}$ : 1243.2/26

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

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In: 60.552 $\pm$ 0.262  $\chi^2$ /NDF: 931.0/16

Left Out: 55.183 $\pm$ 0.205  $\chi^2$ /NDF: 824.8/13

Right Out: 59.276 $\pm$ 0.249  $\chi^2$ /NDF: 1274.8/17

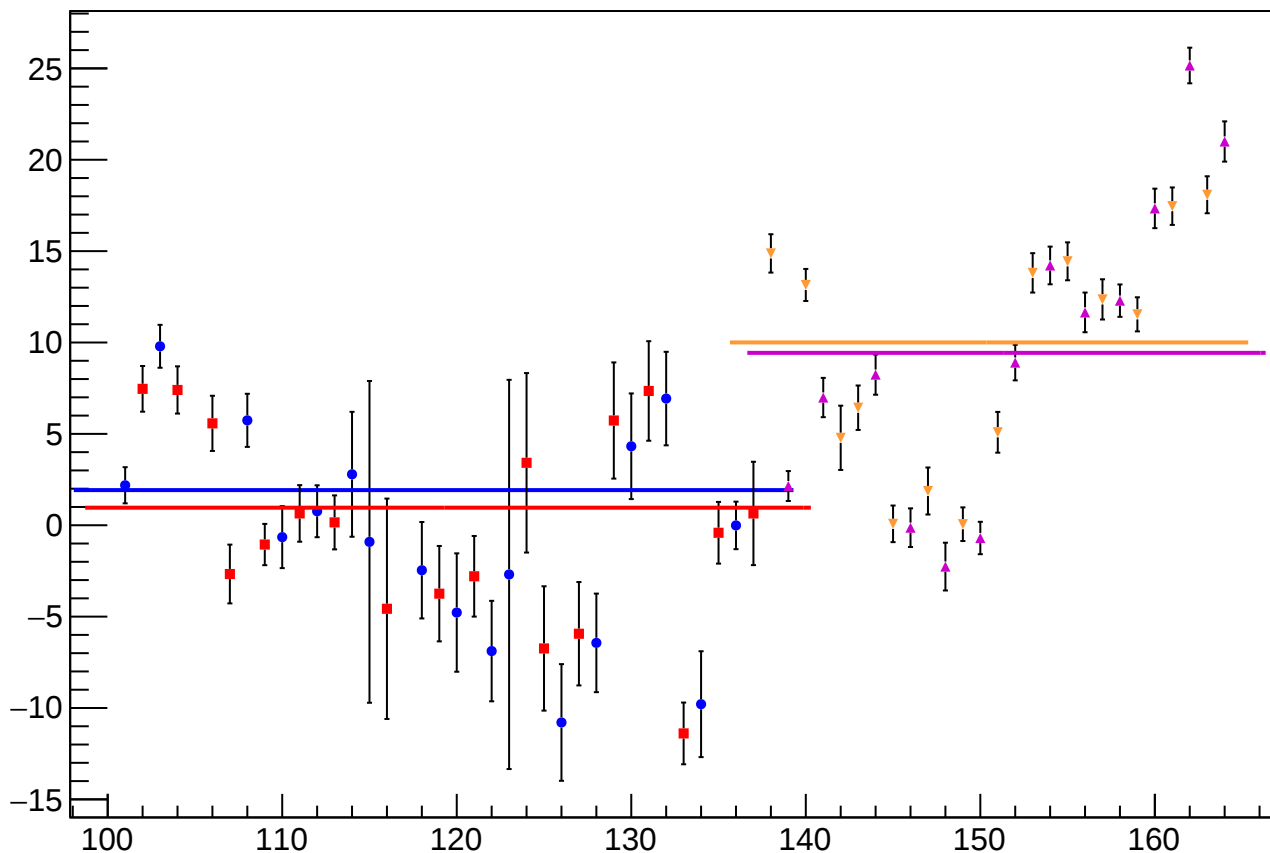
Left In: 55.221 $\pm$ 0.212  $\chi^2$ /NDF: 959.2/12

+ sign 57.219 $\pm$ 0.161  $\chi^2$ /NDF: 2016.9/30

All: 57.072 $\pm$ 0.114  $\chi^2$ /NDF: 4406.4/61

- sign 56.925 $\pm$ 0.161  $\chi^2$ /NDF: 2387.8/30

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}: 121.1/16$

Left Out:  $10.005 \pm 0.283$   $\chi^2/\text{NDF}: 480.9/13$

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}: 150.1/17$

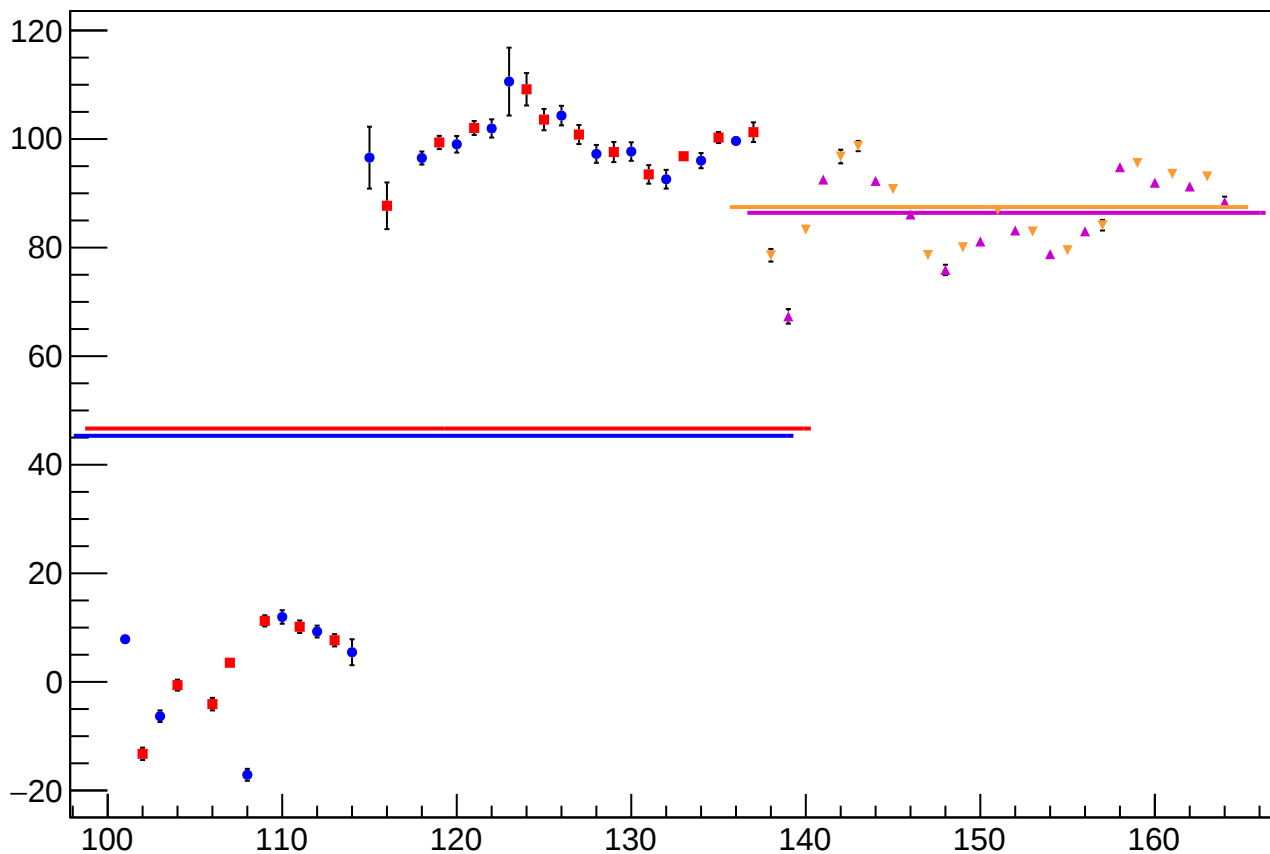
Left In:  $9.434 \pm 0.280$   $\chi^2/\text{NDF}: 838.0/12$

+ sign  $7.774 \pm 0.241$   $\chi^2/\text{NDF}: 827.1/30$

All:  $7.331 \pm 0.168$   $\chi^2/\text{NDF}: 2094.8/61$

- sign  $6.912 \pm 0.234$   $\chi^2/\text{NDF}: 1261.2/30$

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.331+/-0.304  $\chi^2/\text{NDF}$ : 25006.9/16

Left Out: 87.468+/-0.238  $\chi^2/\text{NDF}$ : 821.8/13

Right Out: 46.673+/-0.291  $\chi^2/\text{NDF}$ : 27896.8/17

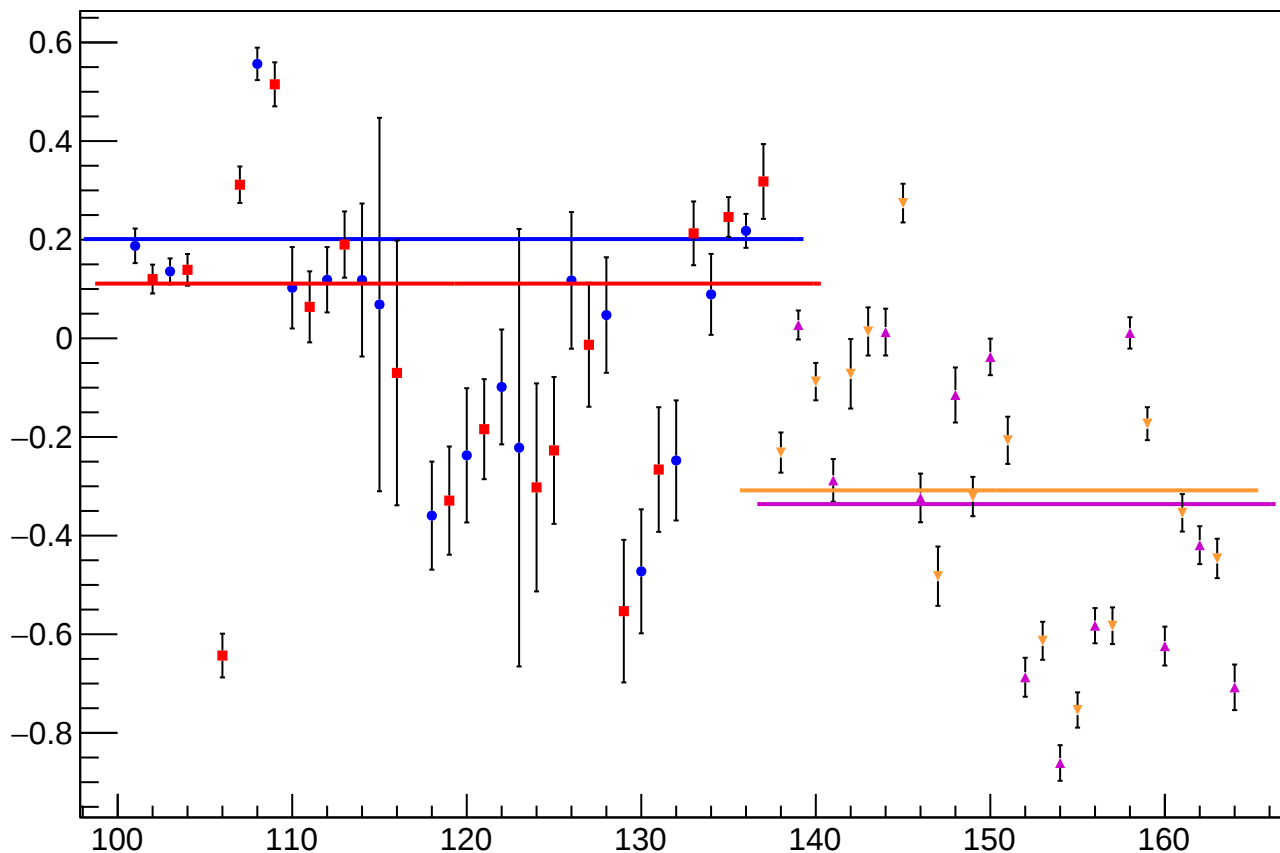
Left In: 86.404+/-0.243  $\chi^2/\text{NDF}$ : 794.4/12

+ sign 71.447+/-0.187  $\chi^2/\text{NDF}$ : 37768.1/30

All: 70.760+/-0.132  $\chi^2/\text{NDF}$ : 77485.3/61

- sign 70.078+/-0.186  $\chi^2/\text{NDF}$ : 39690.3/30

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}: 217.3/16$

Left Out:  $-0.308 \pm 0.011$   $\chi^2/\text{NDF}: 627.6/13$

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}: 489.6/17$

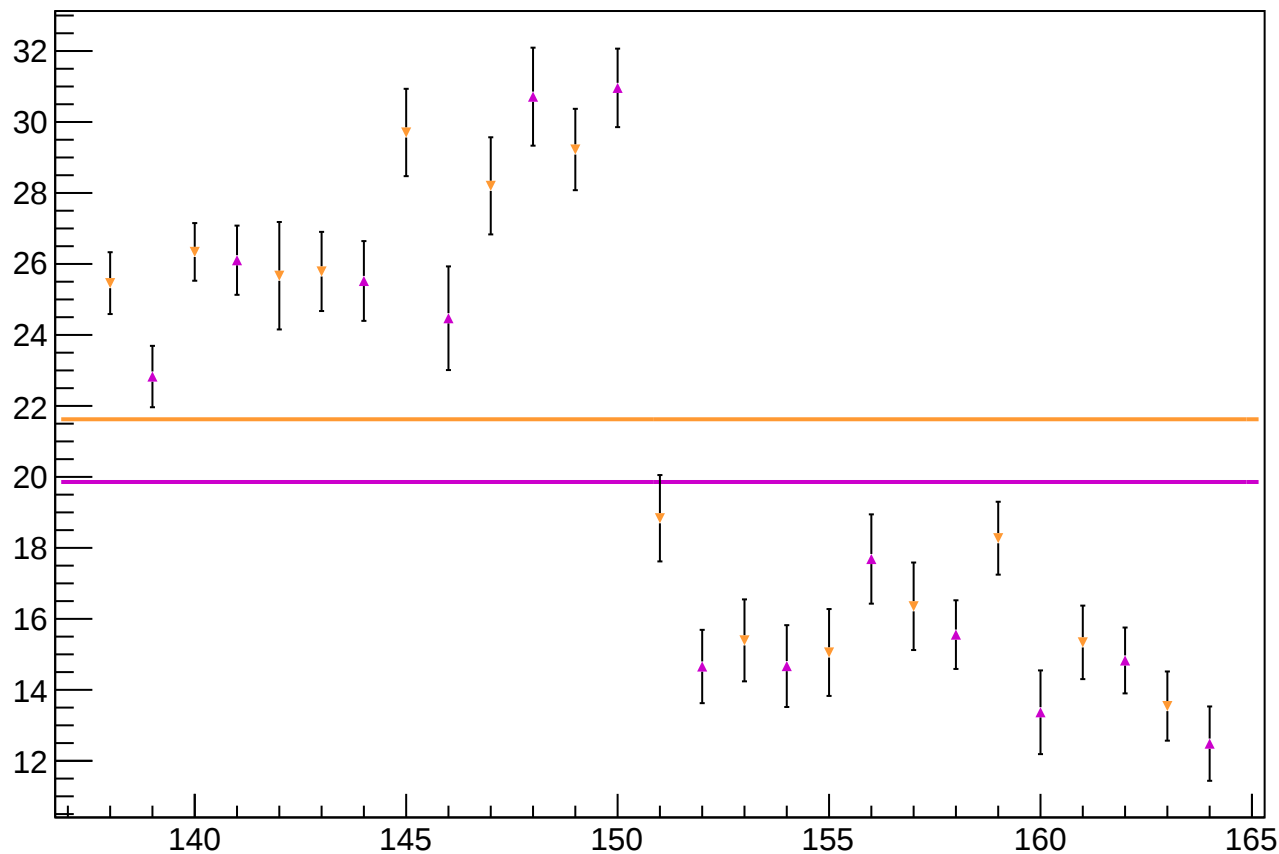
Left In:  $-0.336 \pm 0.011$   $\chi^2/\text{NDF}: 867.8/12$

+ sign  $-0.115 \pm 0.009$   $\chi^2/\text{NDF}: 1662.4/30$

All:  $-0.136 \pm 0.006$   $\chi^2/\text{NDF}: 3720.0/61$

- sign  $-0.156 \pm 0.008$   $\chi^2/\text{NDF}: 2045.9/30$

# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



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

Left Out: 21.624+/-0.292  $\chi^2/\text{NDF}$ : 382.0/13

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

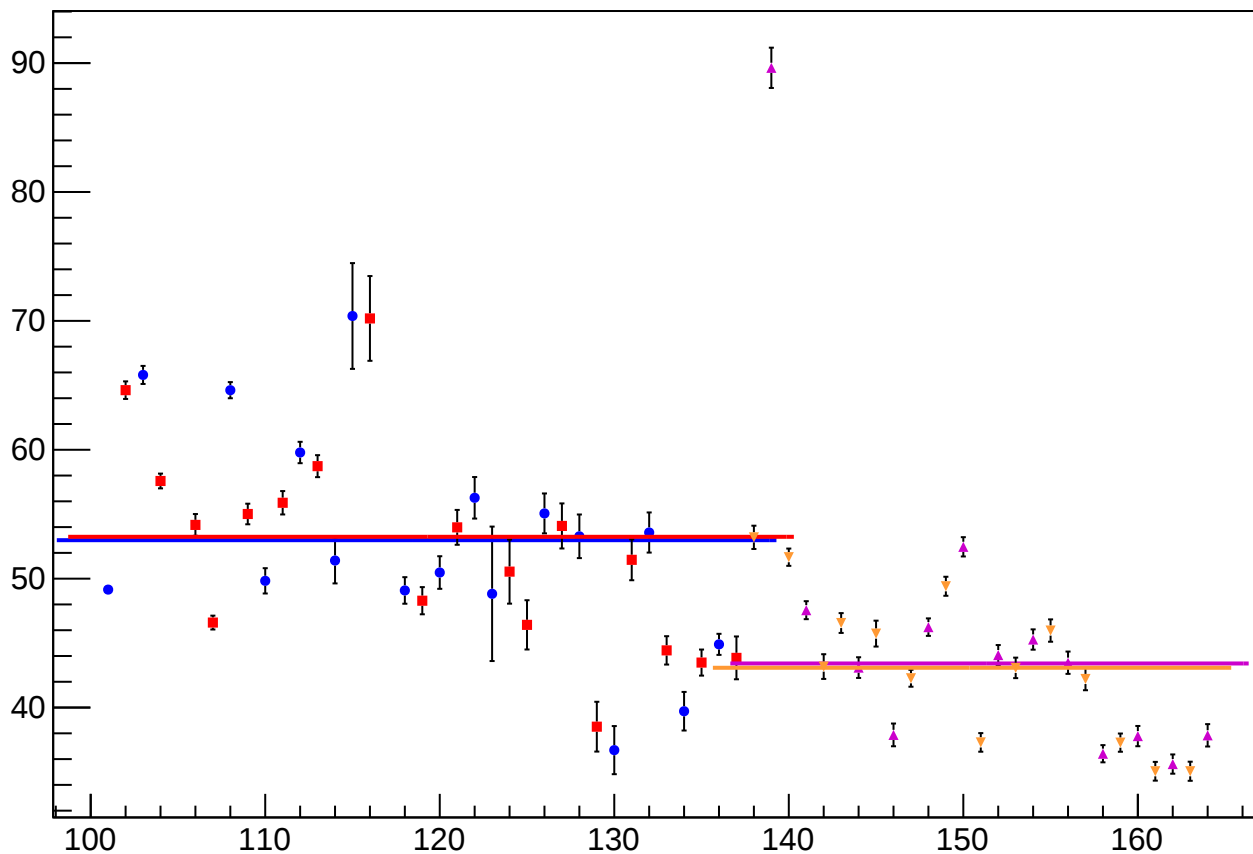
Left In: 19.856+/-0.299  $\chi^2/\text{NDF}$ : 428.4/12

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

All: 20.761+/-0.209  $\chi^2/\text{NDF}$ : 828.4/26

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

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 52.985 $\pm$ 0.210  $\chi^2$ /NDF: 1197.9/16

Left Out: 43.086 $\pm$ 0.207  $\chi^2$ /NDF: 774.9/13

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

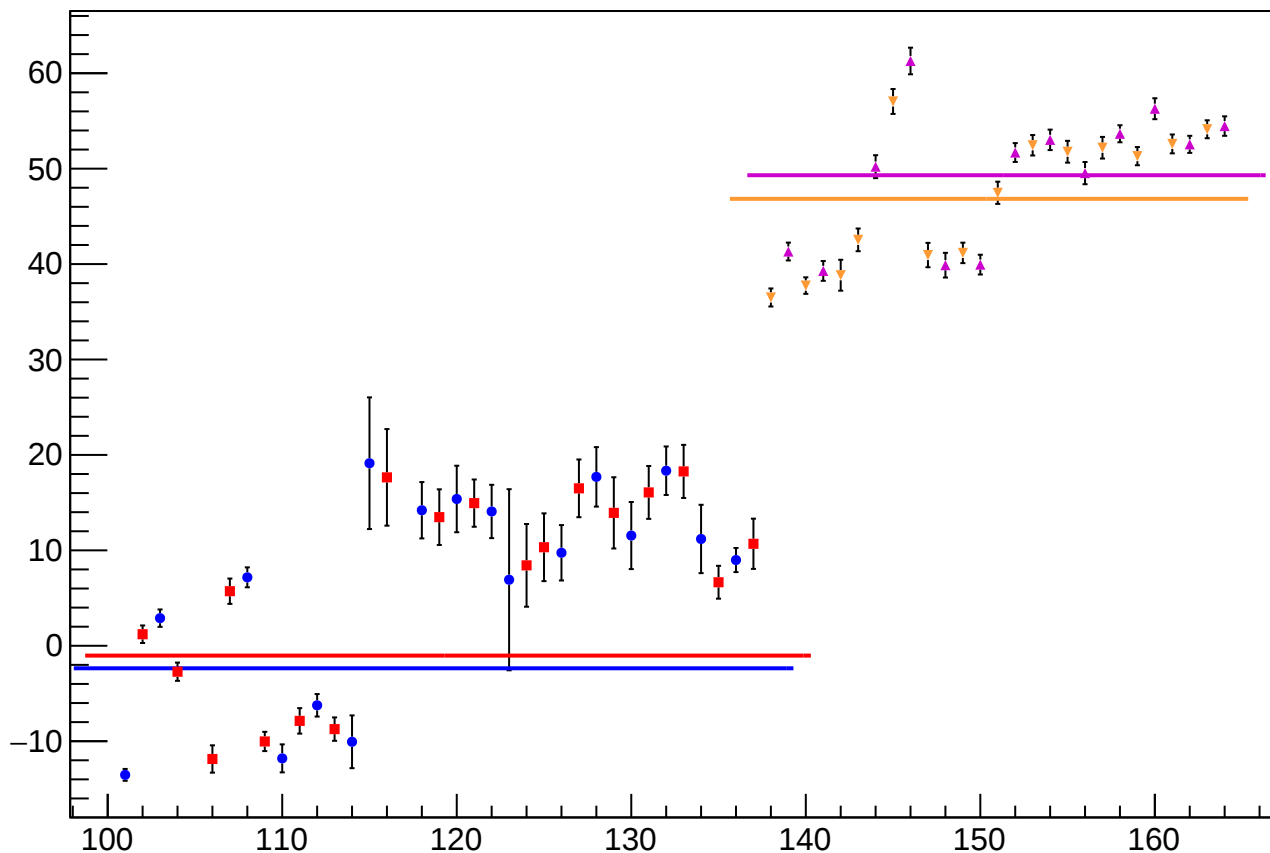
Left In: 43.420 $\pm$ 0.219  $\chi^2$ /NDF: 1430.4/12

+ sign 47.967 $\pm$ 0.148  $\chi^2$ /NDF: 3095.8/30

All: 48.053 $\pm$ 0.108  $\chi^2$ /NDF: 6352.3/61

- sign 48.150 $\pm$ 0.158  $\chi^2$ /NDF: 3255.8/30

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $46.837 \pm 0.288$   $\chi^2/\text{NDF}$ : 562.7/13

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

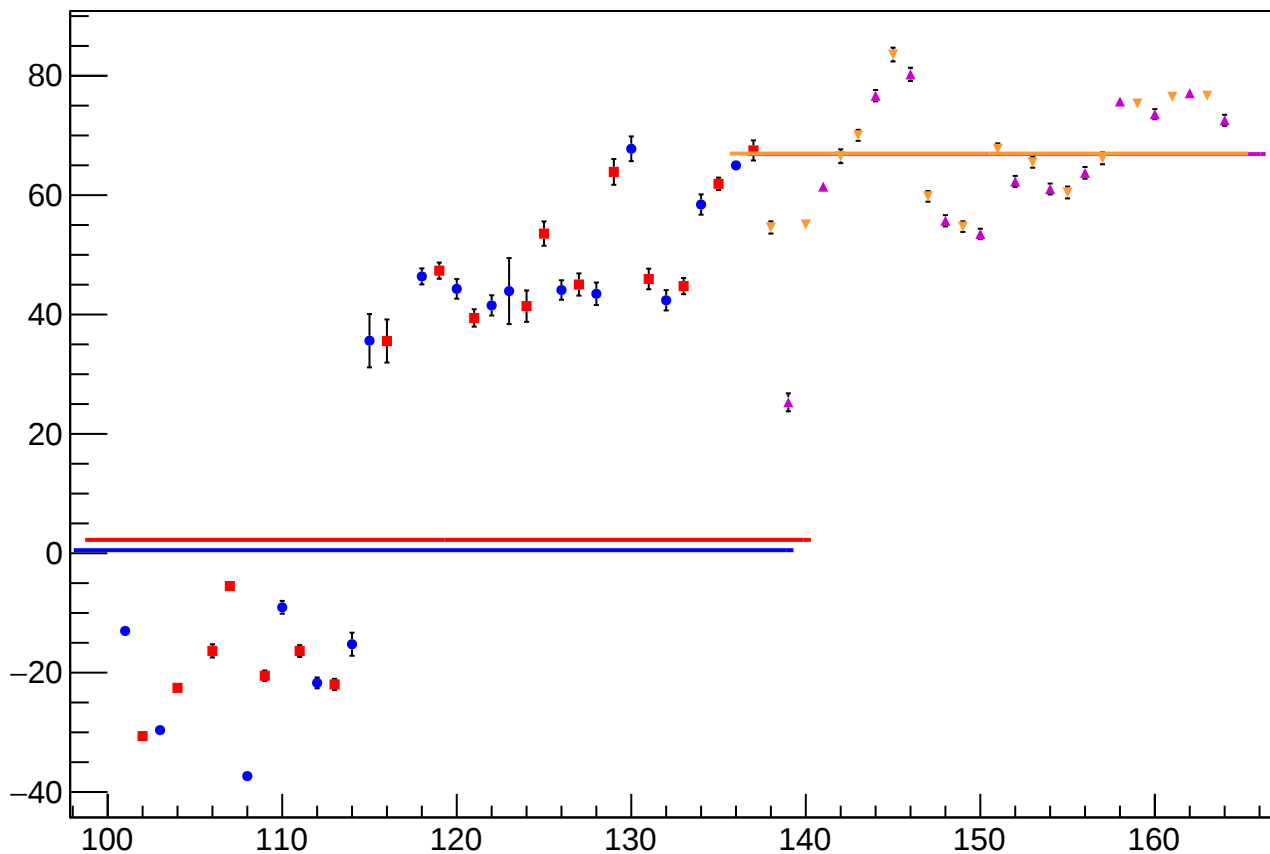
Left In:  $49.310 \pm 0.292$   $\chi^2/\text{NDF}$ : 496.2/12

+ sign  $27.871 \pm 0.226$   $\chi^2/\text{NDF}$ : 12617.2/30

All:  $29.226 \pm 0.162$   $\chi^2/\text{NDF}$ : 24722.1/61

- sign  $30.647 \pm 0.232$   $\chi^2/\text{NDF}$ : 12031.3/30

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.518 \pm 0.247$   $\chi^2/\text{NDF}$ : 18386.0/16

Left Out:  $66.970 \pm 0.241$   $\chi^2/\text{NDF}$ : 1311.2/13

Right Out:  $2.246 \pm 0.267$   $\chi^2/\text{NDF}$ : 15377.0/17

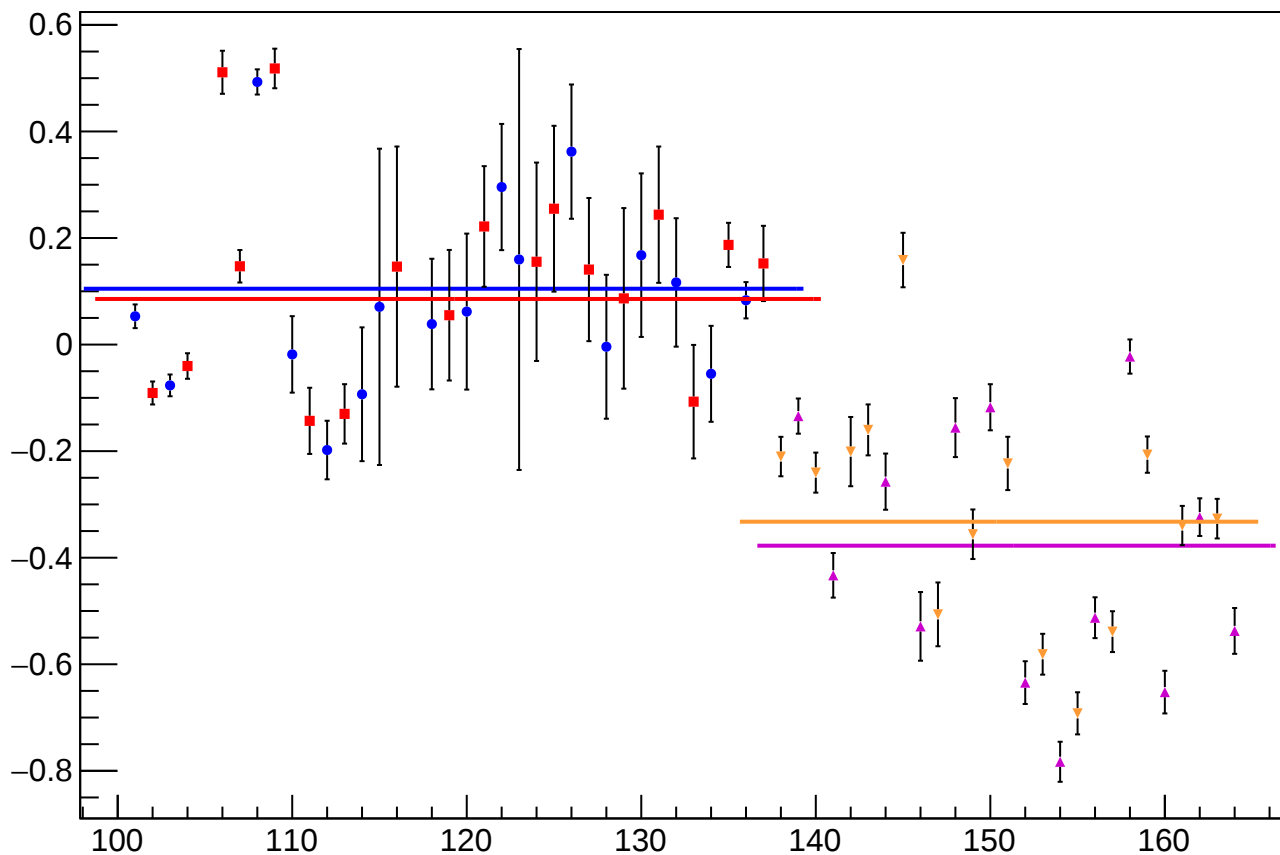
Left In:  $66.880 \pm 0.251$   $\chi^2/\text{NDF}$ : 1939.9/12

+ sign  $34.508 \pm 0.173$   $\chi^2/\text{NDF}$ : 56741.8/30

All:  $35.506 \pm 0.126$   $\chi^2/\text{NDF}$ : 105206.2/61

- sign  $36.626 \pm 0.183$   $\chi^2/\text{NDF}$ : 48393.4/30

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.332 \pm 0.011$   $\chi^2/\text{NDF}$ : 307.5/13

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}$ : 388.3/17

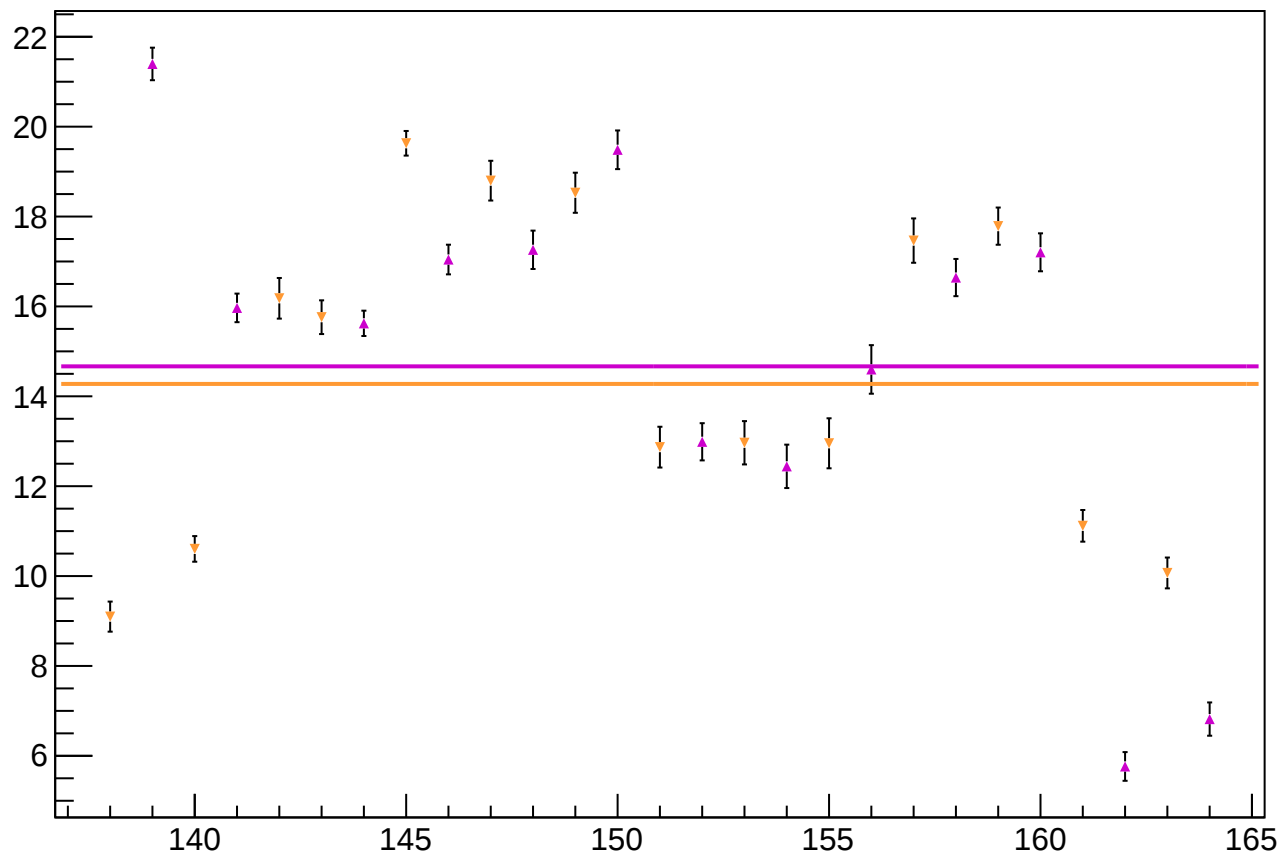
Left In:  $-0.377 \pm 0.011$   $\chi^2/\text{NDF}$ : 474.3/12

+ sign  $-0.110 \pm 0.008$   $\chi^2/\text{NDF}$ : 1481.1/30

All:  $-0.126 \pm 0.006$   $\chi^2/\text{NDF}$ : 3211.3/61

- sign  $-0.142 \pm 0.008$   $\chi^2/\text{NDF}$ : 1722.0/30

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



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

Left Out: 14.275+/-0.102  $\chi^2/\text{NDF}$ :1382.5/13

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

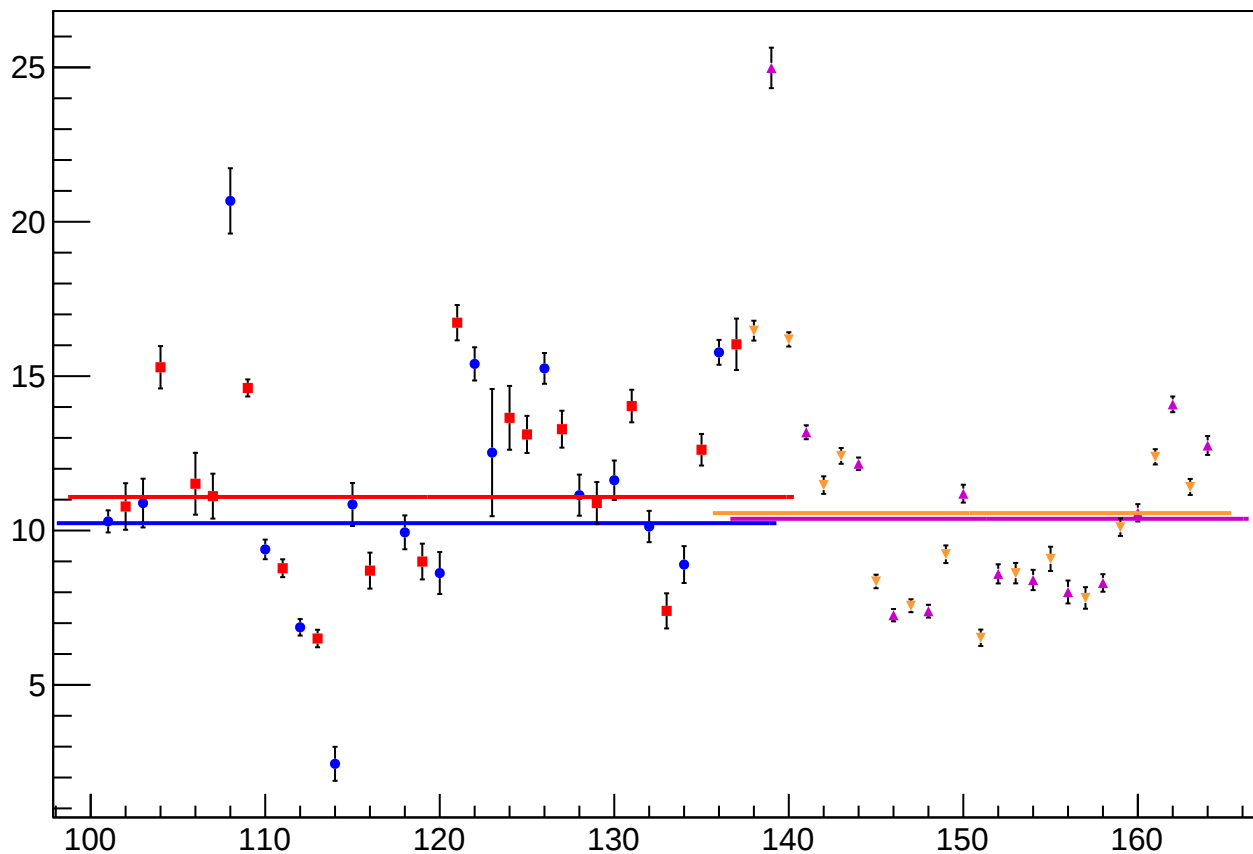
Left In: 14.666+/-0.104  $\chi^2/\text{NDF}$ :1910.9/12

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

All: 14.468+/-0.073  $\chi^2/\text{NDF}$ : 3300.6/26

- 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: 10.564 $\pm$ 0.072  $\chi^2$ /NDF:1728.9/13

Right Out: 11.087 $\pm$ 0.116  $\chi^2$ /NDF: 801.0/17

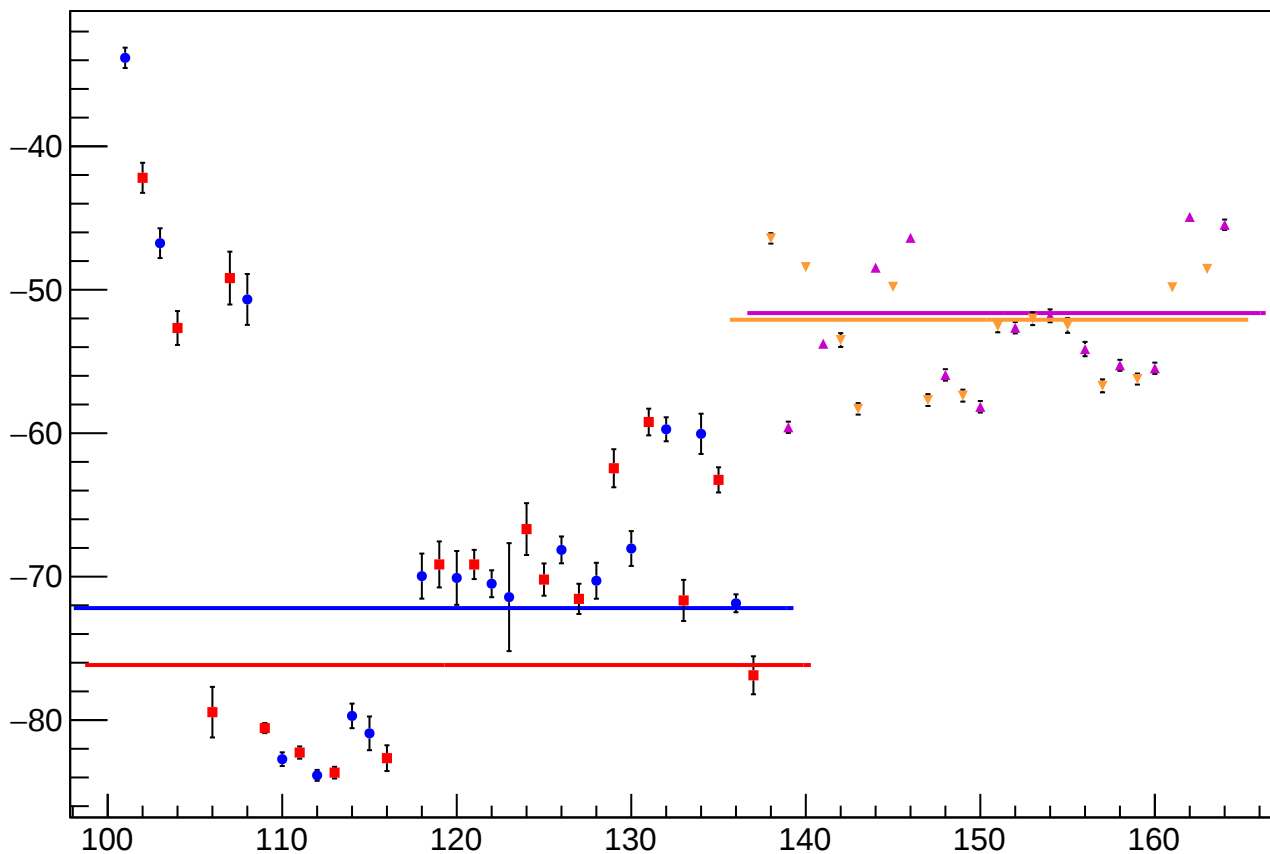
Left In: 10.380 $\pm$ 0.073  $\chi^2$ /NDF:1627.6/12

+ sign 10.477 $\pm$ 0.062  $\chi^2$ /NDF: 2601.8/30

All: 10.529 $\pm$ 0.044  $\chi^2$ /NDF: 5058.2/61

- sign 10.581 $\pm$ 0.062  $\chi^2$ /NDF: 2455.0/30

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}$ : 5563.0/16

Left Out:  $-52.091 \pm 0.102$   $\chi^2/\text{NDF}$ : 1426.7/13

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}$ : 3223.3/17

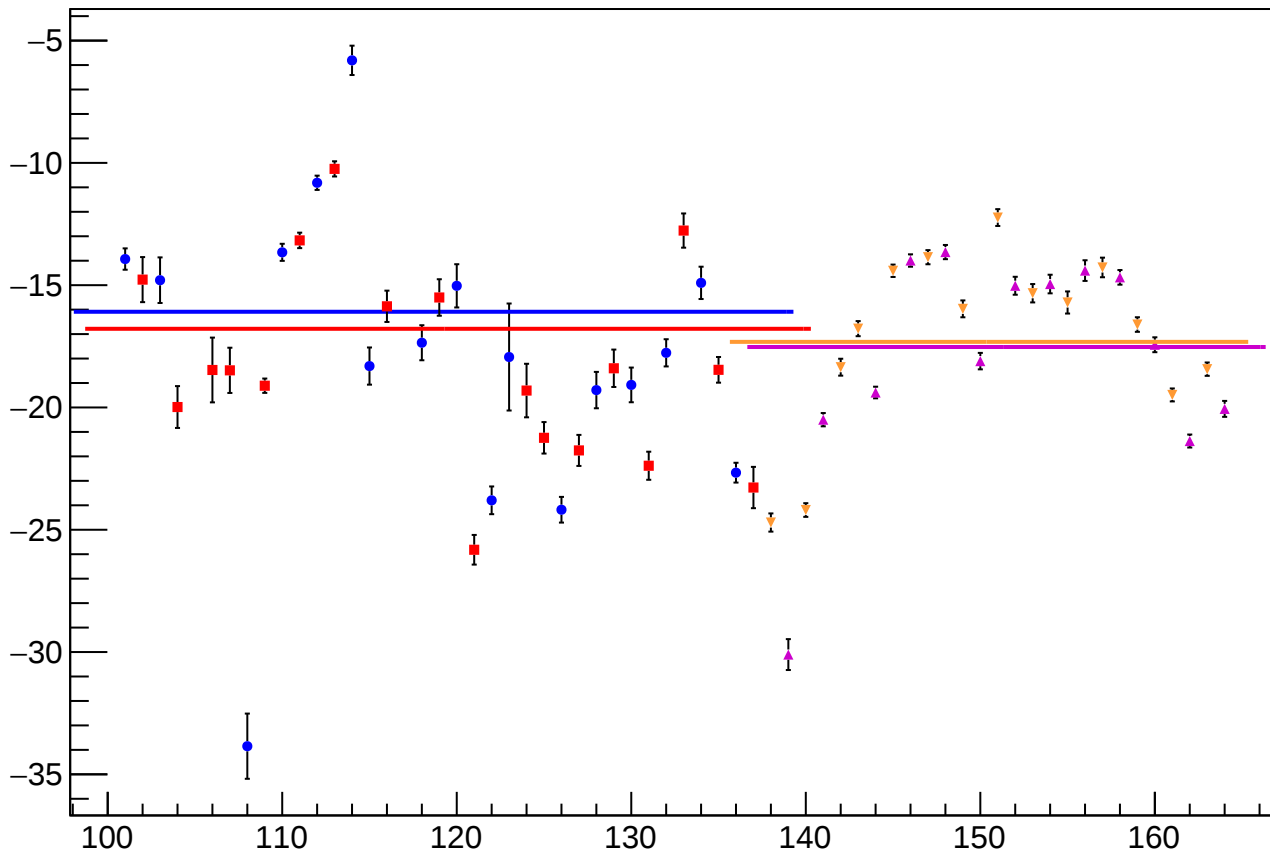
Left In:  $-51.624 \pm 0.102$   $\chi^2/\text{NDF}$ : 2202.1/12

+ sign  $-56.313 \pm 0.091$   $\chi^2/\text{NDF}$ : 15120.4/30

All:  $-56.945 \pm 0.064$   $\chi^2/\text{NDF}$ : 34541.9/61

- sign  $-57.553 \pm 0.089$   $\chi^2/\text{NDF}$ : 19326.4/30

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.087 \pm 0.132$   $\chi^2/\text{NDF}$ : 1621.7/16

Left Out:  $-17.317 \pm 0.084$   $\chi^2/\text{NDF}$ : 1705.0/13

Right Out:  $-16.783 \pm 0.128$   $\chi^2/\text{NDF}$ : 1204.4/17

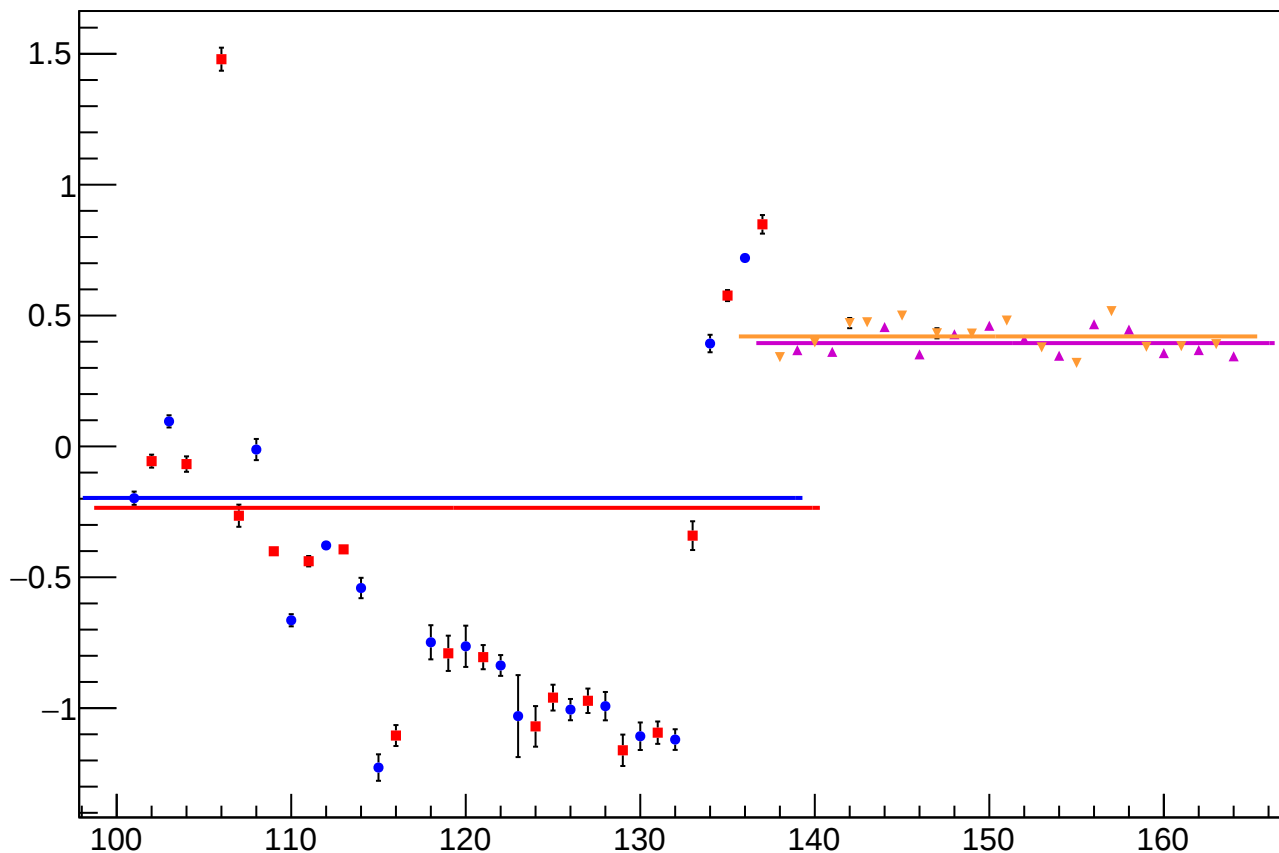
Left In:  $-17.528 \pm 0.086$   $\chi^2/\text{NDF}$ : 1460.9/12

+ sign  $-16.962 \pm 0.071$   $\chi^2/\text{NDF}$ : 3388.1/30

All:  $-17.129 \pm 0.050$   $\chi^2/\text{NDF}$ : 6087.8/61

- sign  $-17.297 \pm 0.071$   $\chi^2/\text{NDF}$ : 2688.7/30

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.420 \pm 0.004$   $\chi^2/\text{NDF}$ : 210.8/13

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

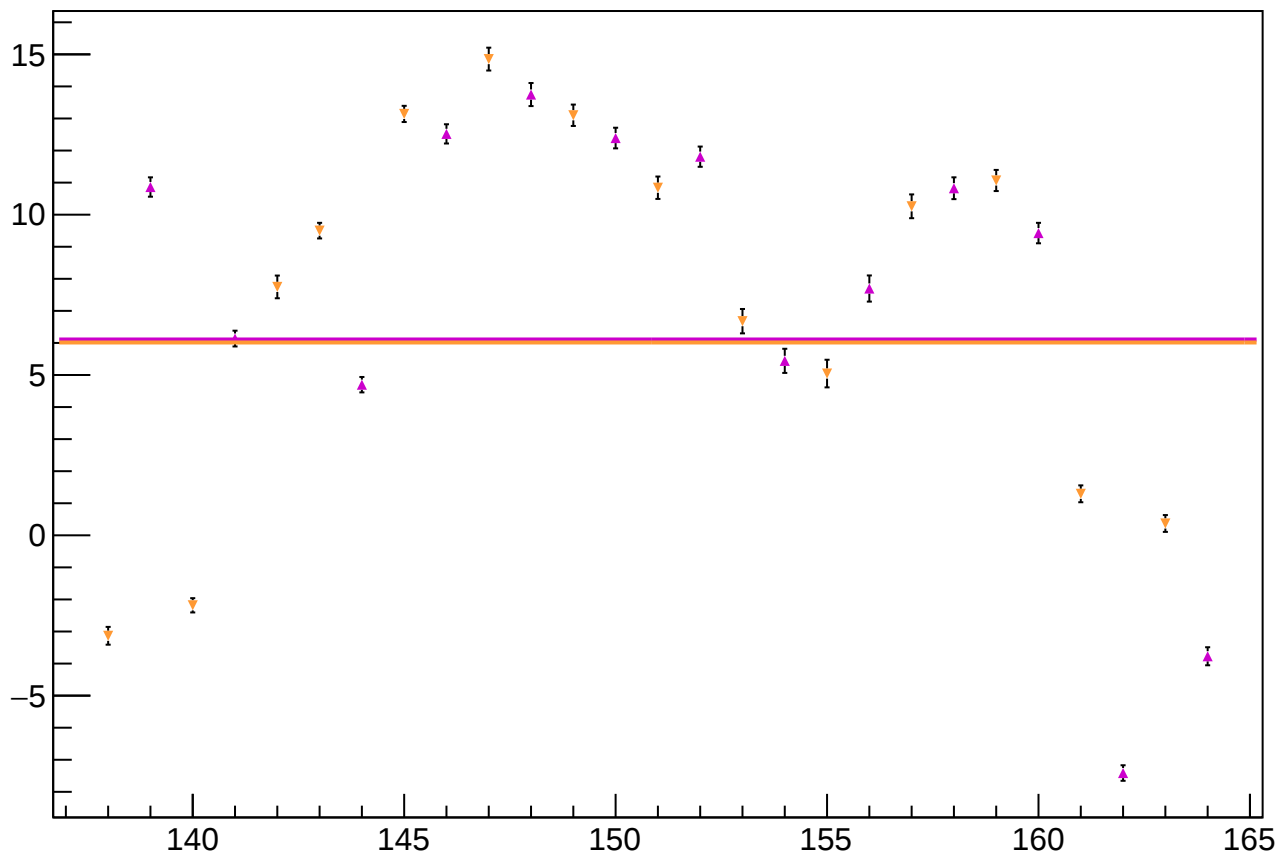
Left In:  $0.395 \pm 0.004$   $\chi^2/\text{NDF}$ : 126.1/12

+ sign  $0.284 \pm 0.004$   $\chi^2/\text{NDF}$ : 11745.4/30

All:  $0.263 \pm 0.003$   $\chi^2/\text{NDF}$ : 23958.8/61

- sign  $0.243 \pm 0.004$   $\chi^2/\text{NDF}$ : 12146.9/30

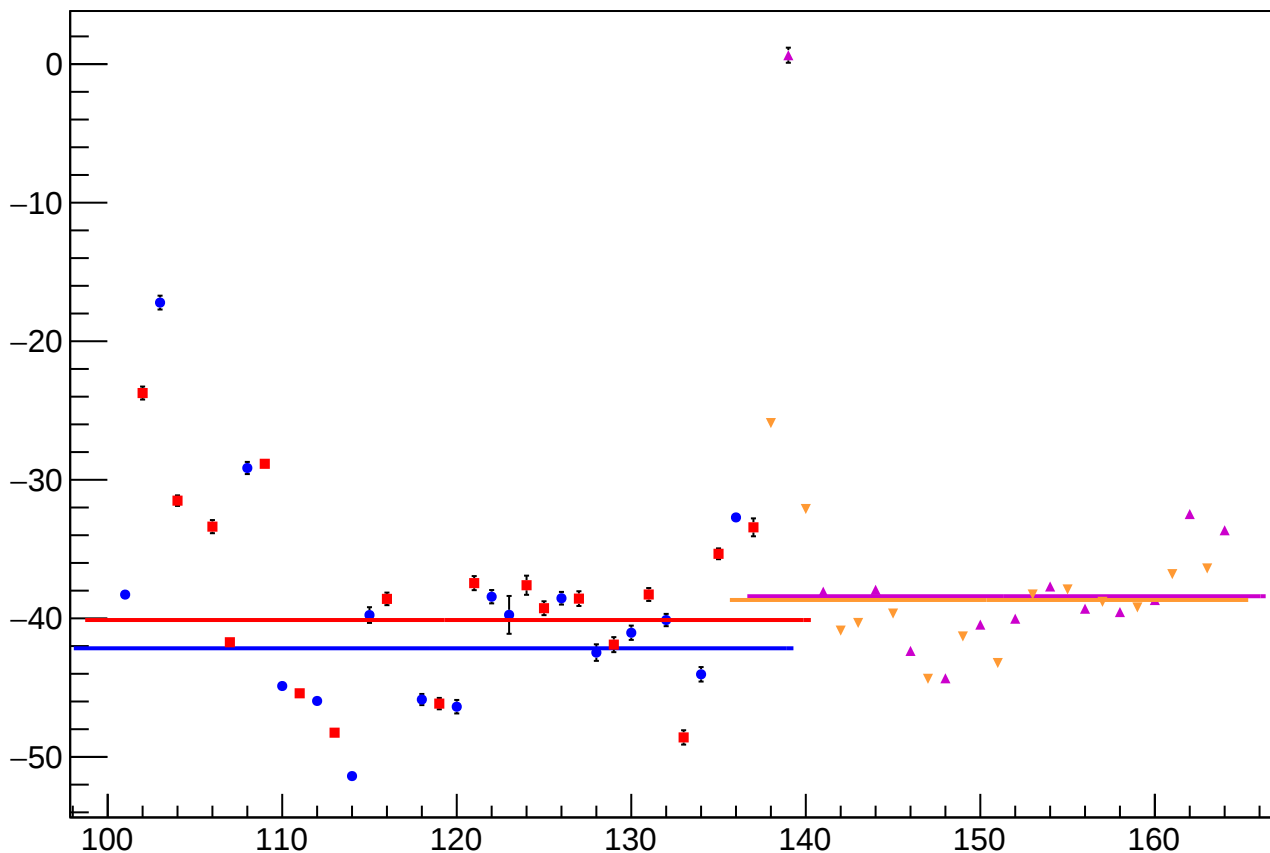
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 6.014 $\pm$ 0.080  $\chi^2$ /NDF:5884.0/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 6.108 $\pm$ 0.083  $\chi^2$ /NDF:6562.4/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 6.059 $\pm$ 0.058  $\chi^2$ /NDF: 12447.0/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-38.673 \pm 0.056$   $\chi^2/\text{NDF}$ : 5793.1/13

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}$ : 10884.6/17

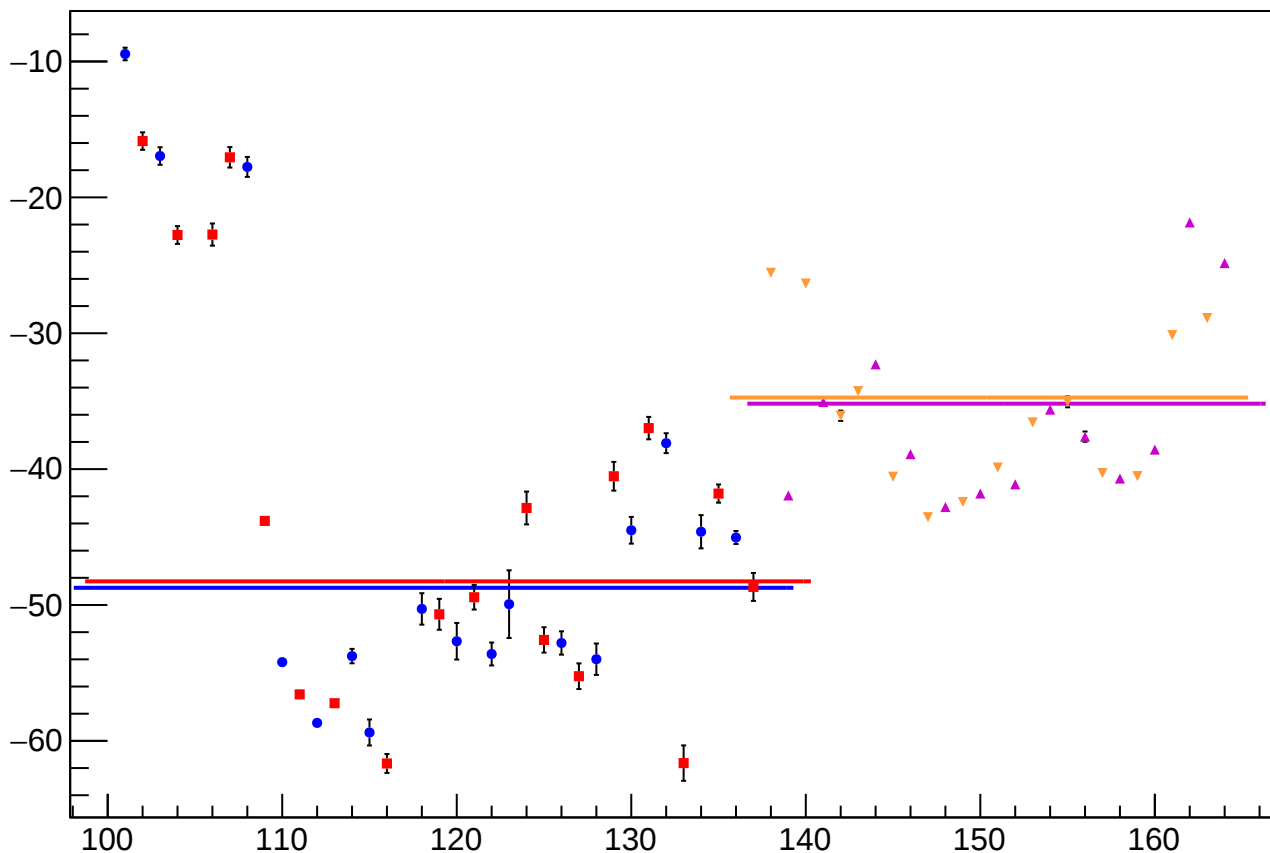
Left In:  $-38.403 \pm 0.059$   $\chi^2/\text{NDF}$ : 8271.4/12

+ sign  $-39.863 \pm 0.046$   $\chi^2/\text{NDF}$ : 13683.3/30

All:  $-39.479 \pm 0.032$   $\chi^2/\text{NDF}$ : 33316.8/61

- sign  $-39.087 \pm 0.046$   $\chi^2/\text{NDF}$ : 19489.9/30

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}: 14659.4/16$

Left Out:  $-34.731 \pm 0.080$   $\chi^2/\text{NDF}: 5733.4/13$

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}: 11091.7/17$

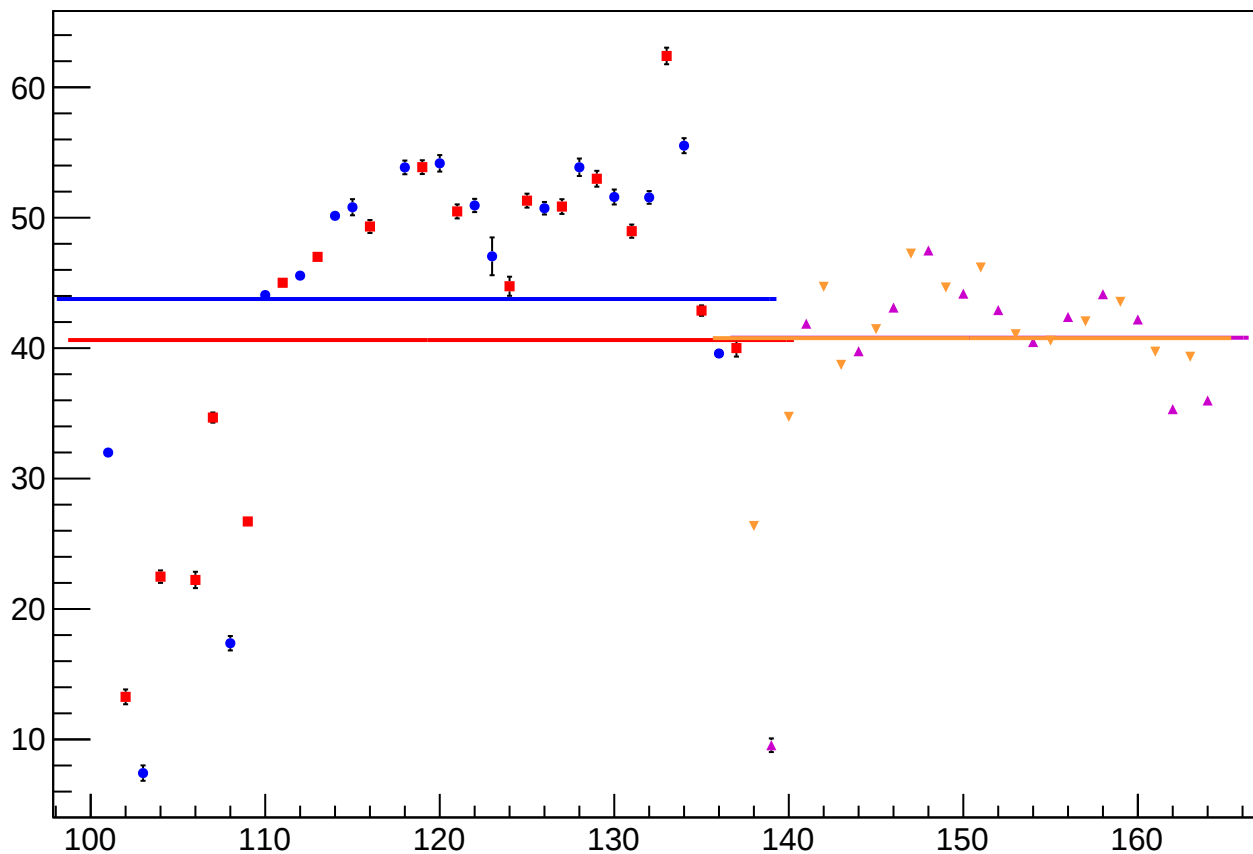
Left In:  $-35.182 \pm 0.082$   $\chi^2/\text{NDF}: 7269.6/12$

+ sign  $-38.789 \pm 0.067$   $\chi^2/\text{NDF}: 29349.3/30$

All:  $-39.396 \pm 0.047$   $\chi^2/\text{NDF}: 57268.8/61$

- sign  $-39.965 \pm 0.065$   $\chi^2/\text{NDF}: 27761.2/30$

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In:  $43.767 \pm 0.087$   $\chi^2/\text{NDF}: 10633.5/16$

Left Out:  $40.767 \pm 0.066$   $\chi^2/\text{NDF}: 4875.6/13$

Right Out:  $40.620 \pm 0.080$   $\chi^2/\text{NDF}: 16957.4/17$

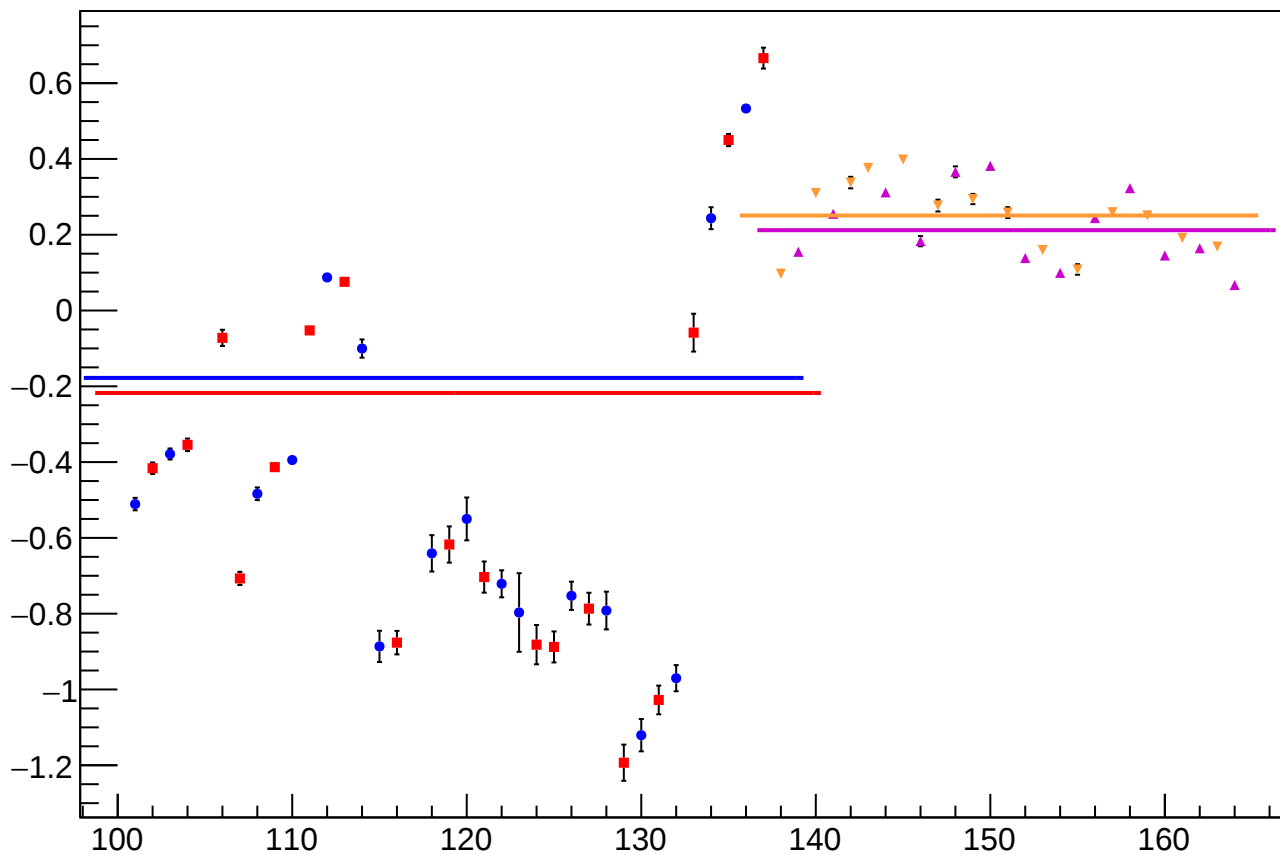
Left In:  $40.799 \pm 0.069$   $\chi^2/\text{NDF}: 6045.6/12$

+ sign  $41.859 \pm 0.052$   $\chi^2/\text{NDF}: 16268.5/30$

All:  $41.290 \pm 0.037$   $\chi^2/\text{NDF}: 39510.1/61$

- sign  $40.724 \pm 0.052$   $\chi^2/\text{NDF}: 23005.8/30$

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.251 \pm 0.003$   $\chi^2/\text{NDF}$ : 849.8/13

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

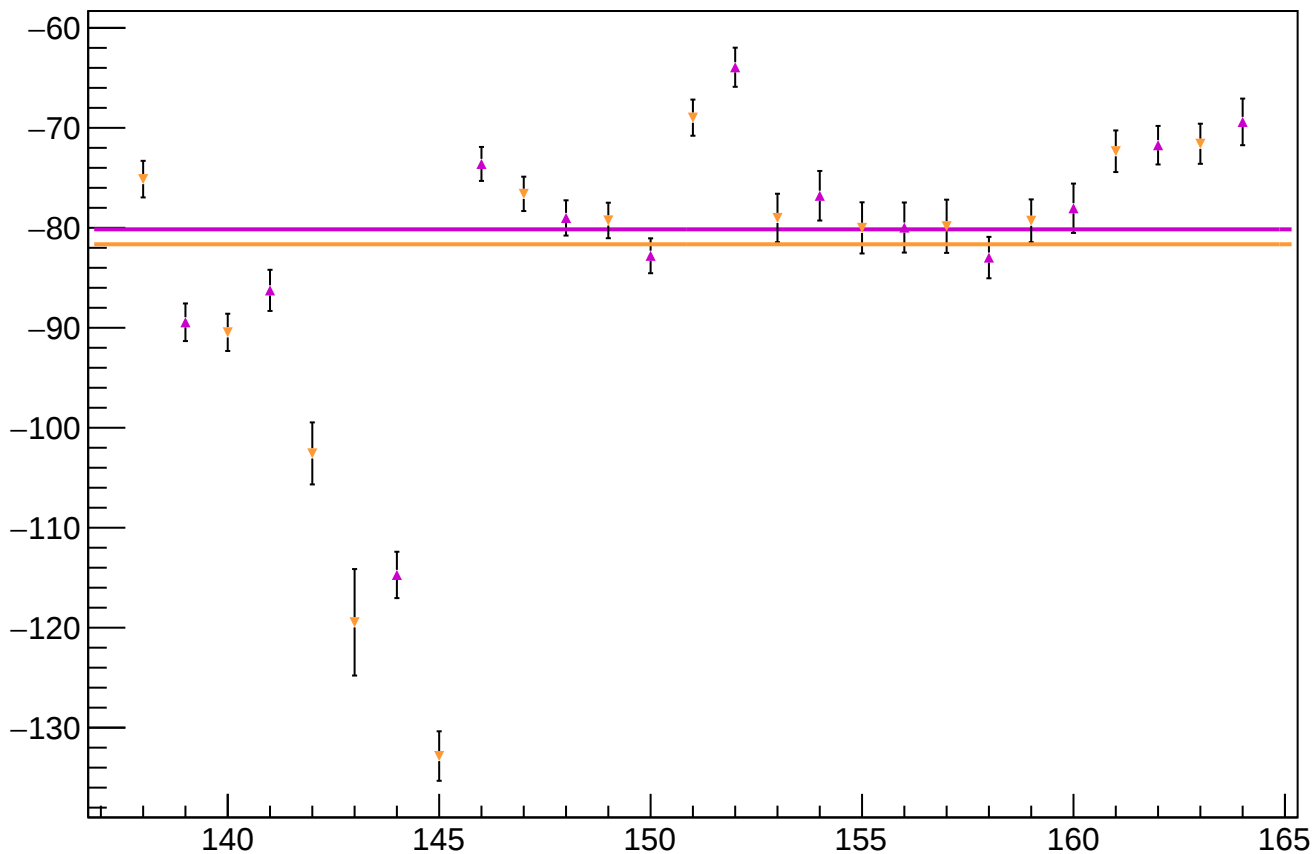
Left In:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 867.1/12

+ sign  $0.124 \pm 0.003$   $\chi^2/\text{NDF}$ : 13732.9/30

All:  $0.091 \pm 0.002$   $\chi^2/\text{NDF}$ : 28748.1/61

- sign  $0.058 \pm 0.003$   $\chi^2/\text{NDF}$ : 14696.7/30

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug



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

Left Out: -81.646+/-0.576  $\chi^2/\text{NDF}$ : 666.4/13

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

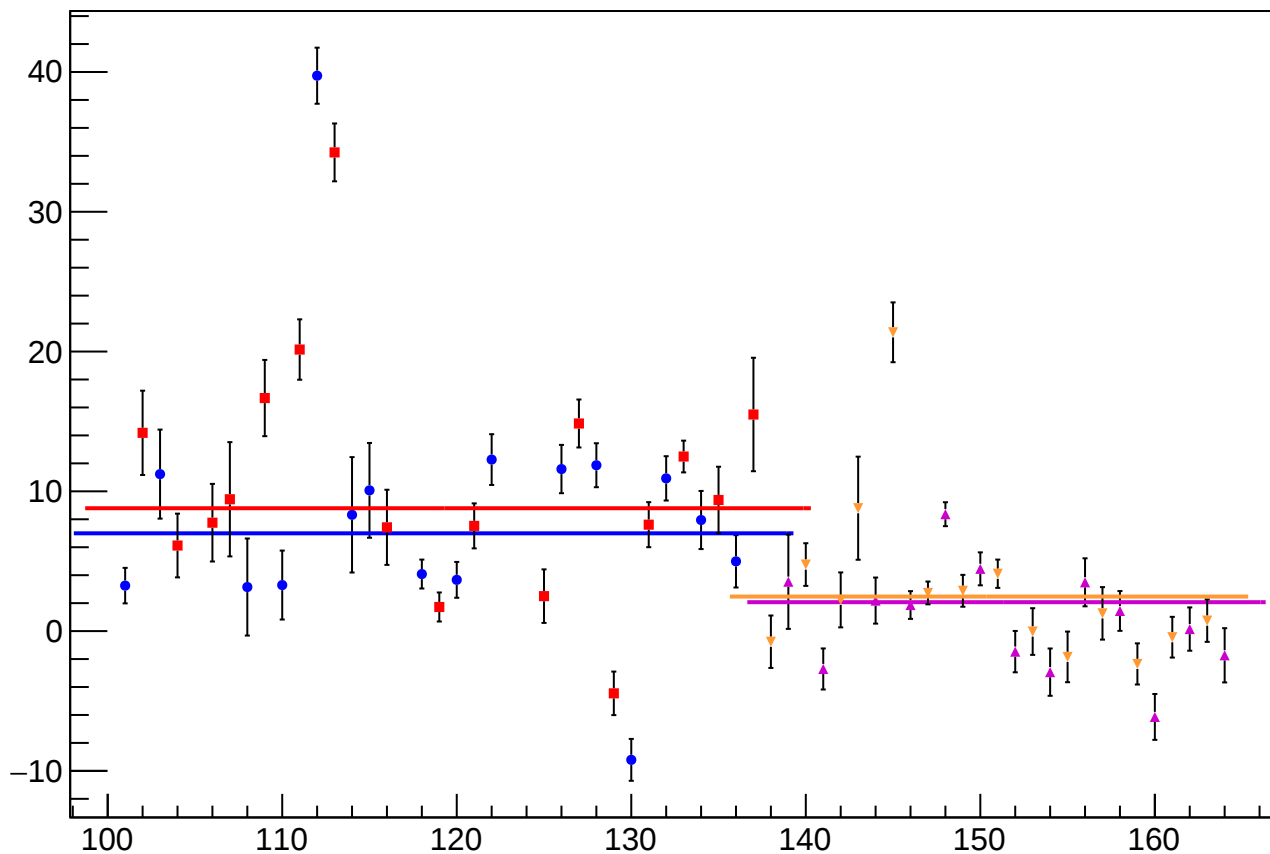
Left In: -80.153+/-0.565  $\chi^2/\text{NDF}$ : 386.6/12

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

All: -80.885+/-0.403  $\chi^2/\text{NDF}$ : 1056.4/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $2.471 \pm 0.383$   $\chi^2/\text{NDF}$ : 113.4/13

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}$ : 348.8/16

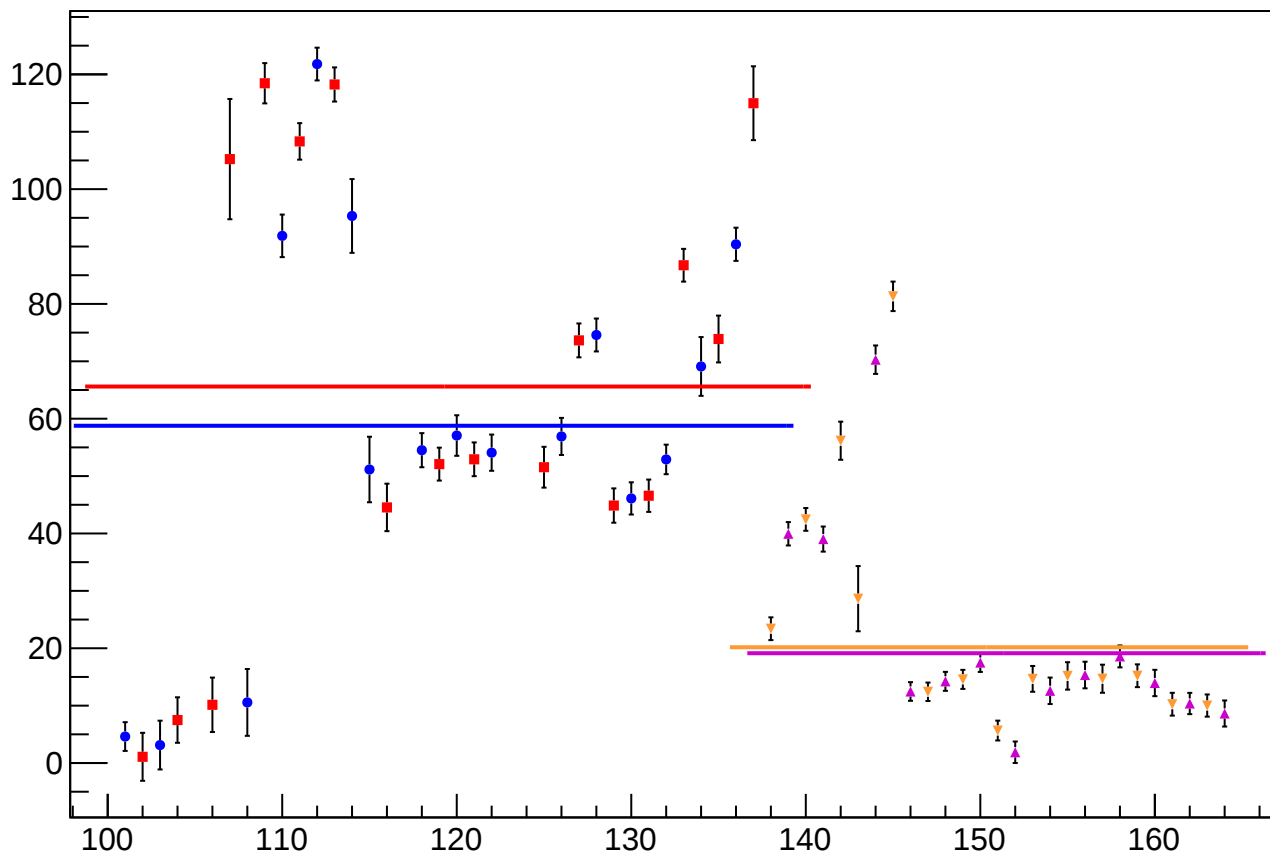
Left In:  $2.069 \pm 0.386$   $\chi^2/\text{NDF}$ : 114.7/12

+ sign  $4.450 \pm 0.287$   $\chi^2/\text{NDF}$ : 619.9/29

All:  $4.681 \pm 0.205$   $\chi^2/\text{NDF}$ : 1213.5/59

- sign  $4.921 \pm 0.293$   $\chi^2/\text{NDF}$ : 592.3/29

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In:  $58.770 \pm 0.833$   $\chi^2/\text{NDF}$ : 1493.3/15

Left Out:  $20.173 \pm 0.561$   $\chi^2/\text{NDF}$ : 994.5/13

Right Out:  $65.606 \pm 0.845$   $\chi^2/\text{NDF}$ : 1625.3/16

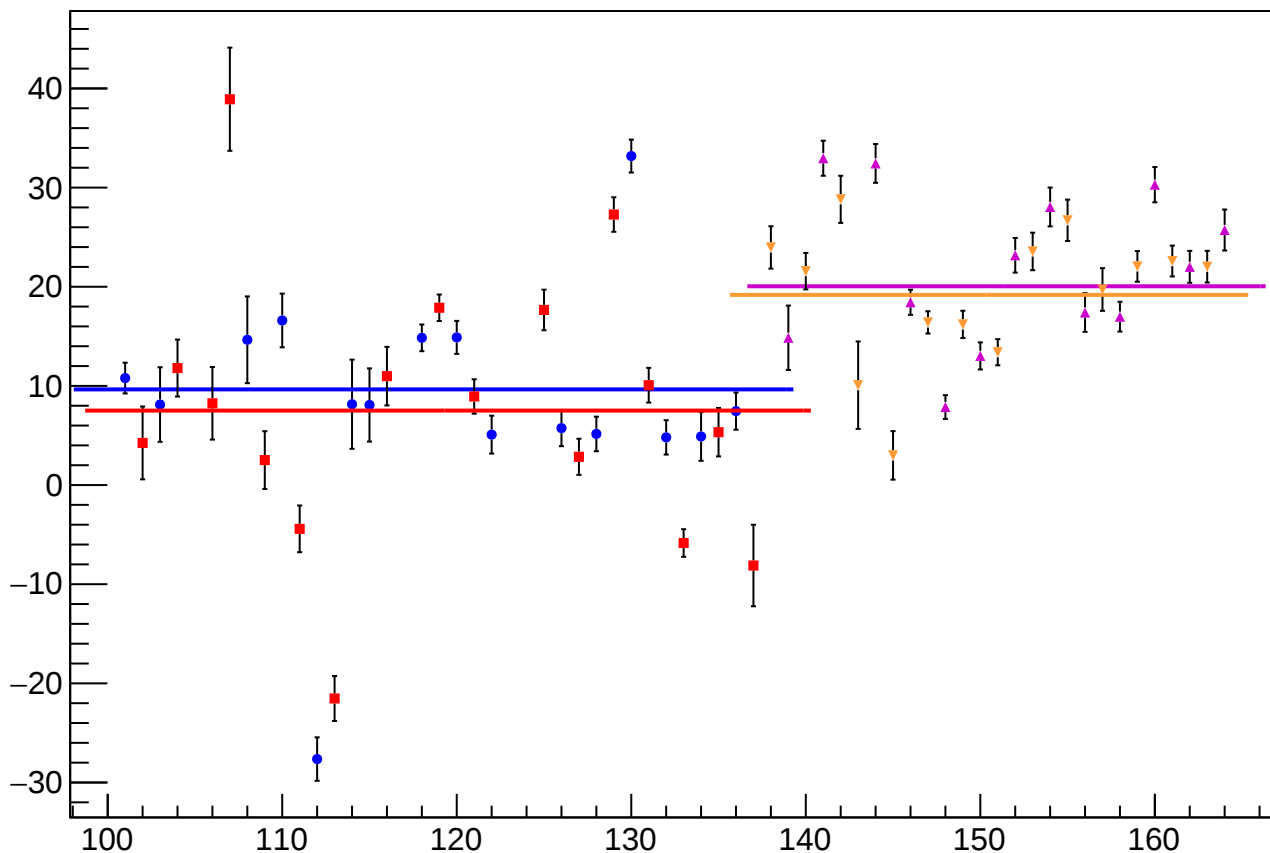
Left In:  $19.134 \pm 0.547$   $\chi^2/\text{NDF}$ : 783.8/12

+ sign  $32.207 \pm 0.465$   $\chi^2/\text{NDF}$ : 3965.6/29

All:  $32.544 \pm 0.327$   $\chi^2/\text{NDF}$ : 8507.6/59

- sign  $32.874 \pm 0.459$   $\chi^2/\text{NDF}$ : 4540.9/29

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}: 553.6/15$

Left Out:  $19.178 \pm 0.459$   $\chi^2/\text{NDF}: 131.1/13$

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}: 564.3/16$

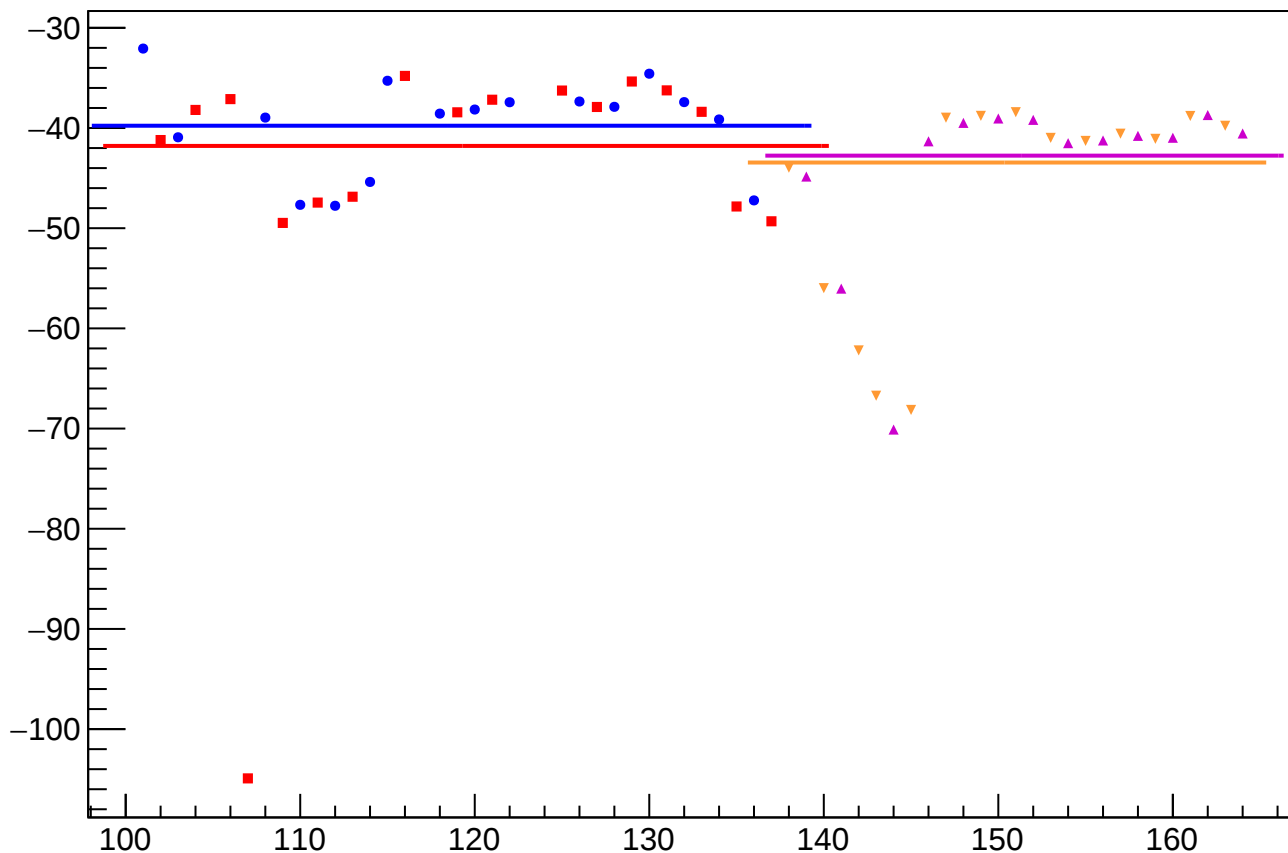
Left In:  $20.048 \pm 0.458$   $\chi^2/\text{NDF}: 295.8/12$

+ sign  $14.843 \pm 0.339$   $\chi^2/\text{NDF}: 881.0/29$

All:  $14.685 \pm 0.241$   $\chi^2/\text{NDF}: 2071.3/59$

- sign  $14.524 \pm 0.343$   $\chi^2/\text{NDF}: 1189.8/29$

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-43.444 \pm 0.022$   $\chi^2/\text{NDF}$ : 132507.3/13

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

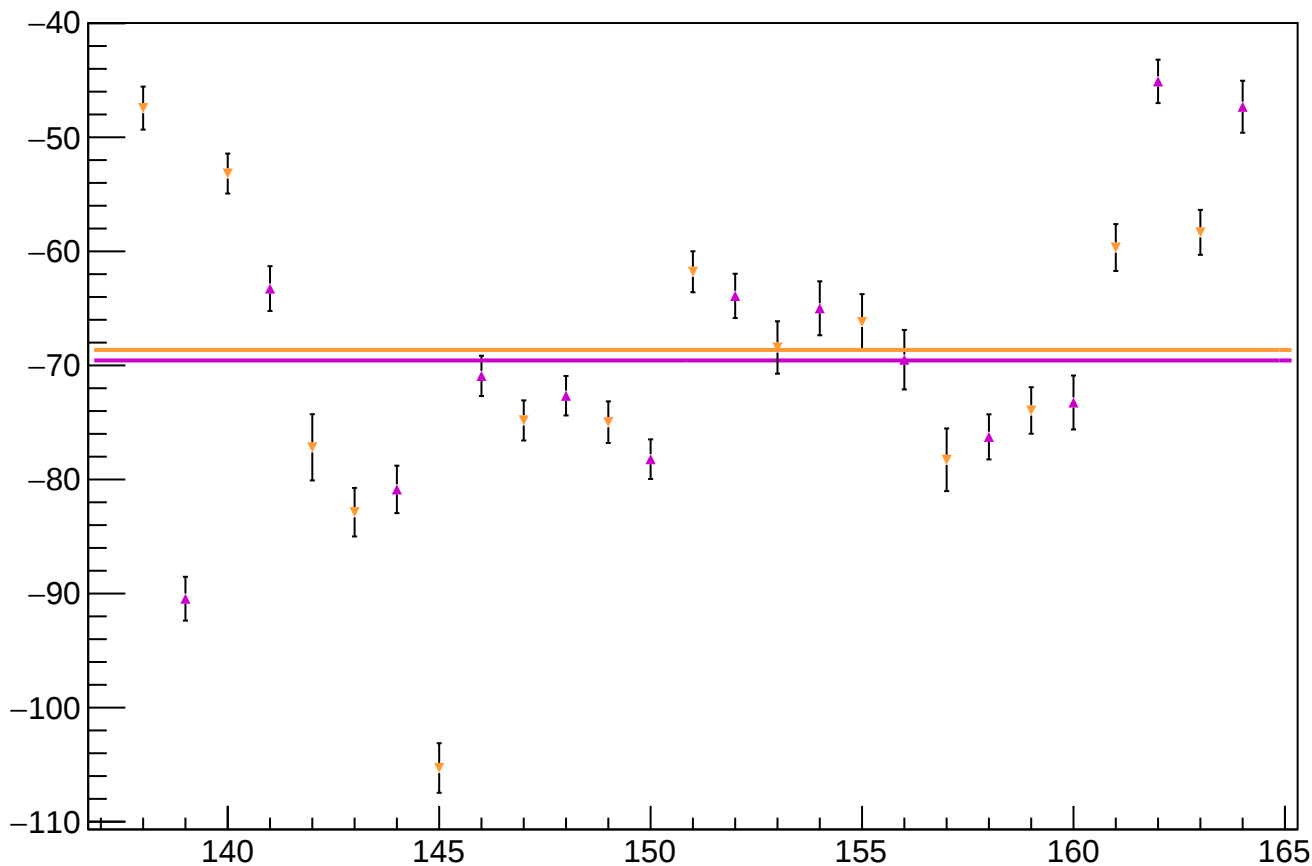
Left In:  $-42.757 \pm 0.022$   $\chi^2/\text{NDF}$ : 99676.3/12

+ sign  $-42.199 \pm 0.018$   $\chi^2/\text{NDF}$ : 167899.5/29

All:  $-42.324 \pm 0.013$   $\chi^2/\text{NDF}$ : 361326.3/59

- sign  $-42.445 \pm 0.018$   $\chi^2/\text{NDF}$ : 193332.6/29

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



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

Left Out: -68.643+/-0.549  $\chi^2/\text{NDF}$ : 647.5/13

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

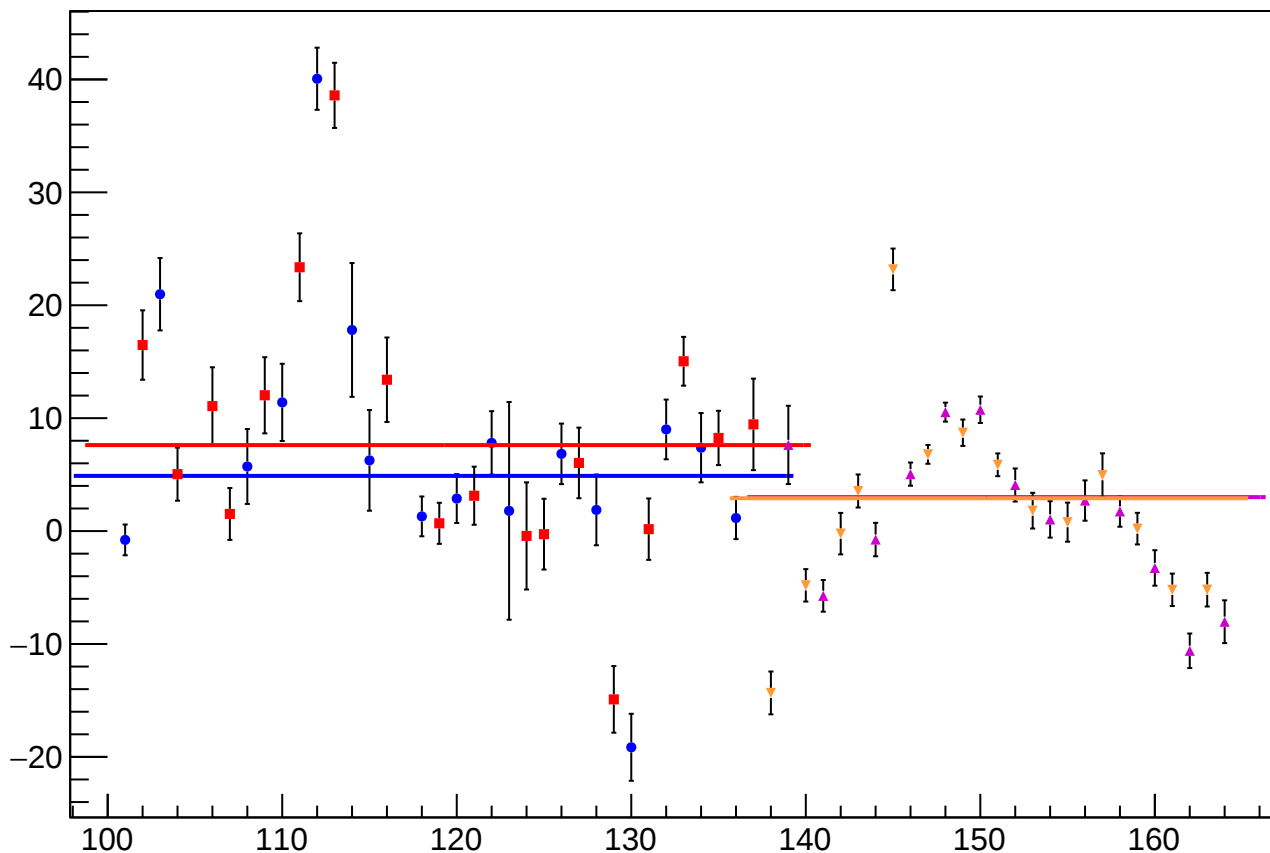
Left In: -69.564+/-0.555  $\chi^2/\text{NDF}$ : 473.3/12

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

All: -69.098+/-0.390  $\chi^2/\text{NDF}$ : 1122.3/26

- sign 0.000+/-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:  $2.907 \pm 0.367$   $\chi^2/\text{NDF}$ : 358.5/13

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

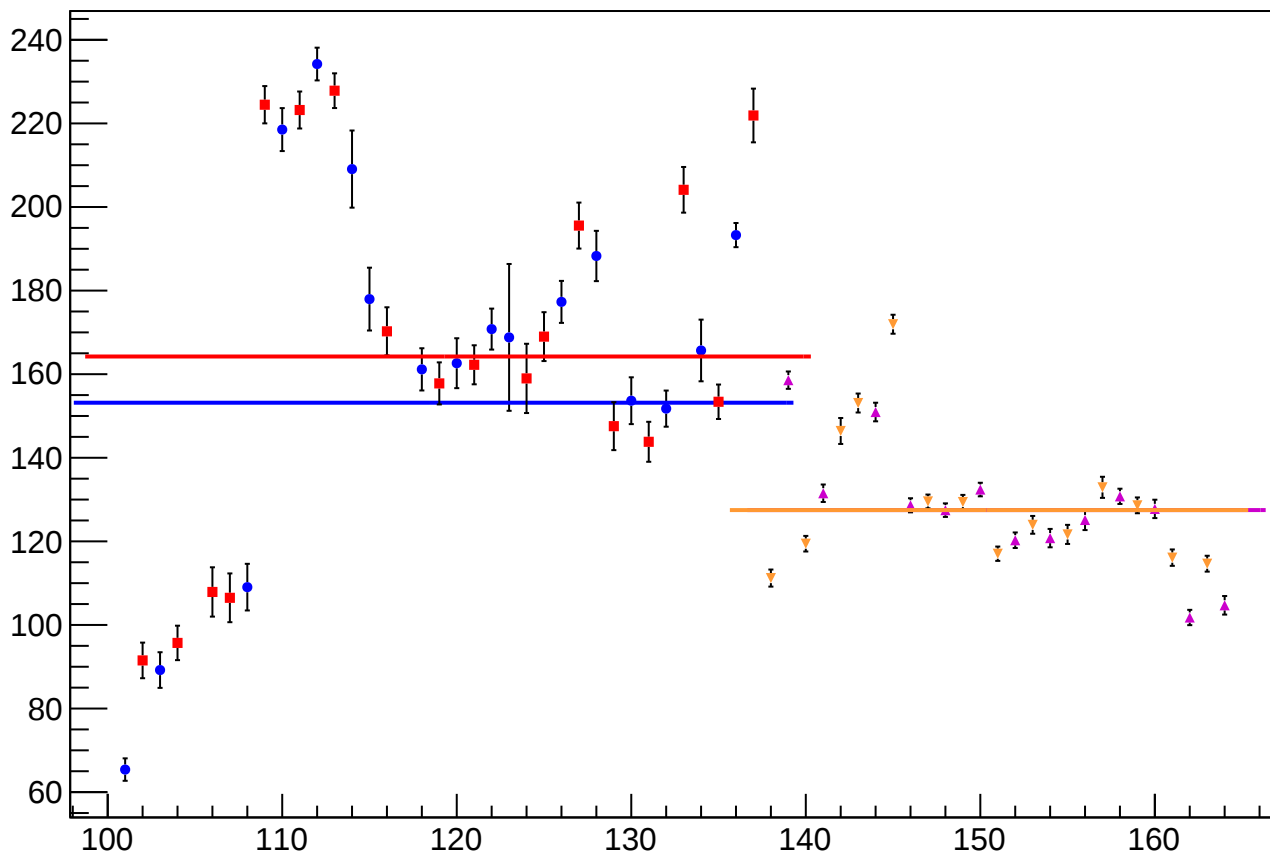
Left In:  $3.007 \pm 0.379$   $\chi^2/\text{NDF}$ : 306.9/12

+ sign  $3.419 \pm 0.316$   $\chi^2/\text{NDF}$ : 660.7/30

All:  $3.782 \pm 0.228$   $\chi^2/\text{NDF}$ : 1276.9/61

- sign  $4.171 \pm 0.328$   $\chi^2/\text{NDF}$ : 613.4/30

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.174 $\pm$ 1.146  $\chi^2$ /NDF: 2264.3/16

Left Out: 127.485 $\pm$ 0.538  $\chi^2$ /NDF: 763.7/13

Right Out: 164.232 $\pm$ 1.183  $\chi^2$ /NDF: 1554.8/17

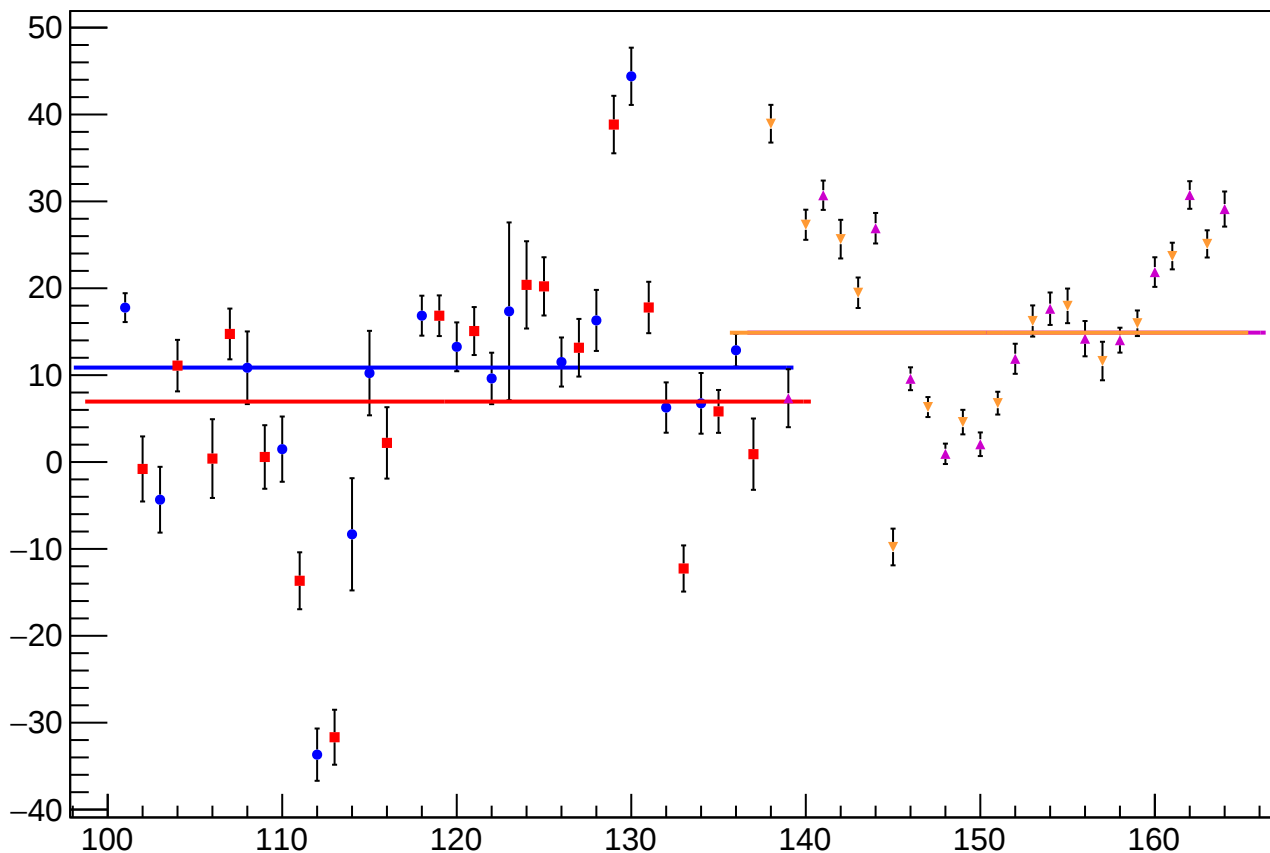
Left In: 127.487 $\pm$ 0.539  $\chi^2$ /NDF: 678.8/12

+ sign 132.117 $\pm$ 0.487  $\chi^2$ /NDF: 3439.6/30

All: 132.949 $\pm$ 0.345  $\chi^2$ /NDF: 6478.0/61

- sign 133.793 $\pm$ 0.490  $\chi^2$ /NDF: 3032.6/30

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In:  $10.872 \pm 0.714$   $\chi^2/\text{NDF}$ : 386.7/16

Left Out:  $14.884 \pm 0.439$   $\chi^2/\text{NDF}$ : 568.7/13

Right Out:  $6.958 \pm 0.749$   $\chi^2/\text{NDF}$ : 422.3/17

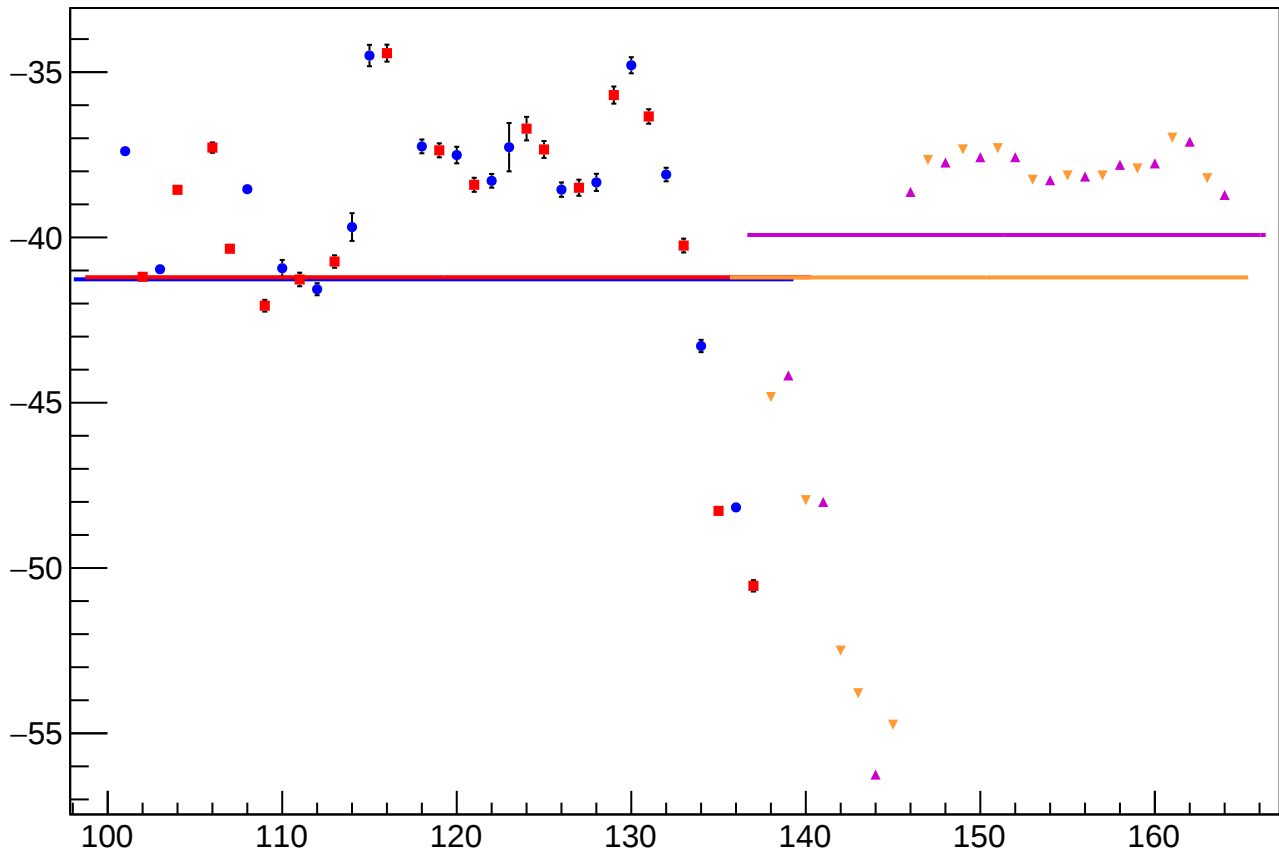
Left In:  $14.893 \pm 0.450$   $\chi^2/\text{NDF}$ : 557.7/12

+ sign  $13.785 \pm 0.374$   $\chi^2/\text{NDF}$ : 978.3/30

All:  $13.303 \pm 0.268$   $\chi^2/\text{NDF}$ : 2044.2/61

- sign  $12.790 \pm 0.386$   $\chi^2/\text{NDF}$ : 1062.4/30

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}: 12581.8/16$

Left Out:  $-41.210 \pm 0.021$   $\chi^2/\text{NDF}: 77991.0/13$

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}: 12008.6/17$

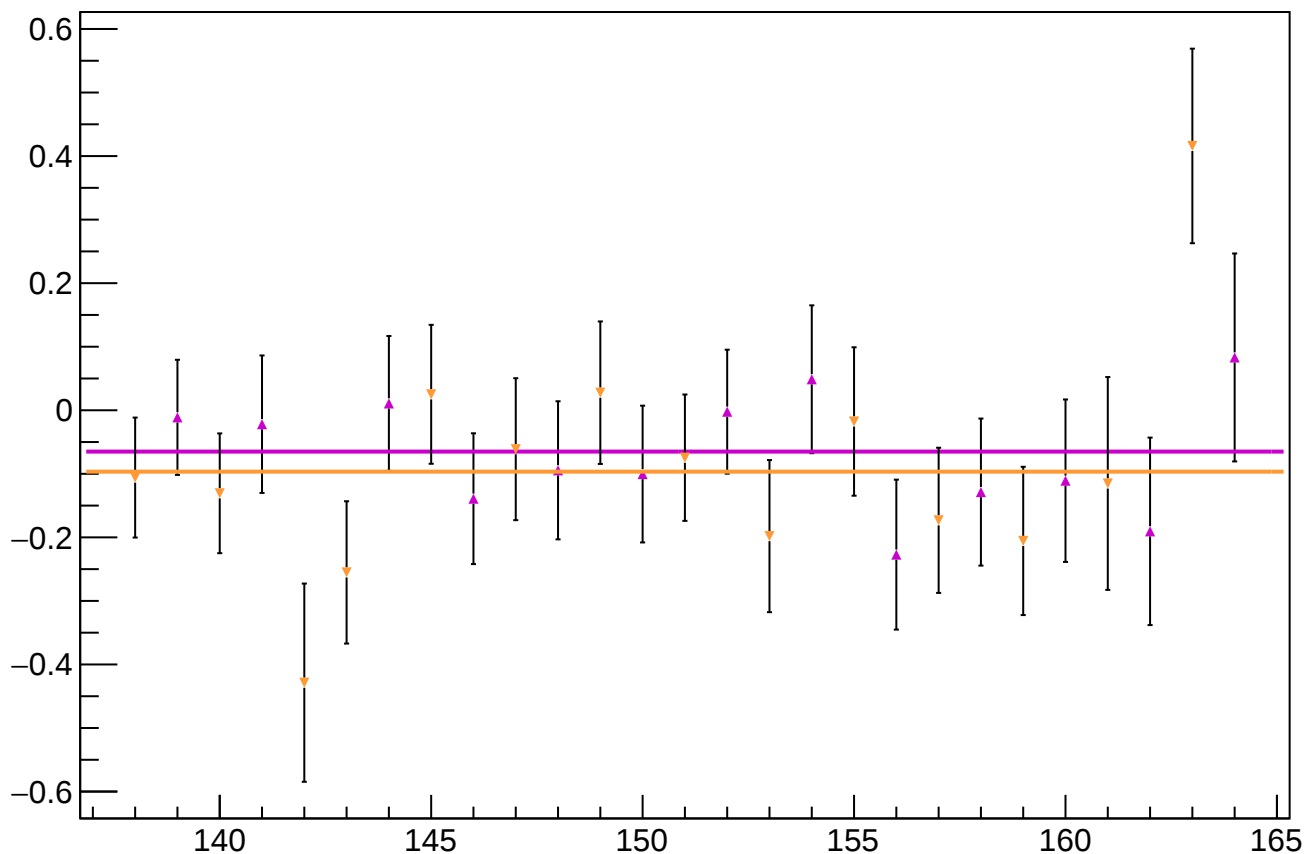
Left In:  $-39.926 \pm 0.021$   $\chi^2/\text{NDF}: 48438.6/12$

+ sign  $-41.224 \pm 0.019$   $\chi^2/\text{NDF}: 90574.4/30$

All:  $-40.722 \pm 0.013$   $\chi^2/\text{NDF}: 153297.4/61$

- sign  $-40.221 \pm 0.019$   $\chi^2/\text{NDF}: 61279.8/30$

# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



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

Left Out: -0.097 $\pm$ 0.031  $\chi^2$ /NDF: 23.0/13

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

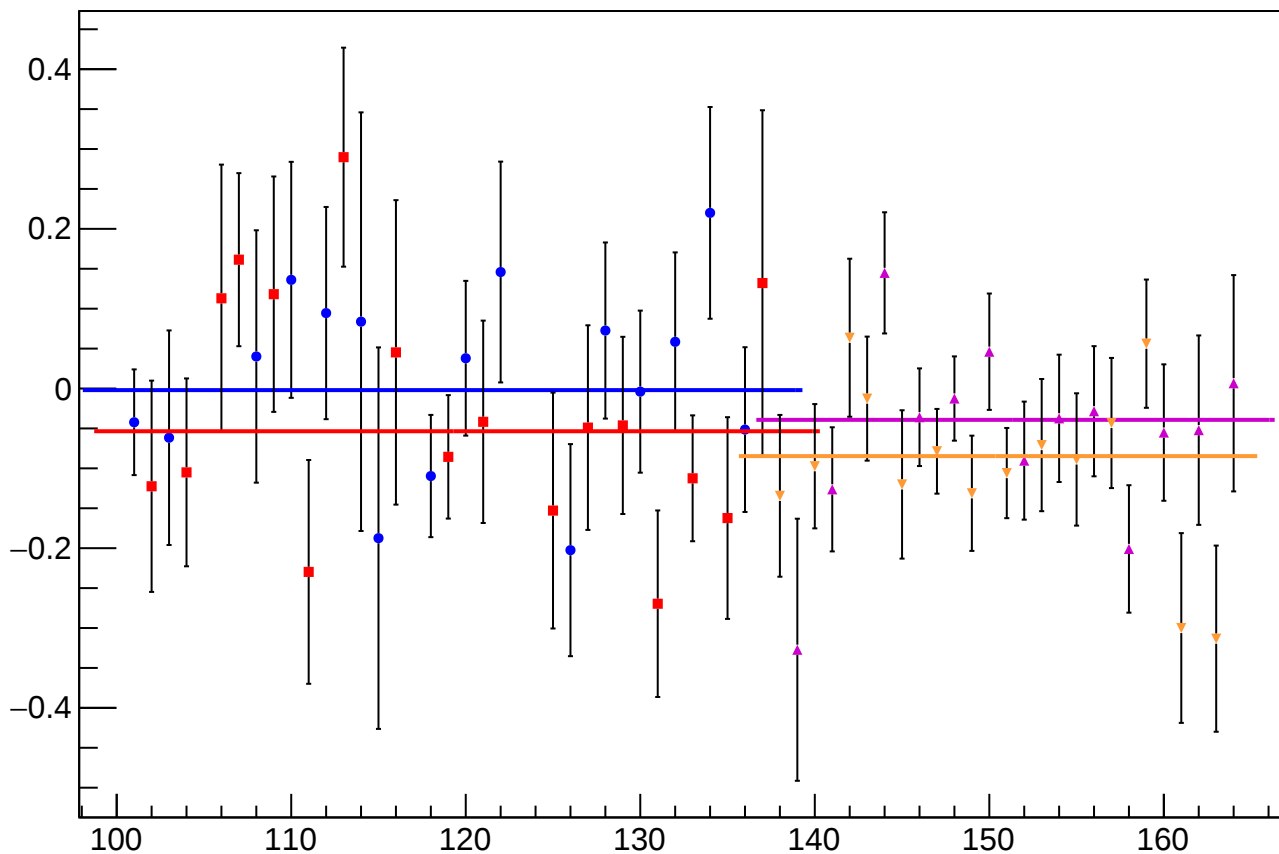
Left In: -0.065 $\pm$ 0.031  $\chi^2$ /NDF: 7.0/12

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

All: -0.081 $\pm$ 0.022  $\chi^2$ /NDF: 30.5/26

- 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:  $-0.085 \pm 0.021$   $\chi^2/\text{NDF}$ : 14.6/13

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

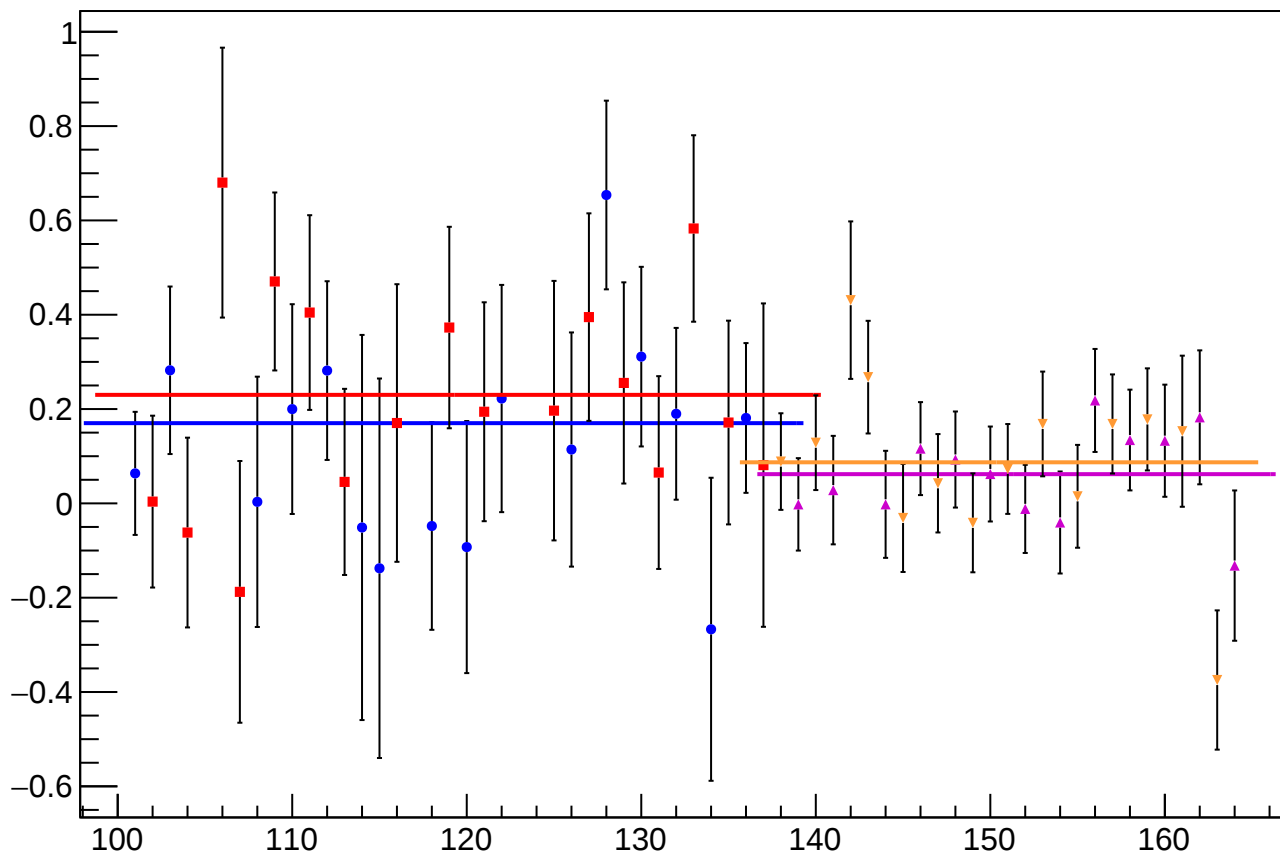
Left In:  $-0.039 \pm 0.022$   $\chi^2/\text{NDF}$ : 16.6/12

+ sign  $-0.055 \pm 0.017$   $\chi^2/\text{NDF}$ : 32.2/29

All:  $-0.050 \pm 0.012$   $\chi^2/\text{NDF}$ : 70.1/59

- sign  $-0.044 \pm 0.018$   $\chi^2/\text{NDF}$ : 37.7/29

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}: 13.0/15$

Left Out:  $0.087 \pm 0.030$   $\chi^2/\text{NDF}: 21.7/13$

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}: 16.8/16$

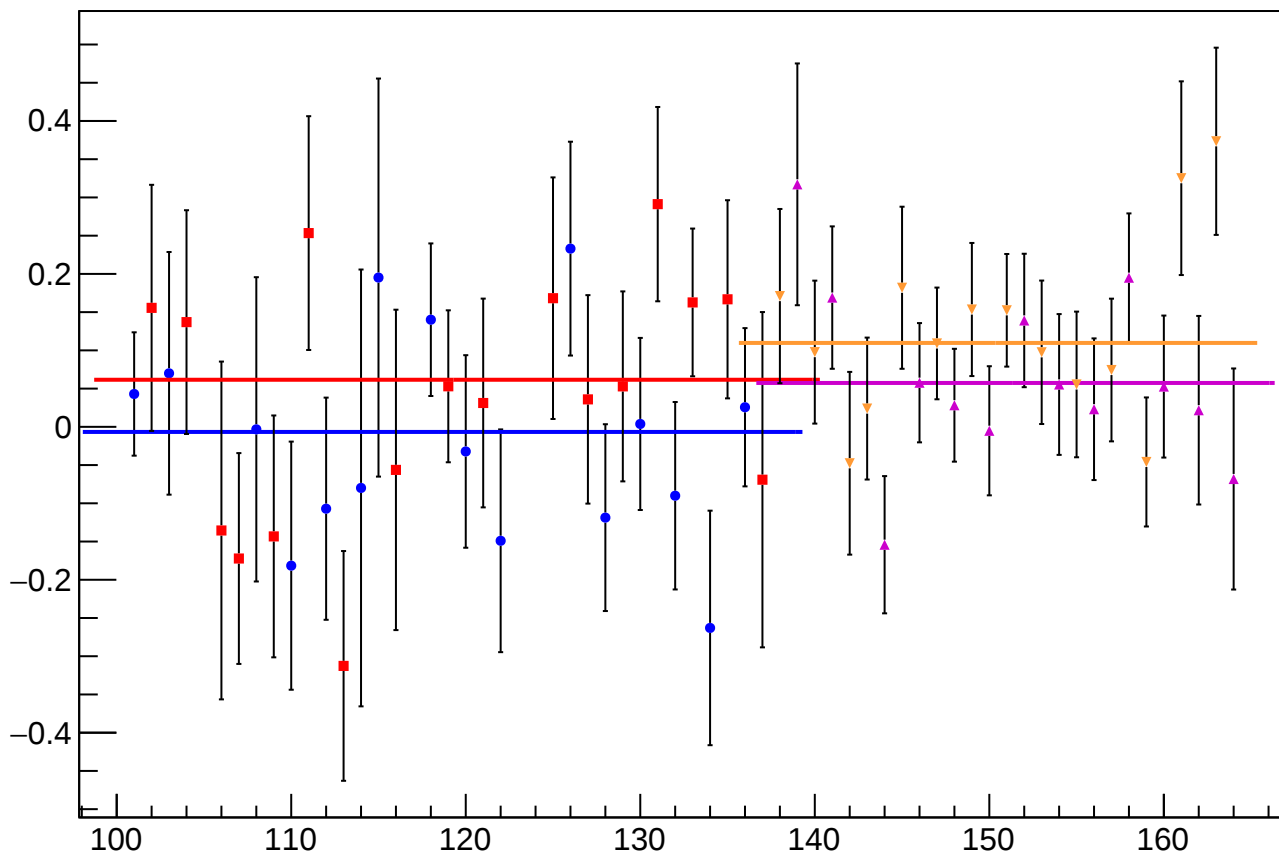
Left In:  $0.062 \pm 0.030$   $\chi^2/\text{NDF}: 7.8/12$

+ sign  $0.108 \pm 0.026$   $\chi^2/\text{NDF}: 36.6/29$

All:  $0.105 \pm 0.019$   $\chi^2/\text{NDF}: 68.6/59$

- sign  $0.102 \pm 0.026$   $\chi^2/\text{NDF}: 32.0/29$

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.110 \pm 0.025$   $\chi^2/\text{NDF}$ : 15.4/13

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

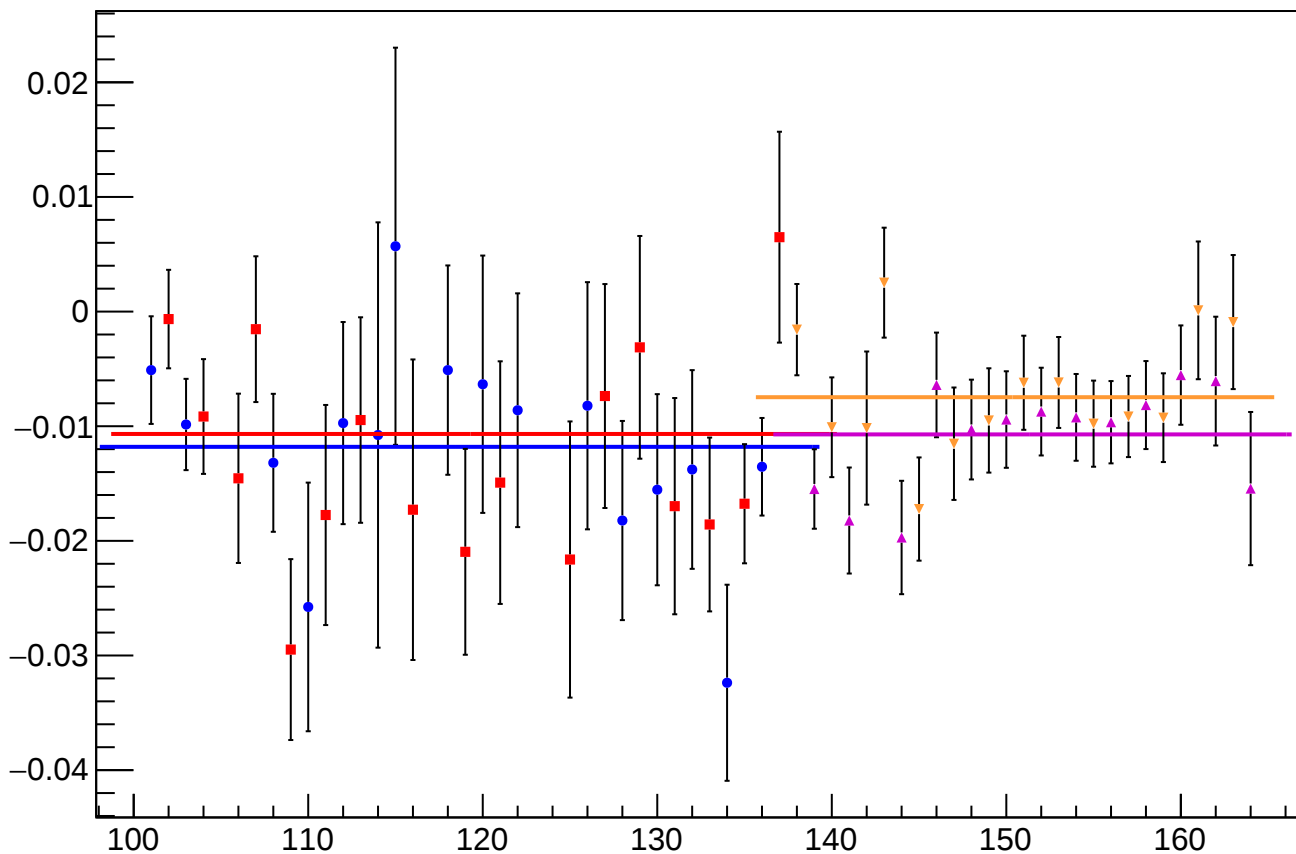
Left In:  $0.057 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.9/12

+ sign  $0.066 \pm 0.020$   $\chi^2/\text{NDF}$ : 36.6/29

All:  $0.063 \pm 0.014$   $\chi^2/\text{NDF}$ : 71.6/59

- sign  $0.059 \pm 0.021$   $\chi^2/\text{NDF}$ : 34.9/29

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.007 \pm 0.001$   $\chi^2/\text{NDF}$ : 16.5/13

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

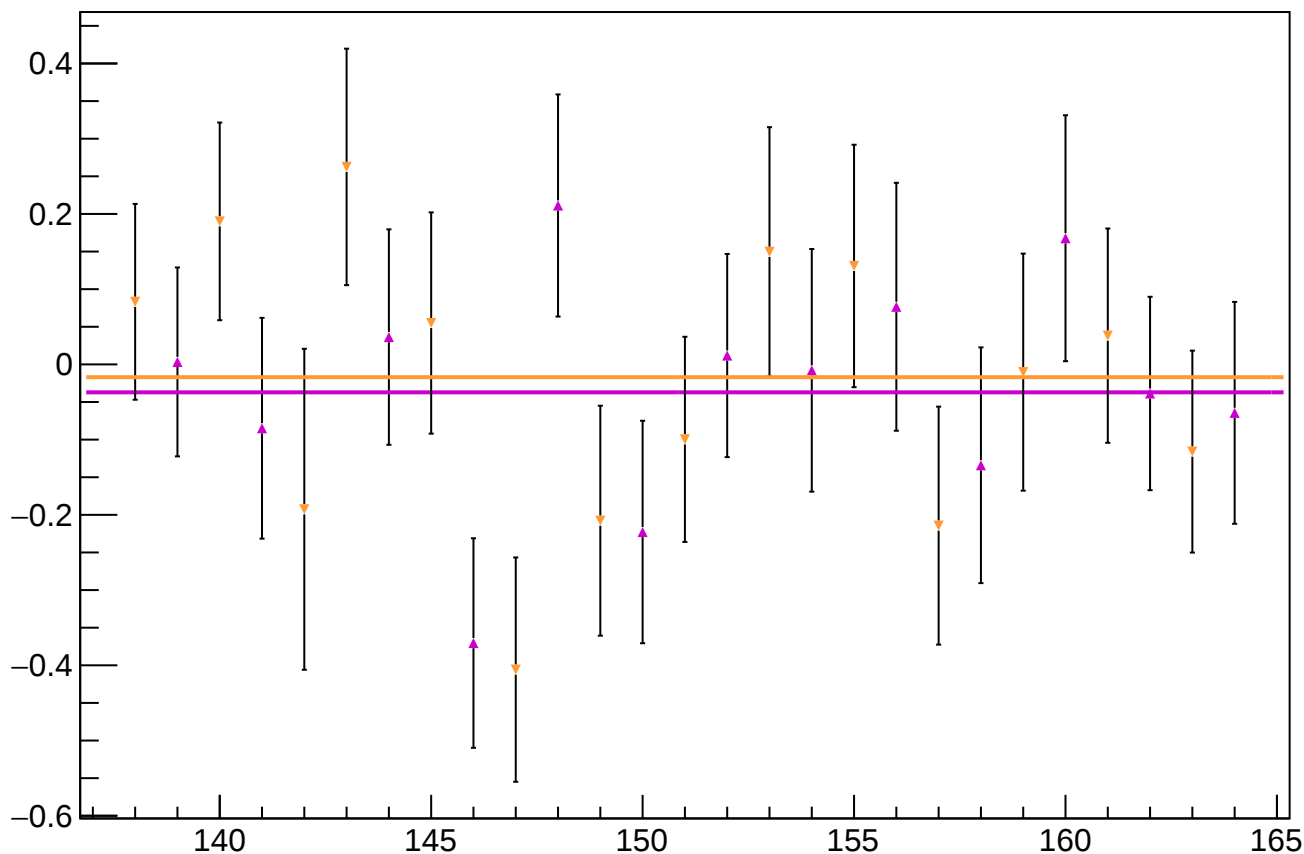
Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 12.4/12

+ sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 33.4/29

All:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 71.5/59

- sign  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.2/29

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



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

Left Out: -0.017 $\pm$ 0.040  $\chi^2$ /NDF: 20.0/13

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

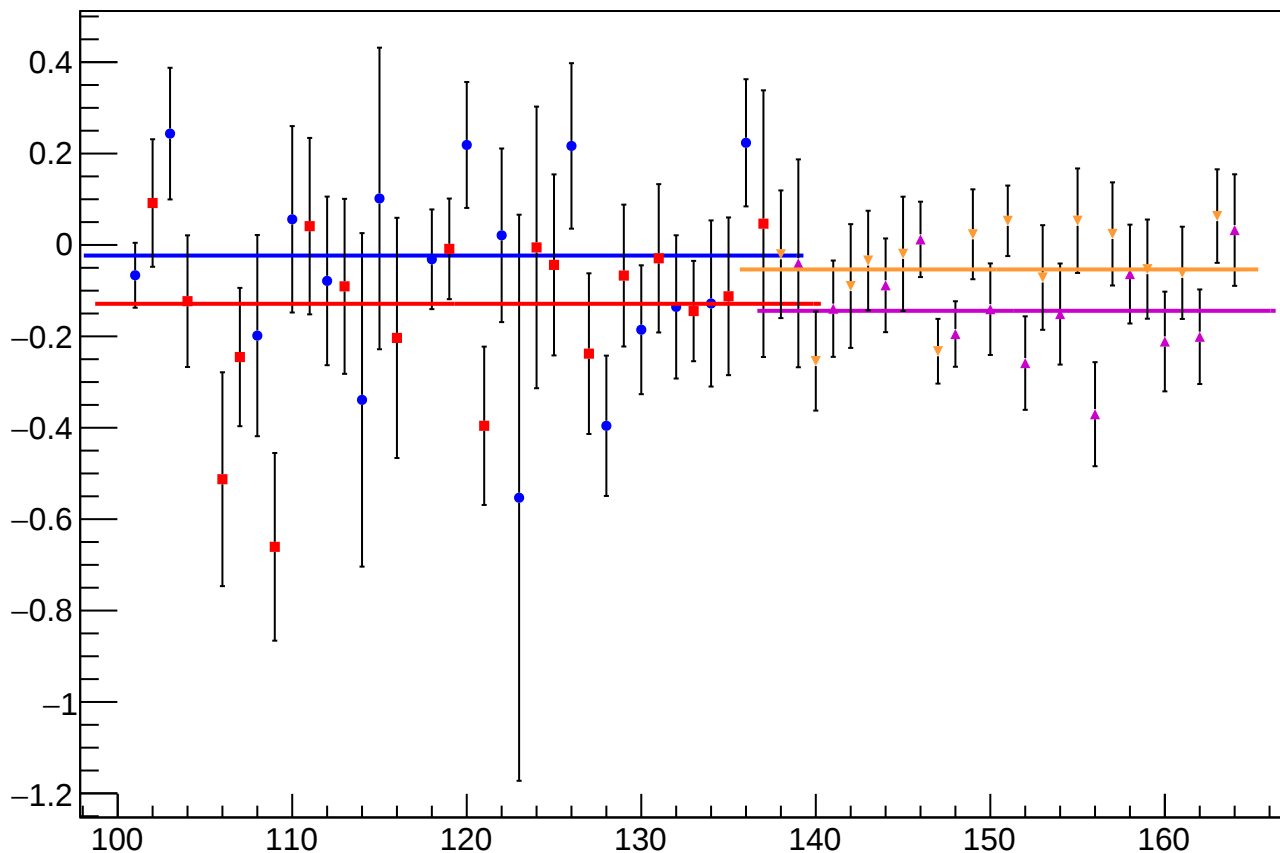
Left In: -0.037 $\pm$ 0.040  $\chi^2$ /NDF: 13.2/12

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

All: -0.027 $\pm$ 0.028  $\chi^2$ /NDF: 33.3/26

- 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:  $-0.054 \pm 0.028$   $\chi^2/\text{NDF}$ : 15.2/13

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}$ : 18.6/17

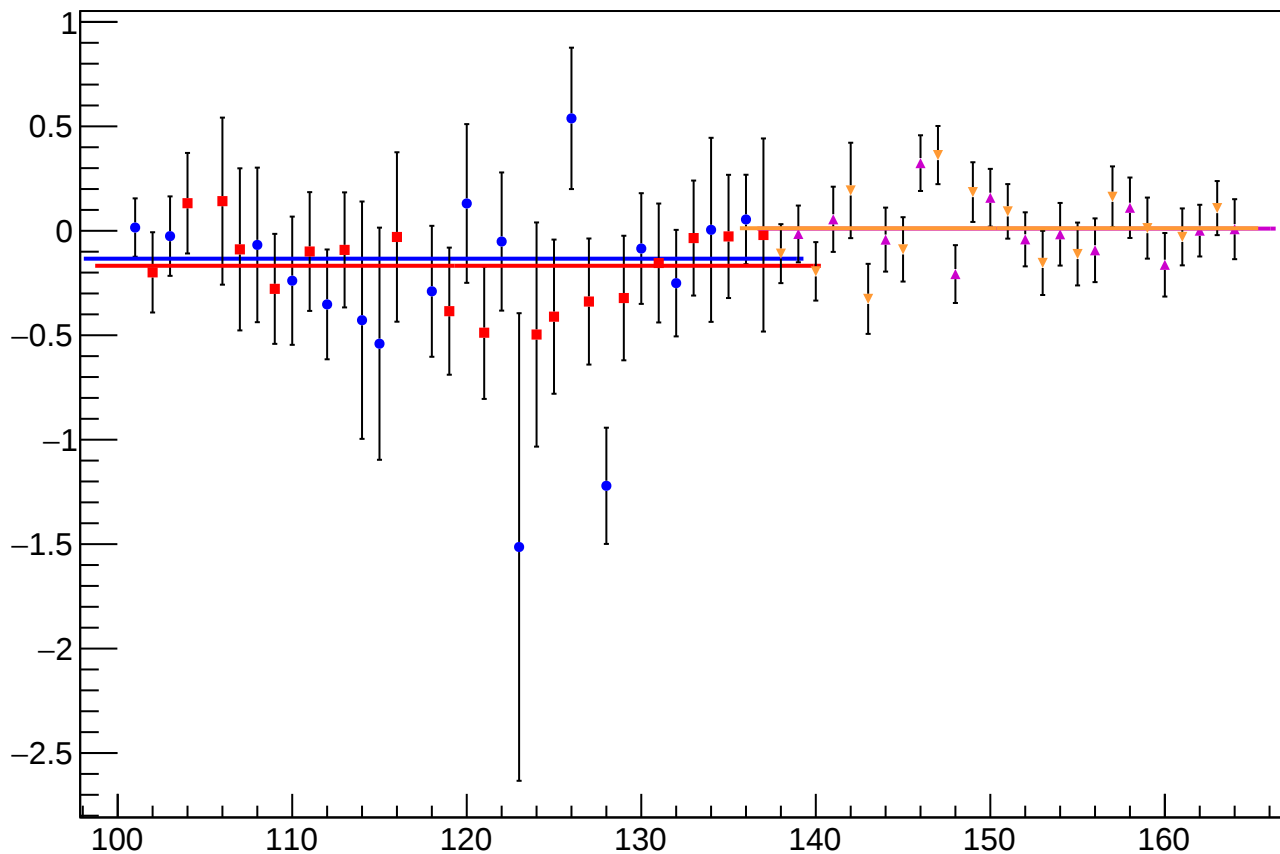
Left In:  $-0.144 \pm 0.029$   $\chi^2/\text{NDF}$ : 13.1/12

+ sign  $-0.043 \pm 0.022$   $\chi^2/\text{NDF}$ : 38.1/30

All:  $-0.088 \pm 0.016$   $\chi^2/\text{NDF}$ : 79.0/61

- sign  $-0.139 \pm 0.023$   $\chi^2/\text{NDF}$ : 31.8/30

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $0.012 \pm 0.039$   $\chi^2/\text{NDF}$ : 19.8/13

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

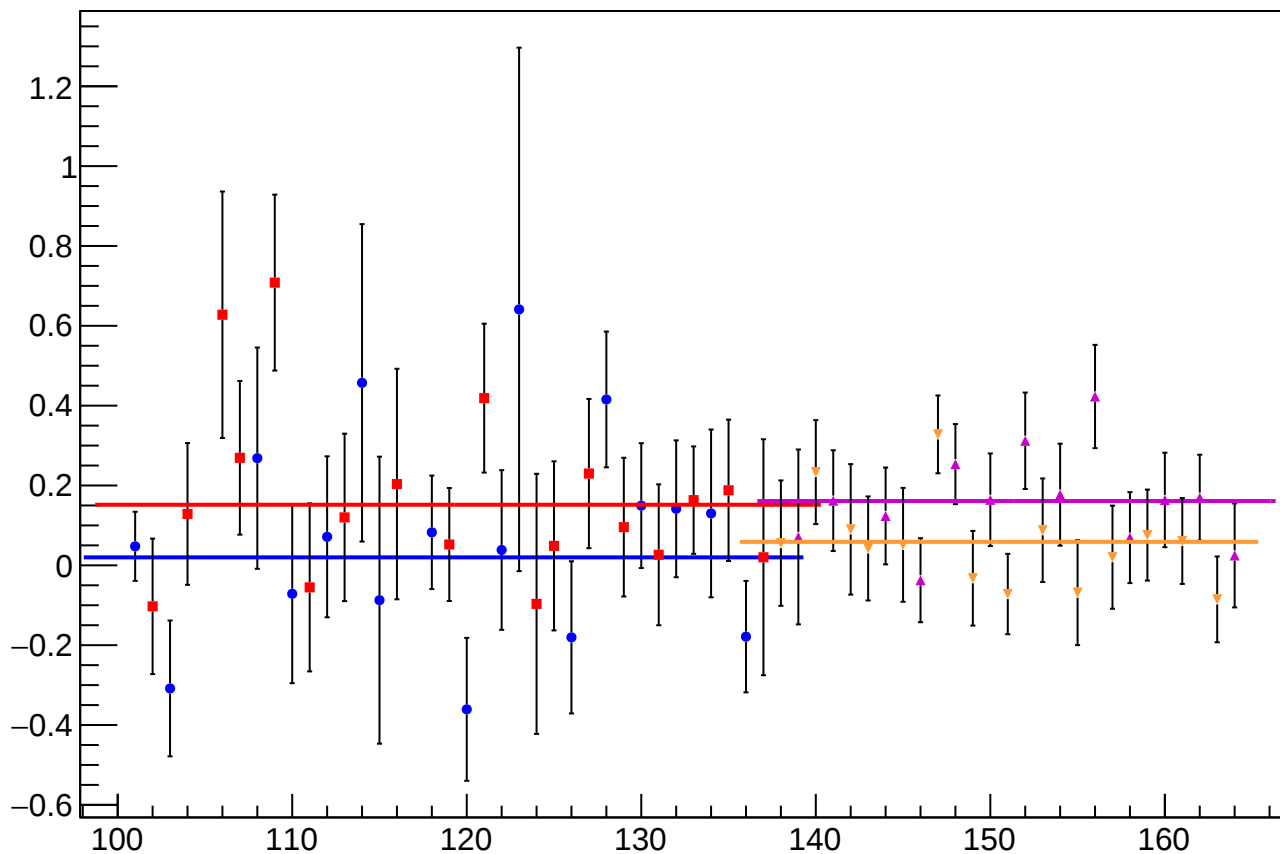
Left In:  $0.011 \pm 0.039$   $\chi^2/\text{NDF}$ : 11.8/12

+ sign  $-0.025 \pm 0.034$   $\chi^2/\text{NDF}$ : 49.1/30

All:  $-0.028 \pm 0.024$   $\chi^2/\text{NDF}$ : 71.8/61

- sign  $-0.031 \pm 0.034$   $\chi^2/\text{NDF}$ : 22.8/30

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In: 0.020 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: 0.059 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 14.7/13

Right Out: 0.152 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 16.8/17

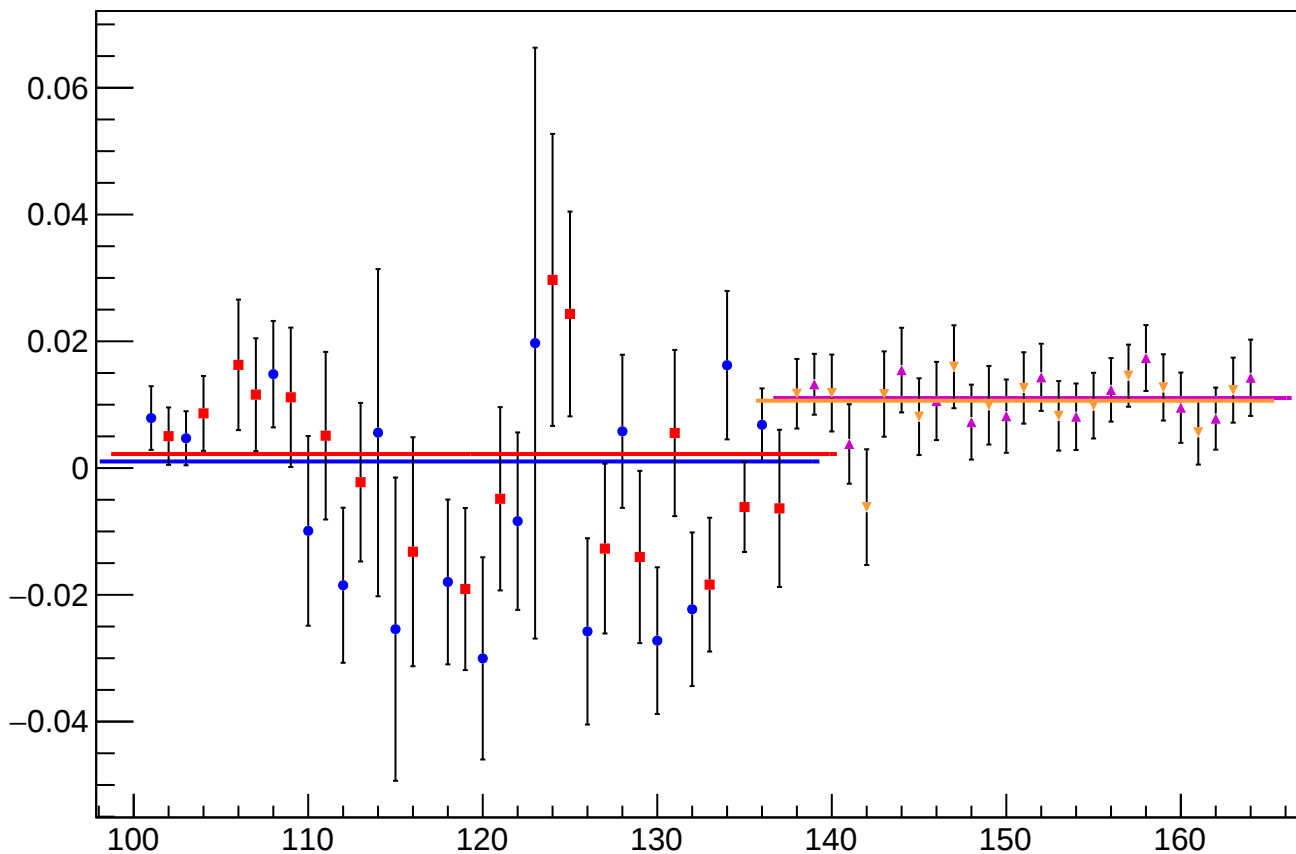
Left In: 0.161 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 12.1/12

+ sign 0.044 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 37.0/30

All: 0.099 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 75.2/61

- sign 0.158 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 28.9/30

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In:  $0.001 \pm 0.002$   $\chi^2/\text{NDF}$ : 32.0/16

Left Out:  $0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 6.5/13

Right Out:  $0.002 \pm 0.002$   $\chi^2/\text{NDF}$ : 20.8/17

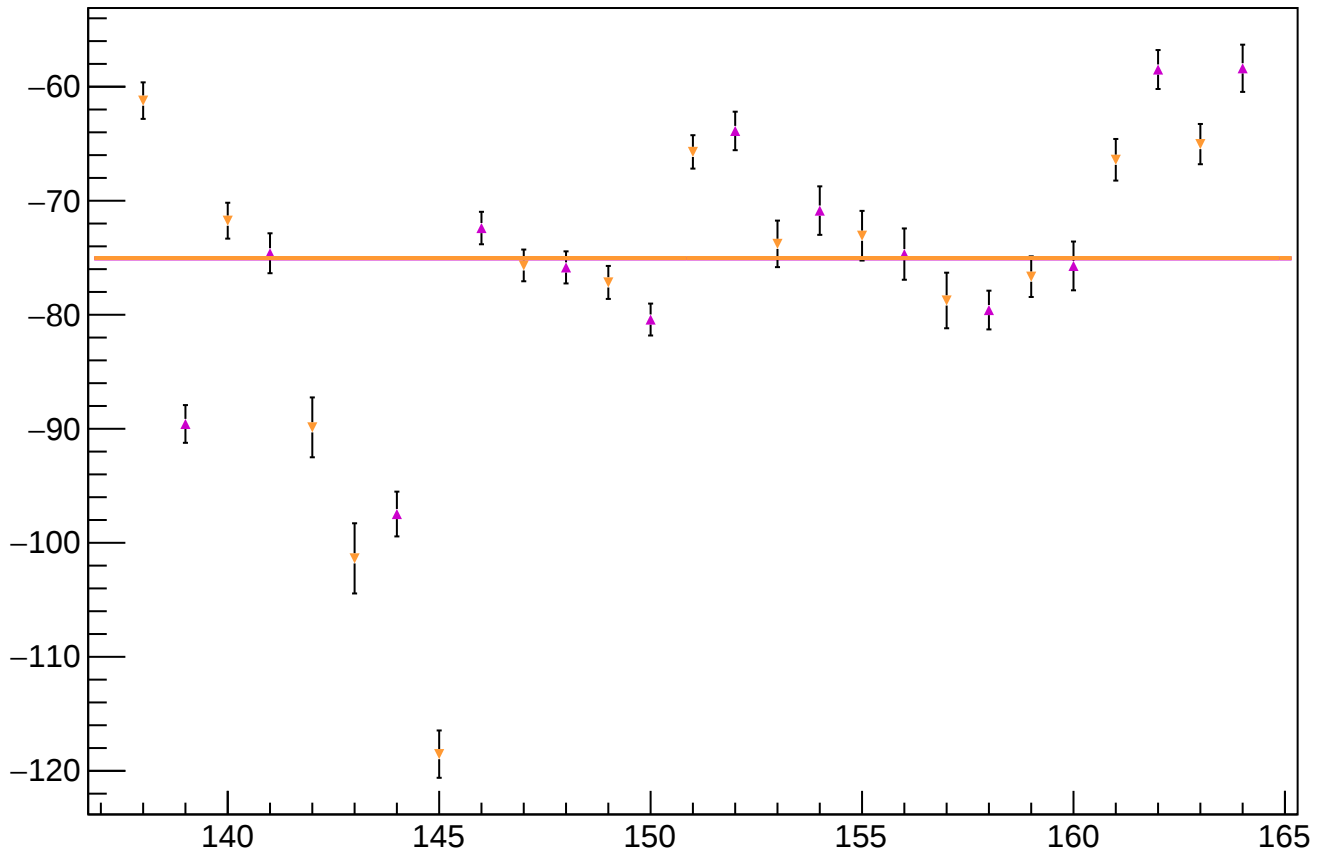
Left In:  $0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 5.7/12

+ sign  $0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 51.1/30

All:  $0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 88.1/61

- sign  $0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.8/30

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -75.023+/-0.483  $\chi^2/\text{NDF}$ : 724.7/13

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

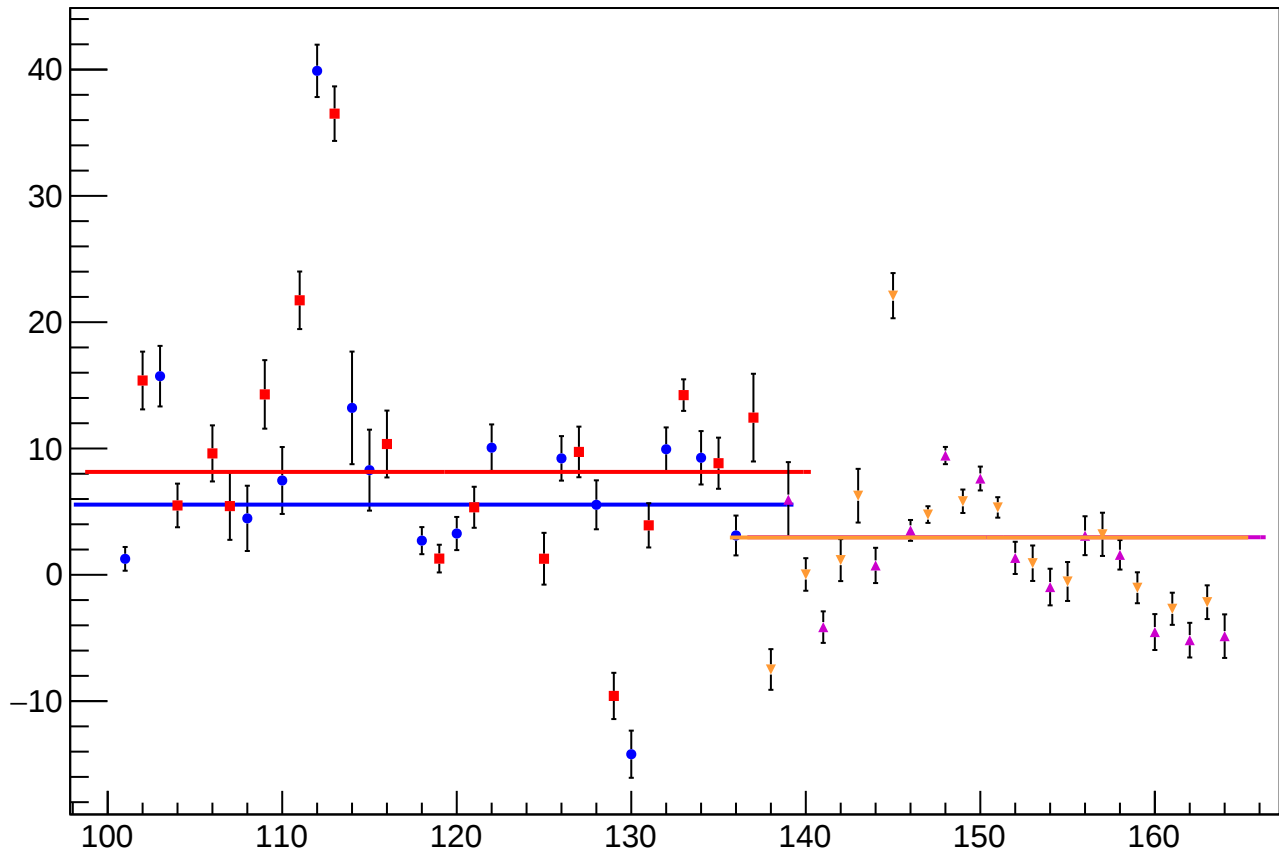
Left In: -75.062+/-0.478  $\chi^2/\text{NDF}$ : 439.7/12

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

All: -75.043+/-0.340  $\chi^2/\text{NDF}$ : 1164.4/26

- 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:  $2.954 \pm 0.316$   $\chi^2/\text{NDF}: 243.4/13$

Right Out:  $8.146 \pm 0.454$   $\chi^2/\text{NDF}: 406.8/16$

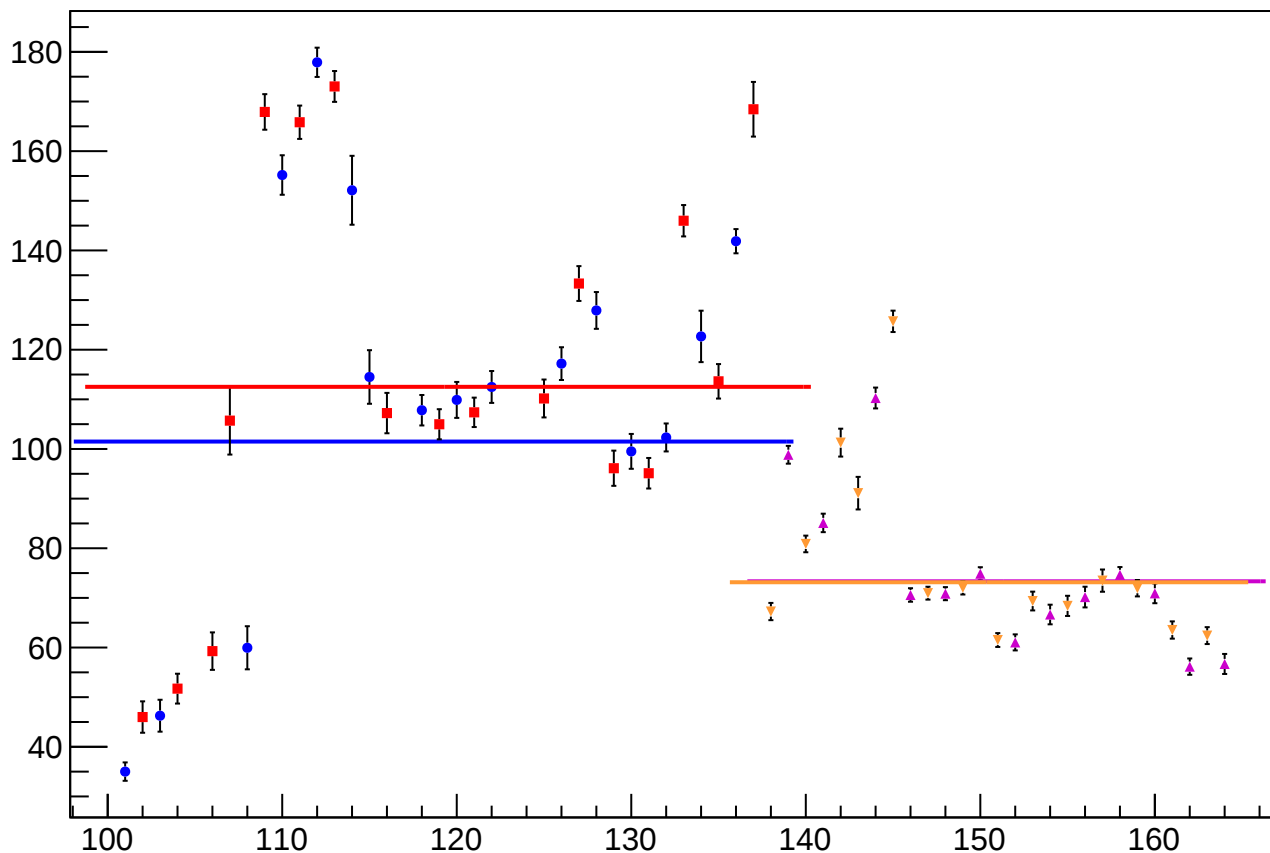
Left In:  $2.975 \pm 0.323$   $\chi^2/\text{NDF}: 244.9/12$

+ sign  $3.885 \pm 0.254$   $\chi^2/\text{NDF}: 729.6/29$

All:  $4.281 \pm 0.183$   $\chi^2/\text{NDF}: 1472.5/59$

- sign  $4.707 \pm 0.263$   $\chi^2/\text{NDF}: 737.8/29$

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.496 $\pm$ 0.808  $\chi^2$ /NDF: 2973.0/15

Left Out: 73.154 $\pm$ 0.470  $\chi^2$ /NDF:911.5/13

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

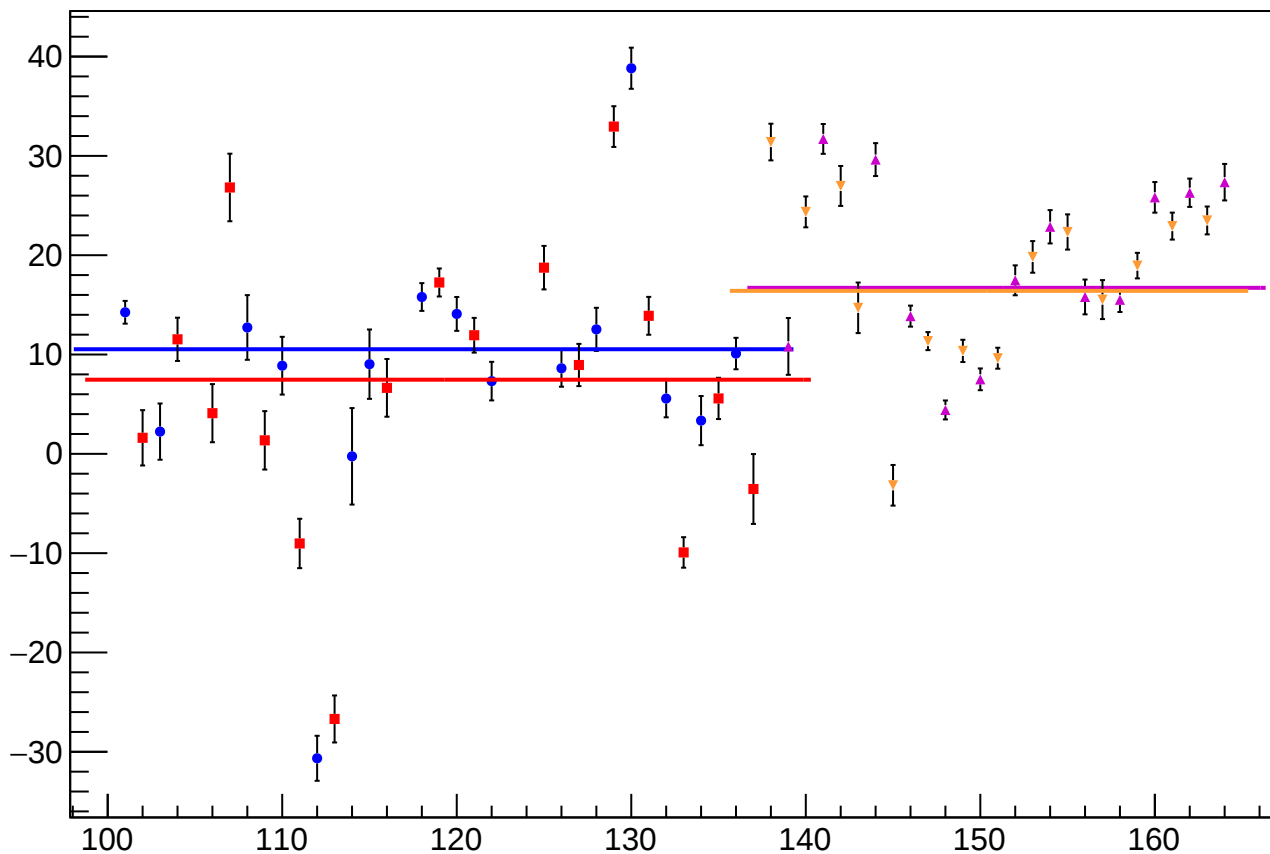
Left In: 73.342 $\pm$ 0.463  $\chi^2$ /NDF:811.7/12

+ sign 80.306 $\pm$ 0.406  $\chi^2$ /NDF: 4803.8/29

All: 81.359 $\pm$ 0.287  $\chi^2$ /NDF: 9525.0/59

- sign 82.411 $\pm$ 0.406  $\chi^2$ /NDF: 4707.8/29

# 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:  $16.411 \pm 0.381$   $\chi^2/\text{NDF}: 381.4/13$

Right Out:  $7.466 \pm 0.525$   $\chi^2/\text{NDF}: 685.0/16$

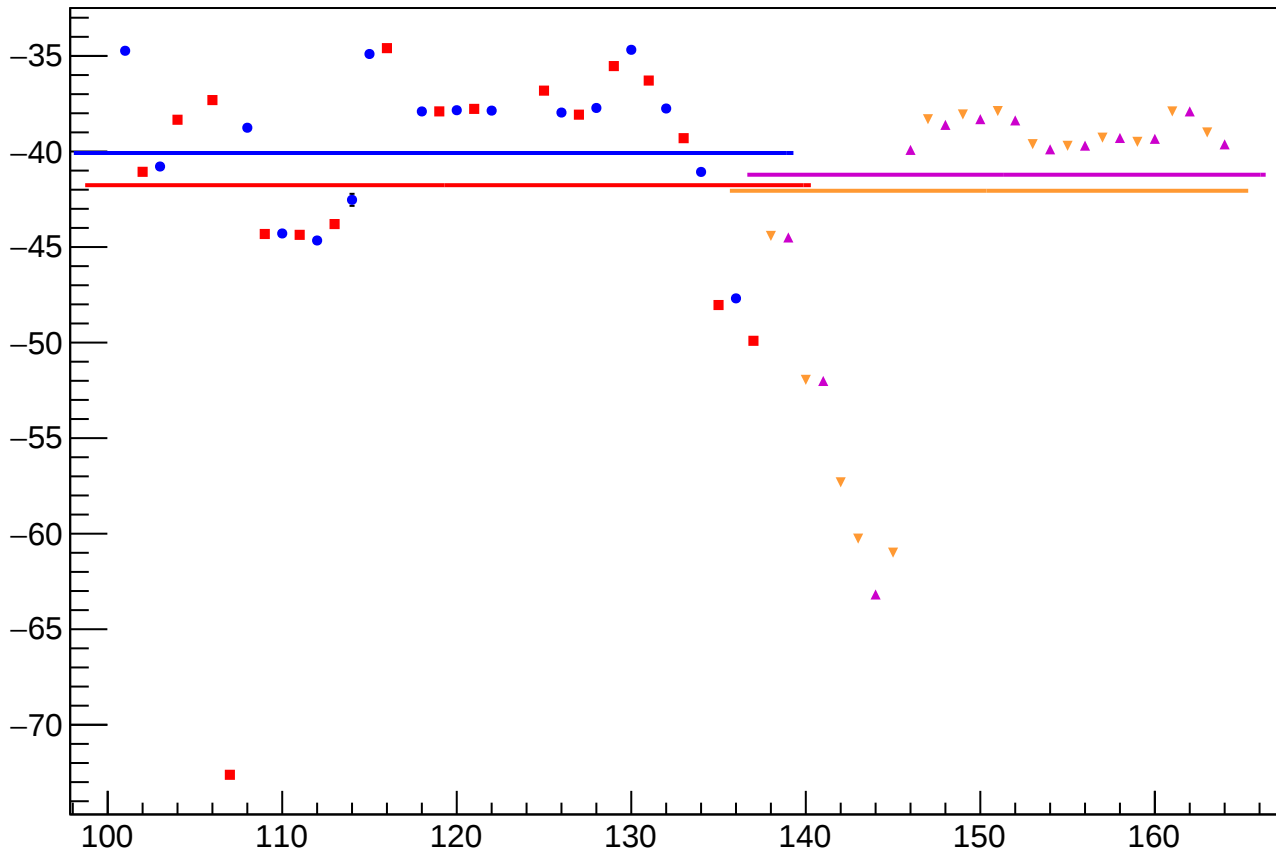
Left In:  $16.716 \pm 0.385$   $\chi^2/\text{NDF}: 537.2/12$

+ sign  $14.210 \pm 0.302$   $\chi^2/\text{NDF}: 1050.8/29$

All:  $13.856 \pm 0.216$   $\chi^2/\text{NDF}: 2477.6/59$

- sign  $13.482 \pm 0.310$   $\chi^2/\text{NDF}: 1424.0/29$

# 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:  $-42.055 \pm 0.019$   $\chi^2/\text{NDF}$ : 130820.1/13

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}$ : 60249.3/16

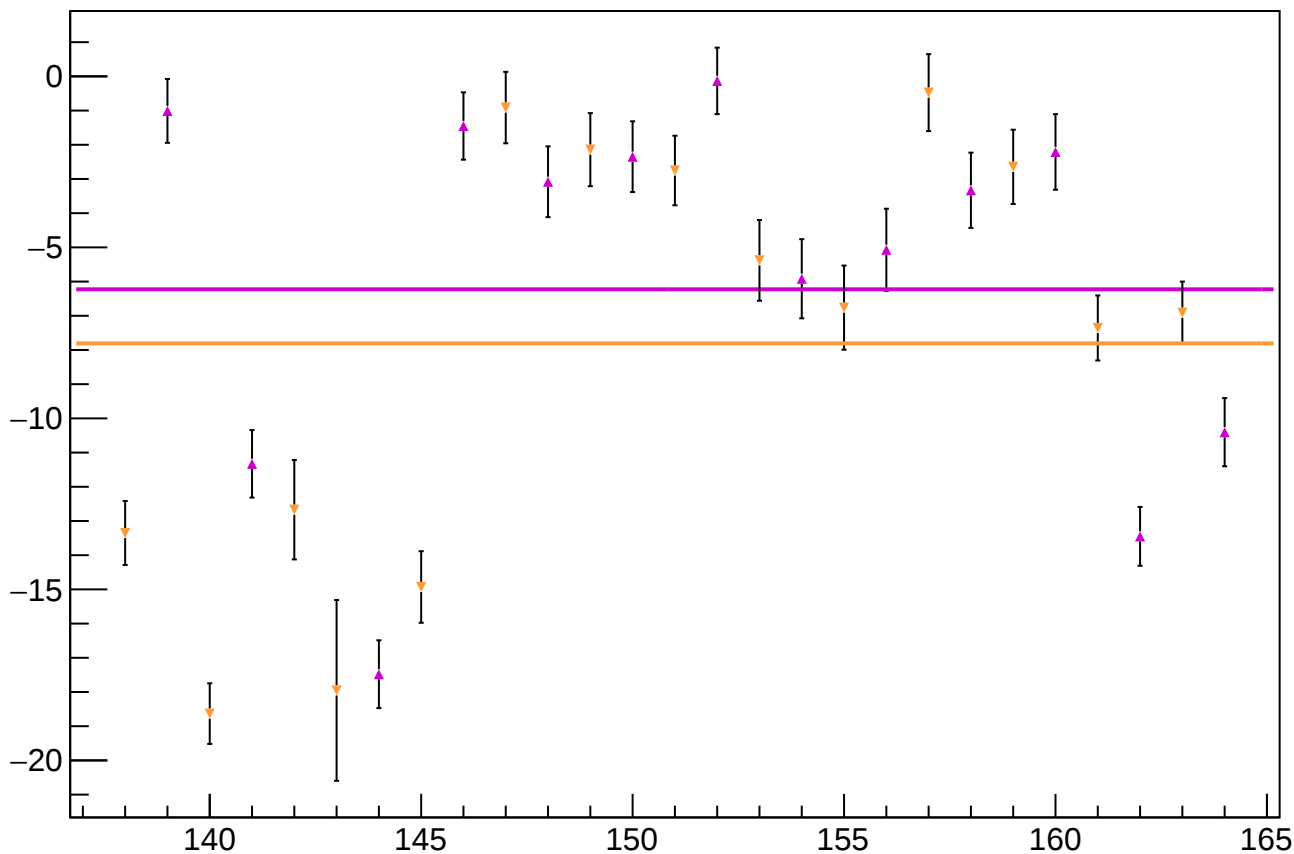
Left In:  $-41.216 \pm 0.018$   $\chi^2/\text{NDF}$ : 92973.9/12

+ sign  $-41.449 \pm 0.016$   $\chi^2/\text{NDF}$ : 159369.0/29

All:  $-41.411 \pm 0.011$   $\chi^2/\text{NDF}$ : 312860.4/59

- sign  $-41.374 \pm 0.015$   $\chi^2/\text{NDF}$ : 153479.5/29

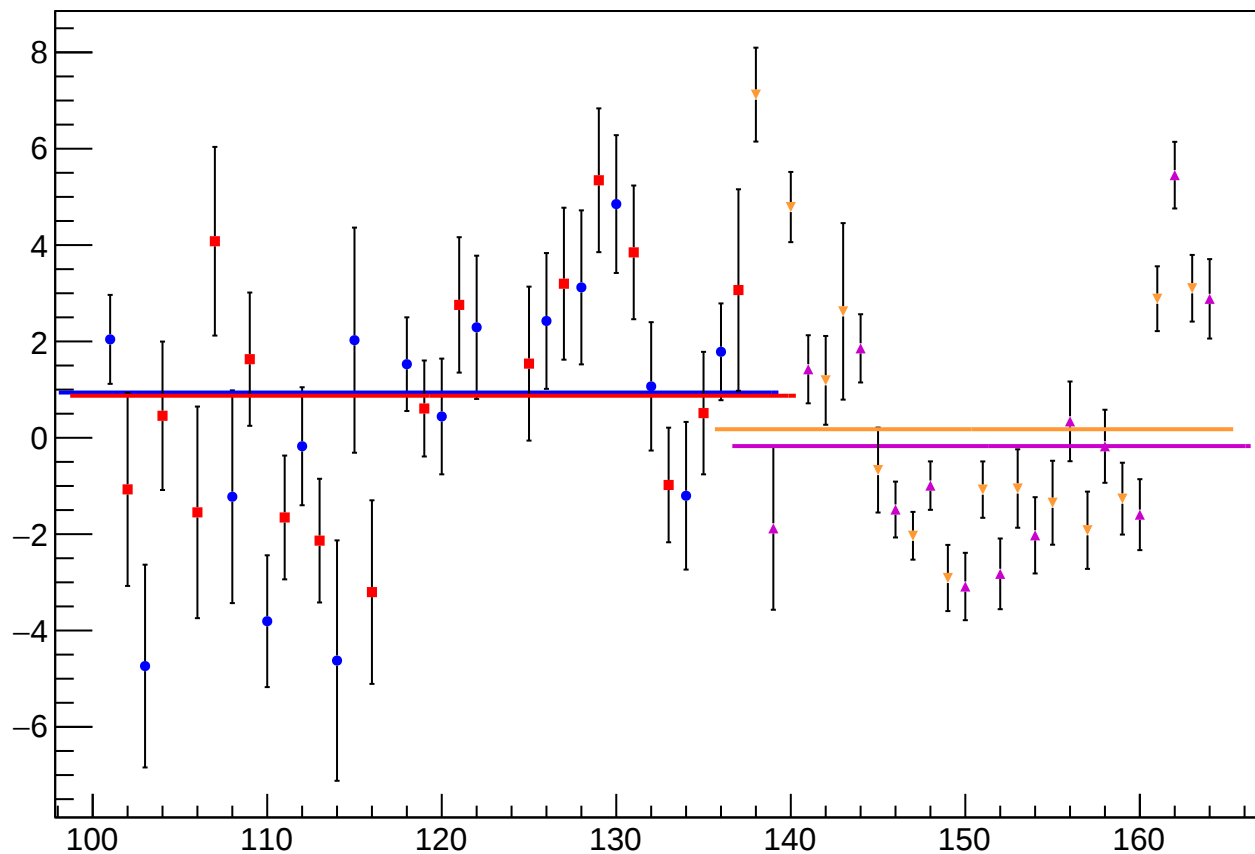
# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -7.807 $\pm$ 0.288  $\chi^2$ /NDF:424.0/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -6.227 $\pm$ 0.282  $\chi^2$ /NDF:382.3/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -6.999 $\pm$ 0.201  $\chi^2$ /NDF: 821.7/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $0.178 \pm 0.199$   $\chi^2/\text{NDF}: 189.5/13$

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$

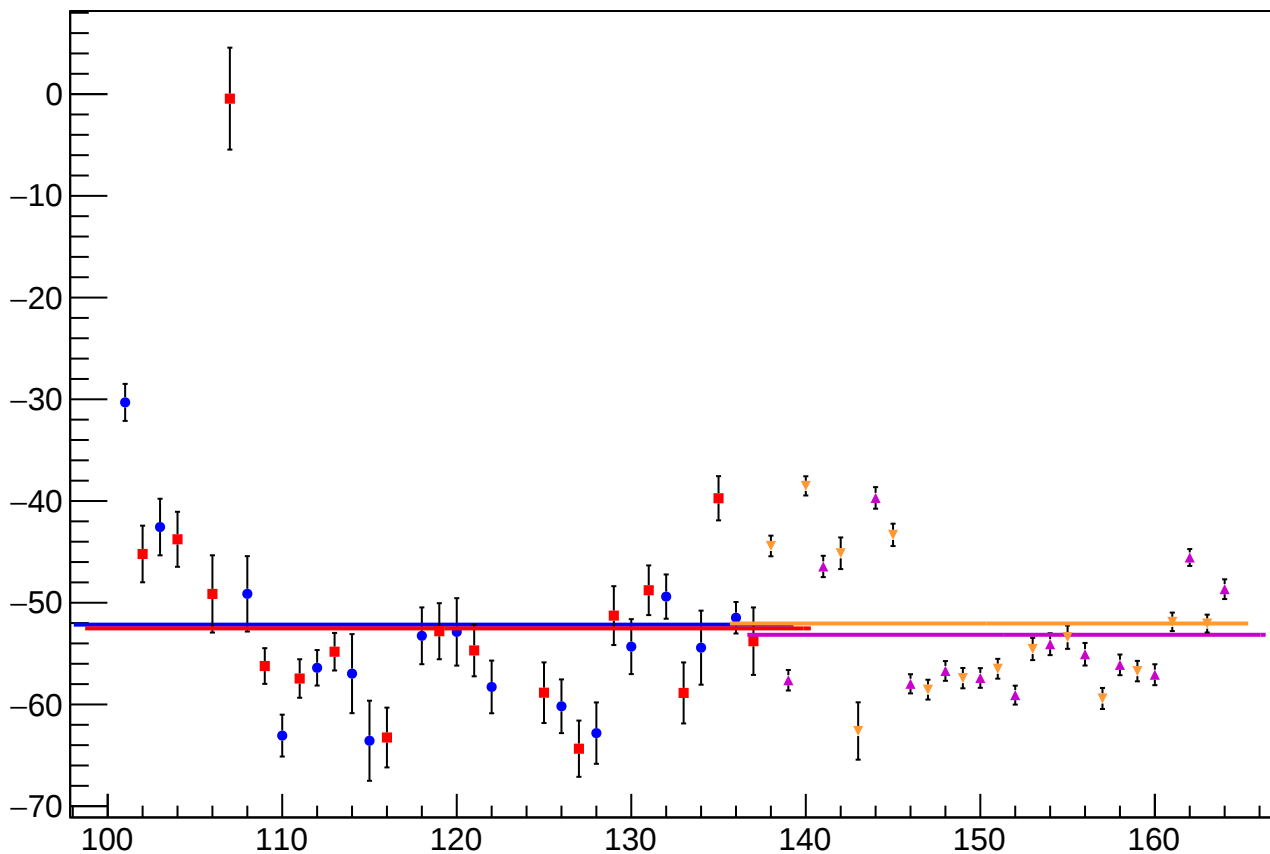
Left In:  $-0.172 \pm 0.198$   $\chi^2/\text{NDF}: 142.0/12$

+ sign  $0.373 \pm 0.171$   $\chi^2/\text{NDF}: 235.5/29$

All:  $0.227 \pm 0.122$   $\chi^2/\text{NDF}: 426.1/59$

- sign  $0.078 \pm 0.173$   $\chi^2/\text{NDF}: 189.2/29$

# 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:  $-52.041 \pm 0.282$   $\chi^2/\text{NDF}$ : 531.3/13

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

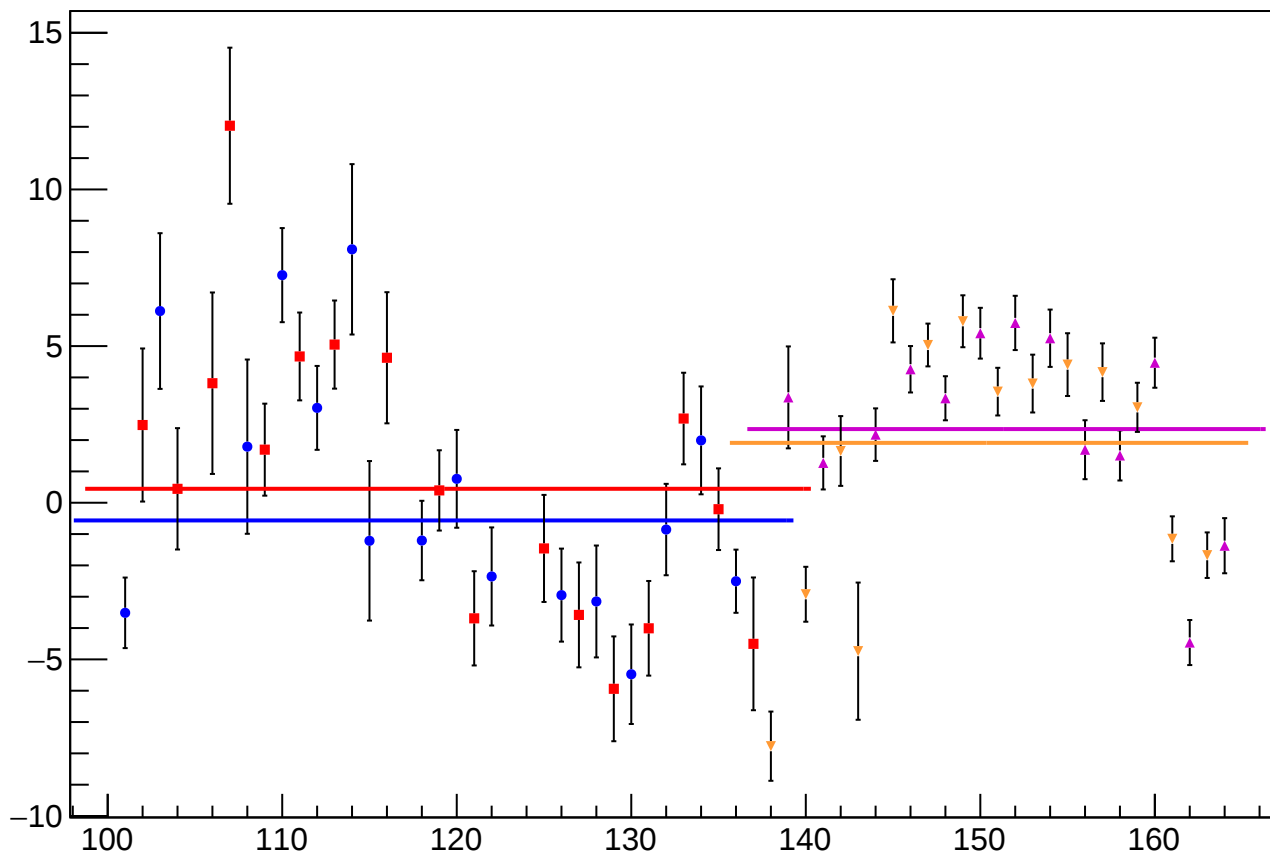
Left In:  $-53.151 \pm 0.274$   $\chi^2/\text{NDF}$ : 453.5/12

+ sign  $-52.061 \pm 0.256$   $\chi^2/\text{NDF}$ : 762.4/29

All:  $-52.565 \pm 0.179$   $\chi^2/\text{NDF}$ : 1442.1/59

- sign  $-53.047 \pm 0.251$   $\chi^2/\text{NDF}$ : 672.1/29

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.565 \pm 0.384$   $\chi^2/\text{NDF}$ : 81.8/15

Left Out:  $1.911 \pm 0.234$   $\chi^2/\text{NDF}$ : 242.5/13

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

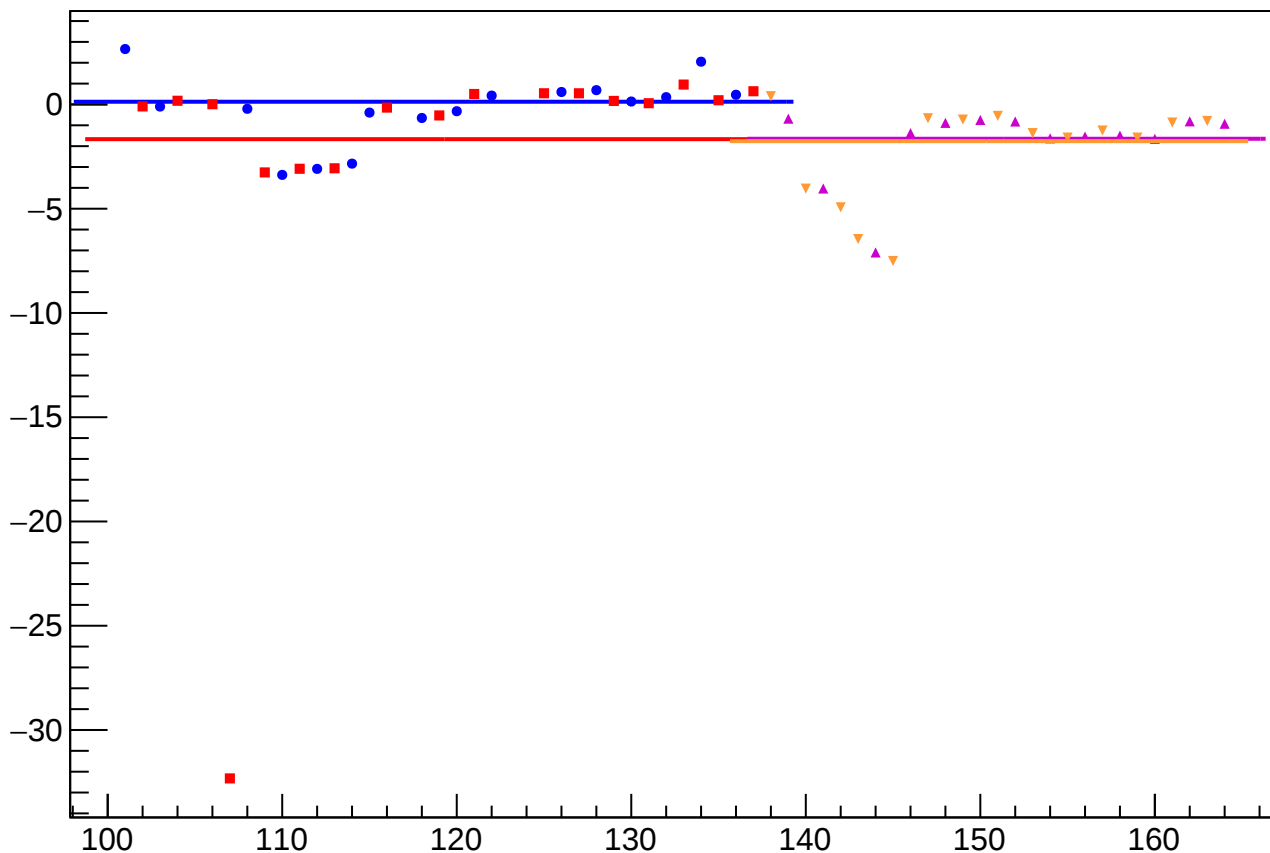
Left In:  $2.351 \pm 0.232$   $\chi^2/\text{NDF}$ : 166.6/12

+ sign  $1.242 \pm 0.200$   $\chi^2/\text{NDF}$ : 354.6/29

All:  $1.555 \pm 0.142$   $\chi^2/\text{NDF}$ : 637.2/59

- sign  $1.872 \pm 0.201$   $\chi^2/\text{NDF}$ : 277.6/29

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.130 \pm 0.022$   $\chi^2/\text{NDF}$ : 5232.9/15

Left Out:  $-1.760 \pm 0.011$   $\chi^2/\text{NDF}$ : 31833.7/13

Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}$ : 77602.8/16

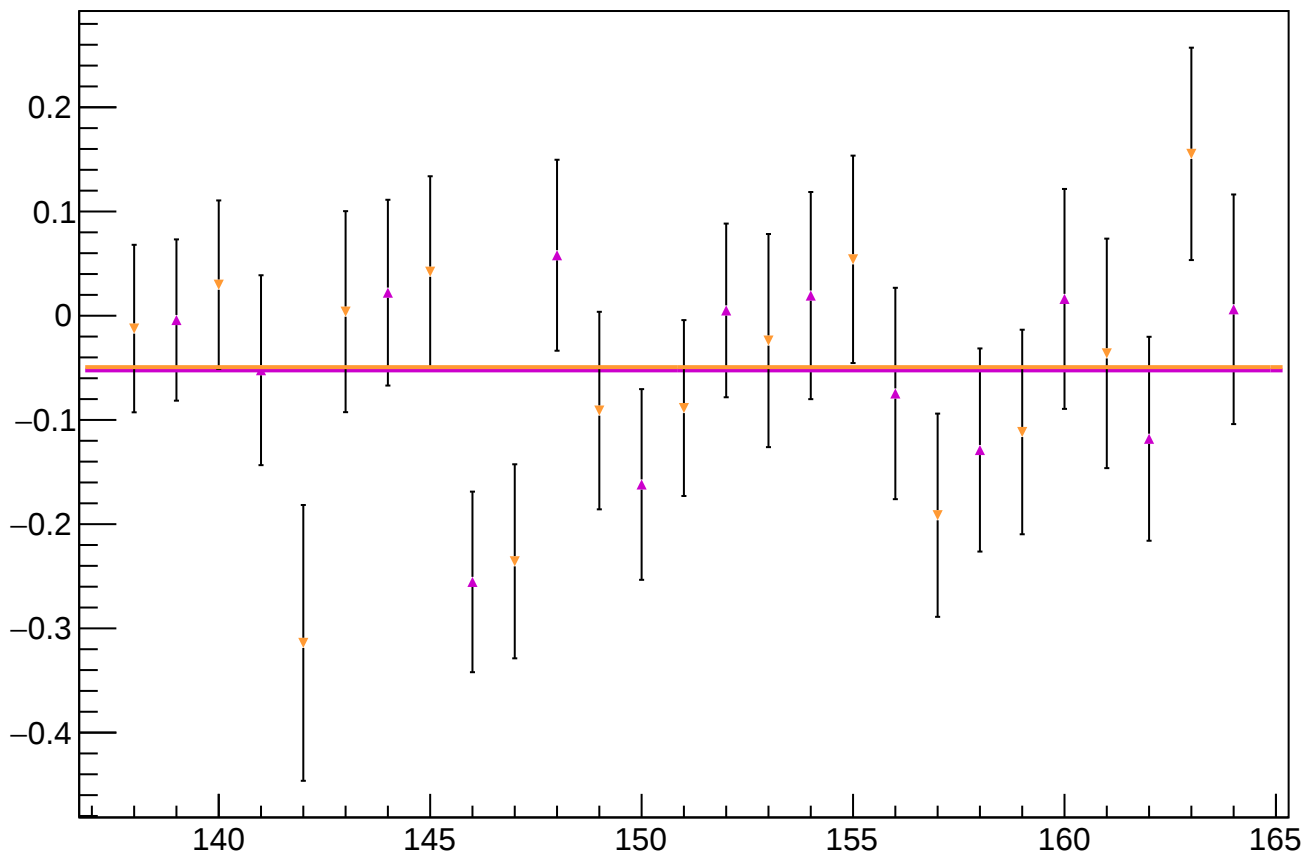
Left In:  $-1.645 \pm 0.011$   $\chi^2/\text{NDF}$ : 20107.9/12

+ sign  $-1.367 \pm 0.010$   $\chi^2/\text{NDF}$ : 43181.4/29

All:  $-1.510 \pm 0.007$   $\chi^2/\text{NDF}$ : 141311.7/59

- sign  $-1.649 \pm 0.010$   $\chi^2/\text{NDF}$ : 97711.3/29

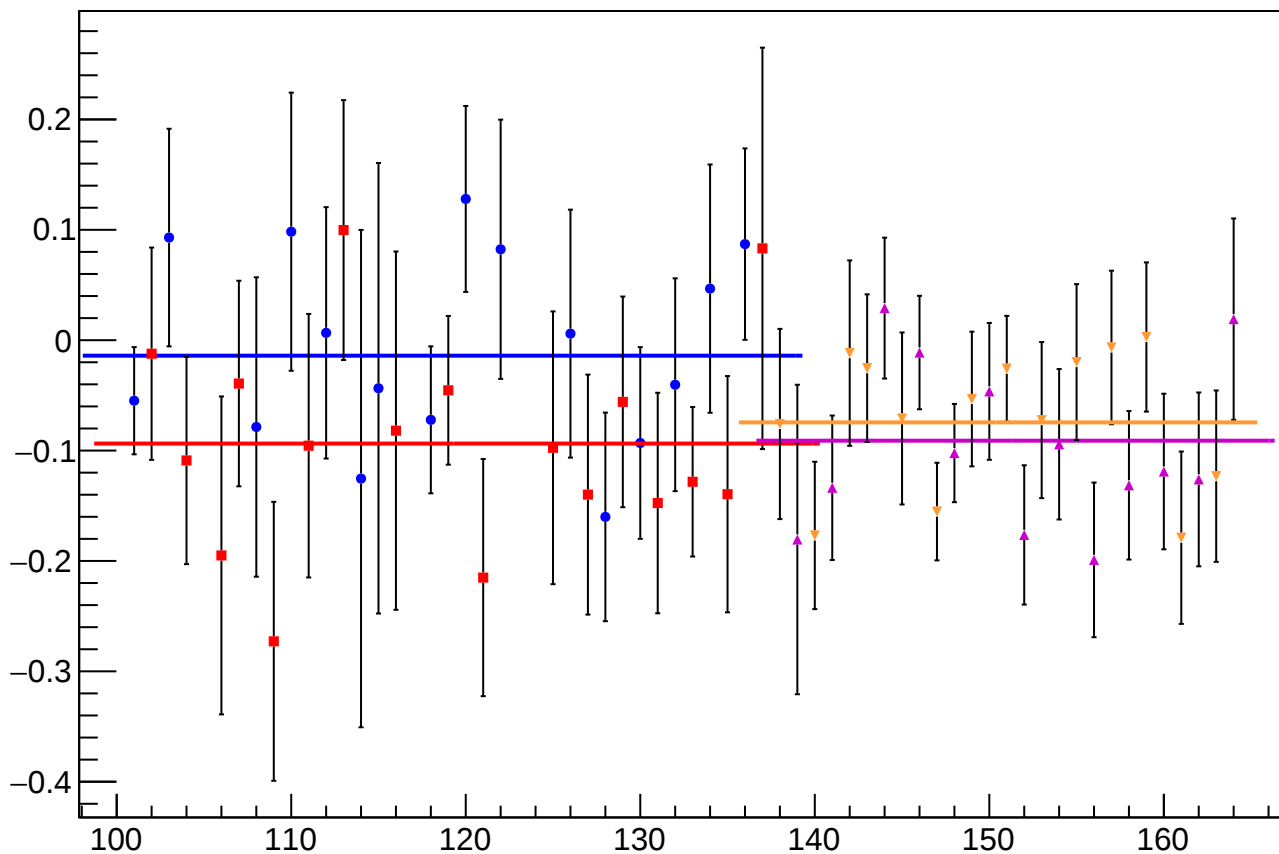
# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.049 $\pm$ 0.025  $\chi^2$ /NDF:18.6/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.052 $\pm$ 0.026  $\chi^2$ /NDF:12.3/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.051 $\pm$ 0.018  $\chi^2$ /NDF: 30.9/26  
 - 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:  $-0.074 \pm 0.018$   $\chi^2/\text{NDF}$ : 13.0/13

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

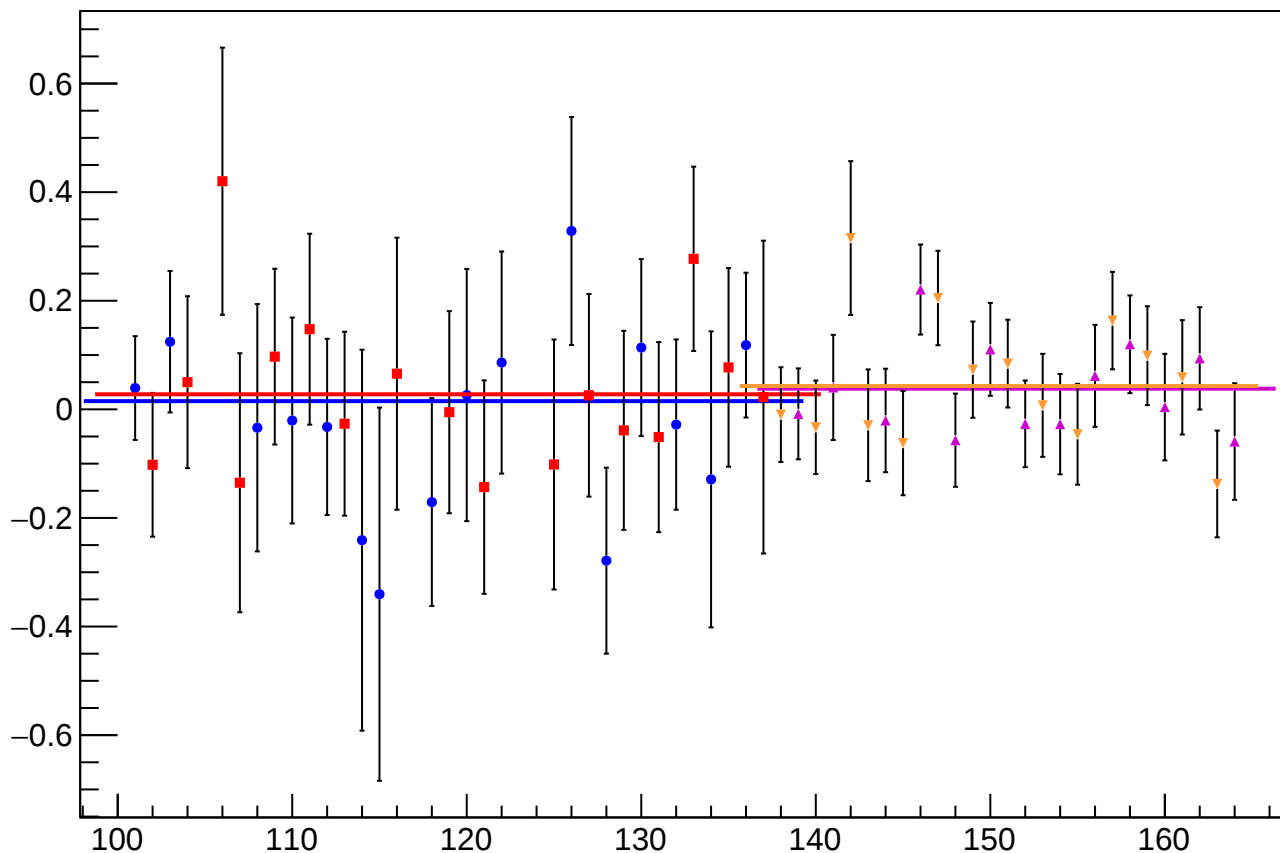
Left In:  $-0.091 \pm 0.018$   $\chi^2/\text{NDF}$ : 13.8/12

+ sign  $-0.053 \pm 0.014$   $\chi^2/\text{NDF}$ : 29.8/29

All:  $-0.071 \pm 0.010$   $\chi^2/\text{NDF}$ : 57.4/59

- sign  $-0.092 \pm 0.015$   $\chi^2/\text{NDF}$ : 23.9/29

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.015 $\pm$ 0.043  $\chi^2$ /NDF: 10.1/15

Left Out: 0.043 $\pm$ 0.025  $\chi^2$ /NDF: 17.0/13

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

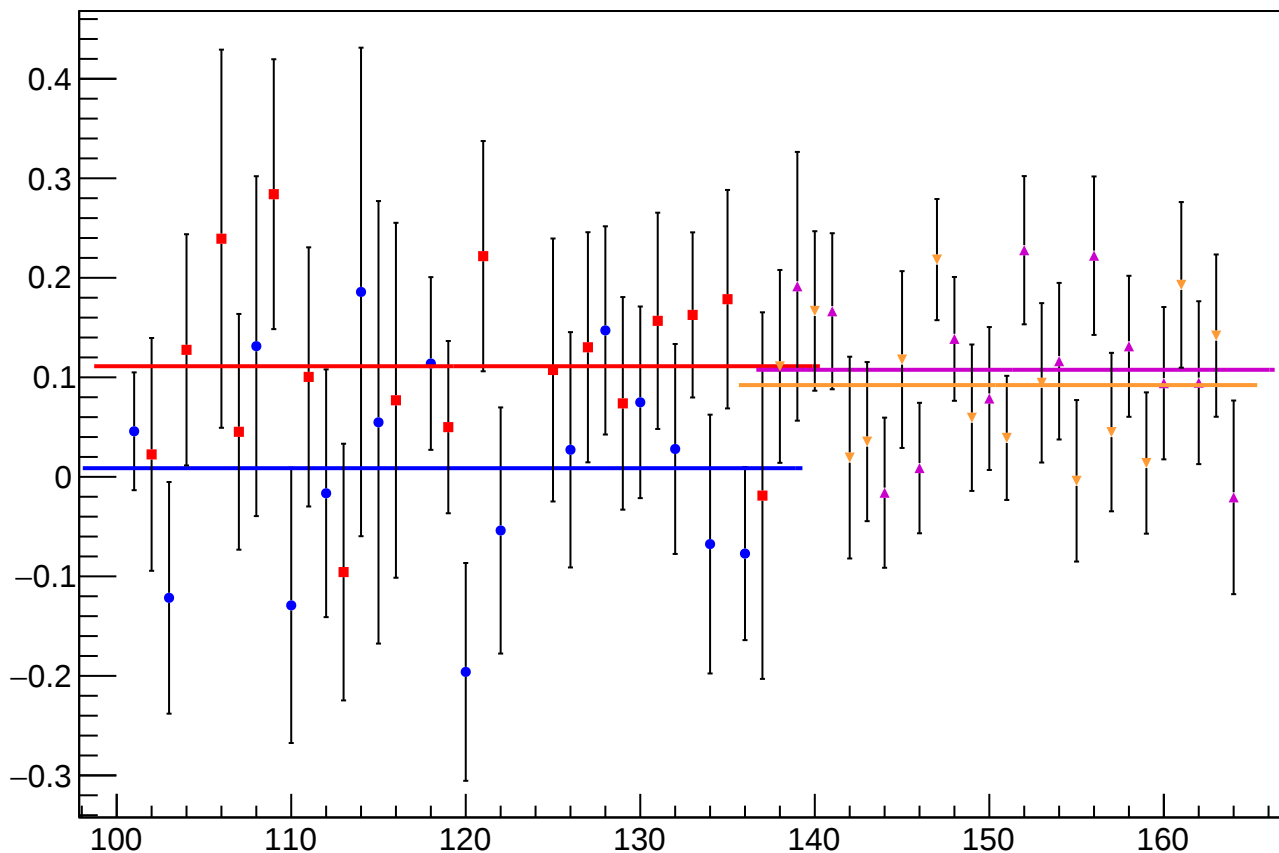
Left In: 0.038 $\pm$ 0.025  $\chi^2$ /NDF: 10.8/12

+ sign 0.036 $\pm$ 0.022  $\chi^2$ /NDF: 27.4/29

All: 0.036 $\pm$ 0.015  $\chi^2$ /NDF: 46.7/59

- sign 0.036 $\pm$ 0.022  $\chi^2$ /NDF: 19.3/29

# 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:  $0.092 \pm 0.021$   $\chi^2/\text{NDF}$ : 12.0/13

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.6/16

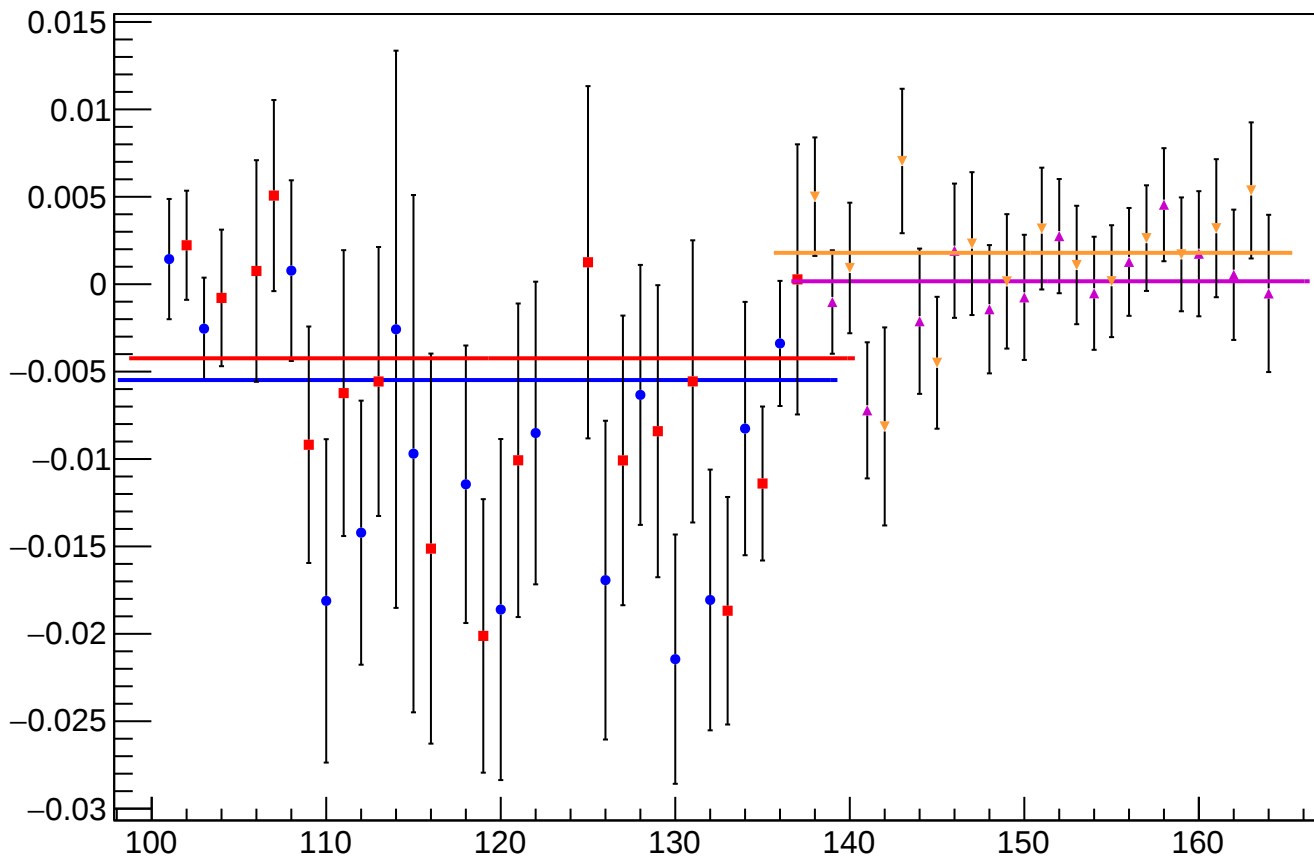
Left In:  $0.108 \pm 0.021$   $\chi^2/\text{NDF}$ : 12.9/12

+ sign  $0.061 \pm 0.016$   $\chi^2/\text{NDF}$ : 30.6/29

All:  $0.084 \pm 0.012$   $\chi^2/\text{NDF}$ : 56.2/59

- sign  $0.109 \pm 0.017$   $\chi^2/\text{NDF}$ : 21.5/29

# 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:  $0.002 \pm 0.001$   $\chi^2/\text{NDF}: 10.1/13$

Right Out:  $-0.004 \pm 0.001$   $\chi^2/\text{NDF}: 23.7/16$

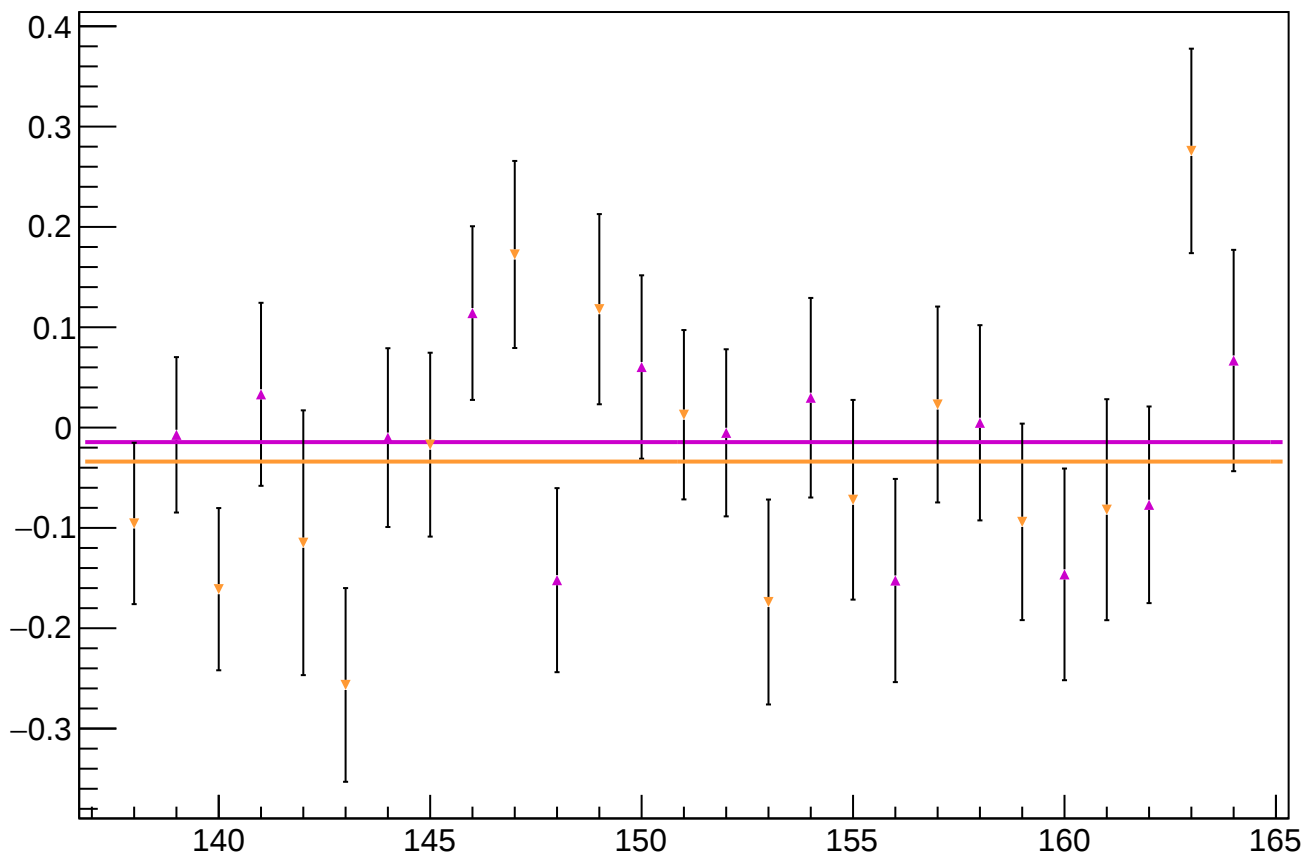
Left In:  $0.000 \pm 0.001$   $\chi^2/\text{NDF}: 7.4/12$

+ sign  $-0.000 \pm 0.001$   $\chi^2/\text{NDF}: 49.9/29$

All:  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}: 87.5/59$

- sign  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}: 37.3/29$

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: -0.034+/-0.025  $\chi^2/\text{NDF}$ : 28.7/13

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

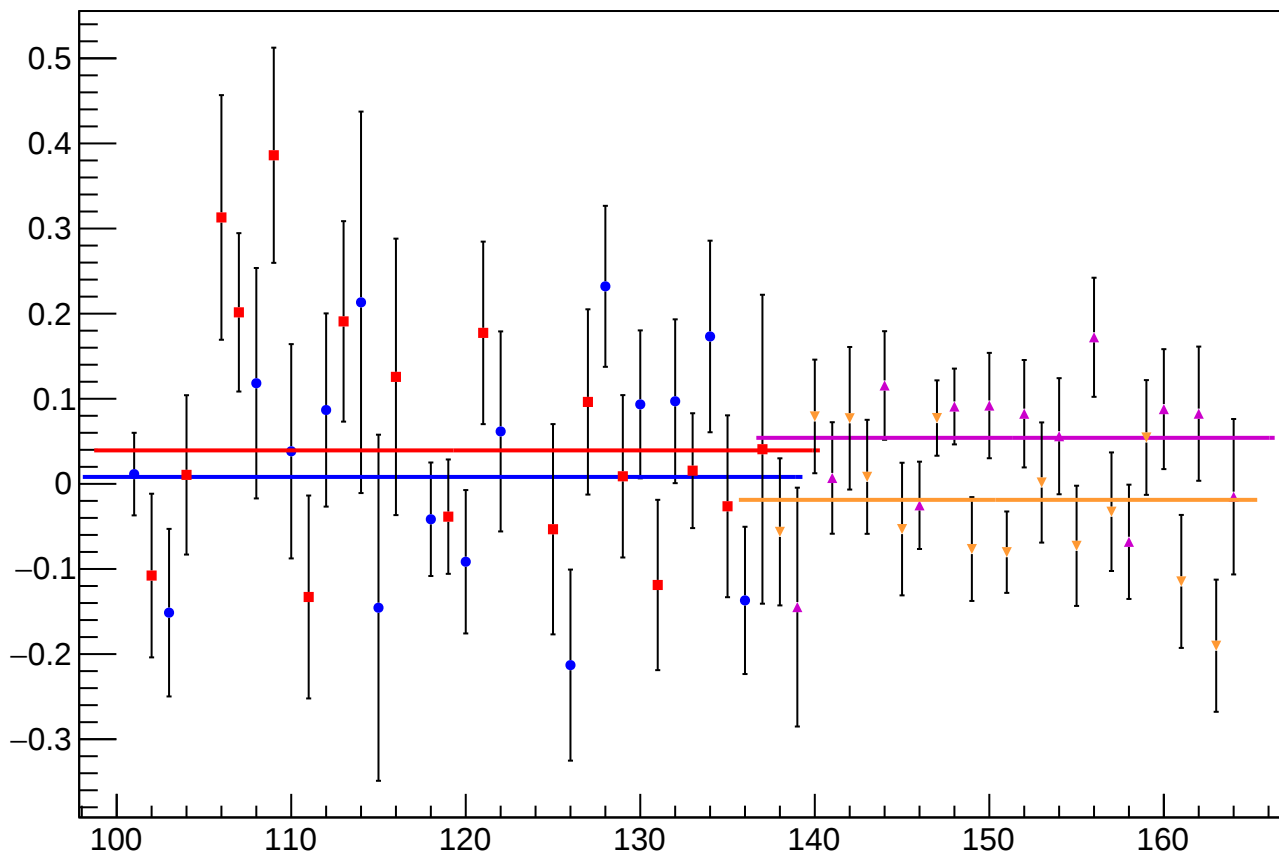
Left In: -0.014+/-0.026  $\chi^2/\text{NDF}$ : 10.0/12

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

All: -0.024+/-0.018  $\chi^2/\text{NDF}$ : 39.0/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $-0.019 \pm 0.018$   $\chi^2/\text{NDF}$ : 19.5/13

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

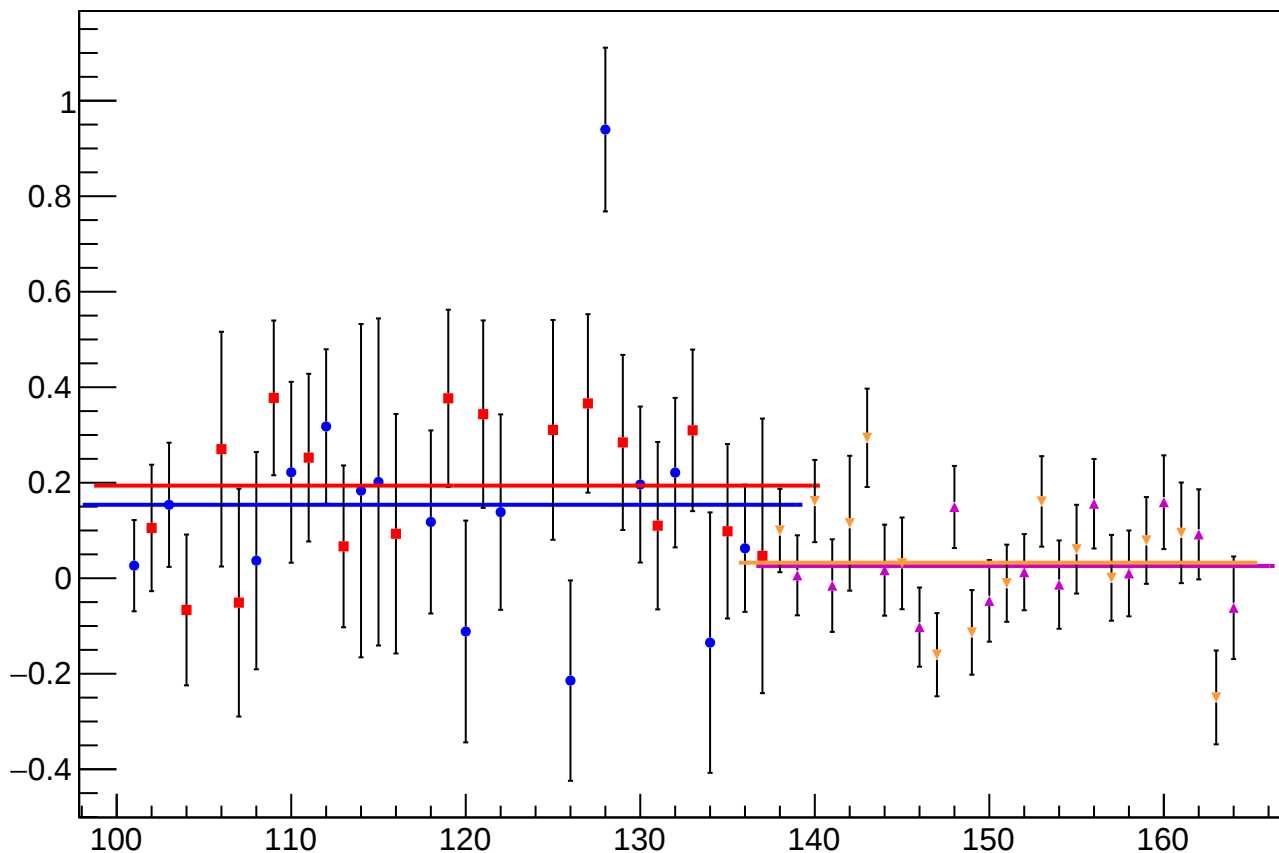
Left In:  $0.054 \pm 0.018$   $\chi^2/\text{NDF}$ : 14.2/12

+ sign  $-0.009 \pm 0.014$   $\chi^2/\text{NDF}$ : 44.1/29

All:  $0.019 \pm 0.010$   $\chi^2/\text{NDF}$ : 94.3/59

- sign  $0.049 \pm 0.015$   $\chi^2/\text{NDF}$ : 42.0/29

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.154 \pm 0.043$   $\chi^2/\text{NDF}: 30.5/15$

Left Out:  $0.033 \pm 0.025$   $\chi^2/\text{NDF}: 28.4/13$

Right Out:  $0.194 \pm 0.045$   $\chi^2/\text{NDF}: 10.6/16$

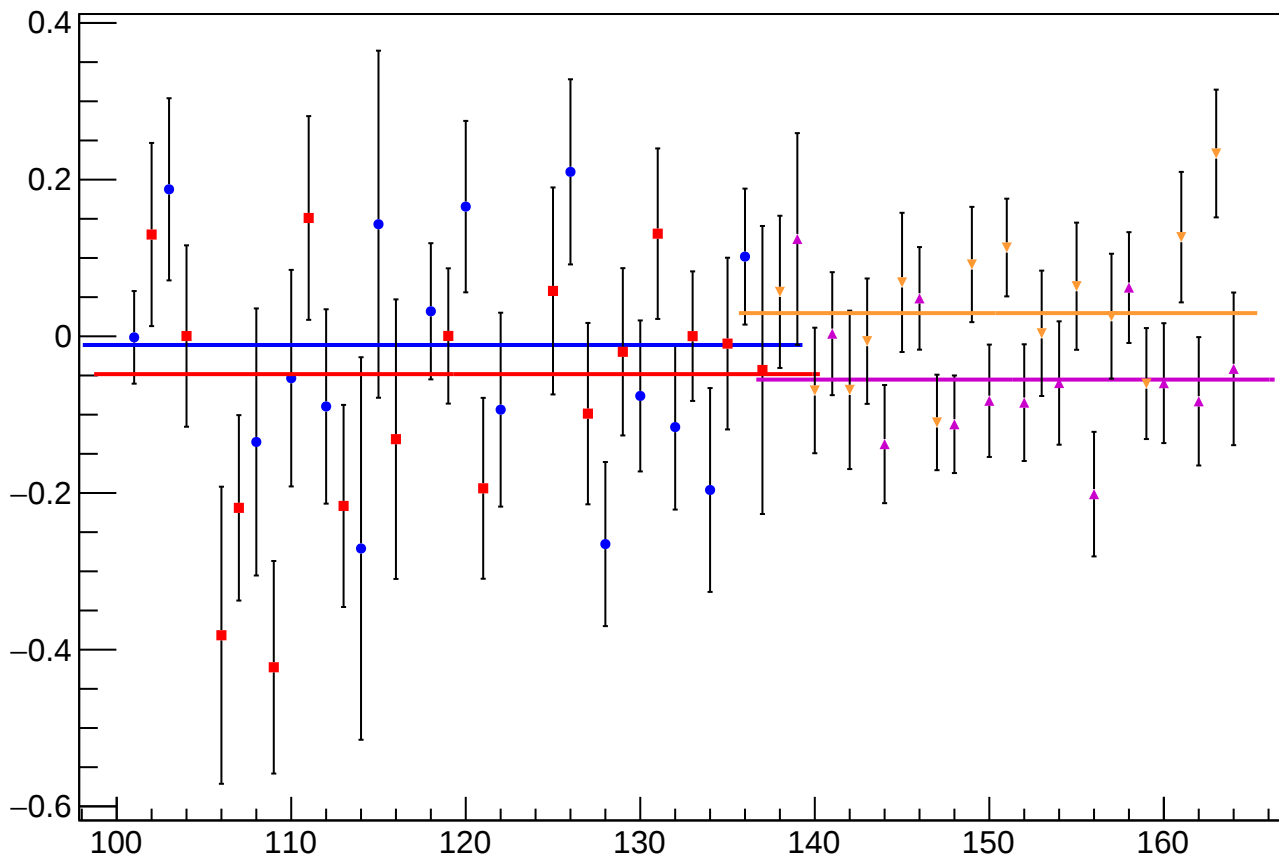
Left In:  $0.026 \pm 0.025$   $\chi^2/\text{NDF}: 10.6/12$

+ sign  $0.063 \pm 0.022$   $\chi^2/\text{NDF}: 64.9/29$

All:  $0.064 \pm 0.015$   $\chi^2/\text{NDF}: 96.8/59$

- sign  $0.066 \pm 0.022$   $\chi^2/\text{NDF}: 31.9/29$

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.011 \pm 0.027$   $\chi^2/\text{NDF}$ : 23.4/15

Left Out:  $0.030 \pm 0.021$   $\chi^2/\text{NDF}$ : 20.2/13

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.6/16

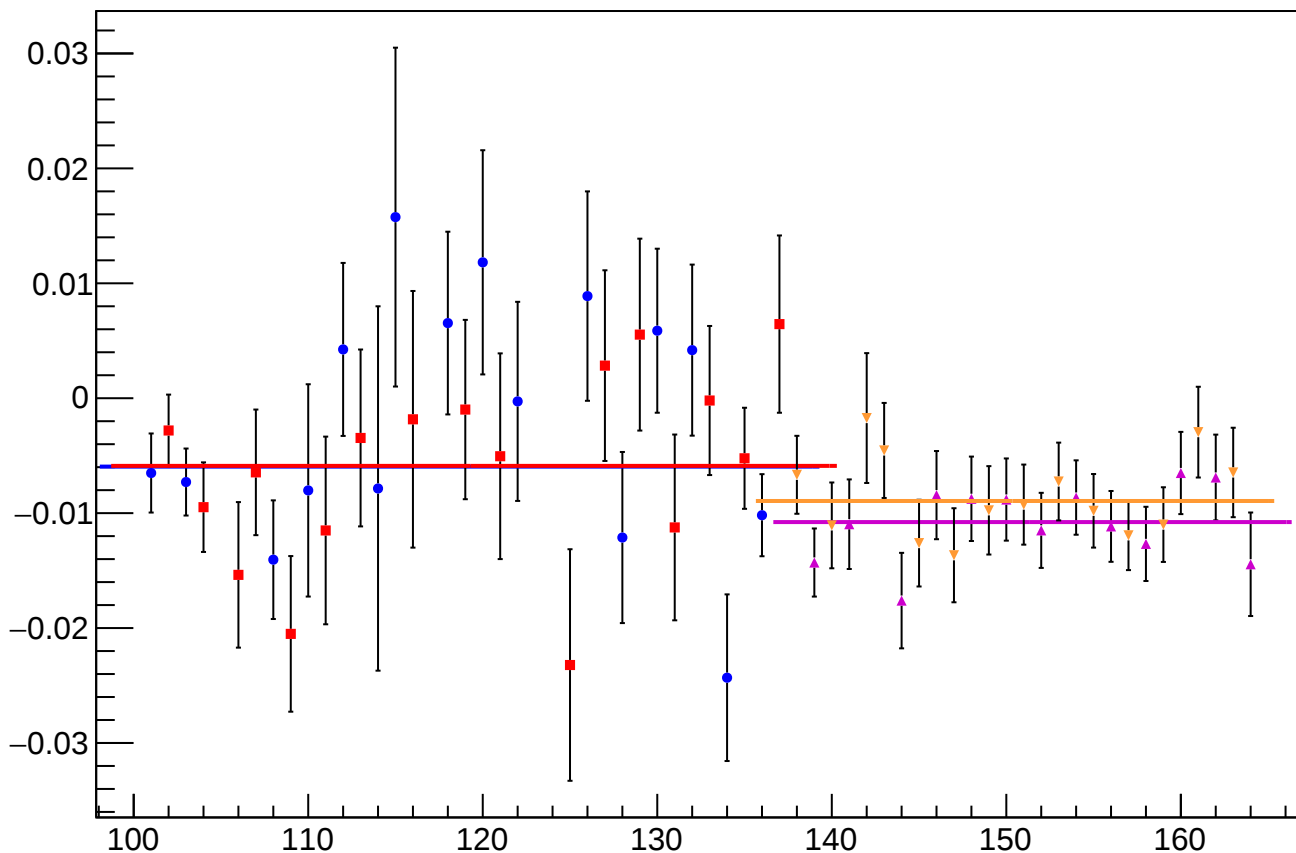
Left In:  $-0.055 \pm 0.021$   $\chi^2/\text{NDF}$ : 13.4/12

+ sign  $0.014 \pm 0.016$   $\chi^2/\text{NDF}$ : 45.0/29

All:  $-0.018 \pm 0.012$   $\chi^2/\text{NDF}$ : 92.1/59

- sign  $-0.053 \pm 0.017$   $\chi^2/\text{NDF}$ : 39.0/29

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 28.7/15

Left Out: -0.009 $\pm$ 0.001  $\chi^2$ /NDF:10.3/13

Right Out: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 19.6/16

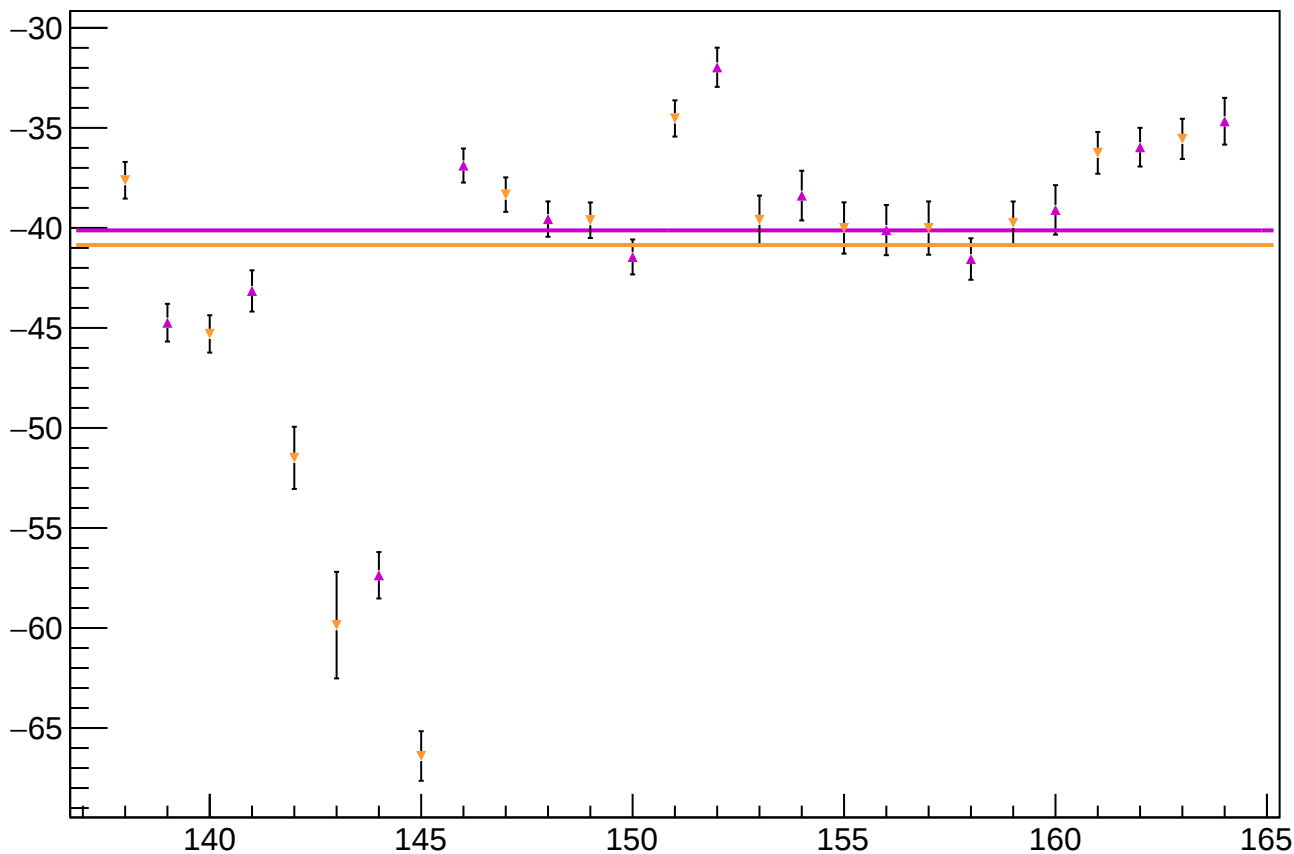
Left In: -0.011 $\pm$ 0.001  $\chi^2$ /NDF:9.1/12

+ sign -0.008 $\pm$ 0.001  $\chi^2$ /NDF: 42.0/29

All: -0.009 $\pm$ 0.001  $\chi^2$ /NDF: 79.6/59

- sign -0.009 $\pm$ 0.001  $\chi^2$ /NDF: 36.4/29

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -40.856+/-0.289  $\chi^2/\text{NDF}$ : 667.1/13

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

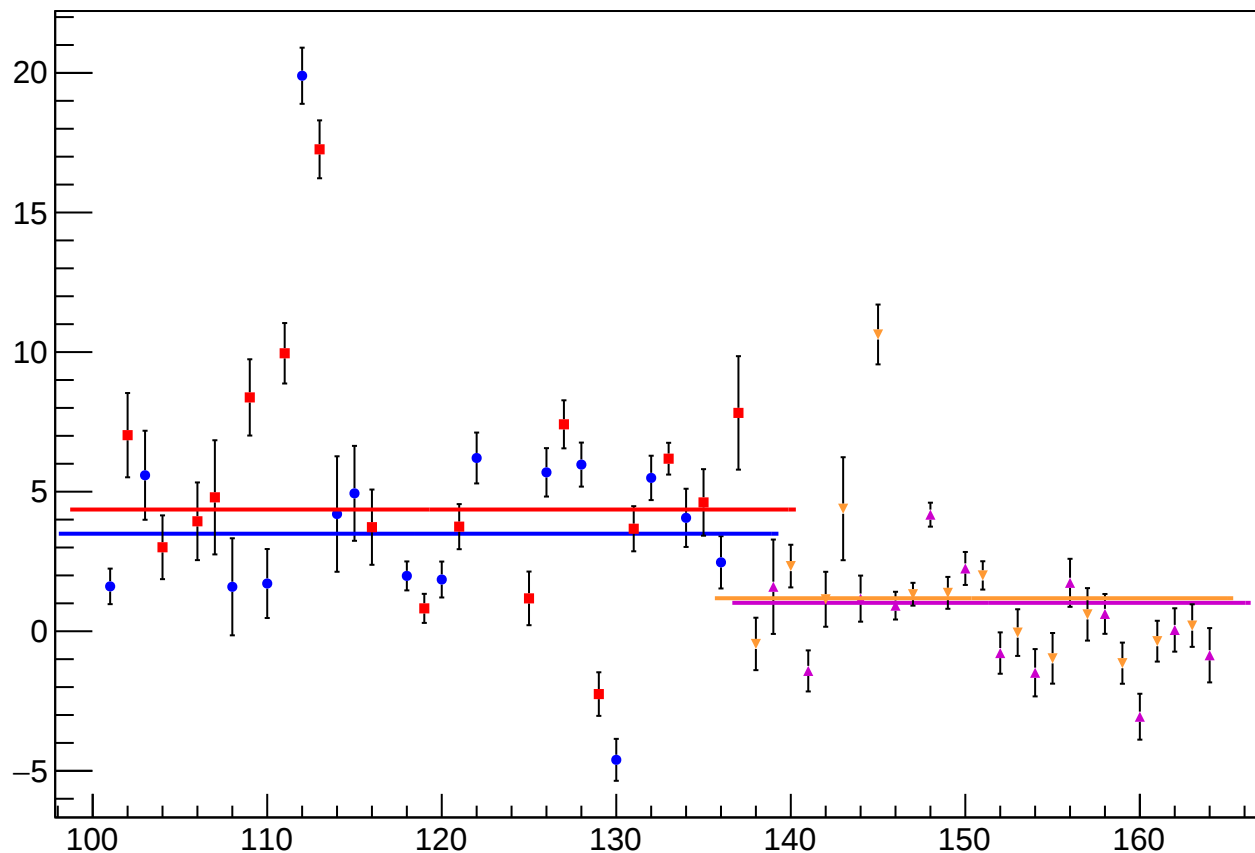
Left In: -40.123+/-0.283  $\chi^2/\text{NDF}$ : 384.6/12

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

All: -40.482+/-0.202  $\chi^2/\text{NDF}$ : 1055.0/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $1.183 \pm 0.192$   $\chi^2/\text{NDF}$ : 113.2/13

Right Out:  $4.360 \pm 0.225$   $\chi^2/\text{NDF}$ : 351.0/16

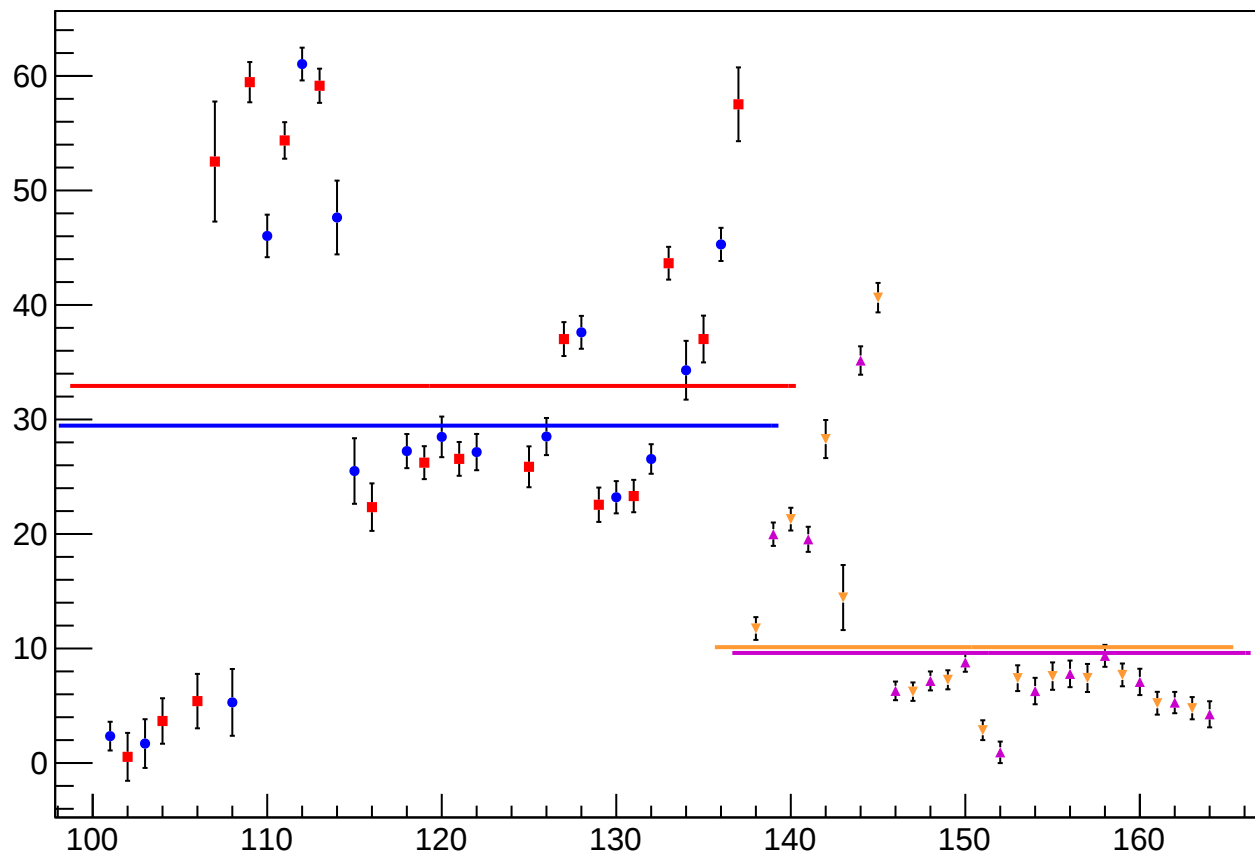
Left In:  $1.018 \pm 0.193$   $\chi^2/\text{NDF}$ : 115.3/12

+ sign  $2.193 \pm 0.144$   $\chi^2/\text{NDF}$ : 621.5/29

All:  $2.312 \pm 0.103$   $\chi^2/\text{NDF}$ : 1215.9/59

- sign  $2.435 \pm 0.147$   $\chi^2/\text{NDF}$ : 593.0/29

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 29.463+/-0.418  $\chi^2/\text{NDF}$ : 1491.6/15

Left Out: 10.117+/-0.281  $\chi^2/\text{NDF}$ :994.8/13

Right Out: 32.930+/-0.423  $\chi^2/\text{NDF}$ : 1624.4/16

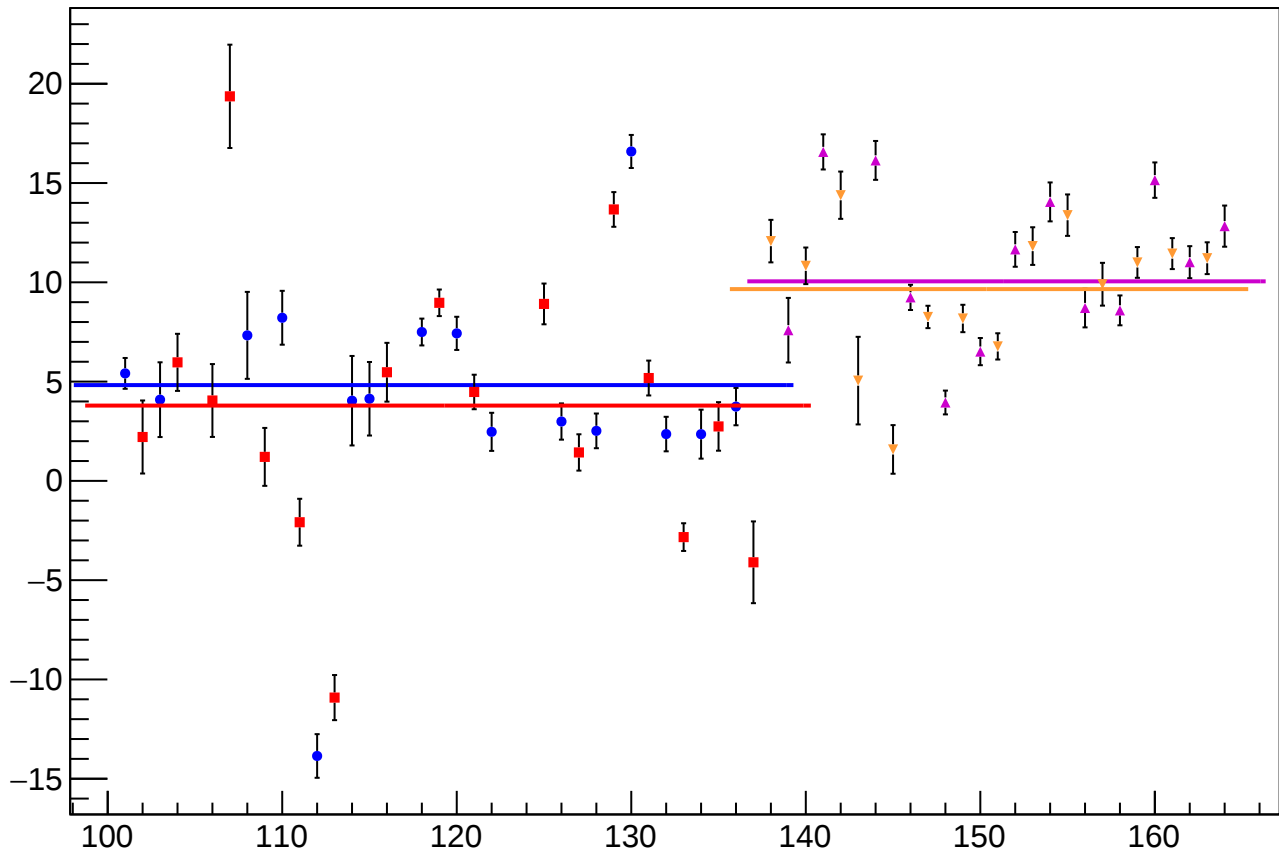
Left In: 9.612+/-0.274  $\chi^2/\text{NDF}$ :780.0/12

+ sign 16.145+/-0.233  $\chi^2/\text{NDF}$ : 3964.4/29

All: 16.324+/-0.164  $\chi^2/\text{NDF}$ : 8506.1/59

- sign 16.500+/-0.230  $\chi^2/\text{NDF}$ : 4540.5/29

# 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:  $9.658 \pm 0.230$   $\chi^2/\text{NDF}: 130.2/13$

Right Out:  $3.792 \pm 0.259$   $\chi^2/\text{NDF}: 563.6/16$

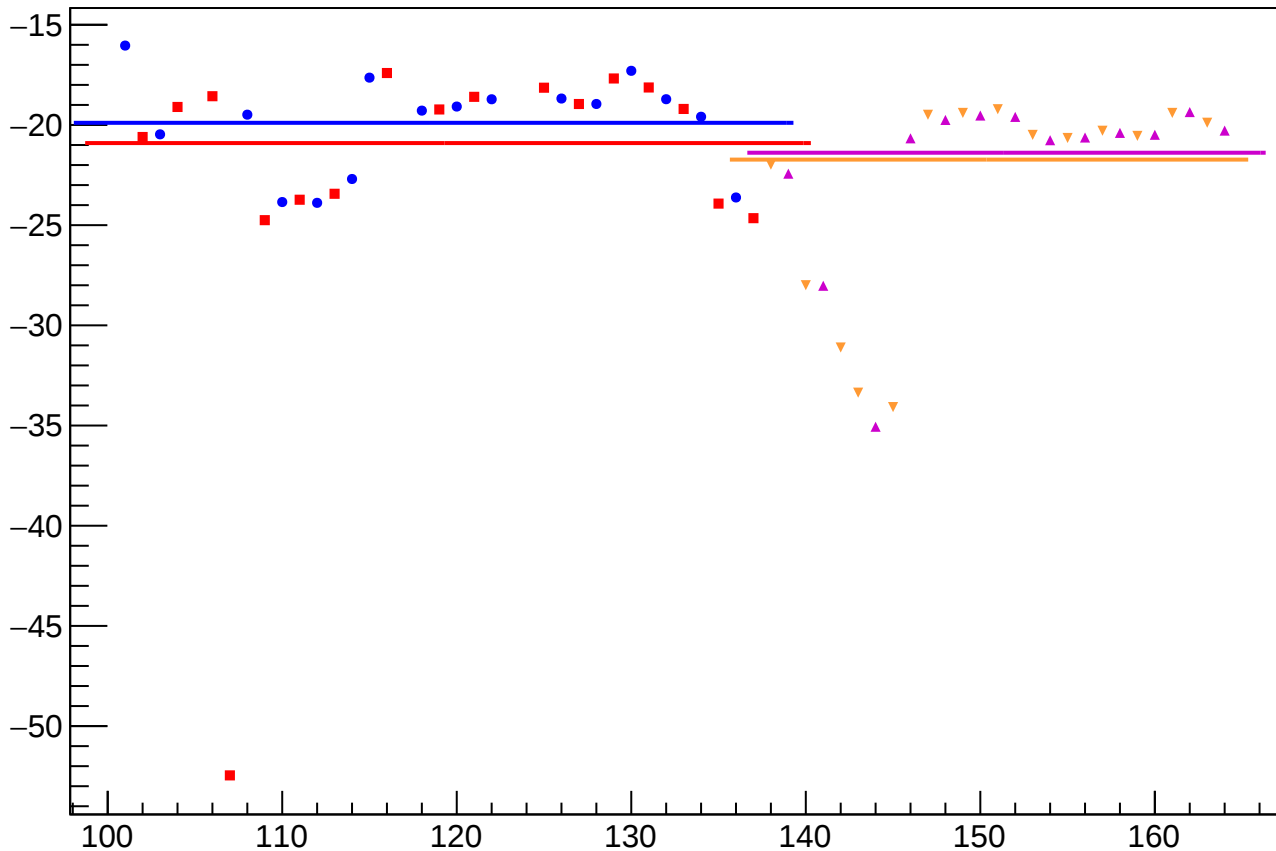
Left In:  $10.049 \pm 0.230$   $\chi^2/\text{NDF}: 294.1/12$

+ sign  $7.460 \pm 0.170$   $\chi^2/\text{NDF}: 884.4/29$

All:  $7.379 \pm 0.121$   $\chi^2/\text{NDF}: 2069.4/59$

- sign  $7.295 \pm 0.172$   $\chi^2/\text{NDF}: 1184.5/29$

# 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:  $-21.728 \pm 0.011$   $\chi^2/\text{NDF}: 132178.3/13$

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}: 92802.8/16$

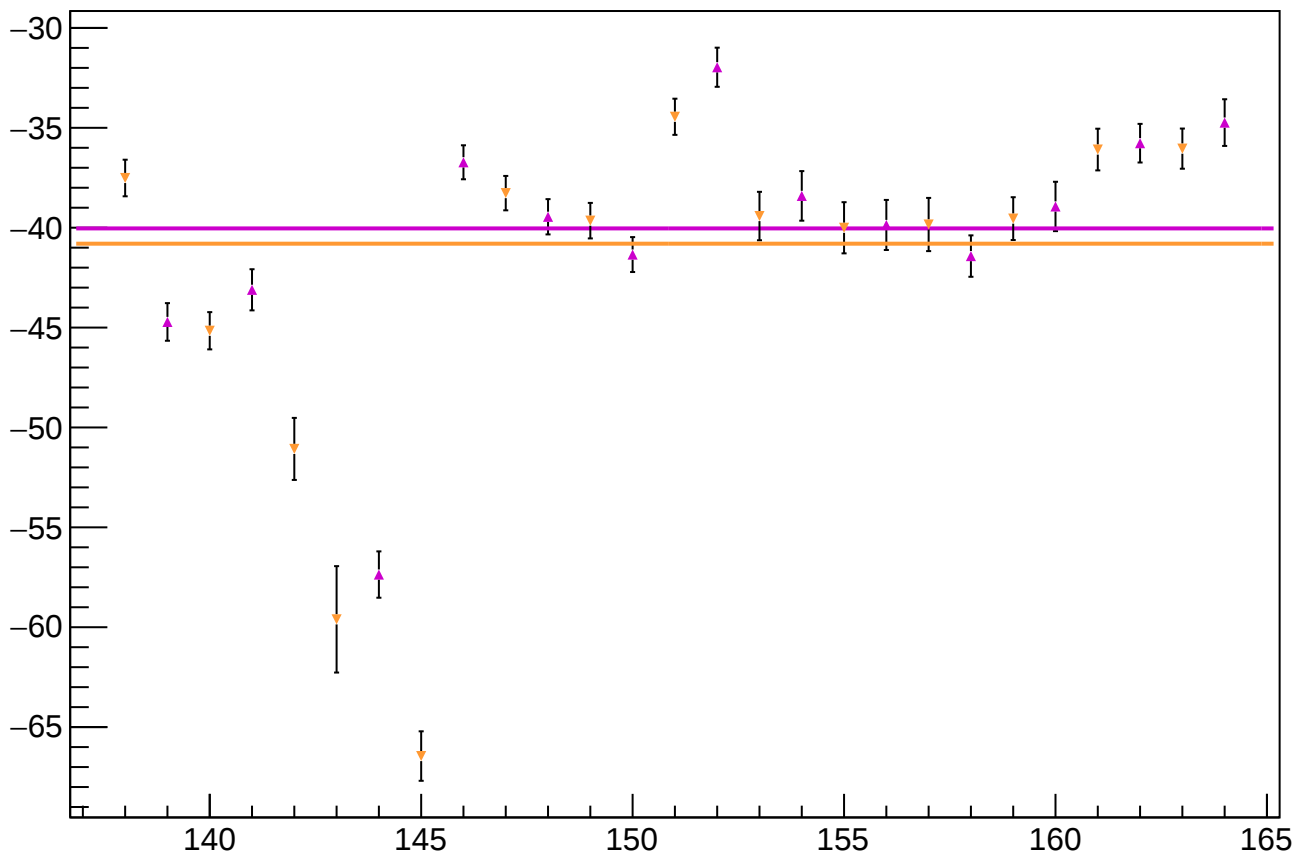
Left In:  $-21.385 \pm 0.011$   $\chi^2/\text{NDF}: 99461.4/12$

+ sign  $-21.106 \pm 0.009$   $\chi^2/\text{NDF}: 167442.5/29$

All:  $-21.169 \pm 0.006$   $\chi^2/\text{NDF}: 360438.3/59$

- sign  $-21.230 \pm 0.009$   $\chi^2/\text{NDF}: 192900.1/29$

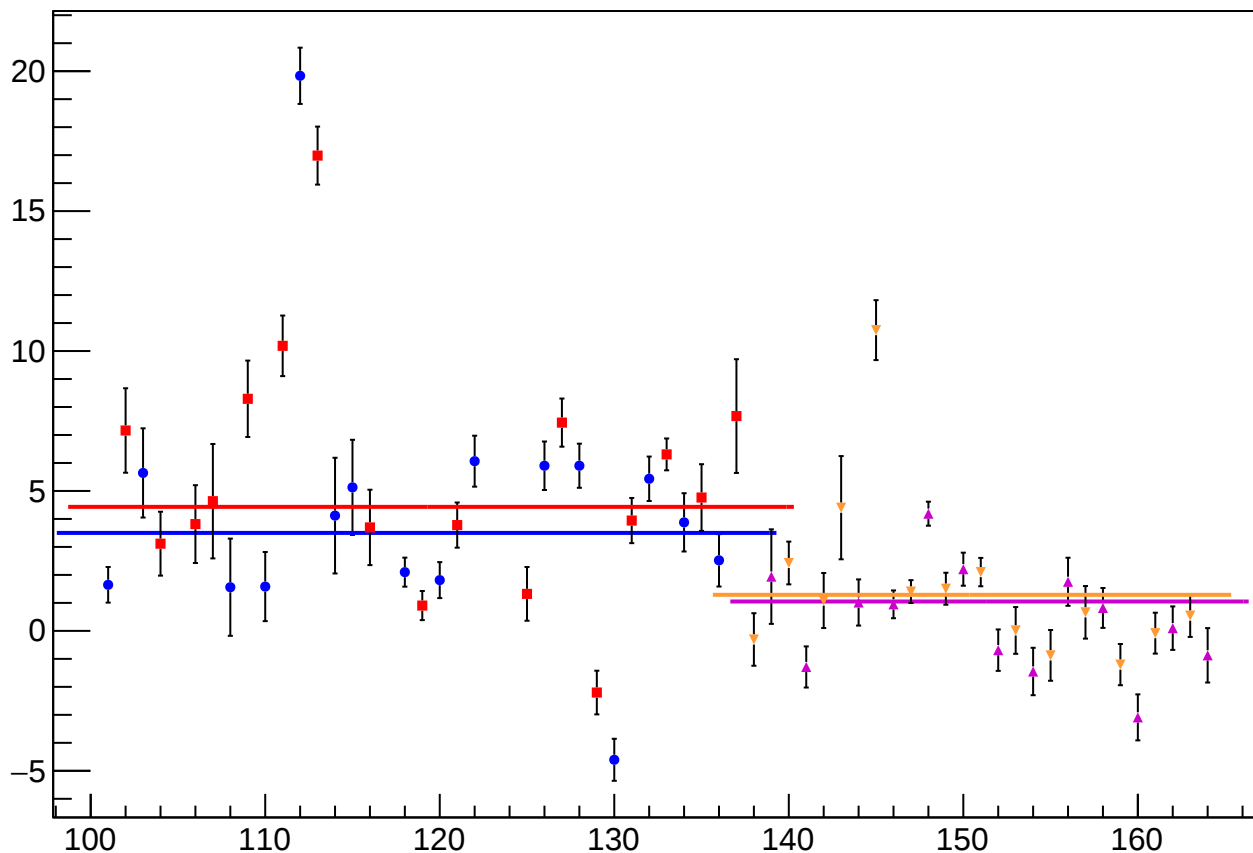
# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.800+/-0.288  $\chi^2/\text{NDF}$ : 663.0/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.036+/-0.283  $\chi^2/\text{NDF}$ : 386.8/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -40.411+/-0.202  $\chi^2/\text{NDF}$ : 1053.4/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $1.289 \pm 0.192$   $\chi^2/\text{NDF}$ : 113.2/13

Right Out:  $4.432 \pm 0.225$   $\chi^2/\text{NDF}$ : 343.6/16

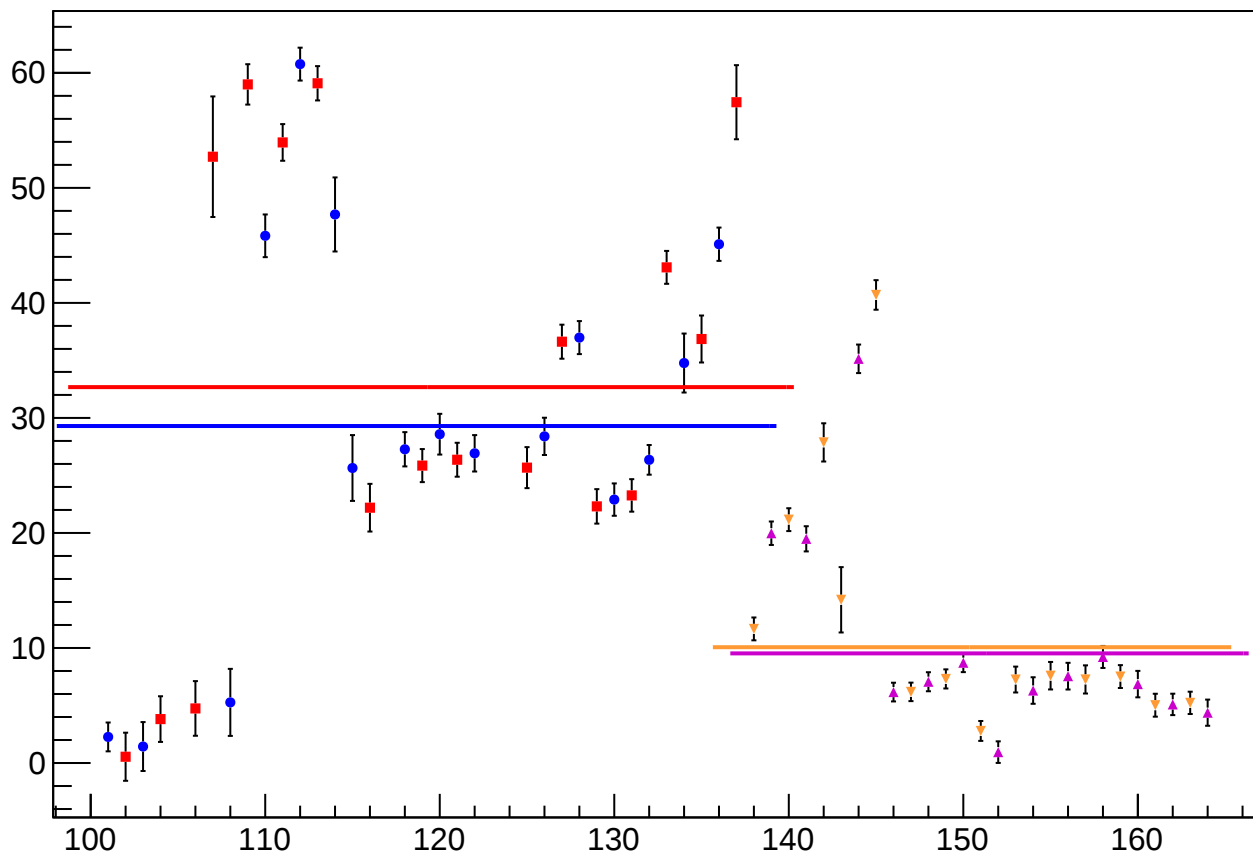
Left In:  $1.050 \pm 0.193$   $\chi^2/\text{NDF}$ : 113.6/12

+ sign  $2.256 \pm 0.144$   $\chi^2/\text{NDF}$ : 613.4/29

All:  $2.368 \pm 0.103$   $\chi^2/\text{NDF}$ : 1201.7/59

- sign  $2.485 \pm 0.147$   $\chi^2/\text{NDF}$ : 587.1/29

# 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:  $10.067 \pm 0.281$   $\chi^2/\text{NDF}: 989.8/13$

Right Out:  $32.679 \pm 0.423$   $\chi^2/\text{NDF}: 1614.8/16$

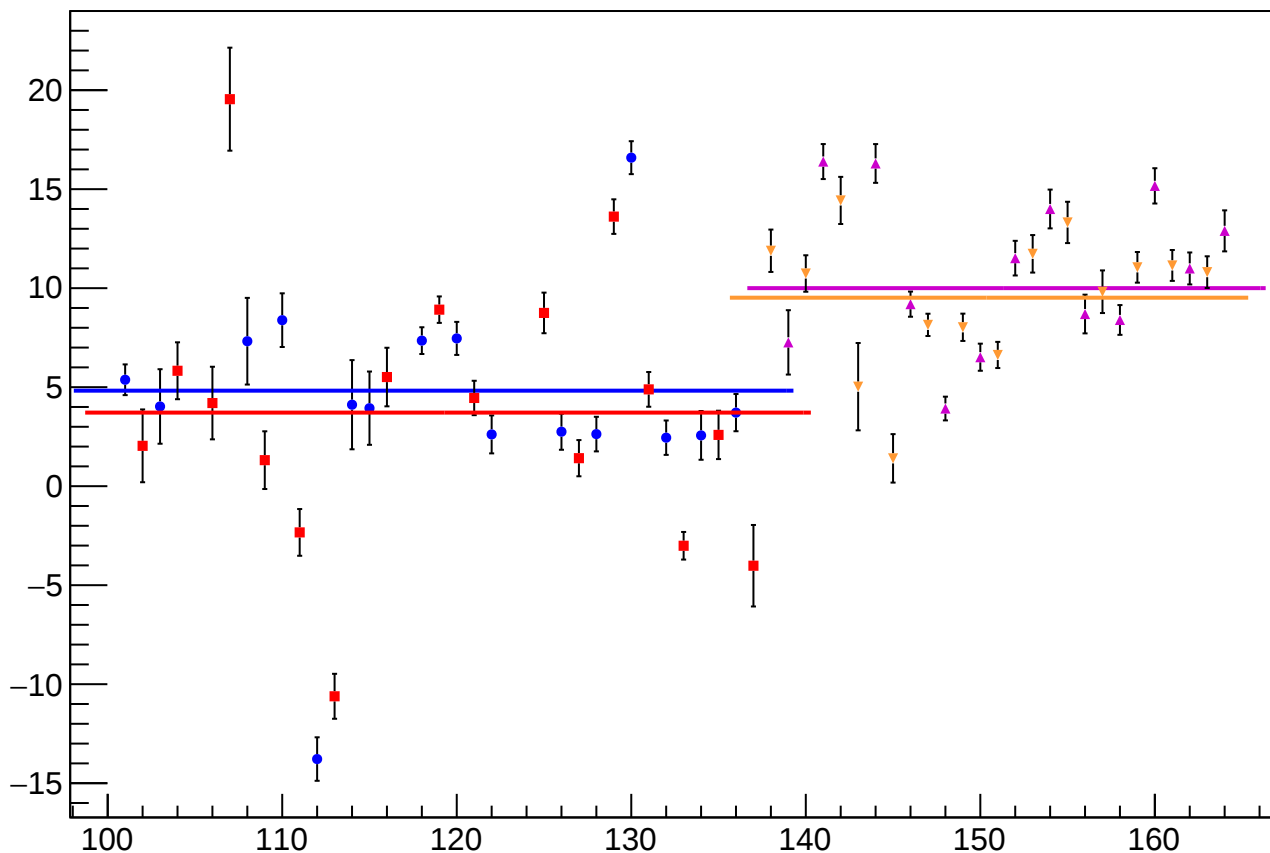
Left In:  $9.530 \pm 0.274$   $\chi^2/\text{NDF}: 784.1/12$

+ sign  $16.059 \pm 0.233$   $\chi^2/\text{NDF}: 3937.3/29$

All:  $16.216 \pm 0.164$   $\chi^2/\text{NDF}: 8445.1/59$

- sign  $16.369 \pm 0.230$   $\chi^2/\text{NDF}: 4506.9/29$

# 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:  $9.519 \pm 0.230$   $\chi^2/\text{NDF}$ : 131.3/13

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}$ : 559.9/16

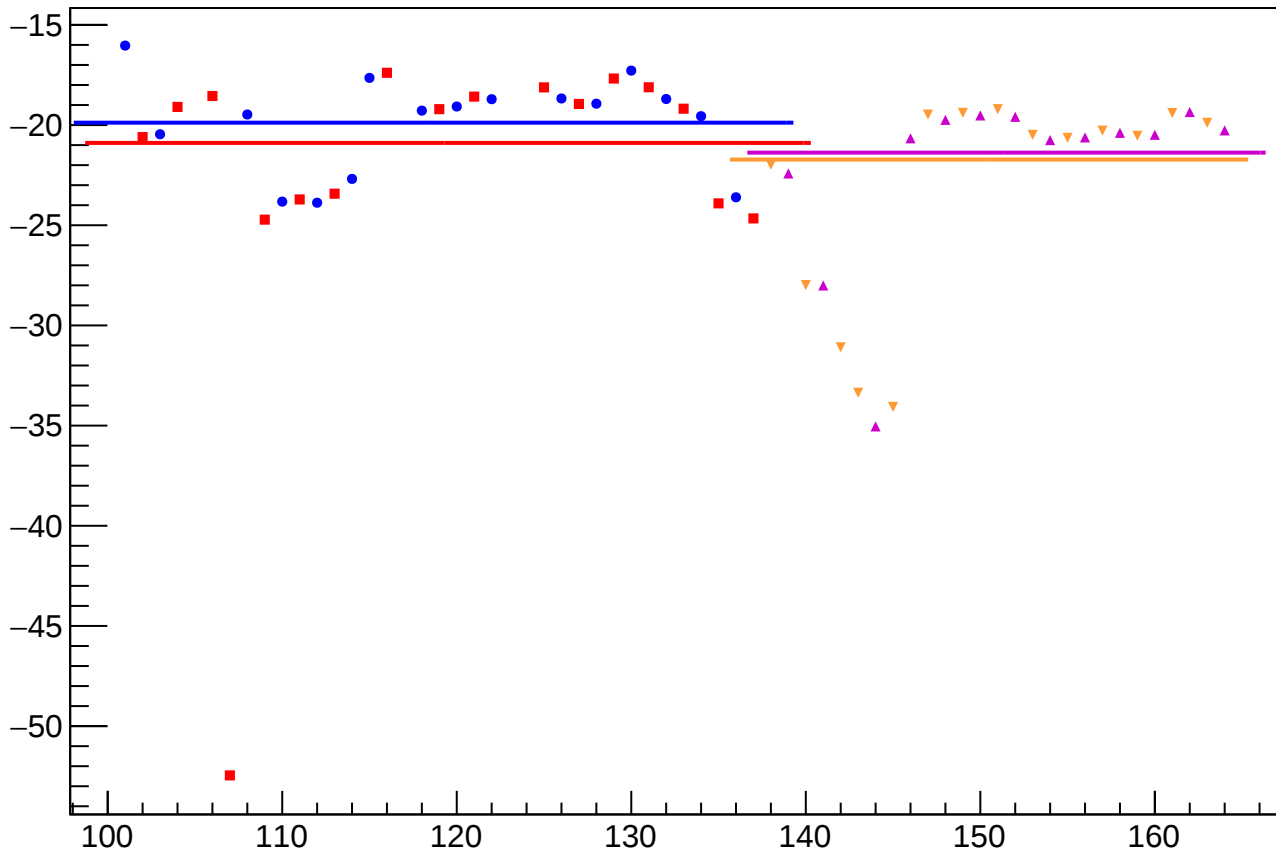
Left In:  $10.002 \pm 0.230$   $\chi^2/\text{NDF}$ : 296.0/12

+ sign  $7.384 \pm 0.170$   $\chi^2/\text{NDF}$ : 870.6/29

All:  $7.310 \pm 0.121$   $\chi^2/\text{NDF}$ : 2057.1/59

- sign  $7.234 \pm 0.172$   $\chi^2/\text{NDF}$ : 1186.1/29

# 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:  $-21.721 \pm 0.011$   $\chi^2/\text{NDF}$ : 132236.8/13

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}$ : 92913.6/16

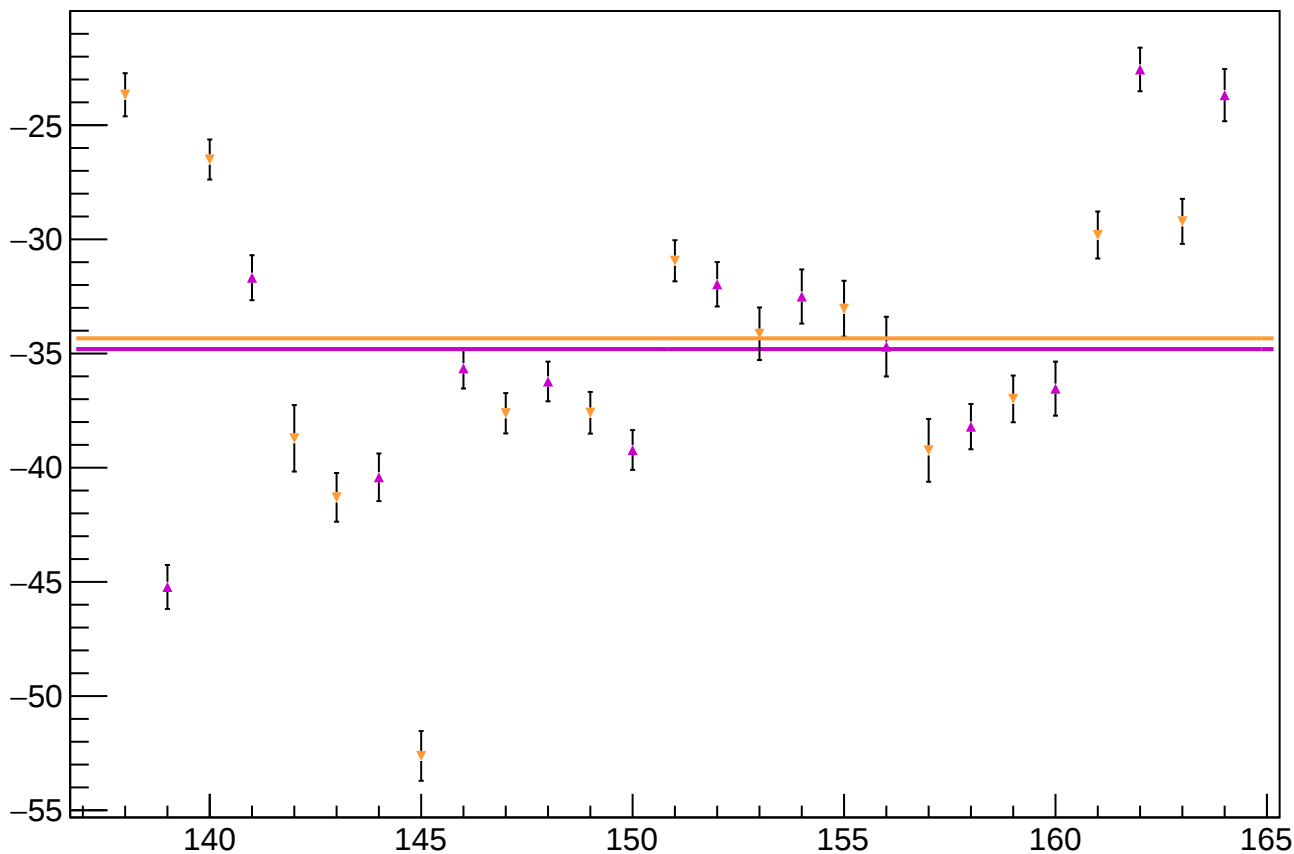
Left In:  $-21.375 \pm 0.011$   $\chi^2/\text{NDF}$ : 99397.4/12

+ sign  $-21.097 \pm 0.009$   $\chi^2/\text{NDF}$ : 167550.3/29

All:  $-21.159 \pm 0.006$   $\chi^2/\text{NDF}$ : 360598.1/59

- sign  $-21.219 \pm 0.009$   $\chi^2/\text{NDF}$ : 192955.4/29

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -34.334+/-0.275  $\chi^2/\text{NDF}$ : 648.3/13

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

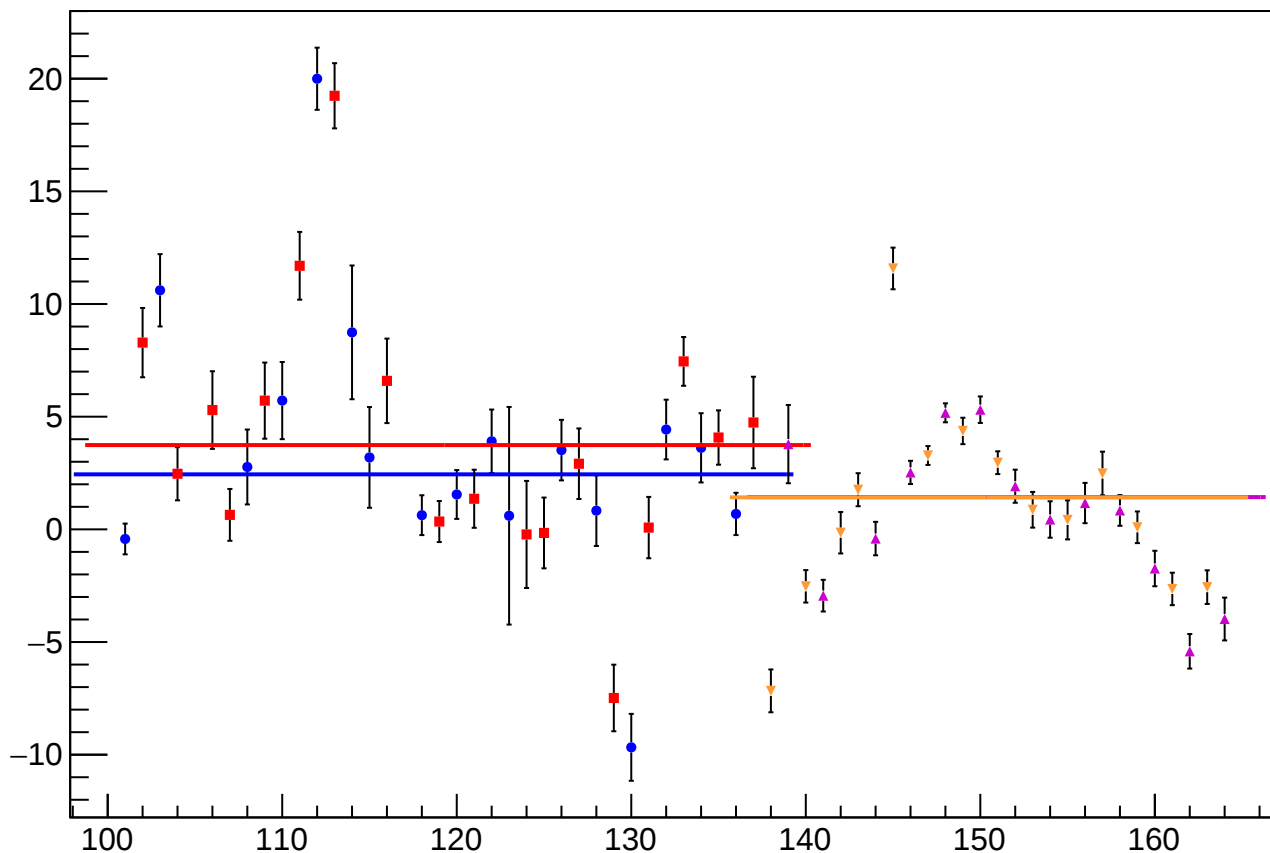
Left In: -34.804+/-0.278  $\chi^2/\text{NDF}$ : 471.6/12

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

All: -34.567+/-0.196  $\chi^2/\text{NDF}$ : 1121.3/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $1.420 \pm 0.184$   $\chi^2/\text{NDF}: 356.7/13$

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}: 268.1/17$

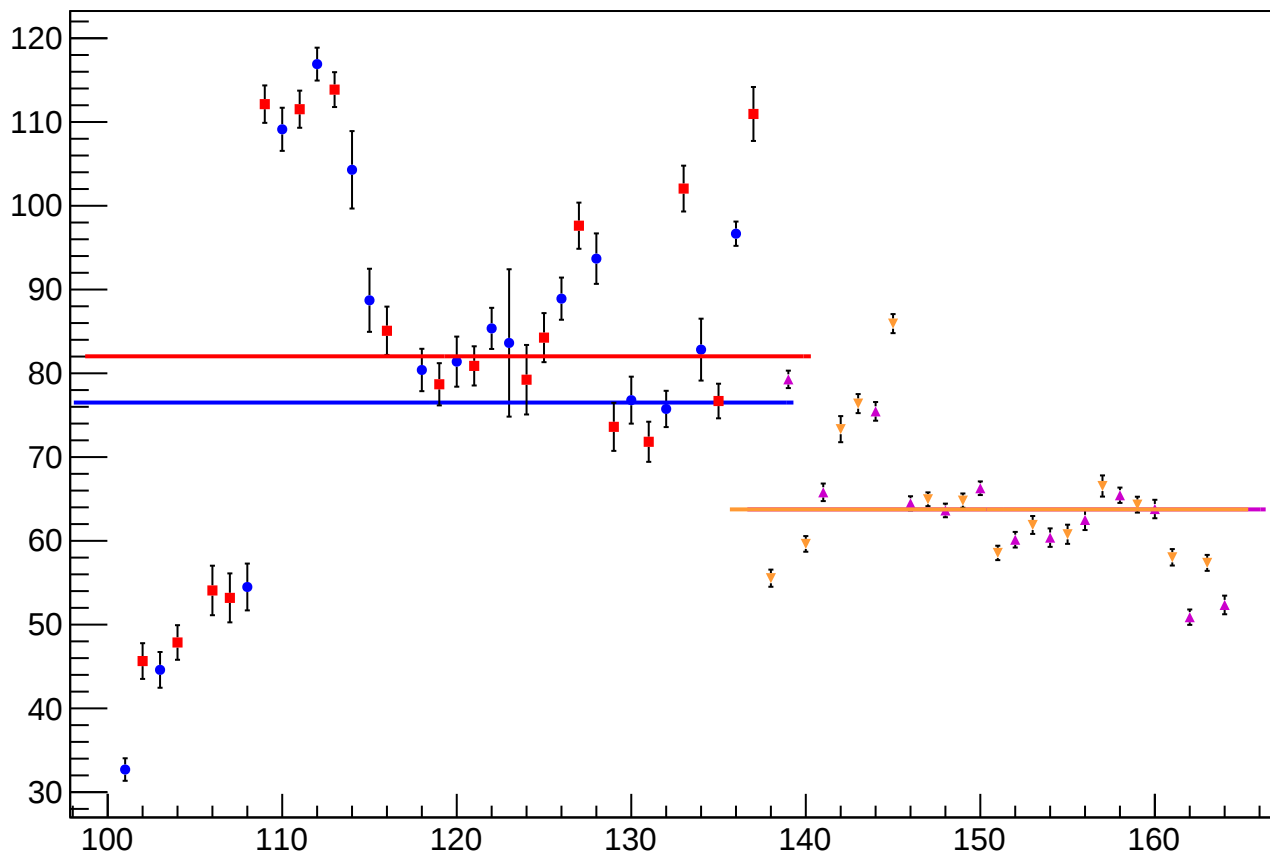
Left In:  $1.432 \pm 0.190$   $\chi^2/\text{NDF}: 304.7/12$

+ sign  $1.685 \pm 0.158$   $\chi^2/\text{NDF}: 659.4/30$

All:  $1.844 \pm 0.114$   $\chi^2/\text{NDF}: 1271.6/61$

- sign  $2.016 \pm 0.164$   $\chi^2/\text{NDF}: 610.1/30$

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.509+/-0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 63.754+/-0.270  $\chi^2$ /NDF: 759.2/13

Right Out: 82.029+/-0.593  $\chi^2$ /NDF: 1548.0/17

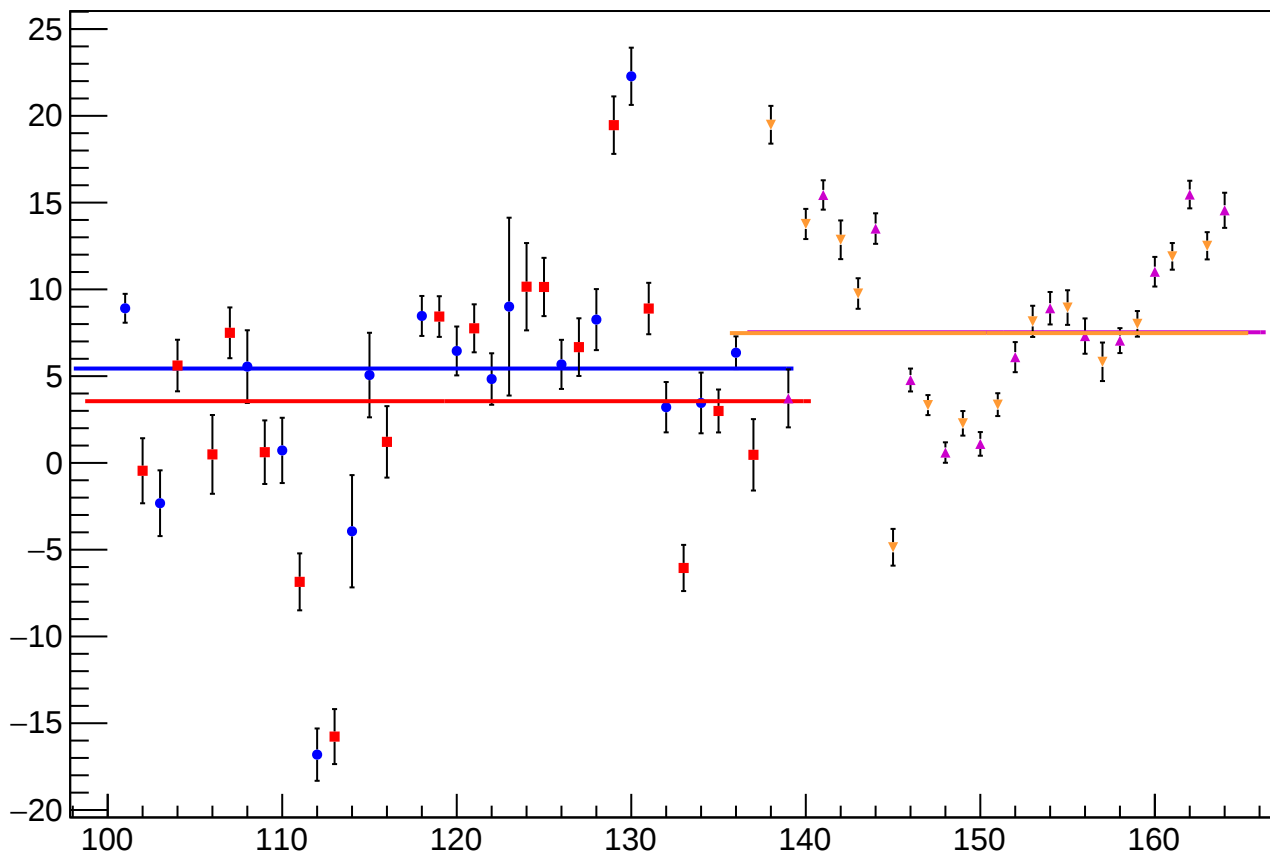
Left In: 63.753+/-0.270  $\chi^2$ /NDF: 677.2/12

+ sign 66.057+/-0.244  $\chi^2$ /NDF: 3414.5/30

All: 66.473+/-0.173  $\chi^2$ /NDF: 6433.1/61

- sign 66.894+/-0.246  $\chi^2$ /NDF: 3012.8/30

# 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:  $7.480 \pm 0.220$   $\chi^2/\text{NDF}: 564.6/13$

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}: 420.6/17$

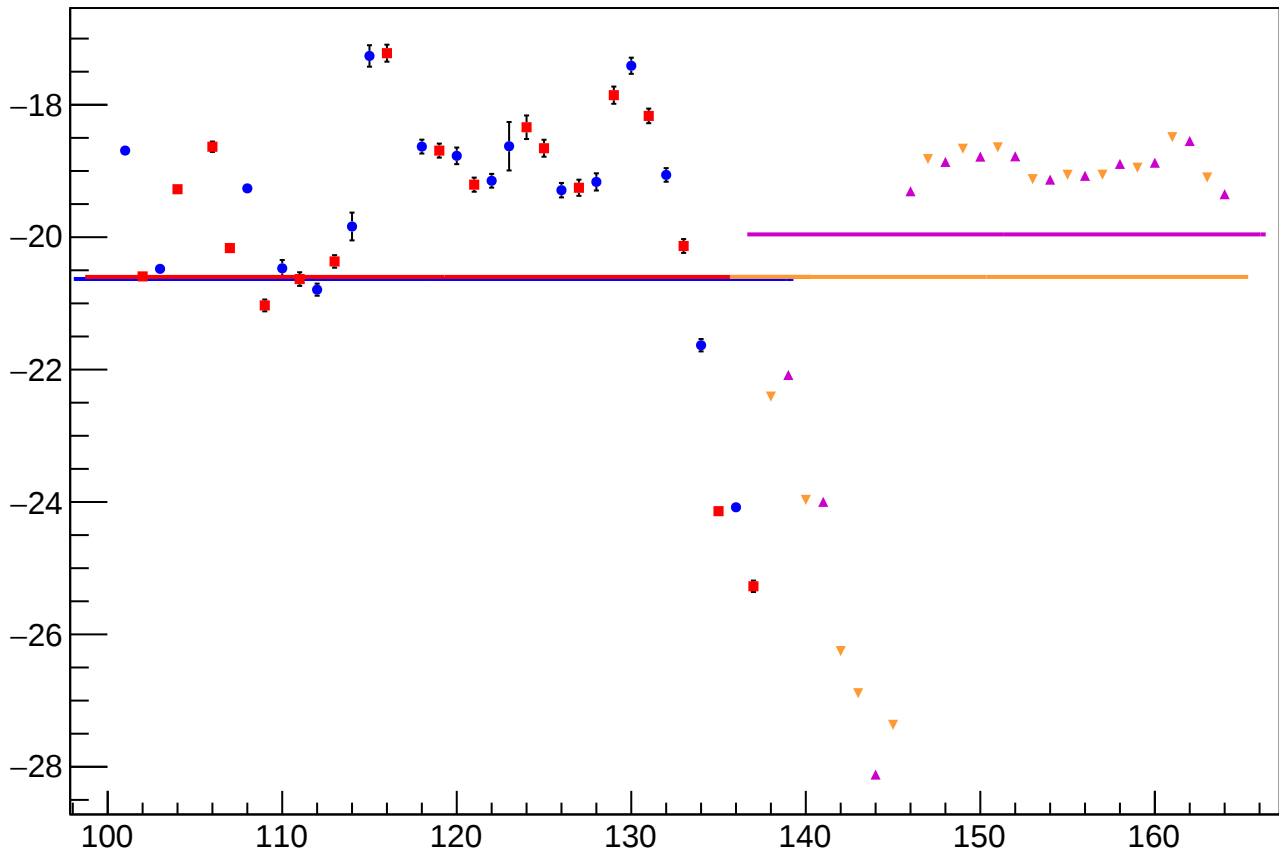
Left In:  $7.528 \pm 0.225$   $\chi^2/\text{NDF}: 553.1/12$

+ sign  $6.920 \pm 0.187$   $\chi^2/\text{NDF}: 974.4/30$

All:  $6.704 \pm 0.135$   $\chi^2/\text{NDF}: 2033.1/61$

- sign  $6.475 \pm 0.193$   $\chi^2/\text{NDF}: 1056.0/30$

# 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:  $-20.601 \pm 0.011$   $\chi^2/\text{NDF}$ : 77665.1/13

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}$ : 11973.7/17

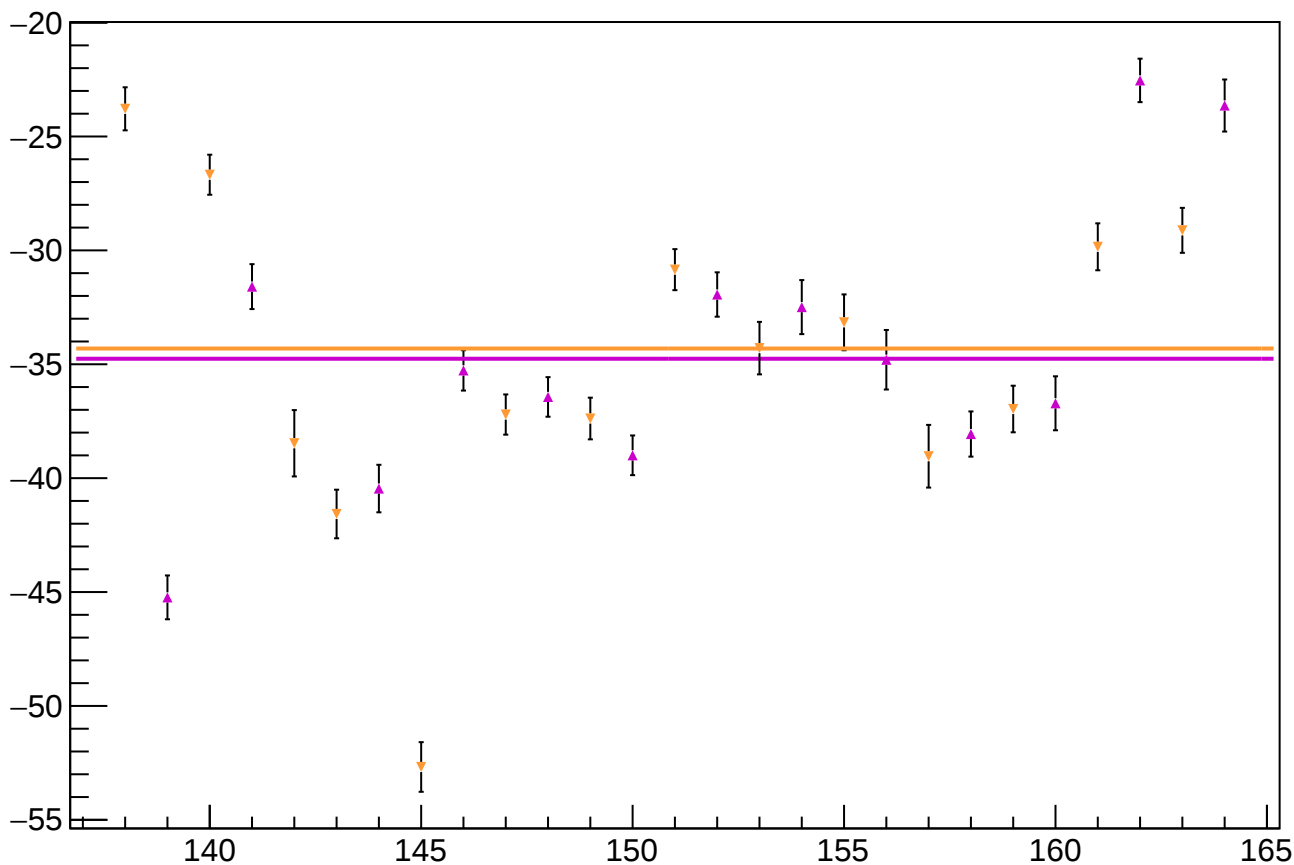
Left In:  $-19.958 \pm 0.011$   $\chi^2/\text{NDF}$ : 48230.7/12

+ sign  $-20.608 \pm 0.009$   $\chi^2/\text{NDF}$ : 90168.7/30

All:  $-20.357 \pm 0.007$   $\chi^2/\text{NDF}$ : 152647.3/61

- sign  $-20.106 \pm 0.009$   $\chi^2/\text{NDF}$ : 61041.8/30

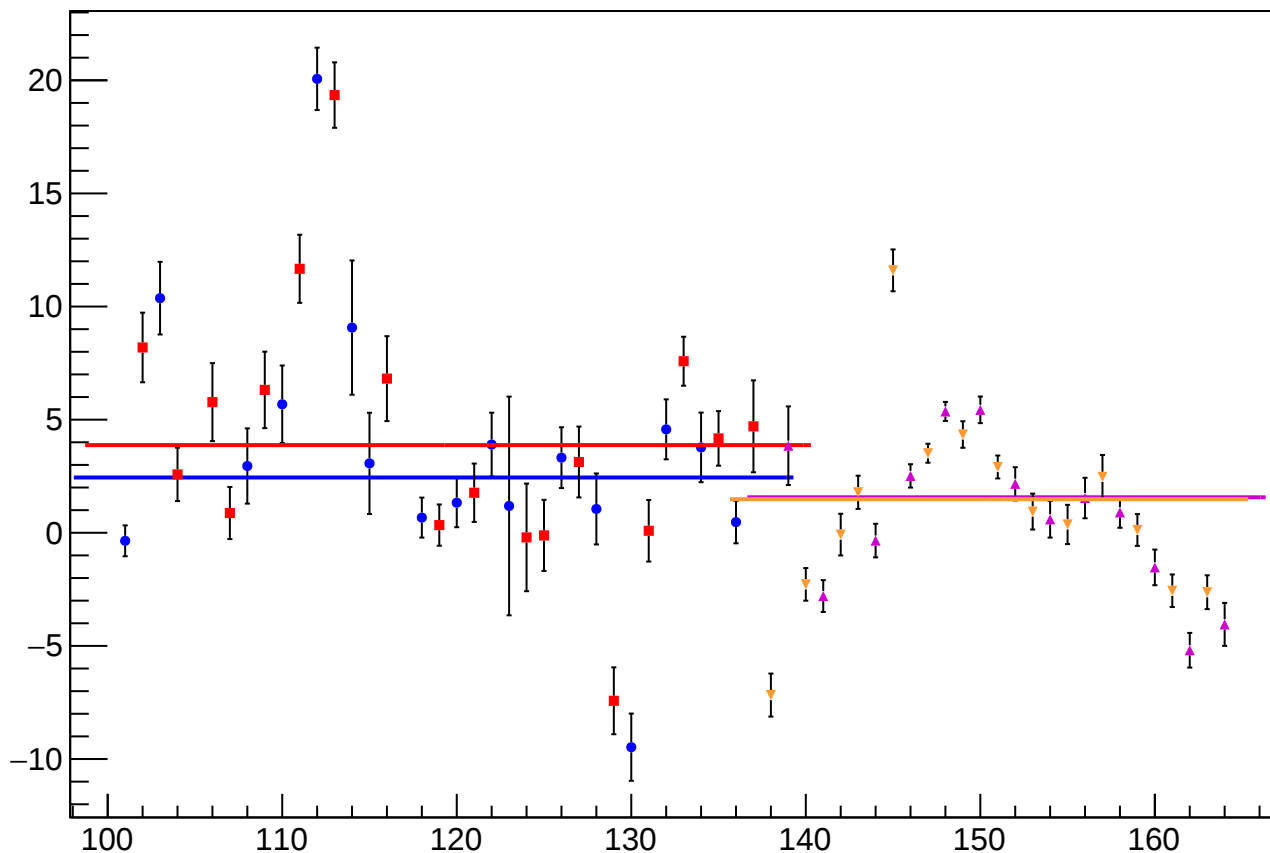
# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.309+/-0.275  $\chi^2/\text{NDF}$ : 640.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.758+/-0.279  $\chi^2/\text{NDF}$ : 470.9/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -34.531+/-0.196  $\chi^2/\text{NDF}$ : 1112.9/26  
 - 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:  $1.483 \pm 0.184$   $\chi^2/\text{NDF}$ : 356.8/13

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

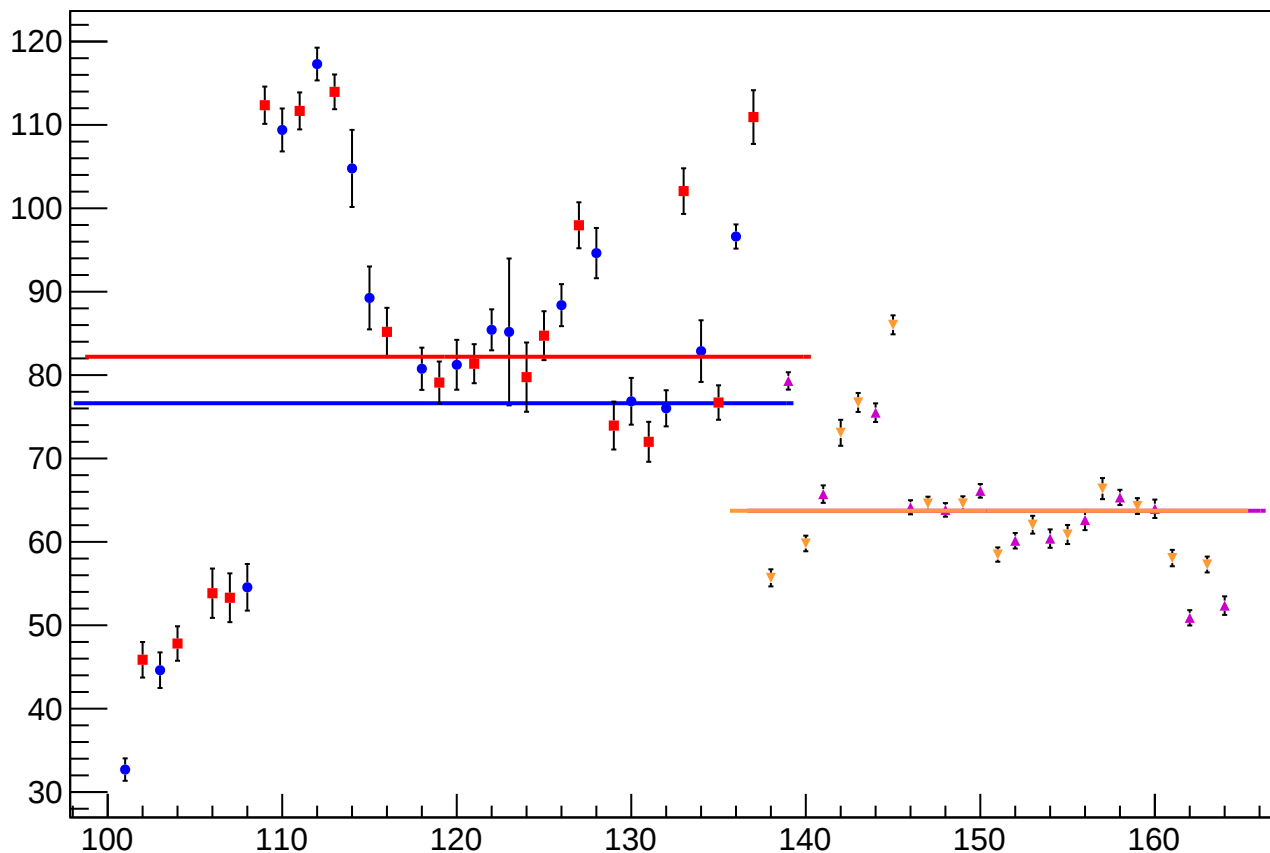
Left In:  $1.569 \pm 0.190$   $\chi^2/\text{NDF}$ : 305.7/12

+ sign  $1.732 \pm 0.159$   $\chi^2/\text{NDF}$ : 656.6/30

All:  $1.934 \pm 0.114$   $\chi^2/\text{NDF}$ : 1271.1/61

- sign  $2.152 \pm 0.164$   $\chi^2/\text{NDF}$ : 611.1/30

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 76.626 $\pm$ 0.574  $\chi^2$ /NDF: 2262.8/16

Left Out: 63.732 $\pm$ 0.270  $\chi^2$ /NDF: 761.3/13

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

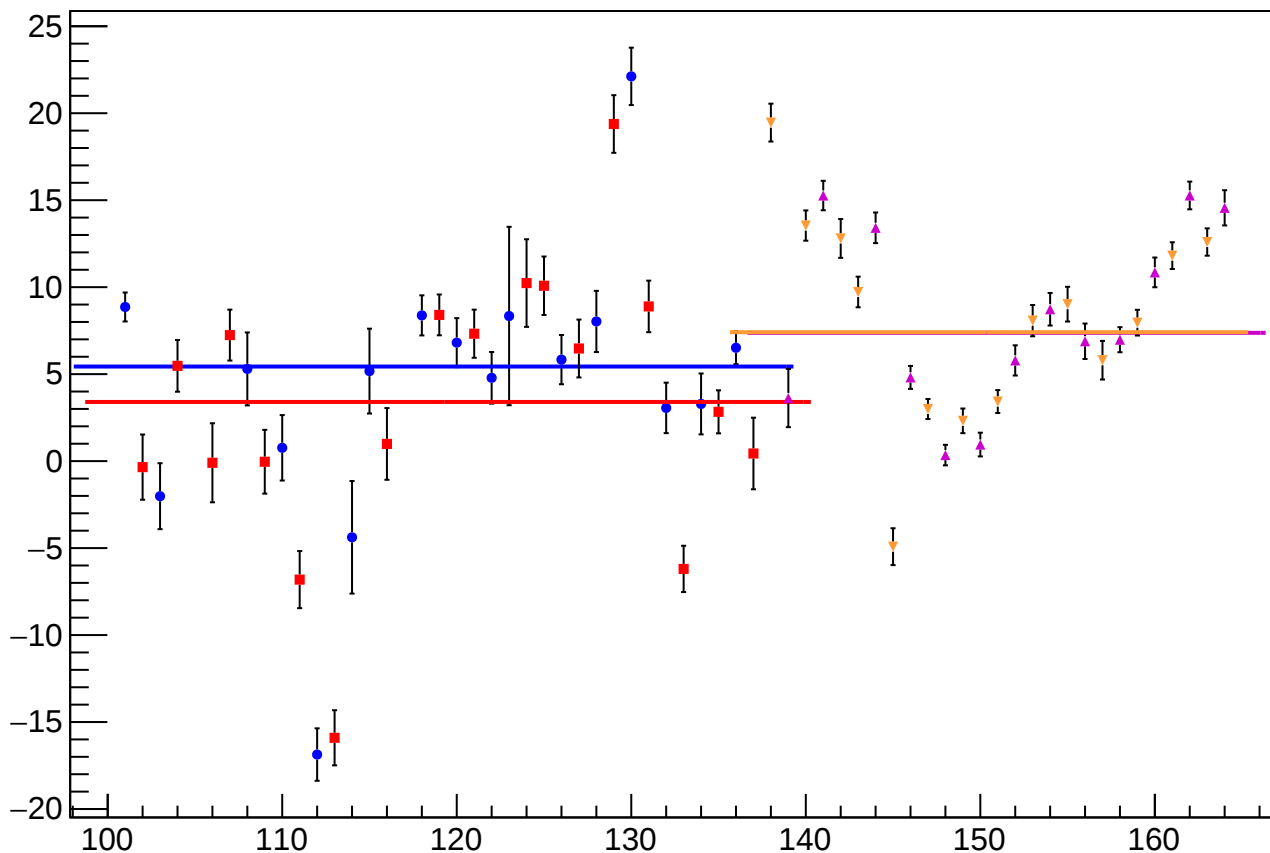
Left In: 63.732 $\pm$ 0.270  $\chi^2$ /NDF: 674.7/12

+ sign 66.060 $\pm$ 0.244  $\chi^2$ /NDF: 3436.9/30

All: 66.480 $\pm$ 0.173  $\chi^2$ /NDF: 6471.2/61

- sign 66.907 $\pm$ 0.246  $\chi^2$ /NDF: 3028.3/30

# 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:  $7.410 \pm 0.220$   $\chi^2/\text{NDF}: 567.0/13$

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}: 420.9/17$

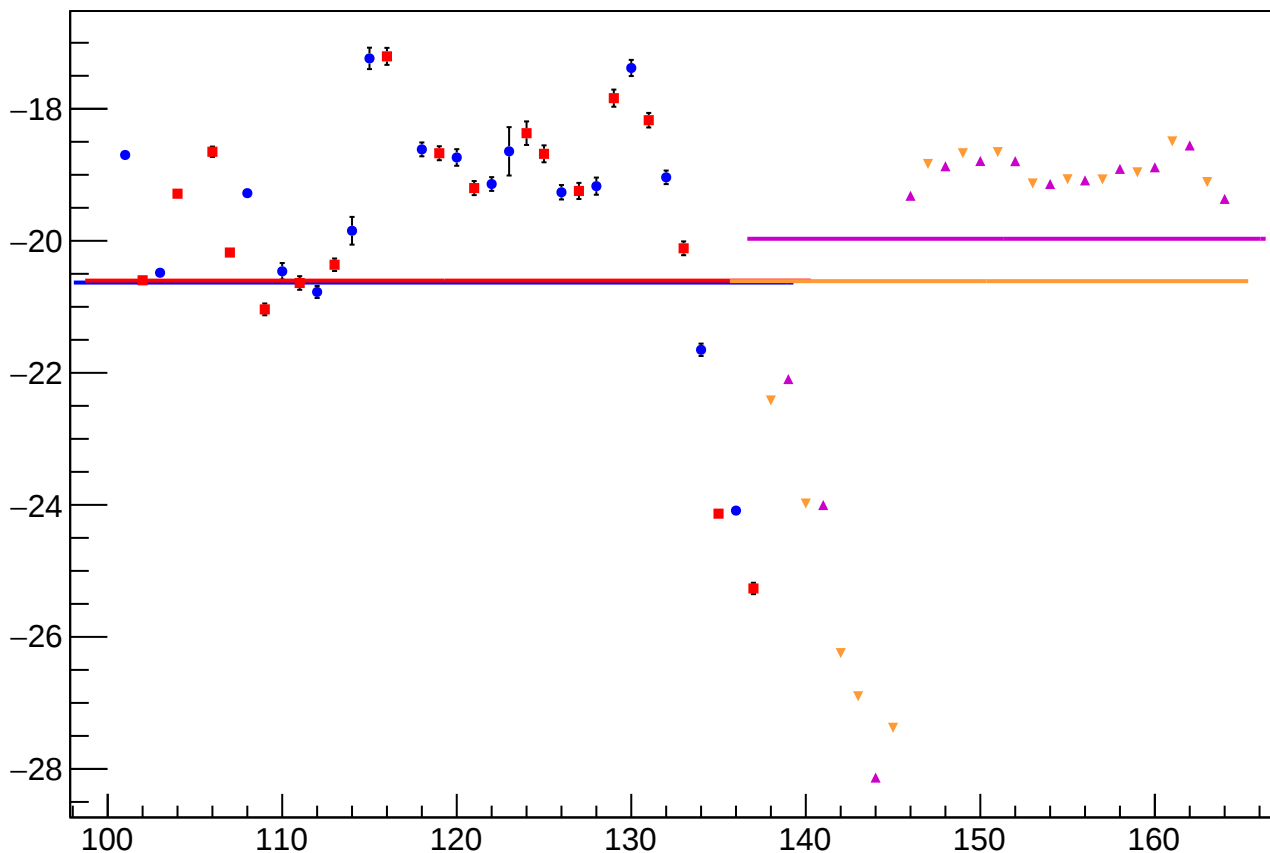
Left In:  $7.375 \pm 0.226$   $\chi^2/\text{NDF}: 555.8/12$

+ sign  $6.869 \pm 0.187$   $\chi^2/\text{NDF}: 973.6/30$

All:  $6.603 \pm 0.135$   $\chi^2/\text{NDF}: 2036.7/61$

- sign  $6.320 \pm 0.193$   $\chi^2/\text{NDF}: 1059.0/30$

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.632 \pm 0.019$   $\chi^2/\text{NDF}: 12543.2/16$

Left Out:  $-20.611 \pm 0.011$   $\chi^2/\text{NDF}: 77517.0/13$

Right Out:  $-20.603 \pm 0.019$   $\chi^2/\text{NDF}: 11925.8/17$

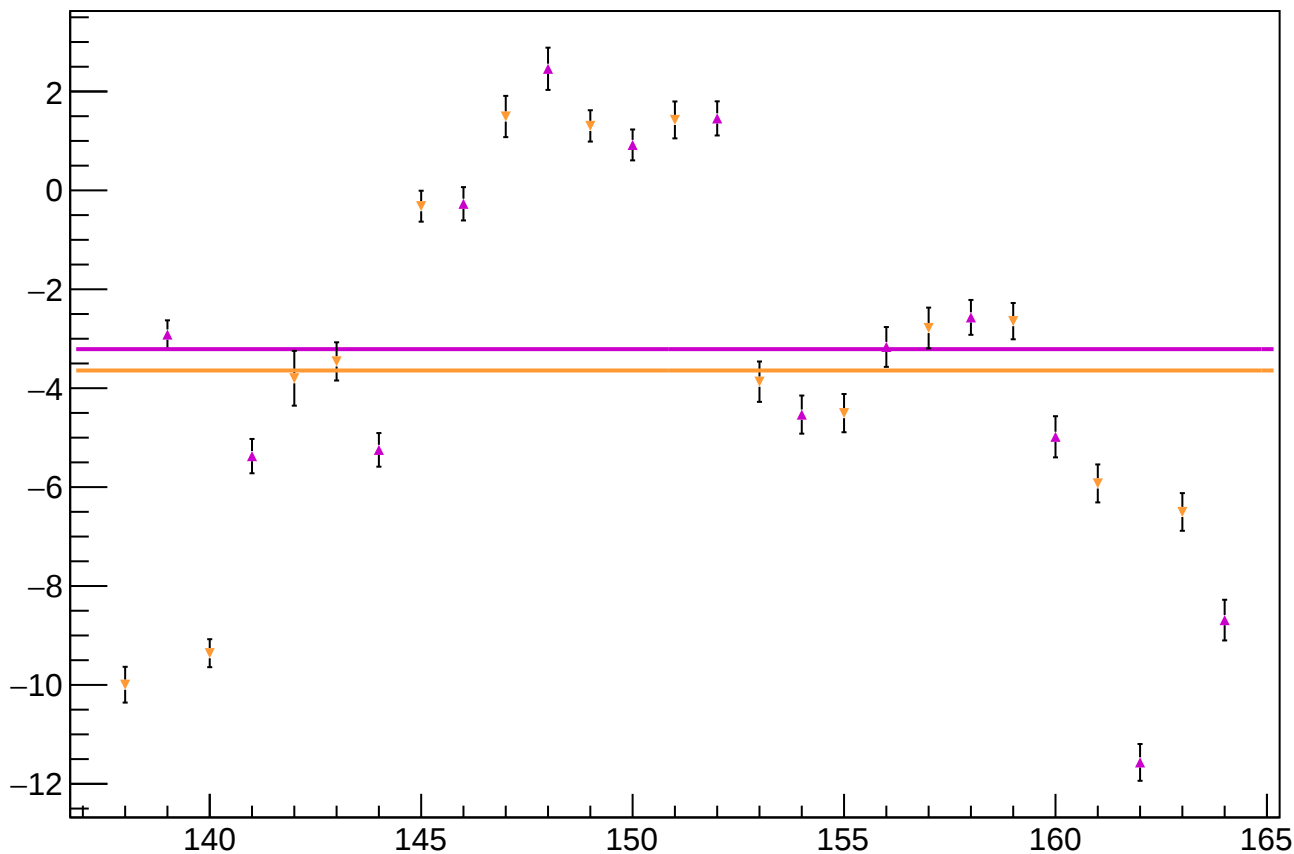
Left In:  $-19.969 \pm 0.011$   $\chi^2/\text{NDF}: 48161.9/12$

+ sign  $-20.616 \pm 0.009$   $\chi^2/\text{NDF}: 90061.2/30$

All:  $-20.366 \pm 0.007$   $\chi^2/\text{NDF}: 152393.2/61$

- sign  $-20.116 \pm 0.009$   $\chi^2/\text{NDF}: 60903.0/30$

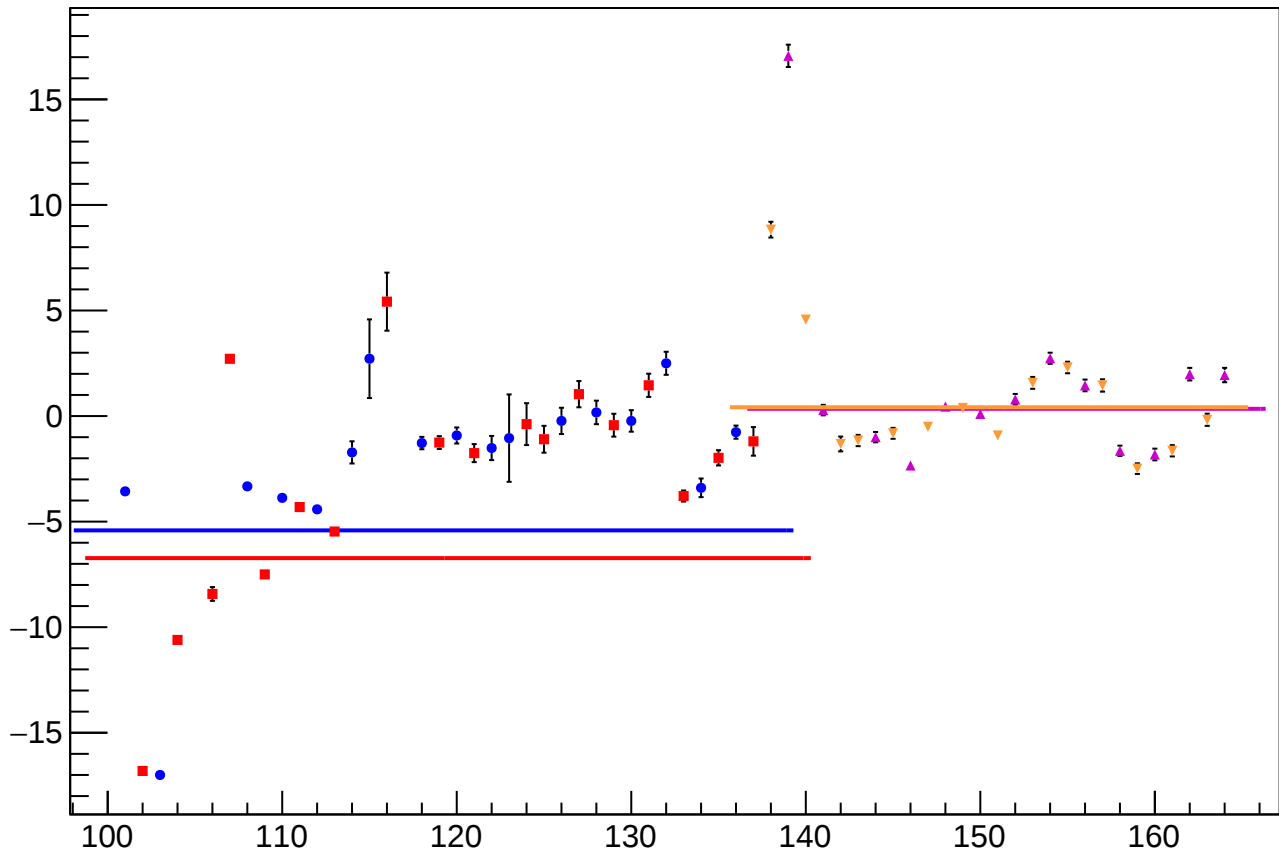
# reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.642+/-0.099  $\chi^2/\text{NDF}$ : 1518.0/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.210+/-0.099  $\chi^2/\text{NDF}$ : 1401.3/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -3.427+/-0.070  $\chi^2/\text{NDF}$ : 2928.9/26  
 - 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:  $0.417 \pm 0.069$   $\chi^2/\text{NDF}$ : 1228.8/13

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}$ : 11217.0/17

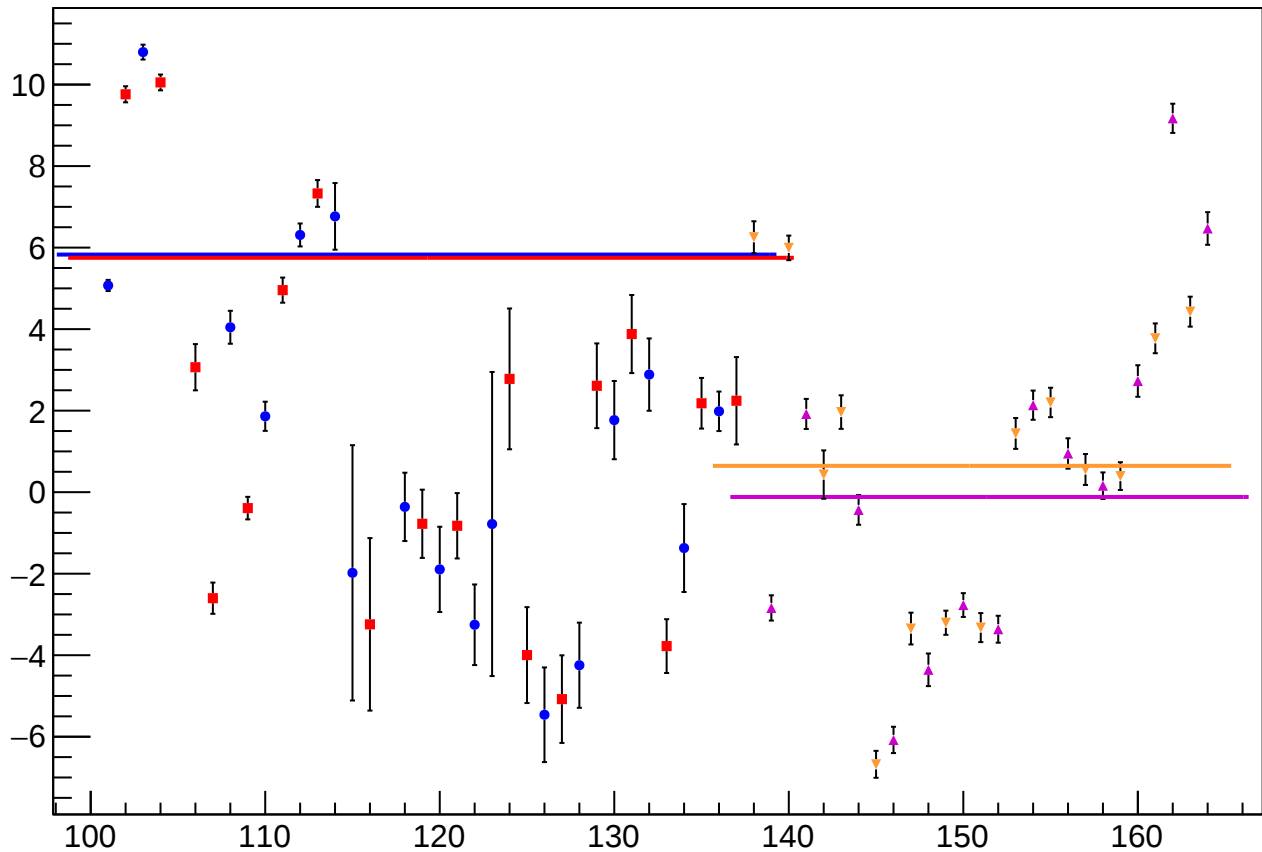
Left In:  $0.344 \pm 0.072$   $\chi^2/\text{NDF}$ : 1470.4/12

+ sign  $-3.160 \pm 0.043$   $\chi^2/\text{NDF}$ : 14871.0/30

All:  $-3.468 \pm 0.031$   $\chi^2/\text{NDF}$ : 33416.3/61

- sign  $-3.821 \pm 0.046$   $\chi^2/\text{NDF}$ : 18434.5/30

# 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:  $0.646 \pm 0.097$   $\chi^2/\text{NDF}$ : 1620.7/13

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}$ : 2511.0/17

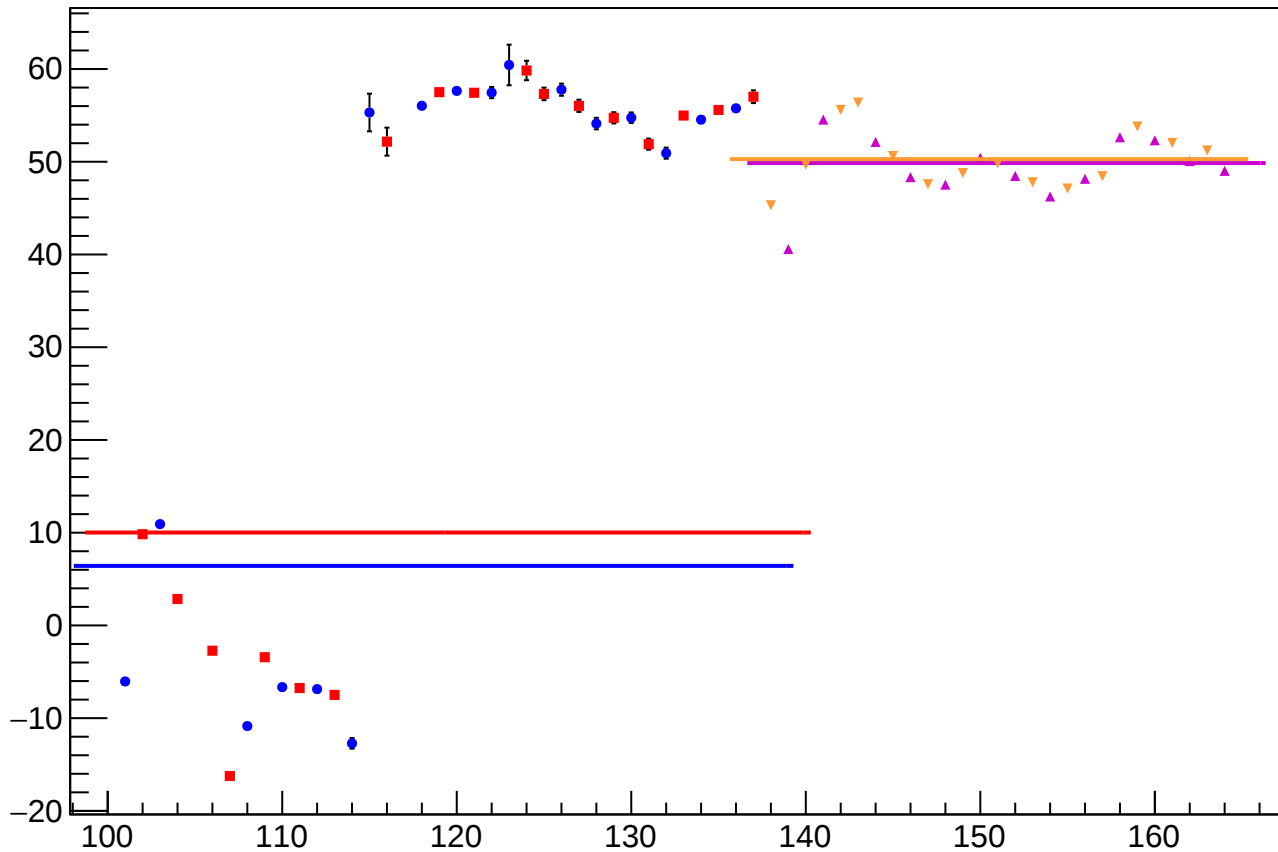
Left In:  $-0.118 \pm 0.097$   $\chi^2/\text{NDF}$ : 1785.7/12

+ sign  $3.441 \pm 0.066$   $\chi^2/\text{NDF}$ : 4609.8/30

All:  $3.146 \pm 0.047$   $\chi^2/\text{NDF}$ : 10800.0/61

- sign  $2.828 \pm 0.068$   $\chi^2/\text{NDF}$ : 6148.3/30

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:  $50.284 \pm 0.081$   $\chi^2/\text{NDF}$ : 1216.0/13

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}$ : 122082.4/17

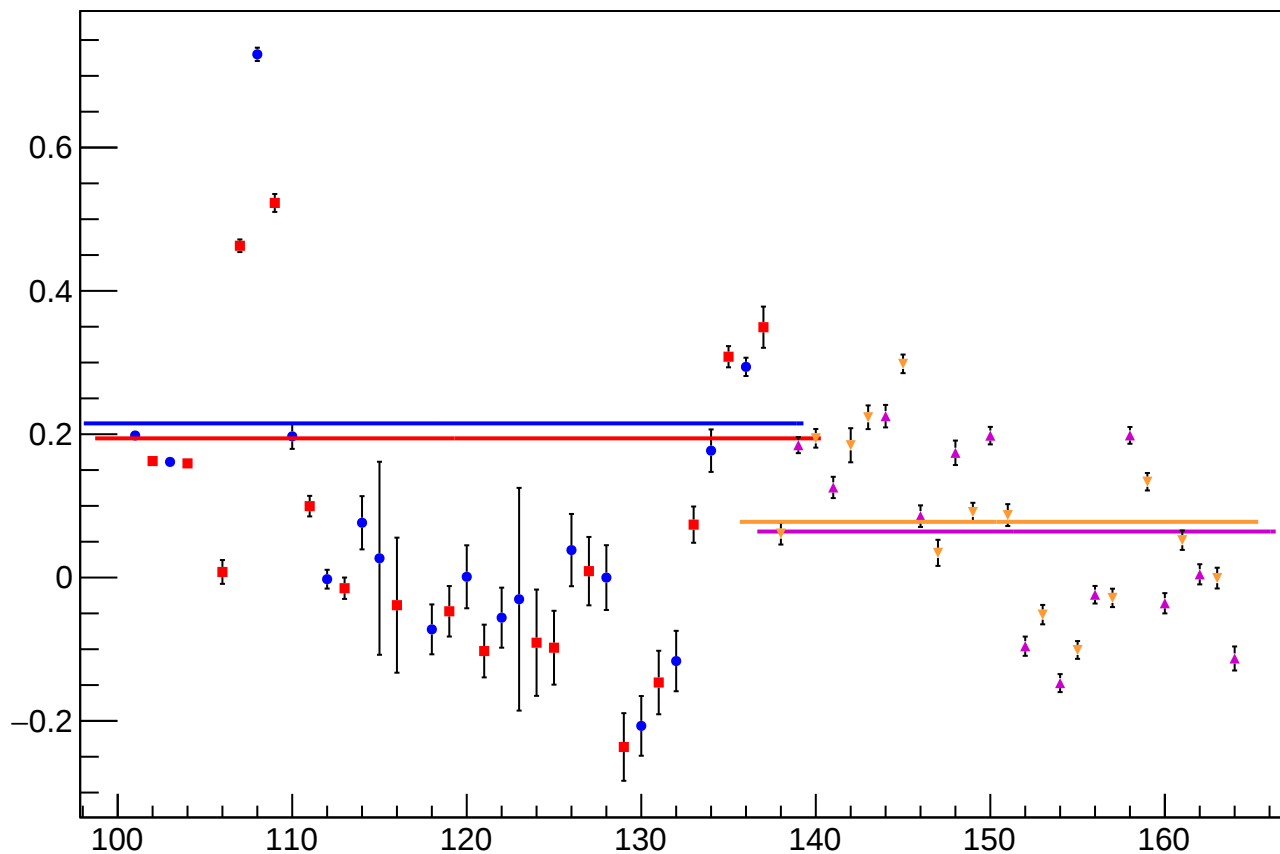
Left In:  $49.858 \pm 0.083$   $\chi^2/\text{NDF}$ : 1120.5/12

+ sign  $23.546 \pm 0.051$   $\chi^2/\text{NDF}$ : 303589.7/30

All:  $25.068 \pm 0.037$   $\chi^2/\text{NDF}$ : 562347.3/61

- sign  $26.794 \pm 0.054$   $\chi^2/\text{NDF}$ : 256821.5/30

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.215 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 3927.2/16

Left Out: 0.078 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 896.6/13

Right Out: 0.194 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 2520.1/17

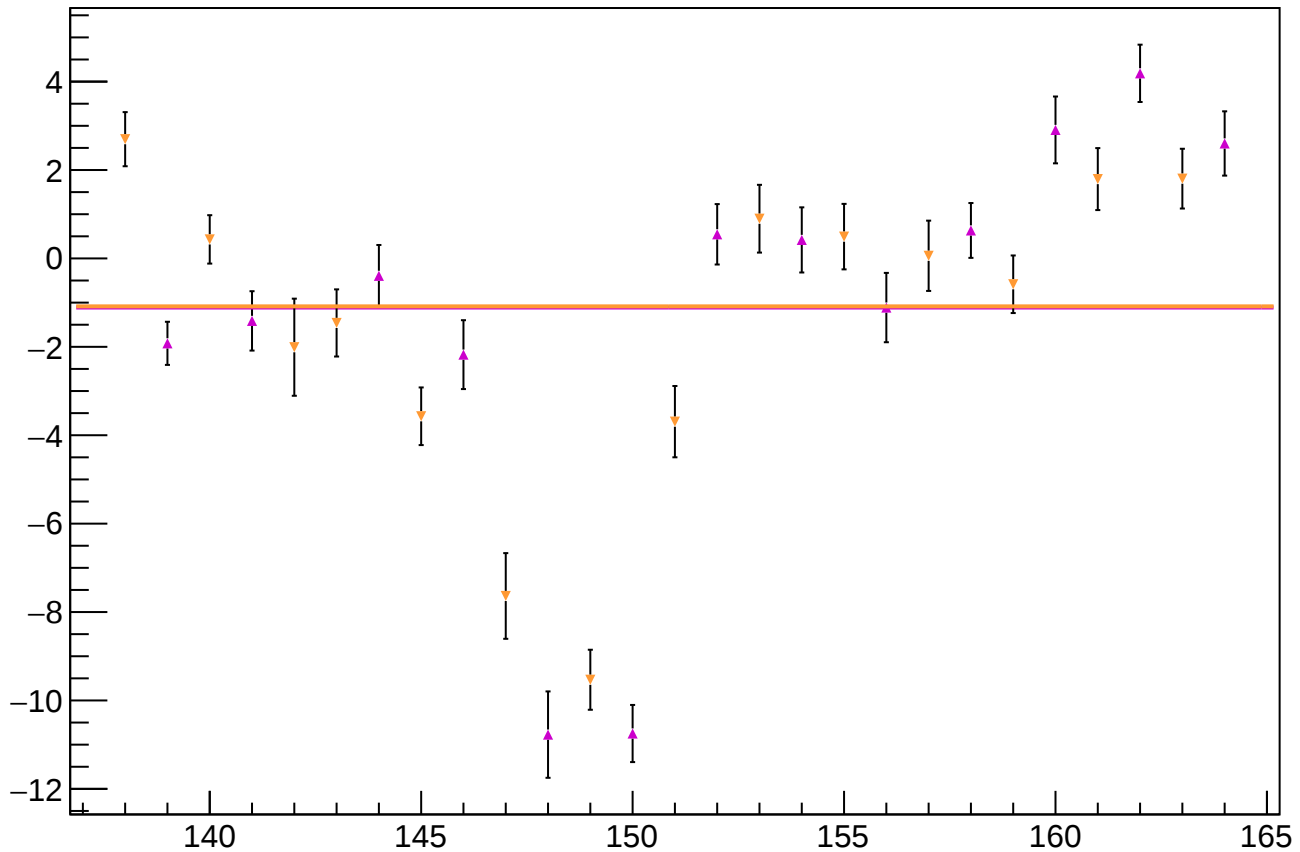
Left In: 0.064 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 1192.2/12

+ sign 0.167 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 5682.1/30

All: 0.158 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 10206.7/61

- sign 0.149 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 4491.1/30

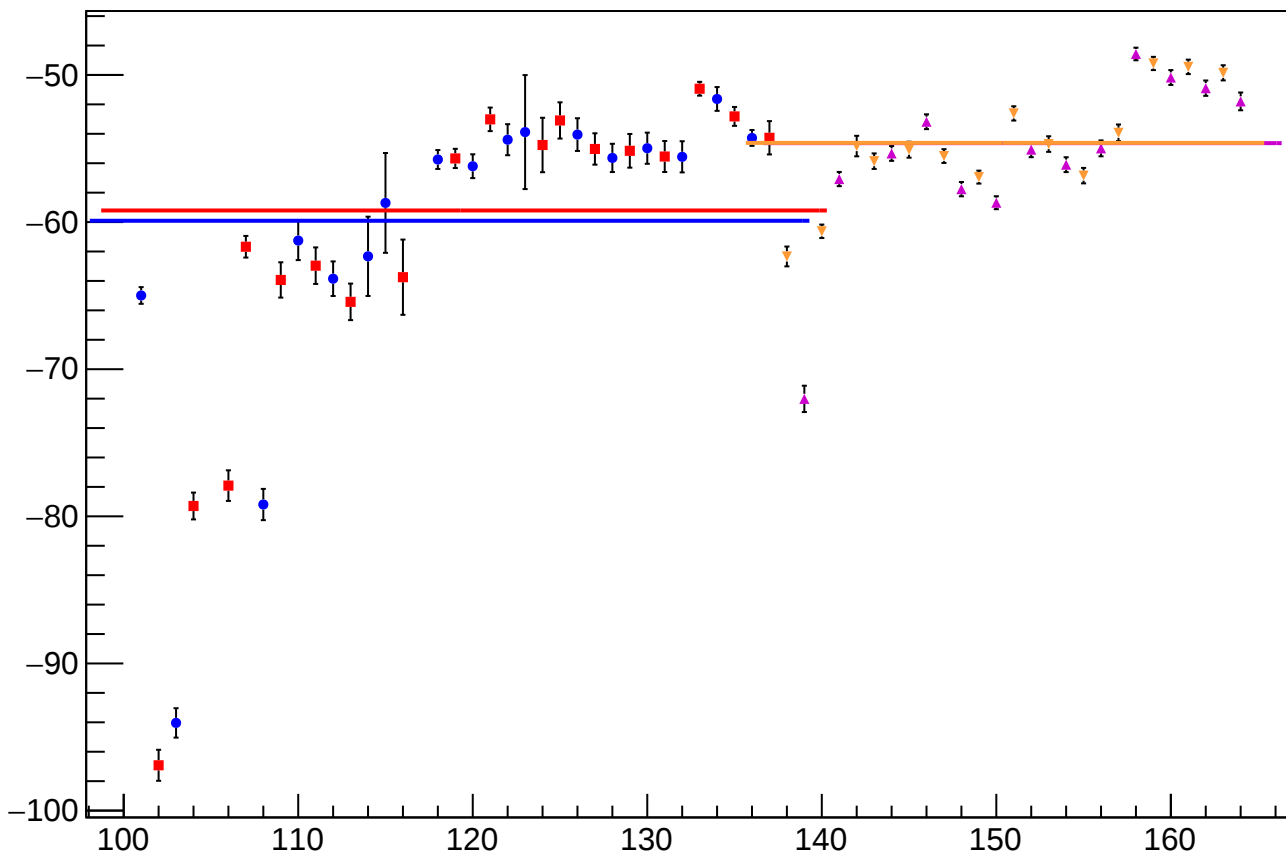
# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.085+/-0.191  $\chi^2/\text{NDF}$ : 321.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.111+/-0.190  $\chi^2/\text{NDF}$ : 465.0/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -1.098+/-0.135  $\chi^2/\text{NDF}$ : 786.3/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $-54.618 \pm 0.137$   $\chi^2/\text{NDF}$ : 718.4/13

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

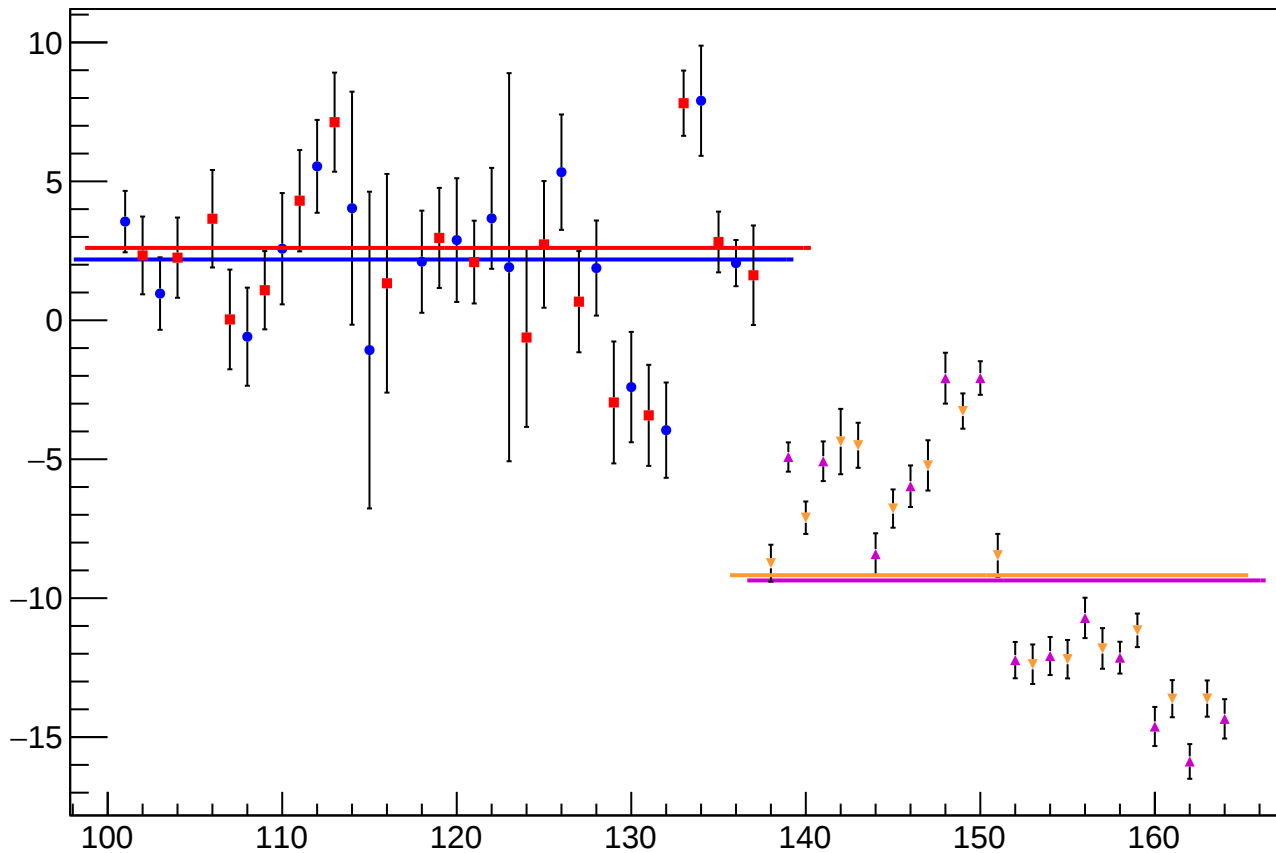
Left In:  $-54.635 \pm 0.142$   $\chi^2/\text{NDF}$ : 899.7/12

+ sign  $-56.069 \pm 0.117$   $\chi^2/\text{NDF}$ : 3107.4/30

All:  $-56.058 \pm 0.083$   $\chi^2/\text{NDF}$ : 7071.2/61

- sign  $-56.047 \pm 0.118$   $\chi^2/\text{NDF}$ : 3963.8/30

# 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:  $-9.174 \pm 0.188$   $\chi^2/\text{NDF}$ : 335.3/13

Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}$ : 50.8/17

Left In:  $-9.362 \pm 0.186$   $\chi^2/\text{NDF}$ : 613.7/12

+ sign  $-7.151 \pm 0.171$   $\chi^2/\text{NDF}$ : 1022.9/30

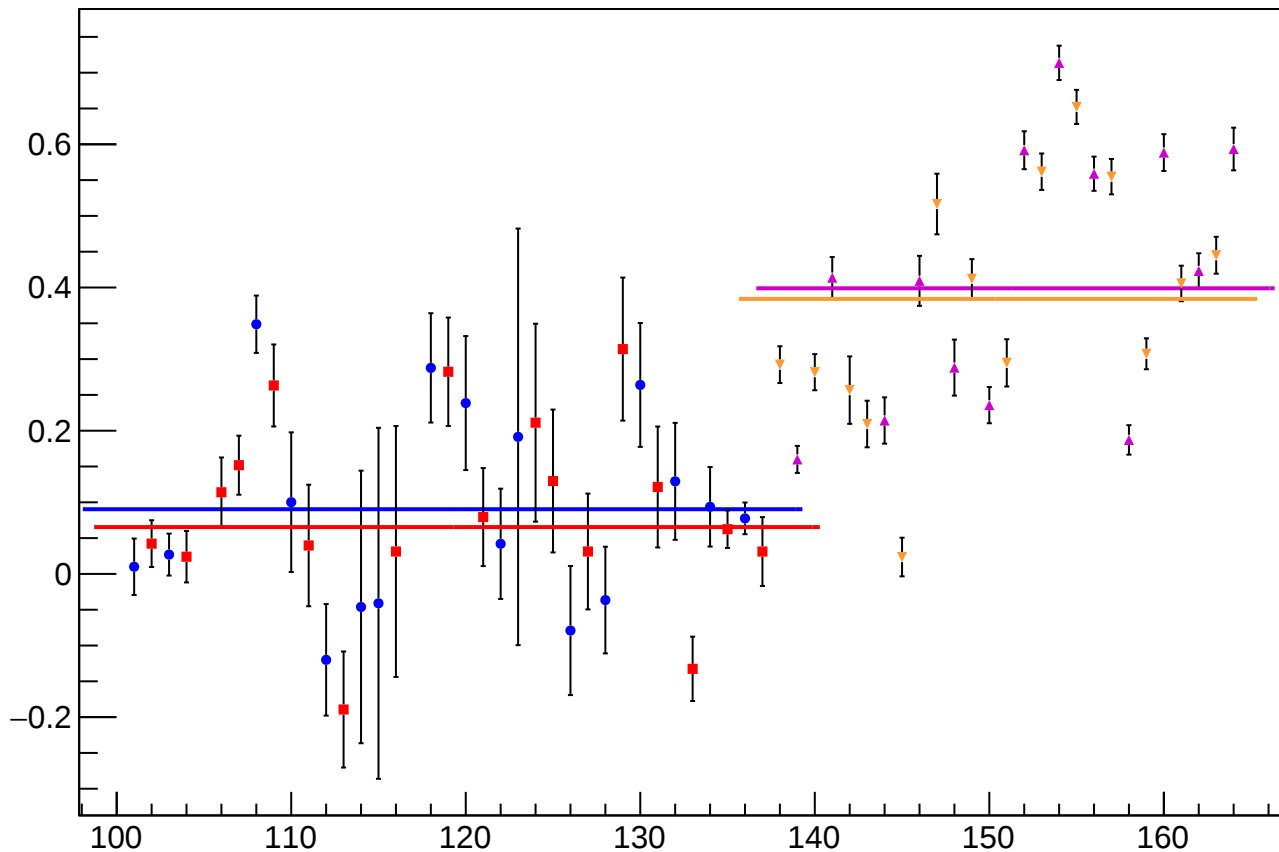
All:  $-7.157 \pm 0.120$   $\chi^2/\text{NDF}$ : 2452.4/61

- sign  $-7.162 \pm 0.168$   $\chi^2/\text{NDF}$ : 1429.5/30

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.090 \pm 0.013$   $\chi^2/\text{NDF}$ : 79.4/16

Left Out:  $0.384 \pm 0.007$   $\chi^2/\text{NDF}$ : 504.2/13

Right Out:  $0.065 \pm 0.012$   $\chi^2/\text{NDF}$ : 65.7/17

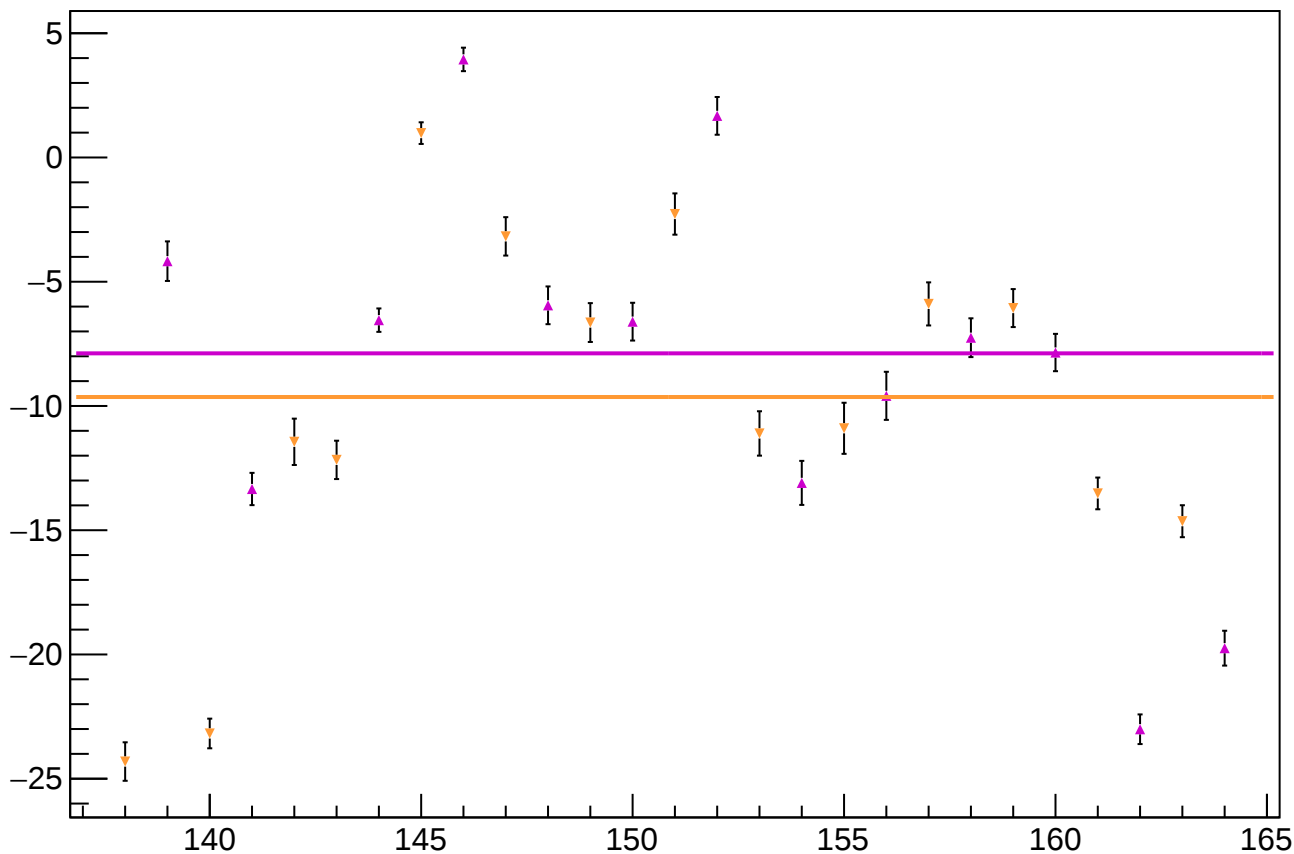
Left In:  $0.399 \pm 0.007$   $\chi^2/\text{NDF}$ : 717.2/12

+ sign  $0.312 \pm 0.006$   $\chi^2/\text{NDF}$ : 984.9/30

All:  $0.313 \pm 0.004$   $\chi^2/\text{NDF}$ : 2321.3/61

- sign  $0.314 \pm 0.006$   $\chi^2/\text{NDF}$ : 1336.3/30

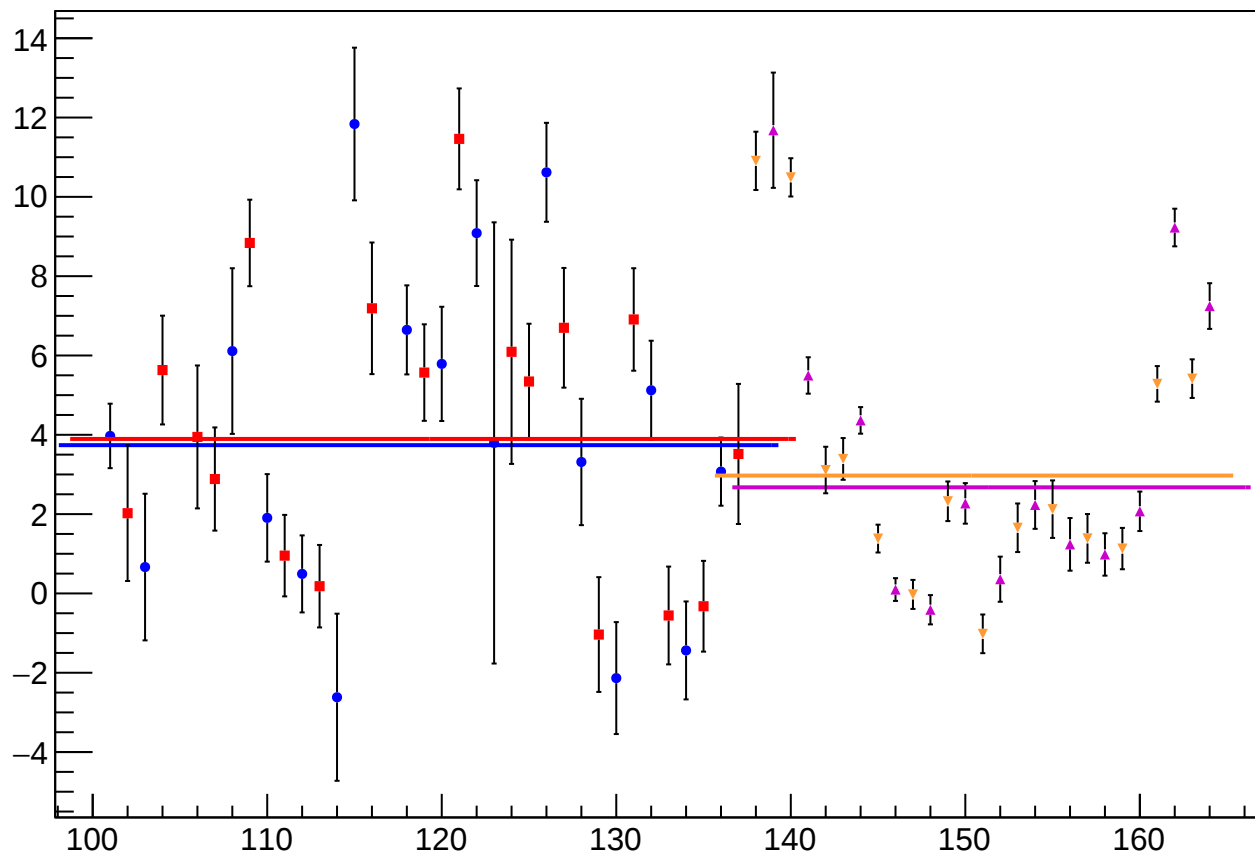
# reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.640+/-0.191  $\chi^2/\text{NDF}$ :1786.6/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -7.882+/-0.187  $\chi^2/\text{NDF}$ :1862.1/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -8.741+/-0.133  $\chi^2/\text{NDF}$ : 3692.0/26  
 - 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: 2.972 $\pm$ 0.133  $\chi^2$ /NDF: 593.4/13

Right Out: 3.896 $\pm$ 0.316  $\chi^2$ /NDF: 134.9/17

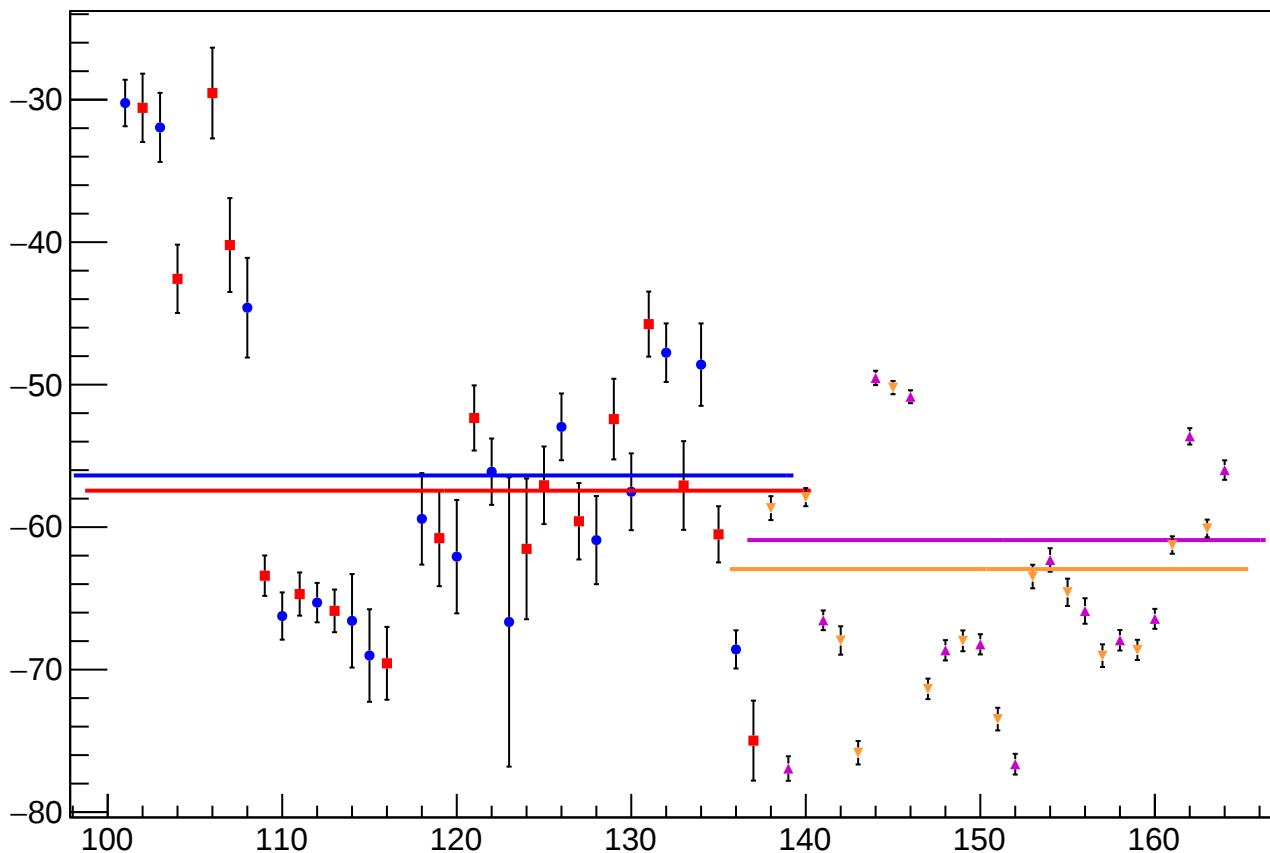
Left In: 2.676 $\pm$ 0.129  $\chi^2$ /NDF: 539.5/12

+ sign 3.092 $\pm$ 0.122  $\chi^2$ /NDF: 735.5/30

All: 2.967 $\pm$ 0.085  $\chi^2$ /NDF: 1424.6/61

- sign 2.848 $\pm$ 0.119  $\chi^2$ /NDF: 687.1/30

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:  $-62.941 \pm 0.190$   $\chi^2/\text{NDF}$ : 1626.1/13

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}$ : 441.0/17

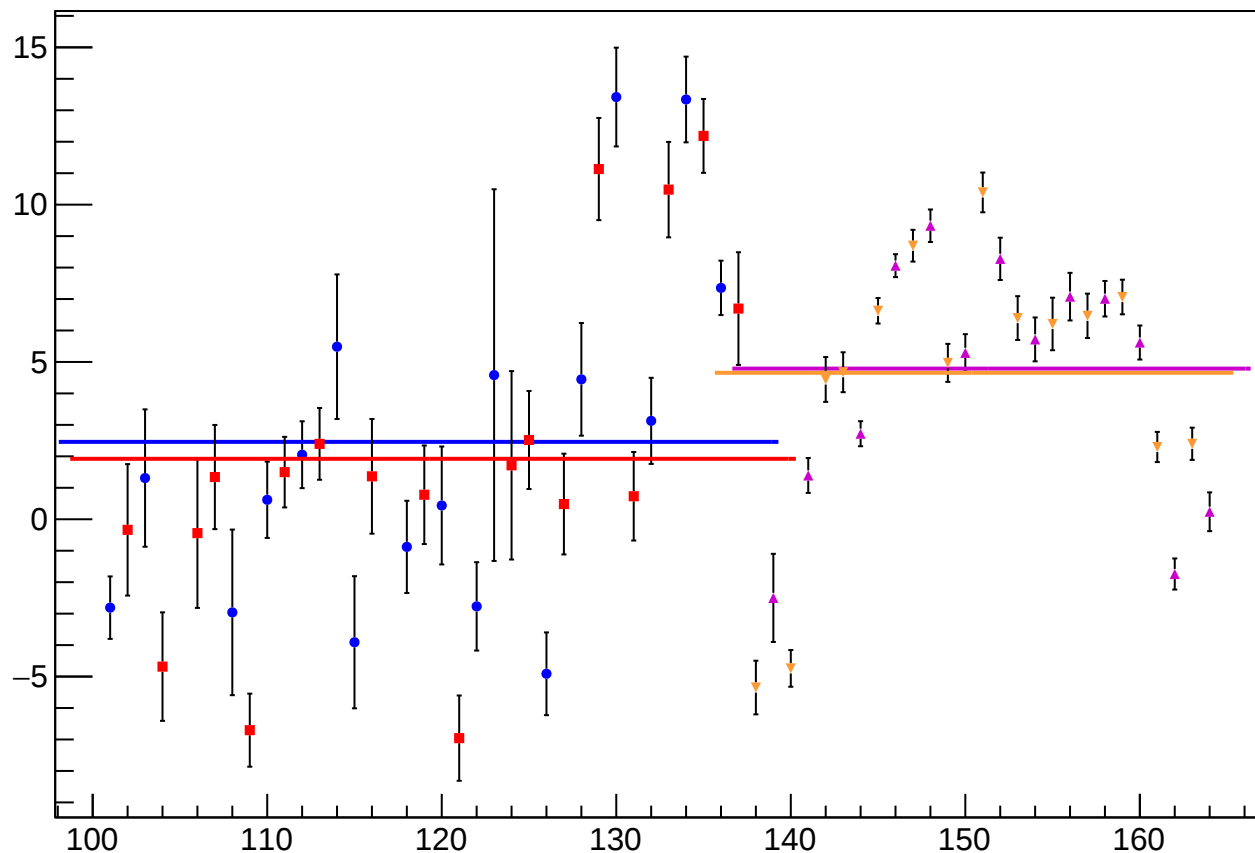
Left In:  $-60.908 \pm 0.183$   $\chi^2/\text{NDF}$ : 2509.1/12

+ sign  $-62.226 \pm 0.179$   $\chi^2/\text{NDF}$ : 2344.1/30

All:  $-61.358 \pm 0.124$   $\chi^2/\text{NDF}$ : 5377.0/61

- sign  $-60.548 \pm 0.173$   $\chi^2/\text{NDF}$ : 2987.5/30

# reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.460 $\pm$ 0.346  $\chi^2/\text{NDF}$ : 243.9/16

Left Out: 4.656 $\pm$ 0.156  $\chi^2/\text{NDF}$ : 645.8/13

Right Out: 1.922 $\pm$ 0.355  $\chi^2/\text{NDF}$ : 265.1/17

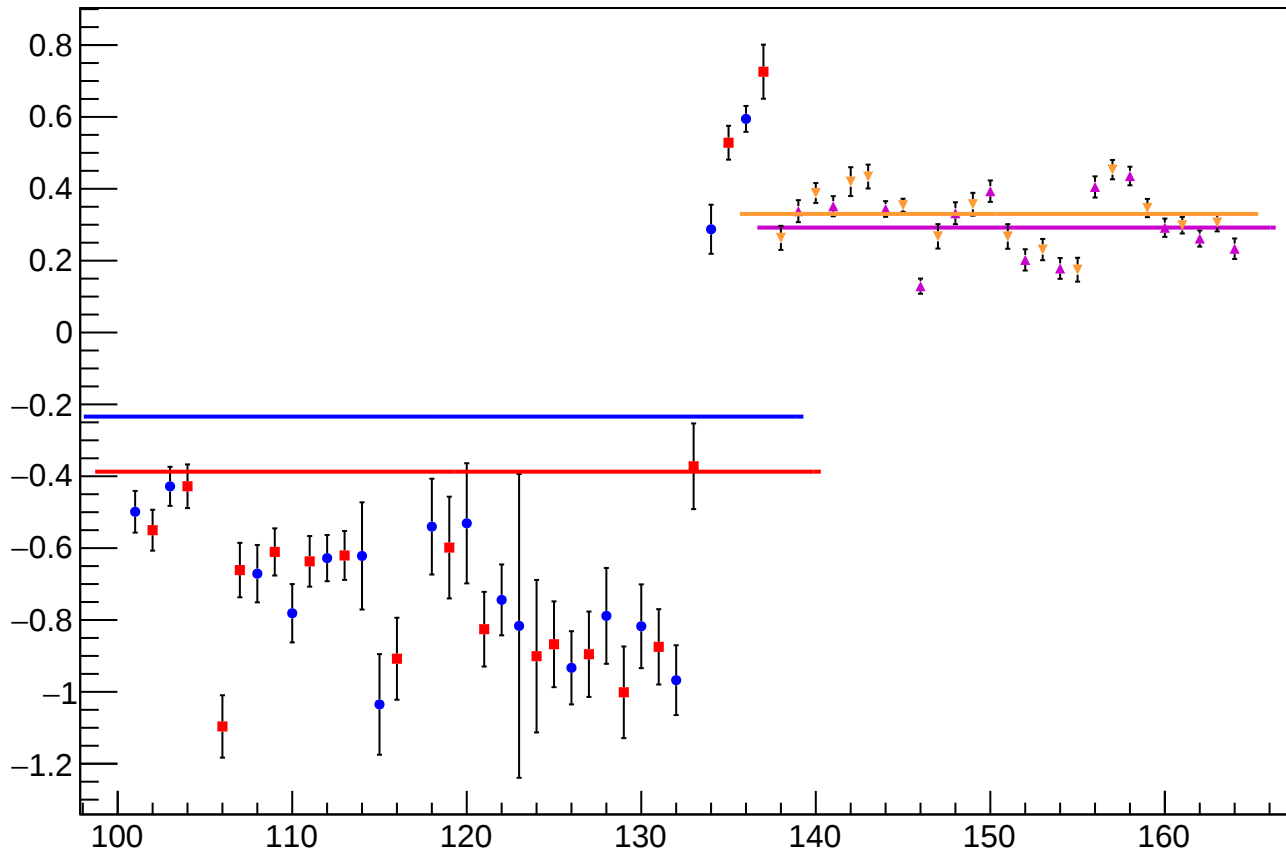
Left In: 4.789 $\pm$ 0.152  $\chi^2/\text{NDF}$ : 534.5/12

+ sign 4.284 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 923.1/30

All: 4.316 $\pm$ 0.100  $\chi^2/\text{NDF}$ : 1778.0/61

- sign 4.346 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 854.7/30

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:  $0.330 \pm 0.007$   $\chi^2/\text{NDF}$ : 89.8/13

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

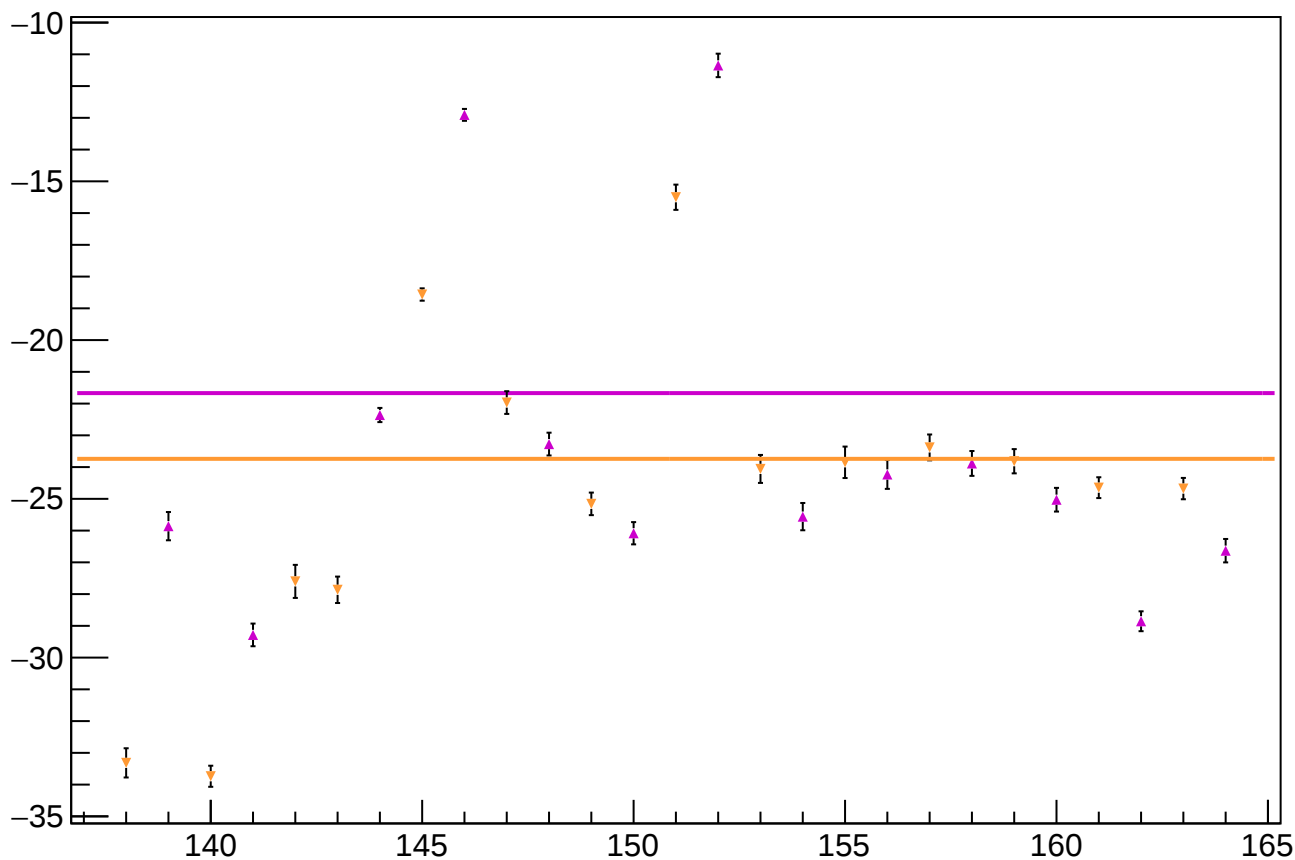
Left In:  $0.292 \pm 0.007$   $\chi^2/\text{NDF}$ : 161.2/12

+ sign  $0.254 \pm 0.007$   $\chi^2/\text{NDF}$ : 1819.3/30

All:  $0.229 \pm 0.005$   $\chi^2/\text{NDF}$ : 3965.9/61

- sign  $0.204 \pm 0.007$   $\chi^2/\text{NDF}$ : 2120.2/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: -23.740+/-0.095  $\chi^2/\text{NDF}$ : 2685.8/13

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

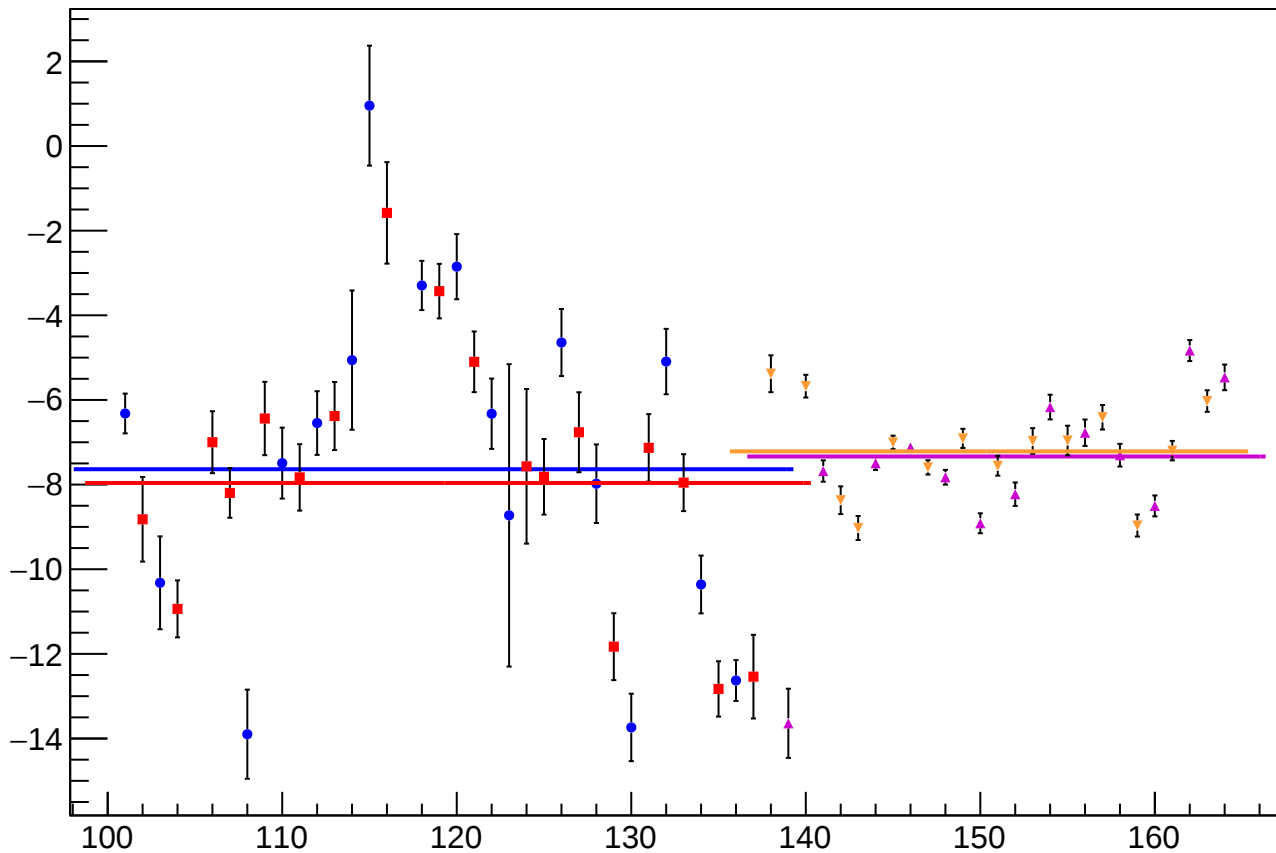
Left In: -21.670+/-0.089  $\chi^2/\text{NDF}$ : 4631.3/12

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

All: -22.643+/-0.065  $\chi^2/\text{NDF}$ : 7571.3/26

- sign 0.000+/-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: -7.215 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 190.9/13

Right Out: -7.962 $\pm$ 0.186  $\chi^2/\text{NDF}$ : 226.5/17

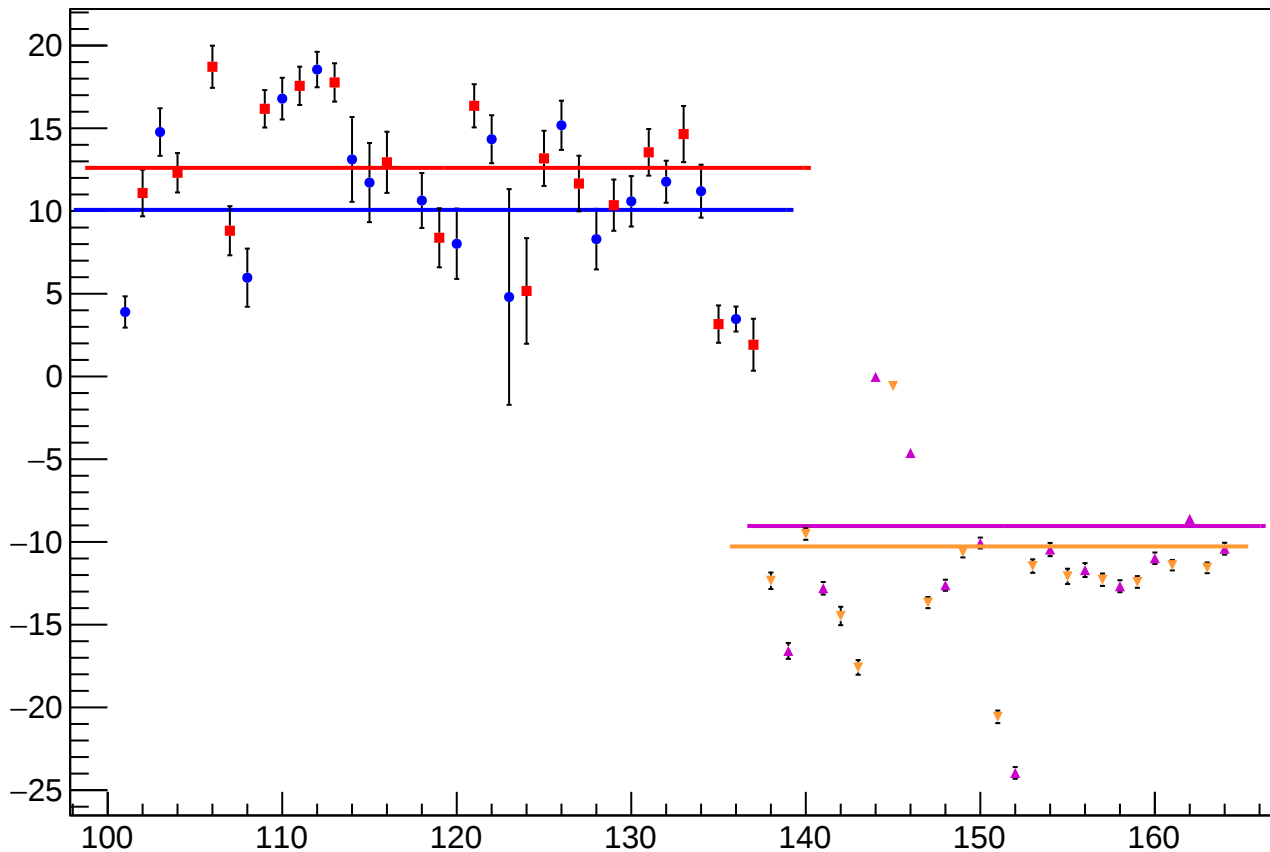
Left In: -7.336 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 309.8/12

+ sign -7.261 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 589.5/30

All: -7.334 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1138.6/61

- sign -7.396 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 546.6/30

# 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:  $-10.271 \pm 0.094$   $\chi^2/\text{NDF}$ : 3519.5/13

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}$ : 219.0/17

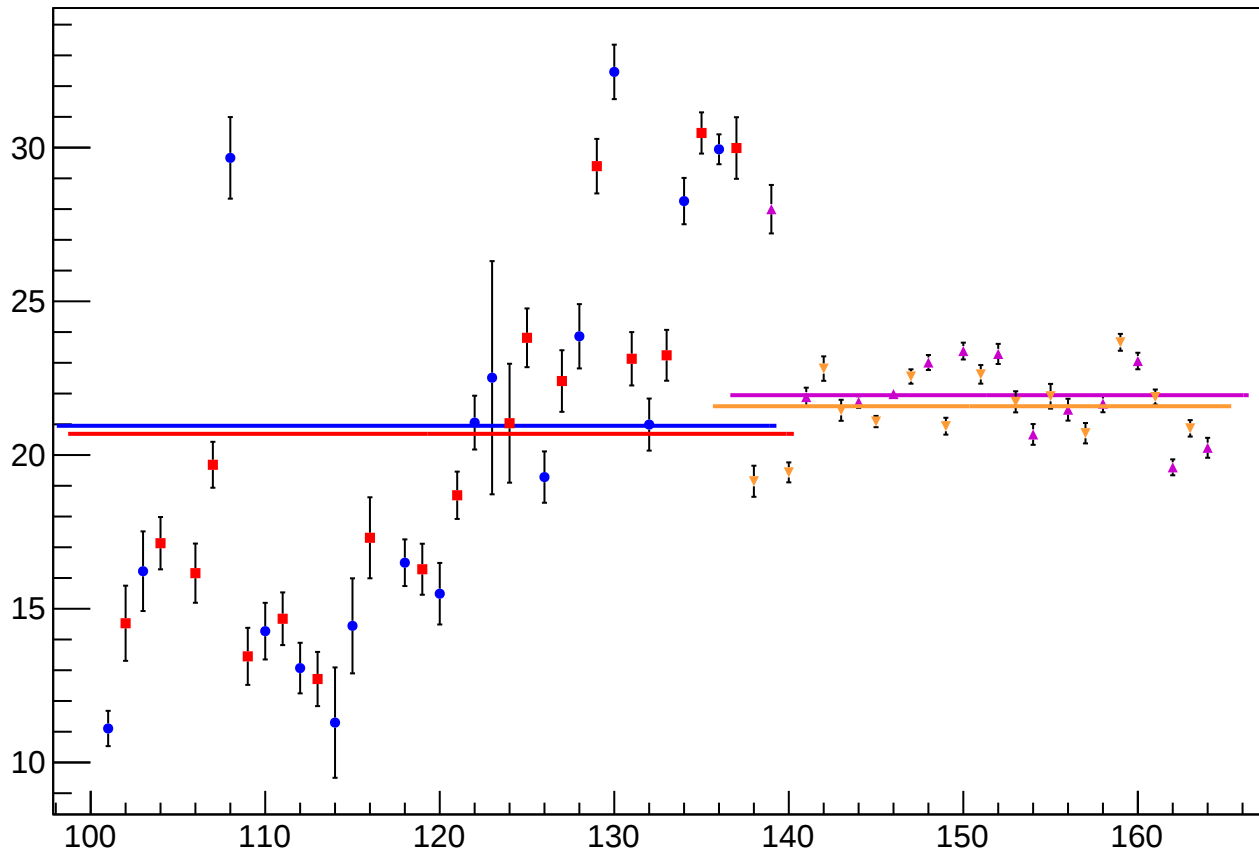
Left In:  $-9.039 \pm 0.087$   $\chi^2/\text{NDF}$ : 4463.0/12

+ sign  $-8.819 \pm 0.090$   $\chi^2/\text{NDF}$ : 7147.4/30

All:  $-8.199 \pm 0.062$   $\chi^2/\text{NDF}$ : 15872.2/61

- sign  $-7.658 \pm 0.084$   $\chi^2/\text{NDF}$ : 8636.1/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 20.951 $\pm$ 0.210  $\chi^2$ /NDF: 1222.8/16

Left Out: 21.588 $\pm$ 0.077  $\chi^2$ /NDF:192.5/13

Right Out: 20.690 $\pm$ 0.213  $\chi^2$ /NDF: 726.9/17

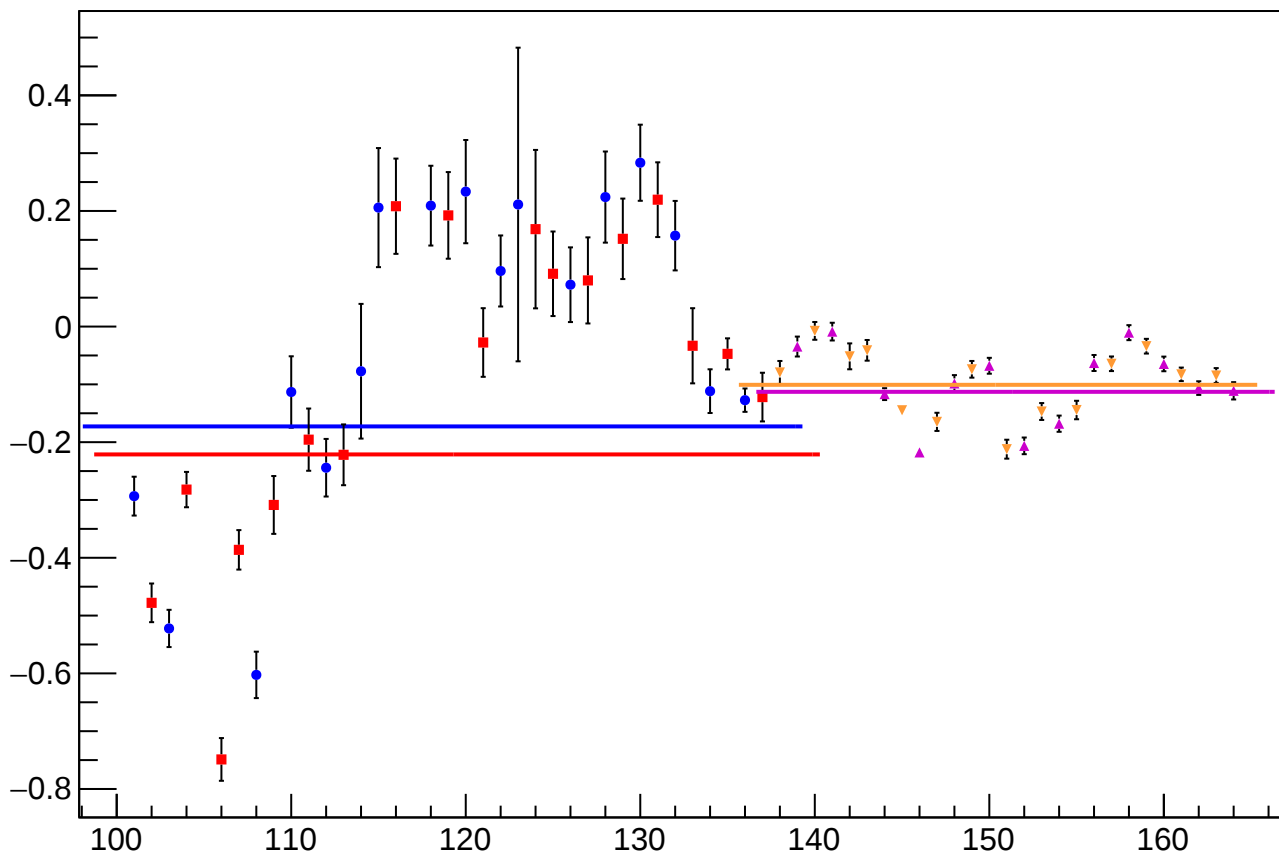
Left In: 21.947 $\pm$ 0.072  $\chi^2$ /NDF:267.4/12

+ sign 21.512 $\pm$ 0.072  $\chi^2$ /NDF: 1423.4/30

All: 21.674 $\pm$ 0.050  $\chi^2$ /NDF: 2458.6/61

- sign 21.818 $\pm$ 0.068  $\chi^2$ /NDF: 1025.7/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.173+/-0.011  $\chi^2/\text{NDF}$ : 460.3/16

Left Out: -0.101+/-0.004  $\chi^2/\text{NDF}$ : 207.0/13

Right Out: -0.221+/-0.011  $\chi^2/\text{NDF}$ : 535.1/17

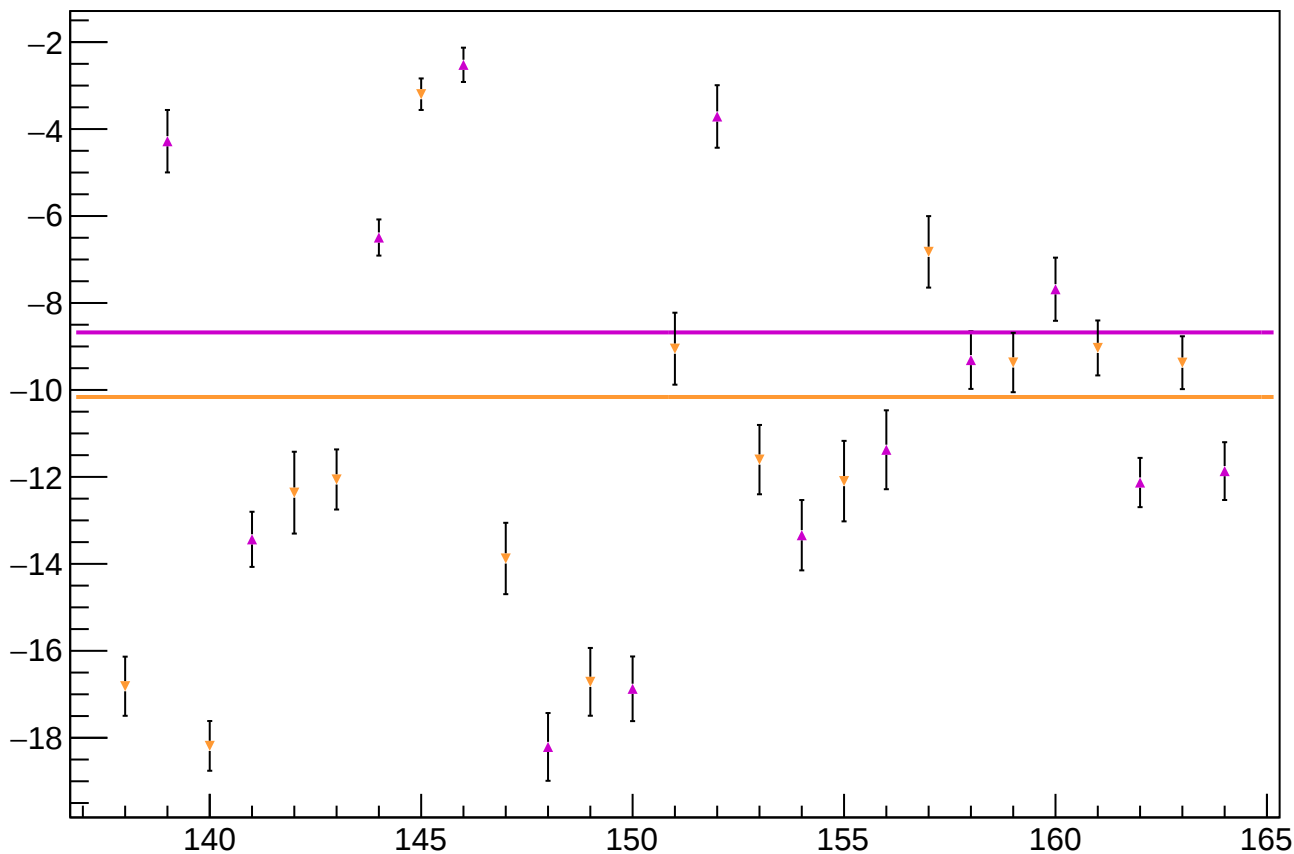
Left In: -0.113+/-0.004  $\chi^2/\text{NDF}$ : 380.3/12

+ sign -0.108+/-0.003  $\chi^2/\text{NDF}$ : 704.6/30

All: -0.116+/-0.002  $\chi^2/\text{NDF}$ : 1718.4/61

- sign -0.123+/-0.003  $\chi^2/\text{NDF}$ : 1003.8/30

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out:  $-10.162 \pm 0.176$   $\chi^2/\text{NDF}$ : 797.3/13

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

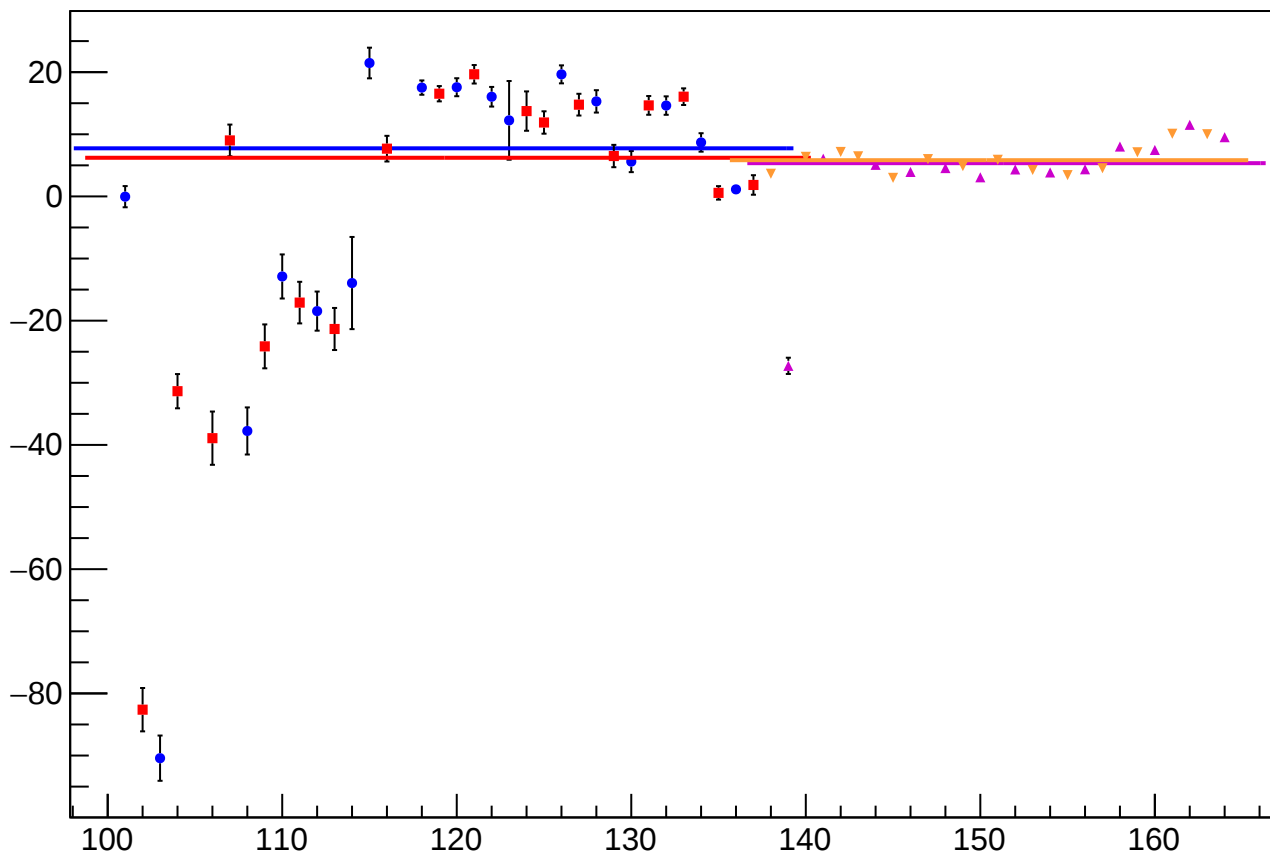
Left In:  $-8.677 \pm 0.171$   $\chi^2/\text{NDF}$ : 788.6/12

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

All:  $-9.396 \pm 0.123$   $\chi^2/\text{NDF}$ : 1622.6/26

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $5.829 \pm 0.125$   $\chi^2/\text{NDF}$ : 329.9/13

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}$ : 1445.9/17

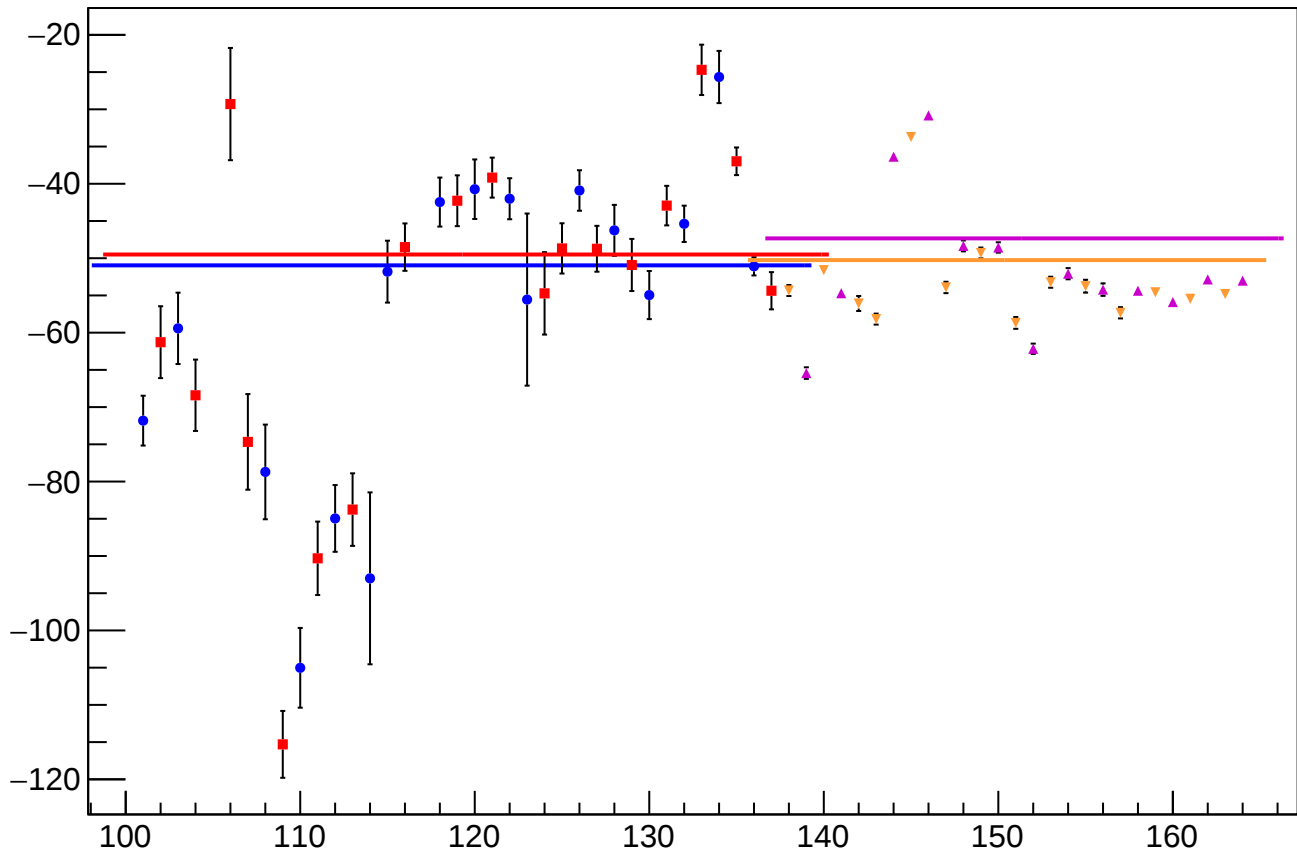
Left In:  $5.351 \pm 0.119$   $\chi^2/\text{NDF}$ : 995.8/12

+ sign  $5.996 \pm 0.119$   $\chi^2/\text{NDF}$ : 1709.3/30

All:  $5.694 \pm 0.083$   $\chi^2/\text{NDF}$ : 4167.2/61

- sign  $5.412 \pm 0.115$   $\chi^2/\text{NDF}$ : 2445.4/30

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:  $-50.254 \pm 0.176$   $\chi^2/\text{NDF}$ : 2444.3/13

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

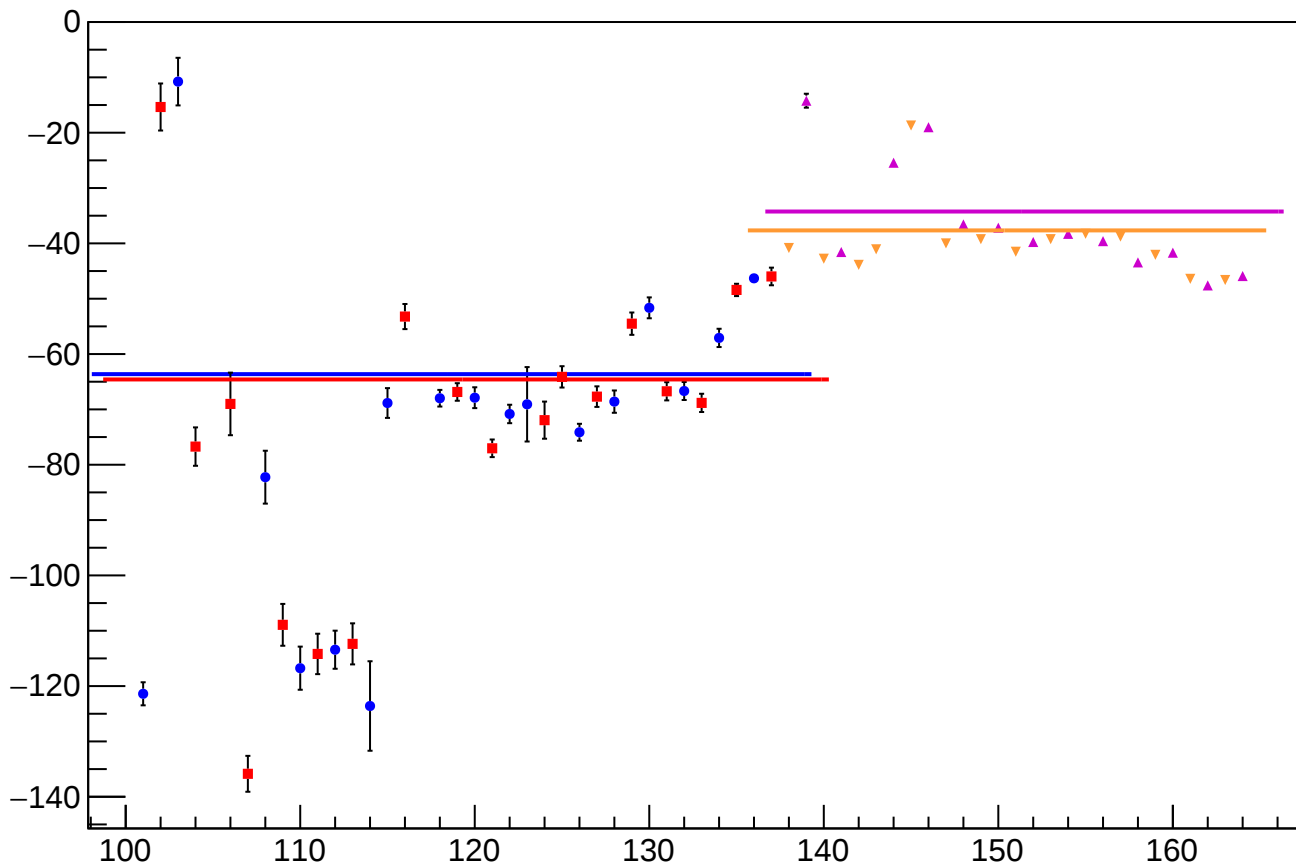
Left In:  $-47.336 \pm 0.167$   $\chi^2/\text{NDF}$ : 4205.5/12

+ sign  $-50.292 \pm 0.171$   $\chi^2/\text{NDF}$ : 2777.1/30

All:  $-48.797 \pm 0.118$   $\chi^2/\text{NDF}$ : 7642.0/61

- sign  $-47.428 \pm 0.164$   $\chi^2/\text{NDF}$ : 4719.0/30

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-63.631 \pm 0.446$   $\chi^2/\text{NDF}$ : 2011.2/16

Left Out:  $-37.658 \pm 0.146$   $\chi^2/\text{NDF}$ : 4273.3/13

Right Out:  $-64.590 \pm 0.482$   $\chi^2/\text{NDF}$ : 1594.3/17

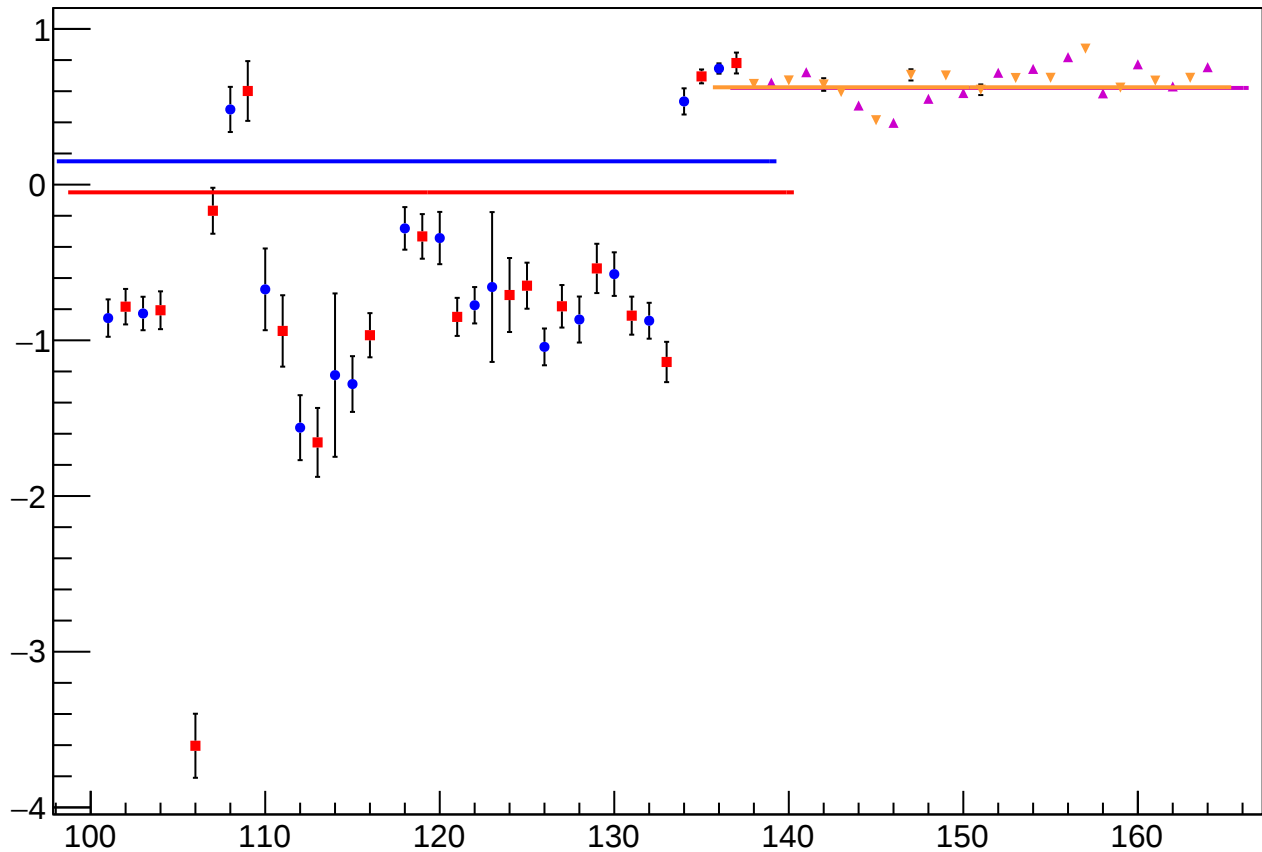
Left In:  $-34.245 \pm 0.140$   $\chi^2/\text{NDF}$ : 5396.6/12

+ sign  $-40.160 \pm 0.138$   $\chi^2/\text{NDF}$ : 9351.3/30

All:  $-38.328 \pm 0.096$   $\chi^2/\text{NDF}$ : 20336.0/61

- sign  $-36.601 \pm 0.134$   $\chi^2/\text{NDF}$ : 10644.1/30

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:  $0.625 \pm 0.007$   $\chi^2/\text{NDF}$ : 323.6/13

Right Out:  $-0.050 \pm 0.026$   $\chi^2/\text{NDF}$ : 1154.0/17

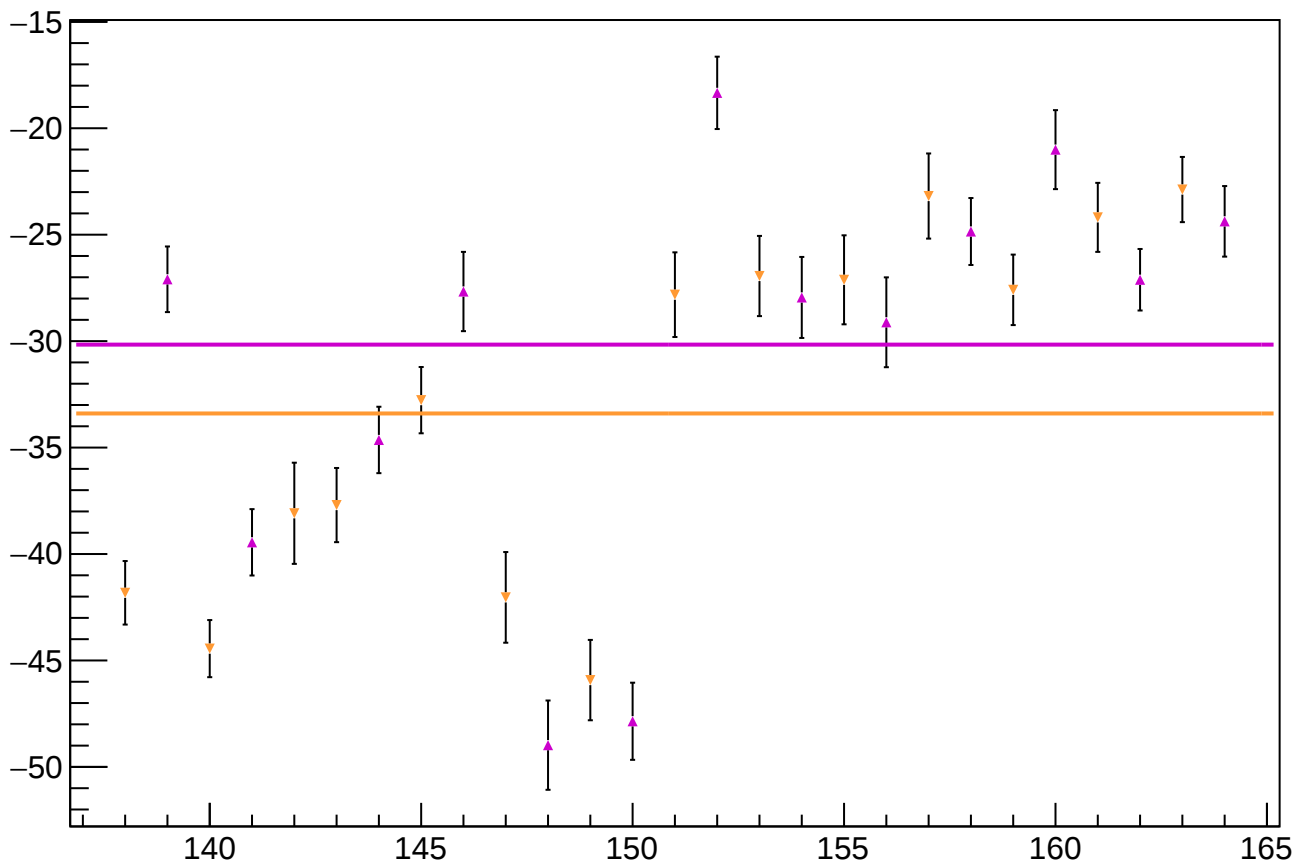
Left In:  $0.621 \pm 0.007$   $\chi^2/\text{NDF}$ : 362.8/12

+ sign  $0.589 \pm 0.007$   $\chi^2/\text{NDF}$ : 1675.6/30

All:  $0.584 \pm 0.005$   $\chi^2/\text{NDF}$ : 3806.5/61

- sign  $0.579 \pm 0.007$   $\chi^2/\text{NDF}$ : 2129.9/30

reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: -33.398 $\pm$ 0.466  $\chi^2$ /NDF: 316.8/13

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

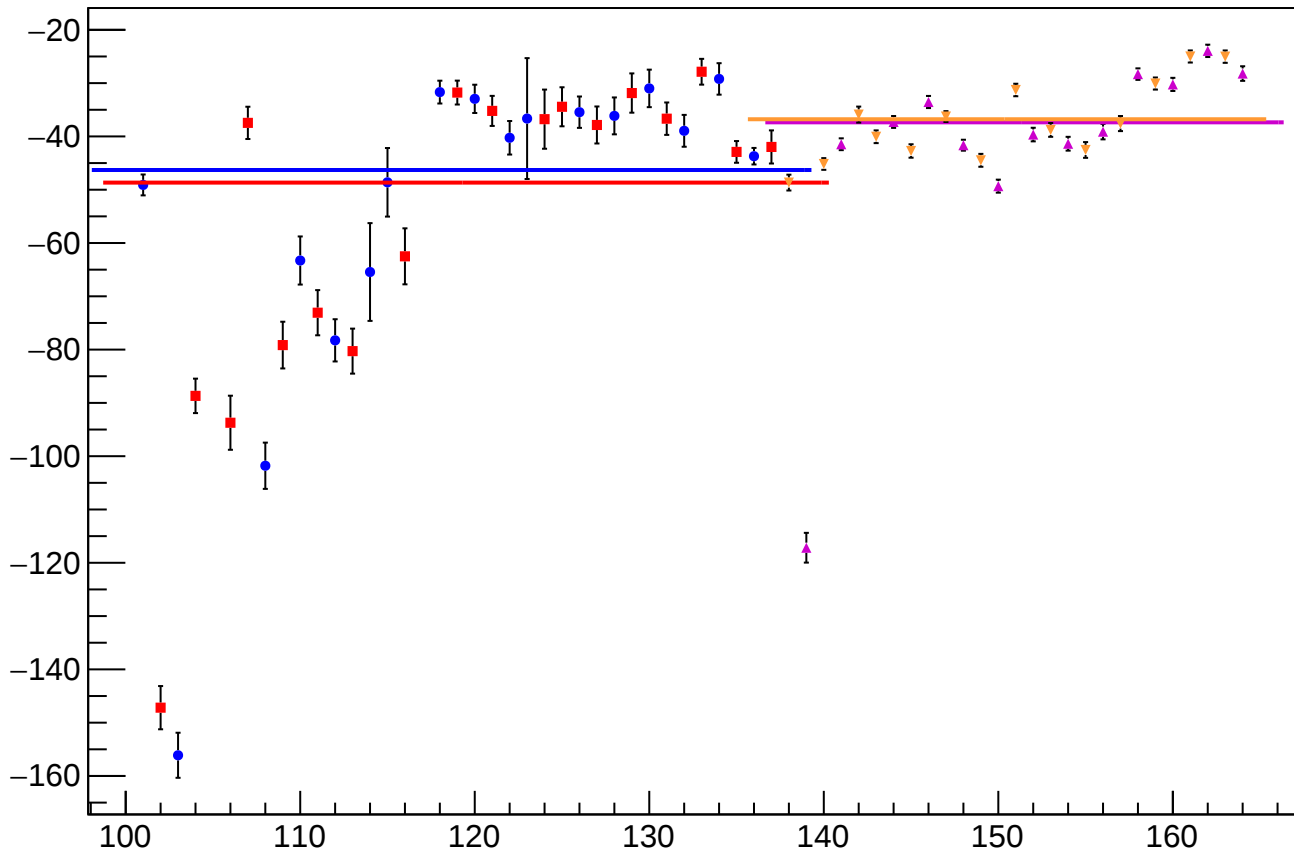
Left In: -30.164 $\pm$ 0.474  $\chi^2$ /NDF: 327.8/12

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

All: -31.810 $\pm$ 0.332  $\chi^2$ /NDF: 668.3/26

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-36.778 \pm 0.328$   $\chi^2/\text{NDF}$ : 477.3/13

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}$ : 1212.3/17

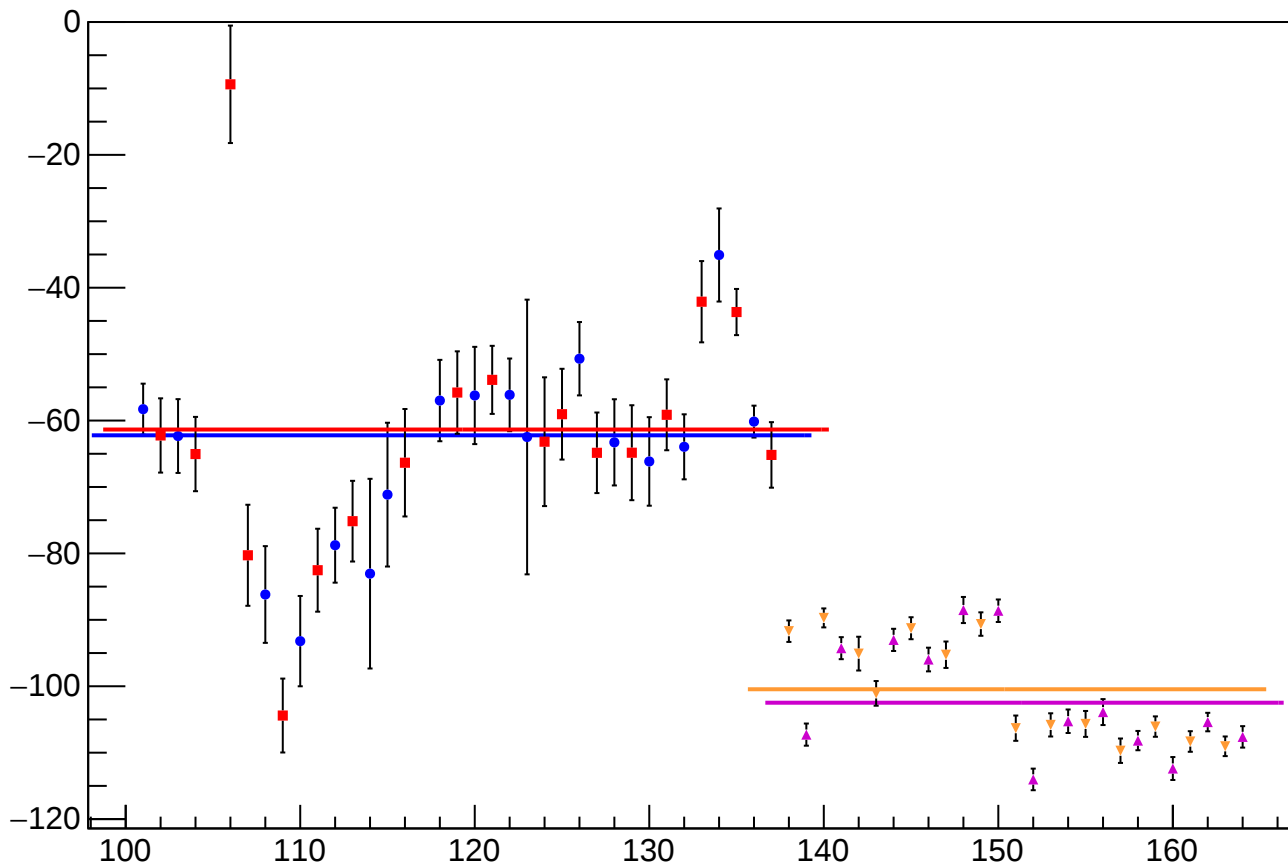
Left In:  $-37.357 \pm 0.341$   $\chi^2/\text{NDF}$ : 1251.8/12

+ sign  $-38.405 \pm 0.299$   $\chi^2/\text{NDF}$ : 1705.0/30

All:  $-38.804 \pm 0.216$   $\chi^2/\text{NDF}$ : 4355.8/61

- sign  $-39.237 \pm 0.311$   $\chi^2/\text{NDF}$ : 2647.1/30

# 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:  $-100.452 \pm 0.460$   $\chi^2/\text{NDF}$ : 283.2/13

Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}$ : 158.4/17

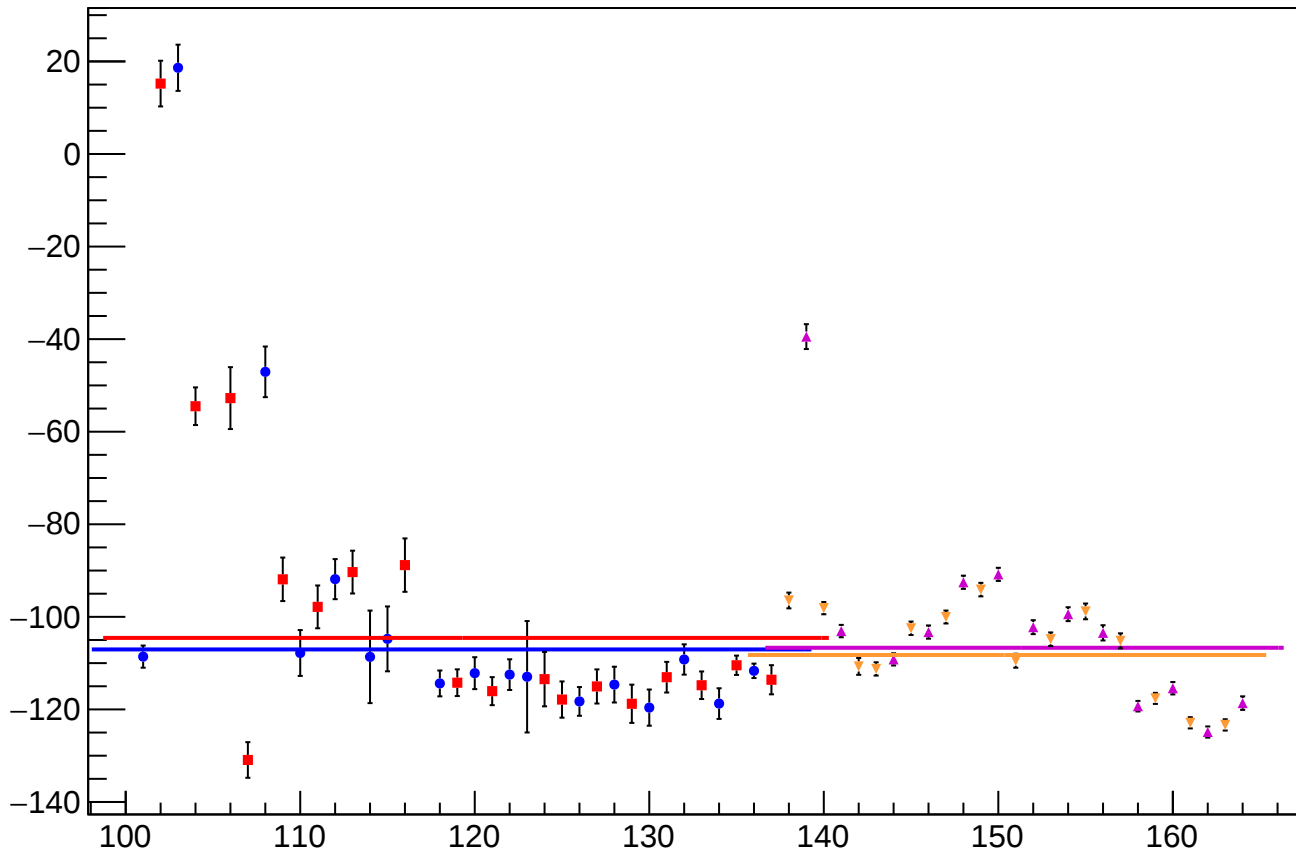
Left In:  $-102.478 \pm 0.463$   $\chi^2/\text{NDF}$ : 311.7/12

+ sign  $-96.257 \pm 0.434$   $\chi^2/\text{NDF}$ : 1106.8/30

All:  $-97.288 \pm 0.309$   $\chi^2/\text{NDF}$ : 2383.9/61

- sign  $-98.339 \pm 0.439$   $\chi^2/\text{NDF}$ : 1265.7/30

# 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:  $-108.244 \pm 0.383$   $\chi^2/\text{NDF}$ : 656.0/13

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

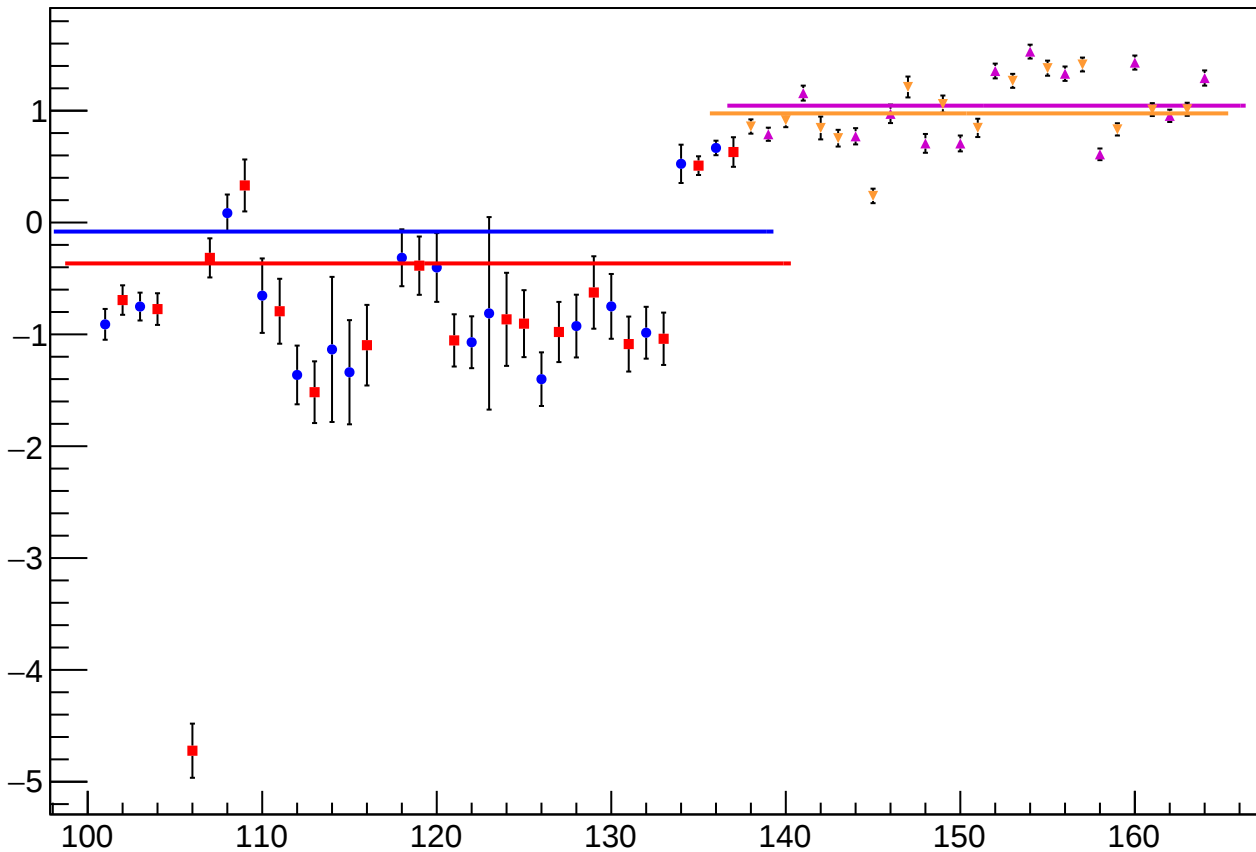
Left In:  $-106.682 \pm 0.393$   $\chi^2/\text{NDF}$ : 1360.7/12

+ sign  $-108.025 \pm 0.346$   $\chi^2/\text{NDF}$ : 1485.6/30

All:  $-107.197 \pm 0.249$   $\chi^2/\text{NDF}$ : 3830.6/61

- sign  $-106.315 \pm 0.357$   $\chi^2/\text{NDF}$ : 2333.2/30

# 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:  $0.976 \pm 0.018$   $\chi^2/\text{NDF}$ : 268.8/13

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

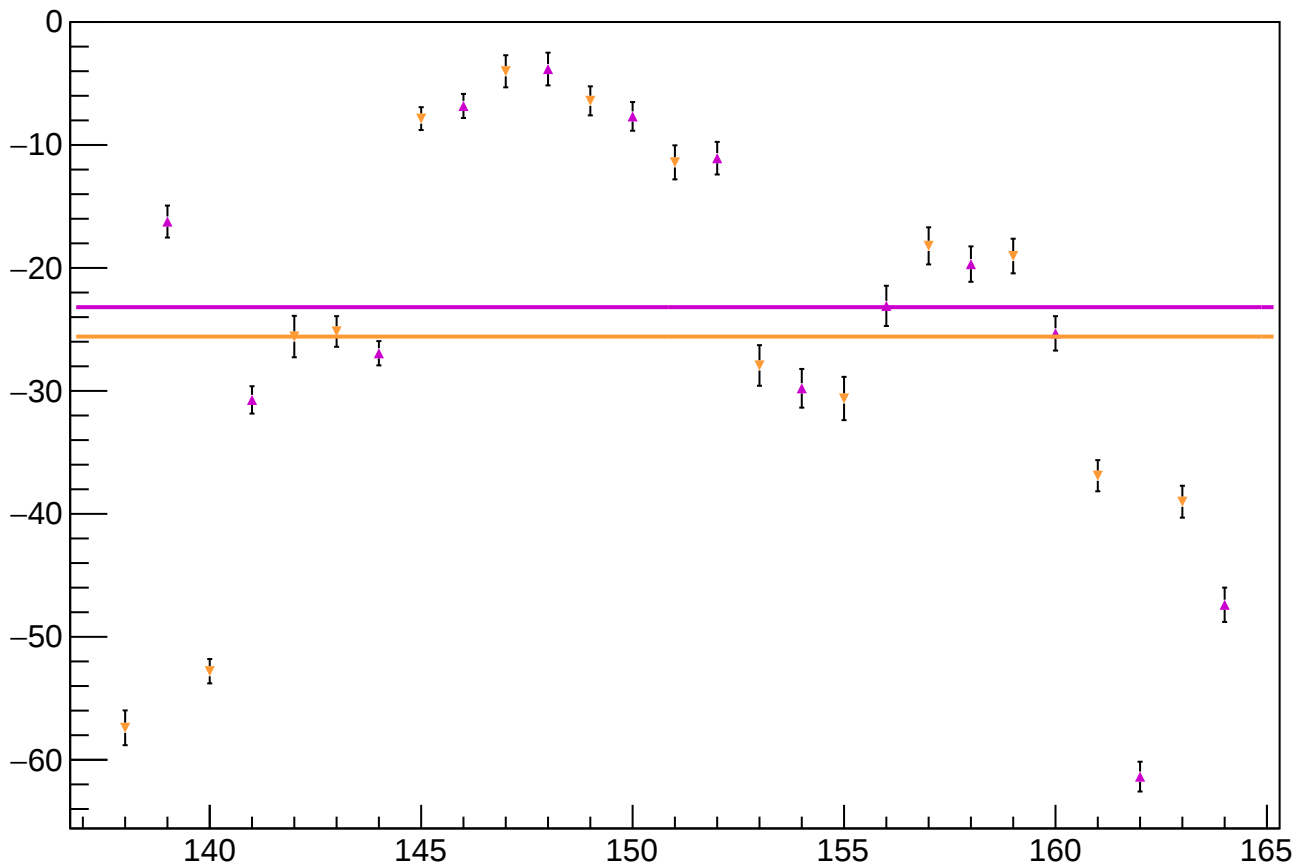
Left In:  $1.045 \pm 0.018$   $\chi^2/\text{NDF}$ : 300.5/12

+ sign  $0.814 \pm 0.017$   $\chi^2/\text{NDF}$ : 1128.7/30

All:  $0.828 \pm 0.012$   $\chi^2/\text{NDF}$ : 2883.7/61

- sign  $0.843 \pm 0.017$   $\chi^2/\text{NDF}$ : 1753.5/30

# 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: -25.583+/-0.346  $\chi^2/\text{NDF}$ : 2509.5/13

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

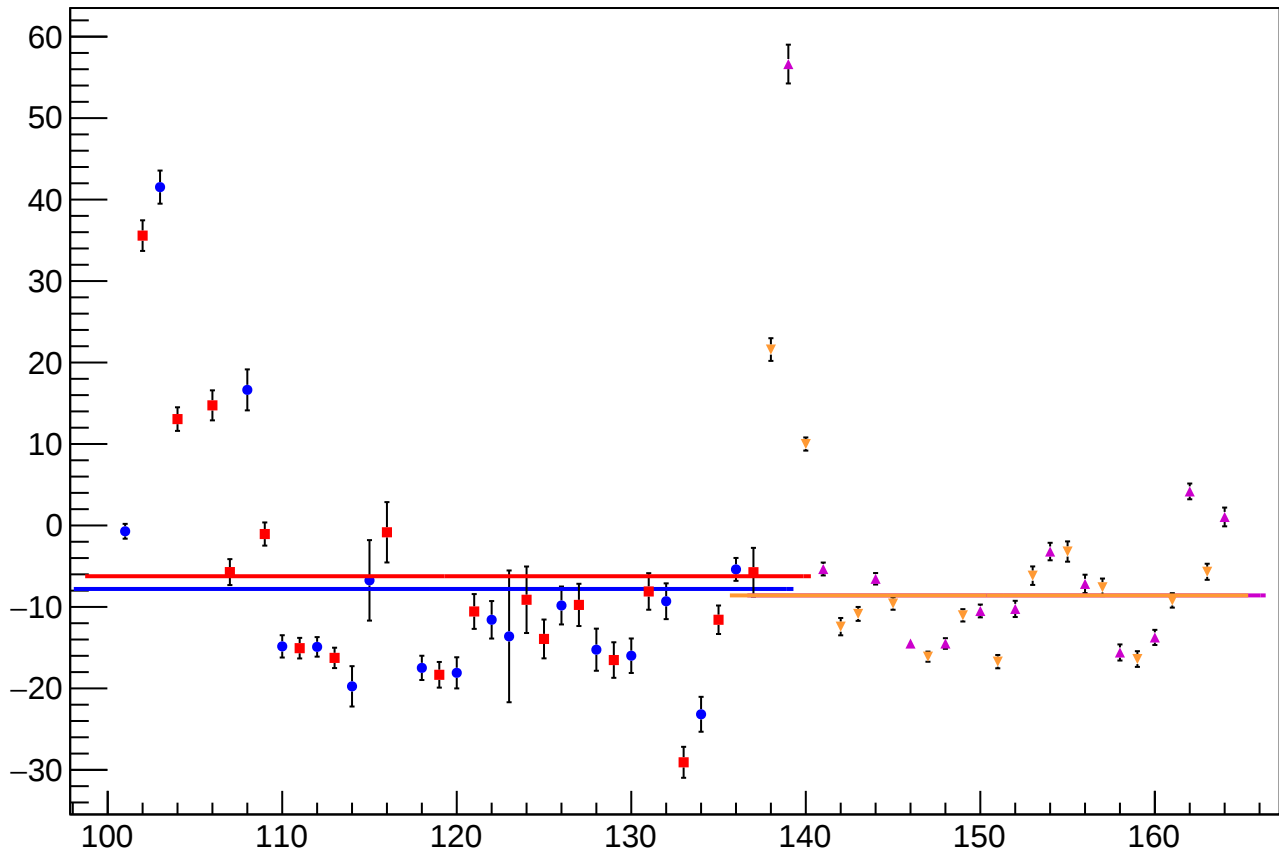
Left In: -23.189+/-0.347  $\chi^2/\text{NDF}$ : 2160.2/12

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

All: -24.390+/-0.245  $\chi^2/\text{NDF}$ : 4693.5/26

- 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:  $-8.586 \pm 0.239$   $\chi^2/\text{NDF}$ : 1373.0/13

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

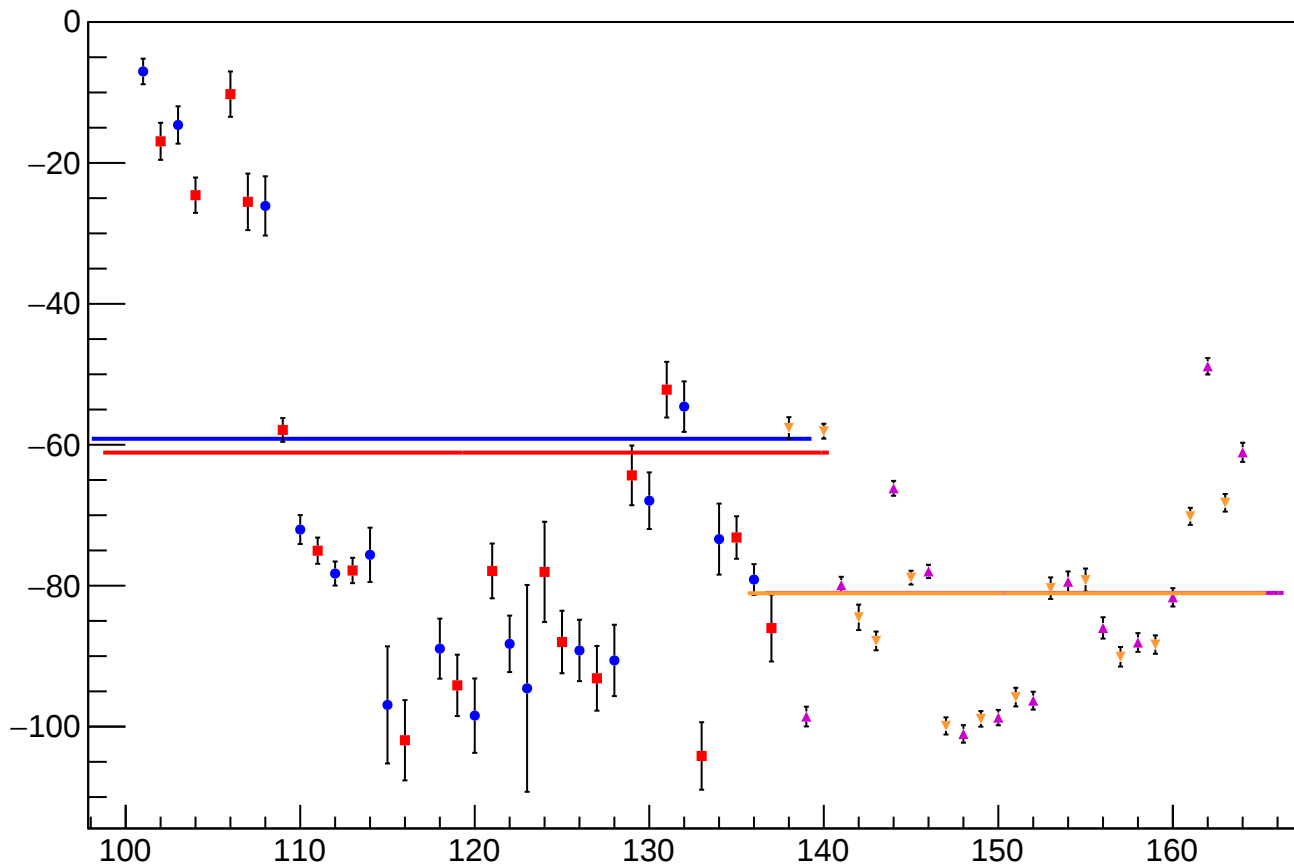
Left In:  $-8.585 \pm 0.242$   $\chi^2/\text{NDF}$ : 1311.1/12

+ sign  $-8.398 \pm 0.209$   $\chi^2/\text{NDF}$ : 2358.3/30

All:  $-8.210 \pm 0.148$   $\chi^2/\text{NDF}$ : 4876.8/61

- sign  $-8.018 \pm 0.211$   $\chi^2/\text{NDF}$ : 2516.8/30

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:  $-81.071 \pm 0.343$   $\chi^2/\text{NDF}$ : 1629.3/13

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

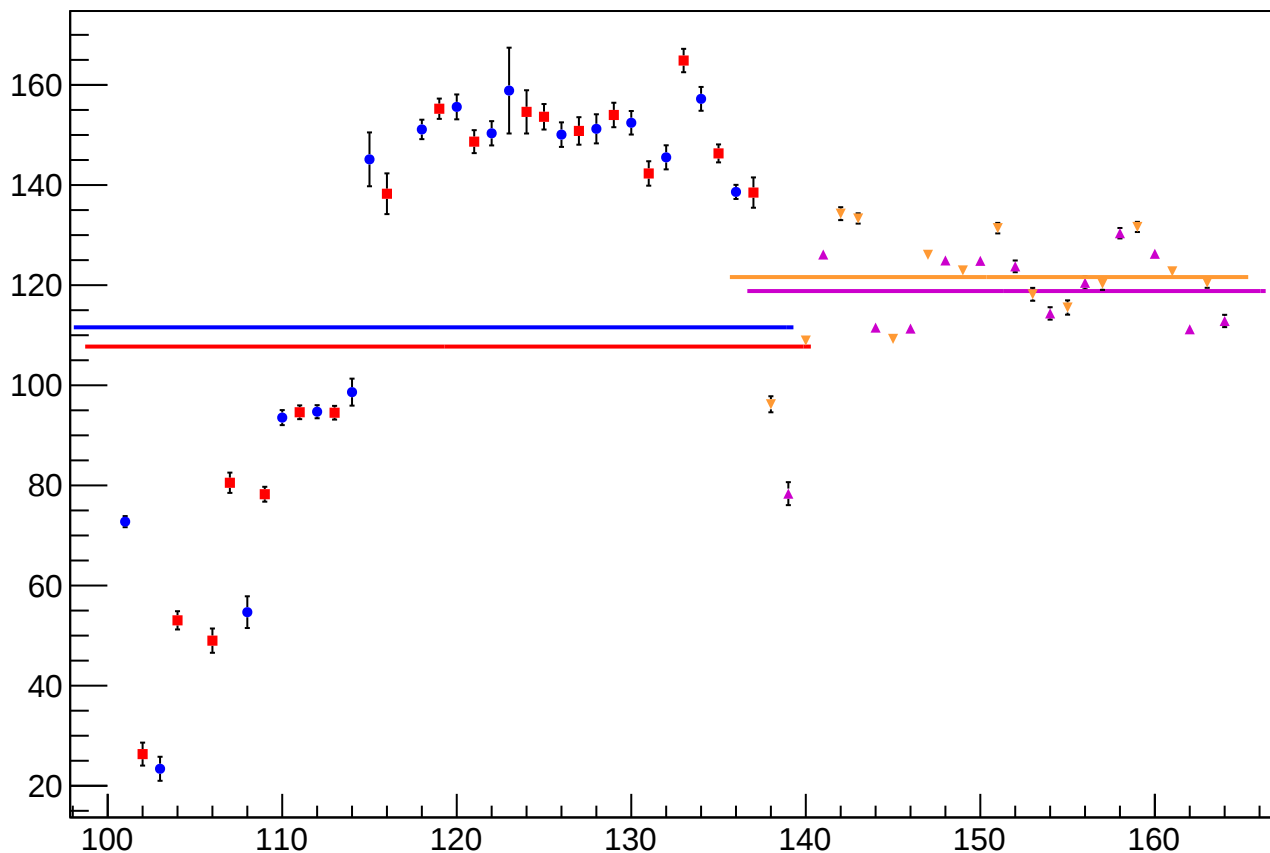
Left In:  $-81.027 \pm 0.339$   $\chi^2/\text{NDF}$ : 2046.2/12

+ sign  $-77.247 \pm 0.311$   $\chi^2/\text{NDF}$ : 4061.9/30

All:  $-77.276 \pm 0.218$   $\chi^2/\text{NDF}$ : 8069.6/61

- sign  $-77.304 \pm 0.306$   $\chi^2/\text{NDF}$ : 4007.7/30

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: 121.618 $\pm$ 0.283  $\chi^2$ /NDF:1086.6/13

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

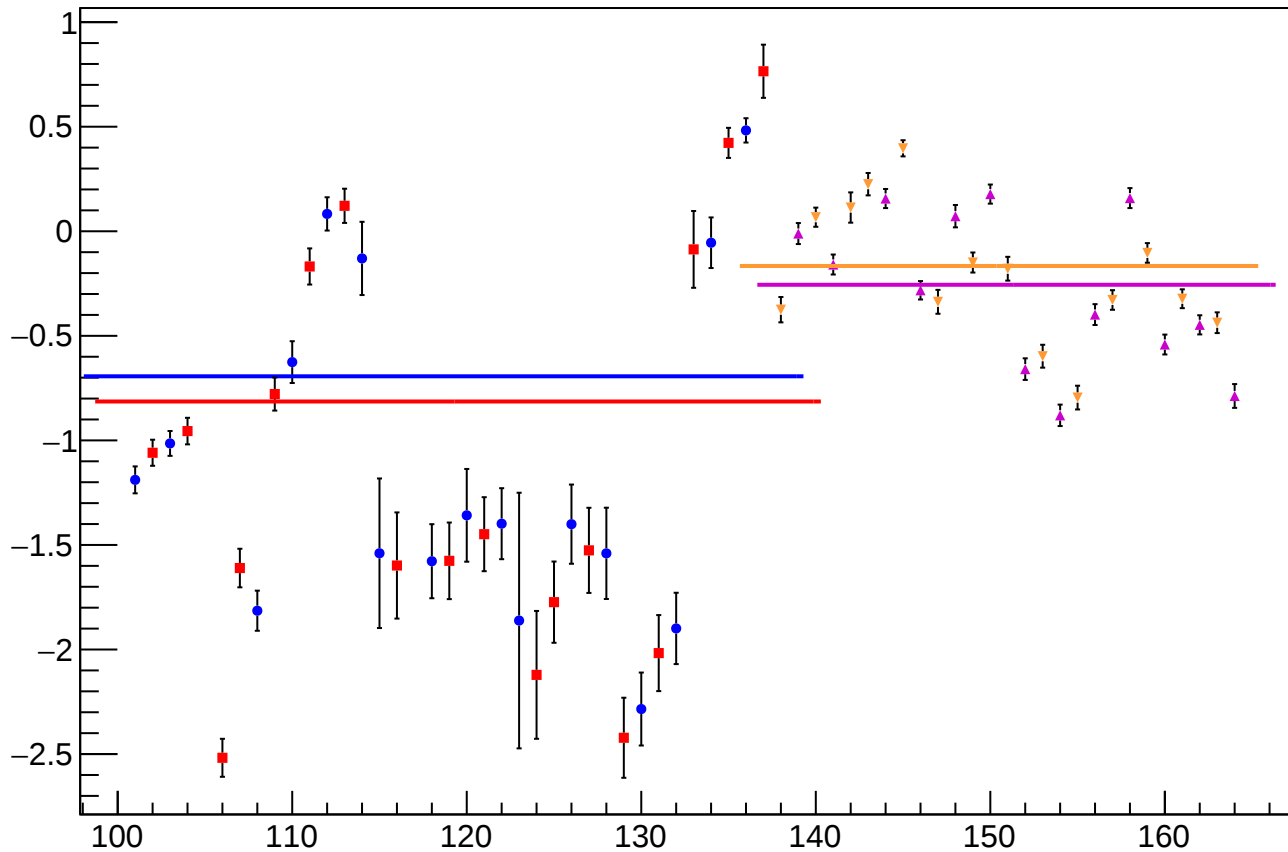
Left In: 118.824 $\pm$ 0.284  $\chi^2$ /NDF:920.9/12

+ sign 119.093 $\pm$ 0.244  $\chi^2$ /NDF: 7349.9/30

All: 117.563 $\pm$ 0.173  $\chi^2$ /NDF: 15570.5/61

- sign 116.017 $\pm$ 0.246  $\chi^2$ /NDF: 8141.8/30

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:  $-0.166 \pm 0.014$   $\chi^2/\text{NDF}$ : 568.5/13

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

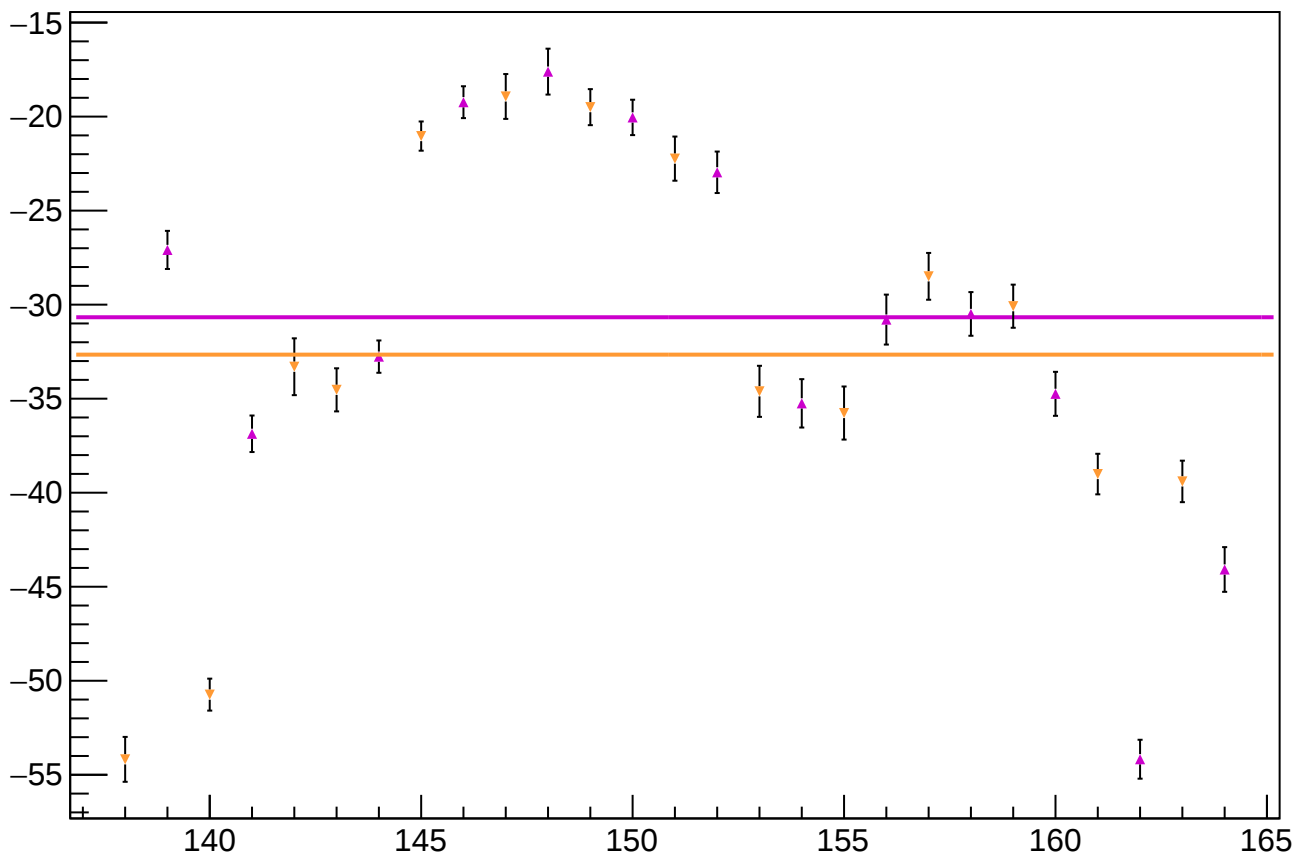
Left In:  $-0.256 \pm 0.014$   $\chi^2/\text{NDF}$ : 671.3/12

+ sign  $-0.280 \pm 0.012$   $\chi^2/\text{NDF}$ : 1887.0/30

All:  $-0.334 \pm 0.008$   $\chi^2/\text{NDF}$ : 4305.4/61

- sign  $-0.386 \pm 0.012$   $\chi^2/\text{NDF}$ : 2378.6/30

# 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: -32.658 +/- 0.294  $\chi^2/\text{NDF}$ : 1499.5/13

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

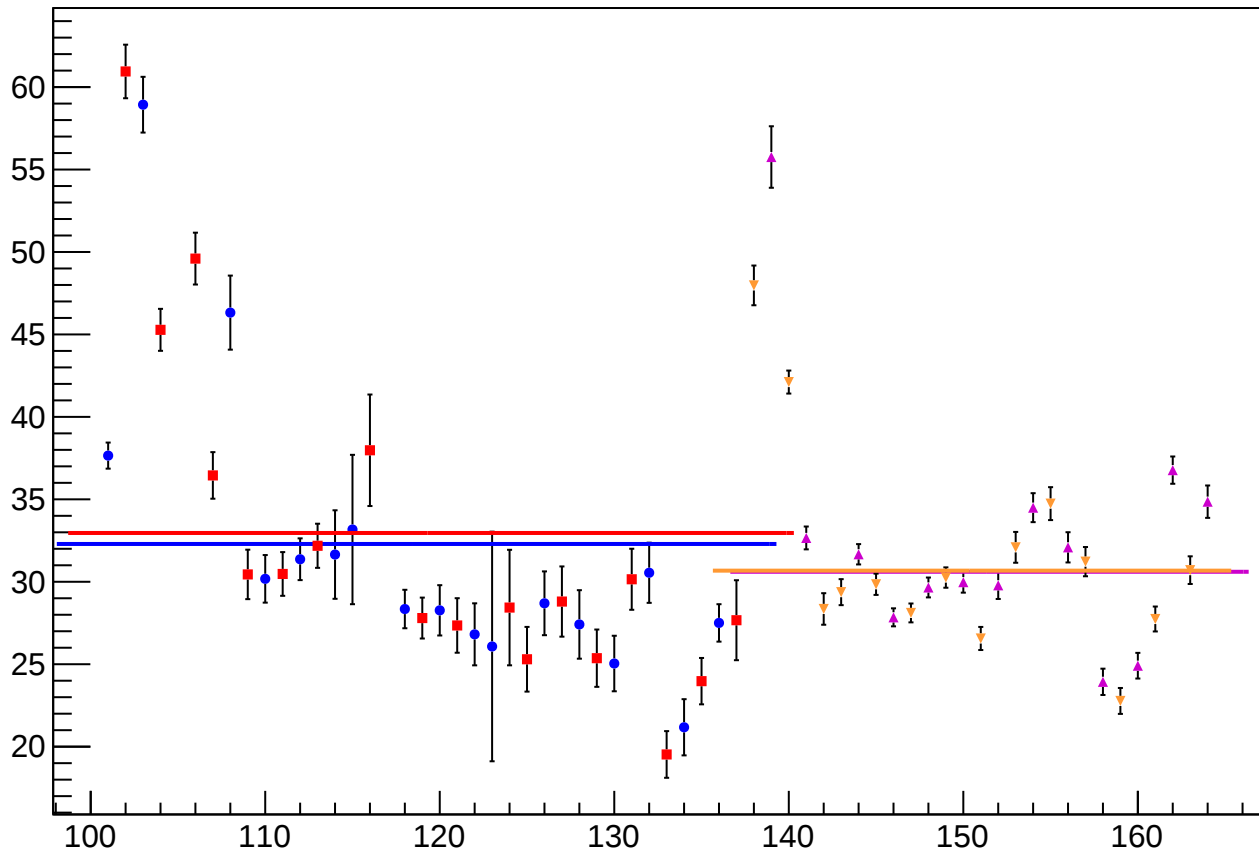
Left In: -30.670 +/- 0.292  $\chi^2/\text{NDF}$ : 1200.4/12

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

All: -31.660 +/- 0.207  $\chi^2/\text{NDF}$ : 2722.9/26

- 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:  $30.675 \pm 0.205$   $\chi^2/\text{NDF}: 675.8/13$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

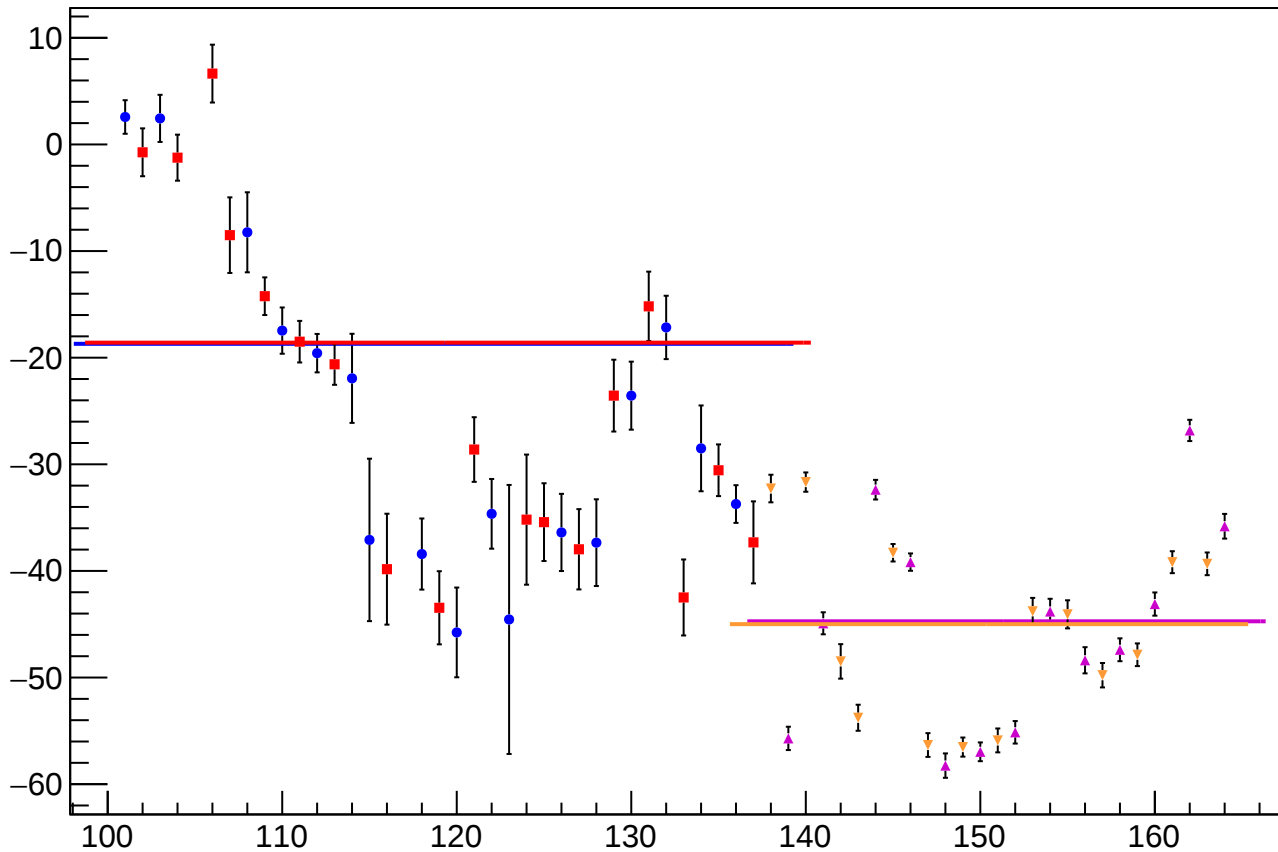
Left In:  $30.606 \pm 0.207$   $\chi^2/\text{NDF}: 443.7/12$

+ sign  $31.050 \pm 0.180$   $\chi^2/\text{NDF}: 1142.8/30$

All:  $31.098 \pm 0.128$   $\chi^2/\text{NDF}: 2340.3/61$

- sign  $31.147 \pm 0.182$   $\chi^2/\text{NDF}: 1197.3/30$

# 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:  $-44.993 \pm 0.290$   $\chi^2/\text{NDF}$ : 886.4/13

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}$ : 461.3/17

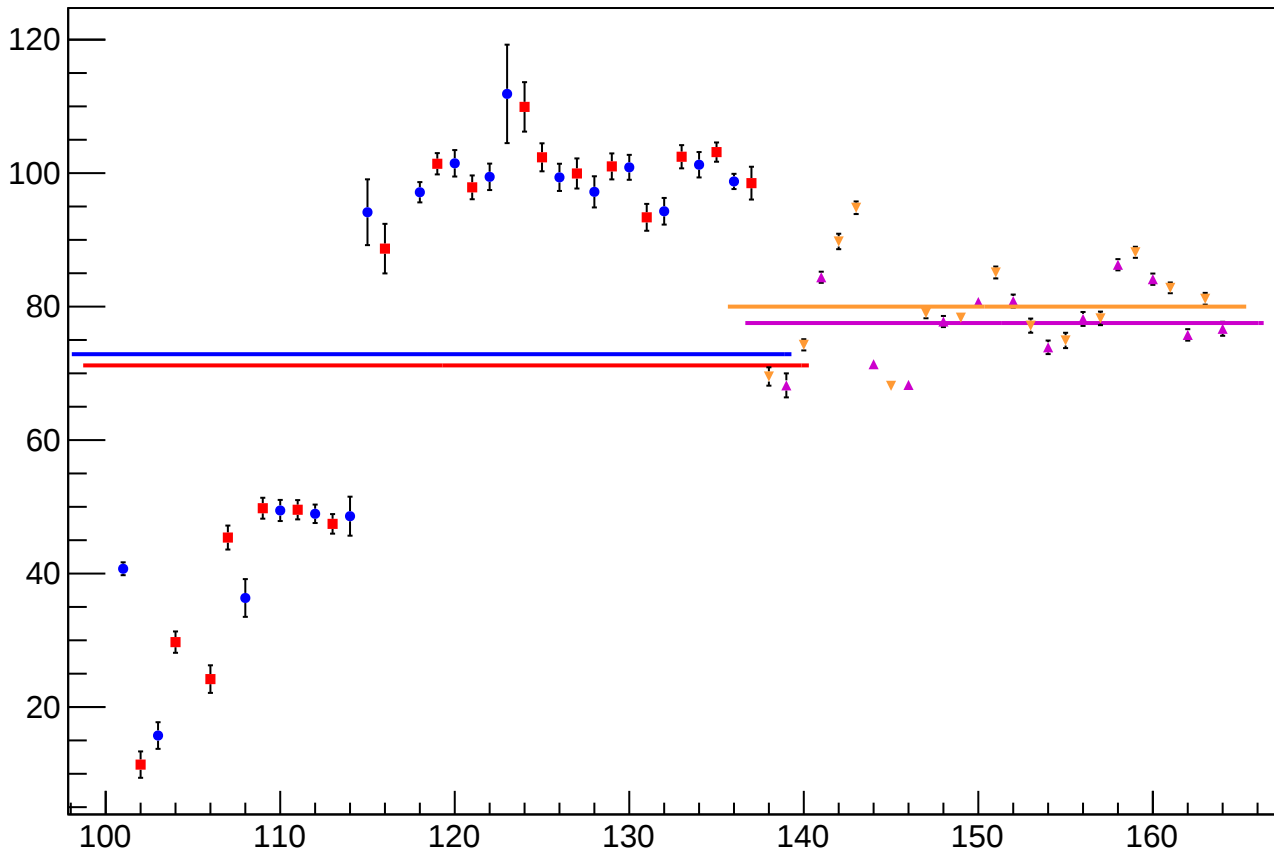
Left In:  $-44.725 \pm 0.286$   $\chi^2/\text{NDF}$ : 1157.5/12

+ sign  $-40.806 \pm 0.266$   $\chi^2/\text{NDF}$ : 2713.8/30

All:  $-40.632 \pm 0.186$   $\chi^2/\text{NDF}$ : 5696.9/61

- sign  $-40.464 \pm 0.261$   $\chi^2/\text{NDF}$ : 2982.2/30

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.870+/-0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 80.000+/-0.241  $\chi^2$ /NDF:857.7/13

Right Out: 71.190+/-0.434  $\chi^2$ /NDF: 5375.1/17

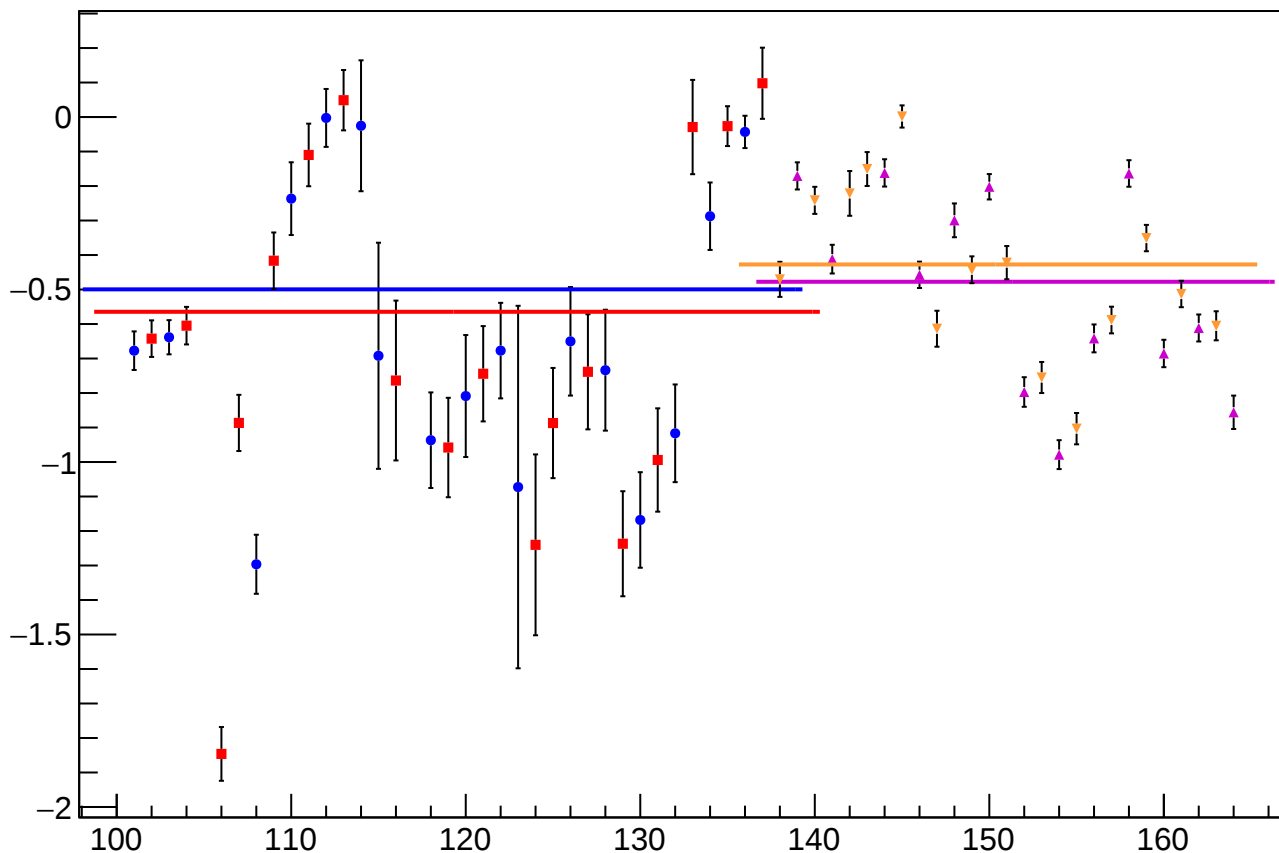
Left In: 77.539+/-0.242  $\chi^2$ /NDF:571.1/12

+ sign 78.275+/-0.210  $\chi^2$ /NDF: 5796.6/30

All: 77.163+/-0.149  $\chi^2$ /NDF: 11962.7/61

- sign 76.036+/-0.211  $\chi^2$ /NDF: 6109.6/30

# 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:  $-0.427 \pm 0.011$   $\chi^2/\text{NDF}$ : 462.4/13

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

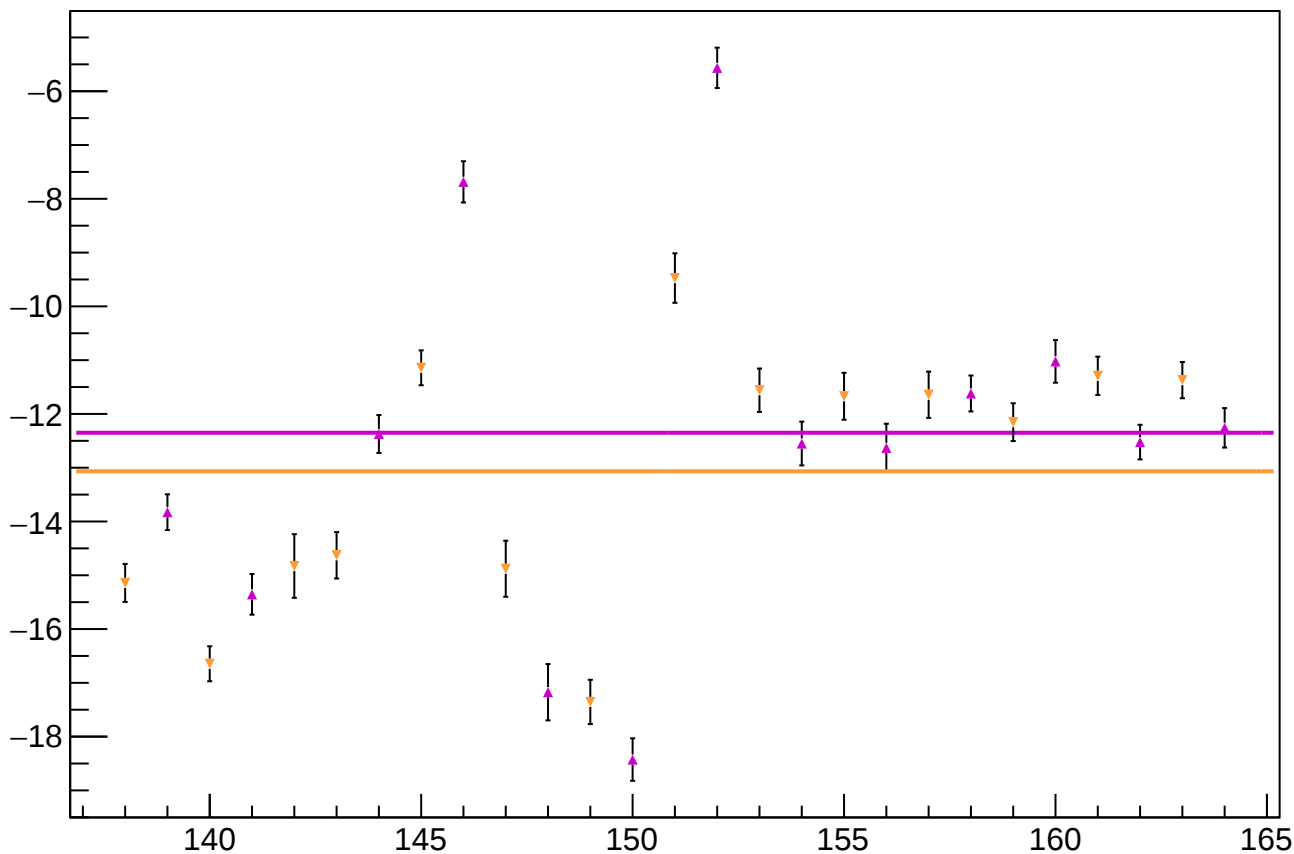
Left In:  $-0.478 \pm 0.011$   $\chi^2/\text{NDF}$ : 578.0/12

+ sign  $-0.442 \pm 0.010$   $\chi^2/\text{NDF}$ : 773.3/30

All:  $-0.470 \pm 0.007$   $\chi^2/\text{NDF}$ : 1937.7/61

- sign  $-0.496 \pm 0.010$   $\chi^2/\text{NDF}$ : 1150.1/30

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out:  $-13.066 \pm 0.105$   $\chi^2/\text{NDF}$ : 486.0/13

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

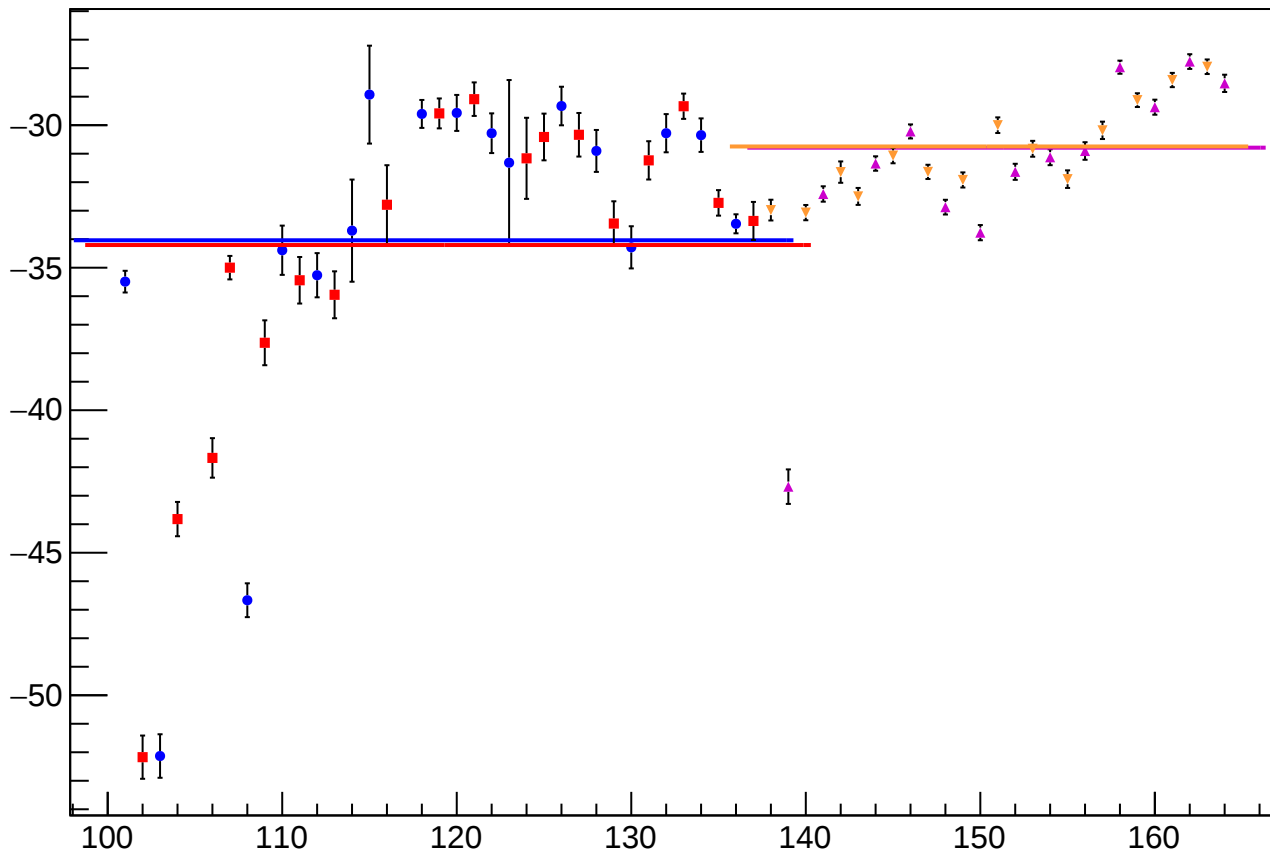
Left In:  $-12.350 \pm 0.105$   $\chi^2/\text{NDF}$ : 896.7/12

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

All:  $-12.707 \pm 0.074$   $\chi^2/\text{NDF}$ : 1406.0/26

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $-30.747 \pm 0.075$   $\chi^2/\text{NDF}$ : 463.4/13

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

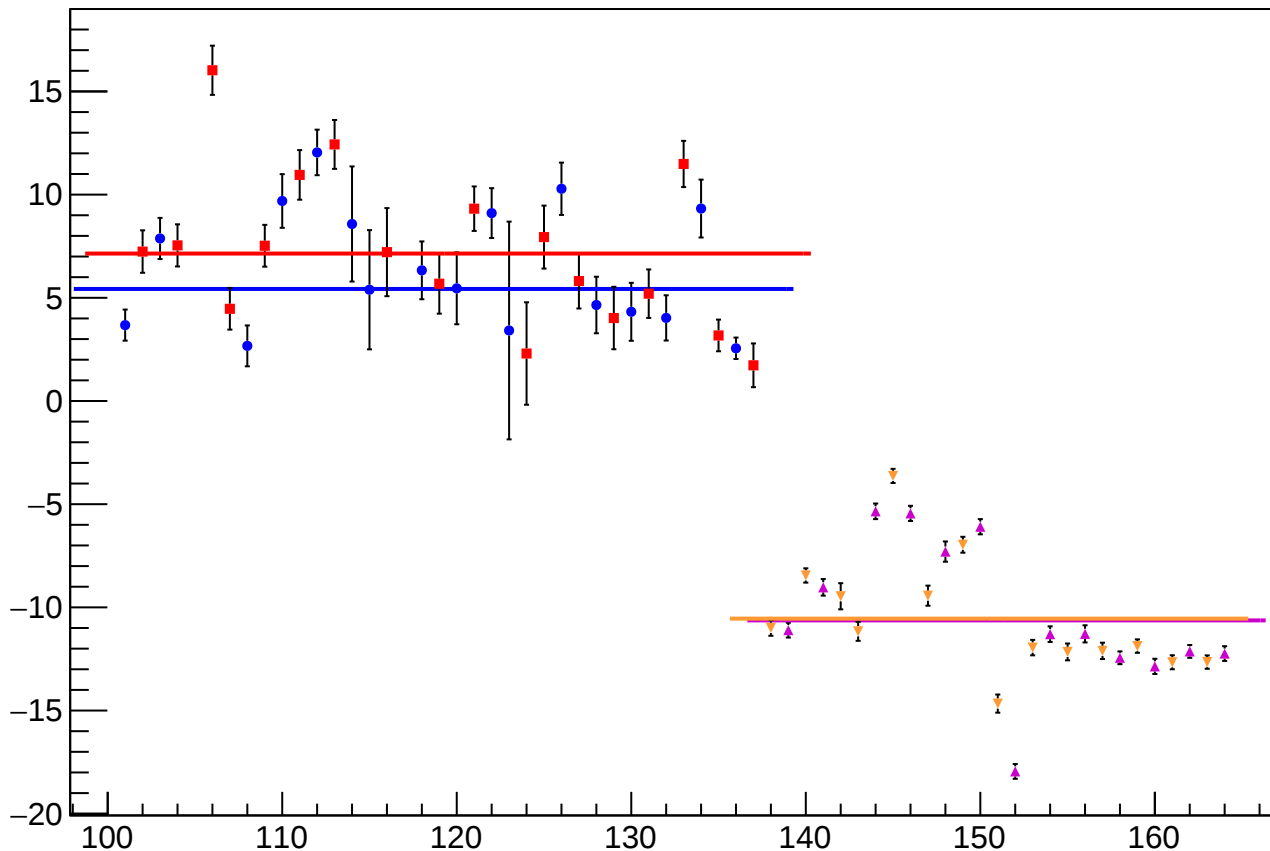
Left In:  $-30.789 \pm 0.076$   $\chi^2/\text{NDF}$ : 1004.0/12

+ sign  $-31.393 \pm 0.067$   $\chi^2/\text{NDF}$ : 2188.6/30

All:  $-31.437 \pm 0.048$   $\chi^2/\text{NDF}$ : 4923.1/61

- sign  $-31.483 \pm 0.068$   $\chi^2/\text{NDF}$ : 2733.6/30

# 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:  $-10.545 \pm 0.103$   $\chi^2/\text{NDF}: 770.6/13$

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}: 177.9/17$

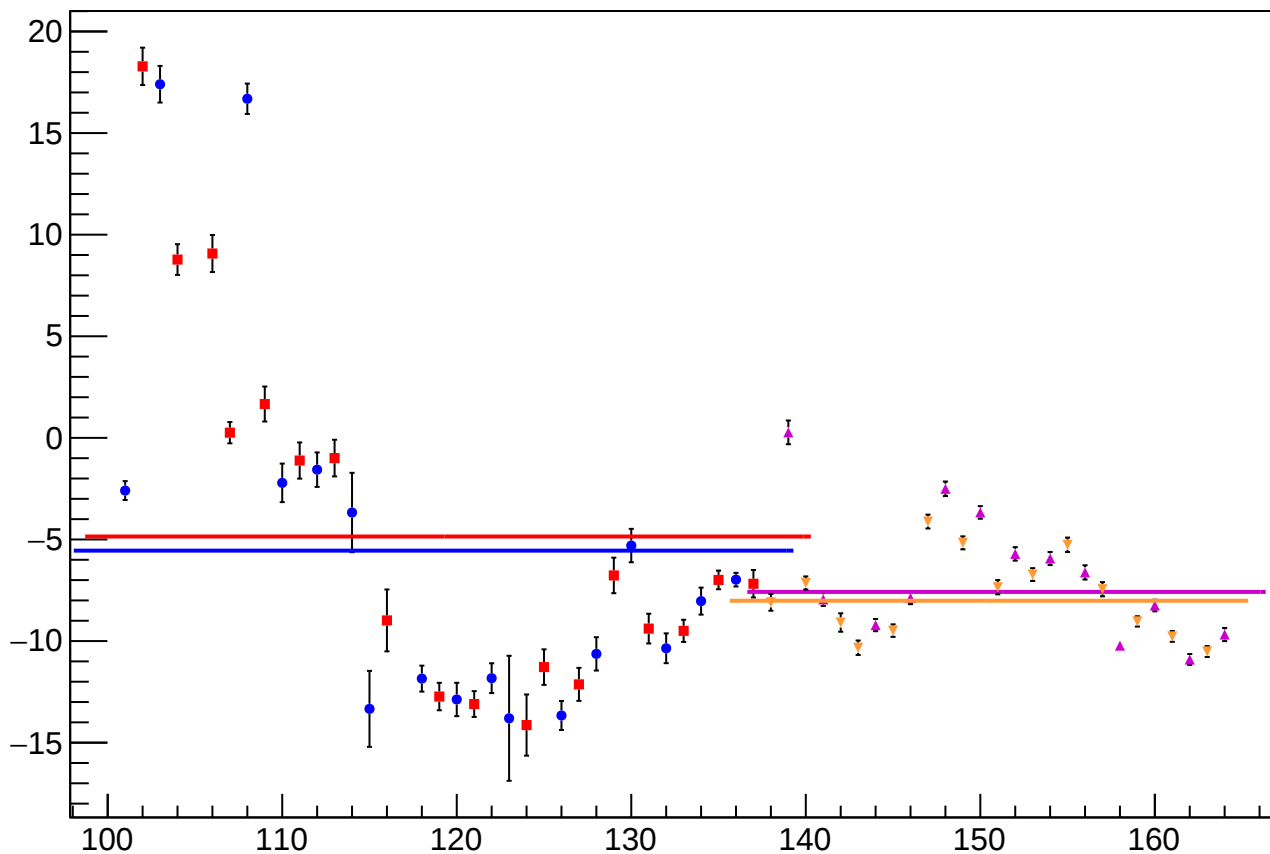
Left In:  $-10.632 \pm 0.102$   $\chi^2/\text{NDF}: 1144.8/12$

+ sign  $-8.510 \pm 0.096$   $\chi^2/\text{NDF}: 3960.1/30$

All:  $-8.498 \pm 0.068$   $\chi^2/\text{NDF}: 8958.7/61$

- sign  $-8.487 \pm 0.095$   $\chi^2/\text{NDF}: 4998.6/30$

# 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:  $-8.015 \pm 0.086$   $\chi^2/\text{NDF}$ : 515.4/13

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

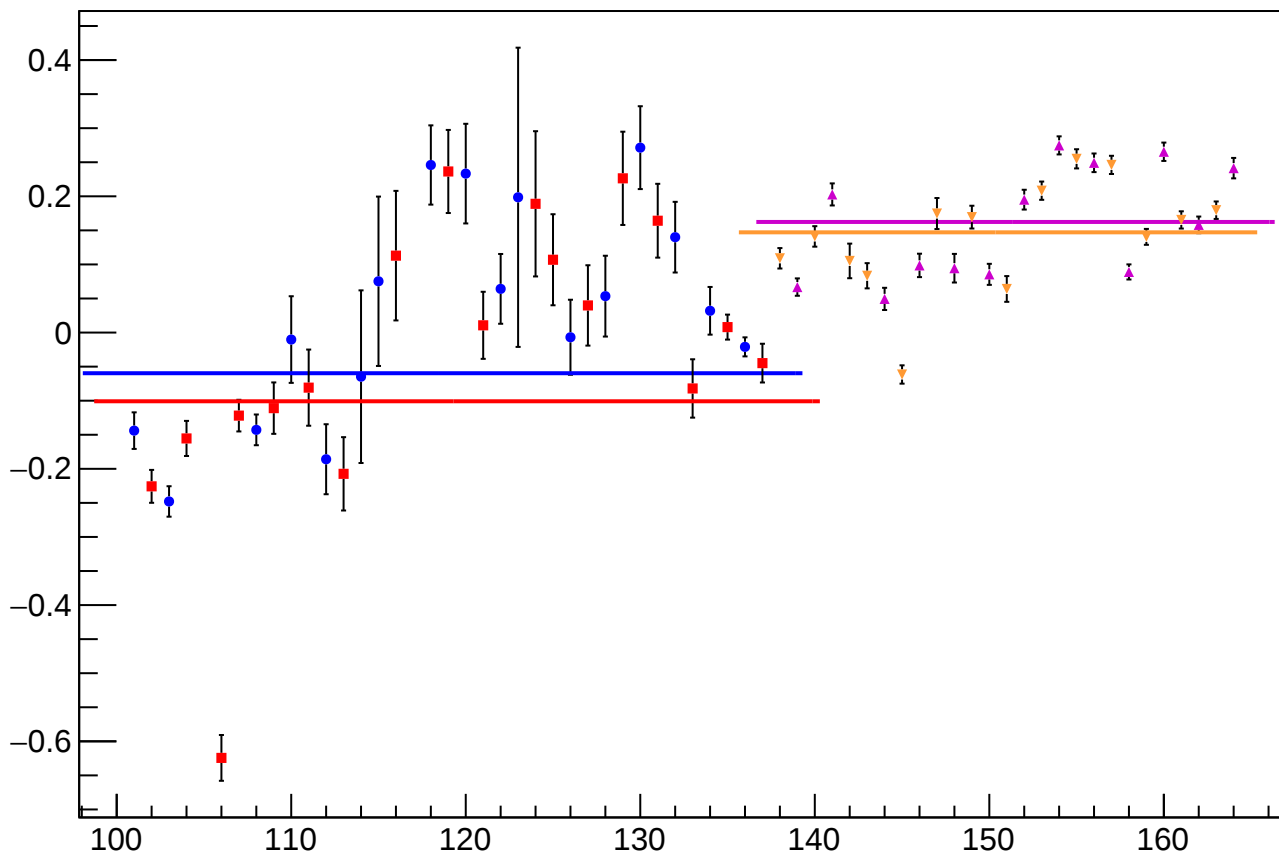
Left In:  $-7.581 \pm 0.087$   $\chi^2/\text{NDF}$ : 958.8/12

+ sign  $-7.511 \pm 0.077$   $\chi^2/\text{NDF}$ : 2809.0/30

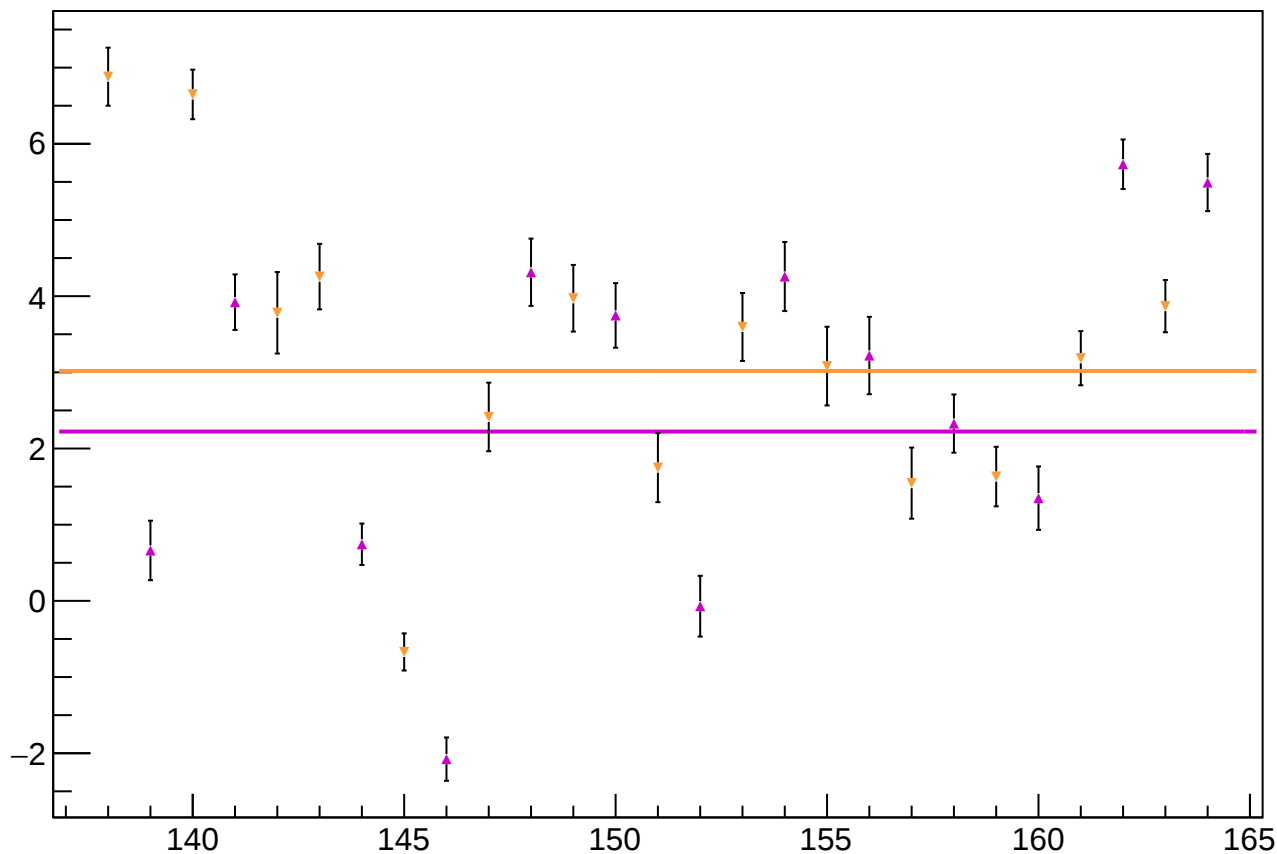
All:  $-7.273 \pm 0.055$   $\chi^2/\text{NDF}$ : 5998.9/61

- sign  $-7.029 \pm 0.078$   $\chi^2/\text{NDF}$ : 3170.5/30

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



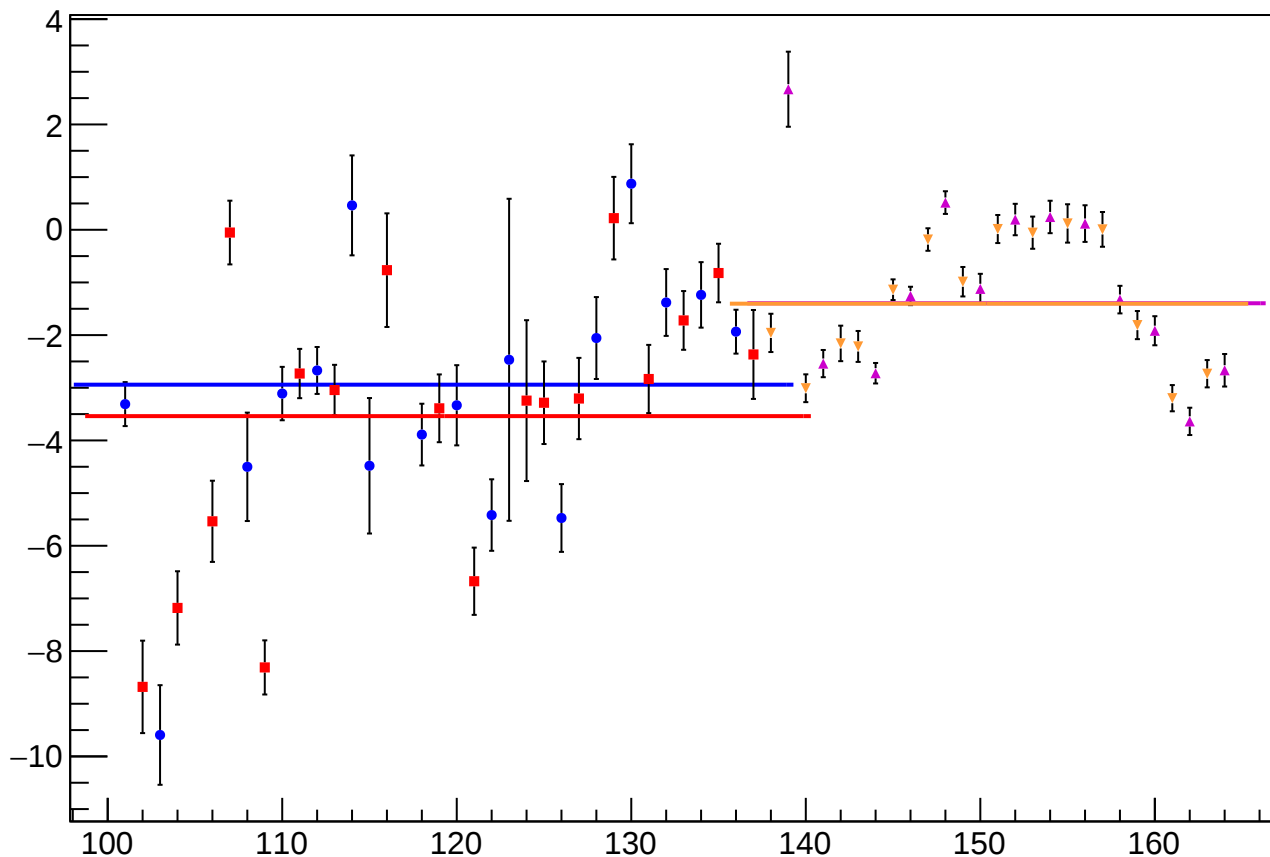
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.018 $\pm$ 0.103  $\chi^2$ /NDF:511.4/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.223 $\pm$ 0.103  $\chi^2$ /NDF:584.7/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 2.617 $\pm$ 0.073  $\chi^2$ /NDF: 1125.9/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-1.403 \pm 0.073$   $\chi^2/\text{NDF}$ : 252.6/13

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

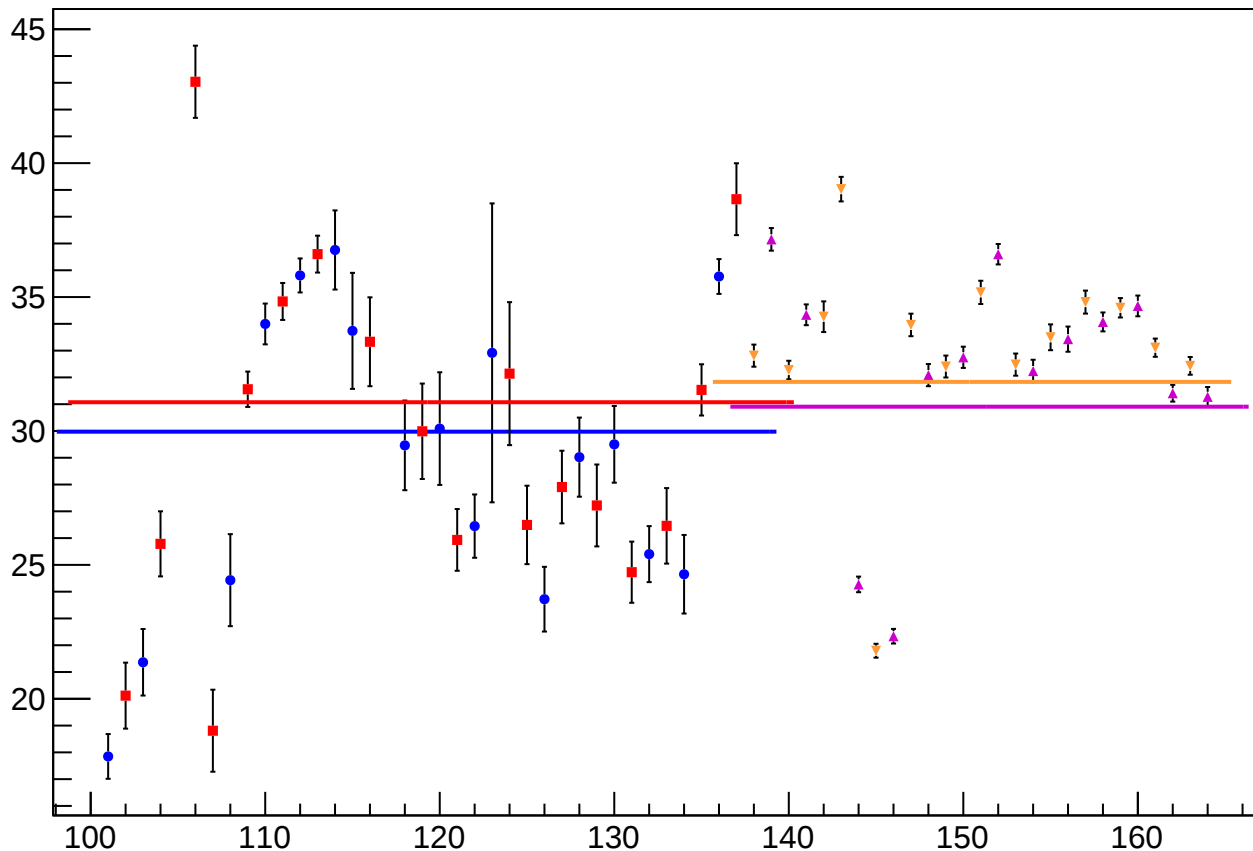
Left In:  $-1.395 \pm 0.072$   $\chi^2/\text{NDF}$ : 350.2/12

+ sign  $-1.683 \pm 0.066$   $\chi^2/\text{NDF}$ : 479.6/30

All:  $-1.730 \pm 0.046$   $\chi^2/\text{NDF}$ : 1272.3/61

- sign  $-1.777 \pm 0.065$   $\chi^2/\text{NDF}$ : 791.7/30

# 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: 31.833 $\pm$ 0.103  $\chi^2$ /NDF:1990.8/13

Right Out: 31.073 $\pm$ 0.260  $\chi^2$ /NDF: 453.4/17

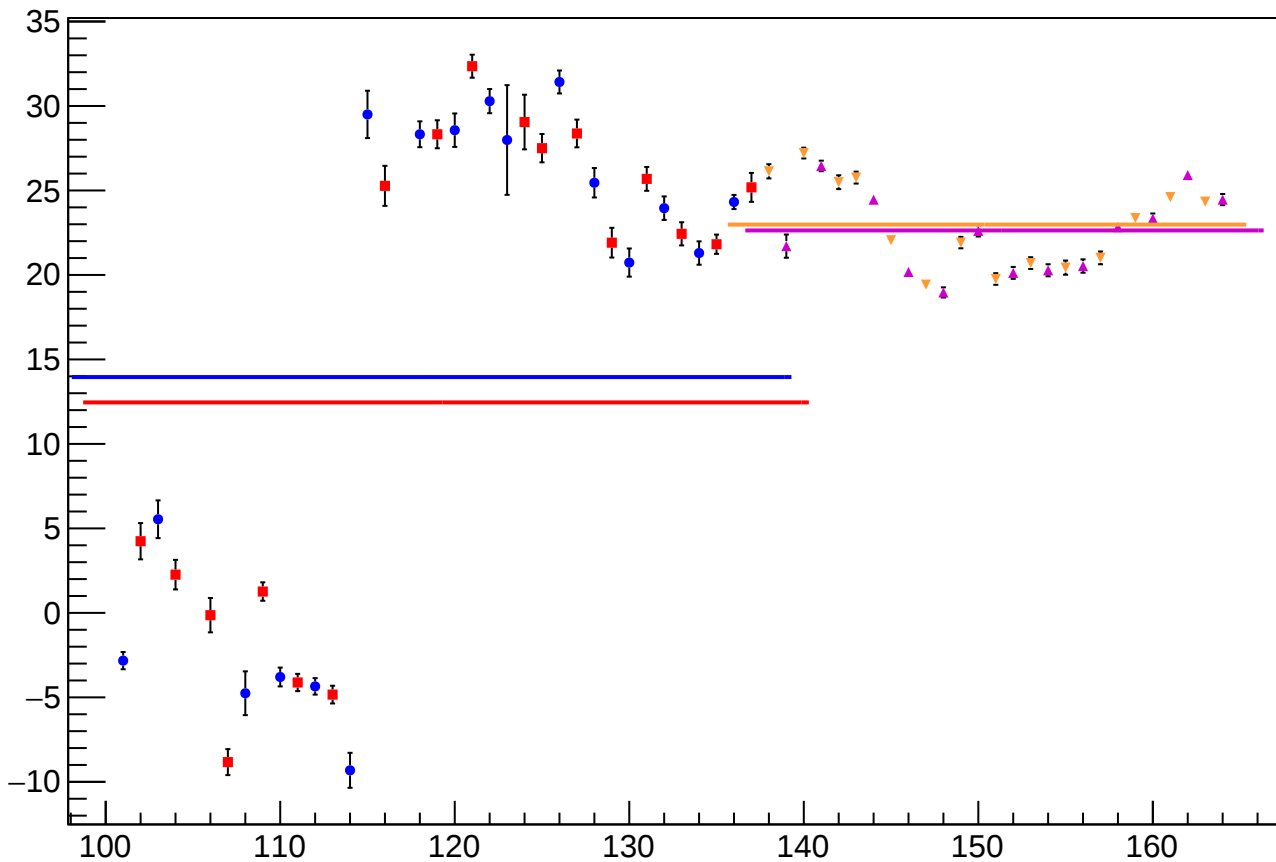
Left In: 30.906 $\pm$ 0.100  $\chi^2$ /NDF:2269.7/12

+ sign 31.594 $\pm$ 0.096  $\chi^2$ /NDF: 2586.9/30

All: 31.253 $\pm$ 0.067  $\chi^2$ /NDF: 5334.9/61

- sign 30.928 $\pm$ 0.094  $\chi^2$ /NDF: 2723.4/30

# 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: 22.981 $\pm$ 0.085  $\chi^2$ /NDF: 761.5/13

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

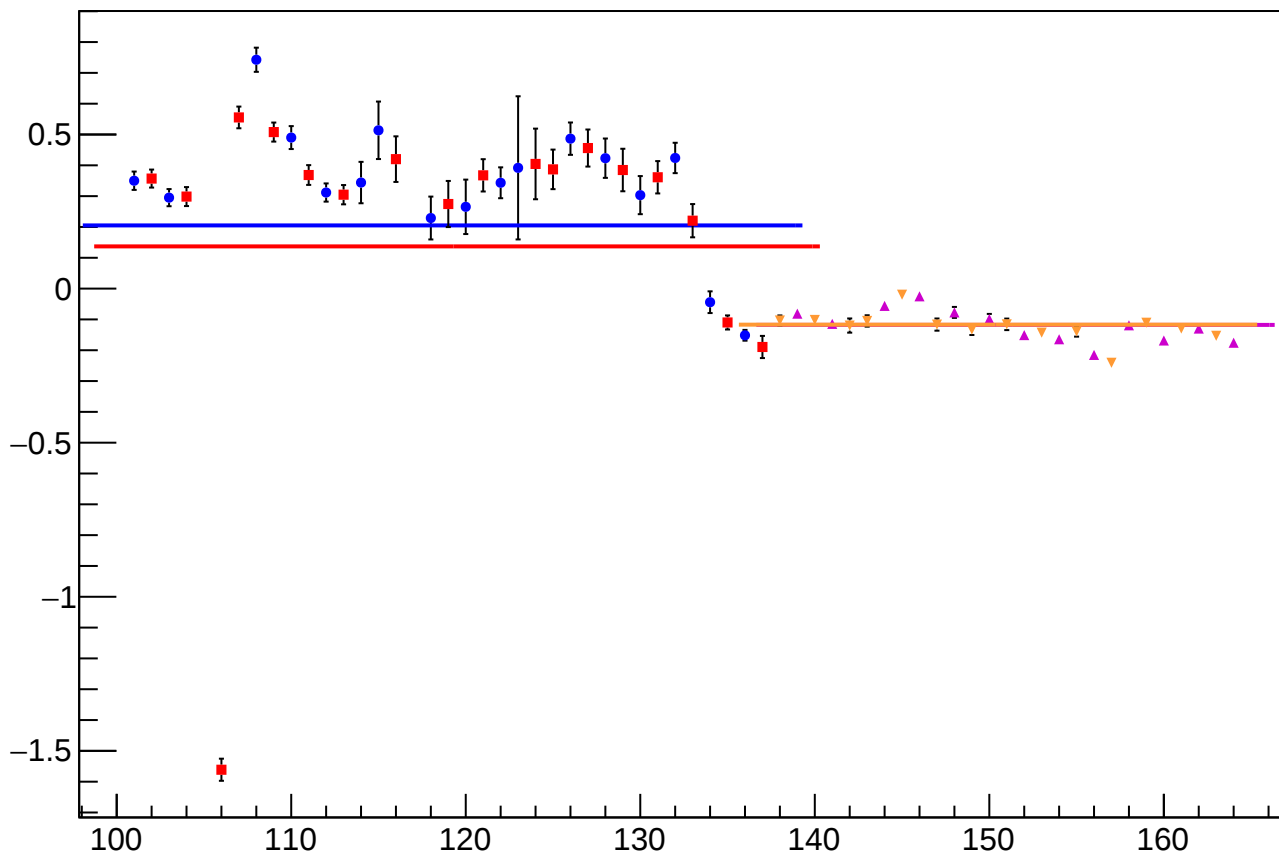
Left In: 22.634 $\pm$ 0.084  $\chi^2$ /NDF: 794.3/12

+ sign 21.218 $\pm$ 0.076  $\chi^2$ /NDF: 10317.2/30

All: 20.959 $\pm$ 0.054  $\chi^2$ /NDF: 20894.5/61

- sign 20.703 $\pm$ 0.076  $\chi^2$ /NDF: 10554.2/30

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:  $-0.117 \pm 0.004$   $\chi^2/\text{NDF}$ : 180.7/13

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}$ : 3007.9/17

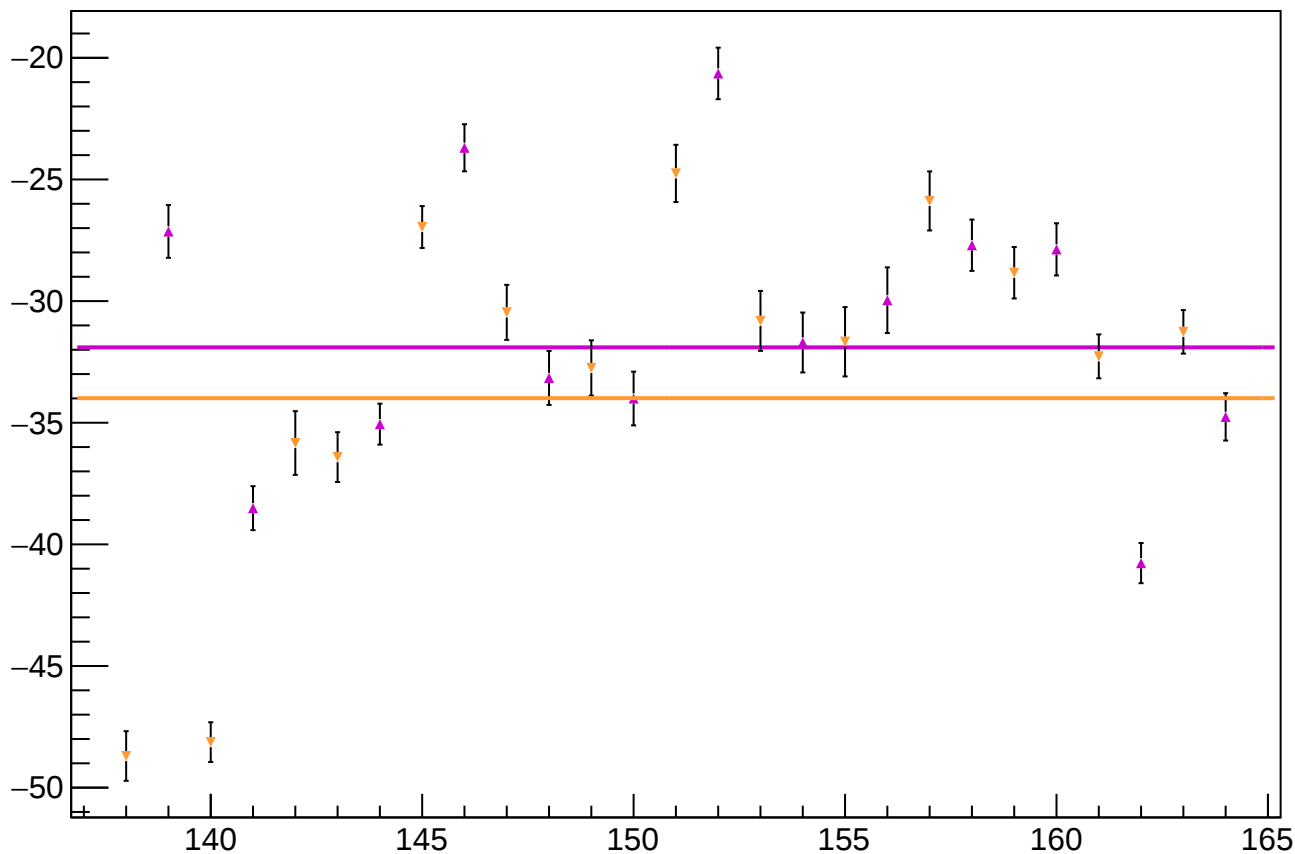
Left In:  $-0.118 \pm 0.004$   $\chi^2/\text{NDF}$ : 172.2/12

+ sign  $-0.067 \pm 0.004$   $\chi^2/\text{NDF}$ : 2025.2/30

All:  $-0.072 \pm 0.003$   $\chi^2/\text{NDF}$ : 5853.1/61

- sign  $-0.078 \pm 0.004$   $\chi^2/\text{NDF}$ : 3823.8/30

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: -33.990+/-0.279  $\chi^2/\text{NDF}$ : 745.6/13

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

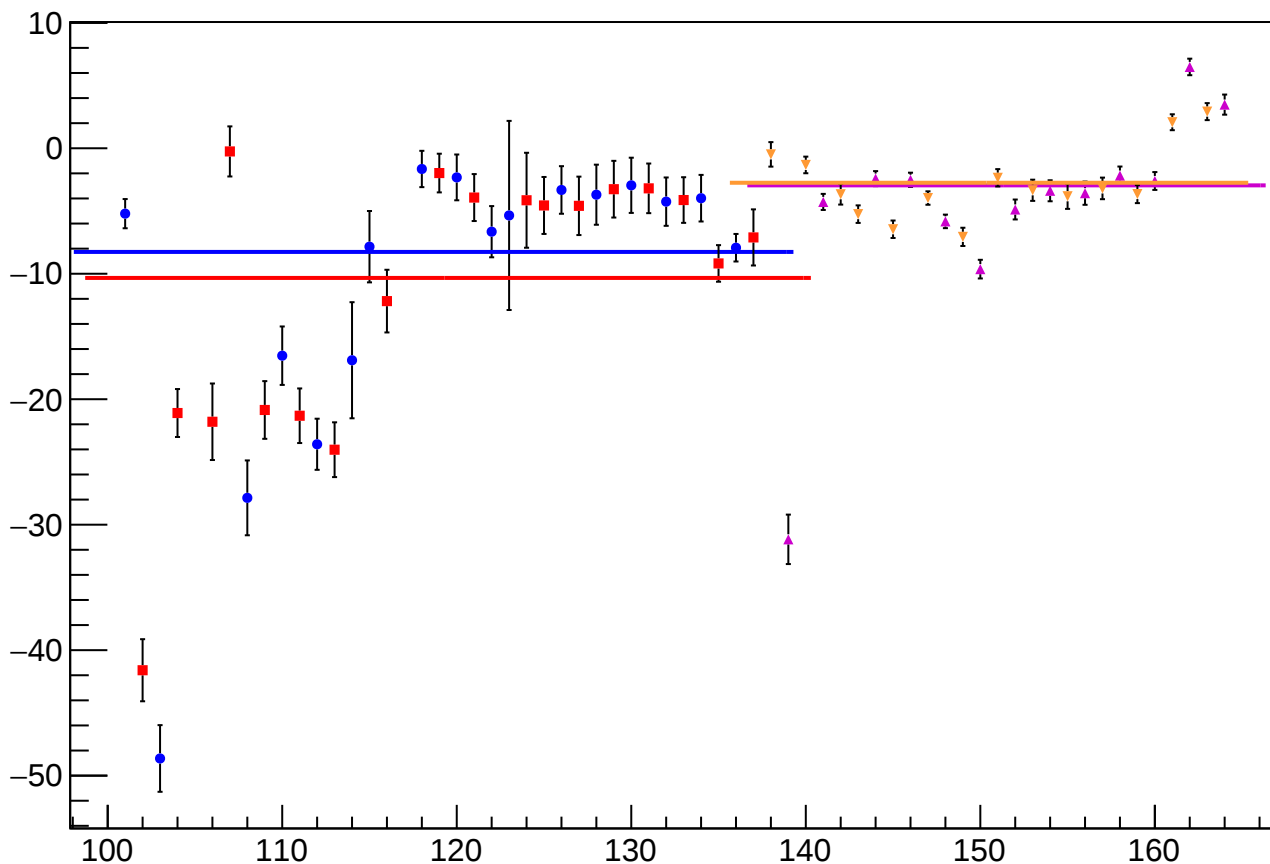
Left In: -31.902+/-0.282  $\chi^2/\text{NDF}$ : 432.9/12

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

All: -32.957+/-0.198  $\chi^2/\text{NDF}$ : 1206.2/26

- 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:  $-2.748 \pm 0.194$   $\chi^2/\text{NDF}$ : 224.3/13

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}$ : 410.9/17

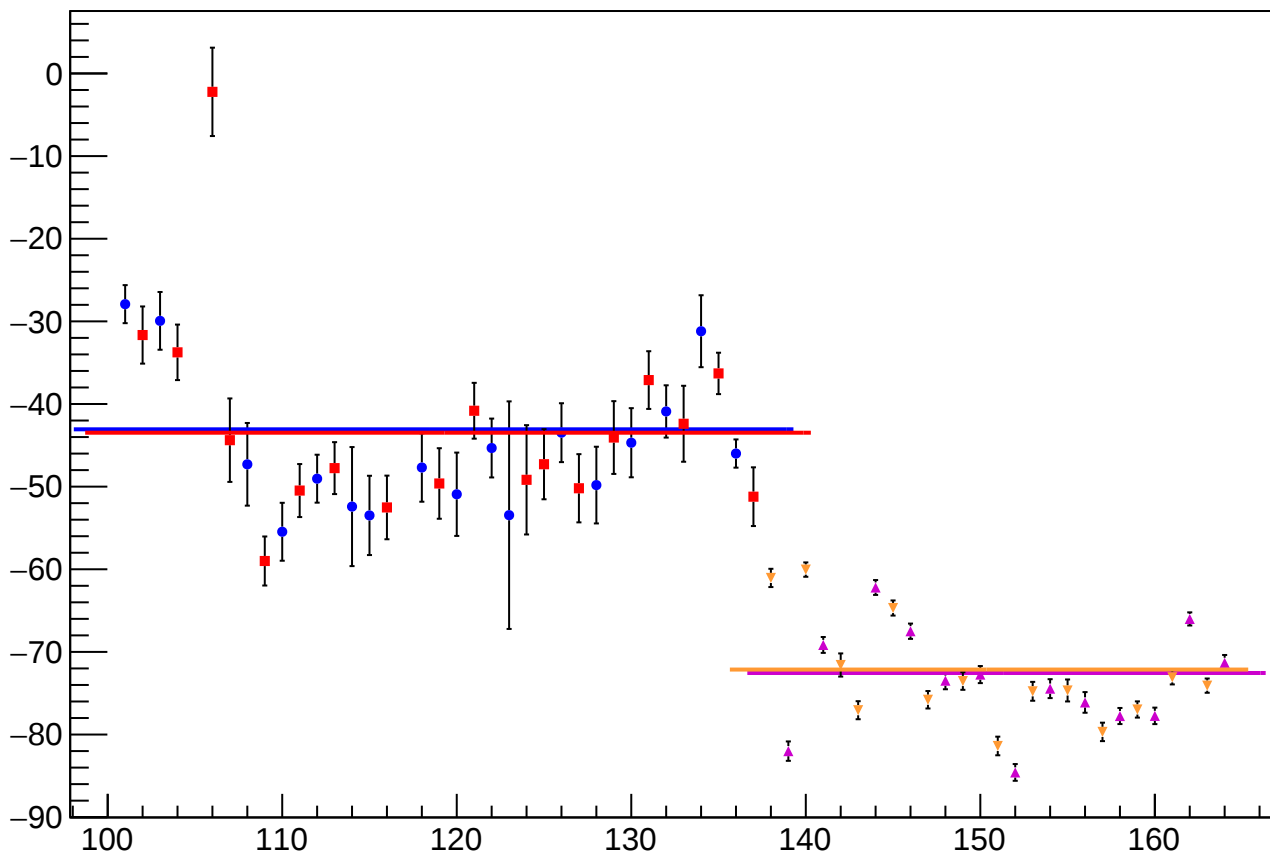
Left In:  $-2.957 \pm 0.197$   $\chi^2/\text{NDF}$ : 597.2/12

+ sign  $-3.569 \pm 0.179$   $\chi^2/\text{NDF}$ : 757.1/30

All:  $-3.770 \pm 0.128$   $\chi^2/\text{NDF}$ : 1962.1/61

- sign  $-3.980 \pm 0.183$   $\chi^2/\text{NDF}$ : 1202.4/30

# 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:  $-72.136 \pm 0.276$   $\chi^2/\text{NDF}: 547.2/13$

Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$

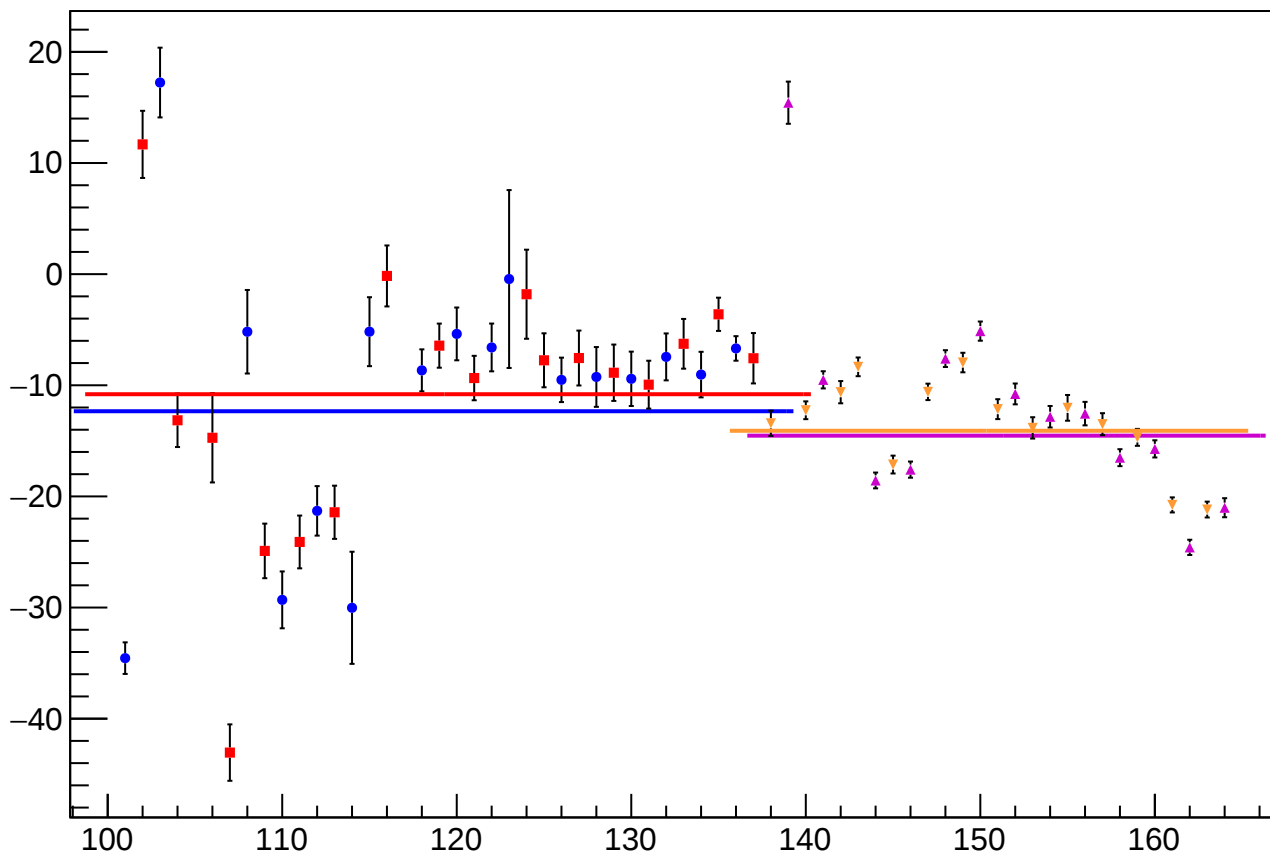
Left In:  $-72.550 \pm 0.275$   $\chi^2/\text{NDF}: 517.0/12$

+ sign  $-69.271 \pm 0.262$   $\chi^2/\text{NDF}: 1738.1/30$

All:  $-69.584 \pm 0.185$   $\chi^2/\text{NDF}: 3418.4/61$

- sign  $-69.898 \pm 0.262$   $\chi^2/\text{NDF}: 1677.4/30$

# 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:  $-14.094 \pm 0.227$   $\chi^2/\text{NDF}$ : 354.5/13

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

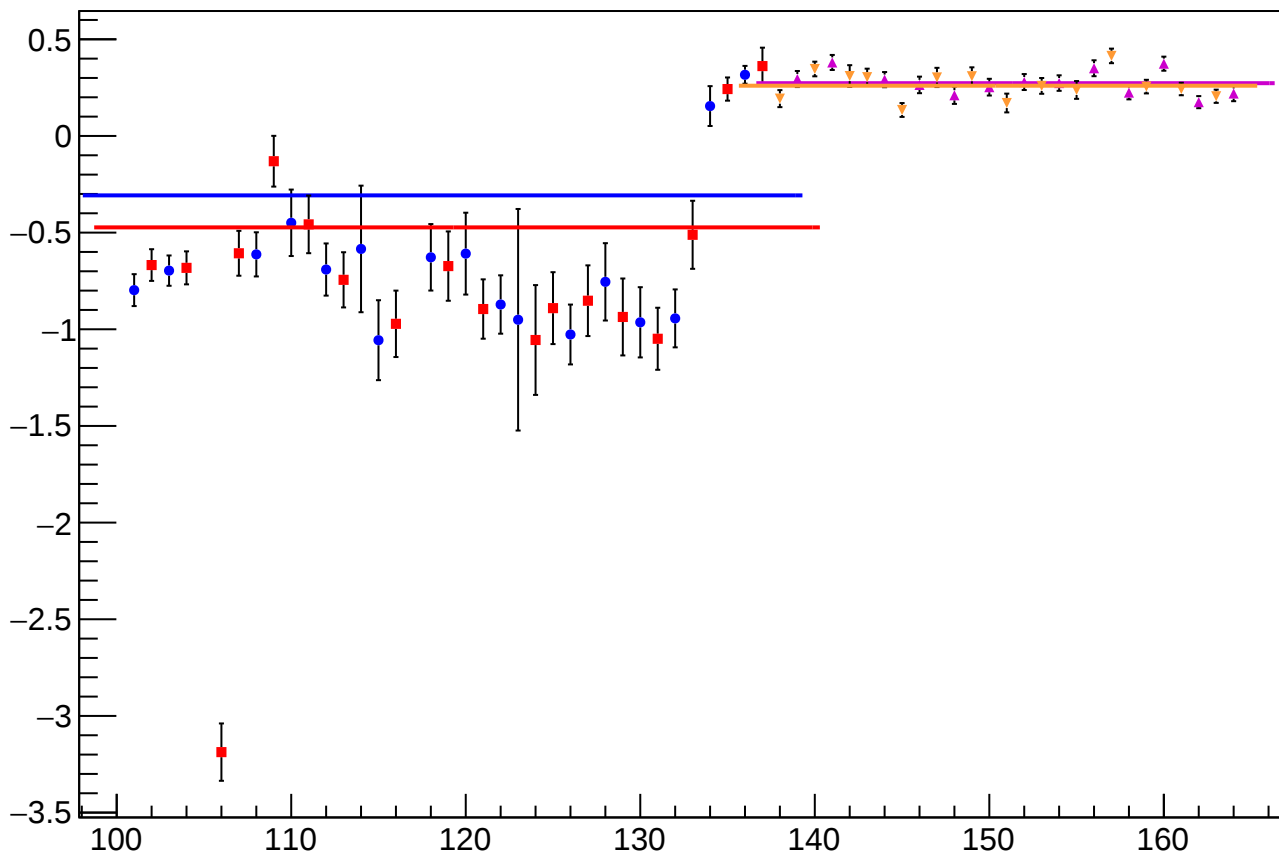
Left In:  $-14.533 \pm 0.230$   $\chi^2/\text{NDF}$ : 847.7/12

+ sign  $-13.813 \pm 0.208$   $\chi^2/\text{NDF}$ : 839.2/30

All:  $-13.896 \pm 0.149$   $\chi^2/\text{NDF}$ : 2087.3/61

- sign  $-13.984 \pm 0.212$   $\chi^2/\text{NDF}$ : 1247.7/30

# 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:  $0.260 \pm 0.011$   $\chi^2/\text{NDF}$ : 46.6/13

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

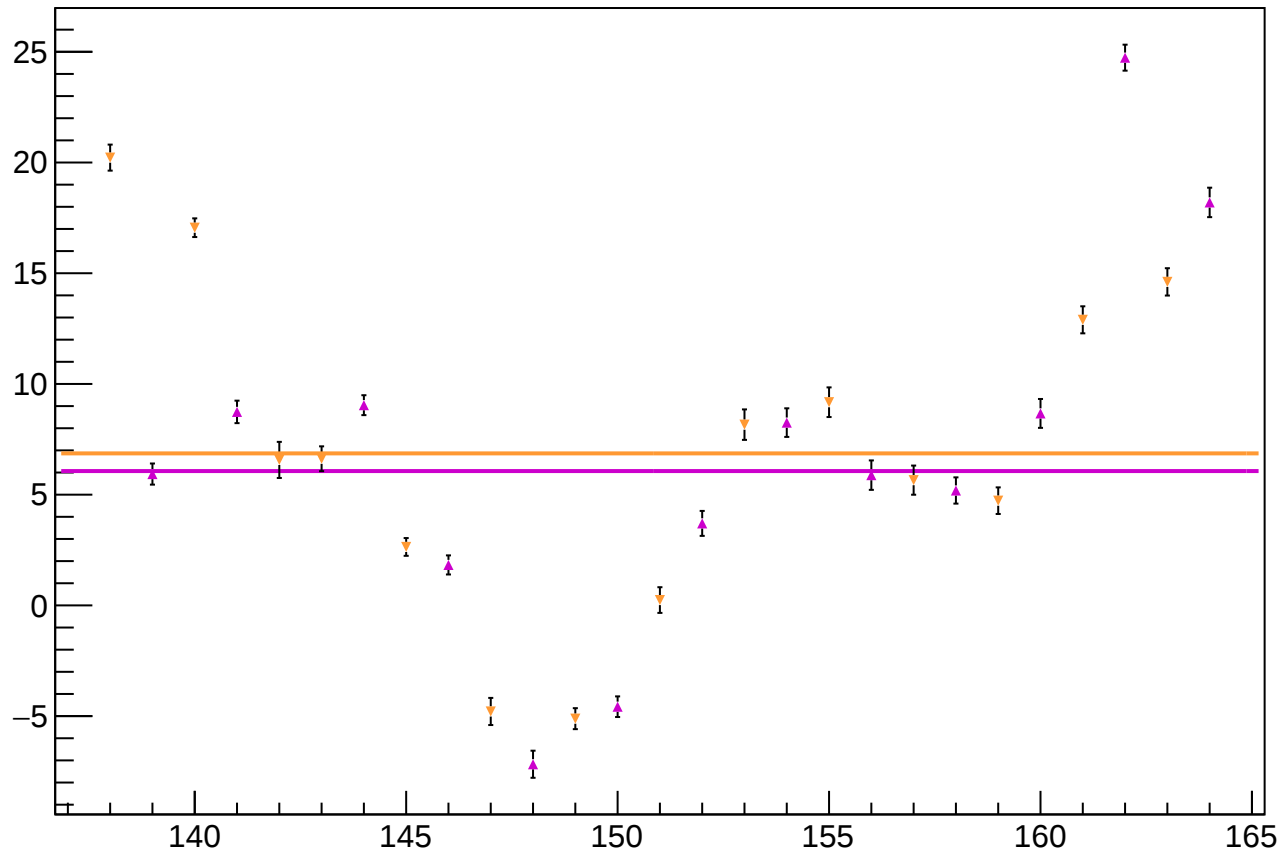
Left In:  $0.273 \pm 0.011$   $\chi^2/\text{NDF}$ : 35.1/12

+ sign  $0.184 \pm 0.010$   $\chi^2/\text{NDF}$ : 786.5/30

All:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 2042.2/61

- sign  $0.179 \pm 0.010$   $\chi^2/\text{NDF}$ : 1255.5/30

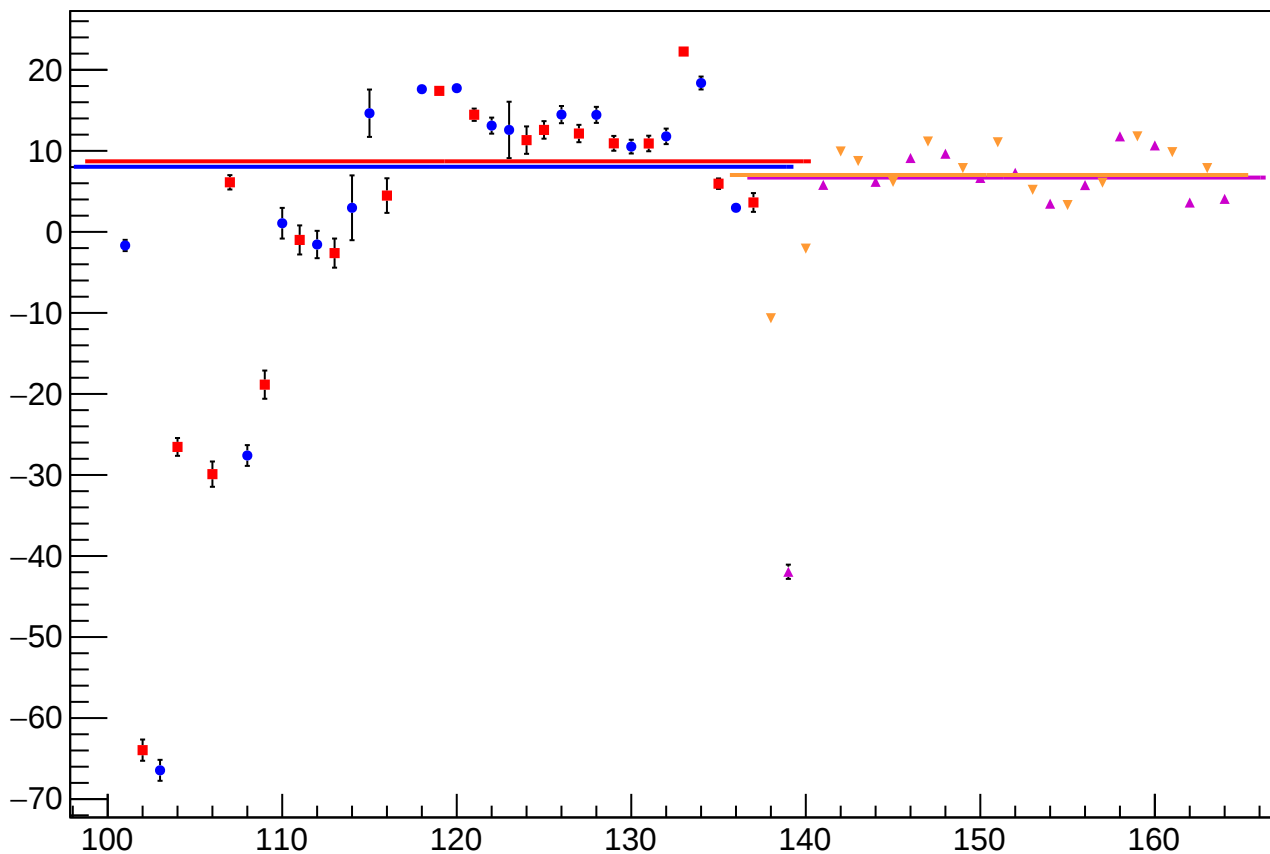
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.864+/-0.150  $\chi^2/\text{NDF}$ : 2629.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.066+/-0.151  $\chi^2/\text{NDF}$ : 2550.4/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 6.466+/-0.106  $\chi^2/\text{NDF}$ : 5193.7/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $7.021 \pm 0.105$   $\chi^2/\text{NDF}: 2215.8/13$

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}: 6290.2/17$

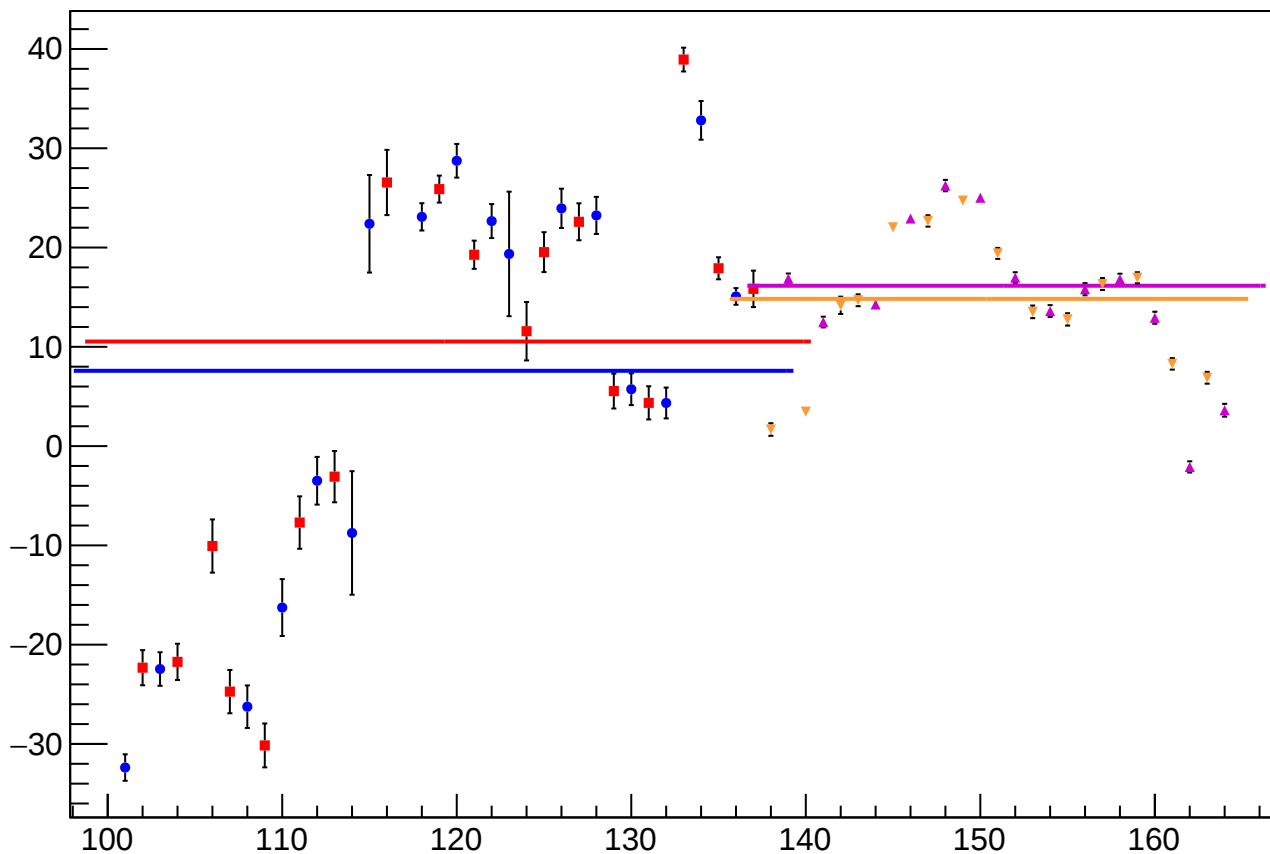
Left In:  $6.702 \pm 0.107$   $\chi^2/\text{NDF}: 3603.5/12$

+ sign  $7.216 \pm 0.094$   $\chi^2/\text{NDF}: 7604.0/30$

All:  $7.162 \pm 0.067$   $\chi^2/\text{NDF}: 17569.0/61$

- sign  $7.107 \pm 0.096$   $\chi^2/\text{NDF}: 9964.4/30$

# 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: 14.833 $\pm$ 0.149     $\chi^2/\text{NDF}$ :2449.0/13

Right Out: 10.532 $\pm$ 0.418     $\chi^2/\text{NDF}$ : 2279.5/17

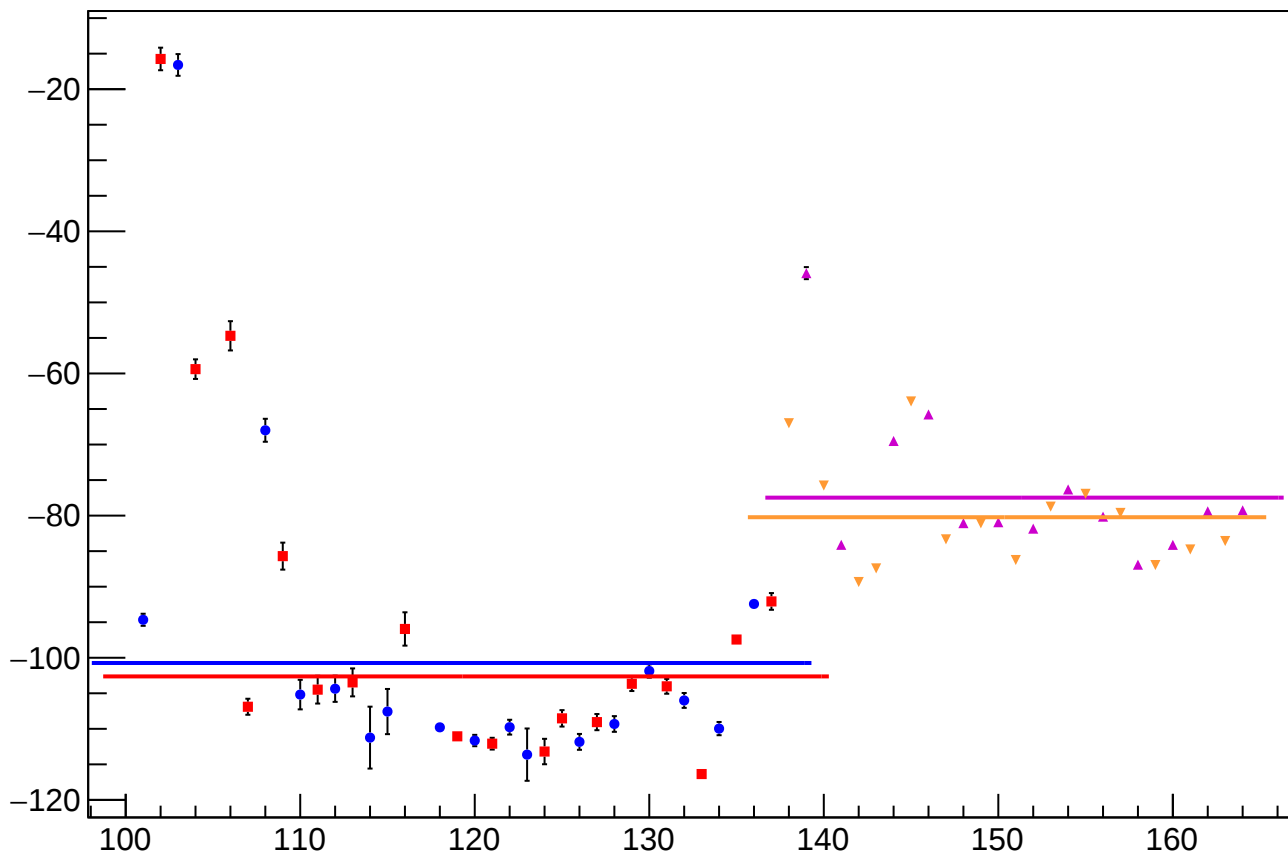
Left In: 16.154 $\pm$ 0.147     $\chi^2/\text{NDF}$ :2521.4/12

+ sign 14.013 $\pm$ 0.140     $\chi^2/\text{NDF}$ : 5040.6/30

All: 14.778 $\pm$ 0.099     $\chi^2/\text{NDF}$ : 10061.9/61

- sign 15.531 $\pm$ 0.139     $\chi^2/\text{NDF}$ : 4962.1/30

# 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:  $-80.227 \pm 0.124$   $\chi^2/\text{NDF}$ : 3474.9/13

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}$ : 5716.3/17

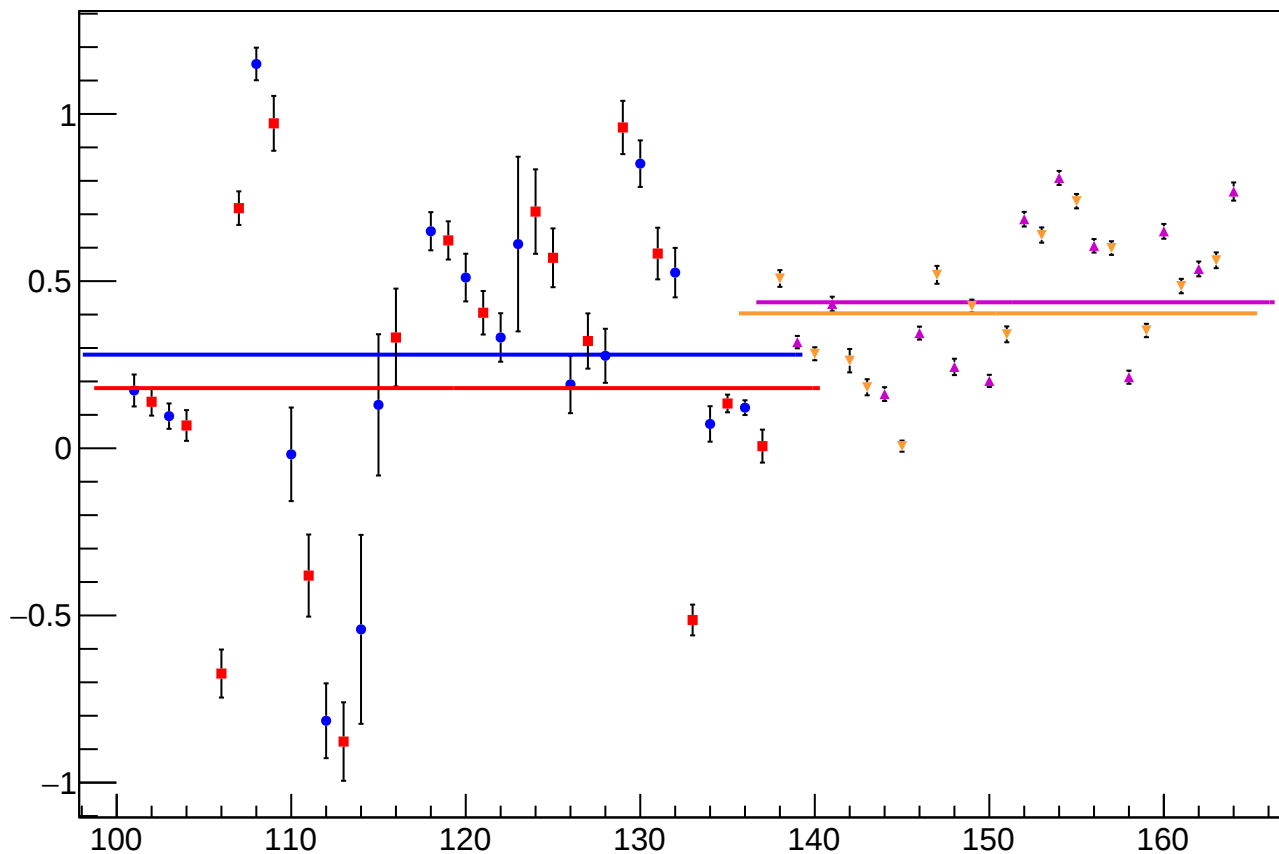
Left In:  $-77.472 \pm 0.125$   $\chi^2/\text{NDF}$ : 4195.5/12

+ sign  $-84.308 \pm 0.111$   $\chi^2/\text{NDF}$ : 13460.0/30

All:  $-83.485 \pm 0.079$   $\chi^2/\text{NDF}$ : 31779.0/61

- sign  $-82.648 \pm 0.112$   $\chi^2/\text{NDF}$ : 18207.6/30

# 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:  $0.404 \pm 0.006$   $\chi^2/\text{NDF}$ : 1256.9/13

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

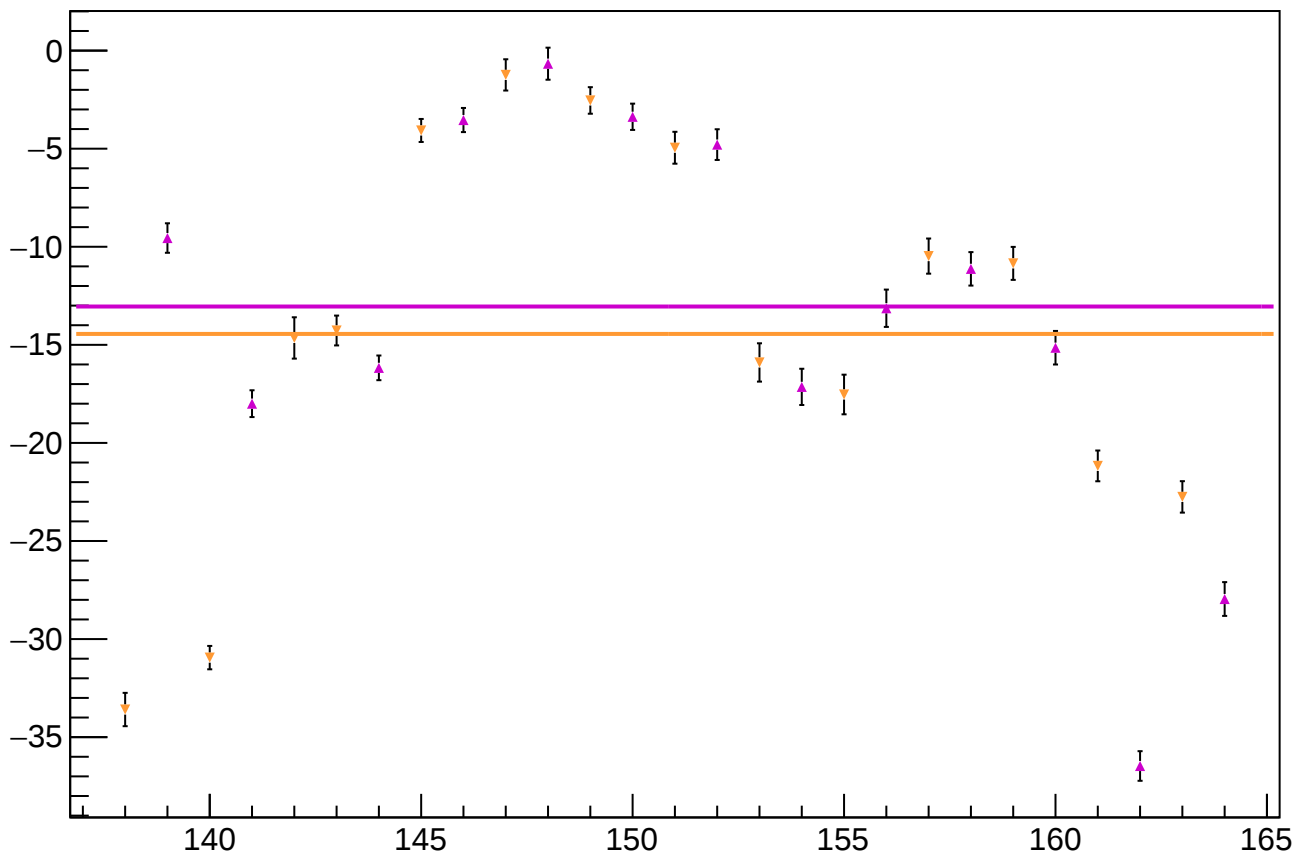
Left In:  $0.437 \pm 0.006$   $\chi^2/\text{NDF}$ : 1369.1/12

+ sign  $0.384 \pm 0.005$   $\chi^2/\text{NDF}$ : 1984.0/30

All:  $0.390 \pm 0.004$   $\chi^2/\text{NDF}$ : 4598.3/61

- sign  $0.396 \pm 0.005$   $\chi^2/\text{NDF}$ : 2611.7/30

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: -14.444+/-0.209  $\chi^2/\text{NDF}$ : 2538.1/13

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

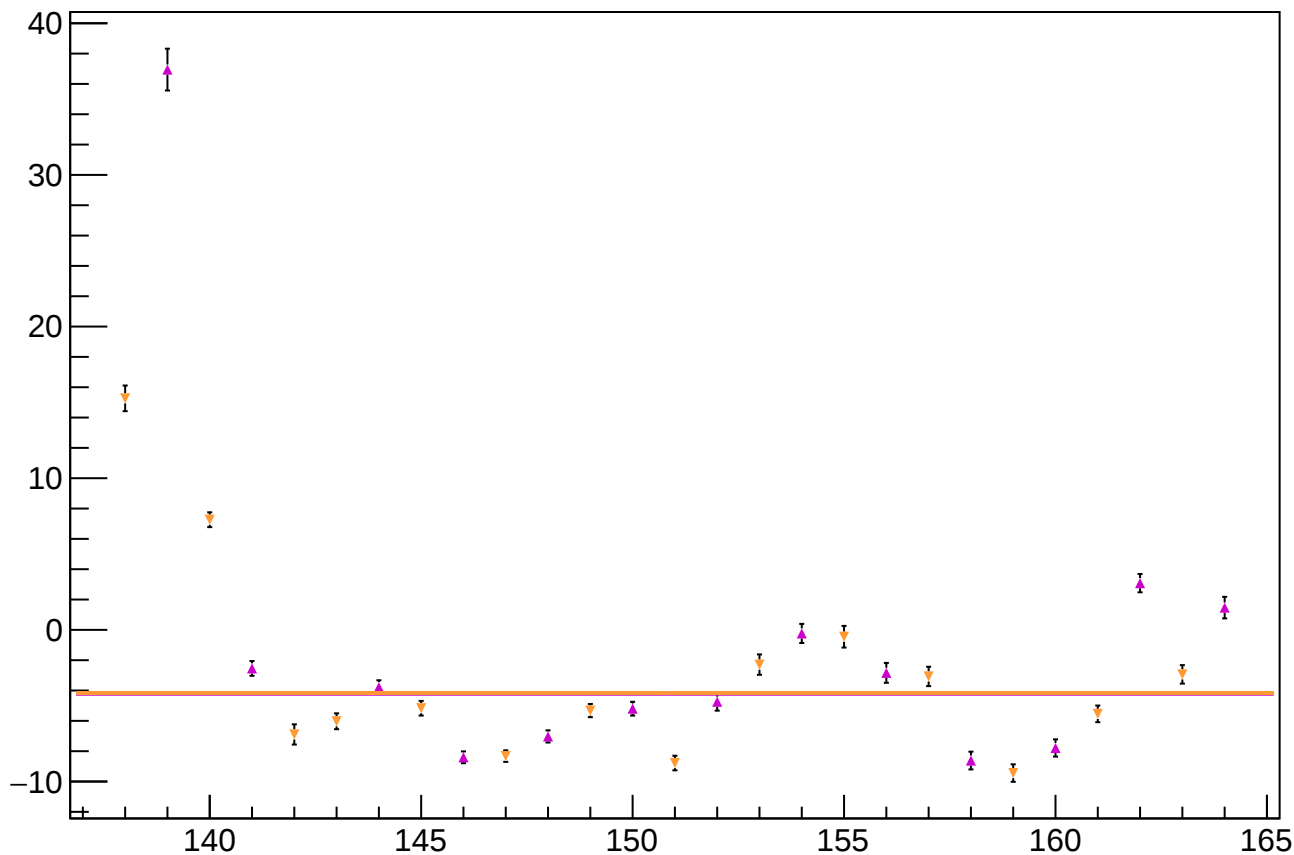
Left In: -13.046+/-0.211  $\chi^2/\text{NDF}$ : 2179.9/12

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

All: -13.750+/-0.148  $\chi^2/\text{NDF}$ : 4740.1/26

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

Left Out: -4.163+/-0.145  $\chi^2/\text{NDF}$ :1456.5/13

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

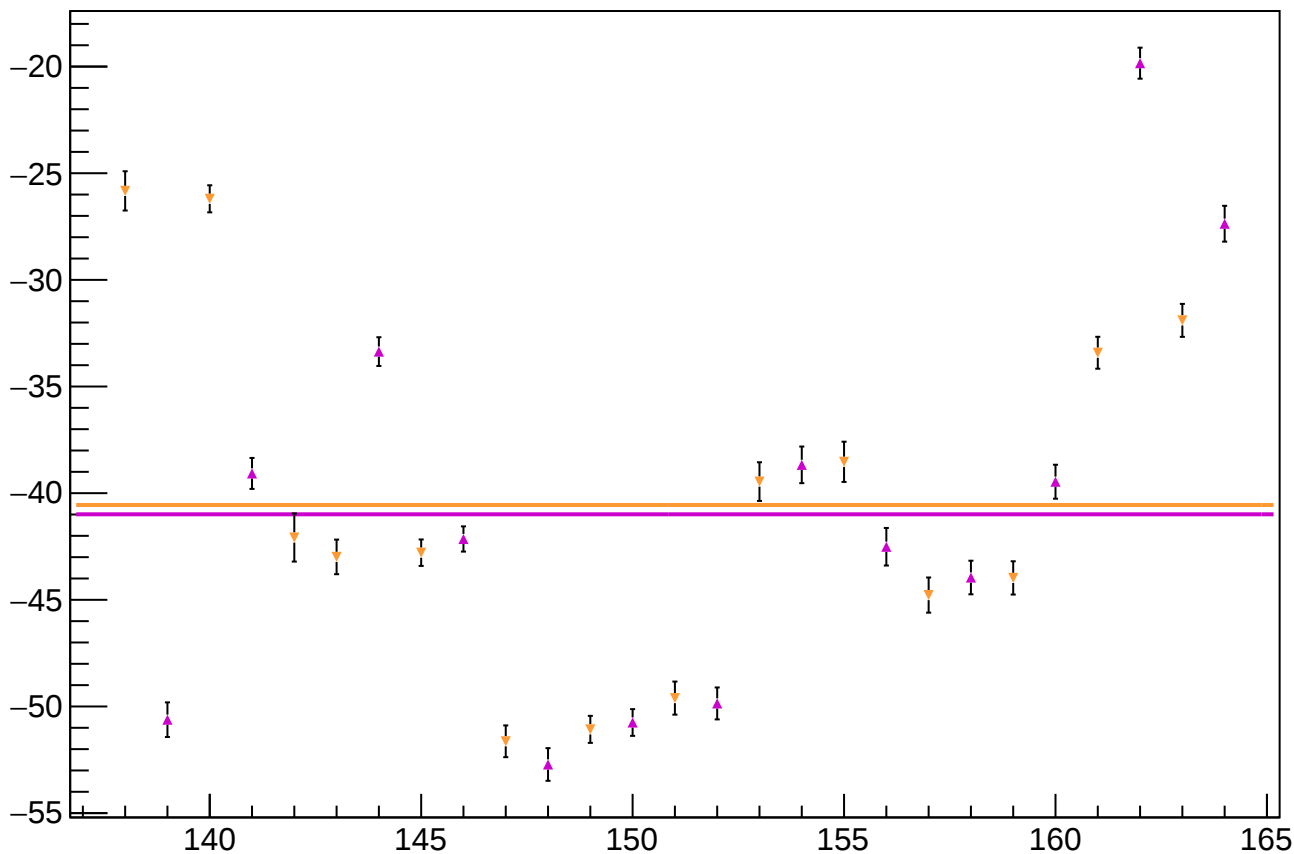
Left In: -4.211+/-0.148  $\chi^2/\text{NDF}$ :1424.2/12

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

All: -4.186+/-0.103  $\chi^2/\text{NDF}$ : 2880.7/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: -40.554+/-0.207  $\chi^2/\text{NDF}$ :1692.4/13

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

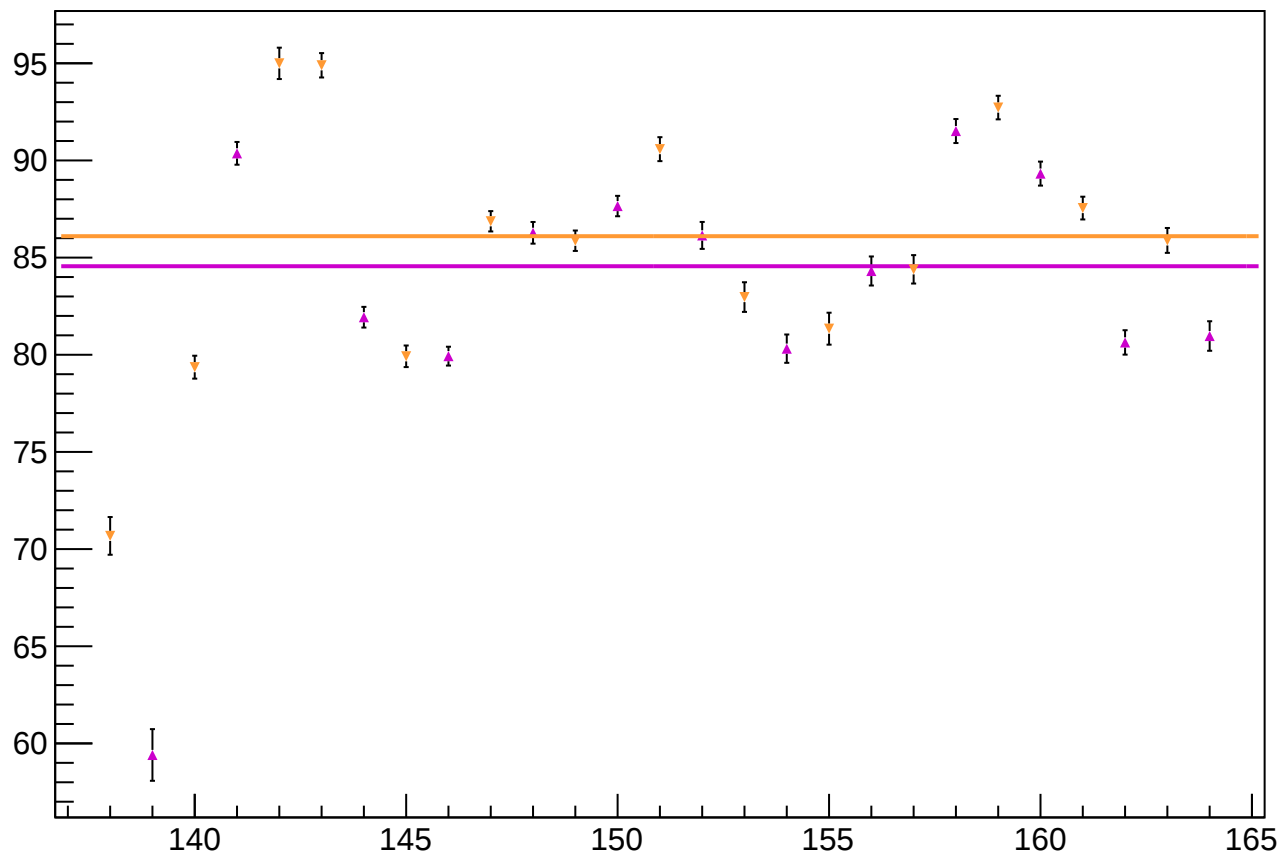
Left In: -40.991+/-0.206  $\chi^2/\text{NDF}$ :2034.5/12

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

All: -40.773+/-0.146  $\chi^2/\text{NDF}$ : 3729.1/26

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

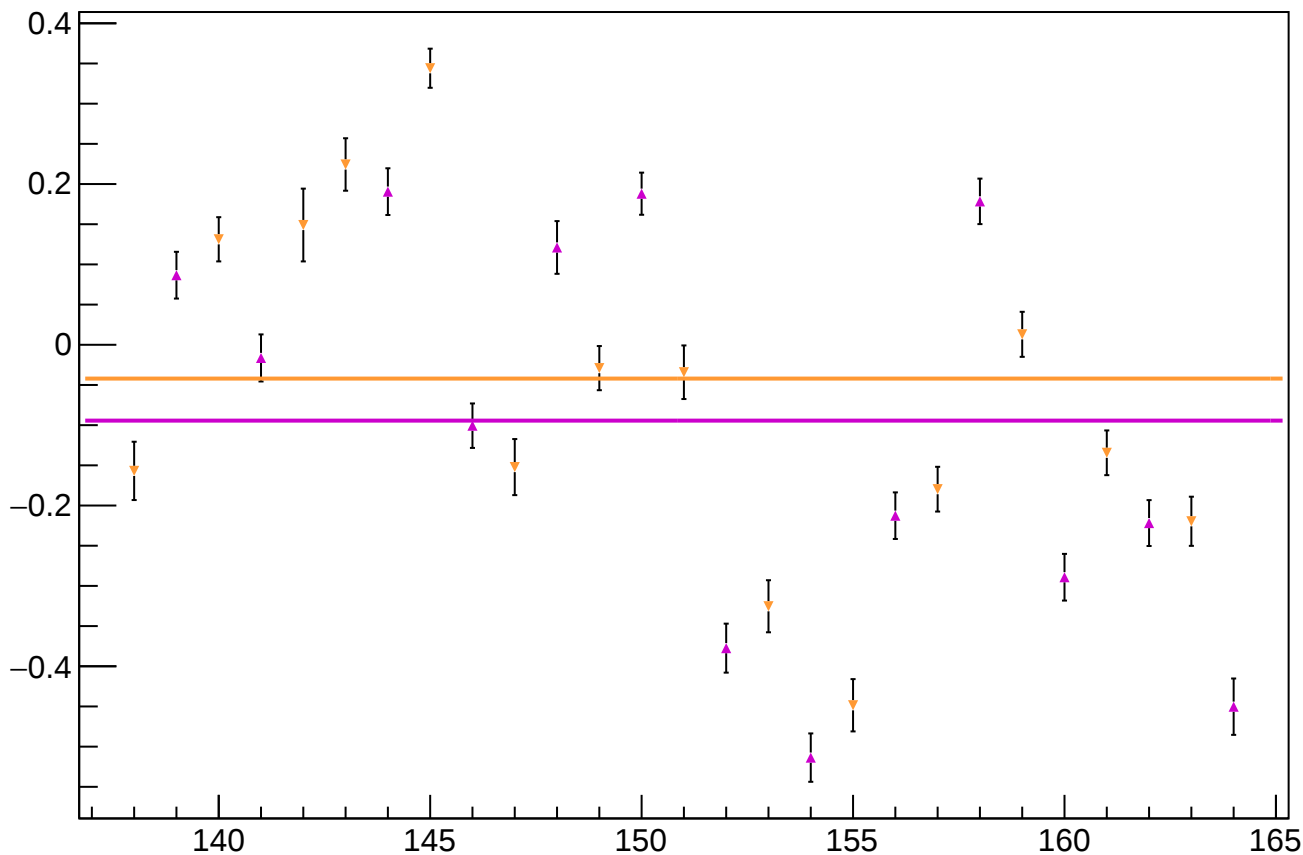
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 86.102+/-0.171  $\chi^2/\text{NDF}$ :1060.8/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 84.556+/-0.173  $\chi^2/\text{NDF}$ :902.7/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 85.340+/-0.122  $\chi^2/\text{NDF}$ : 2003.9/26  
 - 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.042+/-0.008  $\chi^2/\text{NDF}$ : 701.5/13

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

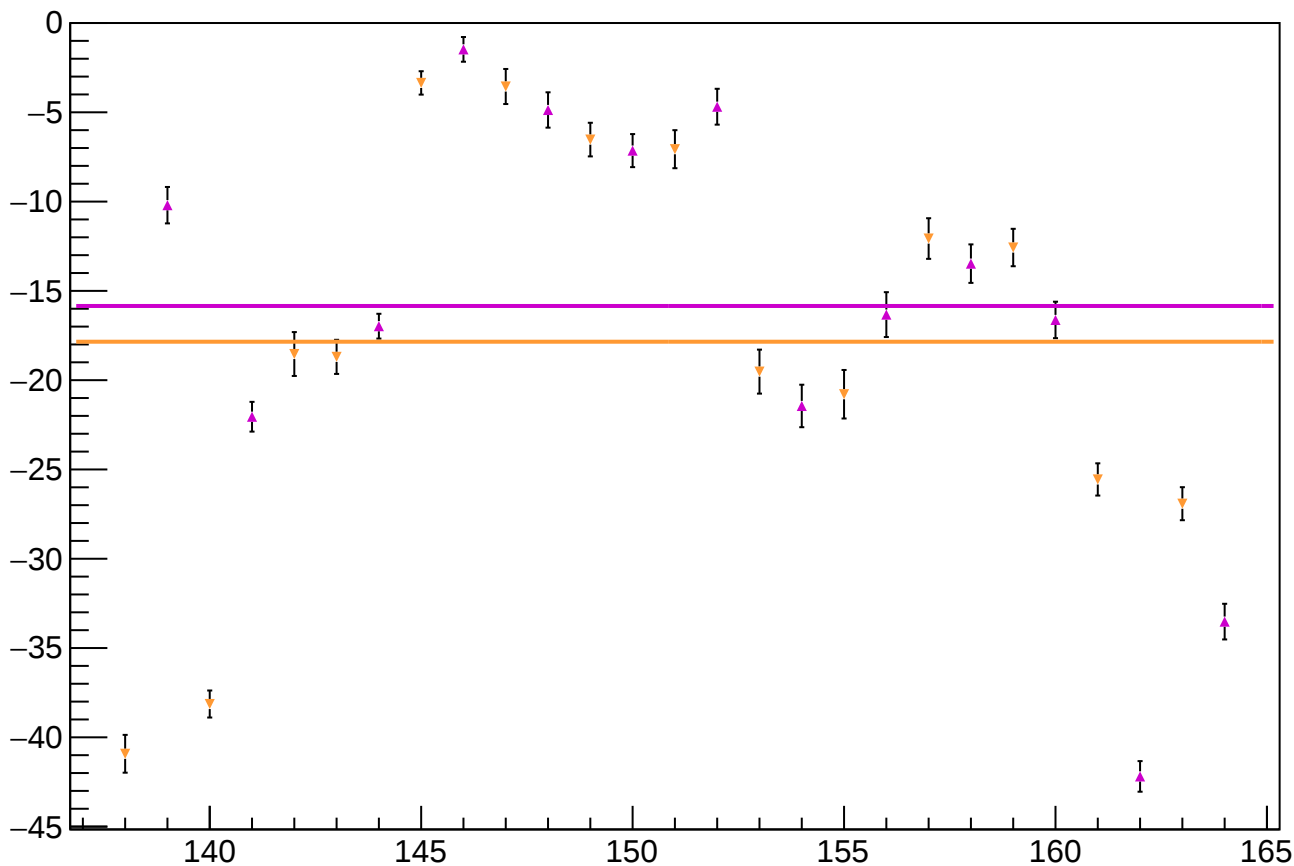
Left In: -0.094+/-0.008  $\chi^2/\text{NDF}$ : 859.0/12

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

All: -0.068+/-0.006  $\chi^2/\text{NDF}$ : 1581.1/26

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

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out:  $-17.847 \pm 0.258$   $\chi^2/\text{NDF}$ : 2370.4/13

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

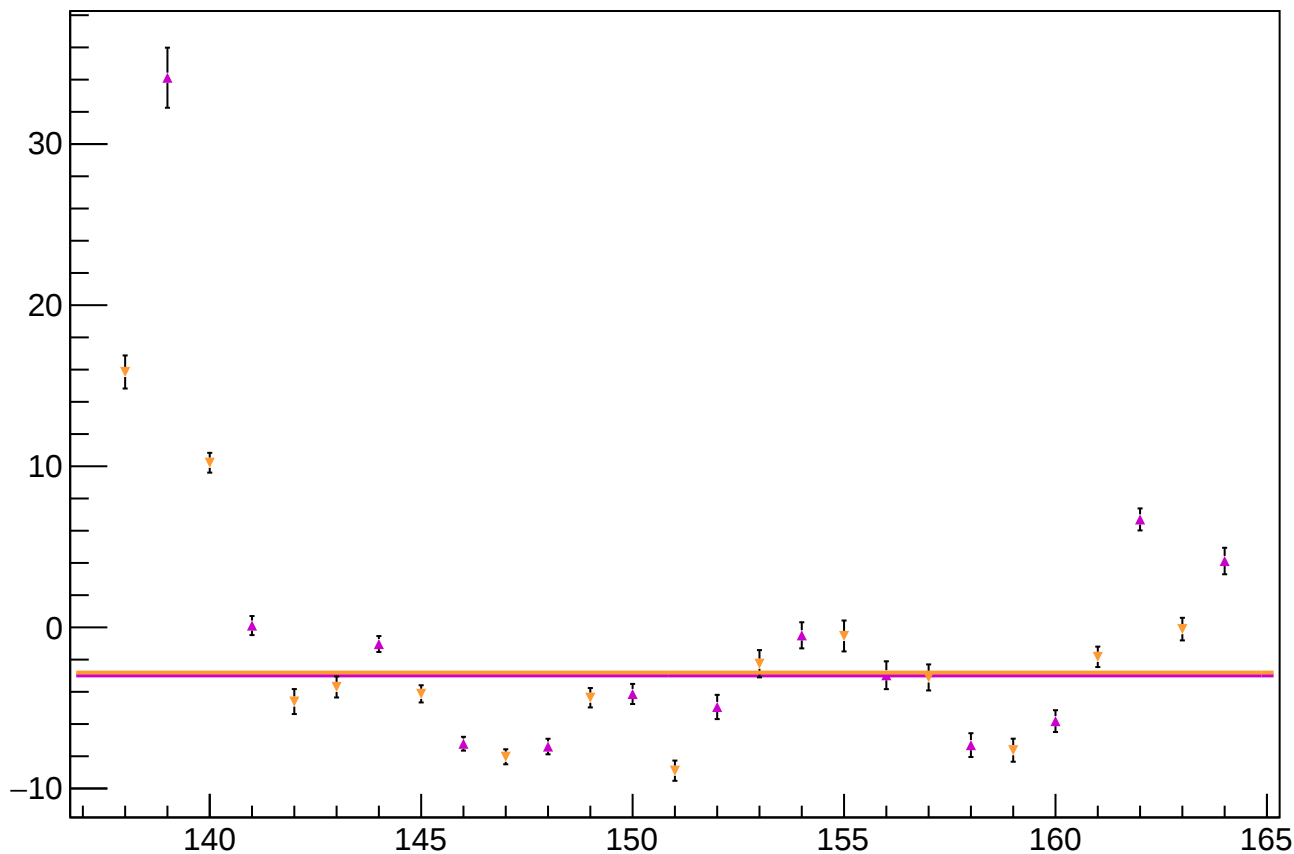
Left In:  $-15.845 \pm 0.256$   $\chi^2/\text{NDF}$ : 2139.9/12

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

All:  $-16.839 \pm 0.182$   $\chi^2/\text{NDF}$ : 4540.6/26

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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: -2.807+/-0.178  $\chi^2/\text{NDF}$ : 1087.8/13

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

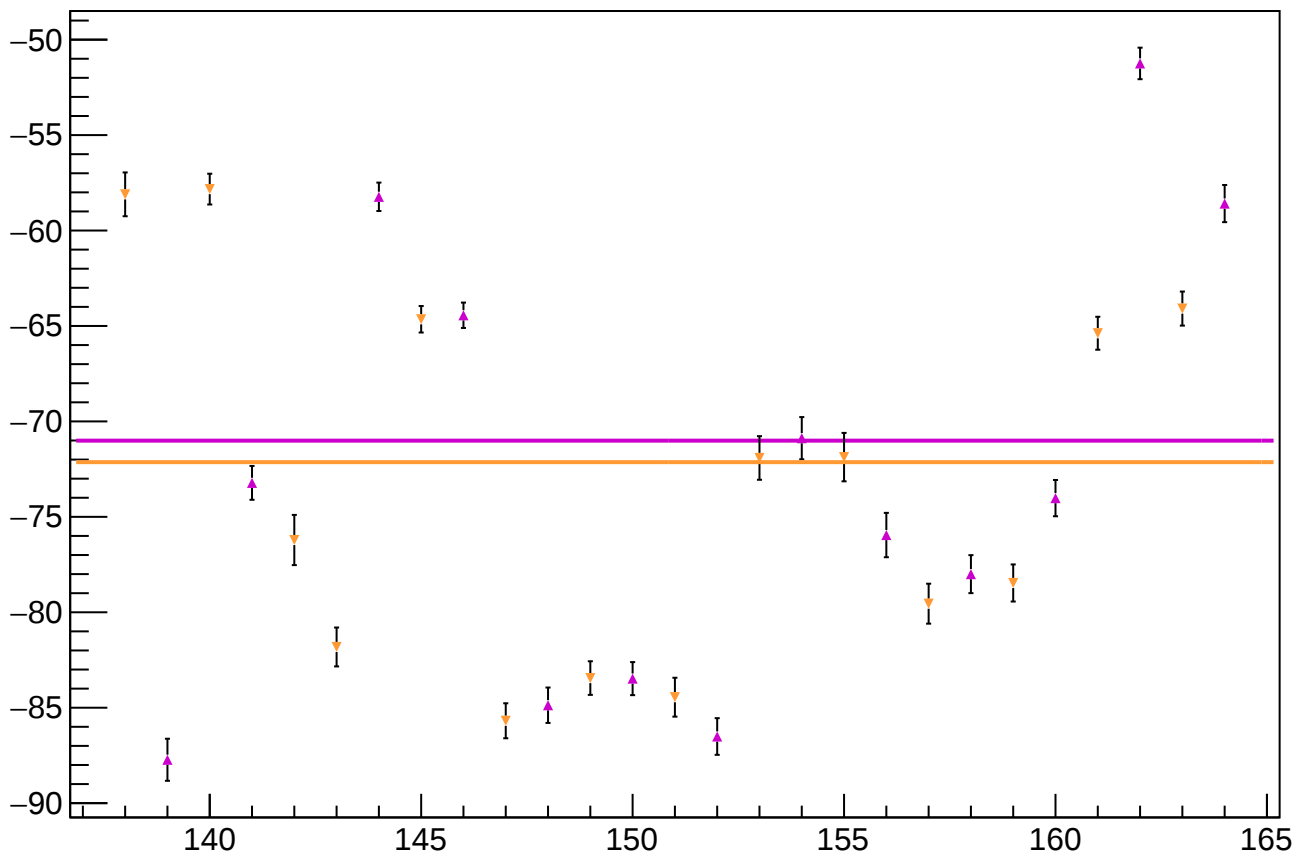
Left In: -2.981+/-0.177  $\chi^2/\text{NDF}$ : 966.8/12

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

All: -2.894+/-0.126  $\chi^2/\text{NDF}$ : 2055.1/26

- 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: -72.135+/-0.256  $\chi^2/\text{NDF}$ :1445.7/13

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

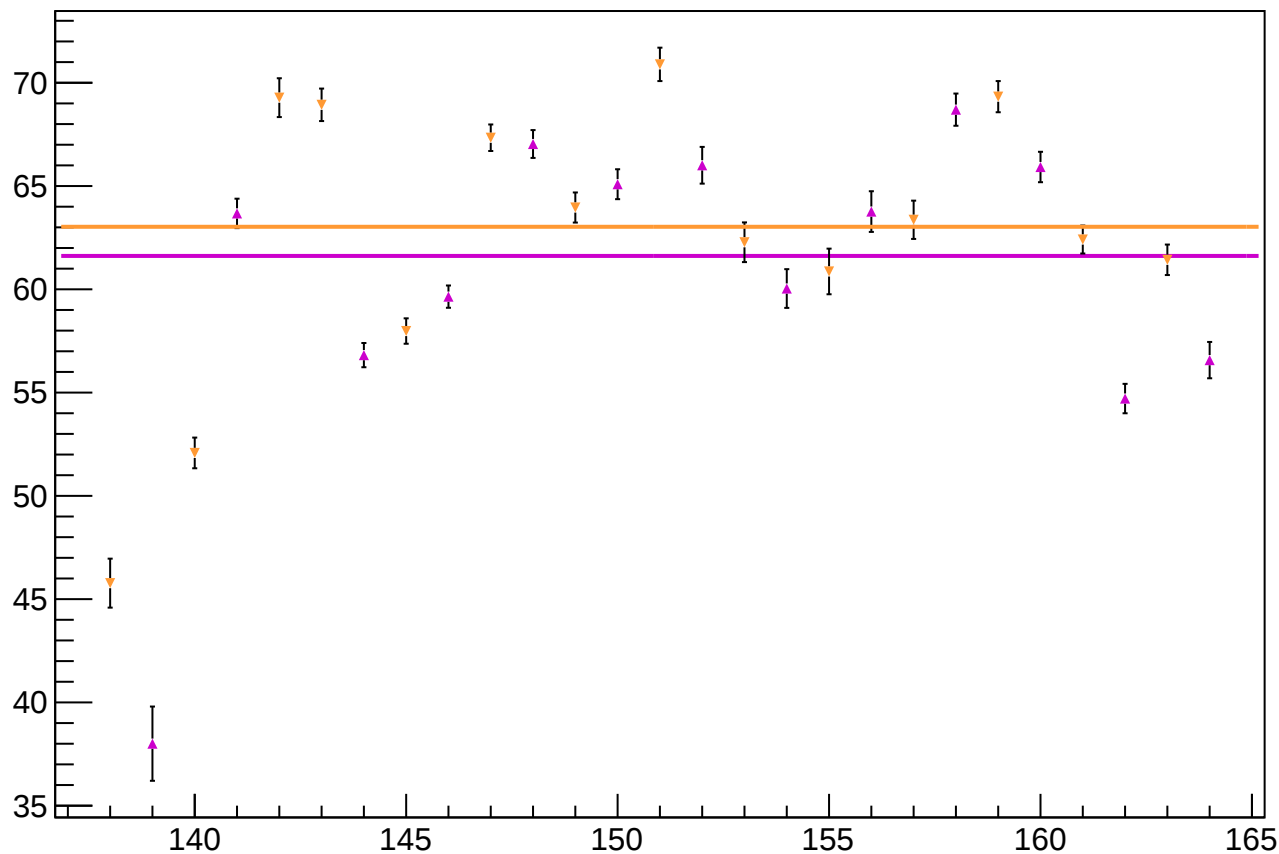
Left In: -71.008+/-0.250  $\chi^2/\text{NDF}$ :2133.7/12

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

All: -71.560+/-0.179  $\chi^2/\text{NDF}$ : 3589.3/26

- 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: 63.028+/-0.210  $\chi^2/\text{NDF}$ : 818.0/13

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

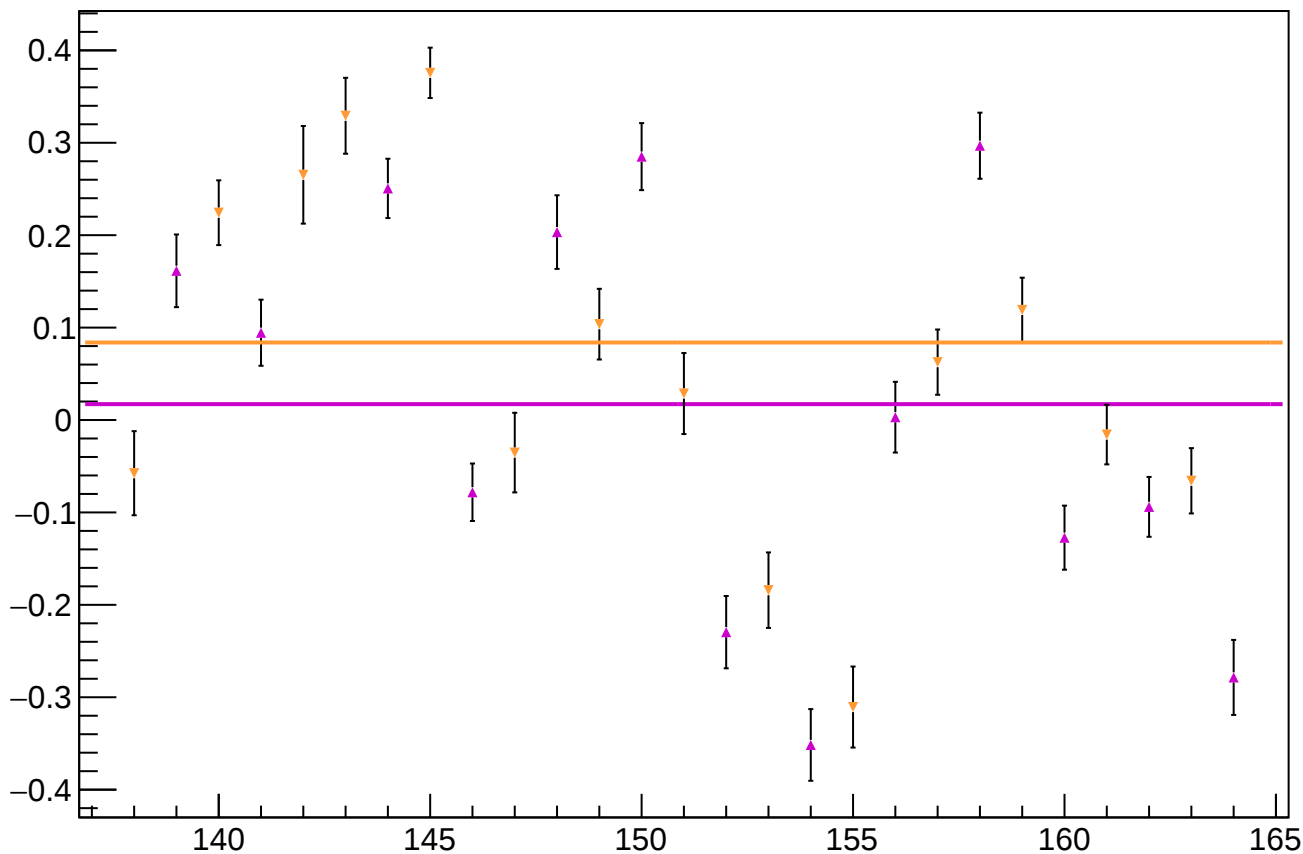
Left In: 61.616+/-0.209  $\chi^2/\text{NDF}$ : 624.5/12

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

All: 62.317+/-0.148  $\chi^2/\text{NDF}$ : 1465.2/26

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

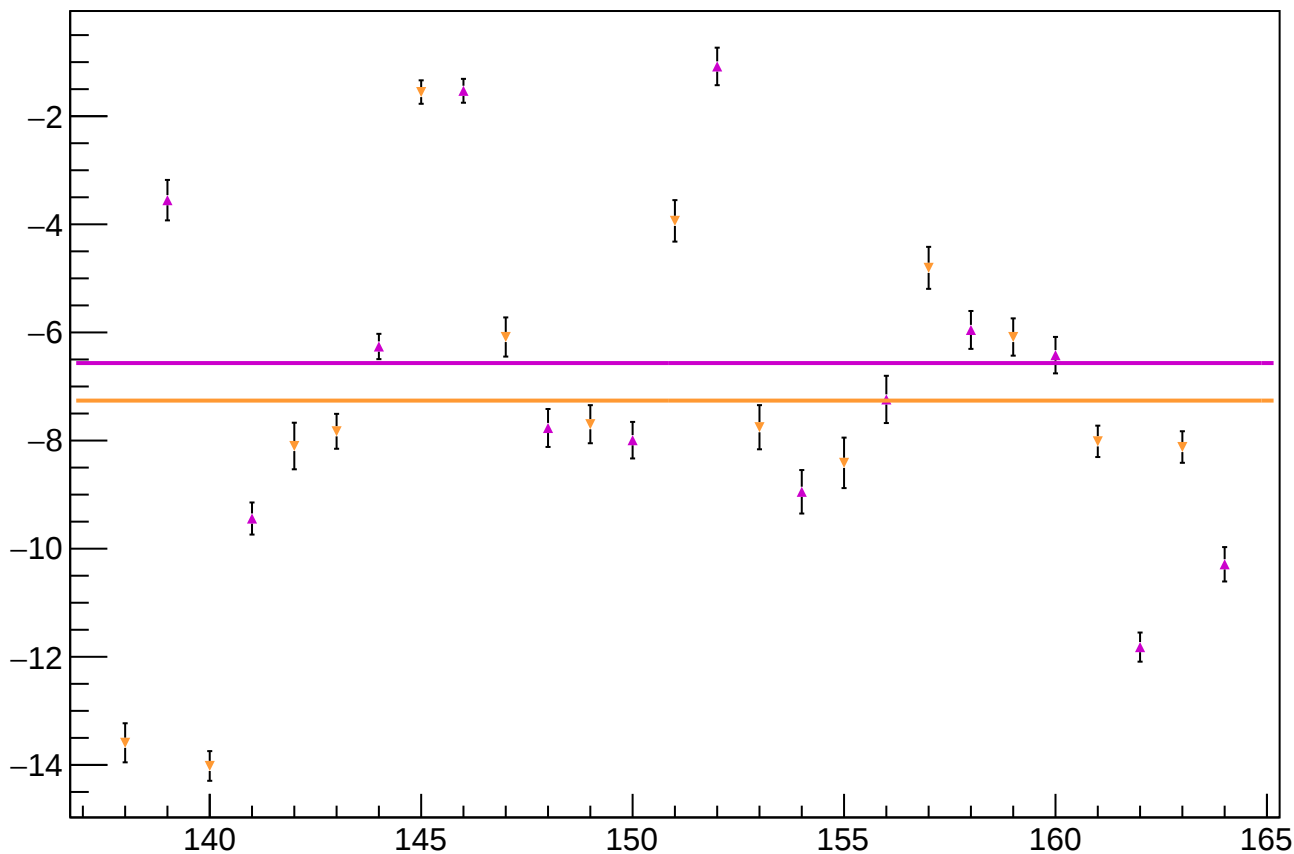
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.084 $\pm$ 0.010  $\chi^2$ /NDF:350.3/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.017 $\pm$ 0.010  $\chi^2$ /NDF:430.5/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.050 $\pm$ 0.007  $\chi^2$ /NDF: 802.9/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

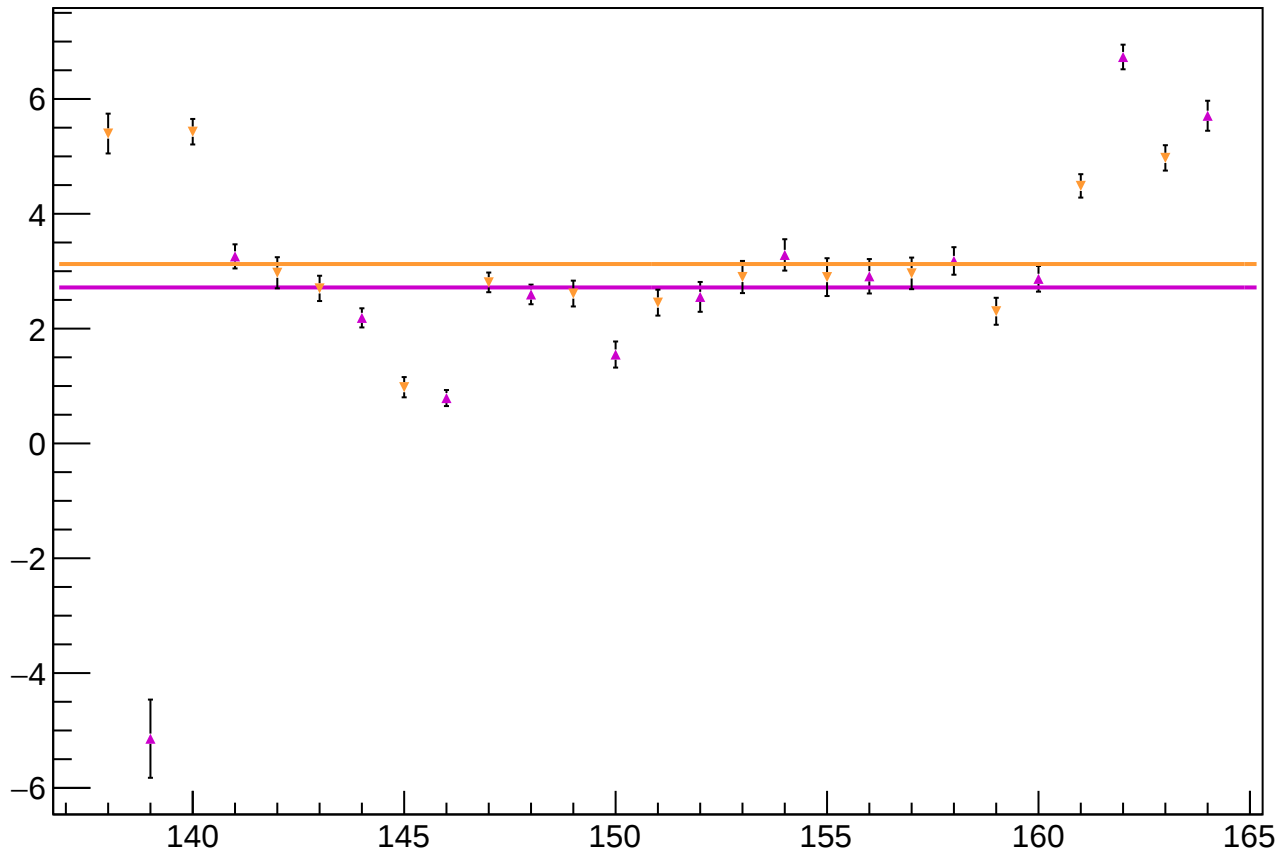
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.261+/-0.088  $\chi^2/\text{NDF}$ : 1772.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.567+/-0.086  $\chi^2/\text{NDF}$ : 1517.3/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -6.906+/-0.062  $\chi^2/\text{NDF}$ : 3321.4/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

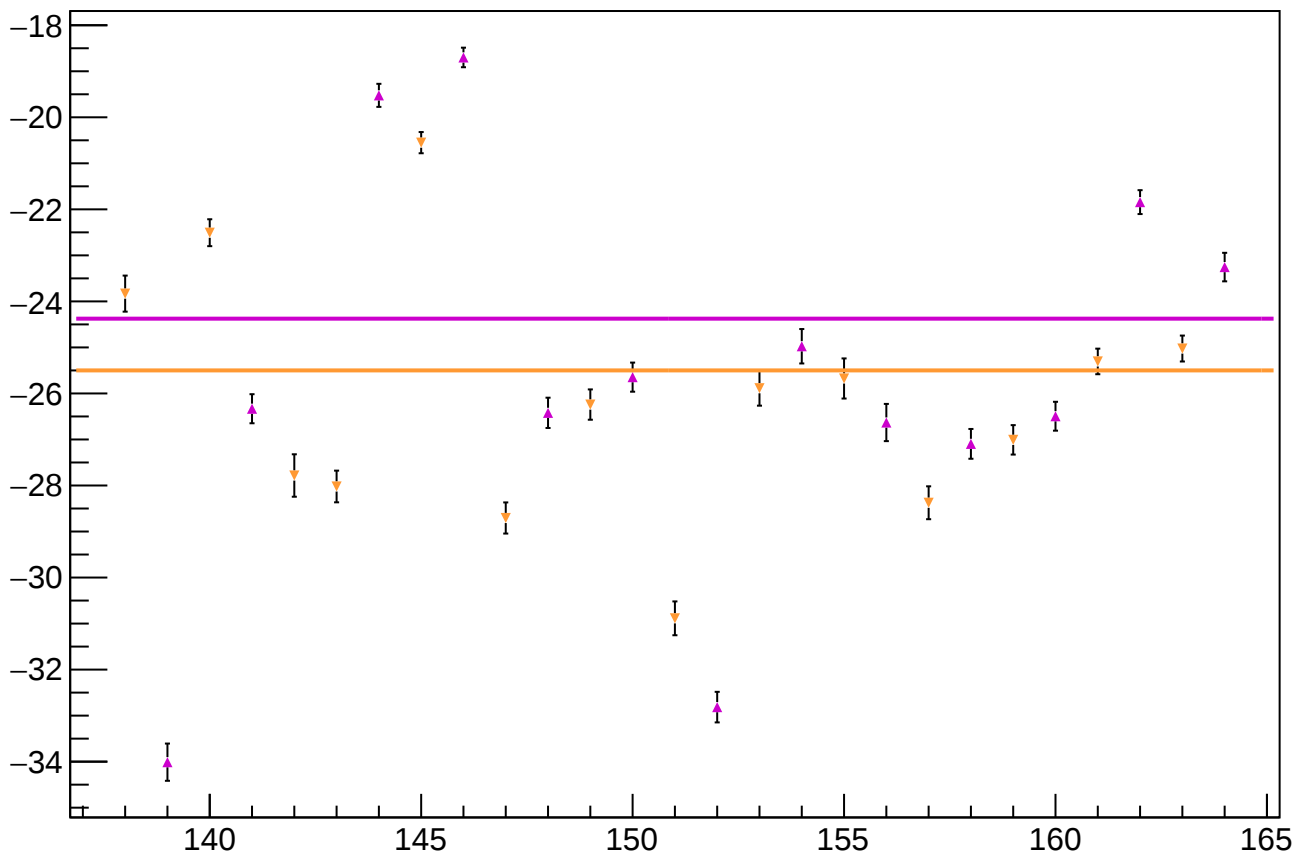
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.125+/-0.061  $\chi^2/\text{NDF}$ : 448.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.717+/-0.060  $\chi^2/\text{NDF}$ : 857.8/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 2.916+/-0.043  $\chi^2/\text{NDF}$ : 1328.8/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: -25.499+/-0.087  $\chi^2/\text{NDF}$ :1063.8/13

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

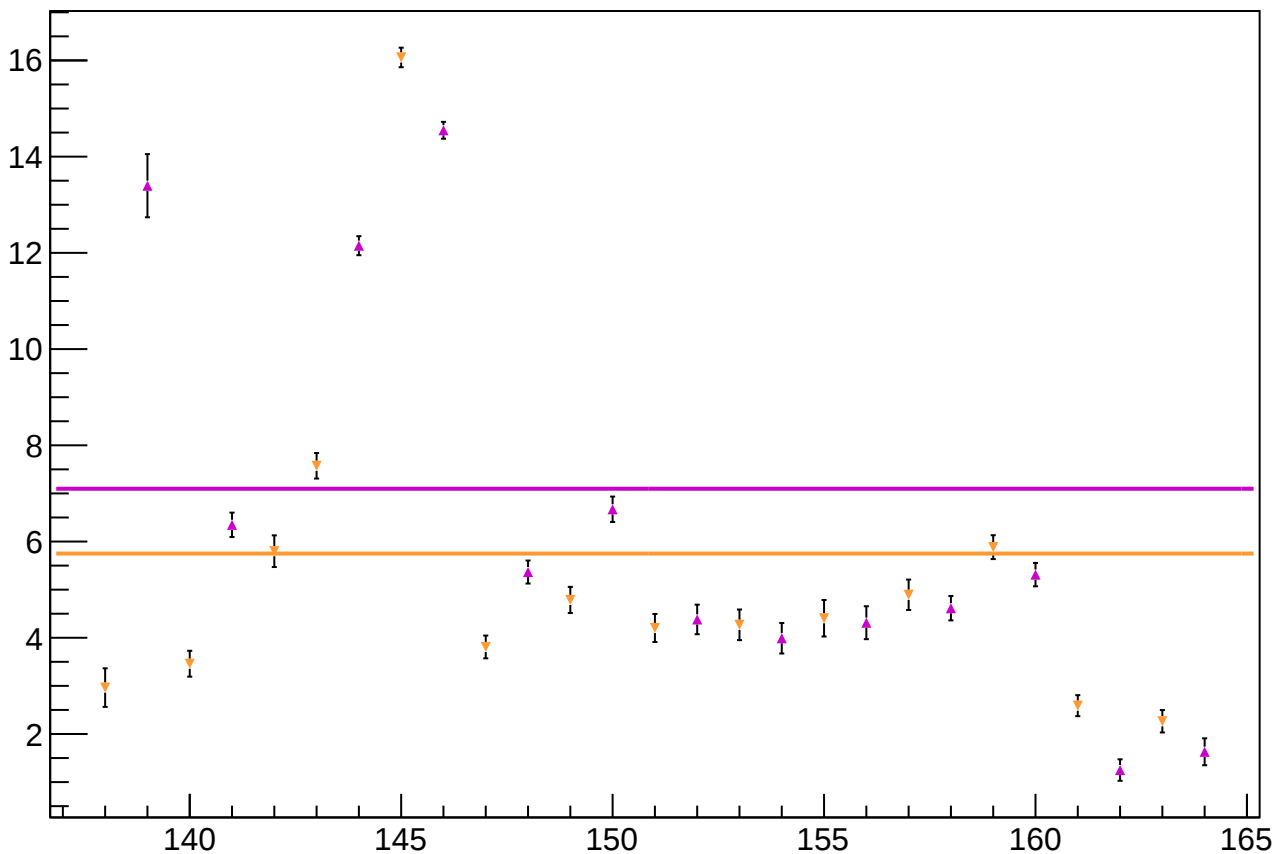
Left In: -24.375+/-0.084  $\chi^2/\text{NDF}$ :2653.1/12

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

All: -24.917+/-0.061  $\chi^2/\text{NDF}$ : 3802.6/26

- 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: 5.750+/-0.072  $\chi^2/\text{NDF}$ : 3327.2/13

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

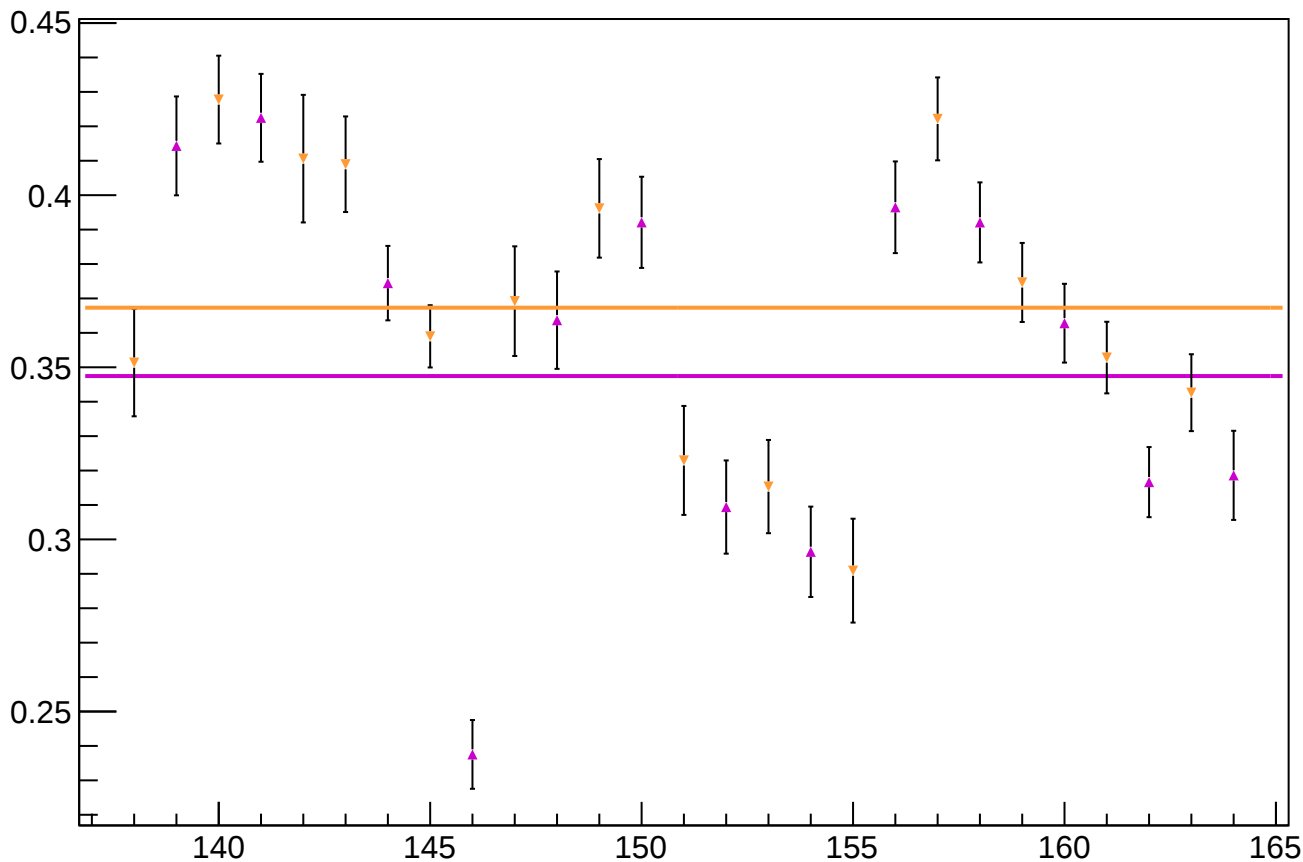
Left In: 7.097+/-0.070  $\chi^2/\text{NDF}$ : 4081.1/12

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

All: 6.439+/-0.050  $\chi^2/\text{NDF}$ : 7587.9/26

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

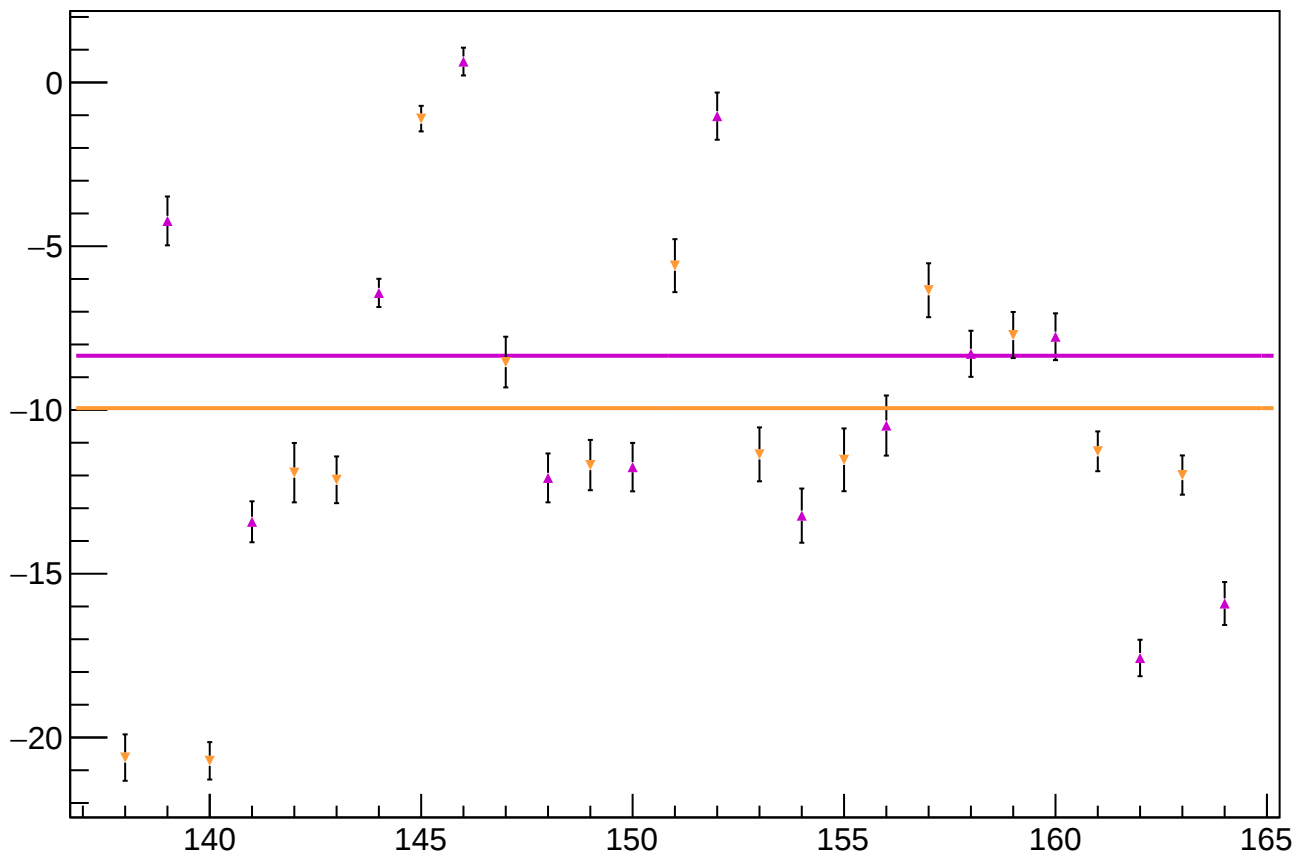
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.367 $\pm$ 0.003  $\chi^2$ /NDF:119.1/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.347 $\pm$ 0.003  $\chi^2$ /NDF:263.5/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.357 $\pm$ 0.002  $\chi^2$ /NDF: 399.6/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

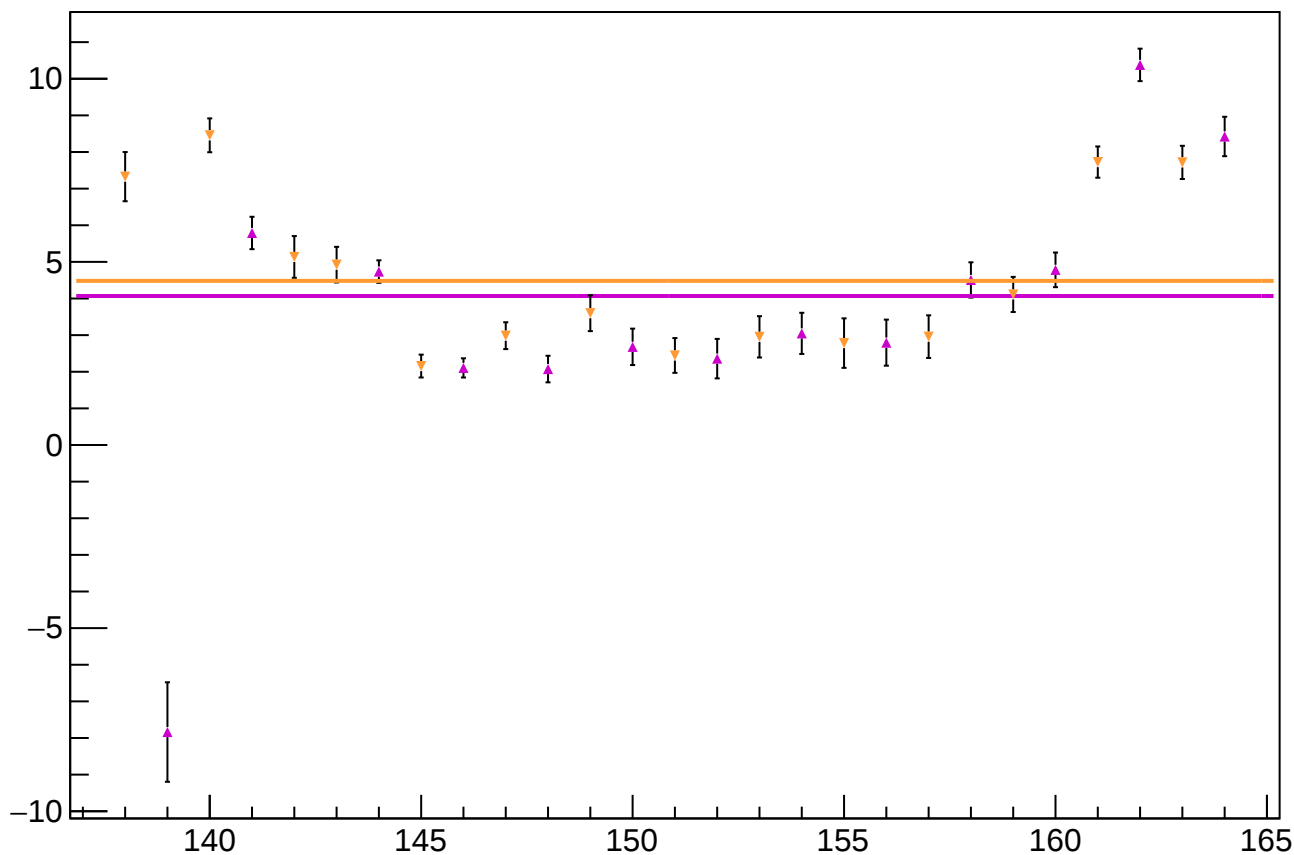
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.944+/-0.179  $\chi^2/\text{NDF}$ : 1198.1/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.344+/-0.174  $\chi^2/\text{NDF}$ : 1162.5/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -9.122+/-0.125  $\chi^2/\text{NDF}$ : 2401.7/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

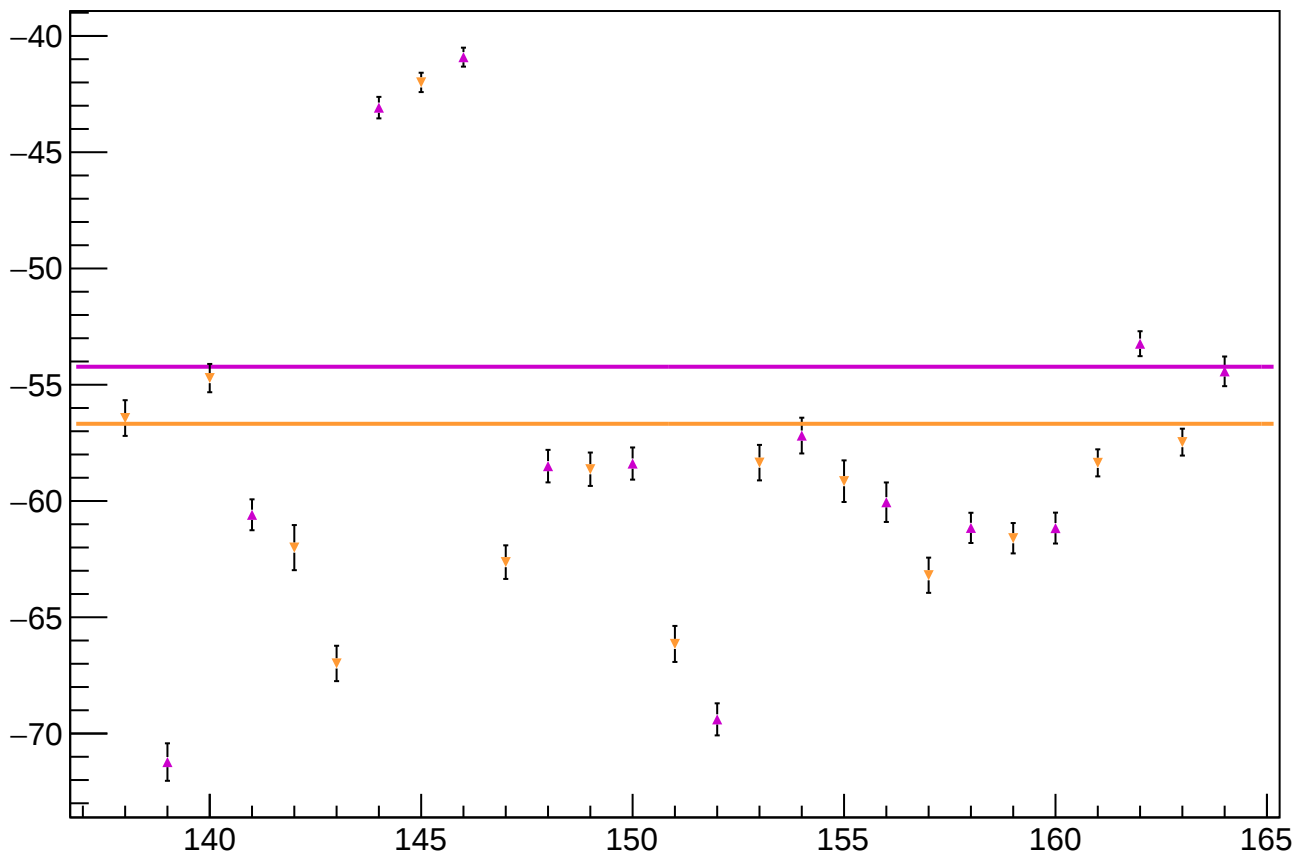
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $4.482 \pm 0.125$   $\chi^2/\text{NDF}: 317.8/13$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $4.068 \pm 0.120$   $\chi^2/\text{NDF}: 479.7/12$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $4.266 \pm 0.087$   $\chi^2/\text{NDF}: 803.1/26$   
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



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

Left Out: -56.679+/-0.178  $\chi^2/\text{NDF}$ :1848.4/13

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

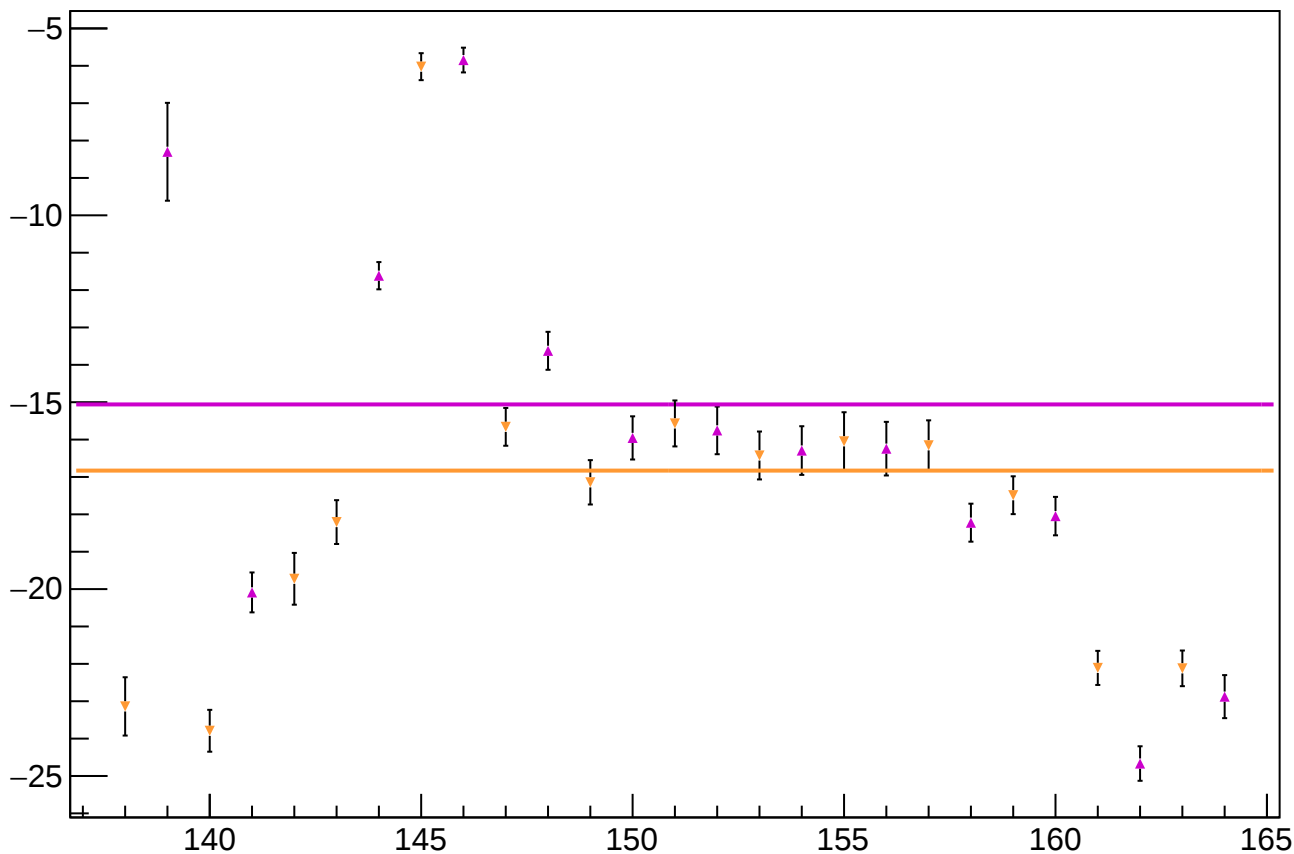
Left In: -54.226+/-0.171  $\chi^2/\text{NDF}$ :3028.6/12

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

All: -55.399+/-0.123  $\chi^2/\text{NDF}$ : 4976.0/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: -16.830 $\pm$ 0.147  $\chi^2$ /NDF:1410.8/13

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

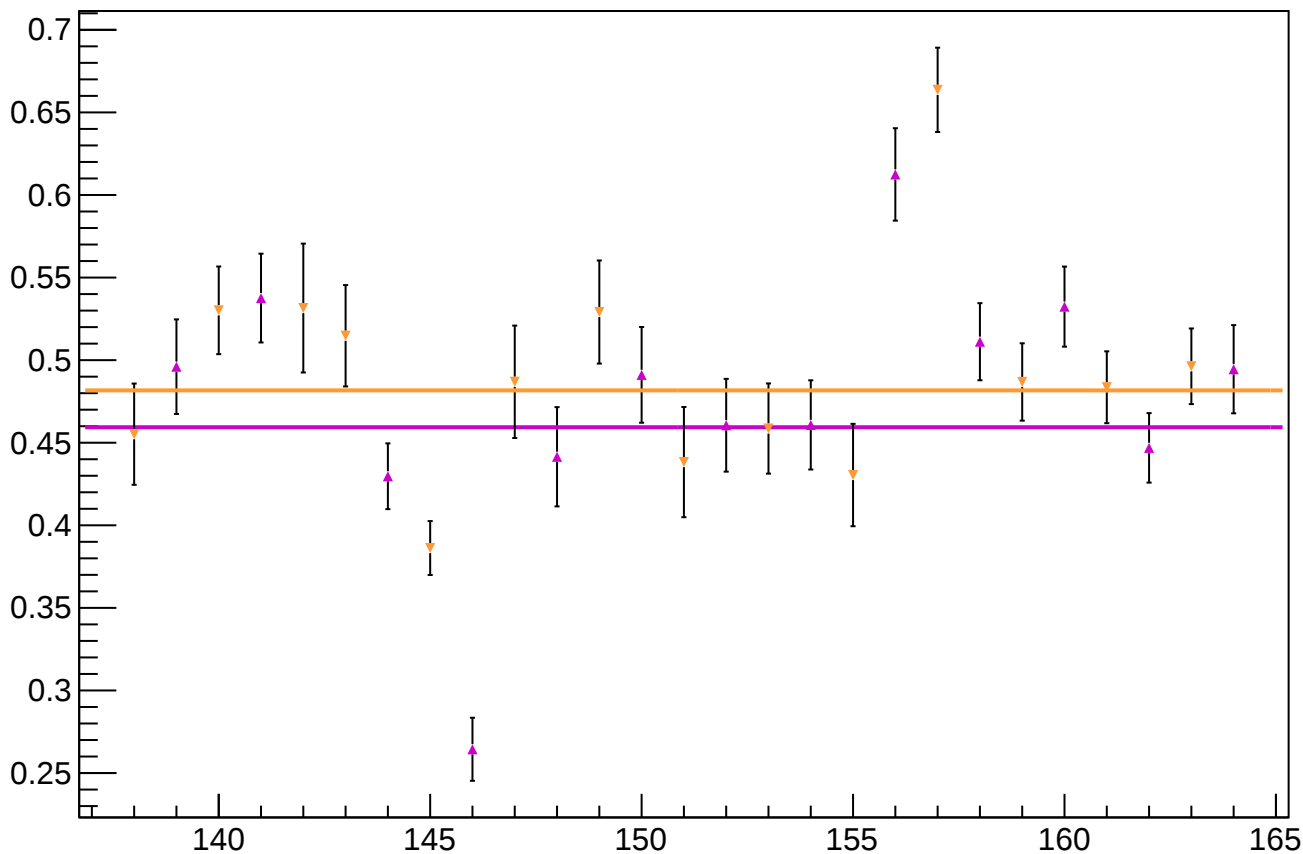
Left In: -15.059 $\pm$ 0.142  $\chi^2$ /NDF:1686.2/12

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

All: -15.913 $\pm$ 0.102  $\chi^2$ /NDF: 3172.1/26

- 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: 0.482 $\pm$ 0.007  $\chi^2$ /NDF:99.8/13

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

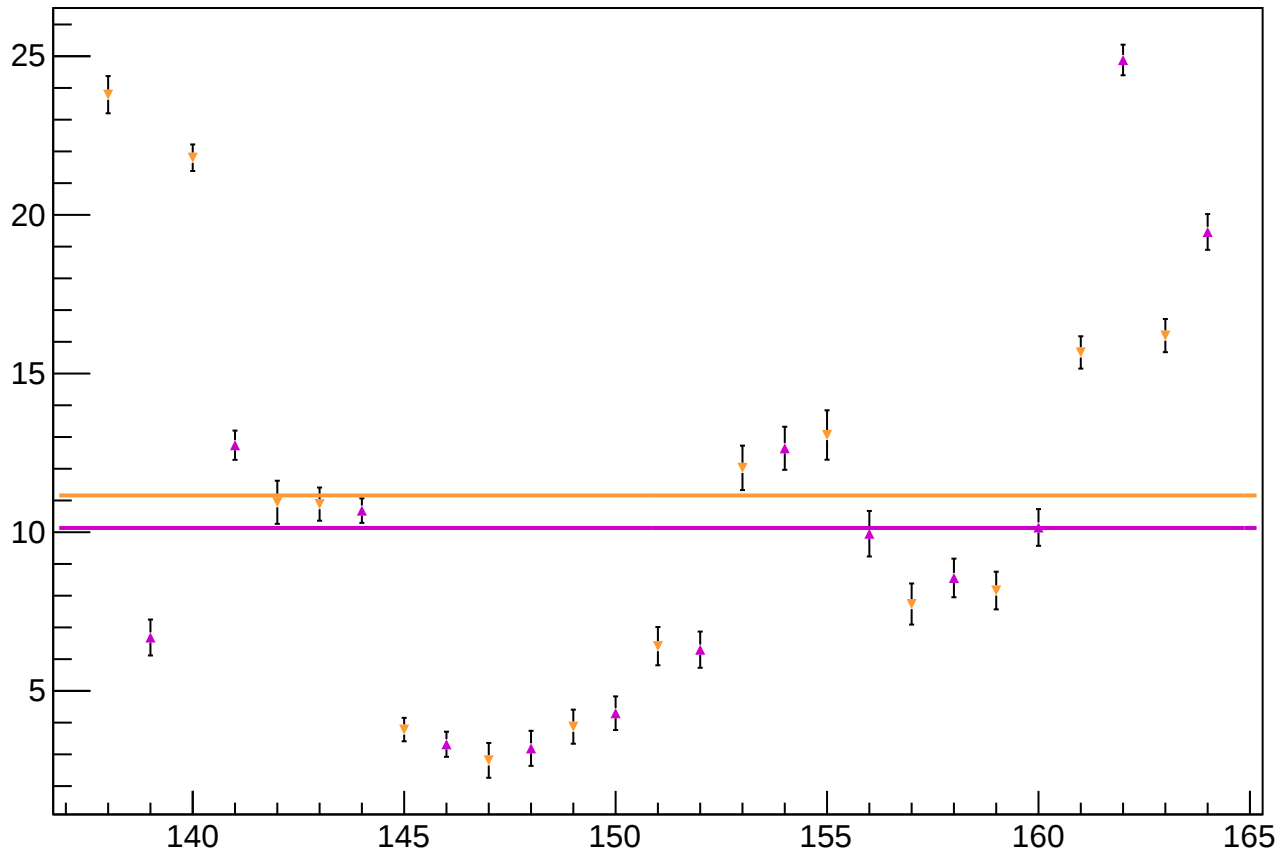
Left In: 0.459 $\pm$ 0.007  $\chi^2$ /NDF:164.3/12

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

All: 0.470 $\pm$ 0.005  $\chi^2$ /NDF: 269.3/26

- 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: 11.160+/-0.145  $\chi^2/\text{NDF}$ :2219.5/13

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

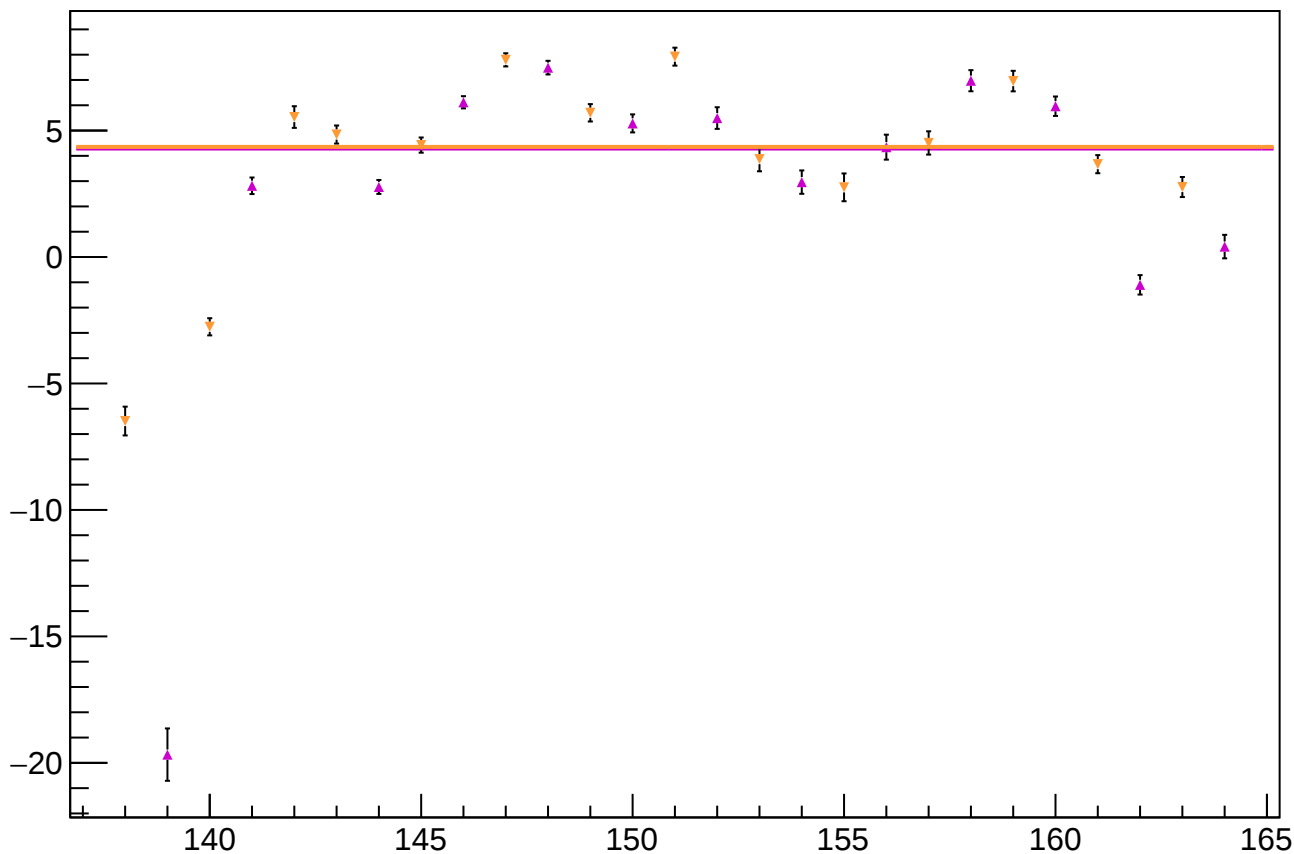
Left In: 10.134+/-0.144  $\chi^2/\text{NDF}$ :1921.8/12

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

All: 10.645+/-0.102  $\chi^2/\text{NDF}$ : 4166.6/26

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

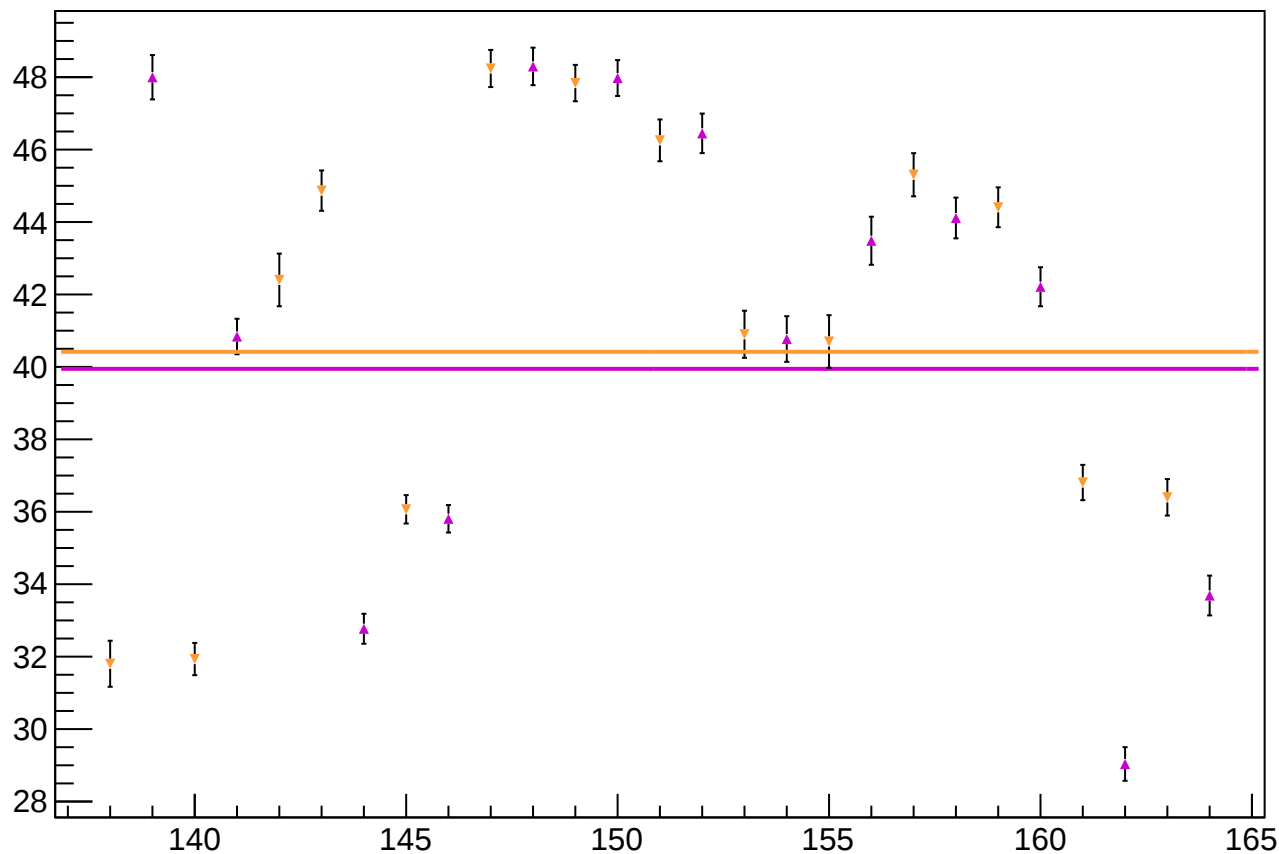
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.354 $\pm$ 0.100  $\chi^2$ /NDF:1172.0/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.289 $\pm$ 0.100  $\chi^2$ /NDF:1135.0/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 4.321 $\pm$ 0.071  $\chi^2$ /NDF: 2307.3/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 40.417 $\pm$ 0.144  $\chi^2$ /NDF:1533.3/13

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

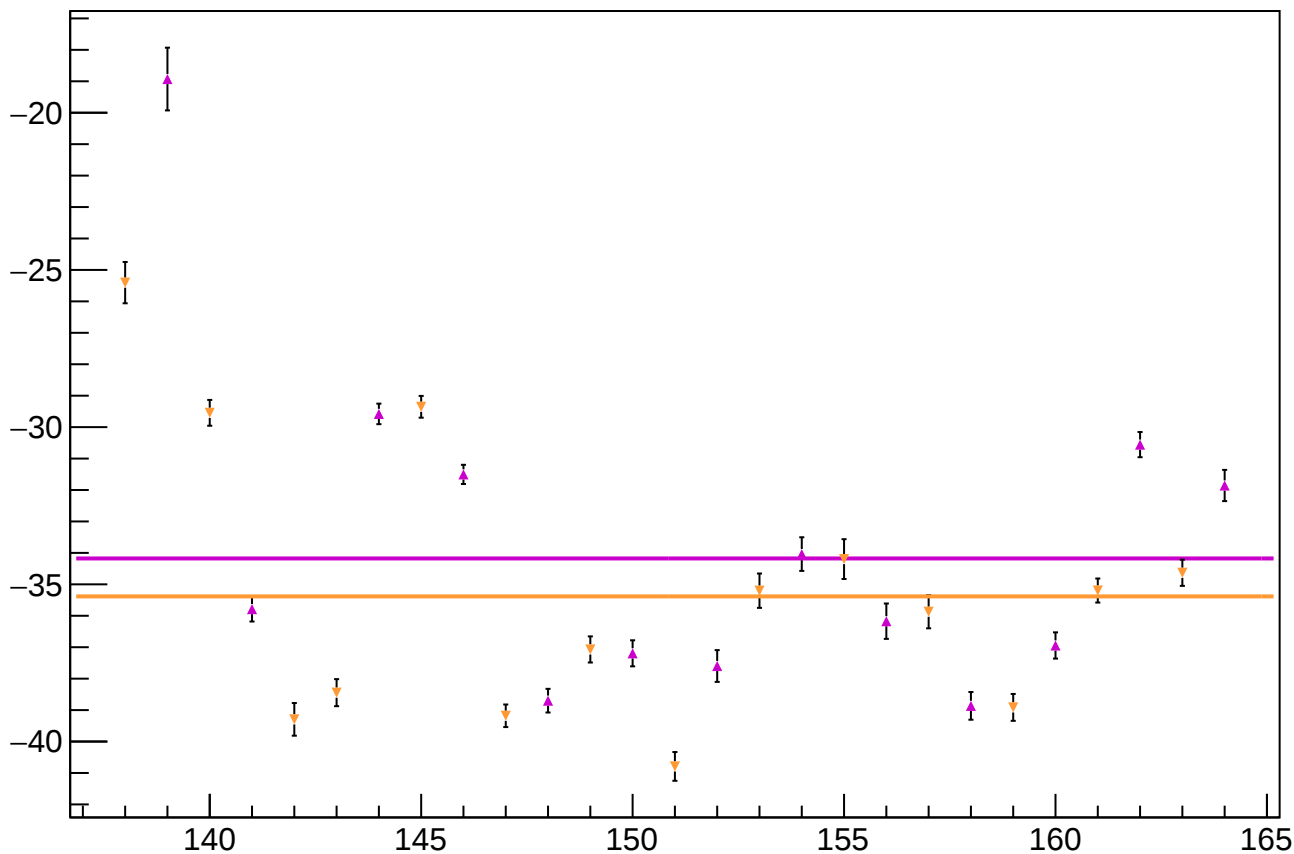
Left In: 39.946 $\pm$ 0.141  $\chi^2$ /NDF:2044.7/12

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

All: 40.178 $\pm$ 0.101  $\chi^2$ /NDF: 3583.5/26

- 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: -35.384+/-0.118  $\chi^2/\text{NDF}$ : 1187.4/13

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

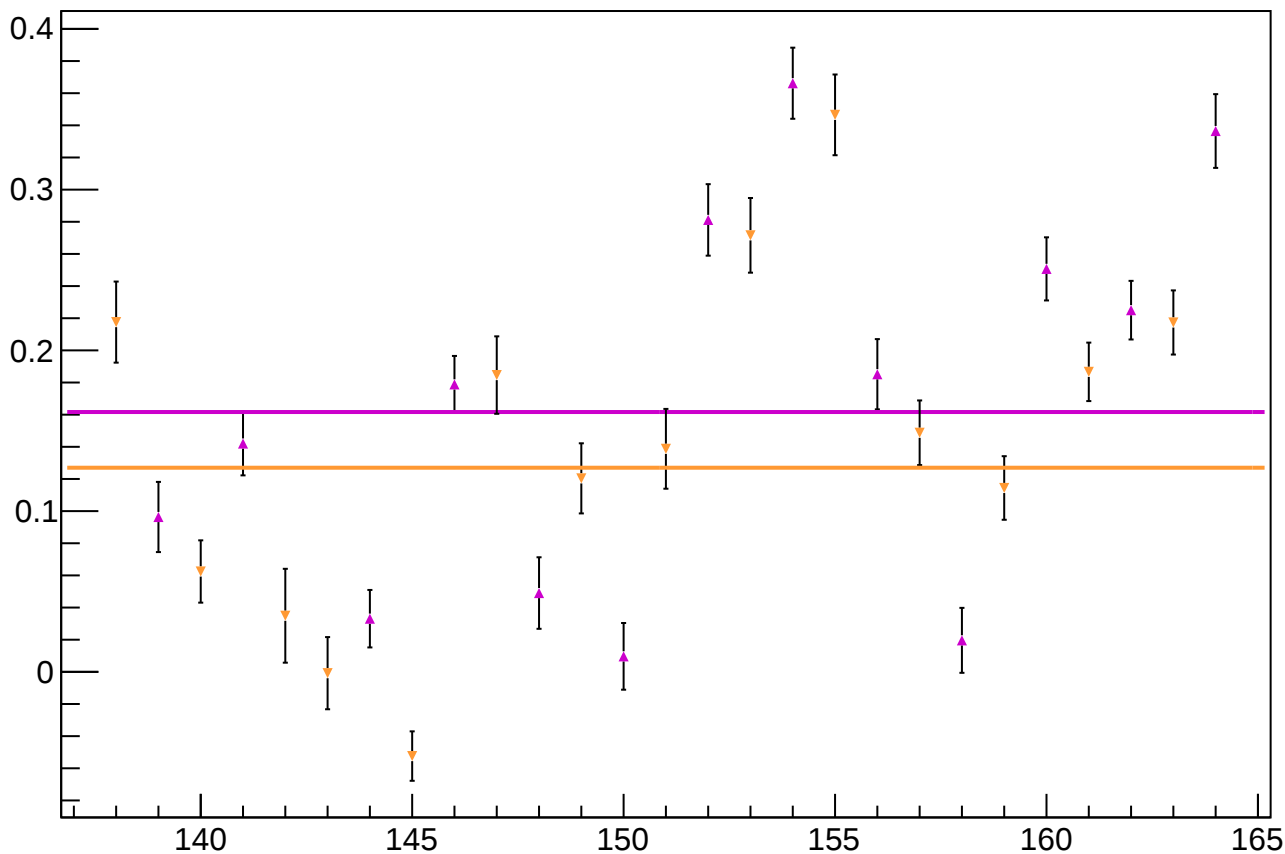
Left In: -34.177+/-0.118  $\chi^2/\text{NDF}$ : 1042.2/12

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

All: -34.778+/-0.083  $\chi^2/\text{NDF}$ : 2281.8/26

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

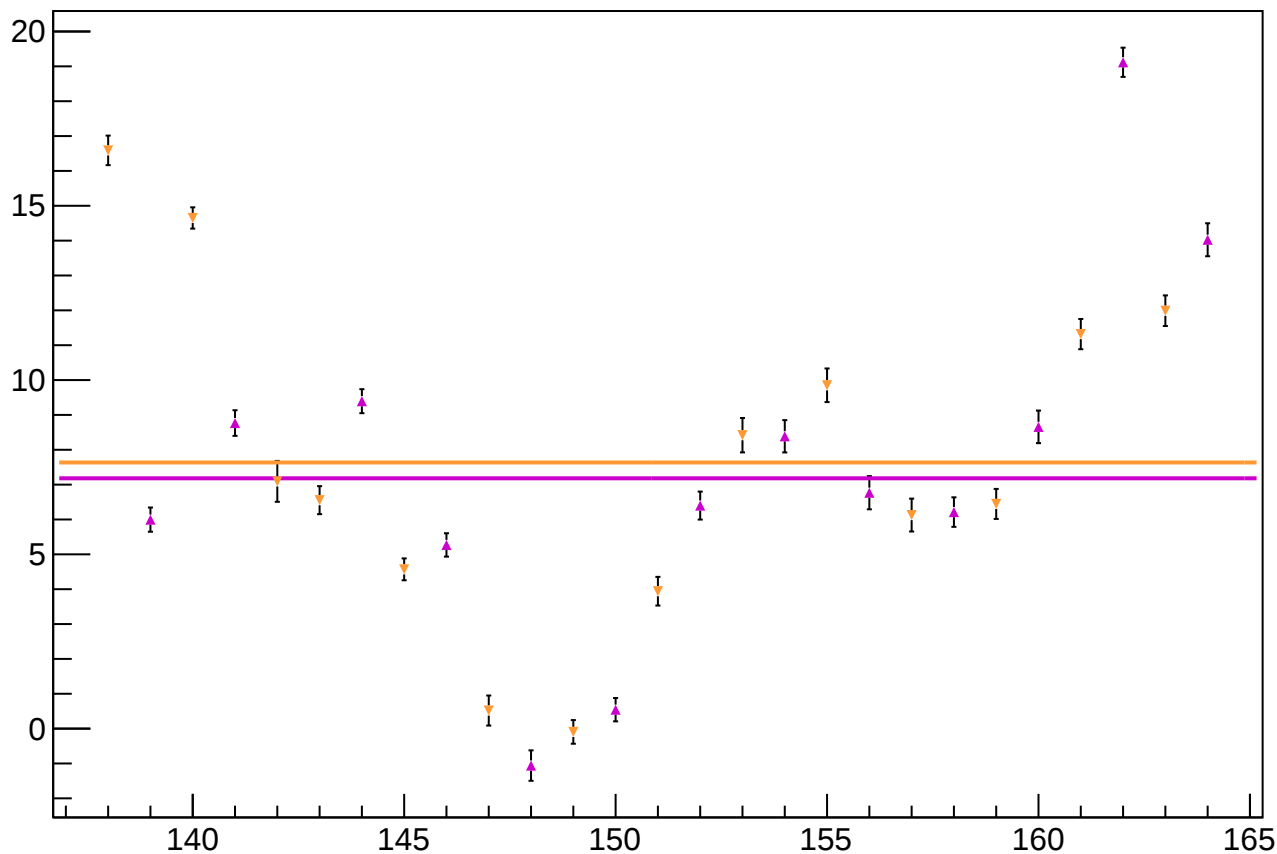
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.127 $\pm$ 0.006  $\chi^2$ /NDF:356.4/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:397.6/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.144 $\pm$ 0.004  $\chi^2$ /NDF: 772.8/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

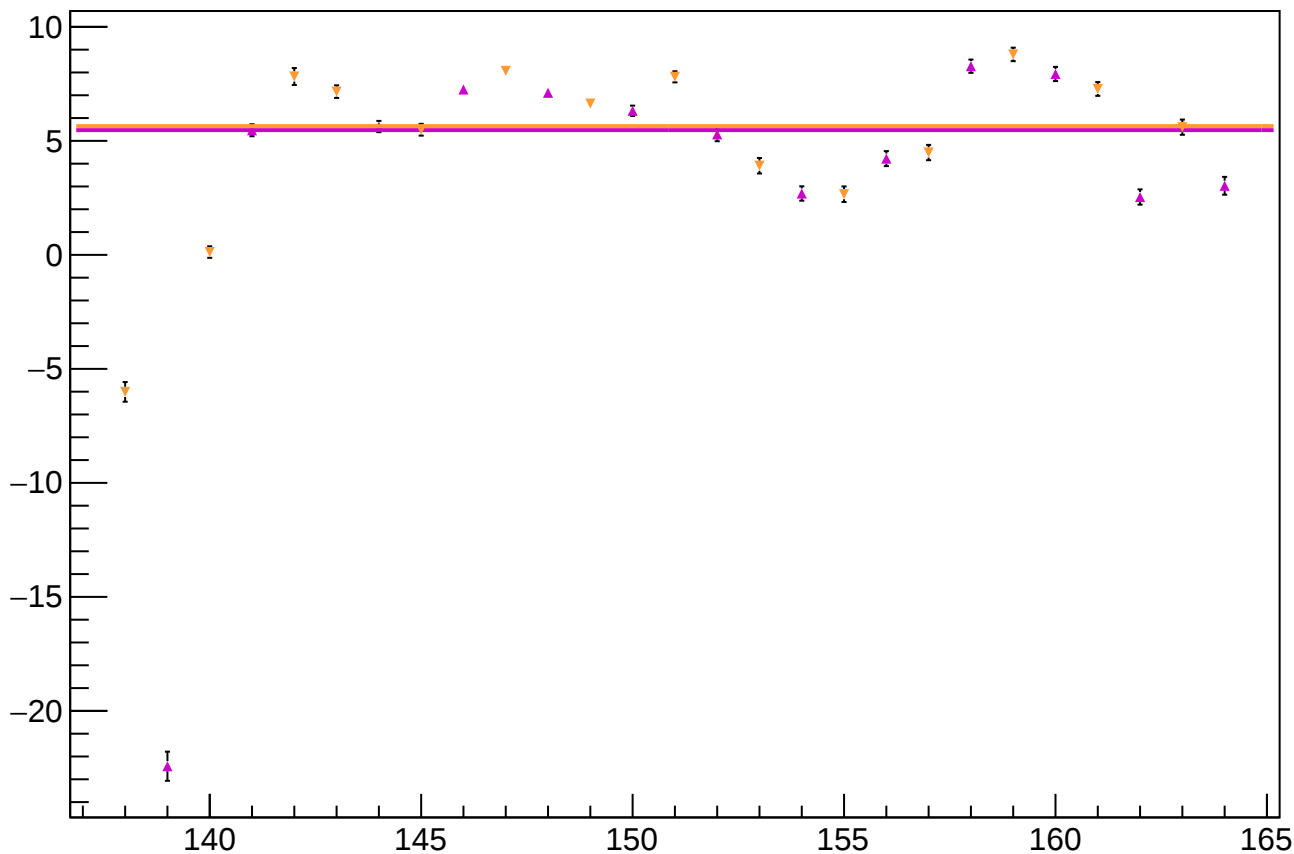
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.636+/-0.109  $\chi^2/\text{NDF}$ :2162.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.181+/-0.110  $\chi^2/\text{NDF}$ :1898.8/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 7.411+/-0.077  $\chi^2/\text{NDF}$ : 4070.0/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



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

Left Out: 5.646 $\pm$ 0.076  $\chi^2$ /NDF:1764.3/13

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

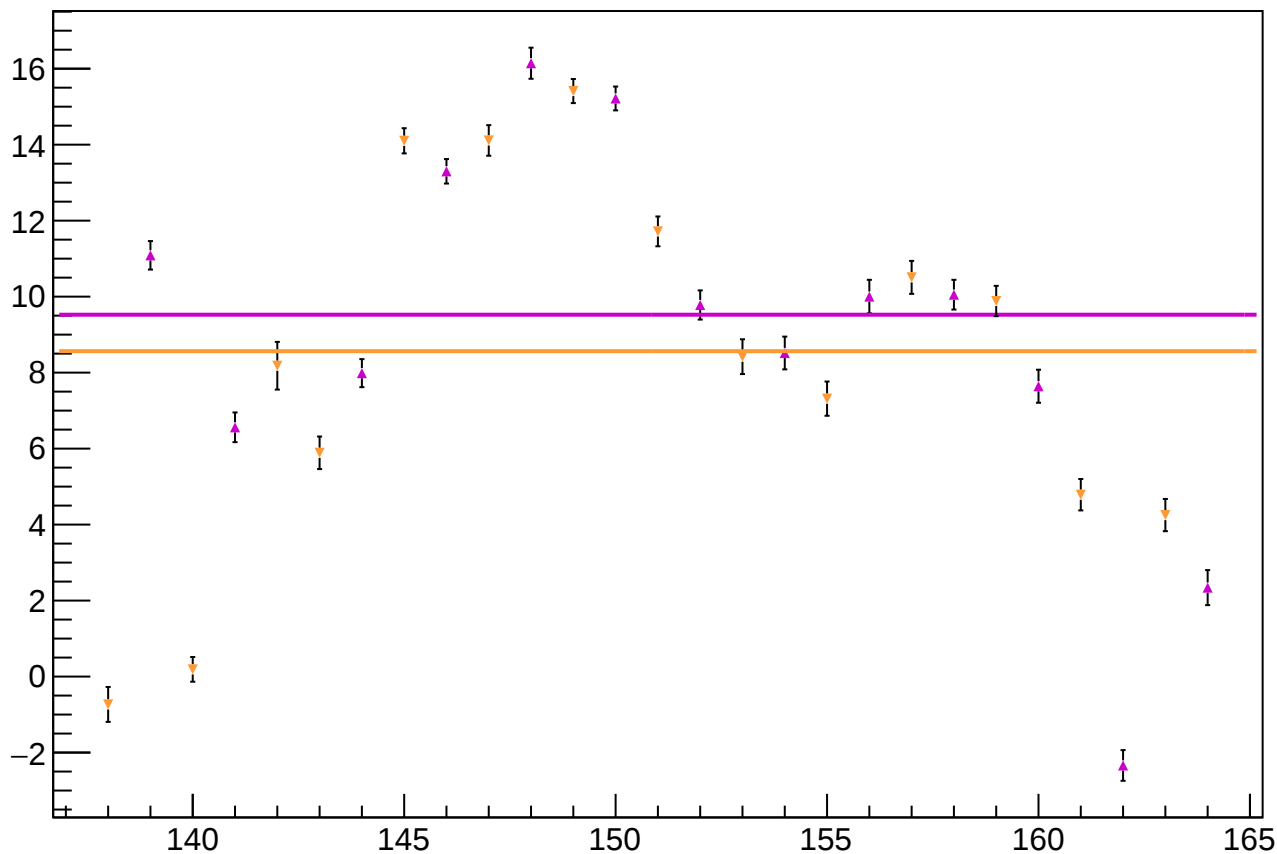
Left In: 5.471 $\pm$ 0.078  $\chi^2$ /NDF:2410.7/12

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

All: 5.561 $\pm$ 0.054  $\chi^2$ /NDF: 4177.5/26

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

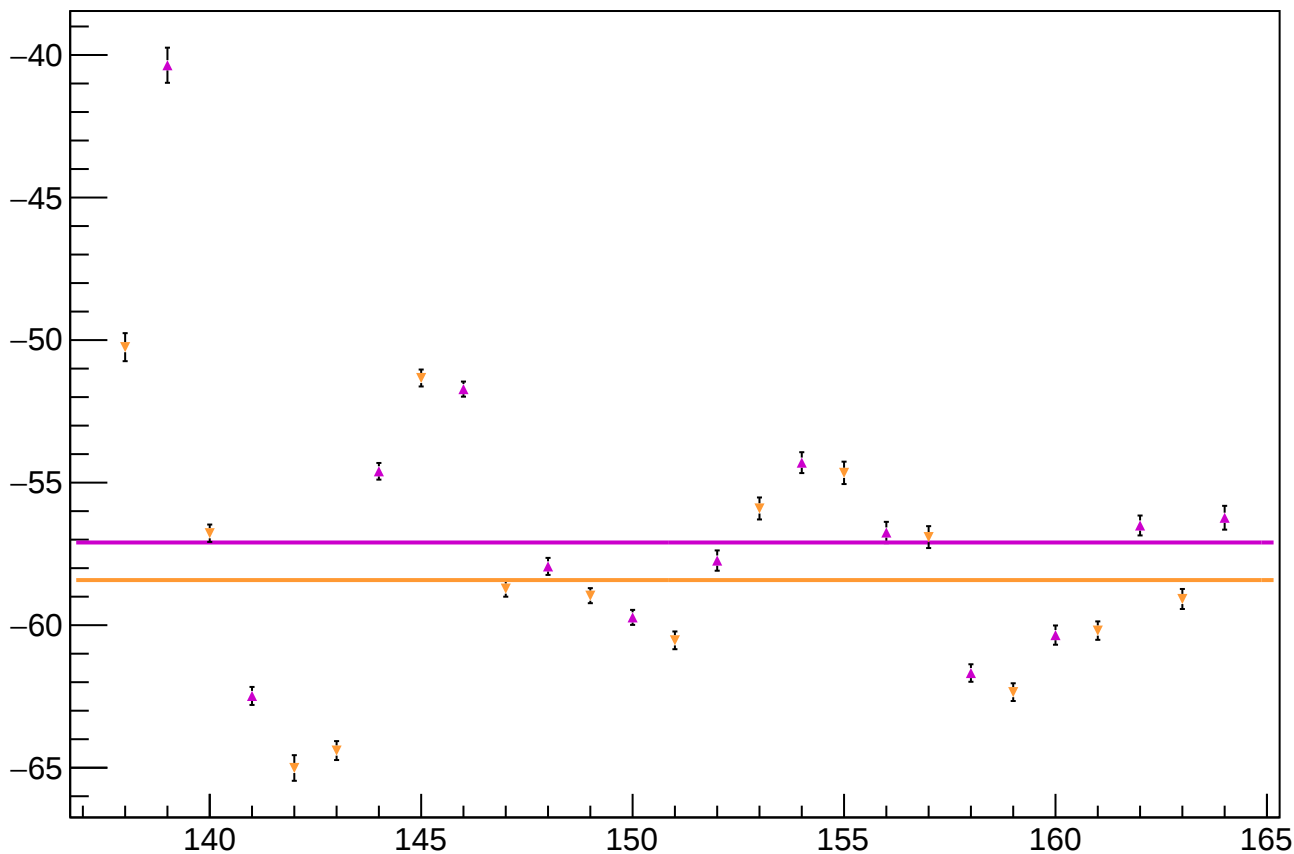
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.565 $\pm$ 0.107  $\chi^2$ /NDF:2336.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 9.524 $\pm$ 0.107  $\chi^2$ /NDF:1954.6/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 9.045 $\pm$ 0.076  $\chi^2$ /NDF: 4331.4/26  
 - 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:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-58.418 \pm 0.089$   $\chi^2/\text{NDF}$ : 1808.0/13

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

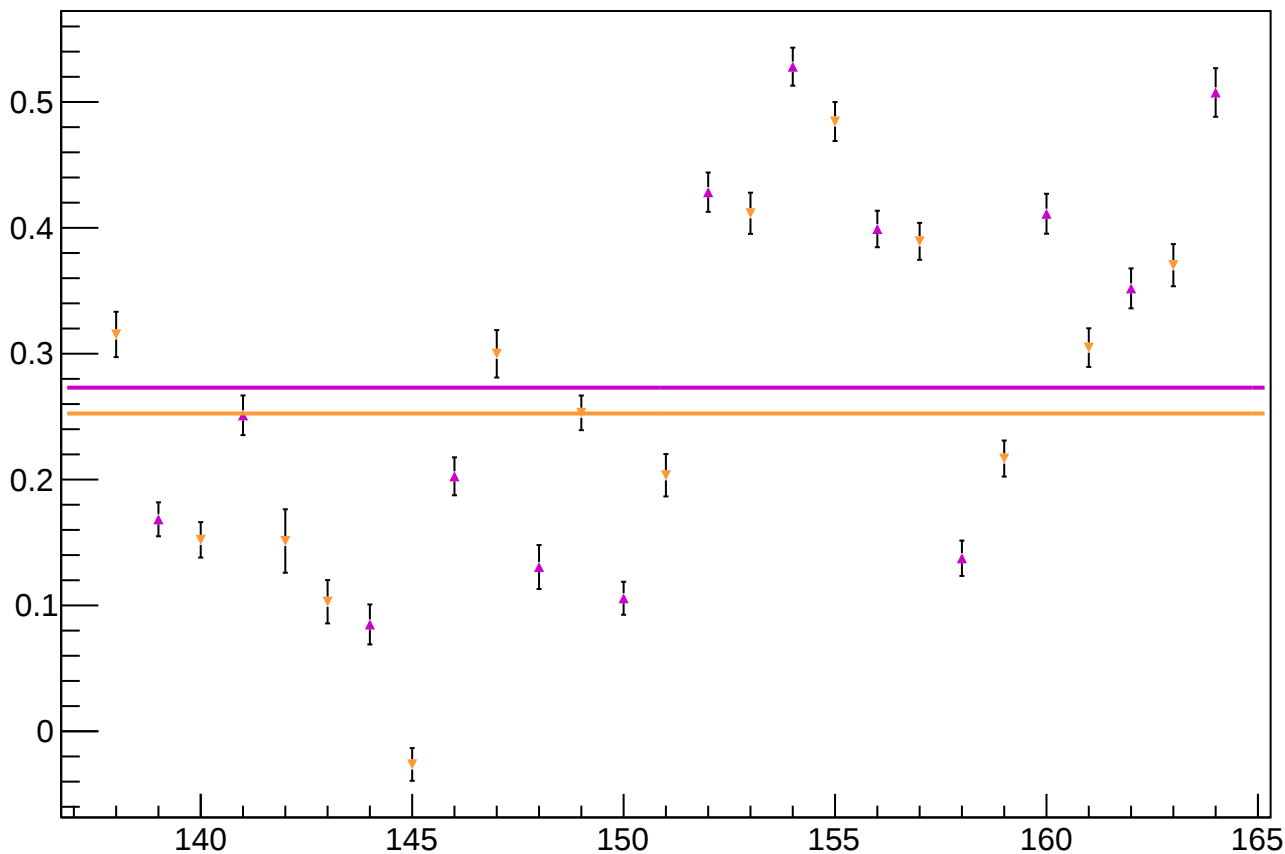
Left In:  $-57.100 \pm 0.091$   $\chi^2/\text{NDF}$ : 2005.5/12

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

All:  $-57.773 \pm 0.064$   $\chi^2/\text{NDF}$ : 3920.1/26

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

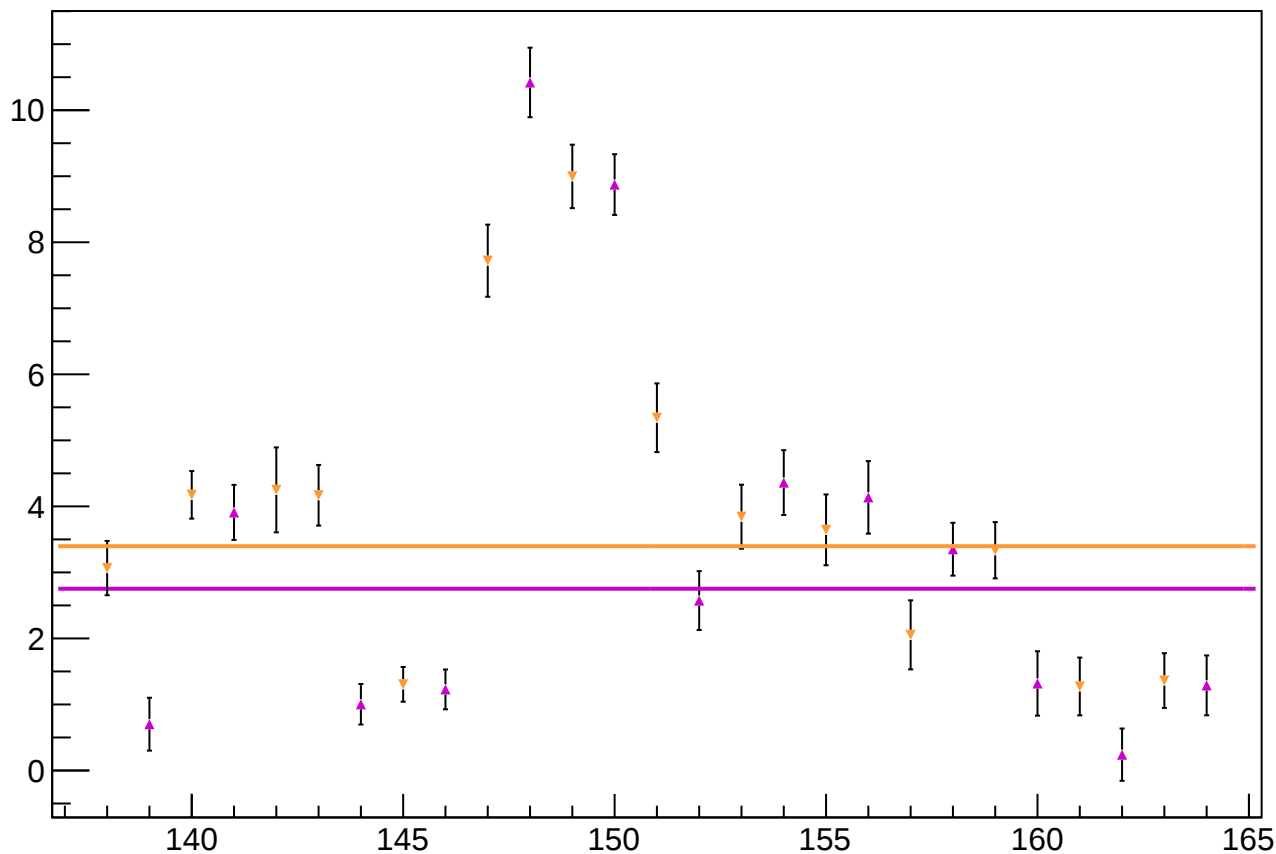
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.252 $\pm$ 0.004  $\chi^2$ /NDF:1100.9/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.273 $\pm$ 0.004  $\chi^2$ /NDF:1255.1/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.263 $\pm$ 0.003  $\chi^2$ /NDF: 2367.7/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

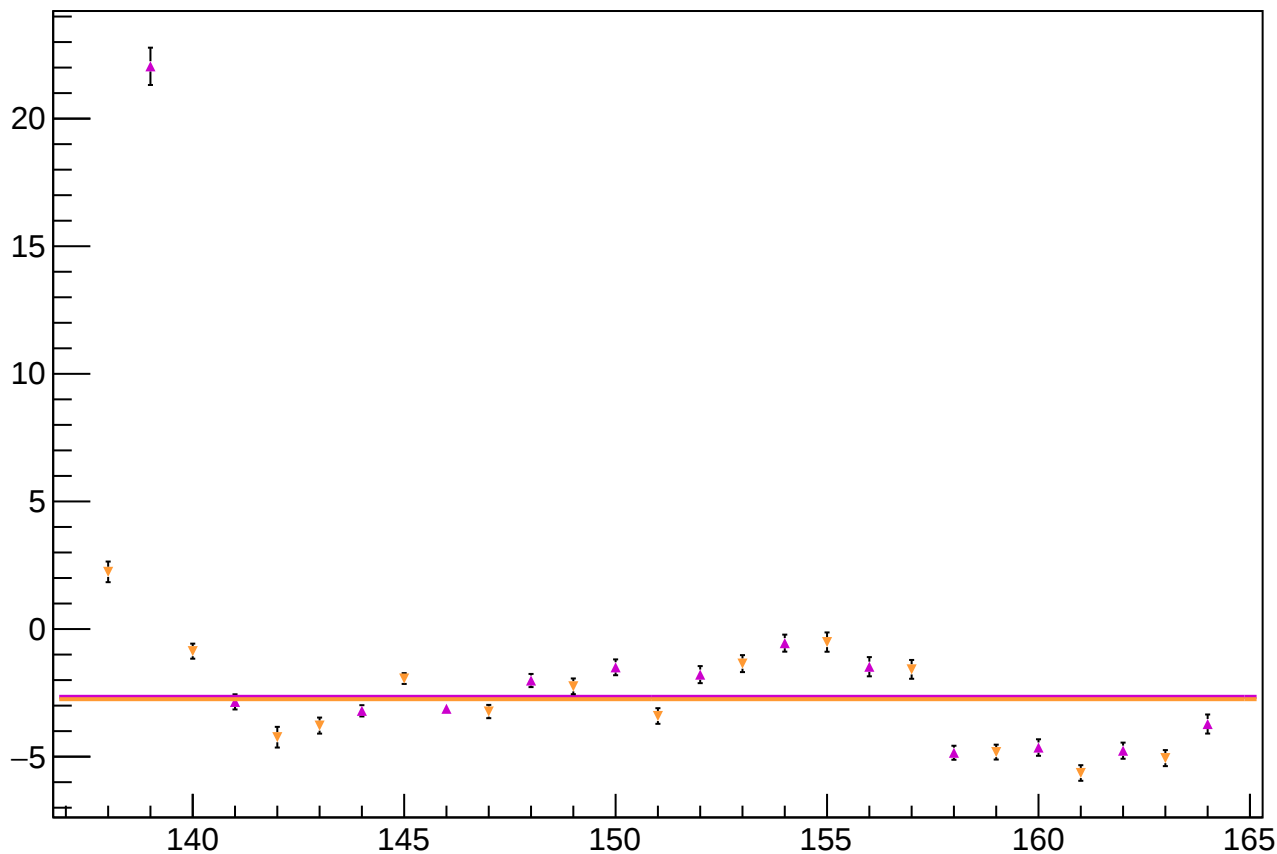
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.397 $\pm$ 0.116  $\chi^2$ /NDF:340.9/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.753 $\pm$ 0.115  $\chi^2$ /NDF:559.9/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 3.071 $\pm$ 0.081  $\chi^2$ /NDF: 916.4/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



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

Left Out: -2.748+/-0.082  $\chi^2/\text{NDF}$ : 499.4/13

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

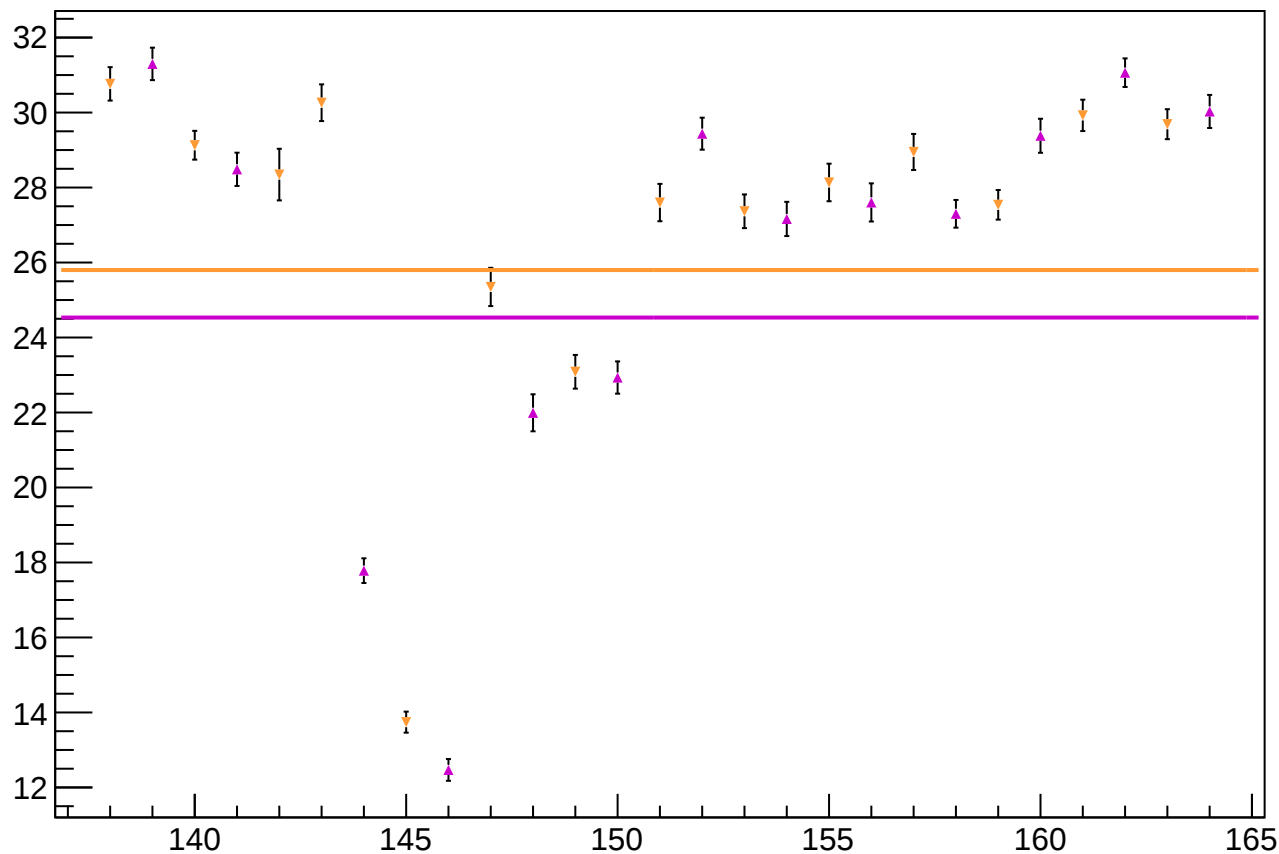
Left In: -2.655+/-0.081  $\chi^2/\text{NDF}$ : 1385.0/12

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

All: -2.701+/-0.058  $\chi^2/\text{NDF}$ : 1885.0/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 25.799+/-0.115  $\chi^2/\text{NDF}$ :2484.3/13

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

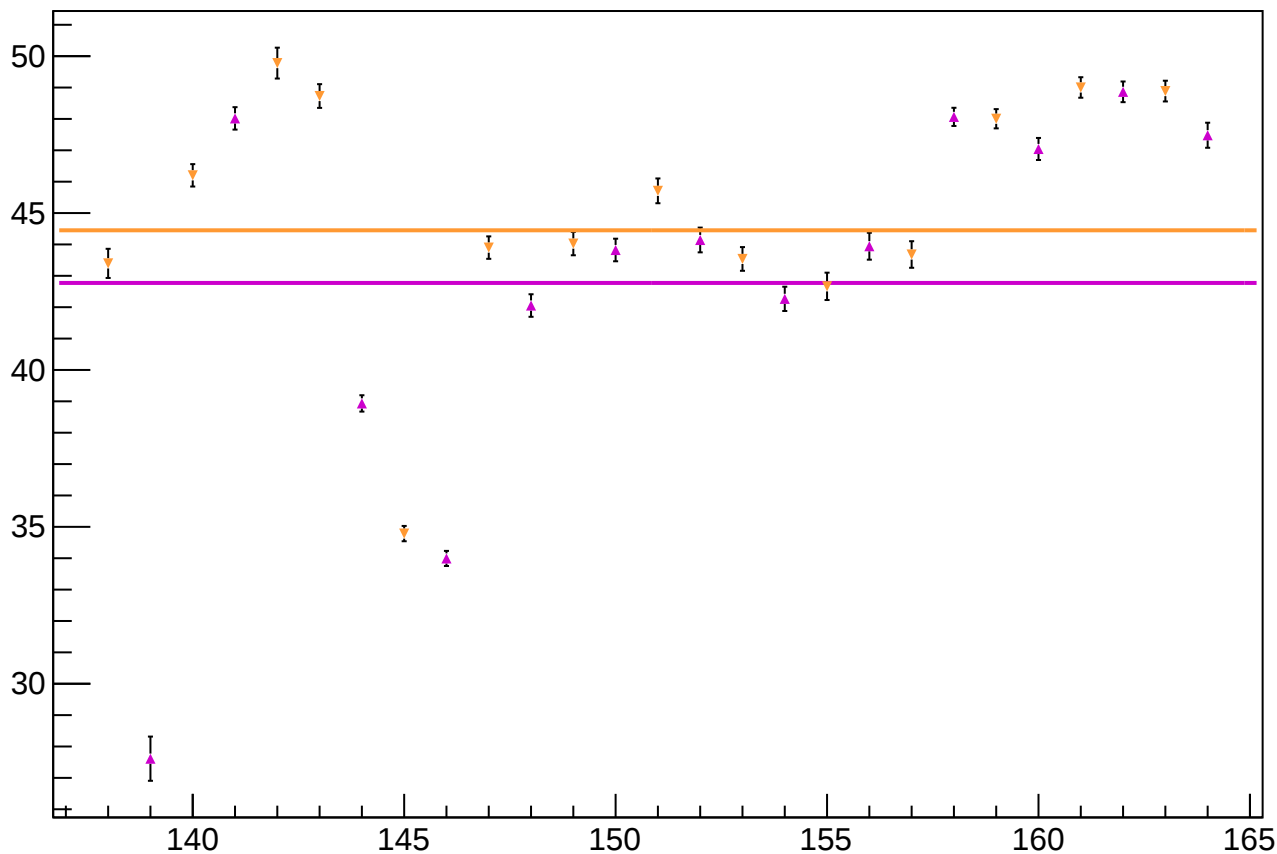
Left In: 24.533+/-0.112  $\chi^2/\text{NDF}$ :3335.6/12

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

All: 25.149+/-0.080  $\chi^2/\text{NDF}$ : 5881.9/26

- 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: 44.450+/-0.096  $\chi^2/\text{NDF}$ : 2392.5/13

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

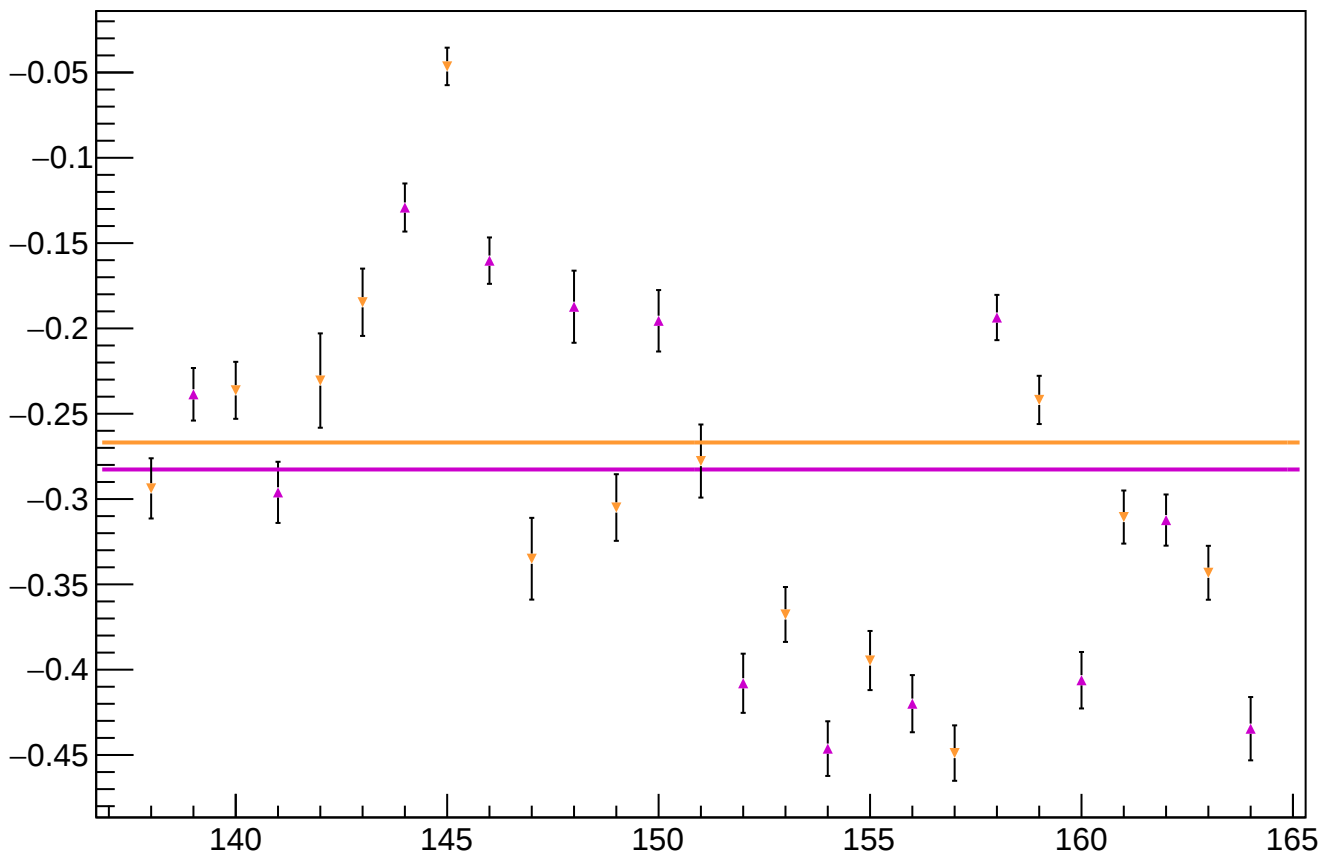
Left In: 42.773+/-0.095  $\chi^2/\text{NDF}$ : 3223.8/12

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

All: 43.602+/-0.067  $\chi^2/\text{NDF}$ : 5771.2/26

- 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: -0.267+/-0.004  $\chi^2/\text{NDF}$ : 693.1/13

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

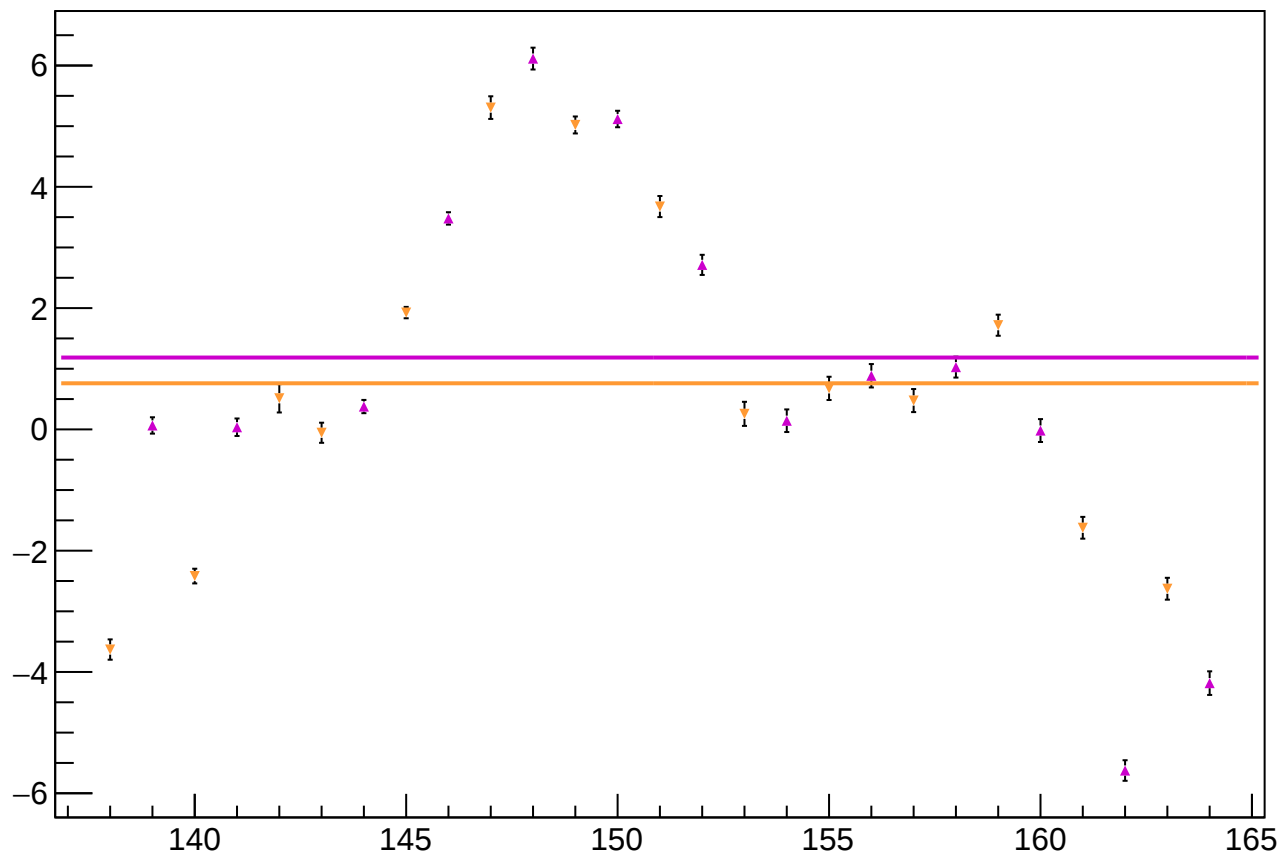
Left In: -0.283+/-0.004  $\chi^2/\text{NDF}$ : 647.5/12

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

All: -0.275+/-0.003  $\chi^2/\text{NDF}$ : 1346.9/26

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

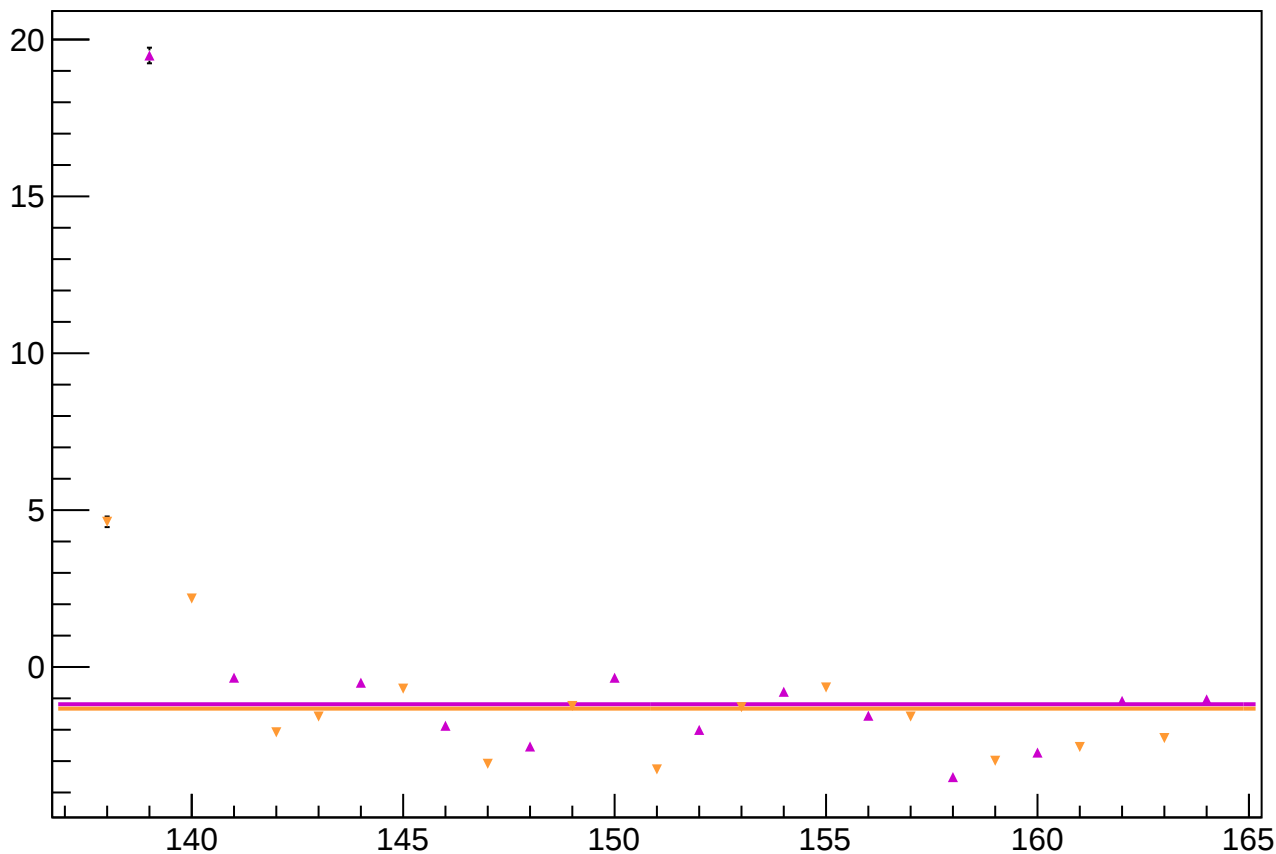
# reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.760+/-0.042  $\chi^2/\text{NDF}$ :3924.1/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.185+/-0.041  $\chi^2/\text{NDF}$ :4809.7/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.977+/-0.030  $\chi^2/\text{NDF}$ : 8785.2/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

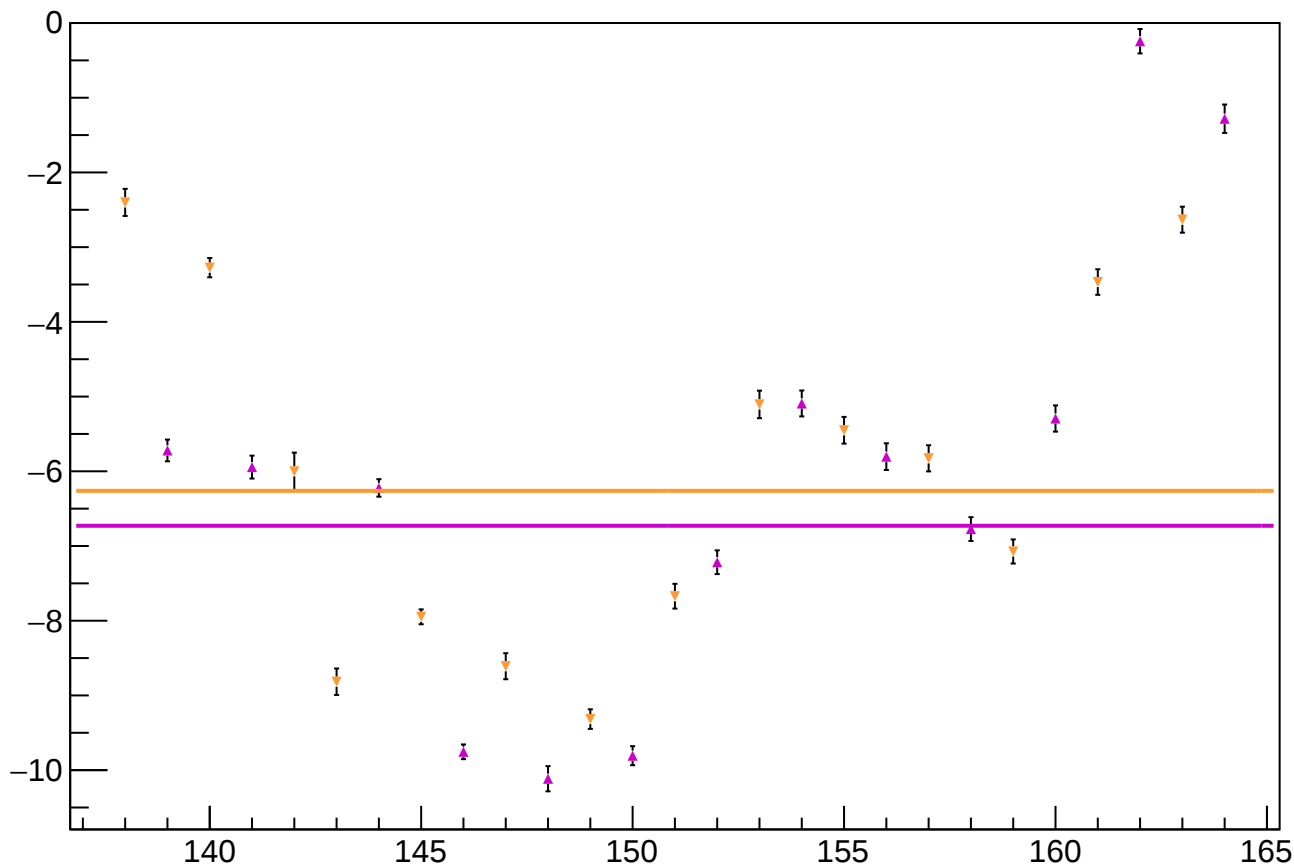
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -1.328 $\pm$ 0.030  $\chi^2$ /NDF:3675.1/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -1.187 $\pm$ 0.029  $\chi^2$ /NDF:8045.9/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -1.257 $\pm$ 0.021  $\chi^2$ /NDF: 11732.1/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



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

Left Out: -6.262+/-0.042  $\chi^2/\text{NDF}$ : 3075.8/13

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

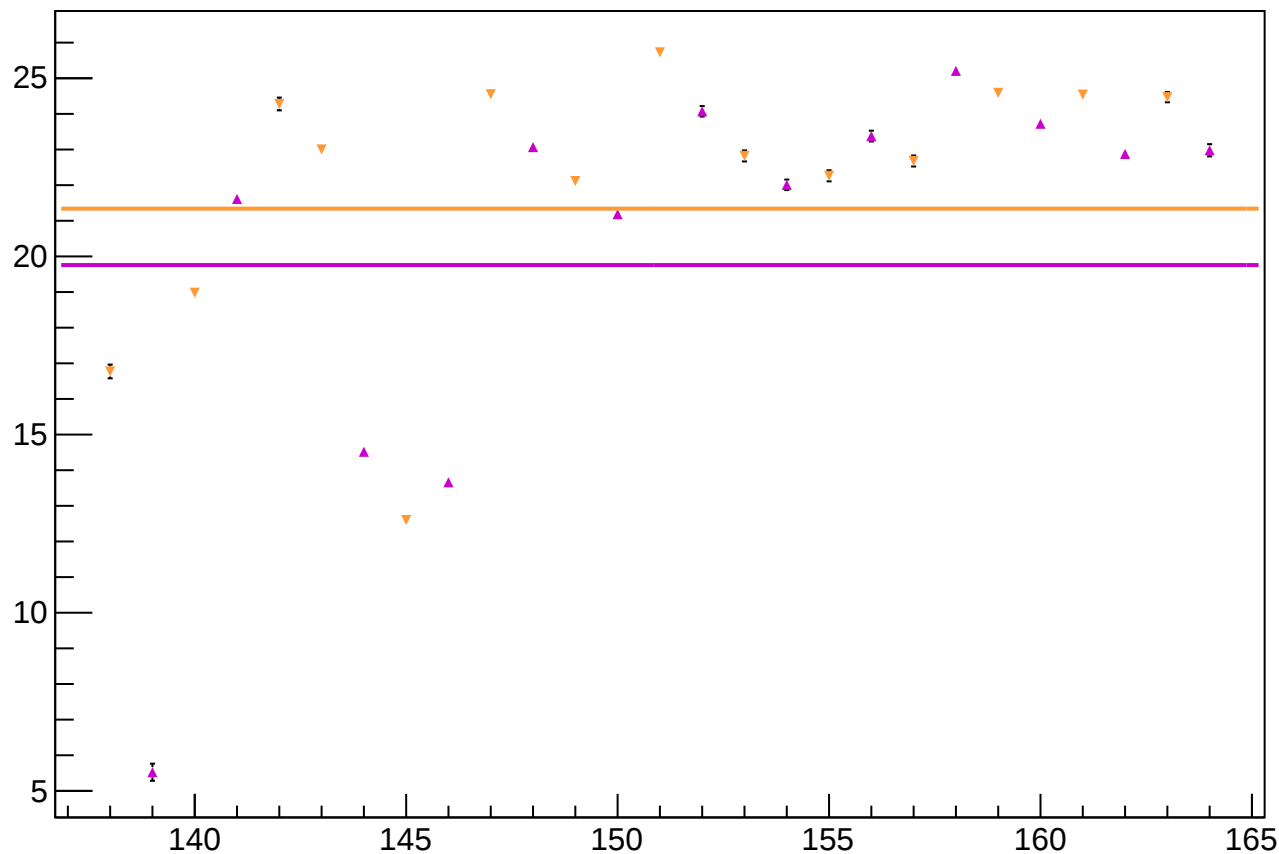
Left In: -6.729+/-0.041  $\chi^2/\text{NDF}$ : 4619.2/12

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

All: -6.503+/-0.029  $\chi^2/\text{NDF}$ : 7758.9/26

- sign 0.000+/-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: 21.341+/-0.035  $\chi^2/\text{NDF}$ :14924.9/13

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

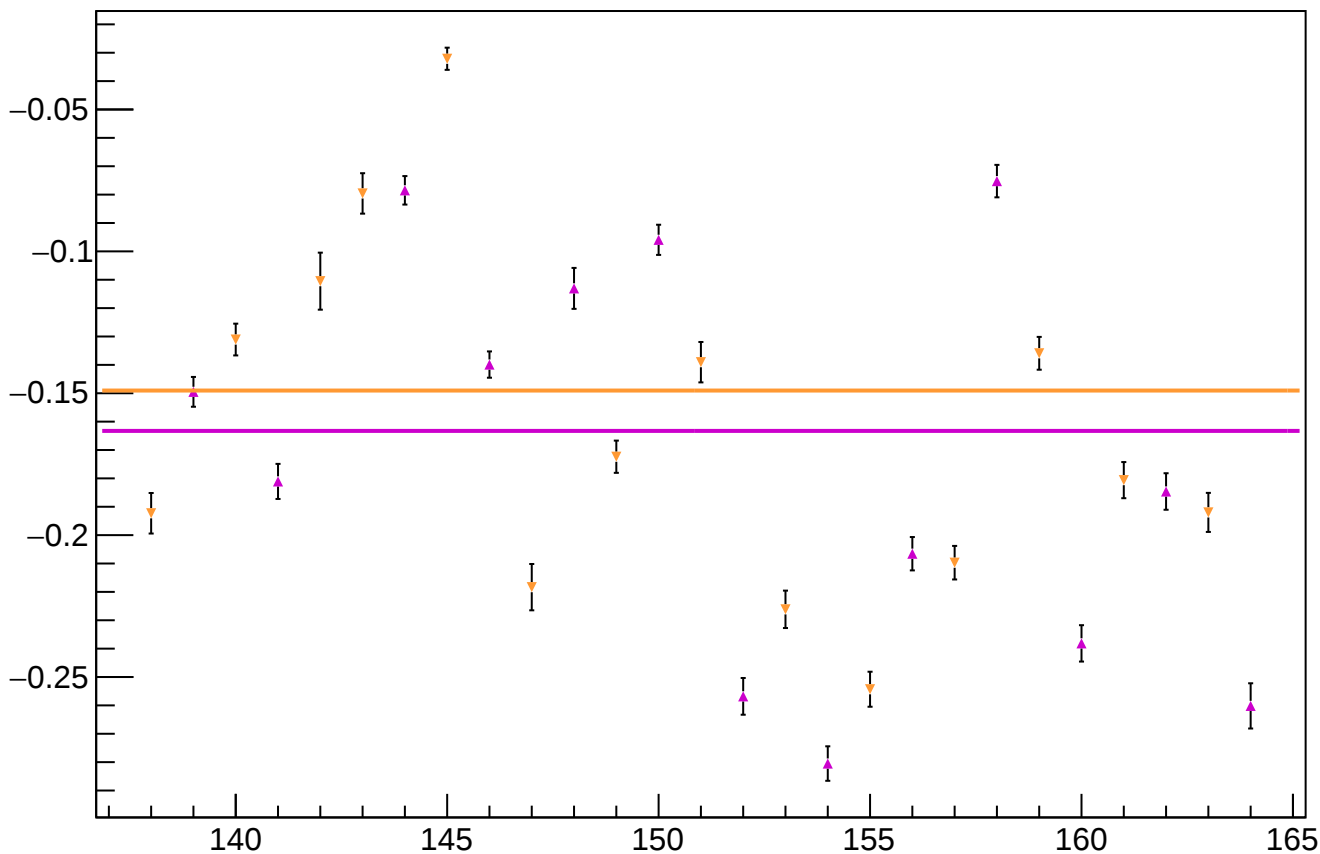
Left In: 19.757+/-0.035  $\chi^2/\text{NDF}$ :18547.0/12

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

All: 20.536+/-0.025  $\chi^2/\text{NDF}$ : 34504.0/26

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

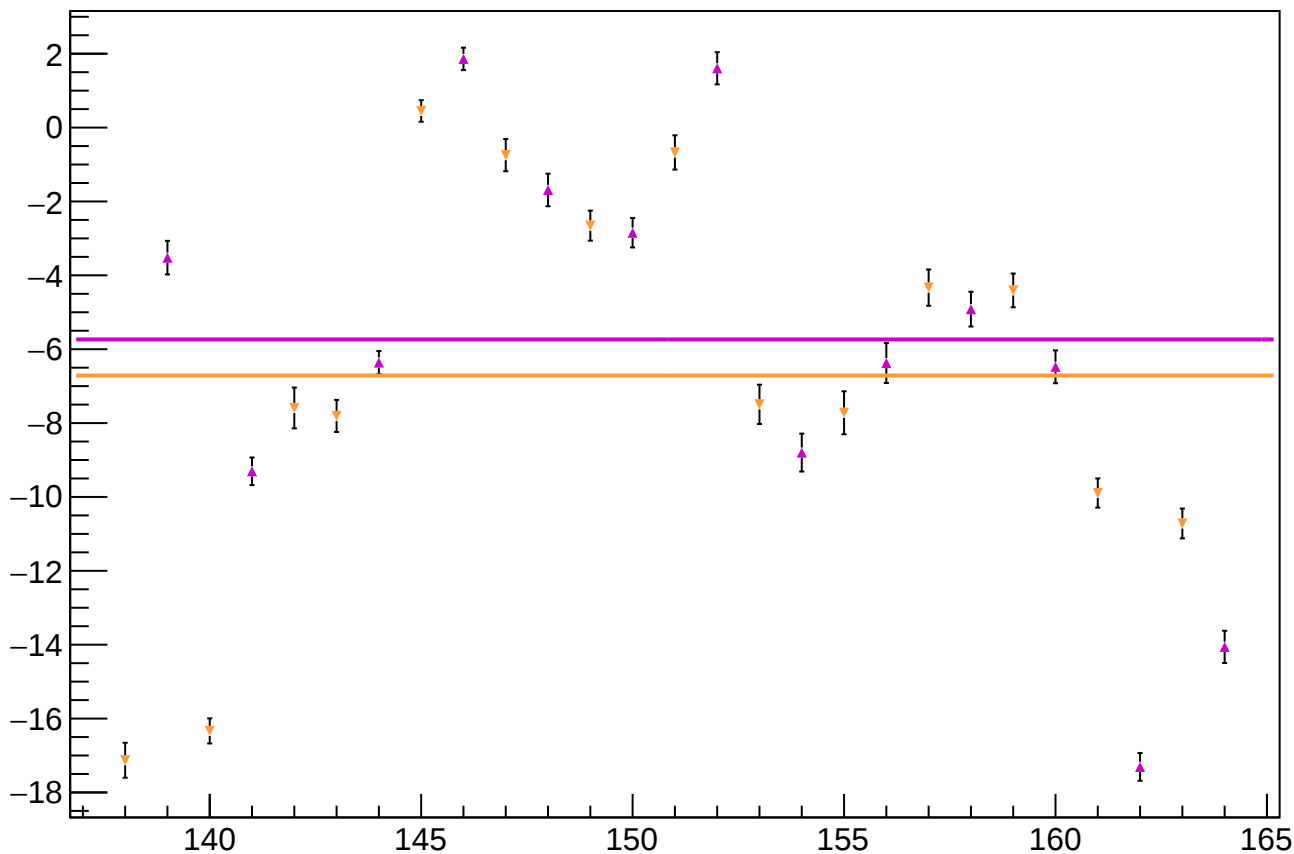
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.149 $\pm$ 0.002  $\chi^2$ /NDF:1744.7/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.163 $\pm$ 0.002  $\chi^2$ /NDF:1701.8/12

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.156 $\pm$ 0.001  $\chi^2$ /NDF: 3484.1/26  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

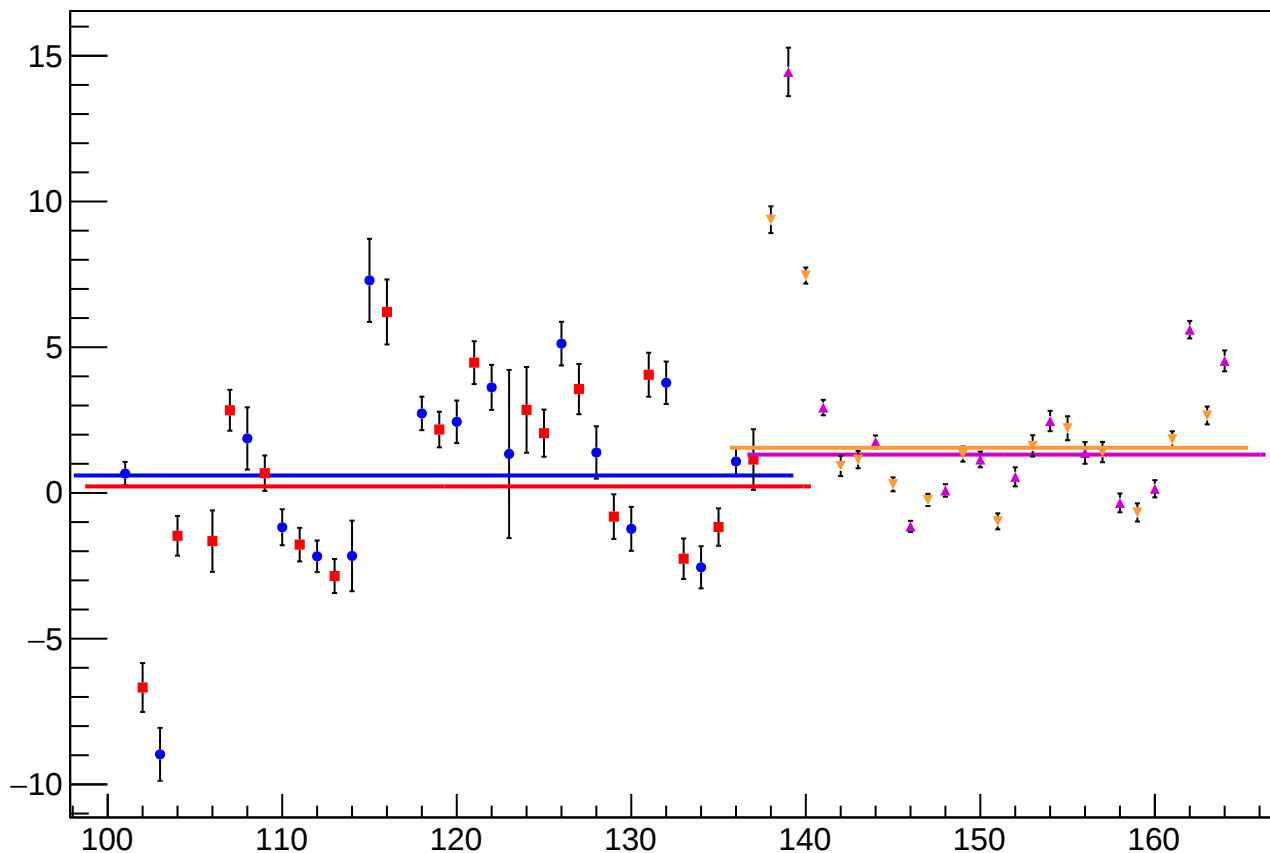
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.712+/-0.114  $\chi^2/\text{NDF}$ : 2569.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.736+/-0.113  $\chi^2/\text{NDF}$ : 2518.9/12

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -6.219+/-0.080  $\chi^2/\text{NDF}$ : 5125.2/26  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $1.551 \pm 0.079$   $\chi^2/\text{NDF}$ : 1008.7/13

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

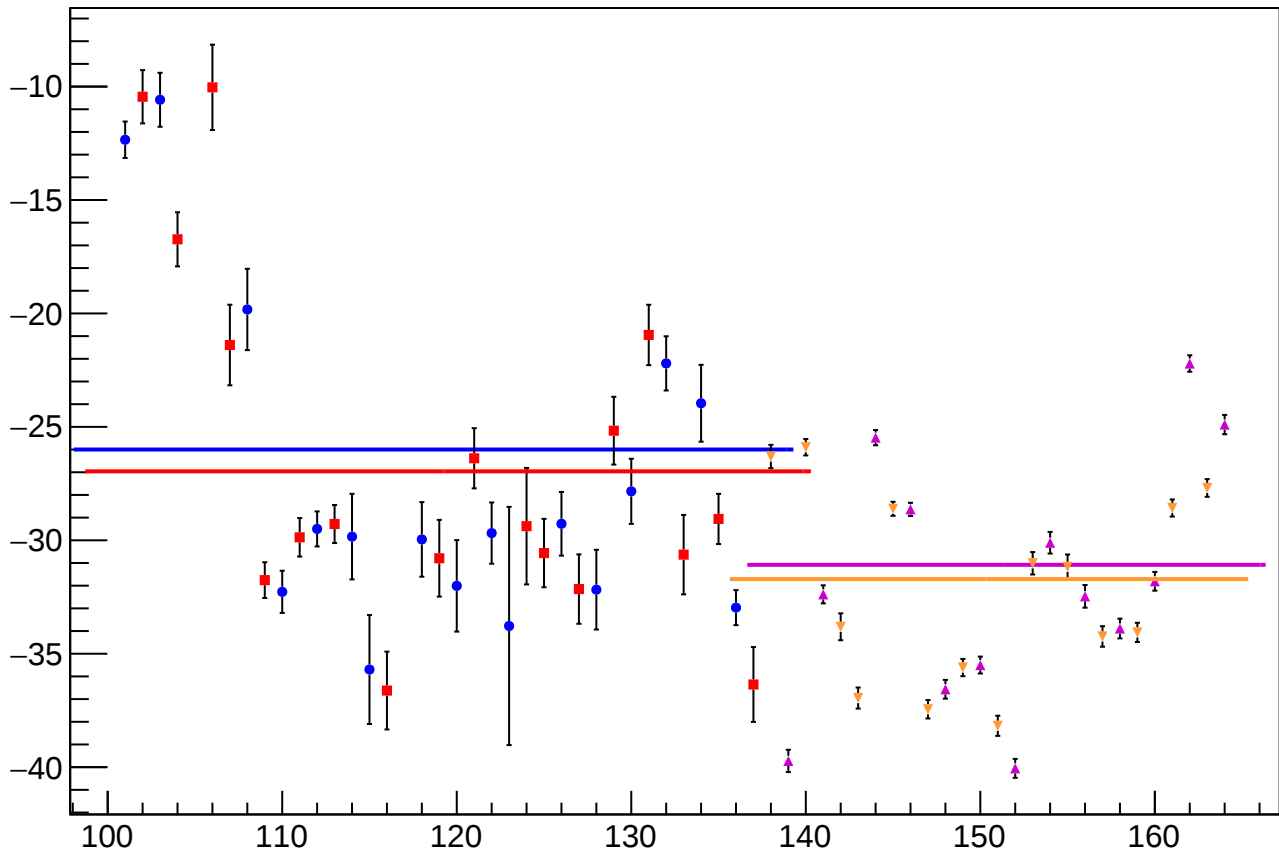
Left In:  $1.316 \pm 0.078$   $\chi^2/\text{NDF}$ : 832.3/12

+ sign  $1.382 \pm 0.071$   $\chi^2/\text{NDF}$ : 1326.6/30

All:  $1.258 \pm 0.050$   $\chi^2/\text{NDF}$ : 2470.6/61

- sign  $1.134 \pm 0.071$   $\chi^2/\text{NDF}$ : 1137.9/30

# 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:  $-31.709 \pm 0.113$   $\chi^2/\text{NDF}$ : 1365.9/13

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

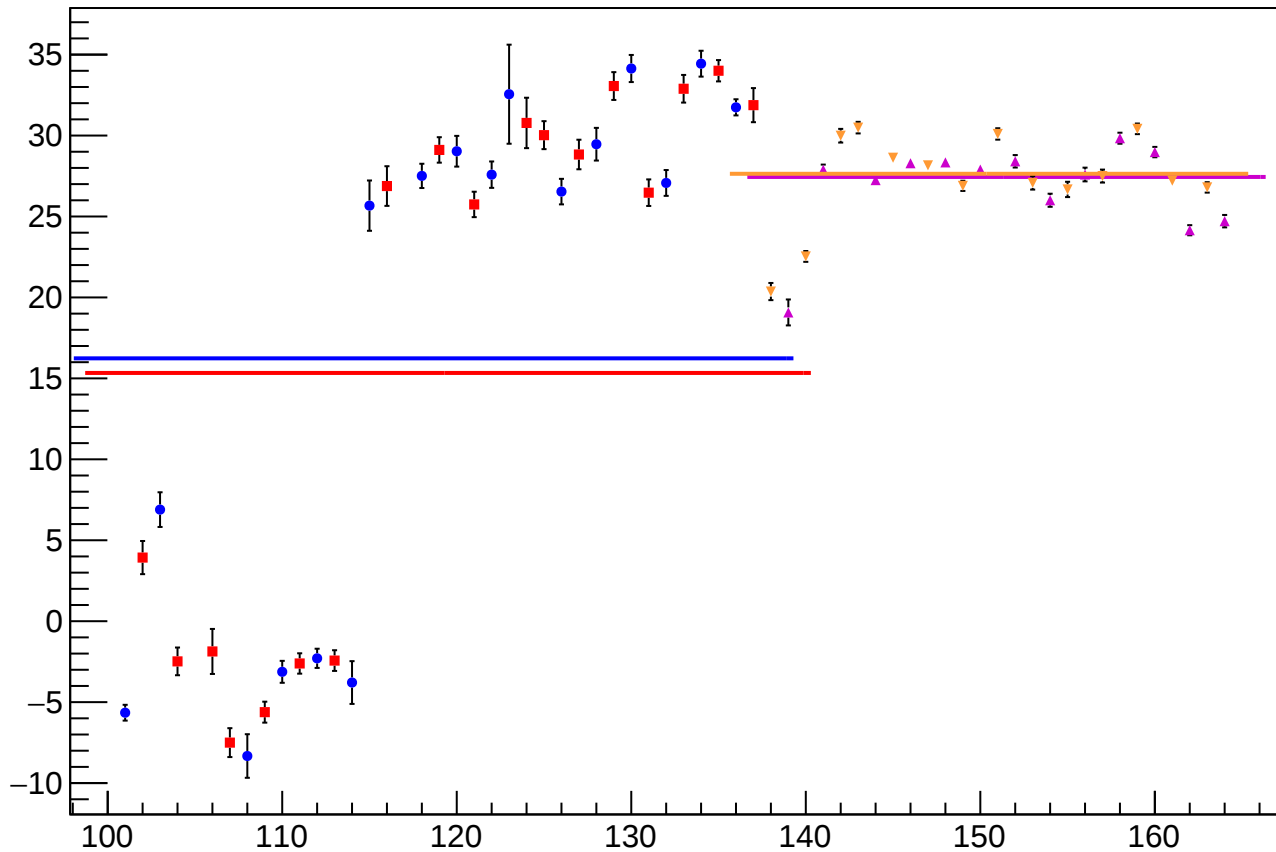
Left In:  $-31.081 \pm 0.110$   $\chi^2/\text{NDF}$ : 2318.7/12

+ sign  $-31.005 \pm 0.105$   $\chi^2/\text{NDF}$ : 2376.1/30

All:  $-30.792 \pm 0.074$   $\chi^2/\text{NDF}$ : 5406.3/61

- sign  $-30.588 \pm 0.103$   $\chi^2/\text{NDF}$ : 3022.2/30

# 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: 27.638 $\pm$ 0.093  $\chi^2$ /NDF:673.4/13

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

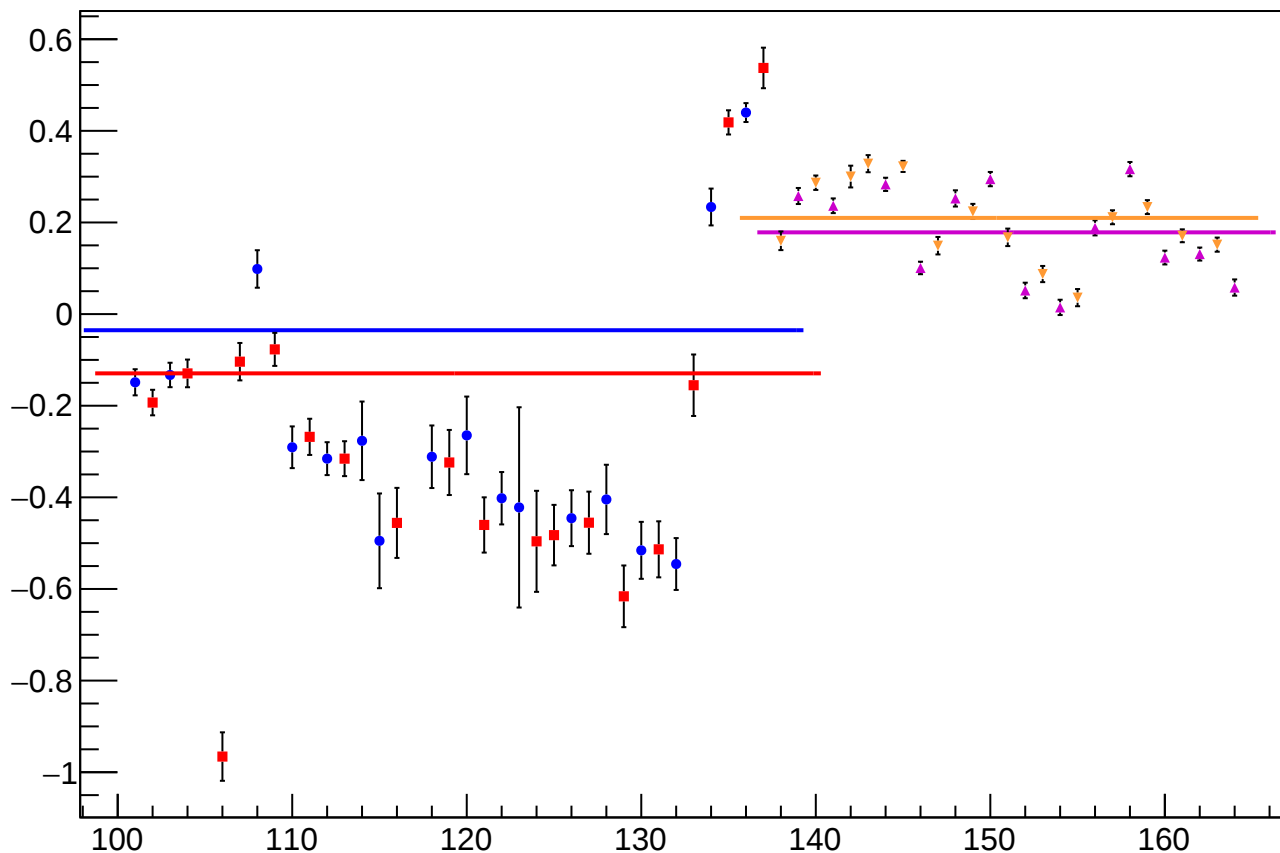
Left In: 27.443 $\pm$ 0.092  $\chi^2$ /NDF:388.1/12

+ sign 25.472 $\pm$ 0.083  $\chi^2$ /NDF: 11127.7/30

All: 25.376 $\pm$ 0.059  $\chi^2$ /NDF: 21876.5/61

- sign 25.281 $\pm$ 0.083  $\chi^2$ /NDF: 10746.1/30

# 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:  $0.210 \pm 0.004$   $\chi^2/\text{NDF}$ : 344.3/13

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

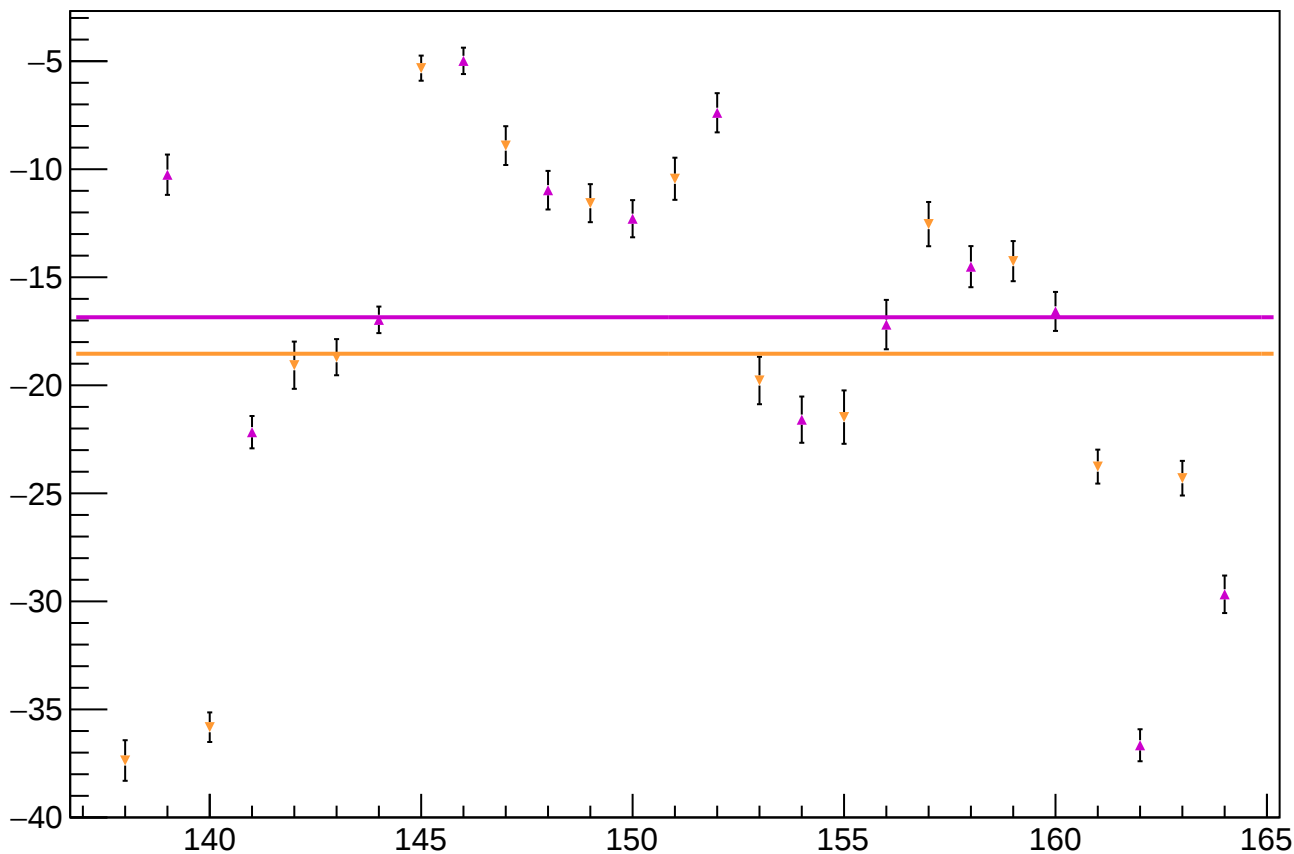
Left In:  $0.178 \pm 0.004$   $\chi^2/\text{NDF}$ : 492.5/12

+ sign  $0.172 \pm 0.004$   $\chi^2/\text{NDF}$ : 1834.3/30

All:  $0.152 \pm 0.003$   $\chi^2/\text{NDF}$ : 4281.7/61

- sign  $0.132 \pm 0.004$   $\chi^2/\text{NDF}$ : 2398.8/30

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out:  $-18.539 \pm 0.230$   $\chi^2/\text{NDF}$ : 1960.6/13

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

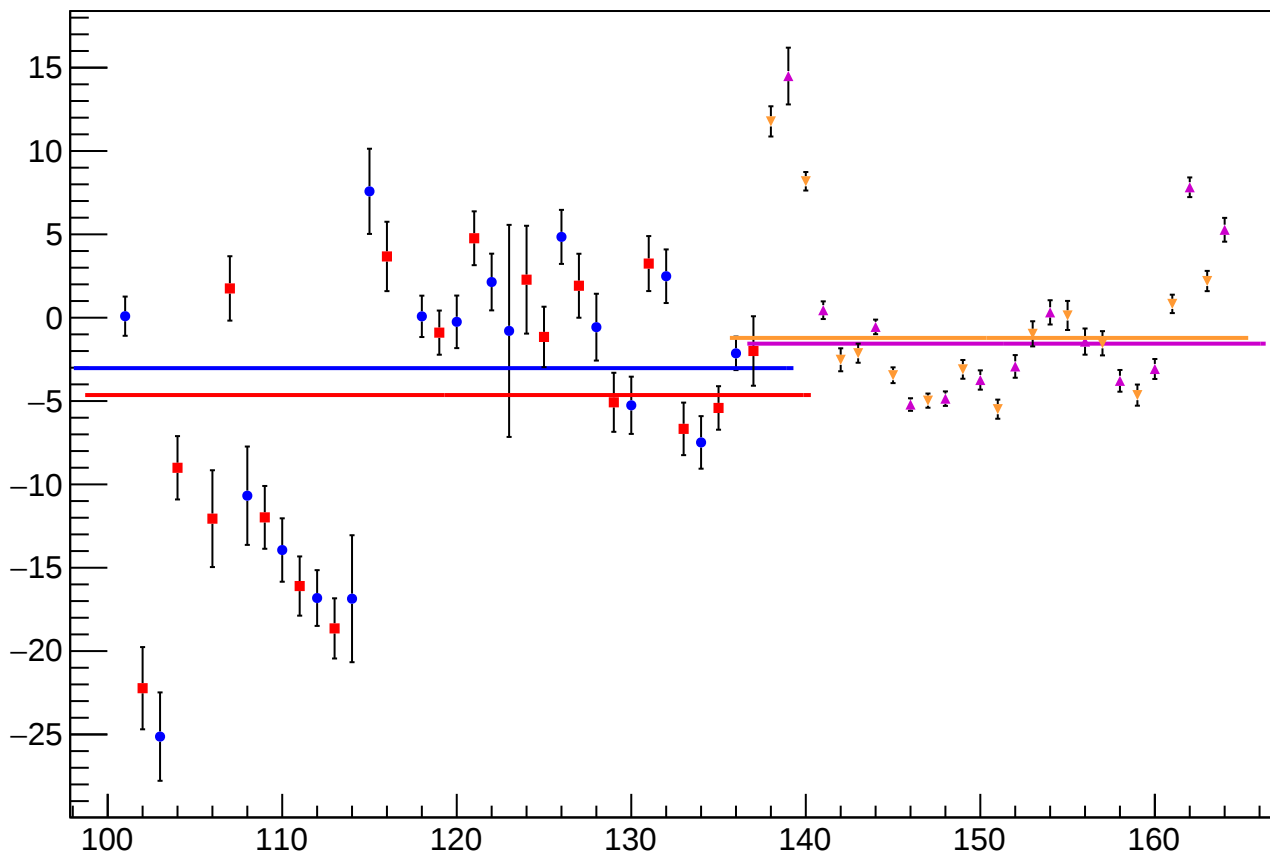
Left In:  $-16.851 \pm 0.228$   $\chi^2/\text{NDF}$ : 1618.0/12

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

All:  $-17.687 \pm 0.162$   $\chi^2/\text{NDF}$ : 3605.8/26

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $-1.213 \pm 0.160$   $\chi^2/\text{NDF}$ : 742.4/13

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

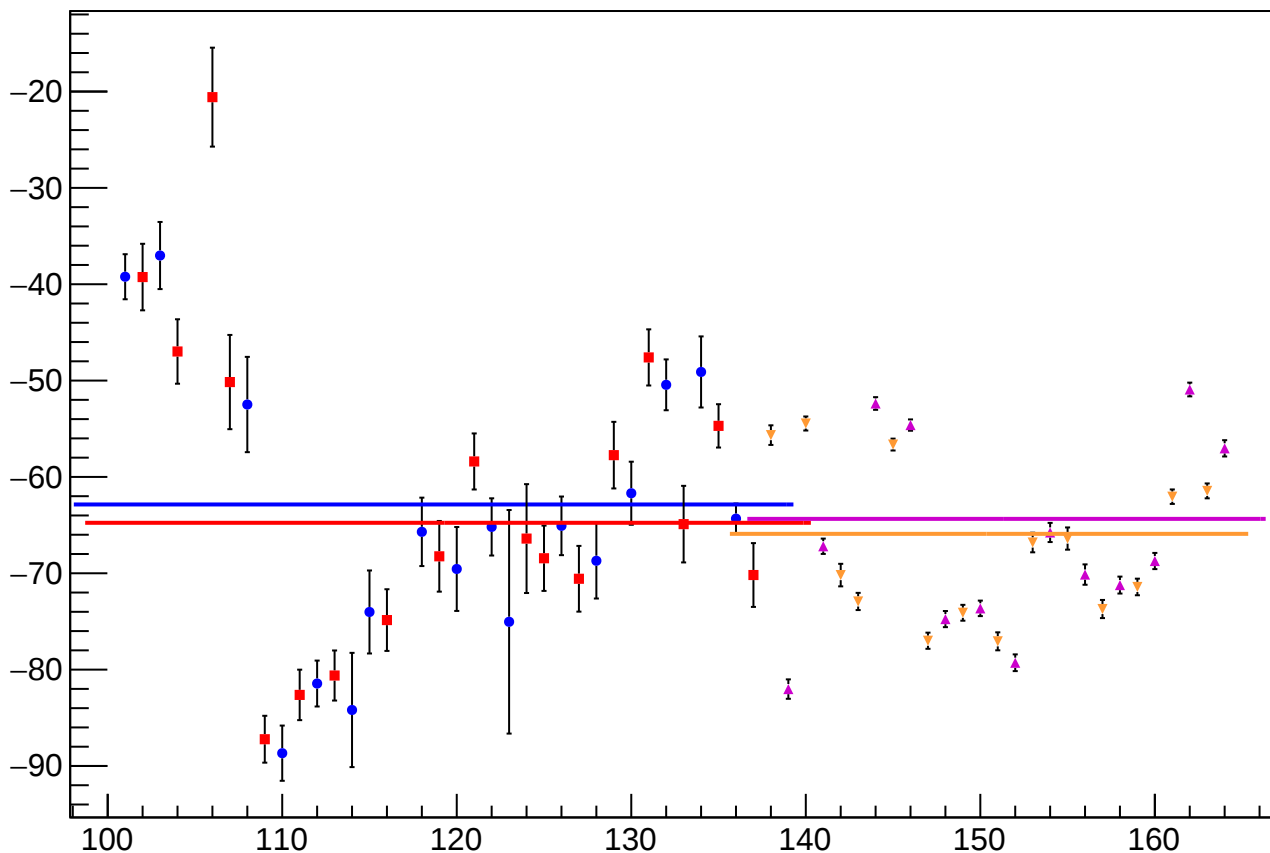
Left In:  $-1.557 \pm 0.158$   $\chi^2/\text{NDF}$ : 646.9/12

+ sign  $-1.453 \pm 0.149$   $\chi^2/\text{NDF}$ : 1040.1/30

All:  $-1.692 \pm 0.105$   $\chi^2/\text{NDF}$ : 2033.0/61

- sign  $-1.929 \pm 0.148$   $\chi^2/\text{NDF}$ : 987.7/30

# 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:  $-65.908 \pm 0.229$   $\chi^2/\text{NDF}$ : 1235.9/13

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}$ : 416.1/17

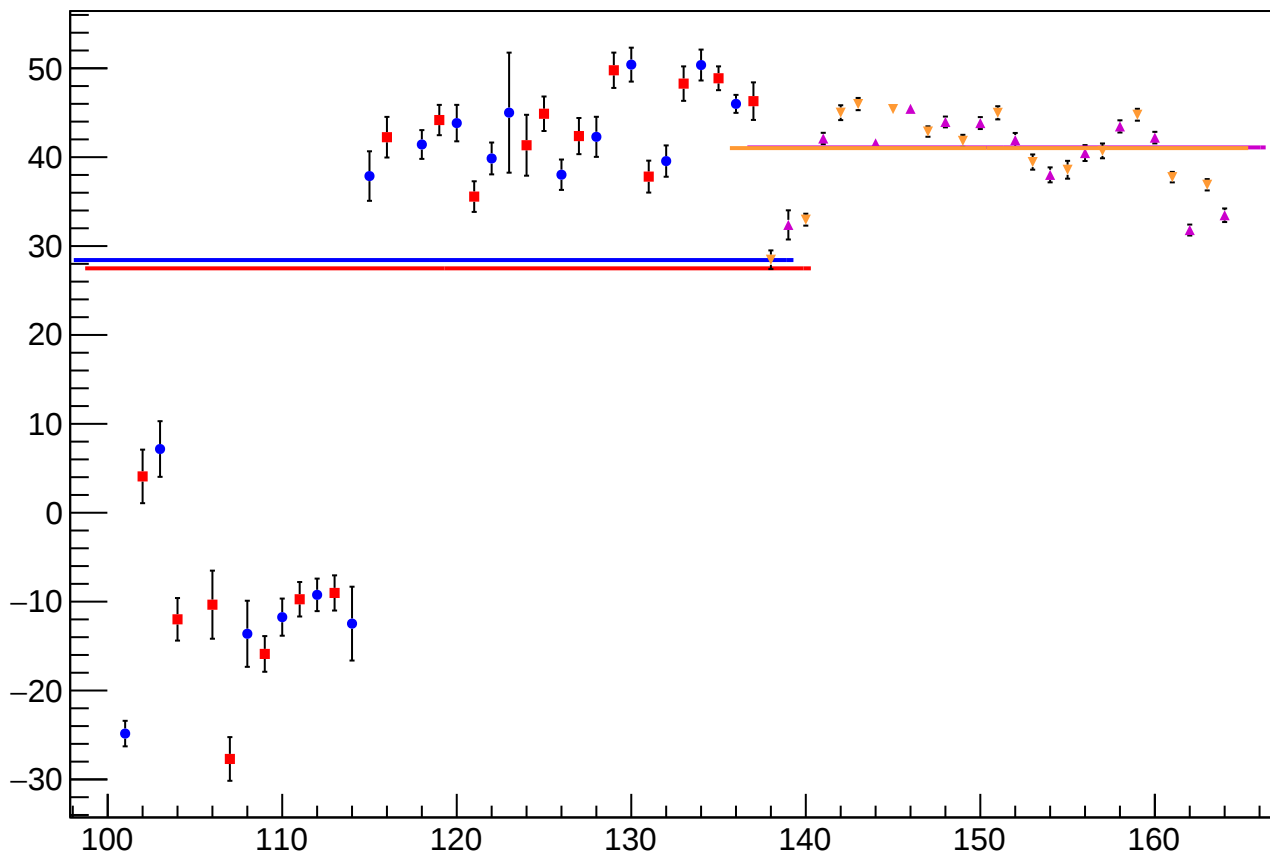
Left In:  $-64.353 \pm 0.223$   $\chi^2/\text{NDF}$ : 2059.9/12

+ sign  $-65.642 \pm 0.218$   $\chi^2/\text{NDF}$ : 1619.2/30

All:  $-65.001 \pm 0.153$   $\chi^2/\text{NDF}$ : 4112.4/61

- sign  $-64.386 \pm 0.214$   $\chi^2/\text{NDF}$ : 2476.3/30

# 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: 41.019 $\pm$ 0.188  $\chi^2$ /NDF: 580.2/13

Right Out: 27.493 $\pm$ 0.479  $\chi^2$ /NDF: 3027.8/17

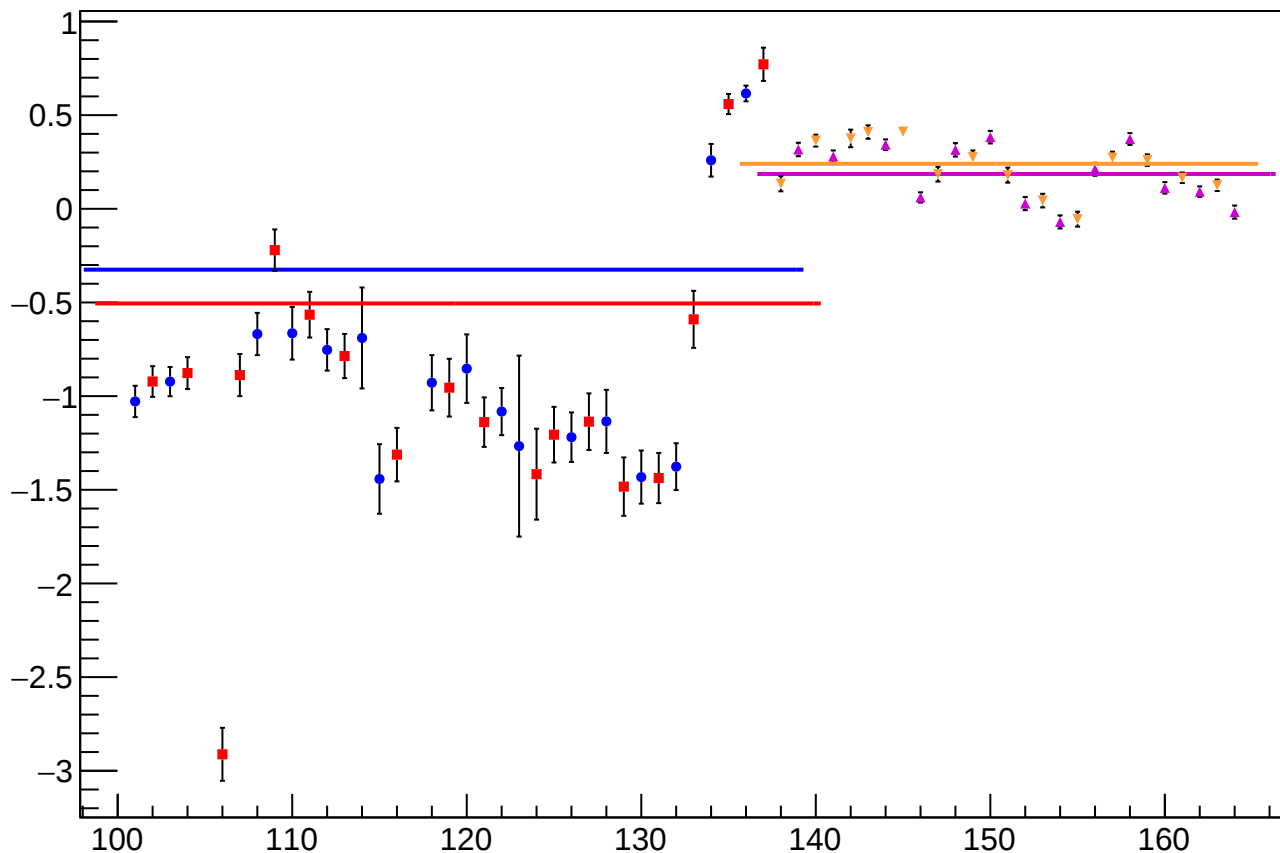
Left In: 41.097 $\pm$ 0.186  $\chi^2$ /NDF: 511.5/12

+ sign 39.201 $\pm$ 0.174  $\chi^2$ /NDF: 4550.1/30

All: 39.257 $\pm$ 0.123  $\chi^2$ /NDF: 8791.2/61

- sign 39.313 $\pm$ 0.173  $\chi^2$ /NDF: 4240.9/30

# 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:  $0.240 \pm 0.009$   $\chi^2/\text{NDF}$ : 214.6/13

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

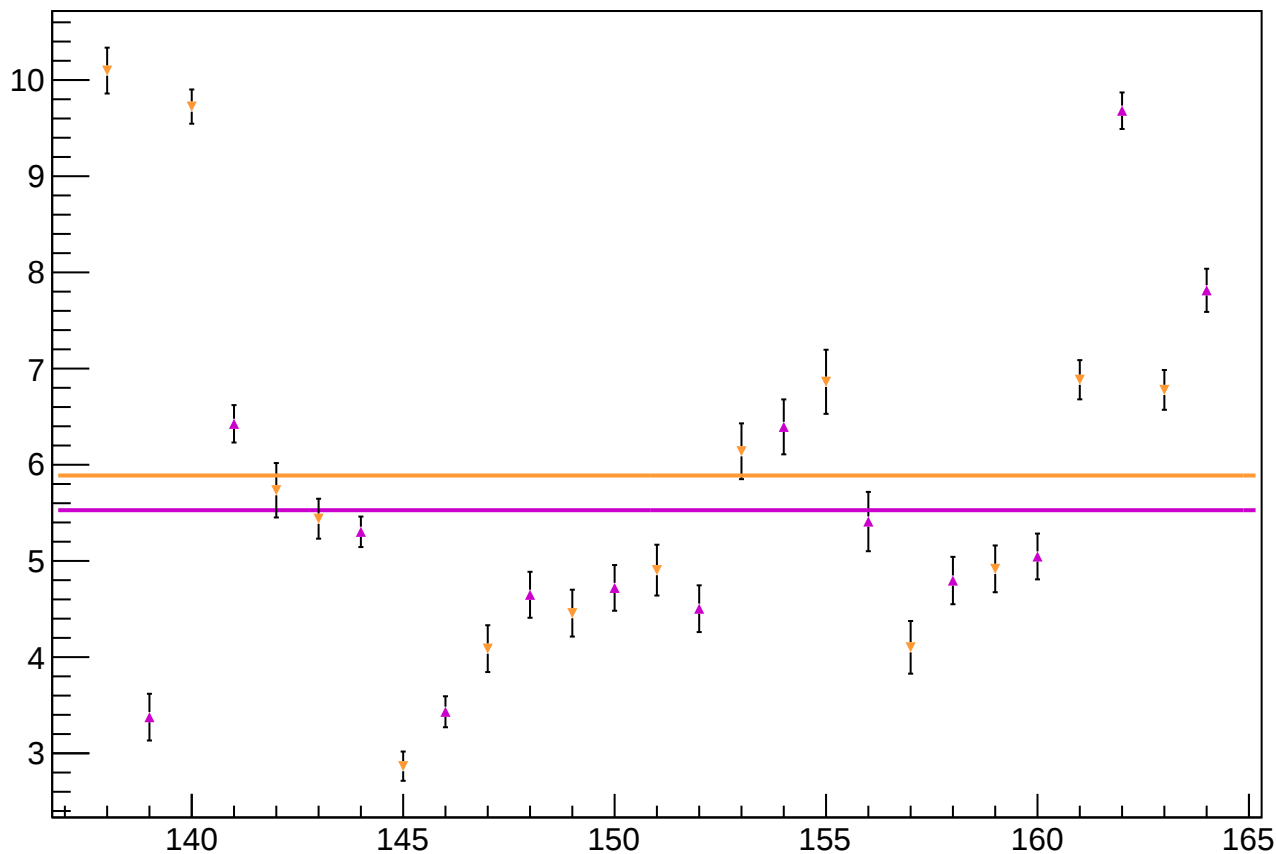
Left In:  $0.186 \pm 0.009$   $\chi^2/\text{NDF}$ : 279.3/12

+ sign  $0.175 \pm 0.008$   $\chi^2/\text{NDF}$ : 1681.2/30

All:  $0.143 \pm 0.006$   $\chi^2/\text{NDF}$ : 3794.0/61

- sign  $0.112 \pm 0.008$   $\chi^2/\text{NDF}$ : 2085.0/30

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: 5.888+/-0.060  $\chi^2/\text{NDF}$ :1388.9/13

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

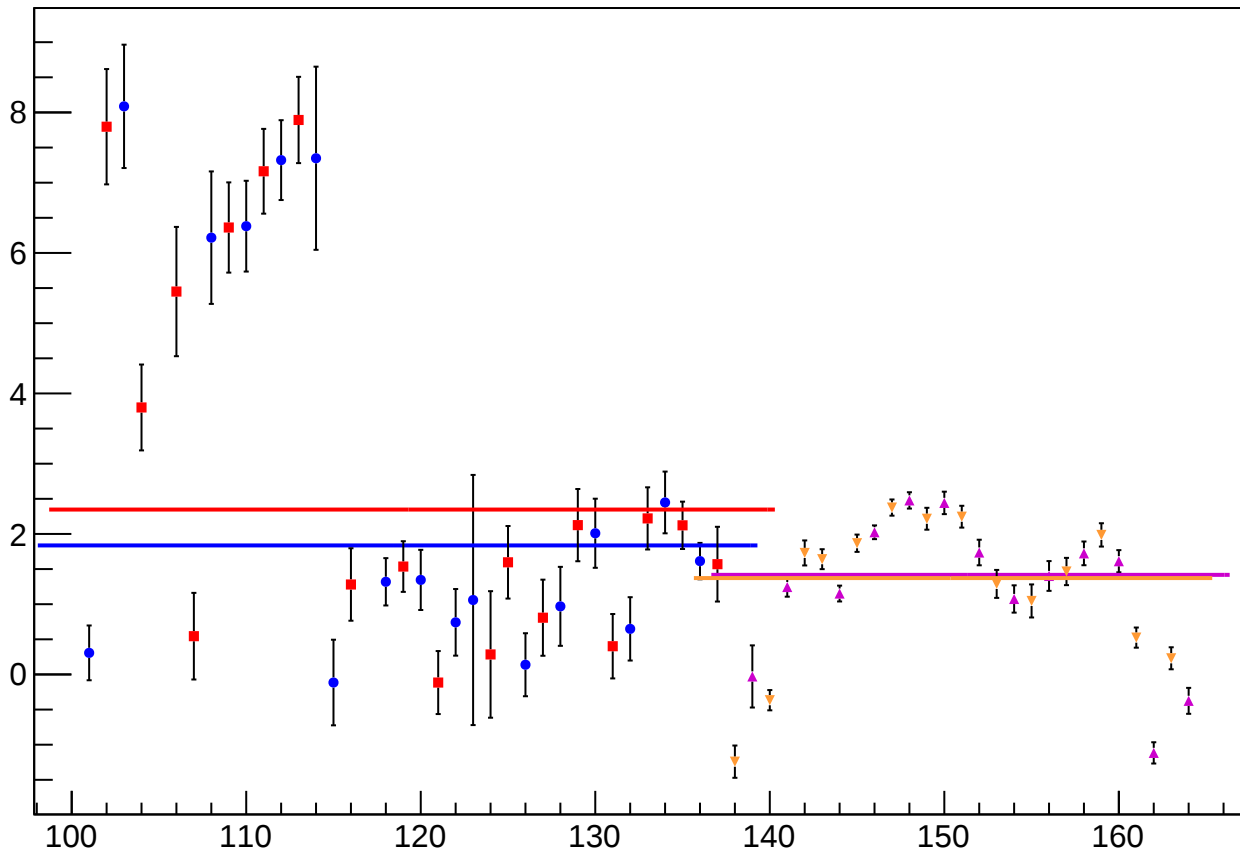
Left In: 5.527+/-0.060  $\chi^2/\text{NDF}$ :918.5/12

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

All: 5.707+/-0.043  $\chi^2/\text{NDF}$ : 2325.5/26

- 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:  $1.372 \pm 0.042$   $\chi^2/\text{NDF}$ : 539.6/13

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

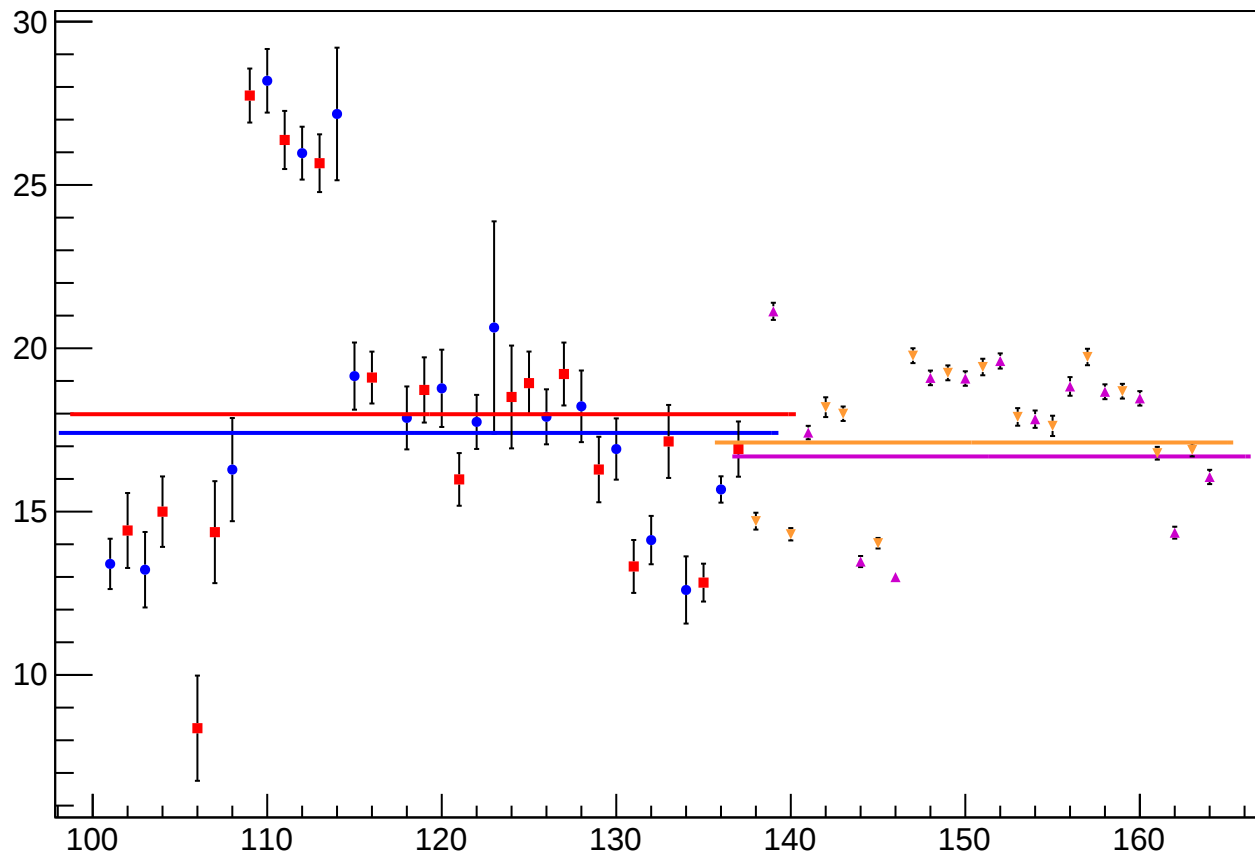
Left In:  $1.418 \pm 0.041$   $\chi^2/\text{NDF}$ : 566.2/12

+ sign  $1.425 \pm 0.039$   $\chi^2/\text{NDF}$ : 847.8/30

All:  $1.470 \pm 0.028$   $\chi^2/\text{NDF}$ : 1797.9/61

- sign  $1.513 \pm 0.039$   $\chi^2/\text{NDF}$ : 947.6/30

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $17.409 \pm 0.212$   $\chi^2/\text{NDF}: 365.1/16$

Left Out:  $17.116 \pm 0.060$   $\chi^2/\text{NDF}: 1178.3/13$

Right Out:  $17.982 \pm 0.219$   $\chi^2/\text{NDF}: 490.7/17$

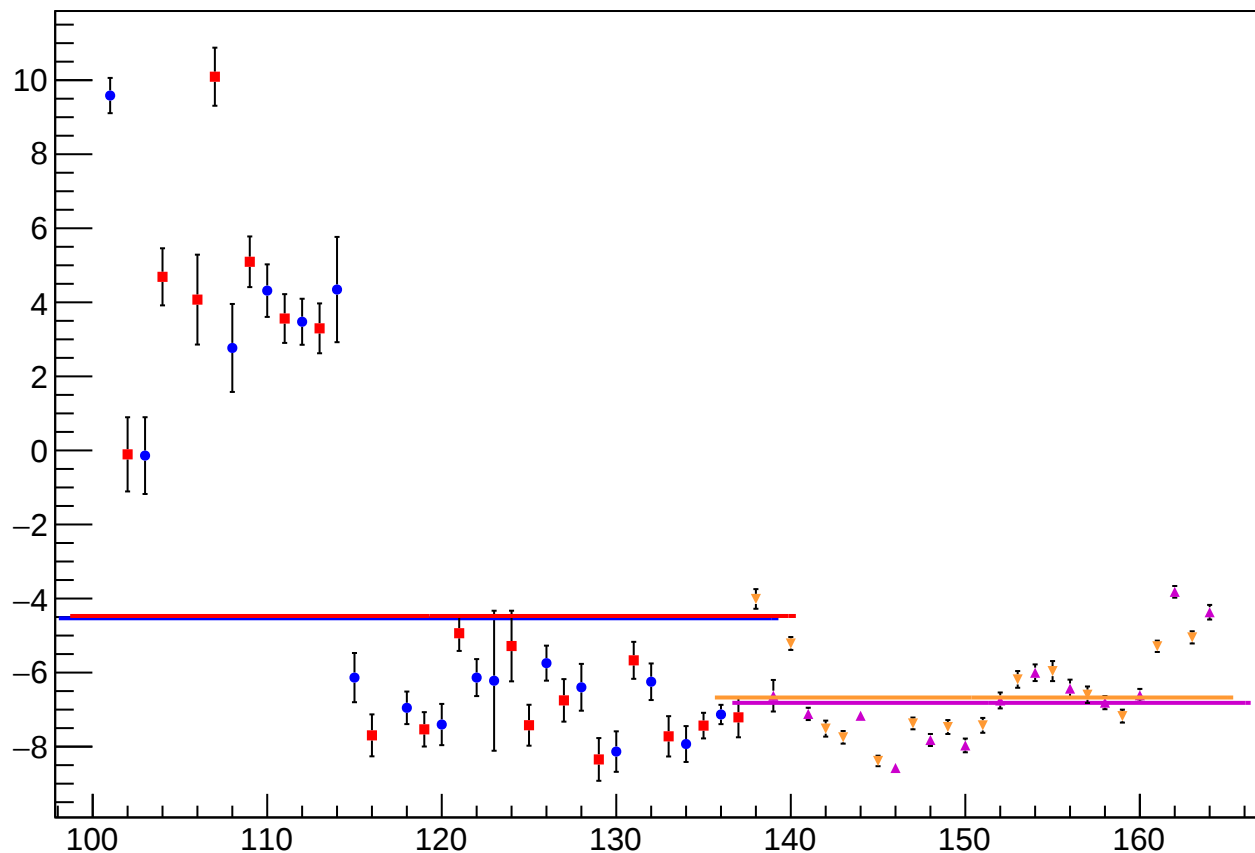
Left In:  $16.689 \pm 0.059$   $\chi^2/\text{NDF}: 2003.7/12$

+ sign  $17.138 \pm 0.058$   $\chi^2/\text{NDF}: 1545.1/30$

All:  $16.953 \pm 0.040$   $\chi^2/\text{NDF}: 4092.0/61$

- sign  $16.775 \pm 0.057$   $\chi^2/\text{NDF}: 2526.8/30$

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:  $-6.673 \pm 0.049$   $\chi^2/\text{NDF}$ : 620.5/13

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

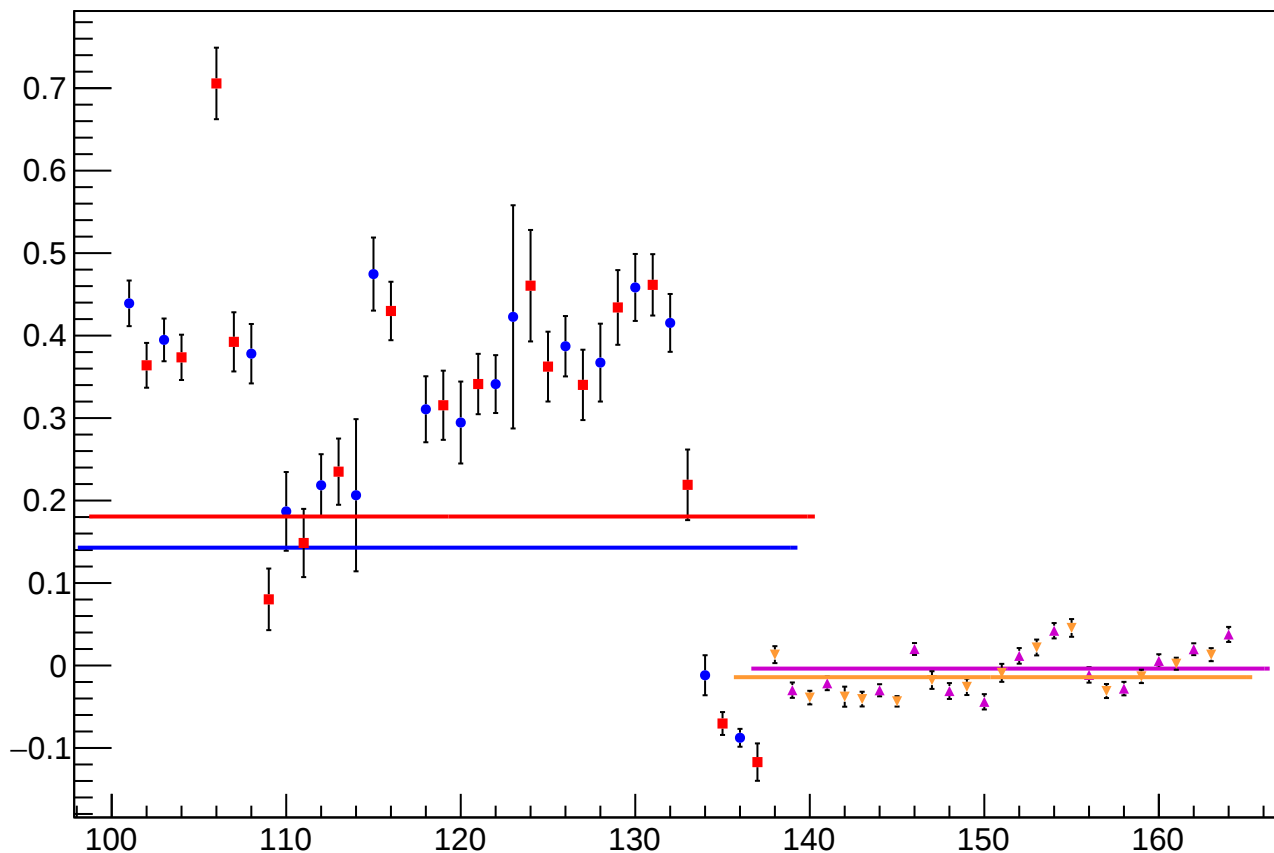
Left In:  $-6.818 \pm 0.049$   $\chi^2/\text{NDF}$ : 819.6/12

+ sign  $-6.402 \pm 0.046$   $\chi^2/\text{NDF}$ : 2446.8/30

All:  $-6.478 \pm 0.033$   $\chi^2/\text{NDF}$ : 4871.6/61

- sign  $-6.553 \pm 0.046$   $\chi^2/\text{NDF}$ : 2419.5/30

# reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.143 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1058.9/16

Left Out: -0.014 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 117.4/13

Right Out: 0.181 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1003.7/17

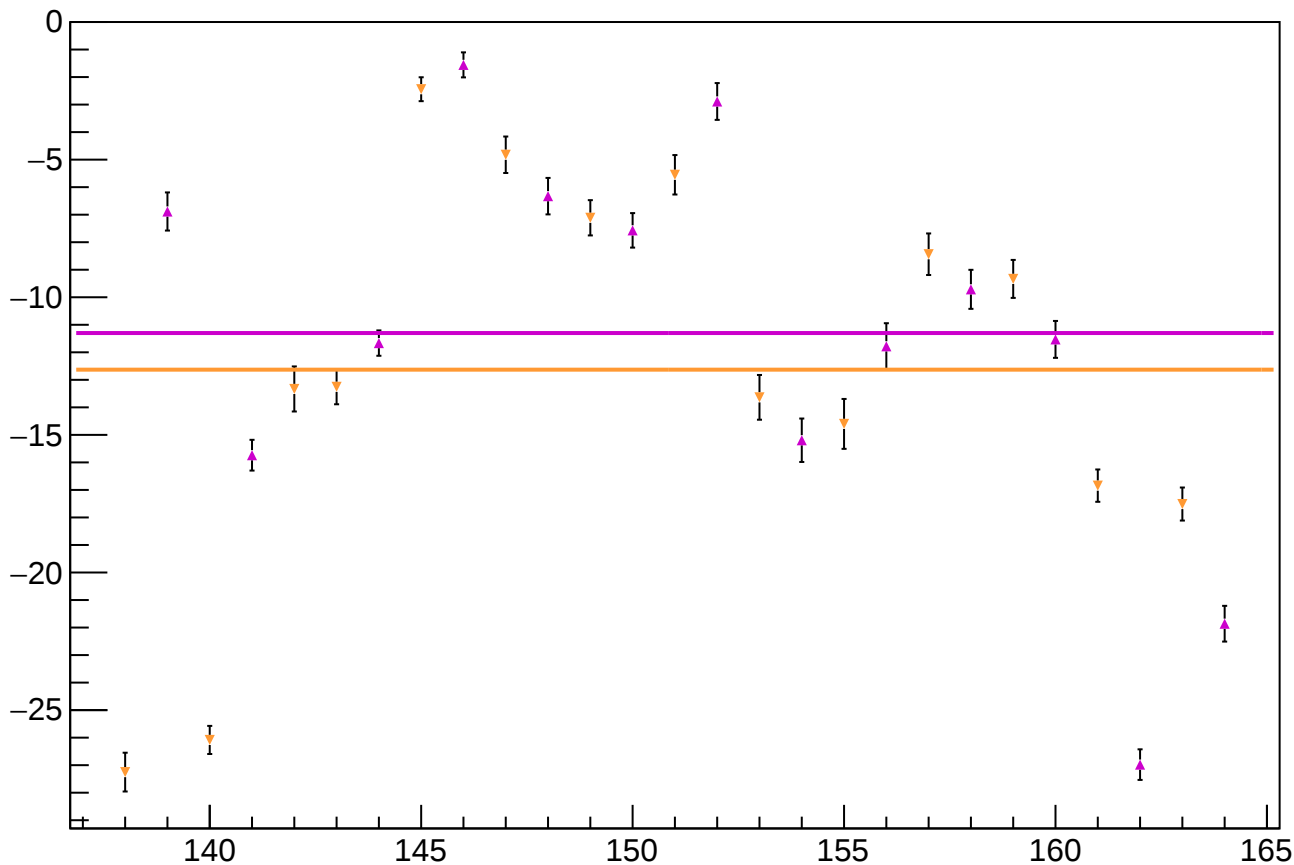
Left In: -0.004 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 131.8/12

+ sign 0.002 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 1621.7/30

All: 0.007 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 3333.9/61

- sign 0.013 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 1699.2/30

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: -12.630+/-0.171  $\chi^2/\text{NDF}$ : 2165.6/13

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

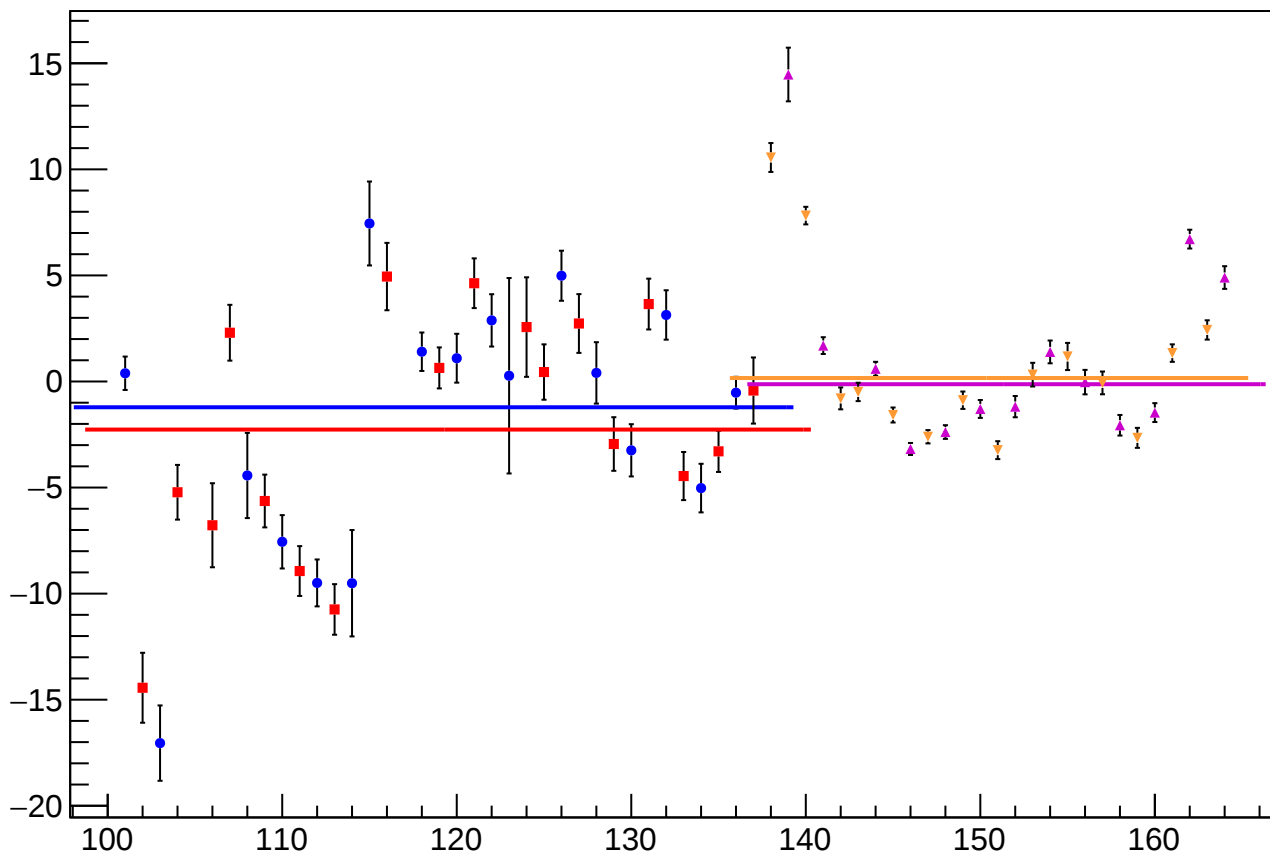
Left In: -11.300+/-0.170  $\chi^2/\text{NDF}$ : 1904.1/12

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

All: -11.958+/-0.121  $\chi^2/\text{NDF}$ : 4100.1/26

- 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:  $0.164 \pm 0.119$   $\chi^2/\text{NDF}$ : 825.3/13

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

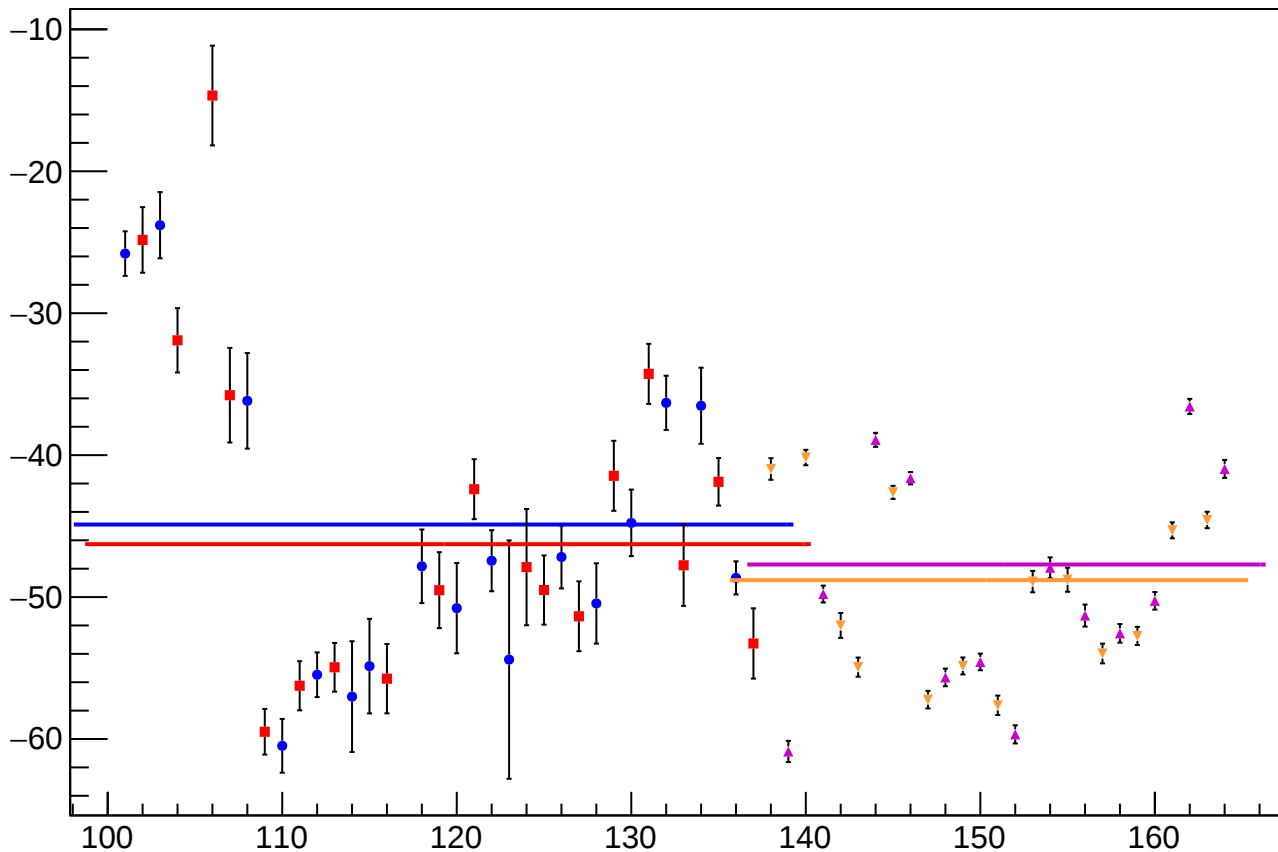
Left In:  $-0.128 \pm 0.118$   $\chi^2/\text{NDF}$ : 696.6/12

+ sign  $-0.034 \pm 0.110$   $\chi^2/\text{NDF}$ : 1123.4/30

All:  $-0.222 \pm 0.078$   $\chi^2/\text{NDF}$ : 2153.1/61

- sign  $-0.409 \pm 0.110$   $\chi^2/\text{NDF}$ : 1023.9/30

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: -48.807 $\pm$ 0.170  $\chi^2/\text{NDF}$ :1271.8/13

Right Out: -46.272 $\pm$ 0.530  $\chi^2/\text{NDF}$ : 420.5/17

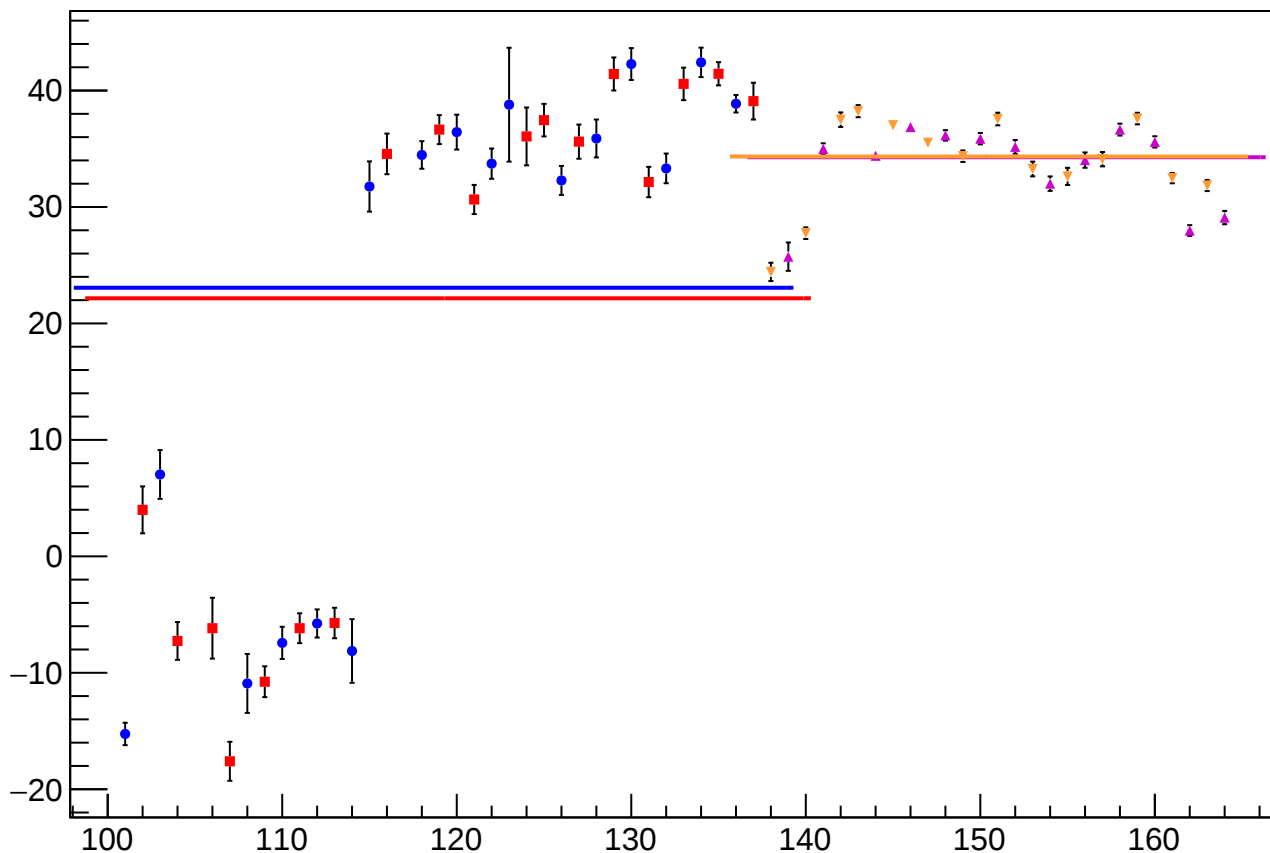
Left In: -47.705 $\pm$ 0.166  $\chi^2/\text{NDF}$ :2122.7/12

+ sign -48.433 $\pm$ 0.162  $\chi^2/\text{NDF}$ : 1743.0/30

All: -47.996 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 4307.2/61

- sign -47.577 $\pm$ 0.158  $\chi^2/\text{NDF}$ : 2549.9/30

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 23.066 $\pm$ 0.327  $\chi^2$ /NDF: 4333.5/16

Left Out: 34.335 $\pm$ 0.140  $\chi^2$ /NDF: 594.5/13

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

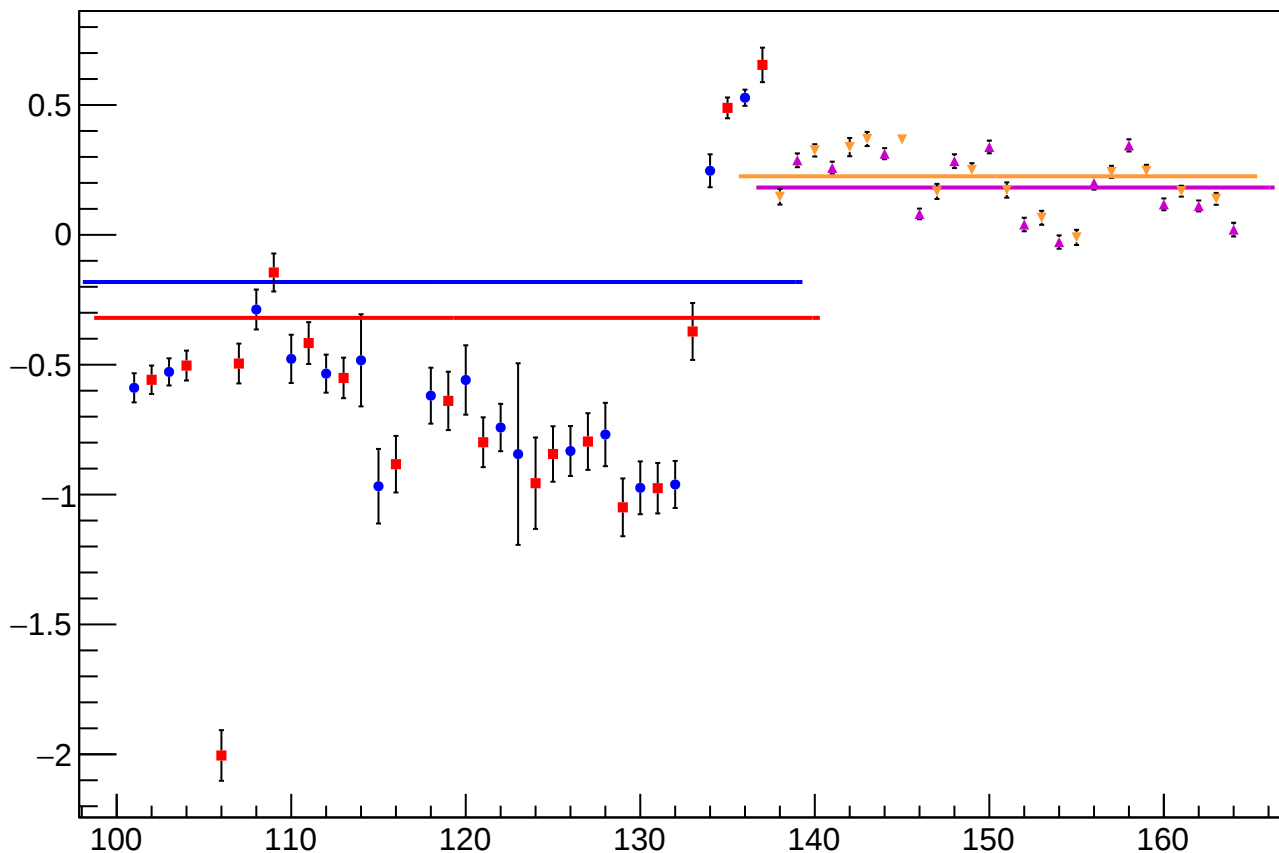
Left In: 34.273 $\pm$ 0.138  $\chi^2$ /NDF: 445.1/12

+ sign 32.589 $\pm$ 0.129  $\chi^2$ /NDF: 5934.5/30

All: 32.570 $\pm$ 0.091  $\chi^2$ /NDF: 11494.0/61

- sign 32.552 $\pm$ 0.128  $\chi^2$ /NDF: 5559.5/30

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:  $0.225 \pm 0.007$   $\chi^2/\text{NDF}$ : 255.3/13

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

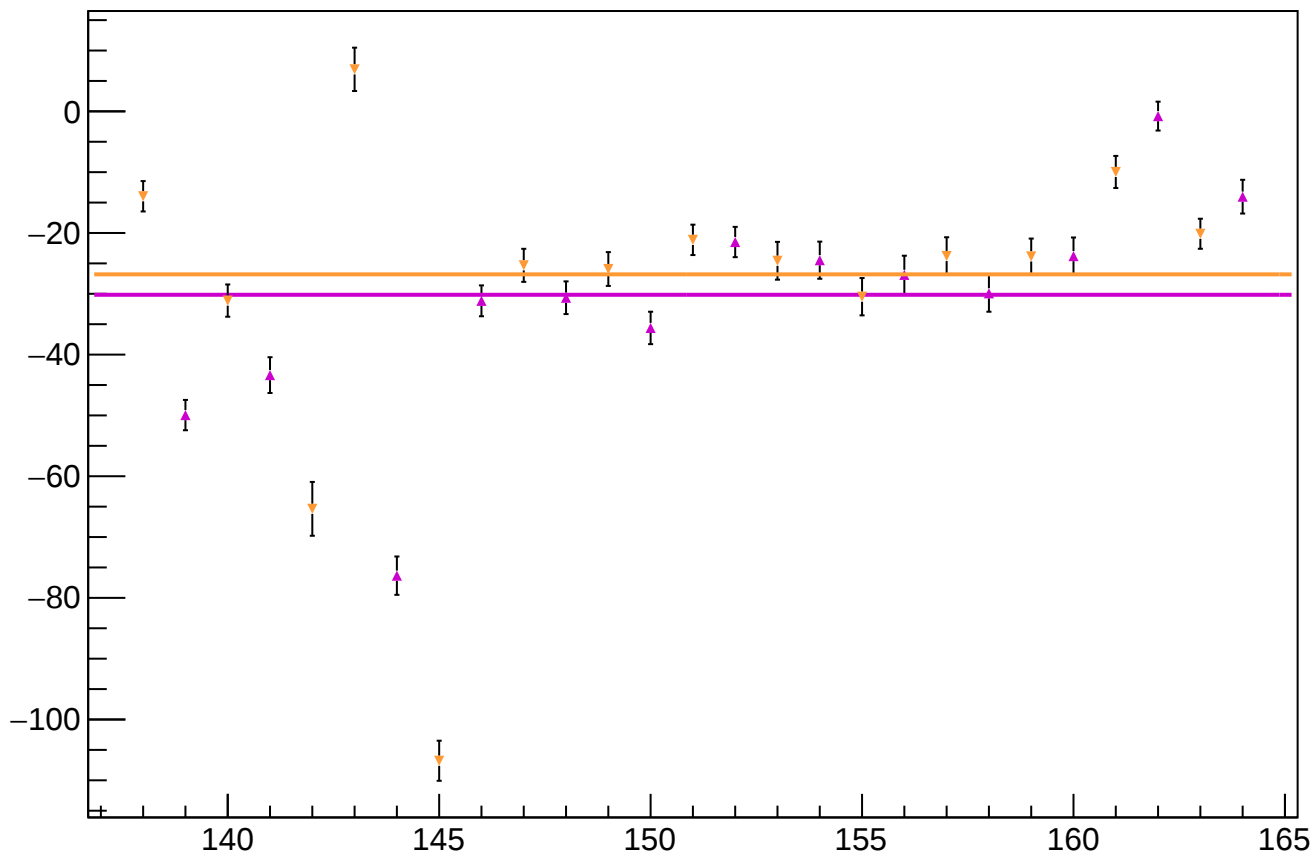
Left In:  $0.182 \pm 0.007$   $\chi^2/\text{NDF}$ : 344.2/12

+ sign  $0.175 \pm 0.006$   $\chi^2/\text{NDF}$ : 1712.8/30

All:  $0.149 \pm 0.004$   $\chi^2/\text{NDF}$ : 3938.4/61

- sign  $0.123 \pm 0.006$   $\chi^2/\text{NDF}$ : 2191.9/30

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



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

Left Out: -26.803+/-0.770  $\chi^2/\text{NDF}$ : 840.5/13

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

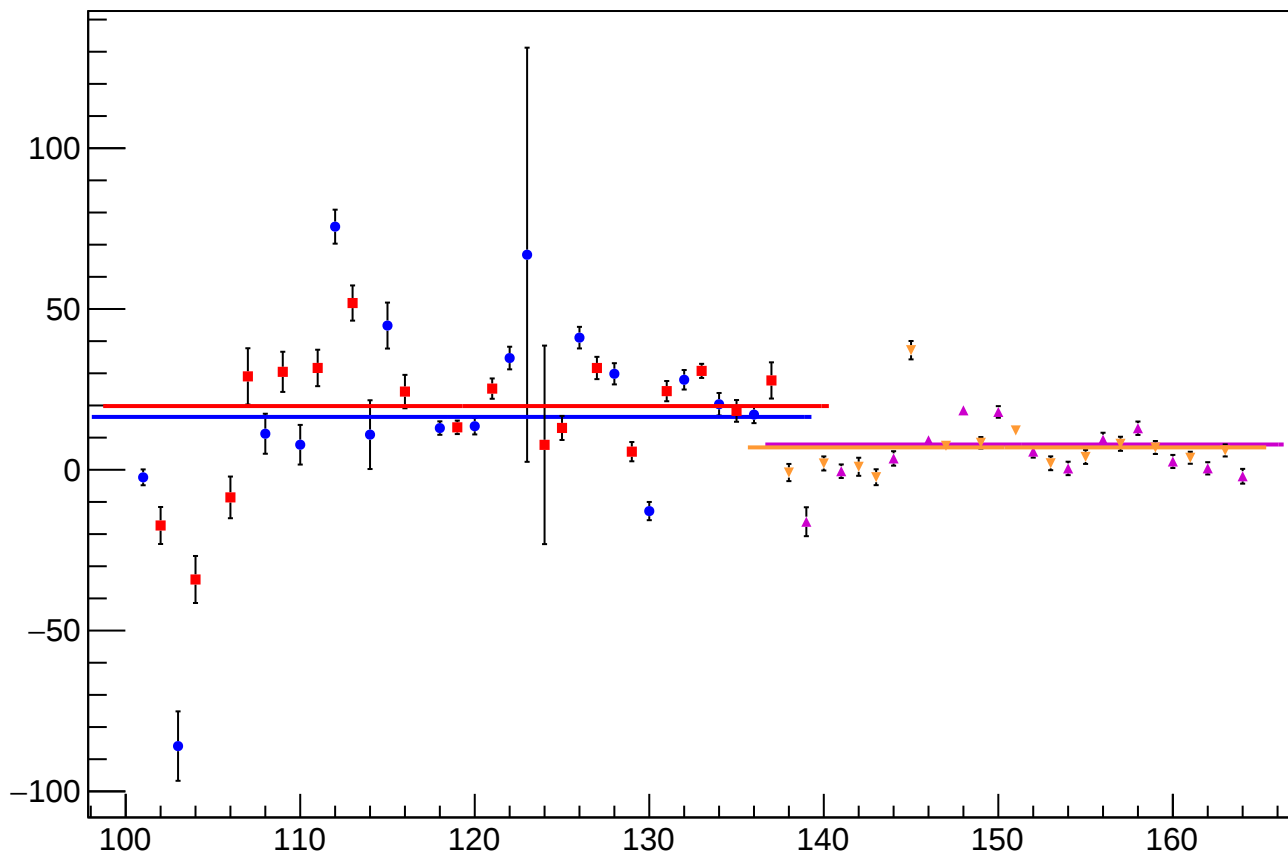
Left In: -30.162+/-0.766  $\chi^2/\text{NDF}$ : 509.9/12

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

All: -28.490+/-0.543  $\chi^2/\text{NDF}$ : 1360.0/26

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

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 16.439 $\pm$ 0.849  $\chi^2$ /NDF: 516.9/16

Left Out: 6.962 $\pm$ 0.525  $\chi^2$ /NDF: 169.6/13

Right Out: 19.813 $\pm$ 0.899  $\chi^2$ /NDF: 238.5/17

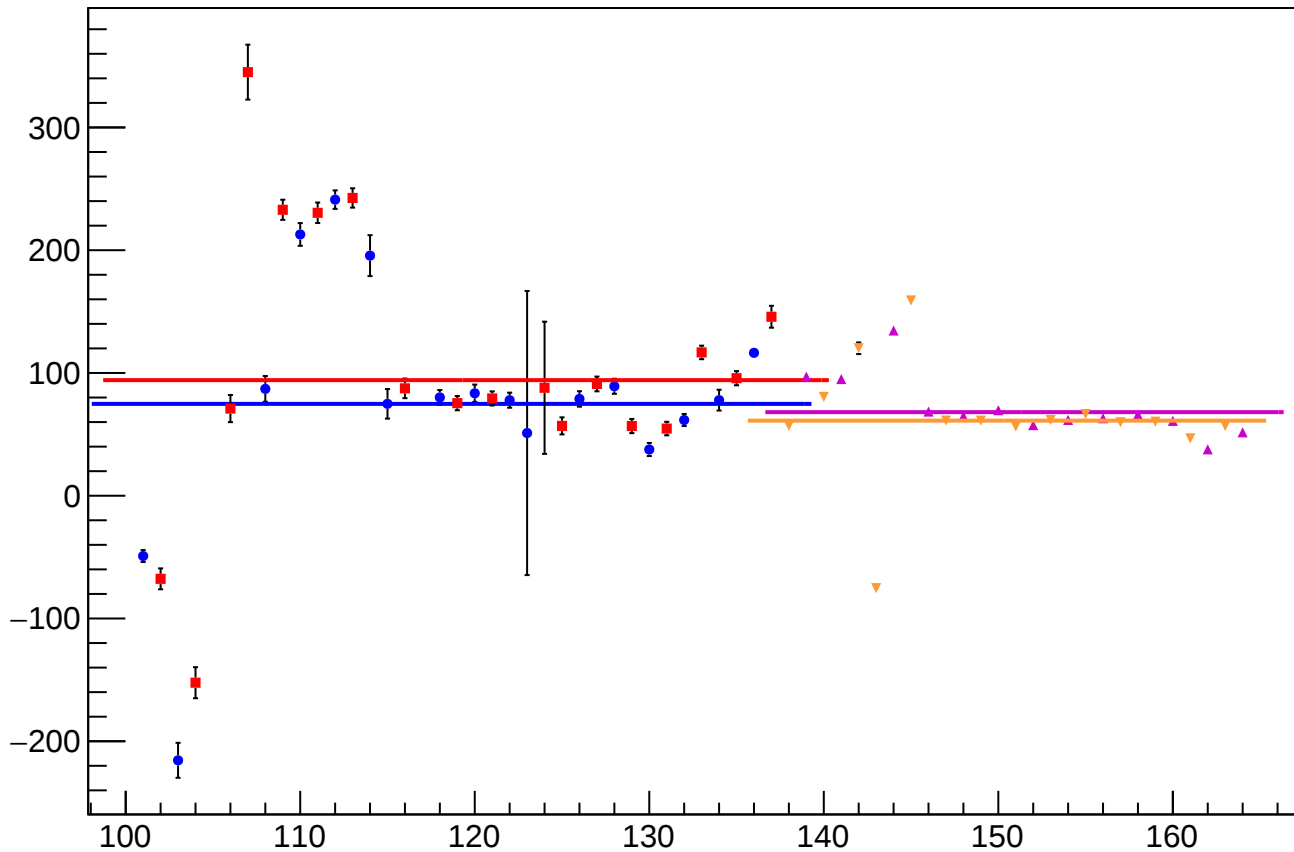
Left In: 7.862 $\pm$ 0.537  $\chi^2$ /NDF: 206.6/12

+ sign 9.588 $\pm$ 0.447  $\chi^2$ /NDF: 776.7/30

All: 10.272 $\pm$ 0.321  $\chi^2$ /NDF: 1356.9/61

- sign 11.000 $\pm$ 0.461  $\chi^2$ /NDF: 575.3/30

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In:  $74.824 \pm 1.639$   $\chi^2/\text{NDF}: 1996.8/16$

Left Out:  $61.164 \pm 0.751$   $\chi^2/\text{NDF}: 2353.6/13$

Right Out:  $94.153 \pm 1.720$   $\chi^2/\text{NDF}: 1969.2/17$

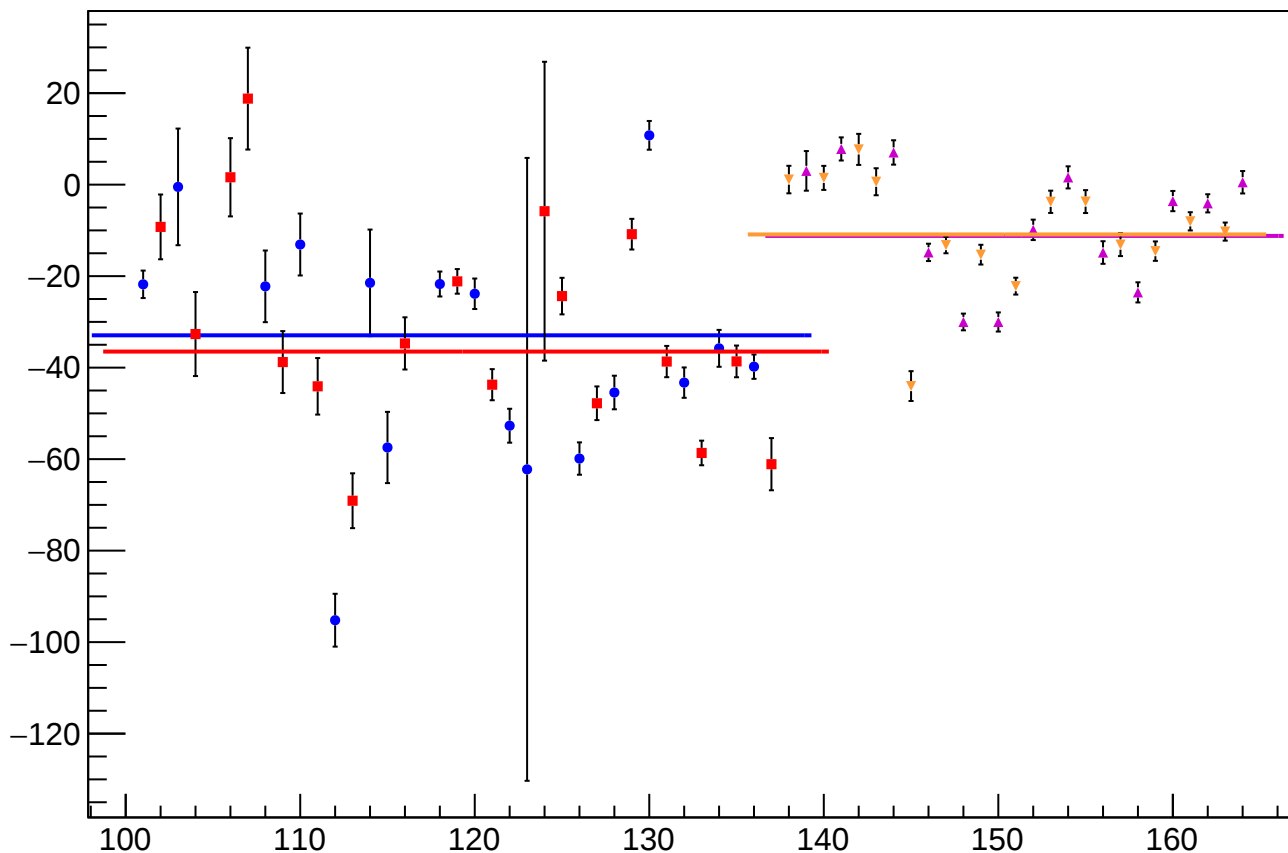
Left In:  $68.093 \pm 0.743$   $\chi^2/\text{NDF}: 826.9/12$

+ sign  $63.536 \pm 0.683$   $\chi^2/\text{NDF}: 4407.9/30$

All:  $67.868 \pm 0.483$   $\chi^2/\text{NDF}: 7477.8/61$

- sign  $72.190 \pm 0.682$   $\chi^2/\text{NDF}: 2989.6/30$

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-10.887 \pm 0.621$   $\chi^2/\text{NDF}$ : 252.9/13

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

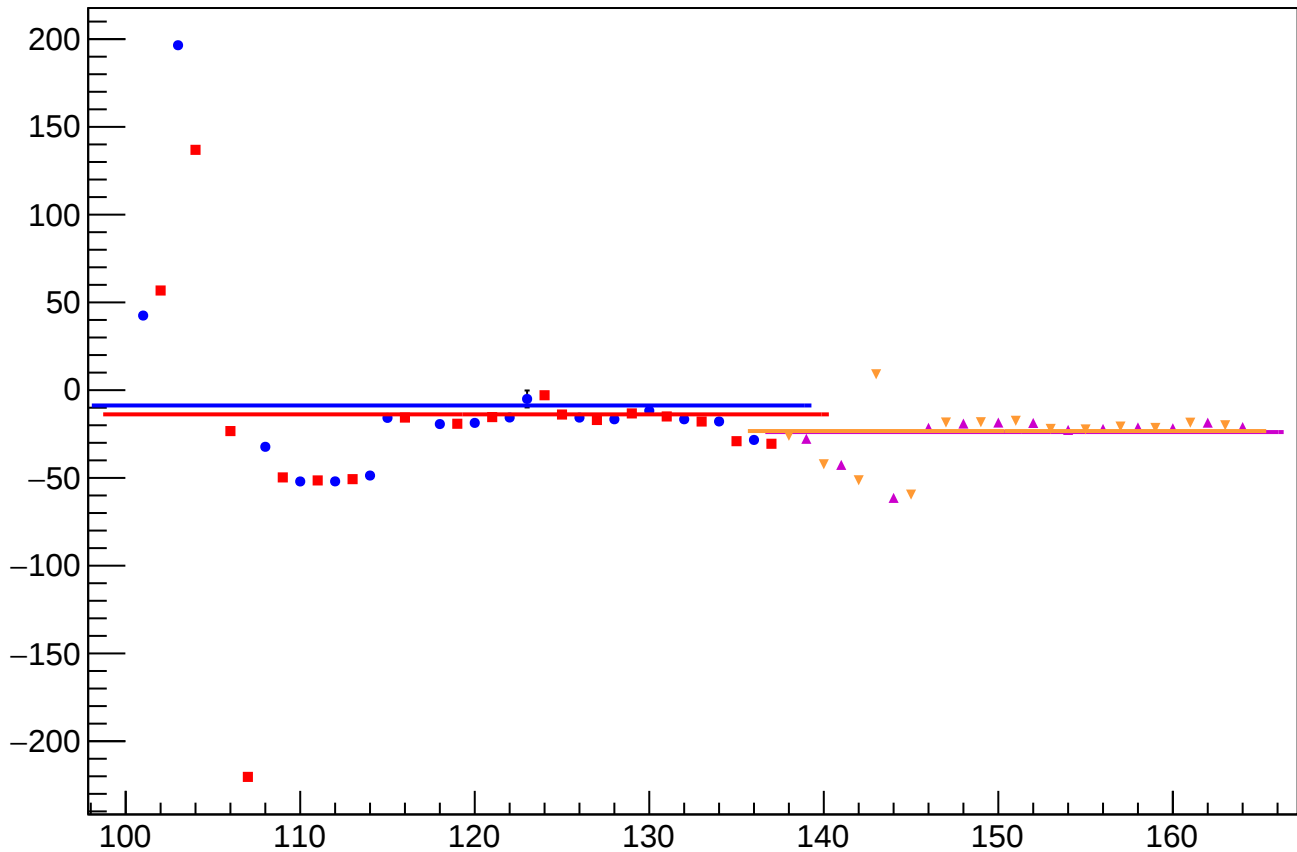
Left In:  $-11.206 \pm 0.630$   $\chi^2/\text{NDF}$ : 414.3/12

+ sign  $-17.266 \pm 0.523$   $\chi^2/\text{NDF}$ : 1108.3/30

All:  $-17.679 \pm 0.375$   $\chi^2/\text{NDF}$ : 2257.7/61

- sign  $-18.114 \pm 0.537$   $\chi^2/\text{NDF}$ : 1148.2/30

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-23.297 \pm 0.029$   $\chi^2/\text{NDF}: 174689.2/13$

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}: 549380.2/17$

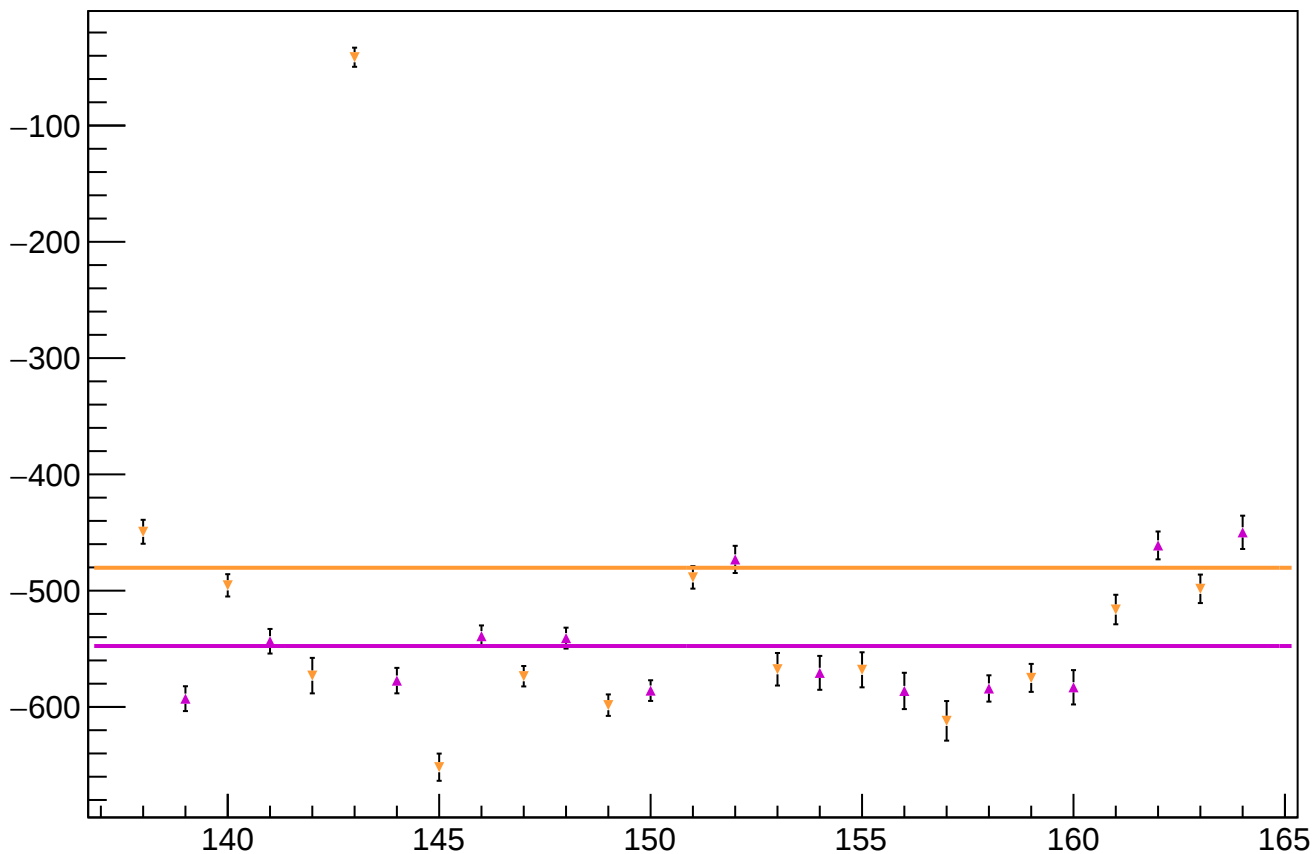
Left In:  $-23.877 \pm 0.029$   $\chi^2/\text{NDF}: 101888.4/12$

+ sign  $-20.393 \pm 0.026$   $\chi^2/\text{NDF}: 799606.9/30$

All:  $-21.227 \pm 0.019$   $\chi^2/\text{NDF}: 1474527.3/61$

- sign  $-22.065 \pm 0.026$   $\chi^2/\text{NDF}: 672899.9/30$

# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



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

Left Out: -480.303 +/- 2.952  $\chi^2/\text{NDF}$ : 3594.5/13

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

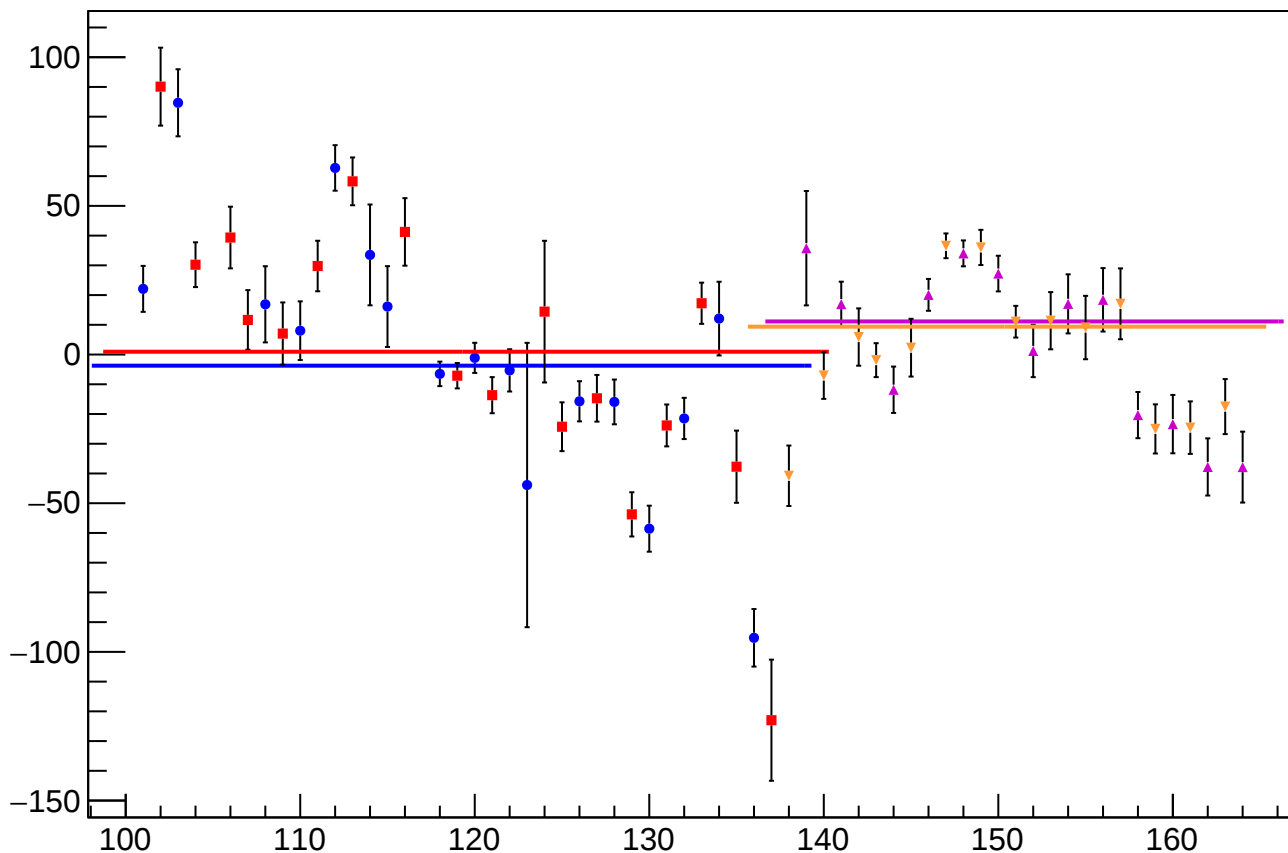
Left In: -547.598 +/- 3.113  $\chi^2/\text{NDF}$ : 209.7/12

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

All: -512.165 +/- 2.142  $\chi^2/\text{NDF}$ : 4050.2/26

- 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:  $9.376 \pm 1.941$   $\chi^2/\text{NDF}$ : 137.4/13

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

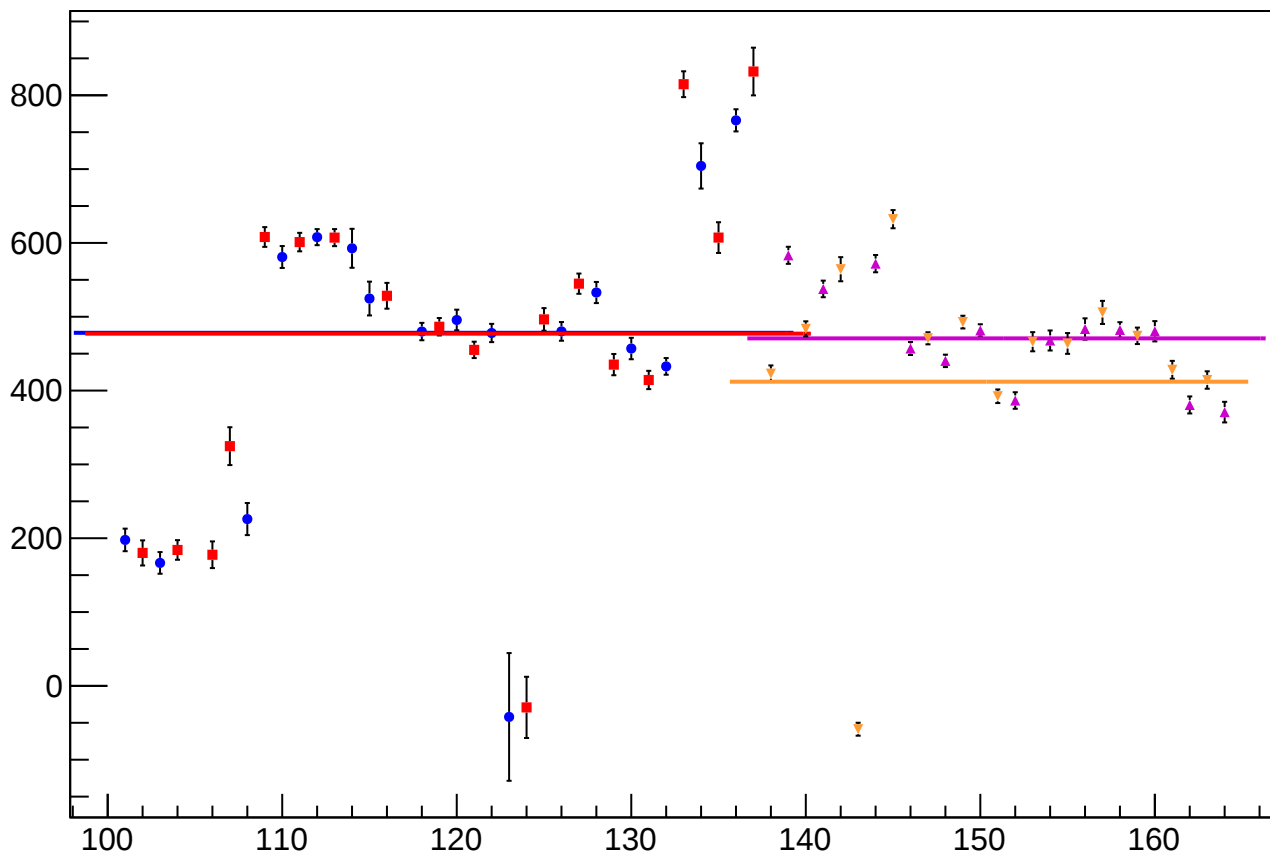
Left In:  $11.133 \pm 2.091$   $\chi^2/\text{NDF}$ : 122.2/12

+ sign  $2.647 \pm 1.355$   $\chi^2/\text{NDF}$ : 474.9/30

All:  $4.062 \pm 0.978$   $\chi^2/\text{NDF}$ : 906.0/61

- sign  $5.602 \pm 1.413$   $\chi^2/\text{NDF}$ : 428.8/30

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 412.031 $\pm$ 2.910  $\chi^2$ /NDF: 3578.9/13

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

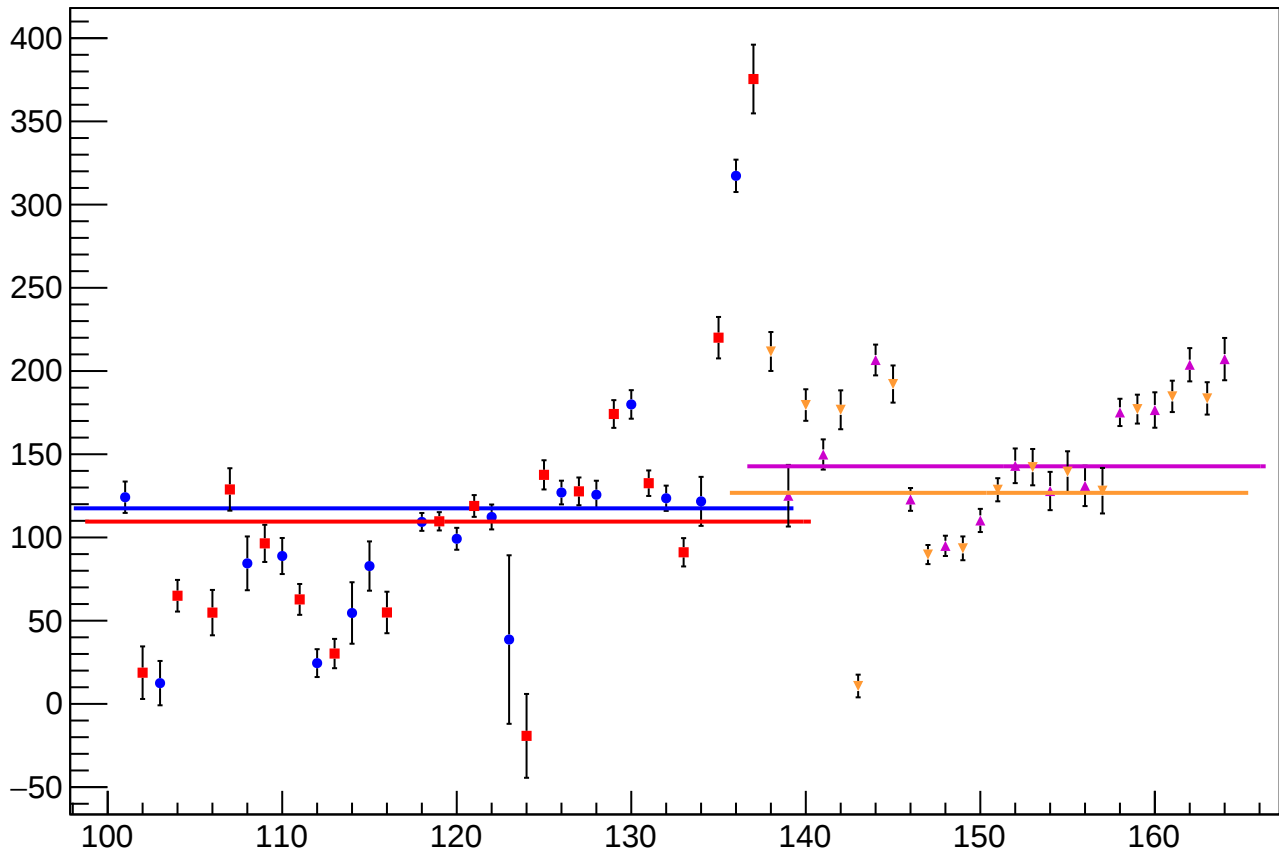
Left In: 470.693 $\pm$ 3.023  $\chi^2$ /NDF: 393.4/12

+ sign 437.878 $\pm$ 2.273  $\chi^2$ /NDF: 5408.9/30

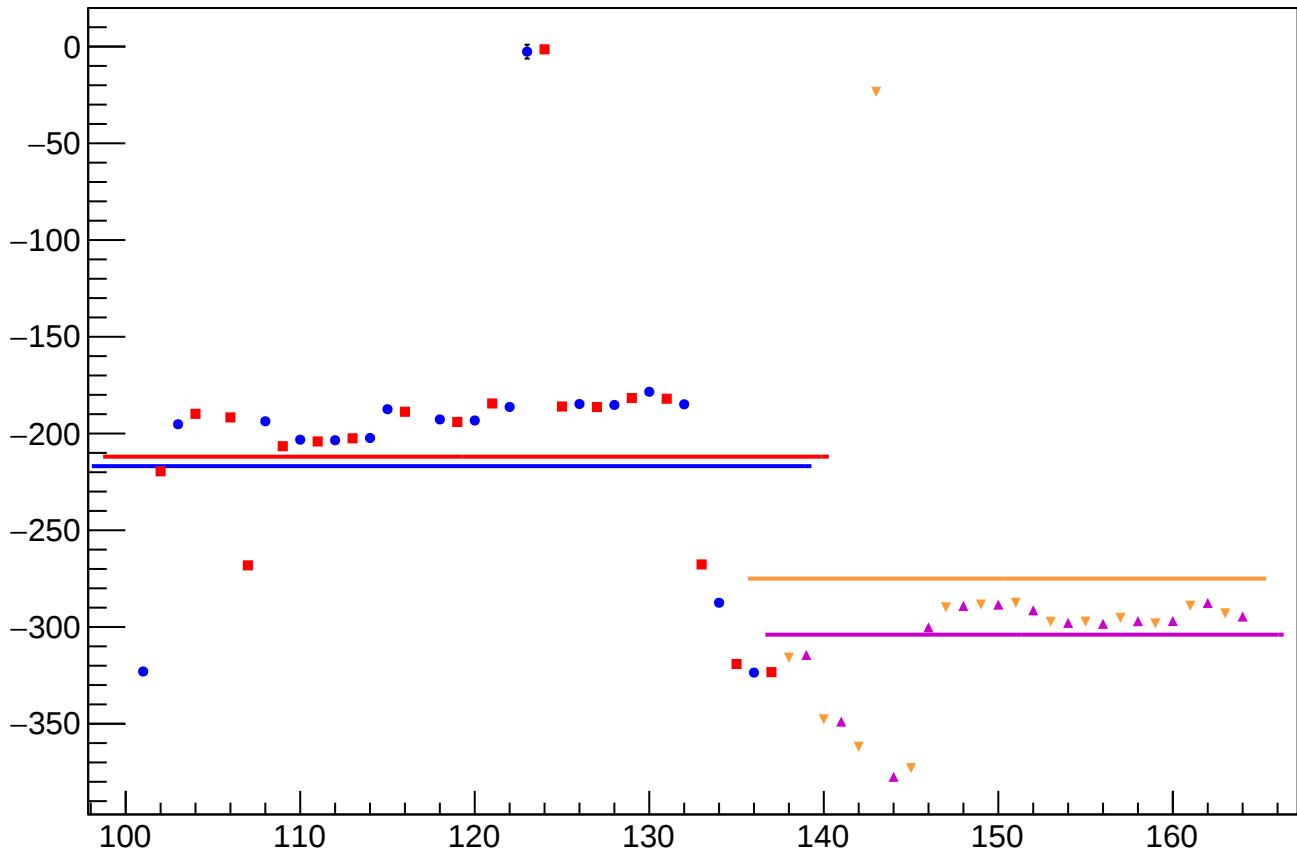
All: 455.429 $\pm$ 1.616  $\chi^2$ /NDF: 8100.7/61

- sign 473.394 $\pm$ 2.299  $\chi^2$ /NDF: 2571.1/30

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}$ : 146927.1/16

Left Out:  $-274.983 \pm 0.117$   $\chi^2/\text{NDF}$ : 618753.8/13

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}$ : 112091.8/17

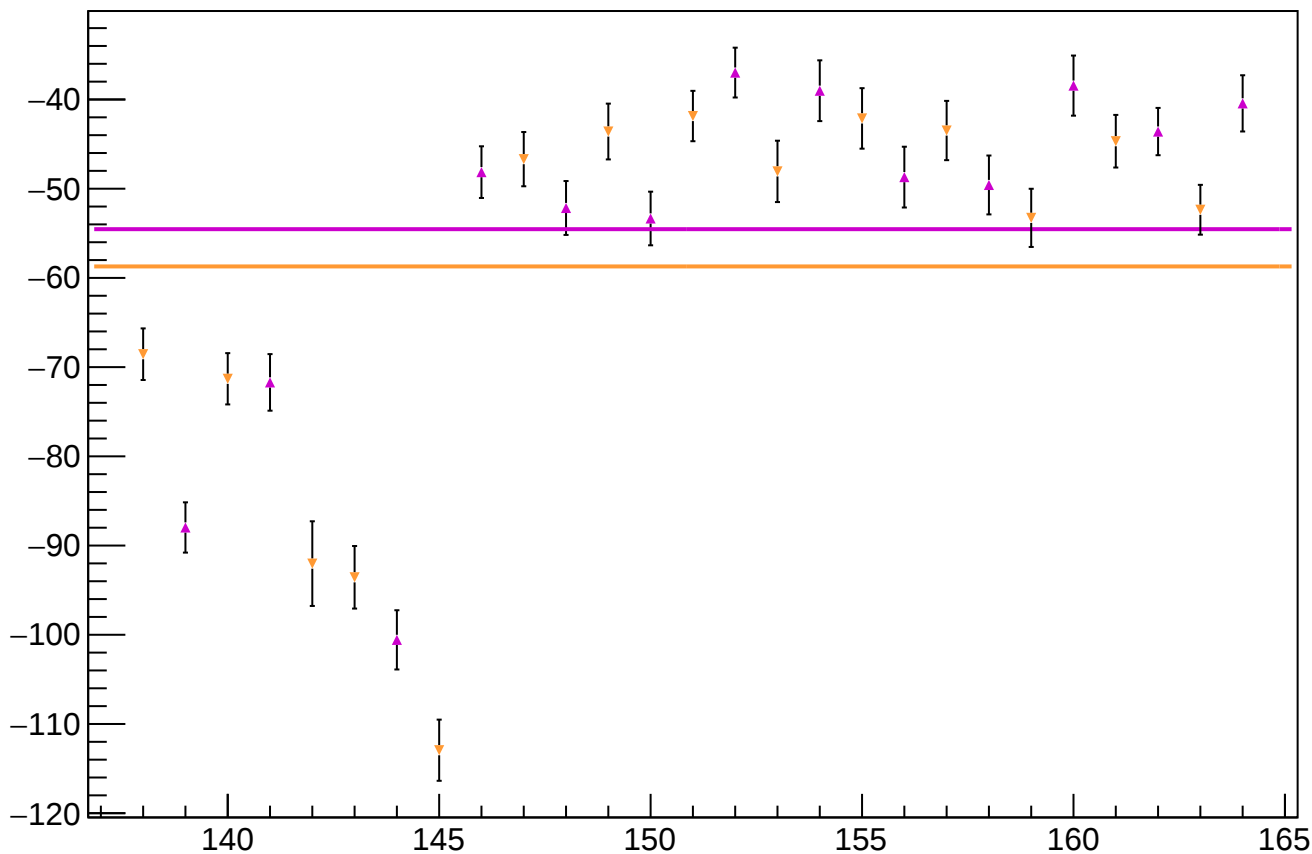
Left In:  $-303.958 \pm 0.121$   $\chi^2/\text{NDF}$ : 37843.5/12

+ sign  $-250.210 \pm 0.089$   $\chi^2/\text{NDF}$ : 870723.9/30

All:  $-255.945 \pm 0.063$   $\chi^2/\text{NDF}$ : 1296882.3/61

- sign  $-261.667 \pm 0.089$   $\chi^2/\text{NDF}$ : 417803.8/30

# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



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

Left Out: -58.713+/-0.849  $\chi^2/\text{NDF}$ : 588.9/13

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

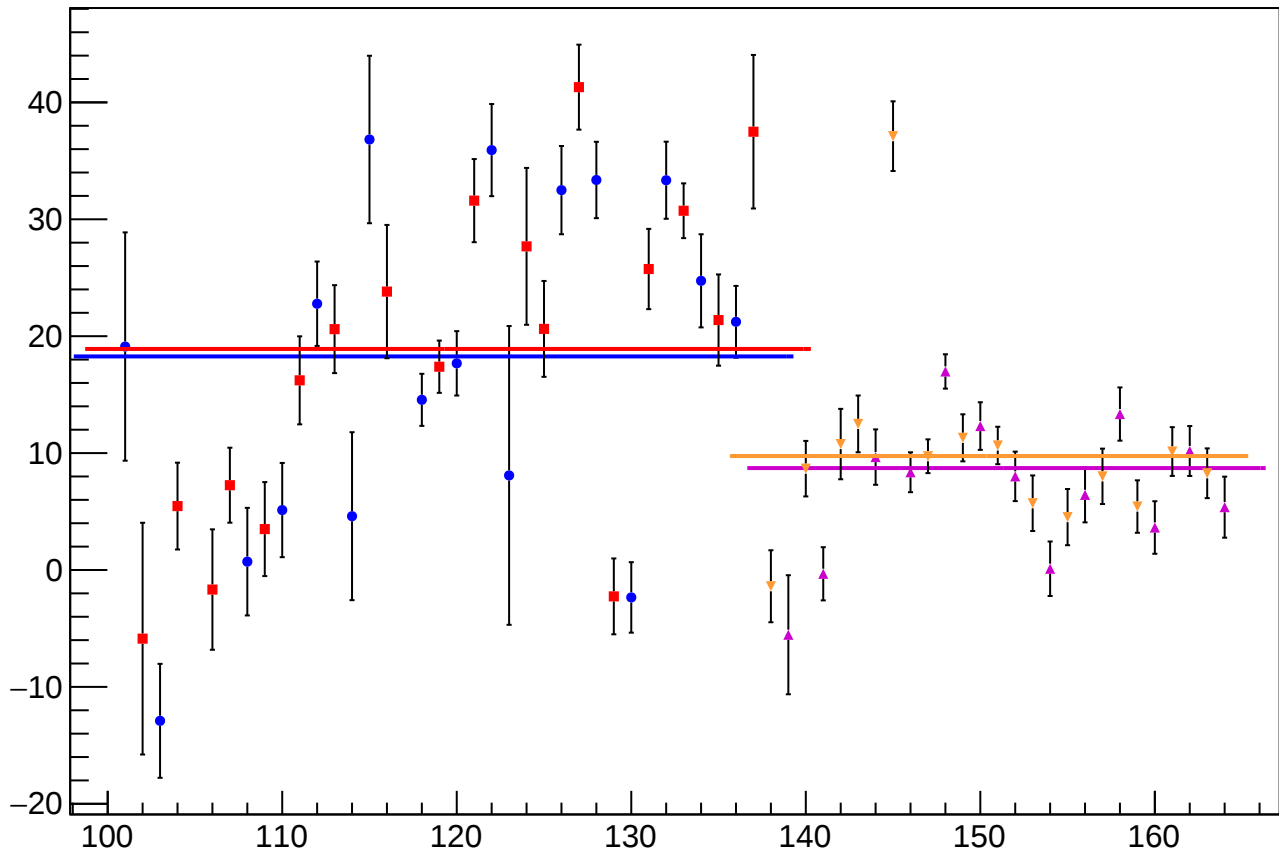
Left In: -54.537+/-0.852  $\chi^2/\text{NDF}$ : 493.4/12

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

All: -56.631+/-0.601  $\chi^2/\text{NDF}$ : 1094.3/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $9.747 \pm 0.580$   $\chi^2/\text{NDF}$ : 112.2/13

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

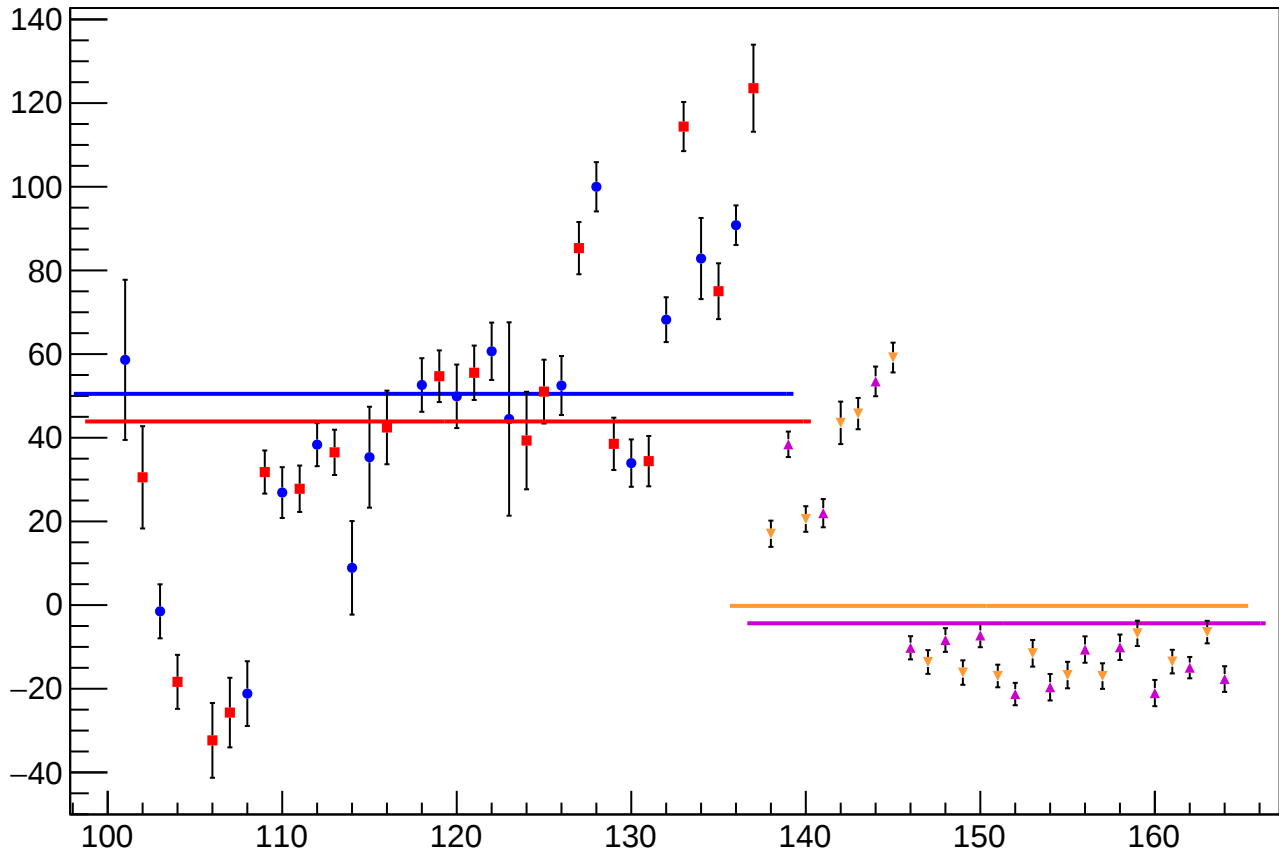
Left In:  $8.719 \pm 0.597$   $\chi^2/\text{NDF}$ : 84.7/12

+ sign  $12.224 \pm 0.489$   $\chi^2/\text{NDF}$ : 383.2/30

All:  $12.119 \pm 0.347$   $\chi^2/\text{NDF}$ : 760.1/61

- sign  $12.013 \pm 0.491$   $\chi^2/\text{NDF}$ : 376.9/30

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In:  $50.497 \pm 1.671$   $\chi^2/\text{NDF}$ : 363.2/16

Left Out:  $-0.193 \pm 0.830$   $\chi^2/\text{NDF}$ : 772.4/13

Right Out:  $43.895 \pm 1.604$   $\chi^2/\text{NDF}$ : 531.7/17

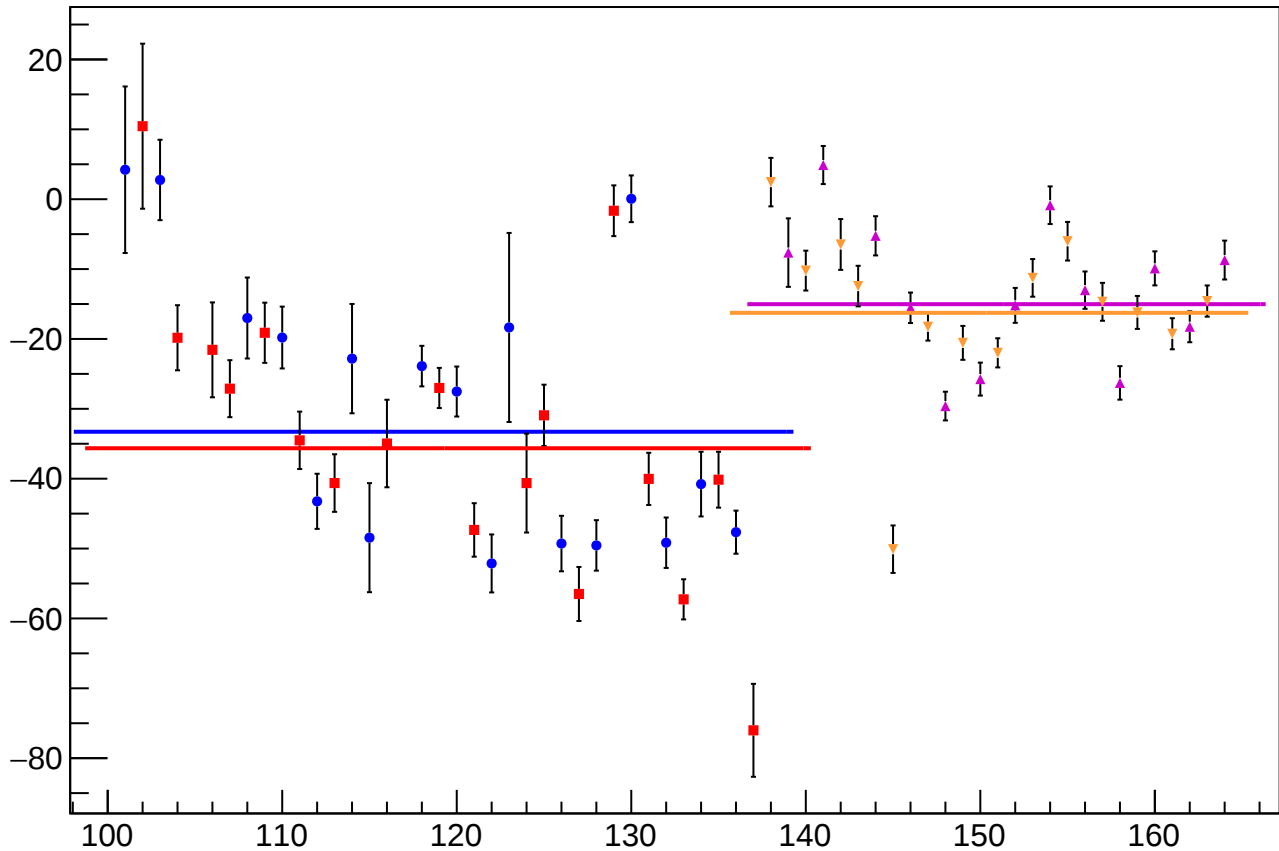
Left In:  $-4.354 \pm 0.826$   $\chi^2/\text{NDF}$ : 665.7/12

+ sign  $9.832 \pm 0.743$   $\chi^2/\text{NDF}$ : 1874.0/30

All:  $7.776 \pm 0.522$   $\chi^2/\text{NDF}$ : 3801.8/61

- sign  $5.767 \pm 0.734$   $\chi^2/\text{NDF}$ : 1912.7/30

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-16.262 \pm 0.686$   $\chi^2/\text{NDF}$ : 173.3/13

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

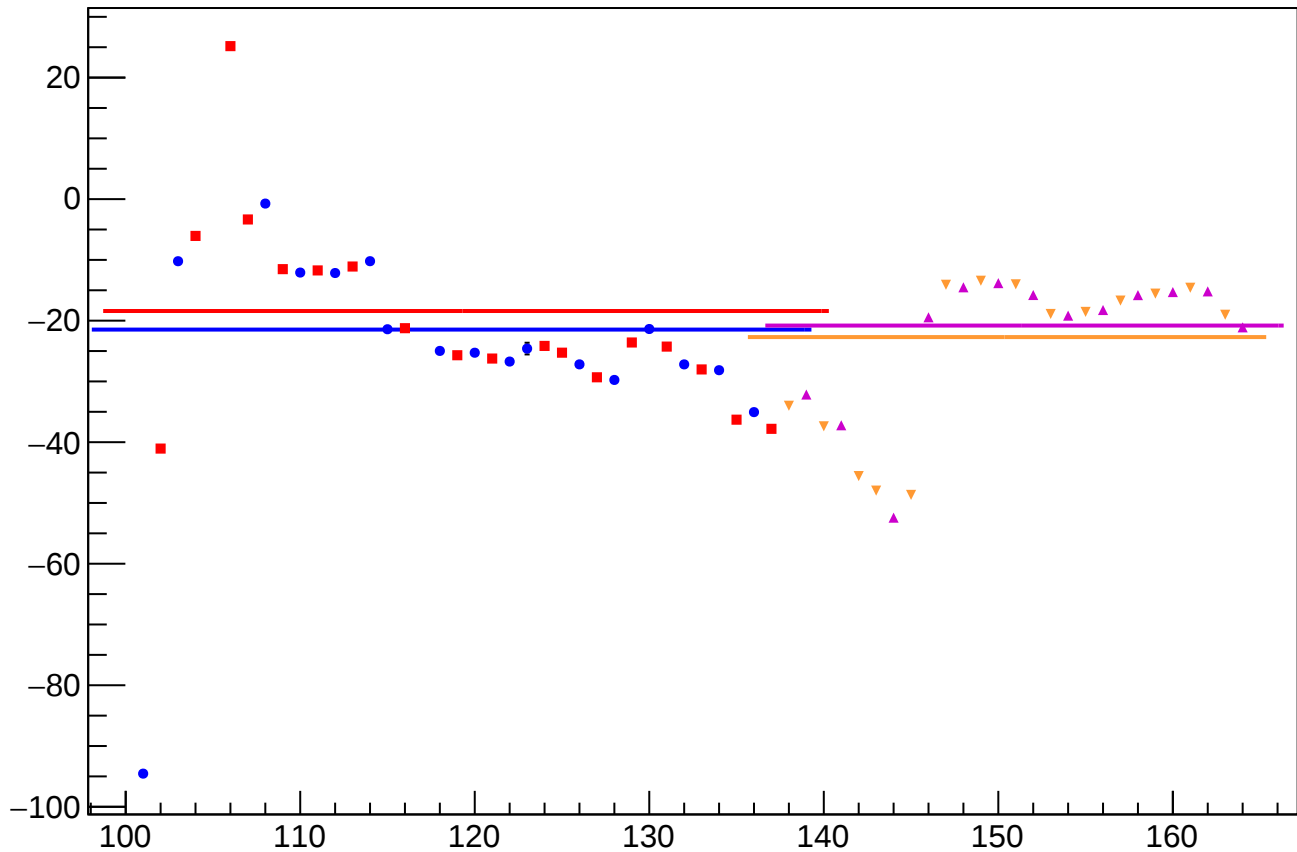
Left In:  $-15.022 \pm 0.700$   $\chi^2/\text{NDF}$ : 200.8/12

+ sign  $-21.457 \pm 0.572$   $\chi^2/\text{NDF}$ : 654.1/30

All:  $-21.662 \pm 0.404$   $\chi^2/\text{NDF}$ : 1428.1/61

- sign  $-21.867 \pm 0.572$   $\chi^2/\text{NDF}$ : 773.7/30

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}: 48979.5/16$

Left Out:  $-22.703 \pm 0.032$   $\chi^2/\text{NDF}: 128216.5/13$

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}: 77587.3/17$

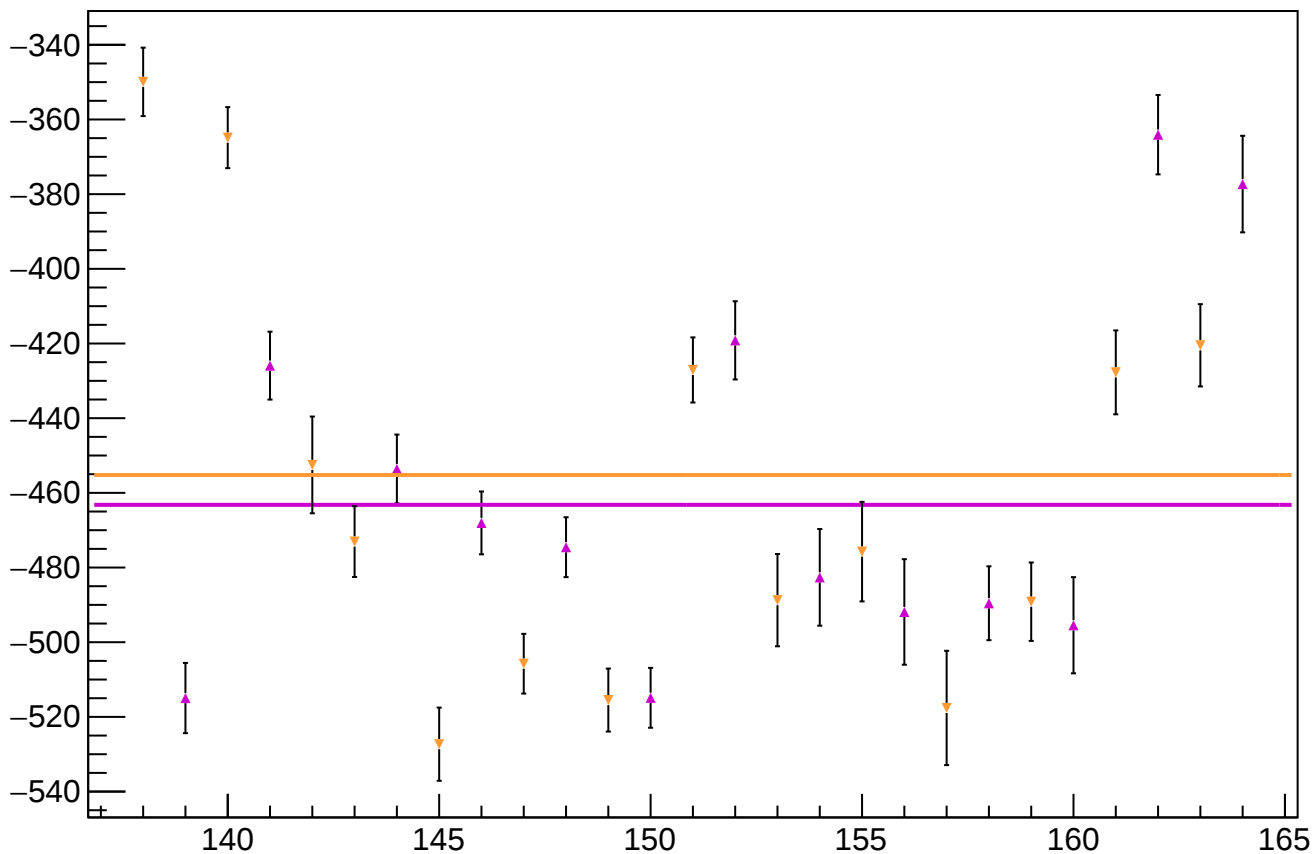
Left In:  $-20.806 \pm 0.032$   $\chi^2/\text{NDF}: 83952.5/12$

+ sign  $-22.415 \pm 0.028$   $\chi^2/\text{NDF}: 177534.3/30$

All:  $-21.313 \pm 0.020$   $\chi^2/\text{NDF}: 343385.7/61$

- sign  $-20.230 \pm 0.028$   $\chi^2/\text{NDF}: 162863.1/30$

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



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

Left Out: -455.214+/-2.683  $\chi^2/\text{NDF}$ : 465.9/13

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

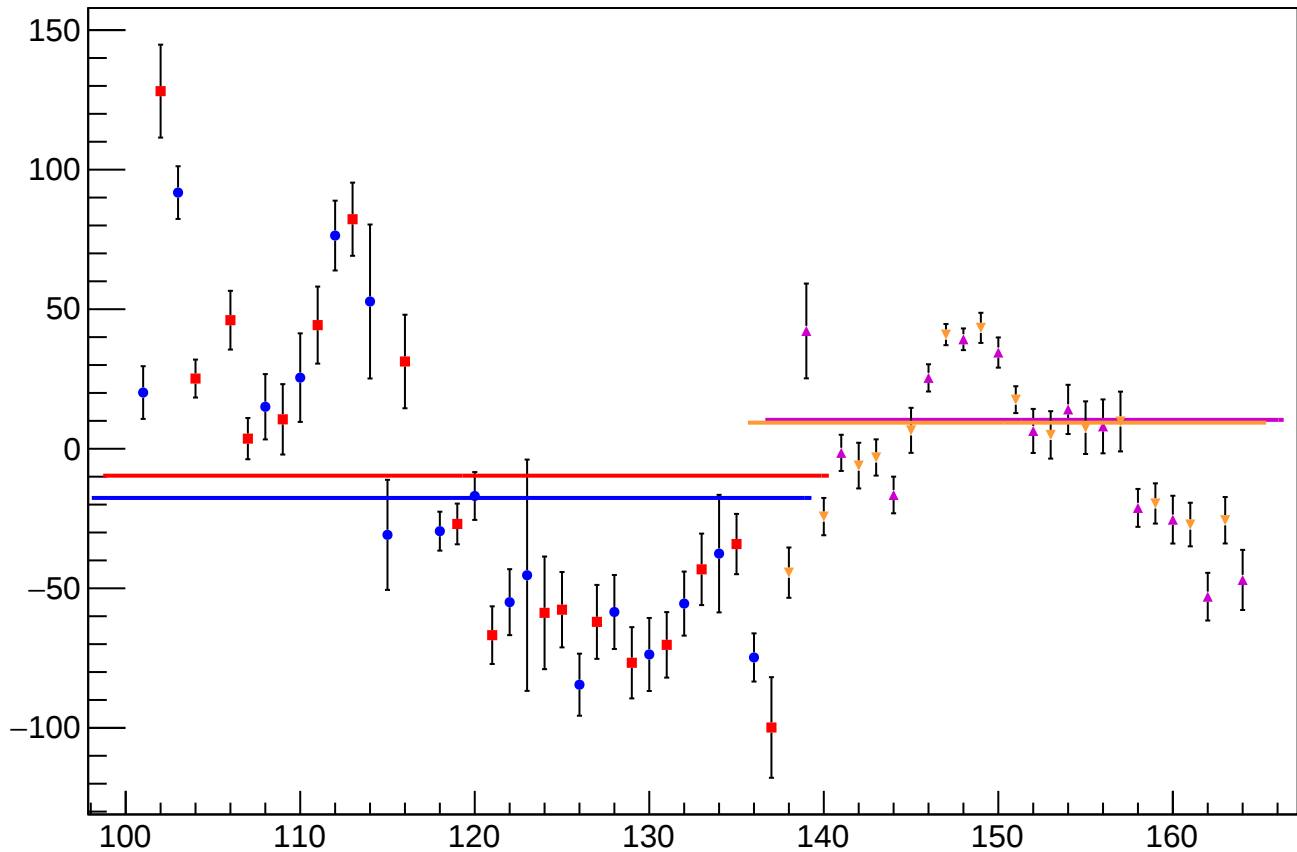
Left In: -463.210+/-2.757  $\chi^2/\text{NDF}$ : 260.4/12

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

All: -459.104+/-1.923  $\chi^2/\text{NDF}$ : 730.7/26

- 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:  $9.353 \pm 1.768$   $\chi^2/\text{NDF}$ : 236.1/13

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

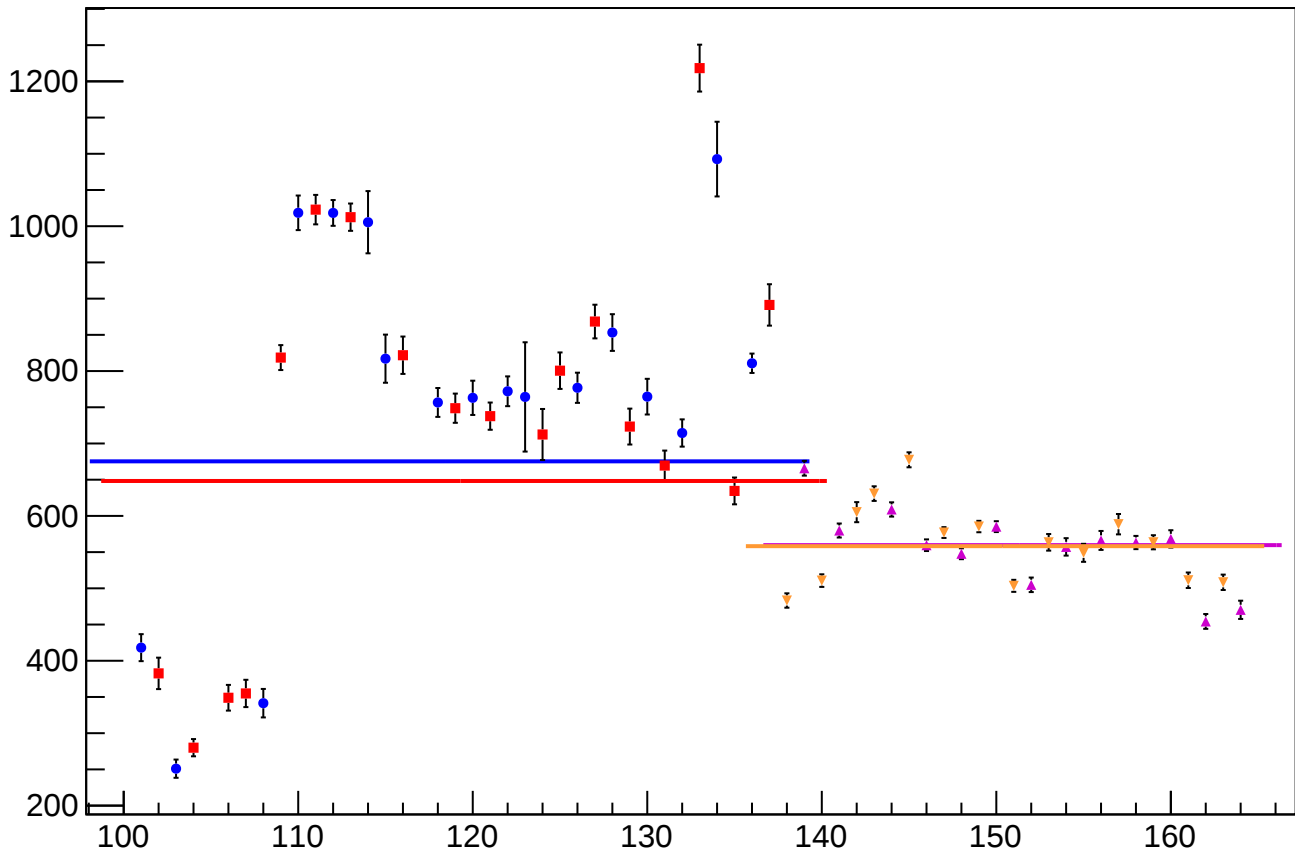
Left In:  $10.357 \pm 1.856$   $\chi^2/\text{NDF}$ : 231.2/12

+ sign  $1.608 \pm 1.493$   $\chi^2/\text{NDF}$ : 664.9/30

All:  $2.615 \pm 1.063$   $\chi^2/\text{NDF}$ : 1296.6/61

- sign  $3.649 \pm 1.513$   $\chi^2/\text{NDF}$ : 630.8/30

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In:  $675.339 \pm 5.046$   $\chi^2/\text{NDF}$ : 2582.7/16

Left Out:  $558.217 \pm 2.640$   $\chi^2/\text{NDF}$ : 391.6/13

Right Out:  $648.229 \pm 4.775$   $\chi^2/\text{NDF}$ : 3059.0/17

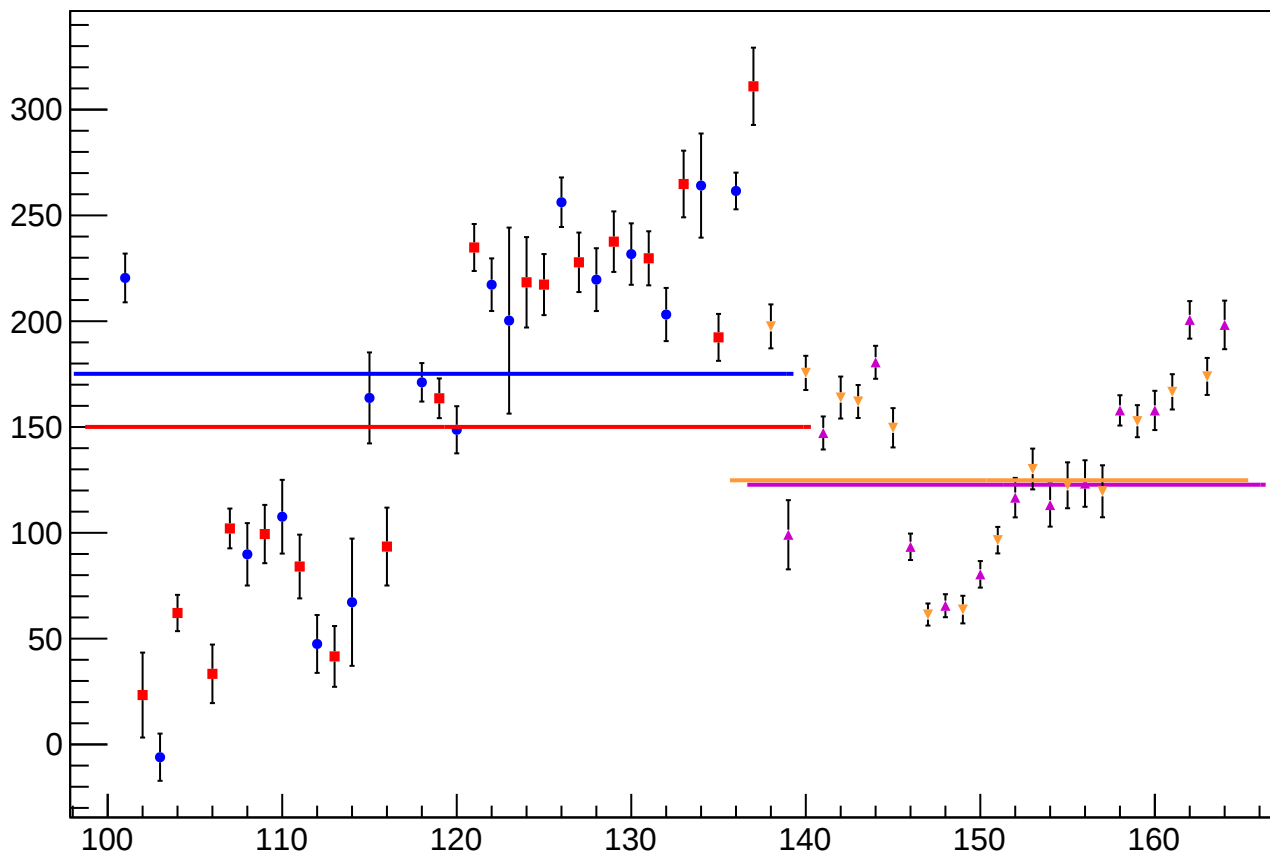
Left In:  $559.654 \pm 2.682$   $\chi^2/\text{NDF}$ : 339.0/12

+ sign  $583.394 \pm 2.339$   $\chi^2/\text{NDF}$ : 3397.2/30

All:  $582.143 \pm 1.654$   $\chi^2/\text{NDF}$ : 7057.4/61

- sign  $580.893 \pm 2.338$   $\chi^2/\text{NDF}$ : 3659.6/30

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In:  $175.142 \pm 3.209$   $\chi^2/\text{NDF}$ : 635.6/16

Left Out:  $124.832 \pm 2.136$   $\chi^2/\text{NDF}$ : 460.1/13

Right Out:  $150.054 \pm 3.045$   $\chi^2/\text{NDF}$ : 686.2/17

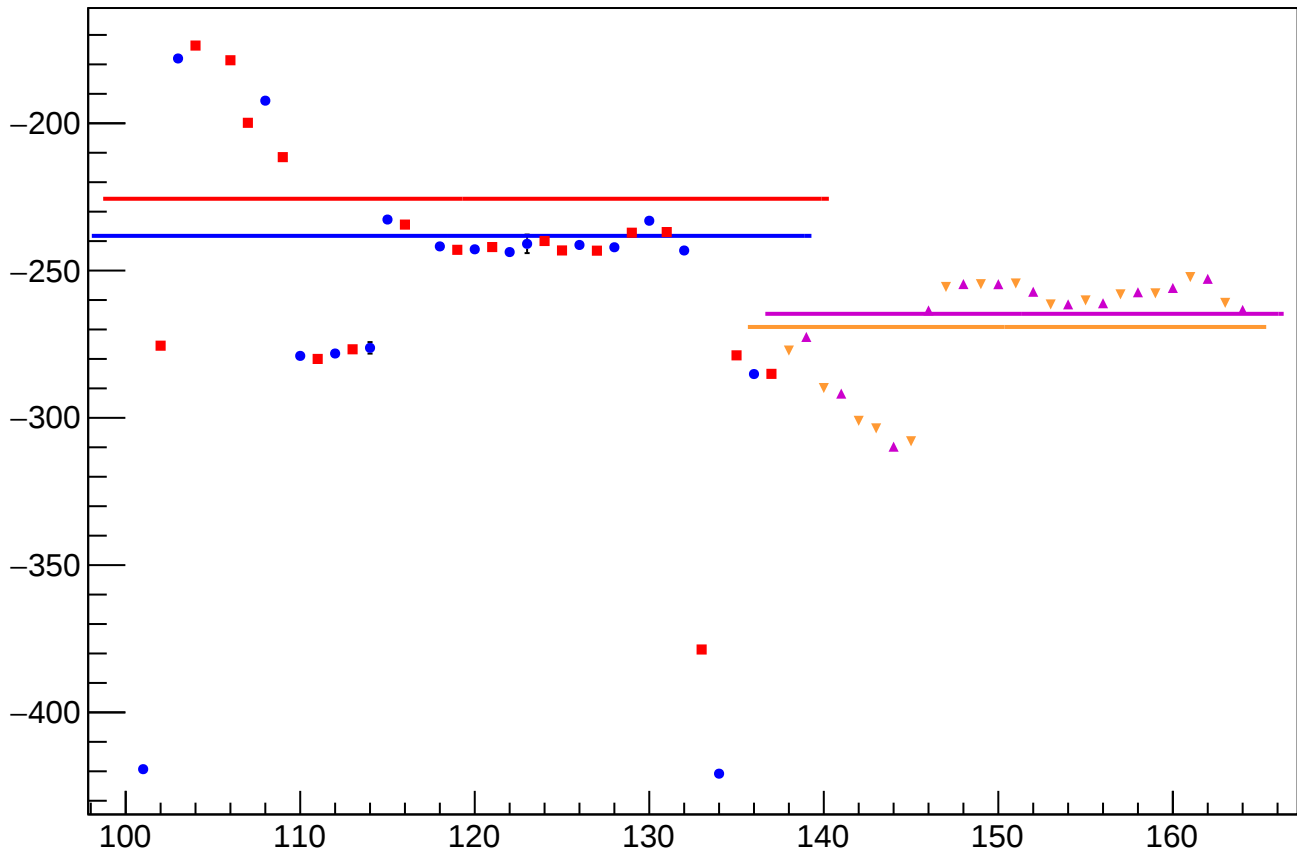
Left In:  $122.731 \pm 2.224$   $\chi^2/\text{NDF}$ : 405.4/12

+ sign  $140.279 \pm 1.778$   $\chi^2/\text{NDF}$ : 1266.1/30

All:  $136.295 \pm 1.264$   $\chi^2/\text{NDF}$ : 2420.3/61

- sign  $132.232 \pm 1.796$   $\chi^2/\text{NDF}$ : 1144.1/30

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In:  $-238.217 \pm 0.160$   $\chi^2/\text{NDF}: 167098.2/16$

Left Out:  $-269.148 \pm 0.106$   $\chi^2/\text{NDF}: 32390.8/13$

Right Out:  $-225.623 \pm 0.152$   $\chi^2/\text{NDF}: 95450.2/17$

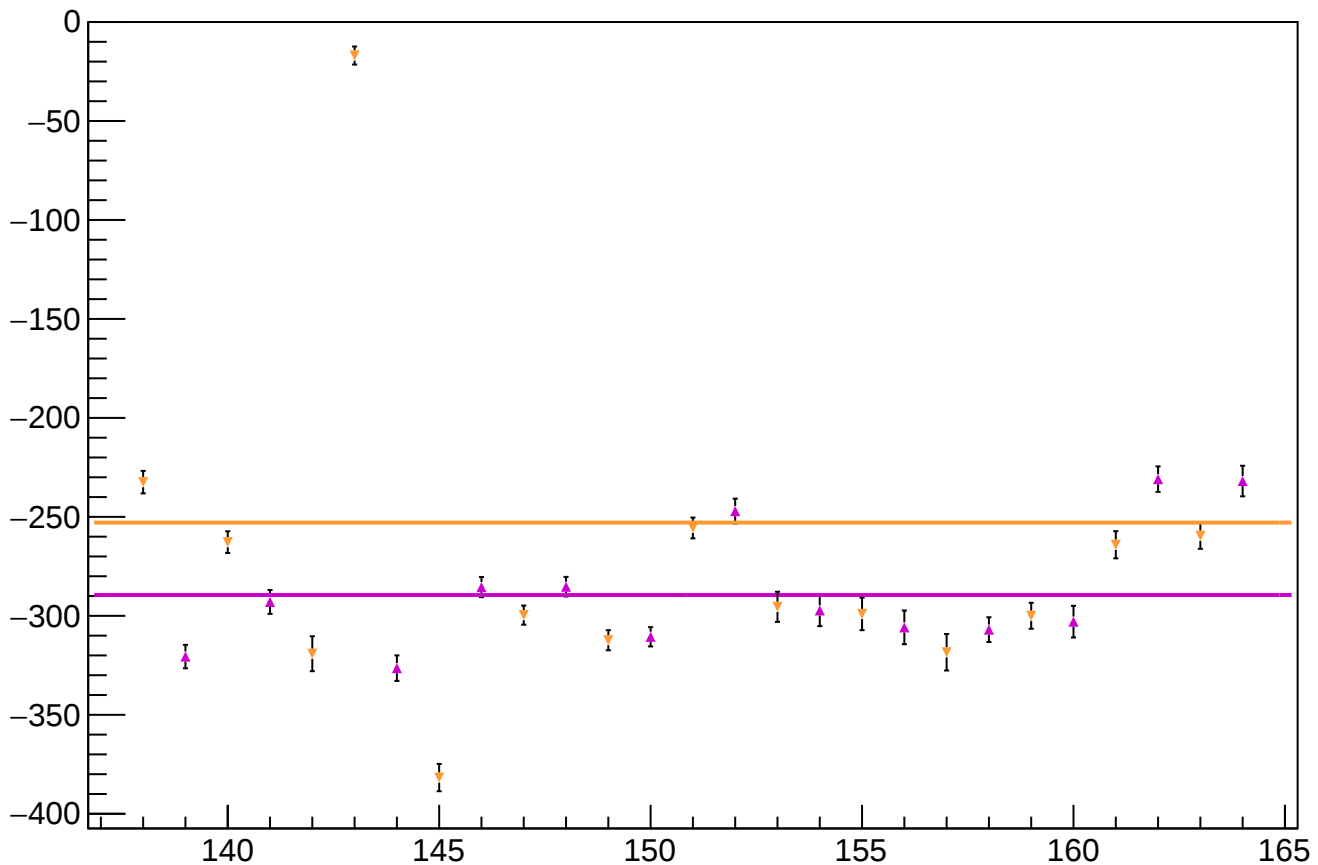
Left In:  $-264.685 \pm 0.107$   $\chi^2/\text{NDF}: 20461.6/12$

+ sign  $-259.700 \pm 0.088$   $\chi^2/\text{NDF}: 225426.5/30$

All:  $-255.658 \pm 0.062$   $\chi^2/\text{NDF}: 389830.3/61$

- sign  $-251.718 \pm 0.087$   $\chi^2/\text{NDF}: 160280.1/30$

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -252.887+/-1.633  $\chi^2/\text{NDF}$ : 3495.0/13

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

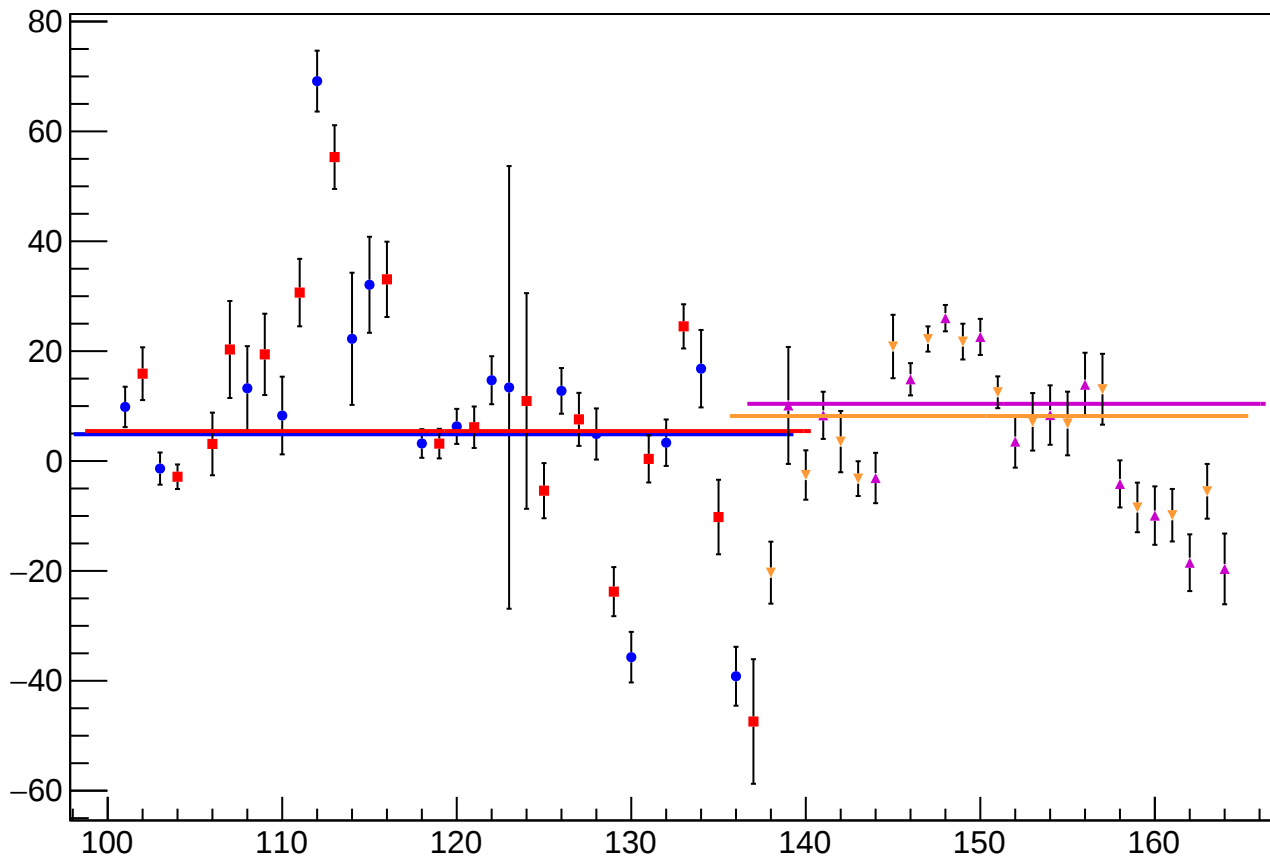
Left In: -289.466+/-1.718  $\chi^2/\text{NDF}$ : 280.0/12

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

All: -270.249+/-1.184  $\chi^2/\text{NDF}$ : 4013.1/26

- 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:  $8.189 \pm 1.072$   $\chi^2/\text{NDF}$ : 142.7/13

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}$ : 231.5/17

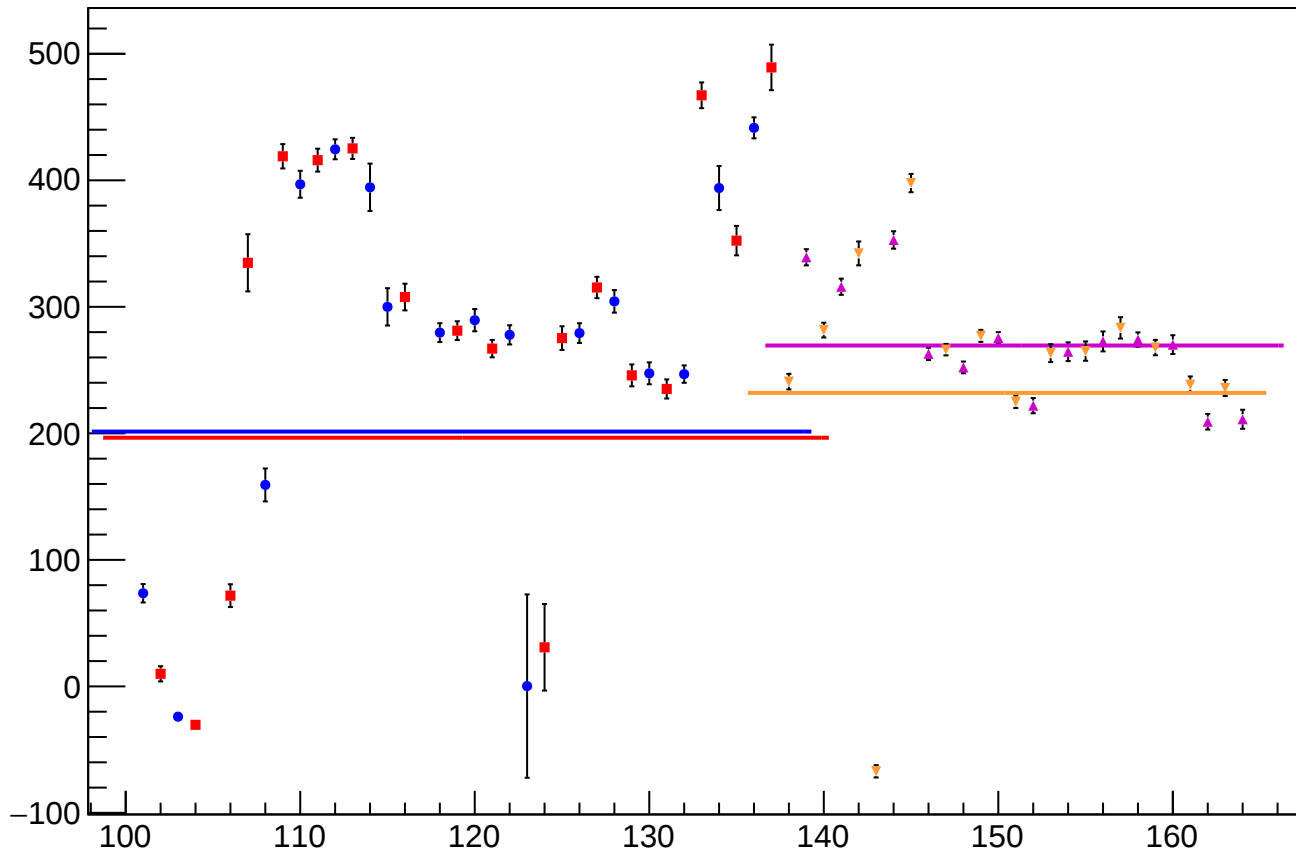
Left In:  $10.412 \pm 1.153$   $\chi^2/\text{NDF}$ : 149.1/12

+ sign  $6.558 \pm 0.765$   $\chi^2/\text{NDF}$ : 458.9/30

All:  $7.138 \pm 0.548$   $\chi^2/\text{NDF}$ : 850.8/61

- sign  $7.748 \pm 0.785$   $\chi^2/\text{NDF}$ : 390.6/30

# 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: 231.979 $\pm$ 1.607  $\chi^2/\text{NDF}$ : 4774.5/13

Right Out: 196.565 $\pm$ 1.931  $\chi^2/\text{NDF}$ : 8178.1/17

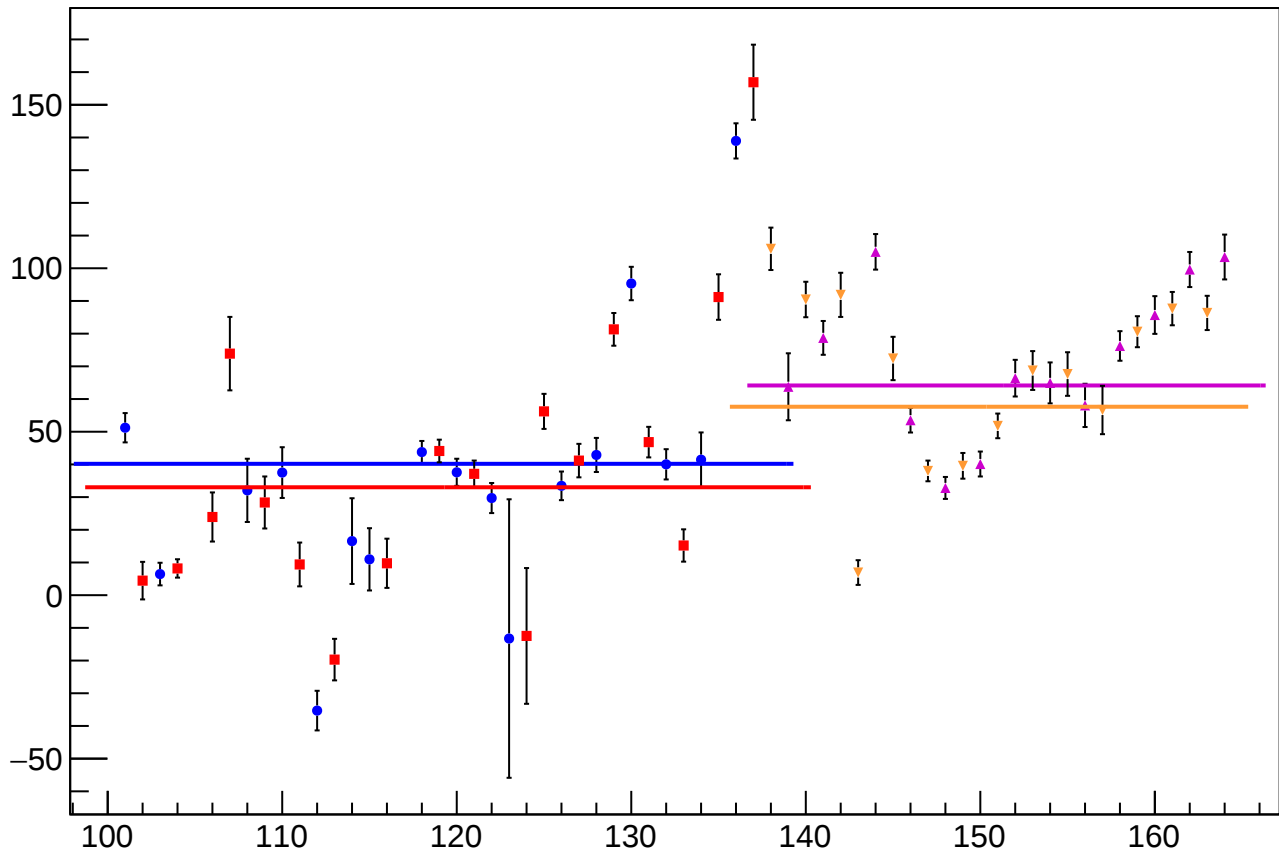
Left In: 269.430 $\pm$ 1.665  $\chi^2/\text{NDF}$ : 553.3/12

+ sign 219.795 $\pm$ 1.246  $\chi^2/\text{NDF}$ : 11659.2/30

All: 228.961 $\pm$ 0.886  $\chi^2/\text{NDF}$ : 21316.6/61

- sign 238.353 $\pm$ 1.261  $\chi^2/\text{NDF}$ : 9547.8/30

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.183 $\pm$ 1.270  $\chi^2$ /NDF: 734.0/16

Left Out: 57.643 $\pm$ 1.296  $\chi^2$ /NDF: 458.7/13

Right Out: 33.009 $\pm$ 1.253  $\chi^2$ /NDF: 547.2/17

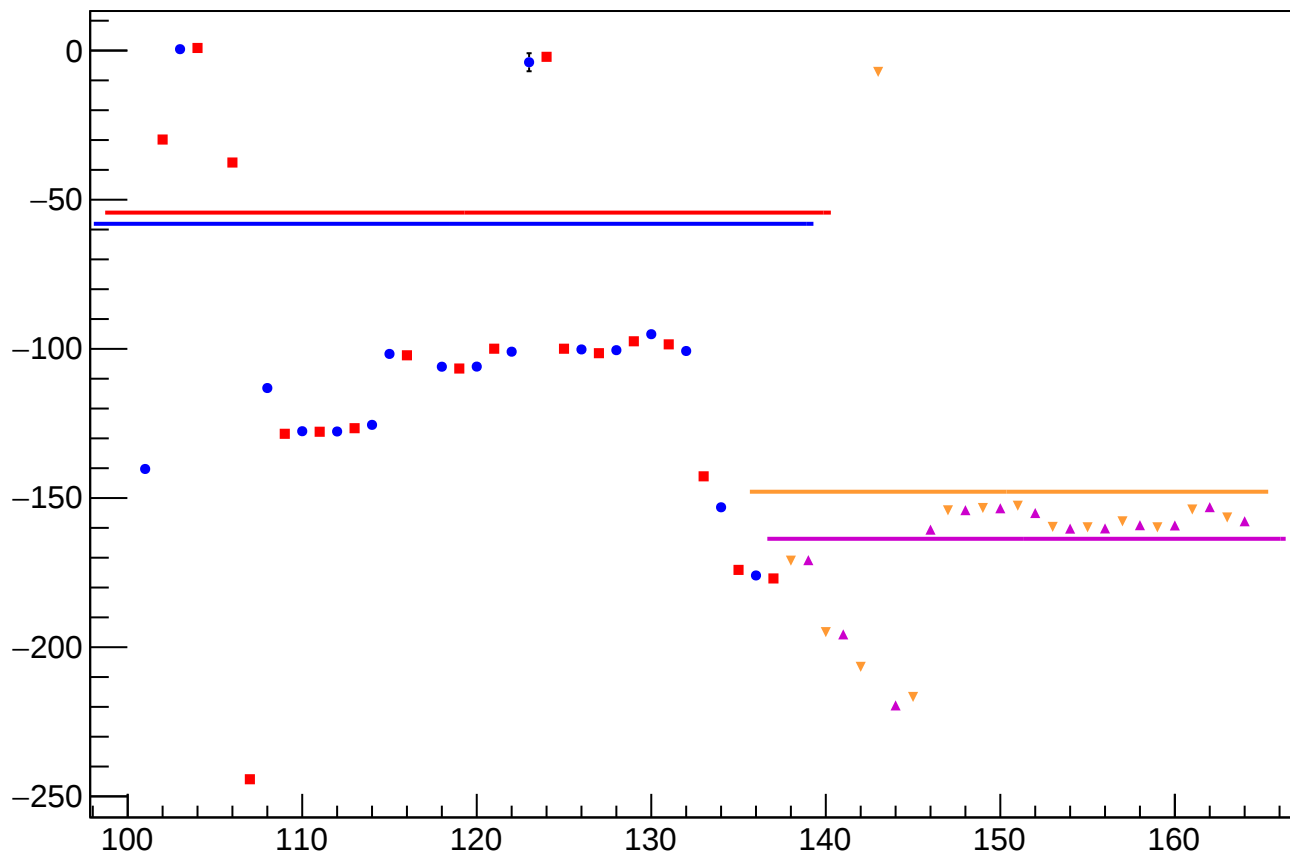
Left In: 64.148 $\pm$ 1.382  $\chi^2$ /NDF: 297.8/12

+ sign 48.738 $\pm$ 0.907  $\chi^2$ /NDF: 1285.3/30

All: 47.916 $\pm$ 0.649  $\chi^2$ /NDF: 2410.6/61

- sign 47.056 $\pm$ 0.928  $\chi^2$ /NDF: 1123.6/30

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-58.077 \pm 0.062$   $\chi^2/\text{NDF}: 1104437.7/16$

Left Out:  $-147.882 \pm 0.065$   $\chi^2/\text{NDF}: 656135.7/13$

Right Out:  $-54.323 \pm 0.060$   $\chi^2/\text{NDF}: 991053.6/17$

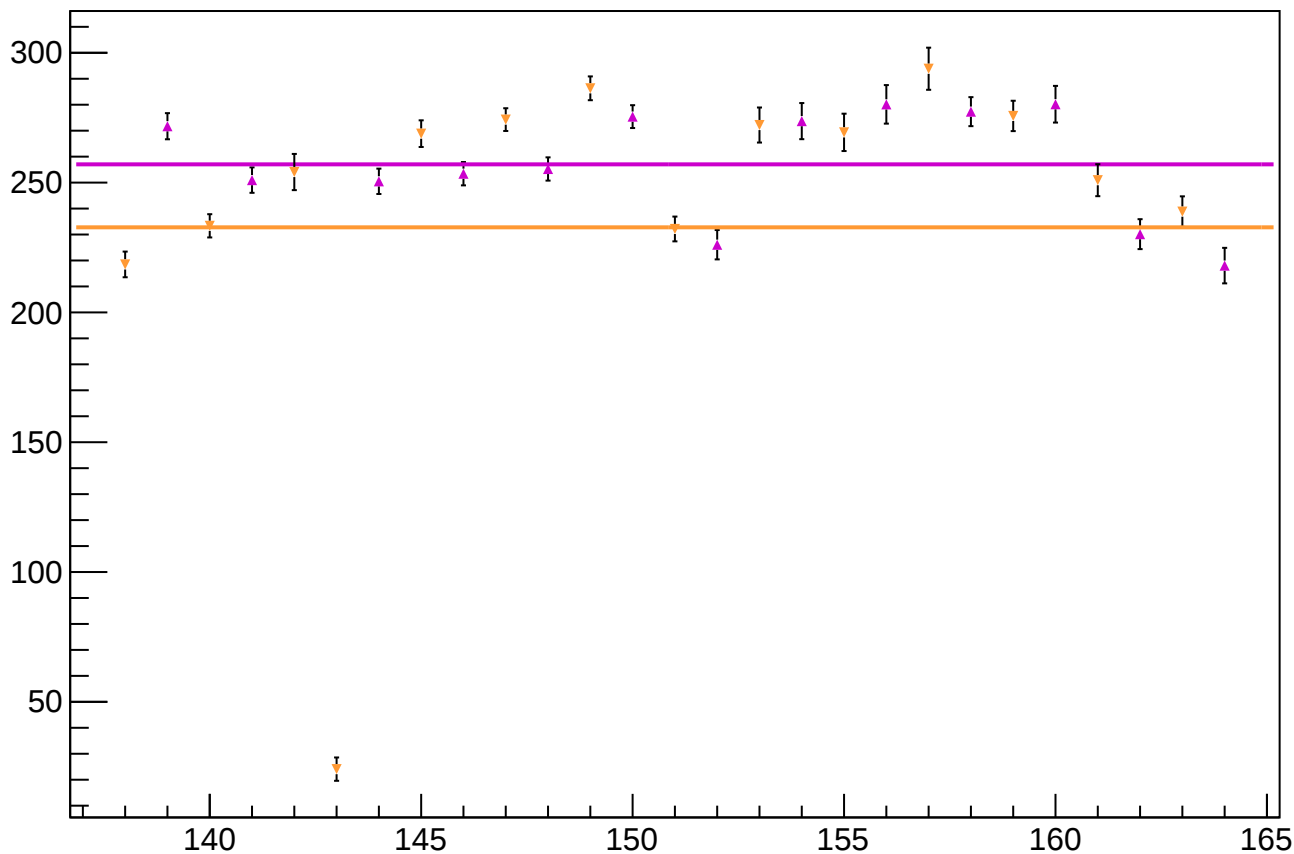
Left In:  $-163.660 \pm 0.066$   $\chi^2/\text{NDF}: 60393.5/12$

+ sign  $-100.900 \pm 0.045$   $\chi^2/\text{NDF}: 2773391.7/30$

All:  $-102.413 \pm 0.032$   $\chi^2/\text{NDF}: 5312075.7/61$

- sign  $-103.933 \pm 0.045$   $\chi^2/\text{NDF}: 2536374.4/30$

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 232.771+/-1.438  $\chi^2/\text{NDF}$ :2632.6/13

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

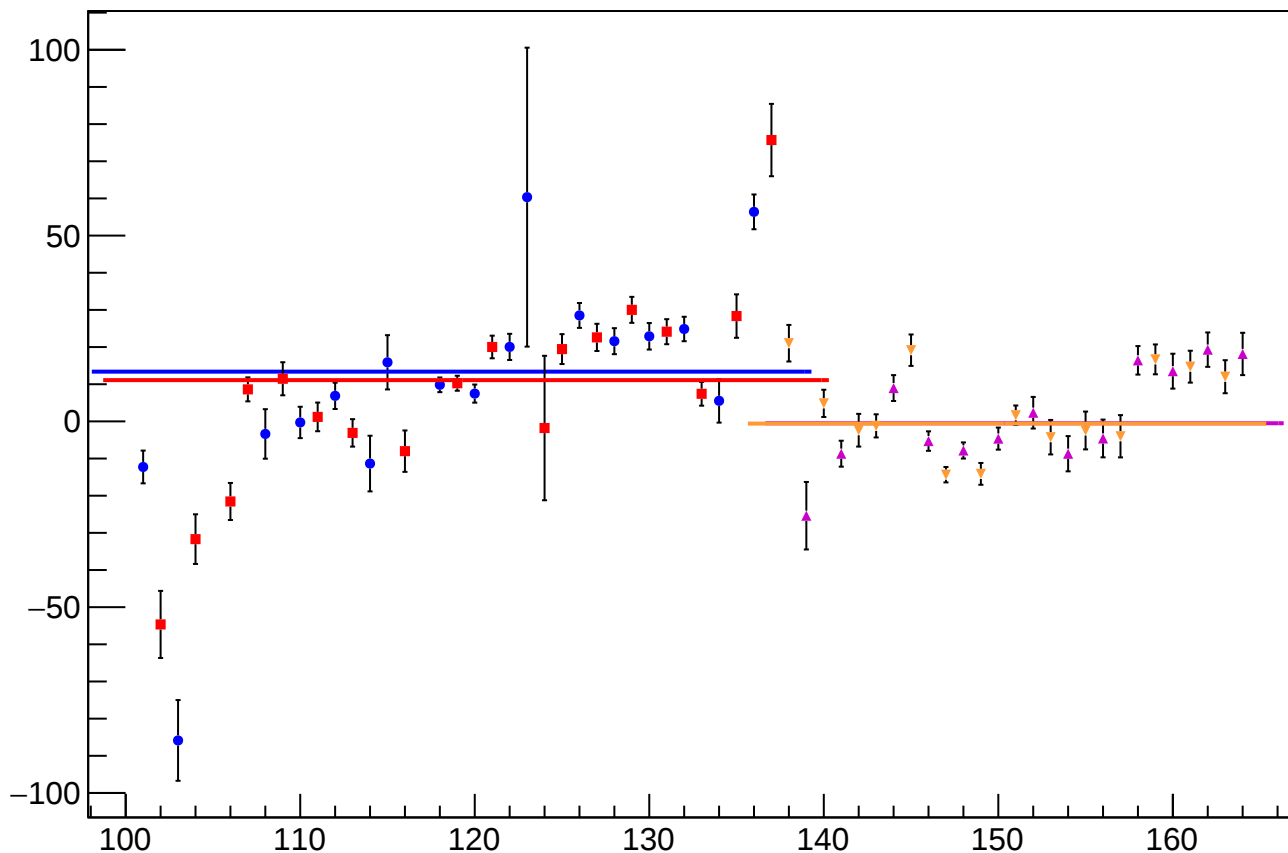
Left In: 257.031+/-1.494  $\chi^2/\text{NDF}$ :153.7/12

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

All: 244.435+/-1.036  $\chi^2/\text{NDF}$ : 2923.2/26

- 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:  $-0.591 \pm 0.953$   $\chi^2/\text{NDF}$ : 149.7/13

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

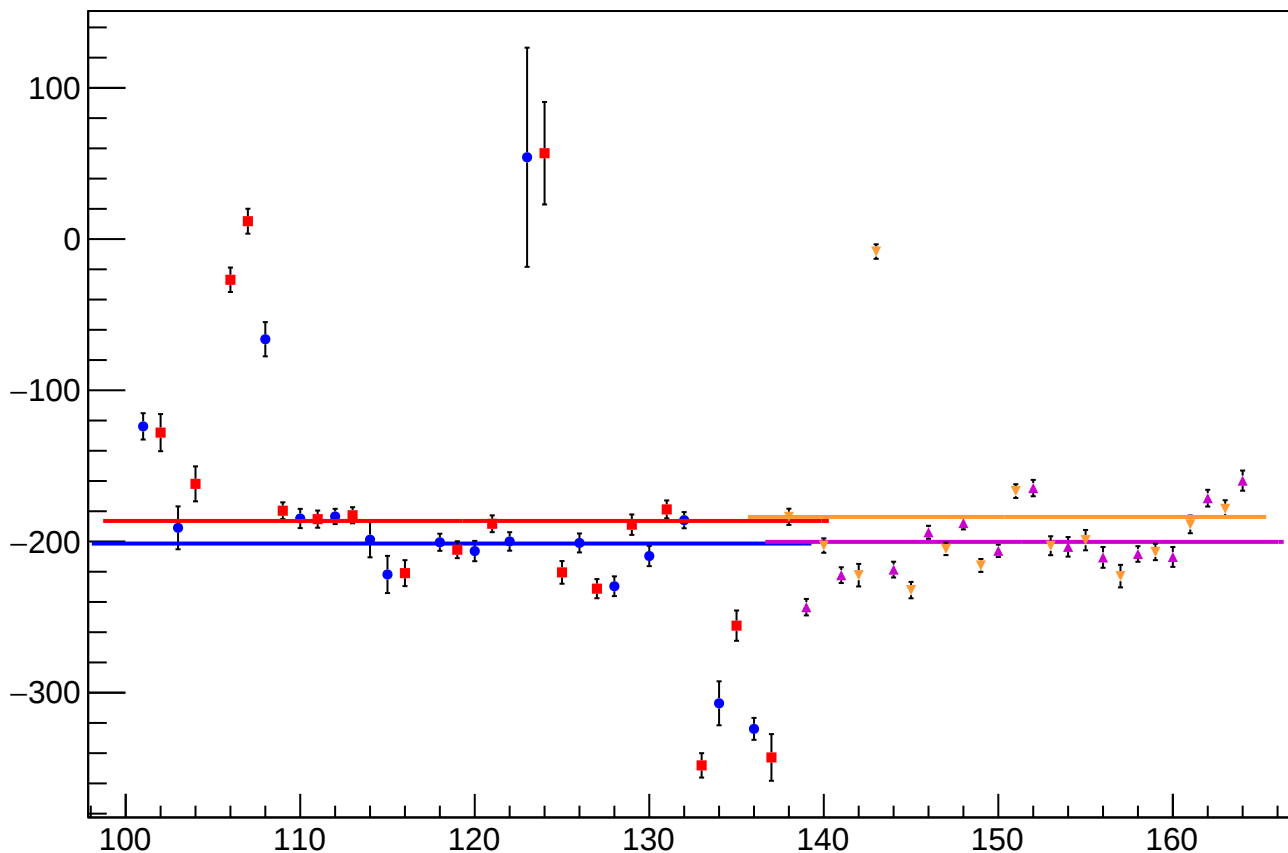
Left In:  $-0.499 \pm 1.012$   $\chi^2/\text{NDF}$ : 98.6/12

+ sign  $6.634 \pm 0.662$   $\chi^2/\text{NDF}$ : 555.0/30

All:  $6.266 \pm 0.474$   $\chi^2/\text{NDF}$ : 1018.7/61

- sign  $5.880 \pm 0.679$   $\chi^2/\text{NDF}$ : 463.1/30

# 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:  $-183.768 \pm 1.419$   $\chi^2/\text{NDF}$ : 1622.8/13

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

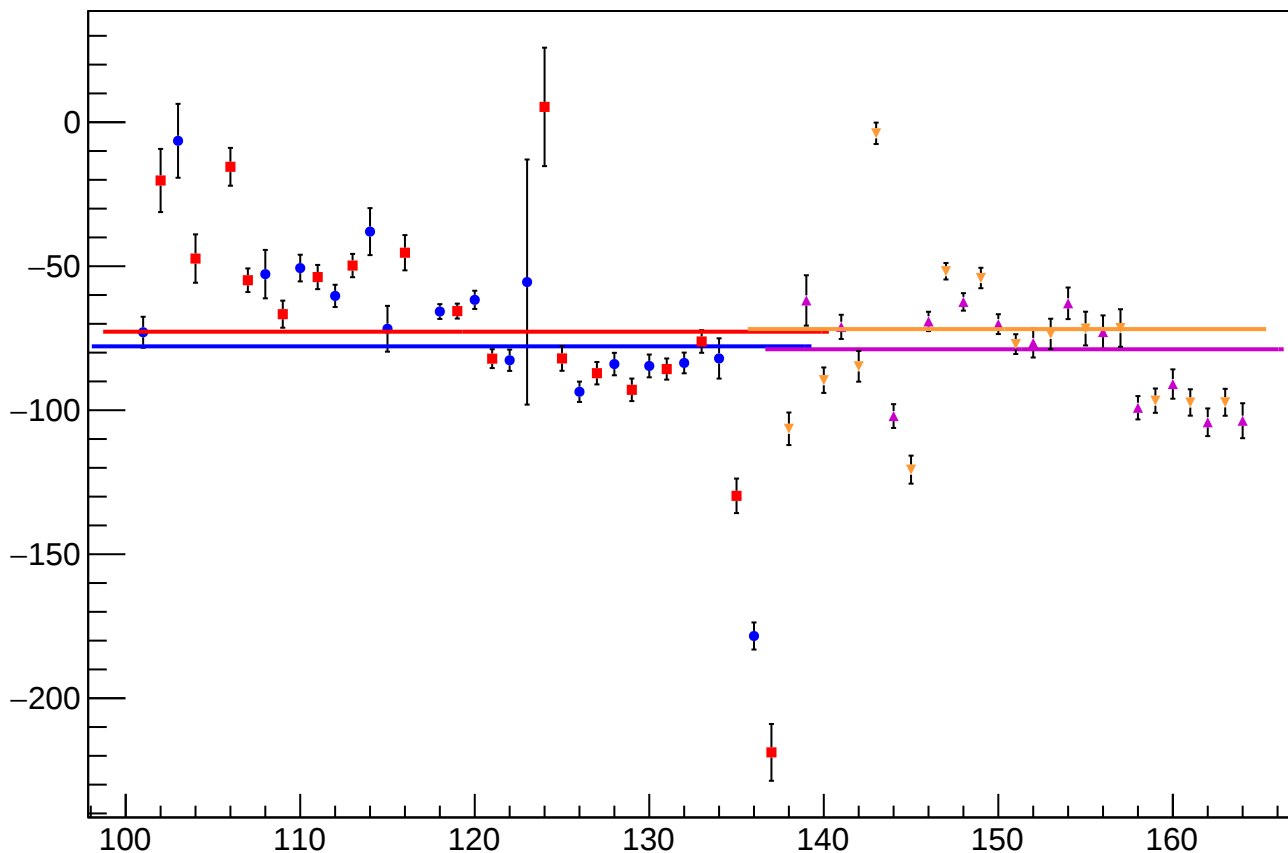
Left In:  $-200.254 \pm 1.455$   $\chi^2/\text{NDF}$ : 220.5/12

+ sign  $-190.589 \pm 1.110$   $\chi^2/\text{NDF}$ : 2307.4/30

All:  $-192.507 \pm 0.784$   $\chi^2/\text{NDF}$ : 4271.5/61

- sign  $-194.412 \pm 1.107$   $\chi^2/\text{NDF}$ : 1958.1/30

# 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:  $-71.826 \pm 1.149$   $\chi^2/\text{NDF}$ : 665.9/13

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

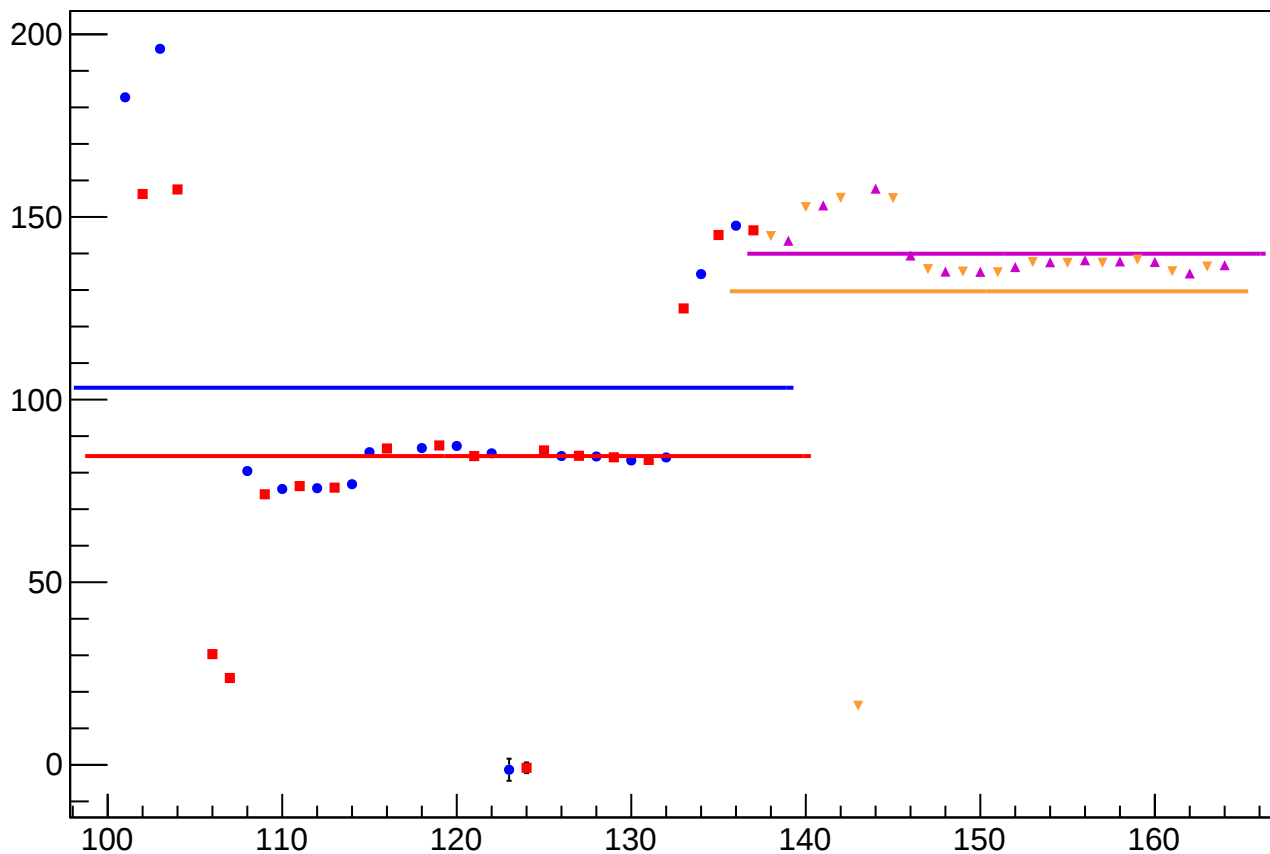
Left In:  $-78.838 \pm 1.210$   $\chi^2/\text{NDF}$ : 167.8/12

+ sign  $-75.042 \pm 0.782$   $\chi^2/\text{NDF}$ : 1336.8/30

All:  $-75.201 \pm 0.558$   $\chi^2/\text{NDF}$ : 2118.1/61

- sign  $-75.365 \pm 0.795$   $\chi^2/\text{NDF}$ : 781.2/30

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $103.247 \pm 0.070$   $\chi^2/\text{NDF}: 273390.3/16$

Left Out:  $129.650 \pm 0.057$   $\chi^2/\text{NDF}: 396476.8/13$

Right Out:  $84.542 \pm 0.064$   $\chi^2/\text{NDF}: 411395.0/17$

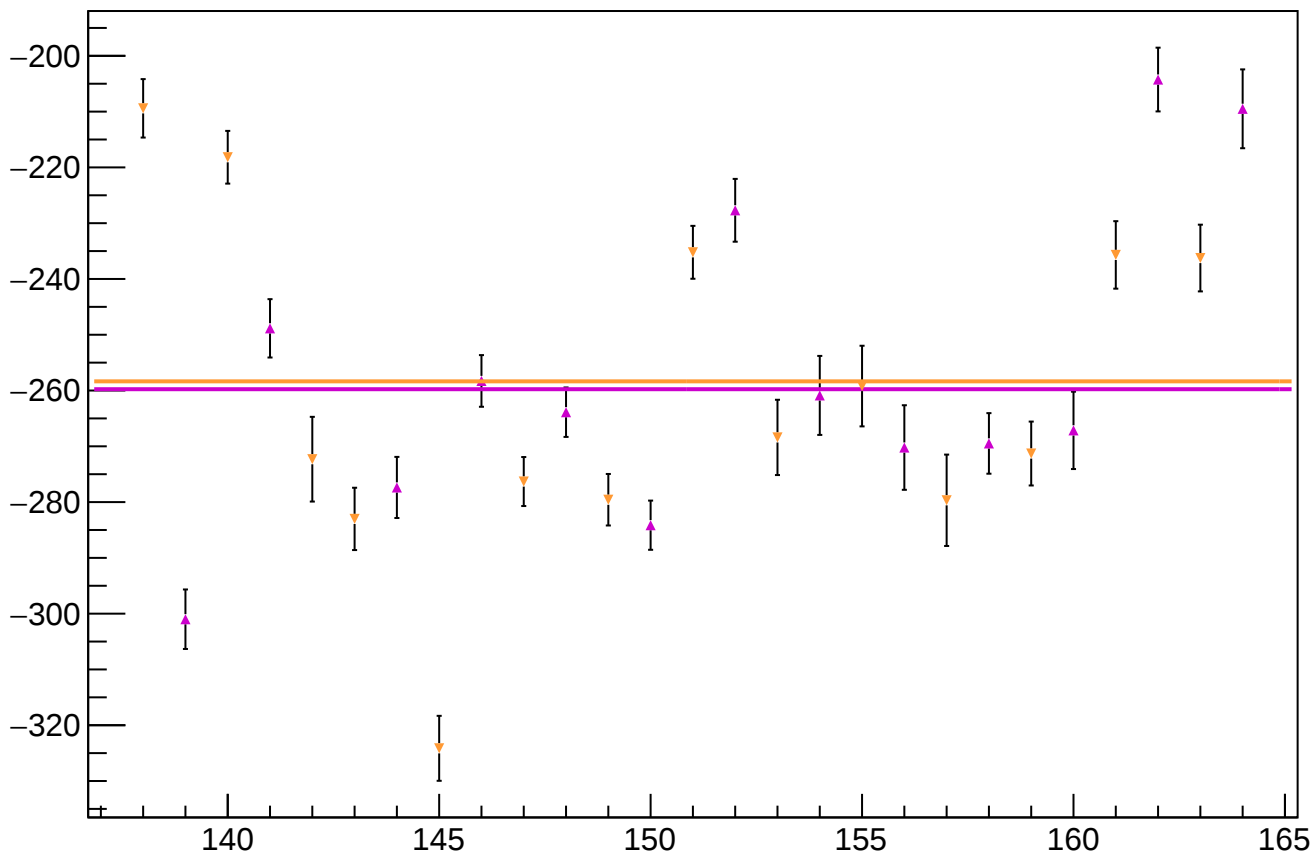
Left In:  $139.938 \pm 0.058$   $\chi^2/\text{NDF}: 13325.0/12$

+ sign  $119.219 \pm 0.044$   $\chi^2/\text{NDF}: 754809.6/30$

All:  $117.010 \pm 0.031$   $\chi^2/\text{NDF}: 1596494.8/61$

- sign  $114.933 \pm 0.043$   $\chi^2/\text{NDF}: 836859.5/30$

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -258.355+/-1.499  $\chi^2/\text{NDF}$ : 413.5/13

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

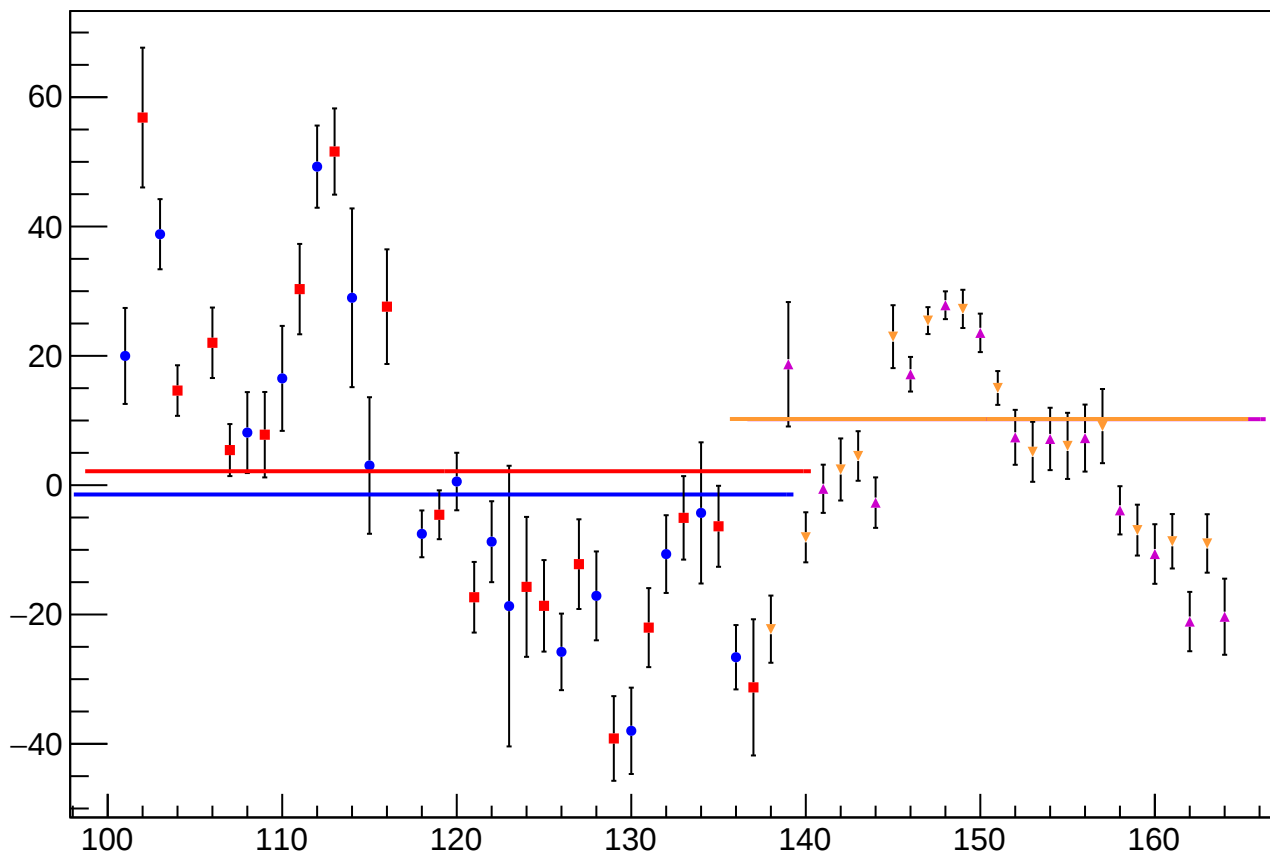
Left In: -259.763+/-1.528  $\chi^2/\text{NDF}$ : 289.7/12

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

All: -259.045+/-1.070  $\chi^2/\text{NDF}$ : 703.6/26

- 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:  $10.235 \pm 0.983$   $\chi^2/\text{NDF}$ : 222.5/13

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}$ : 230.2/17

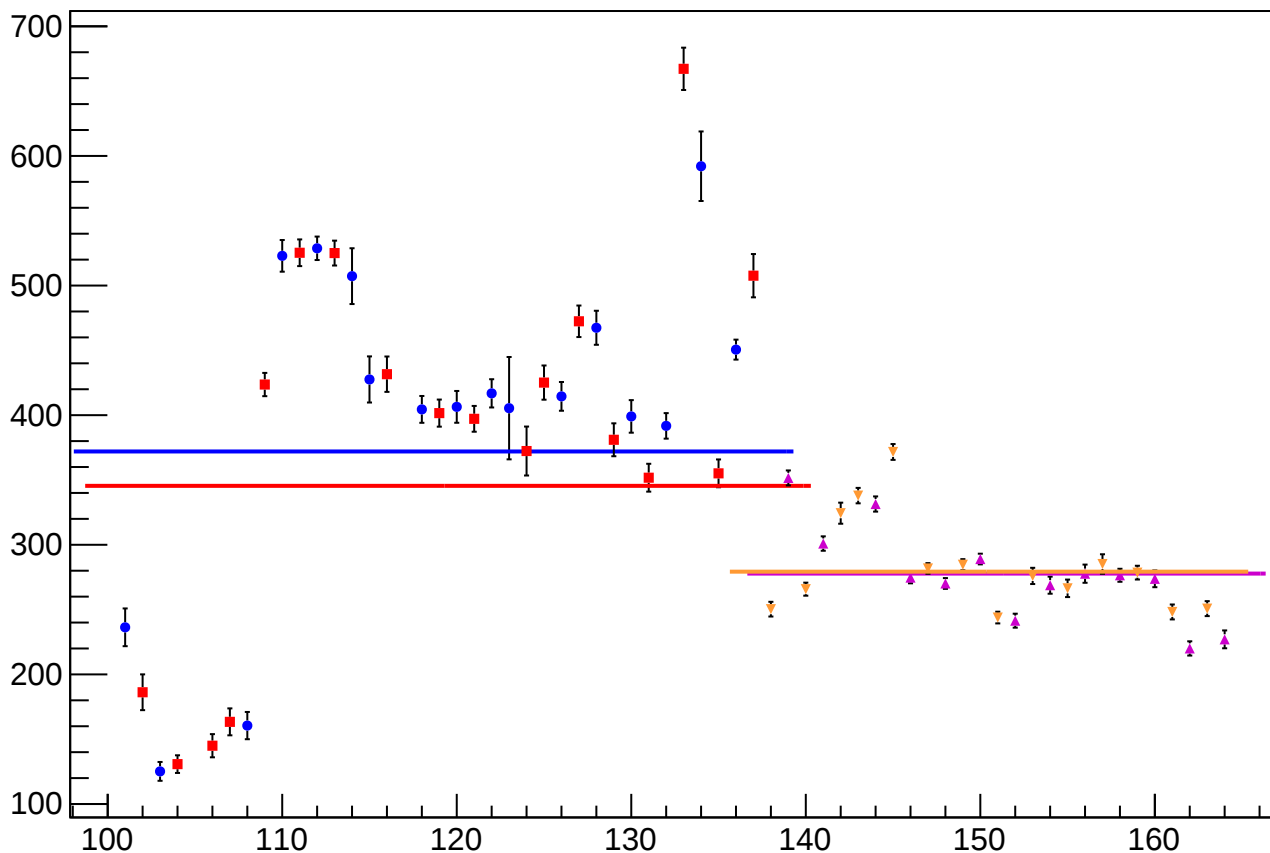
Left In:  $10.207 \pm 1.027$   $\chi^2/\text{NDF}$ : 223.5/12

+ sign  $6.778 \pm 0.825$   $\chi^2/\text{NDF}$ : 488.6/30

All:  $7.084 \pm 0.585$   $\chi^2/\text{NDF}$ : 964.1/61

- sign  $7.393 \pm 0.828$   $\chi^2/\text{NDF}$ : 475.2/30

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 371.997 $\pm$ 2.765  $\chi^2$ /NDF: 2431.2/16

Left Out: 279.264 $\pm$ 1.469  $\chi^2$ /NDF: 510.9/13

Right Out: 345.473 $\pm$ 2.564  $\chi^2$ /NDF: 3401.6/17

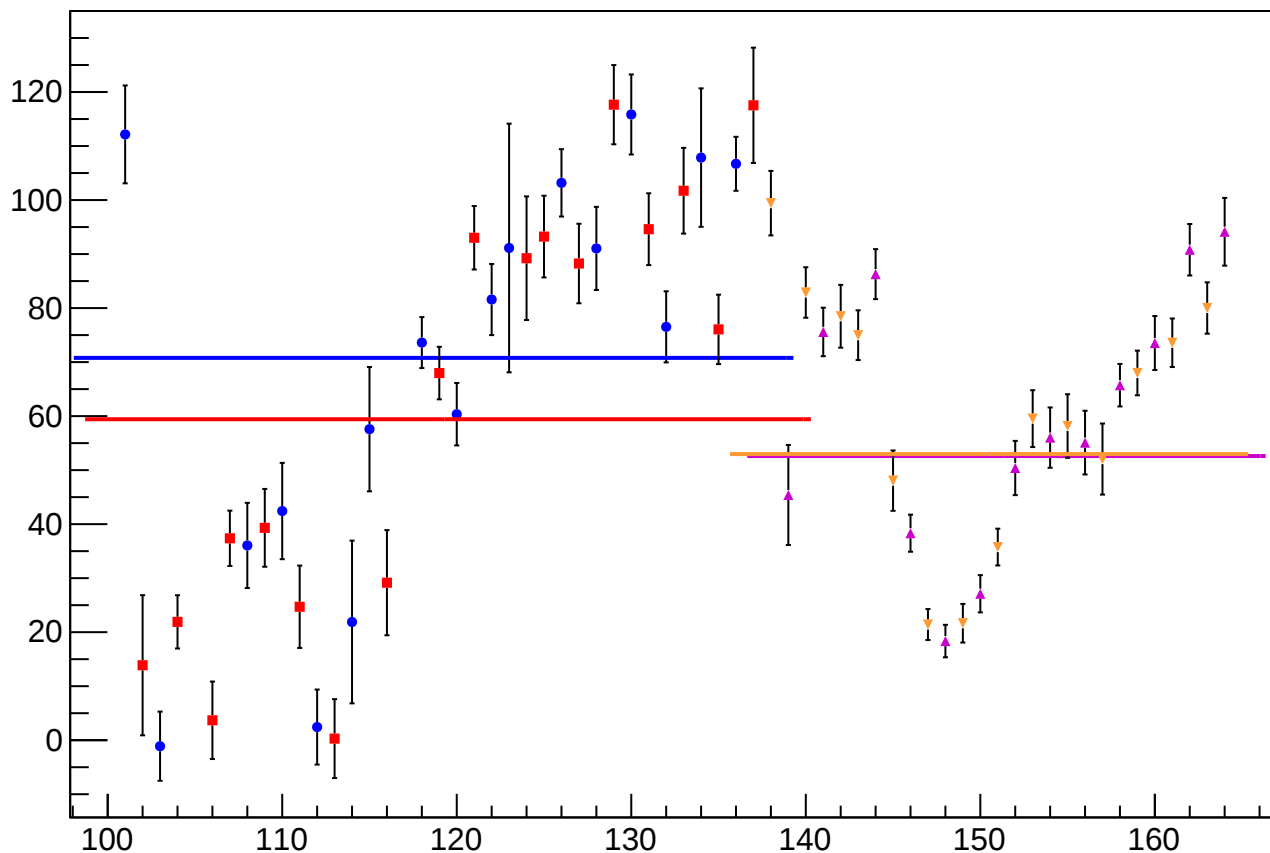
Left In: 277.778 $\pm$ 1.482  $\chi^2$ /NDF: 488.1/12

+ sign 299.680 $\pm$ 1.297  $\chi^2$ /NDF: 3819.4/30

All: 297.181 $\pm$ 0.912  $\chi^2$ /NDF: 8238.9/61

- sign 294.735 $\pm$ 1.283  $\chi^2$ /NDF: 4412.1/30

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.780 $\pm$ 1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 52.973 $\pm$ 1.188  $\chi^2$ /NDF:436.5/13

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

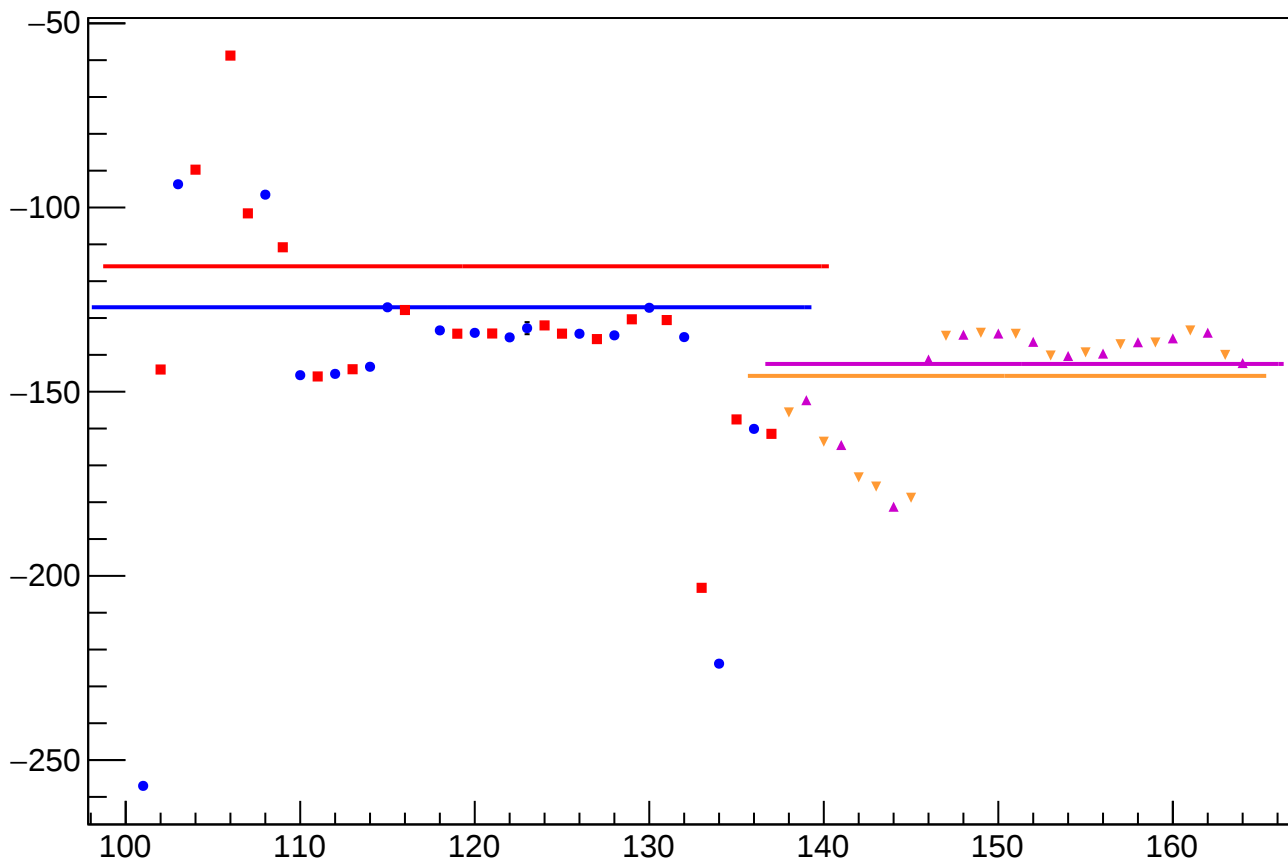
Left In: 52.607 $\pm$ 1.229  $\chi^2$ /NDF:418.9/12

+ sign 58.604 $\pm$ 0.982  $\chi^2$ /NDF: 931.5/30

All: 56.838 $\pm$ 0.694  $\chi^2$ /NDF: 1854.5/61

- sign 55.073 $\pm$ 0.982  $\chi^2$ /NDF: 916.6/30

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-127.076 \pm 0.090$   $\chi^2/\text{NDF}: 167028.9/16$

Left Out:  $-145.708 \pm 0.059$   $\chi^2/\text{NDF}: 69243.2/13$

Right Out:  $-115.959 \pm 0.083$   $\chi^2/\text{NDF}: 158983.0/17$

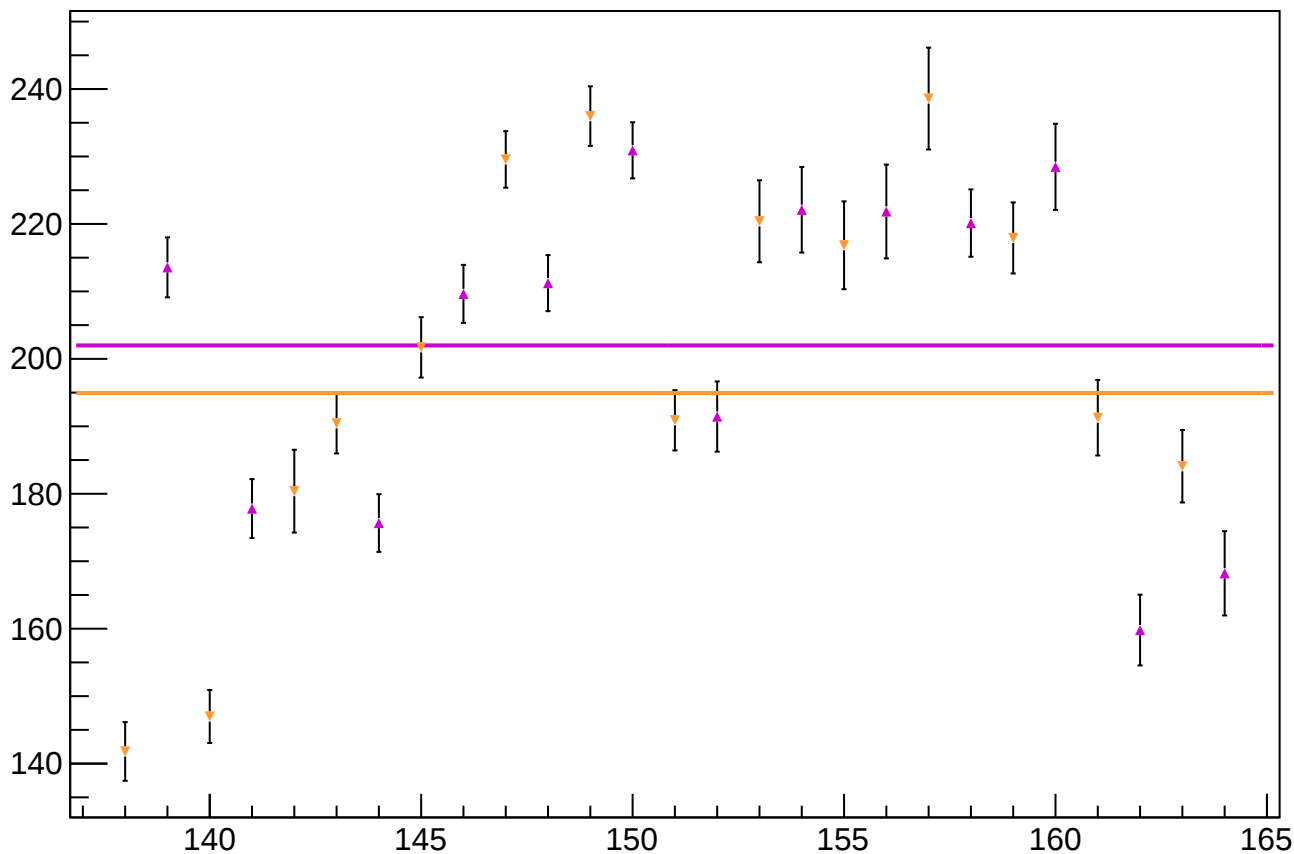
Left In:  $-142.466 \pm 0.059$   $\chi^2/\text{NDF}: 43453.4/12$

+ sign  $-140.071 \pm 0.049$   $\chi^2/\text{NDF}: 266482.3/30$

All:  $-136.745 \pm 0.034$   $\chi^2/\text{NDF}: 545580.9/61$

- sign  $-133.574 \pm 0.048$   $\chi^2/\text{NDF}: 270185.2/30$

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 194.941 $\pm$ 1.320  $\chi^2/\text{NDF}$ : 548.5/13

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

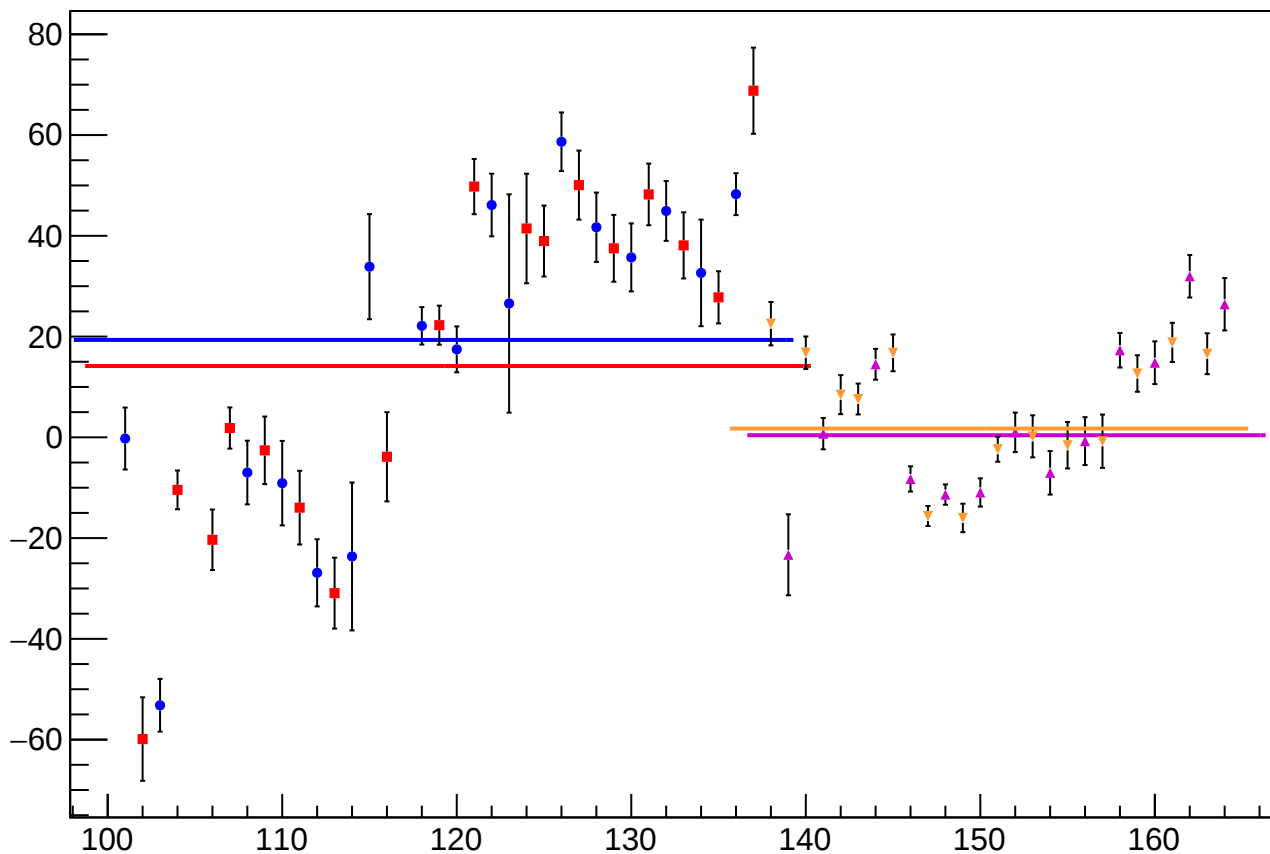
Left In: 201.992 $\pm$ 1.365  $\chi^2/\text{NDF}$ : 278.4/12

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

All: 198.348 $\pm$ 0.949  $\chi^2/\text{NDF}$ : 840.7/26

- sign 0.000 $\pm$ 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:  $1.744 \pm 0.883$   $\chi^2/\text{NDF}: 230.1/13$

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}: 426.0/17$

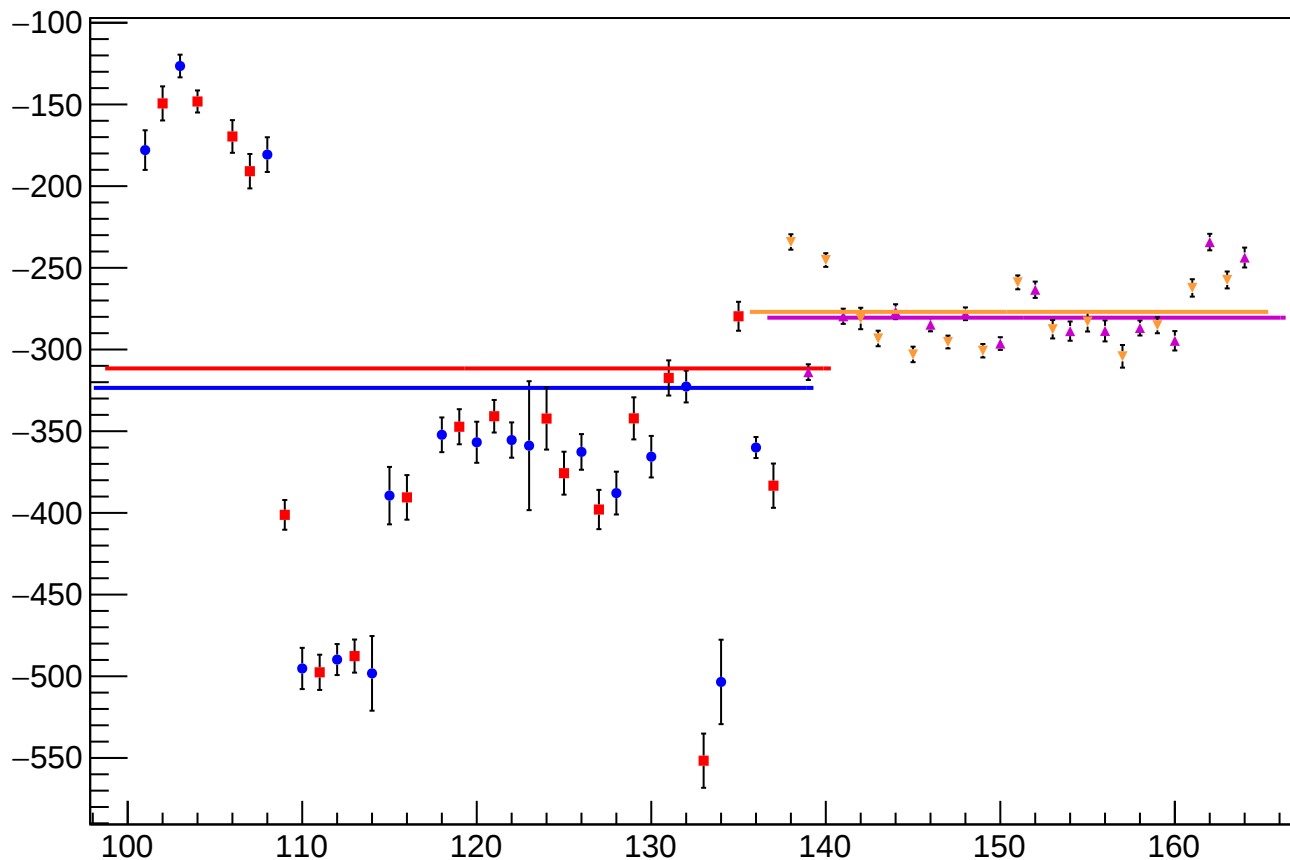
Left In:  $0.424 \pm 0.931$   $\chi^2/\text{NDF}: 212.3/12$

+ sign  $6.349 \pm 0.758$   $\chi^2/\text{NDF}: 774.0/30$

All:  $5.526 \pm 0.542$   $\chi^2/\text{NDF}: 1482.1/61$

- sign  $4.671 \pm 0.774$   $\chi^2/\text{NDF}: 705.7/30$

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-323.491 \pm 2.673$   $\chi^2/\text{NDF}: 1847.6/16$

Left Out:  $-276.964 \pm 1.306$   $\chi^2/\text{NDF}: 299.9/13$

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}: 2243.8/17$

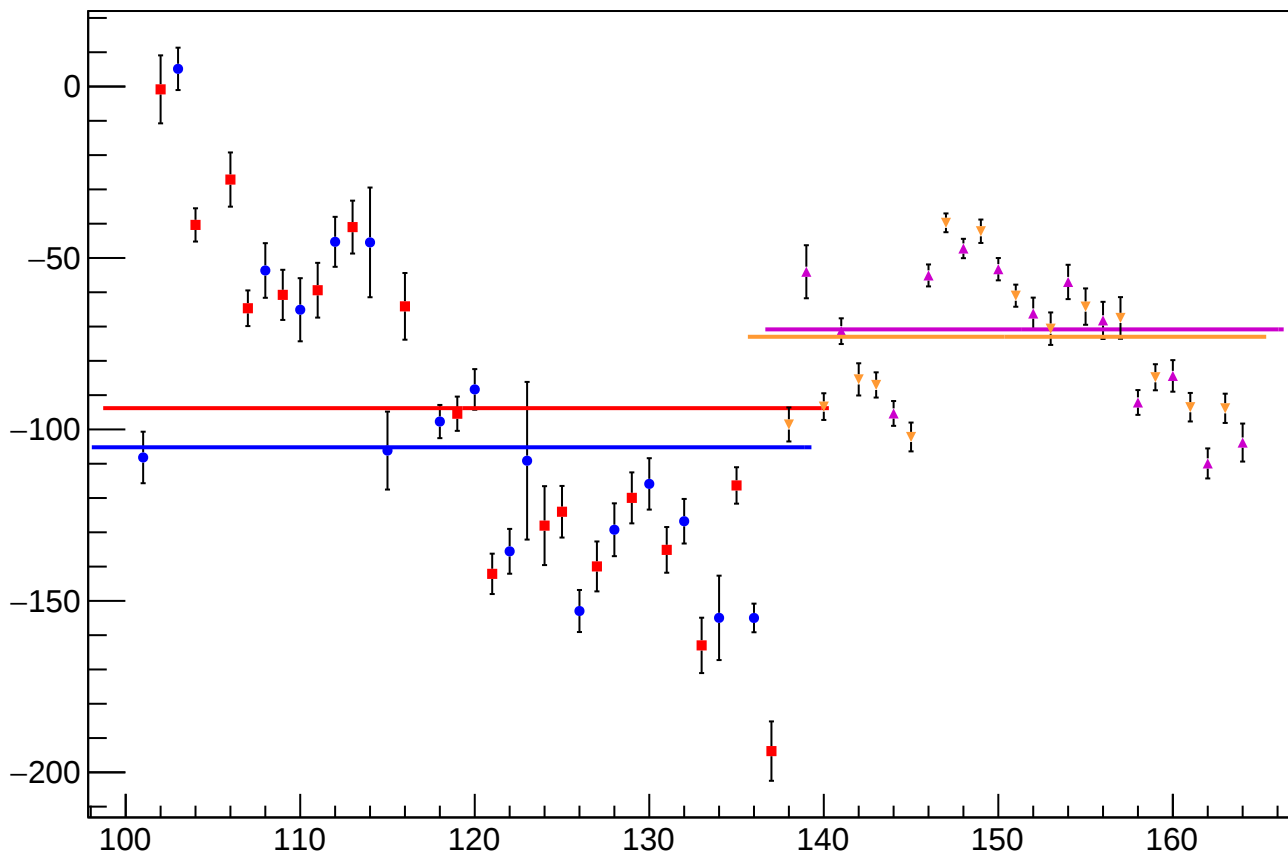
Left In:  $-280.514 \pm 1.333$   $\chi^2/\text{NDF}: 210.1/12$

+ sign  $-285.927 \pm 1.173$   $\chi^2/\text{NDF}: 2392.1/30$

All:  $-286.596 \pm 0.831$   $\chi^2/\text{NDF}: 4964.9/61$

- sign  $-287.272 \pm 1.179$   $\chi^2/\text{NDF}: 2572.1/30$

# 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:  $-72.978 \pm 1.062$   $\chi^2/\text{NDF}$ : 428.1/13

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

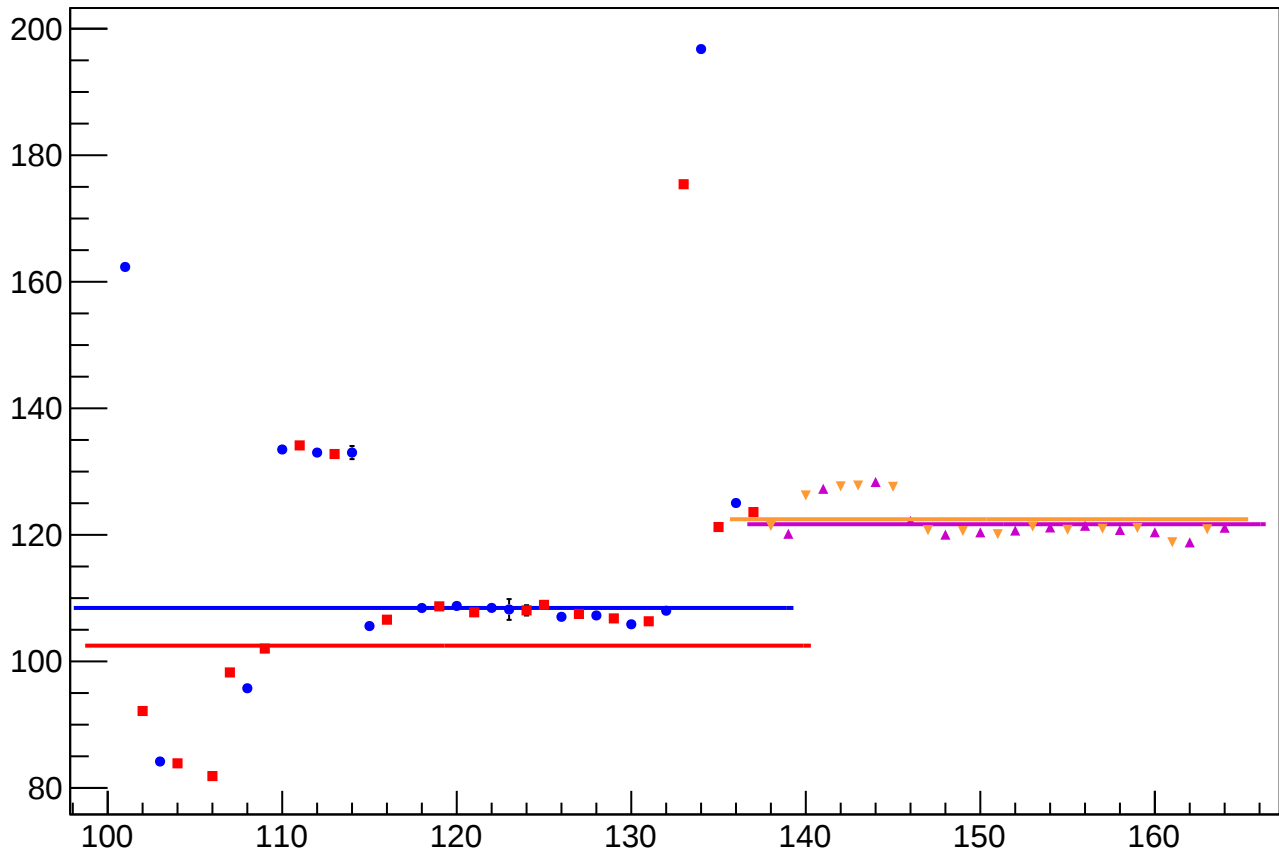
Left In:  $-70.821 \pm 1.111$   $\chi^2/\text{NDF}$ : 341.1/12

+ sign  $-82.044 \pm 0.900$   $\chi^2/\text{NDF}$ : 1423.0/30

All:  $-80.163 \pm 0.641$   $\chi^2/\text{NDF}$ : 2726.3/61

- sign  $-78.222 \pm 0.914$   $\chi^2/\text{NDF}$ : 1294.3/30

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 122.471 $\pm$ 0.052  $\chi^2$ /NDF: 3326.4/13

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

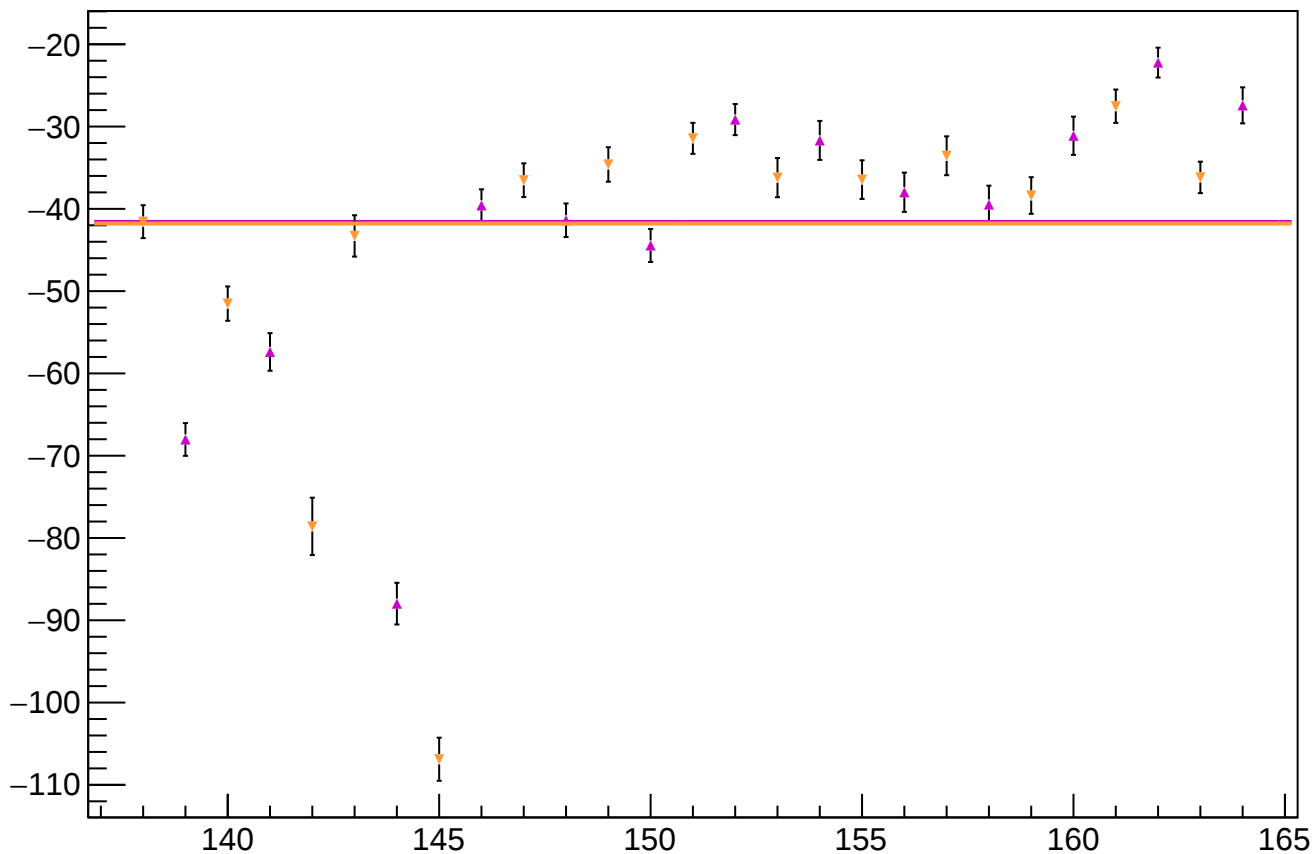
Left In: 121.682 $\pm$ 0.053  $\chi^2$ /NDF: 2557.5/12

+ sign 118.608 $\pm$ 0.045  $\chi^2$ /NDF: 96406.3/30

All: 117.187 $\pm$ 0.031  $\chi^2$ /NDF: 194181.9/61

- sign 115.791 $\pm$ 0.044  $\chi^2$ /NDF: 95755.0/30

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -41.786+/-0.590  $\chi^2/\text{NDF}$ : 883.3/13

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

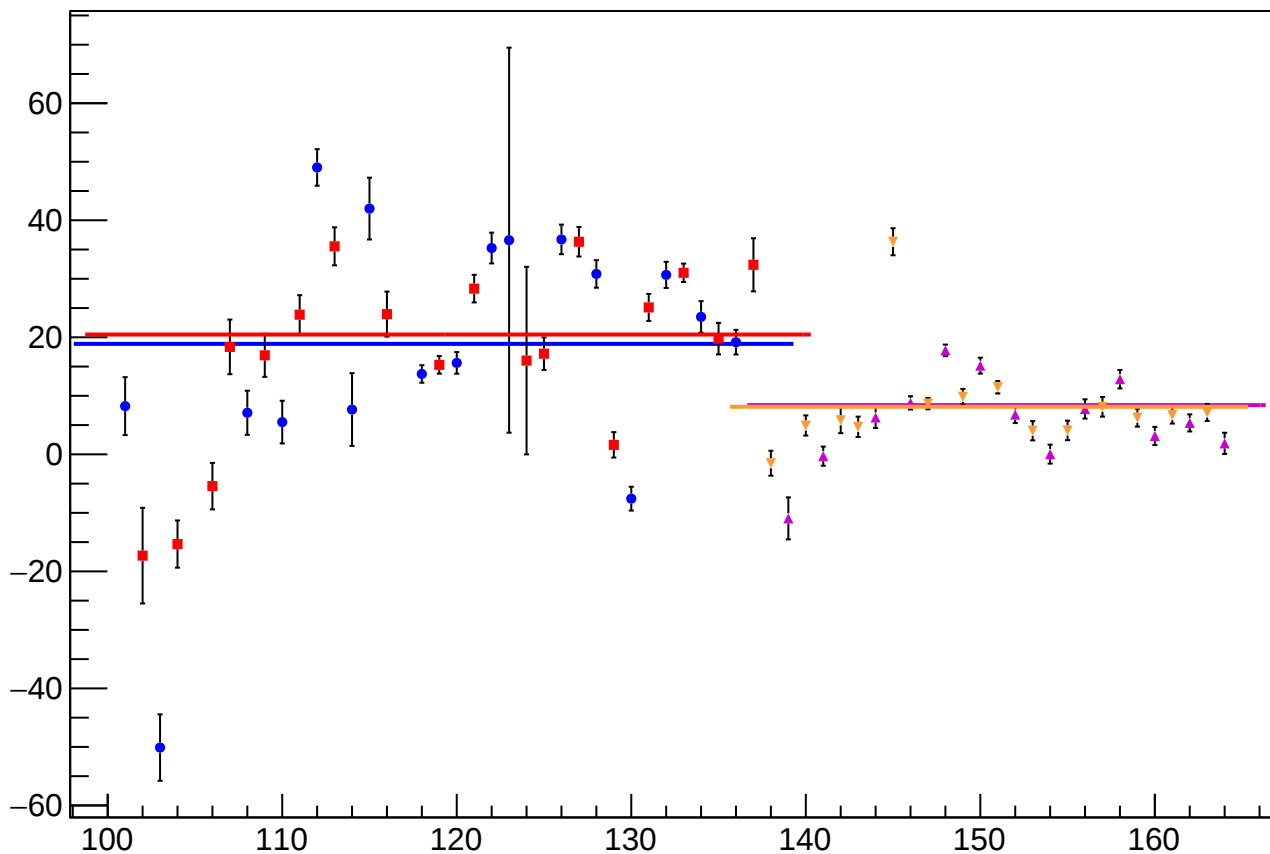
Left In: -41.590+/-0.590  $\chi^2/\text{NDF}$ : 801.7/12

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

All: -41.688+/-0.417  $\chi^2/\text{NDF}$ : 1685.0/26

- 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:  $8.131 \pm 0.400$   $\chi^2/\text{NDF}$ : 204.7/13

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

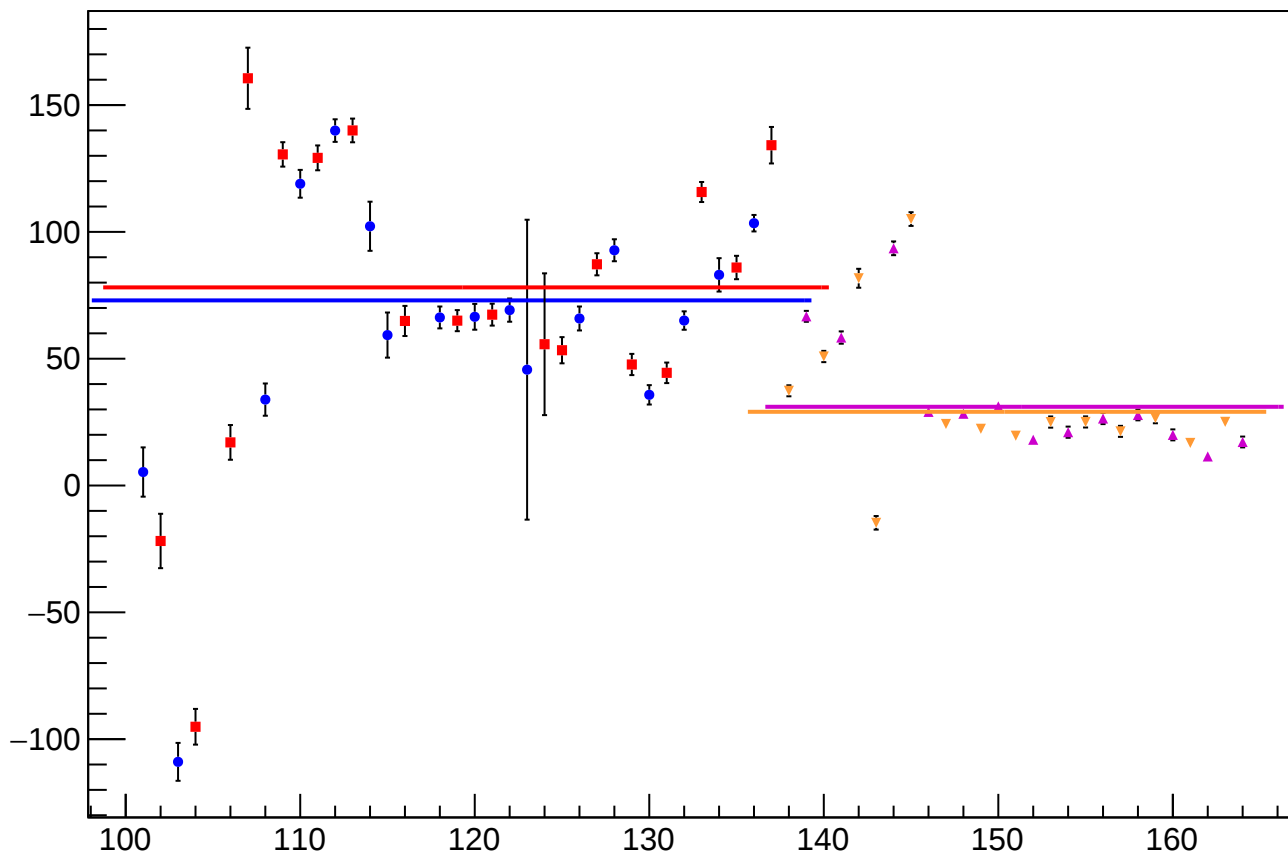
Left In:  $8.409 \pm 0.411$   $\chi^2/\text{NDF}$ : 237.1/12

+ sign  $11.124 \pm 0.340$   $\chi^2/\text{NDF}$ : 1025.7/30

All:  $11.509 \pm 0.243$   $\chi^2/\text{NDF}$ : 1877.4/61

- sign  $11.909 \pm 0.347$   $\chi^2/\text{NDF}$ : 849.1/30

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 72.992 $\pm$ 1.230  $\chi^2/\text{NDF}$ : 1205.5/16

Left Out: 29.067 $\pm$ 0.575  $\chi^2/\text{NDF}$ : 1477.4/13

Right Out: 78.119 $\pm$ 1.224  $\chi^2/\text{NDF}$ : 1546.8/17

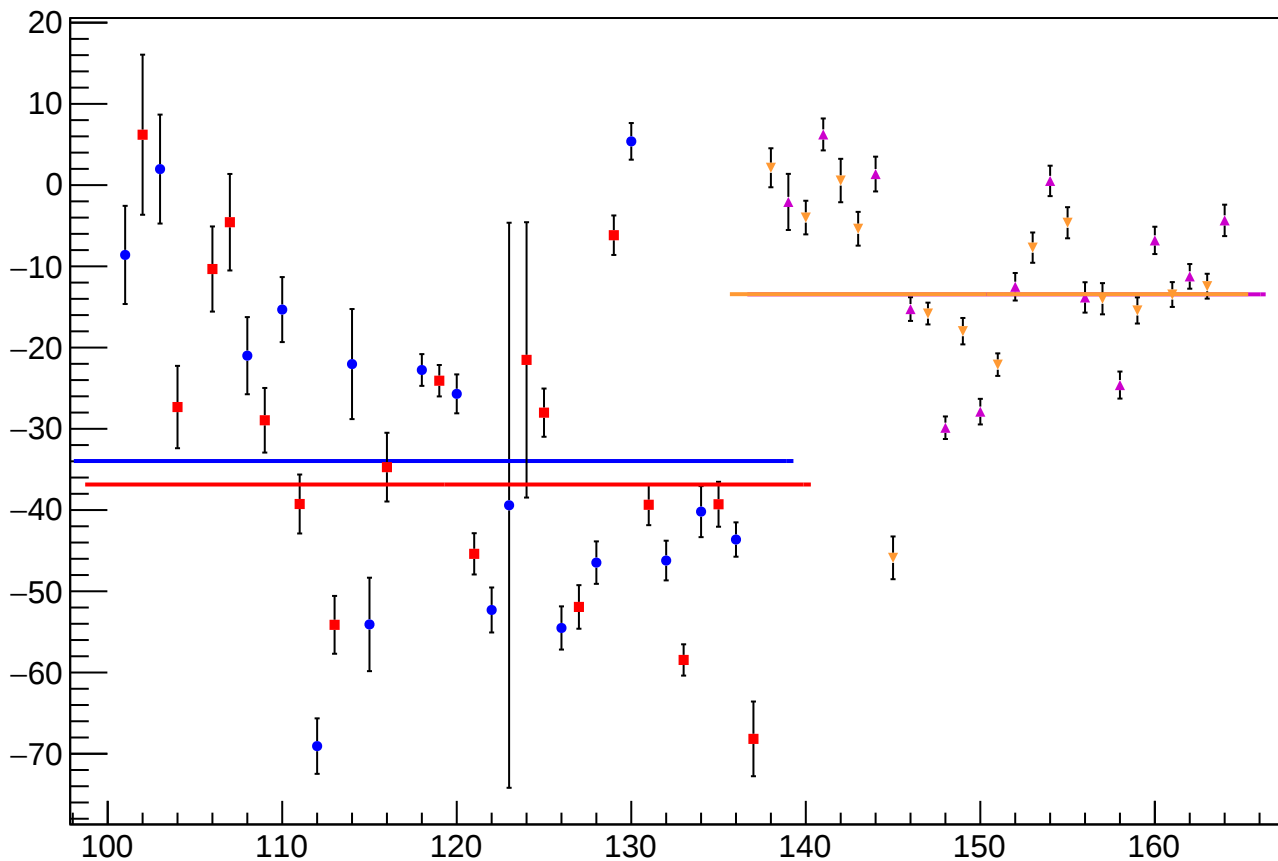
Left In: 31.044 $\pm$ 0.571  $\chi^2/\text{NDF}$ : 1207.4/12

+ sign 36.947 $\pm$ 0.521  $\chi^2/\text{NDF}$ : 3729.4/30

All: 38.215 $\pm$ 0.367  $\chi^2/\text{NDF}$ : 7710.1/61

- sign 39.467 $\pm$ 0.518  $\chi^2/\text{NDF}$ : 3968.9/30

# 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:  $-13.425 \pm 0.474$   $\chi^2/\text{NDF}$ : 340.0/13

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}$ : 535.3/17

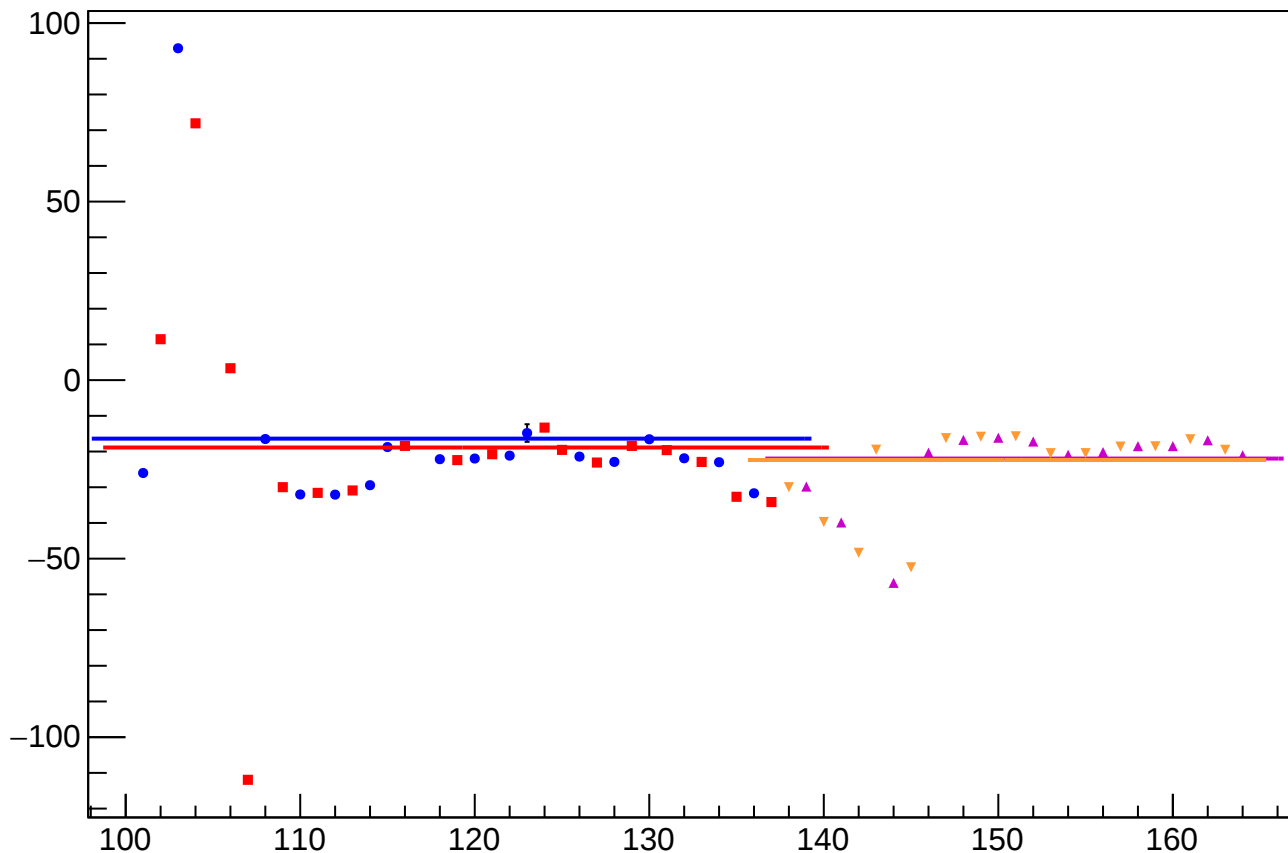
Left In:  $-13.446 \pm 0.483$   $\chi^2/\text{NDF}$ : 525.2/12

+ sign  $-19.431 \pm 0.399$   $\chi^2/\text{NDF}$ : 1610.7/30

All:  $-19.948 \pm 0.284$   $\chi^2/\text{NDF}$ : 3380.5/61

- sign  $-20.480 \pm 0.404$   $\chi^2/\text{NDF}$ : 1766.4/30

# 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:  $-22.372 \pm 0.023$   $\chi^2/\text{NDF}: 182119.3/13$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

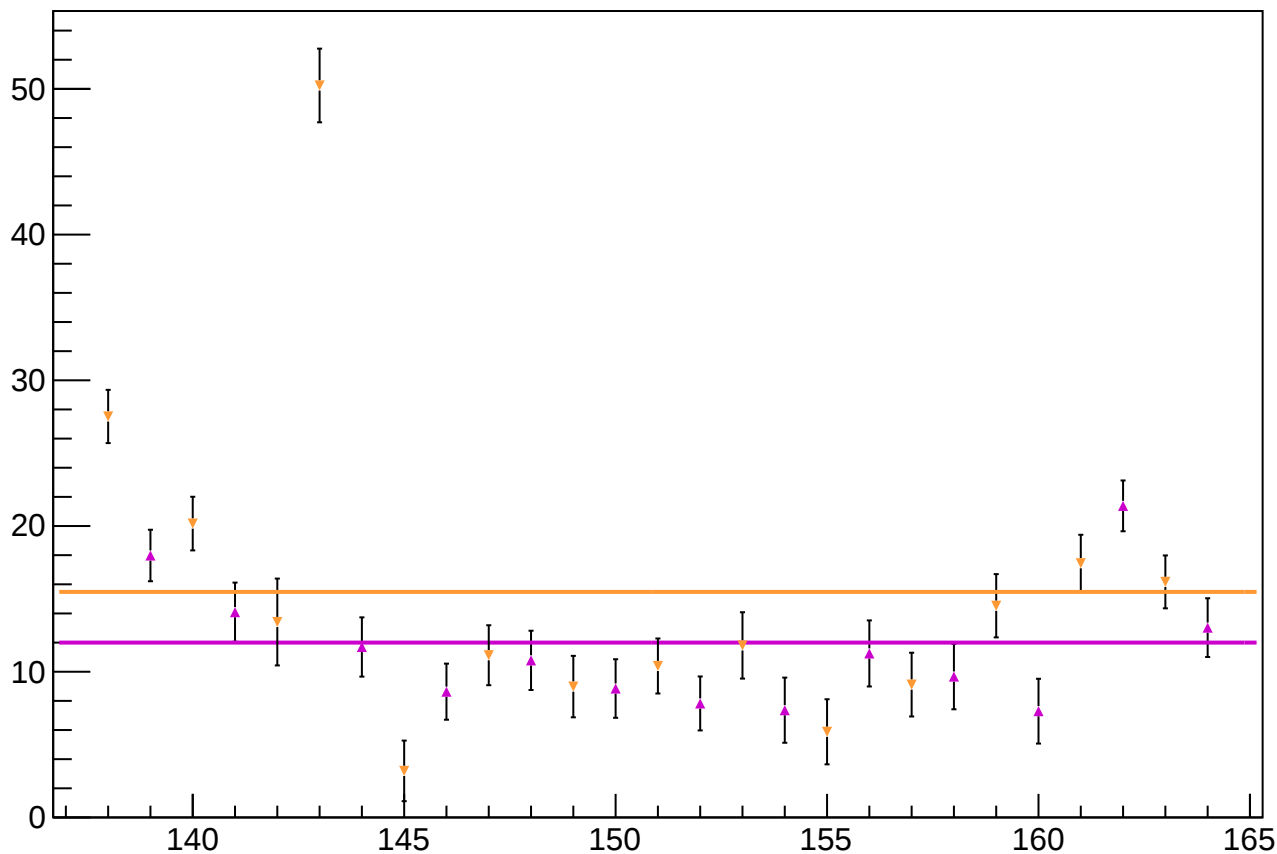
Left In:  $-21.967 \pm 0.022$   $\chi^2/\text{NDF}: 154244.2/12$

+ sign  $-21.152 \pm 0.020$   $\chi^2/\text{NDF}: 670844.6/30$

All:  $-21.257 \pm 0.014$   $\chi^2/\text{NDF}: 1262268.4/61$

- sign  $-21.361 \pm 0.020$   $\chi^2/\text{NDF}: 591369.2/30$

# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 15.479 $\pm$ 0.558  $\chi^2$ /NDF:326.4/13

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

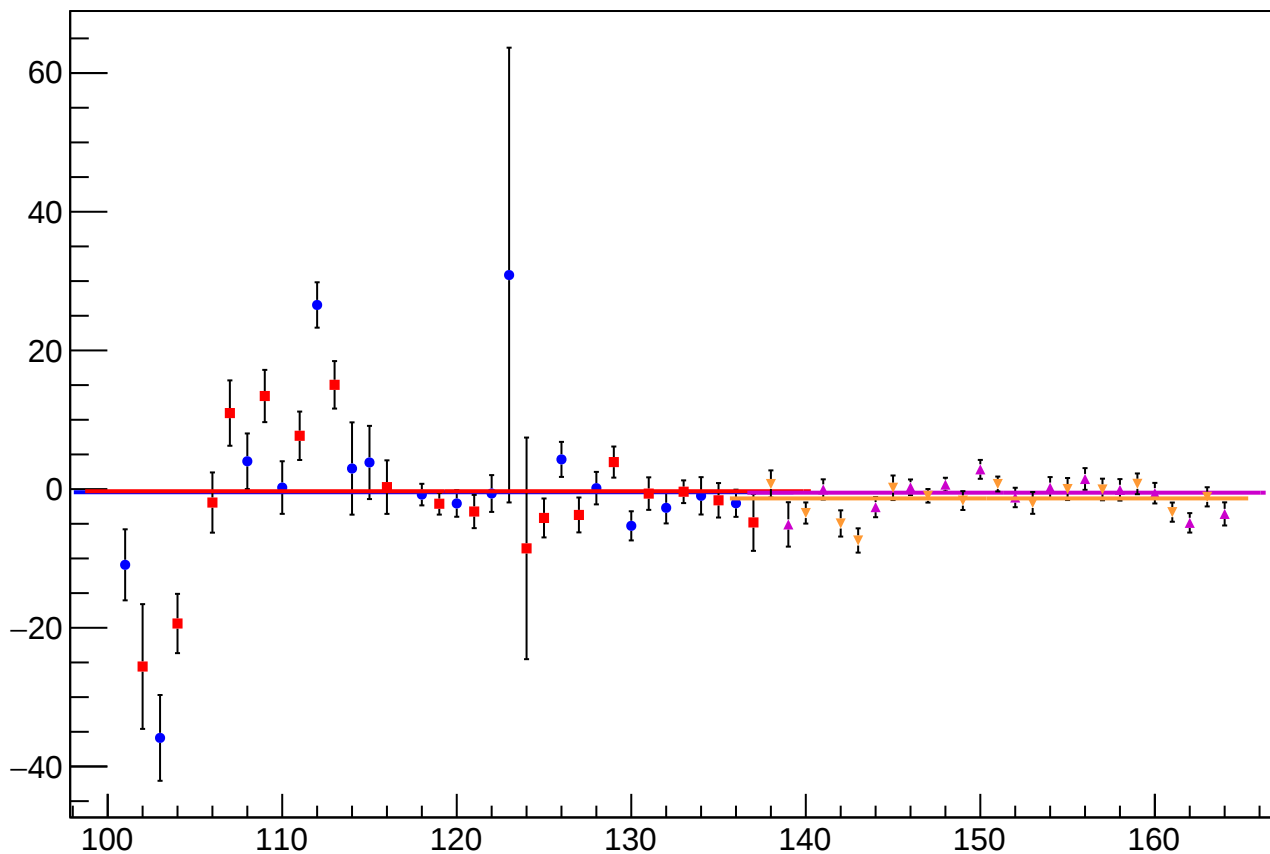
Left In: 12.000 $\pm$ 0.557  $\chi^2$ /NDF:62.7/12

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

All: 13.737 $\pm$ 0.394  $\chi^2$ /NDF: 408.6/26

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $-1.342 \pm 0.384$      $\chi^2/\text{NDF}: 29.0/13$

Right Out:  $-0.305 \pm 0.657$      $\chi^2/\text{NDF}$ : 84.1/17

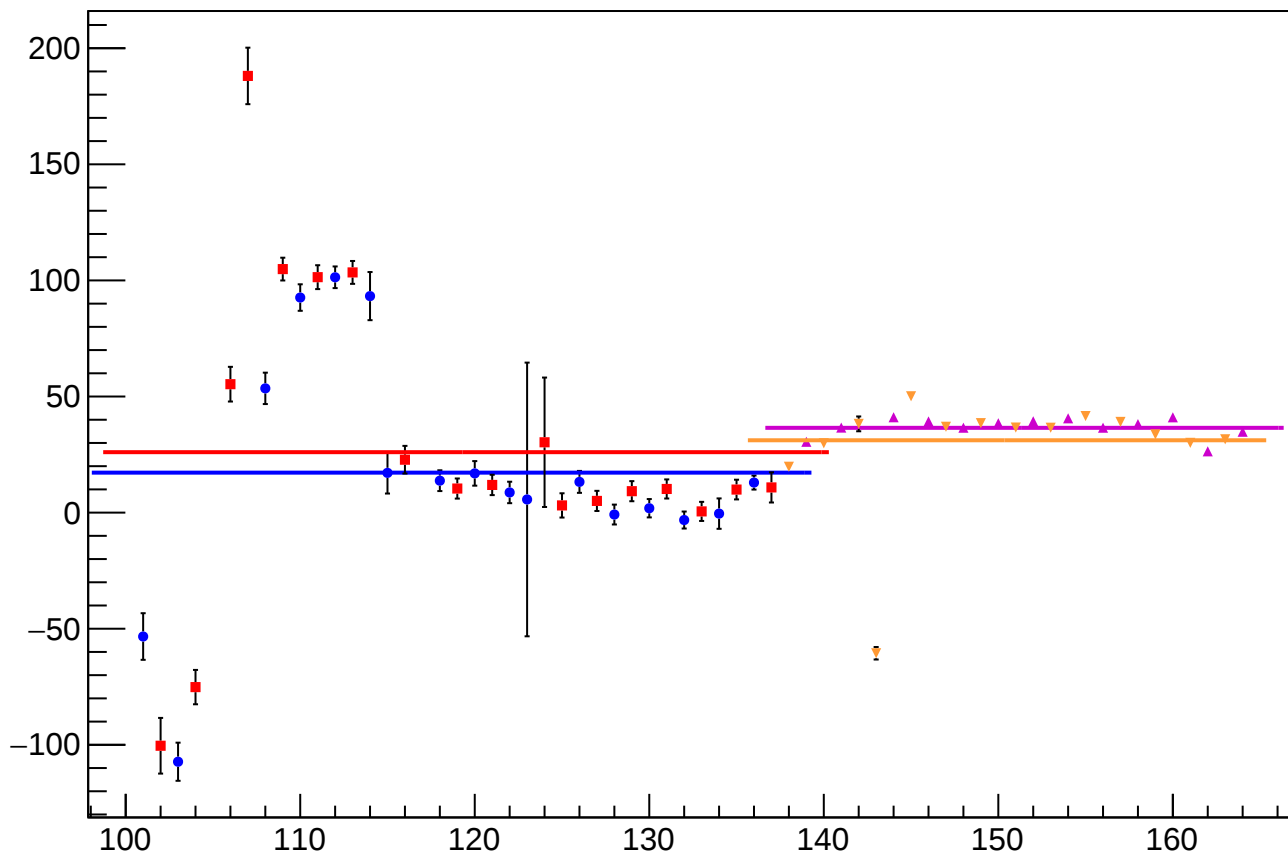
Left In: -0.516+/-0.393     $\chi^2/\text{NDF}$ :27.3/12

+ sign -1.114 $\pm$ 0.331  $\chi^2$ /NDF: 149.9/30

All:  $-0.793 \pm 0.236$   $\chi^2/\text{NDF}$ : 263.3/61

- sign  $-0.460 \pm 0.337$   $\chi^2/\text{NDF}$ : 111.5/30

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.218 $\pm$ 1.241  $\chi^2$ /NDF: 940.1/16

Left Out: 31.155 $\pm$ 0.546  $\chi^2$ /NDF:1352.5/13

Right Out: 26.032 $\pm$ 1.244  $\chi^2$ /NDF: 1366.0/17

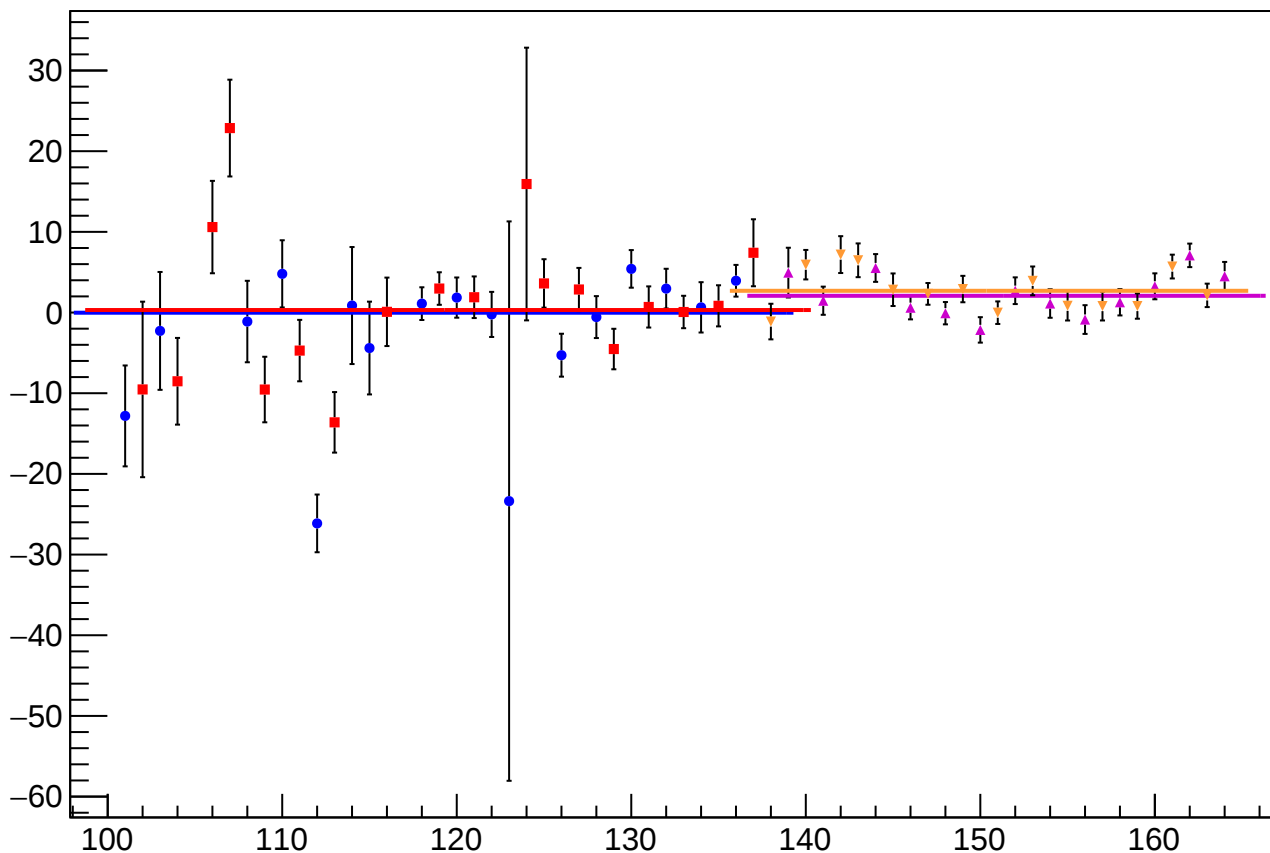
Left In: 36.514 $\pm$ 0.542  $\chi^2$ /NDF:66.6/12

+ sign 28.895 $\pm$ 0.500  $\chi^2$ /NDF: 2398.3/30

All: 31.888 $\pm$ 0.352  $\chi^2$ /NDF: 3961.8/61

- sign 34.844 $\pm$ 0.497  $\chi^2$ /NDF: 1492.2/30

# 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:  $2.696 \pm 0.453$   $\chi^2/\text{NDF}$ : 25.5/13

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

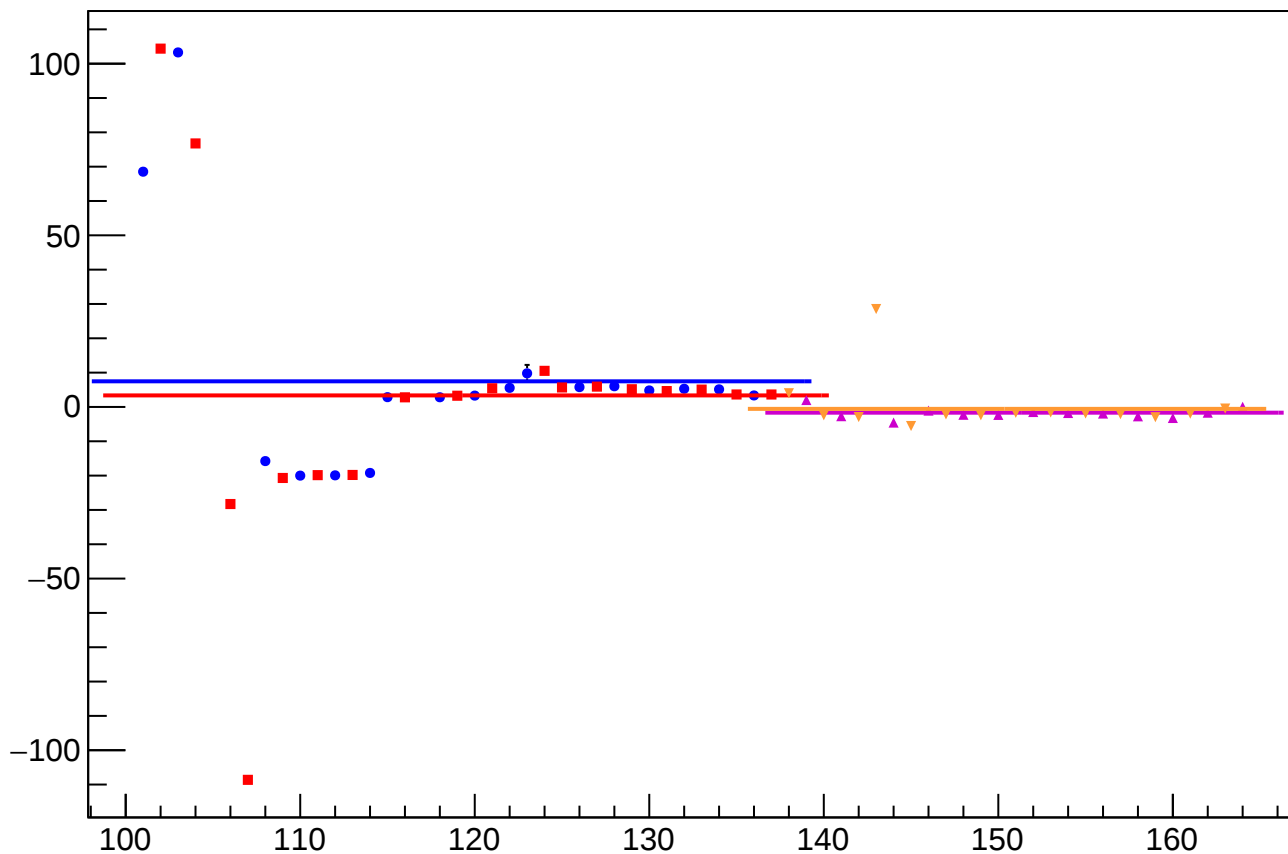
Left In:  $2.076 \pm 0.460$   $\chi^2/\text{NDF}$ : 33.3/12

+ sign  $1.962 \pm 0.387$   $\chi^2/\text{NDF}$ : 111.1/30

All:  $1.780 \pm 0.275$   $\chi^2/\text{NDF}$ : 202.9/61

- sign  $1.593 \pm 0.392$   $\chi^2/\text{NDF}$ : 91.4/30

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 7.467 $\pm$ 0.044  $\chi^2$ /NDF: 355890.1/16

Left Out: -0.557 $\pm$ 0.021  $\chi^2$ /NDF: 83526.0/13

Right Out: 3.362 $\pm$ 0.046  $\chi^2$ /NDF: 504811.4/17

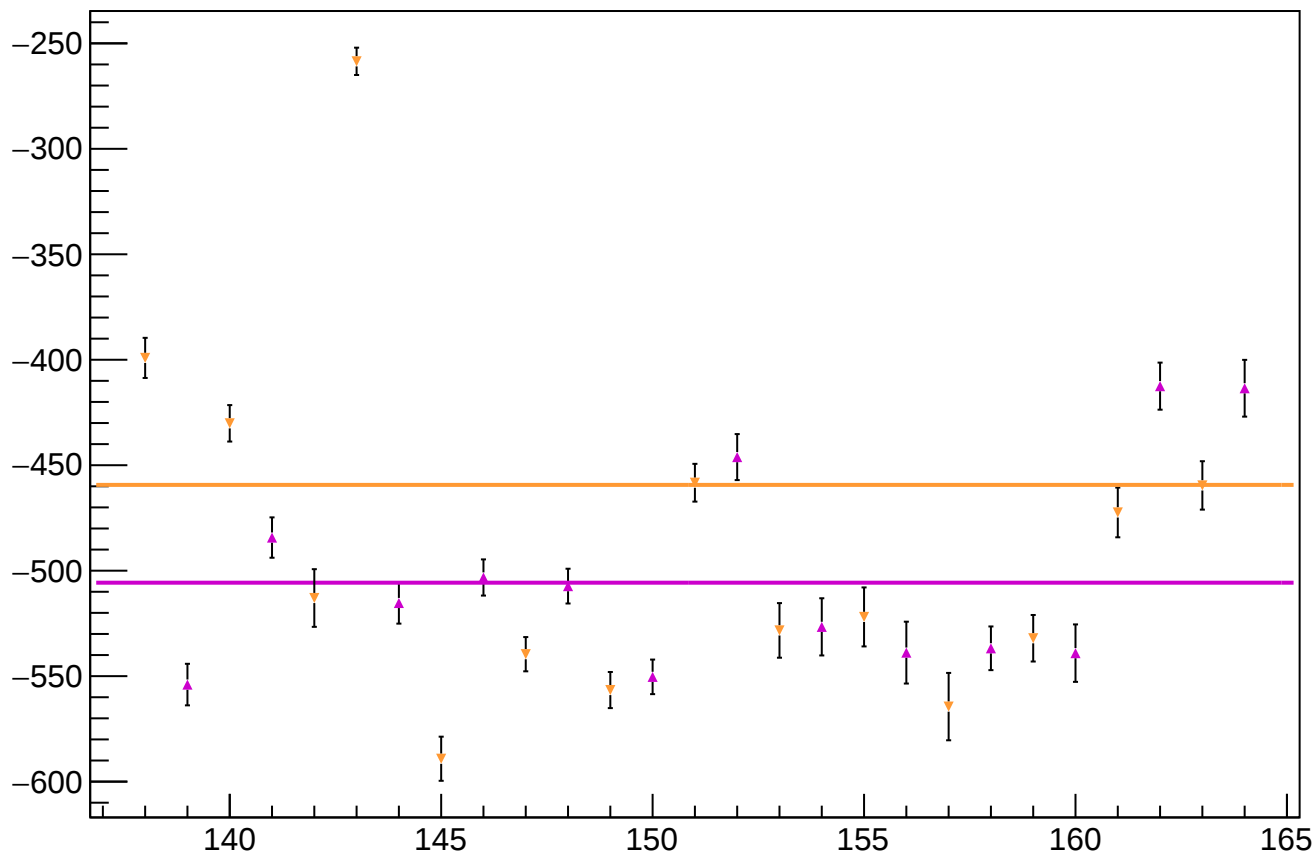
Left In: -1.669 $\pm$ 0.021  $\chi^2$ /NDF: 5274.4/12

+ sign 0.939 $\pm$ 0.019  $\chi^2$ /NDF: 465904.0/30

All: 0.080 $\pm$ 0.014  $\chi^2$ /NDF: 990004.3/61

- sign -0.778 $\pm$ 0.019  $\chi^2$ /NDF: 520102.9/30

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -459.328+/-2.653  $\chi^2/\text{NDF}$ : 1545.4/13

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

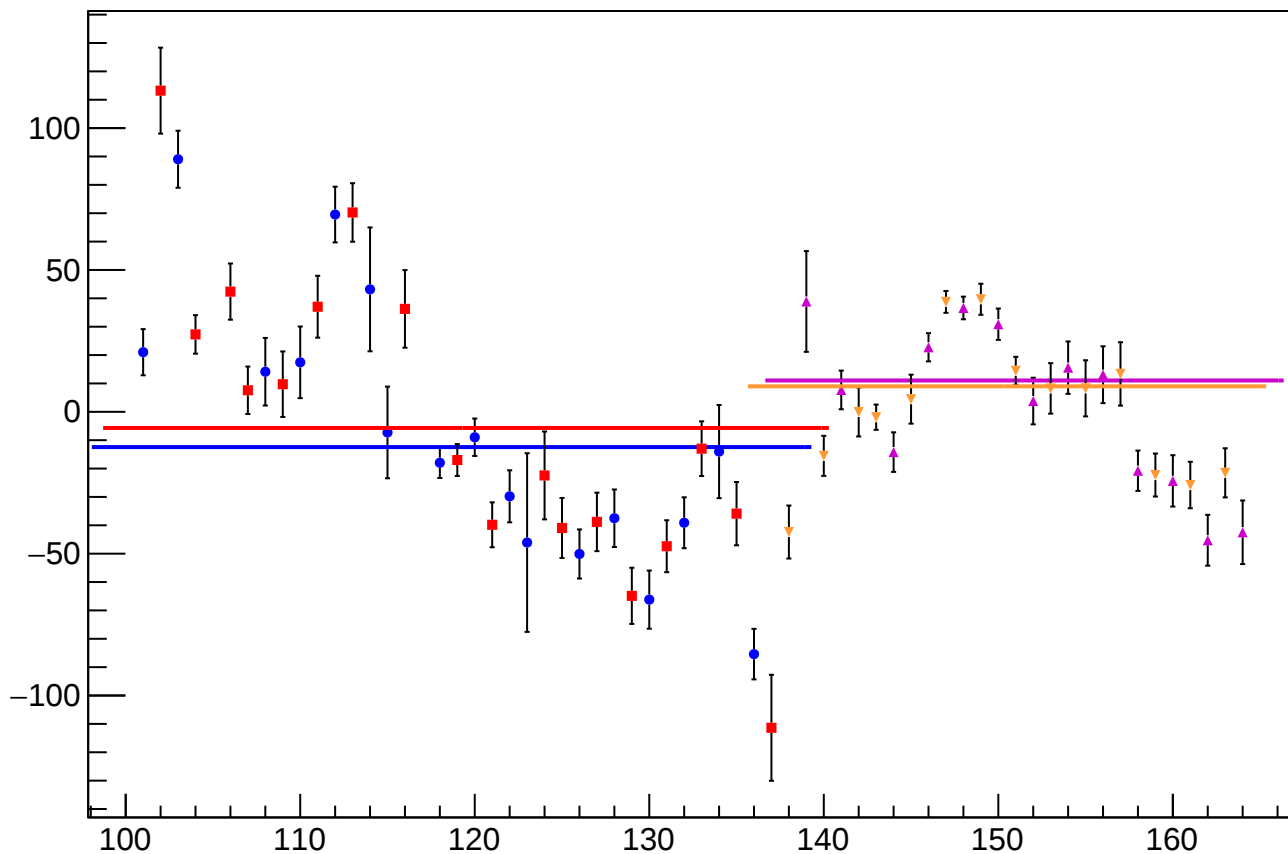
Left In: -505.693+/-2.867  $\chi^2/\text{NDF}$ : 228.8/12

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

All: -480.716+/-1.947  $\chi^2/\text{NDF}$ : 1915.1/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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:  $8.986 \pm 1.748$   $\chi^2/\text{NDF}$ : 189.7/13

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

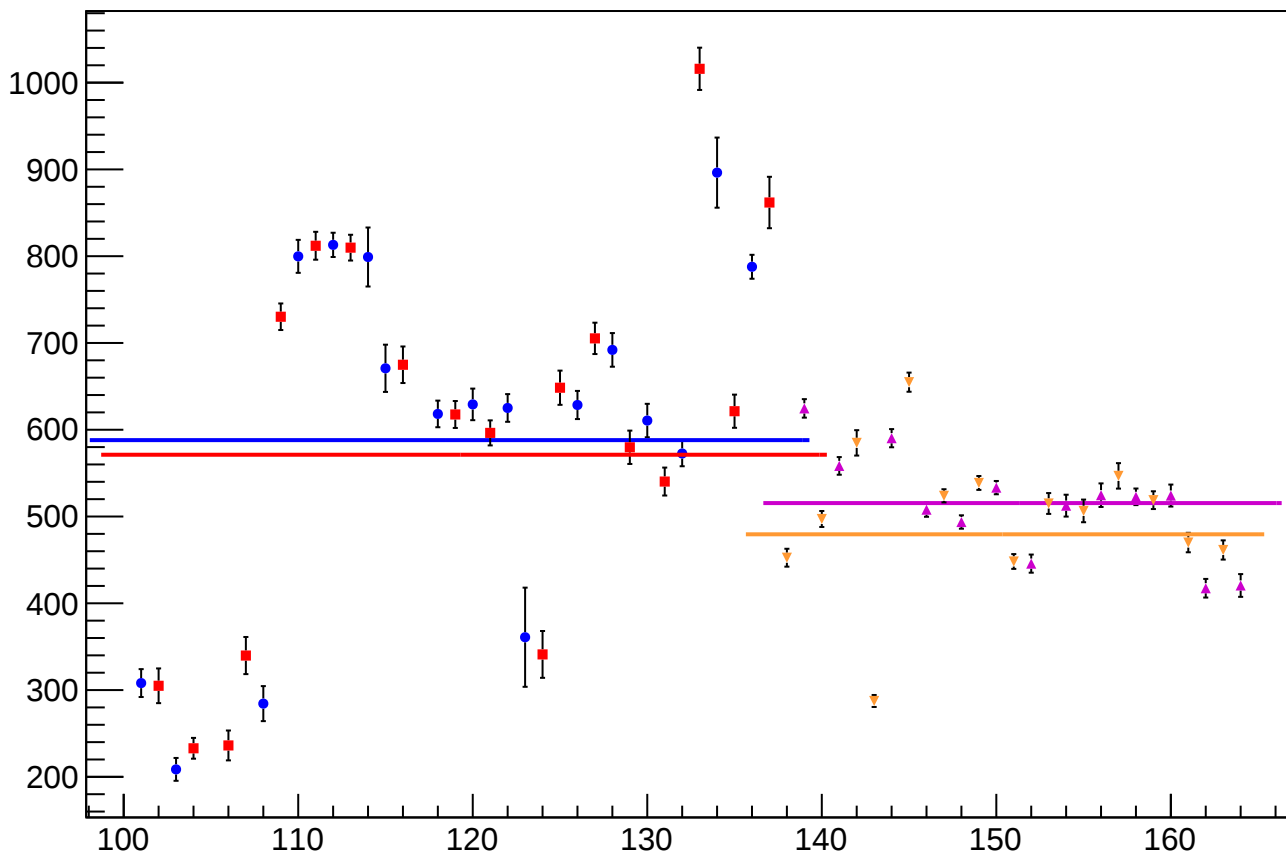
Left In:  $11.051 \pm 1.924$   $\chi^2/\text{NDF}$ : 174.0/12

+ sign  $1.210 \pm 1.395$   $\chi^2/\text{NDF}$ : 584.4/30

All:  $2.550 \pm 1.010$   $\chi^2/\text{NDF}$ : 1125.7/61

- sign  $4.029 \pm 1.466$   $\chi^2/\text{NDF}$ : 539.4/30

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 588.034 $\pm$ 4.329  $\chi^2/\text{NDF}$ : 2127.7/16

Left Out: 479.496 $\pm$ 2.627  $\chi^2/\text{NDF}$ :1243.2/13

Right Out: 571.196 $\pm$ 4.151  $\chi^2/\text{NDF}$ : 2680.4/17

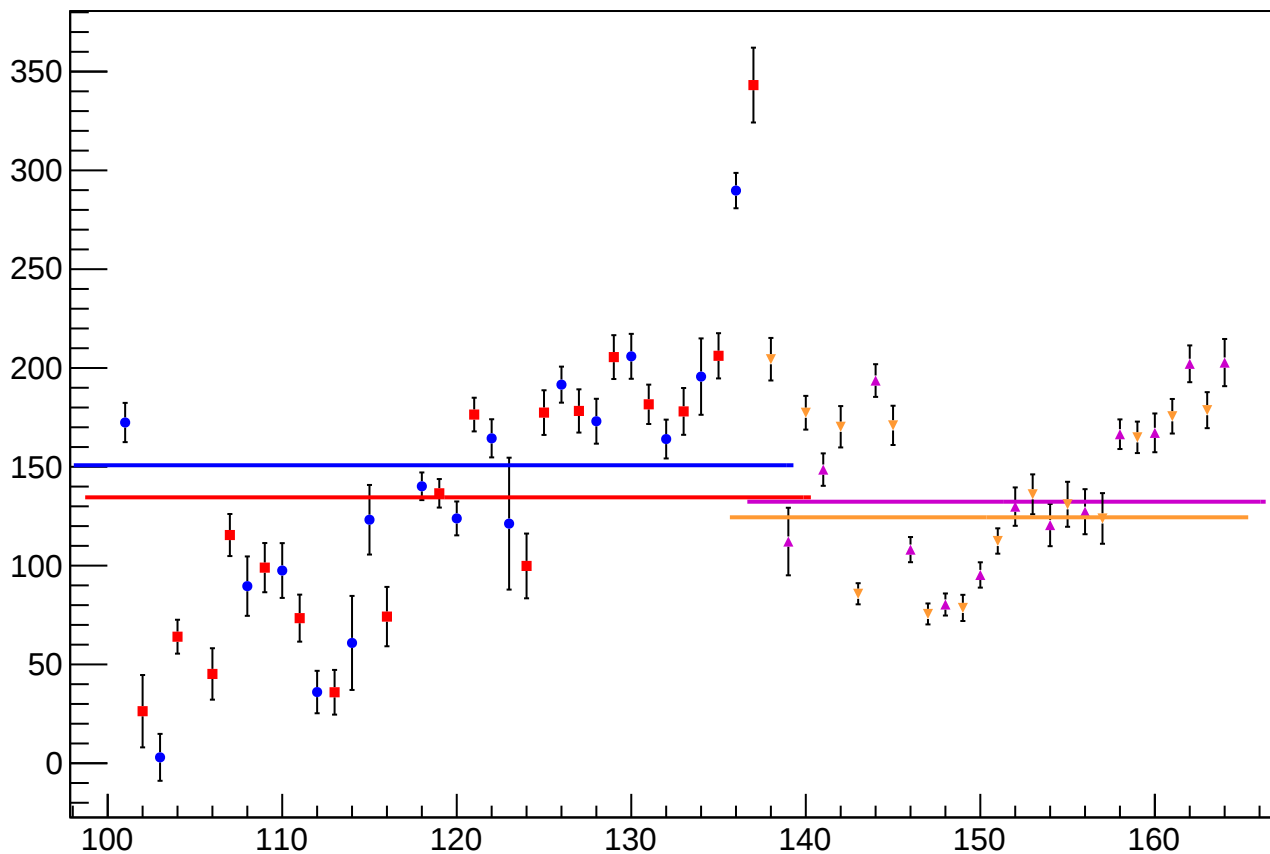
Left In: 515.486 $\pm$ 2.786  $\chi^2/\text{NDF}$ :369.7/12

+ sign 508.705 $\pm$ 2.246  $\chi^2/\text{NDF}$ : 3830.4/30

All: 520.391 $\pm$ 1.611  $\chi^2/\text{NDF}$ : 7060.5/61

- sign 532.792 $\pm$ 2.313  $\chi^2/\text{NDF}$ : 3174.3/30

# 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:  $124.450 \pm 2.114$   $\chi^2/\text{NDF}: 420.6/13$

Right Out:  $134.549 \pm 2.619$   $\chi^2/\text{NDF}: 576.2/17$

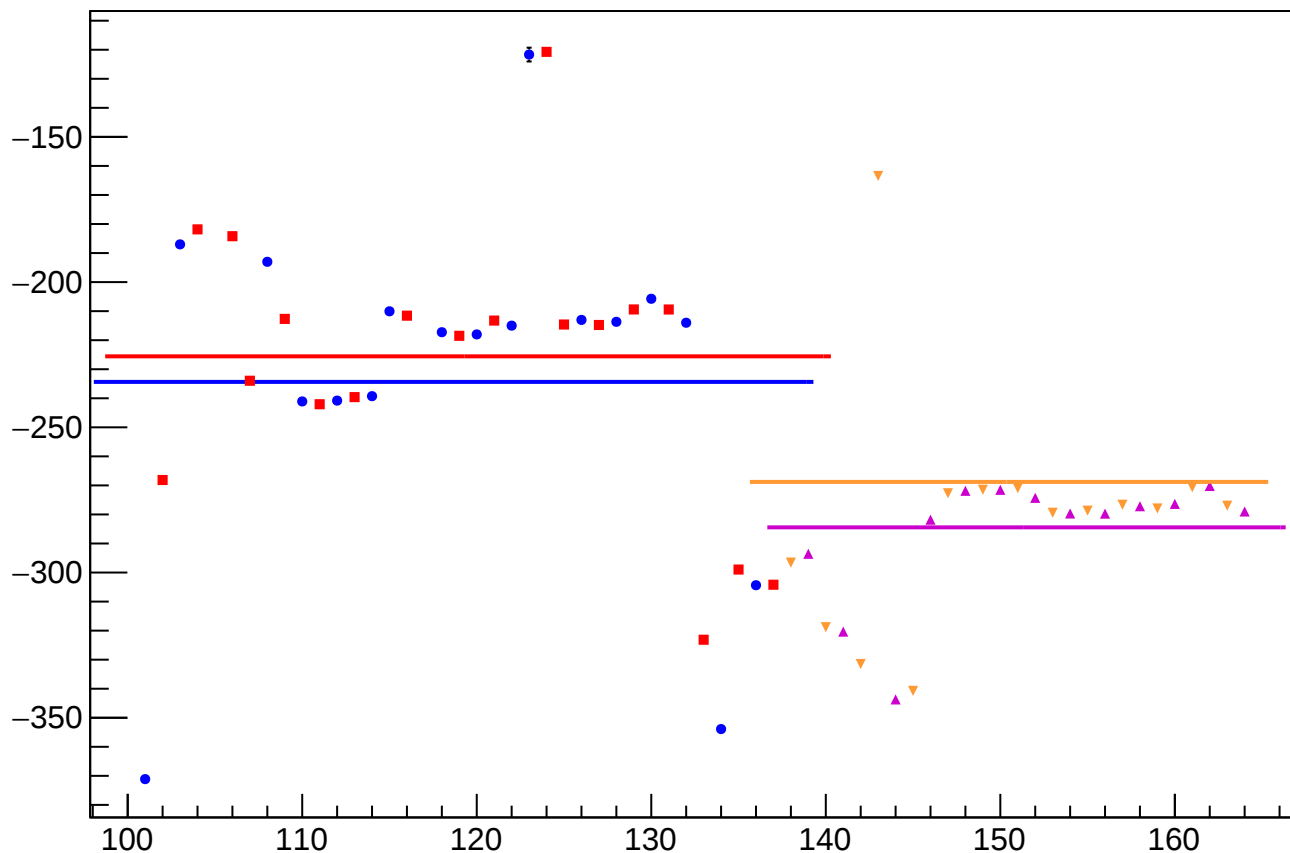
Left In:  $132.338 \pm 2.308$   $\chi^2/\text{NDF}: 320.7/12$

+ sign  $134.553 \pm 1.660$   $\chi^2/\text{NDF}: 1113.3/30$

All:  $133.955 \pm 1.198$   $\chi^2/\text{NDF}: 2010.9/61$

- sign  $133.304 \pm 1.732$   $\chi^2/\text{NDF}: 897.3/30$

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -234.360+/-0.148  $\chi^2/\text{NDF}$ : 145159.1/16

Left Out: -268.796+/-0.106  $\chi^2/\text{NDF}$ : 204723.0/13

Right Out: -225.561+/-0.142  $\chi^2/\text{NDF}$ : 92955.0/17

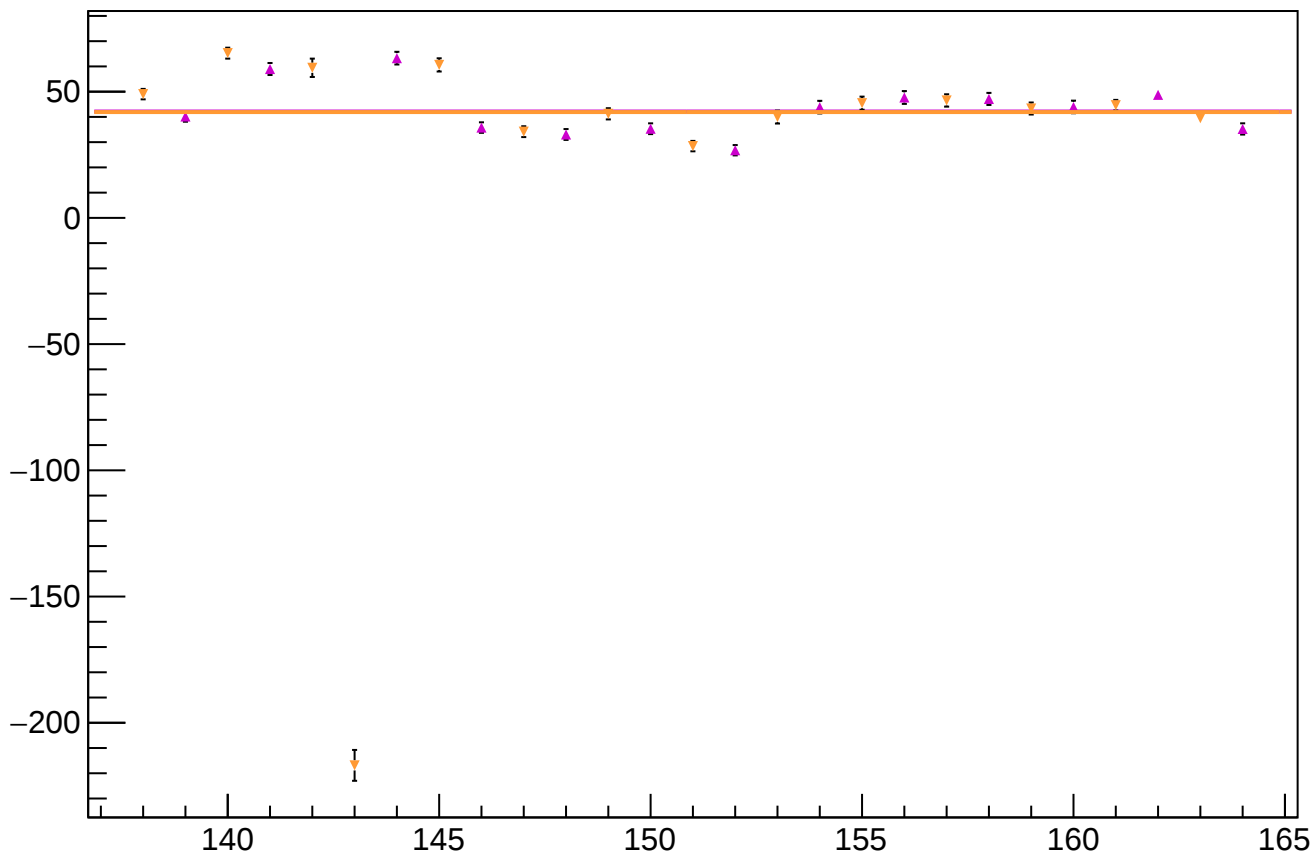
Left In: -284.441+/-0.111  $\chi^2/\text{NDF}$ : 30765.3/12

+ sign -257.202+/-0.086  $\chi^2/\text{NDF}$ : 385561.6/30

All: -259.593+/-0.061  $\chi^2/\text{NDF}$ : 617534.4/61

- sign -262.059+/-0.088  $\chi^2/\text{NDF}$ : 230408.3/30

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 41.919+/-0.637  $\chi^2/\text{NDF}$ :2060.1/13

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

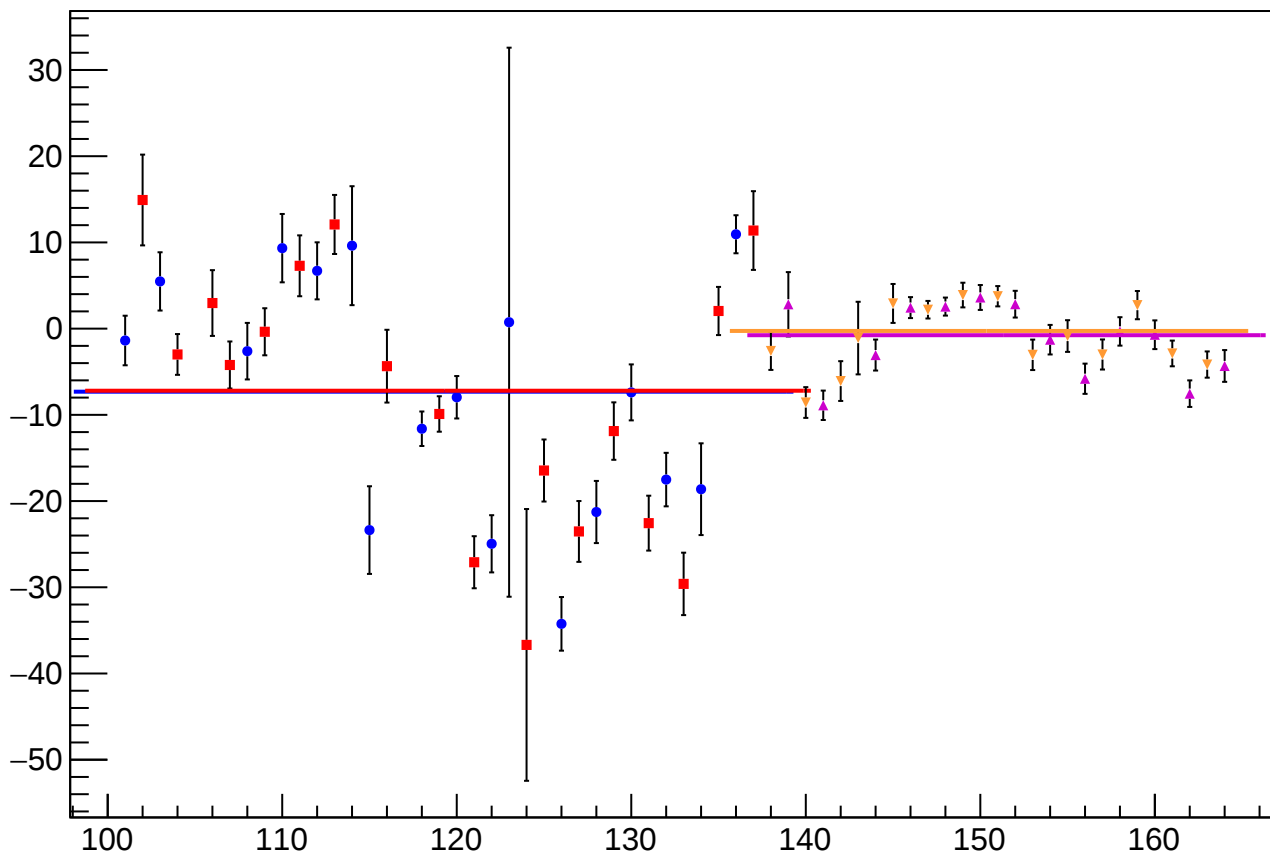
Left In: 42.126+/-0.620  $\chi^2/\text{NDF}$ :246.9/12

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

All: 42.025+/-0.444  $\chi^2/\text{NDF}$ : 2307.1/26

- 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:  $-0.268 \pm 0.433$   $\chi^2/\text{NDF}$ : 75.2/13

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

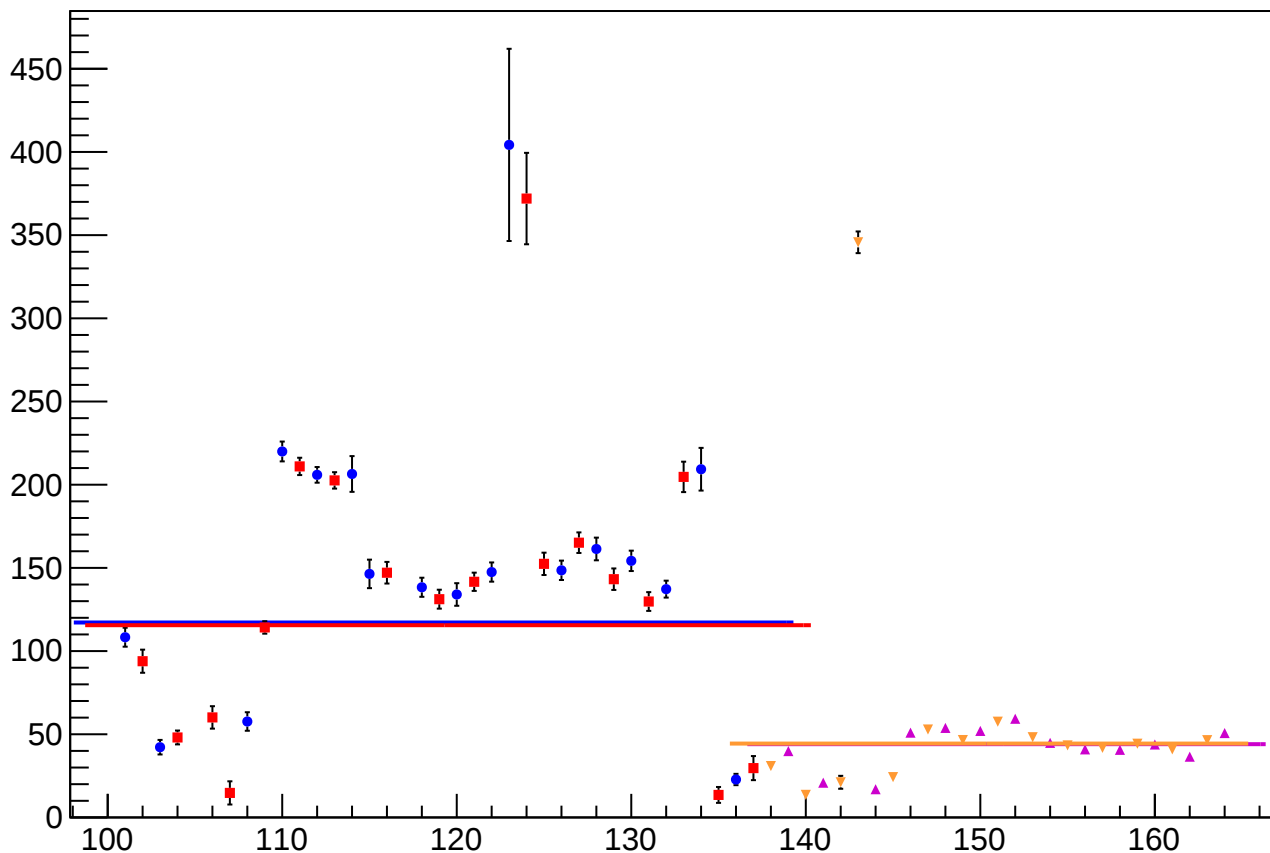
Left In:  $-0.763 \pm 0.433$   $\chi^2/\text{NDF}$ : 88.5/12

+ sign  $-1.927 \pm 0.379$   $\chi^2/\text{NDF}$ : 416.6/30

All:  $-2.133 \pm 0.267$   $\chi^2/\text{NDF}$ : 811.7/61

- sign  $-2.337 \pm 0.377$   $\chi^2/\text{NDF}$ : 394.6/30

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.177 $\pm$ 1.411  $\chi^2$ /NDF: 2159.6/16

Left Out: 44.405 $\pm$ 0.619  $\chi^2$ /NDF:2513.0/13

Right Out: 115.556 $\pm$ 1.363  $\chi^2$ /NDF: 2149.2/17

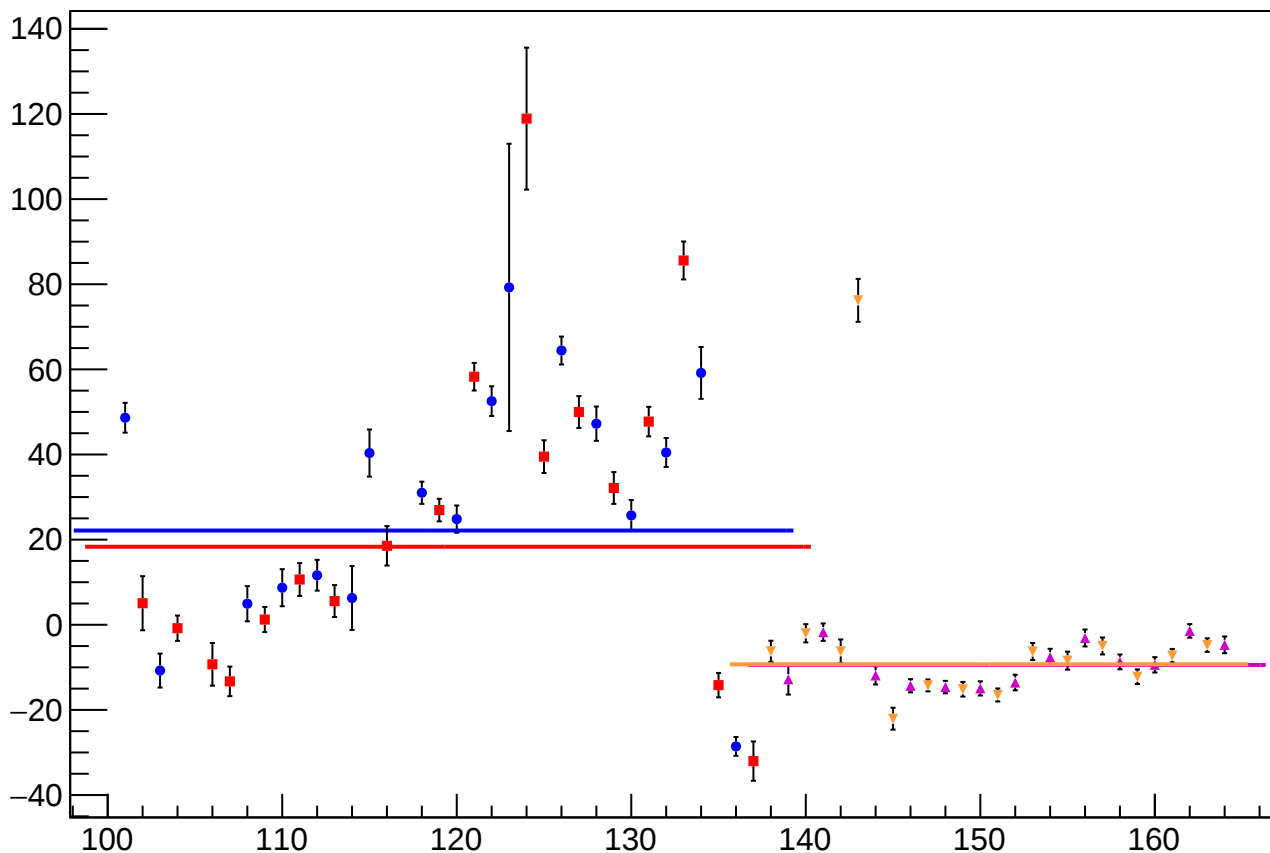
Left In: 44.045 $\pm$ 0.601  $\chi^2$ /NDF:331.2/12

+ sign 56.143 $\pm$ 0.567  $\chi^2$ /NDF: 6902.4/30

All: 55.913 $\pm$ 0.395  $\chi^2$ /NDF: 11686.7/61

- sign 55.696 $\pm$ 0.550  $\chi^2$ /NDF: 4784.0/30

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.136 $\pm$ 0.891  $\chi^2$ /NDF: 1064.1/16

Left Out: -9.299 $\pm$ 0.512  $\chi^2$ /NDF: 391.5/13

Right Out: 18.331 $\pm$ 0.872  $\chi^2$ /NDF: 1070.4/17

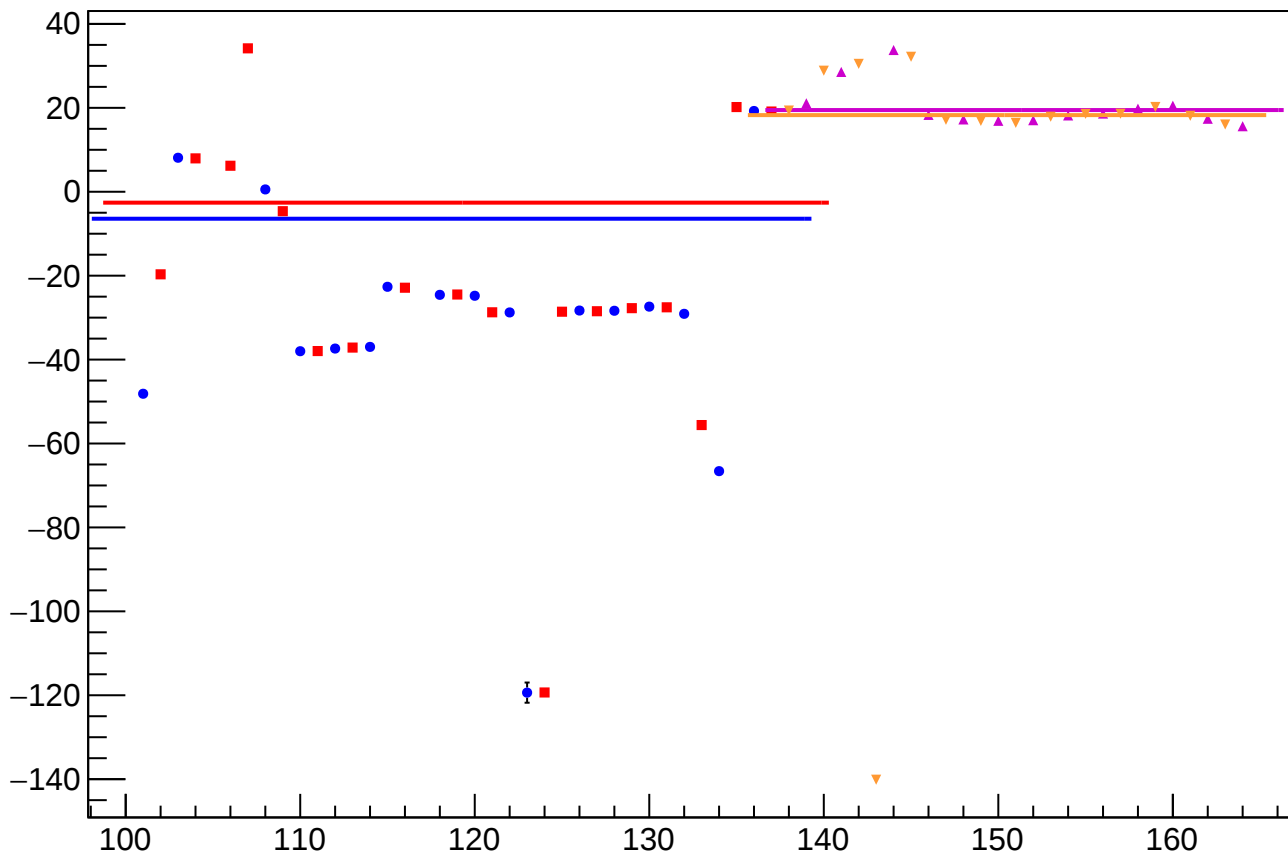
Left In: -9.429 $\pm$ 0.509  $\chi^2$ /NDF: 96.7/12

+ sign -1.502 $\pm$ 0.444  $\chi^2$ /NDF: 2391.3/30

All: -1.947 $\pm$ 0.312  $\chi^2$ /NDF: 4316.6/61

- sign -2.383 $\pm$ 0.439  $\chi^2$ /NDF: 1923.2/30

# 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:  $18.266 \pm 0.024$   $\chi^2/\text{NDF}$ : 401094.9/13

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}$ : 263579.4/17

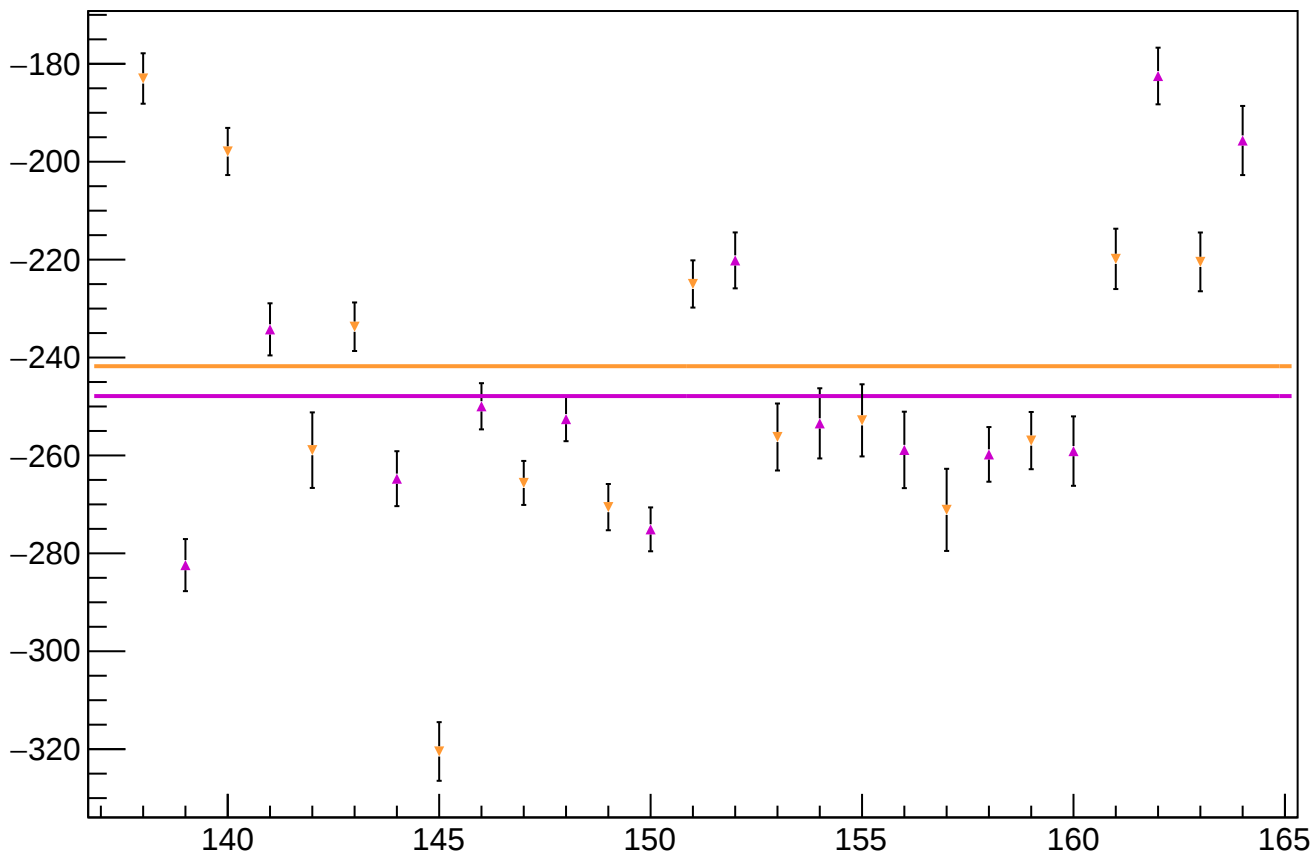
Left In:  $19.473 \pm 0.024$   $\chi^2/\text{NDF}$ : 28989.2/12

+ sign  $12.953 \pm 0.021$   $\chi^2/\text{NDF}$ : 890361.9/30

All:  $13.928 \pm 0.015$   $\chi^2/\text{NDF}$ : 1370821.1/61

- sign  $14.857 \pm 0.021$   $\chi^2/\text{NDF}$ : 476419.7/30

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -241.770+/-1.506  $\chi^2/\text{NDF}$ : 521.6/13

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

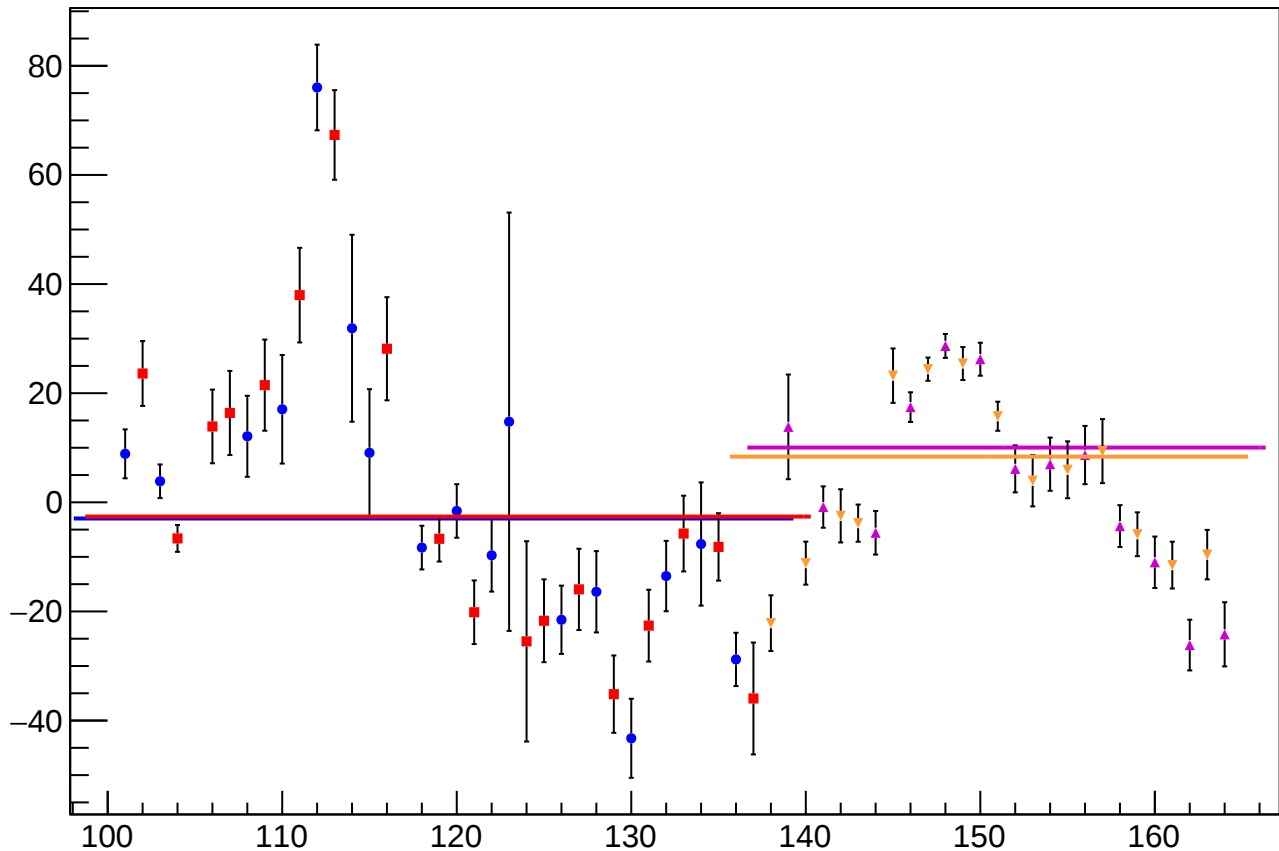
Left In: -247.873+/-1.553  $\chi^2/\text{NDF}$ : 311.4/12

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

All: -244.728+/-1.081  $\chi^2/\text{NDF}$ : 841.0/26

- 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:  $8.377 \pm 0.991$   $\chi^2/\text{NDF}: 233.9/13$

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}: 210.5/17$

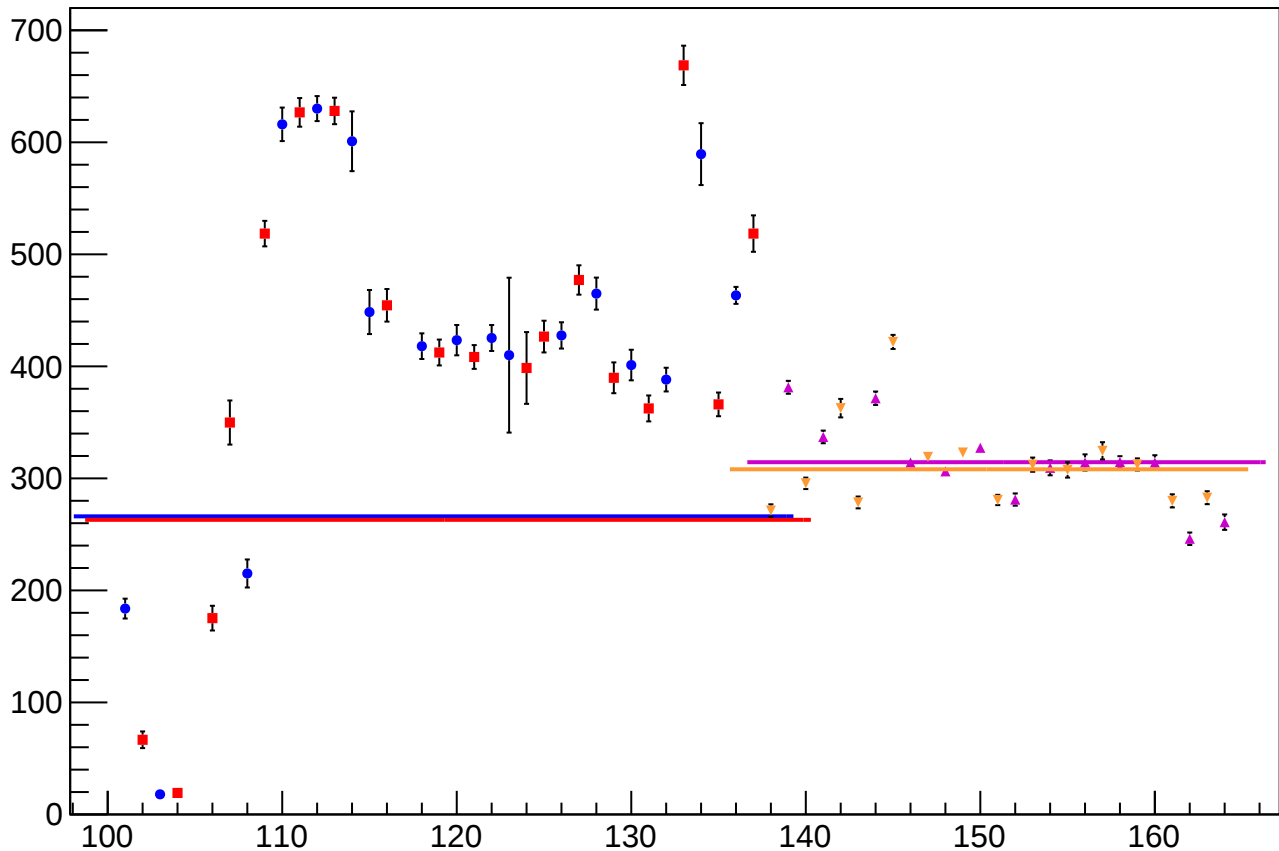
Left In:  $10.034 \pm 1.045$   $\chi^2/\text{NDF}: 262.3/12$

+ sign  $4.772 \pm 0.819$   $\chi^2/\text{NDF}: 479.0/30$

All:  $5.131 \pm 0.585$   $\chi^2/\text{NDF}: 1004.7/61$

- sign  $5.505 \pm 0.837$   $\chi^2/\text{NDF}: 525.2/30$

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 308.110 $\pm$ 1.480  $\chi^2$ /NDF:552.6/13

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

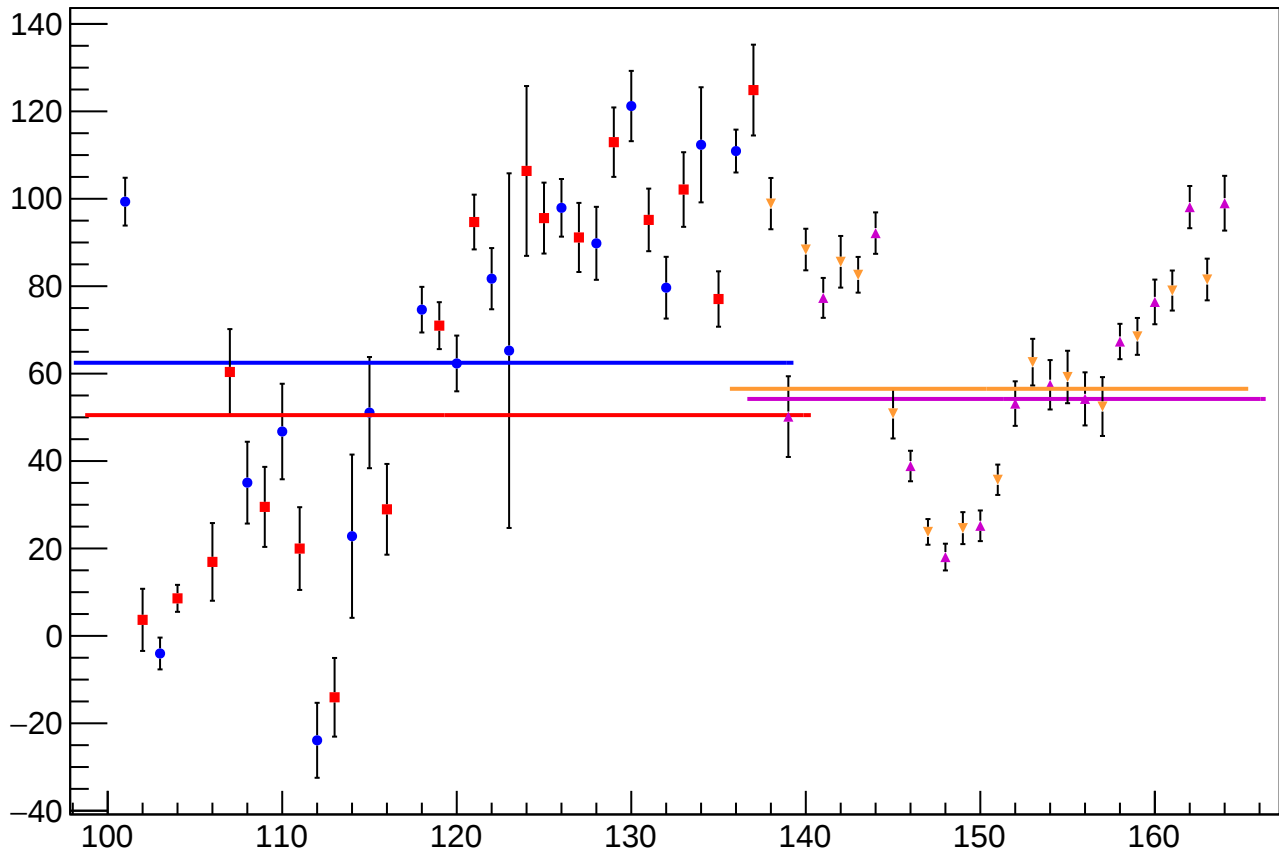
Left In: 314.446 $\pm$ 1.507  $\chi^2$ /NDF:502.9/12

+ sign 297.085 $\pm$ 1.271  $\chi^2$ /NDF: 8408.1/30

All: 298.752 $\pm$ 0.904  $\chi^2$ /NDF: 17403.2/61

- sign 300.460 $\pm$ 1.286  $\chi^2$ /NDF: 8991.6/30

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 62.485+/-1.681  $\chi^2/\text{NDF}$ : 720.8/16

Left Out: 56.530+/-1.197  $\chi^2/\text{NDF}$ : 460.5/13

Right Out: 50.506+/-1.644  $\chi^2/\text{NDF}$ : 650.6/17

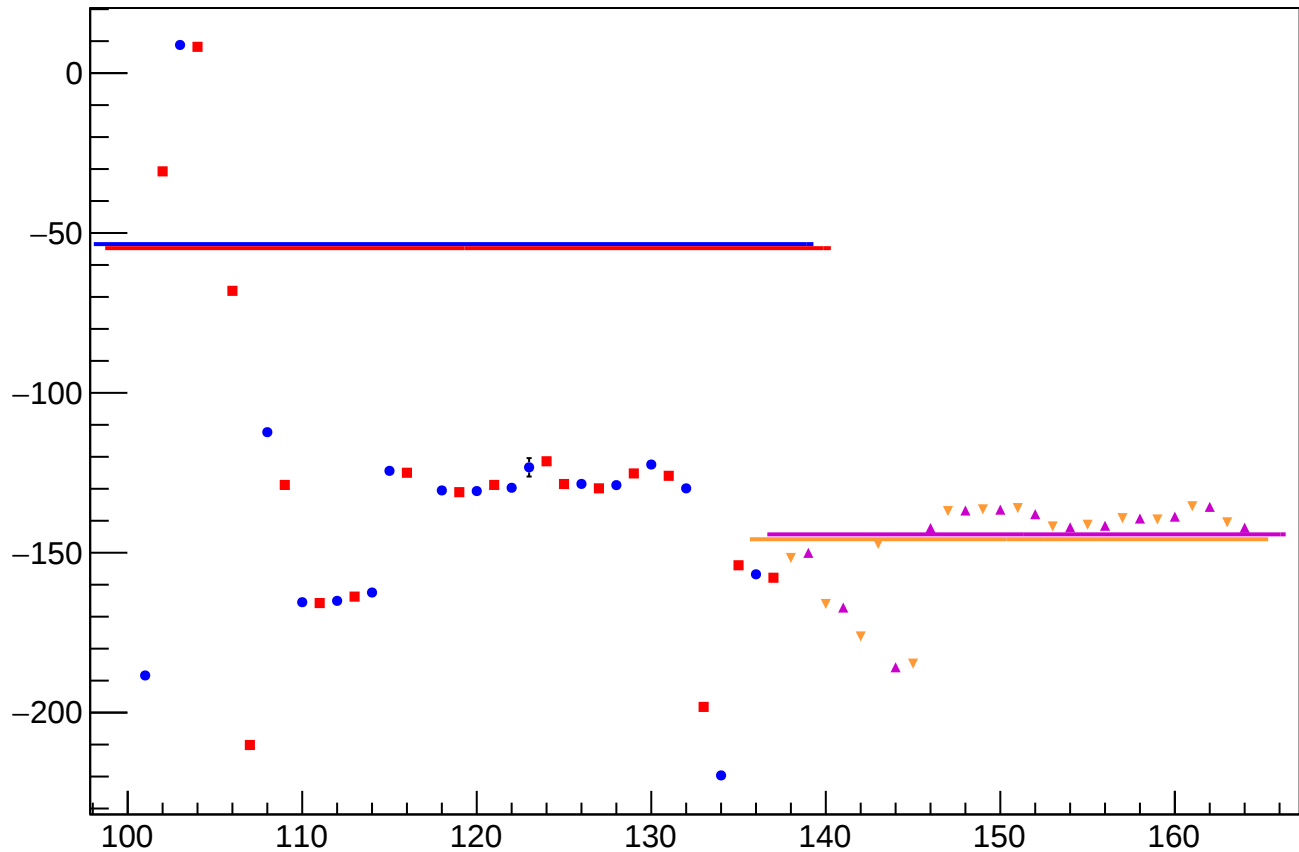
Left In: 54.207+/-1.251  $\chi^2/\text{NDF}$ : 481.0/12

+ sign 58.532+/-0.975  $\chi^2/\text{NDF}$ : 1189.6/30

All: 55.751+/-0.696  $\chi^2/\text{NDF}$ : 2341.0/61

- sign 52.851+/-0.996  $\chi^2/\text{NDF}$ : 1134.8/30

# 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:  $-145.786 \pm 0.059$   $\chi^2/\text{NDF}: 53627.4/13$

Right Out:  $-54.748 \pm 0.072$   $\chi^2/\text{NDF}: 952446.3/17$

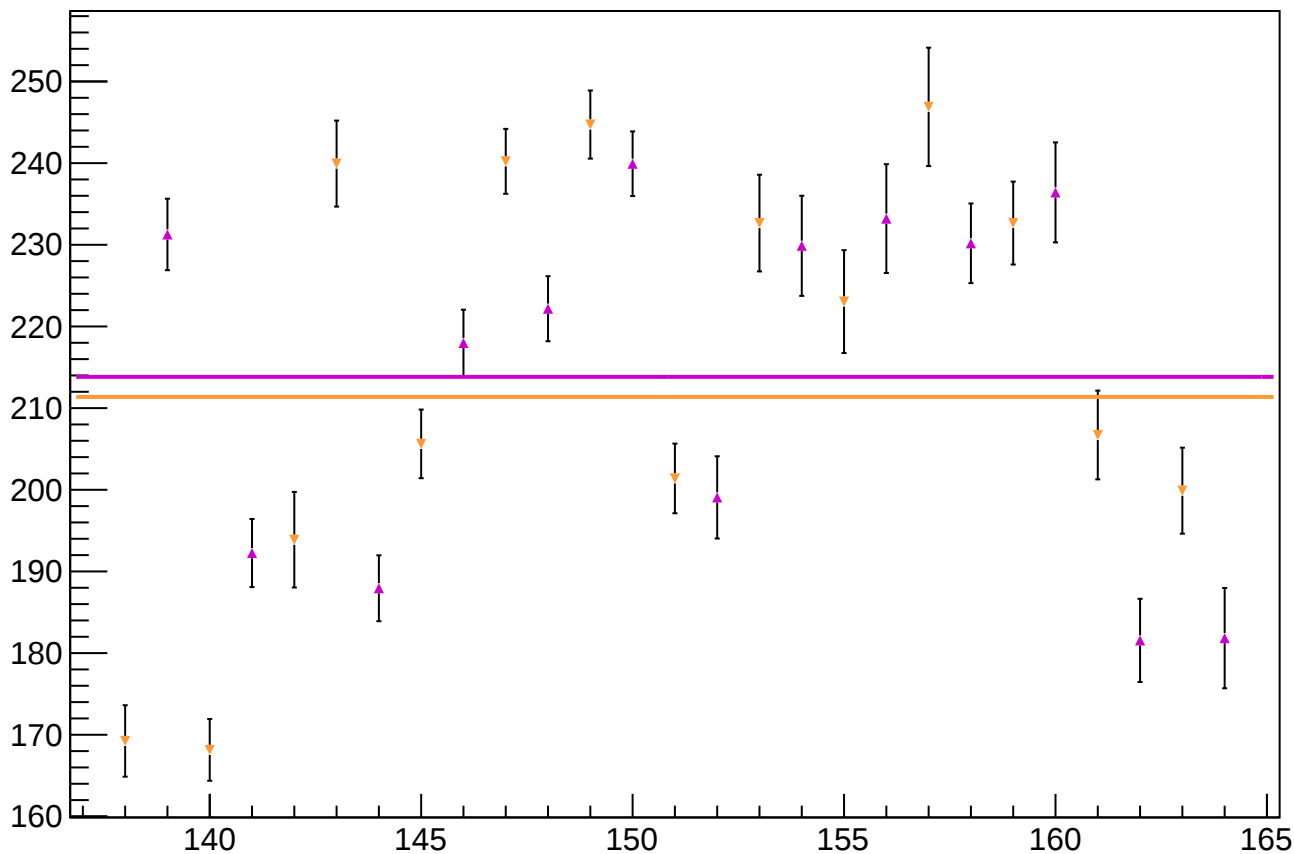
Left In:  $-144.253 \pm 0.060$   $\chi^2/\text{NDF}: 43348.3/12$

+ sign  $-107.359 \pm 0.045$   $\chi^2/\text{NDF}: 2288377.7/30$

All:  $-107.514 \pm 0.032$   $\chi^2/\text{NDF}: 4194647.4/61$

- sign  $-107.674 \pm 0.046$   $\chi^2/\text{NDF}: 1906245.9/30$

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 211.369+/-1.290  $\chi^2/\text{NDF}$ : 449.1/13

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

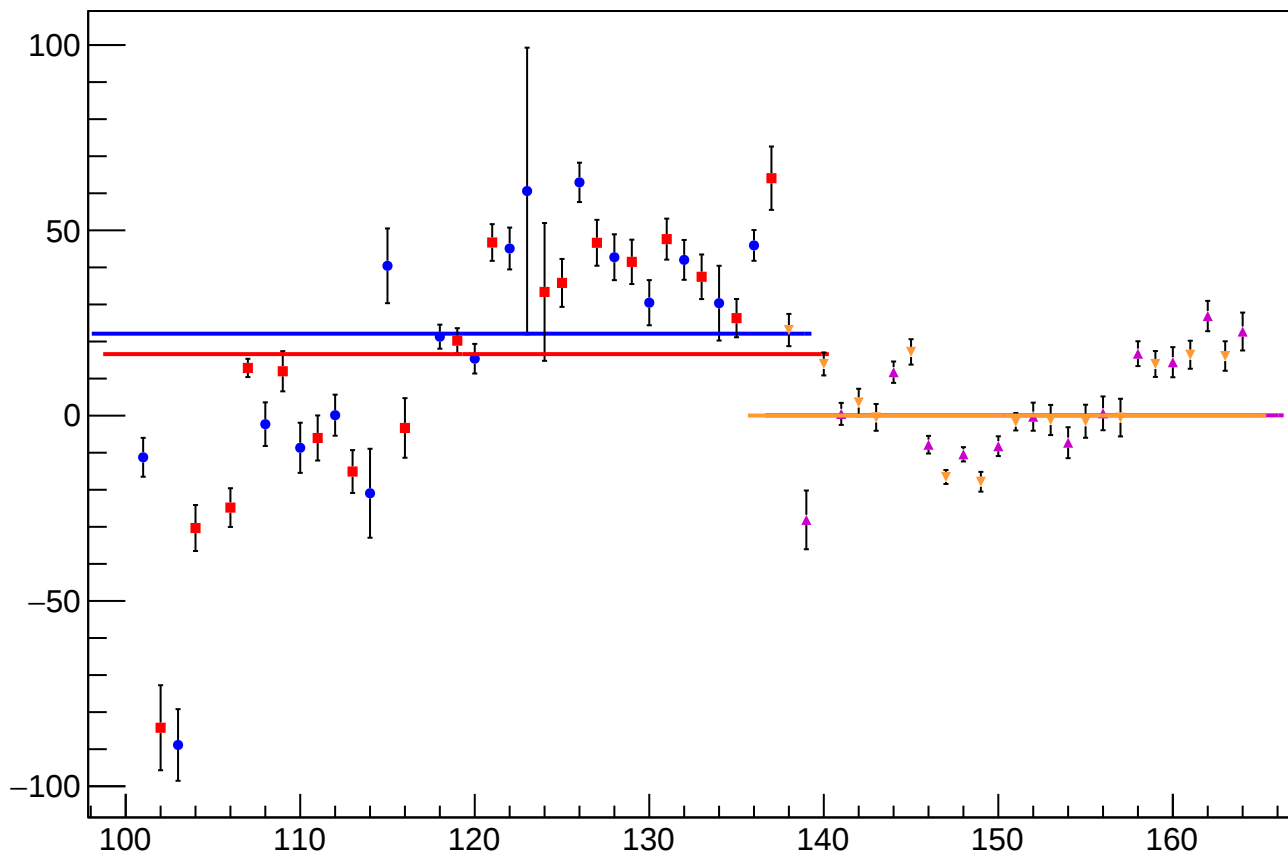
Left In: 213.828+/-1.313  $\chi^2/\text{NDF}$ : 248.7/12

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

All: 212.577+/-0.920  $\chi^2/\text{NDF}$ : 699.6/26

- 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: 0.032 $\pm$ 0.858  $\chi^2$ /NDF: 248.1/13

Right Out: 16.602 $\pm$ 1.229  $\chi^2$ /NDF: 416.8/17

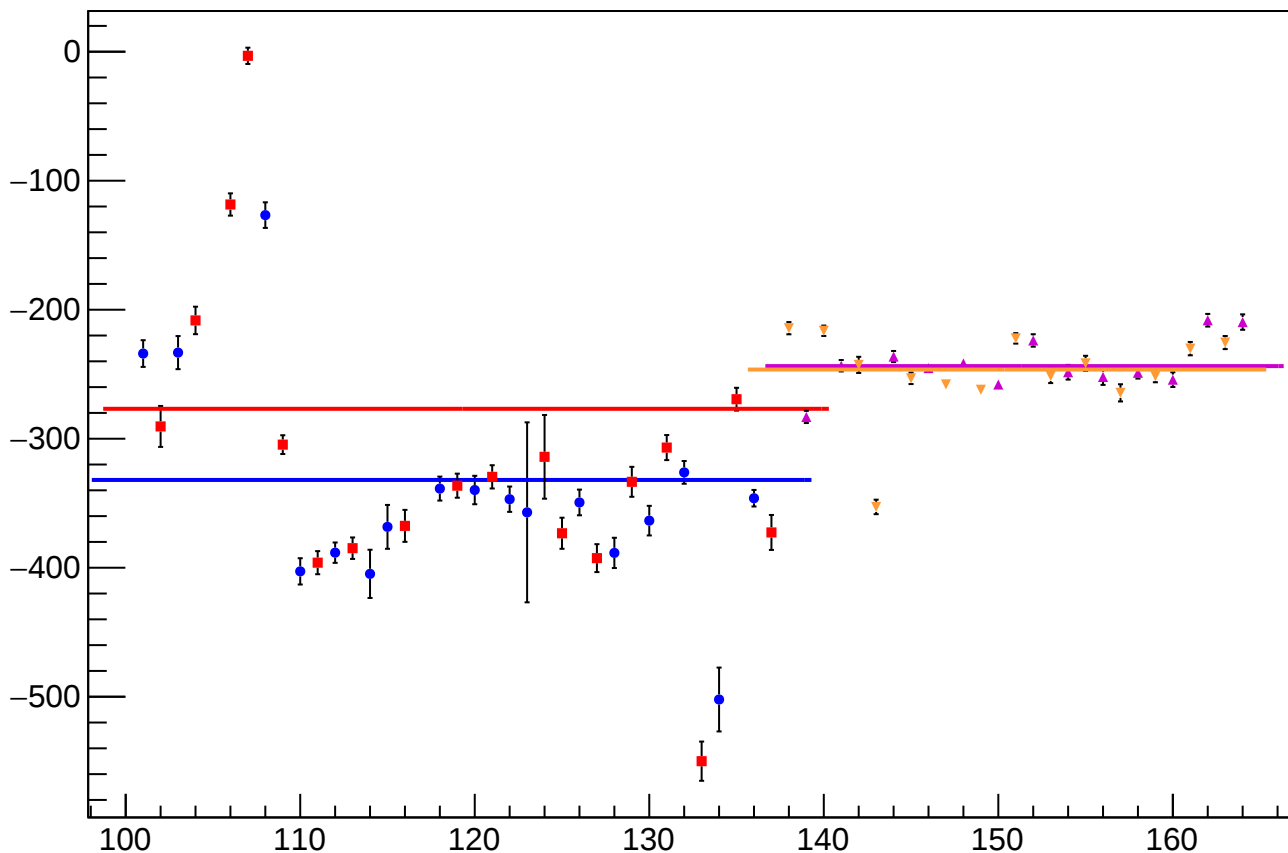
Left In: 0.083 $\pm$ 0.892  $\chi^2$ /NDF: 182.1/12

+ sign 6.214 $\pm$ 0.728  $\chi^2$ /NDF: 815.5/30

All: 5.996 $\pm$ 0.513  $\chi^2$ /NDF: 1533.0/61

- sign 5.782 $\pm$ 0.722  $\chi^2$ /NDF: 717.3/30

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -331.952 $\pm$ 2.567  $\chi^2$ /NDF: 785.6/16

Left Out: -246.386 $\pm$ 1.272  $\chi^2$ /NDF: 561.6/13

Right Out: -276.804 $\pm$ 2.329  $\chi^2$ /NDF: 3330.4/17

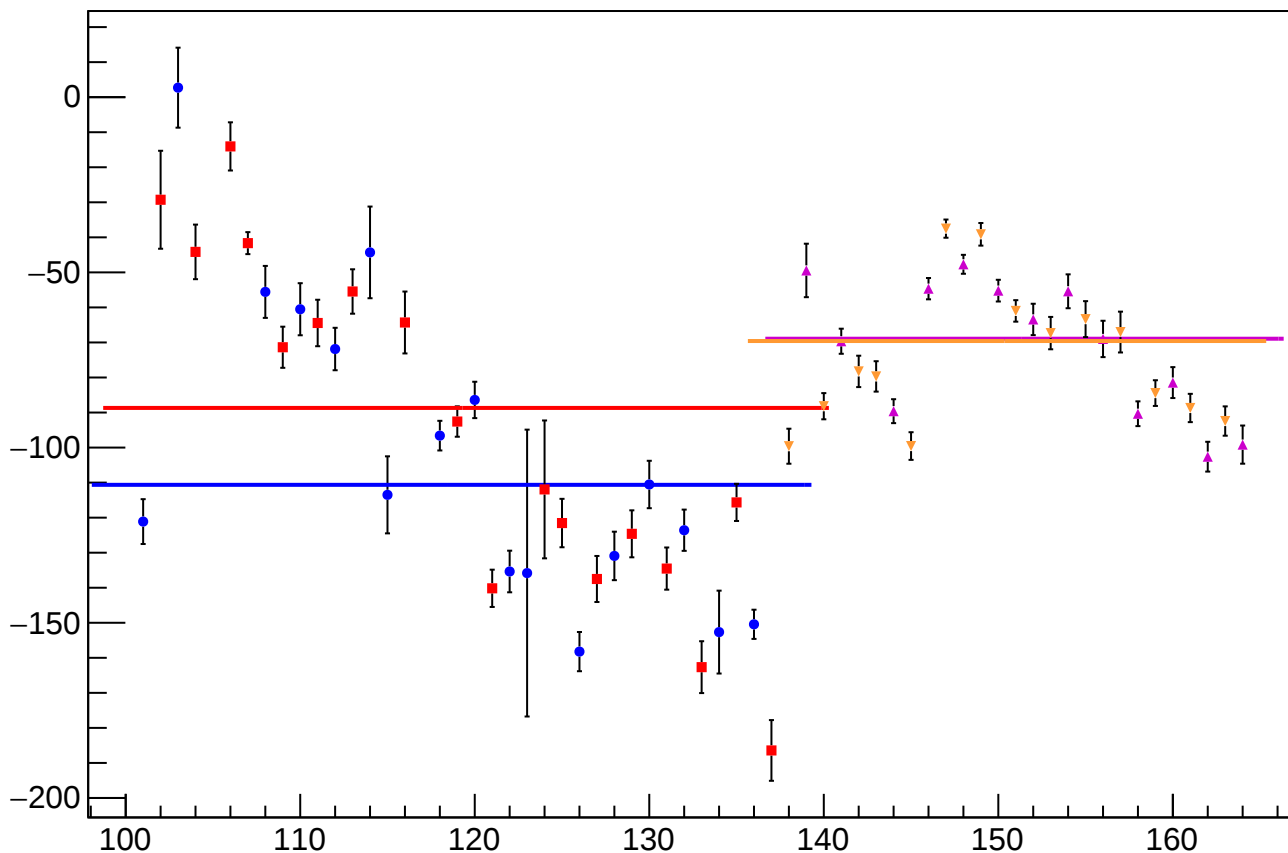
Left In: -243.709 $\pm$ 1.281  $\chi^2$ /NDF: 196.9/12

+ sign -263.244 $\pm$ 1.140  $\chi^2$ /NDF: 2239.2/30

All: -257.230 $\pm$ 0.800  $\chi^2$ /NDF: 5976.3/61

- sign -251.394 $\pm$ 1.123  $\chi^2$ /NDF: 3682.3/30

# 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:  $-69.592 \pm 1.033$   $\chi^2/\text{NDF}$ : 447.6/13

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}$ : 964.0/17

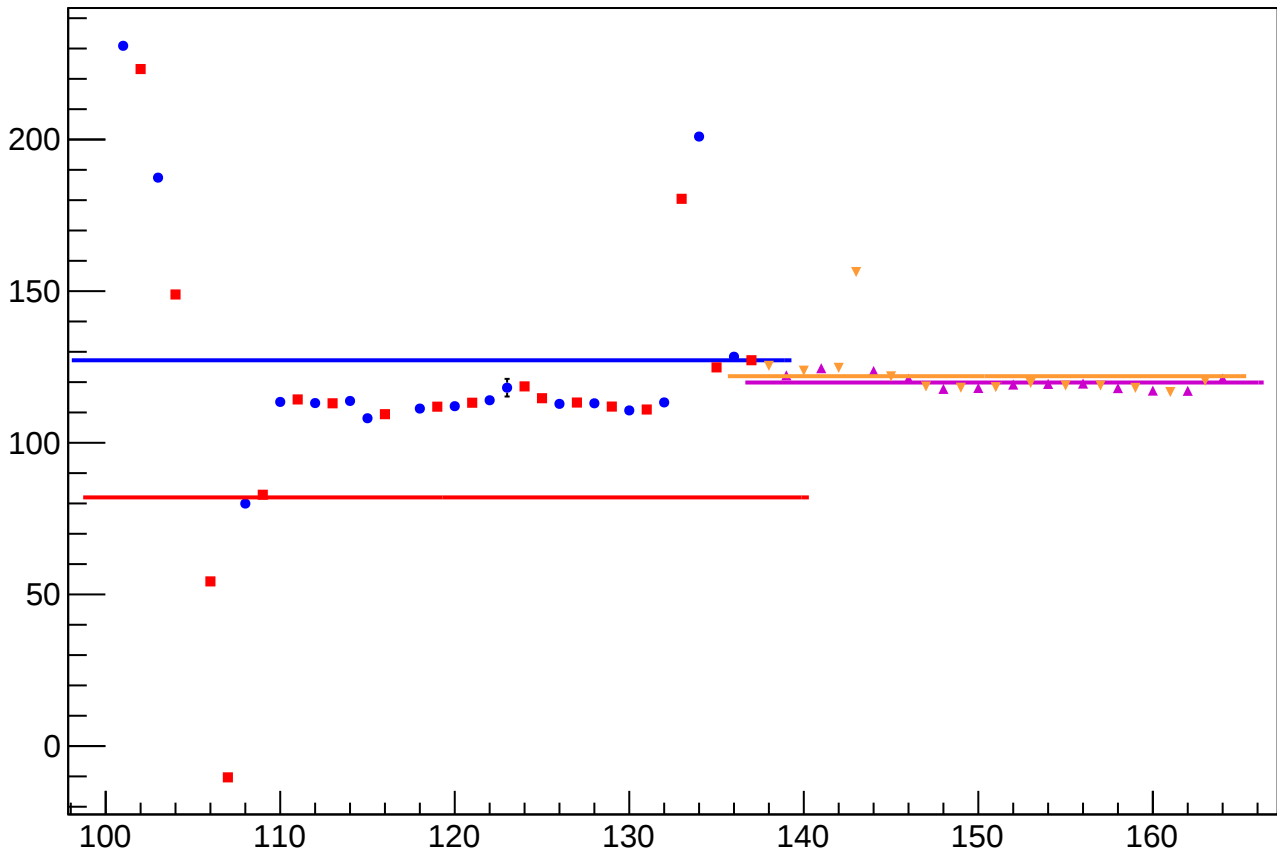
Left In:  $-68.931 \pm 1.066$   $\chi^2/\text{NDF}$ : 294.2/12

+ sign  $-81.876 \pm 0.865$   $\chi^2/\text{NDF}$ : 1428.5/30

All:  $-78.884 \pm 0.608$   $\chi^2/\text{NDF}$ : 2832.5/61

- sign  $-75.957 \pm 0.856$   $\chi^2/\text{NDF}$ : 1380.3/30

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 121.959 $\pm$ 0.051  $\chi^2$ /NDF: 26744.4/13

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

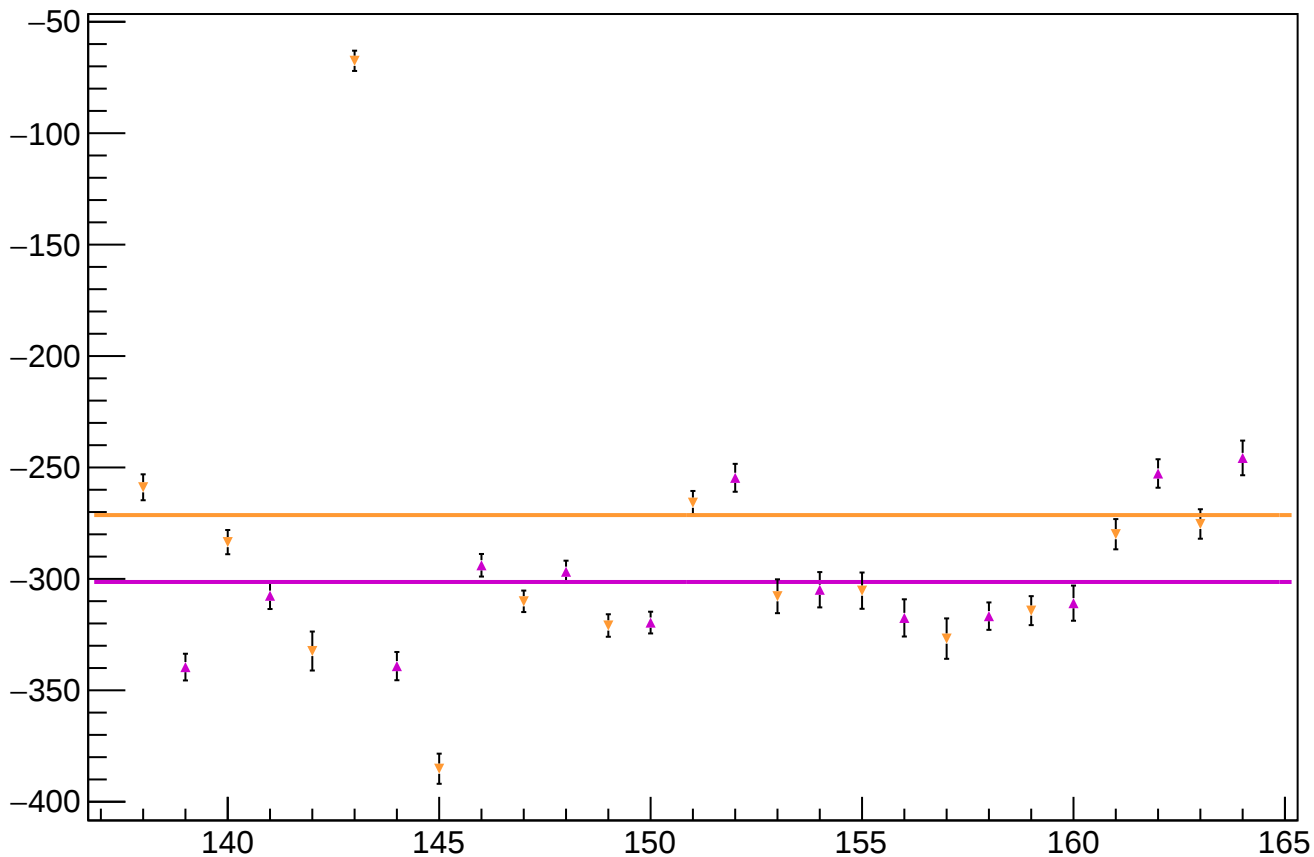
Left In: 119.874 $\pm$ 0.051  $\chi^2$ /NDF: 2197.8/12

+ sign 123.252 $\pm$ 0.044  $\chi^2$ /NDF: 217380.5/30

All: 115.276 $\pm$ 0.031  $\chi^2$ /NDF: 1204422.4/61

- sign 108.000 $\pm$ 0.042  $\chi^2$ /NDF: 924913.7/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out:  $-271.364 \pm 1.627$   $\chi^2/\text{NDF}: 2634.1/13$

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

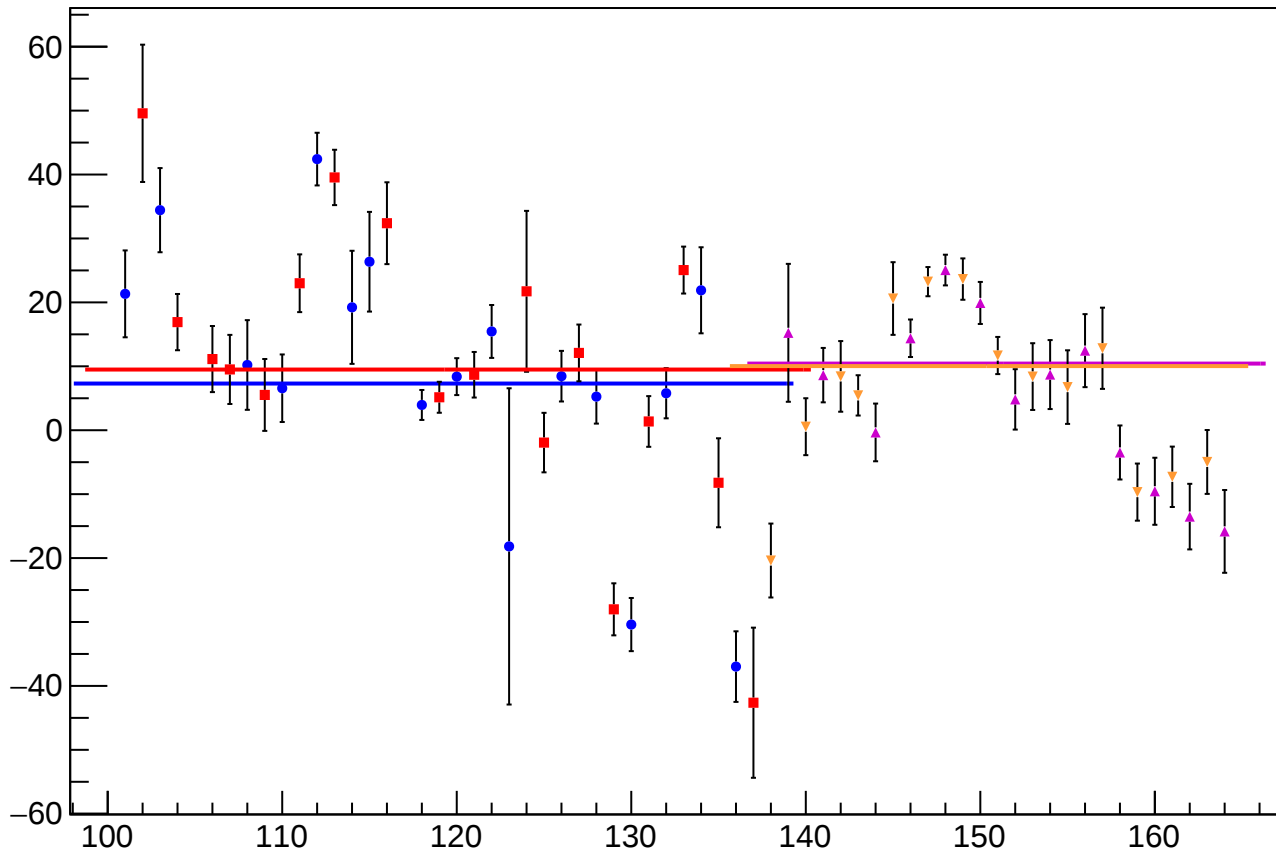
Left In:  $-301.384 \pm 1.710$   $\chi^2/\text{NDF}: 270.7/12$

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

All:  $-285.626 \pm 1.179$   $\chi^2/\text{NDF}: 3066.6/26$

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

# 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: 10.033 $\pm$ 1.068  $\chi^2/\text{NDF}$ :131.9/13

Right Out: 9.493 $\pm$ 1.073  $\chi^2/\text{NDF}$ : 231.1/17

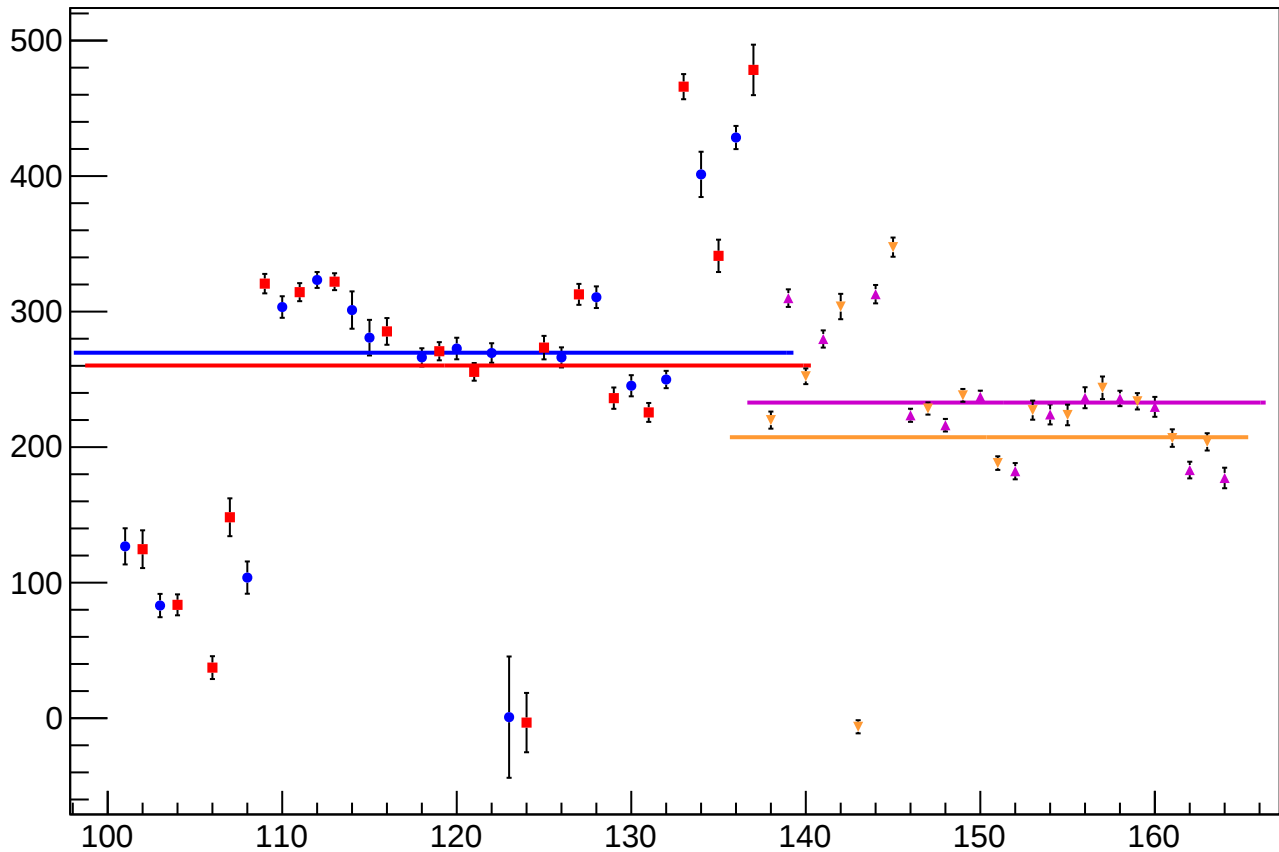
Left In: 10.425 $\pm$ 1.148  $\chi^2/\text{NDF}$ :118.6/12

+ sign 8.690 $\pm$ 0.761  $\chi^2/\text{NDF}$ : 395.7/30

All: 9.291 $\pm$ 0.546  $\chi^2/\text{NDF}$ : 747.1/61

- sign 9.927 $\pm$ 0.784  $\chi^2/\text{NDF}$ : 350.0/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 269.664 $\pm$ 2.076  $\chi^2$ /NDF: 1376.6/16

Left Out: 207.317 $\pm$ 1.600  $\chi^2$ /NDF:2631.8/13

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

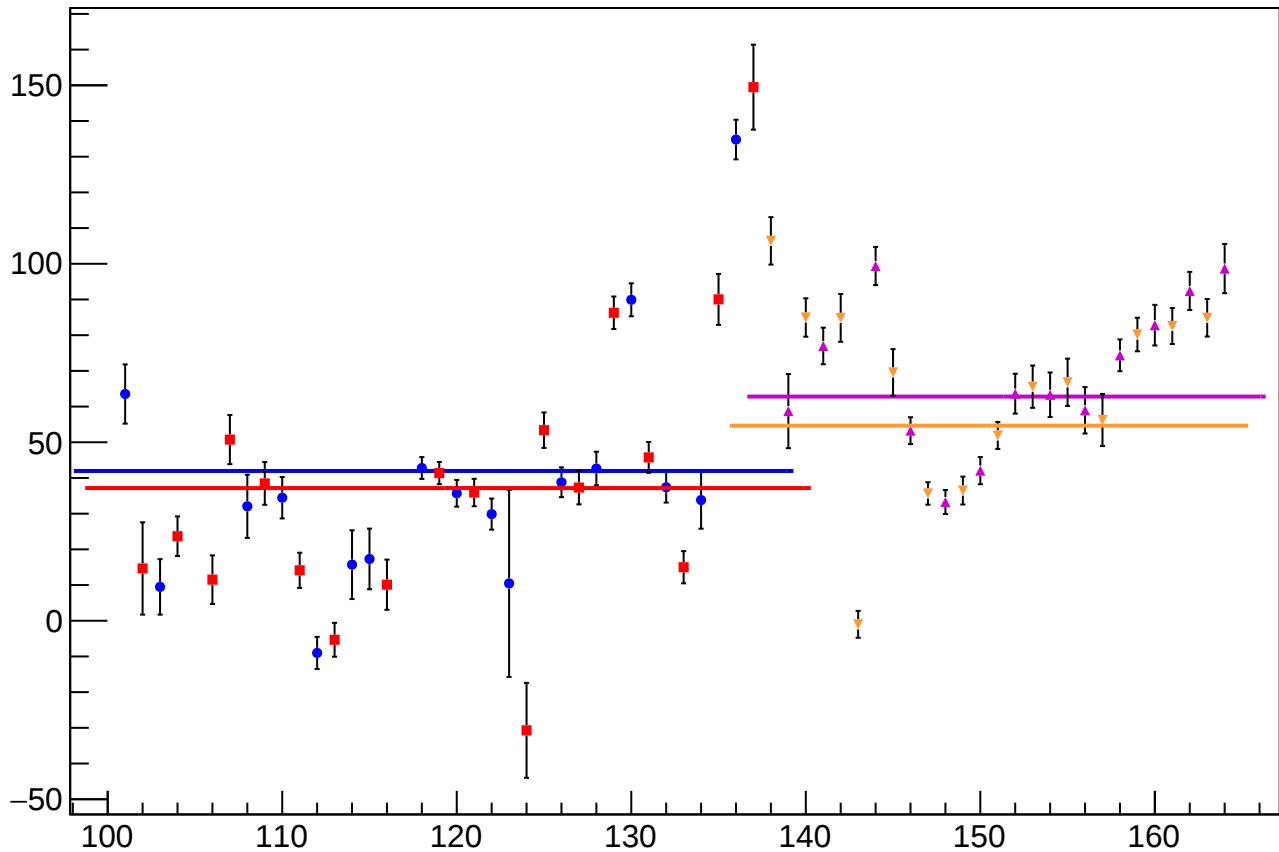
Left In: 232.876 $\pm$ 1.658  $\chi^2$ /NDF:544.9/12

+ sign 230.557 $\pm$ 1.267  $\chi^2$ /NDF: 4574.1/30

All: 237.339 $\pm$ 0.897  $\chi^2$ /NDF: 7816.7/61

- sign 244.156 $\pm$ 1.271  $\chi^2$ /NDF: 3185.1/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 41.959 $\pm$ 1.258  $\chi^2$ /NDF: 574.2/16

Left Out: 54.652 $\pm$ 1.291  $\chi^2$ /NDF: 494.7/13

Right Out: 37.171 $\pm$ 1.236  $\chi^2$ /NDF: 470.9/17

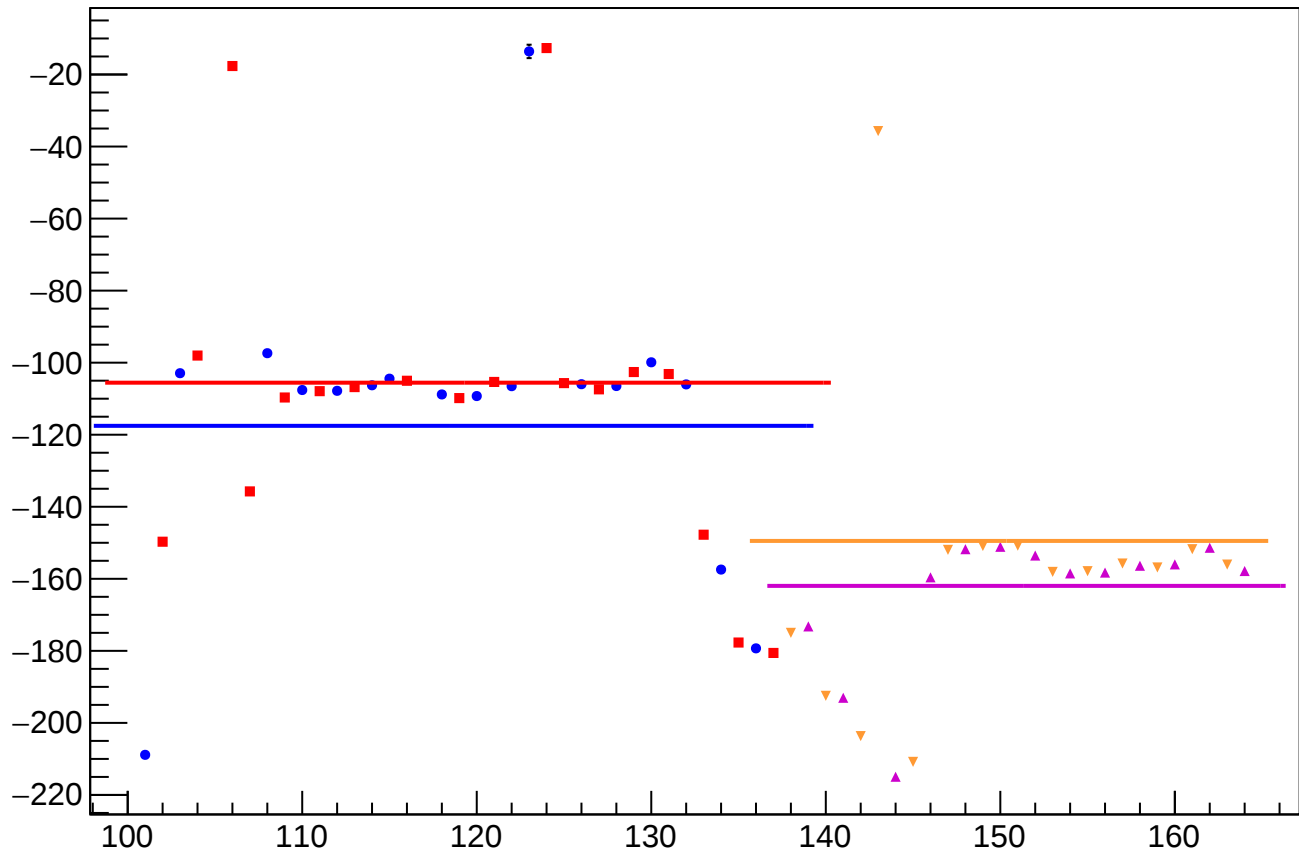
Left In: 62.802 $\pm$ 1.375  $\chi^2$ /NDF: 245.1/12

+ sign 48.145 $\pm$ 0.901  $\chi^2$ /NDF: 1118.6/30

All: 48.382 $\pm$ 0.643  $\chi^2$ /NDF: 2026.9/61

- sign 48.629 $\pm$ 0.919  $\chi^2$ /NDF: 908.2/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-117.533 \pm 0.078$   $\chi^2/\text{NDF}$ : 142039.8/16

Left Out:  $-149.483 \pm 0.064$   $\chi^2/\text{NDF}$ : 453578.1/13

Right Out:  $-105.555 \pm 0.073$   $\chi^2/\text{NDF}$ : 317428.5/17

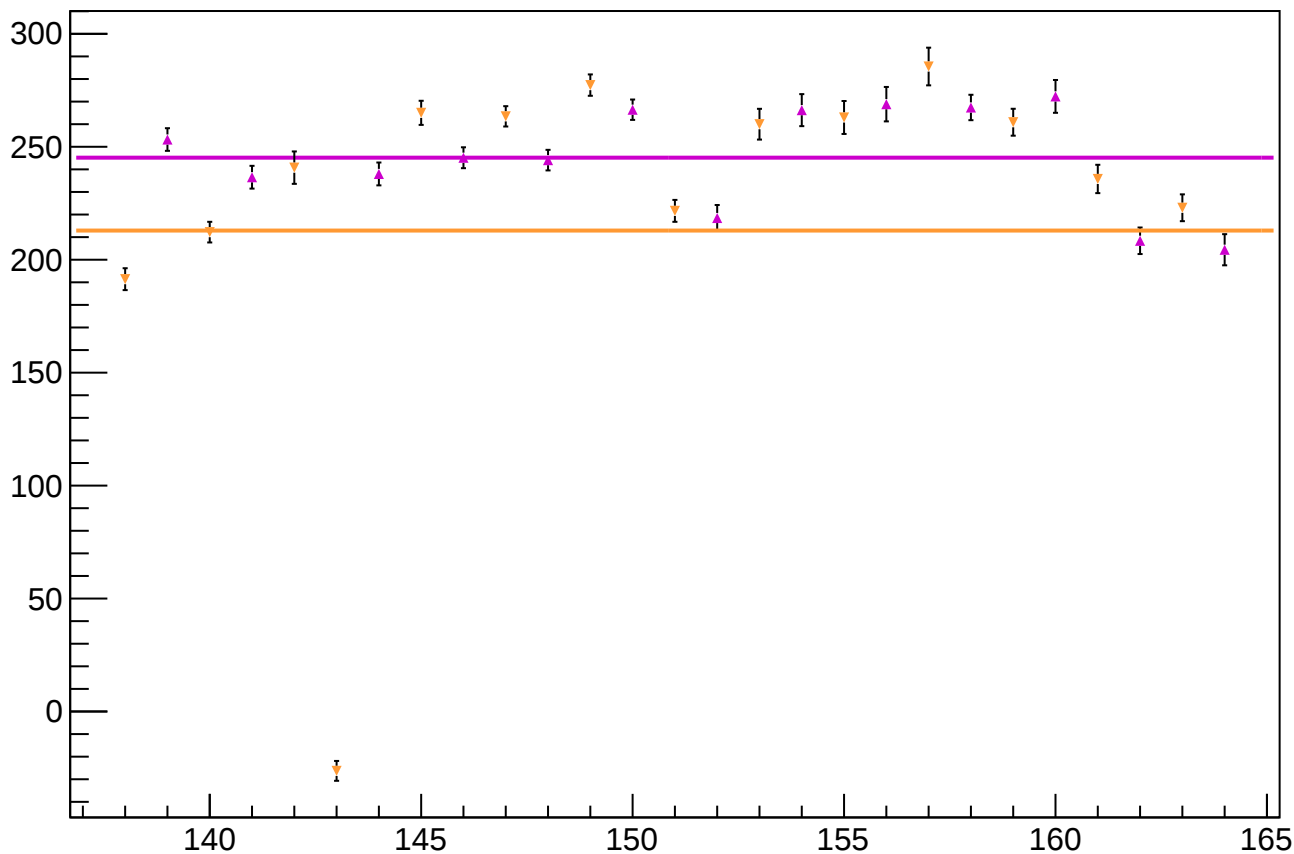
Left In:  $-161.963 \pm 0.066$   $\chi^2/\text{NDF}$ : 59623.1/12

+ sign  $-136.584 \pm 0.050$   $\chi^2/\text{NDF}$ : 695345.4/30

All:  $-136.563 \pm 0.035$   $\chi^2/\text{NDF}$ : 1401563.6/61

- sign  $-136.543 \pm 0.049$   $\chi^2/\text{NDF}$ : 706217.9/30

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: 212.914+/-1.459  $\chi^2/\text{NDF}$ : 3658.6/13

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

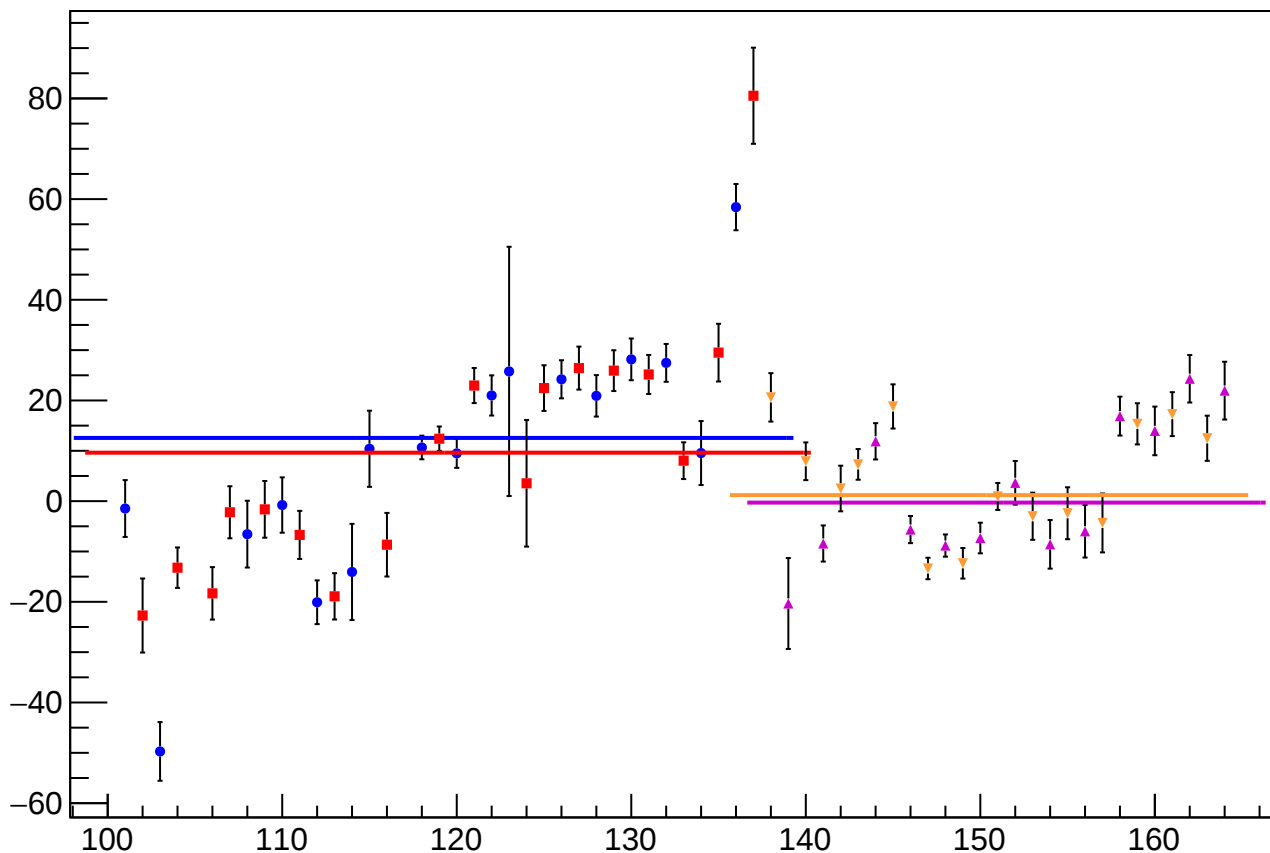
Left In: 245.180+/-1.524  $\chi^2/\text{NDF}$ : 173.6/12

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

All: 228.336+/-1.054  $\chi^2/\text{NDF}$ : 4066.1/26

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

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $12.559 \pm 1.057$   $\chi^2/\text{NDF}$ : 348.6/16

Left Out:  $1.194 \pm 0.969$   $\chi^2/\text{NDF}$ : 140.5/13

Right Out:  $9.631 \pm 1.049$   $\chi^2/\text{NDF}$ : 287.5/17

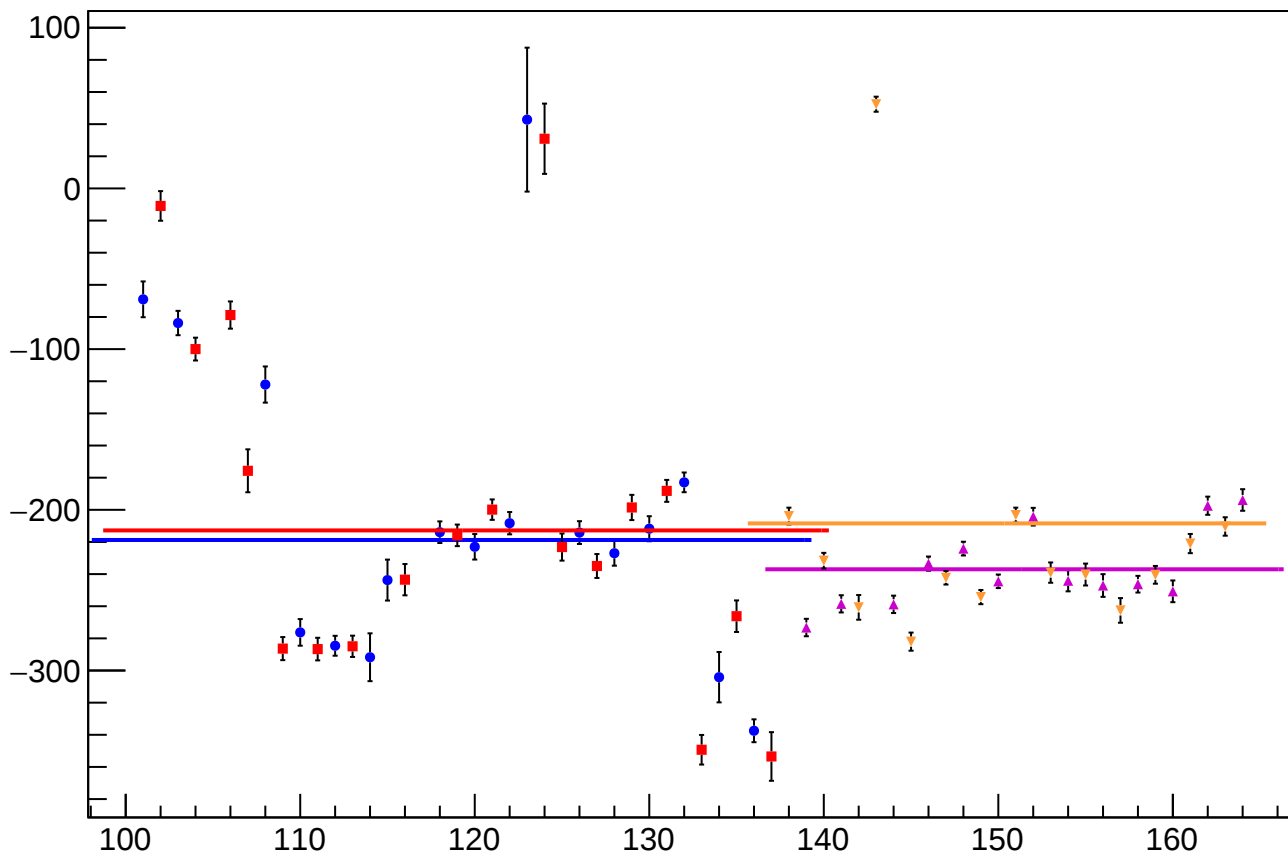
Left In:  $-0.288 \pm 1.034$   $\chi^2/\text{NDF}$ : 121.3/12

+ sign  $6.380 \pm 0.714$   $\chi^2/\text{NDF}$ : 551.9/30

All:  $5.517 \pm 0.513$   $\chi^2/\text{NDF}$ : 1009.0/61

- sign  $4.599 \pm 0.737$   $\chi^2/\text{NDF}$ : 454.1/30

# 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:  $-208.449 \pm 1.441$   $\chi^2/\text{NDF}: 3643.0/13$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

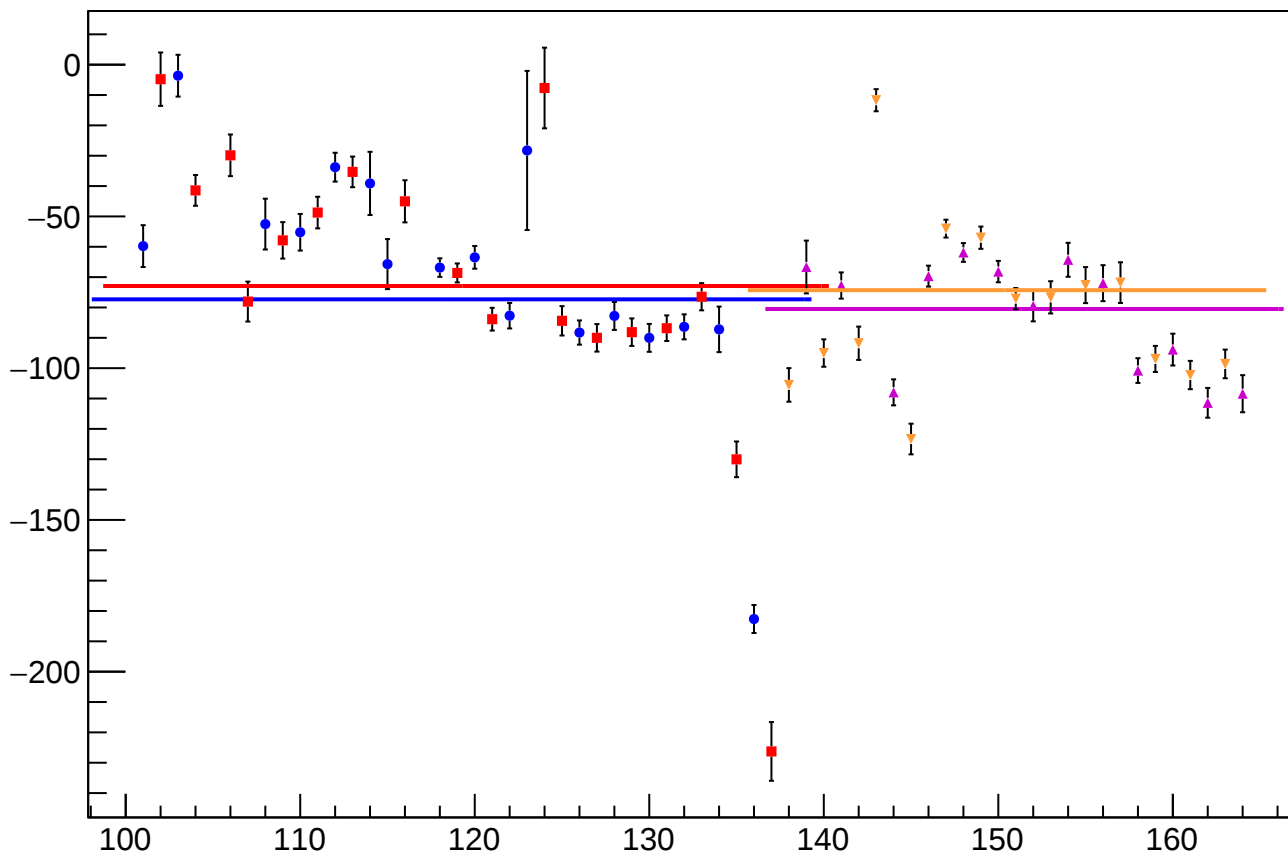
Left In:  $-237.004 \pm 1.485$   $\chi^2/\text{NDF}: 225.9/12$

+ sign  $-211.951 \pm 1.171$   $\chi^2/\text{NDF}: 4804.8/30$

All:  $-219.937 \pm 0.830$   $\chi^2/\text{NDF}: 7047.5/61$

- sign  $-227.990 \pm 1.176$   $\chi^2/\text{NDF}: 2149.3/30$

# 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:  $-74.301 \pm 1.168$   $\chi^2/\text{NDF}$ : 613.9/13

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

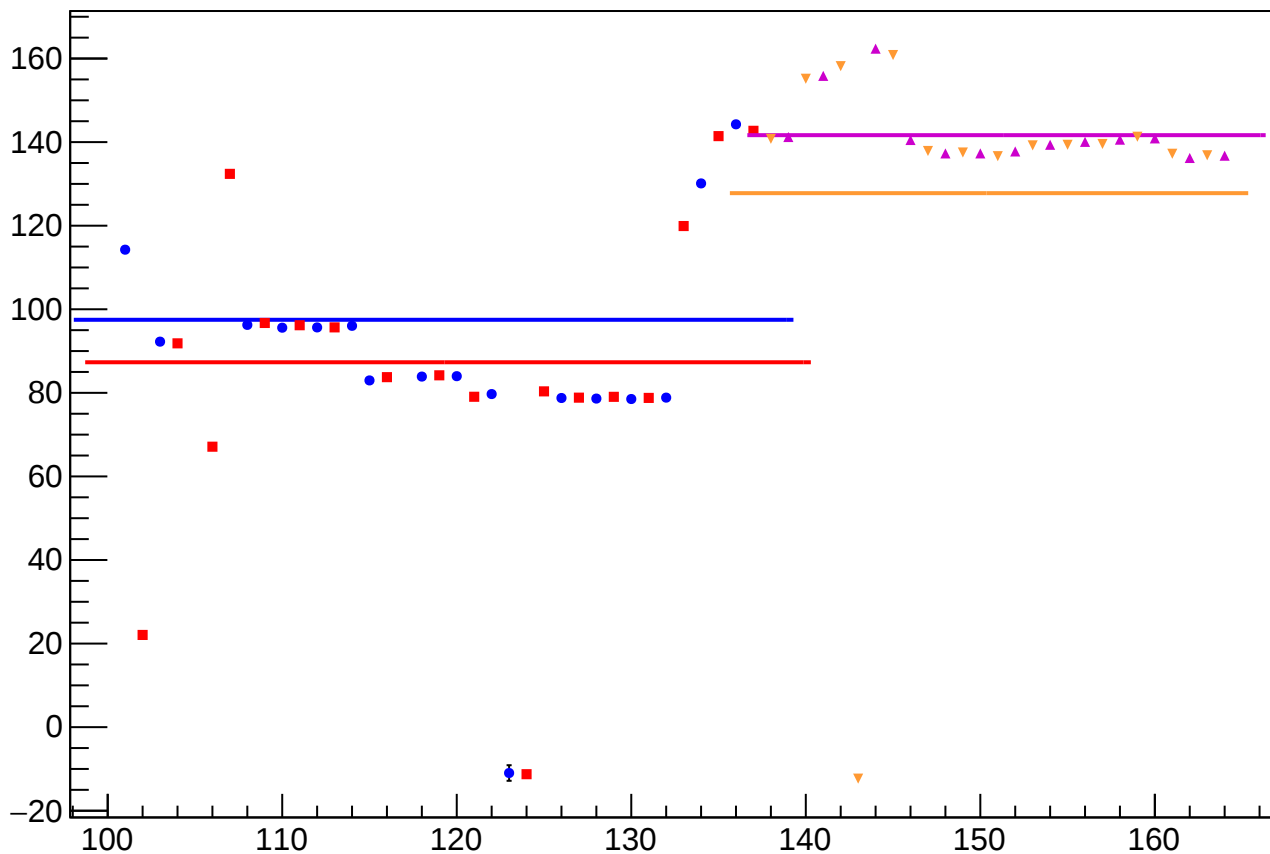
Left In:  $-80.500 \pm 1.237$   $\chi^2/\text{NDF}$ : 207.8/12

+ sign  $-75.742 \pm 0.844$   $\chi^2/\text{NDF}$ : 1434.8/30

All:  $-76.172 \pm 0.604$   $\chi^2/\text{NDF}$ : 2323.1/61

- sign  $-76.622 \pm 0.864$   $\chi^2/\text{NDF}$ : 887.8/30

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.483+/-0.073  $\chi^2/\text{NDF}$ : 94392.9/16

Left Out: 127.785+/-0.058  $\chi^2/\text{NDF}$ : 628620.2/13

Right Out: 87.318+/-0.068  $\chi^2/\text{NDF}$ : 221863.6/17

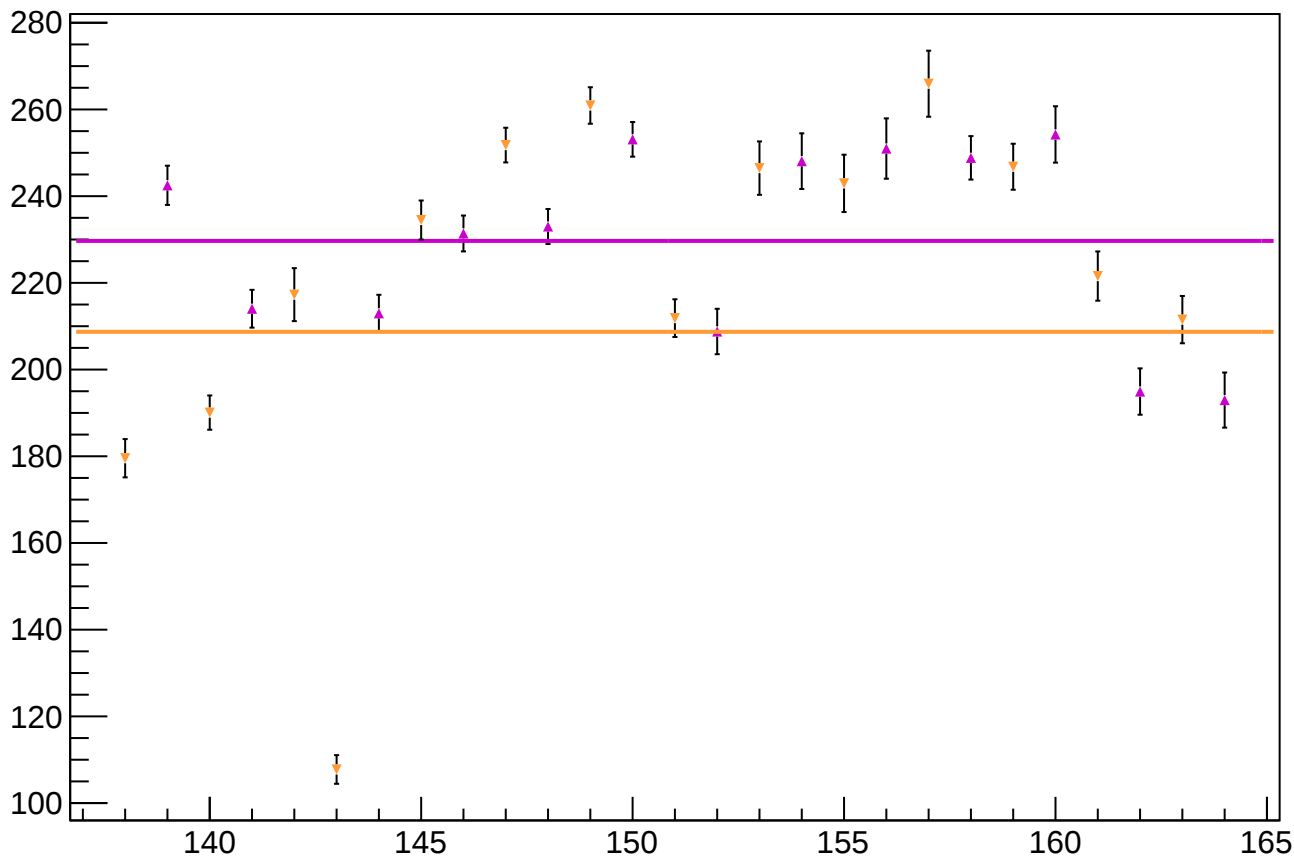
Left In: 141.663+/-0.059  $\chi^2/\text{NDF}$ : 14540.2/12

+ sign 116.182+/-0.045  $\chi^2/\text{NDF}$ : 828281.0/30

All: 117.319+/-0.032  $\chi^2/\text{NDF}$ : 1427848.2/61

- sign 118.422+/-0.045  $\chi^2/\text{NDF}$ : 598330.3/30

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: 208.711+/-1.269  $\chi^2/\text{NDF}$ :1481.3/13

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

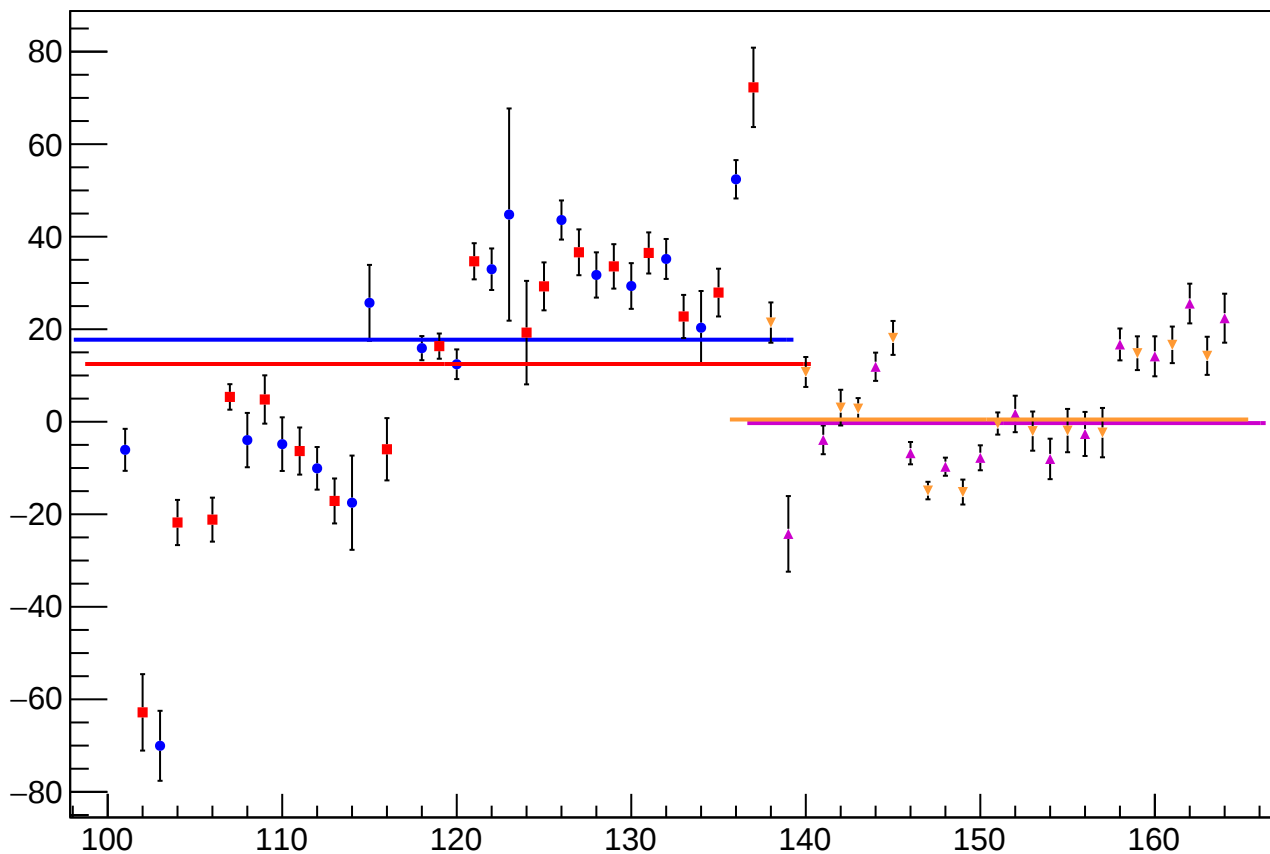
Left In: 229.676+/-1.357  $\chi^2/\text{NDF}$ :209.3/12

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

All: 218.485+/-0.927  $\chi^2/\text{NDF}$ : 1817.9/26

- 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: 0.487 $\pm$ 0.843  $\chi^2$ /NDF: 201.8/13

Right Out: 12.484 $\pm$ 1.085  $\chi^2$ /NDF: 429.2/17

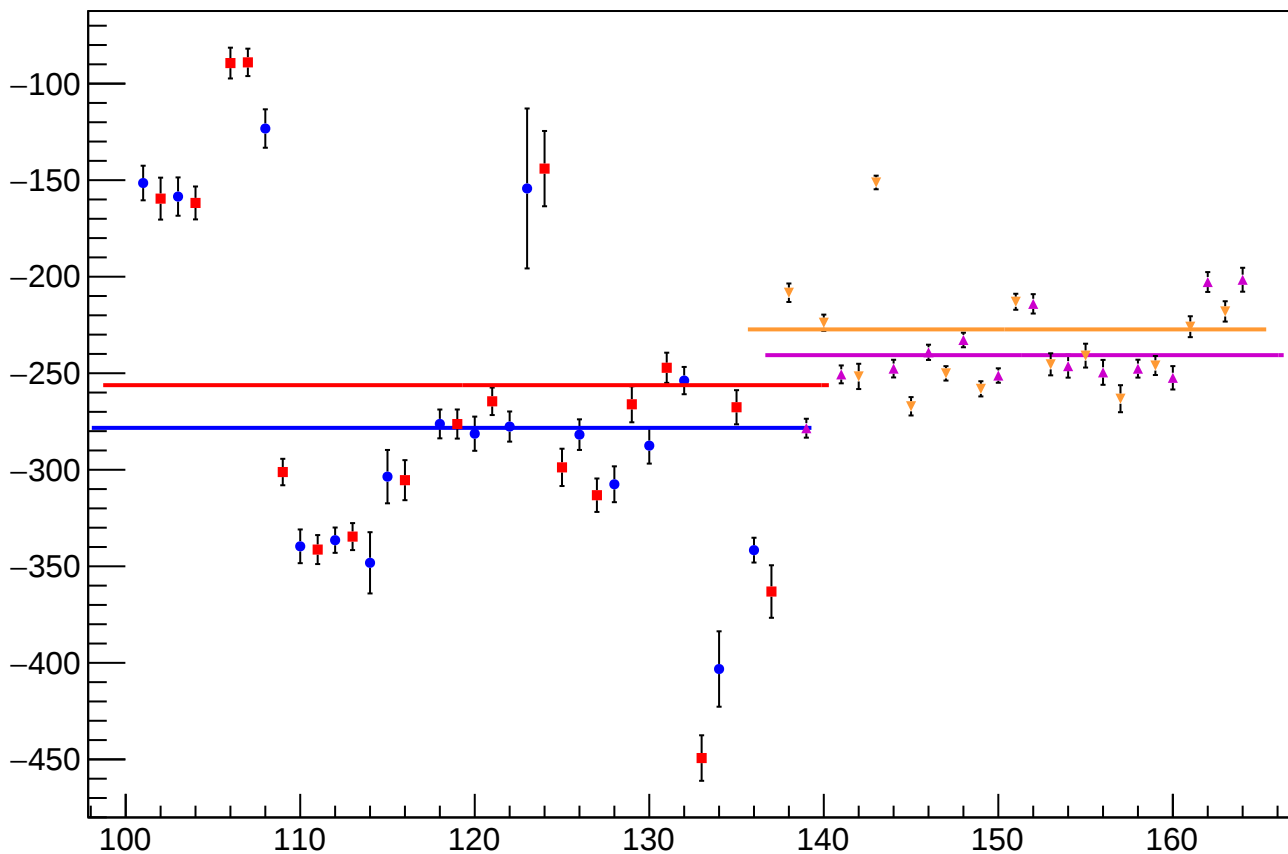
Left In: -0.288 $\pm$ 0.919  $\chi^2$ /NDF: 157.7/12

+ sign 6.525 $\pm$ 0.680  $\chi^2$ /NDF: 742.4/30

All: 5.808 $\pm$ 0.488  $\chi^2$ /NDF: 1412.3/61

- sign 5.045 $\pm$ 0.701  $\chi^2$ /NDF: 667.6/30

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:  $-227.296 \pm 1.259$   $\chi^2/\text{NDF}$ : 735.1/13

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}$ : 1952.2/17

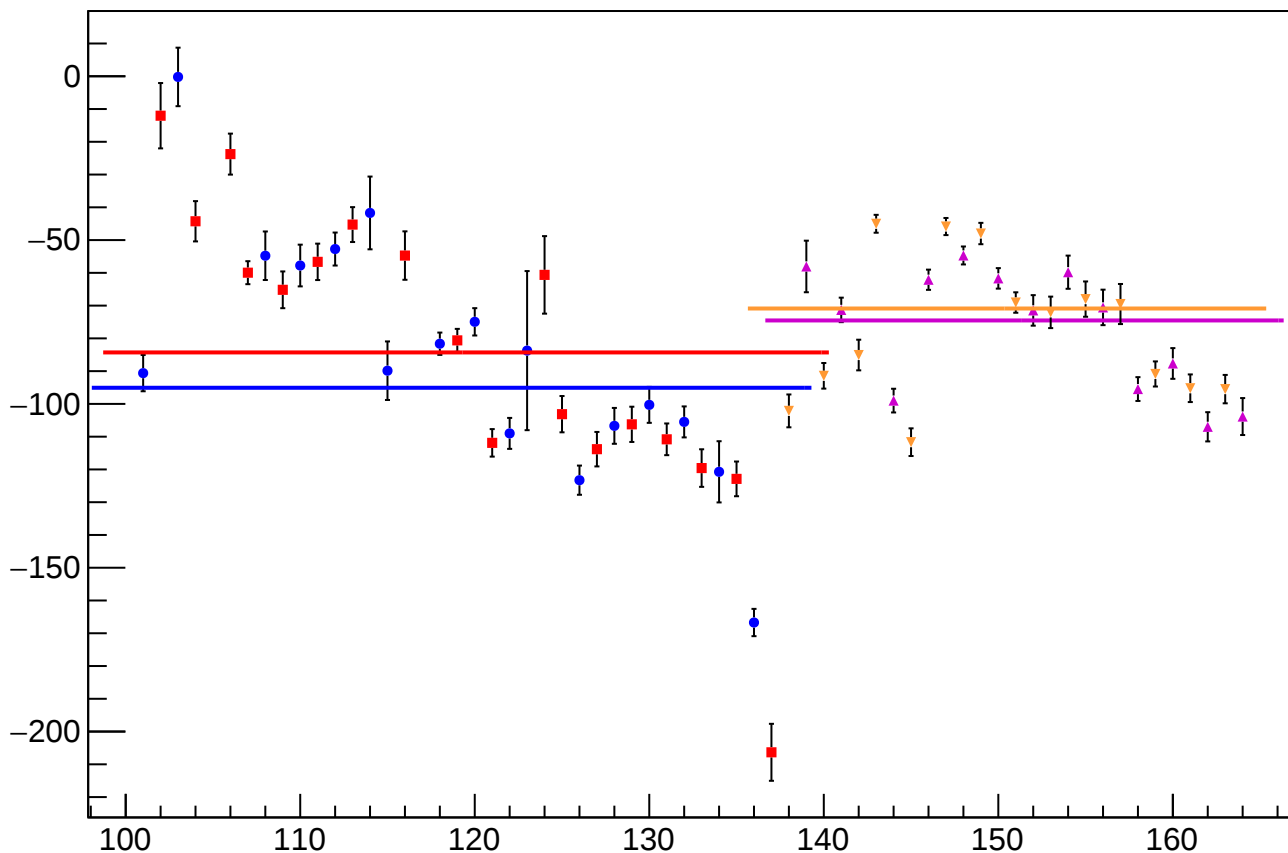
Left In:  $-240.633 \pm 1.324$   $\chi^2/\text{NDF}$ : 209.9/12

+ sign  $-240.114 \pm 1.089$   $\chi^2/\text{NDF}$ : 2057.8/30

All:  $-242.656 \pm 0.777$   $\chi^2/\text{NDF}$ : 4272.2/61

- sign  $-245.287 \pm 1.108$   $\chi^2/\text{NDF}$ : 2203.4/30

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:  $-70.882 \pm 1.017$   $\chi^2/\text{NDF}: 493.3/13$

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}: 768.8/17$

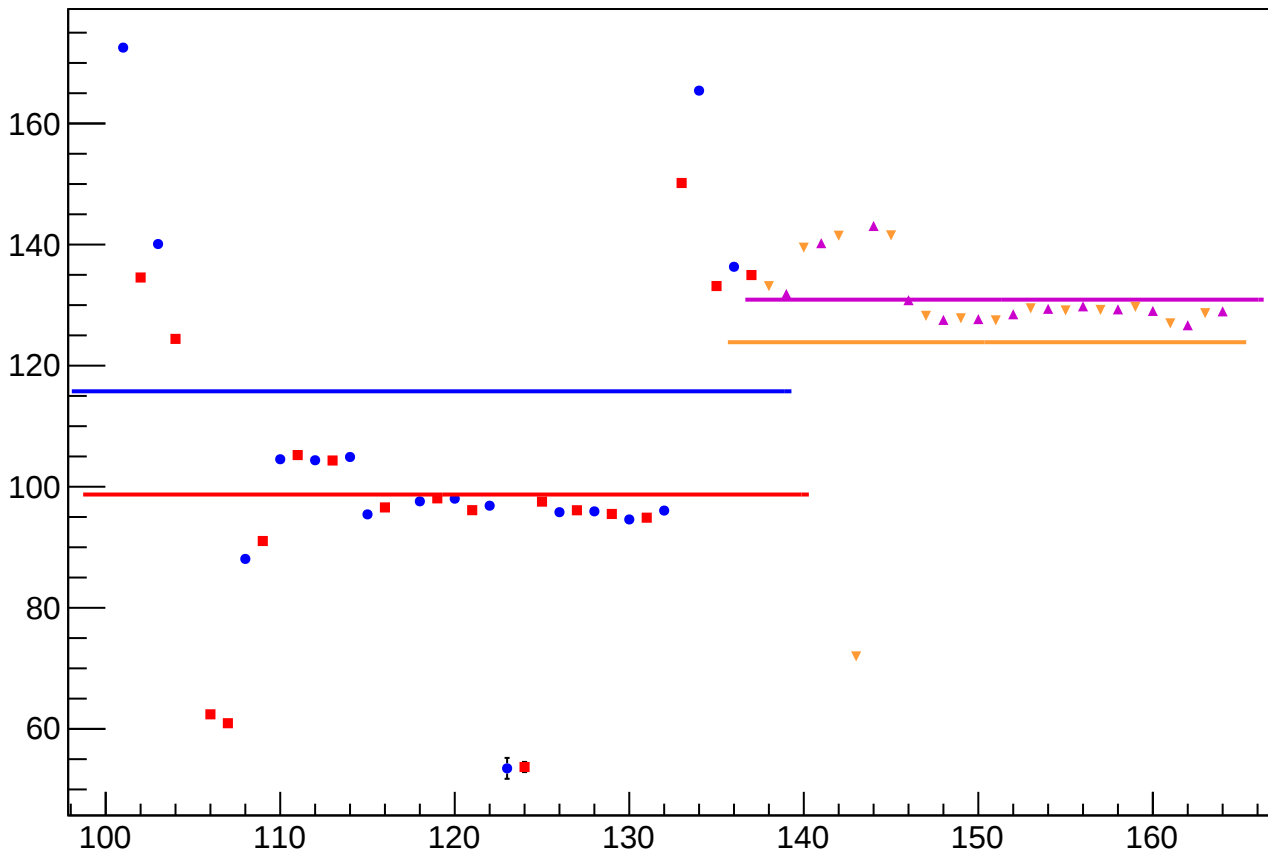
Left In:  $-74.528 \pm 1.100$   $\chi^2/\text{NDF}: 266.8/12$

+ sign  $-79.847 \pm 0.807$   $\chi^2/\text{NDF}: 1376.2/30$

All:  $-79.316 \pm 0.578$   $\chi^2/\text{NDF}: 2446.8/61$

- sign  $-78.756 \pm 0.828$   $\chi^2/\text{NDF}: 1069.7/30$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $115.763 \pm 0.078$   $\chi^2/\text{NDF}: 106297.4/16$

Left Out:  $123.871 \pm 0.051$   $\chi^2/\text{NDF}: 162052.1/13$

Right Out:  $98.713 \pm 0.069$   $\chi^2/\text{NDF}: 170183.8/17$

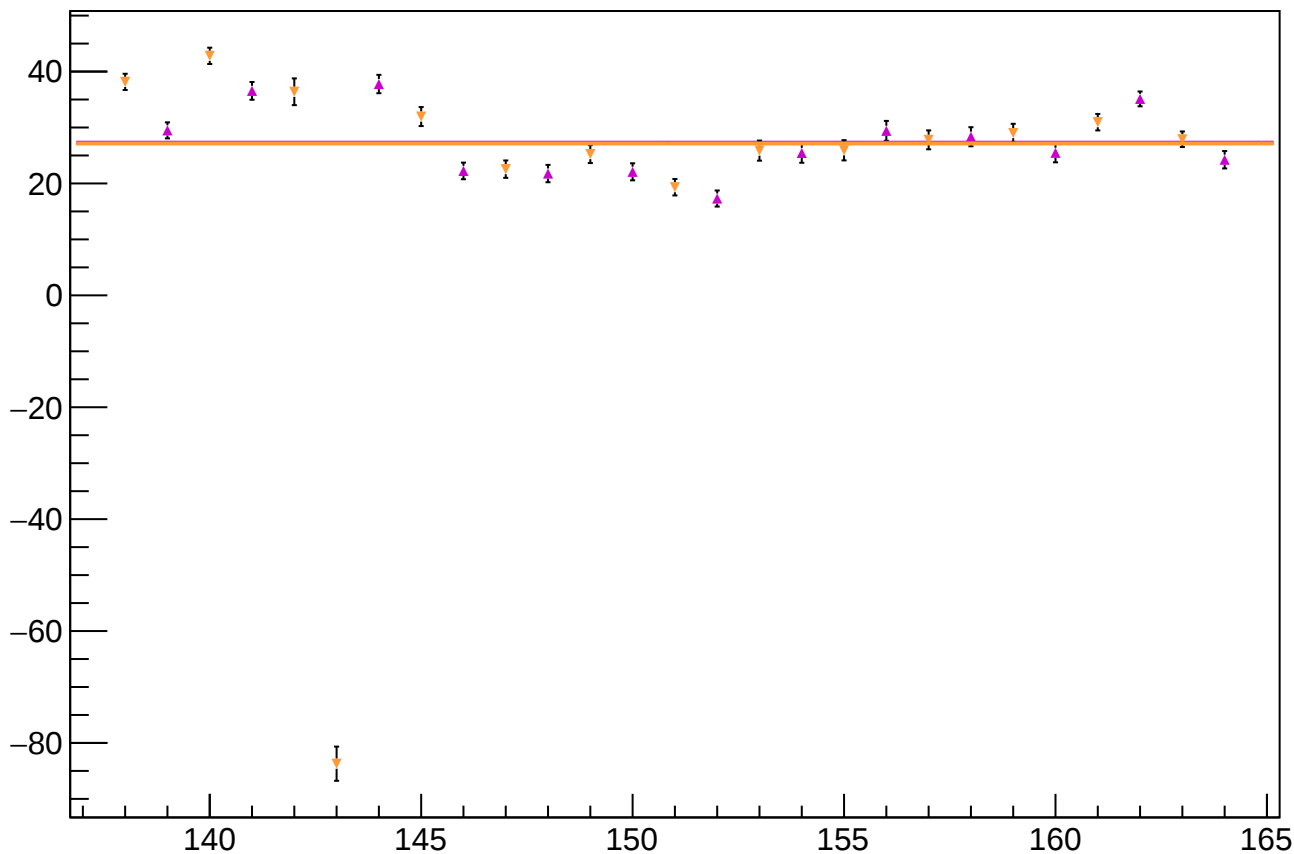
Left In:  $130.901 \pm 0.053$   $\chi^2/\text{NDF}: 7920.9/12$

+ sign  $121.474 \pm 0.042$   $\chi^2/\text{NDF}: 275945.2/30$

All:  $120.199 \pm 0.030$   $\chi^2/\text{NDF}: 593864.7/61$

- sign  $118.959 \pm 0.042$   $\chi^2/\text{NDF}: 316139.1/30$

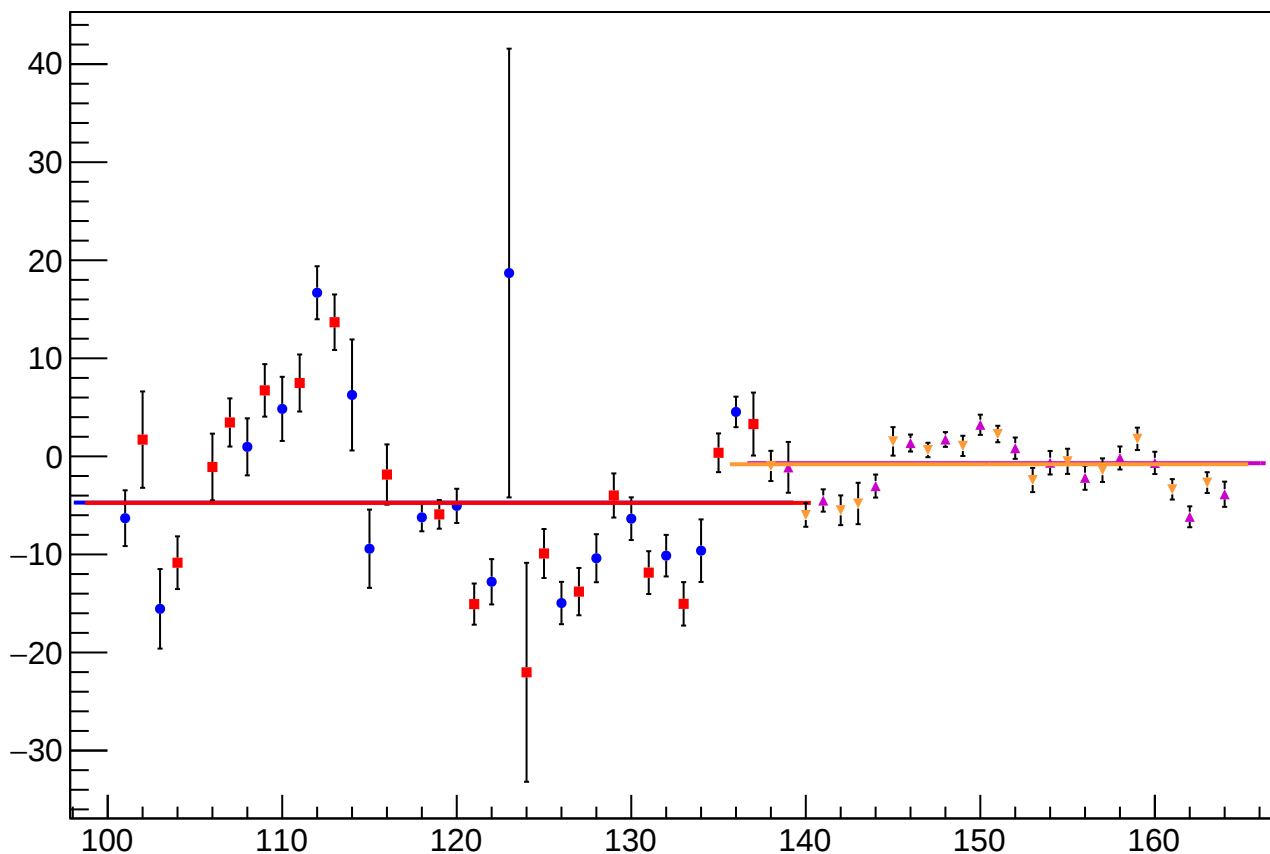
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 27.146+/-0.441     $\chi^2/\text{NDF}$ :1559.6/13  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 27.282+/-0.432     $\chi^2/\text{NDF}$ :204.1/12

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 All: 27.215+/-0.309     $\chi^2/\text{NDF}$ : 1763.8/26  
 - 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:  $-0.802 \pm 0.302$   $\chi^2/\text{NDF}$ : 71.2/13

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

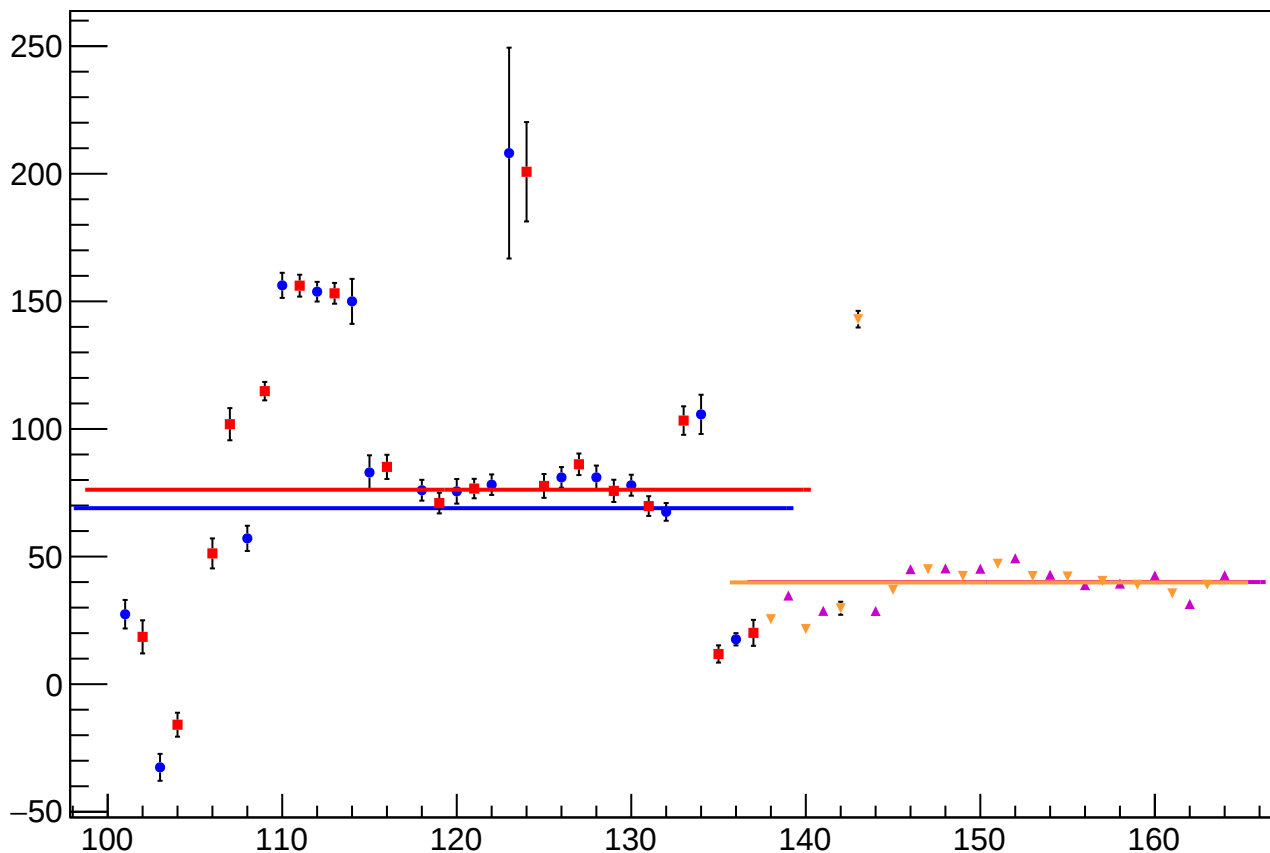
Left In:  $-0.694 \pm 0.303$   $\chi^2/\text{NDF}$ : 81.5/12

+ sign  $-1.635 \pm 0.268$   $\chi^2/\text{NDF}$ : 281.6/30

All:  $-1.593 \pm 0.190$   $\chi^2/\text{NDF}$ : 590.2/61

- sign  $-1.552 \pm 0.269$   $\chi^2/\text{NDF}$ : 308.6/30

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 68.960 $\pm$ 1.079  $\chi^2/\text{NDF}$ : 1844.0/16

Left Out: 39.879 $\pm$ 0.430  $\chi^2/\text{NDF}$ :1298.3/13

Right Out: 76.199 $\pm$ 1.071  $\chi^2/\text{NDF}$ : 1881.0/17

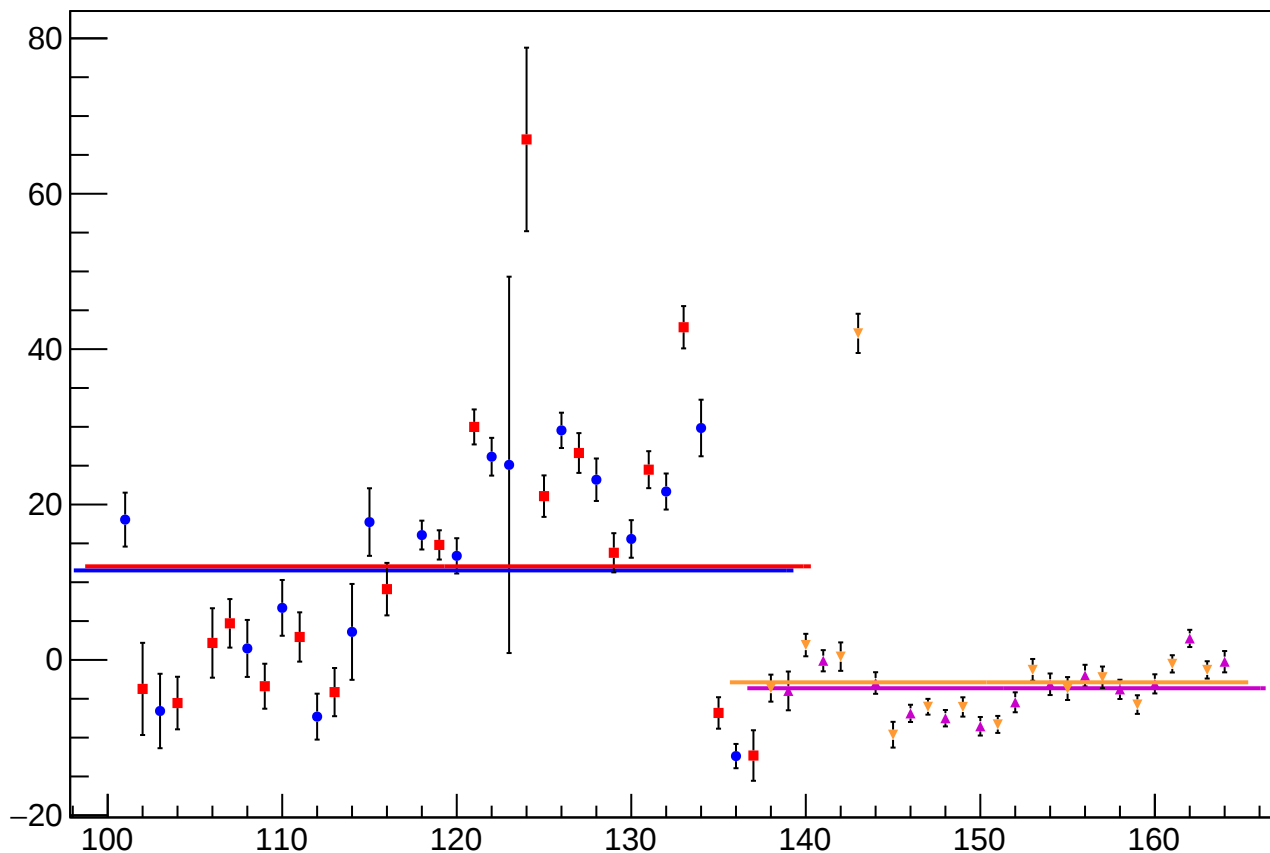
Left In: 40.020 $\pm$ 0.420  $\chi^2/\text{NDF}$ :238.4/12

+ sign 43.863 $\pm$ 0.399  $\chi^2/\text{NDF}$ : 3769.3/30

All: 44.359 $\pm$ 0.279  $\chi^2/\text{NDF}$ : 6881.0/61

- sign 44.835 $\pm$ 0.391  $\chi^2/\text{NDF}$ : 3108.6/30

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: -2.882 $\pm$ 0.356  $\chi^2$ /NDF: 402.1/13

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

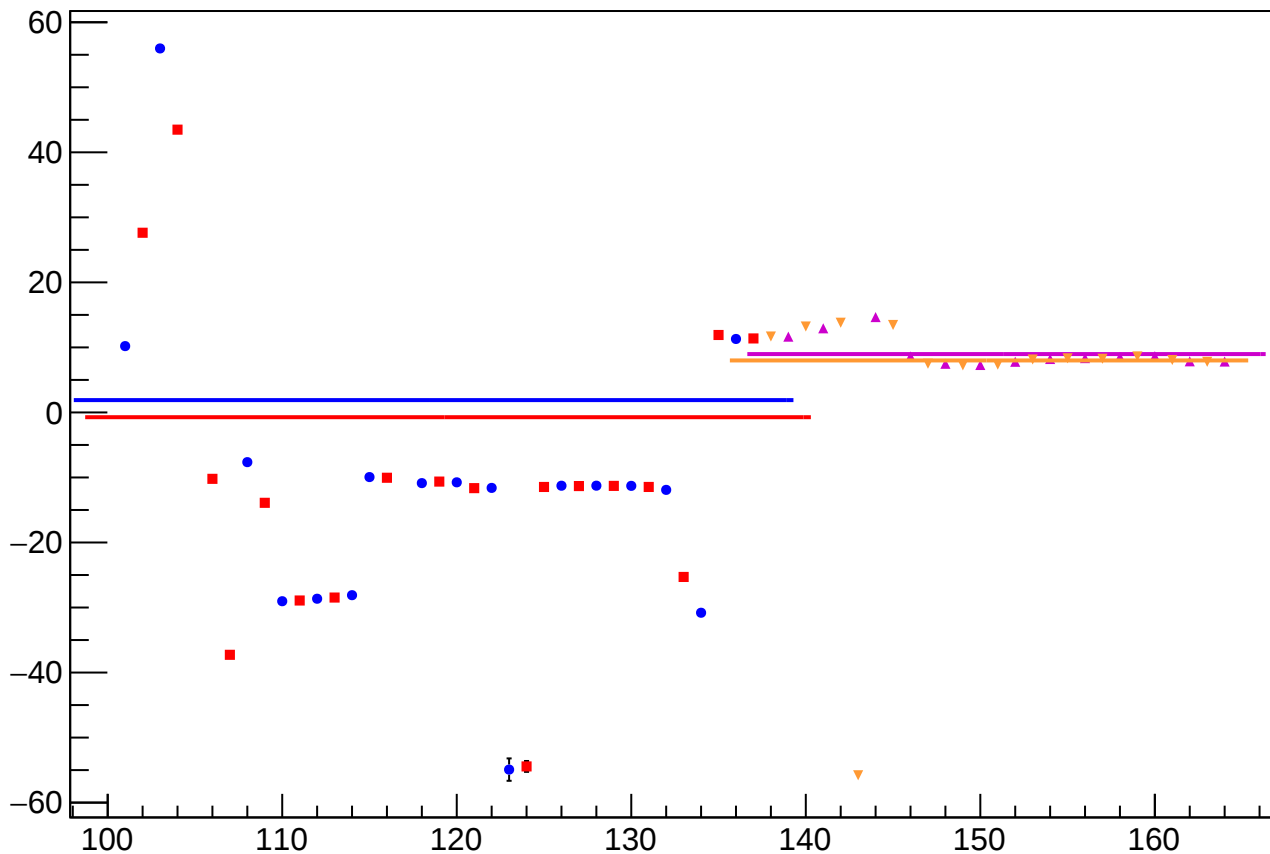
Left In: -3.645 $\pm$ 0.355  $\chi^2$ /NDF: 89.0/12

+ sign 0.368 $\pm$ 0.313  $\chi^2$ /NDF: 1248.3/30

All: 0.105 $\pm$ 0.222  $\chi^2$ /NDF: 2311.1/61

- sign -0.158 $\pm$ 0.313  $\chi^2$ /NDF: 1061.4/30

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 1.896 $\pm$ 0.037  $\chi^2$ /NDF: 358855.7/16

Left Out: 7.996 $\pm$ 0.017  $\chi^2$ /NDF: 256470.4/13

Right Out: -0.733 $\pm$ 0.037  $\chi^2$ /NDF: 359934.4/17

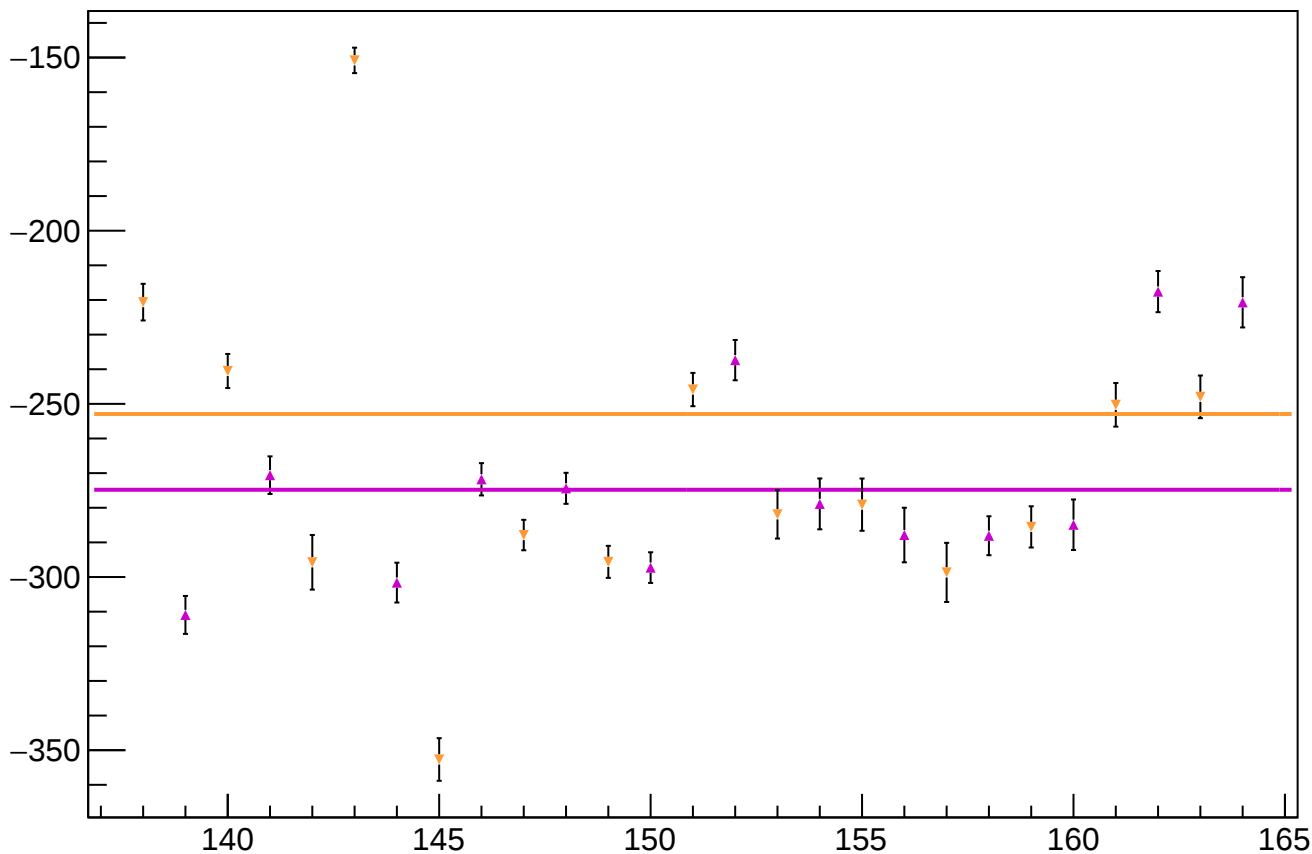
Left In: 8.976 $\pm$ 0.016  $\chi^2$ /NDF: 14330.1/12

+ sign 6.957 $\pm$ 0.015  $\chi^2$ /NDF: 637825.1/30

All: 7.176 $\pm$ 0.011  $\chi^2$ /NDF: 1069724.1/61

- sign 7.387 $\pm$ 0.015  $\chi^2$ /NDF: 431496.3/30

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



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

Left Out: -252.930+/-1.464  $\chi^2/\text{NDF}$ :1346.5/13

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

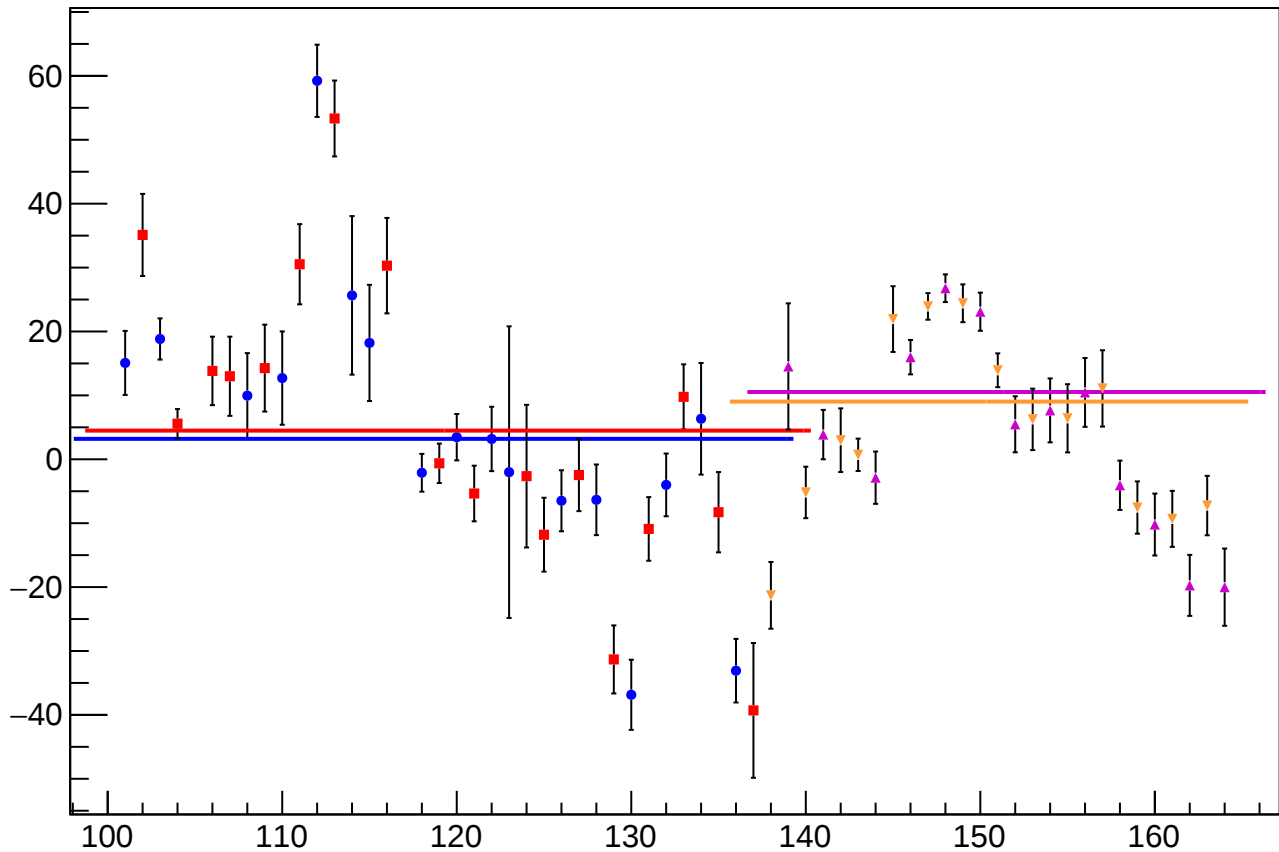
Left In: -274.804+/-1.569  $\chi^2/\text{NDF}$ :292.2/12

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

All: -263.109+/-1.070  $\chi^2/\text{NDF}$ : 1742.6/26

- sign 0.000+/-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:  $9.025 \pm 0.960$   $\chi^2/\text{NDF}$ : 193.3/13

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}$ : 221.8/17

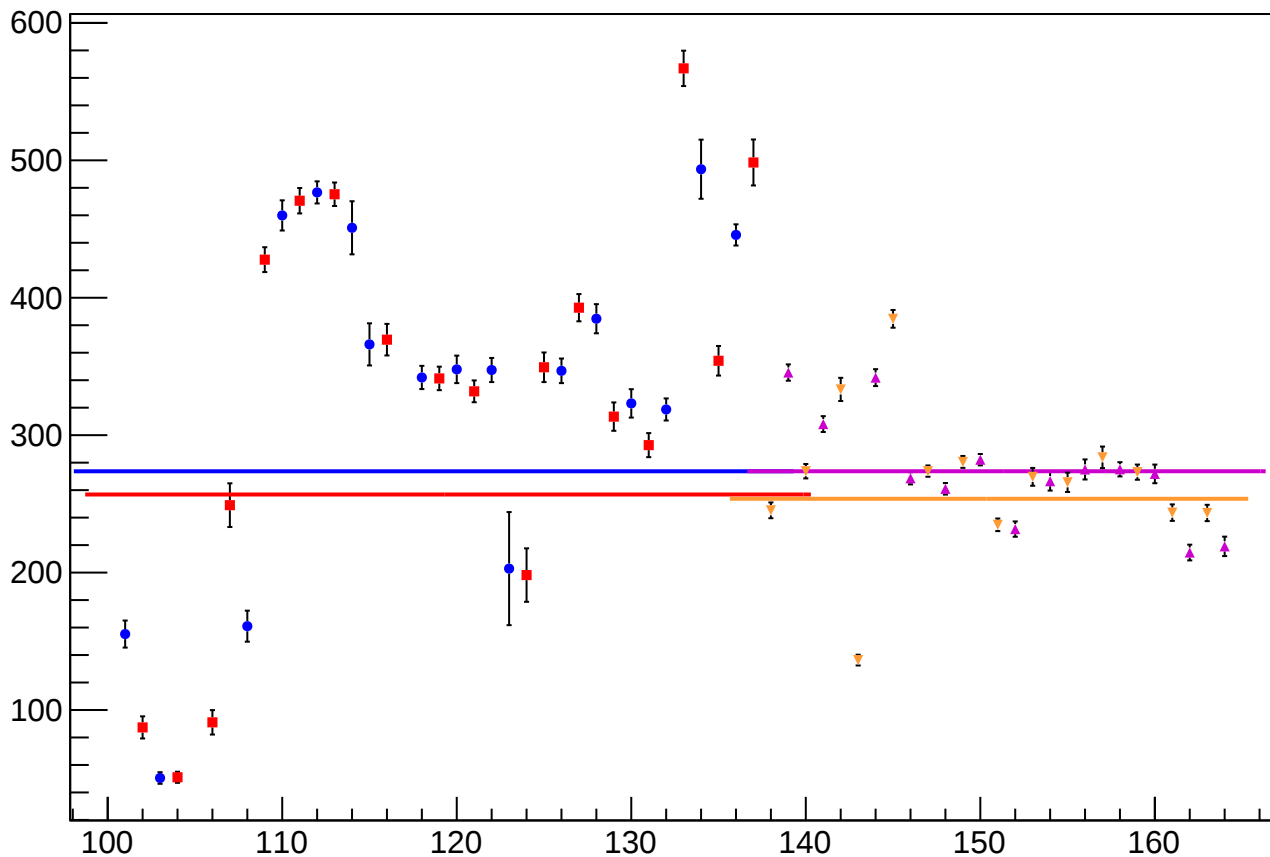
Left In:  $10.527 \pm 1.050$   $\chi^2/\text{NDF}$ : 191.7/12

+ sign  $6.813 \pm 0.756$   $\chi^2/\text{NDF}$ : 462.4/30

All:  $7.294 \pm 0.542$   $\chi^2/\text{NDF}$ : 891.6/61

- sign  $7.804 \pm 0.778$   $\chi^2/\text{NDF}$ : 428.3/30

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:  $253.706 \pm 1.444$   $\chi^2/\text{NDF}$ : 1535.1/13

Right Out:  $256.826 \pm 2.084$   $\chi^2/\text{NDF}$ : 6411.8/17

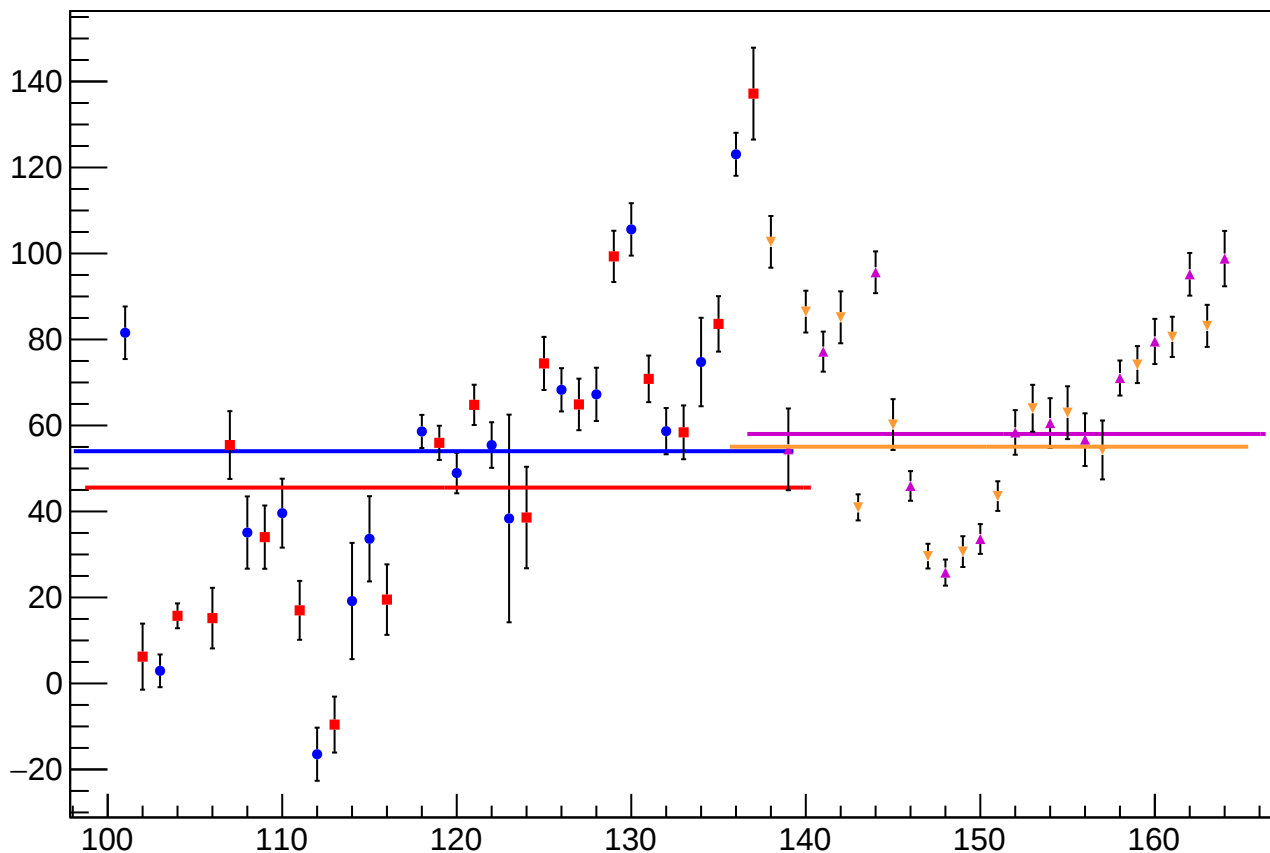
Left In:  $273.749 \pm 1.521$   $\chi^2/\text{NDF}$ : 544.2/12

+ sign  $259.753 \pm 1.206$   $\chi^2/\text{NDF}$ : 6696.5/30

All:  $263.735 \pm 0.861$   $\chi^2/\text{NDF}$ : 13717.6/61

- sign  $267.865 \pm 1.229$   $\chi^2/\text{NDF}$ : 6999.0/30

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: 55.060 $\pm$ 1.161  $\chi^2$ /NDF:374.8/13

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

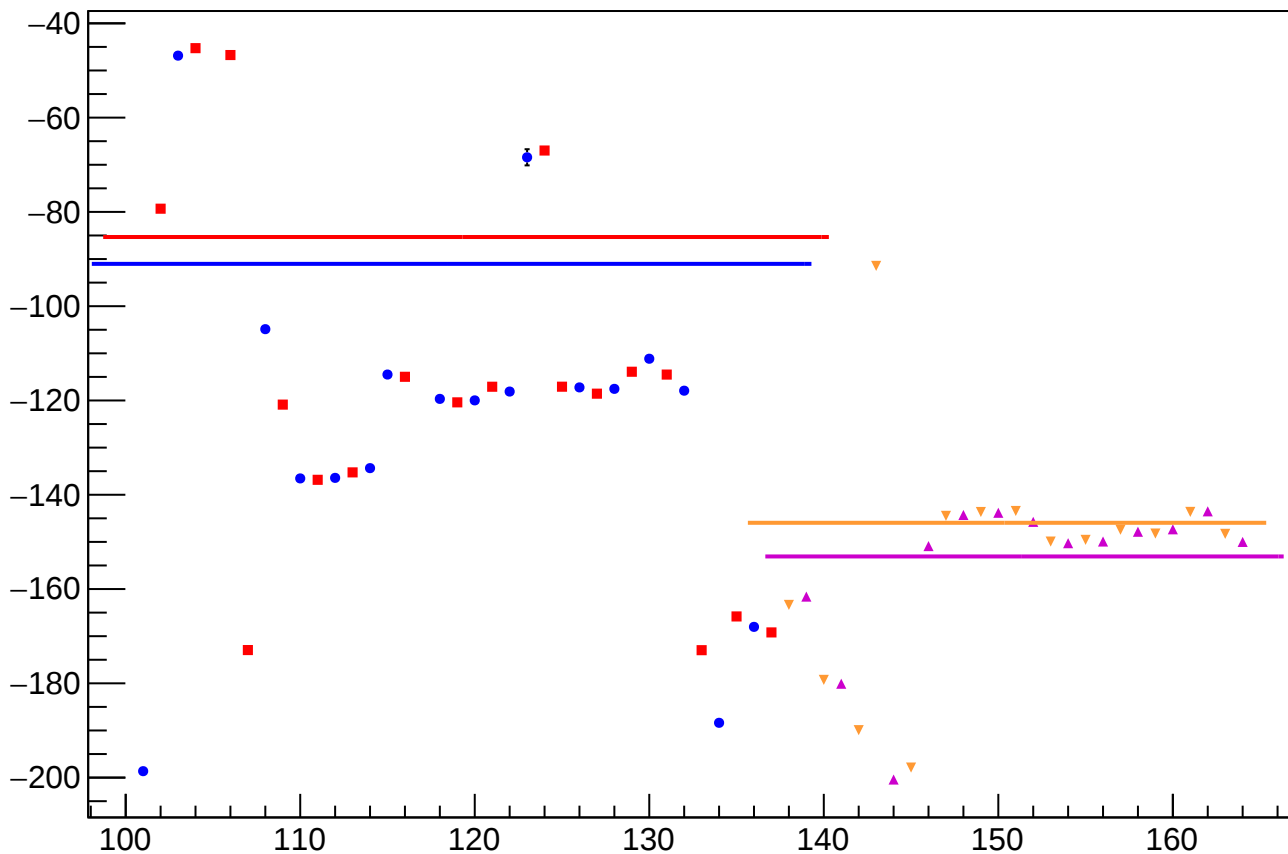
Left In: 58.021 $\pm$ 1.260  $\chi^2$ /NDF:375.1/12

+ sign 54.643 $\pm$ 0.900  $\chi^2$ /NDF: 1008.0/30

All: 53.481 $\pm$ 0.645  $\chi^2$ /NDF: 1958.4/61

- sign 52.256 $\pm$ 0.924  $\chi^2$ /NDF: 947.0/30

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -91.021 $\pm$ 0.068  $\chi^2$ /NDF: 534258.1/16

Left Out: -145.947 $\pm$ 0.058  $\chi^2$ /NDF: 205665.6/13

Right Out: -85.325 $\pm$ 0.065  $\chi^2$ /NDF: 483106.3/17

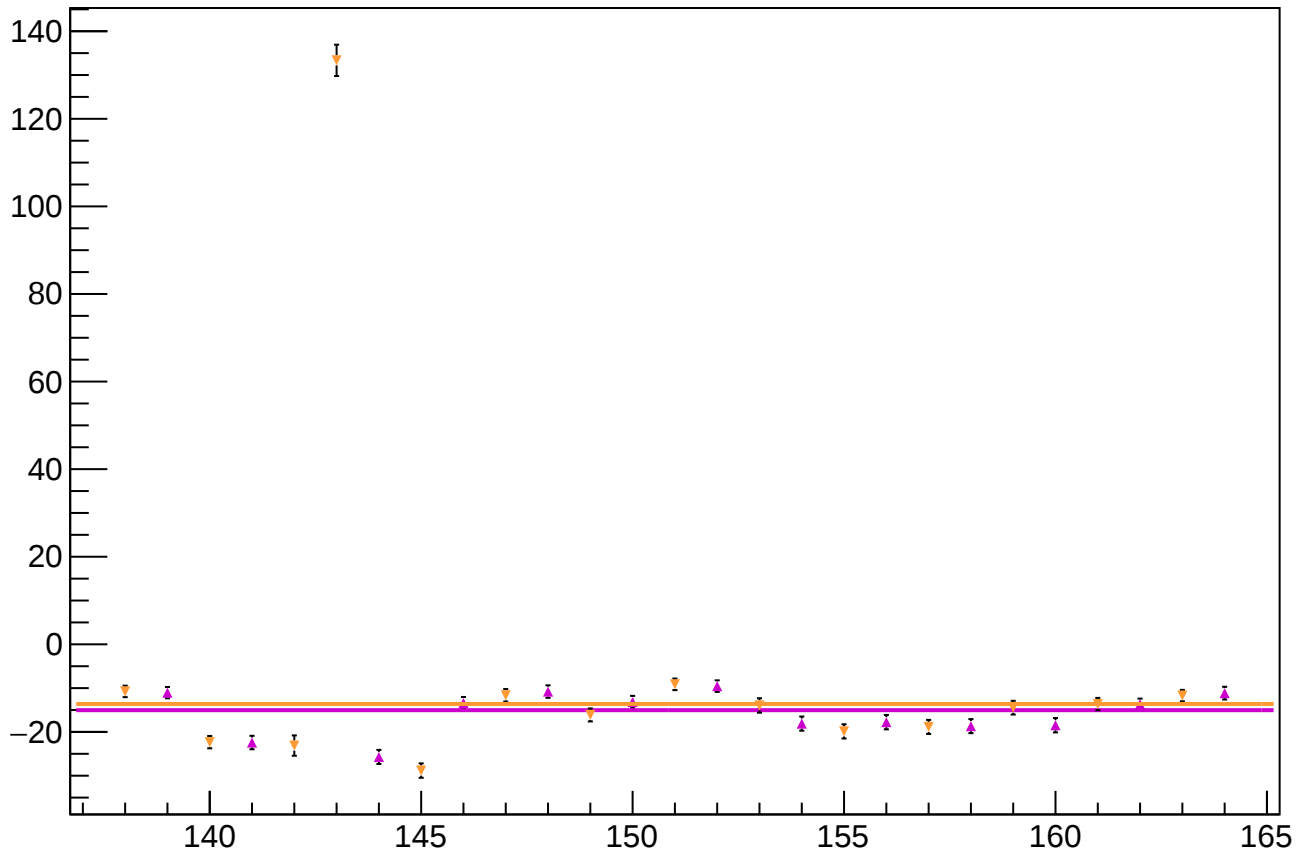
Left In: -153.086 $\pm$ 0.061  $\chi^2$ /NDF: 55756.2/12

+ sign -122.600 $\pm$ 0.044  $\chi^2$ /NDF: 1119678.4/30

All: -122.126 $\pm$ 0.031  $\chi^2$ /NDF: 2238402.5/61

- sign -121.646 $\pm$ 0.044  $\chi^2$ /NDF: 1118491.8/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



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

Left Out: -13.617+/-0.413  $\chi^2/\text{NDF}$ : 1873.2/13

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

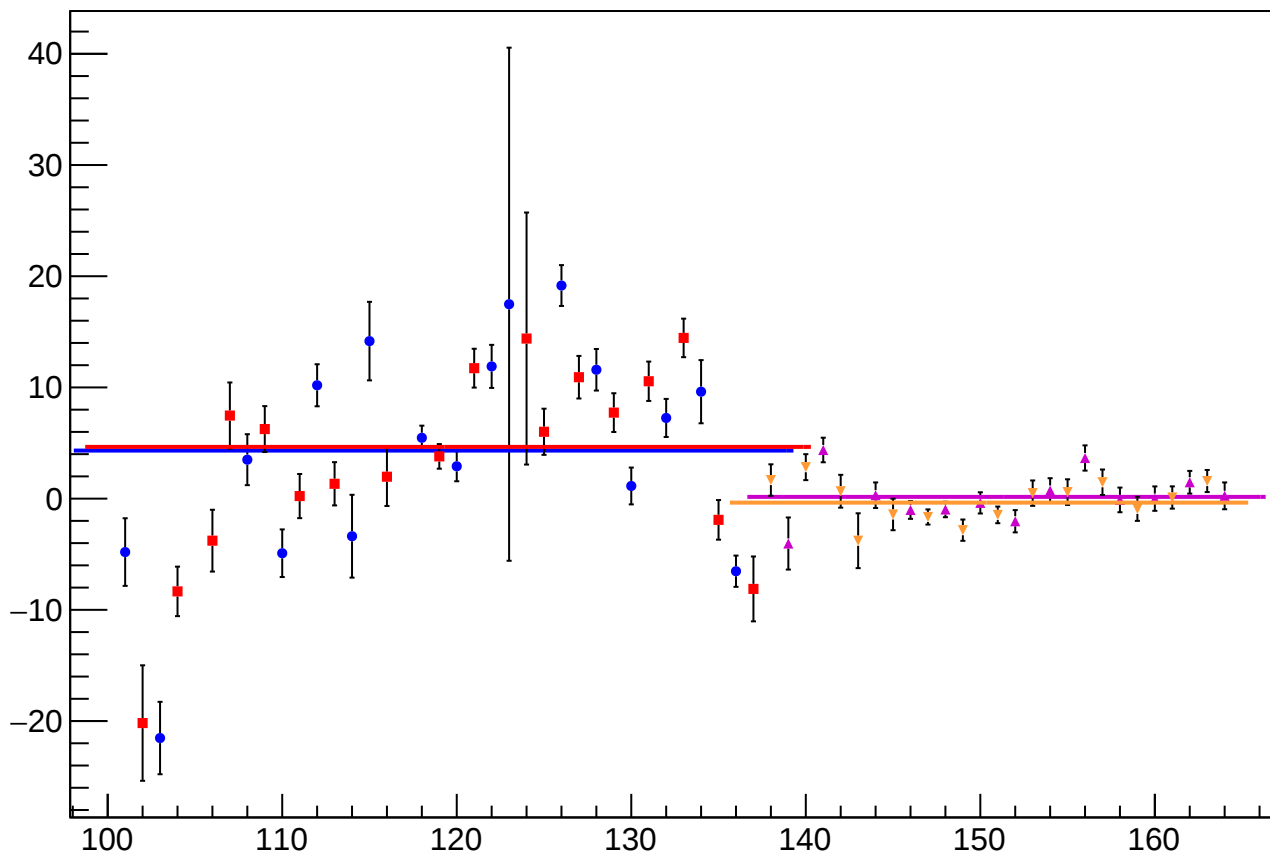
Left In: -15.038+/-0.405  $\chi^2/\text{NDF}$ : 130.1/12

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

All: -14.343+/-0.289  $\chi^2/\text{NDF}$ : 2009.3/26

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

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.322 $\pm$ 0.465  $\chi^2$ /NDF: 280.3/16

Left Out: -0.359 $\pm$ 0.282  $\chi^2$ /NDF:33.1/13

Right Out: 4.653 $\pm$ 0.474  $\chi^2$ /NDF: 184.4/17

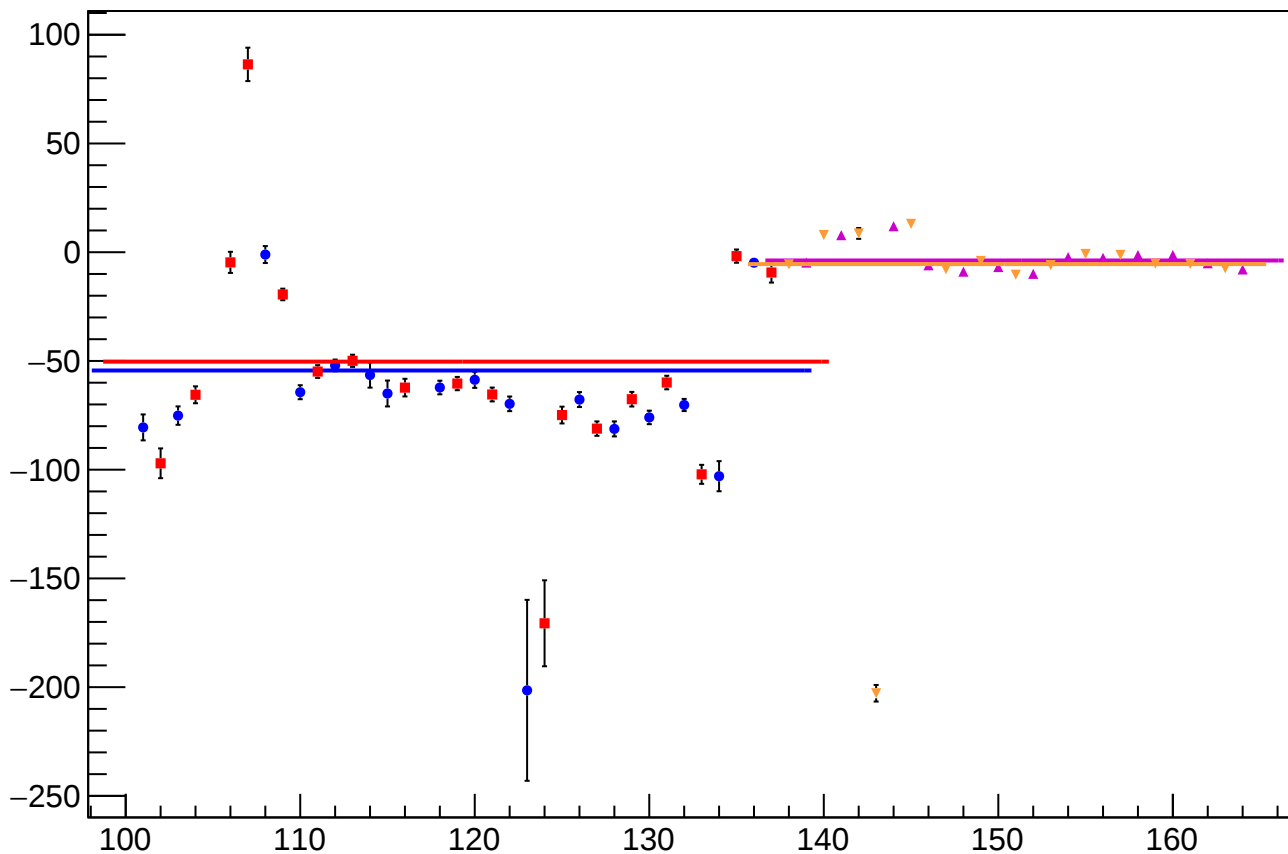
Left In: 0.158 $\pm$ 0.284  $\chi^2$ /NDF:39.2/12

+ sign 0.901 $\pm$ 0.241  $\chi^2$ /NDF: 387.3/30

All: 1.122 $\pm$ 0.172  $\chi^2$ /NDF: 678.8/61

- sign 1.348 $\pm$ 0.244  $\chi^2$ /NDF: 289.8/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -54.387 $\pm$ 0.864  $\chi^2$ /NDF: 1014.0/16

Left Out: -5.467 $\pm$ 0.403  $\chi^2$ /NDF: 2936.3/13

Right Out: -50.316 $\pm$ 0.858  $\chi^2$ /NDF: 1319.3/17

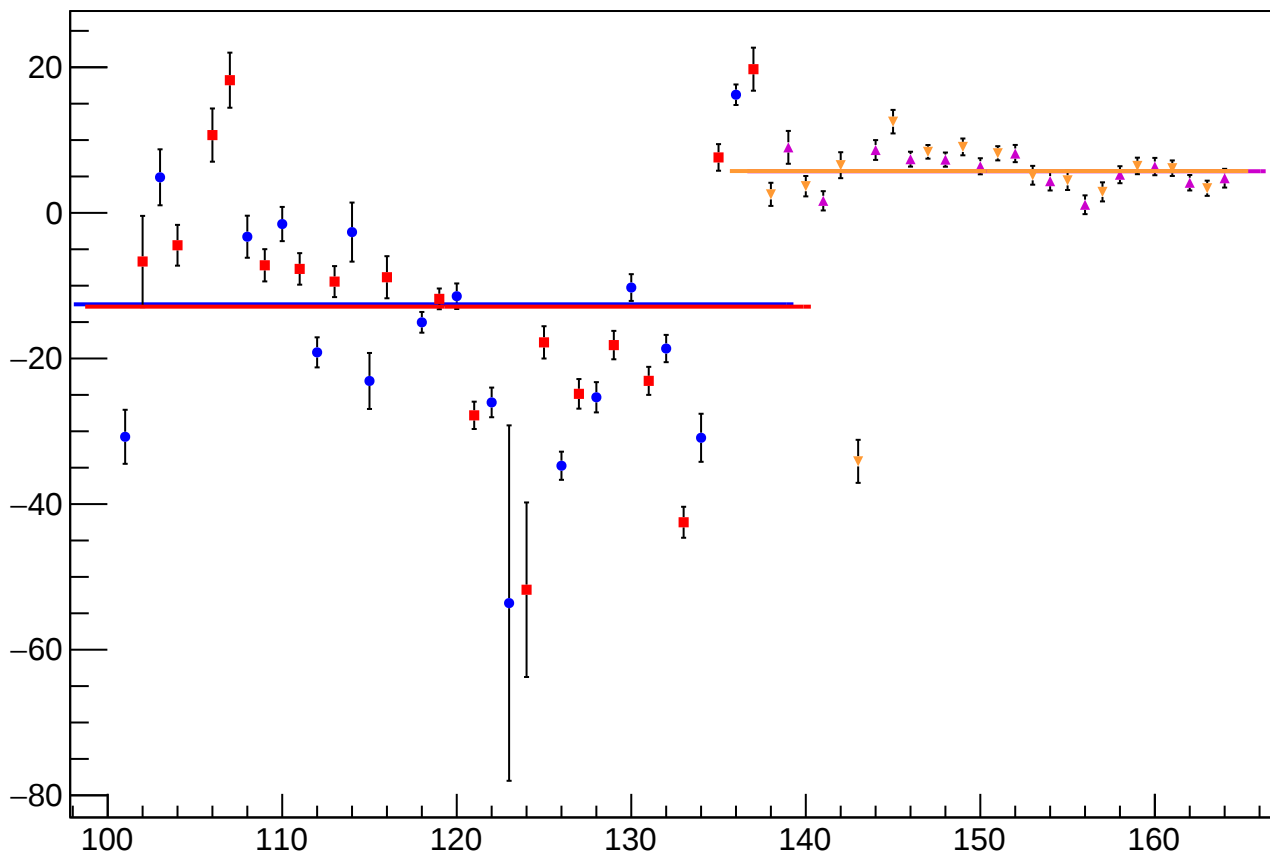
Left In: -3.799 $\pm$ 0.393  $\chi^2$ /NDF: 198.3/12

+ sign -14.186 $\pm$ 0.365  $\chi^2$ /NDF: 6581.8/30

All: -12.996 $\pm$ 0.255  $\chi^2$ /NDF: 10548.7/61

- sign -11.857 $\pm$ 0.357  $\chi^2$ /NDF: 3946.1/30

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:  $5.744 \pm 0.334$   $\chi^2/\text{NDF}$ : 239.9/13

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

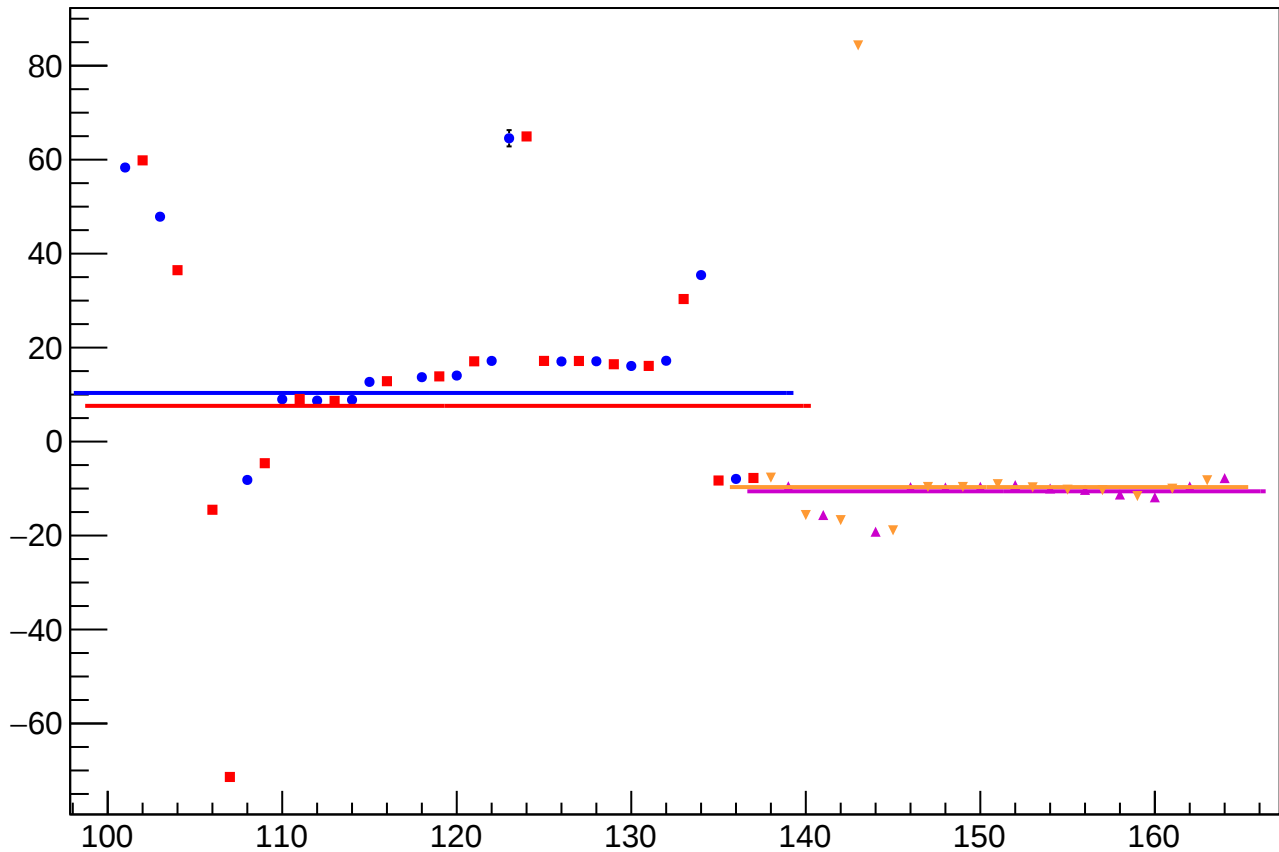
Left In:  $5.717 \pm 0.333$   $\chi^2/\text{NDF}$ : 43.1/12

+ sign  $0.567 \pm 0.283$   $\chi^2/\text{NDF}$ : 1870.2/30

All:  $0.563 \pm 0.200$   $\chi^2/\text{NDF}$ : 3502.7/61

- sign  $0.559 \pm 0.283$   $\chi^2/\text{NDF}$ : 1632.5/30

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: -9.686+/-0.016  $\chi^2/\text{NDF}$ : 409891.2/13

Right Out: 7.602+/-0.031  $\chi^2/\text{NDF}$ : 538460.3/17

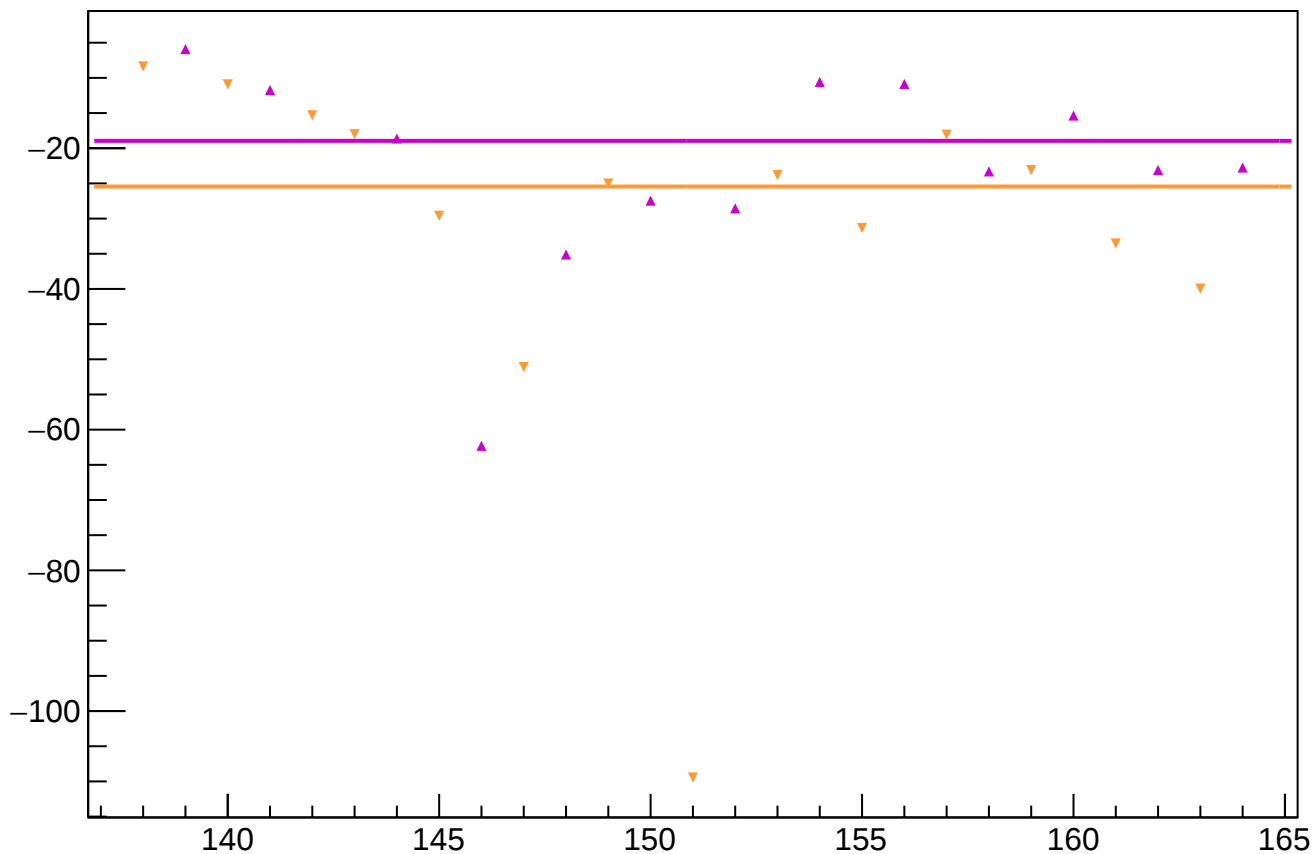
Left In: -10.585+/-0.015  $\chi^2/\text{NDF}$ : 24335.4/12

+ sign -5.502+/-0.014  $\chi^2/\text{NDF}$ : 1130404.5/30

All: -6.288+/-0.010  $\chi^2/\text{NDF}$ : 1971641.1/61

- sign -7.054+/-0.014  $\chi^2/\text{NDF}$ : 834984.4/30

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



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

Left Out: -25.444+/-0.069  $\chi^2/\text{NDF}$ : 56393.1/13

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

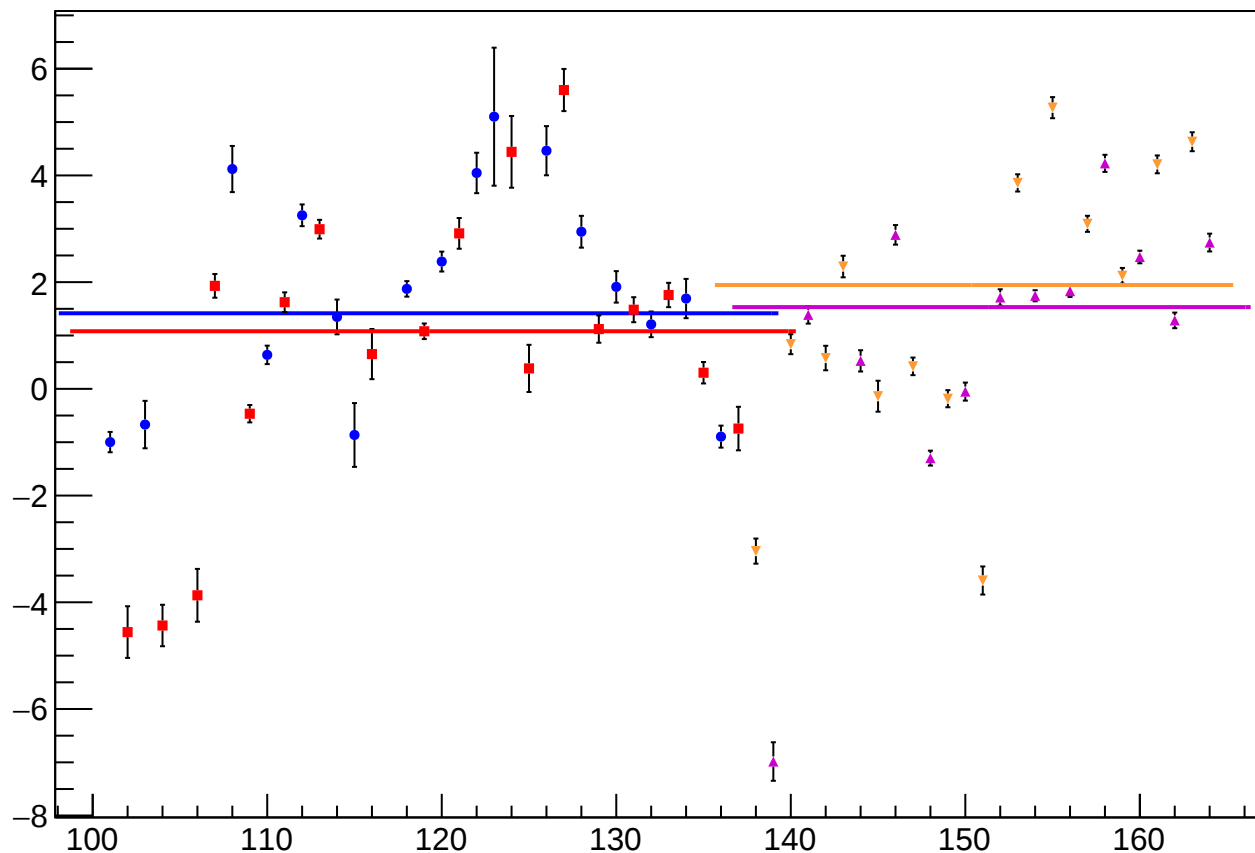
Left In: -18.950+/-0.057  $\chi^2/\text{NDF}$ : 37852.3/12

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

All: -21.621+/-0.044  $\chi^2/\text{NDF}$ : 99503.6/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 1.946 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 2172.6/13

Right Out: 1.080 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 916.1/17

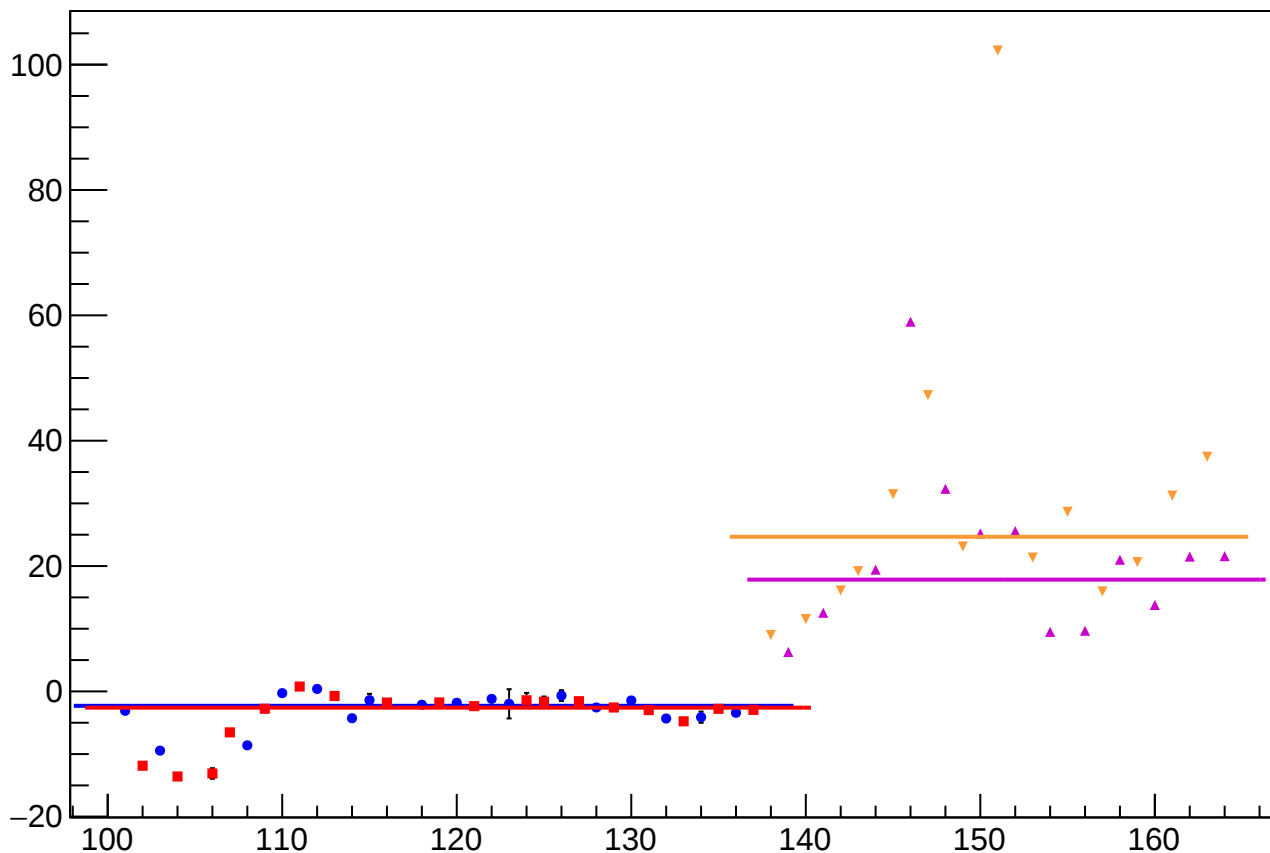
Left In: 1.532 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1549.2/12

+ sign 1.738 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 2849.3/30

All: 1.536 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 5404.0/61

- sign 1.383 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 2505.9/30

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.299 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.0/16

Left Out:  $24.668 \pm 0.067$   $\chi^2/\text{NDF}$ : 50455.7/13

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

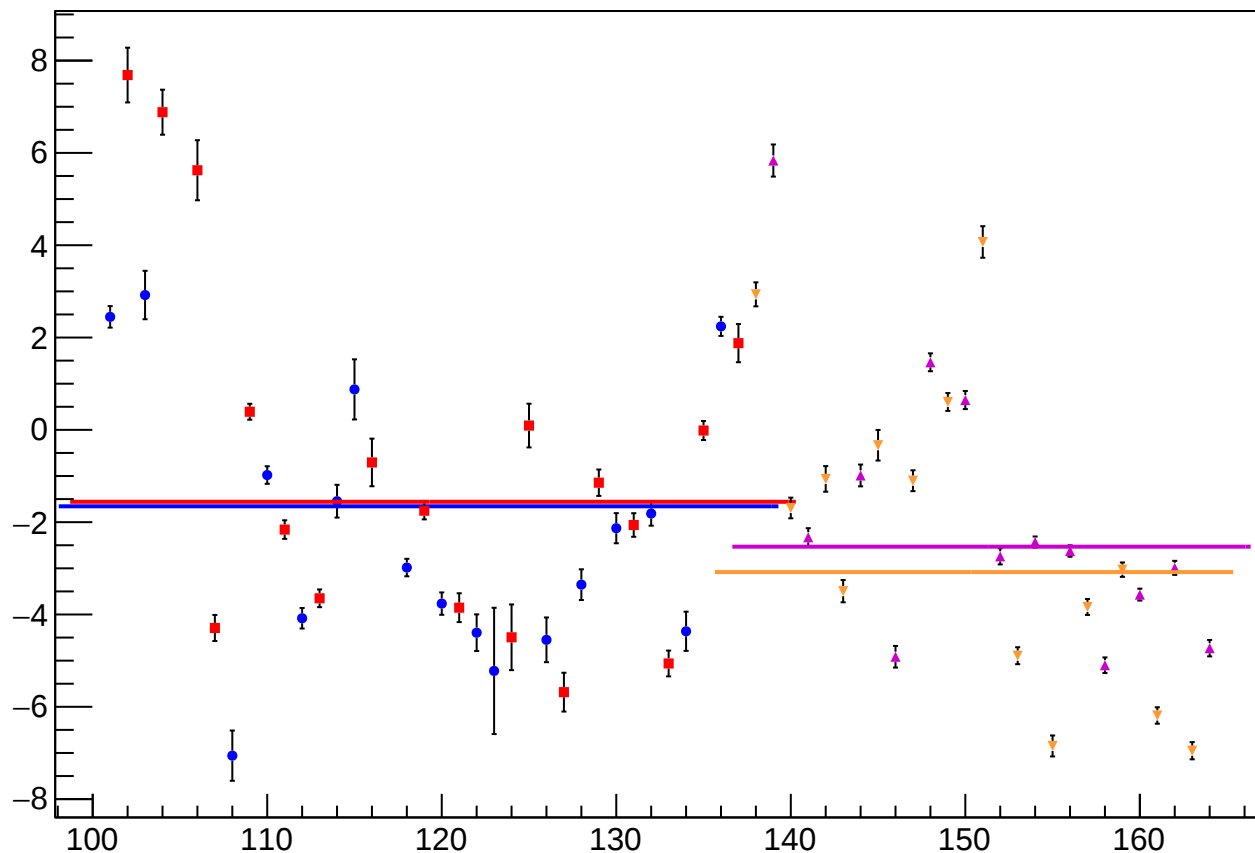
Left In:  $17.834 \pm 0.055$   $\chi^2/\text{NDF}$ : 35711.9/12

+ sign  $17.431 \pm 0.057$   $\chi^2/\text{NDF}$ : 94205.7/30

All:  $14.842 \pm 0.037$   $\chi^2/\text{NDF}$ : 166633.8/61

- sign  $13.017 \pm 0.048$   $\chi^2/\text{NDF}$ : 68962.2/30

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: -3.081 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 2705.9/13

Right Out: -1.558 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 1484.7/17

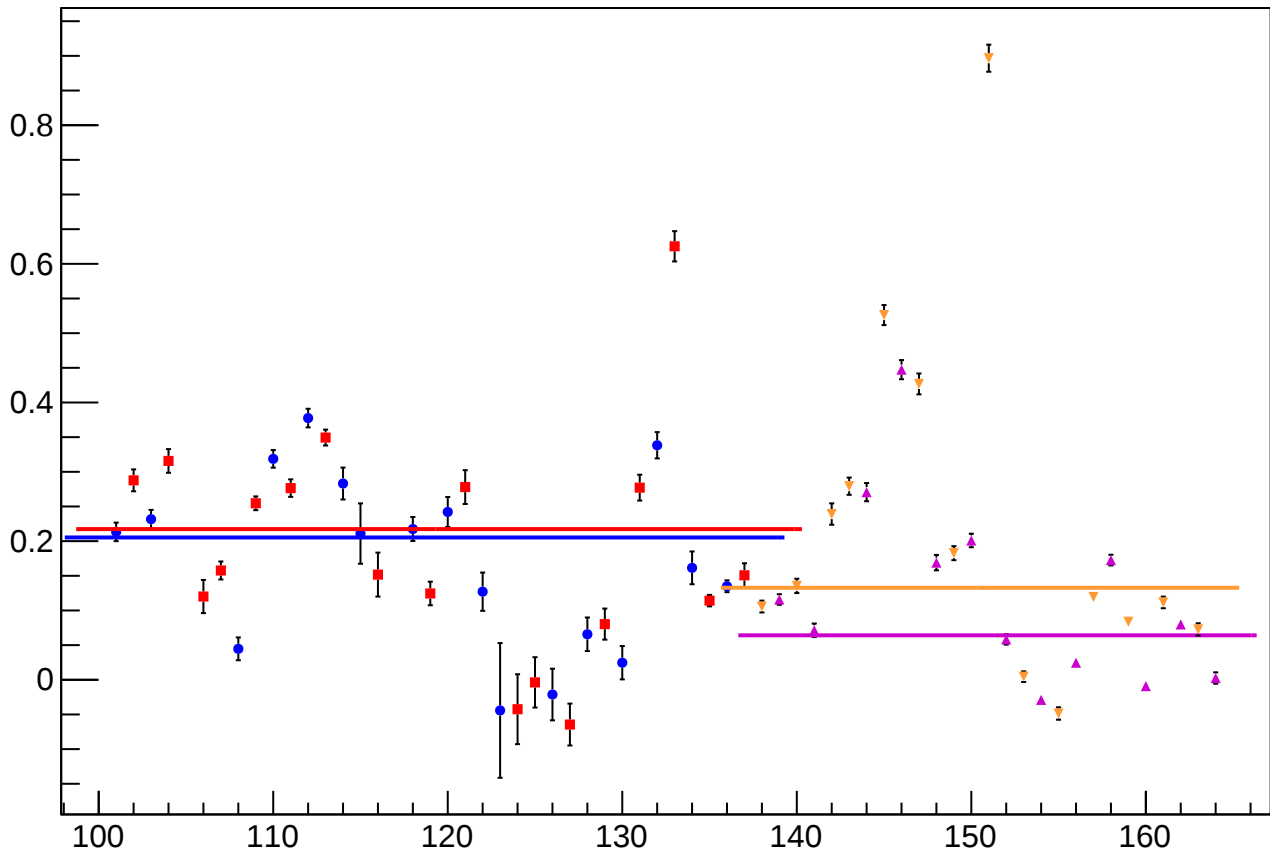
Left In: -2.531 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 1874.3/12

+ sign -2.523 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 4226.0/30

All: -2.341 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 7760.5/61

- sign -2.206 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 3504.8/30

# 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:  $0.133 \pm 0.003$   $\chi^2/\text{NDF}$ : 3661.9/13

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

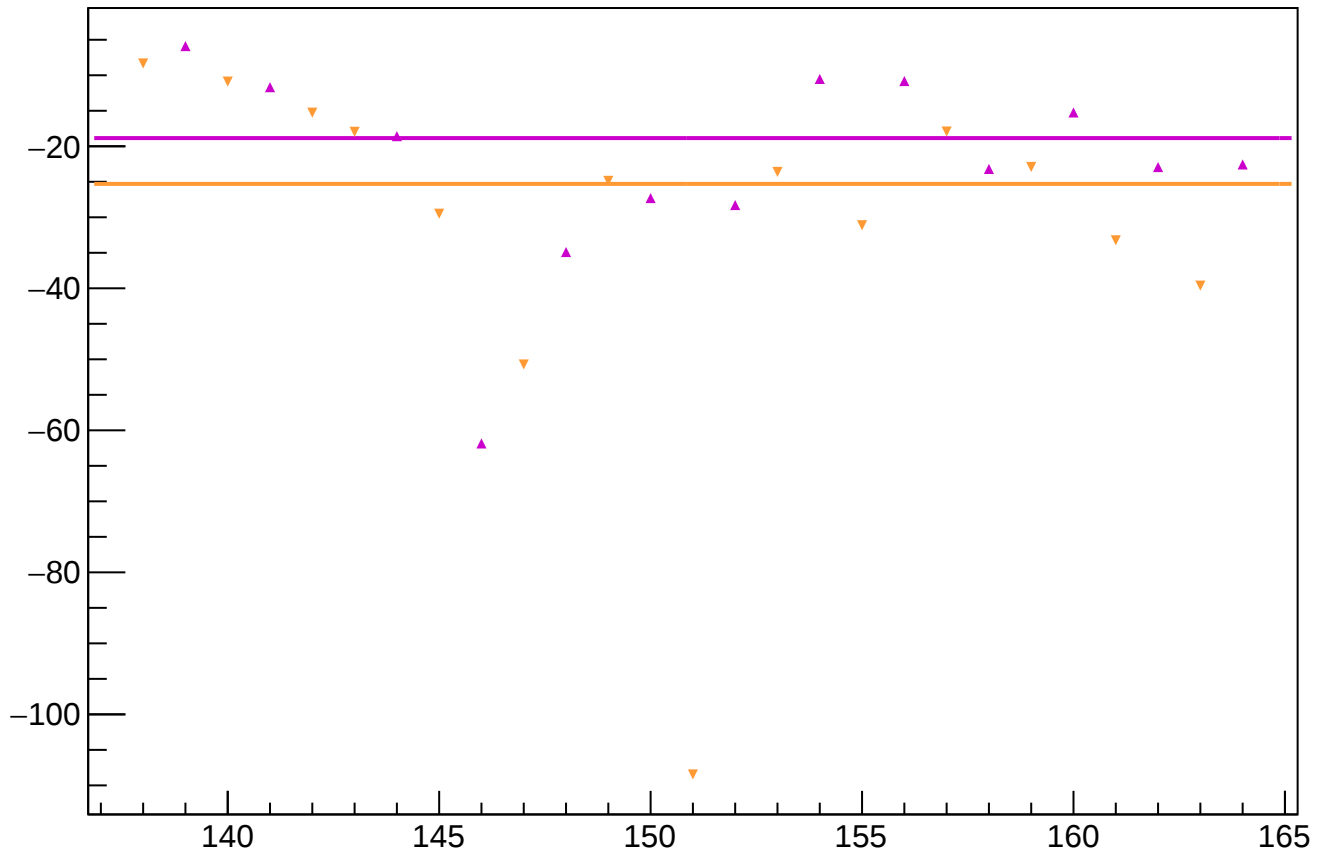
Left In:  $0.064 \pm 0.002$   $\chi^2/\text{NDF}$ : 2182.3/12

+ sign  $0.153 \pm 0.002$   $\chi^2/\text{NDF}$ : 4505.0/30

All:  $0.121 \pm 0.001$   $\chi^2/\text{NDF}$ : 9370.0/61

- sign  $0.100 \pm 0.002$   $\chi^2/\text{NDF}$ : 4510.7/30

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



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

Left Out: -25.296+/-0.068  $\chi^2/\text{NDF}$ : 56198.5/13

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

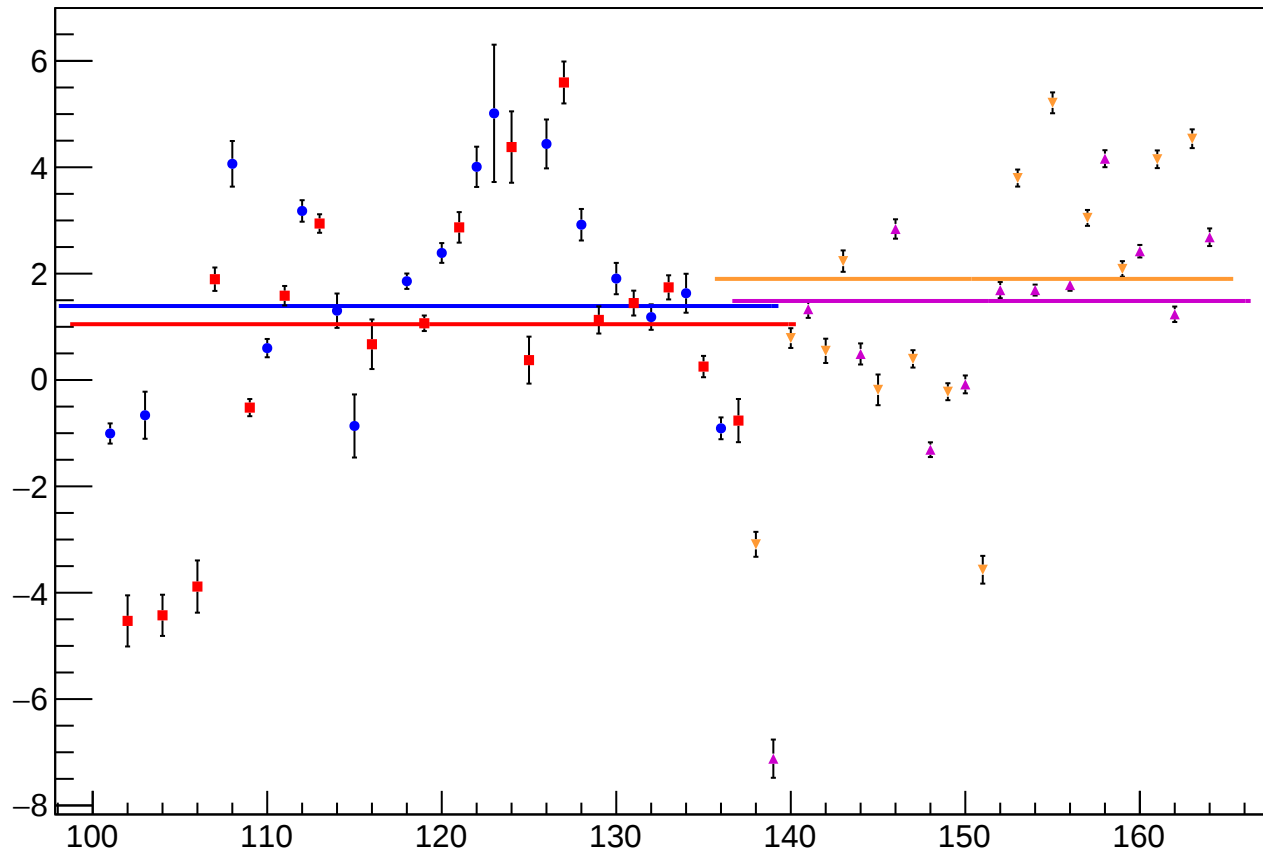
Left In: -18.848+/-0.057  $\chi^2/\text{NDF}$ : 37764.7/12

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

All: -21.500+/-0.044  $\chi^2/\text{NDF}$ : 99211.2/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 1.901 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 2172.1/13

Right Out: 1.049 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 919.8/17

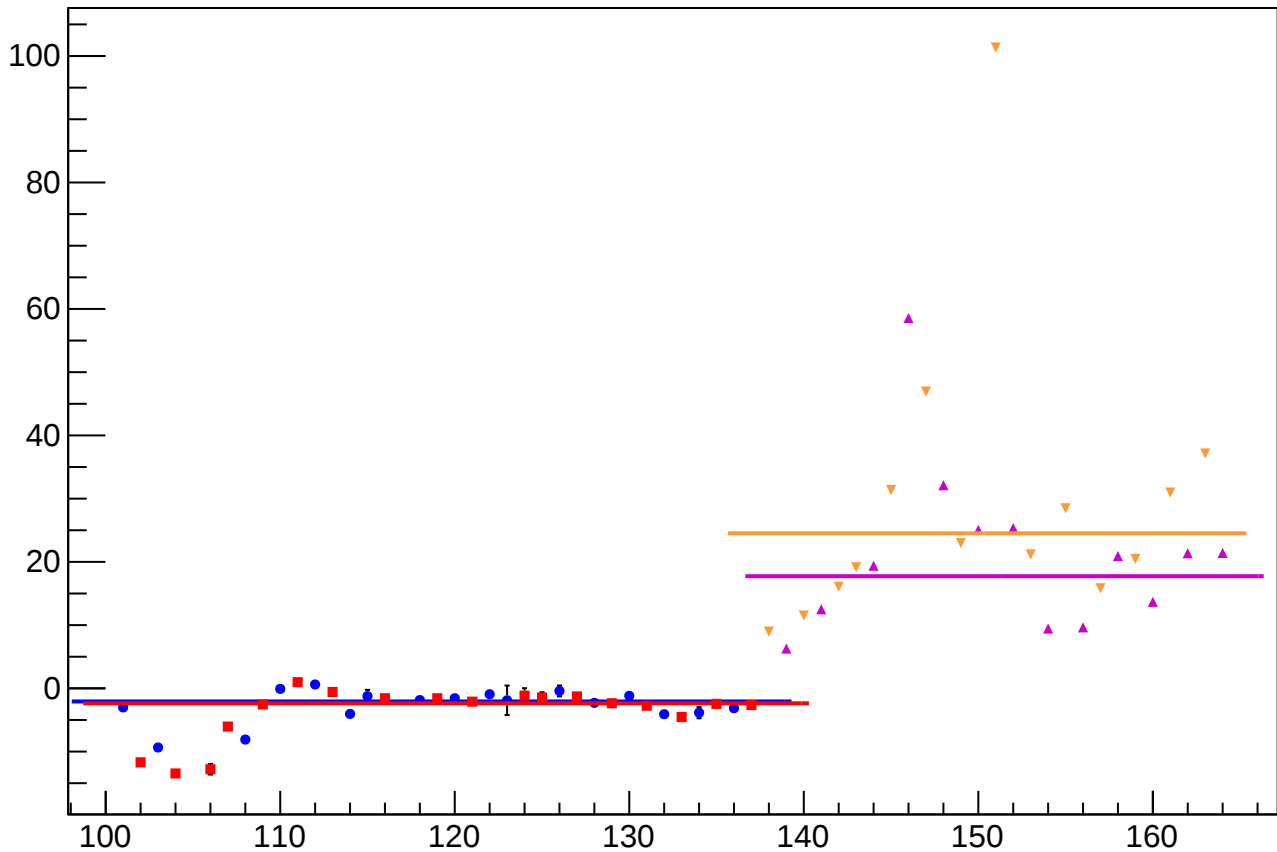
Left In: 1.486 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1561.0/12

+ sign 1.702 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 2844.0/30

All: 1.497 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 5413.5/61

- sign 1.342 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 2518.9/30

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.075 \pm 0.110$   $\chi^2/\text{NDF}$ : 442.3/16

Left Out:  $24.518 \pm 0.067$   $\chi^2/\text{NDF}$ : 50309.9/13

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

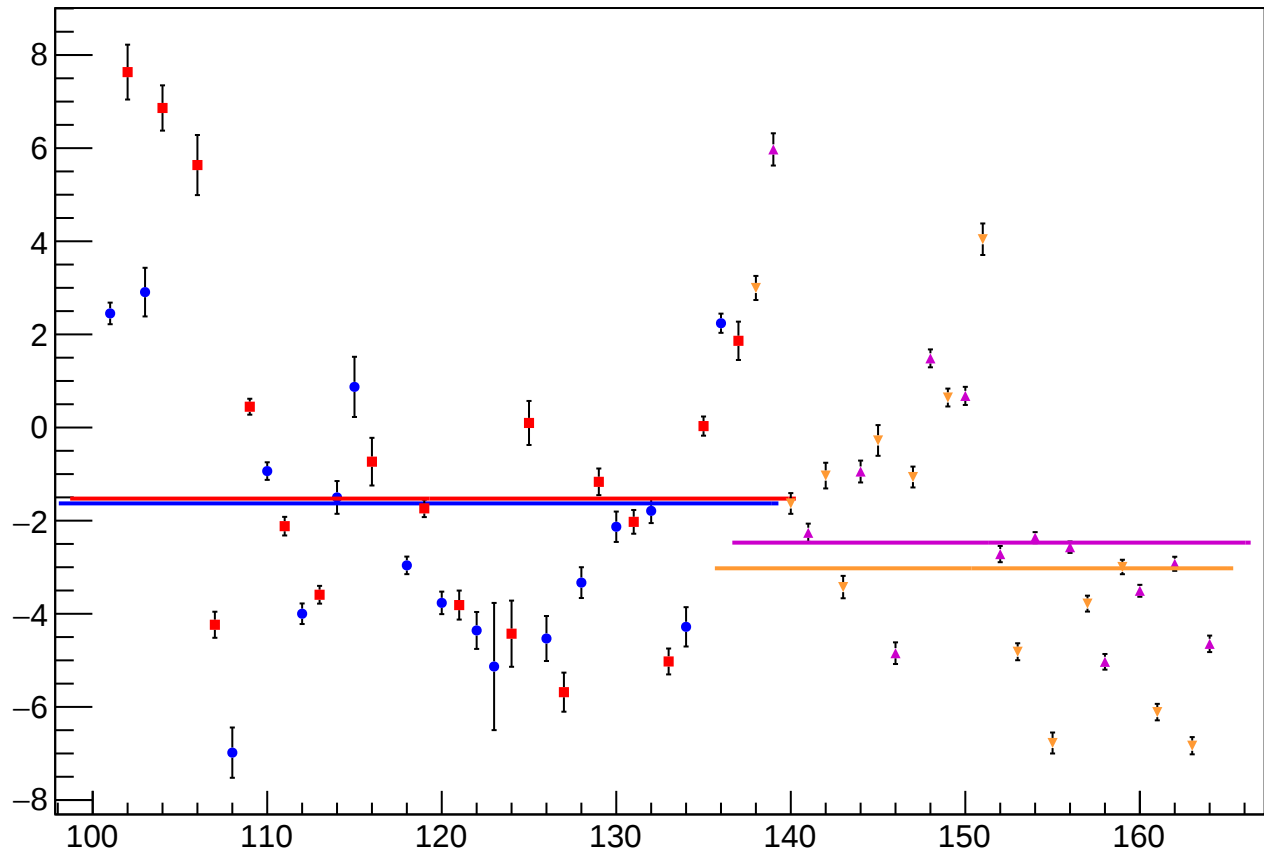
Left In:  $17.737 \pm 0.055$   $\chi^2/\text{NDF}$ : 35640.7/12

+ sign  $17.395 \pm 0.057$   $\chi^2/\text{NDF}$ : 93324.0/30

All:  $14.818 \pm 0.037$   $\chi^2/\text{NDF}$ : 165019.3/61

- sign  $13.001 \pm 0.048$   $\chi^2/\text{NDF}$ : 68218.4/30

# 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: -3.023 $\pm$ 0.056  $\chi^2/\text{NDF}$ : 2704.1/13

Right Out: -1.526 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 1488.2/17

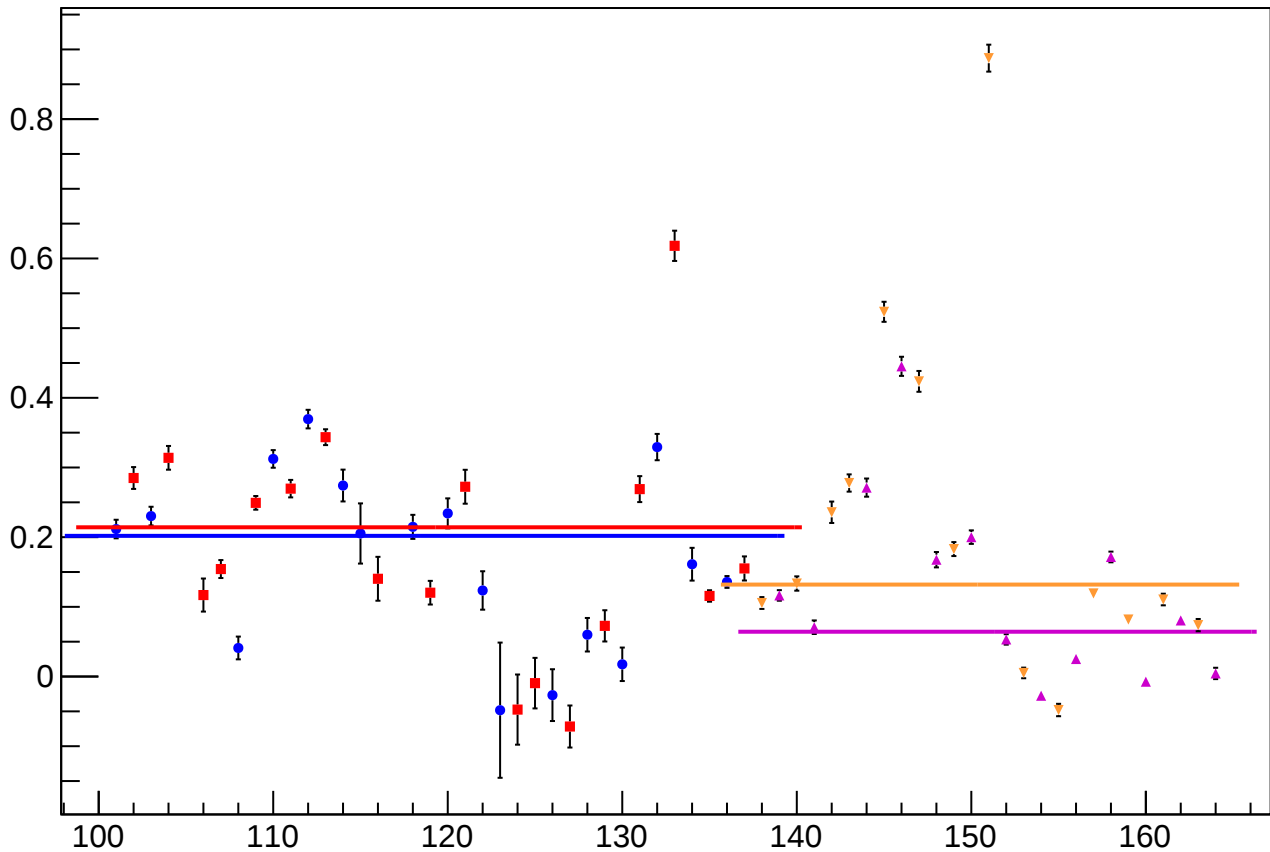
Left In: -2.472 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 1887.9/12

+ sign -2.479 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 4211.3/30

All: -2.294 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 7757.7/61

- sign -2.156 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 3515.4/30

# 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:  $0.132 \pm 0.003$   $\chi^2/\text{NDF}$ : 3653.2/13

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1001.6/17

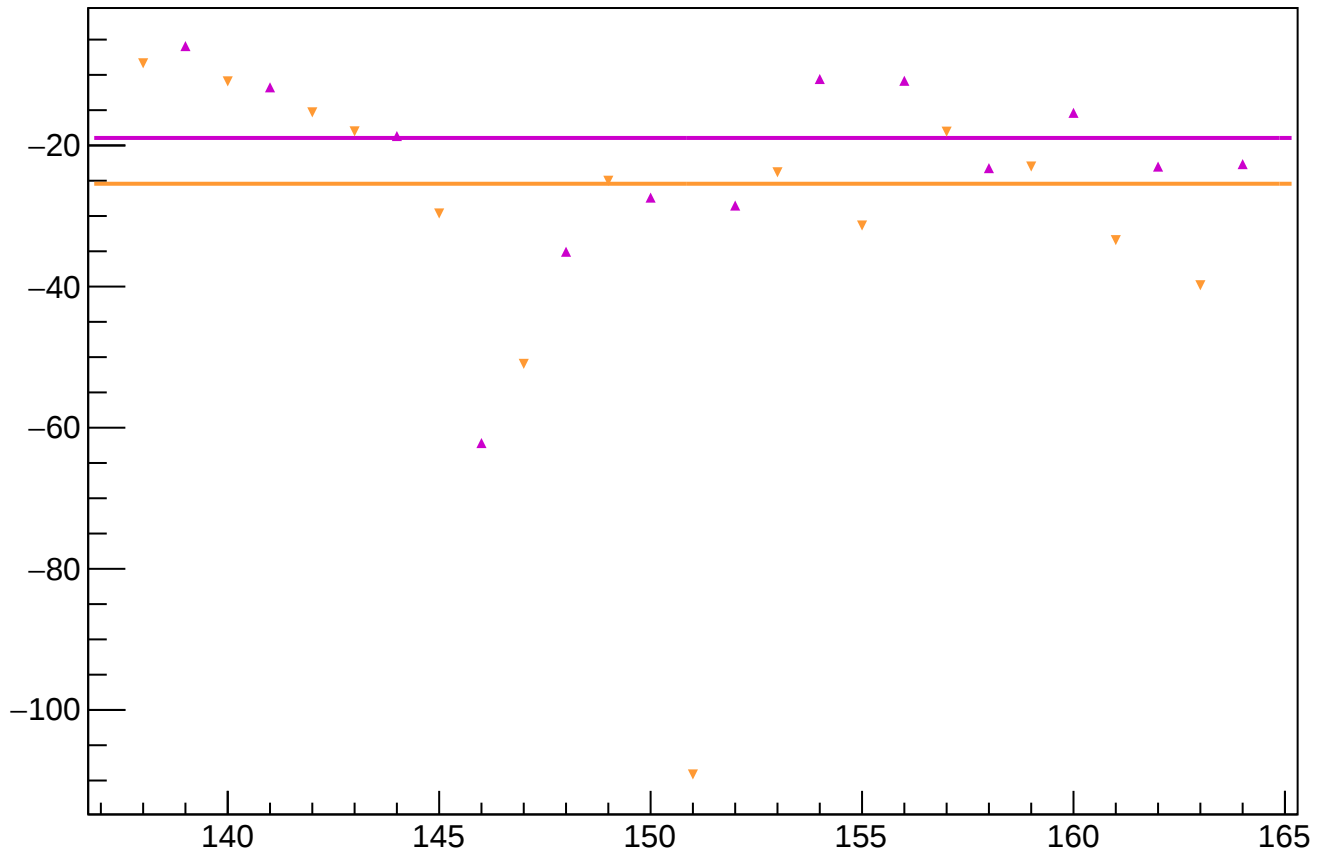
Left In:  $0.064 \pm 0.002$   $\chi^2/\text{NDF}$ : 2173.3/12

+ sign  $0.151 \pm 0.002$   $\chi^2/\text{NDF}$ : 4467.0/30

All:  $0.120 \pm 0.001$   $\chi^2/\text{NDF}$ : 9254.3/61

- sign  $0.099 \pm 0.002$   $\chi^2/\text{NDF}$ : 4440.5/30

# reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug



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

Left Out: -25.429+/-0.069  $\chi^2/\text{NDF}$ : 56324.7/13

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

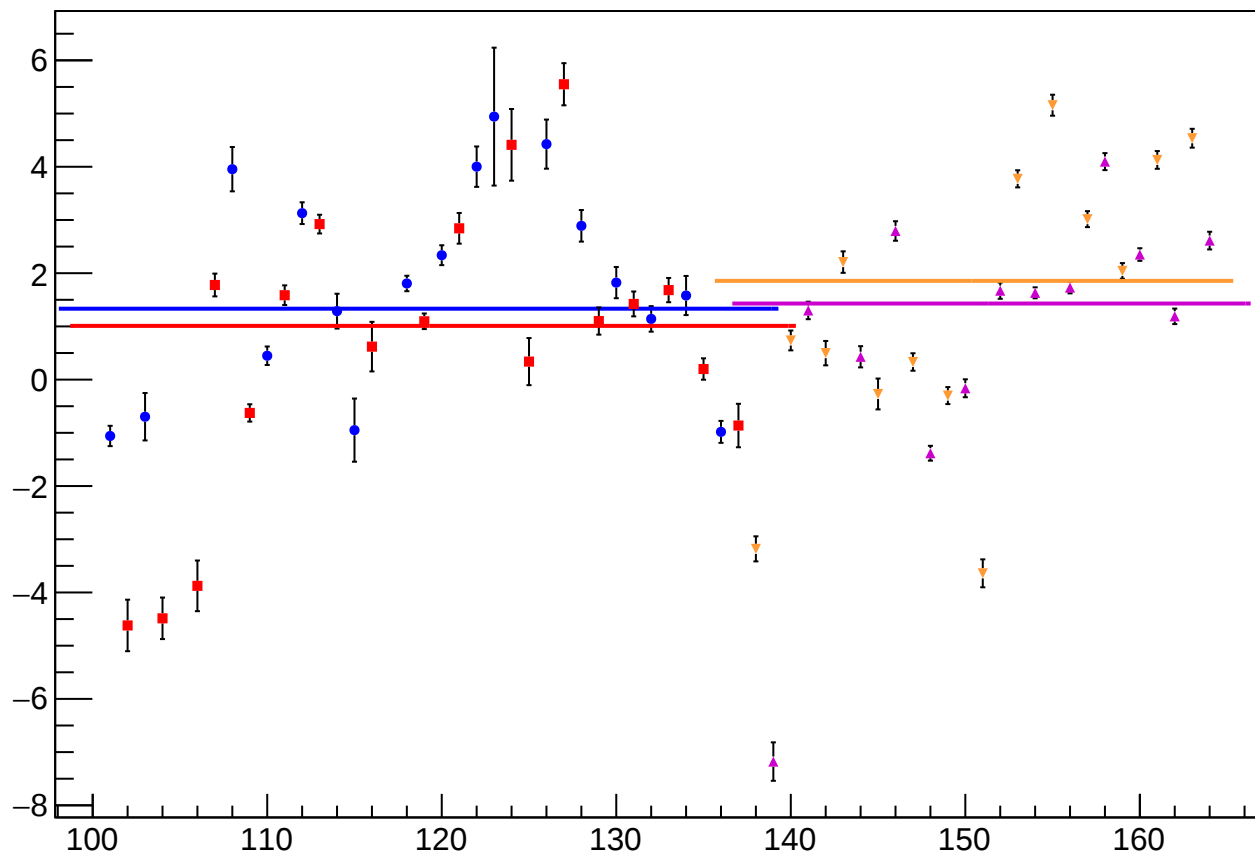
Left In: -18.938+/-0.057  $\chi^2/\text{NDF}$ : 37821.9/12

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

All: -21.606+/-0.044  $\chi^2/\text{NDF}$ : 99422.3/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 1.856 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 2190.4/13

Right Out: 1.010 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 930.3/17

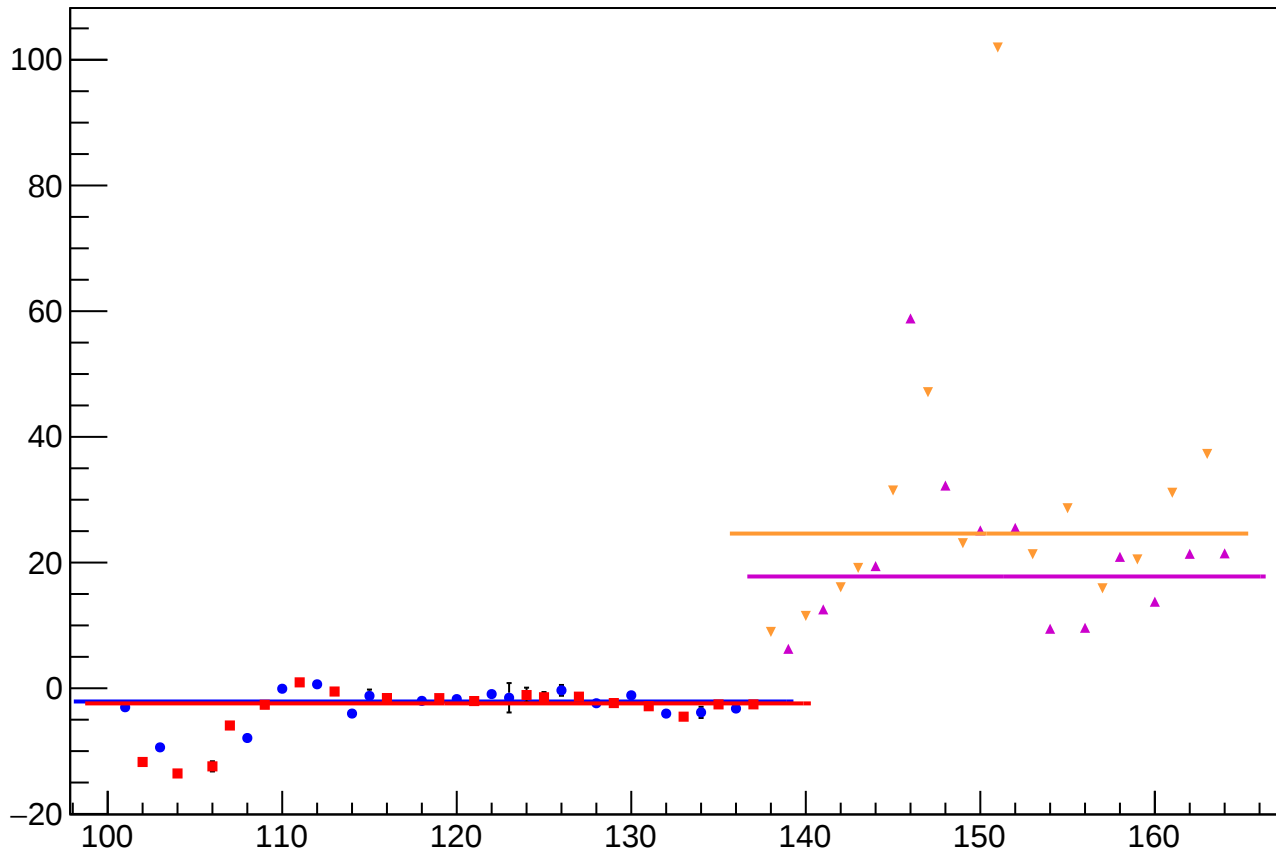
Left In: 1.430 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1553.0/12

+ sign 1.651 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 2869.5/30

All: 1.447 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 5438.1/61

- sign 1.291 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 2518.4/30

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:  $24.615 \pm 0.067$   $\chi^2/\text{NDF}$ : 50417.1/13

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

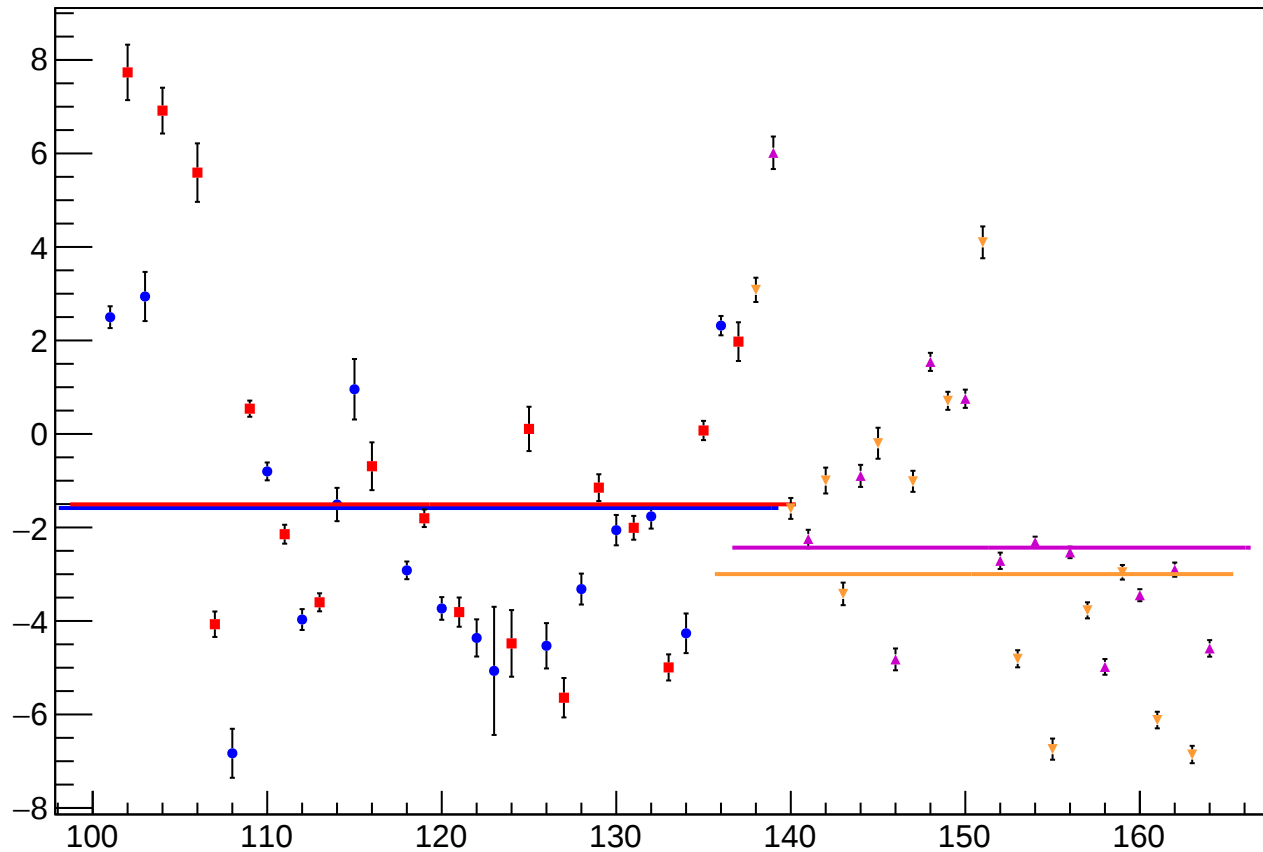
Left In:  $17.787 \pm 0.055$   $\chi^2/\text{NDF}$ : 35707.5/12

+ sign  $17.470 \pm 0.057$   $\chi^2/\text{NDF}$ : 93400.0/30

All:  $14.870 \pm 0.037$   $\chi^2/\text{NDF}$ : 165185.9/61

- sign  $13.039 \pm 0.048$   $\chi^2/\text{NDF}$ : 68280.8/30

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In: -1.584±/0.070  $\chi^2/\text{NDF}$ : 1272.1/16

Left Out: -2.998±/0.056  $\chi^2/\text{NDF}$ : 2728.6/13

Right Out: -1.506±/0.066  $\chi^2/\text{NDF}$ : 1499.8/17

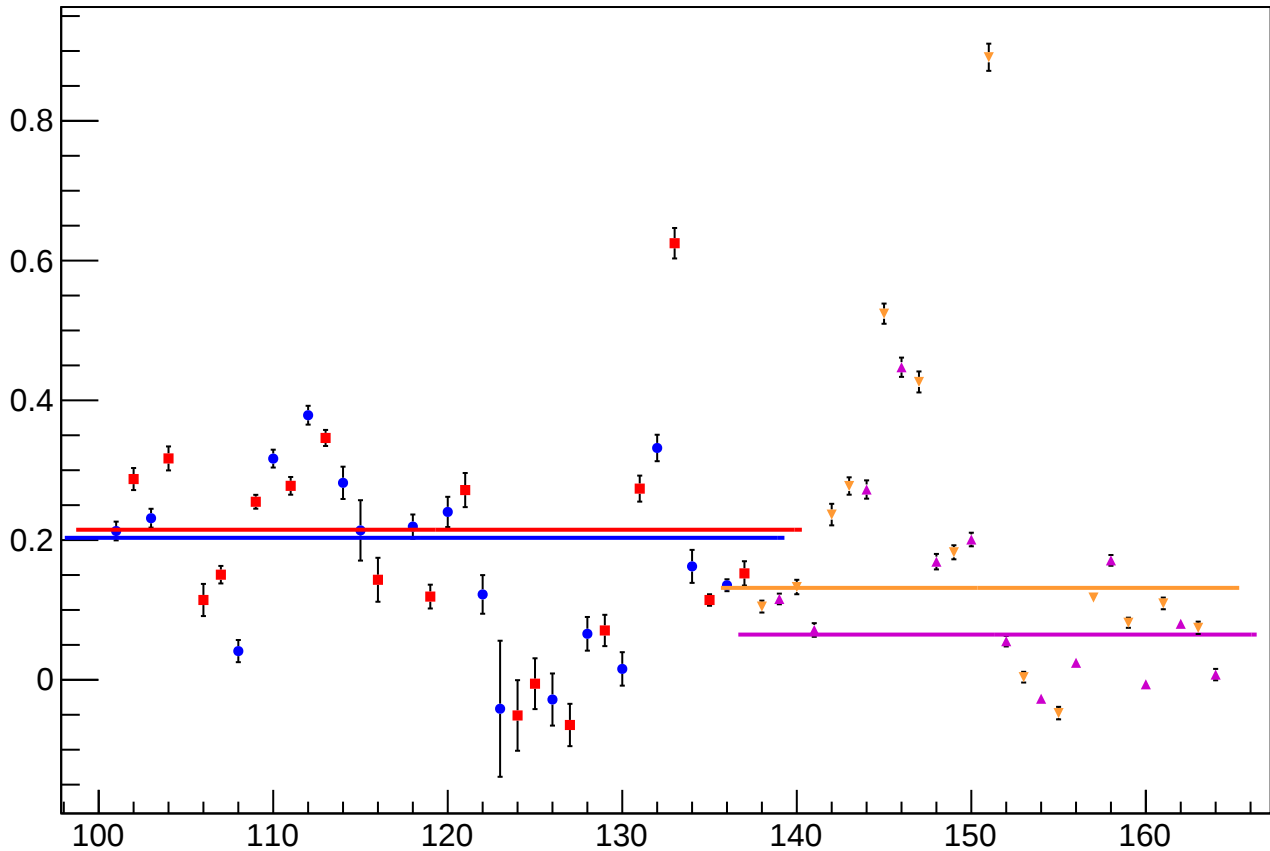
Left In: -2.432±/0.046  $\chi^2/\text{NDF}$ : 1879.7/12

+ sign -2.446±/0.044  $\chi^2/\text{NDF}$ : 4246.2/30

All: -2.260±/0.029  $\chi^2/\text{NDF}$ : 7789.4/61

- sign -2.122±/0.038  $\chi^2/\text{NDF}$ : 3512.2/30

# 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:  $0.132 \pm 0.003$   $\chi^2/\text{NDF}$ : 3645.4/13

Right Out:  $0.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 1033.0/17

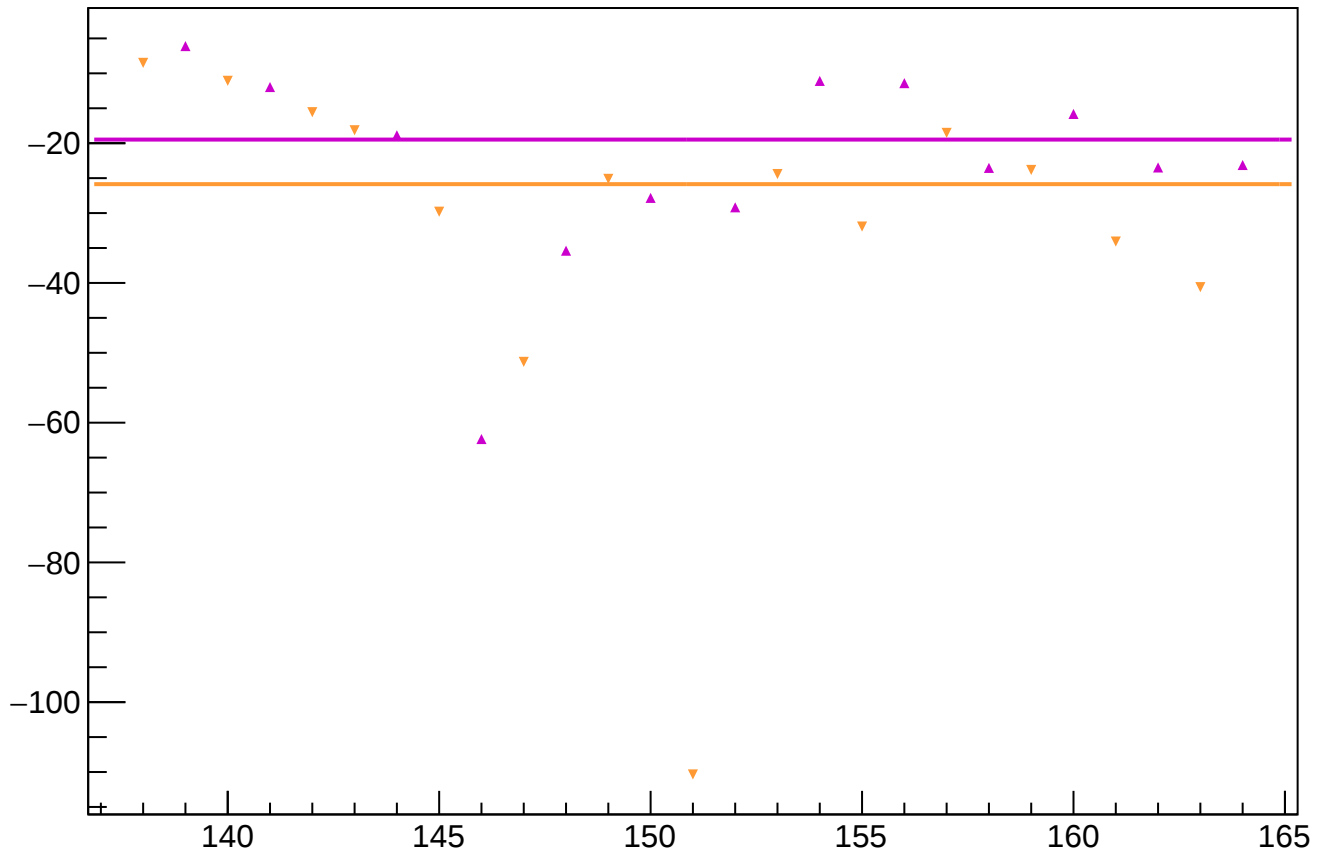
Left In:  $0.065 \pm 0.002$   $\chi^2/\text{NDF}$ : 2158.8/12

+ sign  $0.151 \pm 0.002$   $\chi^2/\text{NDF}$ : 4496.1/30

All:  $0.121 \pm 0.001$   $\chi^2/\text{NDF}$ : 9289.0/61

- sign  $0.100 \pm 0.002$   $\chi^2/\text{NDF}$ : 4454.9/30

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug



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

Left Out: -25.860+/-0.070  $\chi^2/\text{NDF}$ : 56251.8/13

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

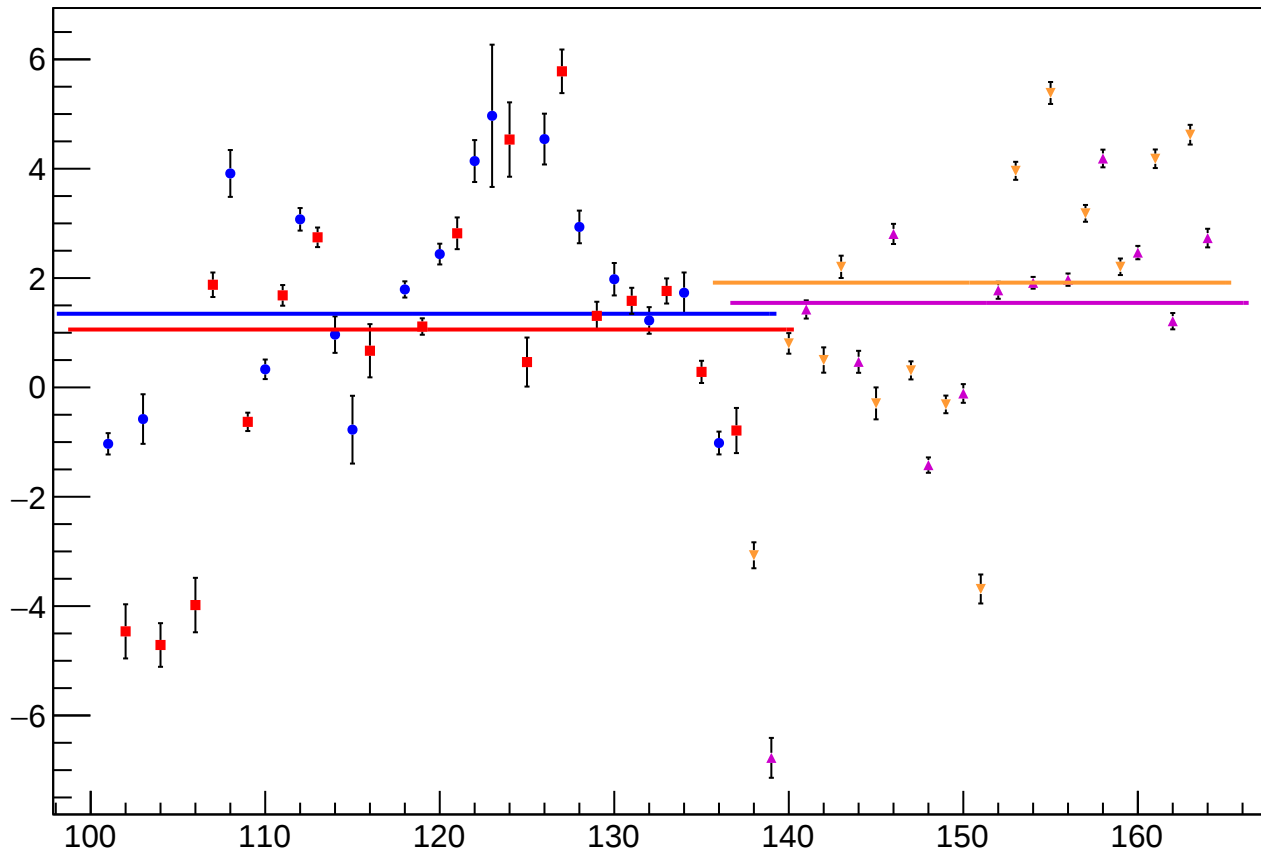
Left In: -19.481+/-0.059  $\chi^2/\text{NDF}$ : 36703.2/12

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

All: -22.127+/-0.045  $\chi^2/\text{NDF}$ : 97856.7/26

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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: 1.916 $\pm$ 0.050     $\chi^2/\text{NDF}$ :2229.6/13

Right Out: 1.059 $\pm$ 0.059     $\chi^2/\text{NDF}$ : 905.3/17

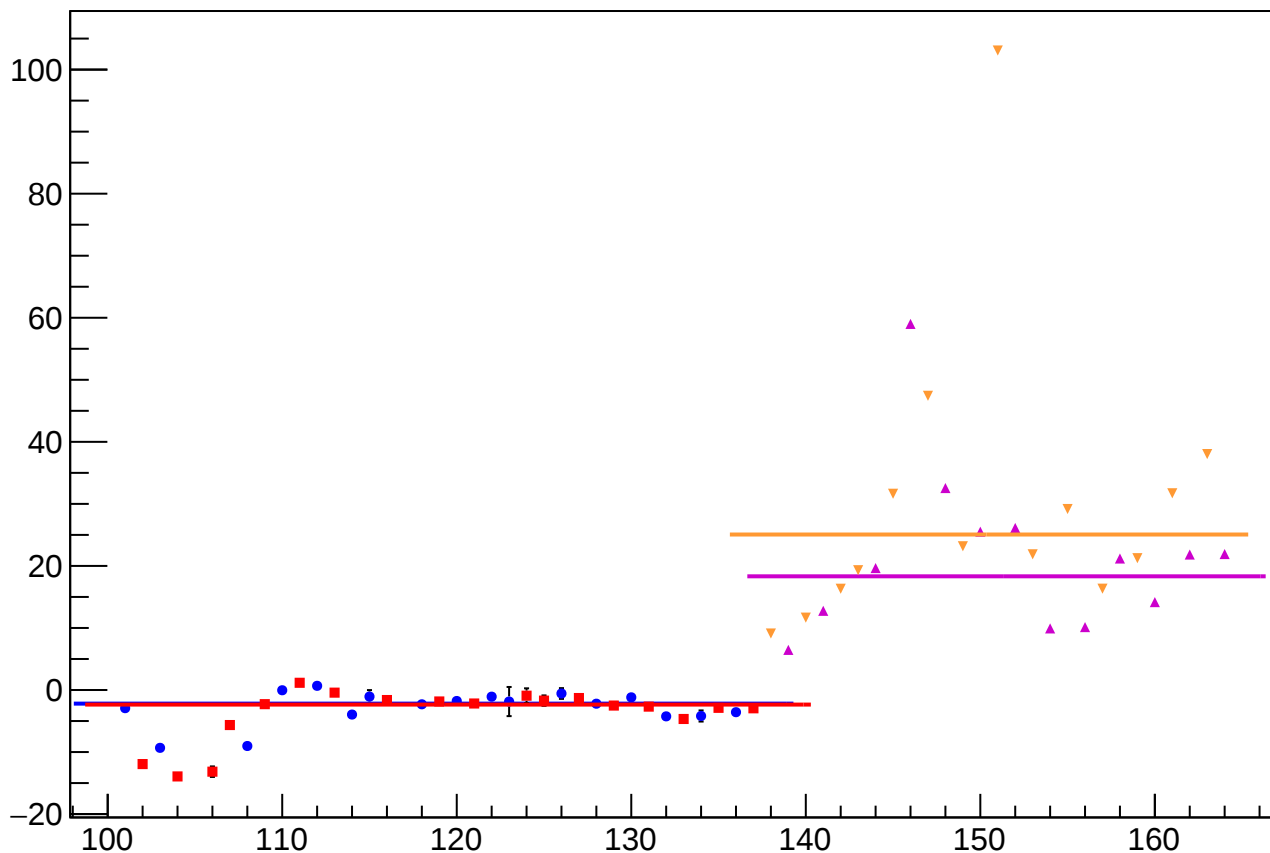
Left In: 1.546 $\pm$ 0.042     $\chi^2/\text{NDF}$ :1539.1/12

+ sign 1.694 $\pm$ 0.039     $\chi^2/\text{NDF}$ : 2910.6/30

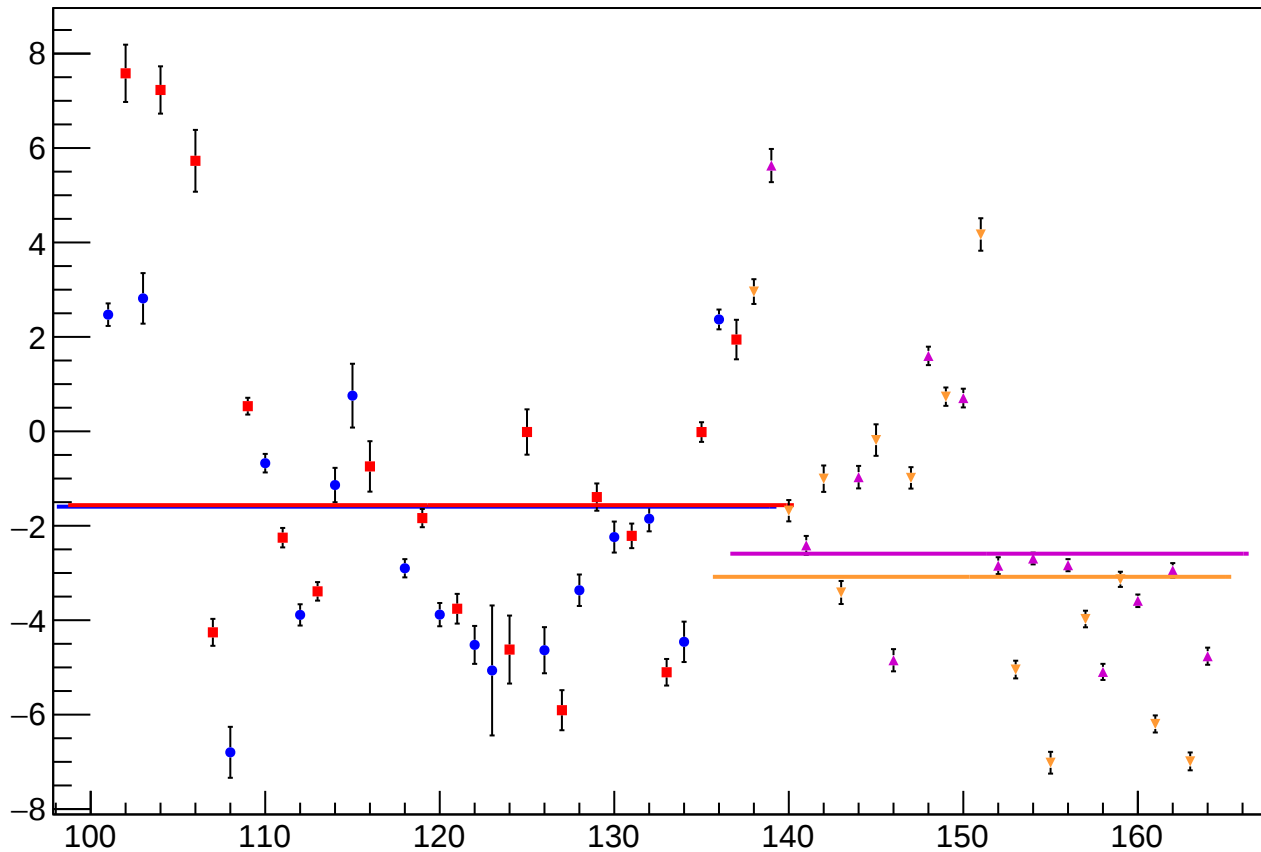
All: 1.519 $\pm$ 0.026     $\chi^2/\text{NDF}$ : 5435.9/61

- sign 1.384 $\pm$ 0.034     $\chi^2/\text{NDF}$ : 2489.5/30

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.595±/0.072  $\chi^2/\text{NDF}$ : 1255.4/16

Left Out: -3.081±/0.057  $\chi^2/\text{NDF}$ : 2766.8/13

Right Out: -1.564±/0.067  $\chi^2/\text{NDF}$ : 1461.9/17

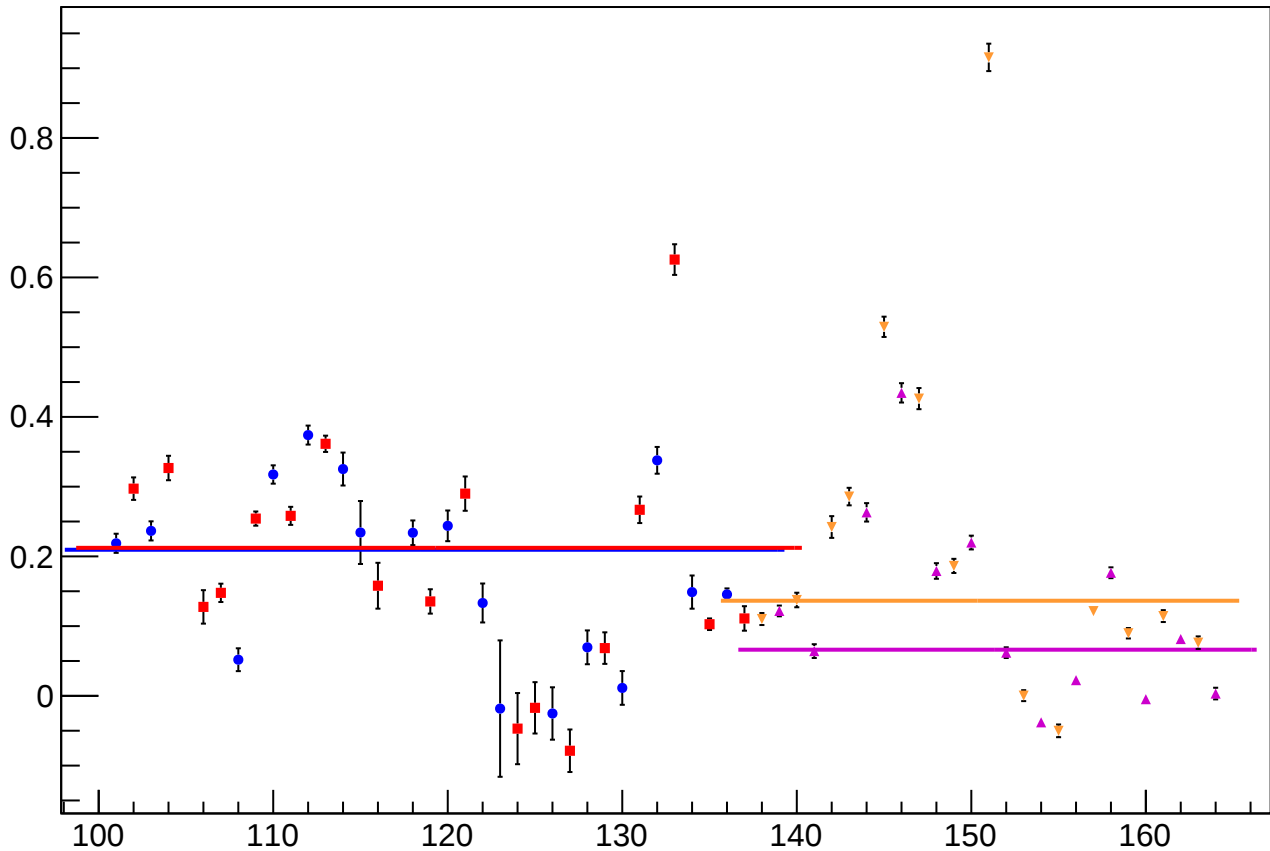
Left In: -2.591±/0.048  $\chi^2/\text{NDF}$ : 1849.3/12

+ sign -2.501±/0.045  $\chi^2/\text{NDF}$ : 4284.0/30

All: -2.355±/0.029  $\chi^2/\text{NDF}$ : 7770.1/61

- sign -2.246±/0.039  $\chi^2/\text{NDF}$ : 3467.6/30

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $0.210 \pm 0.004$   $\chi^2/\text{NDF}: 597.7/16$

Left Out:  $0.136 \pm 0.003$   $\chi^2/\text{NDF}: 3698.6/13$

Right Out:  $0.212 \pm 0.004$   $\chi^2/\text{NDF}: 1096.9/17$

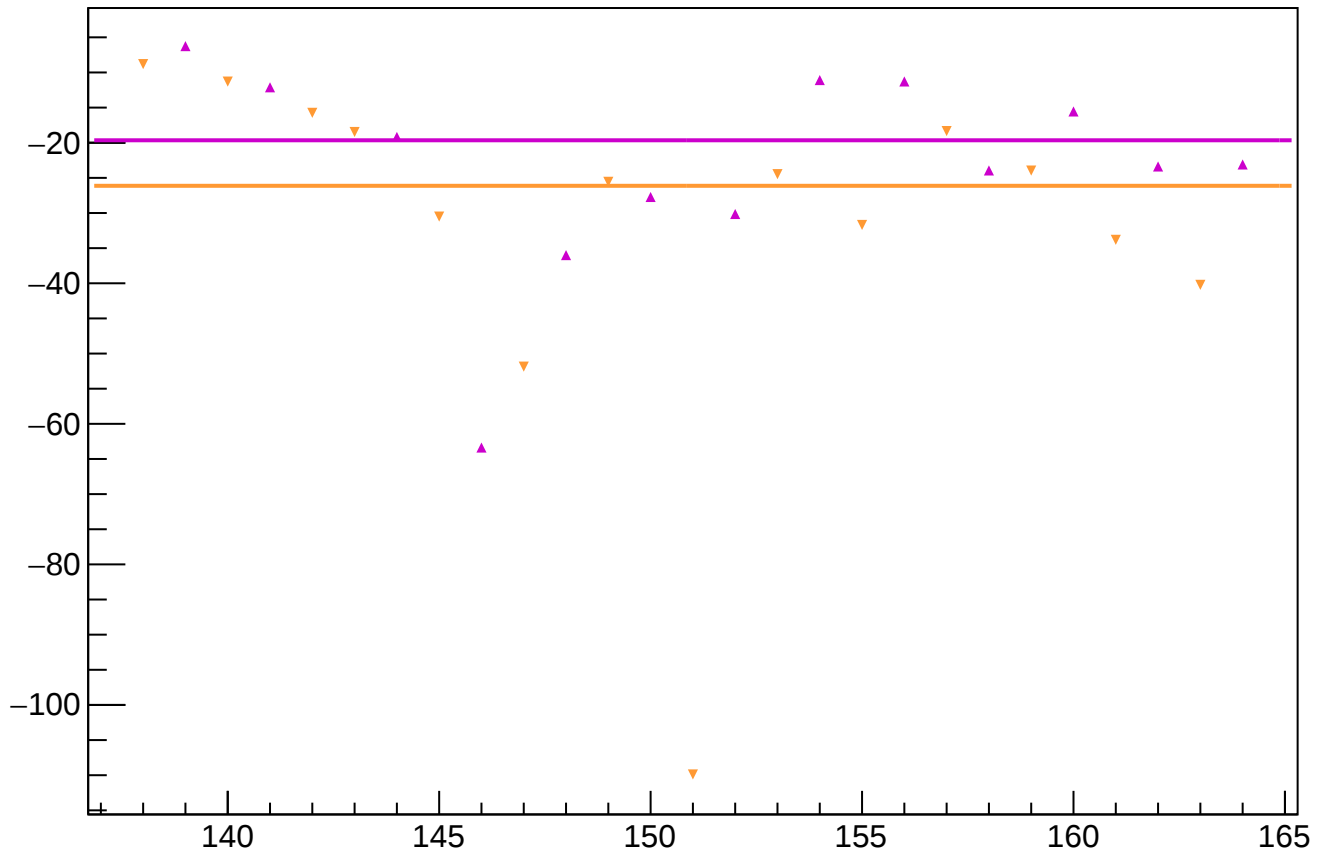
Left In:  $0.066 \pm 0.002$   $\chi^2/\text{NDF}: 2205.8/12$

+ sign  $0.157 \pm 0.002$   $\chi^2/\text{NDF}: 4515.4/30$

All:  $0.123 \pm 0.001$   $\chi^2/\text{NDF}: 9345.6/61$

- sign  $0.101 \pm 0.002$   $\chi^2/\text{NDF}: 4448.2/30$

# reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug



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

Left Out: -26.128 +/- 0.071  $\chi^2/\text{NDF}$ : 54967.6/13

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

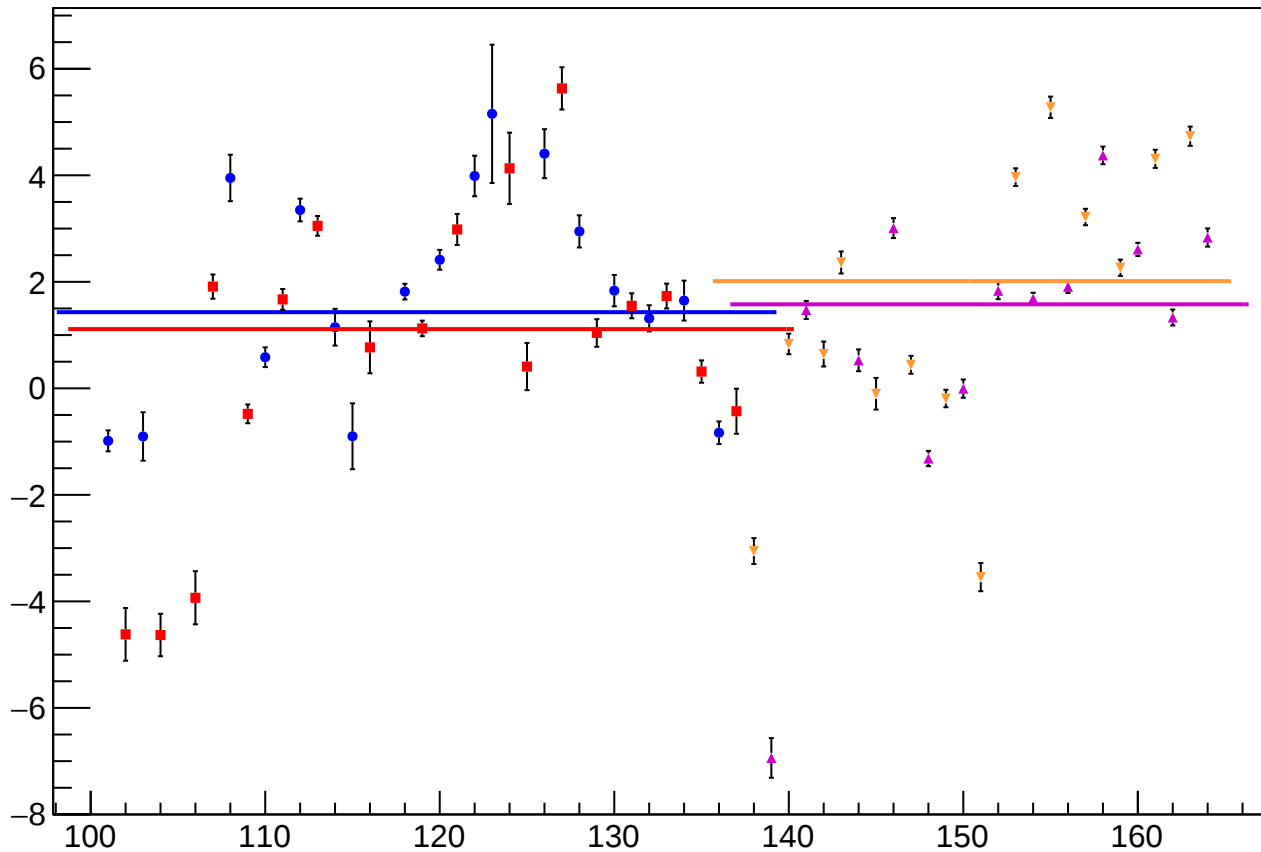
Left In: -19.651 +/- 0.060  $\chi^2/\text{NDF}$ : 36956.9/12

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

All: -22.349 +/- 0.046  $\chi^2/\text{NDF}$ : 96848.0/26

- sign 0.000 +/- 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:  $2.013 \pm 0.050$   $\chi^2/\text{NDF}$ : 2142.4/13

Right Out:  $1.113 \pm 0.060$   $\chi^2/\text{NDF}$ : 887.6/17

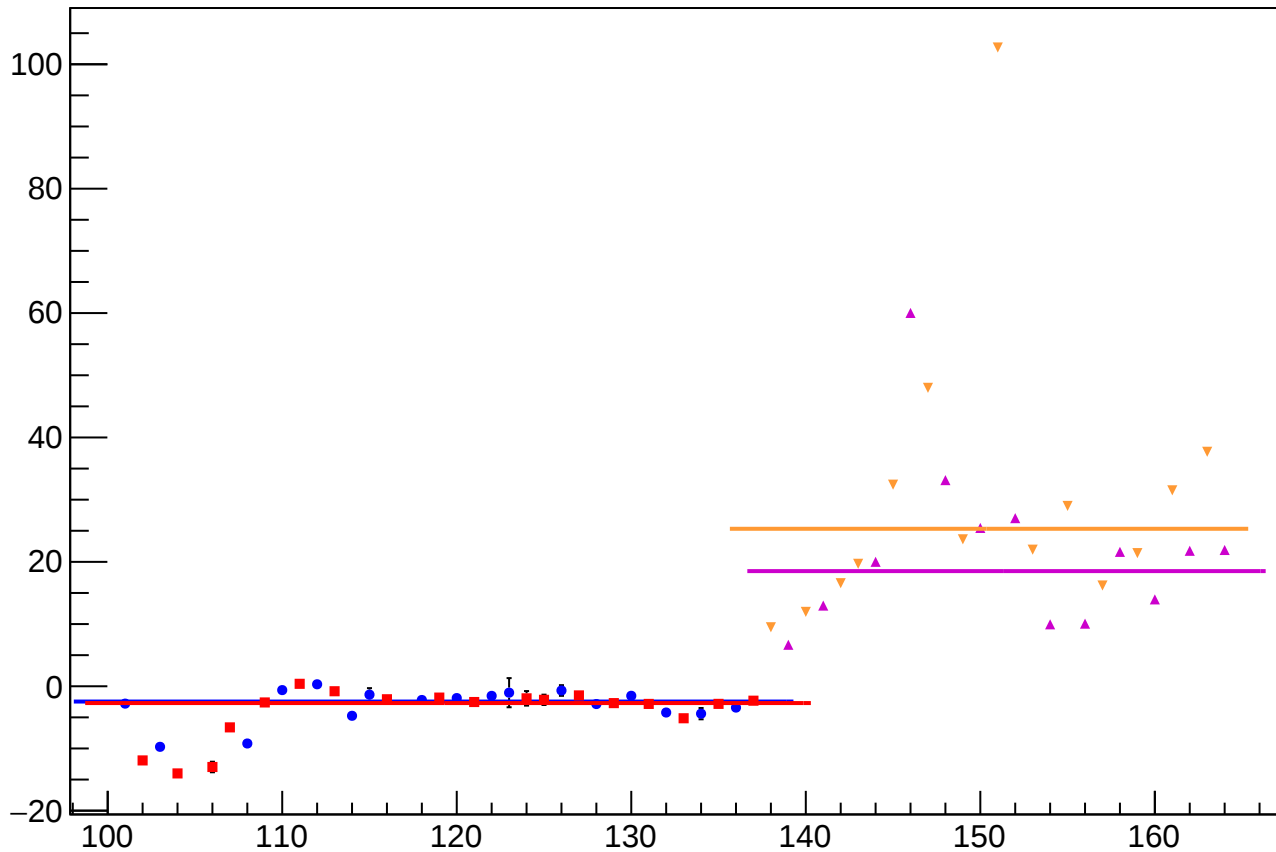
Left In:  $1.577 \pm 0.042$   $\chi^2/\text{NDF}$ : 1523.9/12

+ sign  $1.785 \pm 0.039$   $\chi^2/\text{NDF}$ : 2792.9/30

All:  $1.581 \pm 0.026$   $\chi^2/\text{NDF}$ : 5292.3/61

- sign  $1.423 \pm 0.035$   $\chi^2/\text{NDF}$ : 2451.5/30

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:  $25.320 \pm 0.069$   $\chi^2/\text{NDF}$ : 49196.5/13

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

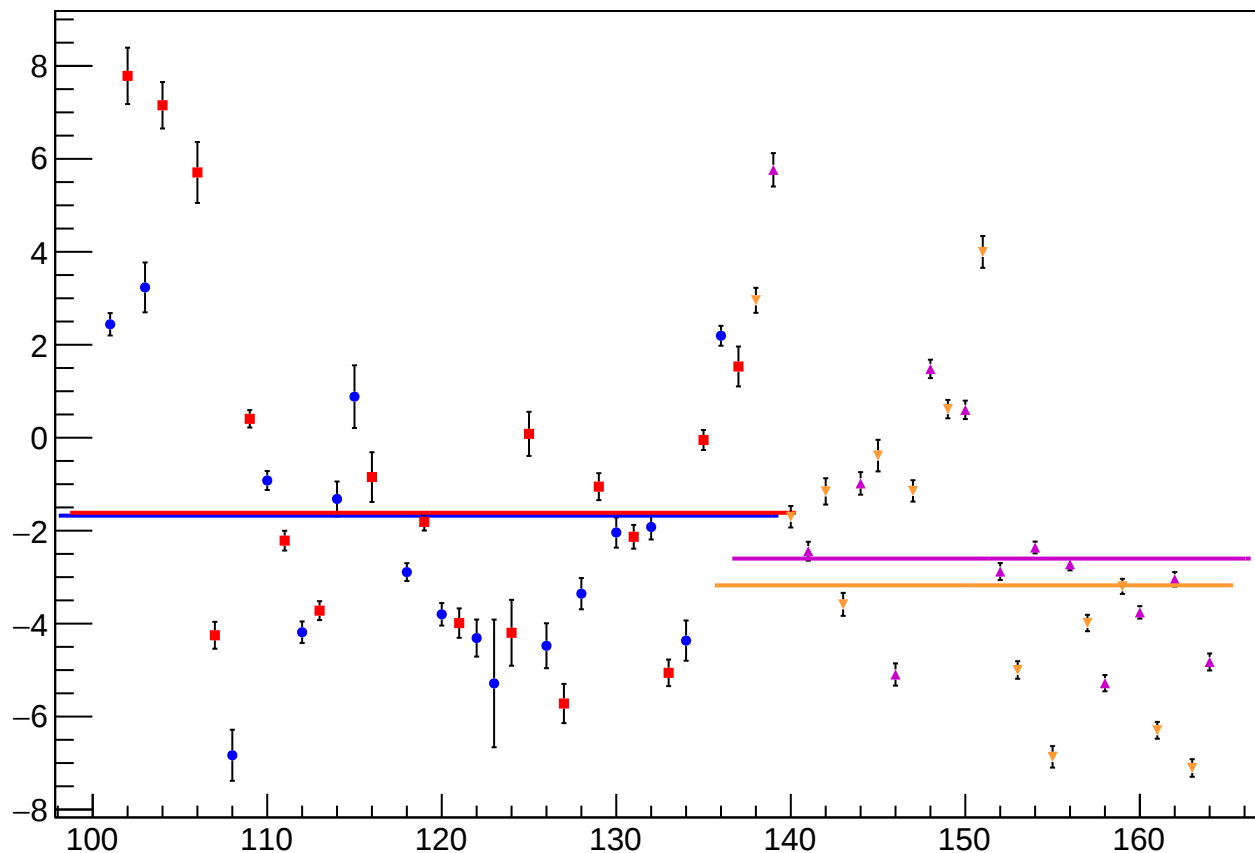
Left In:  $18.515 \pm 0.057$   $\chi^2/\text{NDF}$ : 34787.4/12

+ sign  $17.948 \pm 0.059$   $\chi^2/\text{NDF}$ : 92798.9/30

All:  $15.392 \pm 0.038$   $\chi^2/\text{NDF}$ : 163786.0/61

- sign  $13.550 \pm 0.050$   $\chi^2/\text{NDF}$ : 67760.6/30

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In: -1.677+/-0.072  $\chi^2/\text{NDF}$ : 1204.7/16

Left Out: -3.176+/-0.058  $\chi^2/\text{NDF}$ : 2660.8/13

Right Out: -1.615+/-0.068  $\chi^2/\text{NDF}$ : 1427.3/17

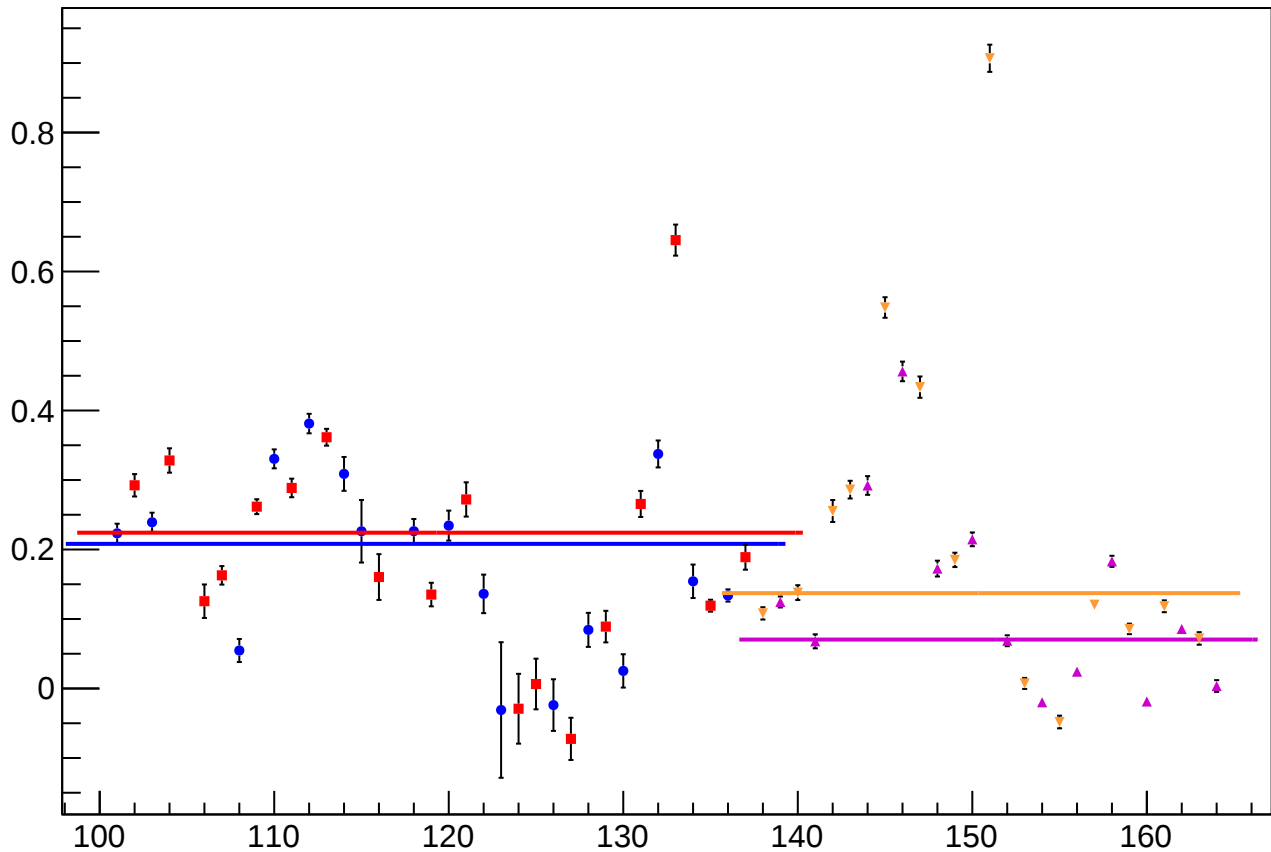
Left In: -2.601+/-0.048  $\chi^2/\text{NDF}$ : 1851.6/12

+ sign -2.591+/-0.045  $\chi^2/\text{NDF}$ : 4126.9/30

All: -2.408+/-0.030  $\chi^2/\text{NDF}$ : 7574.3/61

- sign -2.269+/-0.039  $\chi^2/\text{NDF}$ : 3418.6/30

# 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:  $0.137 \pm 0.003$   $\chi^2/\text{NDF}$ : 3705.3/13

Right Out:  $0.224 \pm 0.004$   $\chi^2/\text{NDF}$ : 995.8/17

Left In:  $0.070 \pm 0.002$   $\chi^2/\text{NDF}$ : 2210.7/12

+ sign  $0.157 \pm 0.002$   $\chi^2/\text{NDF}$ : 4506.4/30

All:  $0.127 \pm 0.001$   $\chi^2/\text{NDF}$ : 9235.0/61

- sign  $0.106 \pm 0.002$   $\chi^2/\text{NDF}$ : 4428.1/30