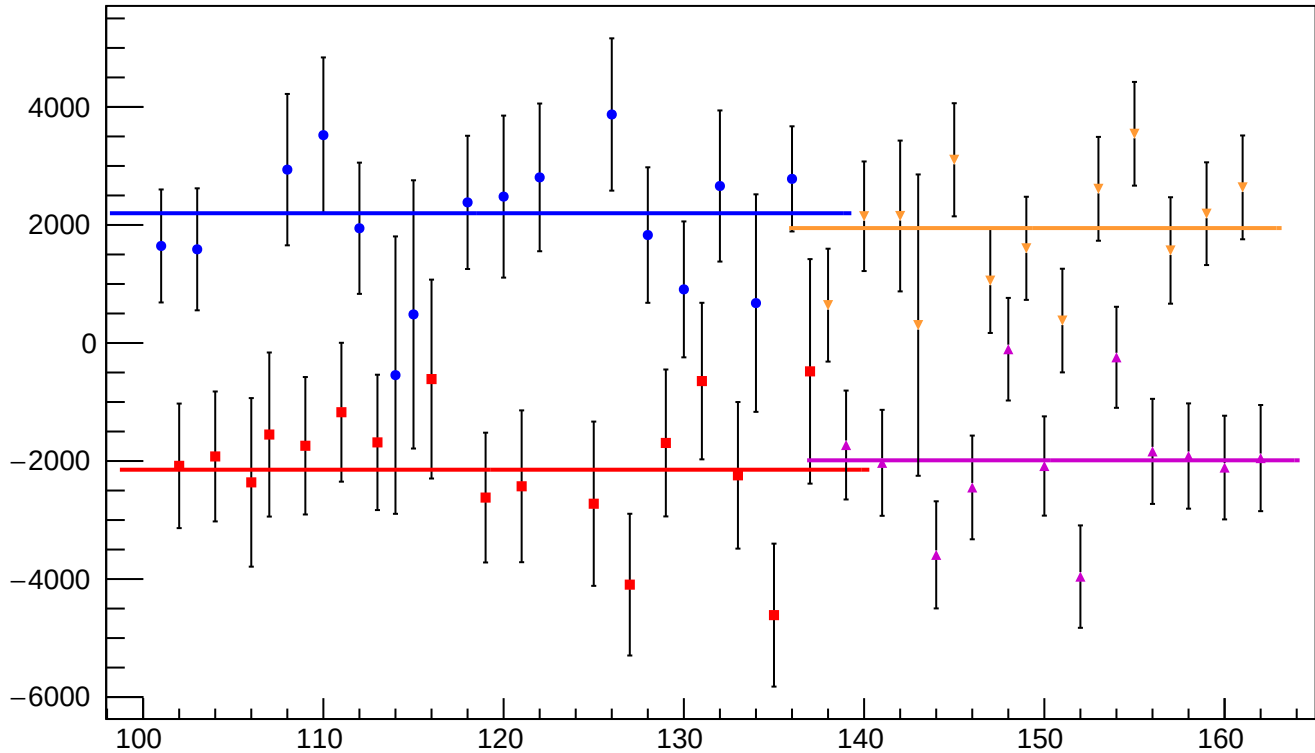


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2198.880 $\pm$ 306.767

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

Left Out: 1947.307 $\pm$ 263.394

$\chi^2/\text{NDF}$ : 12.9/12

Right Out: -2147.149 $\pm$ 304.804

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

Left In: -1987.969 $\pm$ 254.795

$\chi^2/\text{NDF}$ : 17.5/11

+ sign 2054.066 $\pm$ 199.838

$\chi^2/\text{NDF}$ : 21.9/28

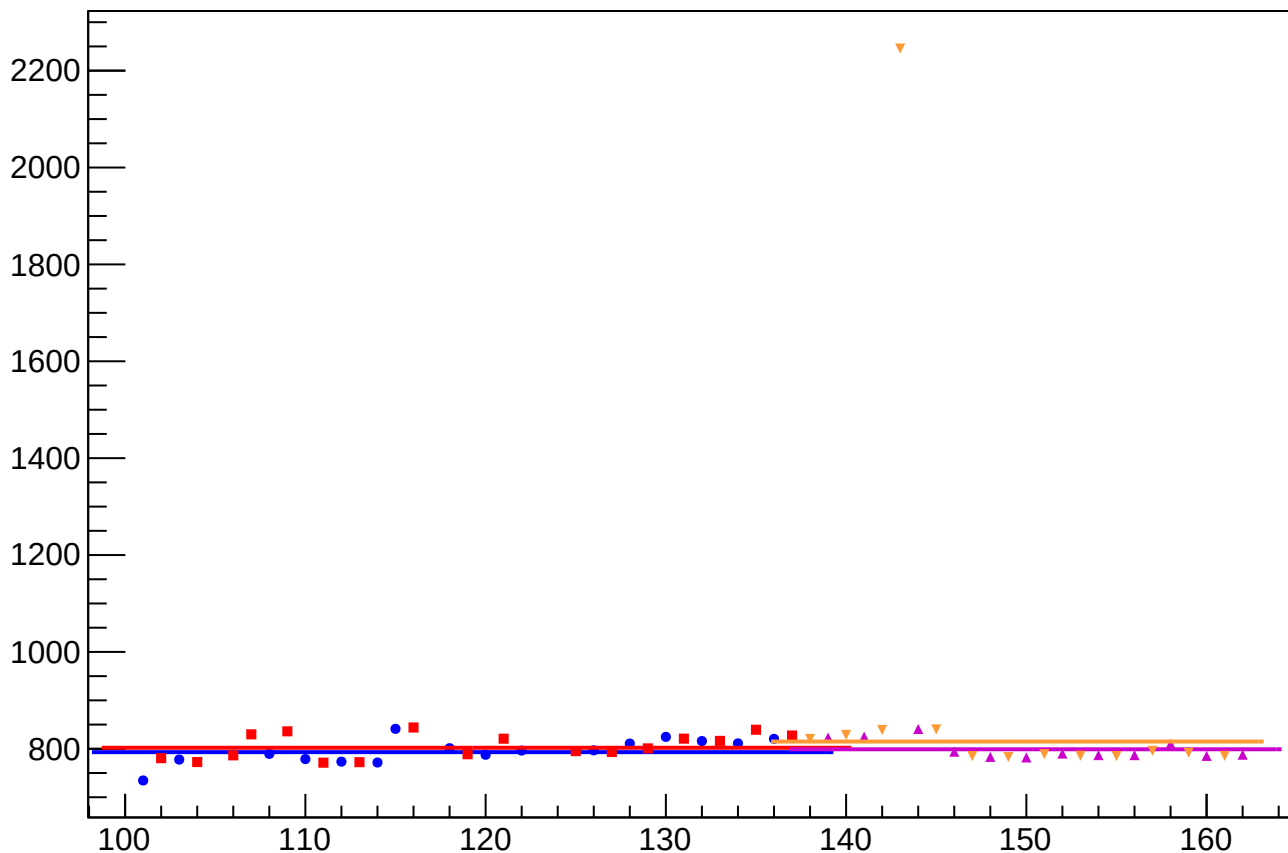
All: -44.874 $\pm$ 139.744

$\chi^2/\text{NDF}$ : 266.9/57

- sign -2053.447 $\pm$ 195.489

$\chi^2/\text{NDF}$ : 29.1/28

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



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

Left Out: 814.986+/-0.186  $\chi^2/\text{NDF}$ : 646463.2/12

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

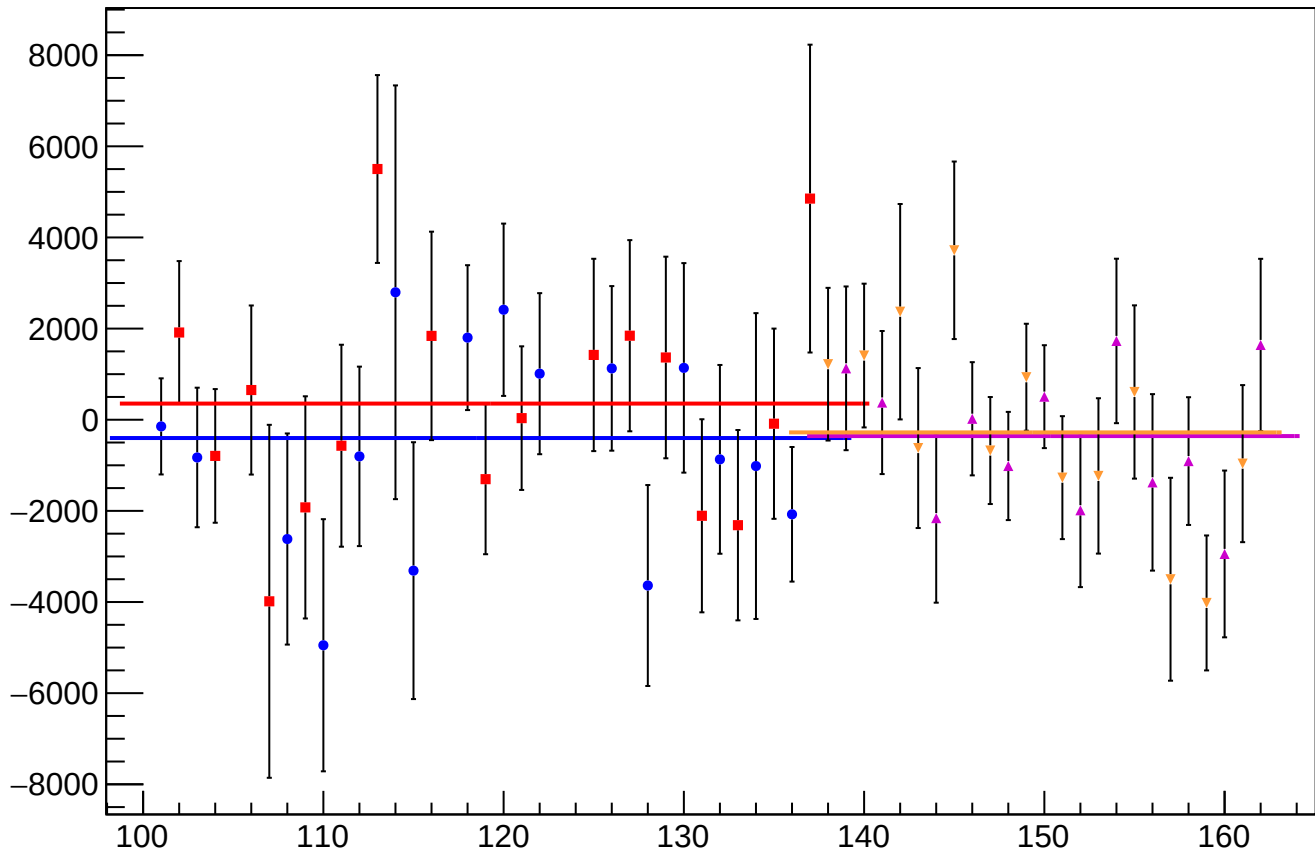
Left In: 799.022+/-0.180  $\chi^2/\text{NDF}$ : 10918.6/11

+ sign 805.695+/-0.141  $\chi^2/\text{NDF}$ : 667031.1/28

All: 802.942+/-0.099  $\chi^2/\text{NDF}$ : 691539.6/57

- sign 800.308+/-0.138  $\chi^2/\text{NDF}$ : 23765.9/28

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



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

Left Out:  $-277.734 \pm 440.980$   $\chi^2/\text{NDF}$ : 18.3/12

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

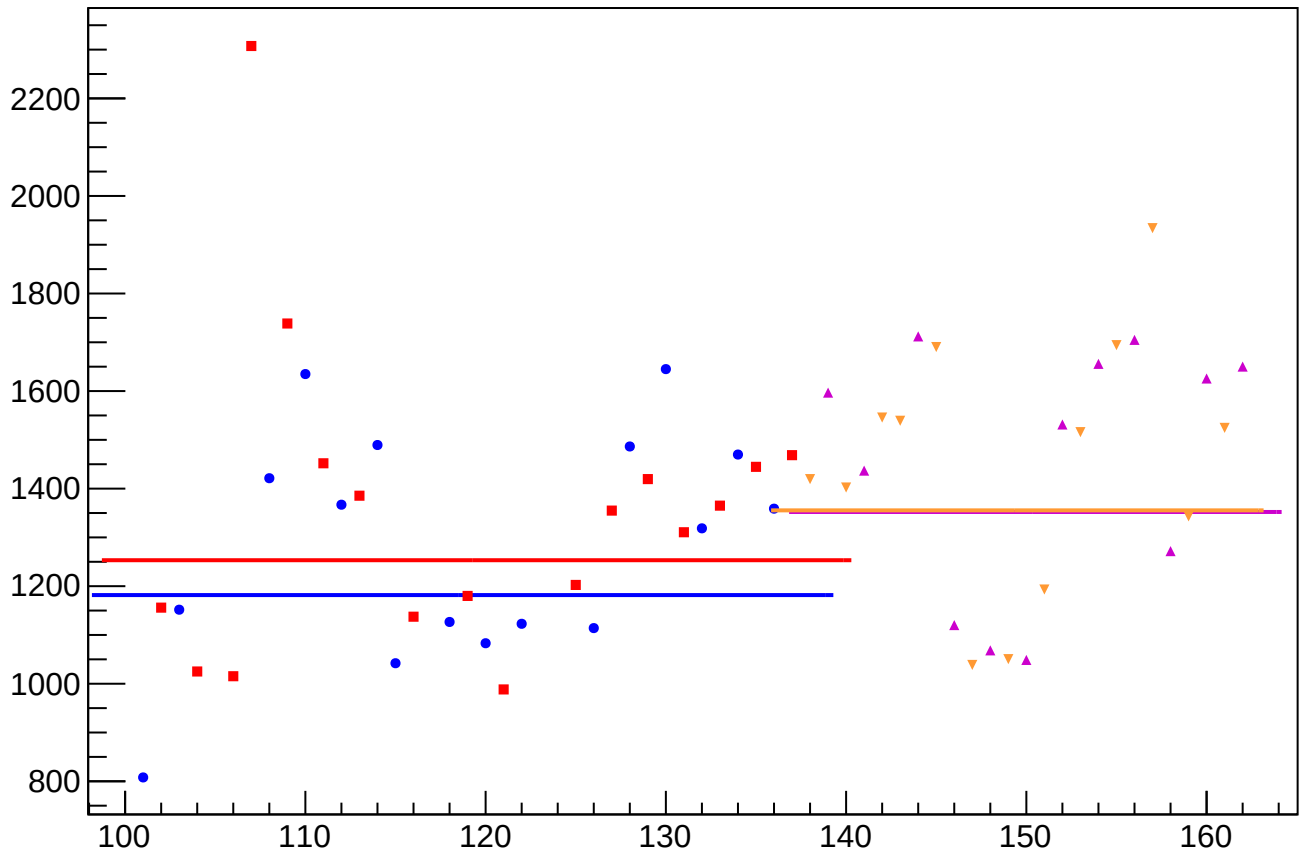
Left In:  $-358.445 \pm 440.180$   $\chi^2/\text{NDF}$ : 8.6/11

+ sign  $-335.836 \pm 321.163$   $\chi^2/\text{NDF}$ : 33.2/28

All:  $-189.114 \pm 228.930$   $\chi^2/\text{NDF}$ : 60.9/57

- sign  $-37.556 \pm 326.412$   $\chi^2/\text{NDF}$ : 27.2/28

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



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

Left Out: 1355.421 $\pm$ 0.312  $\chi^2$ /NDF: 644107.6/12

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

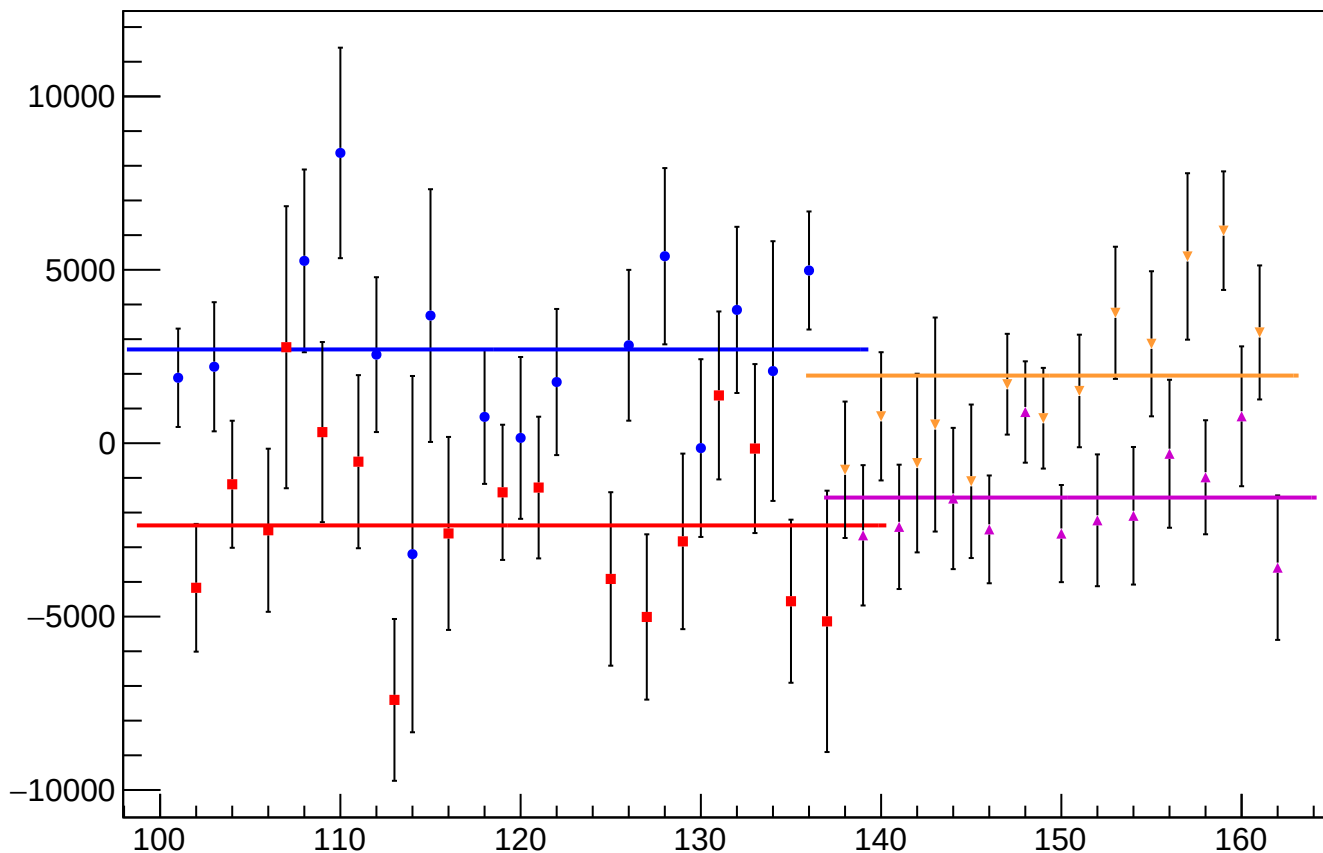
Left In: 1352.132 $\pm$ 0.311  $\chi^2$ /NDF: 693084.2/11

+ sign 1273.875 $\pm$ 0.227  $\chi^2$ /NDF: 1333240.7/28

All: 1290.469 $\pm$ 0.162  $\chi^2$ /NDF: 2538275.2/57

- sign 1307.611 $\pm$ 0.231  $\chi^2$ /NDF: 1194179.3/28

# asym\_us\_avg\_mean vs Slug



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

Left Out: 1950.294 $\pm$ 525.154  $\chi^2$ /NDF: 15.7/12

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

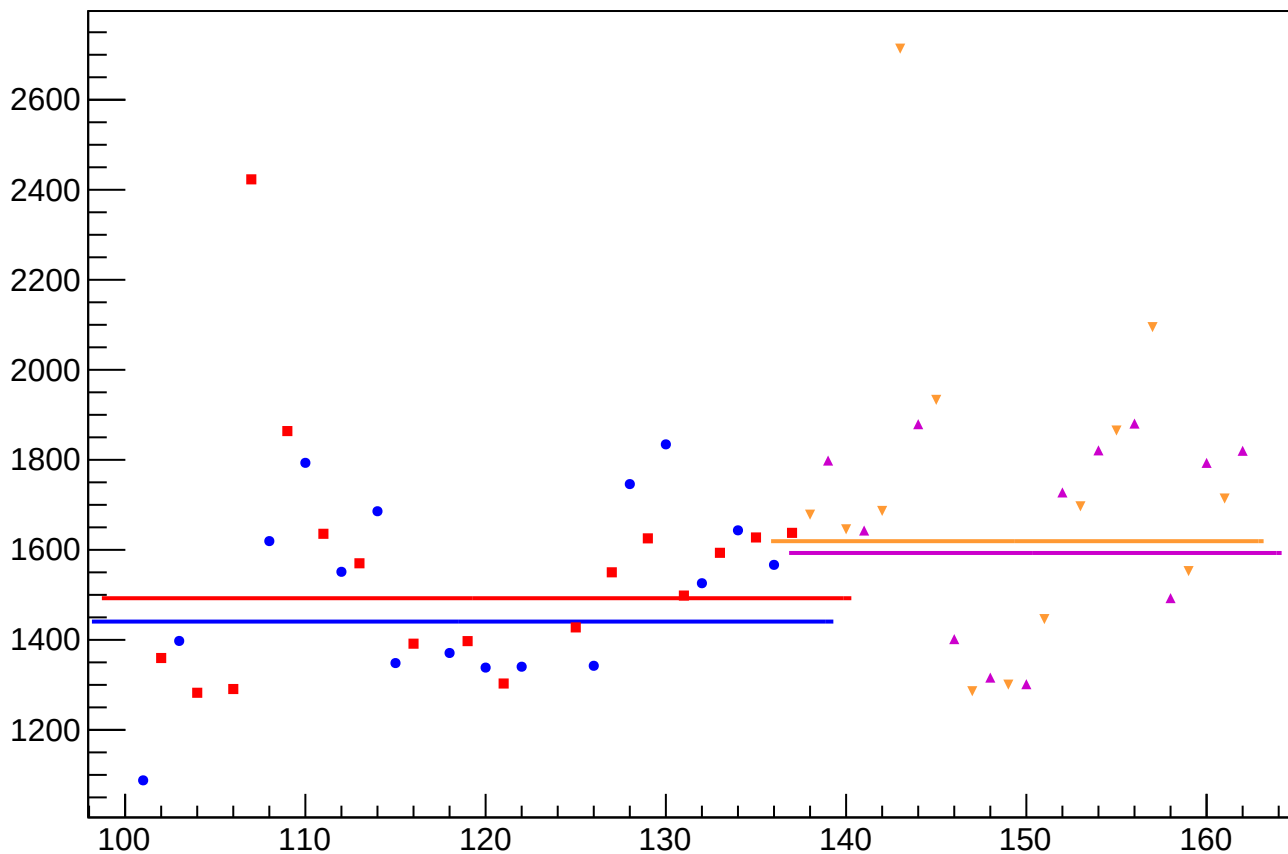
Left In: -1567.400 $\pm$ 513.996  $\chi^2$ /NDF: 7.2/11

+ sign 2299.819 $\pm$ 384.500  $\chi^2$ /NDF: 29.7/28

All: 177.719 $\pm$ 271.265  $\chi^2$ /NDF: 114.7/57

- sign -1925.203 $\pm$ 382.758  $\chi^2$ /NDF: 24.3/28

# asym\_us\_avg\_rms vs Slug



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

Left Out: 1619.266+/-0.371  $\chi^2$ /NDF: 636982.4/12

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

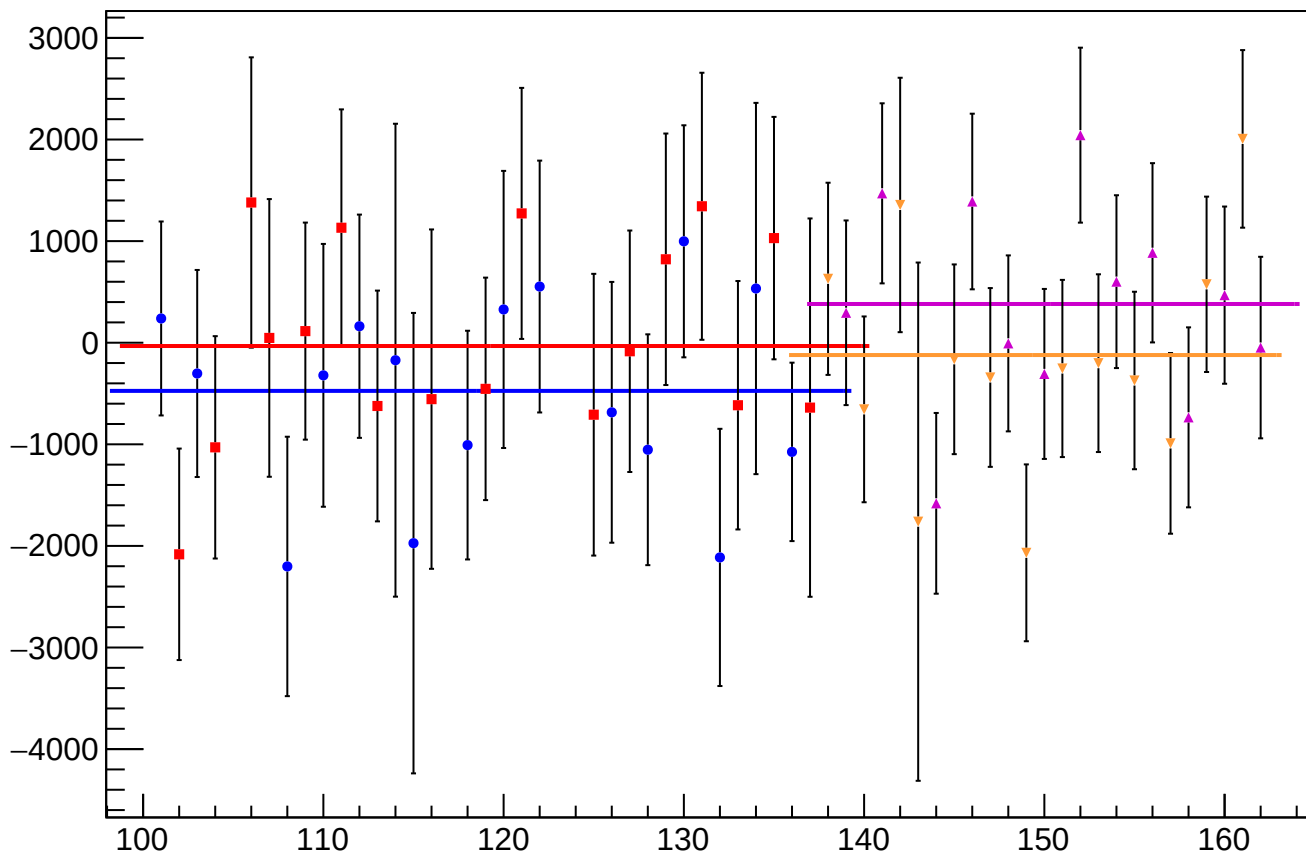
Left In: 1593.073+/-0.363  $\chi^2$ /NDF: 374035.8/11

+ sign 1536.402+/-0.272  $\chi^2$ /NDF: 1026580.3/28

All: 1542.370+/-0.192  $\chi^2$ /NDF: 1687172.0/57

- sign 1548.285+/-0.271  $\chi^2$ /NDF: 659632.2/28

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



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

Left Out:  $-121.342 \pm 260.700$   $\chi^2/\text{NDF}$ : 15.5/12

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

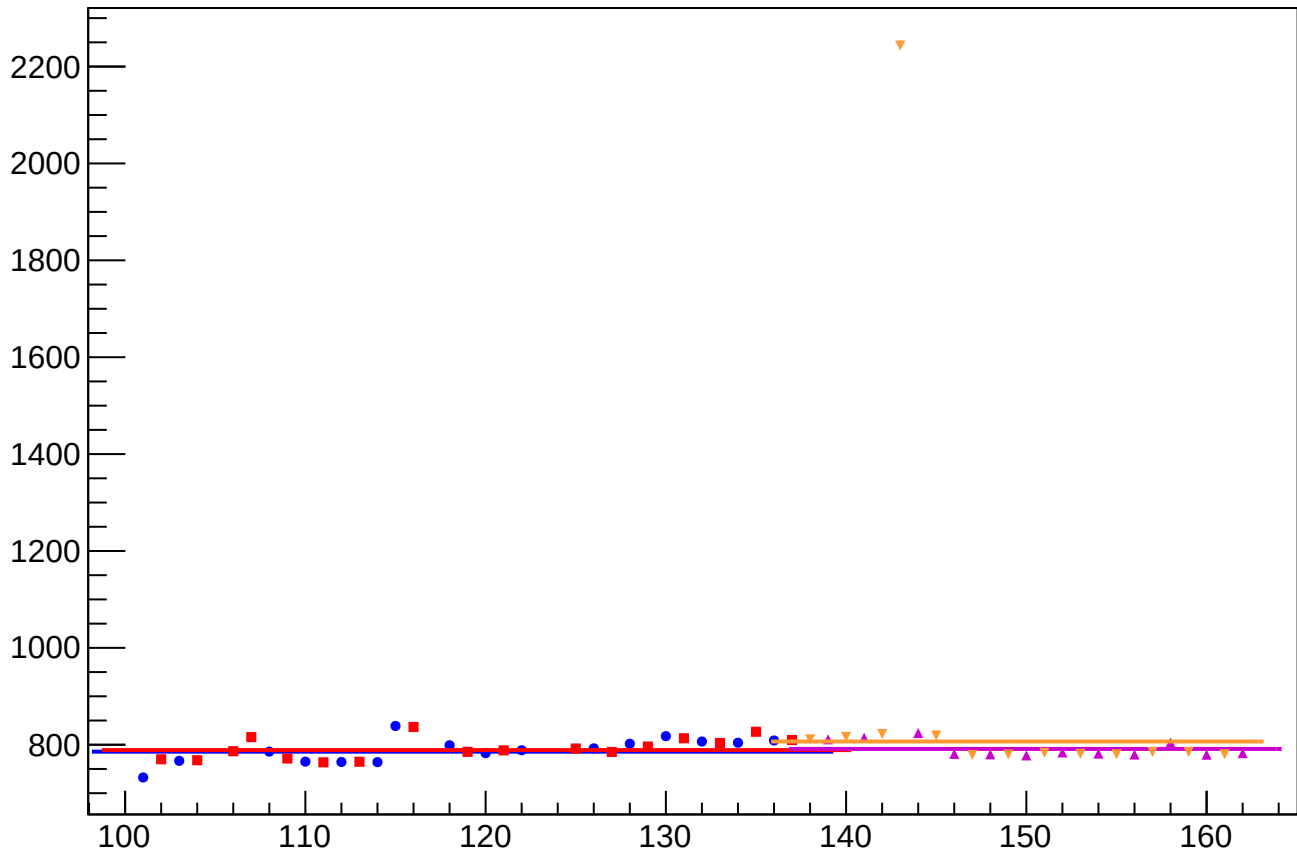
Left In:  $381.137 \pm 252.320$   $\chi^2/\text{NDF}$ : 14.6/11

+ sign  $-270.894 \pm 197.873$   $\chi^2/\text{NDF}$ : 25.1/28

All:  $-24.695 \pm 138.161$   $\chi^2/\text{NDF}$ : 55.1/57

- sign  $209.521 \pm 192.997$   $\chi^2/\text{NDF}$ : 27.0/28

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



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

Left Out: 806.727 $\pm$ 0.184  $\chi^2$ /NDF: 648630.4/12

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

Left In: 791.380 $\pm$ 0.178  $\chi^2$ /NDF: 7867.5/11

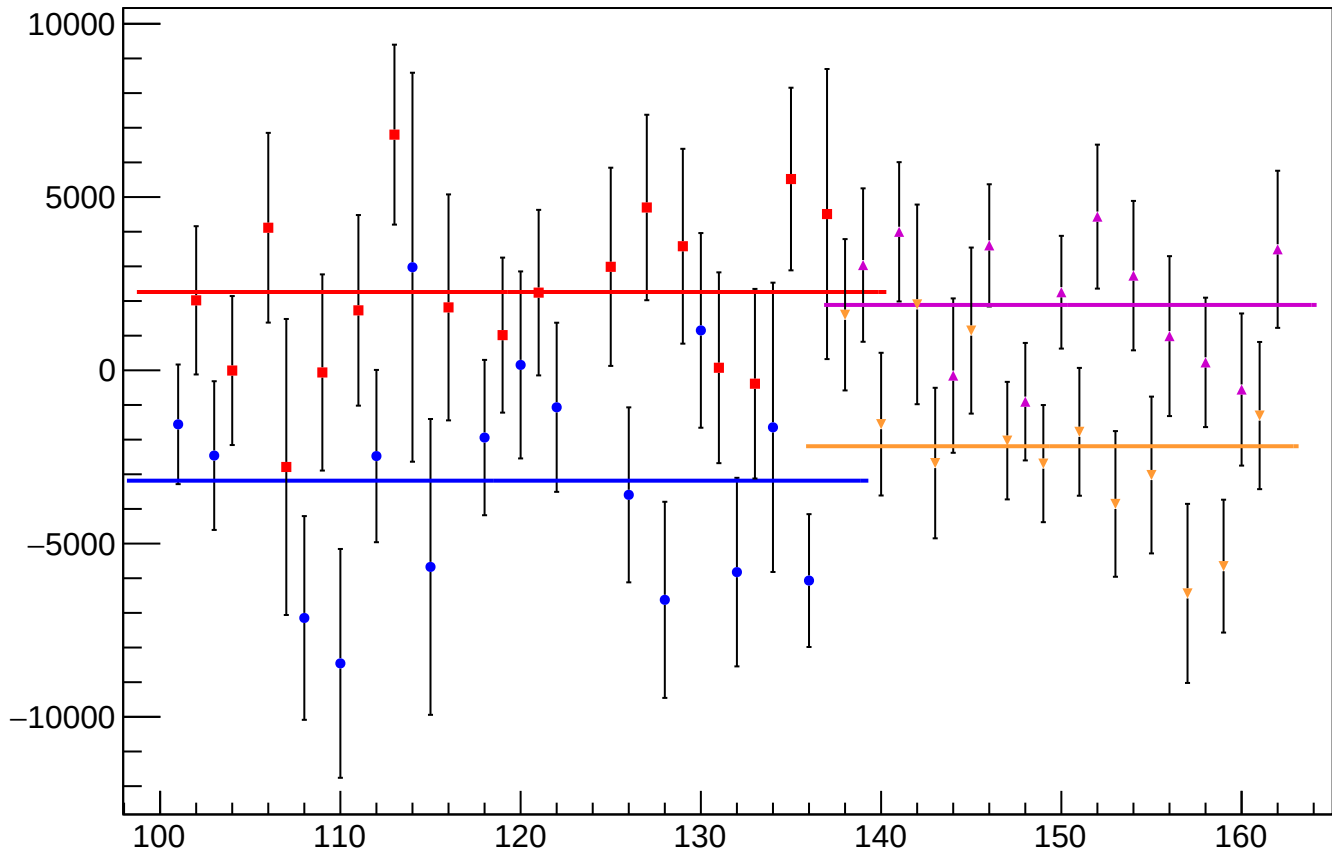
+ sign 797.833 $\pm$ 0.140  $\chi^2$ /NDF: 668043.1/28

All: 794.007 $\pm$ 0.098  $\chi^2$ /NDF: 686971.9/57

- sign 790.368 $\pm$ 0.136  $\chi^2$ /NDF: 17470.2/28



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



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

Left Out:  $-2190.606 \pm 576.494$   $\chi^2/\text{NDF}: 14.2/12$

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

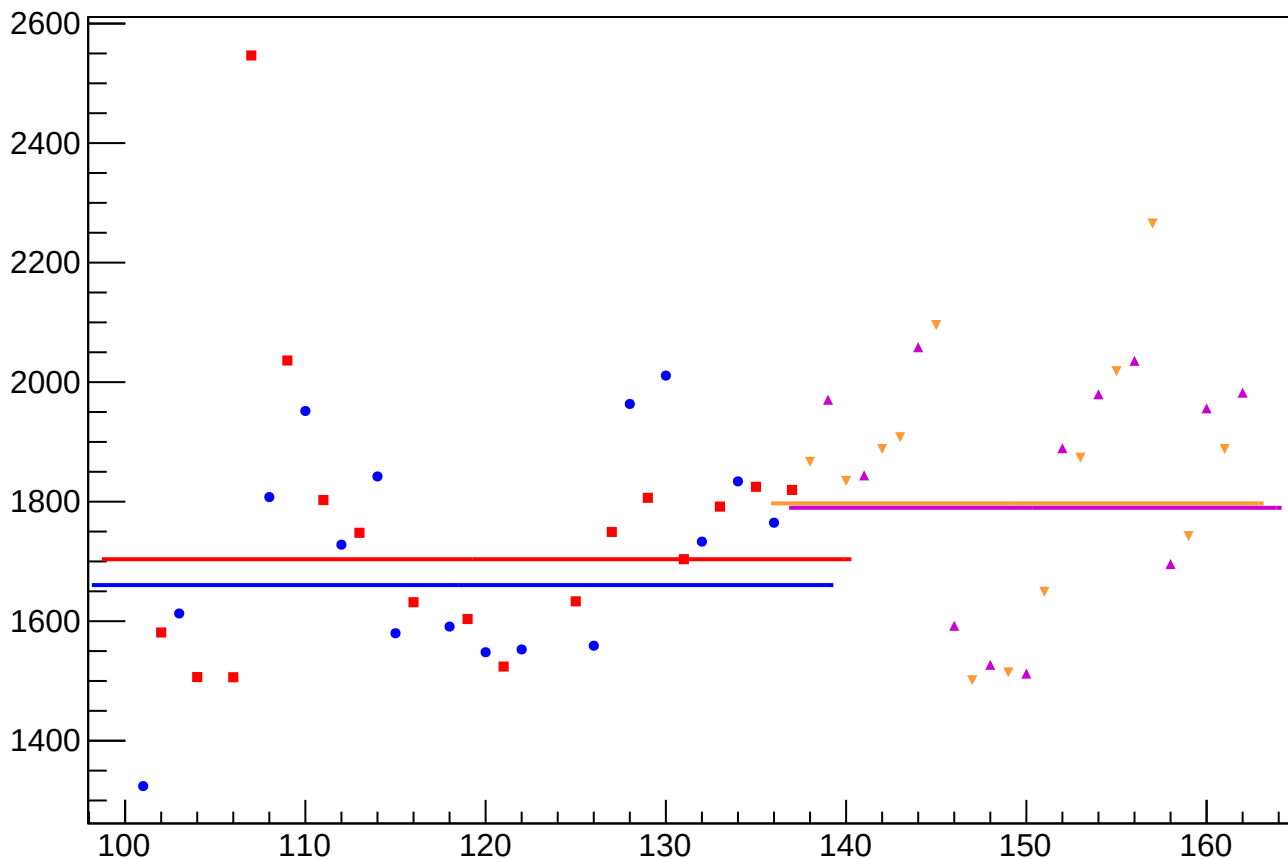
Left In:  $1886.857 \pm 575.071$   $\chi^2/\text{NDF}: 10.3/11$

+ sign  $-2630.203 \pm 430.526$   $\chi^2/\text{NDF}: 32.3/28$

All:  $-294.025 \pm 304.691$   $\chi^2/\text{NDF}: 113.3/57$

- sign  $2050.245 \pm 431.271$   $\chi^2/\text{NDF}: 22.0/28$

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



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

Left Out: 1797.198 $\pm$ 0.408  $\chi^2$ /NDF: 263381.6/12

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

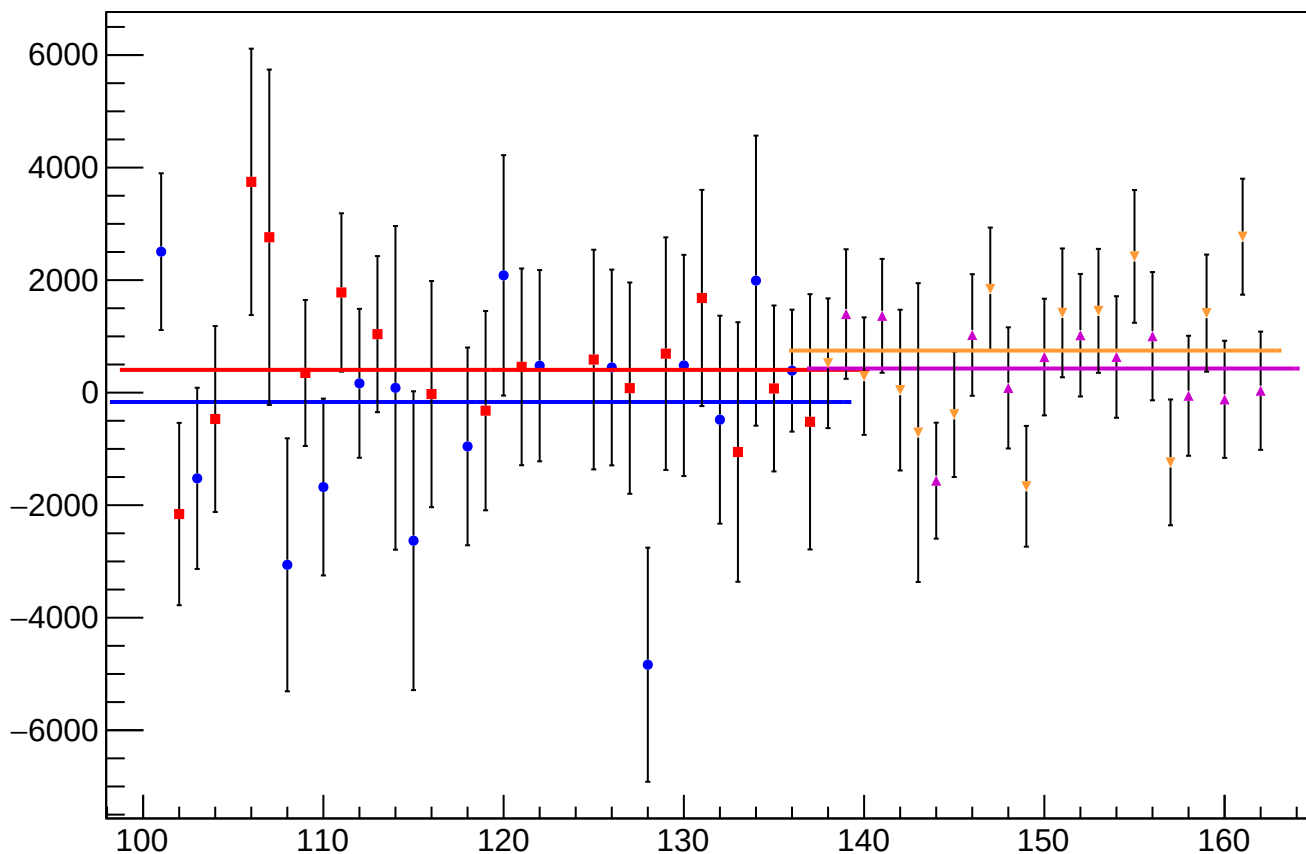
Left In: 1789.755 $\pm$ 0.407  $\chi^2$ /NDF: 248997.9/11

+ sign 1736.721 $\pm$ 0.304  $\chi^2$ /NDF: 492351.4/28

All: 1744.392 $\pm$ 0.215  $\chi^2$ /NDF: 933253.7/57

- sign 1752.090 $\pm$ 0.305  $\chi^2$ /NDF: 439630.2/28

# asym\_us\_dd\_mean vs Slug



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

Left Out:  $747.982 \pm 319.721$   $\chi^2/\text{NDF}$ : 18.0/12

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

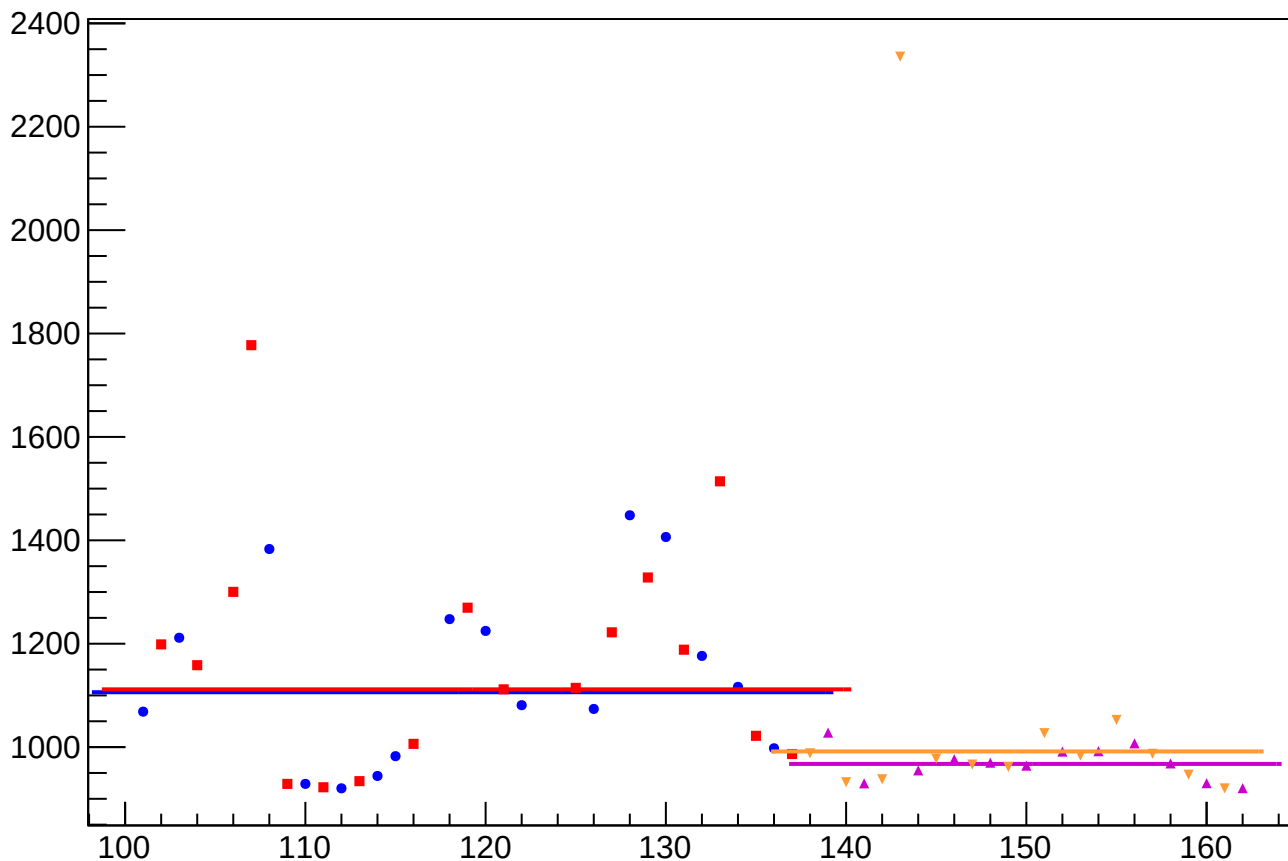
Left In:  $428.958 \pm 308.635$   $\chi^2/\text{NDF}$ : 7.0/11

+ sign  $425.057 \pm 257.136$   $\chi^2/\text{NDF}$ : 36.6/28

All:  $422.911 \pm 179.416$   $\chi^2/\text{NDF}$ : 51.4/57

- sign  $420.875 \pm 250.460$   $\chi^2/\text{NDF}$ : 14.9/28

# asym\_us\_dd\_rms vs Slug



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

Left Out: 991.643+/-0.226  $\chi^2/\text{NDF}$ : 545399.4/12

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

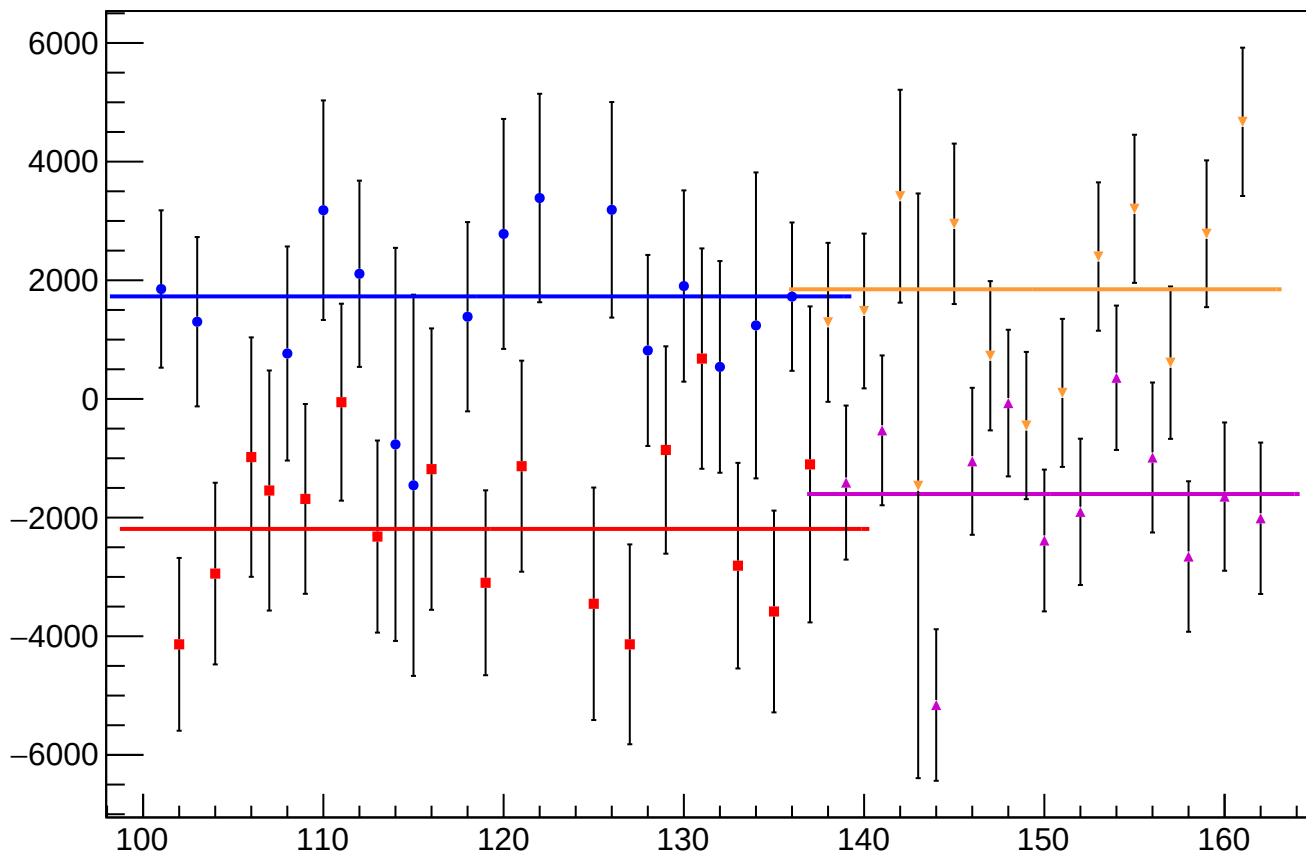
Left In: 967.480+/-0.218  $\chi^2/\text{NDF}$ : 19723.2/11

+ sign 1032.087+/-0.182  $\chi^2/\text{NDF}$ : 895935.0/28

All: 1024.209+/-0.127  $\chi^2/\text{NDF}$ : 1424874.6/57

- sign 1016.734+/-0.177  $\chi^2/\text{NDF}$ : 525280.6/28

# dit\_asym\_usl\_mean vs Slug



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

Left Out: 1848.447 $\pm$ 374.037  $\chi^2$ /NDF:16.3/12

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

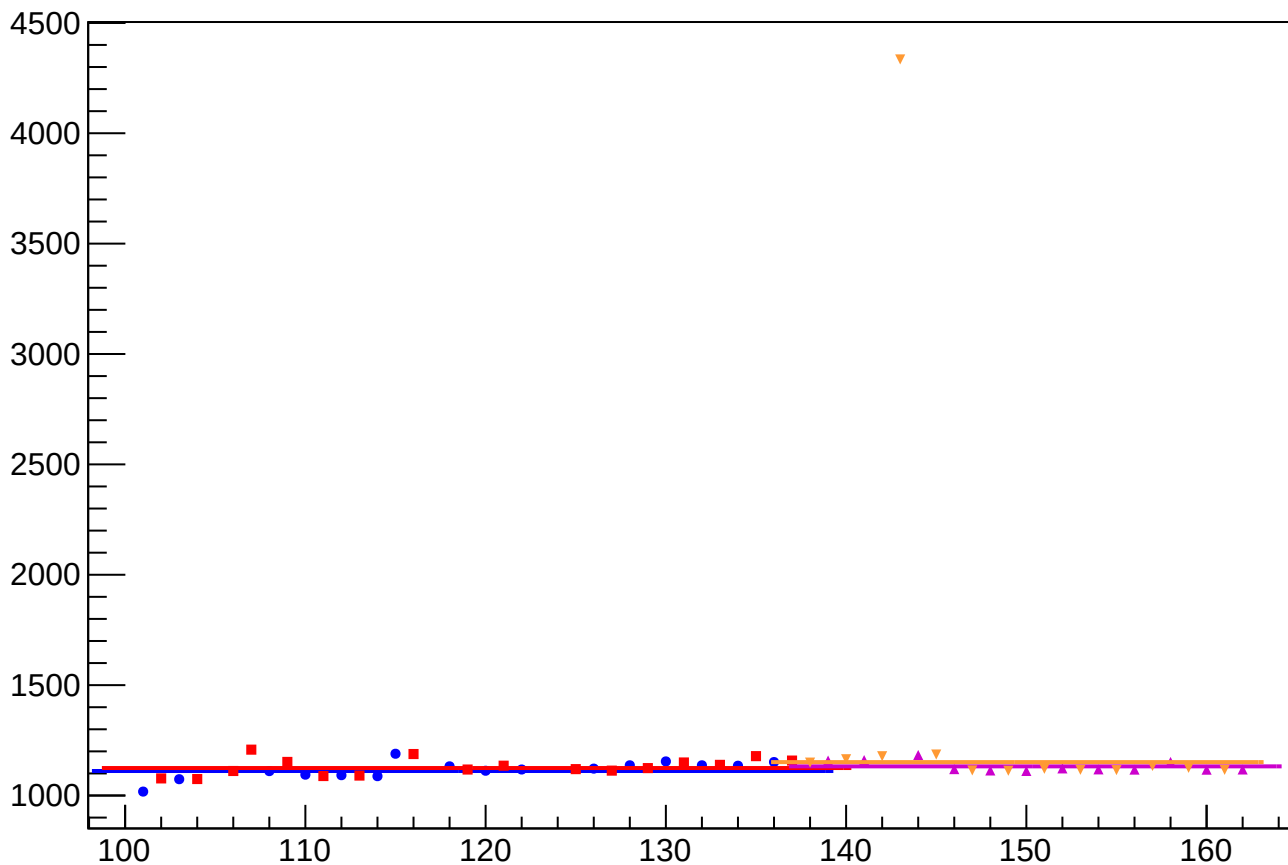
Left In: -1602.684 $\pm$ 360.976  $\chi^2$ /NDF:14.3/11

+ sign 1796.739 $\pm$ 282.154  $\chi^2$ /NDF: 21.6/28

All: -67.462 $\pm$ 197.202  $\chi^2$ /NDF: 133.2/57

- sign -1847.731 $\pm$ 275.729  $\chi^2$ /NDF: 26.3/28

# dit\_asym\_usl\_rms vs Slug



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

Left Out: 1151.338 $\pm$ 0.264  $\chi^2$ /NDF: 847439.8/12

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

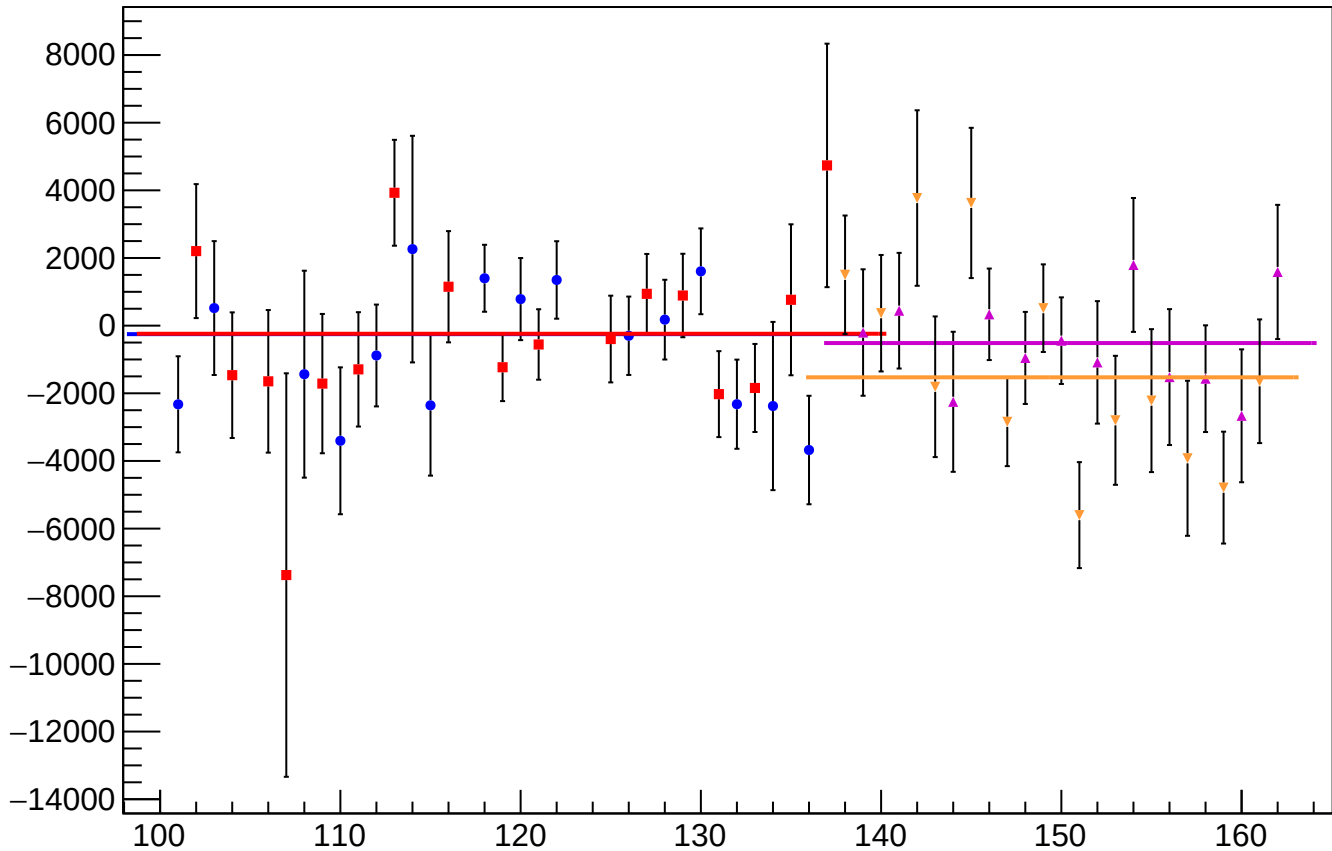
Left In: 1132.099 $\pm$ 0.255  $\chi^2$ /NDF: 8003.1/11

+ sign 1133.972 $\pm$ 0.200  $\chi^2$ /NDF: 875534.2/28

All: 1131.398 $\pm$ 0.139  $\chi^2$ /NDF: 898831.2/57

- sign 1128.939 $\pm$ 0.195  $\chi^2$ /NDF: 22971.5/28

# asym\_usl\_correction\_mean vs Slug



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

Left Out: -1527.665+/-488.801  $\chi^2/\text{NDF}$ : 29.6/12

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

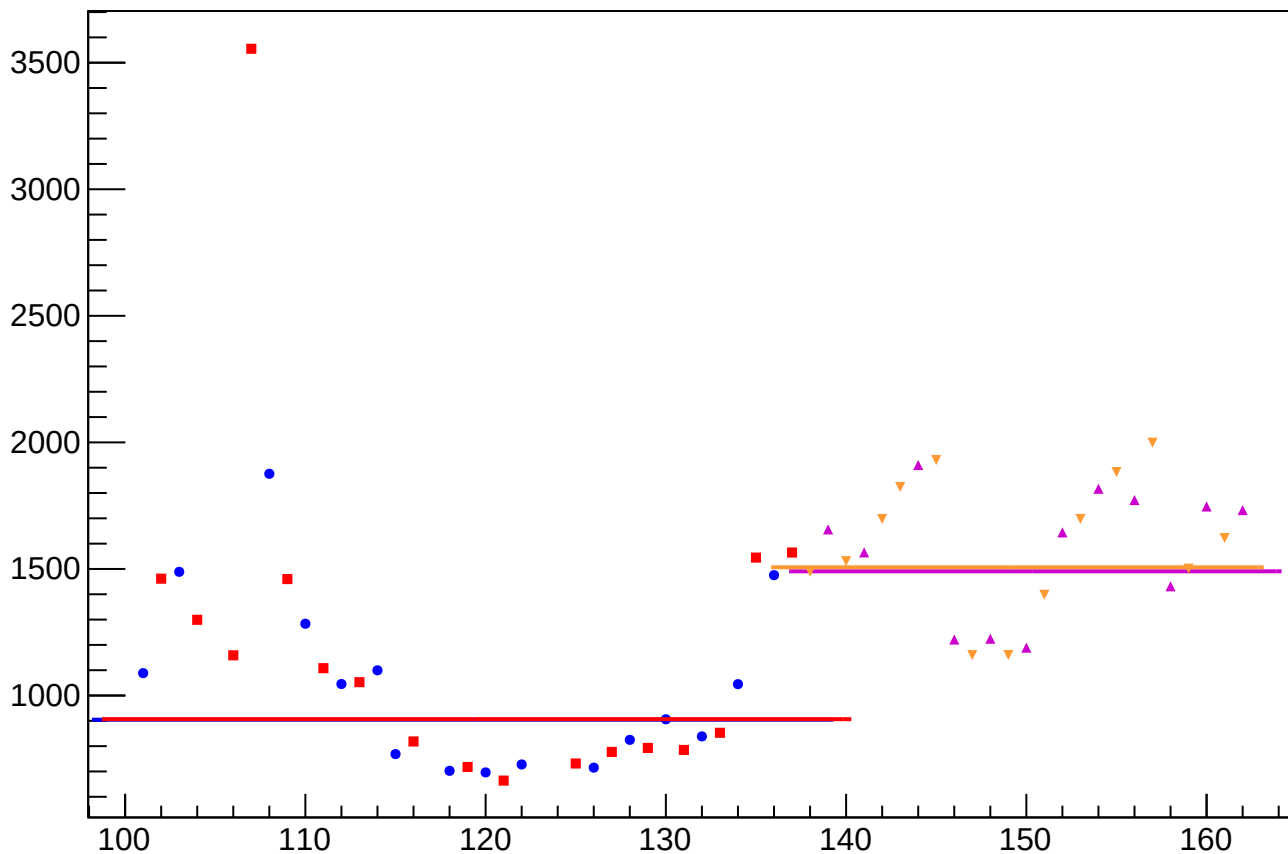
Left In: -514.588+/-483.257  $\chi^2/\text{NDF}$ : 6.0/11

+ sign -708.159+/-292.434  $\chi^2/\text{NDF}$ : 55.8/28

All: -522.589+/-206.155  $\chi^2/\text{NDF}$ : 83.9/57

- sign -339.252+/-290.669  $\chi^2/\text{NDF}$ : 27.3/28

# asym\_usl\_correction\_rms vs Slug



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

Left Out: 1506.636+/-0.346  $\chi^2/\text{NDF}$ : 607446.5/12

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

Left In: 1490.685+/-0.342  $\chi^2/\text{NDF}$ : 543338.4/11

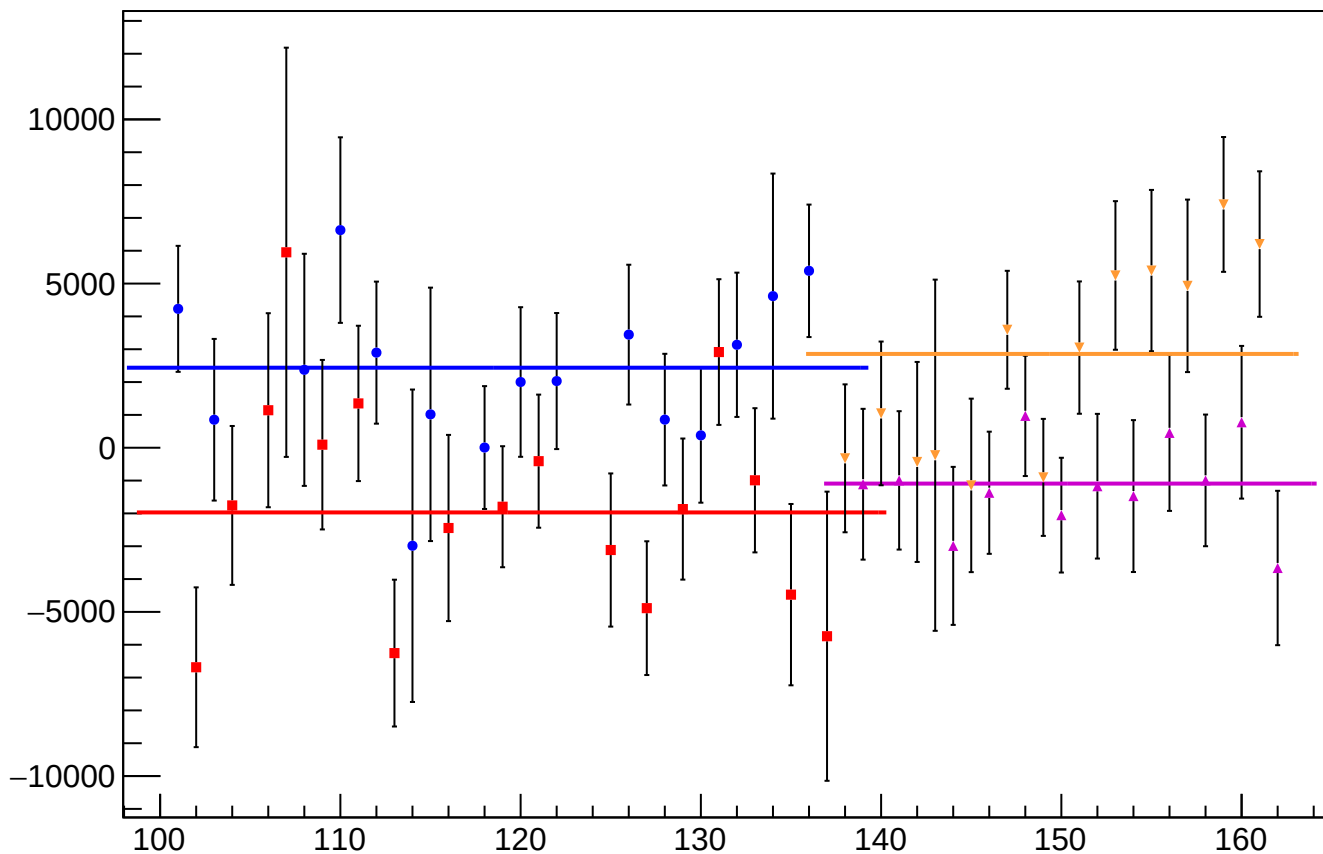
+ sign 1120.012+/-0.207  $\chi^2/\text{NDF}$ : 3577302.4/28

All: 1118.952+/-0.146  $\chi^2/\text{NDF}$ : 7361459.8/57

- sign 1117.905+/-0.206  $\chi^2/\text{NDF}$ : 3784105.2/28



# asym\_usl\_mean vs Slug



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

Left Out: 2857.018 $\pm$ 631.243  $\chi^2/\text{NDF}$ : 21.1/12

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

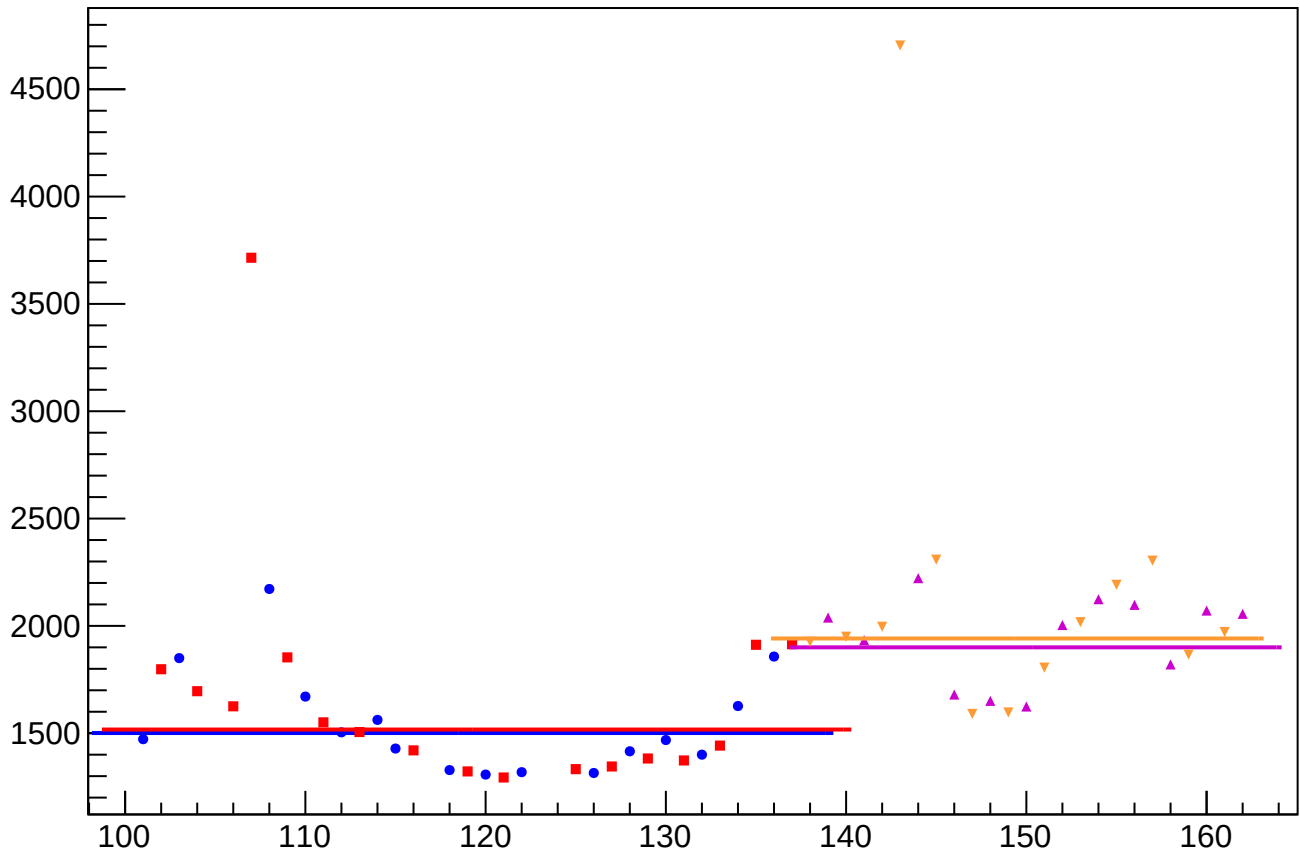
Left In: -1092.065 $\pm$ 610.159  $\chi^2/\text{NDF}$ : 4.5/11

+ sign 2631.775 $\pm$ 429.560  $\chi^2/\text{NDF}$ : 32.5/28

All: 508.964 $\pm$ 301.361  $\chi^2/\text{NDF}$ : 108.5/57

- sign -1548.492 $\pm$ 422.896  $\chi^2/\text{NDF}$ : 27.9/28

# asym\_usl\_rms vs Slug



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

Left Out: 1941.316+/-0.446  $\chi^2/\text{NDF}$ : 797692.2/12

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

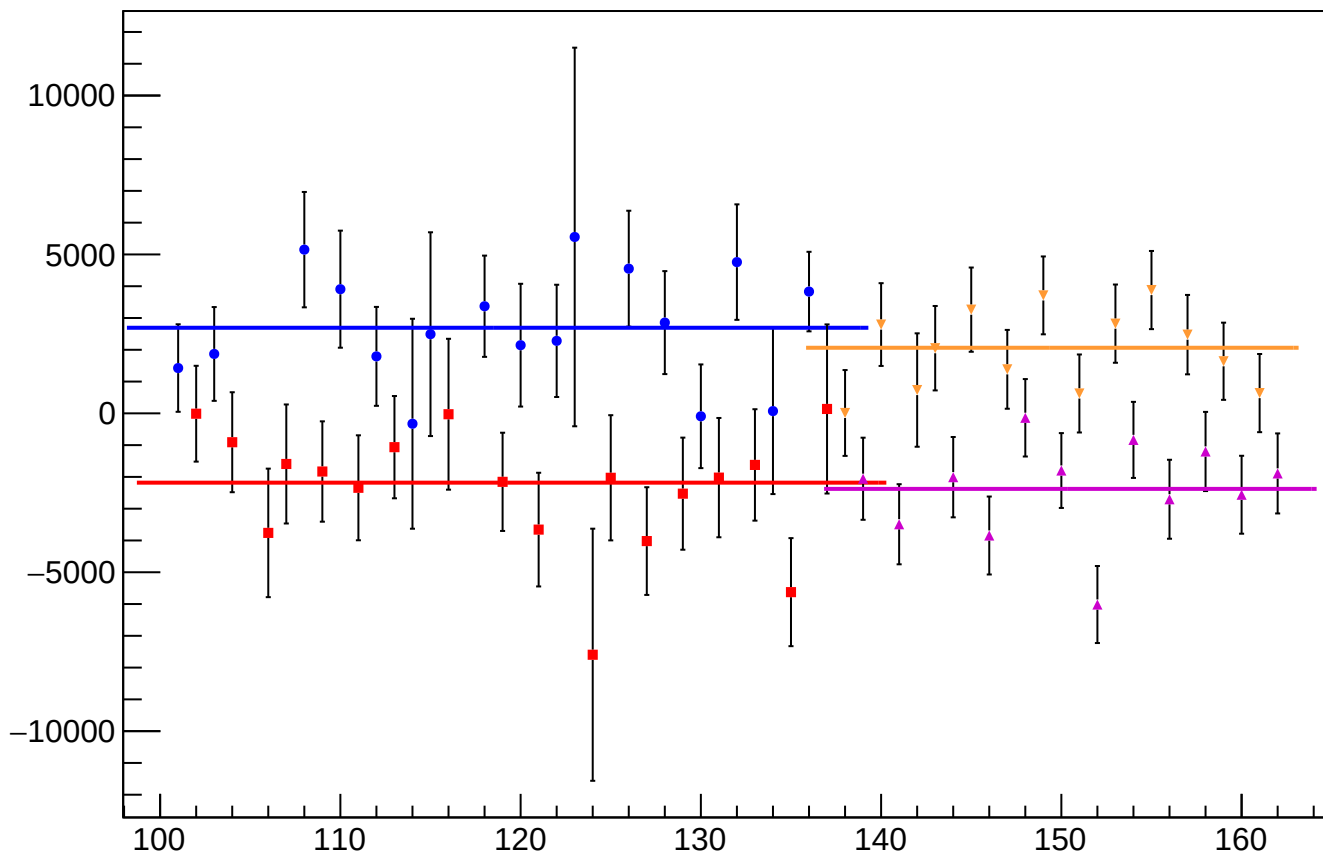
Left In: 1900.024+/-0.431  $\chi^2/\text{NDF}$ : 218308.7/11

+ sign 1704.810+/-0.304  $\chi^2/\text{NDF}$ : 1576812.7/28

All: 1702.904+/-0.213  $\chi^2/\text{NDF}$ : 2679519.0/57

- sign 1701.058+/-0.299  $\chi^2/\text{NDF}$ : 1102628.8/28

# dit\_asym\_usr\_mean vs Slug



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

Left Out: 2063.618 $\pm$ 356.479  $\chi^2$ /NDF: 11.6/12

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

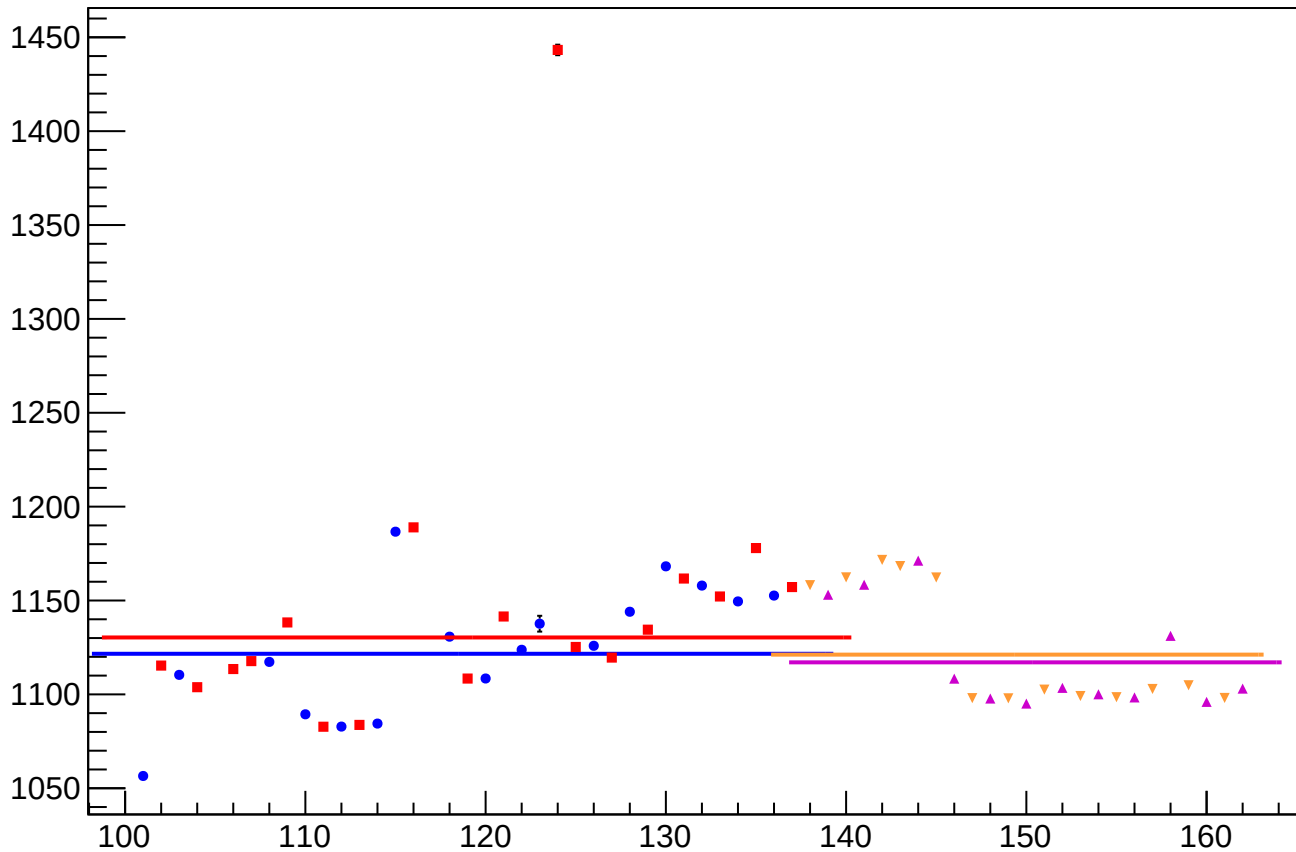
Left In: -2376.974 $\pm$ 356.189  $\chi^2$ /NDF: 17.8/11

+ sign 2318.141 $\pm$ 275.112  $\chi^2$ /NDF: 25.1/29

All: -5.875 $\pm$ 193.822  $\chi^2$ /NDF: 198.3/59

- sign -2296.209 $\pm$ 273.111  $\chi^2$ /NDF: 31.4/29

# dit\_asym\_usr\_rms vs Slug



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

Left Out: 1121.175 $\pm$ 0.252  $\chi^2$ /NDF: 14239.8/12

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

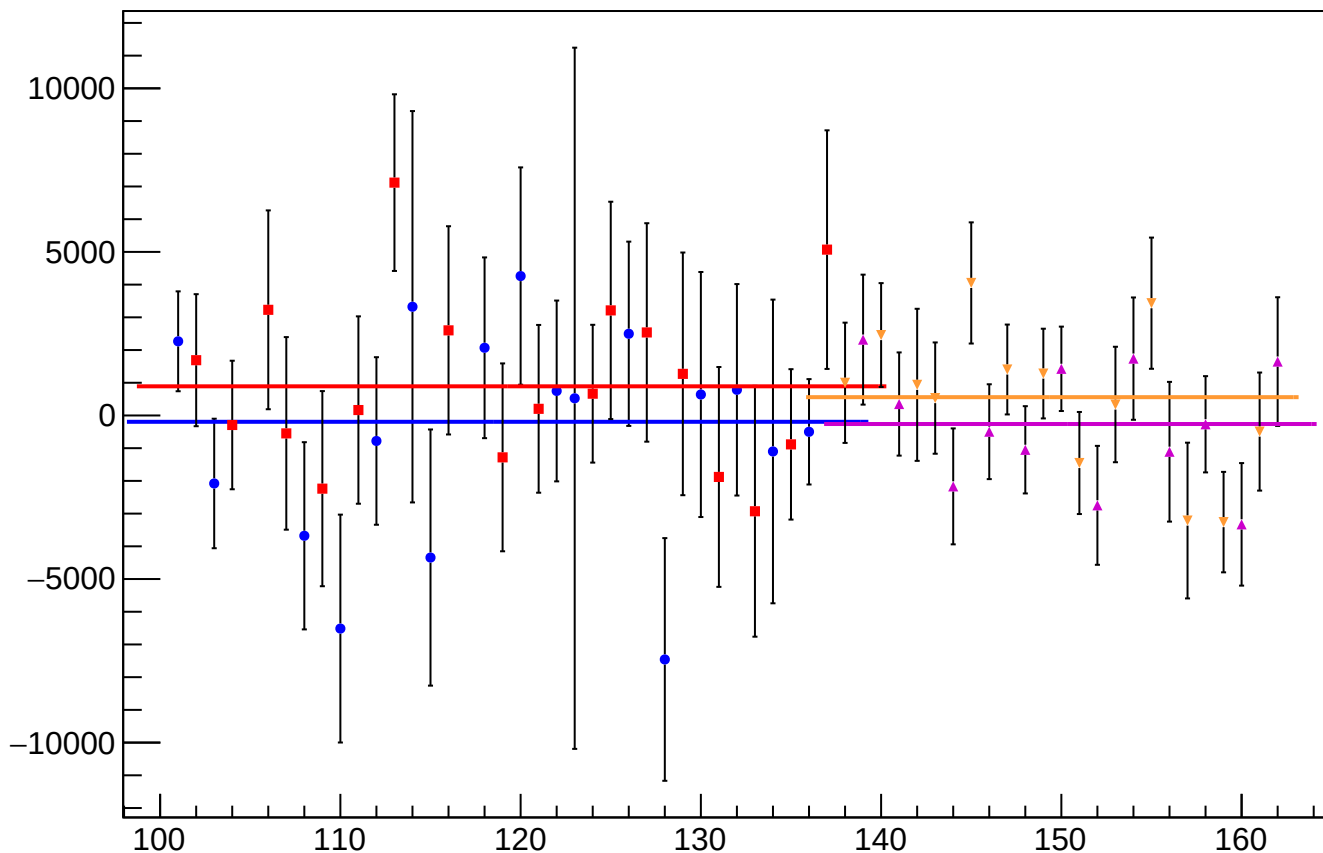
Left In: 1117.061 $\pm$ 0.252  $\chi^2$ /NDF: 10875.6/11

+ sign 1121.357 $\pm$ 0.195  $\chi^2$ /NDF: 26221.3/29

All: 1121.944 $\pm$ 0.137  $\chi^2$ /NDF: 59532.5/59

- sign 1122.523 $\pm$ 0.193  $\chi^2$ /NDF: 33293.1/29

# asym\_usr\_correction\_mean vs Slug



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

Left Out:  $559.536 \pm 473.271$   $\chi^2/\text{NDF}: 18.5/12$

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

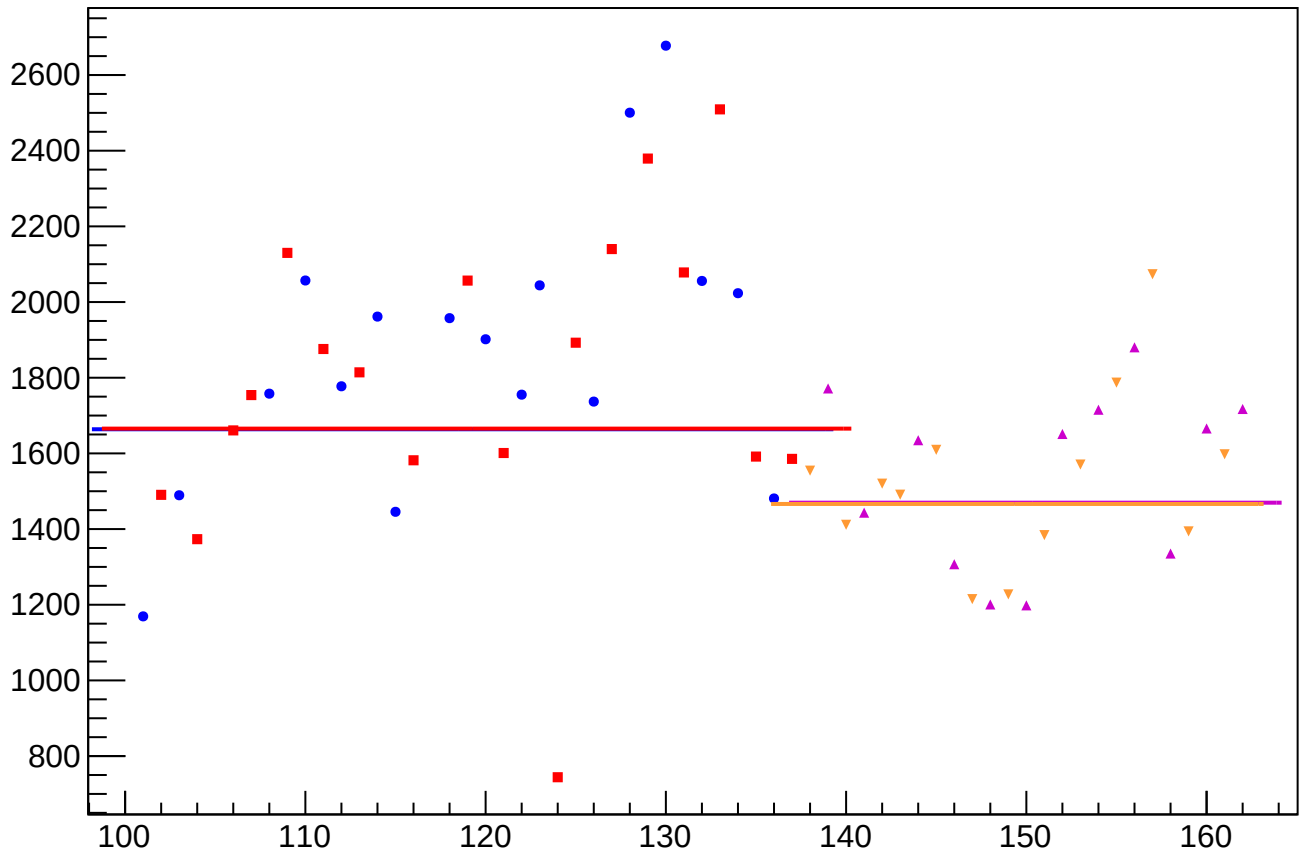
Left In:  $-261.179 \pm 475.341$   $\chi^2/\text{NDF}: 11.9/11$

+ sign  $304.057 \pm 384.679$   $\chi^2/\text{NDF}: 36.7/29$

All:  $222.188 \pm 271.615$   $\chi^2/\text{NDF}: 63.8/59$

- sign  $140.792 \pm 383.568$   $\chi^2/\text{NDF}: 27.0/29$

# asym\_usr\_correction\_rms vs Slug



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

Left Out: 1466.364+/-0.335  $\chi^2/\text{NDF}$ : 357022.3/12

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

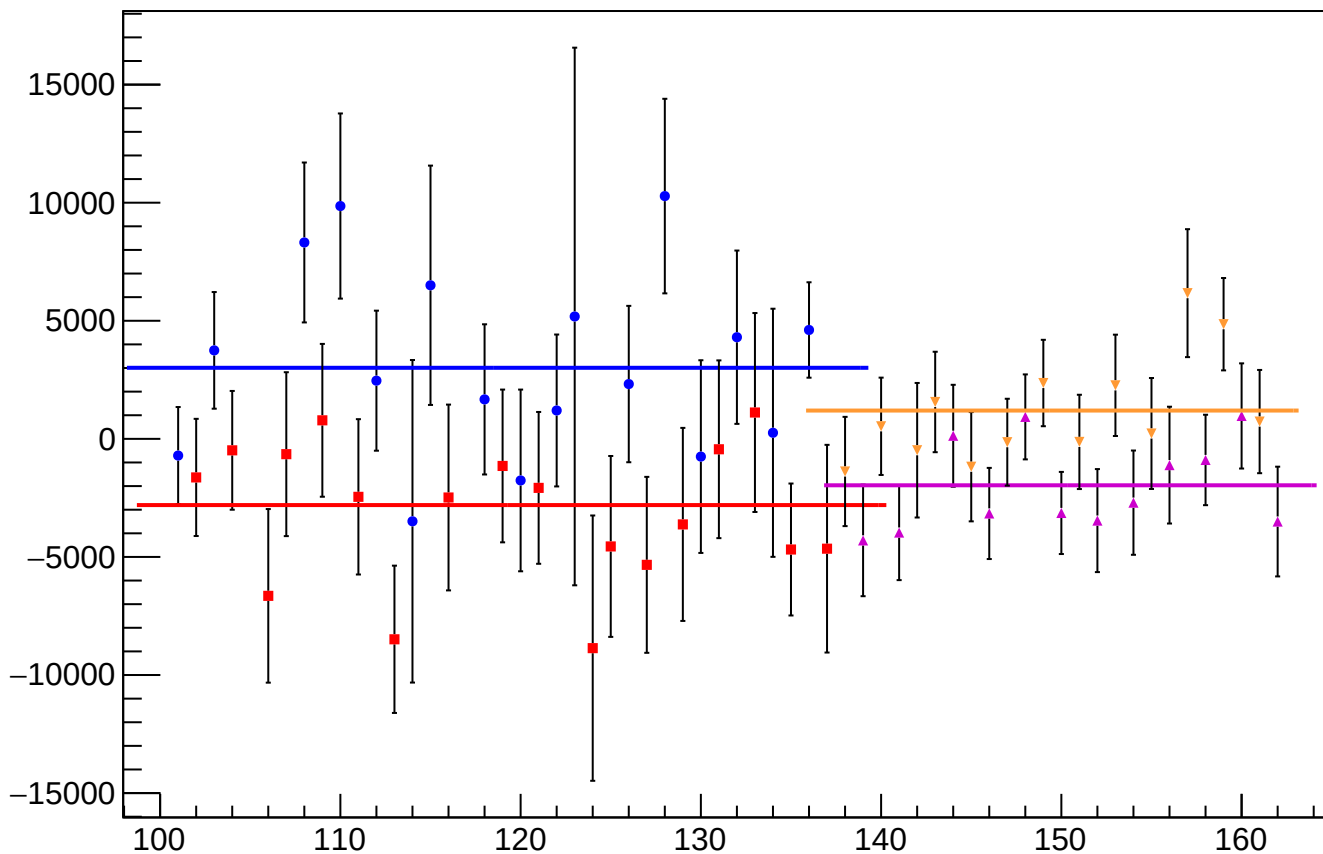
Left In: 1469.731+/-0.336  $\chi^2/\text{NDF}$ : 457876.0/11

+ sign 1533.355+/-0.272  $\chi^2/\text{NDF}$ : 1097589.0/29

All: 1535.692+/-0.192  $\chi^2/\text{NDF}$ : 2476711.0/59

- sign 1538.016+/-0.271  $\chi^2/\text{NDF}$ : 1378974.8/29

# asym\_usr\_mean vs Slug



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

Left Out: 1198.768+/-597.137  $\chi^2/\text{NDF}$ : 11.5/12

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

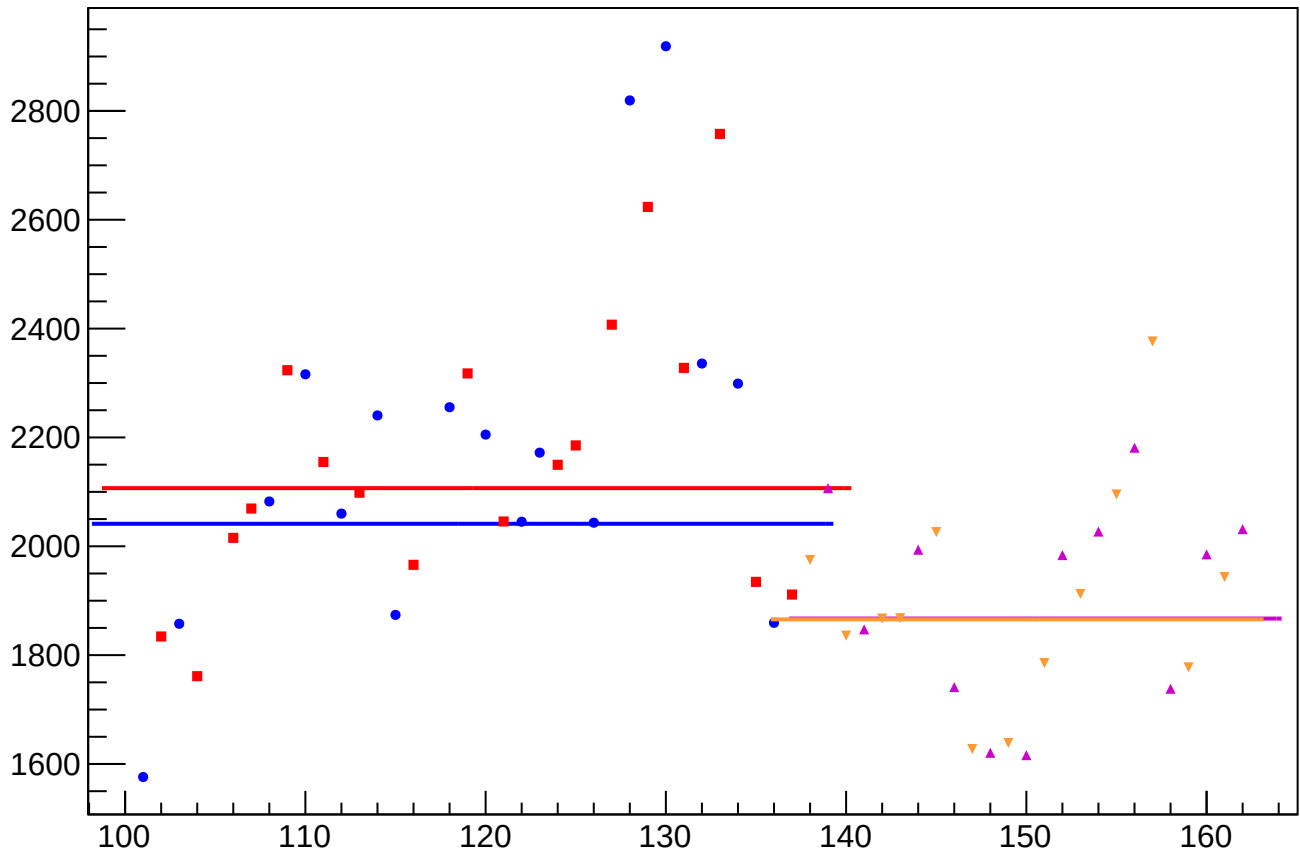
Left In: -1966.105+/-598.957  $\chi^2/\text{NDF}$ : 9.5/11

+ sign 1846.902+/-478.455  $\chi^2/\text{NDF}$ : 32.2/29

All: -206.219+/-338.644  $\chi^2/\text{NDF}$ : 90.5/59

- sign -2267.263+/-479.377  $\chi^2/\text{NDF}$ : 21.4/29

# asym\_usr\_rms vs Slug



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

Left Out: 1865.709+/-0.422  $\chi^2/\text{NDF}$ : 179780.7/12

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

Left In: 1867.195+/-0.424  $\chi^2/\text{NDF}$ : 188554.5/11

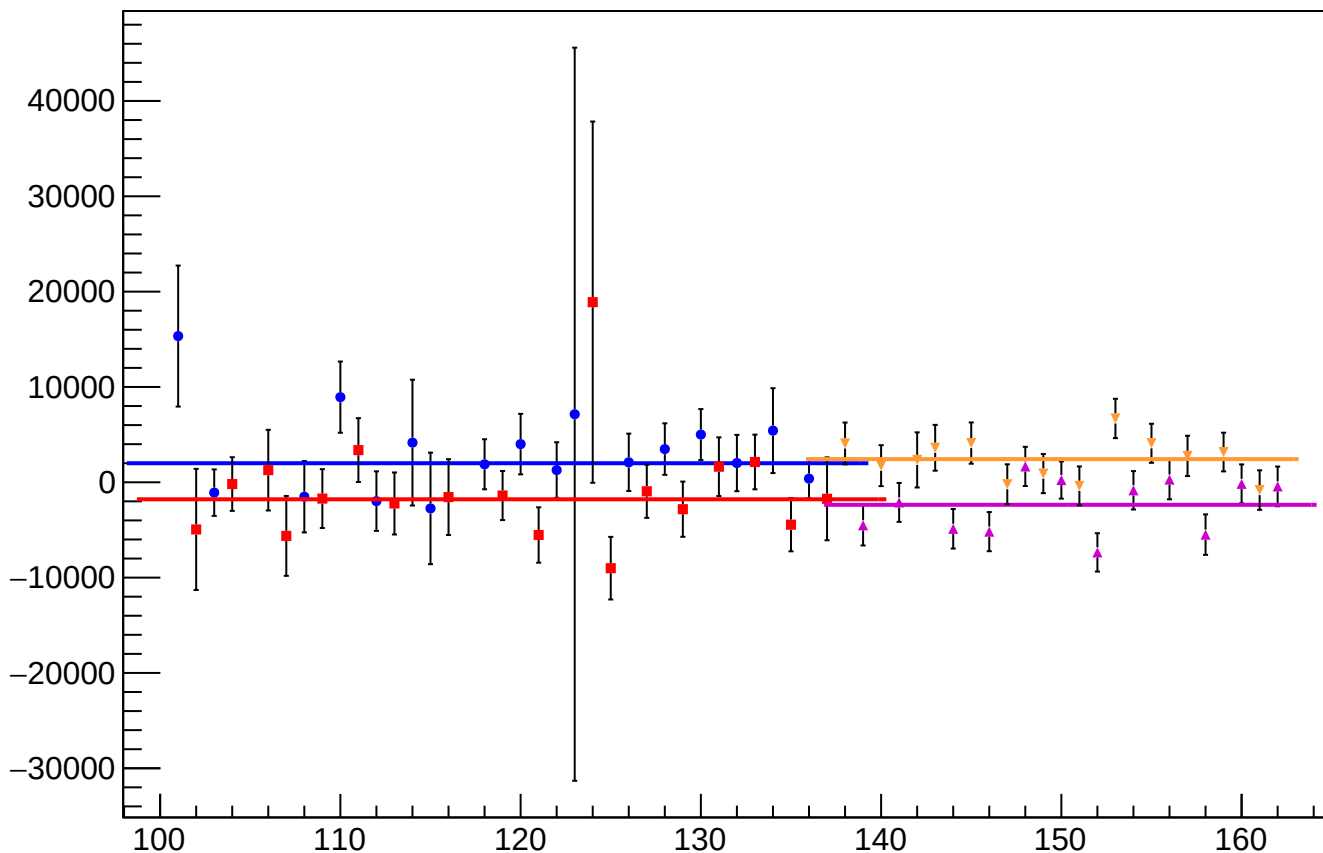
+ sign 1928.588+/-0.338  $\chi^2/\text{NDF}$ : 580163.3/29

All: 1940.937+/-0.239  $\chi^2/\text{NDF}$ : 1083191.8/59

- sign 1953.334+/-0.339  $\chi^2/\text{NDF}$ : 500358.7/29



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



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

Left Out: 2432.632+/-596.466  $\chi^2/\text{NDF}$ : 13.1/12

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

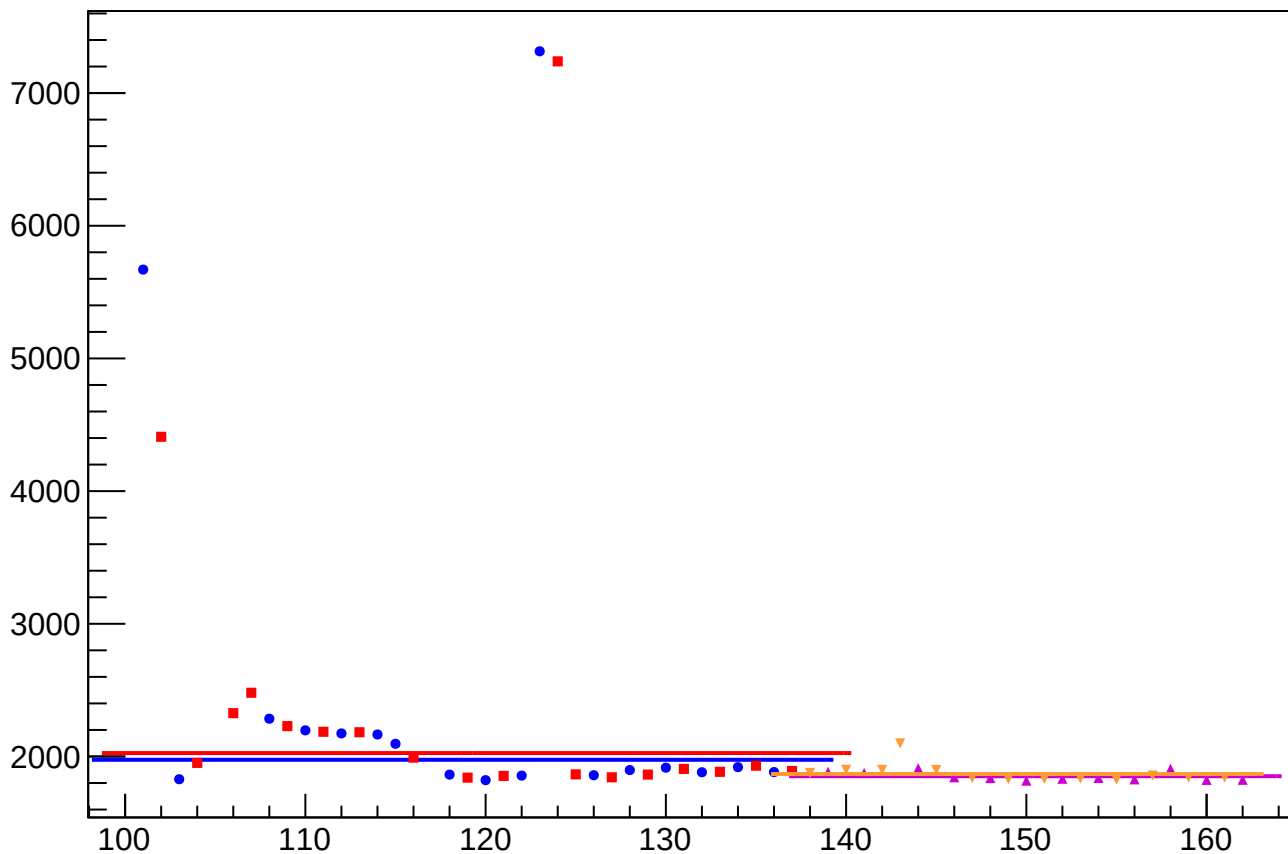
Left In: -2362.905+/-592.297  $\chi^2/\text{NDF}$ : 22.6/11

+ sign 2273.373+/-474.169  $\chi^2/\text{NDF}$ : 28.1/29

All: 51.579+/-334.560  $\chi^2/\text{NDF}$ : 111.0/59

- sign -2151.018+/-472.116  $\chi^2/\text{NDF}$ : 39.2/29

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



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

Left Out: 1867.908+/-0.422  $\chi^2/\text{NDF}$ : 23488.8/12

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

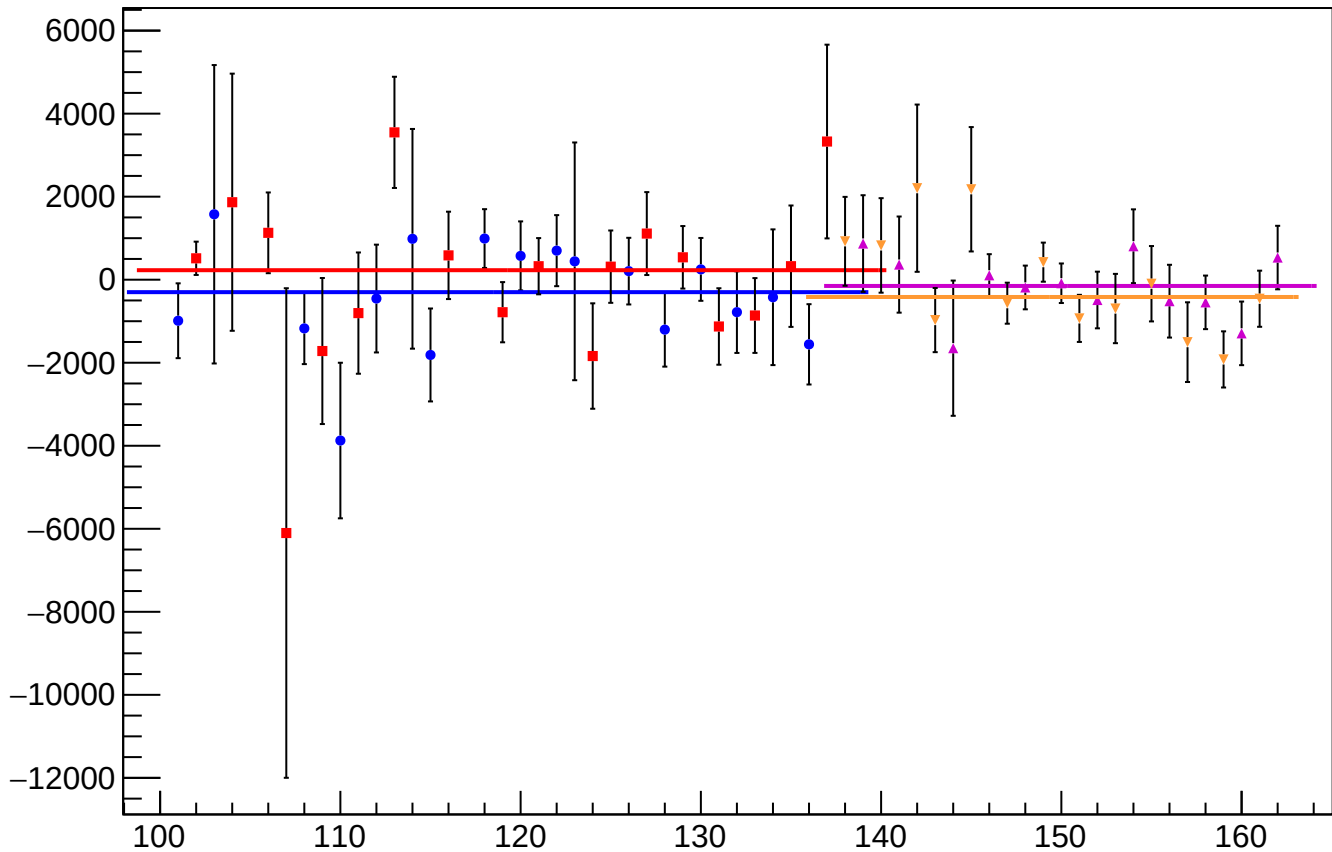
Left In: 1851.162+/-0.419  $\chi^2/\text{NDF}$ : 5784.0/11

+ sign 1907.361+/-0.335  $\chi^2/\text{NDF}$ : 647096.7/29

All: 1911.131+/-0.237  $\chi^2/\text{NDF}$ : 1251970.3/59

- sign 1914.868+/-0.334  $\chi^2/\text{NDF}$ : 604621.8/29

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



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

Left Out: -416.484 $\pm$ 204.846  $\chi^2$ /NDF: 18.5/12

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

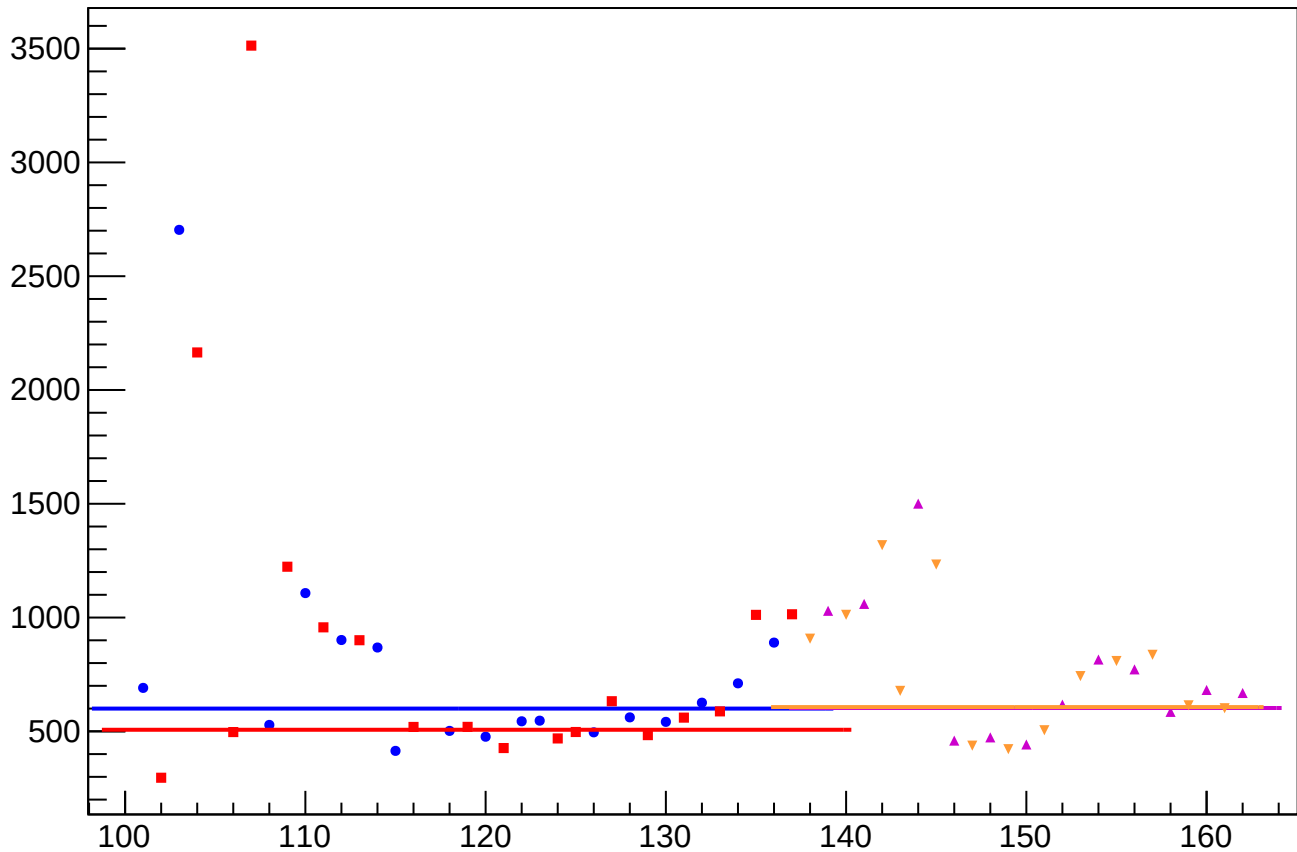
Left In: -150.531 $\pm$ 202.992  $\chi^2$ /NDF: 7.1/11

+ sign -368.923 $\pm$ 157.576  $\chi^2$ /NDF: 36.0/29

All: -157.931 $\pm$ 107.801  $\chi^2$ /NDF: 69.9/59

- sign 27.696 $\pm$ 147.801  $\chi^2$ /NDF: 30.5/29

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



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

Left Out: 606.574+/-0.145     $\chi^2/\text{NDF}$ : 1903522.3/12

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

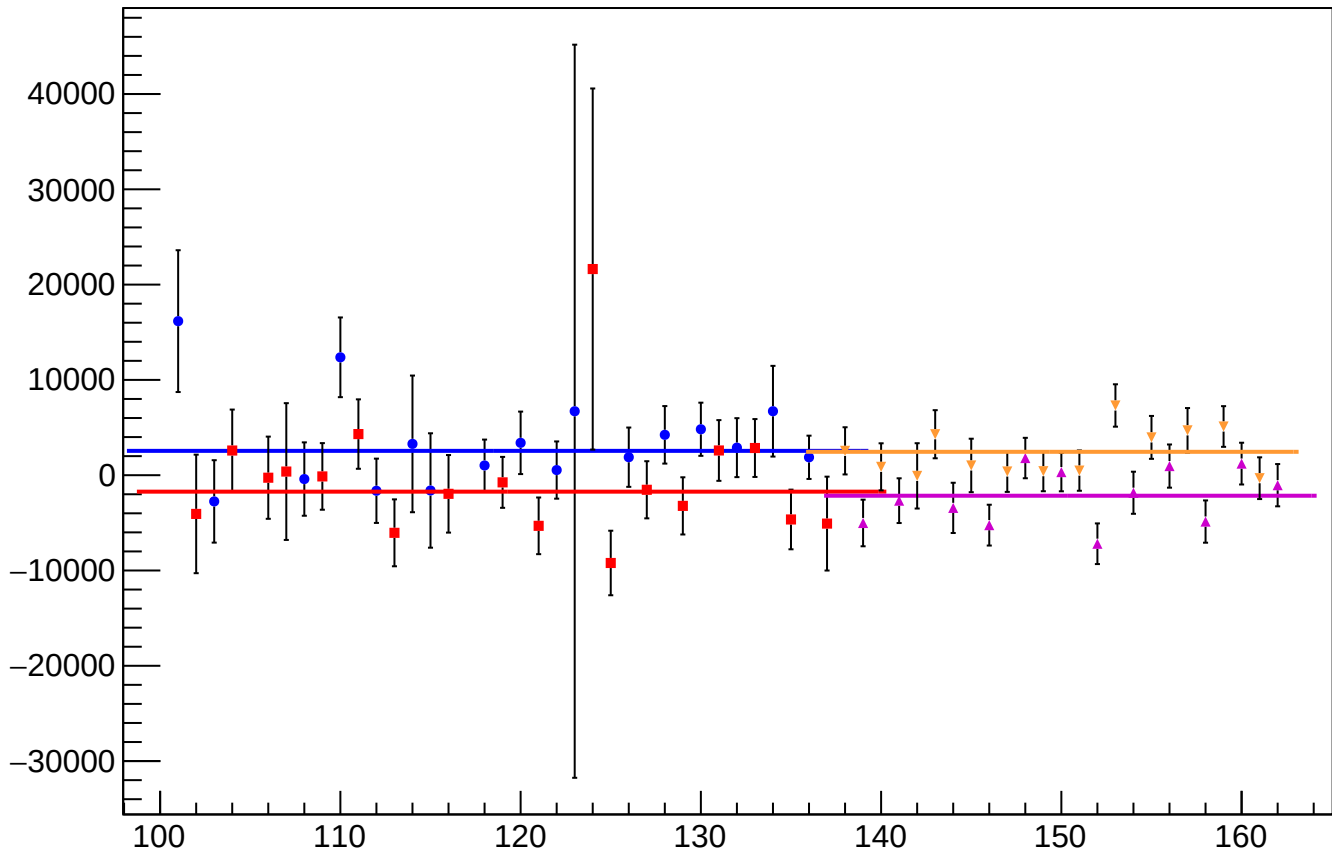
Left In: 602.524+/-0.144     $\chi^2/\text{NDF}$ : 1923354.9/11

+ sign 603.871+/-0.111     $\chi^2/\text{NDF}$ : 3285424.8/29

All: 579.247+/-0.076     $\chi^2/\text{NDF}$ : 8270086.6/59

- sign 557.584+/-0.105     $\chi^2/\text{NDF}$ : 4892855.2/29

# asym\_at1\_avg\_mean vs Slug



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

Left Out:  $2454.274 \pm 649.169$   $\chi^2/\text{NDF}$ : 13.8/12

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

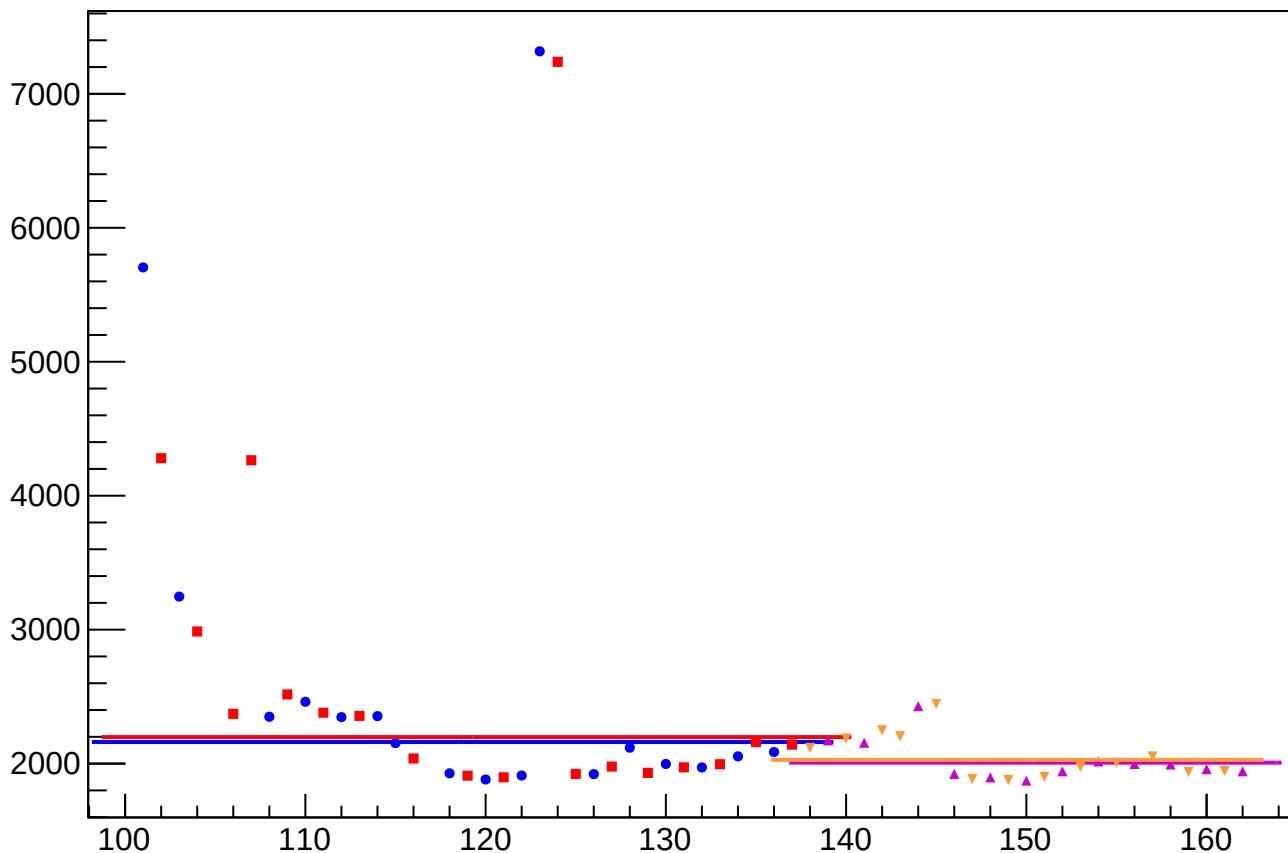
Left In:  $-2154.646 \pm 643.643$   $\chi^2/\text{NDF}$ : 20.3/11

+ sign  $2490.384 \pm 517.888$   $\chi^2/\text{NDF}$ : 29.5/29

All:  $229.391 \pm 364.912$   $\chi^2/\text{NDF}$ : 107.3/59

- sign  $-2000.023 \pm 514.258$   $\chi^2/\text{NDF}$ : 40.0/29

# asym\_at1\_avg\_rms vs Slug



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

Left Out: 2027.851+/-0.459     $\chi^2/\text{NDF}$ :107928.0/12

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

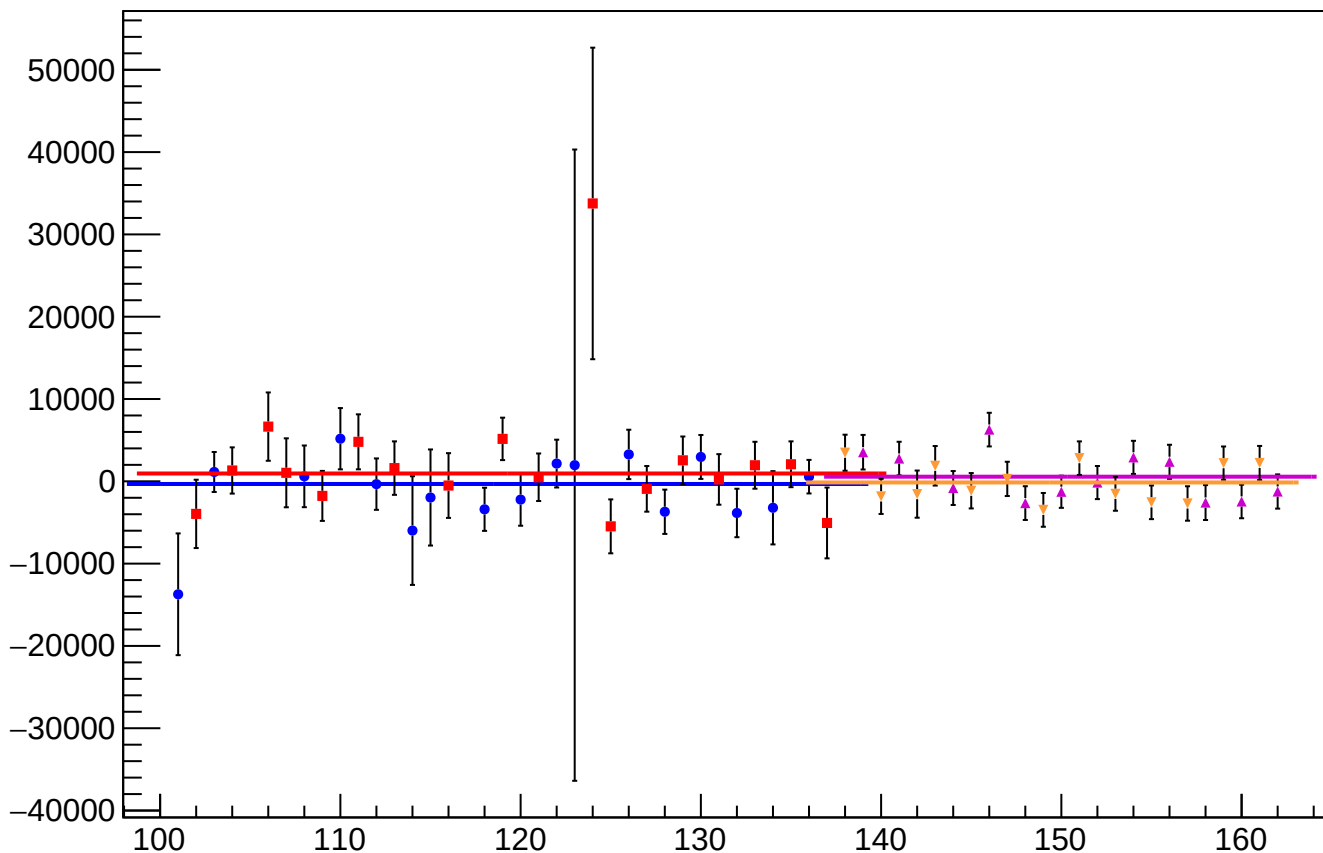
Left In: 2007.092+/-0.455     $\chi^2/\text{NDF}$ :90519.2/11

+ sign 2076.411+/-0.366     $\chi^2/\text{NDF}$ : 849962.9/29

All: 2076.304+/-0.258     $\chi^2/\text{NDF}$ : 1738109.3/59

- sign 2076.198+/-0.364     $\chi^2/\text{NDF}$ : 888146.2/29

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



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

Left Out: -137.817+/-594.403  $\chi^2/\text{NDF}$ : 15.3/12

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

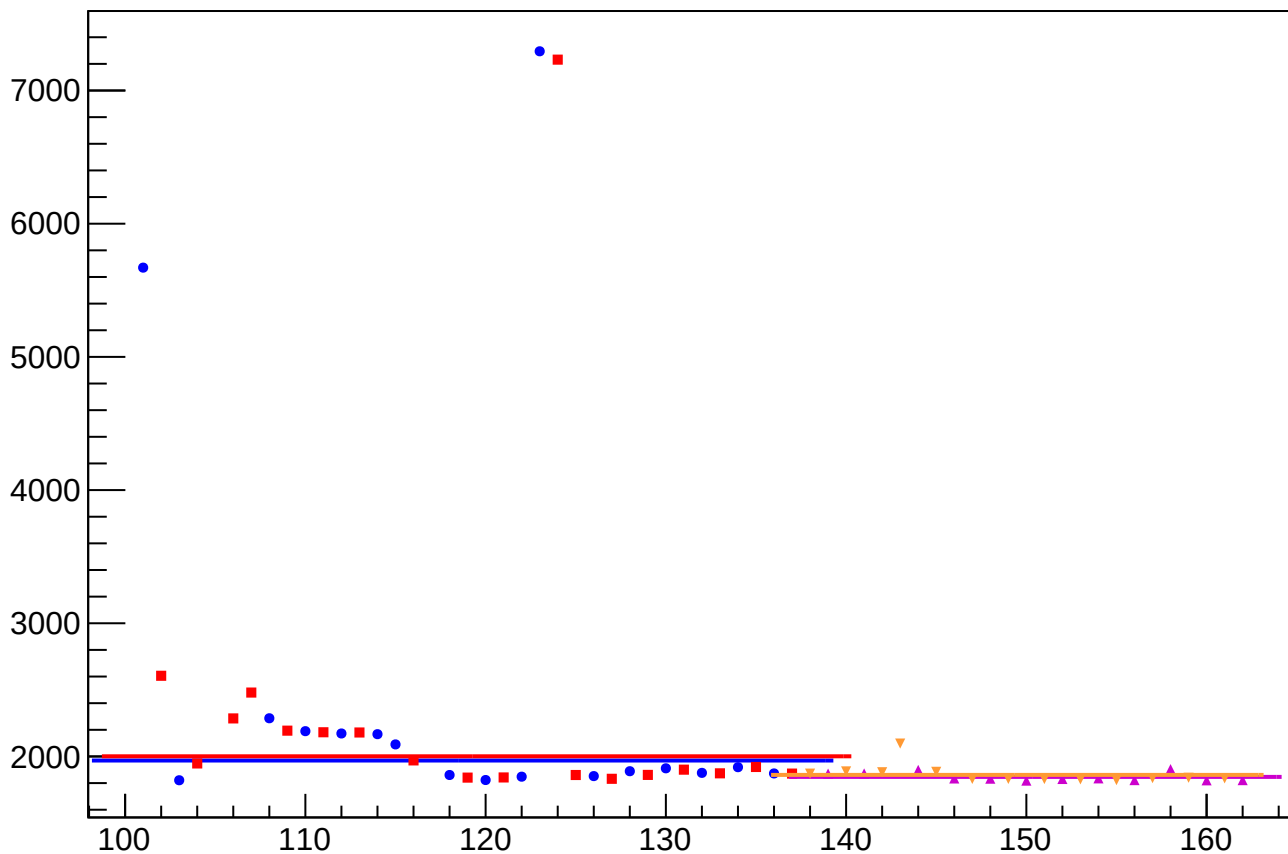
Left In: 561.009+/-590.792  $\chi^2/\text{NDF}$ : 22.2/11

+ sign -206.175+/-472.663  $\chi^2/\text{NDF}$ : 31.1/29

All: 253.450+/-332.844  $\chi^2/\text{NDF}$ : 73.5/59

- sign 705.566+/-468.786  $\chi^2/\text{NDF}$ : 40.5/29

dit\_asym\_at1\_dd\_rms vs Slug



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

Left Out: 1861.521+/-0.420  $\chi^2/\text{NDF}$ : 23288.9/12

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

Left In: 1846.528+/-0.418  $\chi^2/\text{NDF}$ : 5038.3/11

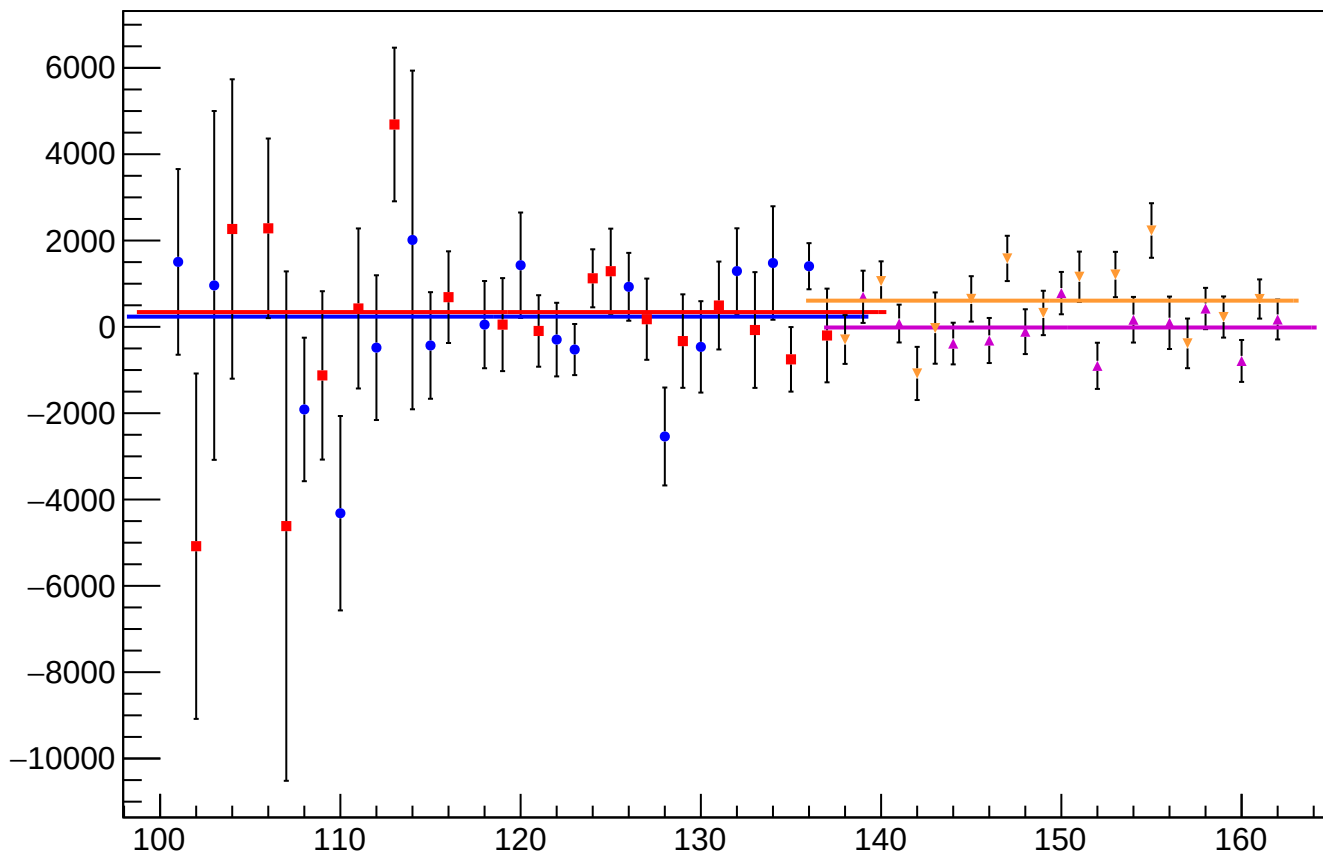
+ sign 1901.220+/-0.334  $\chi^2/\text{NDF}$ : 650363.4/29

All: 1902.524+/-0.235  $\chi^2/\text{NDF}$ : 996814.8/59

- sign 1903.807+/-0.331  $\chi^2/\text{NDF}$ : 346421.2/29



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



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

Left Out: 607.471+/-150.137  $\chi^2/\text{NDF}$ : 27.8/12

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

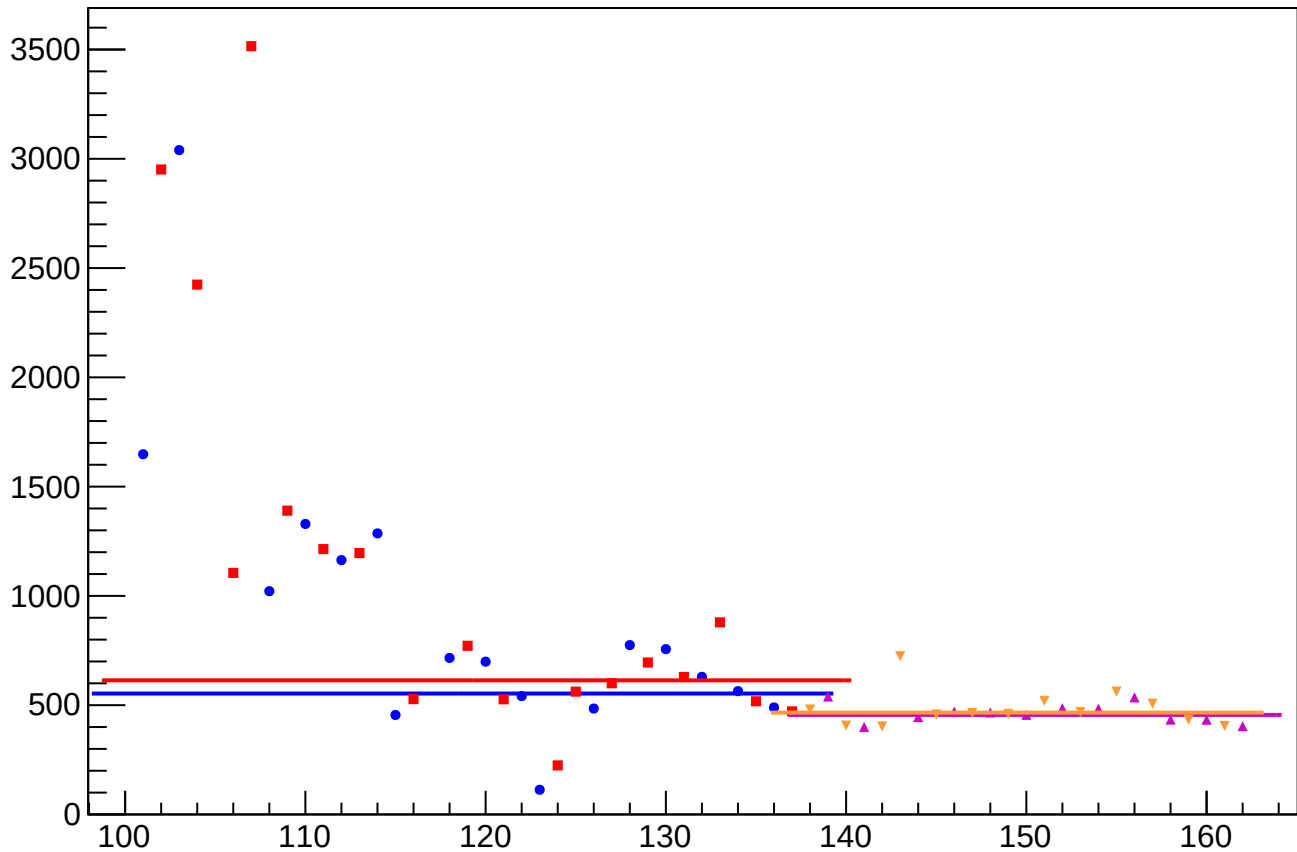
Left In: -14.368+/-146.112  $\chi^2/\text{NDF}$ : 11.5/11

+ sign 508.427+/-128.519  $\chi^2/\text{NDF}$ : 53.3/29

All: 287.519+/-90.816  $\chi^2/\text{NDF}$ : 88.0/59

- sign 67.197+/-128.348  $\chi^2/\text{NDF}$ : 28.8/29

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



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

Left Out: 466.076+/-0.106  $\chi^2/\text{NDF}$ : 370613.6/12

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

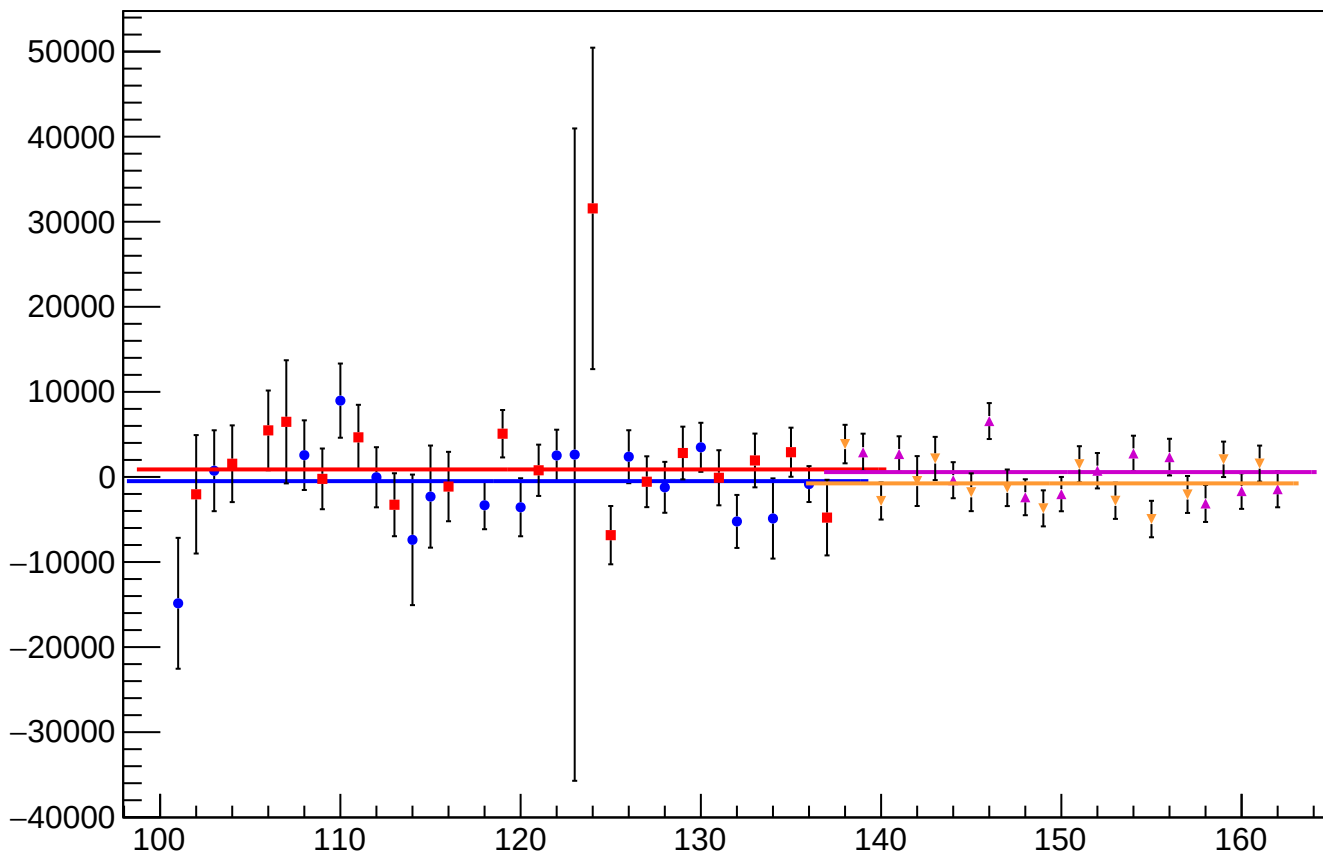
Left In: 455.577+/-0.103  $\chi^2/\text{NDF}$ : 153759.7/11

+ sign 489.381+/-0.091  $\chi^2/\text{NDF}$ : 3963680.9/29

All: 490.521+/-0.064  $\chi^2/\text{NDF}$ : 8128212.9/59

- sign 491.659+/-0.091  $\chi^2/\text{NDF}$ : 4164217.5/29

# asym\_at1\_dd\_mean vs Slug



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

Left Out:  $-755.791 \pm 614.903$   $\chi^2/\text{NDF}$ : 17.9/12

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

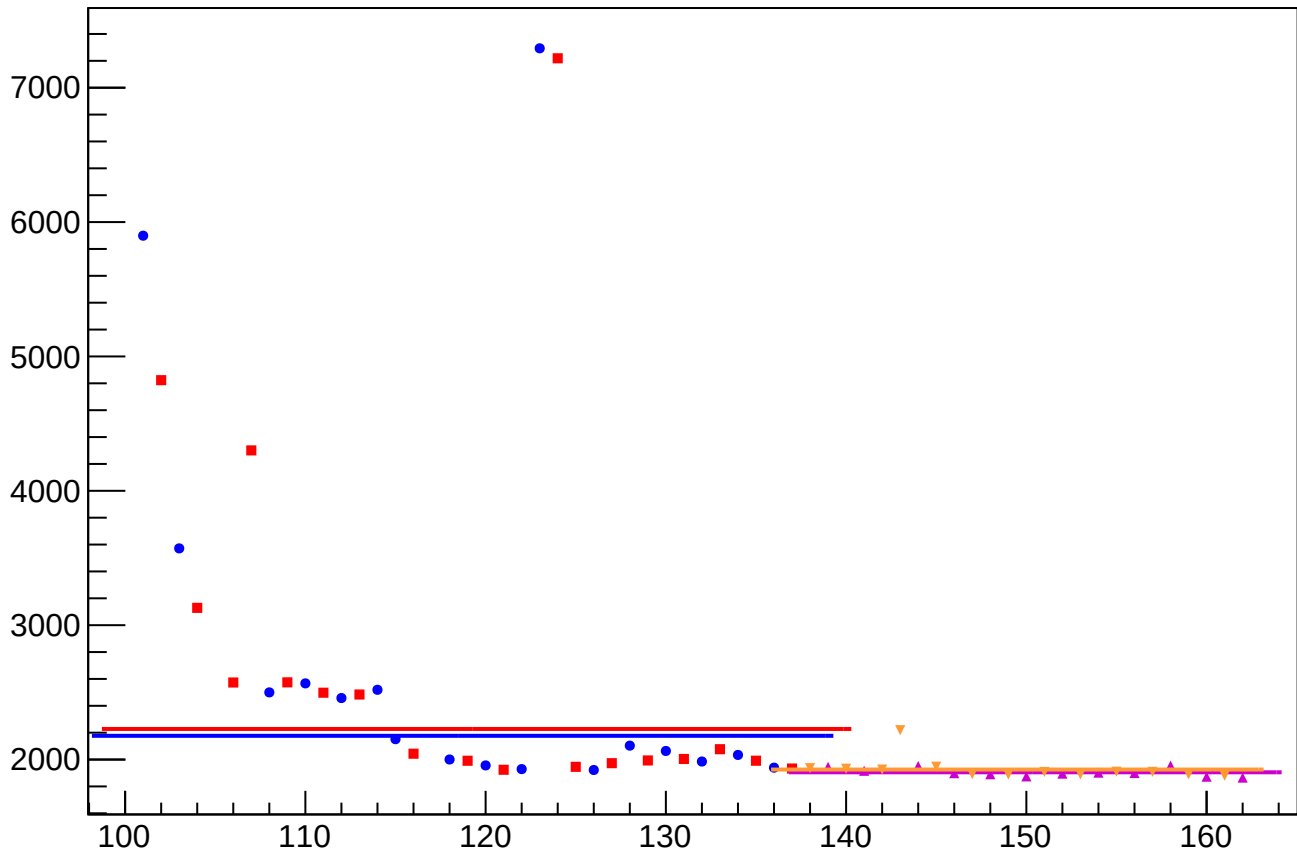
Left In:  $571.694 \pm 609.464$   $\chi^2/\text{NDF}$ : 20.7/11

+ sign  $-667.623 \pm 501.754$   $\chi^2/\text{NDF}$ : 36.5/29

All:  $7.305 \pm 353.818$   $\chi^2/\text{NDF}$ : 78.2/59

- sign  $674.856 \pm 499.005$   $\chi^2/\text{NDF}$ : 38.1/29

# asym\_at1\_dd\_rms vs Slug



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

Left Out: 1925.628 $\pm$ 0.435  $\chi^2$ /NDF: 30414.1/12

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

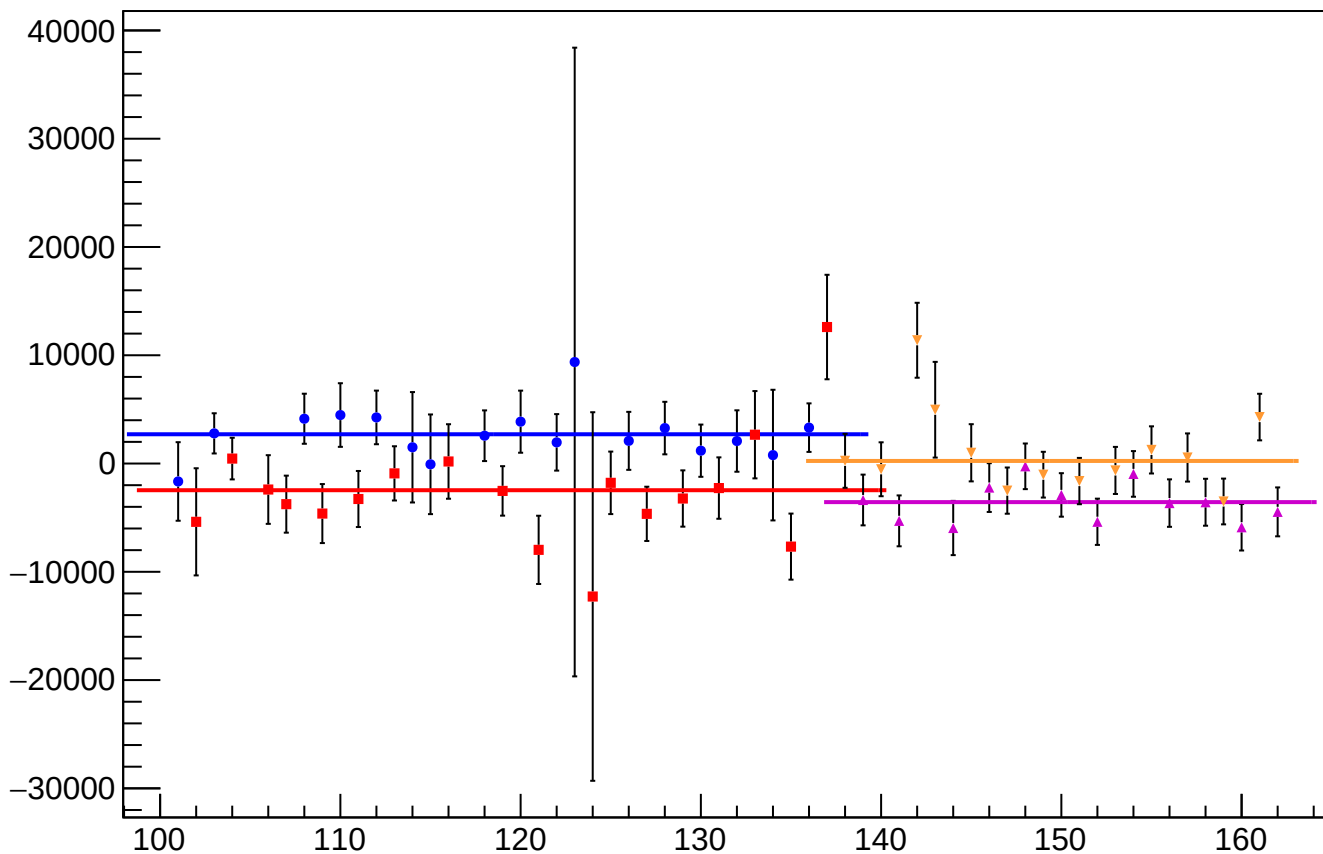
Left In: 1905.102 $\pm$ 0.431  $\chi^2$ /NDF: 4595.9/11

+ sign 2009.542 $\pm$ 0.355  $\chi^2$ /NDF: 944554.8/29

All: 2010.495 $\pm$ 0.250  $\chi^2$ /NDF: 1959525.4/59

- sign 2011.437 $\pm$ 0.353  $\chi^2$ /NDF: 1014956.3/29

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



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

Left Out: 238.162 $\pm$ 655.530  $\chi^2$ /NDF:21.6/12

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

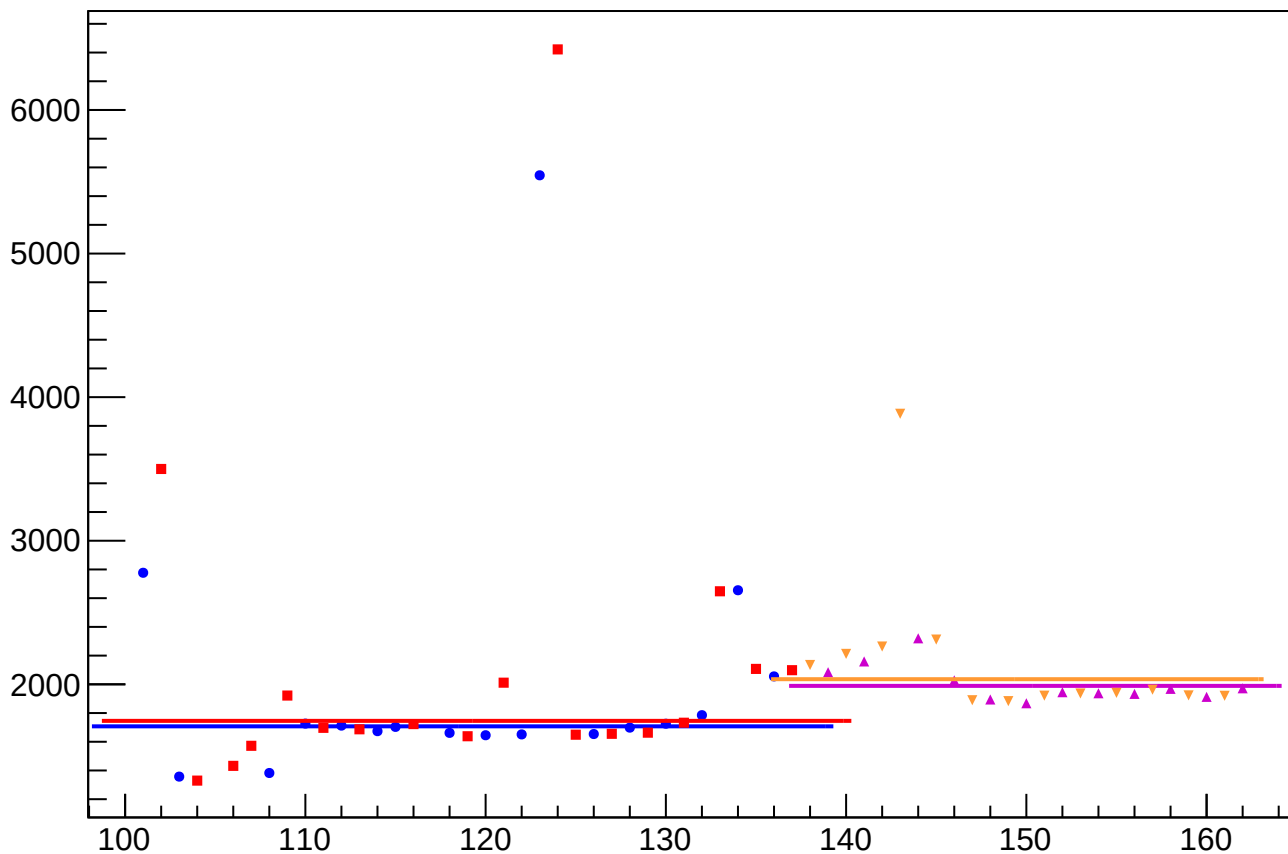
Left In: -3563.938 $\pm$ 636.177  $\chi^2$ /NDF:8.0/11

+ sign 1436.778 $\pm$ 469.889  $\chi^2$ /NDF: 32.5/29

All: -828.895 $\pm$ 330.737  $\chi^2$ /NDF: 111.1/59

- sign -3053.453 $\pm$ 465.606  $\chi^2$ /NDF: 32.5/29

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



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

Left Out: 2035.749 $\pm$ 0.464  $\chi^2$ /NDF: 440693.5/12

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

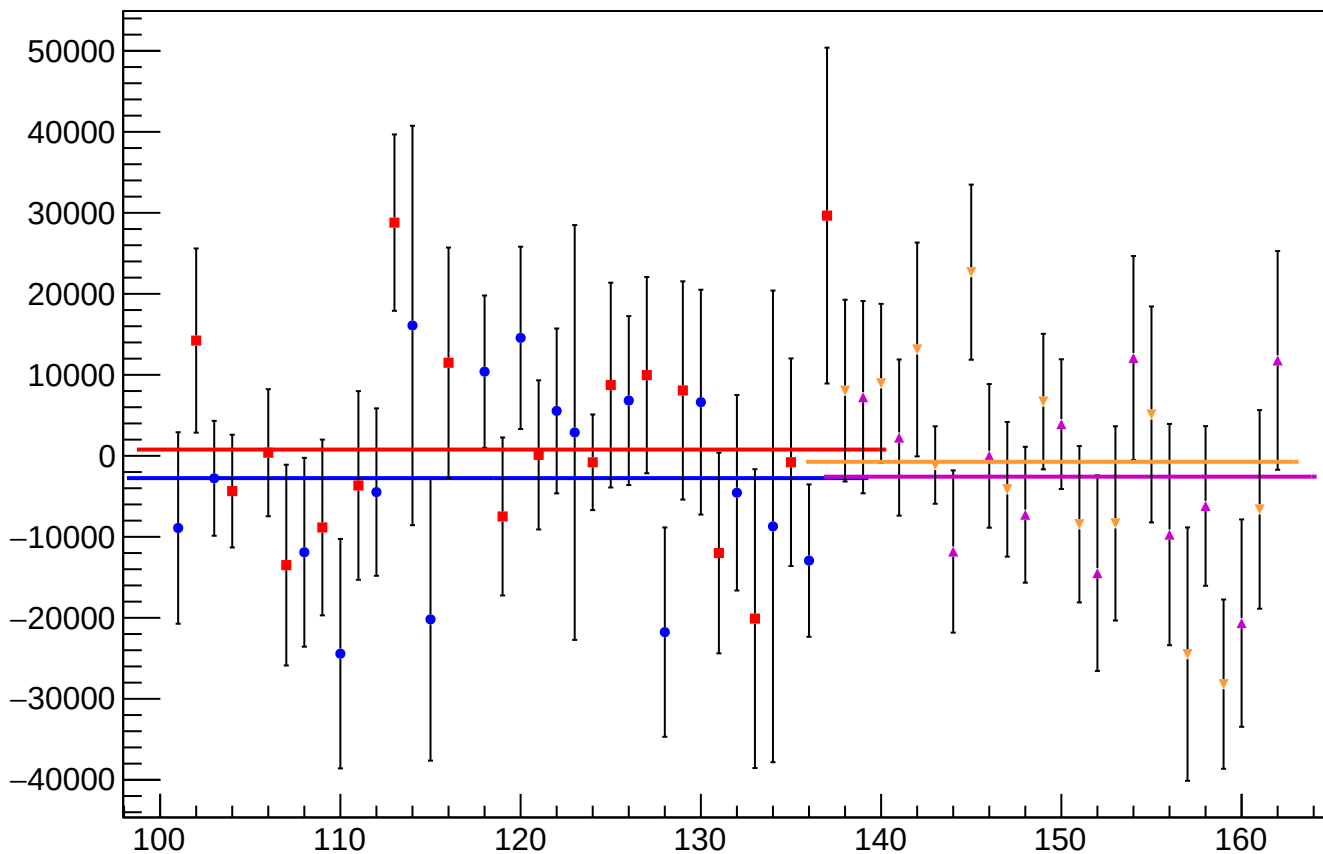
Left In: 1989.258 $\pm$ 0.450  $\chi^2$ /NDF: 66813.0/11

+ sign 1876.104 $\pm$ 0.332  $\chi^2$ /NDF: 1106841.5/29

All: 1876.081 $\pm$ 0.234  $\chi^2$ /NDF: 2009223.2/59

- sign 1876.060 $\pm$ 0.329  $\chi^2$ /NDF: 902381.6/29

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



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

Left Out:  $-736.829 \pm 2596.251$   $\chi^2/\text{NDF}$ : 19.0/12

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

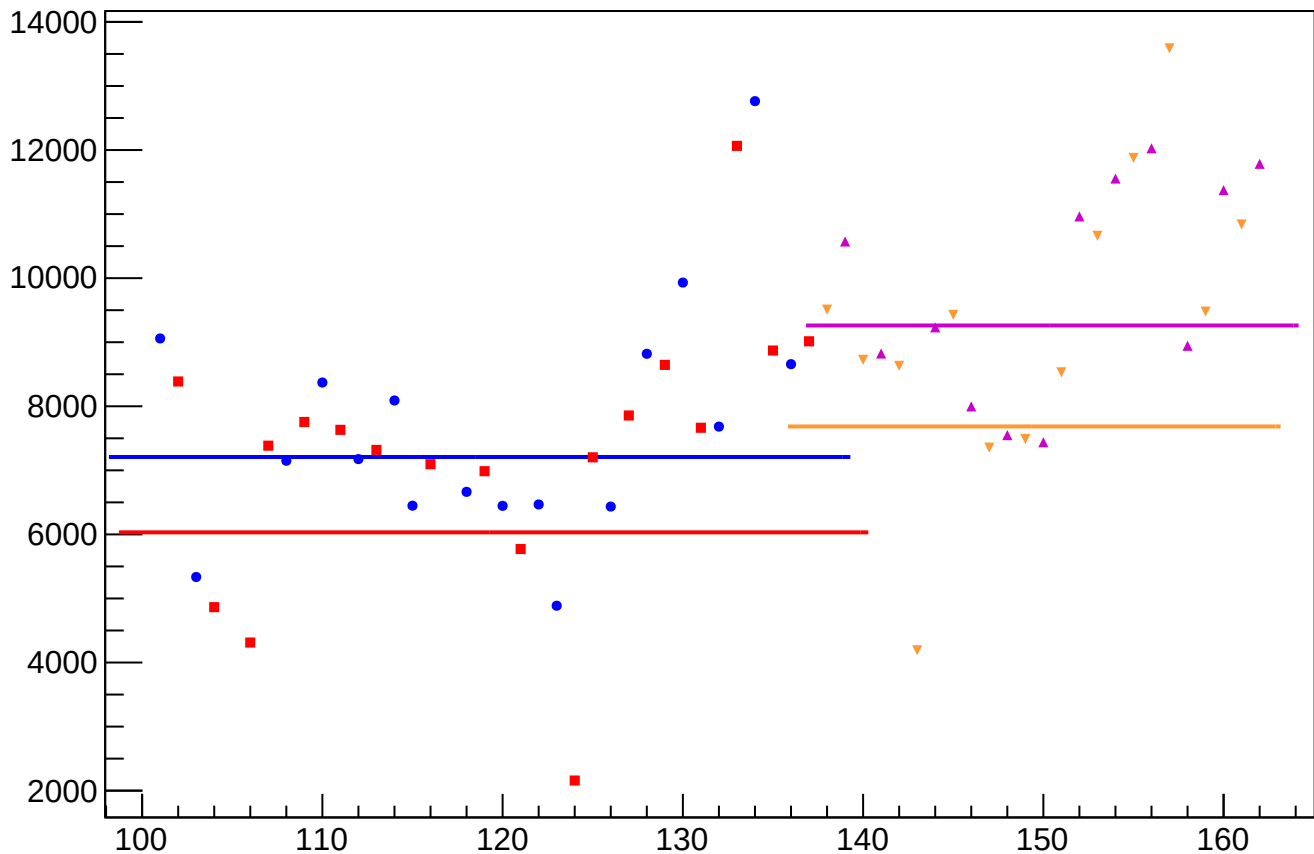
Left In:  $-2571.177 \pm 3004.884$   $\chi^2/\text{NDF}$ : 8.7/11

+ sign  $-1652.816 \pm 1916.952$   $\chi^2/\text{NDF}$ : 33.9/29

All:  $-1097.553 \pm 1347.496$   $\chi^2/\text{NDF}$ : 61.2/59

- sign  $-555.198 \pm 1894.540$   $\chi^2/\text{NDF}$ : 27.2/29

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



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

Left Out: 7684.972 $\pm$ 1.836  $\chi^2$ /NDF: 2022691.3/12

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

Left In: 9261.103 $\pm$ 2.125  $\chi^2$ /NDF: 570468.8/11

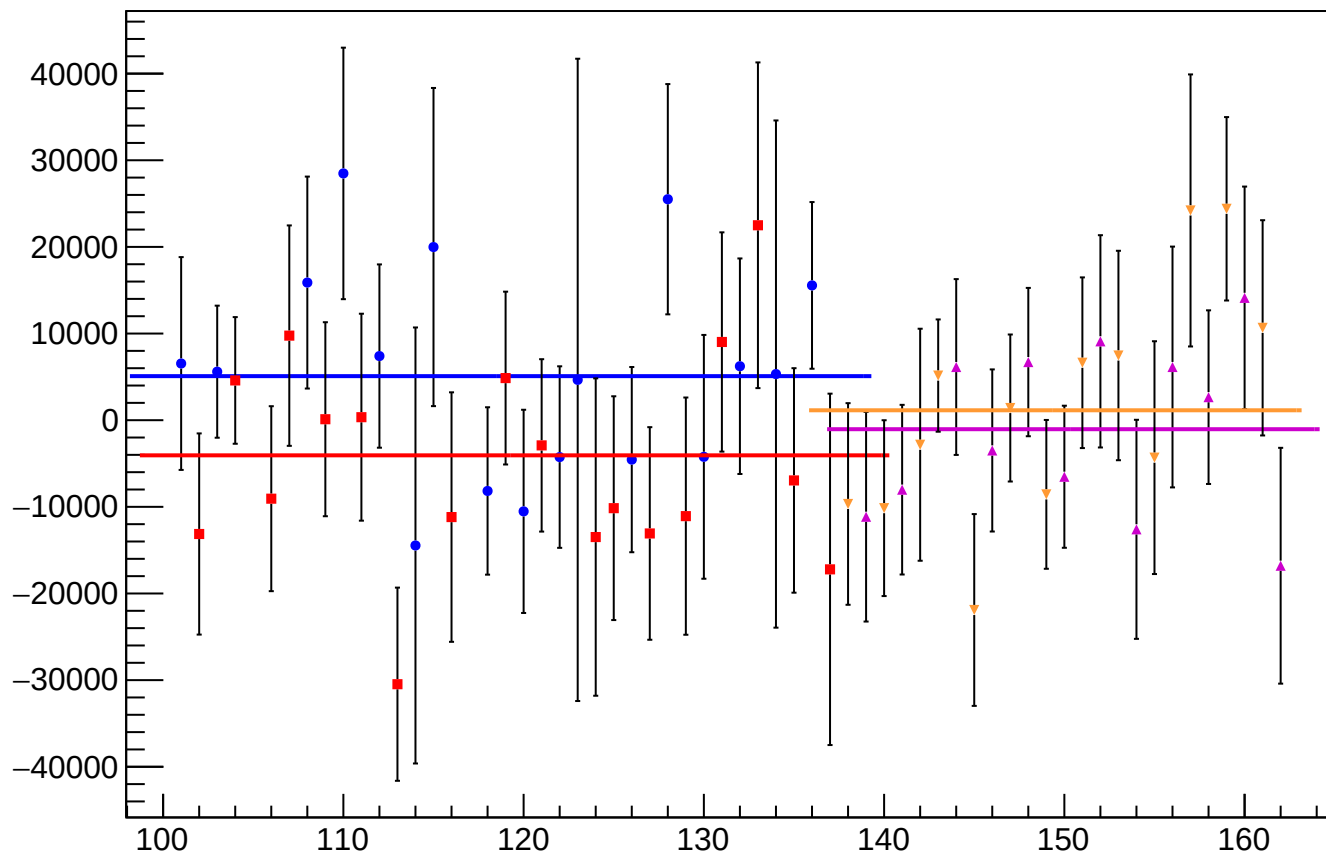
+ sign 7468.187 $\pm$ 1.355  $\chi^2$ /NDF: 2547099.2/29

All: 7391.061 $\pm$ 0.953  $\chi^2$ /NDF: 6312872.3/59

- sign 7315.728 $\pm$ 1.340  $\chi^2$ /NDF: 3759373.3/29



# asym\_at2\_avg\_mean vs Slug



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

Left Out: 1143.895 $\pm$ 2836.693  $\chi^2$ /NDF:16.5/12

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

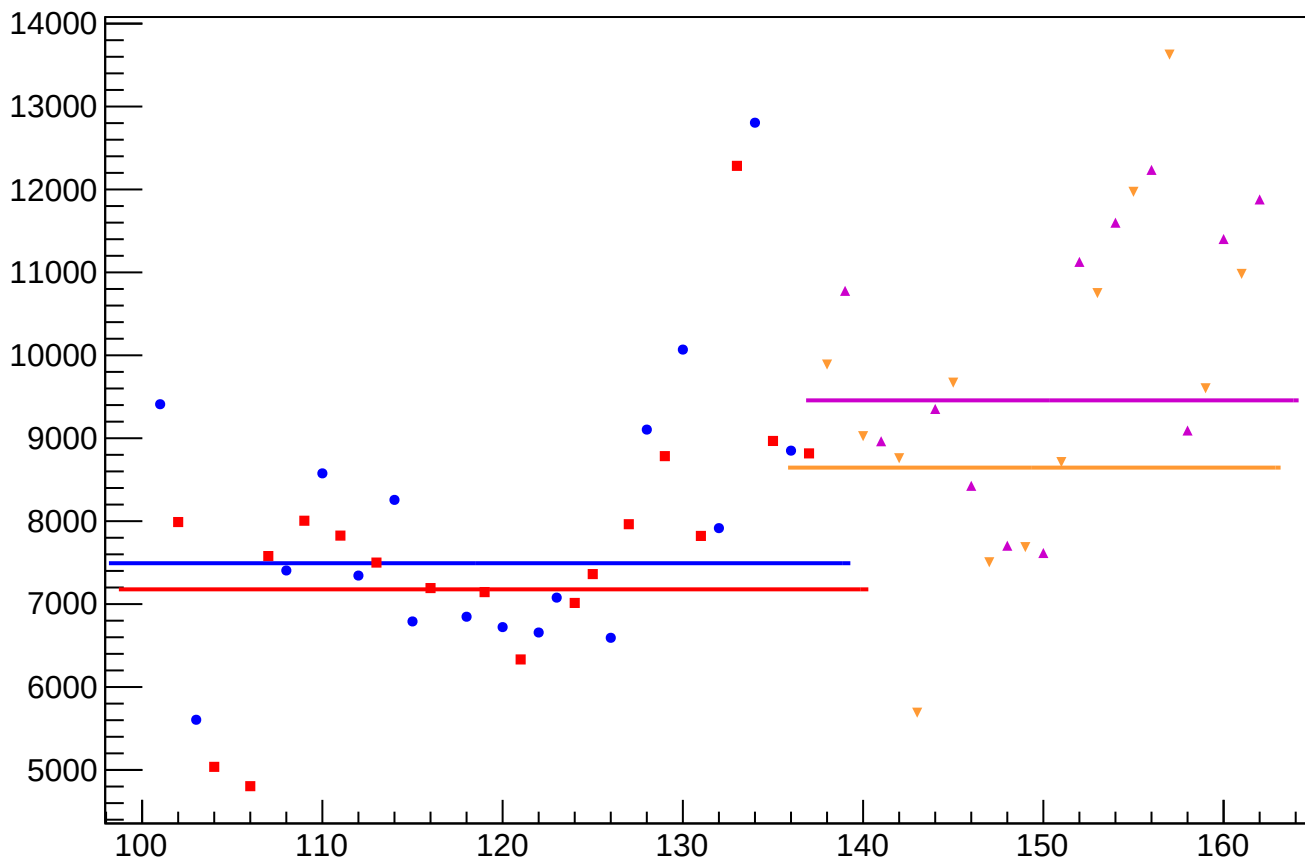
Left In: -1039.344 $\pm$ 3064.904  $\chi^2$ /NDF:7.7/11

+ sign 3033.635 $\pm$ 2046.473  $\chi^2$ /NDF: 31.4/29

All: 203.998 $\pm$ 1454.365  $\chi^2$ /NDF: 58.7/59

- sign -2683.386 $\pm$ 2067.249  $\chi^2$ /NDF: 23.4/29

# asym\_at2\_avg\_rms vs Slug



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

Left Out: 8645.811+/-2.006  $\chi^2$ /NDF:991798.0/12

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

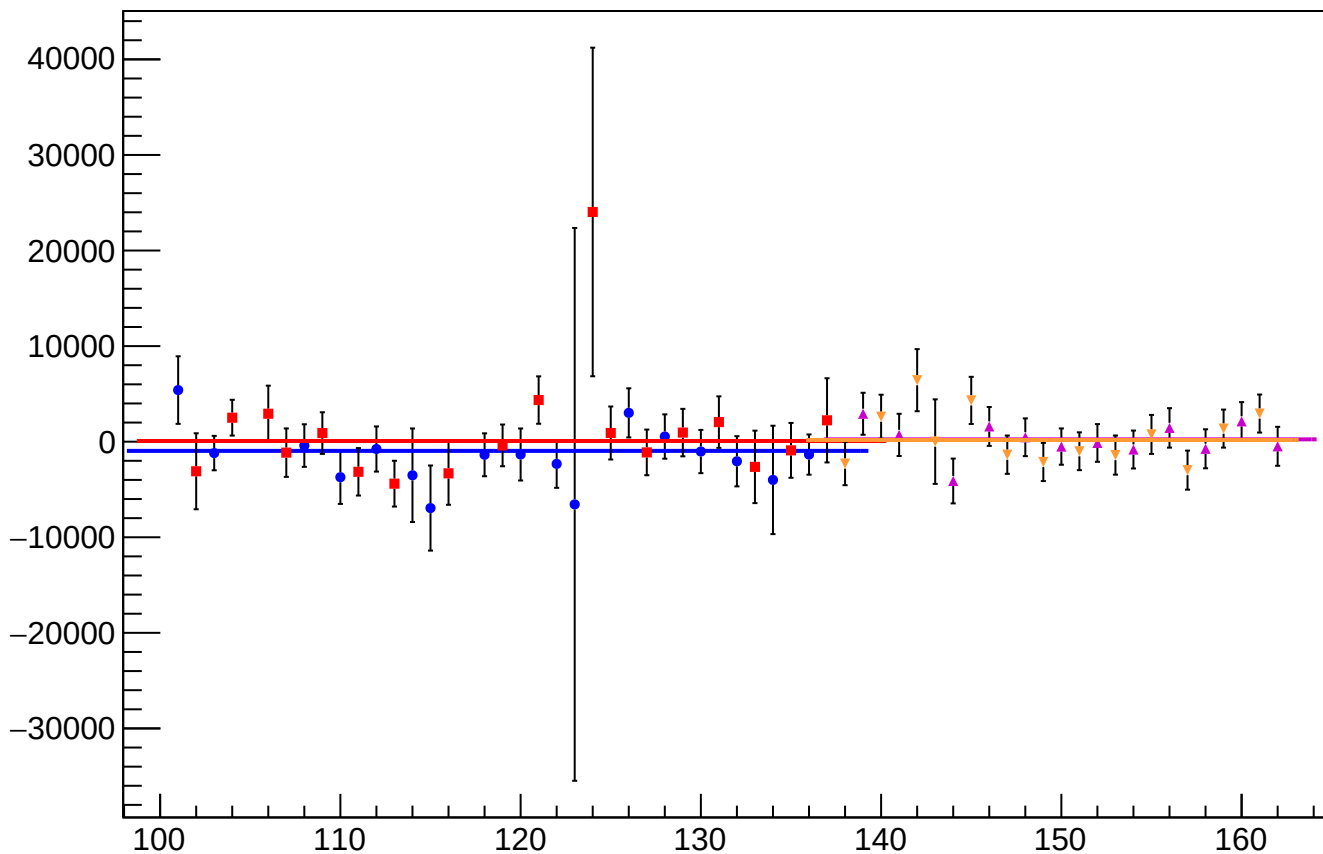
Left In: 9456.781+/-2.167  $\chi^2$ /NDF:524601.0/11

+ sign 8092.938+/-1.447  $\chi^2$ /NDF: 1587306.0/29

All: 8153.086+/-1.028  $\chi^2$ /NDF: 3274096.0/59

- sign 8214.454+/-1.462  $\chi^2$ /NDF: 1683299.5/29

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



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

Left Out: 173.979 $\pm$ 611.529  $\chi^2$ /NDF: 16.5/12

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

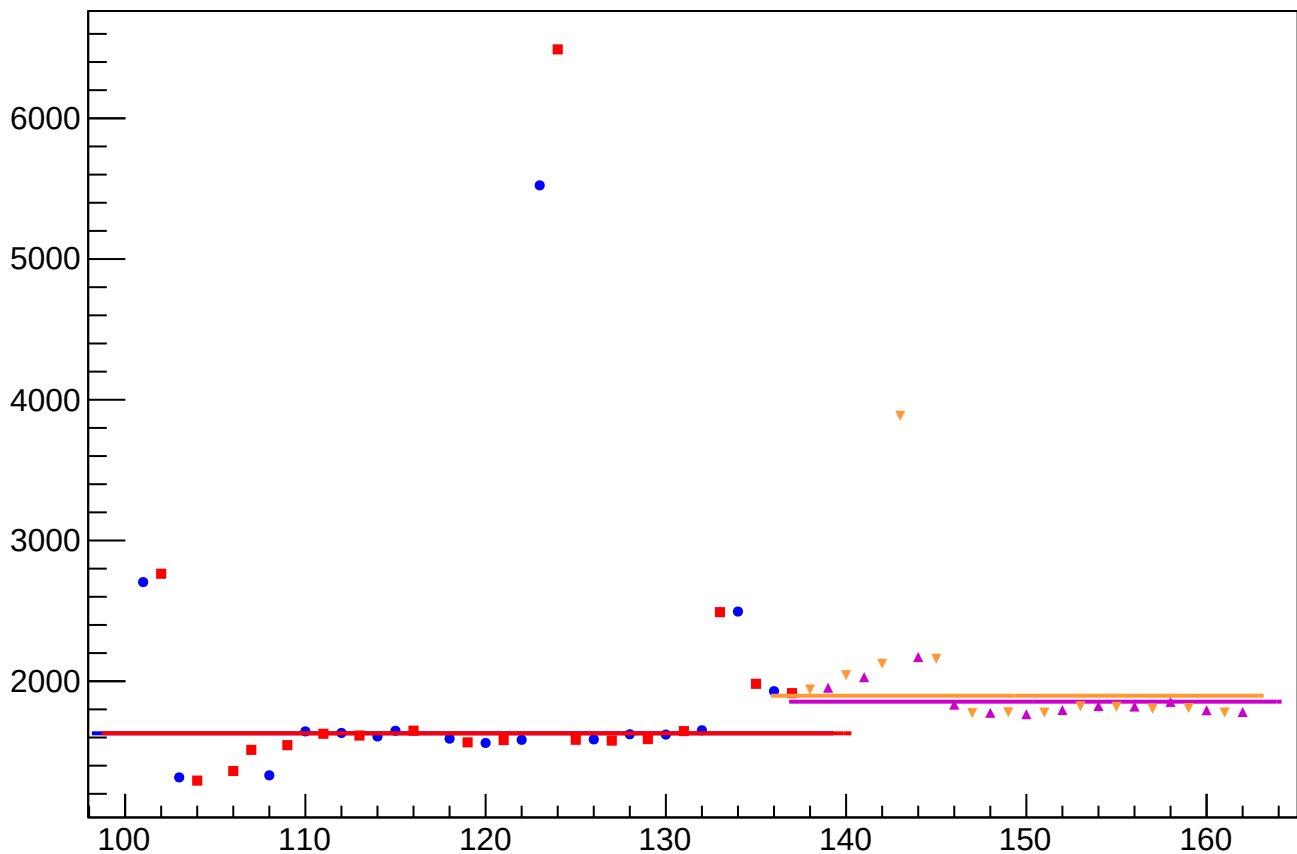
Left In: 243.914 $\pm$ 593.049  $\chi^2$ /NDF: 7.5/11

+ sign -365.766 $\pm$ 443.132  $\chi^2$ /NDF: 28.2/29

All: -95.195 $\pm$ 309.785  $\chi^2$ /NDF: 53.1/59

- sign 163.429 $\pm$ 433.239  $\chi^2$ /NDF: 24.2/29

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



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

Left Out: 1896.920+/-0.432     $\chi^2/\text{NDF}$ : 488881.9/12

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

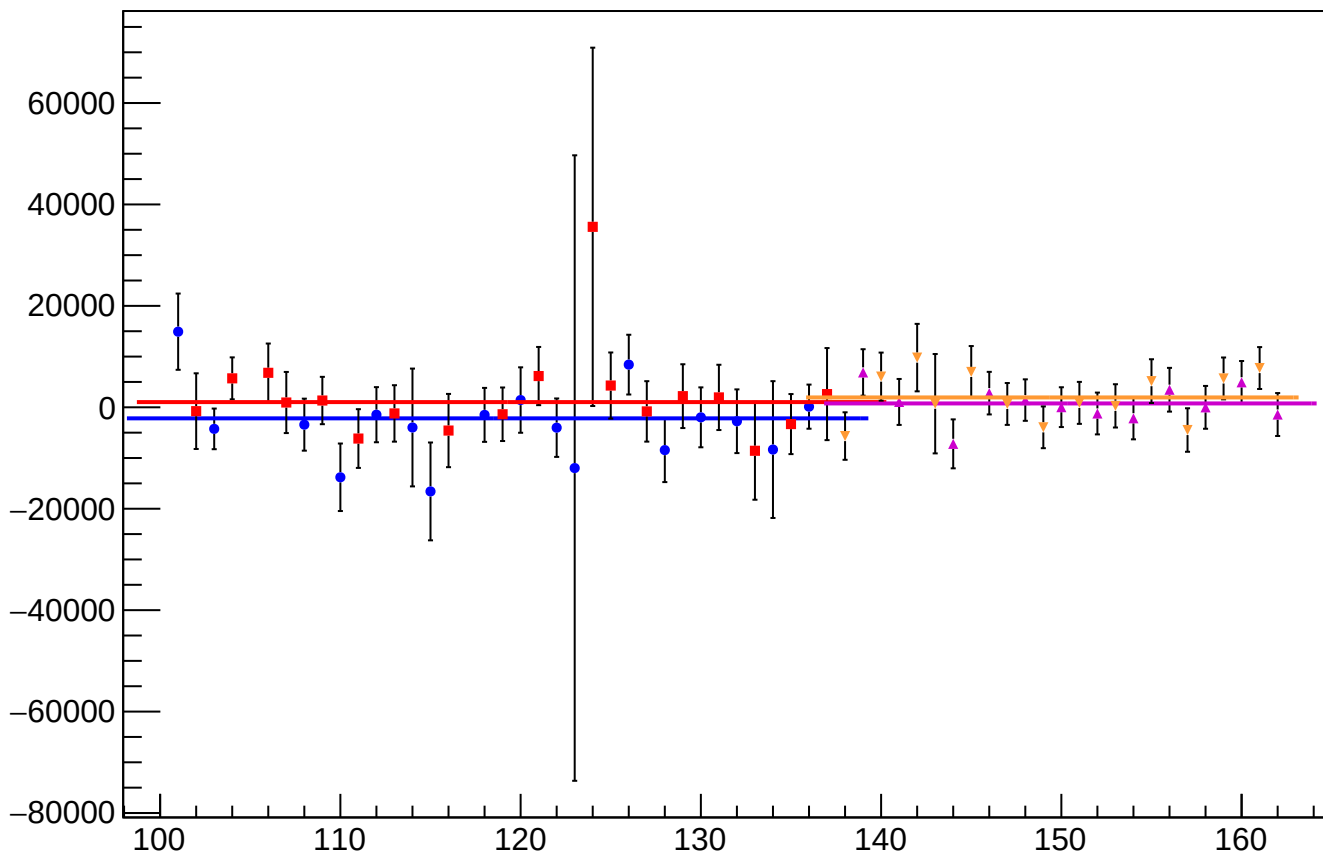
Left In: 1854.762+/-0.419     $\chi^2/\text{NDF}$ : 68195.2/11

+ sign 1770.135+/-0.313     $\chi^2/\text{NDF}$ : 1078051.5/29

All: 1759.800+/-0.219     $\chi^2/\text{NDF}$ : 1839865.5/59

- sign 1749.921+/-0.306     $\chi^2/\text{NDF}$ : 759686.2/29

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



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

Left Out:  $1944.257 \pm 1271.985$   $\chi^2/\text{NDF}$ : 13.7/12

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

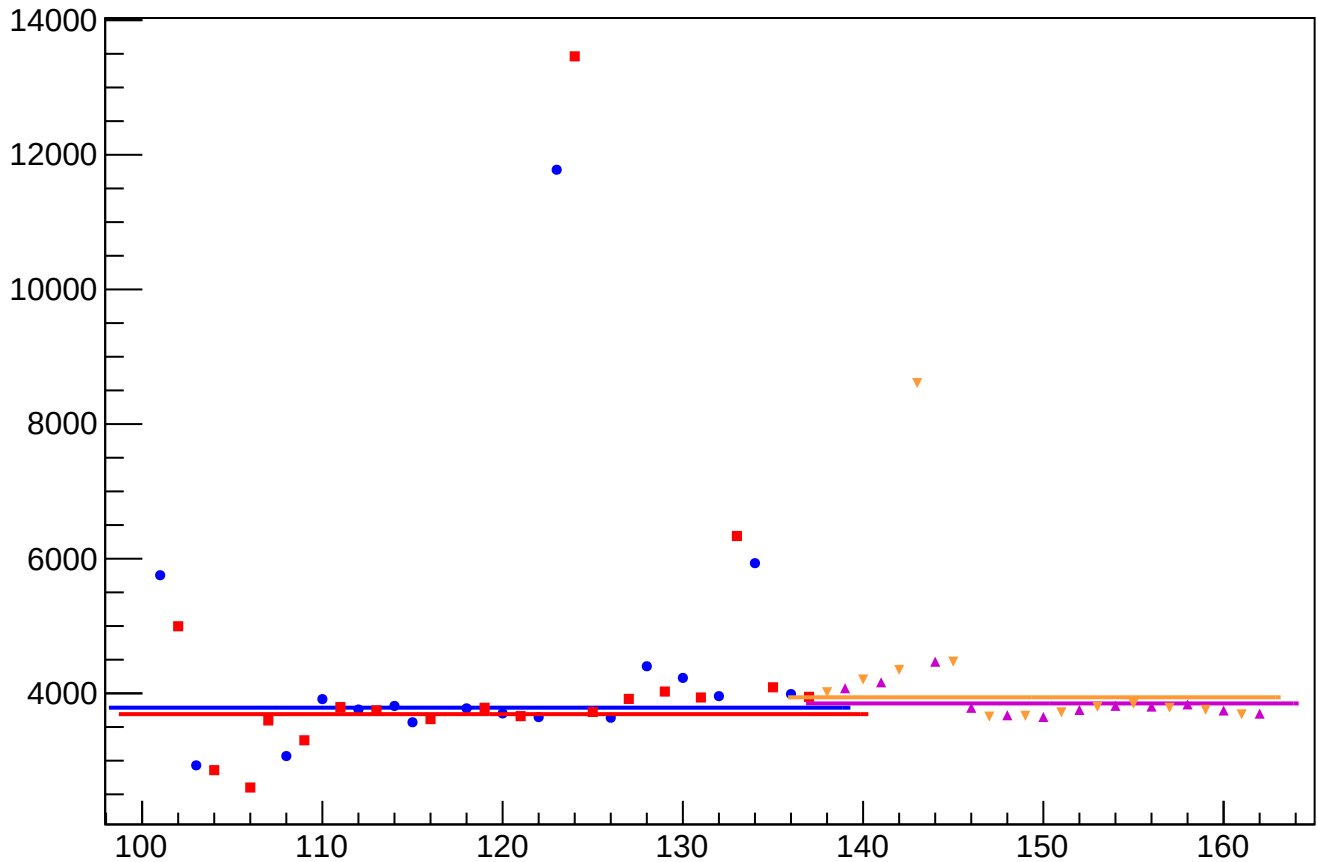
Left In:  $762.088 \pm 1230.870$   $\chi^2/\text{NDF}$ : 7.2/11

+ sign  $210.055 \pm 968.242$   $\chi^2/\text{NDF}$ : 34.1/29

All:  $553.020 \pm 673.066$   $\chi^2/\text{NDF}$ : 50.2/59

- sign  $873.715 \pm 936.280$   $\chi^2/\text{NDF}$ : 15.8/29

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



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

Left Out: 3941.427+/-0.899  $\chi^2/\text{NDF}$ : 531615.2/12

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

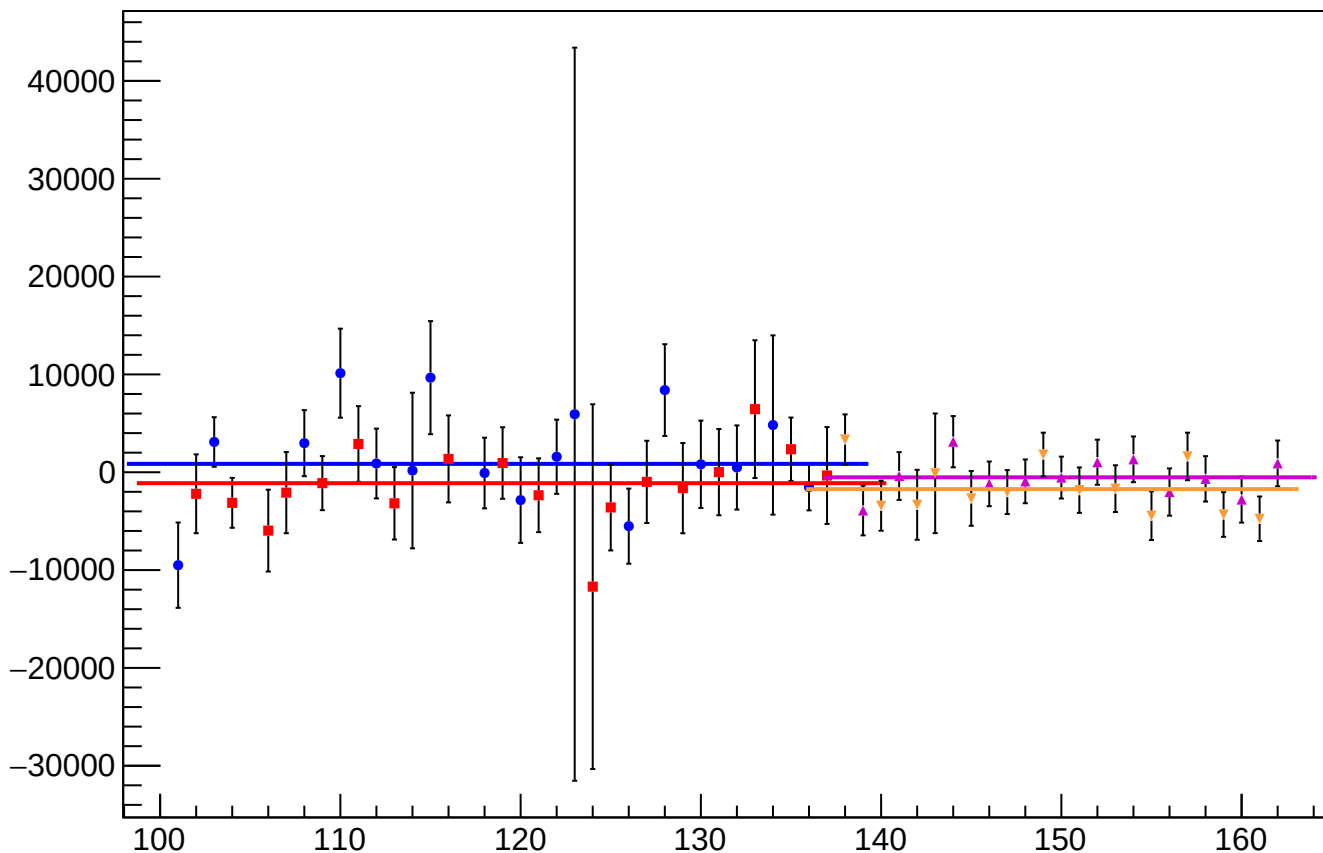
Left In: 3850.241+/-0.870  $\chi^2/\text{NDF}$ : 62159.0/11

+ sign 3876.607+/-0.685  $\chi^2/\text{NDF}$ : 936615.6/29

All: 3828.357+/-0.476  $\chi^2/\text{NDF}$ : 1577605.0/59

- sign 3783.241+/-0.662  $\chi^2/\text{NDF}$ : 631378.8/29

# asym\_at2\_dd\_mean vs Slug



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

Left Out:  $-1726.384 \pm 704.788$   $\chi^2/\text{NDF}$ : 13.4/12

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

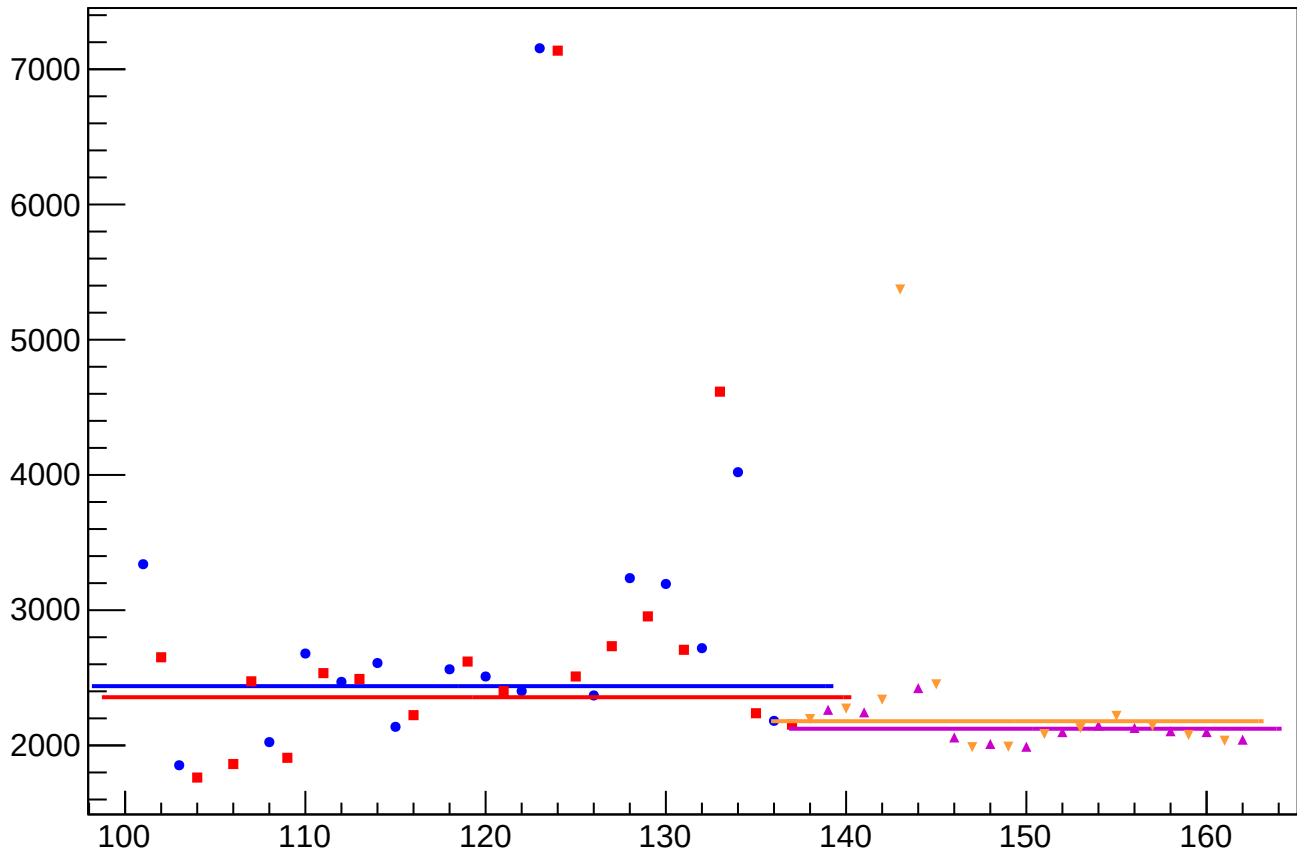
Left In:  $-517.229 \pm 678.688$   $\chi^2/\text{NDF}$ : 6.6/11

+ sign  $-827.700 \pm 569.101$   $\chi^2/\text{NDF}$ : 38.8/29

All:  $-775.243 \pm 394.613$   $\chi^2/\text{NDF}$ : 52.9/59

- sign  $-726.665 \pm 547.650$   $\chi^2/\text{NDF}$ : 14.1/29

# asym\_at2\_dd\_rms vs Slug



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

Left Out: 2179.068+/-0.498  $\chi^2/\text{NDF}$ : 616718.1/12

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

Left In: 2123.355+/-0.480  $\chi^2/\text{NDF}$ : 54940.2/11

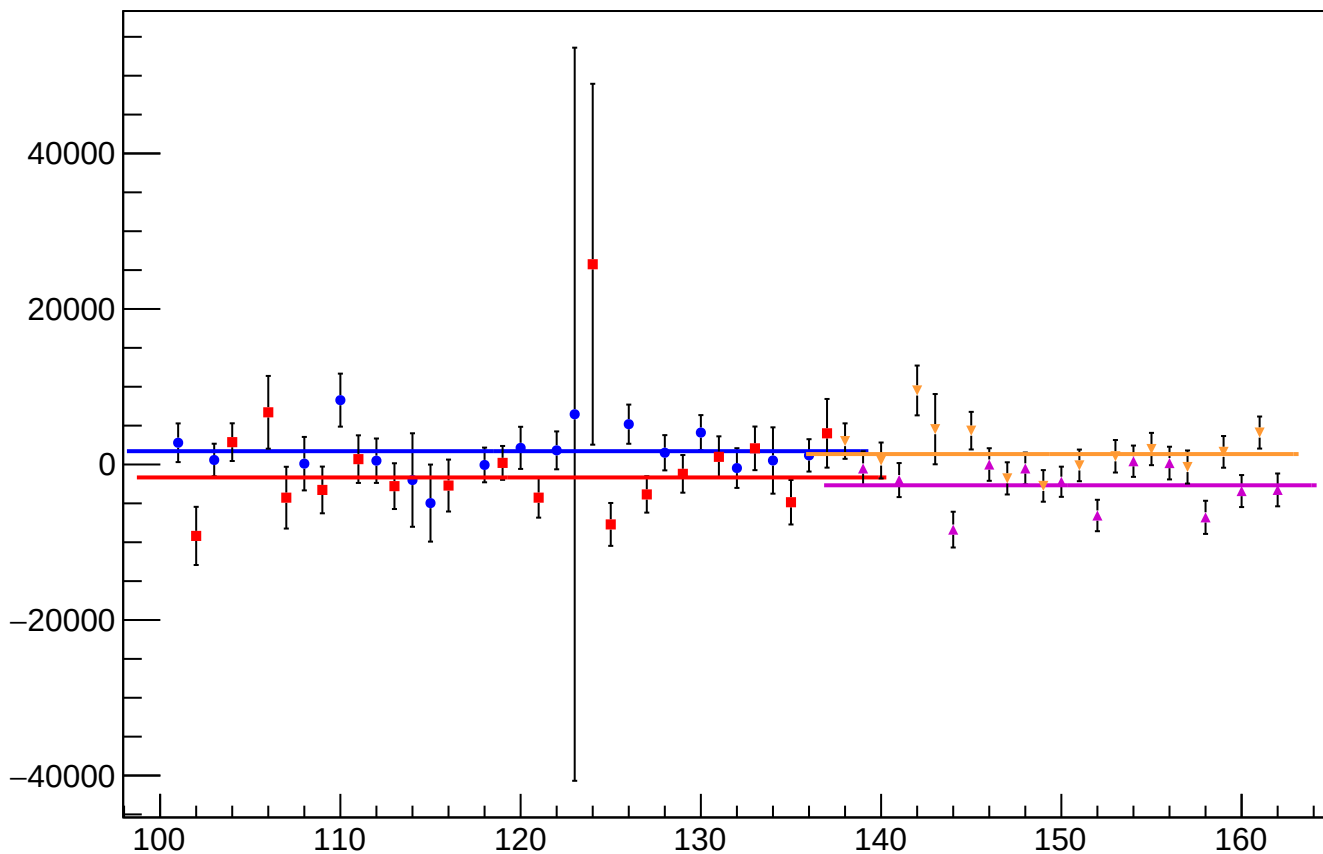
+ sign 2269.267+/-0.402  $\chi^2/\text{NDF}$ : 1187579.1/29

All: 2235.723+/-0.279  $\chi^2/\text{NDF}$ : 1967307.6/59

- sign 2204.660+/-0.387  $\chi^2/\text{NDF}$ : 766345.5/29



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



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

Left Out: 1340.387+/-623.474  $\chi^2/\text{NDF}$ : 18.6/12

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

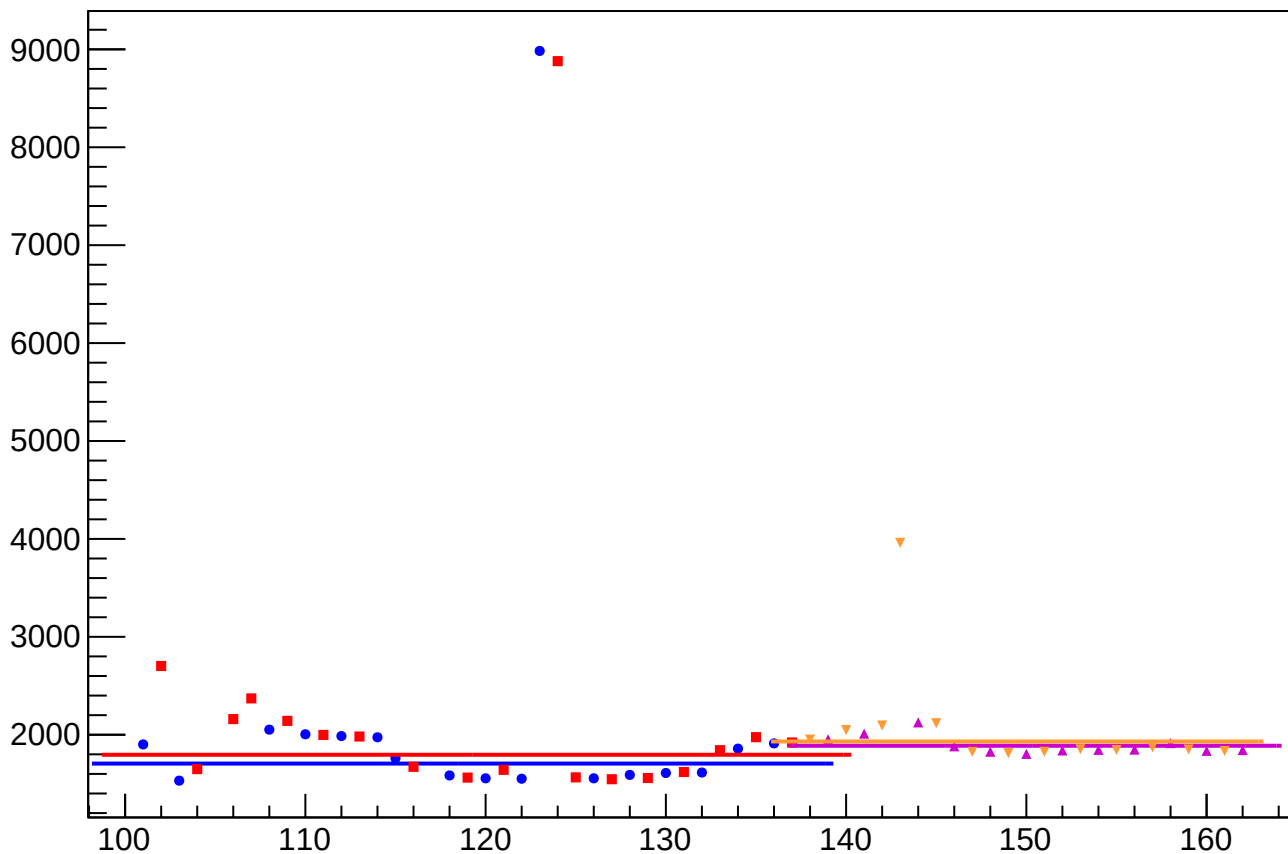
Left In: -2675.088+/-604.593  $\chi^2/\text{NDF}$ : 21.9/11

+ sign 1513.896+/-455.521  $\chi^2/\text{NDF}$ : 30.2/29

All: -359.964+/-322.394  $\chi^2/\text{NDF}$ : 114.0/59

- sign -2240.631+/-456.348  $\chi^2/\text{NDF}$ : 49.9/29

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



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

Left Out: 1931.252+/-0.441  $\chi^2/\text{NDF}$ : 458131.3/12

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

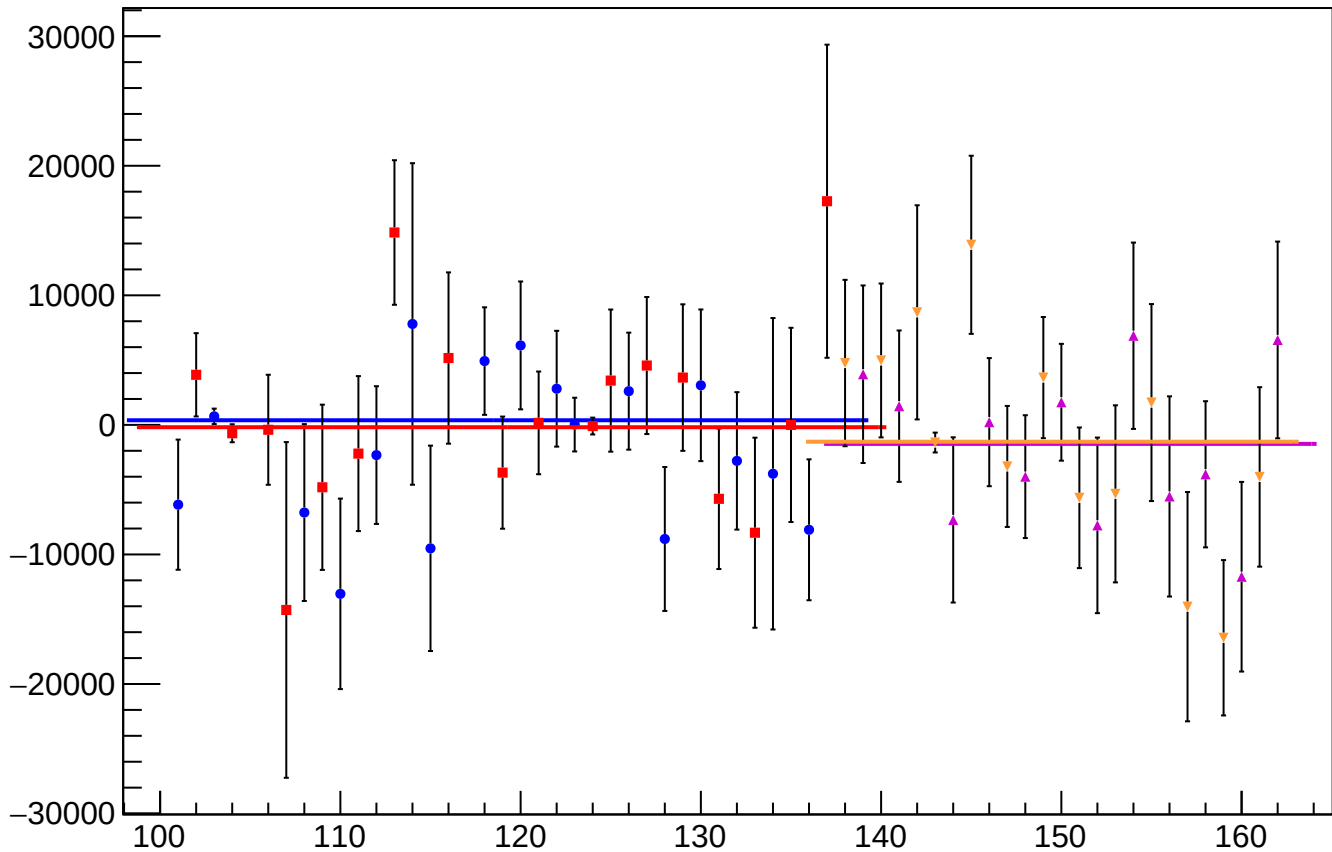
Left In: 1887.491+/-0.428  $\chi^2/\text{NDF}$ : 40287.8/11

+ sign 1826.065+/-0.322  $\chi^2/\text{NDF}$ : 774415.5/29

All: 1836.944+/-0.228  $\chi^2/\text{NDF}$ : 1355732.2/59

- sign 1847.843+/-0.322  $\chi^2/\text{NDF}$ : 579032.9/29

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



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

Left Out: -1297.791+/-703.973  $\chi^2/\text{NDF}$ : 19.4/12

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

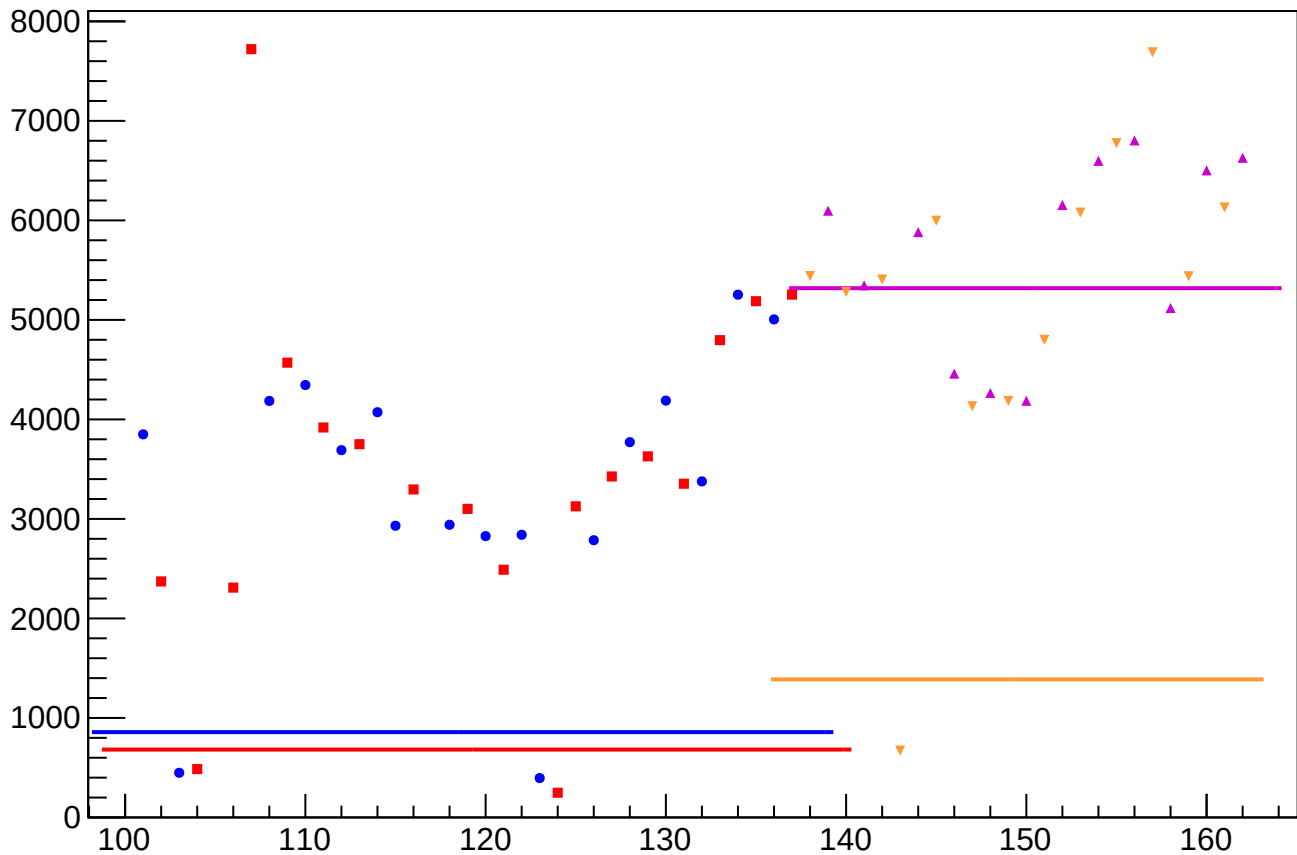
Left In: -1466.188+/-1727.443  $\chi^2/\text{NDF}$ : 8.4/11

+ sign -246.245+/-425.047  $\chi^2/\text{NDF}$ : 40.4/29

All: -252.975+/-303.238  $\chi^2/\text{NDF}$ : 67.8/59

- sign -259.951+/-432.742  $\chi^2/\text{NDF}$ : 27.4/29

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



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

Left Out: 1387.397+/-0.498  $\chi^2/\text{NDF}$ : 11785514.7/12

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

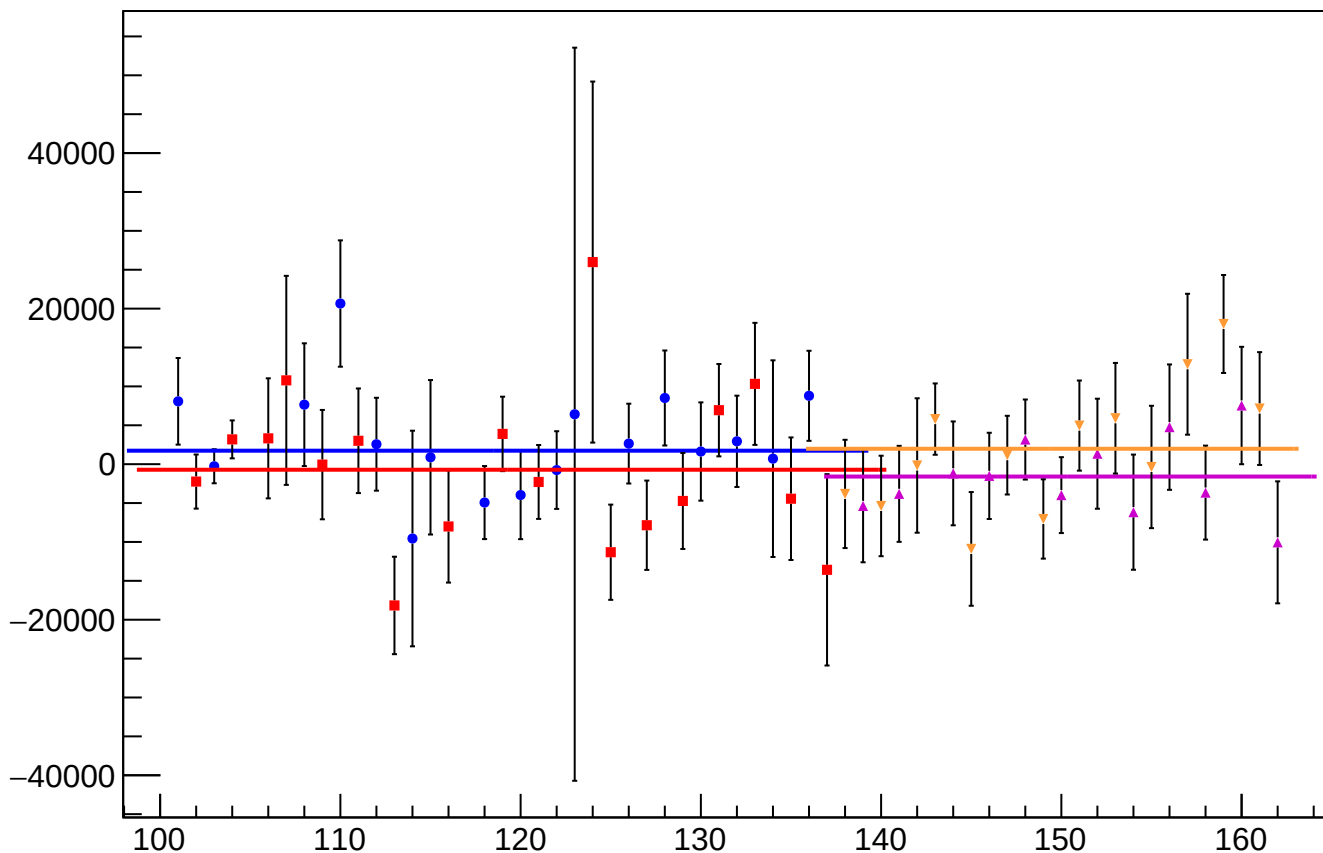
Left In: 5318.650+/-1.221  $\chi^2/\text{NDF}$ : 608681.1/11

+ sign 1050.658+/-0.301  $\chi^2/\text{NDF}$ : 20680929.7/29

All: 1012.566+/-0.214  $\chi^2/\text{NDF}$ : 44204905.8/5

- sign 973.082+/-0.306  $\chi^2/\text{NDF}$ : 23491263.2/29

# asym\_atl\_avg\_mean vs Slug



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

Left Out: 1980.905+/-1757.061  $\chi^2/\text{NDF}$ : 18.1/12

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

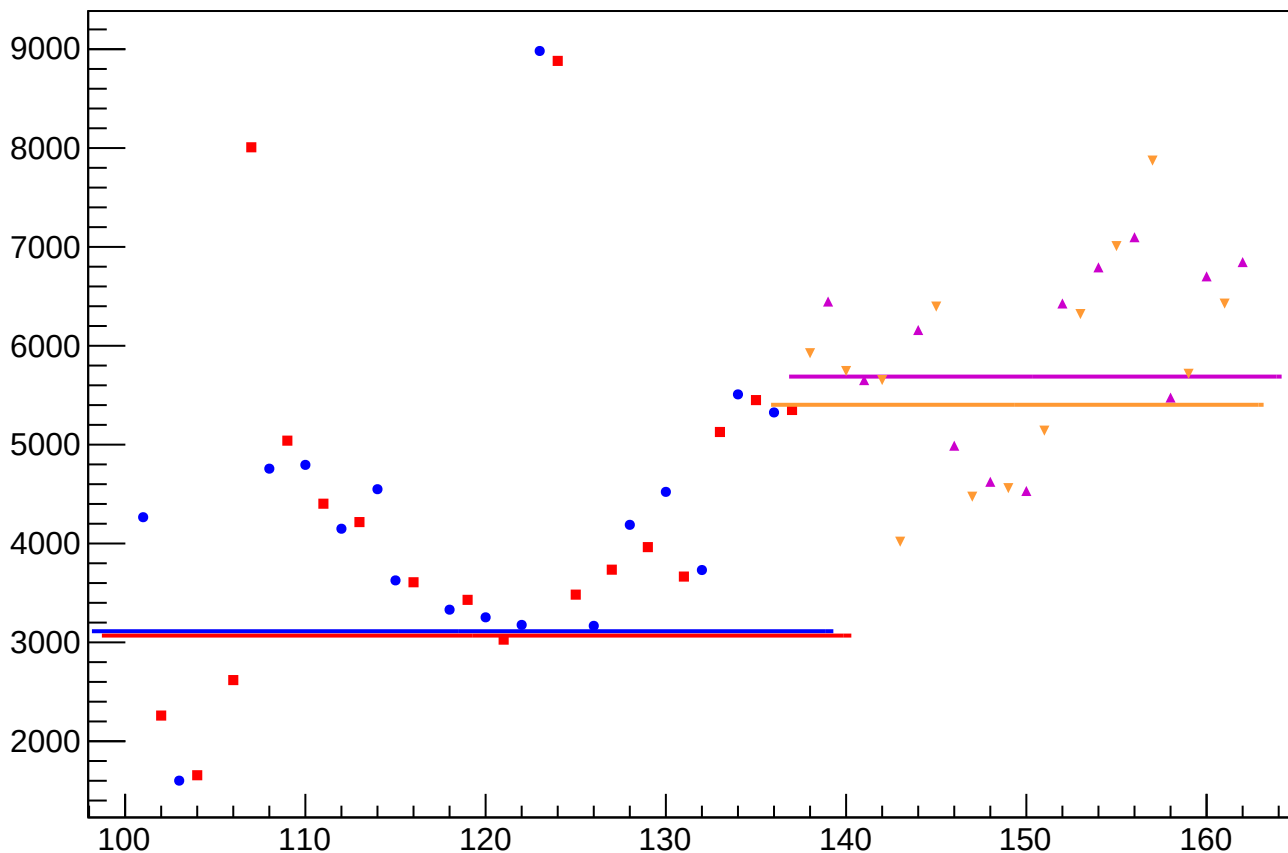
Left In: -1590.875+/-1841.596  $\chi^2/\text{NDF}$ : 5.4/11

+ sign 1821.276+/-1047.447  $\chi^2/\text{NDF}$ : 33.0/29

All: 421.476+/-743.996  $\chi^2/\text{NDF}$ : 67.3/59

- sign -1003.850+/-1056.954  $\chi^2/\text{NDF}$ : 30.7/29

# asym\_atl\_avg\_rms vs Slug



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

Left Out: 5403.155 $\pm$ 1.242  $\chi^2$ /NDF: 674212.4/12

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

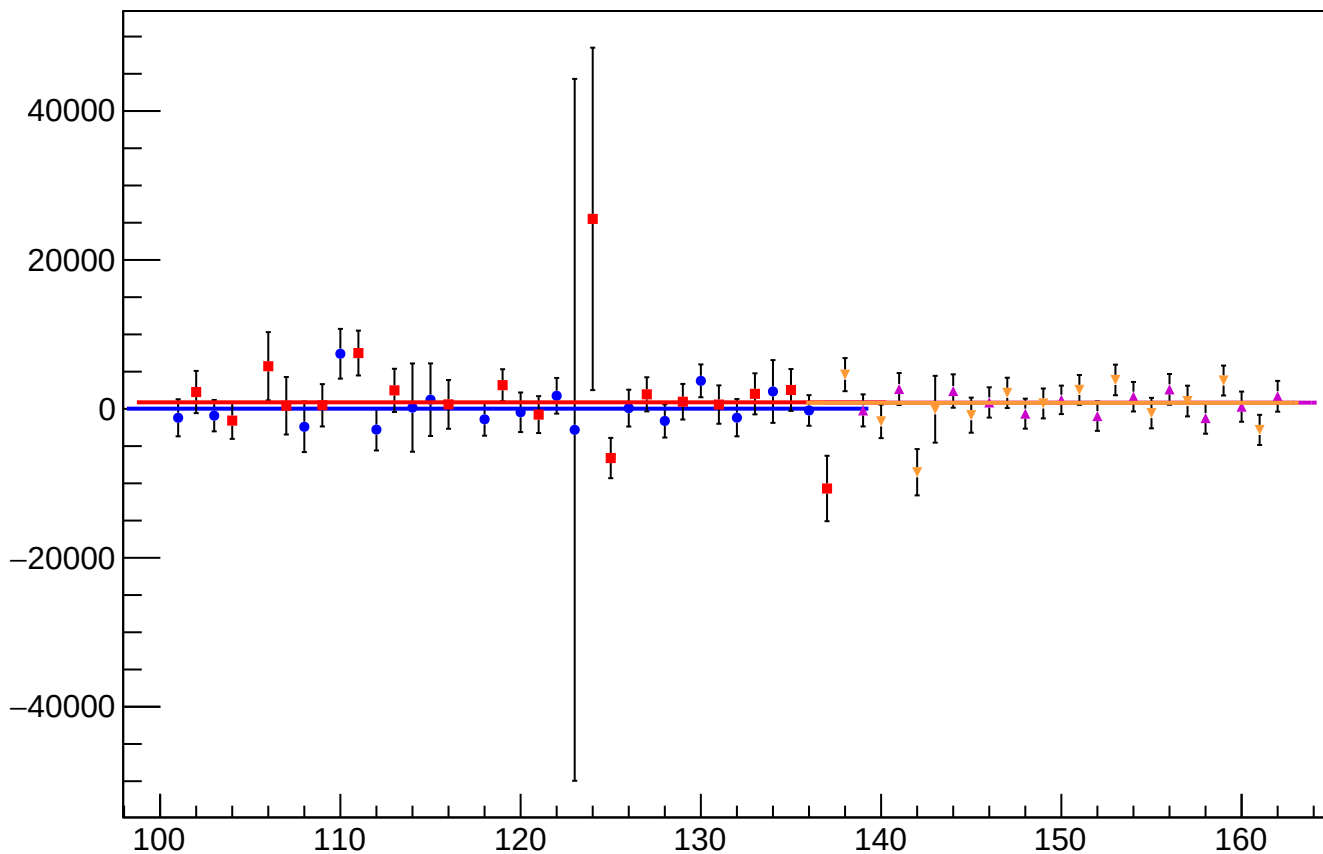
Left In: 5688.319 $\pm$ 1.302  $\chi^2$ /NDF: 471511.9/11

+ sign 3926.663 $\pm$ 0.741  $\chi^2$ /NDF: 4749569.2/29

All: 3920.652 $\pm$ 0.523  $\chi^2$ /NDF: 9962923.0/59

- sign 3914.651 $\pm$ 0.740  $\chi^2$ /NDF: 5213222.1/29

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



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

Left Out: 818.987+/-611.558  $\chi^2/\text{NDF}$ : 23.0/12

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

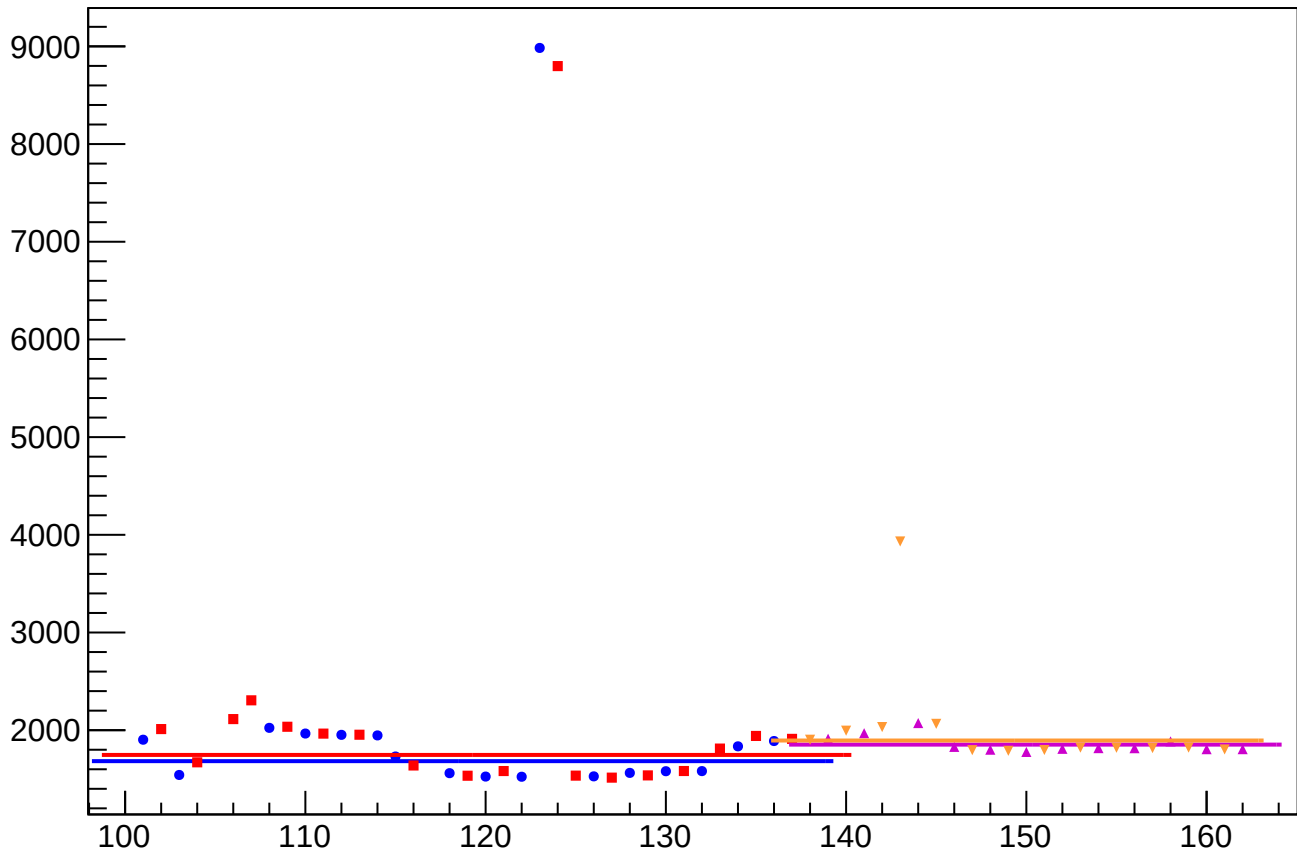
Left In: 834.870+/-593.254  $\chi^2/\text{NDF}$ : 5.0/11

+ sign 453.141+/-448.084  $\chi^2/\text{NDF}$ : 35.6/29

All: 655.595+/-315.925  $\chi^2/\text{NDF}$ : 66.6/59

- sign 855.721+/-445.499  $\chi^2/\text{NDF}$ : 30.6/29

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



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

Left Out:  $1894.317 \pm 0.432$   $\chi^2/\text{NDF}: 460461.1/12$

+ sign  $1796.500 \pm 0.317$   $\chi^2/\text{NDF}: 766788.8/29$

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

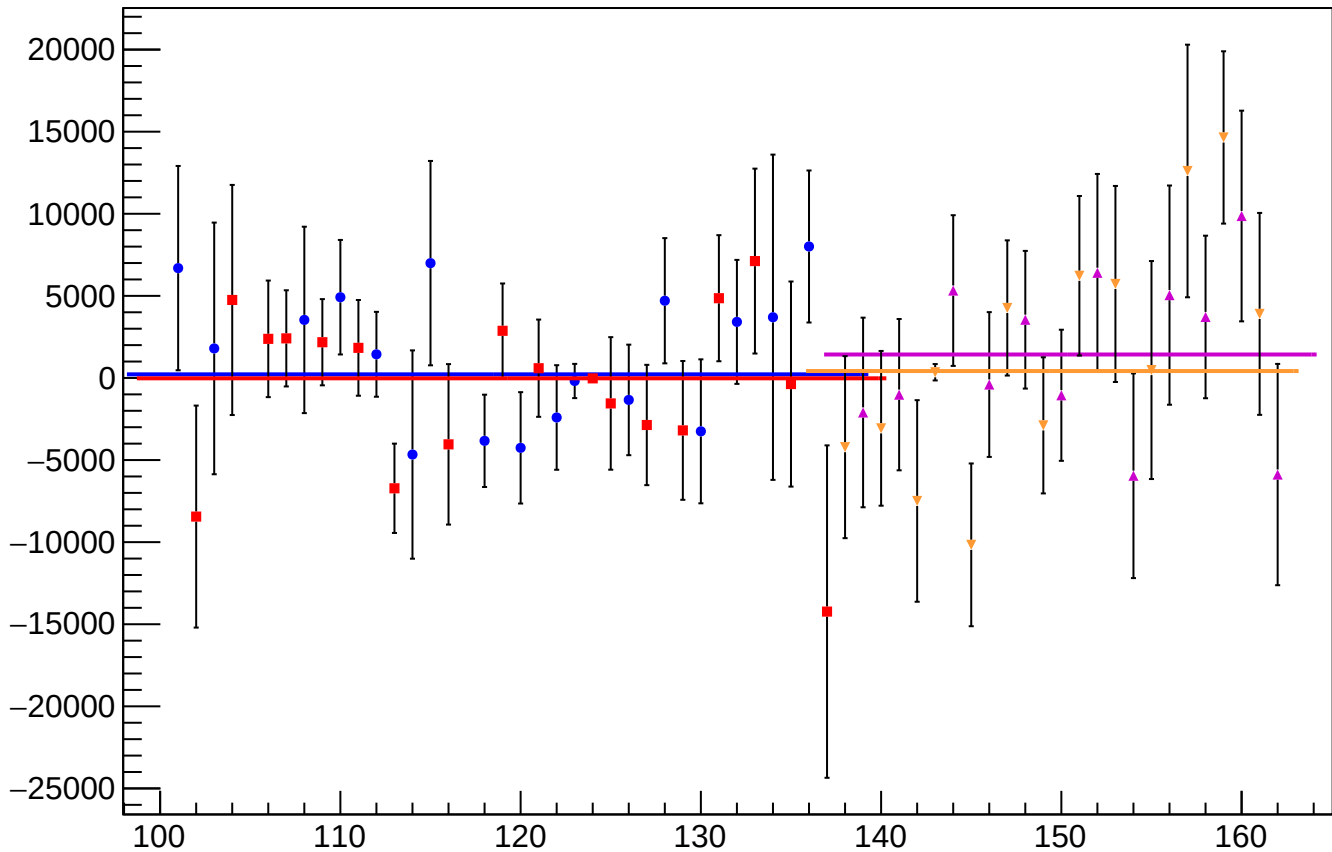
All:  $1801.410 \pm 0.223$   $\chi^2/\text{NDF}: 1238025.2/59$

- sign  $1806.254 \pm 0.315$   $\chi^2/\text{NDF}: 470759.3/29$

Left In:  $1852.434 \pm 0.419$   $\chi^2/\text{NDF}: 36315.6/11$



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



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

Left Out: 421.371 $\pm$ 474.245  $\chi^2/\text{NDF}$ : 21.4/12

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

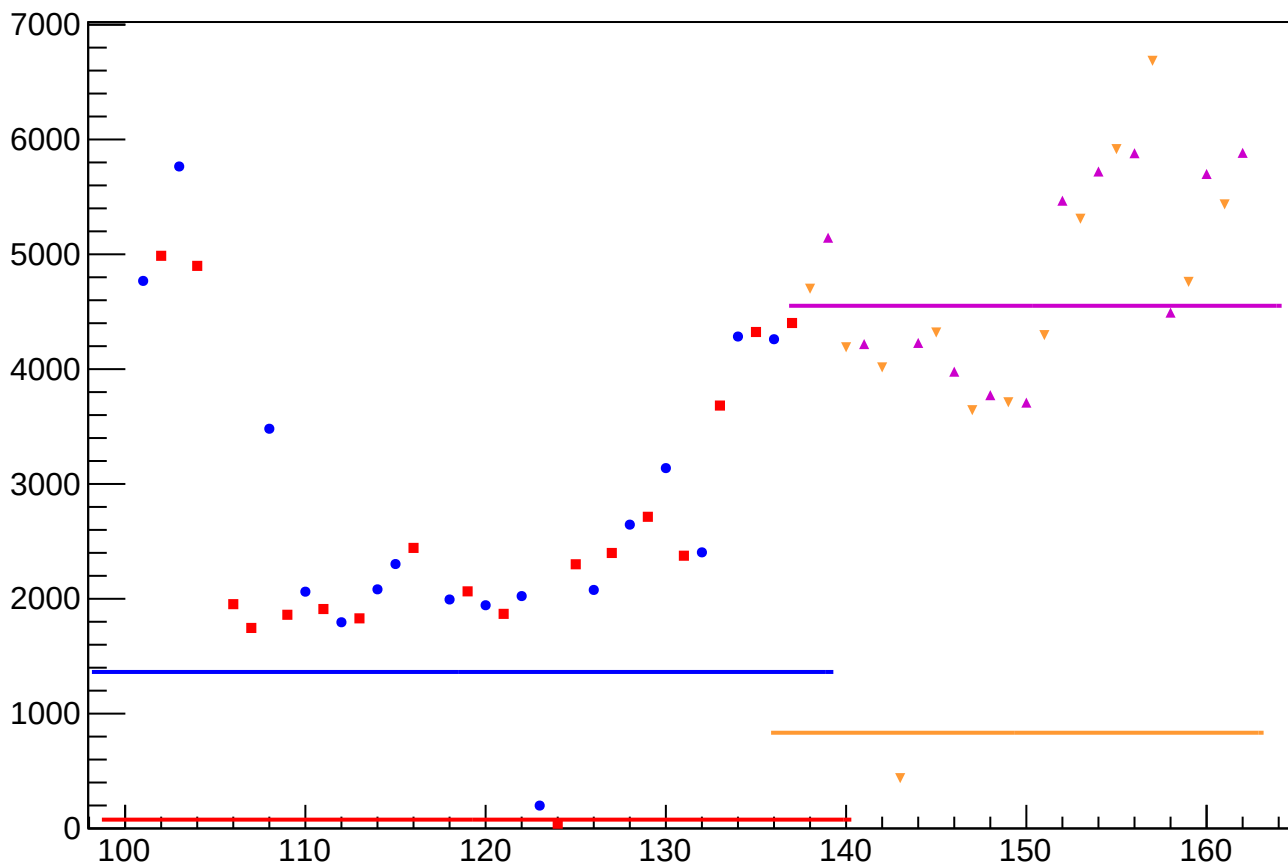
Left In: 1429.064 $\pm$ 1476.882  $\chi^2/\text{NDF}$ : 7.7/11

+ sign 360.491 $\pm$ 396.203  $\chi^2/\text{NDF}$ : 37.3/29

All: 15.158 $\pm$ 109.374  $\chi^2/\text{NDF}$ : 65.3/59

- sign -13.330 $\pm$ 113.796  $\chi^2/\text{NDF}$ : 27.2/29

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



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

Left Out: 833.583 $\pm$ 0.335  $\chi^2$ /NDF:13373889.1/12

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

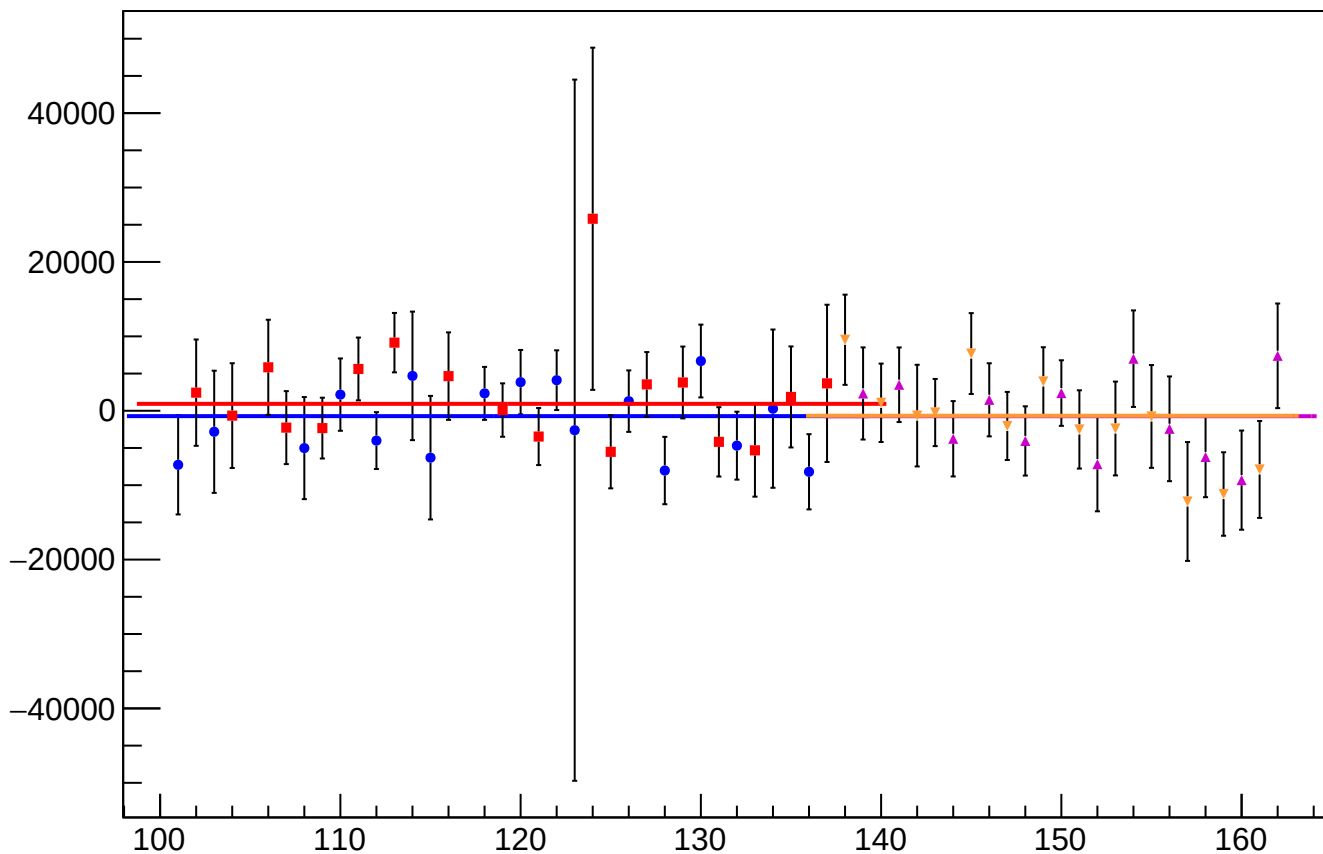
Left In: 4551.717 $\pm$ 1.044  $\chi^2$ /NDF:571707.6/11

+ sign 993.441 $\pm$ 0.280  $\chi^2$ /NDF: 20362097.9/29

All: 171.226 $\pm$ 0.077  $\chi^2$ /NDF: 61624166.6/59

- sign 103.399 $\pm$ 0.080  $\chi^2$ /NDF: 31938317.8/29

# asym\_atl\_dd\_mean vs Slug



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

Left Out:  $-666.651 \pm 1550.515$   $\chi^2/\text{NDF}$ : 13.4/12

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

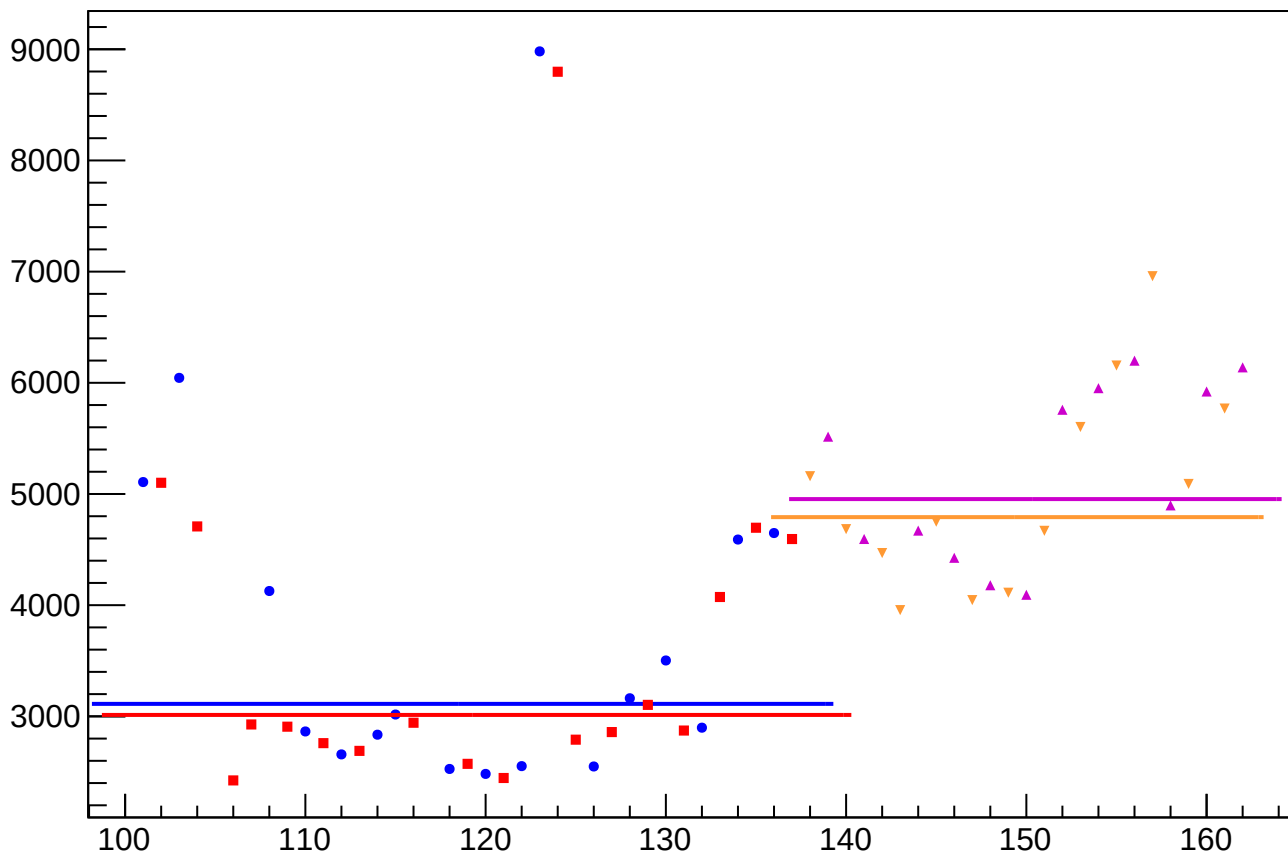
Left In:  $-731.061 \pm 1601.556$   $\chi^2/\text{NDF}$ : 9.1/11

+ sign  $-699.831 \pm 974.331$   $\chi^2/\text{NDF}$ : 28.2/29

All:  $-172.174 \pm 682.923$   $\chi^2/\text{NDF}$ : 53.4/59

- sign  $337.399 \pm 957.488$   $\chi^2/\text{NDF}$ : 24.7/29

# asym\_atl\_dd\_rms vs Slug



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

Left Out: 4791.802+/-1.096  $\chi^2$ /NDF: 488396.8/12

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

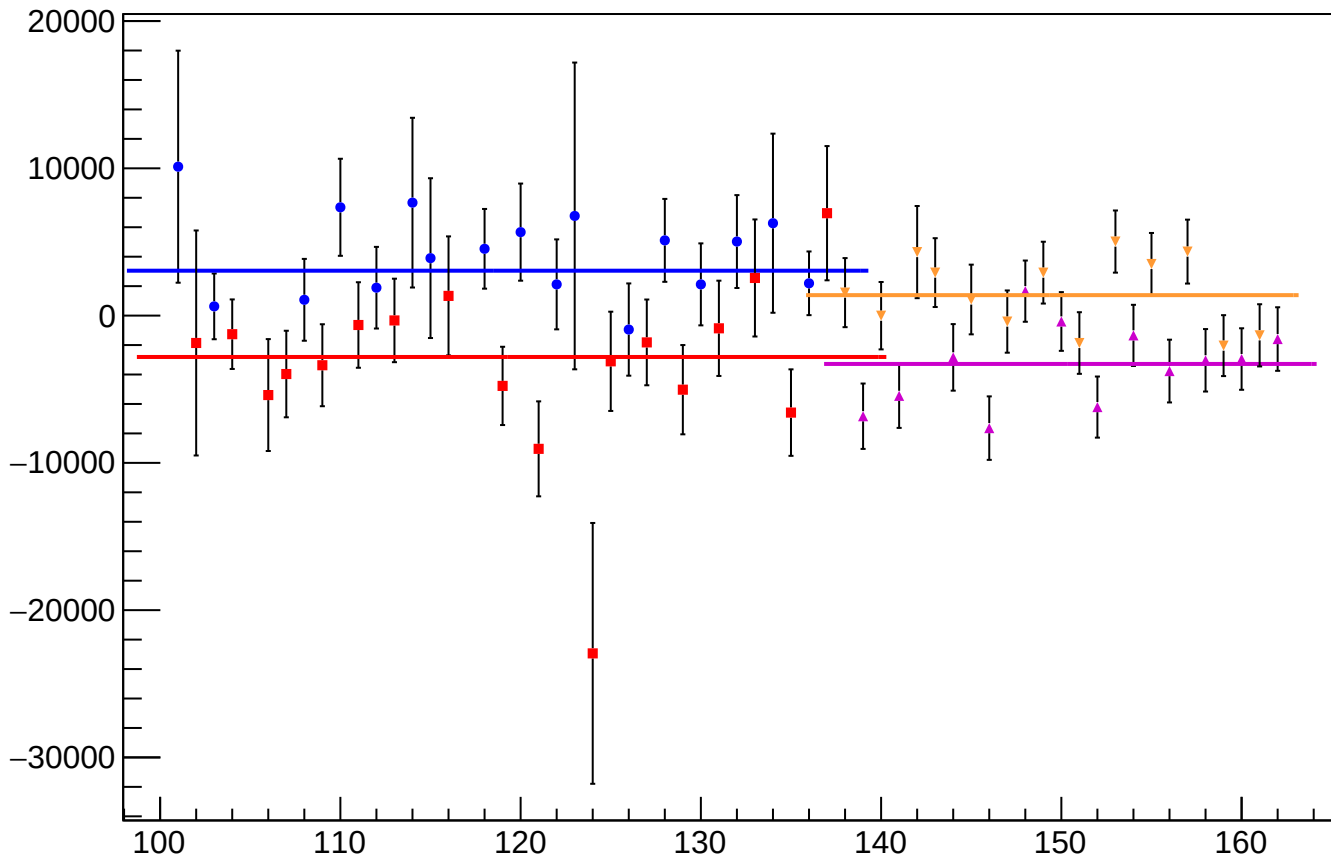
Left In: 4954.165+/-1.132  $\chi^2$ /NDF: 429069.4/11

+ sign 3775.450+/-0.689  $\chi^2$ /NDF: 2866998.6/29

All: 3734.437+/-0.481  $\chi^2$ /NDF: 5982625.2/59

- sign 3695.468+/-0.672  $\chi^2$ /NDF: 3108715.6/29

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



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

Left Out: 1389.258+/-615.904  $\chi^2/\text{NDF}$ : 15.6/12

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

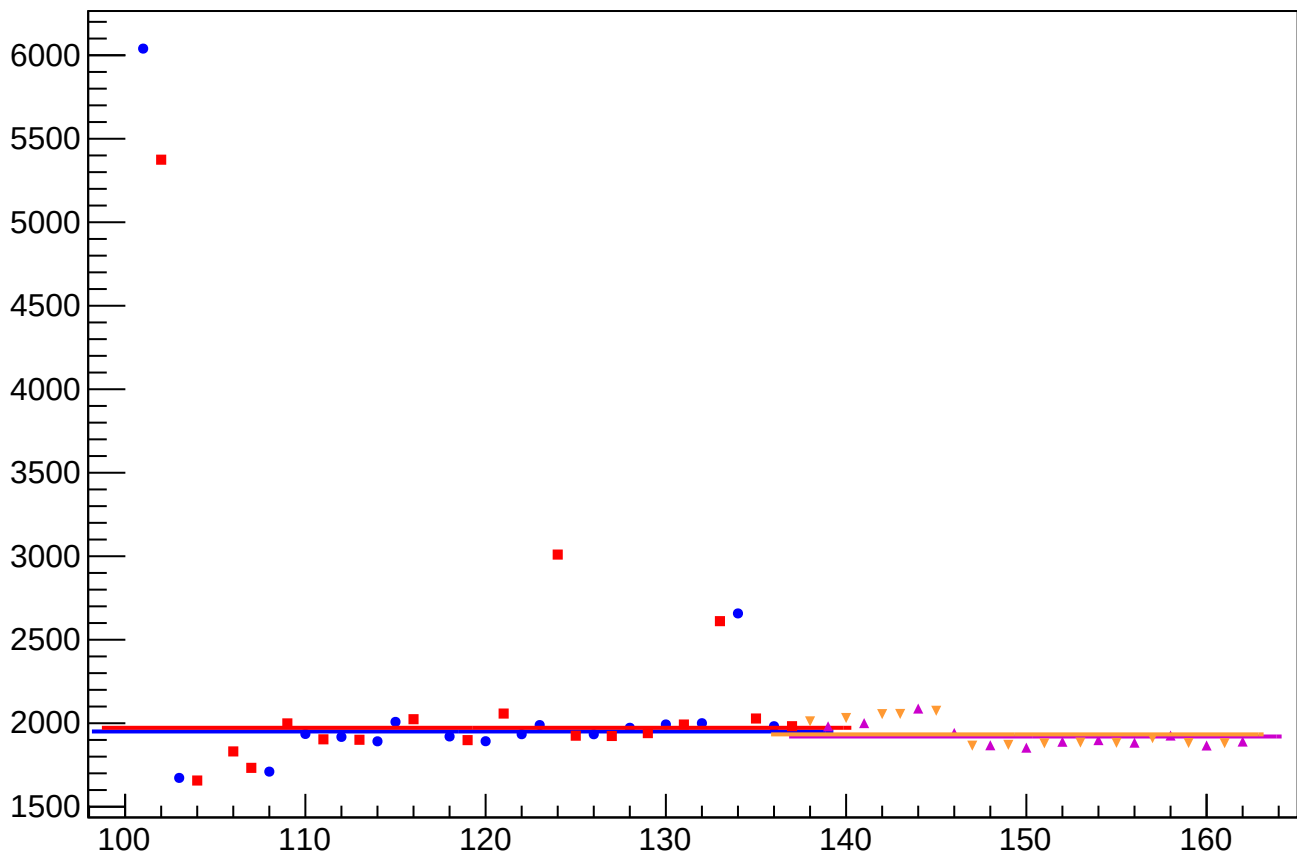
Left In: -3282.671+/-613.253  $\chi^2/\text{NDF}$ : 19.0/11

+ sign 2034.497+/-481.534  $\chi^2/\text{NDF}$ : 27.7/29

All: -546.329+/-339.519  $\chi^2/\text{NDF}$ : 126.1/59

- sign -3097.765+/-478.784  $\chi^2/\text{NDF}$ : 41.2/29

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



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

Left Out: 1933.267 $\pm$ 0.436  $\chi^2$ /NDF: 31607.9/12

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

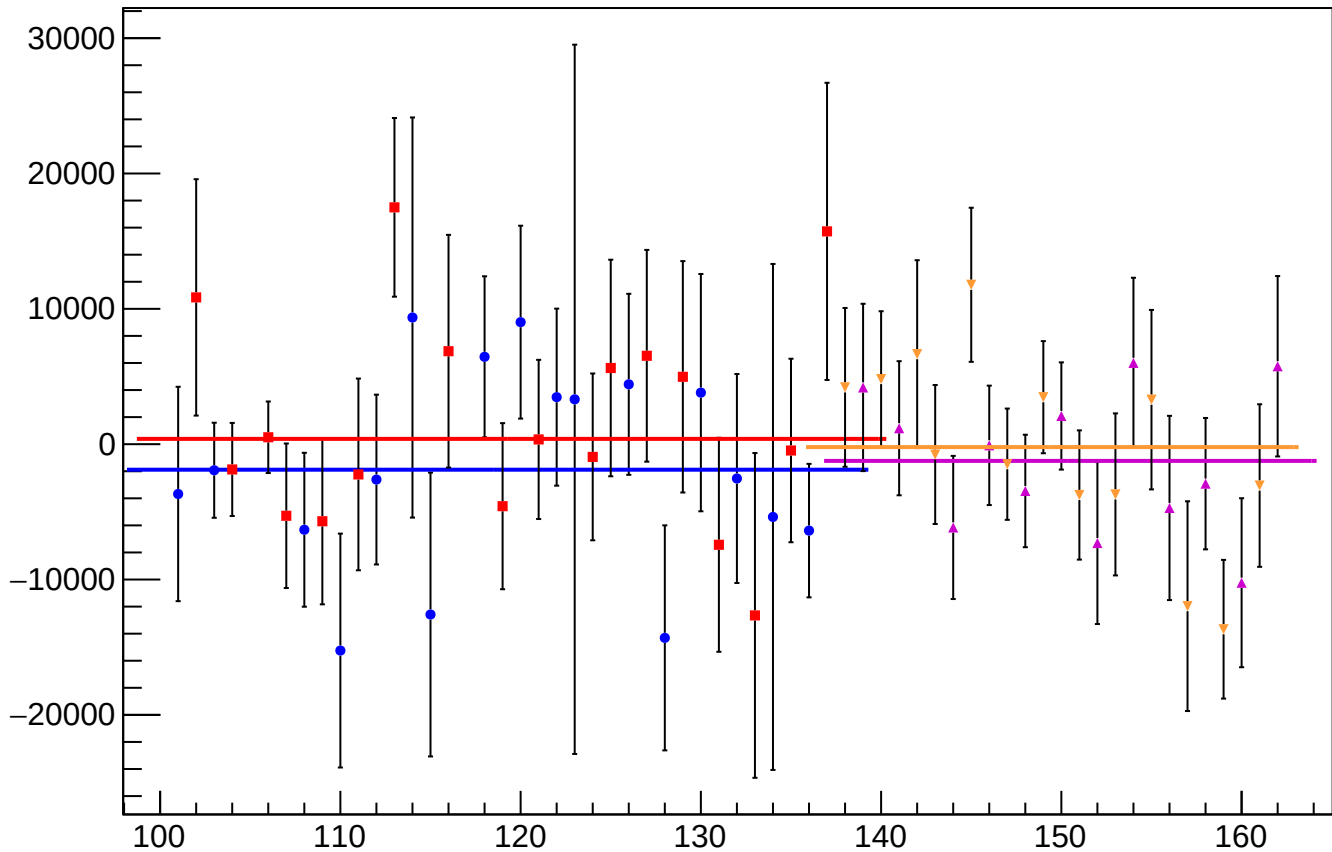
Left In: 1920.544 $\pm$ 0.434  $\chi^2$ /NDF: 21920.1/11

+ sign 1940.041 $\pm$ 0.340  $\chi^2$ /NDF: 647395.5/29

All: 1940.490 $\pm$ 0.240  $\chi^2$ /NDF: 1210647.5/59

- sign 1940.934 $\pm$ 0.338  $\chi^2$ /NDF: 563248.6/29

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



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

Left Out:  $-214.757 \pm 1485.935$   $\chi^2/\text{NDF}: 18.5/12$

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

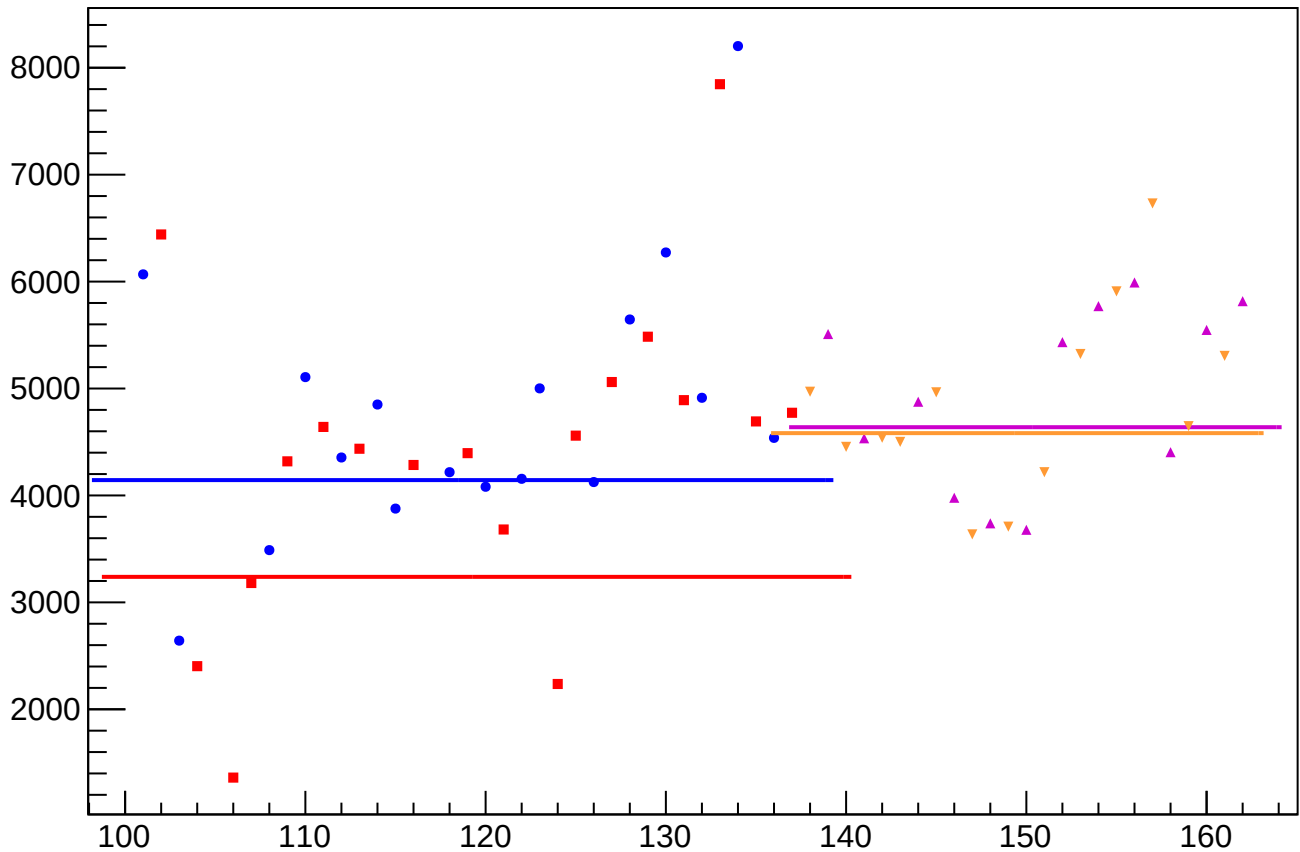
Left In:  $-1234.760 \pm 1505.570$   $\chi^2/\text{NDF}: 8.8/11$

+ sign  $-958.878 \pm 1106.557$   $\chi^2/\text{NDF}: 33.2/29$

All:  $-621.373 \pm 745.944$   $\chi^2/\text{NDF}: 60.4/59$

- sign  $-340.252 \pm 1009.904$   $\chi^2/\text{NDF}: 27.1/29$

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



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

Left Out: 4582.751+/-1.051  $\chi^2/\text{NDF}$ : 520178.4/12

+ sign 4387.081+/-0.782  $\chi^2/\text{NDF}$ : 1454006.2/29

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

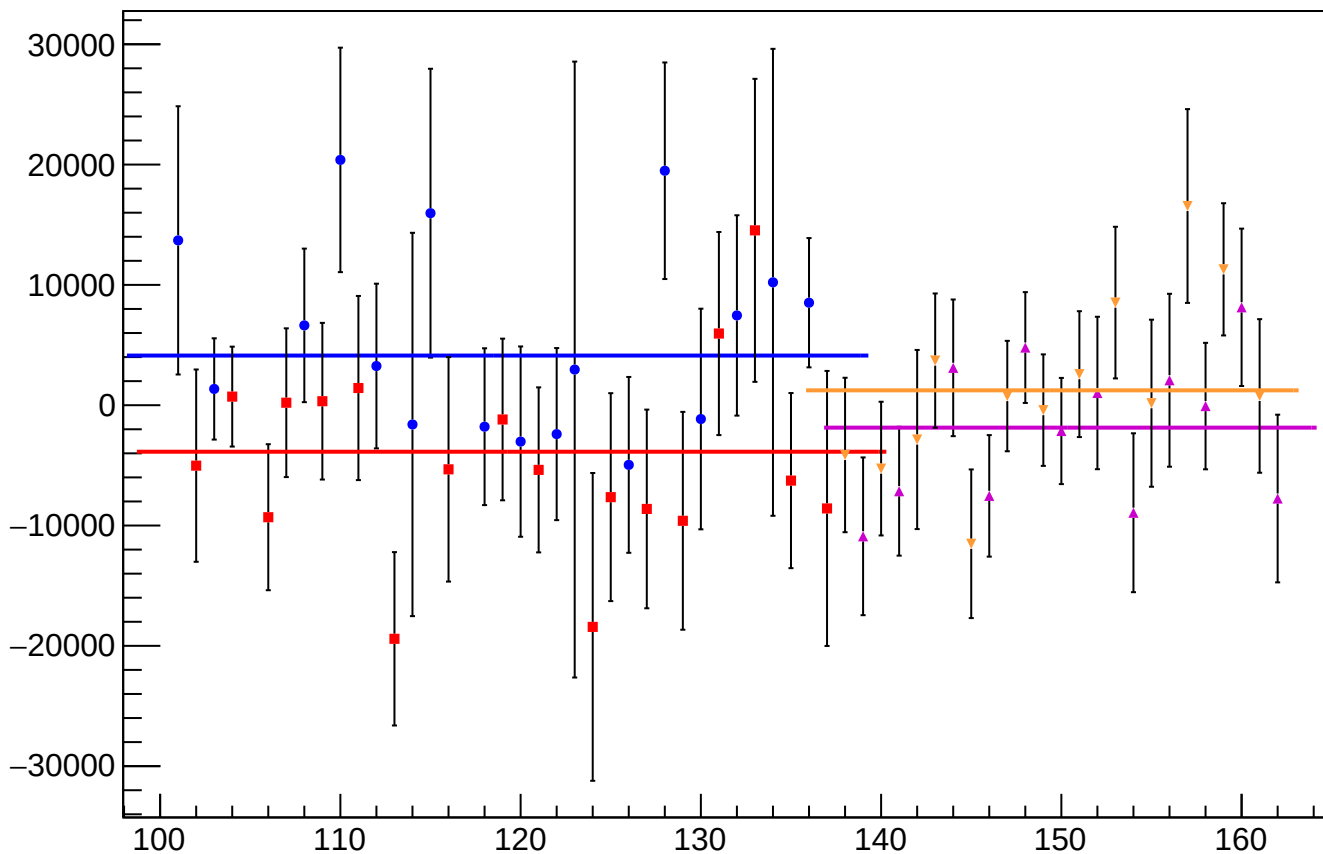
All: 4104.084+/-0.527  $\chi^2/\text{NDF}$ : 5815895.5/59

Left In: 4638.263+/-1.065  $\chi^2/\text{NDF}$ : 589361.7/11

- sign 3868.365+/-0.714  $\chi^2/\text{NDF}$ : 4122119.6/29



# asym\_atr\_avg\_mean vs Slug



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

Left Out: 1235.485+/-1616.398  $\chi^2/\text{NDF}$ : 15.4/12

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

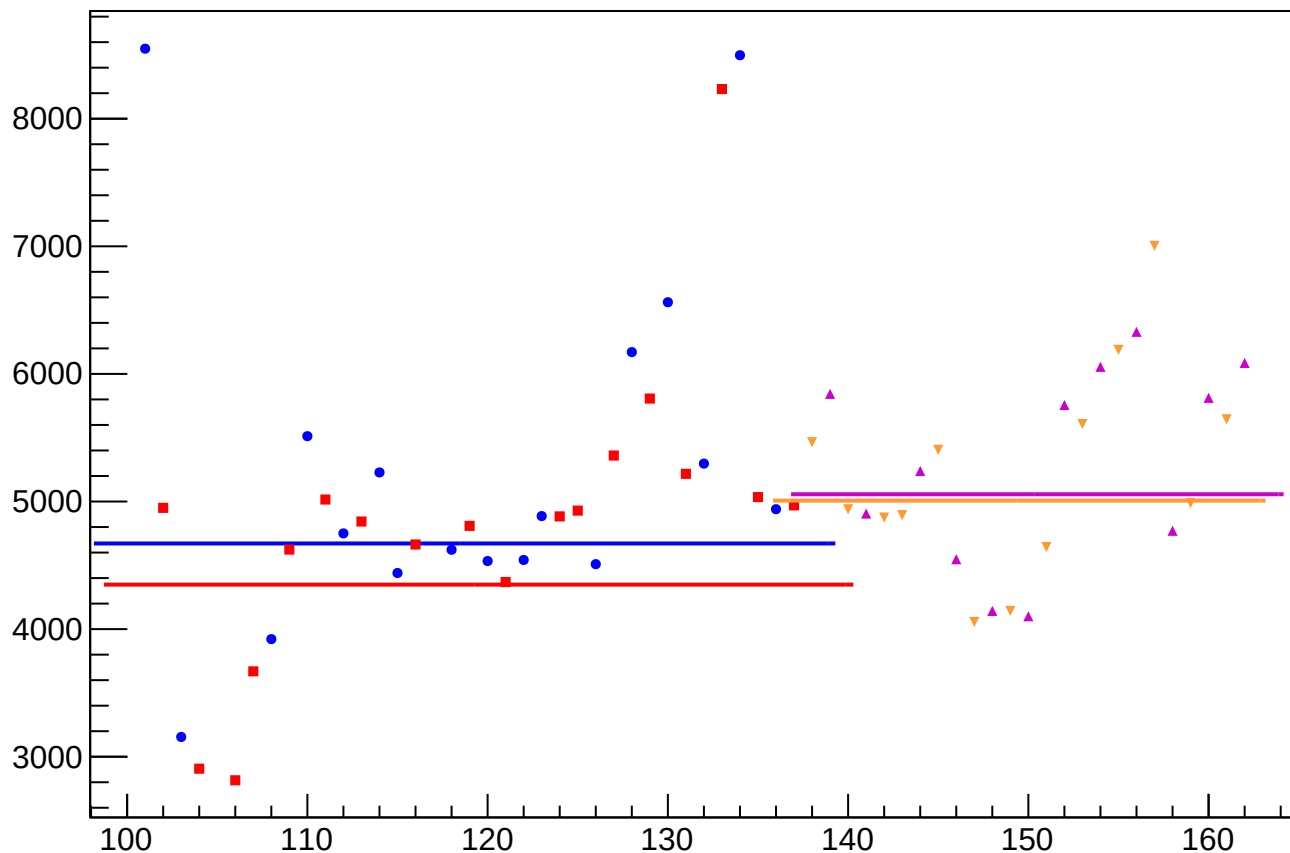
Left In: -1864.484+/-1634.632  $\chi^2/\text{NDF}$ : 11.8/11

+ sign 2477.126+/-1220.928  $\chi^2/\text{NDF}$ : 30.4/29

All: -240.309+/-851.199  $\chi^2/\text{NDF}$ : 66.8/59

- sign -2810.234+/-1187.328  $\chi^2/\text{NDF}$ : 26.8/29

# asym\_atr\_avg\_rms vs Slug



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

Left Out: 5007.057+/-1.143  $\chi^2$ /NDF:404396.7/12

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

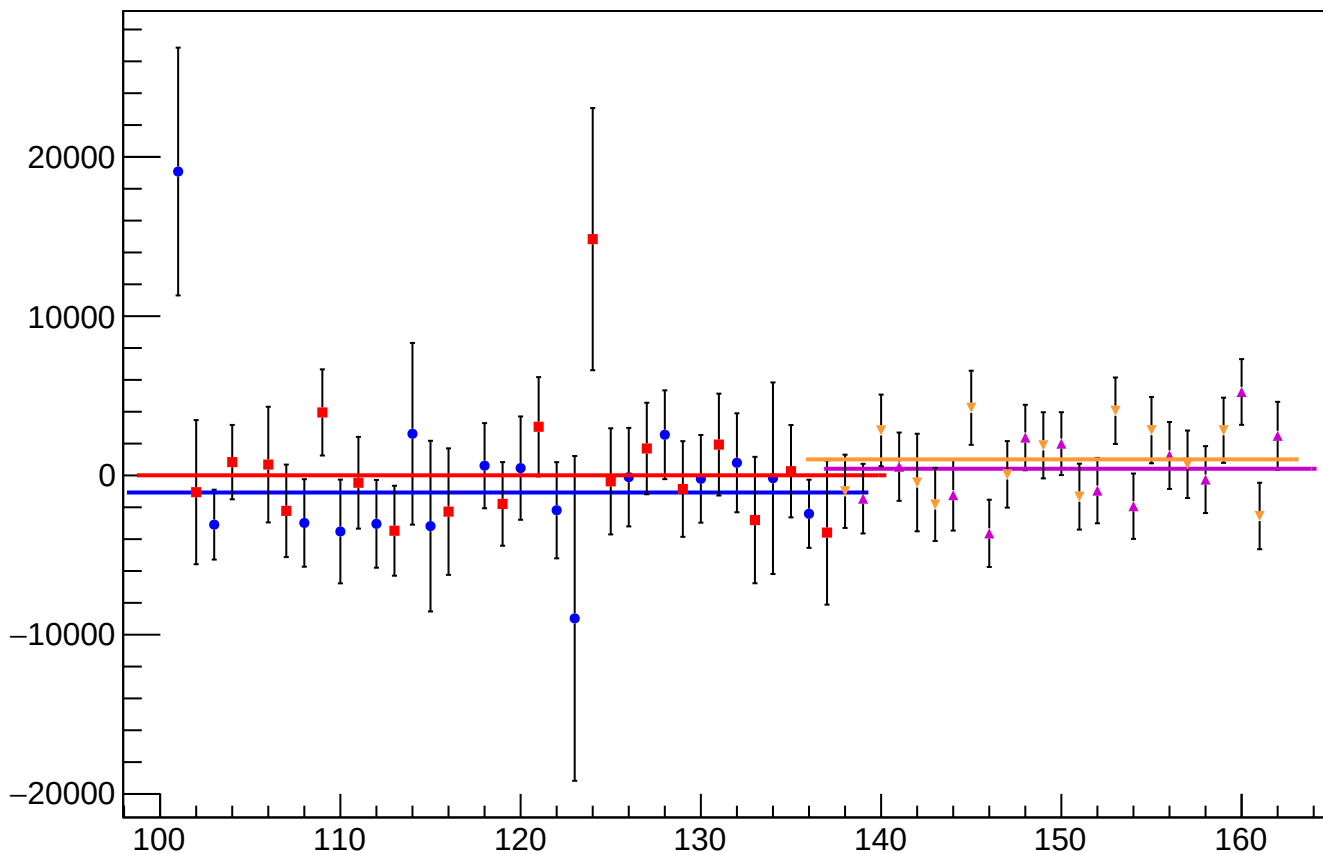
Left In: 5056.963+/-1.156  $\chi^2$ /NDF:434697.4/11

+ sign 4862.870+/-0.863  $\chi^2$ /NDF: 1227564.8/29

All: 4789.418+/-0.601  $\chi^2$ /NDF: 2647188.1/59

- sign 4720.334+/-0.837  $\chi^2$ /NDF: 1405576.4/29

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



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

Left Out:  $1010.621 \pm 607.058$   $\chi^2/\text{NDF}$ : 13.4/12

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

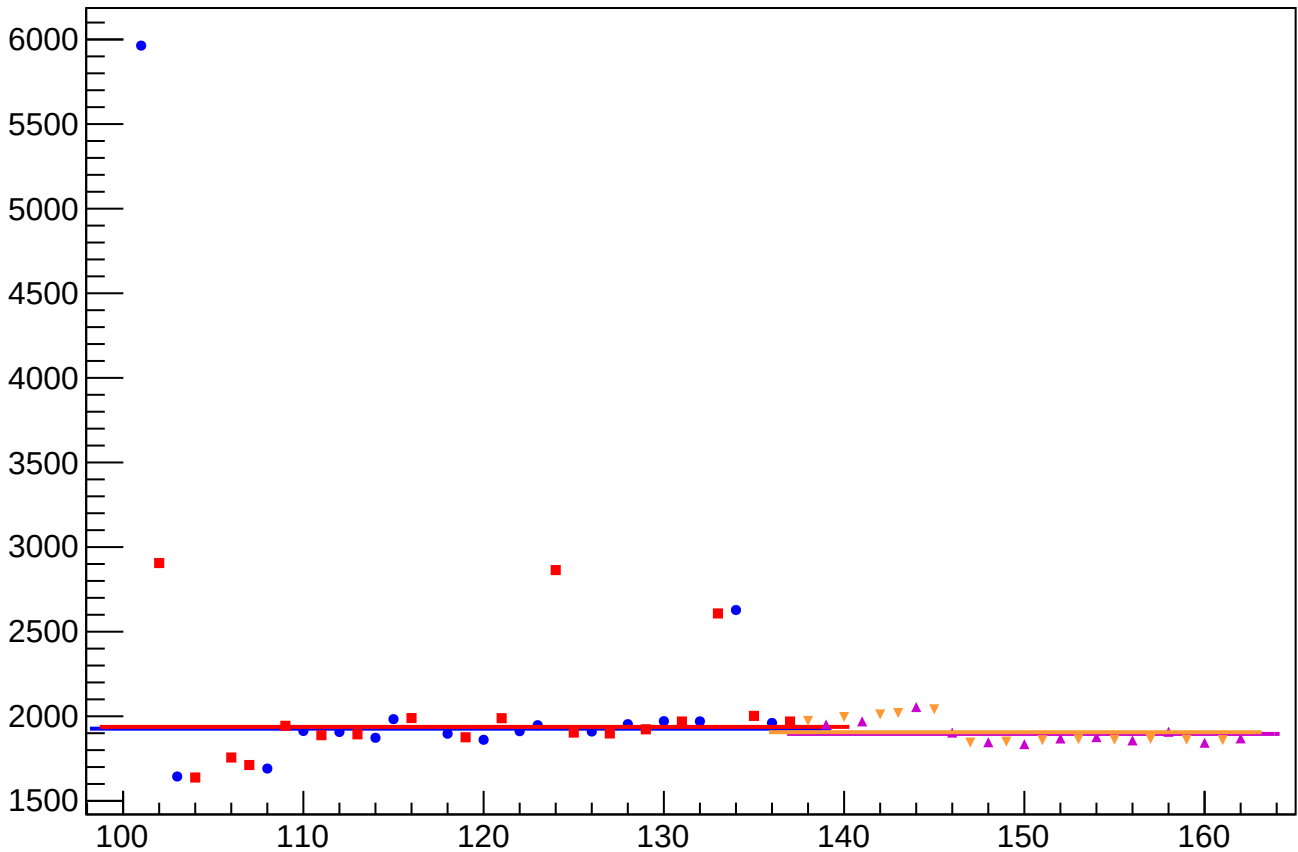
Left In:  $418.855 \pm 605.294$   $\chi^2/\text{NDF}$ : 15.0/11

+ sign  $203.577 \pm 475.039$   $\chi^2/\text{NDF}$ : 31.7/29

All:  $230.370 \pm 334.307$   $\chi^2/\text{NDF}$ : 58.2/59

- sign  $256.660 \pm 470.555$   $\chi^2/\text{NDF}$ : 26.6/29

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



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

Left Out: 1905.777 $\pm$ 0.429  $\chi^2$ /NDF: 27464.8/12

+ sign 1913.962 $\pm$ 0.336  $\chi^2$ /NDF: 645518.8/29

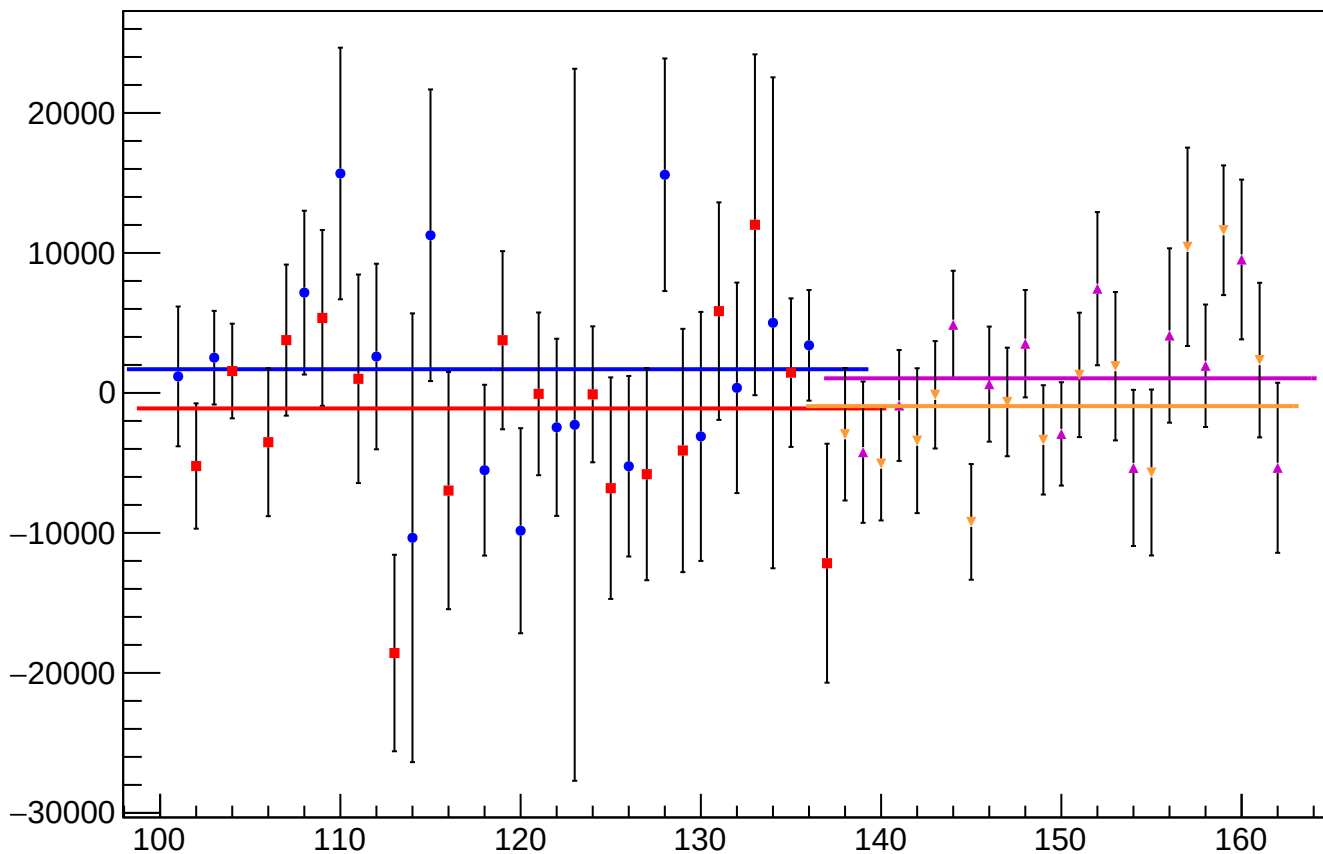
Right Out: 1937.280 $\pm$ 0.529  $\chi^2$ /NDF: 229079.5/17

All: 1913.088 $\pm$ 0.236  $\chi^2$ /NDF: 898115.9/59

Left In: 1895.807 $\pm$ 0.428  $\chi^2$ /NDF: 19786.0/11

- sign 1912.230 $\pm$ 0.333  $\chi^2$ /NDF: 252583.7/29

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



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

Left Out: -942.412+/-1274.728  $\chi^2/\text{NDF}$ : 17.3/12

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

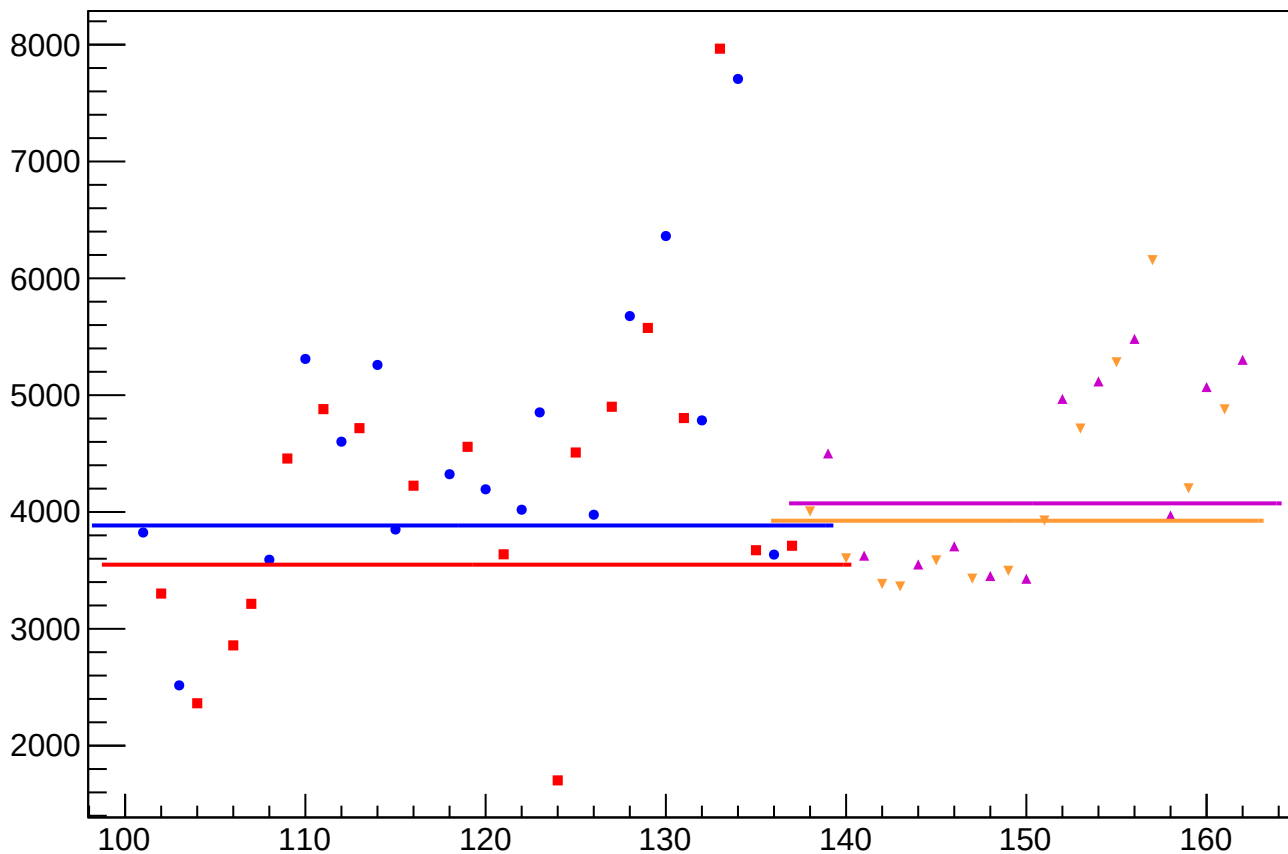
Left In: 1044.342+/-1322.227  $\chi^2/\text{NDF}$ : 10.2/11

+ sign 119.689+/-985.041  $\chi^2/\text{NDF}$ : 32.7/29

All: 78.697+/-689.464  $\chi^2/\text{NDF}$ : 60.0/59

- sign 39.328+/-965.356  $\chi^2/\text{NDF}$ : 27.3/29

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



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

Left Out: 3925.359+/-0.901  $\chi^2/\text{NDF}$ : 562172.5/12

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

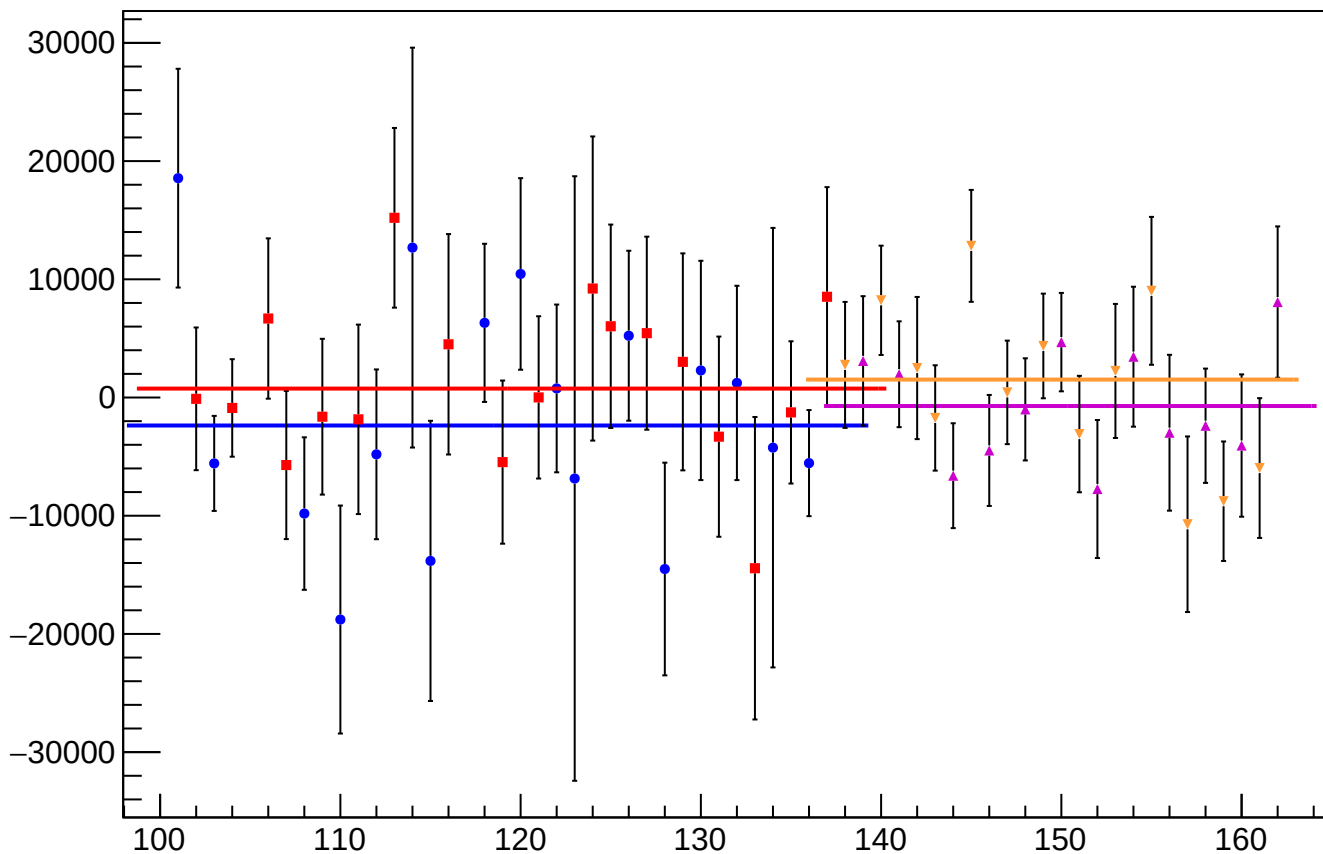
Left In: 4073.936+/-0.935  $\chi^2/\text{NDF}$ : 575707.7/11

+ sign 3908.940+/-0.697  $\chi^2/\text{NDF}$ : 1389559.9/29

All: 3868.100+/-0.488  $\chi^2/\text{NDF}$ : 3446080.1/59

- sign 3828.876+/-0.683  $\chi^2/\text{NDF}$ : 2049780.4/29

# asym\_atr\_dd\_mean vs Slug



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

Left Out: 1517.345 $\pm$ 1426.239  $\chi^2$ /NDF:19.7/12

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

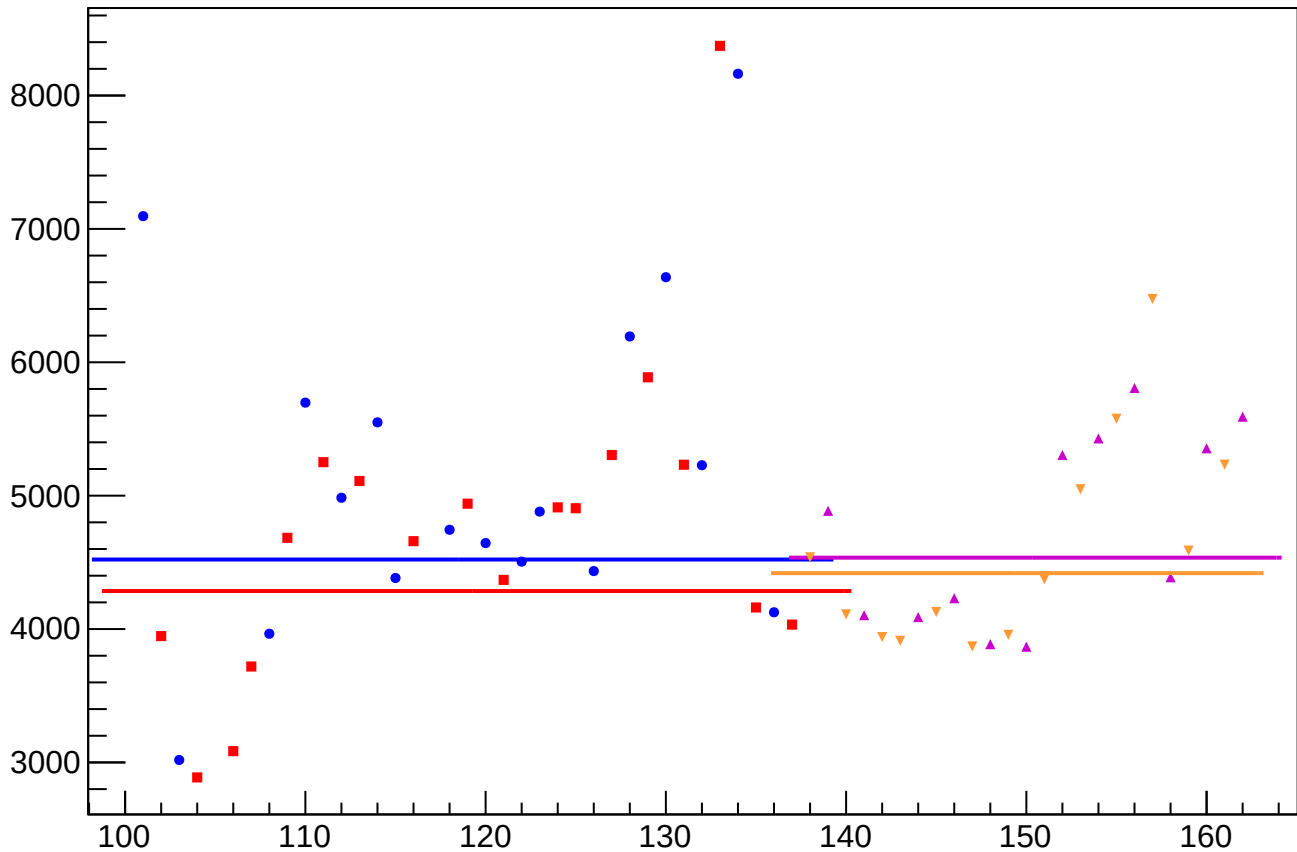
Left In: -719.576 $\pm$ 1464.273  $\chi^2$ /NDF:9.3/11

+ sign 20.997 $\pm$ 1118.327  $\chi^2$ /NDF: 42.7/29

All: -34.169 $\pm$ 786.933  $\chi^2$ /NDF: 62.9/59

- sign -88.275 $\pm$ 1107.533  $\chi^2$ /NDF: 20.2/29

# asym\_atr\_dd\_rms vs Slug



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

Left Out: 4419.289+/-1.009  $\chi^2/\text{NDF}$ : 396076.7/12

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

Left In: 4535.238+/-1.035  $\chi^2/\text{NDF}$ : 400154.1/11

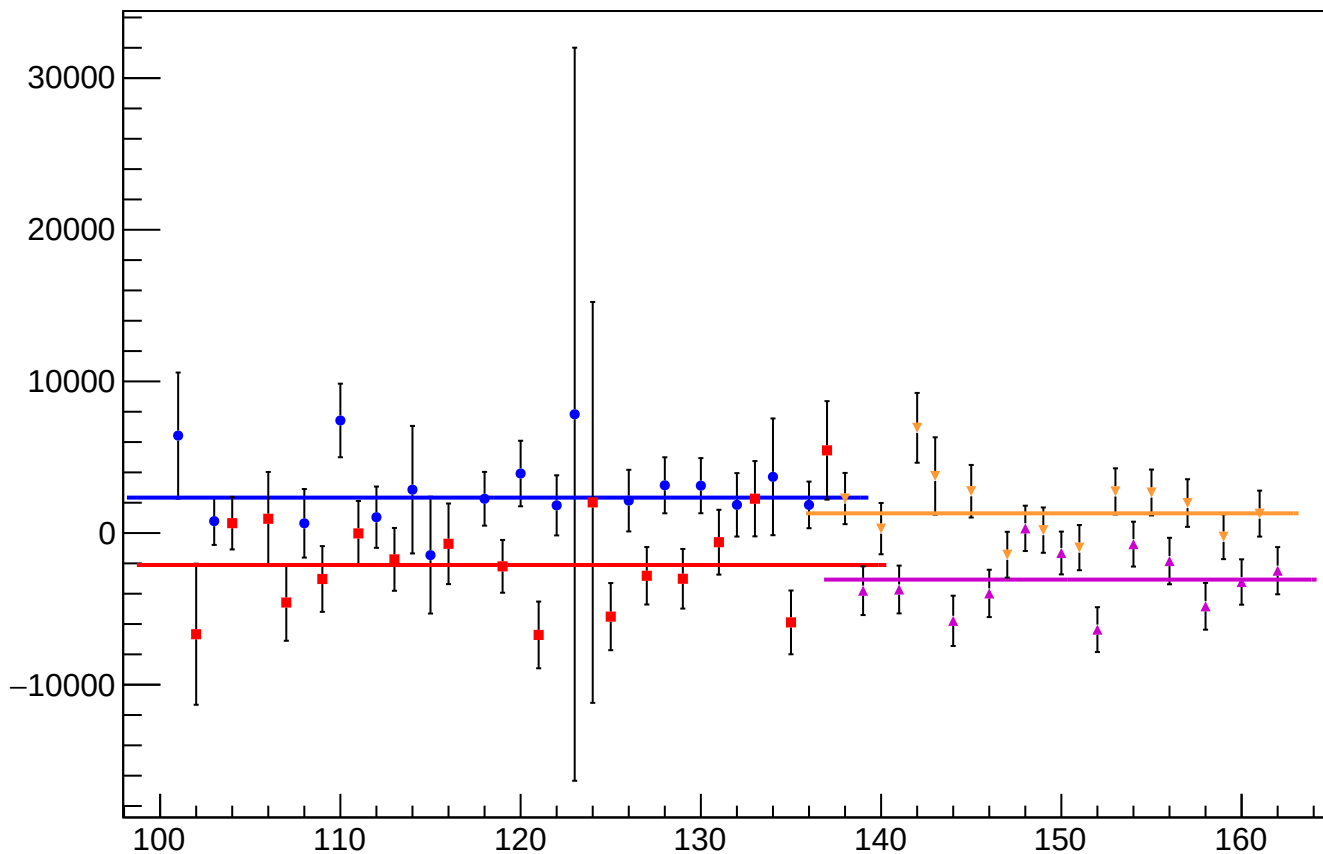
+ sign 4458.554+/-0.791  $\chi^2/\text{NDF}$ : 1178687.2/29

All: 4442.842+/-0.556  $\chi^2/\text{NDF}$ : 2351162.4/59

- sign 4427.505+/-0.781  $\chi^2/\text{NDF}$ : 1171695.1/29



# 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: 1299.934 $\pm$ 452.822  $\chi^2$ /NDF:17.5/12

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

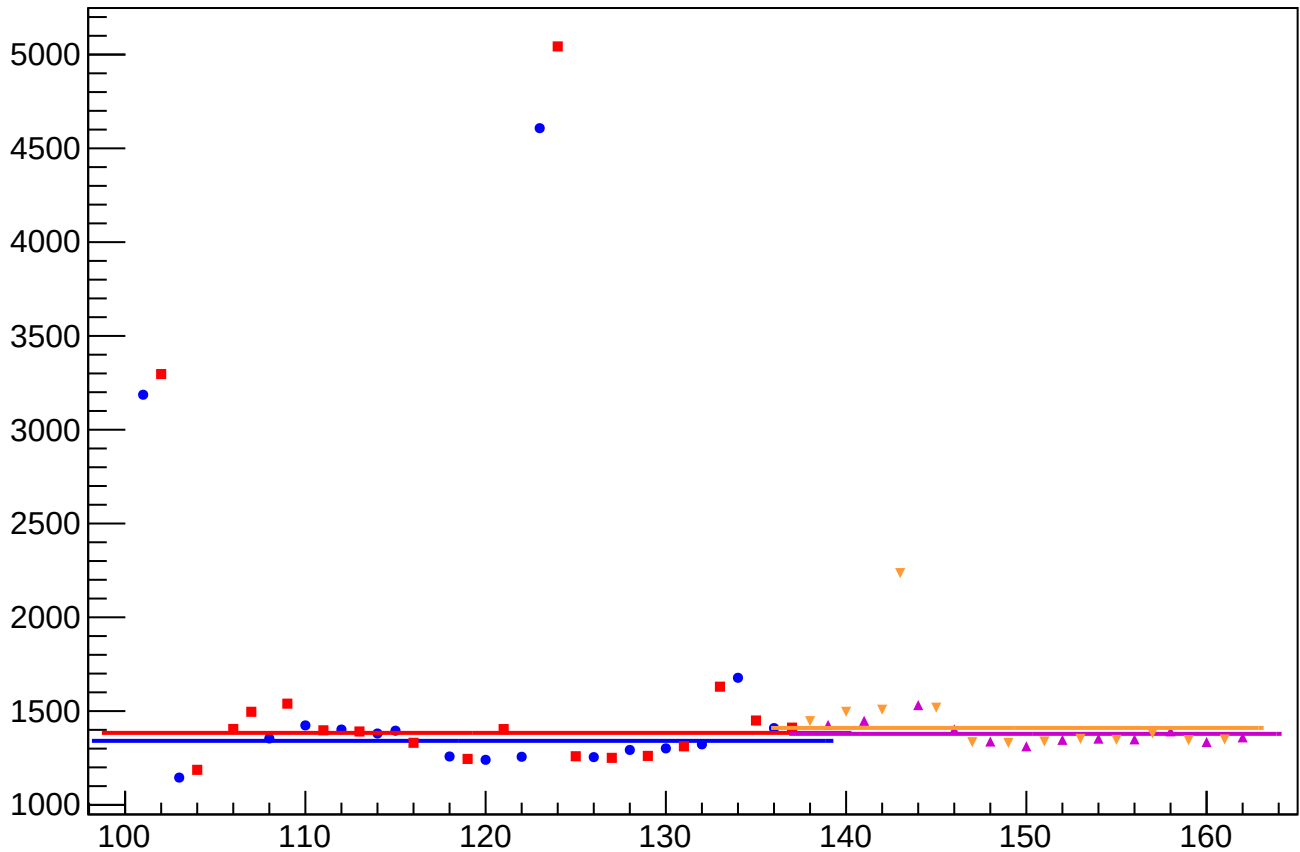
Left In: -3070.107 $\pm$ 441.310  $\chi^2$ /NDF:19.6/11

+ sign 1736.438 $\pm$ 344.587  $\chi^2$ /NDF: 29.3/29

All: -493.012 $\pm$ 242.602  $\chi^2$ /NDF: 160.2/59

- sign -2684.157 $\pm$ 341.614  $\chi^2$ /NDF: 47.9/29

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



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

Left Out: 1410.336+/-0.320  $\chi^2/\text{NDF}$ : 257050.7/12

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

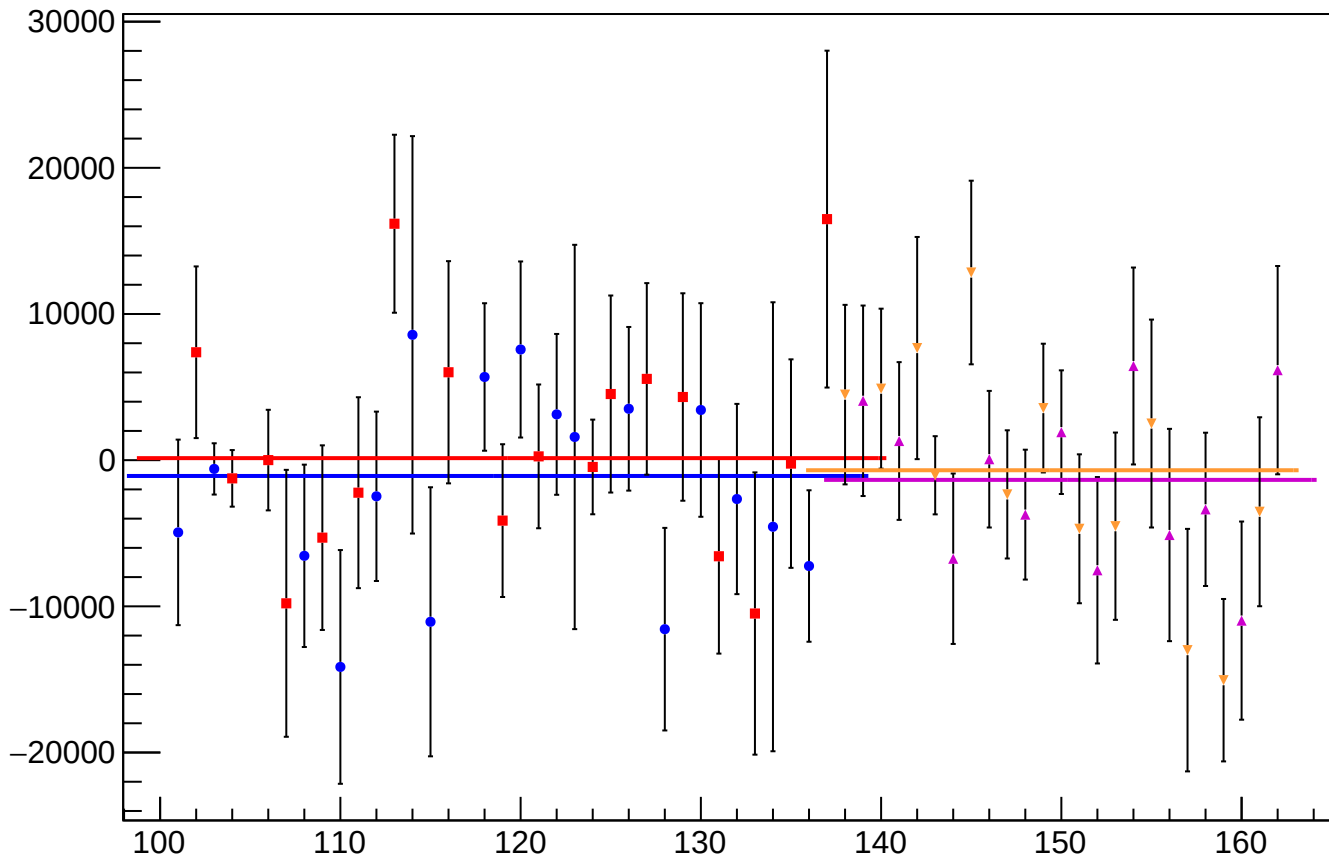
Left In: 1378.731+/-0.312  $\chi^2/\text{NDF}$ : 33478.4/11

+ sign 1381.309+/-0.244  $\chi^2/\text{NDF}$ : 780848.0/29

All: 1381.058+/-0.172  $\chi^2/\text{NDF}$ : 1408285.4/59

- sign 1380.811+/-0.242  $\chi^2/\text{NDF}$ : 627435.3/29

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



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

Left Out: -689.651 $\pm$ 1414.973  $\chi^2$ /NDF: 18.9/12

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

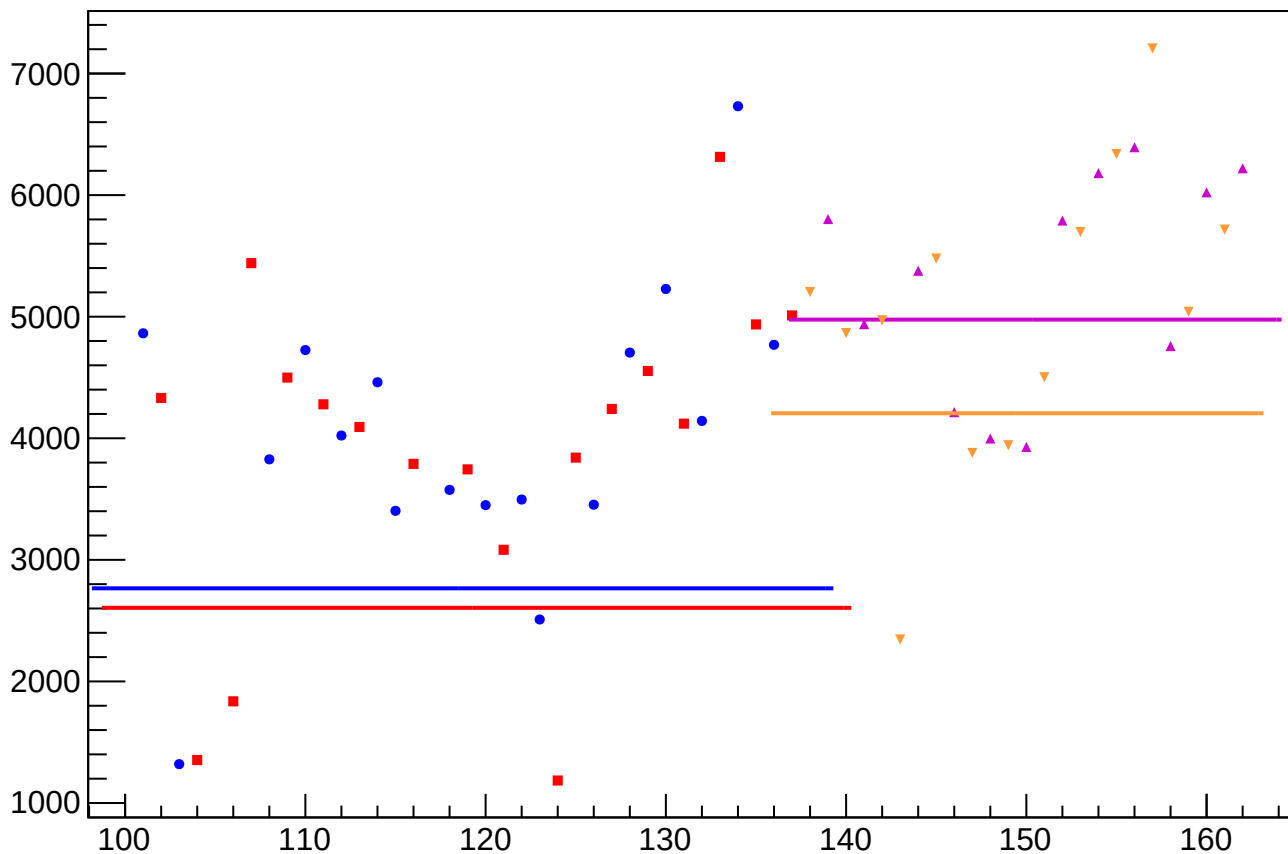
Left In: -1348.697 $\pm$ 1615.677  $\chi^2$ /NDF: 8.6/11

+ sign -915.347 $\pm$ 920.655  $\chi^2$ /NDF: 34.0/29

All: -633.890 $\pm$ 652.749  $\chi^2$ /NDF: 61.3/59

- sign -349.390 $\pm$ 925.619  $\chi^2$ /NDF: 27.2/29

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



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

Left Out: 4205.742 $\pm$ 1.001  $\chi^2$ /NDF:1881194.2/12

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

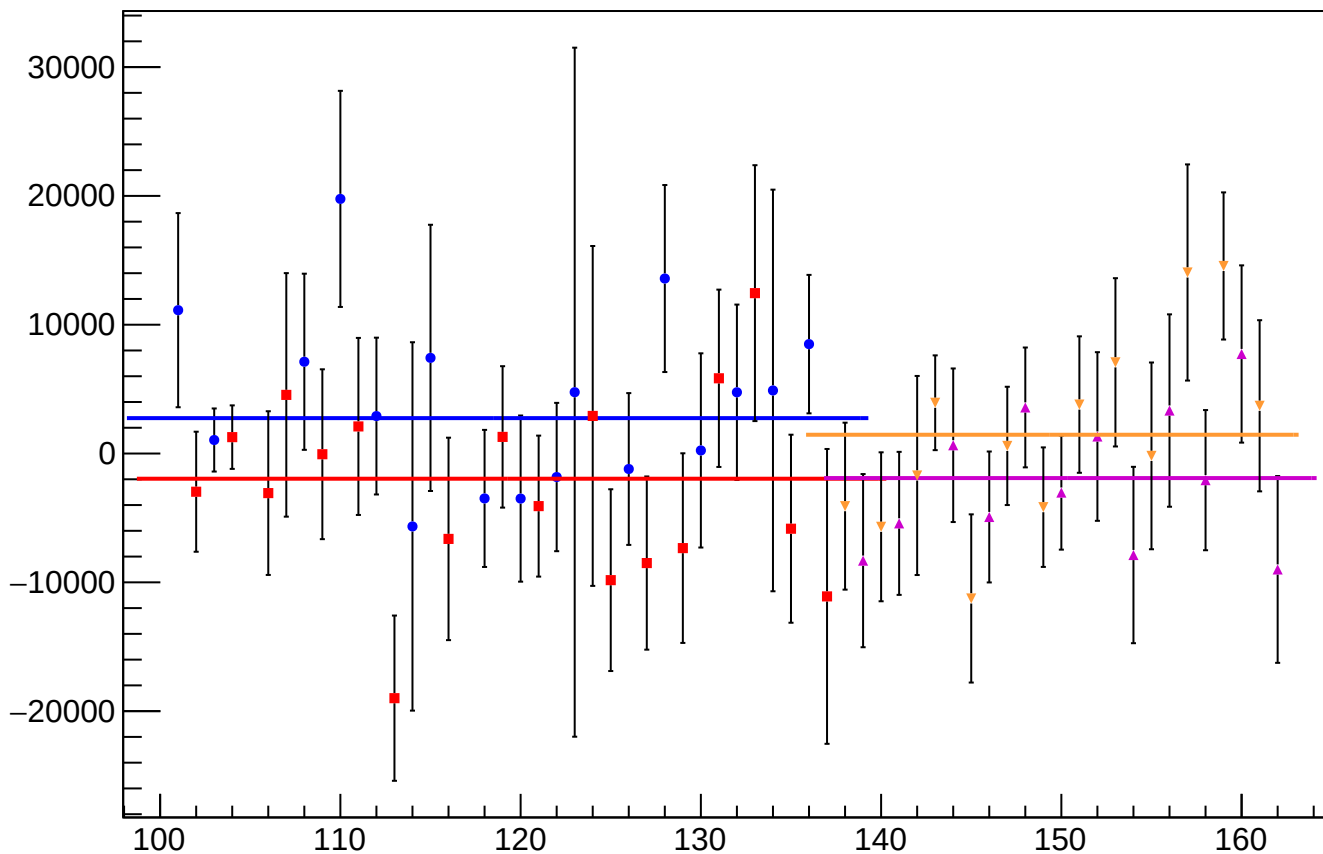
Left In: 4975.963 $\pm$ 1.142  $\chi^2$ /NDF:599530.6/11

+ sign 3375.359 $\pm$ 0.651  $\chi^2$ /NDF: 6014750.6/29

All: 3379.425 $\pm$ 0.462  $\chi^2$ /NDF: 12828766.3/5

- sign 3383.535 $\pm$ 0.655  $\chi^2$ /NDF: 6813937.3/29

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



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

Left Out: 1457.928+/-1566.866  $\chi^2/\text{NDF}$ : 16.8/12

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

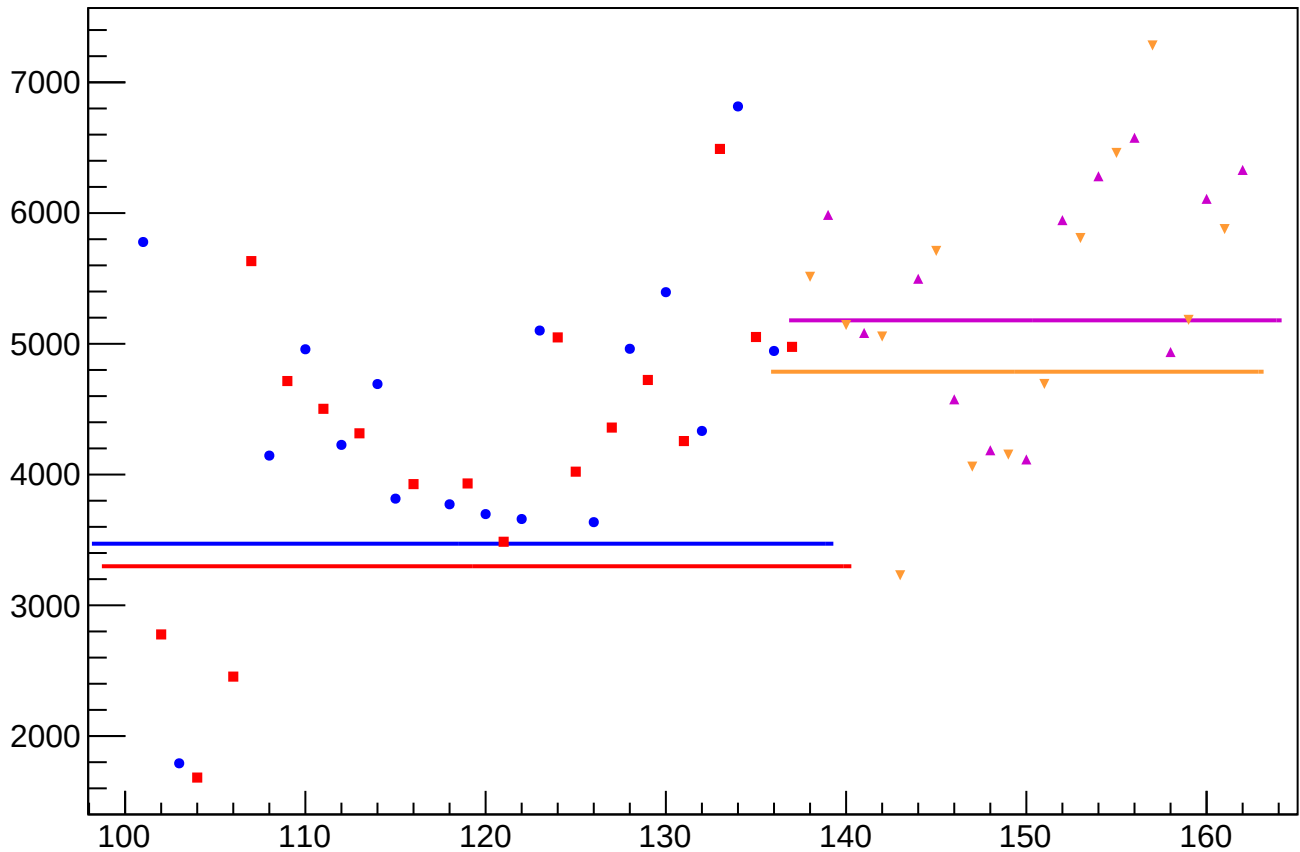
Left In: -1906.298+/-1678.127  $\chi^2/\text{NDF}$ : 7.7/11

+ sign 2154.502+/-1062.893  $\chi^2/\text{NDF}$ : 30.9/29

All: 118.873+/-753.329  $\chi^2/\text{NDF}$ : 63.8/59

- sign -1935.828+/-1067.861  $\chi^2/\text{NDF}$ : 25.5/29

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



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

Left Out: 4786.659+/-1.108  $\chi^2/\text{NDF}$ : 917474.8/12

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

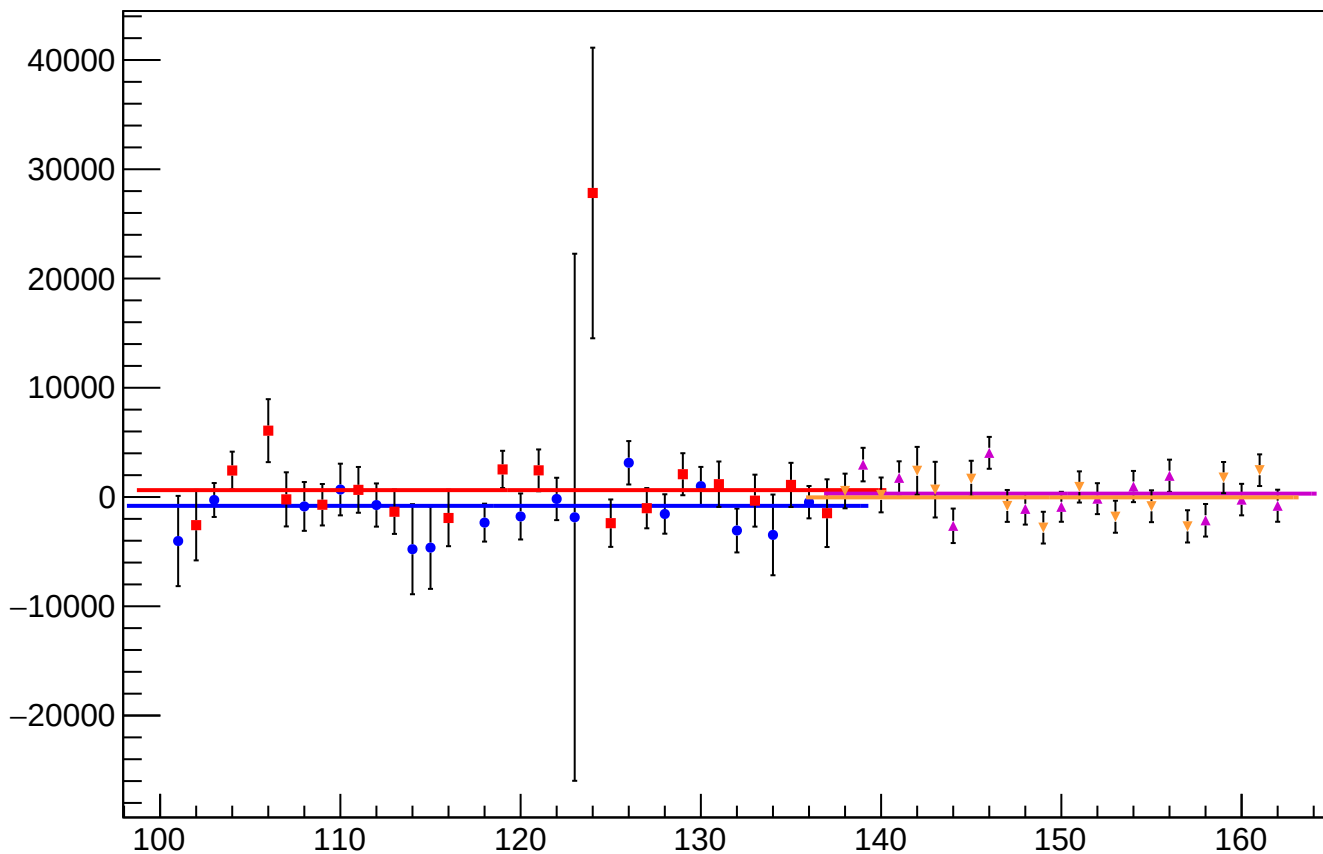
Left In: 5179.477+/-1.187  $\chi^2/\text{NDF}$ : 509920.9/11

+ sign 4076.490+/-0.752  $\chi^2/\text{NDF}$ : 3446430.5/29

All: 4064.195+/-0.531  $\chi^2/\text{NDF}$ : 7349051.9/59

- sign 4051.919+/-0.751  $\chi^2/\text{NDF}$ : 3902086.6/29

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



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

Left Out: -31.897 $\pm$ 433.661  $\chi^2$ /NDF: 16.5/12

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

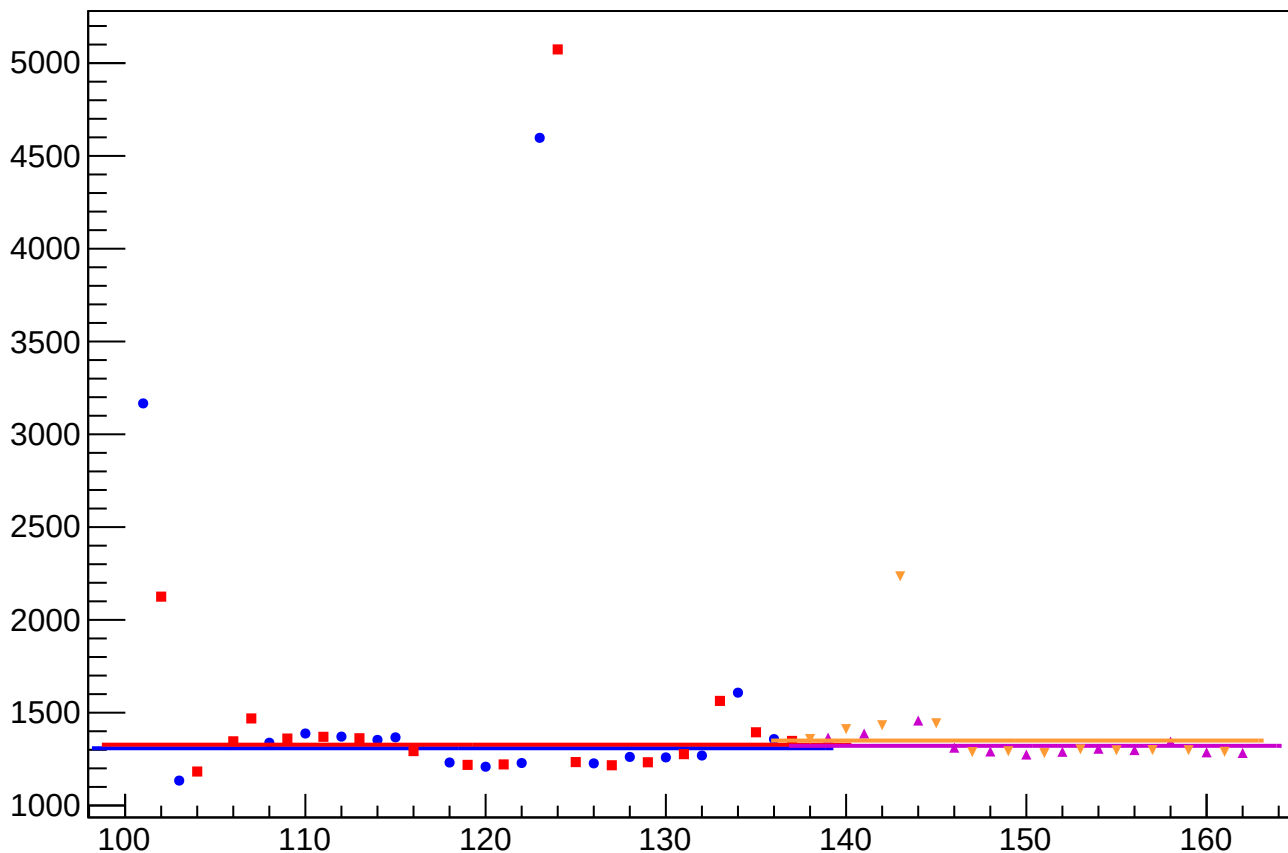
Left In: 308.533 $\pm$ 422.899  $\chi^2$ /NDF: 20.6/11

+ sign -351.985 $\pm$ 332.567  $\chi^2$ /NDF: 29.0/29

All: 50.048 $\pm$ 233.099  $\chi^2$ /NDF: 71.2/59

- sign 438.283 $\pm$ 326.810  $\chi^2$ /NDF: 39.4/29

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: 1349.977+/-0.307  $\chi^2/\text{NDF}$ : 278022.0/12

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

Left In: 1321.483+/-0.299  $\chi^2/\text{NDF}$ : 28519.1/11

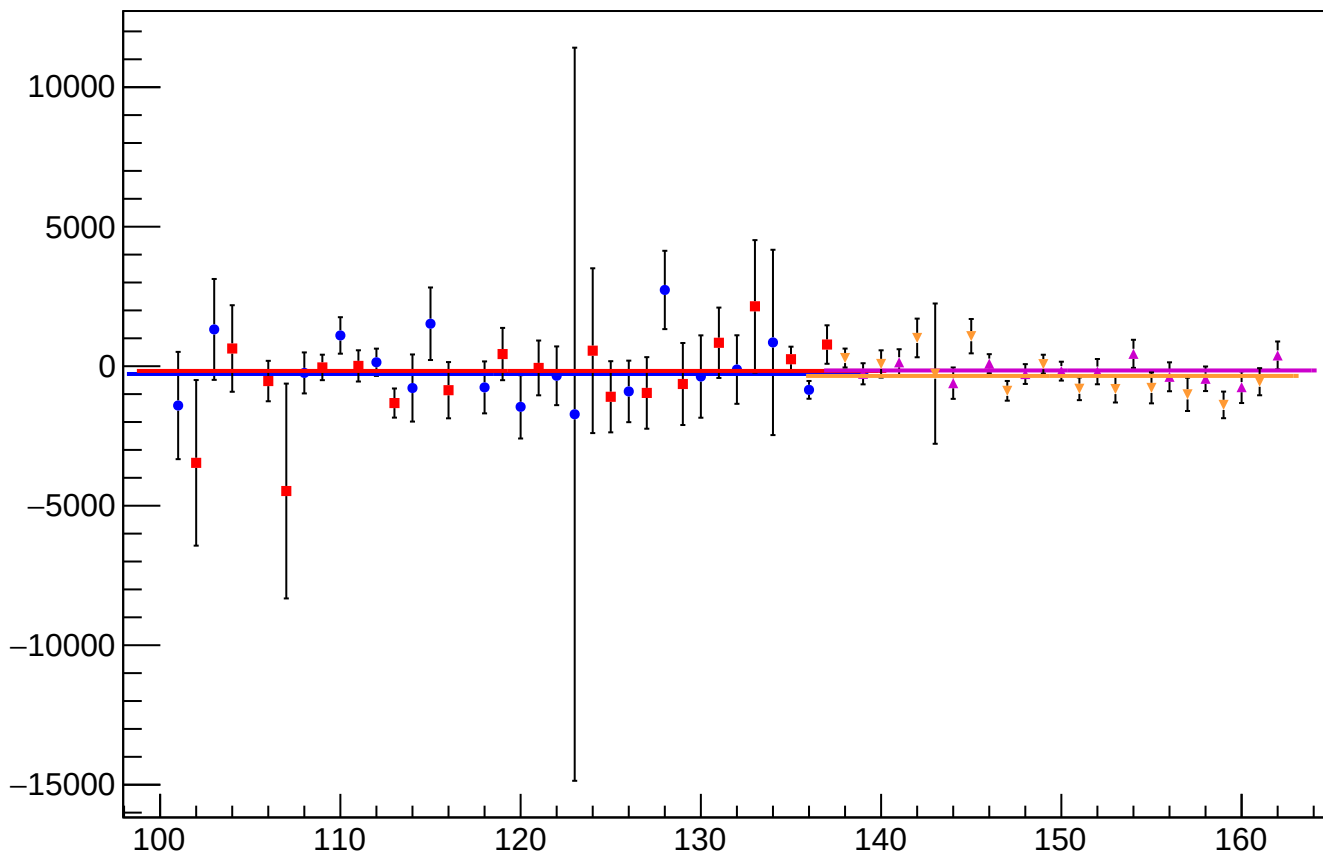
+ sign 1332.838+/-0.235  $\chi^2/\text{NDF}$ : 792151.2/29

All: 1328.324+/-0.165  $\chi^2/\text{NDF}$ : 1178896.1/59

- sign 1323.966+/-0.231  $\chi^2/\text{NDF}$ : 386020.8/29



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



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

Left Out: -348.766+/-129.512  $\chi^2/\text{NDF}$ : 26.4/12

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

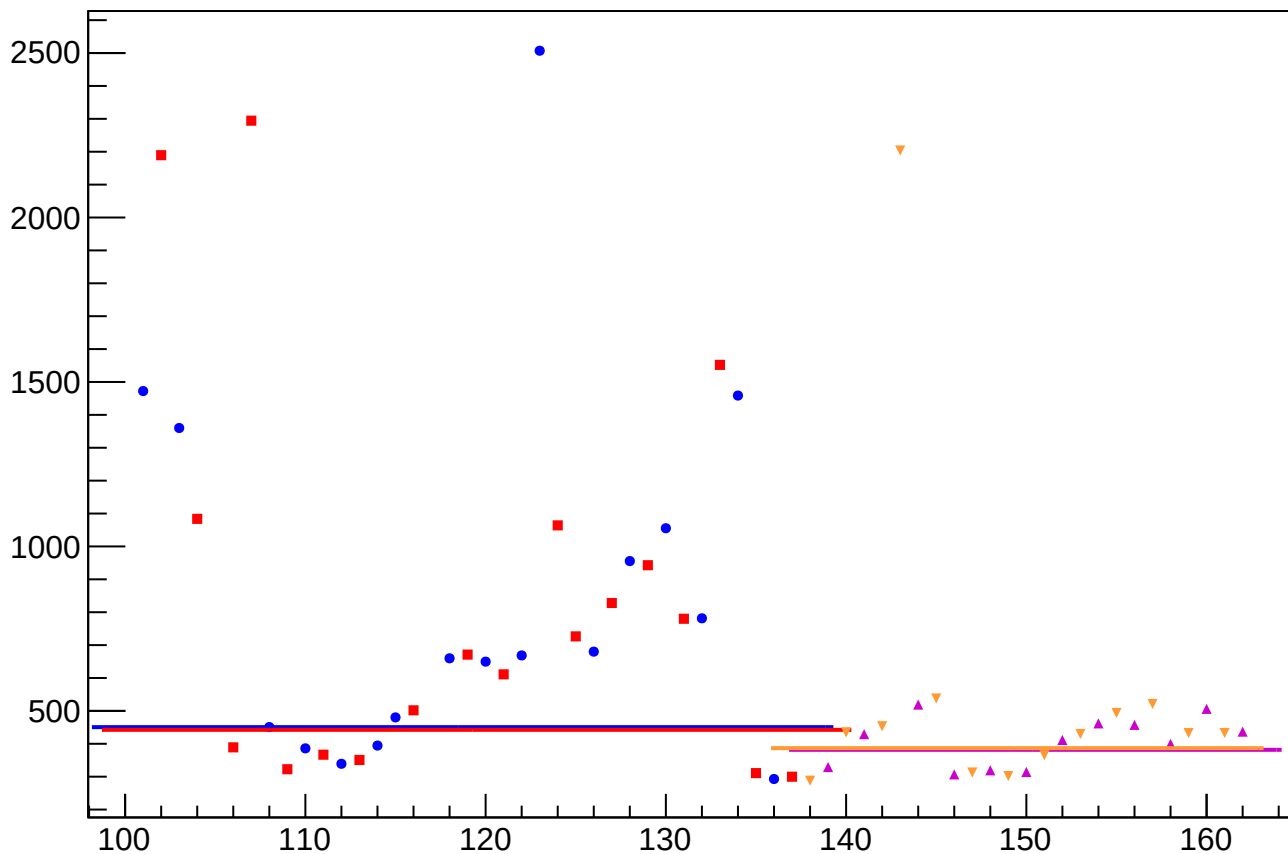
Left In: -152.274+/-124.230  $\chi^2/\text{NDF}$ : 6.1/11

+ sign -327.792+/-108.405  $\chi^2/\text{NDF}$ : 44.5/29

All: -239.359+/-75.190  $\chi^2/\text{NDF}$ : 66.3/59

- sign -157.371+/-104.379  $\chi^2/\text{NDF}$ : 20.5/29

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



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

Left Out: 386.723 $\pm$ 0.092  $\chi^2$ /NDF: 1822596.7/12

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

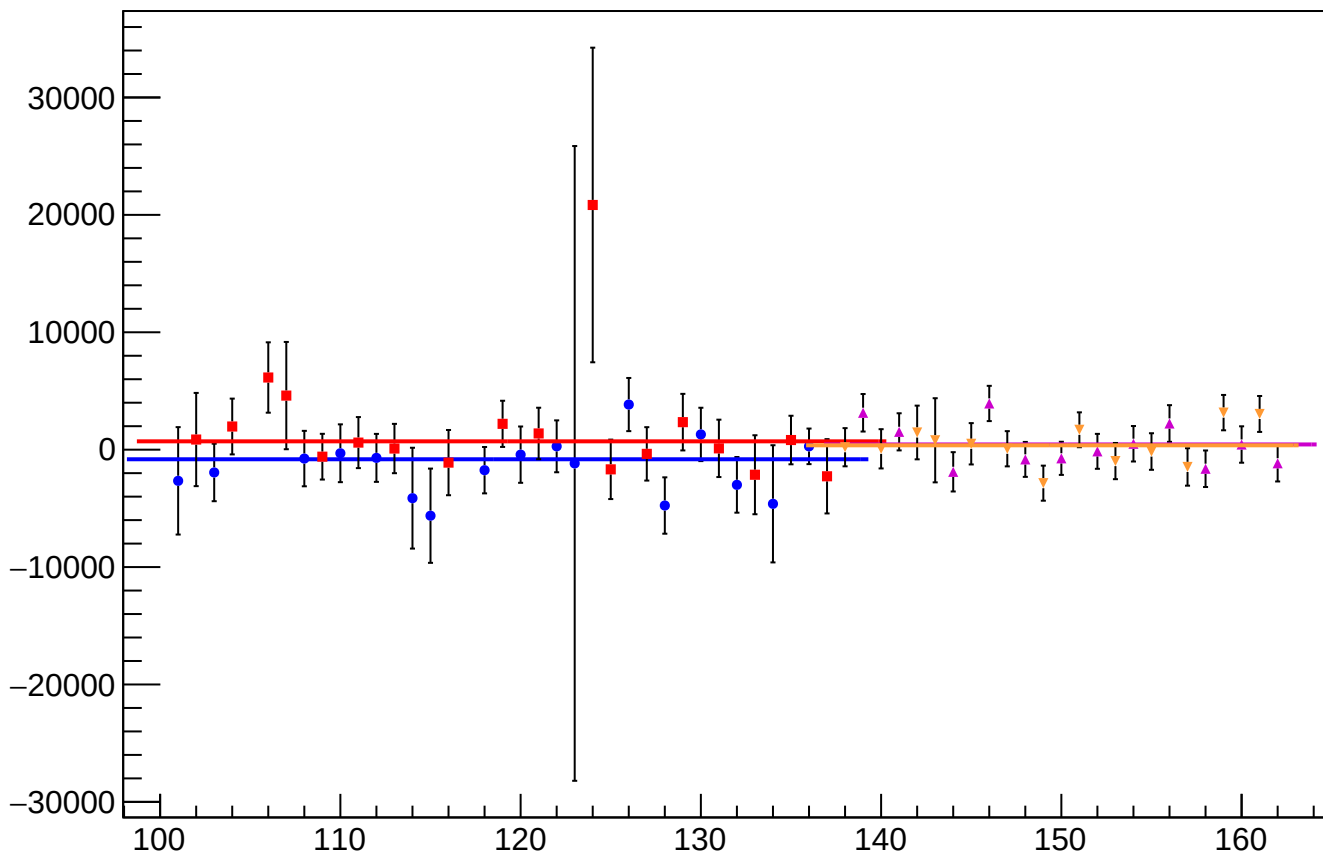
Left In: 381.658 $\pm$ 0.088  $\chi^2$ /NDF: 642388.2/11

+ sign 405.845 $\pm$ 0.077  $\chi^2$ /NDF: 4965969.4/29

All: 402.557 $\pm$ 0.053  $\chi^2$ /NDF: 9120679.8/59

- sign 399.509 $\pm$ 0.074  $\chi^2$ /NDF: 4151165.5/29

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:  $371.680 \pm 457.993$   $\chi^2/\text{NDF}$ : 14.5/12

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

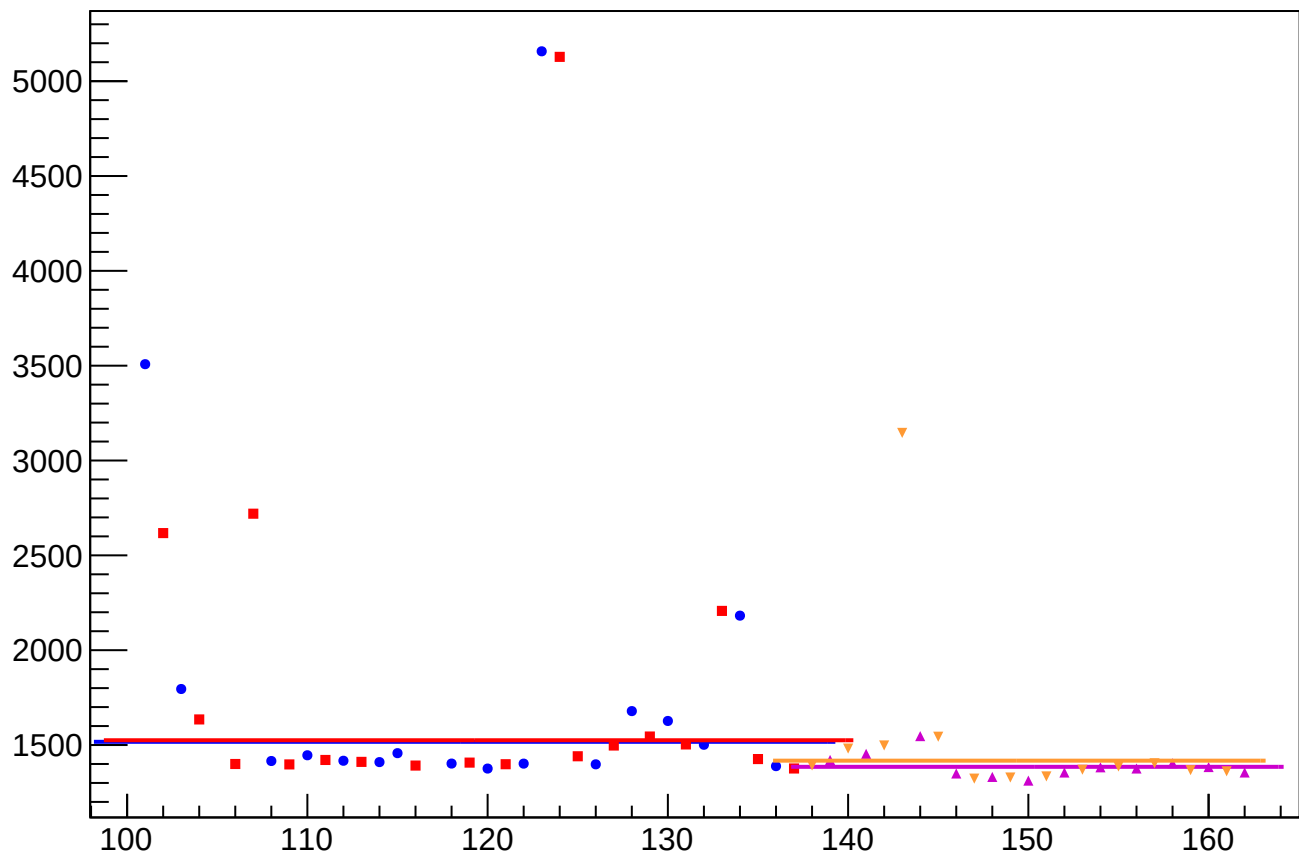
Left In:  $445.105 \pm 443.236$   $\chi^2/\text{NDF}$ : 16.4/11

+ sign  $-64.918 \pm 364.310$   $\chi^2/\text{NDF}$ : 29.6/29

All:  $244.610 \pm 254.499$   $\chi^2/\text{NDF}$ : 59.0/59

- sign  $539.644 \pm 355.678$   $\chi^2/\text{NDF}$ : 27.9/29

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



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

Left Out:  $1417.517 \pm 0.324$   $\chi^2/\text{NDF}$ : 510218.7/12

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

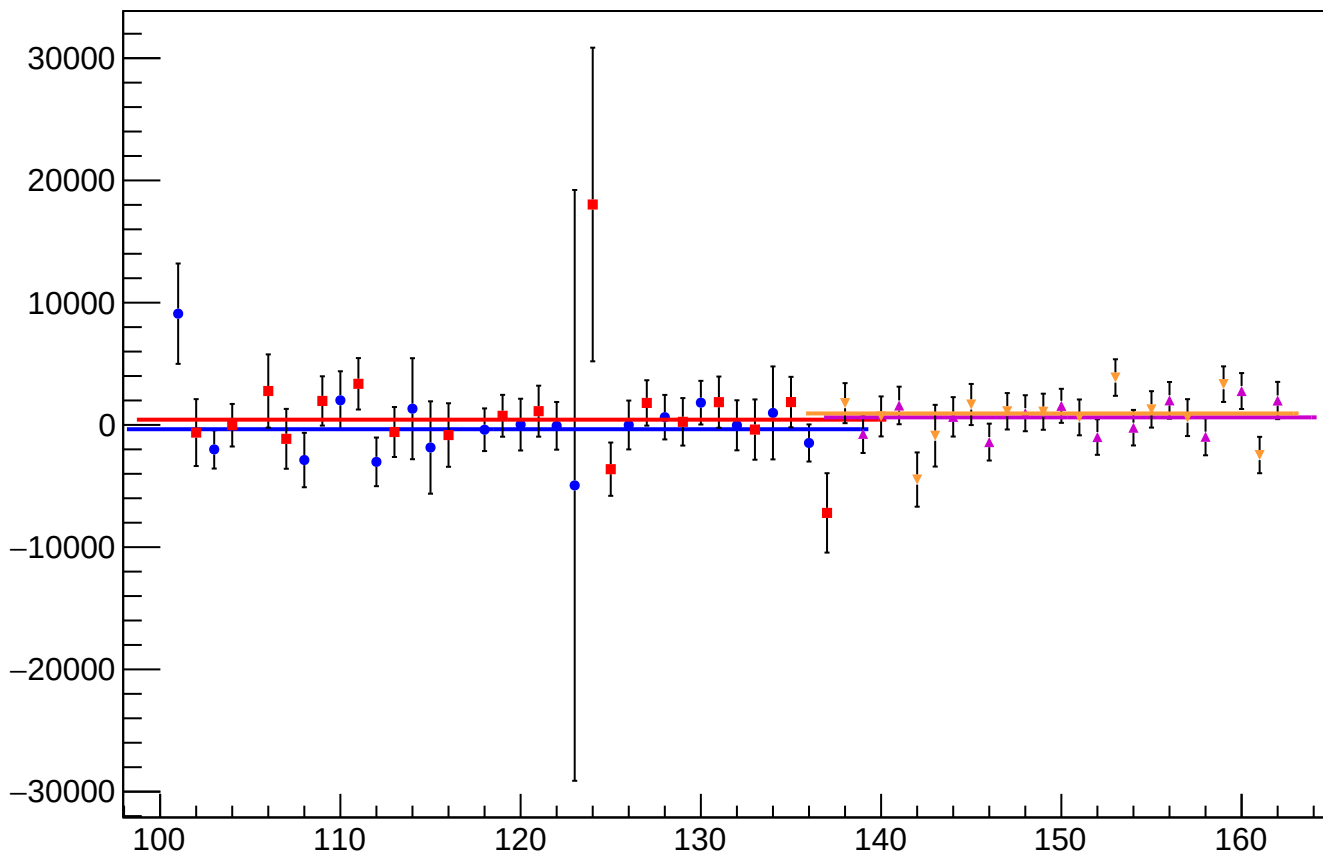
Left In:  $1385.015 \pm 0.313$   $\chi^2/\text{NDF}$ : 34372.4/11

+ sign  $1454.030 \pm 0.258$   $\chi^2/\text{NDF}$ : 1085869.7/29

All:  $1444.233 \pm 0.180$   $\chi^2/\text{NDF}$ : 1766129.1/59

- sign  $1434.894 \pm 0.252$   $\chi^2/\text{NDF}$ : 677434.3/29

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:  $938.047 \pm 442.953$   $\chi^2/\text{NDF}$ : 18.9/12

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

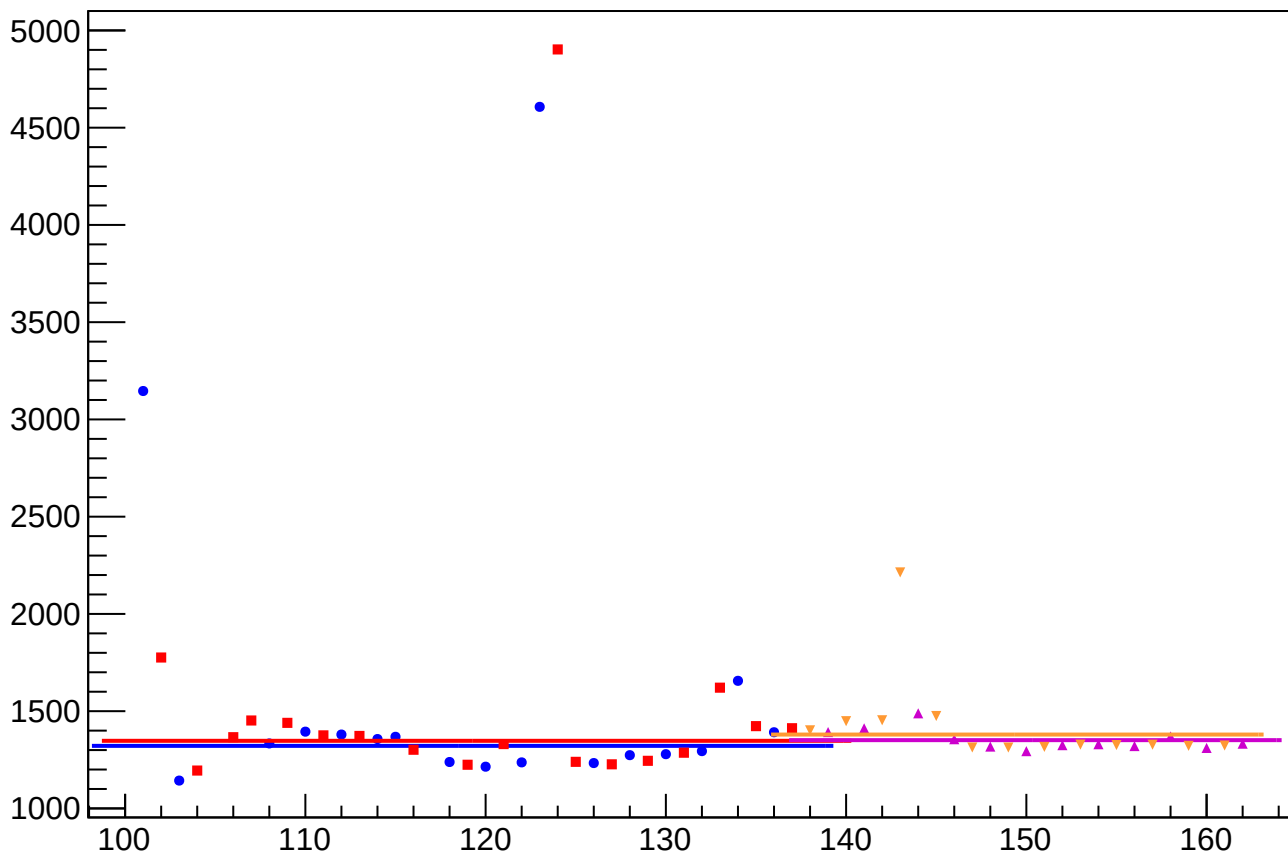
Left In:  $617.047 \pm 432.314$   $\chi^2/\text{NDF}$ : 9.9/11

+ sign  $399.116 \pm 338.100$   $\chi^2/\text{NDF}$ : 35.8/29

All:  $470.959 \pm 237.264$   $\chi^2/\text{NDF}$ : 62.8/59

- sign  $540.669 \pm 333.043$   $\chi^2/\text{NDF}$ : 26.9/29

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



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

Left Out:  $1379.782 \pm 0.313$   $\chi^2/\text{NDF}$ : 255962.2/12

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

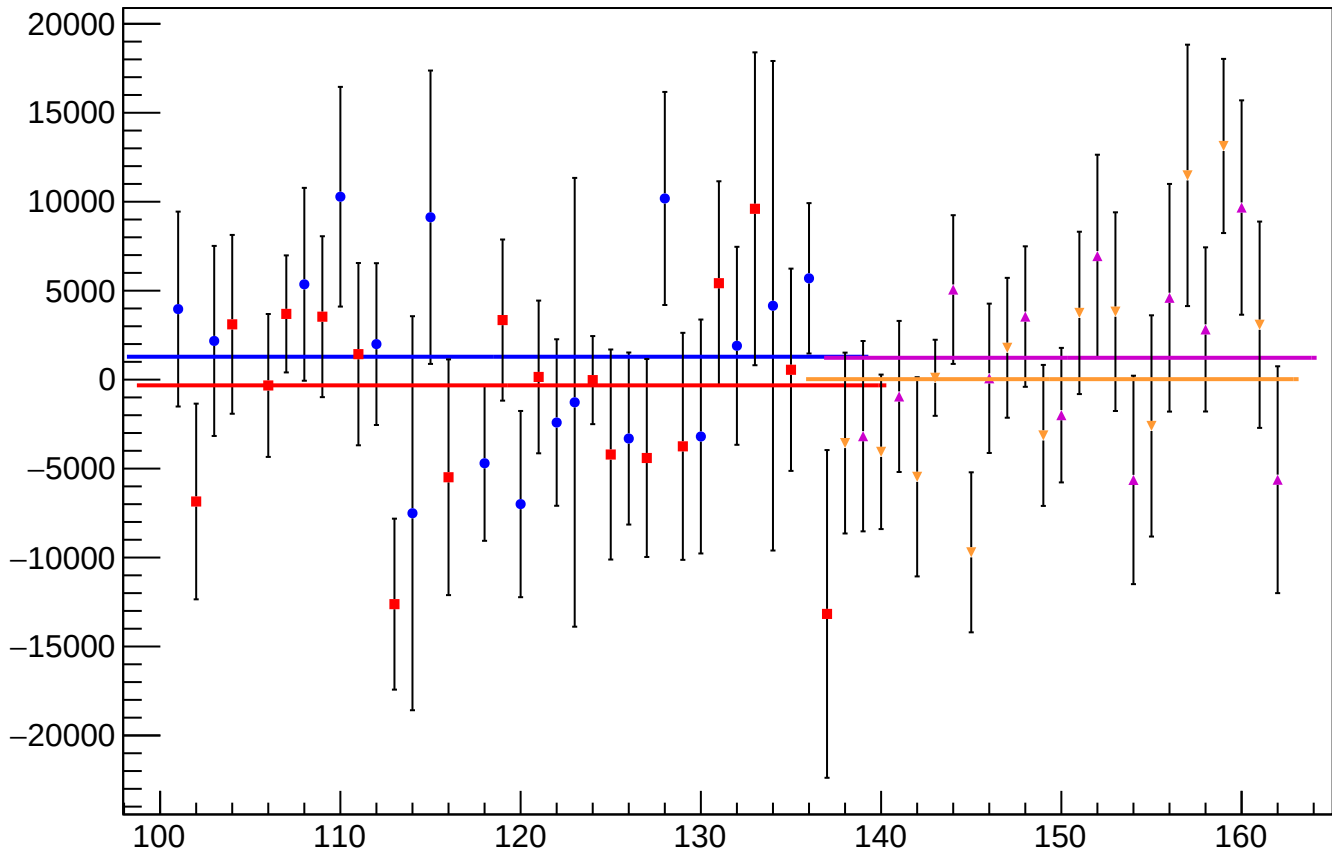
Left In:  $1351.030 \pm 0.306$   $\chi^2/\text{NDF}$ : 27486.3/11

+ sign  $1355.540 \pm 0.239$   $\chi^2/\text{NDF}$ : 772560.0/29

All:  $1352.552 \pm 0.168$   $\chi^2/\text{NDF}$ : 1086705.0/59

- sign  $1349.653 \pm 0.235$   $\chi^2/\text{NDF}$ : 313837.3/29

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



Right In: 1287.495+/-1375.853  $\chi^2/\text{NDF}$ : 14.3/16

Left Out: 27.253+/-1181.581  $\chi^2/\text{NDF}$ : 19.1/12

Right Out: -321.508+/-1105.580  $\chi^2/\text{NDF}$ : 17.6/17

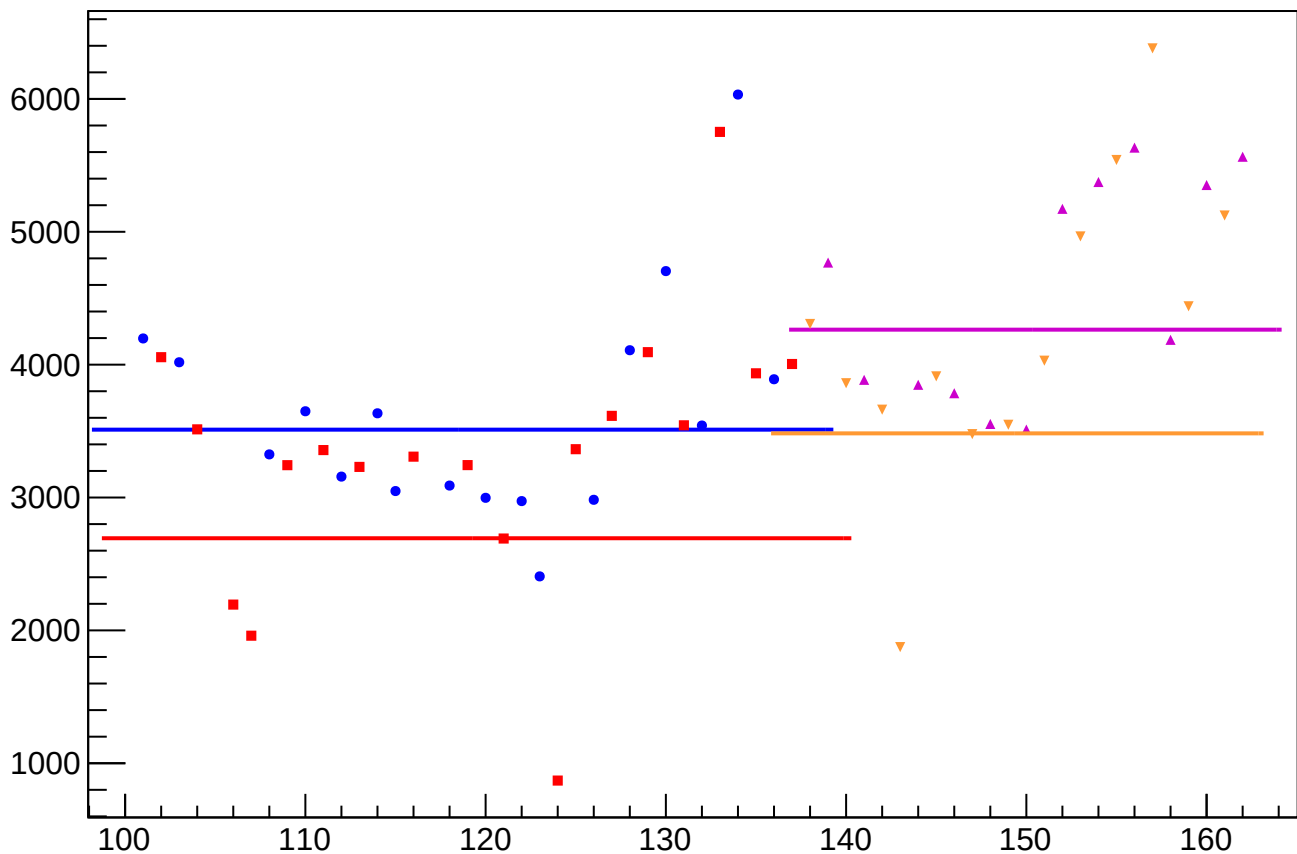
Left In: 1227.827+/-1384.070  $\chi^2/\text{NDF}$ : 8.8/11

+ sign 562.191+/-896.389  $\chi^2/\text{NDF}$ : 33.8/29

All: 416.910+/-622.010  $\chi^2/\text{NDF}$ : 61.0/59

- sign 281.994+/-863.823  $\chi^2/\text{NDF}$ : 27.2/29

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: 3482.883 $\pm$ 0.836  $\chi^2$ /NDF: 2157073.5/12

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

Left In: 4263.399 $\pm$ 0.979  $\chi^2$ /NDF: 586906.1/11

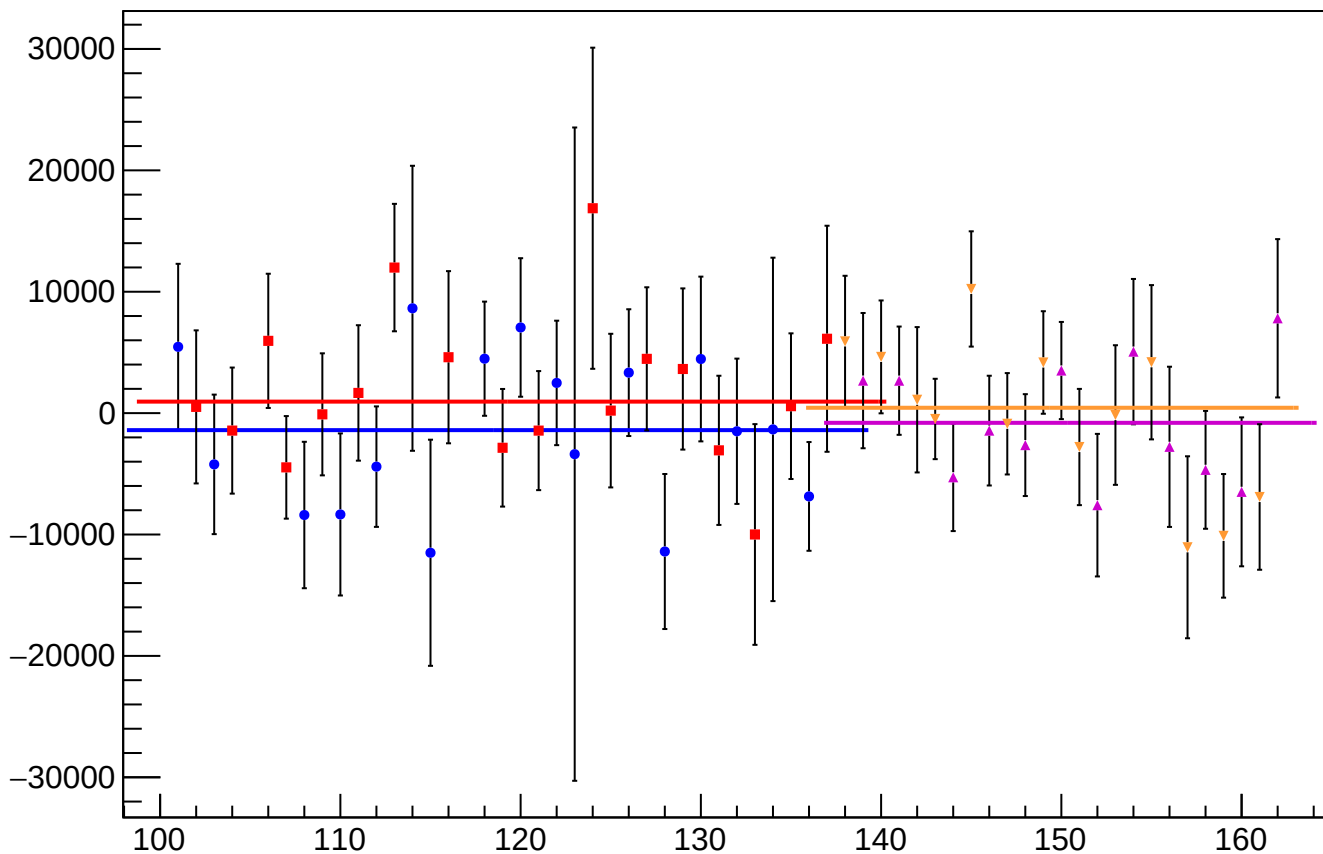
+ sign 3494.732 $\pm$ 0.634  $\chi^2$ /NDF: 2501601.8/29

All: 3396.364 $\pm$ 0.440  $\chi^2$ /NDF: 6831616.7/59

- sign 3305.014 $\pm$ 0.611  $\chi^2$ /NDF: 4283563.3/29



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



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

Left Out:  $441.899 \pm 1360.578$   $\chi^2/\text{NDF}$ : 16.0/12

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

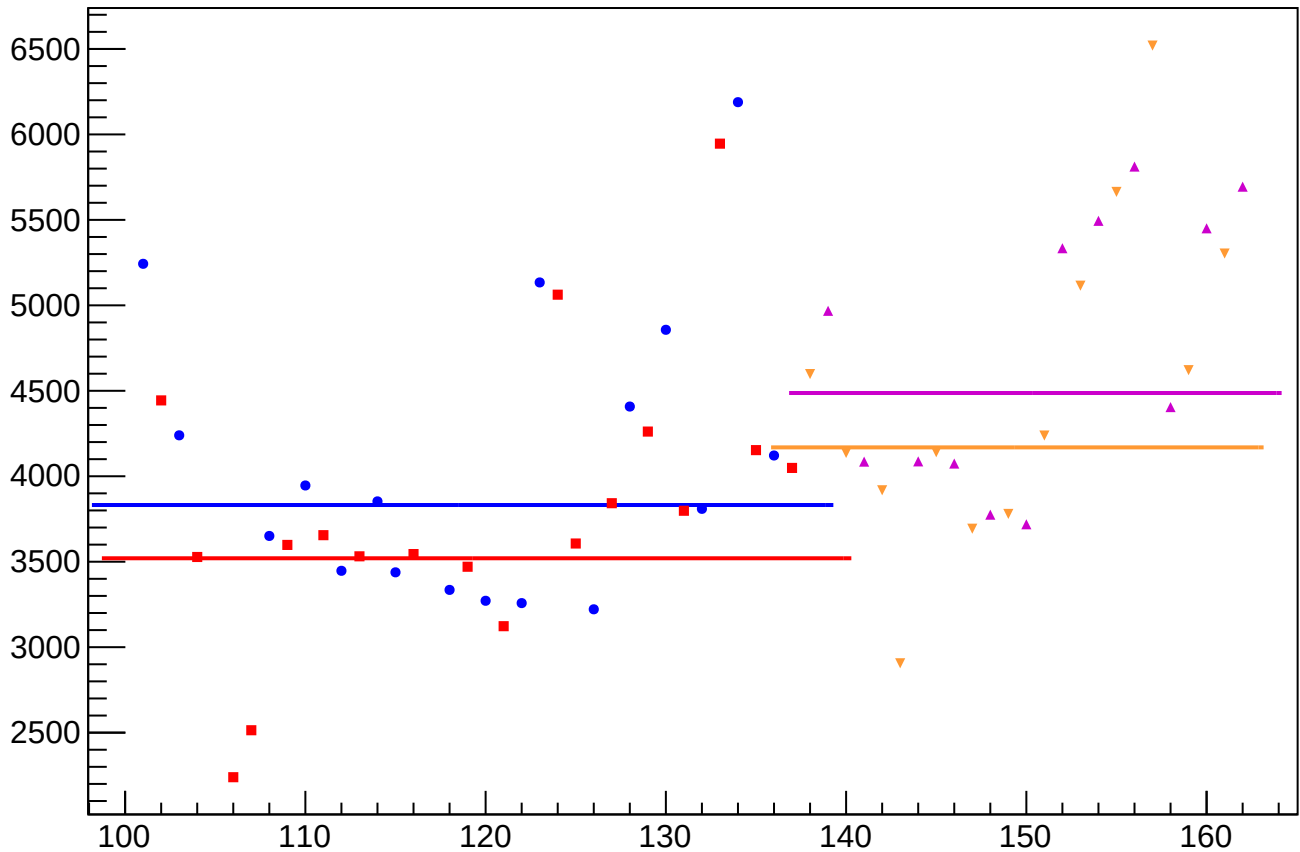
Left In:  $-798.896 \pm 1452.706$   $\chi^2/\text{NDF}$ : 9.0/11

+ sign  $-387.620 \pm 1009.024$   $\chi^2/\text{NDF}$ : 32.6/29

All:  $-133.118 \pm 710.832$   $\chi^2/\text{NDF}$ : 55.0/59

- sign  $117.630 \pm 1001.555$   $\chi^2/\text{NDF}$ : 22.2/29

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



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

Left Out: 4168.993+/-0.962  $\chi^2/\text{NDF}$ : 799684.3/12

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

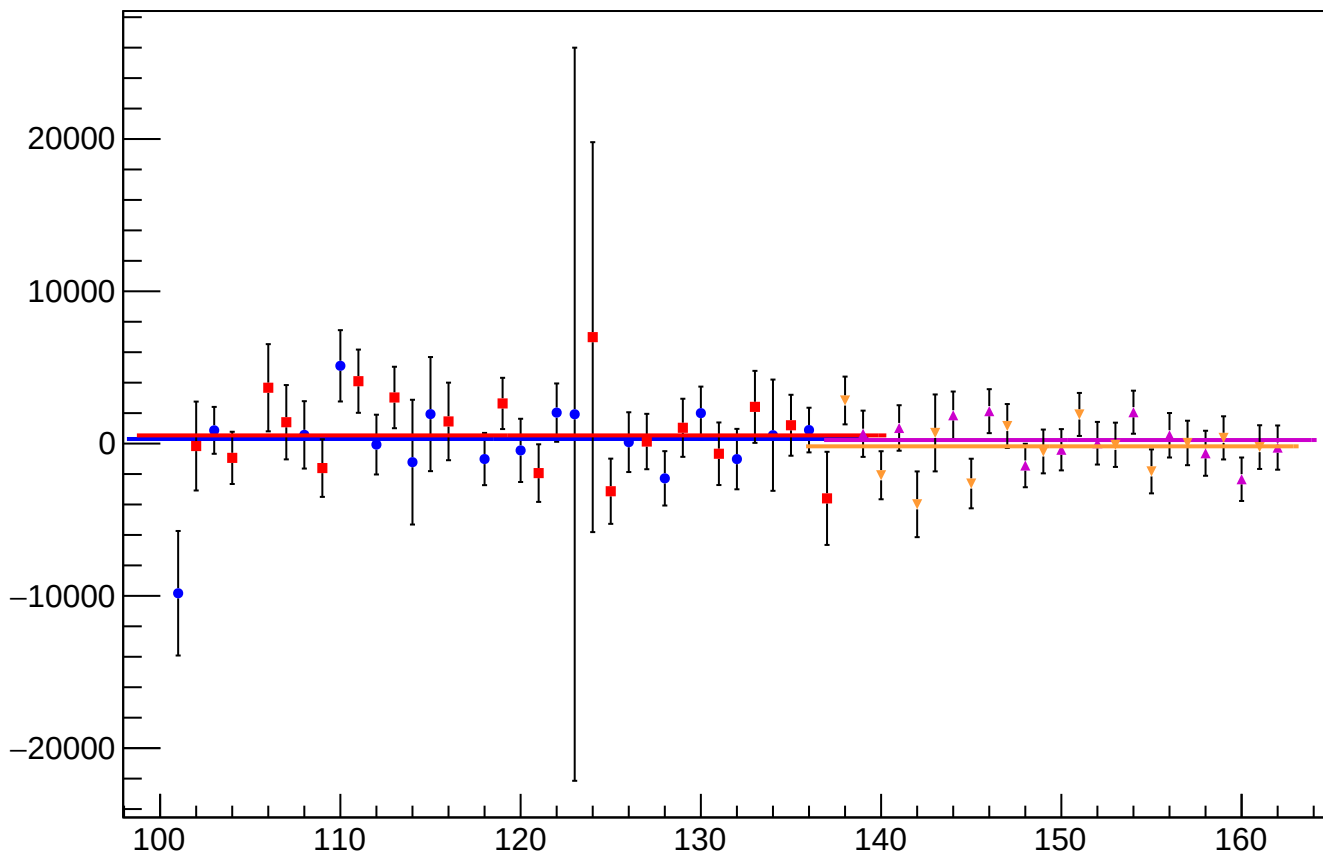
Left In: 4487.131+/-1.027  $\chi^2/\text{NDF}$ : 492473.6/11

+ sign 4017.257+/-0.713  $\chi^2/\text{NDF}$ : 1192666.1/29

All: 3996.061+/-0.501  $\chi^2/\text{NDF}$ : 2699987.4/59

- sign 3975.378+/-0.705  $\chi^2/\text{NDF}$ : 1505577.5/29

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



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

Left Out: -179.925 $\pm$ 429.233  $\chi^2$ /NDF:15.2/12

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

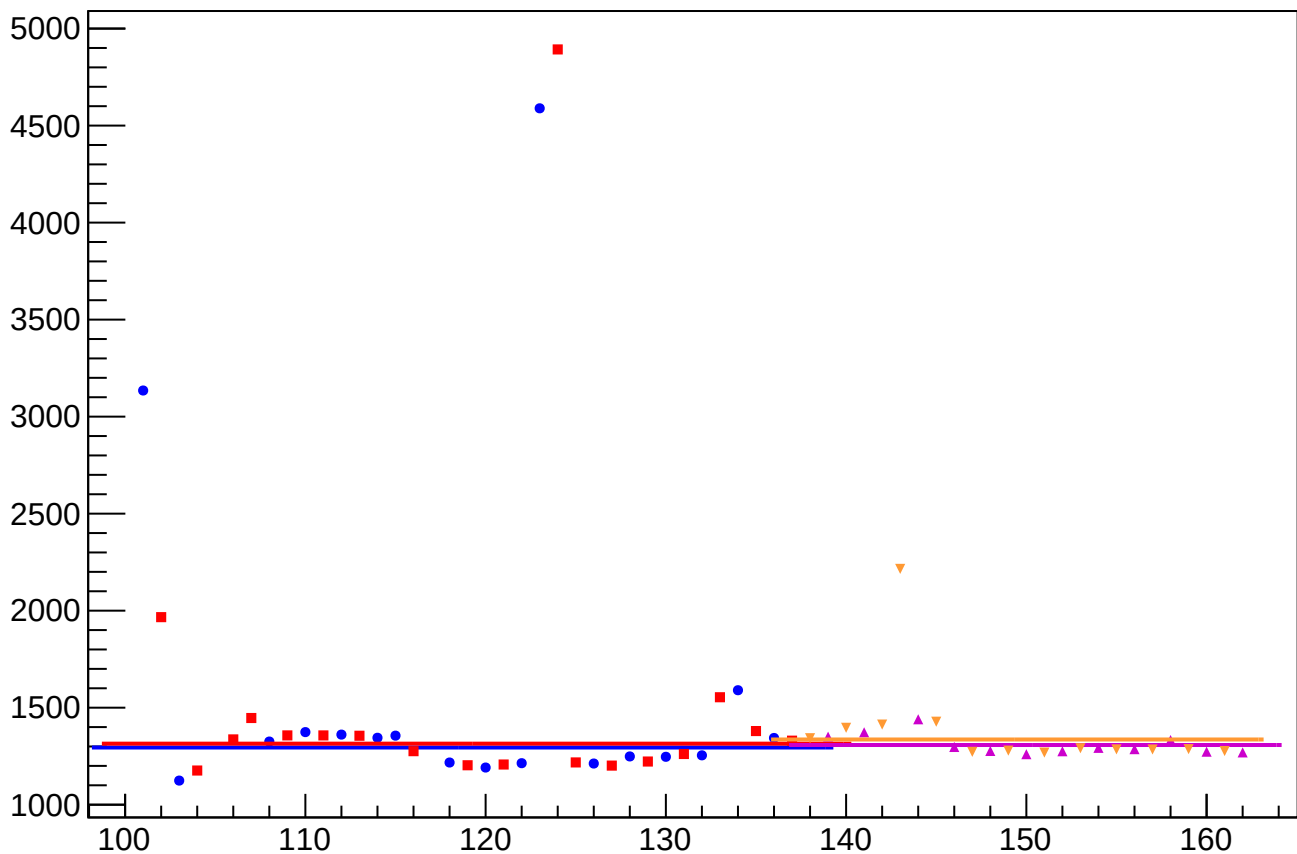
Left In: 233.109 $\pm$ 418.478  $\chi^2$ /NDF:10.2/11

+ sign 18.591 $\pm$ 329.154  $\chi^2$ /NDF: 31.8/29

All: 190.420 $\pm$ 230.603  $\chi^2$ /NDF: 60.2/59

- sign 356.059 $\pm$ 323.173  $\chi^2$ /NDF: 27.9/29

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: 1336.085 $\pm$ 0.304  $\chi^2$ /NDF: 278581.8/12

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

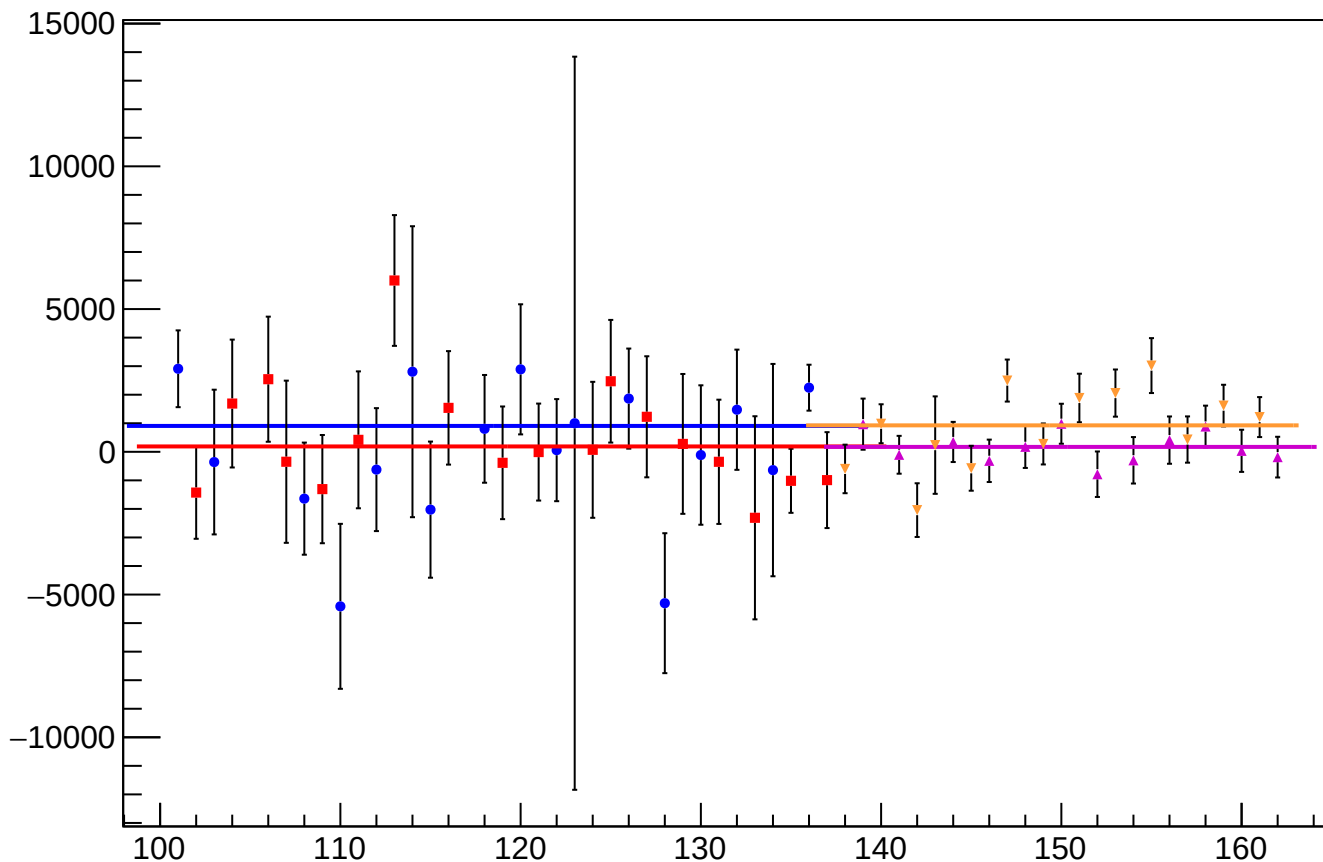
Left In: 1307.650 $\pm$ 0.296  $\chi^2$ /NDF: 28209.0/11

+ sign 1319.049 $\pm$ 0.233  $\chi^2$ /NDF: 794034.0/29

All: 1314.671 $\pm$ 0.163  $\chi^2$ /NDF: 1156998.5/59

- sign 1310.450 $\pm$ 0.229  $\chi^2$ /NDF: 362269.6/29

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



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

Left Out: 926.630 $\pm$ 224.889  $\chi^2/\text{NDF}$ : 31.7/12

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

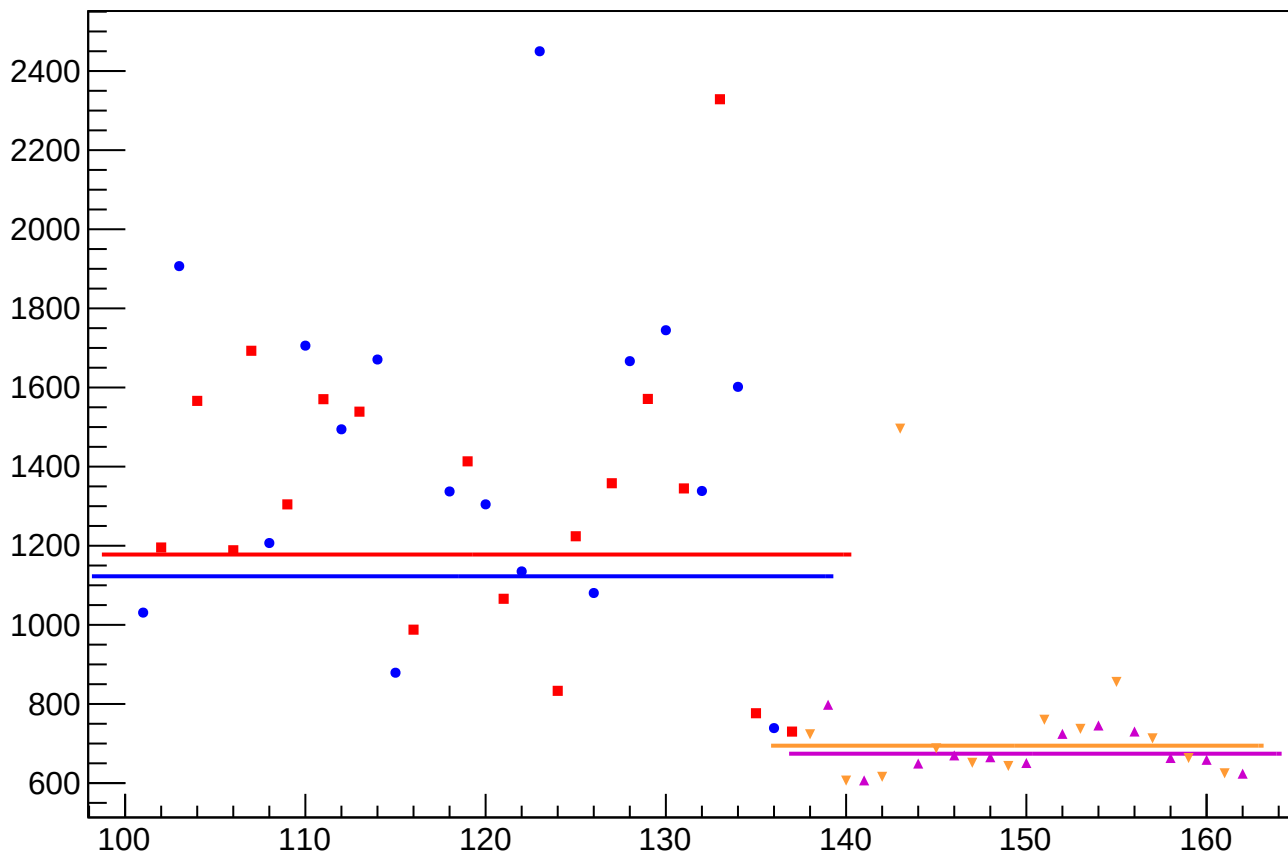
Left In: 171.941 $\pm$ 215.954  $\chi^2/\text{NDF}$ : 5.9/11

+ sign 922.727 $\pm$ 201.681  $\chi^2/\text{NDF}$ : 53.7/29

All: 537.767 $\pm$ 140.495  $\chi^2/\text{NDF}$ : 80.5/59

- sign 174.825 $\pm$ 195.828  $\chi^2/\text{NDF}$ : 19.7/29

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



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

Left Out:  $694.589 \pm 0.159$   $\chi^2/\text{NDF}: 605930.6/12$

+ sign  $778.406 \pm 0.143$   $\chi^2/\text{NDF}: 3213172.3/29$

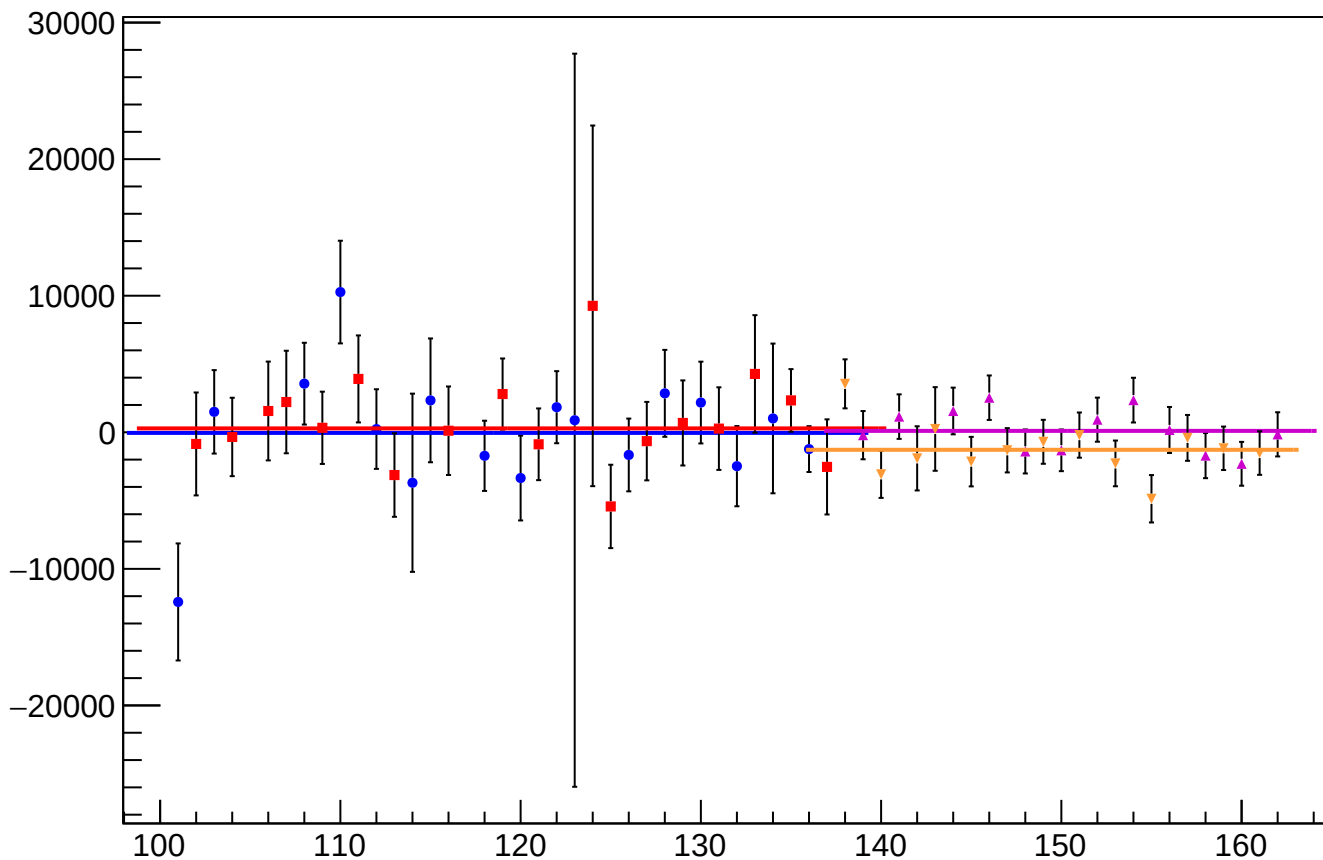
Right Out:  $1177.797 \pm 0.328$   $\chi^2/\text{NDF}: 1021710.1/17$

All:  $770.878 \pm 0.099$   $\chi^2/\text{NDF}: 6280052.6/59$

- sign  $763.781 \pm 0.138$   $\chi^2/\text{NDF}: 3061466.6/29$

Left In:  $674.306 \pm 0.153$   $\chi^2/\text{NDF}: 107788.5/11$

# 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:  $-1281.540 \pm 487.913$   $\chi^2/\text{NDF}$ : 14.3/12

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

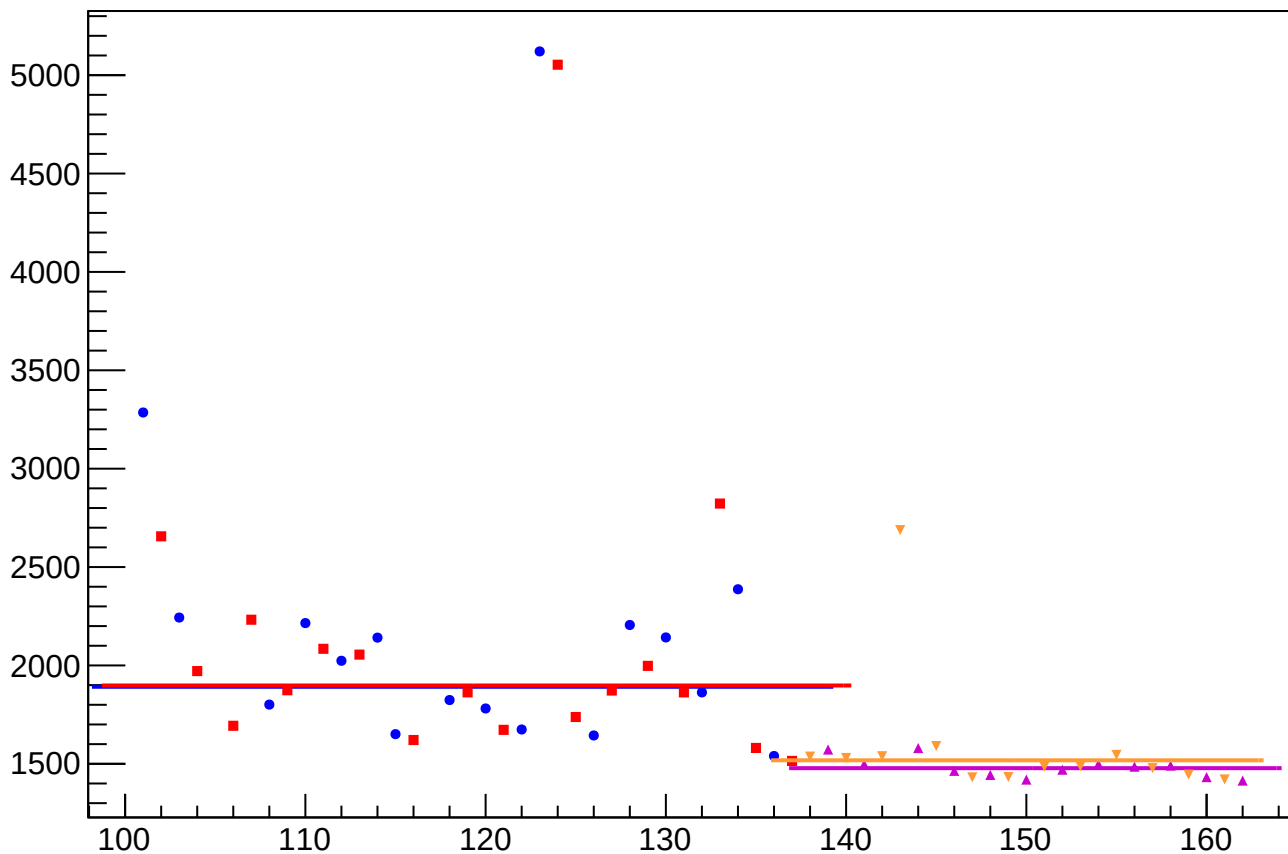
Left In:  $103.231 \pm 472.678$   $\chi^2/\text{NDF}$ : 10.8/11

+ sign  $-911.980 \pm 408.592$   $\chi^2/\text{NDF}$ : 39.5/29

All:  $-363.217 \pm 284.961$   $\chi^2/\text{NDF}$ : 64.4/59

- sign  $156.481 \pm 397.624$   $\chi^2/\text{NDF}$ : 21.4/29

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



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

Left Out: 1517.834+/-0.345  $\chi^2/\text{NDF}$ : 321483.5/12

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

Left In: 1477.867+/-0.334  $\chi^2/\text{NDF}$ : 22304.0/11

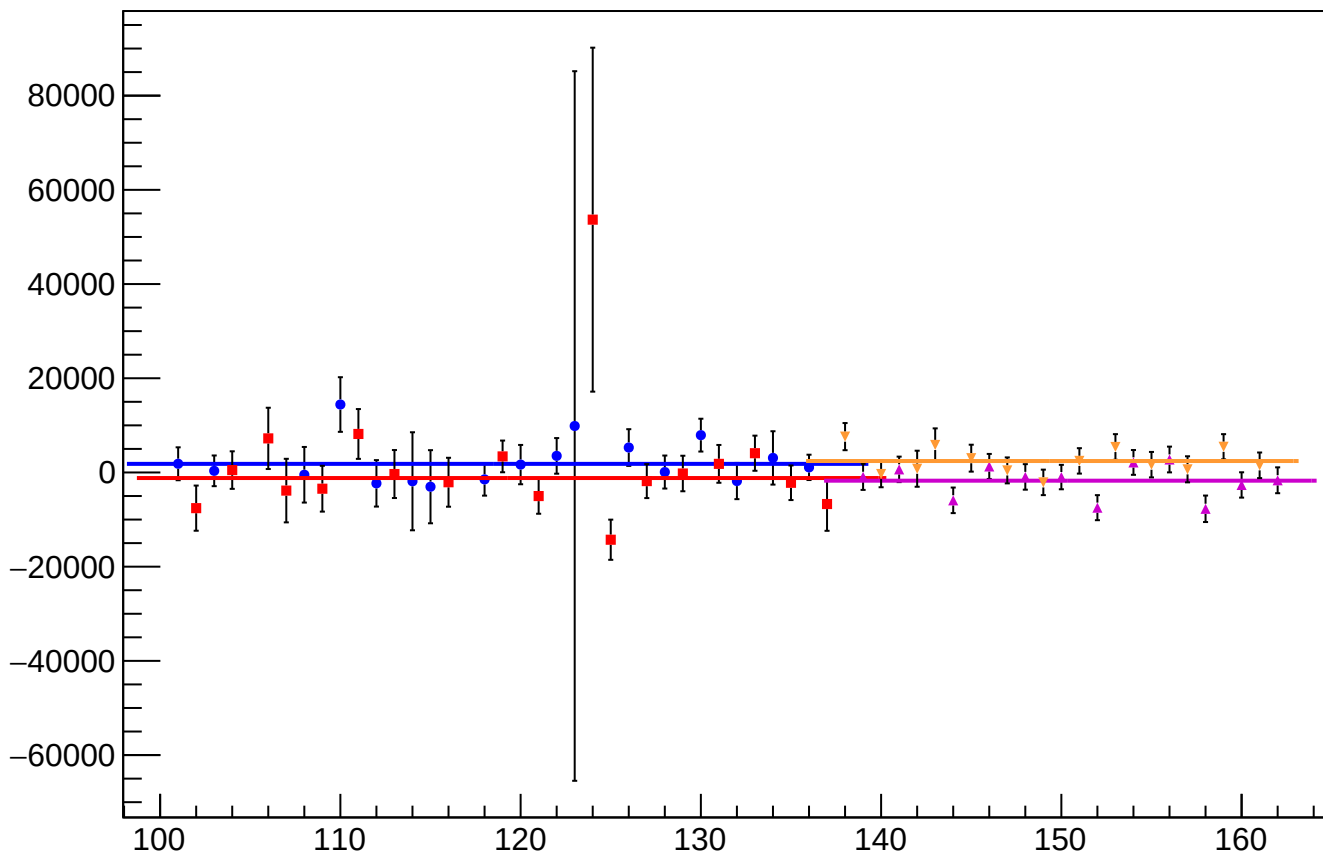
+ sign 1629.504+/-0.289  $\chi^2/\text{NDF}$ : 1141292.2/29

All: 1614.711+/-0.201  $\chi^2/\text{NDF}$ : 2054363.6/59

- sign 1600.700+/-0.281  $\chi^2/\text{NDF}$ : 907966.6/29



# dit\_asym\_atl1\_mean vs Slug



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

Left Out:  $2428.369 \pm 790.384$   $\chi^2/\text{NDF}$ : 11.8/12

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

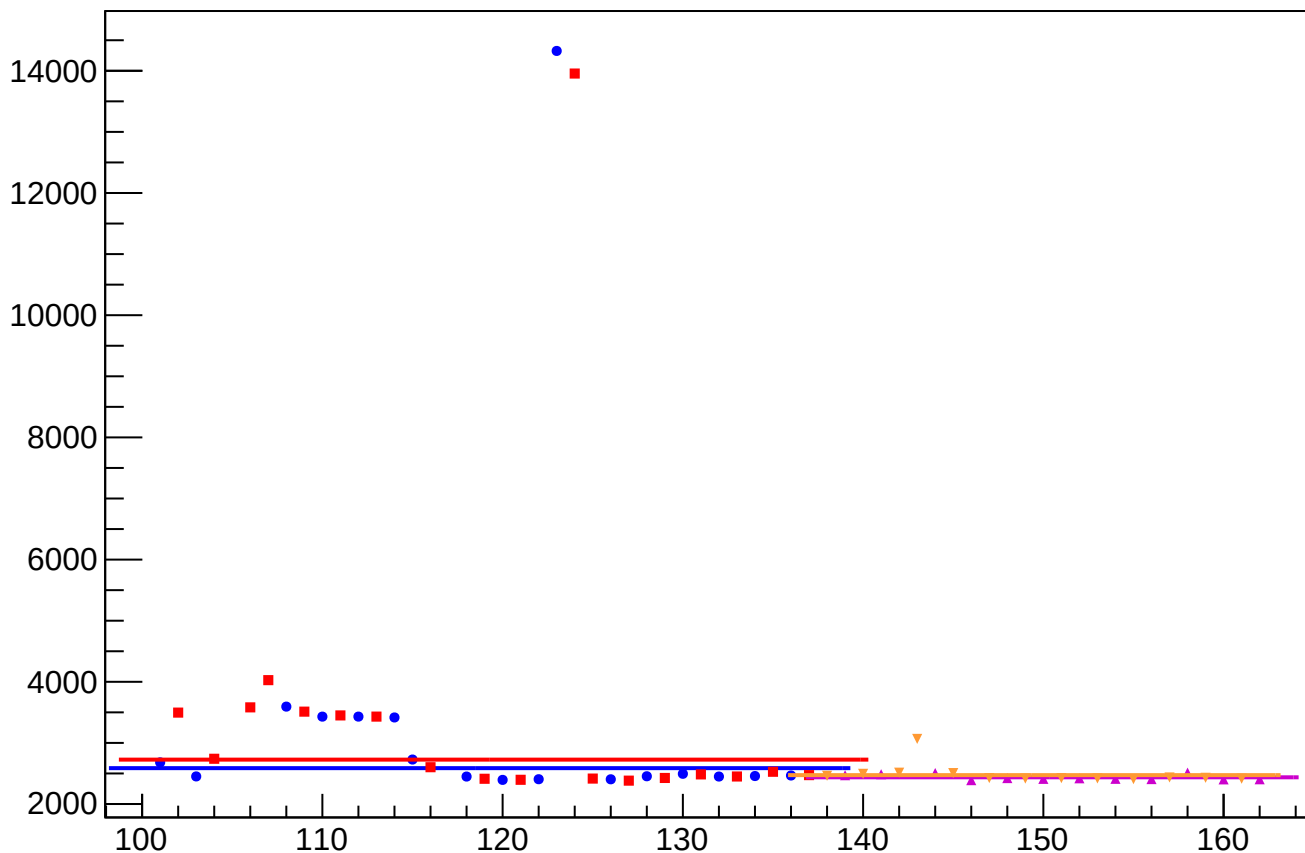
Left In:  $-1745.567 \pm 779.603$   $\chi^2/\text{NDF}$ : 18.8/11

+ sign  $2199.269 \pm 622.486$   $\chi^2/\text{NDF}$ : 24.5/29

All:  $337.153 \pm 441.373$   $\chi^2/\text{NDF}$ : 87.0/59

- sign  $-1545.560 \pm 625.919$   $\chi^2/\text{NDF}$ : 44.5/29

# dit\_asym\_atl1\_rms vs Slug



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

Left Out: 2472.632 $\pm$ 0.559  $\chi^2$ /NDF: 63303.9/12

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

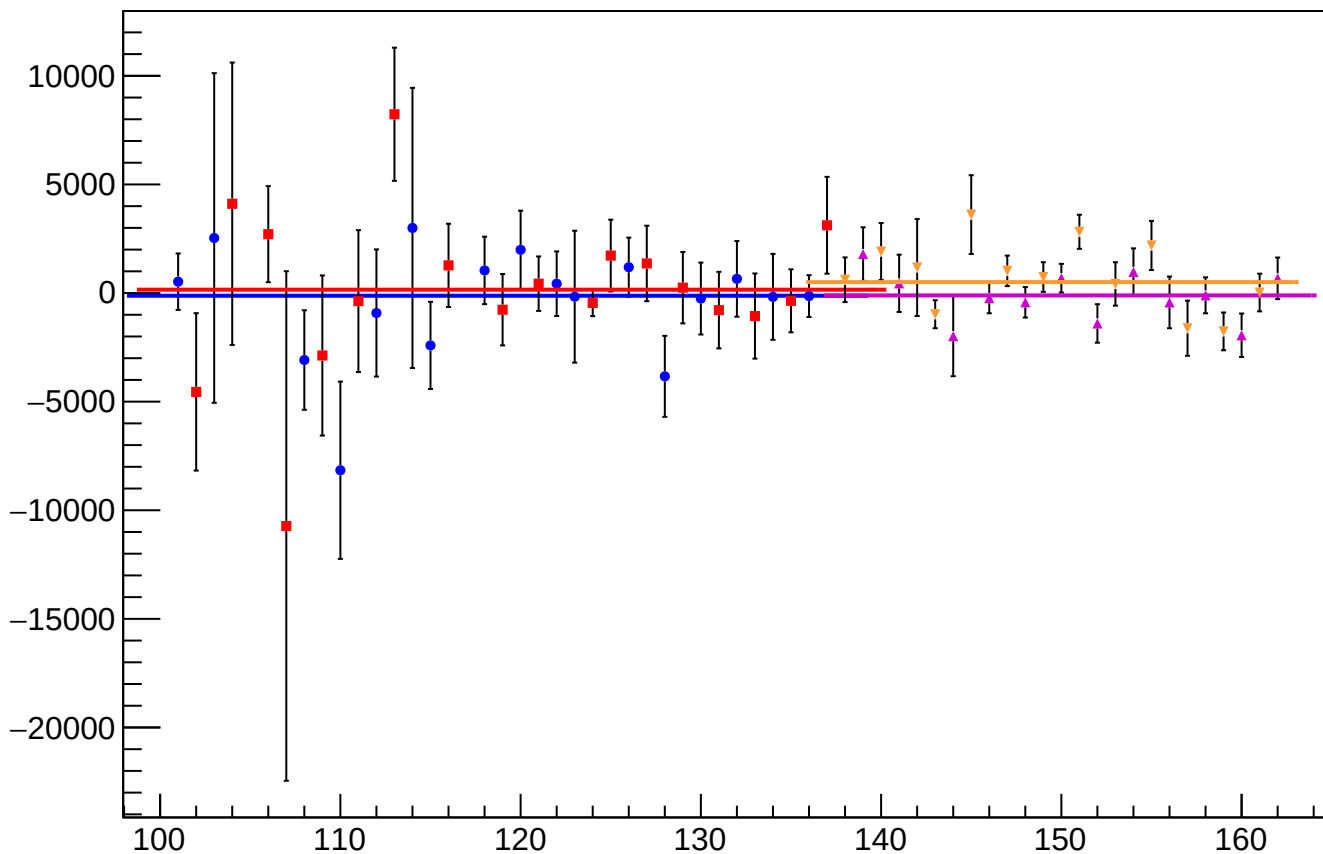
Left In: 2437.021 $\pm$ 0.551  $\chi^2$ /NDF: 5714.7/11

+ sign 2516.052 $\pm$ 0.440  $\chi^2$ /NDF: 333311.9/29

All: 2527.904 $\pm$ 0.312  $\chi^2$ /NDF: 1019308.1/59

- sign 2539.887 $\pm$ 0.443  $\chi^2$ /NDF: 684538.2/29

# asym\_atl1\_correction\_mean vs Slug



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

Left Out:  $504.141 \pm 255.707$   $\chi^2/\text{NDF}: 31.0/12$

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

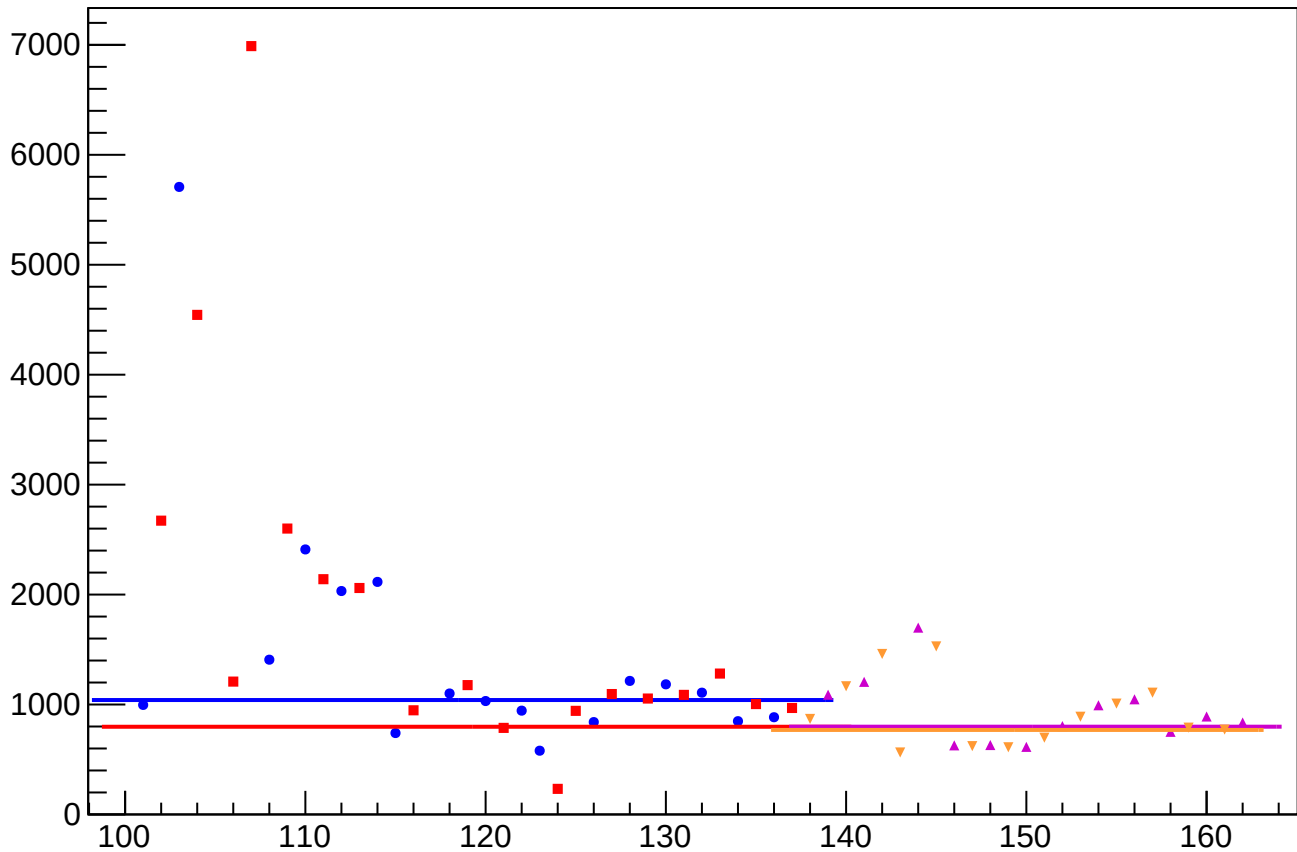
Left In:  $-108.203 \pm 264.611$   $\chi^2/\text{NDF}: 12.5/11$

+ sign  $340.347 \pm 219.884$   $\chi^2/\text{NDF}: 47.2/29$

All:  $156.712 \pm 154.568$   $\chi^2/\text{NDF}: 79.0/59$

- sign  $-22.671 \pm 217.322$   $\chi^2/\text{NDF}: 30.4/29$

# asym\_atl1\_correction\_rms vs Slug



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

Left Out: 768.712 $\pm$ 0.181  $\chi^2$ /NDF: 1420689.8/12

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

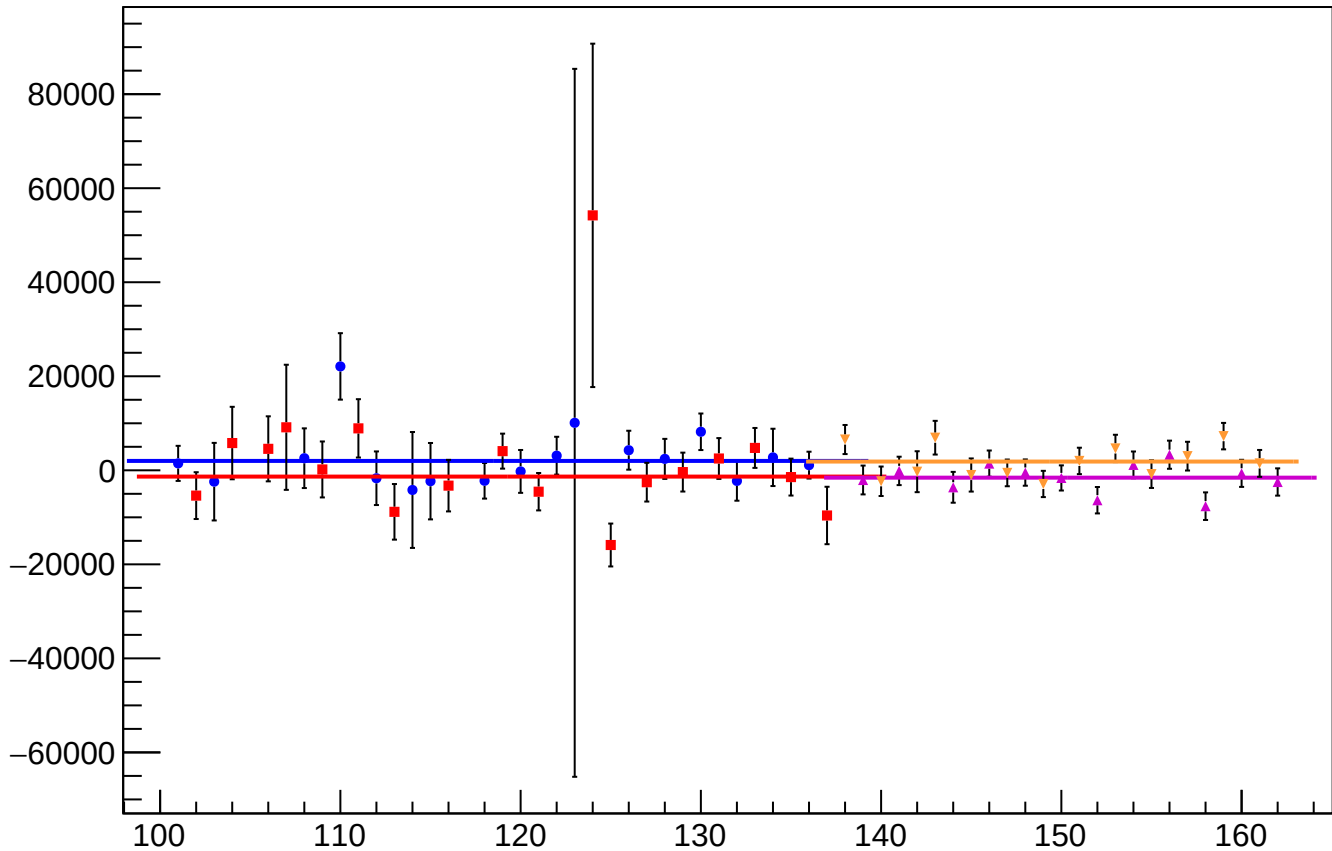
Left In: 798.305 $\pm$ 0.187  $\chi^2$ /NDF: 1345278.0/11

+ sign 839.598 $\pm$ 0.155  $\chi^2$ /NDF: 3583586.3/29

All: 818.615 $\pm$ 0.109  $\chi^2$ /NDF: 10139202.9/59

- sign 798.118 $\pm$ 0.154  $\chi^2$ /NDF: 6519613.0/29

# asym\_atl1\_mean vs Slug



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

Left Out: 1861.142+/-849.390  $\chi^2/\text{NDF}$ : 16.2/12

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

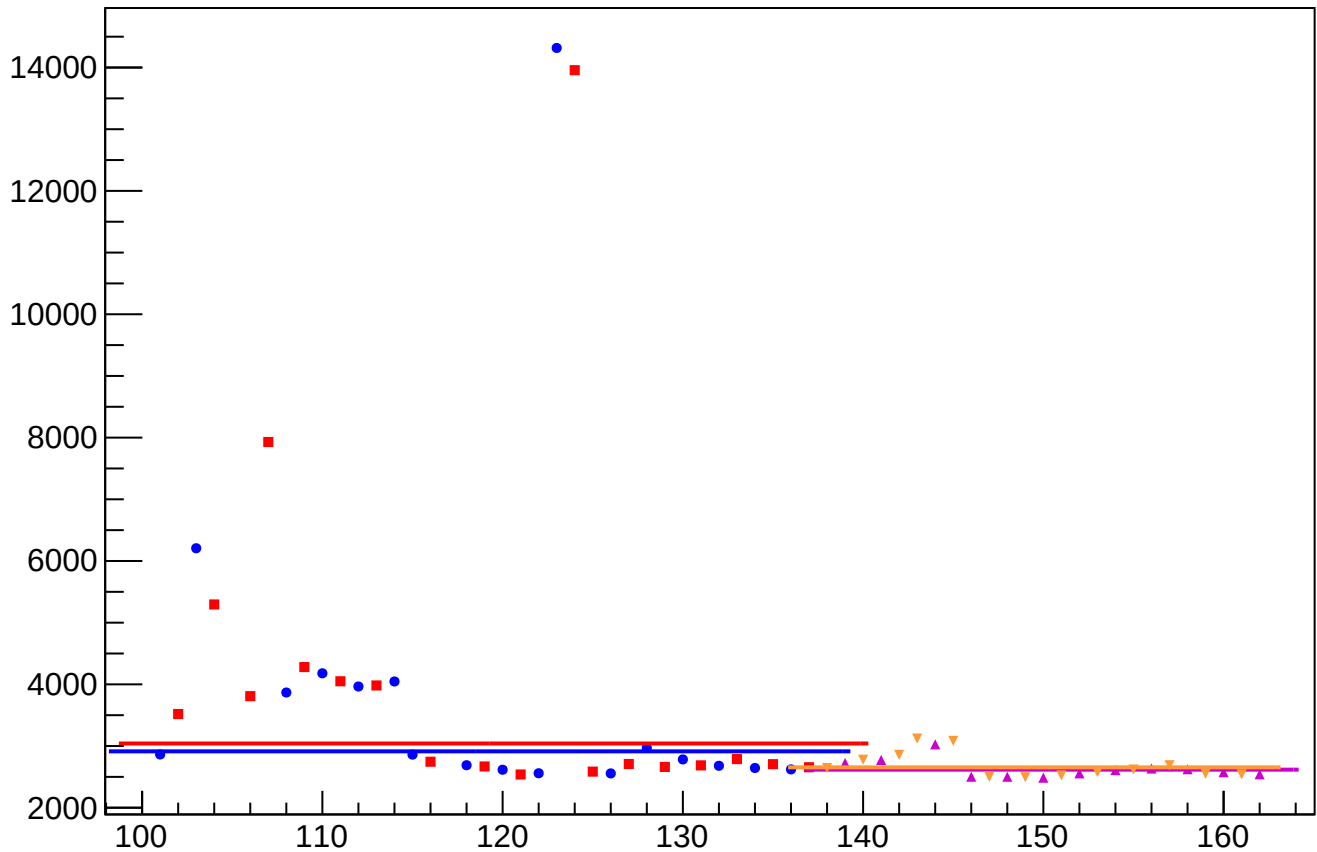
Left In: -1565.420+/-838.287  $\chi^2/\text{NDF}$ : 12.9/11

+ sign 1908.566+/-684.288  $\chi^2/\text{NDF}$ : 31.2/29

All: 213.670+/-484.479  $\chi^2/\text{NDF}$ : 83.9/59

- sign -1489.856+/-686.028  $\chi^2/\text{NDF}$ : 40.4/29

# asym\_atl1\_rms vs Slug



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

Left Out: 2654.618+/-0.601  $\chi^2$ /NDF: 95618.1/12

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

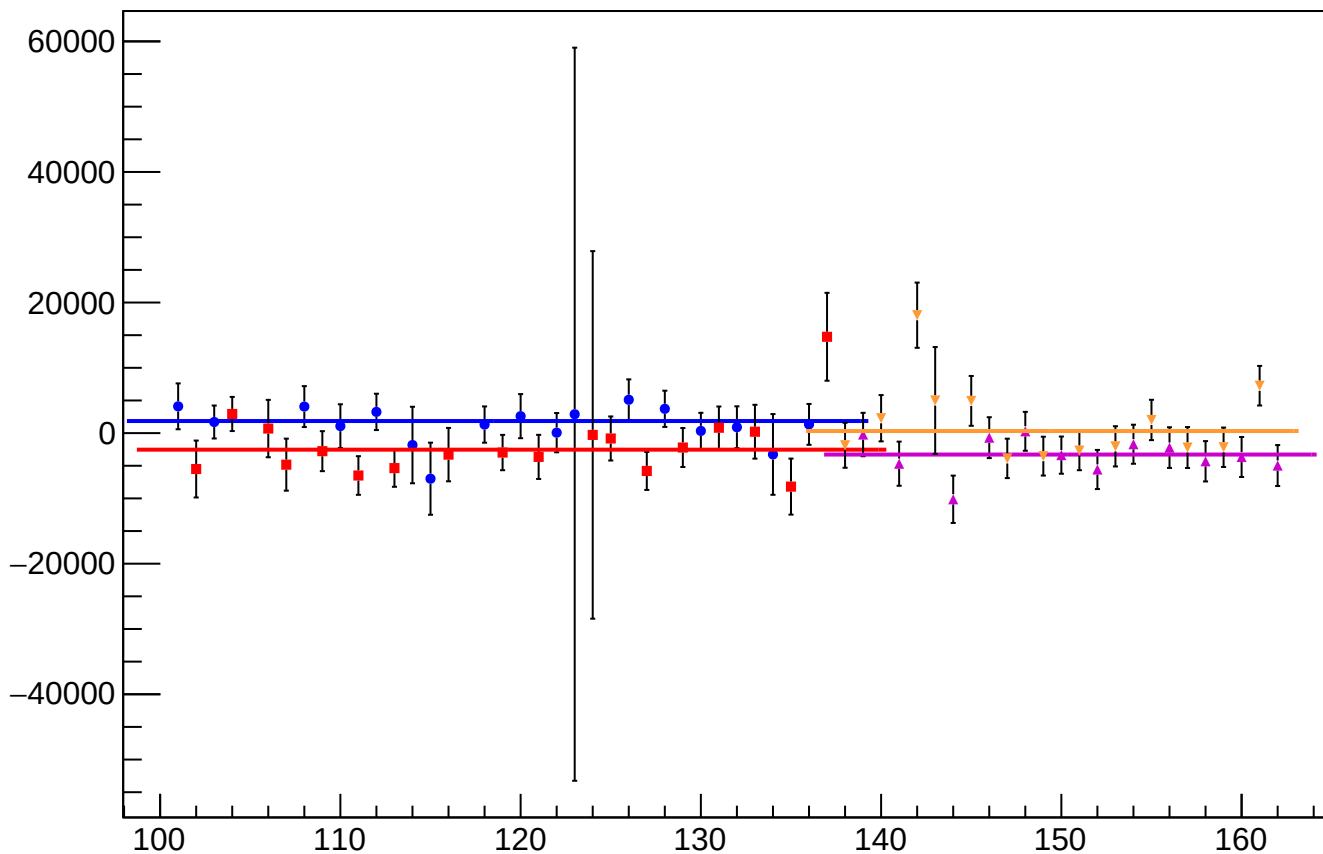
Left In: 2616.945+/-0.593  $\chi^2$ /NDF: 53458.8/11

+ sign 2745.610+/-0.484  $\chi^2$ /NDF: 799998.6/29

All: 2751.327+/-0.343  $\chi^2$ /NDF: 2026531.1/59

- sign 2757.074+/-0.485  $\chi^2$ /NDF: 1226252.5/29

# dit\_asym\_atl2\_mean vs Slug



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

Left Out:  $317.629 \pm 931.611$   $\chi^2/\text{NDF}$ : 27.2/12

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

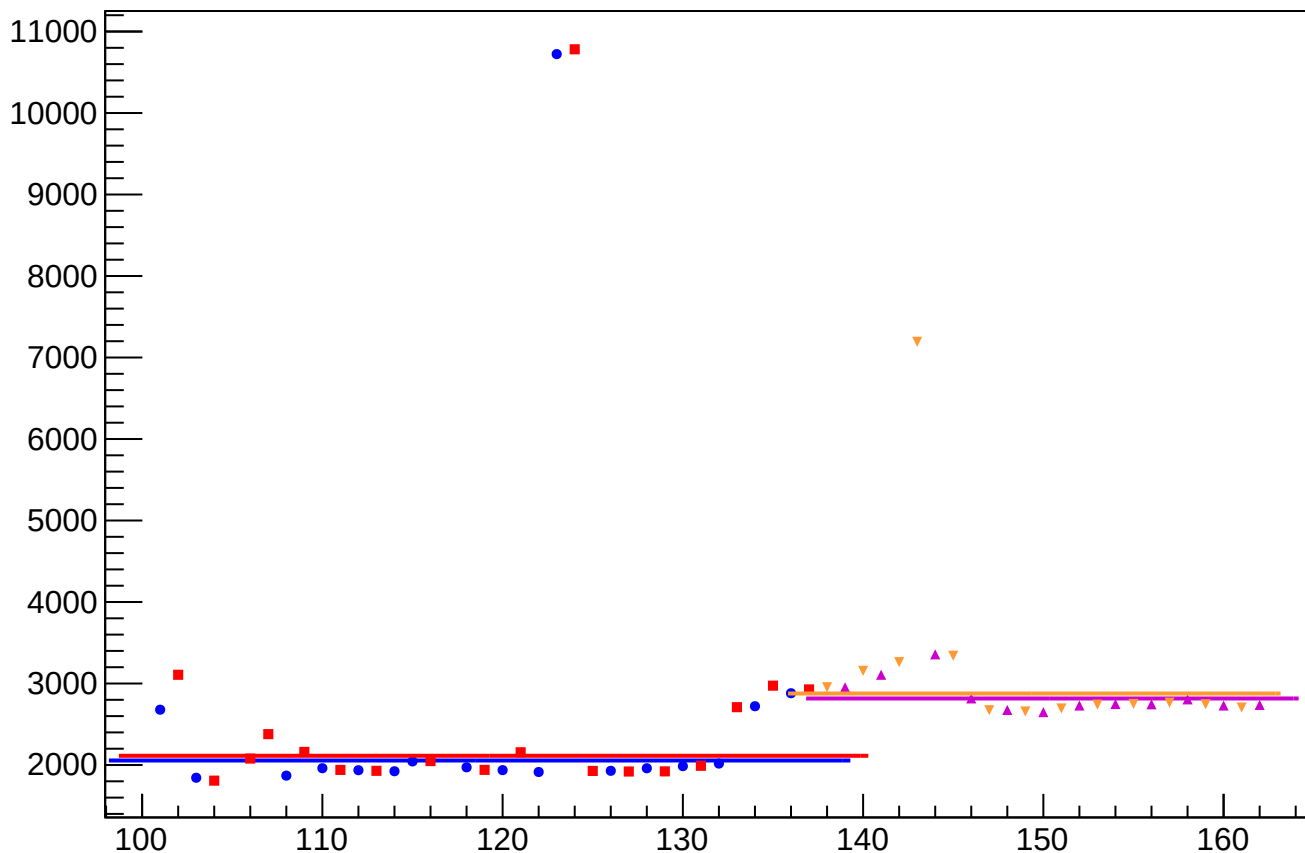
Left In:  $-3283.017 \pm 901.210$   $\chi^2/\text{NDF}$ : 8.1/11

+ sign  $1193.360 \pm 609.866$   $\chi^2/\text{NDF}$ : 36.0/29

All:  $-852.248 \pm 429.951$   $\chi^2/\text{NDF}$ : 86.8/59

- sign  $-2873.577 \pm 606.236$   $\chi^2/\text{NDF}$ : 28.5/29

# dit\_asym\_atl2\_rms vs Slug



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

Left Out: 2877.308+/-0.659  $\chi^2/\text{NDF}$ : 658161.2/12

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

Left In: 2816.279+/-0.637  $\chi^2/\text{NDF}$ : 80851.3/11

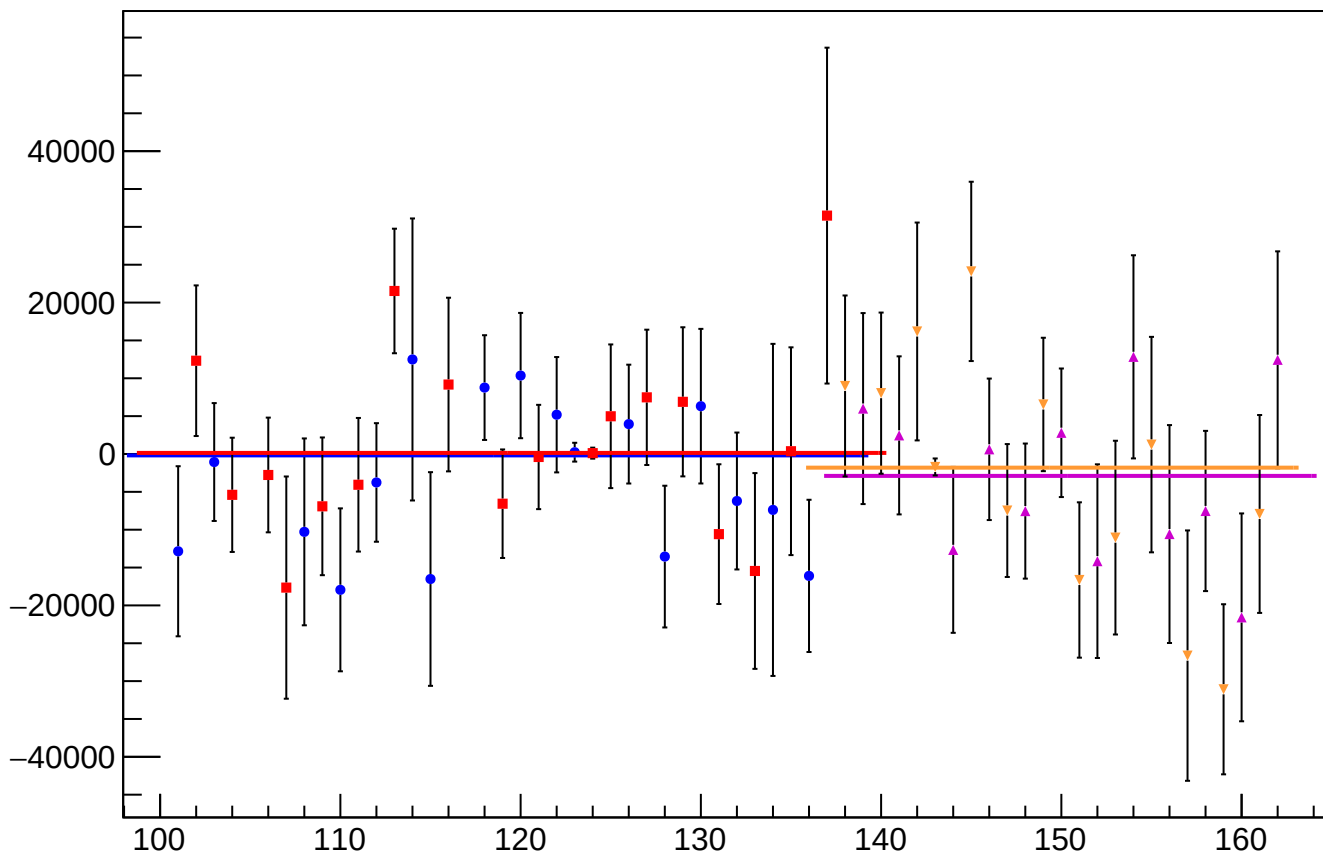
+ sign 2407.653+/-0.431  $\chi^2/\text{NDF}$ : 1864027.9/29

All: 2419.348+/-0.304  $\chi^2/\text{NDF}$ : 3145492.8/59

- sign 2430.886+/-0.428  $\chi^2/\text{NDF}$ : 1280003.9/29



# asym\_atl2\_correction\_mean vs Slug



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

Left Out:  $-1804.766 \pm 1062.624$   $\chi^2/\text{NDF}$ : 21.3/12

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

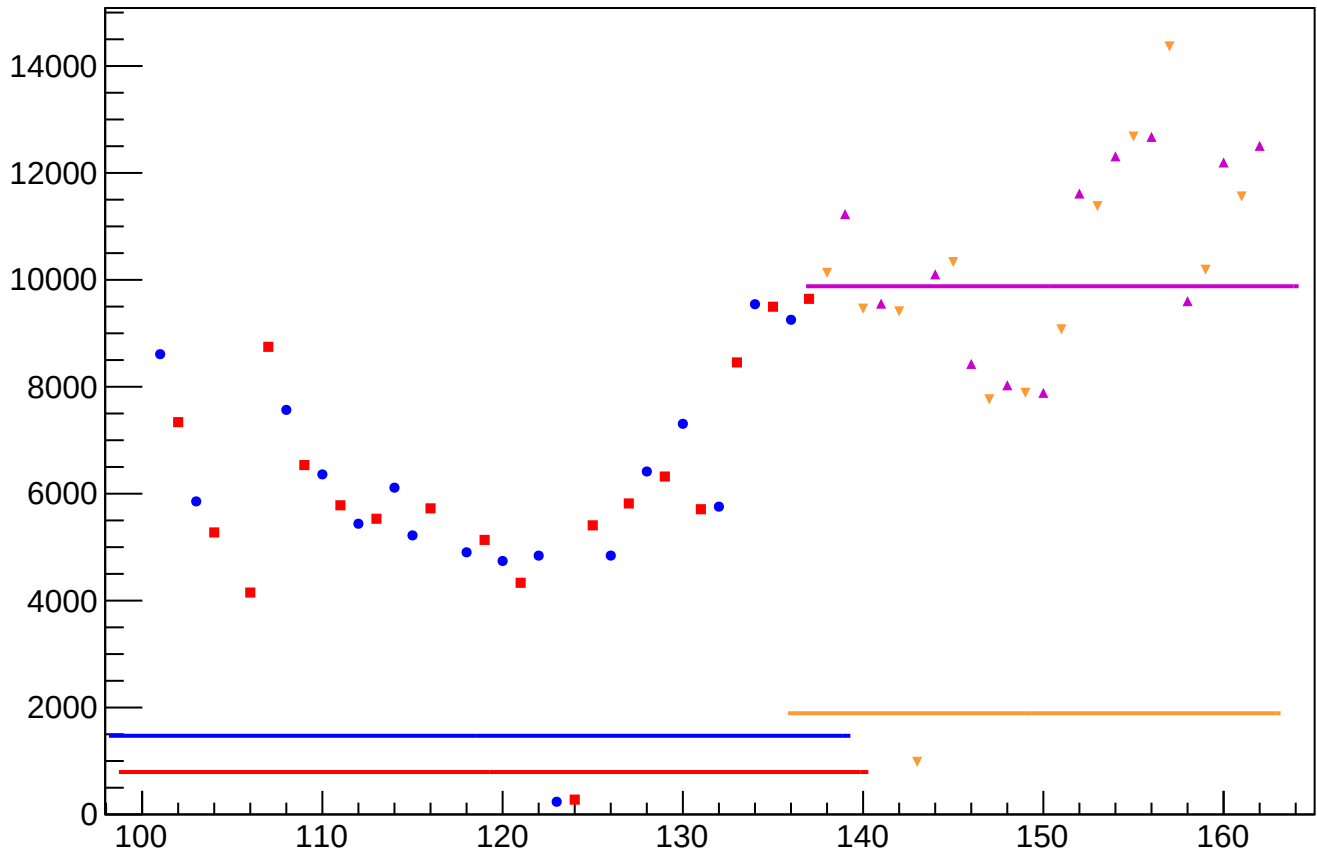
Left In:  $-2893.182 \pm 3206.077$   $\chi^2/\text{NDF}$ : 8.0/11

+ sign  $-1023.560 \pm 764.522$   $\chi^2/\text{NDF}$ : 38.8/29

All:  $-444.672 \pm 506.200$   $\chi^2/\text{NDF}$ : 67.6/59

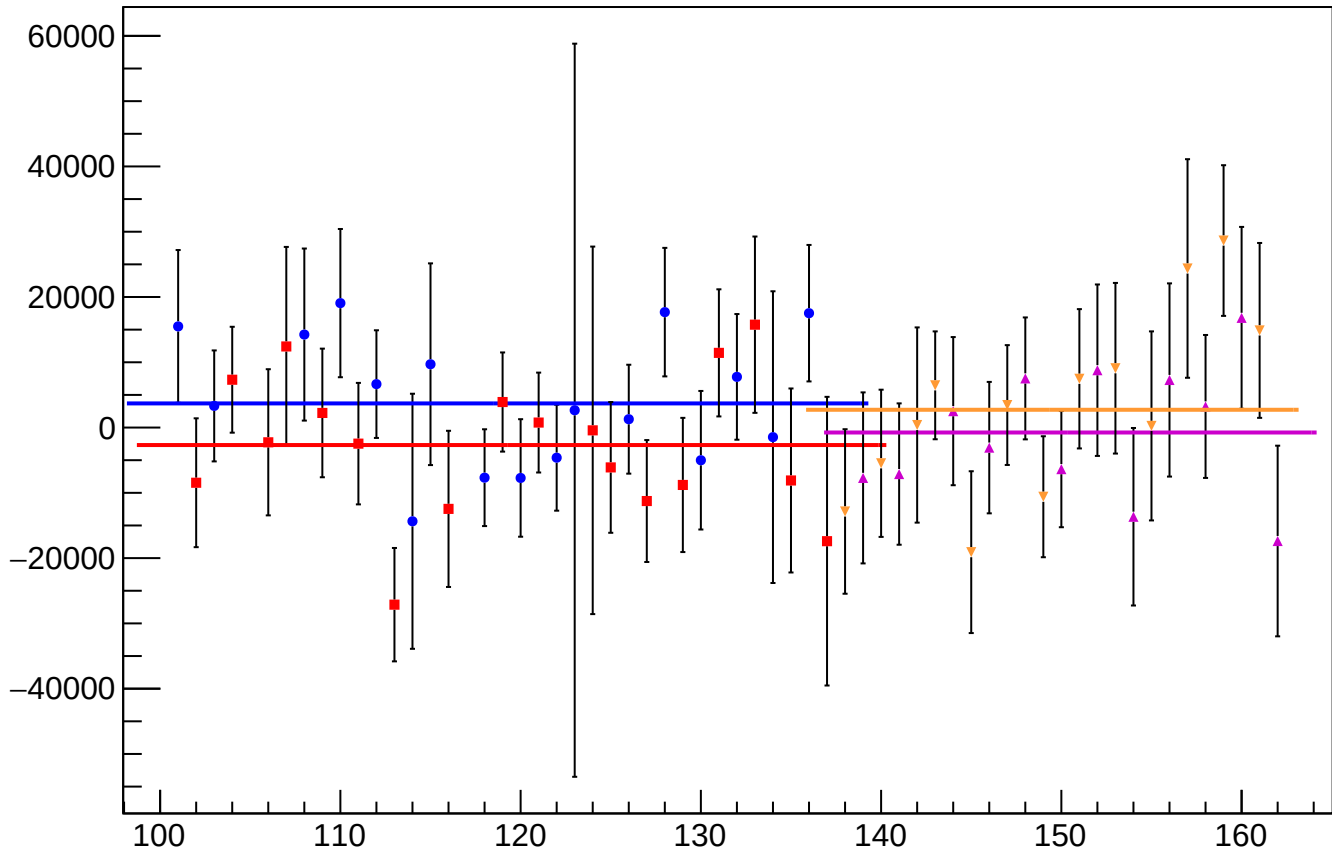
- sign  $7.212 \pm 675.470$   $\chi^2/\text{NDF}$ : 27.9/29

# asym\_atl2\_correction\_rms vs Slug



|                            |                                     |                         |                                     |
|----------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Right In: 1471.609+/-0.778 | $\chi^2/\text{NDF}$ : 9788255.4/16  | + sign 1689.812+/-0.541 | $\chi^2/\text{NDF}$ : 23149006.2/29 |
| Left Out: 1893.151+/-0.751 | $\chi^2/\text{NDF}$ : 13208930.0/12 | All: 1413.050+/-0.358   | $\chi^2/\text{NDF}$ : 50965210.2/5  |
| Right Out: 793.659+/-0.489 | $\chi^2/\text{NDF}$ : 11422584.5/17 | - sign 1197.008+/-0.478 | $\chi^2/\text{NDF}$ : 27349511.4/29 |
| Left In: 9880.579+/-2.267  | $\chi^2/\text{NDF}$ : 573787.5/11   |                         |                                     |

# asym\_atl2\_mean vs Slug



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

Left Out: 2723.934+/-3172.354  $\chi^2/\text{NDF}$ : 15.5/12

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

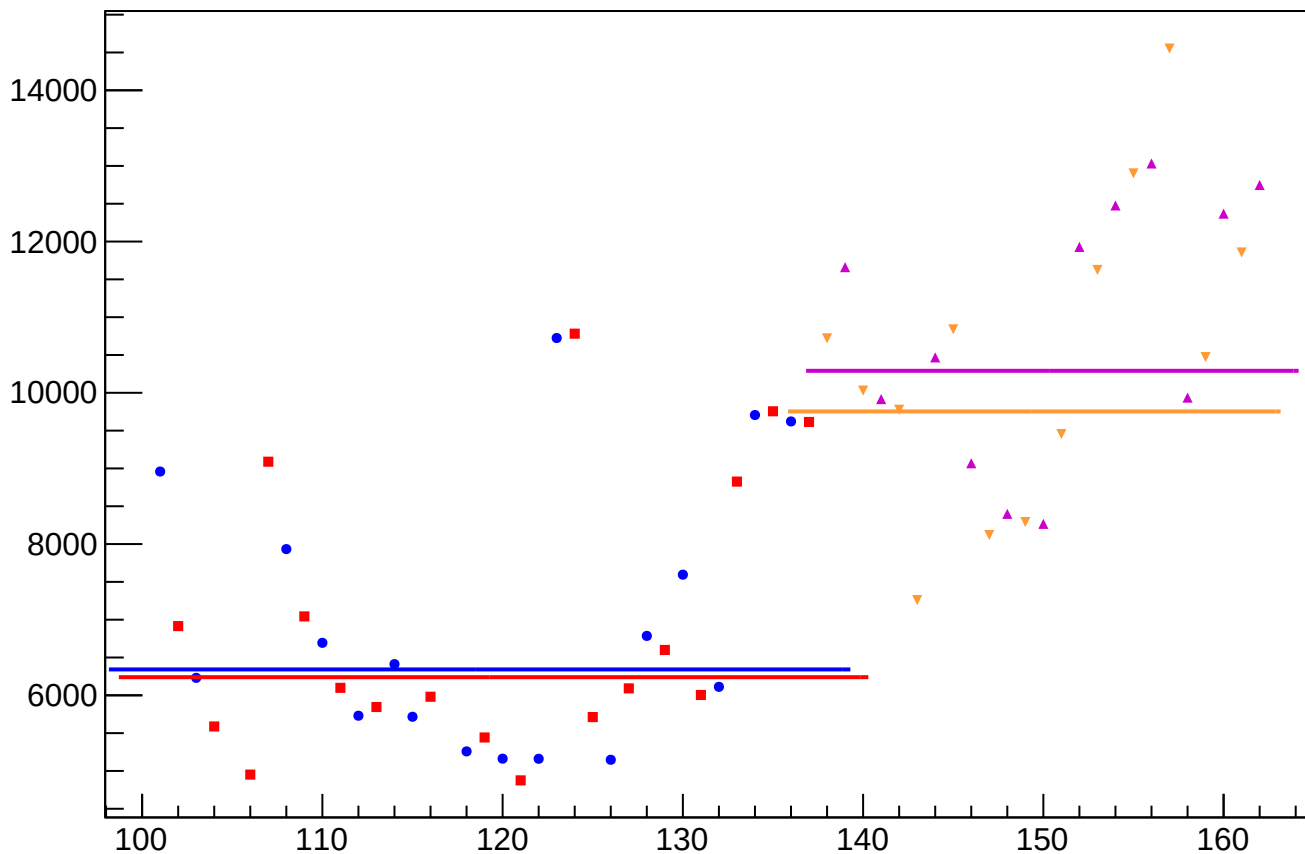
Left In: -757.329+/-3332.536  $\chi^2/\text{NDF}$ : 6.7/11

+ sign 3321.796+/-1972.218  $\chi^2/\text{NDF}$ : 29.9/29

All: 641.678+/-1391.205  $\chi^2/\text{NDF}$ : 59.0/59

- sign -2012.733+/-1962.738  $\chi^2/\text{NDF}$ : 25.4/29

# asym\_atl2\_rms vs Slug



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

Left Out:  $9753.705 \pm 2.243$   $\chi^2/\text{NDF}$ : 682145.7/12

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

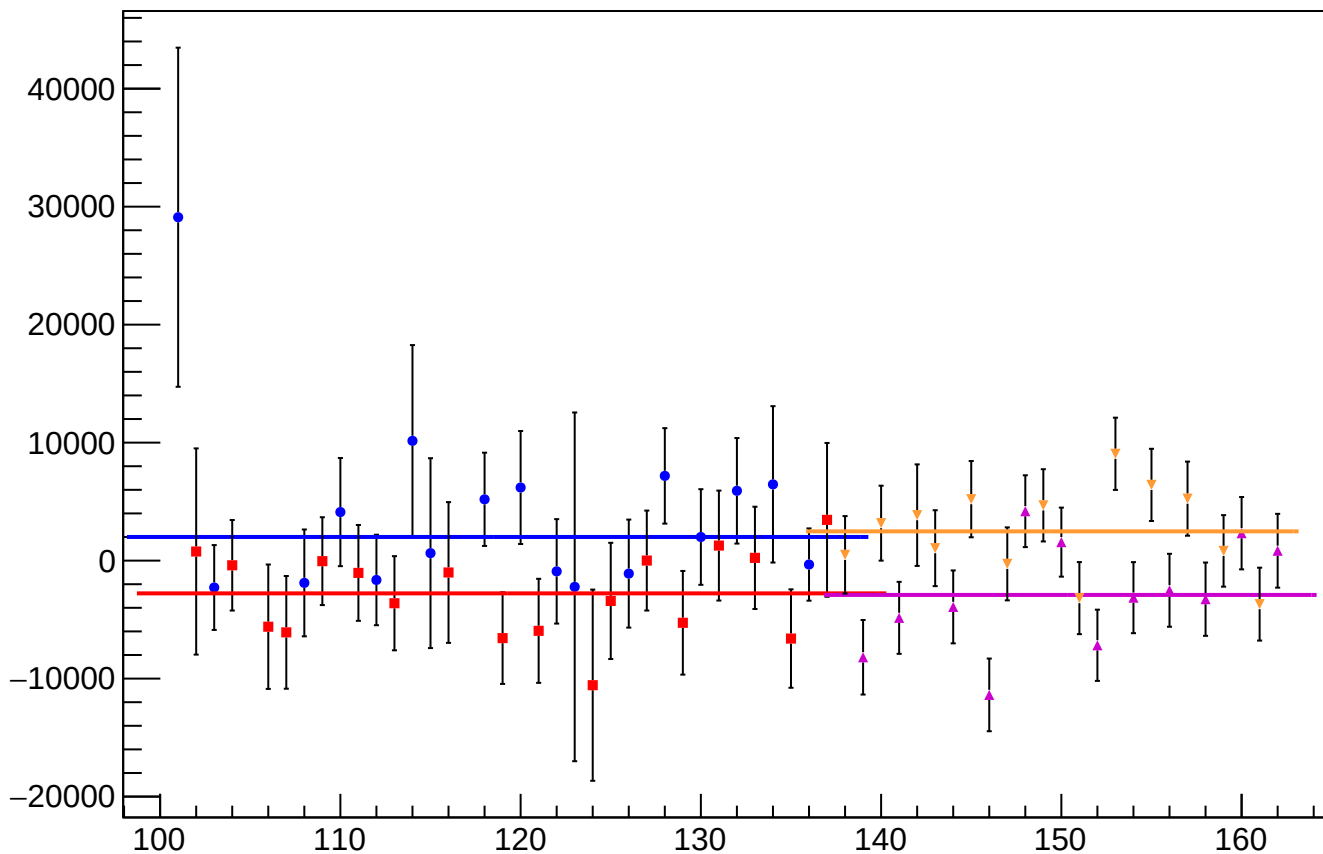
Left In:  $10290.876 \pm 2.356$   $\chi^2/\text{NDF}$ : 494365.0/11

+ sign  $7660.809 \pm 1.395$   $\chi^2/\text{NDF}$ : 2694690.2/29

All:  $7652.810 \pm 0.984$   $\chi^2/\text{NDF}$ : 5648759.9/59

- sign  $7644.889 \pm 1.388$   $\chi^2/\text{NDF}$ : 2954004.2/29

# dit\_asym\_atr1\_mean vs Slug



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

Left Out: 2479.827 $\pm$ 882.042  $\chi^2$ /NDF:17.5/12

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

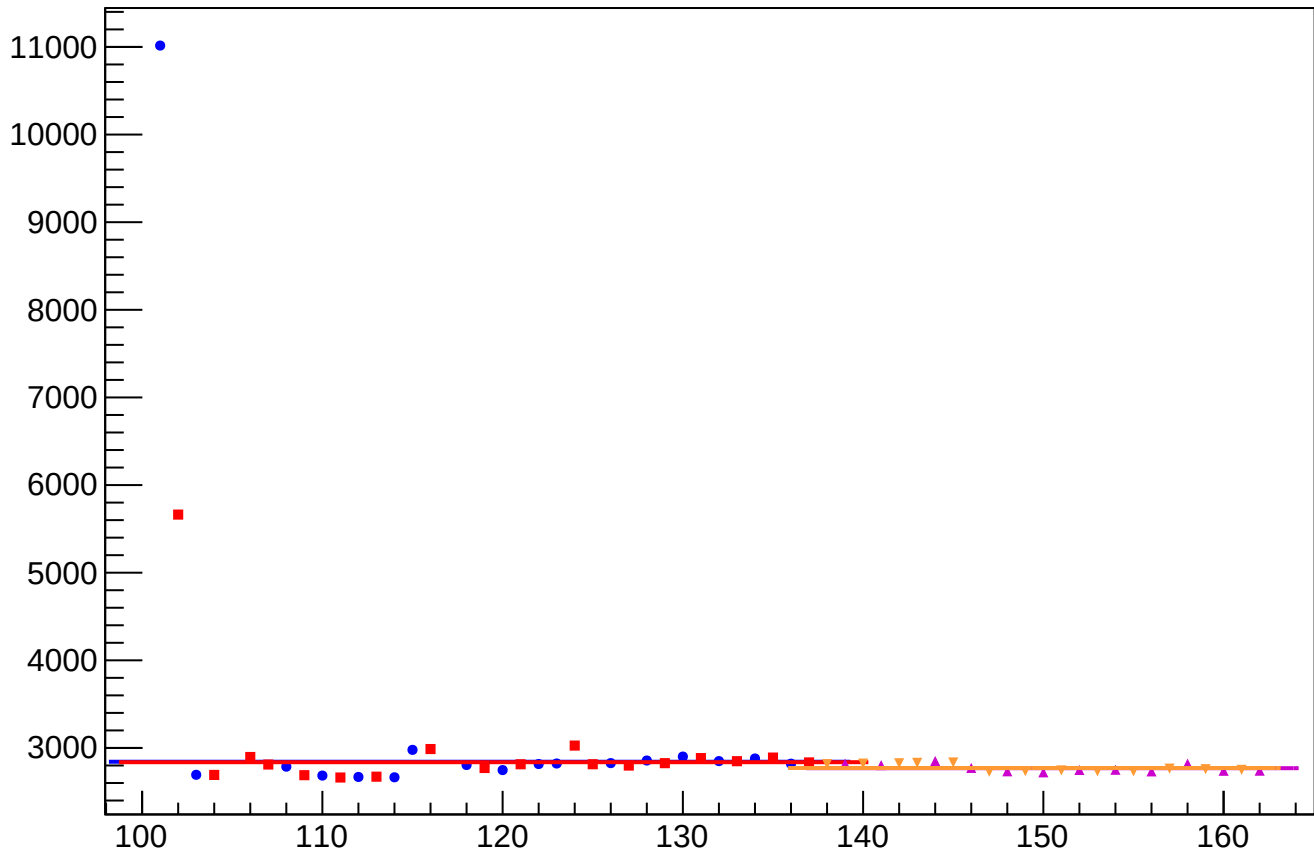
Left In: -2908.063 $\pm$ 884.061  $\chi^2$ /NDF:25.0/11

+ sign 2298.992 $\pm$ 694.232  $\chi^2$ /NDF: 31.3/29

All: -309.687 $\pm$ 487.893  $\chi^2$ /NDF: 92.6/59

- sign -2855.492 $\pm$ 685.815  $\chi^2$ /NDF: 33.4/29

# dit\_asym\_atr1\_rms vs Slug



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

Left Out: 2771.116+/-0.624  $\chi^2/\text{NDF}$ : 4210.5/12

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

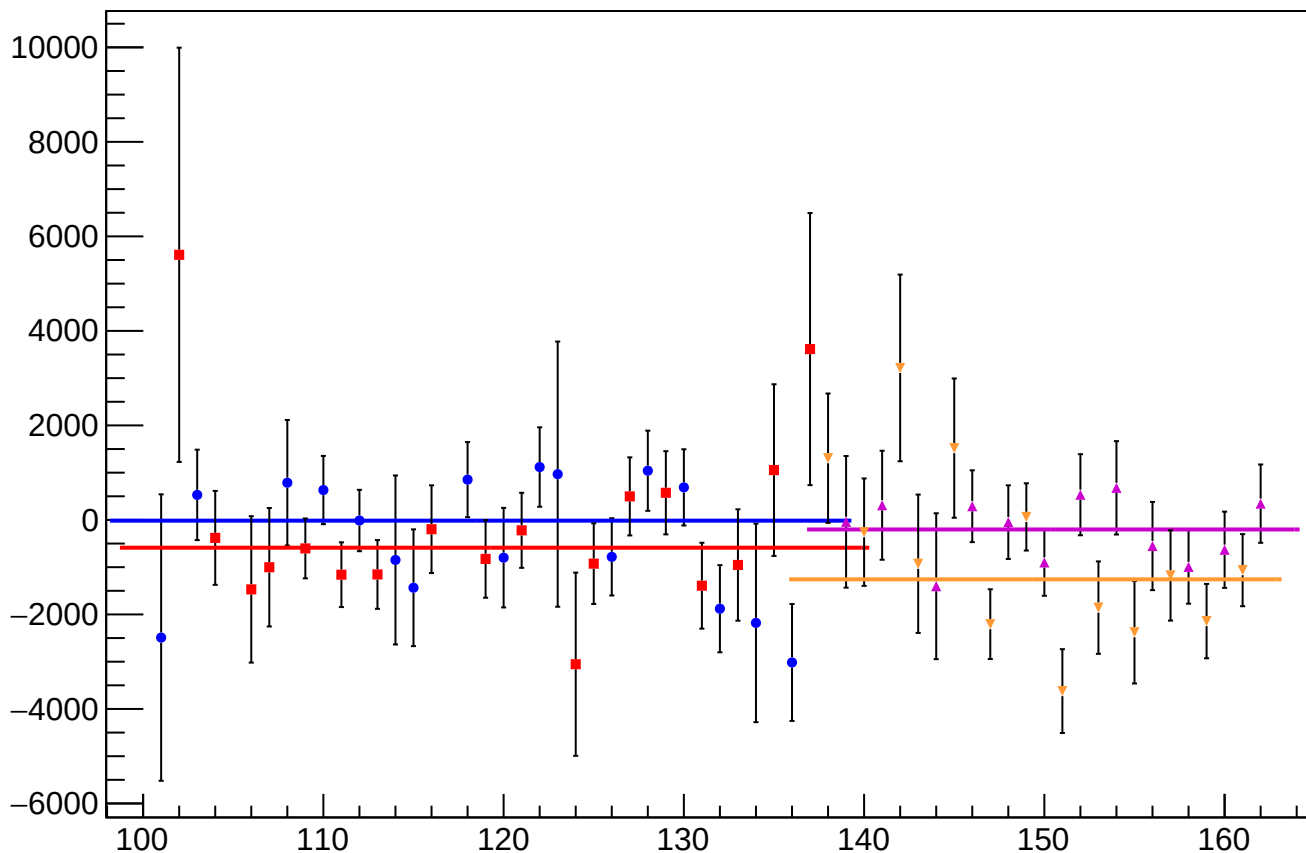
Left In: 2769.034+/-0.625  $\chi^2/\text{NDF}$ : 4343.5/11

+ sign 2798.327+/-0.491  $\chi^2/\text{NDF}$ : 669518.1/29

All: 2797.288+/-0.345  $\chi^2/\text{NDF}$ : 905060.5/59

- sign 2796.273+/-0.485  $\chi^2/\text{NDF}$ : 235533.6/29

# asym\_atr1\_correction\_mean vs Slug



Right In:  $-15.631 \pm 238.862$   $\chi^2/\text{NDF}$ : 21.6/16

Left Out:  $-1257.209 \pm 268.243$   $\chi^2/\text{NDF}$ : 28.0/12

Right Out:  $-587.609 \pm 225.811$   $\chi^2/\text{NDF}$ : 13.3/17

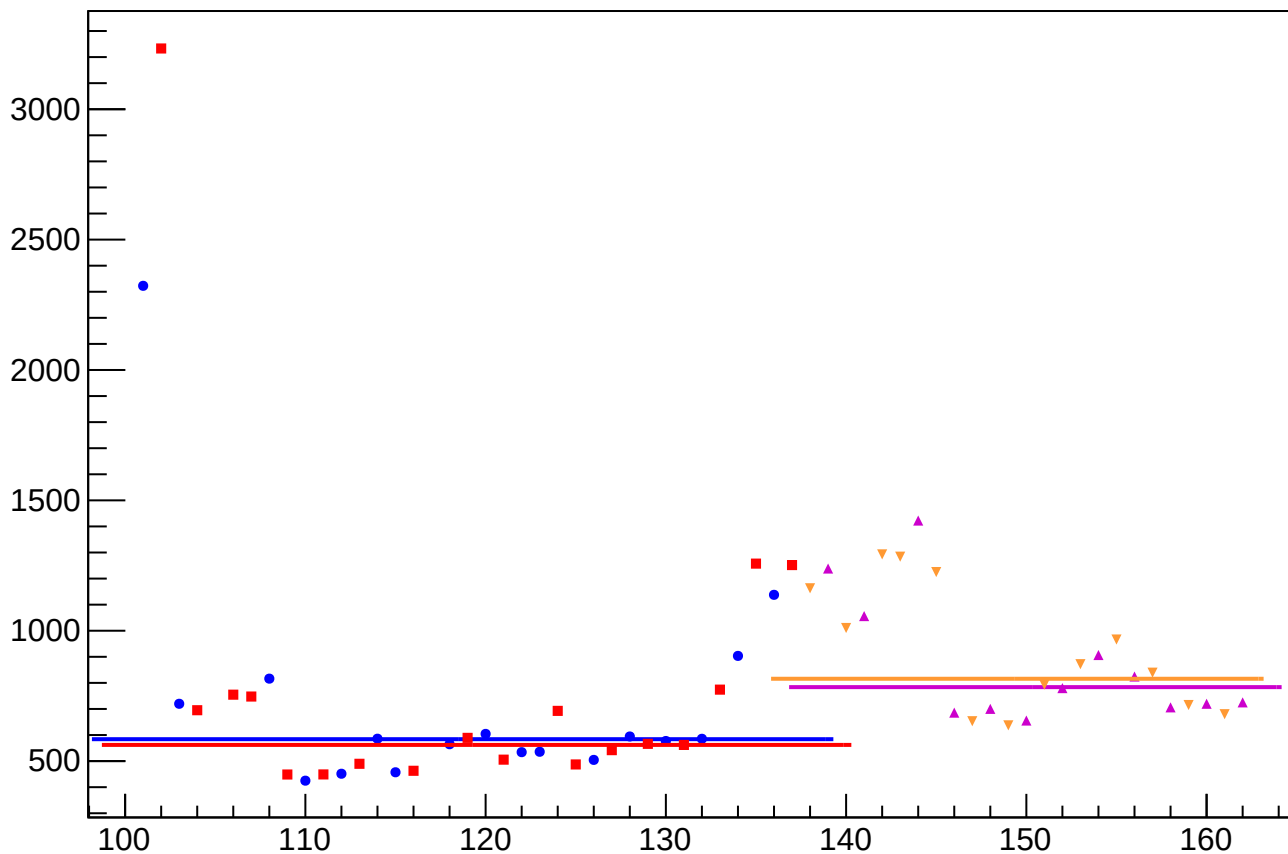
Left In:  $-202.062 \pm 256.063$   $\chi^2/\text{NDF}$ : 5.7/11

+ sign  $-564.725 \pm 178.388$   $\chi^2/\text{NDF}$ : 61.5/29

All:  $-488.054 \pm 122.824$   $\chi^2/\text{NDF}$ : 82.2/59

- sign  $-418.945 \pm 169.363$   $\chi^2/\text{NDF}$ : 20.3/29

# asym\_atr1\_correction\_rms vs Slug



Right In: 584.055+/-0.169  $\chi^2/\text{NDF}$ : 1436613.4/16

Left Out: 815.809+/-0.190  $\chi^2/\text{NDF}$ :1030049.4/12

Right Out: 562.122+/-0.160  $\chi^2/\text{NDF}$ : 1525298.9/17

Left In: 783.705+/-0.181  $\chi^2/\text{NDF}$ :866900.4/11

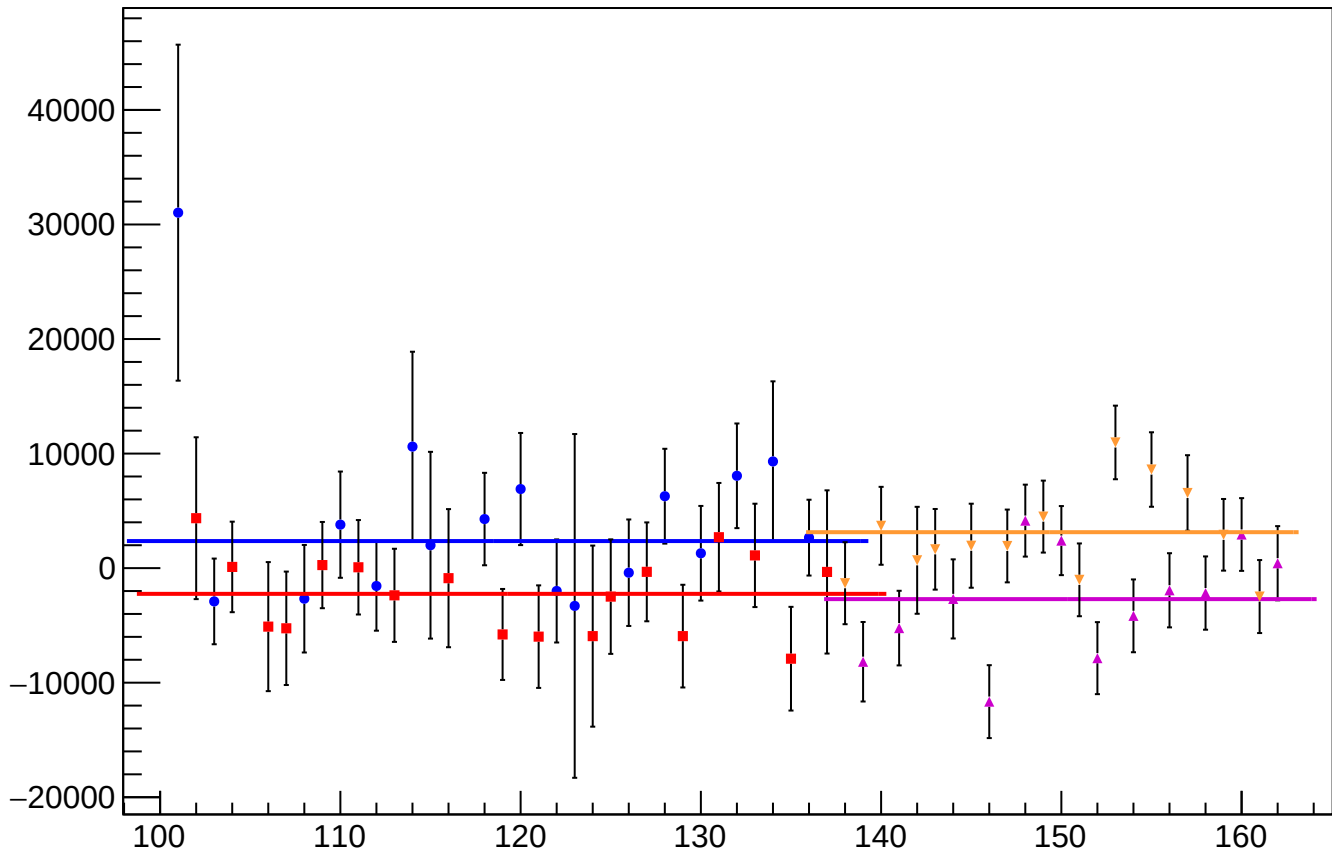
+ sign 686.549+/-0.126  $\chi^2/\text{NDF}$ : 3299311.6/29

All: 672.090+/-0.087  $\chi^2/\text{NDF}$ : 6558975.3/59

- sign 659.057+/-0.120  $\chi^2/\text{NDF}$ : 3234680.7/29



# asym\_atr1\_mean vs Slug



Right In: 2362.798+/-1159.943  $\chi^2/\text{NDF}$ : 15.1/16

Left Out: 3138.110+/-932.884  $\chi^2/\text{NDF}$ : 17.2/12

Right Out: -2245.410+/-1111.935  $\chi^2/\text{NDF}$ : 8.5/17

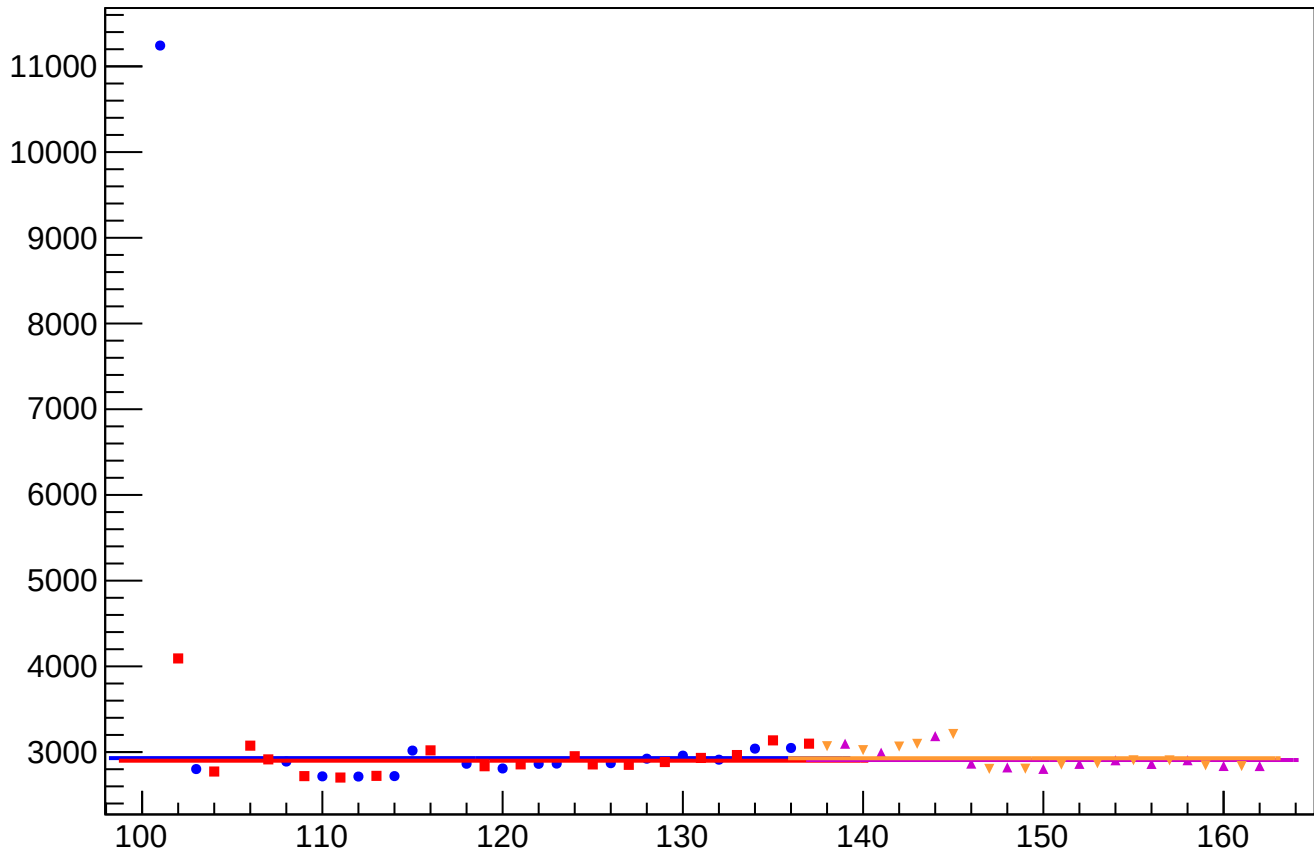
Left In: -2705.190+/-928.824  $\chi^2/\text{NDF}$ : 25.7/11

+ sign 2833.592+/-726.950  $\chi^2/\text{NDF}$ : 32.5/29

All: 106.276+/-508.971  $\chi^2/\text{NDF}$ : 94.5/59

- sign -2516.225+/-712.845  $\chi^2/\text{NDF}$ : 34.3/29

# asym\_atr1\_rms vs Slug



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2928.155+/-0.660  $\chi^2/\text{NDF}$ : 33917.3/12

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

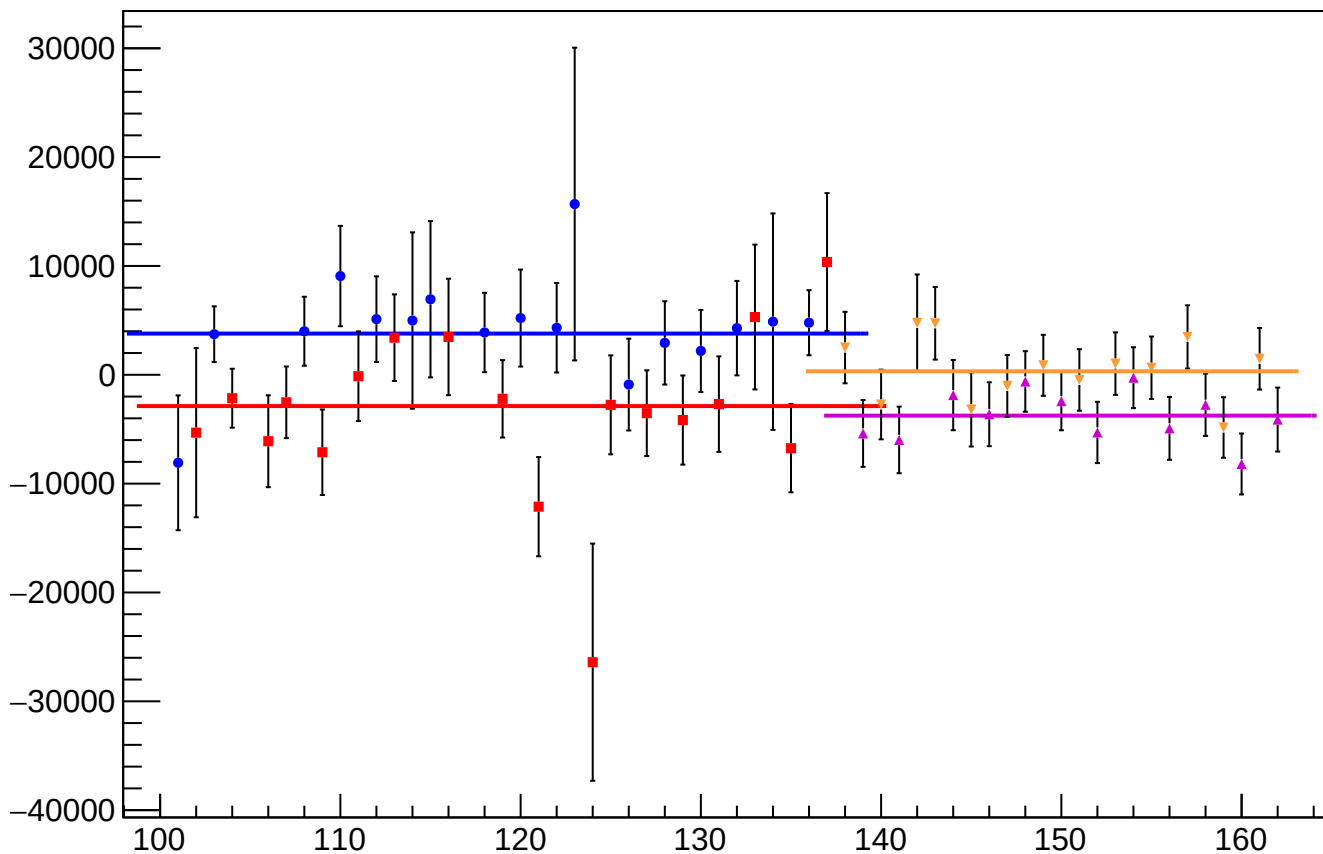
Left In: 2907.446+/-0.657  $\chi^2/\text{NDF}$ : 27337.2/11

+ sign 2928.744+/-0.514  $\chi^2/\text{NDF}$ : 696548.3/29

All: 2916.207+/-0.360  $\chi^2/\text{NDF}$ : 808656.6/59

- sign 2904.152+/-0.504  $\chi^2/\text{NDF}$ : 110941.5/29

# dit\_asym\_atr2\_mean vs Slug



Right In: 3787.840+/-1008.120  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 320.881+/-842.231  $\chi^2/\text{NDF}$ :10.4/12

Right Out: -2874.691+/-1004.077  $\chi^2/\text{NDF}$ : 22.0/17

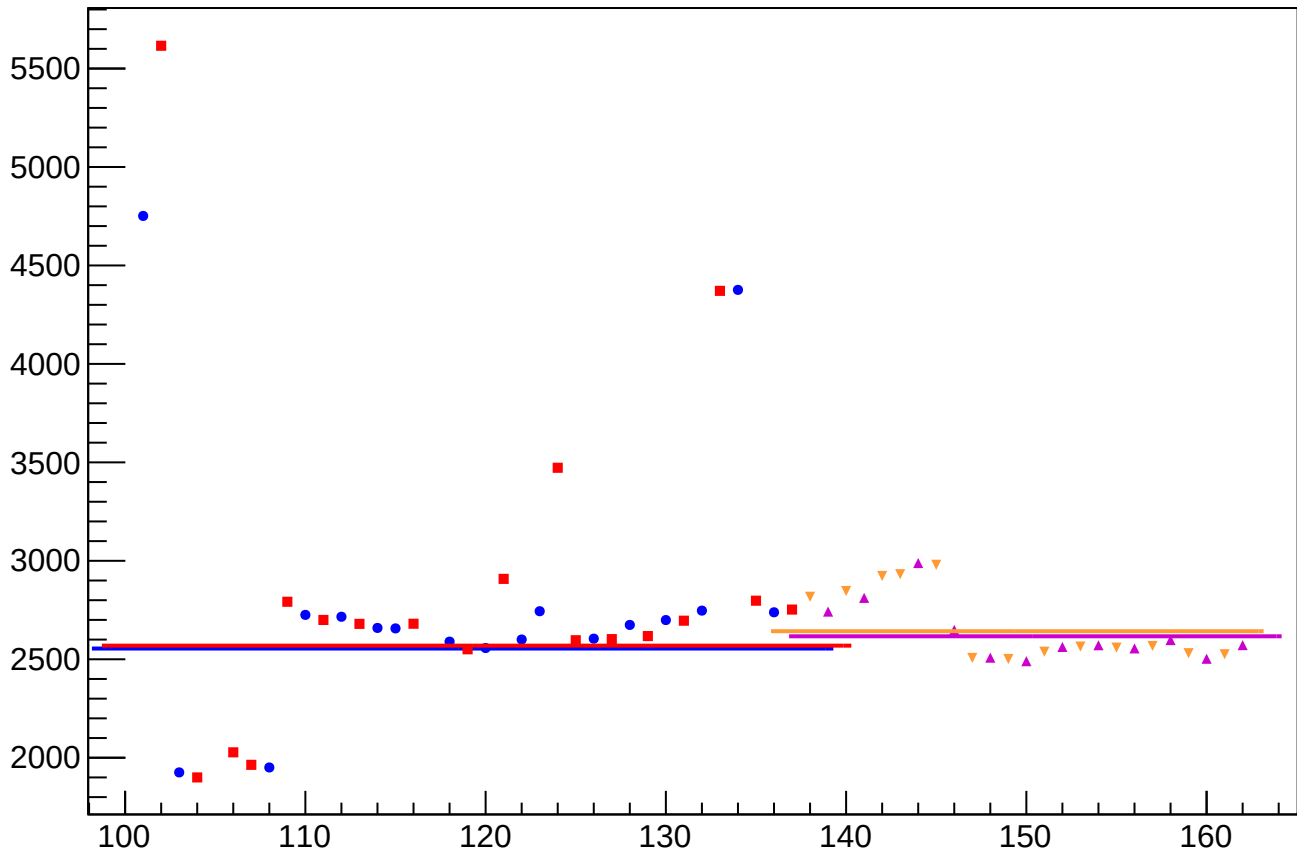
Left In: -3752.715+/-835.357  $\chi^2/\text{NDF}$ :7.4/11

+ sign 1746.017+/-646.347  $\chi^2/\text{NDF}$ : 25.1/29

All: -840.434+/-455.553  $\chi^2/\text{NDF}$ : 86.7/59

- sign -3393.567+/-642.171  $\chi^2/\text{NDF}$ : 29.8/29

# dit\_asym\_atr2\_rms vs Slug



Right In: 2554.537+/-0.713  $\chi^2/\text{NDF}$ : 536626.0/16

Left Out: 2642.591+/-0.596  $\chi^2/\text{NDF}$ : 80009.6/12

Right Out: 2569.256+/-0.710  $\chi^2/\text{NDF}$ : 723332.1/17

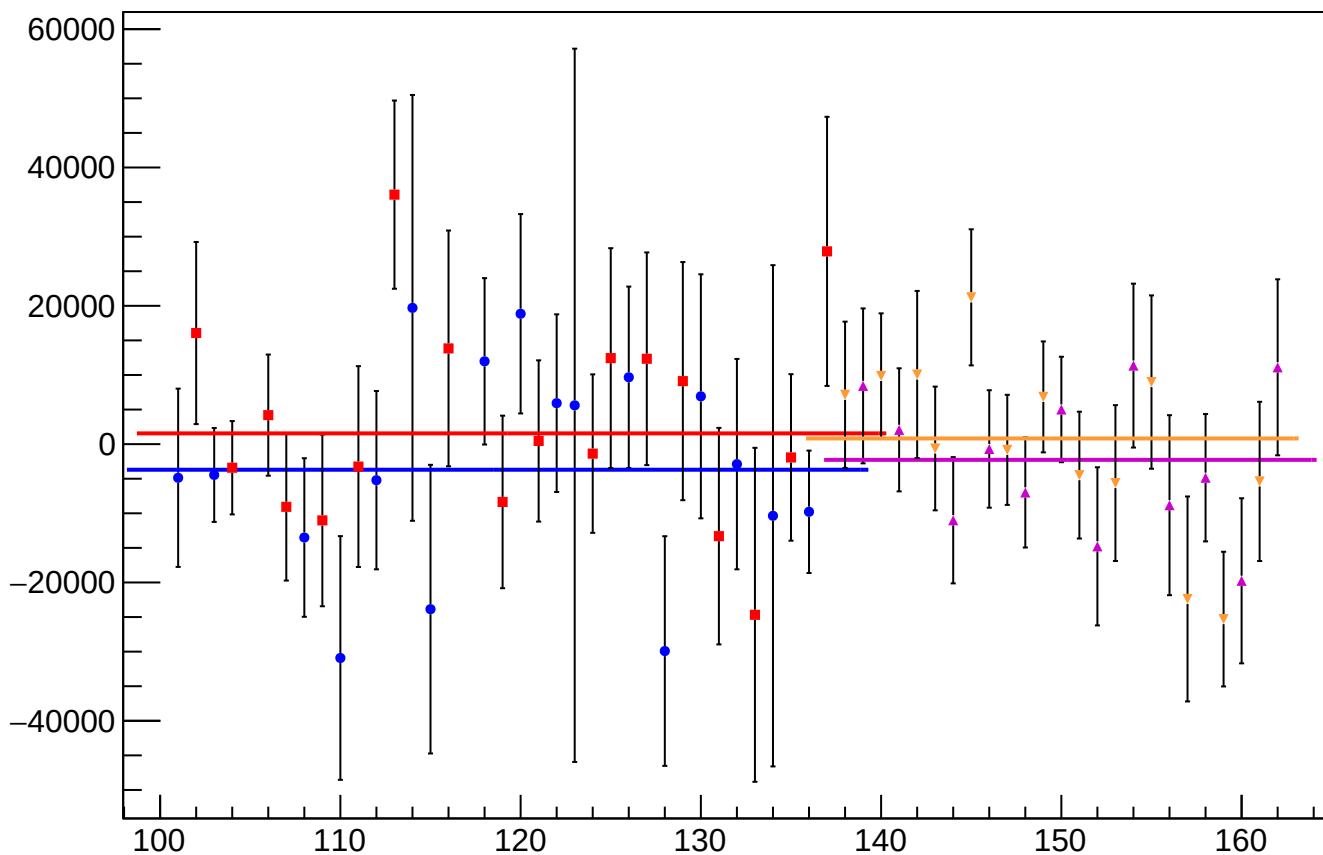
Left In: 2616.709+/-0.591  $\chi^2/\text{NDF}$ : 51837.5/11

+ sign 2606.395+/-0.457  $\chi^2/\text{NDF}$ : 625621.9/29

All: 2601.812+/-0.322  $\chi^2/\text{NDF}$ : 1403632.3/59

- sign 2597.289+/-0.454  $\chi^2/\text{NDF}$ : 777810.6/29

# asym\_atr2\_correction\_mean vs Slug



Right In:  $-3699.522 \pm 3217.843$   $\chi^2/\text{NDF}: 13.8/16$

Left Out:  $825.792 \pm 2763.103$   $\chi^2/\text{NDF}: 17.9/12$

Right Out:  $1555.707 \pm 2911.769$   $\chi^2/\text{NDF}: 16.8/17$

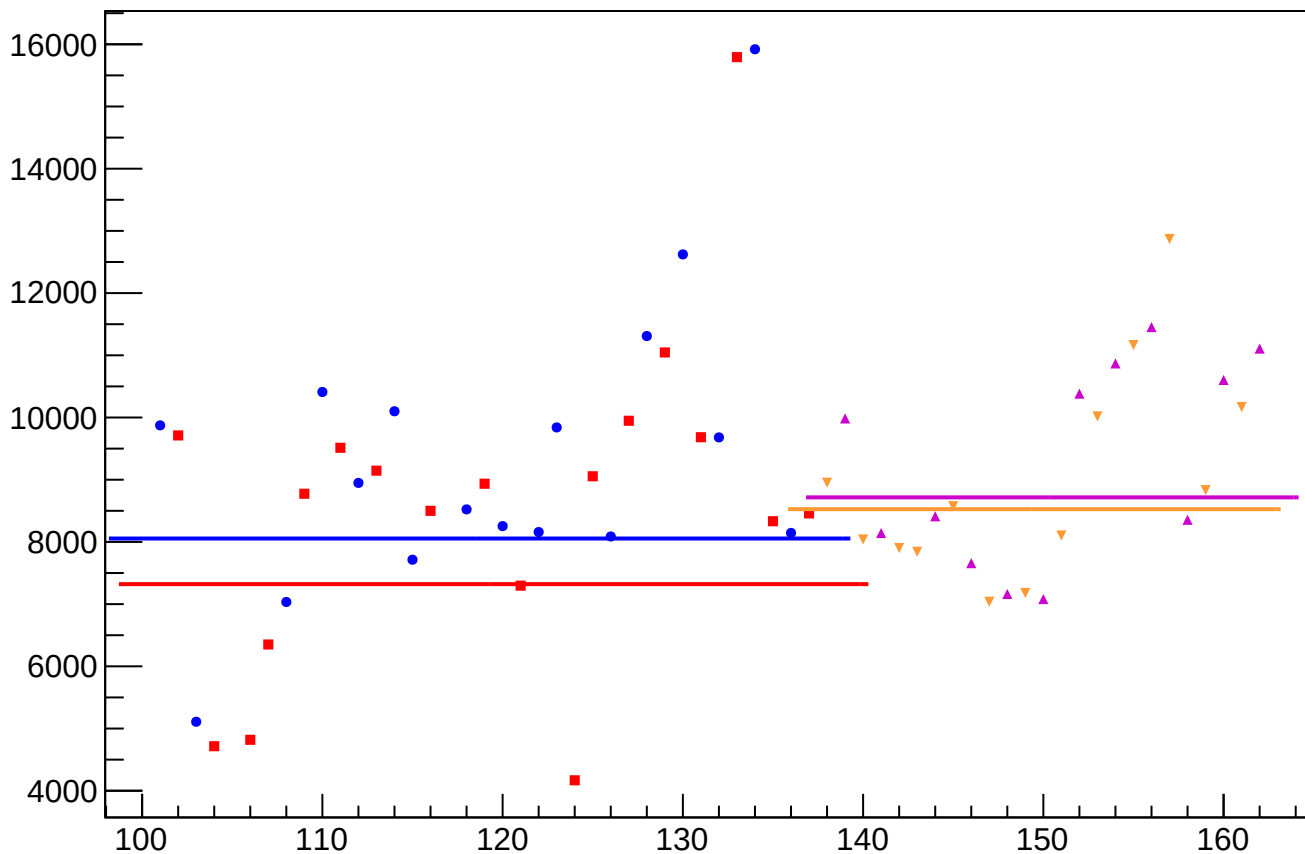
Left In:  $-2270.261 \pm 2827.004$   $\chi^2/\text{NDF}: 9.5/11$

+ sign  $-1094.776 \pm 2096.310$   $\chi^2/\text{NDF}: 32.8/29$

All:  $-743.050 \pm 1457.675$   $\chi^2/\text{NDF}: 60.0/59$

- sign  $-413.776 \pm 2028.299$   $\chi^2/\text{NDF}: 27.1/29$

# asym\_atr2\_correction\_rms vs Slug



Right In: 8054.772+/-2.275  $\chi^2/\text{NDF}$ : 820763.4/16

Left Out: 8526.513+/-1.954  $\chi^2/\text{NDF}$ : 495127.8/12

Right Out: 7321.428+/-2.059  $\chi^2/\text{NDF}$ : 1335956.4/17

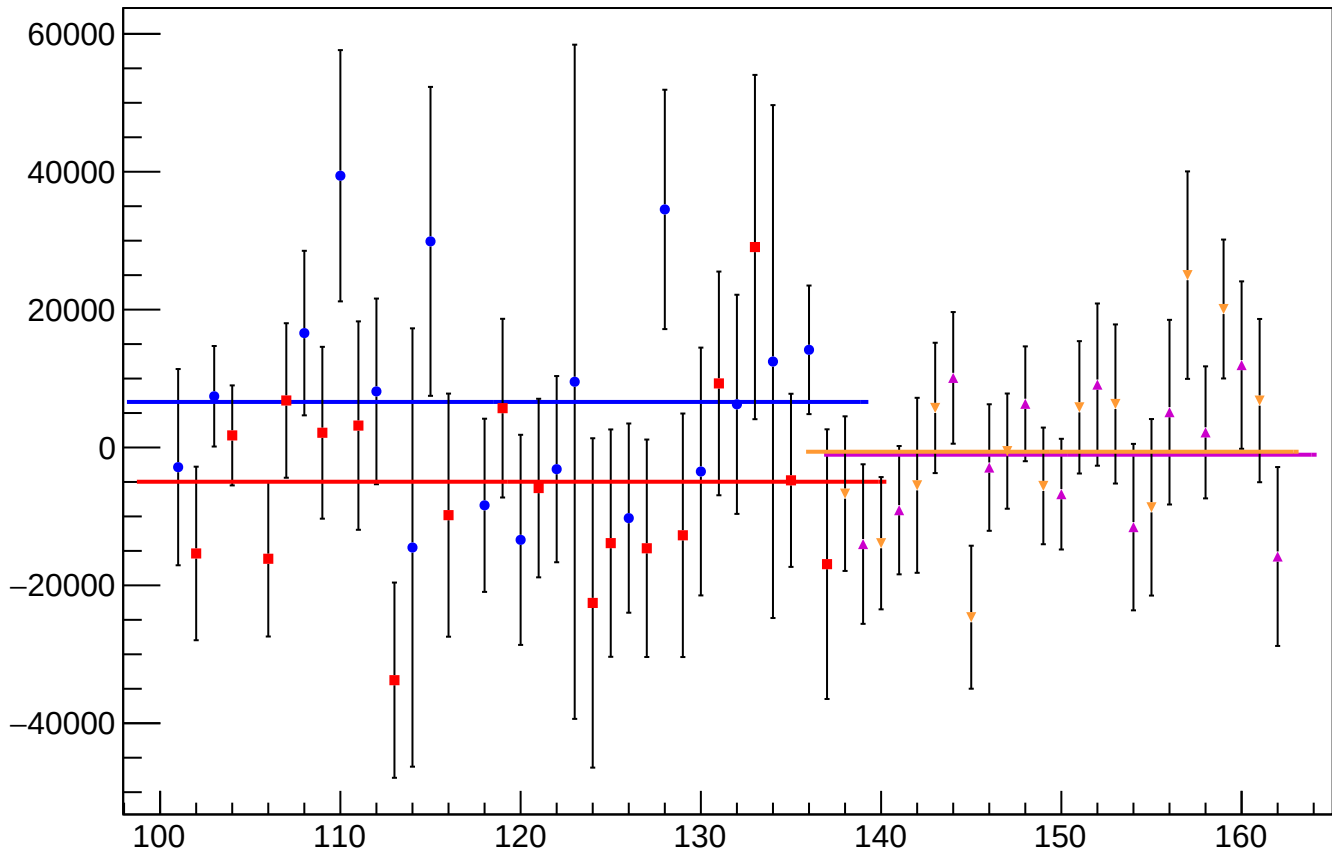
Left In: 8716.076+/-1.999  $\chi^2/\text{NDF}$ : 556170.8/11

+ sign 8326.304+/-1.482  $\chi^2/\text{NDF}$ : 1340632.5/29

All: 8178.095+/-1.031  $\chi^2/\text{NDF}$ : 3488302.7/59

- sign 8039.347+/-1.434  $\chi^2/\text{NDF}$ : 2128314.5/29

# asym\_atr2\_mean vs Slug



Right In: 6607.332 $\pm$ 3395.867  $\chi^2$ /NDF: 14.7/16

Left Out: -615.139 $\pm$ 2890.931  $\chi^2$ /NDF: 17.2/12

Right Out: -4967.799 $\pm$ 3176.866  $\chi^2$ /NDF: 13.5/17

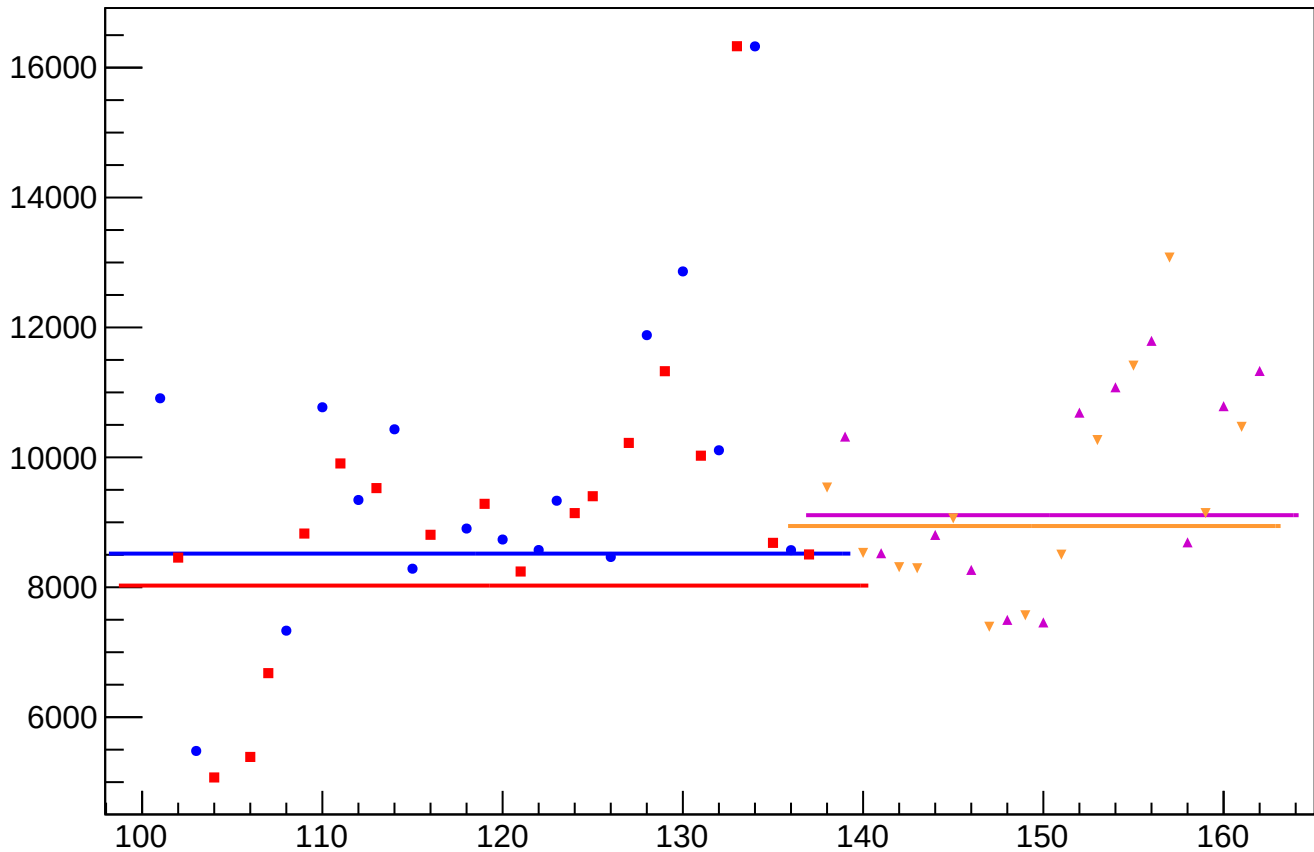
Left In: -1049.043 $\pm$ 2948.094  $\chi^2$ /NDF: 9.0/11

+ sign 2419.728 $\pm$ 2201.292  $\chi^2$ /NDF: 34.5/29

All: -270.080 $\pm$ 1542.096  $\chi^2$ /NDF: 60.8/59

- sign -2862.256 $\pm$ 2160.972  $\chi^2$ /NDF: 23.3/29

# asym\_atr2\_rms vs Slug



Right In:  $8518.273 \pm 2.401$   $\chi^2/\text{NDF}$ : 771995.0/16

Left Out:  $8942.852 \pm 2.044$   $\chi^2/\text{NDF}$ : 435433.6/12

Right Out:  $8026.045 \pm 2.246$   $\chi^2/\text{NDF}$ : 942657.8/17

Left In:  $9109.808 \pm 2.085$   $\chi^2/\text{NDF}$ : 478206.8/11

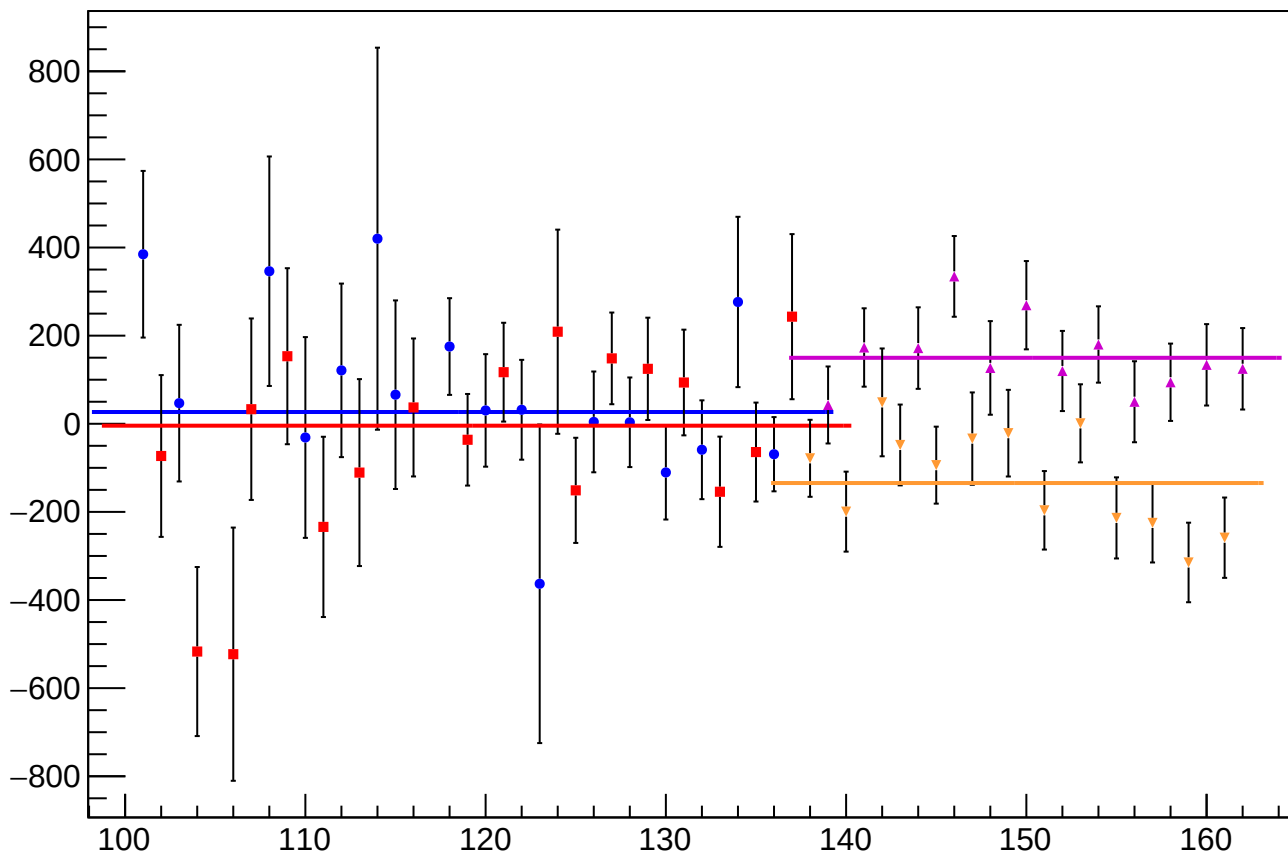
+ sign  $8764.445 \pm 1.557$   $\chi^2/\text{NDF}$ : 1225555.6/29

All:  $8684.943 \pm 1.090$   $\chi^2/\text{NDF}$ : 2776607.2/59

- sign  $8608.330 \pm 1.528$   $\chi^2/\text{NDF}$ : 1545929.0/29



# dit\_asym\_sam1\_mean vs Slug



Right In:  $26.713 \pm 33.626$   $\chi^2/\text{NDF}$ : 14.5/16

Left Out:  $-134.472 \pm 25.803$   $\chi^2/\text{NDF}$ : 16.9/12

Right Out:  $-4.338 \pm 33.842$   $\chi^2/\text{NDF}$ : 23.9/17

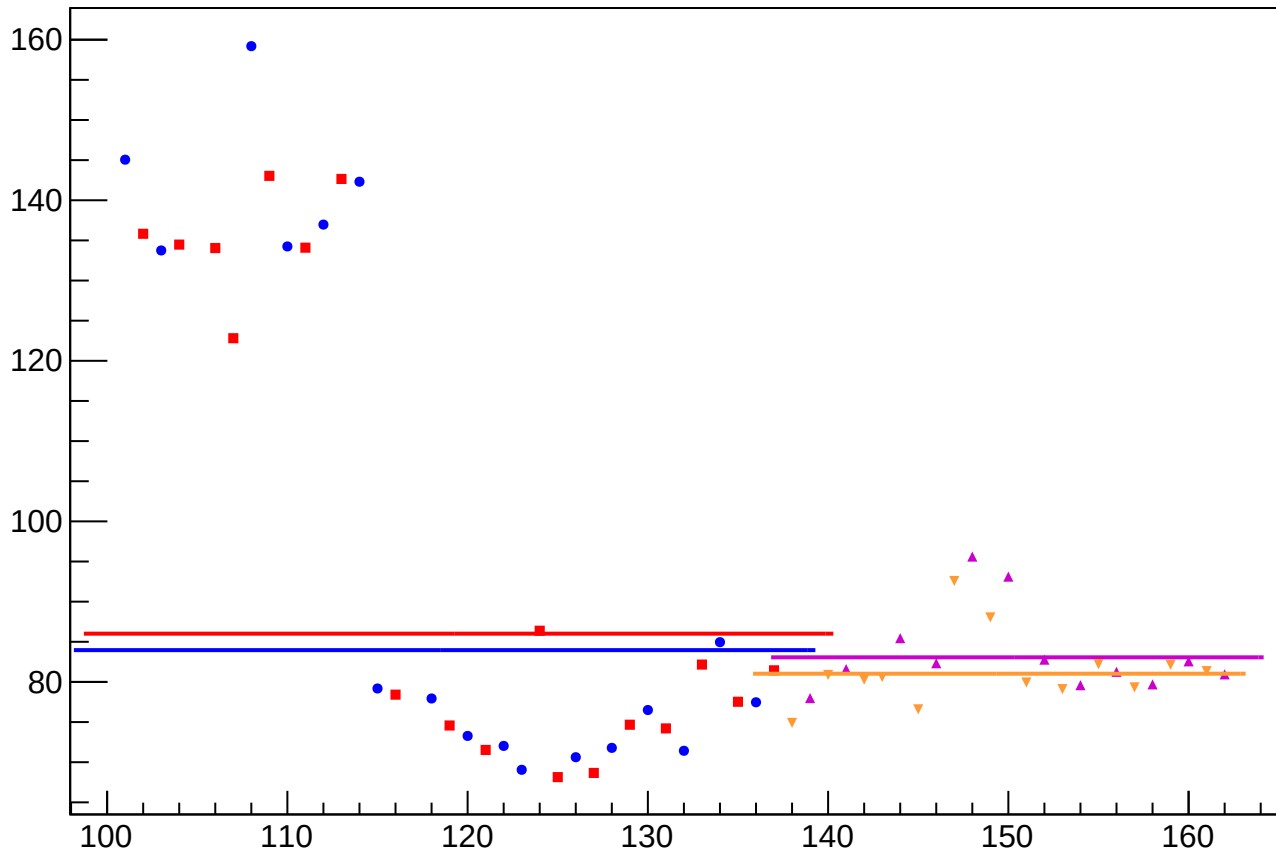
Left In:  $149.731 \pm 26.555$   $\chi^2/\text{NDF}$ : 9.1/11

+ sign  $-74.735 \pm 20.471$   $\chi^2/\text{NDF}$ : 45.9/29

All:  $6.456 \pm 14.622$   $\chi^2/\text{NDF}$ : 123.9/59

- sign  $91.017 \pm 20.891$   $\chi^2/\text{NDF}$ : 45.8/29

# dit\_asym\_sam1\_rms vs Slug



Right In: 83.961 $\pm$ 0.024  $\chi^2$ /NDF: 960253.6/16

Left Out: 81.022 $\pm$ 0.018  $\chi^2$ /NDF: 52210.5/12

Right Out: 86.012 $\pm$ 0.024  $\chi^2$ /NDF: 1026404.0/17

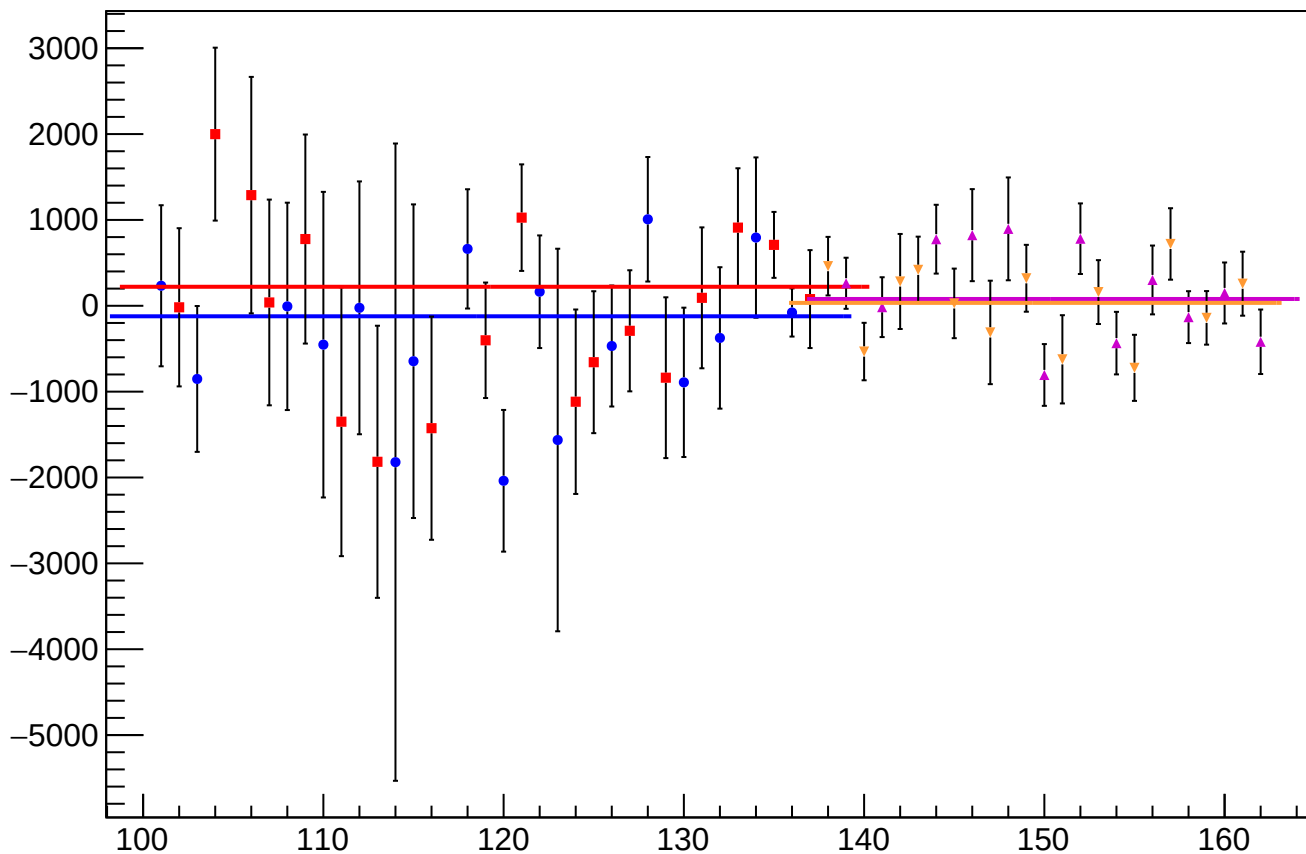
Left In: 83.063 $\pm$ 0.019  $\chi^2$ /NDF: 64852.9/11

+ sign 82.111 $\pm$ 0.014  $\chi^2$ /NDF: 1022075.2/29

All: 83.128 $\pm$ 0.010  $\chi^2$ /NDF: 2132802.6/59

- sign 84.187 $\pm$ 0.015  $\chi^2$ /NDF: 1100653.8/29

# asym\_sam1\_correction\_mean vs Slug



Right In:  $-122.410 \pm 179.587$   $\chi^2/\text{NDF}$ : 13.0/16

Left Out:  $33.842 \pm 109.149$   $\chi^2/\text{NDF}$ : 15.5/12

Right Out:  $221.525 \pm 185.098$   $\chi^2/\text{NDF}$ : 18.0/17

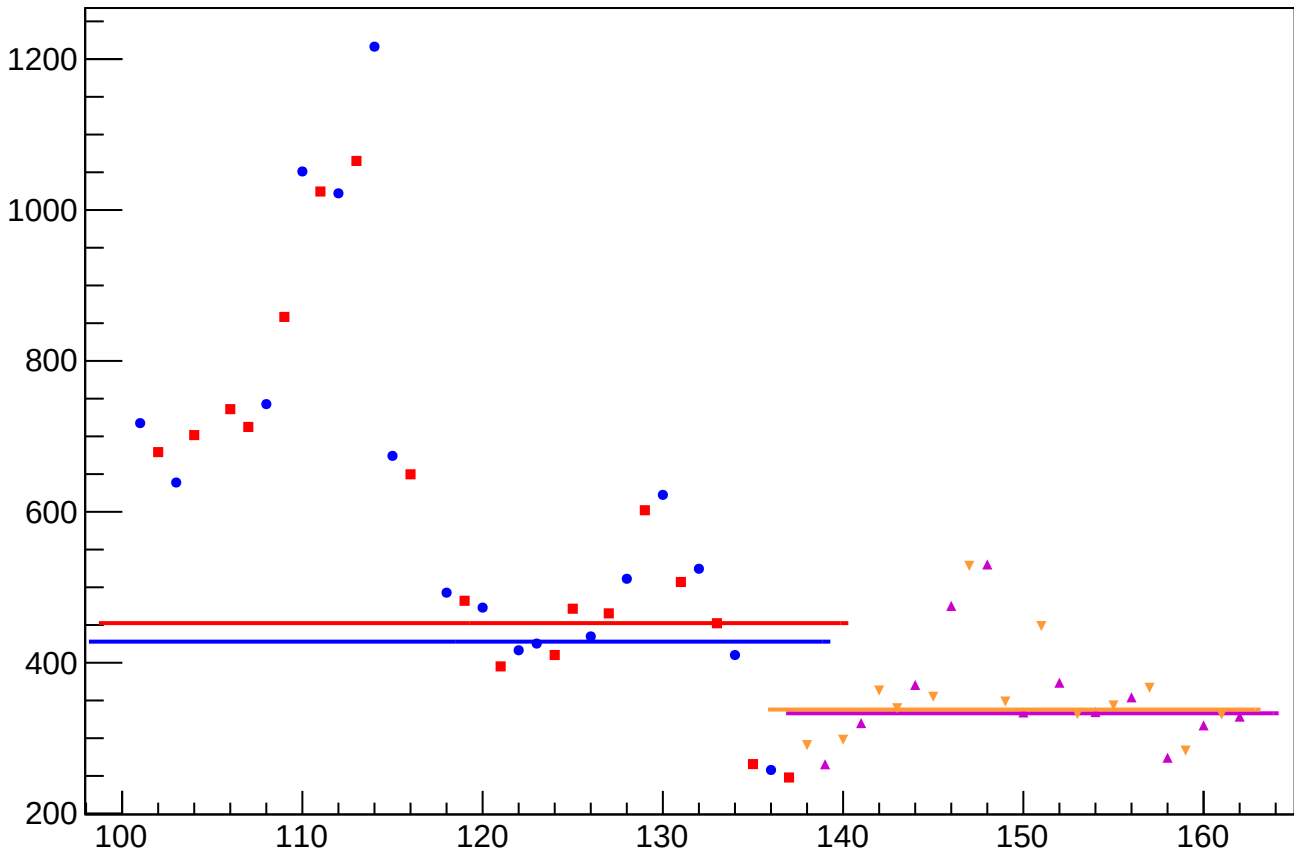
Left In:  $79.300 \pm 108.209$   $\chi^2/\text{NDF}$ : 20.8/11

+ sign  $-8.307 \pm 93.273$   $\chi^2/\text{NDF}$ : 29.1/29

All:  $53.514 \pm 66.005$   $\chi^2/\text{NDF}$ : 69.2/59

- sign  $115.527 \pm 93.417$   $\chi^2/\text{NDF}$ : 39.3/29

# asym\_sam1\_correction\_rms vs Slug



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 337.984+/-0.077  $\chi^2/\text{NDF}$ :440591.9/12

Right Out: 452.508+/-0.131  $\chi^2/\text{NDF}$ : 2073032.9/17

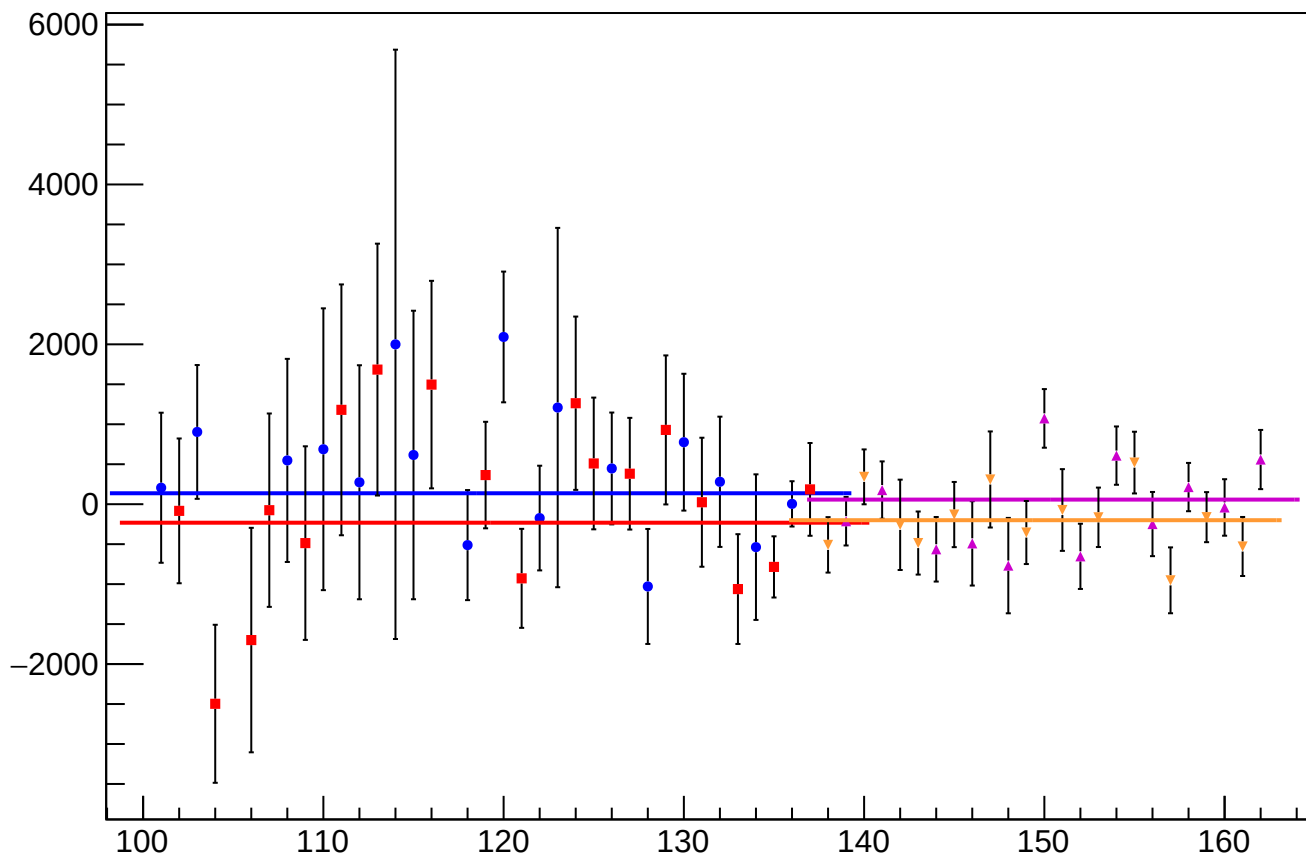
Left In: 333.011+/-0.077  $\chi^2/\text{NDF}$ :586729.4/11

+ sign 362.262+/-0.066  $\chi^2/\text{NDF}$ : 2869656.9/29

All: 362.854+/-0.047  $\chi^2/\text{NDF}$ : 6150820.5/59

- sign 363.448+/-0.066  $\chi^2/\text{NDF}$ : 3281002.1/29

# asym\_sam1\_mean vs Slug



Right In:  $136.810 \pm 179.609$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $-200.220 \pm 109.934$   $\chi^2/\text{NDF}$ : 12.4/12

Right Out:  $-231.586 \pm 184.578$   $\chi^2/\text{NDF}$ : 21.8/17

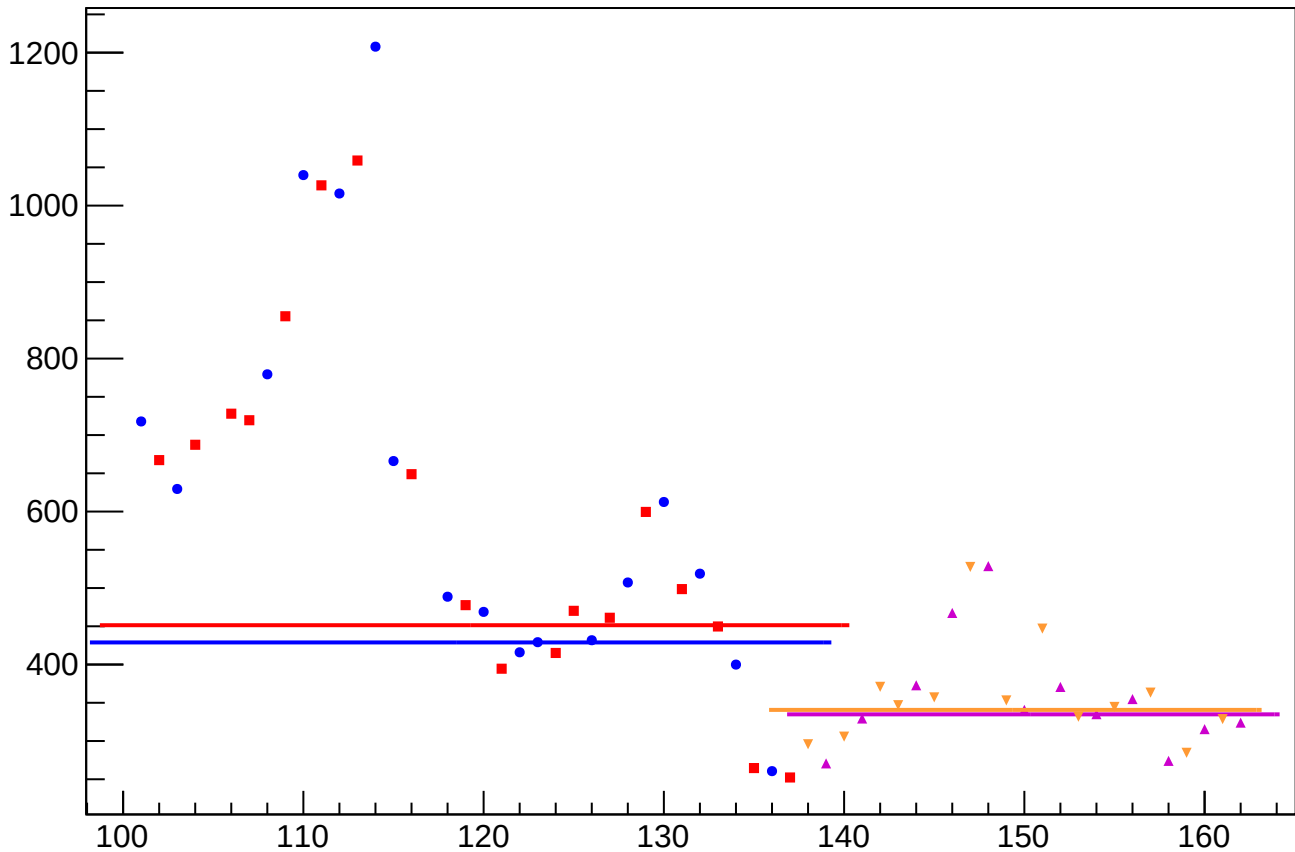
Left In:  $57.561 \pm 108.740$   $\chi^2/\text{NDF}$ : 22.0/11

+ sign  $-108.367 \pm 93.765$   $\chi^2/\text{NDF}$ : 27.6/29

All:  $-62.616 \pm 66.275$   $\chi^2/\text{NDF}$ : 73.6/59

- sign  $-16.937 \pm 93.690$   $\chi^2/\text{NDF}$ : 45.6/29

# asym\_sam1\_rms vs Slug



Right In: 428.889+/-0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 340.696+/-0.078  $\chi^2/\text{NDF}$ : 419158.0/12

Right Out: 451.411+/-0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

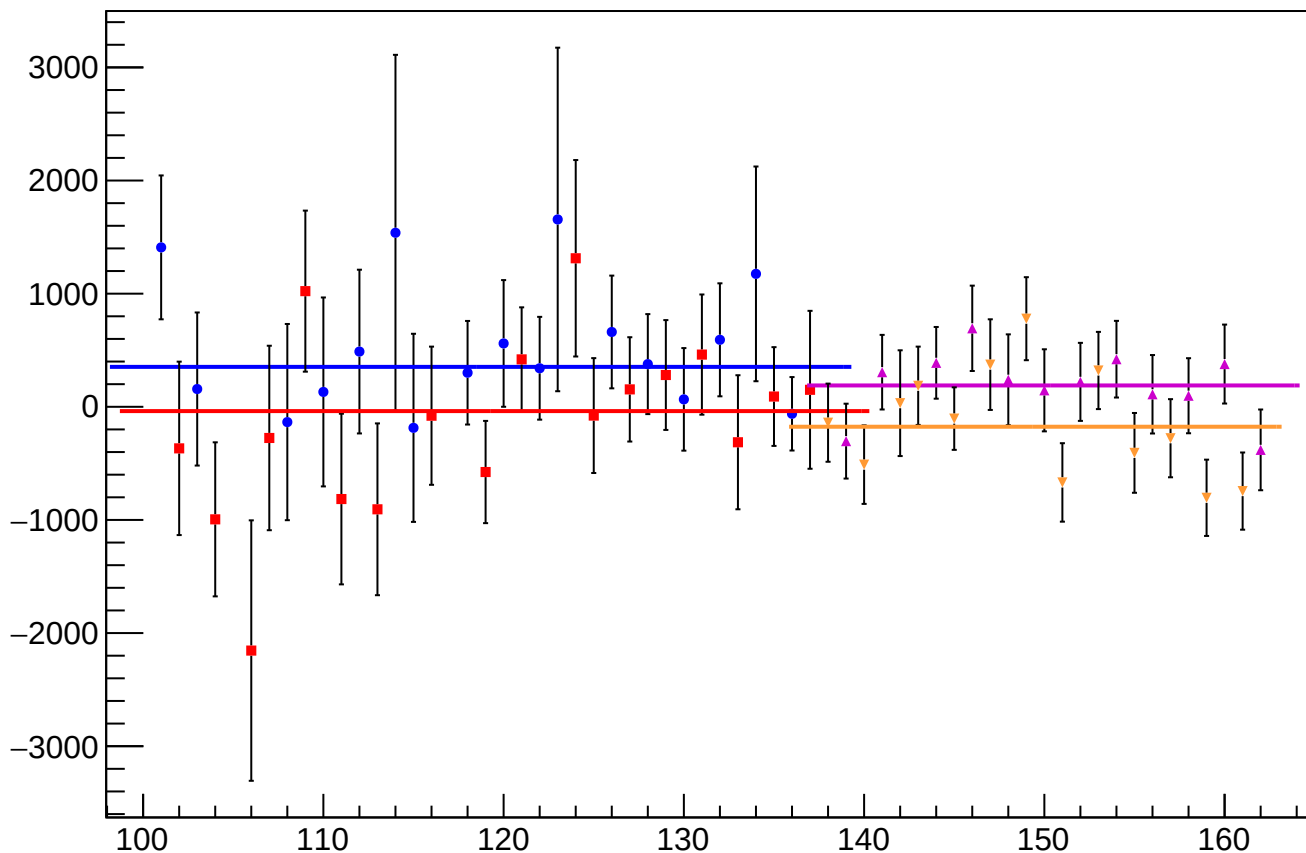
Left In: 334.871+/-0.077  $\chi^2/\text{NDF}$ : 554288.3/11

+ sign 364.732+/-0.066  $\chi^2/\text{NDF}$ : 2780549.2/29

All: 364.815+/-0.047  $\chi^2/\text{NDF}$ : 5957456.7/59

- sign 364.897+/-0.066  $\chi^2/\text{NDF}$ : 3176904.5/29

# dit\_asym\_sam2\_mean vs Slug



Right In: 352.927 $\pm$ 137.298  $\chi^2$ /NDF: 8.5/16

Left Out: -176.156 $\pm$ 96.636  $\chi^2$ /NDF:21.9/12

Right Out: -37.982 $\pm$ 139.023  $\chi^2$ /NDF: 16.9/17

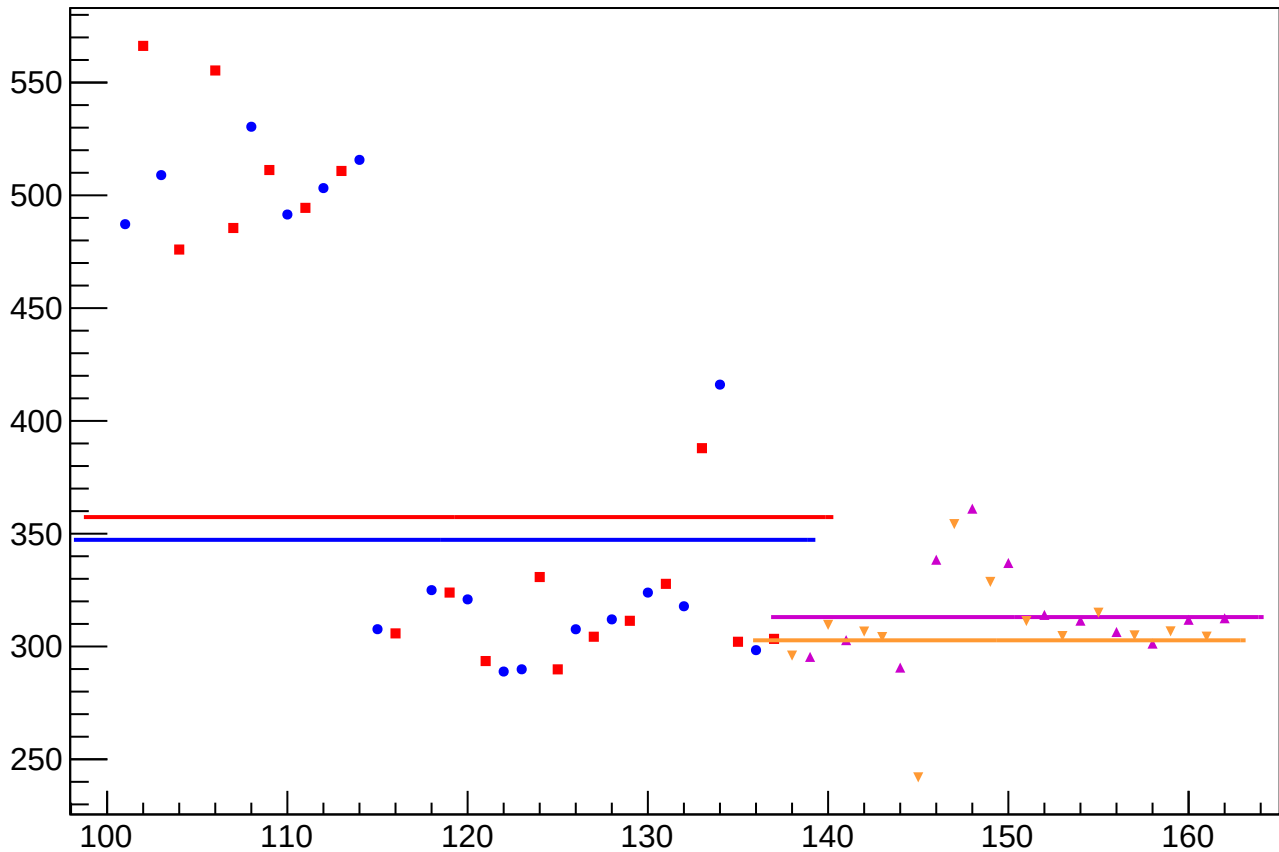
Left In: 188.725 $\pm$ 100.147  $\chi^2$ /NDF:8.0/11

+ sign -0.881 $\pm$ 79.025  $\chi^2$ /NDF: 40.3/29

All: 53.633 $\pm$ 56.652  $\chi^2$ /NDF: 68.0/59

- sign 111.273 $\pm$ 81.259  $\chi^2$ /NDF: 26.7/29

# dit\_asym\_sam2\_rms vs Slug



Right In: 347.280+/-0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 302.735+/-0.068  $\chi^2/\text{NDF}$ : 145551.3/12

Right Out: 357.365+/-0.098  $\chi^2/\text{NDF}$ : 759938.5/17

Left In: 313.038+/-0.071  $\chi^2/\text{NDF}$ : 67423.3/11

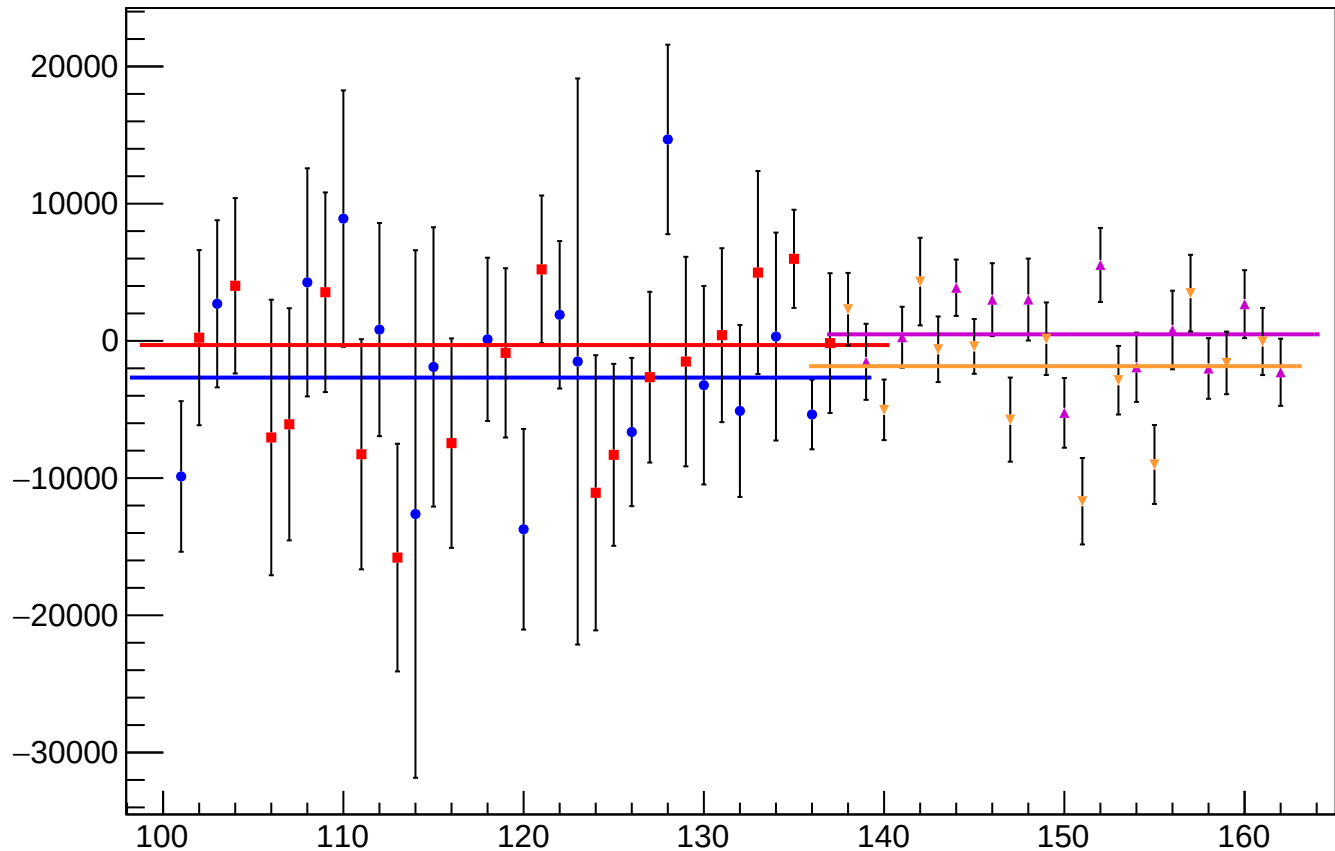
+ sign 317.492+/-0.056  $\chi^2/\text{NDF}$ : 905236.2/29

All: 322.688+/-0.040  $\chi^2/\text{NDF}$ : 1884245.5/59

- sign 328.182+/-0.057  $\chi^2/\text{NDF}$ : 961220.2/29



# asym\_sam2\_correction\_mean vs Slug



Right In: -2674.025+/-1456.188  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -1843.471+/-708.838  $\chi^2/\text{NDF}$ : 31.6/12

Right Out: -304.817+/-1517.834  $\chi^2/\text{NDF}$ : 14.4/17

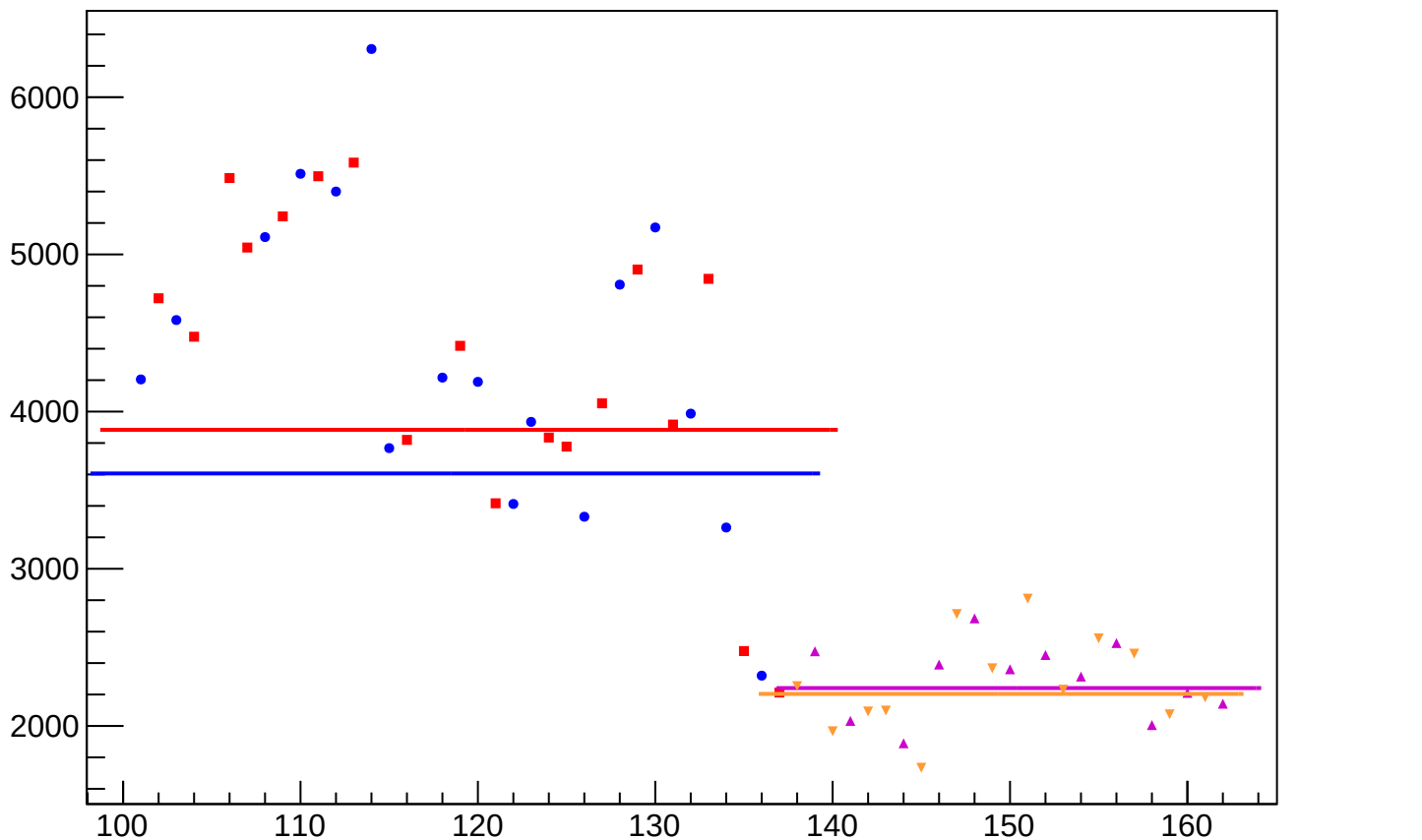
Left In: 478.570+/-719.740  $\chi^2/\text{NDF}$ : 17.7/11

+ sign -2002.572+/-637.339  $\chi^2/\text{NDF}$ : 48.6/29

All: -857.484+/-455.190  $\chi^2/\text{NDF}$ : 87.5/59

- sign 334.758+/-650.329  $\chi^2/\text{NDF}$ : 32.3/29

# asym\_sam2\_correction\_rms vs Slug



Right In: 3606.359 $\pm$ 1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2203.949 $\pm$ 0.501  $\chi^2/\text{NDF}$ :331736.3/12

Right Out: 3884.203 $\pm$ 1.073  $\chi^2/\text{NDF}$ : 994574.5/17

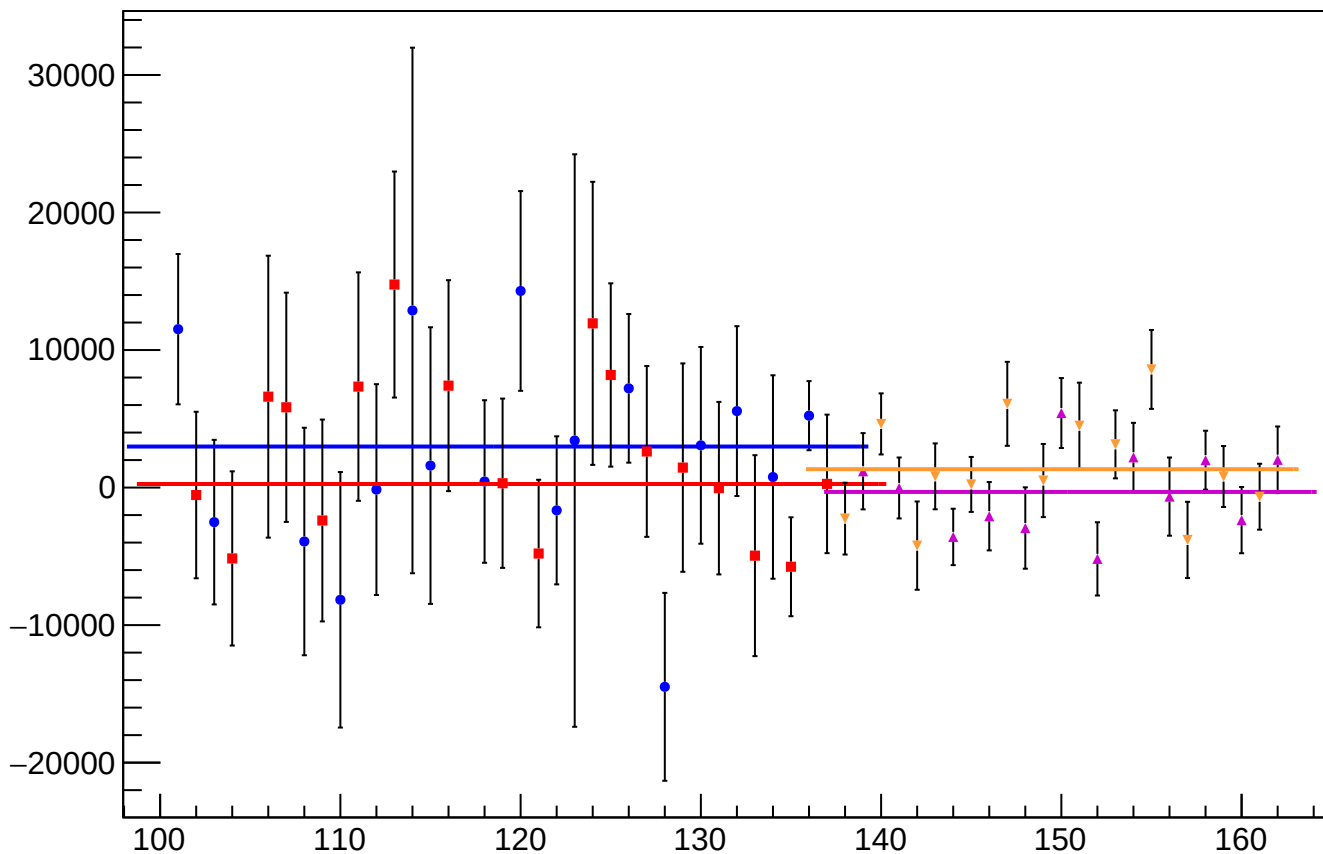
Left In: 2240.915 $\pm$ 0.509  $\chi^2/\text{NDF}$ :205472.7/11

+ sign 2472.595 $\pm$ 0.451  $\chi^2/\text{NDF}$ : 2923914.0/29

All: 2506.884 $\pm$ 0.322  $\chi^2/\text{NDF}$ : 6049700.0/59

- sign 2542.584 $\pm$ 0.460  $\chi^2/\text{NDF}$ : 3113970.0/29

# asym\_sam2\_mean vs Slug



Right In: 2983.609+/-1443.630  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1336.213+/-704.638  $\chi^2/\text{NDF}$ :22.1/12

Right Out: 259.721+/-1510.344  $\chi^2/\text{NDF}$ : 13.5/17

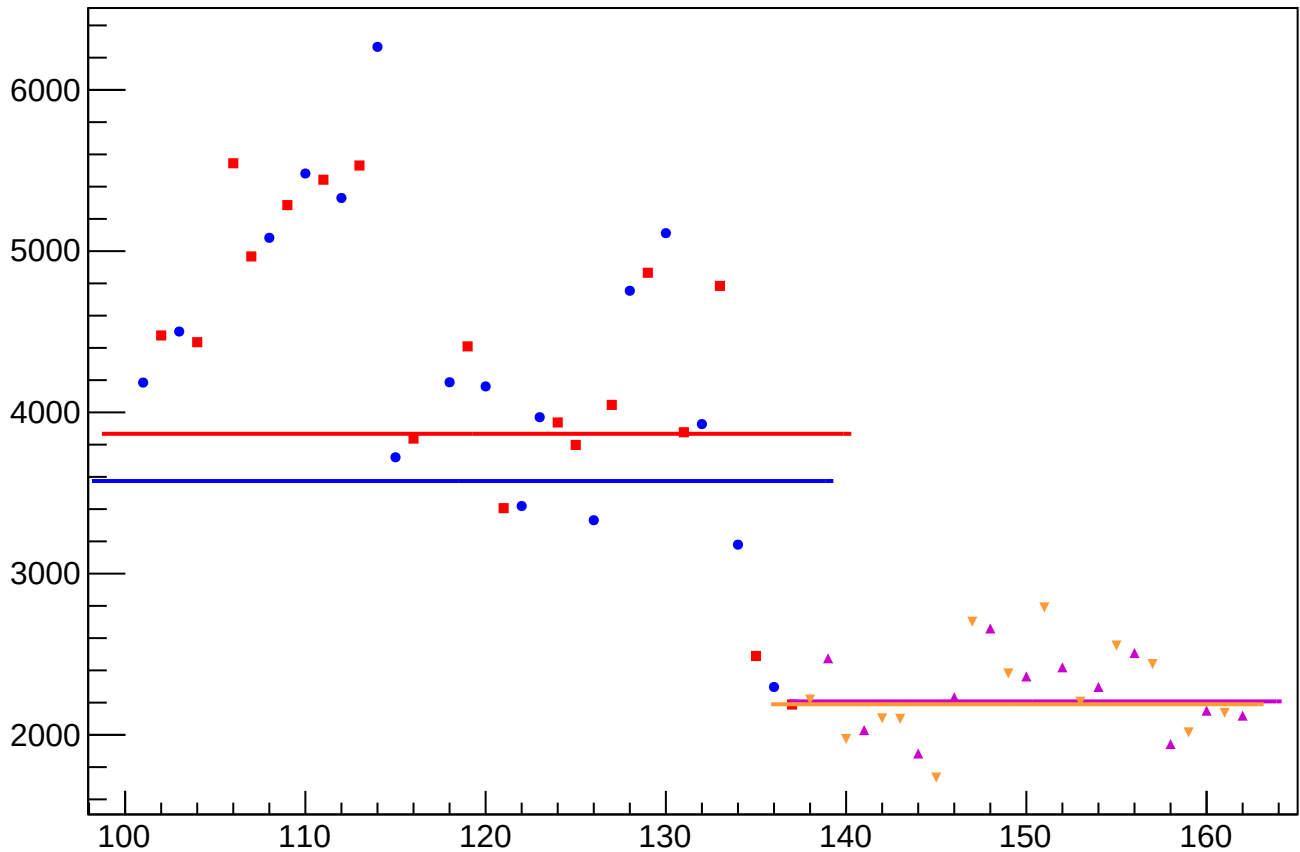
Left In: -317.772+/-709.412  $\chi^2/\text{NDF}$ :16.4/11

+ sign 1653.179+/-633.232  $\chi^2/\text{NDF}$ : 40.6/29

All: 732.882+/-450.868  $\chi^2/\text{NDF}$ : 74.9/59

- sign -213.394+/-642.108  $\chi^2/\text{NDF}$ : 30.0/29

# asym\_sam2\_rms vs Slug



Right In: 3574.362+/-1.021  $\chi^2/\text{NDF}$ : 1091350.4/16

Left Out: 2189.925+/-0.498  $\chi^2/\text{NDF}$ : 328851.1/12

Right Out: 3867.232+/-1.068  $\chi^2/\text{NDF}$ : 968137.9/17

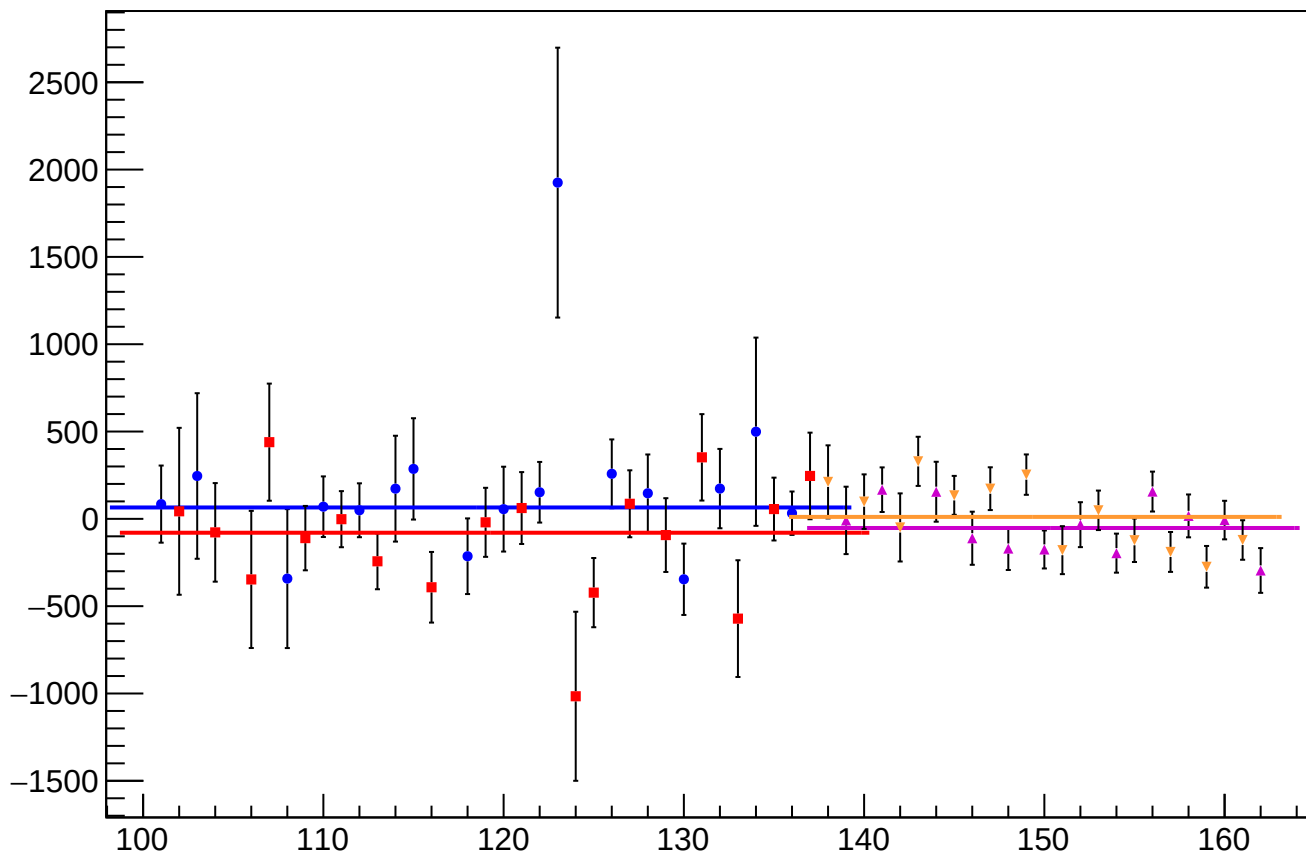
Left In: 2207.639+/-0.502  $\chi^2/\text{NDF}$ : 207349.8/11

+ sign 2456.296+/-0.448  $\chi^2/\text{NDF}$ : 2905655.6/29

All: 2481.591+/-0.319  $\chi^2/\text{NDF}$ : 6065956.0/59

- sign 2507.600+/-0.454  $\chi^2/\text{NDF}$ : 3153827.6/29

# dit\_asym\_sam3\_mean vs Slug



Right In: 65.225+/-52.700  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 11.172+/-35.734  $\chi^2/\text{NDF}$ : 27.2/12

Right Out: -79.473+/-52.344  $\chi^2/\text{NDF}$ : 22.2/17

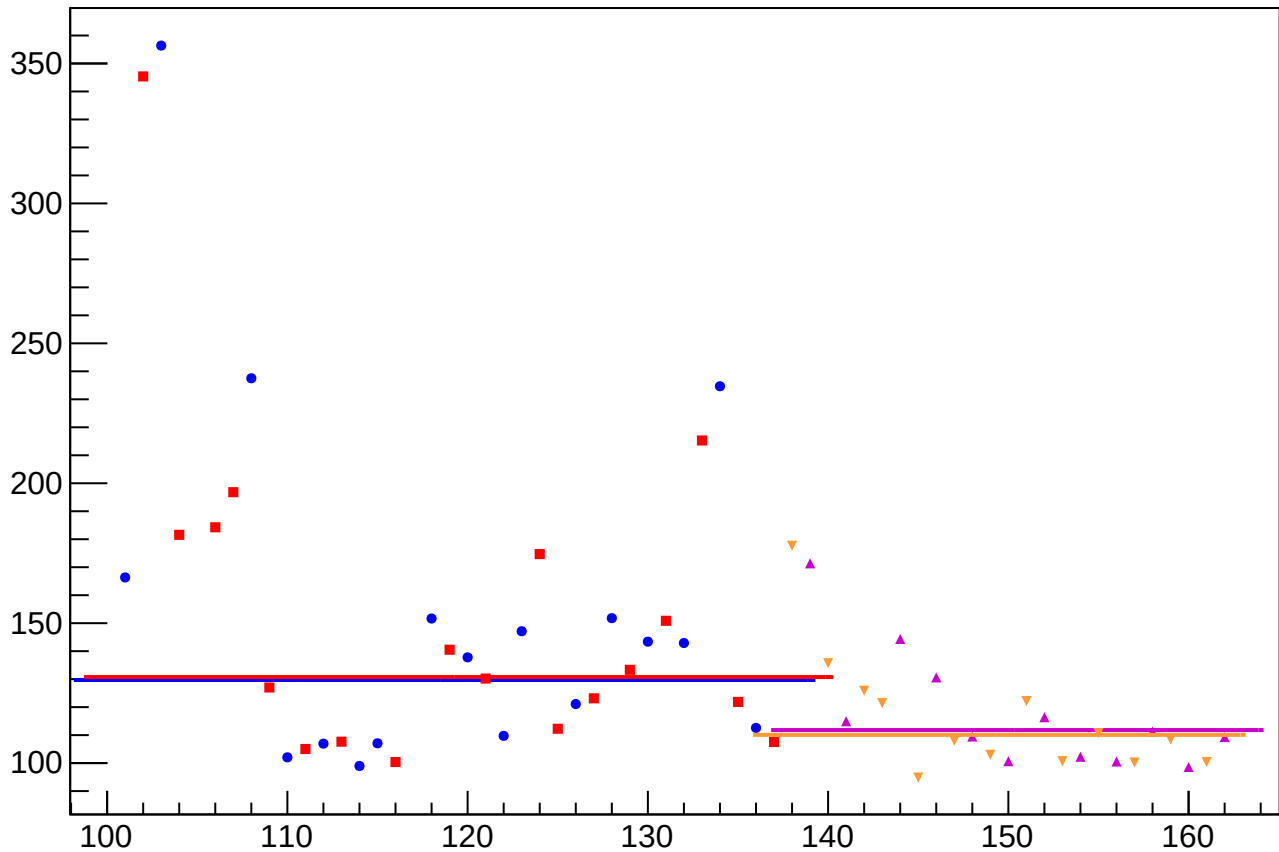
Left In: -52.316+/-36.693  $\chi^2/\text{NDF}$ : 15.9/11

+ sign 28.196+/-29.576  $\chi^2/\text{NDF}$ : 43.6/29

All: -15.829+/-21.078  $\chi^2/\text{NDF}$ : 86.3/59

- sign -61.264+/-30.046  $\chi^2/\text{NDF}$ : 38.3/29

# dit\_asym\_sam3\_rms vs Slug



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 110.088 $\pm$ 0.025  $\chi^2$ /NDF: 393517.9/12

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

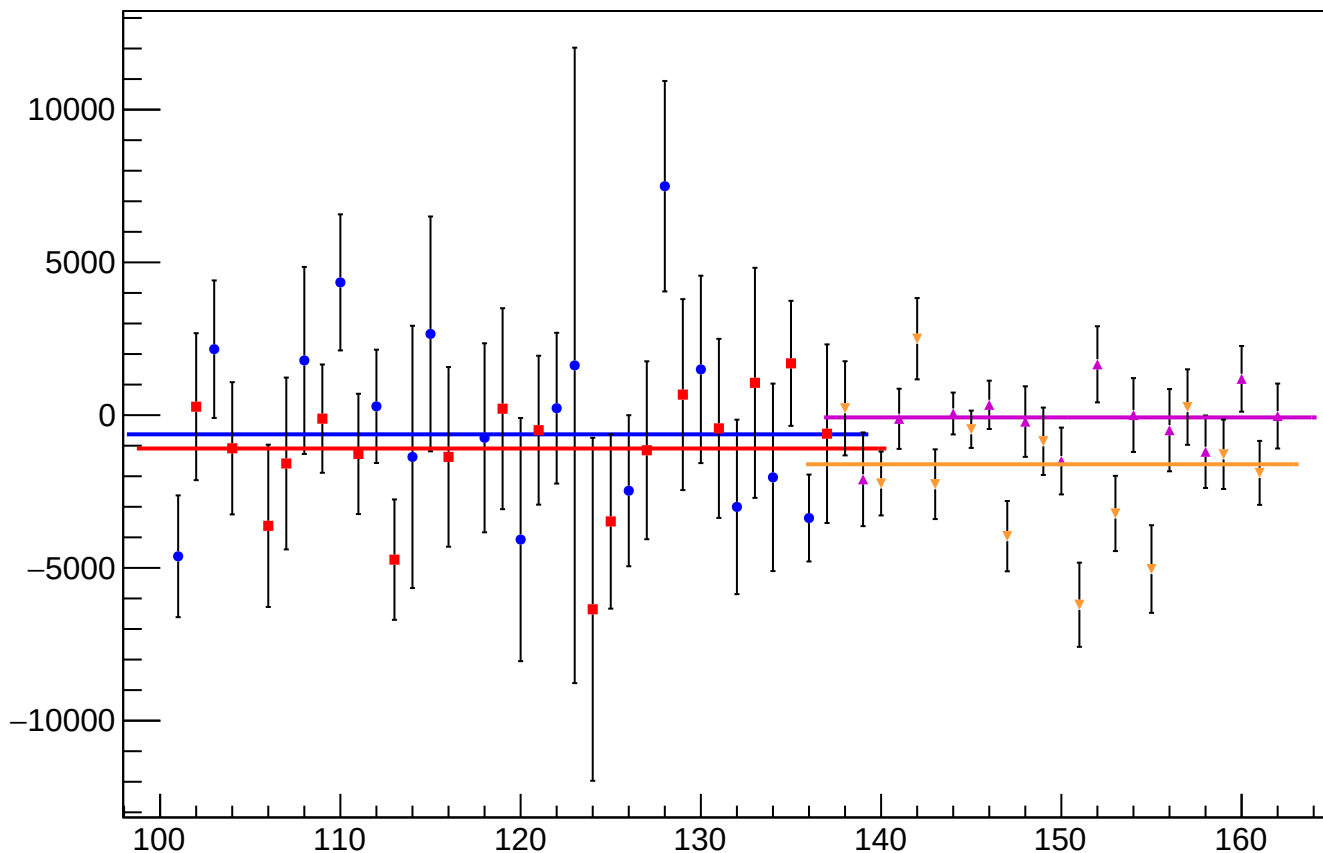
Left In: 111.811 $\pm$ 0.026  $\chi^2$ /NDF: 381960.0/11

+ sign 116.264 $\pm$ 0.021  $\chi^2$ /NDF: 1572881.2/29

All: 117.144 $\pm$ 0.015  $\chi^2$ /NDF: 3061557.7/59

- sign 118.052 $\pm$ 0.021  $\chi^2$ /NDF: 1485080.2/29

# asym\_sam3\_correction\_mean vs Slug



Right In:  $-628.175 \pm 621.486$   $\chi^2/\text{NDF}$ : 24.3/16

Left Out:  $-1608.015 \pm 302.357$   $\chi^2/\text{NDF}$ : 40.8/12

Right Out:  $-1091.945 \pm 599.483$   $\chi^2/\text{NDF}$ : 9.4/17

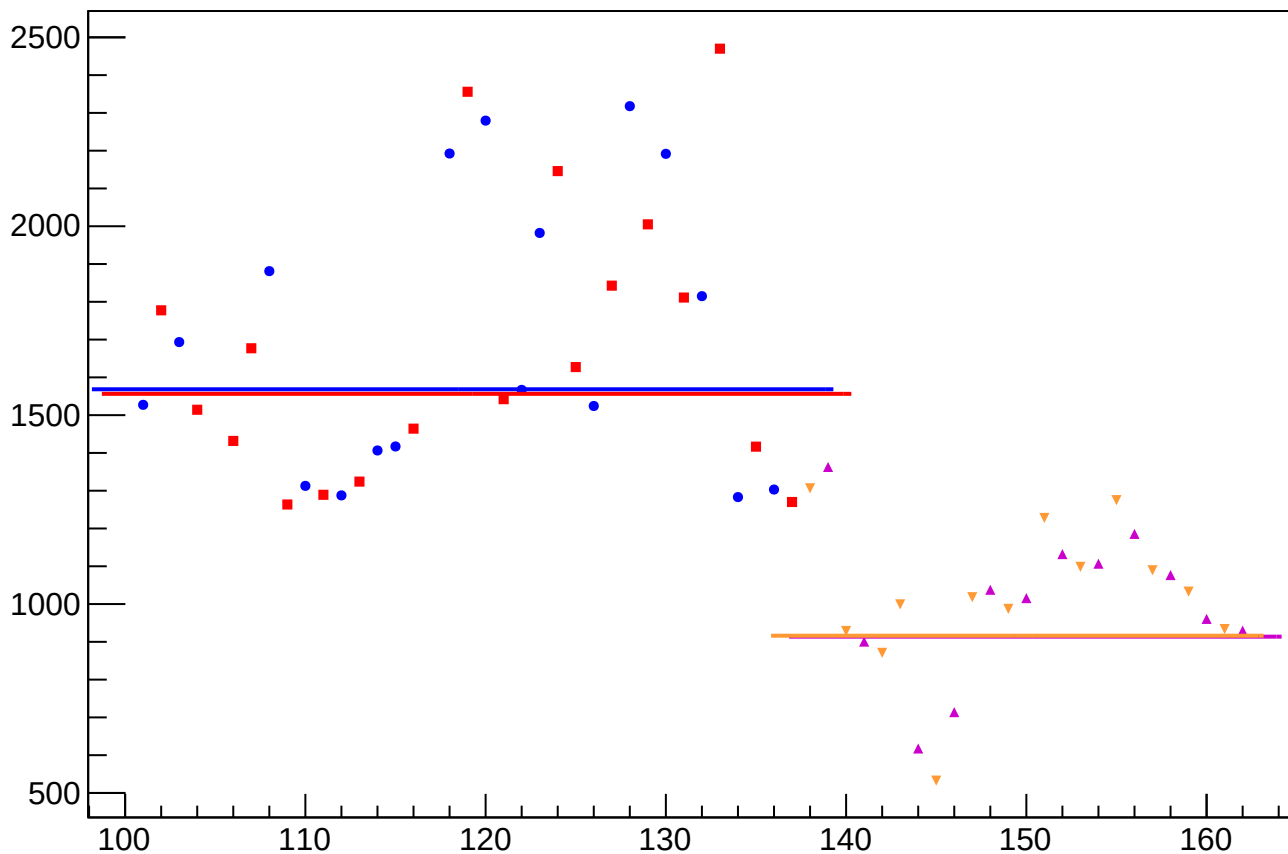
Left In:  $-74.181 \pm 299.950$   $\chi^2/\text{NDF}$ : 8.1/11

+ sign  $-1420.484 \pm 271.888$   $\chi^2/\text{NDF}$ : 67.1/29

All:  $-841.519 \pm 190.953$   $\chi^2/\text{NDF}$ : 95.8/59

- sign  $-277.960 \pm 268.246$   $\chi^2/\text{NDF}$ : 19.8/29

# asym\_sam3\_correction\_rms vs Slug



Right In: 1568.480 $\pm$ 0.439  $\chi^2$ /NDF: 534197.6/16

Left Out: 916.226 $\pm$ 0.214  $\chi^2$ /NDF:1286583.2/12

Right Out: 1556.423 $\pm$ 0.424  $\chi^2$ /NDF: 510453.6/17

Left In: 913.704 $\pm$ 0.212  $\chi^2$ /NDF:950038.9/11

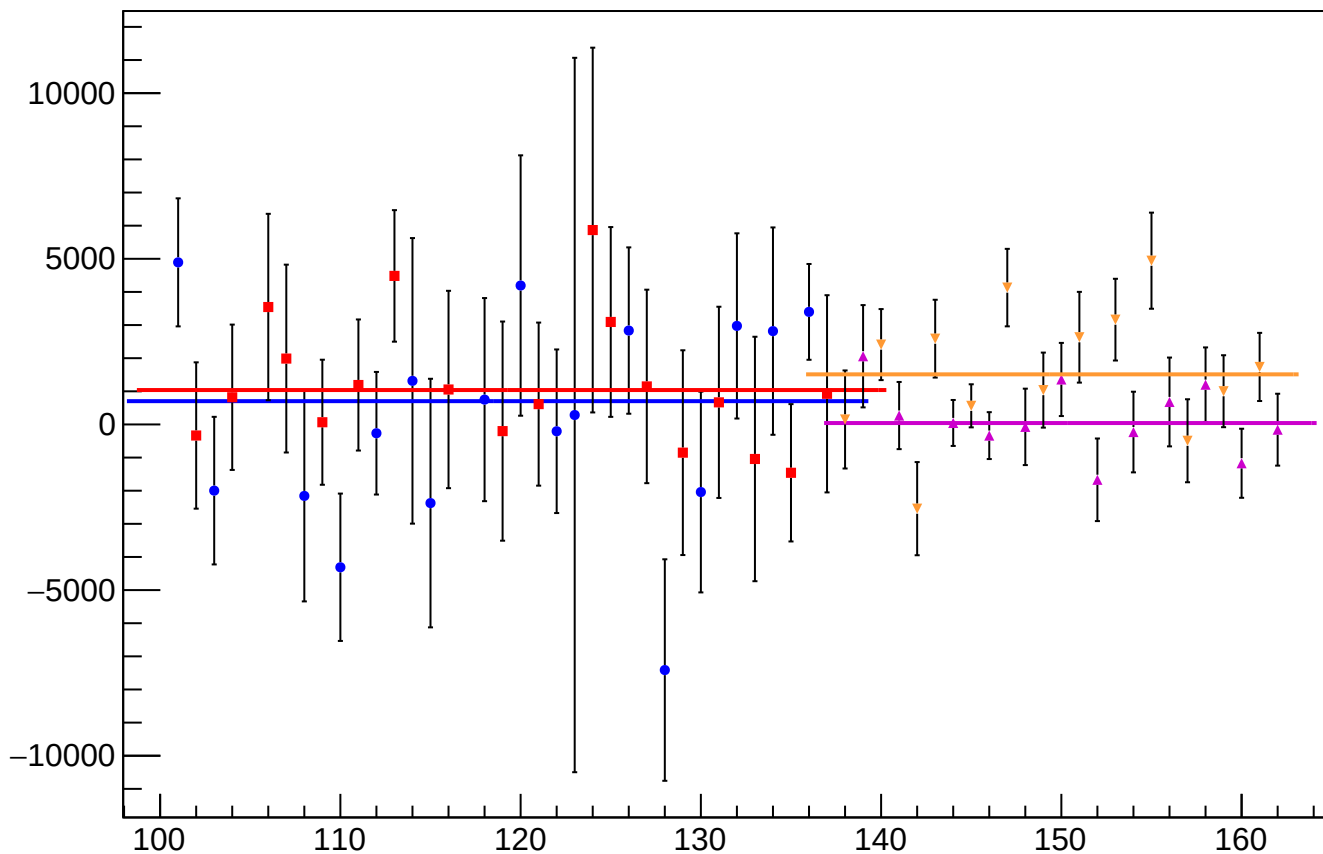
+ sign 1041.060 $\pm$ 0.192  $\chi^2$ /NDF: 3602095.0/29

All: 1041.734 $\pm$ 0.135  $\chi^2$ /NDF: 6901219.0/59

- sign 1042.391 $\pm$ 0.190  $\chi^2$ /NDF: 3299099.8/29



# asym\_sam3\_mean vs Slug



Right In: 703.057+/-620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1512.163+/-308.176  $\chi^2/\text{NDF}$ :28.9/12

Right Out: 1038.423+/-604.250  $\chi^2/\text{NDF}$ : 8.2/17

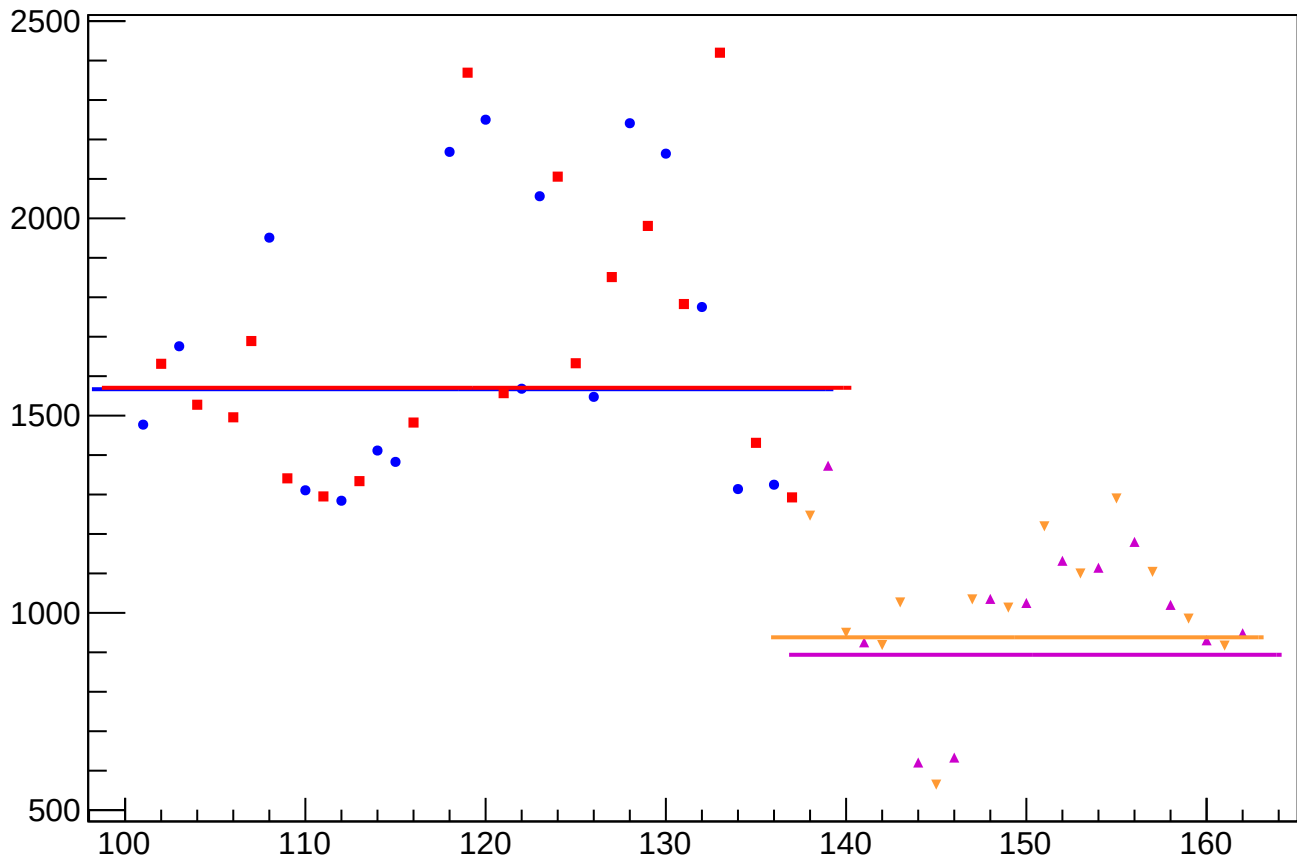
Left In: 42.361+/-295.205  $\chi^2/\text{NDF}$ :8.1/11

+ sign 1352.120+/-276.020  $\chi^2/\text{NDF}$ : 56.2/29

All: 770.958+/-191.252  $\chi^2/\text{NDF}$ : 83.3/59

- sign 234.291+/-265.243  $\chi^2/\text{NDF}$ : 18.5/29

# asym\_sam3\_rms vs Slug



Right In: 1566.937 $\pm$ 0.439  $\chi^2$ /NDF: 499846.2/16

Left Out: 938.057 $\pm$ 0.218  $\chi^2$ /NDF: 1056980.5/12

Right Out: 1570.549 $\pm$ 0.427  $\chi^2$ /NDF: 439261.0/17

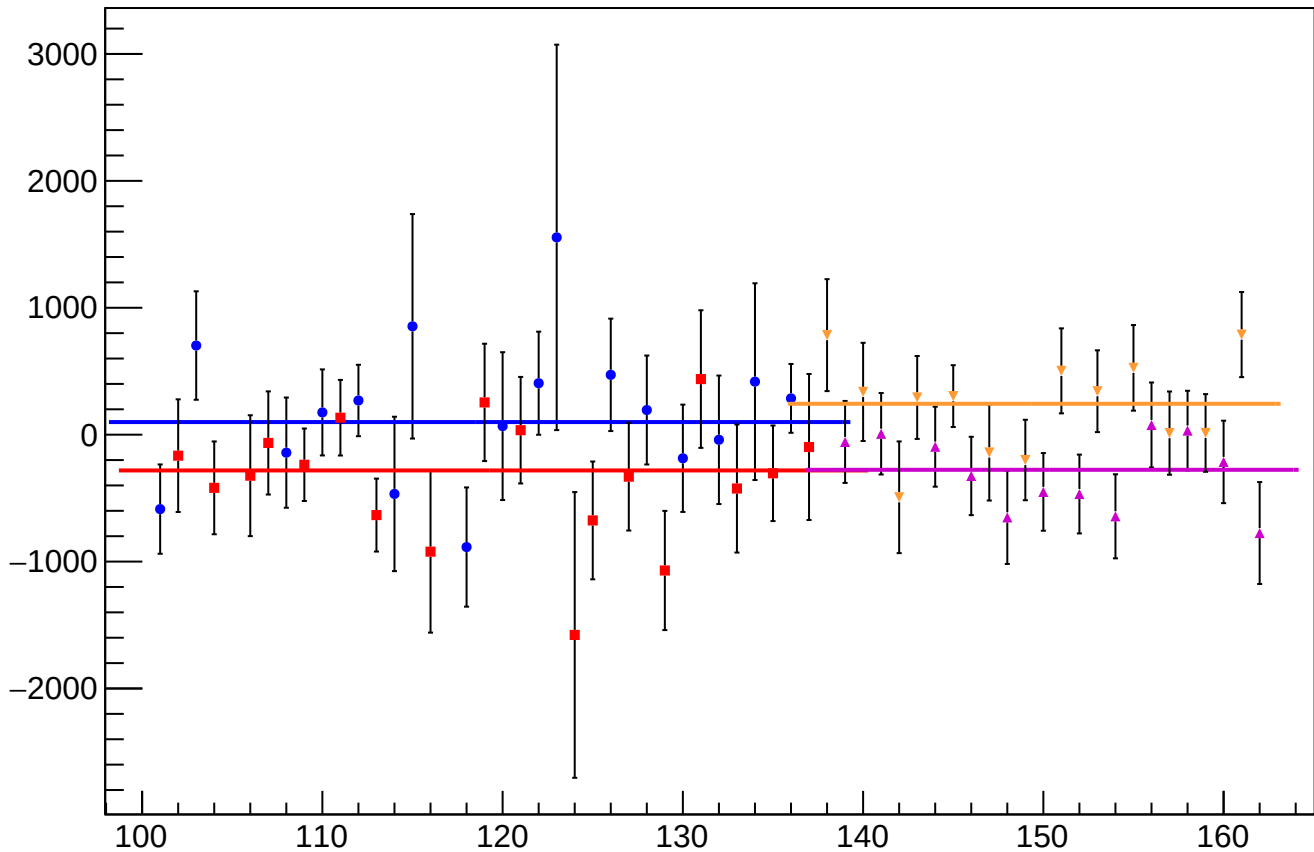
Left In: 893.774 $\pm$ 0.209  $\chi^2$ /NDF: 1096940.5/11

+ sign 1062.451 $\pm$ 0.195  $\chi^2$ /NDF: 3204218.1/29

All: 1042.554 $\pm$ 0.135  $\chi^2$ /NDF: 6785880.8/59

- sign 1024.181 $\pm$ 0.188  $\chi^2$ /NDF: 3561673.6/29

# dit\_asym\_sam4\_mean vs Slug



Right In:  $99.387 \pm 103.463$   $\chi^2/\text{NDF}: 15.9/16$

Left Out:  $243.479 \pm 92.714$   $\chi^2/\text{NDF}: 12.5/12$

Right Out:  $-281.830 \pm 97.880$   $\chi^2/\text{NDF}: 13.7/17$

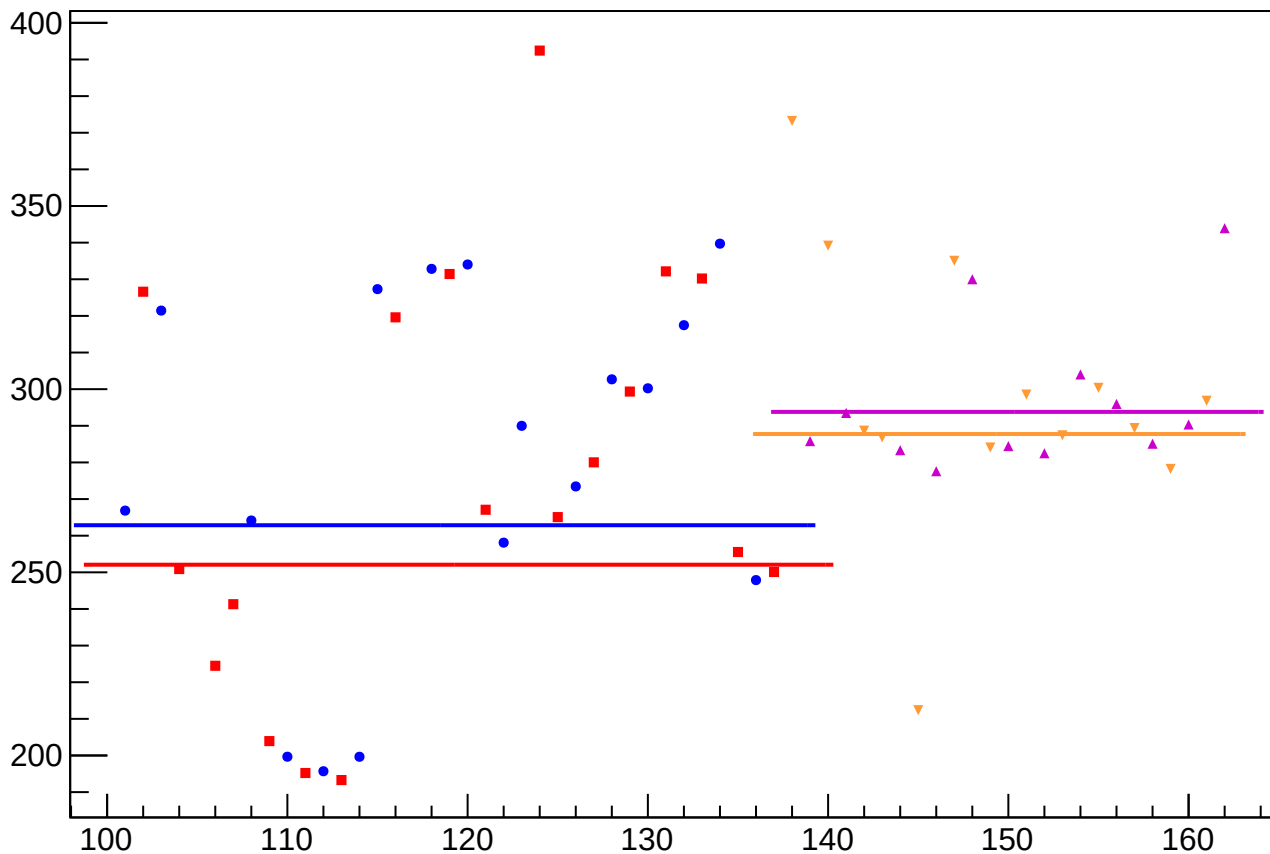
Left In:  $-276.711 \pm 94.406$   $\chi^2/\text{NDF}: 8.2/11$

+ sign  $179.305 \pm 69.047$   $\chi^2/\text{NDF}: 29.5/29$

All:  $-53.608 \pm 48.431$   $\chi^2/\text{NDF}: 73.9/59$

- sign  $-279.178 \pm 67.950$   $\chi^2/\text{NDF}: 21.9/29$

# dit\_asym\_sam4\_rms vs Slug



Right In:  $262.856 \pm 0.073$   $\chi^2/\text{NDF}$ : 411698.3/16

Left Out:  $287.752 \pm 0.066$   $\chi^2/\text{NDF}$ : 341781.0/12

Right Out:  $252.079 \pm 0.069$   $\chi^2/\text{NDF}$ : 515150.4/17

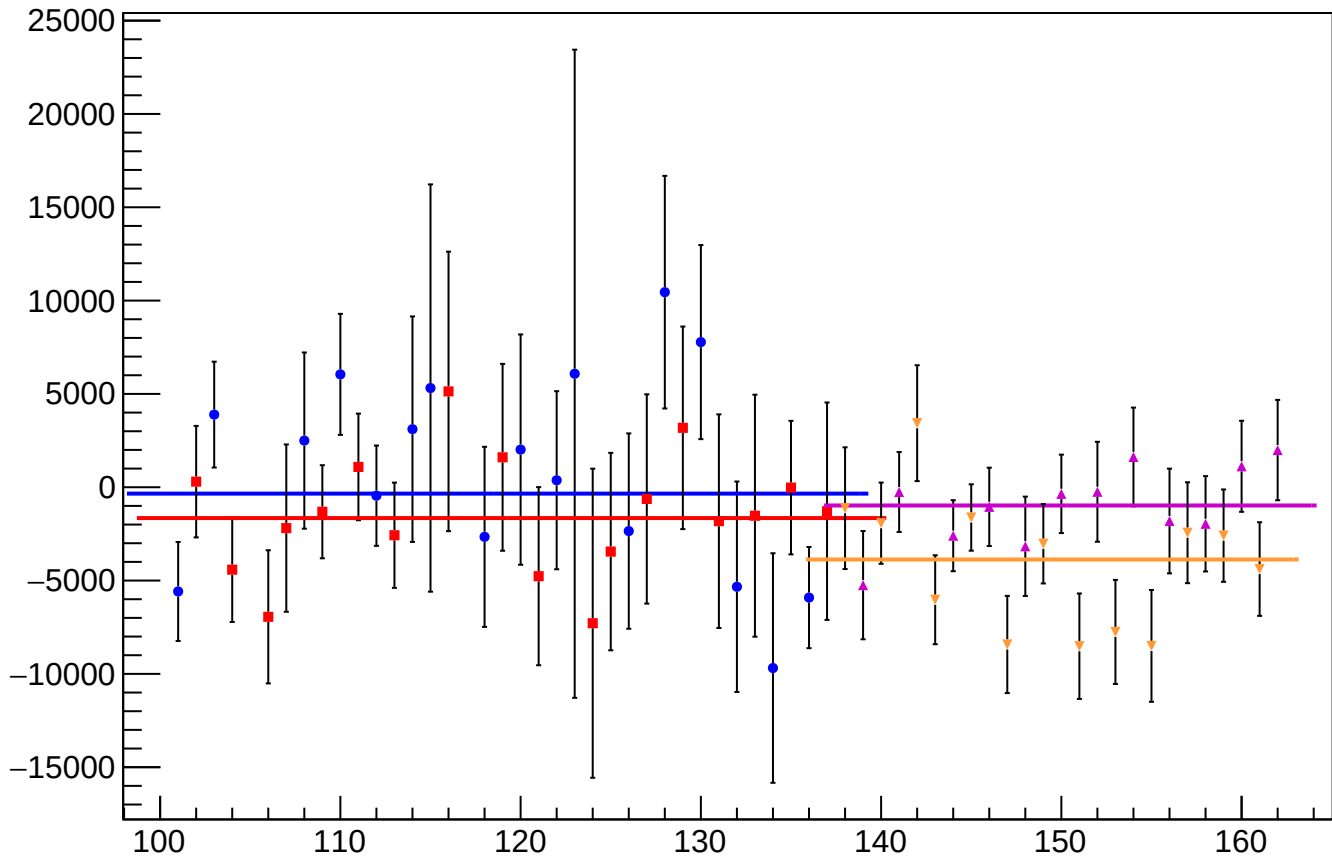
Left In:  $293.799 \pm 0.067$   $\chi^2/\text{NDF}$ : 67827.6/11

+ sign  $276.664 \pm 0.049$   $\chi^2/\text{NDF}$ : 817705.2/29

All:  $275.155 \pm 0.034$   $\chi^2/\text{NDF}$ : 1590803.9/59

- sign  $273.693 \pm 0.048$   $\chi^2/\text{NDF}$ : 771216.9/29

# asym\_sam4\_correction\_mean vs Slug



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}$ : 24.4/16

Left Out:  $-3871.285 \pm 690.950$   $\chi^2/\text{NDF}$ : 20.3/12

Right Out:  $-1651.954 \pm 929.858$   $\chi^2/\text{NDF}$ : 7.9/17

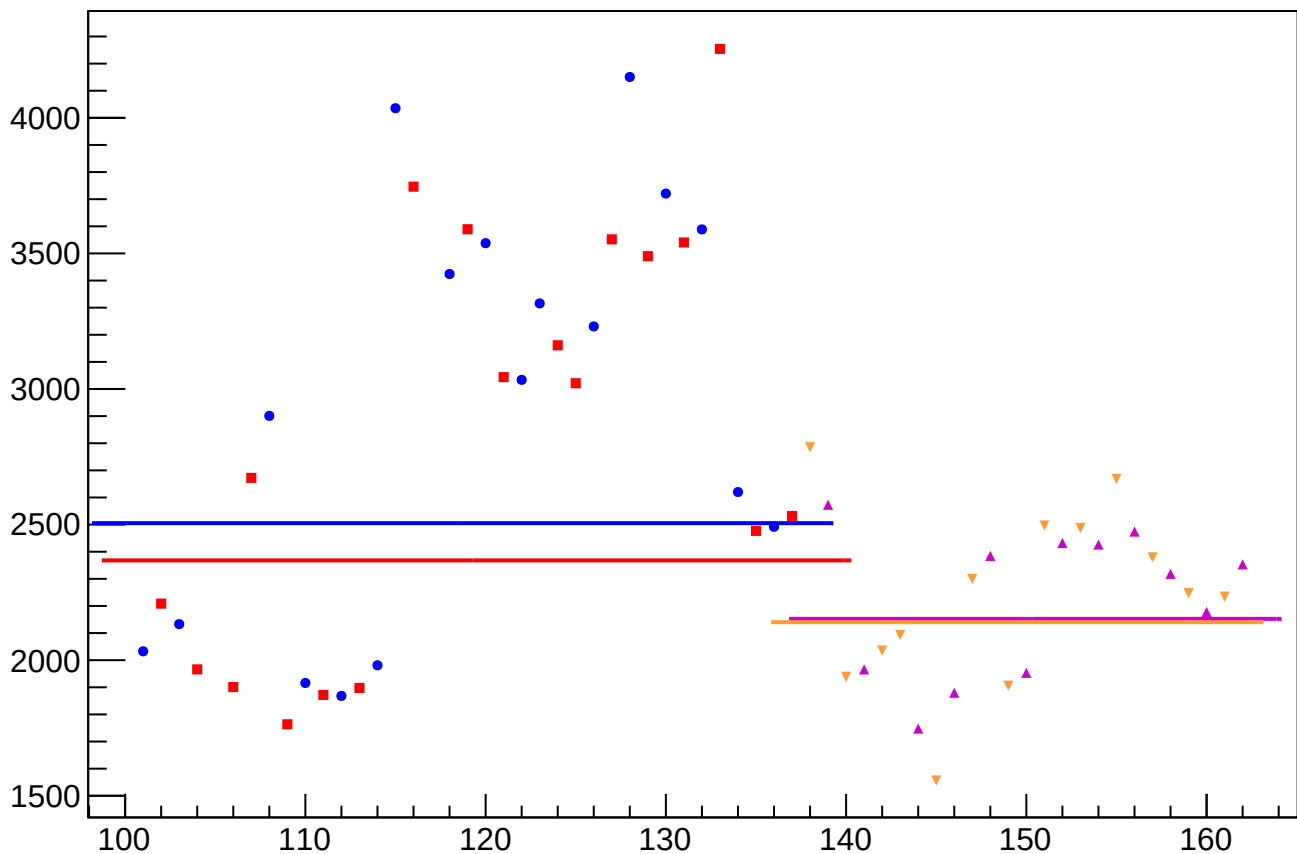
Left In:  $-977.667 \pm 693.748$   $\chi^2/\text{NDF}$ : 7.0/11

+ sign  $-2737.808 \pm 569.302$   $\chi^2/\text{NDF}$ : 53.1/29

All:  $-1960.402 \pm 397.787$   $\chi^2/\text{NDF}$ : 72.0/59

- sign  $-1218.784 \pm 556.043$   $\chi^2/\text{NDF}$ : 15.3/29

# asym\_sam4\_correction\_rms vs Slug



Right In: 2505.329 $\pm$ 0.710  $\chi^2$ /NDF: 864133.9/16

Left Out: 2140.079 $\pm$ 0.489  $\chi^2$ /NDF: 493159.4/12

Right Out: 2368.003 $\pm$ 0.658  $\chi^2$ /NDF: 1030879.9/17

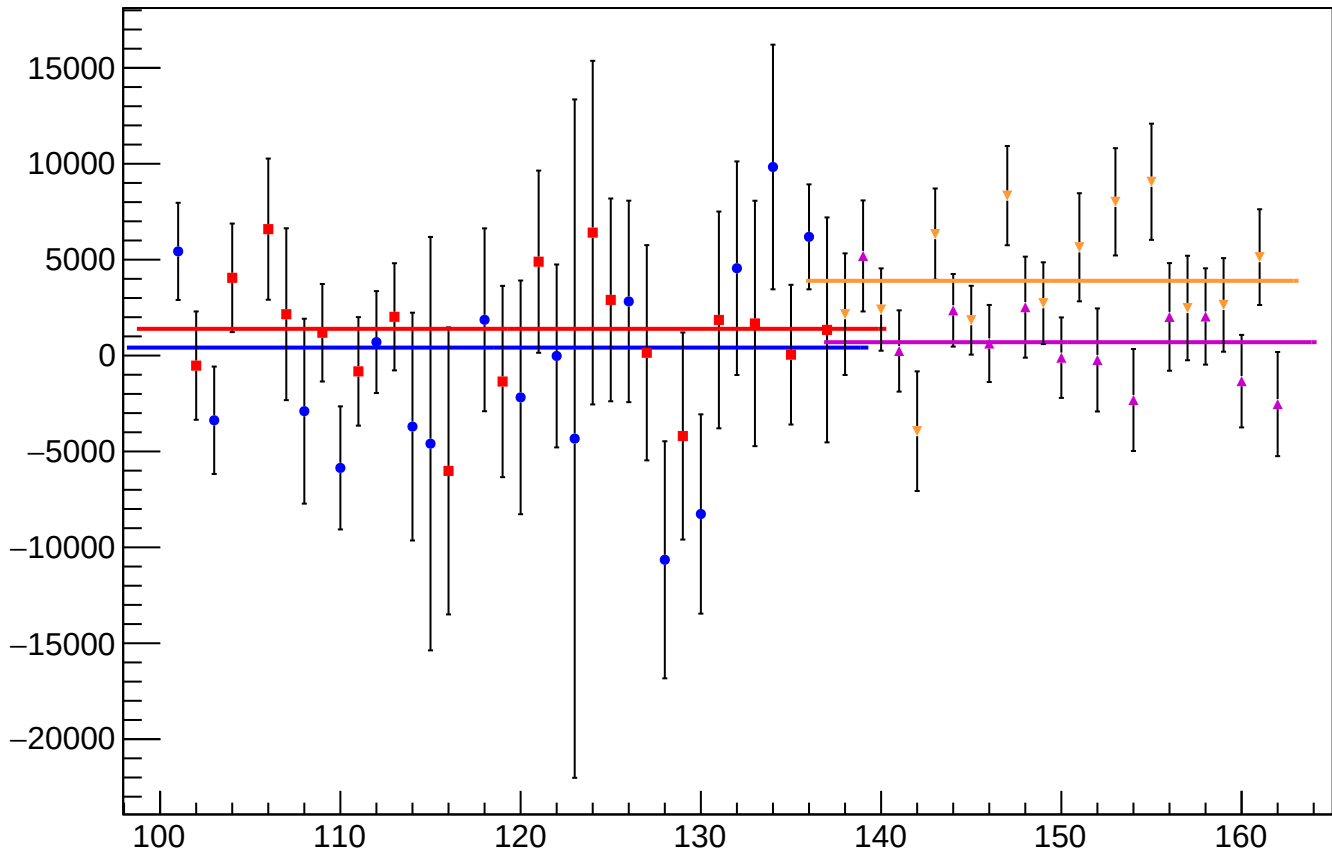
Left In: 2152.367 $\pm$ 0.491  $\chi^2$ /NDF: 304185.5/11

+ sign 2257.369 $\pm$ 0.403  $\chi^2$ /NDF: 1536760.8/29

All: 2243.094 $\pm$ 0.281  $\chi^2$ /NDF: 2943379.0/59

- sign 2229.476 $\pm$ 0.393  $\chi^2$ /NDF: 1404161.2/29

# asym\_sam4\_mean vs Slug



Right In: 415.549 $\pm$ 994.913  $\chi^2$ /NDF: 24.5/16

Left Out: 3897.896 $\pm$ 689.784  $\chi^2$ /NDF:19.0/12

Right Out: 1394.660 $\pm$ 928.996  $\chi^2$ /NDF: 7.5/17

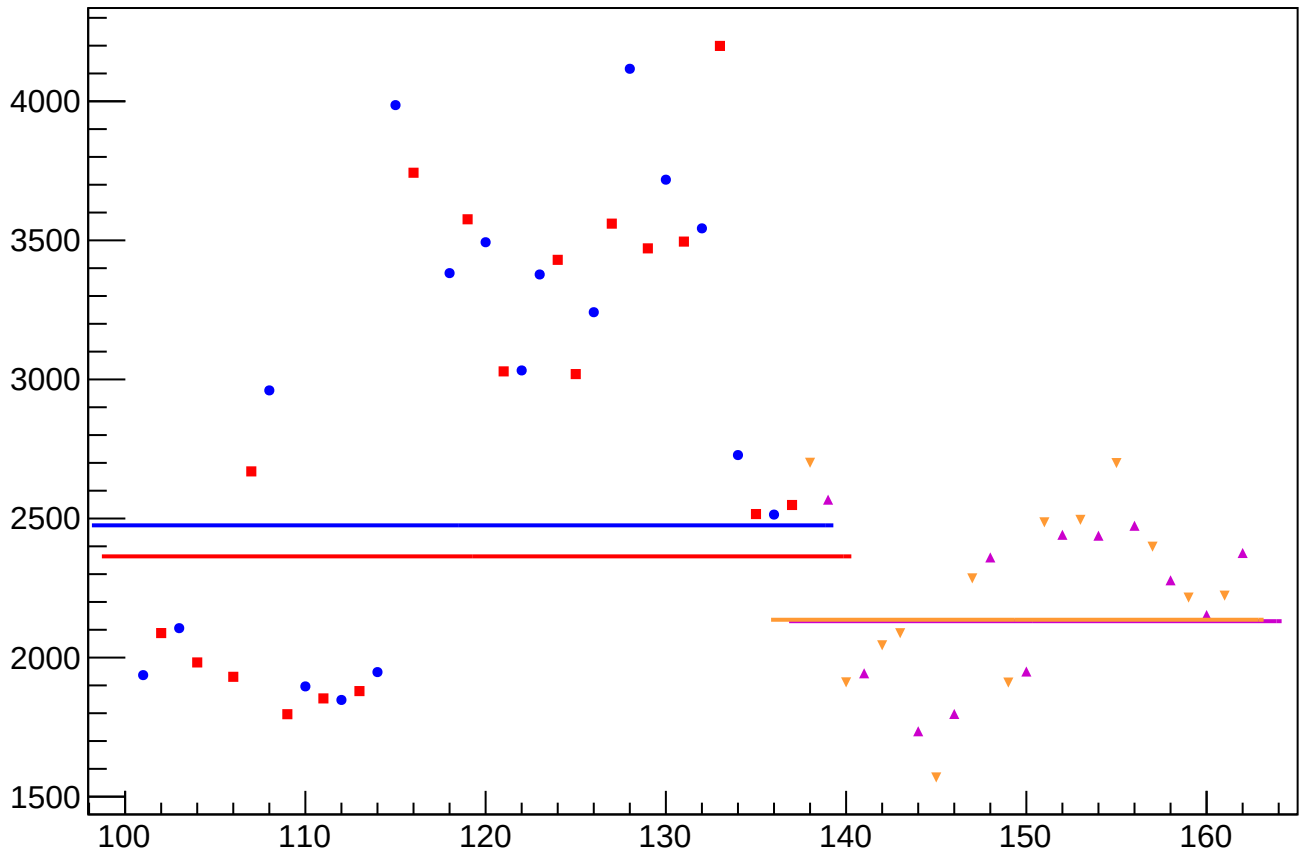
Left In: 697.331 $\pm$ 687.951  $\chi^2$ /NDF:7.9/11

+ sign 2767.406 $\pm$ 566.869  $\chi^2$ /NDF: 51.7/29

All: 1833.054 $\pm$ 395.792  $\chi^2$ /NDF: 72.8/59

- sign 944.302 $\pm$ 552.863  $\chi^2$ /NDF: 15.8/29

# asym\_sam4\_rms vs Slug



Right In: 2475.435+/-0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 2136.035+/-0.488  $\chi^2/\text{NDF}$ : 472607.6/12

+ sign 2246.216+/-0.401  $\chi^2/\text{NDF}$ : 1542869.8/29

Right Out: 2363.907+/-0.657  $\chi^2/\text{NDF}$ : 1026875.6/17

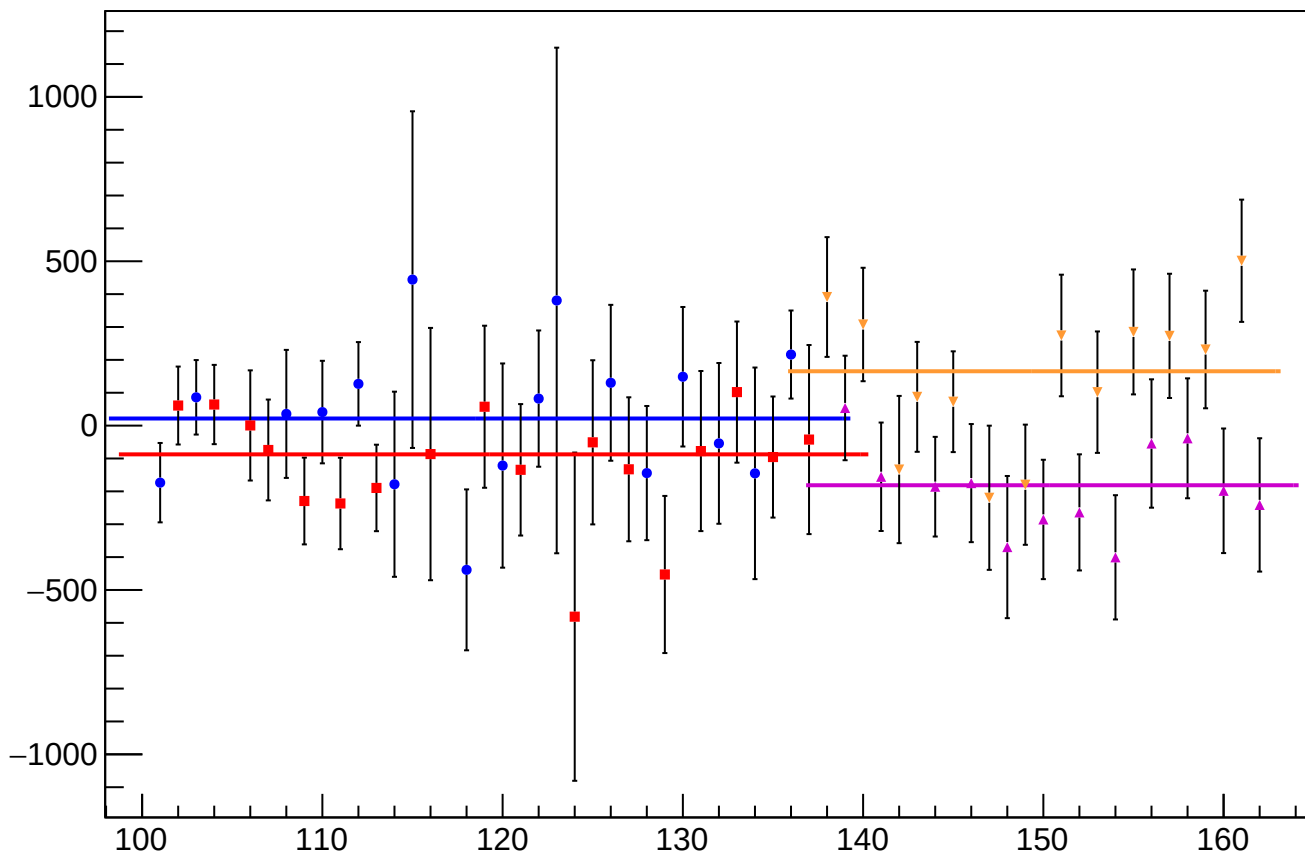
All: 2229.399+/-0.280  $\chi^2/\text{NDF}$ : 2994800.5/59

Left In: 2130.869+/-0.486  $\chi^2/\text{NDF}$ : 340341.8/11

- sign 2213.403+/-0.391  $\chi^2/\text{NDF}$ : 1448496.3/29



# dit\_asym\_sam5\_mean vs Slug



Right In: 21.649 $\pm$ 45.157  $\chi^2$ /NDF: 12.6/16

Left Out: 165.375 $\pm$ 50.826  $\chi^2$ /NDF: 15.8/12

Right Out: -87.439 $\pm$ 41.826  $\chi^2$ /NDF: 10.9/17

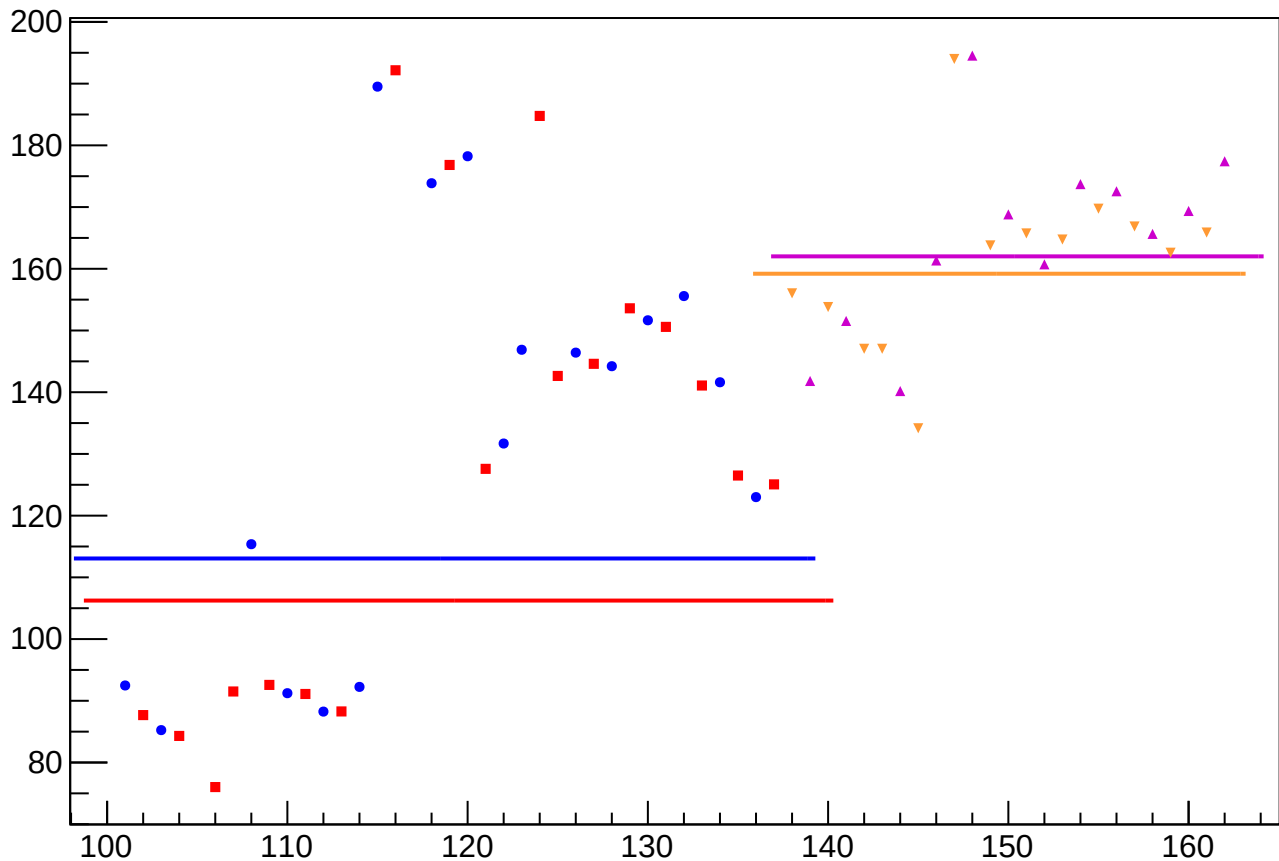
Left In: -181.407 $\pm$ 51.917  $\chi^2$ /NDF: 6.0/11

+ sign 85.053 $\pm$ 33.758  $\chi^2$ /NDF: 32.9/29

All: -23.432 $\pm$ 23.439  $\chi^2$ /NDF: 71.7/59

- sign -124.424 $\pm$ 32.571  $\chi^2$ /NDF: 18.9/29

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.059 $\pm$ 0.032  $\chi^2$ /NDF: 820795.9/16

Left Out: 159.199 $\pm$ 0.036  $\chi^2$ /NDF: 141067.9/12

Right Out: 106.240 $\pm$ 0.030  $\chi^2$ /NDF: 951702.9/17

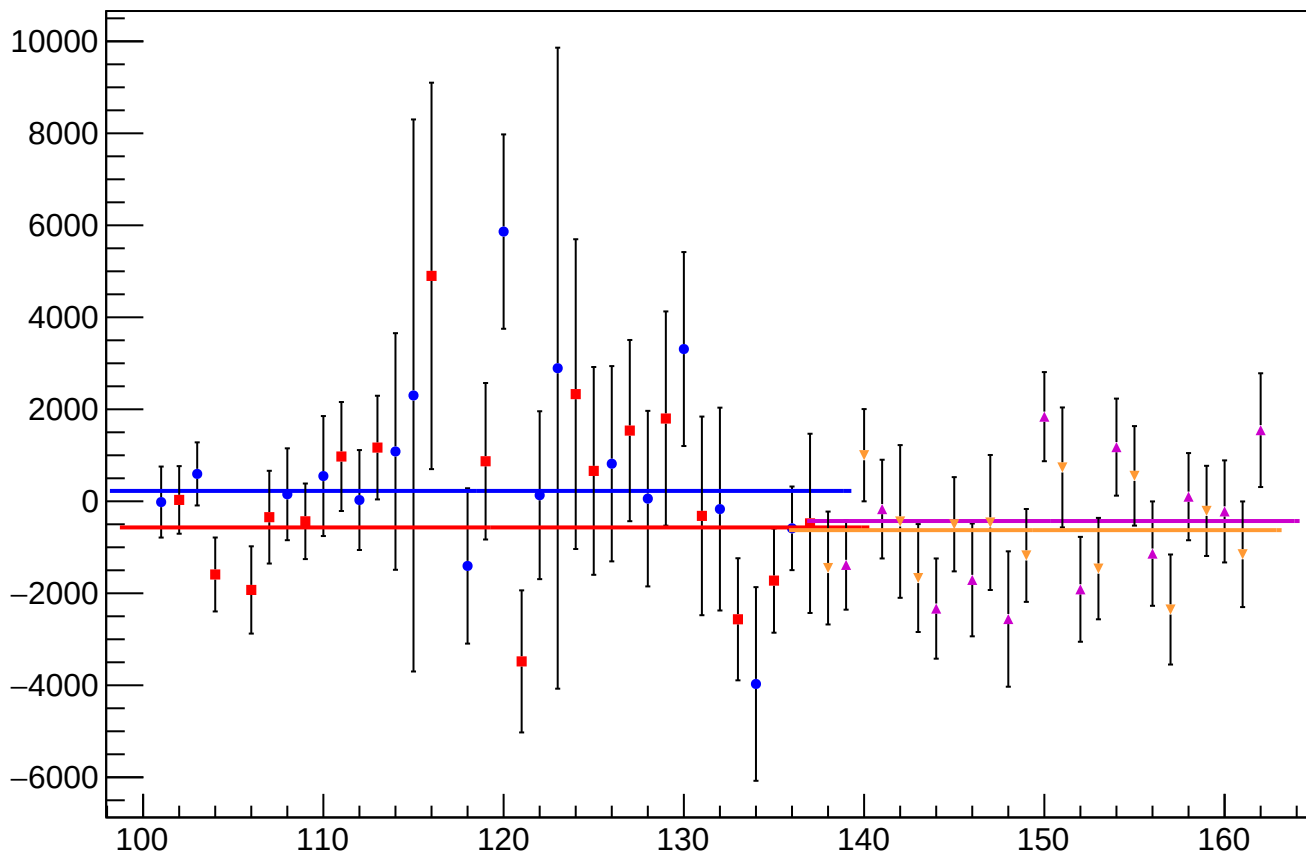
Left In: 162.012 $\pm$ 0.037  $\chi^2$ /NDF: 158816.2/11

+ sign 133.413 $\pm$ 0.024  $\chi^2$ /NDF: 1882988.3/29

All: 130.709 $\pm$ 0.017  $\chi^2$ /NDF: 4417912.7/59

- sign 128.192 $\pm$ 0.023  $\chi^2$ /NDF: 2510144.8/29

# asym\_sam5\_correction\_mean vs Slug



Right In:  $225.635 \pm 321.412$   $\chi^2/\text{NDF}: 16.0/16$

Left Out:  $-627.090 \pm 317.658$   $\chi^2/\text{NDF}: 9.5/12$

Right Out:  $-568.109 \pm 290.500$   $\chi^2/\text{NDF}: 21.0/17$

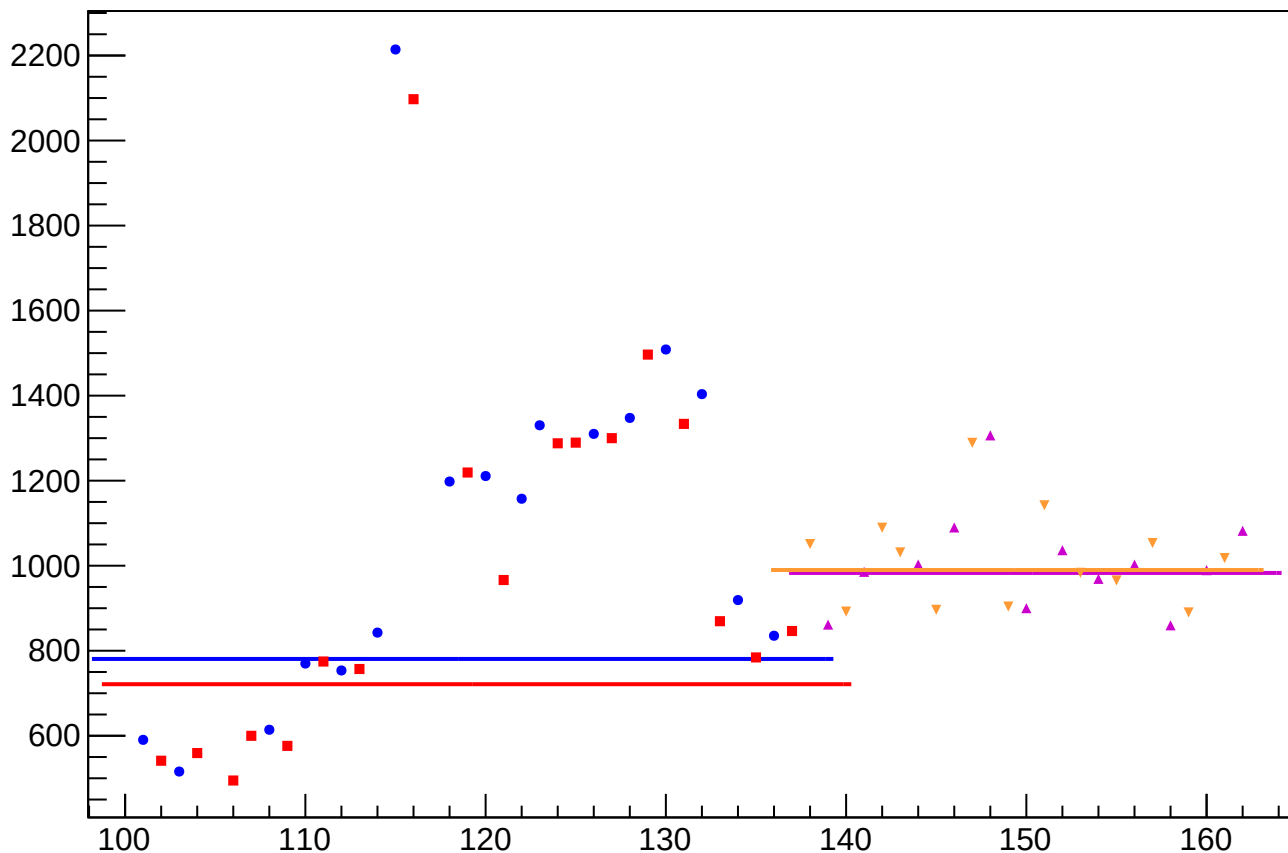
Left In:  $-428.904 \pm 316.518$   $\chi^2/\text{NDF}: 20.0/11$

+ sign  $-205.735 \pm 225.934$   $\chi^2/\text{NDF}: 29.1/29$

All:  $-363.180 \pm 155.377$   $\chi^2/\text{NDF}: 71.1/59$

- sign  $-504.462 \pm 214.022$   $\chi^2/\text{NDF}: 41.1/29$

# asym\_sam5\_correction\_rms vs Slug



Right In: 780.700 $\pm$ 0.227  $\chi^2$ /NDF: 1609510.2/16

Left Out: 989.843 $\pm$ 0.225  $\chi^2$ /NDF: 203876.0/12

Right Out: 721.264 $\pm$ 0.205  $\chi^2$ /NDF: 1626627.9/17

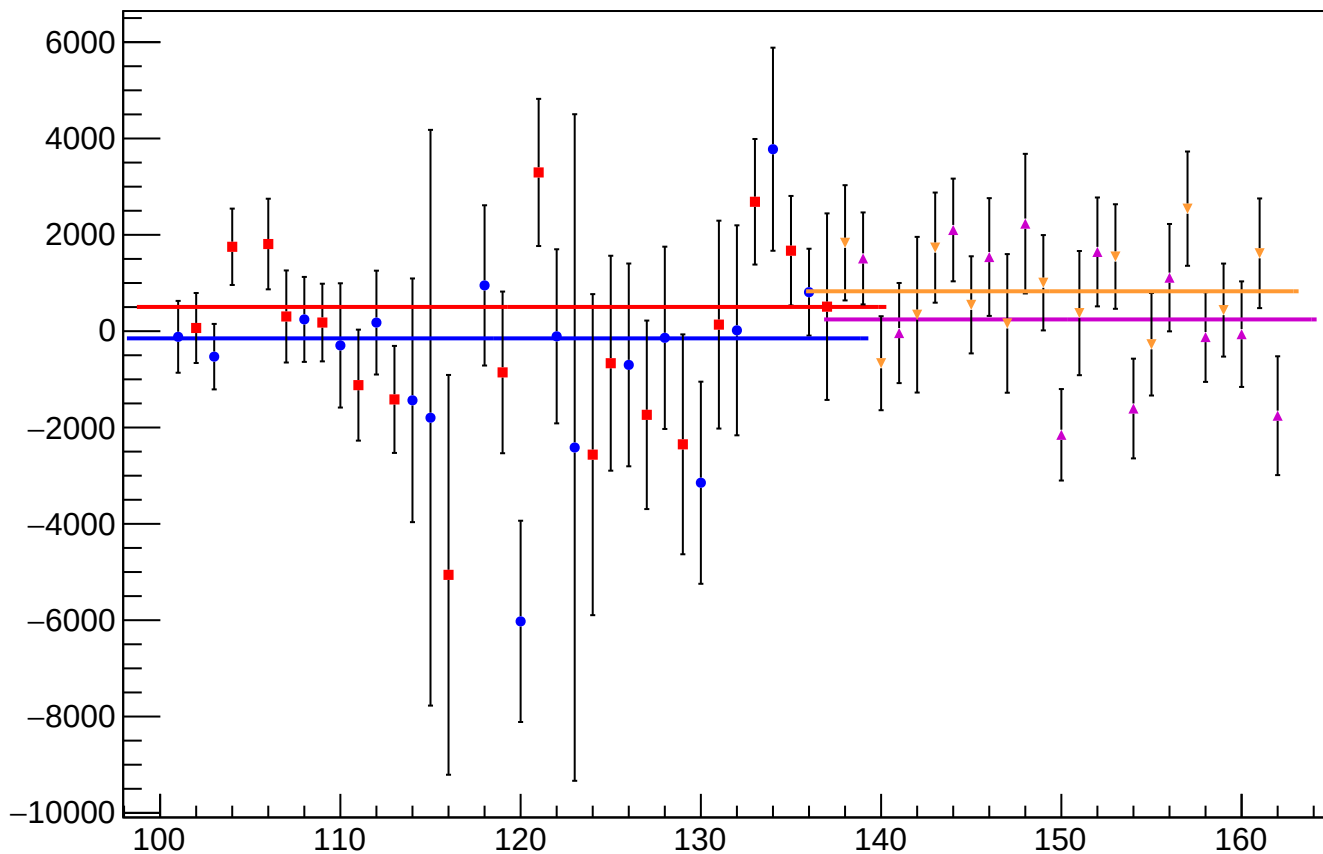
Left In: 982.985 $\pm$ 0.224  $\chi^2$ /NDF: 210439.2/11

+ sign 886.500 $\pm$ 0.160  $\chi^2$ /NDF: 2241772.0/29

All: 862.481 $\pm$ 0.110  $\chi^2$ /NDF: 4863955.5/59

- sign 840.927 $\pm$ 0.151  $\chi^2$ /NDF: 2579295.5/29

# asym\_sam5\_mean vs Slug



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $828.290 \pm 311.972$   $\chi^2/\text{NDF}$ : 8.5/12

Right Out:  $503.162 \pm 285.781$   $\chi^2/\text{NDF}$ : 23.6/17

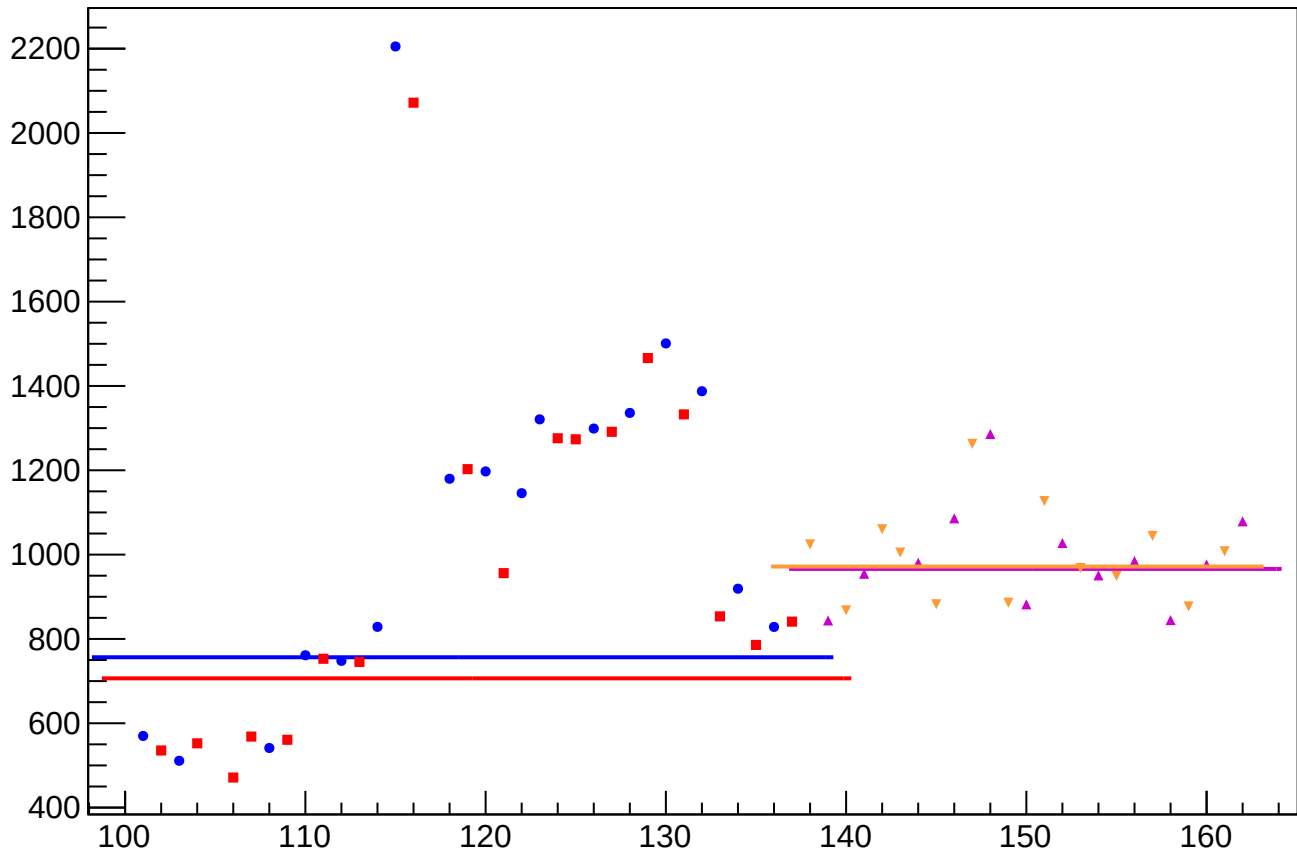
Left In:  $243.843 \pm 311.242$   $\chi^2/\text{NDF}$ : 22.4/11

+ sign  $341.114 \pm 220.947$   $\chi^2/\text{NDF}$ : 29.5/29

All:  $363.879 \pm 152.407$   $\chi^2/\text{NDF}$ : 75.9/59

- sign  $384.542 \pm 210.504$   $\chi^2/\text{NDF}$ : 46.4/29

# asym\_sam5\_rms vs Slug



Right In: 756.539 $\pm$ 0.221  $\chi^2$ /NDF: 1713642.0/16

Left Out: 971.718 $\pm$ 0.221  $\chi^2$ /NDF: 205479.4/12

Right Out: 706.550 $\pm$ 0.202  $\chi^2$ /NDF: 1670007.9/17

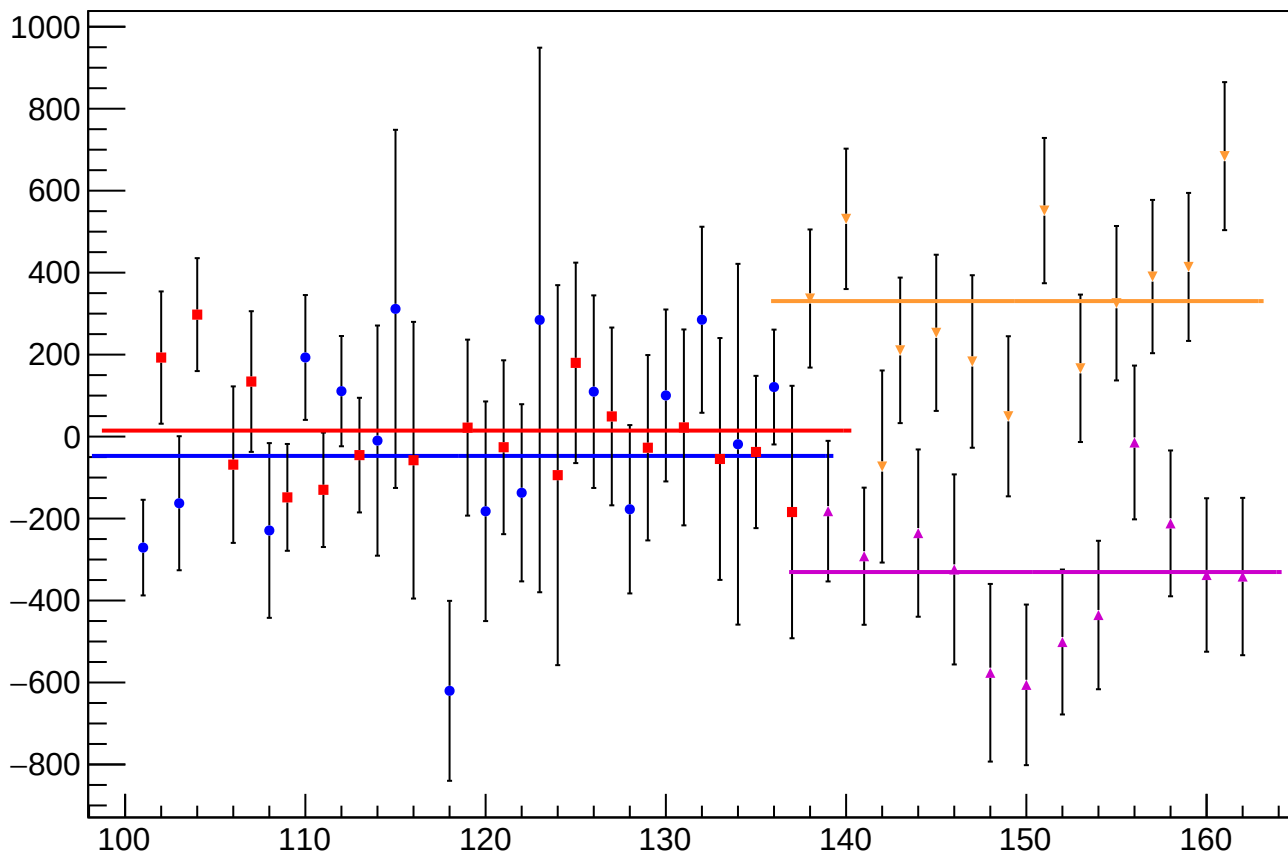
Left In: 966.063 $\pm$ 0.220  $\chi^2$ /NDF: 223645.7/11

+ sign 864.470 $\pm$ 0.156  $\chi^2$ /NDF: 2393354.3/29

All: 843.916 $\pm$ 0.108  $\chi^2$ /NDF: 5074433.1/59

- sign 825.259 $\pm$ 0.149  $\chi^2$ /NDF: 2648060.2/29

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $330.598 \pm 51.543$   $\chi^2/\text{NDF}: 14.1/12$

Right Out:  $14.620 \pm 44.849$   $\chi^2/\text{NDF}: 10.1/17$

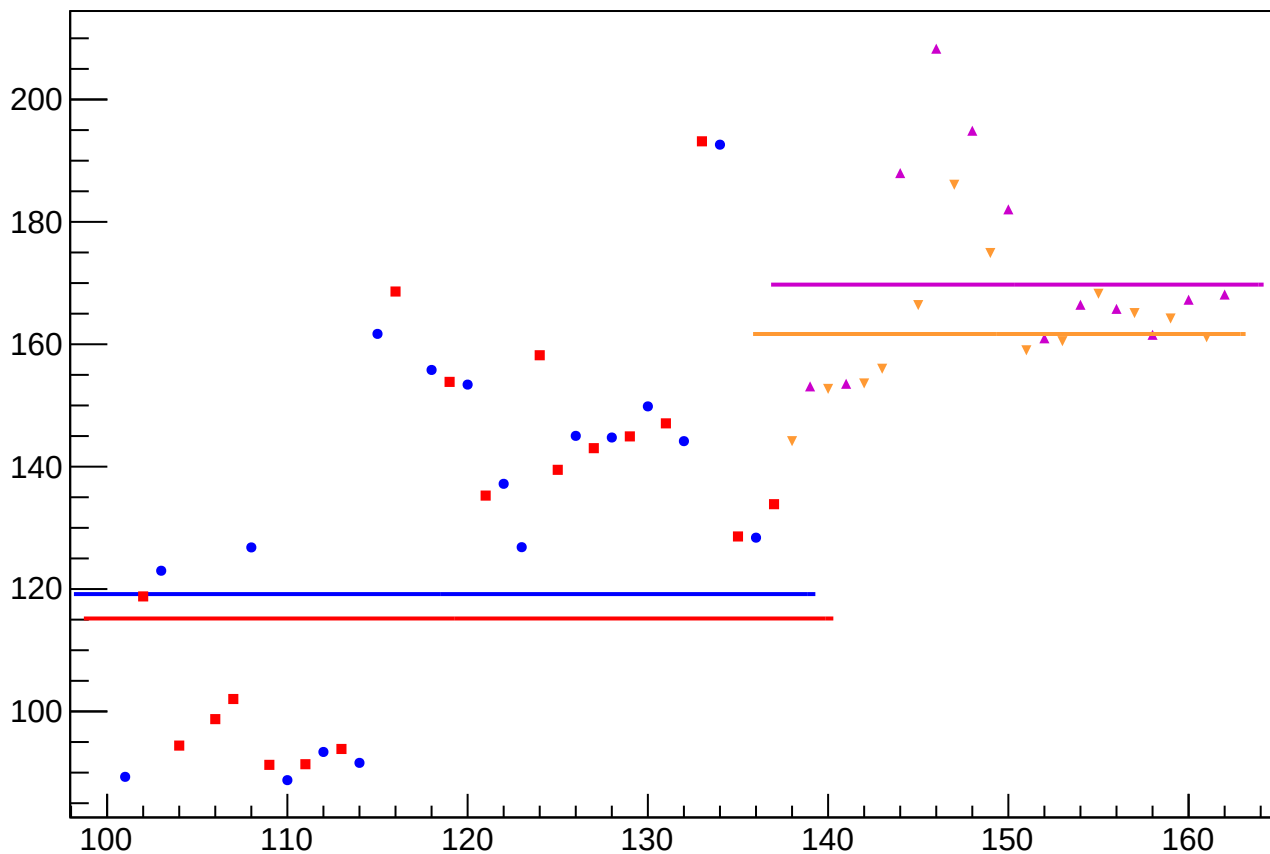
Left In:  $-330.491 \pm 54.409$   $\chi^2/\text{NDF}: 8.8/11$

+ sign  $125.410 \pm 34.837$   $\chi^2/\text{NDF}: 65.1/29$

All:  $-0.626 \pm 24.552$   $\chi^2/\text{NDF}: 134.1/59$

- sign  $-125.004 \pm 34.607$   $\chi^2/\text{NDF}: 42.9/29$

# dit\_asym\_sam6\_rms vs Slug



Right In: 119.175 $\pm$ 0.033  $\chi^2$ /NDF: 615304.2/16

Left Out: 161.679 $\pm$ 0.036  $\chi^2$ /NDF: 72835.7/12

Right Out: 115.188 $\pm$ 0.032  $\chi^2$ /NDF: 675564.7/17

Left In: 169.748 $\pm$ 0.038  $\chi^2$ /NDF: 154821.5/11

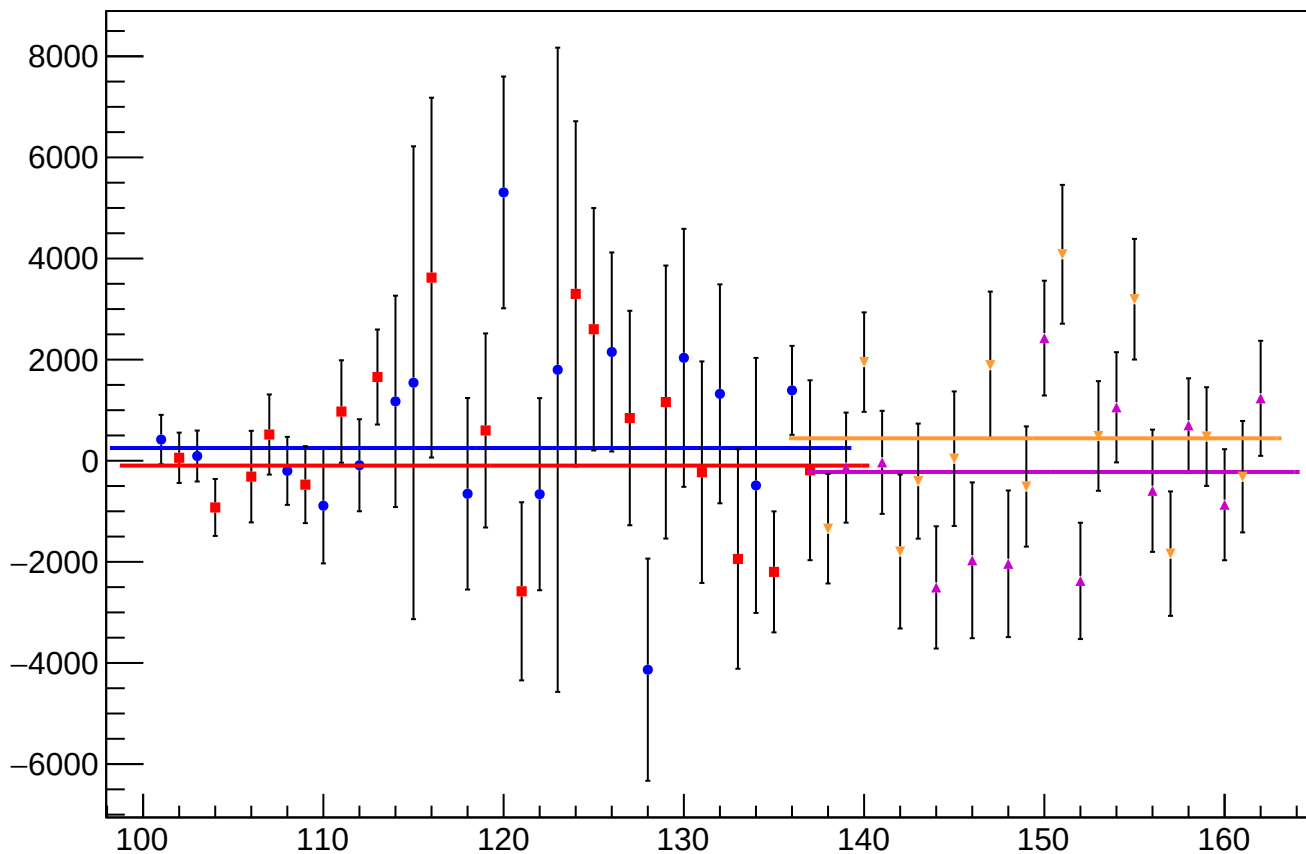
+ sign 138.592 $\pm$ 0.025  $\chi^2$ /NDF: 1426876.4/29

All: 137.922 $\pm$ 0.017  $\chi^2$ /NDF: 3456214.6/59

- sign 137.261 $\pm$ 0.024  $\chi^2$ /NDF: 2027869.5/29



# asym\_sam6\_correction\_mean vs Slug



Right In: 251.733+/-252.819  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 444.051+/-325.342  $\chi^2/\text{NDF}$ : 25.8/12

Right Out: -95.805+/-245.748  $\chi^2/\text{NDF}$ : 17.5/17

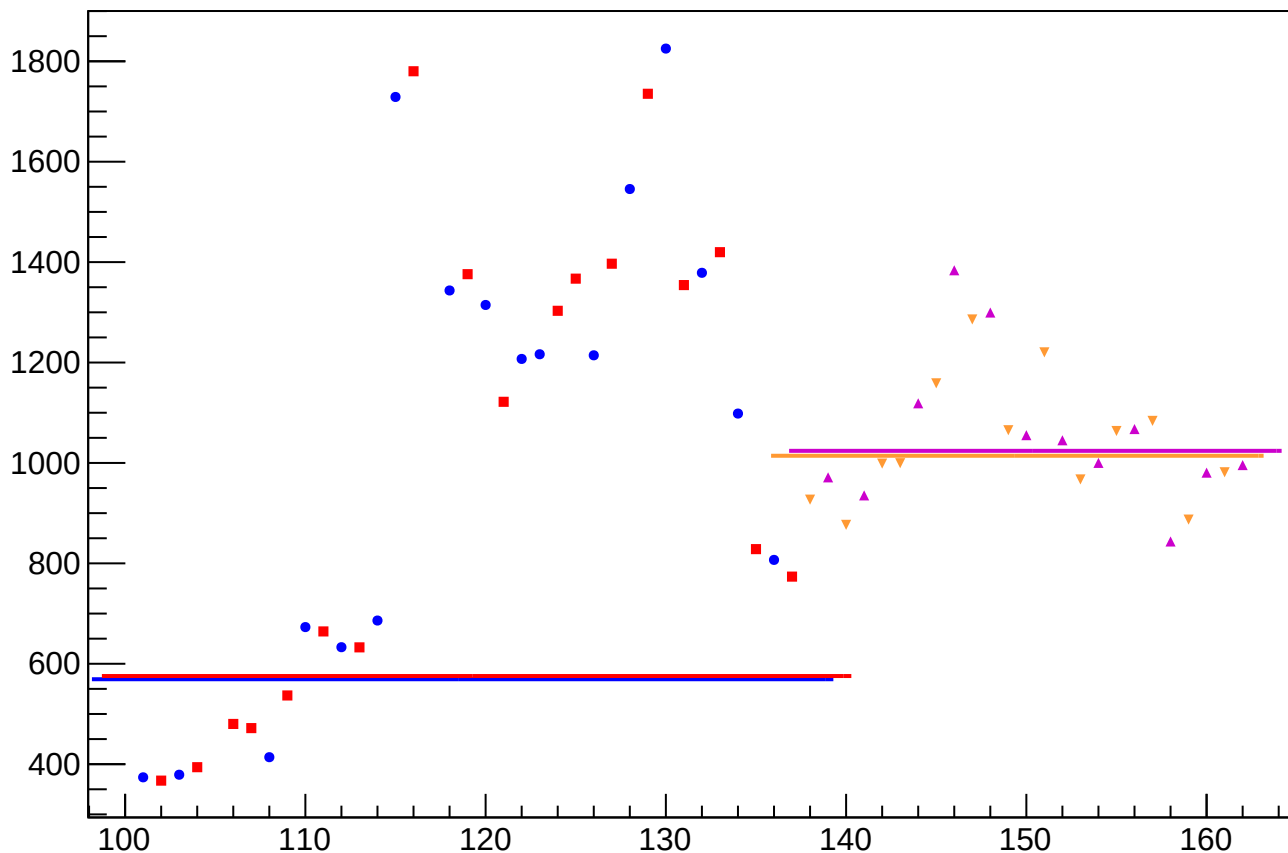
Left In: -222.133+/-329.641  $\chi^2/\text{NDF}$ : 19.9/11

+ sign 324.141+/-199.630  $\chi^2/\text{NDF}$ : 40.9/29

All: 88.547+/-140.229  $\chi^2/\text{NDF}$ : 81.0/59

- sign -140.933+/-197.023  $\chi^2/\text{NDF}$ : 37.4/29

# asym\_sam6\_correction\_rms vs Slug



Right In: 569.200+/-0.179  $\chi^2/\text{NDF}$ : 3267047.1/16

Left Out: 1014.305+/-0.230  $\chi^2/\text{NDF}$ : 243712.7/12

Right Out: 575.584+/-0.174  $\chi^2/\text{NDF}$ : 3058273.5/17

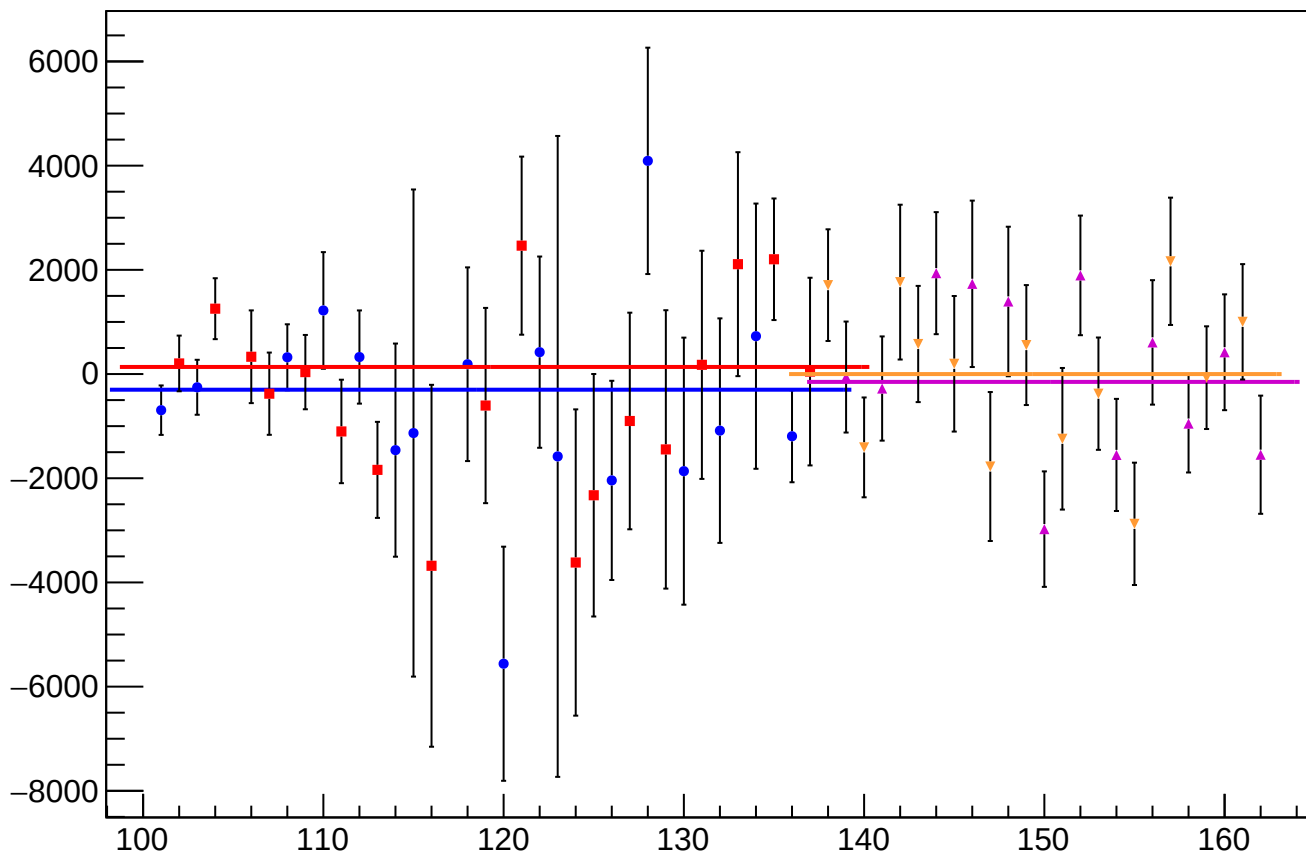
Left In: 1024.116+/-0.233  $\chi^2/\text{NDF}$ : 298790.0/11

+ sign 736.784+/-0.141  $\chi^2/\text{NDF}$ : 5844792.1/29

All: 736.293+/-0.099  $\chi^2/\text{NDF}$ : 11581955.9/59

- sign 735.814+/-0.139  $\chi^2/\text{NDF}$ : 5737139.9/29

# asym\_sam6\_mean vs Slug



Right In:  $-300.652 \pm 250.302$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $-0.544 \pm 321.199$   $\chi^2/\text{NDF}$ : 19.1/12

Right Out:  $136.107 \pm 247.692$   $\chi^2/\text{NDF}$ : 20.9/17

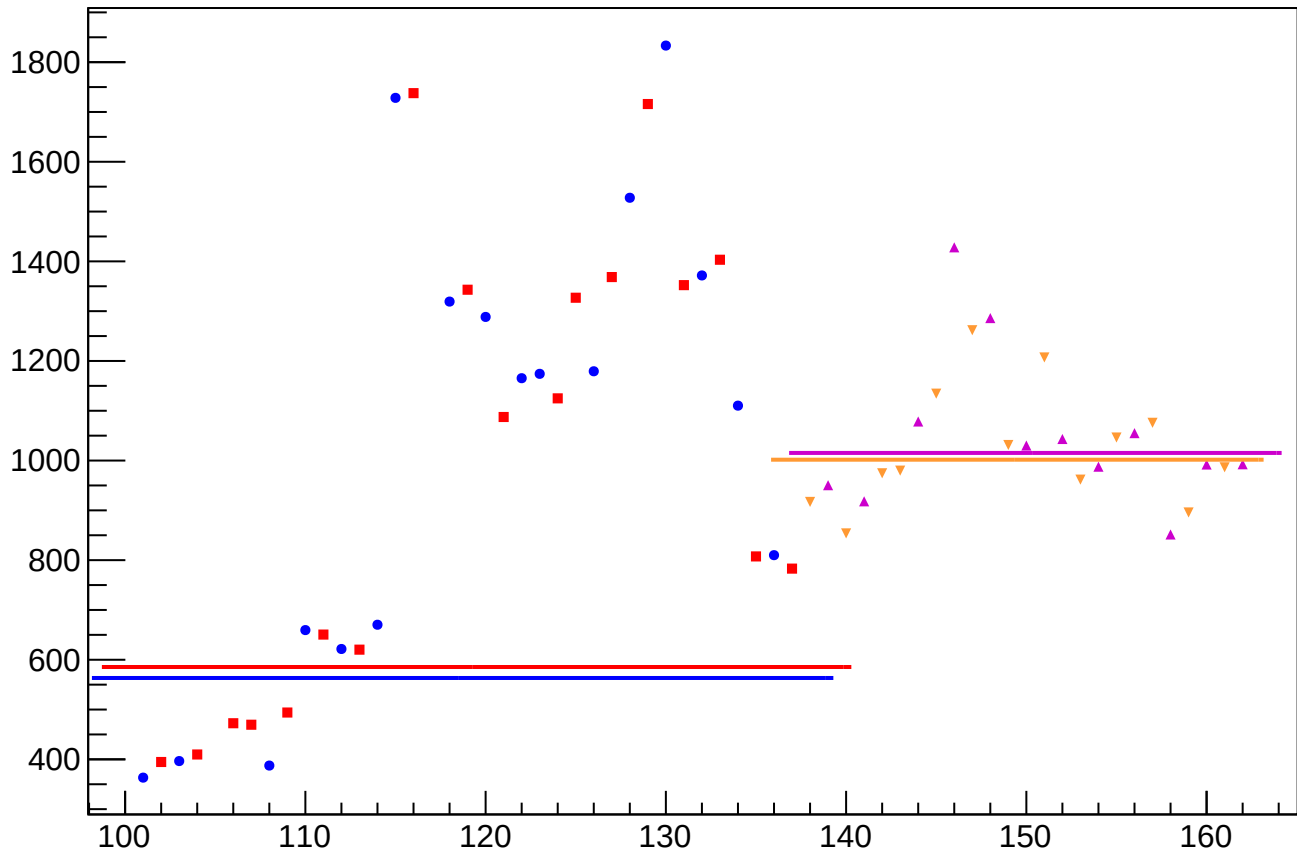
Left In:  $-150.848 \pm 327.080$   $\chi^2/\text{NDF}$ : 20.0/11

+ sign  $-187.264 \pm 197.433$   $\chi^2/\text{NDF}$ : 36.3/29

All:  $-77.886 \pm 139.616$   $\chi^2/\text{NDF}$ : 78.3/59

- sign  $31.522 \pm 197.461$   $\chi^2/\text{NDF}$ : 41.4/29

# asym\_sam6\_rms vs Slug



Right In: 563.393 $\pm$ 0.177  $\chi^2$ /NDF: 3259045.7/16

Left Out: 1001.723 $\pm$ 0.227  $\chi^2$ /NDF: 232049.8/12

Right Out: 585.438 $\pm$ 0.175  $\chi^2$ /NDF: 2818143.7/17

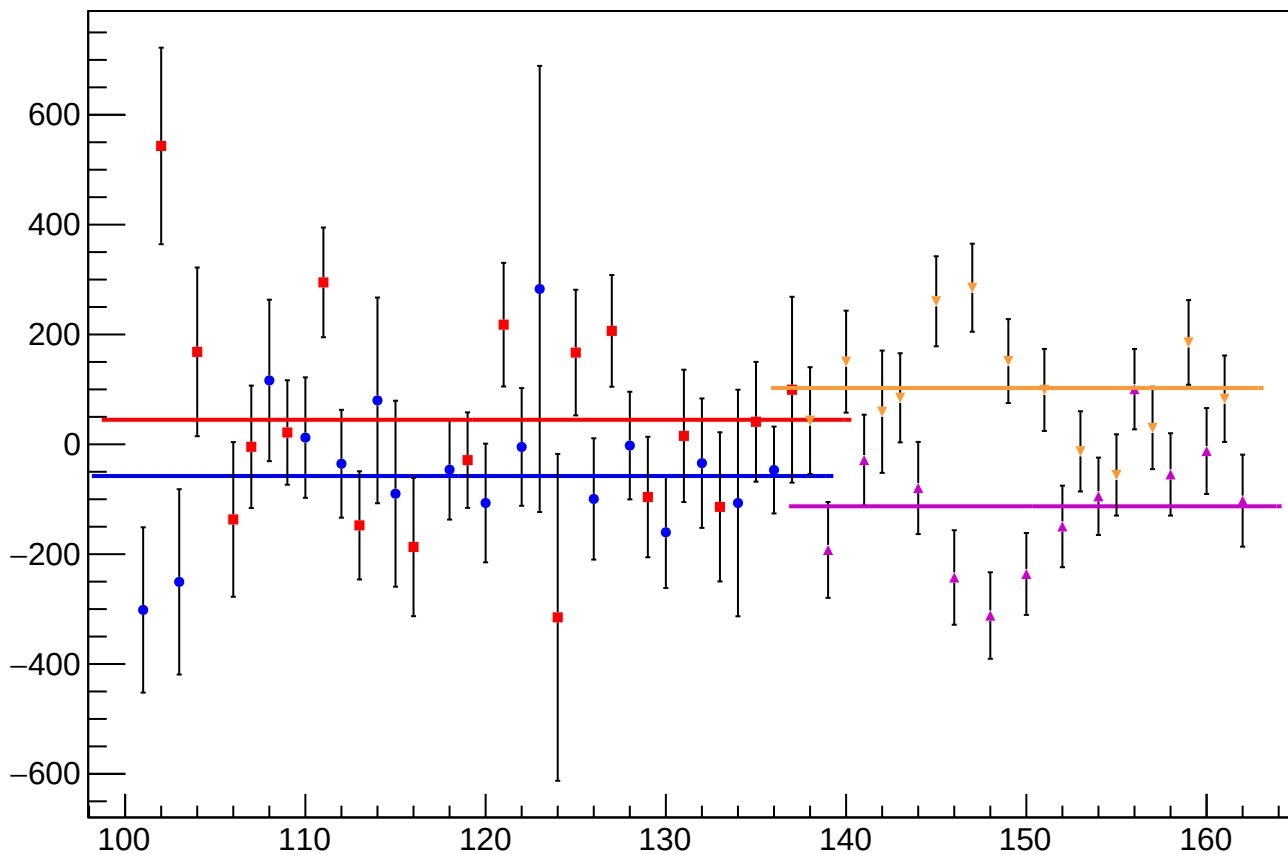
Left In: 1015.308 $\pm$ 0.231  $\chi^2$ /NDF: 304646.1/11

+ sign 729.006 $\pm$ 0.140  $\chi^2$ /NDF: 5808456.6/29

All: 735.557 $\pm$ 0.099  $\chi^2$ /NDF: 11131162.3/59

- sign 742.111 $\pm$ 0.140  $\chi^2$ /NDF: 5318300.2/29

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-57.709 \pm 28.693$   $\chi^2/\text{NDF}$ : 9.1/16

Left Out:  $102.593 \pm 22.433$   $\chi^2/\text{NDF}$ : 19.4/12

Right Out:  $44.693 \pm 27.711$   $\chi^2/\text{NDF}$ : 35.2/17

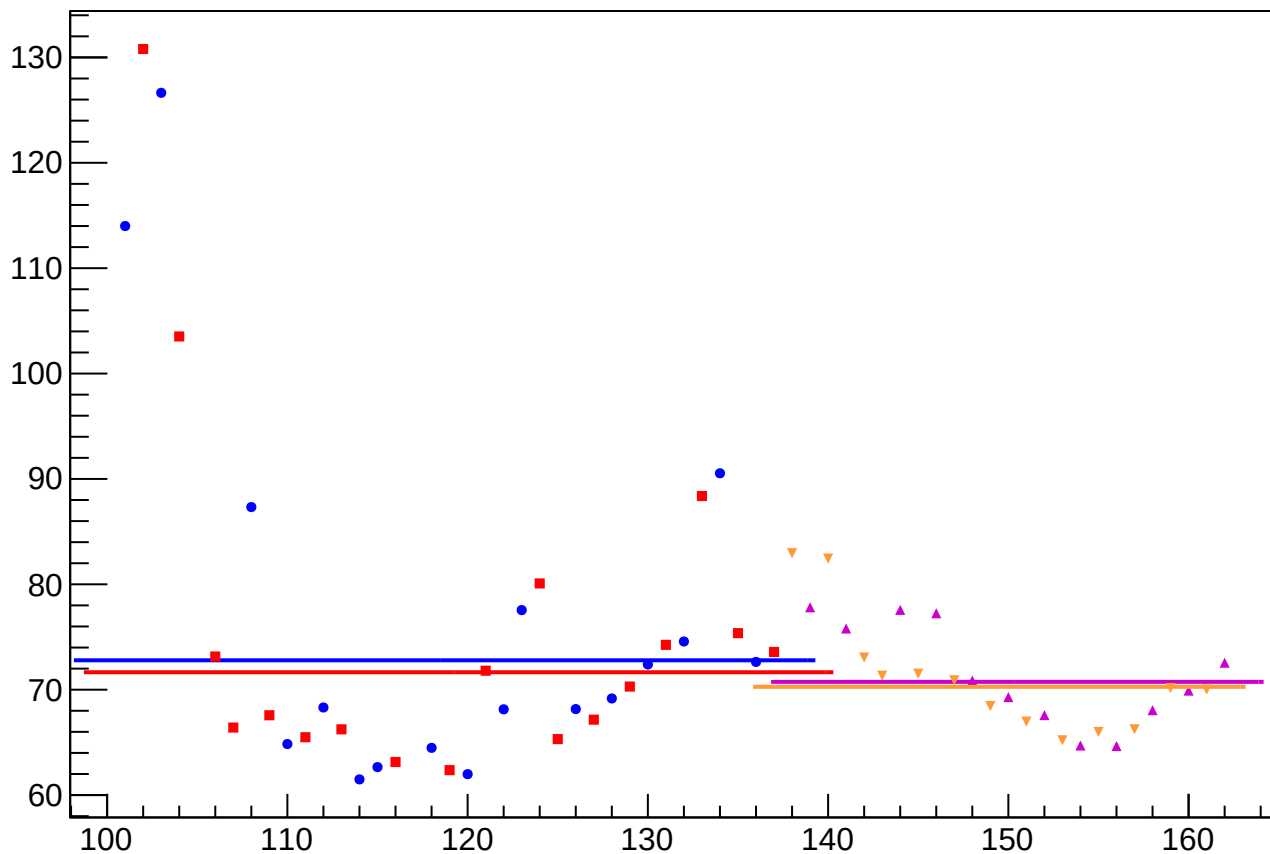
Left In:  $-112.826 \pm 22.647$   $\chi^2/\text{NDF}$ : 24.5/11

+ sign  $41.780 \pm 17.673$   $\chi^2/\text{NDF}$ : 47.9/29

All:  $-4.341 \pm 12.448$   $\chi^2/\text{NDF}$ : 140.4/59

- sign  $-49.749 \pm 17.536$   $\chi^2/\text{NDF}$ : 79.0/29

# dit\_asym\_sam7\_rms vs Slug



Right In:  $72.790 \pm 0.020$   $\chi^2/\text{NDF}$ : 464772.9/16

Left Out:  $70.275 \pm 0.016$   $\chi^2/\text{NDF}$ : 97801.1/12

Right Out:  $71.655 \pm 0.020$   $\chi^2/\text{NDF}$ : 404376.9/17

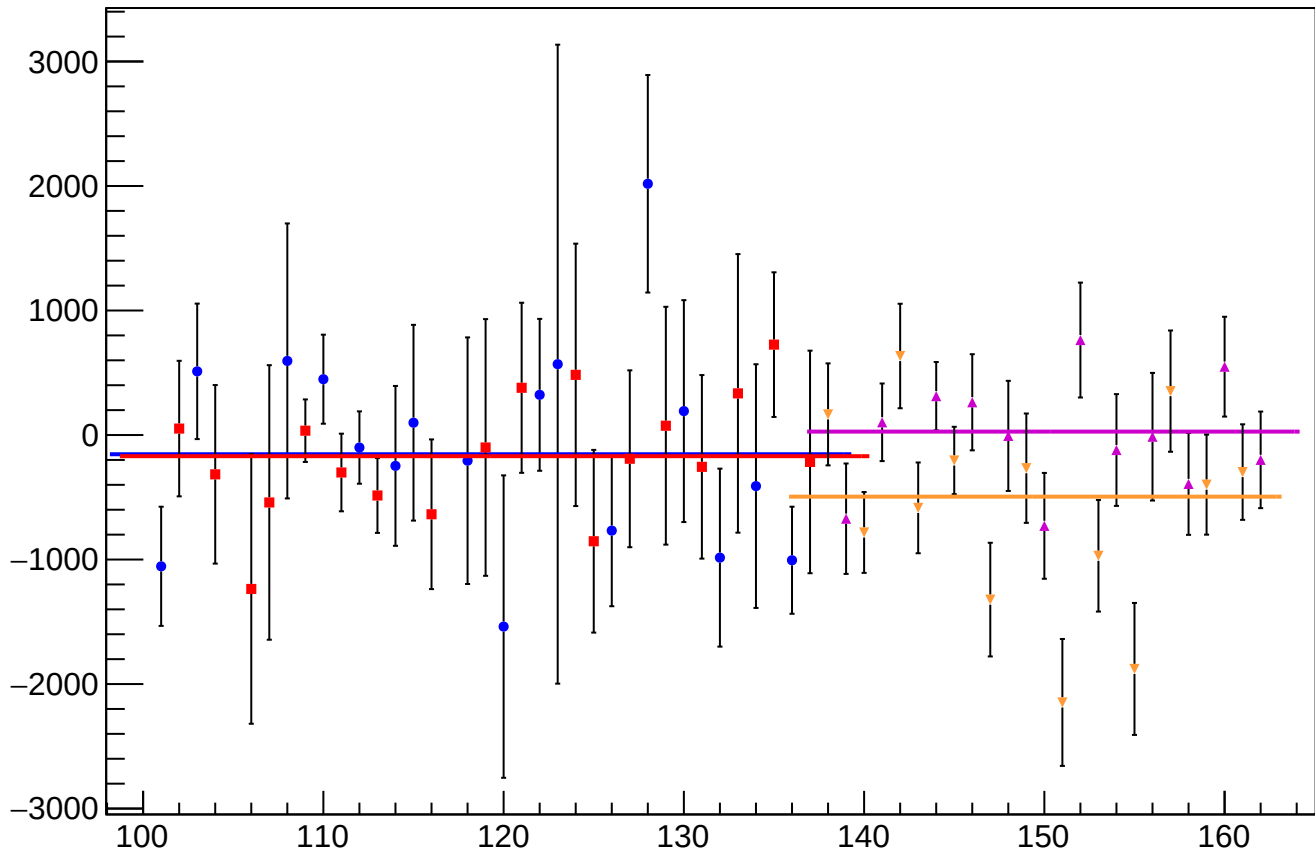
Left In:  $70.744 \pm 0.016$   $\chi^2/\text{NDF}$ : 82062.7/11

+ sign  $71.229 \pm 0.012$   $\chi^2/\text{NDF}$ : 572110.2/29

All:  $71.168 \pm 0.009$   $\chi^2/\text{NDF}$ : 1059894.0/59

- sign  $71.109 \pm 0.012$   $\chi^2/\text{NDF}$ : 487737.1/29

# asym\_sam7\_correction\_mean vs Slug



Right In:  $-154.404 \pm 140.700$   $\chi^2/\text{NDF}$ : 23.2/16

Left Out:  $-494.943 \pm 110.498$   $\chi^2/\text{NDF}$ : 37.2/12

Right Out:  $-170.028 \pm 126.220$   $\chi^2/\text{NDF}$ : 8.4/17

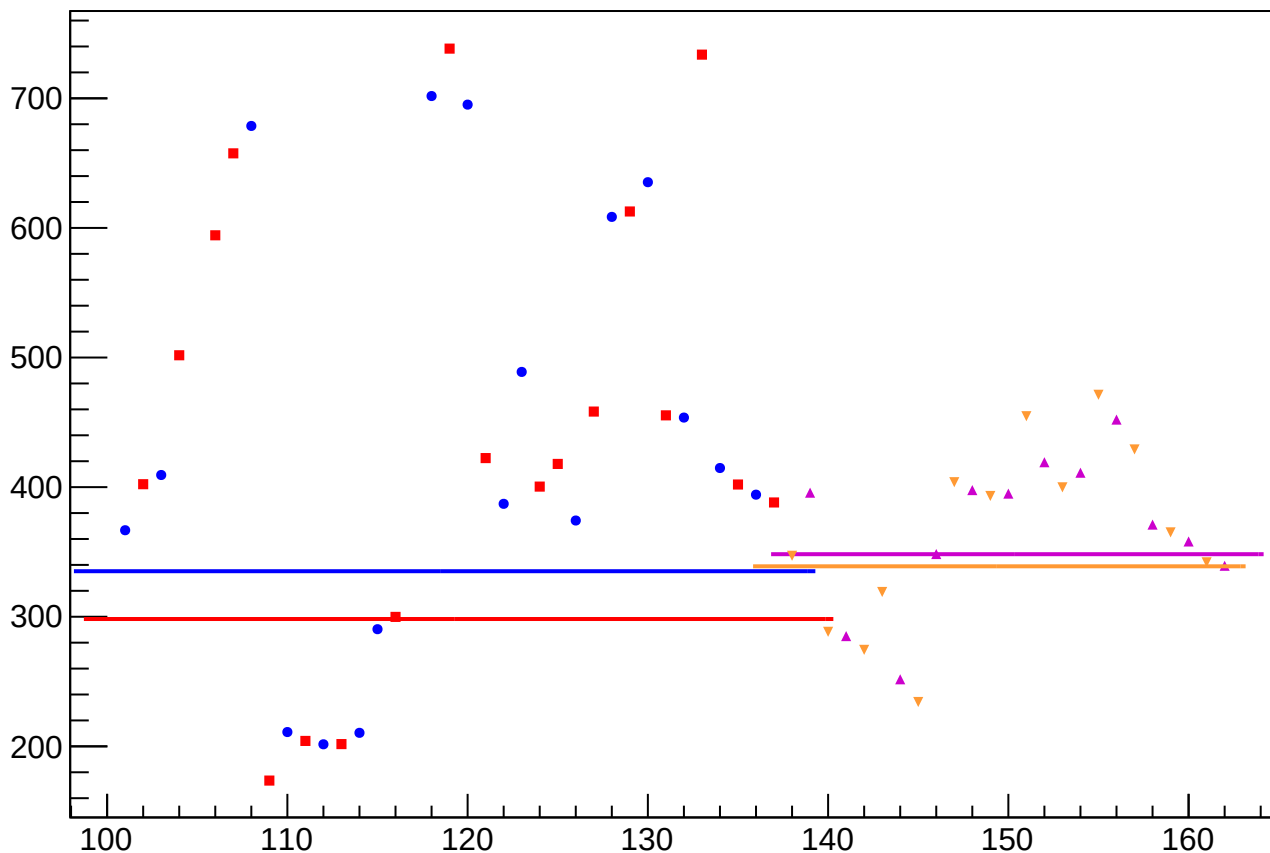
Left In:  $27.417 \pm 112.977$   $\chi^2/\text{NDF}$ : 12.9/11

+ sign  $-365.035 \pm 86.902$   $\chi^2/\text{NDF}$ : 64.0/29

All:  $-207.877 \pm 60.464$   $\chi^2/\text{NDF}$ : 93.0/59

- sign  $-60.407 \pm 84.181$   $\chi^2/\text{NDF}$ : 22.7/29

# asym\_sam7\_correction\_rms vs Slug



Right In: 335.134 $\pm$ 0.099  $\chi^2$ /NDF: 1994045.2/16

Left Out: 338.914 $\pm$ 0.078  $\chi^2$ /NDF: 815024.6/12

Right Out: 298.253 $\pm$ 0.089  $\chi^2$ /NDF: 2776555.9/17

Left In: 348.263 $\pm$ 0.080  $\chi^2$ /NDF: 579012.6/11

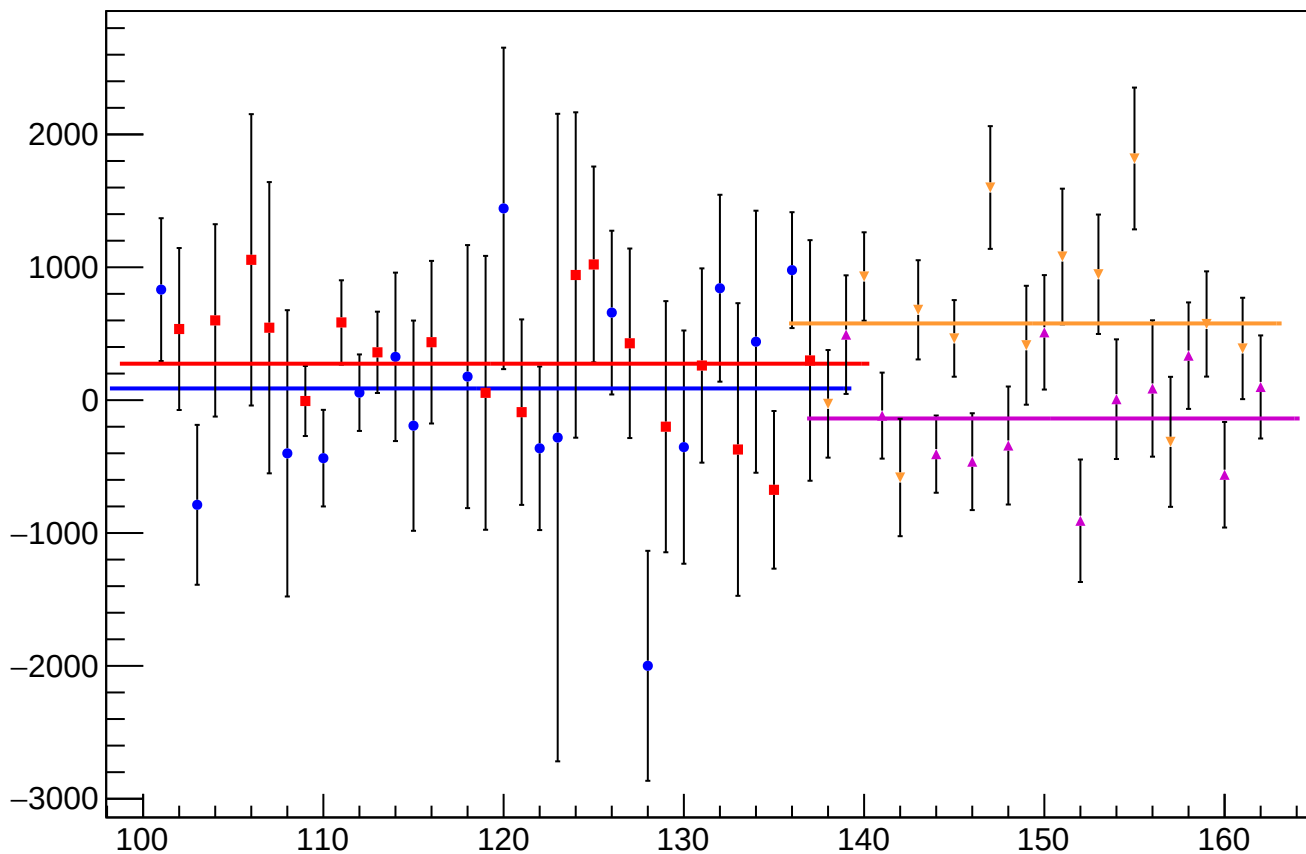
+ sign 337.472 $\pm$ 0.061  $\chi^2$ /NDF: 2809962.3/29

All: 331.563 $\pm$ 0.043  $\chi^2$ /NDF: 6357765.2/59

- sign 326.019 $\pm$ 0.060  $\chi^2$ /NDF: 3529880.9/29



# asym\_sam7\_mean vs Slug



Right In:  $88.115 \pm 143.018$   $\chi^2/\text{NDF}$ : 20.8/16

Left Out:  $577.357 \pm 112.613$   $\chi^2/\text{NDF}$ : 26.1/12

Right Out:  $274.340 \pm 129.866$   $\chi^2/\text{NDF}$ : 8.0/17

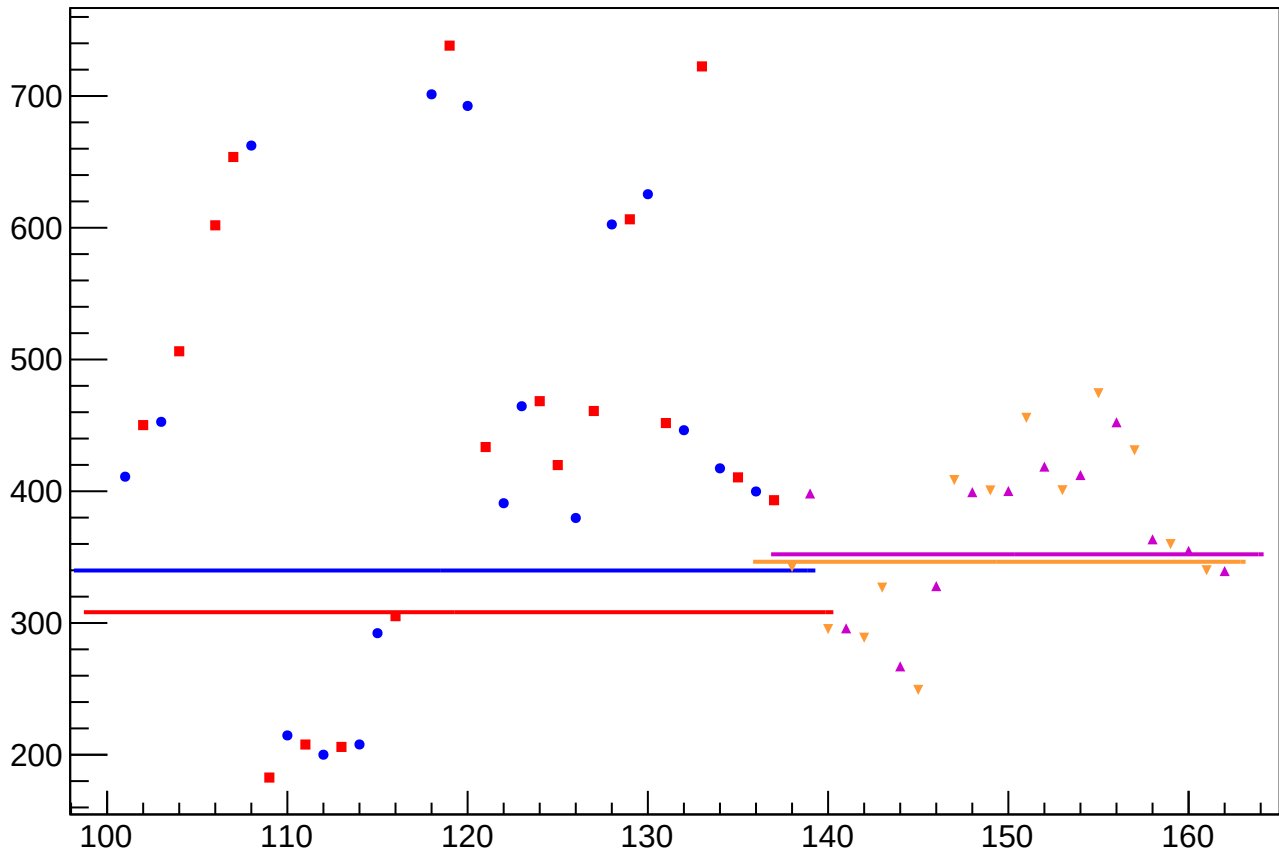
Left In:  $-137.975 \pm 113.936$   $\chi^2/\text{NDF}$ : 12.1/11

+ sign  $390.115 \pm 88.477$   $\chi^2/\text{NDF}$ : 54.2/29

All:  $210.068 \pm 61.537$   $\chi^2/\text{NDF}$ : 88.0/59

- sign  $41.356 \pm 85.646$   $\chi^2/\text{NDF}$ : 25.9/29

# asym\_sam7\_rms vs Slug



Right In: 339.850+/-0.101  $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out: 346.488+/-0.080  $\chi^2/\text{NDF}$ : 678093.3/12

Right Out: 308.199+/-0.092  $\chi^2/\text{NDF}$ : 2698828.8/17

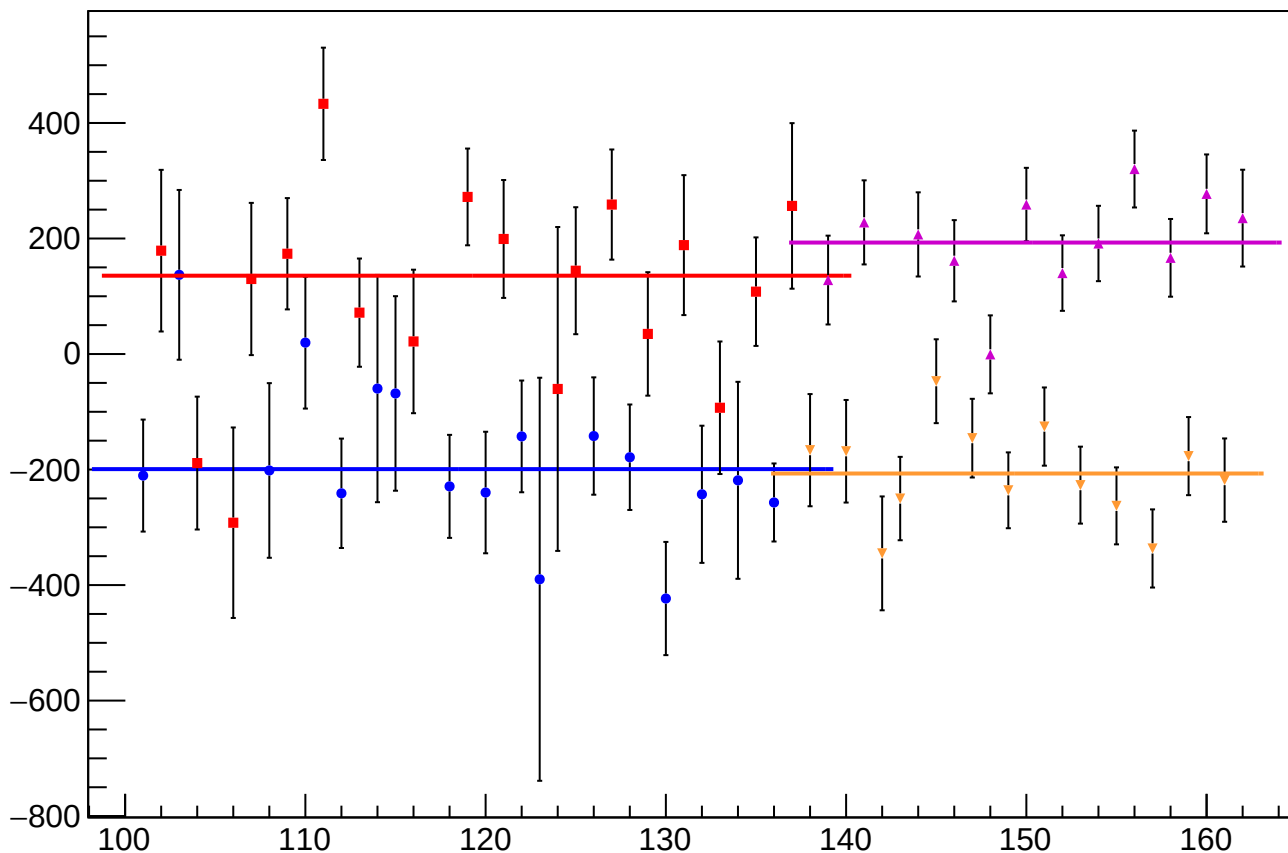
Left In: 352.135+/-0.081  $\chi^2/\text{NDF}$ : 466812.0/11

+ sign 343.947+/-0.063  $\chi^2/\text{NDF}$ : 2724275.5/29

All: 338.309+/-0.044  $\chi^2/\text{NDF}$ : 6035002.3/59

- sign 333.026+/-0.061  $\chi^2/\text{NDF}$ : 3294993.3/29

# dit\_asym\_sam8\_mean vs Slug



Right In: -199.252 $\pm$ 26.515  $\chi^2$ /NDF: 17.6/16

Left Out: -206.850 $\pm$ 20.149  $\chi^2$ /NDF:14.7/12

Right Out: 135.623 $\pm$ 26.252  $\chi^2$ /NDF: 36.7/17

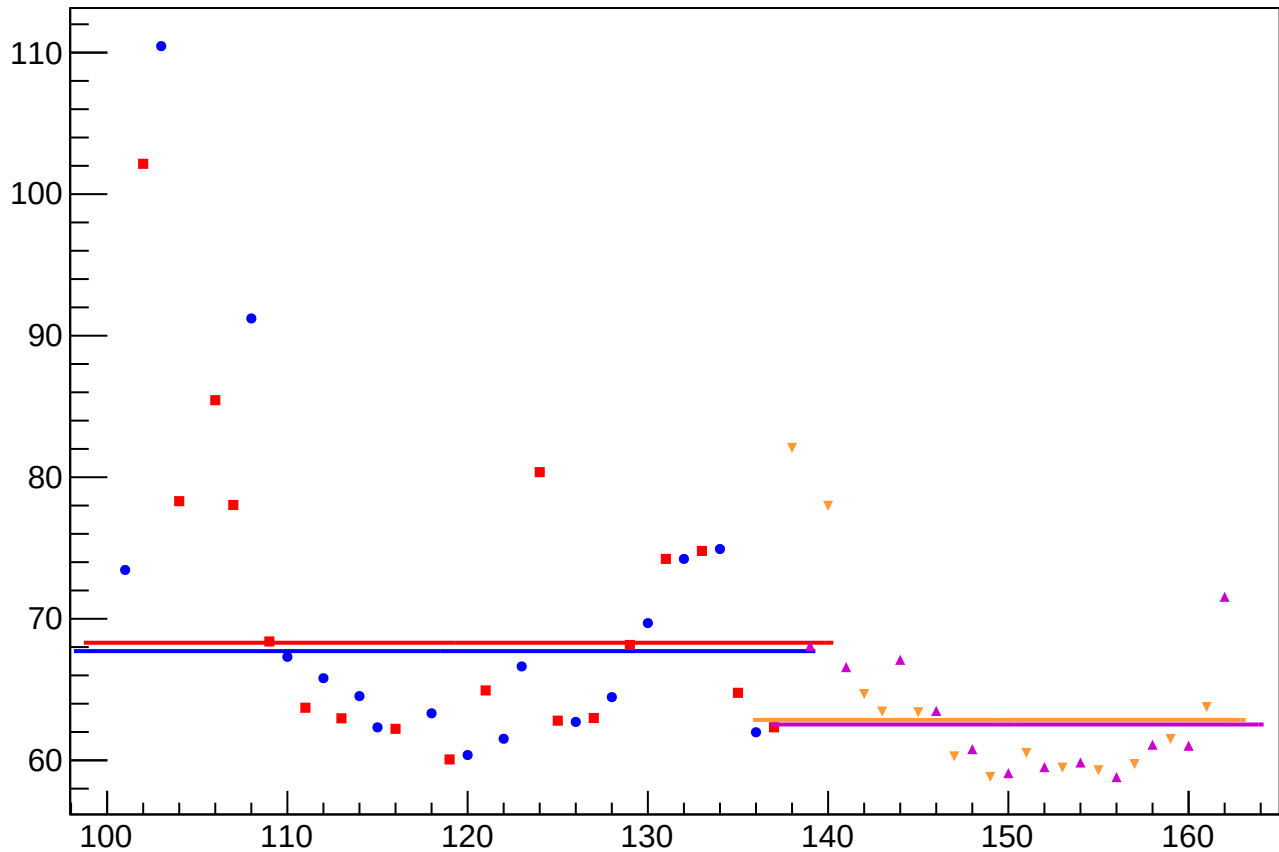
Left In: 192.980 $\pm$ 20.048  $\chi^2$ /NDF:16.7/11

+ sign -204.069 $\pm$ 16.043  $\chi^2$ /NDF: 32.3/29

All: -14.823 $\pm$ 11.305  $\chi^2$ /NDF: 365.2/59

- sign 171.852 $\pm$ 15.933  $\chi^2$ /NDF: 56.4/29

# dit\_asym\_sam8\_rms vs Slug



Right In: 67.715 $\pm$ 0.019  $\chi^2$ /NDF: 282892.5/16

Left Out: 62.854 $\pm$ 0.014  $\chi^2$ /NDF: 166231.6/12

Right Out: 68.308 $\pm$ 0.019  $\chi^2$ /NDF: 234314.0/17

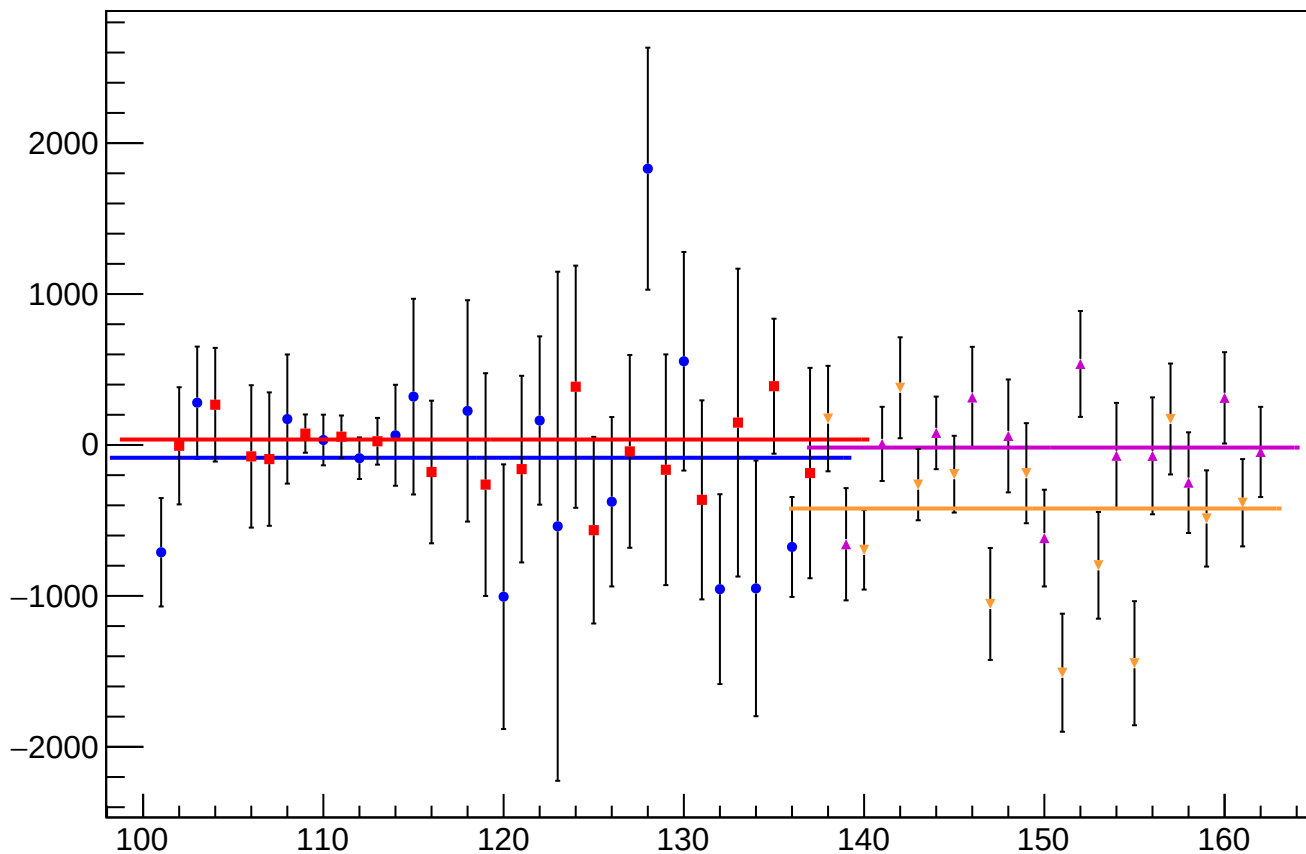
Left In: 62.531 $\pm$ 0.014  $\chi^2$ /NDF: 70972.0/11

+ sign 64.634 $\pm$ 0.011  $\chi^2$ /NDF: 491737.9/29

All: 64.647 $\pm$ 0.008  $\chi^2$ /NDF: 858208.6/59

- sign 64.659 $\pm$ 0.011  $\chi^2$ /NDF: 366468.1/29

# asym\_sam8\_correction\_mean vs Slug



Right In:  $-84.759 \pm 82.667$   $\chi^2/\text{NDF}$ : 19.9/16

Left Out:  $-421.088 \pm 87.393$   $\chi^2/\text{NDF}$ : 32.1/12

Right Out:  $36.132 \pm 69.750$   $\chi^2/\text{NDF}$ : 3.4/17

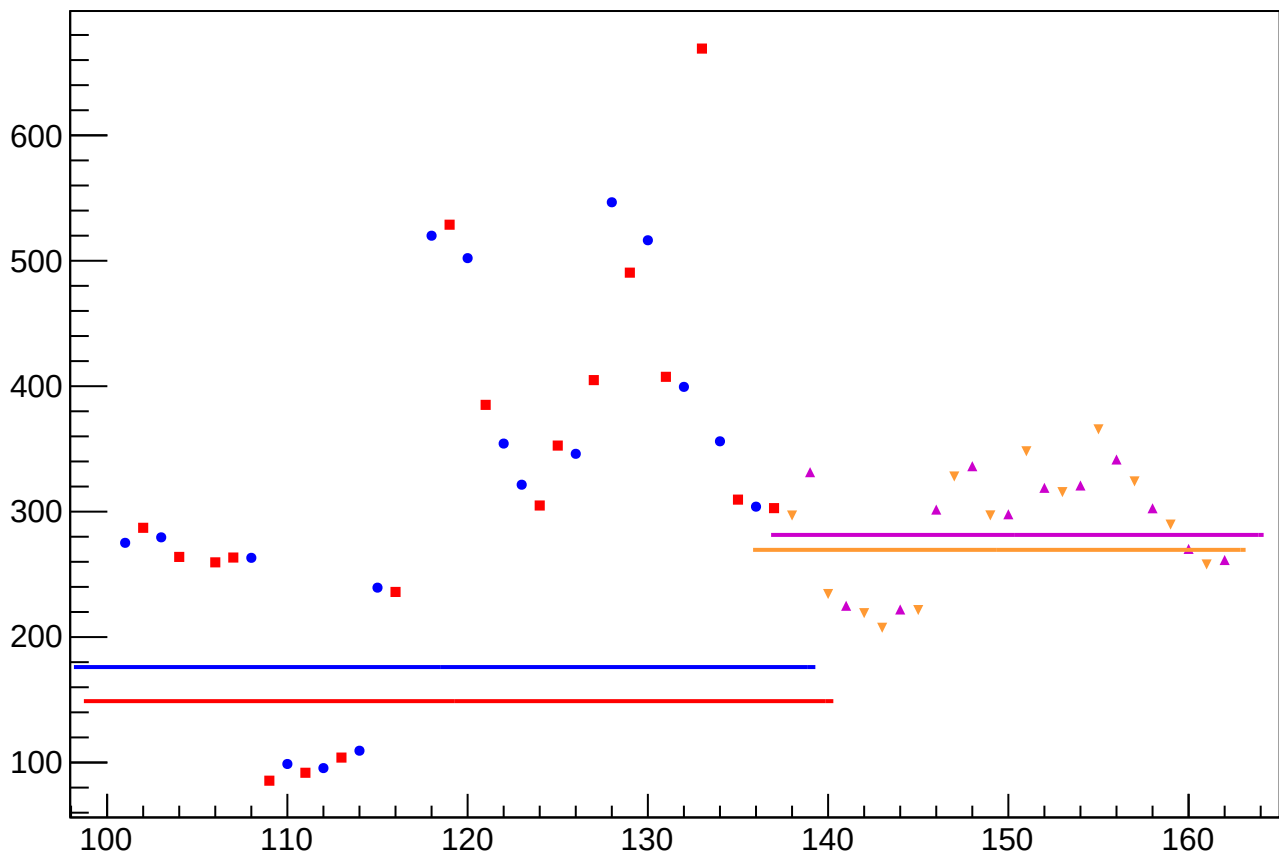
Left In:  $-17.230 \pm 90.927$   $\chi^2/\text{NDF}$ : 11.9/11

+ sign  $-243.586 \pm 60.056$   $\chi^2/\text{NDF}$ : 59.8/29

All:  $-103.011 \pm 40.697$   $\chi^2/\text{NDF}$ : 85.5/59

- sign  $16.364 \pm 55.342$   $\chi^2/\text{NDF}$ : 15.5/29

# asym\_sam8\_correction\_rms vs Slug



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 269.532+/-0.062  $\chi^2/\text{NDF}$ : 645666.9/12

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

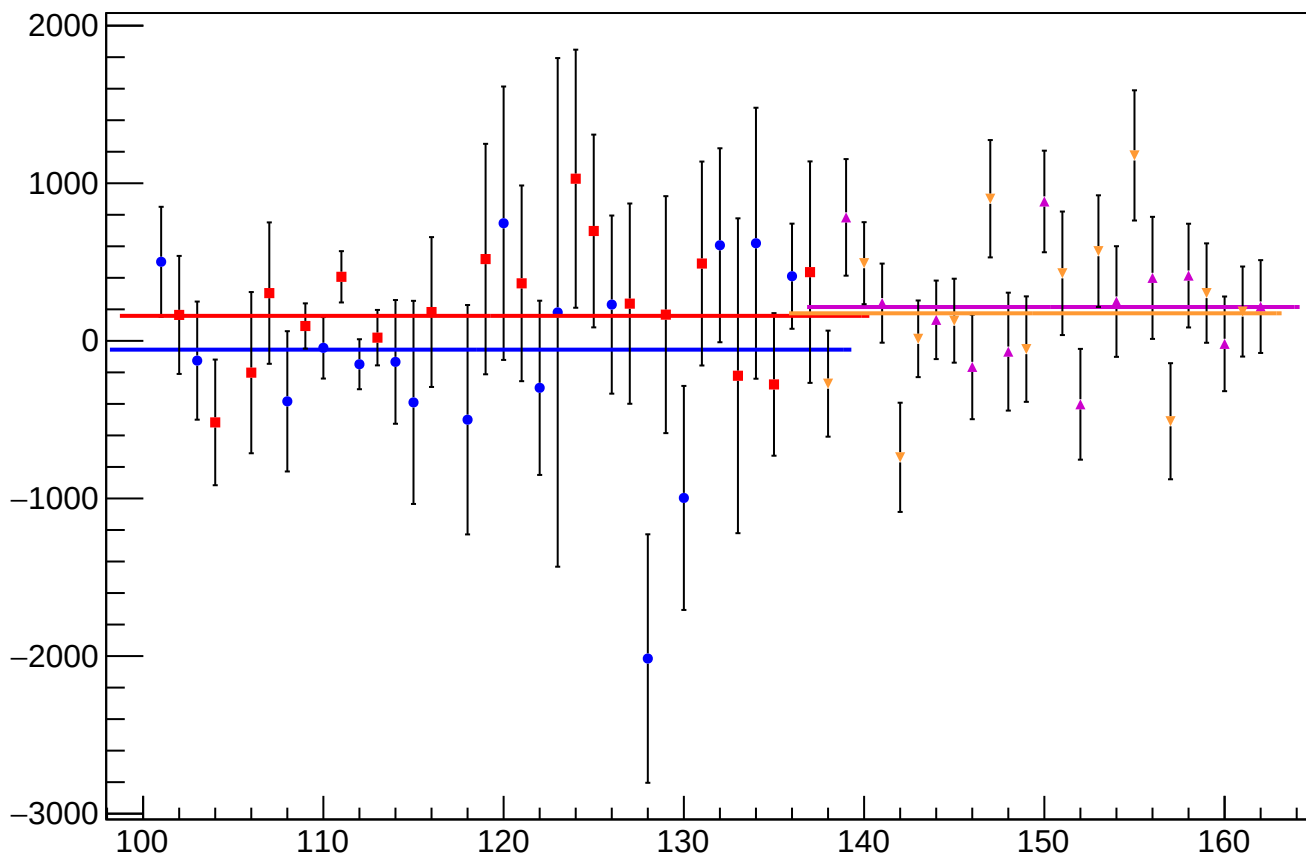
Left In: 281.447+/-0.064  $\chi^2/\text{NDF}$ : 435803.8/11

+ sign 220.220+/-0.042  $\chi^2/\text{NDF}$ : 6075879.7/29

All: 208.216+/-0.029  $\chi^2/\text{NDF}$ : 14104637.3/59

- sign 198.022+/-0.039  $\chi^2/\text{NDF}$ : 7880997.0/29

# asym\_sam8\_mean vs Slug



Right In:  $-55.724 \pm 90.572$   $\chi^2/\text{NDF}$ : 17.1/16

Left Out:  $174.903 \pm 88.011$   $\chi^2/\text{NDF}$ : 26.1/12

Right Out:  $158.676 \pm 77.072$   $\chi^2/\text{NDF}$ : 10.4/17

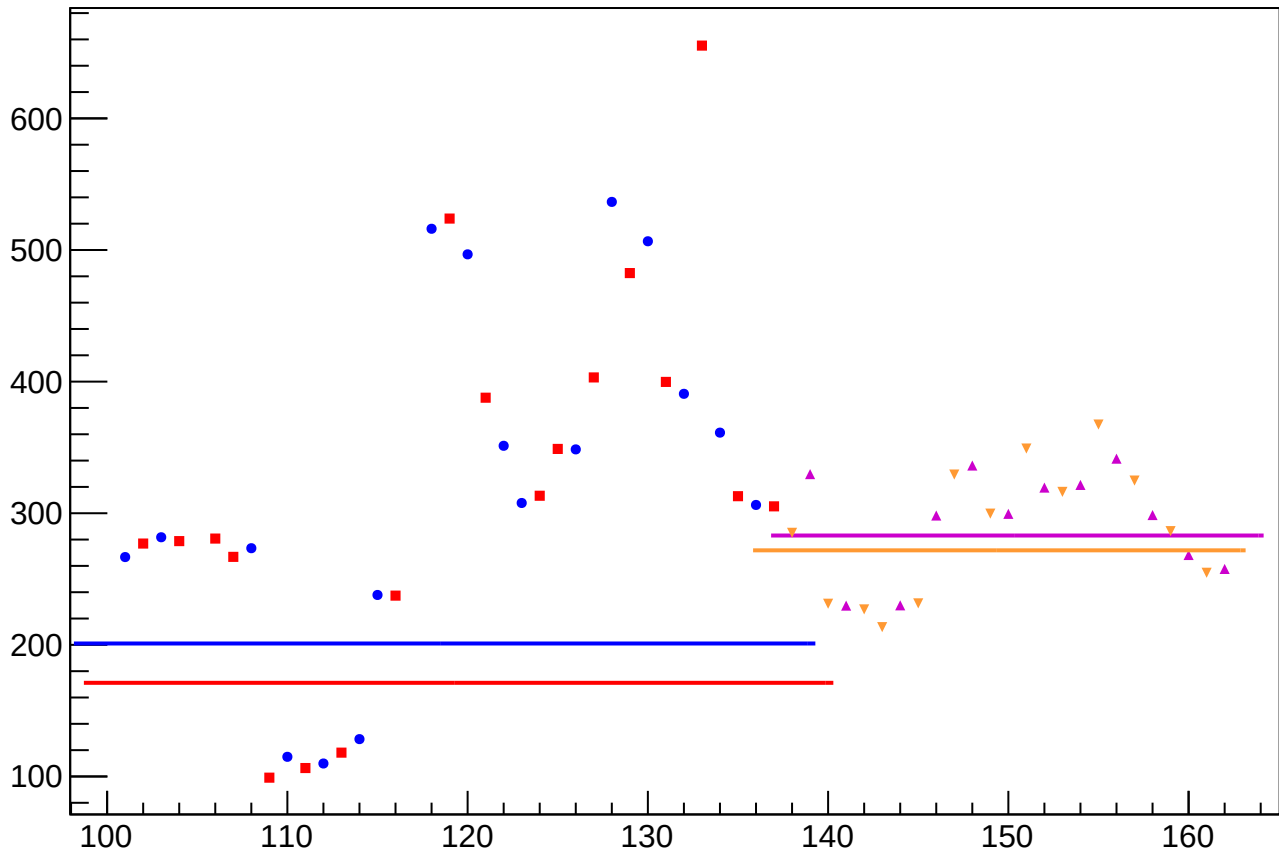
Left In:  $214.893 \pm 91.333$   $\chi^2/\text{NDF}$ : 13.0/11

+ sign  $62.897 \pm 63.119$   $\chi^2/\text{NDF}$ : 46.6/29

All:  $126.590 \pm 43.064$   $\chi^2/\text{NDF}$ : 72.1/59

- sign  $182.058 \pm 58.902$   $\chi^2/\text{NDF}$ : 23.6/29

# asym\_sam8\_rms vs Slug



Right In: 201.036+/-0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 271.813+/-0.062  $\chi^2/\text{NDF}$ : 577212.7/12

Right Out: 171.159+/-0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

Left In: 283.075+/-0.065  $\chi^2/\text{NDF}$ : 377552.6/11

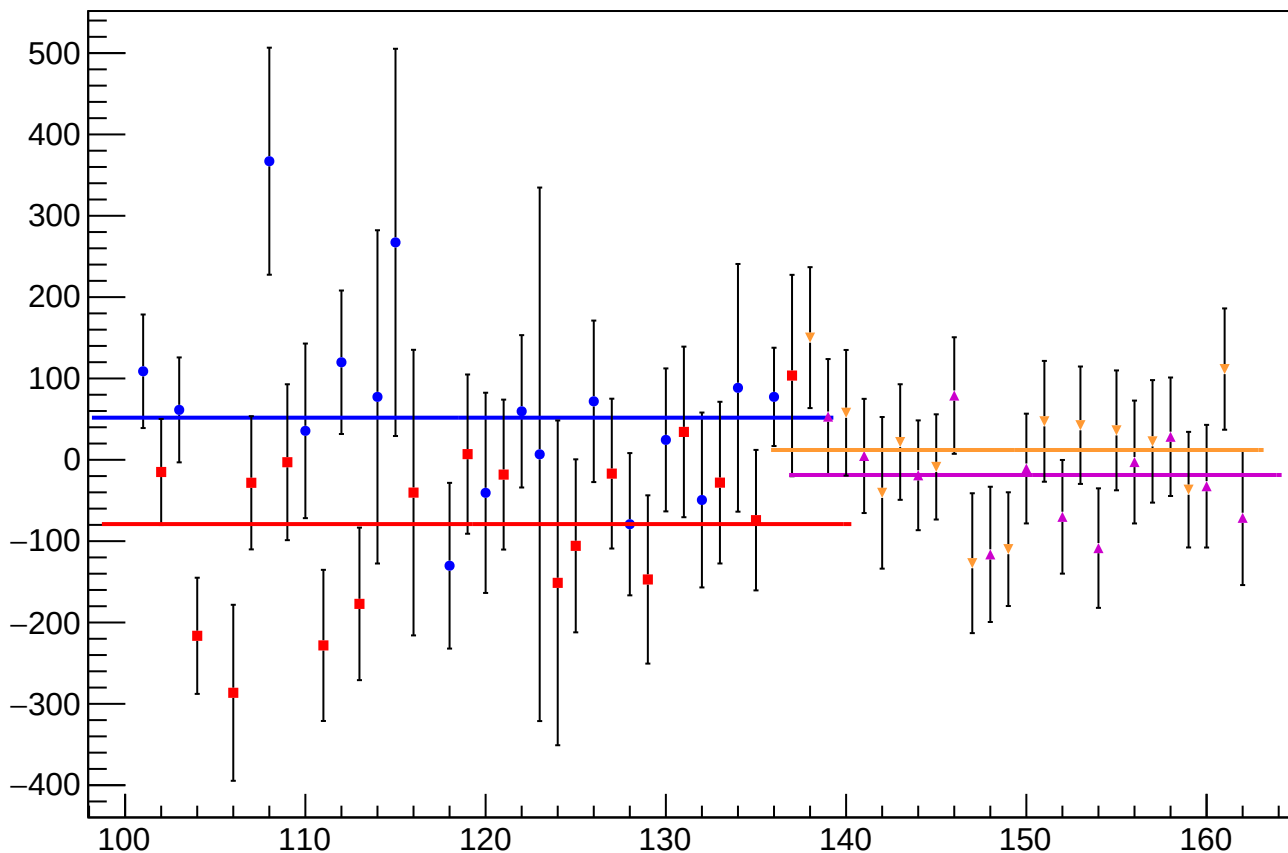
+ sign 237.440+/-0.045  $\chi^2/\text{NDF}$ : 4638404.4/29

All: 226.892+/-0.030  $\chi^2/\text{NDF}$ : 10940042.8/59

- sign 217.707+/-0.042  $\chi^2/\text{NDF}$ : 6197160.2/29



# dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 51.799 $\pm$ 23.538  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: -79.008 $\pm$ 22.499  $\chi^2/\text{NDF}$ : 19.0/17

Right Out: -18.653 $\pm$ 21.047  $\chi^2/\text{NDF}$ : 7.3/11

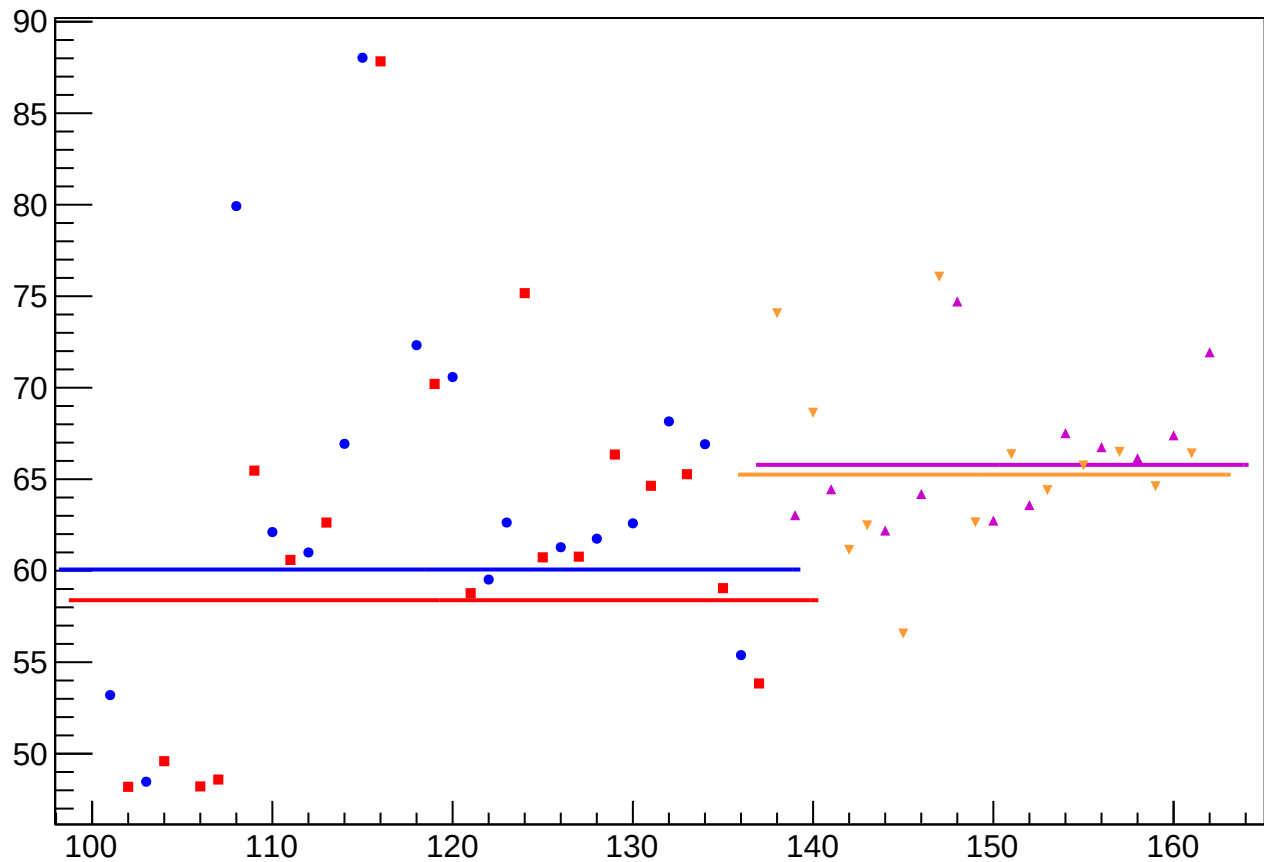
Left In: -9.214 $\pm$ 10.948  $\chi^2/\text{NDF}$ : 70.2/59

+ sign 29.519 $\pm$ 15.599  $\chi^2/\text{NDF}$ : 27.9/29

- sign -46.820 $\pm$ 15.370  $\chi^2/\text{NDF}$ : 30.1/29

All: -9.214 $\pm$ 10.948  $\chi^2/\text{NDF}$ : 70.2/59

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 60.065 $\pm$ 0.017  $\chi^2$ /NDF: 229098.7/16

Left Out: 65.251 $\pm$ 0.015  $\chi^2$ /NDF: 104003.6/12

Right Out: 58.387 $\pm$ 0.016  $\chi^2$ /NDF: 275017.2/17

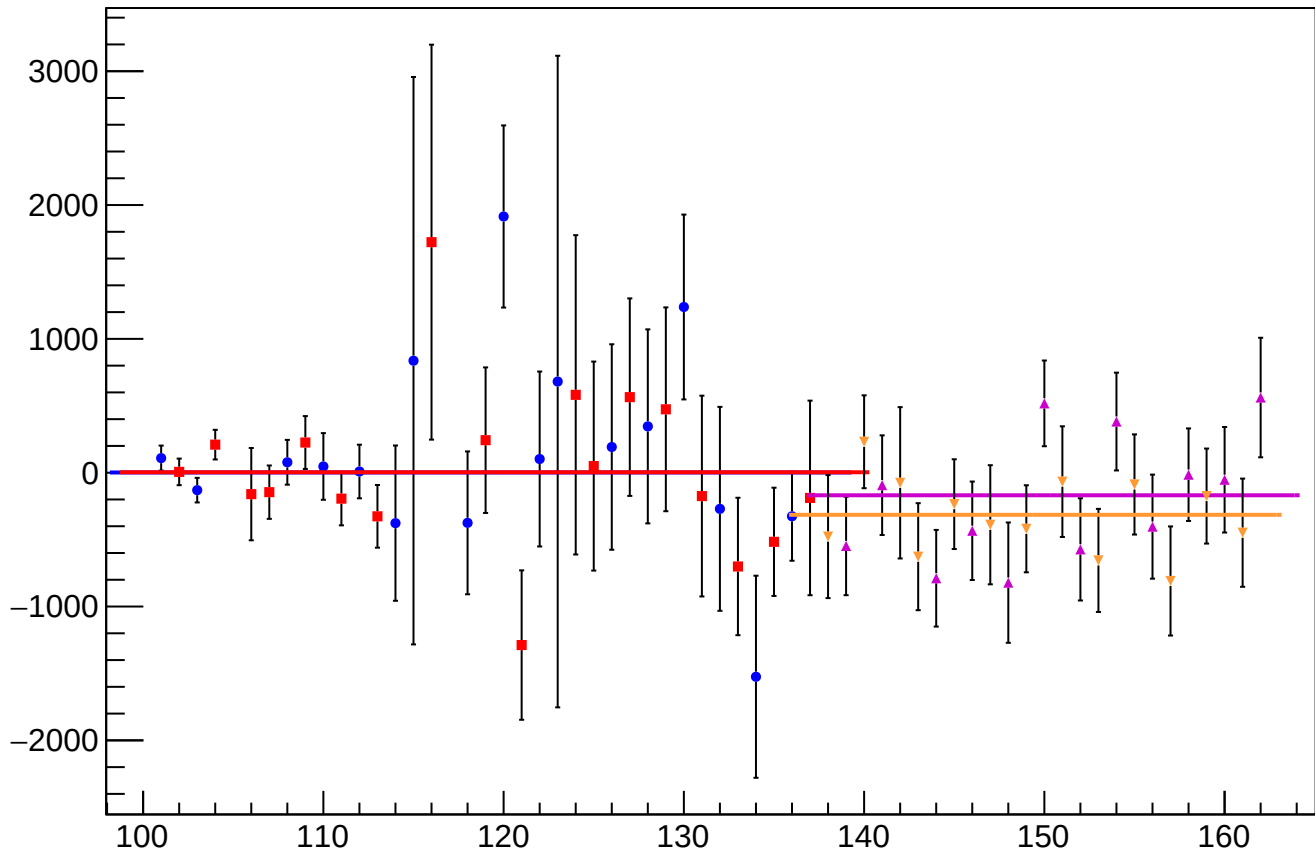
Left In: 65.785 $\pm$ 0.015  $\chi^2$ /NDF: 52989.6/11

+ sign 62.974 $\pm$ 0.011  $\chi^2$ /NDF: 387544.9/29

All: 62.648 $\pm$ 0.008  $\chi^2$ /NDF: 832580.4/59

- sign 62.332 $\pm$ 0.011  $\chi^2$ /NDF: 443319.8/29

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In:  $1.581 \pm 54.284$   $\chi^2/\text{NDF}$ : 21.4/16

Left Out:  $-314.758 \pm 108.066$   $\chi^2/\text{NDF}$ : 6.8/12

Right Out:  $3.242 \pm 56.611$   $\chi^2/\text{NDF}$ : 20.2/17

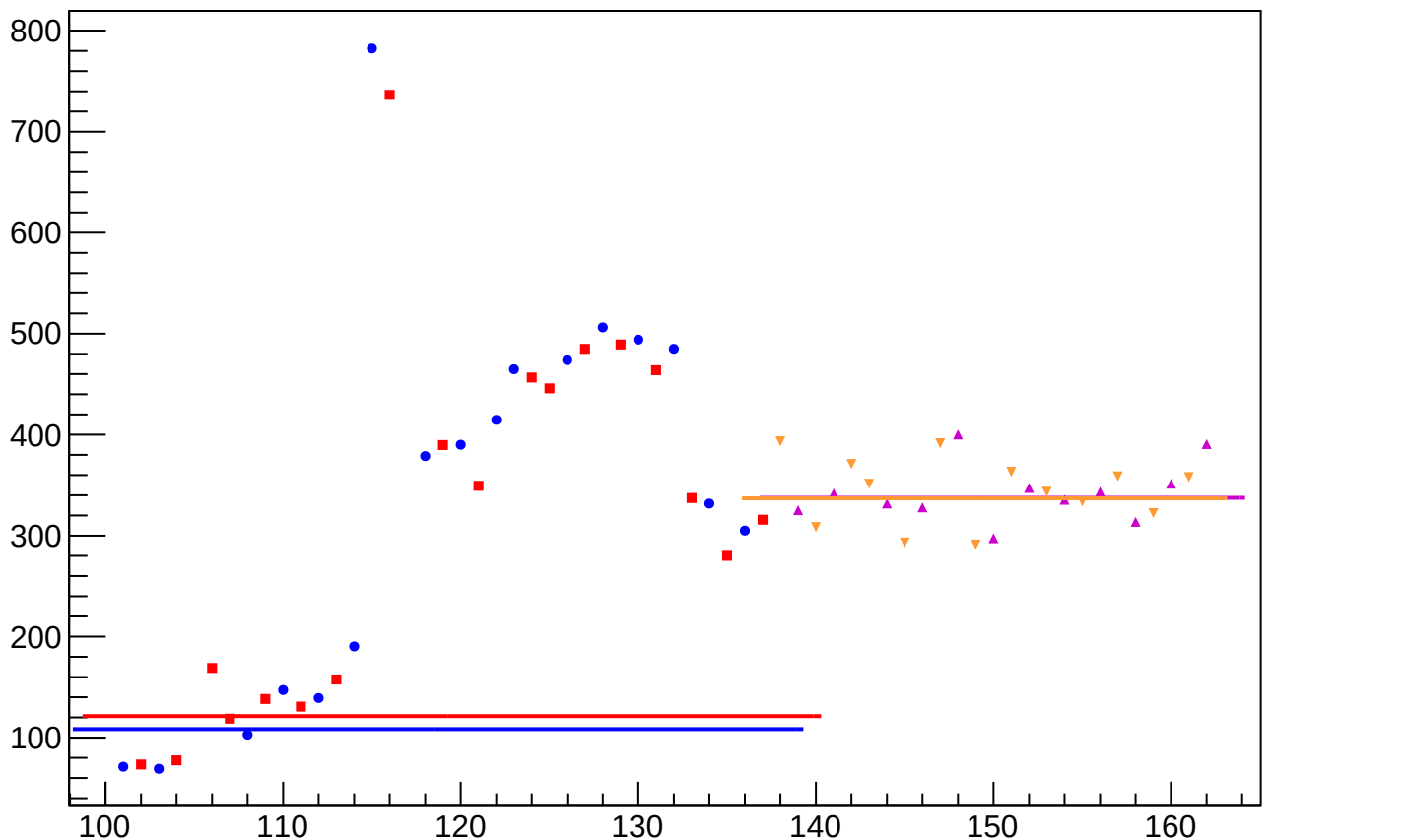
Left In:  $-168.698 \pm 108.383$   $\chi^2/\text{NDF}$ : 18.0/11

+ sign  $-62.157 \pm 48.508$   $\chi^2/\text{NDF}$ : 35.1/29

All:  $-48.368 \pm 34.876$   $\chi^2/\text{NDF}$ : 75.4/59

- sign  $-33.613 \pm 50.179$   $\chi^2/\text{NDF}$ : 40.2/29

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 108.445 $\pm$ 0.038  $\chi^2$ /NDF: 5404107.9/16

Left Out: 336.978 $\pm$ 0.076  $\chi^2$ /NDF: 180434.4/12

Right Out: 121.303 $\pm$ 0.040  $\chi^2$ /NDF: 4731568.2/17

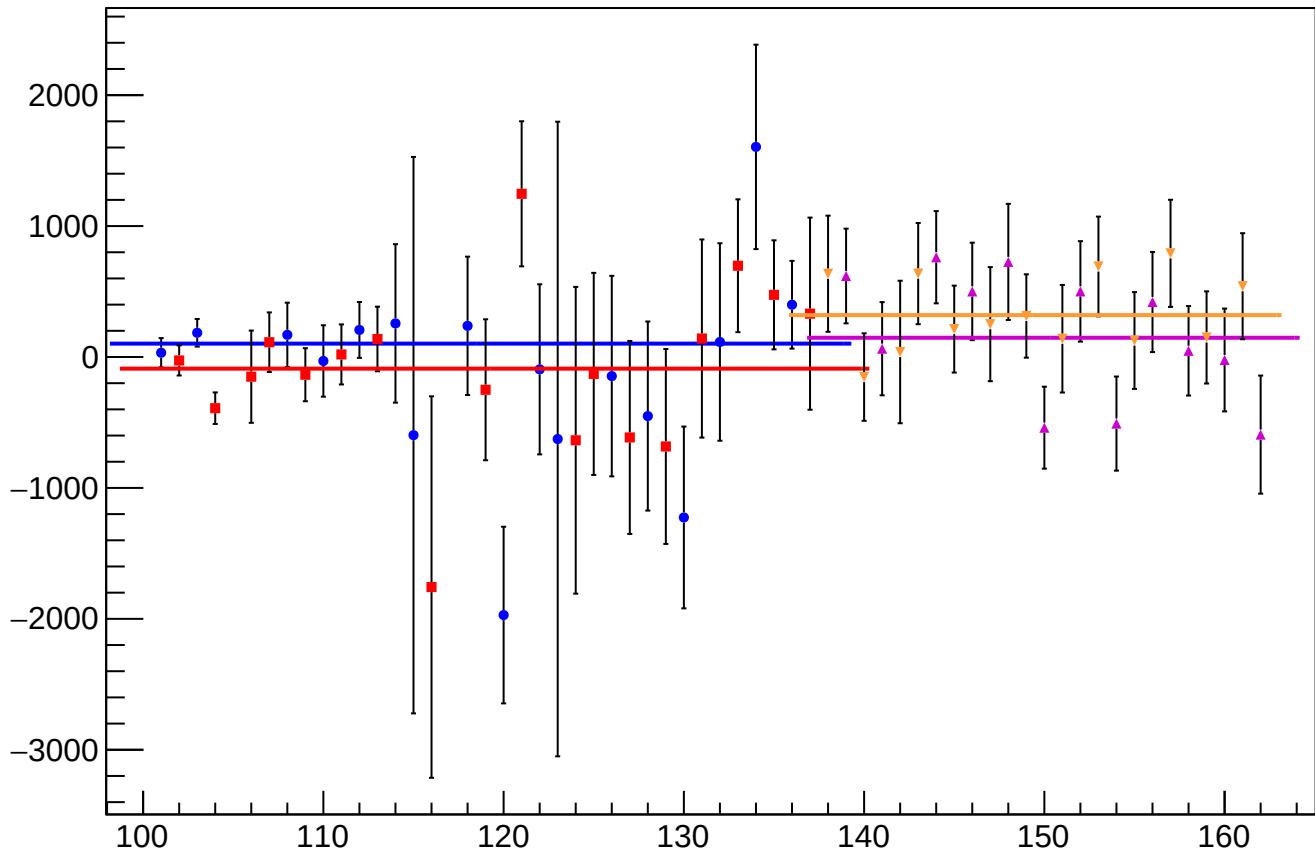
Left In: 337.498 $\pm$ 0.077  $\chi^2$ /NDF: 116750.7/11

+ sign 154.491 $\pm$ 0.034  $\chi^2$ /NDF: 12726692.4/29

All: 160.845 $\pm$ 0.025  $\chi^2$ /NDF: 23898139.6/59

- sign 167.644 $\pm$ 0.035  $\chi^2$ /NDF: 11100420.4/29

# asym\_sam\_15\_avg\_mean vs Slug



Right In:  $102.221 \pm 63.127$   $\chi^2/\text{NDF}$ : 20.3/16

Left Out:  $319.977 \pm 106.247$   $\chi^2/\text{NDF}$ : 6.9/12

Right Out:  $-88.841 \pm 62.230$   $\chi^2/\text{NDF}$ : 21.7/17

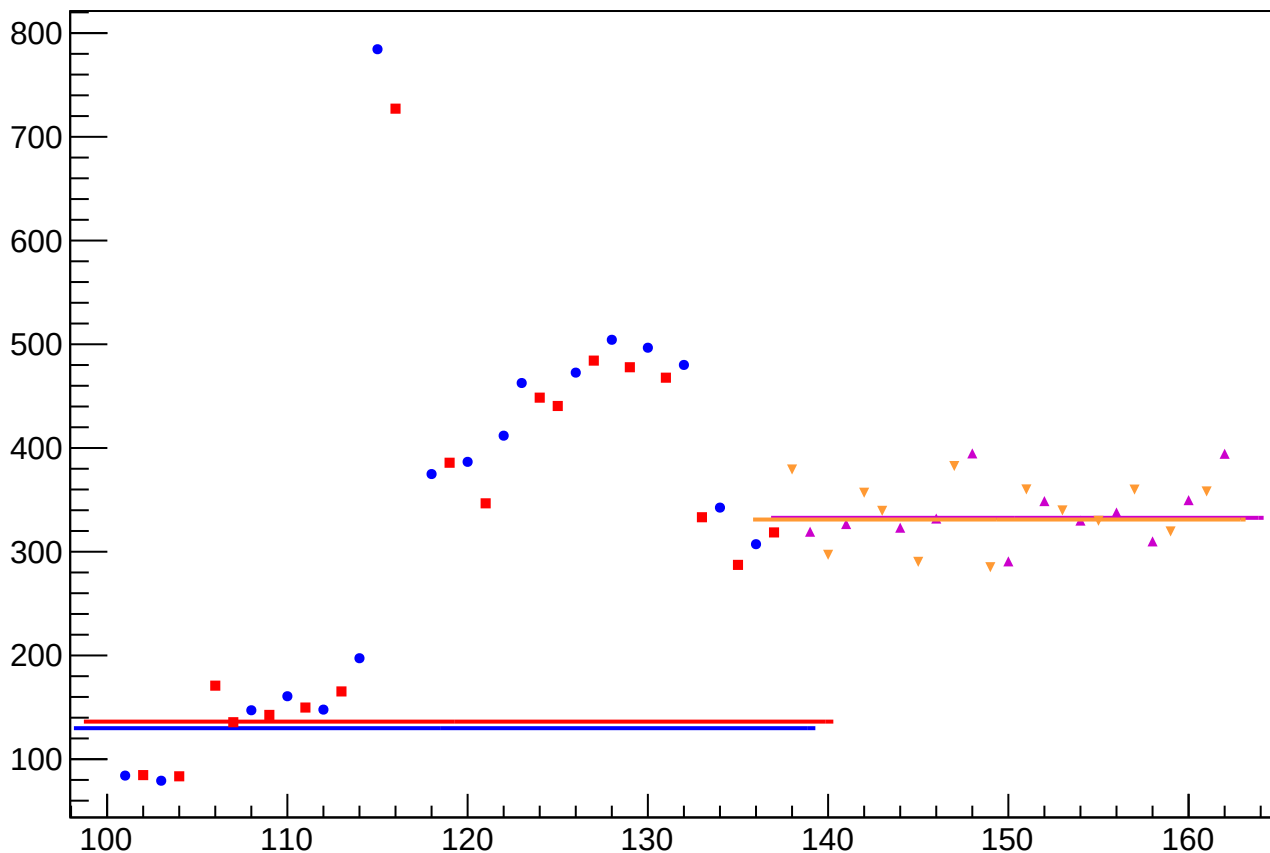
Left In:  $146.986 \pm 106.929$   $\chi^2/\text{NDF}$ : 19.9/11

+ sign  $159.036 \pm 54.271$   $\chi^2/\text{NDF}$ : 30.2/29

All:  $64.085 \pm 38.202$   $\chi^2/\text{NDF}$ : 81.6/59

- sign  $-29.175 \pm 53.785$   $\chi^2/\text{NDF}$ : 45.3/29

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 331.046+/-0.075  $\chi^2/\text{NDF}$ :181796.6/12

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

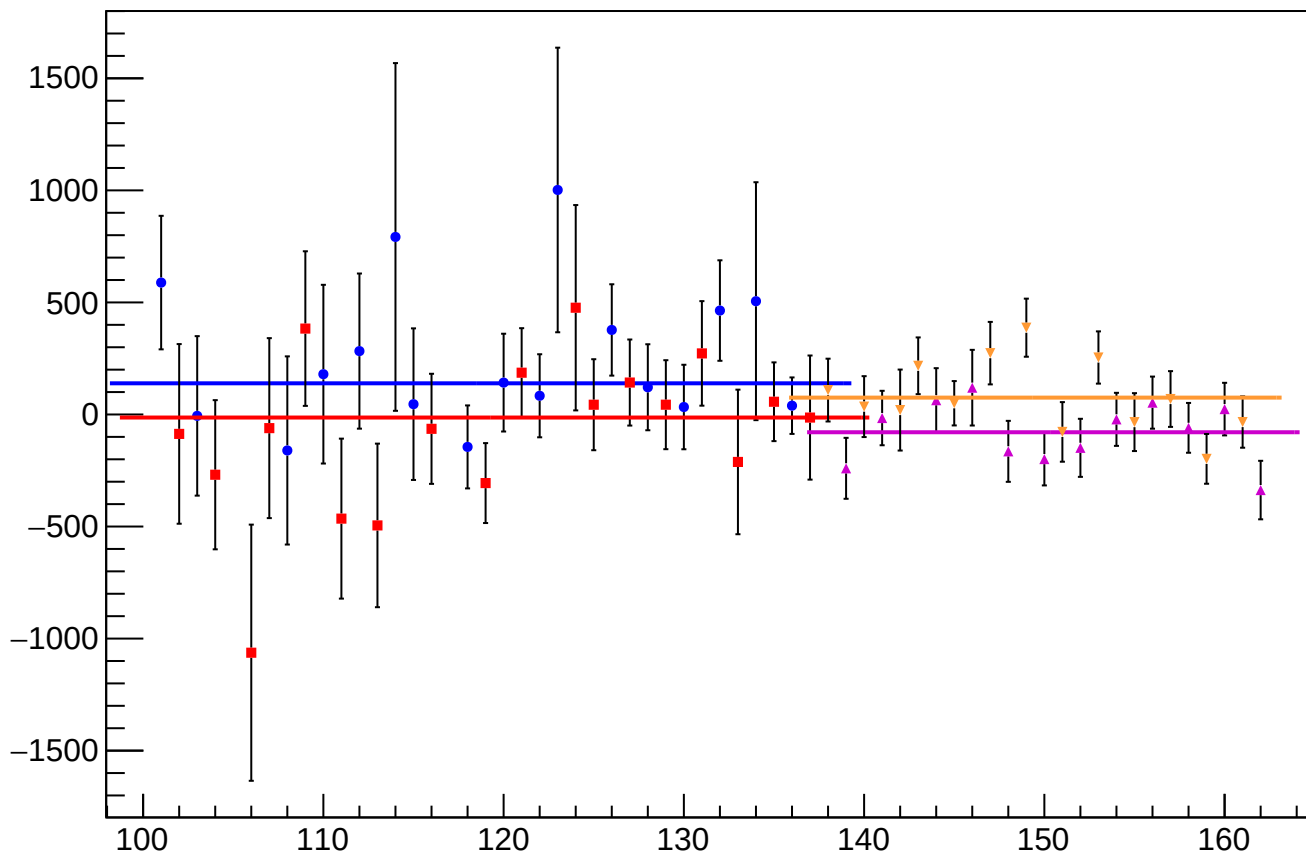
Left In: 332.688+/-0.076  $\chi^2/\text{NDF}$ :134062.0/11

+ sign 182.370+/-0.038  $\chi^2/\text{NDF}$ : 10310183.4/29

All: 184.167+/-0.027  $\chi^2/\text{NDF}$ : 19774751.0/59

- sign 185.932+/-0.038  $\chi^2/\text{NDF}$ : 9460221.6/29

# dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 139.093 $\pm$ 57.982  $\chi^2$ /NDF: 13.1/16

Left Out: 75.237 $\pm$ 34.850  $\chi^2$ /NDF:20.8/12

Right Out: -13.637 $\pm$ 60.127  $\chi^2$ /NDF: 16.4/17

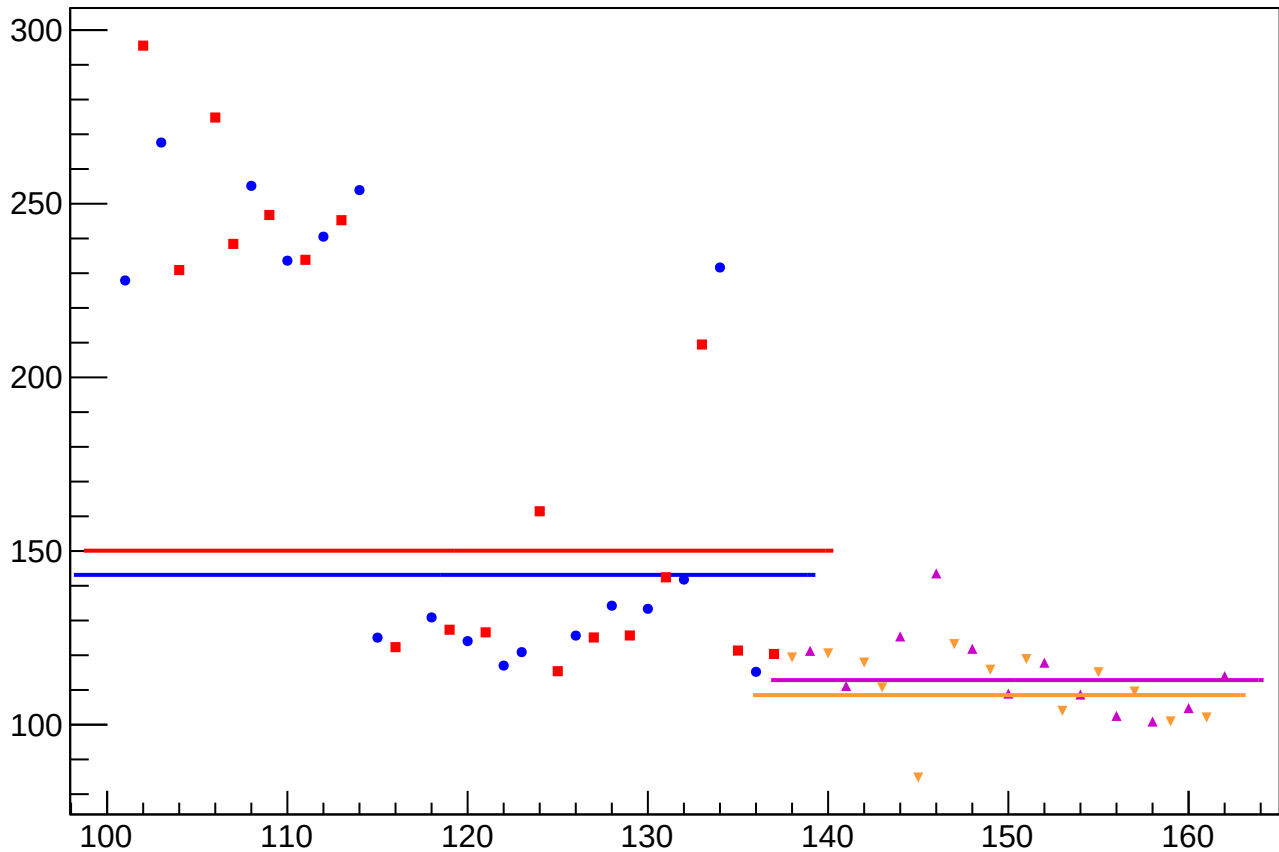
Left In: -79.287 $\pm$ 36.522  $\chi^2$ /NDF:12.0/11

+ sign 92.184 $\pm$ 29.870  $\chi^2$ /NDF: 34.7/29

All: 18.681 $\pm$ 21.581  $\chi^2$ /NDF: 76.7/59

- sign -61.594 $\pm$ 31.215  $\chi^2$ /NDF: 29.3/29

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 143.140 $\pm$ 0.041  $\chi^2$ /NDF: 1101269.0/16

Left Out: 108.521 $\pm$ 0.025  $\chi^2$ /NDF:213353.7/12

Right Out: 150.109 $\pm$ 0.043  $\chi^2$ /NDF: 1332775.0/17

Left In: 112.838 $\pm$ 0.026  $\chi^2$ /NDF:154643.3/11

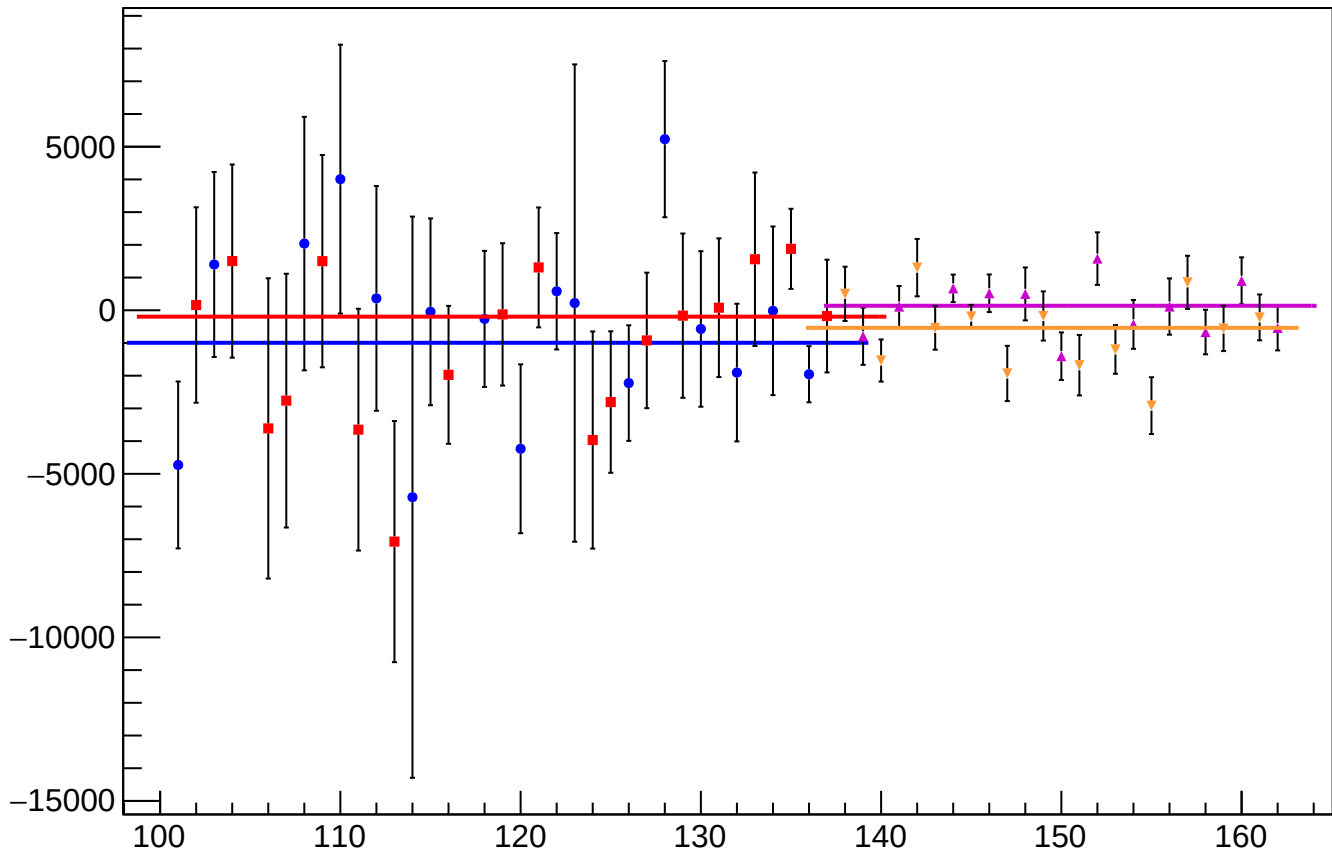
+ sign 117.708 $\pm$ 0.021  $\chi^2$ /NDF: 1838375.8/29

All: 120.182 $\pm$ 0.015  $\chi^2$ /NDF: 3915850.7/59

- sign 122.883 $\pm$ 0.022  $\chi^2$ /NDF: 2048779.9/29



# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In: -993.785 $\pm$ 516.463  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: -537.360 $\pm$ 187.121  $\chi^2/\text{NDF}$ : 25.3/12

Right Out: -195.049 $\pm$ 543.821  $\chi^2/\text{NDF}$ : 13.5/17

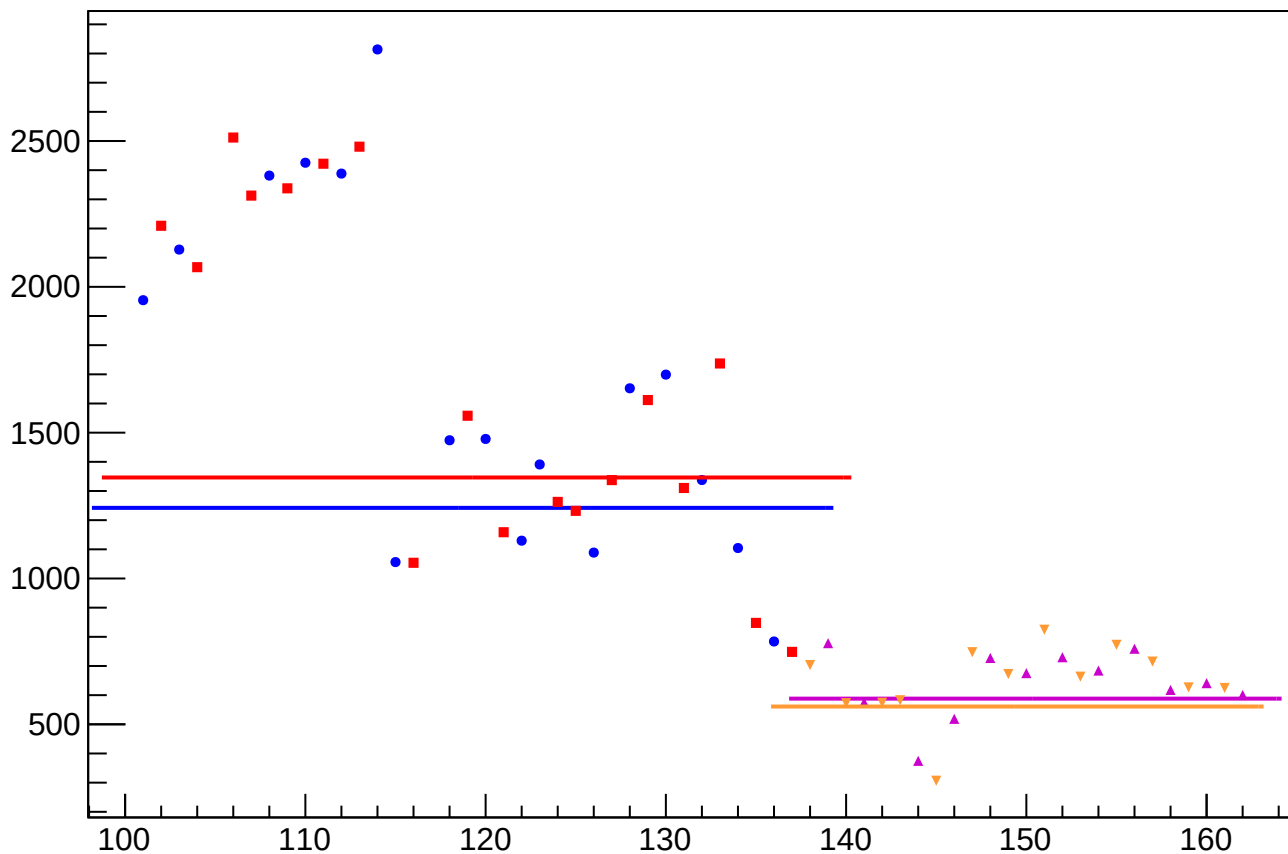
Left In: 137.700 $\pm$ 192.995  $\chi^2/\text{NDF}$ : 15.2/11

+ sign -590.322 $\pm$ 175.930  $\chi^2/\text{NDF}$ : 42.9/29

All: -256.408 $\pm$ 126.453  $\chi^2/\text{NDF}$ : 79.4/59

- sign 100.480 $\pm$ 181.881  $\chi^2/\text{NDF}$ : 29.1/29

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 560.975 $\pm$ 0.132  $\chi^2$ /NDF:1664991.8/12

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

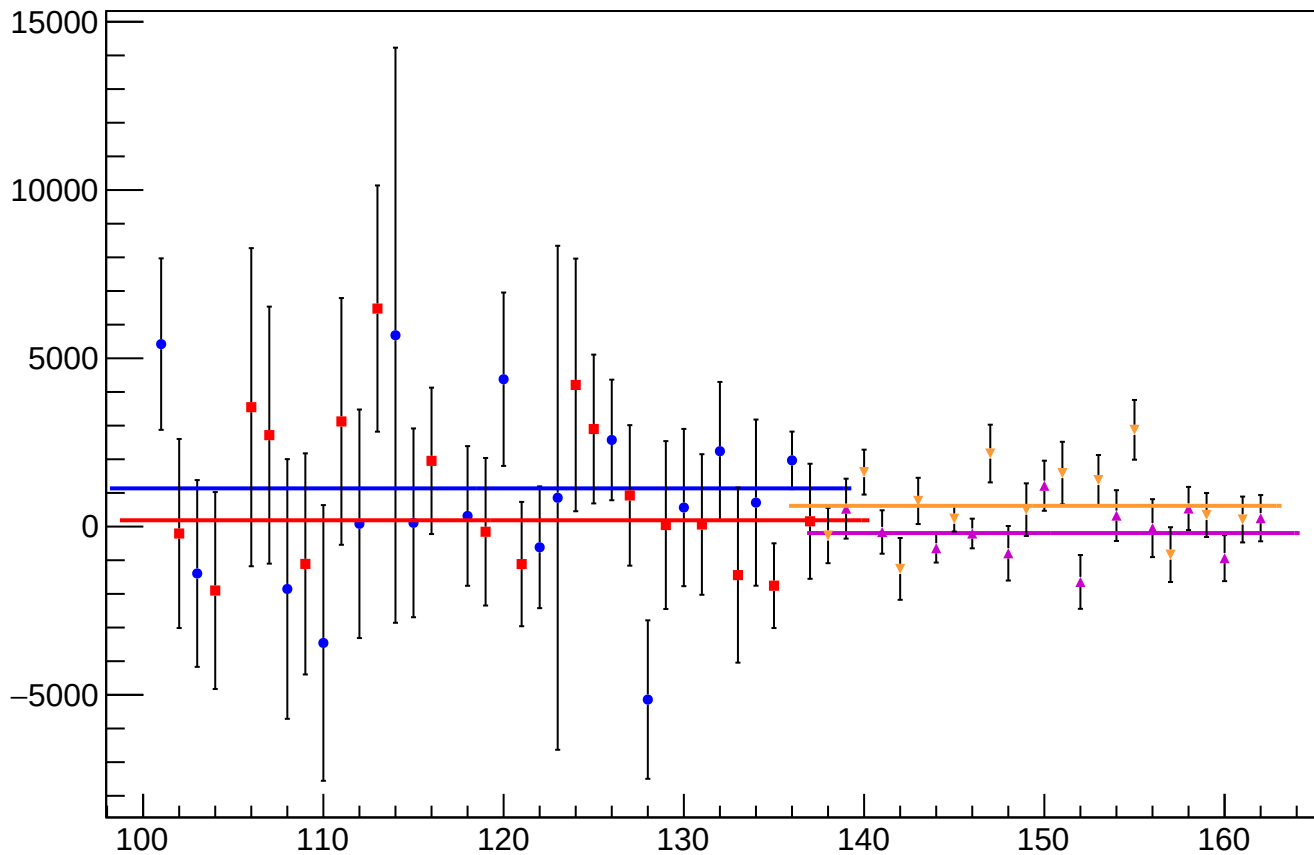
Left In: 588.076 $\pm$ 0.136  $\chi^2$ /NDF:917207.5/11

+ sign 640.020 $\pm$ 0.124  $\chi^2$ /NDF: 6508020.9/29

All: 655.910 $\pm$ 0.089  $\chi^2$ /NDF: 12721497.2/59

- sign 672.893 $\pm$ 0.129  $\chi^2$ /NDF: 6179722.8/29

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 616.686 $\pm$ 191.870  $\chi^2$ /NDF: 24.3/12

Right Out: 187.508 $\pm$ 548.191  $\chi^2$ /NDF: 12.0/17

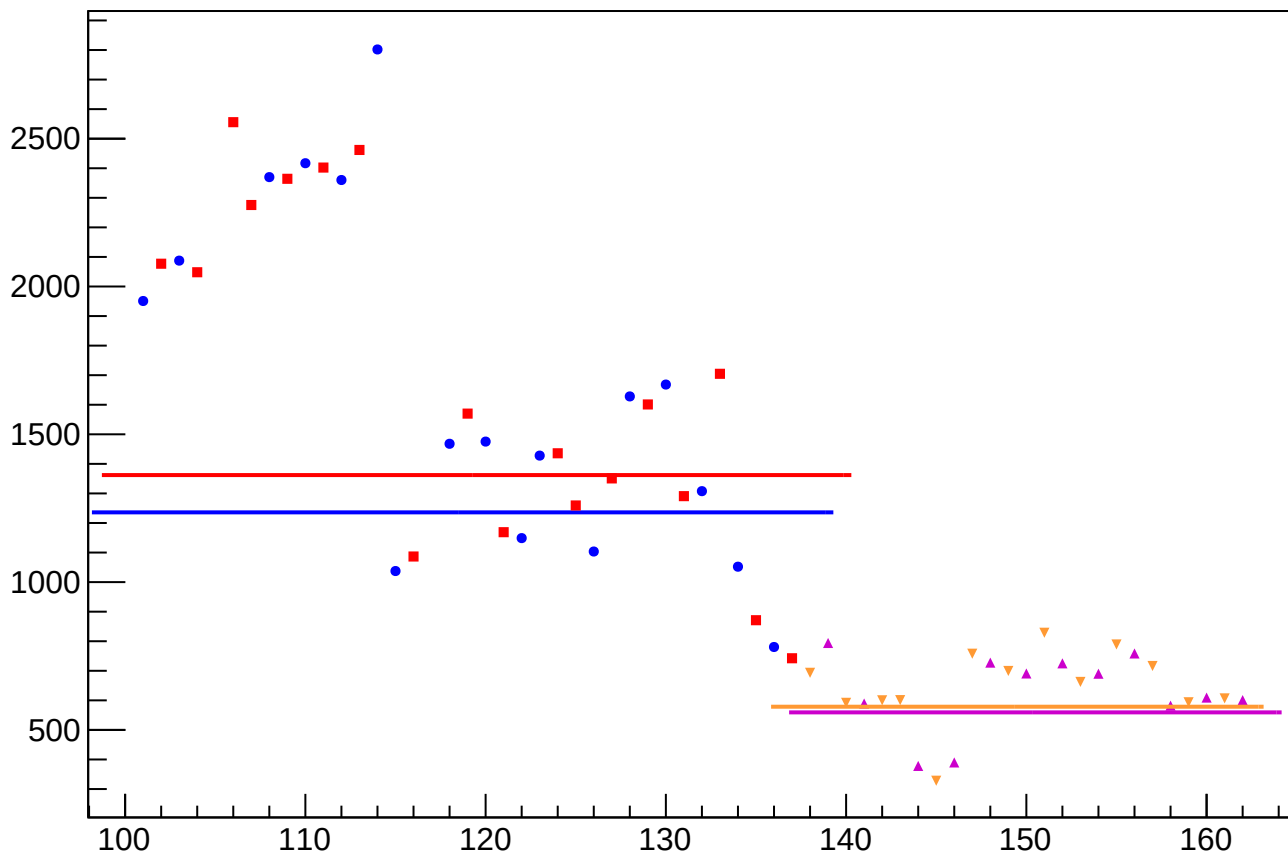
Left In: -192.495 $\pm$ 185.642  $\chi^2$ /NDF: 12.6/11

+ sign 680.154 $\pm$ 179.745  $\chi^2$ /NDF: 42.9/29

All: 254.209 $\pm$ 125.693  $\chi^2$ /NDF: 78.9/59

- sign -153.399 $\pm$ 175.834  $\chi^2$ /NDF: 25.0/29

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1235.939+/-0.363  $\chi^2/\text{NDF}$ : 1745716.2/16

Left Out: 578.509+/-0.136  $\chi^2/\text{NDF}$ : 1387404.2/12

Right Out: 1362.092+/-0.388  $\chi^2/\text{NDF}$ : 1709253.2/17

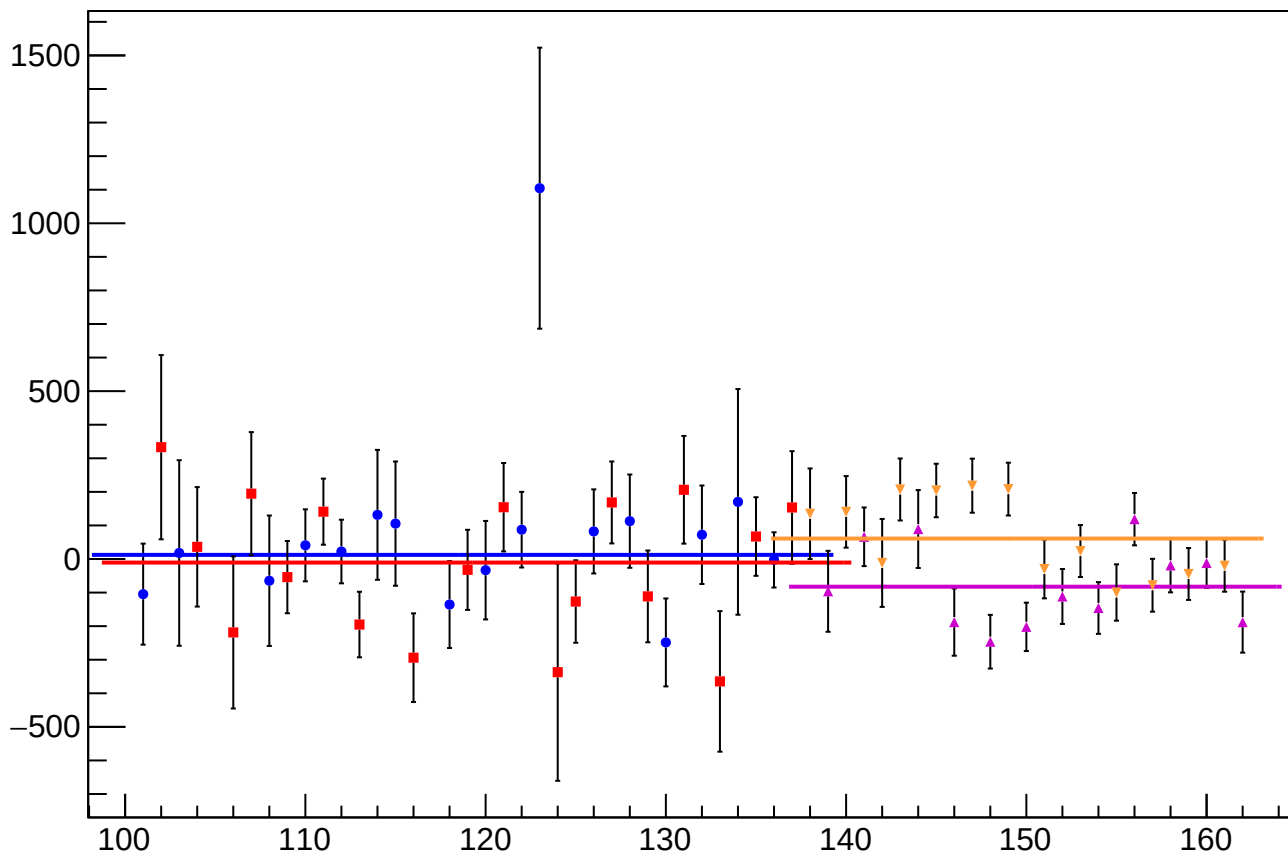
Left In: 559.338+/-0.131  $\chi^2/\text{NDF}$ : 1223480.4/11

+ sign 658.977+/-0.127  $\chi^2/\text{NDF}$ : 6007128.7/29

All: 650.265+/-0.089  $\chi^2/\text{NDF}$ : 12796575.2/59

- sign 641.927+/-0.124  $\chi^2/\text{NDF}$ : 6780250.5/29

# dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 12.308+/-33.228  $\chi^2/\text{NDF}$ : 15.4/16

Left Out: 60.914+/-24.052  $\chi^2/\text{NDF}$ : 25.3/12

Right Out: -10.591+/-32.606  $\chi^2/\text{NDF}$ : 26.7/17

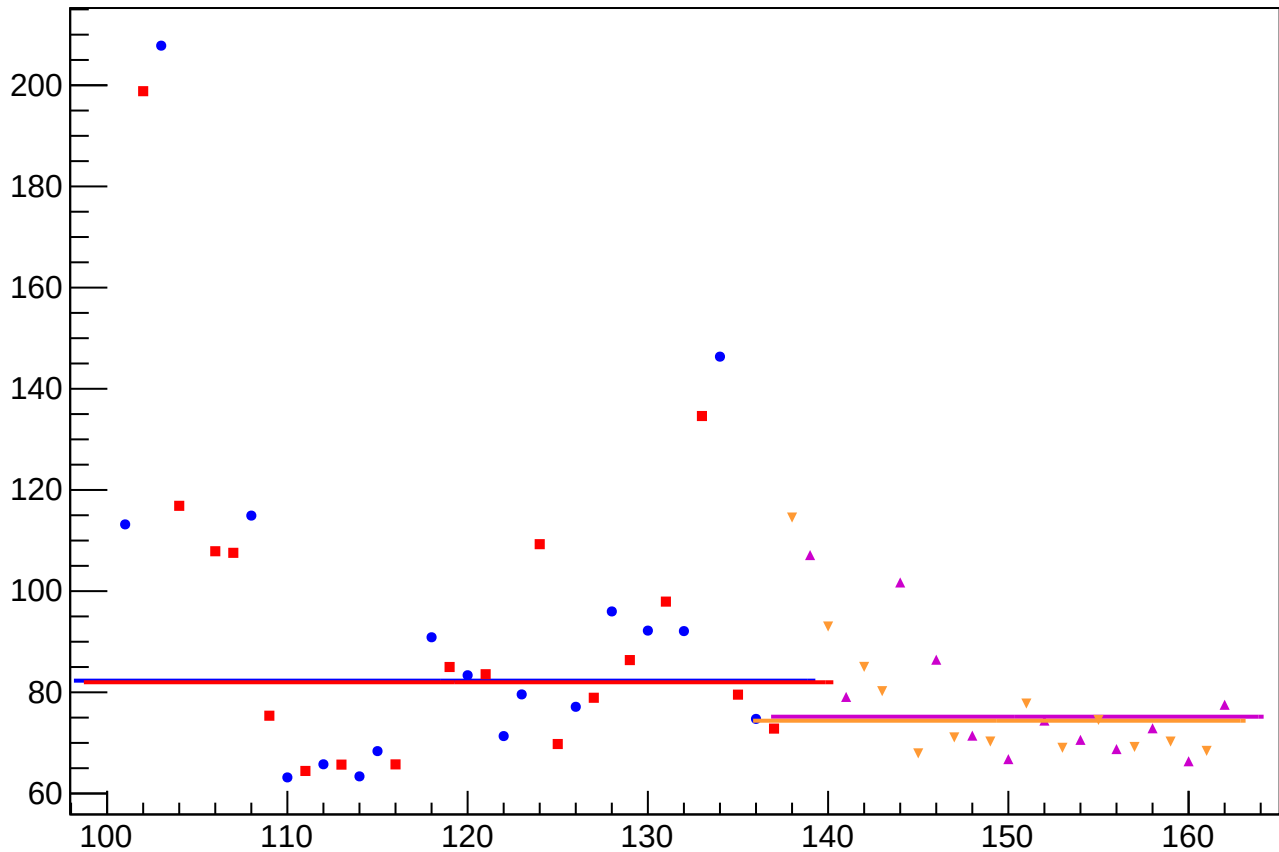
Left In: -82.455+/-24.530  $\chi^2/\text{NDF}$ : 23.5/11

+ sign 44.203+/-19.484  $\chi^2/\text{NDF}$ : 42.1/29

All: -5.834+/-13.819  $\chi^2/\text{NDF}$ : 108.7/59

- sign -56.482+/-19.602  $\chi^2/\text{NDF}$ : 53.3/29

# dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In:  $82.306 \pm 0.023$   $\chi^2/\text{NDF}: 868742.4/16$

Left Out:  $74.388 \pm 0.017$   $\chi^2/\text{NDF}: 320274.7/12$

Right Out:  $81.987 \pm 0.023$   $\chi^2/\text{NDF}: 853217.2/17$

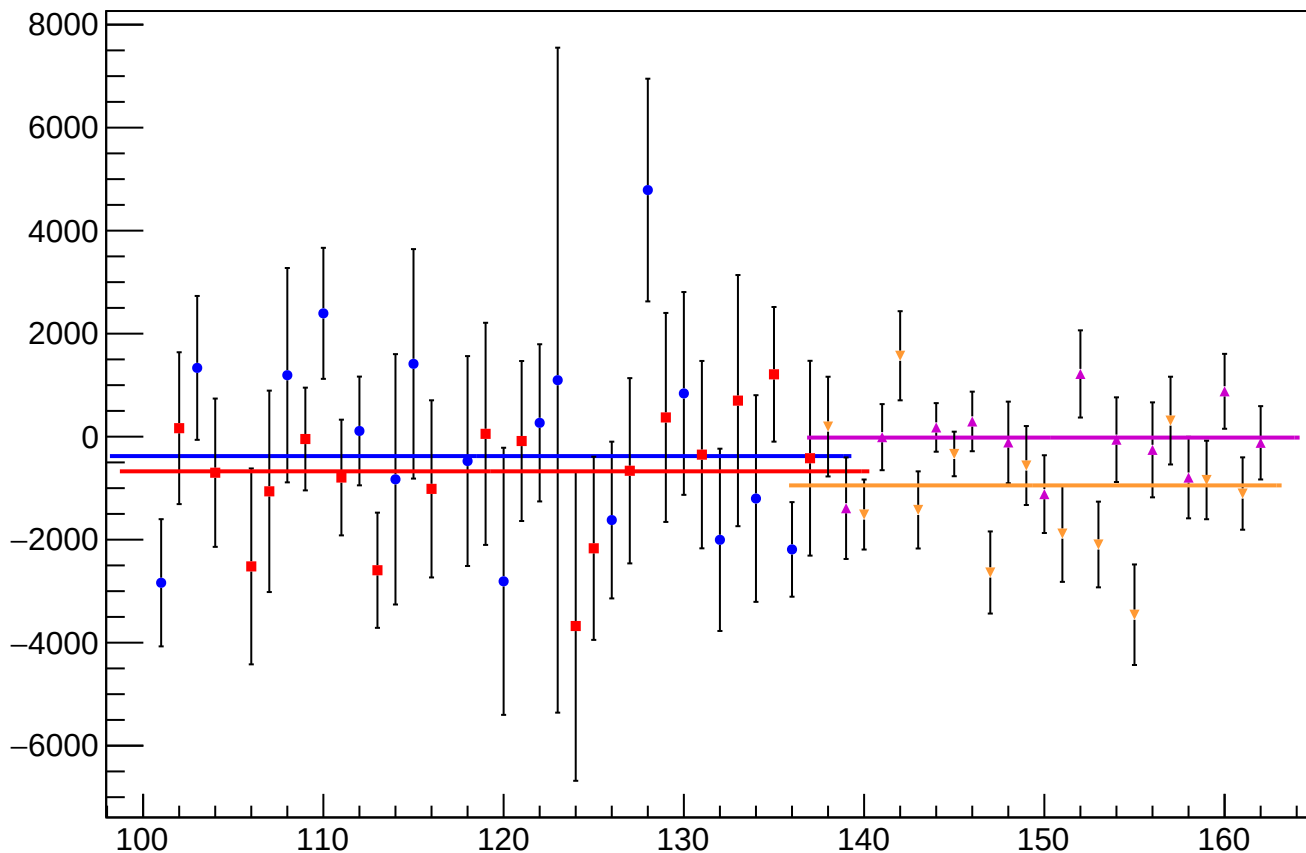
Left In:  $75.180 \pm 0.017$   $\chi^2/\text{NDF}: 357539.7/11$

+ sign  $77.110 \pm 0.014$   $\chi^2/\text{NDF}: 1263543.4/29$

All:  $77.374 \pm 0.010$   $\chi^2/\text{NDF}: 2530705.3/59$

- sign  $77.640 \pm 0.014$   $\chi^2/\text{NDF}: 1266425.6/29$

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In: -377.330 $\pm$ 383.897  $\chi^2/\text{NDF}$ : 24.5/16

Left Out: -946.358 $\pm$ 205.315  $\chi^2/\text{NDF}$ : 29.5/12

Right Out: -673.192 $\pm$ 368.624  $\chi^2/\text{NDF}$ : 9.4/17

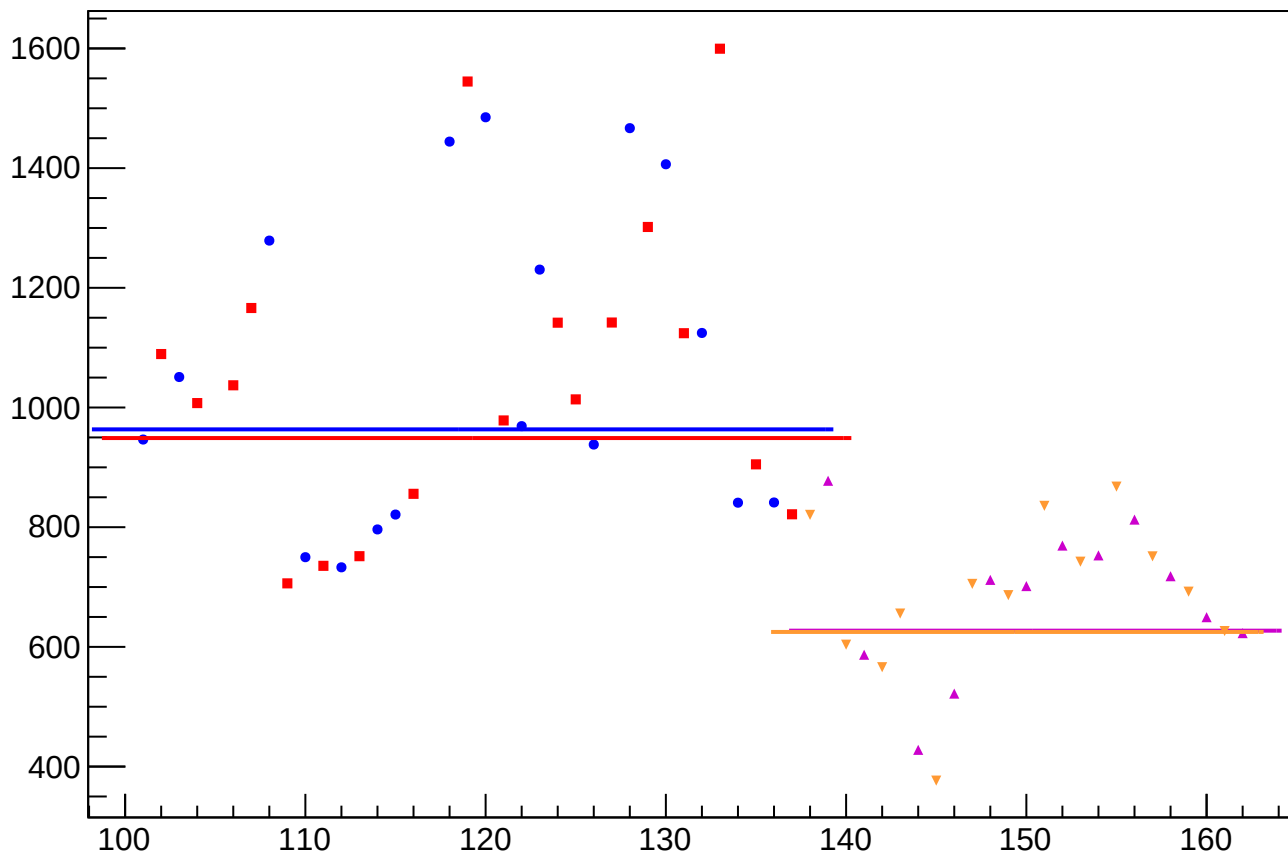
Left In: -18.044 $\pm$ 204.980  $\chi^2/\text{NDF}$ : 9.2/11

+ sign -819.799 $\pm$ 181.048  $\chi^2/\text{NDF}$ : 55.6/29

All: -492.871 $\pm$ 127.343  $\chi^2/\text{NDF}$ : 83.1/59

- sign -172.779 $\pm$ 179.146  $\chi^2/\text{NDF}$ : 21.0/29

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 963.469 $\pm$ 0.271  $\chi^2$ /NDF: 688873.3/16

Left Out: 624.962 $\pm$ 0.145  $\chi^2$ /NDF:1113025.2/12

Right Out: 948.947 $\pm$ 0.261  $\chi^2$ /NDF: 729378.3/17

Left In: 627.097 $\pm$ 0.145  $\chi^2$ /NDF:814546.6/11

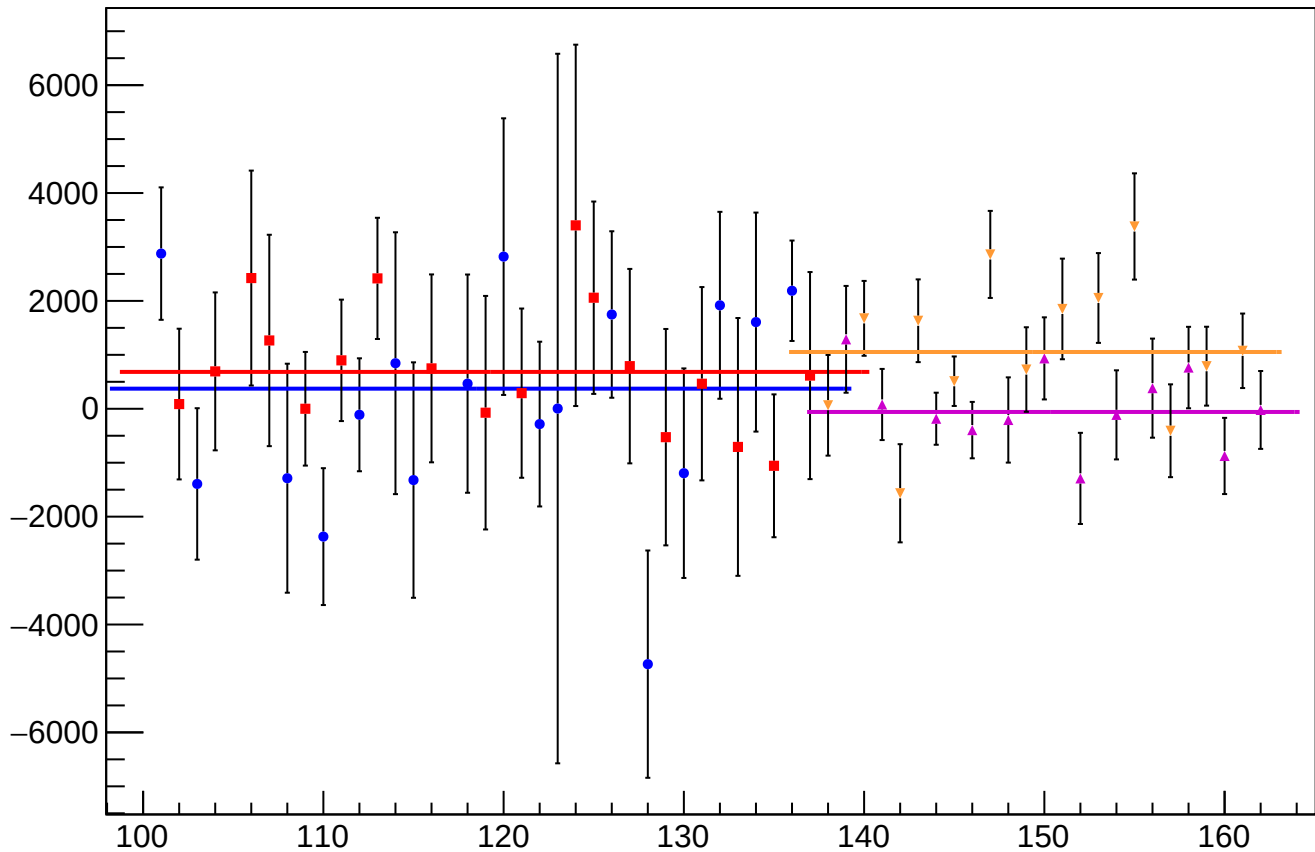
+ sign 700.251 $\pm$ 0.128  $\chi^2$ /NDF: 3011057.4/29

All: 701.696 $\pm$ 0.090  $\chi^2$ /NDF: 5719795.6/59

- sign 703.112 $\pm$ 0.127  $\chi^2$ /NDF: 2708485.8/29



# asym\_sam\_37\_avg\_mean vs Slug



Right In: 372.896 $\pm$ 383.661  $\chi^2$ /NDF: 25.3/16

Left Out: 1052.809 $\pm$ 208.593  $\chi^2$ /NDF:28.1/12

Right Out: 683.612 $\pm$ 372.418  $\chi^2$ /NDF: 7.8/17

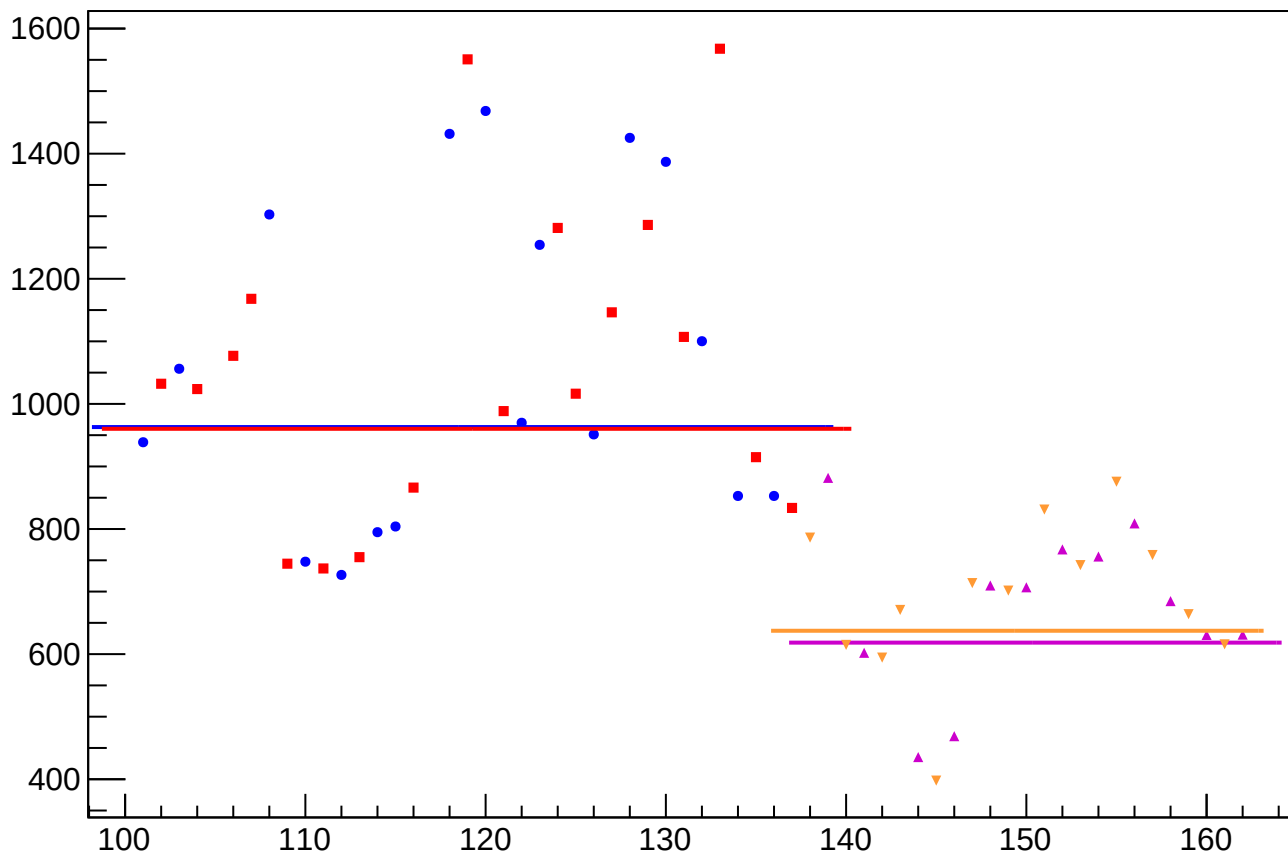
Left In: -59.072 $\pm$ 202.759  $\chi^2$ /NDF:9.0/11

+ sign 897.683 $\pm$ 183.259  $\chi^2$ /NDF: 55.8/29

All: 492.928 $\pm$ 127.712  $\chi^2$ /NDF: 85.2/59

- sign 110.737 $\pm$ 178.077  $\chi^2$ /NDF: 19.8/29

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 962.971+/-0.271  $\chi^2/\text{NDF}$ : 667521.9/16

Left Out: 637.354+/-0.147  $\chi^2/\text{NDF}$ : 916707.9/12

Right Out: 960.218+/-0.263  $\chi^2/\text{NDF}$ : 671009.3/17

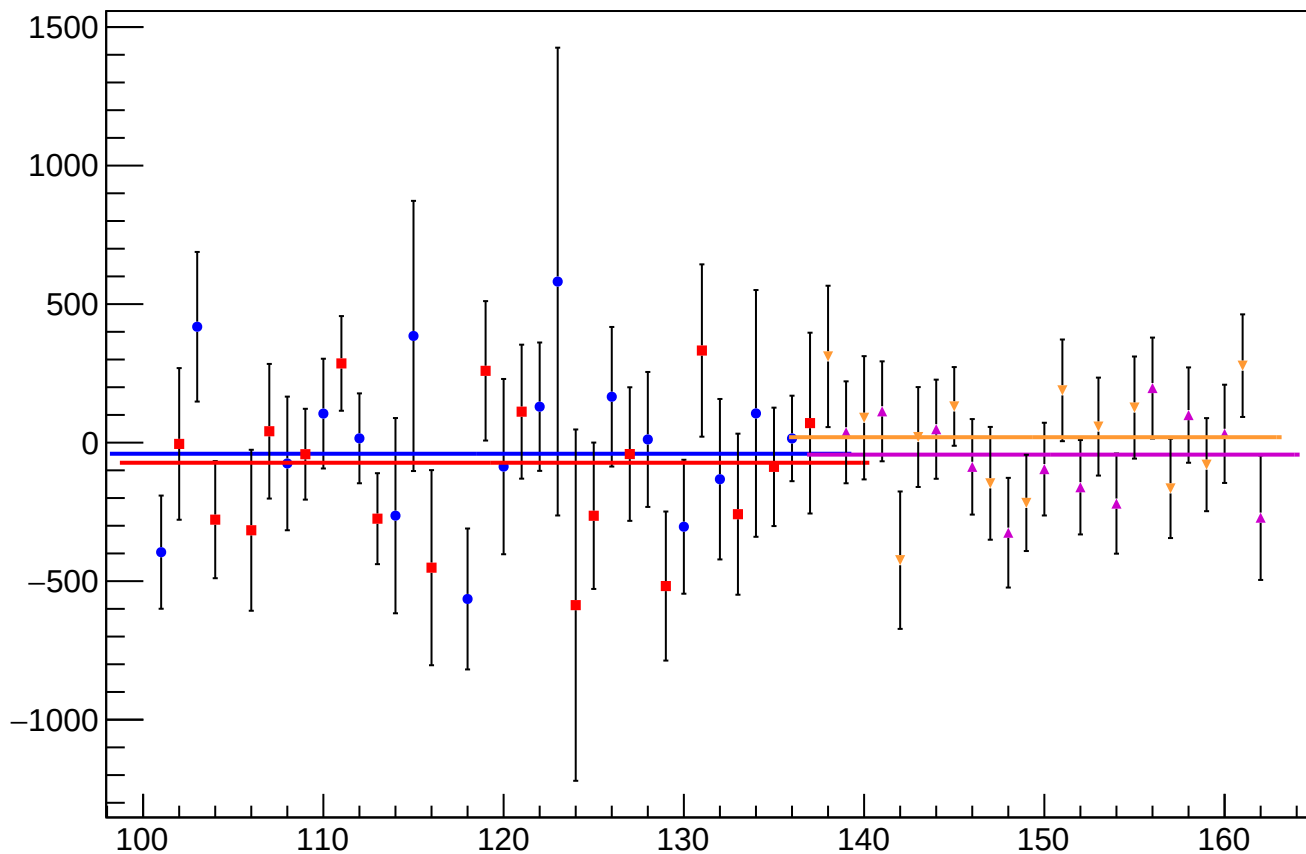
Left In: 618.390+/-0.143  $\chi^2/\text{NDF}$ : 867930.7/11

+ sign 711.645+/-0.130  $\chi^2/\text{NDF}$ : 2696157.4/29

All: 703.879+/-0.090  $\chi^2/\text{NDF}$ : 5541773.2/59

- sign 696.546+/-0.126  $\chi^2/\text{NDF}$ : 2838632.4/29

# dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-40.122 \pm 59.256$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $19.600 \pm 51.552$   $\chi^2/\text{NDF}$ : 12.3/12

Right Out:  $-72.607 \pm 56.313$   $\chi^2/\text{NDF}$ : 17.6/17

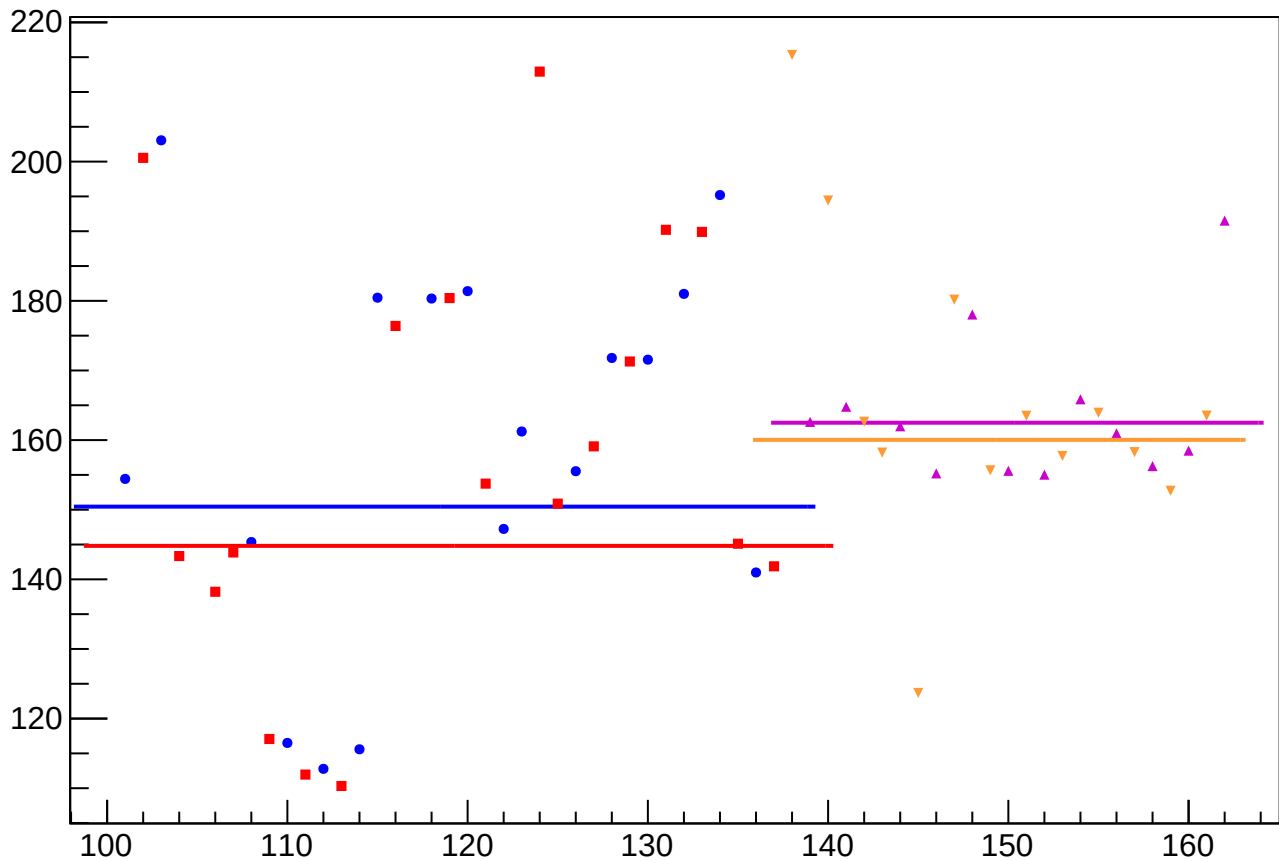
Left In:  $-43.304 \pm 52.204$   $\chi^2/\text{NDF}$ : 8.5/11

+ sign  $-6.128 \pm 38.893$   $\chi^2/\text{NDF}$ : 28.2/29

All:  $-31.888 \pm 27.284$   $\chi^2/\text{NDF}$ : 55.3/59

- sign  $-56.847 \pm 38.284$   $\chi^2/\text{NDF}$ : 26.2/29

# dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 160.035 $\pm$ 0.036  $\chi^2$ /NDF:300574.1/12

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

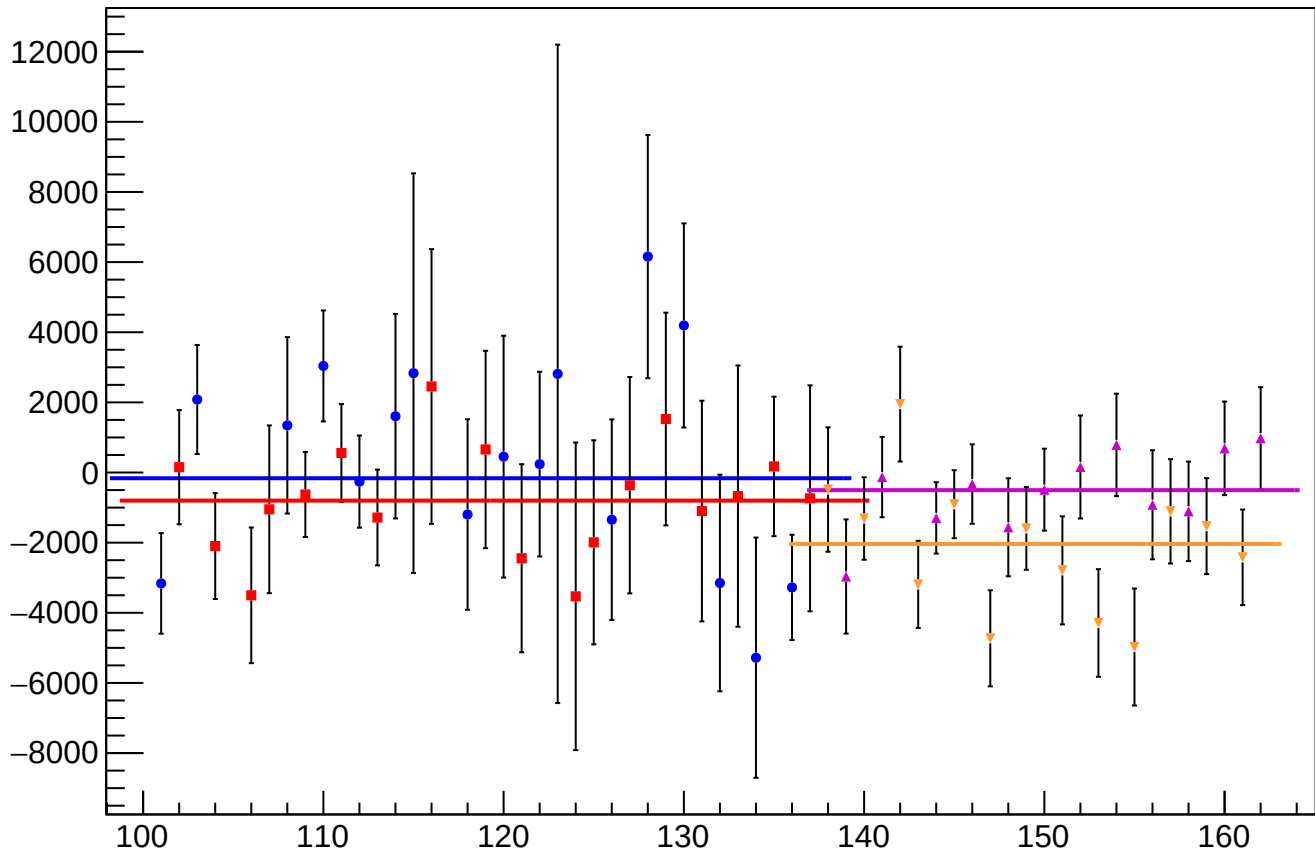
Left In: 162.496 $\pm$ 0.037  $\chi^2$ /NDF:61292.3/11

+ sign 155.902 $\pm$ 0.028  $\chi^2$ /NDF: 730530.4/29

All: 155.099 $\pm$ 0.019  $\chi^2$ /NDF: 1403499.3/59

- sign 154.321 $\pm$ 0.027  $\chi^2$ /NDF: 671289.9/29

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In:  $-162.807 \pm 533.165$   $\chi^2/\text{NDF}: 25.1/16$

Left Out:  $-2035.837 \pm 375.128$   $\chi^2/\text{NDF}: 19.4/12$

Right Out:  $-801.139 \pm 486.610$   $\chi^2/\text{NDF}: 6.9/17$

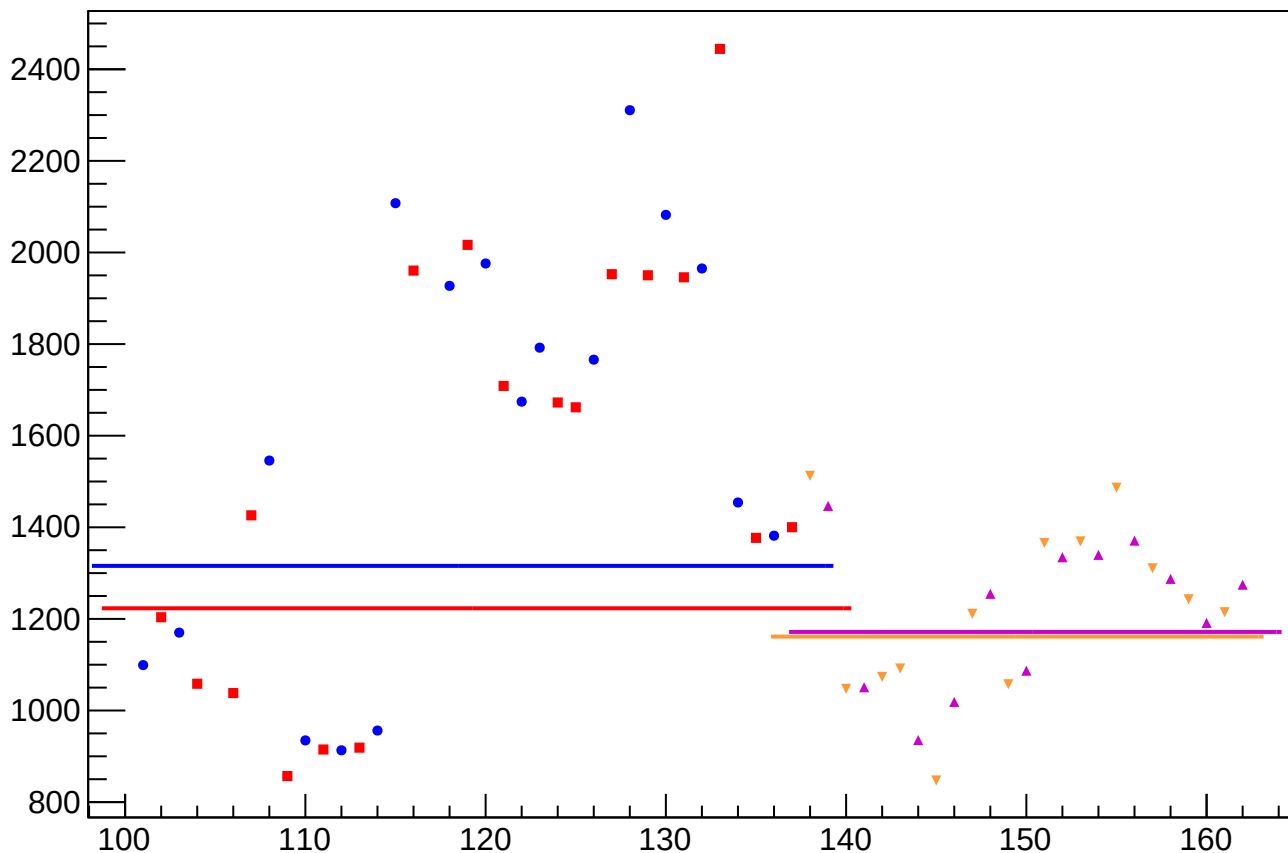
Left In:  $-502.706 \pm 377.853$   $\chi^2/\text{NDF}: 6.7/11$

+ sign  $-1415.640 \pm 306.799$   $\chi^2/\text{NDF}: 52.7/29$

All:  $-1004.250 \pm 213.924$   $\chi^2/\text{NDF}: 70.0/59$

- sign  $-614.962 \pm 298.444$   $\chi^2/\text{NDF}: 13.8/29$

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In:  $1315.784 \pm 0.377$   $\chi^2/\text{NDF}$ : 1118346.6/16

Left Out:  $1161.291 \pm 0.265$   $\chi^2/\text{NDF}$ : 515700.6/12

Right Out:  $1223.179 \pm 0.344$   $\chi^2/\text{NDF}$ : 1363055.0/17

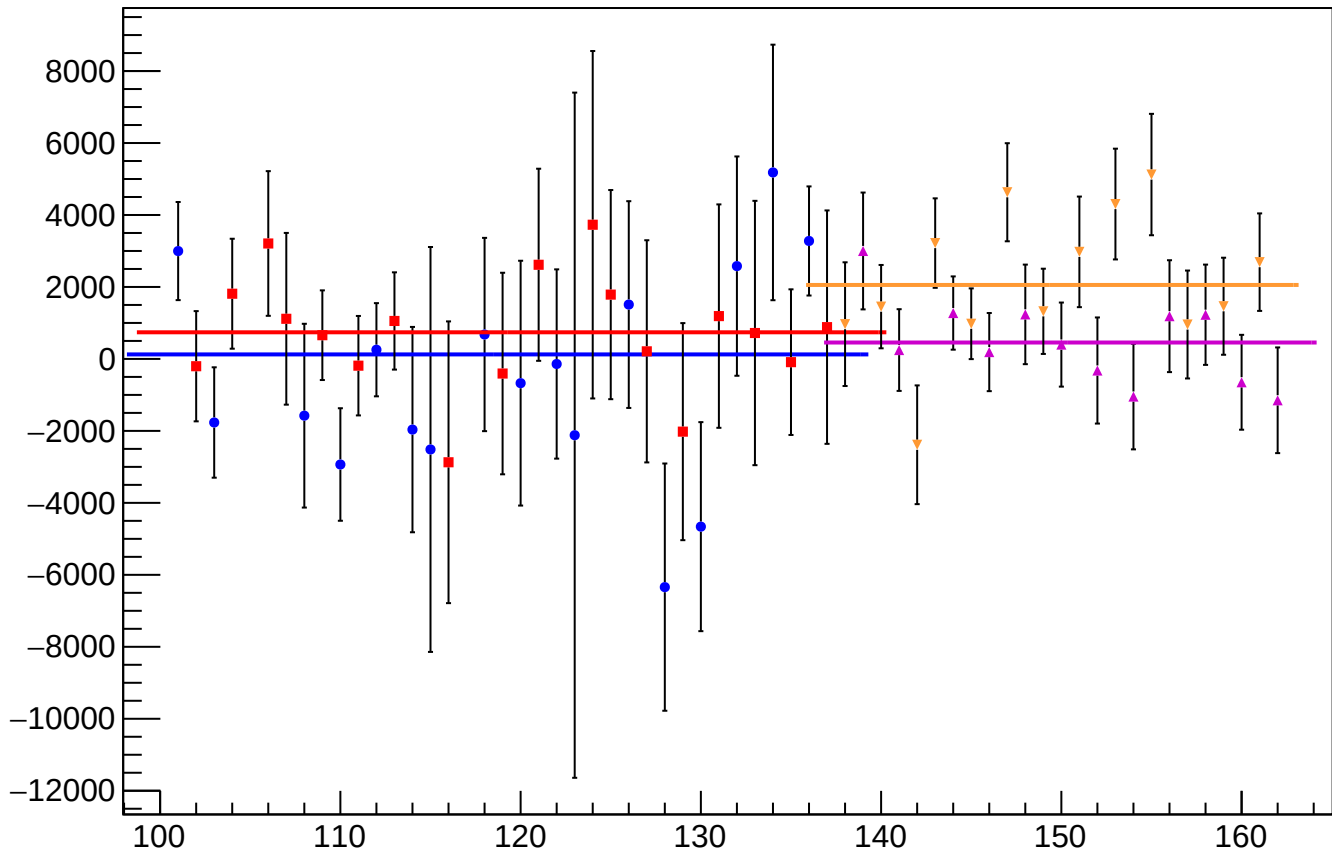
Left In:  $1171.555 \pm 0.267$   $\chi^2/\text{NDF}$ : 348820.4/11

+ sign  $1212.447 \pm 0.217$   $\chi^2/\text{NDF}$ : 1746372.1/29

All:  $1201.413 \pm 0.151$   $\chi^2/\text{NDF}$ : 3477324.5/59

- sign  $1190.973 \pm 0.211$   $\chi^2/\text{NDF}$ : 1725918.1/29

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 125.377 $\pm$ 526.801  $\chi^2$ /NDF: 24.7/16

Left Out: 2055.576 $\pm$ 374.719  $\chi^2$ /NDF: 20.7/12

Right Out: 739.954 $\pm$ 486.808  $\chi^2$ /NDF: 6.0/17

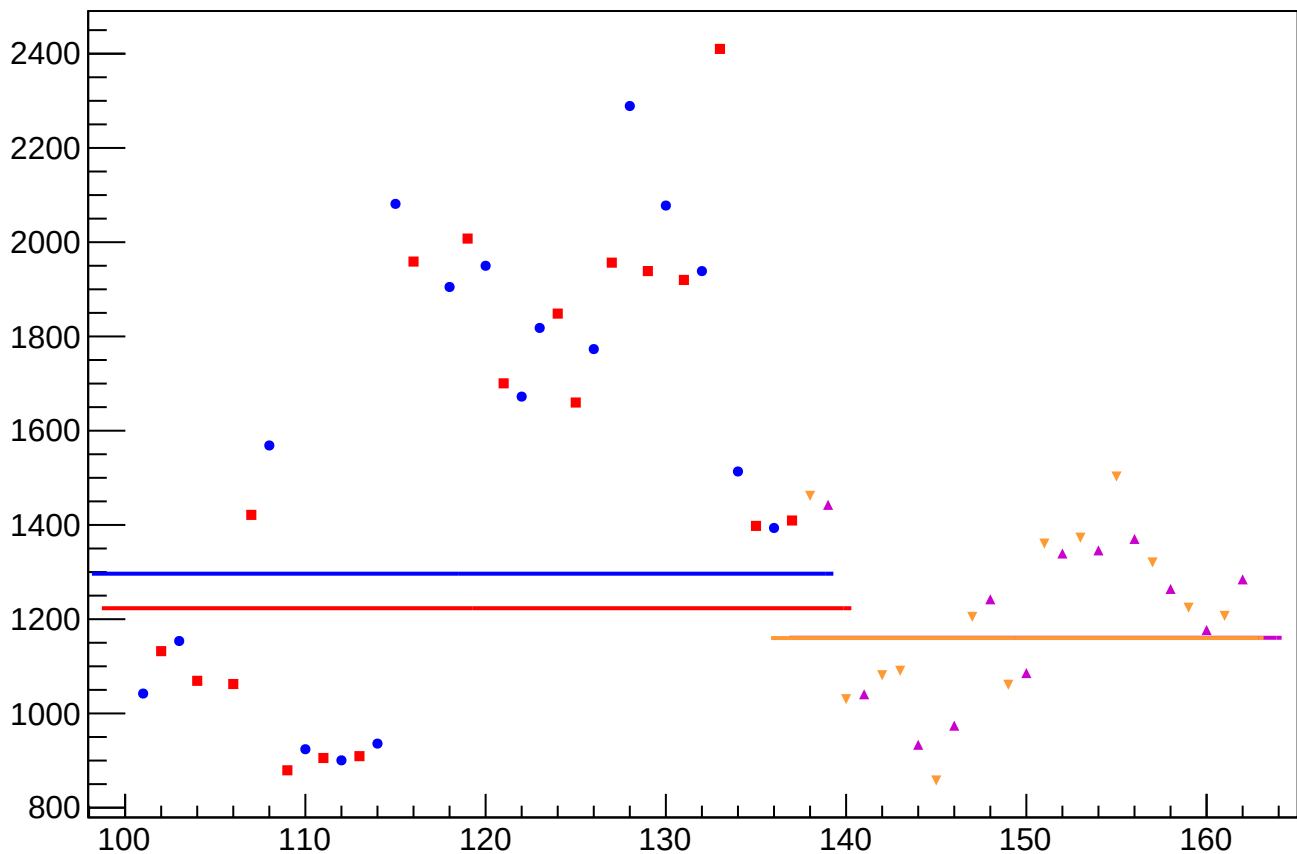
Left In: 455.931 $\pm$ 374.882  $\chi^2$ /NDF: 7.3/11

+ sign 1407.081 $\pm$ 305.351  $\chi^2$ /NDF: 54.3/29

All: 972.680 $\pm$ 212.909  $\chi^2$ /NDF: 71.7/59

- sign 561.663 $\pm$ 297.018  $\chi^2$ /NDF: 13.5/29

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1296.573+/-0.373  $\chi^2/\text{NDF}$ : 1175465.2/16

Left Out: 1159.950+/-0.265  $\chi^2/\text{NDF}$ : 487632.8/12

Right Out: 1223.274+/-0.344  $\chi^2/\text{NDF}$ : 1346689.2/17

Left In: 1160.593+/-0.265  $\chi^2/\text{NDF}$ : 379806.6/11

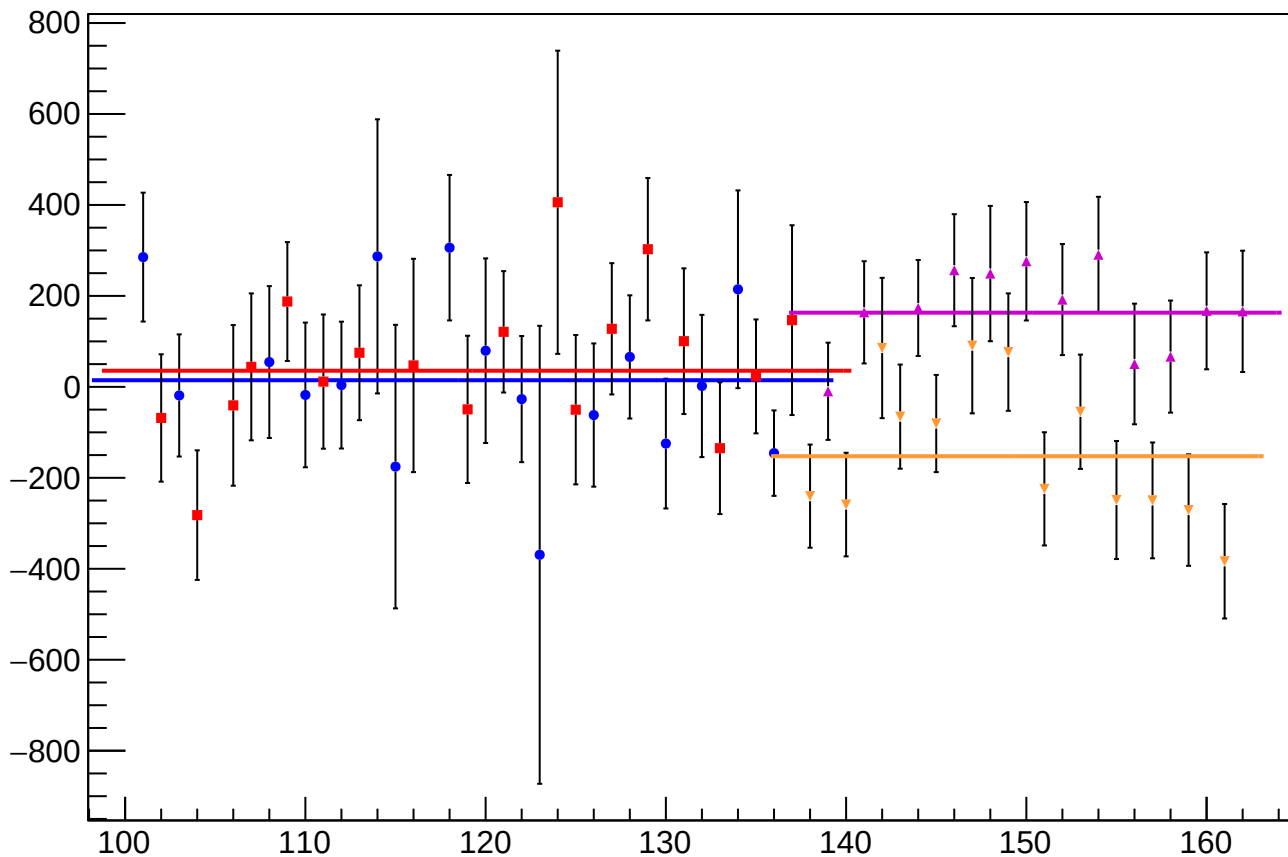
+ sign 1205.851+/-0.216  $\chi^2/\text{NDF}$ : 1752423.4/29

All: 1194.586+/-0.151  $\chi^2/\text{NDF}$ : 3505032.1/59

- sign 1183.927+/-0.210  $\chi^2/\text{NDF}$ : 1747310.7/29



# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 14.577 $\pm$ 38.017  $\chi^2$ /NDF: 14.2/16

Left Out: -152.463 $\pm$ 34.411  $\chi^2$ /NDF: 17.1/12

Right Out: 35.475 $\pm$ 36.728  $\chi^2$ /NDF: 14.5/17

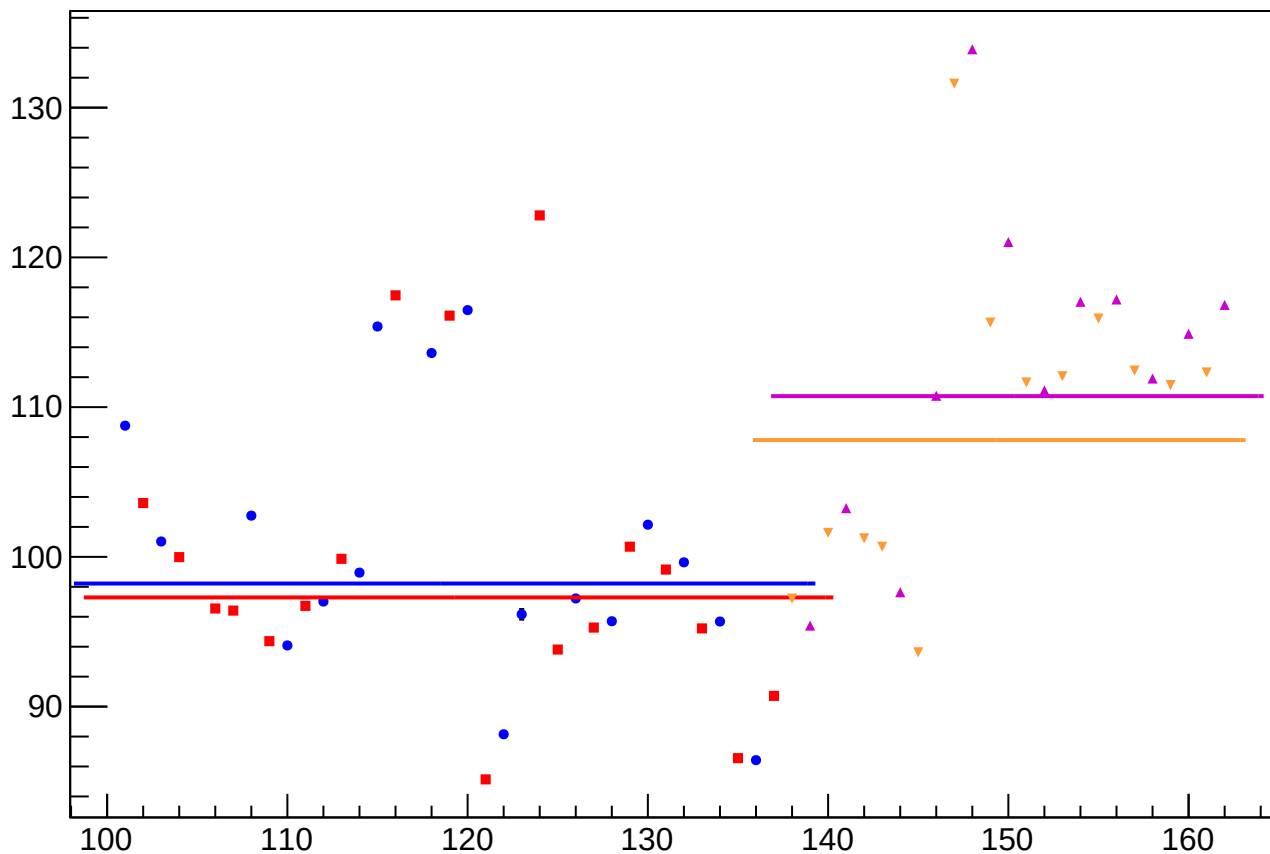
Left In: 163.110 $\pm$ 35.473  $\chi^2$ /NDF: 6.7/11

+ sign -77.238 $\pm$ 25.512  $\chi^2$ /NDF: 41.9/29

All: 12.124 $\pm$ 18.041  $\chi^2$ /NDF: 93.9/59

- sign 101.510 $\pm$ 25.515  $\chi^2$ /NDF: 27.4/29

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 98.219+/-0.027  $\chi^2/\text{NDF}$ : 100510.4/16

Left Out: 107.799+/-0.024  $\chi^2/\text{NDF}$ : 147527.0/12

Right Out: 97.290+/-0.026  $\chi^2/\text{NDF}$ : 96216.6/17

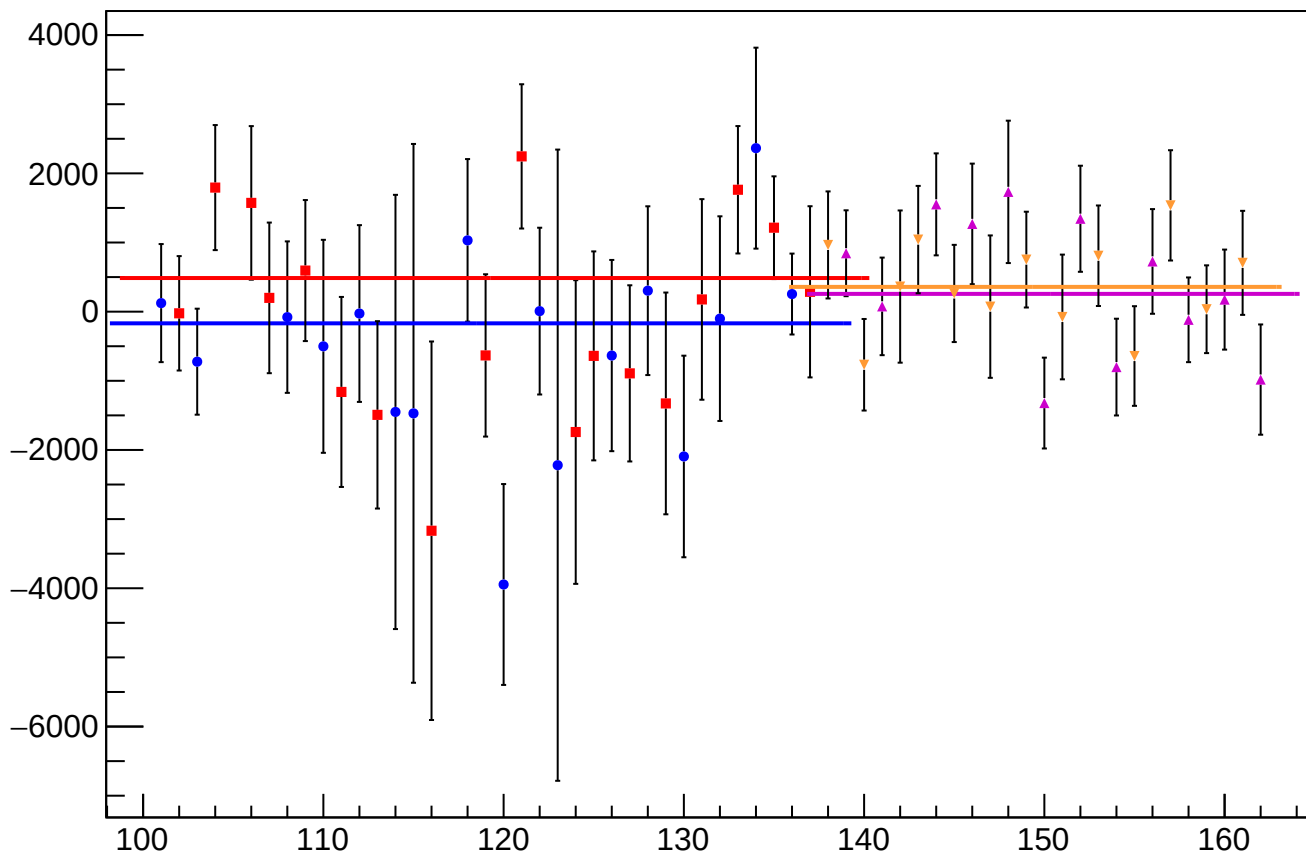
Left In: 110.734+/-0.025  $\chi^2/\text{NDF}$ : 157871.6/11

+ sign 103.485+/-0.018  $\chi^2/\text{NDF}$ : 317848.4/29

All: 103.865+/-0.013  $\chi^2/\text{NDF}$ : 711457.7/59

- sign 104.246+/-0.018  $\chi^2/\text{NDF}$ : 392720.1/29

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In:  $-168.802 \pm 282.178$   $\chi^2/\text{NDF}$ : 14.6/16

Left Out:  $358.303 \pm 211.495$   $\chi^2/\text{NDF}$ : 9.9/12

Right Out:  $486.312 \pm 268.010$   $\chi^2/\text{NDF}$ : 19.6/17

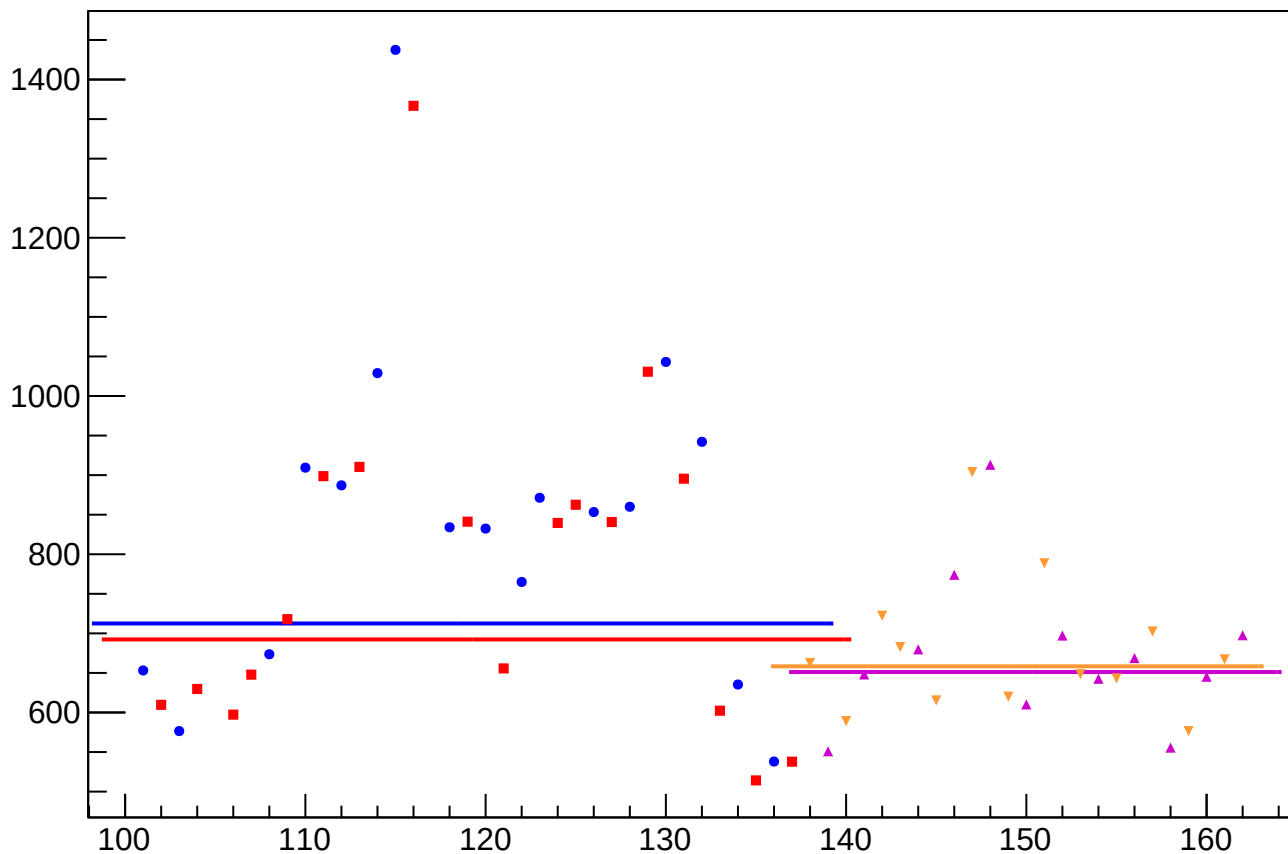
Left In:  $257.097 \pm 210.100$   $\chi^2/\text{NDF}$ : 20.7/11

+ sign  $168.704 \pm 169.236$   $\chi^2/\text{NDF}$ : 26.7/29

All:  $258.563 \pm 118.270$   $\chi^2/\text{NDF}$ : 68.0/59

- sign  $344.343 \pm 165.349$   $\chi^2/\text{NDF}$ : 40.8/29

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 712.476 $\pm$ 0.200  $\chi^2$ /NDF: 660520.6/16

Left Out: 658.357 $\pm$ 0.150  $\chi^2$ /NDF: 240601.0/12

Right Out: 692.342 $\pm$ 0.190  $\chi^2$ /NDF: 656953.1/17

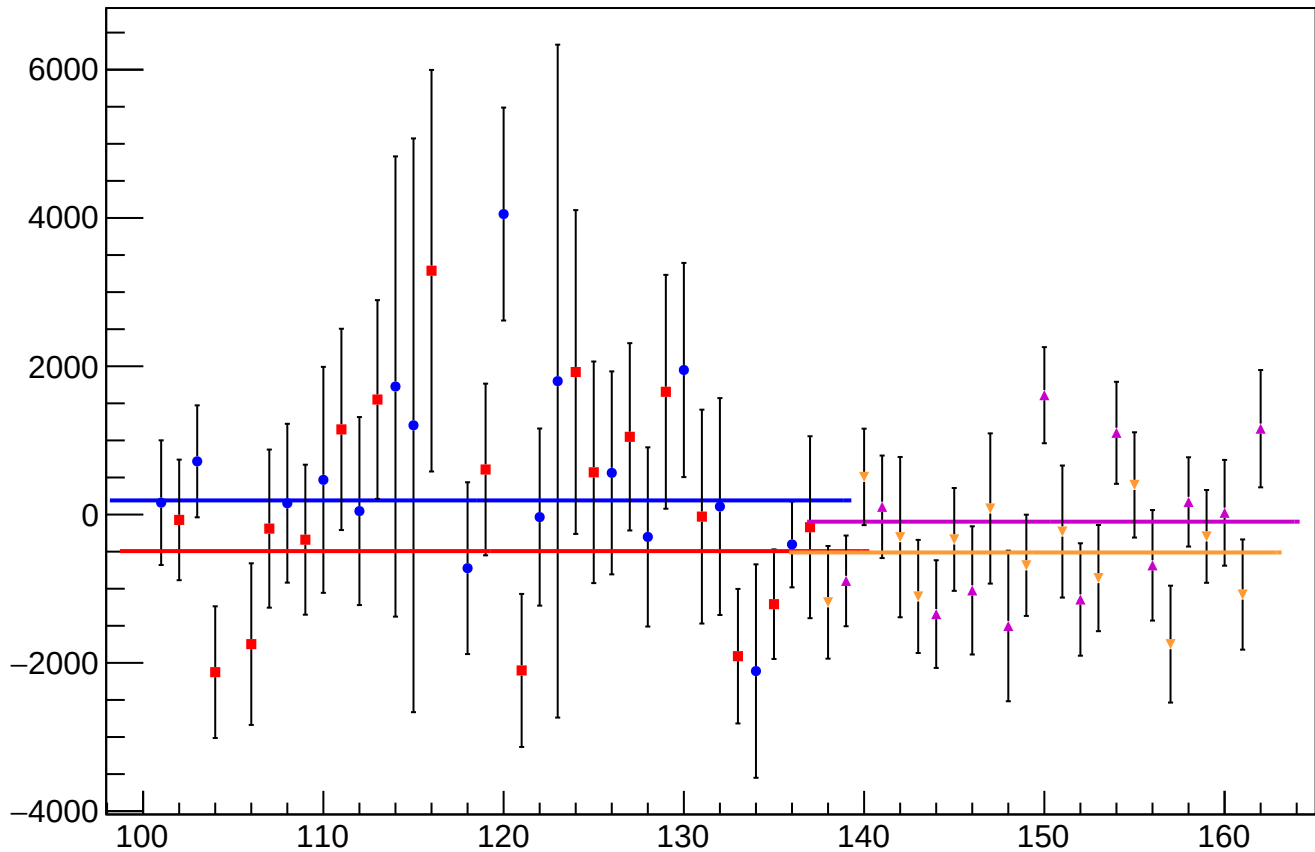
Left In: 651.138 $\pm$ 0.149  $\chi^2$ /NDF: 296210.6/11

+ sign 677.823 $\pm$ 0.120  $\chi^2$ /NDF: 948227.1/29

All: 672.195 $\pm$ 0.084  $\chi^2$ /NDF: 1934993.9/59

- sign 666.822 $\pm$ 0.117  $\chi^2$ /NDF: 982442.7/29

# asym\_sam\_15\_dd\_mean vs Slug



Right In:  $190.880 \pm 278.670$   $\chi^2/\text{NDF}$ : 14.2/16

Left Out:  $-511.086 \pm 208.335$   $\chi^2/\text{NDF}$ : 9.5/12

Right Out:  $-492.784 \pm 264.629$   $\chi^2/\text{NDF}$ : 22.8/17

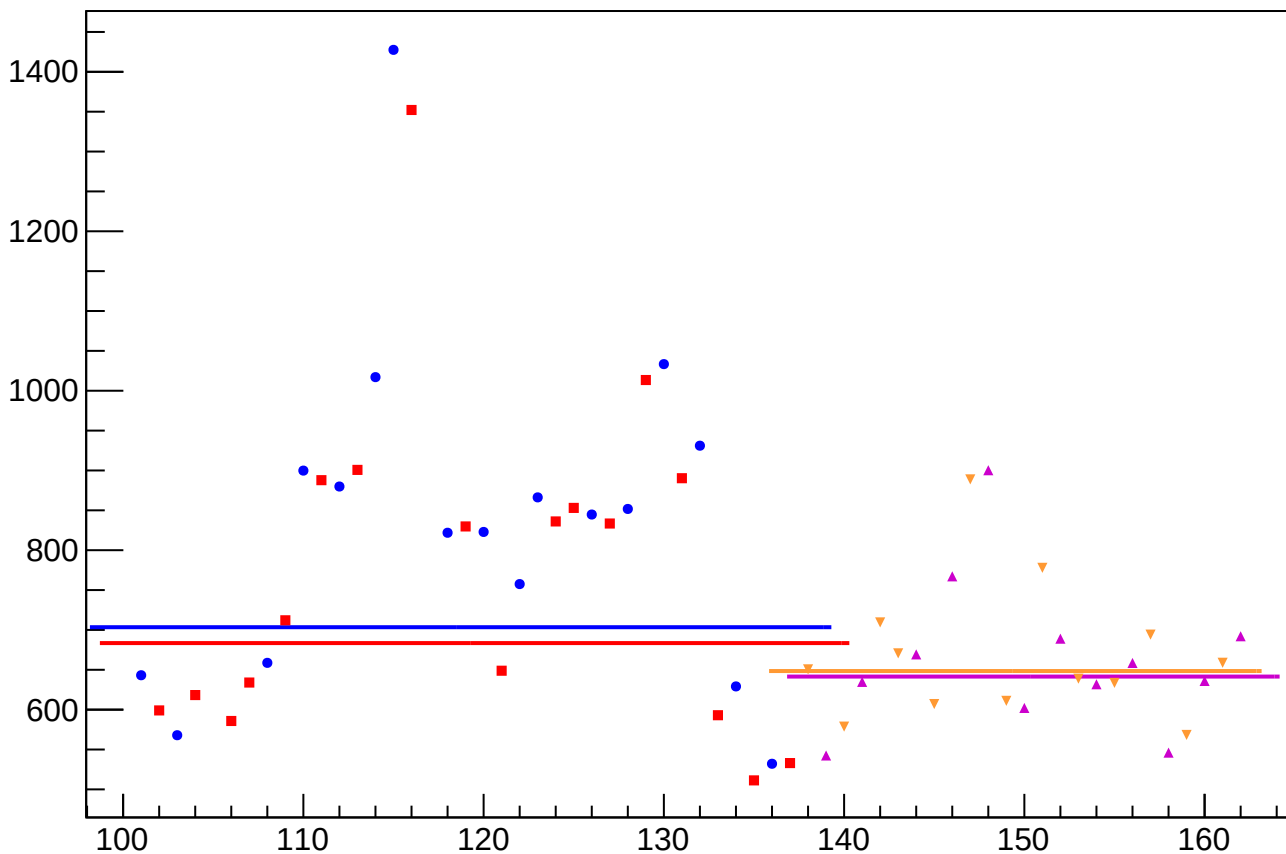
Left In:  $-95.858 \pm 207.047$   $\chi^2/\text{NDF}$ : 23.0/11

+ sign  $-259.412 \pm 166.860$   $\chi^2/\text{NDF}$ : 27.8/29

All:  $-252.846 \pm 116.623$   $\chi^2/\text{NDF}$ : 75.0/59

- sign  $-246.575 \pm 163.067$   $\chi^2/\text{NDF}$ : 47.2/29

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 703.406 $\pm$ 0.197  $\chi^2$ /NDF: 666885.8/16

Left Out: 648.430 $\pm$ 0.147  $\chi^2$ /NDF: 240265.0/12

Right Out: 683.493 $\pm$ 0.187  $\chi^2$ /NDF: 659356.0/17

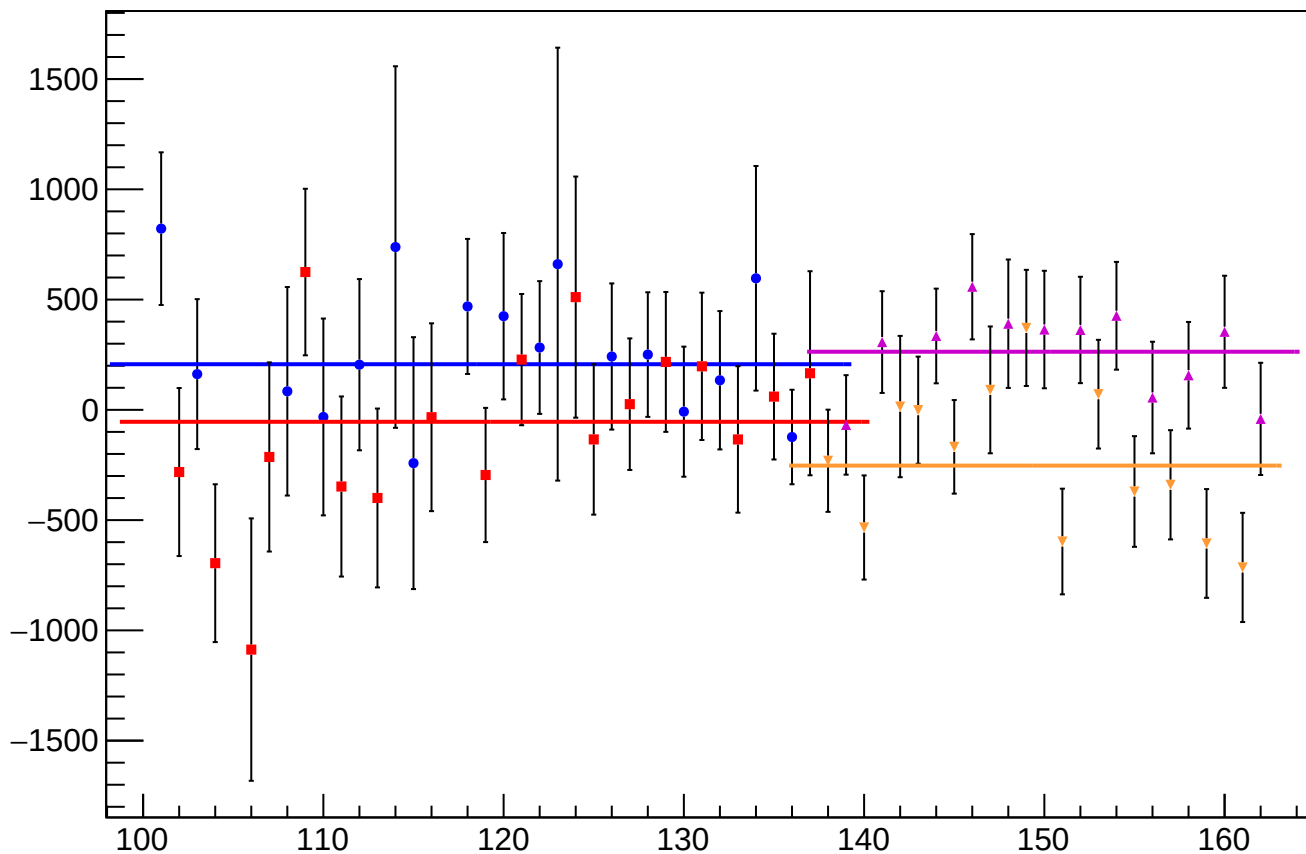
Left In: 641.490 $\pm$ 0.146  $\chi^2$ /NDF: 302921.7/11

+ sign 668.140 $\pm$ 0.118  $\chi^2$ /NDF: 957082.5/29

All: 662.667 $\pm$ 0.082  $\chi^2$ /NDF: 1954822.2/59

- sign 657.439 $\pm$ 0.115  $\chi^2$ /NDF: 993531.8/29

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 206.874 $\pm$ 85.632  $\chi^2$ /NDF: 9.5/16

Left Out: -252.785 $\pm$ 68.875  $\chi^2$ /NDF: 20.1/12

Right Out: -54.185 $\pm$ 85.192  $\chi^2$ /NDF: 15.7/17

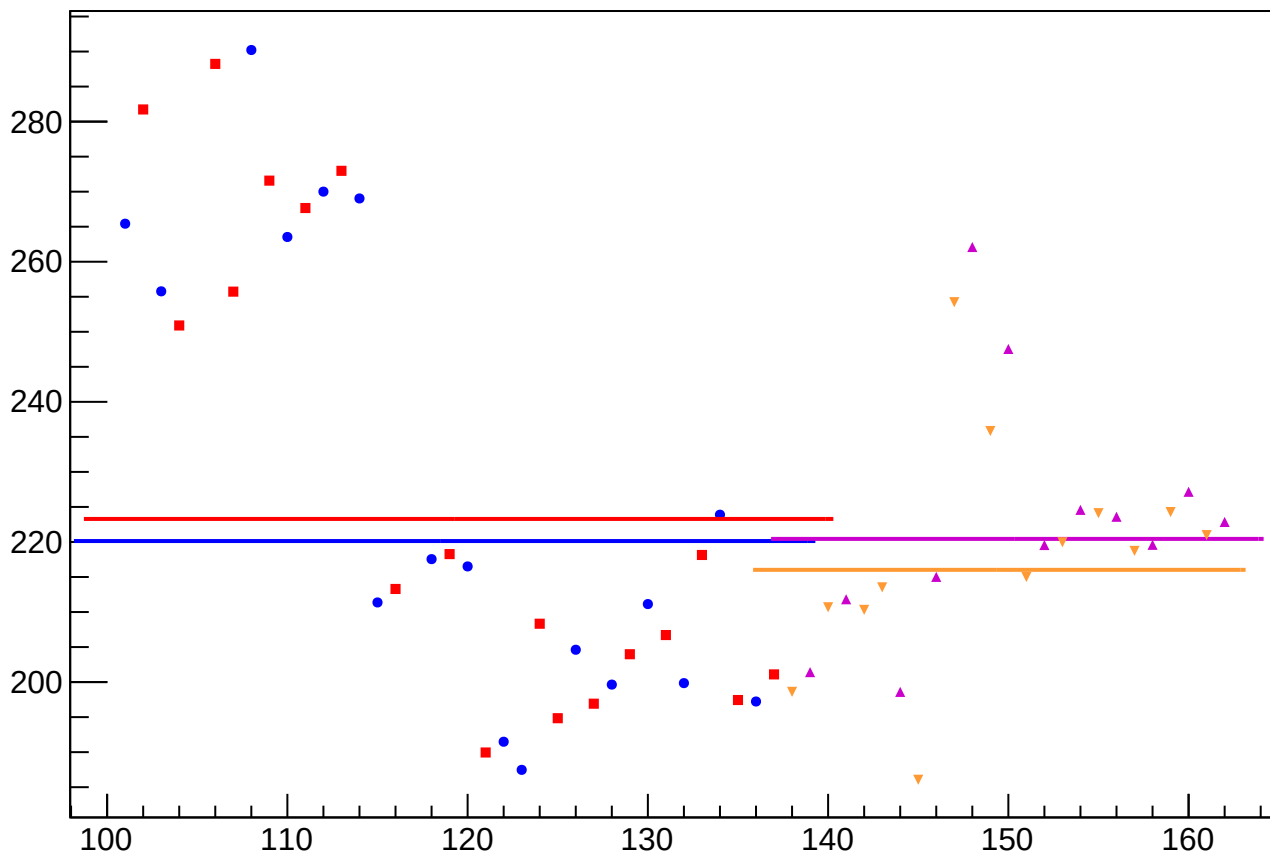
Left In: 263.483 $\pm$ 70.505  $\chi^2$ /NDF: 7.2/11

+ sign -72.229 $\pm$ 53.669  $\chi^2$ /NDF: 47.0/29

All: 29.823 $\pm$ 38.176  $\chi^2$ /NDF: 85.5/59

- sign 134.352 $\pm$ 54.316  $\chi^2$ /NDF: 31.1/29

dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 220.133 $\pm$ 0.061  $\chi^2$ /NDF: 228444.0/16

Left Out: 216.022 $\pm$ 0.049  $\chi^2$ /NDF: 105581.4/12

Right Out: 223.287 $\pm$ 0.060  $\chi^2$ /NDF: 272255.2/17

Left In: 220.439 $\pm$ 0.050  $\chi^2$ /NDF: 102908.6/11

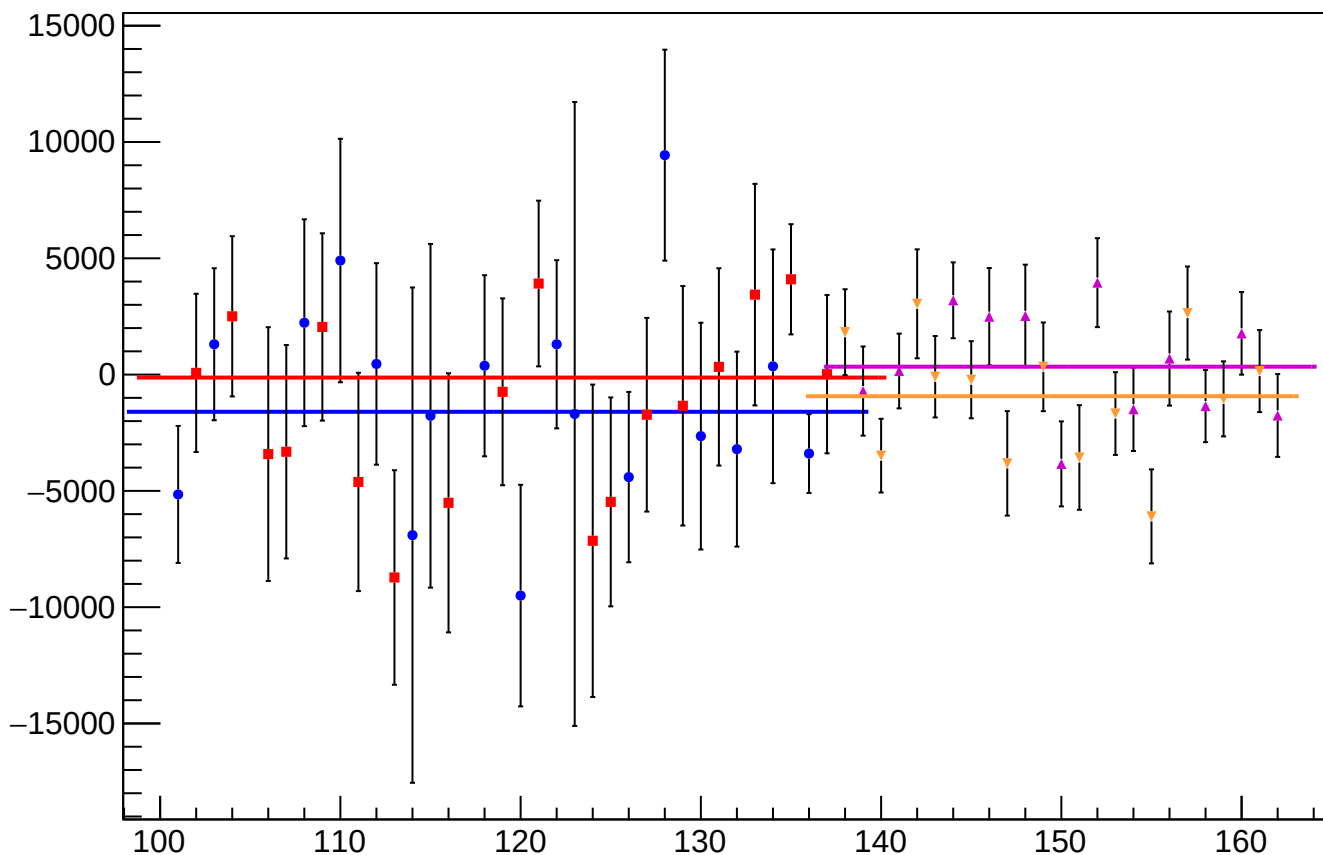
+ sign 217.637 $\pm$ 0.038  $\chi^2$ /NDF: 336823.6/29

All: 219.593 $\pm$ 0.027  $\chi^2$ /NDF: 718693.3/59

- sign 221.597 $\pm$ 0.038  $\chi^2$ /NDF: 376491.2/29



# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In:  $-1599.045 \pm 921.042$   $\chi^2/\text{NDF}$ : 16.6/16

Left Out:  $-930.773 \pm 516.325$   $\chi^2/\text{NDF}$ : 21.9/12

Right Out:  $-127.760 \pm 949.094$   $\chi^2/\text{NDF}$ : 14.8/17

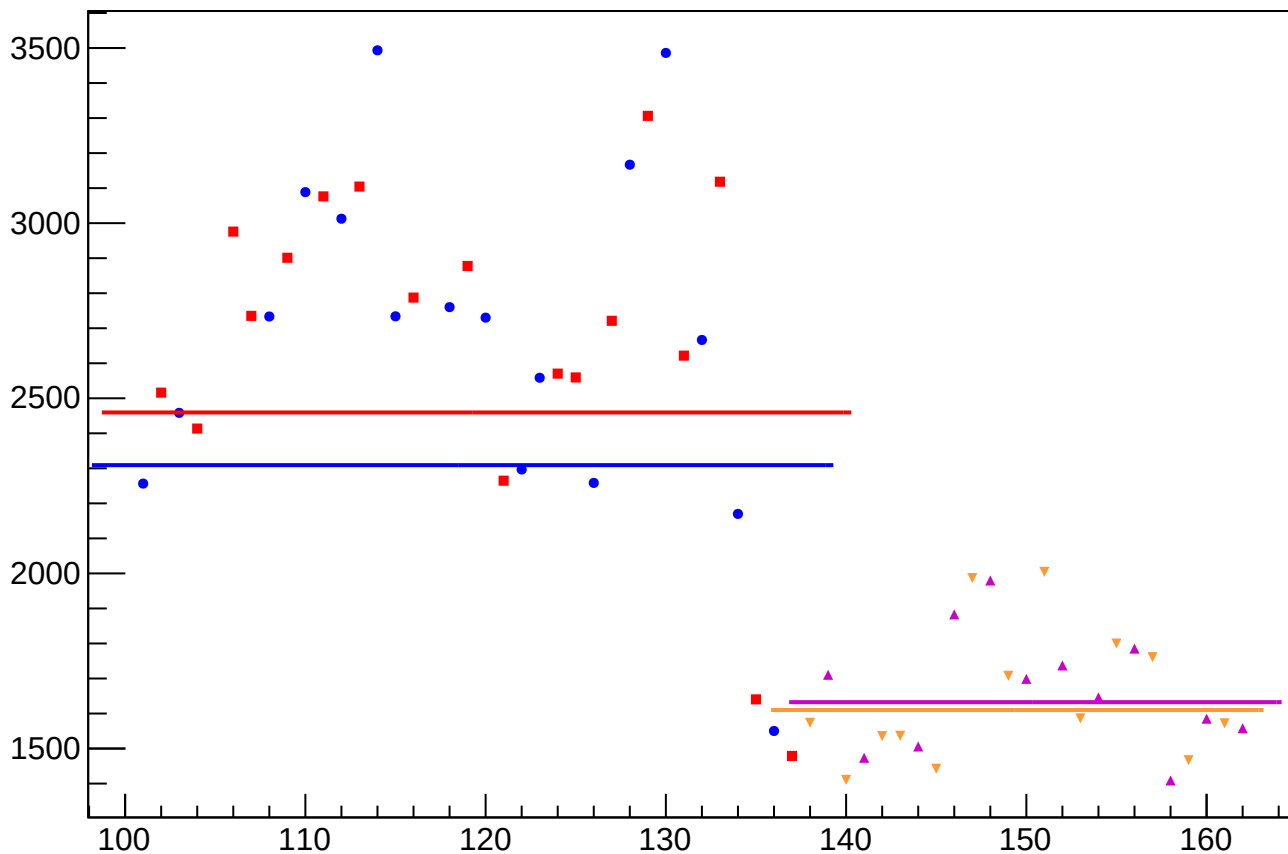
Left In:  $340.294 \pm 523.843$   $\chi^2/\text{NDF}$ : 18.5/11

+ sign  $-1090.567 \pm 450.384$   $\chi^2/\text{NDF}$ : 38.9/29

All:  $-441.761 \pm 321.343$   $\chi^2/\text{NDF}$ : 76.6/59

- sign  $231.002 \pm 458.624$   $\chi^2/\text{NDF}$ : 33.5/29

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2309.132 $\pm$ 0.651  $\chi^2$ /NDF: 800728.2/16

Left Out: 1610.037 $\pm$ 0.365  $\chi^2$ /NDF: 227517.9/12

Right Out: 2459.603 $\pm$ 0.671  $\chi^2$ /NDF: 668179.2/17

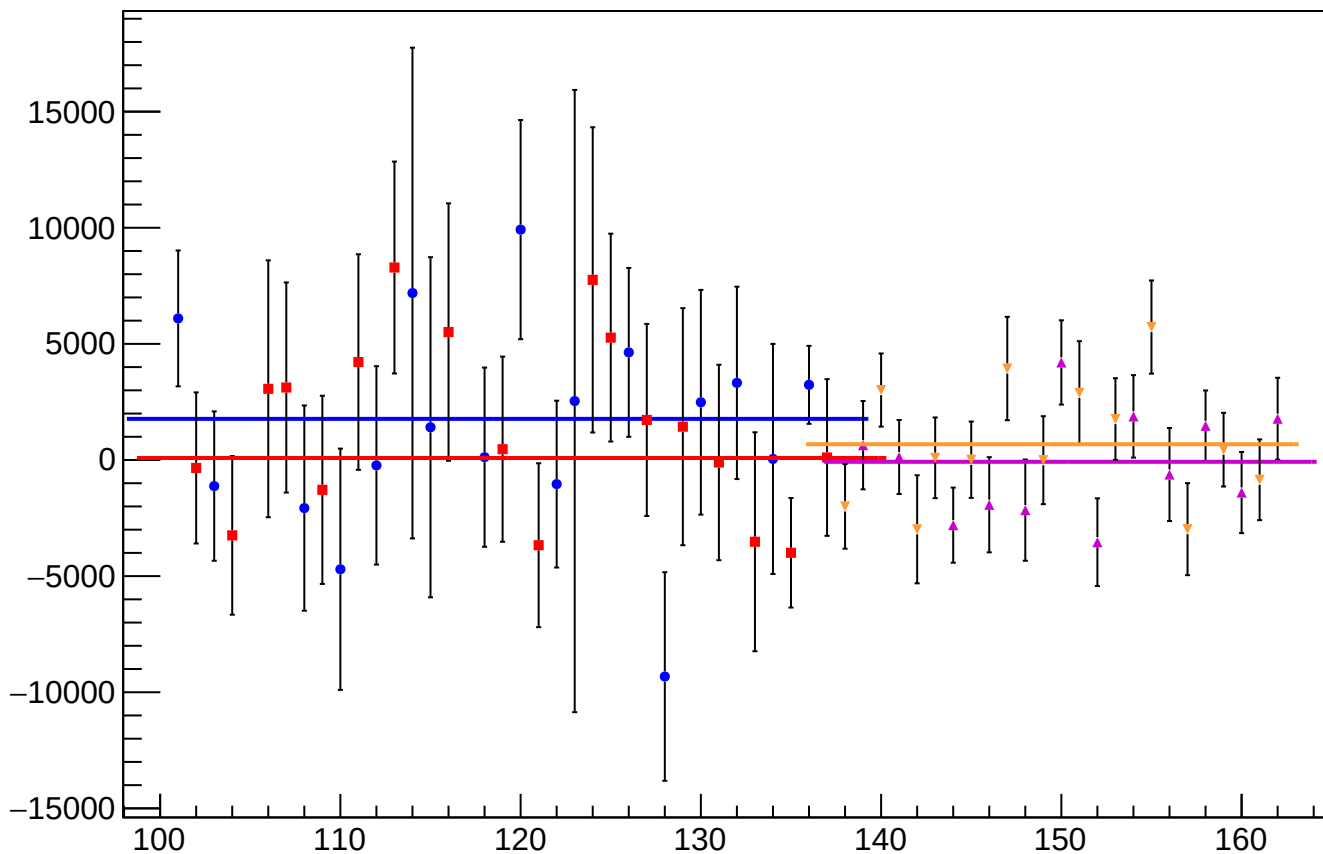
Left In: 1632.510 $\pm$ 0.370  $\chi^2$ /NDF: 179822.4/11

+ sign 1777.201 $\pm$ 0.318  $\chi^2$ /NDF: 1904967.5/29

All: 1800.982 $\pm$ 0.227  $\chi^2$ /NDF: 3928533.6/59

- sign 1825.640 $\pm$ 0.324  $\chi^2$ /NDF: 2012209.1/29

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1771.279 $\pm$ 912.328  $\chi^2$ /NDF: 17.3/16

Left Out: 679.740 $\pm$ 511.076  $\chi^2$ /NDF:21.3/12

Right Out: 86.080 $\pm$ 939.852  $\chi^2$ /NDF: 14.5/17

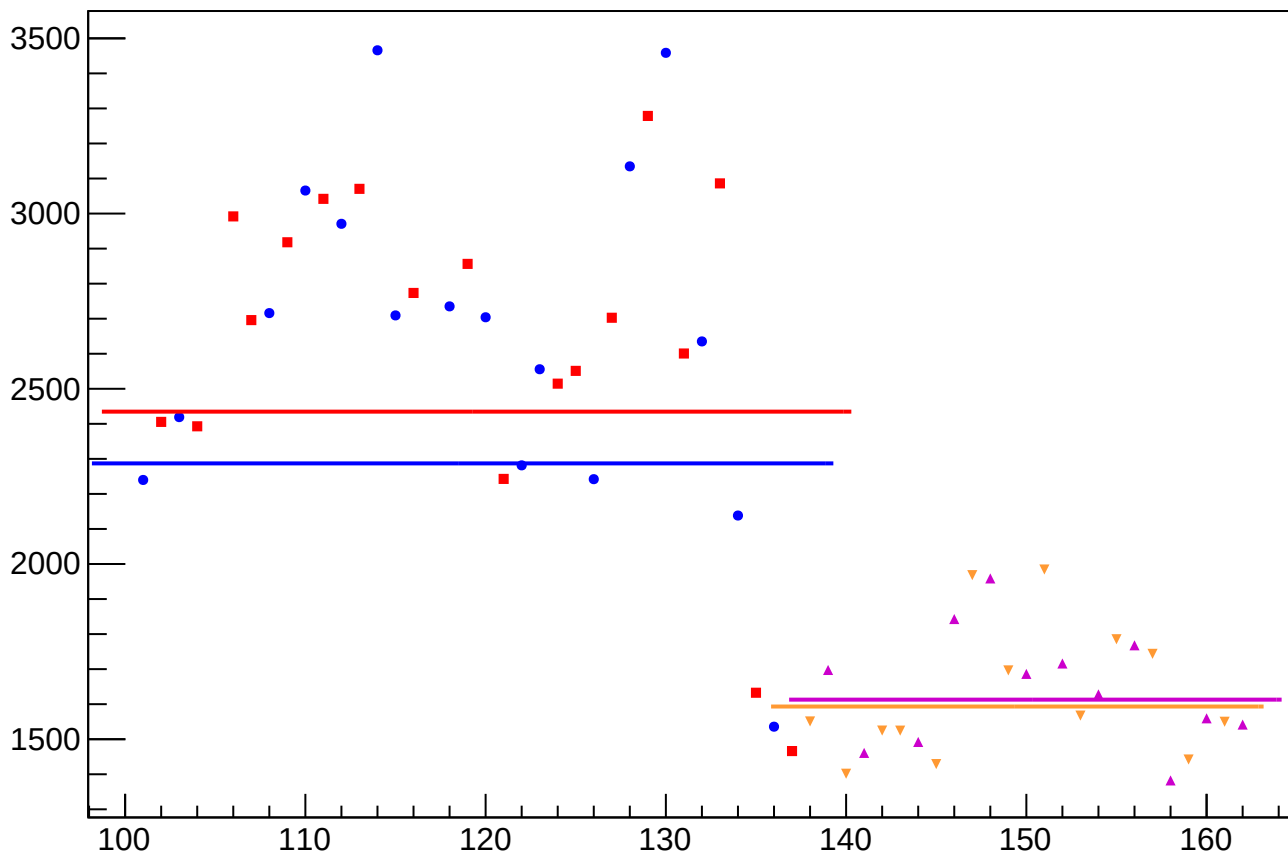
Left In: -77.282 $\pm$ 517.635  $\chi^2$ /NDF:17.6/11

+ sign 940.461 $\pm$ 445.881  $\chi^2$ /NDF: 39.7/29

All: 458.806 $\pm$ 317.915  $\chi^2$ /NDF: 74.2/59

- sign -39.261 $\pm$ 453.414  $\chi^2$ /NDF: 32.1/29

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1593.306+/-0.361  $\chi^2/\text{NDF}$ : 229601.2/12

Right Out: 2434.786+/-0.665  $\chi^2/\text{NDF}$ : 666938.3/17

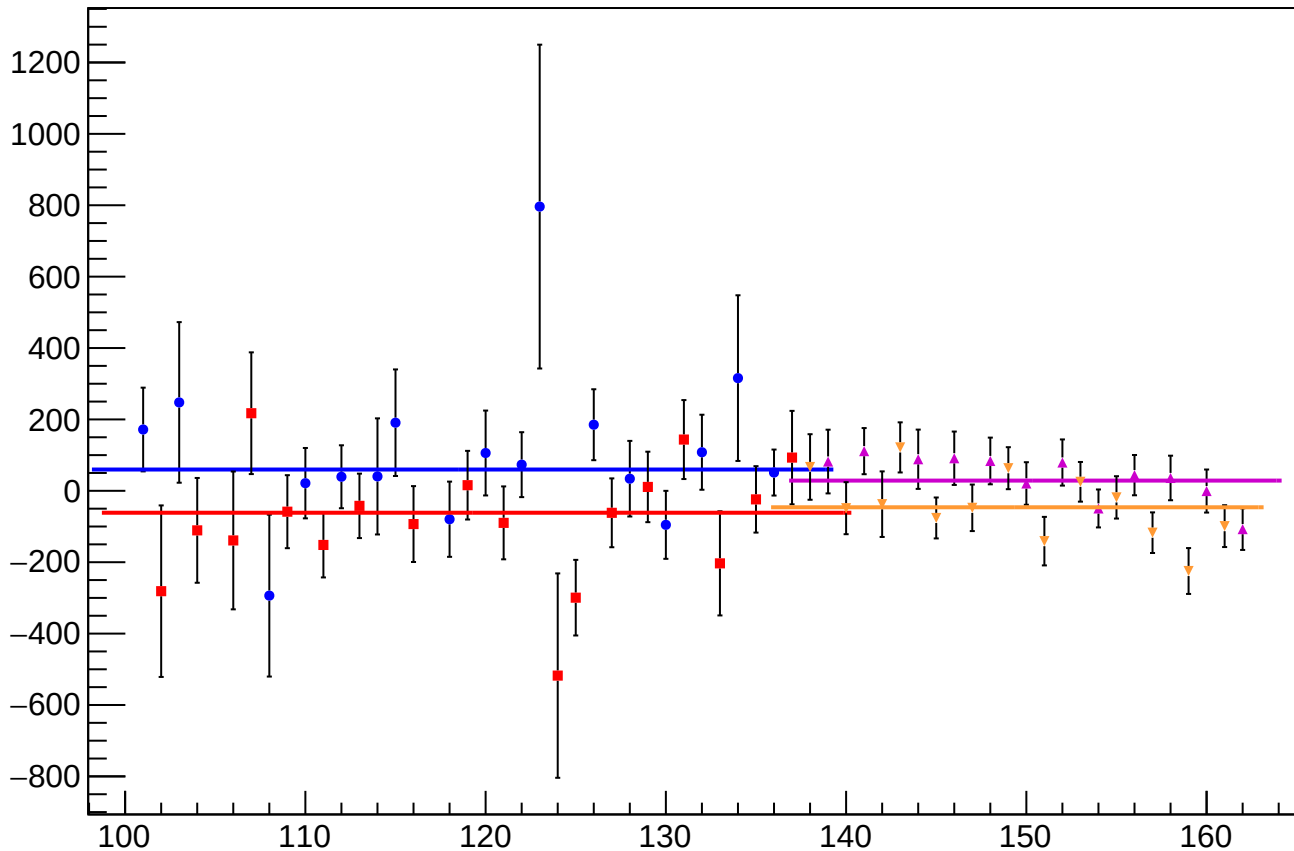
Left In: 1612.939+/-0.366  $\chi^2/\text{NDF}$ : 181148.3/11

+ sign 1759.023+/-0.315  $\chi^2/\text{NDF}$ : 1909356.9/29

All: 1781.241+/-0.225  $\chi^2/\text{NDF}$ : 3940915.6/59

- sign 1804.215+/-0.321  $\chi^2/\text{NDF}$ : 2021458.0/29

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In:  $59.656 \pm 27.080$   $\chi^2/\text{NDF}$ : 15.3/16

Left Out:  $-46.118 \pm 17.892$   $\chi^2/\text{NDF}$ : 24.9/12

Right Out:  $-61.399 \pm 27.011$   $\chi^2/\text{NDF}$ : 19.7/17

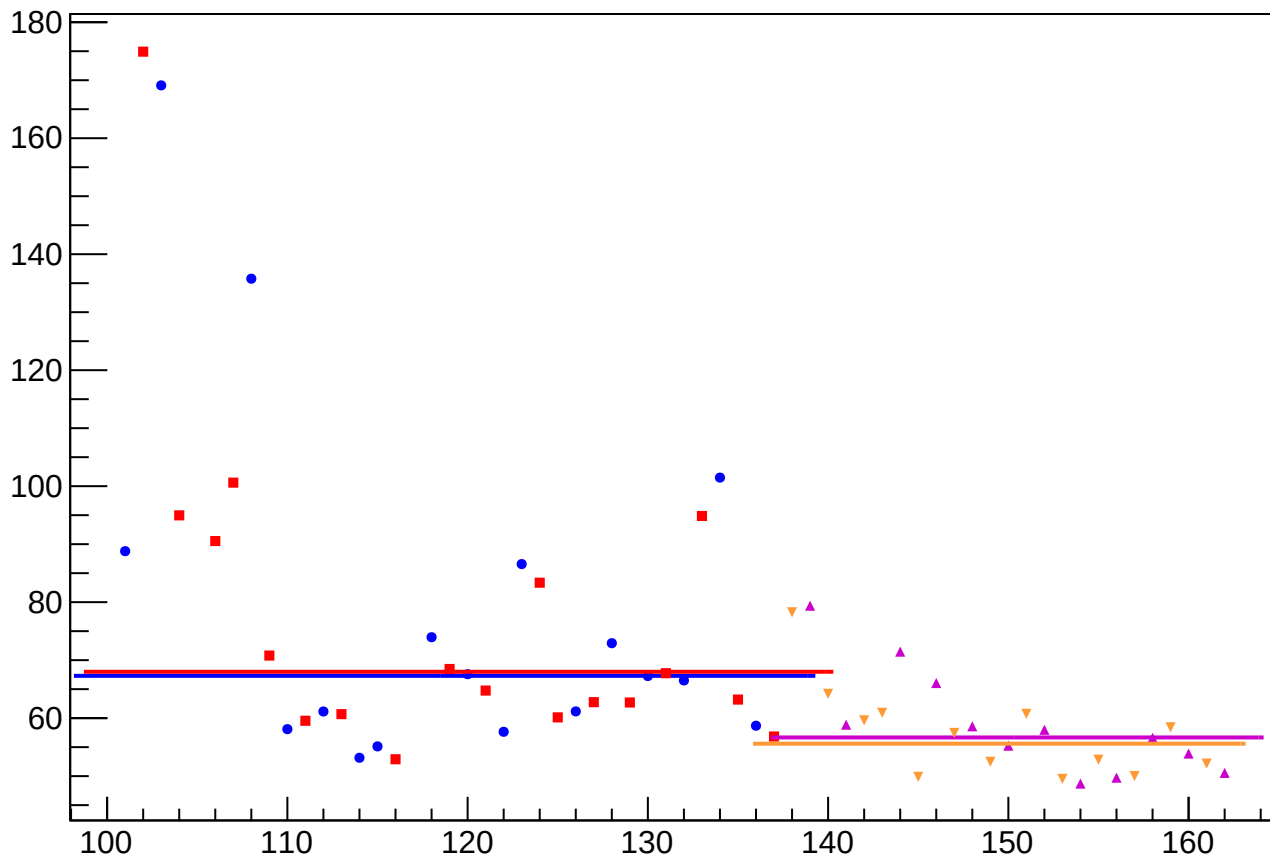
Left In:  $28.653 \pm 18.452$   $\chi^2/\text{NDF}$ : 12.5/11

+ sign  $-13.975 \pm 14.928$   $\chi^2/\text{NDF}$ : 50.8/29

All:  $-7.131 \pm 10.663$   $\chi^2/\text{NDF}$ : 91.0/59

- sign  $-0.001 \pm 15.236$   $\chi^2/\text{NDF}$ : 39.7/29

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In:  $67.297 \pm 0.019$   $\chi^2/\text{NDF}$ : 841352.2/16

Left Out:  $55.594 \pm 0.013$   $\chi^2/\text{NDF}$ : 261638.1/12

Right Out:  $67.998 \pm 0.019$   $\chi^2/\text{NDF}$ : 754329.7/17

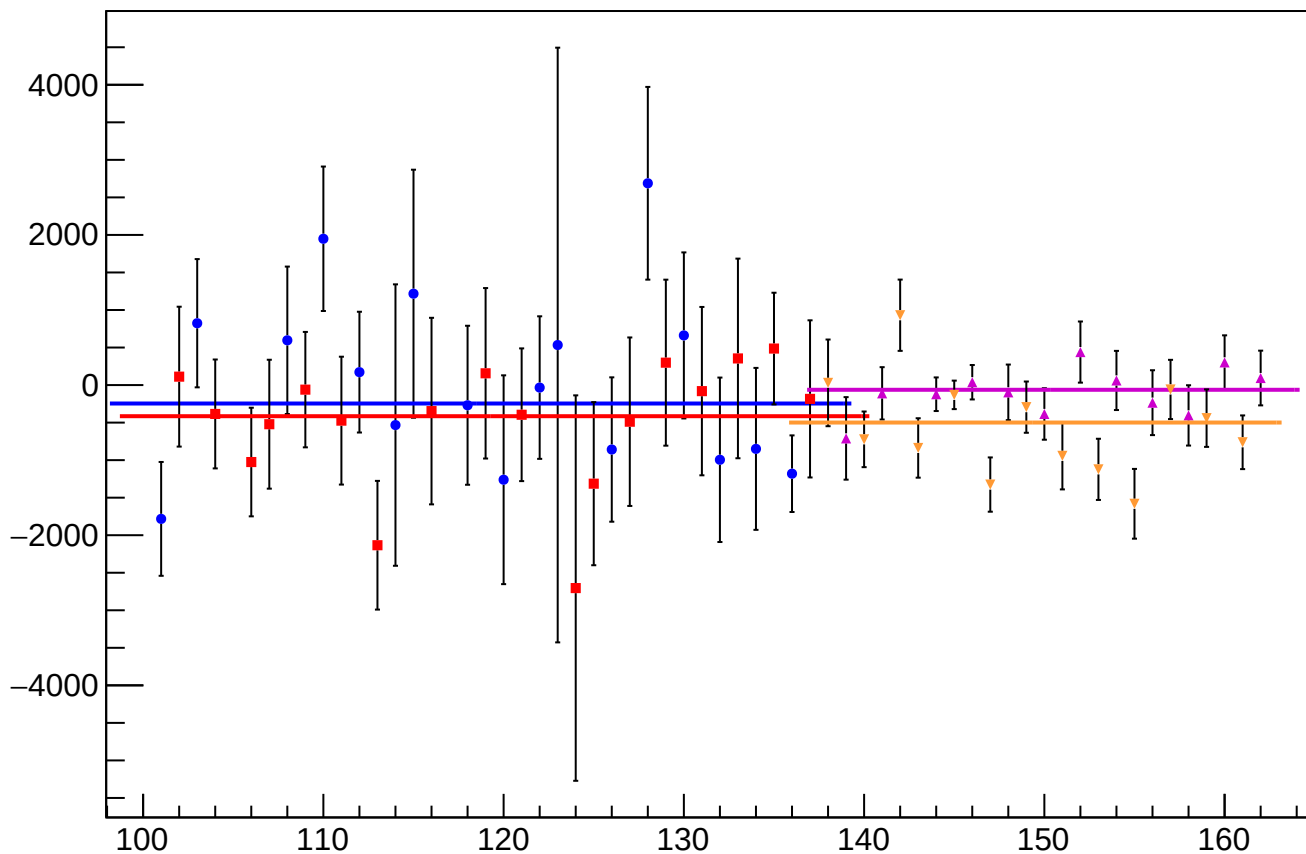
Left In:  $56.672 \pm 0.013$   $\chi^2/\text{NDF}$ : 331803.8/11

+ sign  $59.150 \pm 0.011$   $\chi^2/\text{NDF}$ : 1363011.0/29

All:  $59.702 \pm 0.008$   $\chi^2/\text{NDF}$ : 2694490.3/59

- sign  $60.276 \pm 0.011$   $\chi^2/\text{NDF}$ : 1325912.9/29

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In:  $-245.631 \pm 235.404$   $\chi^2/\text{NDF}$ : 23.8/16

Left Out:  $-499.104 \pm 99.102$   $\chi^2/\text{NDF}$ : 30.9/12

Right Out:  $-414.725 \pm 222.788$   $\chi^2/\text{NDF}$ : 9.4/17

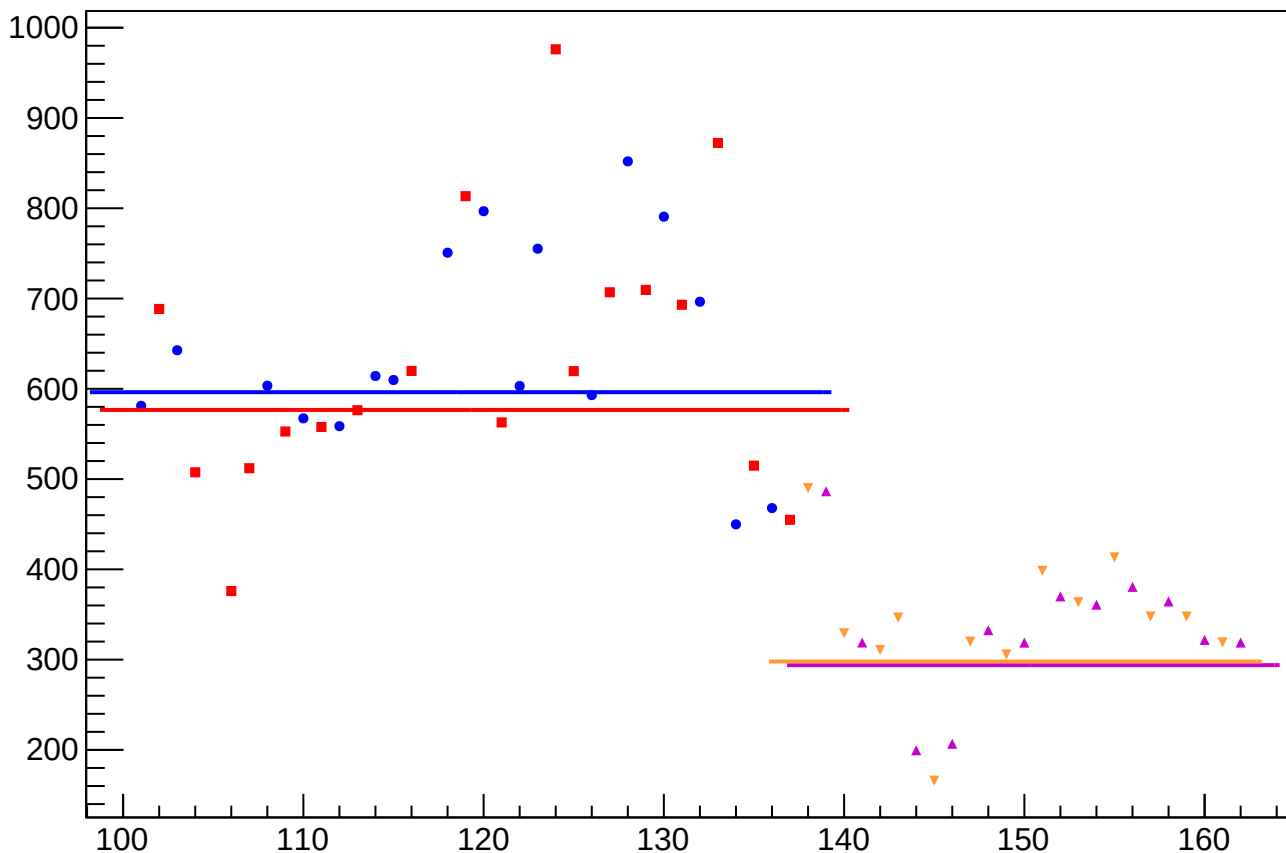
Left In:  $-62.797 \pm 97.331$   $\chi^2/\text{NDF}$ : 6.3/11

+ sign  $-460.944 \pm 91.338$   $\chi^2/\text{NDF}$ : 55.7/29

All:  $-286.009 \pm 63.813$   $\chi^2/\text{NDF}$ : 80.6/59

- sign  $-119.201 \pm 89.191$   $\chi^2/\text{NDF}$ : 17.7/29

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 596.246 $\pm$ 0.166  $\chi^2$ /NDF: 422153.3/16

Left Out: 297.904 $\pm$ 0.070  $\chi^2$ /NDF: 1592510.7/12

Right Out: 576.614 $\pm$ 0.158  $\chi^2$ /NDF: 573658.2/17

Left In: 293.904 $\pm$ 0.069  $\chi^2$ /NDF: 1223429.5/11

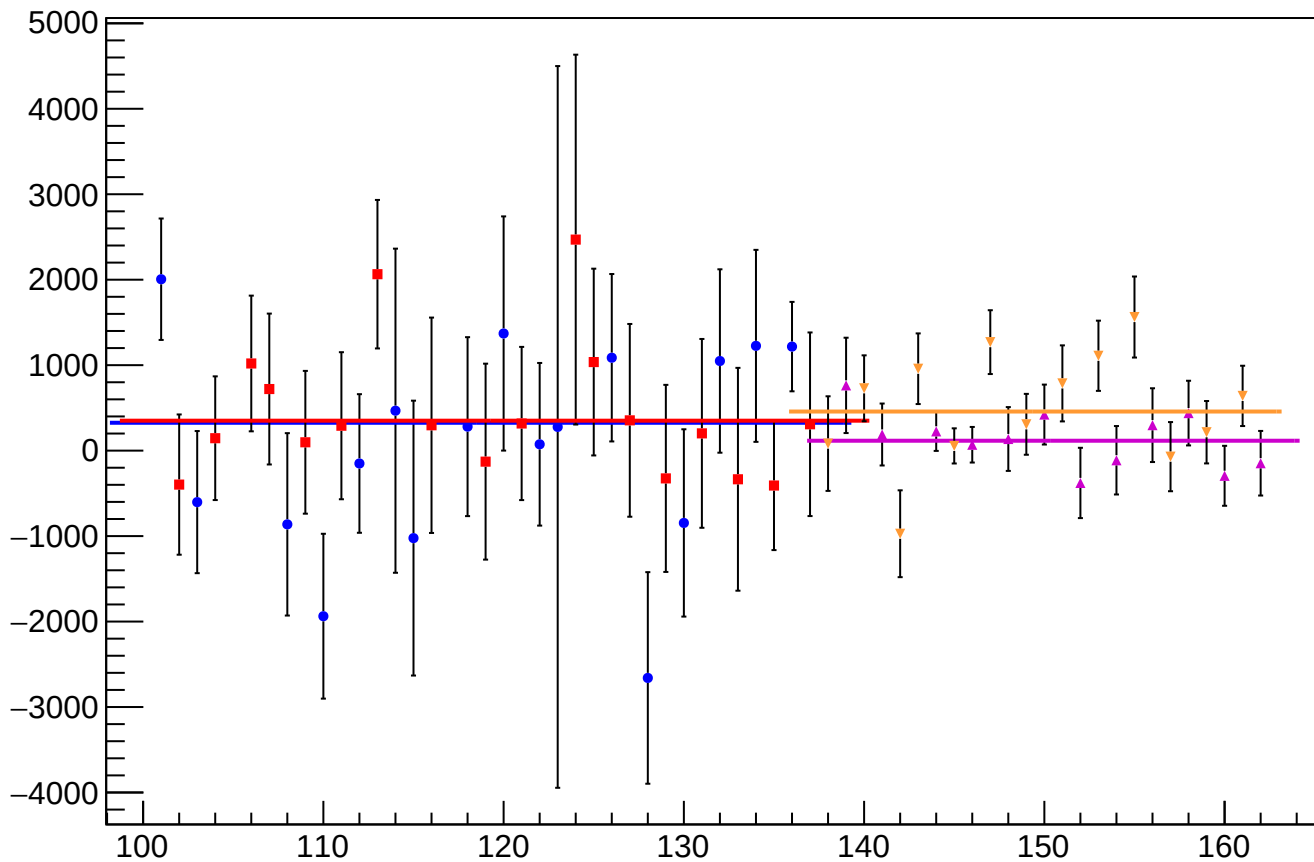
+ sign 342.818 $\pm$ 0.065  $\chi^2$ /NDF: 4743453.3/29

All: 340.974 $\pm$ 0.045  $\chi^2$ /NDF: 9246514.7/59

- sign 339.214 $\pm$ 0.063  $\chi^2$ /NDF: 4501467.5/29



# asym\_sam\_37\_dd\_mean vs Slug



Right In:  $326.077 \pm 235.599$   $\chi^2/\text{NDF}$ : 26.9/16

Left Out:  $457.586 \pm 102.338$   $\chi^2/\text{NDF}$ : 30.0/12

Right Out:  $350.392 \pm 225.254$   $\chi^2/\text{NDF}$ : 9.0/17

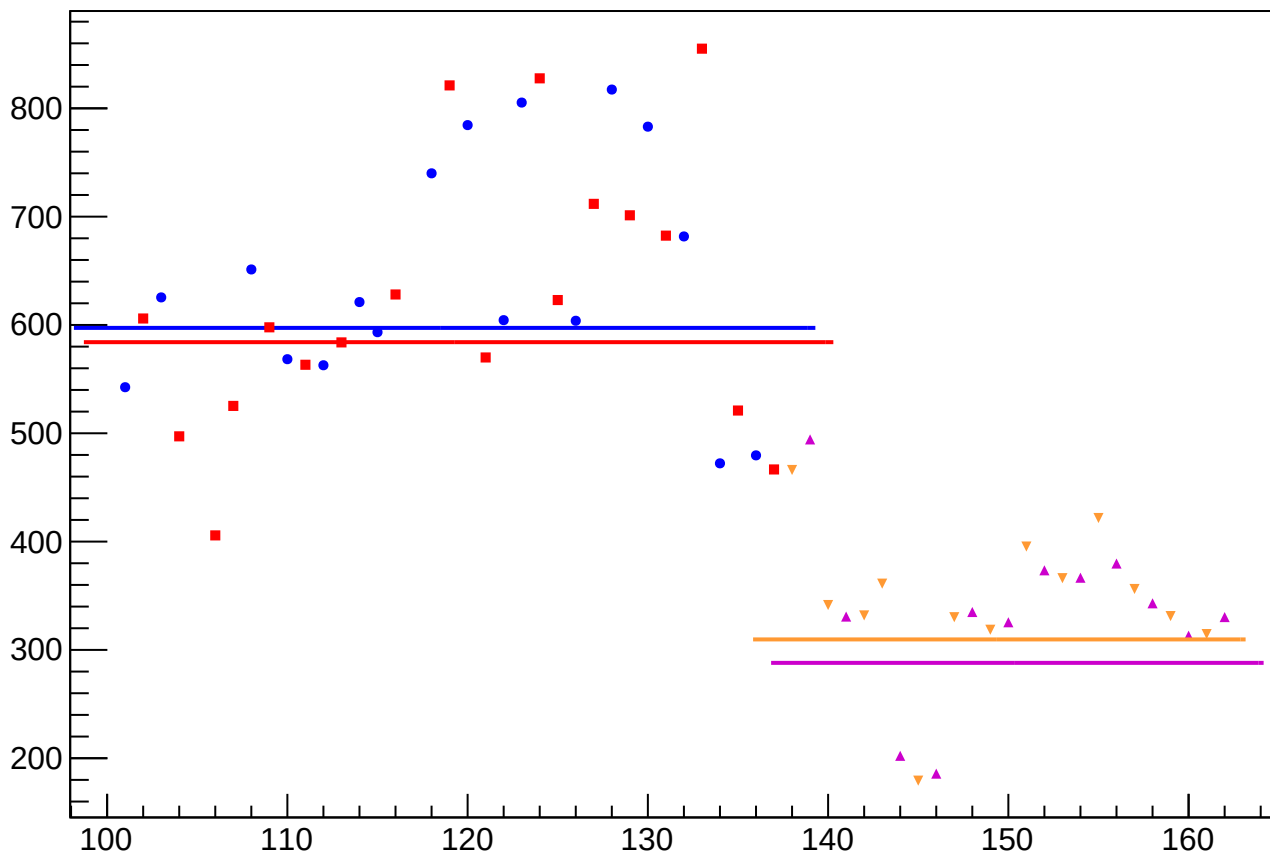
Left In:  $115.828 \pm 96.232$   $\chi^2/\text{NDF}$ : 7.0/11

+ sign  $436.711 \pm 93.865$   $\chi^2/\text{NDF}$ : 57.1/29

All:  $285.993 \pm 64.390$   $\chi^2/\text{NDF}$ : 78.9/59

- sign  $152.031 \pm 88.494$   $\chi^2/\text{NDF}$ : 16.9/29

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 597.298 $\pm$ 0.167  $\chi^2$ /NDF: 363658.5/16

Left Out: 309.680 $\pm$ 0.072  $\chi^2$ /NDF:1276924.3/12

Right Out: 584.112 $\pm$ 0.159  $\chi^2$ /NDF: 446882.7/17

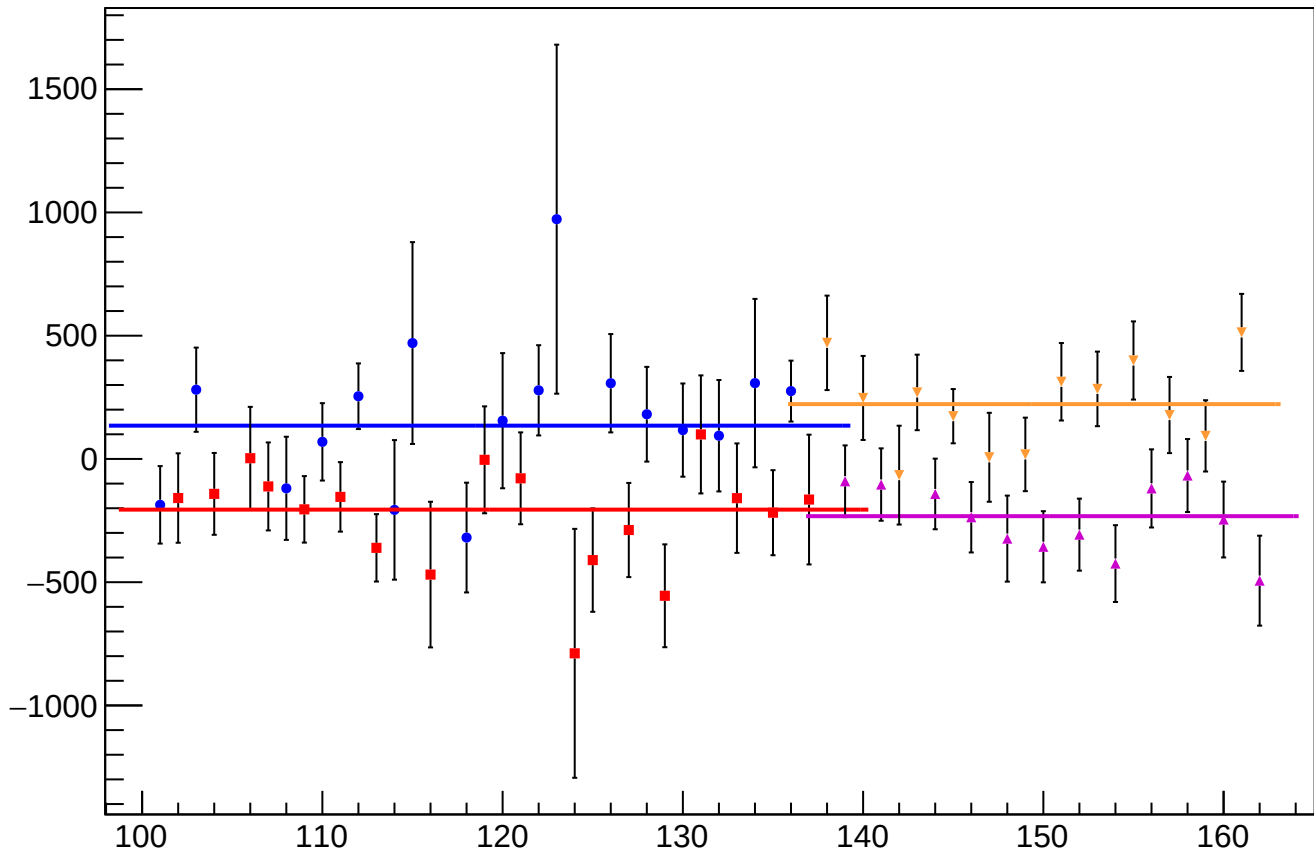
Left In: 288.041 $\pm$ 0.068  $\chi^2$ /NDF:1451561.0/11

+ sign 355.334 $\pm$ 0.066  $\chi^2$ /NDF: 4148122.2/29

All: 343.900 $\pm$ 0.046  $\chi^2$ /NDF: 9024560.7/59

- sign 333.737 $\pm$ 0.063  $\chi^2$ /NDF: 4820382.4/29

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In:  $135.029 \pm 47.025$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $222.344 \pm 42.955$   $\chi^2/\text{NDF}$ : 13.5/12

Right Out:  $-205.590 \pm 44.536$   $\chi^2/\text{NDF}$ : 12.0/17

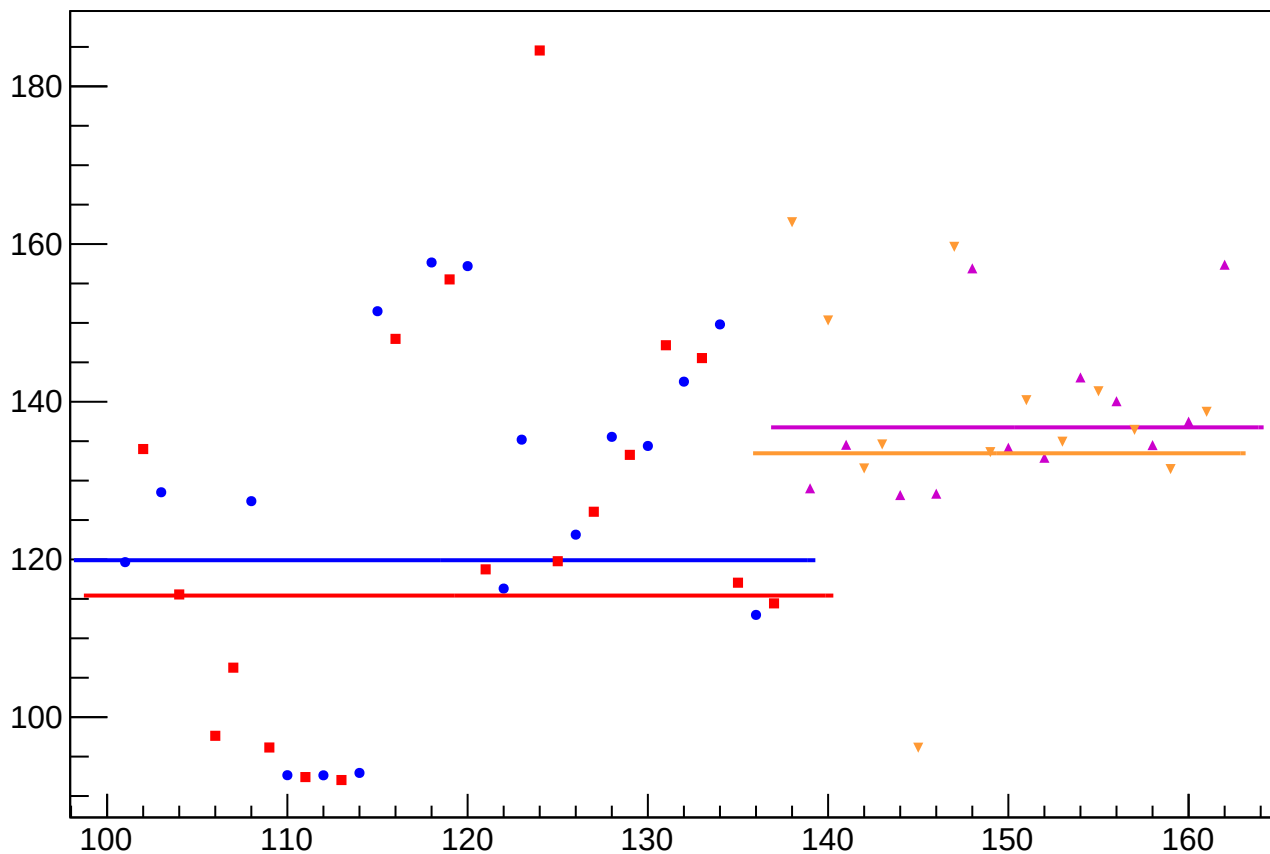
Left In:  $-232.169 \pm 43.940$   $\chi^2/\text{NDF}$ : 8.7/11

+ sign  $182.627 \pm 31.715$   $\chi^2/\text{NDF}$ : 33.4/29

All:  $-20.999 \pm 22.270$   $\chi^2/\text{NDF}$ : 135.6/59

- sign  $-219.059 \pm 31.279$   $\chi^2/\text{NDF}$ : 20.9/29

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 133.466 $\pm$ 0.030  $\chi^2$ /NDF: 351022.3/12

Right Out: 115.422 $\pm$ 0.031  $\chi^2$ /NDF: 418100.5/17

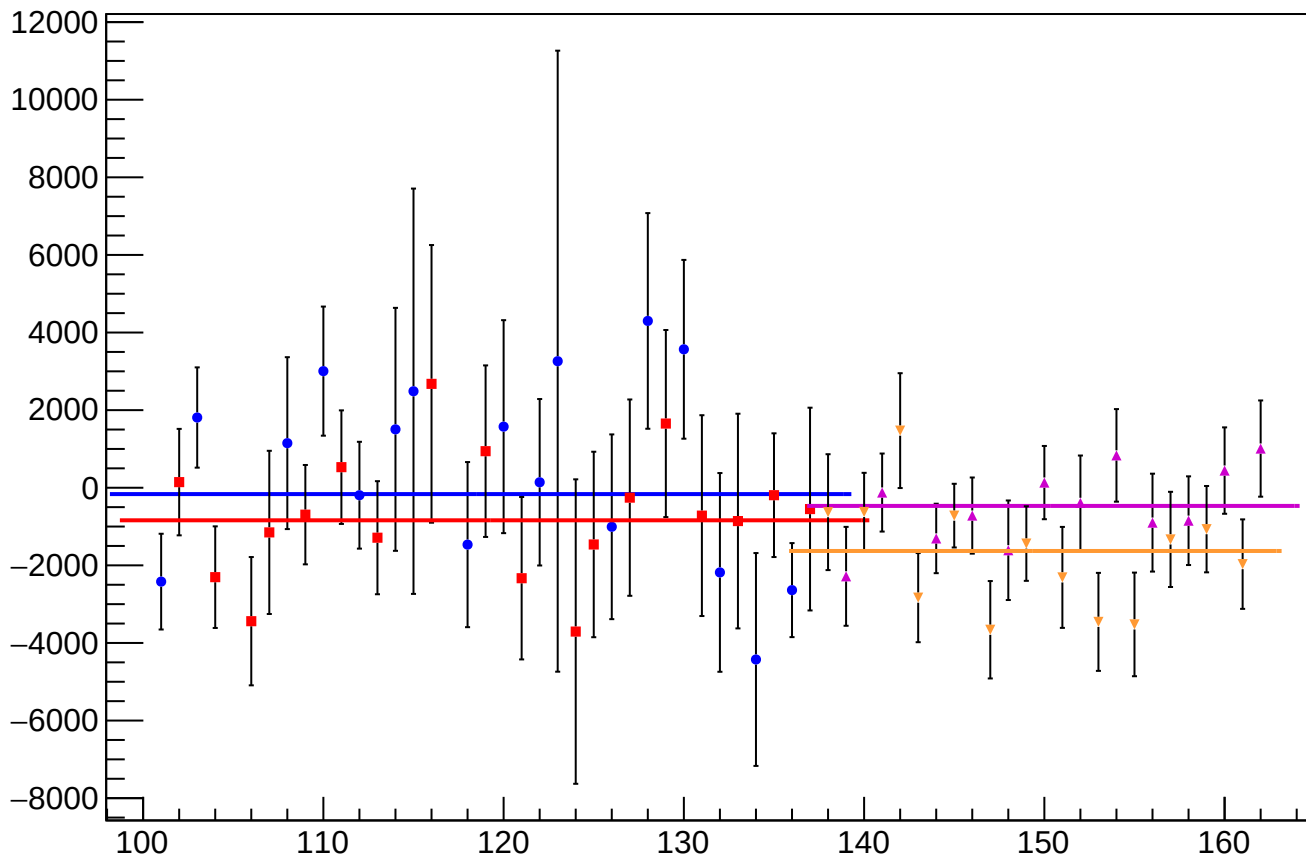
Left In: 136.755 $\pm$ 0.031  $\chi^2$ /NDF: 79183.9/11

+ sign 127.297 $\pm$ 0.022  $\chi^2$ /NDF: 787222.2/29

All: 126.757 $\pm$ 0.016  $\chi^2$ /NDF: 1518184.2/59

- sign 126.232 $\pm$ 0.022  $\chi^2$ /NDF: 729819.6/29

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In: -163.538 $\pm$ 469.592  $\chi^2/\text{NDF}$ : 23.7/16

Left Out: -1629.540 $\pm$ 318.601  $\chi^2/\text{NDF}$ : 15.6/12

Right Out: -839.187 $\pm$ 440.476  $\chi^2/\text{NDF}$ : 9.3/17

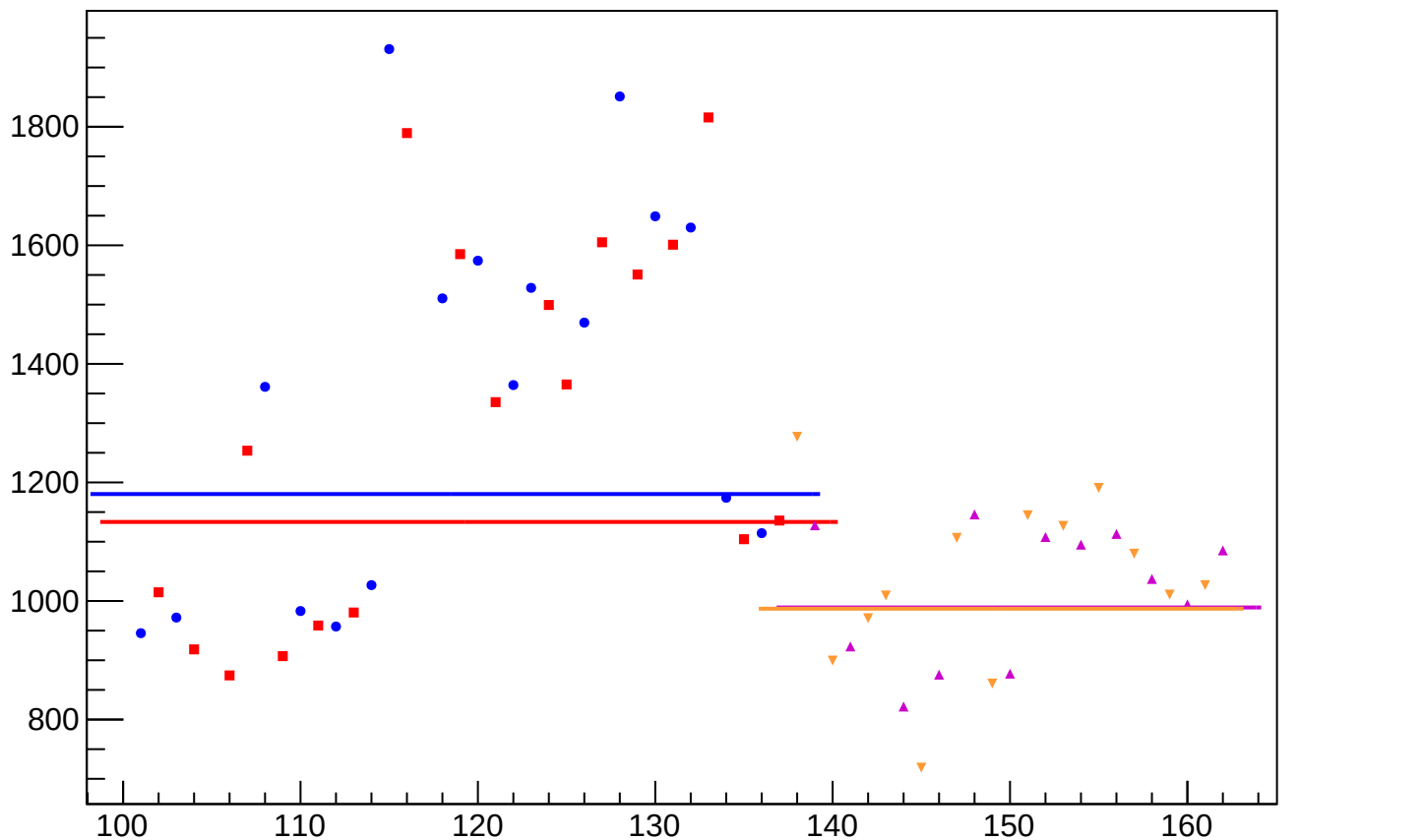
Left In: -468.167 $\pm$ 318.657  $\chi^2/\text{NDF}$ : 7.8/11

+ sign -1167.433 $\pm$ 263.648  $\chi^2/\text{NDF}$ : 46.0/29

All: -875.541 $\pm$ 184.463  $\chi^2/\text{NDF}$ : 65.9/59

- sign -595.633 $\pm$ 258.179  $\chi^2/\text{NDF}$ : 17.5/29

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1180.403 $\pm$ 0.332  $\chi^2$ /NDF: 668845.5/16

Left Out: 987.018 $\pm$ 0.225  $\chi^2$ /NDF: 472818.8/12

Right Out: 1133.347 $\pm$ 0.311  $\chi^2$ /NDF: 760395.8/17

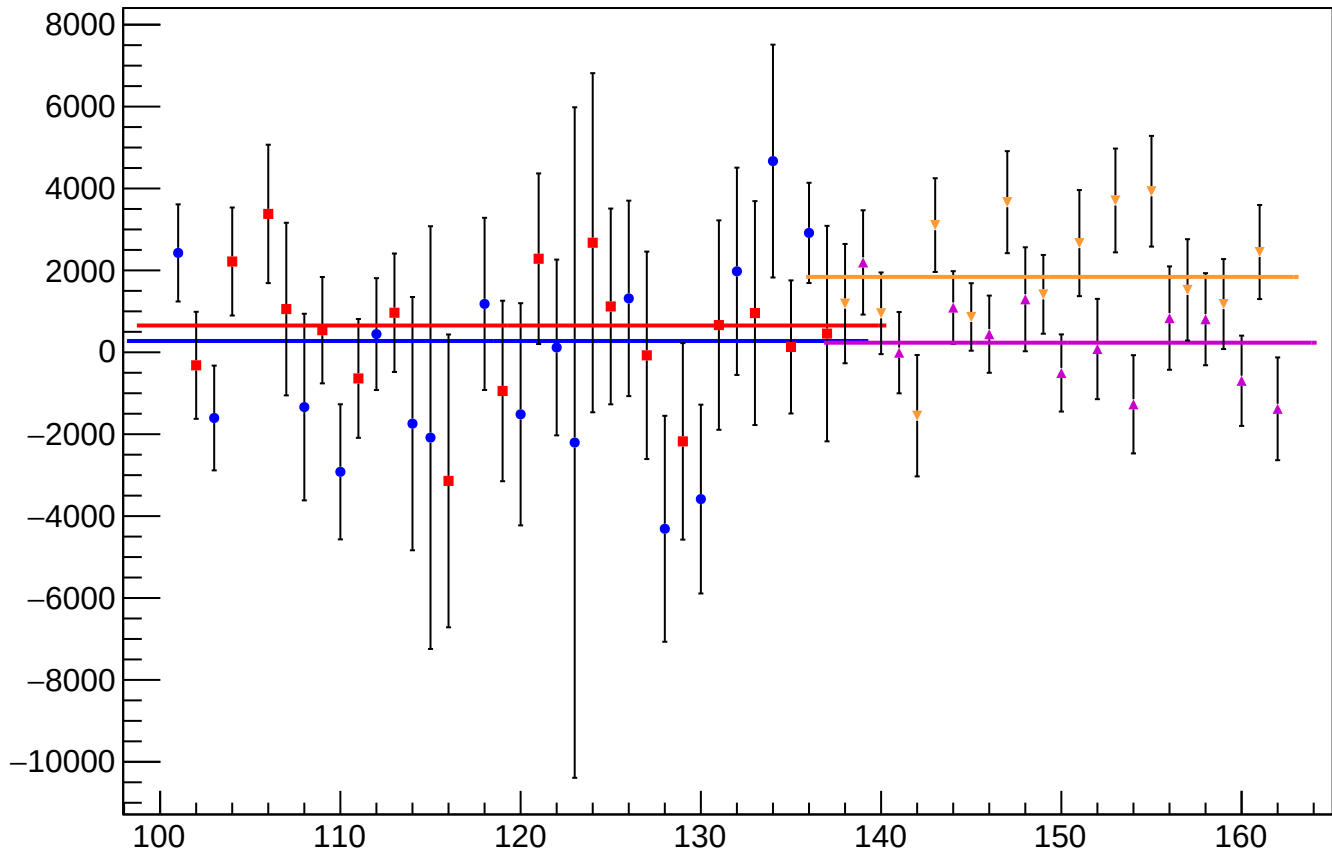
Left In: 989.078 $\pm$ 0.225  $\chi^2$ /NDF: 256336.0/11

+ sign 1047.976 $\pm$ 0.186  $\chi^2$ /NDF: 1373931.4/29

All: 1043.212 $\pm$ 0.130  $\chi^2$ /NDF: 2532782.8/59

- sign 1038.643 $\pm$ 0.183  $\chi^2$ /NDF: 1157572.0/29

# asym\_sam\_48\_dd\_mean vs Slug



Right In:  $276.422 \pm 466.424$   $\chi^2/\text{NDF}$ : 24.3/16

Left Out:  $1841.408 \pm 317.883$   $\chi^2/\text{NDF}$ : 16.9/12

Right Out:  $654.406 \pm 439.824$   $\chi^2/\text{NDF}$ : 9.6/17

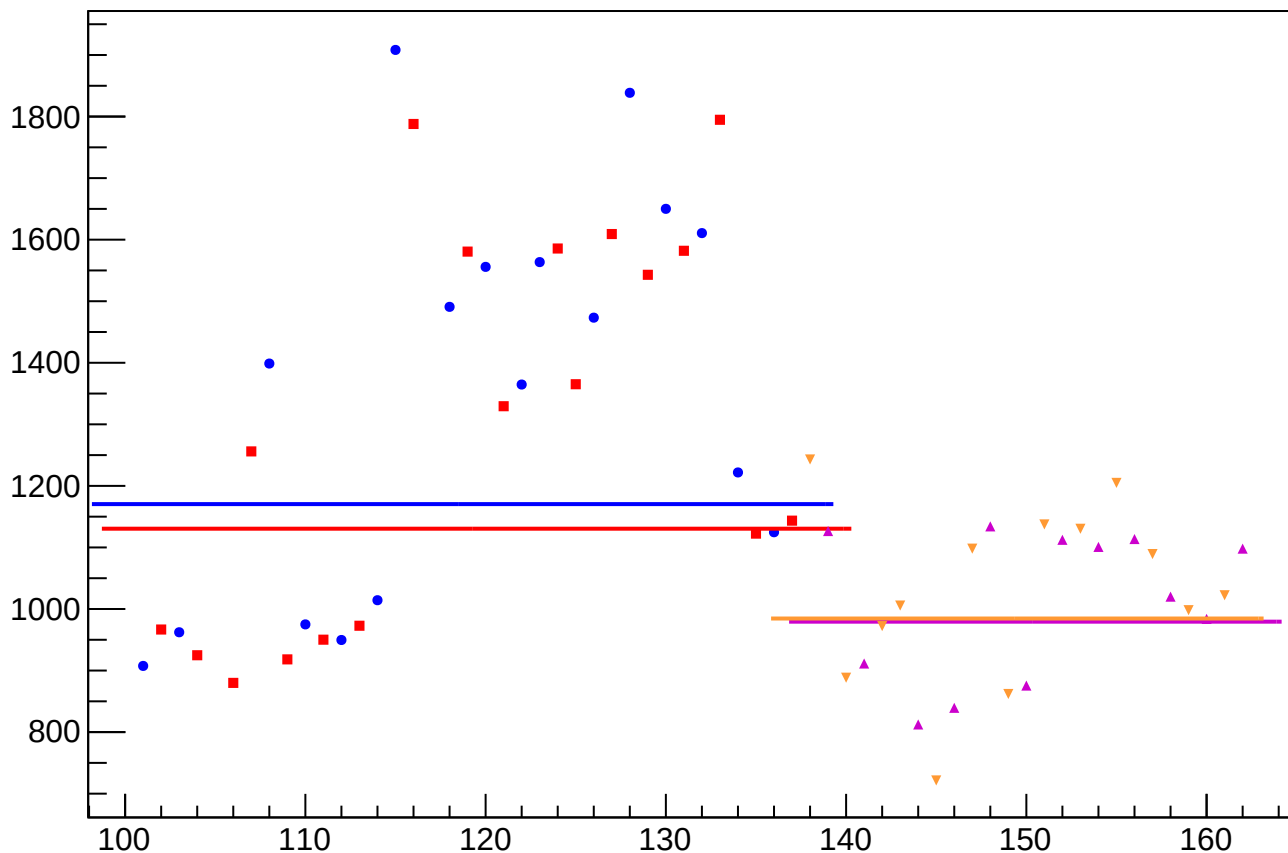
Left In:  $234.702 \pm 316.052$   $\chi^2/\text{NDF}$ : 9.2/11

+ sign  $1345.046 \pm 262.679$   $\chi^2/\text{NDF}$ : 48.9/29

All:  $850.122 \pm 183.577$   $\chi^2/\text{NDF}$ : 75.2/59

- sign  $377.624 \pm 256.659$   $\chi^2/\text{NDF}$ : 19.3/29

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1170.404+/-0.330  $\chi^2/\text{NDF}$ : 705486.8/16

Left Out: 984.526+/-0.225  $\chi^2/\text{NDF}$ : 459389.1/12

Right Out: 1130.456+/-0.311  $\chi^2/\text{NDF}$ : 763027.2/17

Left In: 979.412+/-0.223  $\chi^2/\text{NDF}$ : 292239.5/11

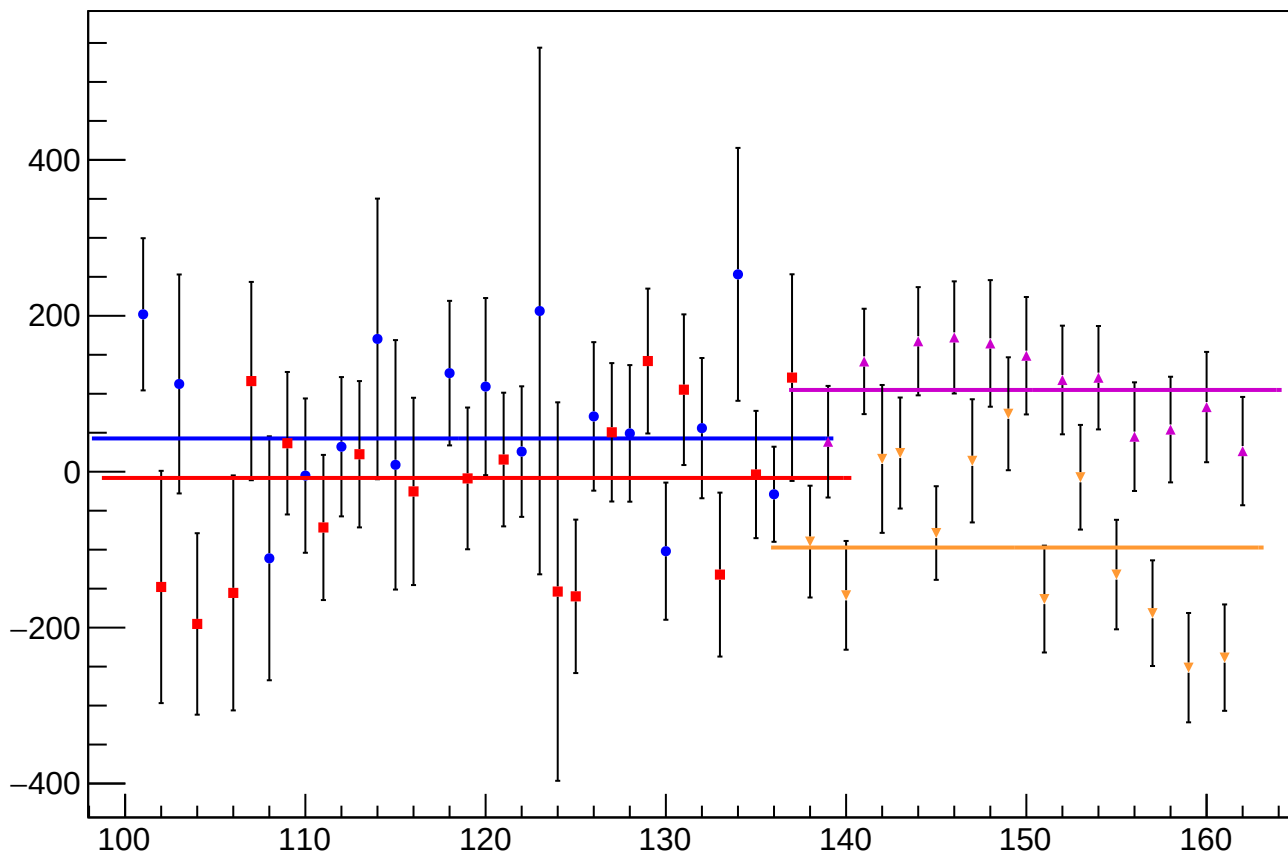
+ sign 1043.481+/-0.186  $\chi^2/\text{NDF}$ : 1381764.7/29

All: 1037.018+/-0.130  $\chi^2/\text{NDF}$ : 2594949.6/59

- sign 1030.847+/-0.181  $\chi^2/\text{NDF}$ : 1210818.3/29



# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 42.674 $\pm$ 24.701  $\chi^2$ /NDF: 12.0/16

Left Out: -97.260 $\pm$ 19.576  $\chi^2$ /NDF: 26.4/12

Right Out: -7.995 $\pm$ 24.492  $\chi^2$ /NDF: 15.8/17

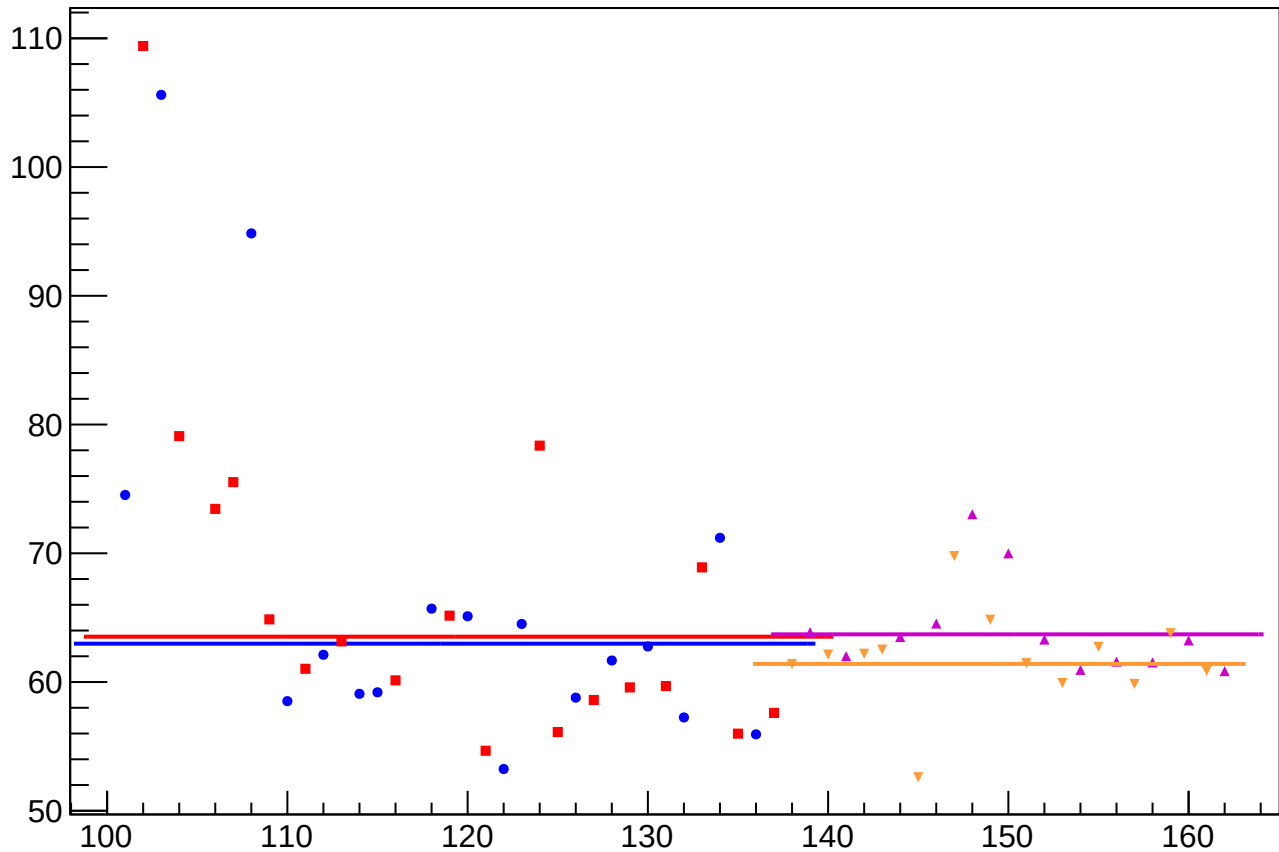
Left In: 104.888 $\pm$ 20.385  $\chi^2$ /NDF: 6.5/11

+ sign -43.275 $\pm$ 15.342  $\chi^2$ /NDF: 58.1/29

All: 6.638 $\pm$ 10.962  $\chi^2$ /NDF: 114.6/59

- sign 58.693 $\pm$ 15.668  $\chi^2$ /NDF: 34.8/29

# 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:  $61.405 \pm 0.014$   $\chi^2/\text{NDF}$ : 75971.5/12

Right Out:  $63.522 \pm 0.017$   $\chi^2/\text{NDF}$ : 335430.9/17

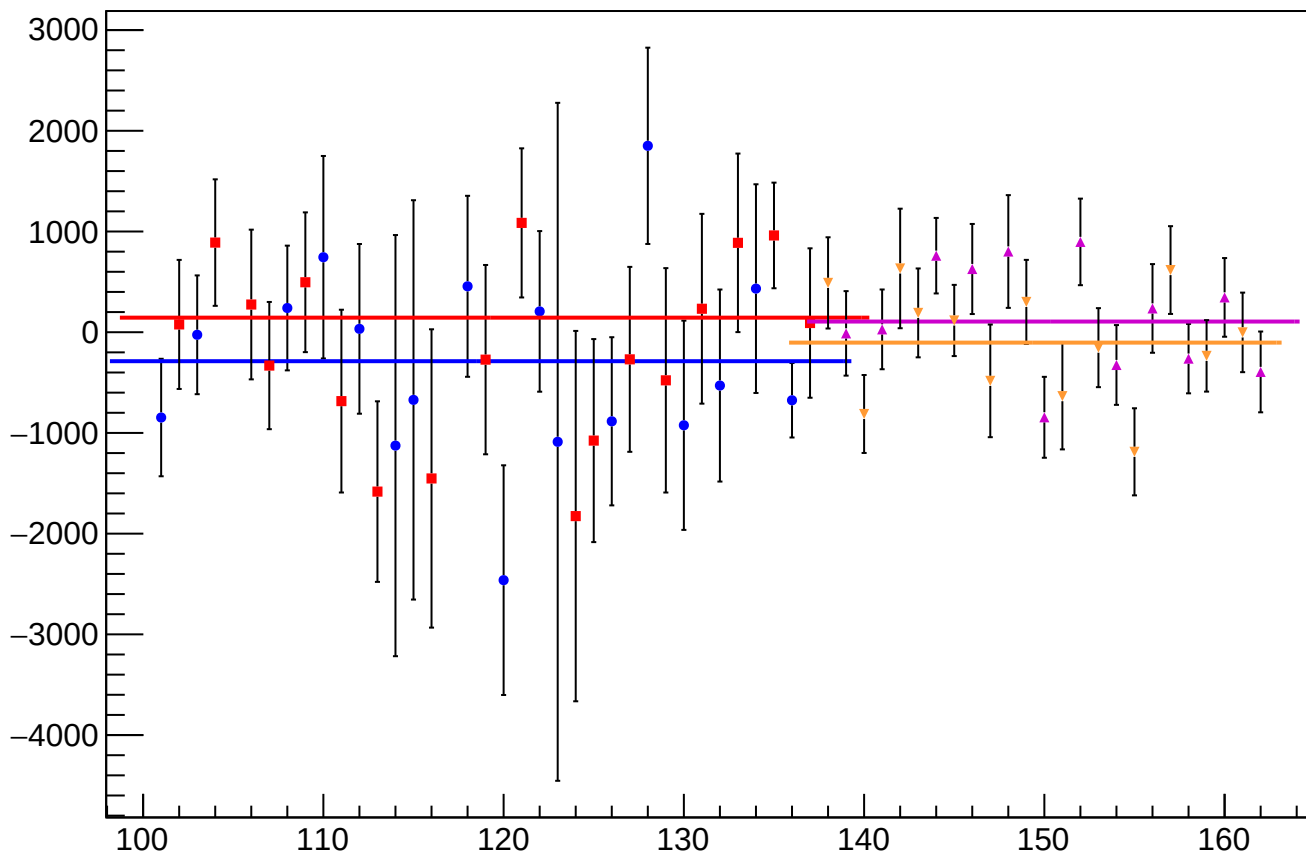
Left In:  $63.705 \pm 0.014$   $\chi^2/\text{NDF}$ : 52846.1/11

+ sign  $62.012 \pm 0.011$   $\chi^2/\text{NDF}$ : 456232.1/29

All:  $62.804 \pm 0.008$   $\chi^2/\text{NDF}$ : 855456.7/59

- sign  $63.630 \pm 0.011$   $\chi^2/\text{NDF}$ : 388342.6/29

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In: -287.682 $\pm$ 189.888  $\chi^2$ /NDF: 15.4/16

Left Out: -103.235 $\pm$ 118.261  $\chi^2$ /NDF: 19.1/12

Right Out: 144.624 $\pm$ 187.777  $\chi^2$ /NDF: 16.1/17

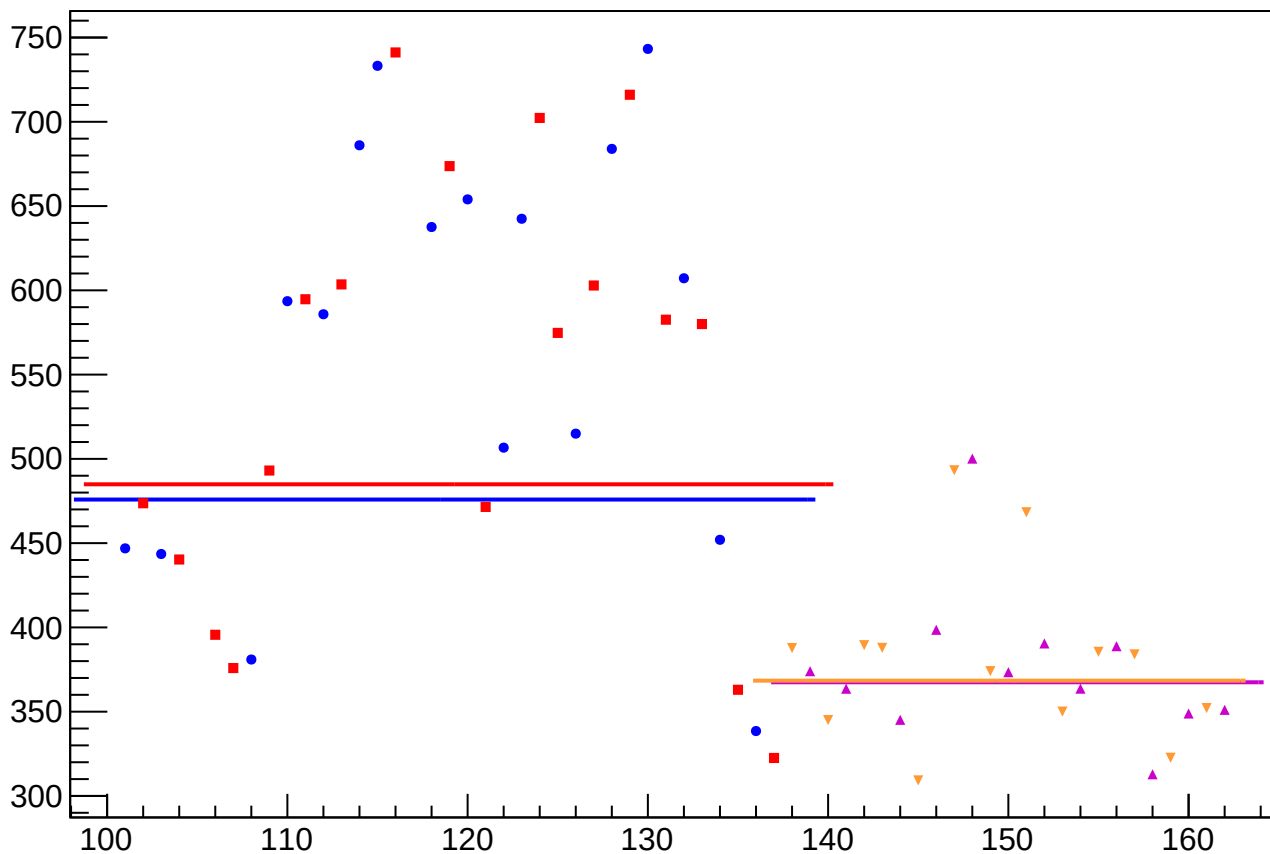
Left In: 105.911 $\pm$ 118.102  $\chi^2$ /NDF: 19.4/11

+ sign -154.783 $\pm$ 100.385  $\chi^2$ /NDF: 35.1/29

All: -18.391 $\pm$ 70.837  $\chi^2$ /NDF: 74.3/59

- sign 116.884 $\pm$ 99.973  $\chi^2$ /NDF: 35.5/29

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 475.871 $\pm$ 0.134  $\chi^2$ /NDF: 837808.5/16

Left Out: 368.416 $\pm$ 0.084  $\chi^2$ /NDF:291568.6/12

Right Out: 484.914 $\pm$ 0.133  $\chi^2$ /NDF: 716315.8/17

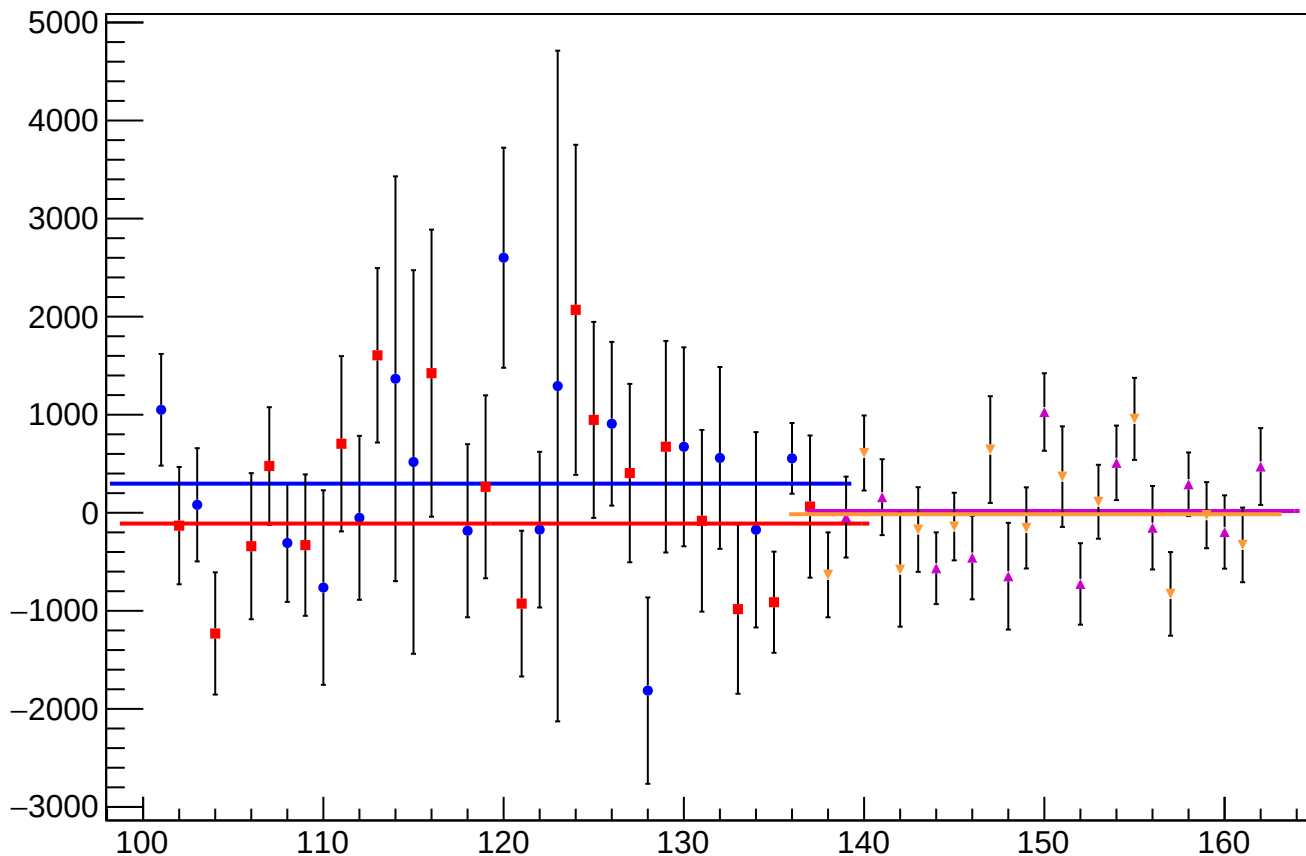
Left In: 367.440 $\pm$ 0.084  $\chi^2$ /NDF:198941.6/11

+ sign 398.447 $\pm$ 0.071  $\chi^2$ /NDF: 1590842.2/29

All: 399.597 $\pm$ 0.050  $\chi^2$ /NDF: 3067505.3/59

- sign 400.738 $\pm$ 0.071  $\chi^2$ /NDF: 1476139.7/29

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In:  $296.984 \pm 185.975$   $\chi^2/\text{NDF}$ : 15.9/16

Left Out:  $-14.901 \pm 114.807$   $\chi^2/\text{NDF}$ : 17.9/12

Right Out:  $-110.141 \pm 184.400$   $\chi^2/\text{NDF}$ : 18.5/17

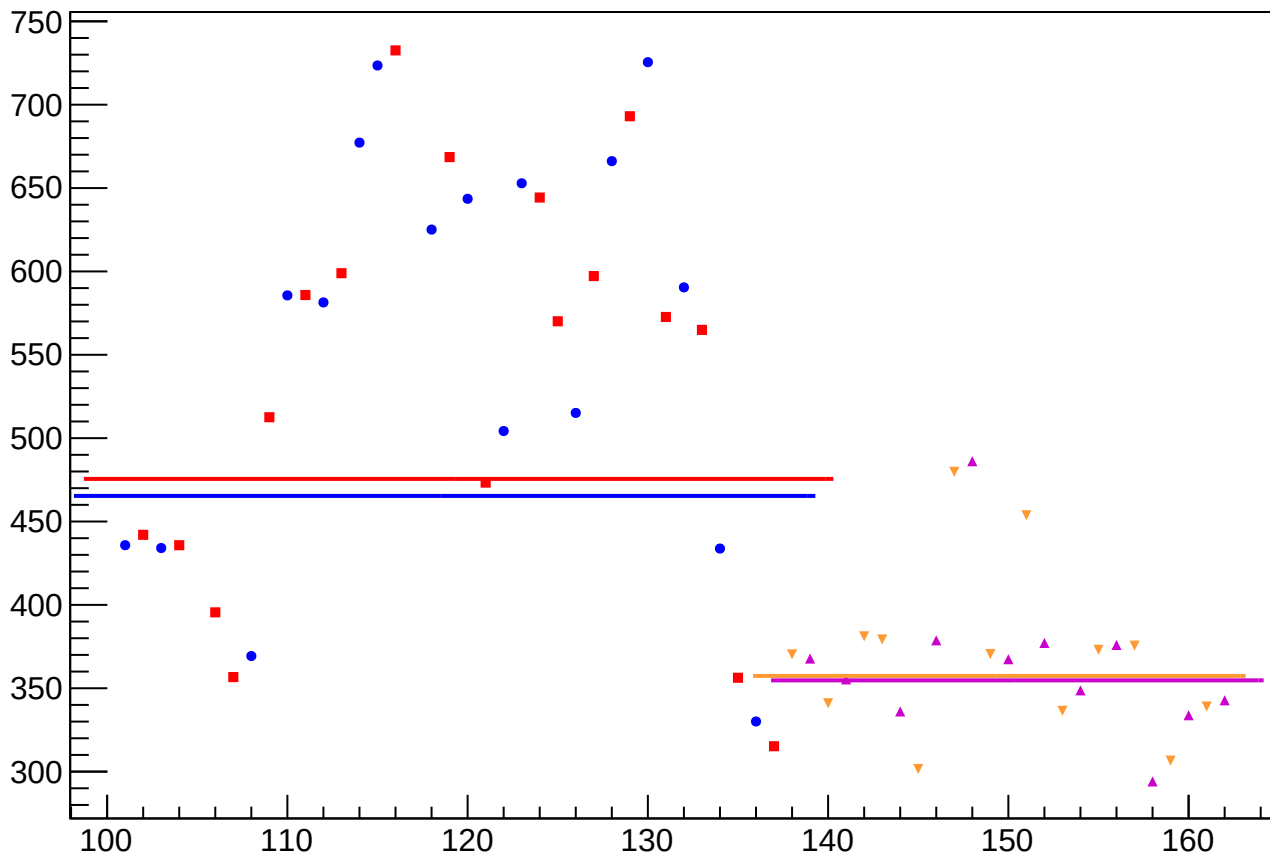
Left In:  $17.592 \pm 114.129$   $\chi^2/\text{NDF}$ : 19.4/11

+ sign  $71.158 \pm 97.692$   $\chi^2/\text{NDF}$ : 35.8/29

All:  $26.391 \pm 68.849$   $\chi^2/\text{NDF}$ : 74.5/59

- sign  $-17.786 \pm 97.045$   $\chi^2/\text{NDF}$ : 38.3/29

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 465.356+/-0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 357.390+/-0.081  $\chi^2/\text{NDF}$ :302904.8/12

Right Out: 475.559+/-0.130  $\chi^2/\text{NDF}$ : 740849.9/17

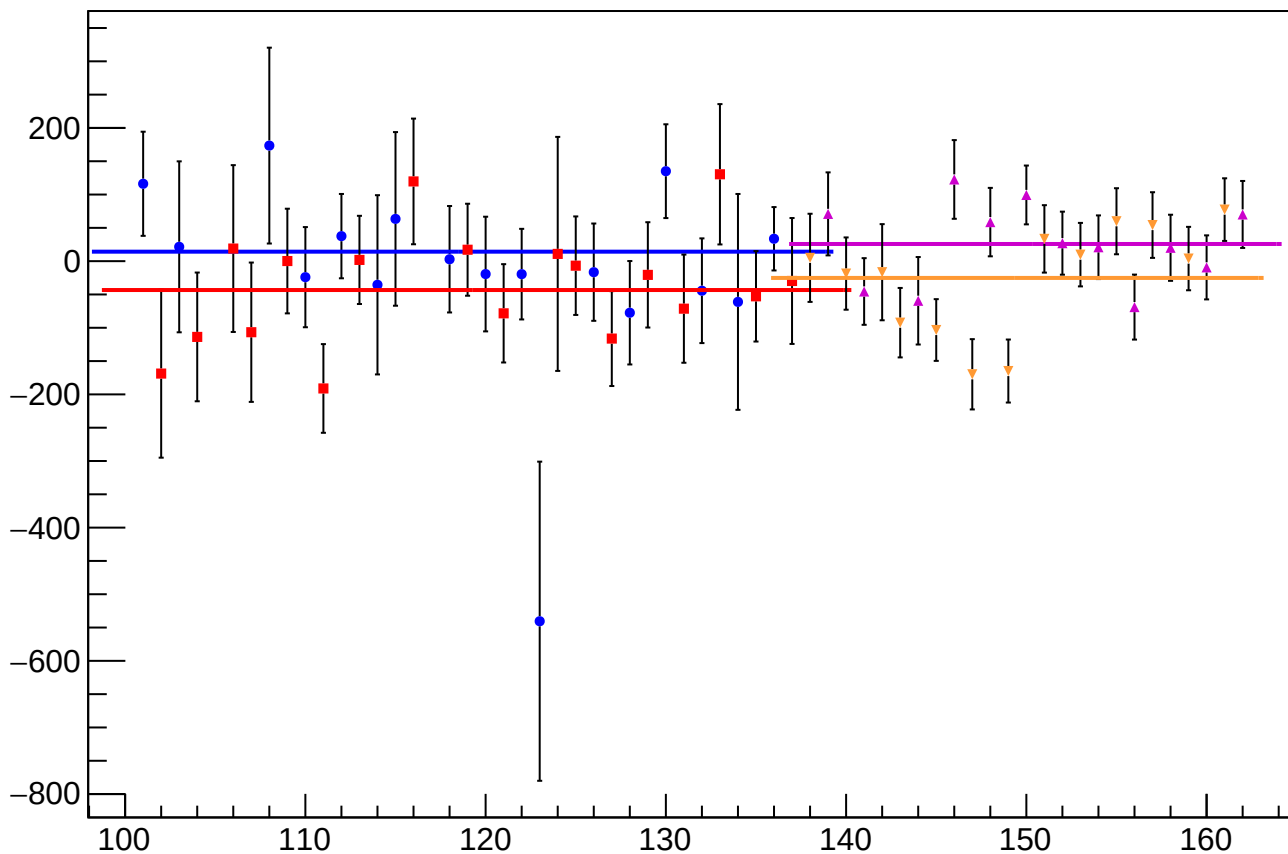
Left In: 354.731+/-0.081  $\chi^2/\text{NDF}$ :221689.6/11

+ sign 387.181+/-0.069  $\chi^2/\text{NDF}$ : 1651383.7/29

All: 387.692+/-0.049  $\chi^2/\text{NDF}$ : 3234904.2/59

- sign 388.196+/-0.069  $\chi^2/\text{NDF}$ : 1583411.8/29

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 14.253+/-19.867  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -25.170+/-14.223  $\chi^2/\text{NDF}$ : 33.5/12

Right Out: -43.336+/-19.650  $\chi^2/\text{NDF}$ : 16.2/17

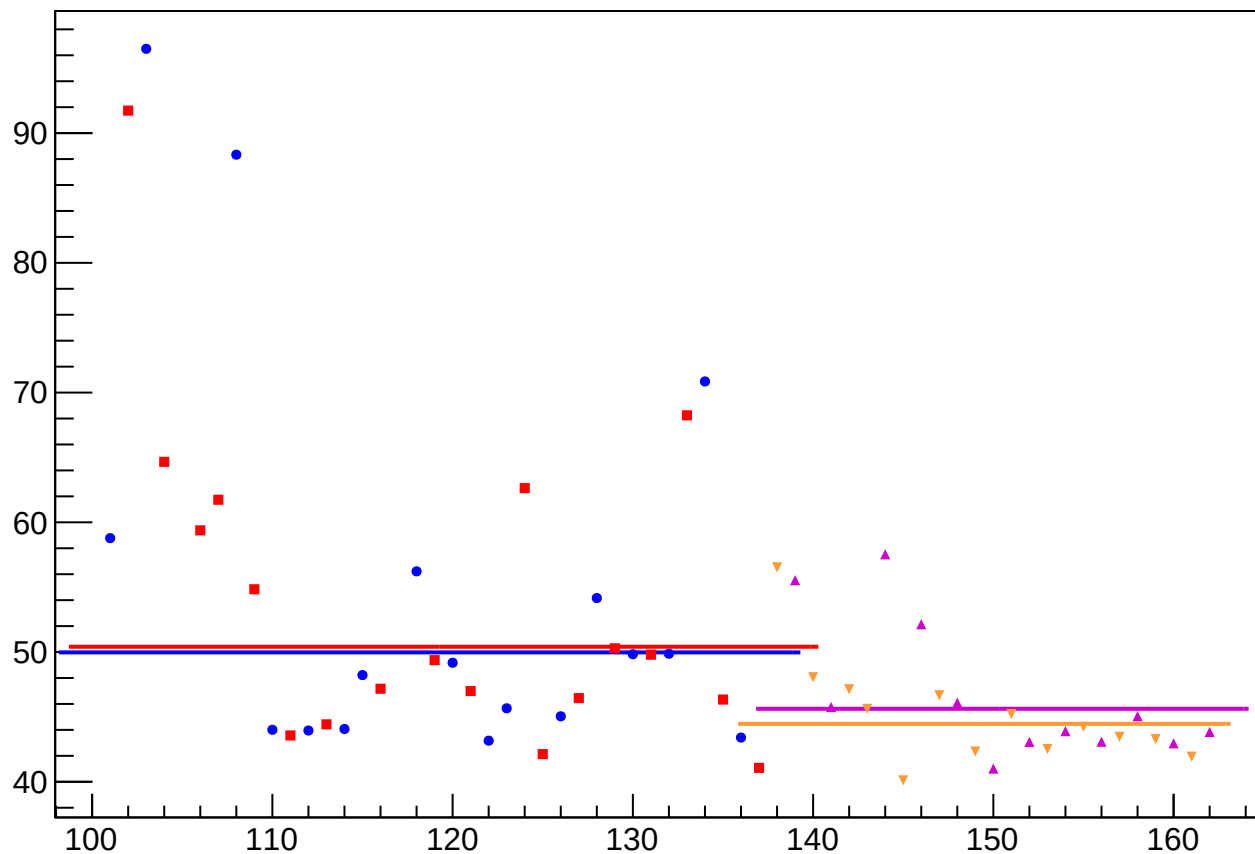
Left In: 25.778+/-14.733  $\chi^2/\text{NDF}$ : 15.2/11

+ sign -11.811+/-11.565  $\chi^2/\text{NDF}$ : 50.9/29

All: -5.574+/-8.255  $\chi^2/\text{NDF}$ : 90.8/59

- sign 0.906+/-11.788  $\chi^2/\text{NDF}$ : 39.3/29

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 49.973 $\pm$ 0.014  $\chi^2$ /NDF: 578750.7/16

Left Out: 44.466 $\pm$ 0.010  $\chi^2$ /NDF: 115886.9/12

Right Out: 50.408 $\pm$ 0.014  $\chi^2$ /NDF: 467481.4/17

Left In: 45.626 $\pm$ 0.010  $\chi^2$ /NDF: 185488.7/11

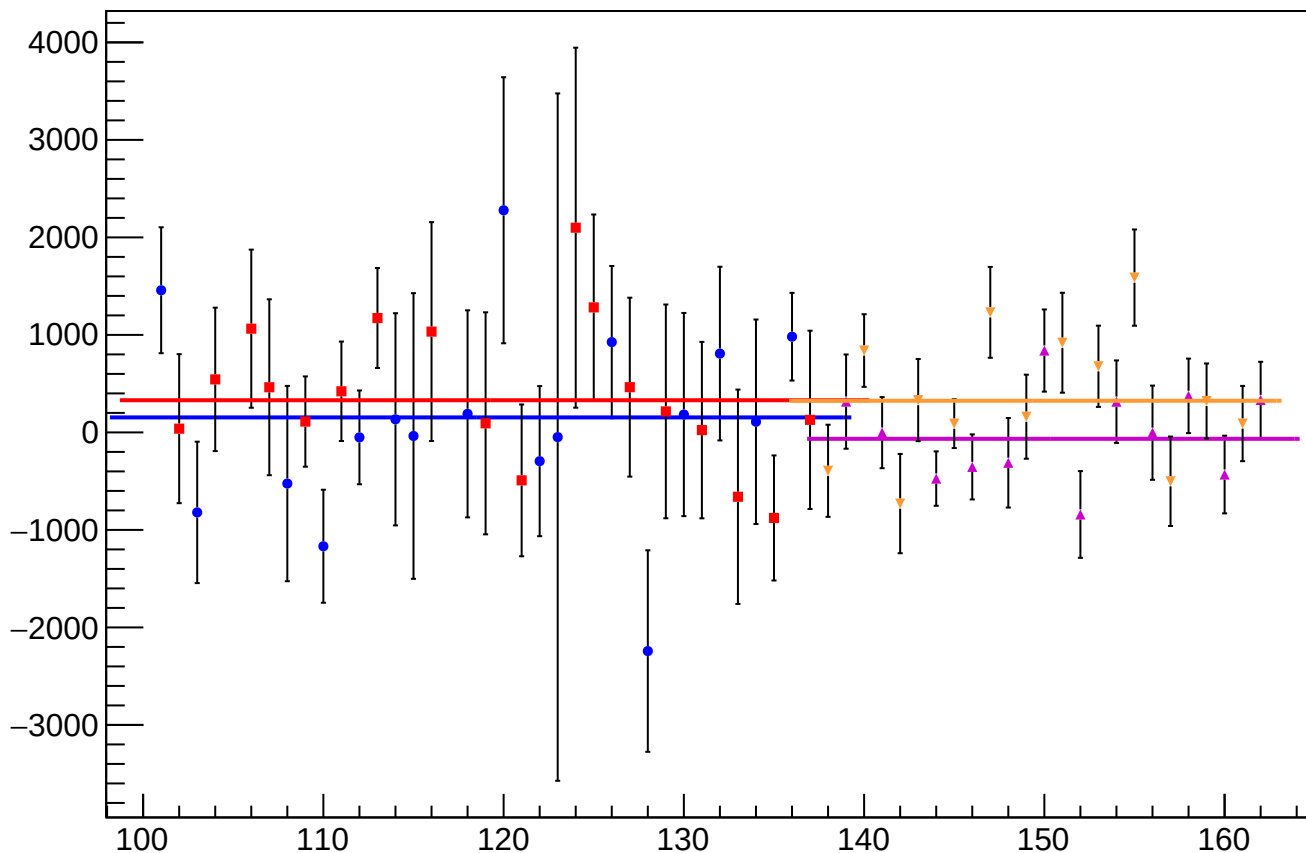
+ sign 46.332 $\pm$ 0.008  $\chi^2$ /NDF: 796258.9/29

All: 46.830 $\pm$ 0.006  $\chi^2$ /NDF: 1532607.7/59

- sign 47.347 $\pm$ 0.008  $\chi^2$ /NDF: 728792.1/29



# 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: 324.588 $\pm$ 112.504  $\chi^2/\text{NDF}$ : 25.5/12

Right Out: 329.952 $\pm$ 179.795  $\chi^2/\text{NDF}$ : 12.1/17

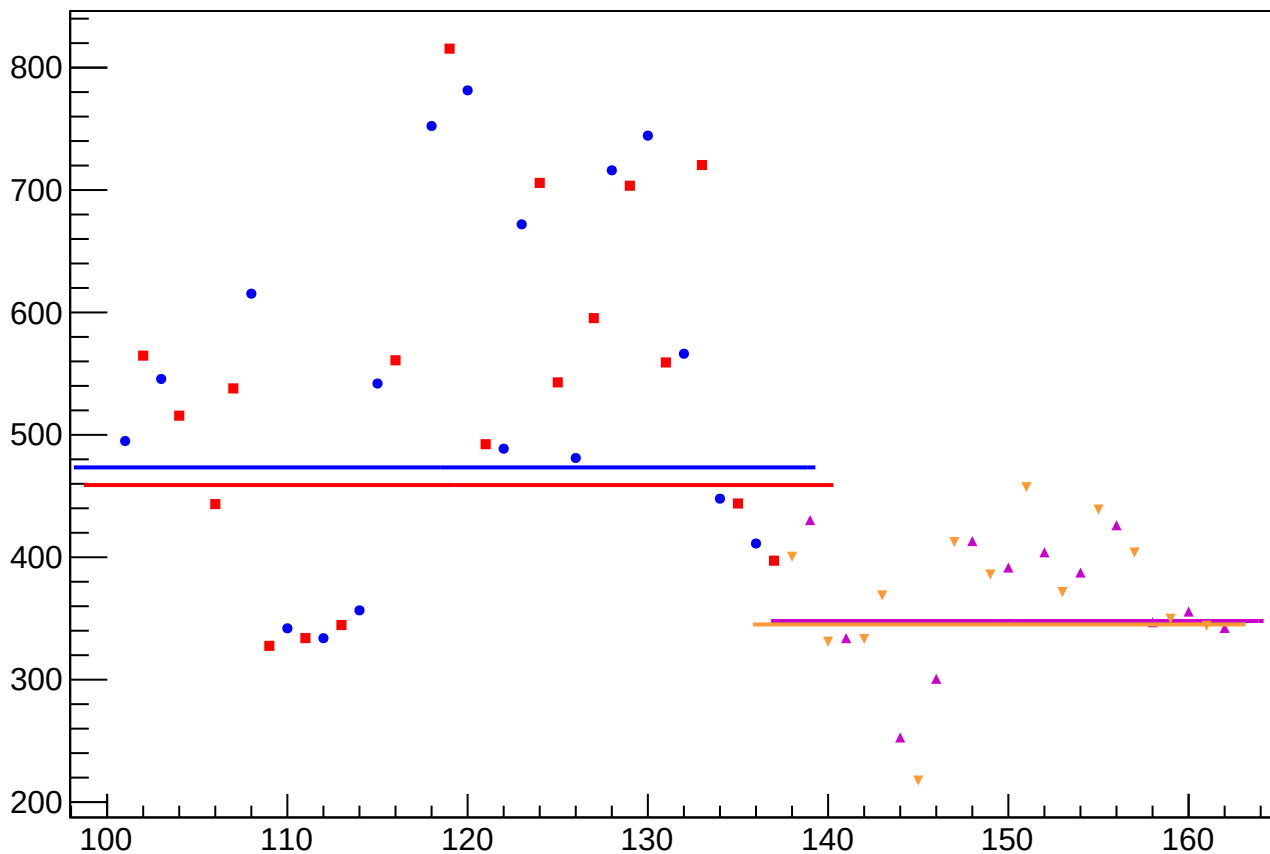
Left In: -65.782 $\pm$ 112.779  $\chi^2/\text{NDF}$ : 15.5/11

+ sign 280.251 $\pm$ 96.801  $\chi^2/\text{NDF}$ : 50.9/29

All: 161.568 $\pm$ 67.998  $\chi^2/\text{NDF}$ : 85.0/59

- sign 45.959 $\pm$ 95.539  $\chi^2/\text{NDF}$ : 31.1/29

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 473.406 $\pm$ 0.134  $\chi^2$ /NDF: 914927.8/16

Left Out: 345.110 $\pm$ 0.080  $\chi^2$ /NDF:825269.3/12

Right Out: 458.988 $\pm$ 0.127  $\chi^2$ /NDF: 1006257.2/17

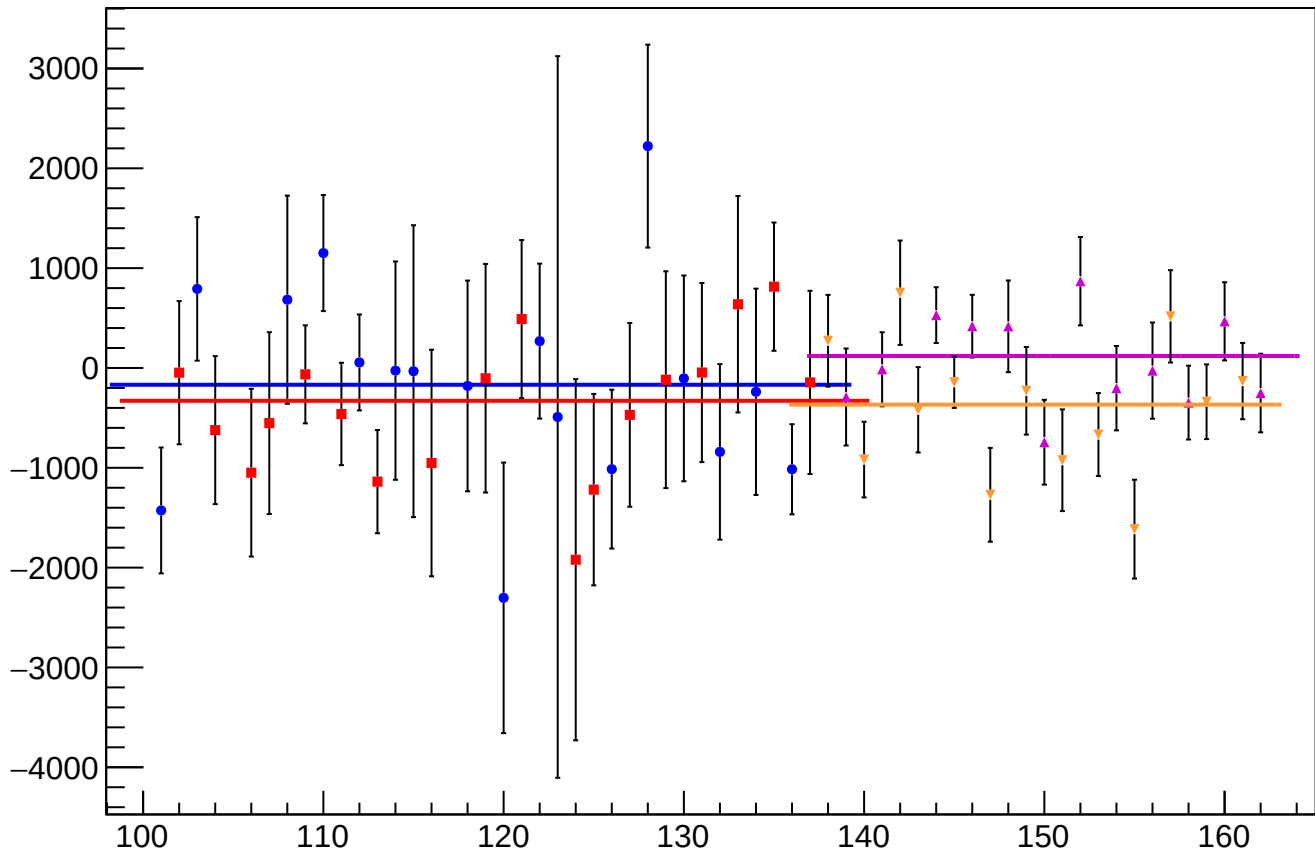
Left In: 347.929 $\pm$ 0.080  $\chi^2$ /NDF:499015.4/11

+ sign 378.425 $\pm$ 0.068  $\chi^2$ /NDF: 2415570.0/29

All: 378.862 $\pm$ 0.048  $\chi^2$ /NDF: 4468555.1/59

- sign 379.288 $\pm$ 0.068  $\chi^2$ /NDF: 2052904.6/29

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In:  $-168.049 \pm 189.758$   $\chi^2/\text{NDF}$ : 25.4/16

Left Out:  $-366.948 \pm 113.166$   $\chi^2/\text{NDF}$ : 25.3/12

Right Out:  $-328.598 \pm 181.559$   $\chi^2/\text{NDF}$ : 11.1/17

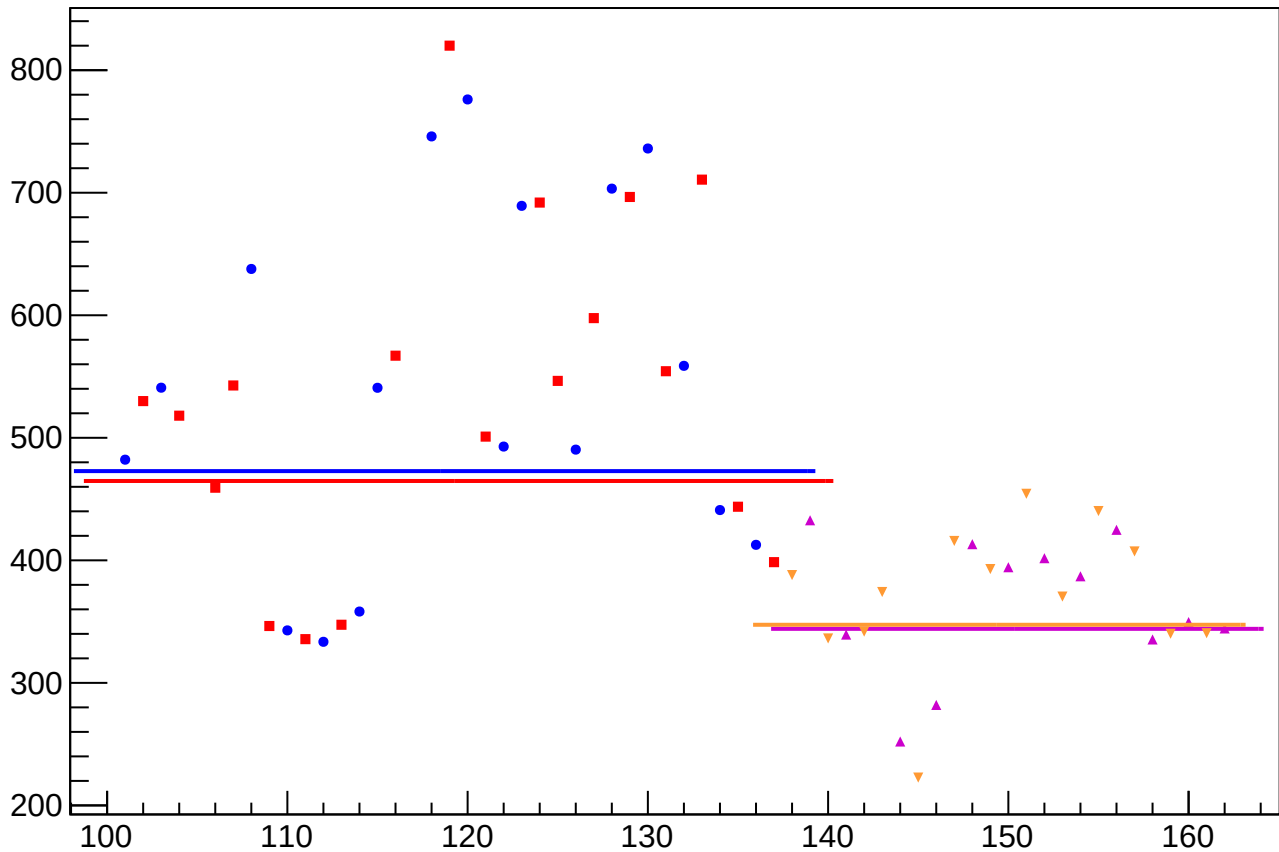
Left In:  $120.155 \pm 111.802$   $\chi^2/\text{NDF}$ : 15.3/11

+ sign  $-314.767 \pm 97.194$   $\chi^2/\text{NDF}$ : 51.5/29

All:  $-155.766 \pm 68.011$   $\chi^2/\text{NDF}$ : 87.6/59

- sign  $-3.224 \pm 95.200$   $\chi^2/\text{NDF}$ : 30.8/29

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 347.414 $\pm$ 0.080  $\chi^2$ /NDF: 759918.5/12

Right Out: 464.761 $\pm$ 0.128  $\chi^2$ /NDF: 914781.1/17

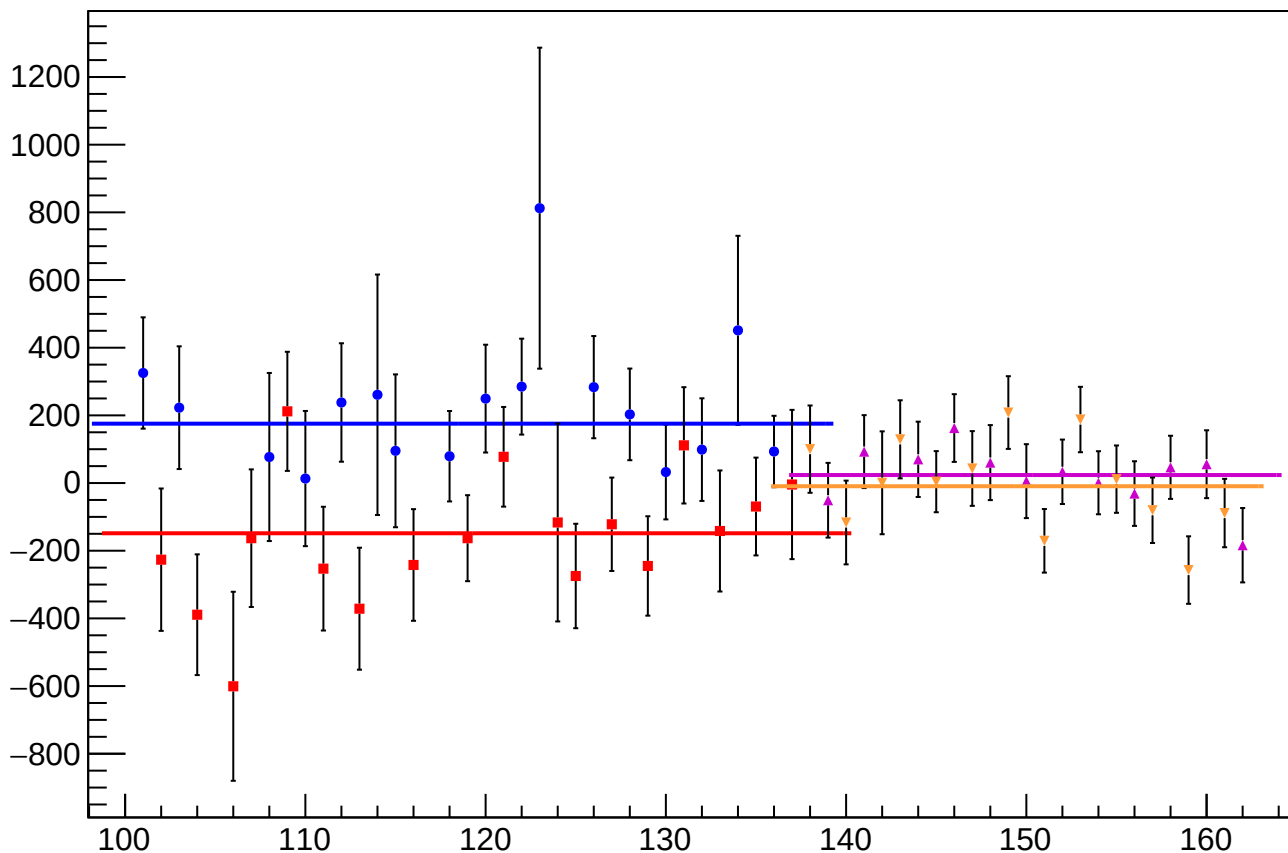
Left In: 344.089 $\pm$ 0.079  $\chi^2$ /NDF: 546995.5/11

+ sign 380.314 $\pm$ 0.069  $\chi^2$ /NDF: 2300634.2/29

All: 378.758 $\pm$ 0.048  $\chi^2$ /NDF: 4404004.1/59

- sign 377.266 $\pm$ 0.067  $\chi^2$ /NDF: 2102366.1/29

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In:  $175.468 \pm 40.358$   $\chi^2/\text{NDF}$ : 8.6/16

Left Out:  $-9.442 \pm 29.344$   $\chi^2/\text{NDF}$ : 21.8/12

Right Out:  $-148.445 \pm 40.332$   $\chi^2/\text{NDF}$ : 17.5/17

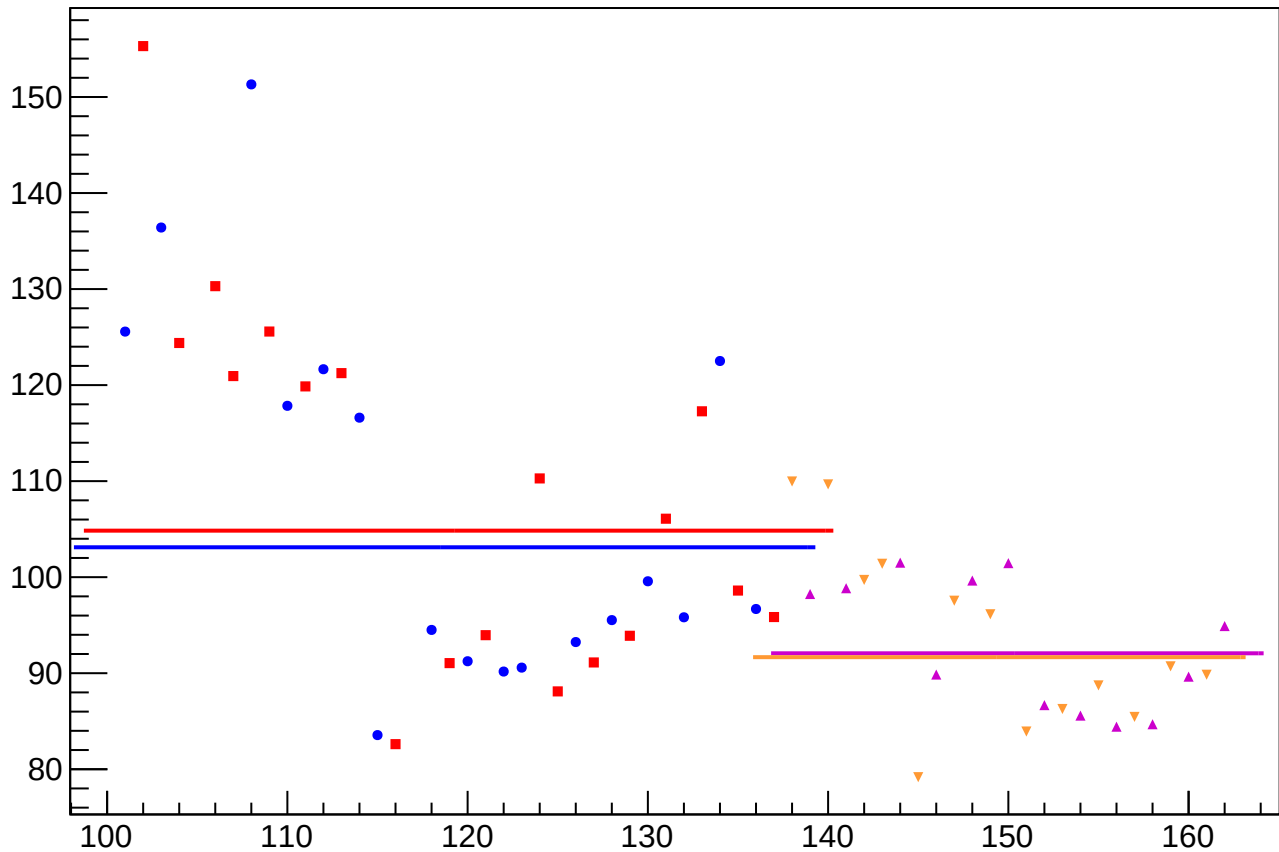
Left In:  $23.666 \pm 29.539$   $\chi^2/\text{NDF}$ : 7.2/11

+ sign  $54.506 \pm 23.734$   $\chi^2/\text{NDF}$ : 44.1/29

All:  $9.227 \pm 16.817$   $\chi^2/\text{NDF}$ : 88.0/59

- sign  $-36.423 \pm 23.831$   $\chi^2/\text{NDF}$ : 36.6/29

# dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 91.669 $\pm$ 0.021  $\chi^2$ /NDF:180368.7/12

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

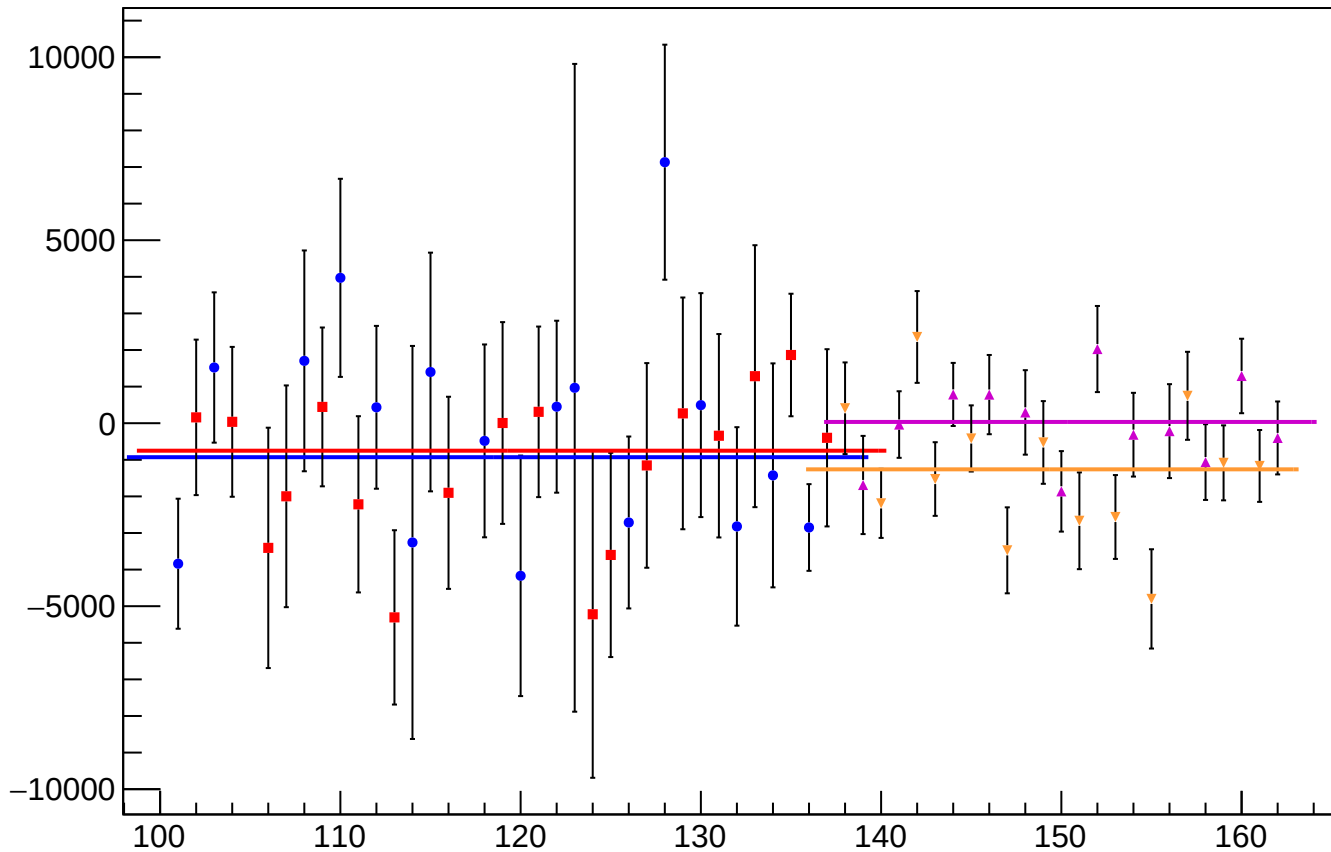
Left In: 92.073 $\pm$ 0.021  $\chi^2$ /NDF:97605.6/11

+ sign 95.626 $\pm$ 0.017  $\chi^2$ /NDF: 591992.1/29

All: 96.077 $\pm$ 0.012  $\chi^2$ /NDF: 1190252.5/59

- sign 96.531 $\pm$ 0.017  $\chi^2$ /NDF: 596811.9/29

# 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: -1260.757 $\pm$ 306.096  $\chi^2/\text{NDF}$ : 28.0/12

Right Out: -751.262 $\pm$ 594.960  $\chi^2/\text{NDF}$ : 10.9/17

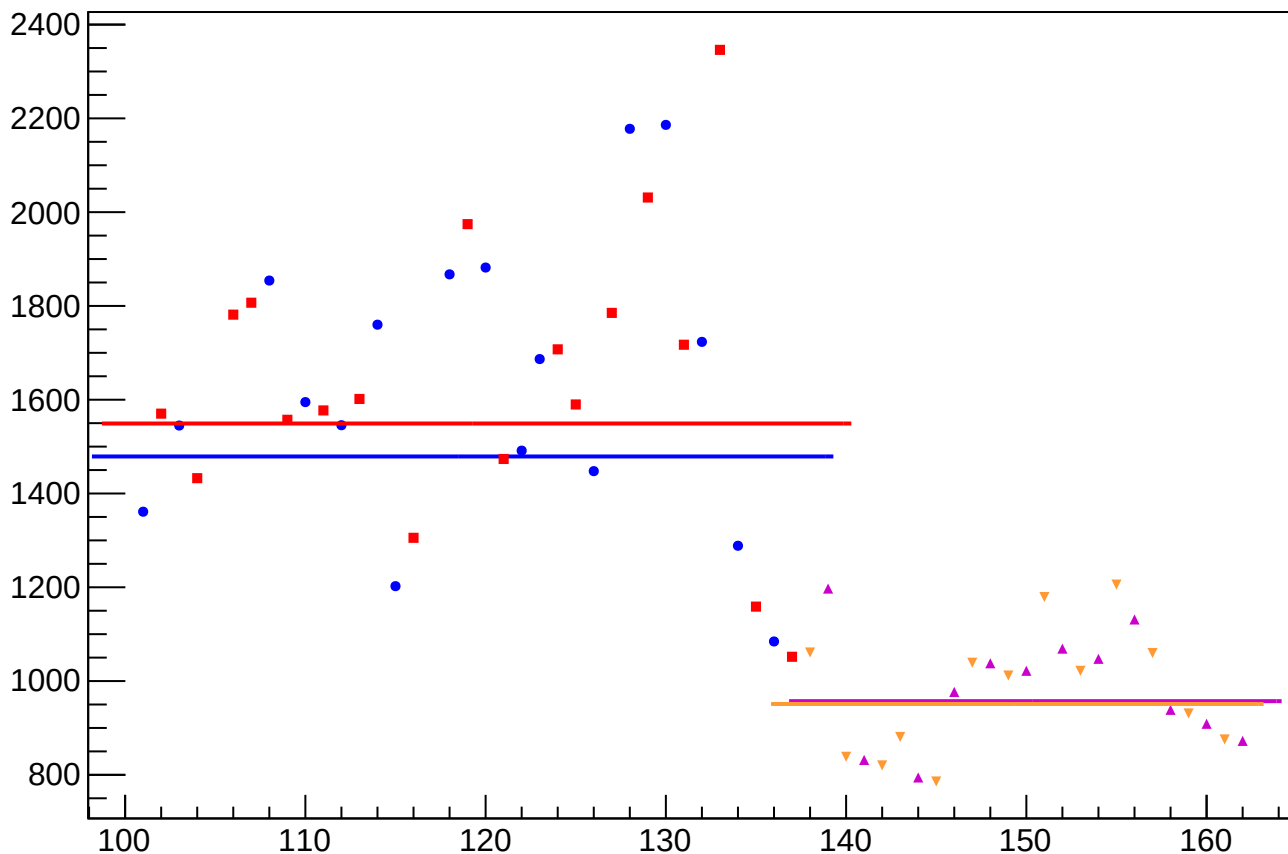
Left In: 34.450 $\pm$ 308.003  $\chi^2/\text{NDF}$ : 11.8/11

+ sign -1189.811 $\pm$ 271.408  $\chi^2/\text{NDF}$ : 49.1/29

All: -664.822 $\pm$ 192.658  $\chi^2/\text{NDF}$ : 80.8/59

- sign -131.616 $\pm$ 273.524  $\chi^2/\text{NDF}$ : 24.1/29

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1478.991 $\pm$ 0.415  $\chi^2$ /NDF: 589620.8/16

Left Out: 951.150 $\pm$ 0.216  $\chi^2$ /NDF: 325847.0/12

Right Out: 1549.266 $\pm$ 0.421  $\chi^2$ /NDF: 462557.8/17

Left In: 957.181 $\pm$ 0.218  $\chi^2$ /NDF: 277748.3/11

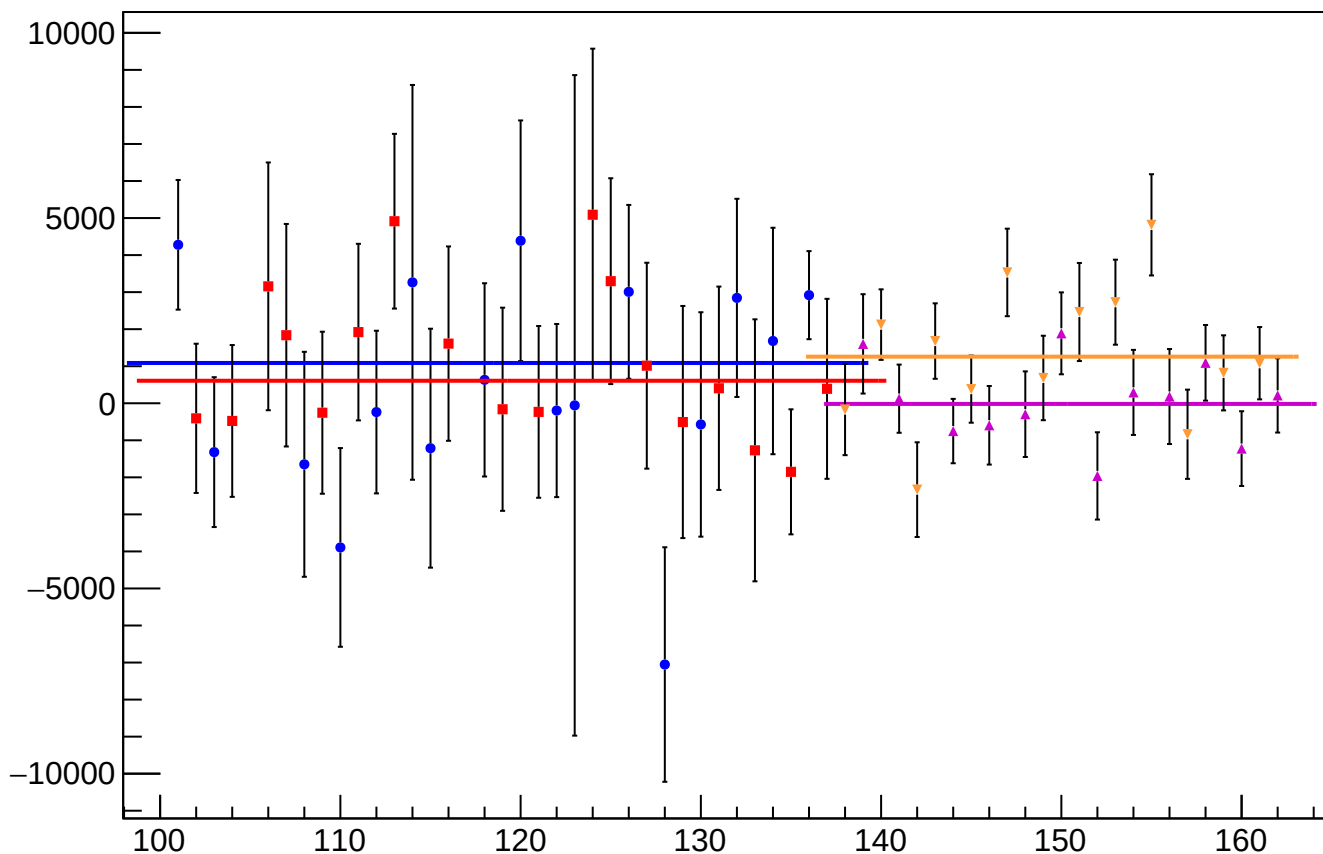
+ sign 1064.004 $\pm$ 0.192  $\chi^2$ /NDF: 2187032.9/29

All: 1073.092 $\pm$ 0.136  $\chi^2$ /NDF: 4493939.7/59

- sign 1082.322 $\pm$ 0.193  $\chi^2$ /NDF: 2302387.2/29



# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 1258.169 $\pm$ 306.906  $\chi^2$ /NDF: 27.6/12

Right Out: 607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

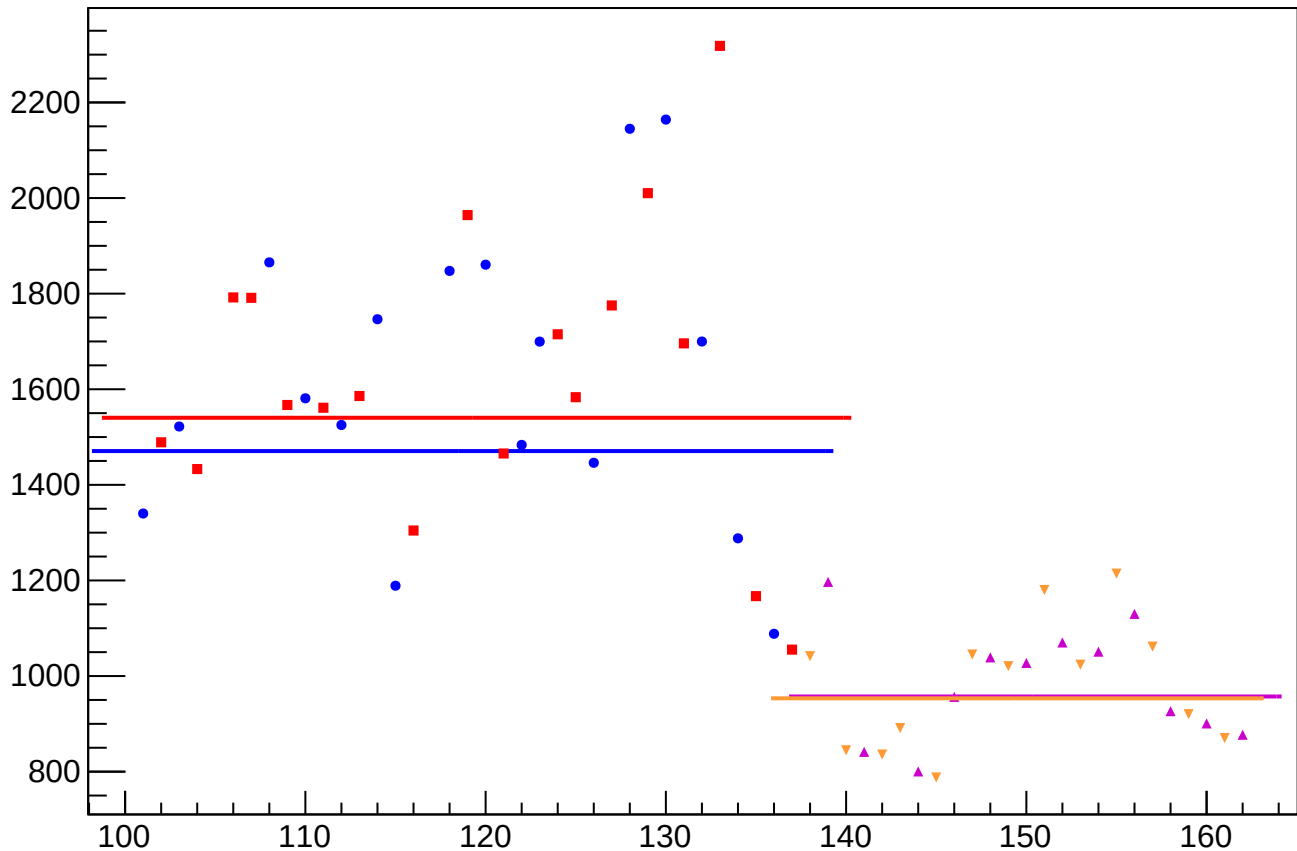
Left In: -17.907 $\pm$ 308.028  $\chi^2$ /NDF: 11.0/11

+ sign 1221.273 $\pm$ 271.607  $\chi^2$ /NDF: 49.5/29

All: 671.680 $\pm$ 192.619  $\chi^2$ /NDF: 79.6/59

- sign 115.588 $\pm$ 273.208  $\chi^2$ /NDF: 21.8/29

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1470.683+/-0.412  $\chi^2/\text{NDF}$ : 567728.4/16

Left Out: 953.388+/-0.217  $\chi^2/\text{NDF}$ : 318229.1/12

Right Out: 1540.341+/-0.418  $\chi^2/\text{NDF}$ : 442804.3/17

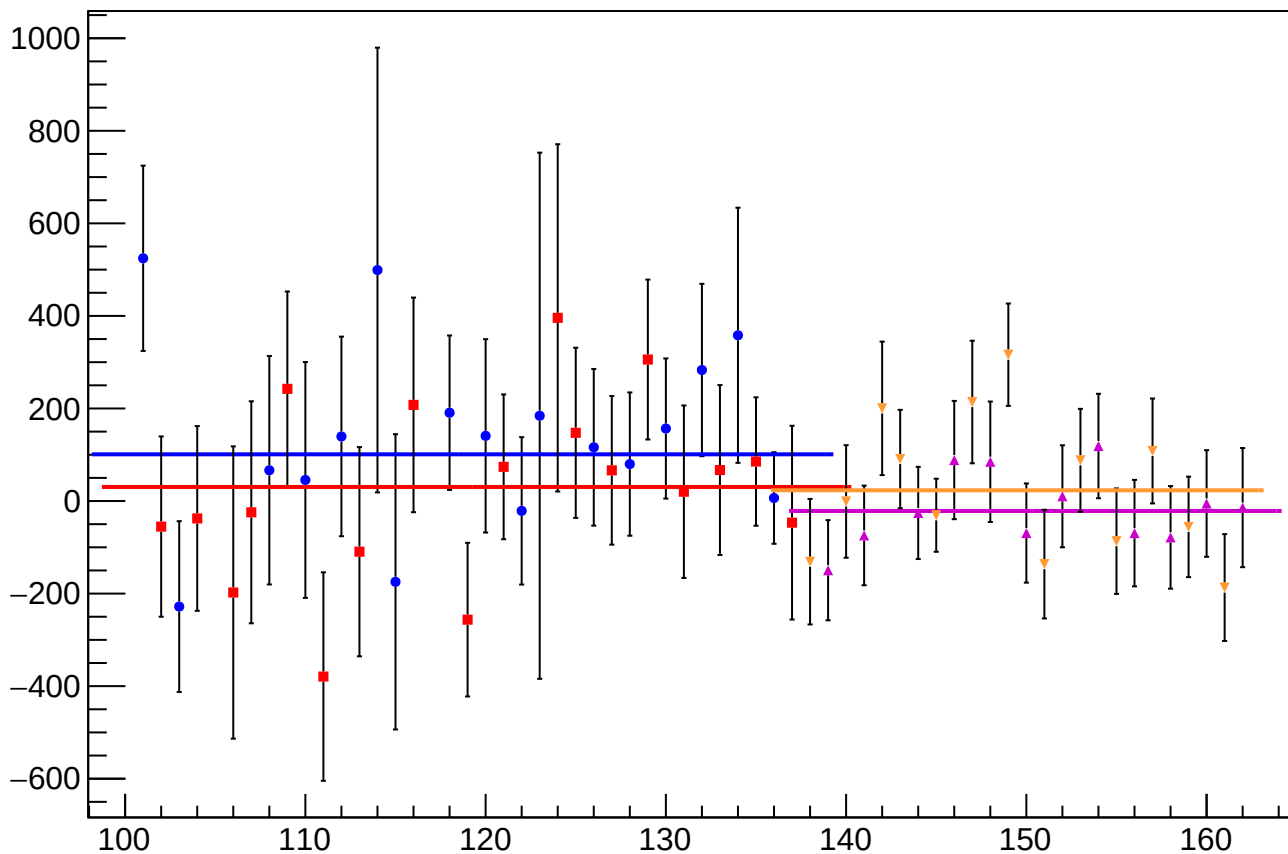
Left In: 957.265+/-0.218  $\chi^2/\text{NDF}$ : 267548.4/11

+ sign 1065.538+/-0.192  $\chi^2/\text{NDF}$ : 2117798.5/29

All: 1073.541+/-0.136  $\chi^2/\text{NDF}$ : 4360273.1/59

- sign 1081.639+/-0.193  $\chi^2/\text{NDF}$ : 2238980.9/29

# 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: 23.216 $\pm$ 31.220  $\chi^2/\text{NDF}$ : 20.3/12

Right Out: 30.411 $\pm$ 45.710  $\chi^2/\text{NDF}$ : 13.5/17

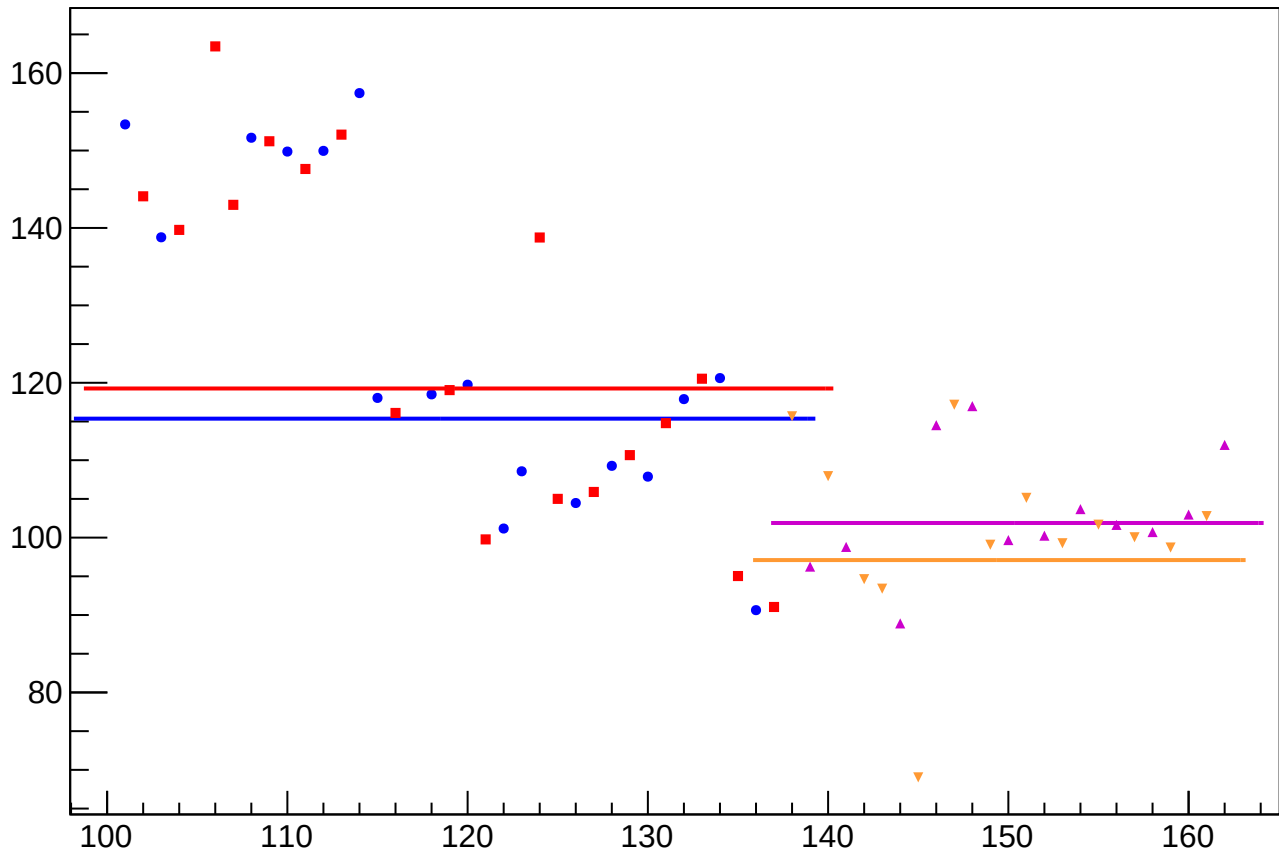
Left In: -21.491 $\pm$ 32.734  $\chi^2/\text{NDF}$ : 5.3/11

+ sign 48.250 $\pm$ 25.703  $\chi^2/\text{NDF}$ : 35.3/29

All: 23.084 $\pm$ 18.488  $\chi^2/\text{NDF}$ : 57.0/59

- sign -3.897 $\pm$ 26.614  $\chi^2/\text{NDF}$ : 19.7/29

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 97.098 $\pm$ 0.022  $\chi^2$ /NDF:375937.0/12

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

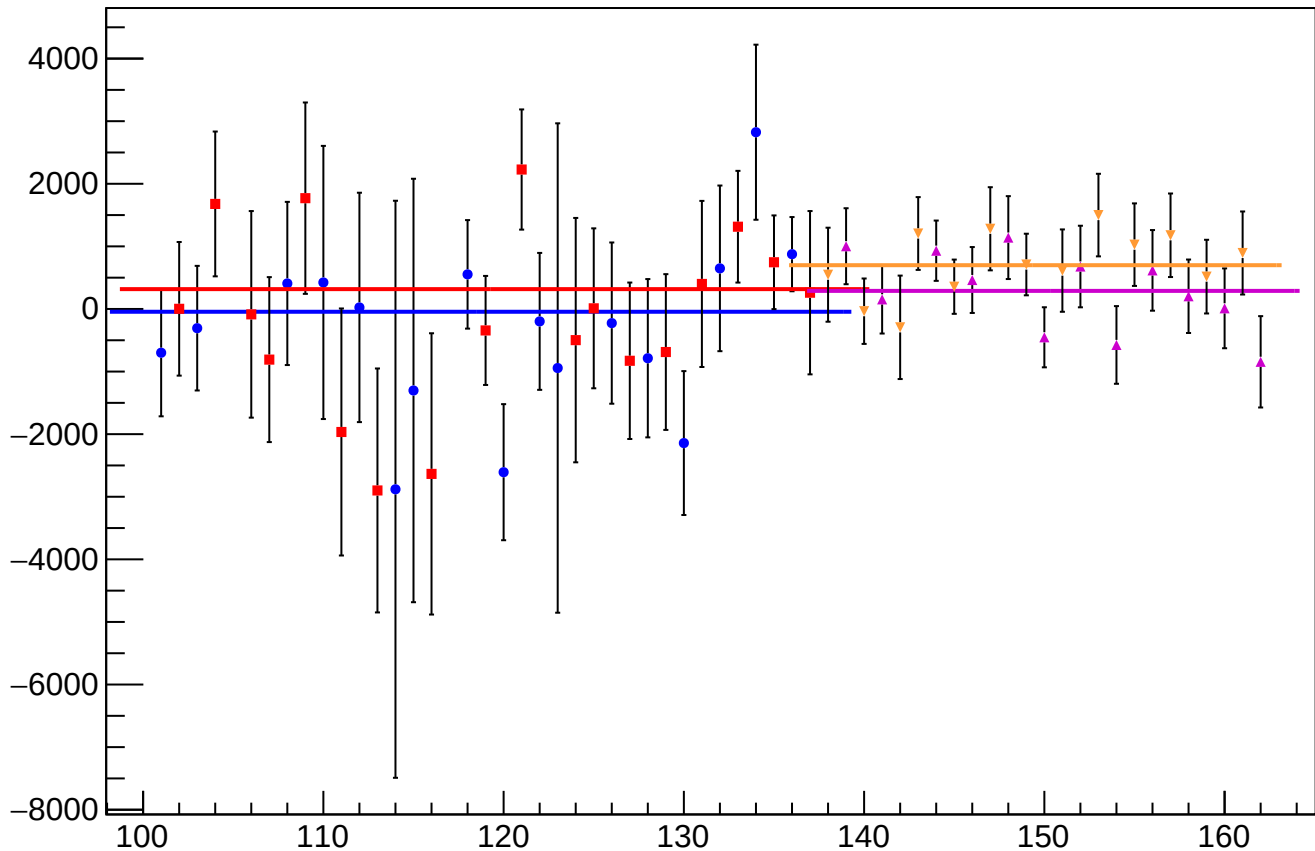
Left In: 101.889 $\pm$ 0.023  $\chi^2$ /NDF:101937.5/11

+ sign 102.984 $\pm$ 0.018  $\chi^2$ /NDF: 1007932.8/29

All: 105.298 $\pm$ 0.013  $\chi^2$ /NDF: 1732759.3/59

- sign 107.779 $\pm$ 0.019  $\chi^2$ /NDF: 691230.8/29

# 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:  $699.288 \pm 166.908$   $\chi^2/\text{NDF}$ : 8.1/12

Right Out:  $316.976 \pm 283.113$   $\chi^2/\text{NDF}$ : 16.8/17

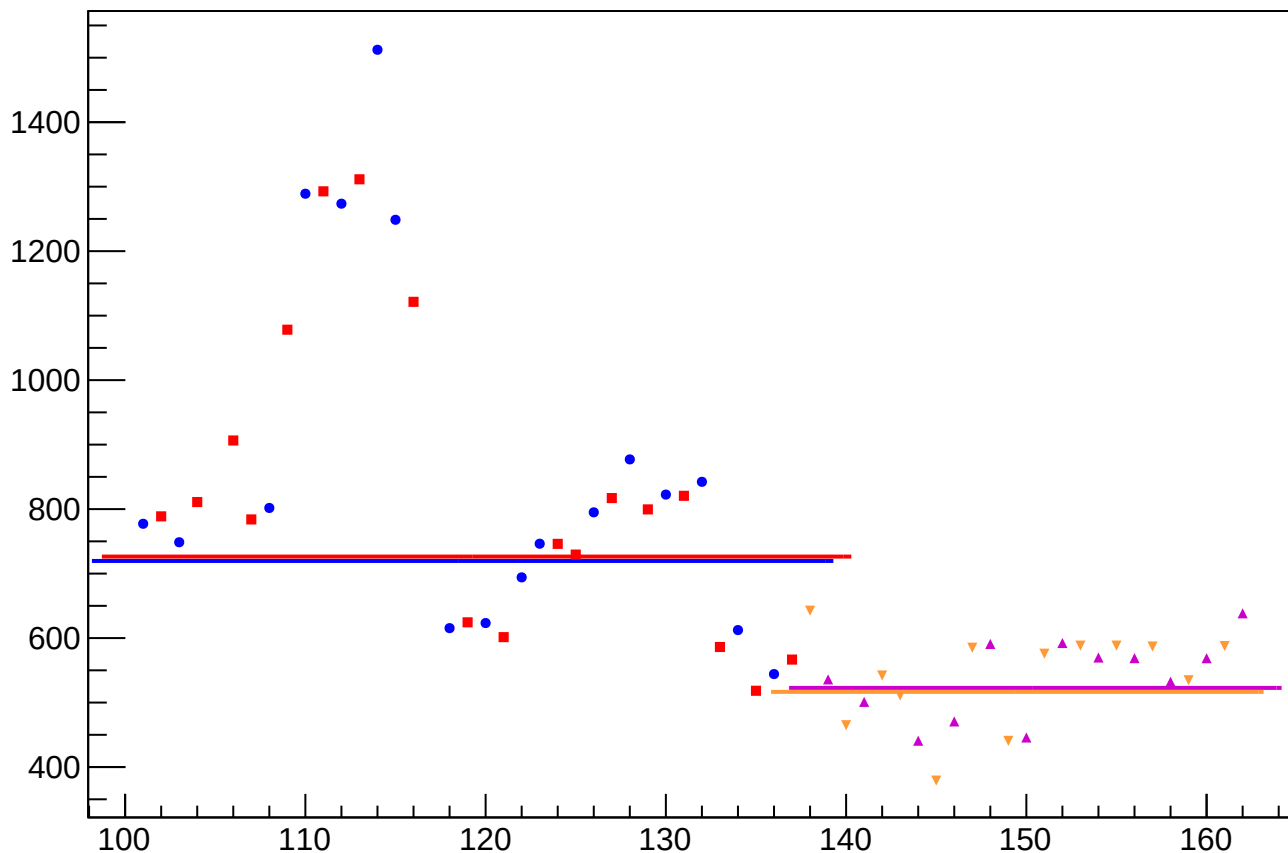
Left In:  $288.870 \pm 168.504$   $\chi^2/\text{NDF}$ : 12.5/11

+ sign  $510.591 \pm 144.191$   $\chi^2/\text{NDF}$ : 31.0/29

All:  $403.857 \pm 102.172$   $\chi^2/\text{NDF}$ : 61.4/59

- sign  $296.222 \pm 144.798$   $\chi^2/\text{NDF}$ : 29.3/29

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 719.606 $\pm$ 0.202  $\chi^2$ /NDF: 746949.1/16

Left Out: 516.608 $\pm$ 0.118  $\chi^2$ /NDF: 459004.0/12

Right Out: 726.397 $\pm$ 0.200  $\chi^2$ /NDF: 880989.6/17

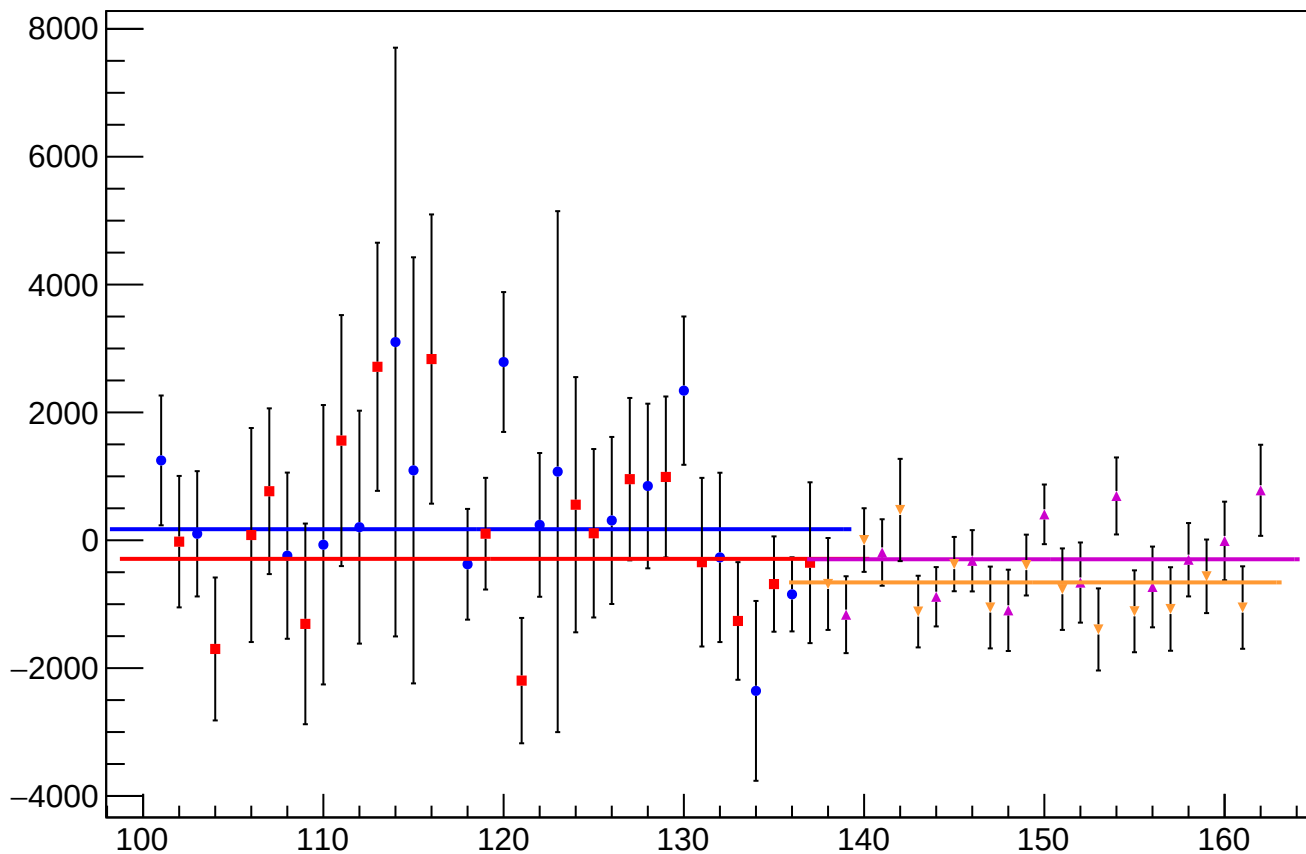
Left In: 522.742 $\pm$ 0.119  $\chi^2$ /NDF: 259839.0/11

+ sign 568.104 $\pm$ 0.102  $\chi^2$ /NDF: 1956443.1/29

All: 572.042 $\pm$ 0.072  $\chi^2$ /NDF: 3864465.6/59

- sign 576.014 $\pm$ 0.102  $\chi^2$ /NDF: 1905025.8/29

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In:  $173.182 \pm 285.672$   $\chi^2/\text{NDF}$ : 18.1/16

Left Out:  $-659.241 \pm 161.803$   $\chi^2/\text{NDF}$ : 8.2/12

Right Out:  $-290.799 \pm 283.545$   $\chi^2/\text{NDF}$ : 15.6/17

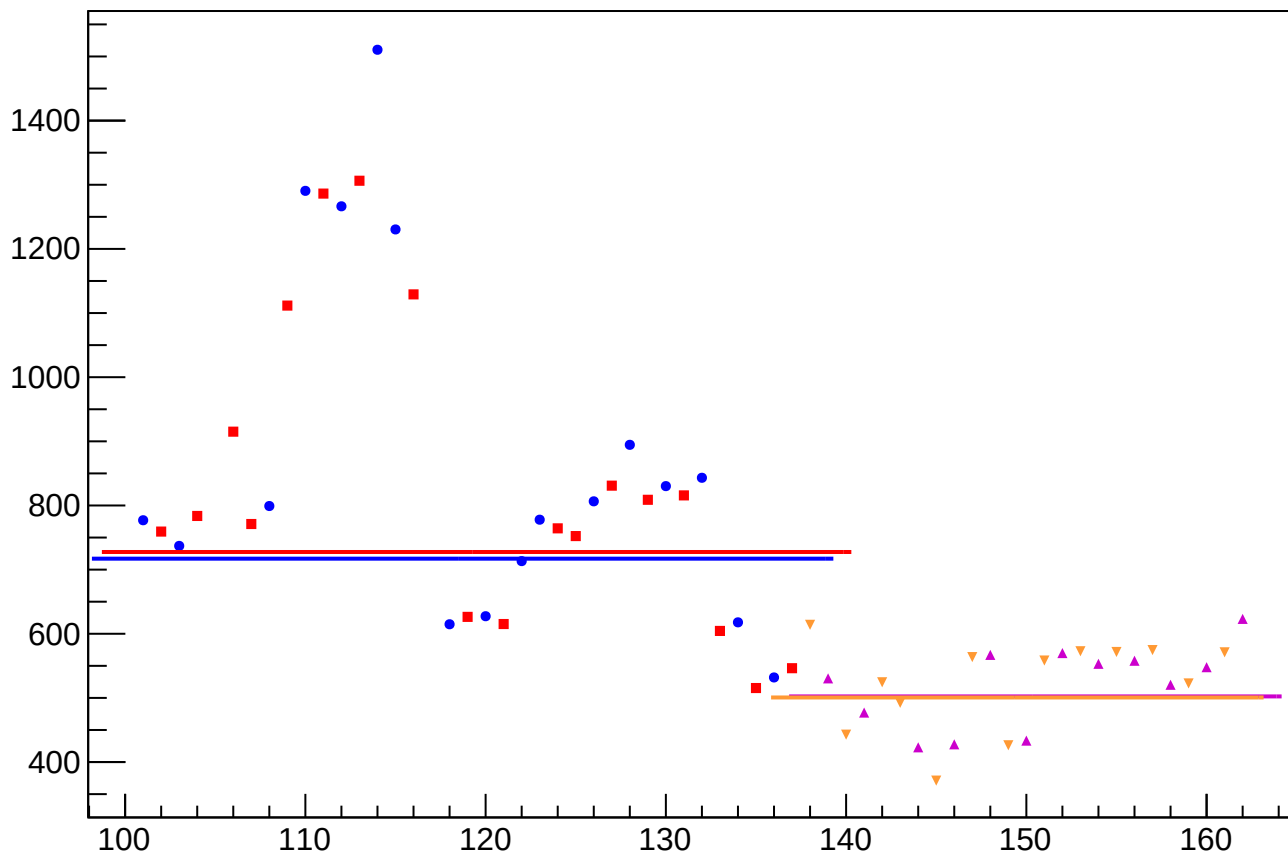
Left In:  $-297.220 \pm 162.261$   $\chi^2/\text{NDF}$ : 13.6/11

+ sign  $-457.059 \pm 140.788$   $\chi^2/\text{NDF}$ : 32.8/29

All:  $-376.373 \pm 99.568$   $\chi^2/\text{NDF}$ : 62.7/59

- sign  $-295.636 \pm 140.832$   $\chi^2/\text{NDF}$ : 29.2/29

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.083+/-0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 500.678+/-0.114  $\chi^2/\text{NDF}$ : 451765.1/12

Right Out: 727.490+/-0.200  $\chi^2/\text{NDF}$ : 881036.5/17

Left In: 502.342+/-0.115  $\chi^2/\text{NDF}$ : 303950.9/11

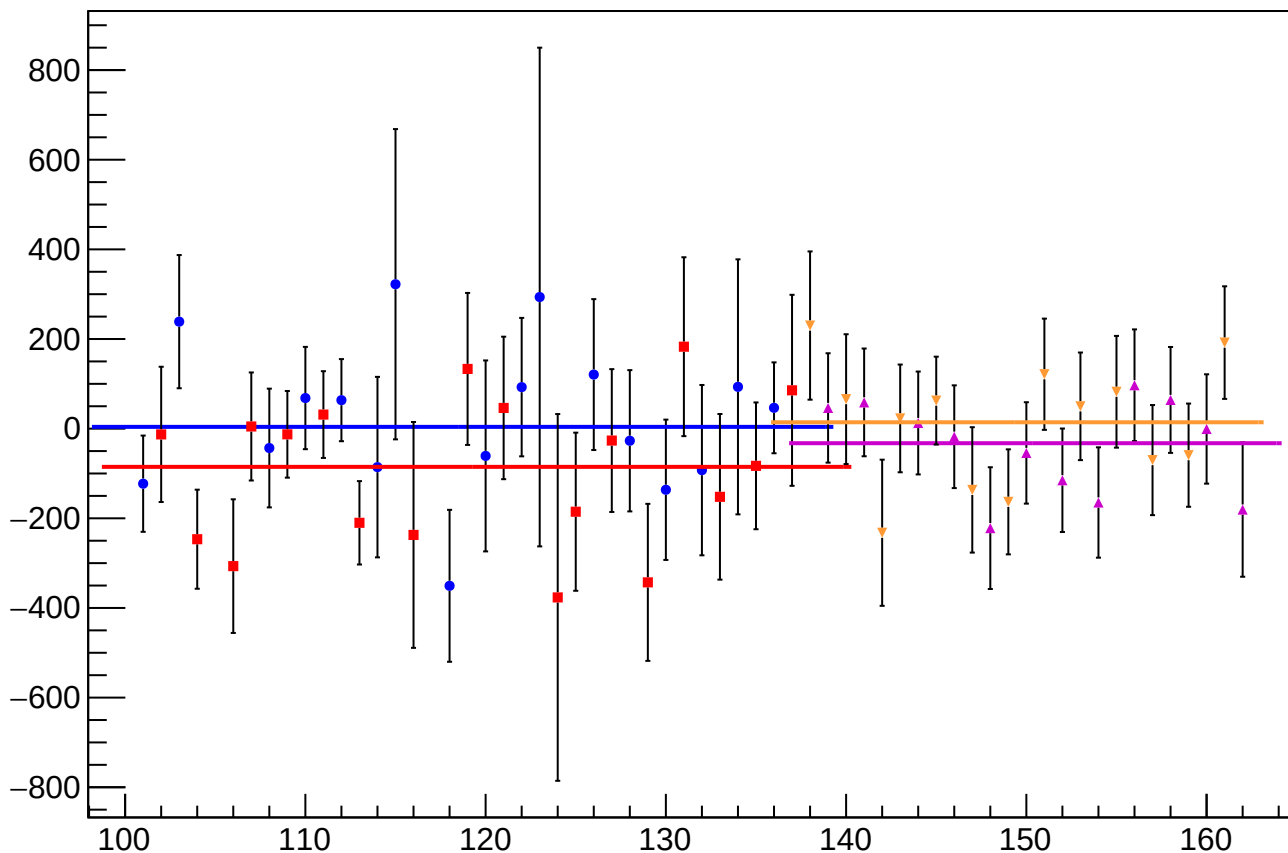
+ sign 553.239+/-0.100  $\chi^2/\text{NDF}$ : 2103158.2/29

All: 555.561+/-0.070  $\chi^2/\text{NDF}$ : 4239163.6/59

- sign 557.884+/-0.100  $\chi^2/\text{NDF}$ : 2134917.0/29



# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}$ : 12.7/16

Left Out:  $14.265 \pm 34.856$   $\chi^2/\text{NDF}$ : 11.8/12

Right Out:  $-85.205 \pm 33.413$   $\chi^2/\text{NDF}$ : 17.4/17

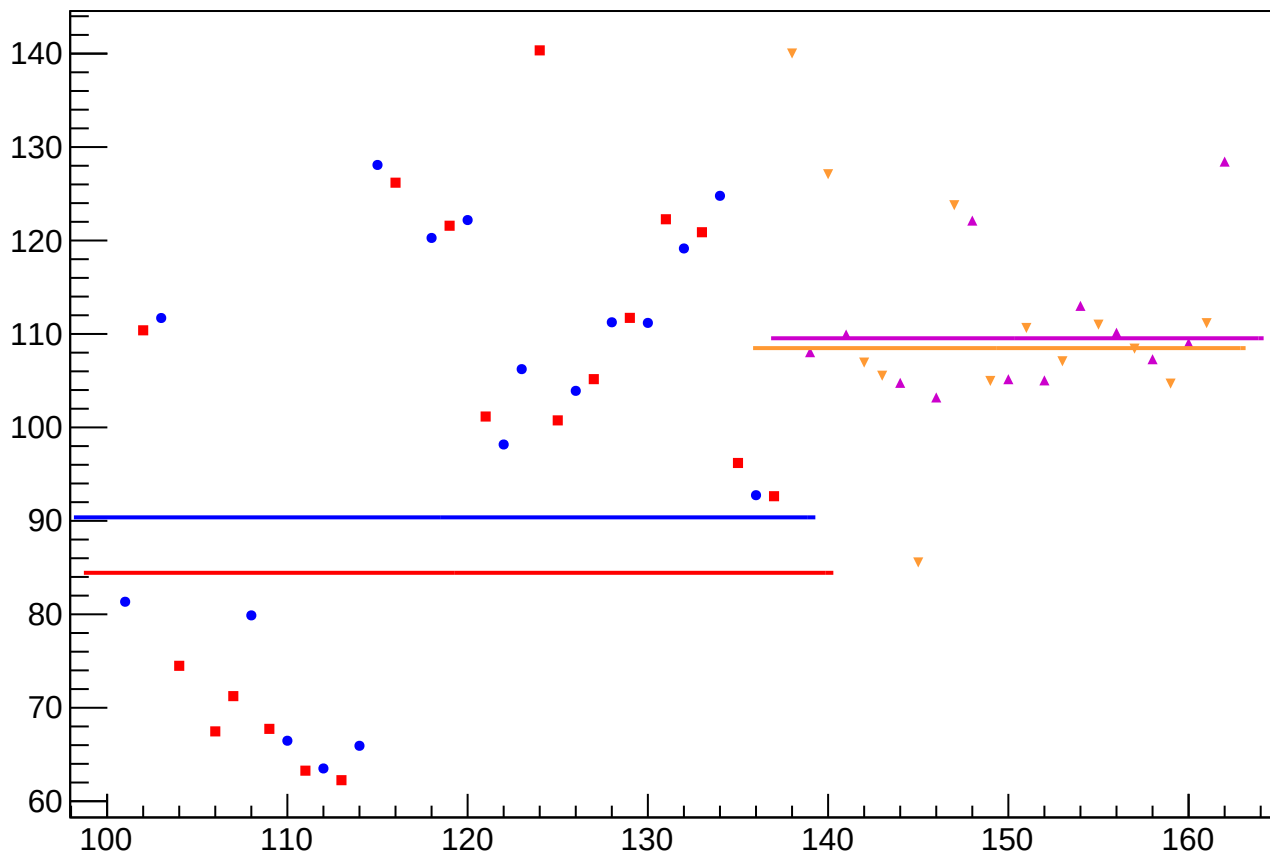
Left In:  $-32.445 \pm 35.143$   $\chi^2/\text{NDF}$ : 7.6/11

+ sign  $9.296 \pm 25.025$   $\chi^2/\text{NDF}$ : 24.6/29

All:  $-26.572 \pm 17.402$   $\chi^2/\text{NDF}$ : 54.7/59

- sign  $-60.156 \pm 24.215$   $\chi^2/\text{NDF}$ : 26.1/29

# dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 90.375+/-0.025  $\chi^2/\text{NDF}$ : 654139.7/16

Left Out: 108.486+/-0.025  $\chi^2/\text{NDF}$ : 247054.1/12

Right Out: 84.442+/-0.024  $\chi^2/\text{NDF}$ : 870835.6/17

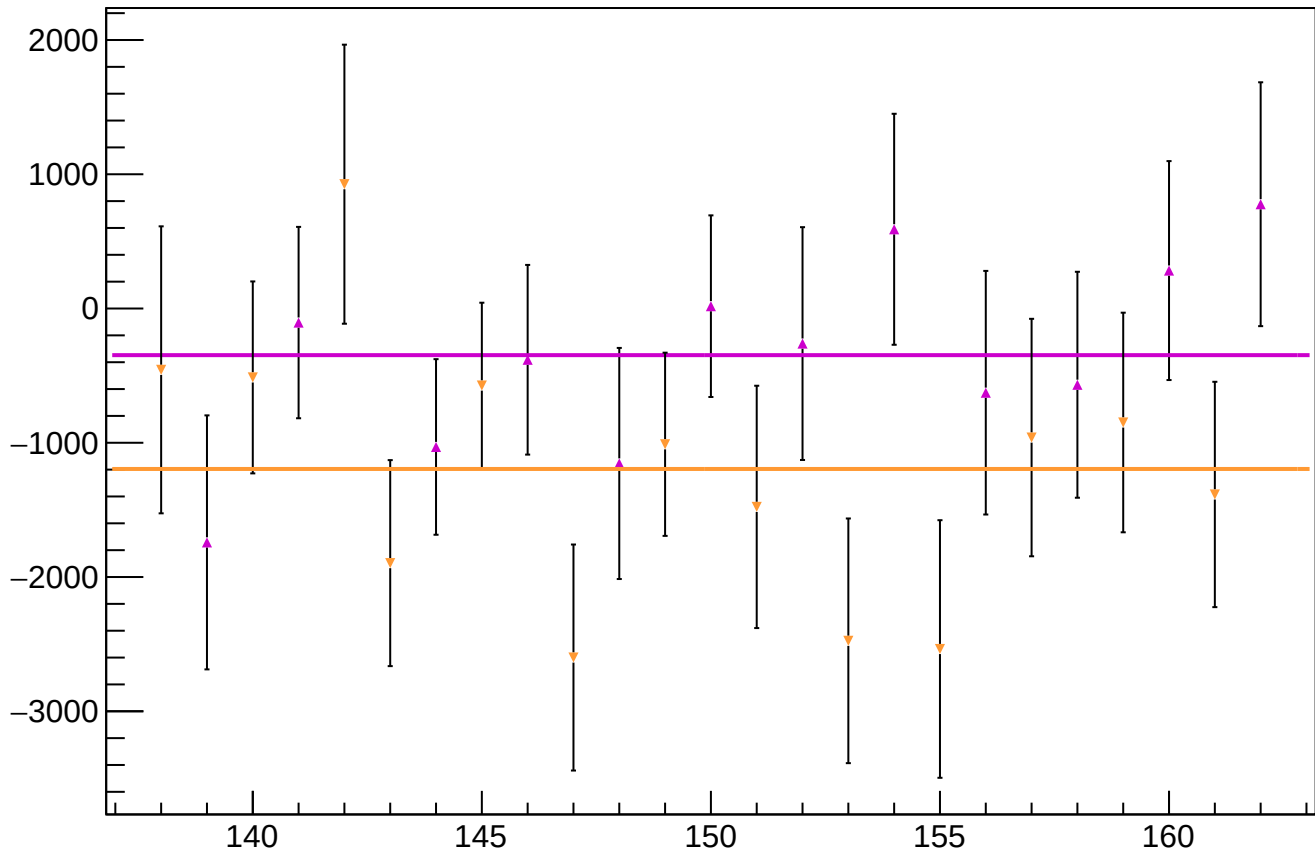
Left In: 109.539+/-0.025  $\chi^2/\text{NDF}$ : 67331.6/11

+ sign 99.710+/-0.018  $\chi^2/\text{NDF}$ : 1162815.0/29

All: 97.979+/-0.012  $\chi^2/\text{NDF}$ : 2655256.1/59

- sign 96.358+/-0.017  $\chi^2/\text{NDF}$ : 1473903.8/29

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1195.153 $\pm$ 227.302  $\chi^2$ /NDF:14.6/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

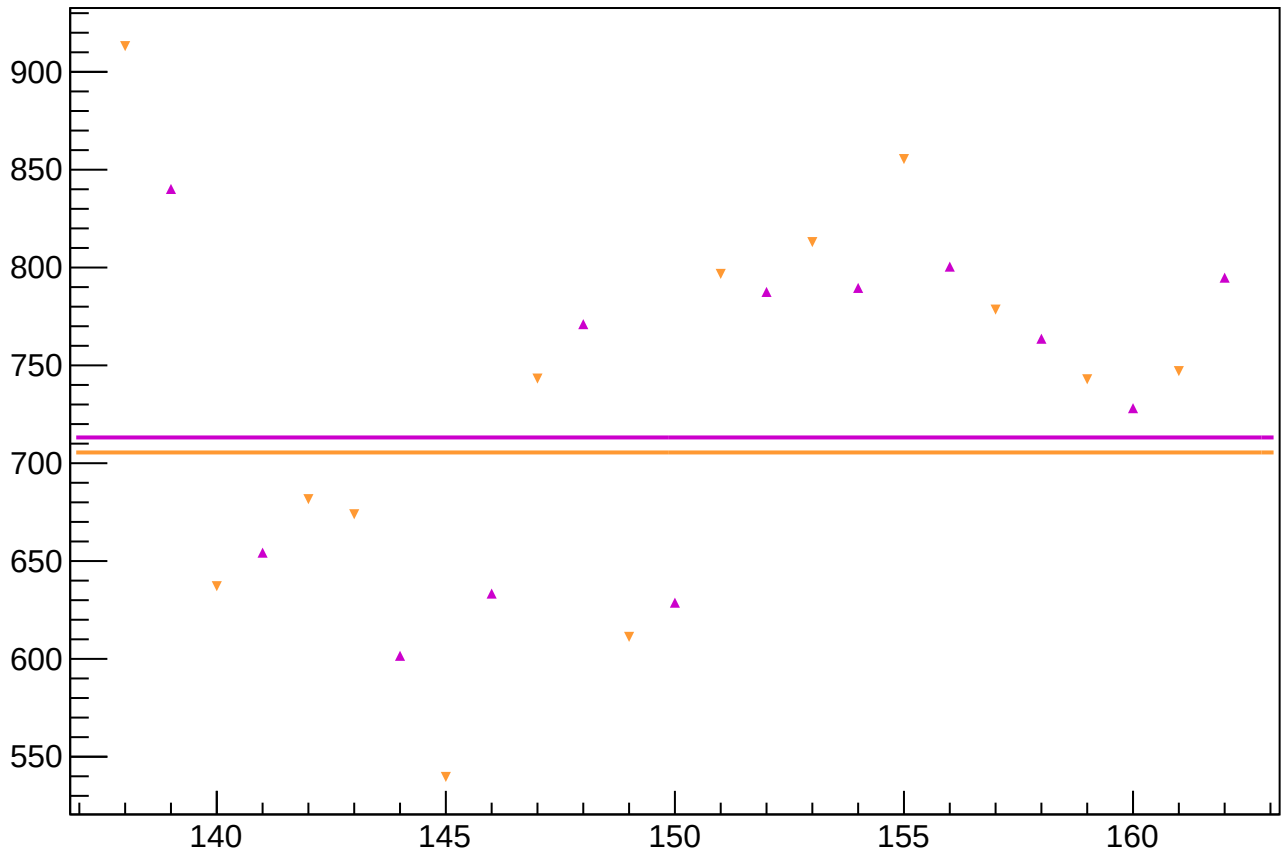
Left In: -347.360 $\pm$ 229.483  $\chi^2$ /NDF:8.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -775.306 $\pm$ 161.492  $\chi^2$ /NDF: 29.5/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1548\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 705.497+/-0.161  $\chi^2/\text{NDF}$ : 404732.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

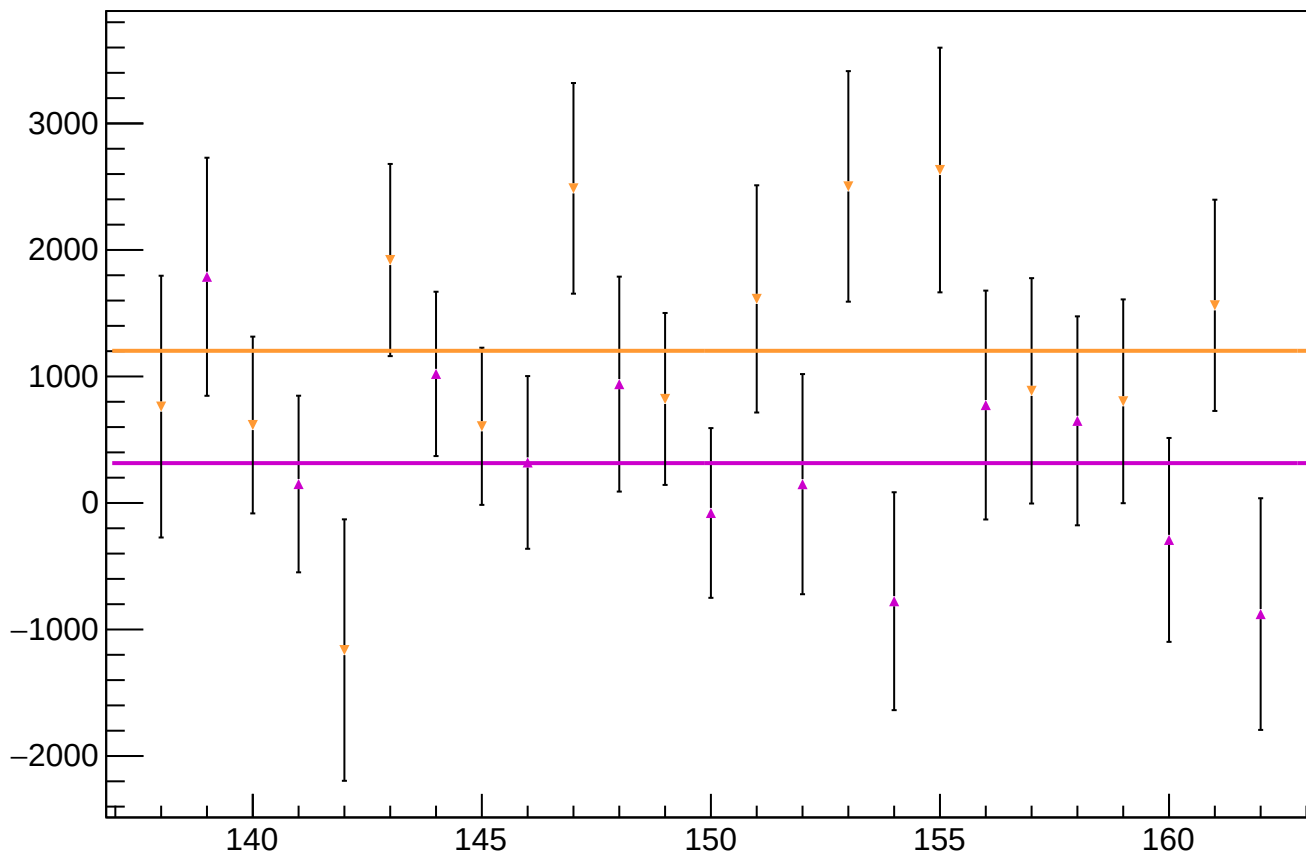
Left In: 713.162+/-0.162  $\chi^2/\text{NDF}$ : 246714.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 709.293+/-0.114  $\chi^2/\text{NDF}$ : 652572.8/24

- 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: 1202.872+/-225.855  $\chi^2/\text{NDF}$ : 15.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

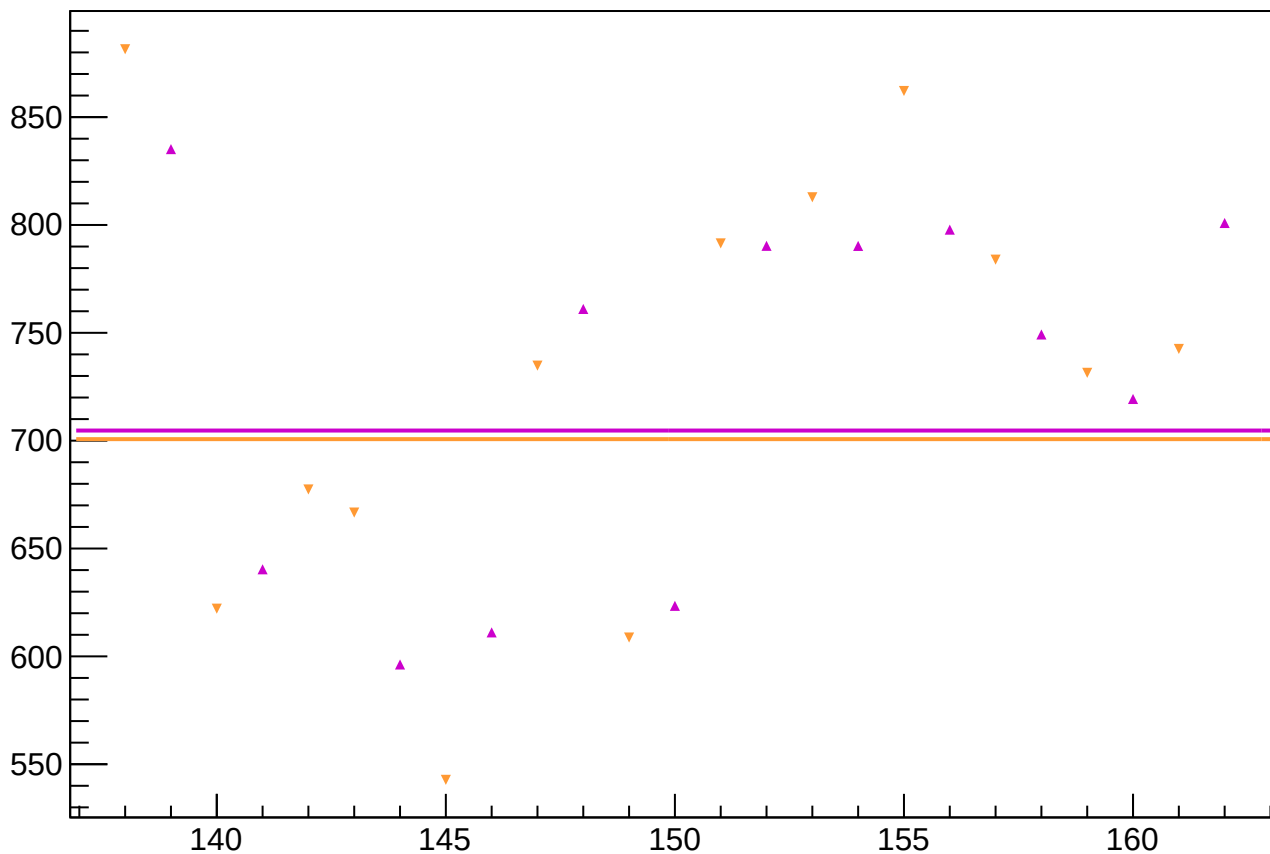
Left In: 315.131+/-227.054  $\chi^2/\text{NDF}$ : 8.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 761.352+/-160.126  $\chi^2/\text{NDF}$ : 32.2/24

- 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: 700.709+/-0.160  $\chi^2/\text{NDF}$ : 392546.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

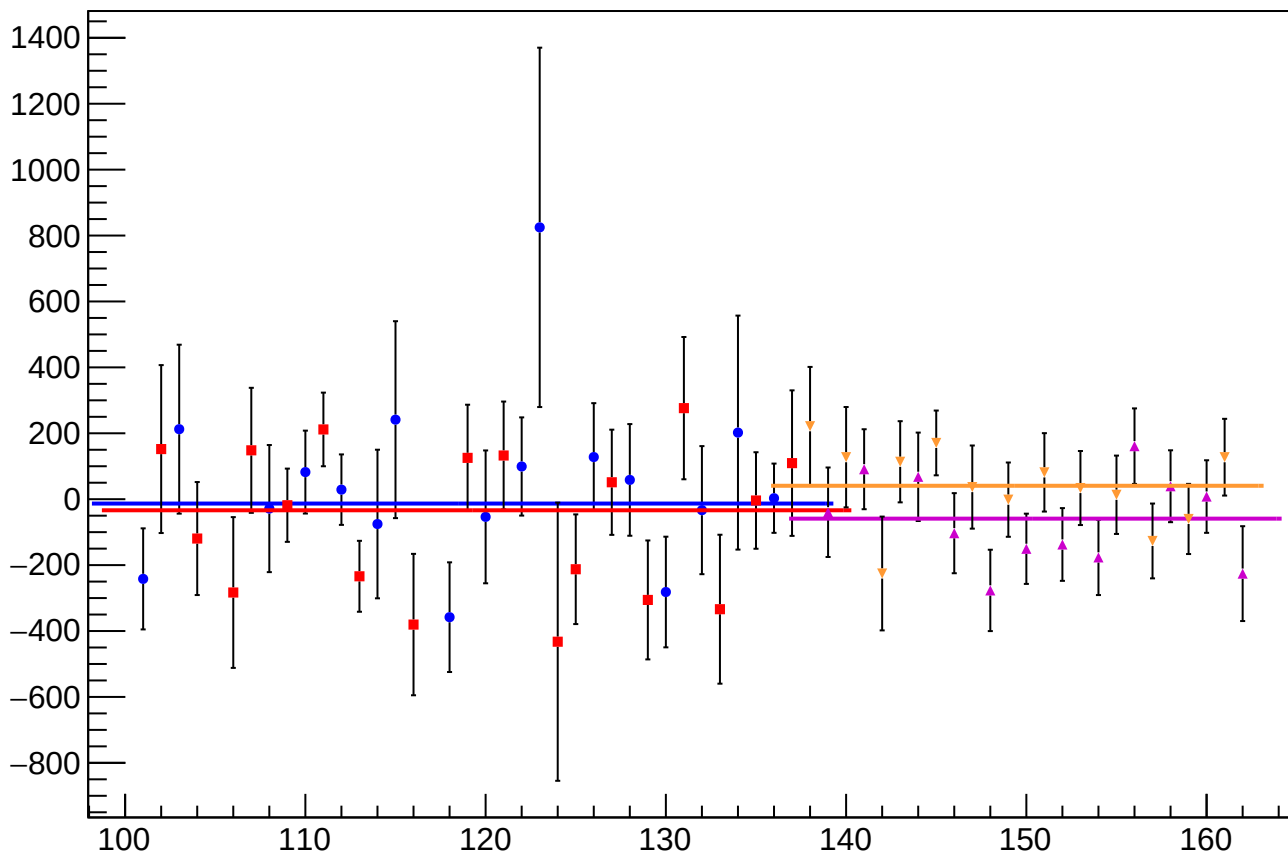
Left In: 704.698+/-0.161  $\chi^2/\text{NDF}$ : 275871.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 702.693+/-0.113  $\chi^2/\text{NDF}$ : 668728.2/24

- 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:  $40.745 \pm 33.730$   $\chi^2/\text{NDF}$ : 9.7/12

Right Out:  $-33.637 \pm 38.891$   $\chi^2/\text{NDF}$ : 24.7/17

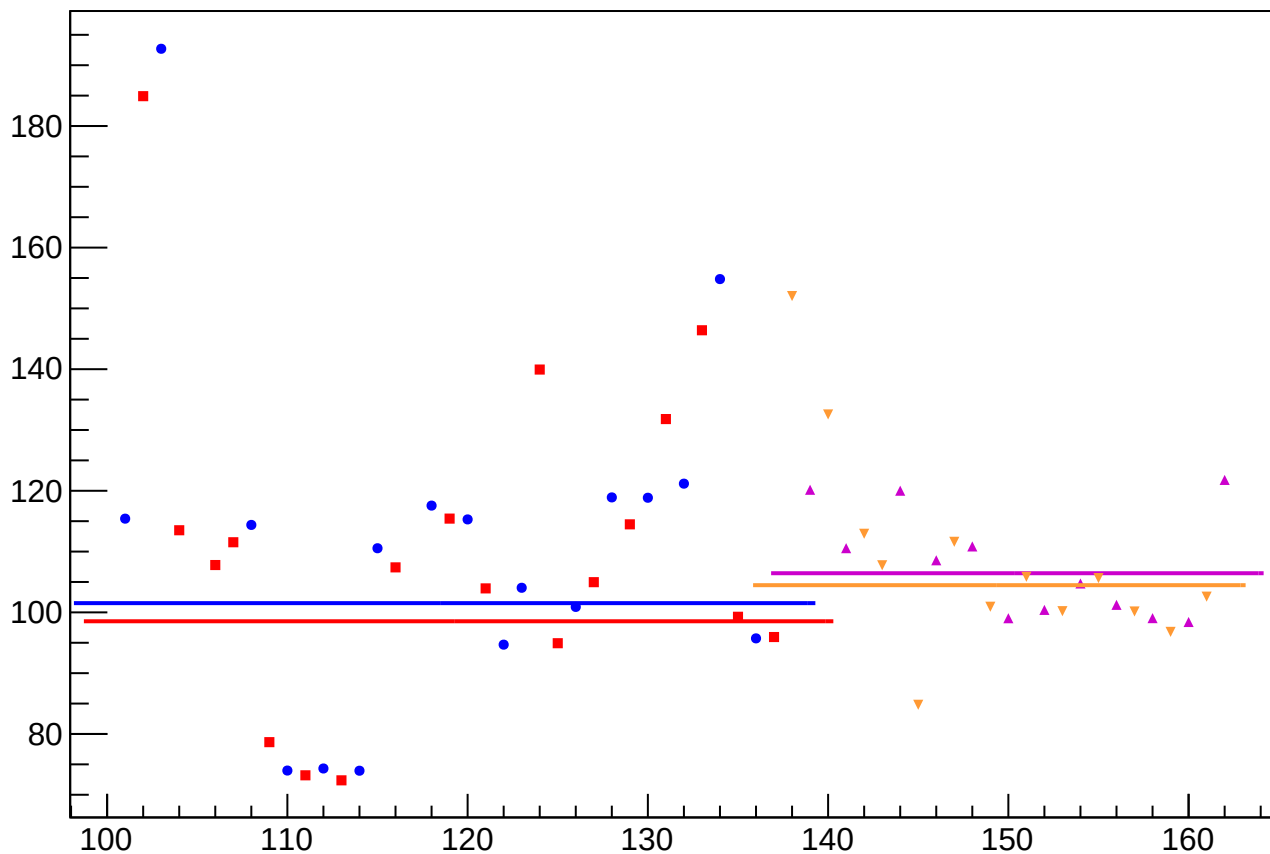
Left In:  $-59.002 \pm 34.322$   $\chi^2/\text{NDF}$ : 14.2/11

+ sign  $18.680 \pm 25.933$   $\chi^2/\text{NDF}$ : 26.5/29

All:  $-14.864 \pm 18.266$   $\chi^2/\text{NDF}$ : 68.9/59

- sign  $-47.896 \pm 25.734$   $\chi^2/\text{NDF}$ : 39.1/29

# dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 101.519 $\pm$ 0.029  $\chi^2$ /NDF: 681713.7/16

Left Out: 104.473 $\pm$ 0.024  $\chi^2$ /NDF: 319654.6/12

Right Out: 98.537 $\pm$ 0.028  $\chi^2$ /NDF: 746979.4/17

Left In: 106.439 $\pm$ 0.024  $\chi^2$ /NDF: 109121.5/11

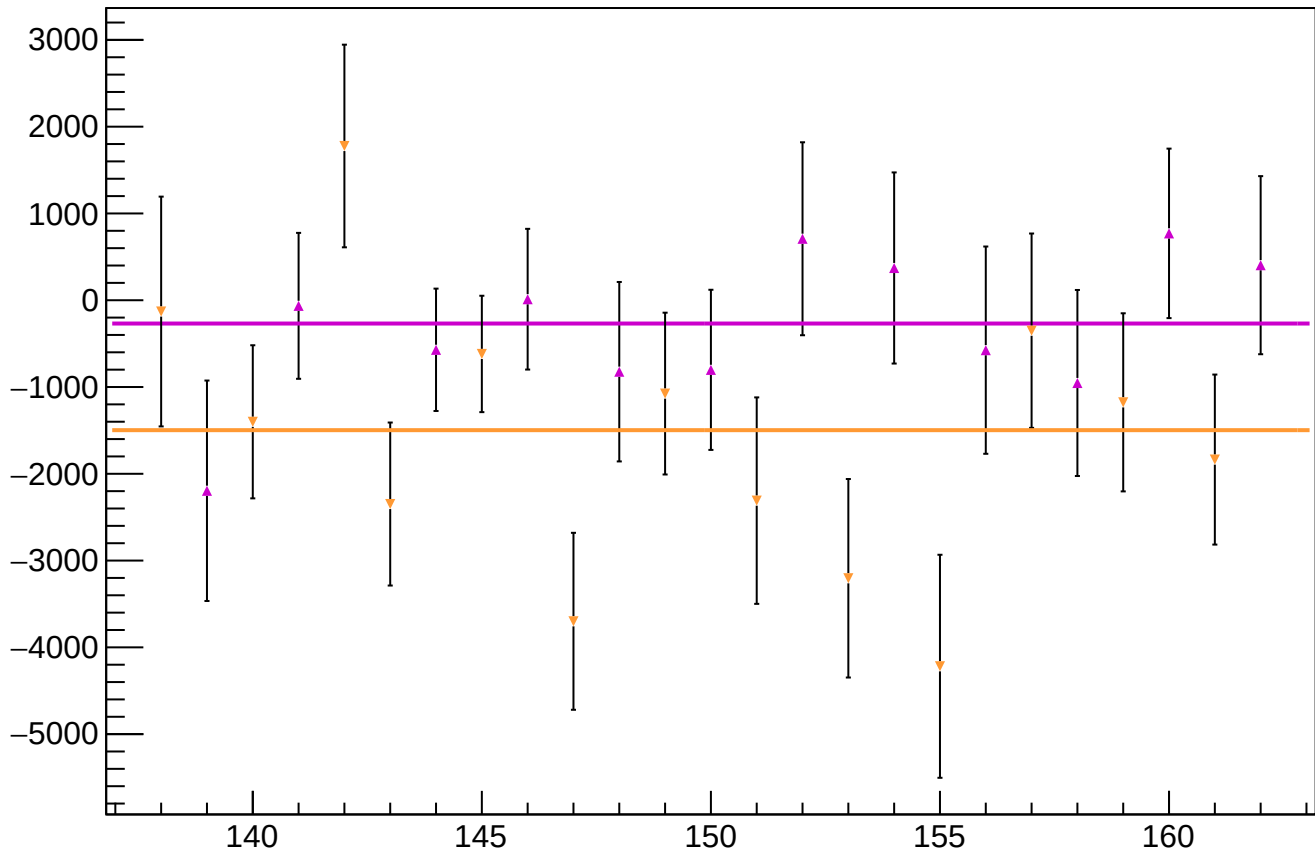
+ sign 103.265 $\pm$ 0.018  $\chi^2$ /NDF: 1007640.7/29

All: 103.121 $\pm$ 0.013  $\chi^2$ /NDF: 1910289.0/59

- sign 102.979 $\pm$ 0.018  $\chi^2$ /NDF: 902525.7/29



# asym\_sam\_3748\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1497.267 $\pm$ 278.156  $\chi^2$ /NDF:24.8/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

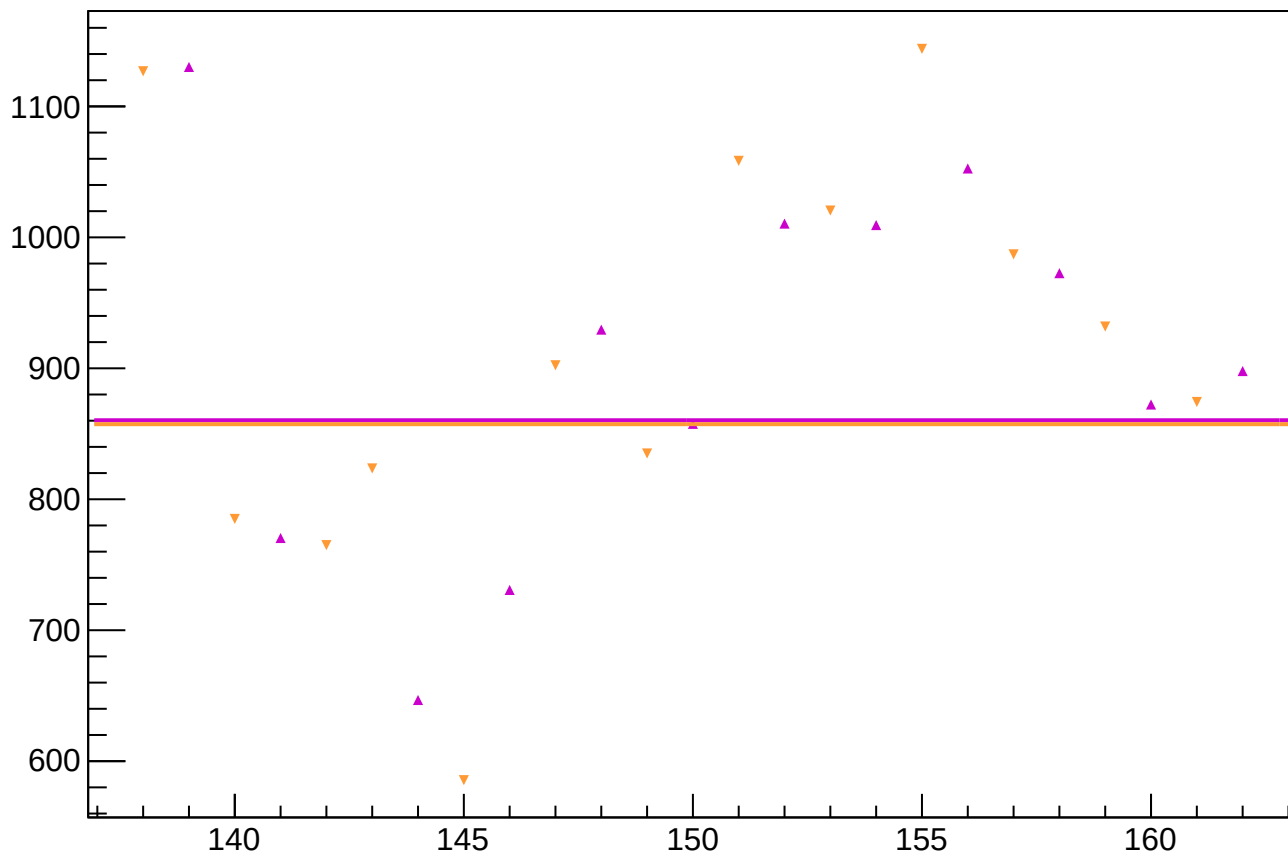
Left In: -268.485 $\pm$ 278.623  $\chi^2$ /NDF:6.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -883.906 $\pm$ 196.851  $\chi^2$ /NDF: 41.0/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 857.338+/-0.197  $\chi^2/\text{NDF}$ : 680489.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

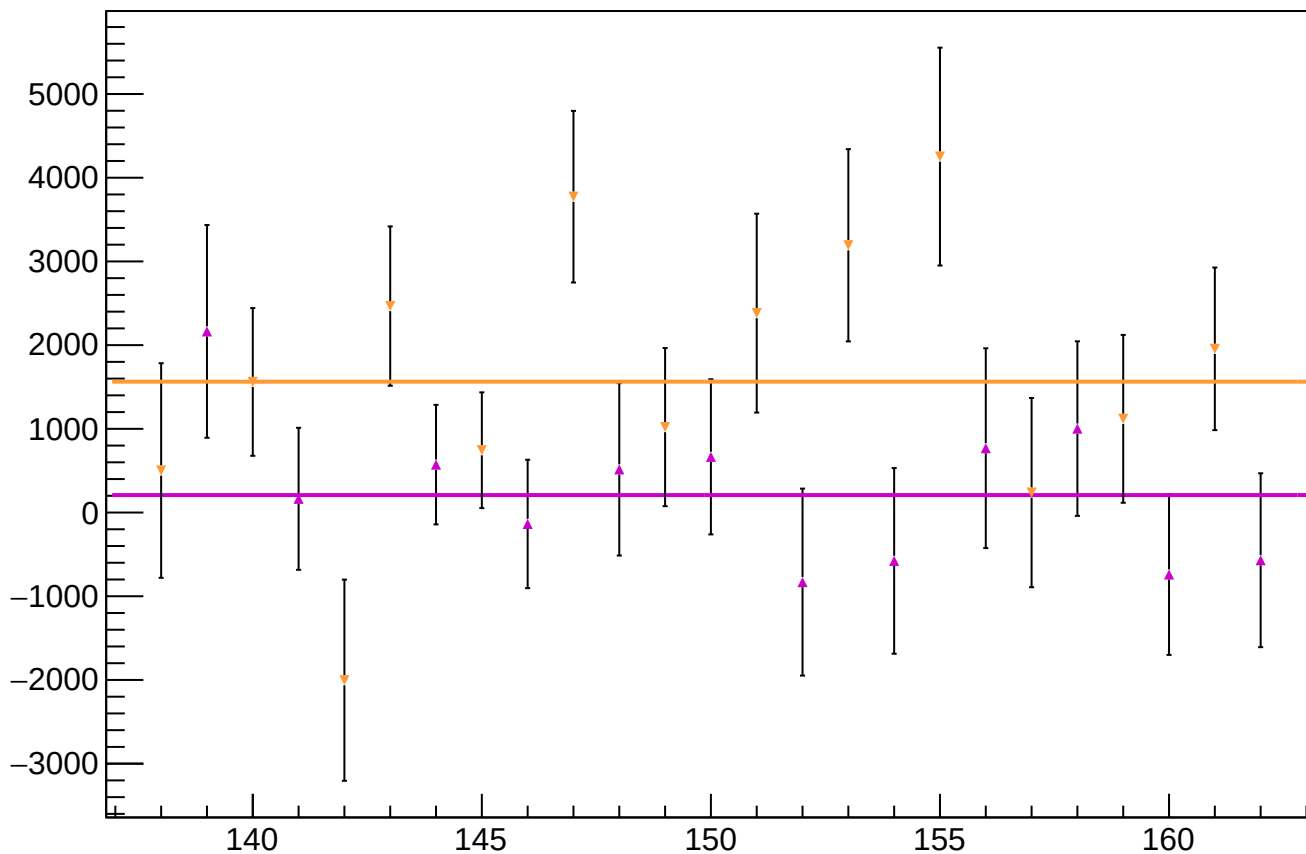
Left In: 860.335+/-0.197  $\chi^2/\text{NDF}$ : 506714.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 858.834+/-0.139  $\chi^2/\text{NDF}$ : 1187319.9/24

- 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: 1563.474+/-280.069  $\chi^2/\text{NDF}$ :25.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

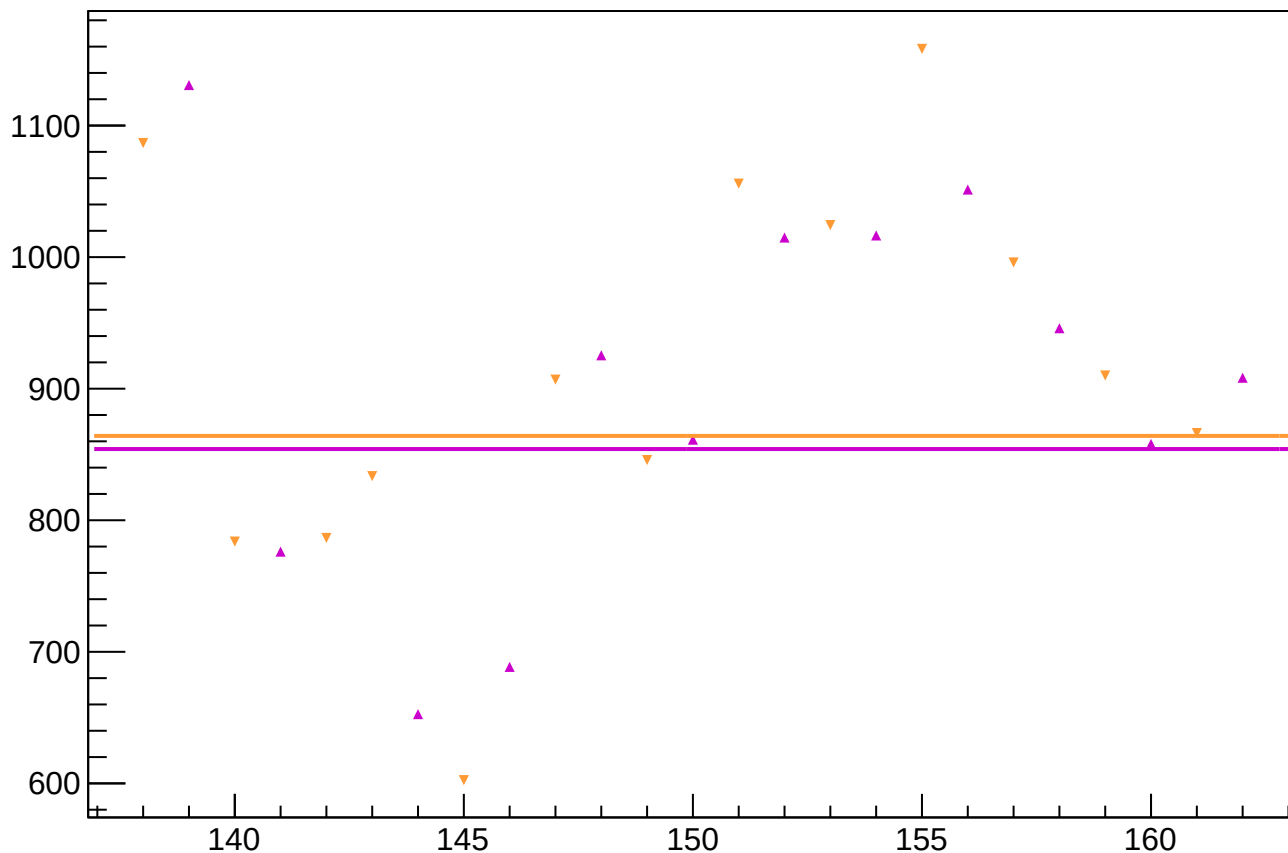
Left In: 208.567+/-277.097  $\chi^2/\text{NDF}$ :6.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 878.794+/-196.979  $\chi^2/\text{NDF}$ : 44.0/24

- 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: 864.113+/-0.198  $\chi^2/\text{NDF}$ : 602508.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

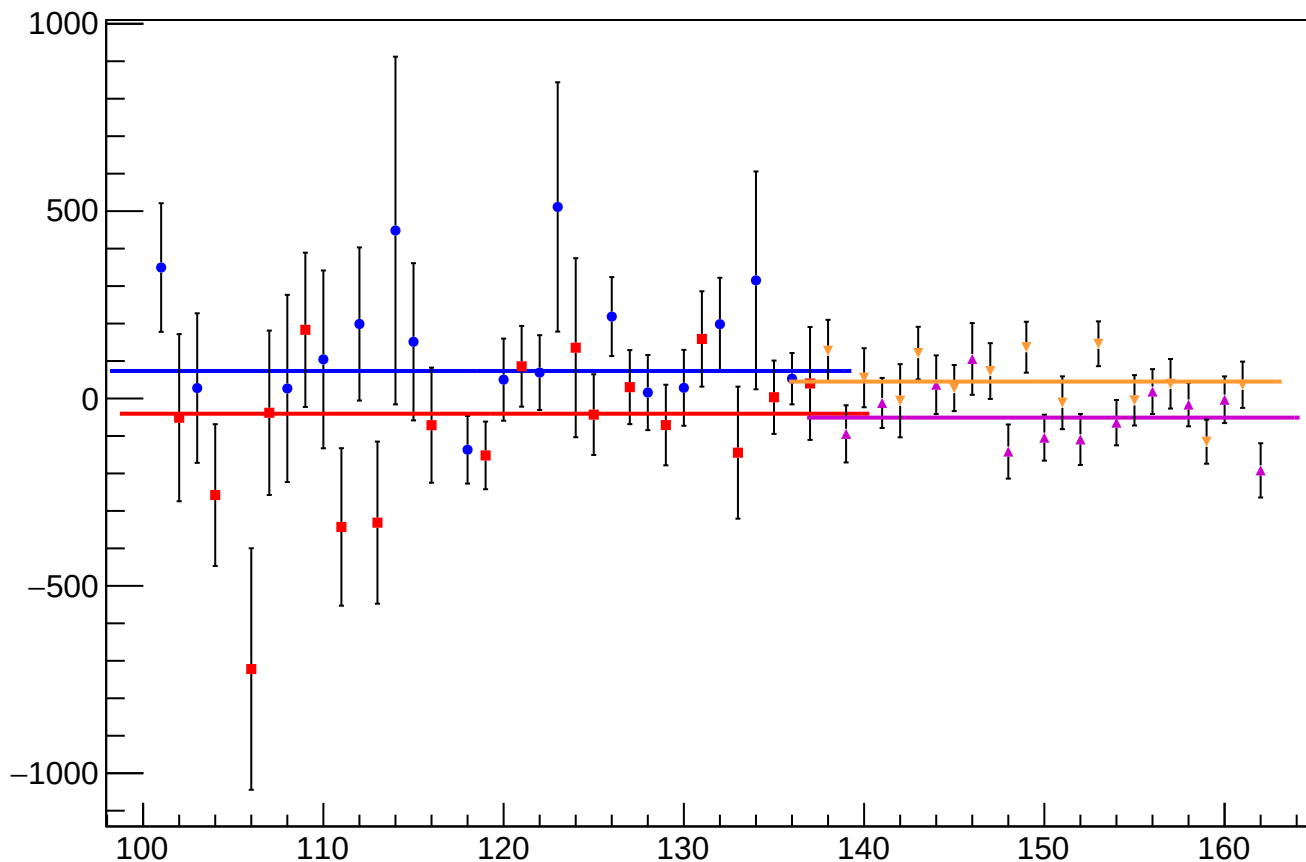
Left In: 854.127+/-0.196  $\chi^2/\text{NDF}$ : 533668.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 859.067+/-0.139  $\chi^2/\text{NDF}$ : 1137462.6/24

- 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: 45.162 $\pm$ 19.035  $\chi^2$ /NDF: 16.0/12

Right Out: -40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

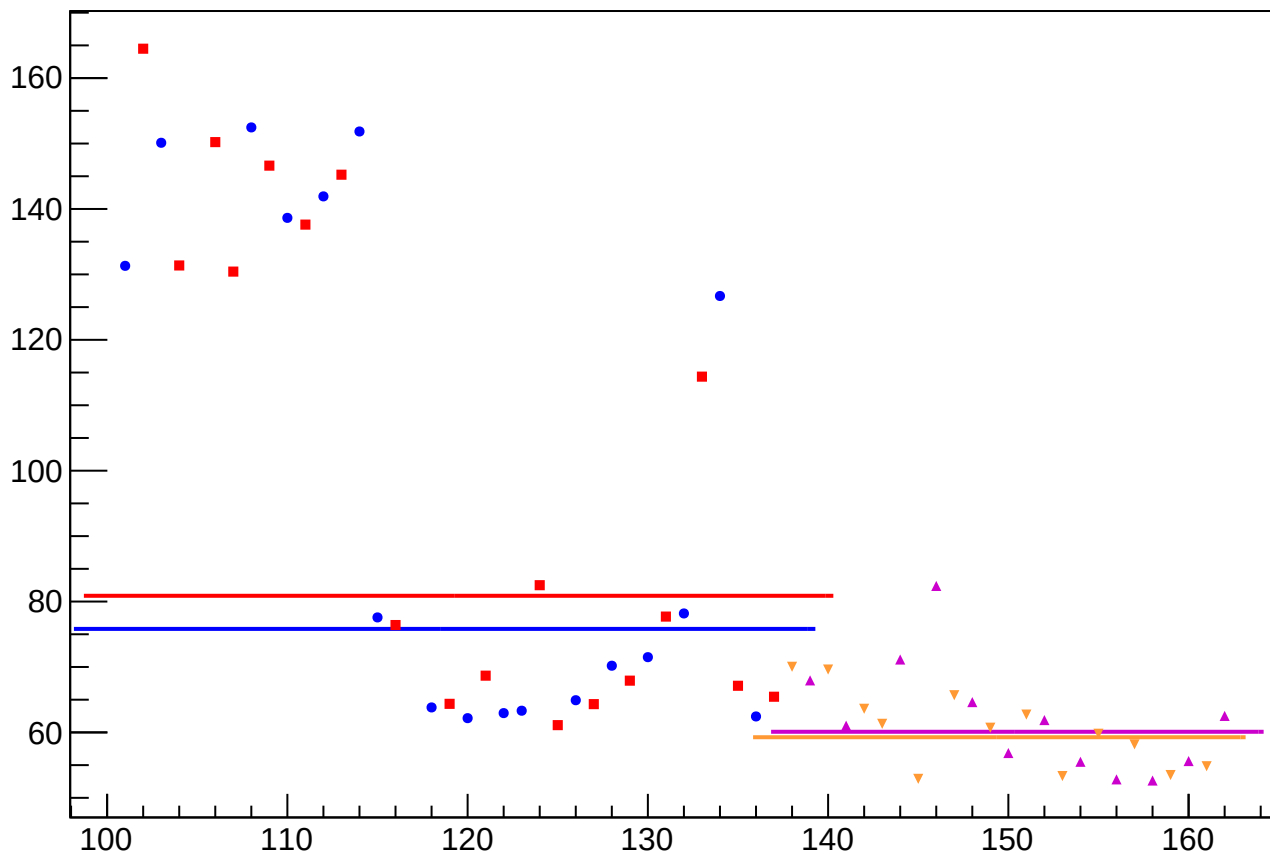
Left In: -51.006 $\pm$ 19.466  $\chi^2$ /NDF: 13.8/11

+ sign 52.885 $\pm$ 16.230  $\chi^2$ /NDF: 31.9/29

All: 3.843 $\pm$ 11.650  $\chi^2$ /NDF: 82.8/59

- sign -48.287 $\pm$ 16.733  $\chi^2$ /NDF: 32.1/29

# dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 75.820+/-0.022     $\chi^2/\text{NDF}$ : 1349961.8/16

Left Out: 59.262+/-0.013     $\chi^2/\text{NDF}$ : 166241.2/12

Right Out: 80.881+/-0.023     $\chi^2/\text{NDF}$ : 1526044.5/17

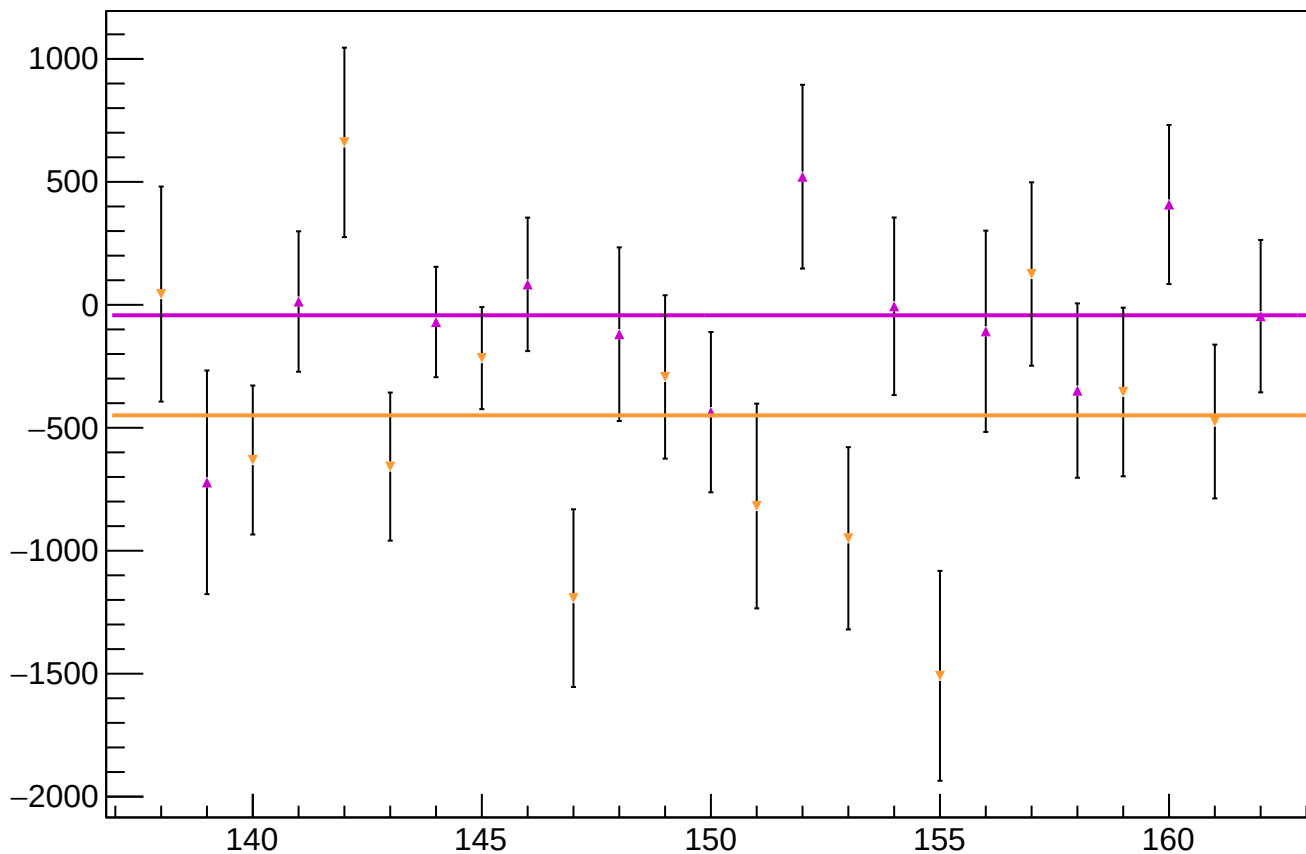
Left In: 60.098+/-0.014     $\chi^2/\text{NDF}$ : 271281.2/11

+ sign 63.783+/-0.011     $\chi^2/\text{NDF}$ : 1929386.9/29

All: 64.627+/-0.008     $\chi^2/\text{NDF}$ : 4333218.1/59

- sign 65.525+/-0.012     $\chi^2/\text{NDF}$ : 2392659.6/29

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -449.327+/-91.947  $\chi^2/\text{NDF}$ : 27.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

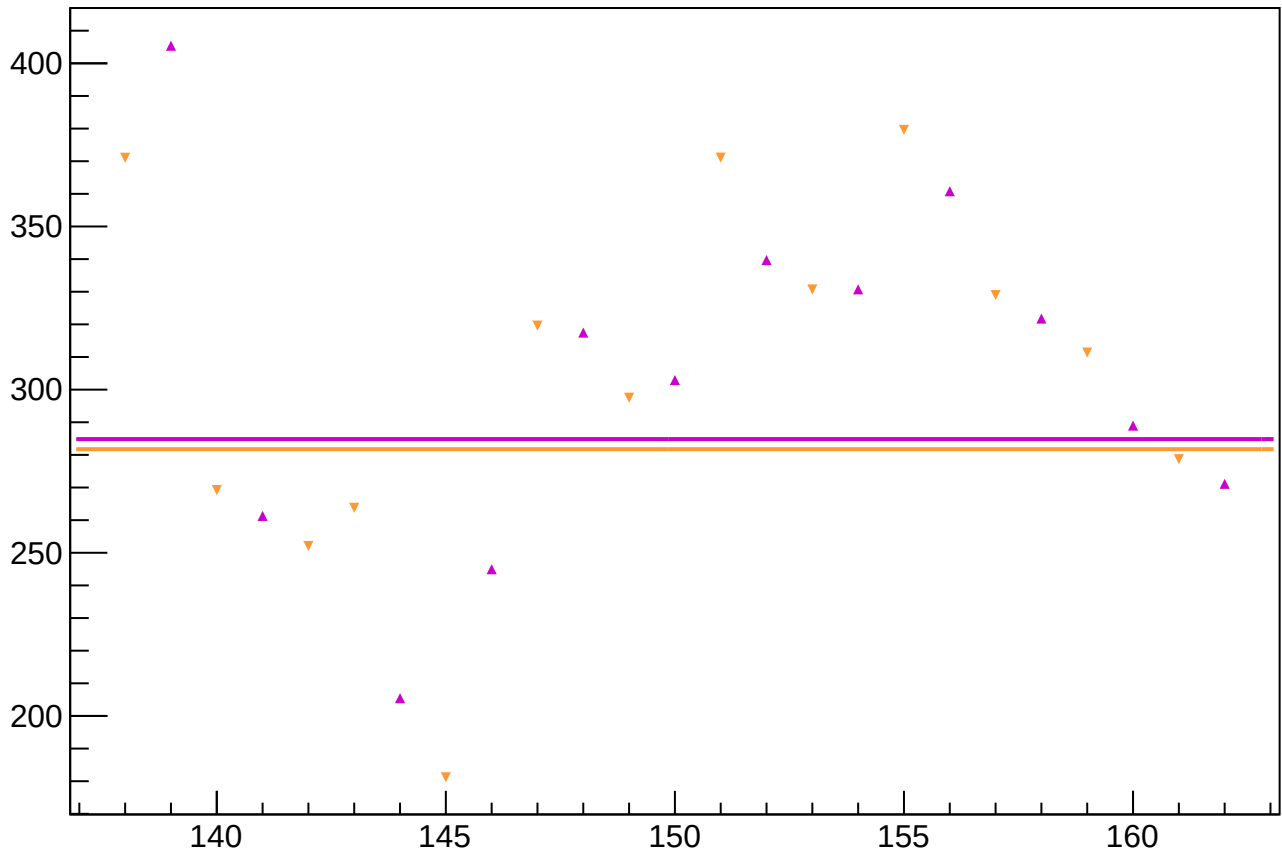
Left In: -42.463+/-92.589  $\chi^2/\text{NDF}$ : 9.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -247.310+/-65.242  $\chi^2/\text{NDF}$ : 46.1/24

- 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: 281.747+/-0.065  $\chi^2/\text{NDF}$ :881120.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 284.843+/-0.065  $\chi^2/\text{NDF}$ :640749.3/11

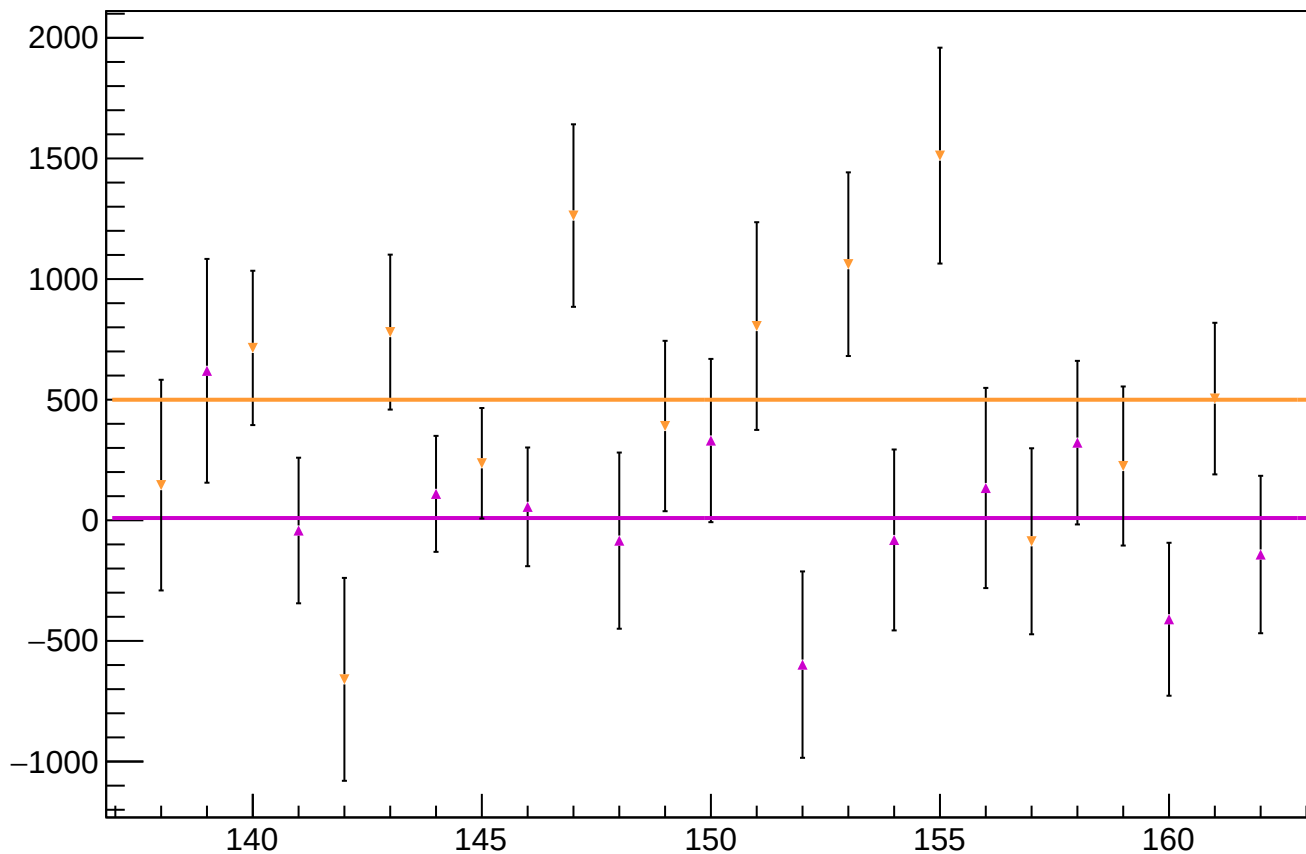
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 283.285+/-0.046  $\chi^2/\text{NDF}$ : 1522996.2/24

- 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: 499.786+/-96.328  $\chi^2/\text{NDF}$ : 25.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

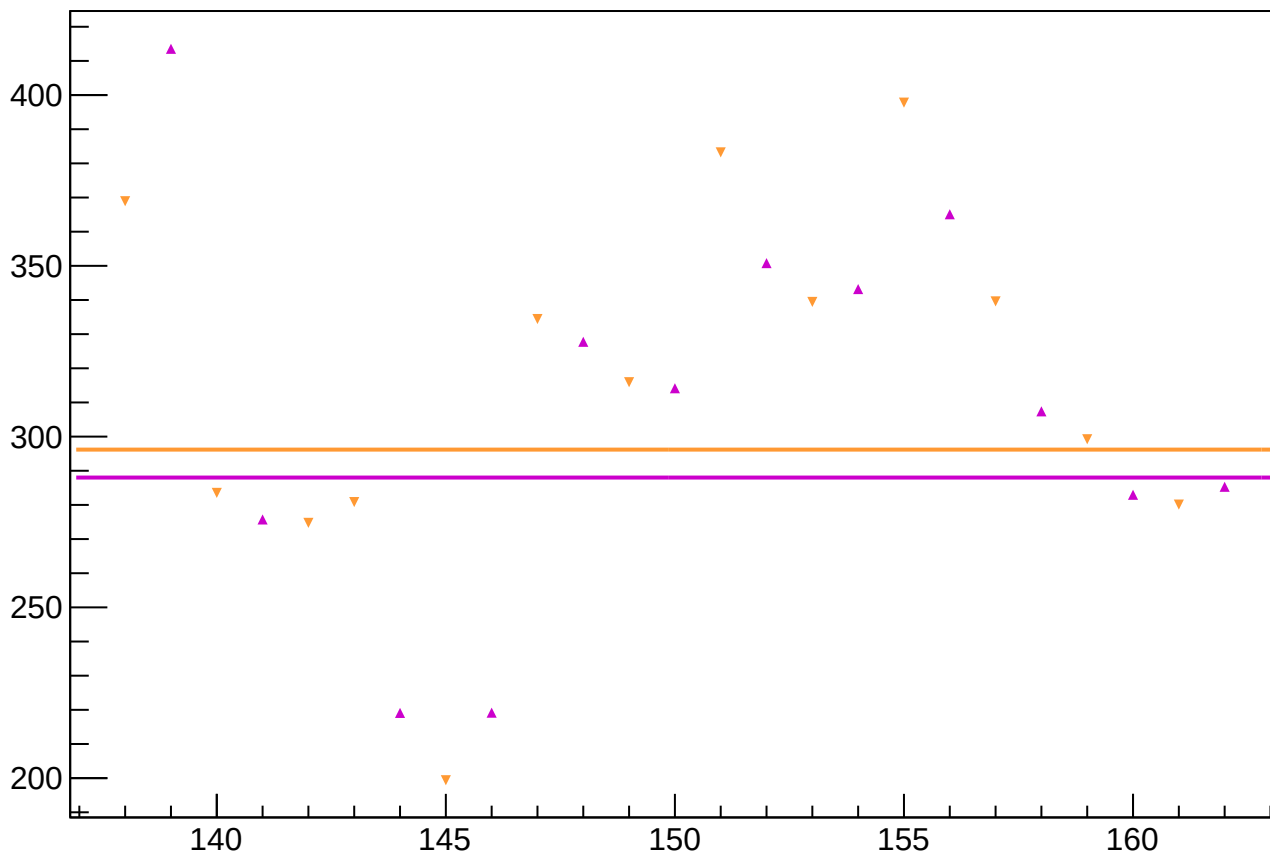
Left In: 9.388+/-93.933  $\chi^2/\text{NDF}$ : 8.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 248.416+/-67.251  $\chi^2/\text{NDF}$ : 47.4/24

- 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: 296.194+/-0.068  $\chi^2/\text{NDF}$ : 693581.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

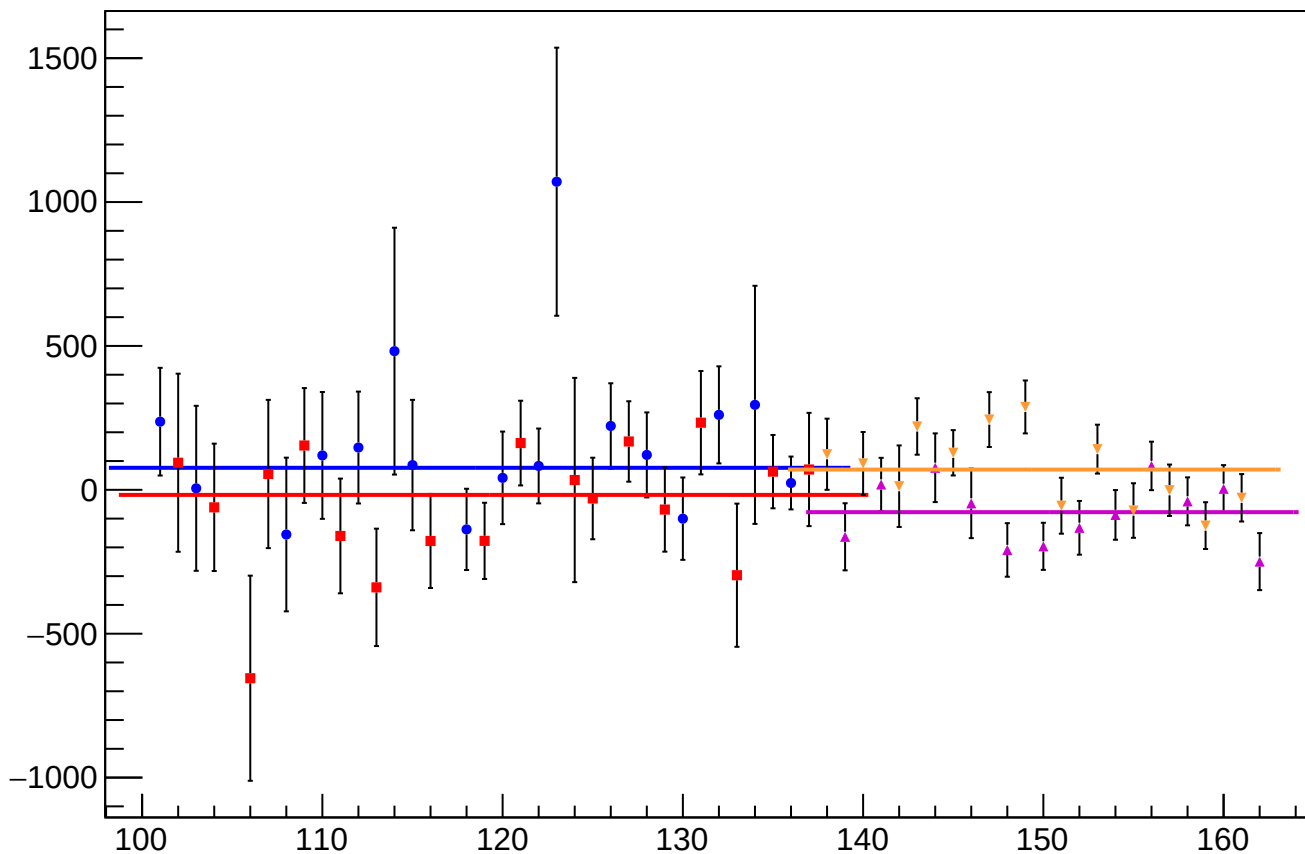
Left In: 288.010+/-0.066  $\chi^2/\text{NDF}$ : 678671.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 291.999+/-0.048  $\chi^2/\text{NDF}$ : 1379653.3/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 76.503+/-41.558  $\chi^2/\text{NDF}$ : 13.9/16

Left Out: 70.347+/-26.062  $\chi^2/\text{NDF}$ : 24.6/12

Right Out: -17.605+/-42.297  $\chi^2/\text{NDF}$ : 16.8/17

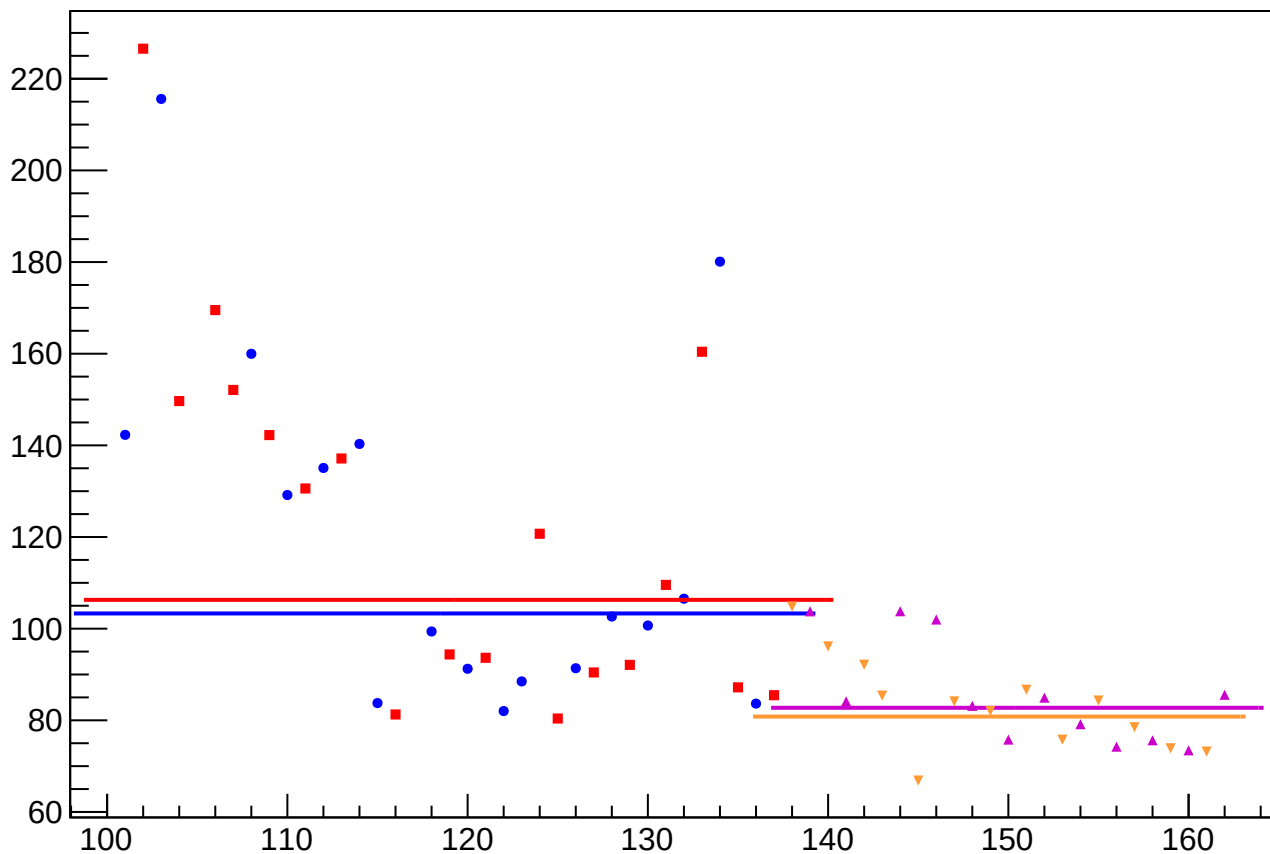
Left In: -77.621+/-26.949  $\chi^2/\text{NDF}$ : 15.6/11

+ sign 72.085+/-22.079  $\chi^2/\text{NDF}$ : 38.5/29

All: 7.811+/-15.837  $\chi^2/\text{NDF}$ : 89.9/59

- sign -60.293+/-22.728  $\chi^2/\text{NDF}$ : 33.9/29

# dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In:  $103.318 \pm 0.029$   $\chi^2/\text{NDF}$ : 837801.7/16

Left Out:  $80.816 \pm 0.018$   $\chi^2/\text{NDF}$ : 247479.4/12

Right Out:  $106.289 \pm 0.030$   $\chi^2/\text{NDF}$ : 1000708.3/17

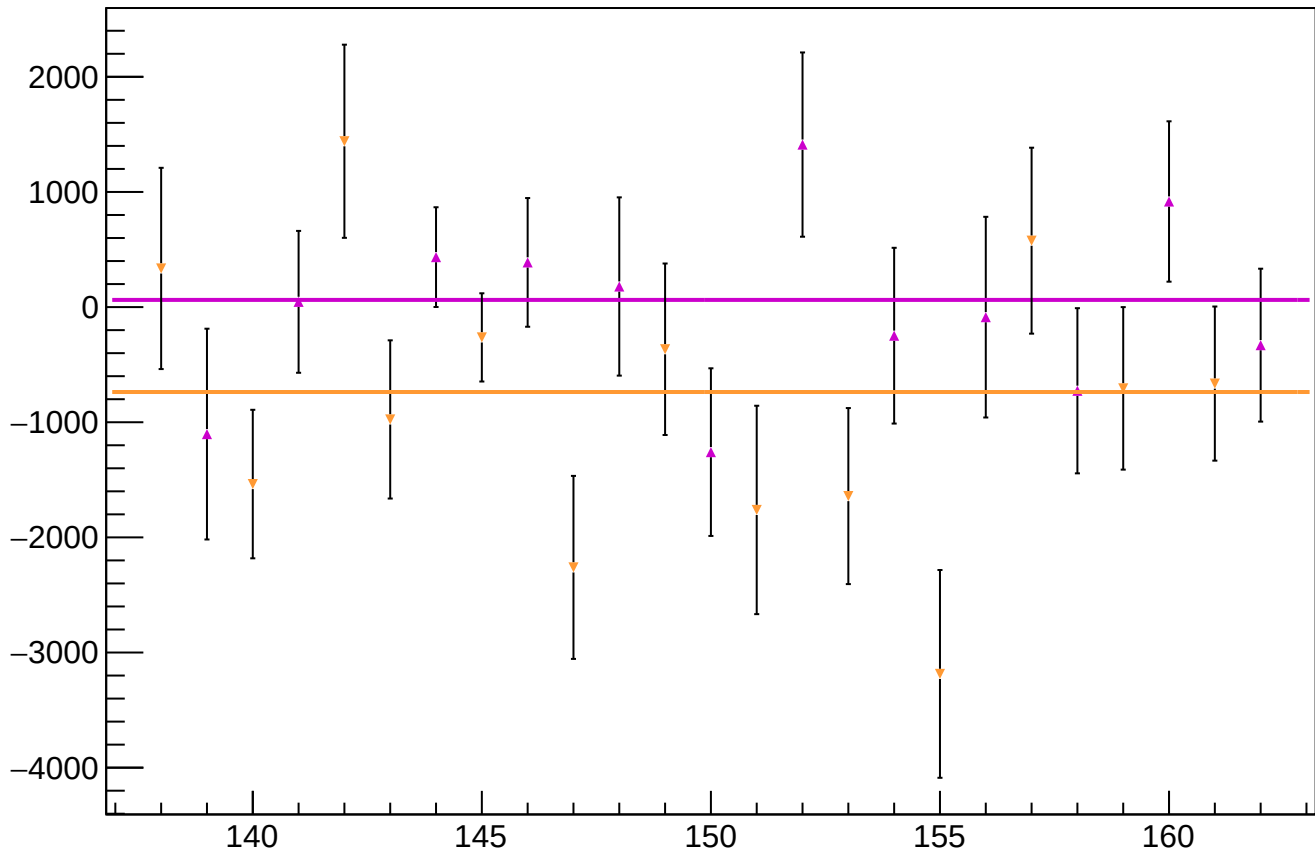
Left In:  $82.734 \pm 0.019$   $\chi^2/\text{NDF}$ : 259614.7/11

+ sign  $87.167 \pm 0.016$   $\chi^2/\text{NDF}$ : 1506139.5/29

All:  $88.317 \pm 0.011$   $\chi^2/\text{NDF}$ : 3218790.1/59

- sign  $89.535 \pm 0.016$   $\chi^2/\text{NDF}$ : 1701485.3/29

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -737.387+/-191.081  $\chi^2/\text{NDF}$ : 28.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

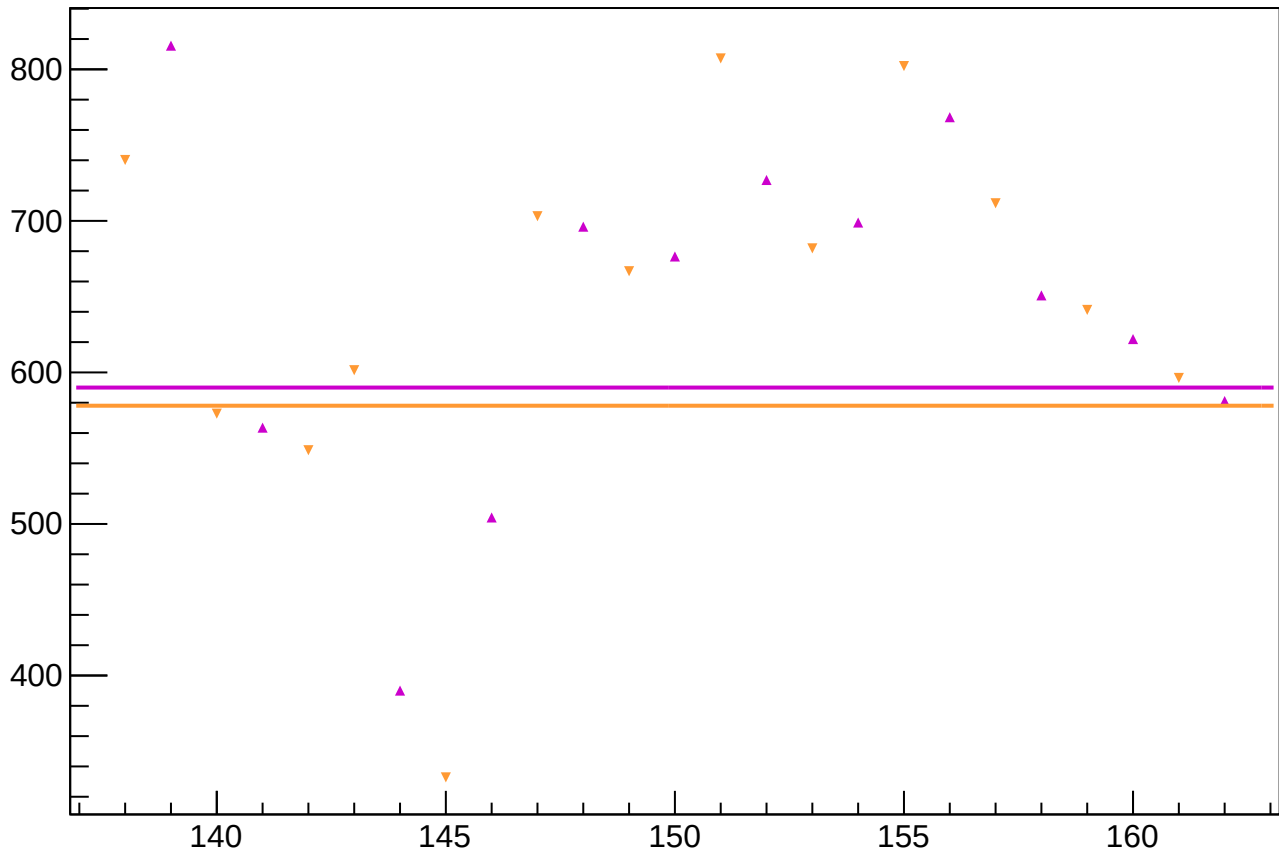
Left In: 62.513+/-193.224  $\chi^2/\text{NDF}$ : 12.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -341.897+/-135.866  $\chi^2/\text{NDF}$ : 48.8/24

- 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: 578.032+/-0.135  $\chi^2/\text{NDF}$ :1332215.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

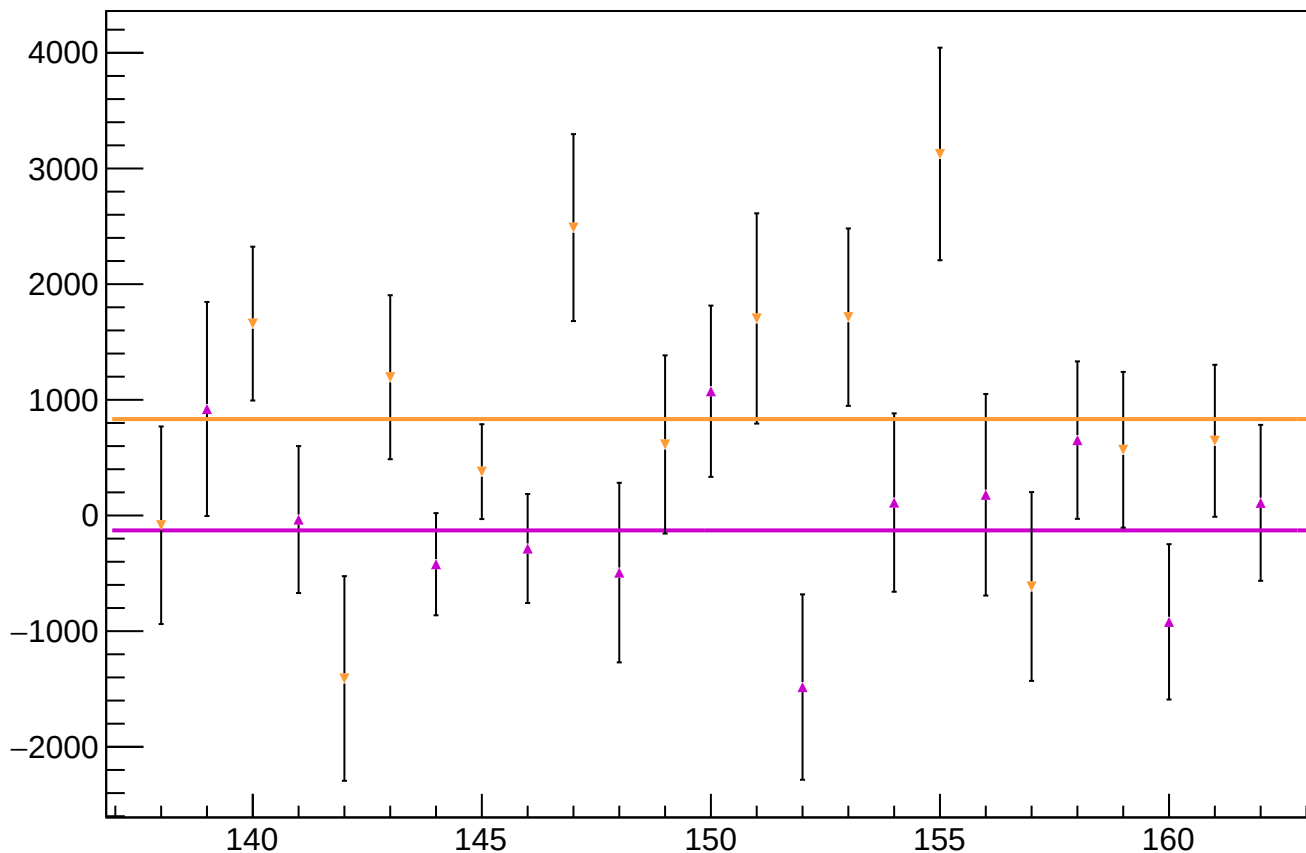
Left In: 590.010+/-0.137  $\chi^2/\text{NDF}$ :866427.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 583.955+/-0.096  $\chi^2/\text{NDF}$ : 2202528.5/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 833.394 $\pm$ 195.438  $\chi^2$ /NDF:26.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

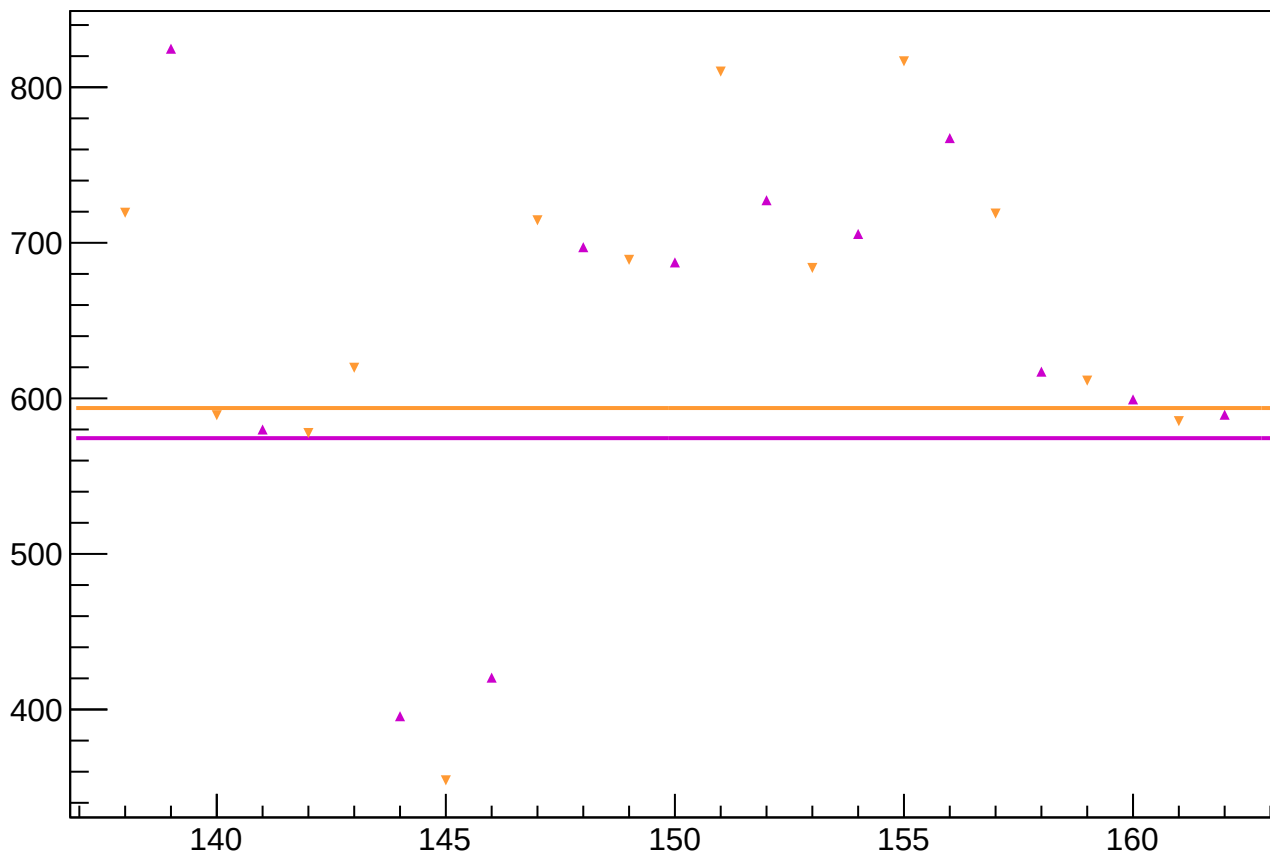
Left In: -128.873 $\pm$ 189.345  $\chi^2$ /NDF:10.6/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 337.028 $\pm$ 135.990  $\chi^2$ /NDF: 49.9/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 593.782+/-0.138  $\chi^2/\text{NDF}$ :1110332.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 574.423+/-0.134  $\chi^2/\text{NDF}$ :1024761.7/11

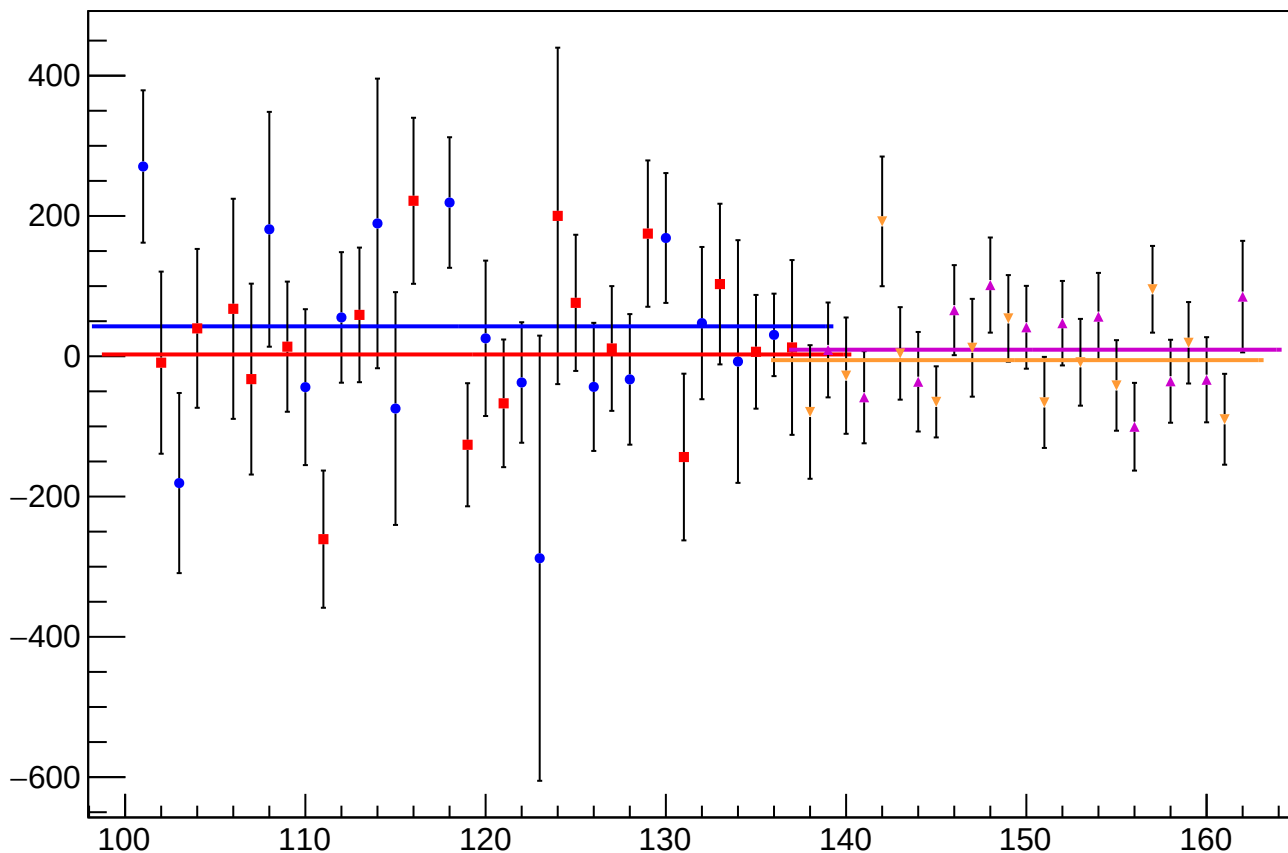
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 583.796+/-0.096  $\chi^2/\text{NDF}$ : 2145216.8/24

- 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:  $-5.531 \pm 18.272$   $\chi^2/\text{NDF}$ : 13.4/12

Right Out:  $2.576 \pm 25.088$   $\chi^2/\text{NDF}$ : 20.4/17

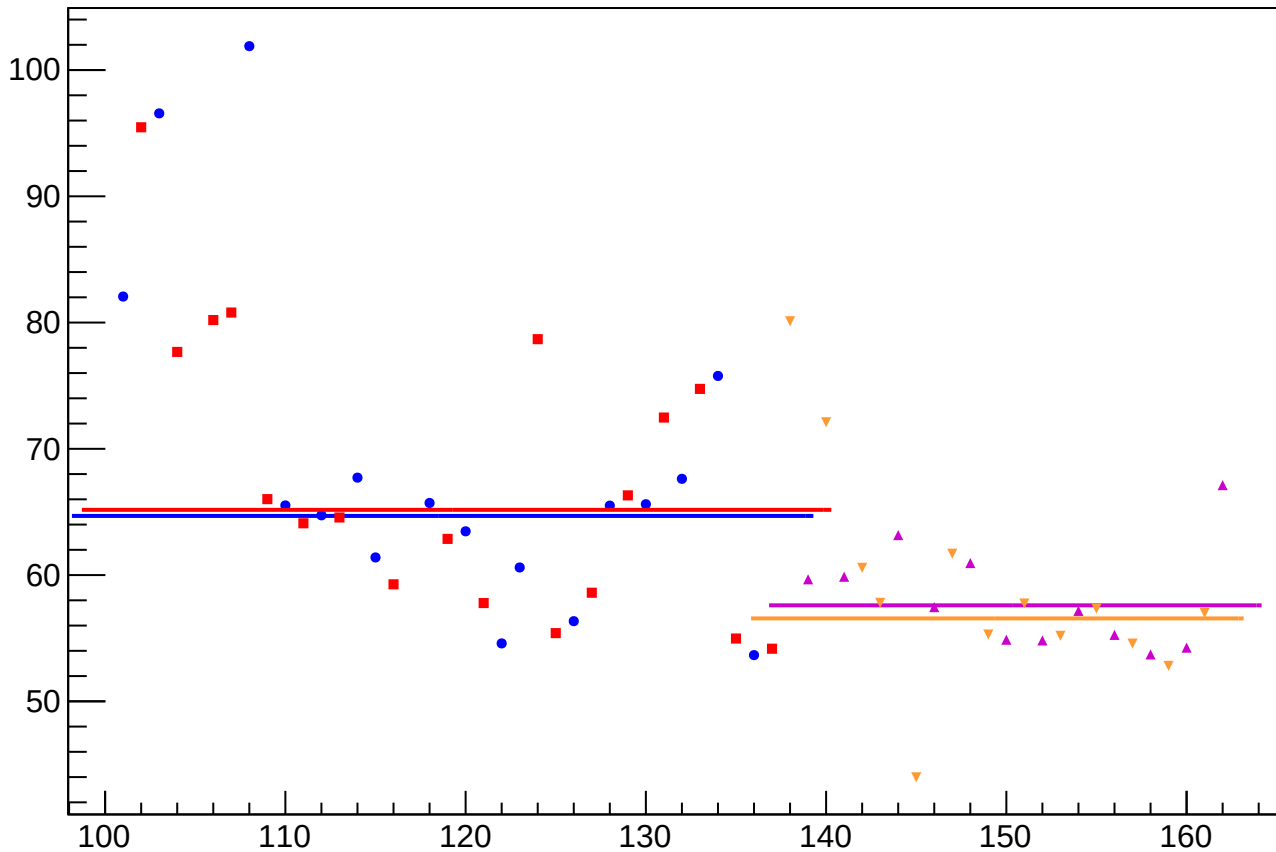
Left In:  $9.341 \pm 18.568$   $\chi^2/\text{NDF}$ : 10.4/11

+ sign  $10.828 \pm 14.850$   $\chi^2/\text{NDF}$ : 34.6/29

All:  $8.897 \pm 10.527$   $\chi^2/\text{NDF}$ : 65.5/59

- sign  $6.947 \pm 14.925$   $\chi^2/\text{NDF}$ : 30.9/29

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In:  $64.685 \pm 0.018$   $\chi^2/\text{NDF}$ : 400187.1/16

Left Out:  $56.567 \pm 0.013$   $\chi^2/\text{NDF}$ : 344338.4/12

Right Out:  $65.167 \pm 0.018$   $\chi^2/\text{NDF}$ : 304580.7/17

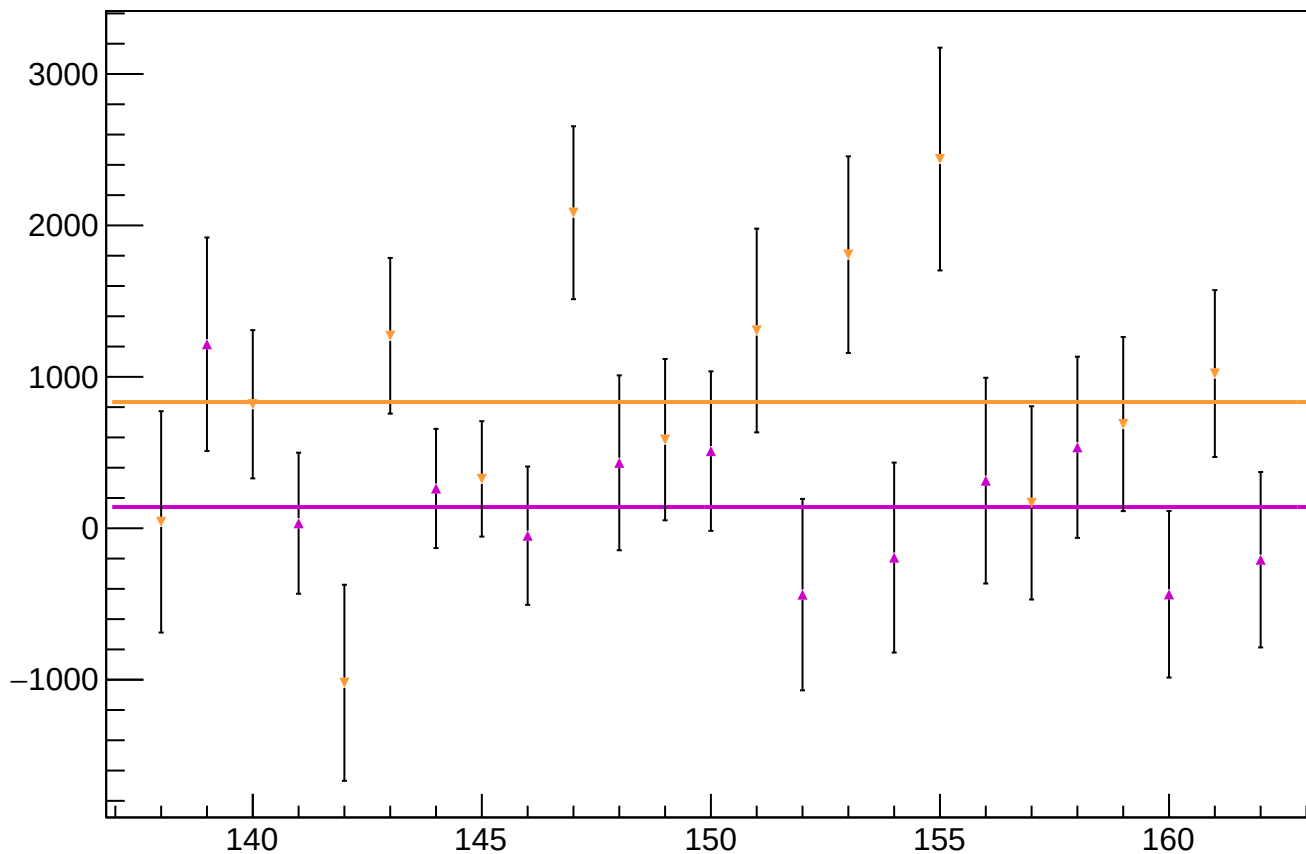
Left In:  $57.604 \pm 0.013$   $\chi^2/\text{NDF}$ : 76276.5/11

+ sign  $59.323 \pm 0.011$   $\chi^2/\text{NDF}$ : 878576.9/29

All:  $59.799 \pm 0.007$   $\chi^2/\text{NDF}$ : 1381018.6/59

- sign  $60.281 \pm 0.011$   $\chi^2/\text{NDF}$ : 498305.8/29

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 834.086+/-156.375  $\chi^2/\text{NDF}$ : 25.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

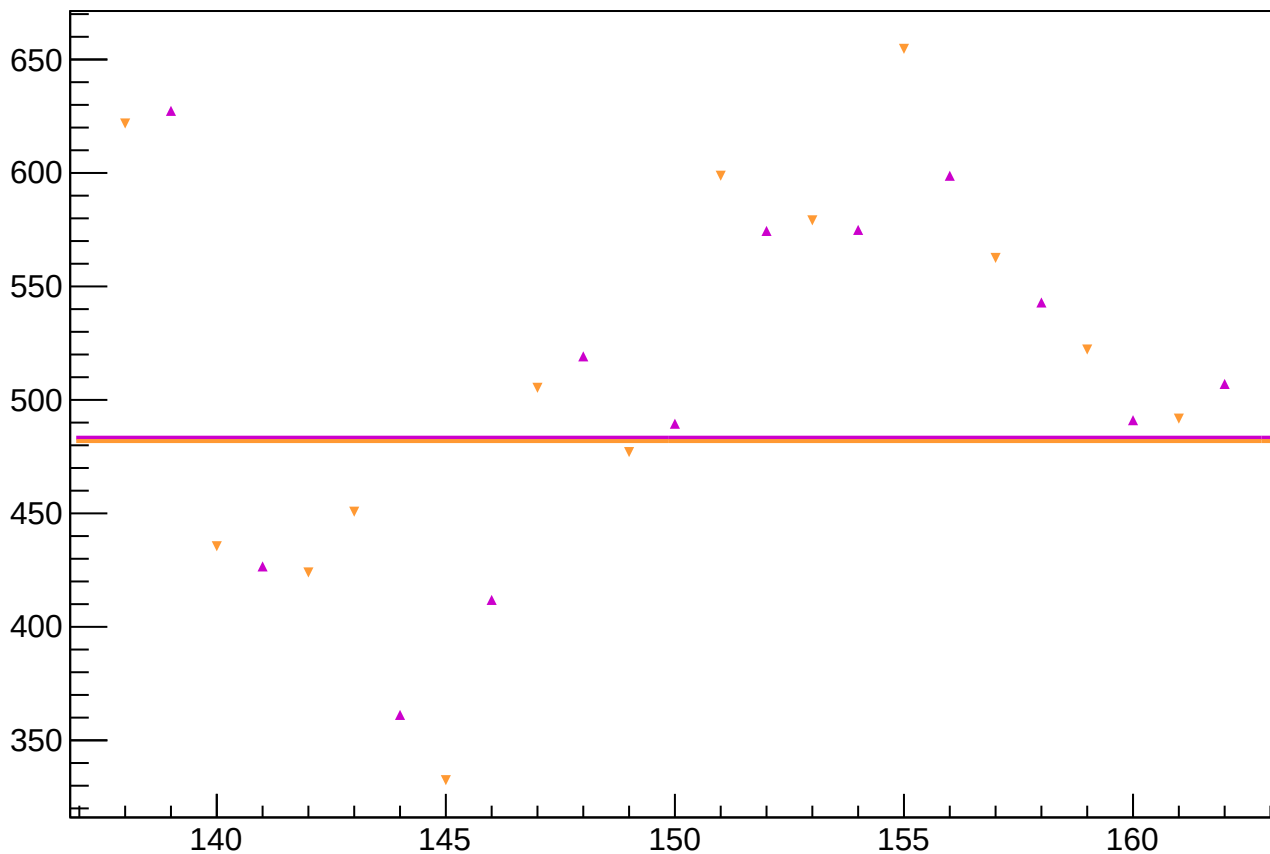
Left In: 140.378+/-156.610  $\chi^2/\text{NDF}$ : 6.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.753+/-110.657  $\chi^2/\text{NDF}$ : 42.0/24

- 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: 481.863+/-0.111  $\chi^2/\text{NDF}$ : 683750.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

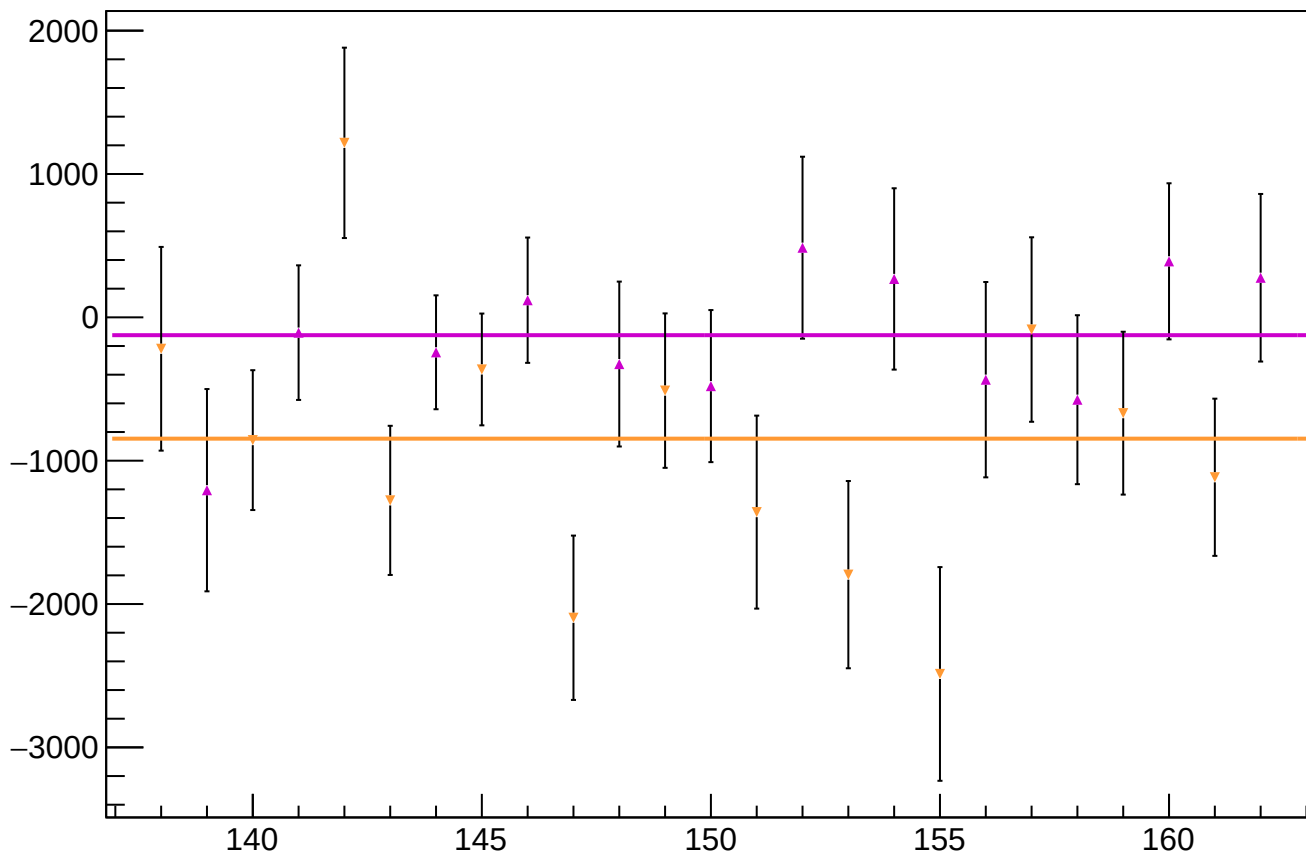
Left In: 483.348+/-0.111  $\chi^2/\text{NDF}$ : 528272.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 482.605+/-0.078  $\chi^2/\text{NDF}$ : 1212112.2/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -846.294 $\pm$ 157.324  $\chi^2$ /NDF:27.1/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

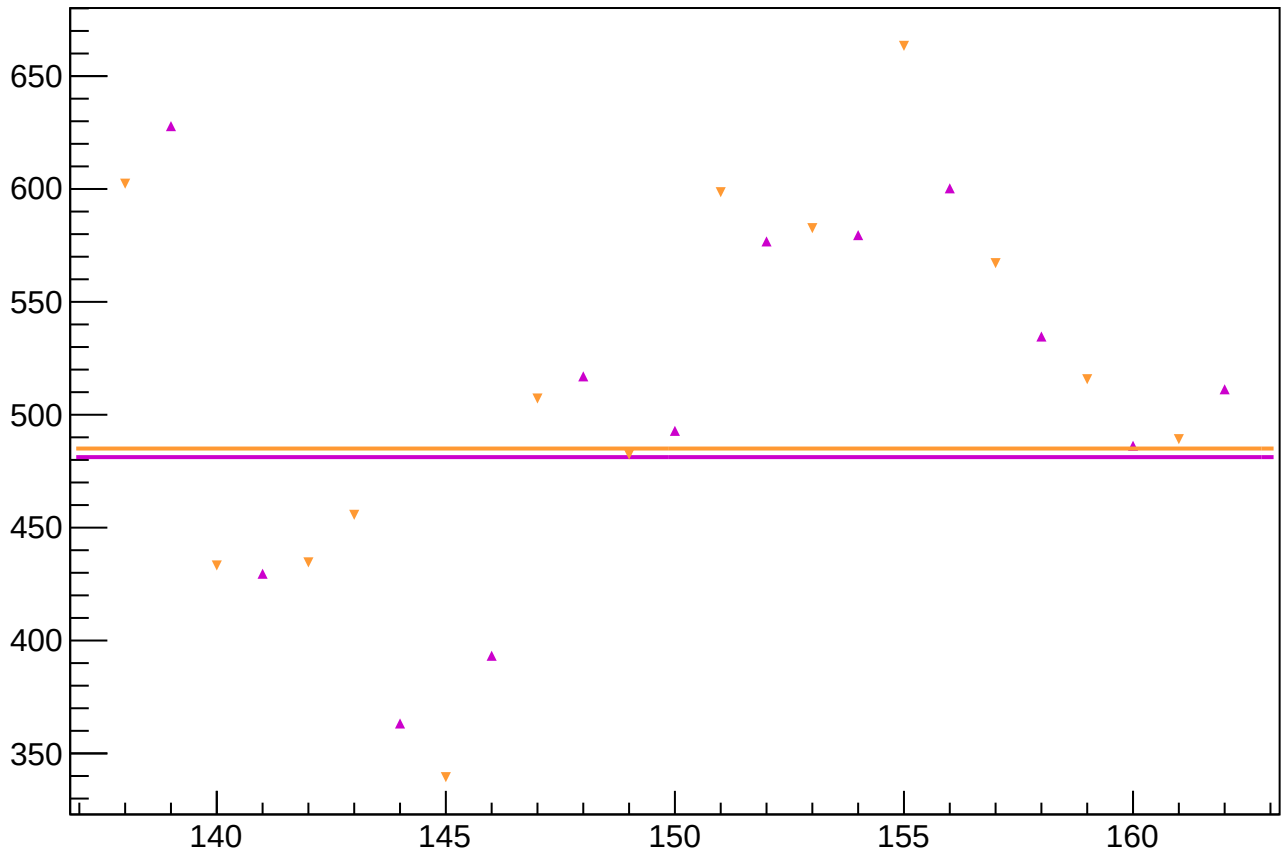
Left In: -124.423 $\pm$ 156.167  $\chi^2$ /NDF:6.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -482.693 $\pm$ 110.834  $\chi^2$ /NDF: 44.5/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 485.039+/-0.111  $\chi^2/\text{NDF}$ : 631307.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

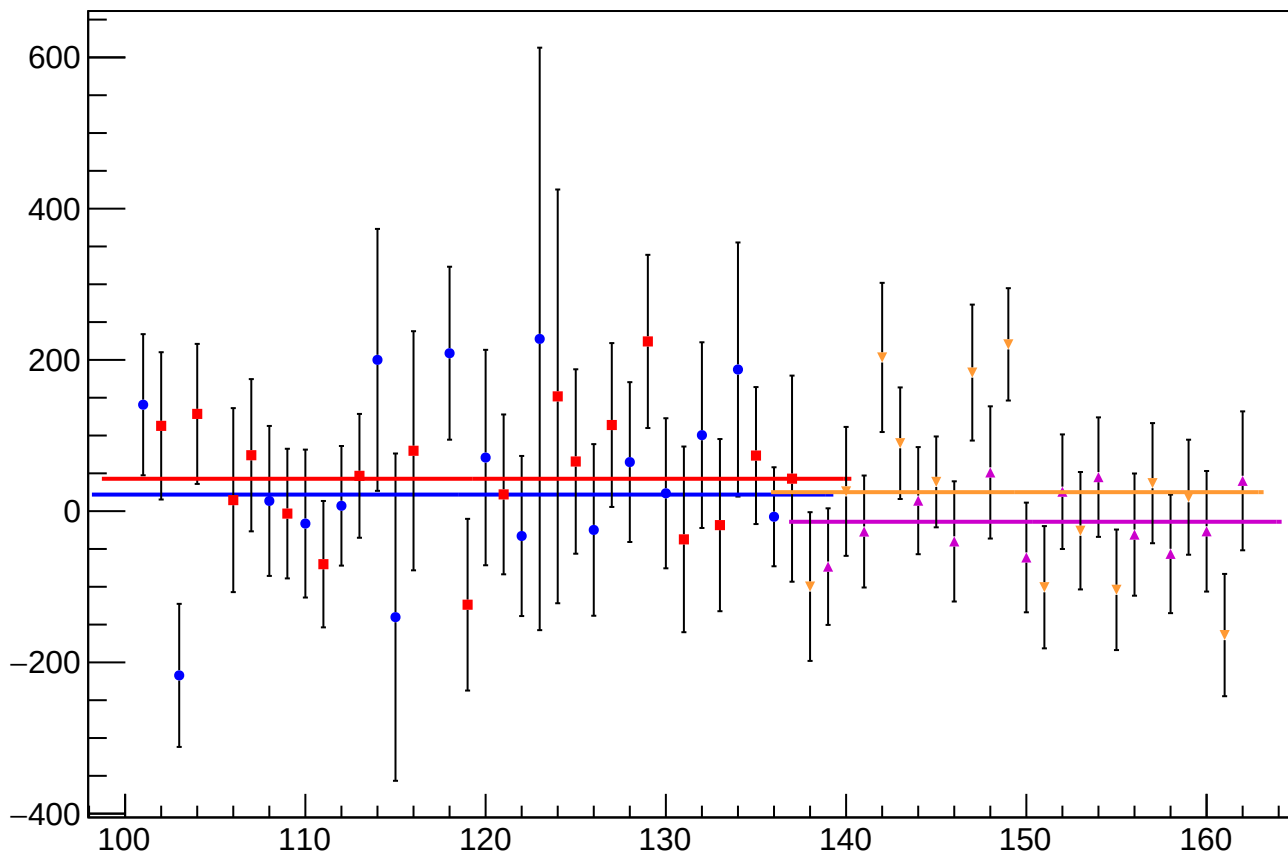
Left In: 481.233+/-0.110  $\chi^2/\text{NDF}$ : 553194.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 483.122+/-0.078  $\chi^2/\text{NDF}$ : 1185091.6/24

- 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: 25.108 $\pm$ 21.978  $\chi^2$ /NDF: 26.7/12

Right Out: 42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

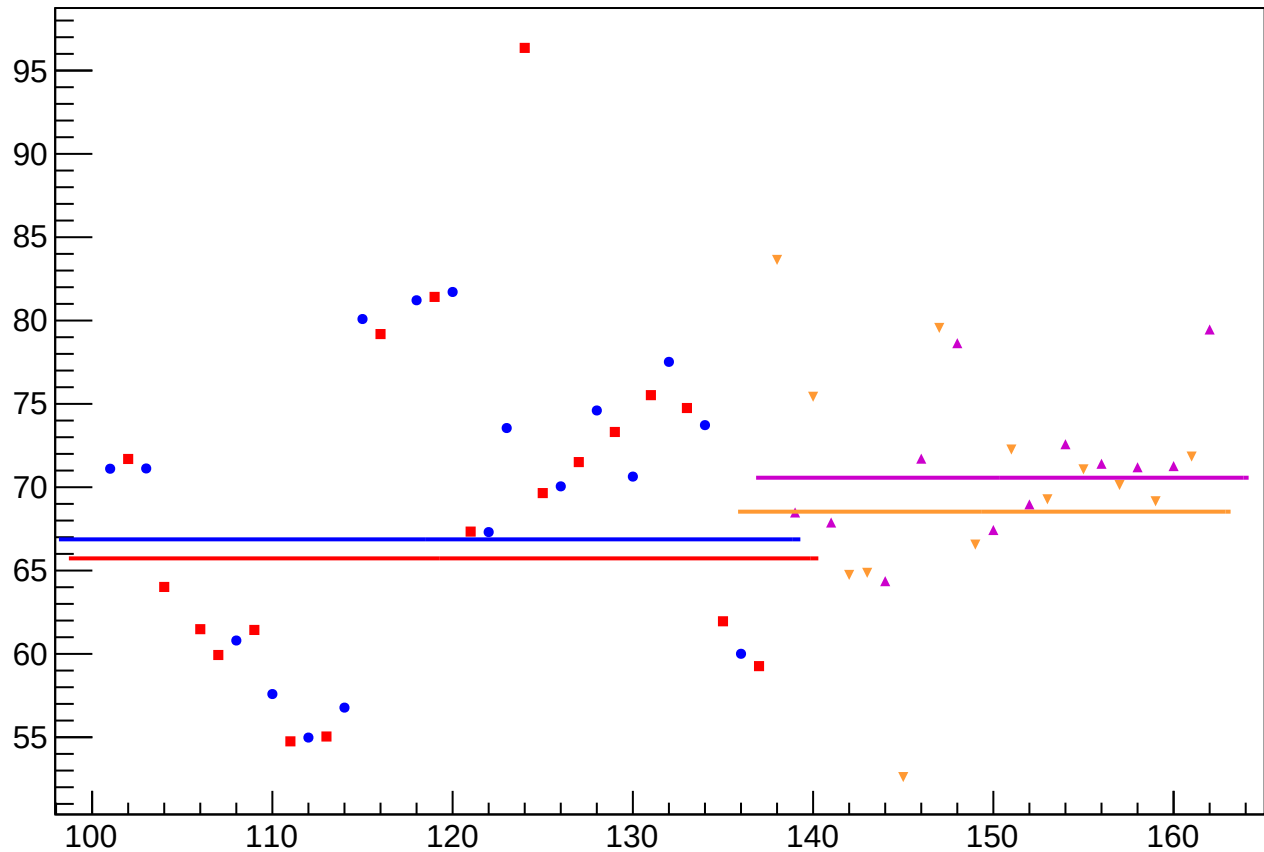
Left In: -14.042 $\pm$ 22.614  $\chi^2$ /NDF: 3.4/11

+ sign 23.778 $\pm$ 16.799  $\chi^2$ /NDF: 41.8/29

All: 17.599 $\pm$ 11.881  $\chi^2$ /NDF: 58.1/59

- sign 11.415 $\pm$ 16.806  $\chi^2$ /NDF: 16.1/29

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 66.872 $\pm$ 0.018  $\chi^2$ /NDF: 202515.6/16

Left Out: 68.534 $\pm$ 0.016  $\chi^2$ /NDF: 250932.1/12

Right Out: 65.731 $\pm$ 0.018  $\chi^2$ /NDF: 218867.5/17

Left In: 70.570 $\pm$ 0.016  $\chi^2$ /NDF: 62097.9/11

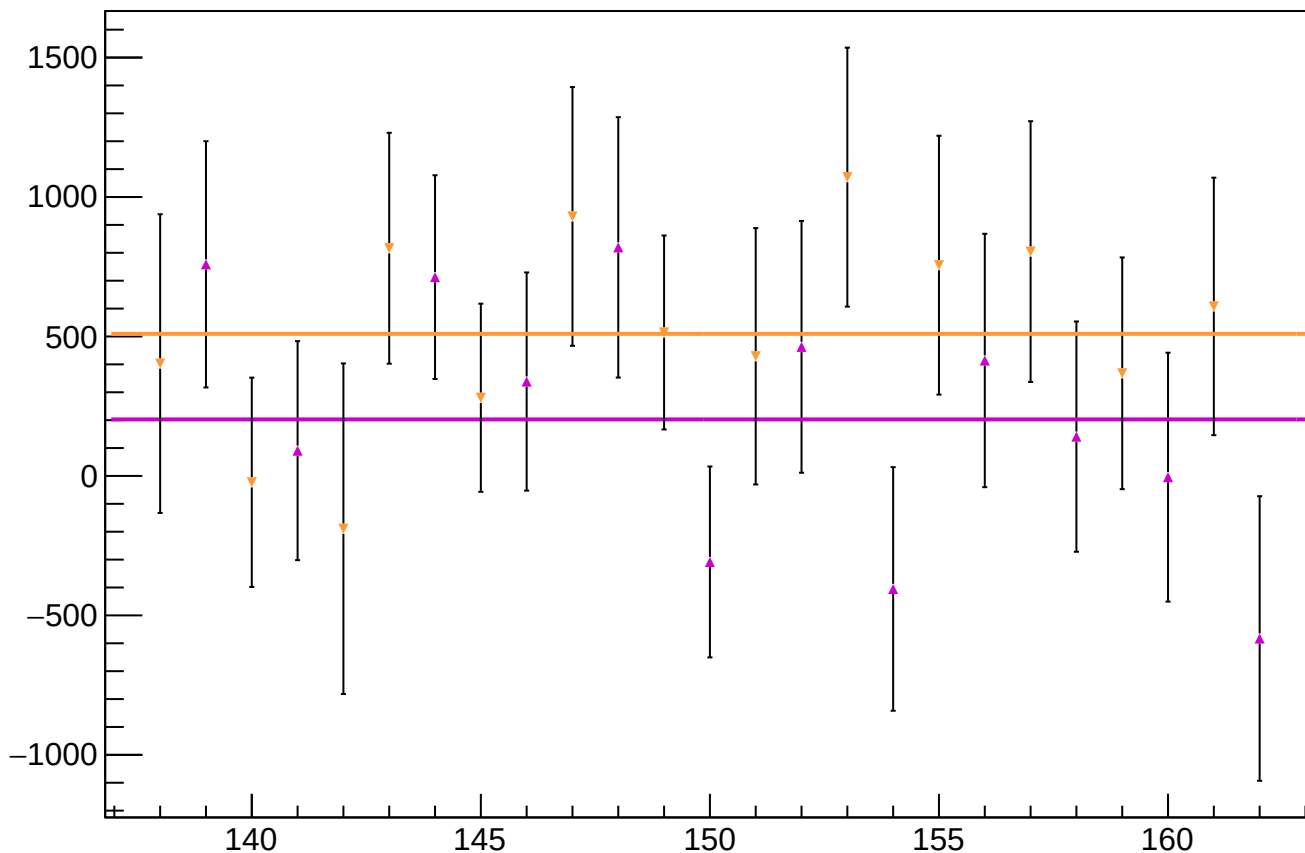
+ sign 67.843 $\pm$ 0.012  $\chi^2$ /NDF: 458199.8/29

All: 68.123 $\pm$ 0.008  $\chi^2$ /NDF: 781290.0/59

- sign 68.403 $\pm$ 0.012  $\chi^2$ /NDF: 321977.5/29



# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 509.379+/-119.469  $\chi^2/\text{NDF}$ : 7.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

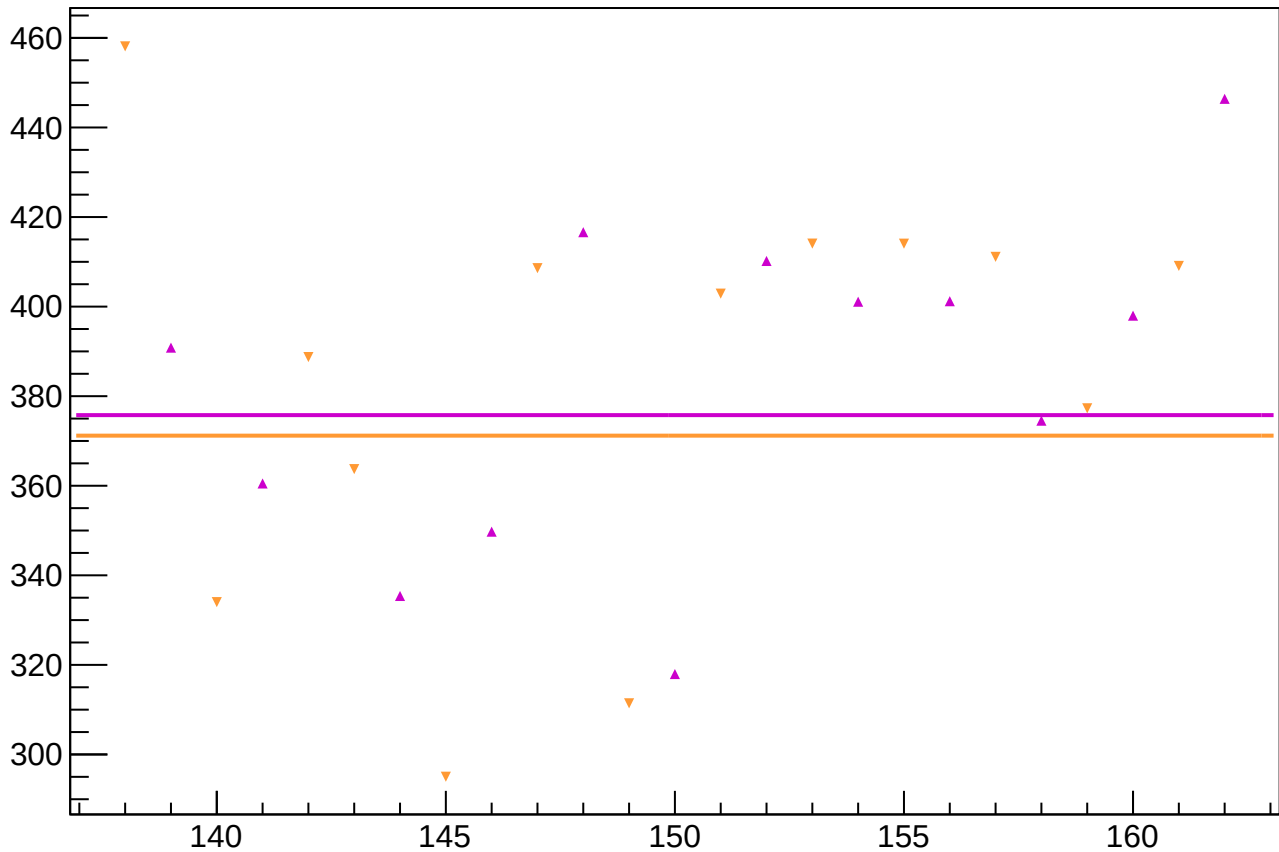
Left In: 202.676+/-120.811  $\chi^2/\text{NDF}$ : 12.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 357.741+/-84.948  $\chi^2/\text{NDF}$ : 23.7/24

- sign 0.000+/-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: 371.187+/-0.084  $\chi^2/\text{NDF}$ : 320947.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

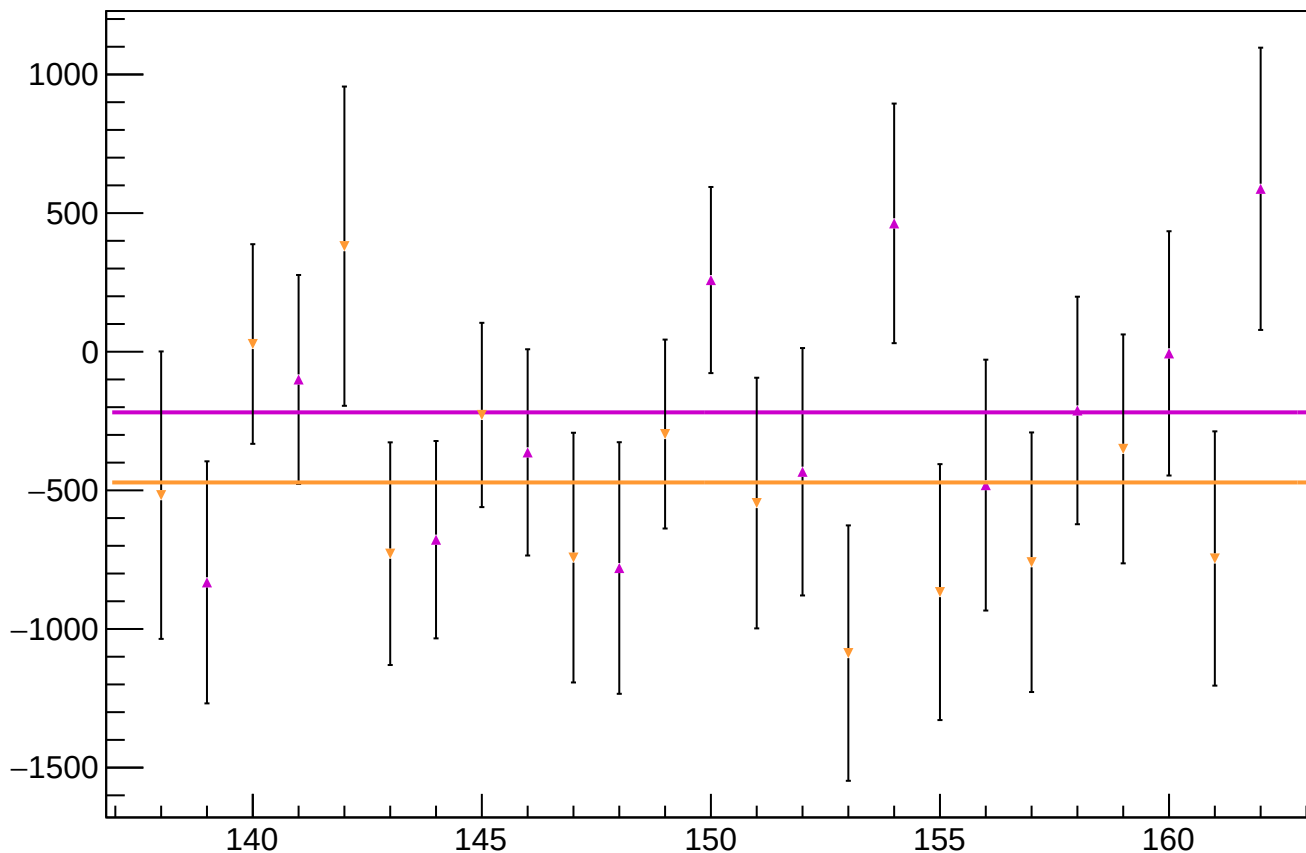
Left In: 375.770+/-0.085  $\chi^2/\text{NDF}$ : 178995.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 373.453+/-0.060  $\chi^2/\text{NDF}$ : 501398.1/24

- 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: -471.472+/-117.249  $\chi^2/\text{NDF}$ : 9.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

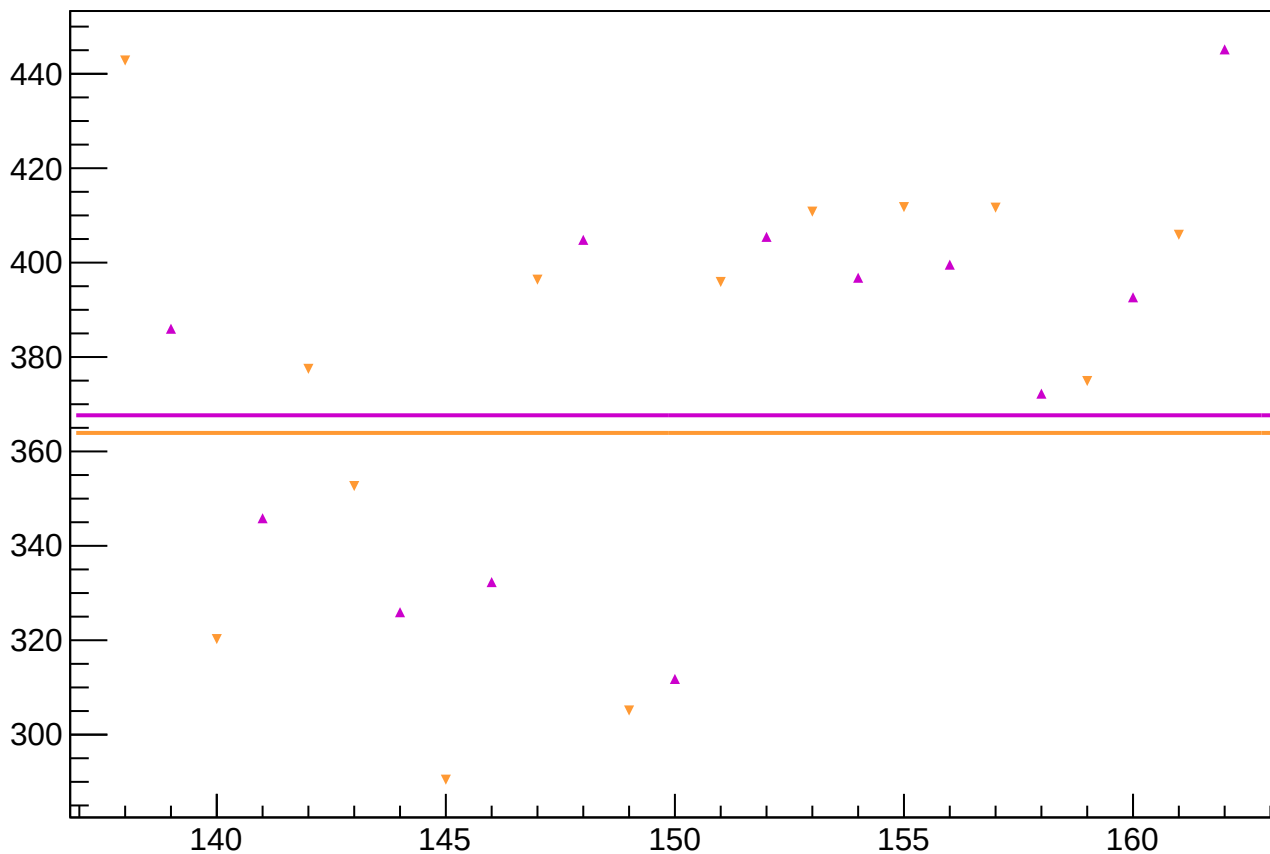
Left In: -218.686+/-118.376  $\chi^2/\text{NDF}$ : 13.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -346.287+/-83.303  $\chi^2/\text{NDF}$ : 24.6/24

- 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: 363.921+/-0.083  $\chi^2/\text{NDF}$ : 337314.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

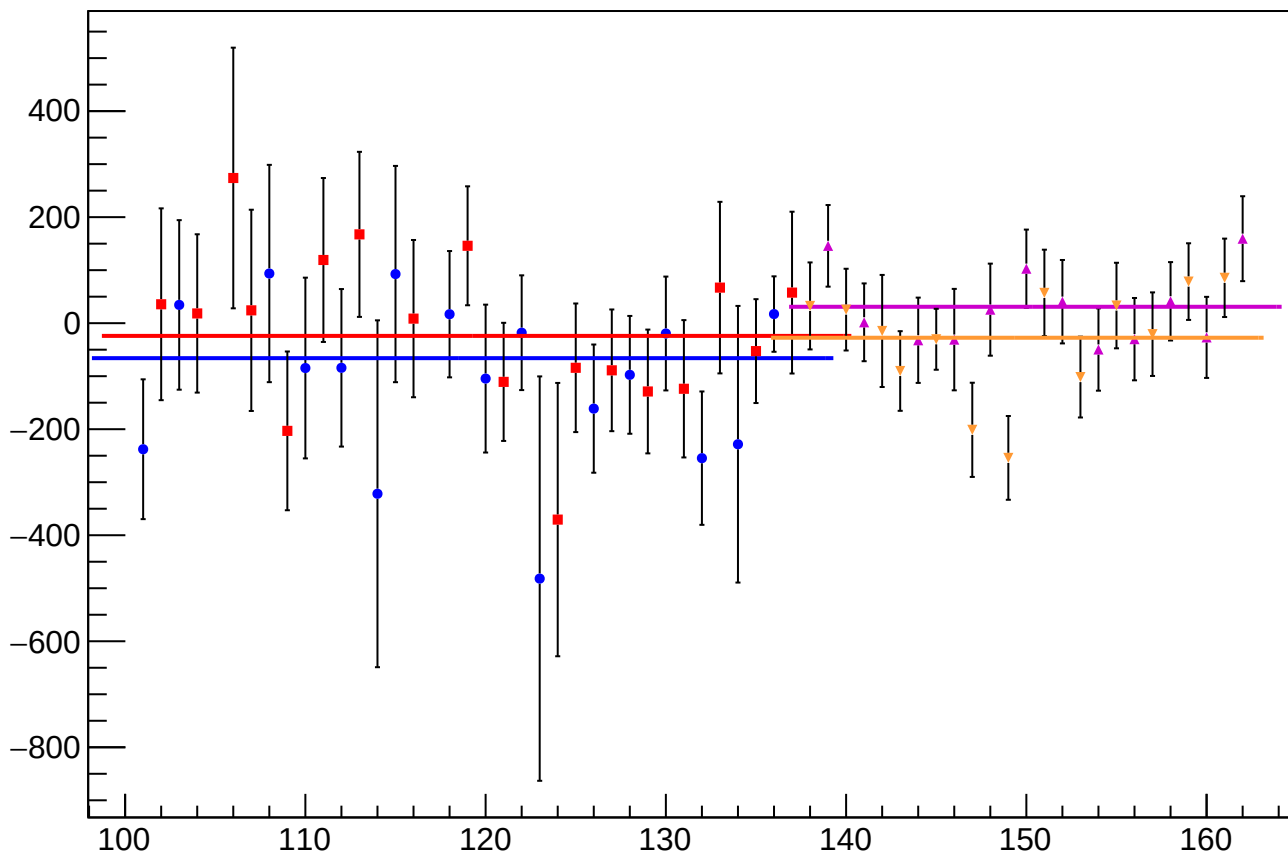
Left In: 367.656+/-0.084  $\chi^2/\text{NDF}$ : 211043.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 365.770+/-0.059  $\chi^2/\text{NDF}$ : 549362.8/24

- 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: -27.473 $\pm$ 21.396  $\chi^2/\text{NDF}$ : 20.9/12

Right Out: -23.979 $\pm$ 32.790  $\chi^2/\text{NDF}$ : 12.9/17

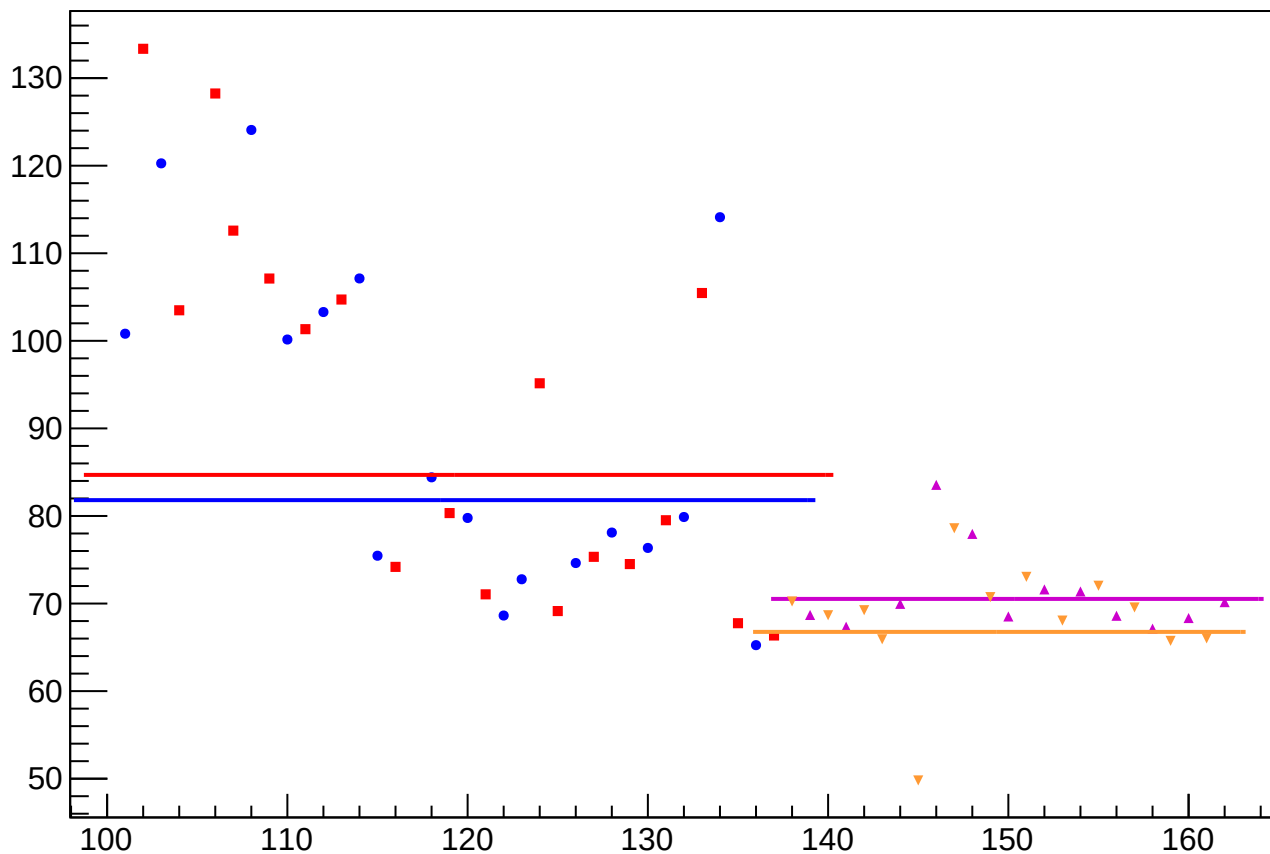
Left In: 30.940 $\pm$ 22.718  $\chi^2/\text{NDF}$ : 9.2/11

+ sign -39.220 $\pm$ 17.836  $\chi^2/\text{NDF}$ : 32.6/29

All: -14.248 $\pm$ 12.898  $\chi^2/\text{NDF}$ : 60.8/59

- sign 13.127 $\pm$ 18.674  $\chi^2/\text{NDF}$ : 24.1/29

# dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 81.809 $\pm$ 0.023  $\chi^2$ /NDF: 507195.8/16

Left Out: 66.763 $\pm$ 0.015  $\chi^2$ /NDF: 245088.9/12

Right Out: 84.691 $\pm$ 0.023  $\chi^2$ /NDF: 615927.4/17

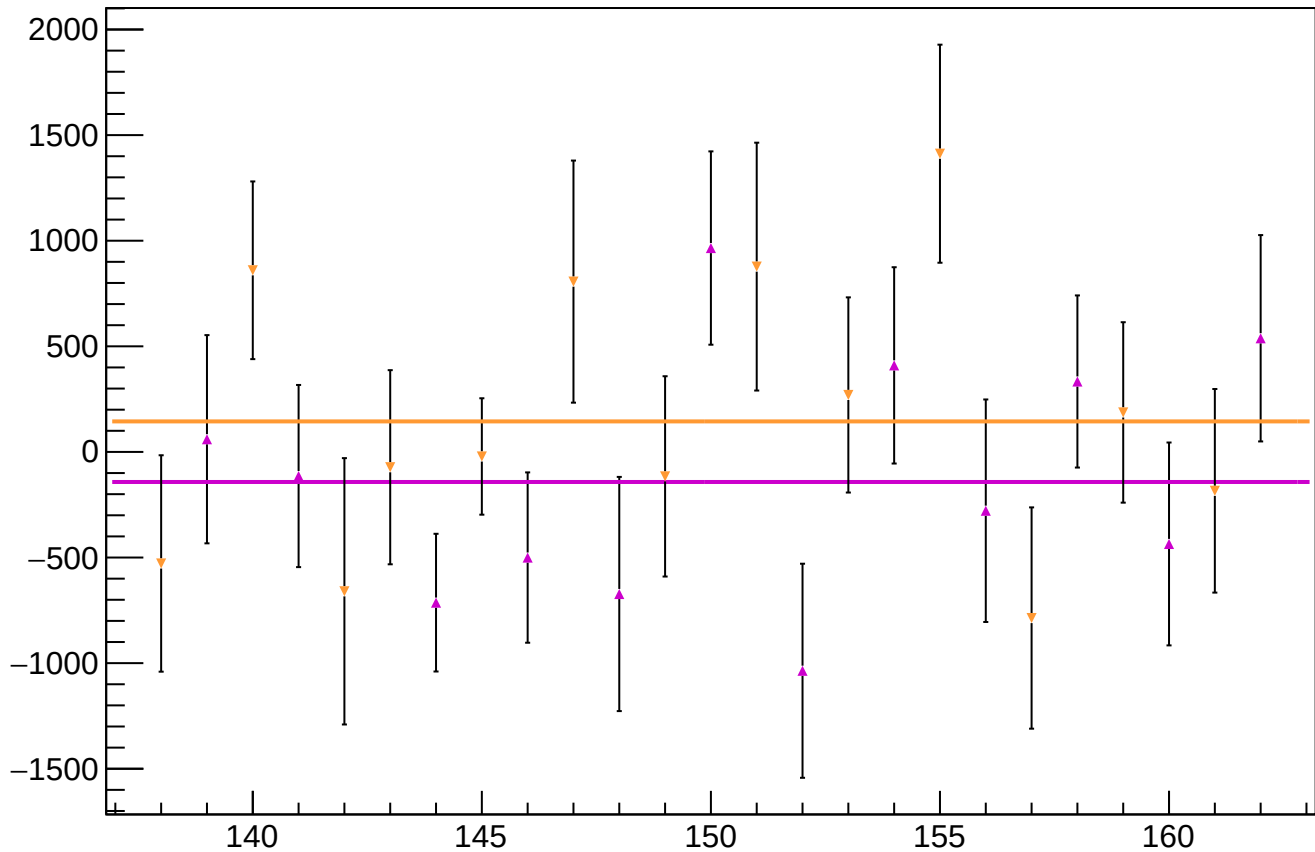
Left In: 70.529 $\pm$ 0.016  $\chi^2$ /NDF: 65865.2/11

+ sign 71.354 $\pm$ 0.013  $\chi^2$ /NDF: 1054024.3/29

All: 73.152 $\pm$ 0.009  $\chi^2$ /NDF: 2030474.0/59

- sign 75.122 $\pm$ 0.013  $\chi^2$ /NDF: 933855.3/29

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 144.518+/-126.856  $\chi^2/\text{NDF}$ : 19.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

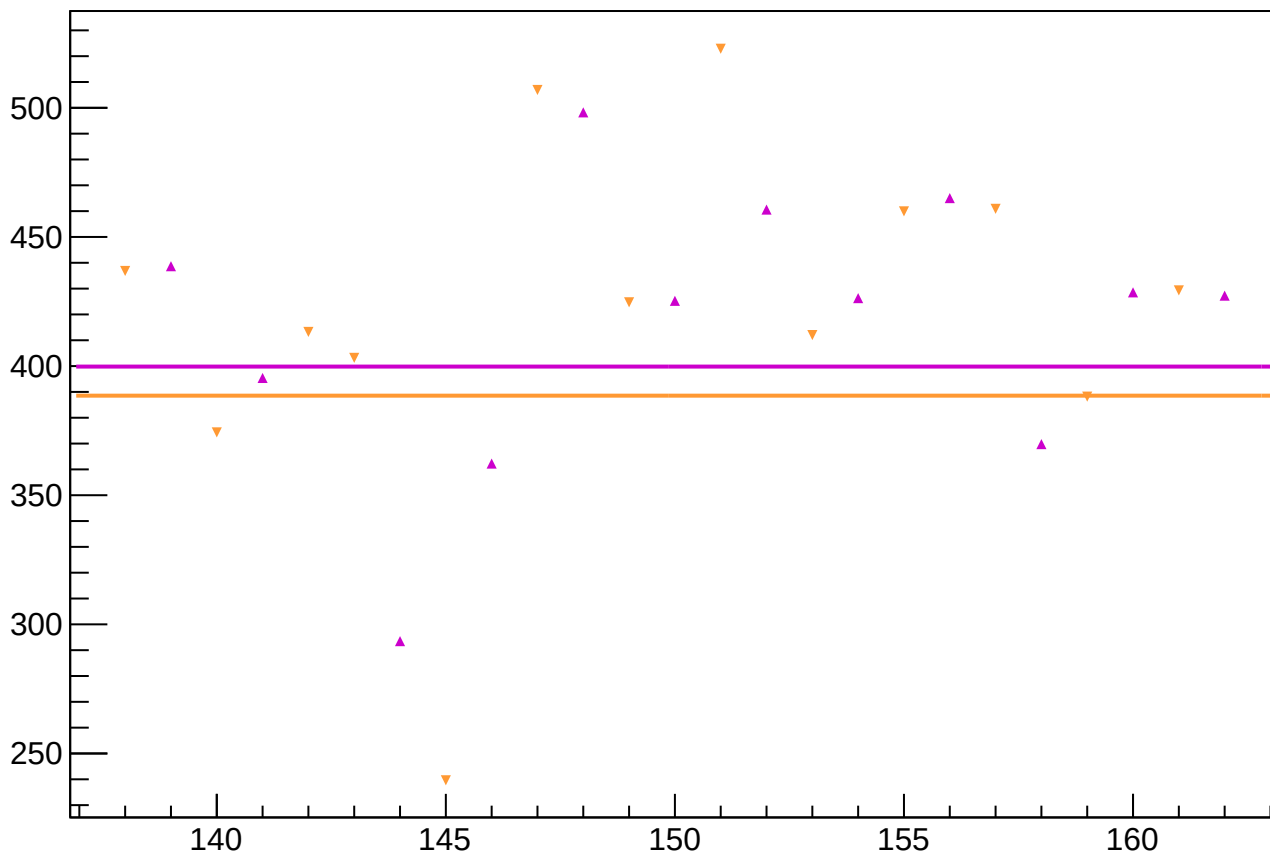
Left In: -142.294+/-129.359  $\chi^2/\text{NDF}$ : 19.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.914+/-90.573  $\chi^2/\text{NDF}$ : 41.3/24

- 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: 388.550+/-0.090  $\chi^2/\text{NDF}$ : 906815.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 399.811+/-0.091  $\chi^2/\text{NDF}$ : 402260.6/11

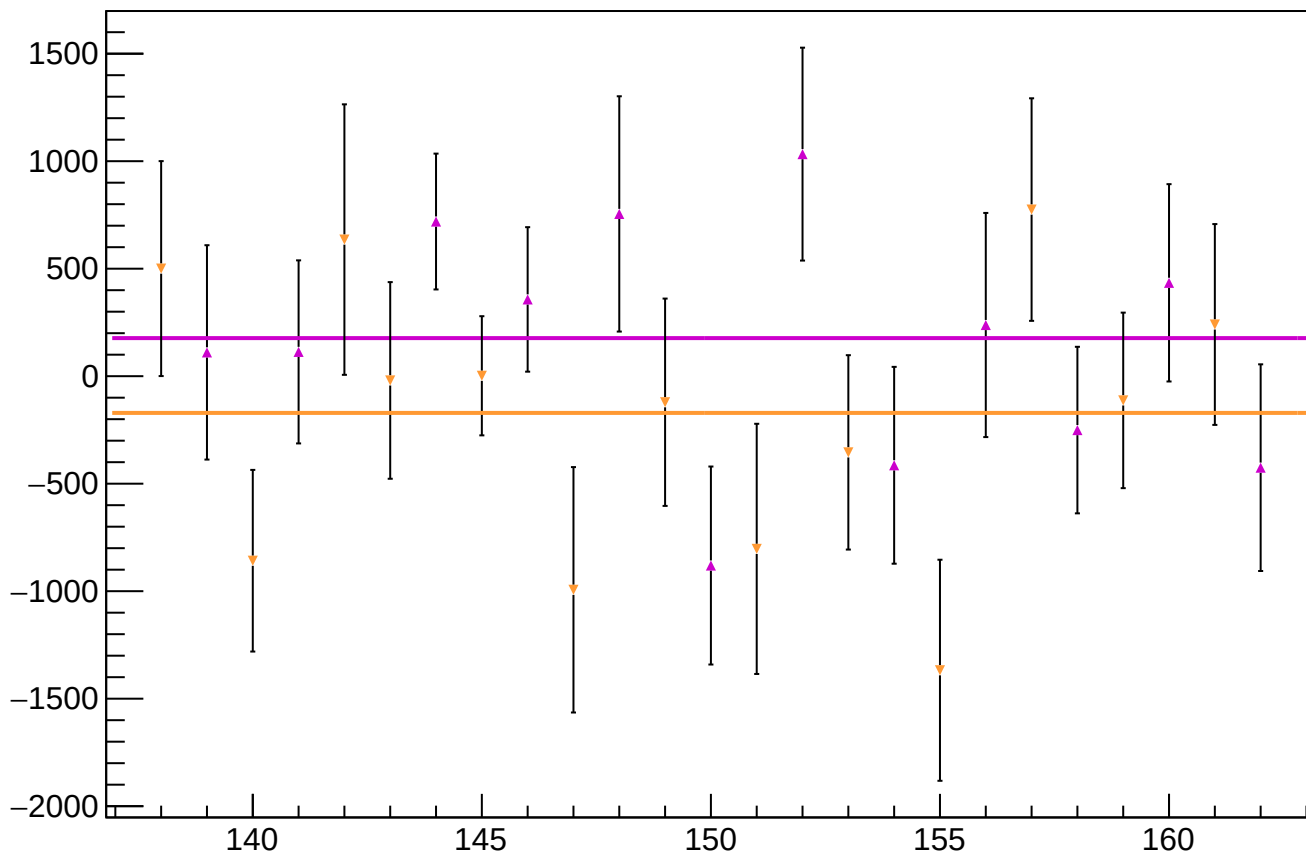
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 394.071+/-0.064  $\chi^2/\text{NDF}$ : 1316803.0/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -170.804 $\pm$ 125.732  $\chi^2$ /NDF:19.6/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

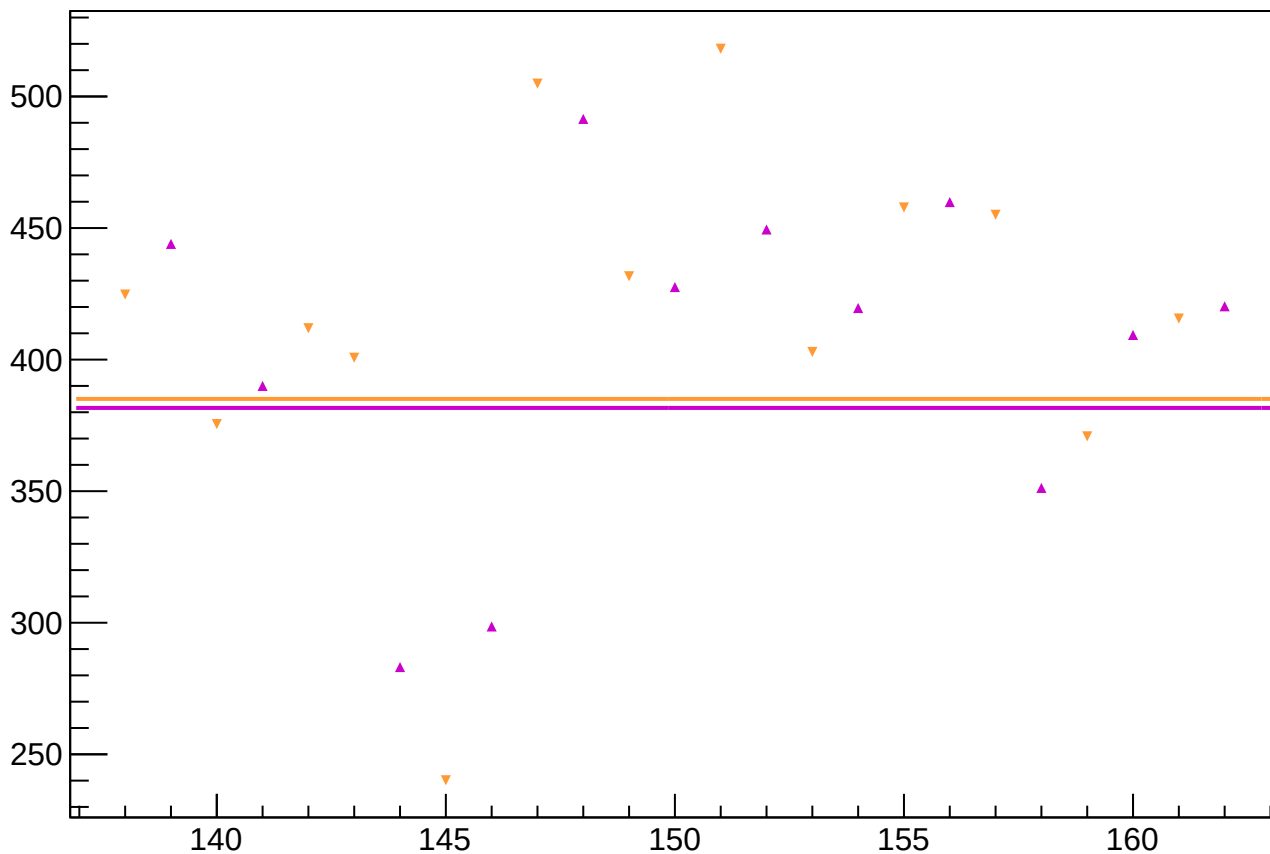
Left In: 177.123 $\pm$ 124.275  $\chi^2$ /NDF:17.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.187 $\pm$ 88.386  $\chi^2$ /NDF: 40.9/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 385.072+/-0.089  $\chi^2/\text{NDF}$ :868847.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

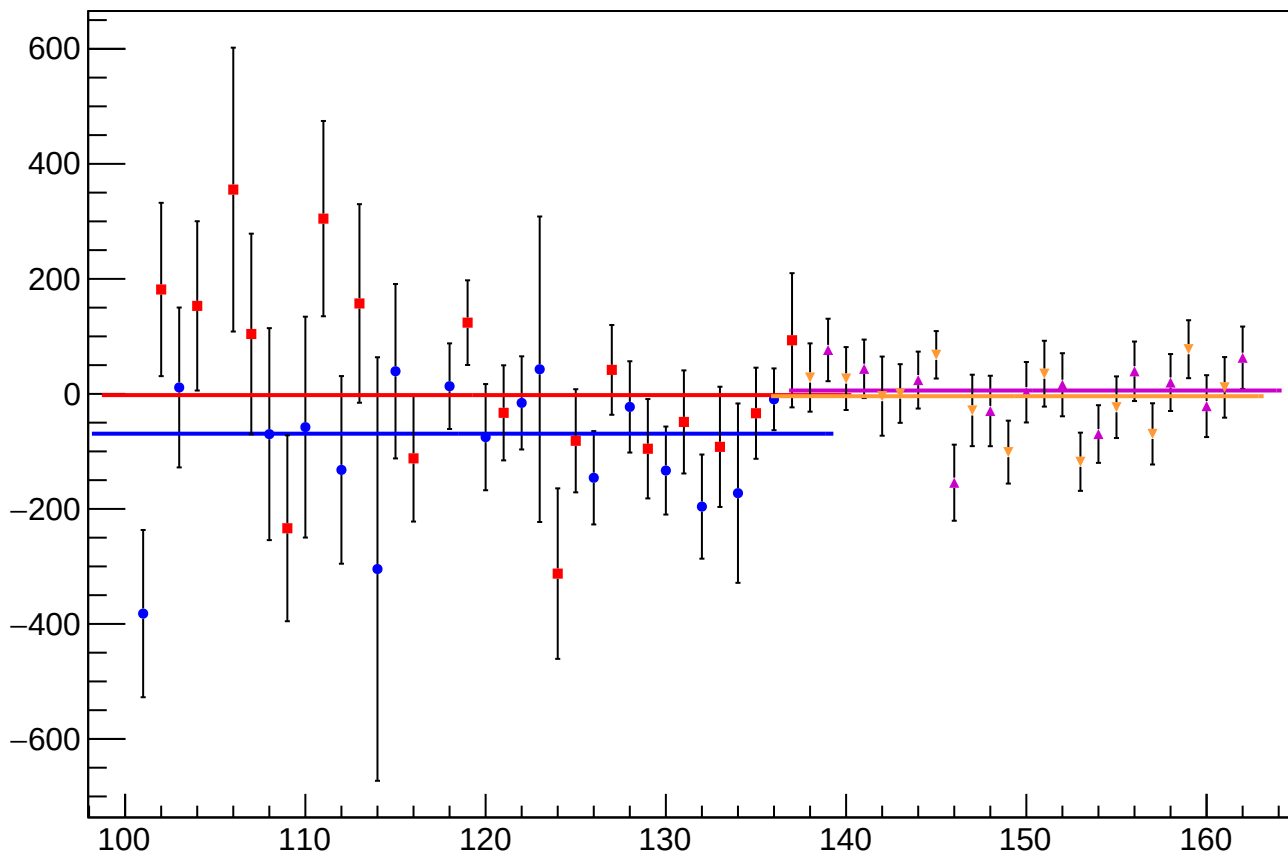
Left In: 381.641+/-0.088  $\chi^2/\text{NDF}$ :577974.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 383.336+/-0.062  $\chi^2/\text{NDF}$ : 1447575.1/24

- 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:  $-3.992 \pm 14.832$   $\chi^2/\text{NDF}$ : 16.9/12

Right Out:  $-2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

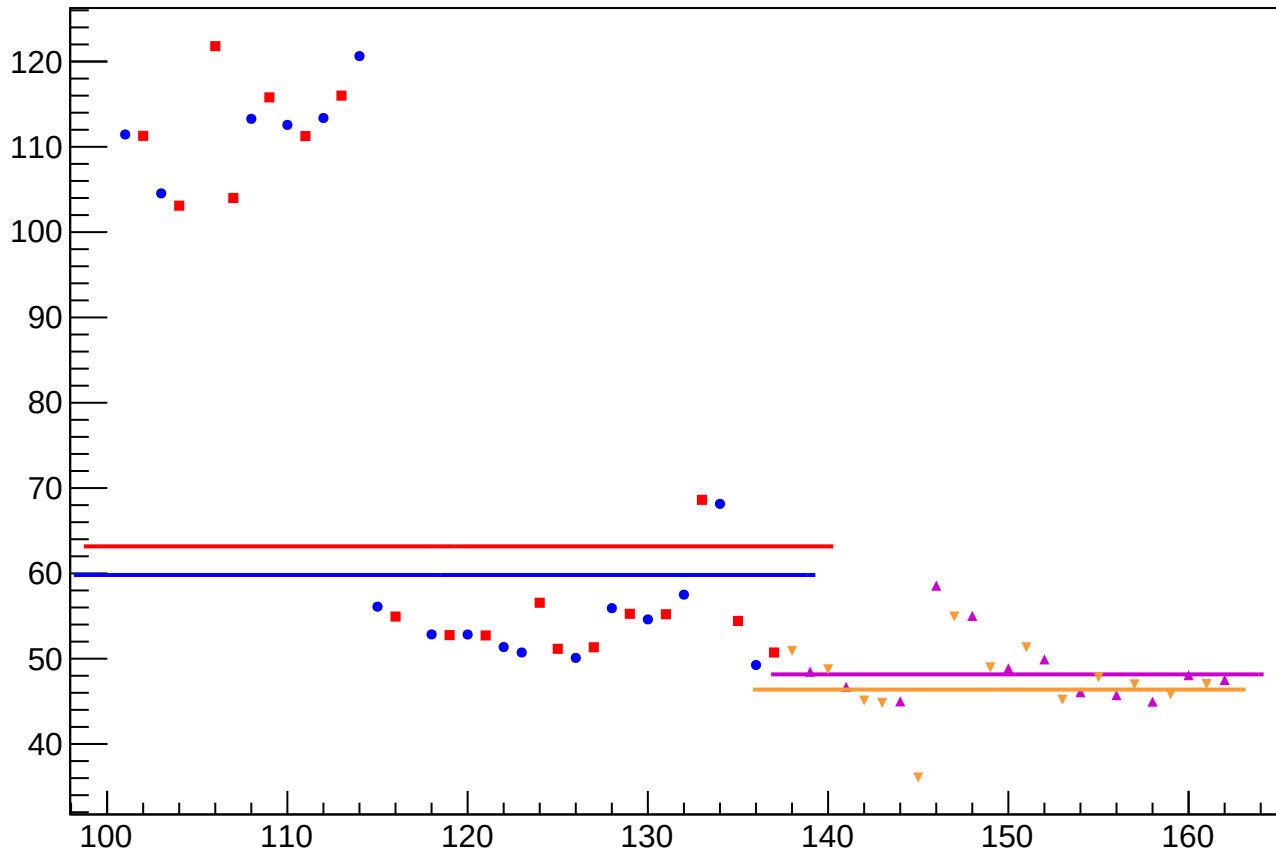
Left In:  $5.897 \pm 15.453$   $\chi^2/\text{NDF}$ : 12.7/11

+ sign  $-21.730 \pm 12.654$   $\chi^2/\text{NDF}$ : 35.6/29

All:  $-9.517 \pm 9.125$   $\chi^2/\text{NDF}$ : 74.2/59

- sign  $3.715 \pm 13.171$   $\chi^2/\text{NDF}$ : 36.6/29

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 59.809 $\pm$ 0.017  $\chi^2$ /NDF: 1229983.3/16

Left Out: 46.380 $\pm$ 0.010  $\chi^2$ /NDF: 203851.4/12

Right Out: 63.166 $\pm$ 0.018  $\chi^2$ /NDF: 1387305.6/17

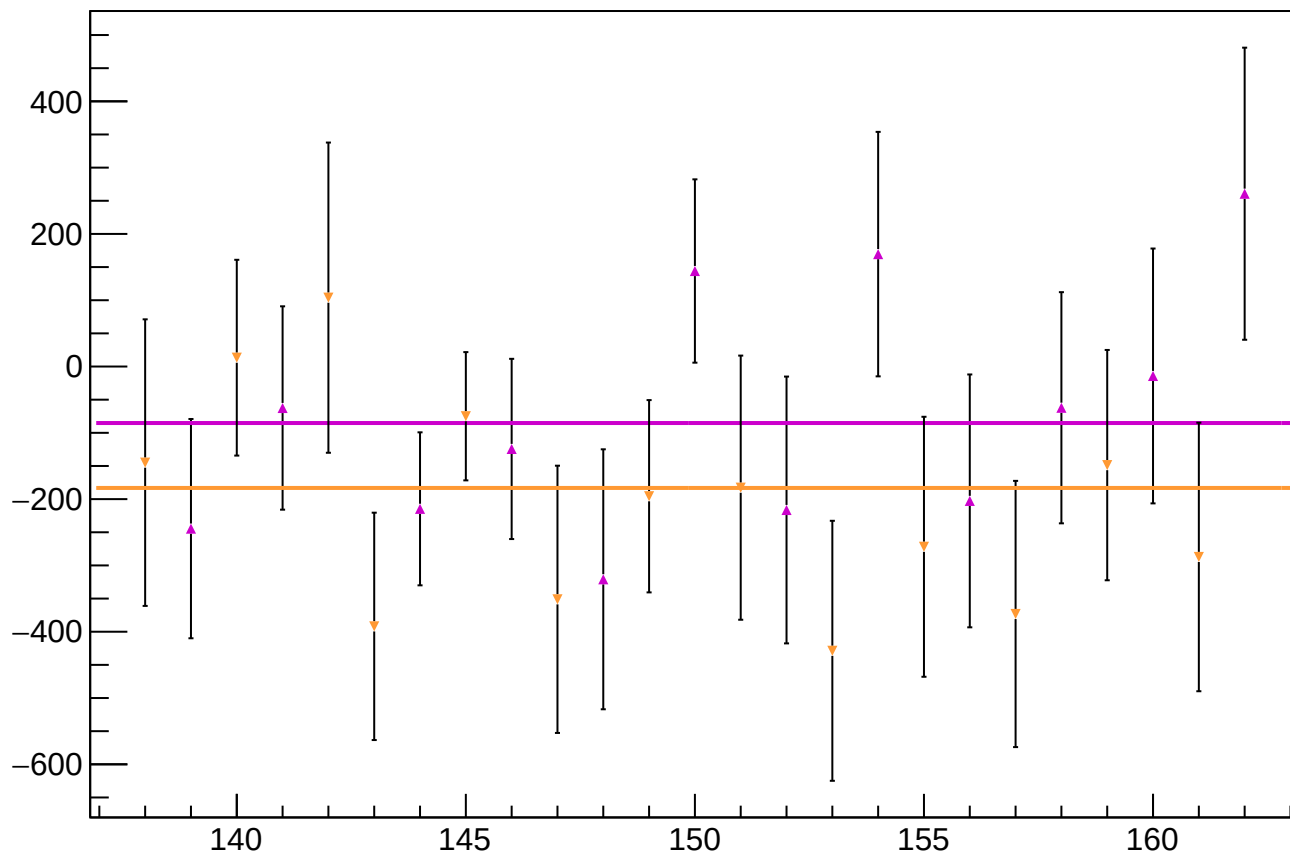
Left In: 48.160 $\pm$ 0.011  $\chi^2$ /NDF: 103245.1/11

+ sign 50.034 $\pm$ 0.009  $\chi^2$ /NDF: 1879890.9/29

All: 51.104 $\pm$ 0.006  $\chi^2$ /NDF: 3916006.0/59

- sign 52.264 $\pm$ 0.009  $\chi^2$ /NDF: 2006307.3/29

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -183.135+/-46.719  $\chi^2/\text{NDF}$ : 9.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

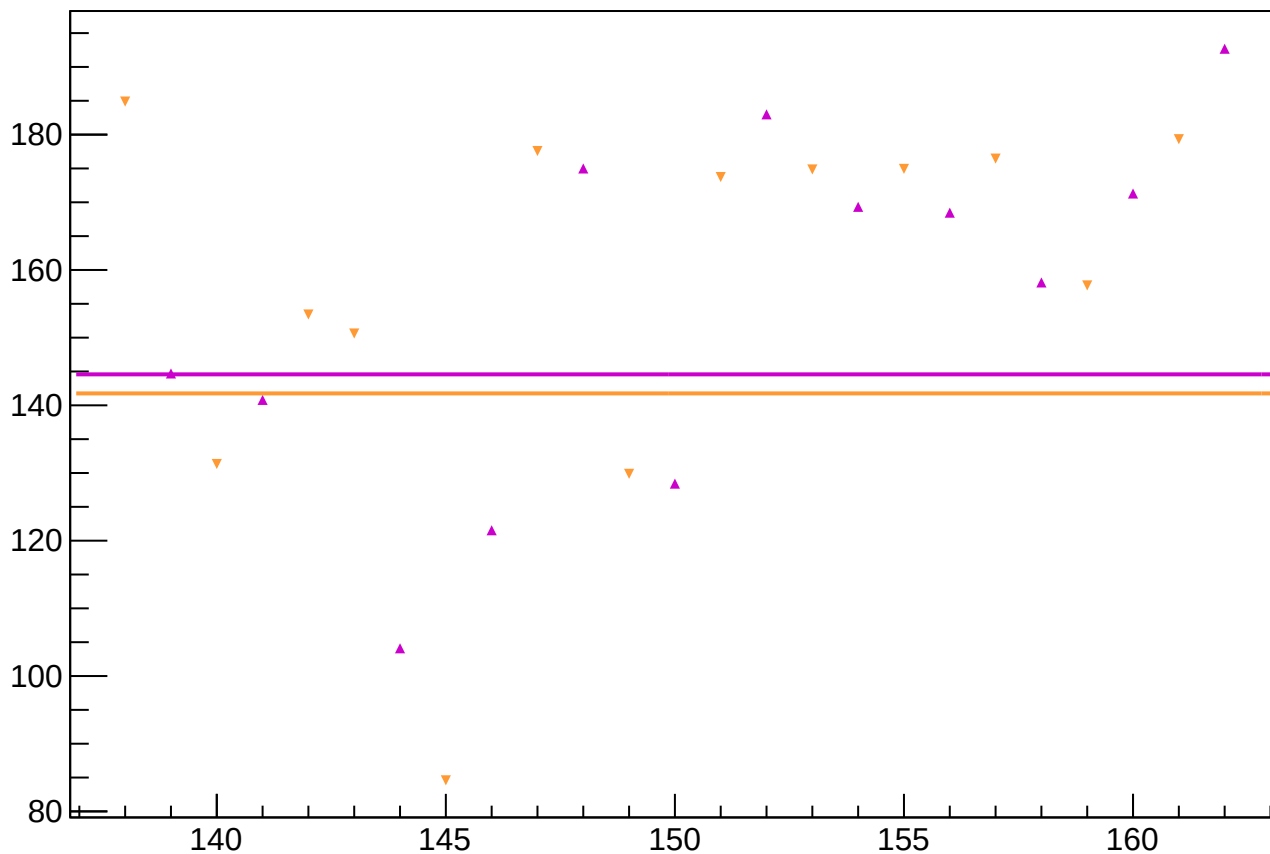
Left In: -85.216+/-47.201  $\chi^2/\text{NDF}$ : 11.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -134.678+/-33.205  $\chi^2/\text{NDF}$ : 23.7/24

- 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: 141.760+/-0.033  $\chi^2/\text{NDF}$ :1186271.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

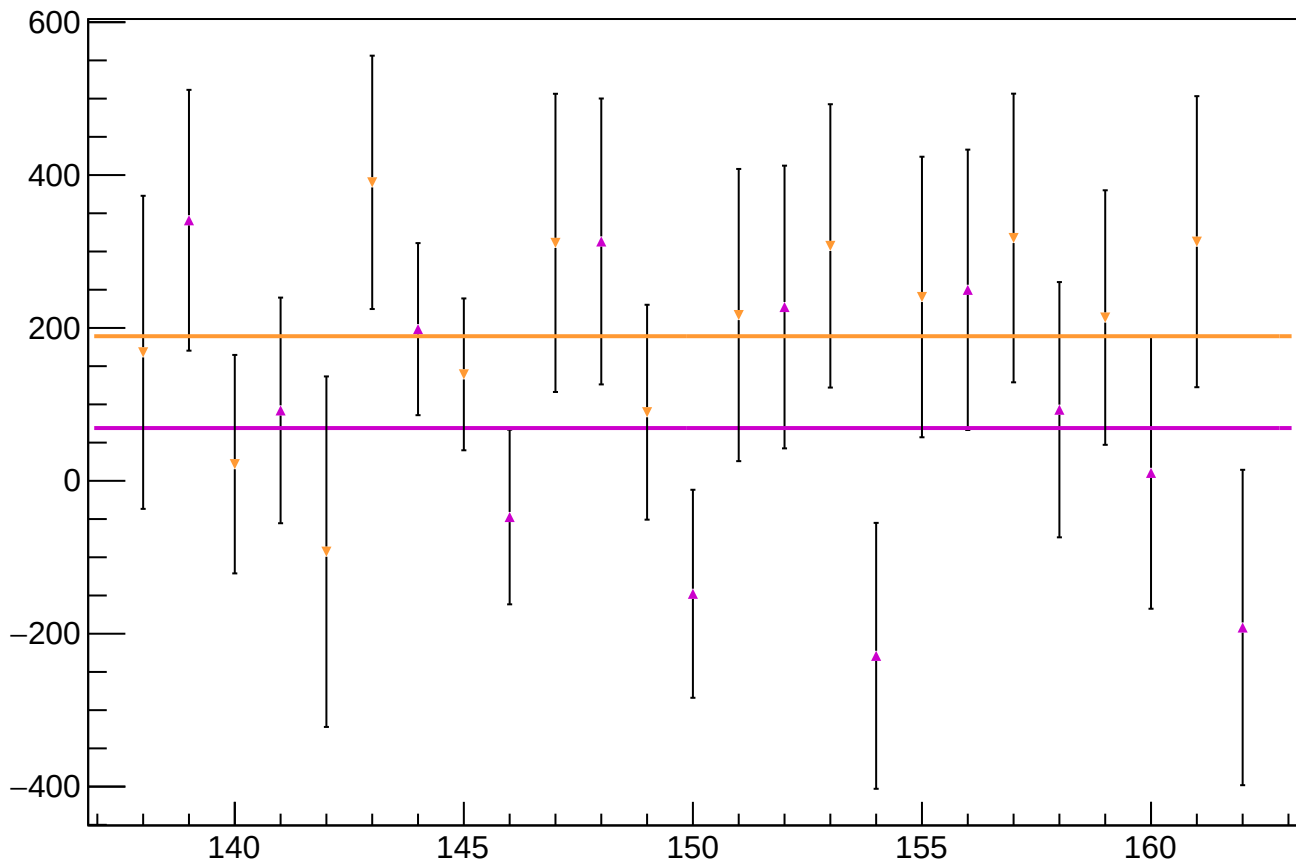
Left In: 144.577+/-0.033  $\chi^2/\text{NDF}$ :666769.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 143.154+/-0.023  $\chi^2/\text{NDF}$ : 1856637.0/24

- 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: 189.194+/-45.435  $\chi^2/\text{NDF}$ : 6.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

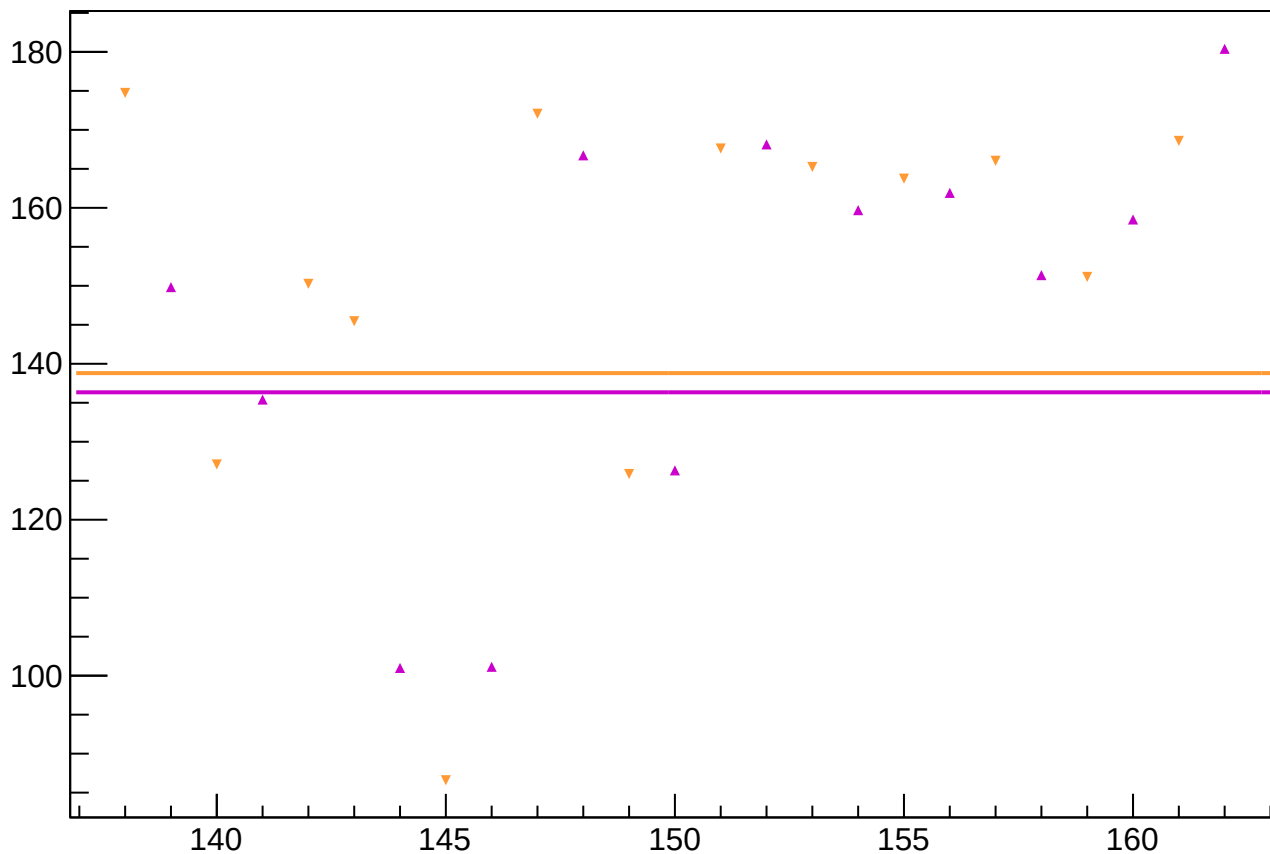
Left In: 69.044+/-44.656  $\chi^2/\text{NDF}$ : 15.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 128.080+/-31.848  $\chi^2/\text{NDF}$ : 26.0/24

- 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: 138.803+/-0.032  $\chi^2/\text{NDF}$ : 935688.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 136.343+/-0.032  $\chi^2/\text{NDF}$ : 735989.6/11

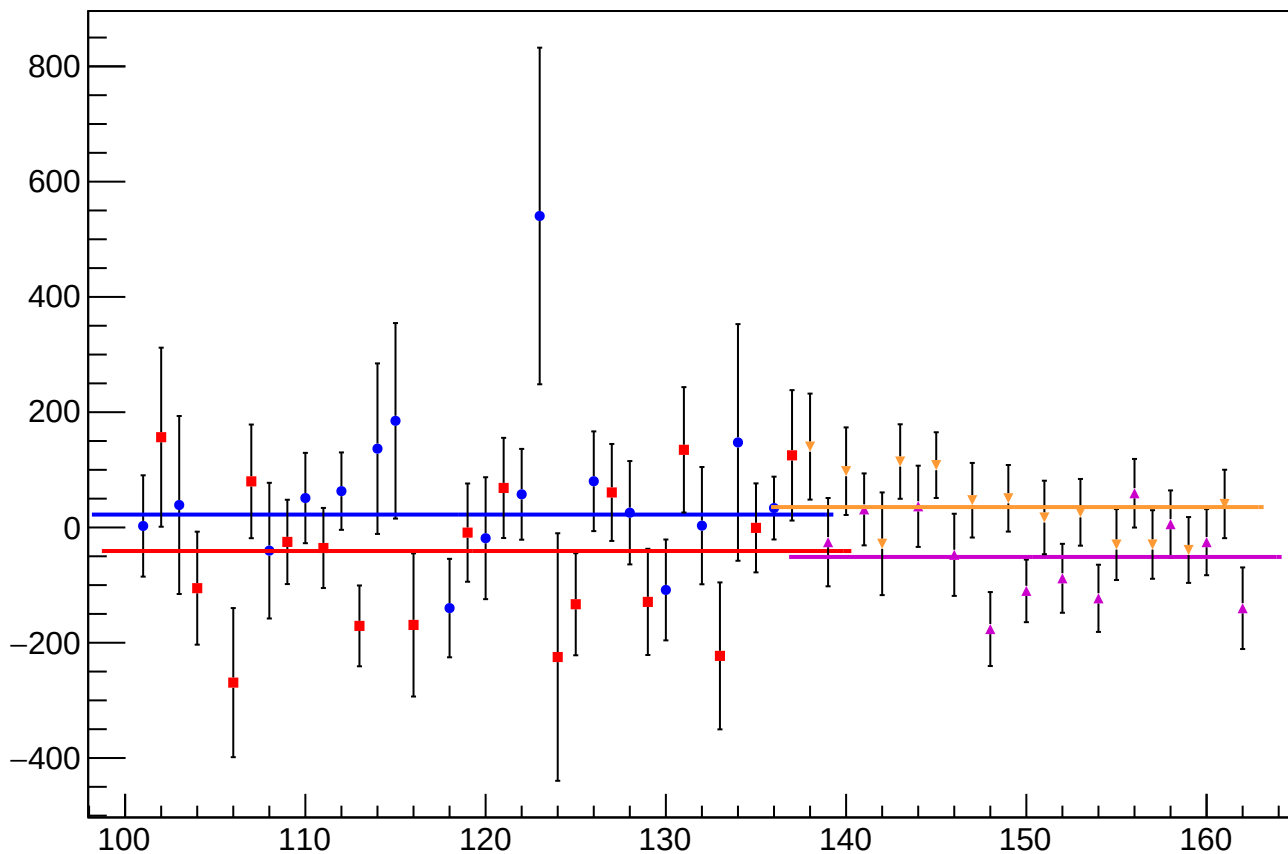
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 137.552+/-0.023  $\chi^2/\text{NDF}$ : 1674660.9/24

- 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  $\chi^2$ /NDF: 12.6/16

Left Out: 35.365 $\pm$ 17.721  $\chi^2$ /NDF: 9.8/12

Right Out: -40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

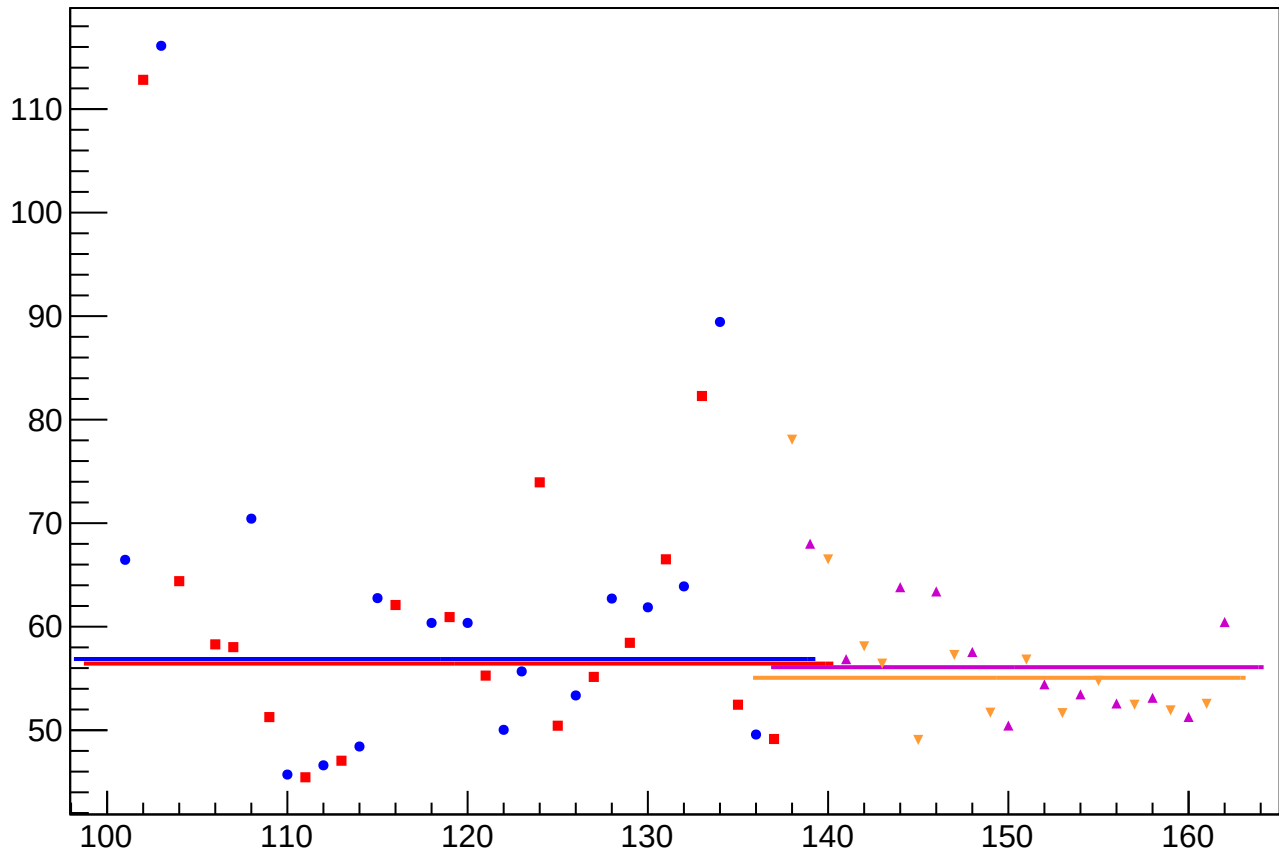
Left In: -51.147 $\pm$ 18.082  $\chi^2$ /NDF: 16.5/11

+ sign 30.421 $\pm$ 13.951  $\chi^2$ /NDF: 22.6/29

All: -8.160 $\pm$ 9.883  $\chi^2$ /NDF: 78.8/59

- sign -47.033 $\pm$ 14.004  $\chi^2$ /NDF: 40.8/29

# dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In:  $56.879 \pm 0.016$   $\chi^2/\text{NDF}: 575487.1/16$

Left Out:  $55.063 \pm 0.013$   $\chi^2/\text{NDF}: 226944.2/12$

Right Out:  $56.434 \pm 0.016$   $\chi^2/\text{NDF}: 520456.9/17$

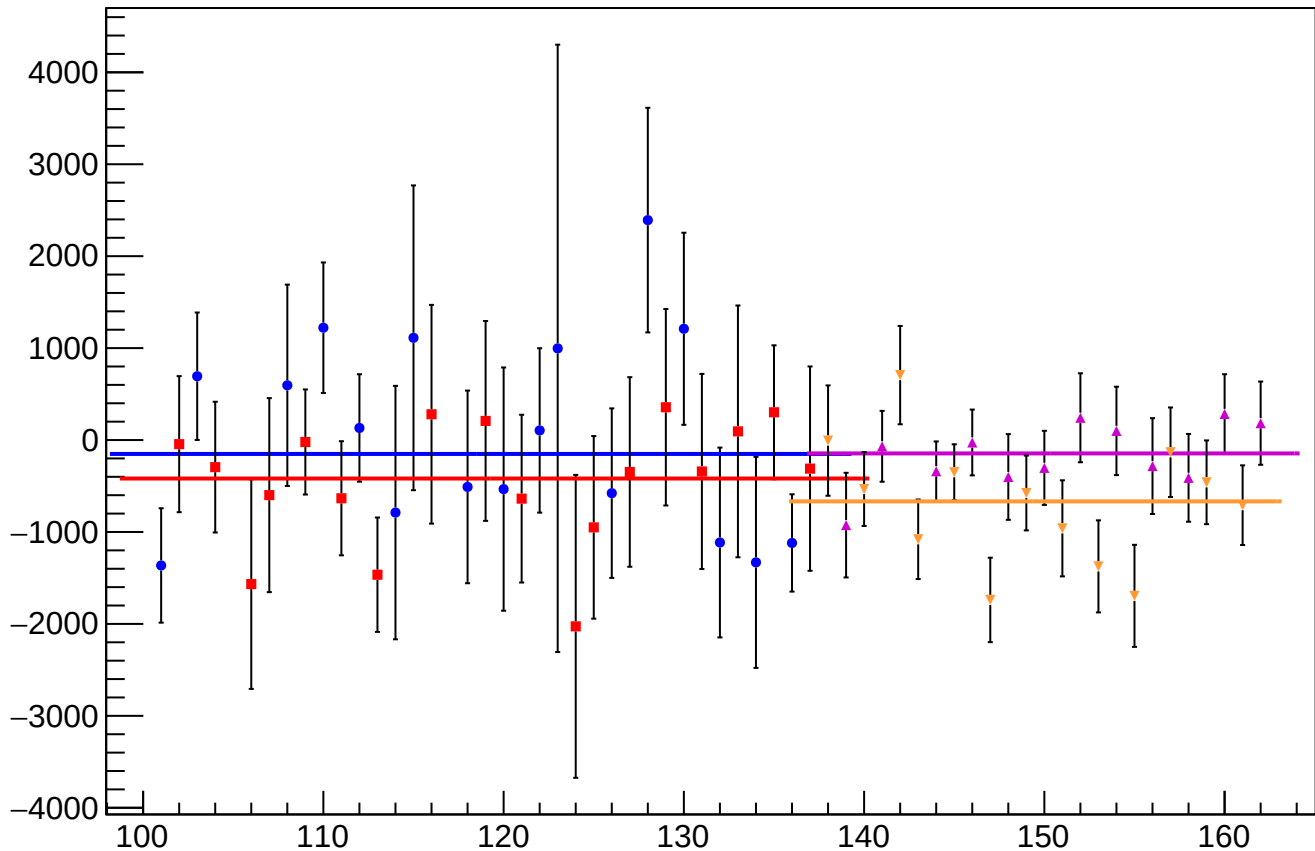
Left In:  $56.088 \pm 0.013$   $\chi^2/\text{NDF}: 155803.0/11$

+ sign  $55.754 \pm 0.010$   $\chi^2/\text{NDF}: 810411.9/29$

All:  $55.989 \pm 0.007$   $\chi^2/\text{NDF}: 1488109.0/59$

- sign  $56.226 \pm 0.010$   $\chi^2/\text{NDF}: 676553.6/29$

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: -151.194 $\pm$ 212.448  $\chi^2$ /NDF: 22.4/16

Left Out: -667.258 $\pm$ 124.302  $\chi^2$ /NDF:22.6/12

Right Out: -418.554 $\pm$ 205.061  $\chi^2$ /NDF: 8.4/17

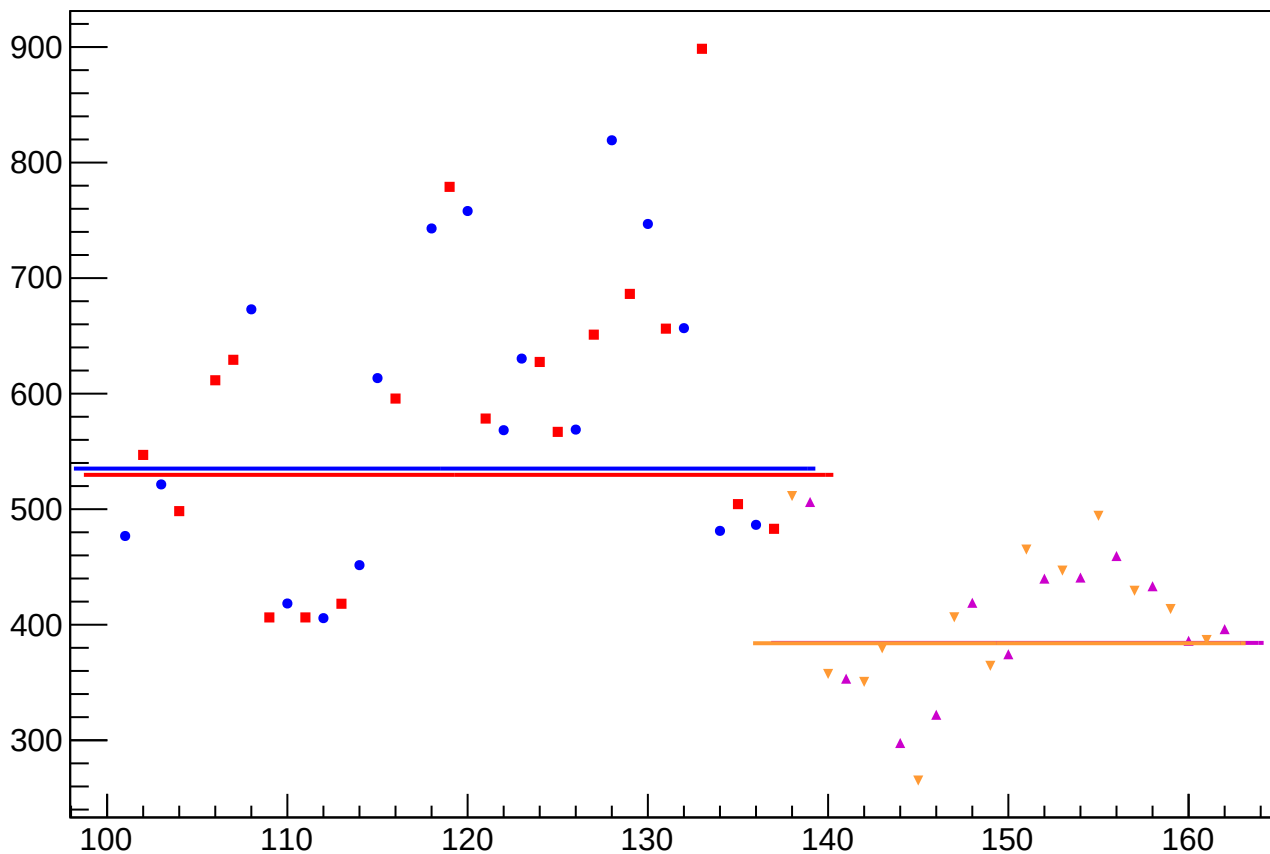
Left In: -145.540 $\pm$ 124.228  $\chi^2$ /NDF:5.6/11

+ sign -535.646 $\pm$ 107.287  $\chi^2$ /NDF: 49.4/29

All: -375.705 $\pm$ 75.495  $\chi^2$ /NDF: 69.2/59

- sign -218.837 $\pm$ 106.251  $\chi^2$ /NDF: 15.3/29

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 535.137+/-0.150  $\chi^2/\text{NDF}$ : 596084.8/16

Left Out: 383.973+/-0.088  $\chi^2/\text{NDF}$ : 607744.9/12

Right Out: 529.720+/-0.145  $\chi^2/\text{NDF}$ : 646725.7/17

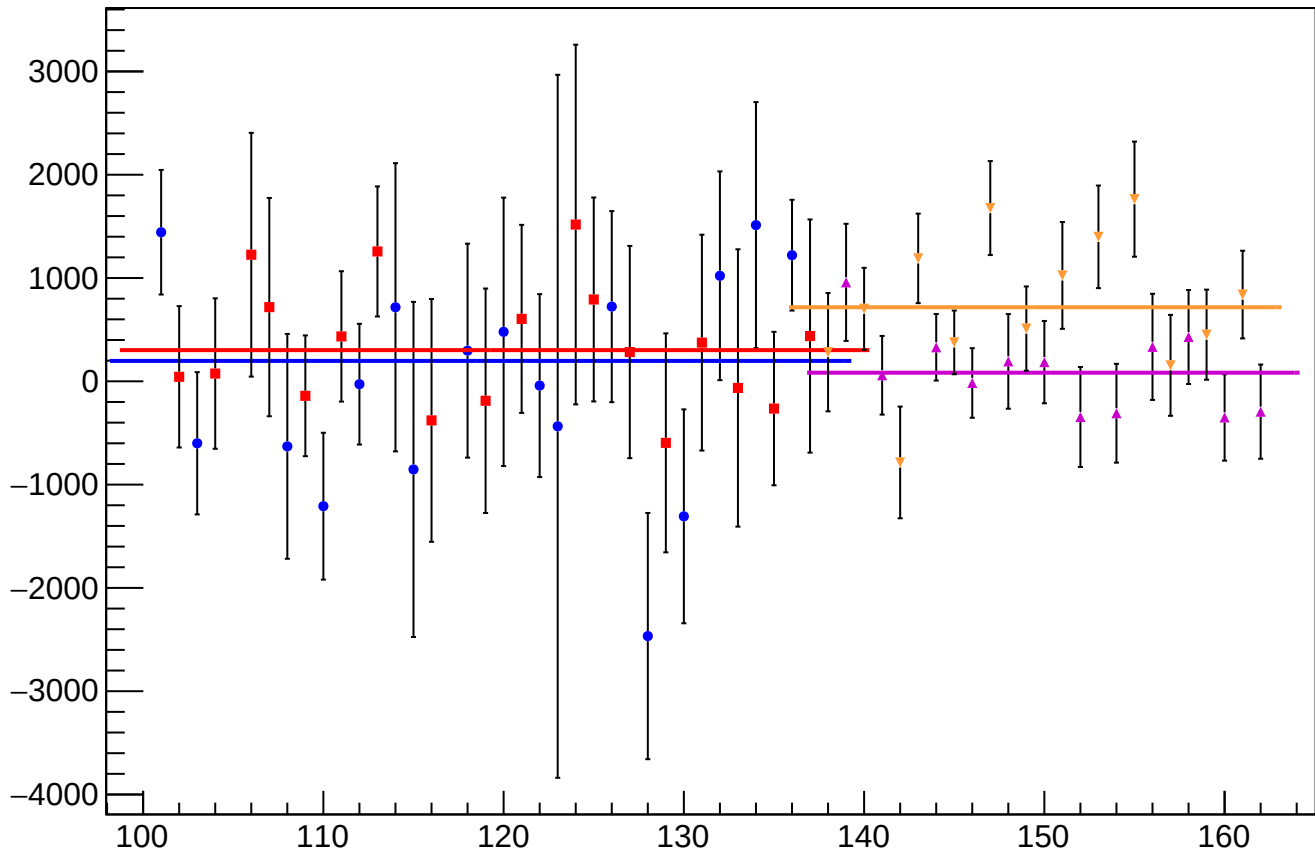
Left In: 384.273+/-0.088  $\chi^2/\text{NDF}$ : 438528.1/11

+ sign 422.525+/-0.076  $\chi^2/\text{NDF}$ : 1958160.5/29

All: 422.927+/-0.053  $\chi^2/\text{NDF}$ : 3779506.7/59

- sign 423.322+/-0.075  $\chi^2/\text{NDF}$ : 1821290.5/29

# asym\_sam\_1357\_avg\_mean vs Slug



Right In:  $197.561 \pm 211.480$   $\chi^2/\text{NDF}$ : 23.9/16

Left Out:  $717.095 \pm 123.555$   $\chi^2/\text{NDF}$ : 23.0/12

Right Out:  $301.856 \pm 205.700$   $\chi^2/\text{NDF}$ : 6.7/17

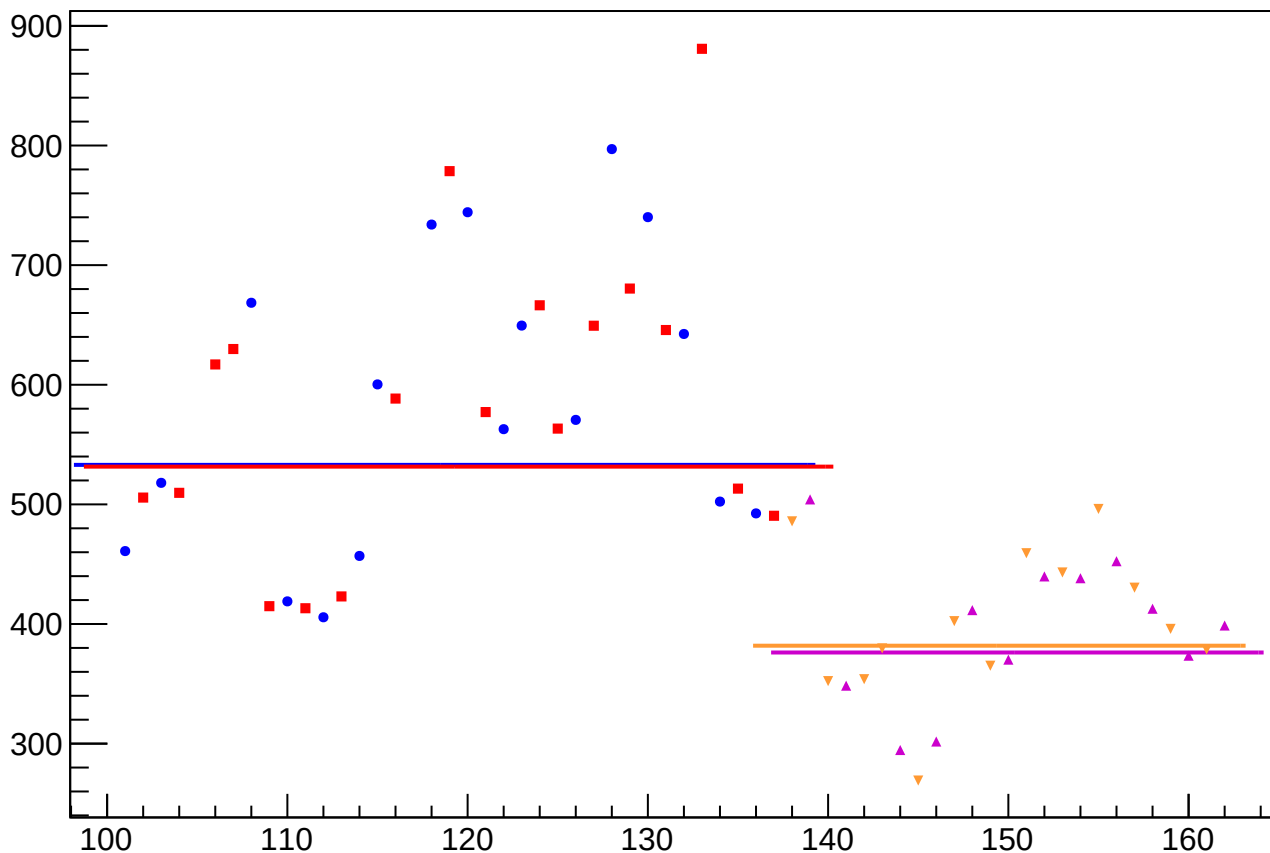
Left In:  $83.358 \pm 121.897$   $\chi^2/\text{NDF}$ : 7.2/11

+ sign  $584.887 \pm 106.682$   $\chi^2/\text{NDF}$ : 51.4/29

All:  $358.701 \pm 74.785$   $\chi^2/\text{NDF}$ : 75.0/59

- sign  $140.146 \pm 104.867$   $\chi^2/\text{NDF}$ : 14.7/29

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 533.031 $\pm$ 0.150  $\chi^2$ /NDF: 566851.1/16

Left Out: 381.863 $\pm$ 0.087  $\chi^2$ /NDF: 537839.8/12

Right Out: 531.559 $\pm$ 0.145  $\chi^2$ /NDF: 597920.9/17

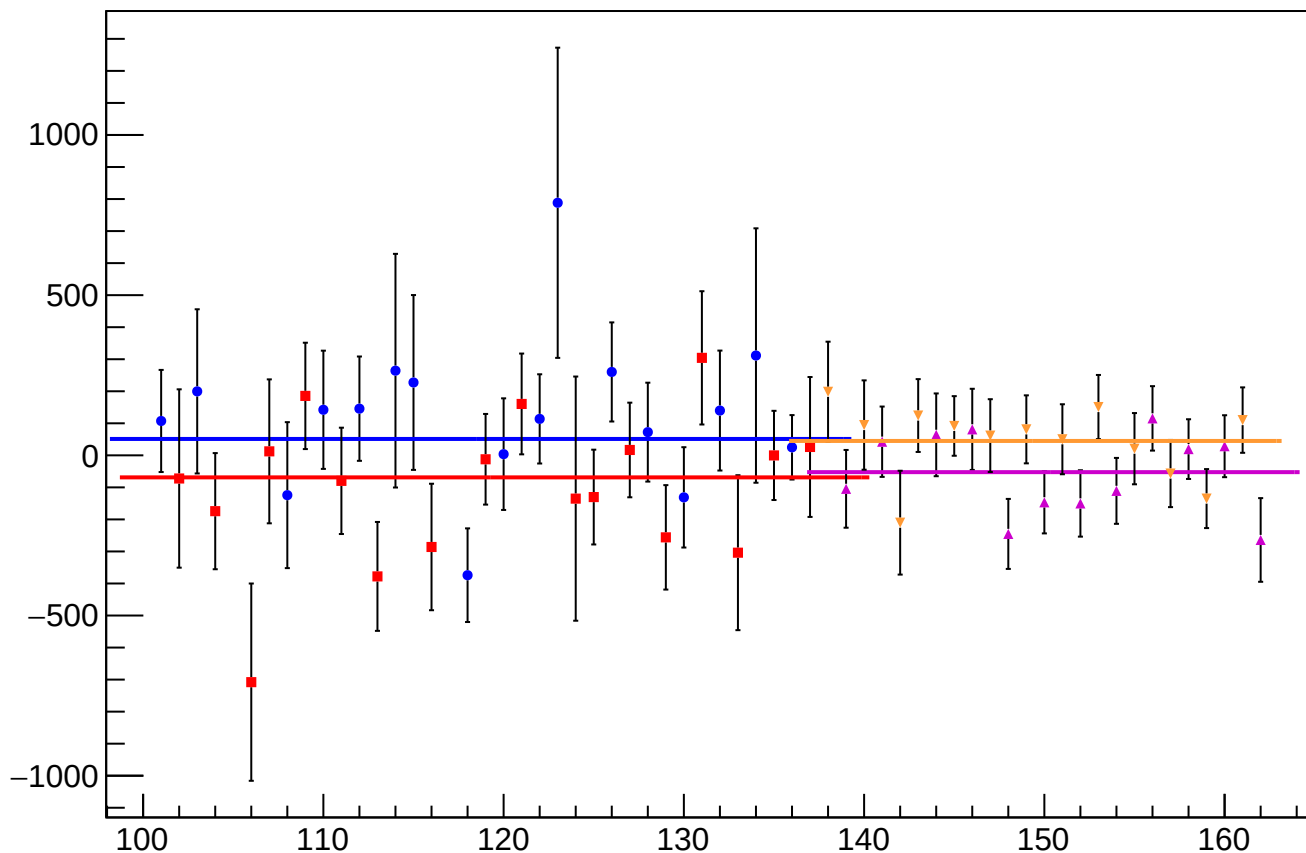
Left In: 376.182 $\pm$ 0.086  $\chi^2$ /NDF: 480863.4/11

+ sign 420.332 $\pm$ 0.075  $\chi^2$ /NDF: 1866550.7/29

All: 418.416 $\pm$ 0.053  $\chi^2$ /NDF: 3791159.9/59

- sign 416.564 $\pm$ 0.074  $\chi^2$ /NDF: 1923340.7/29

# dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 44.914 $\pm$ 30.731  $\chi^2$ /NDF: 10.8/12

Right Out: -68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

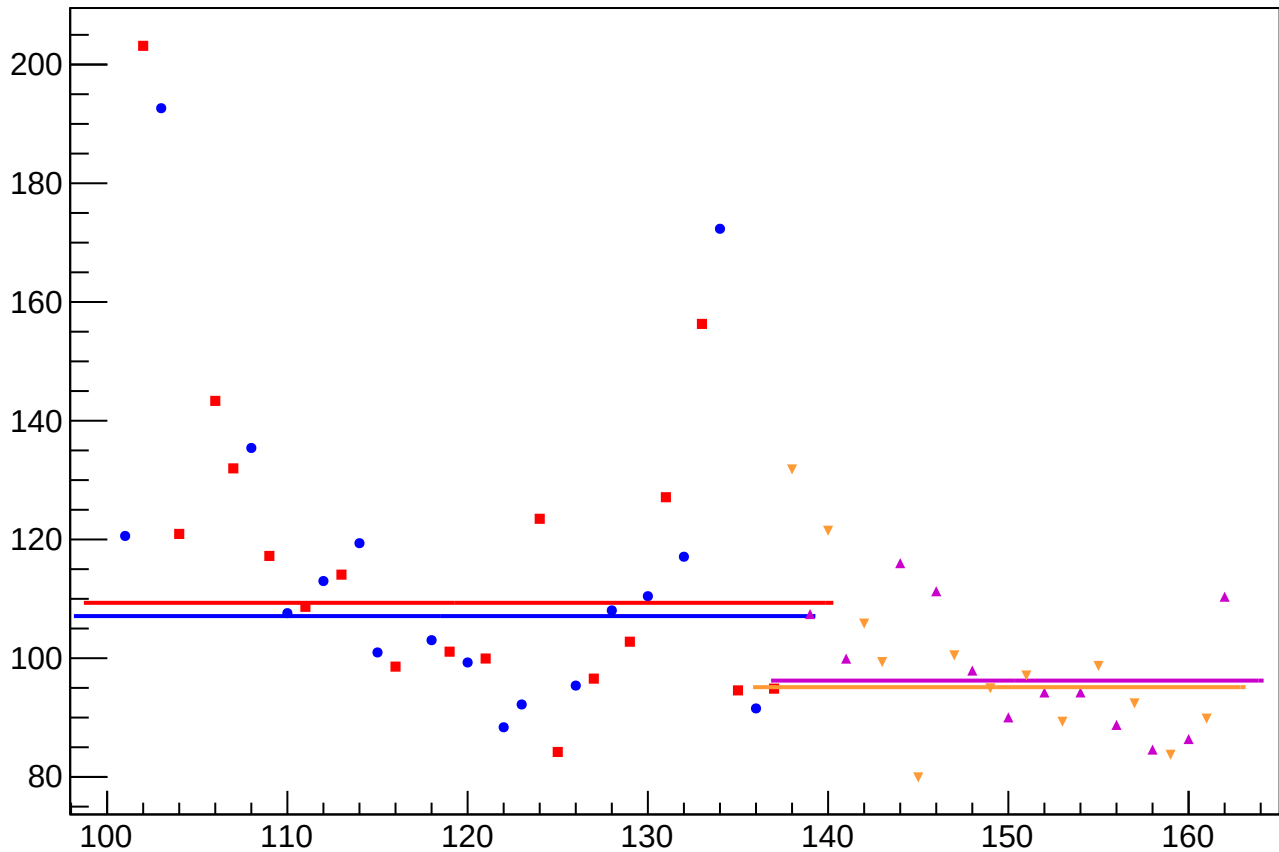
Left In: -52.455 $\pm$ 31.151  $\chi^2$ /NDF: 14.8/11

+ sign 47.066 $\pm$ 24.886  $\chi^2$ /NDF: 28.2/29

All: -4.888 $\pm$ 17.703  $\chi^2$ /NDF: 72.3/59

- sign -58.107 $\pm$ 25.187  $\chi^2$ /NDF: 35.3/29

# dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 107.094+/-0.030  $\chi^2/\text{NDF}$ : 437755.4/16

Left Out: 95.123+/-0.022  $\chi^2/\text{NDF}$ : 297550.4/12

Right Out: 109.329+/-0.030  $\chi^2/\text{NDF}$ : 506023.6/17

Left In: 96.230+/-0.022  $\chi^2/\text{NDF}$ : 190875.2/11

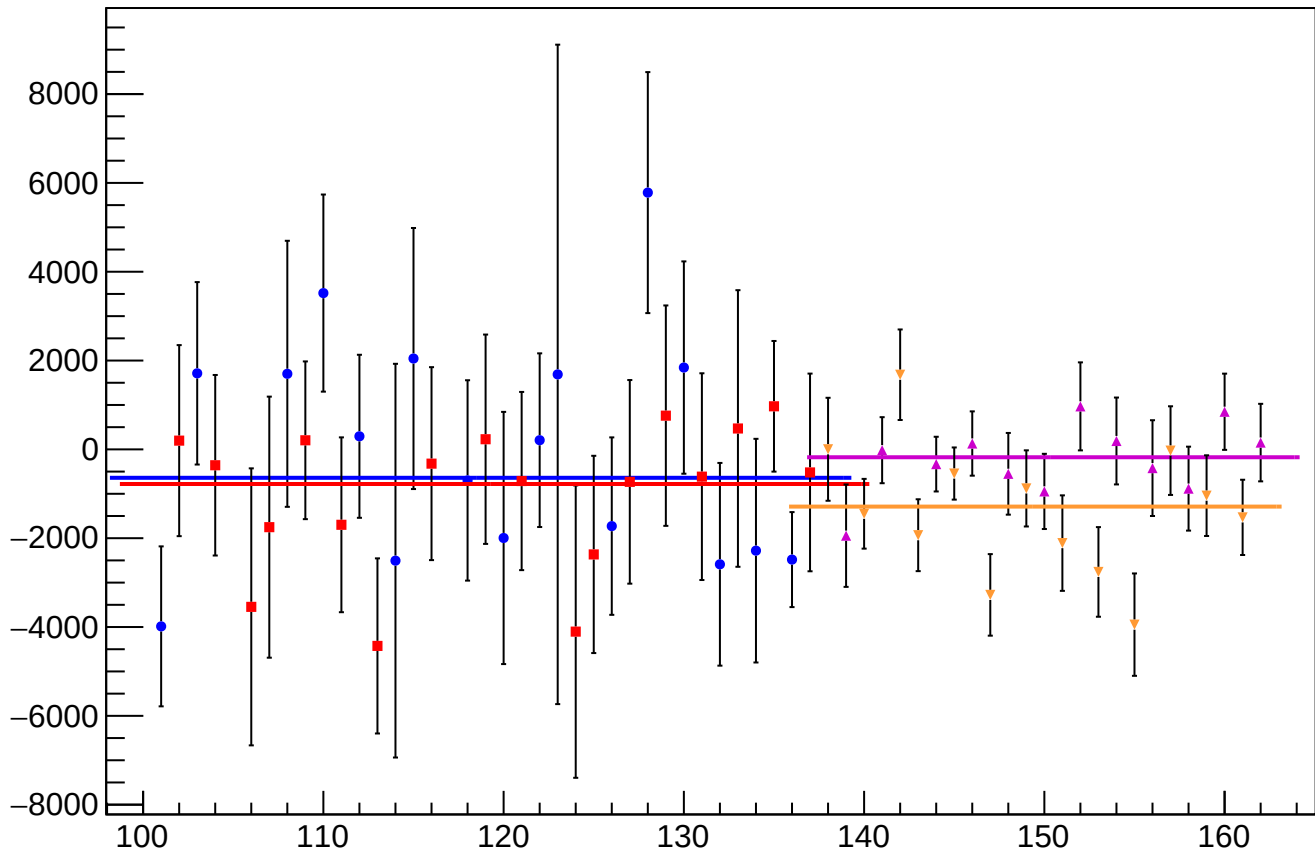
+ sign 99.244+/-0.018  $\chi^2/\text{NDF}$ : 839773.3/29

All: 99.995+/-0.013  $\chi^2/\text{NDF}$ : 1662826.5/59

- sign 100.765+/-0.018  $\chi^2/\text{NDF}$ : 819358.1/29



# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In: -639.847+/-519.248  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: -1288.287+/-246.096  $\chi^2/\text{NDF}$ : 26.7/12

Right Out: -779.450+/-516.450  $\chi^2/\text{NDF}$ : 8.8/17

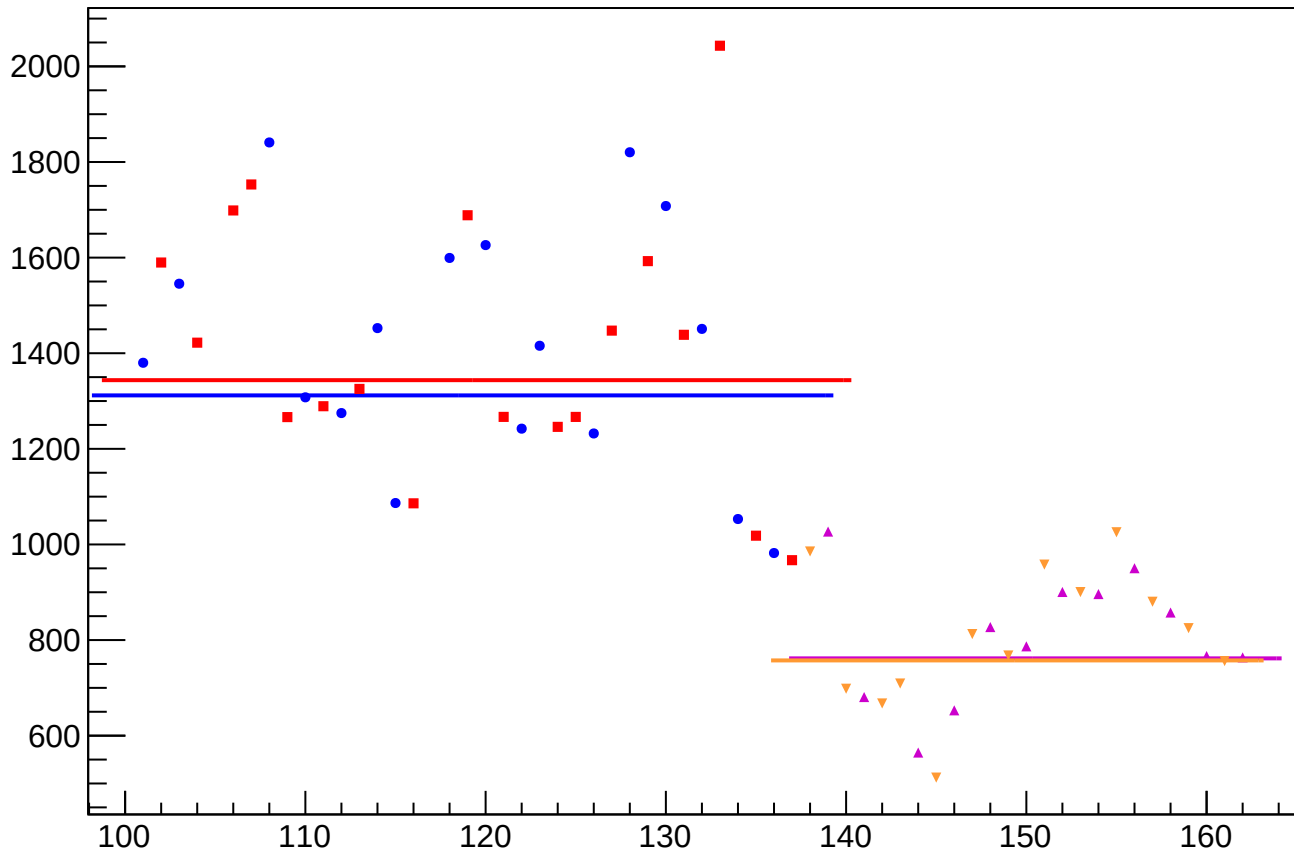
Left In: -177.225+/-246.955  $\chi^2/\text{NDF}$ : 7.3/11

+ sign -1169.347+/-222.384  $\chi^2/\text{NDF}$ : 49.7/29

All: -730.133+/-157.394  $\chi^2/\text{NDF}$ : 74.8/59

- sign -289.299+/-222.793  $\chi^2/\text{NDF}$ : 17.2/29

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1311.795 $\pm$ 0.367  $\chi^2$ /NDF: 512676.0/16

Left Out: 757.431 $\pm$ 0.174  $\chi^2$ /NDF: 726620.7/12

Right Out: 1343.659 $\pm$ 0.365  $\chi^2$ /NDF: 461009.9/17

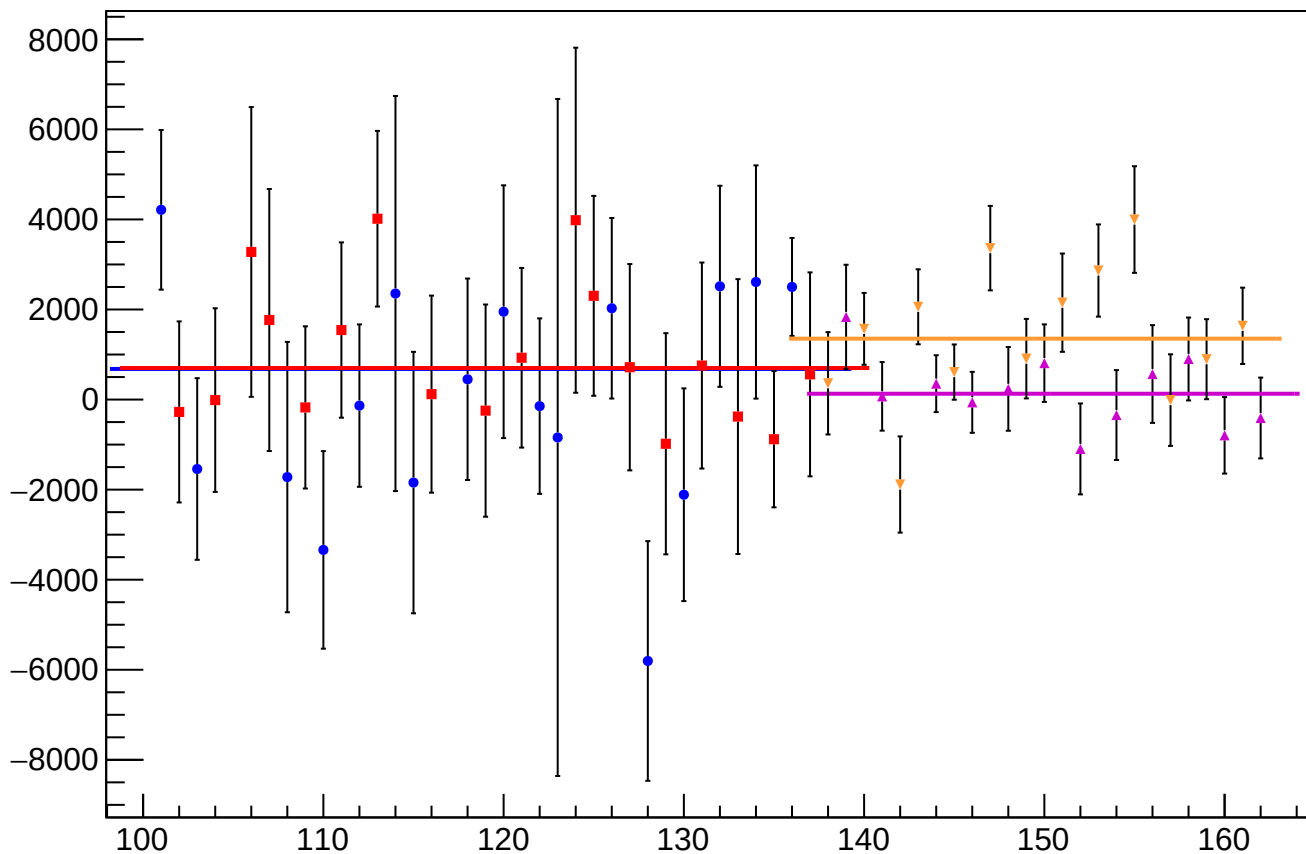
Left In: 761.699 $\pm$ 0.175  $\chi^2$ /NDF: 550143.4/11

+ sign 859.115 $\pm$ 0.157  $\chi^2$ /NDF: 3100809.0/29

All: 864.548 $\pm$ 0.111  $\chi^2$ /NDF: 6181306.6/59

- sign 870.002 $\pm$ 0.158  $\chi^2$ /NDF: 3078105.5/29

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 679.925 $\pm$ 517.508  $\chi^2$ /NDF: 22.6/16

Left Out: 1352.599 $\pm$ 251.002  $\chi^2$ /NDF:27.0/12

Right Out: 700.930 $\pm$ 517.319  $\chi^2$ /NDF: 7.6/17

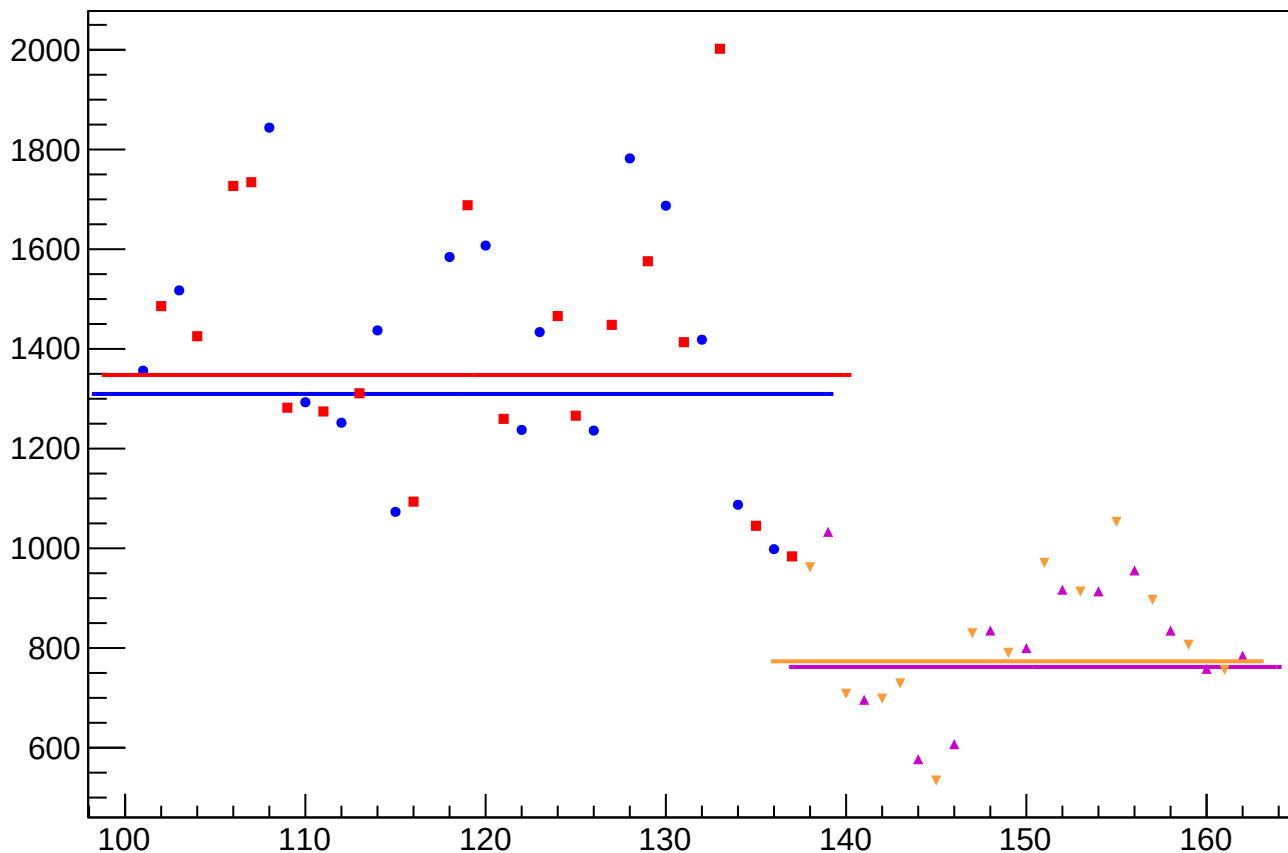
Left In: 129.664 $\pm$ 247.619  $\chi^2$ /NDF:7.1/11

+ sign 1224.492 $\pm$ 225.840  $\chi^2$ /NDF: 50.9/29

All: 724.845 $\pm$ 158.806  $\chi^2$ /NDF: 76.3/59

- sign 236.151 $\pm$ 223.351  $\chi^2$ /NDF: 15.7/29

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1309.654+/-0.366  $\chi^2/\text{NDF}$ : 459314.8/16

Left Out: 773.385+/-0.177  $\chi^2/\text{NDF}$ : 643205.1/12

Right Out: 1347.768+/-0.366  $\chi^2/\text{NDF}$ : 405345.0/17

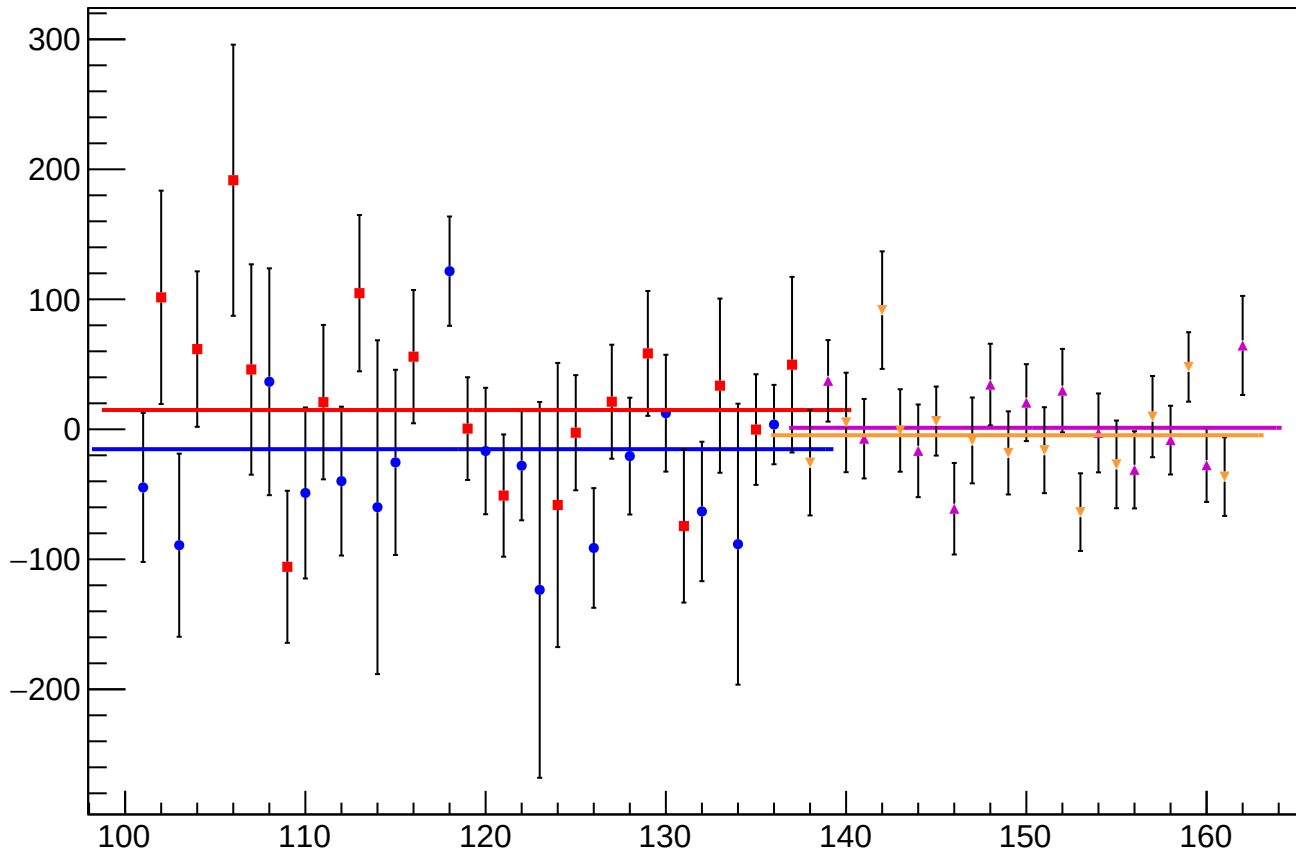
Left In: 762.004+/-0.175  $\chi^2/\text{NDF}$ : 587794.1/11

+ sign 875.515+/-0.160  $\chi^2/\text{NDF}$ : 2841151.7/29

All: 873.330+/-0.112  $\chi^2/\text{NDF}$ : 5920909.5/59

- sign 871.193+/-0.158  $\chi^2/\text{NDF}$ : 3079387.6/29

# 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:  $-4.552 \pm 8.937$   $\chi^2/\text{NDF}$ : 14.9/12

Right Out:  $14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

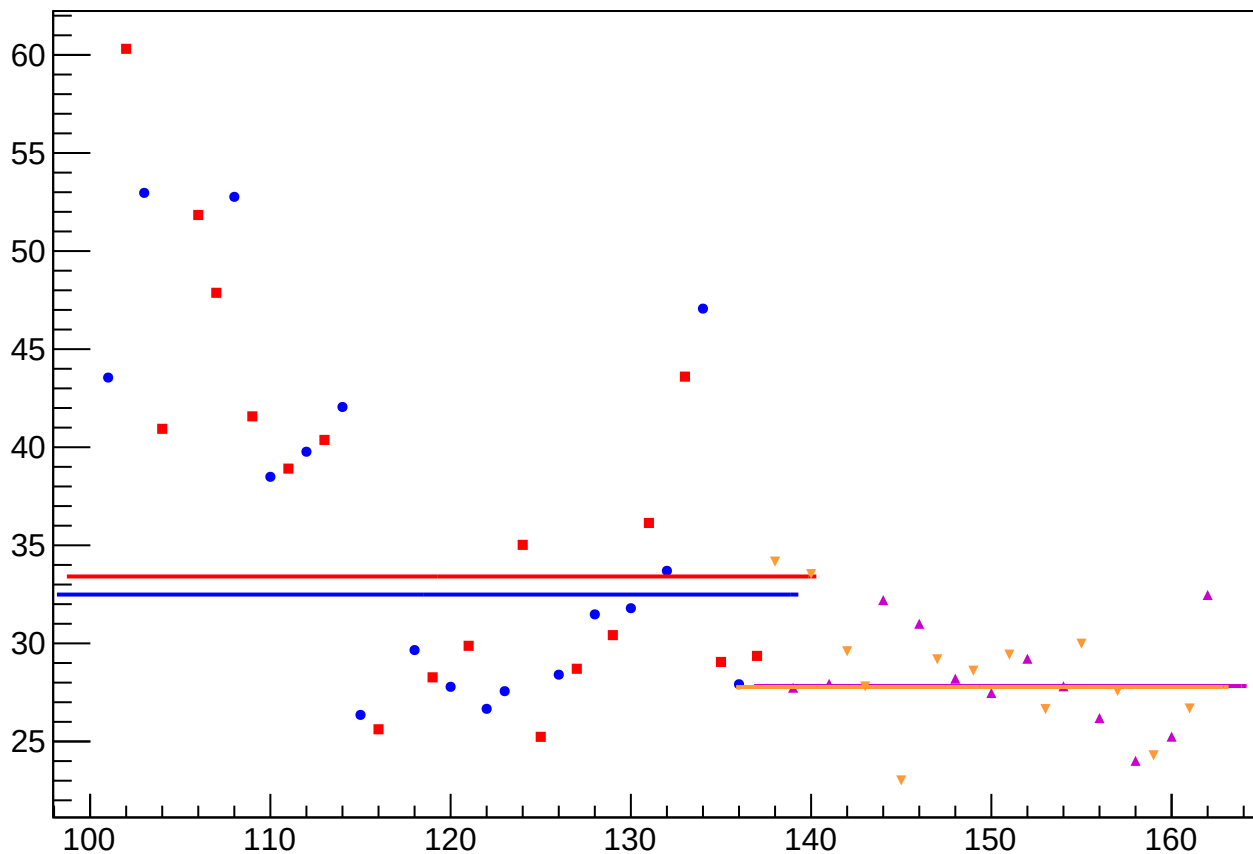
Left In:  $1.173 \pm 8.981$   $\chi^2/\text{NDF}$ : 12.2/11

+ sign  $-8.029 \pm 7.347$   $\chi^2/\text{NDF}$ : 33.7/29

All:  $-1.297 \pm 5.216$   $\chi^2/\text{NDF}$ : 66.6/59

- sign  $5.544 \pm 7.407$   $\chi^2/\text{NDF}$ : 31.2/29

# dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 32.489 $\pm$ 0.009  $\chi^2$ /NDF: 594480.9/16

Left Out: 27.775 $\pm$ 0.006  $\chi^2$ /NDF: 220581.5/12

Right Out: 33.411 $\pm$ 0.009  $\chi^2$ /NDF: 725189.8/17

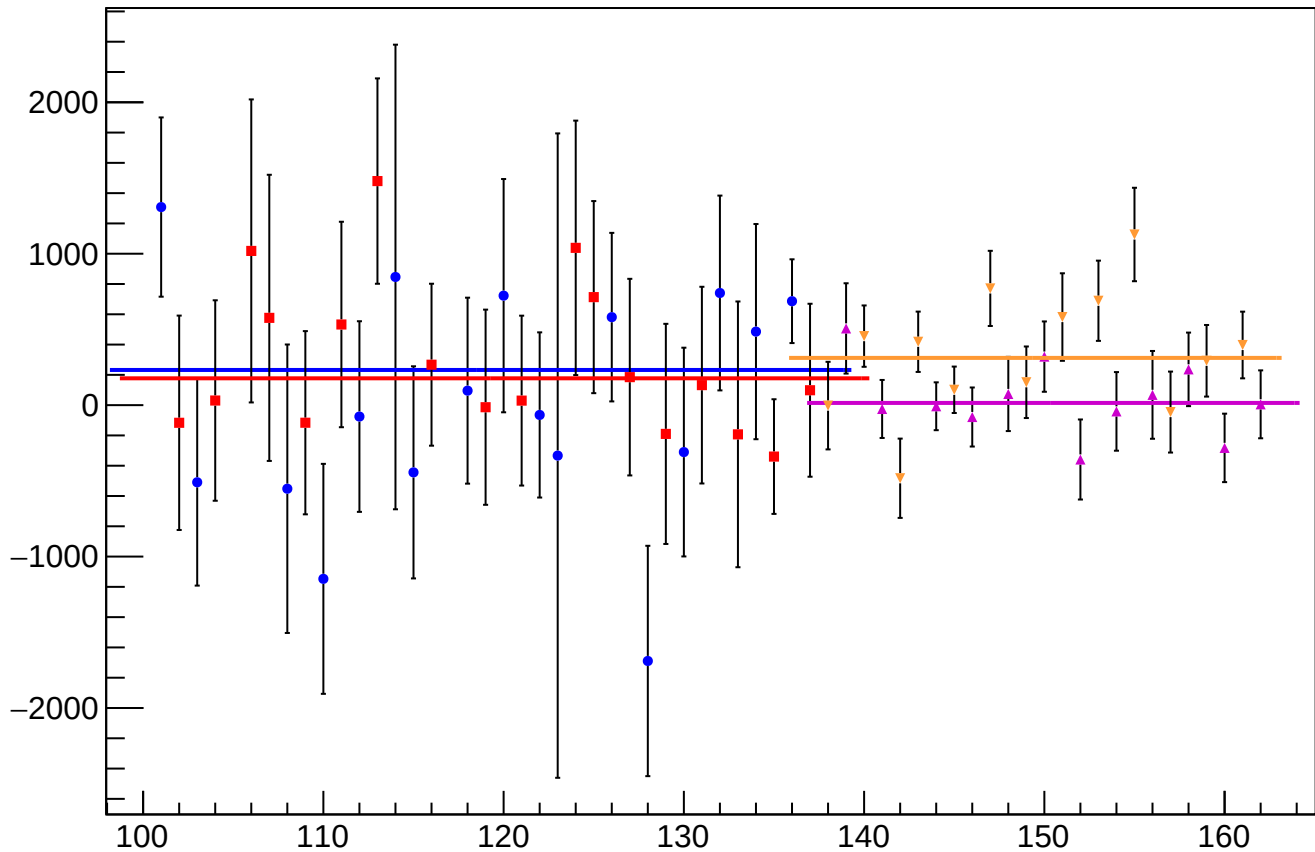
Left In: 27.827 $\pm$ 0.006  $\chi^2$ /NDF: 144796.6/11

+ sign 29.303 $\pm$ 0.005  $\chi^2$ /NDF: 995368.8/29

All: 29.457 $\pm$ 0.004  $\chi^2$ /NDF: 2114411.3/59

- sign 29.613 $\pm$ 0.005  $\chi^2$ /NDF: 1117276.3/29

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 232.332 $\pm$ 148.607  $\chi^2$ /NDF: 21.5/16

Left Out: 312.013 $\pm$ 64.272  $\chi^2$ /NDF:28.8/12

Right Out: 177.151 $\pm$ 150.003  $\chi^2$ /NDF: 9.6/17

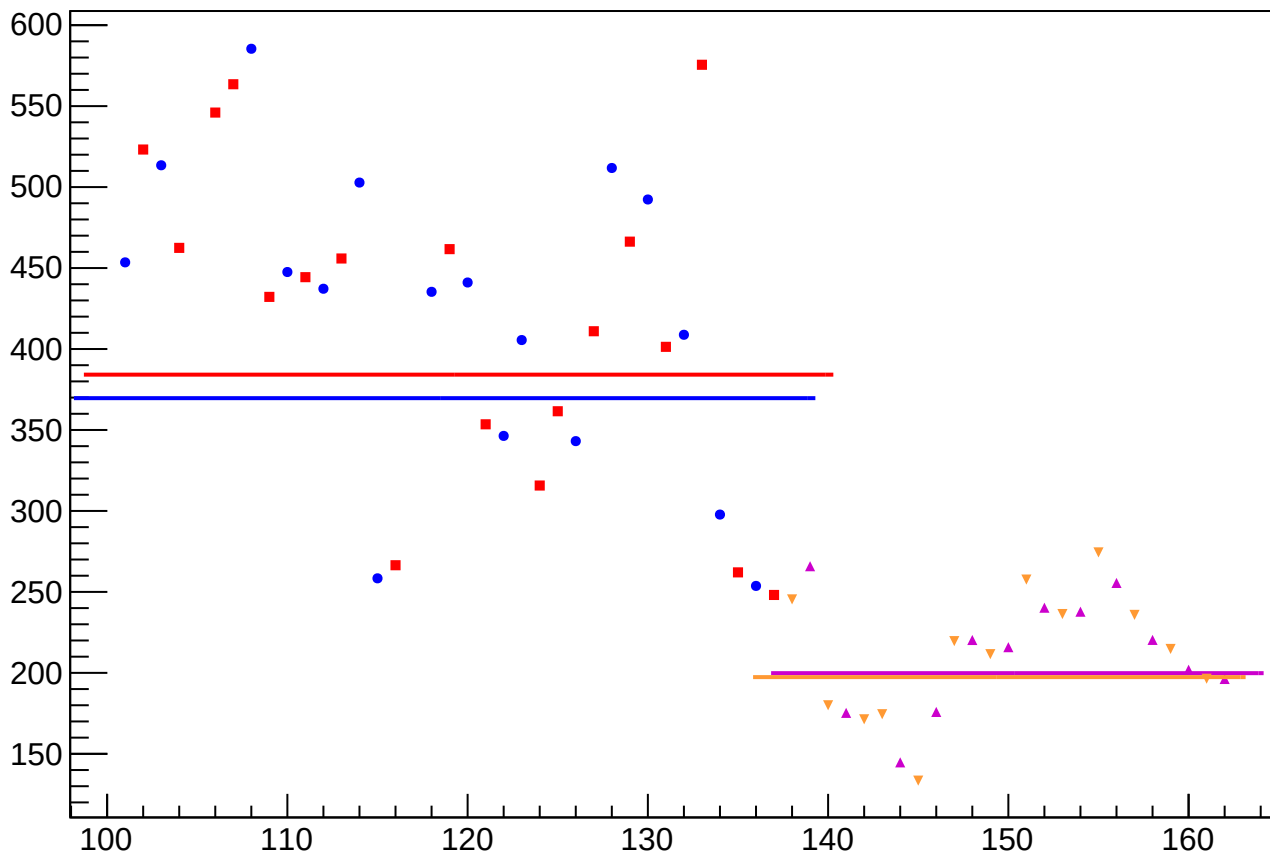
Left In: 14.616 $\pm$ 64.887  $\chi^2$ /NDF:9.4/11

+ sign 299.457 $\pm$ 58.991  $\chi^2$ /NDF: 50.5/29

All: 171.077 $\pm$ 41.910  $\chi^2$ /NDF: 80.1/59

- sign 40.235 $\pm$ 59.554  $\chi^2$ /NDF: 20.0/29

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 369.650 $\pm$ 0.105  $\chi^2$ /NDF: 902775.2/16

Left Out: 197.372 $\pm$ 0.045  $\chi^2$ /NDF: 794353.2/12

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

Left In: 199.822 $\pm$ 0.046  $\chi^2$ /NDF: 606066.9/11

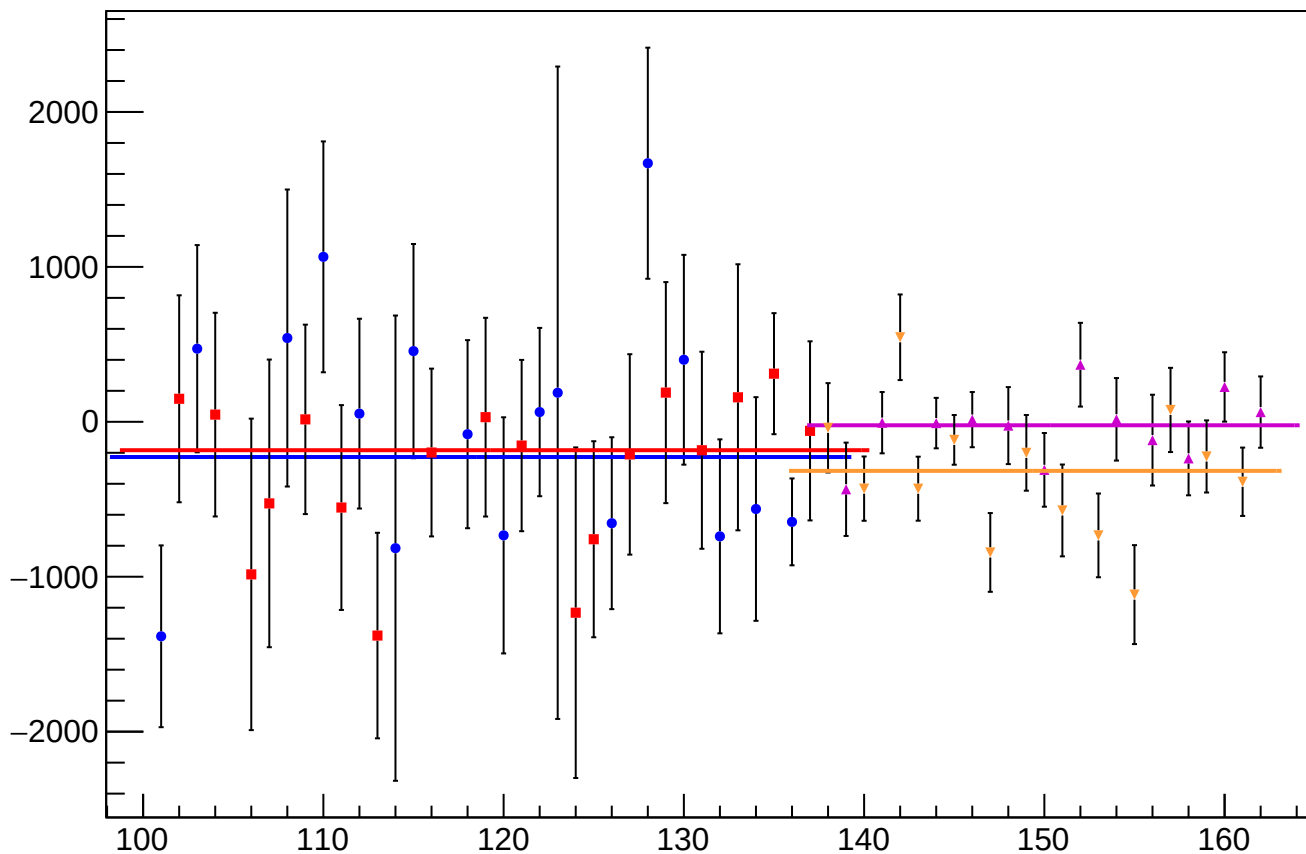
+ sign 224.519 $\pm$ 0.042  $\chi^2$ /NDF: 3961462.7/29

All: 226.678 $\pm$ 0.030  $\chi^2$ /NDF: 7992534.3/59

- sign 228.880 $\pm$ 0.042  $\chi^2$ /NDF: 4025658.4/29



# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -227.279+/-147.923  $\chi^2/\text{NDF}$ : 21.8/16

Left Out: -316.602+/-65.894  $\chi^2/\text{NDF}$ : 29.1/12

Right Out: -183.318+/-150.486  $\chi^2/\text{NDF}$ : 8.8/17

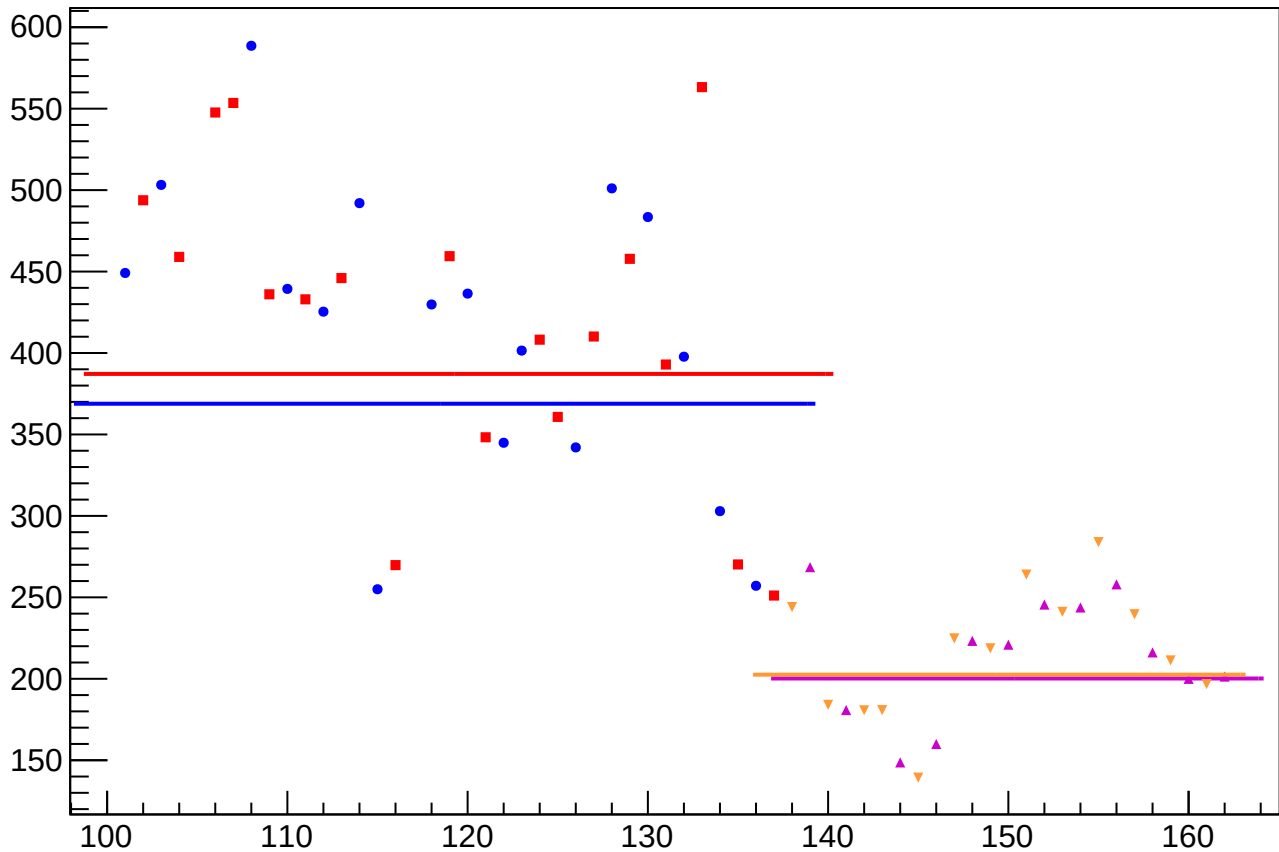
Left In: -22.412+/-65.167  $\chi^2/\text{NDF}$ : 7.8/11

+ sign -301.812+/-60.192  $\chi^2/\text{NDF}$ : 51.2/29

All: -173.987+/-42.423  $\chi^2/\text{NDF}$ : 77.7/59

- sign -47.821+/-59.801  $\chi^2/\text{NDF}$ : 17.5/29

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.864 $\pm$ 0.105  $\chi^2$ /NDF: 829732.0/16

Left Out: 202.537 $\pm$ 0.047  $\chi^2$ /NDF: 724764.7/12

Right Out: 387.165 $\pm$ 0.106  $\chi^2$ /NDF: 758108.0/17

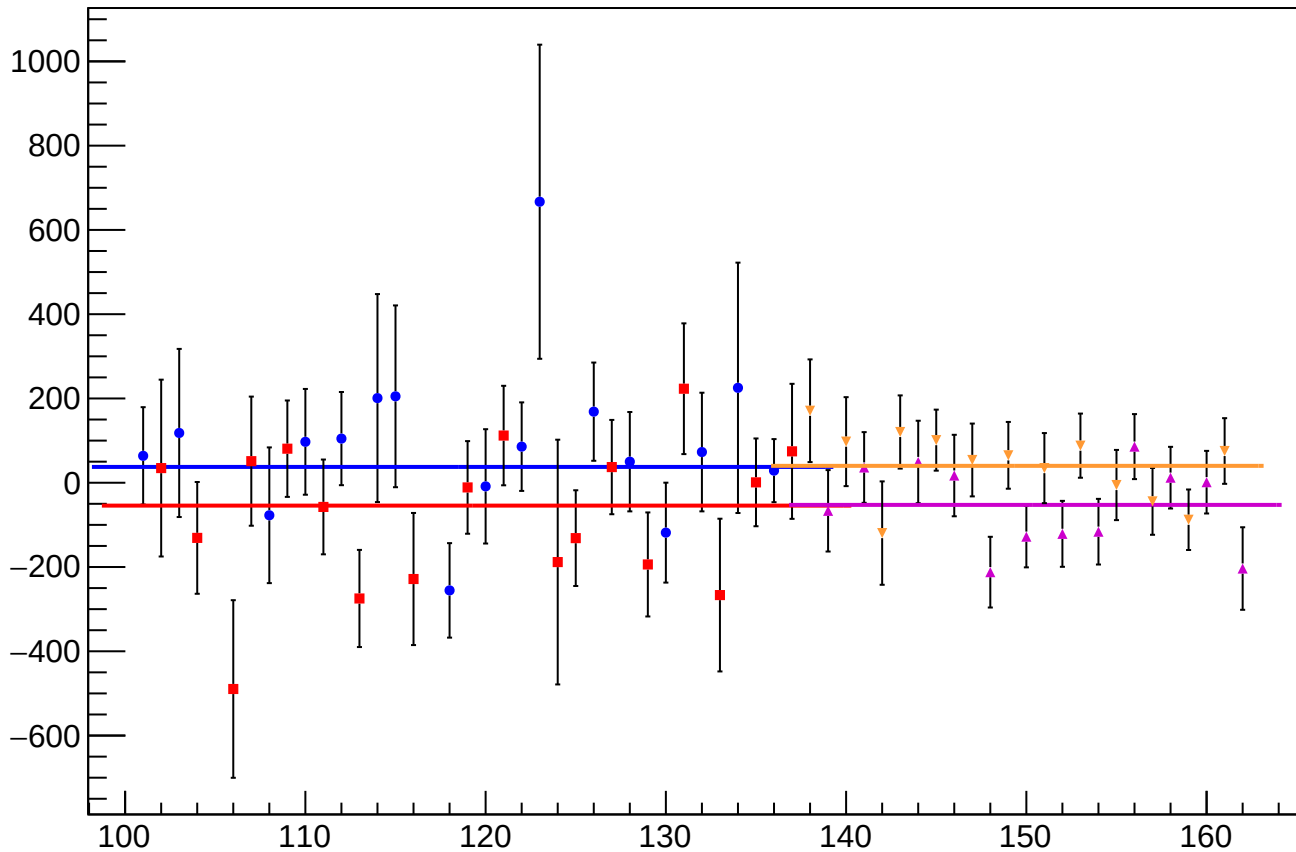
Left In: 200.184 $\pm$ 0.046  $\chi^2$ /NDF: 653452.2/11

+ sign 230.077 $\pm$ 0.043  $\chi^2$ /NDF: 3664430.2/29

All: 229.893 $\pm$ 0.030  $\chi^2$ /NDF: 7676103.4/59

- sign 229.711 $\pm$ 0.042  $\chi^2$ /NDF: 4011636.0/29

# dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In:  $37.535 \pm 31.460$   $\chi^2/\text{NDF}$ : 15.8/16

Left Out:  $40.090 \pm 23.447$   $\chi^2/\text{NDF}$ : 10.0/12

Right Out:  $-54.274 \pm 31.489$   $\chi^2/\text{NDF}$ : 21.8/17

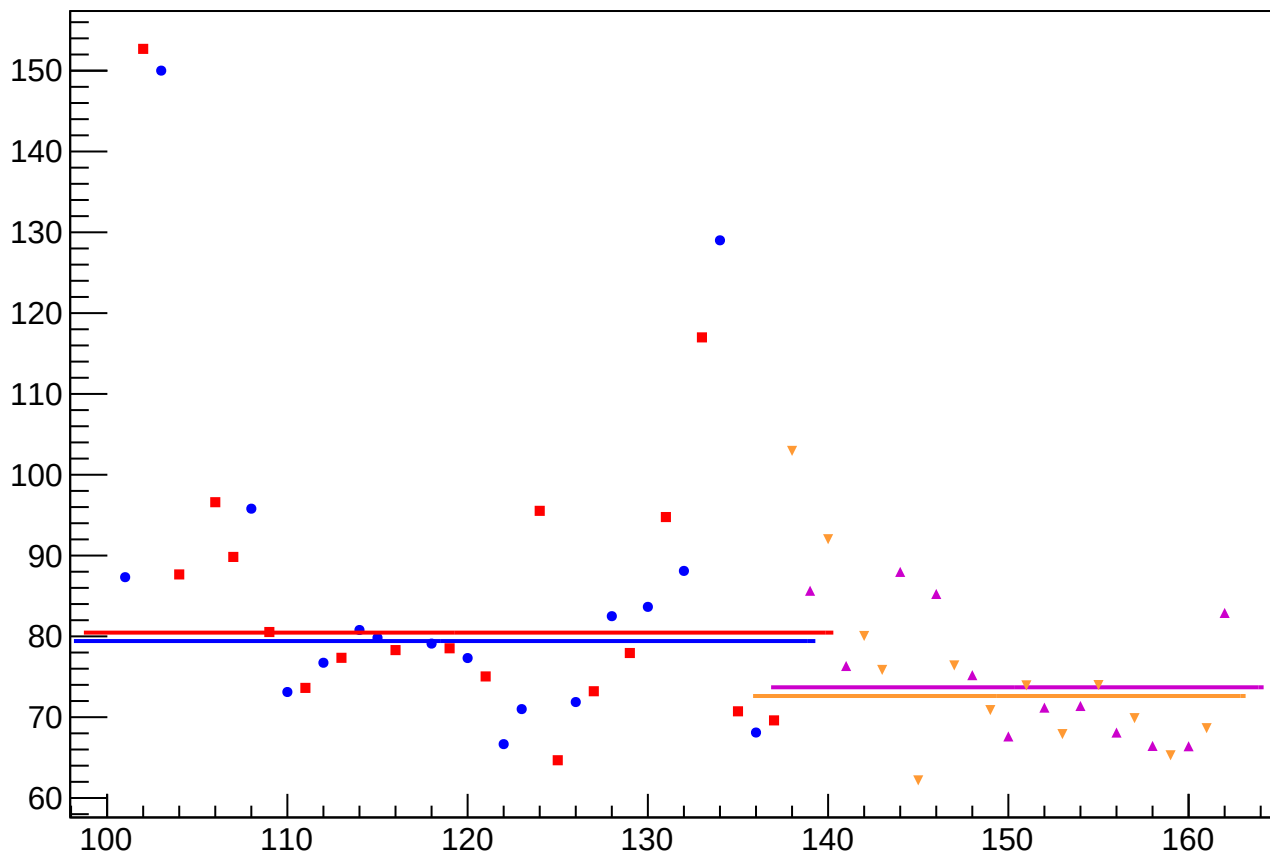
Left In:  $-52.586 \pm 23.841$   $\chi^2/\text{NDF}$ : 15.8/11

+ sign  $39.178 \pm 18.800$   $\chi^2/\text{NDF}$ : 25.9/29

All:  $-6.504 \pm 13.366$   $\chi^2/\text{NDF}$ : 75.4/59

- sign  $-53.201 \pm 19.008$   $\chi^2/\text{NDF}$ : 37.6/29

dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 79.421+/-0.022  $\chi^2$ /NDF: 439047.1/16

Left Out: 72.621+/-0.017  $\chi^2$ /NDF: 285068.5/12

Right Out: 80.465+/-0.022  $\chi^2$ /NDF: 454376.0/17

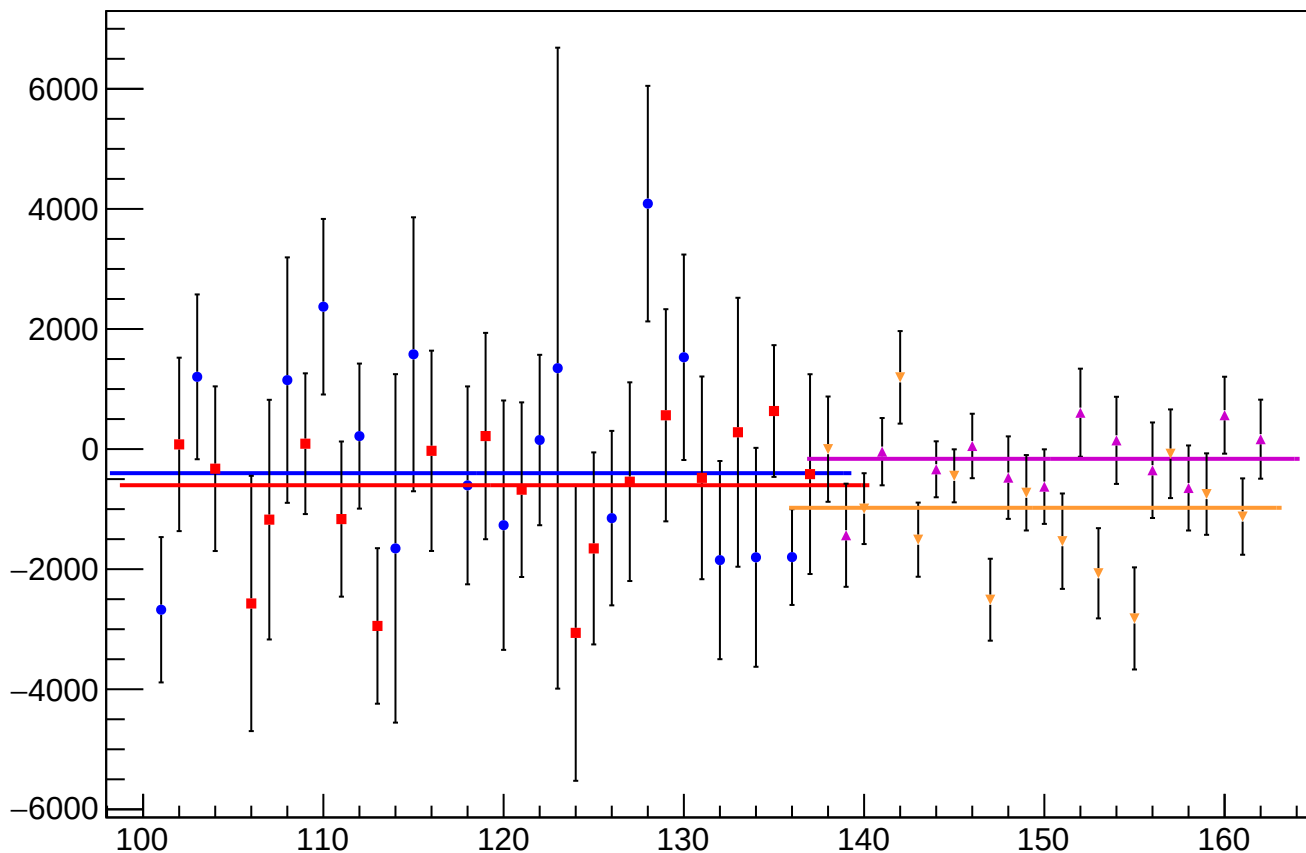
Left In: 73.699+/-0.017  $\chi^2$ /NDF: 189261.5/11

+ sign 75.049+/-0.013  $\chi^2$ /NDF: 784197.4/29

All: 75.601+/-0.009  $\chi^2$ /NDF: 1490012.7/59

- sign 76.164+/-0.013  $\chi^2$ /NDF: 702335.3/29

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In:  $-401.047 \pm 368.480$   $\chi^2/\text{NDF}$ : 21.9/16

Left Out:  $-977.860 \pm 184.077$   $\chi^2/\text{NDF}$ : 25.5/12

Right Out:  $-601.891 \pm 363.668$   $\chi^2/\text{NDF}$ : 8.7/17

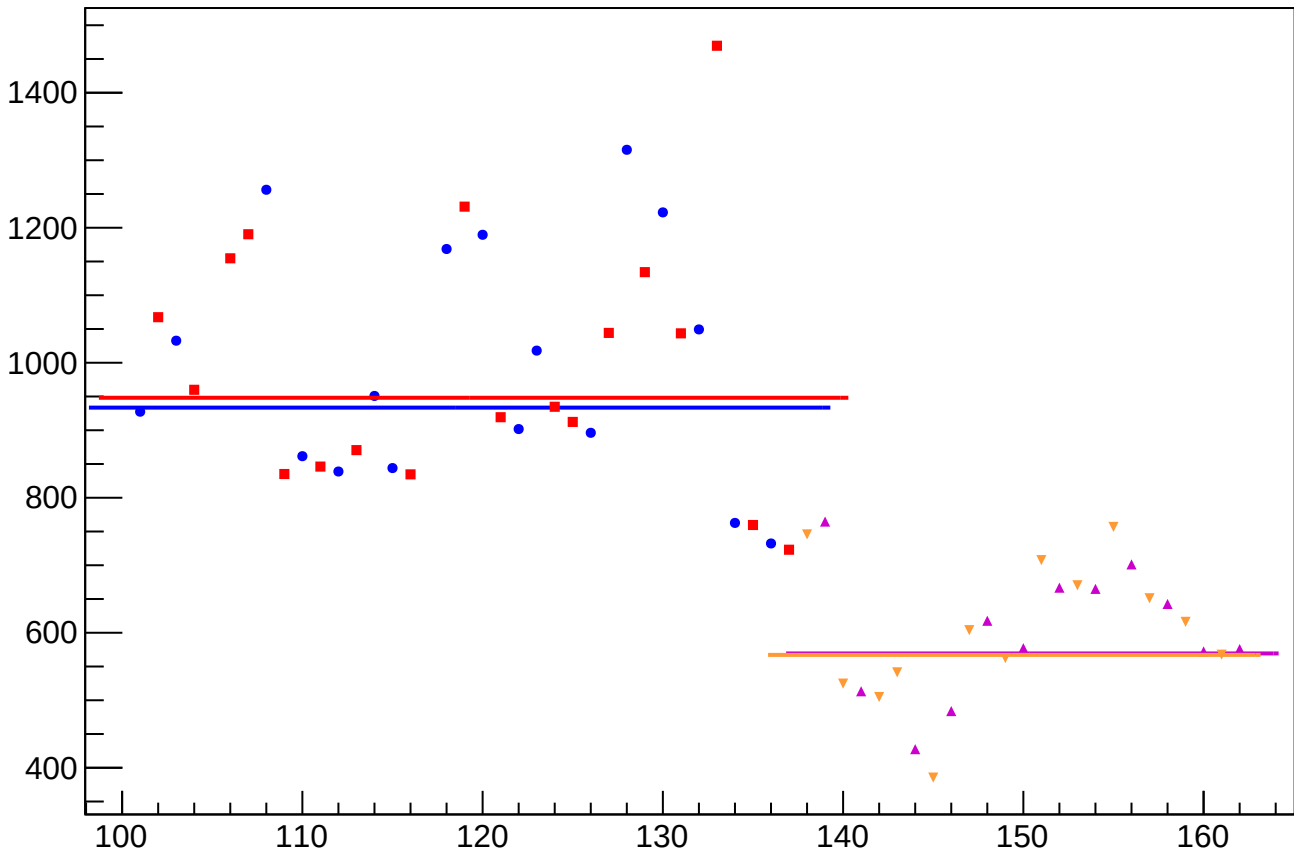
Left In:  $-162.151 \pm 184.426$   $\chi^2/\text{NDF}$ : 6.6/11

+ sign  $-862.661 \pm 164.673$   $\chi^2/\text{NDF}$ : 49.4/29

All:  $-557.034 \pm 116.374$   $\chi^2/\text{NDF}$ : 72.8/59

- sign  $-252.108 \pm 164.484$   $\chi^2/\text{NDF}$ : 16.5/29

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 933.530 $\pm$ 0.261  $\chi^2$ /NDF: 442321.9/16

Left Out: 567.197 $\pm$ 0.130  $\chi^2$ /NDF: 690570.2/12

Right Out: 948.131 $\pm$ 0.257  $\chi^2$ /NDF: 405153.7/17

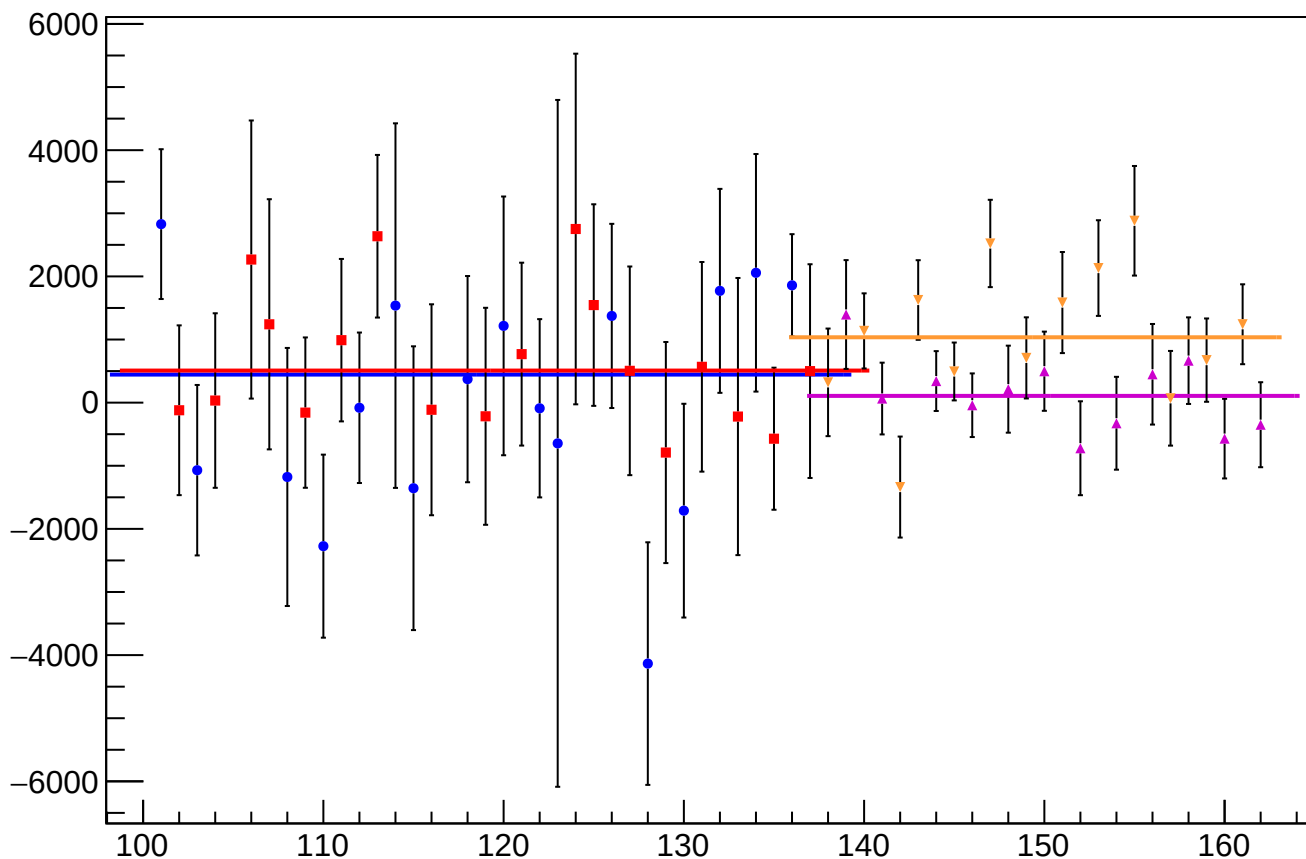
Left In: 569.356 $\pm$ 0.130  $\chi^2$ /NDF: 516130.7/11

+ sign 640.360 $\pm$ 0.116  $\chi^2$ /NDF: 2714866.0/29

All: 643.604 $\pm$ 0.082  $\chi^2$ /NDF: 5363489.7/59

- sign 646.841 $\pm$ 0.116  $\chi^2$ /NDF: 2647072.9/29

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 444.669+/-367.099  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 1035.481+/-186.540  $\chi^2/\text{NDF}$ : 25.8/12

Right Out: 508.221+/-364.112  $\chi^2/\text{NDF}$ : 7.3/17

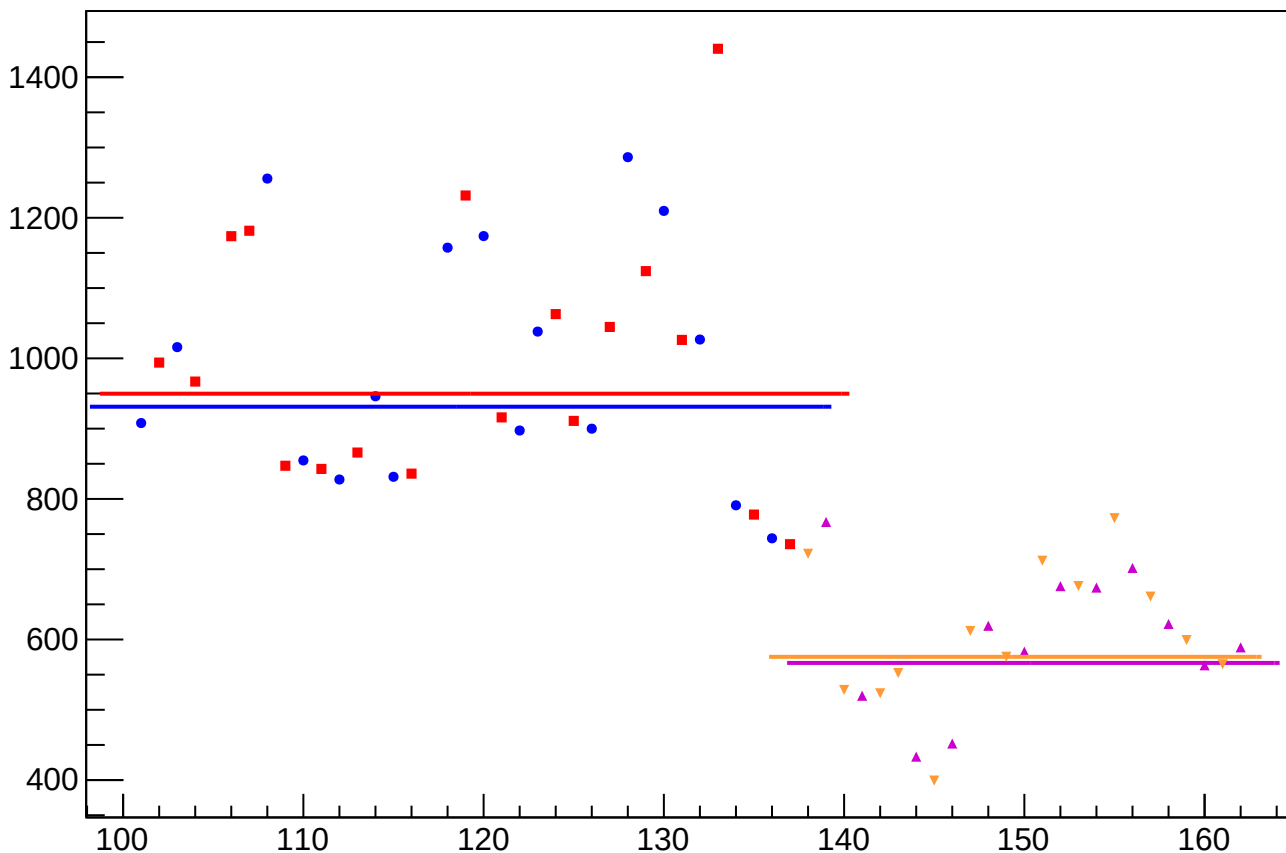
Left In: 107.033+/-183.983  $\chi^2/\text{NDF}$ : 7.0/11

+ sign 914.233+/-166.301  $\chi^2/\text{NDF}$ : 50.8/29

All: 546.843+/-116.847  $\chi^2/\text{NDF}$ : 75.7/59

- sign 188.631+/-164.211  $\chi^2/\text{NDF}$ : 15.3/29

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 931.203 $\pm$ 0.260  $\chi^2$ /NDF: 400242.2/16

Left Out: 575.343 $\pm$ 0.132  $\chi^2$ /NDF: 609455.8/12

Right Out: 949.740 $\pm$ 0.257  $\chi^2$ /NDF: 365550.8/17

Left In: 566.679 $\pm$ 0.130  $\chi^2$ /NDF: 554924.3/11

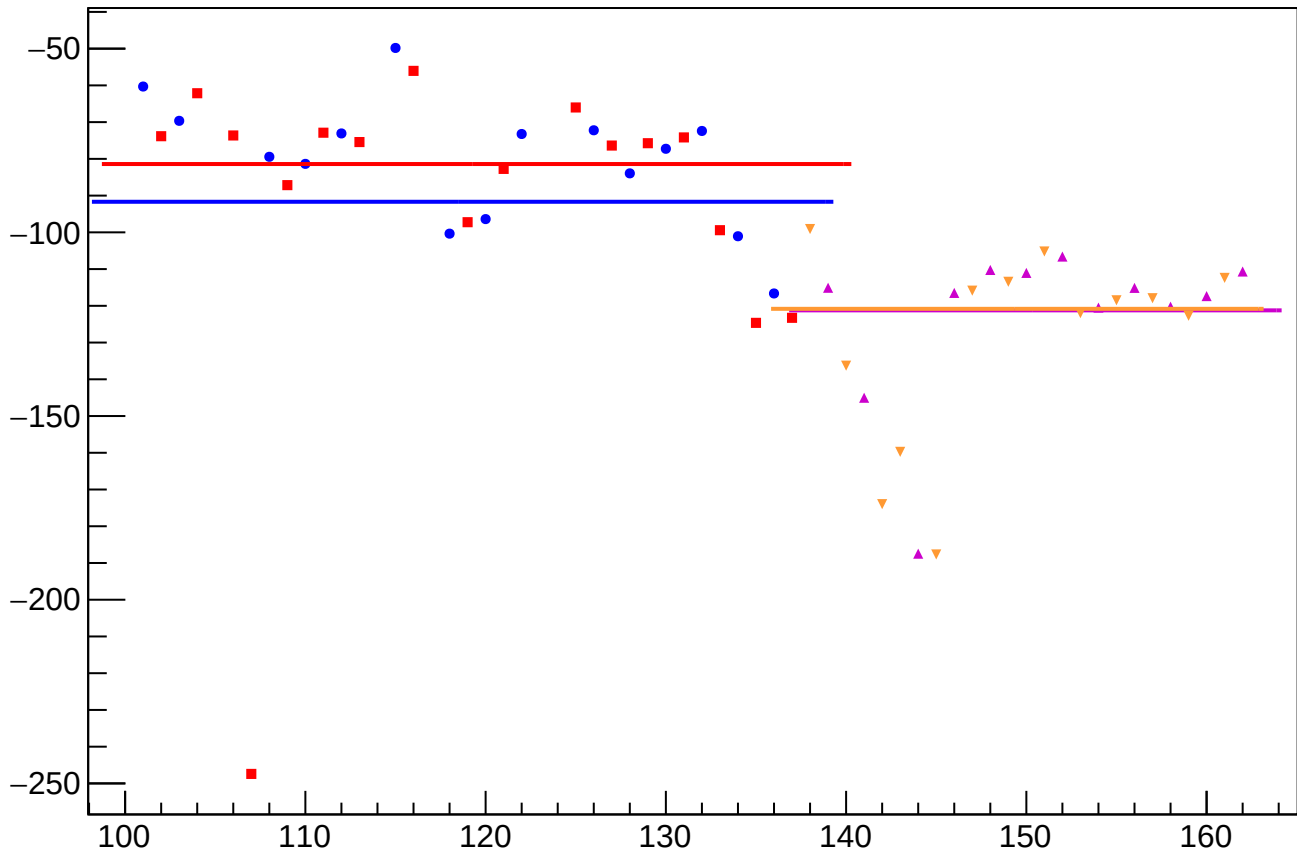
+ sign 648.373 $\pm$ 0.118  $\chi^2$ /NDF: 2503413.6/29

All: 646.458 $\pm$ 0.083  $\chi^2$ /NDF: 5187778.8/59

- sign 644.590 $\pm$ 0.116  $\chi^2$ /NDF: 2683841.3/29



# dit\_usl\_4aX\_slope vs Slug



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-120.819 \pm 0.081$   $\chi^2/\text{NDF}$ : 22696.1/12

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

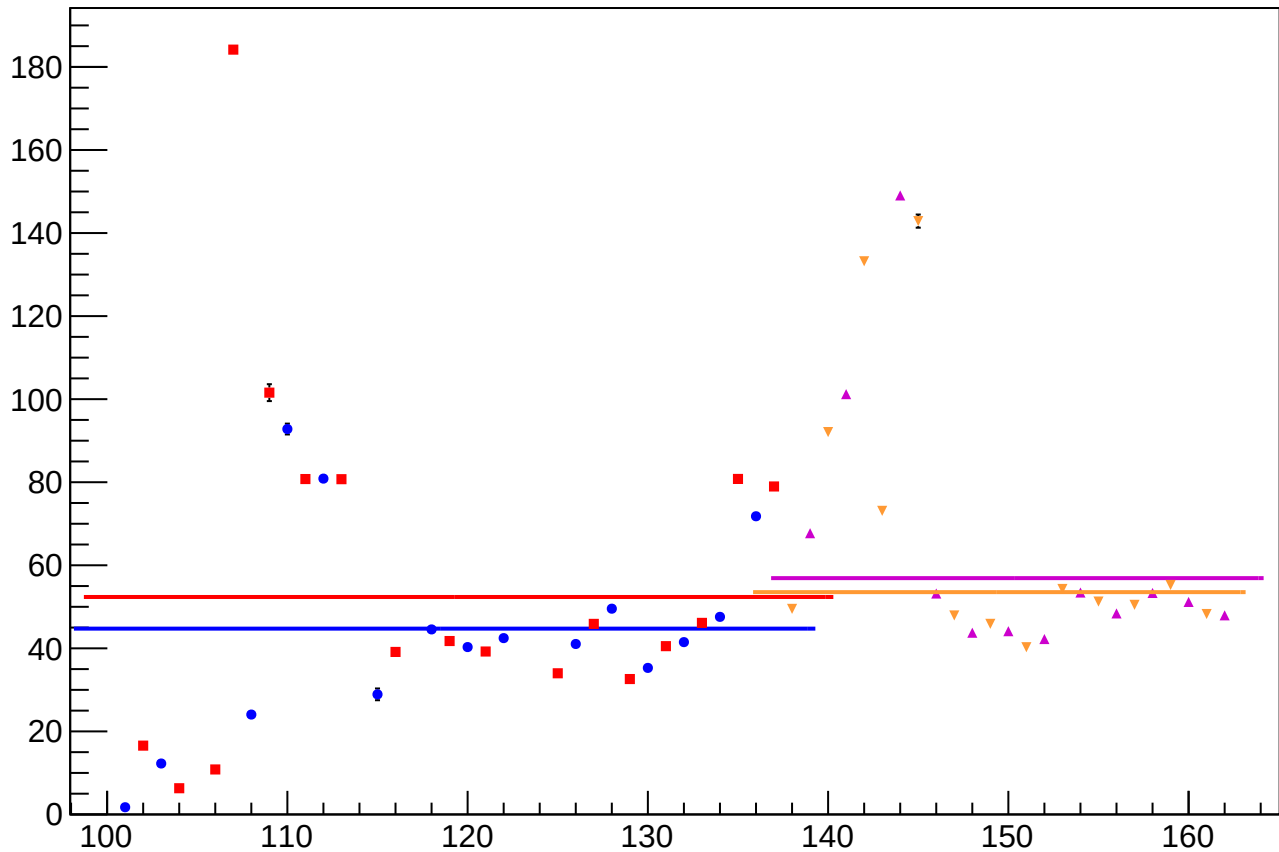
Left In:  $-121.236 \pm 0.074$   $\chi^2/\text{NDF}$ : 44720.3/11

+ sign  $-104.128 \pm 0.053$   $\chi^2/\text{NDF}$ : 161066.7/27

All:  $-105.290 \pm 0.040$   $\chi^2/\text{NDF}$ : 352667.3/56

- sign  $-106.746 \pm 0.059$   $\chi^2/\text{NDF}$ : 190520.6/28

# dit\_usl\_4eX\_slope vs Slug



Right In: 44.745 $\pm$ 0.061  $\chi^2$ /NDF: 84697.9/14

Left Out: 53.533 $\pm$ 0.066  $\chi^2$ /NDF: 42139.0/12

Right Out: 52.367 $\pm$ 0.113  $\chi^2$ /NDF: 69285.2/16

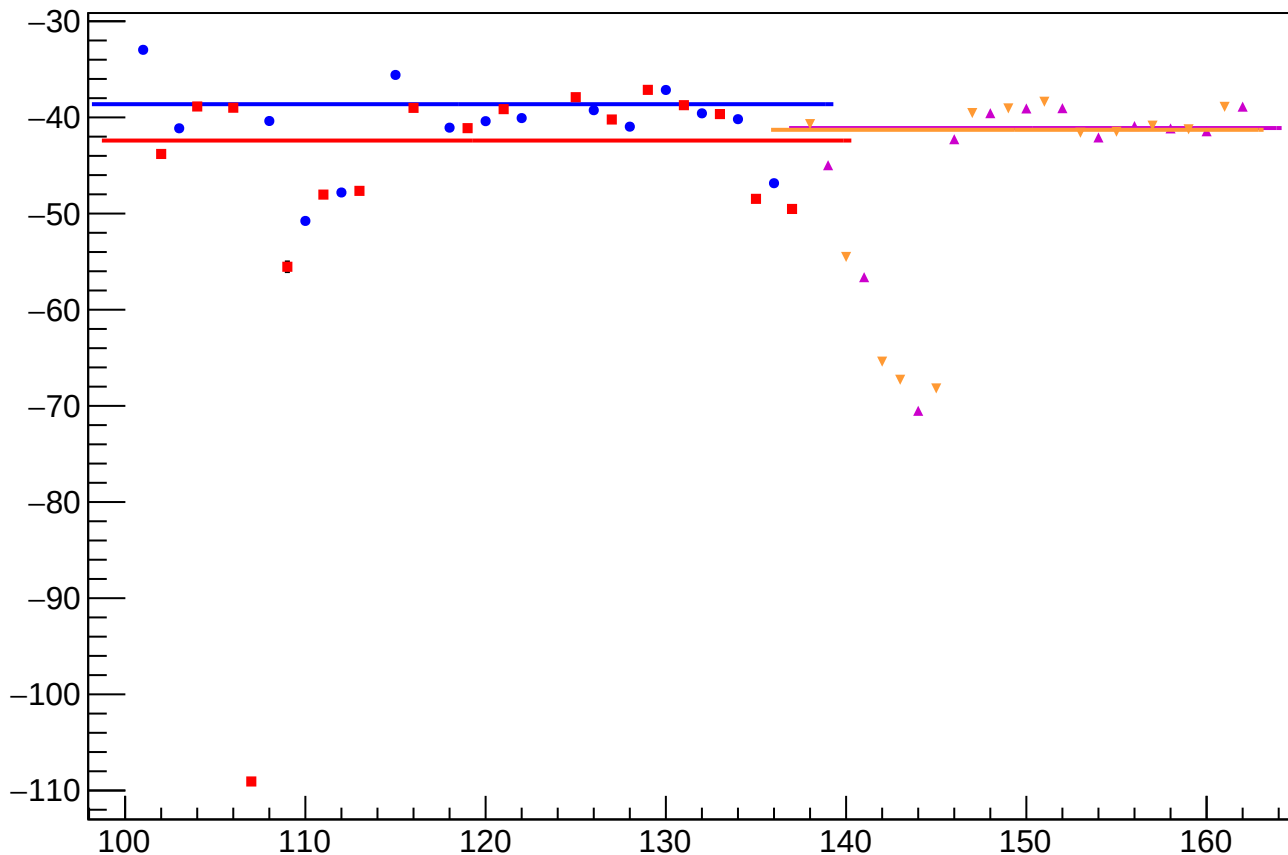
Left In: 56.905 $\pm$ 0.064  $\chi^2$ /NDF: 108949.8/11

+ sign 48.776 $\pm$ 0.045  $\chi^2$ /NDF: 136494.0/27

All: 51.521 $\pm$ 0.035  $\chi^2$ /NDF: 325661.1/56

- sign 55.797 $\pm$ 0.056  $\chi^2$ /NDF: 179463.6/28

# dit\_usl\_11X12X\_slope vs Slug



Right In: -38.625 $\pm$ 0.008  $\chi^2$ /NDF: 240108.7/14

Left Out: -41.290 $\pm$ 0.009  $\chi^2$ /NDF:188252.4/12

Right Out: -42.406 $\pm$ 0.021  $\chi^2$ /NDF: 269138.5/16

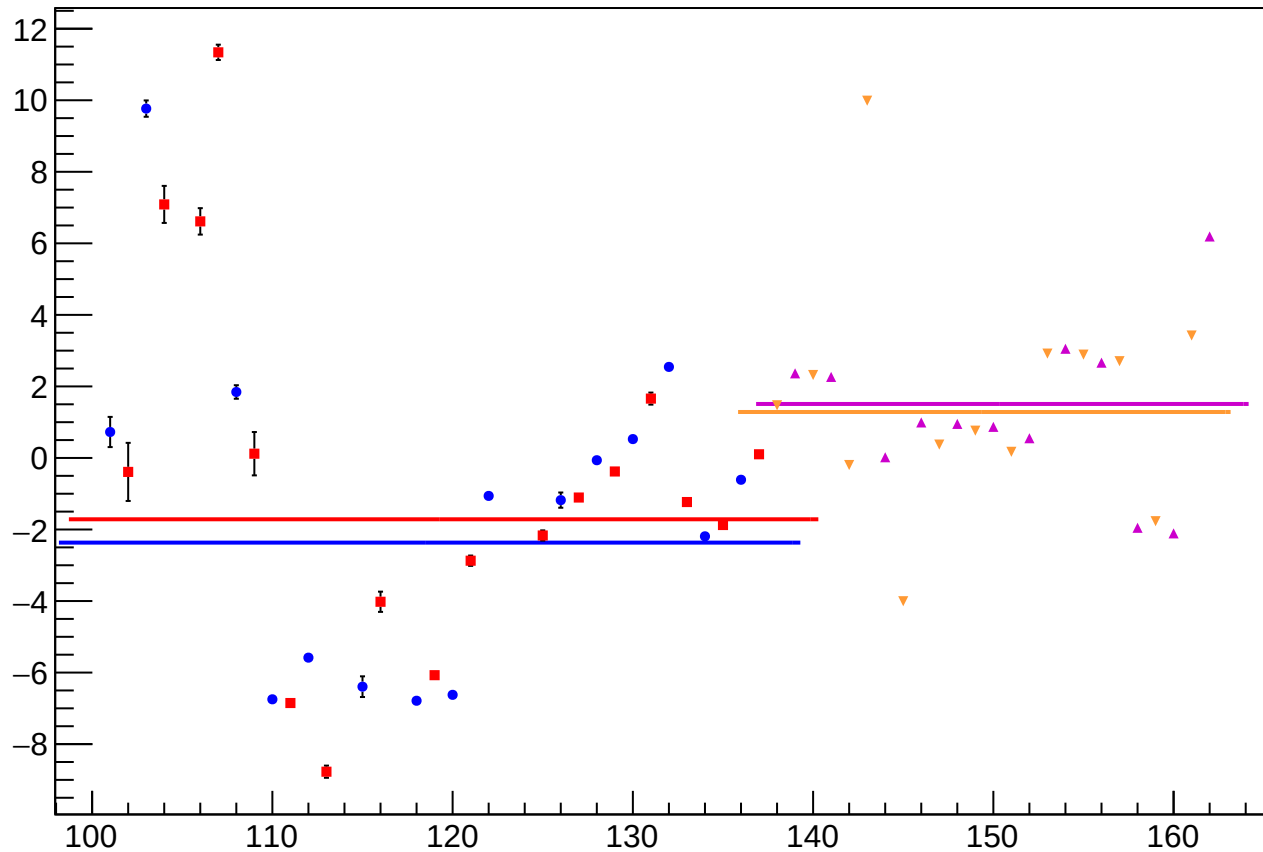
Left In: -41.107 $\pm$ 0.010  $\chi^2$ /NDF:149103.4/11

+ sign -39.821 $\pm$ 0.006  $\chi^2$ /NDF: 474960.4/27

All: -40.307 $\pm$ 0.005  $\chi^2$ /NDF: 915829.1/56

- sign -41.335 $\pm$ 0.009  $\chi^2$ /NDF: 421315.2/28

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.367 \pm 0.014$   $\chi^2/\text{NDF}$ : 28797.3/14

Left Out:  $1.285 \pm 0.010$   $\chi^2/\text{NDF}$ : 38926.0/12

Right Out:  $-1.715 \pm 0.027$   $\chi^2/\text{NDF}$ : 12719.3/16

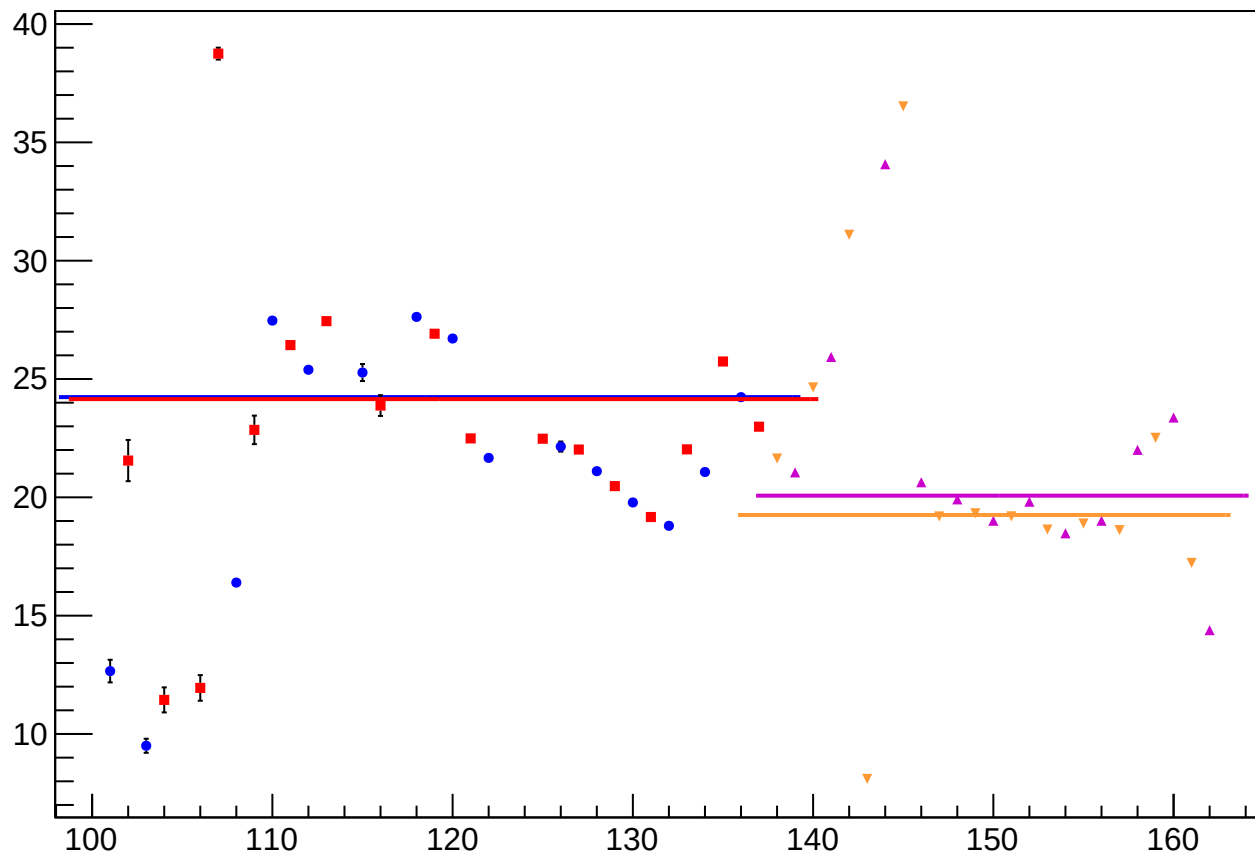
Left In:  $1.509 \pm 0.009$   $\chi^2/\text{NDF}$ : 73076.2/11

+ sign  $0.047 \pm 0.008$   $\chi^2/\text{NDF}$ : 112234.4/27

All:  $0.635 \pm 0.006$   $\chi^2/\text{NDF}$ : 221235.0/56

- sign  $1.216 \pm 0.008$   $\chi^2/\text{NDF}$ : 98766.3/28

# dit\_usl\_4eY\_slope vs Slug



Right In: 24.235 $\pm$ 0.022  $\chi^2$ /NDF: 21896.9/14

Left Out: 19.254 $\pm$ 0.010  $\chi^2$ /NDF: 48358.7/12

Right Out: 24.150 $\pm$ 0.024  $\chi^2$ /NDF: 13222.6/16

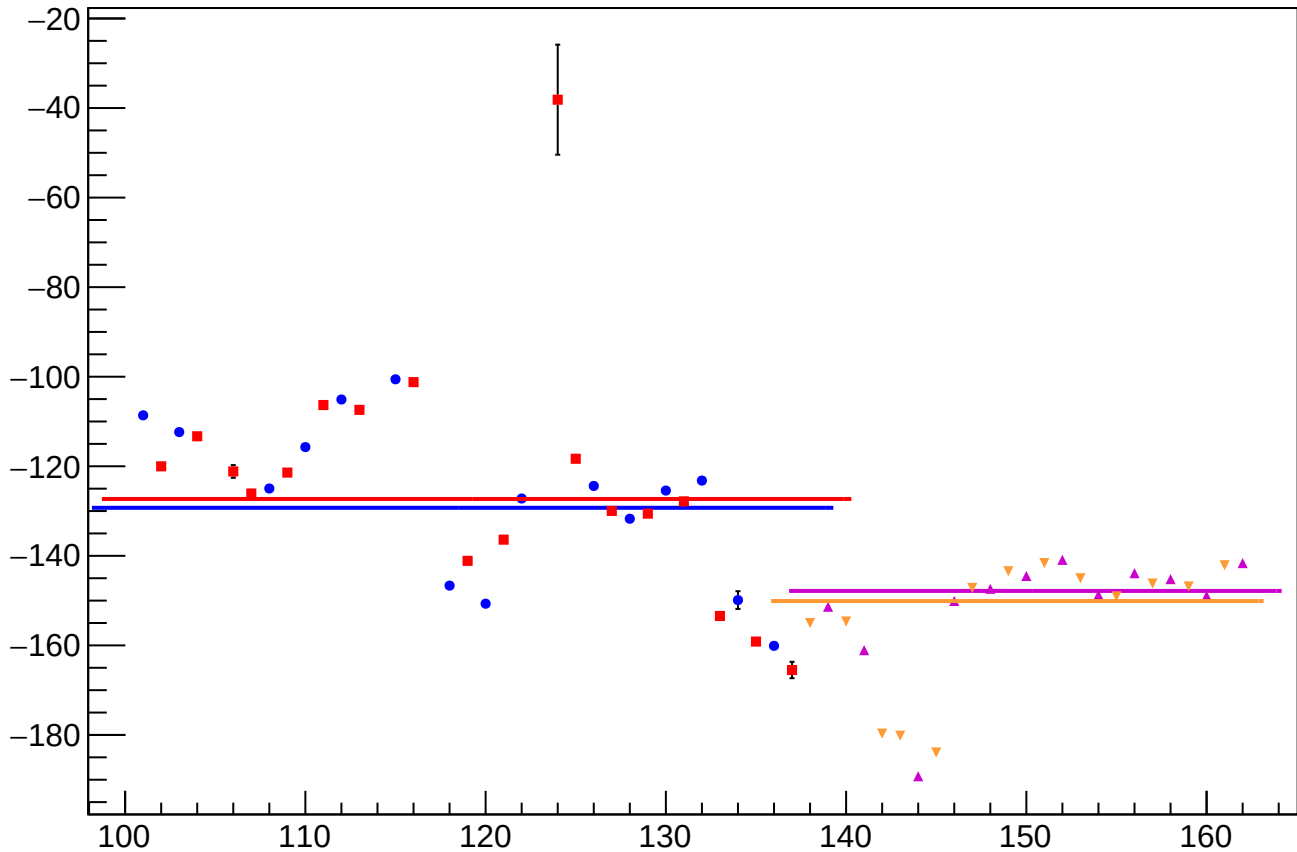
Left In: 20.071 $\pm$ 0.009  $\chi^2$ /NDF: 83197.0/11

+ sign 20.135 $\pm$ 0.009  $\chi^2$ /NDF: 112365.0/27

All: 20.356 $\pm$ 0.006  $\chi^2$ /NDF: 234681.4/56

- sign 20.526 $\pm$ 0.008  $\chi^2$ /NDF: 121311.2/28

# dit\_usr\_4aX\_slope vs Slug



Right In:  $-129.272 \pm 0.088$   $\chi^2/\text{NDF}$ : 35109.7/14

Left Out:  $-150.092 \pm 0.068$   $\chi^2/\text{NDF}$ : 27700.4/12

Right Out:  $-127.303 \pm 0.084$   $\chi^2/\text{NDF}$ : 29597.3/17

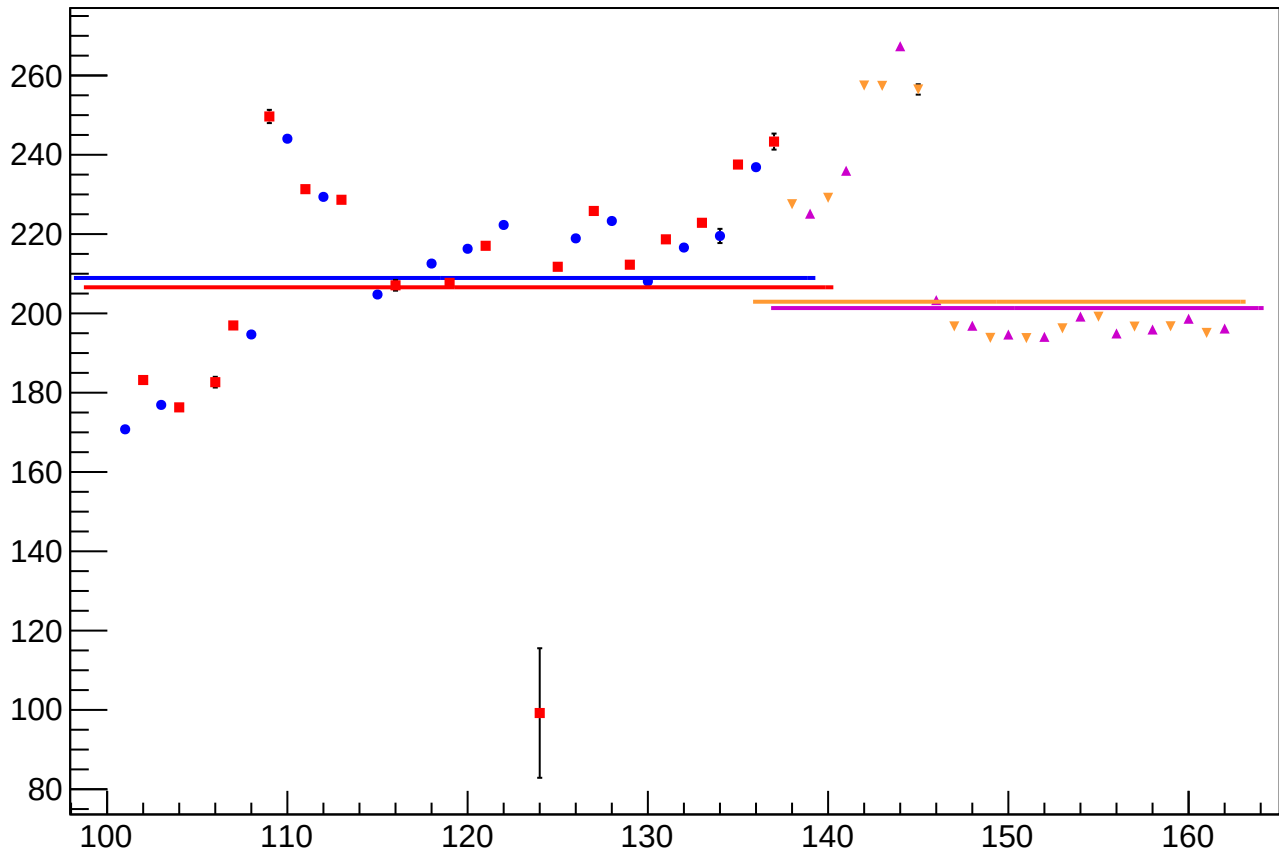
Left In:  $-147.837 \pm 0.059$   $\chi^2/\text{NDF}$ : 22302.7/11

+ sign  $-142.310 \pm 0.054$   $\chi^2/\text{NDF}$ : 98042.6/27

All:  $-141.627 \pm 0.036$   $\chi^2/\text{NDF}$ : 190004.4/57

- sign  $-141.072 \pm 0.048$   $\chi^2/\text{NDF}$ : 91668.3/29

# dit\_usr\_4eX\_slope vs Slug



Right In:  $208.934 \pm 0.089$   $\chi^2/\text{NDF}$ : 44684.8/14

Left Out:  $202.943 \pm 0.055$   $\chi^2/\text{NDF}$ : 102931.3/12

Right Out:  $206.581 \pm 0.083$   $\chi^2/\text{NDF}$ : 48210.8/17

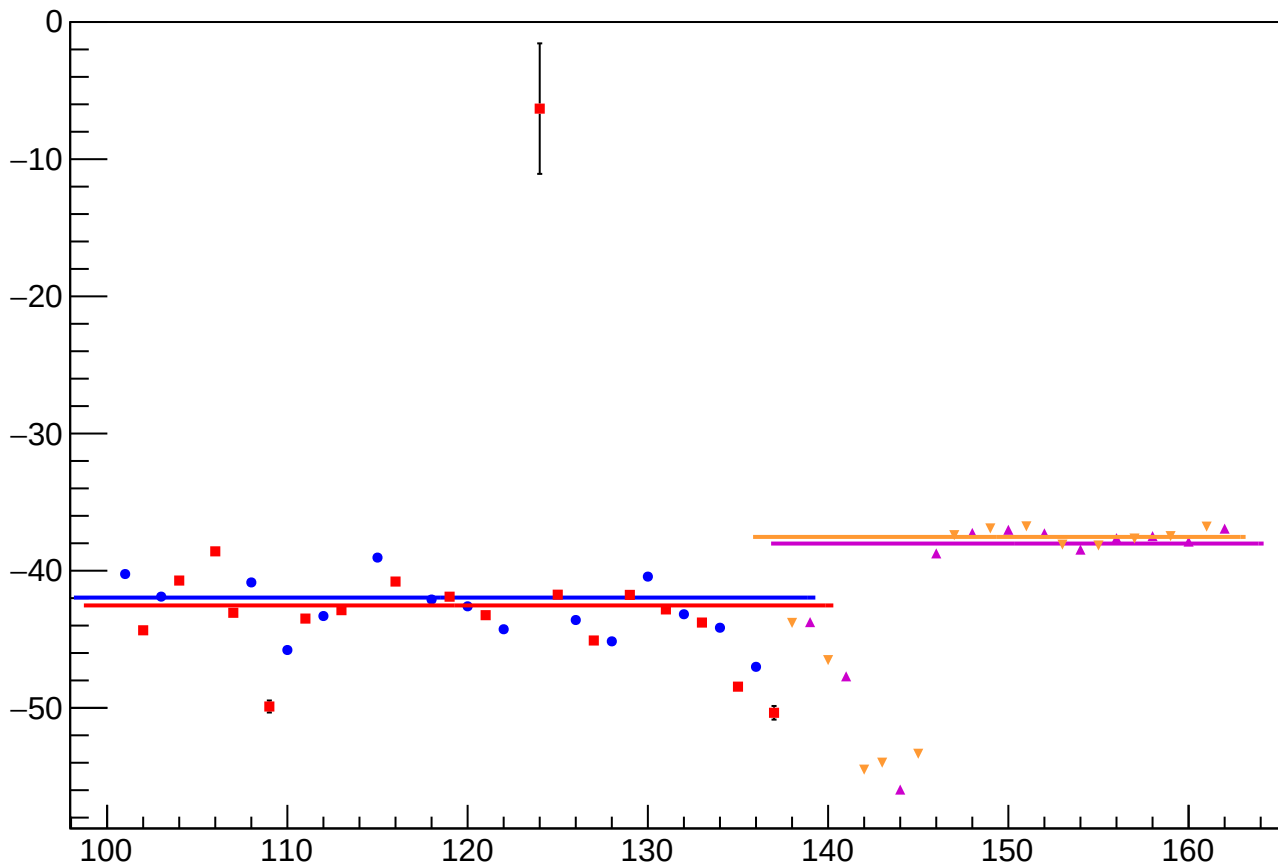
Left In:  $201.342 \pm 0.051$   $\chi^2/\text{NDF}$ : 76146.0/11

+ sign  $204.598 \pm 0.047$   $\chi^2/\text{NDF}$ : 150880.4/27

All:  $203.612 \pm 0.032$   $\chi^2/\text{NDF}$ : 278945.6/57

- sign  $202.767 \pm 0.043$   $\chi^2/\text{NDF}$ : 127244.1/29

# dit\_usr\_11X12X\_slope vs Slug



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.537 \pm 0.005$   $\chi^2/\text{NDF}$ : 220246.9/12

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

Left In:  $-38.021 \pm 0.005$   $\chi^2/\text{NDF}$ : 132460.6/11

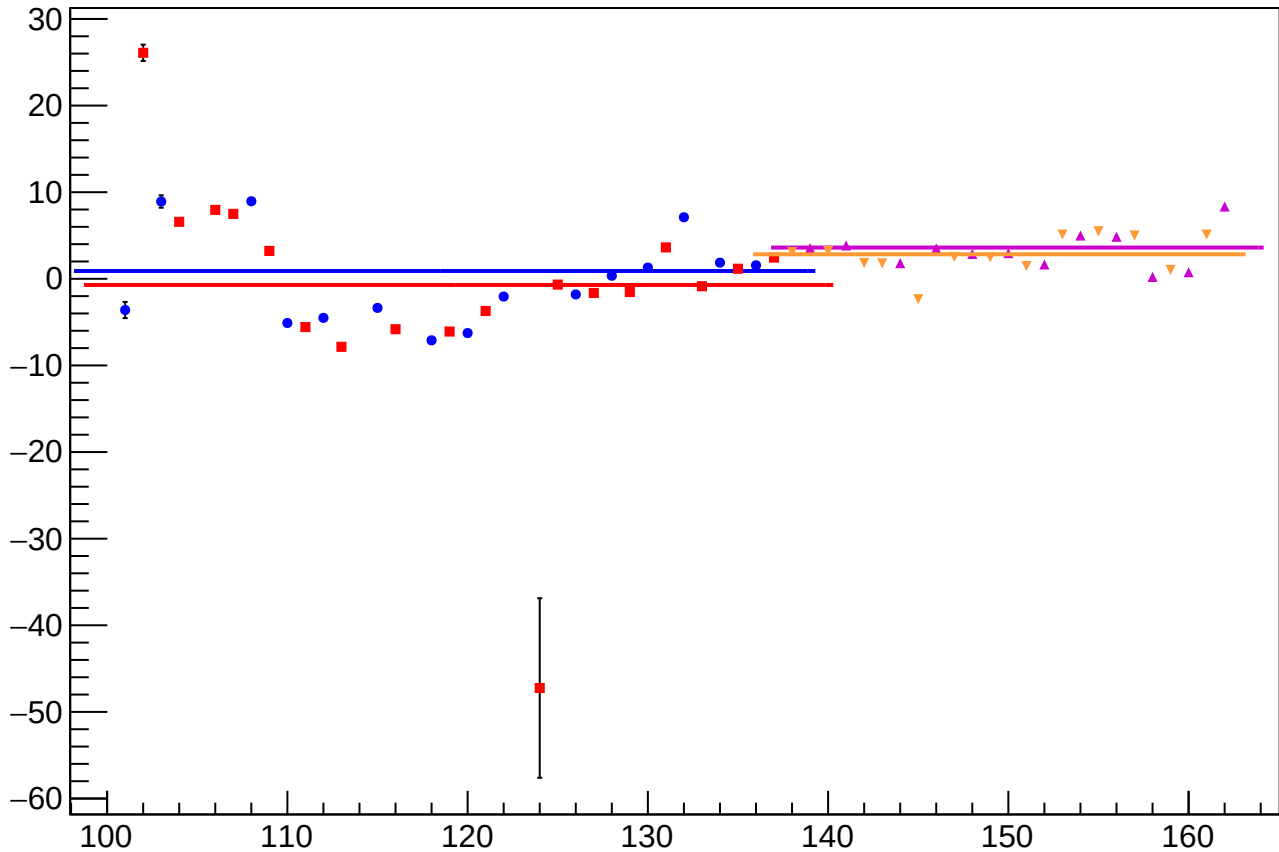
+ sign  $-37.903 \pm 0.004$   $\chi^2/\text{NDF}$ : 318135.3/27

All:  $-38.074 \pm 0.003$   $\chi^2/\text{NDF}$ : 504878.4/57

- sign  $-38.297 \pm 0.005$   $\chi^2/\text{NDF}$ : 183385.8/29



# dit\_usr\_4aY\_slope vs Slug



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}$ : 21140.4/14

Left Out:  $2.831 \pm 0.009$   $\chi^2/\text{NDF}$ : 35844.9/12

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}$ : 30723.8/17

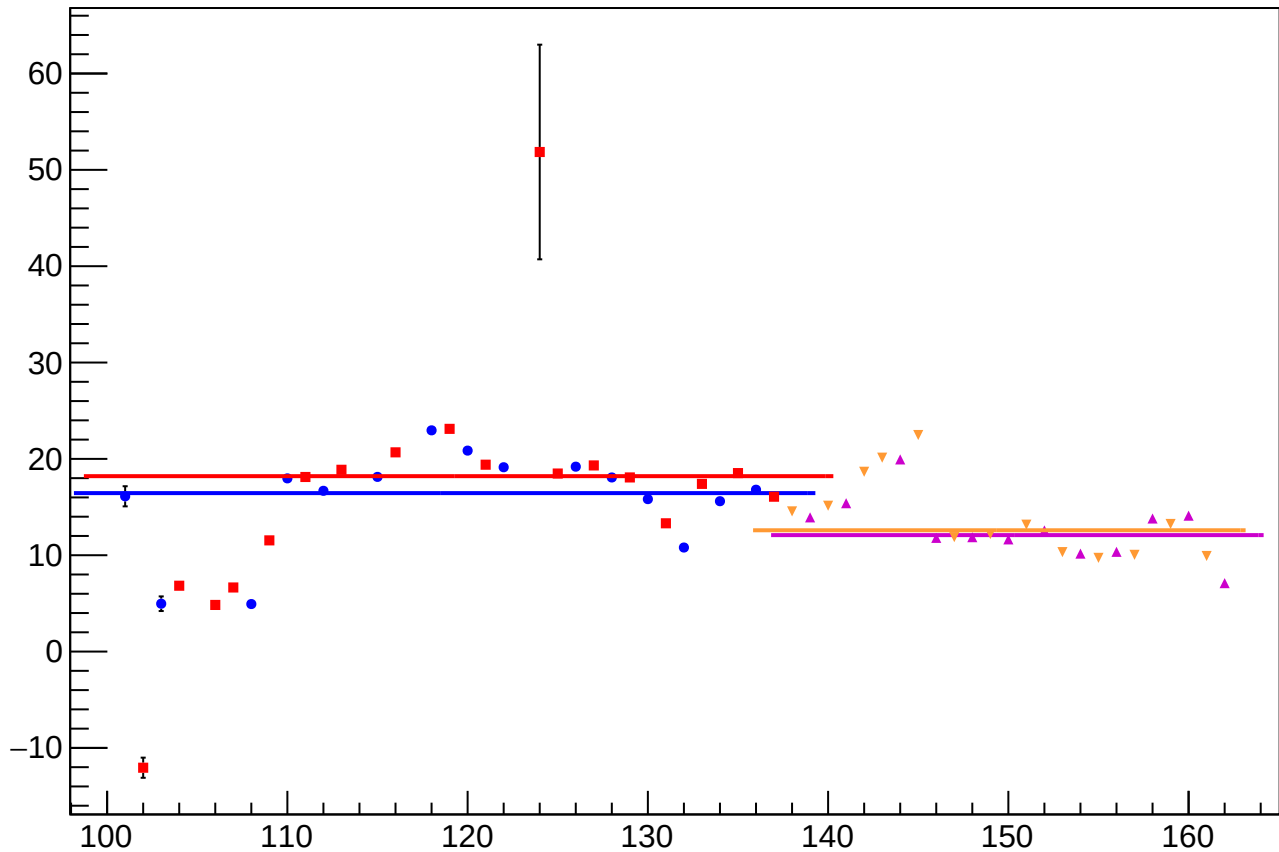
Left In:  $3.607 \pm 0.009$   $\chi^2/\text{NDF}$ : 60738.0/11

+ sign  $2.487 \pm 0.008$   $\chi^2/\text{NDF}$ : 64585.5/27

All:  $2.819 \pm 0.006$   $\chi^2/\text{NDF}$ : 187038.9/57

- sign  $3.124 \pm 0.008$   $\chi^2/\text{NDF}$ : 119506.5/29

# dit\_usr\_4eY\_slope vs Slug



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 12.590 $\pm$ 0.011  $\chi^2$ /NDF: 58611.0/12

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

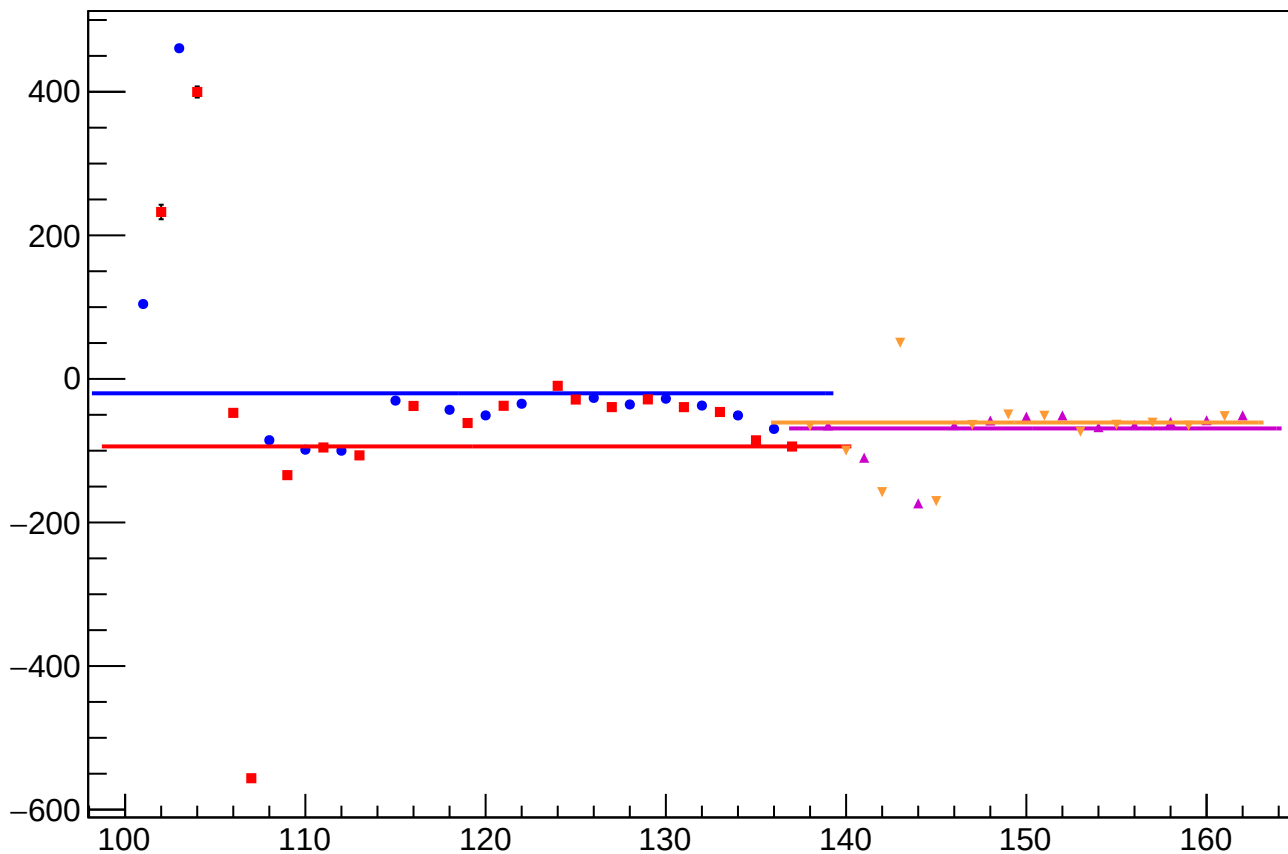
Left In: 12.087 $\pm$ 0.011  $\chi^2$ /NDF: 43469.2/11

+ sign 13.223 $\pm$ 0.010  $\chi^2$ /NDF: 93668.8/27

All: 13.305 $\pm$ 0.007  $\chi^2$ /NDF: 235540.4/57

- sign 13.379 $\pm$ 0.009  $\chi^2$ /NDF: 141742.1/29

# dit\_atl1\_4aX\_slope vs Slug



Right In:  $-20.059 \pm 0.153$   $\chi^2/\text{NDF}: 441461.8/14$

Left Out:  $-60.733 \pm 0.131$   $\chi^2/\text{NDF}: 45252.7/12$

Right Out:  $-94.050 \pm 0.012$   $\chi^2/\text{NDF}: 87487.7/17$

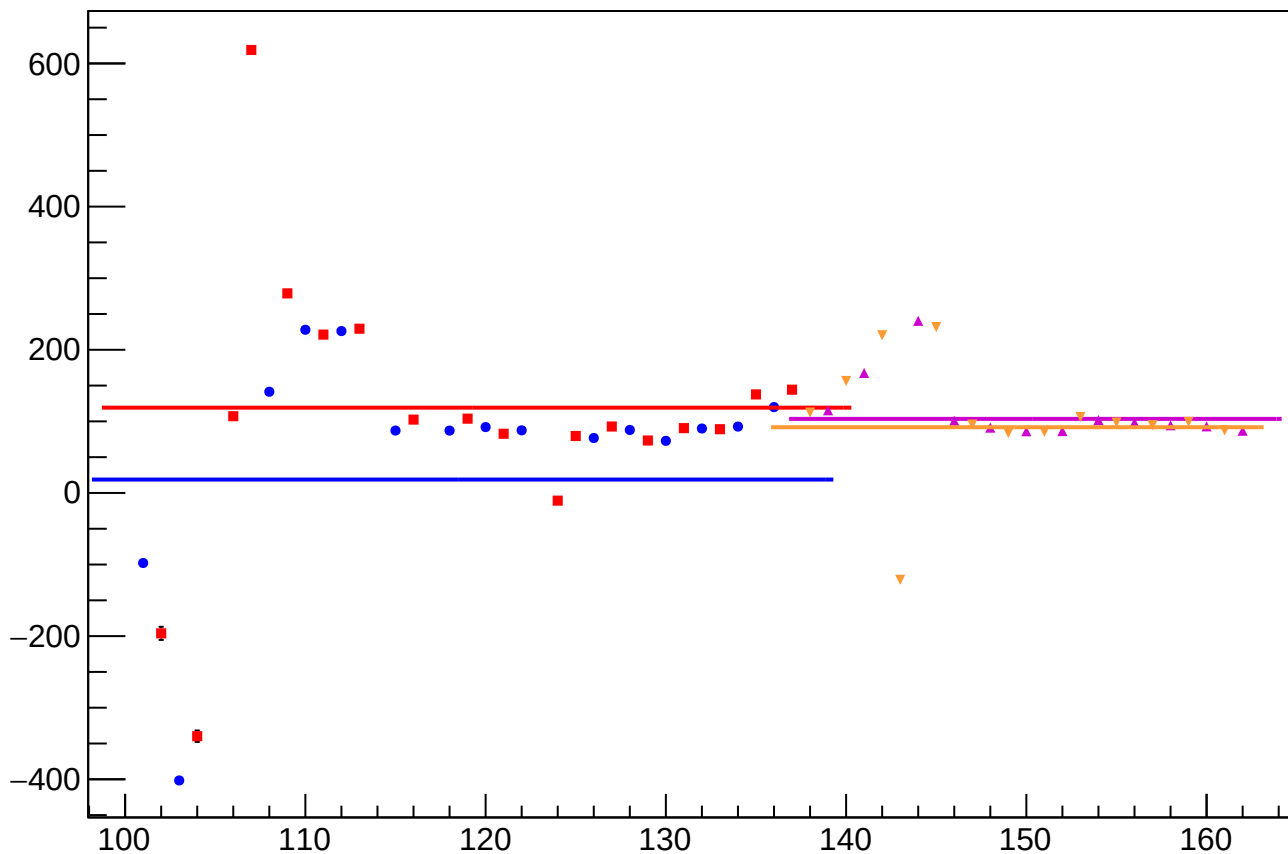
Left In:  $-68.992 \pm 0.147$   $\chi^2/\text{NDF}: 37368.2/11$

+ sign  $-43.547 \pm 0.100$   $\chi^2/\text{NDF}: 527447.8/27$

All:  $-93.104 \pm 0.012$   $\chi^2/\text{NDF}: 932944.8/57$

- sign  $-93.871 \pm 0.012$   $\chi^2/\text{NDF}: 153842.5/29$

# dit\_atl1\_4eX\_slope vs Slug



Right In: 18.731+/-0.152  $\chi^2/\text{NDF}$ : 1101803.8/14

Left Out: 91.803+/-0.111  $\chi^2/\text{NDF}$ : 167342.8/12

Right Out: 119.167+/-0.199  $\chi^2/\text{NDF}$ : 87450.0/17

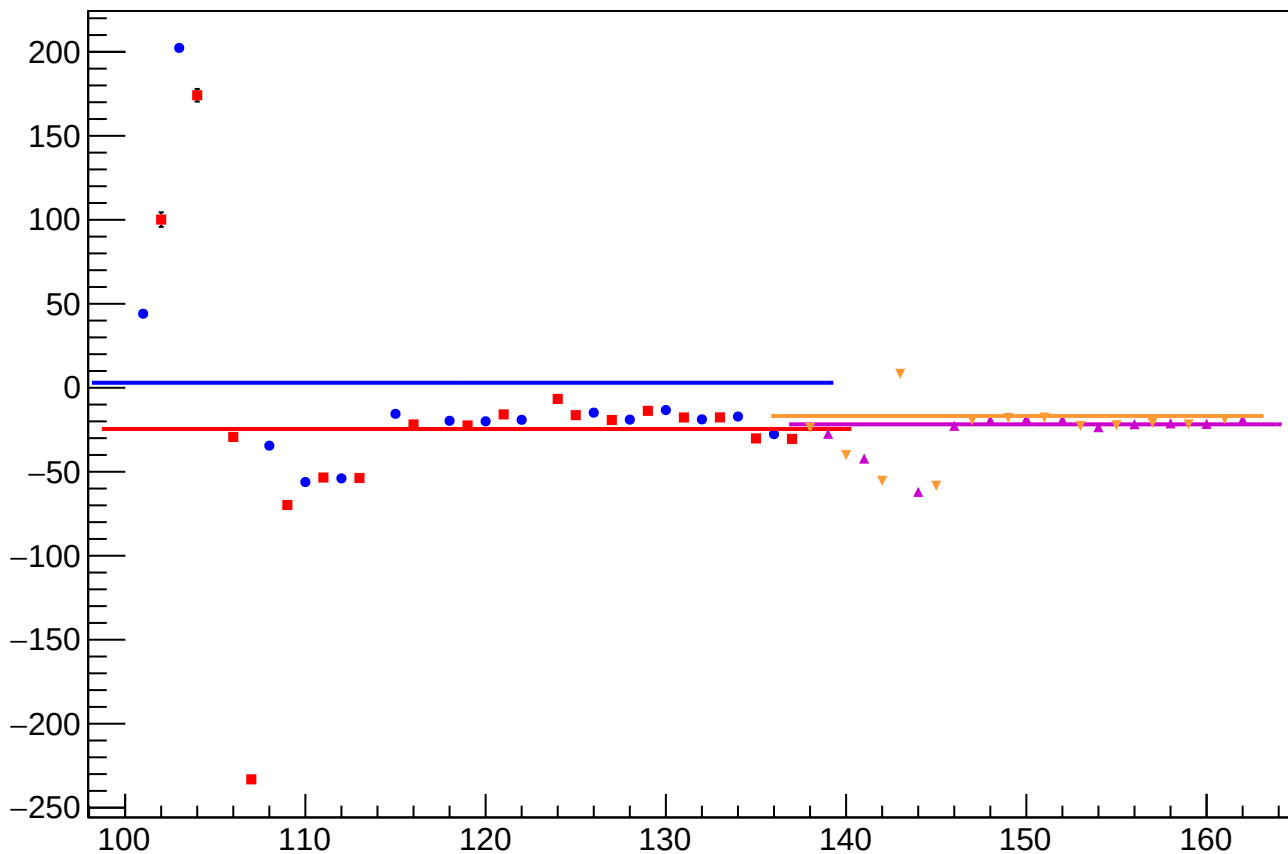
Left In: 103.486+/-0.126  $\chi^2/\text{NDF}$ : 58533.1/11

+ sign 66.469+/-0.090  $\chi^2/\text{NDF}$ : 1419977.3/27

All: 83.644+/-0.069  $\chi^2/\text{NDF}$ : 1659283.0/57

- sign 107.972+/-0.107  $\chi^2/\text{NDF}$ : 150404.9/29

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}$ : 3496745.8/14

Left Out:  $-16.771 \pm 0.015$   $\chi^2/\text{NDF}$ : 568625.9/12

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}$ : 176488.8/17

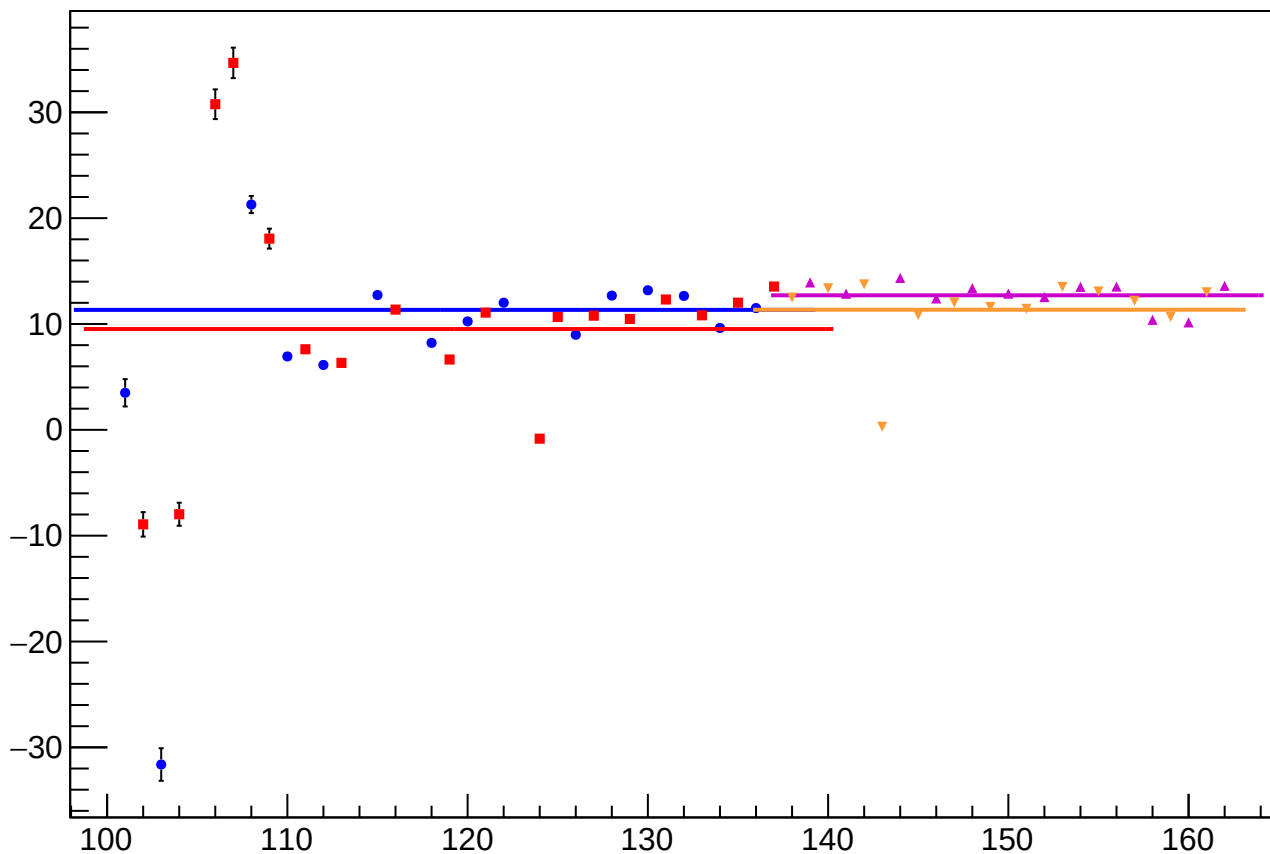
Left In:  $-21.772 \pm 0.018$   $\chi^2/\text{NDF}$ : 121765.5/11

+ sign  $-11.959 \pm 0.013$   $\chi^2/\text{NDF}$ : 4474082.3/27

All:  $-16.009 \pm 0.010$   $\chi^2/\text{NDF}$ : 5010462.1/57

- sign  $-22.160 \pm 0.016$   $\chi^2/\text{NDF}$ : 301696.6/29

# dit\_atl1\_4aY\_slope vs Slug



Right In:  $11.334 \pm 0.037$   $\chi^2/\text{NDF}$ : 2406.0/14

Left Out:  $11.344 \pm 0.020$   $\chi^2/\text{NDF}$ : 28354.2/12

Right Out:  $9.524 \pm 0.048$   $\chi^2/\text{NDF}$ : 4066.9/17

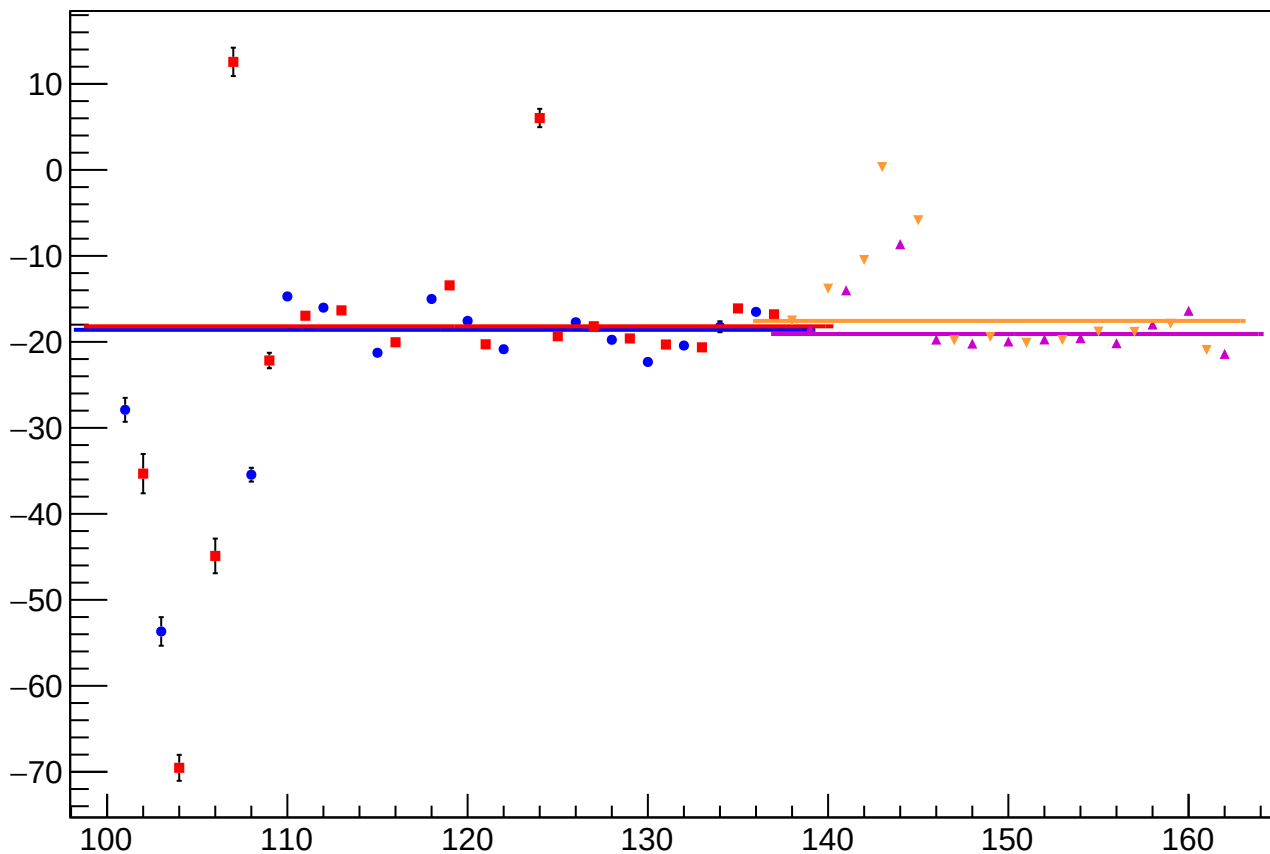
Left In:  $12.710 \pm 0.017$   $\chi^2/\text{NDF}$ : 4791.9/11

+ sign  $11.342 \pm 0.018$   $\chi^2/\text{NDF}$ : 30760.3/27

All:  $11.899 \pm 0.012$   $\chi^2/\text{NDF}$ : 45320.6/57

- sign  $12.354 \pm 0.016$   $\chi^2/\text{NDF}$ : 12770.2/29

# dit\_atl1\_4eY\_slope vs Slug



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14

Left Out:  $-17.560 \pm 0.022$   $\chi^2/\text{NDF}$ : 45541.3/12

Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17

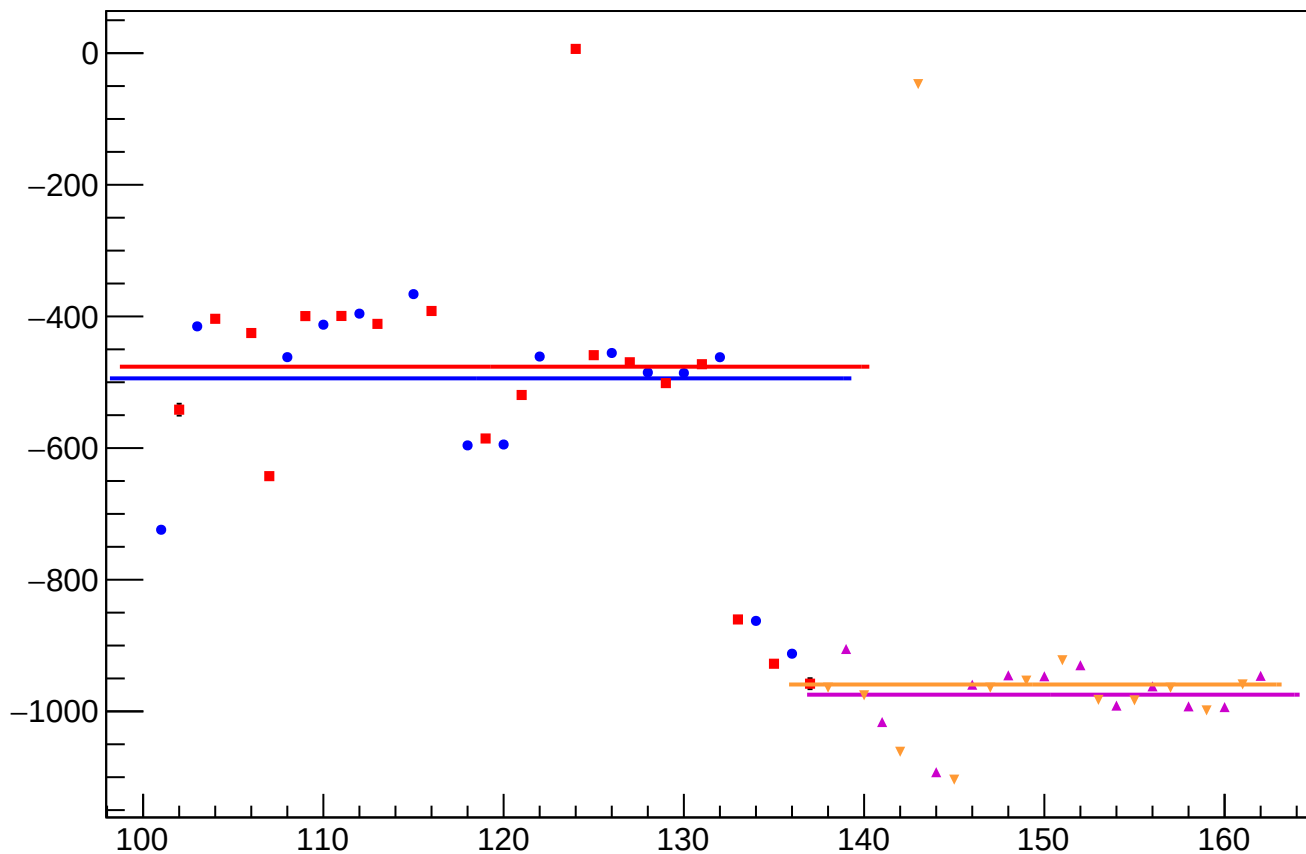
Left In:  $-19.085 \pm 0.020$   $\chi^2/\text{NDF}$ : 8507.3/11

+ sign  $-17.828 \pm 0.019$   $\chi^2/\text{NDF}$ : 52307.2/27

All:  $-18.405 \pm 0.013$   $\chi^2/\text{NDF}$ : 67812.4/57

- sign  $-18.960 \pm 0.019$   $\chi^2/\text{NDF}$ : 13670.8/29

# dit\_atl2\_4aX\_slope vs Slug



Right In:  $-494.081 \pm 0.232$   $\chi^2/\text{NDF}$ : 325996.5/14

Left Out:  $-959.174 \pm 0.223$   $\chi^2/\text{NDF}$ : 312167.8/12

Right Out:  $-476.348 \pm 0.185$   $\chi^2/\text{NDF}$ : 594116.3/17

Left In:  $-974.647 \pm 0.202$   $\chi^2/\text{NDF}$ : 24462.0/11

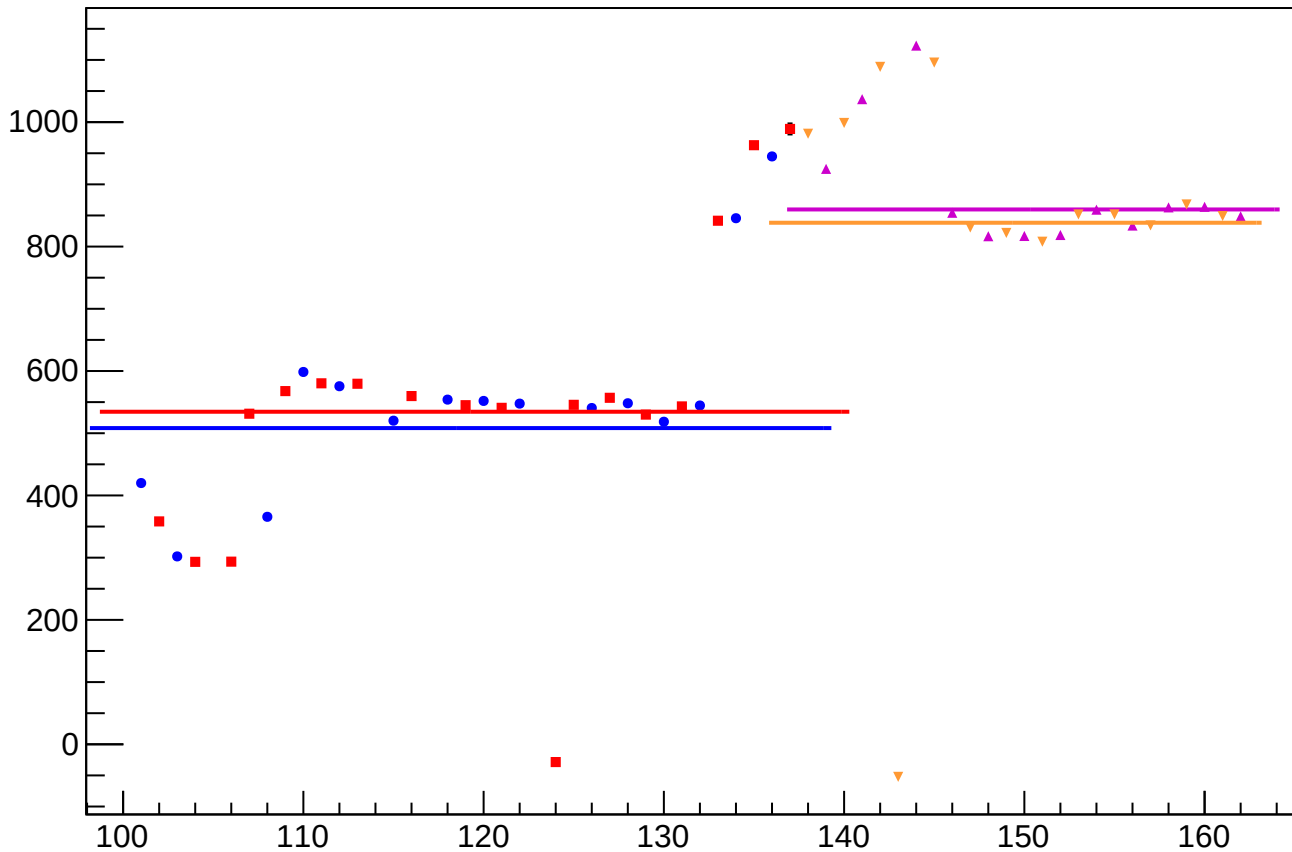
+ sign  $-735.811 \pm 0.161$   $\chi^2/\text{NDF}$ : 2725187.5/27

All:  $-717.305 \pm 0.104$   $\chi^2/\text{NDF}$ : 6676296.3/57

- sign  $-703.990 \pm 0.136$   $\chi^2/\text{NDF}$ : 3928347.2/29



# dit\_atl2\_4eX\_slope vs Slug



Right In:  $508.267 \pm 0.222$   $\chi^2/\text{NDF}$ : 439489.9/14

Left Out:  $838.306 \pm 0.174$   $\chi^2/\text{NDF}$ : 413841.0/12

Right Out:  $534.536 \pm 0.217$   $\chi^2/\text{NDF}$ : 368263.1/17

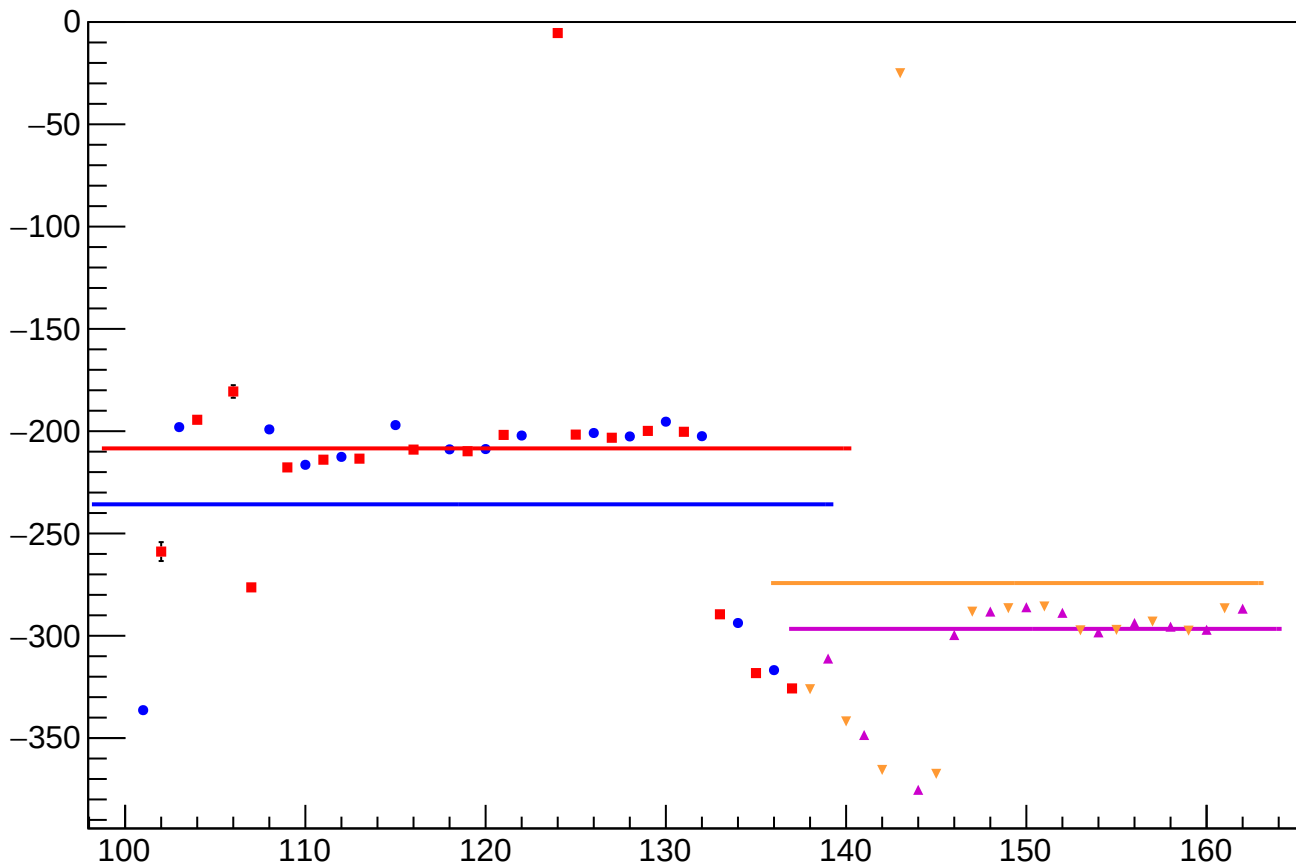
Left In:  $859.662 \pm 0.173$   $\chi^2/\text{NDF}$ : 86625.0/11

+ sign  $712.754 \pm 0.137$   $\chi^2/\text{NDF}$ : 2226799.0/27

All:  $723.013 \pm 0.096$   $\chi^2/\text{NDF}$ : 4061562.6/57

- sign  $733.089 \pm 0.136$   $\chi^2/\text{NDF}$ : 1823603.5/29

# dit\_atl2\_11X12X\_slope vs Slug



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-274.235 \pm 0.028$   $\chi^2/\text{NDF}: 6316437.1/12$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

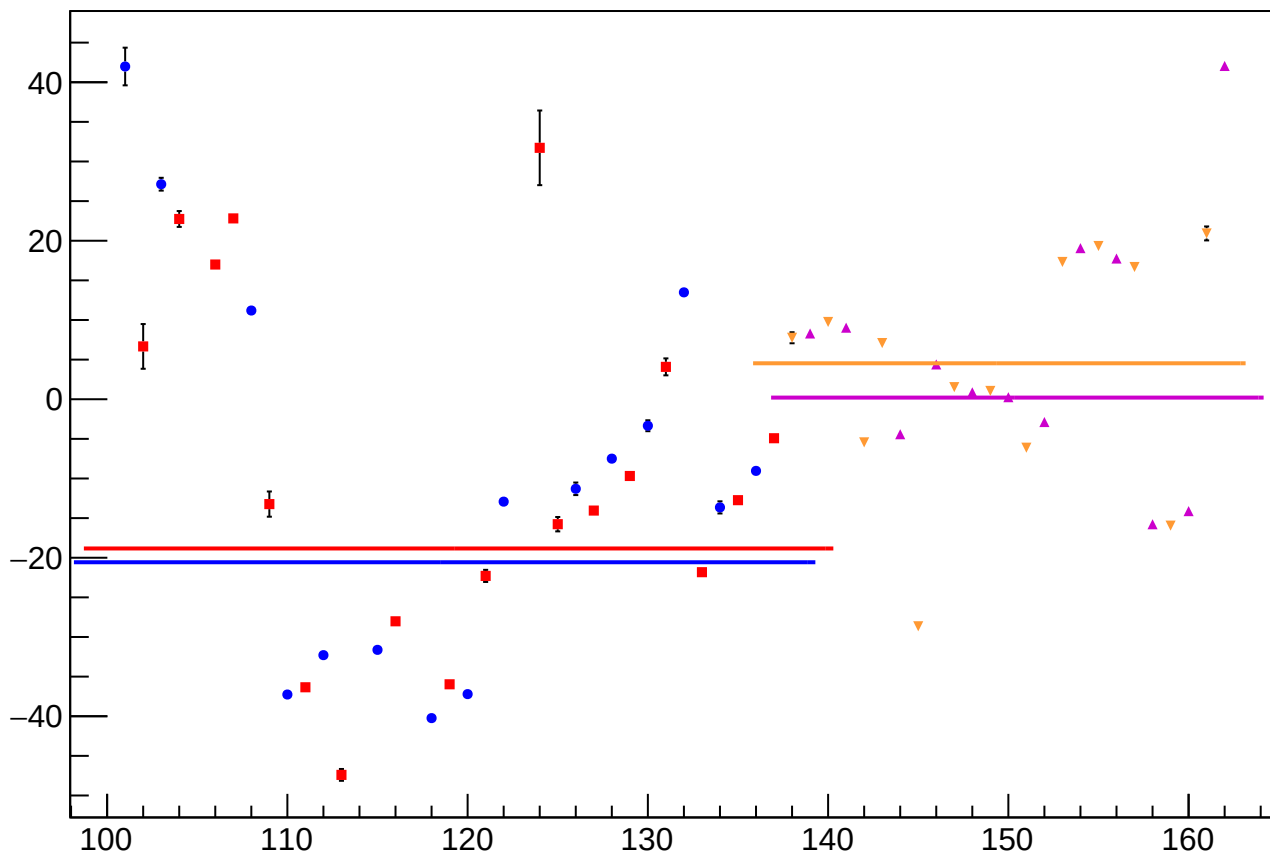
Left In:  $-296.621 \pm 0.028$   $\chi^2/\text{NDF}: 246760.3/11$

+ sign  $-266.319 \pm 0.025$   $\chi^2/\text{NDF}: 7578452.1/27$

All:  $-270.044 \pm 0.017$   $\chi^2/\text{NDF}: 10868184.7/5$

- sign  $-273.453 \pm 0.024$   $\chi^2/\text{NDF}: 3247354.7/29$

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $4.537 \pm 0.032$   $\chi^2/\text{NDF}$ : 156098.4/12

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

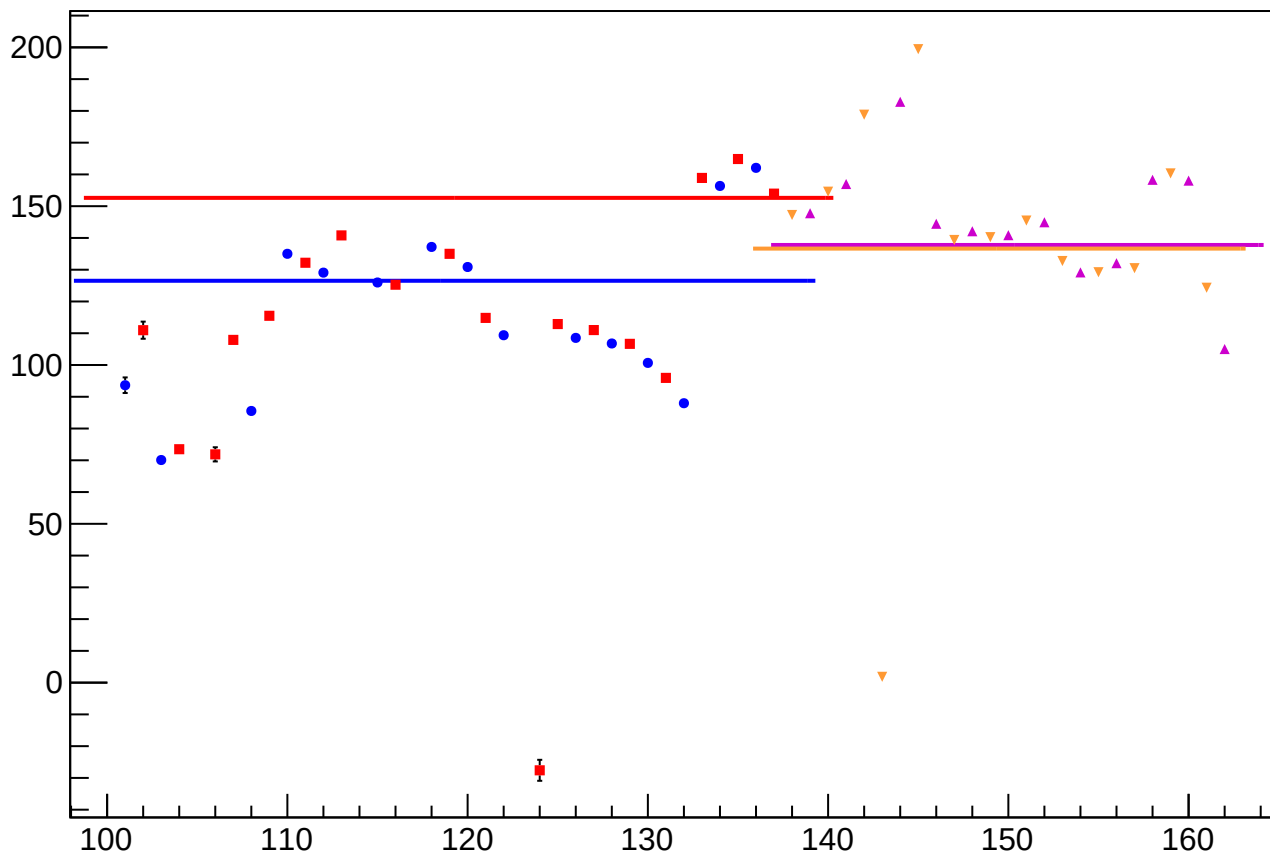
Left In:  $0.208 \pm 0.023$   $\chi^2/\text{NDF}$ : 573841.9/11

+ sign  $0.328 \pm 0.029$   $\chi^2/\text{NDF}$ : 322591.9/27

All:  $-0.269 \pm 0.018$   $\chi^2/\text{NDF}$ : 947665.7/57

- sign  $-0.627 \pm 0.023$   $\chi^2/\text{NDF}$ : 624405.6/29

dit\_atl2\_4eY\_slope vs Slug



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 136.646 $\pm$ 0.042  $\chi^2$ /NDF: 440457.5/12

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

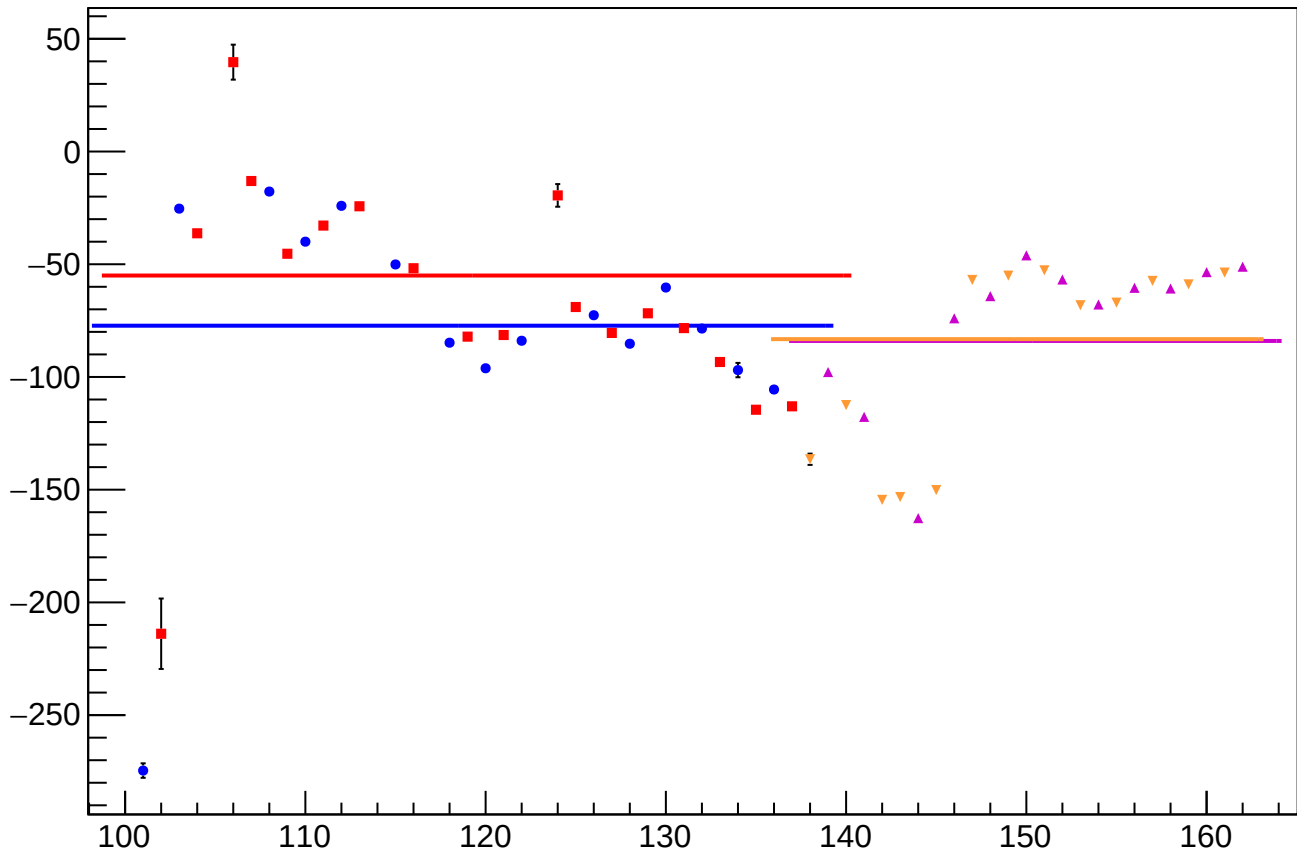
Left In: 137.790 $\pm$ 0.030  $\chi^2$ /NDF: 348357.6/11

+ sign 134.647 $\pm$ 0.037  $\chi^2$ /NDF: 567095.7/27

All: 142.576 $\pm$ 0.019  $\chi^2$ /NDF: 1169069.7/57

- sign 145.195 $\pm$ 0.021  $\chi^2$ /NDF: 541907.7/29

# dit\_atr1\_4aX\_slope vs Slug



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}$ : 30356.0/14

Left Out:  $-83.228 \pm 0.159$   $\chi^2/\text{NDF}$ : 55937.0/12

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}$ : 23629.0/17

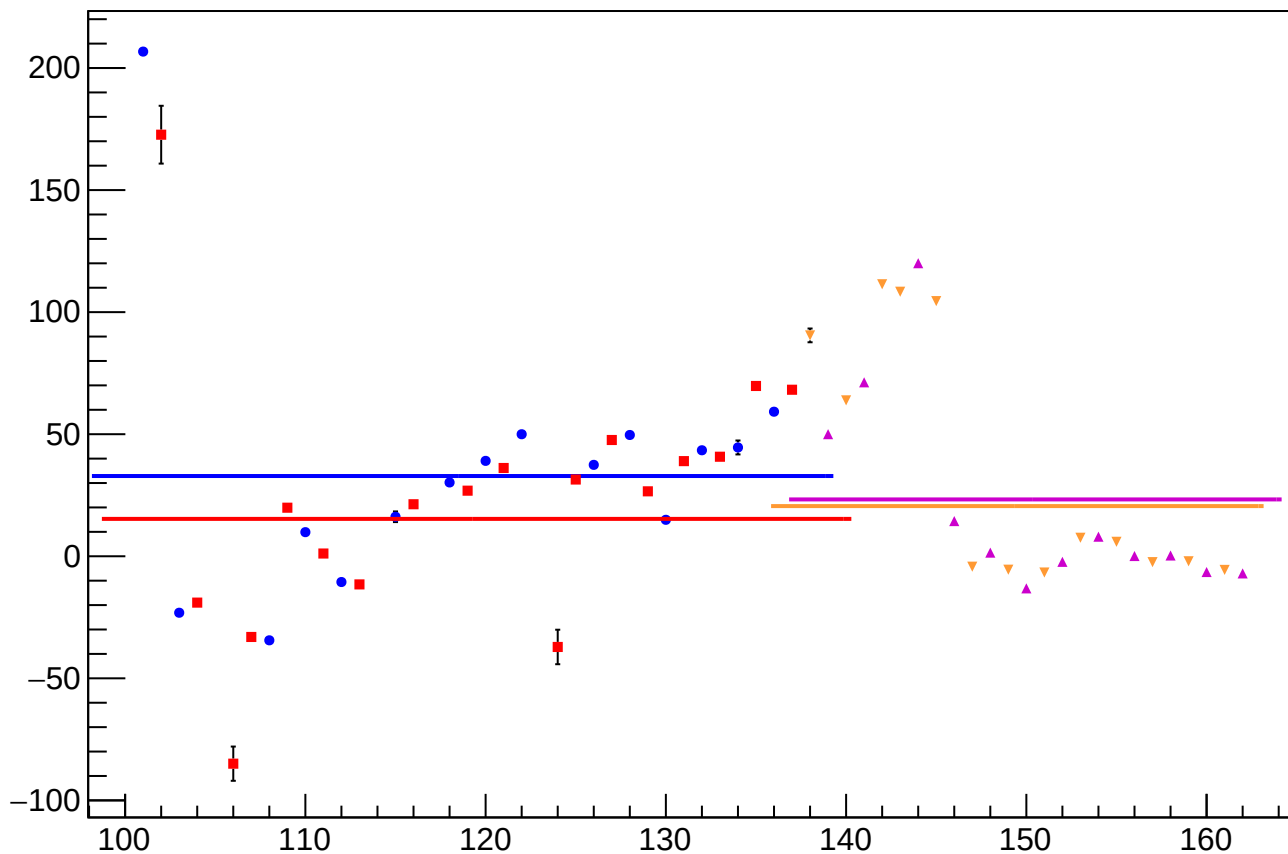
Left In:  $-84.024 \pm 0.154$   $\chi^2/\text{NDF}$ : 57205.3/11

+ sign  $-80.000 \pm 0.108$   $\chi^2/\text{NDF}$ : 87055.3/27

All:  $-76.650 \pm 0.080$   $\chi^2/\text{NDF}$ : 184079.2/57

- sign  $-72.499 \pm 0.120$   $\chi^2/\text{NDF}$ : 94857.9/29

# dit\_atr1\_4eX\_slope vs Slug



Right In:  $32.869 \pm 0.146$   $\chi^2/\text{NDF}$ : 31393.7/14

Left Out:  $20.551 \pm 0.137$   $\chi^2/\text{NDF}$ : 88393.6/12

Right Out:  $15.309 \pm 0.210$   $\chi^2/\text{NDF}$ : 16746.0/17

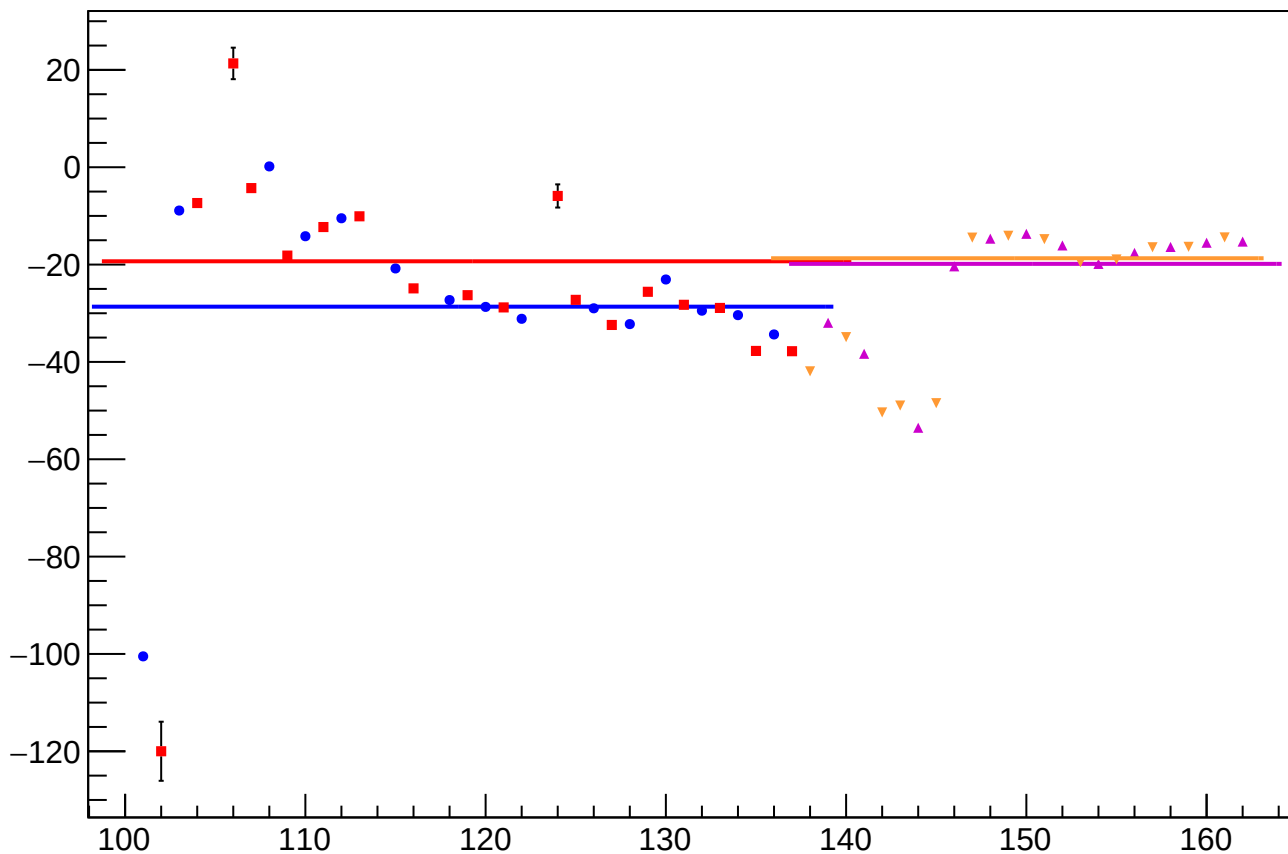
Left In:  $23.284 \pm 0.136$   $\chi^2/\text{NDF}$ : 86342.6/11

+ sign  $26.326 \pm 0.100$   $\chi^2/\text{NDF}$ : 123567.0/27

All:  $23.979 \pm 0.075$   $\chi^2/\text{NDF}$ : 228942.8/57

- sign  $20.921 \pm 0.114$   $\chi^2/\text{NDF}$ : 104106.6/29

# dit\_atr1\_11X12X\_slope vs Slug



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}: 113441.9/14$

Left Out:  $-18.701 \pm 0.017$   $\chi^2/\text{NDF}: 222988.8/12$

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}: 56579.1/17$

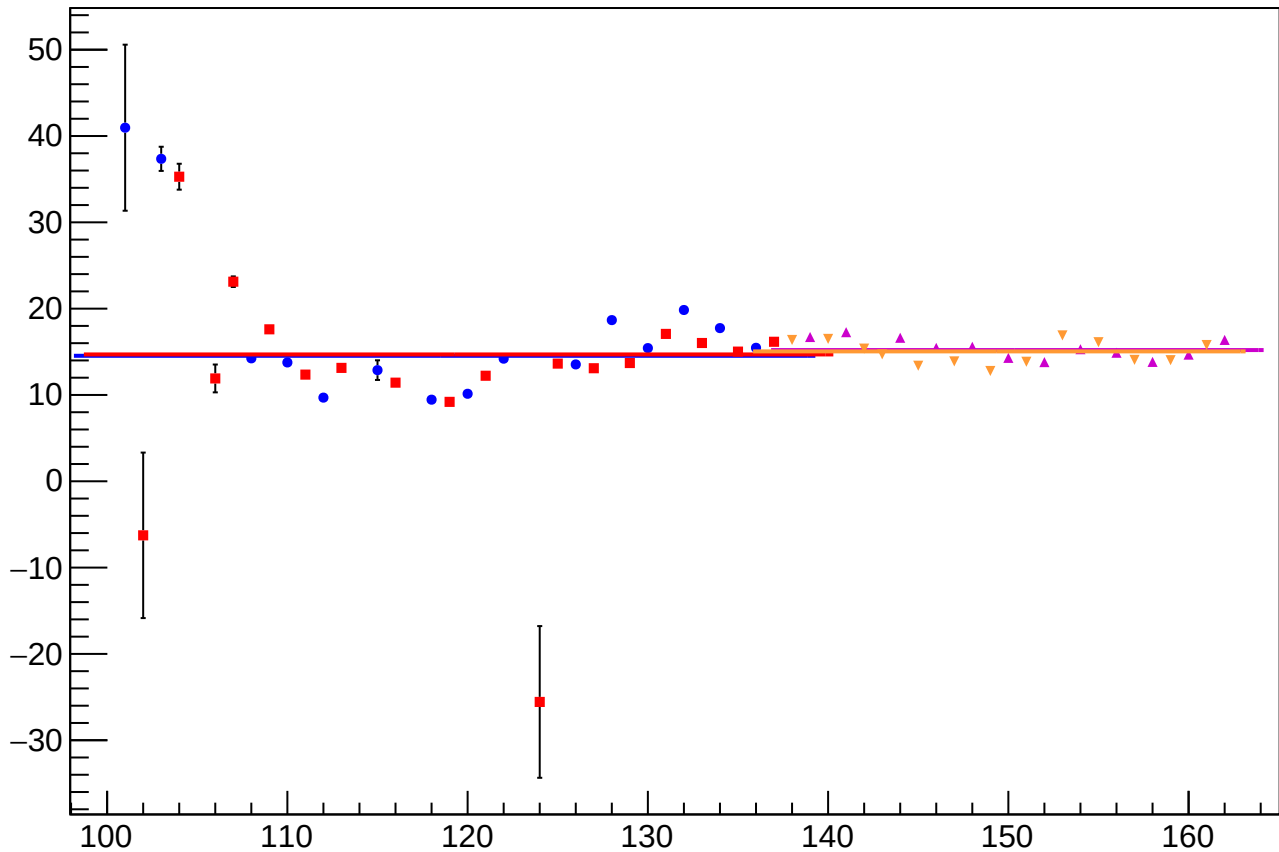
Left In:  $-19.854 \pm 0.019$   $\chi^2/\text{NDF}: 192715.6/11$

+ sign  $-20.755 \pm 0.016$   $\chi^2/\text{NDF}: 403289.1/27$

All:  $-20.294 \pm 0.011$   $\chi^2/\text{NDF}: 654628.2/57$

- sign  $-19.757 \pm 0.017$   $\chi^2/\text{NDF}: 249442.4/29$

# dit\_atr1\_4aY\_slope vs Slug



Right In: 14.539 $\pm$ 0.030  $\chi^2$ /NDF: 12071.8/14

Left Out: 15.049 $\pm$ 0.018  $\chi^2$ /NDF: 5017.2/12

Right Out: 14.695 $\pm$ 0.044  $\chi^2$ /NDF: 1633.0/17

Left In: 15.202 $\pm$ 0.017  $\chi^2$ /NDF: 3956.2/11

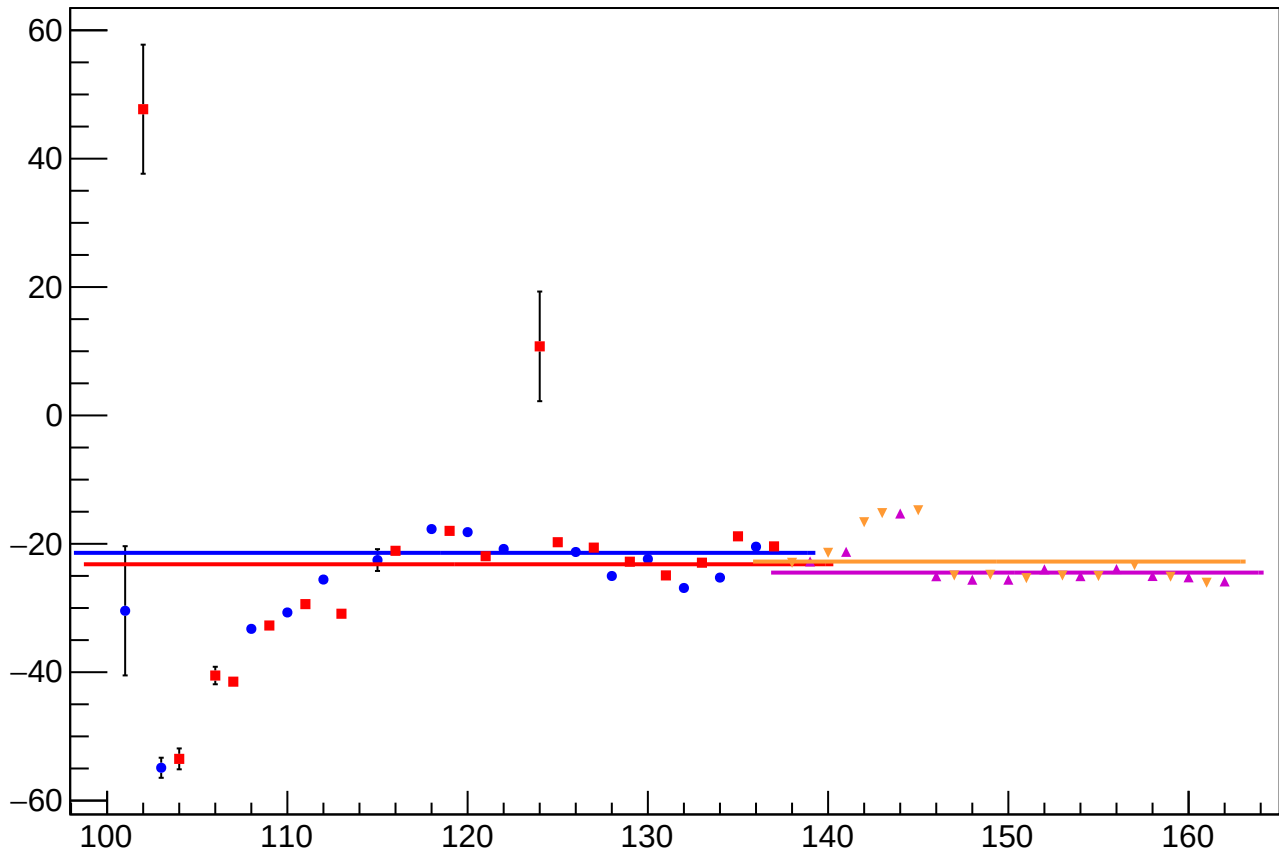
+ sign 14.909 $\pm$ 0.016  $\chi^2$ /NDF: 17301.3/27

All: 15.019 $\pm$ 0.011  $\chi^2$ /NDF: 23109.4/57

- sign 15.134 $\pm$ 0.016  $\chi^2$ /NDF: 5706.7/29



# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-22.763 \pm 0.023$   $\chi^2/\text{NDF}: 28300.6/12$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

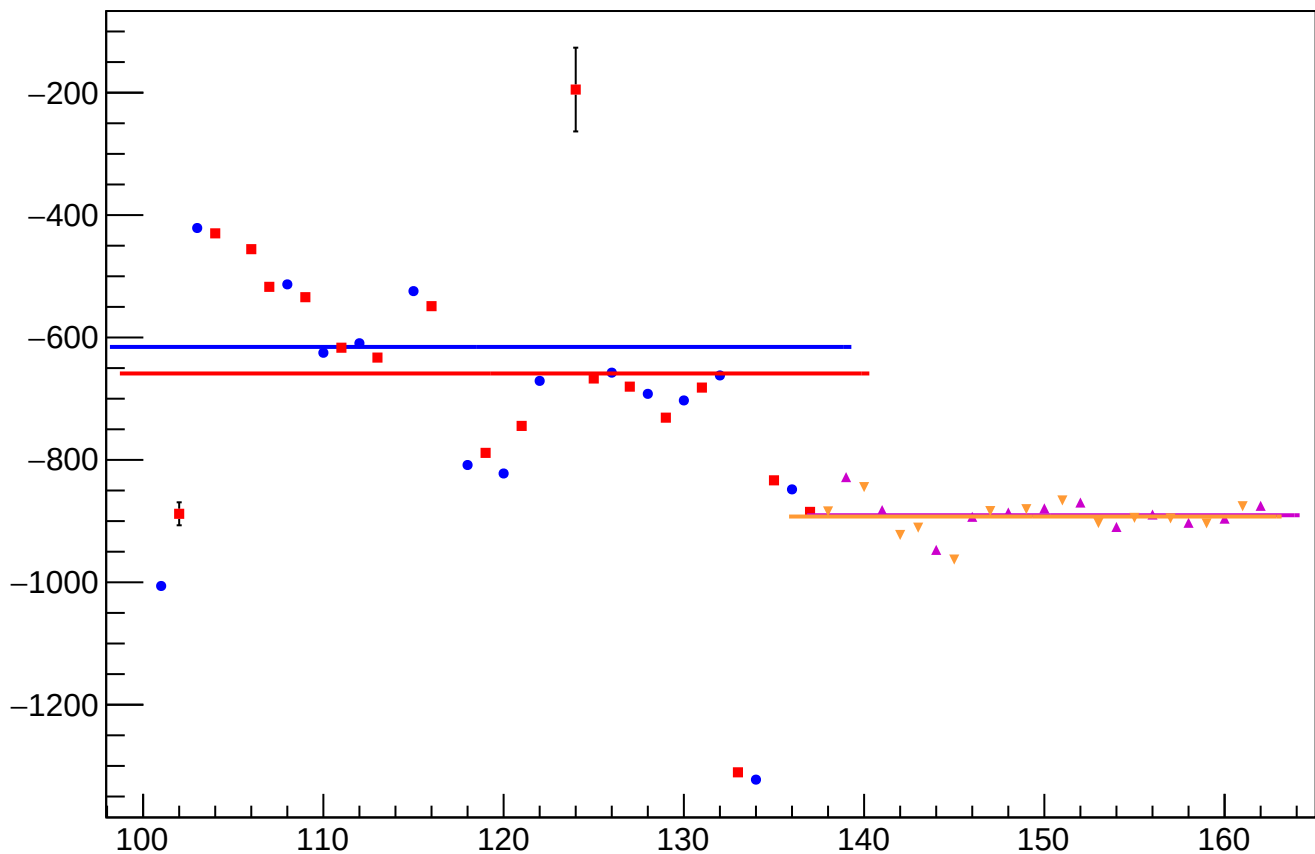
Left In:  $-24.484 \pm 0.020$   $\chi^2/\text{NDF}: 7866.8/11$

+ sign  $-22.373 \pm 0.019$   $\chi^2/\text{NDF}: 39024.1/27$

All:  $-23.369 \pm 0.013$   $\chi^2/\text{NDF}: 61886.7/57$

- sign  $-24.313 \pm 0.019$   $\chi^2/\text{NDF}: 17553.5/29$

# dit\_atr2\_4aX\_slope vs Slug



Right In:  $-615.419 \pm 0.238$   $\chi^2/\text{NDF}: 382819.1/14$

Left Out:  $-892.525 \pm 0.178$   $\chi^2/\text{NDF}: 12215.2/12$

Right Out:  $-658.787 \pm 0.256$   $\chi^2/\text{NDF}: 385262.6/17$

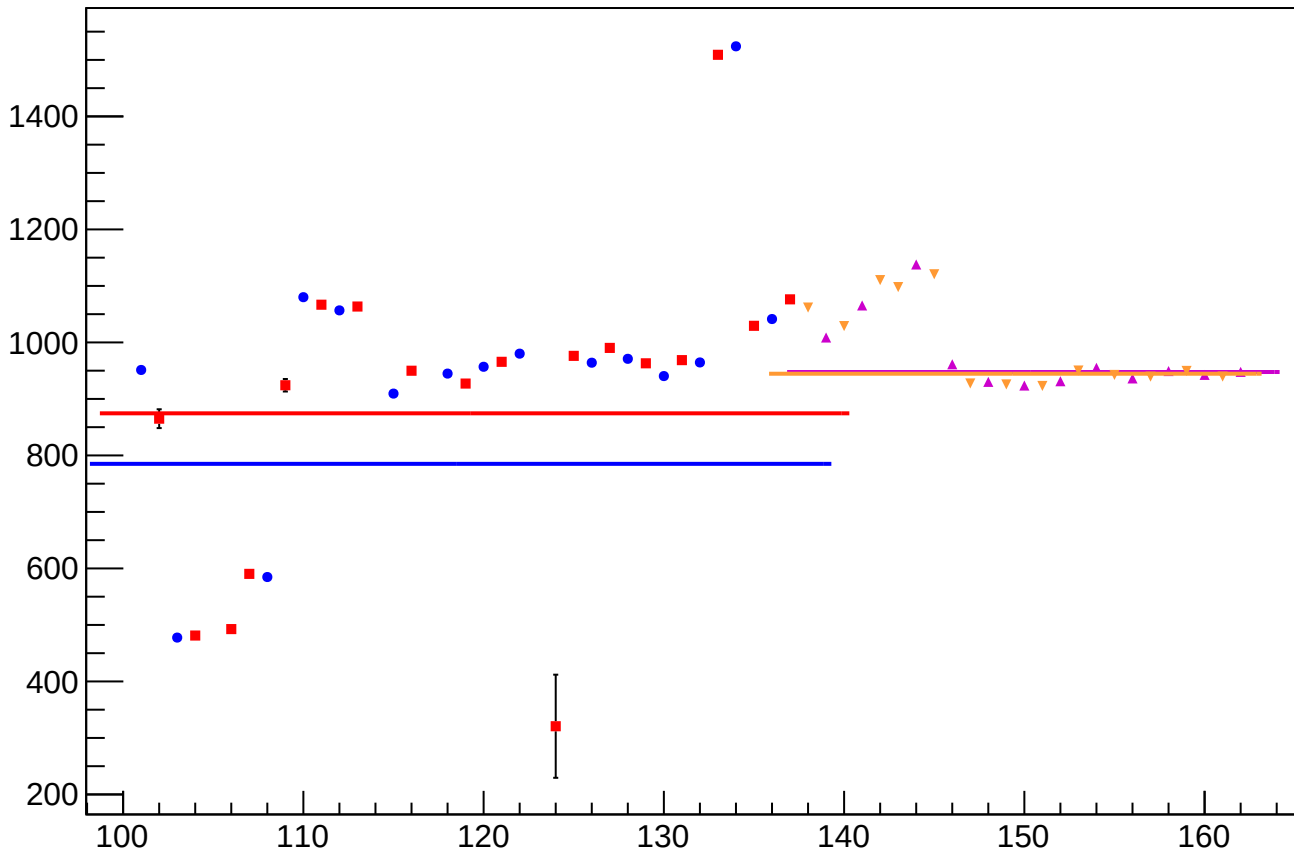
Left In:  $-890.416 \pm 0.152$   $\chi^2/\text{NDF}: 14035.2/11$

+ sign  $-792.766 \pm 0.143$   $\chi^2/\text{NDF}: 1265537.8/27$

All:  $-813.216 \pm 0.096$   $\chi^2/\text{NDF}: 2307639.0/57$

- sign  $-830.354 \pm 0.131$   $\chi^2/\text{NDF}: 1004280.9/29$

# dit\_atr2\_4eX\_slope vs Slug



Right In: 785.095 $\pm$ 0.228  $\chi^2$ /NDF: 886147.1/14

Left Out: 944.590 $\pm$ 0.142  $\chi^2$ /NDF: 68258.9/12

Right Out: 874.516 $\pm$ 0.261  $\chi^2$ /NDF: 842565.5/17

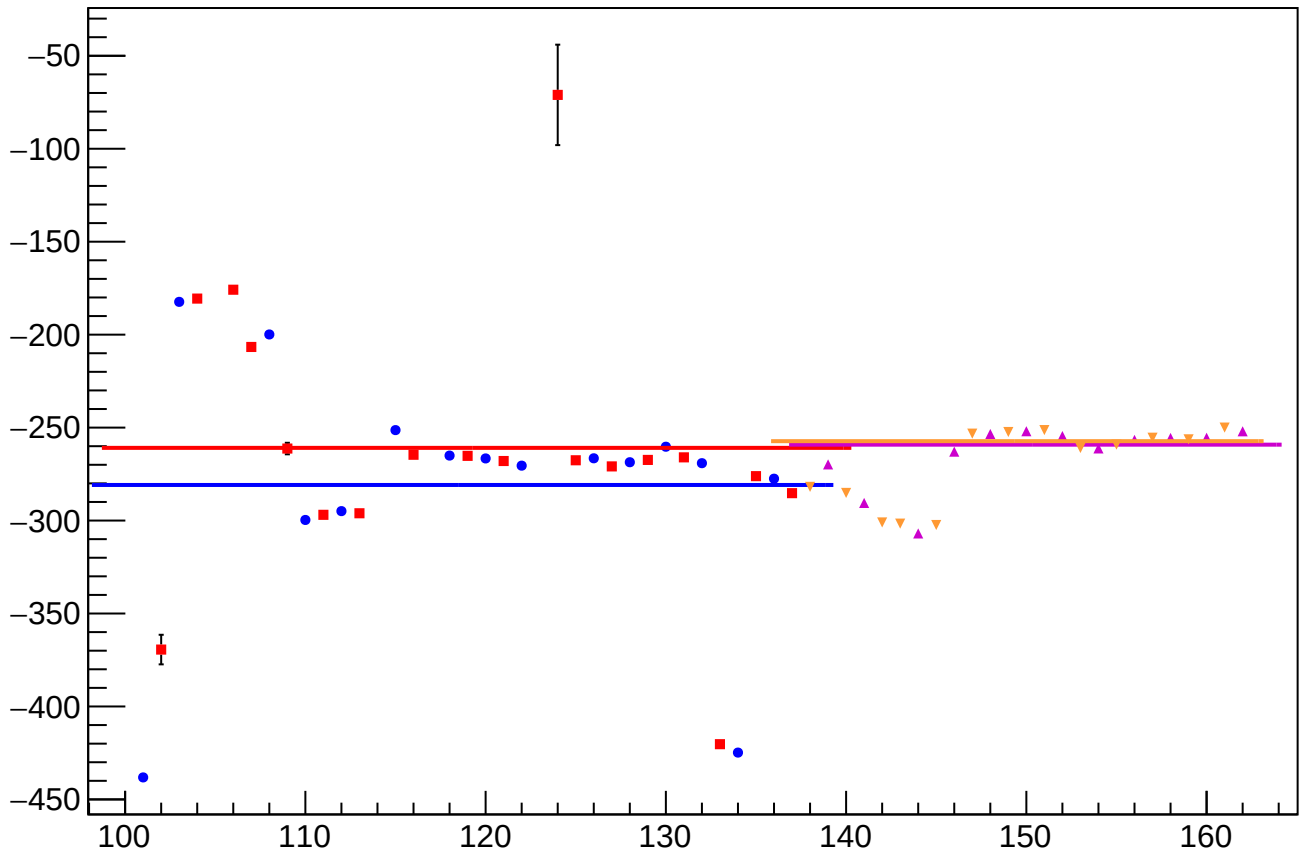
Left In: 947.647 $\pm$ 0.125  $\chi^2$ /NDF: 73914.0/11

+ sign 899.922 $\pm$ 0.121  $\chi^2$ /NDF: 1306593.8/27

All: 918.062 $\pm$ 0.082  $\chi^2$ /NDF: 2329172.5/57

- sign 933.966 $\pm$ 0.113  $\chi^2$ /NDF: 980174.9/29

# dit\_atr2\_11X12X\_slope vs Slug



Right In: -280.856 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 873611.1/14

Left Out: -257.295 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 167989.4/12

Right Out: -260.897 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 347717.5/17

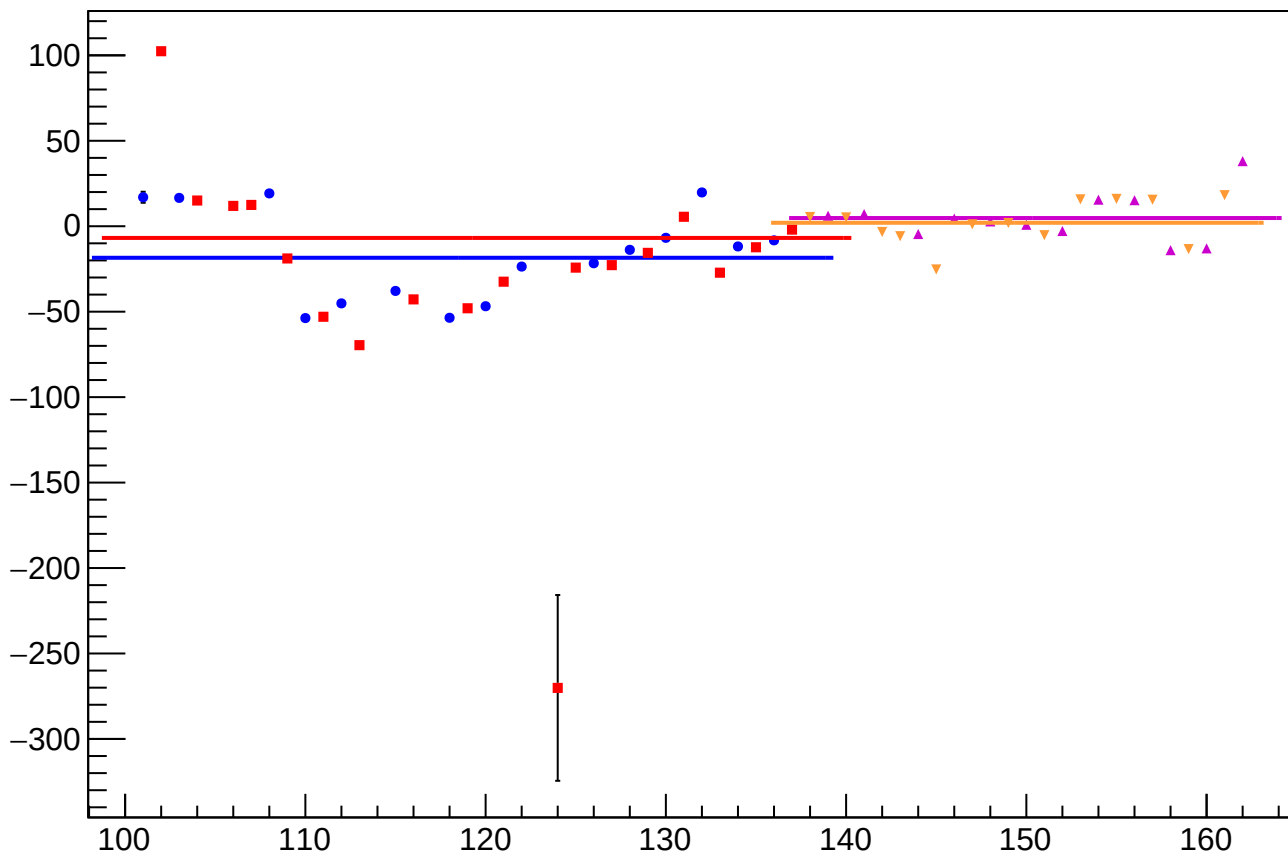
Left In: -259.177 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 186421.6/11

+ sign -260.452 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 1181918.7/27

All: -259.902 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 1717959.0/57

- sign -259.350 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 534721.8/29

# dit\_atr2\_4aY\_slope vs Slug



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}$ : 46574.6/14

Left Out:  $2.026 \pm 0.029$   $\chi^2/\text{NDF}$ : 188987.0/12

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}$ : 50023.0/17

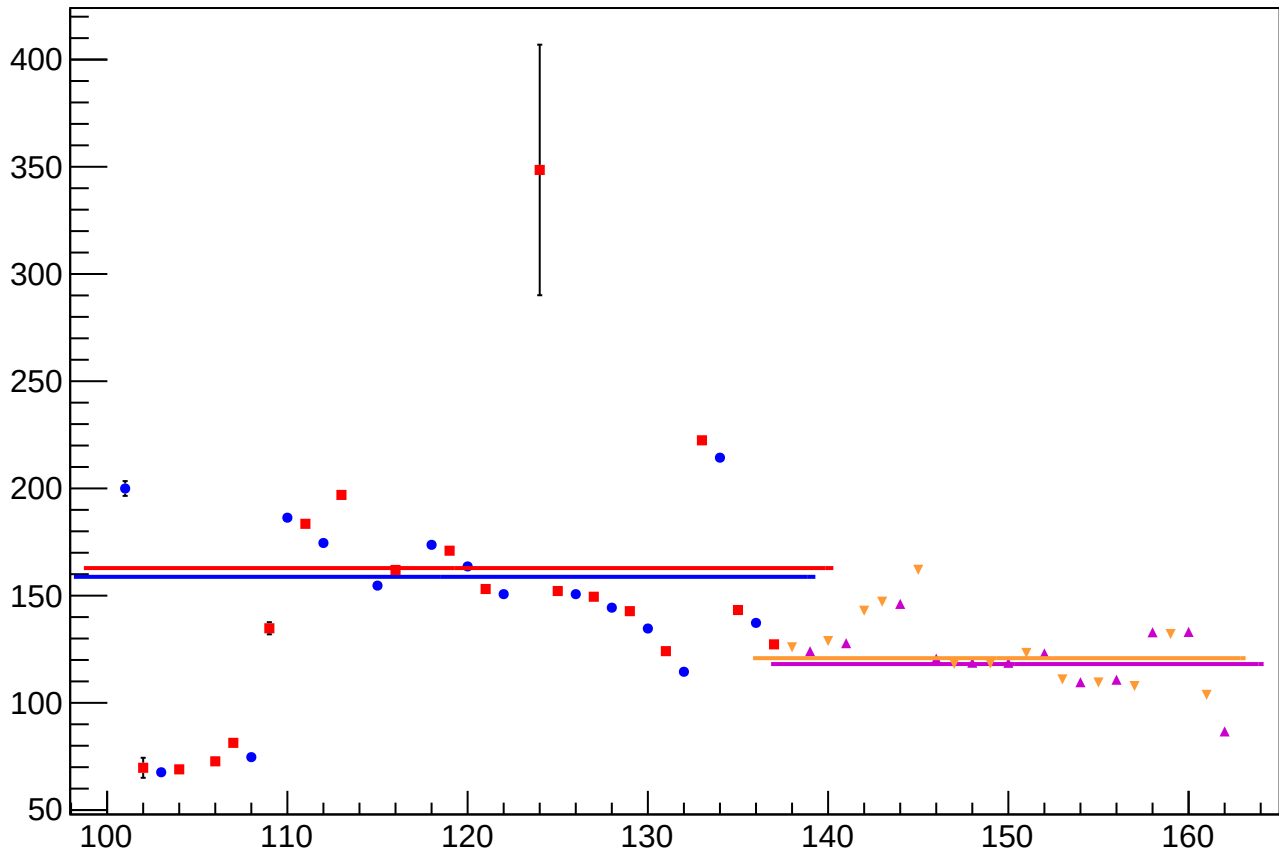
Left In:  $4.804 \pm 0.023$   $\chi^2/\text{NDF}$ : 389506.9/11

+ sign  $0.159 \pm 0.028$   $\chi^2/\text{NDF}$ : 281309.5/27

All:  $2.246 \pm 0.017$   $\chi^2/\text{NDF}$ : 758999.5/57

- sign  $3.515 \pm 0.021$   $\chi^2/\text{NDF}$ : 468463.5/29

dit\_atr2\_4eY\_slope vs Slug



Right In: 158.772 $\pm$ 0.088  $\chi^2$ /NDF: 159016.5/14

Left Out: 120.839 $\pm$ 0.034  $\chi^2$ /NDF:103700.9/12

Right Out: 162.856 $\pm$ 0.093  $\chi^2$ /NDF: 156176.8/17

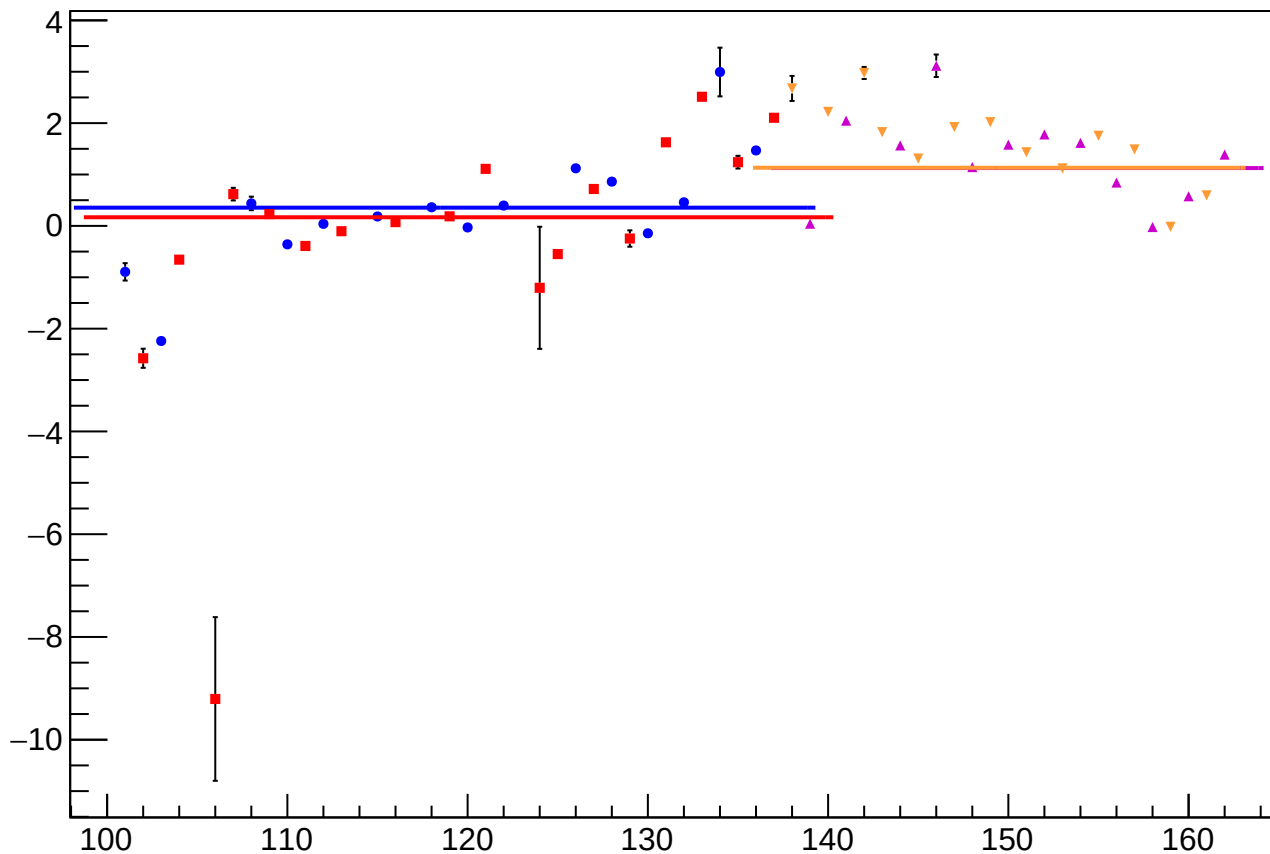
Left In: 118.096 $\pm$ 0.028  $\chi^2$ /NDF:255444.8/11

+ sign 125.659 $\pm$ 0.031  $\chi^2$ /NDF: 423783.2/27

All: 123.399 $\pm$ 0.020  $\chi^2$ /NDF: 1055686.3/57

- sign 121.770 $\pm$ 0.027  $\chi^2$ /NDF: 623033.5/29

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $0.355 \pm 0.012$   $\chi^2/\text{NDF}$ : 4011.3/14

Left Out:  $1.132 \pm 0.012$   $\chi^2/\text{NDF}$ : 4754.4/12

Right Out:  $0.168 \pm 0.008$   $\chi^2/\text{NDF}$ : 4588.1/17

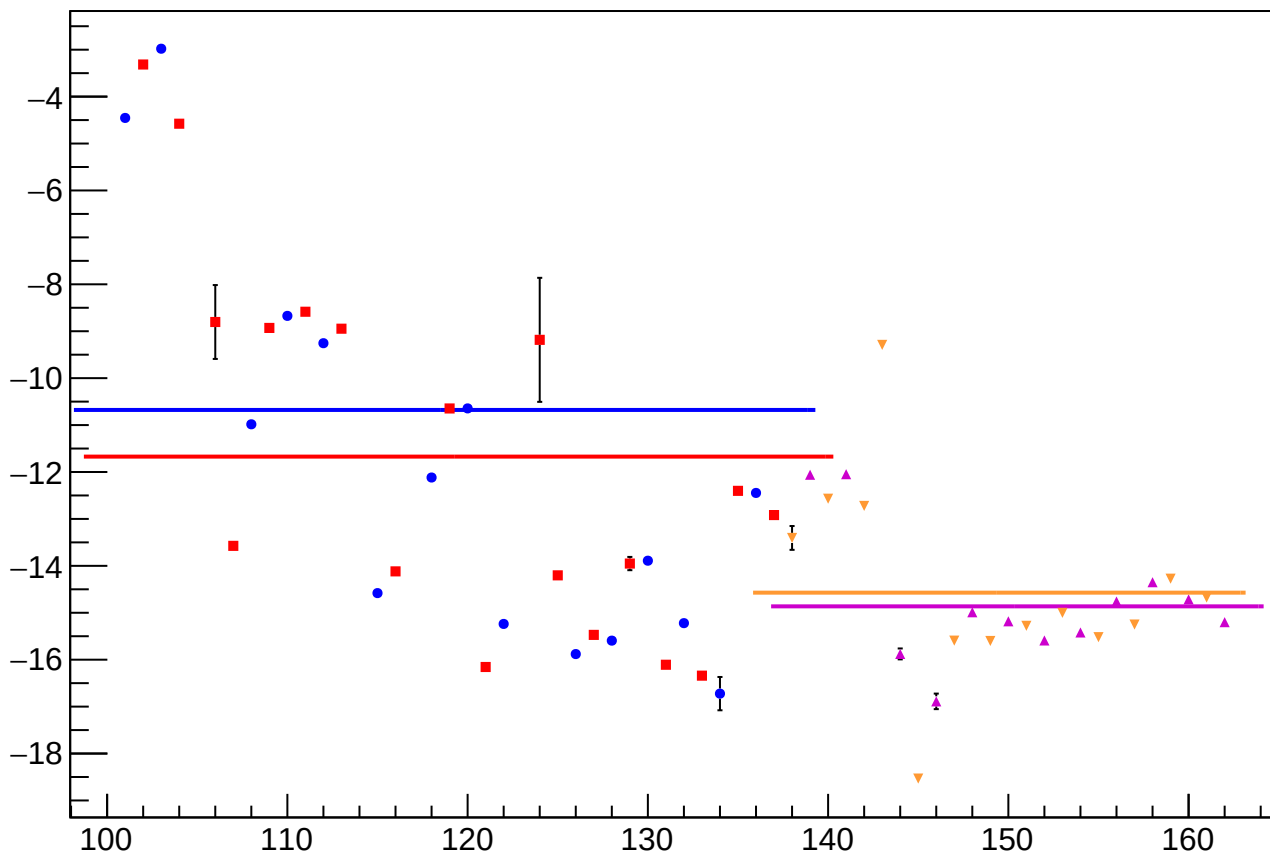
Left In:  $1.125 \pm 0.009$   $\chi^2/\text{NDF}$ : 6143.6/11

+ sign  $0.727 \pm 0.008$   $\chi^2/\text{NDF}$ : 10856.0/27

All:  $0.623 \pm 0.005$   $\chi^2/\text{NDF}$ : 28483.8/57

- sign  $0.575 \pm 0.006$   $\chi^2/\text{NDF}$ : 17410.0/29

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.571 \pm 0.010$   $\chi^2/\text{NDF}: 29250.4/12$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

Left In:  $-14.863 \pm 0.008$   $\chi^2/\text{NDF}: 11421.0/11$

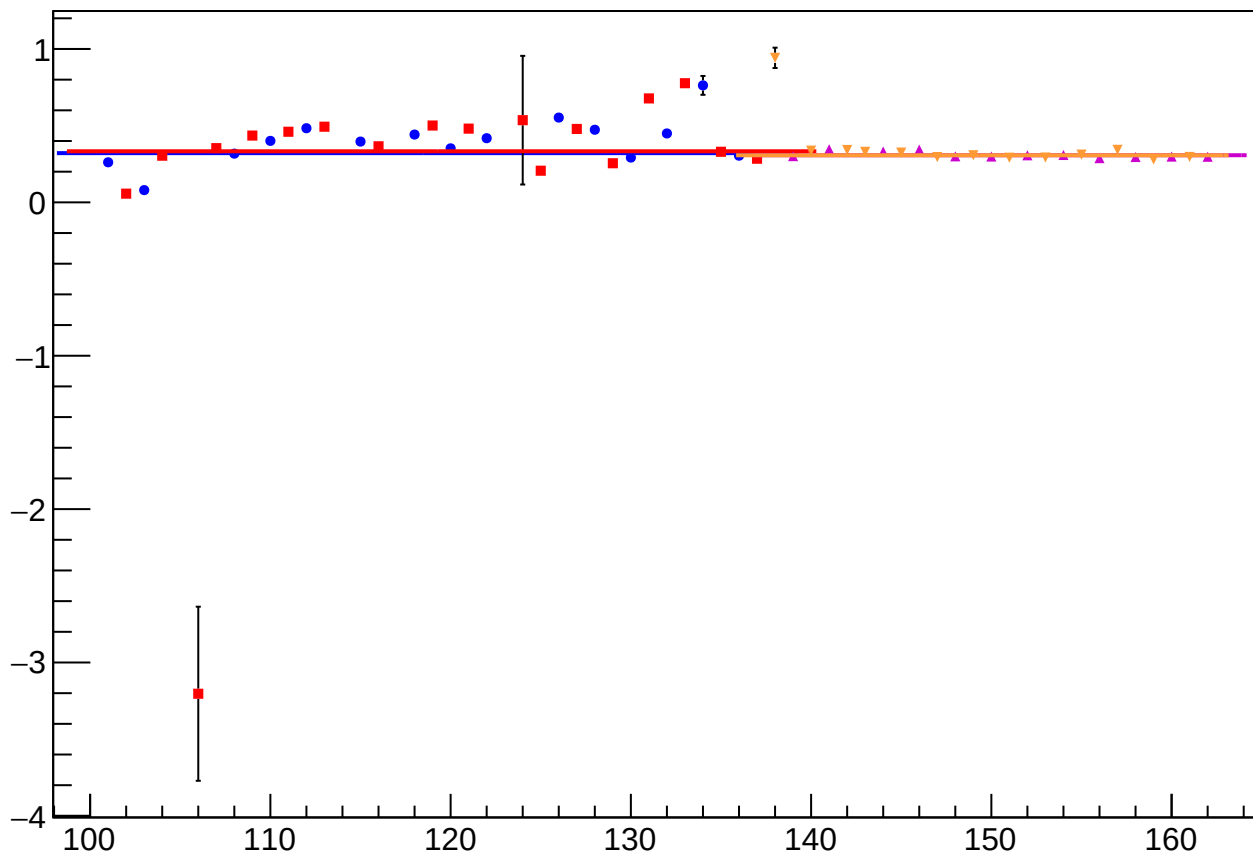
+ sign  $-12.663 \pm 0.007$   $\chi^2/\text{NDF}: 329212.2/27$

All:  $-13.314 \pm 0.005$   $\chi^2/\text{NDF}: 514833.6/57$

- sign  $-13.854 \pm 0.007$   $\chi^2/\text{NDF}: 170644.0/29$



# dit\_sam1\_11X12X\_slope vs Slug



Right In: 0.321 $\pm$ 0.001  $\chi^2$ /NDF: 4017.7/14

Left Out: 0.307 $\pm$ 0.000  $\chi^2$ /NDF: 3724.2/12

Right Out: 0.333 $\pm$ 0.001  $\chi^2$ /NDF: 4170.0/17

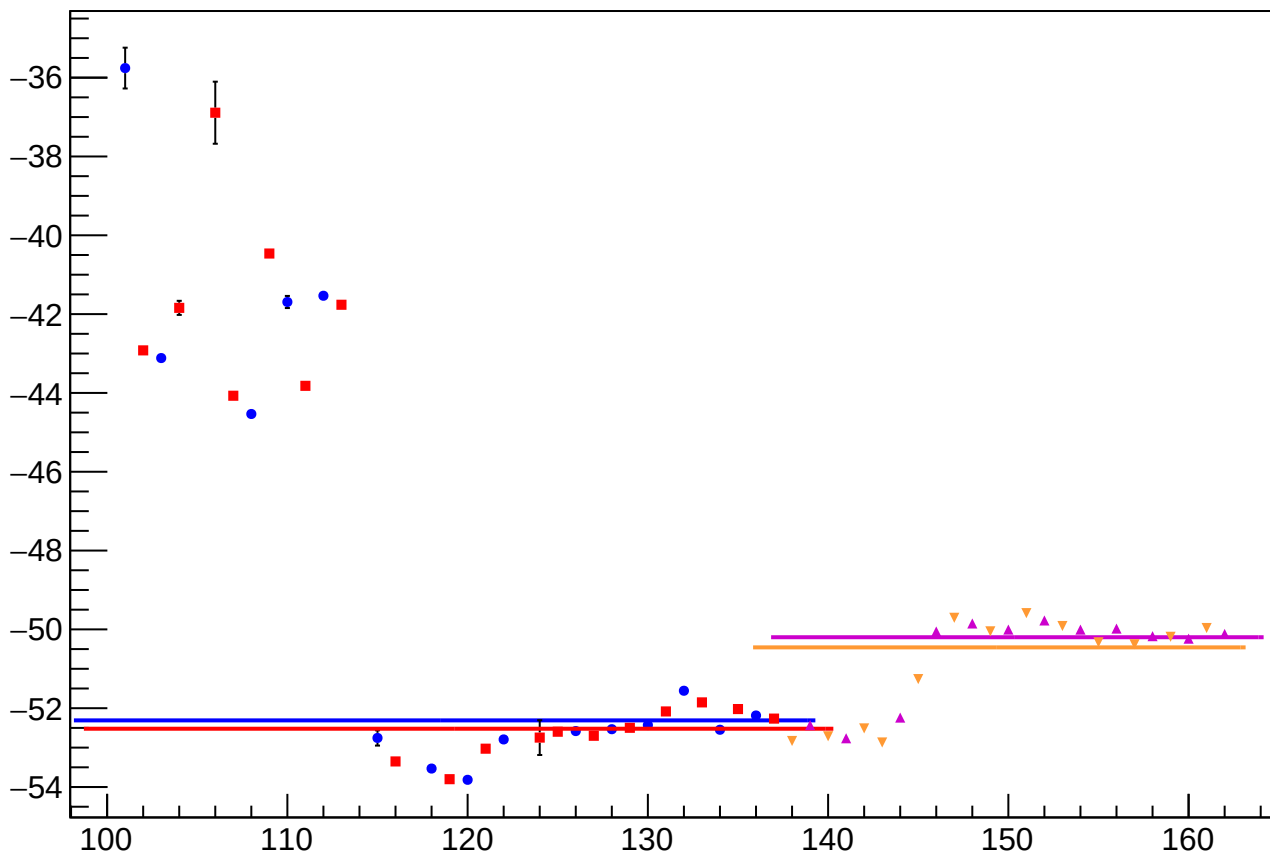
Left In: 0.307 $\pm$ 0.000  $\chi^2$ /NDF: 2045.1/11

+ sign 0.309 $\pm$ 0.000  $\chi^2$ /NDF: 7937.7/27

All: 0.309 $\pm$ 0.000  $\chi^2$ /NDF: 14552.8/57

- sign 0.309 $\pm$ 0.000  $\chi^2$ /NDF: 6615.0/29

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}$ : 53459.2/14

Left Out:  $-50.457 \pm 0.002$   $\chi^2/\text{NDF}$ : 216389.9/12

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}$ : 76616.3/17

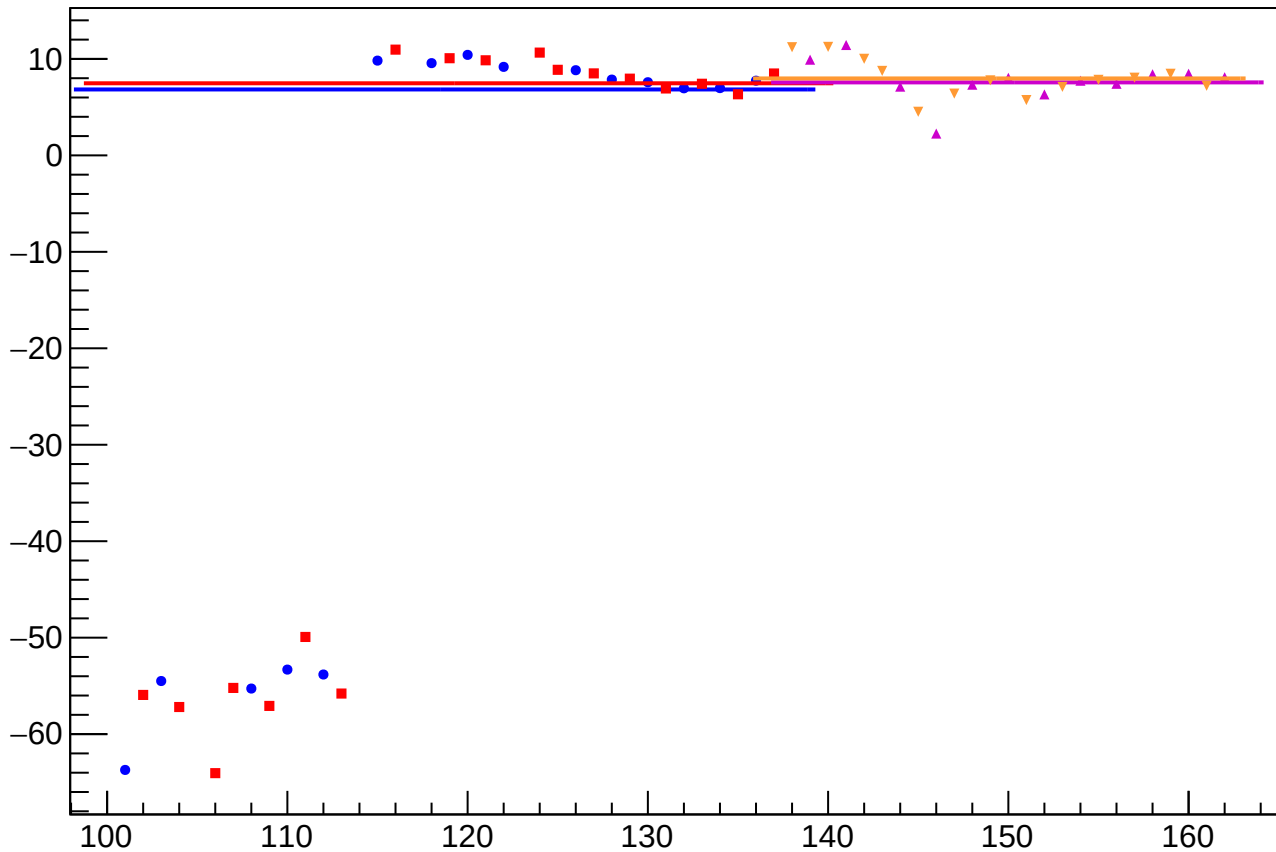
Left In:  $-50.199 \pm 0.002$   $\chi^2/\text{NDF}$ : 155251.2/11

+ sign  $-50.835 \pm 0.002$   $\chi^2/\text{NDF}$ : 410030.1/27

All:  $-50.589 \pm 0.001$   $\chi^2/\text{NDF}$ : 892646.4/57

- sign  $-50.448 \pm 0.002$   $\chi^2/\text{NDF}$ : 458753.2/29

# dit\_sam1\_4eY\_slope vs Slug



Right In:  $6.834 \pm 0.005$   $\chi^2/\text{NDF}$ : 990576.4/14

Left Out:  $7.977 \pm 0.005$   $\chi^2/\text{NDF}$ : 78731.7/12

Right Out:  $7.474 \pm 0.009$   $\chi^2/\text{NDF}$ : 1195498.7/17

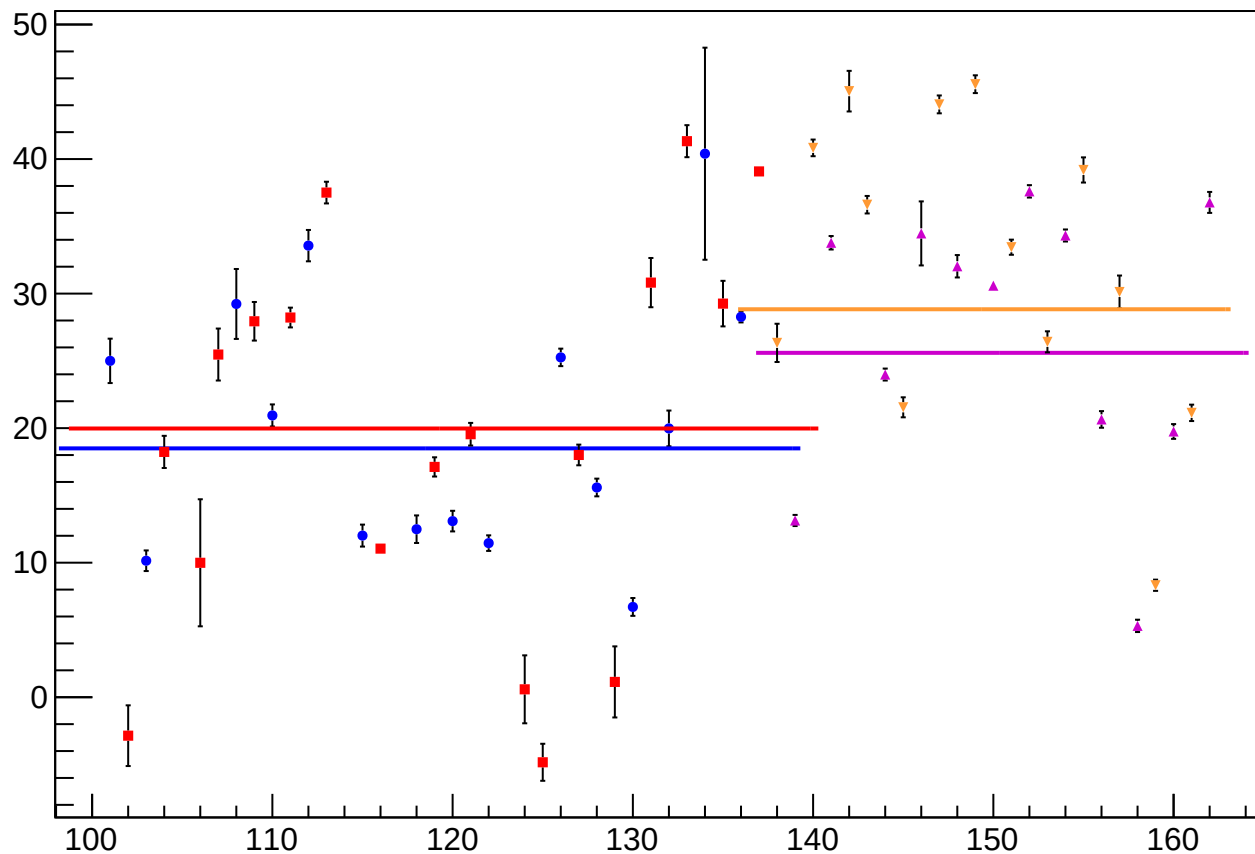
Left In:  $7.566 \pm 0.004$   $\chi^2/\text{NDF}$ : 99927.6/11

+ sign  $7.453 \pm 0.003$   $\chi^2/\text{NDF}$ : 1096935.3/27

All:  $7.503 \pm 0.002$   $\chi^2/\text{NDF}$ : 2392871.5/57

- sign  $7.553 \pm 0.003$   $\chi^2/\text{NDF}$ : 1295511.1/29

# dit\_sam2\_4aX\_slope vs Slug



Right In: 18.496 $\pm$ 0.200  $\chi^2$ /NDF: 1636.7/14

Left Out: 28.836 $\pm$ 0.191  $\chi^2$ /NDF: 4674.9/12

Right Out: 19.974 $\pm$ 0.130  $\chi^2$ /NDF: 9201.3/17

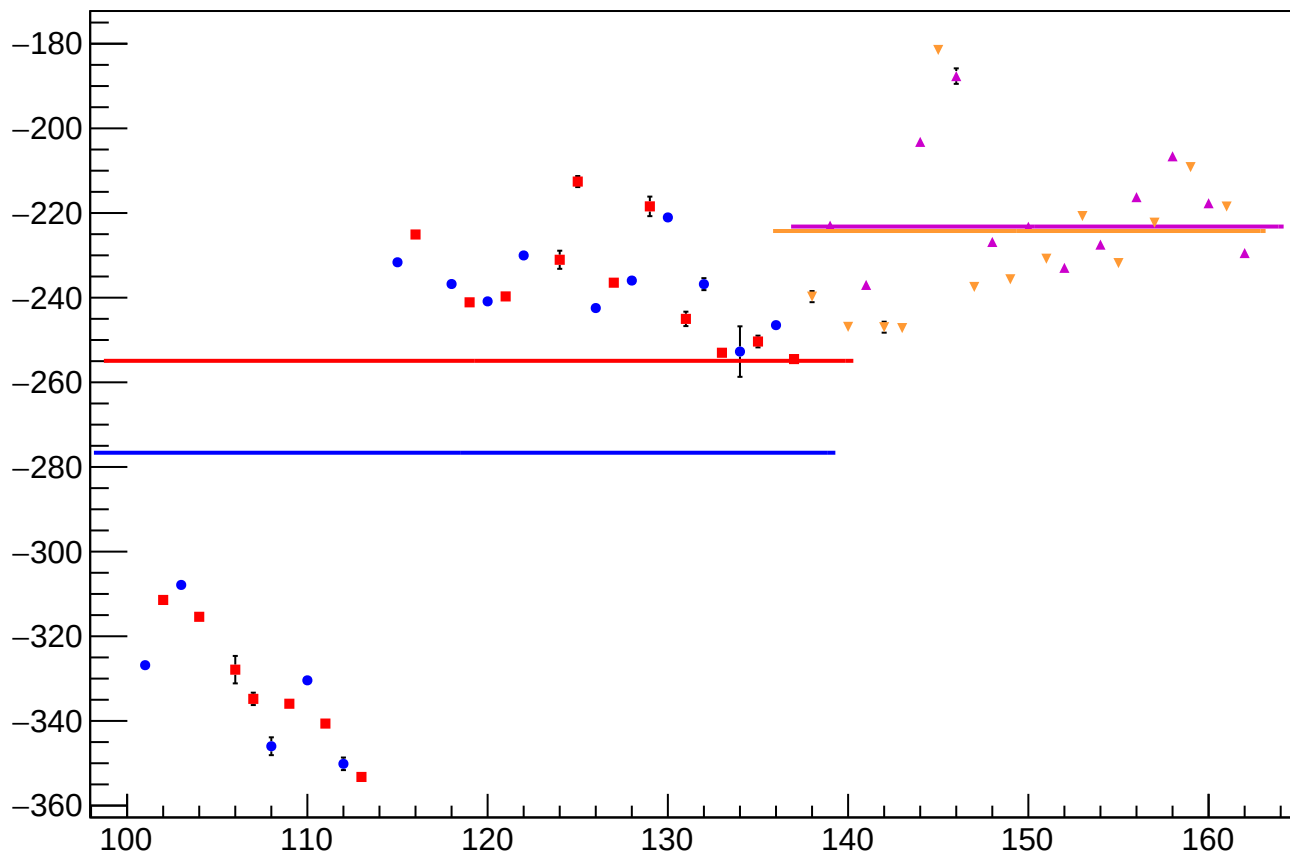
Left In: 25.597 $\pm$ 0.144  $\chi^2$ /NDF: 4892.6/11

+ sign 23.895 $\pm$ 0.138  $\chi^2$ /NDF: 7706.4/27

All: 22.956 $\pm$ 0.079  $\chi^2$ /NDF: 22706.4/57

- sign 22.498 $\pm$ 0.097  $\chi^2$ /NDF: 14931.5/29

# dit\_sam2\_4eX\_slope vs Slug



Right In:  $-276.636 \pm 0.148$   $\chi^2/\text{NDF}$ : 77119.6/14

Left Out:  $-224.249 \pm 0.155$   $\chi^2/\text{NDF}$ : 13802.5/12

Right Out:  $-254.921 \pm 0.071$   $\chi^2/\text{NDF}$ : 71945.8/17

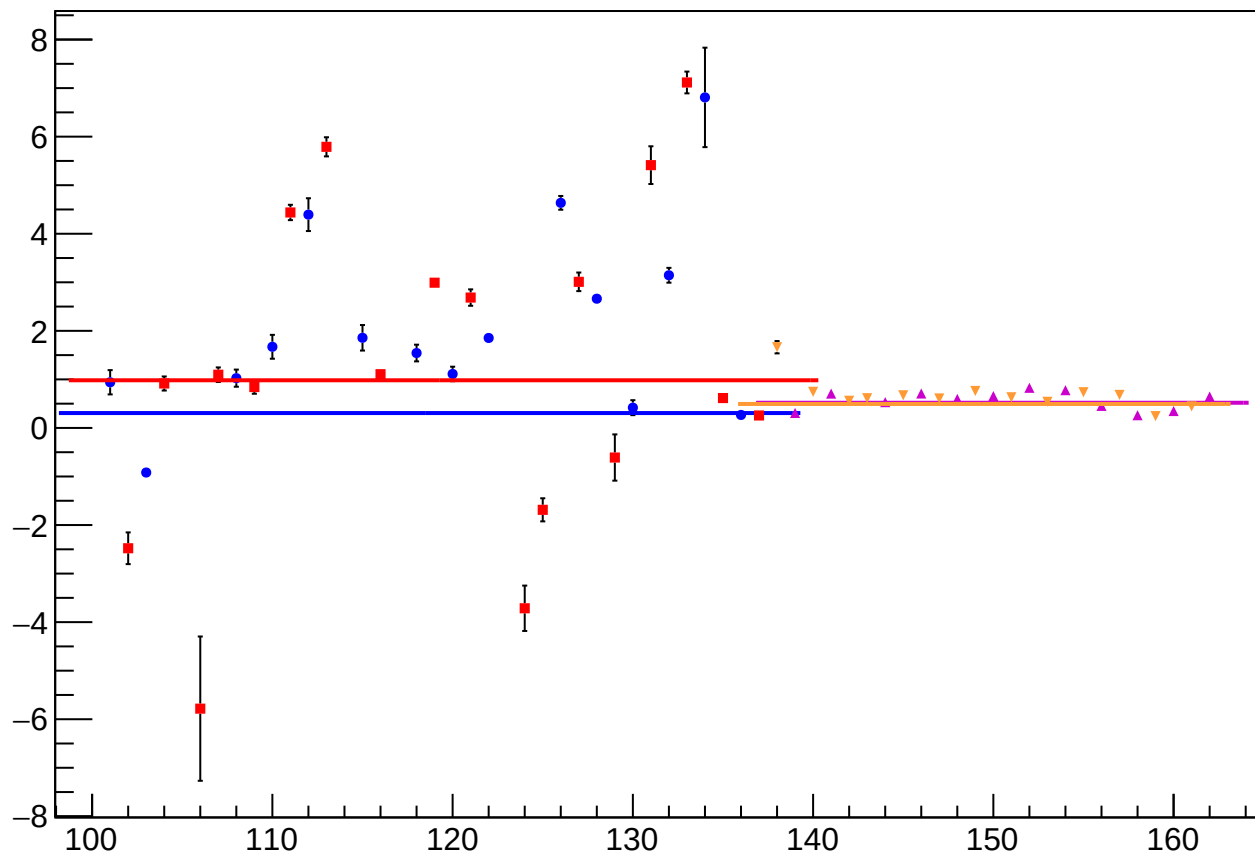
Left In:  $-223.197 \pm 0.124$   $\chi^2/\text{NDF}$ : 4783.3/11

+ sign  $-251.702 \pm 0.107$   $\chi^2/\text{NDF}$ : 150924.5/27

All:  $-248.199 \pm 0.053$   $\chi^2/\text{NDF}$ : 278442.2/57

- sign  $-247.028 \pm 0.062$   $\chi^2/\text{NDF}$ : 126082.2/29

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $0.307 \pm 0.007$   $\chi^2/\text{NDF}: 2787.0/14$

Left Out:  $0.494 \pm 0.002$   $\chi^2/\text{NDF}: 7533.5/12$

Right Out:  $0.982 \pm 0.015$   $\chi^2/\text{NDF}: 3374.7/17$

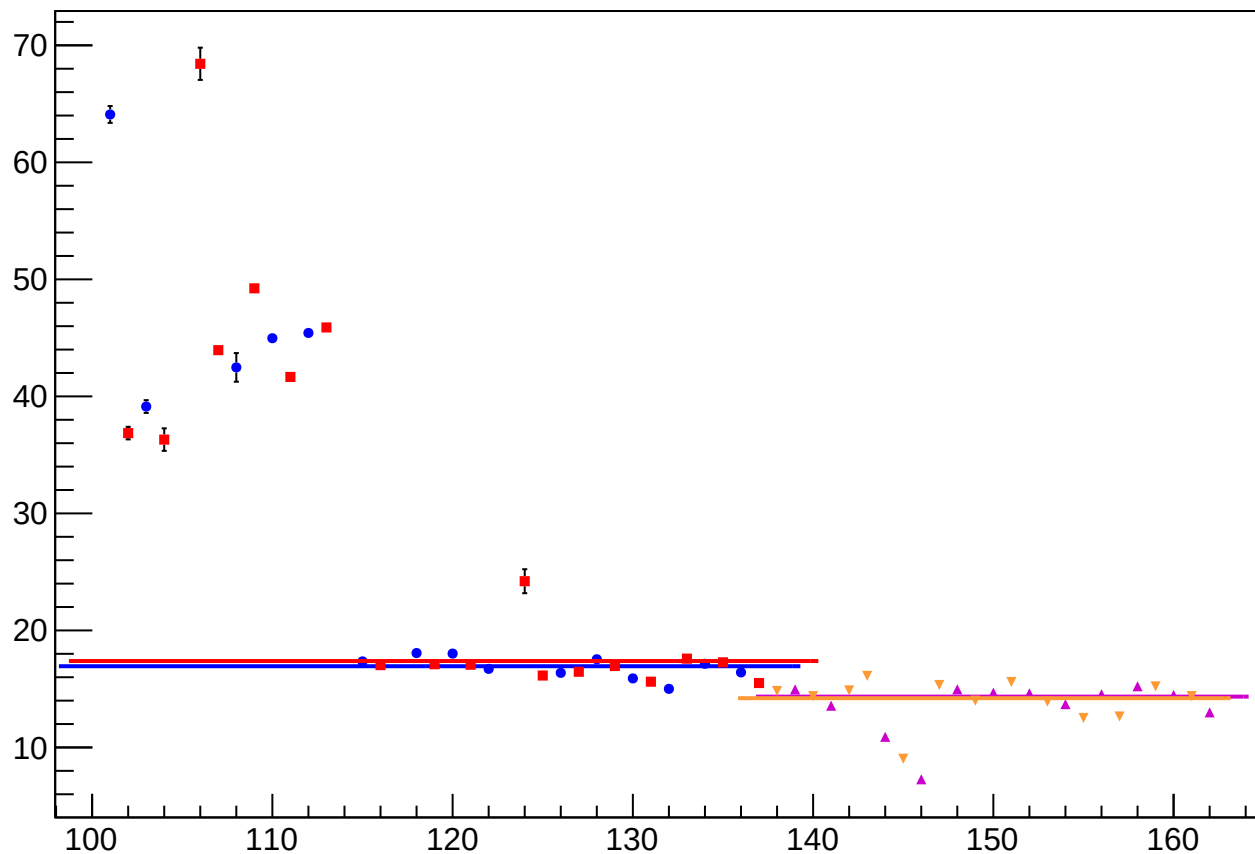
Left In:  $0.519 \pm 0.002$   $\chi^2/\text{NDF}: 12334.9/11$

+ sign  $0.472 \pm 0.002$   $\chi^2/\text{NDF}: 11025.0/27$

All:  $0.503 \pm 0.001$   $\chi^2/\text{NDF}: 28045.9/57$

- sign  $0.527 \pm 0.002$   $\chi^2/\text{NDF}: 16687.2/29$

# dit\_sam2\_4aY\_slope vs Slug



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}: 29019.8/14$

Left Out:  $14.209 \pm 0.010$   $\chi^2/\text{NDF}: 49714.4/12$

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}: 61131.5/17$

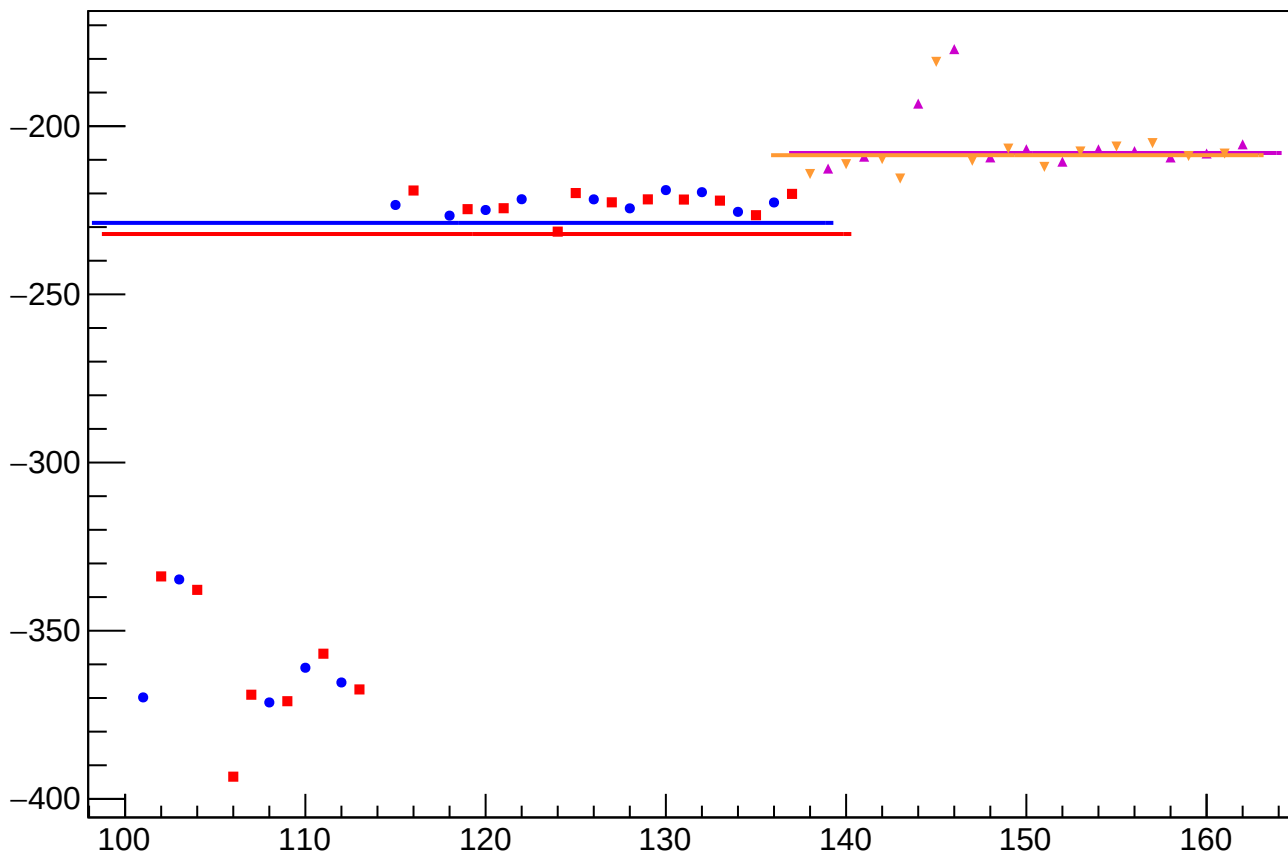
Left In:  $14.344 \pm 0.010$   $\chi^2/\text{NDF}: 8571.7/11$

+ sign  $15.200 \pm 0.008$   $\chi^2/\text{NDF}: 107450.5/27$

All:  $15.134 \pm 0.006$   $\chi^2/\text{NDF}: 200232.0/57$

- sign  $15.054 \pm 0.008$   $\chi^2/\text{NDF}: 92619.4/29$

# dit\_sam2\_4eY\_slope vs Slug



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}: 657578.5/14$

Left Out:  $-208.627 \pm 0.020$   $\chi^2/\text{NDF}: 73808.6/12$

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}: 791526.5/17$

Left In:  $-207.968 \pm 0.018$   $\chi^2/\text{NDF}: 15785.1/11$

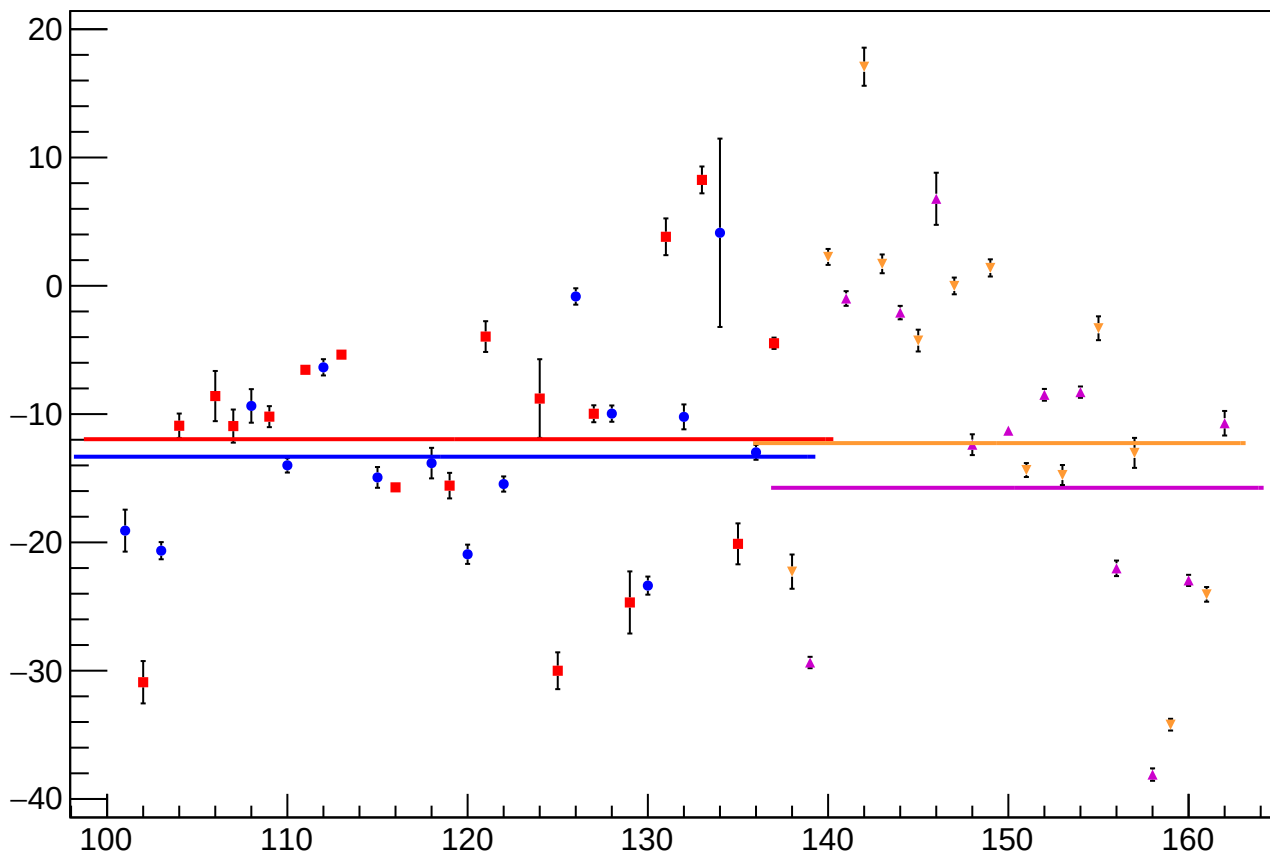
+ sign  $-213.551 \pm 0.017$   $\chi^2/\text{NDF}: 985589.5/27$

All:  $-212.711 \pm 0.012$   $\chi^2/\text{NDF}: 2082057.1/57$

- sign  $-211.913 \pm 0.017$   $\chi^2/\text{NDF}: 1091793.2/29$



# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-13.321 \pm 0.194$   $\chi^2/\text{NDF}$ : 1013.0/14

Left Out:  $-12.261 \pm 0.196$   $\chi^2/\text{NDF}$ : 5041.9/12

Right Out:  $-11.956 \pm 0.113$   $\chi^2/\text{NDF}$ : 2487.2/17

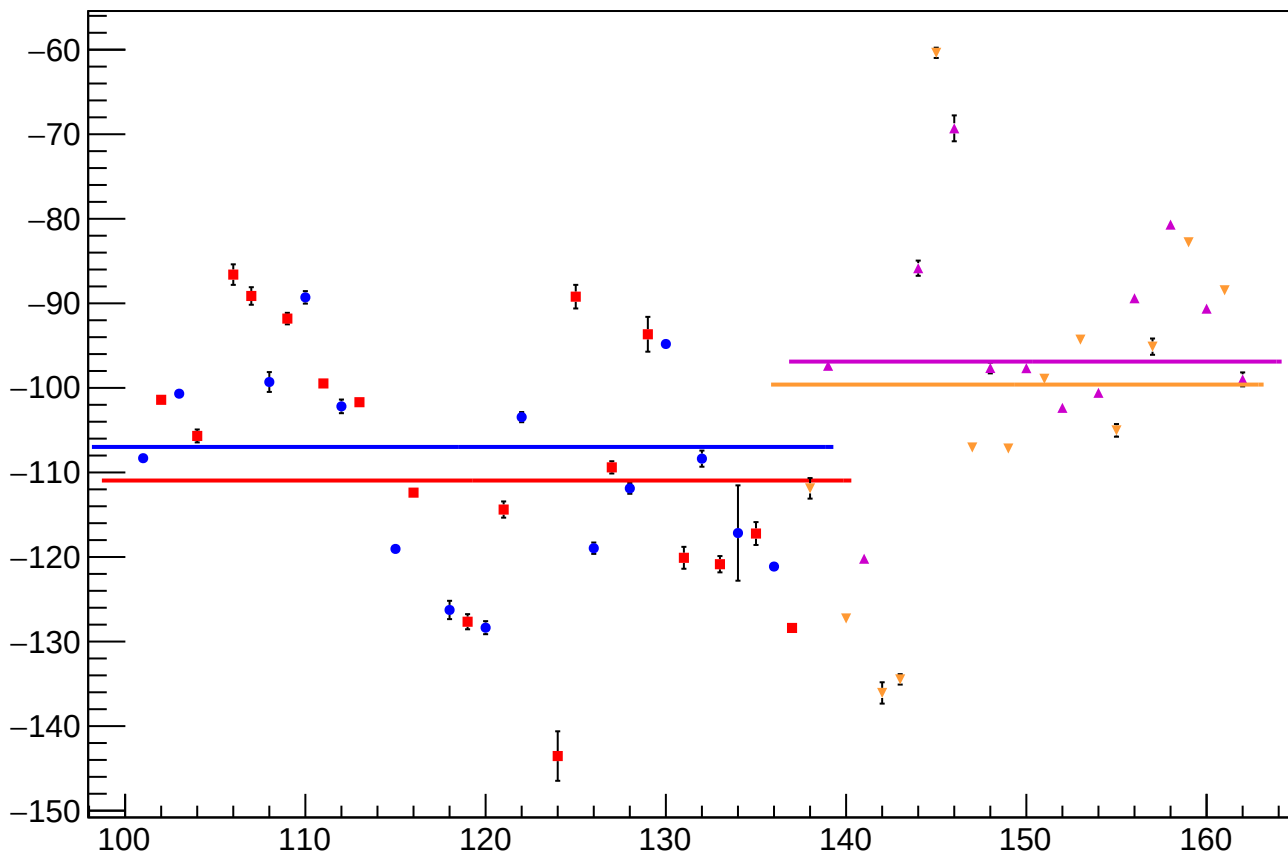
Left In:  $-15.745 \pm 0.149$   $\chi^2/\text{NDF}$ : 5663.6/11

+ sign  $-12.796 \pm 0.138$   $\chi^2/\text{NDF}$ : 6069.8/27

All:  $-13.172 \pm 0.075$   $\chi^2/\text{NDF}$ : 14642.3/57

- sign  $-13.332 \pm 0.090$   $\chi^2/\text{NDF}$ : 8561.9/29

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-106.983 \pm 0.110$   $\chi^2/\text{NDF}: 4658.3/14$

Left Out:  $-99.607 \pm 0.156$   $\chi^2/\text{NDF}: 14632.9/12$

Right Out:  $-110.955 \pm 0.050$   $\chi^2/\text{NDF}: 10675.0/17$

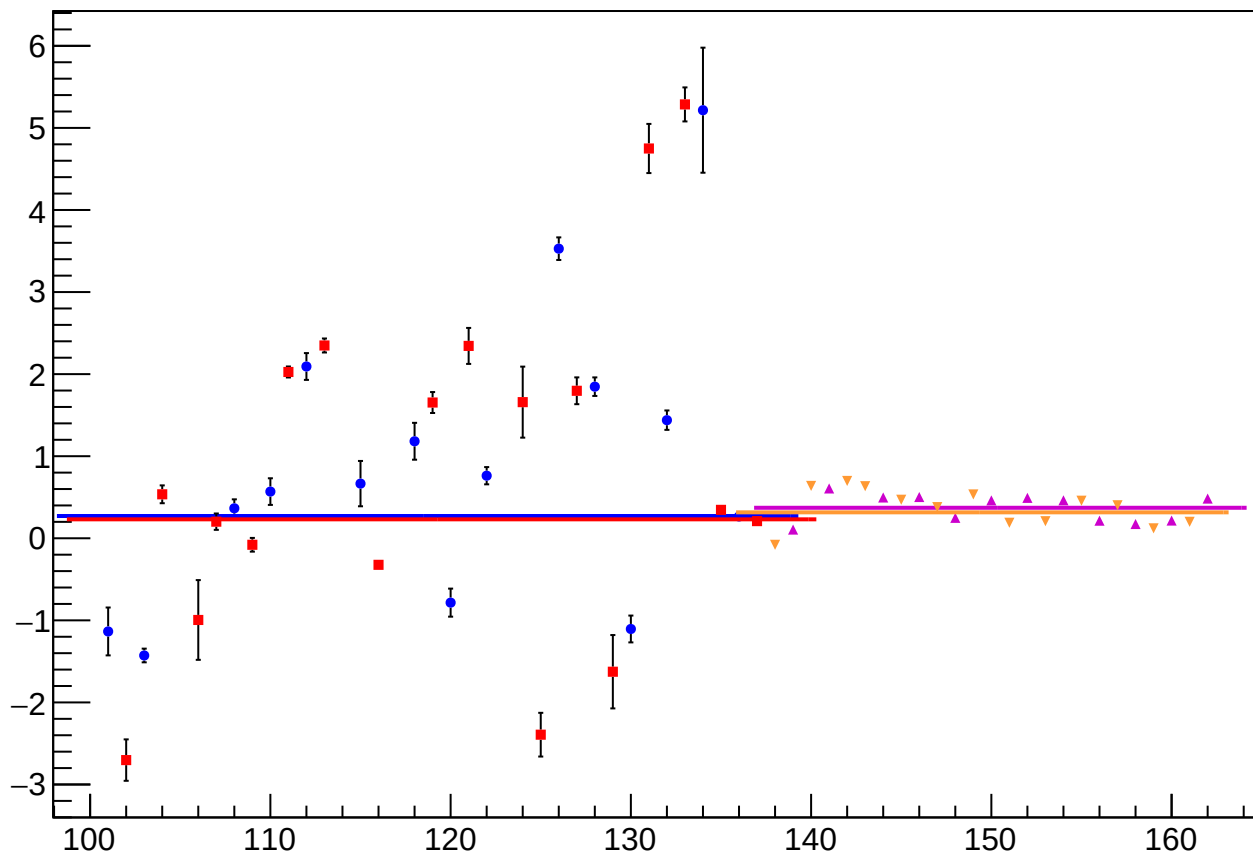
Left In:  $-96.889 \pm 0.125$   $\chi^2/\text{NDF}: 5254.2/11$

+ sign  $-104.534 \pm 0.090$   $\chi^2/\text{NDF}: 20782.9/27$

All:  $-108.048 \pm 0.041$   $\chi^2/\text{NDF}: 49626.6/57$

- sign  $-108.989 \pm 0.047$   $\chi^2/\text{NDF}: 26908.2/29$

# dit\_sam3\_11X12X\_slope vs Slug



Right In:  $0.271 \pm 0.005$   $\chi^2/\text{NDF}: 1612.2/14$

Left Out:  $0.316 \pm 0.003$   $\chi^2/\text{NDF}: 6406.8/12$

Right Out:  $0.231 \pm 0.004$   $\chi^2/\text{NDF}: 2907.8/17$

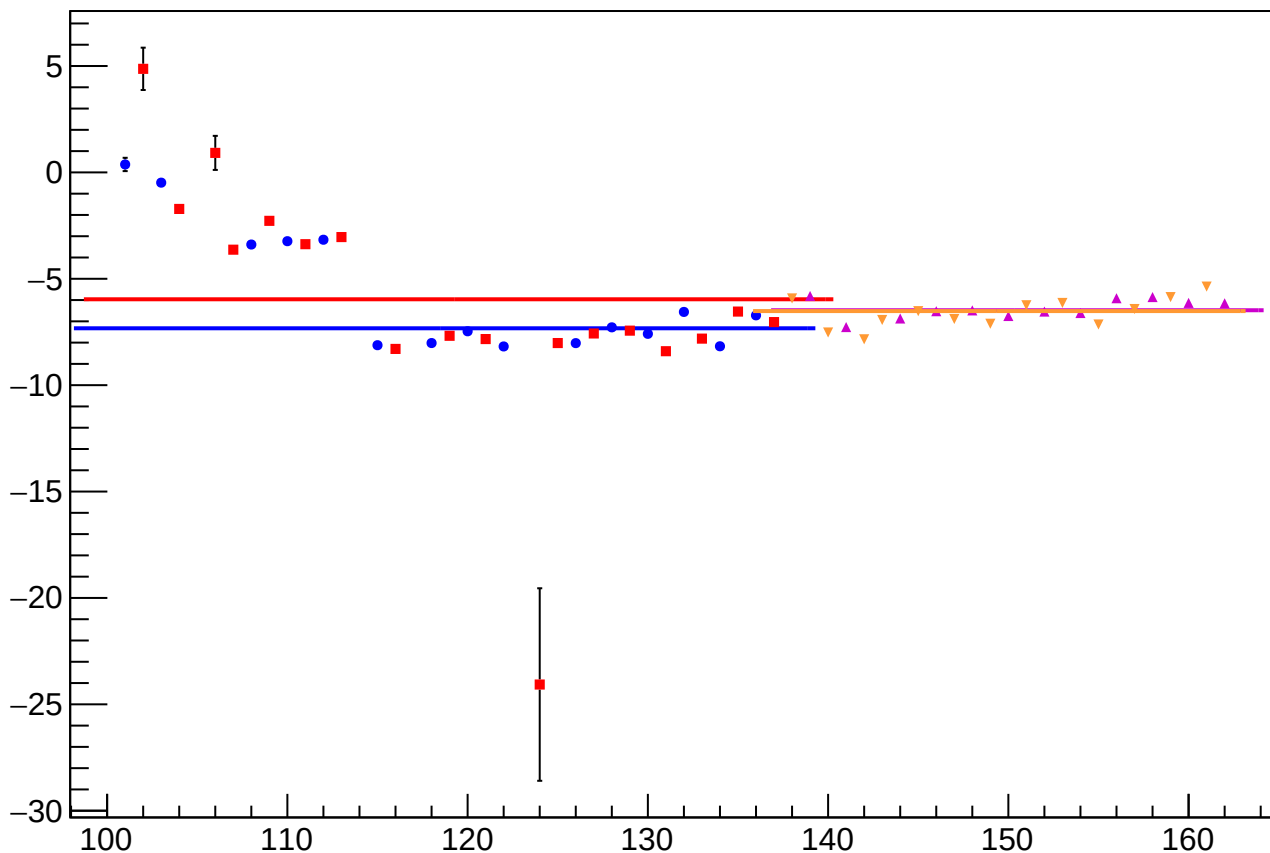
Left In:  $0.372 \pm 0.002$   $\chi^2/\text{NDF}: 7377.3/11$

+ sign  $0.307 \pm 0.002$   $\chi^2/\text{NDF}: 8076.1/27$

All:  $0.332 \pm 0.001$   $\chi^2/\text{NDF}: 19380.2/57$

- sign  $0.347 \pm 0.002$   $\chi^2/\text{NDF}: 11125.3/29$

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}$ : 30494.2/14

Left Out:  $-6.518 \pm 0.008$   $\chi^2/\text{NDF}$ : 5344.7/12

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}$ : 71807.1/17

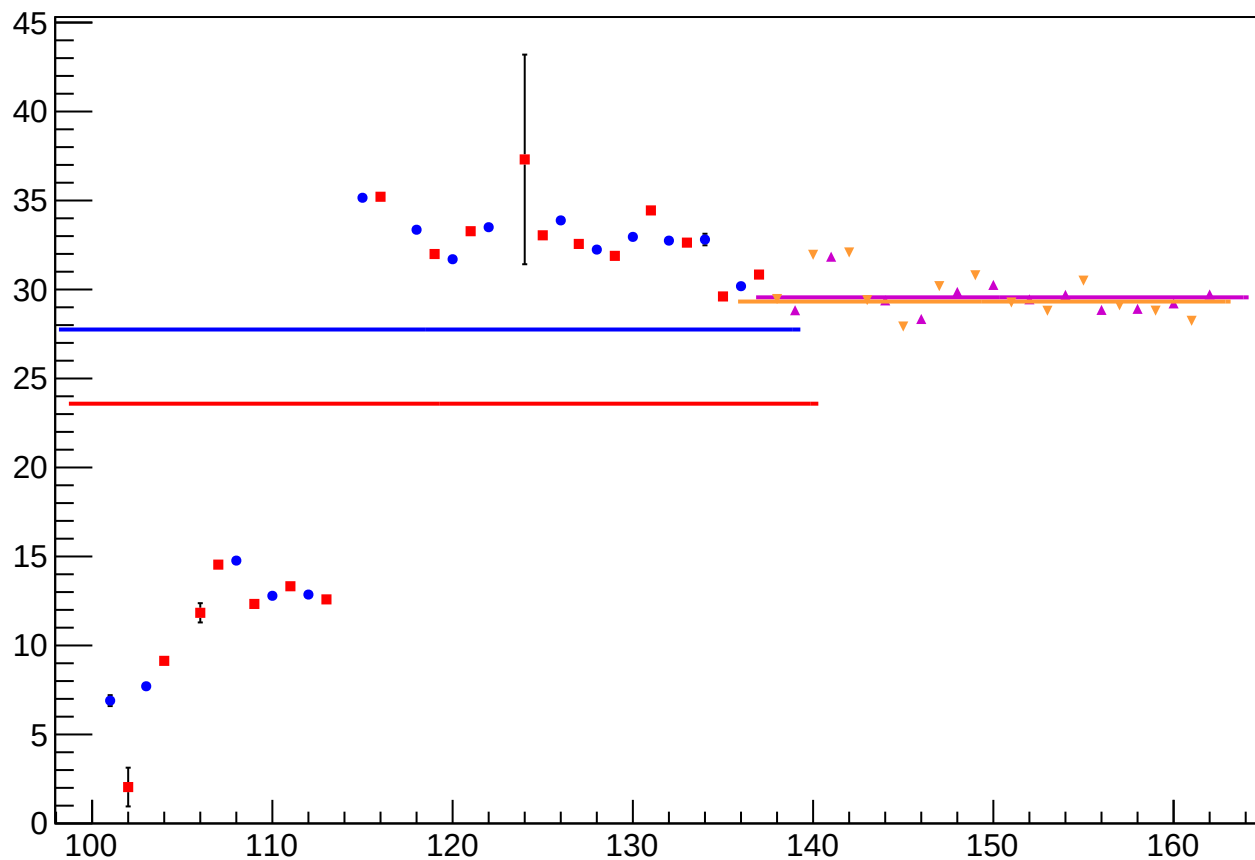
Left In:  $-6.479 \pm 0.006$   $\chi^2/\text{NDF}$ : 5248.3/11

+ sign  $-6.890 \pm 0.006$   $\chi^2/\text{NDF}$ : 40870.2/27

All:  $-6.564 \pm 0.004$   $\chi^2/\text{NDF}$ : 126089.7/57

- sign  $-6.312 \pm 0.005$   $\chi^2/\text{NDF}$ : 79384.3/29

# dit\_sam3\_4eY\_slope vs Slug



Right In: 27.752 $\pm$ 0.015  $\chi^2$ /NDF: 332926.6/14

Left Out: 29.324 $\pm$ 0.013  $\chi^2$ /NDF: 8248.8/12

Right Out: 23.585 $\pm$ 0.014  $\chi^2$ /NDF: 539616.2/17

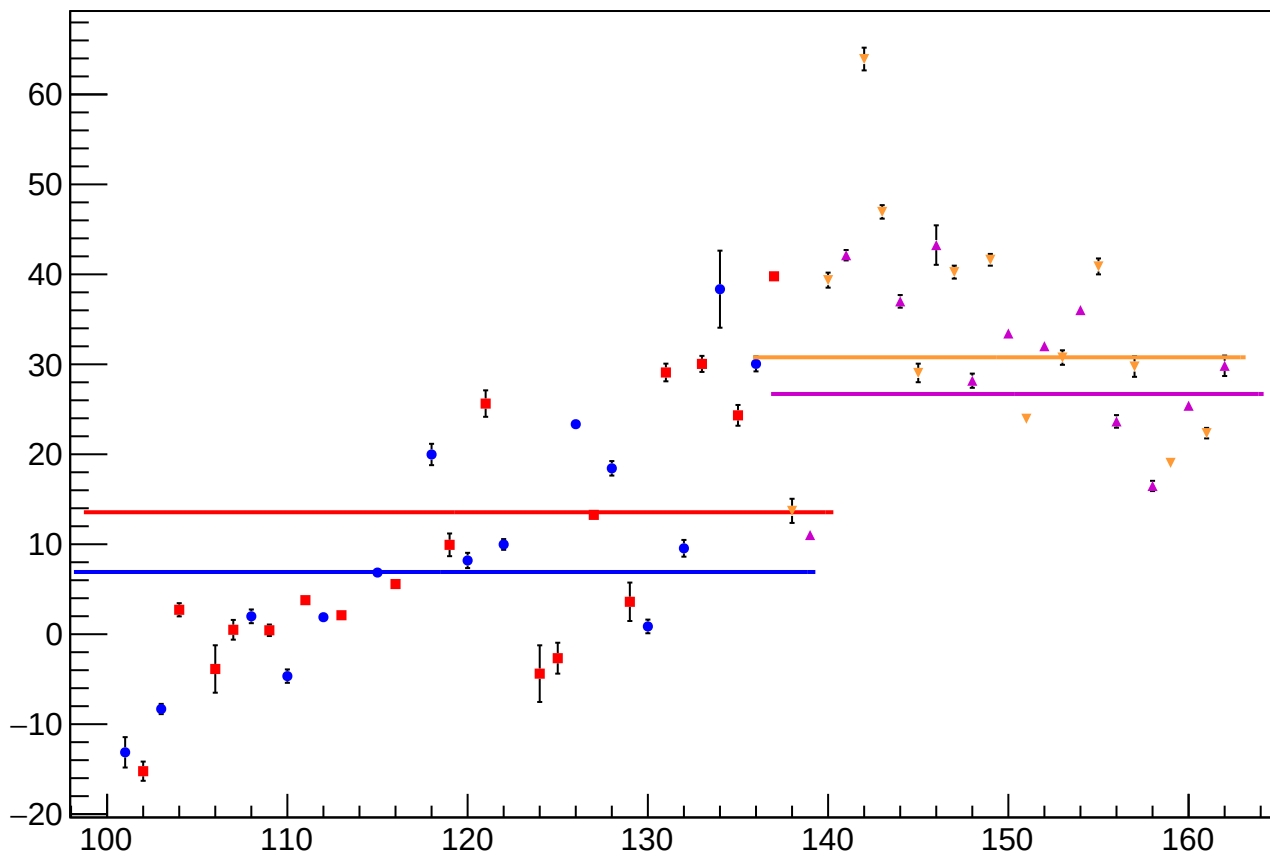
Left In: 29.560 $\pm$ 0.011  $\chi^2$ /NDF: 2960.8/11

+ sign 28.667 $\pm$ 0.010  $\chi^2$ /NDF: 347534.8/27

All: 27.847 $\pm$ 0.006  $\chi^2$ /NDF: 1017793.4/57

- sign 27.204 $\pm$ 0.009  $\chi^2$ /NDF: 657566.5/29

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $30.780 \pm 0.202$   $\chi^2/\text{NDF}: 3037.5/12$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

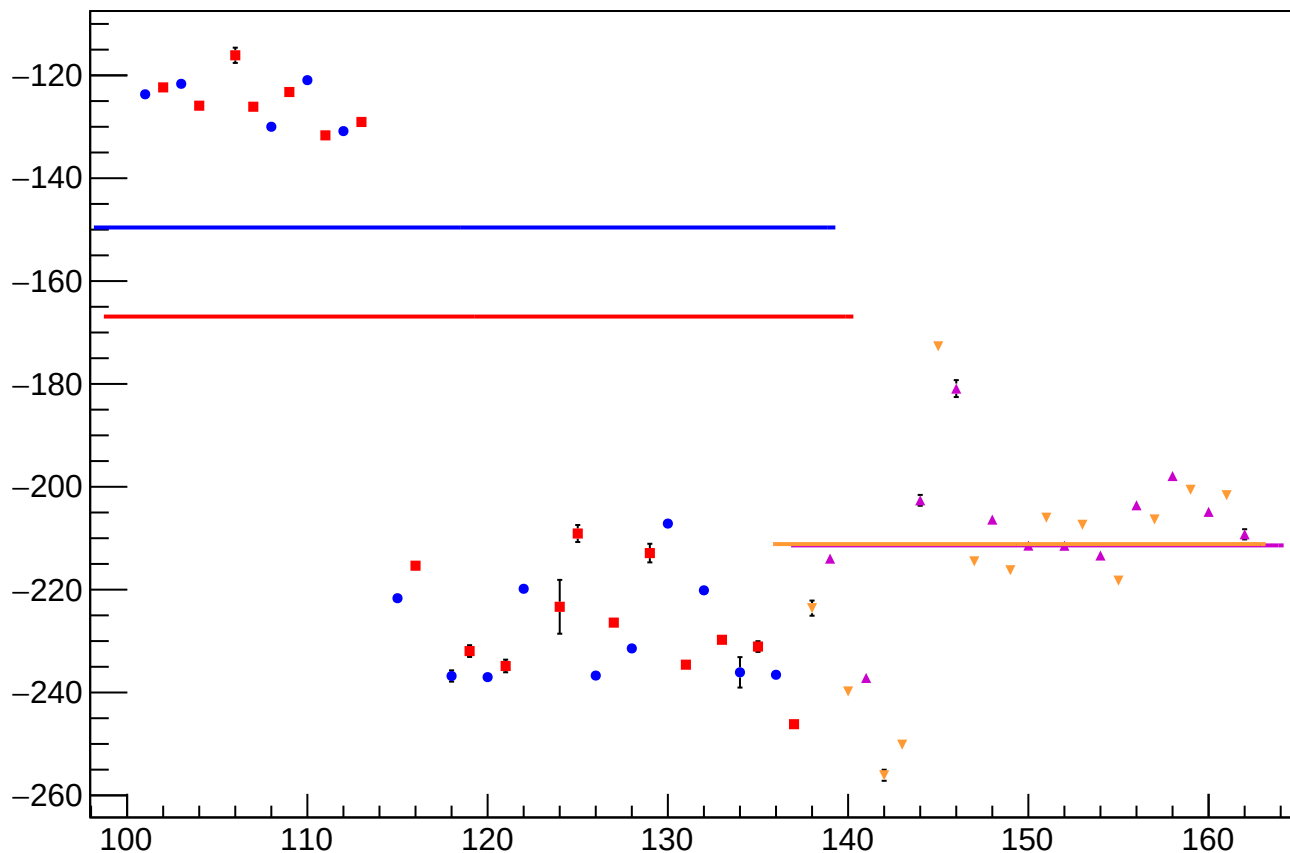
Left In:  $26.703 \pm 0.147$   $\chi^2/\text{NDF}: 4631.8/11$

+ sign  $17.270 \pm 0.133$   $\chi^2/\text{NDF}: 14467.9/27$

All:  $18.990 \pm 0.082$   $\chi^2/\text{NDF}: 35070.7/57$

- sign  $20.031 \pm 0.103$   $\chi^2/\text{NDF}: 20333.6/29$

# dit\_sam4\_4eX\_slope vs Slug



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}$ : 195091.5/14

Left Out:  $-211.138 \pm 0.163$   $\chi^2/\text{NDF}$ : 11811.9/12

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}$ : 295489.9/17

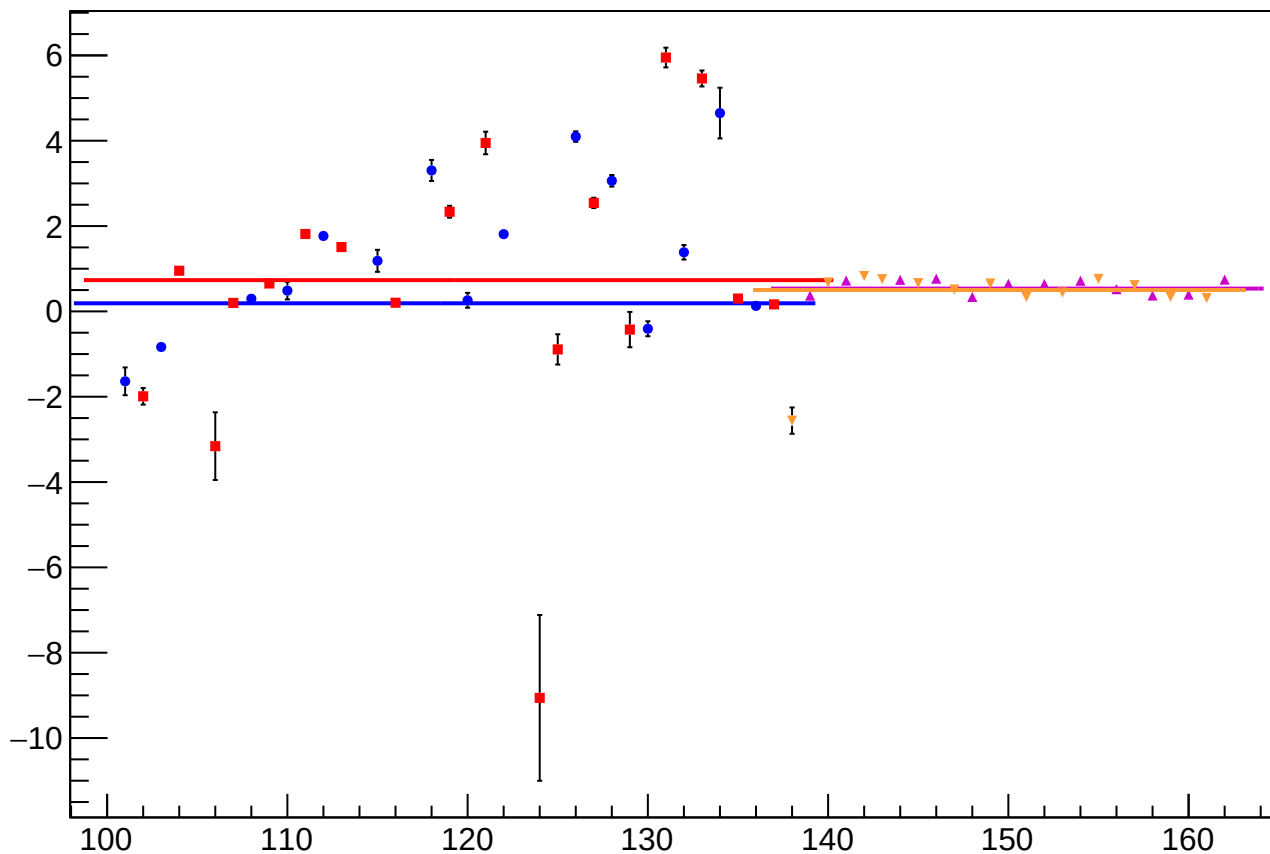
Left In:  $-211.395 \pm 0.123$   $\chi^2/\text{NDF}$ : 5138.6/11

+ sign  $-166.695 \pm 0.086$   $\chi^2/\text{NDF}$ : 310447.0/27

All:  $-176.550 \pm 0.058$   $\chi^2/\text{NDF}$ : 713483.3/57

- sign  $-184.695 \pm 0.078$   $\chi^2/\text{NDF}$ : 378888.8/29

# dit\_sam4\_11X12X\_slope vs Slug



Right In:  $0.190 \pm 0.009$   $\chi^2/\text{NDF}: 2727.5/14$

Left Out:  $0.502 \pm 0.003$   $\chi^2/\text{NDF}: 3339.1/12$

Right Out:  $0.733 \pm 0.020$   $\chi^2/\text{NDF}: 2666.9/17$

Left In:  $0.535 \pm 0.002$   $\chi^2/\text{NDF}: 4031.9/11$

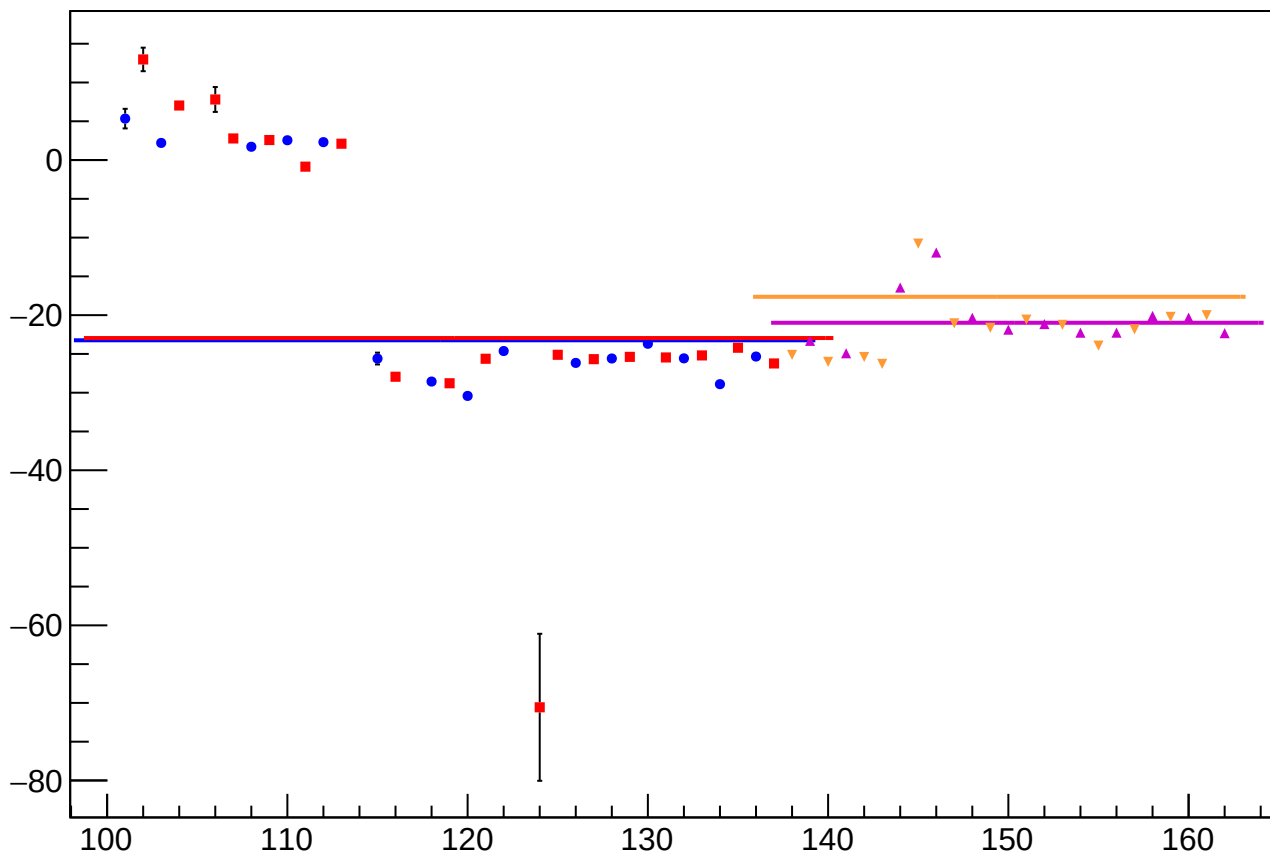
+ sign  $0.465 \pm 0.003$   $\chi^2/\text{NDF}: 7226.1/27$

All:  $0.508 \pm 0.002$   $\chi^2/\text{NDF}: 14383.3/57$

- sign  $0.538 \pm 0.002$   $\chi^2/\text{NDF}: 6797.8/29$



# dit\_sam4\_4aY\_slope vs Slug



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}$ : 103102.8/14

Left Out:  $-17.633 \pm 0.016$   $\chi^2/\text{NDF}$ : 121206.4/12

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}$ : 108039.1/17

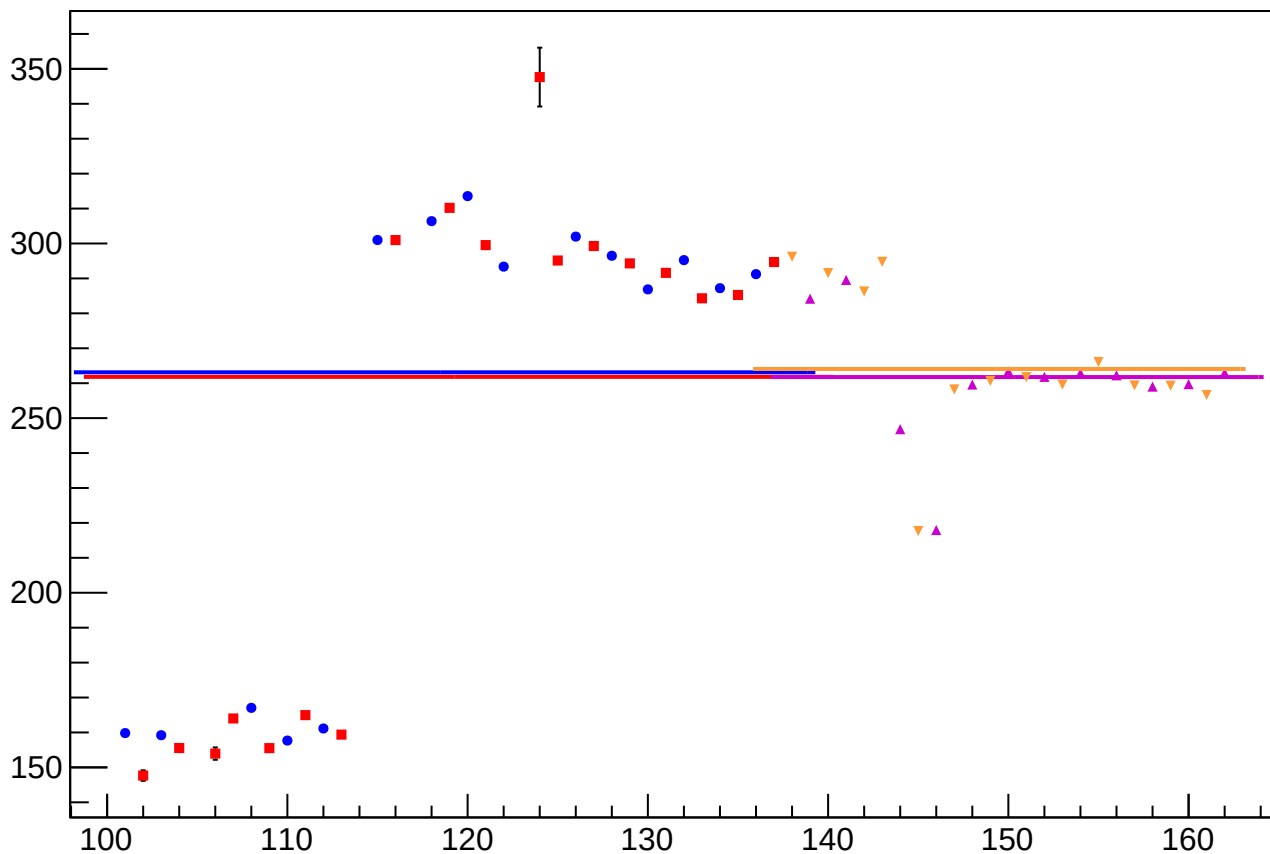
Left In:  $-20.982 \pm 0.016$   $\chi^2/\text{NDF}$ : 10240.8/11

+ sign  $-19.231 \pm 0.013$   $\chi^2/\text{NDF}$ : 260979.6/27

All:  $-20.386 \pm 0.009$   $\chi^2/\text{NDF}$ : 399114.4/57

- sign  $-21.552 \pm 0.013$   $\chi^2/\text{NDF}$ : 122799.6/29

# dit\_sam4\_4eY\_slope vs Slug



Right In: 263.120 $\pm$ 0.069  $\chi^2$ /NDF: 692885.4/14

Left Out: 264.078 $\pm$ 0.039  $\chi^2$ /NDF: 193915.7/12

Right Out: 261.814 $\pm$ 0.060  $\chi^2$ /NDF: 1006189.6/17

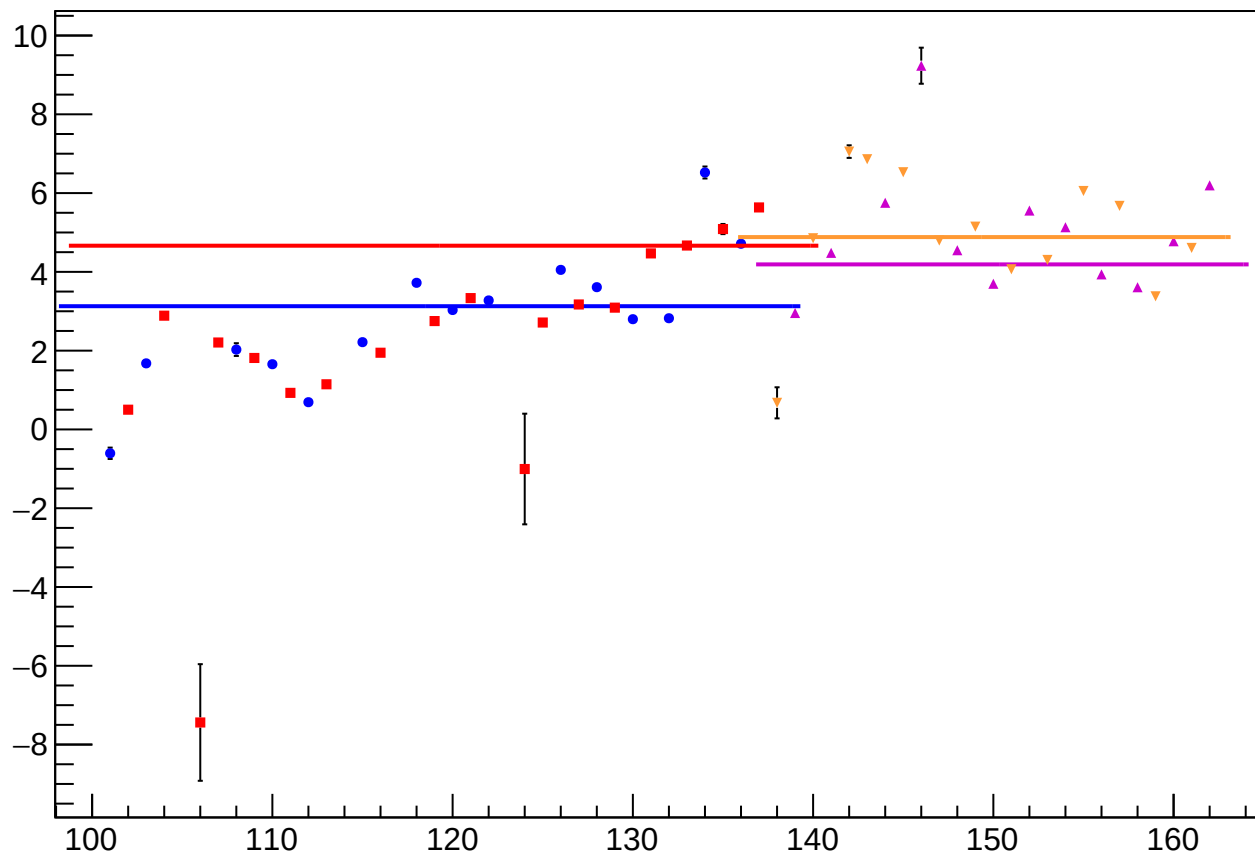
Left In: 261.758 $\pm$ 0.033  $\chi^2$ /NDF: 36473.2/11

+ sign 263.844 $\pm$ 0.034  $\chi^2$ /NDF: 886946.3/27

All: 262.648 $\pm$ 0.022  $\chi^2$ /NDF: 1931739.0/57

- sign 261.771 $\pm$ 0.029  $\chi^2$ /NDF: 1042663.5/29

# dit\_sam5\_4aX\_slope vs Slug



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}$ : 5667.8/14

Left Out:  $4.883 \pm 0.017$   $\chi^2/\text{NDF}$ : 2143.7/12

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}$ : 66862.5/17

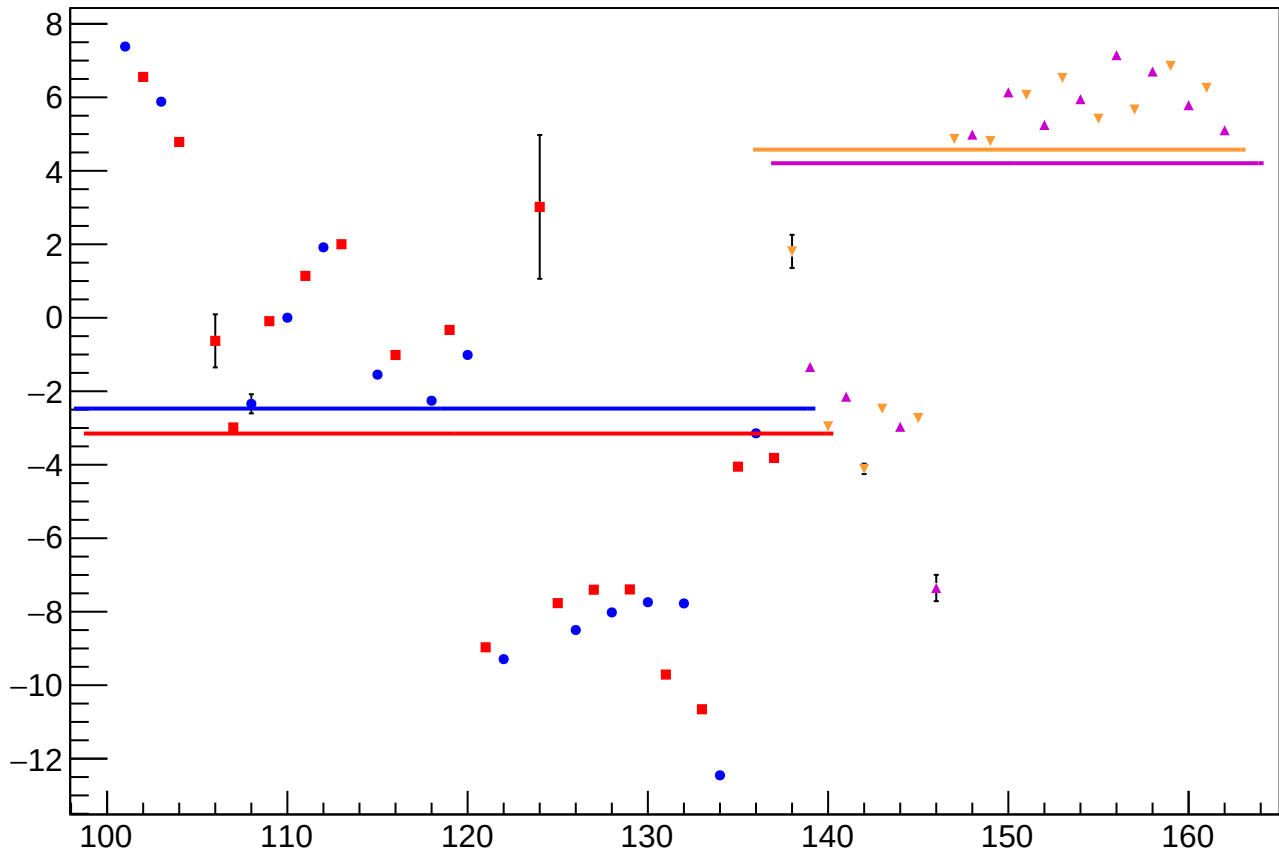
Left In:  $4.190 \pm 0.016$   $\chi^2/\text{NDF}$ : 3097.1/11

+ sign  $3.938 \pm 0.012$   $\chi^2/\text{NDF}$ : 13531.4/27

All:  $4.462 \pm 0.005$   $\chi^2/\text{NDF}$ : 86857.2/57

- sign  $4.599 \pm 0.006$   $\chi^2/\text{NDF}$ : 70734.3/29

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $4.577 \pm 0.014$   $\chi^2/\text{NDF}: 38126.0/12$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

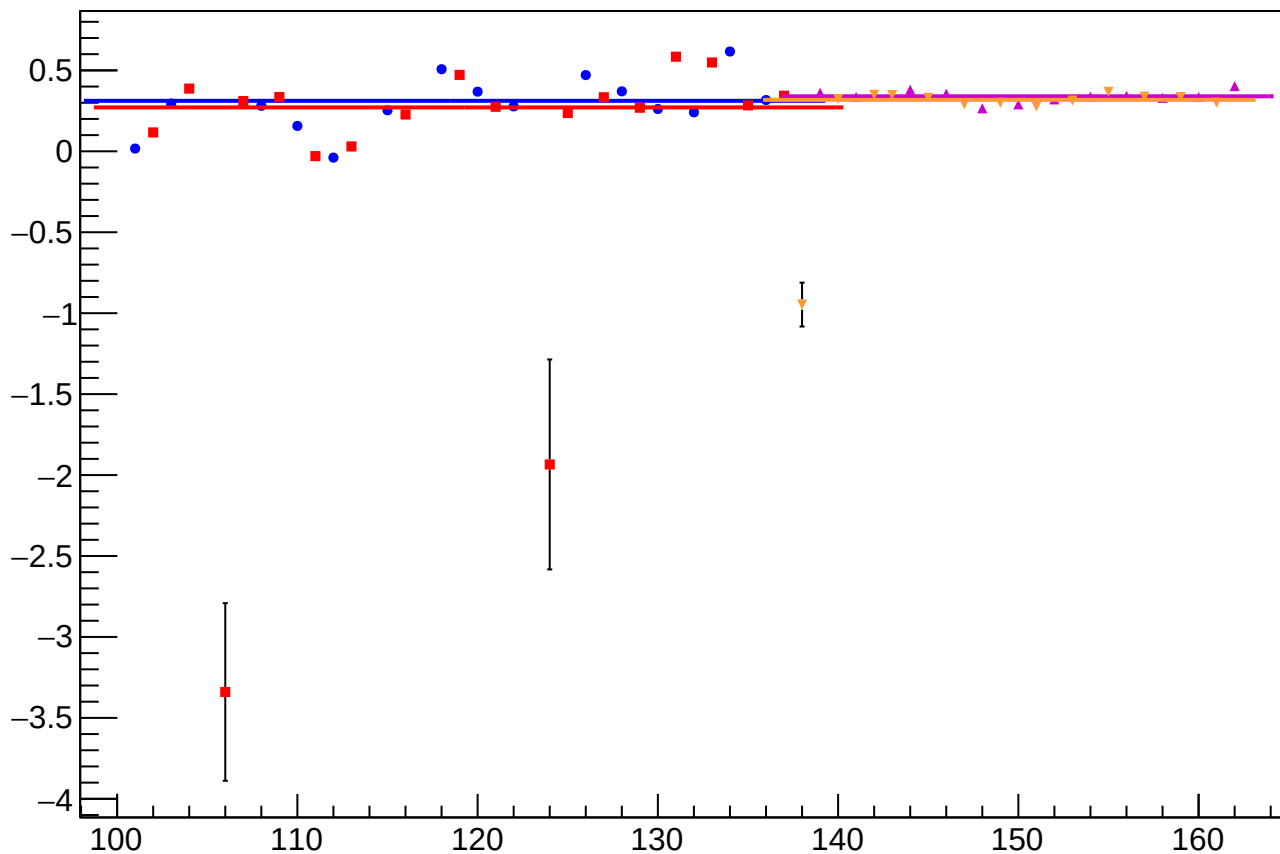
Left In:  $4.206 \pm 0.013$   $\chi^2/\text{NDF}: 62464.6/11$

+ sign  $1.105 \pm 0.010$   $\chi^2/\text{NDF}: 407383.7/27$

All:  $-0.669 \pm 0.005$   $\chi^2/\text{NDF}: 991562.4/57$

- sign  $-1.437 \pm 0.007$   $\chi^2/\text{NDF}: 538154.8/29$

# dit\_sam5\_11X12X\_slope vs Slug



Right In: 0.312 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 1319.2/14

Left Out: 0.318 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 1295.2/12

Right Out: 0.271 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 6144.7/17

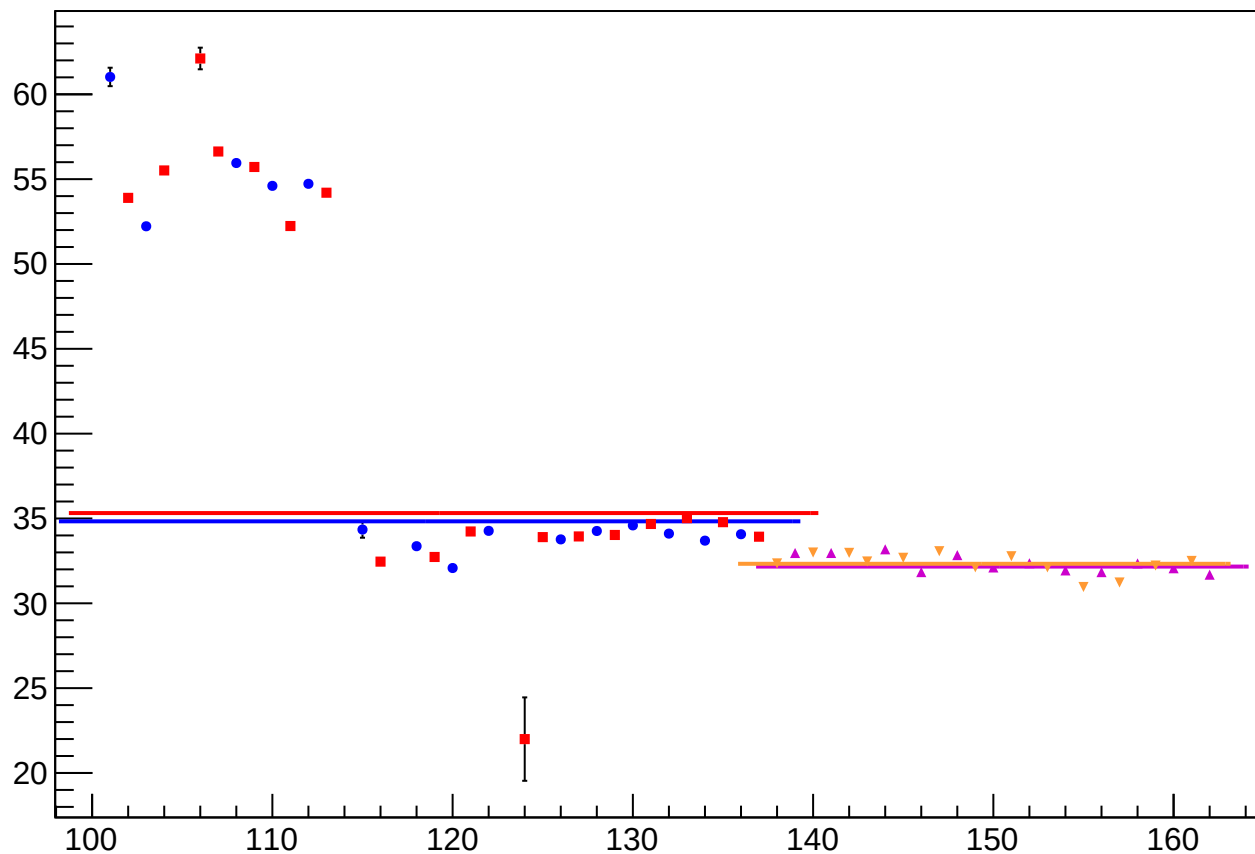
Left In: 0.340 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 2765.0/11

+ sign 0.317 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 2631.6/27

All: 0.325 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 12854.5/57

- sign 0.333 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 9868.4/29

# dit\_sam5\_4aY\_slope vs Slug



Right In:  $34.832 \pm 0.009$   $\chi^2/\text{NDF}$ : 245568.8/14

Left Out:  $32.329 \pm 0.005$   $\chi^2/\text{NDF}$ : 3543.5/12

Right Out:  $35.319 \pm 0.010$   $\chi^2/\text{NDF}$ : 261492.0/17

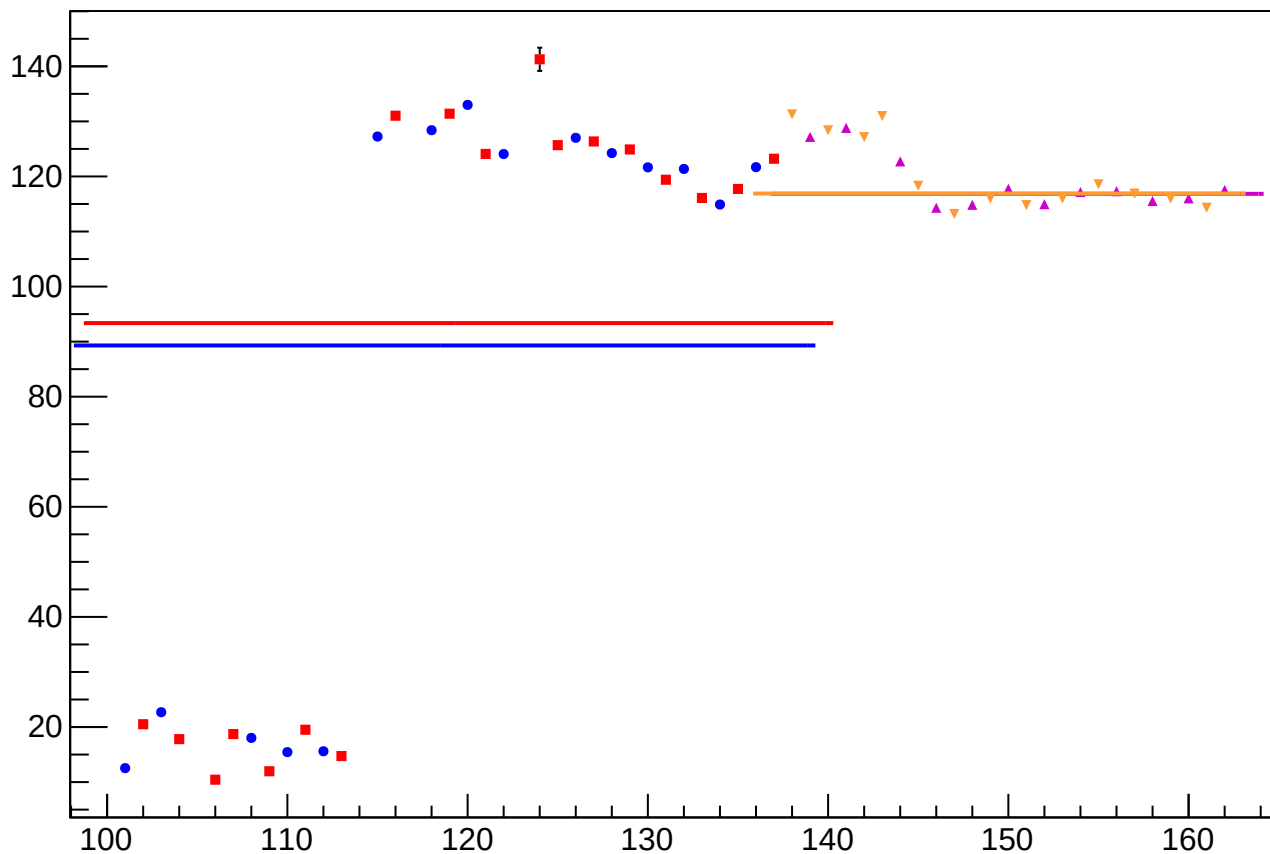
Left In:  $32.165 \pm 0.004$   $\chi^2/\text{NDF}$ : 6850.7/11

+ sign  $32.931 \pm 0.004$   $\chi^2/\text{NDF}$ : 313138.6/27

All:  $32.792 \pm 0.003$   $\chi^2/\text{NDF}$ : 667892.8/57

- sign  $32.669 \pm 0.004$   $\chi^2/\text{NDF}$ : 352719.8/29

# dit\_sam5\_4eY\_slope vs Slug



Right In: 89.302 $\pm$ 0.027  $\chi^2$ /NDF: 3034485.1/14

Left Out: 116.895 $\pm$ 0.010  $\chi^2$ /NDF:119245.2/12

Right Out: 93.367 $\pm$ 0.030  $\chi^2$ /NDF: 2852493.6/17

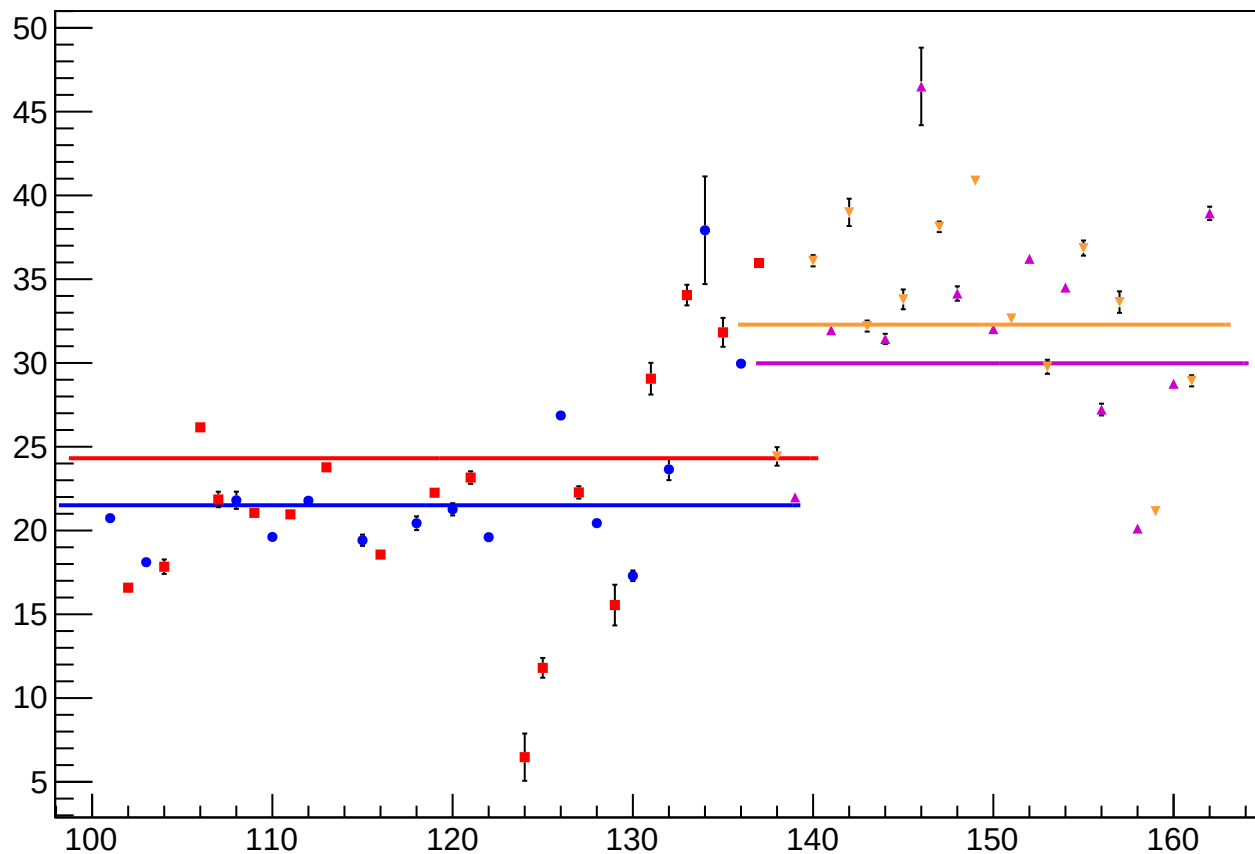
Left In: 116.842 $\pm$ 0.010  $\chi^2$ /NDF:41676.2/11

+ sign 113.509 $\pm$ 0.010  $\chi^2$ /NDF: 4040964.5/27

All: 114.122 $\pm$ 0.007  $\chi^2$ /NDF: 7500696.6/57

- sign 114.672 $\pm$ 0.009  $\chi^2$ /NDF: 3452014.2/29

# dit\_sam6\_4aX\_slope vs Slug



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}$ : 2963.0/14

Left Out:  $32.288 \pm 0.100$   $\chi^2/\text{NDF}$ : 3658.5/12

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}$ : 14295.4/17

Left In:  $29.981 \pm 0.080$   $\chi^2/\text{NDF}$ : 4583.3/11

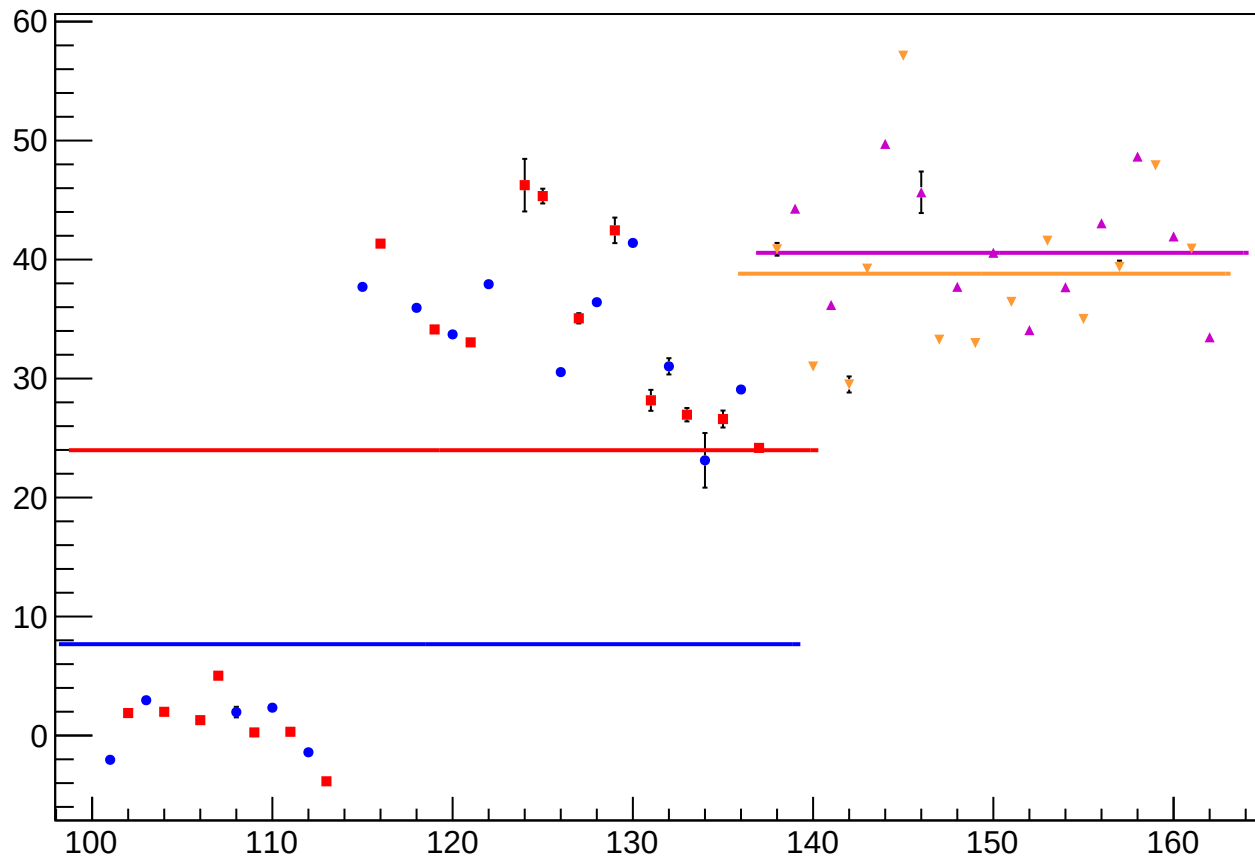
+ sign  $25.201 \pm 0.059$   $\chi^2/\text{NDF}$ : 14236.2/27

All:  $25.867 \pm 0.037$   $\chi^2/\text{NDF}$ : 36615.5/57

- sign  $26.298 \pm 0.047$   $\chi^2/\text{NDF}$ : 22166.9/29



# dit\_sam6\_4eX\_slope vs Slug



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}$ : 96442.5/14

Left Out:  $38.813 \pm 0.082$   $\chi^2/\text{NDF}$ : 6203.9/12

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}$ : 110564.0/17

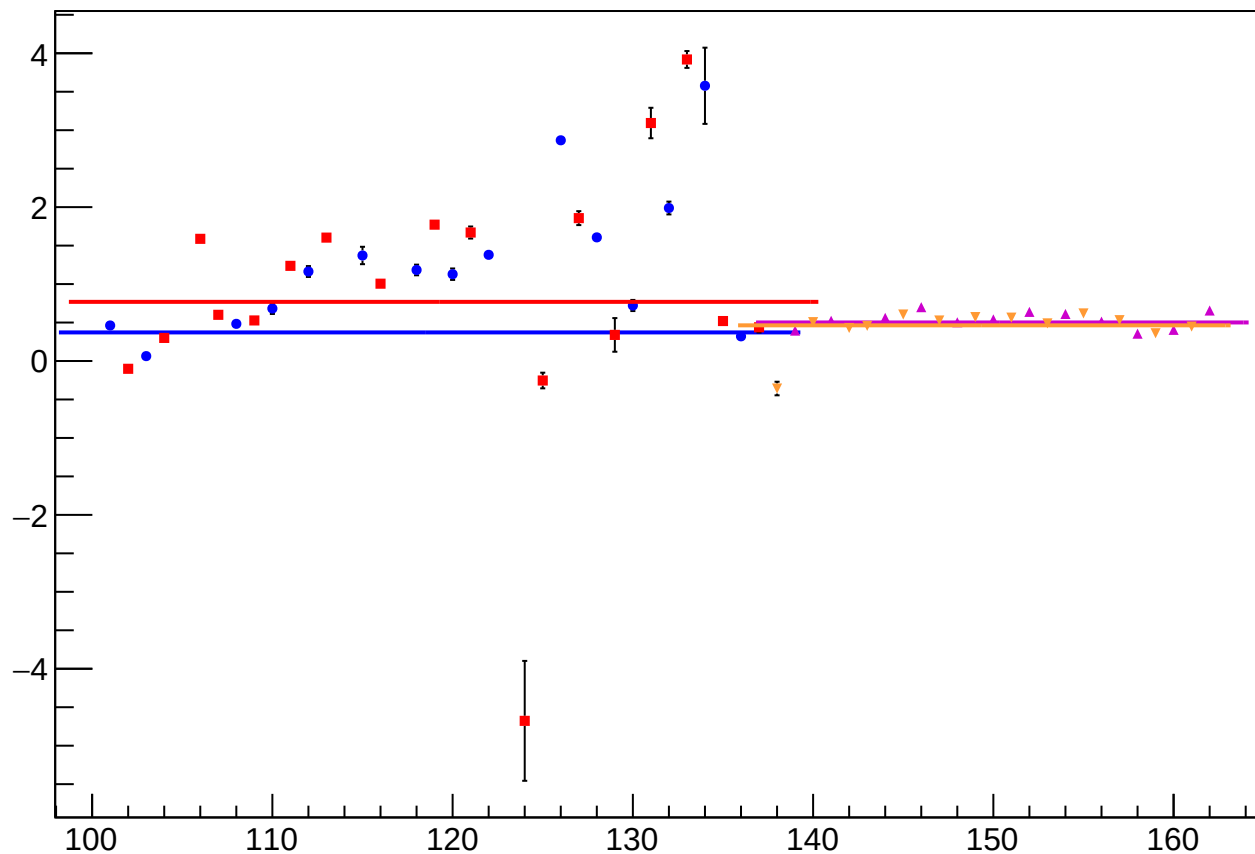
Left In:  $40.566 \pm 0.065$   $\chi^2/\text{NDF}$ : 4107.1/11

+ sign  $14.977 \pm 0.040$   $\chi^2/\text{NDF}$ : 213760.4/27

All:  $23.858 \pm 0.008$   $\chi^2/\text{NDF}$ : 444074.1/57

- sign  $24.232 \pm 0.008$   $\chi^2/\text{NDF}$ : 177834.1/29

# dit\_sam6\_11X12X\_slope vs Slug



Right In:  $0.372 \pm 0.004$   $\chi^2/\text{NDF}$ : 4748.7/14

Left Out:  $0.464 \pm 0.001$   $\chi^2/\text{NDF}$ : 4643.2/12

Right Out:  $0.769 \pm 0.007$   $\chi^2/\text{NDF}$ : 4137.5/17

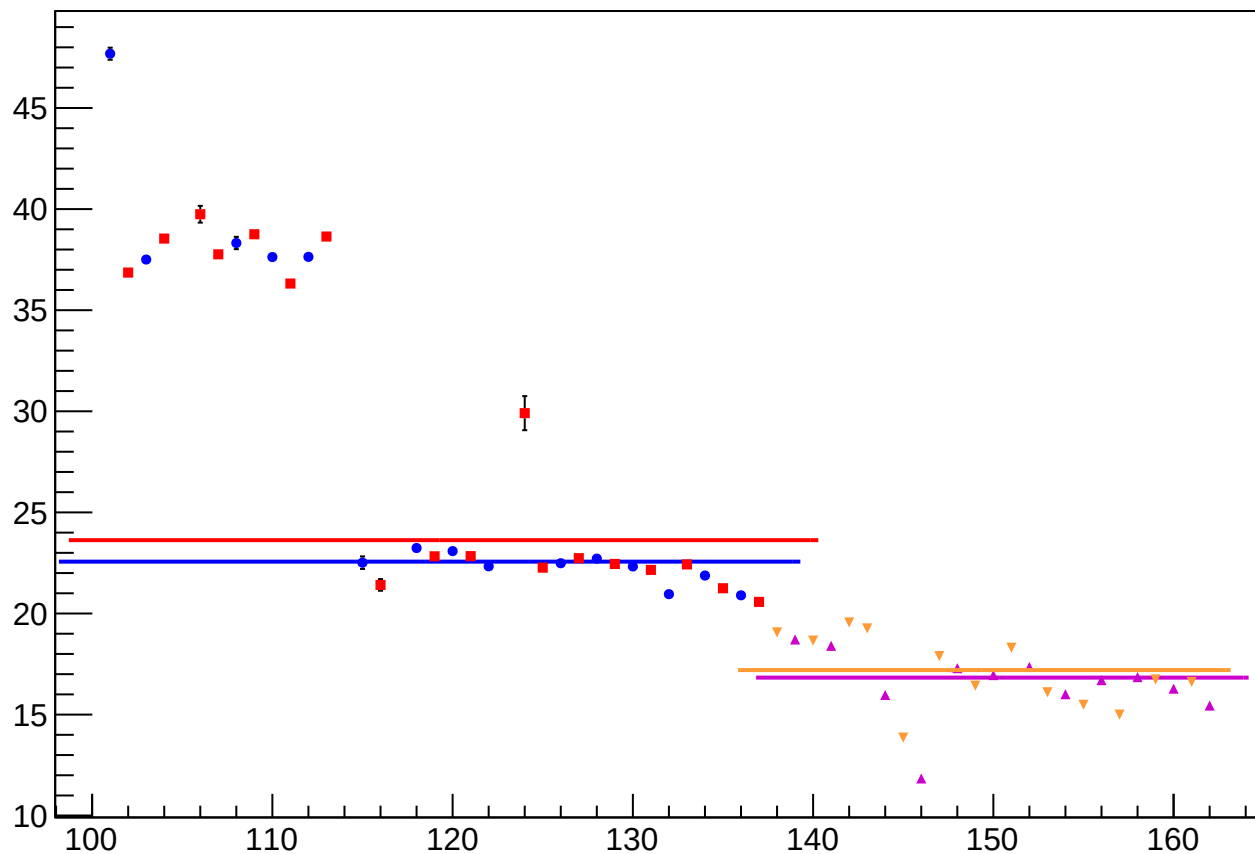
Left In:  $0.501 \pm 0.001$   $\chi^2/\text{NDF}$ : 8500.2/11

+ sign  $0.456 \pm 0.001$   $\chi^2/\text{NDF}$ : 9801.8/27

All:  $0.484 \pm 0.001$   $\chi^2/\text{NDF}$ : 24826.0/57

- sign  $0.509 \pm 0.001$   $\chi^2/\text{NDF}$ : 14084.1/29

# dit\_sam6\_4aY\_slope vs Slug



Right In: 22.565 $\pm$ 0.010  $\chi^2$ /NDF: 92859.1/14

Left Out: 17.202 $\pm$ 0.007  $\chi^2$ /NDF: 44941.5/12

Right Out: 23.627 $\pm$ 0.011  $\chi^2$ /NDF: 123194.1/17

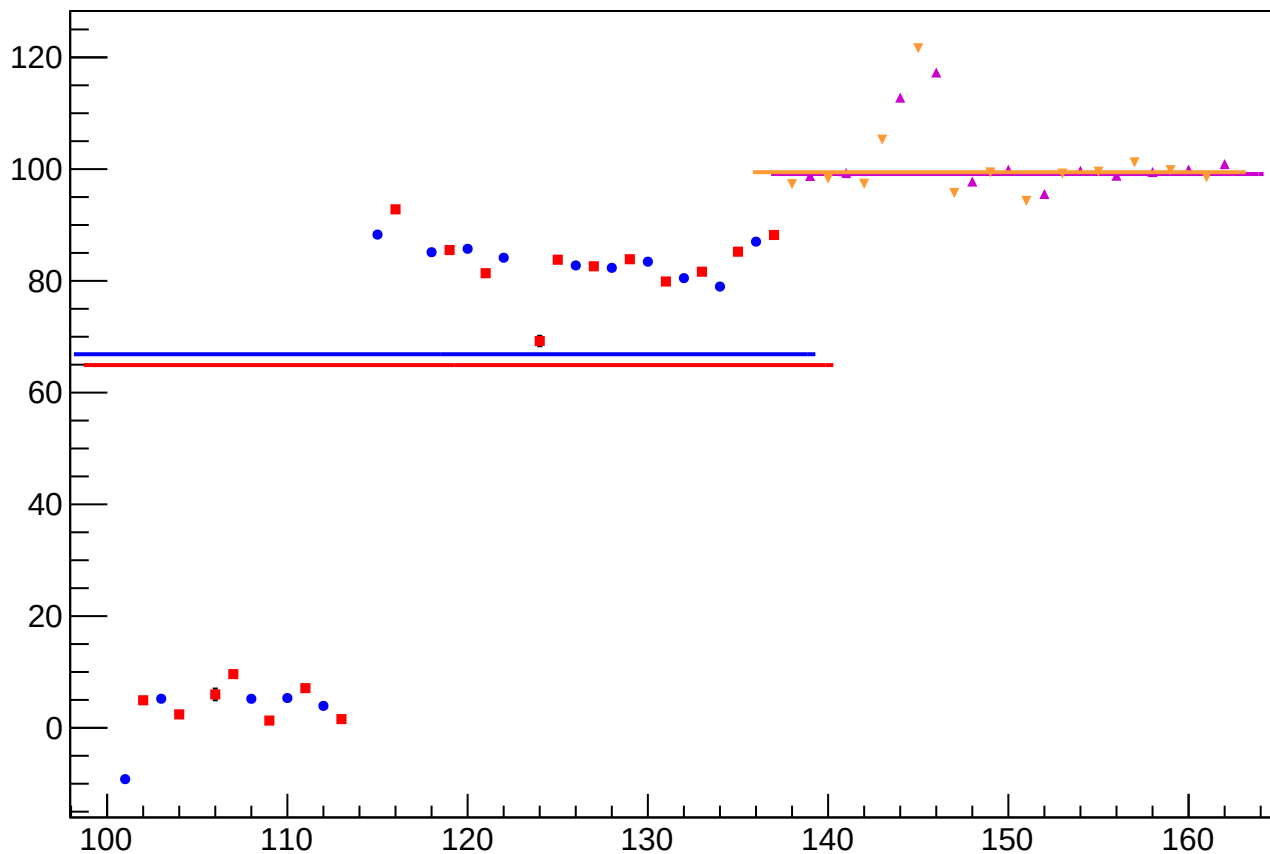
Left In: 16.829 $\pm$ 0.008  $\chi^2$ /NDF: 14545.0/11

+ sign 19.049 $\pm$ 0.006  $\chi^2$ /NDF: 319964.0/27

All: 19.083 $\pm$ 0.004  $\chi^2$ /NDF: 700929.4/57

- sign 19.123 $\pm$ 0.007  $\chi^2$ /NDF: 380896.1/29

# dit\_sam6\_4eY\_slope vs Slug



Right In:  $66.866 \pm 0.027$   $\chi^2/\text{NDF}$ : 1494212.3/14

Left Out:  $99.447 \pm 0.014$   $\chi^2/\text{NDF}$ : 69198.8/12

Right Out:  $64.929 \pm 0.030$   $\chi^2/\text{NDF}$ : 1334580.7/17

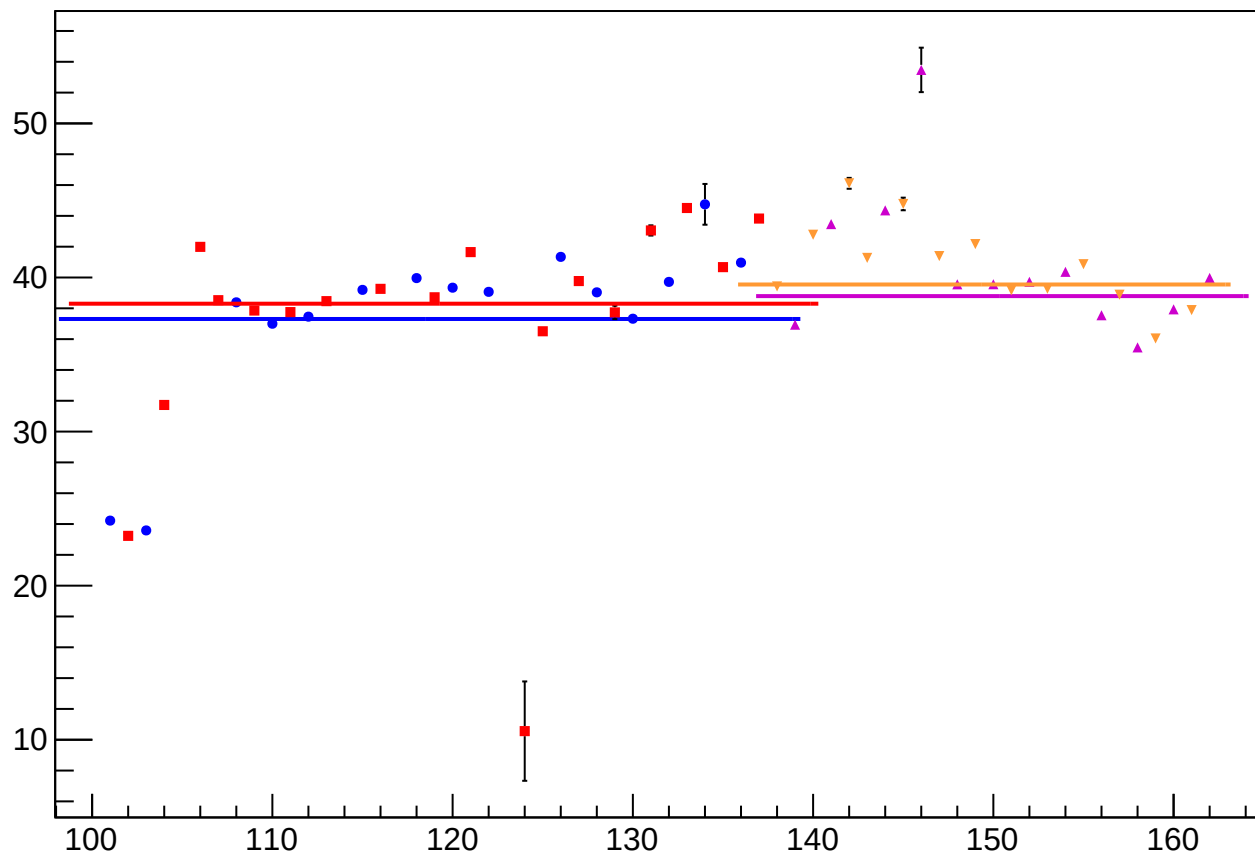
Left In:  $99.120 \pm 0.014$   $\chi^2/\text{NDF}$ : 16391.7/11

+ sign  $92.611 \pm 0.012$   $\chi^2/\text{NDF}$ : 2708889.4/27

All:  $92.910 \pm 0.009$   $\chi^2/\text{NDF}$ : 5155052.3/57

- sign  $93.206 \pm 0.012$   $\chi^2/\text{NDF}$ : 2445006.6/29

# dit\_sam7\_4aX\_slope vs Slug



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $39.546 \pm 0.038$   $\chi^2/\text{NDF}: 3876.1/12$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

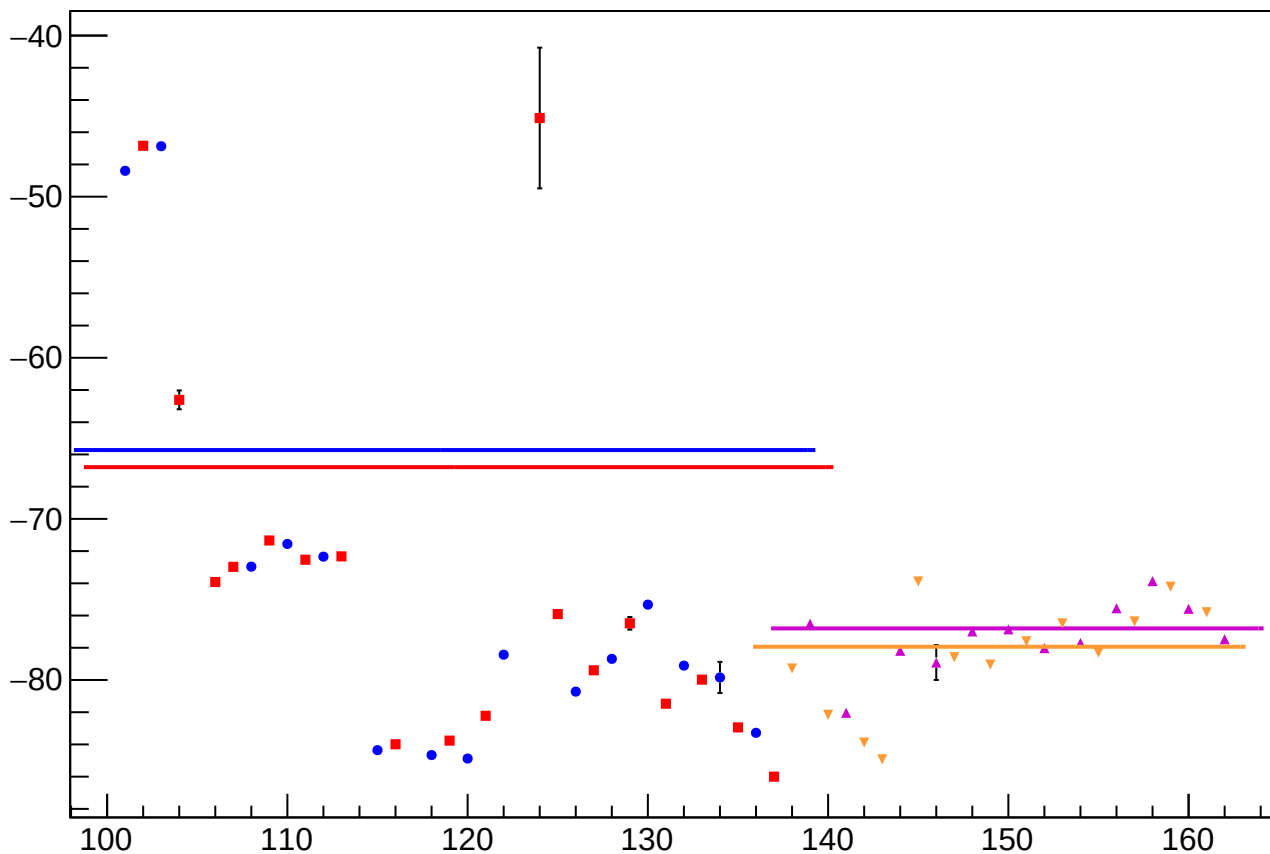
Left In:  $38.793 \pm 0.029$   $\chi^2/\text{NDF}: 5329.5/11$

+ sign  $37.912 \pm 0.020$   $\chi^2/\text{NDF}: 65993.9/27$

All:  $38.236 \pm 0.013$   $\chi^2/\text{NDF}: 90821.2/57$

- sign  $38.467 \pm 0.017$   $\chi^2/\text{NDF}: 24365.2/29$

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$

Left Out:  $-77.937 \pm 0.032$   $\chi^2/\text{NDF}: 11192.1/12$

Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$

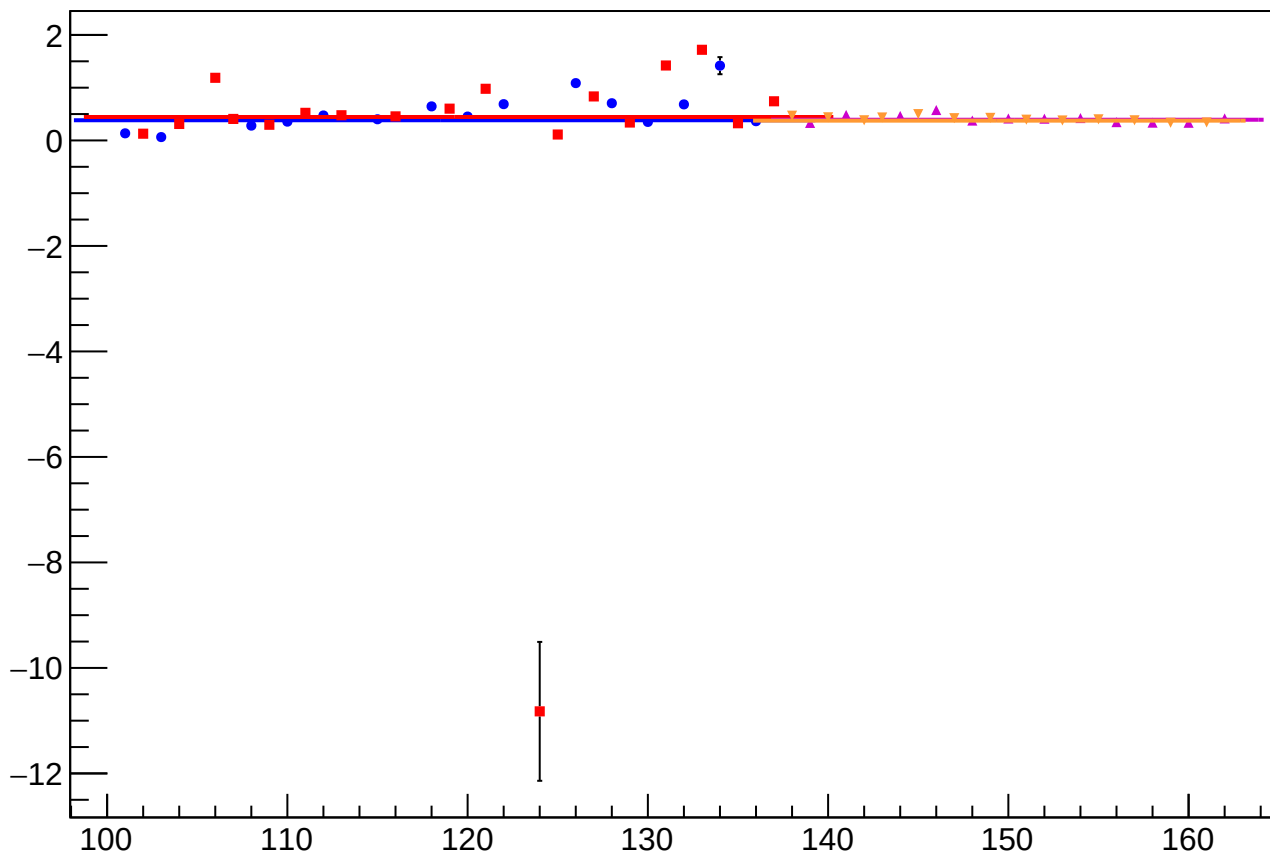
Left In:  $-76.798 \pm 0.023$   $\chi^2/\text{NDF}: 4753.0/11$

+ sign  $-68.441 \pm 0.015$   $\chi^2/\text{NDF}: 1030908.2/27$

All:  $-69.335 \pm 0.010$   $\chi^2/\text{NDF}: 1980905.6/57$

- sign  $-70.020 \pm 0.013$   $\chi^2/\text{NDF}: 943599.5/29$

# dit\_sam7\_11X12X\_slope vs Slug



Right In:  $0.383 \pm 0.002$   $\chi^2/\text{NDF}$ : 8173.1/14

Left Out:  $0.375 \pm 0.001$   $\chi^2/\text{NDF}$ : 5350.9/12

Right Out:  $0.444 \pm 0.004$   $\chi^2/\text{NDF}$ : 2786.2/17

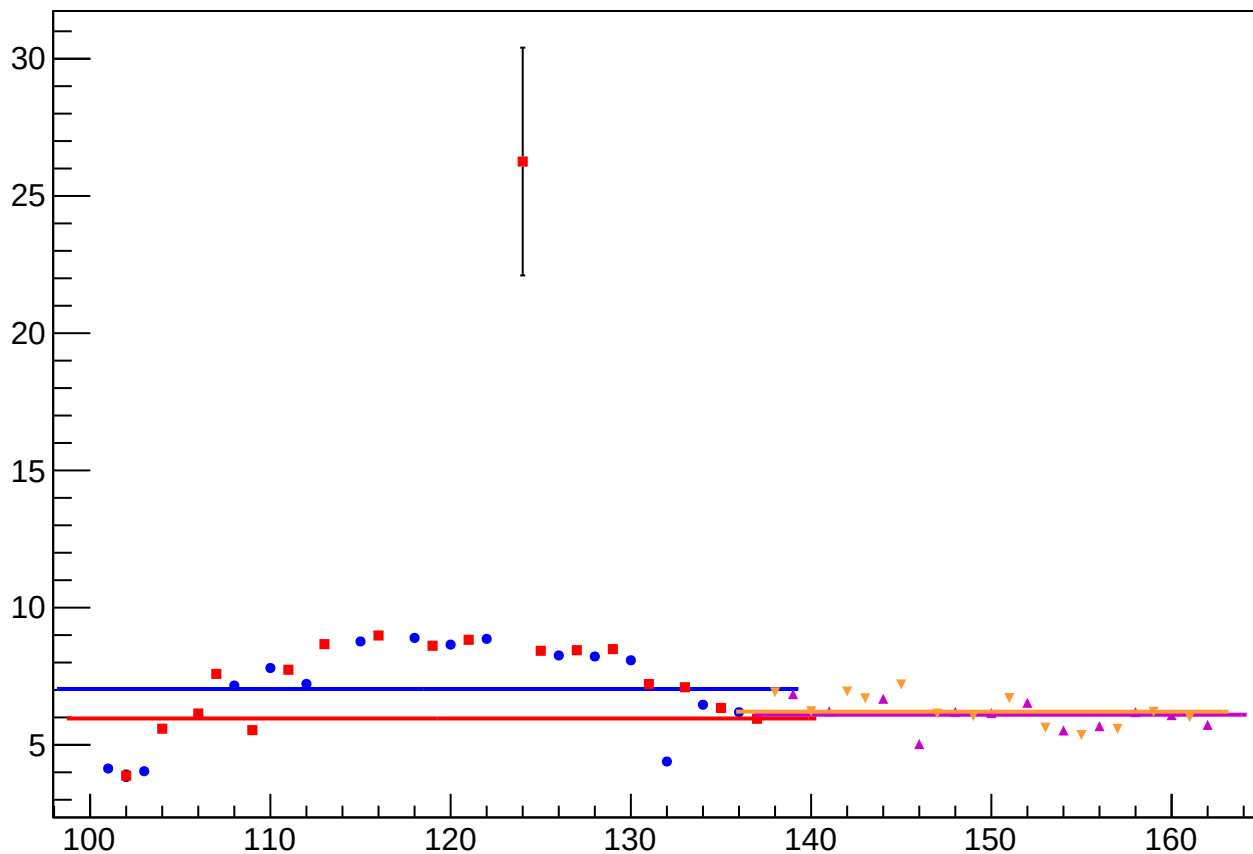
Left In:  $0.392 \pm 0.001$   $\chi^2/\text{NDF}$ : 6300.8/11

+ sign  $0.376 \pm 0.001$   $\chi^2/\text{NDF}$ : 13538.4/27

All:  $0.385 \pm 0.000$   $\chi^2/\text{NDF}$ : 23334.2/57

- sign  $0.394 \pm 0.001$   $\chi^2/\text{NDF}$ : 9282.5/29

# dit\_sam7\_4aY\_slope vs Slug



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}$ : 69905.1/14

Left Out:  $6.211 \pm 0.002$   $\chi^2/\text{NDF}$ : 25470.6/12

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}$ : 168372.8/17

Left In:  $6.100 \pm 0.002$   $\chi^2/\text{NDF}$ : 28749.6/11

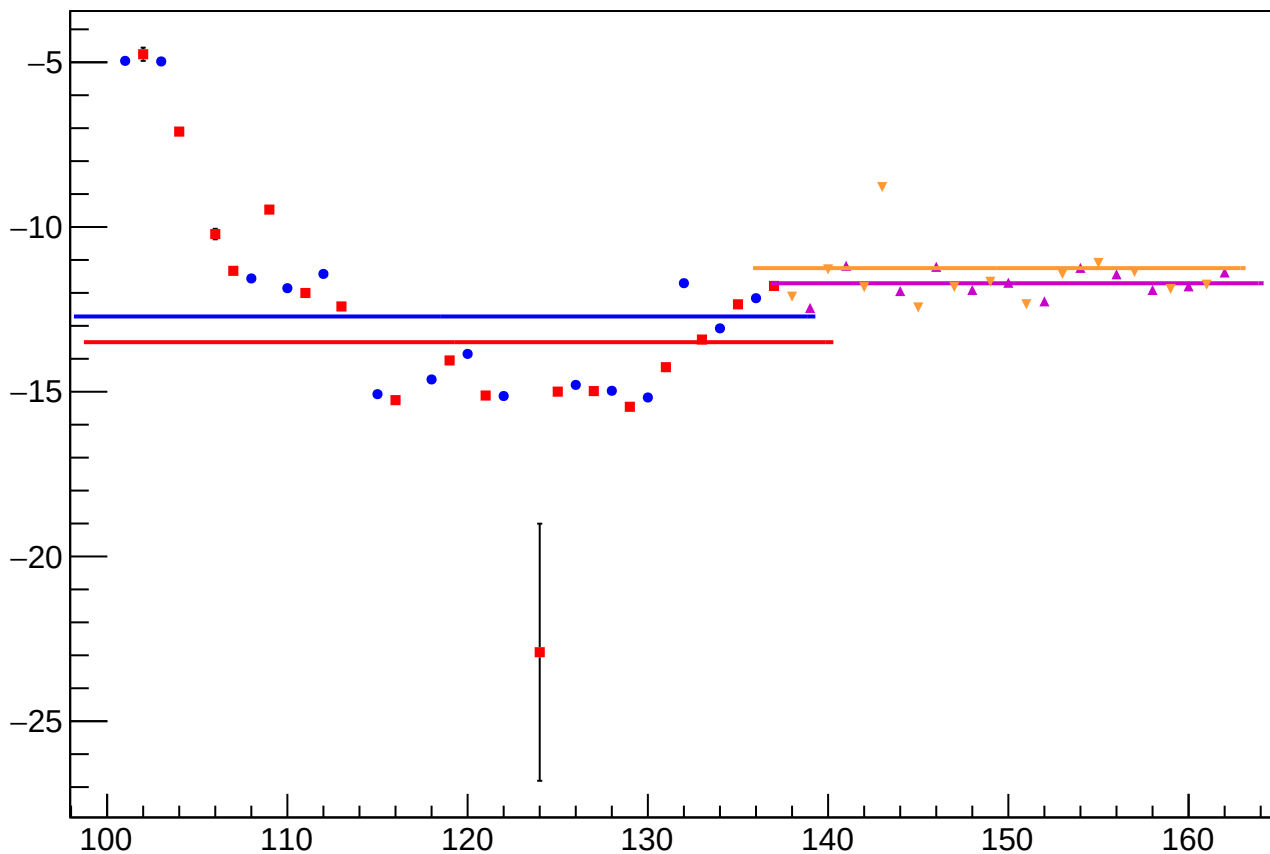
+ sign  $6.344 \pm 0.002$   $\chi^2/\text{NDF}$ : 123330.5/27

All:  $5.986 \pm 0.000$   $\chi^2/\text{NDF}$ : 367371.6/57

- sign  $5.969 \pm 0.000$   $\chi^2/\text{NDF}$ : 203345.6/29



# dit\_sam7\_4eY\_slope vs Slug



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}$ : 85219.4/14

Left Out:  $-11.248 \pm 0.003$   $\chi^2/\text{NDF}$ : 196216.2/12

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}$ : 55753.8/17

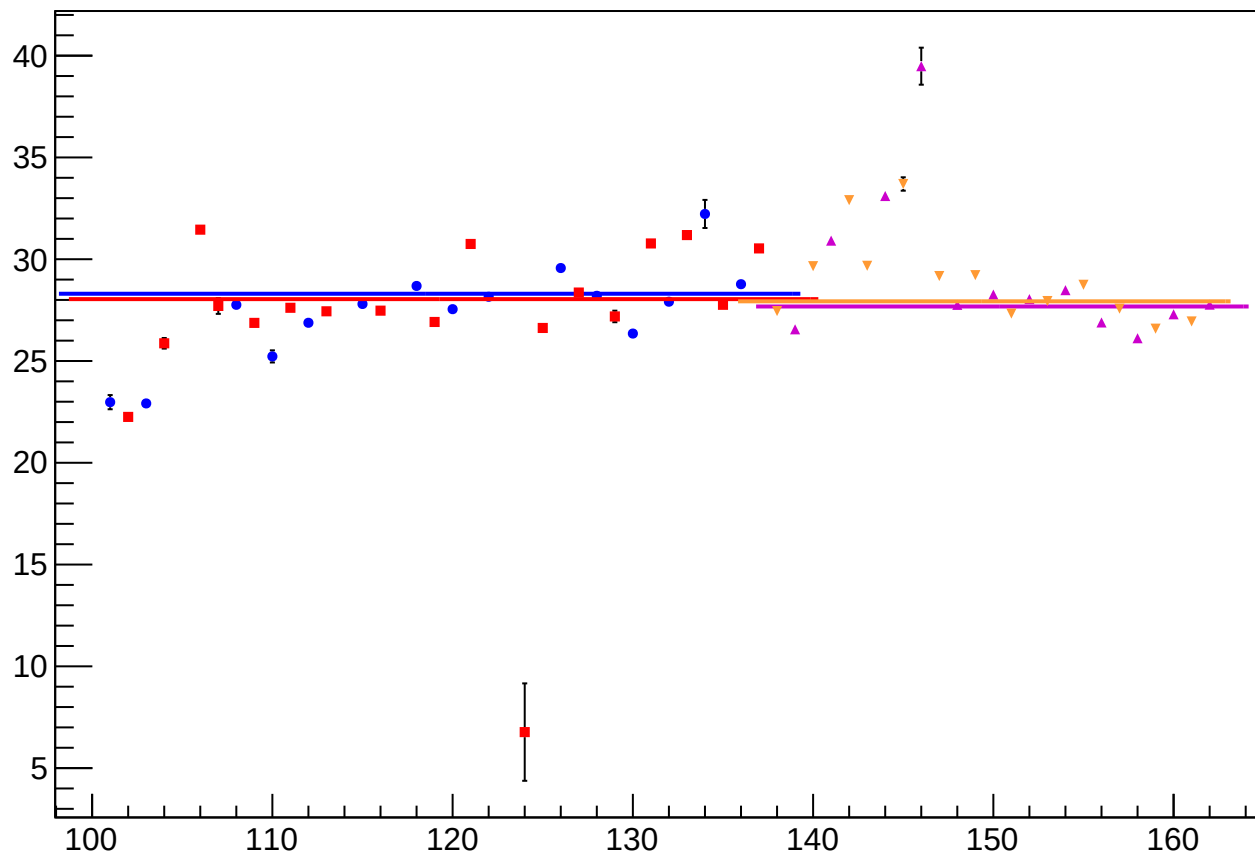
Left In:  $-11.707 \pm 0.002$   $\chi^2/\text{NDF}$ : 13038.9/11

+ sign  $-11.456 \pm 0.002$   $\chi^2/\text{NDF}$ : 326875.9/27

All:  $-11.731 \pm 0.002$   $\chi^2/\text{NDF}$ : 501196.7/57

- sign  $-11.962 \pm 0.002$   $\chi^2/\text{NDF}$ : 150027.2/29

# dit\_sam8\_4aX\_slope vs Slug



Right In:  $28.304 \pm 0.023$   $\chi^2/\text{NDF}: 3400.0/14$

Left Out:  $27.932 \pm 0.022$   $\chi^2/\text{NDF}: 3526.4/12$

Right Out:  $28.040 \pm 0.030$   $\chi^2/\text{NDF}: 2561.5/17$

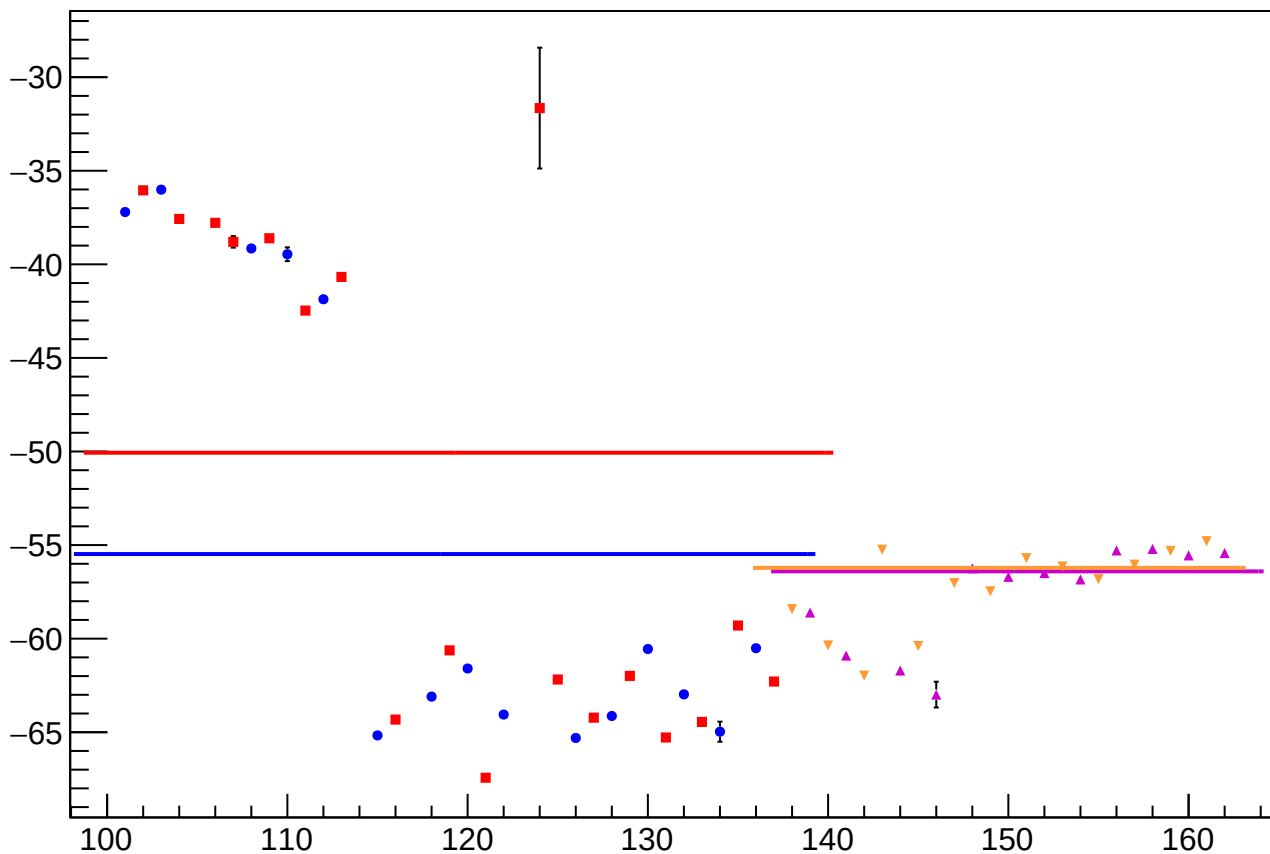
Left In:  $27.678 \pm 0.017$   $\chi^2/\text{NDF}: 4533.3/11$

+ sign  $28.109 \pm 0.016$   $\chi^2/\text{NDF}: 7062.6/27$

All:  $27.926 \pm 0.011$   $\chi^2/\text{NDF}: 14513.1/57$

- sign  $27.766 \pm 0.015$   $\chi^2/\text{NDF}: 7202.8/29$

# dit\_sam8\_4eX\_slope vs Slug



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}$ : 595140.3/14

Left Out:  $-56.217 \pm 0.019$   $\chi^2/\text{NDF}$ : 6256.2/12

Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}$ : 340098.3/17

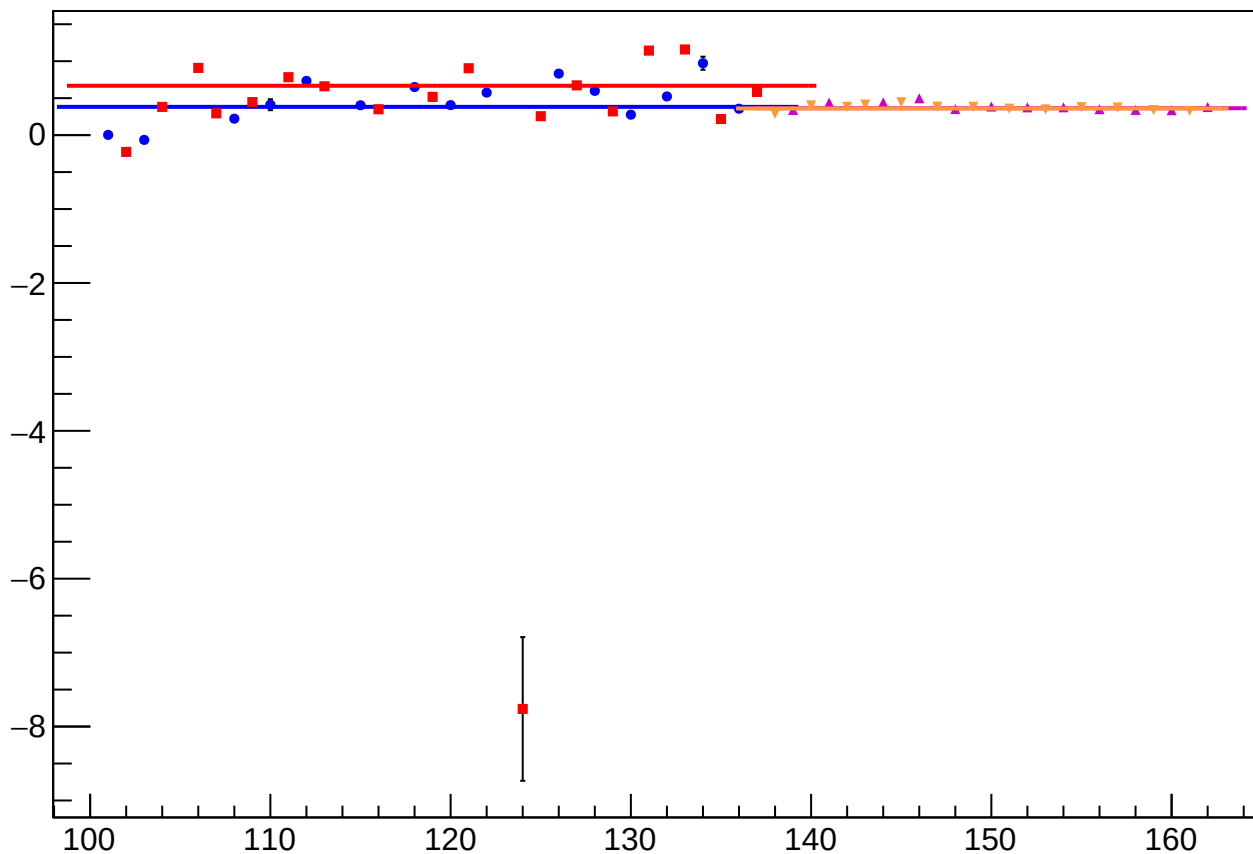
Left In:  $-56.405 \pm 0.014$   $\chi^2/\text{NDF}$ : 8058.4/11

+ sign  $-55.805 \pm 0.012$   $\chi^2/\text{NDF}$ : 602269.3/27

All:  $-55.209 \pm 0.009$   $\chi^2/\text{NDF}$ : 1009080.2/57

- sign  $-54.628 \pm 0.012$   $\chi^2/\text{NDF}$ : 402245.5/29

# dit\_sam8\_11X12X\_slope vs Slug



Right In: 0.382 $\pm$ 0.002  $\chi^2$ /NDF: 4595.8/14

Left Out: 0.361 $\pm$ 0.000  $\chi^2$ /NDF:3847.4/12

Right Out: 0.668 $\pm$ 0.005  $\chi^2$ /NDF: 3704.8/17

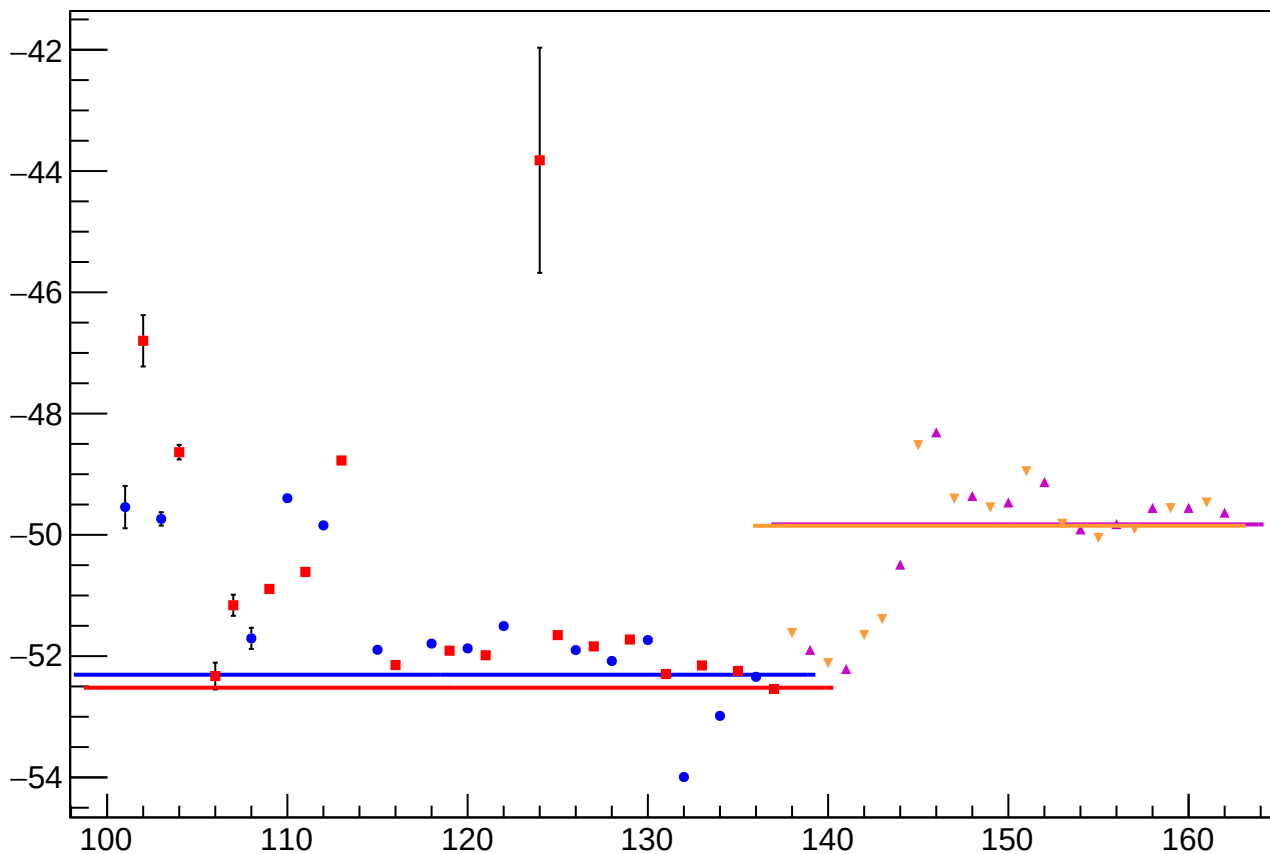
Left In: 0.364 $\pm$ 0.000  $\chi^2$ /NDF:4926.9/11

+ sign 0.362 $\pm$ 0.000  $\chi^2$ /NDF: 8612.9/27

All: 0.364 $\pm$ 0.000  $\chi^2$ /NDF: 21609.6/57

- sign 0.366 $\pm$ 0.000  $\chi^2$ /NDF: 12951.1/29

# dit\_sam8\_4aY\_slope vs Slug



Right In:  $-52.307 \pm 0.004$   $\chi^2/\text{NDF}$ : 25427.4/14

Left Out:  $-49.850 \pm 0.002$   $\chi^2/\text{NDF}$ : 165611.6/12

Right Out:  $-52.521 \pm 0.001$   $\chi^2/\text{NDF}$ : 14961.7/17

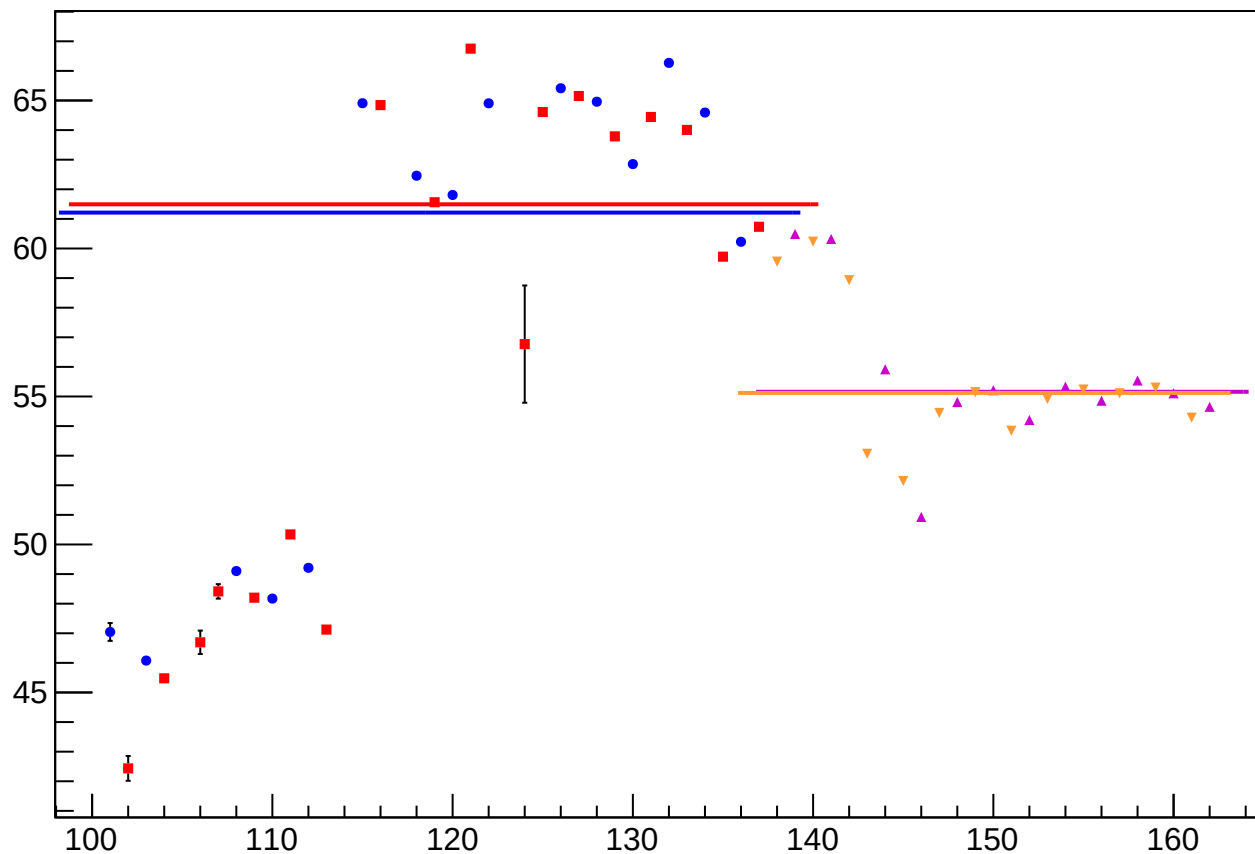
Left In:  $-49.828 \pm 0.002$   $\chi^2/\text{NDF}$ : 233165.4/11

+ sign  $-50.276 \pm 0.002$   $\chi^2/\text{NDF}$ : 522293.0/27

All:  $-51.327 \pm 0.001$   $\chi^2/\text{NDF}$ : 3232042.5/57

- sign  $-51.660 \pm 0.001$   $\chi^2/\text{NDF}$ : 2152431.5/29

# dit\_sam8\_4eY\_slope vs Slug



Right In: 61.213 $\pm$ 0.010  $\chi^2$ /NDF: 156624.5/14

Left Out: 55.120 $\pm$ 0.004  $\chi^2$ /NDF:199702.1/12

Right Out: 61.493 $\pm$ 0.007  $\chi^2$ /NDF: 243479.8/17

Left In: 55.159 $\pm$ 0.003  $\chi^2$ /NDF:61985.5/11

+ sign 55.851 $\pm$ 0.003  $\chi^2$ /NDF: 687812.5/27

All: 56.091 $\pm$ 0.002  $\chi^2$ /NDF: 1737484.3/57

- sign 56.249 $\pm$ 0.003  $\chi^2$ /NDF: 1041575.8/29

# 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

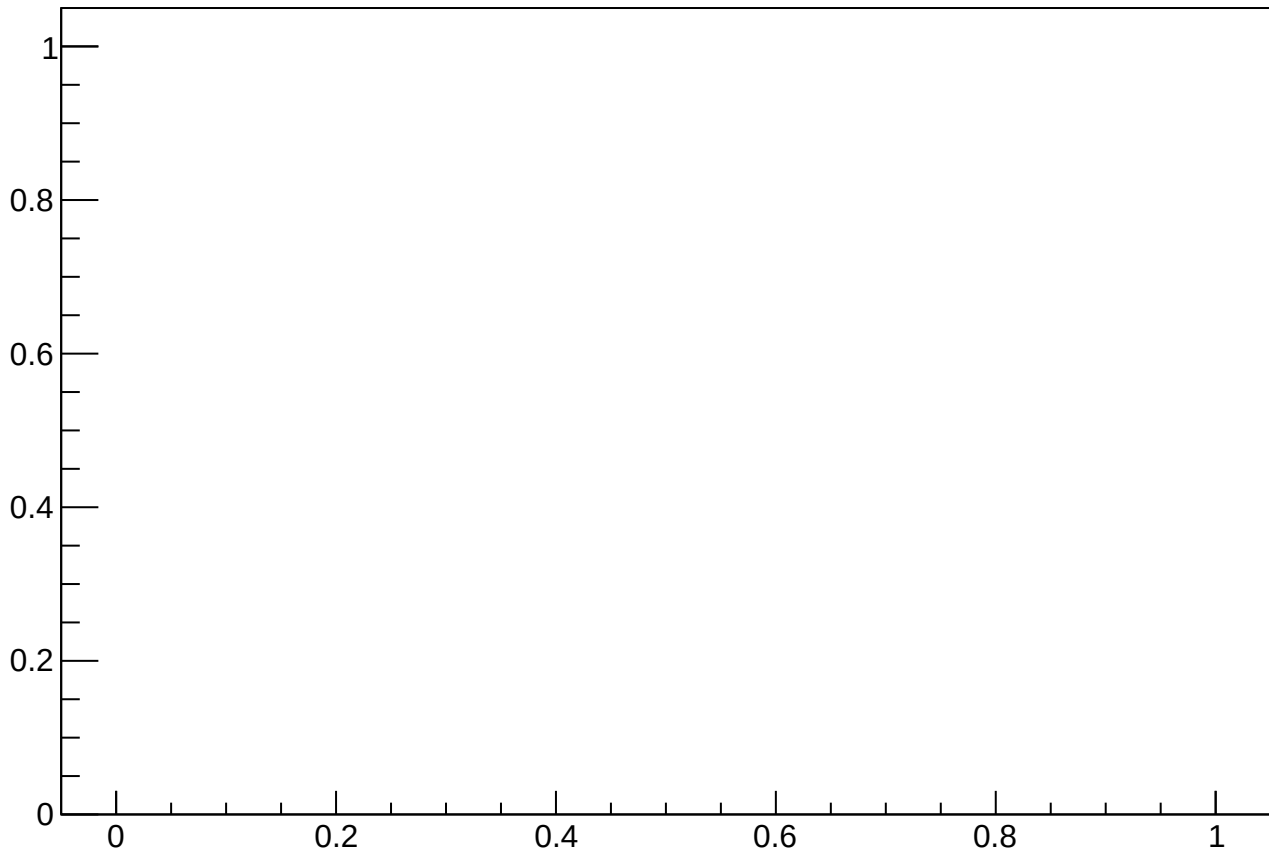
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_usr\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

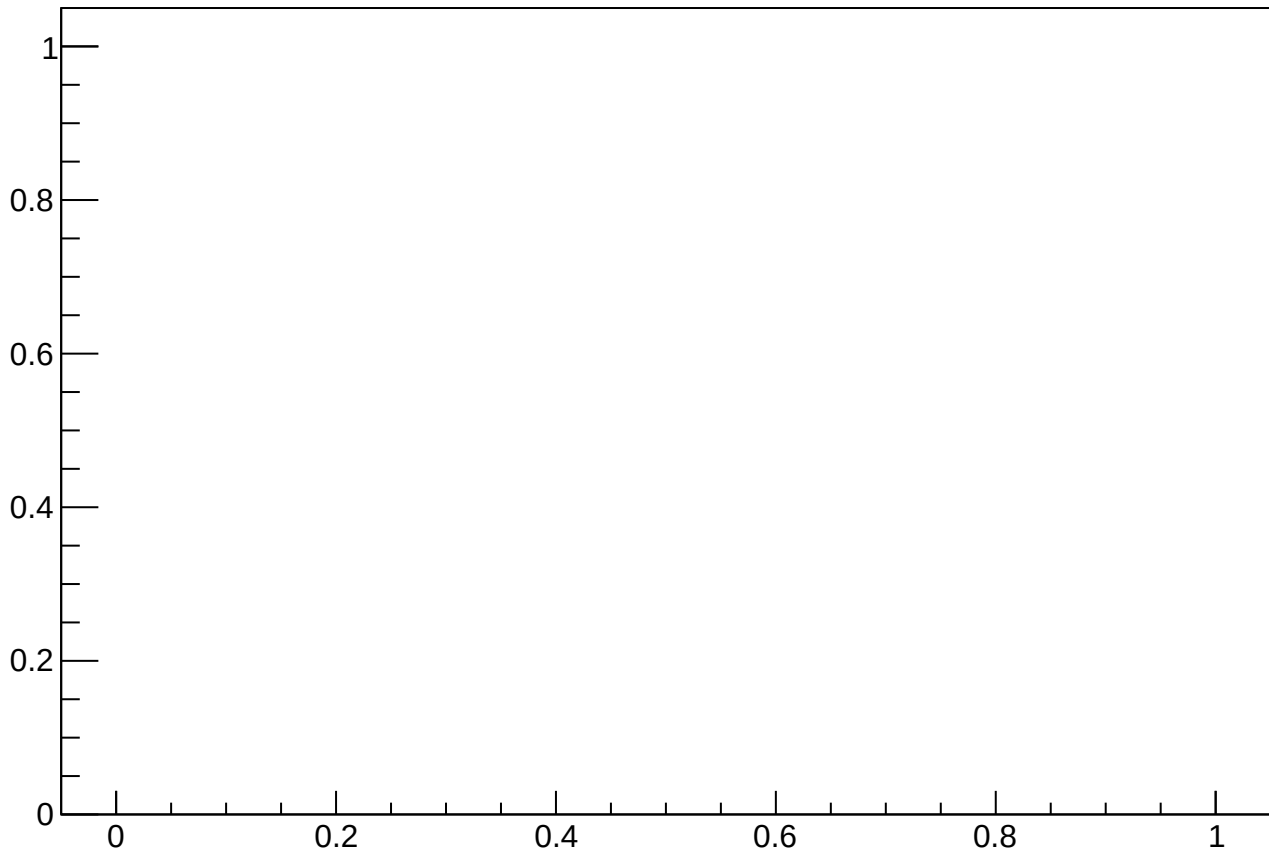
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

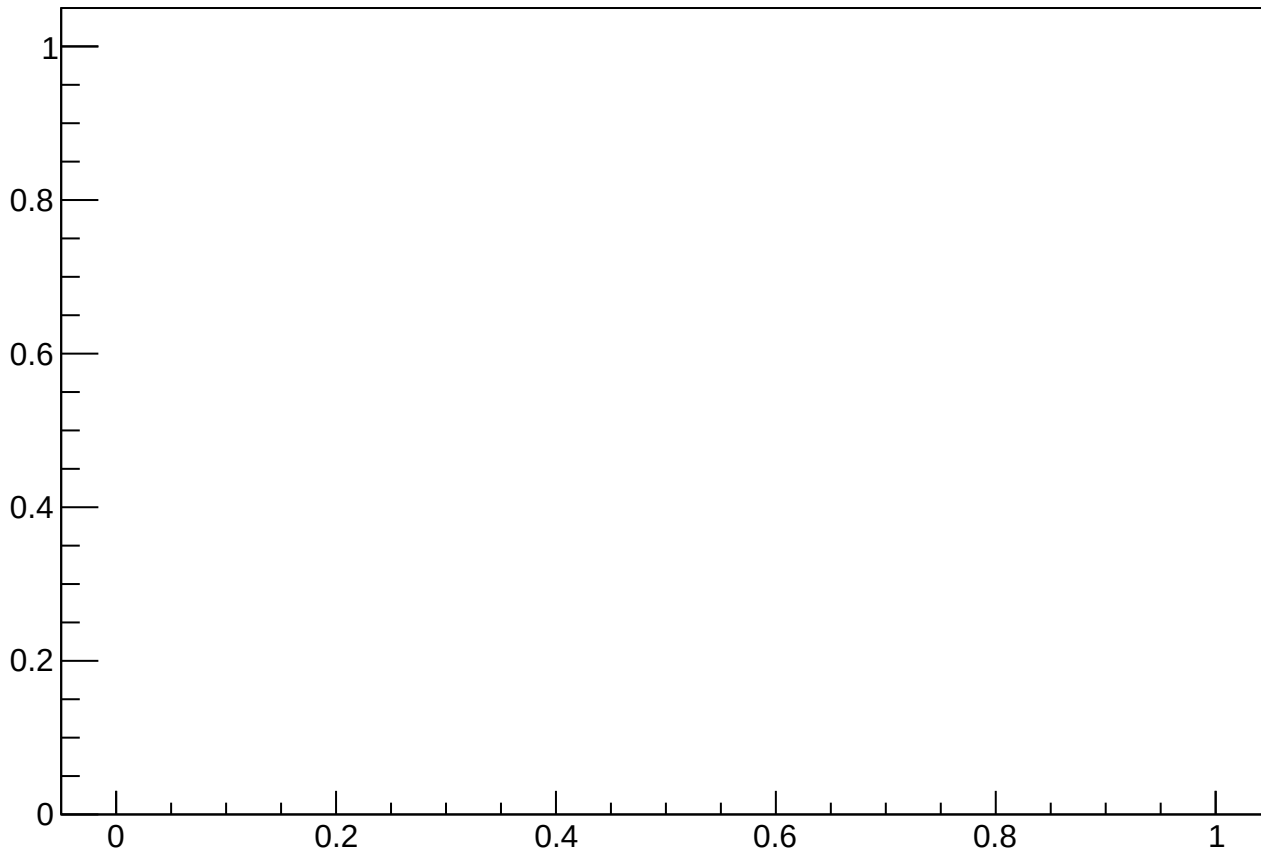
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

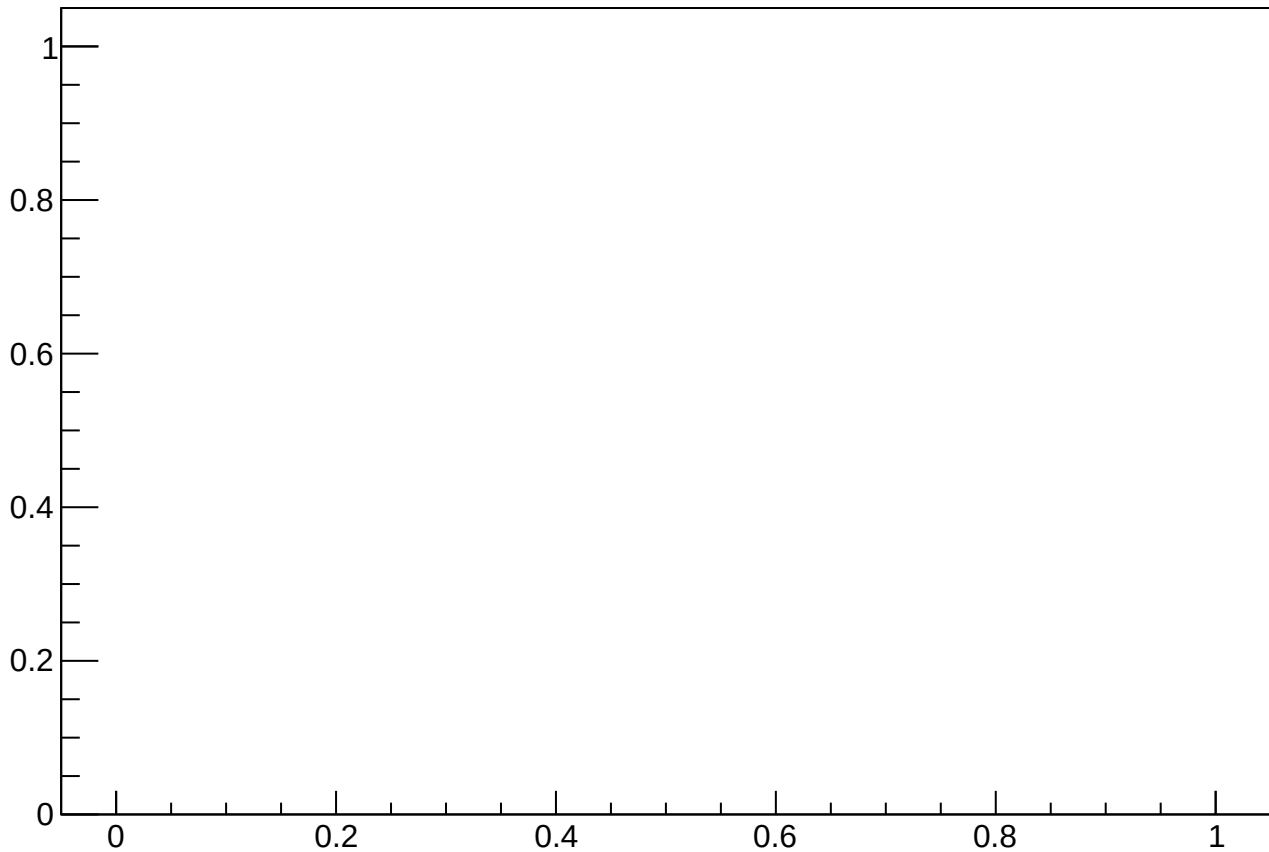
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

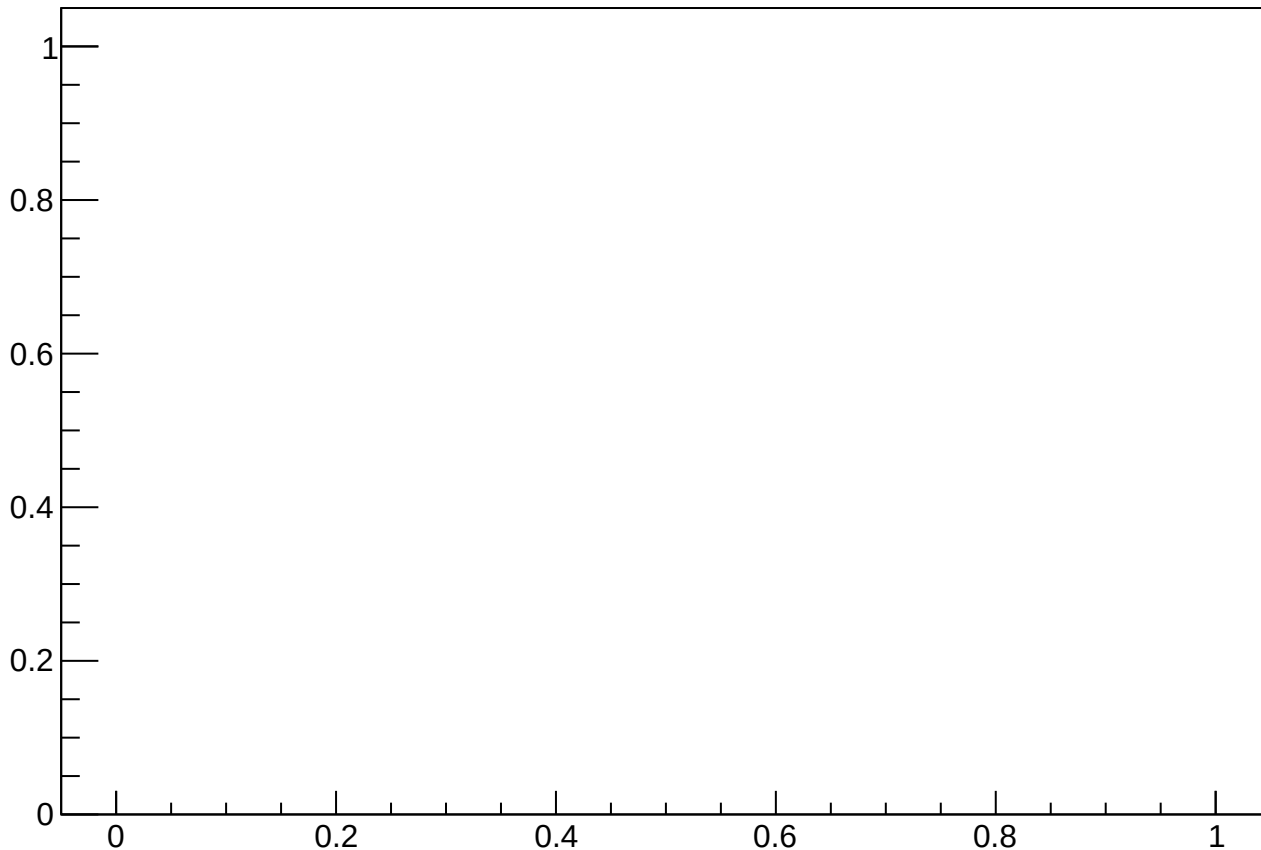
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_atl2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

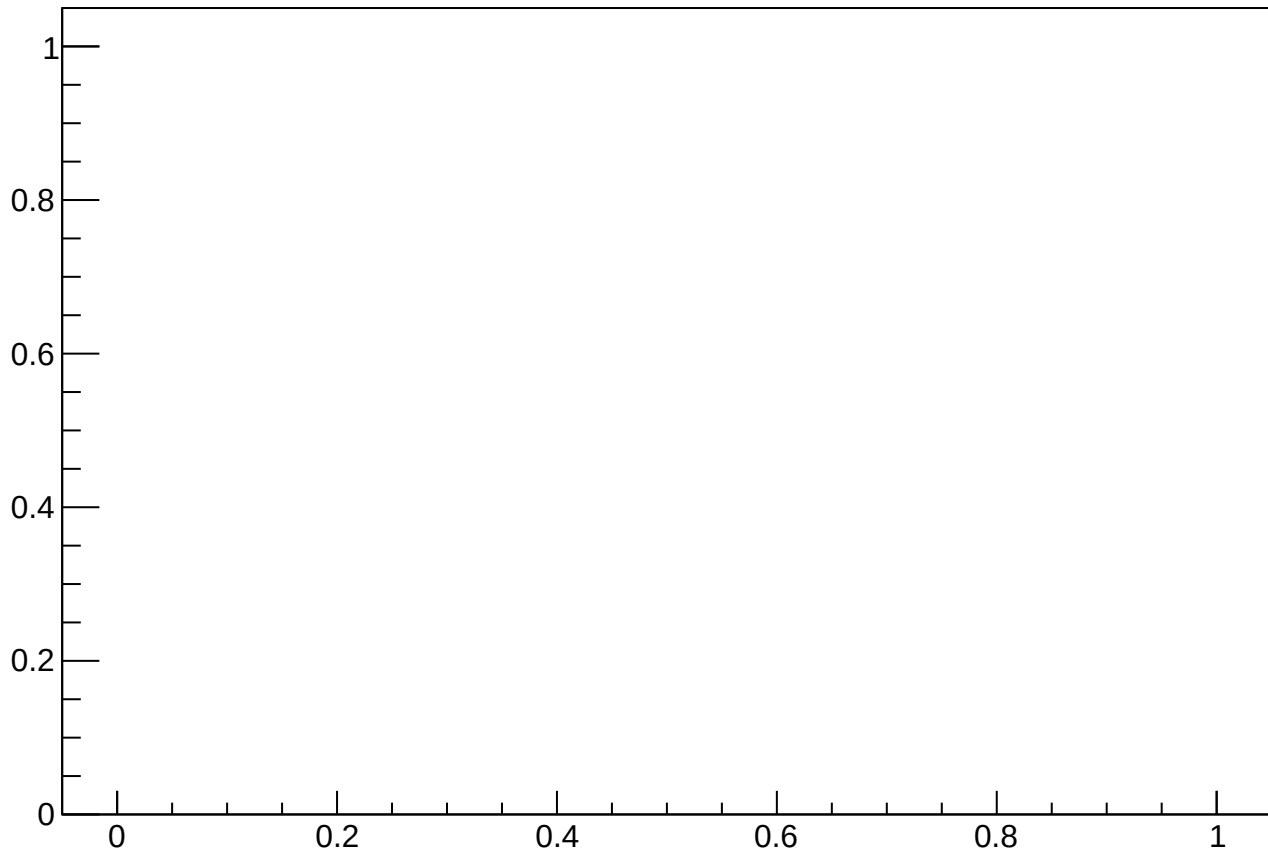
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

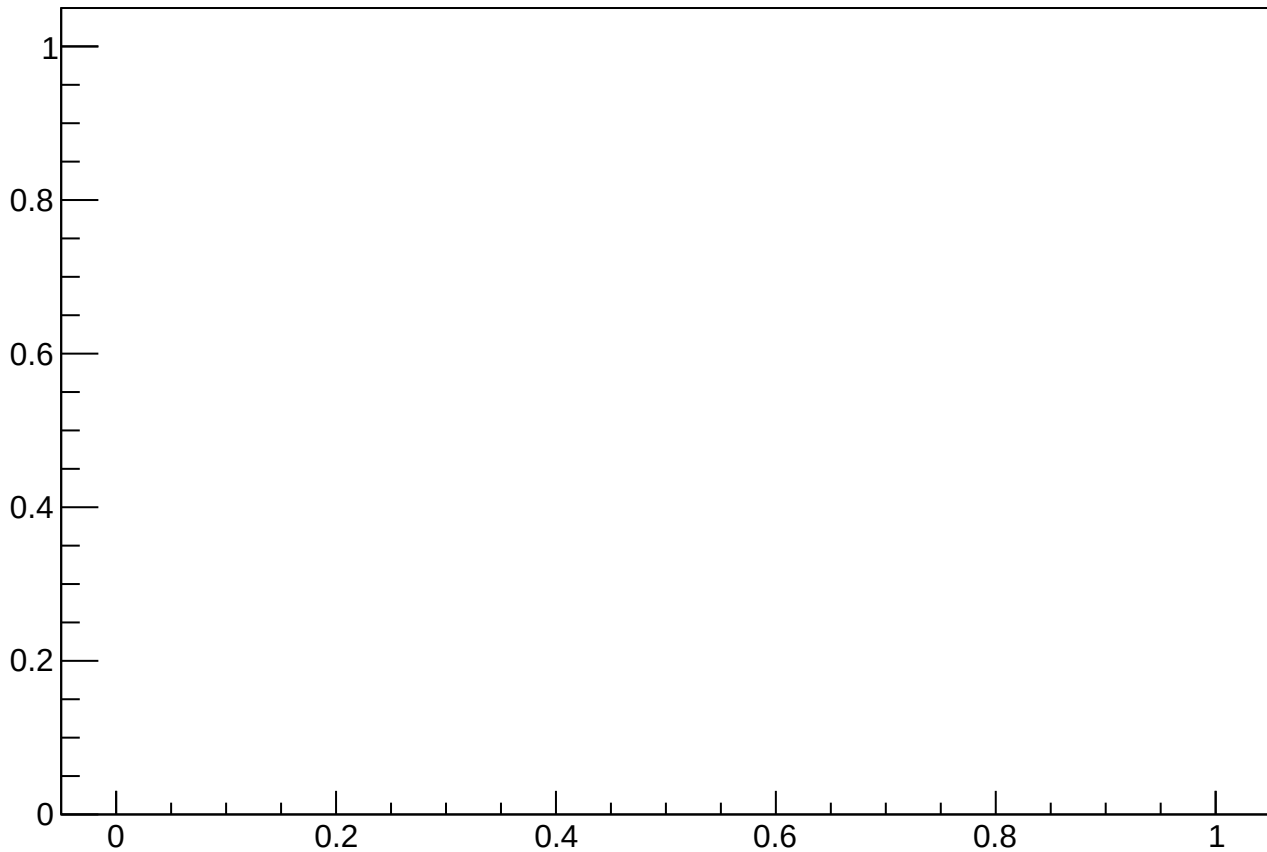
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_sam1\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_sam4\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam4\_coil1\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam5\_coil1\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_sam6\_coil1\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil1\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

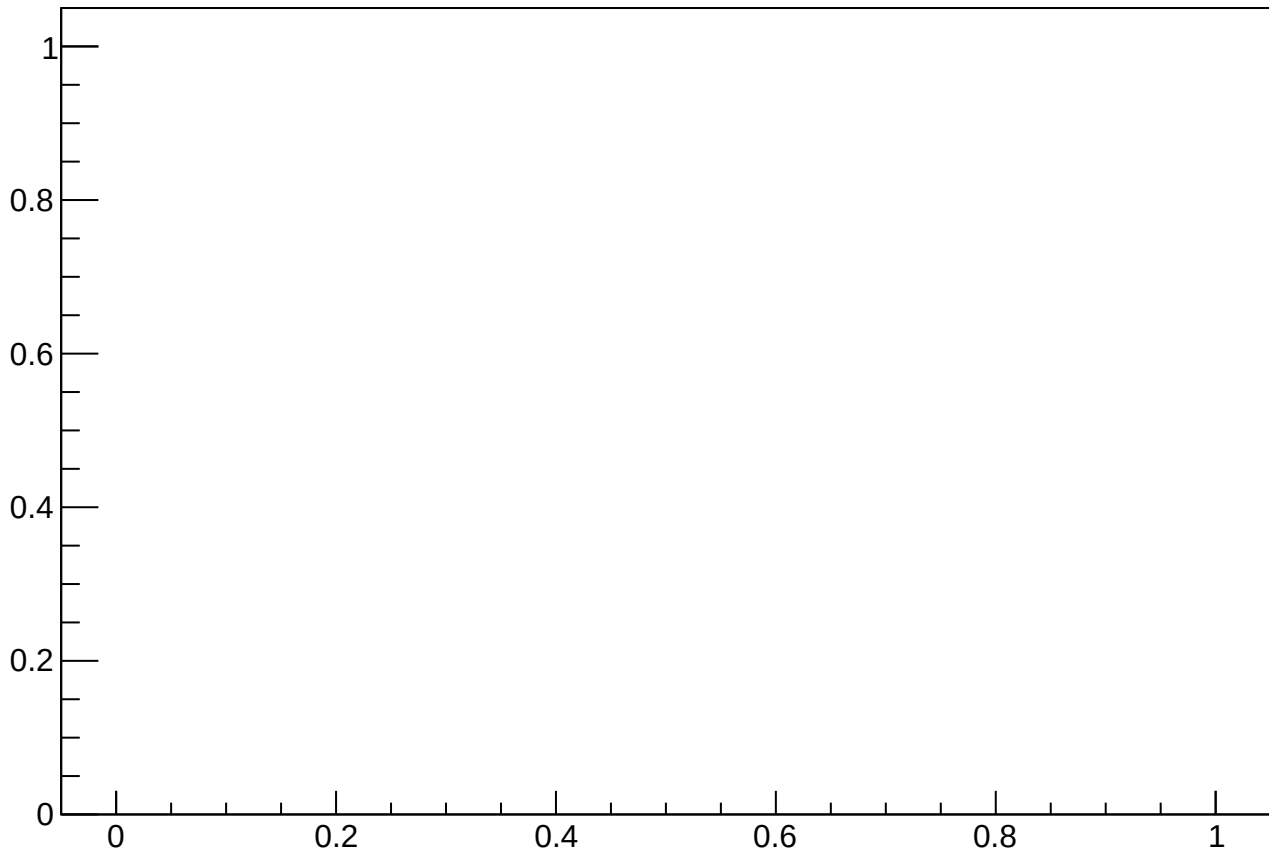
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

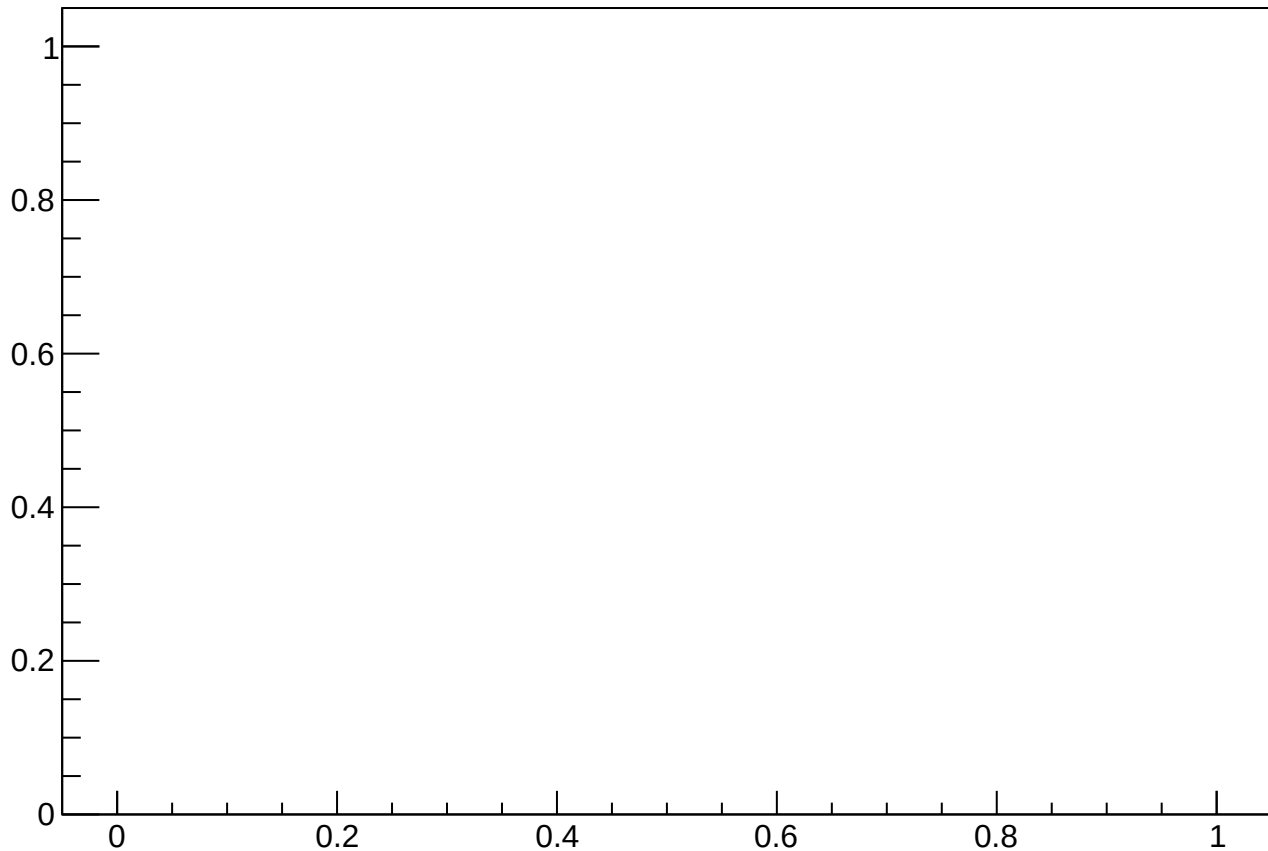
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

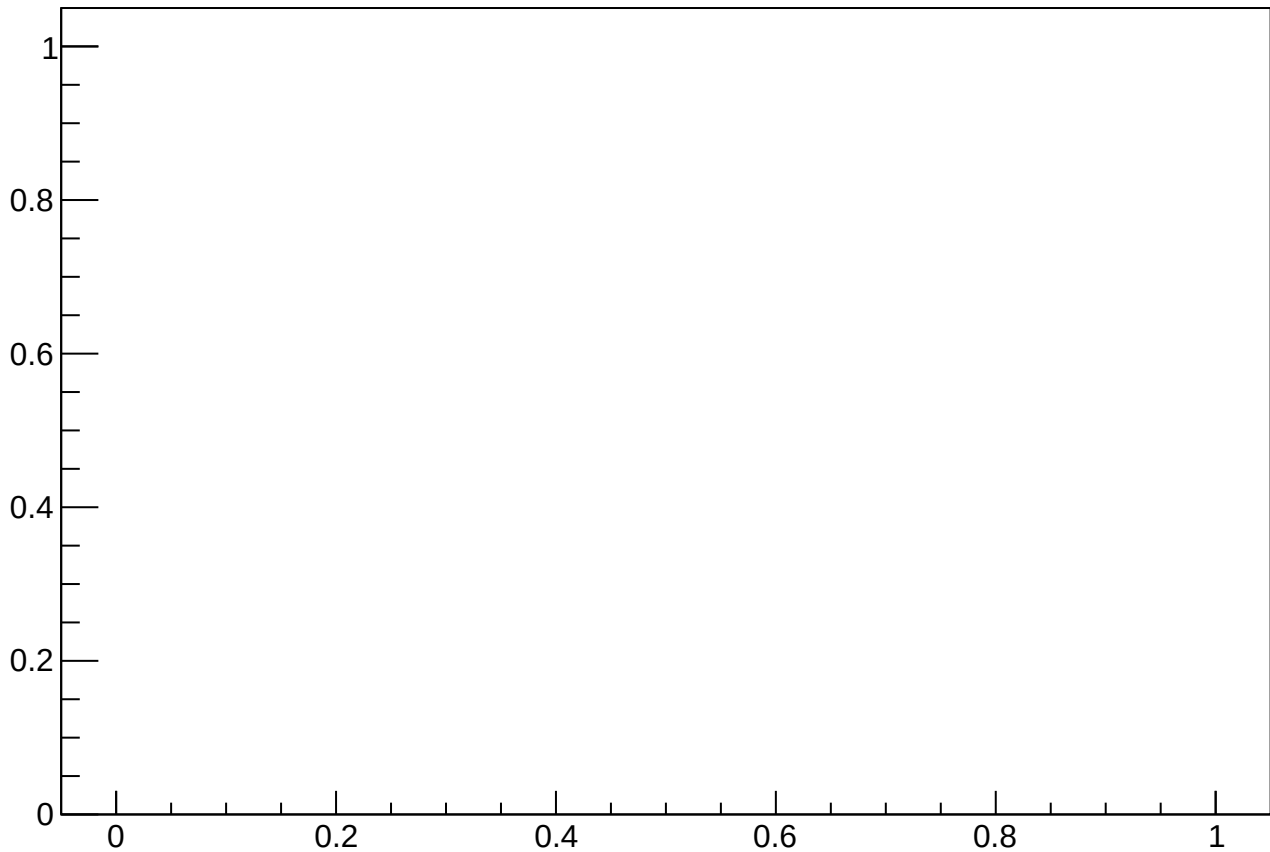
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil3\_Ndata\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl2\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

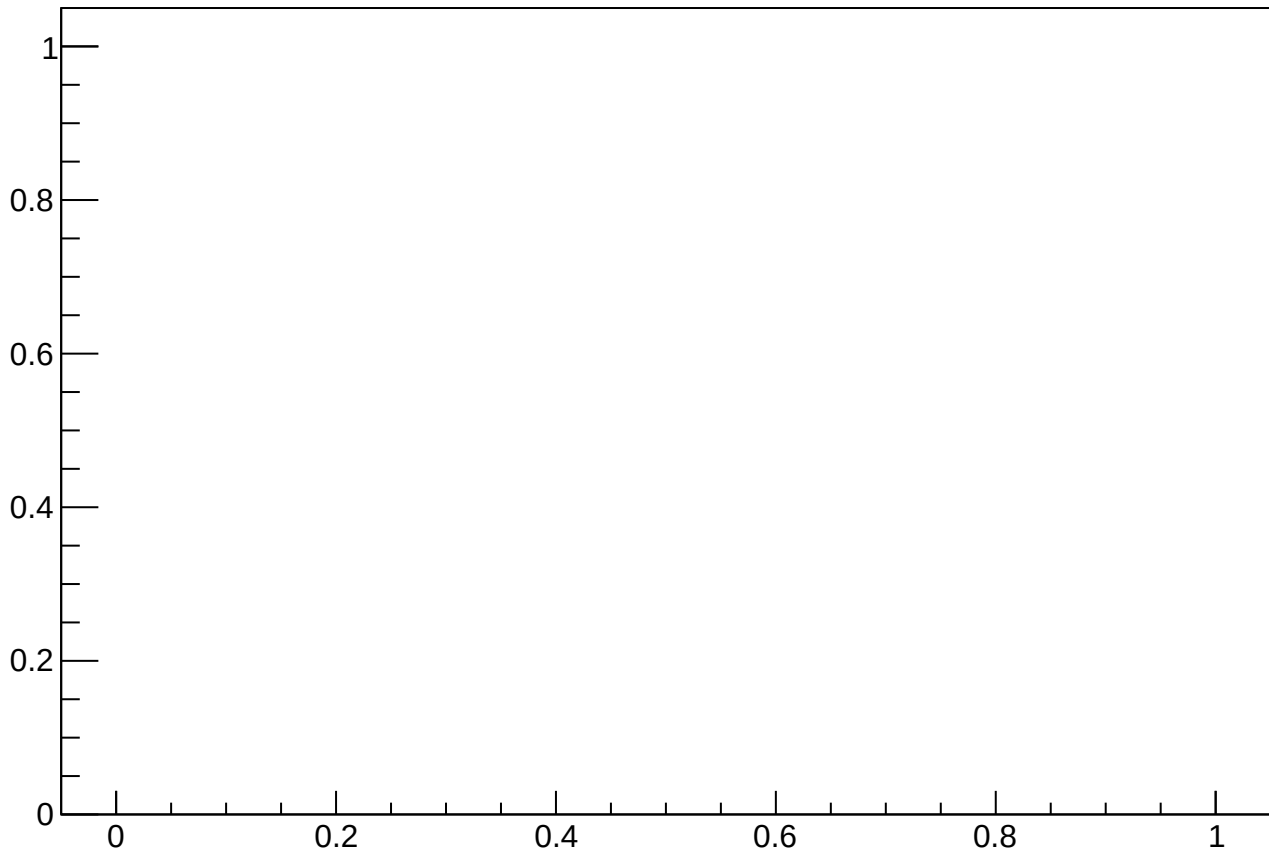
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil3\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

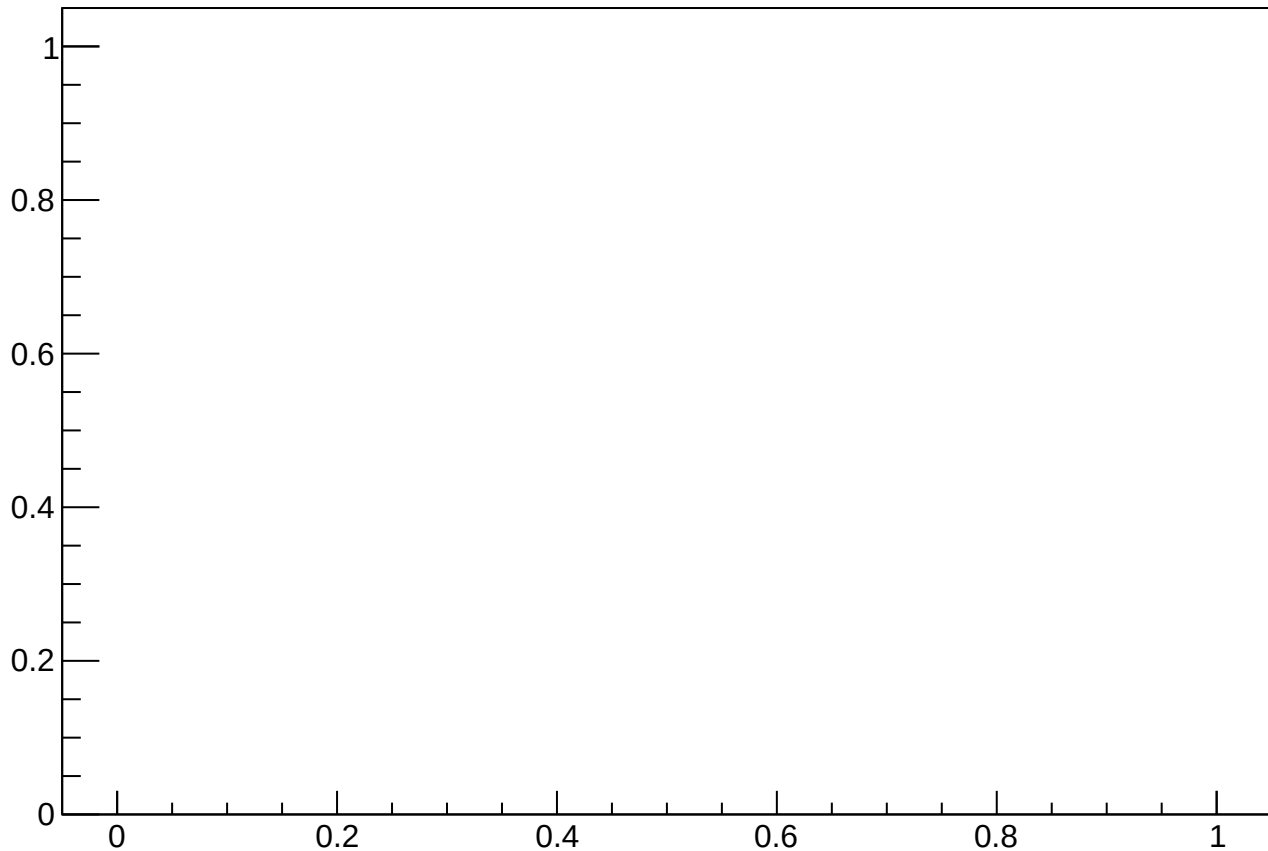
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_sam3\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam4\_coil3\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

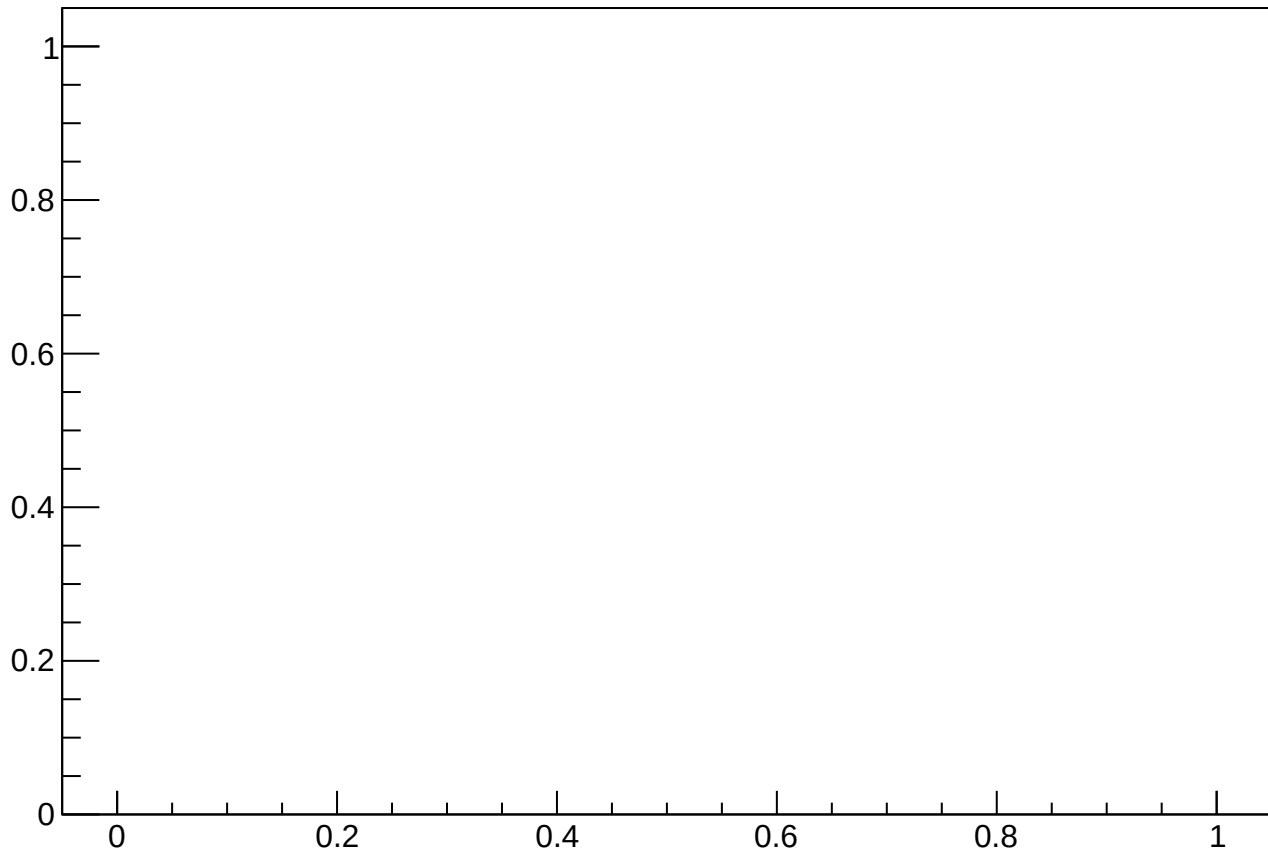
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil3\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

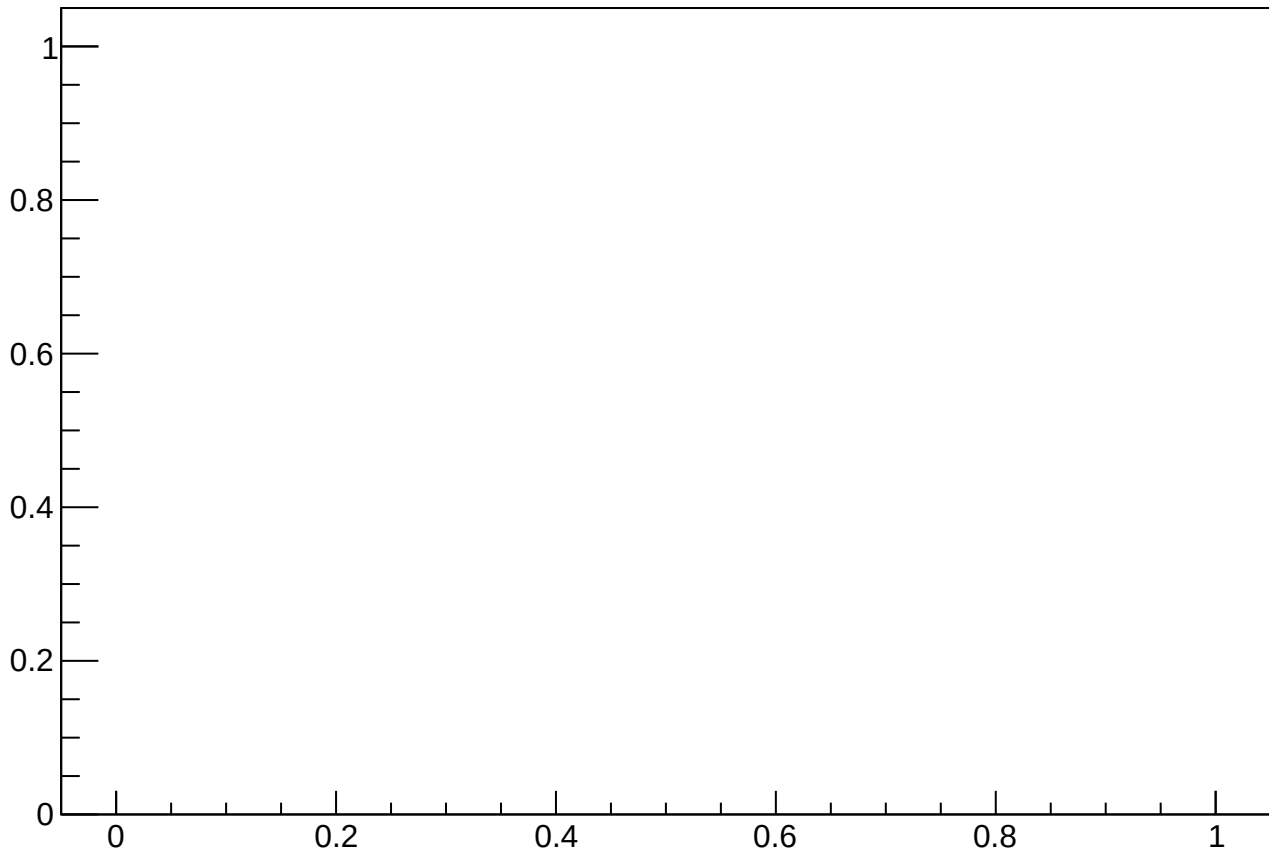
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil3\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil3\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

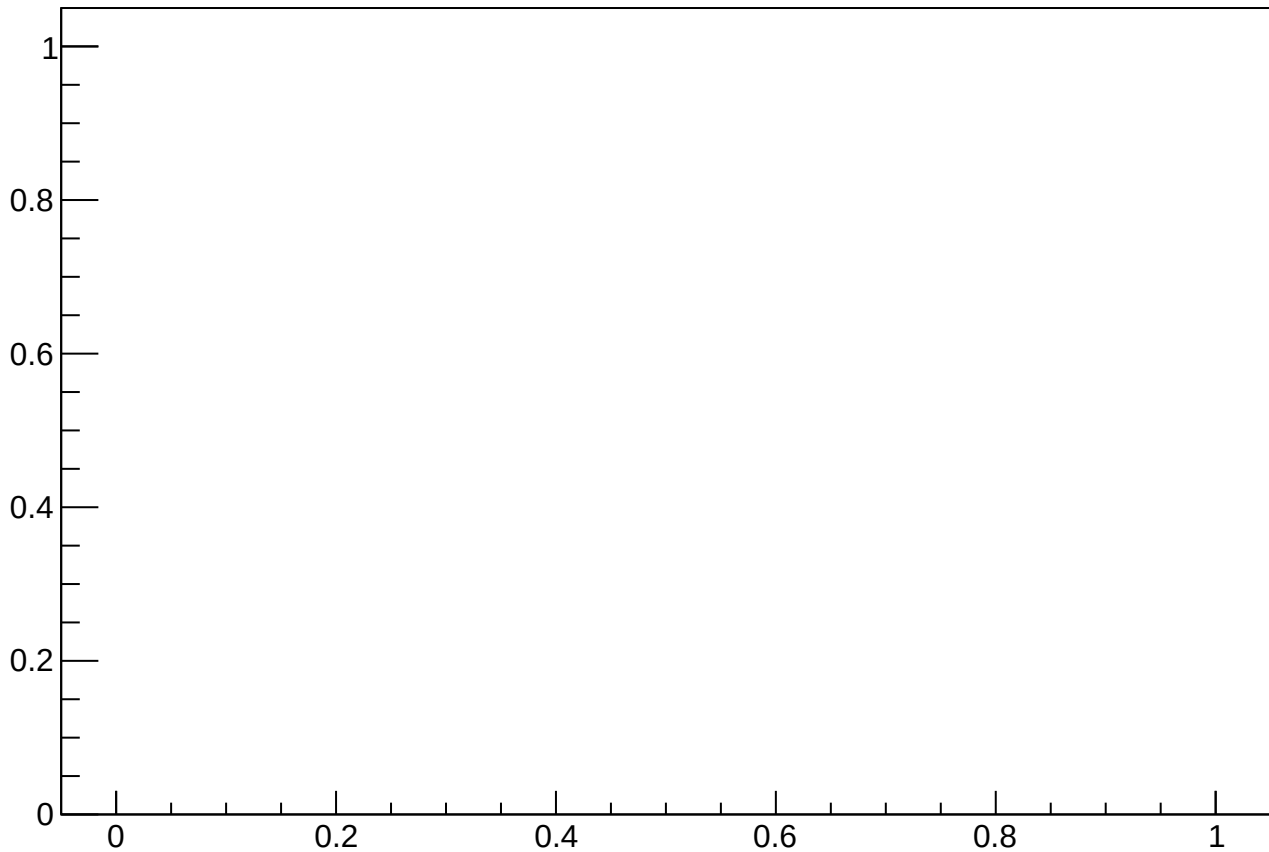
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil3\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

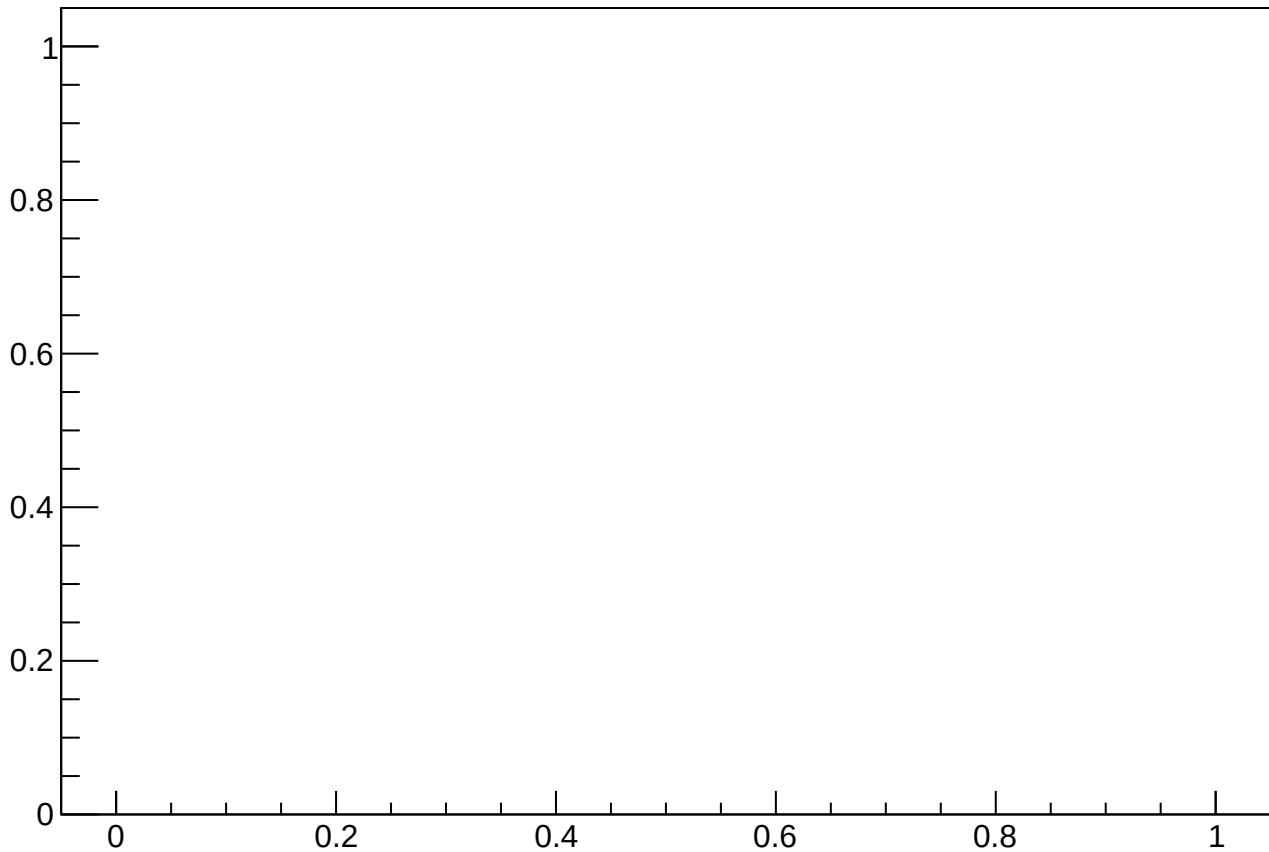
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_4aX\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aX\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_usl\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_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

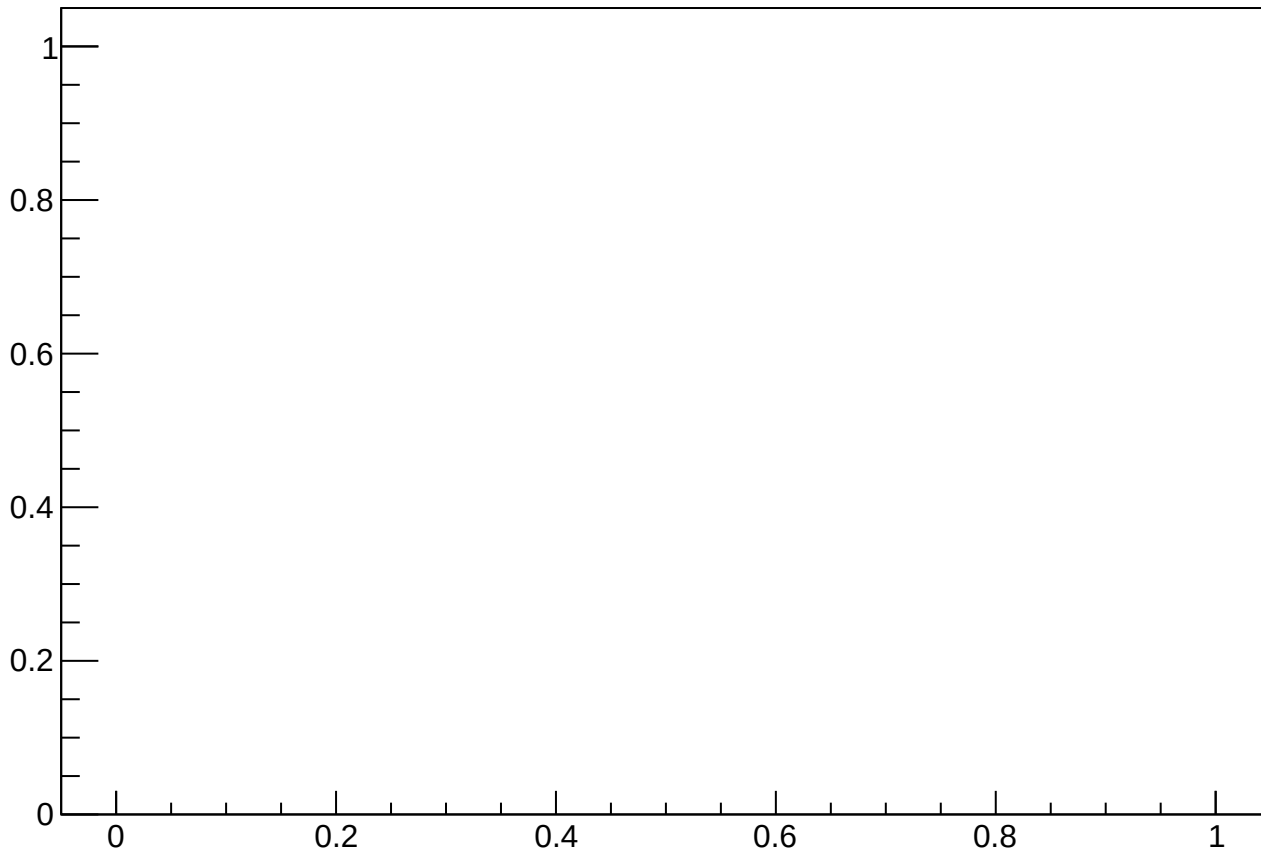
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# dit\_atl2\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

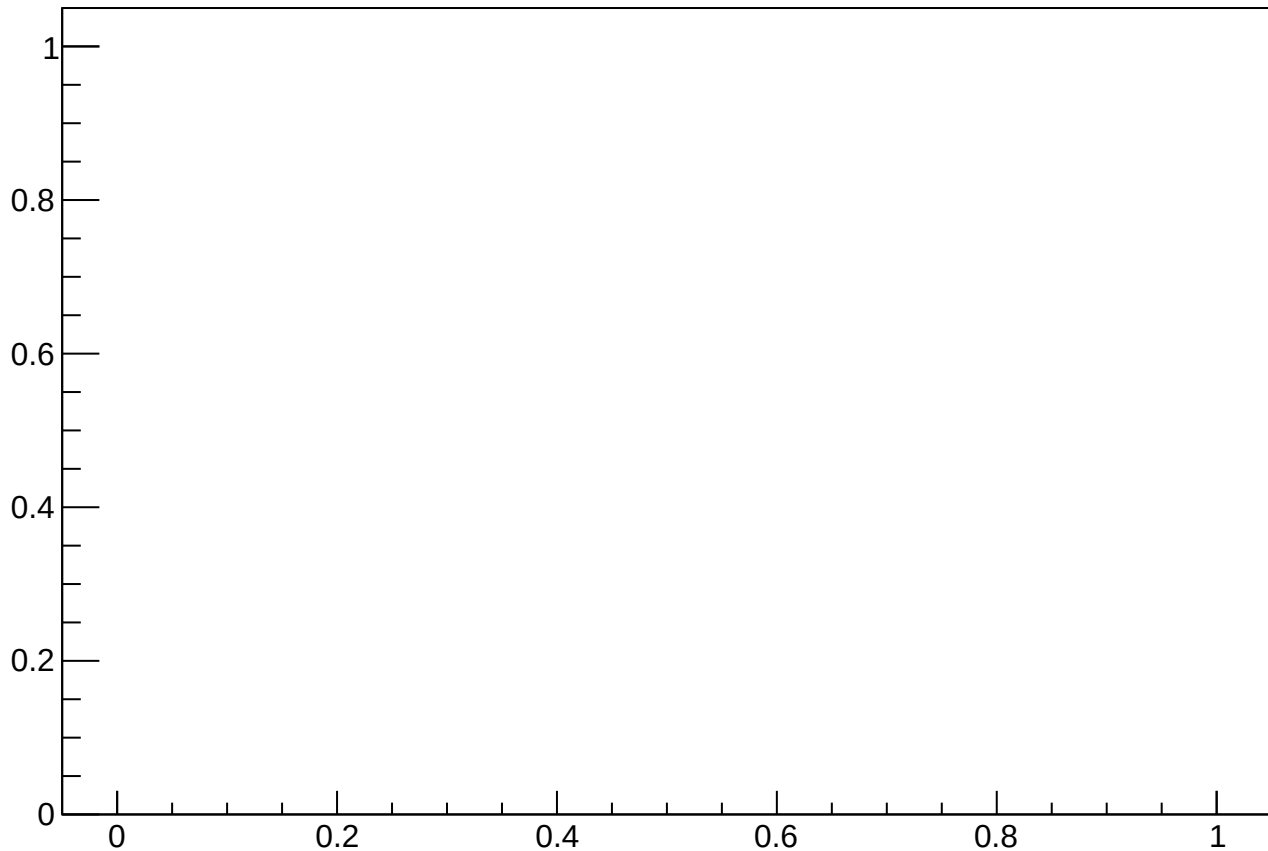
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil7\_err\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam8\_coil7\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

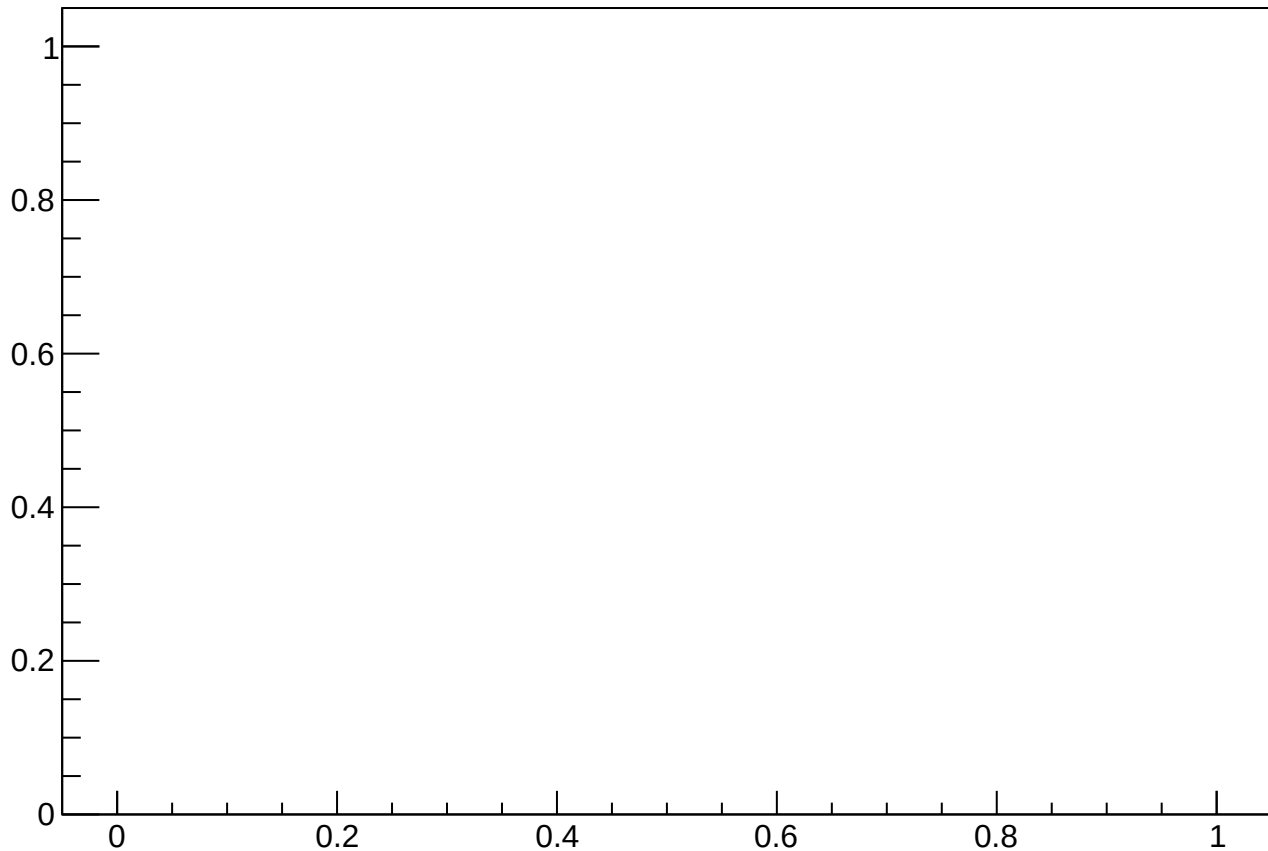
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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\_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\_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

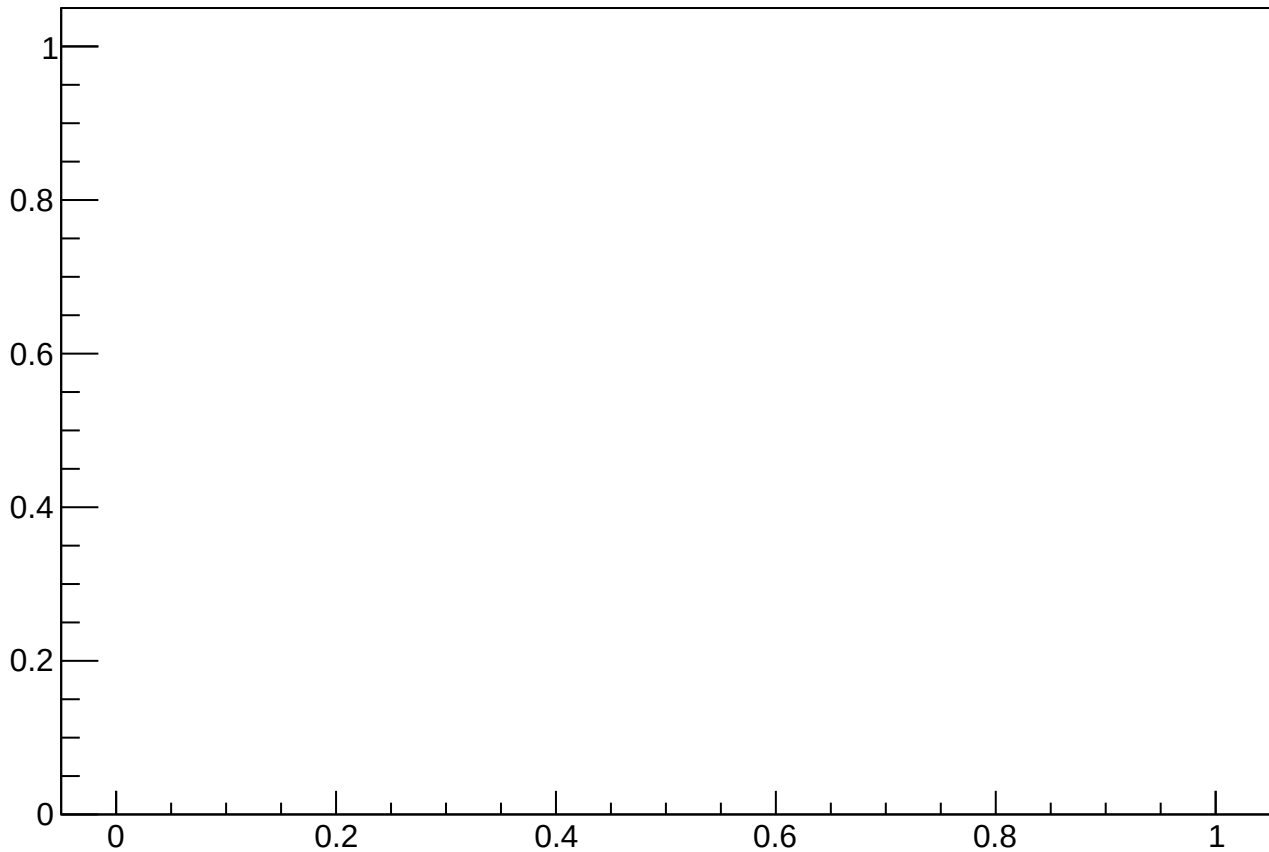
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eX\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_11X12X\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_11X12X\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

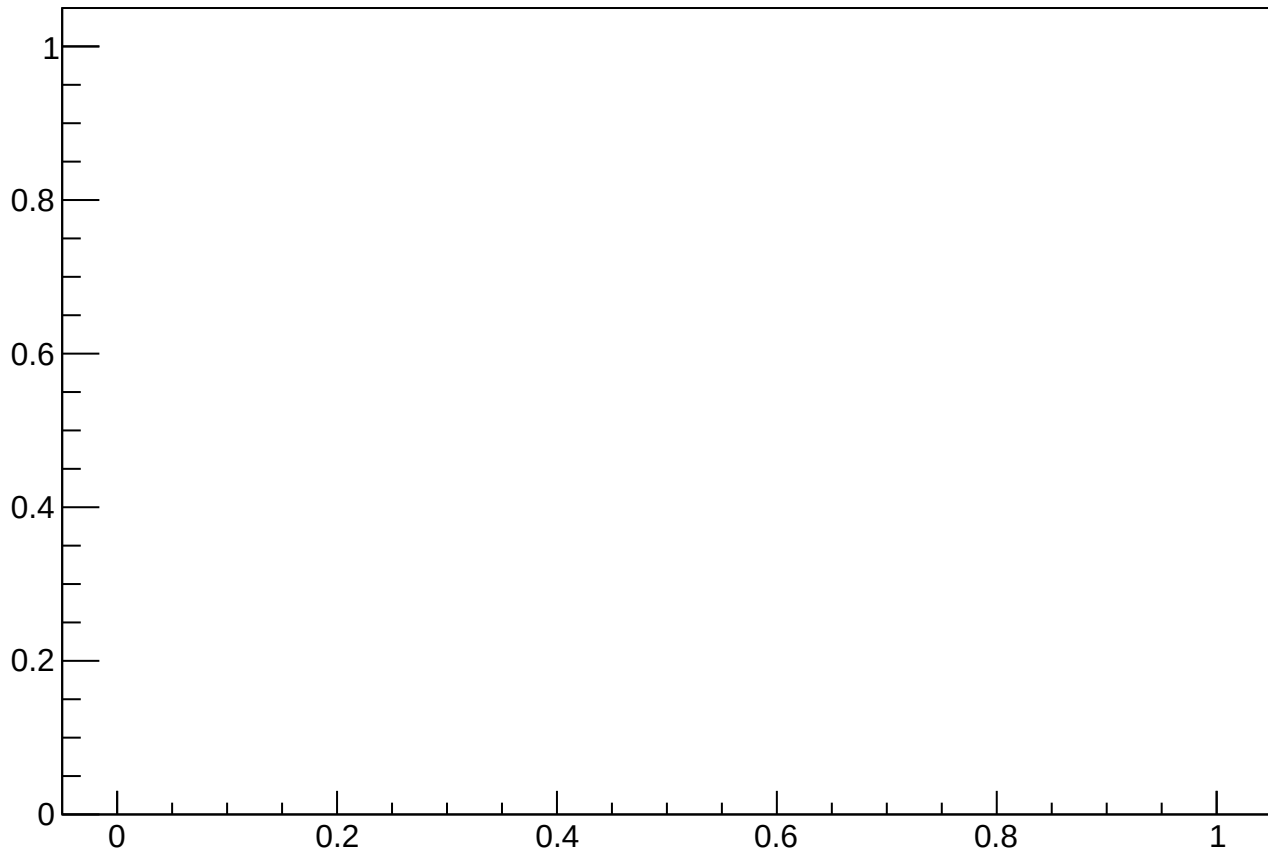
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_11X12X\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4aY\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_4eY\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_4eY\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_usl\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

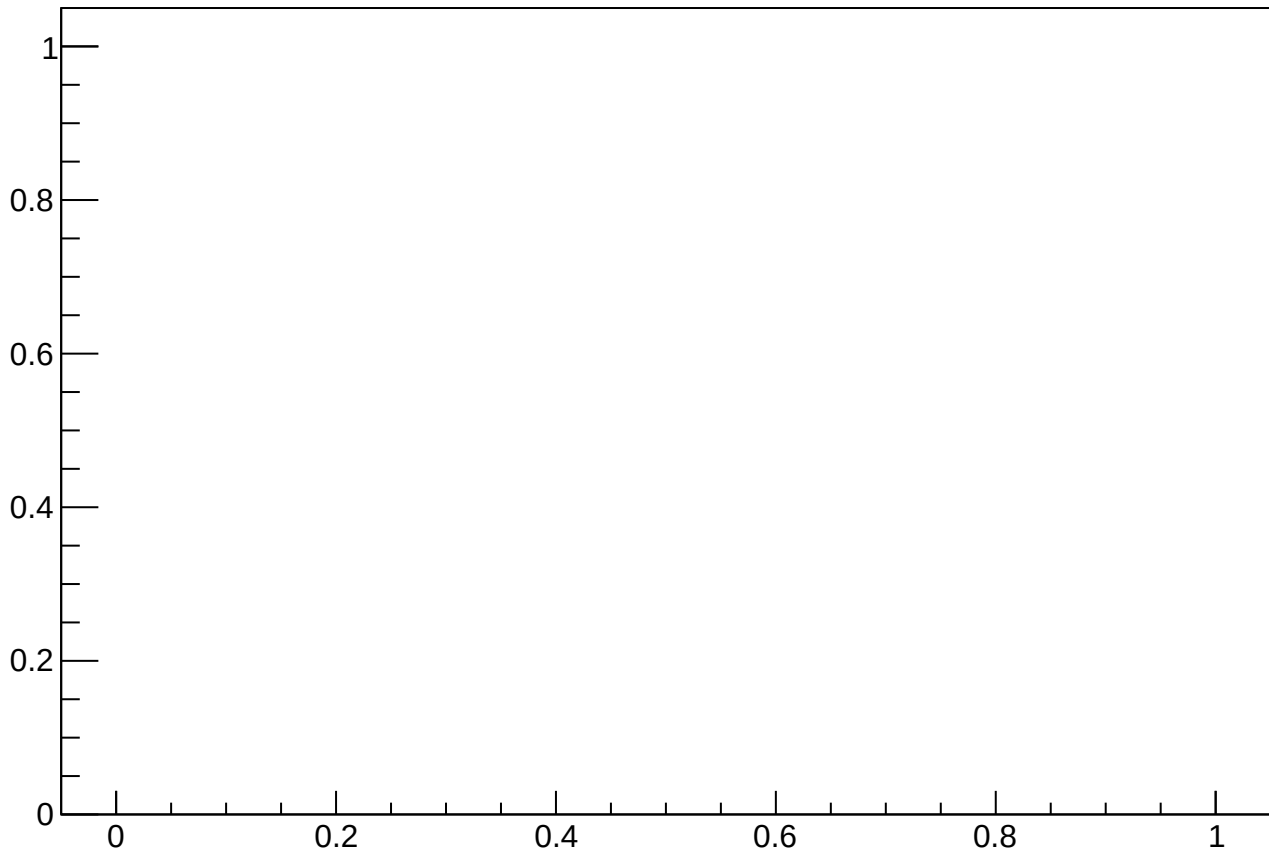
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

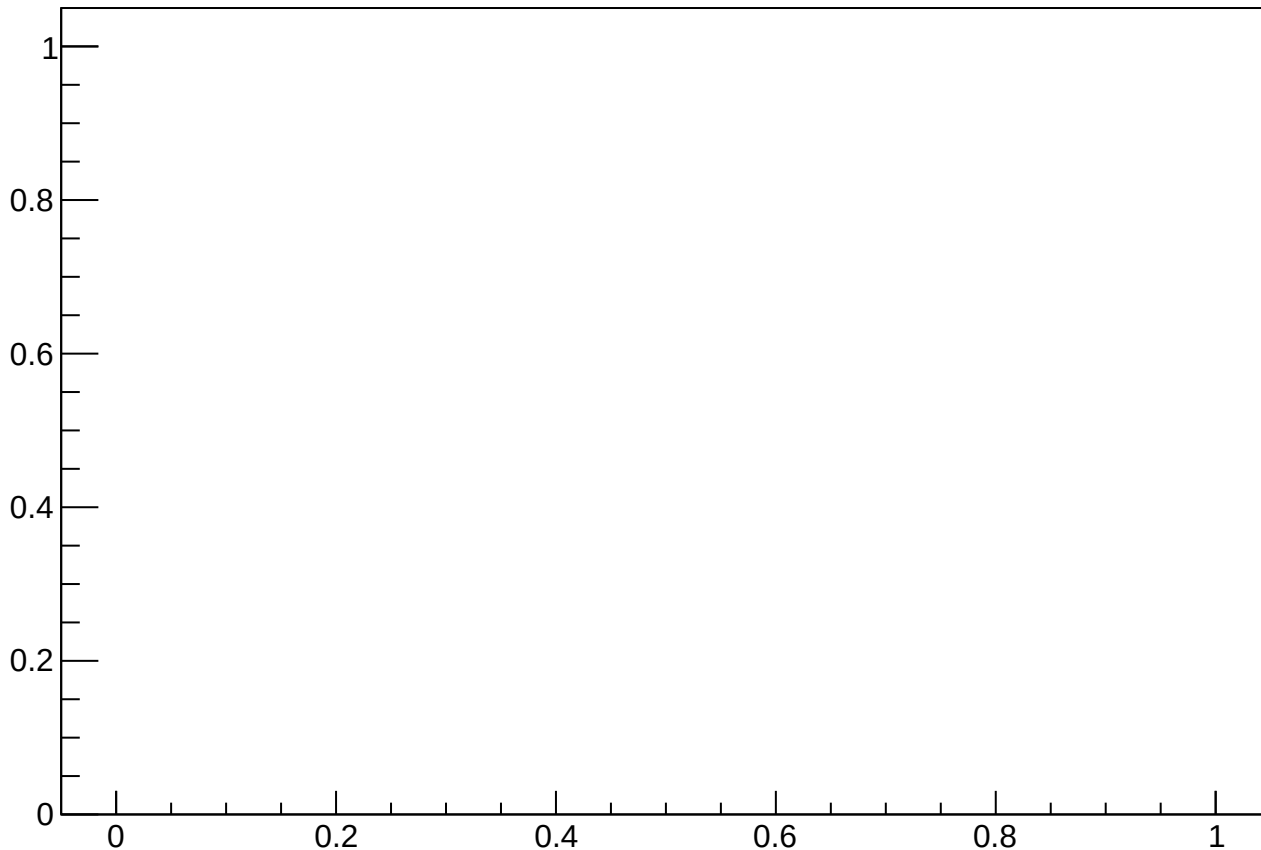
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_atl1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

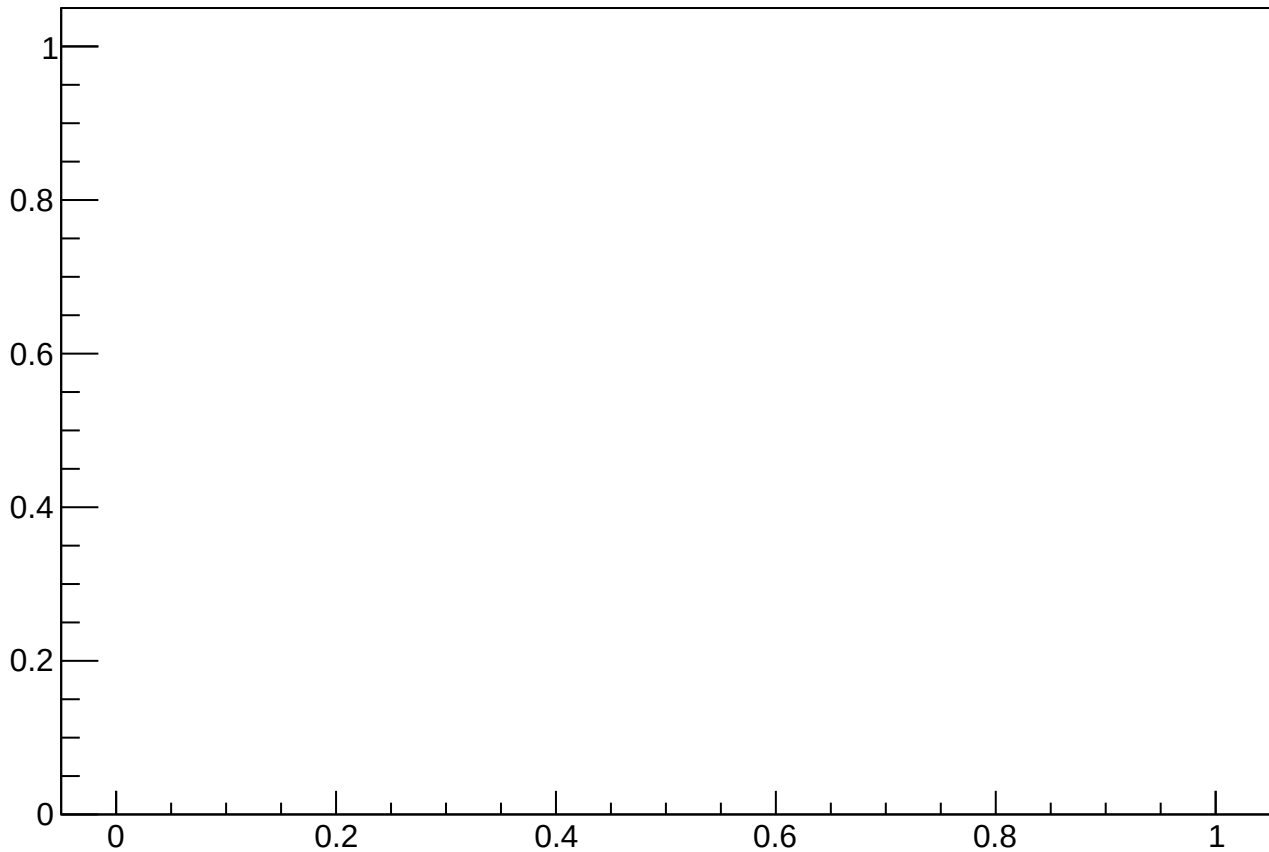
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

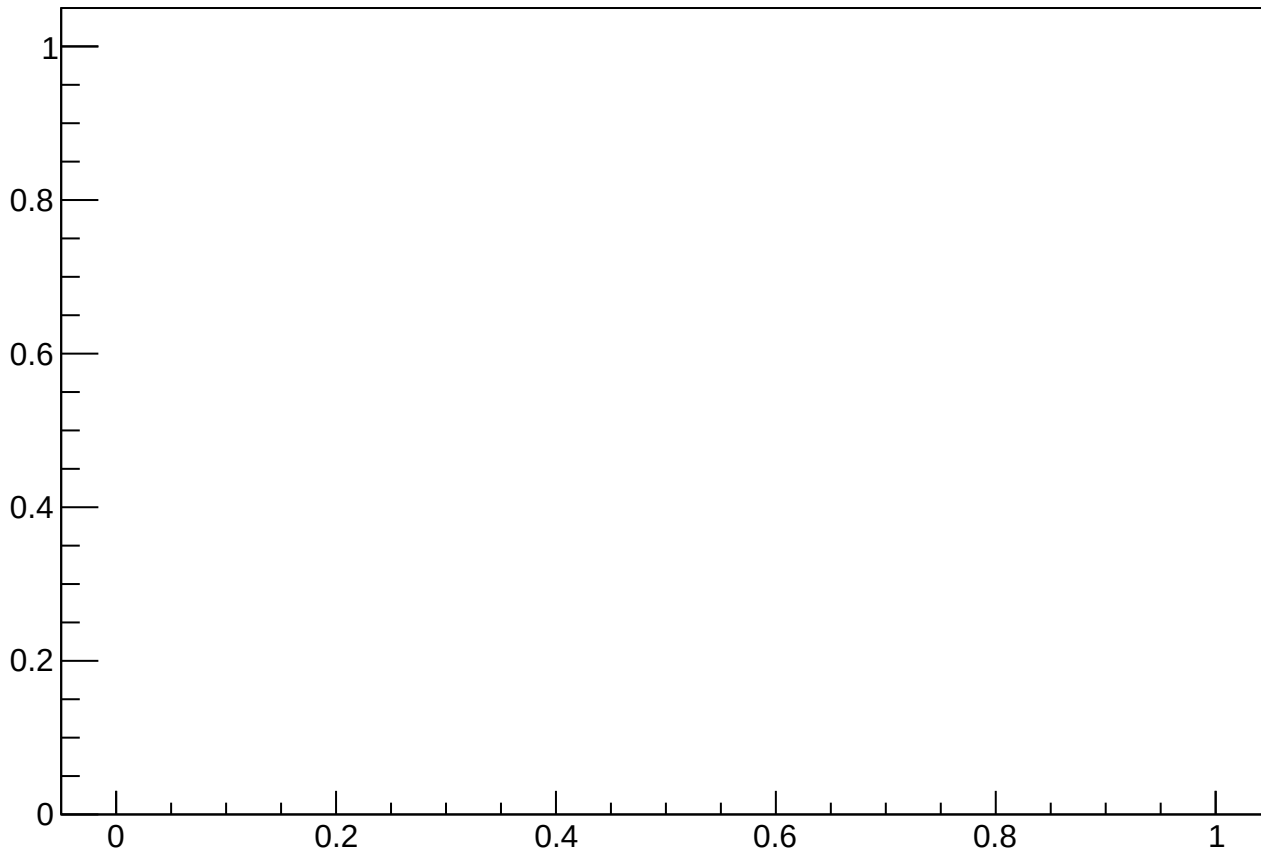
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

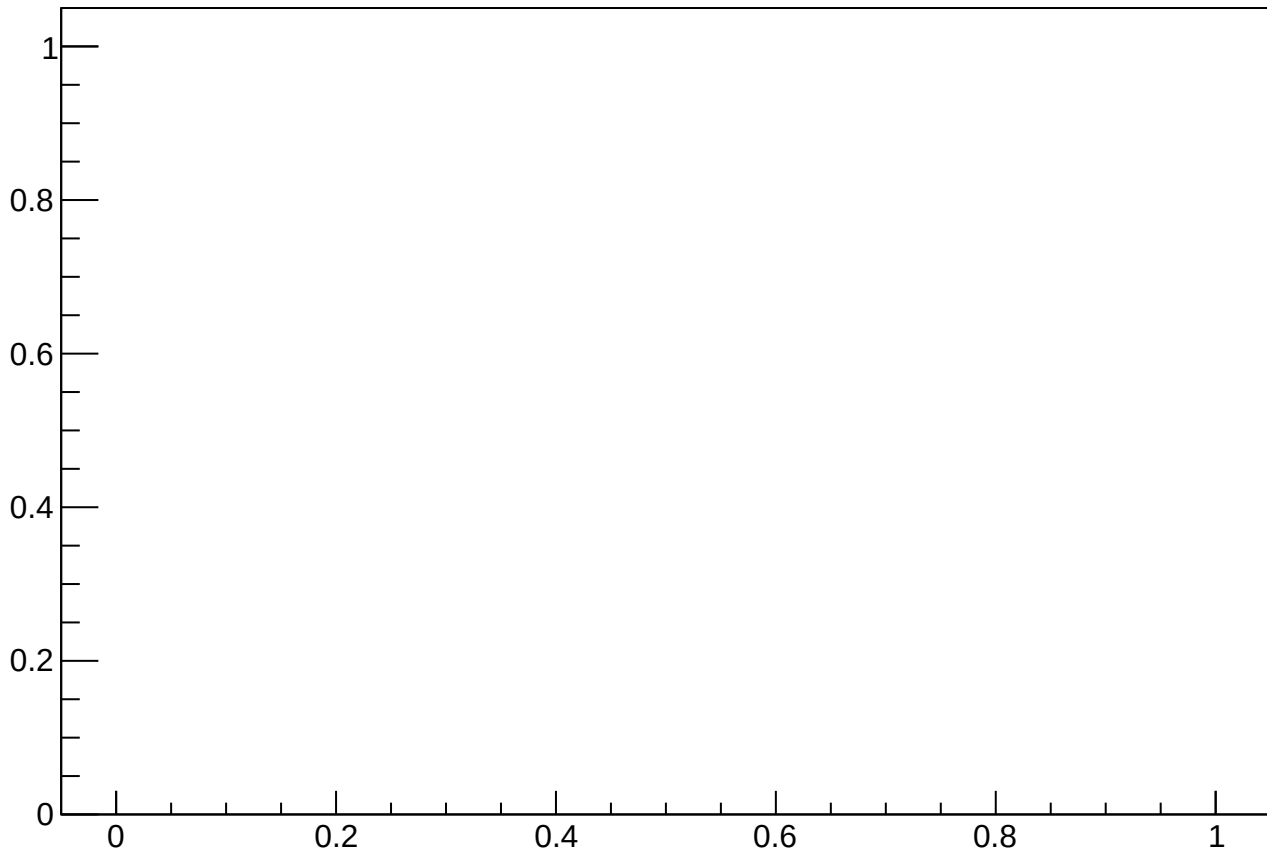
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_atr2\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam1\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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\_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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

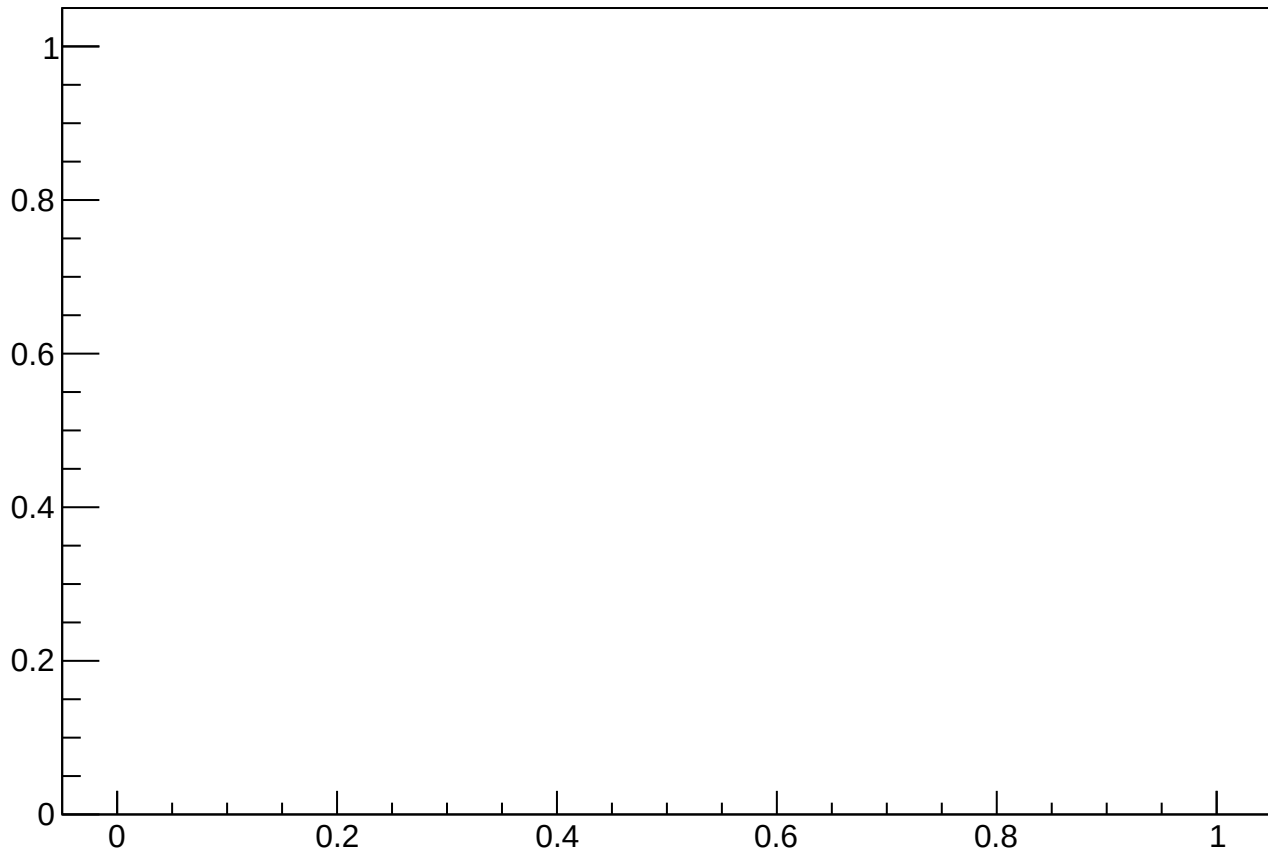
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ 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\_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

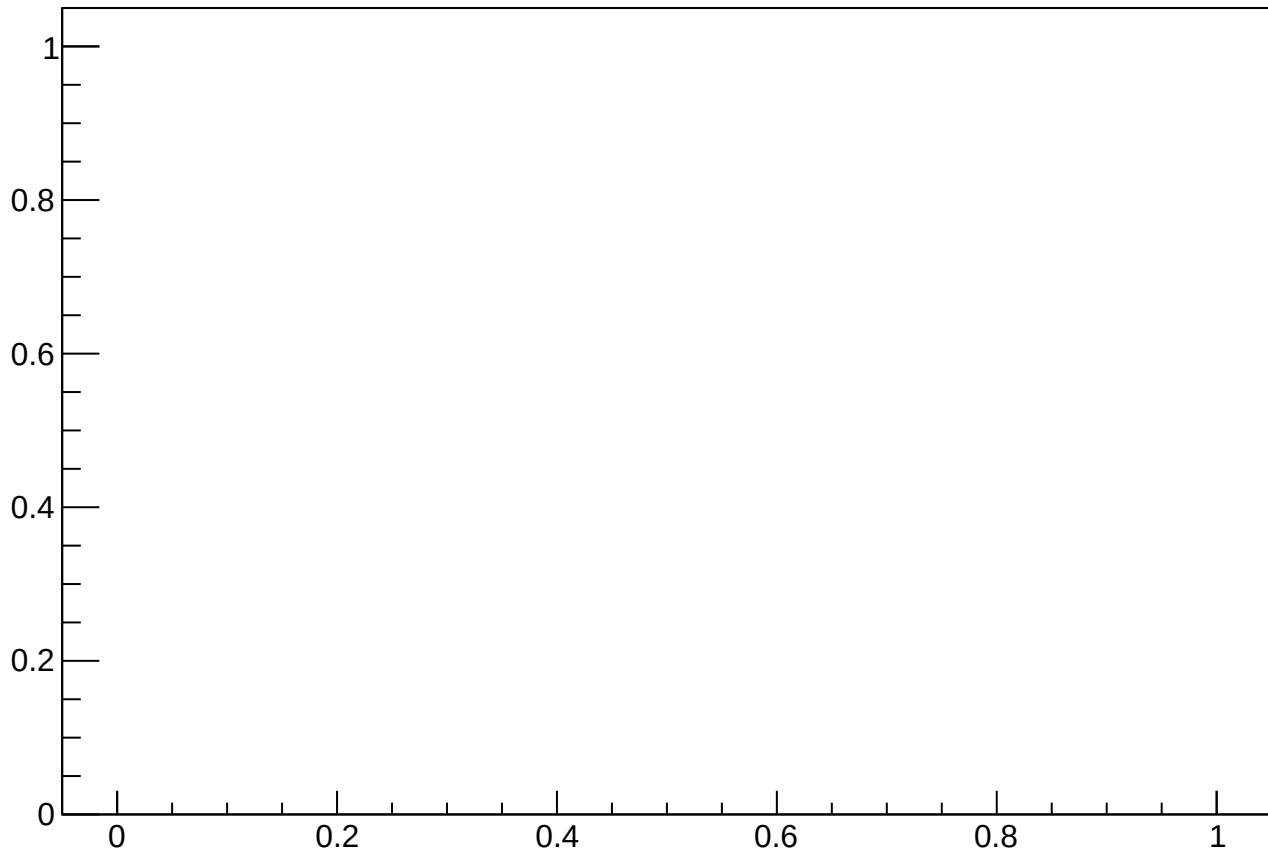
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam6\_coil4\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil4\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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

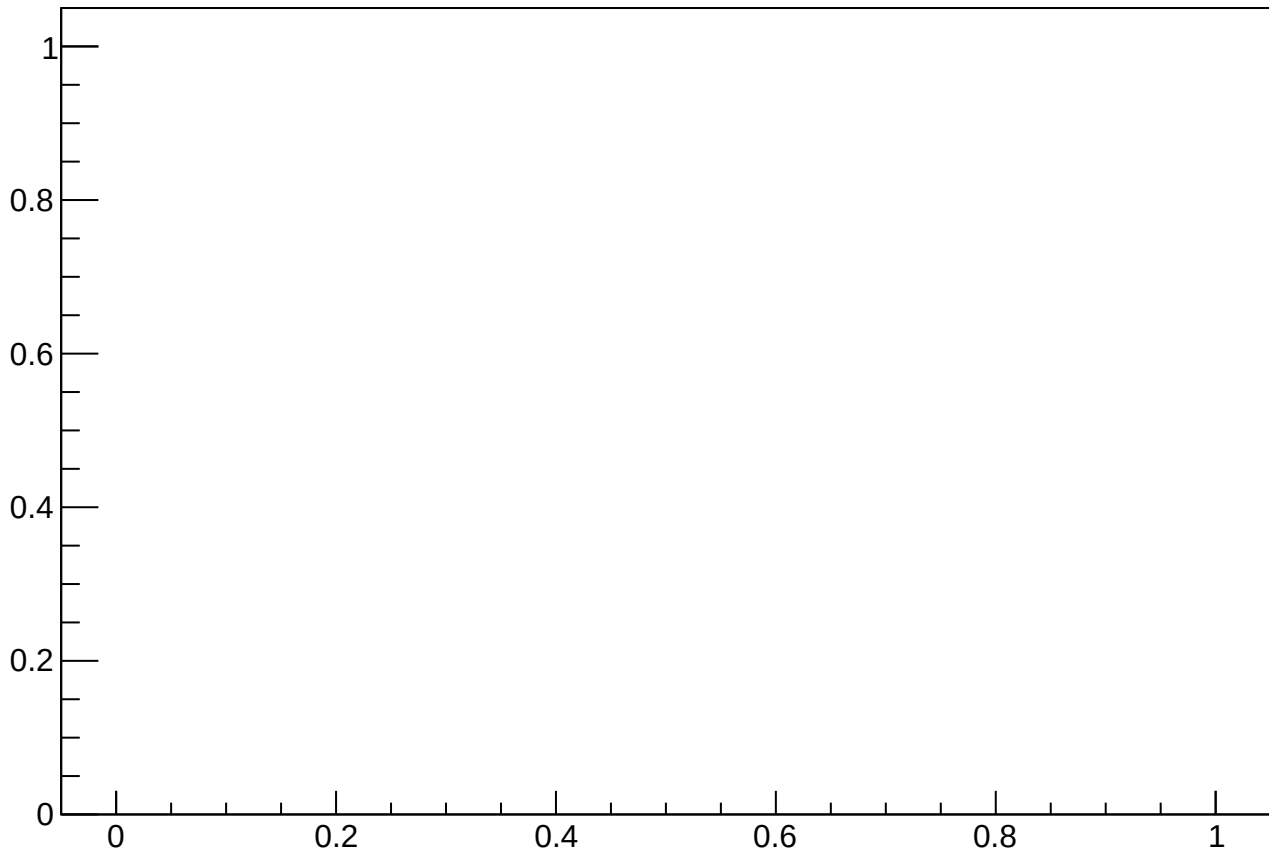
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_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

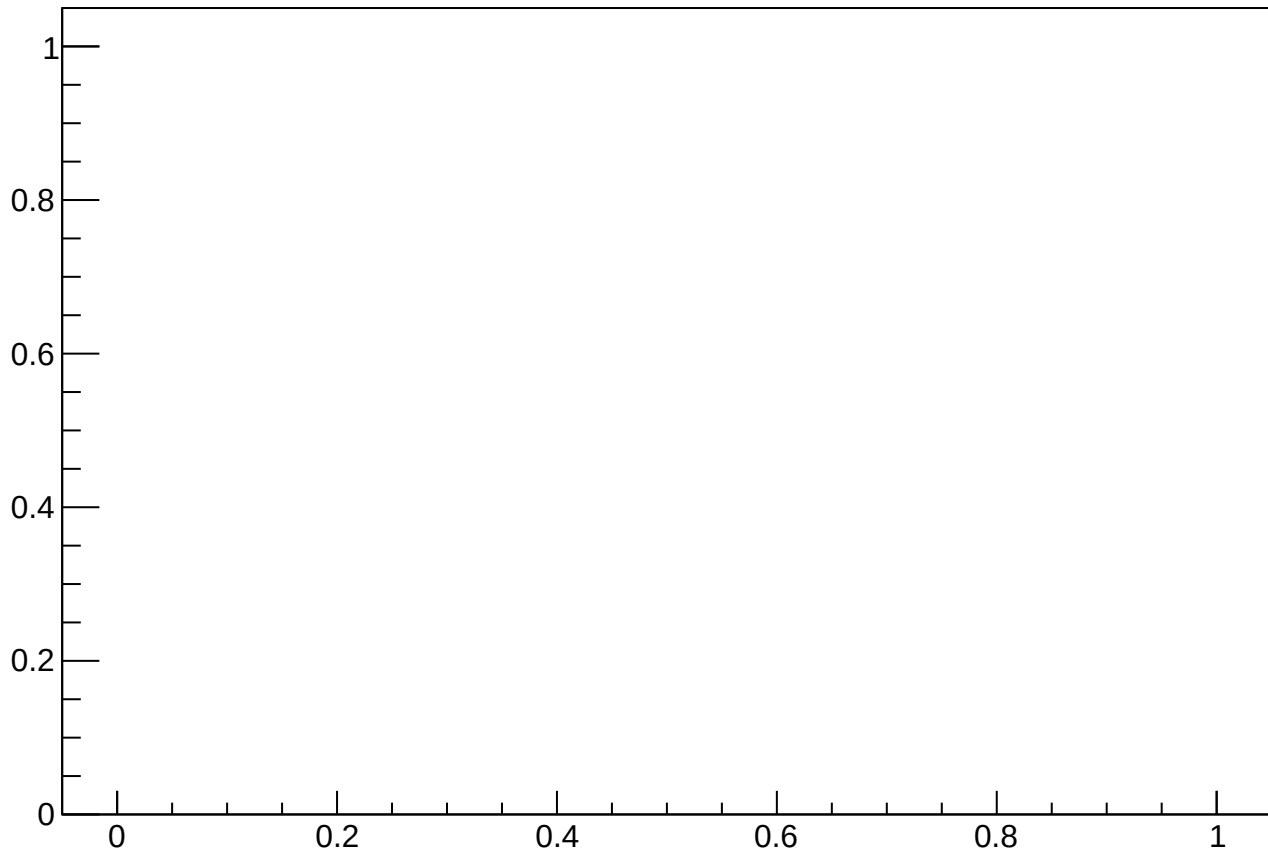
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usl\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

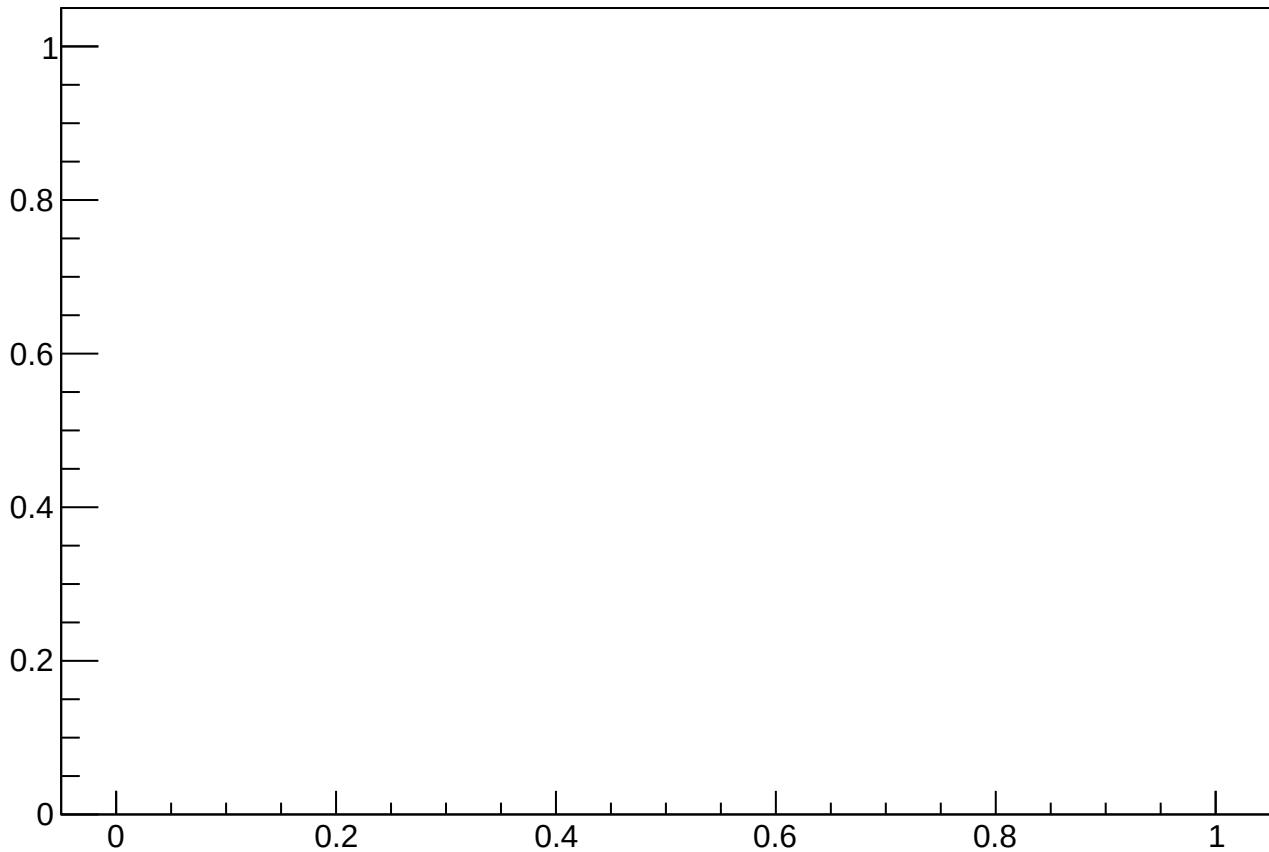
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_usr\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_usr\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl1\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



dit\_atl1\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

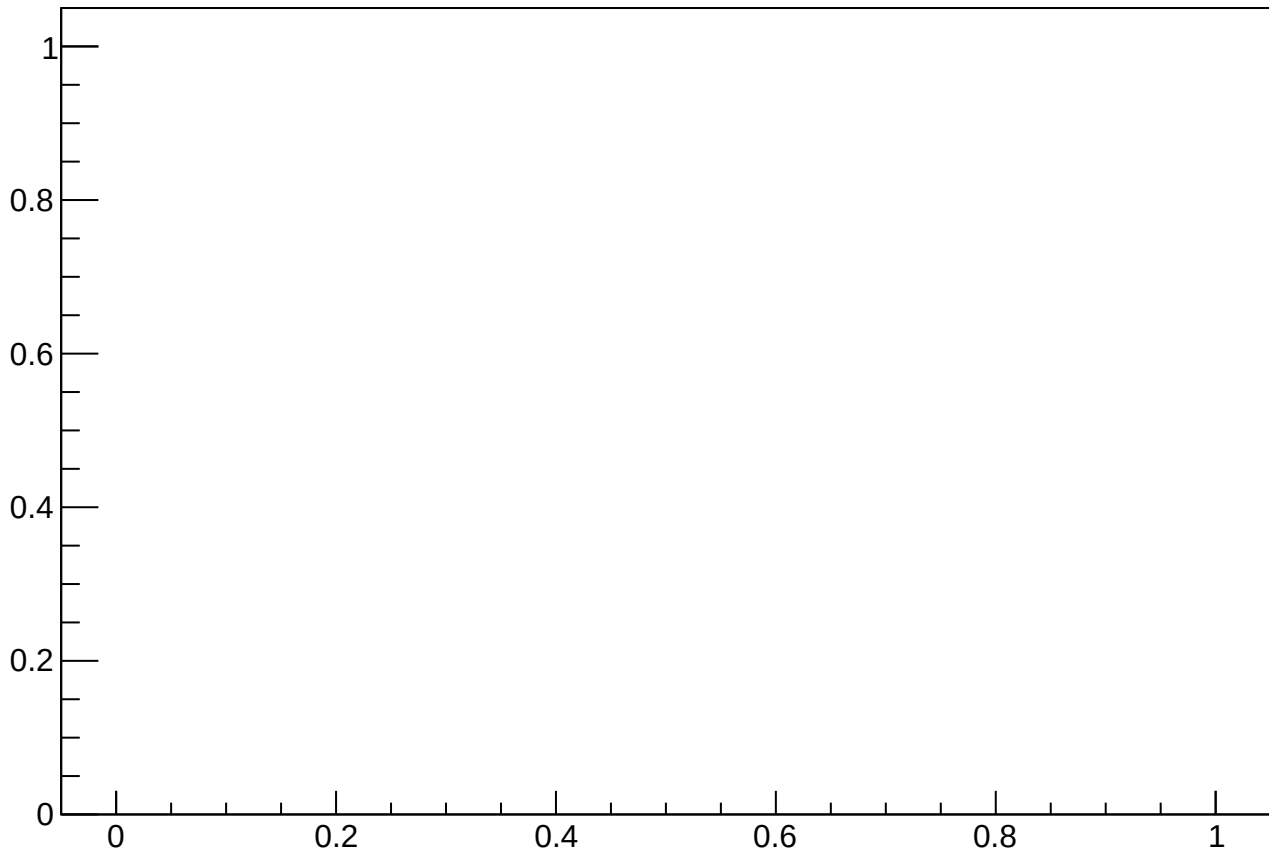
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atr1\_coil6\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_atr1\_coil6\_err\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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

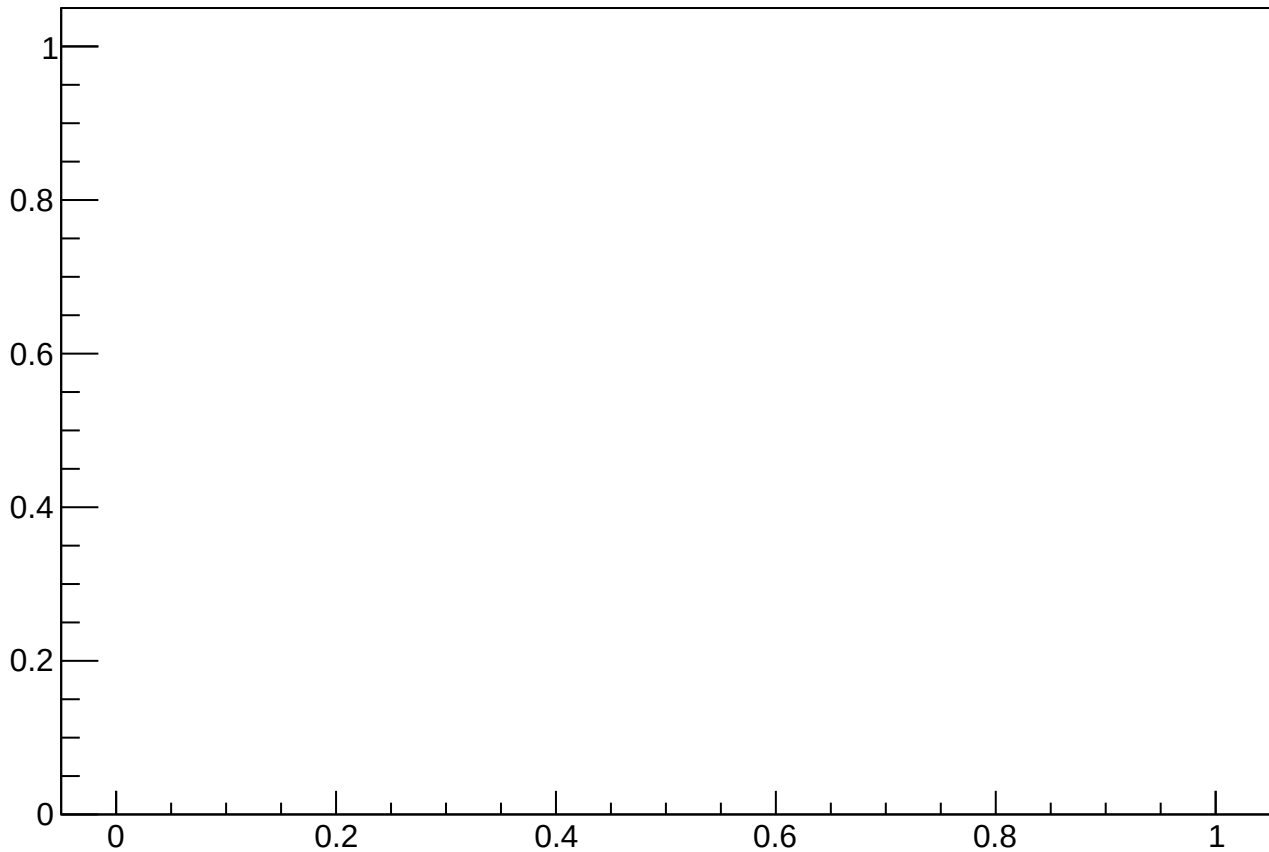
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

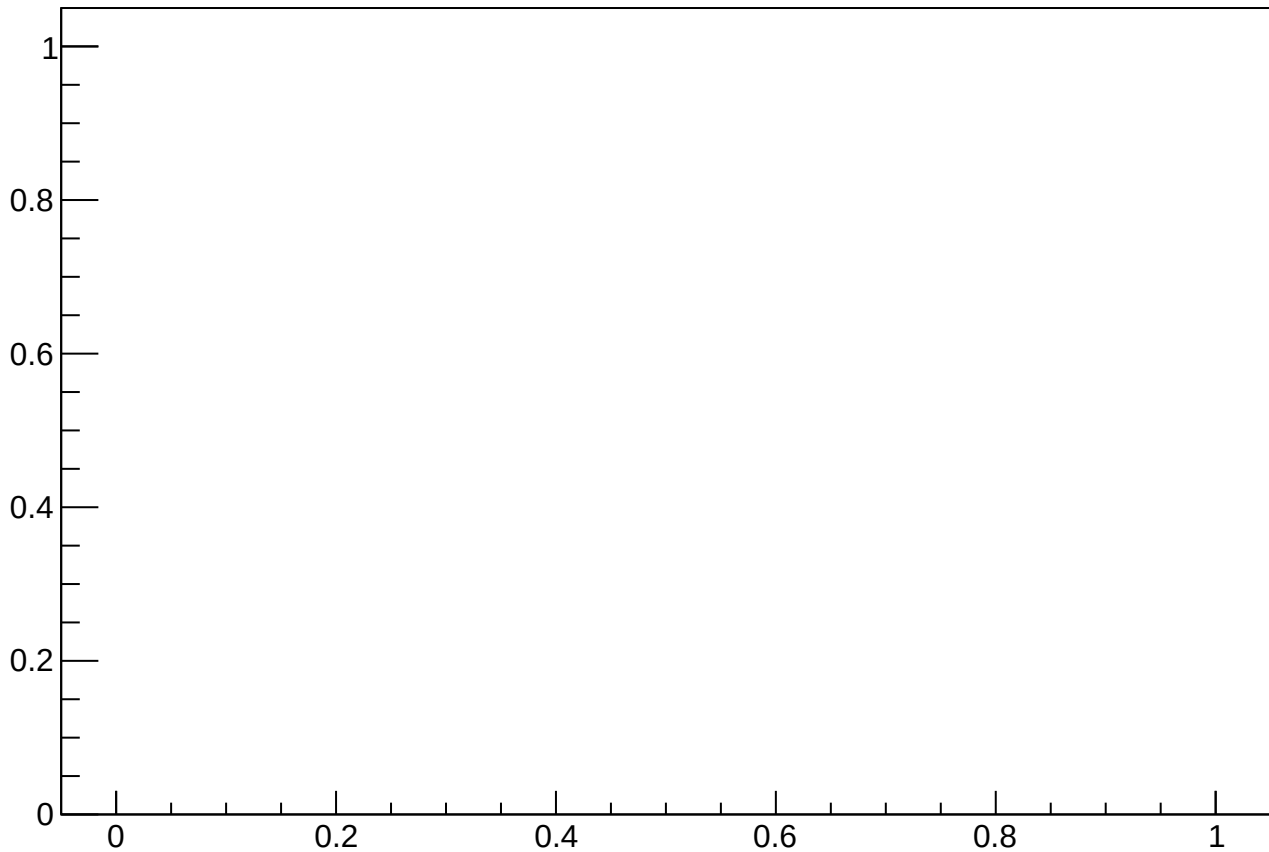
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_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

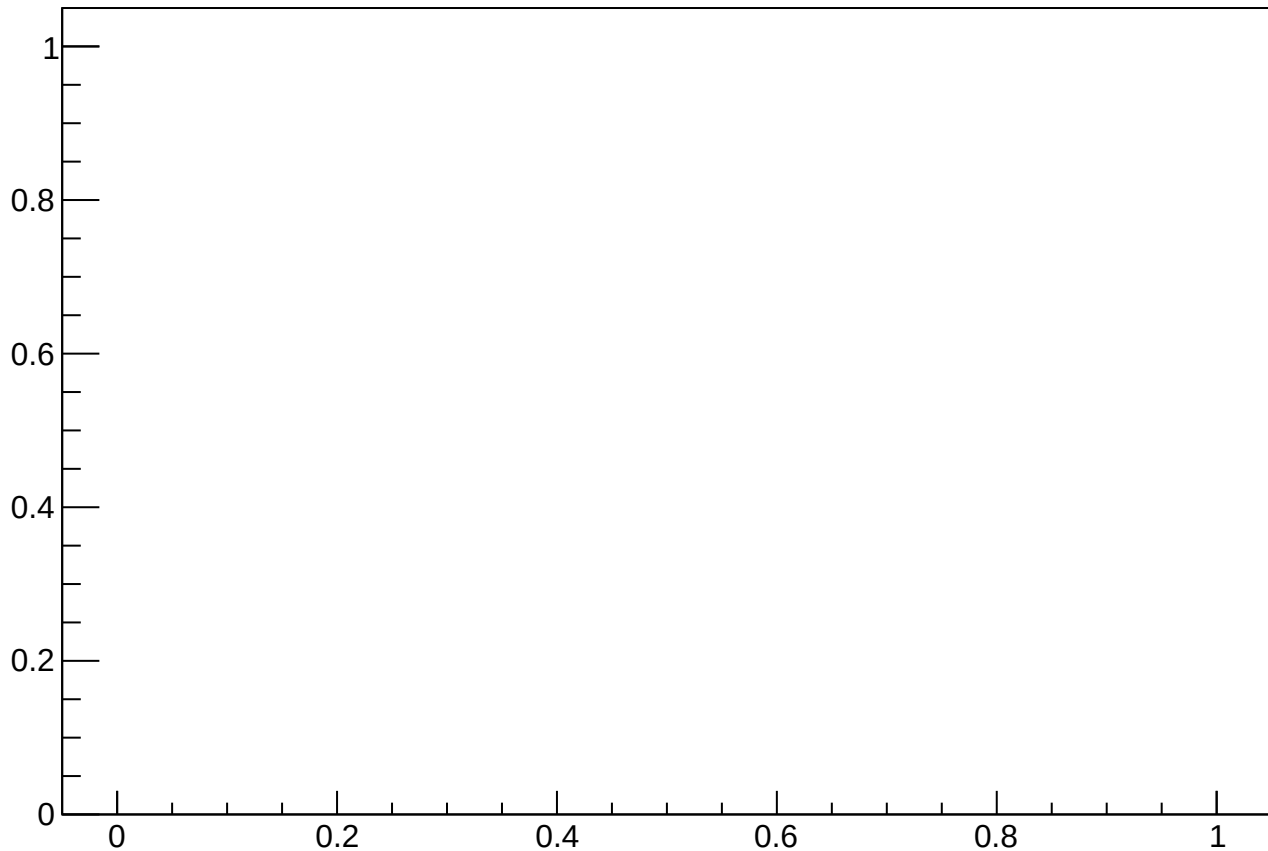
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

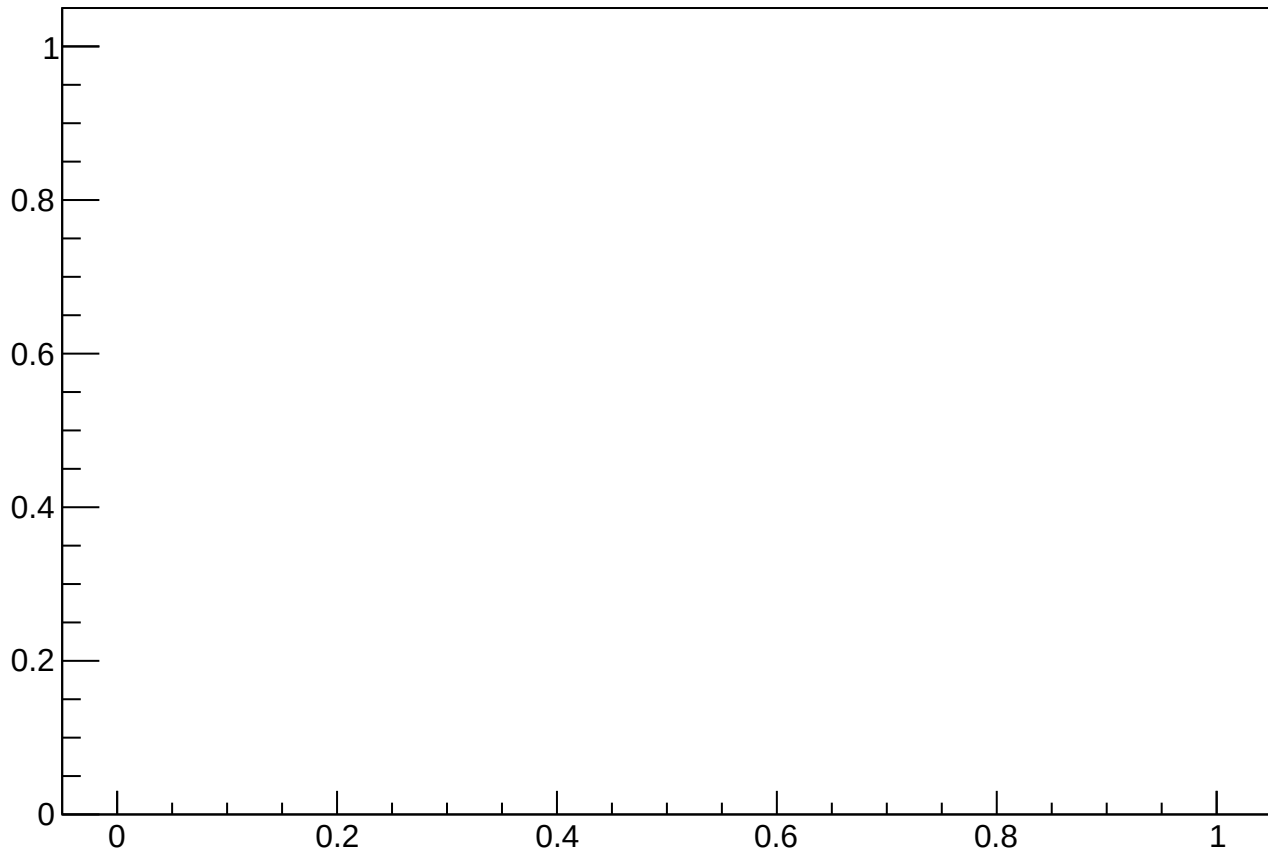
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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

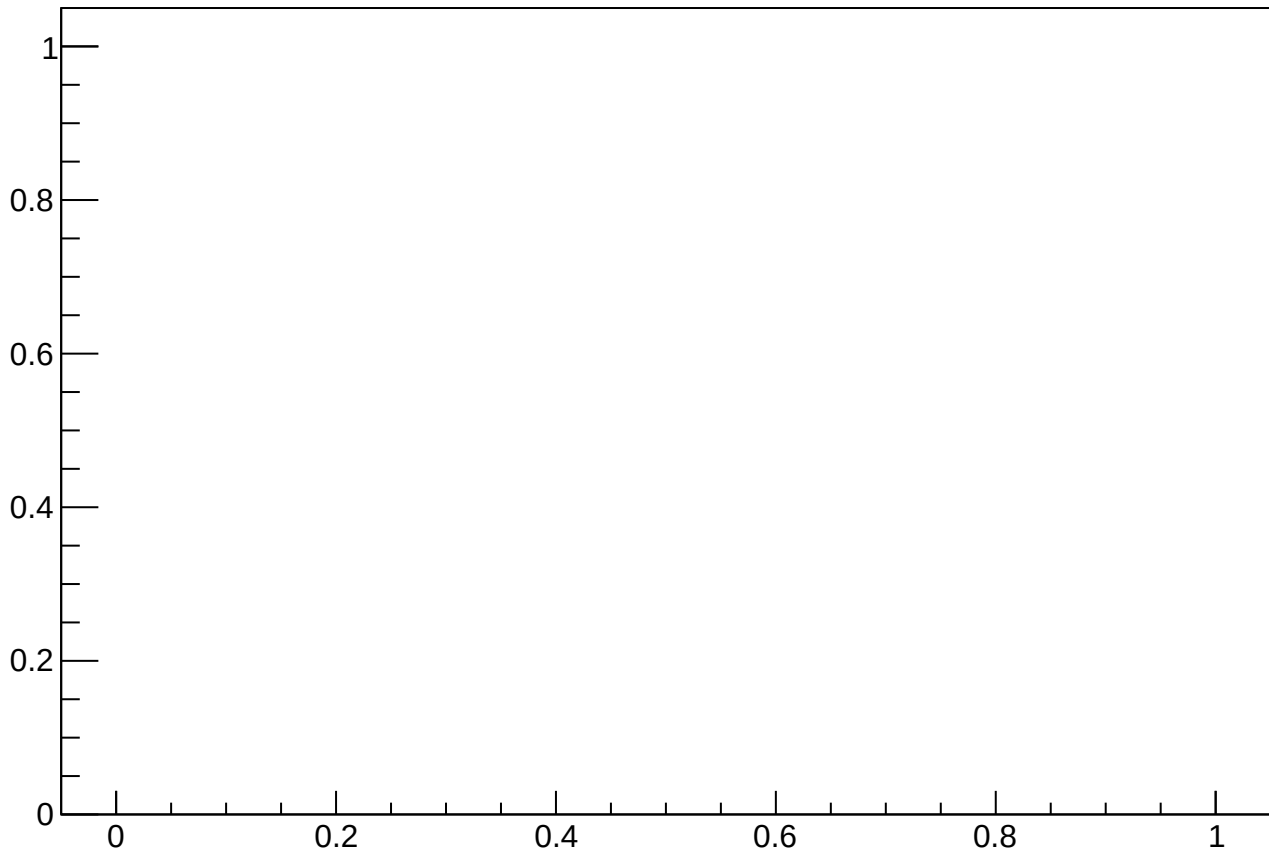
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

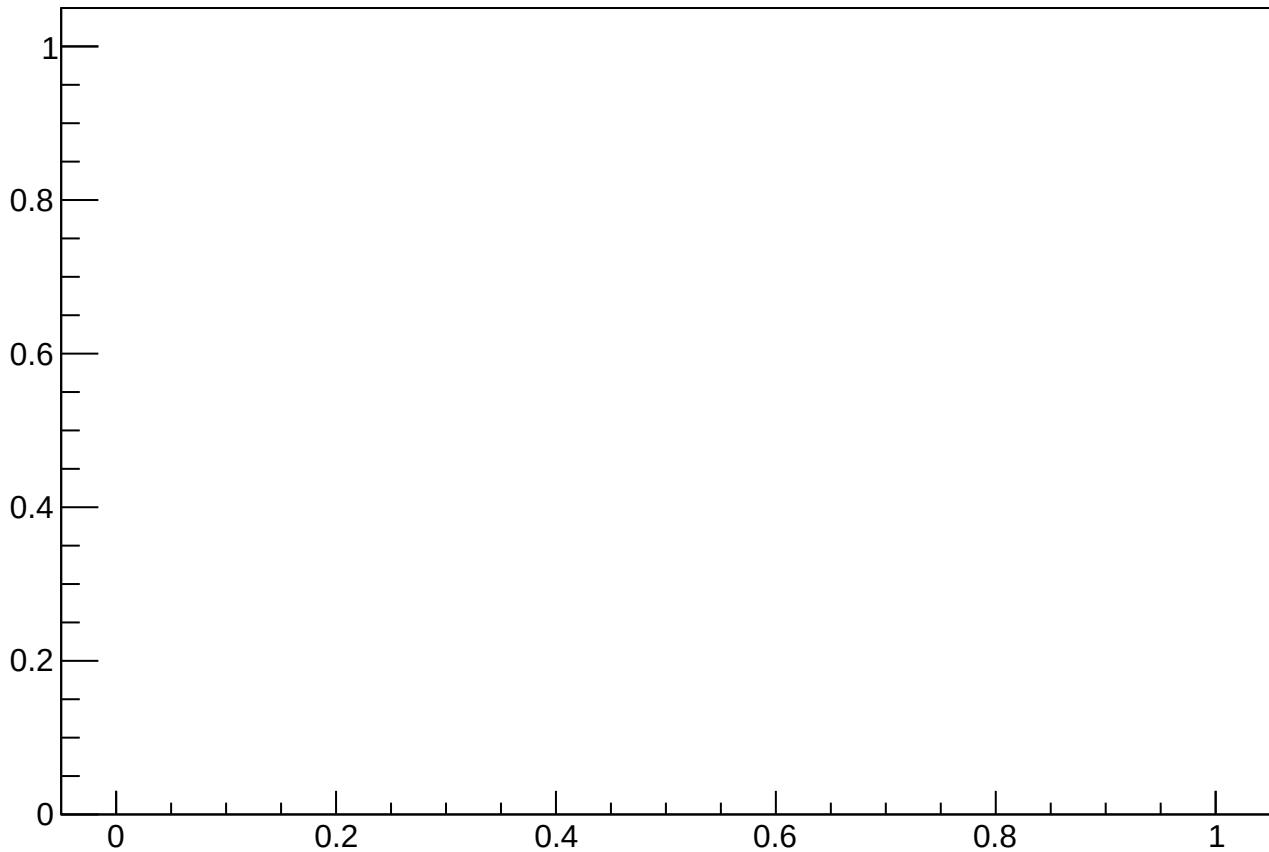
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_run\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_slug\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

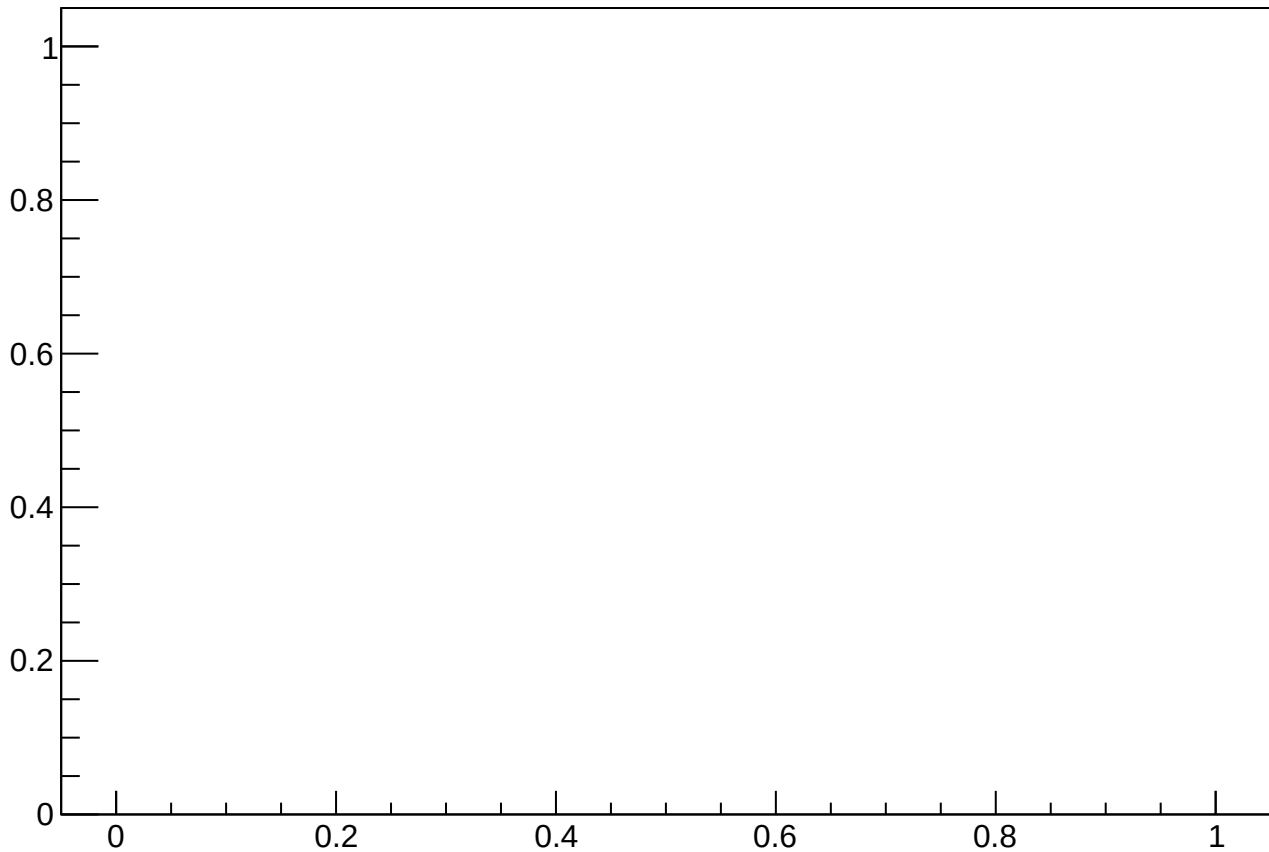
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_scandata1\_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

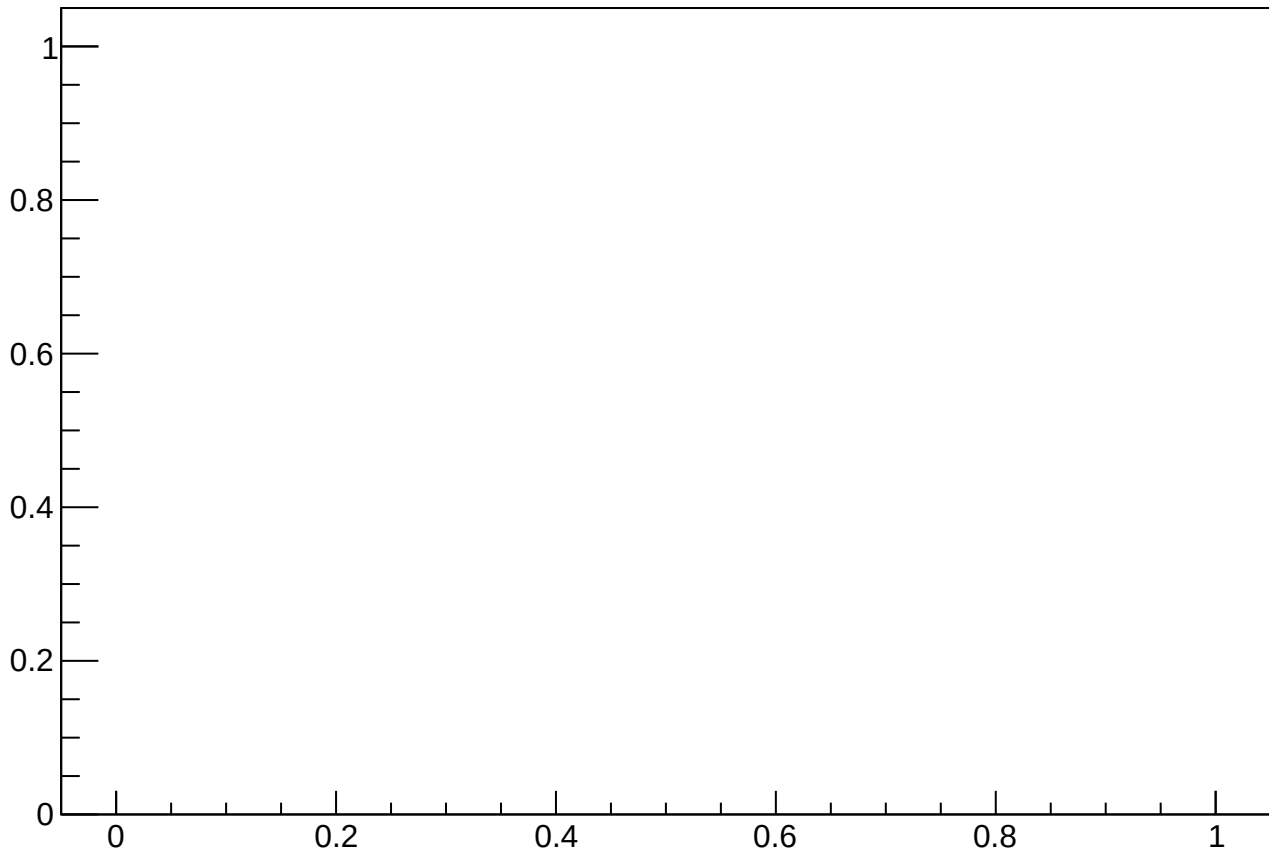
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ 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\_scandata2\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

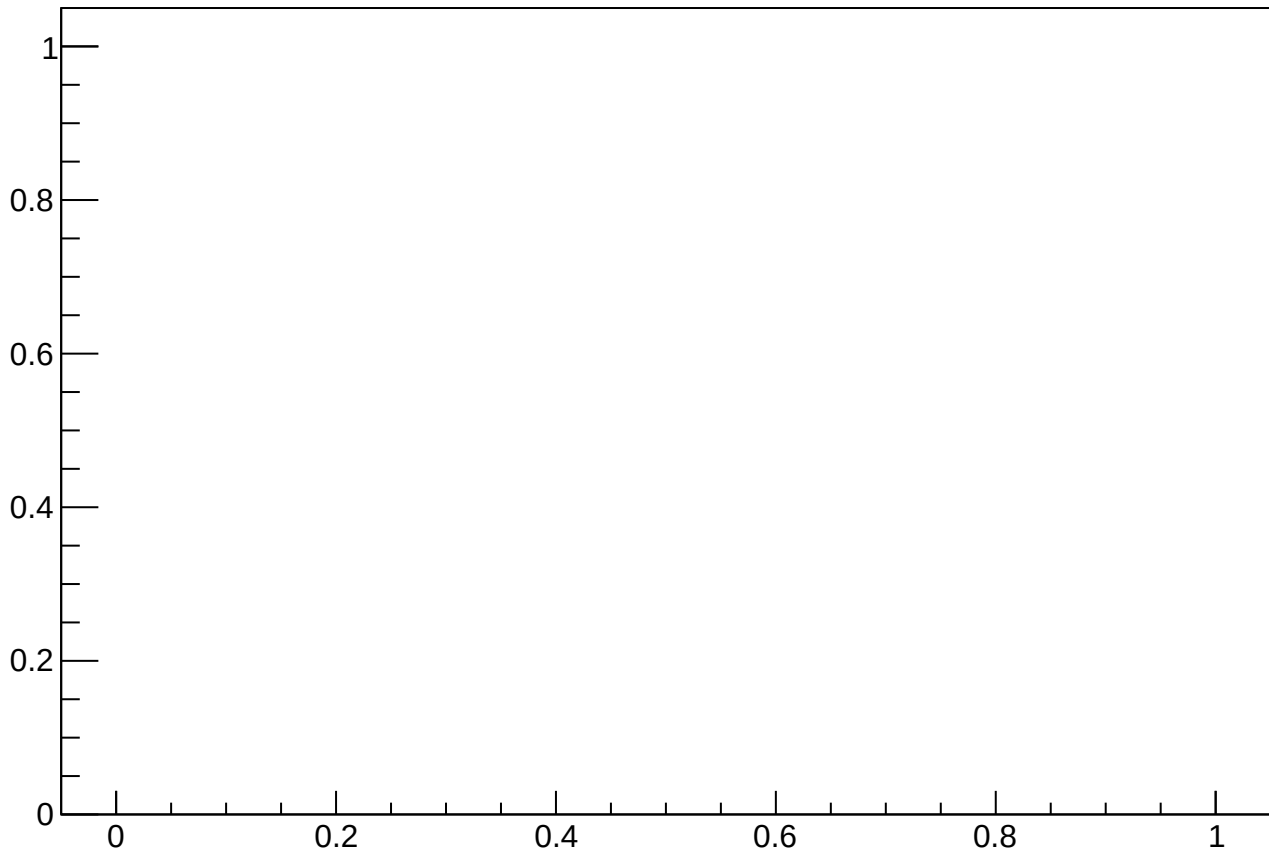
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata2\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

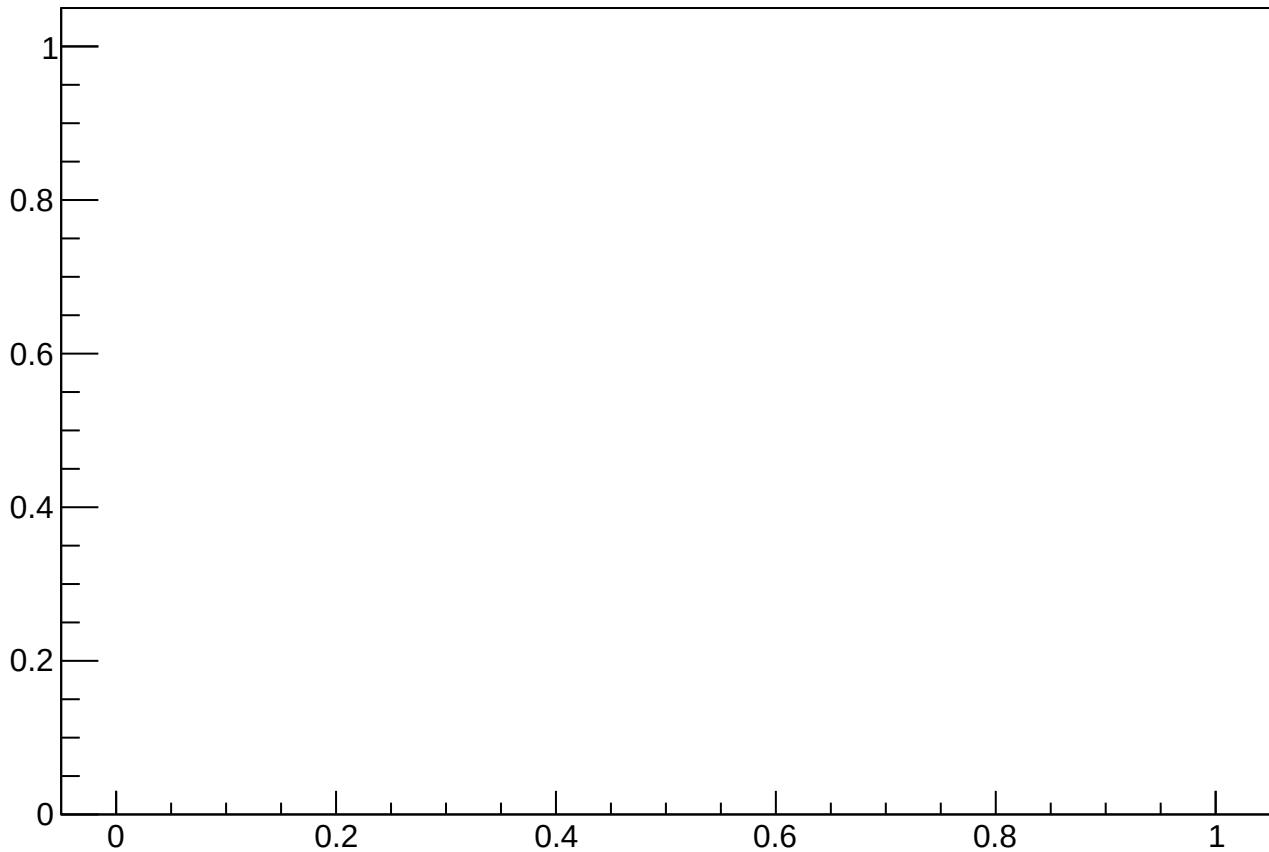
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_flag\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 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\_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

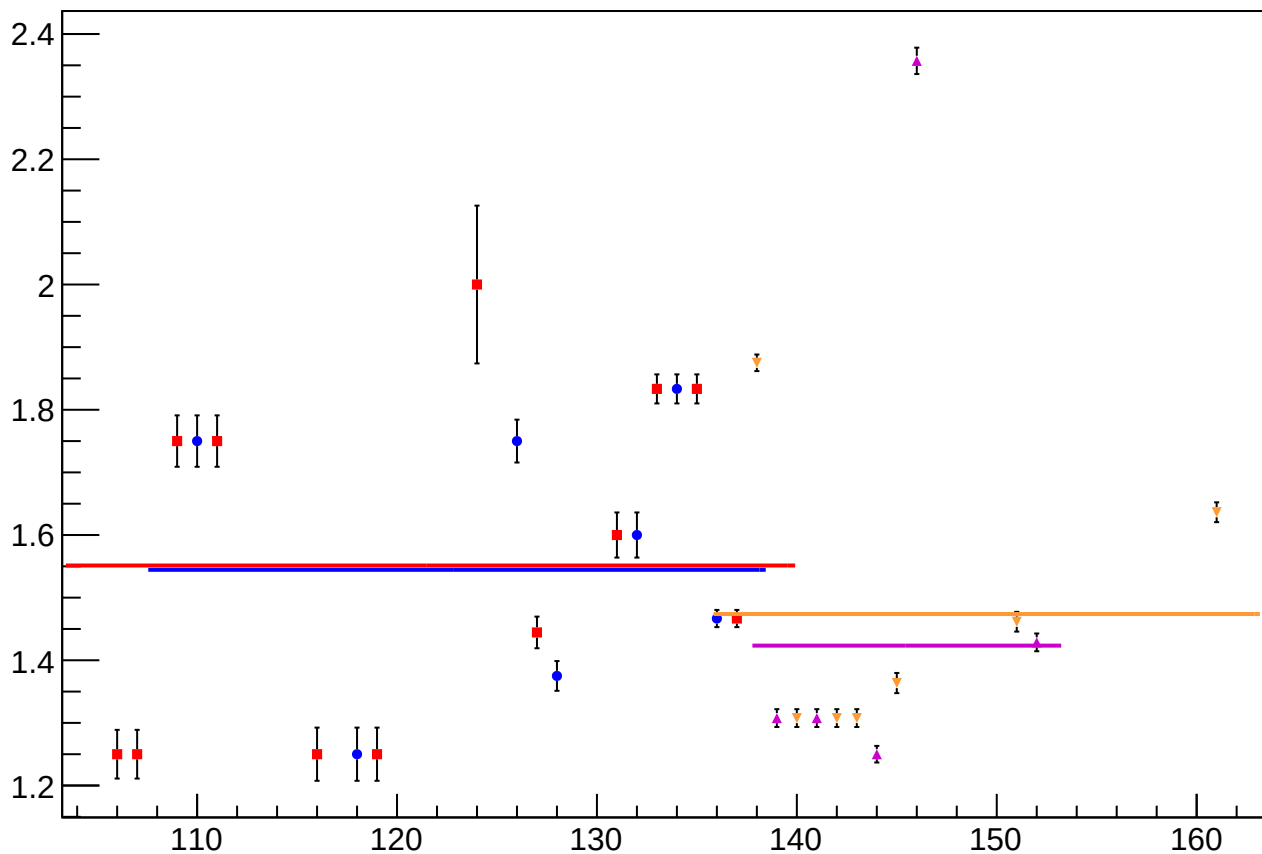
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ 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: 1.474 $\pm$ 0.006  $\chi^2$ /NDF:1480.3/6

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

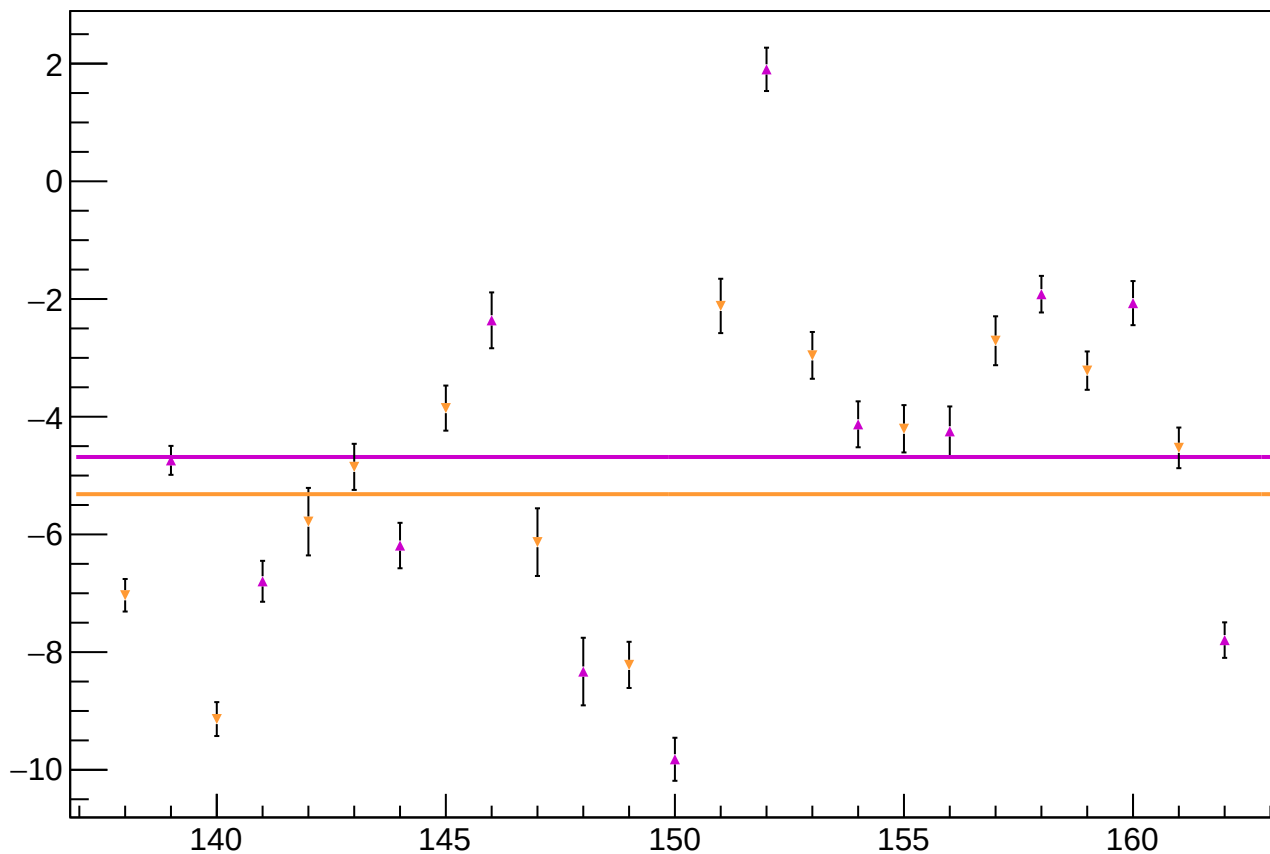
Left In: 1.423 $\pm$ 0.007  $\chi^2$ /NDF:2269.8/4

+ sign 1.493 $\pm$ 0.005  $\chi^2$ /NDF: 1872.9/13

All: 1.484 $\pm$ 0.003  $\chi^2$ /NDF: 4931.5/30

- sign 1.474 $\pm$ 0.005  $\chi^2$ /NDF: 3051.7/16

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug

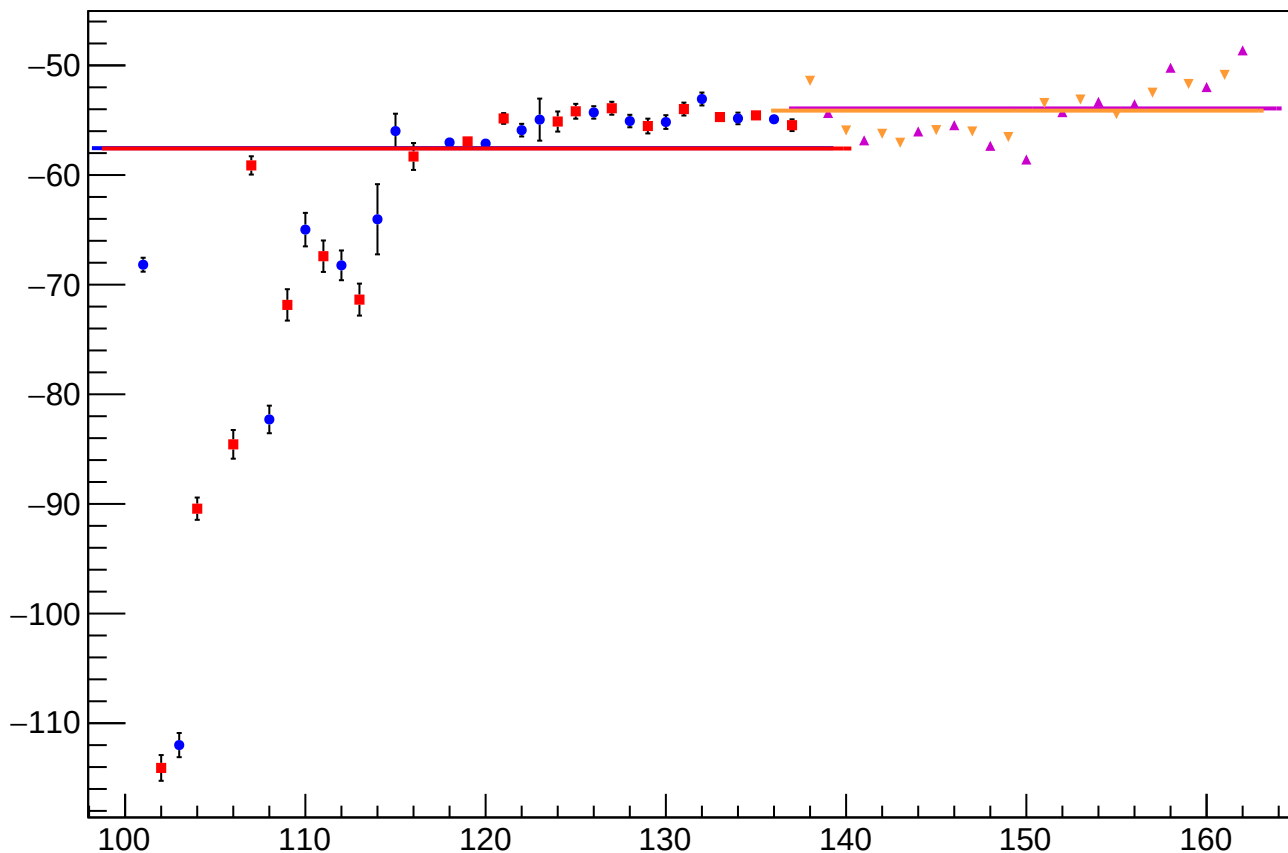


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: -5.316+/-0.104  $\chi^2/\text{NDF}$ : 464.7/12  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -4.684+/-0.103  $\chi^2/\text{NDF}$ : 870.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: -4.996+/-0.073  $\chi^2/\text{NDF}$ : 1353.9/24  
- 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:  $-54.125 \pm 0.076$   $\chi^2/\text{NDF}$ : 790.7/12

Right Out:  $-57.581 \pm 0.143$   $\chi^2/\text{NDF}$ : 4343.8/17

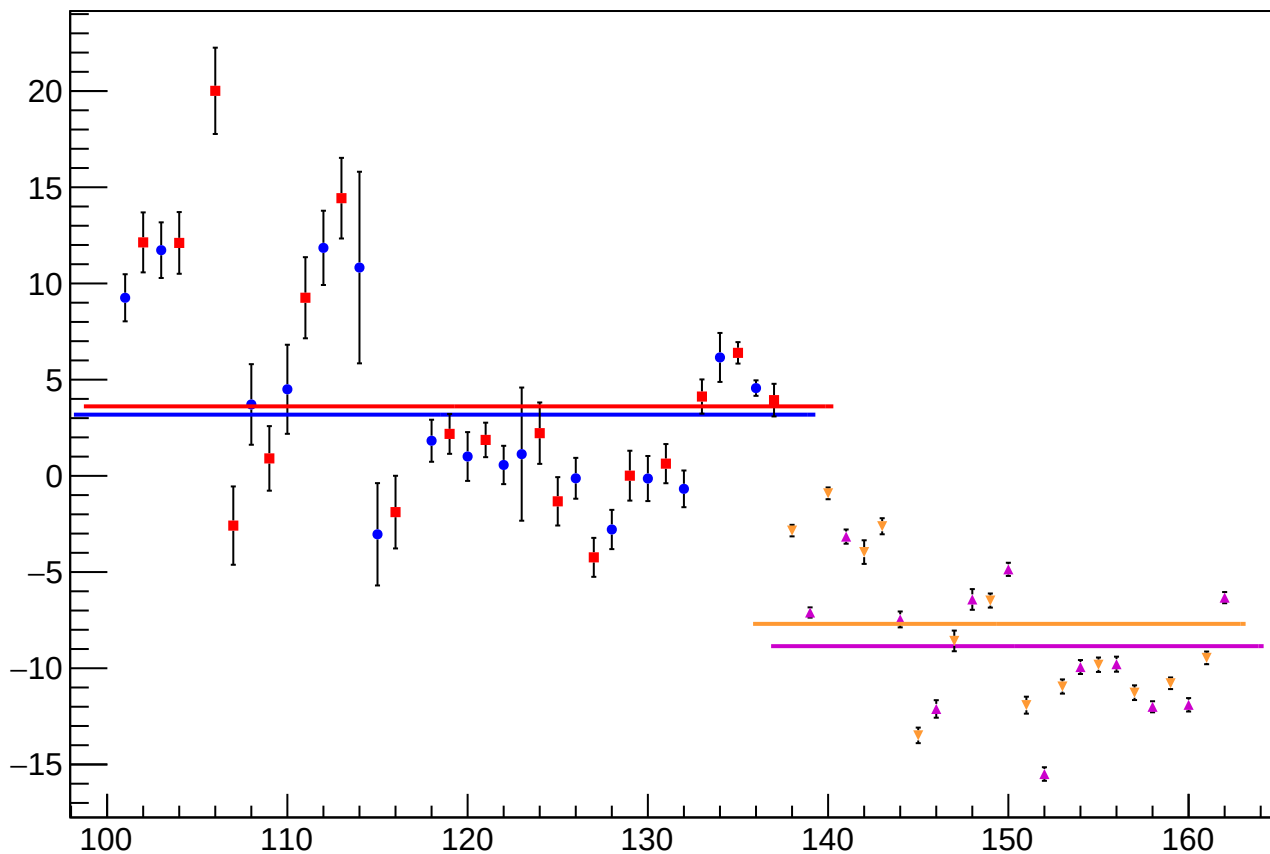
Left In:  $-53.926 \pm 0.078$   $\chi^2/\text{NDF}$ : 1544.3/11

+ sign  $-54.894 \pm 0.067$   $\chi^2/\text{NDF}$ : 4704.7/29

All:  $-54.828 \pm 0.048$   $\chi^2/\text{NDF}$ : 11099.3/59

- sign  $-54.760 \pm 0.068$   $\chi^2/\text{NDF}$ : 6392.7/29

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}$ : 185.2/16

Left Out:  $-7.693 \pm 0.103$   $\chi^2/\text{NDF}$ : 1574.9/12

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}$ : 289.2/17

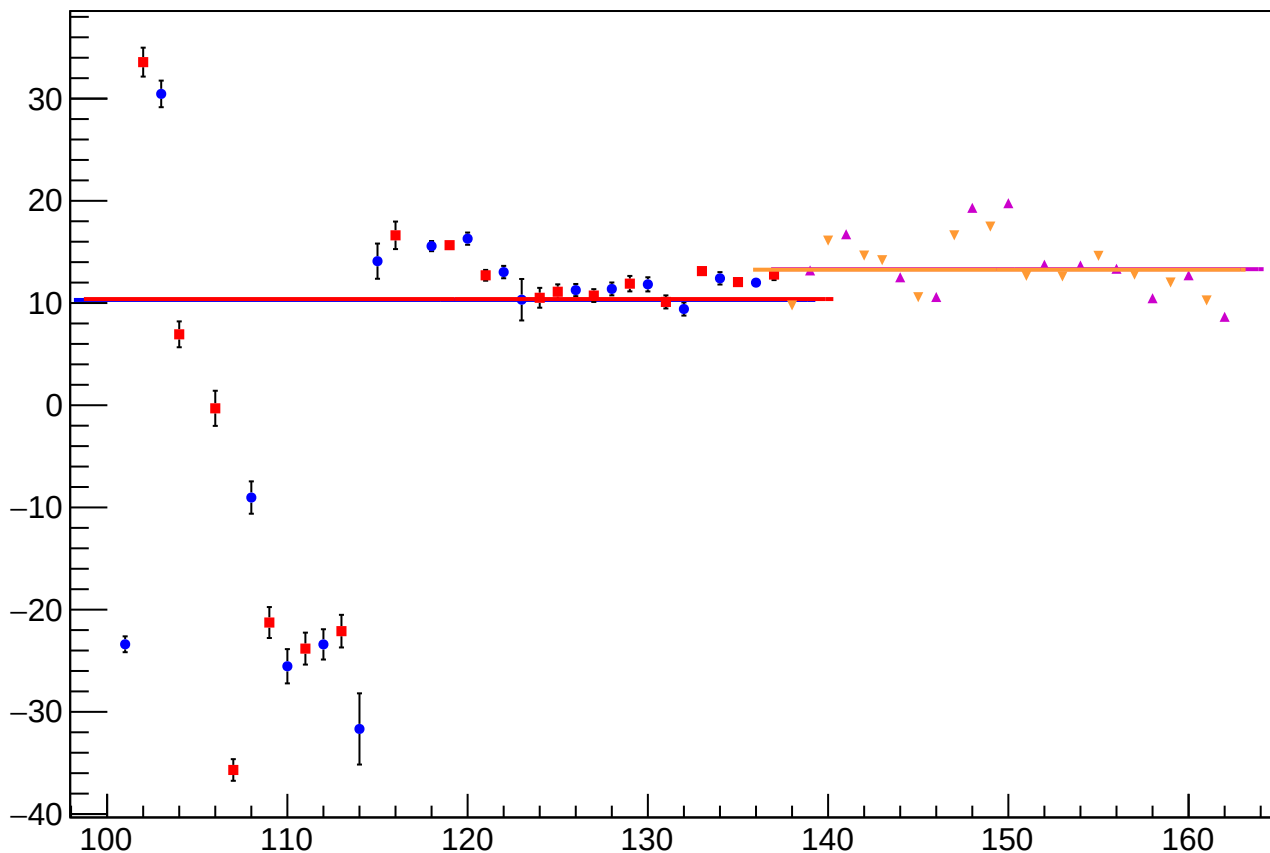
Left In:  $-8.851 \pm 0.101$   $\chi^2/\text{NDF}$ : 1142.0/11

+ sign  $-6.190 \pm 0.096$   $\chi^2/\text{NDF}$ : 3291.1/29

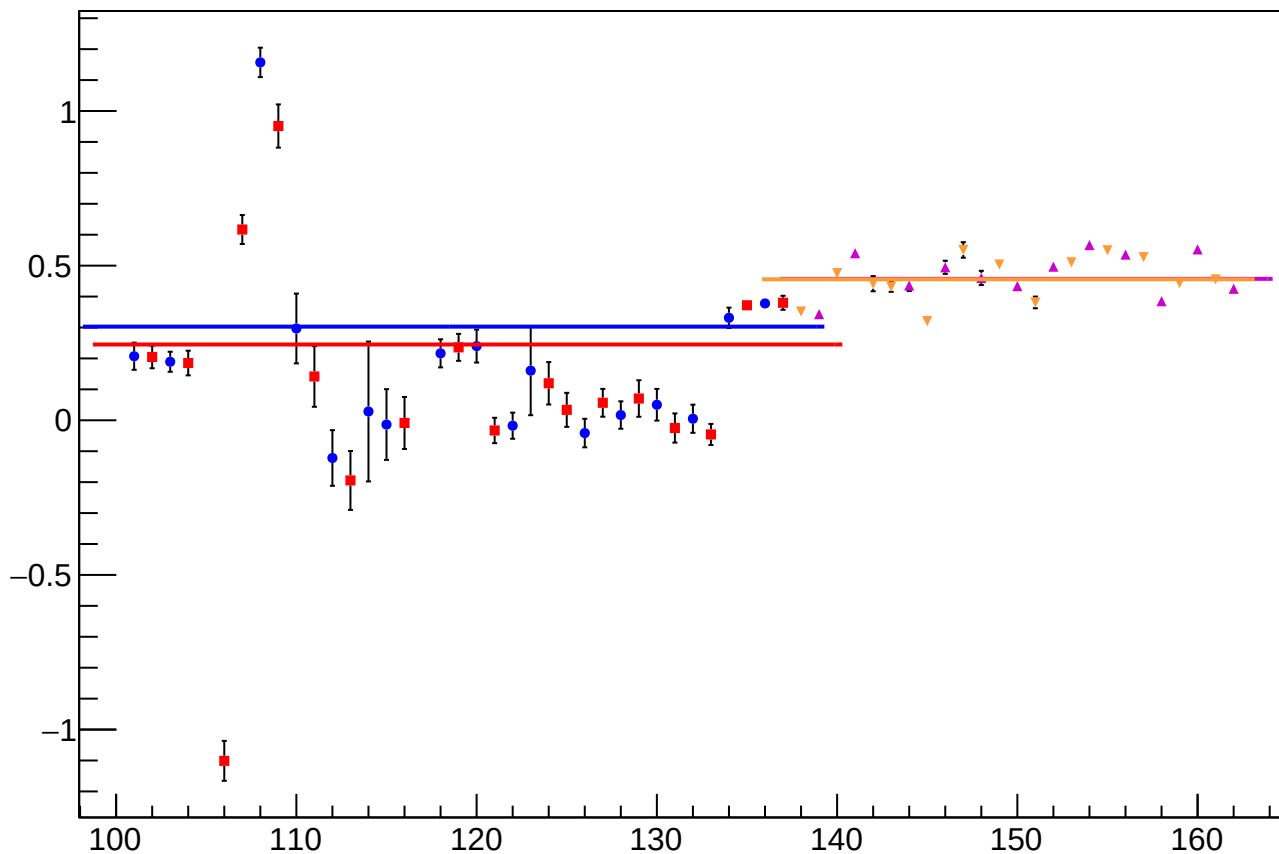
All:  $-6.757 \pm 0.067$   $\chi^2/\text{NDF}$ : 6687.6/59

- sign  $-7.306 \pm 0.094$   $\chi^2/\text{NDF}$ : 3327.7/29

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 647.2/16

Left Out:  $0.456 \pm 0.004$   $\chi^2/\text{NDF}$ : 299.9/12

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

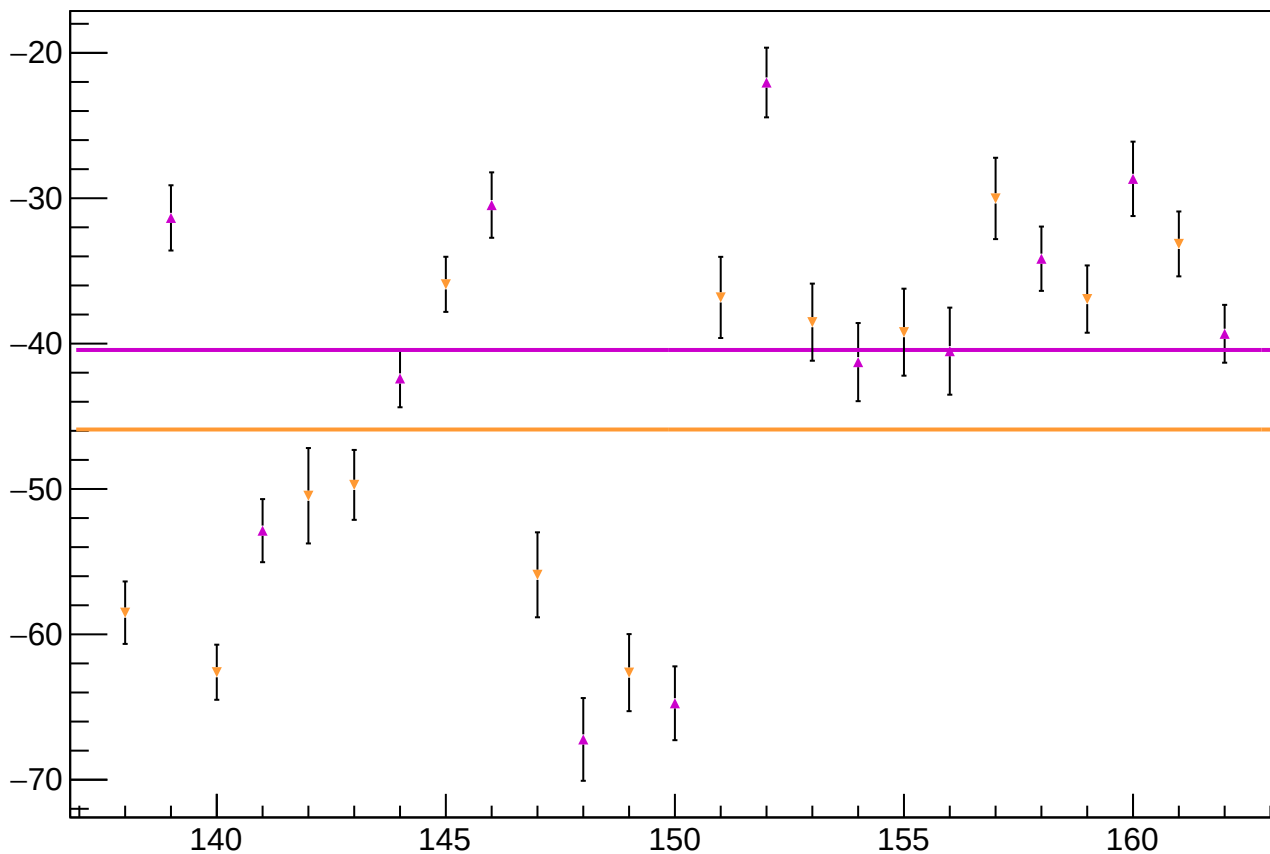
Left In:  $0.457 \pm 0.004$   $\chi^2/\text{NDF}$ : 417.2/11

+ sign  $0.427 \pm 0.004$   $\chi^2/\text{NDF}$ : 1229.7/29

All:  $0.424 \pm 0.002$   $\chi^2/\text{NDF}$ : 3119.4/59

- sign  $0.422 \pm 0.003$   $\chi^2/\text{NDF}$ : 1888.5/29

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -45.909+/-0.675  $\chi^2/\text{NDF}$ : 299.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

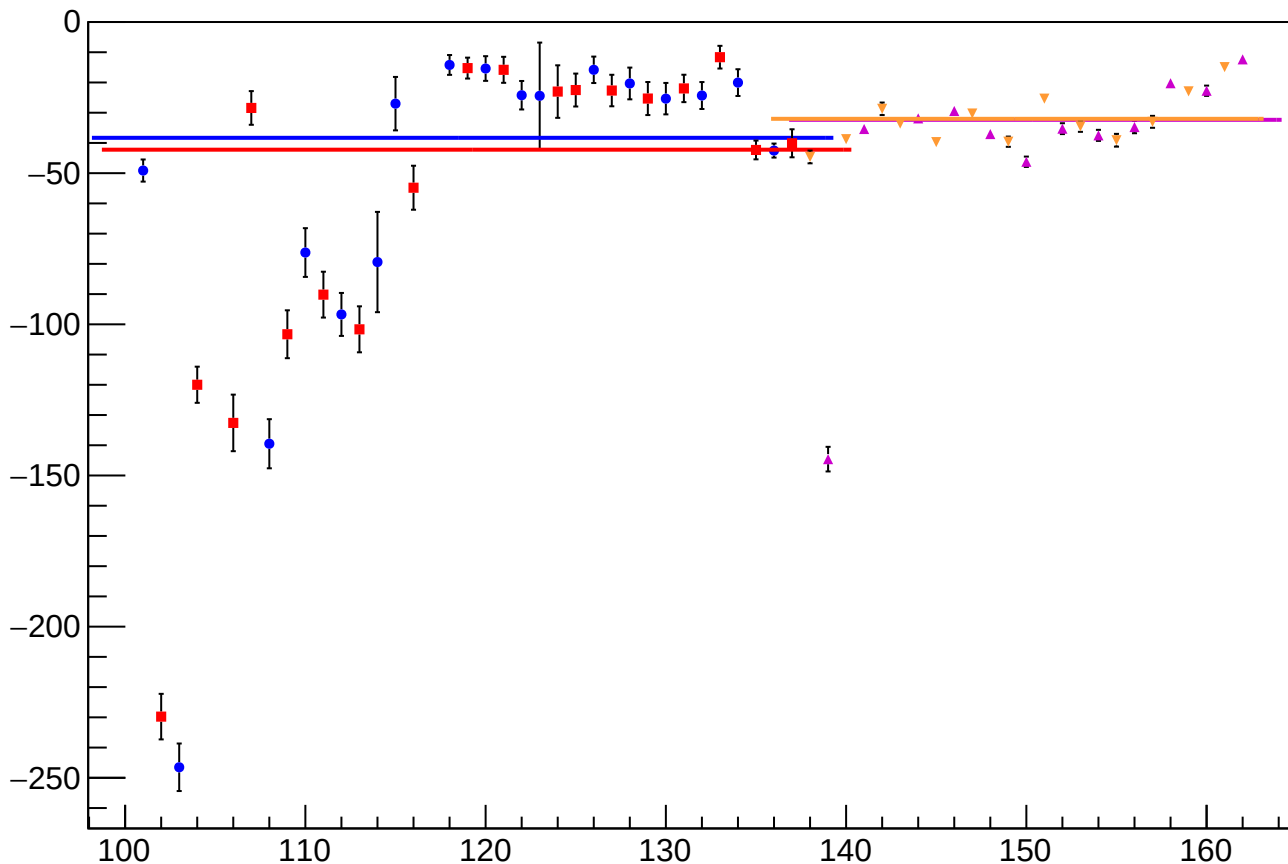
Left In: -40.437+/-0.678  $\chi^2/\text{NDF}$ : 338.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -43.186+/-0.478  $\chi^2/\text{NDF}$ : 670.3/24

- 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:  $-32.020 \pm 0.472$   $\chi^2/\text{NDF}: 287.2/12$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

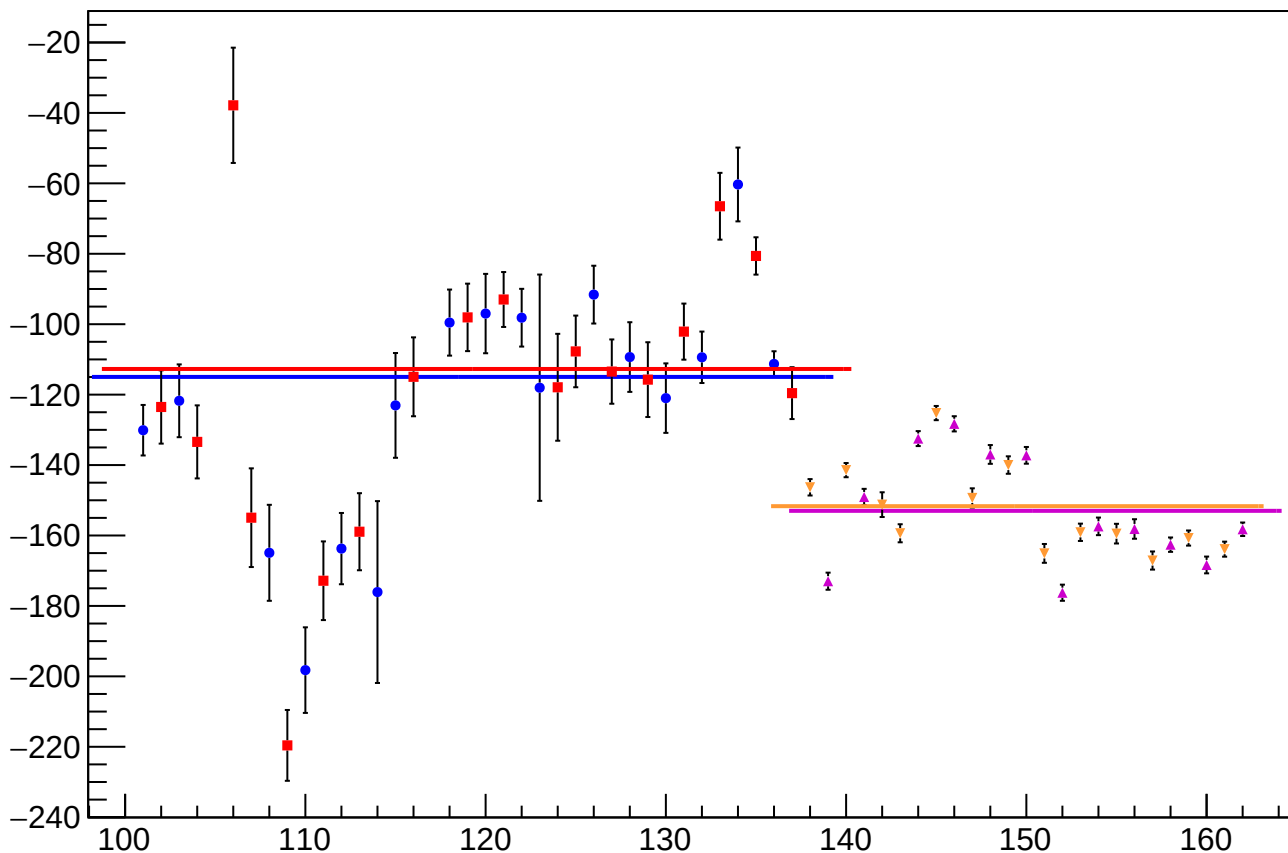
Left In:  $-32.352 \pm 0.478$   $\chi^2/\text{NDF}: 1110.8/11$

+ sign  $-32.941 \pm 0.436$   $\chi^2/\text{NDF}: 1446.0/29$

All:  $-33.307 \pm 0.311$   $\chi^2/\text{NDF}: 3894.1/59$

- sign  $-33.687 \pm 0.445$   $\chi^2/\text{NDF}: 2446.6/29$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}$ : 141.4/16

Left Out:  $-151.675 \pm 0.670$   $\chi^2/\text{NDF}$ : 363.3/12

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}$ : 267.1/17

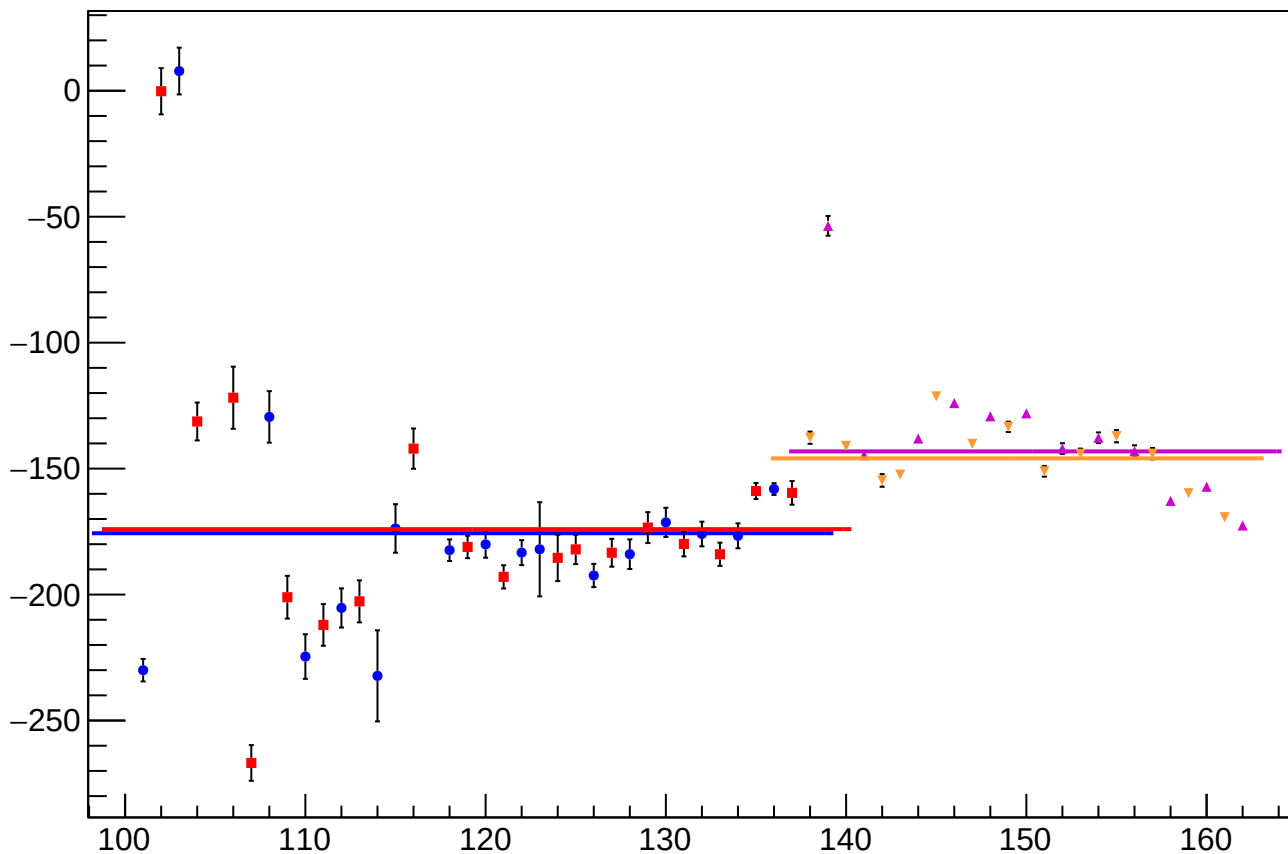
Left In:  $-152.998 \pm 0.662$   $\chi^2/\text{NDF}$ : 555.6/11

+ sign  $-148.206 \pm 0.638$   $\chi^2/\text{NDF}$ : 788.1/29

All:  $-148.947 \pm 0.450$   $\chi^2/\text{NDF}$ : 1918.4/59

- sign  $-149.680 \pm 0.634$   $\chi^2/\text{NDF}$ : 1127.6/29

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-145.919 \pm 0.556$   $\chi^2/\text{NDF}$ : 567.2/12

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

Left In:  $-143.156 \pm 0.556$   $\chi^2/\text{NDF}$ : 1292.0/11

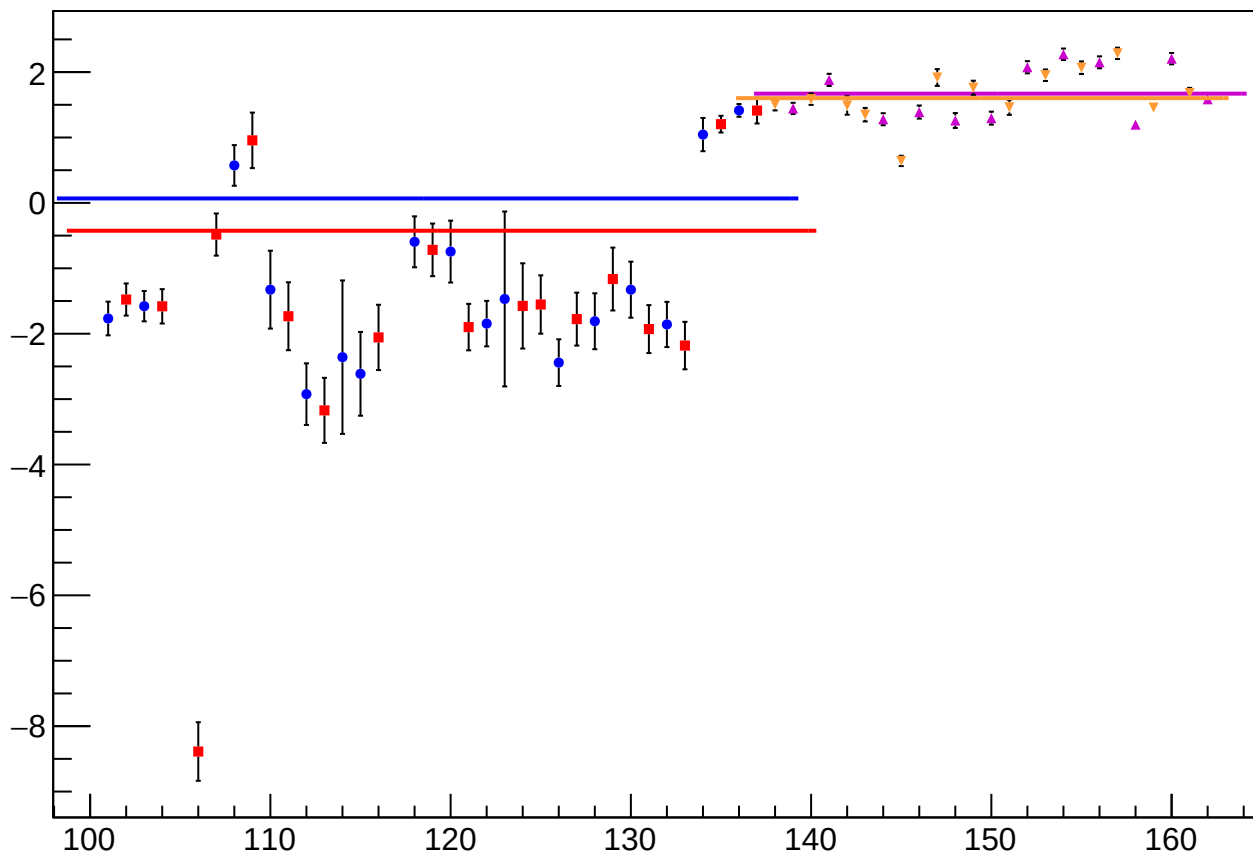
+ sign  $-150.703 \pm 0.509$   $\chi^2/\text{NDF}$ : 1719.8/29

All:  $-149.171 \pm 0.362$   $\chi^2/\text{NDF}$ : 4177.6/59

- sign  $-147.606 \pm 0.515$   $\chi^2/\text{NDF}$ : 2439.5/29



# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $0.068 \pm 0.067$   $\chi^2/\text{NDF}: 525.9/16$

Left Out:  $1.602 \pm 0.026$   $\chi^2/\text{NDF}: 270.4/12$

Right Out:  $-0.425 \pm 0.071$   $\chi^2/\text{NDF}: 742.9/17$

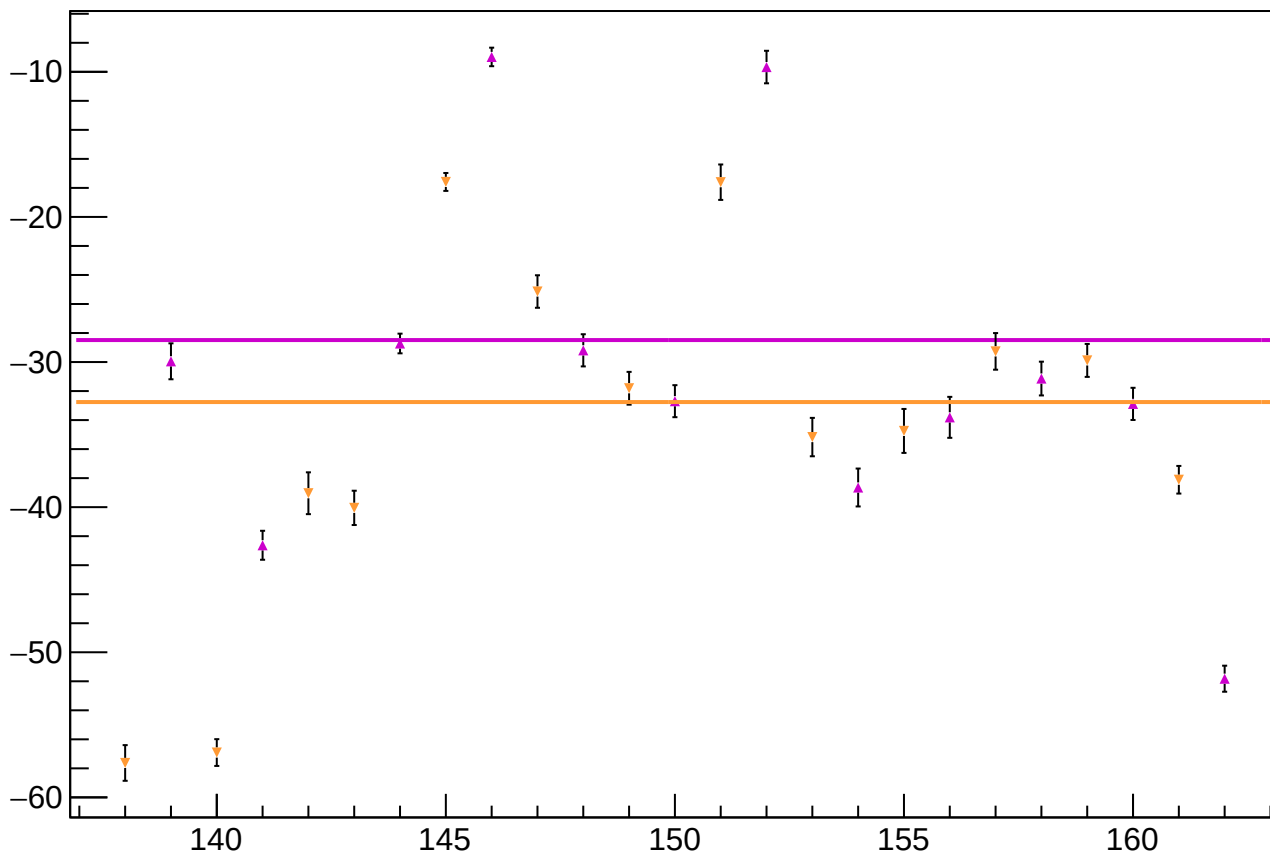
Left In:  $1.671 \pm 0.026$   $\chi^2/\text{NDF}: 239.3/11$

+ sign  $1.400 \pm 0.024$   $\chi^2/\text{NDF}: 1250.9/29$

All:  $1.414 \pm 0.017$   $\chi^2/\text{NDF}: 2998.9/59$

- sign  $1.428 \pm 0.024$   $\chi^2/\text{NDF}: 1747.3/29$

# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-32.757 \pm 0.296$   $\chi^2/\text{NDF}$ : 2007.4/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

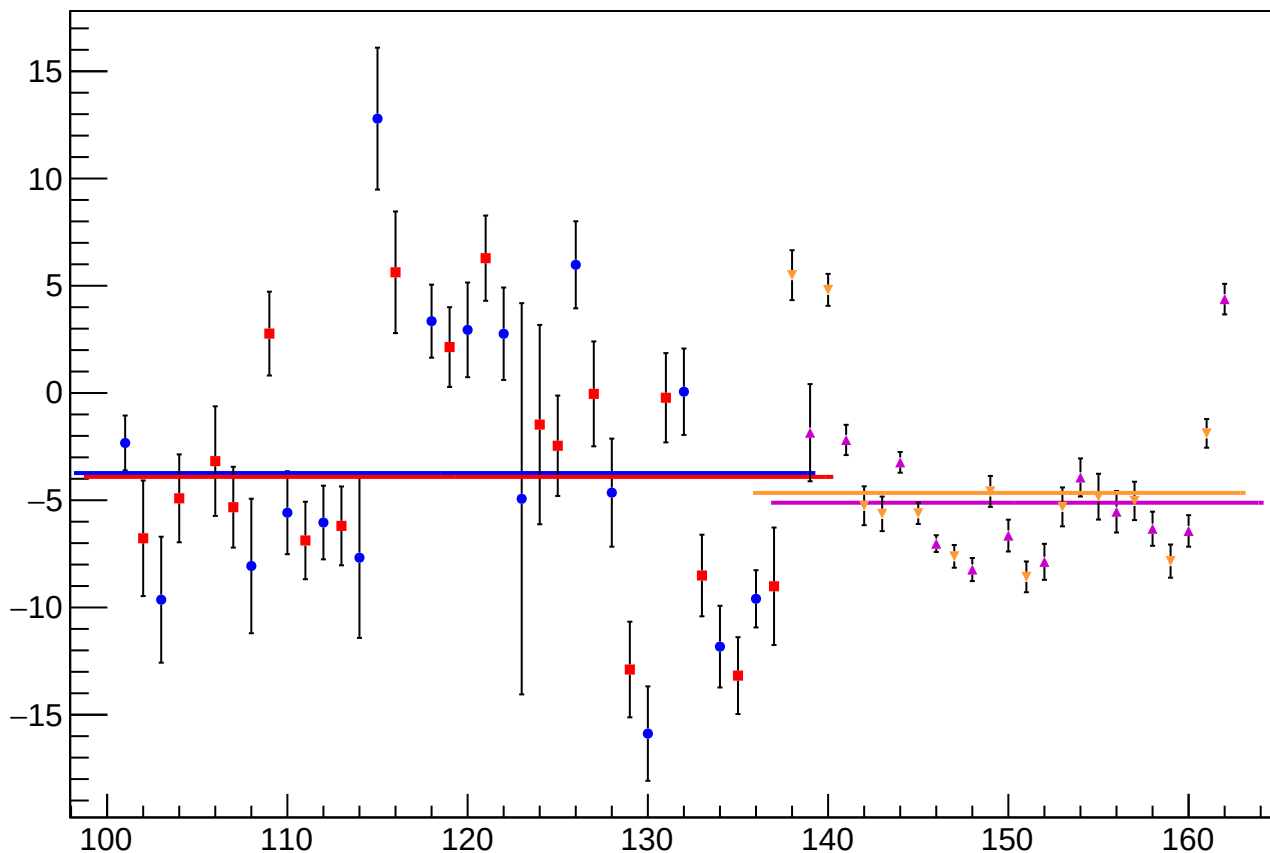
Left In:  $-28.485 \pm 0.282$   $\chi^2/\text{NDF}$ : 2204.0/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-30.517 \pm 0.204$   $\chi^2/\text{NDF}$ : 4320.7/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $-4.659 \pm 0.204$   $\chi^2/\text{NDF}$ : 338.6/12

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.8/17

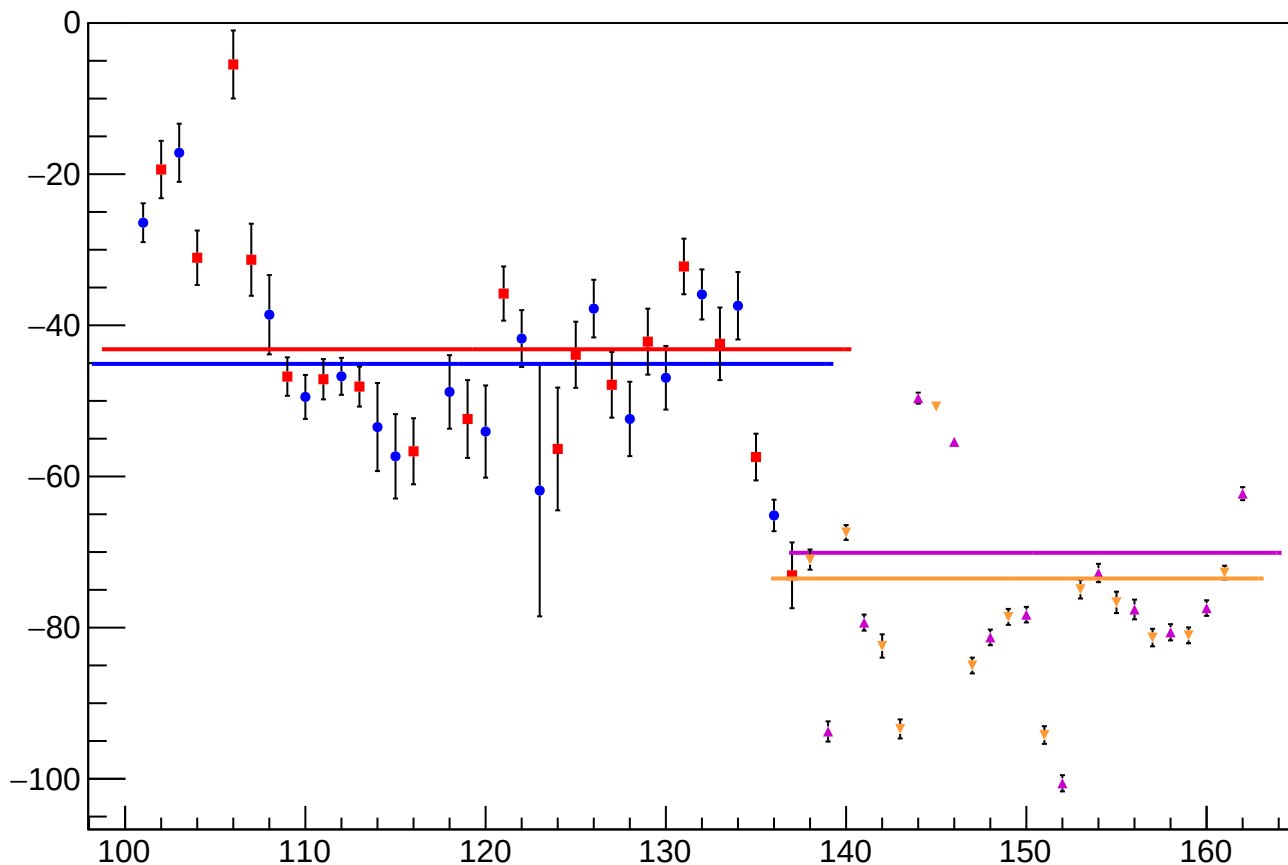
Left In:  $-5.116 \pm 0.191$   $\chi^2/\text{NDF}$ : 291.3/11

+ sign  $-4.524 \pm 0.189$   $\chi^2/\text{NDF}$ : 507.4/29

All:  $-4.758 \pm 0.130$   $\chi^2/\text{NDF}$ : 931.3/59

- sign  $-4.966 \pm 0.179$   $\chi^2/\text{NDF}$ : 421.0/29

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-73.501 \pm 0.294$   $\chi^2/\text{NDF}$ : 2091.1/12

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

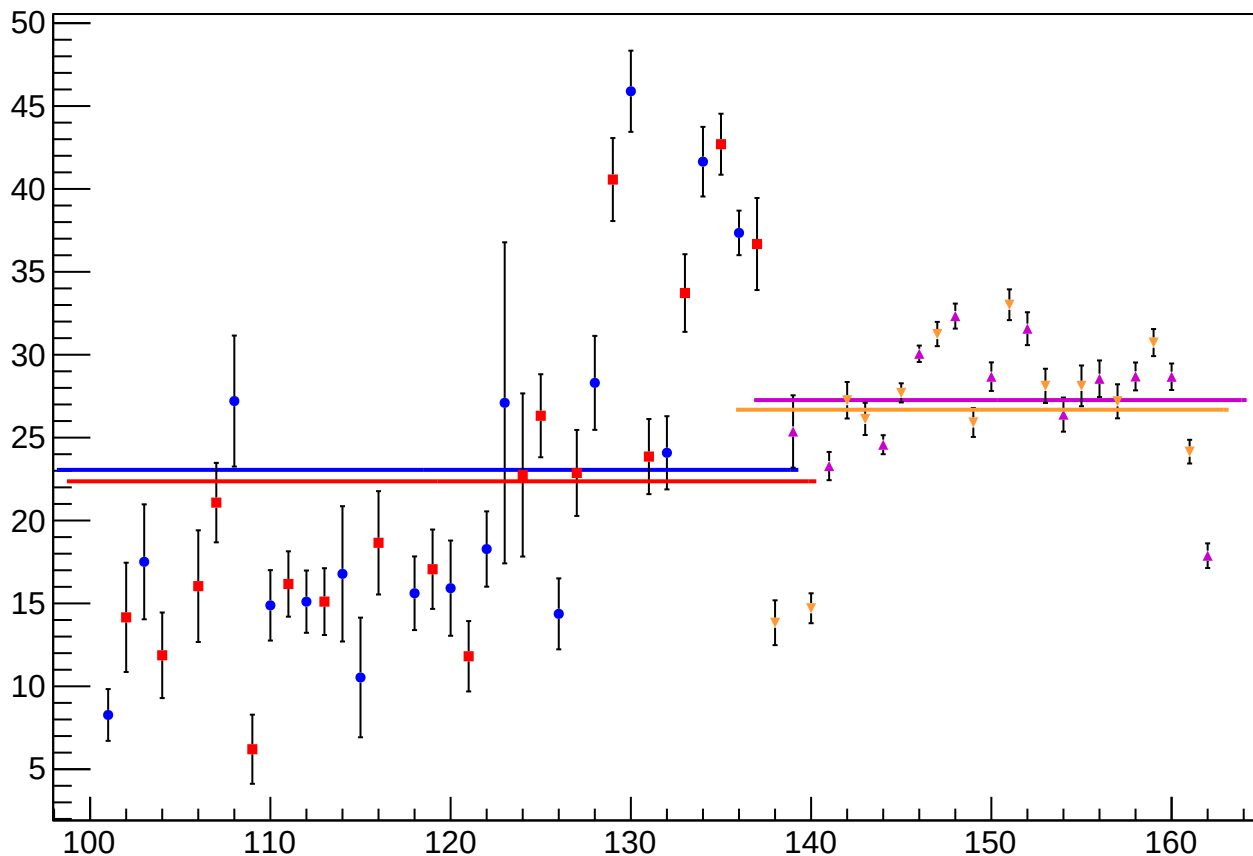
Left In:  $-70.098 \pm 0.276$   $\chi^2/\text{NDF}$ : 3006.5/11

+ sign  $-70.656 \pm 0.279$   $\chi^2/\text{NDF}$ : 3253.4/29

All:  $-69.082 \pm 0.192$   $\chi^2/\text{NDF}$ : 7406.9/59

- sign  $-67.684 \pm 0.263$   $\chi^2/\text{NDF}$ : 4093.6/29

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In:  $23.055 \pm 0.557$   $\chi^2/\text{NDF}$ : 461.1/16

Left Out:  $26.683 \pm 0.242$   $\chi^2/\text{NDF}$ : 396.9/12

Right Out:  $22.365 \pm 0.573$   $\chi^2/\text{NDF}$ : 368.8/17

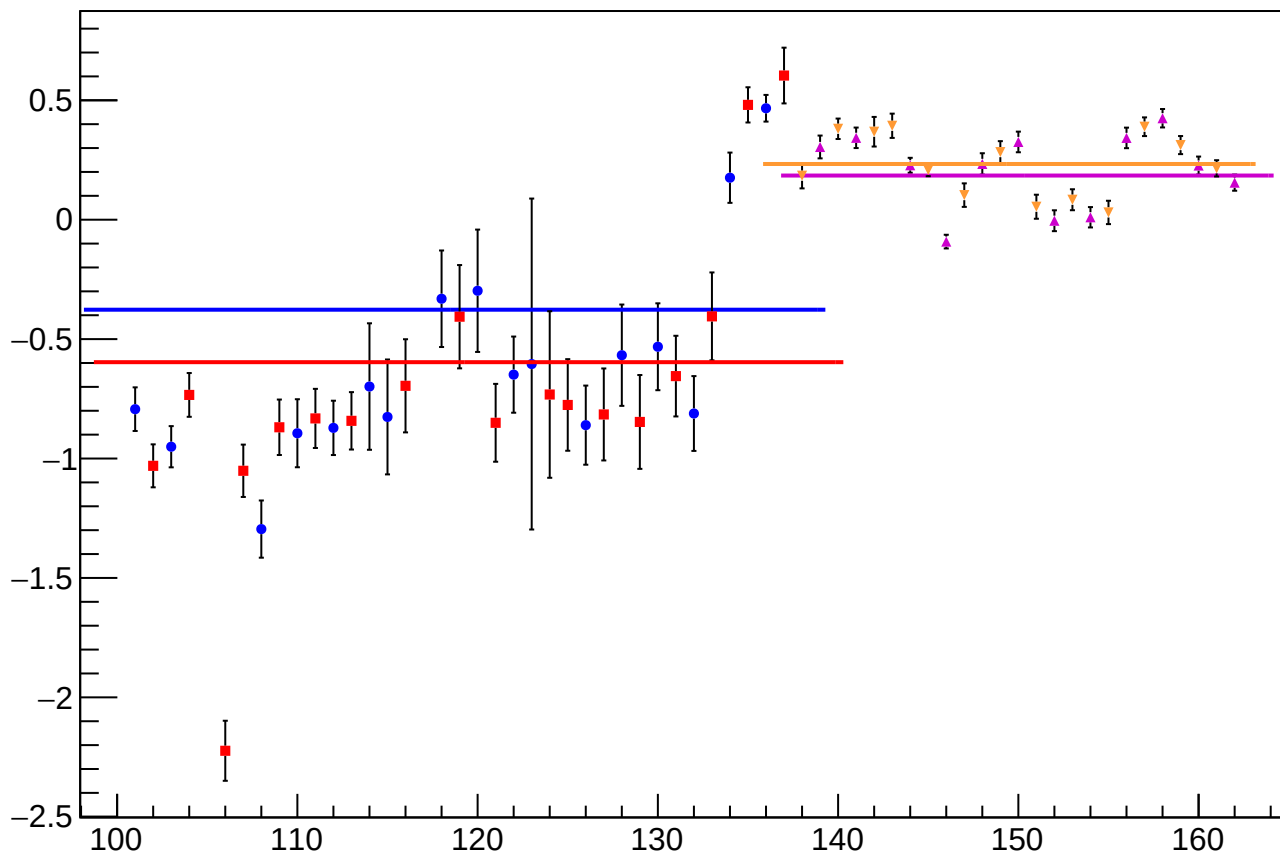
Left In:  $27.265 \pm 0.227$   $\chi^2/\text{NDF}$ : 310.4/11

+ sign  $26.105 \pm 0.222$   $\chi^2/\text{NDF}$ : 893.7/29

All:  $26.365 \pm 0.153$   $\chi^2/\text{NDF}$ : 1638.7/59

- sign  $26.599 \pm 0.211$   $\chi^2/\text{NDF}$ : 742.4/29

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.4/16$

Left Out:  $0.233 \pm 0.012$   $\chi^2/\text{NDF}: 98.6/12$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

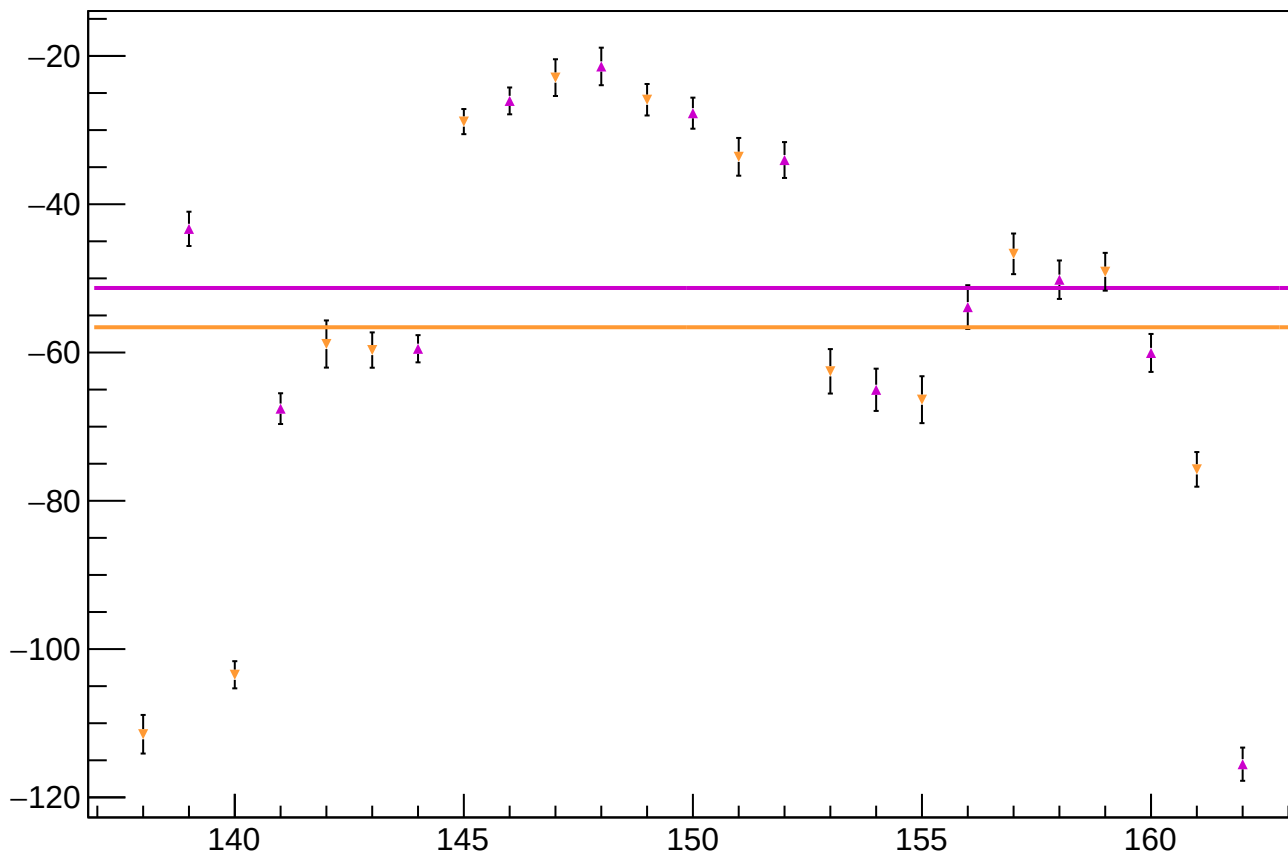
Left In:  $0.185 \pm 0.011$   $\chi^2/\text{NDF}: 216.3/11$

+ sign  $0.155 \pm 0.011$   $\chi^2/\text{NDF}: 894.0/29$

All:  $0.122 \pm 0.007$   $\chi^2/\text{NDF}: 2267.6/59$

- sign  $0.092 \pm 0.010$   $\chi^2/\text{NDF}: 1356.0/29$

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -56.593+/-0.661  $\chi^2/\text{NDF}$ : 1945.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

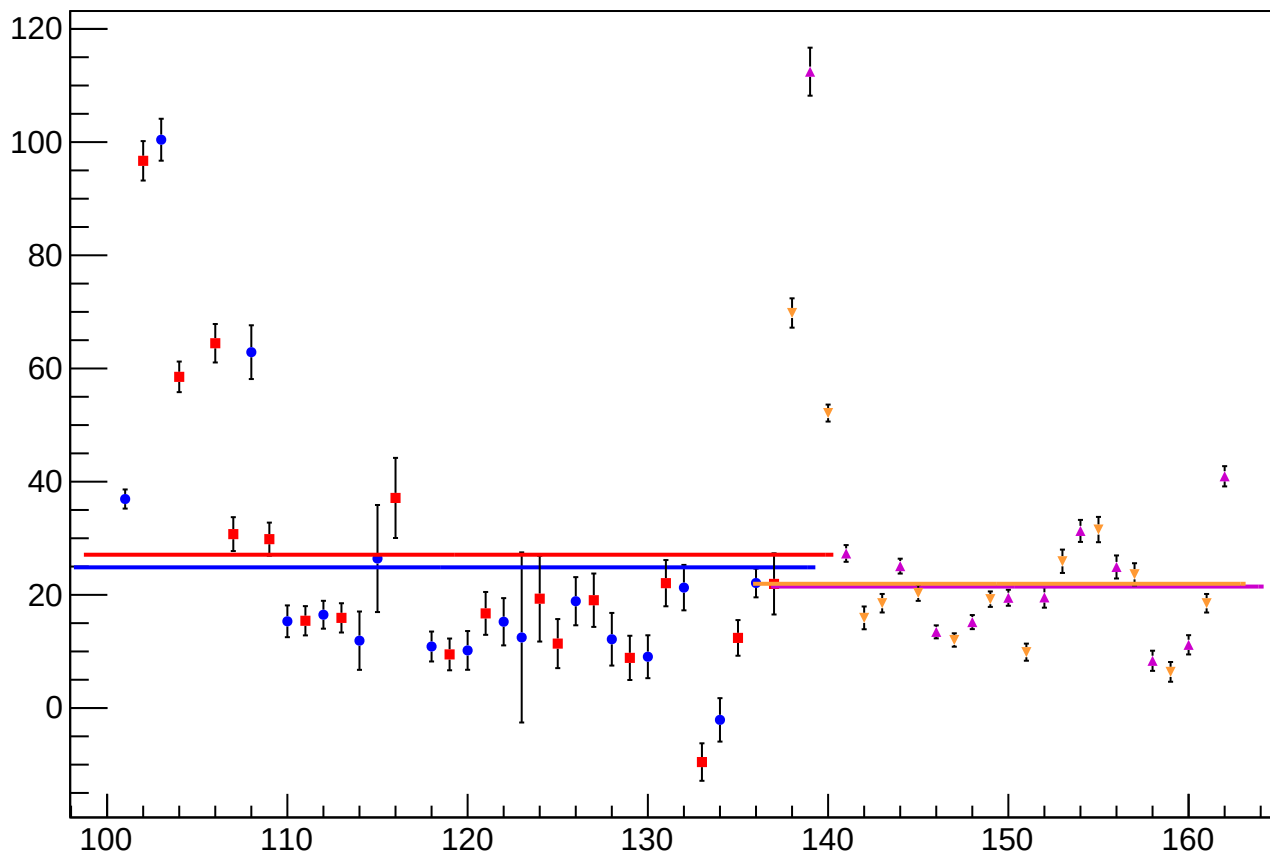
Left In: -51.296+/-0.657  $\chi^2/\text{NDF}$ : 1462.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -53.929+/-0.466  $\chi^2/\text{NDF}$ : 3440.8/24

- 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:  $21.958 \pm 0.456$   $\chi^2/\text{NDF}$ : 1005.2/12

Right Out:  $27.093 \pm 0.812$   $\chi^2/\text{NDF}$ : 930.9/17

Left In:  $21.465 \pm 0.458$   $\chi^2/\text{NDF}$ : 798.0/11

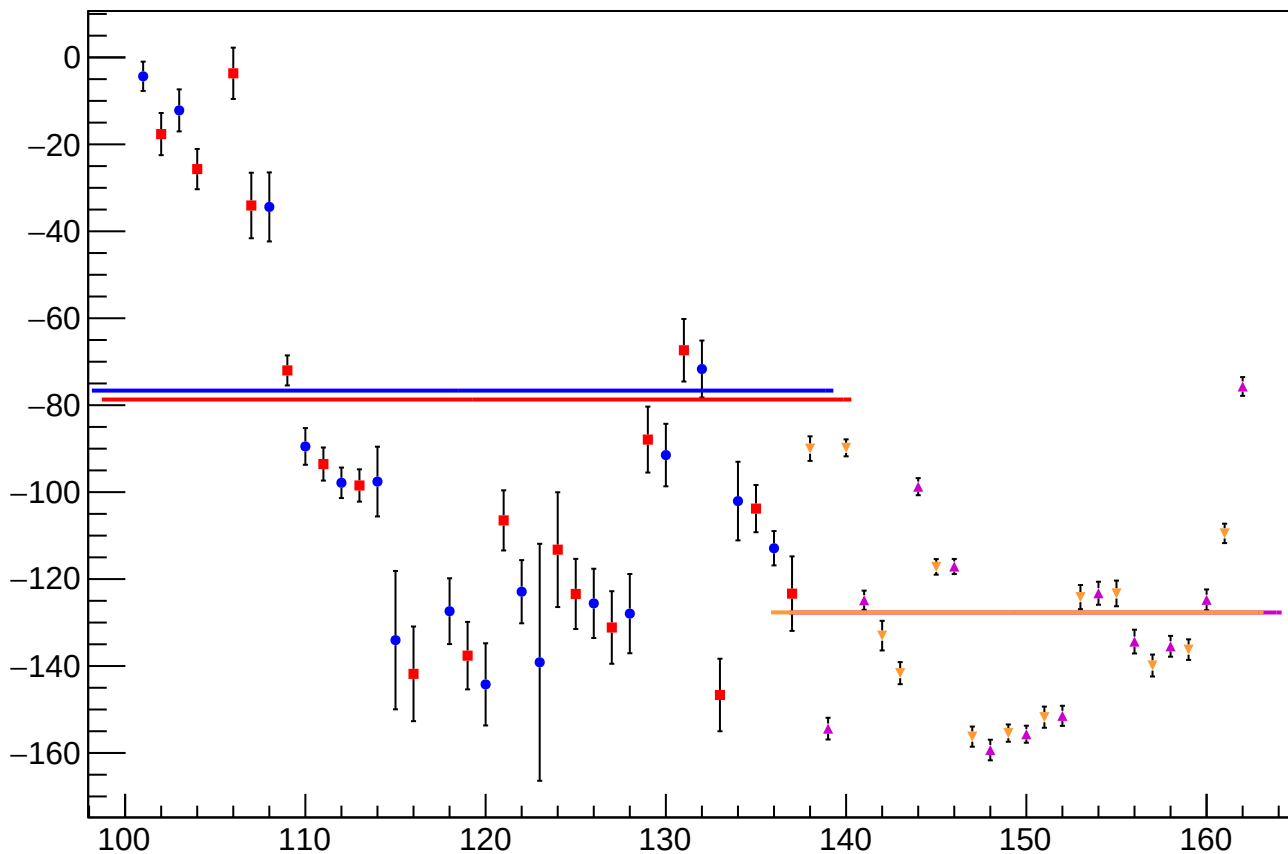
+ sign  $22.667 \pm 0.396$   $\chi^2/\text{NDF}$ : 1706.1/29

All:  $22.744 \pm 0.281$   $\chi^2/\text{NDF}$ : 3471.6/59

- sign  $22.822 \pm 0.399$   $\chi^2/\text{NDF}$ : 1765.4/29



# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}$ : 1040.7/16

Left Out:  $-127.666 \pm 0.655$   $\chi^2/\text{NDF}$ : 1173.9/12

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}$ : 836.5/17

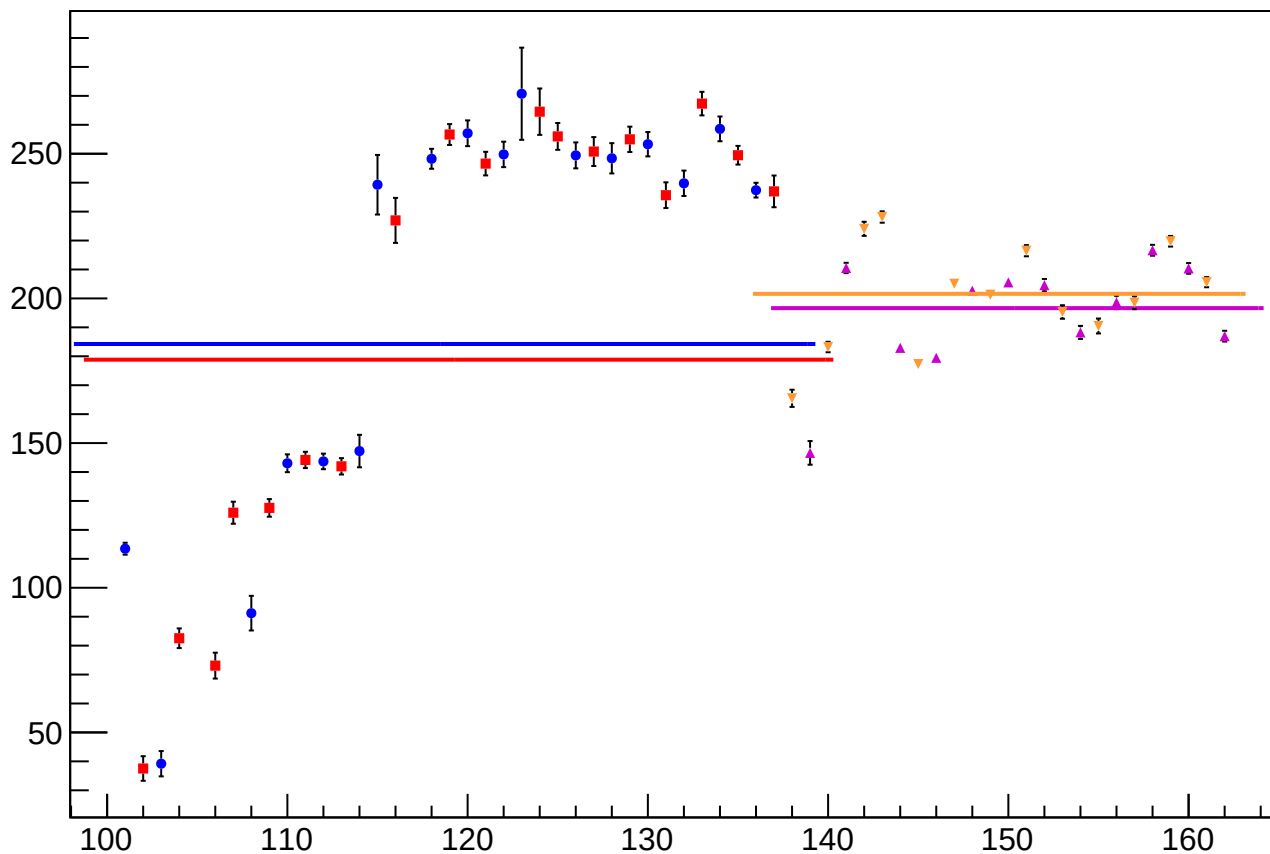
Left In:  $-127.688 \pm 0.643$   $\chi^2/\text{NDF}$ : 1458.9/11

+ sign  $-118.660 \pm 0.594$   $\chi^2/\text{NDF}$ : 3285.7/29

All:  $-118.704 \pm 0.415$   $\chi^2/\text{NDF}$ : 6642.1/59

- sign  $-118.746 \pm 0.581$   $\chi^2/\text{NDF}$ : 3356.3/29

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 201.585 $\pm$ 0.542  $\chi^2$ /NDF: 941.6/12

Right Out: 178.822 $\pm$ 0.926  $\chi^2$ /NDF: 6171.0/17

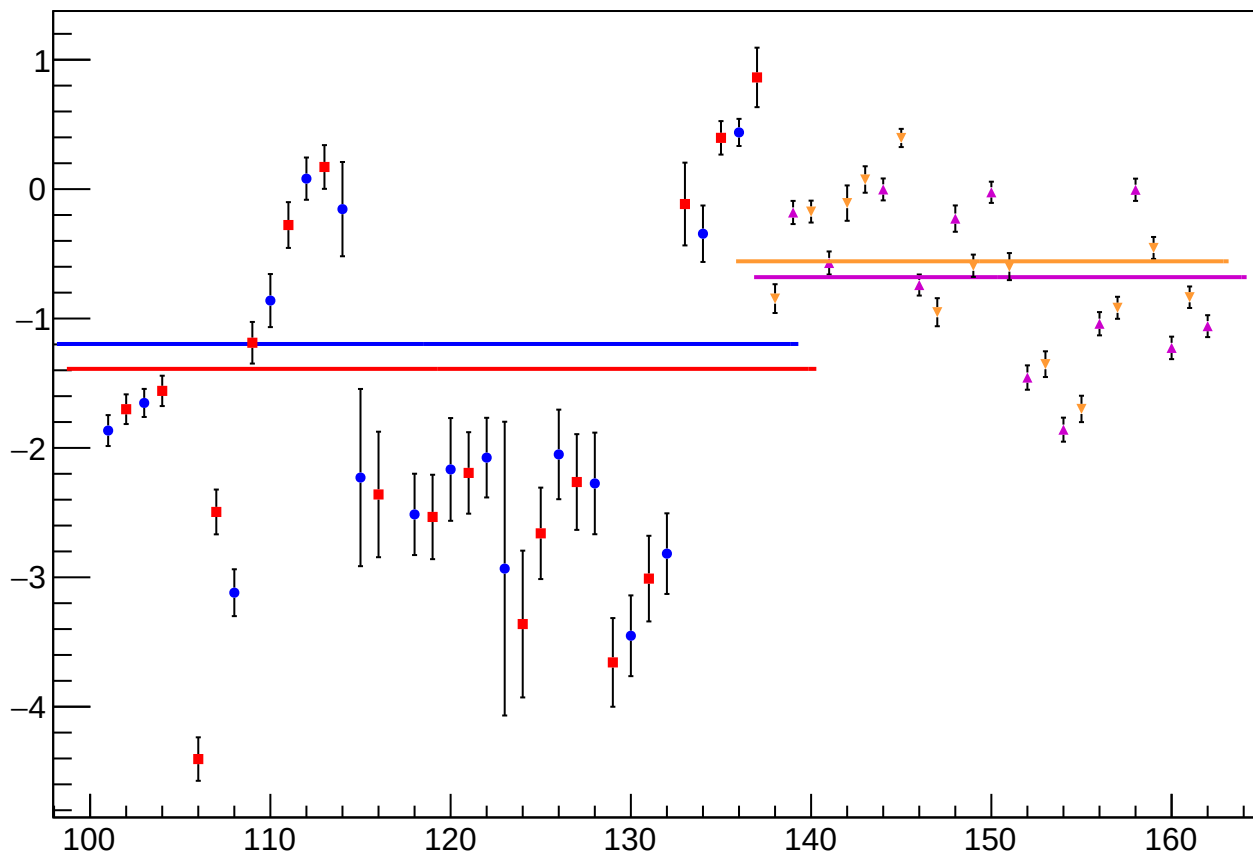
Left In: 196.640 $\pm$ 0.538  $\chi^2$ /NDF: 698.2/11

+ sign 197.085 $\pm$ 0.466  $\chi^2$ /NDF: 6595.9/29

All: 194.606 $\pm$ 0.329  $\chi^2$ /NDF: 13798.3/59

- sign 192.136 $\pm$ 0.465  $\chi^2$ /NDF: 7146.0/29

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.558 \pm 0.026$   $\chi^2/\text{NDF}$ : 493.1/12

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

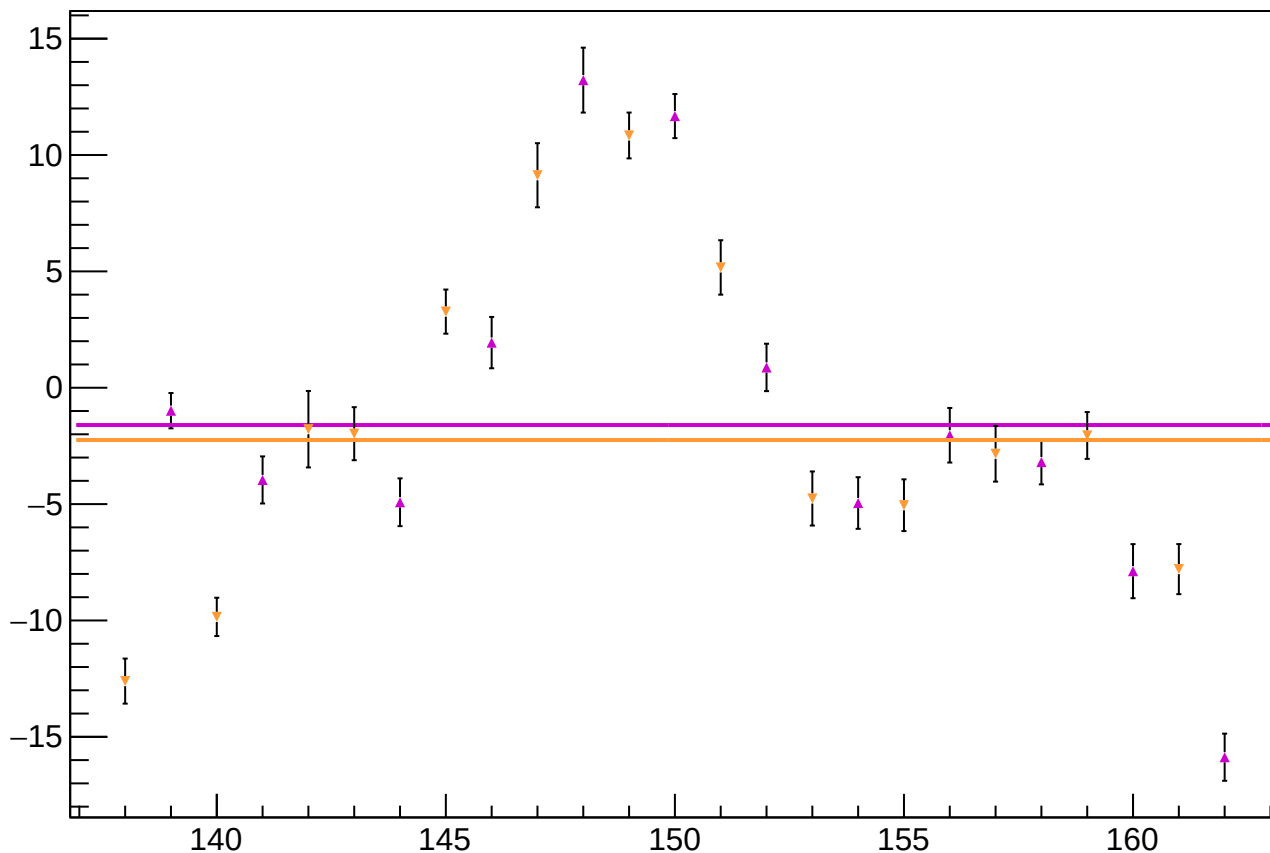
Left In:  $-0.680 \pm 0.025$   $\chi^2/\text{NDF}$ : 547.1/11

+ sign  $-0.700 \pm 0.023$   $\chi^2/\text{NDF}$ : 1251.5/29

All:  $-0.775 \pm 0.016$   $\chi^2/\text{NDF}$ : 2923.2/59

- sign  $-0.846 \pm 0.022$   $\chi^2/\text{NDF}$ : 1650.8/29

# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-2.245 \pm 0.299$   $\chi^2/\text{NDF}$ : 557.0/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

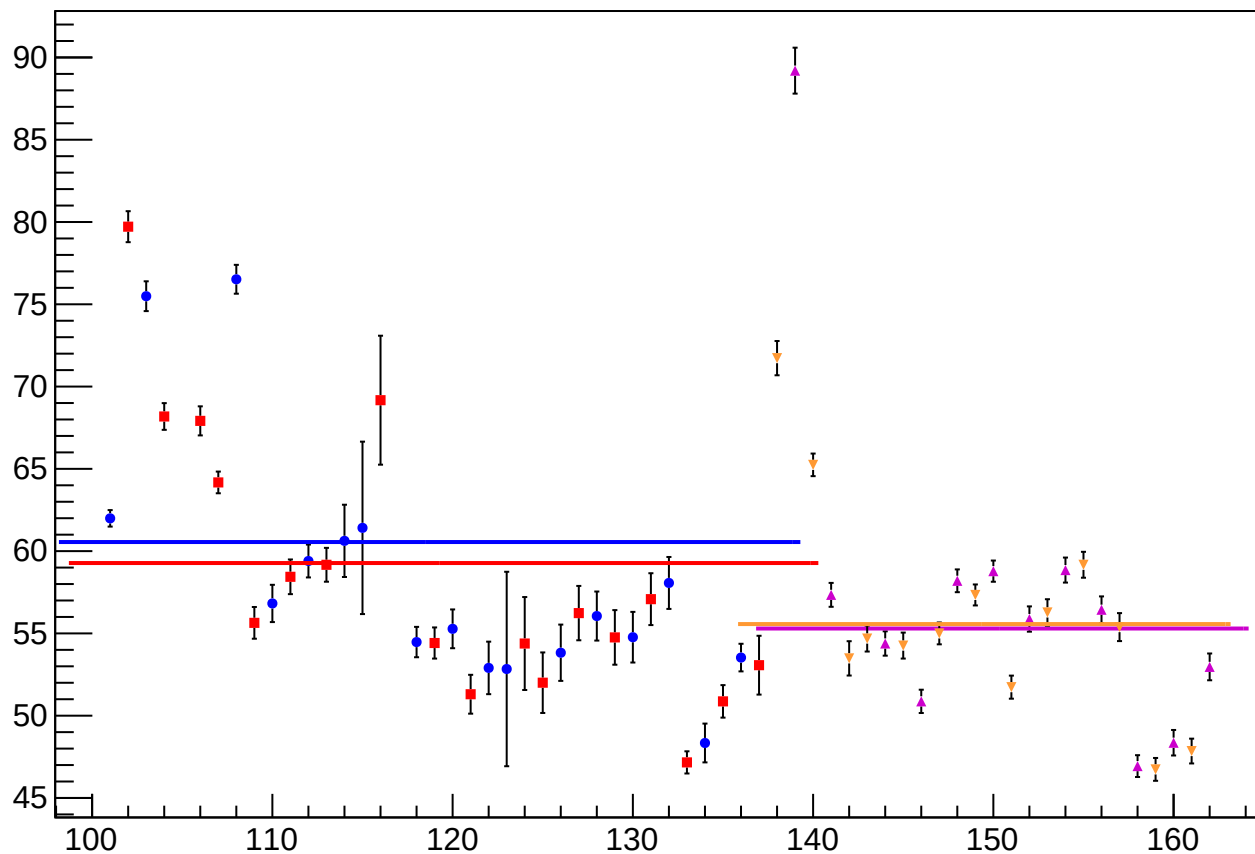
Left In:  $-1.603 \pm 0.296$   $\chi^2/\text{NDF}$ : 581.8/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.921 \pm 0.210$   $\chi^2/\text{NDF}$ : 1141.1/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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: 55.568 $\pm$ 0.212  $\chi^2$ /NDF: 774.5/12

Right Out: 59.276 $\pm$ 0.249  $\chi^2$ /NDF: 1274.8/17

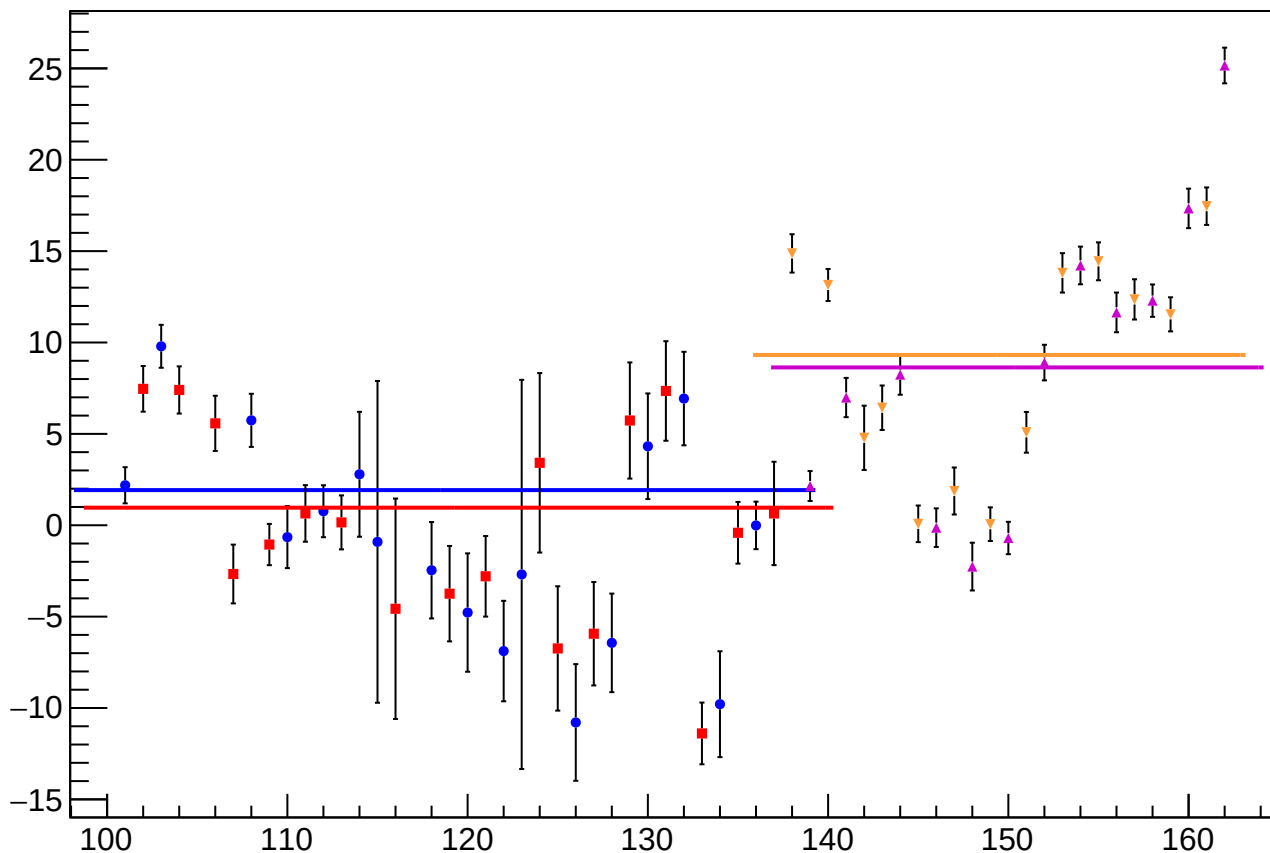
Left In: 55.296 $\pm$ 0.218  $\chi^2$ /NDF: 956.8/11

+ sign 57.538 $\pm$ 0.165  $\chi^2$ /NDF: 1924.7/29

All: 57.278 $\pm$ 0.116  $\chi^2$ /NDF: 4306.3/59

- sign 57.020 $\pm$ 0.164  $\chi^2$ /NDF: 2376.5/29

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}$ : 121.1/16

Left Out:  $9.319 \pm 0.295$   $\chi^2/\text{NDF}$ : 411.7/12

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}$ : 150.1/17

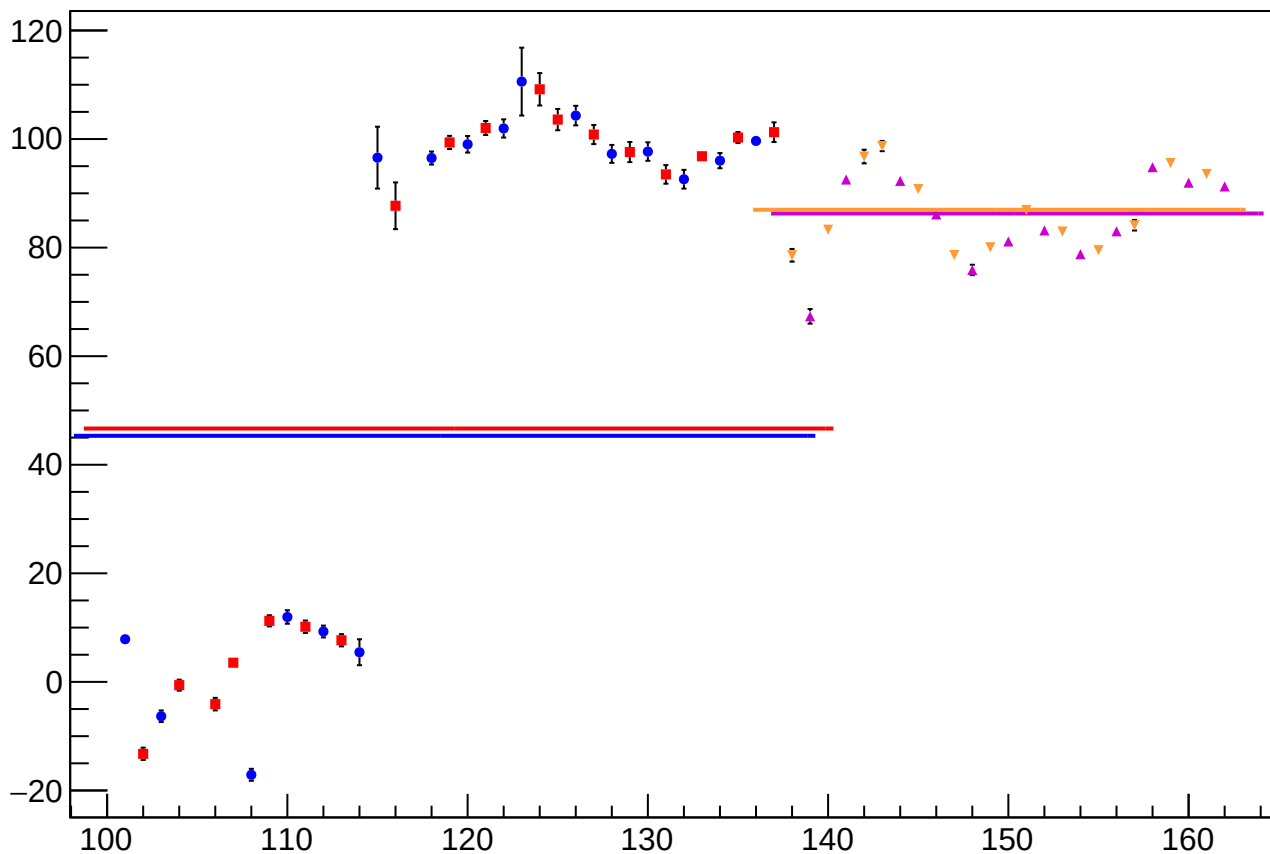
Left In:  $8.637 \pm 0.289$   $\chi^2/\text{NDF}$ : 720.2/11

+ sign  $7.154 \pm 0.248$   $\chi^2/\text{NDF}$ : 717.0/29

All:  $6.684 \pm 0.172$   $\chi^2/\text{NDF}$ : 1813.8/59

- sign  $6.244 \pm 0.240$   $\chi^2/\text{NDF}$ : 1089.9/29

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 86.976 $\pm$ 0.248  $\chi^2$ /NDF: 772.6/12

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

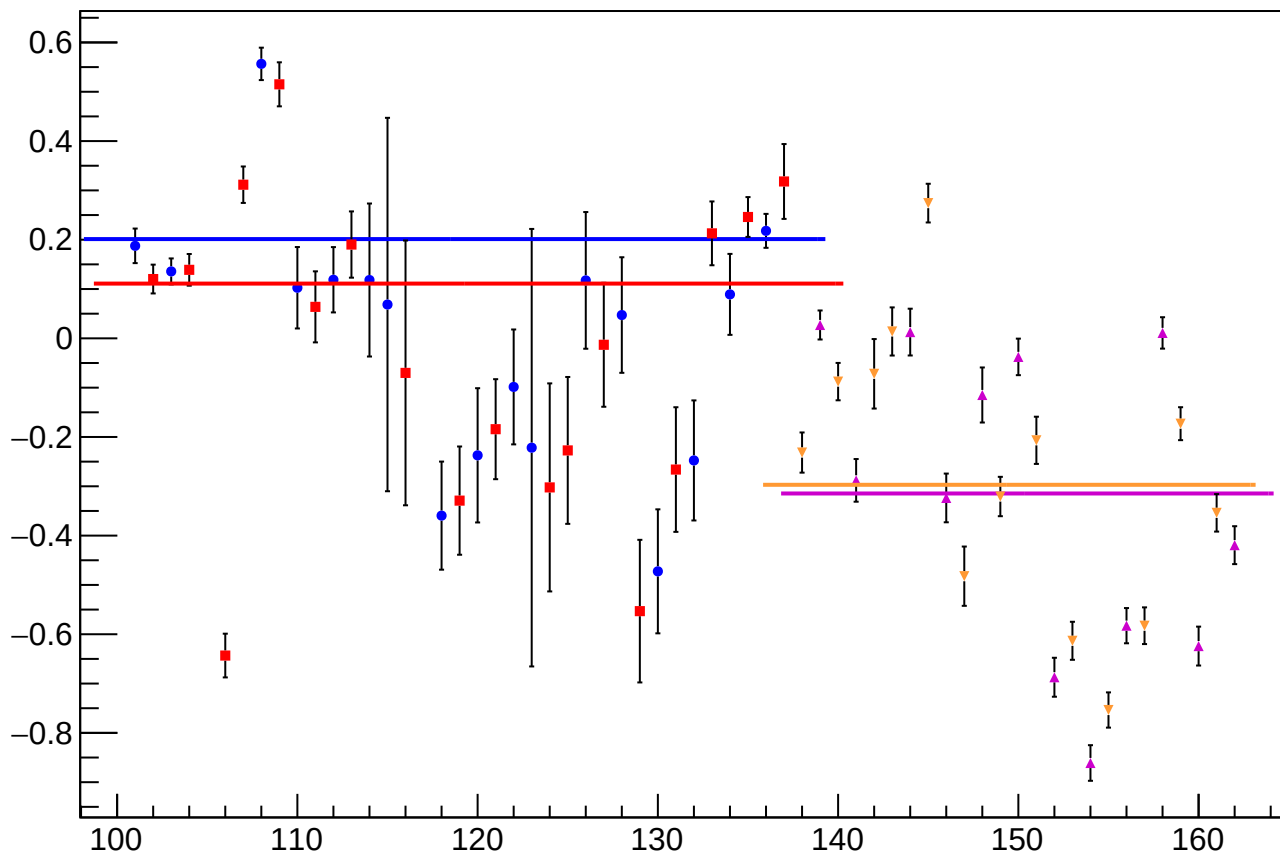
Left In: 86.280 $\pm$ 0.250  $\chi^2$ /NDF: 790.2/11

+ sign 70.313 $\pm$ 0.192  $\chi^2$ /NDF: 37066.8/29

All: 69.860 $\pm$ 0.135  $\chi^2$ /NDF: 76420.6/59

- sign 69.419 $\pm$ 0.190  $\chi^2$ /NDF: 39342.8/29

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.297 \pm 0.011$   $\chi^2/\text{NDF}$ : 614.7/12

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

Left In:  $-0.315 \pm 0.011$   $\chi^2/\text{NDF}$ : 799.4/11

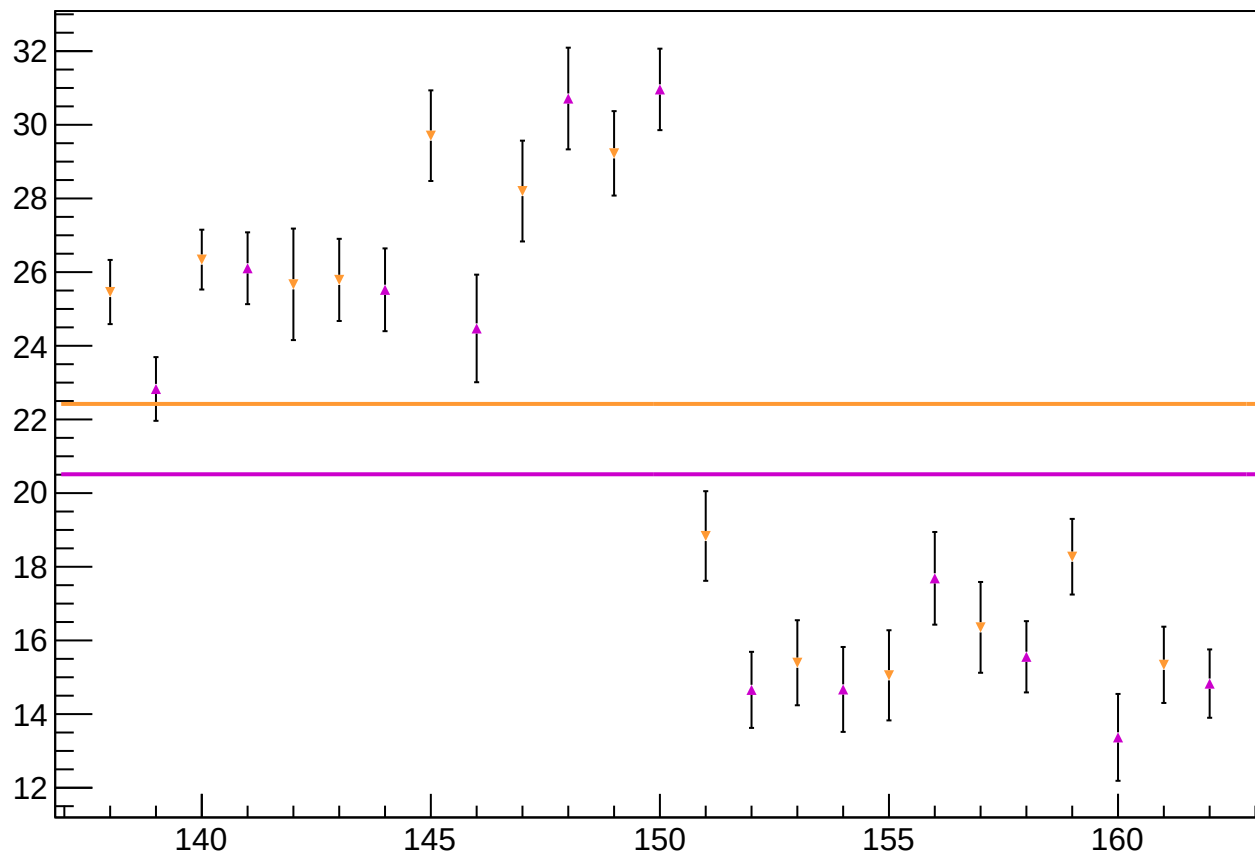
+ sign  $-0.099 \pm 0.009$   $\chi^2/\text{NDF}$ : 1590.2/29

All:  $-0.119 \pm 0.006$   $\chi^2/\text{NDF}$ : 3498.9/59

- sign  $-0.138 \pm 0.008$   $\chi^2/\text{NDF}$ : 1898.7/29



# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 22.422+/-0.306  $\chi^2/\text{NDF}$ : 306.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

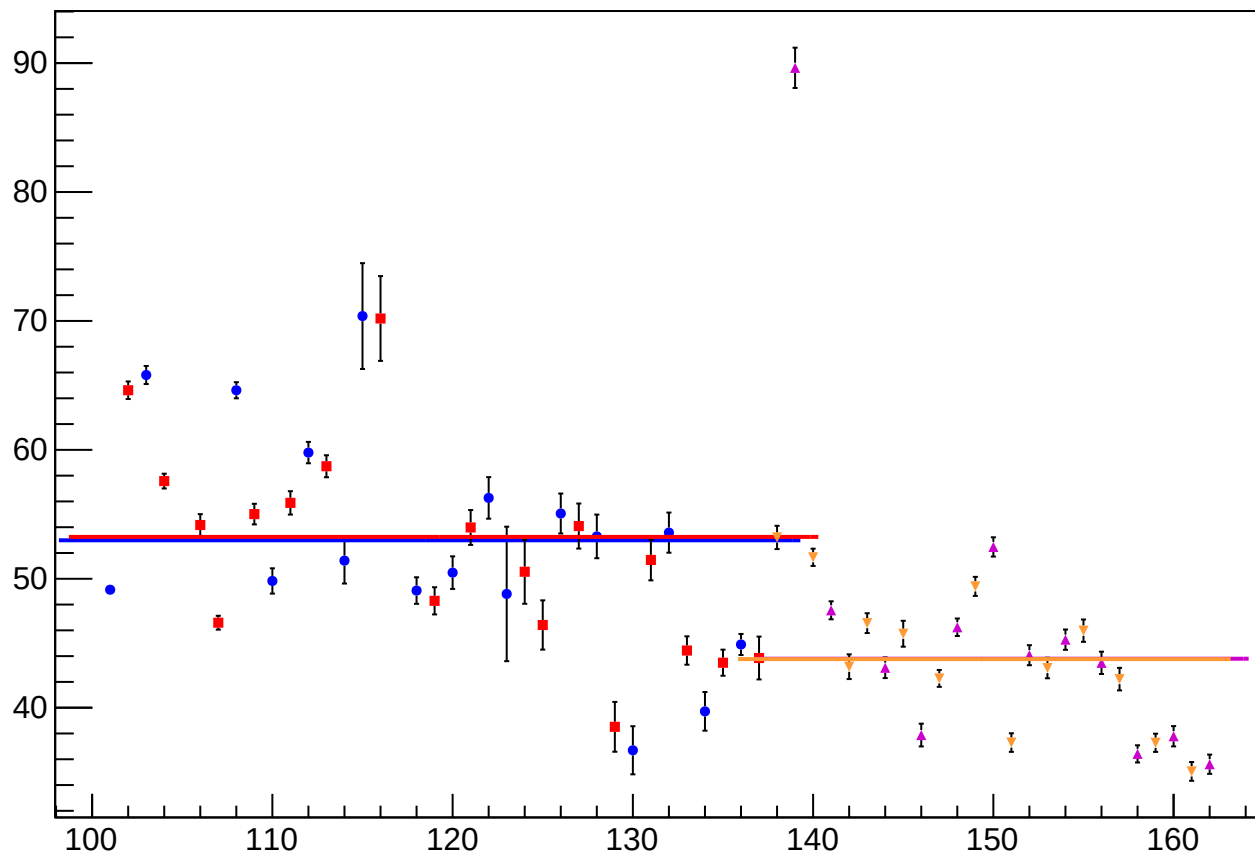
Left In: 20.511+/-0.312  $\chi^2/\text{NDF}$ : 374.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.485+/-0.219  $\chi^2/\text{NDF}$ : 700.1/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In:  $52.985 \pm 0.210$   $\chi^2/\text{NDF}$ : 1197.9/16

Left Out:  $43.768 \pm 0.216$   $\chi^2/\text{NDF}$ : 647.5/12

Right Out:  $53.248 \pm 0.227$   $\chi^2/\text{NDF}$ : 856.4/17

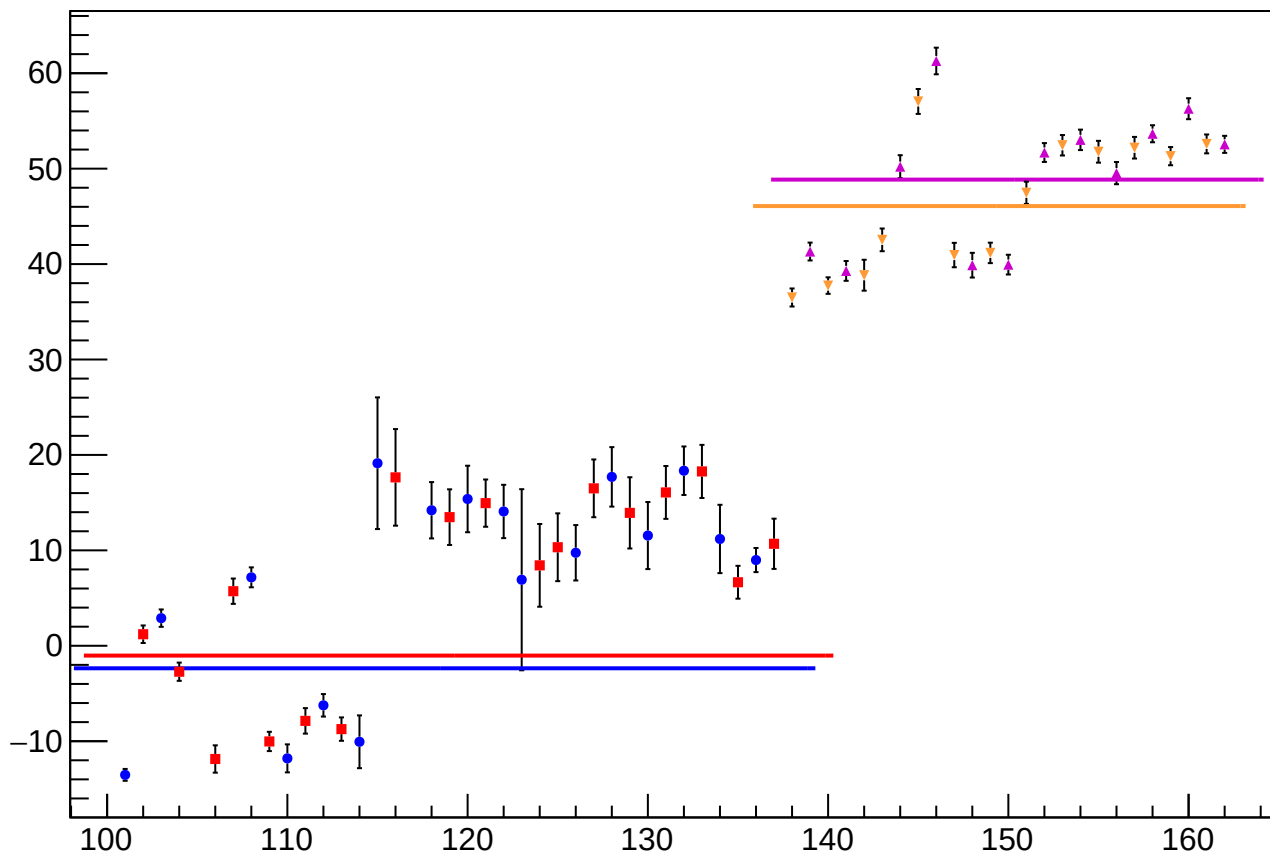
Left In:  $43.799 \pm 0.226$   $\chi^2/\text{NDF}$ : 1386.4/11

+ sign  $48.501 \pm 0.151$   $\chi^2/\text{NDF}$ : 2779.7/29

All:  $48.502 \pm 0.110$   $\chi^2/\text{NDF}$ : 5889.9/59

- sign  $48.502 \pm 0.160$   $\chi^2/\text{NDF}$ : 3110.2/29

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $46.080 \pm 0.303$   $\chi^2/\text{NDF}$ : 496.3/12

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

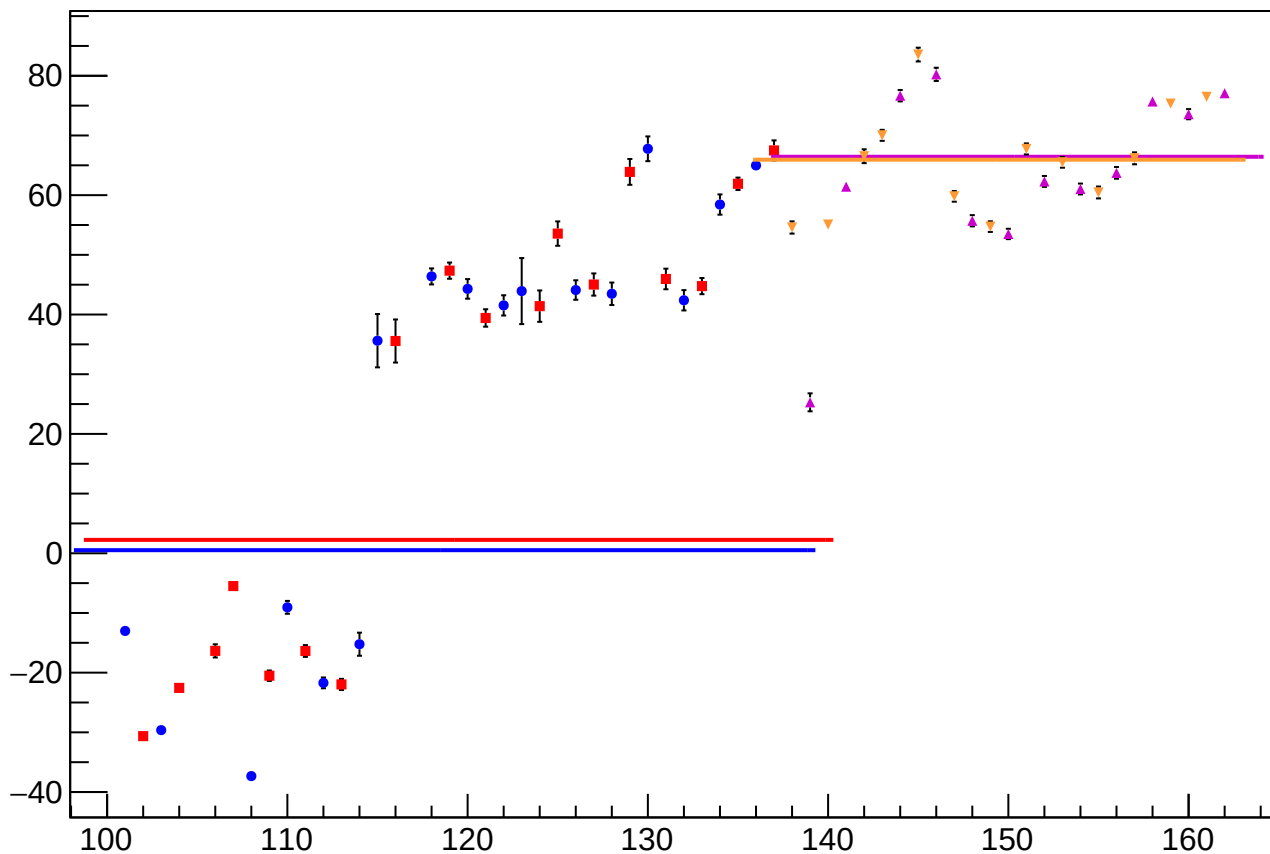
Left In:  $48.851 \pm 0.305$   $\chi^2/\text{NDF}$ : 468.4/11

+ sign  $26.260 \pm 0.233$   $\chi^2/\text{NDF}$ : 11789.6/29

All:  $27.775 \pm 0.166$   $\chi^2/\text{NDF}$ : 23333.0/59

- sign  $29.354 \pm 0.238$   $\chi^2/\text{NDF}$ : 11457.0/29

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.518 \pm 0.247$   $\chi^2/\text{NDF}$ : 18386.0/16

Left Out:  $65.942 \pm 0.254$   $\chi^2/\text{NDF}$ : 1140.1/12

Right Out:  $2.246 \pm 0.267$   $\chi^2/\text{NDF}$ : 15377.0/17

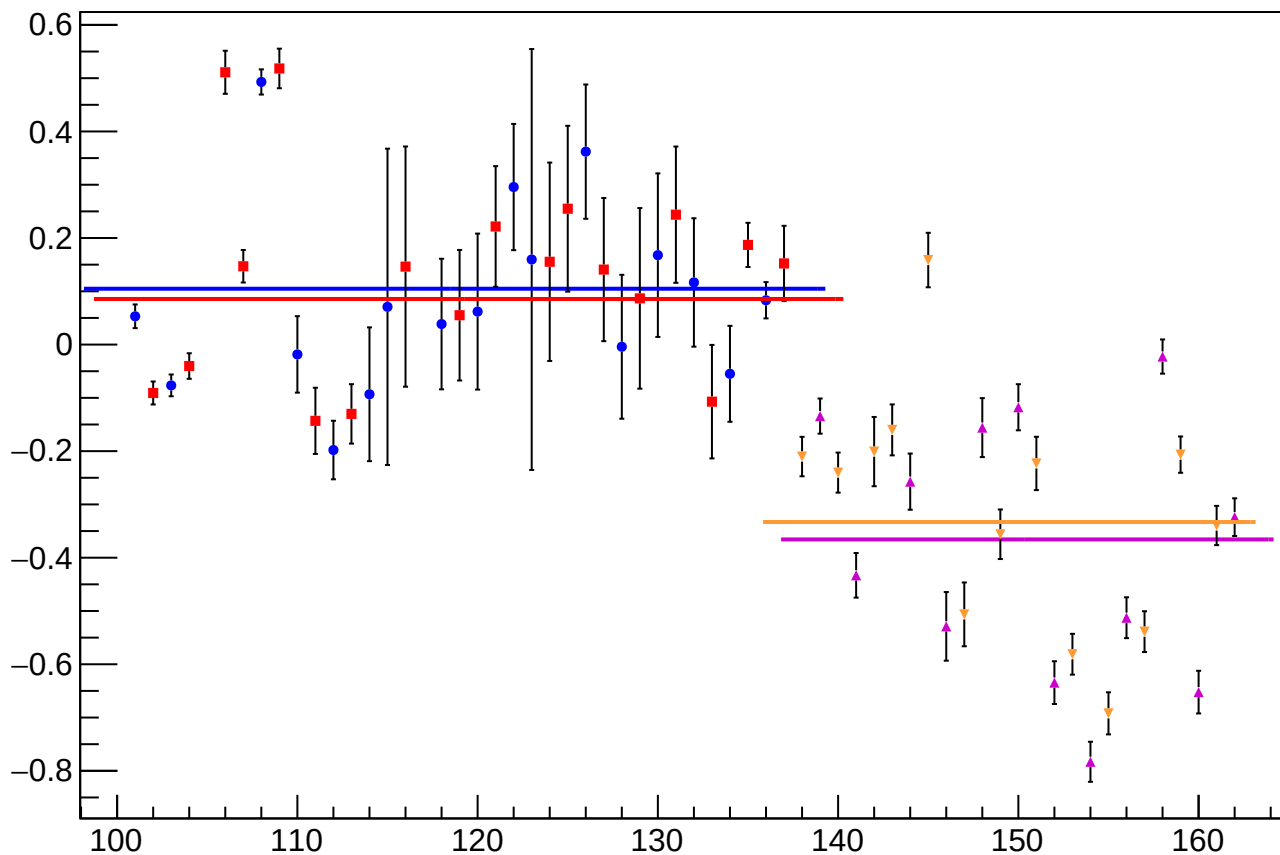
Left In:  $66.433 \pm 0.261$   $\chi^2/\text{NDF}$ : 1899.7/11

+ sign  $32.331 \pm 0.177$   $\chi^2/\text{NDF}$ : 53661.8/29

All:  $33.675 \pm 0.128$   $\chi^2/\text{NDF}$ : 100613.5/59

- sign  $35.169 \pm 0.187$   $\chi^2/\text{NDF}$ : 46830.0/29

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.8/16

Left Out:  $-0.333 \pm 0.012$   $\chi^2/\text{NDF}$ : 307.4/12

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}$ : 388.3/17

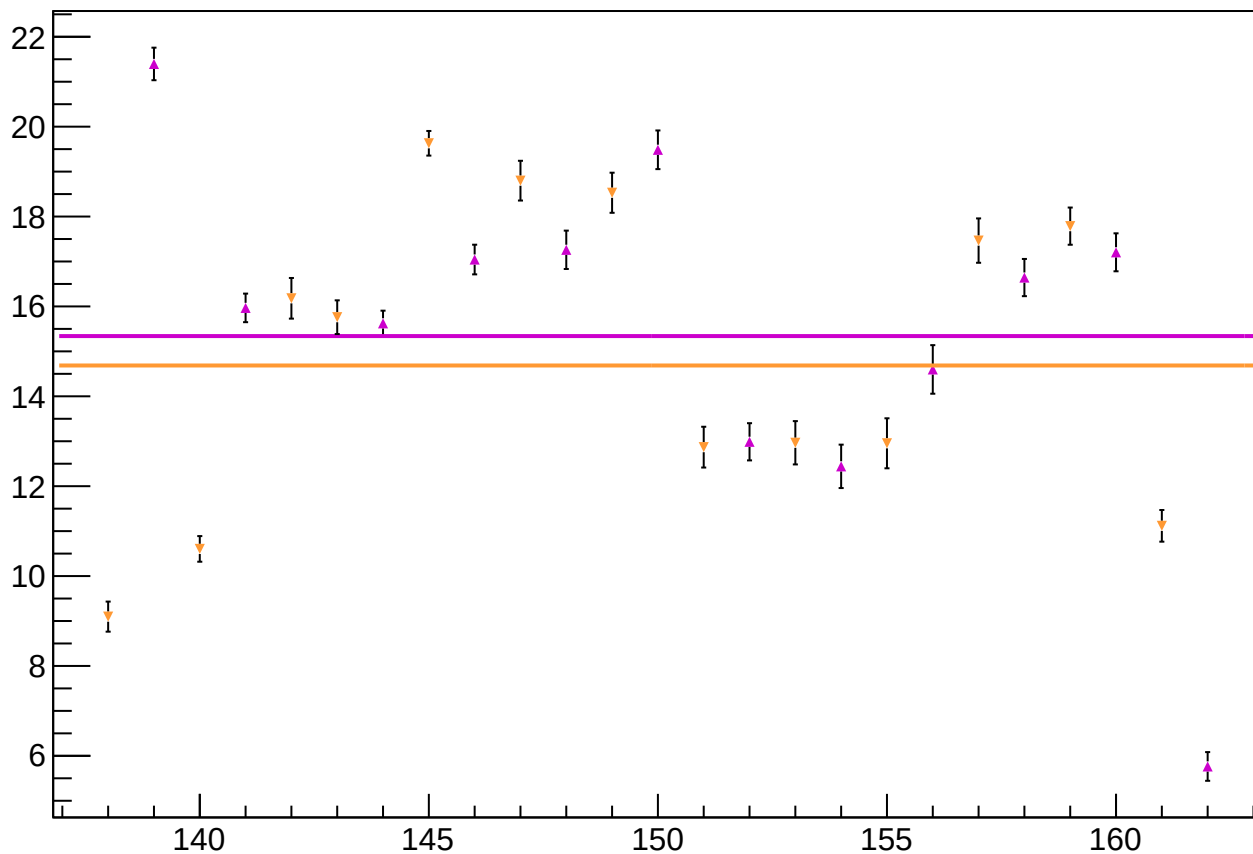
Left In:  $-0.366 \pm 0.012$   $\chi^2/\text{NDF}$ : 459.5/11

+ sign  $-0.100 \pm 0.008$   $\chi^2/\text{NDF}$ : 1445.6/29

All:  $-0.114 \pm 0.006$   $\chi^2/\text{NDF}$ : 3086.4/59

- sign  $-0.129 \pm 0.008$   $\chi^2/\text{NDF}$ : 1634.6/29

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.686+/-0.107  $\chi^2/\text{NDF}$ :1217.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

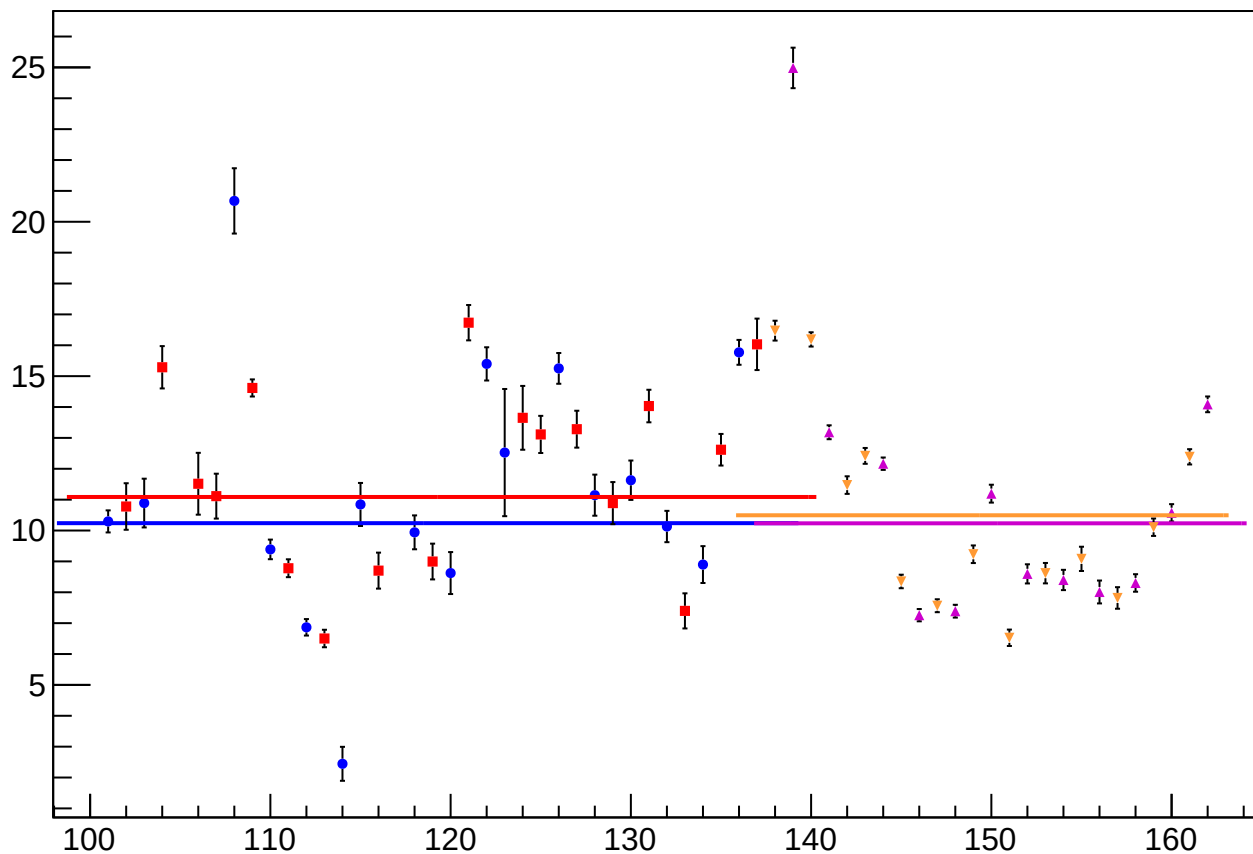
Left In: 15.340+/-0.108  $\chi^2/\text{NDF}$ :1423.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.009+/-0.076  $\chi^2/\text{NDF}$ : 2659.0/24

- 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: 10.494 $\pm$ 0.075  $\chi^2$ /NDF: 1717.4/12

Right Out: 11.087 $\pm$ 0.116  $\chi^2$ /NDF: 801.0/17

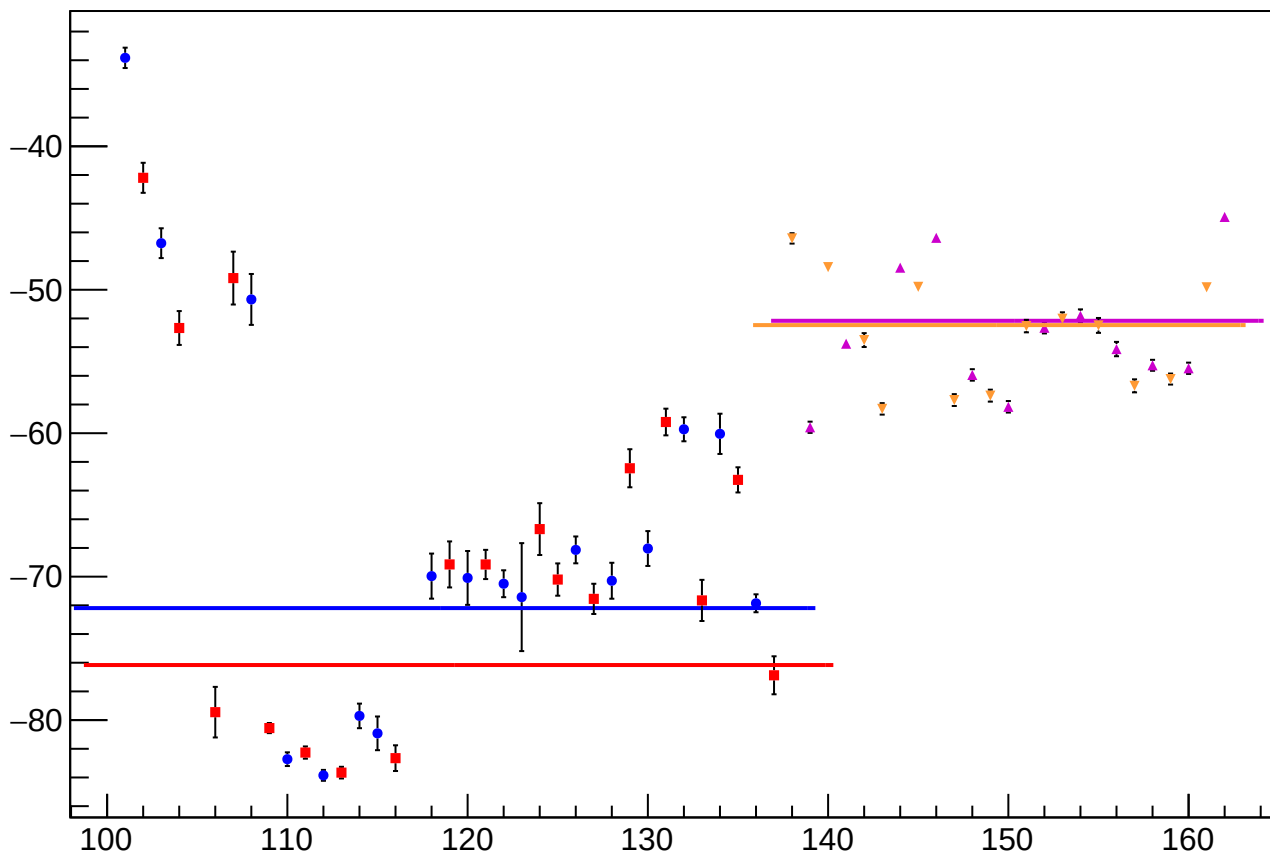
Left In: 10.233 $\pm$ 0.076  $\chi^2$ /NDF: 1563.3/11

+ sign 10.422 $\pm$ 0.063  $\chi^2$ /NDF: 2588.1/29

All: 10.454 $\pm$ 0.045  $\chi^2$ /NDF: 4990.7/59

- sign 10.487 $\pm$ 0.063  $\chi^2$ /NDF: 2402.0/29

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}: 5563.0/16$

Left Out:  $-52.464 \pm 0.107$   $\chi^2/\text{NDF}: 1299.9/12$

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}: 3223.3/17$

Left In:  $-52.163 \pm 0.107$   $\chi^2/\text{NDF}: 1885.3/11$

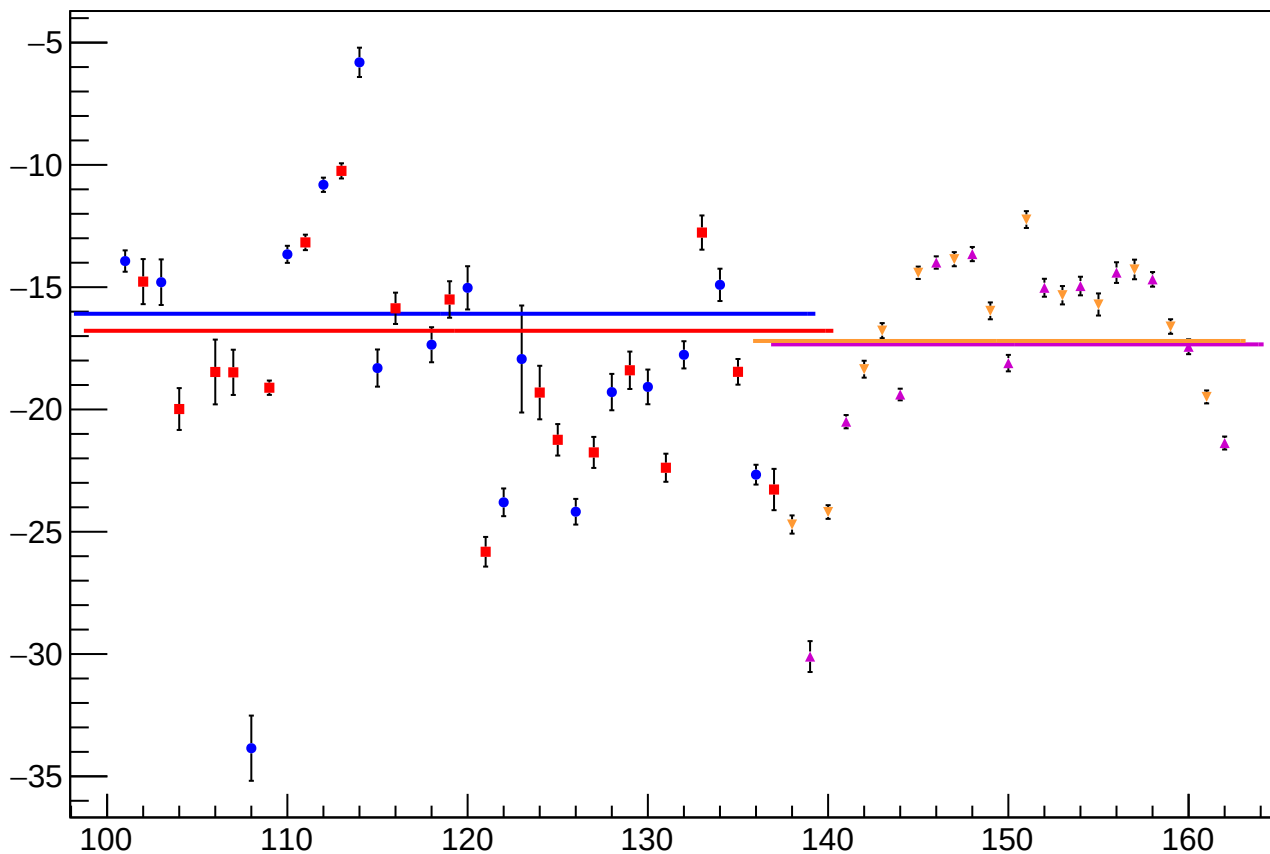
+ sign  $-56.945 \pm 0.094$   $\chi^2/\text{NDF}: 14524.9/29$

All:  $-57.661 \pm 0.066$   $\chi^2/\text{NDF}: 32767.5/59$

- sign  $-58.339 \pm 0.092$   $\chi^2/\text{NDF}: 18130.8/29$



# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.087 \pm 0.132$   $\chi^2/\text{NDF}$ : 1621.7/16

Left Out:  $-17.200 \pm 0.089$   $\chi^2/\text{NDF}$ : 1686.5/12

Right Out:  $-16.783 \pm 0.128$   $\chi^2/\text{NDF}$ : 1204.4/17

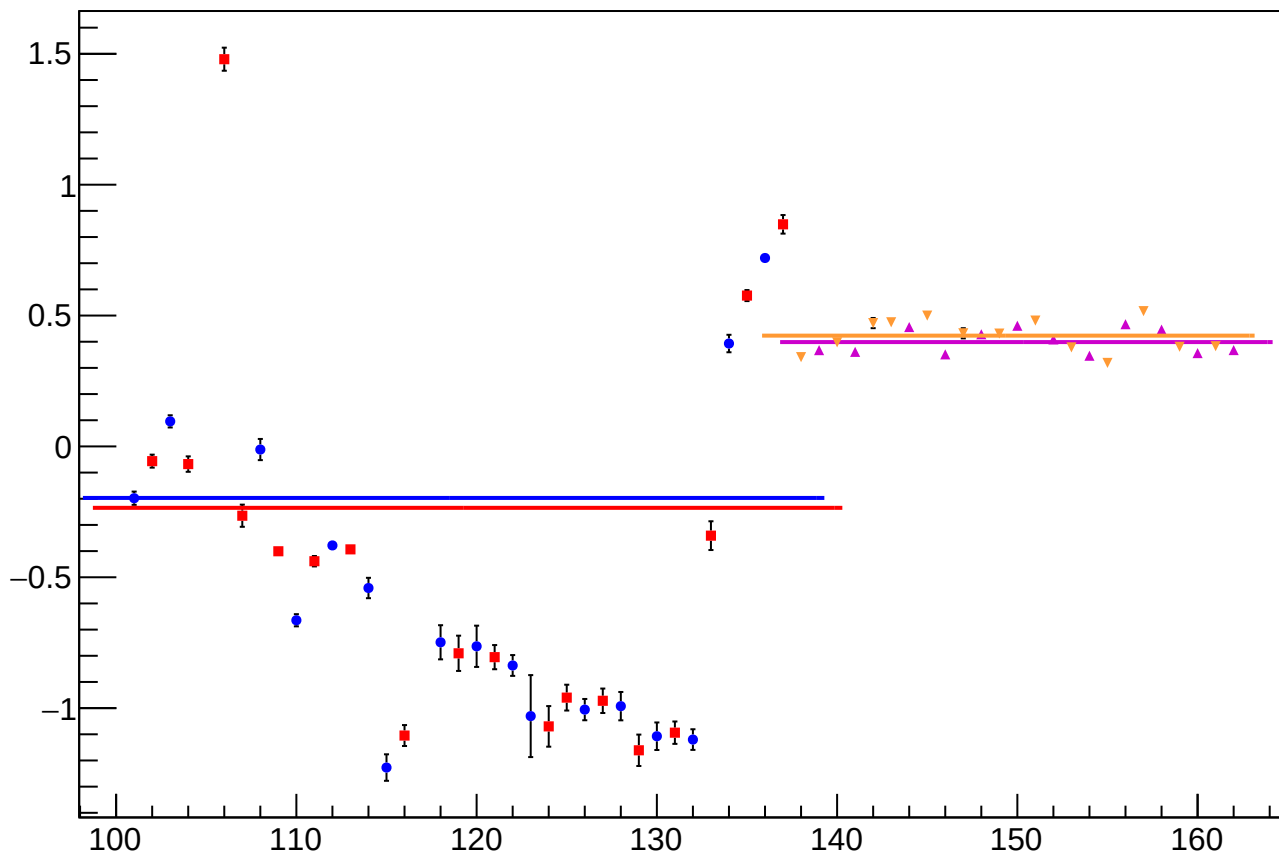
Left In:  $-17.339 \pm 0.089$   $\chi^2/\text{NDF}$ : 1396.3/11

+ sign  $-16.855 \pm 0.074$   $\chi^2/\text{NDF}$ : 3356.9/29

All:  $-17.008 \pm 0.052$   $\chi^2/\text{NDF}$ : 5978.9/59

- sign  $-17.158 \pm 0.073$   $\chi^2/\text{NDF}$ : 2613.4/29

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 6329.9/16

Left Out:  $0.423 \pm 0.004$   $\chi^2/\text{NDF}$ : 205.3/12

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}$ : 6204.9/17

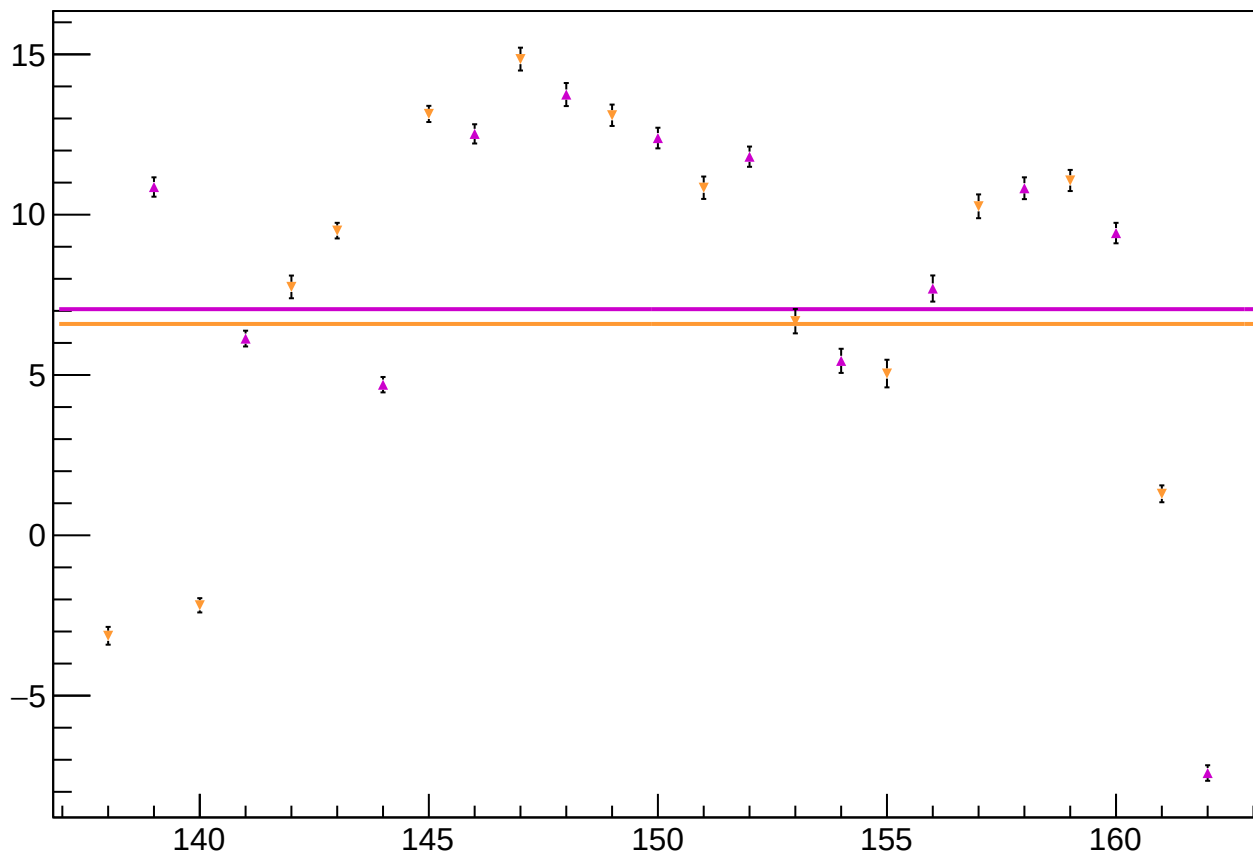
Left In:  $0.399 \pm 0.004$   $\chi^2/\text{NDF}$ : 114.1/11

+ sign  $0.275 \pm 0.004$   $\chi^2/\text{NDF}$ : 11673.5/29

All:  $0.256 \pm 0.003$   $\chi^2/\text{NDF}$ : 23827.3/59

- sign  $0.237 \pm 0.004$   $\chi^2/\text{NDF}$ : 12099.3/29

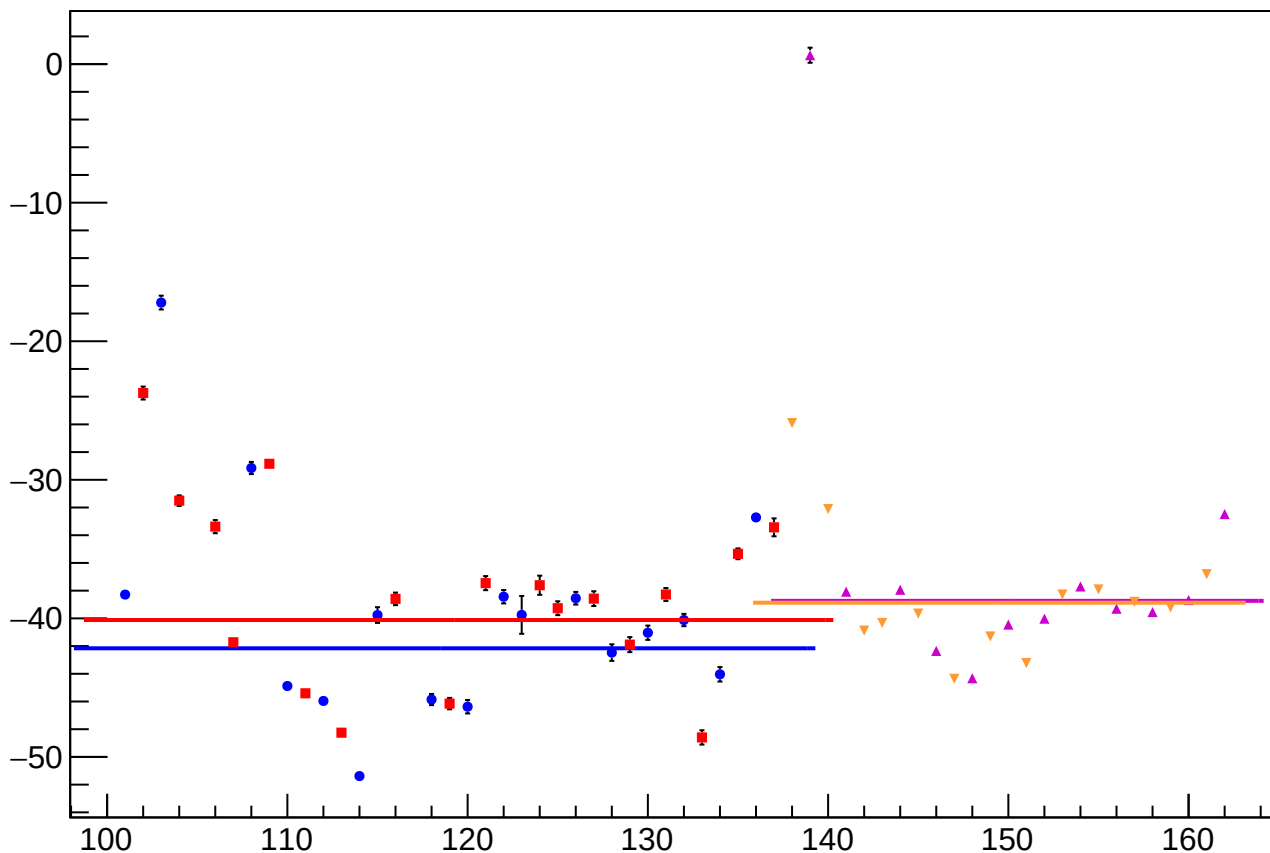
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.592+/-0.084  $\chi^2/\text{NDF}$ : 5373.3/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.053+/-0.087  $\chi^2/\text{NDF}$ : 5212.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 6.814+/-0.060  $\chi^2/\text{NDF}$ : 10599.8/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-42.160 \pm 0.078$   $\chi^2/\text{NDF}$ : 6570.6/16

Left Out:  $-38.869 \pm 0.058$   $\chi^2/\text{NDF}$ : 5650.9/12

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}$ : 10884.6/17

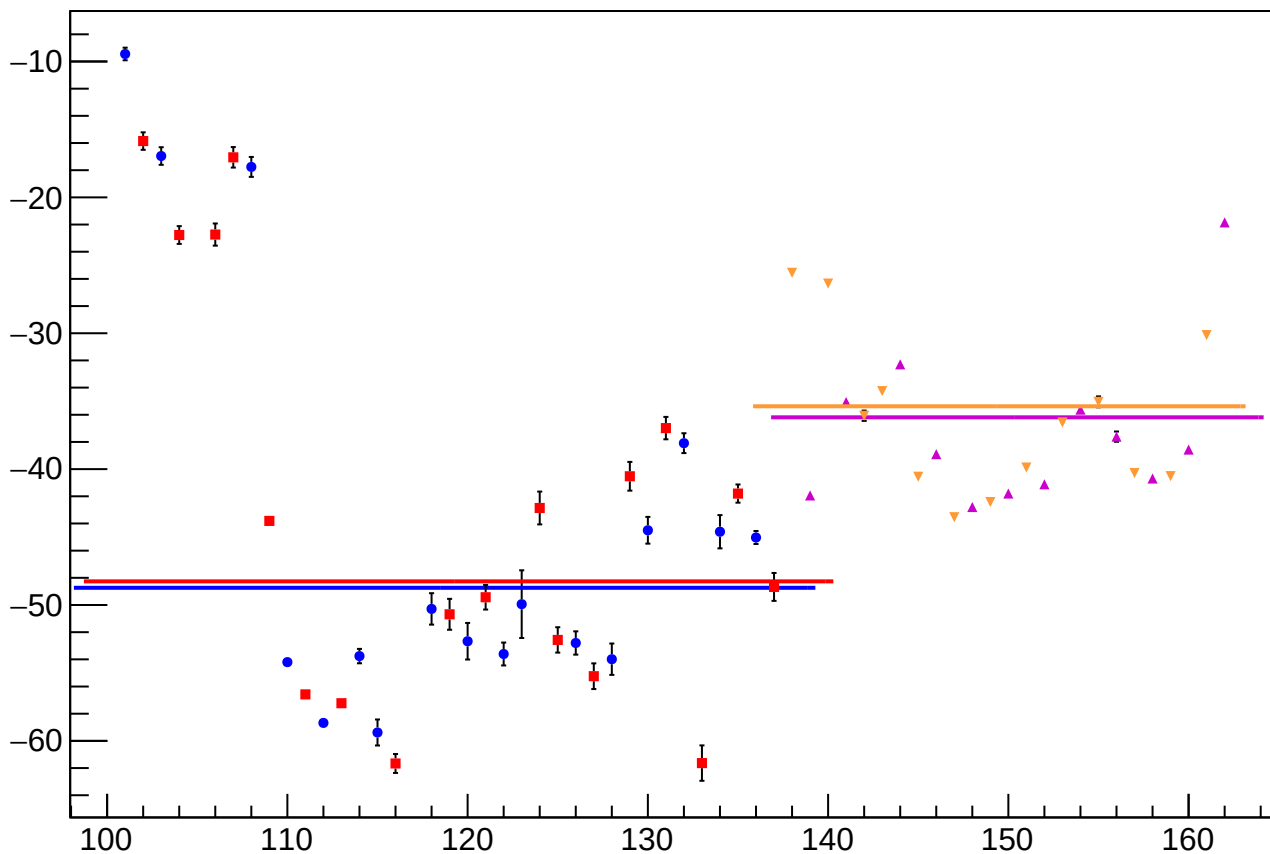
Left In:  $-38.736 \pm 0.061$   $\chi^2/\text{NDF}$ : 7820.6/11

+ sign  $-40.054 \pm 0.047$   $\chi^2/\text{NDF}$ : 13363.0/29

All:  $-39.684 \pm 0.033$   $\chi^2/\text{NDF}$ : 32405.2/59

- sign  $-39.310 \pm 0.047$   $\chi^2/\text{NDF}$ : 18916.1/29

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}: 14659.4/16$

Left Out:  $-35.375 \pm 0.084$   $\chi^2/\text{NDF}: 5140.1/12$

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}: 11091.7/17$

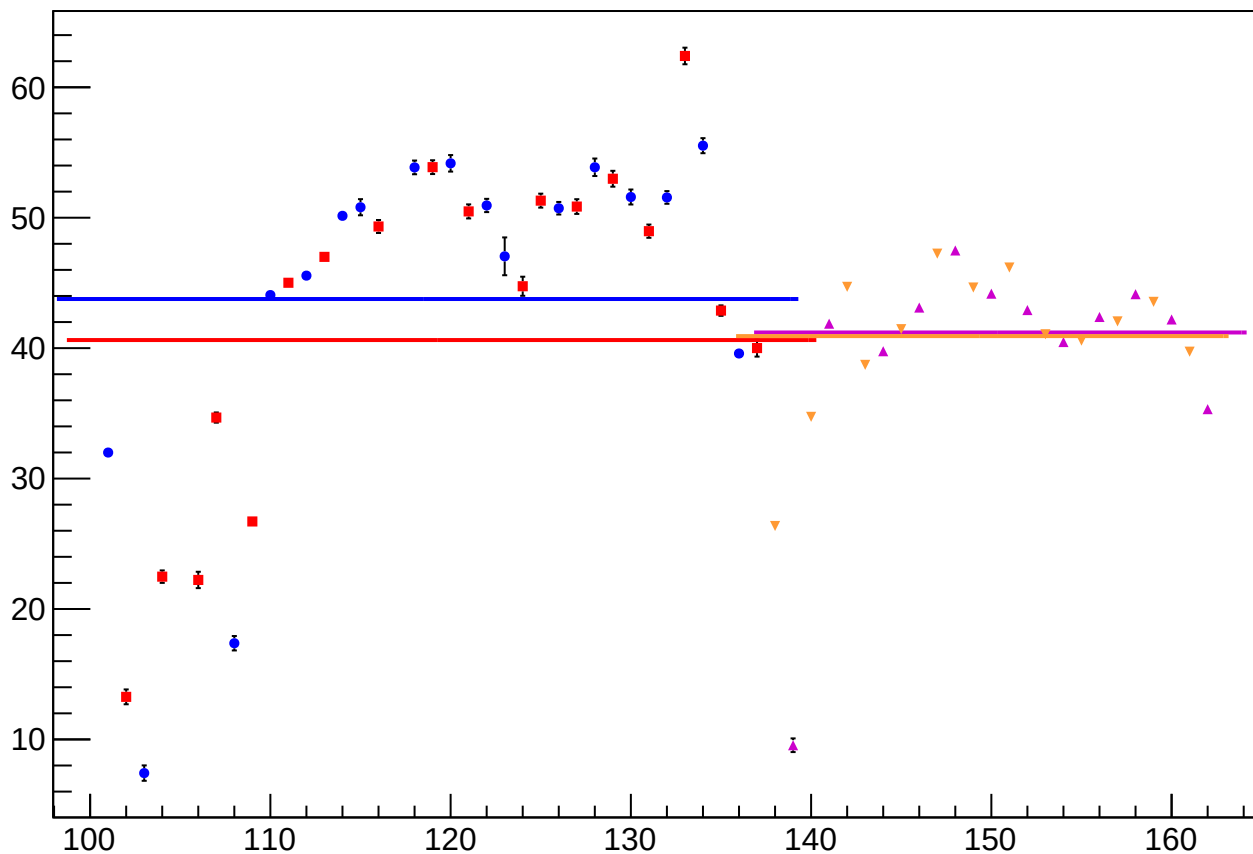
Left In:  $-36.187 \pm 0.085$   $\chi^2/\text{NDF}: 5706.6/11$

+ sign  $-39.539 \pm 0.070$   $\chi^2/\text{NDF}: 27699.7/29$

All:  $-40.229 \pm 0.048$   $\chi^2/\text{NDF}: 52422.5/59$

- sign  $-40.865 \pm 0.067$   $\chi^2/\text{NDF}: 24534.3/29$

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In:  $43.767 \pm 0.087$   $\chi^2/\text{NDF}: 10633.5/16$

Left Out:  $40.923 \pm 0.069$   $\chi^2/\text{NDF}: 4824.0/12$

Right Out:  $40.620 \pm 0.080$   $\chi^2/\text{NDF}: 16957.4/17$

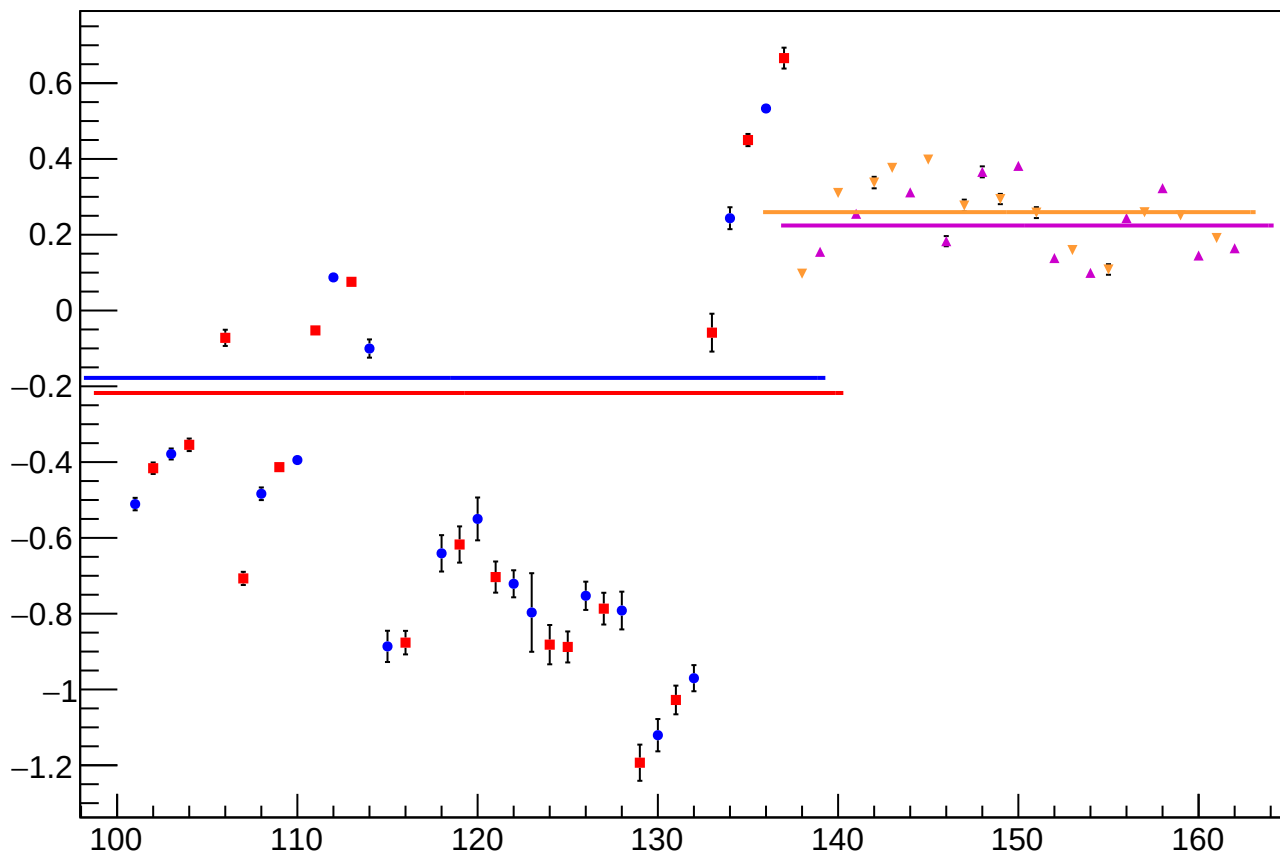
Left In:  $41.201 \pm 0.072$   $\chi^2/\text{NDF}: 5637.4/11$

+ sign  $42.028 \pm 0.054$   $\chi^2/\text{NDF}: 16113.8/29$

All:  $41.479 \pm 0.038$   $\chi^2/\text{NDF}: 38940.9/59$

- sign  $40.943 \pm 0.053$   $\chi^2/\text{NDF}: 22623.8/29$

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.260 \pm 0.003$   $\chi^2/\text{NDF}$ : 775.8/12

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

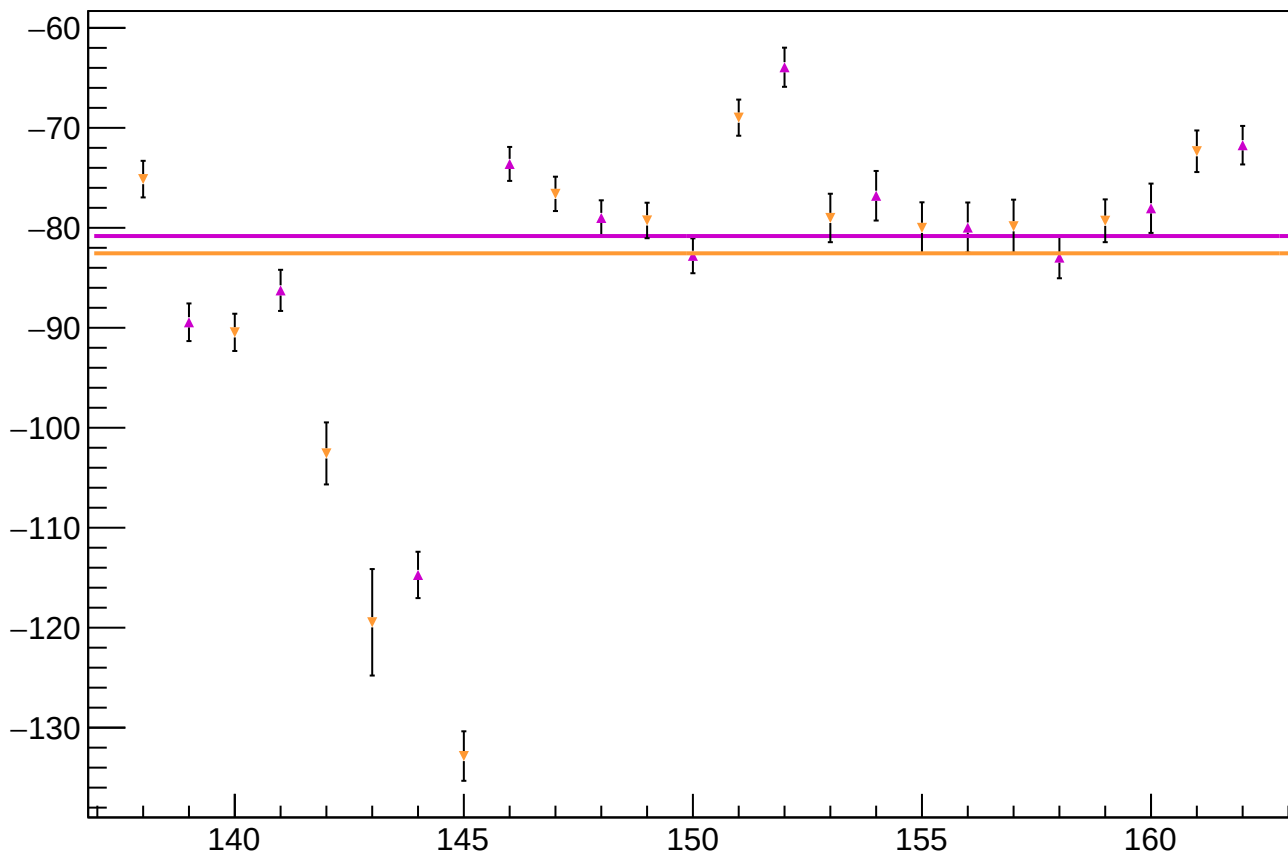
Left In:  $0.224 \pm 0.003$   $\chi^2/\text{NDF}$ : 694.2/11

+ sign  $0.121 \pm 0.003$   $\chi^2/\text{NDF}$ : 13711.7/29

All:  $0.088 \pm 0.002$   $\chi^2/\text{NDF}$ : 28682.0/59

- sign  $0.058 \pm 0.003$   $\chi^2/\text{NDF}$ : 14696.1/29

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug

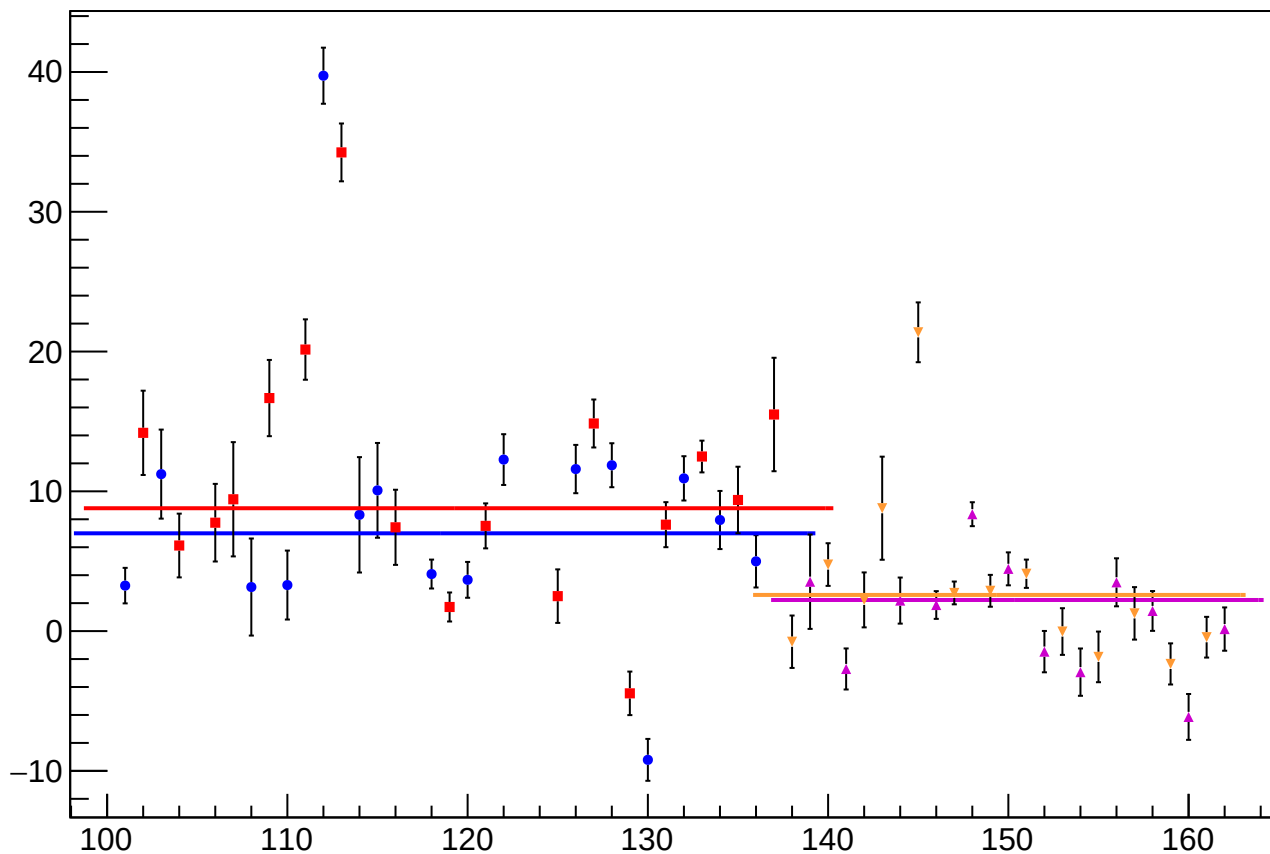


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -82.550+/-0.601  $\chi^2/\text{NDF}$ : 639.0/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -80.822+/-0.582  $\chi^2/\text{NDF}$ : 364.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -81.658+/-0.418  $\chi^2/\text{NDF}$ : 1007.3/24  
 - 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:  $2.588 \pm 0.395$   $\chi^2/\text{NDF}$ : 112.0/12

Right Out:  $8.790 \pm 0.449$   $\chi^2/\text{NDF}$ : 348.8/16

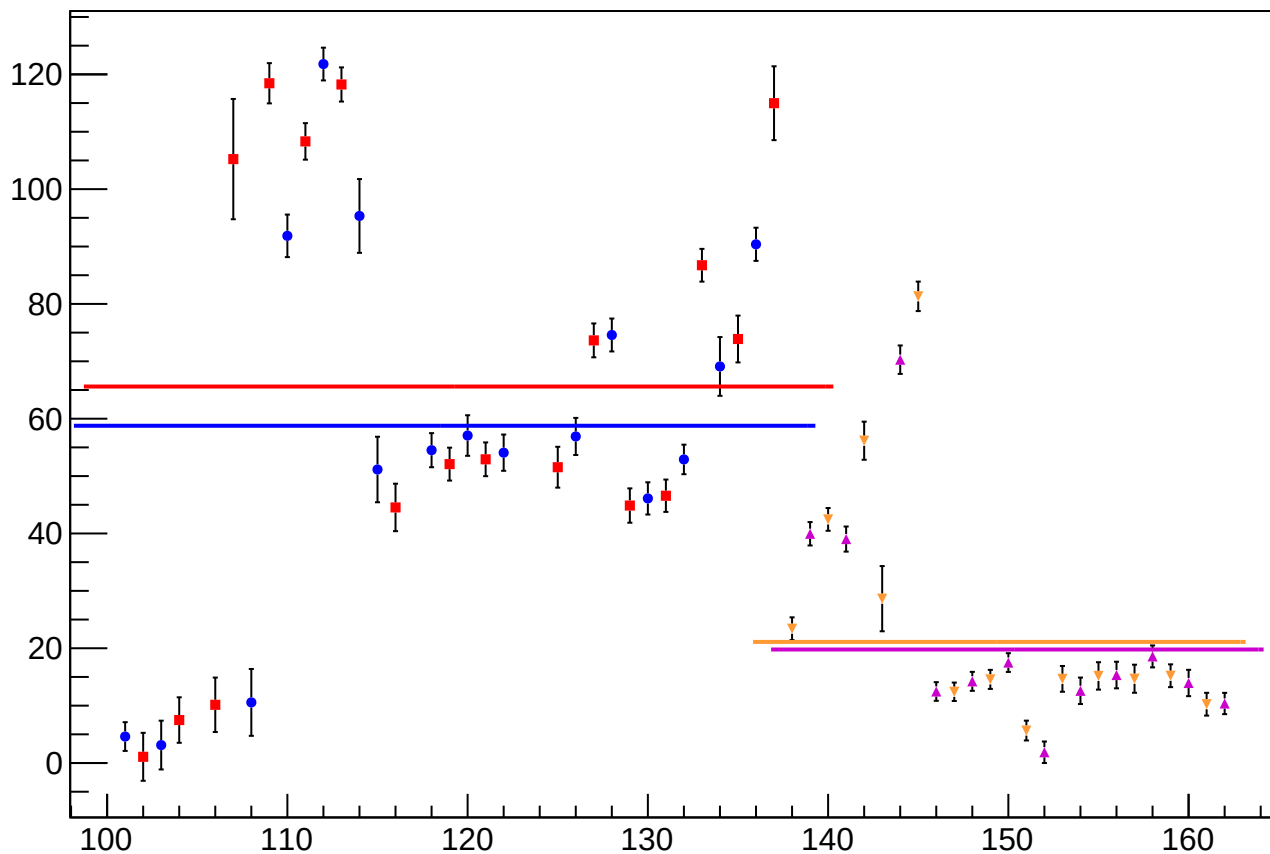
Left In:  $2.225 \pm 0.394$   $\chi^2/\text{NDF}$ : 110.7/11

+ sign  $4.587 \pm 0.292$   $\chi^2/\text{NDF}$ : 613.7/28

All:  $4.828 \pm 0.208$   $\chi^2/\text{NDF}$ : 1195.4/57

- sign  $5.077 \pm 0.296$   $\chi^2/\text{NDF}$ : 580.3/28

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 58.770 $\pm$ 0.833  $\chi^2/\text{NDF}$ : 1493.3/15

Left Out: 21.103 $\pm$ 0.586  $\chi^2/\text{NDF}$ : 964.4/12

Right Out: 65.606 $\pm$ 0.845  $\chi^2/\text{NDF}$ : 1625.3/16

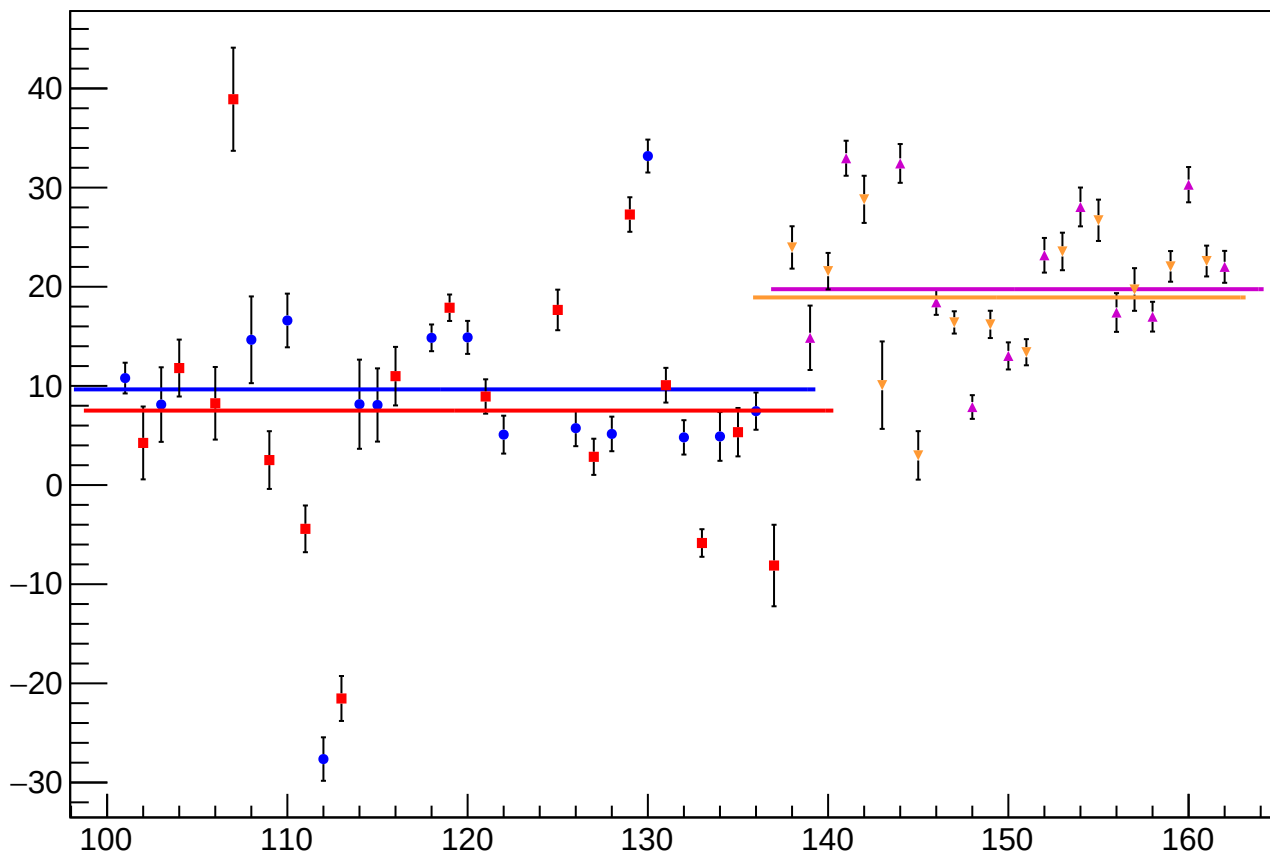
Left In: 19.781 $\pm$ 0.564  $\chi^2/\text{NDF}$ : 761.1/11

+ sign 33.567 $\pm$ 0.479  $\chi^2/\text{NDF}$ : 3826.1/28

All: 33.741 $\pm$ 0.335  $\chi^2/\text{NDF}$ : 8248.5/57

- sign 33.907 $\pm$ 0.469  $\chi^2/\text{NDF}$ : 4422.2/28

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}$ : 553.6/15

Left Out:  $18.922 \pm 0.479$   $\chi^2/\text{NDF}$ : 127.6/12

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}$ : 564.3/16

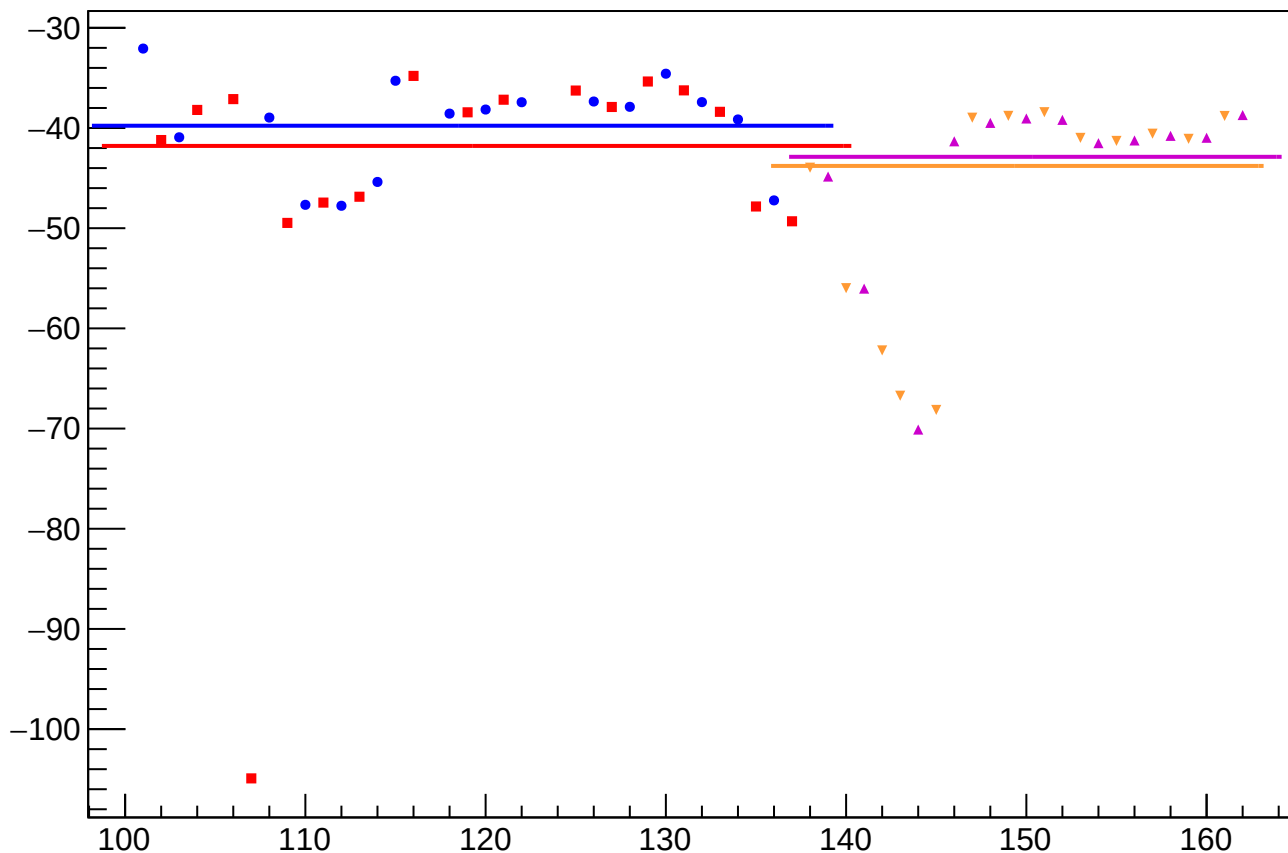
Left In:  $19.754 \pm 0.470$   $\chi^2/\text{NDF}$ : 287.9/11

+ sign  $14.504 \pm 0.346$   $\chi^2/\text{NDF}$ : 859.9/28

All:  $14.357 \pm 0.245$   $\chi^2/\text{NDF}$ : 2019.8/57

- sign  $14.208 \pm 0.348$   $\chi^2/\text{NDF}$ : 1159.6/28

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-43.784 \pm 0.023$   $\chi^2/\text{NDF}$ : 129996.0/12

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

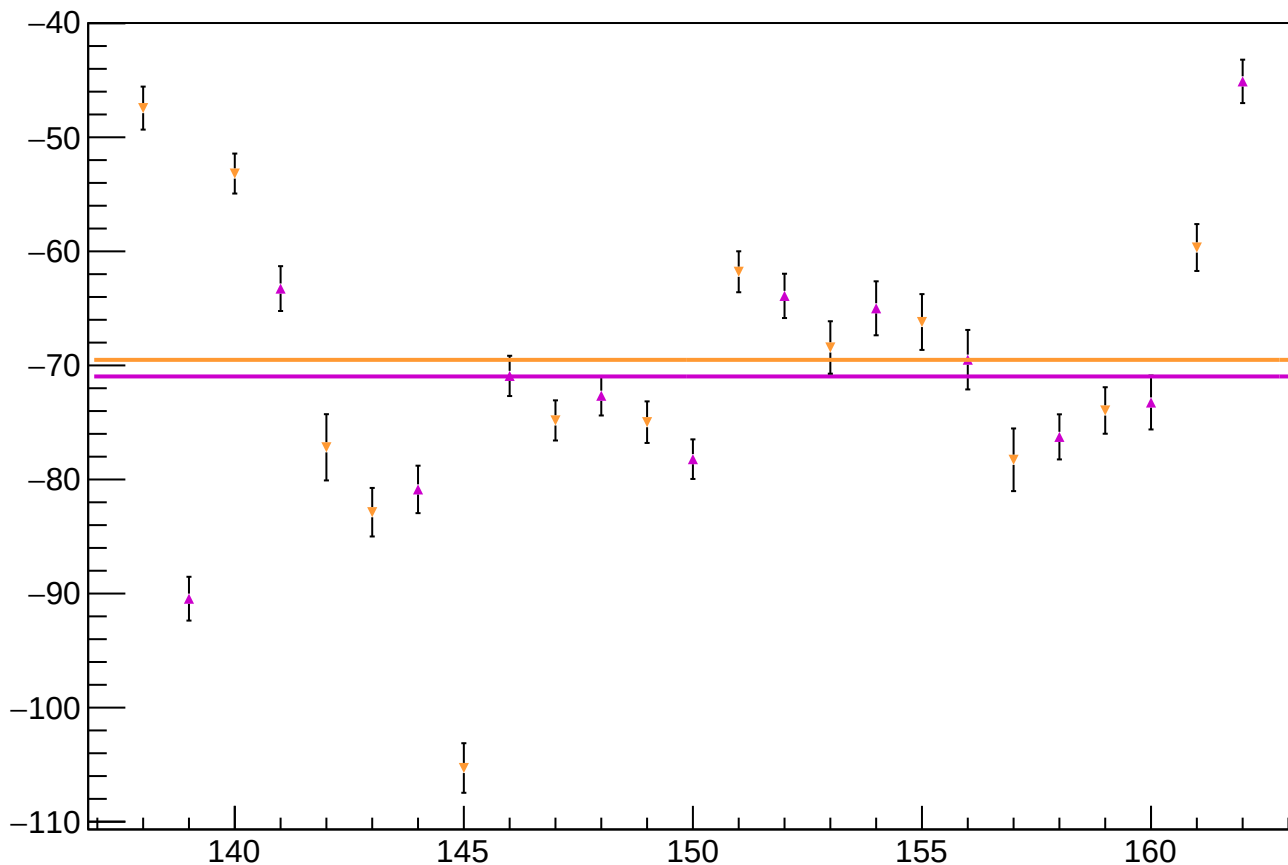
Left In:  $-42.874 \pm 0.022$   $\chi^2/\text{NDF}$ : 99123.2/11

+ sign  $-42.343 \pm 0.019$   $\chi^2/\text{NDF}$ : 166836.8/28

All:  $-42.430 \pm 0.013$   $\chi^2/\text{NDF}$ : 359810.8/57

- sign  $-42.512 \pm 0.018$   $\chi^2/\text{NDF}$ : 192931.3/28

# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -69.512 $\pm$ 0.572  $\chi^2$ /NDF:617.8/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

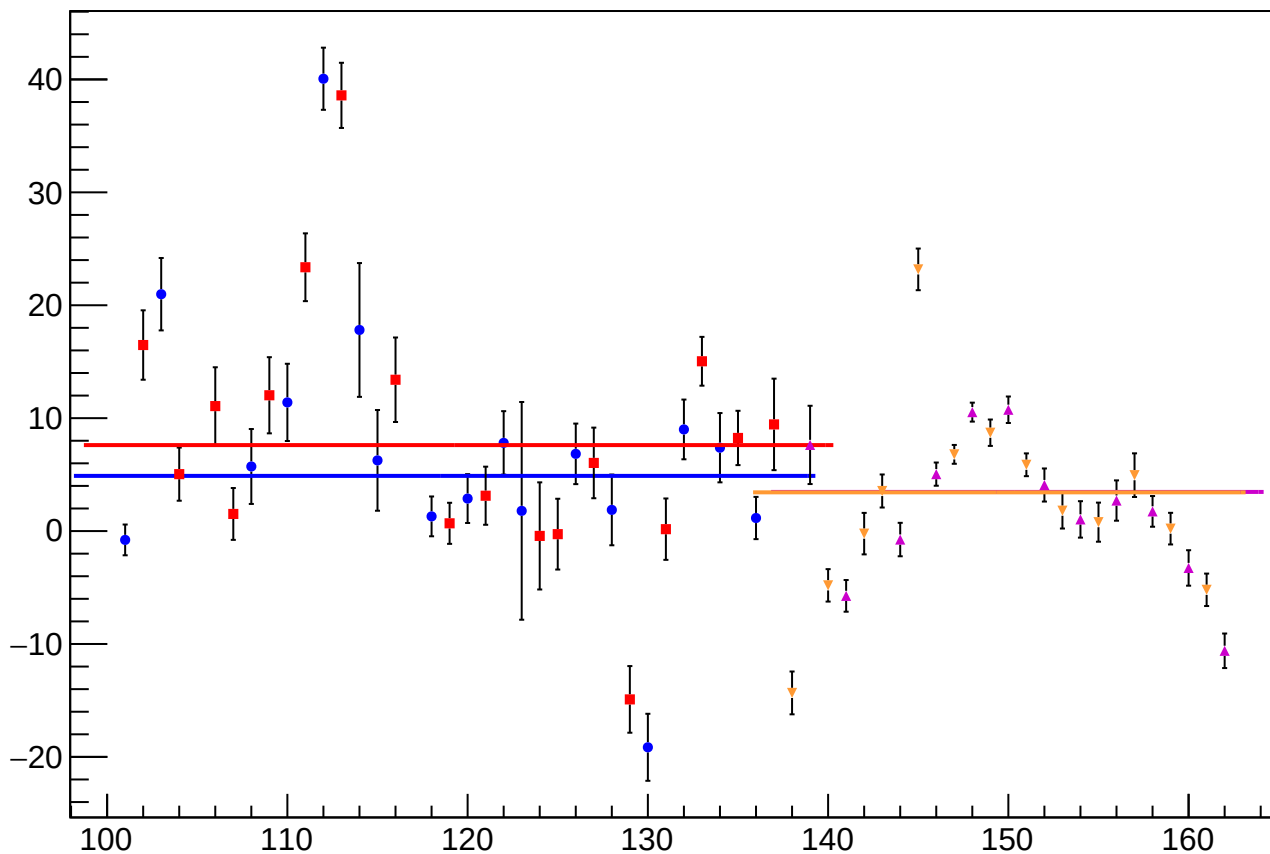
Left In: -70.967 $\pm$ 0.573  $\chi^2$ /NDF:372.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -70.239 $\pm$ 0.405  $\chi^2$ /NDF: 993.2/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $3.430 \pm 0.379$   $\chi^2/\text{NDF}$ : 327.1/12

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

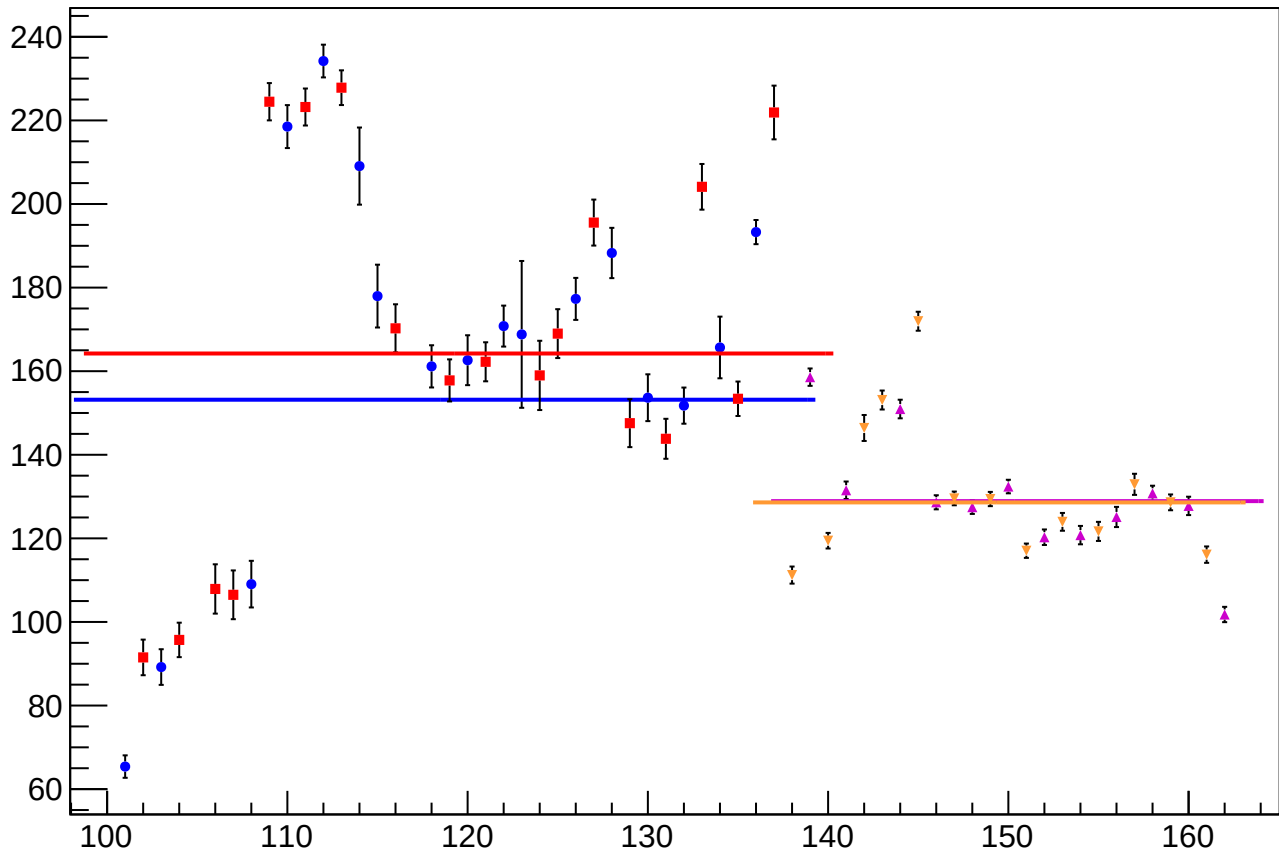
Left In:  $3.467 \pm 0.387$   $\chi^2/\text{NDF}$ : 271.6/11

+ sign  $3.825 \pm 0.324$   $\chi^2/\text{NDF}$ : 625.8/29

All:  $4.176 \pm 0.232$   $\chi^2/\text{NDF}$ : 1198.9/59

- sign  $4.547 \pm 0.333$   $\chi^2/\text{NDF}$ : 570.7/29

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.174 $\pm$ 1.146  $\chi^2$ /NDF: 2264.3/16

Left Out: 128.602 $\pm$ 0.561  $\chi^2$ /NDF: 714.1/12

Right Out: 164.232 $\pm$ 1.183  $\chi^2$ /NDF: 1554.8/17

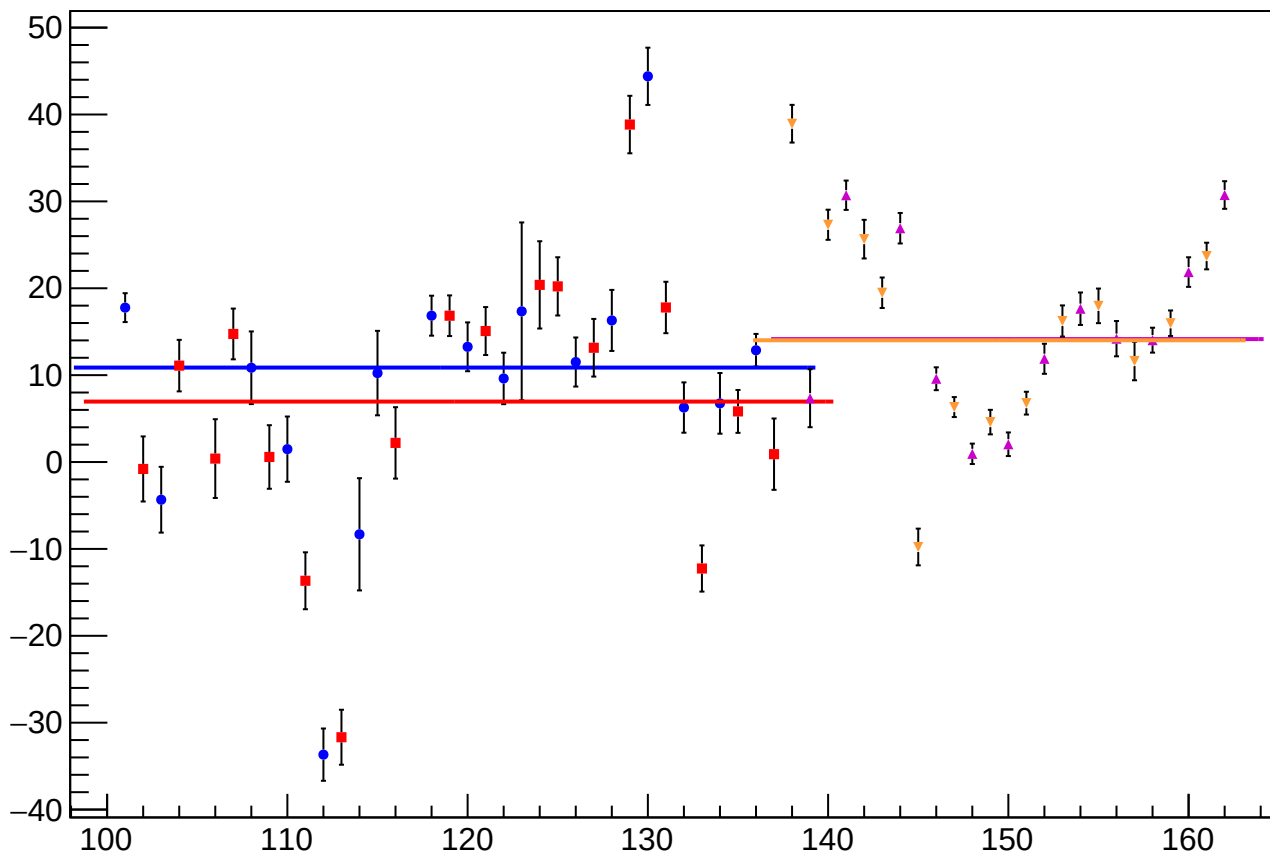
Left In: 128.910 $\pm$ 0.555  $\chi^2$ /NDF: 567.0/11

+ sign 133.345 $\pm$ 0.504  $\chi^2$ /NDF: 3349.1/29

All: 134.316 $\pm$ 0.356  $\chi^2$ /NDF: 6208.8/59

- sign 135.283 $\pm$ 0.503  $\chi^2$ /NDF: 2852.2/29

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 10.872 +/- 0.714  $\chi^2/\text{NDF}$ : 386.7/16

Left Out: 14.014 +/- 0.457  $\chi^2/\text{NDF}$ : 522.6/12

Right Out: 6.958 +/- 0.749  $\chi^2/\text{NDF}$ : 422.3/17

Left In: 14.151 +/- 0.461  $\chi^2/\text{NDF}$ : 505.5/11

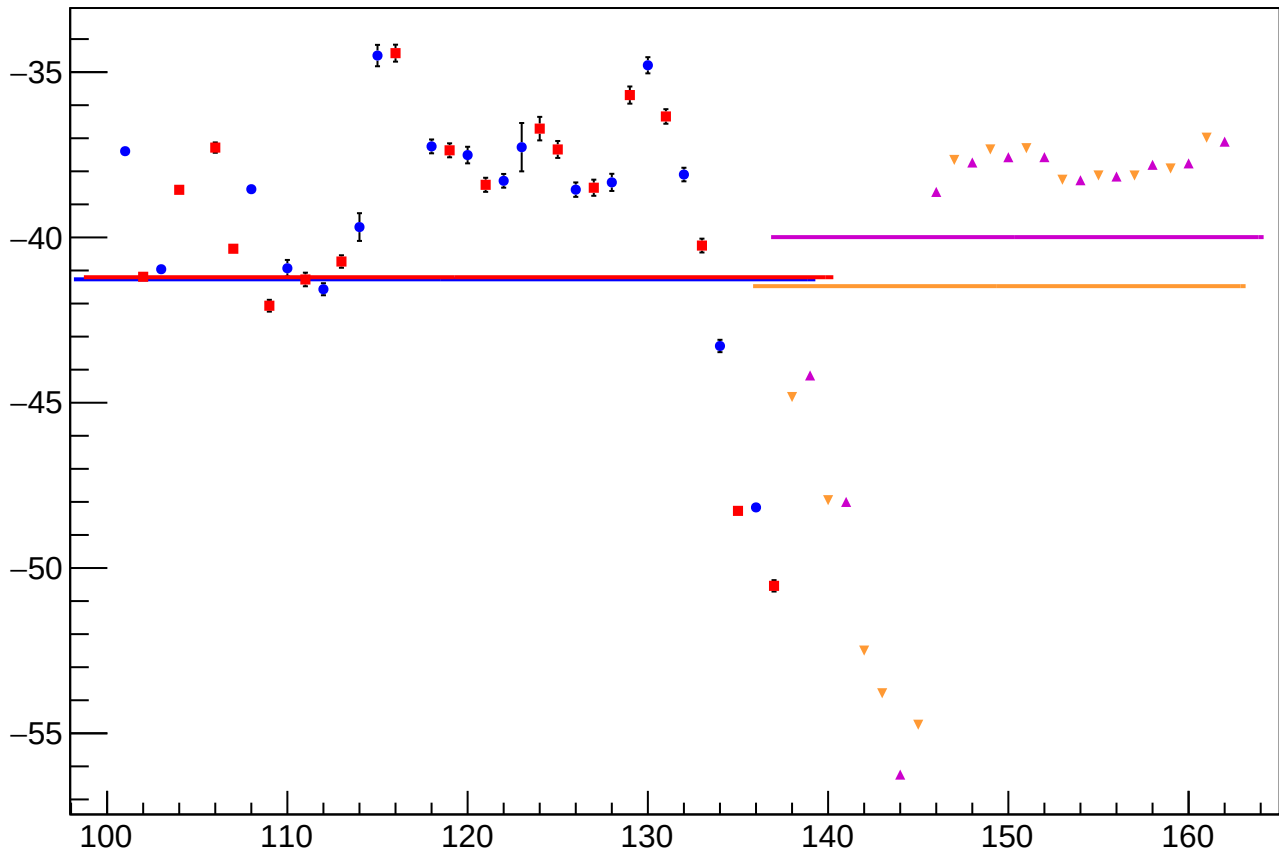
+ sign 13.102 +/- 0.385  $\chi^2/\text{NDF}$ : 923.0/29

All: 12.647 +/- 0.275  $\chi^2/\text{NDF}$ : 1920.5/59

- sign 12.173 +/- 0.393  $\chi^2/\text{NDF}$ : 994.6/29



# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.267 \pm 0.039$   $\chi^2/\text{NDF}: 12581.8/16$

Left Out:  $-41.474 \pm 0.022$   $\chi^2/\text{NDF}: 76254.2/12$

Right Out:  $-41.204 \pm 0.039$   $\chi^2/\text{NDF}: 12008.6/17$

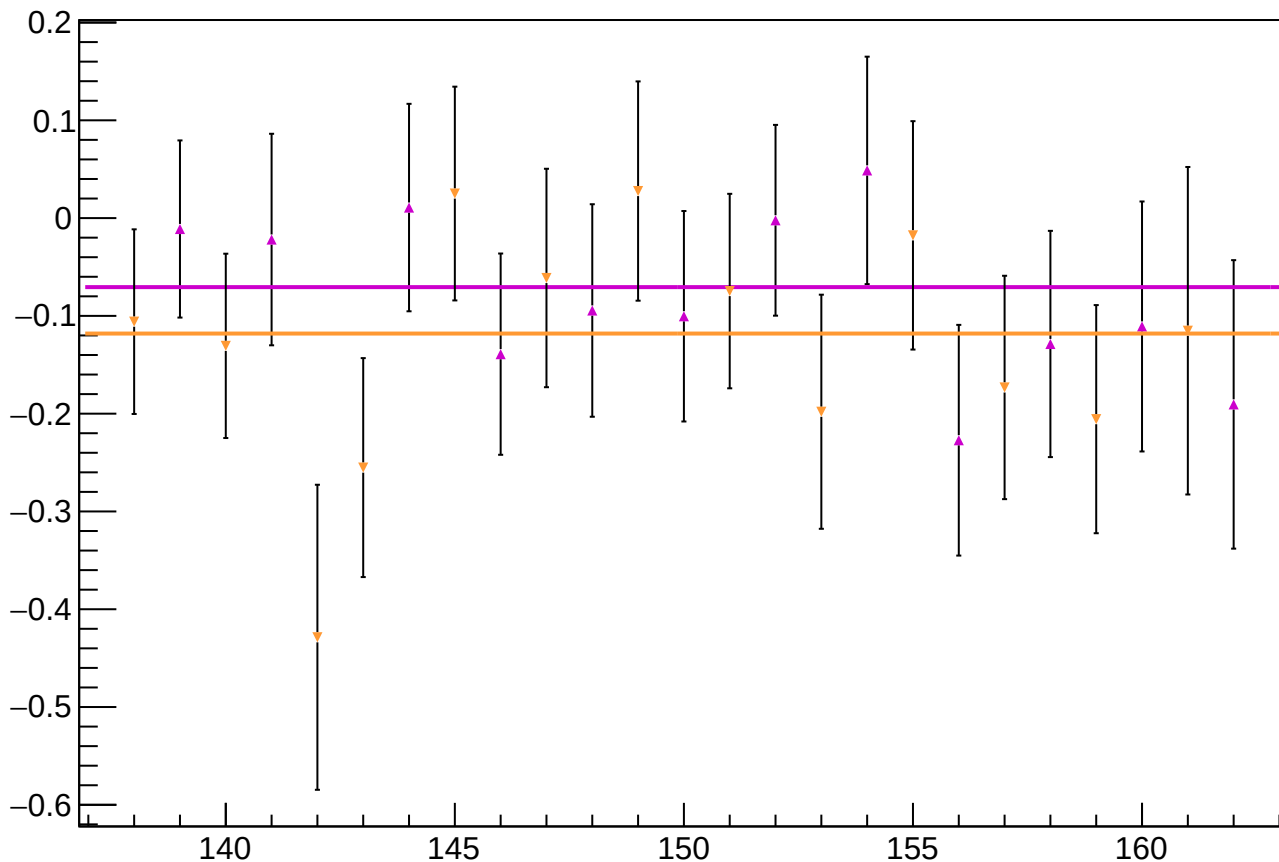
Left In:  $-39.990 \pm 0.022$   $\chi^2/\text{NDF}: 48265.5/11$

+ sign  $-41.422 \pm 0.019$   $\chi^2/\text{NDF}: 88857.5/29$

All:  $-40.845 \pm 0.014$   $\chi^2/\text{NDF}: 151643.8/59$

- sign  $-40.282 \pm 0.019$   $\chi^2/\text{NDF}: 61015.3/29$

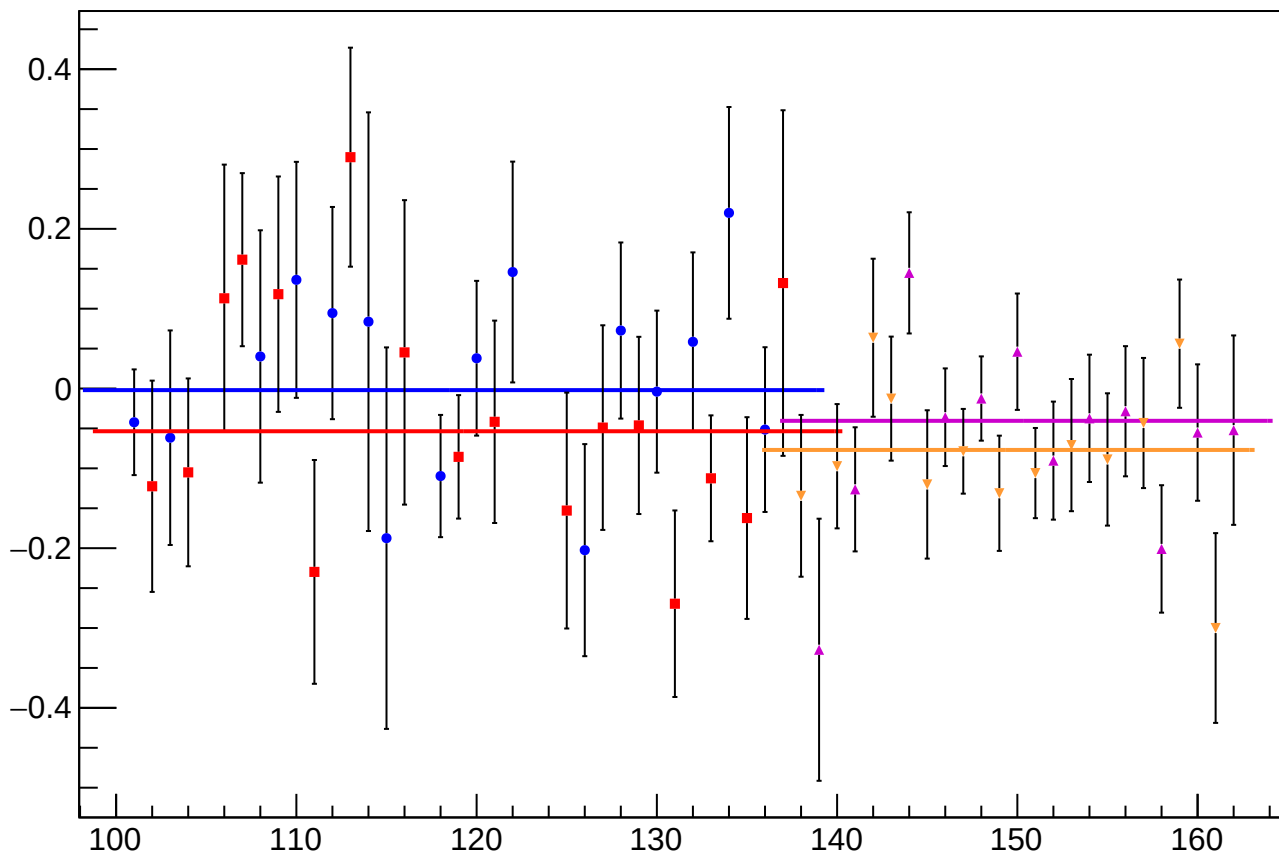
# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.118 +/- 0.031  $\chi^2/\text{NDF}$ : 11.3/12  
 Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.071 +/- 0.032  $\chi^2/\text{NDF}$ : 6.1/11

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -0.095 +/- 0.022  $\chi^2/\text{NDF}$ : 18.6/24  
 - sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 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:  $-0.077 \pm 0.021$   $\chi^2/\text{NDF}$ : 10.6/12

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}$ : 20.9/16

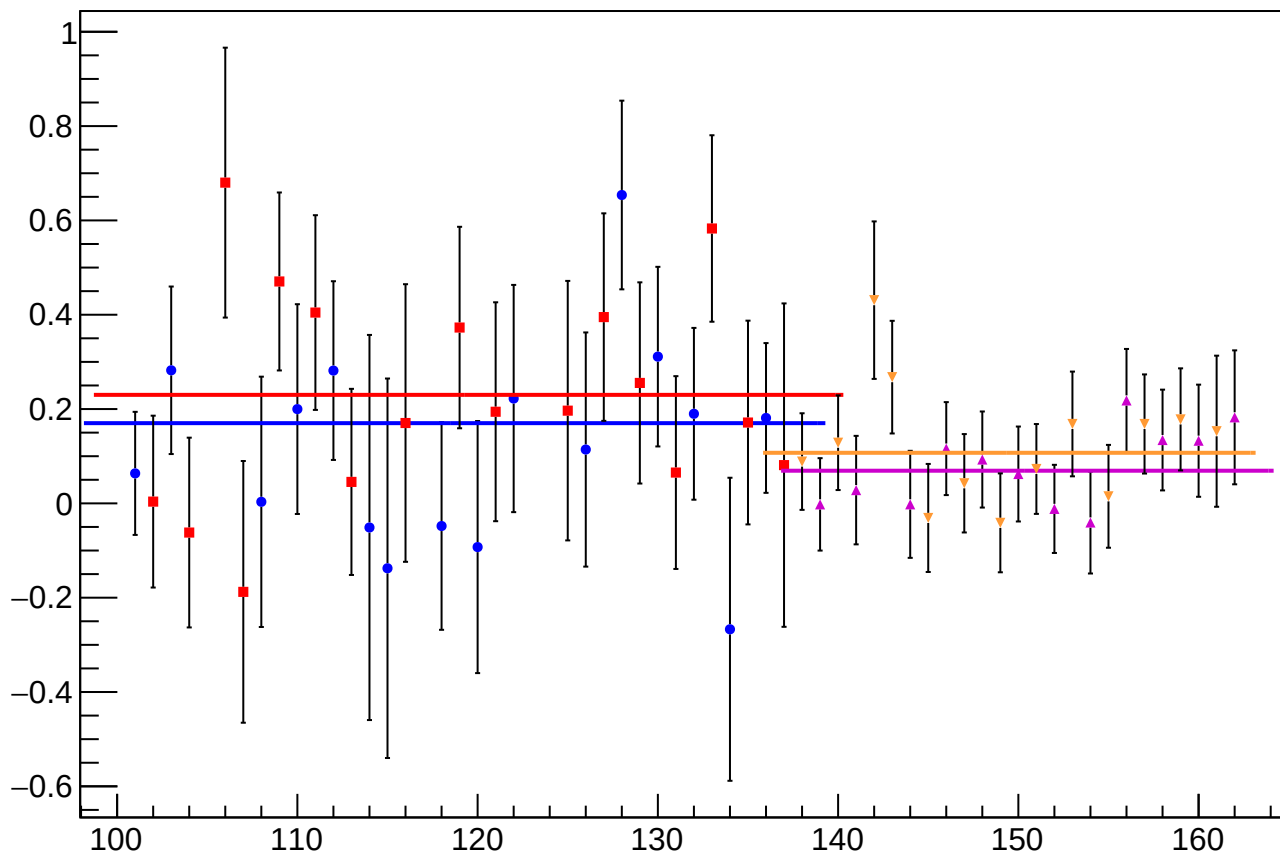
Left In:  $-0.040 \pm 0.022$   $\chi^2/\text{NDF}$ : 16.5/11

+ sign  $-0.050 \pm 0.017$   $\chi^2/\text{NDF}$ : 27.2/28

All:  $-0.047 \pm 0.012$   $\chi^2/\text{NDF}$ : 64.8/57

- sign  $-0.045 \pm 0.018$   $\chi^2/\text{NDF}$ : 37.6/28

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}: 13.0/15$

Left Out:  $0.107 \pm 0.031$   $\chi^2/\text{NDF}: 11.5/12$

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}: 16.8/16$

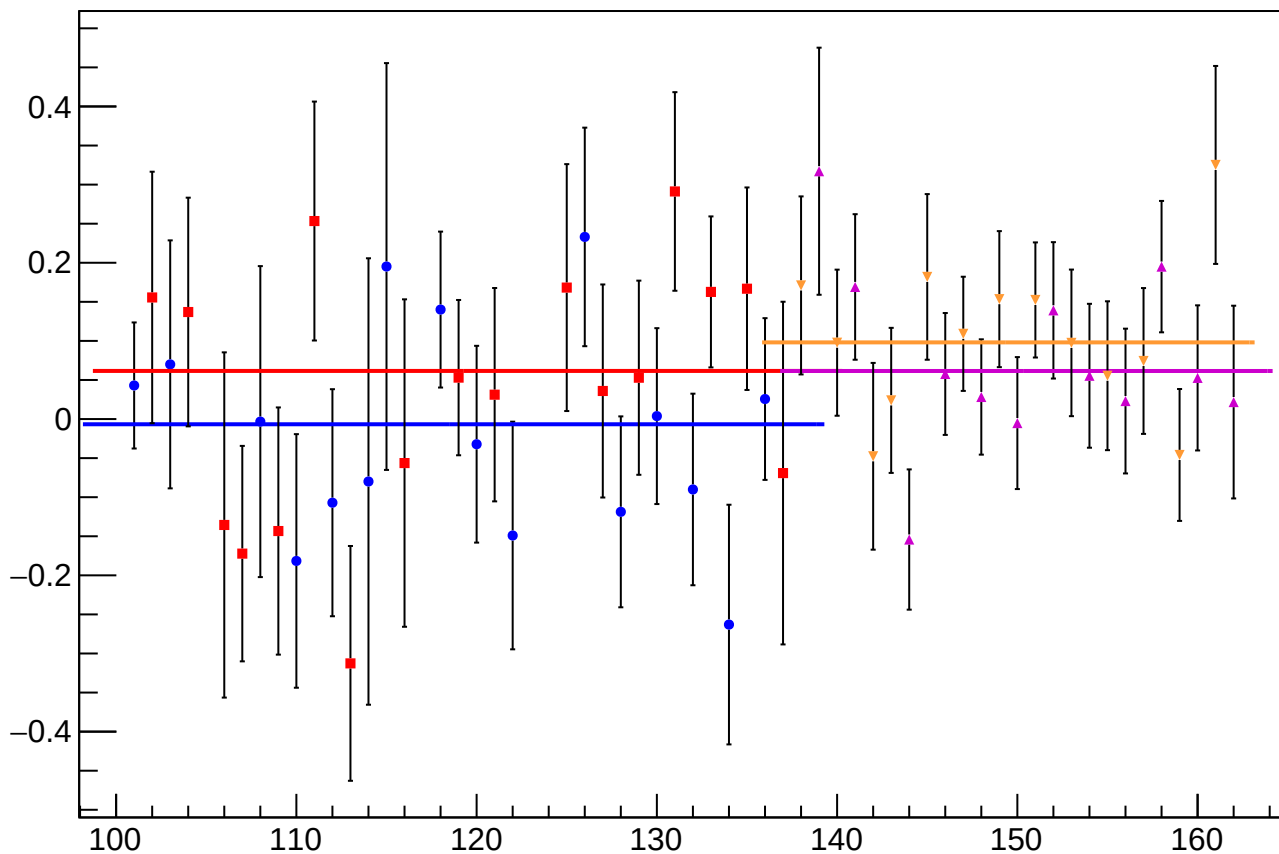
Left In:  $0.069 \pm 0.031$   $\chi^2/\text{NDF}: 6.3/11$

+ sign  $0.123 \pm 0.027$   $\chi^2/\text{NDF}: 25.6/28$

All:  $0.116 \pm 0.019$   $\chi^2/\text{NDF}: 55.5/57$

- sign  $0.109 \pm 0.027$   $\chi^2/\text{NDF}: 29.8/28$

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.098 \pm 0.026$   $\chi^2/\text{NDF}$ : 10.5/12

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

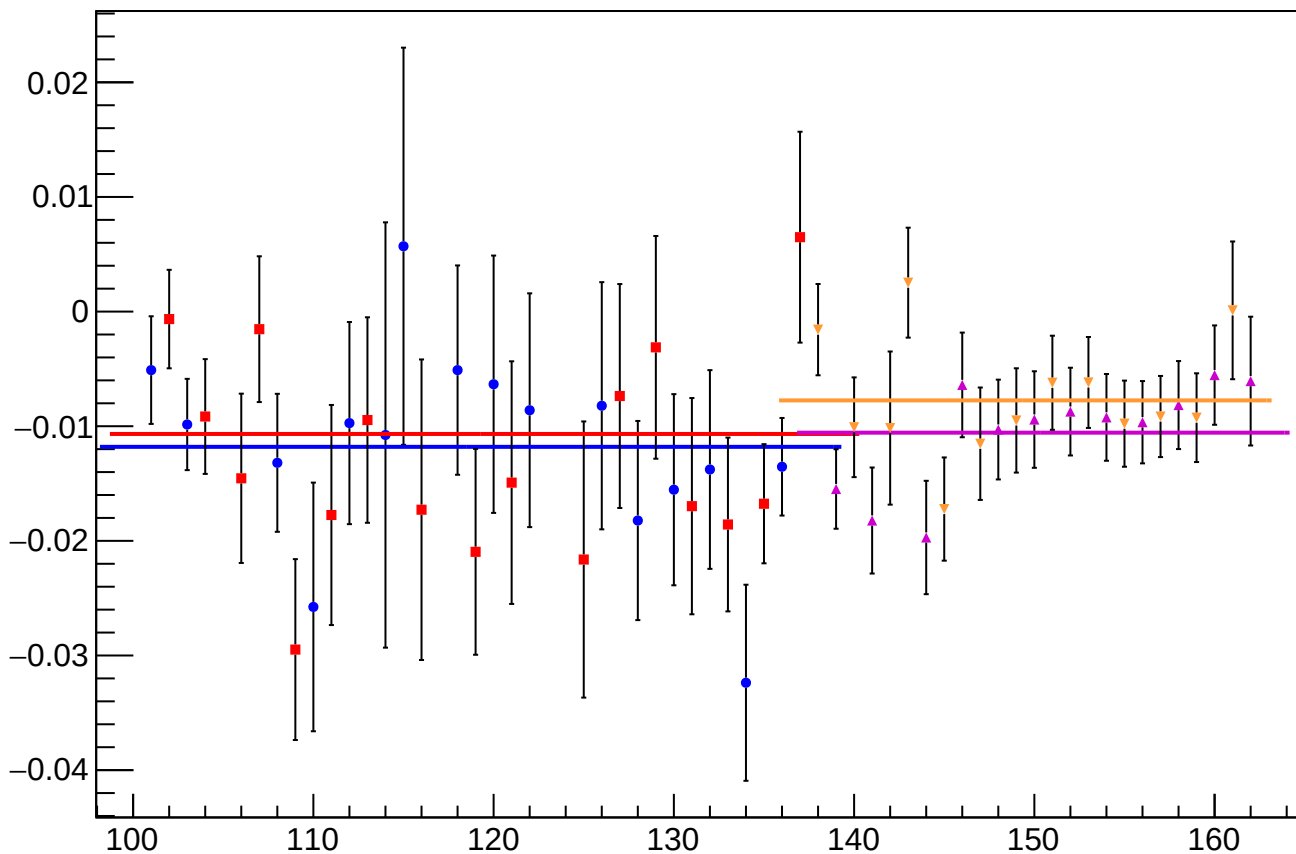
Left In:  $0.062 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.2/11

+ sign  $0.058 \pm 0.020$   $\chi^2/\text{NDF}$ : 30.1/28

All:  $0.060 \pm 0.014$   $\chi^2/\text{NDF}$ : 64.3/57

- sign  $0.062 \pm 0.021$   $\chi^2/\text{NDF}$ : 34.1/28

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 15.2/12

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

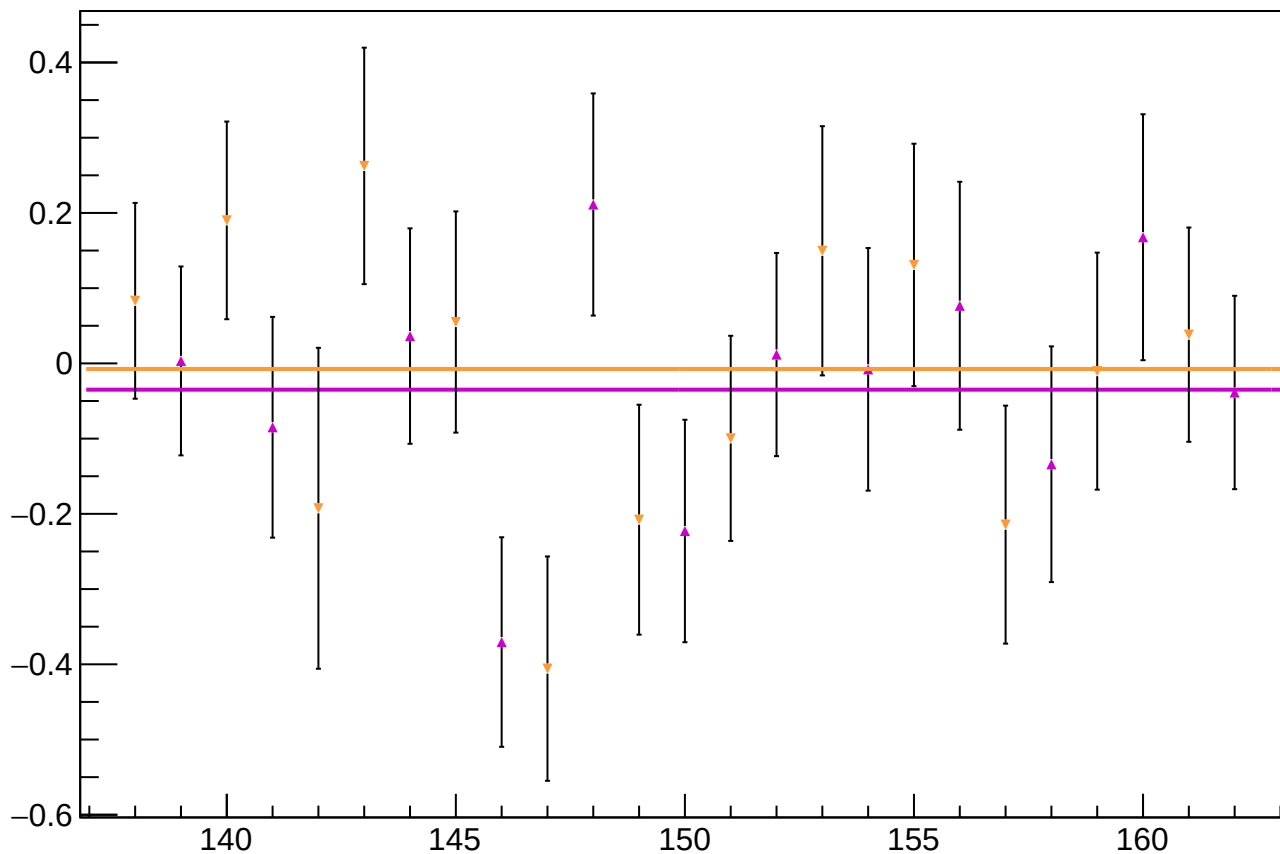
Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 11.9/11

+ sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 31.5/28

All:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 68.5/57

- sign  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 35.7/28

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 19.4/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

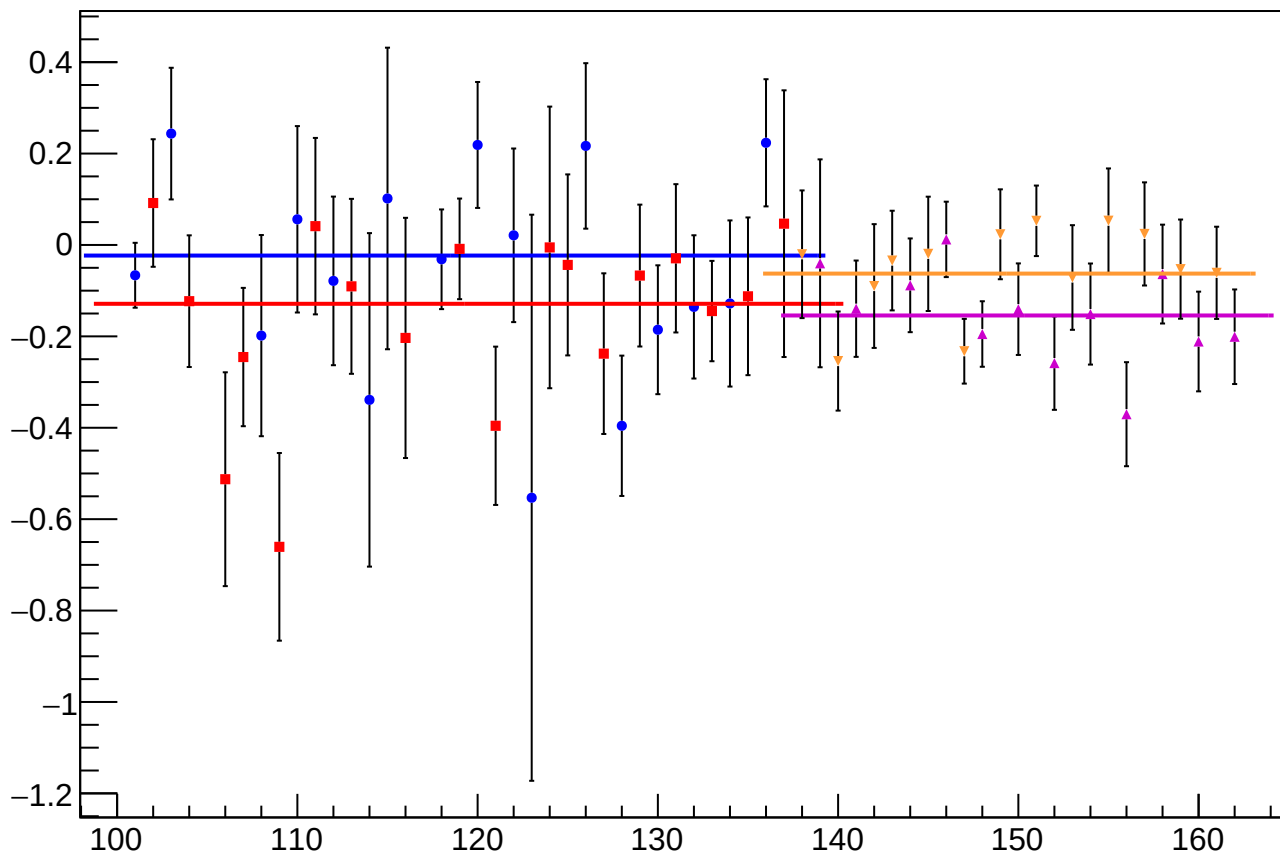
Left In: -0.035 $\pm$ 0.042  $\chi^2$ /NDF: 13.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.030  $\chi^2$ /NDF: 32.8/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In: -0.023±/0.037  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -0.063±/0.029  $\chi^2/\text{NDF}$ :13.8/12

Right Out: -0.129±/0.039  $\chi^2/\text{NDF}$ : 18.6/17

Left In: -0.154±/0.029  $\chi^2/\text{NDF}$ :10.9/11

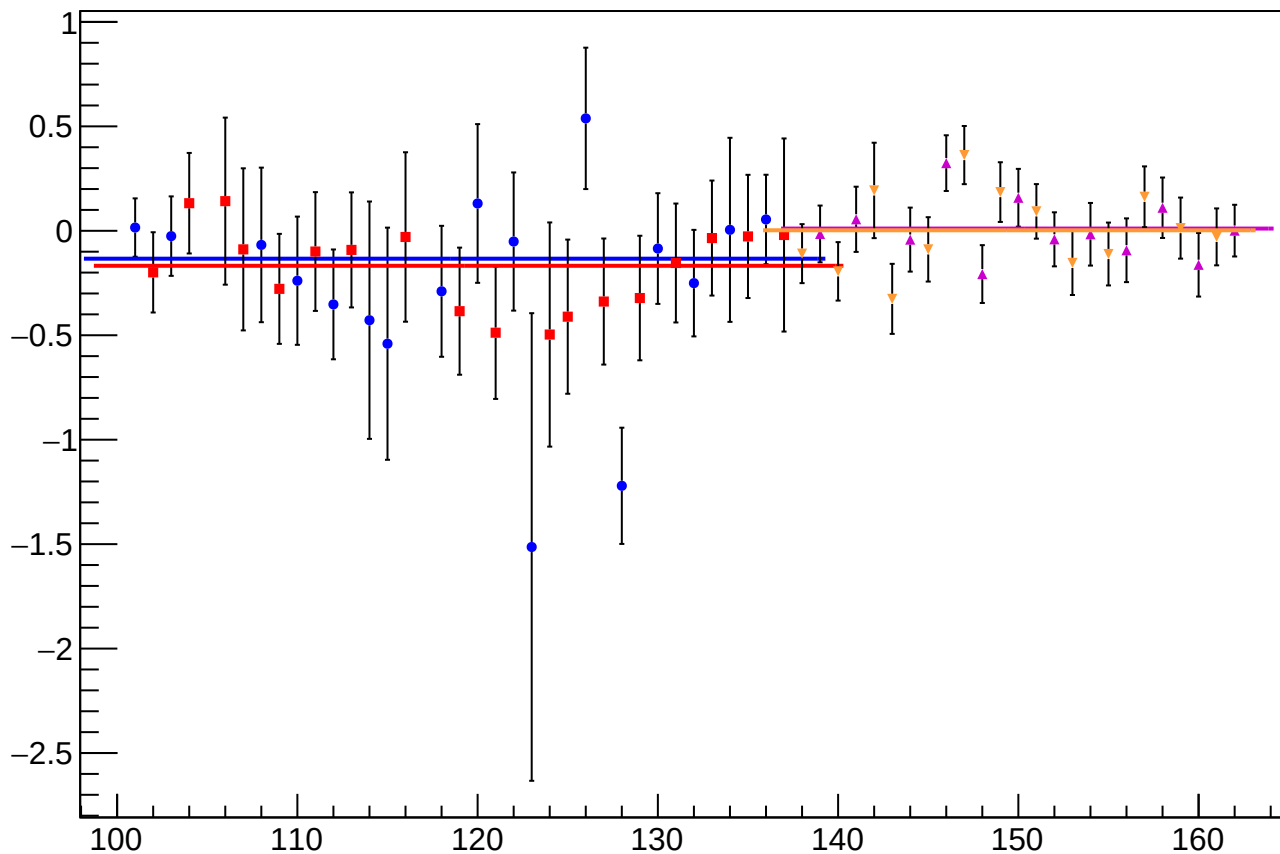
+ sign -0.048±/0.023  $\chi^2/\text{NDF}$ : 37.0/29

All: -0.094±/0.016  $\chi^2/\text{NDF}$ : 75.7/59

- sign -0.145±/0.024  $\chi^2/\text{NDF}$ : 29.8/29



# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $0.003 \pm 0.041$   $\chi^2/\text{NDF}$ : 19.2/12

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

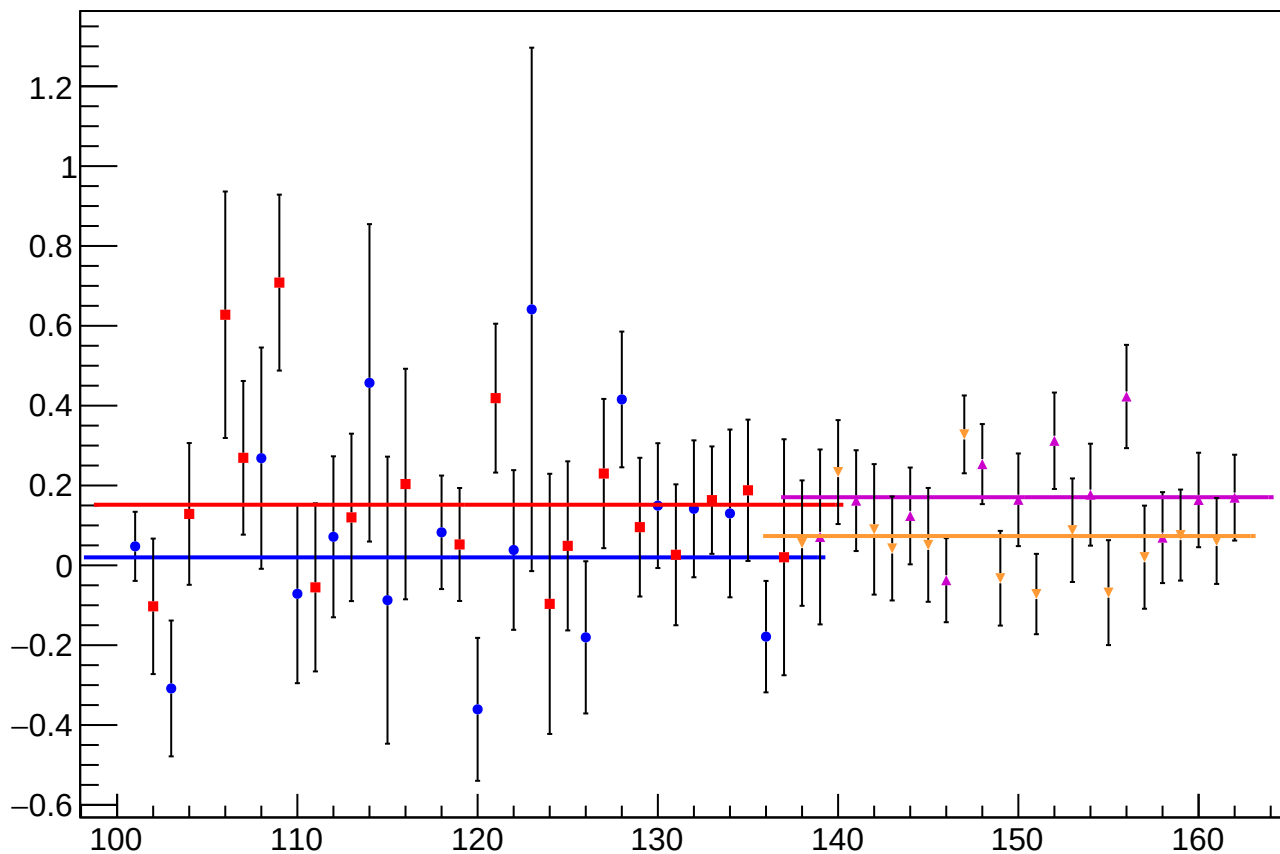
Left In:  $0.011 \pm 0.041$   $\chi^2/\text{NDF}$ : 11.8/11

+ sign  $-0.035 \pm 0.035$   $\chi^2/\text{NDF}$ : 47.9/29

All:  $-0.034 \pm 0.025$   $\chi^2/\text{NDF}$ : 70.6/59

- sign  $-0.033 \pm 0.035$   $\chi^2/\text{NDF}$ : 22.7/29

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.020 \pm 0.042$   $\chi^2/\text{NDF}$ : 21.8/16

Left Out:  $0.073 \pm 0.034$   $\chi^2/\text{NDF}$ : 12.7/12

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}$ : 16.8/17

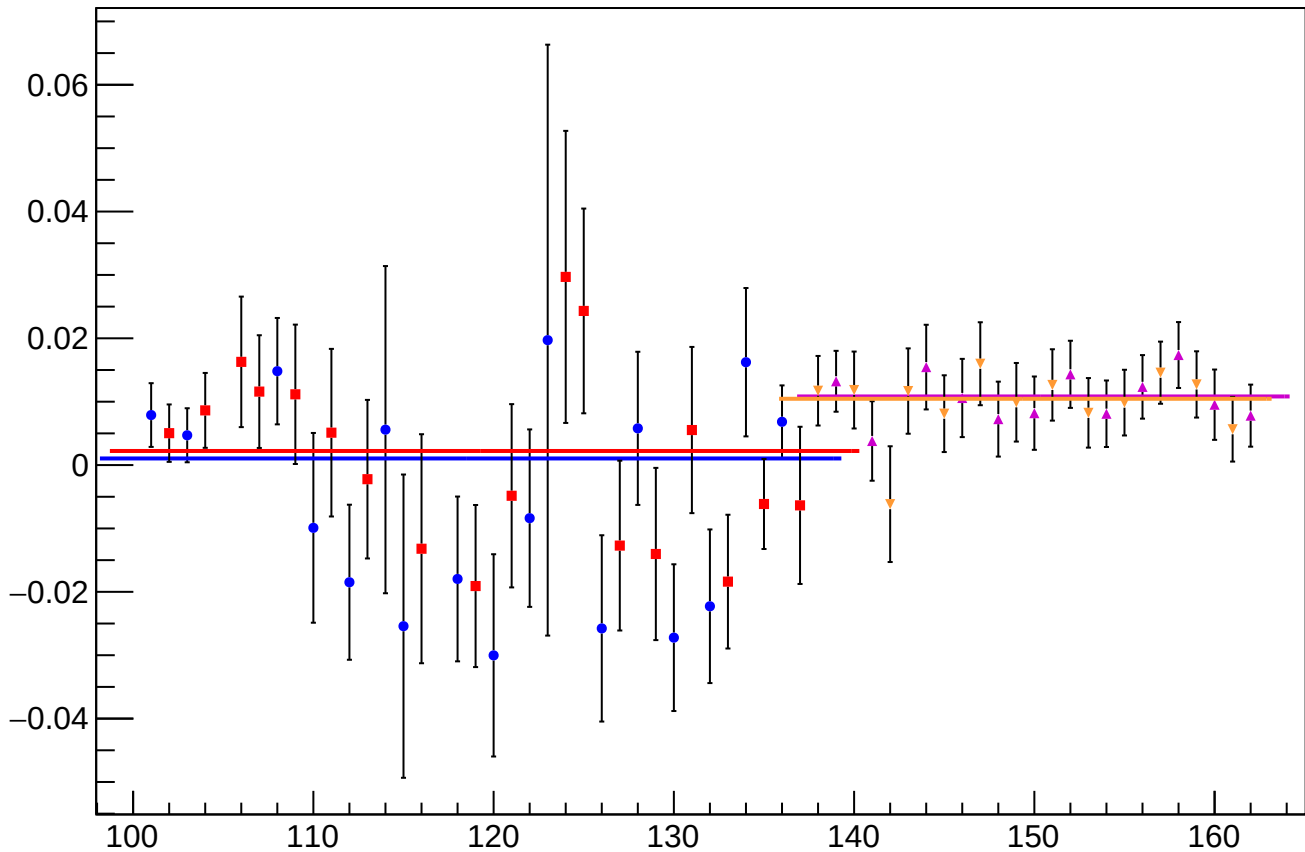
Left In:  $0.171 \pm 0.034$   $\chi^2/\text{NDF}$ : 10.9/11

+ sign  $0.052 \pm 0.027$   $\chi^2/\text{NDF}$ : 35.4/29

All:  $0.106 \pm 0.019$   $\chi^2/\text{NDF}$ : 71.8/59

- sign  $0.164 \pm 0.027$   $\chi^2/\text{NDF}$ : 27.8/29

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 32.0/16

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.4/12

Right Out: 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 20.8/17

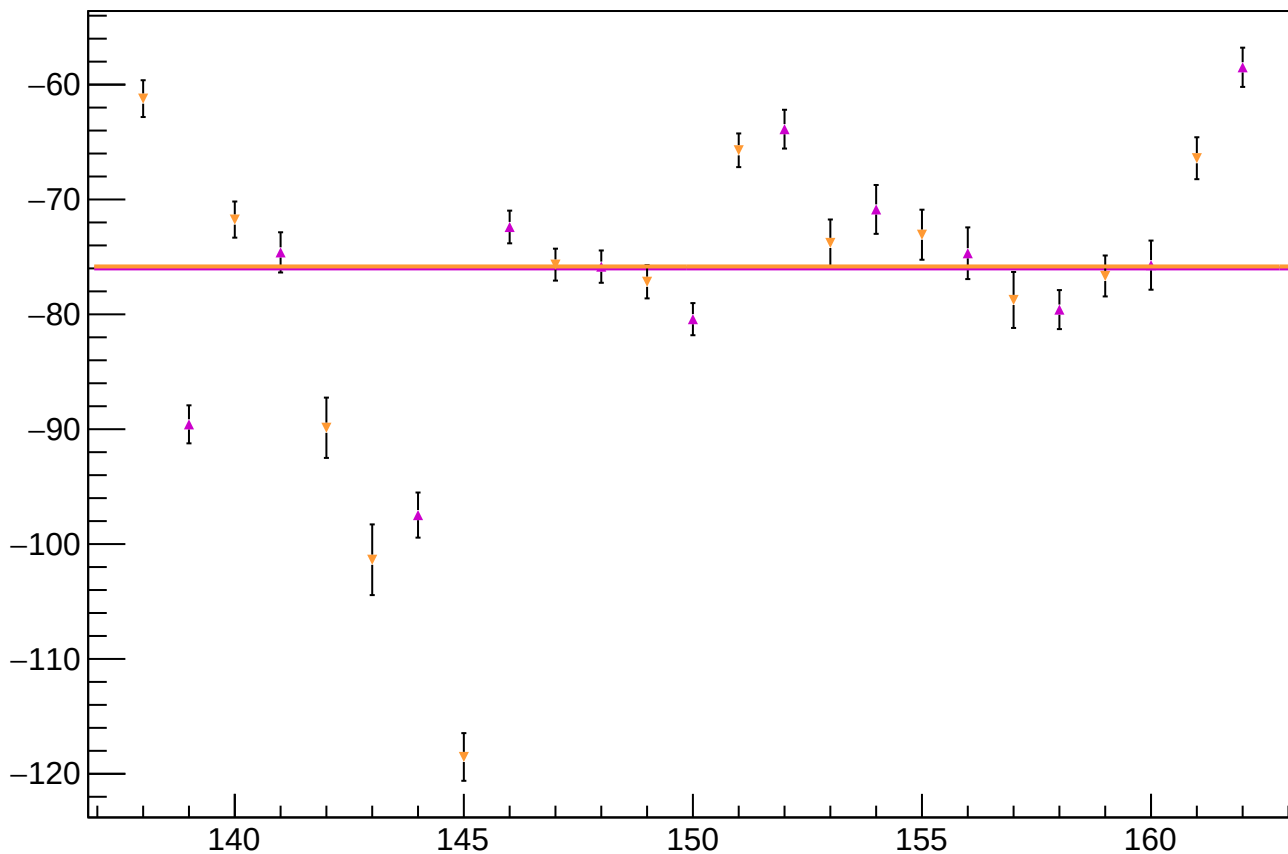
Left In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF: 5.4/11

+ sign 0.007 $\pm$ 0.001  $\chi^2$ /NDF: 50.2/29

All: 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 86.2/59

- sign 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 35.8/29

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -75.831+/-0.502  $\chi^2/\text{NDF}$ : 690.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

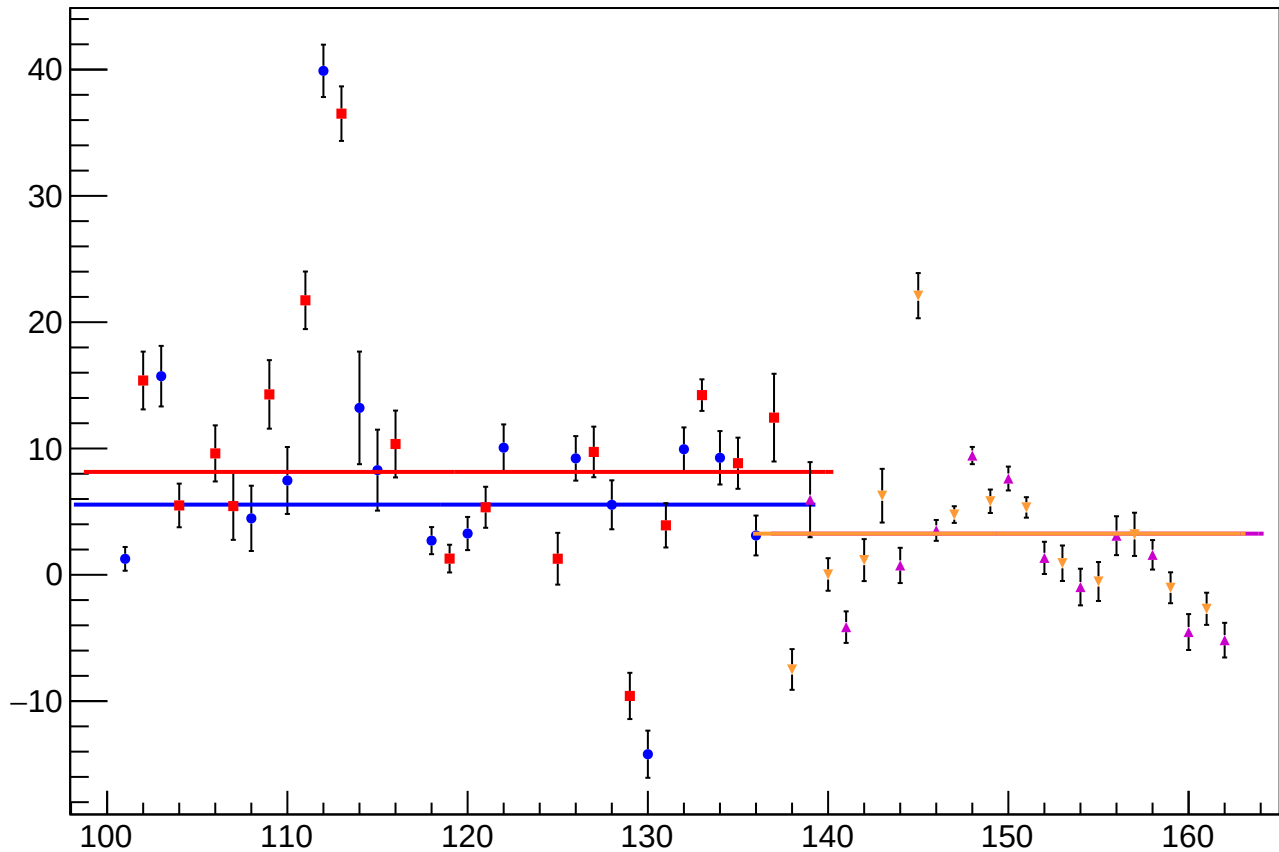
Left In: -76.001+/-0.492  $\chi^2/\text{NDF}$ : 371.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -75.918+/-0.351  $\chi^2/\text{NDF}$ : 1061.3/24

- 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:  $3.259 \pm 0.326$   $\chi^2/\text{NDF}$ : 227.8/12

Right Out:  $8.146 \pm 0.454$   $\chi^2/\text{NDF}$ : 406.8/16

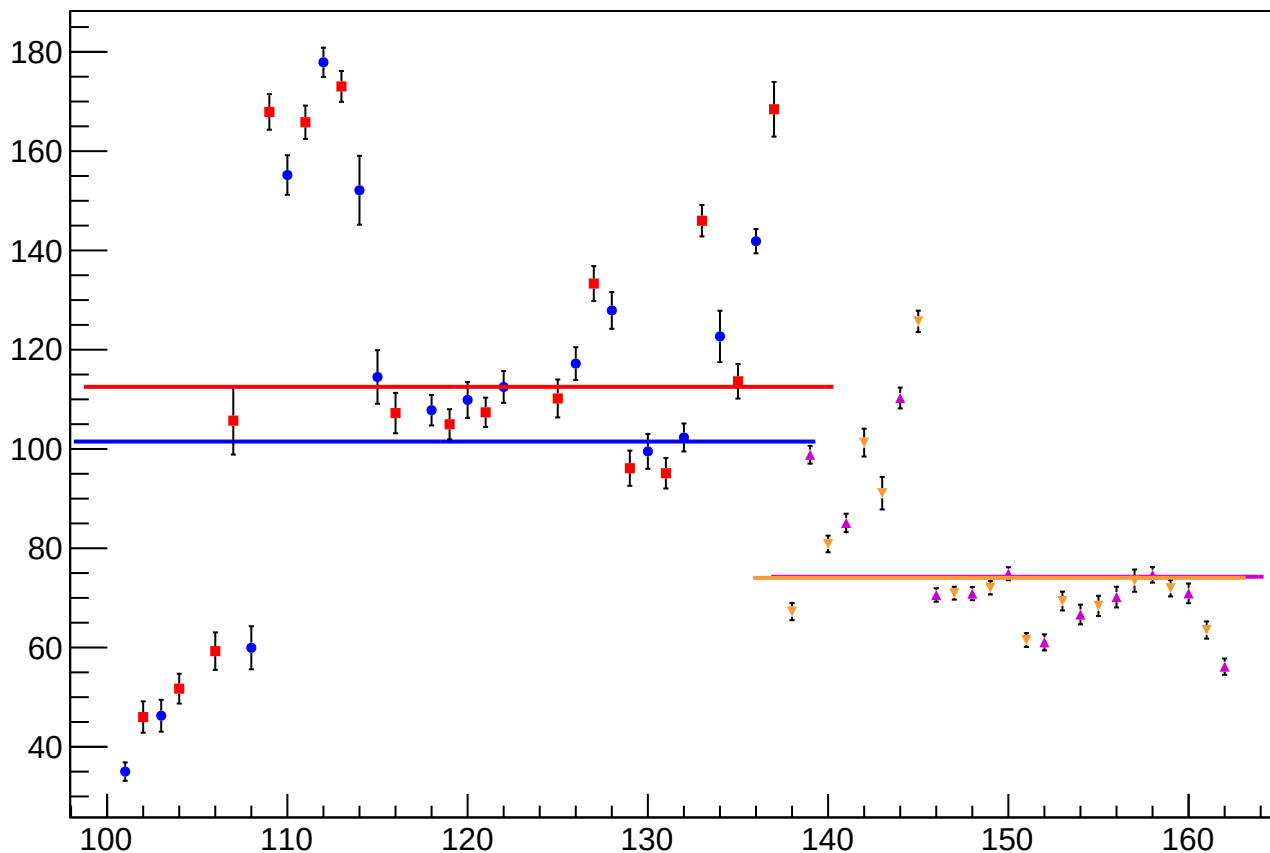
Left In:  $3.259 \pm 0.328$   $\chi^2/\text{NDF}$ : 223.5/11

+ sign  $4.112 \pm 0.258$   $\chi^2/\text{NDF}$ : 708.3/28

All:  $4.511 \pm 0.185$   $\chi^2/\text{NDF}$ : 1419.5/57

- sign  $4.935 \pm 0.266$   $\chi^2/\text{NDF}$ : 706.3/28

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.496 $\pm$ 0.808  $\chi^2$ /NDF: 2973.0/15

Left Out: 74.038 $\pm$ 0.489  $\chi^2$ /NDF:868.3/12

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

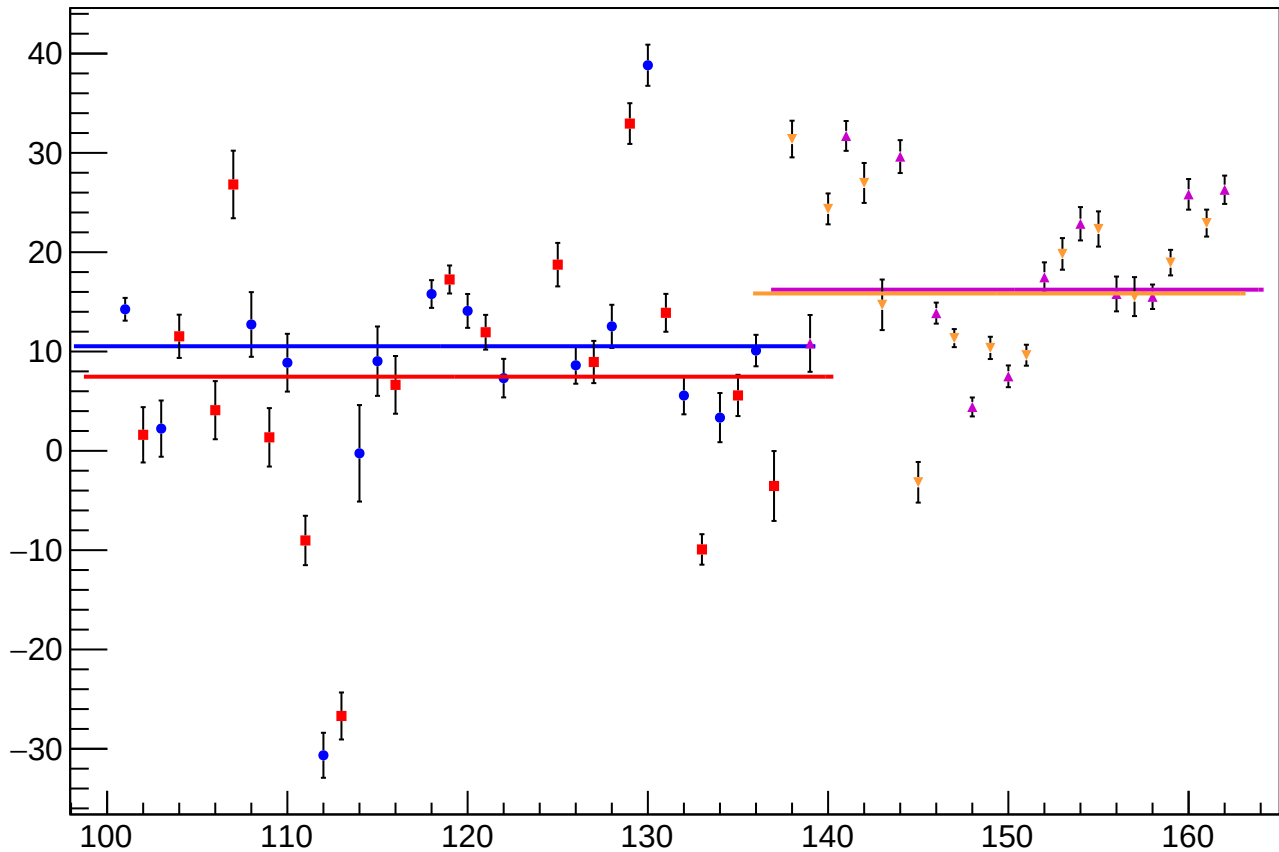
Left In: 74.267 $\pm$ 0.475  $\chi^2$ /NDF:739.8/11

+ sign 81.385 $\pm$ 0.418  $\chi^2$ /NDF: 4686.6/28

All: 82.450 $\pm$ 0.294  $\chi^2$ /NDF: 9237.9/57

- sign 83.494 $\pm$ 0.414  $\chi^2$ /NDF: 4538.5/28

# 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:  $15.846 \pm 0.396$   $\chi^2/\text{NDF}: 353.9/12$

Right Out:  $7.466 \pm 0.525$   $\chi^2/\text{NDF}: 685.0/16$

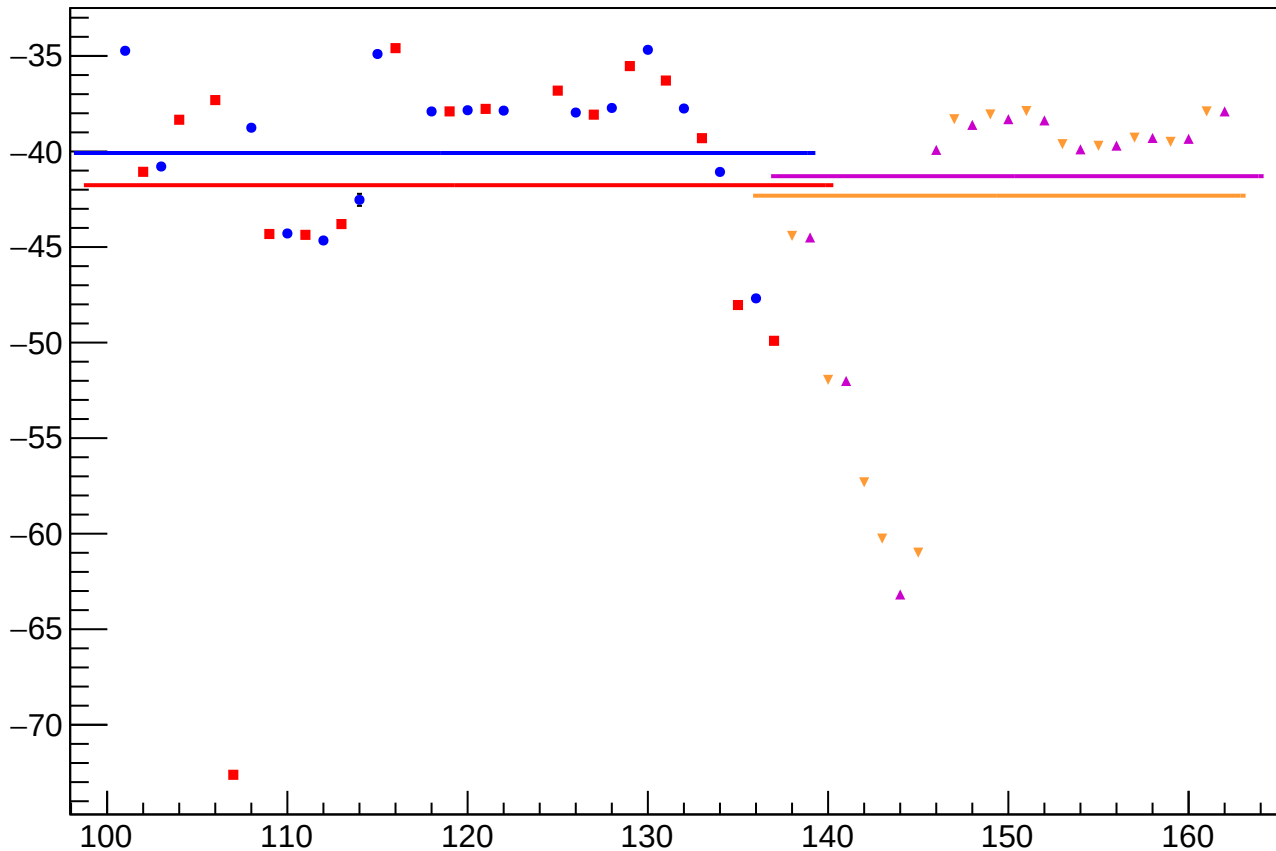
Left In:  $16.227 \pm 0.394$   $\chi^2/\text{NDF}: 502.2/11$

+ sign  $13.760 \pm 0.309$   $\chi^2/\text{NDF}: 1004.8/28$

All:  $13.424 \pm 0.221$   $\chi^2/\text{NDF}: 2372.6/57$

- sign  $13.074 \pm 0.315$   $\chi^2/\text{NDF}: 1365.3/28$

# 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:  $-42.313 \pm 0.020$   $\chi^2/\text{NDF}$ : 128591.3/12

Right Out:  $-41.764 \pm 0.029$   $\chi^2/\text{NDF}$ : 60249.3/16

Left In:  $-41.292 \pm 0.019$   $\chi^2/\text{NDF}$ : 92615.7/11

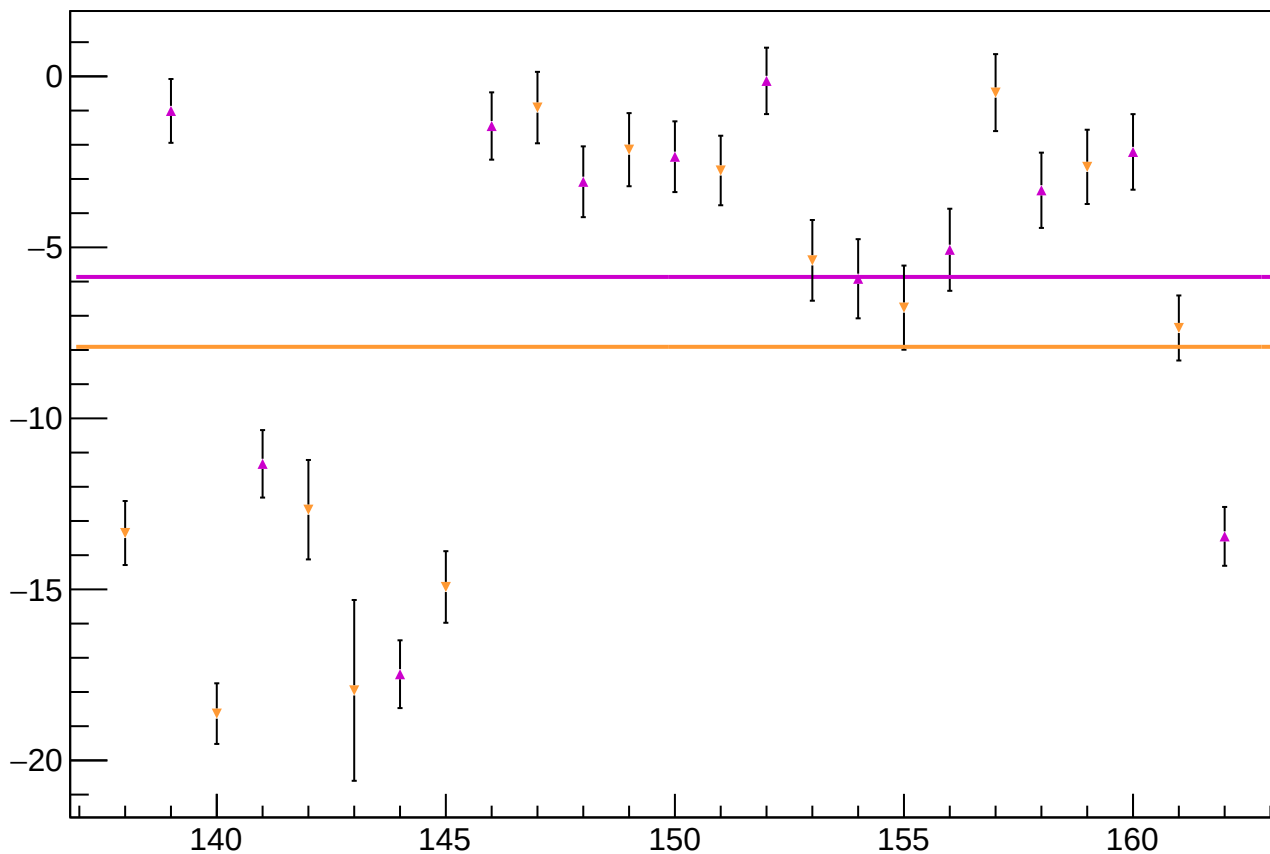
+ sign  $-41.589 \pm 0.016$   $\chi^2/\text{NDF}$ : 157973.6/28

All:  $-41.509 \pm 0.011$   $\chi^2/\text{NDF}$ : 311074.6/57

- sign  $-41.432 \pm 0.016$   $\chi^2/\text{NDF}$ : 153052.6/28



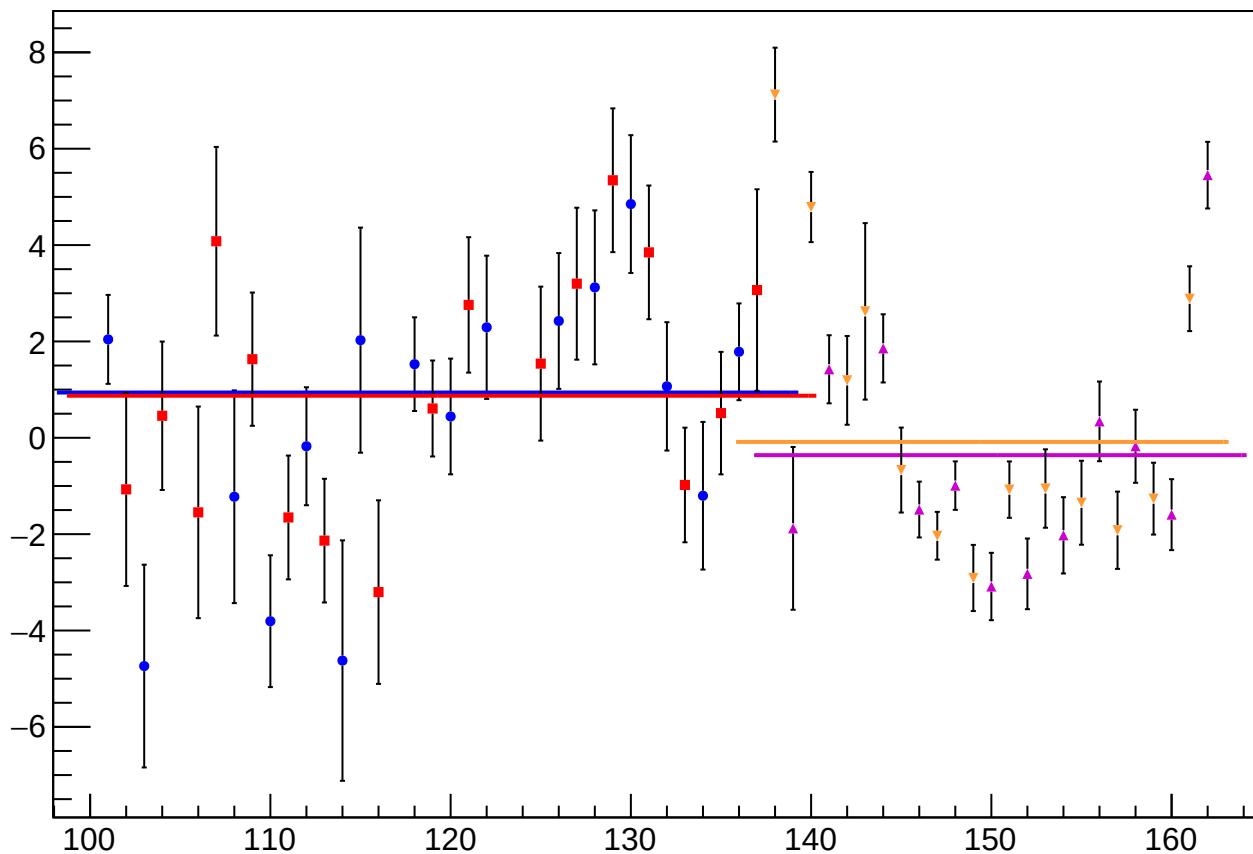
# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -7.908 $\pm$ 0.304  $\chi^2$ /NDF:422.9/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -5.864 $\pm$ 0.294  $\chi^2$ /NDF:363.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -6.851 $\pm$ 0.211  $\chi^2$ /NDF: 809.5/24  
 - 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:  $-0.086 \pm 0.208$   $\chi^2/\text{NDF}: 170.0/12$

Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$

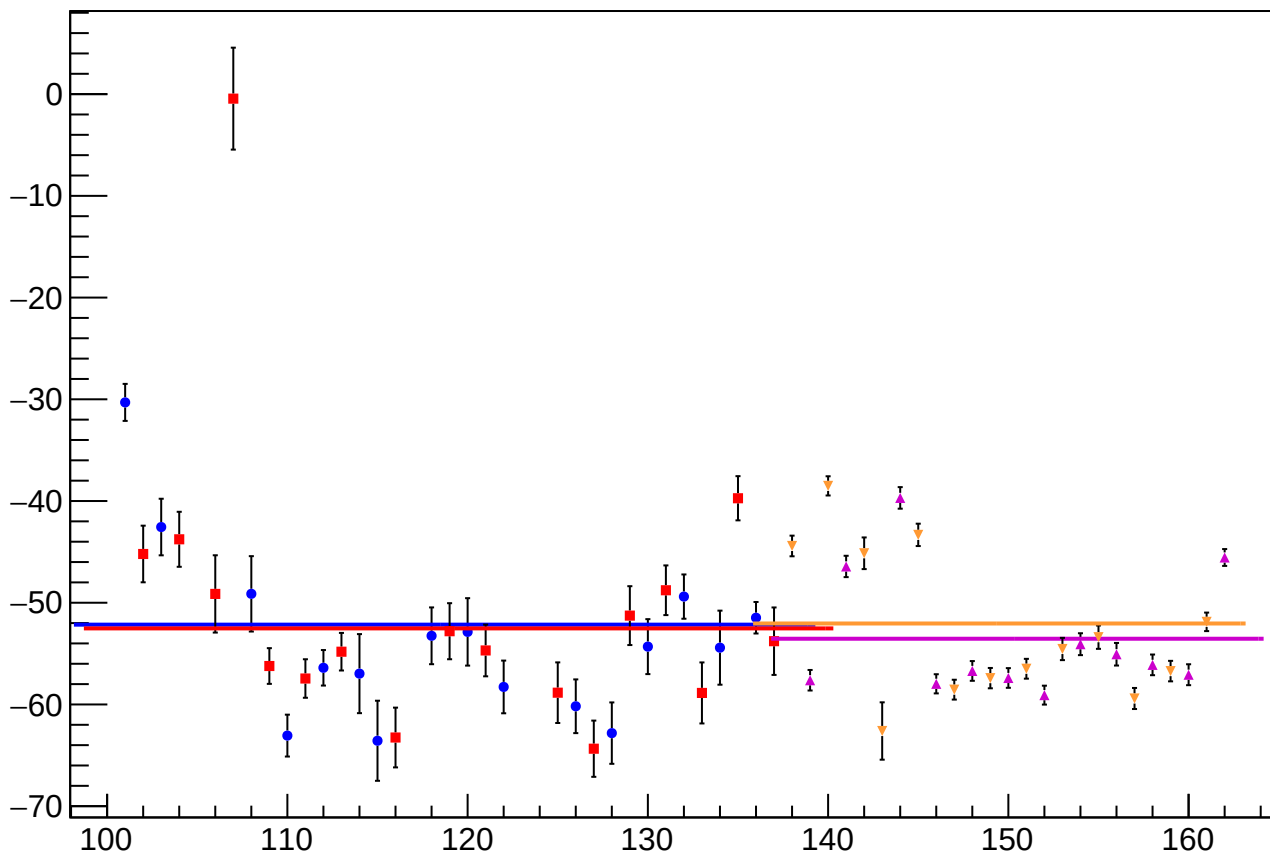
Left In:  $-0.360 \pm 0.204$   $\chi^2/\text{NDF}: 127.4/11$

+ sign  $0.194 \pm 0.177$   $\chi^2/\text{NDF}: 218.9/28$

All:  $0.072 \pm 0.125$   $\chi^2/\text{NDF}: 396.9/57$

- sign  $-0.051 \pm 0.177$   $\chi^2/\text{NDF}: 177.1/28$

# 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:  $-52.040 \pm 0.298$   $\chi^2/\text{NDF}$ : 531.3/12

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

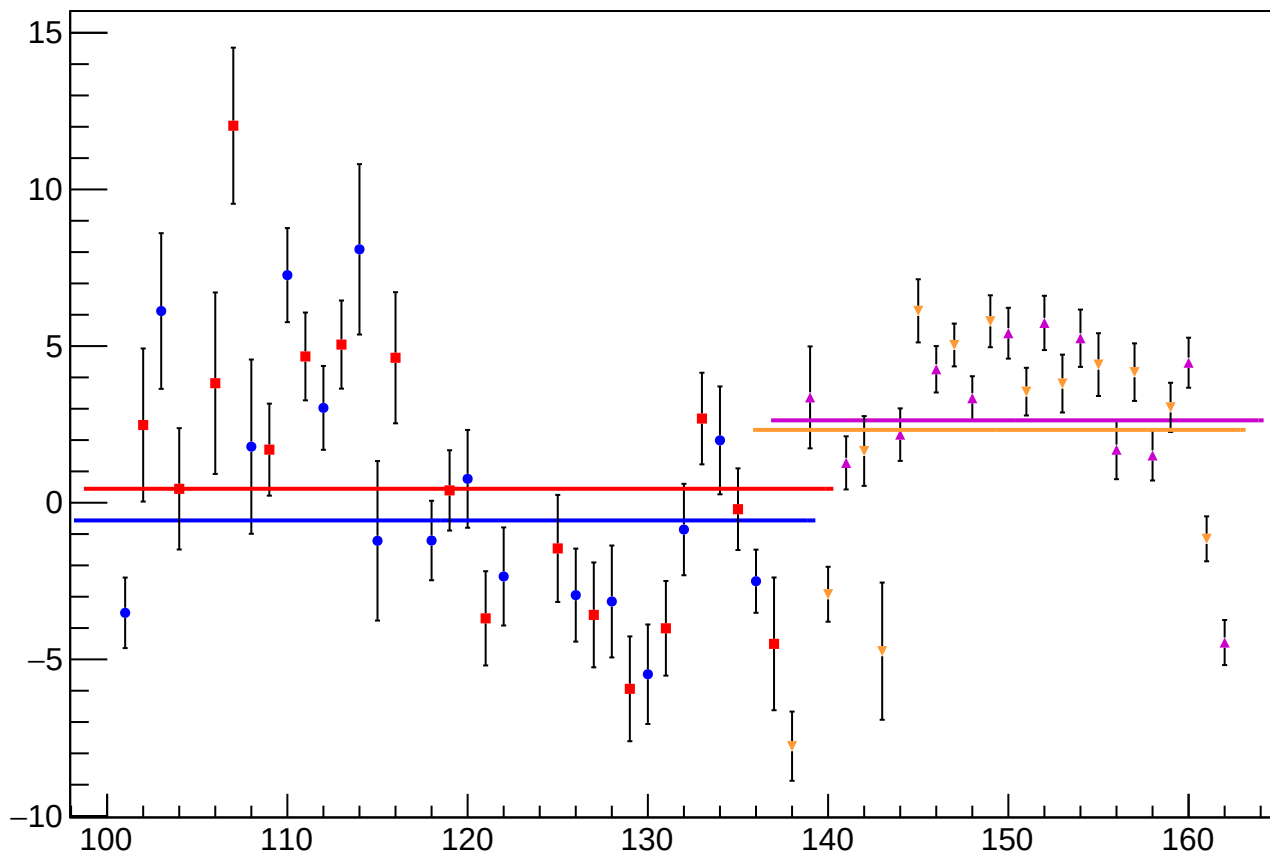
Left In:  $-53.539 \pm 0.286$   $\chi^2/\text{NDF}$ : 430.3/11

+ sign  $-52.062 \pm 0.268$   $\chi^2/\text{NDF}$ : 762.4/28

All:  $-52.732 \pm 0.186$   $\chi^2/\text{NDF}$ : 1424.8/57

- sign  $-53.360 \pm 0.259$   $\chi^2/\text{NDF}$ : 650.3/28

# 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:  $2.326 \pm 0.247$   $\chi^2/\text{NDF}$ : 215.4/12

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

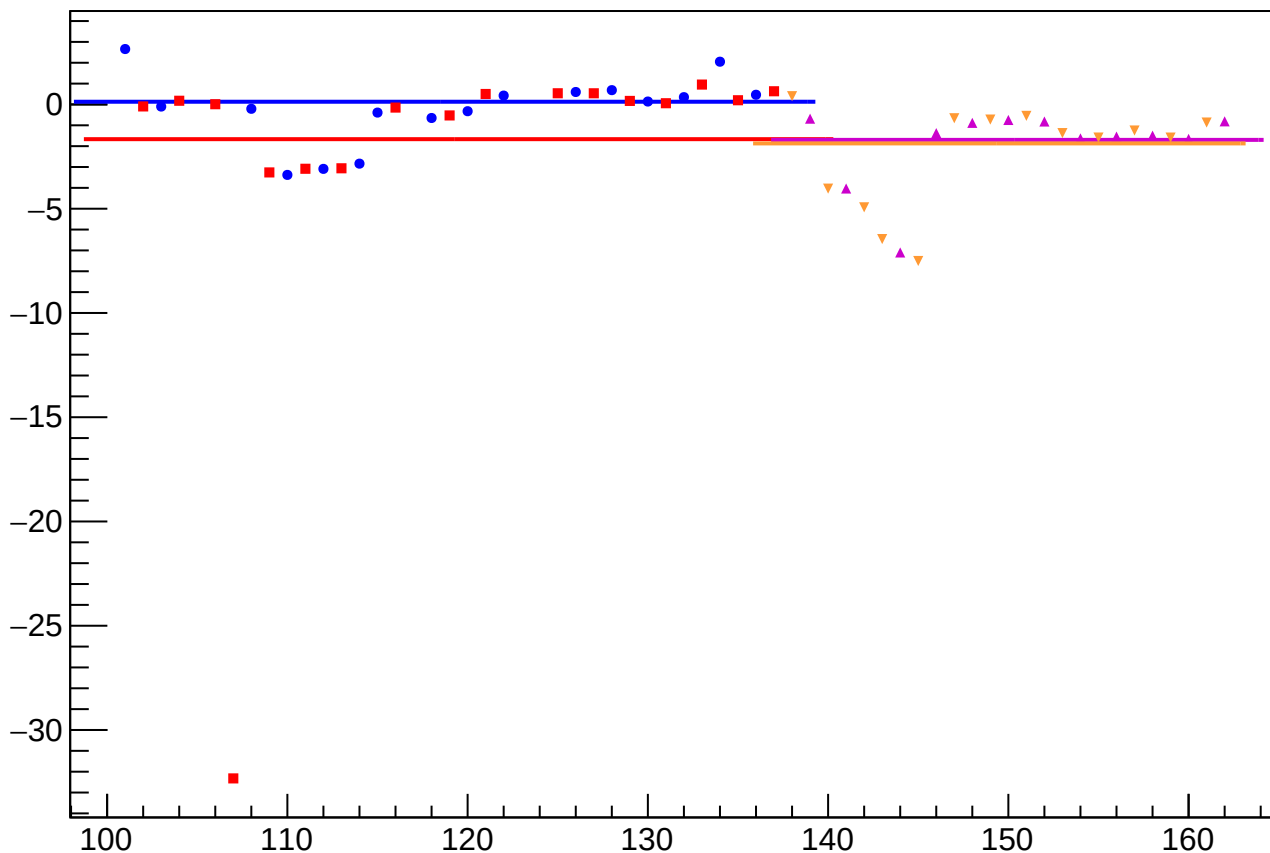
Left In:  $2.629 \pm 0.241$   $\chi^2/\text{NDF}$ : 147.3/11

+ sign  $1.480 \pm 0.208$   $\chi^2/\text{NDF}$ : 337.2/28

All:  $1.767 \pm 0.146$   $\chi^2/\text{NDF}$ : 604.3/57

- sign  $2.050 \pm 0.206$   $\chi^2/\text{NDF}$ : 263.3/28

# 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:  $-1.868 \pm 0.012$   $\chi^2/\text{NDF}: 30965.4/12$

Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}: 77602.8/16$

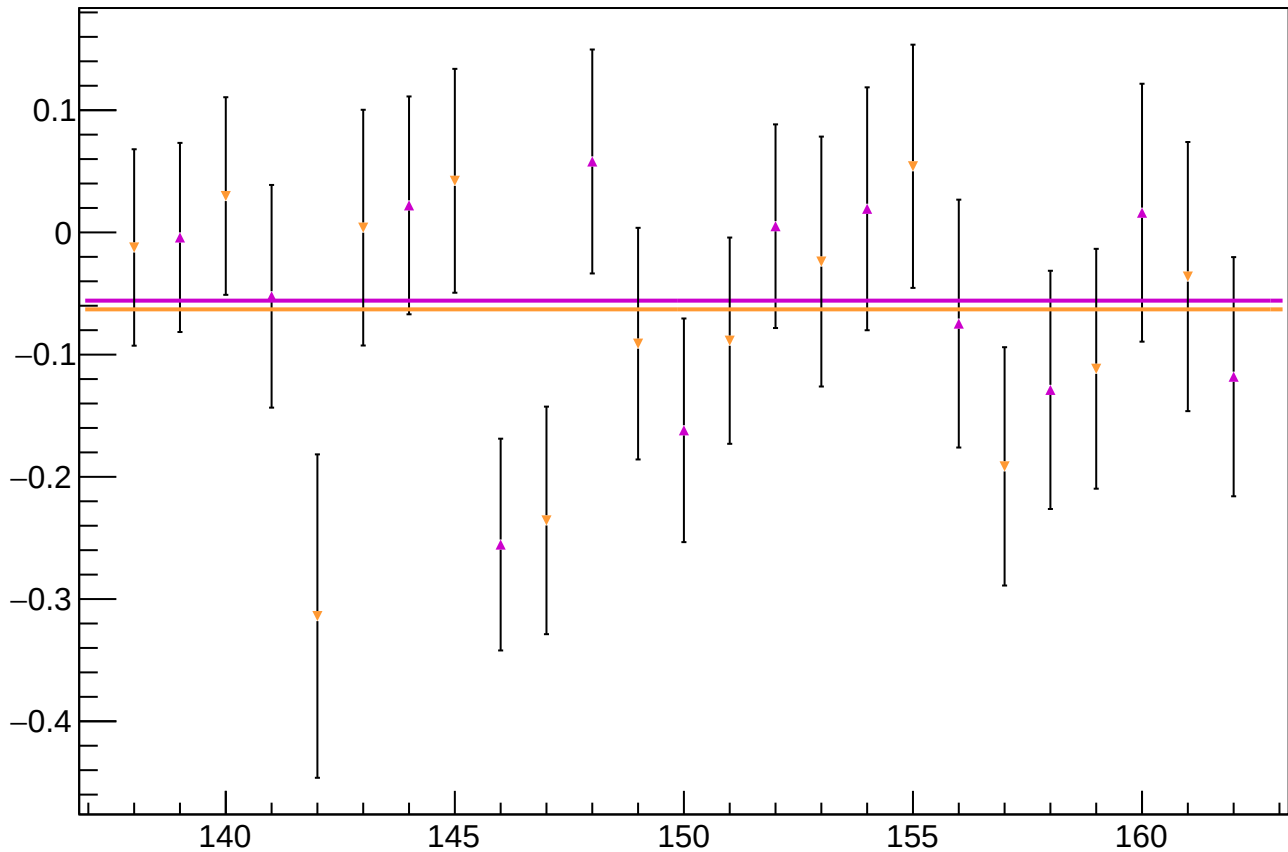
Left In:  $-1.699 \pm 0.011$   $\chi^2/\text{NDF}: 19771.0/11$

+ sign  $-1.417 \pm 0.010$   $\chi^2/\text{NDF}: 42880.1/28$

All:  $-1.559 \pm 0.007$   $\chi^2/\text{NDF}: 140627.2/57$

- sign  $-1.692 \pm 0.010$   $\chi^2/\text{NDF}: 97375.8/28$

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.063 $\pm$ 0.026  $\chi^2$ /NDF:14.3/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

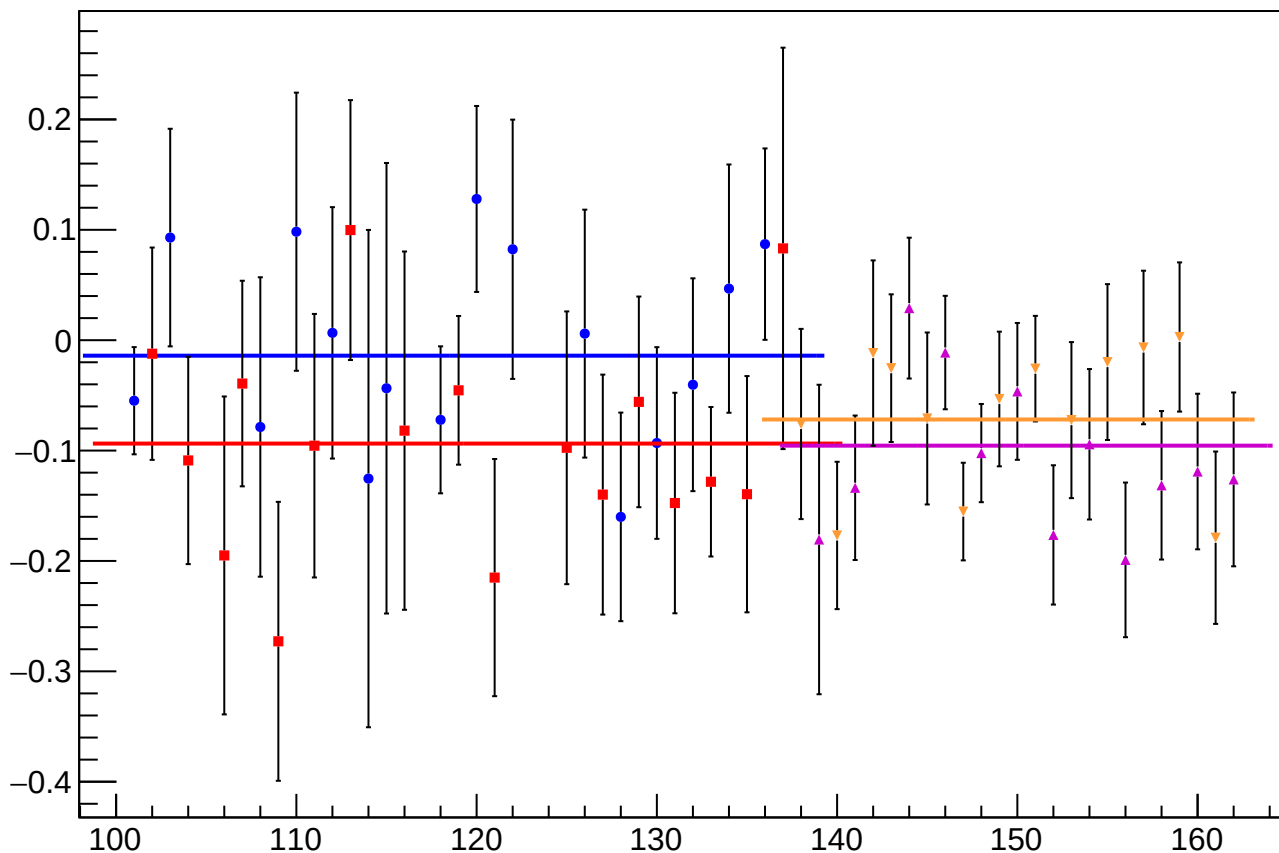
Left In: -0.056 $\pm$ 0.026  $\chi^2$ /NDF:12.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.059 $\pm$ 0.019  $\chi^2$ /NDF: 26.3/24

- 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:  $-0.072 \pm 0.018$   $\chi^2/\text{NDF}$ : 12.6/12

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}$ : 10.1/16

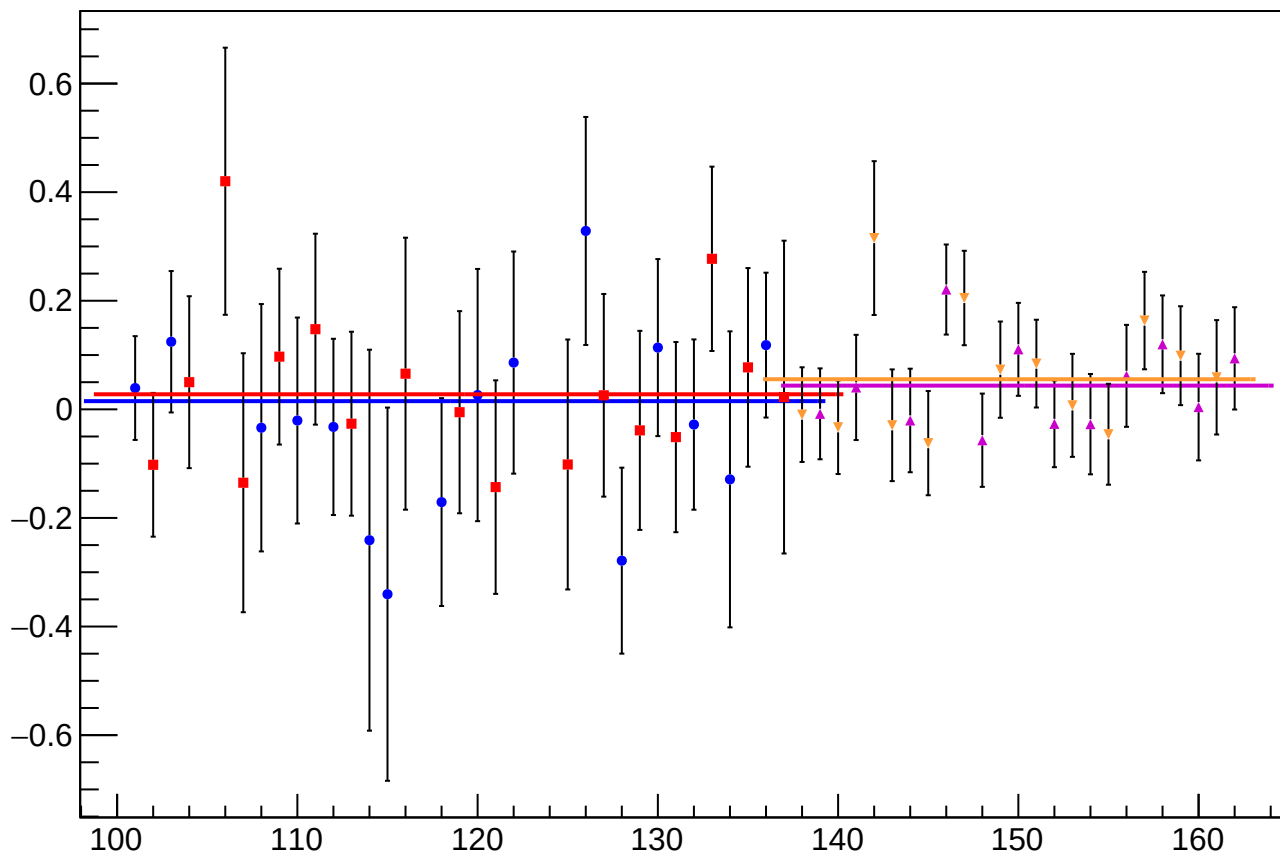
Left In:  $-0.096 \pm 0.018$   $\chi^2/\text{NDF}$ : 12.2/11

+ sign  $-0.050 \pm 0.014$   $\chi^2/\text{NDF}$ : 28.9/28

All:  $-0.072 \pm 0.010$   $\chi^2/\text{NDF}$ : 56.0/57

- sign  $-0.095 \pm 0.015$   $\chi^2/\text{NDF}$ : 22.3/28

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.015 \pm 0.043$   $\chi^2/\text{NDF}: 10.1/15$

Left Out:  $0.055 \pm 0.026$   $\chi^2/\text{NDF}: 13.4/12$

Right Out:  $0.028 \pm 0.045$   $\chi^2/\text{NDF}: 8.4/16$

Left In:  $0.044 \pm 0.026$   $\chi^2/\text{NDF}: 9.9/11$

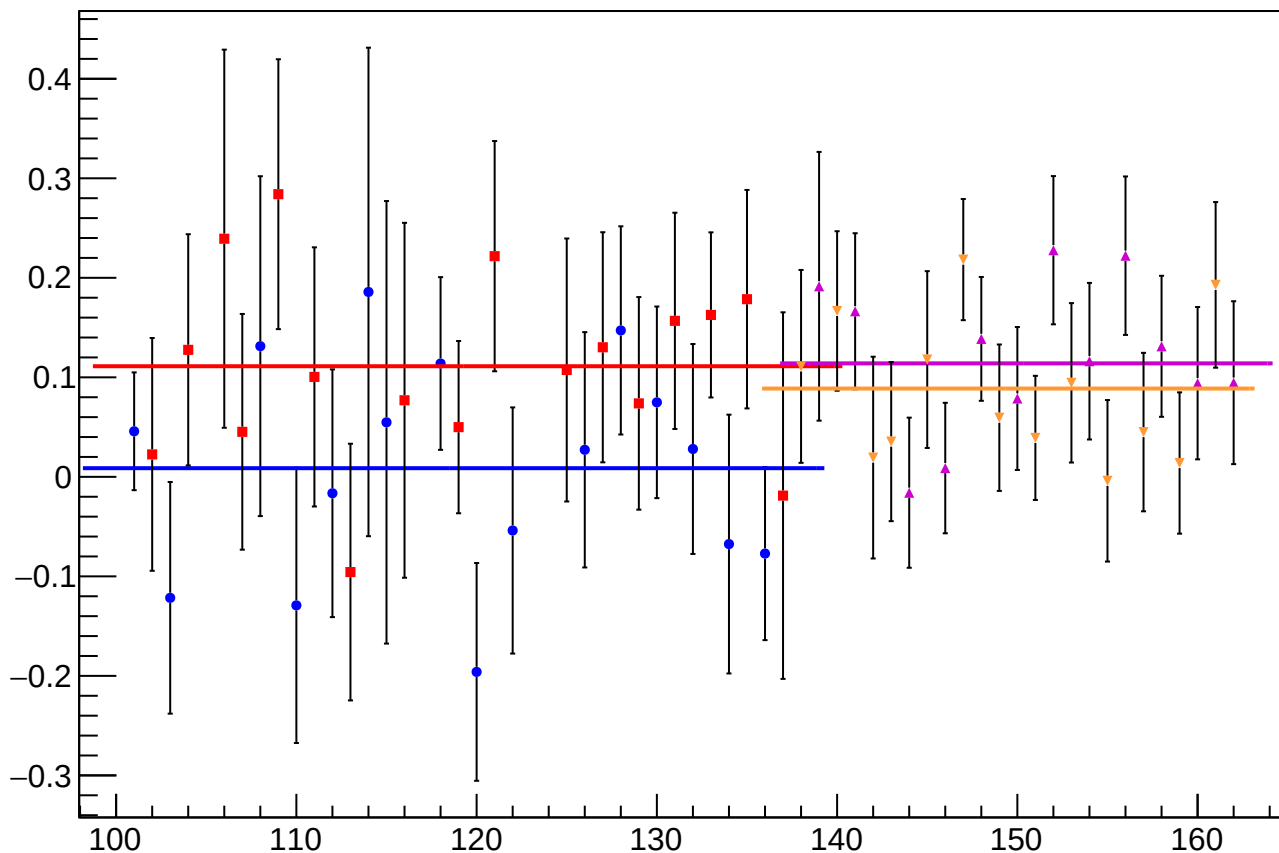
+ sign  $0.045 \pm 0.022$   $\chi^2/\text{NDF}: 24.2/28$

All:  $0.042 \pm 0.016$   $\chi^2/\text{NDF}: 42.7/57$

- sign  $0.040 \pm 0.022$   $\chi^2/\text{NDF}: 18.5/28$



# 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:  $0.089 \pm 0.022$   $\chi^2/\text{NDF}$ : 11.6/12

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.6/16

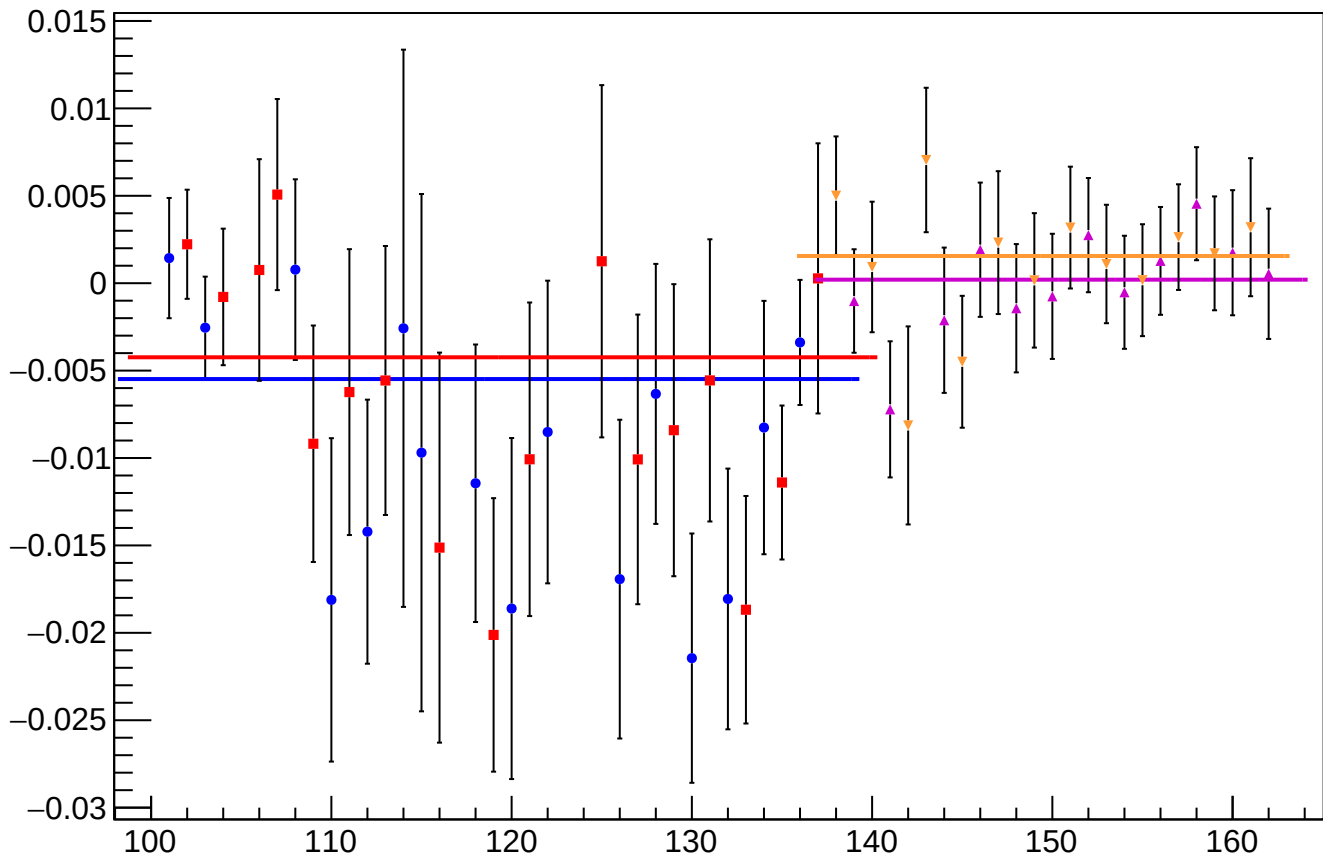
Left In:  $0.114 \pm 0.022$   $\chi^2/\text{NDF}$ : 11.1/11

+ sign  $0.058 \pm 0.017$   $\chi^2/\text{NDF}$ : 29.6/28

All:  $0.084 \pm 0.012$   $\chi^2/\text{NDF}$ : 54.6/57

- sign  $0.113 \pm 0.017$   $\chi^2/\text{NDF}$ : 19.7/28

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.005 $\pm$ 0.001  $\chi^2$ /NDF: 22.3/15

Left Out: 0.002 $\pm$ 0.001  $\chi^2$ /NDF: 9.2/12

Right Out: -0.004 $\pm$ 0.001  $\chi^2$ /NDF: 23.7/16

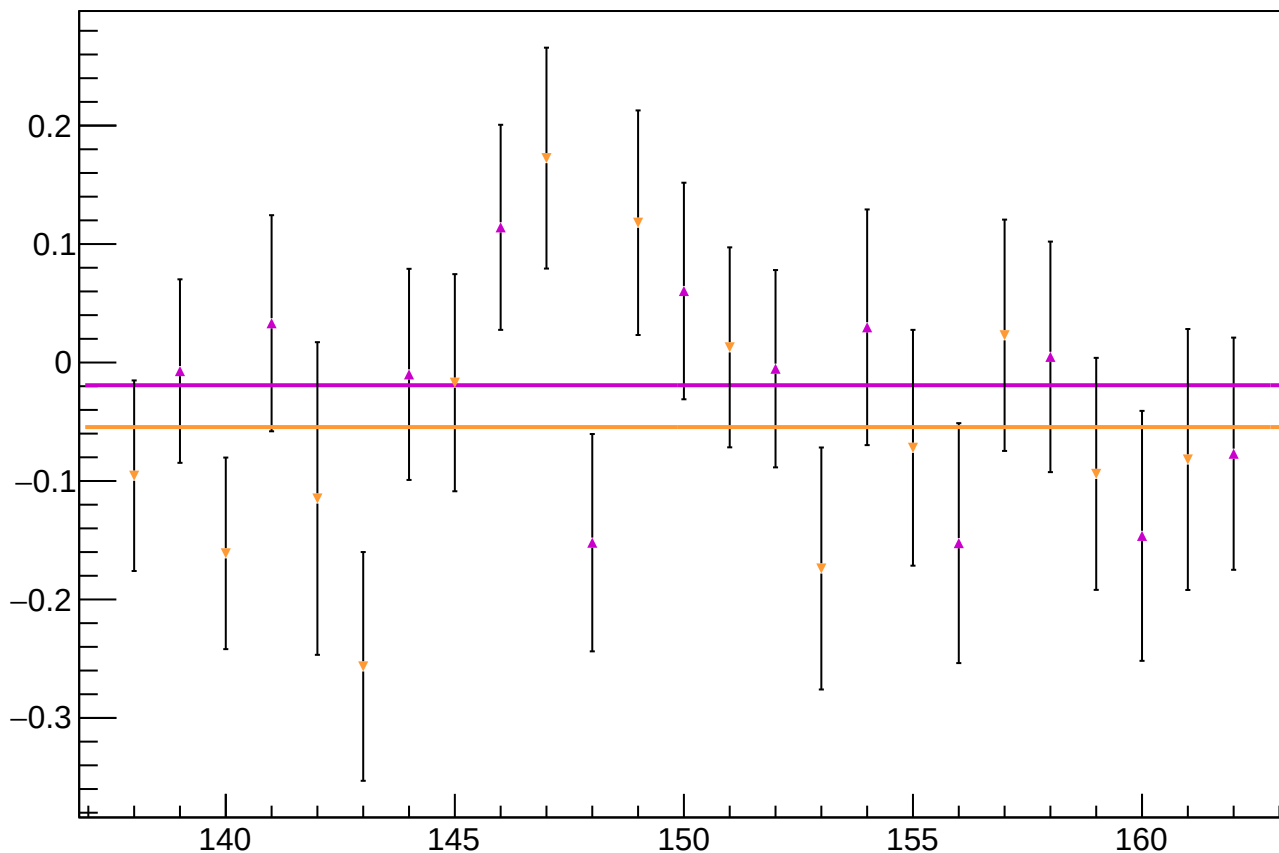
Left In: 0.000 $\pm$ 0.001  $\chi^2$ /NDF: 7.4/11

+ sign -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 47.5/28

All: -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 84.9/57

- sign -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 37.3/28

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.054 $\pm$ 0.026  $\chi^2$ /NDF: 18.9/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

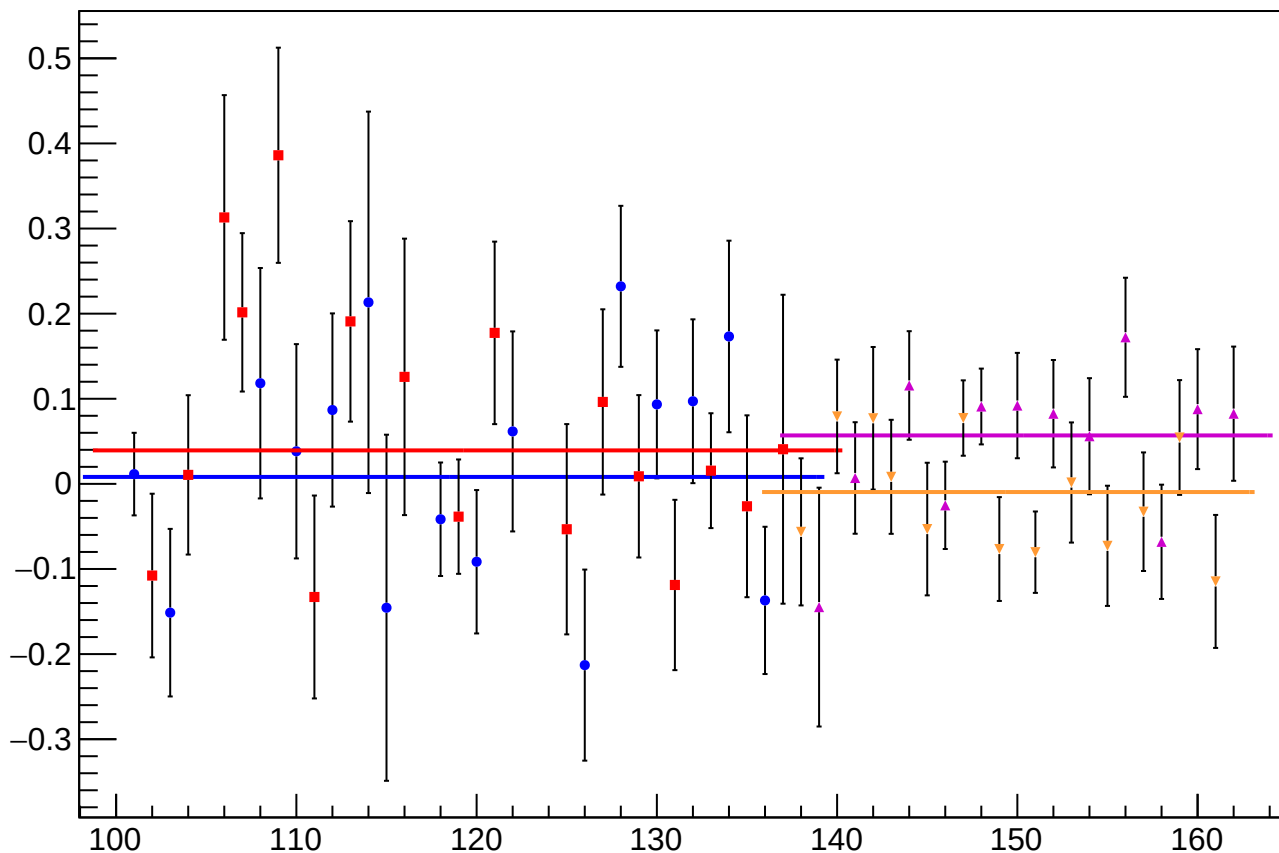
Left In: -0.019 $\pm$ 0.026  $\chi^2$ /NDF: 9.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.037 $\pm$ 0.019  $\chi^2$ /NDF: 29.2/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.008 \pm 0.023$   $\chi^2/\text{NDF}$ : 23.7/15

Left Out:  $-0.010 \pm 0.018$   $\chi^2/\text{NDF}$ : 14.4/12

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

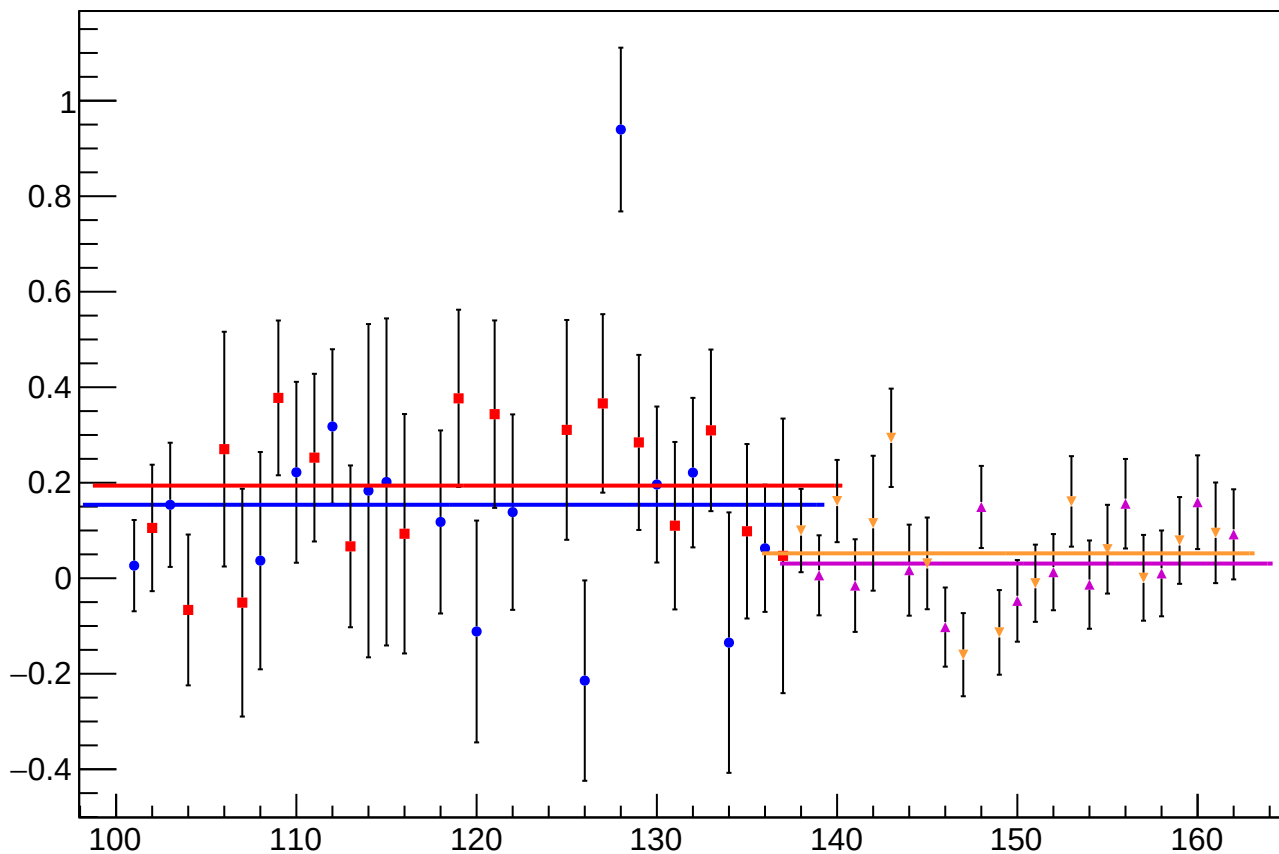
Left In:  $0.057 \pm 0.018$   $\chi^2/\text{NDF}$ : 13.6/11

+ sign  $-0.003 \pm 0.014$   $\chi^2/\text{NDF}$ : 38.4/28

All:  $0.023 \pm 0.010$   $\chi^2/\text{NDF}$ : 86.8/57

- sign  $0.051 \pm 0.015$   $\chi^2/\text{NDF}$ : 41.5/28

# 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:  $0.052 \pm 0.026$   $\chi^2/\text{NDF}$ : 19.6/12

Right Out:  $0.194 \pm 0.045$   $\chi^2/\text{NDF}$ : 10.6/16

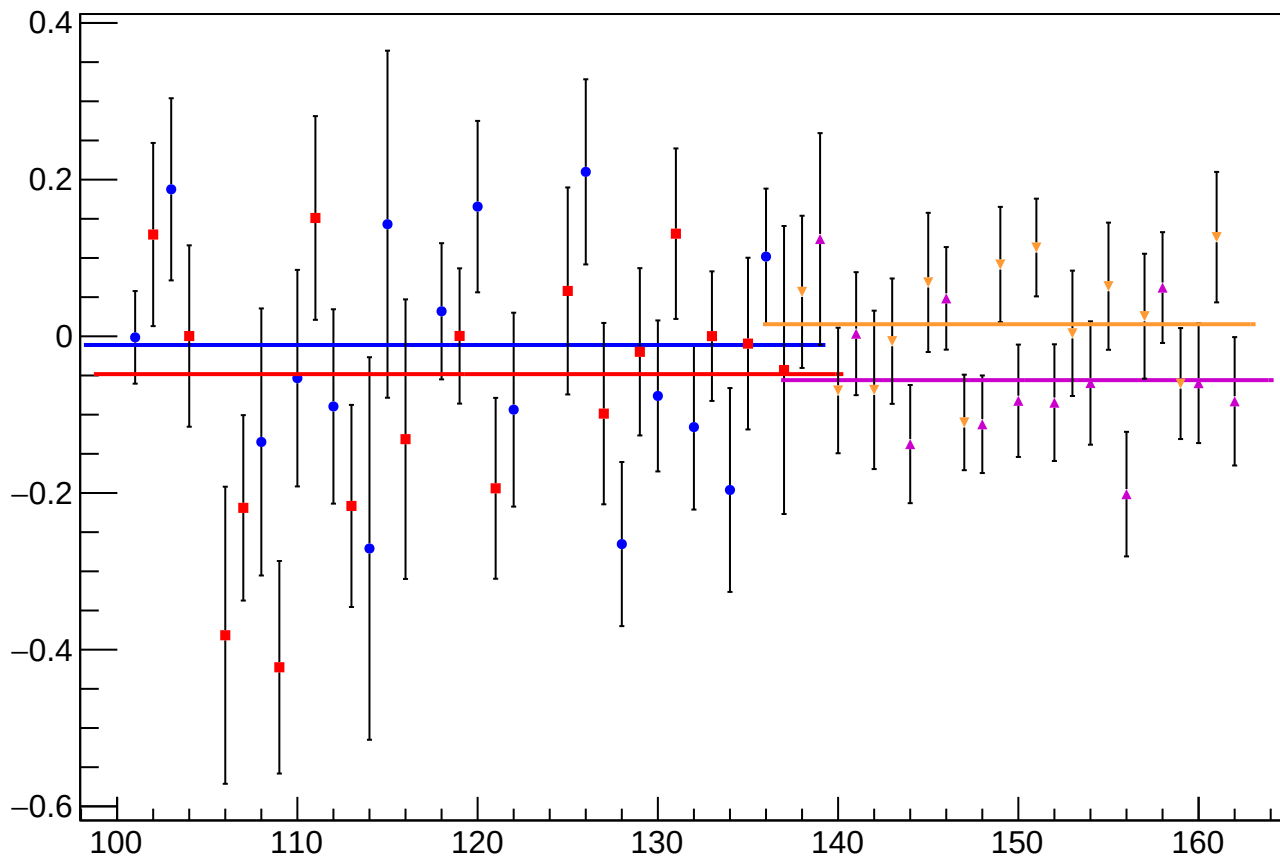
Left In:  $0.031 \pm 0.026$   $\chi^2/\text{NDF}$ : 9.9/11

+ sign  $0.079 \pm 0.022$   $\chi^2/\text{NDF}$ : 54.2/28

All:  $0.075 \pm 0.016$   $\chi^2/\text{NDF}$ : 84.7/57

- sign  $0.071 \pm 0.022$   $\chi^2/\text{NDF}$ : 30.4/28

# 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:  $0.015 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.5/12

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.6/16

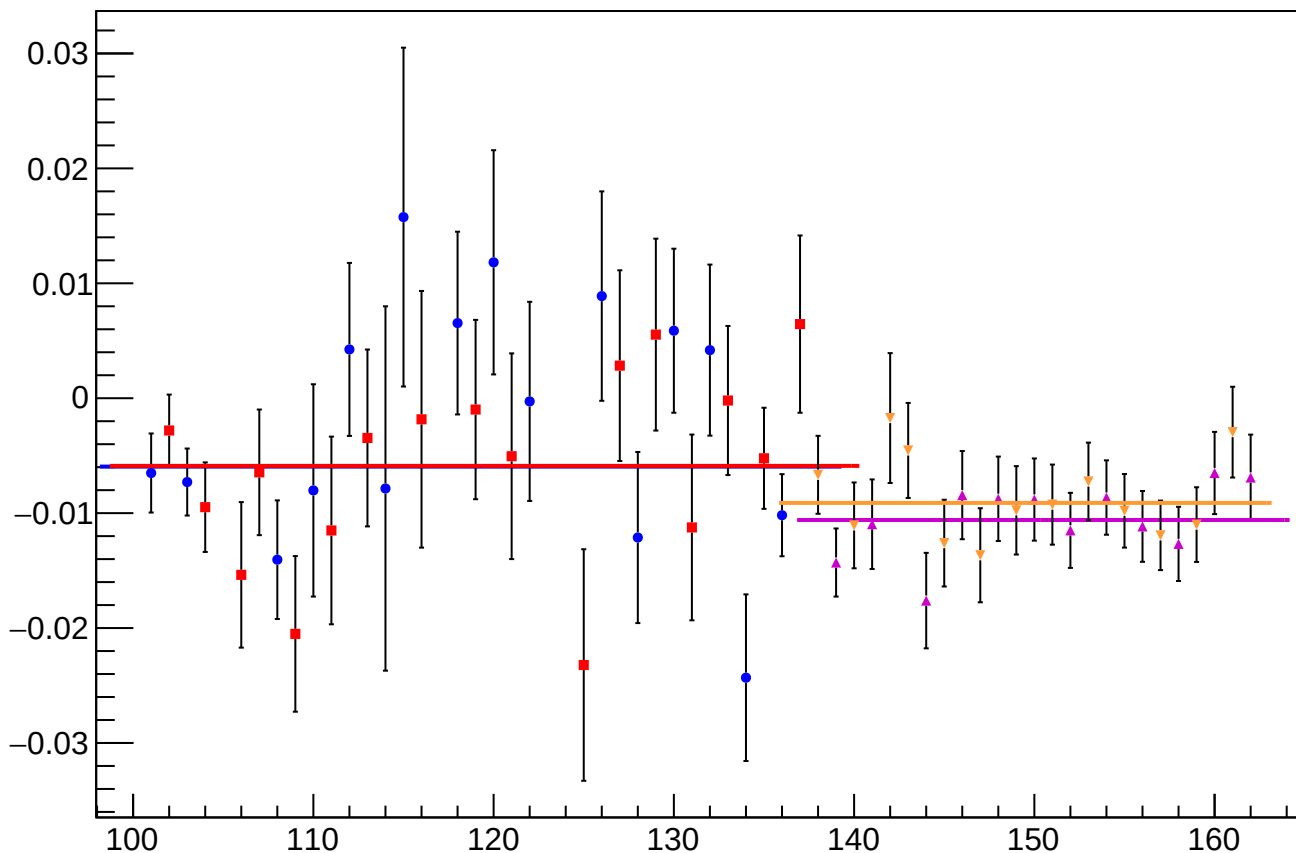
Left In:  $-0.056 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.4/11

+ sign  $0.005 \pm 0.017$   $\chi^2/\text{NDF}$ : 37.5/28

All:  $-0.023 \pm 0.012$   $\chi^2/\text{NDF}$ : 82.4/57

- sign  $-0.053 \pm 0.017$   $\chi^2/\text{NDF}$ : 39.0/28

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 28.7/15

Left Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 9.8/12

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 19.6/16

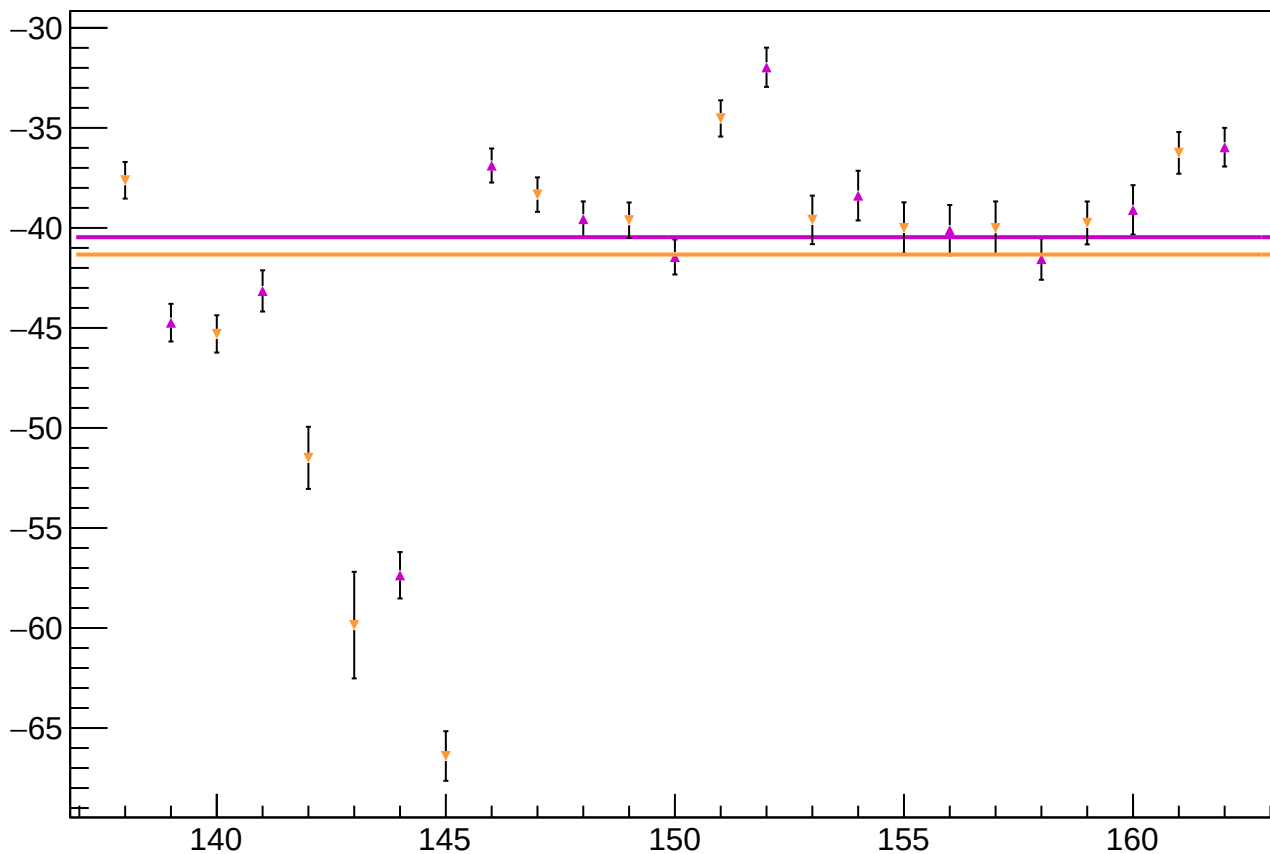
Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 8.4/11

+ sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 41.8/28

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 77.6/57

- sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 35.0/28

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.332+/-0.301  $\chi^2/\text{NDF}$ : 636.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -40.462+/-0.292  $\chi^2/\text{NDF}$ : 361.4/11

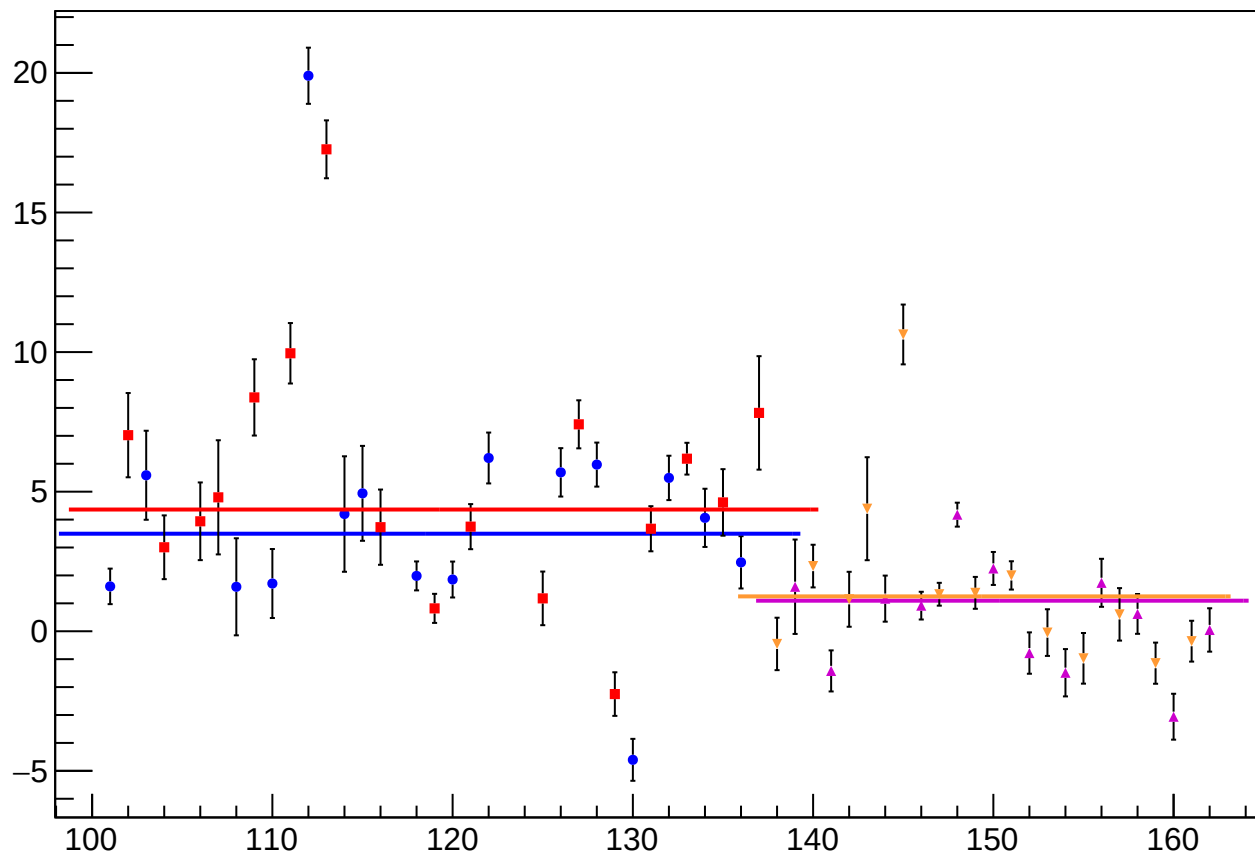
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.883+/-0.210  $\chi^2/\text{NDF}$ : 1002.6/24

- 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:  $1.249 \pm 0.198$   $\chi^2/\text{NDF}$ : 111.4/12

Right Out:  $4.360 \pm 0.225$   $\chi^2/\text{NDF}$ : 351.0/16

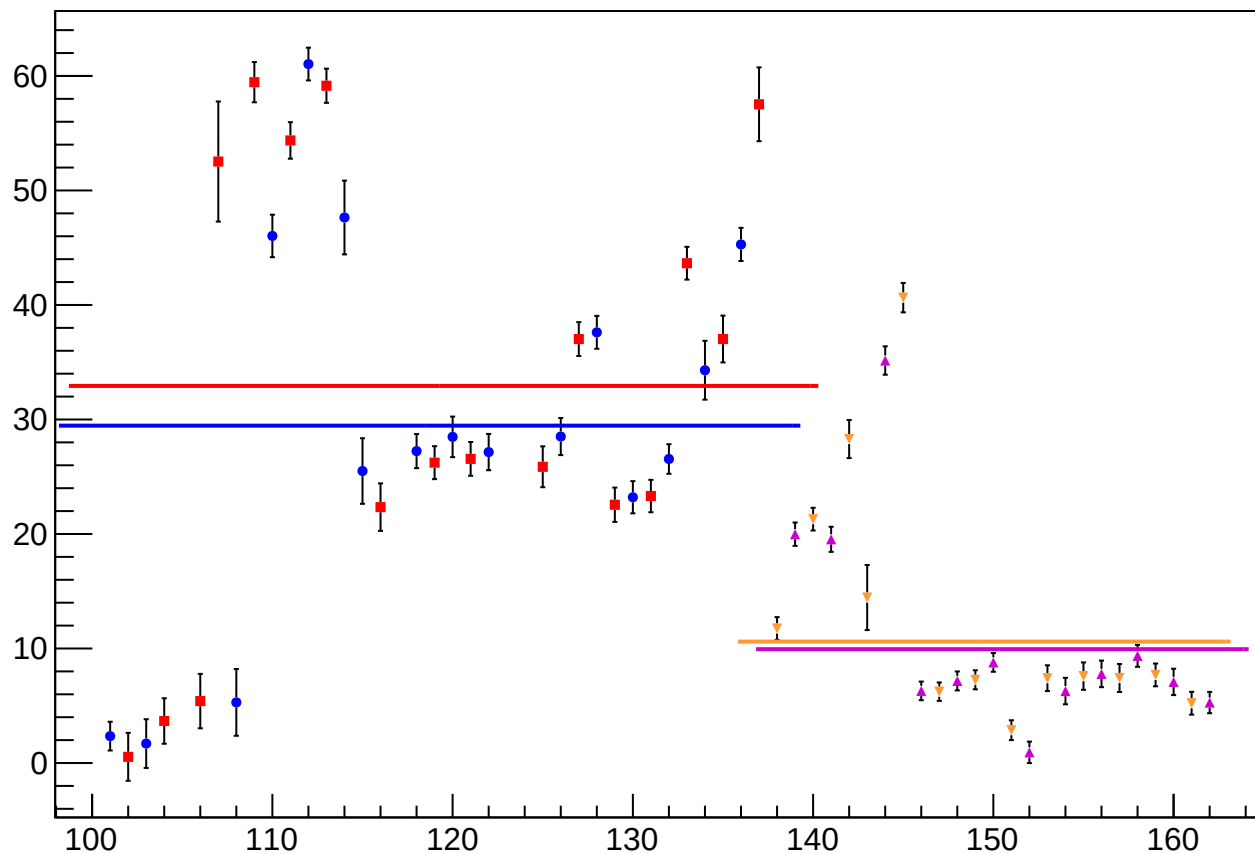
Left In:  $1.095 \pm 0.197$   $\chi^2/\text{NDF}$ : 111.4/11

+ sign  $2.266 \pm 0.147$   $\chi^2/\text{NDF}$ : 614.5/28

All:  $2.388 \pm 0.104$   $\chi^2/\text{NDF}$ : 1197.1/57

- sign  $2.512 \pm 0.148$   $\chi^2/\text{NDF}$ : 581.2/28

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $29.463 \pm 0.418$   $\chi^2/\text{NDF}: 1491.6/15$

Left Out:  $10.604 \pm 0.293$   $\chi^2/\text{NDF}: 961.9/12$

Right Out:  $32.930 \pm 0.423$   $\chi^2/\text{NDF}: 1624.4/16$

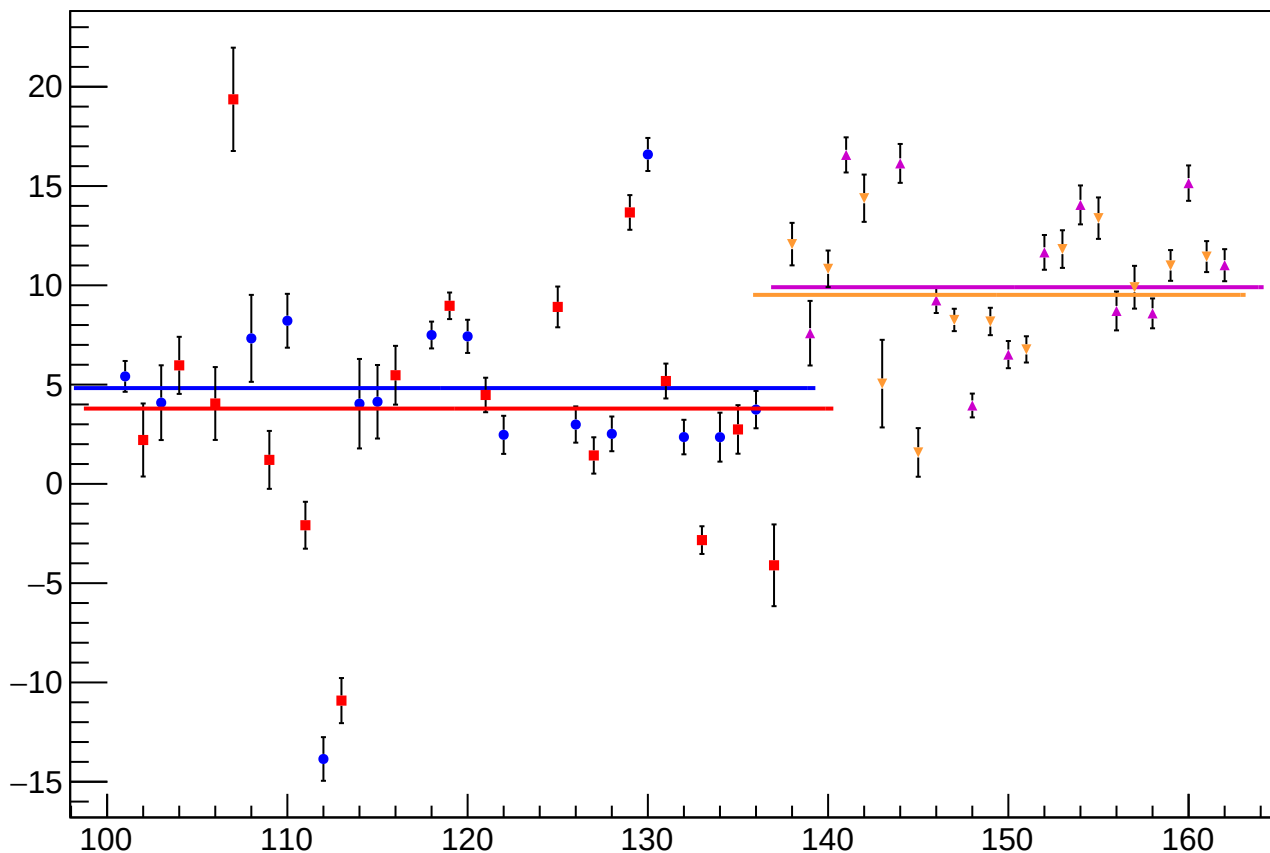
Left In:  $9.941 \pm 0.283$   $\chi^2/\text{NDF}: 756.5/11$

+ sign  $16.839 \pm 0.240$   $\chi^2/\text{NDF}: 3819.1/28$

All:  $16.932 \pm 0.168$   $\chi^2/\text{NDF}: 8239.5/57$

- sign  $17.021 \pm 0.235$   $\chi^2/\text{NDF}: 4420.1/28$

# 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:  $9.519 \pm 0.240$   $\chi^2/\text{NDF}$ : 126.1/12

Right Out:  $3.792 \pm 0.259$   $\chi^2/\text{NDF}$ : 563.6/16

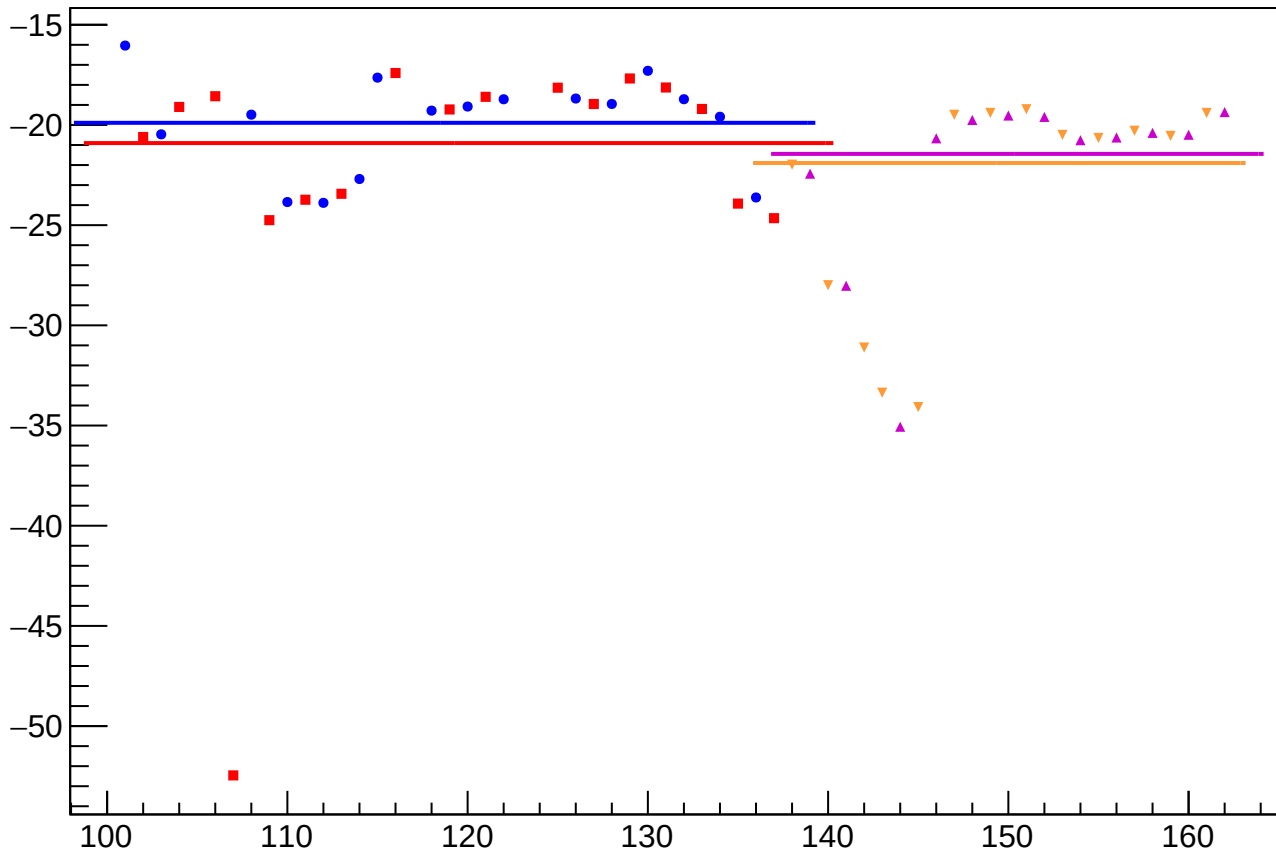
Left In:  $9.906 \pm 0.235$   $\chi^2/\text{NDF}$ : 286.6/11

+ sign  $7.284 \pm 0.174$   $\chi^2/\text{NDF}$ : 861.4/28

All:  $7.211 \pm 0.123$   $\chi^2/\text{NDF}$ : 2016.9/57

- sign  $7.139 \pm 0.174$   $\chi^2/\text{NDF}$ : 1155.2/28

# 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:  $-21.898 \pm 0.012$   $\chi^2/\text{NDF}$ : 129667.8/12

Right Out:  $-20.904 \pm 0.016$   $\chi^2/\text{NDF}$ : 92802.8/16

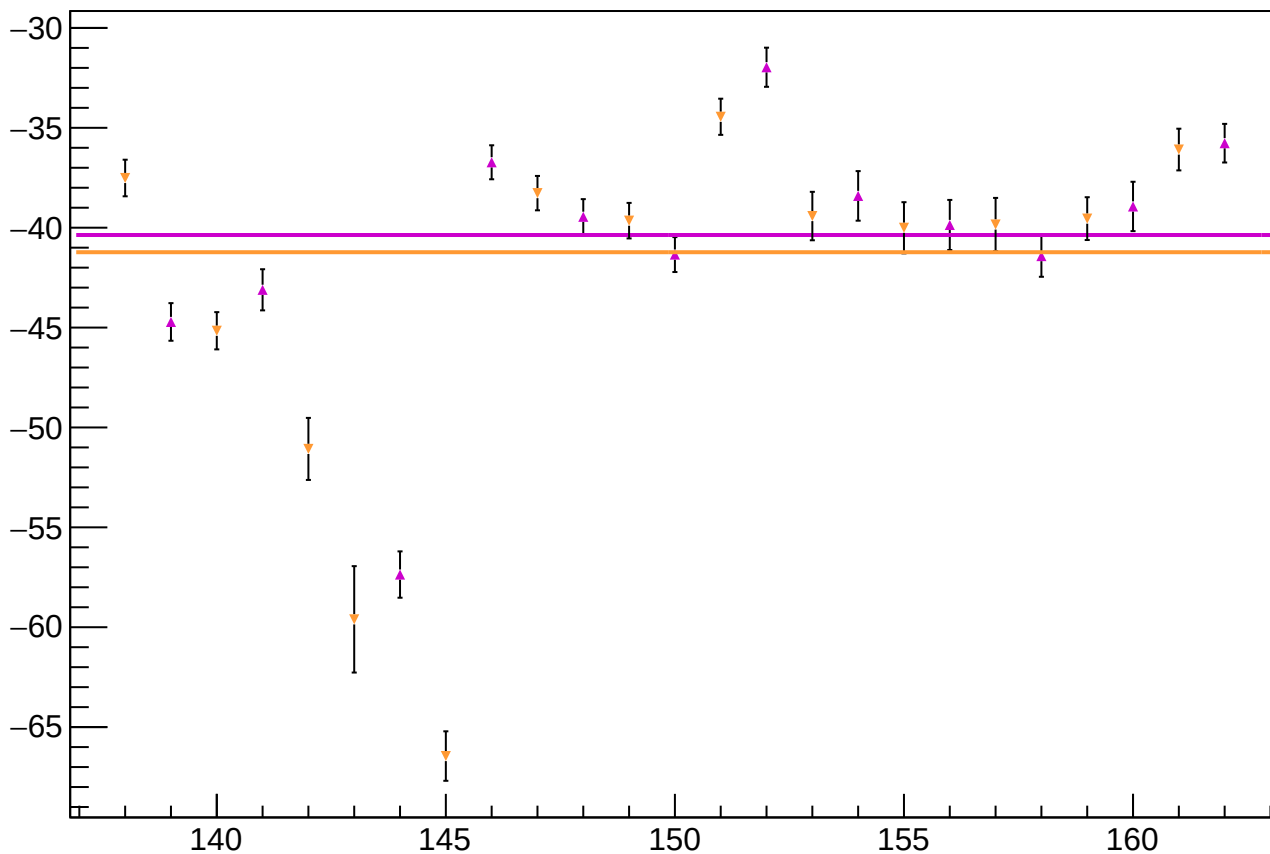
Left In:  $-21.444 \pm 0.011$   $\chi^2/\text{NDF}$ : 98912.3/11

+ sign  $-21.178 \pm 0.009$   $\chi^2/\text{NDF}$ : 166376.1/28

All:  $-21.222 \pm 0.007$   $\chi^2/\text{NDF}$ : 358920.5/57

- sign  $-21.264 \pm 0.009$   $\chi^2/\text{NDF}$ : 192500.9/28

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.227+/-0.301  $\chi^2/\text{NDF}$ : 638.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

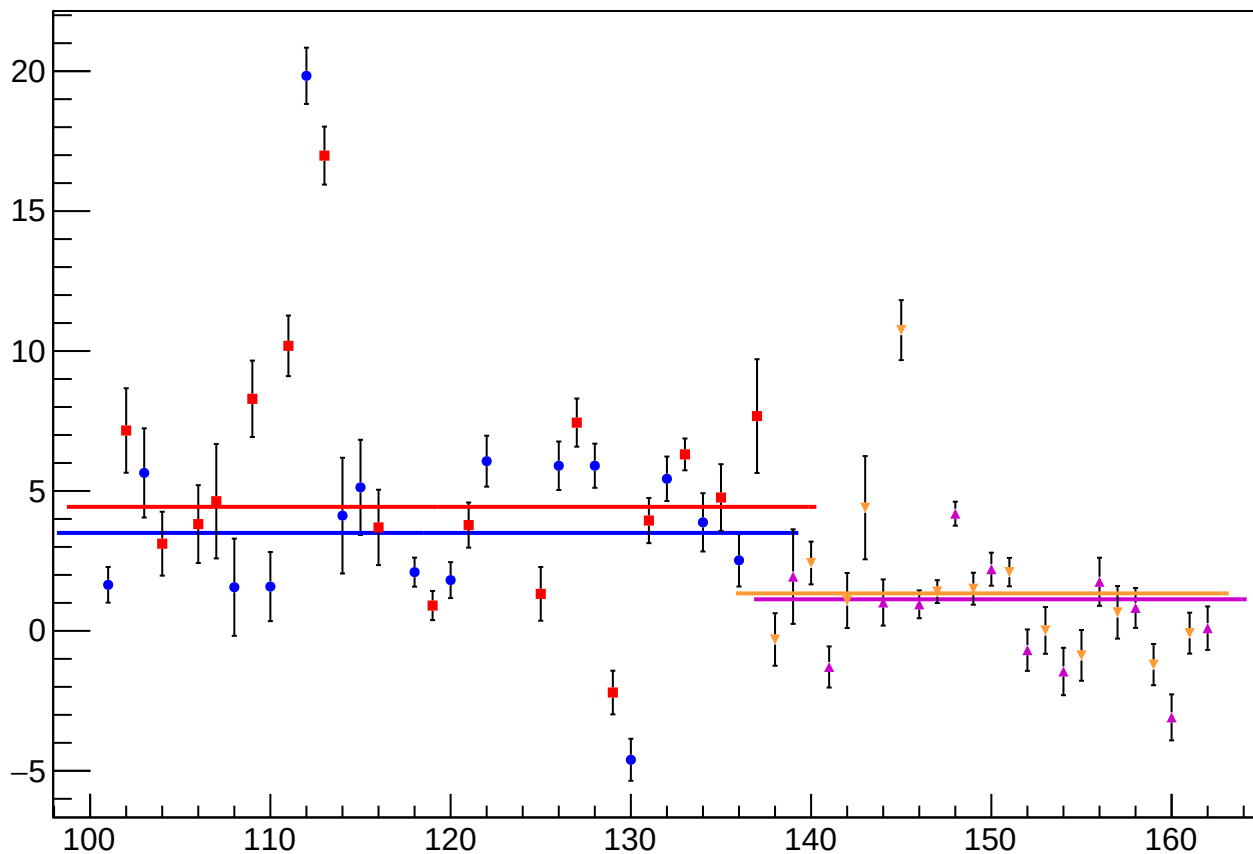
Left In: -40.366+/-0.291  $\chi^2/\text{NDF}$ : 365.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.782+/-0.209  $\chi^2/\text{NDF}$ : 1007.9/24

- 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:  $1.340 \pm 0.198$   $\chi^2/\text{NDF}$ : 112.2/12

Right Out:  $4.432 \pm 0.225$   $\chi^2/\text{NDF}$ : 343.6/16

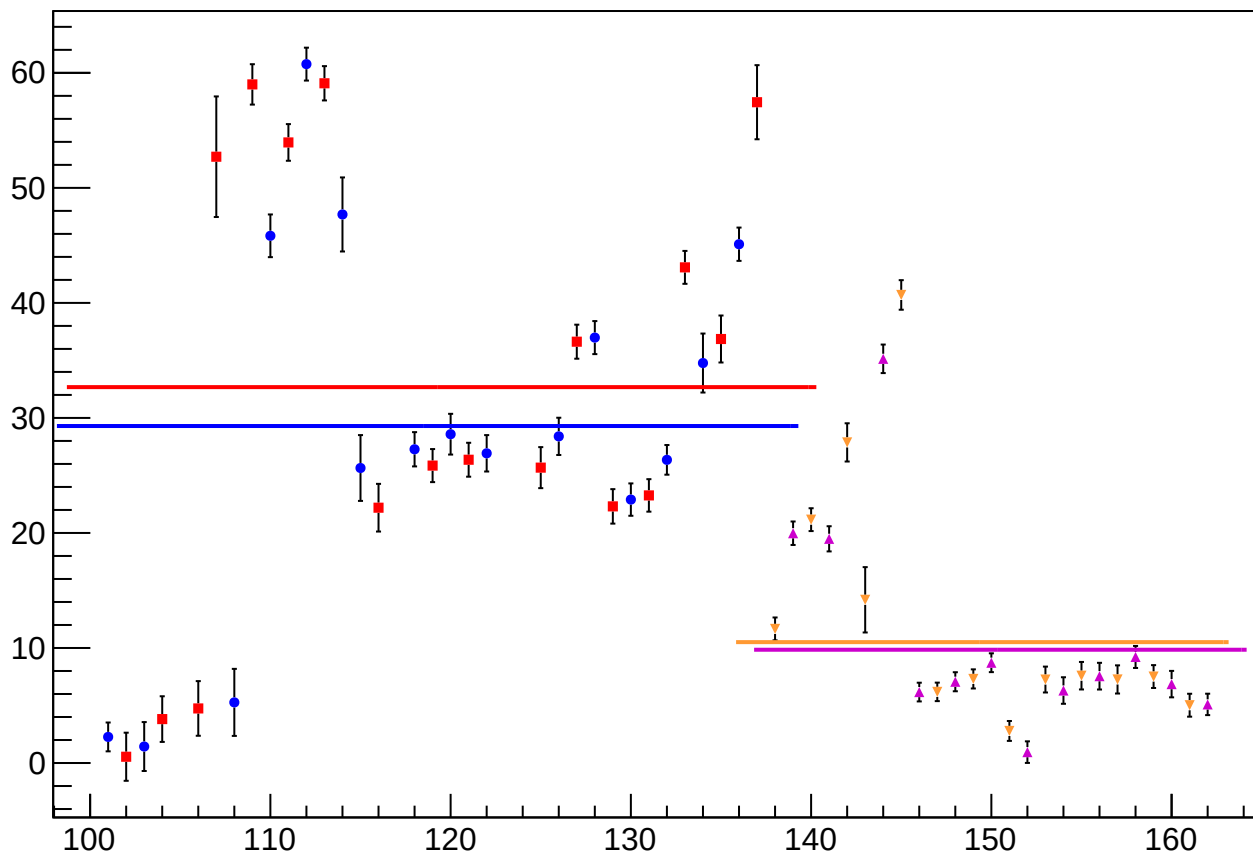
Left In:  $1.129 \pm 0.197$   $\chi^2/\text{NDF}$ : 109.6/11

+ sign  $2.319 \pm 0.146$   $\chi^2/\text{NDF}$ : 608.1/28

All:  $2.439 \pm 0.104$   $\chi^2/\text{NDF}$ : 1184.4/57

- sign  $2.563 \pm 0.148$   $\chi^2/\text{NDF}$ : 574.9/28

# 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:  $10.509 \pm 0.293$   $\chi^2/\text{NDF}: 962.7/12$

Right Out:  $32.679 \pm 0.423$   $\chi^2/\text{NDF}: 1614.8/16$

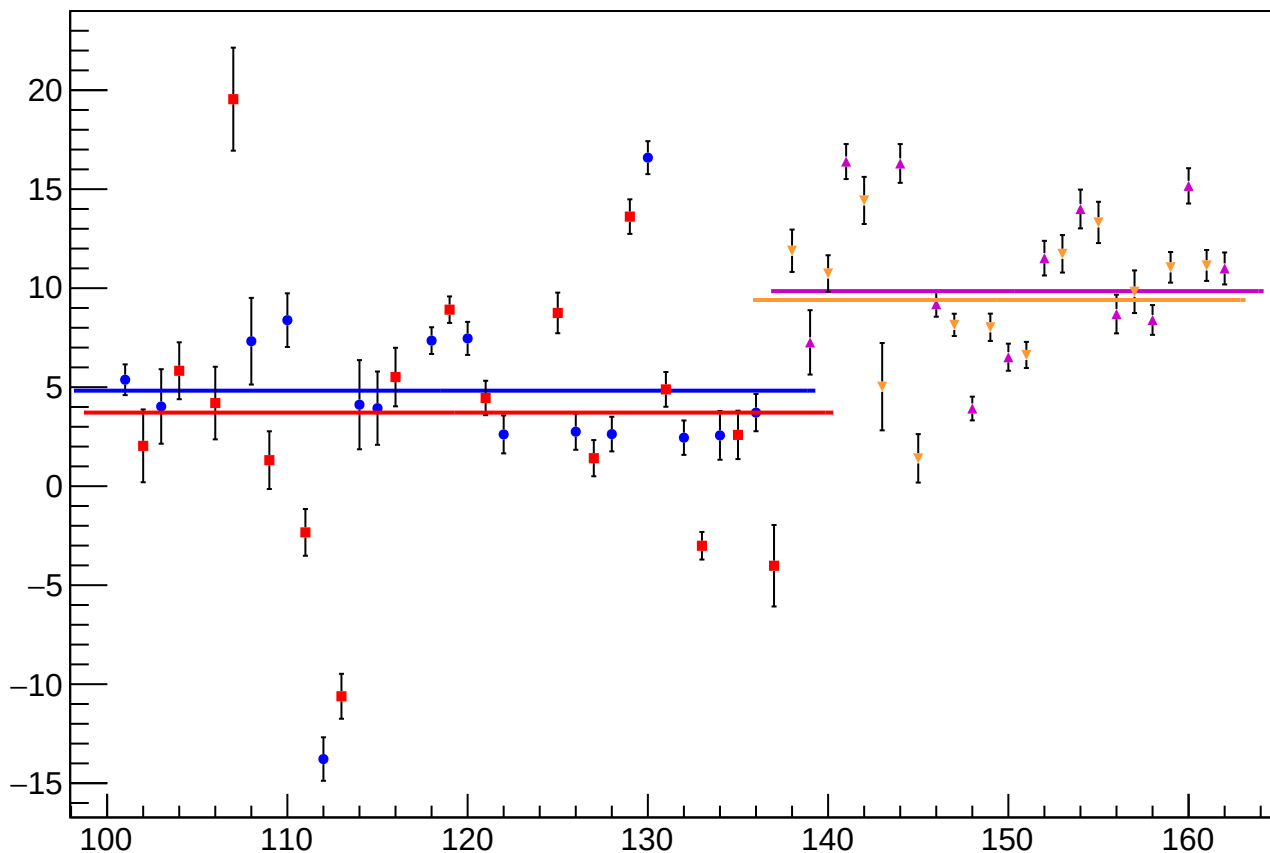
Left In:  $9.847 \pm 0.282$   $\chi^2/\text{NDF}: 762.3/11$

+ sign  $16.722 \pm 0.240$   $\chi^2/\text{NDF}: 3805.0/28$

All:  $16.802 \pm 0.168$   $\chi^2/\text{NDF}: 8196.4/57$

- sign  $16.880 \pm 0.235$   $\chi^2/\text{NDF}: 4391.2/28$

# 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:  $9.404 \pm 0.240$   $\chi^2/\text{NDF}$ : 128.5/12

Right Out:  $3.716 \pm 0.259$   $\chi^2/\text{NDF}$ : 559.9/16

Left In:  $9.852 \pm 0.235$   $\chi^2/\text{NDF}$ : 287.8/11

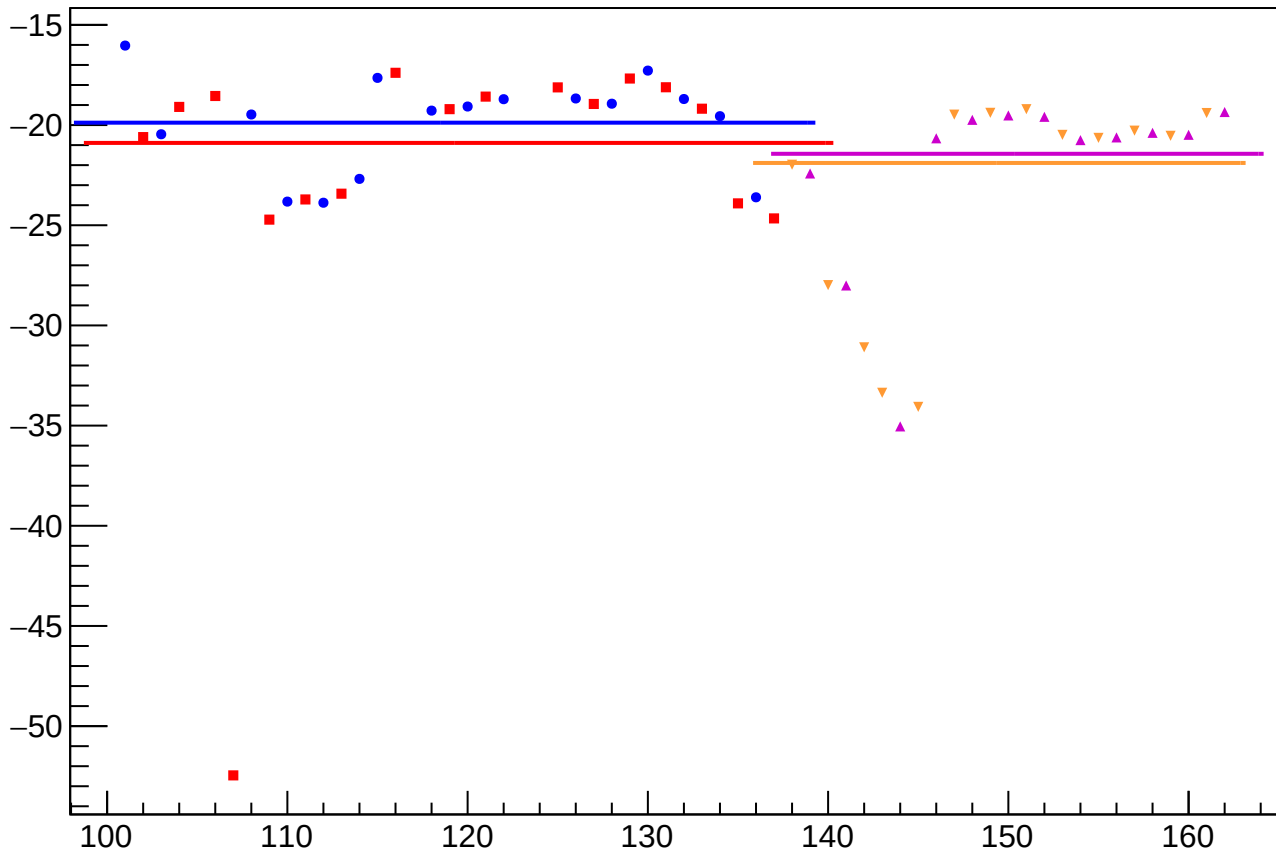
+ sign  $7.223 \pm 0.174$   $\chi^2/\text{NDF}$ : 851.5/28

All:  $7.149 \pm 0.123$   $\chi^2/\text{NDF}$ : 2007.3/57

- sign  $7.074 \pm 0.174$   $\chi^2/\text{NDF}$ : 1155.4/28



# 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:  $-21.891 \pm 0.012$   $\chi^2/\text{NDF}: 129739.6/12$

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}: 92913.6/16$

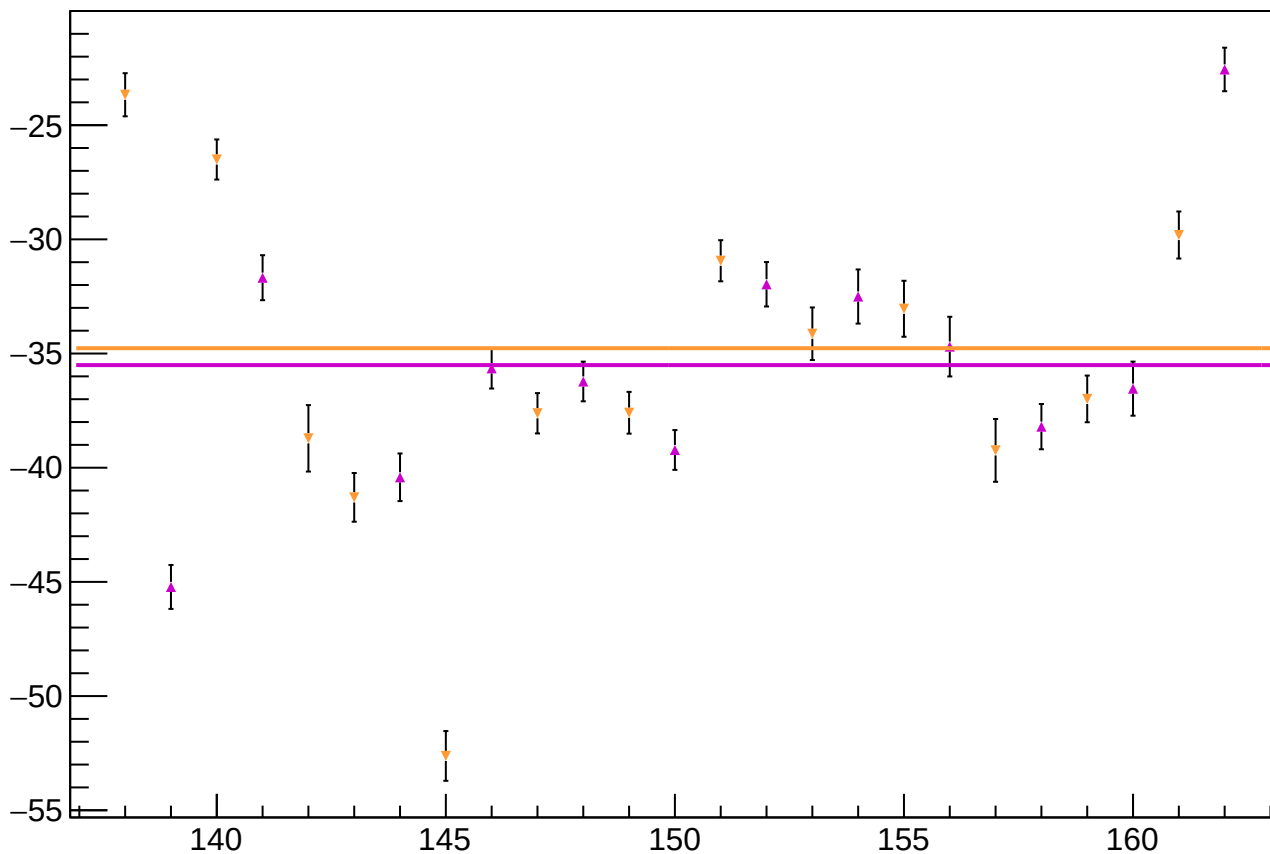
Left In:  $-21.434 \pm 0.011$   $\chi^2/\text{NDF}: 98842.7/11$

+ sign  $-21.169 \pm 0.009$   $\chi^2/\text{NDF}: 166496.0/28$

All:  $-21.212 \pm 0.007$   $\chi^2/\text{NDF}: 359090.2/57$

- sign  $-21.253 \pm 0.009$   $\chi^2/\text{NDF}: 192552.3/28$

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -34.767 $\pm$ 0.287  $\chi^2$ /NDF:619.0/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

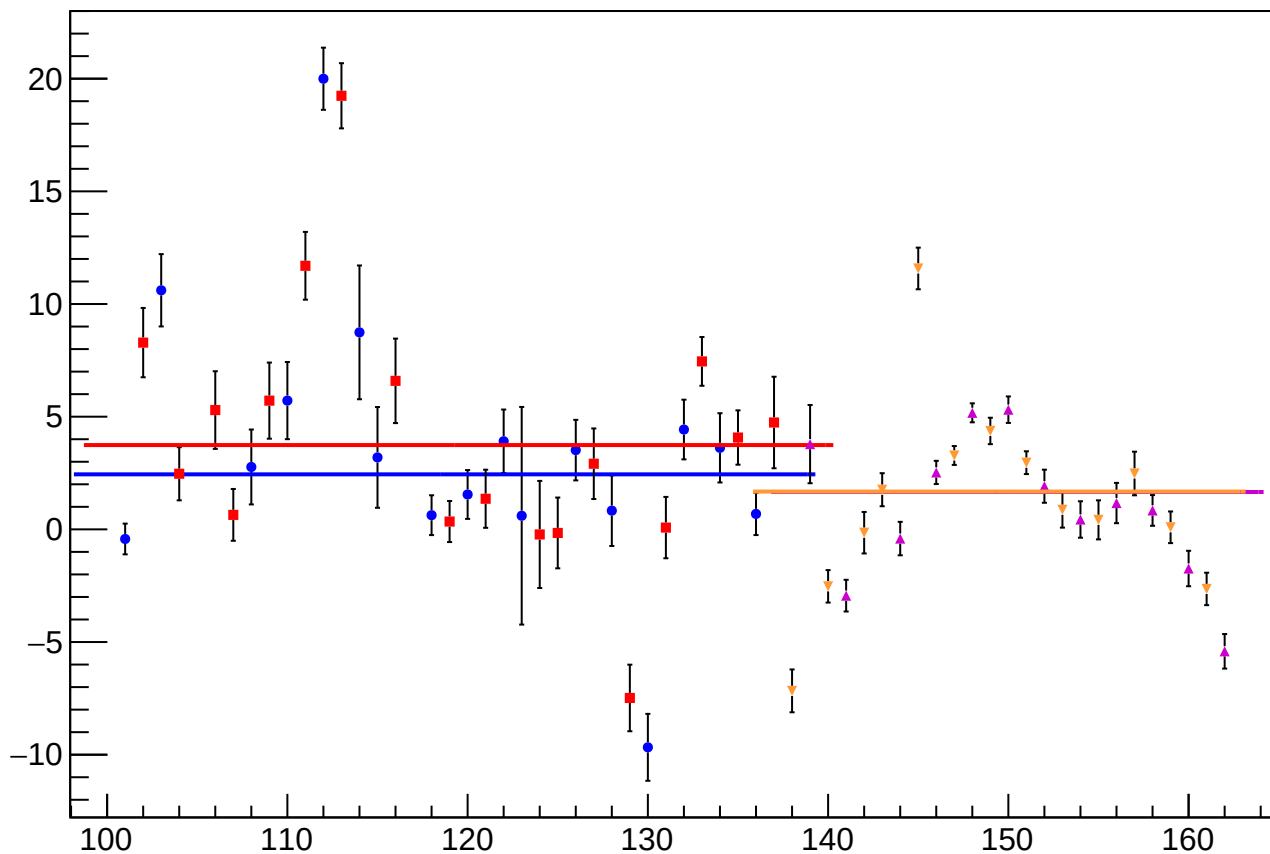
Left In: -35.507 $\pm$ 0.287  $\chi^2$ /NDF:370.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.136 $\pm$ 0.203  $\chi^2$ /NDF: 993.2/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.441 \pm 0.311$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $1.678 \pm 0.190$   $\chi^2/\text{NDF}$ : 326.4/12

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.1/17

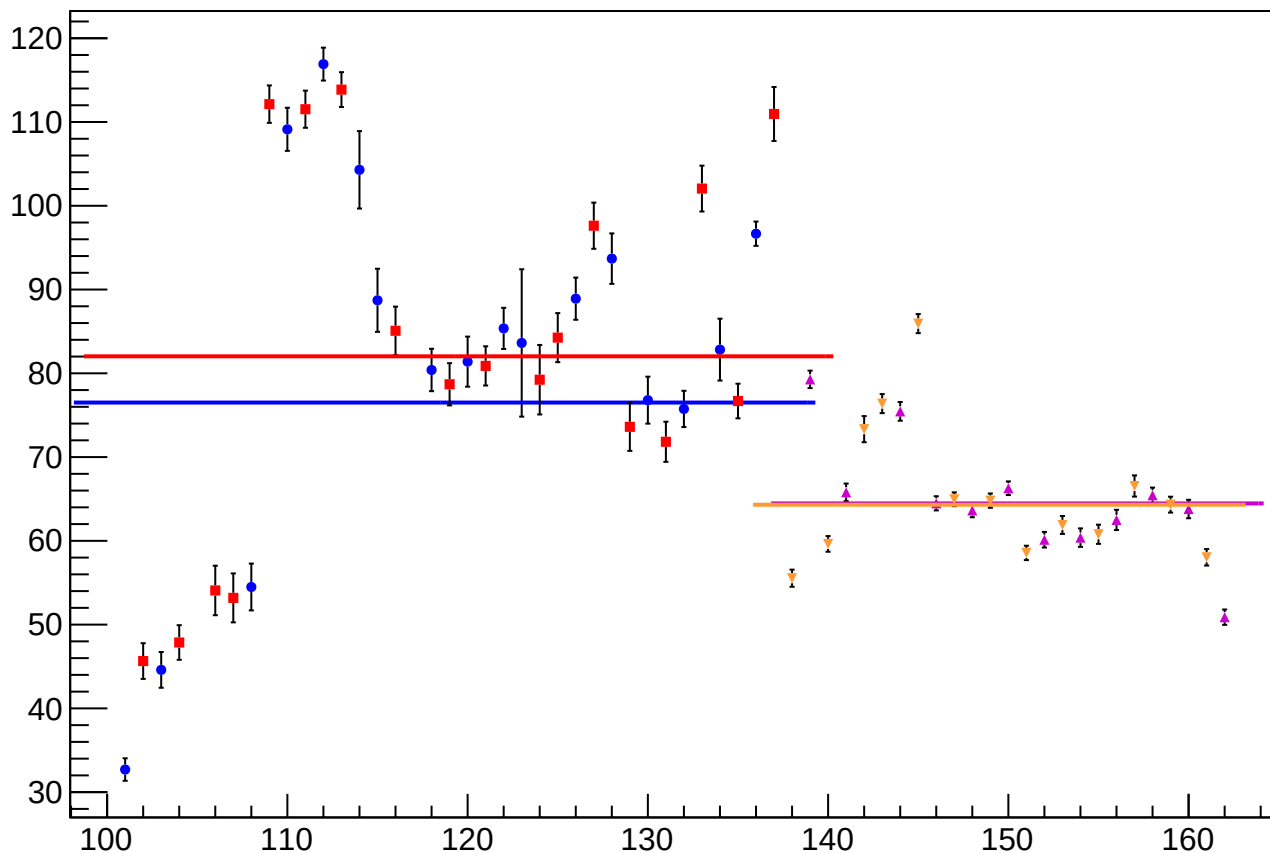
Left In:  $1.658 \pm 0.194$   $\chi^2/\text{NDF}$ : 270.9/11

+ sign  $1.885 \pm 0.162$   $\chi^2/\text{NDF}$ : 625.5/29

All:  $2.039 \pm 0.116$   $\chi^2/\text{NDF}$ : 1196.4/59

- sign  $2.201 \pm 0.167$   $\chi^2/\text{NDF}$ : 569.1/29

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 64.311 $\pm$ 0.281  $\chi^2$ /NDF: 710.3/12

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

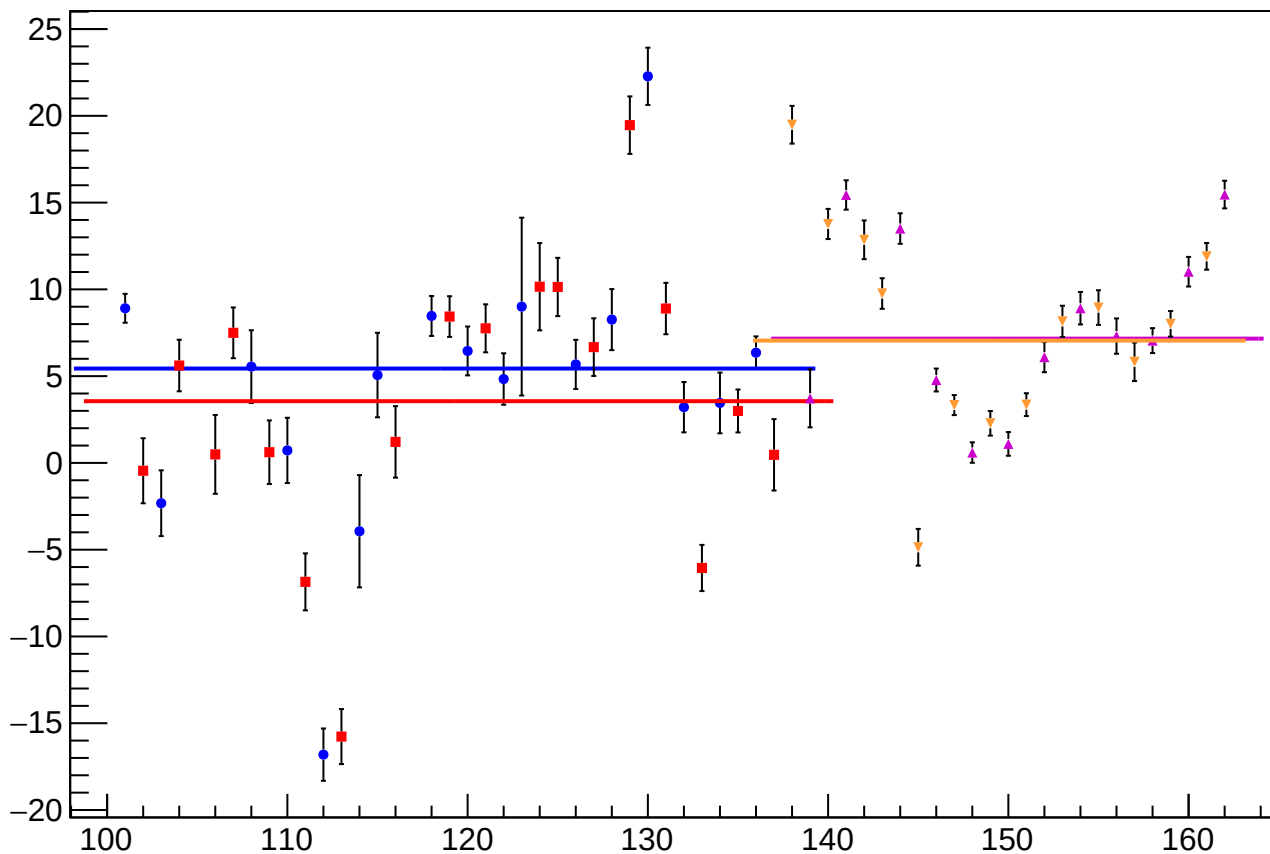
Left In: 64.467 $\pm$ 0.278  $\chi^2$ /NDF: 565.5/11

+ sign 66.669 $\pm$ 0.252  $\chi^2$ /NDF: 3325.3/29

All: 67.155 $\pm$ 0.178  $\chi^2$ /NDF: 6165.8/59

- sign 67.639 $\pm$ 0.252  $\chi^2$ /NDF: 2833.1/29

# 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:  $7.051 \pm 0.229$   $\chi^2/\text{NDF}: 520.0/12$

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}: 420.6/17$

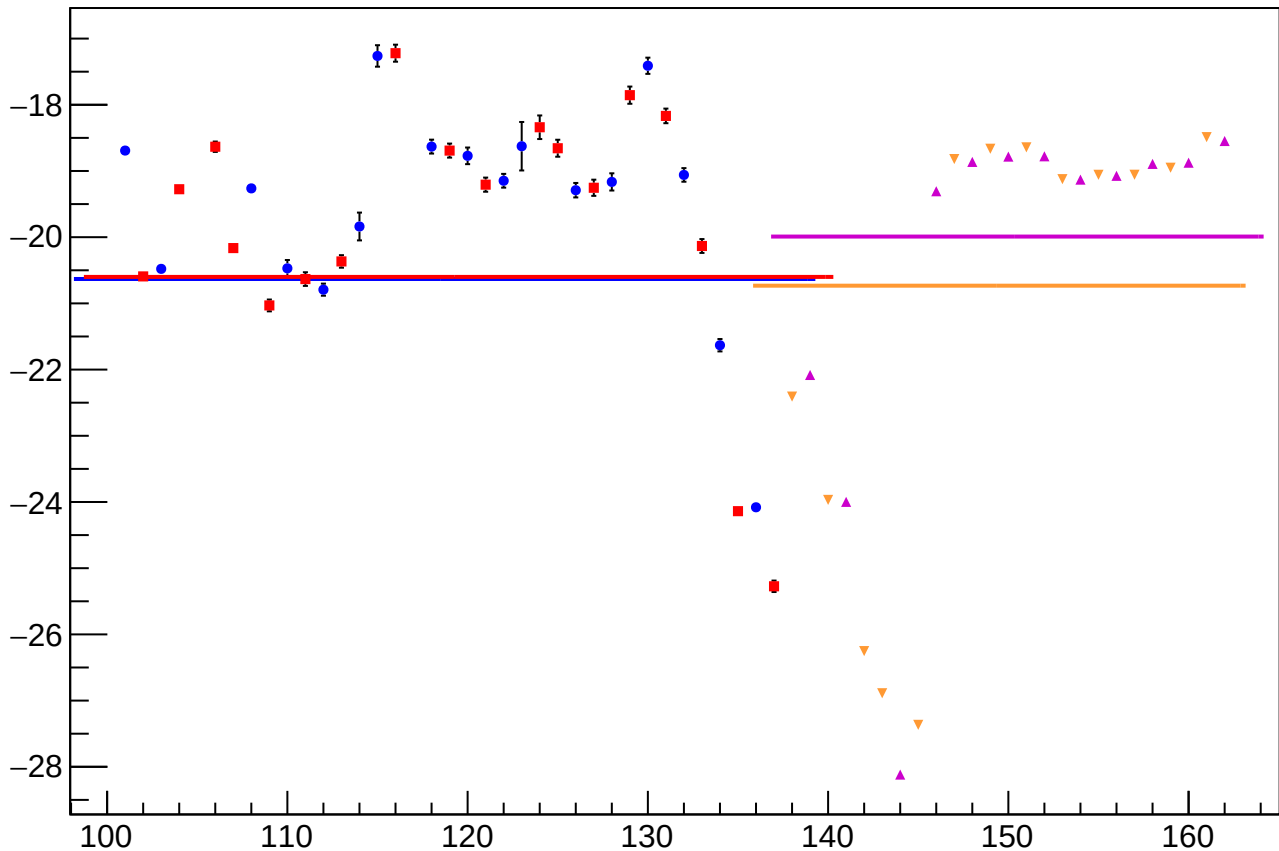
Left In:  $7.161 \pm 0.231$   $\chi^2/\text{NDF}: 502.4/11$

+ sign  $6.582 \pm 0.193$   $\chi^2/\text{NDF}: 920.6/29$

All:  $6.380 \pm 0.138$   $\chi^2/\text{NDF}: 1912.6/59$

- sign  $6.169 \pm 0.197$   $\chi^2/\text{NDF}: 989.8/29$

# 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:  $-20.733 \pm 0.011$   $\chi^2/\text{NDF}: 75931.5/12$

Right Out:  $-20.600 \pm 0.019$   $\chi^2/\text{NDF}: 11973.7/17$

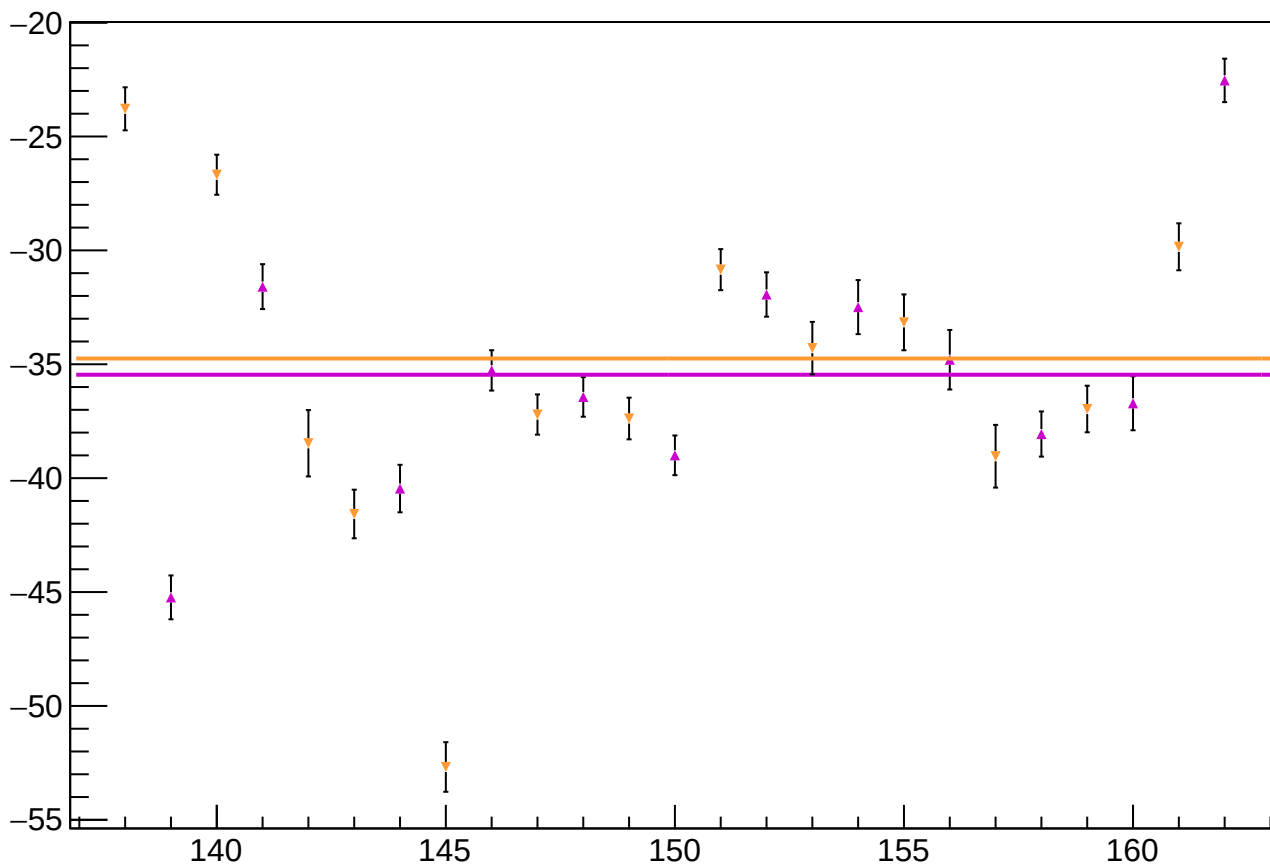
Left In:  $-19.991 \pm 0.011$   $\chi^2/\text{NDF}: 48056.8/11$

+ sign  $-20.707 \pm 0.010$   $\chi^2/\text{NDF}: 88453.7/29$

All:  $-20.419 \pm 0.007$   $\chi^2/\text{NDF}: 150992.9/59$

- sign  $-20.137 \pm 0.010$   $\chi^2/\text{NDF}: 60776.0/29$

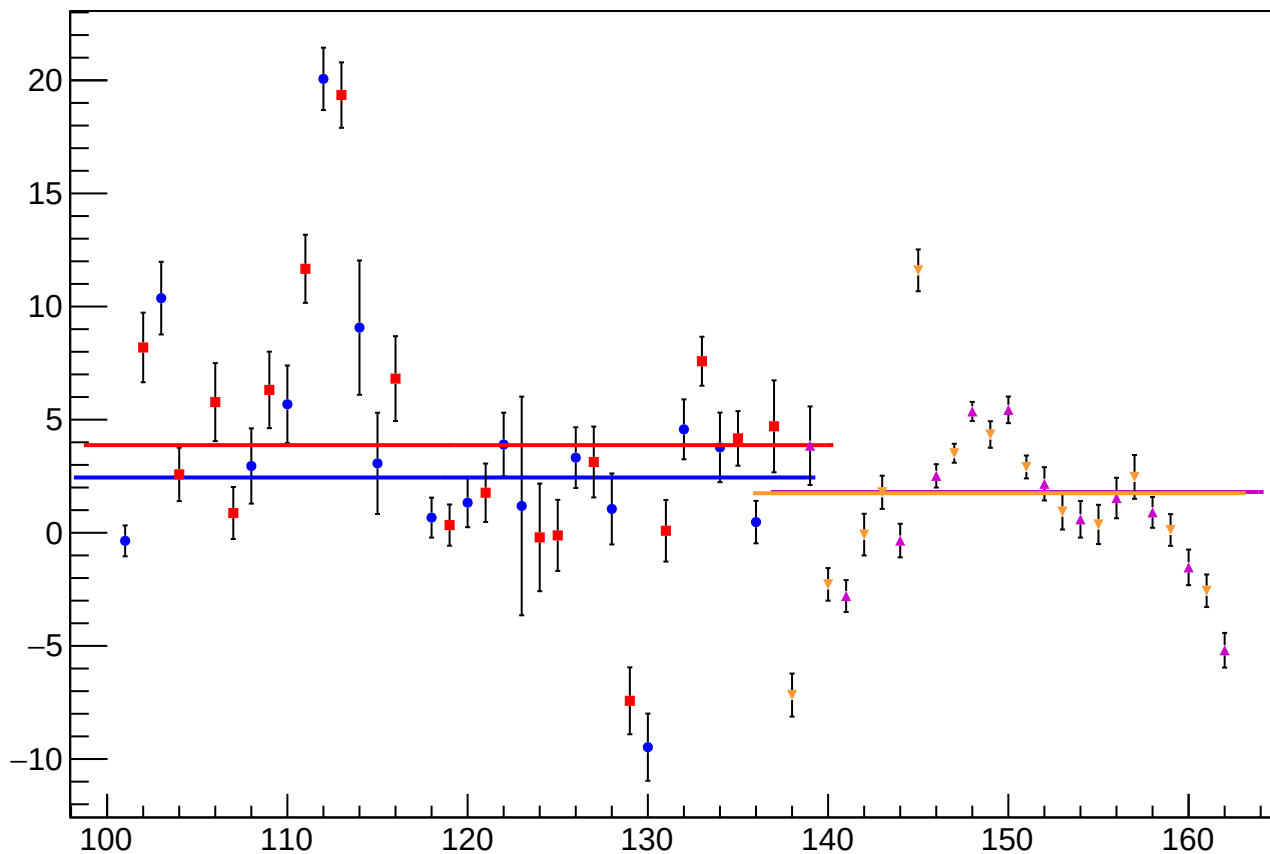
# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-34.747 \pm 0.287$   $\chi^2/\text{NDF}: 610.8/12$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-35.460 \pm 0.287$   $\chi^2/\text{NDF}: 370.3/11$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $-35.103 \pm 0.203$   $\chi^2/\text{NDF}: 984.1/24$   
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# 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:  $1.749 \pm 0.190$   $\chi^2/\text{NDF}$ : 324.6/12

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

Left In:  $1.803 \pm 0.194$   $\chi^2/\text{NDF}$ : 269.3/11

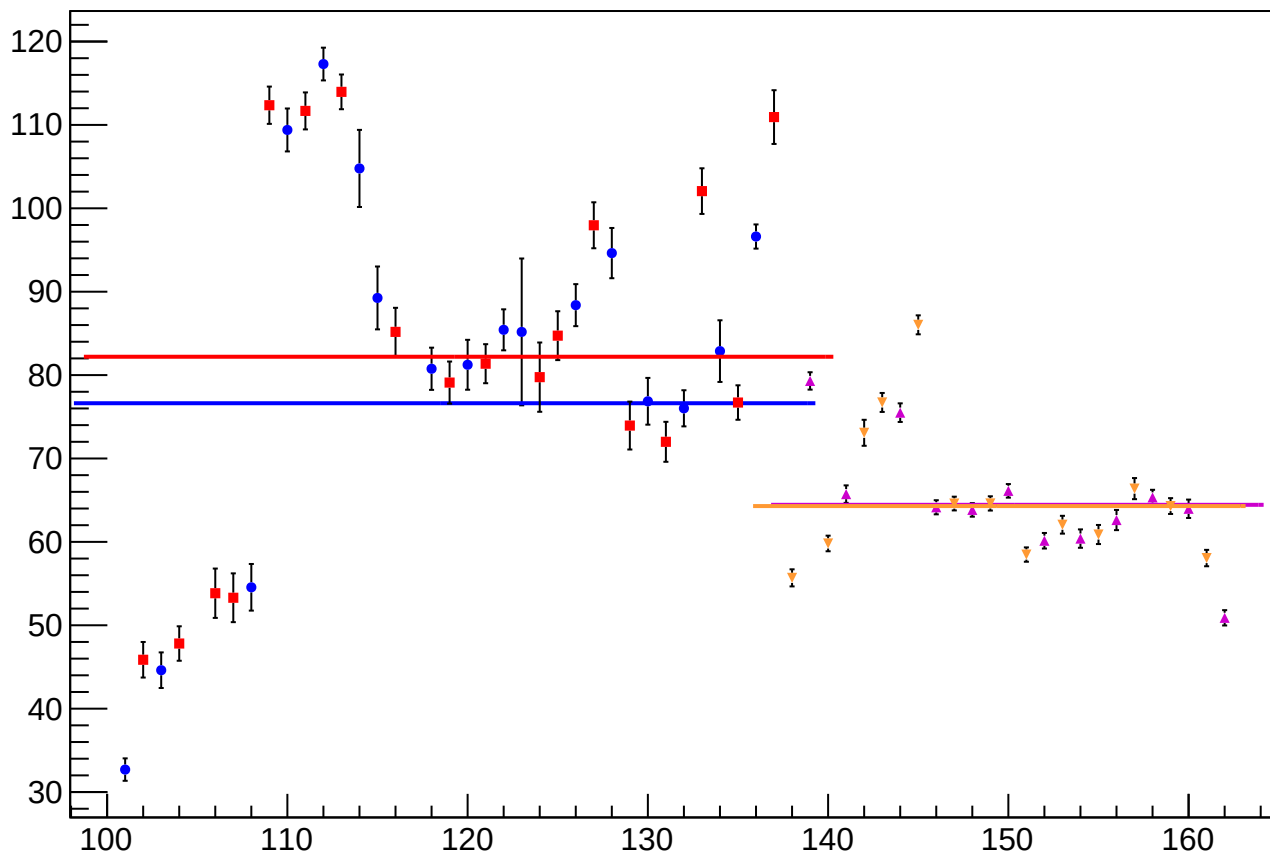
+ sign  $1.938 \pm 0.162$   $\chi^2/\text{NDF}$ : 620.9/29

All:  $2.135 \pm 0.116$   $\chi^2/\text{NDF}$ : 1191.2/59

- sign  $2.343 \pm 0.167$   $\chi^2/\text{NDF}$ : 567.2/29



# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $76.626 \pm 0.574$   $\chi^2/\text{NDF}$ : 2262.8/16

Left Out:  $64.294 \pm 0.281$   $\chi^2/\text{NDF}$ : 711.5/12

Right Out:  $82.201 \pm 0.593$   $\chi^2/\text{NDF}$ : 1550.2/17

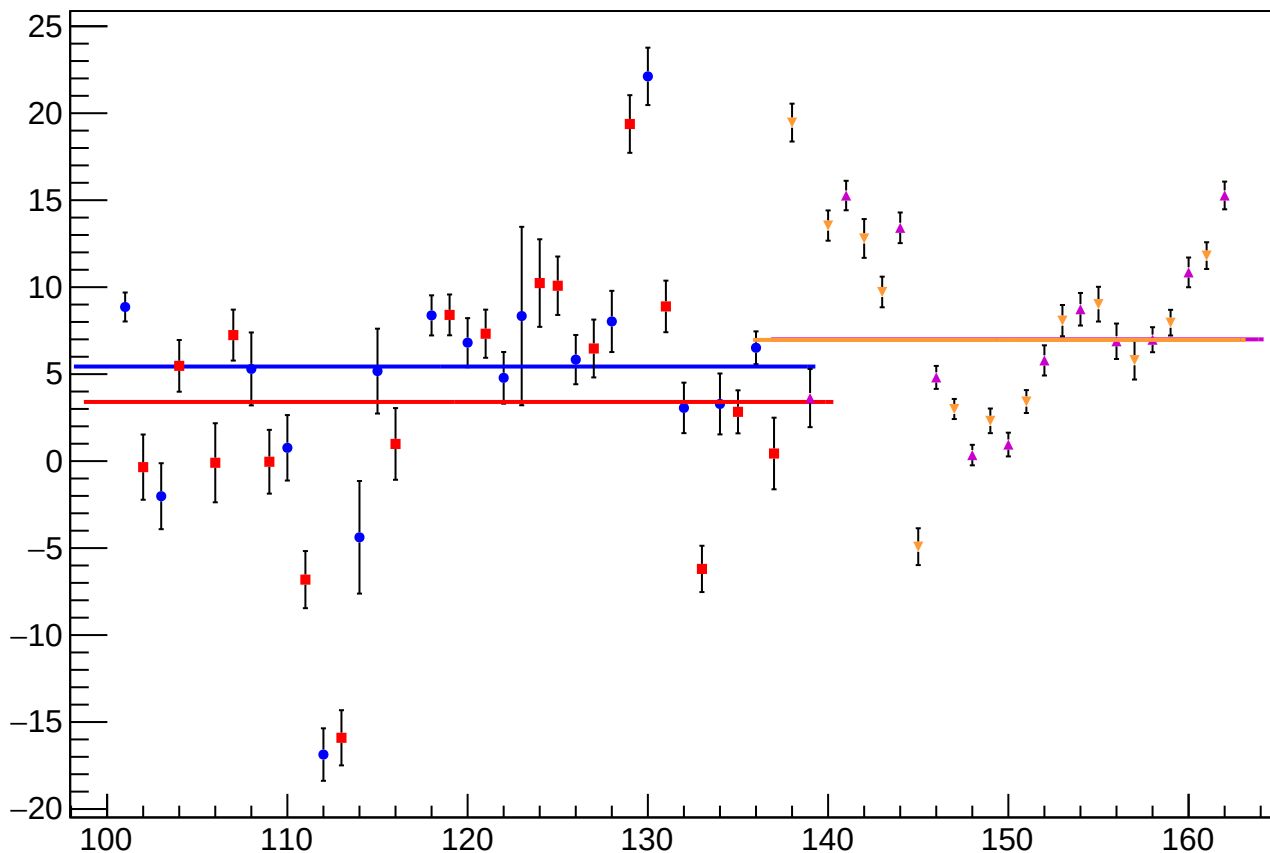
Left In:  $64.444 \pm 0.278$   $\chi^2/\text{NDF}$ : 563.8/11

+ sign  $66.678 \pm 0.253$   $\chi^2/\text{NDF}$ : 3346.1/29

All:  $67.166 \pm 0.178$   $\chi^2/\text{NDF}$ : 6202.3/59

- sign  $67.652 \pm 0.252$   $\chi^2/\text{NDF}$ : 2848.8/29

# 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:  $6.969 \pm 0.229$   $\chi^2/\text{NDF}: 519.7/12$

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}: 420.9/17$

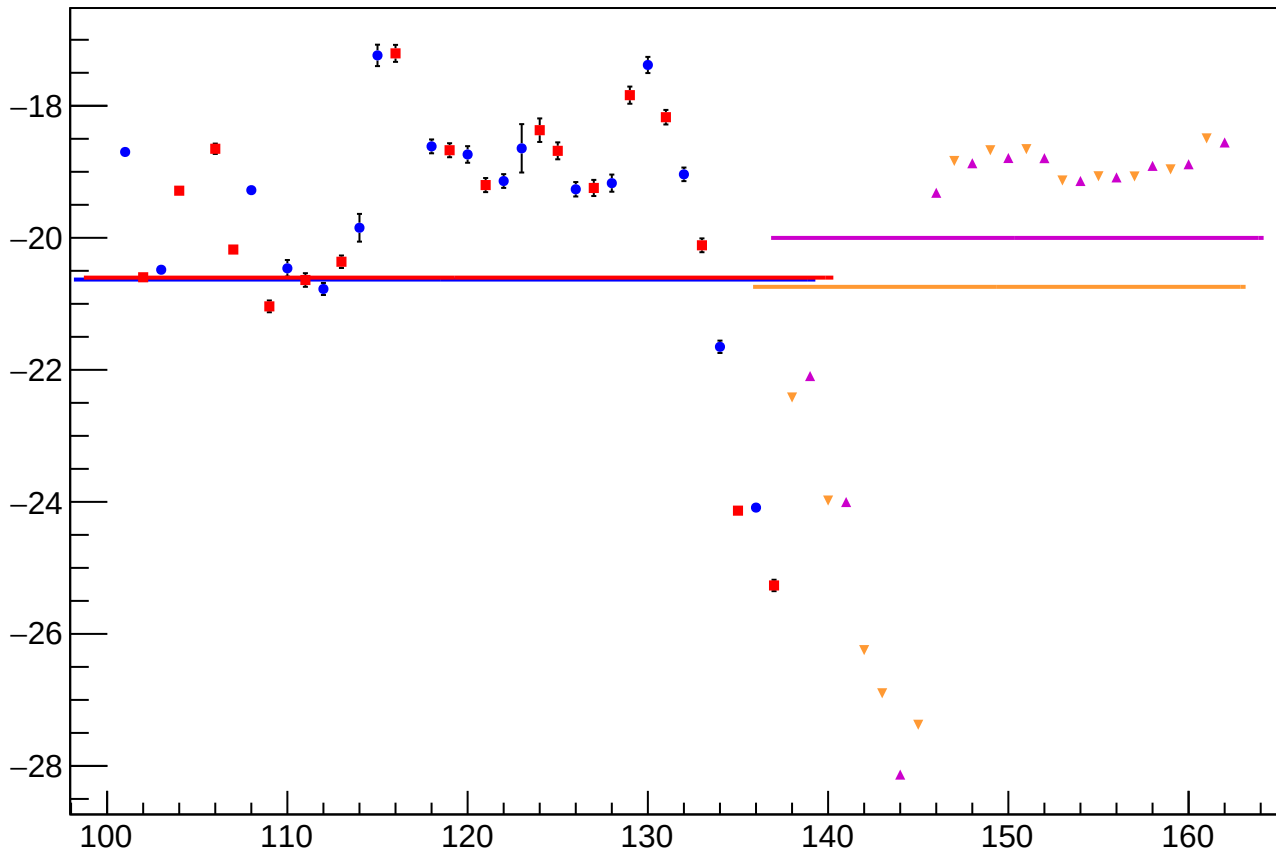
Left In:  $6.999 \pm 0.231$   $\chi^2/\text{NDF}: 502.8/11$

+ sign  $6.523 \pm 0.193$   $\chi^2/\text{NDF}: 917.2/29$

All:  $6.271 \pm 0.138$   $\chi^2/\text{NDF}: 1911.0/59$

- sign  $6.008 \pm 0.197$   $\chi^2/\text{NDF}: 990.3/29$

# 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:  $-20.743 \pm 0.011$   $\chi^2/\text{NDF}$ : 75790.2/12

Right Out:  $-20.603 \pm 0.019$   $\chi^2/\text{NDF}$ : 11925.8/17

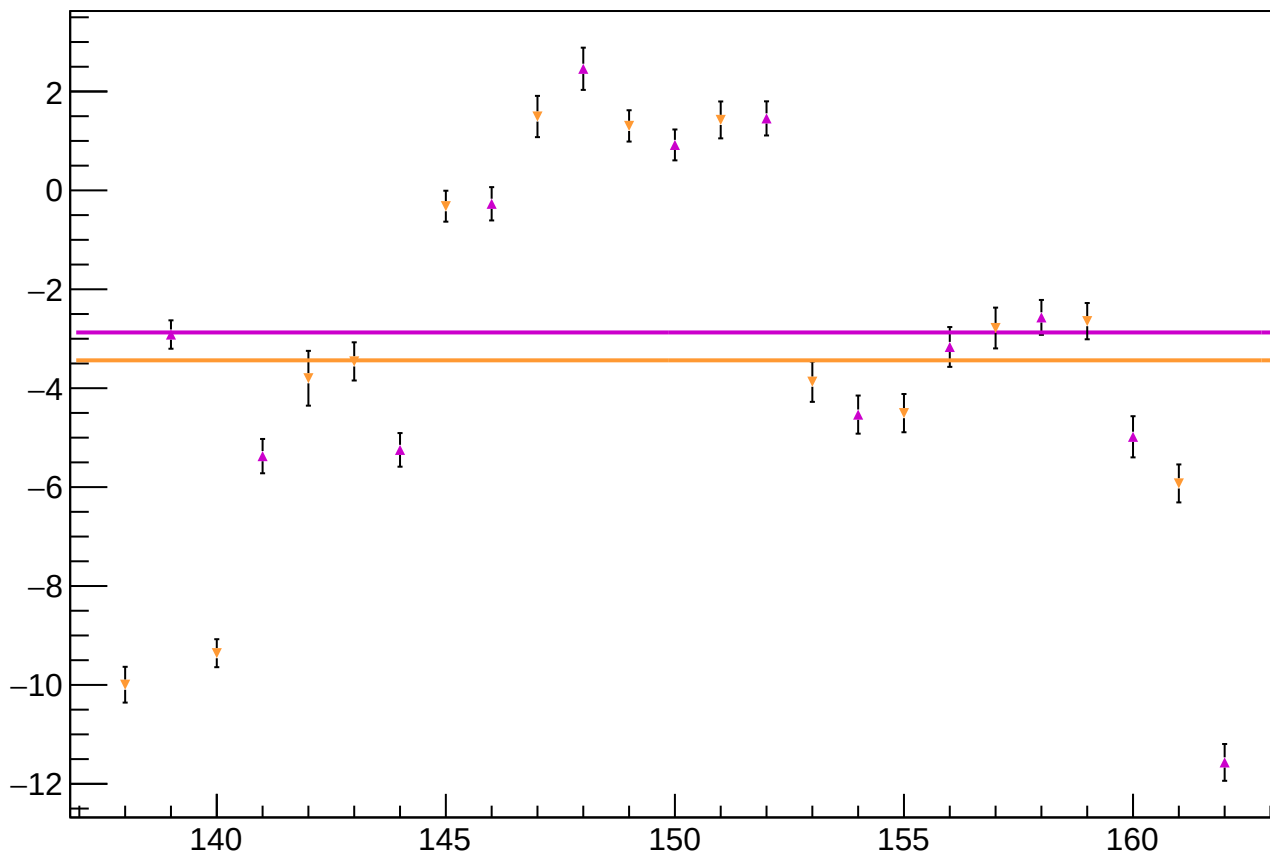
Left In:  $-20.001 \pm 0.011$   $\chi^2/\text{NDF}$ : 47990.2/11

+ sign  $-20.715 \pm 0.010$   $\chi^2/\text{NDF}$ : 88357.9/29

All:  $-20.427 \pm 0.007$   $\chi^2/\text{NDF}$ : 150753.2/59

- sign  $-20.146 \pm 0.010$   $\chi^2/\text{NDF}$ : 60641.2/29

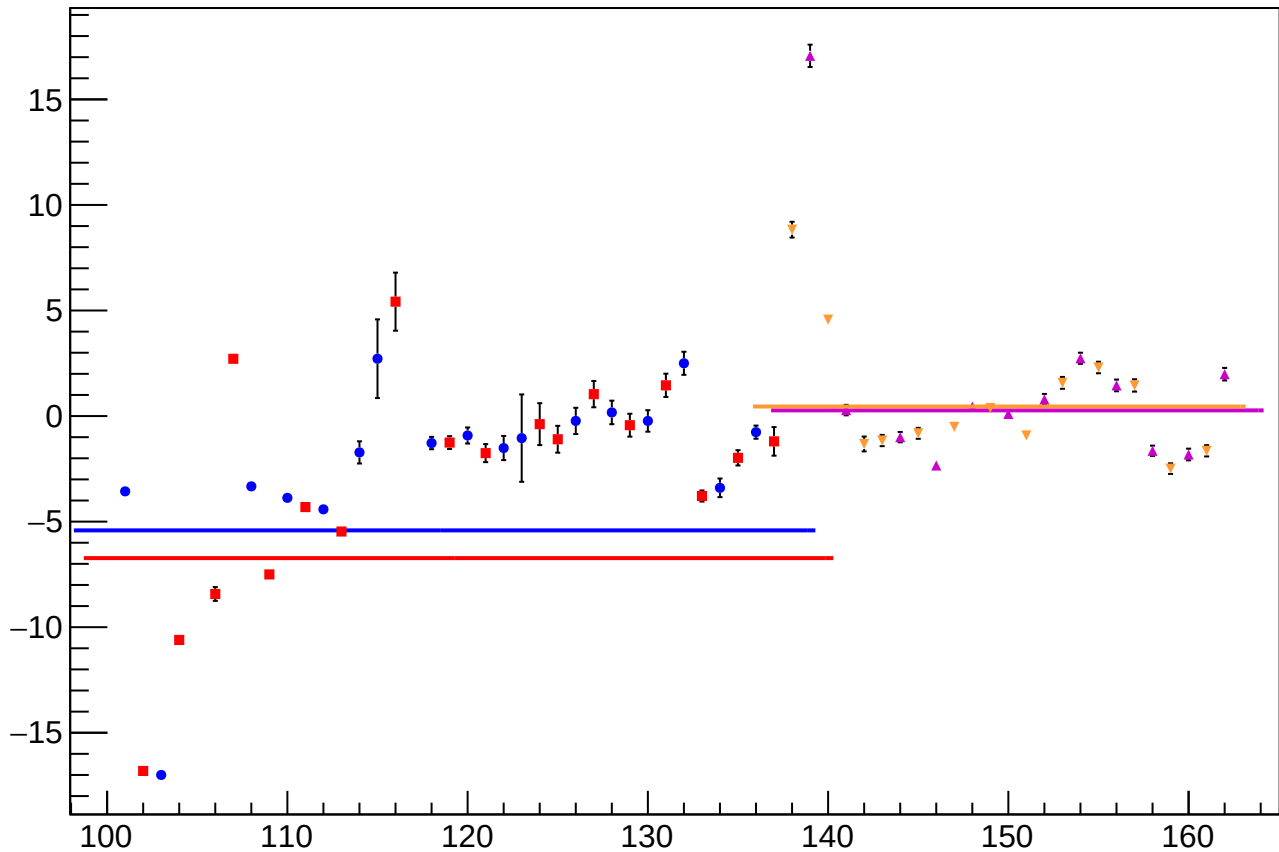
# reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.437+/-0.102  $\chi^2/\text{NDF}$ : 1457.6/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.873+/-0.102  $\chi^2/\text{NDF}$ : 1212.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -3.155+/-0.072  $\chi^2/\text{NDF}$ : 2685.7/24  
 - 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:  $0.453 \pm 0.071$   $\chi^2/\text{NDF}$ : 1224.4/12

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}$ : 11217.0/17

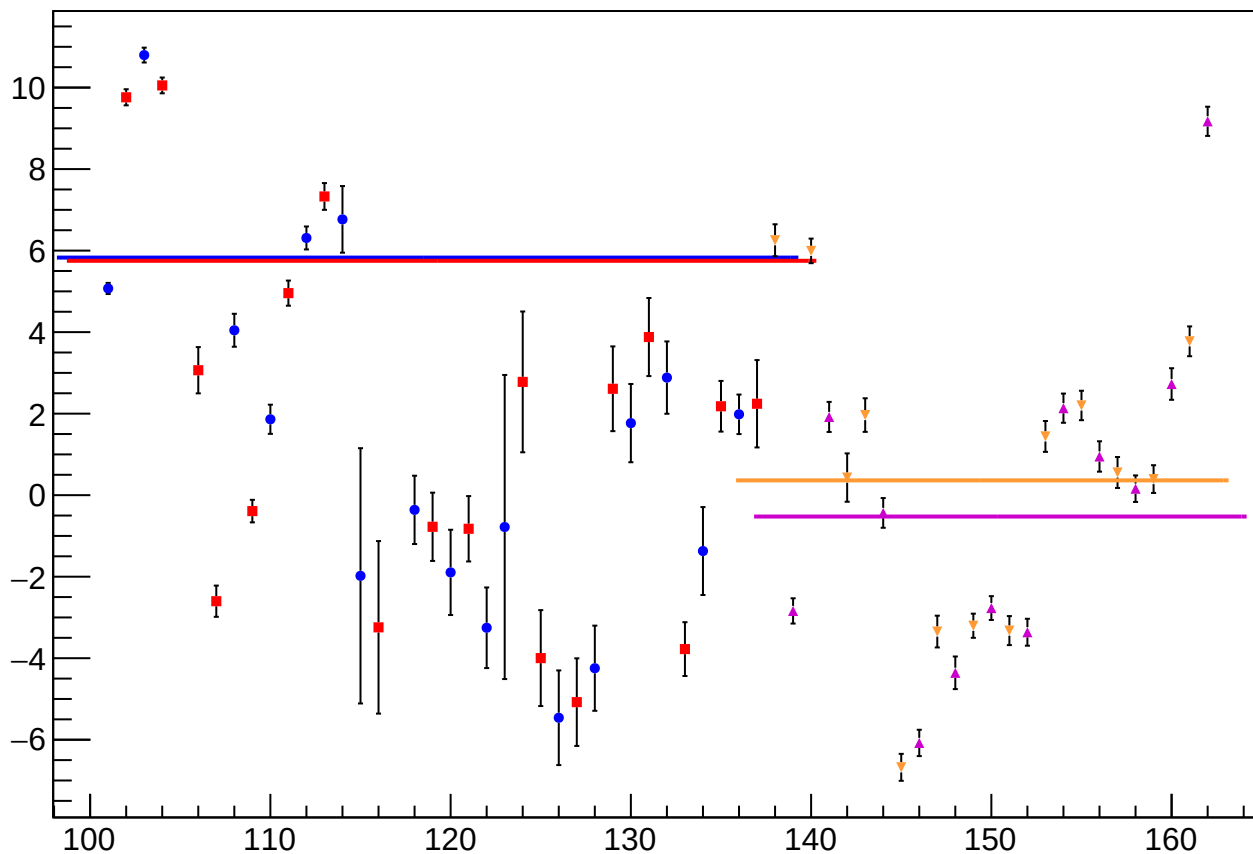
Left In:  $0.270 \pm 0.073$   $\chi^2/\text{NDF}$ : 1447.3/11

+ sign  $-3.227 \pm 0.043$   $\chi^2/\text{NDF}$ : 14762.3/29

All:  $-3.554 \pm 0.032$   $\chi^2/\text{NDF}$ : 33026.7/59

- sign  $-3.928 \pm 0.046$   $\chi^2/\text{NDF}$ : 18142.3/29

# 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:  $0.363 \pm 0.101$   $\chi^2/\text{NDF}: 1506.9/12$

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}: 2511.0/17$

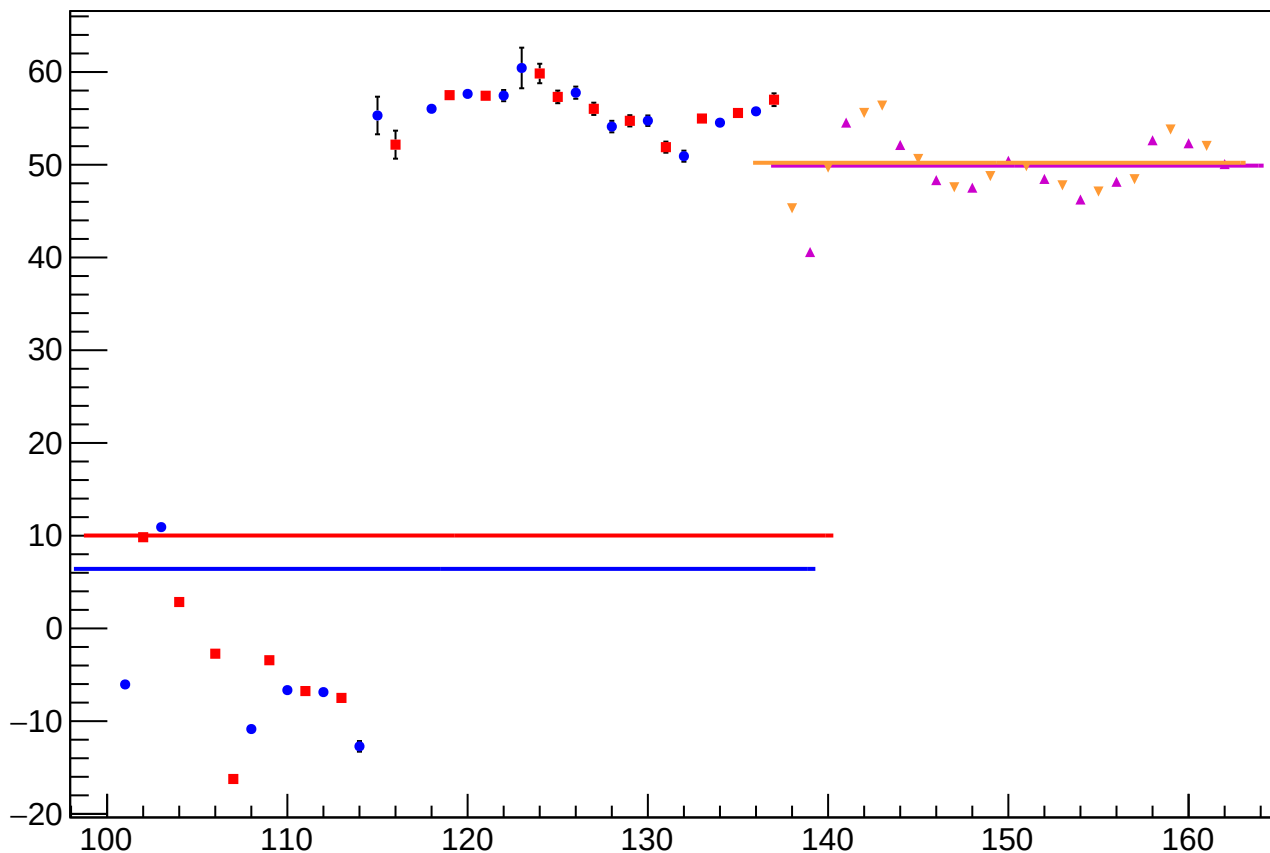
Left In:  $-0.524 \pm 0.100$   $\chi^2/\text{NDF}: 1499.1/11$

+ sign  $3.408 \pm 0.067$   $\chi^2/\text{NDF}: 4602.4/29$

All:  $3.076 \pm 0.048$   $\chi^2/\text{NDF}: 10717.0/59$

- sign  $2.720 \pm 0.069$   $\chi^2/\text{NDF}: 6063.4/29$

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:  $50.214 \pm 0.084$   $\chi^2/\text{NDF}$ : 1206.0/12

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}$ : 122082.4/17

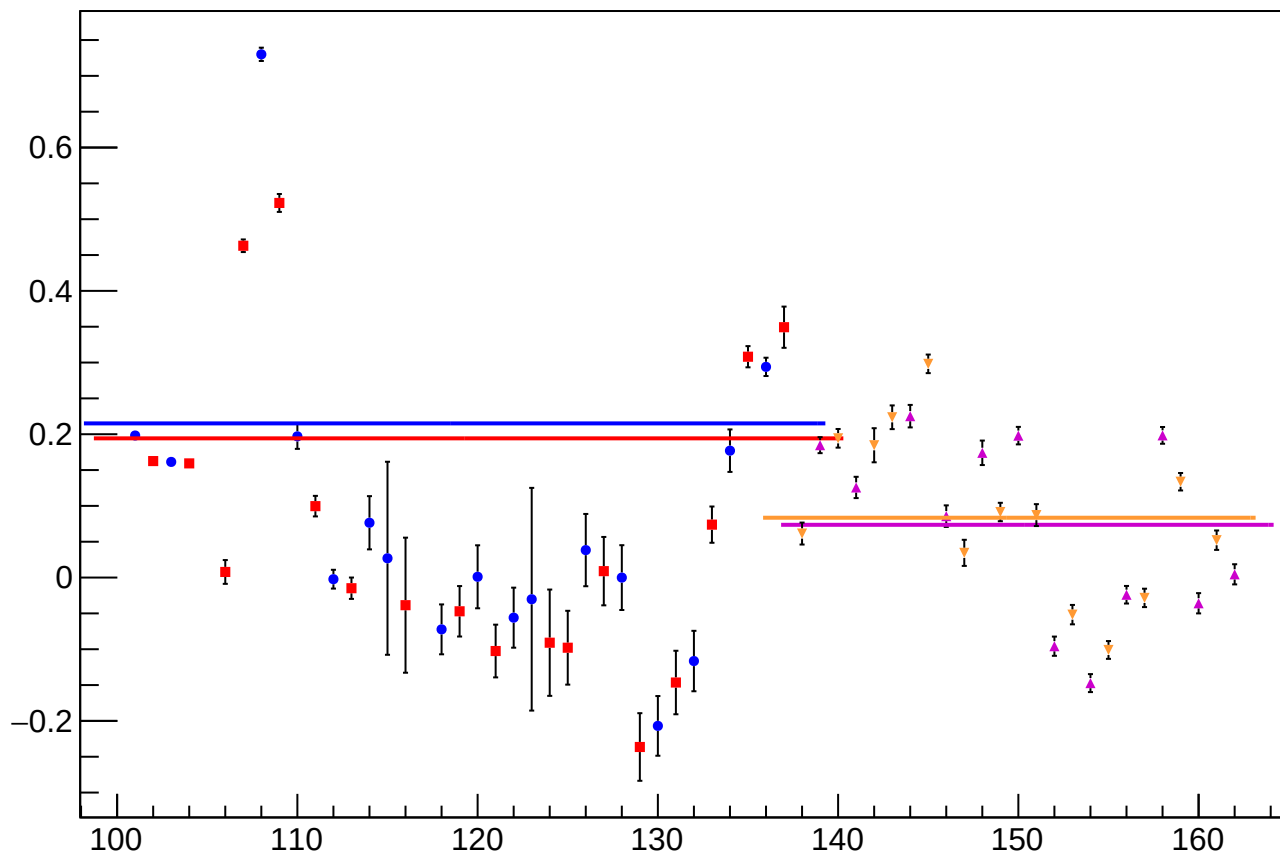
Left In:  $49.904 \pm 0.085$   $\chi^2/\text{NDF}$ : 1114.9/11

+ sign  $22.762 \pm 0.051$   $\chi^2/\text{NDF}$ : 295095.2/29

All:  $24.423 \pm 0.037$   $\chi^2/\text{NDF}$ : 550326.7/59

- sign  $26.296 \pm 0.054$   $\chi^2/\text{NDF}$ : 252996.0/29

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.215+/-0.003  $\chi^2/\text{NDF}$ : 3927.2/16

Left Out: 0.083+/-0.004  $\chi^2/\text{NDF}$ : 865.1/12

Right Out: 0.194+/-0.003  $\chi^2/\text{NDF}$ : 2520.1/17

Left In: 0.074+/-0.004  $\chi^2/\text{NDF}$ : 1074.8/11

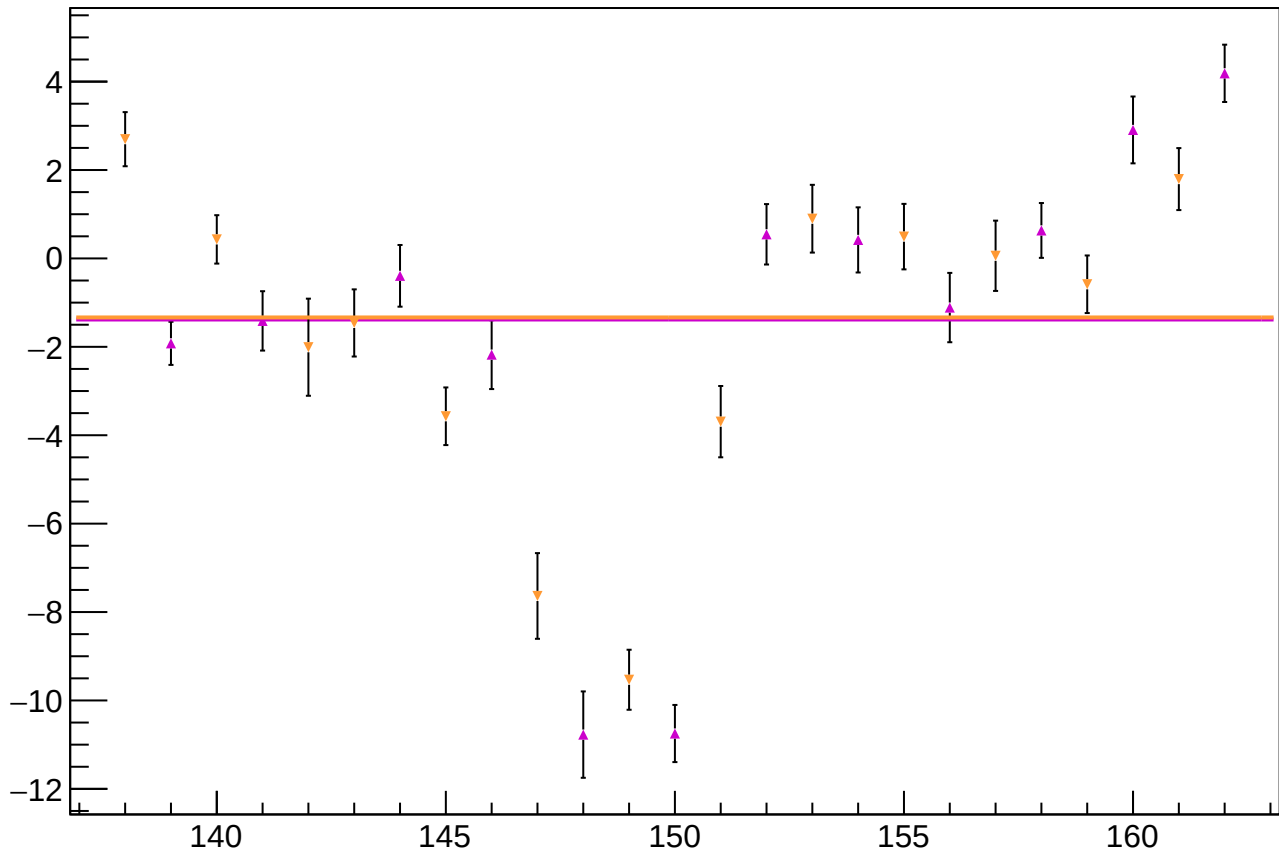
+ sign 0.171+/-0.002  $\chi^2/\text{NDF}$ : 5544.5/29

All: 0.162+/-0.002  $\chi^2/\text{NDF}$ : 9818.2/59

- sign 0.154+/-0.002  $\chi^2/\text{NDF}$ : 4242.9/29



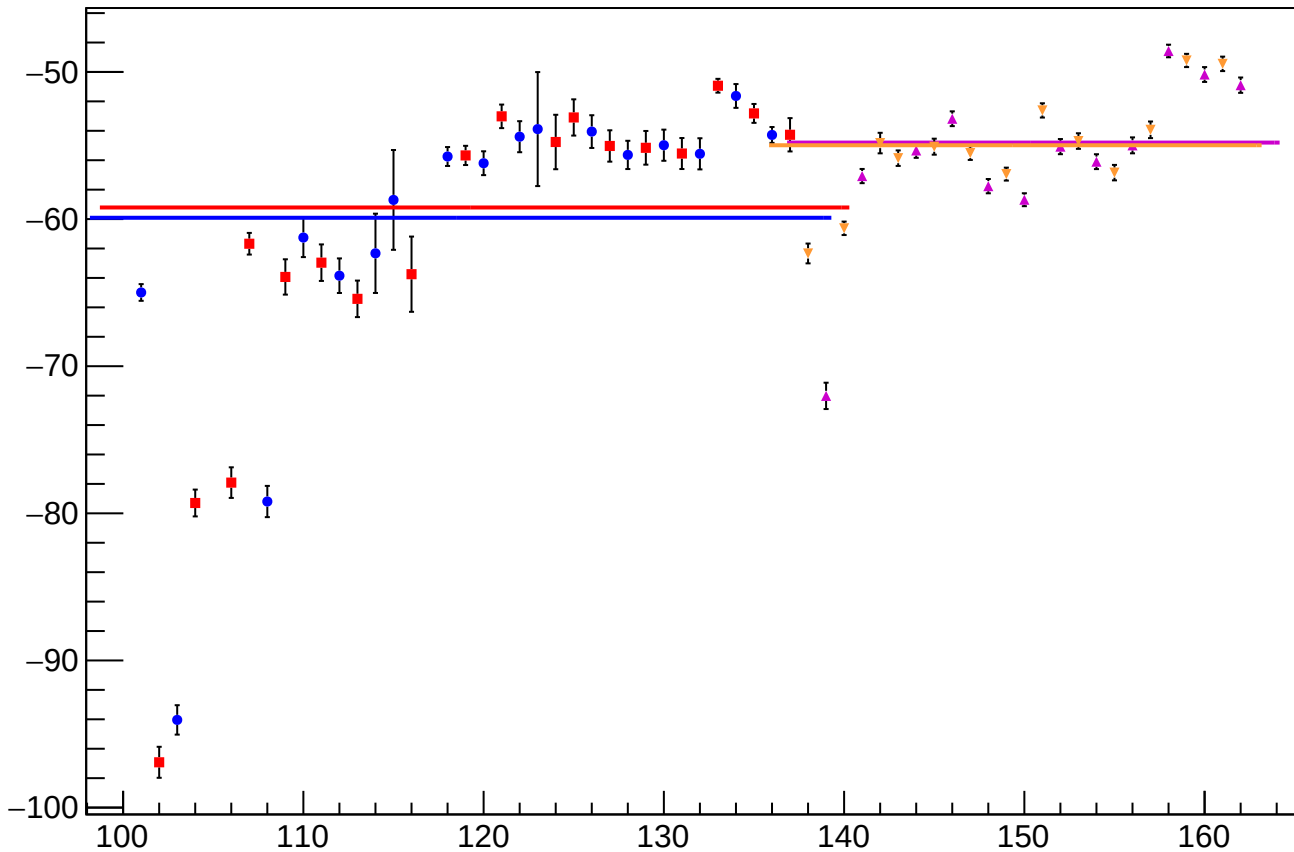
# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -1.336 $\pm$ 0.199  $\chi^2$ /NDF:301.4/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -1.382 $\pm$ 0.197  $\chi^2$ /NDF:437.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -1.359 $\pm$ 0.140  $\chi^2$ /NDF: 738.5/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-59.911 \pm 0.223$   $\chi^2/\text{NDF}$ : 1980.8/16

Left Out:  $-54.982 \pm 0.142$   $\chi^2/\text{NDF}$ : 626.5/12

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

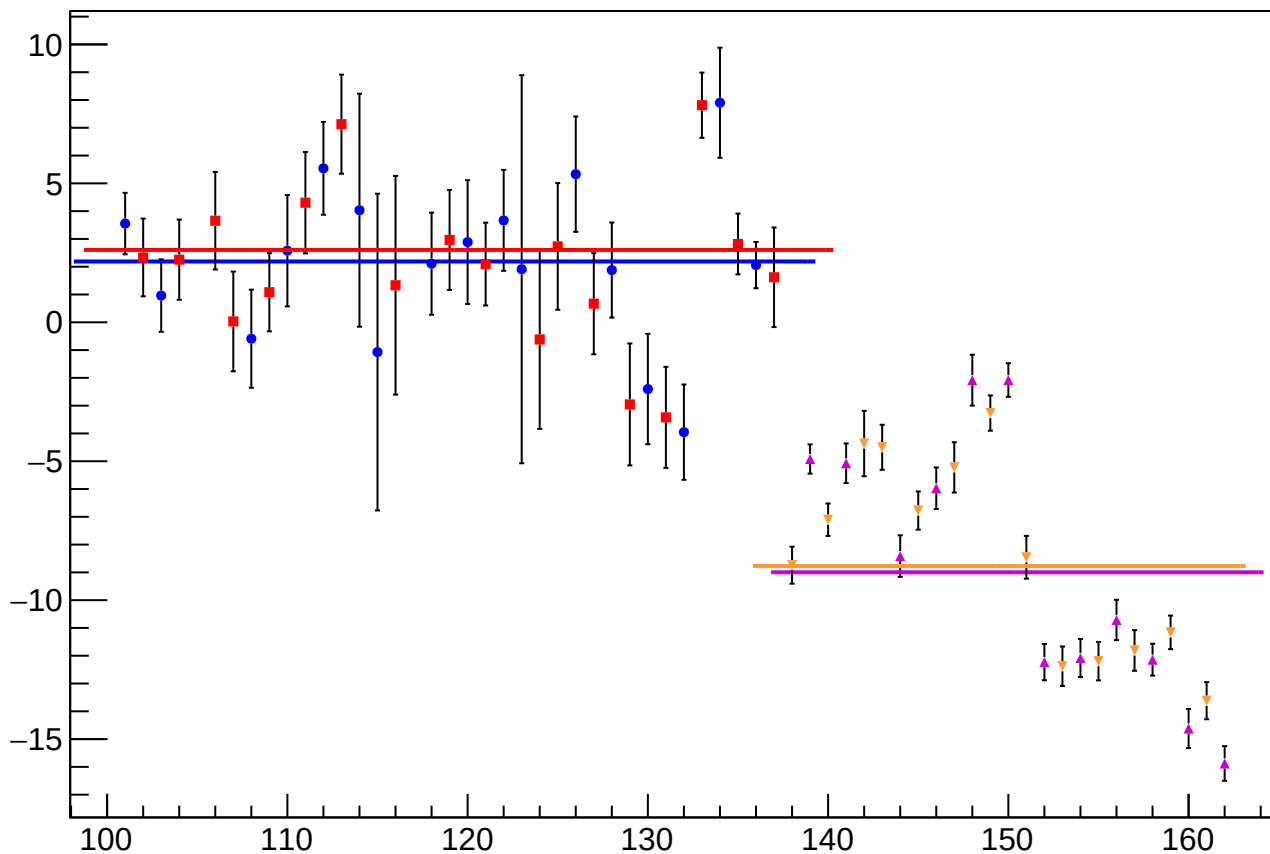
Left In:  $-54.800 \pm 0.146$   $\chi^2/\text{NDF}$ : 876.3/11

+ sign  $-56.406 \pm 0.120$   $\chi^2/\text{NDF}$ : 2954.1/29

All:  $-56.311 \pm 0.085$   $\chi^2/\text{NDF}$ : 6867.7/59

- sign  $-56.215 \pm 0.120$   $\chi^2/\text{NDF}$ : 3912.3/29

# 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:  $-8.771 \pm 0.197$   $\chi^2/\text{NDF}$ : 284.8/12

Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}$ : 50.8/17

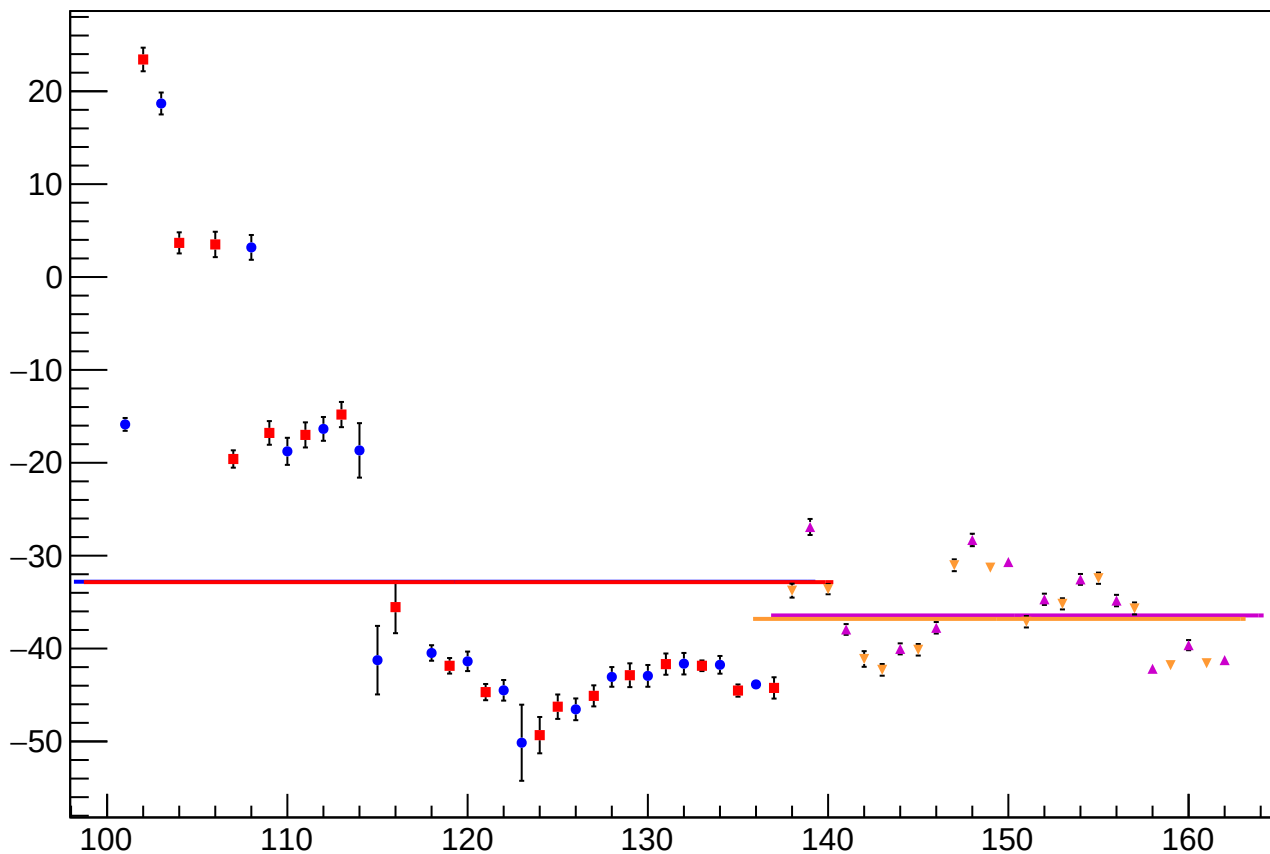
Left In:  $-8.996 \pm 0.192$   $\chi^2/\text{NDF}$ : 560.7/11

+ sign  $-6.676 \pm 0.177$   $\chi^2/\text{NDF}$ : 917.5/29

All:  $-6.707 \pm 0.123$   $\chi^2/\text{NDF}$ : 2238.3/59

- sign  $-6.737 \pm 0.172$   $\chi^2/\text{NDF}$ : 1320.8/29

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.806 \pm 0.254$   $\chi^2/\text{NDF}: 4662.8/16$

Left Out:  $-36.807 \pm 0.166$   $\chi^2/\text{NDF}: 629.1/12$

Right Out:  $-32.850 \pm 0.244$   $\chi^2/\text{NDF}: 5750.3/17$

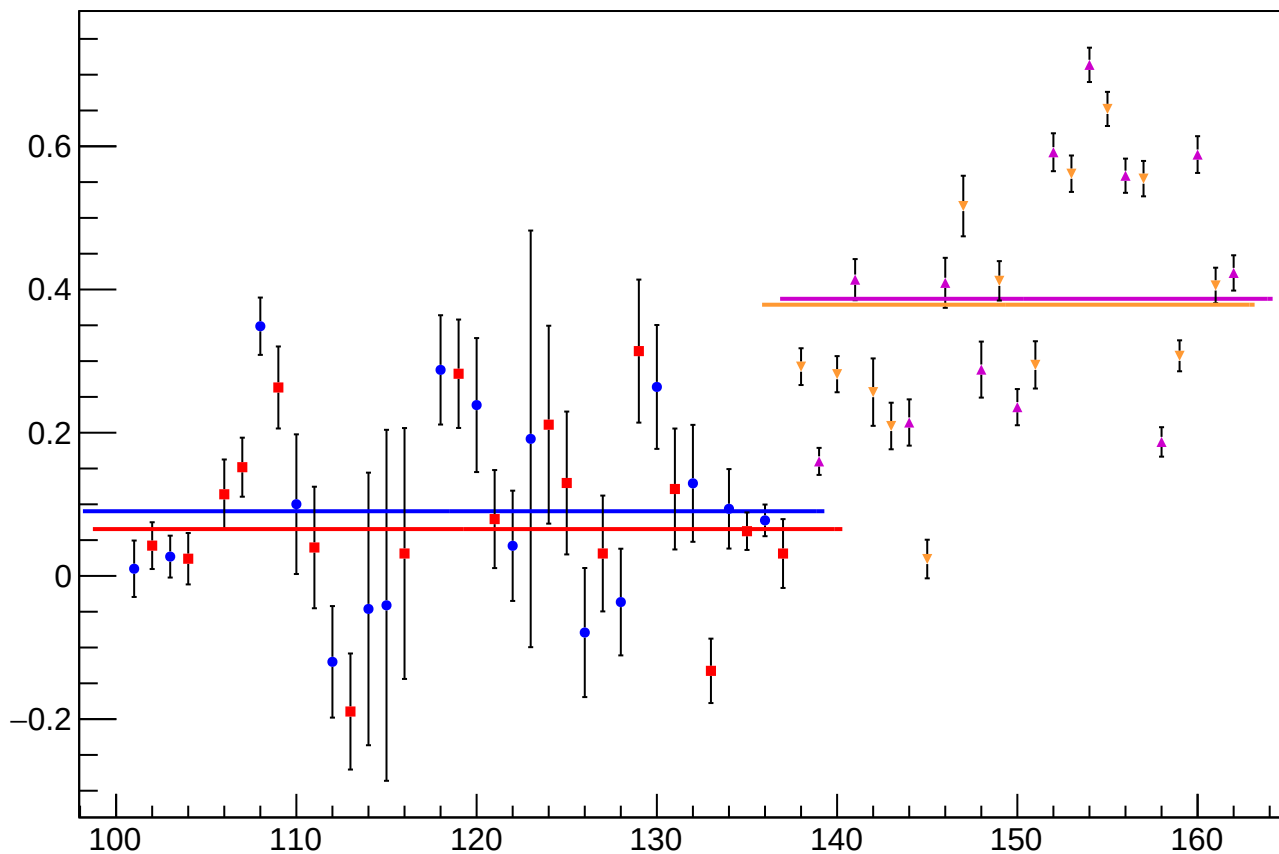
Left In:  $-36.435 \pm 0.167$   $\chi^2/\text{NDF}: 778.4/11$

+ sign  $-35.612 \pm 0.139$   $\chi^2/\text{NDF}: 5465.5/29$

All:  $-35.451 \pm 0.098$   $\chi^2/\text{NDF}: 12143.6/59$

- sign  $-35.293 \pm 0.138$   $\chi^2/\text{NDF}: 6675.4/29$

# 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:  $0.379 \pm 0.008$   $\chi^2/\text{NDF}$ : 498.1/12

Right Out:  $0.065 \pm 0.012$   $\chi^2/\text{NDF}$ : 65.7/17

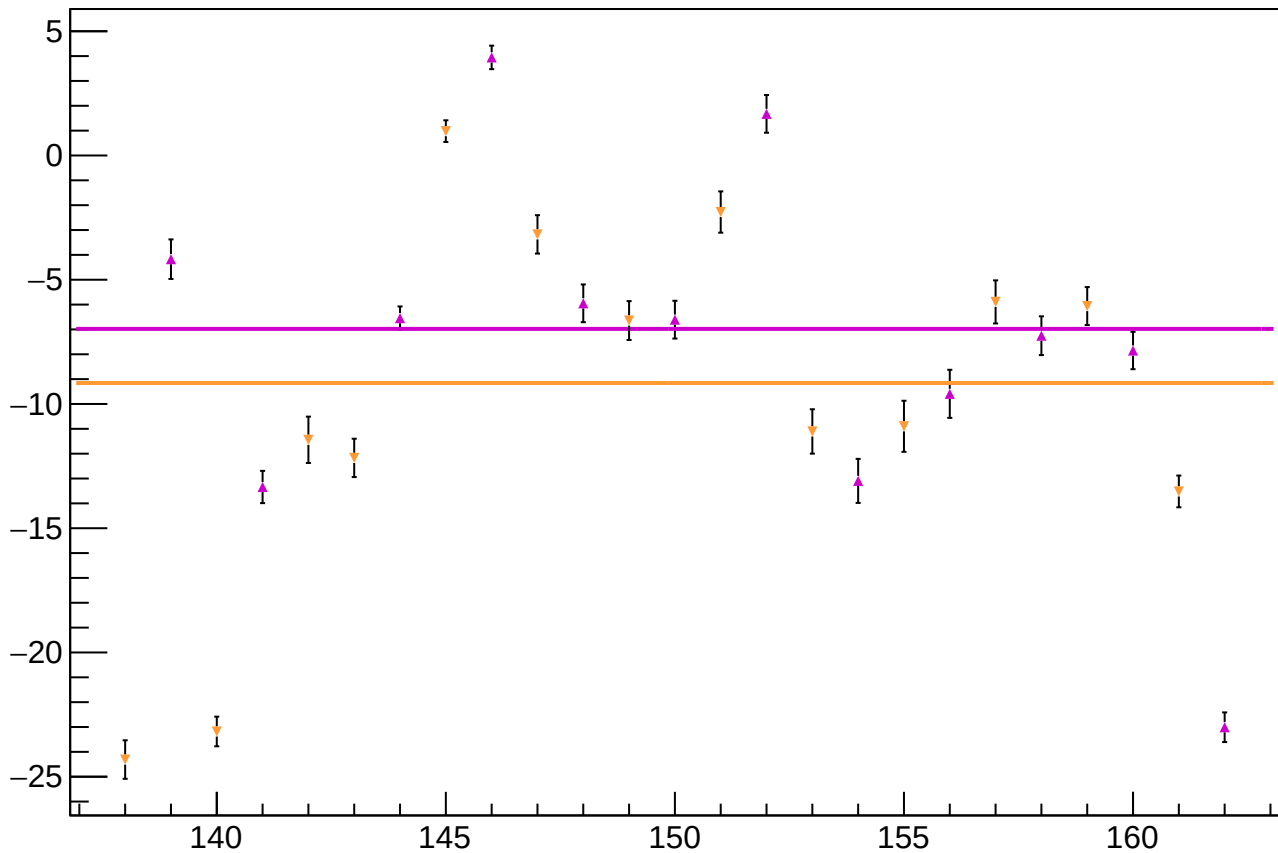
Left In:  $0.387 \pm 0.007$   $\chi^2/\text{NDF}$ : 672.0/11

+ sign  $0.303 \pm 0.007$   $\chi^2/\text{NDF}$ : 956.4/29

All:  $0.302 \pm 0.005$   $\chi^2/\text{NDF}$ : 2200.9/59

- sign  $0.302 \pm 0.006$   $\chi^2/\text{NDF}$ : 1244.5/29

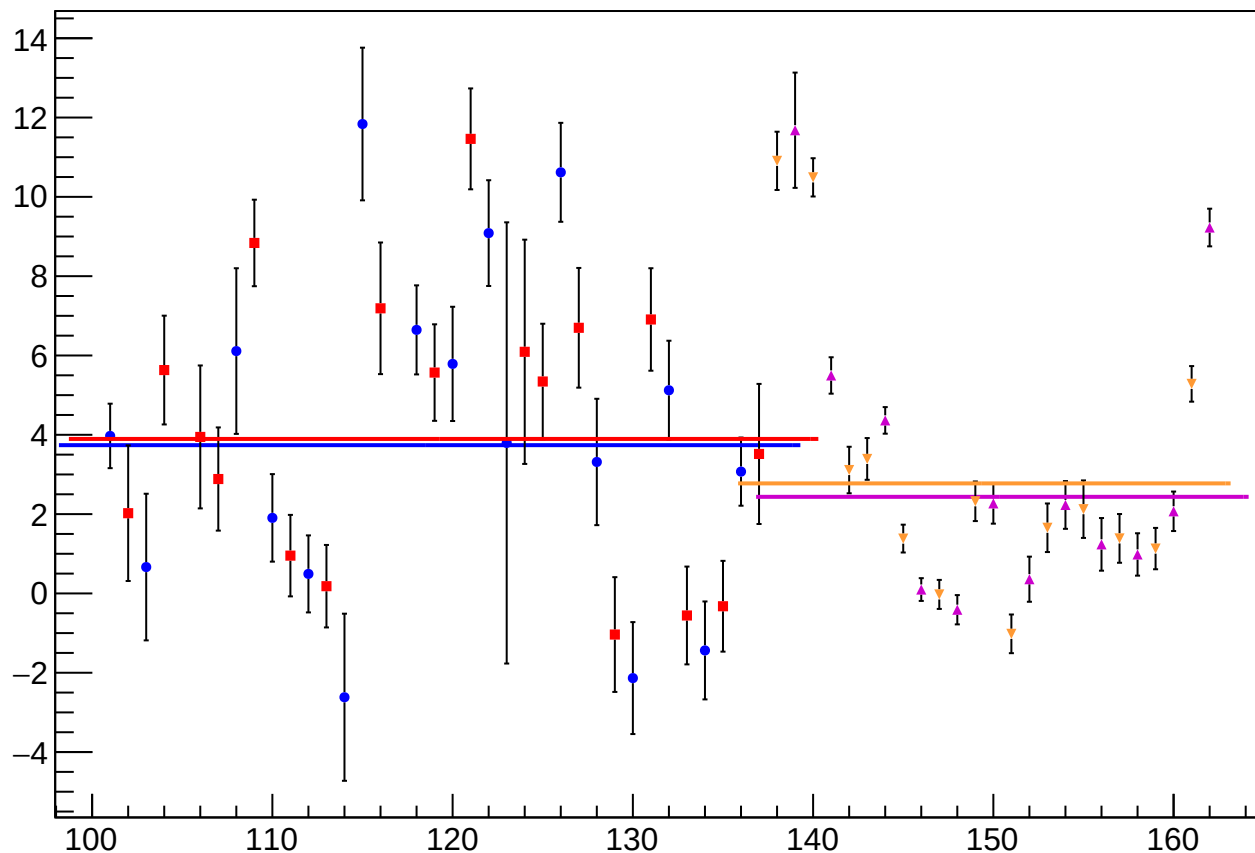
# reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.157+/-0.200  $\chi^2/\text{NDF}$ : 1720.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.978+/-0.194  $\chi^2/\text{NDF}$ : 1553.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -8.032+/-0.139  $\chi^2/\text{NDF}$ : 3335.6/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.739 \pm 0.309$   $\chi^2/\text{NDF}: 136.9/16$

Left Out:  $2.775 \pm 0.138$   $\chi^2/\text{NDF}: 566.2/12$

Right Out:  $3.896 \pm 0.316$   $\chi^2/\text{NDF}: 134.9/17$

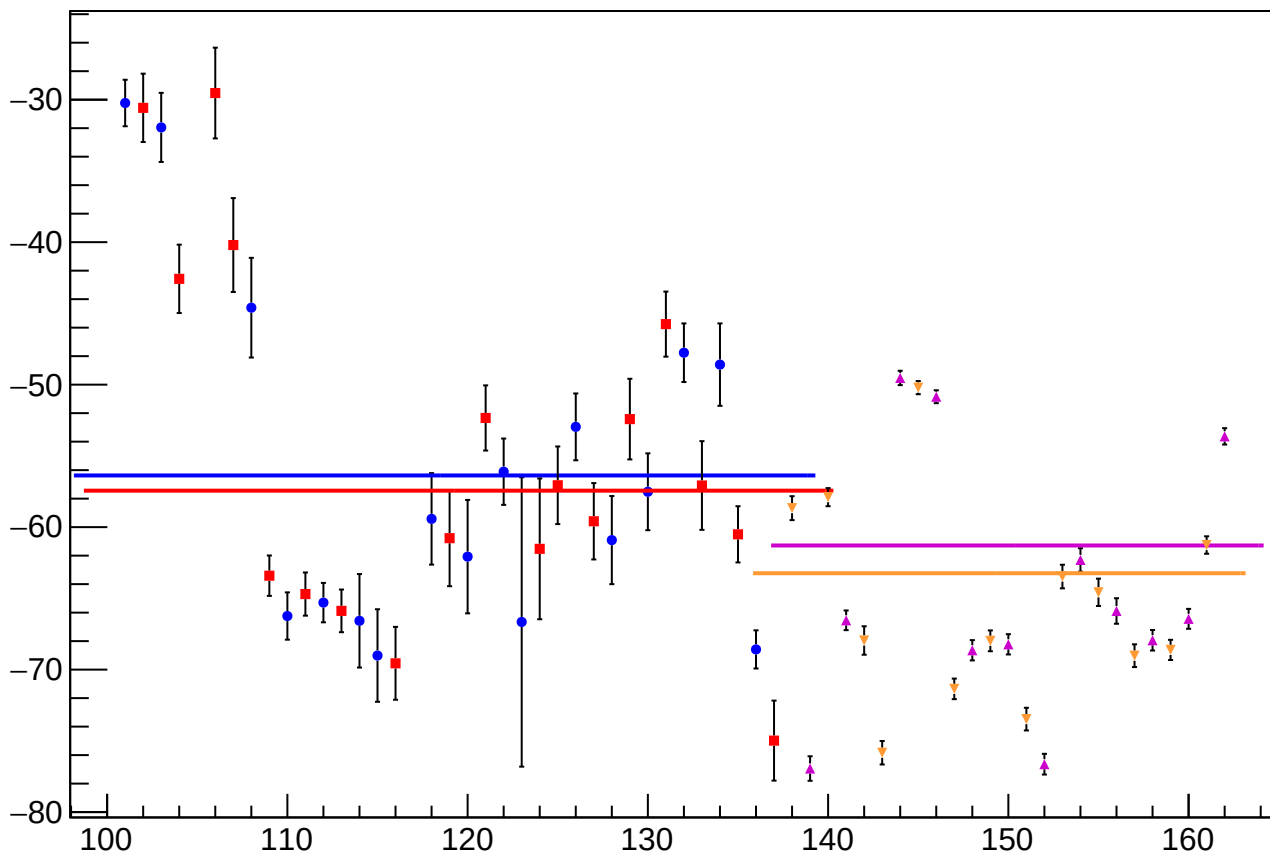
Left In:  $2.436 \pm 0.132$   $\chi^2/\text{NDF}: 473.2/11$

+ sign  $2.935 \pm 0.126$   $\chi^2/\text{NDF}: 711.1/29$

All:  $2.789 \pm 0.088$   $\chi^2/\text{NDF}: 1339.9/59$

- sign  $2.652 \pm 0.122$   $\chi^2/\text{NDF}: 626.2/29$

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:  $-63.235 \pm 0.199$   $\chi^2/\text{NDF}$ : 1602.9/12

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}$ : 441.0/17

Left In:  $-61.287 \pm 0.190$   $\chi^2/\text{NDF}$ : 2453.4/11

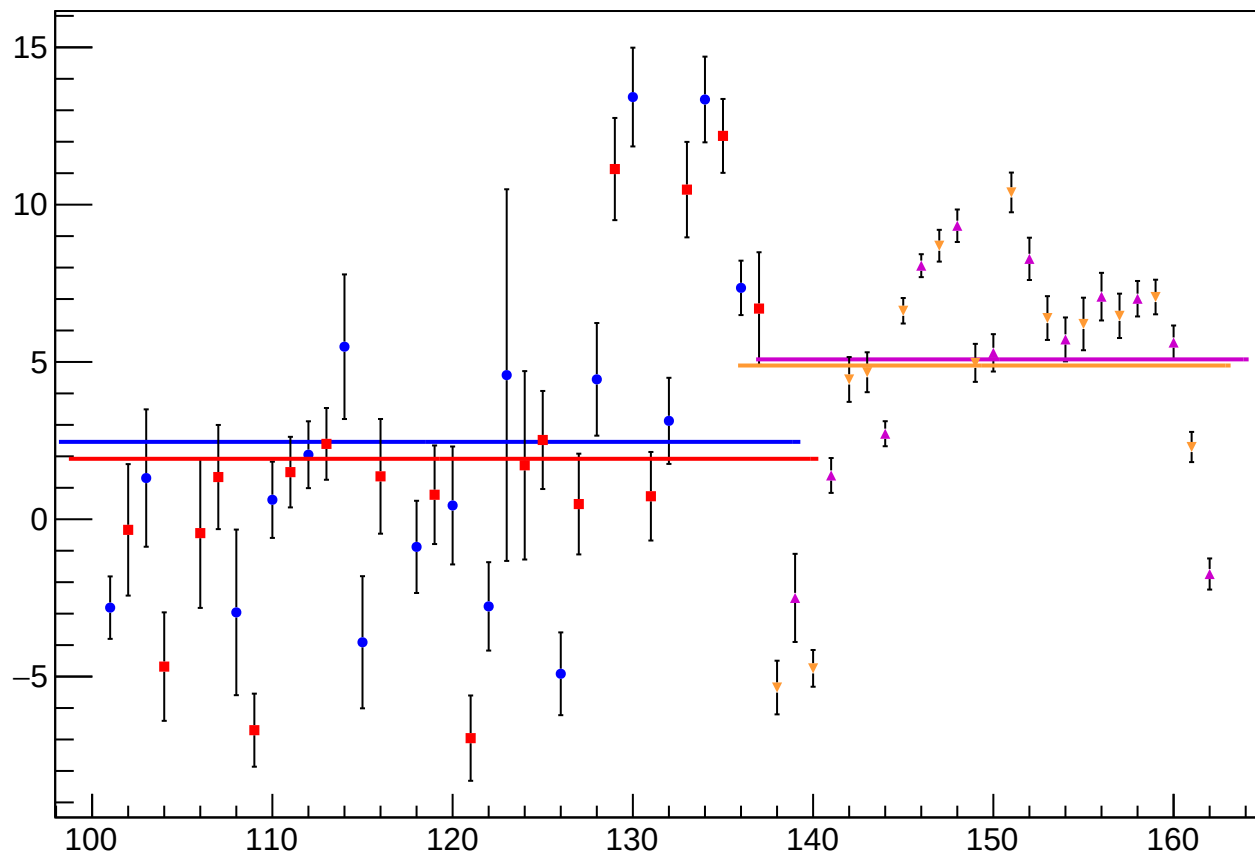
+ sign  $-62.420 \pm 0.187$   $\chi^2/\text{NDF}$ : 2331.2/29

All:  $-61.605 \pm 0.129$   $\chi^2/\text{NDF}$ : 5307.5/59

- sign  $-60.860 \pm 0.179$   $\chi^2/\text{NDF}$ : 2940.0/29



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:  $4.887 \pm 0.164$   $\chi^2/\text{NDF}$ : 624.4/12

Right Out:  $1.922 \pm 0.355$   $\chi^2/\text{NDF}$ : 265.1/17

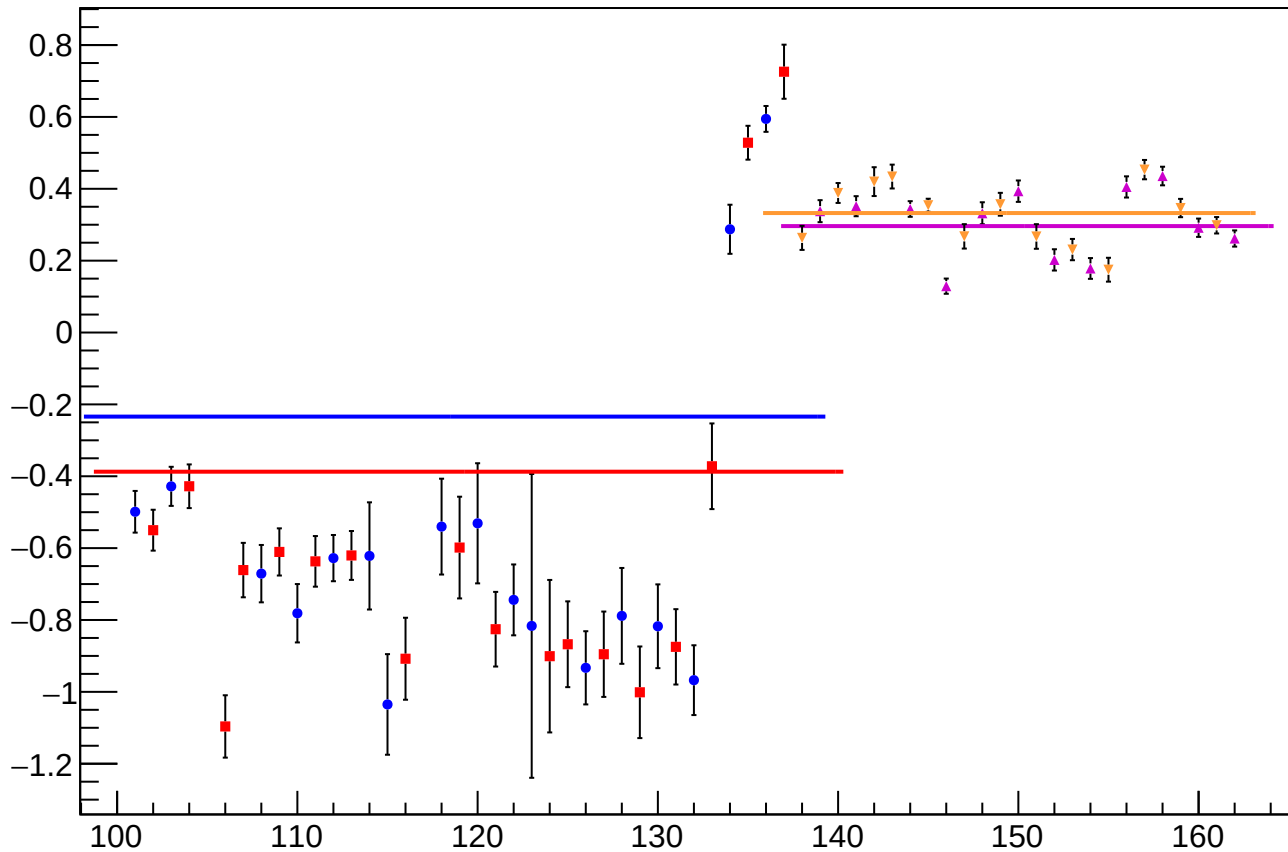
Left In:  $5.082 \pm 0.156$   $\chi^2/\text{NDF}$ : 476.5/11

+ sign  $4.442 \pm 0.148$   $\chi^2/\text{NDF}$ : 908.4/29

All:  $4.507 \pm 0.103$   $\chi^2/\text{NDF}$ : 1716.7/59

- sign  $4.568 \pm 0.143$   $\chi^2/\text{NDF}$ : 807.9/29

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:  $0.333 \pm 0.008$   $\chi^2/\text{NDF}$ : 88.8/12

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

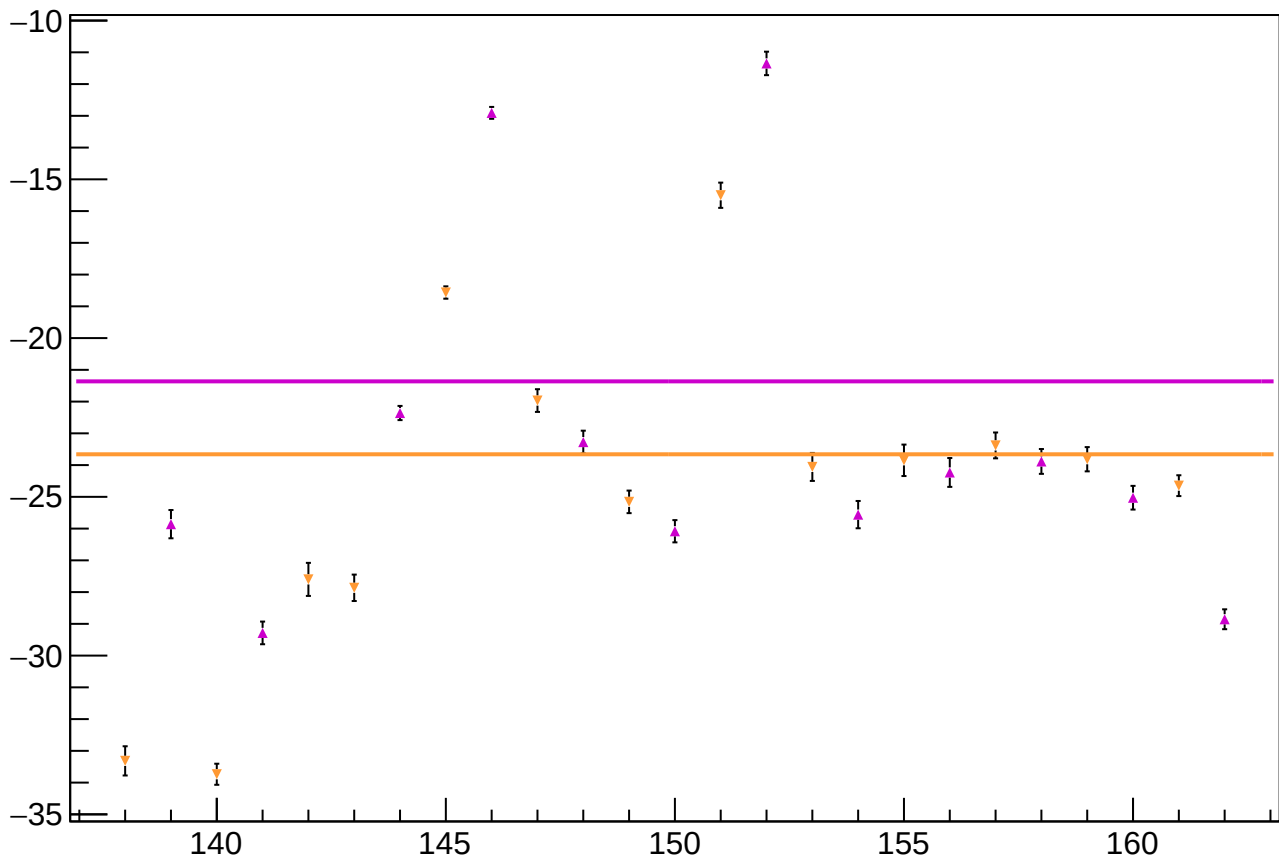
Left In:  $0.296 \pm 0.008$   $\chi^2/\text{NDF}$ : 156.7/11

+ sign  $0.250 \pm 0.007$   $\chi^2/\text{NDF}$ : 1814.4/29

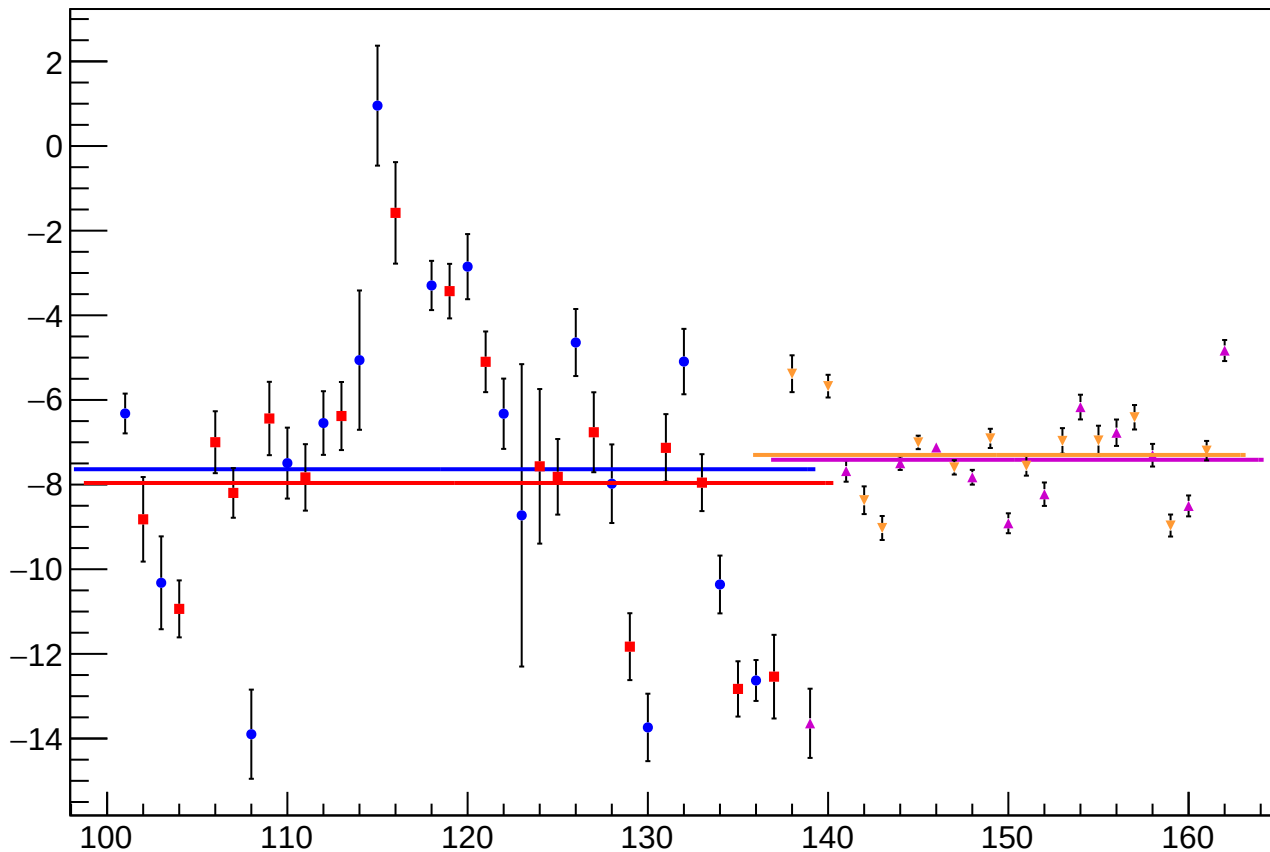
All:  $0.225 \pm 0.005$   $\chi^2/\text{NDF}$ : 3955.5/59

- sign  $0.202 \pm 0.007$   $\chi^2/\text{NDF}$ : 2119.1/29

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



# 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:  $-7.299 \pm 0.068$   $\chi^2/\text{NDF}$ : 167.5/12

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

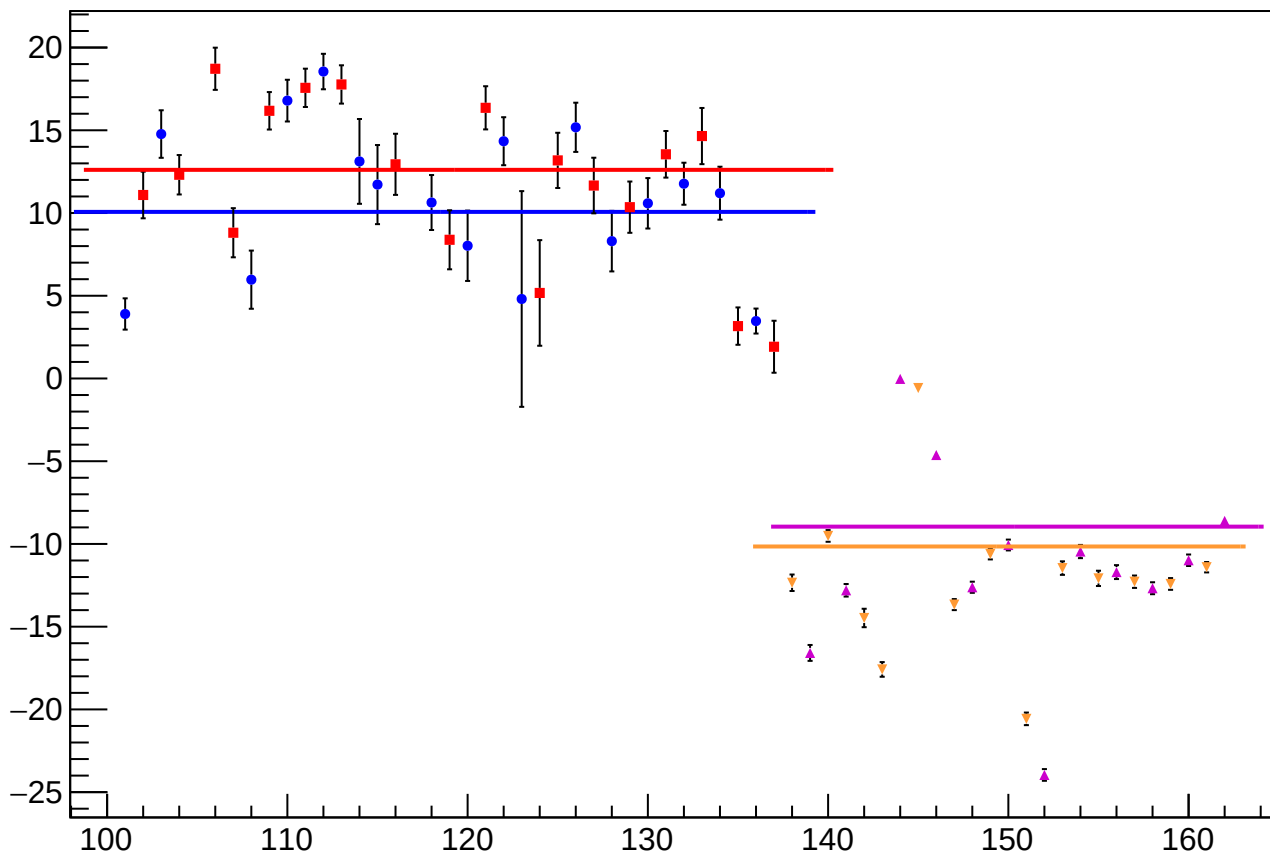
Left In:  $-7.414 \pm 0.062$   $\chi^2/\text{NDF}$ : 270.1/11

+ sign  $-7.339 \pm 0.064$   $\chi^2/\text{NDF}$ : 564.4/29

All:  $-7.409 \pm 0.043$   $\chi^2/\text{NDF}$ : 1071.2/59

- sign  $-7.468 \pm 0.059$   $\chi^2/\text{NDF}$ : 504.5/29

# 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:  $-10.154 \pm 0.098$   $\chi^2/\text{NDF}$ : 3502.1/12

Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}$ : 219.0/17

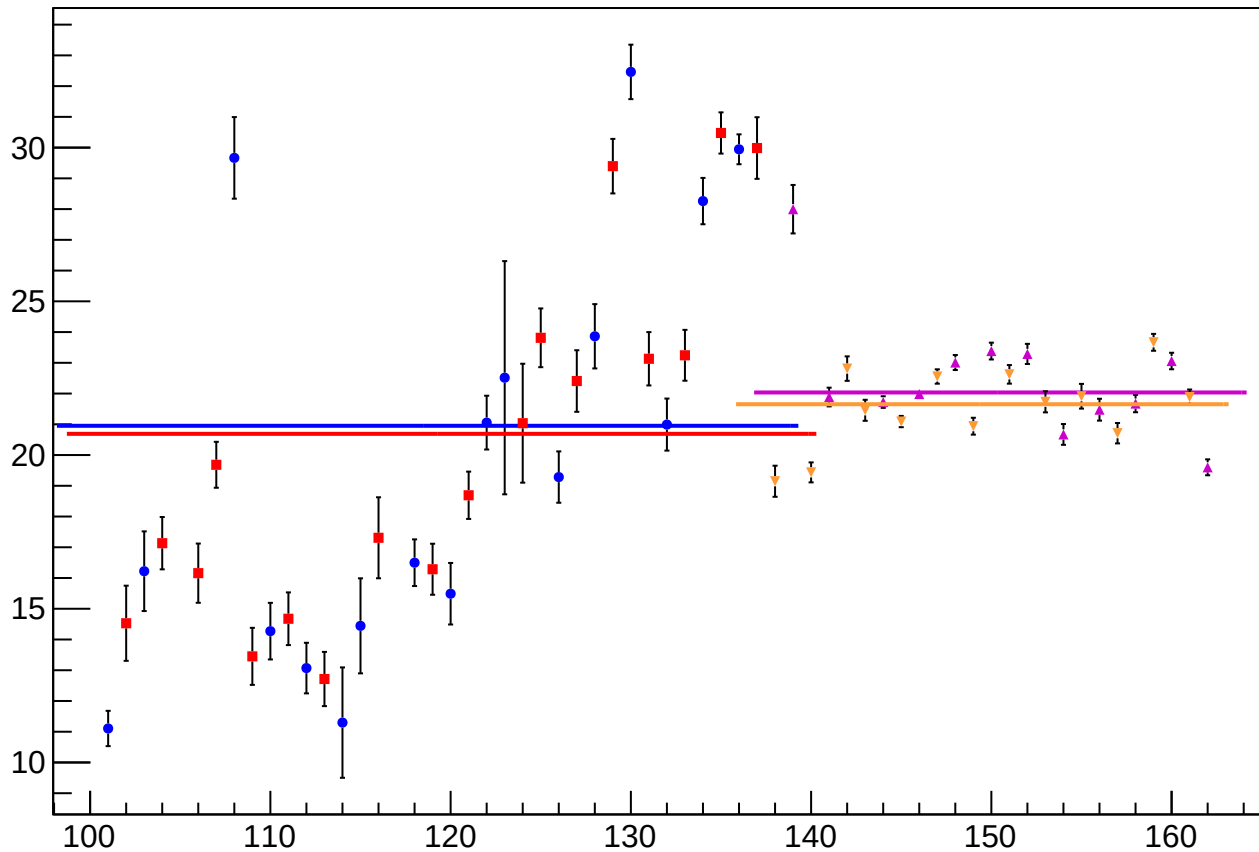
Left In:  $-8.954 \pm 0.090$   $\chi^2/\text{NDF}$ : 4447.5/11

+ sign  $-8.589 \pm 0.094$   $\chi^2/\text{NDF}$ : 7069.6/29

All:  $-8.000 \pm 0.064$   $\chi^2/\text{NDF}$ : 15716.7/59

- sign  $-7.498 \pm 0.087$   $\chi^2/\text{NDF}$ : 8574.1/29

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $20.951 \pm 0.210$   $\chi^2/\text{NDF}$ : 1222.8/16

Left Out:  $21.653 \pm 0.081$   $\chi^2/\text{NDF}$ : 184.6/12

Right Out:  $20.690 \pm 0.213$   $\chi^2/\text{NDF}$ : 726.9/17

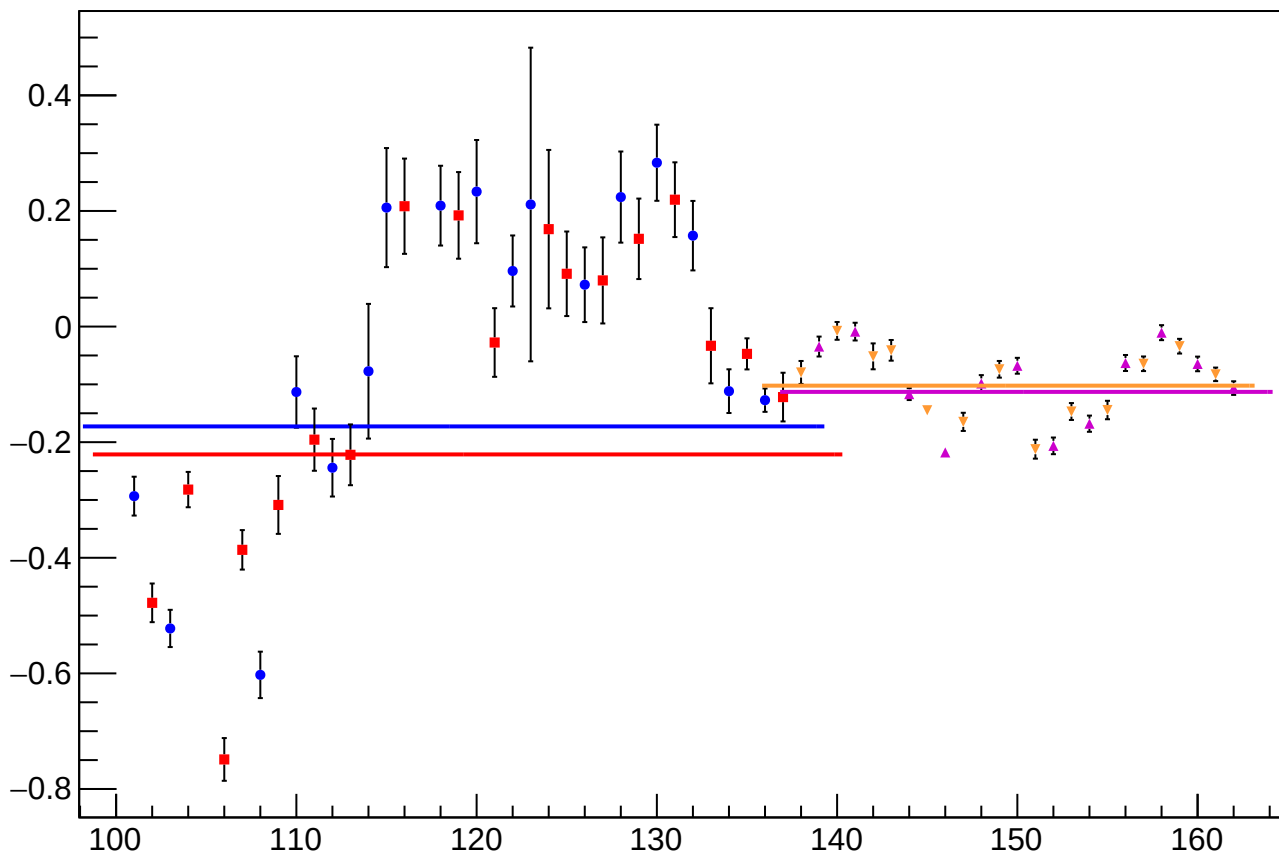
Left In:  $22.035 \pm 0.074$   $\chi^2/\text{NDF}$ : 238.2/11

+ sign  $21.563 \pm 0.075$   $\chi^2/\text{NDF}$ : 1417.1/29

All:  $21.739 \pm 0.051$   $\chi^2/\text{NDF}$ : 2428.2/59

- sign  $21.891 \pm 0.070$   $\chi^2/\text{NDF}$ : 1000.8/29

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.173 \pm 0.011$   $\chi^2/\text{NDF}$ : 460.3/16

Left Out:  $-0.102 \pm 0.004$   $\chi^2/\text{NDF}$ : 205.3/12

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}$ : 535.1/17

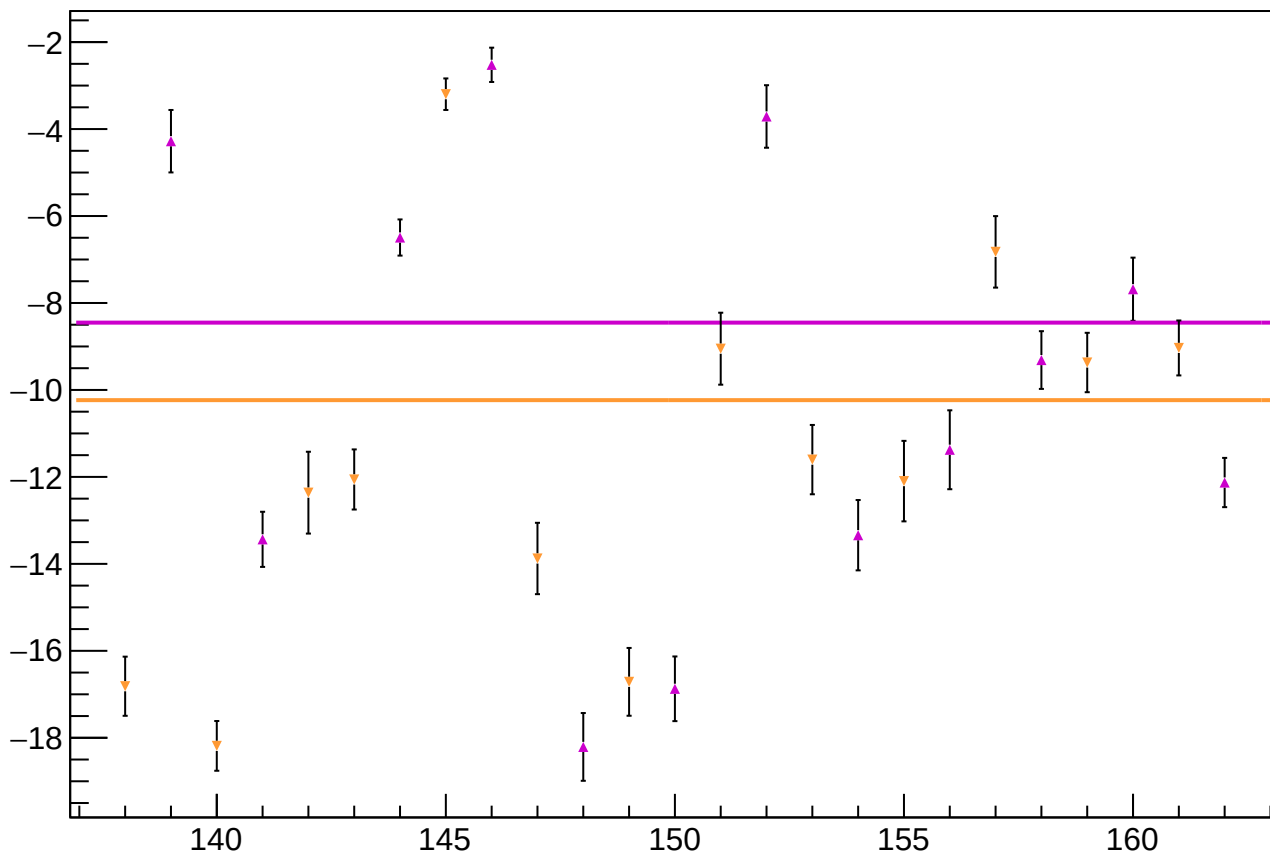
Left In:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}$ : 380.3/11

+ sign  $-0.110 \pm 0.004$   $\chi^2/\text{NDF}$ : 701.1/29

All:  $-0.117 \pm 0.002$   $\chi^2/\text{NDF}$ : 1712.2/59

- sign  $-0.124 \pm 0.003$   $\chi^2/\text{NDF}$ : 1003.2/29

# reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.235+/-0.184  $\chi^2/\text{NDF}$ : 795.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -8.452+/-0.177  $\chi^2/\text{NDF}$ : 764.0/11

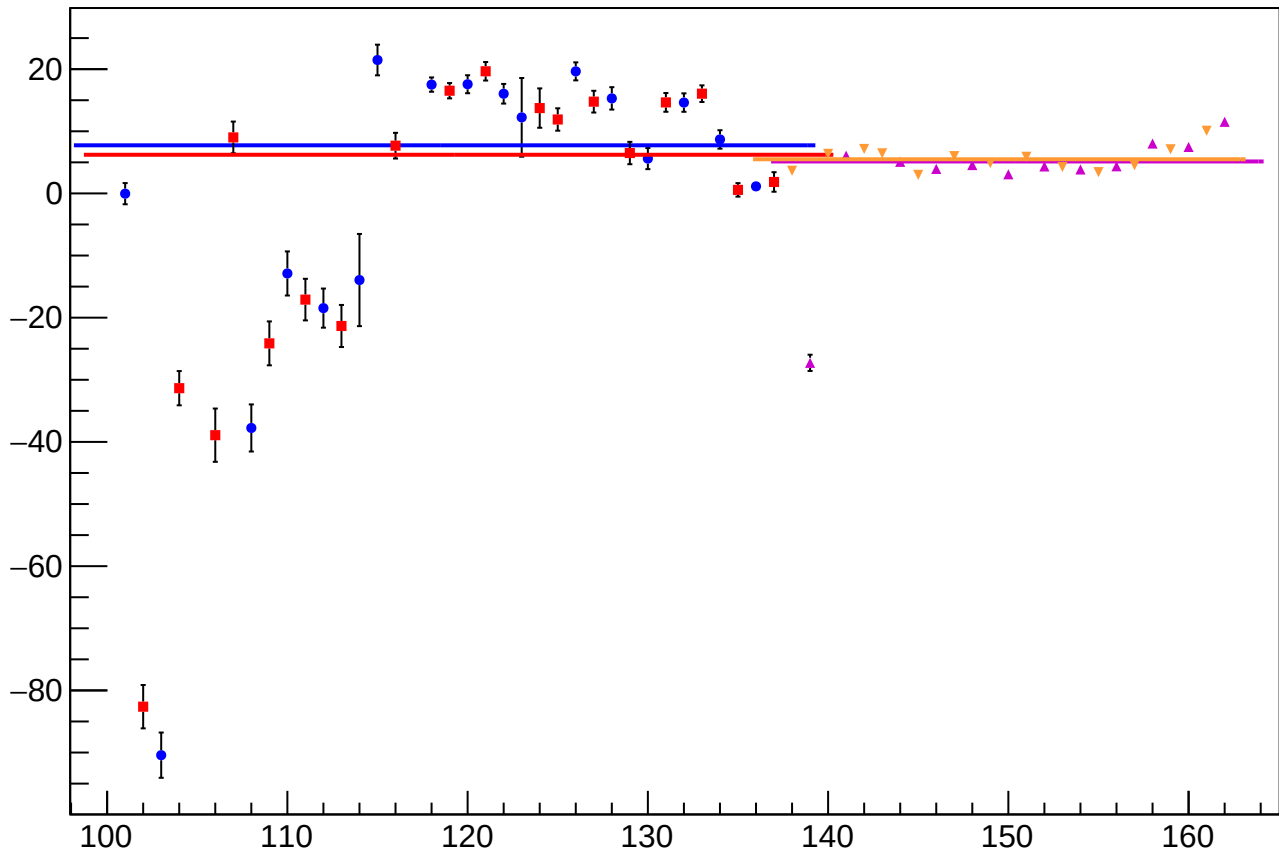
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.306+/-0.127  $\chi^2/\text{NDF}$ : 1608.3/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.742 \pm 0.403$   $\chi^2/\text{NDF}: 1358.9/16$

Left Out:  $5.497 \pm 0.129$   $\chi^2/\text{NDF}: 240.7/12$

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}: 1445.9/17$

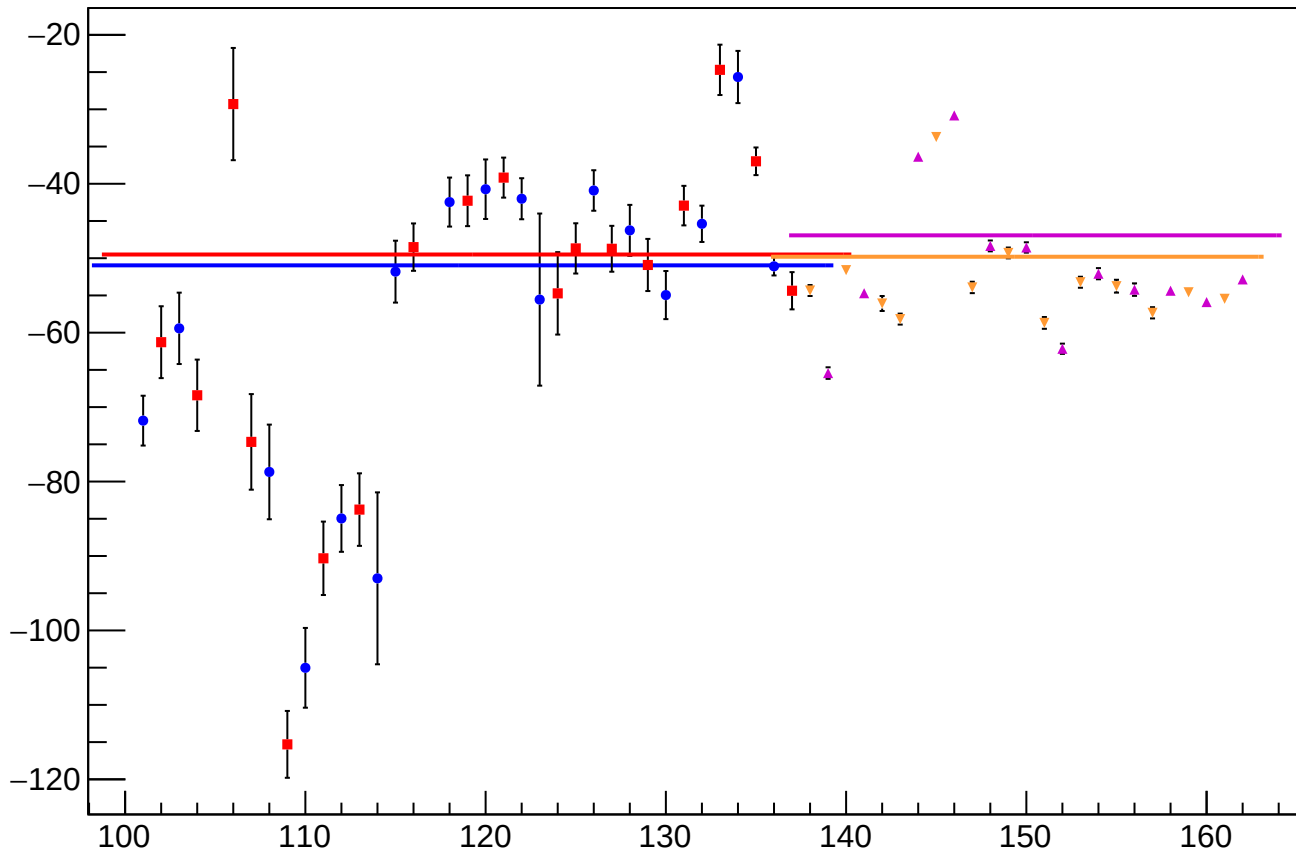
Left In:  $5.143 \pm 0.122$   $\chi^2/\text{NDF}: 934.3/11$

+ sign  $5.708 \pm 0.123$   $\chi^2/\text{NDF}: 1627.7/29$

All:  $5.453 \pm 0.085$   $\chi^2/\text{NDF}: 4021.8/59$

- sign  $5.222 \pm 0.118$   $\chi^2/\text{NDF}: 2386.0/29$

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: -49.802 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 2377.9/12

Right Out: -49.502 $\pm$ 0.798  $\chi^2/\text{NDF}$ : 506.4/17

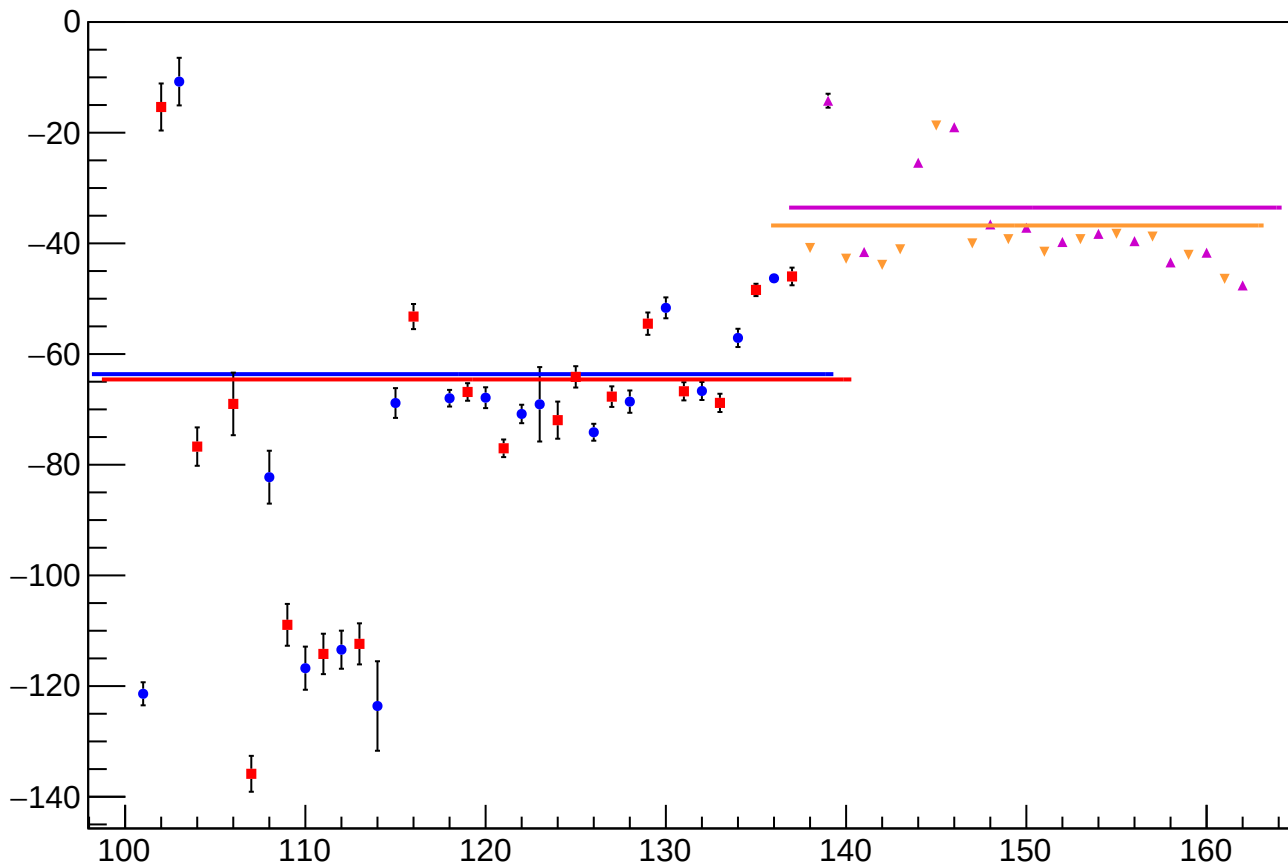
Left In: -46.929 $\pm$ 0.173  $\chi^2/\text{NDF}$ : 4123.1/11

+ sign -49.870 $\pm$ 0.179  $\chi^2/\text{NDF}$ : 2712.2/29

All: -48.379 $\pm$ 0.123  $\chi^2/\text{NDF}$ : 7482.9/59

- sign -47.045 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 4639.4/29

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:  $-36.766 \pm 0.153$   $\chi^2/\text{NDF}$ : 3896.2/12

Right Out:  $-64.590 \pm 0.482$   $\chi^2/\text{NDF}$ : 1594.3/17

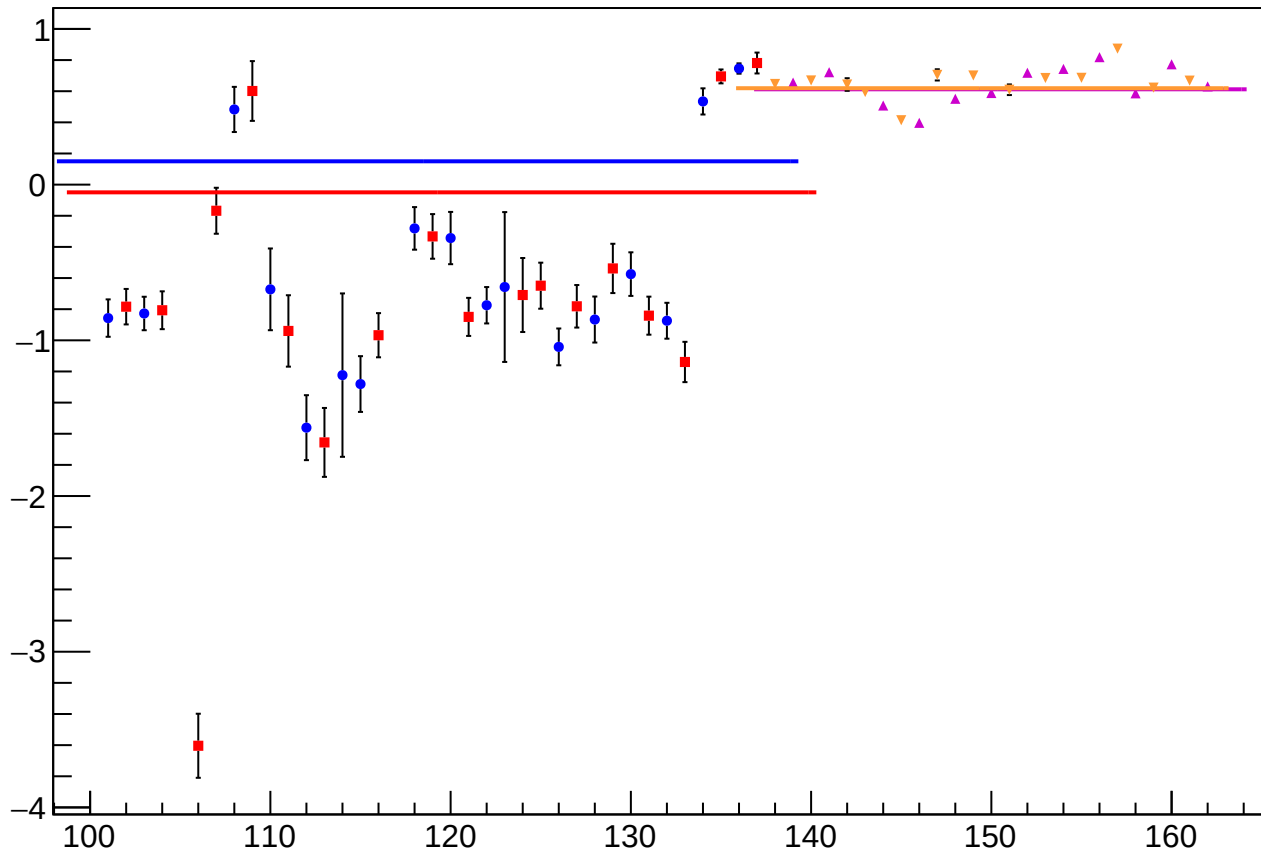
Left In:  $-33.537 \pm 0.144$   $\chi^2/\text{NDF}$ : 4974.8/11

+ sign  $-39.585 \pm 0.144$   $\chi^2/\text{NDF}$ : 9157.2/29

All:  $-37.755 \pm 0.100$   $\chi^2/\text{NDF}$ : 19841.5/59

- sign  $-36.083 \pm 0.138$   $\chi^2/\text{NDF}$ : 10376.9/29

# reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.150 $\pm$ 0.024  $\chi^2$ /NDF: 989.2/16

Left Out: 0.619 $\pm$ 0.007  $\chi^2$ /NDF: 316.1/12

Right Out: -0.050 $\pm$ 0.026  $\chi^2$ /NDF: 1154.0/17

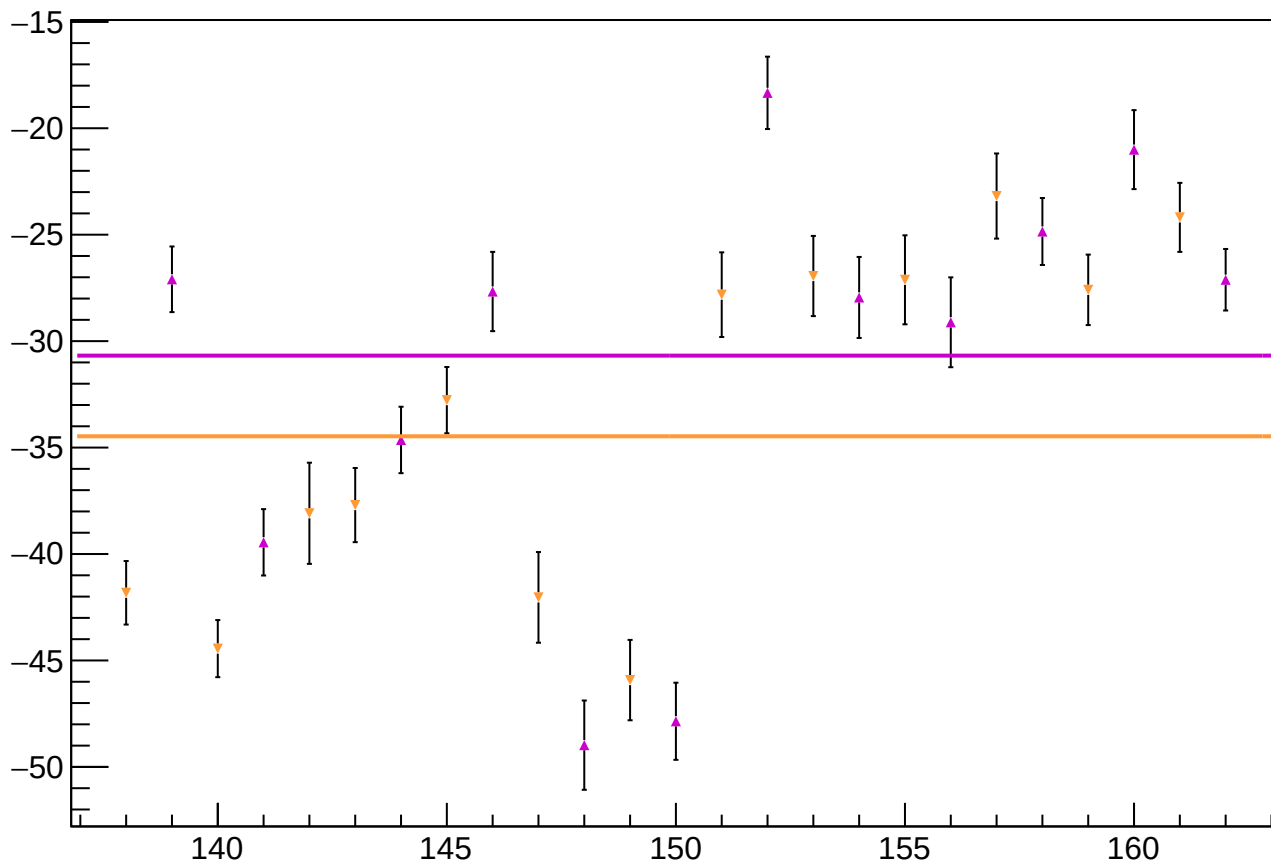
Left In: 0.612 $\pm$ 0.007  $\chi^2$ /NDF: 337.2/11

+ sign 0.580 $\pm$ 0.007  $\chi^2$ /NDF: 1656.5/29

All: 0.574 $\pm$ 0.005  $\chi^2$ /NDF: 3743.9/59

- sign 0.569 $\pm$ 0.007  $\chi^2$ /NDF: 2085.9/29

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.469+/-0.489  $\chi^2/\text{NDF}$ : 264.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

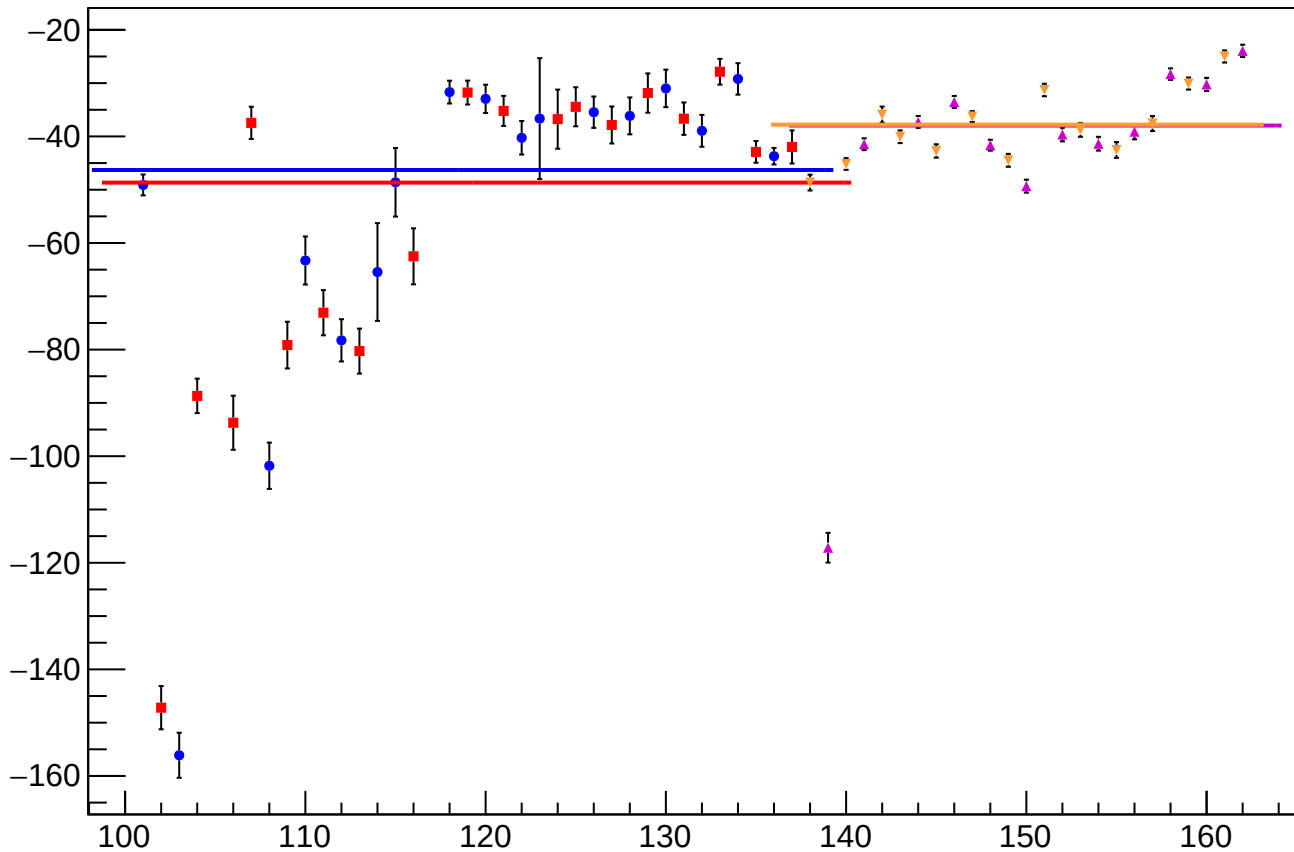
Left In: -30.680+/-0.495  $\chi^2/\text{NDF}$ : 314.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.597+/-0.348  $\chi^2/\text{NDF}$ : 609.0/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-46.301 \pm 0.723$   $\chi^2/\text{NDF}$ : 1084.0/16

Left Out:  $-37.797 \pm 0.342$   $\chi^2/\text{NDF}$ : 366.3/12

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}$ : 1212.3/17

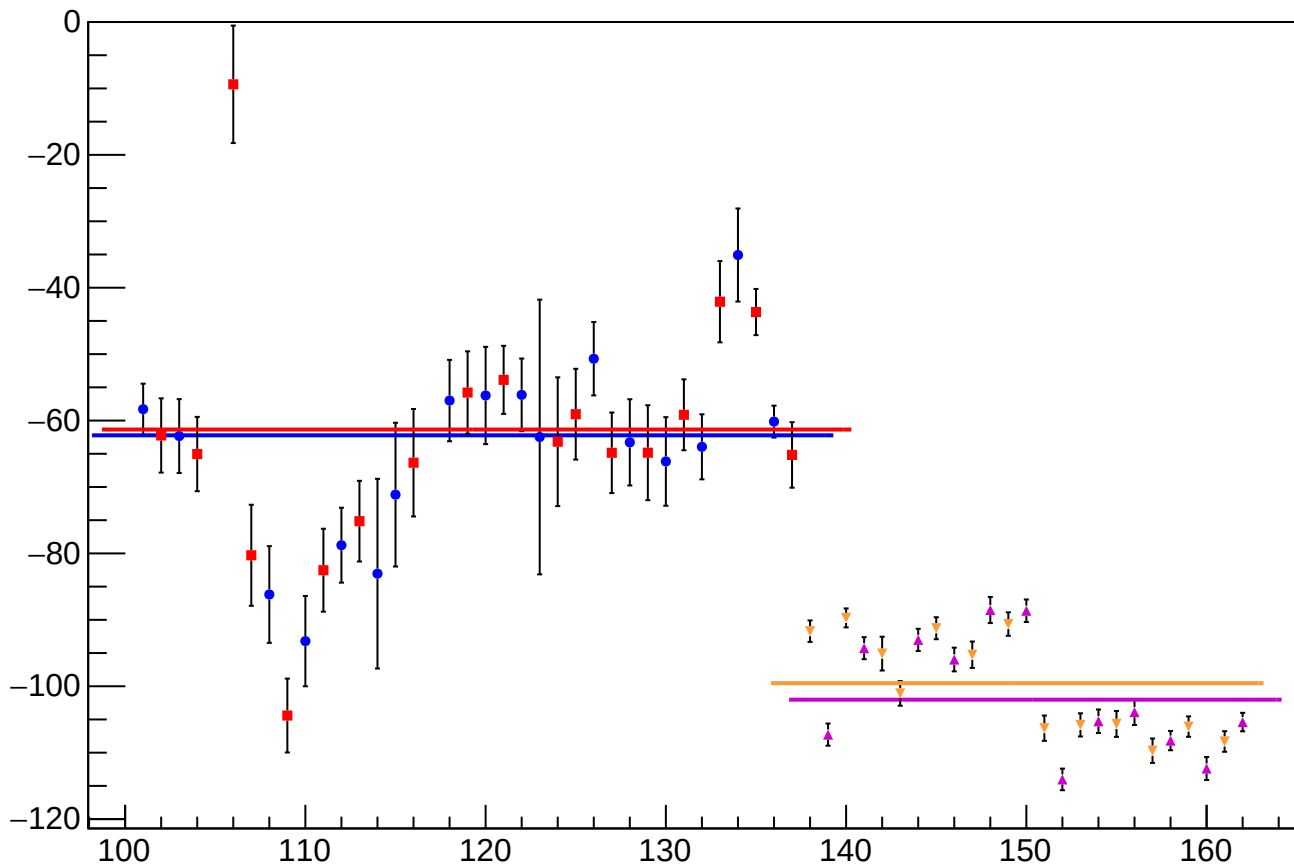
Left In:  $-37.961 \pm 0.352$   $\chi^2/\text{NDF}$ : 1204.2/11

+ sign  $-39.353 \pm 0.309$   $\chi^2/\text{NDF}$ : 1563.1/29

All:  $-39.587 \pm 0.222$   $\chi^2/\text{NDF}$ : 4143.0/59

- sign  $-39.837 \pm 0.320$   $\chi^2/\text{NDF}$ : 2578.7/29

# 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:  $-99.528 \pm 0.485$   $\chi^2/\text{NDF}$ : 245.8/12

Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}$ : 158.4/17

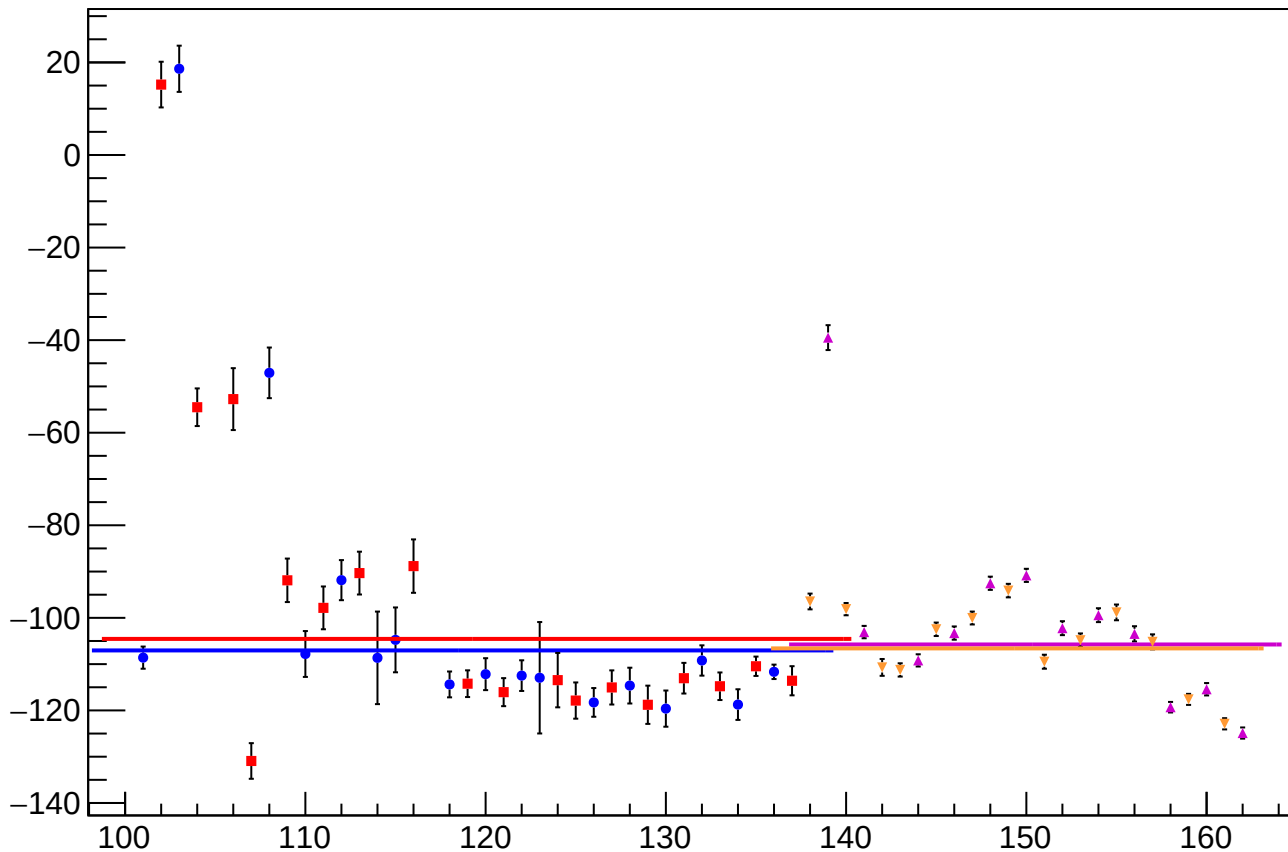
Left In:  $-102.018 \pm 0.483$   $\chi^2/\text{NDF}$ : 300.7/11

+ sign  $-95.047 \pm 0.455$   $\chi^2/\text{NDF}$ : 1024.9/29

All:  $-96.319 \pm 0.322$   $\chi^2/\text{NDF}$ : 2270.6/59

- sign  $-97.599 \pm 0.456$   $\chi^2/\text{NDF}$ : 1230.0/29

# 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:  $-106.602 \pm 0.403$   $\chi^2/\text{NDF}$ : 486.7/12

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

Left In:  $-105.753 \pm 0.408$   $\chi^2/\text{NDF}$ : 1288.7/11

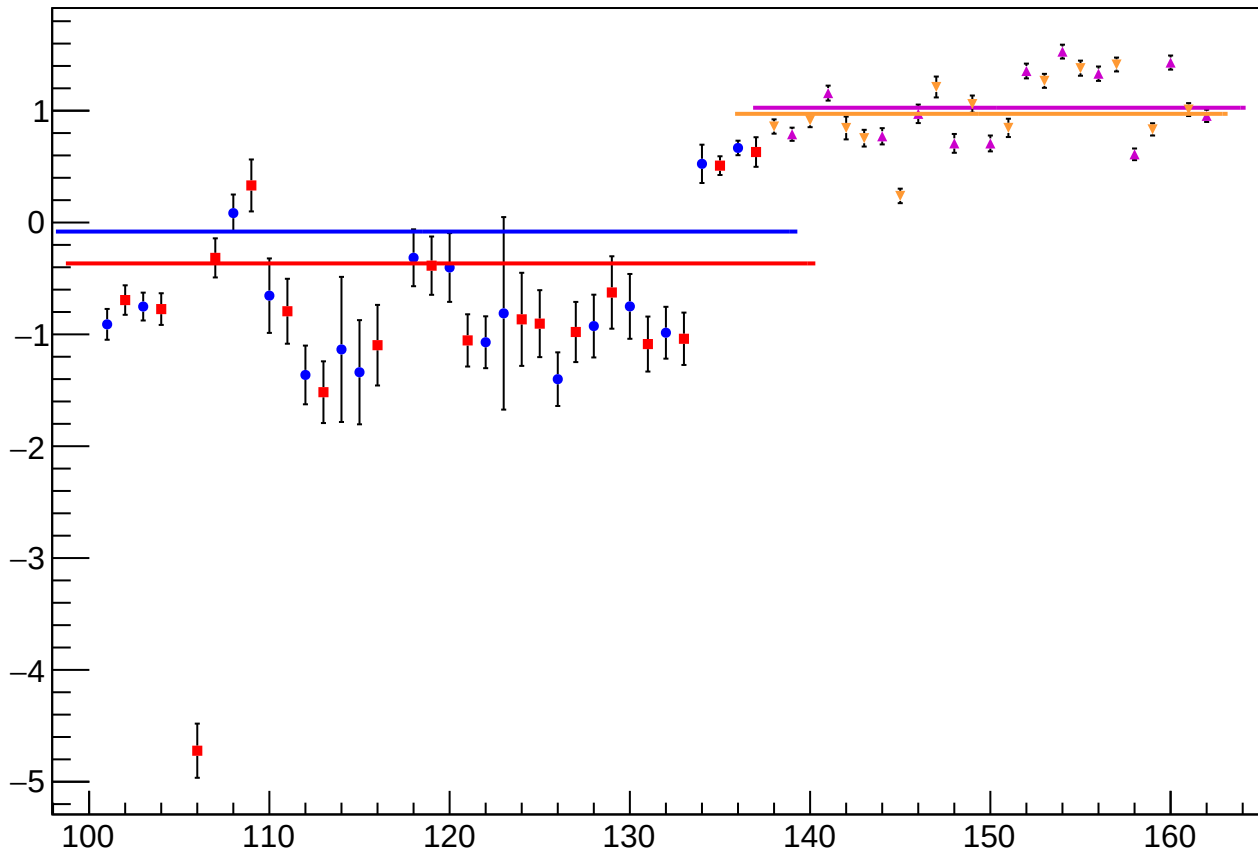
+ sign  $-106.689 \pm 0.361$   $\chi^2/\text{NDF}$ : 1314.8/29

All:  $-106.123 \pm 0.258$   $\chi^2/\text{NDF}$ : 3577.5/59

- sign  $-105.533 \pm 0.369$   $\chi^2/\text{NDF}$ : 2257.7/29



# 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:  $0.972 \pm 0.019$   $\chi^2/\text{NDF}$ : 268.4/12

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

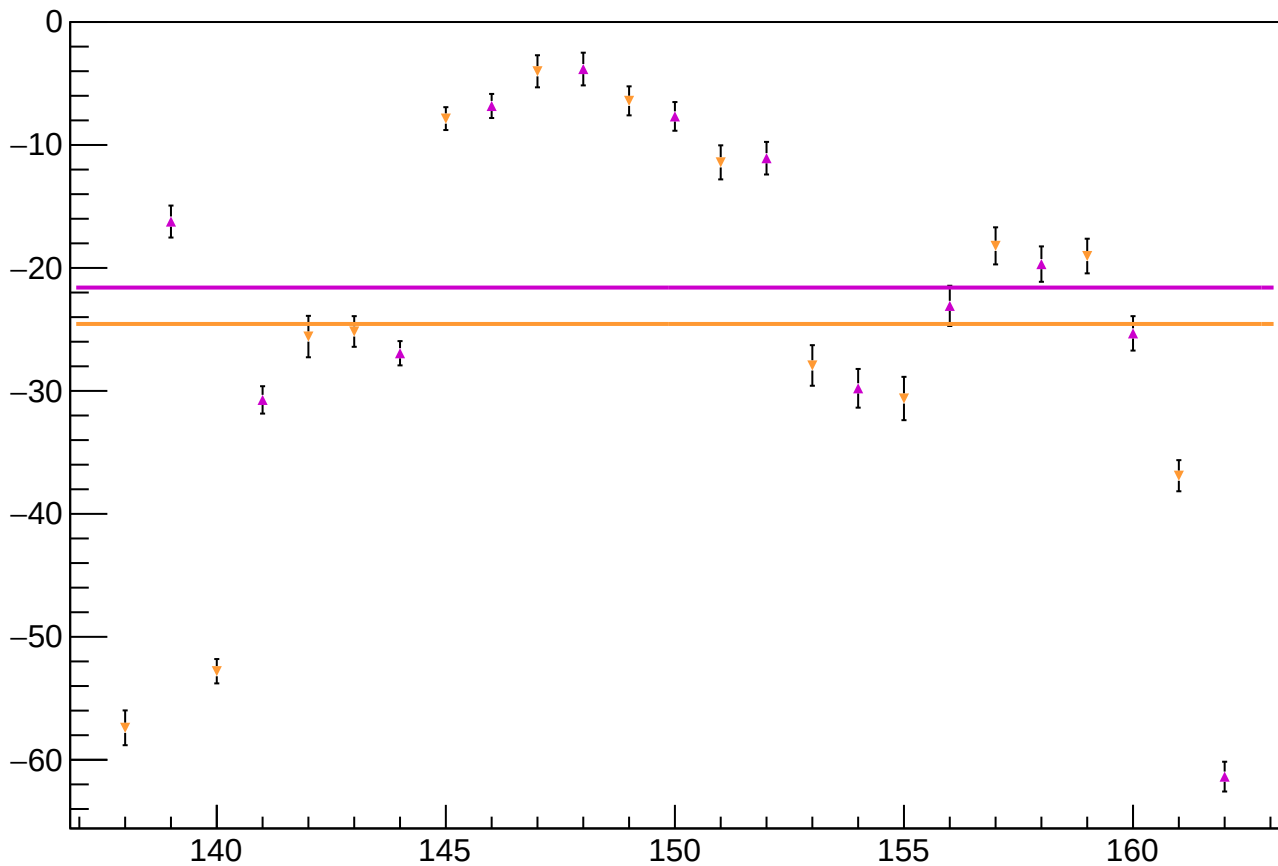
Left In:  $1.026 \pm 0.019$   $\chi^2/\text{NDF}$ : 286.3/11

+ sign  $0.797 \pm 0.017$   $\chi^2/\text{NDF}$ : 1116.2/29

All:  $0.805 \pm 0.012$   $\chi^2/\text{NDF}$ : 2823.7/59

- sign  $0.814 \pm 0.017$   $\chi^2/\text{NDF}$ : 1707.0/29

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: -24.555+/-0.359  $\chi^2/\text{NDF}$ : 2394.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

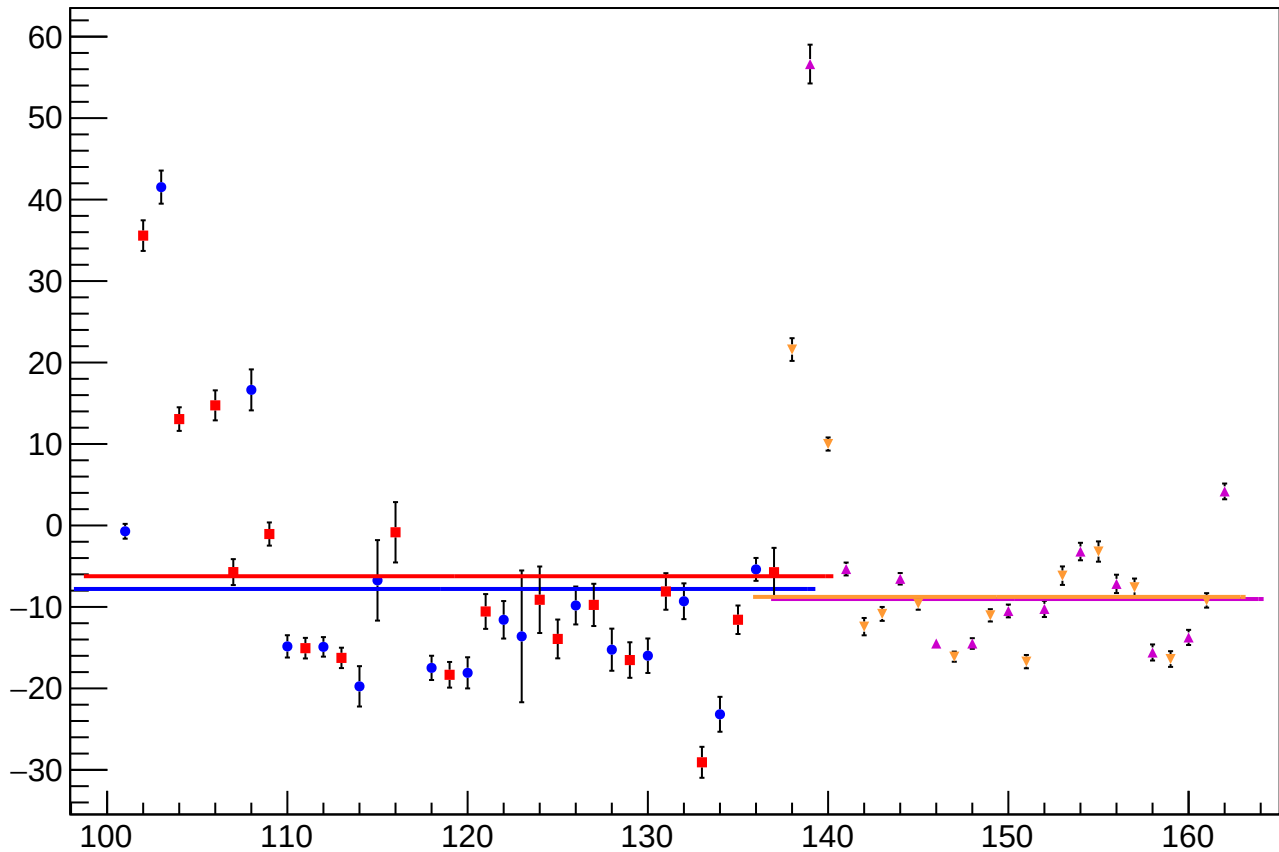
Left In: -21.596+/-0.358  $\chi^2/\text{NDF}$ : 1840.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.073+/-0.254  $\chi^2/\text{NDF}$ : 4268.4/24

- 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:  $-8.768 \pm 0.246$   $\chi^2/\text{NDF}$ : 1363.8/12

Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17

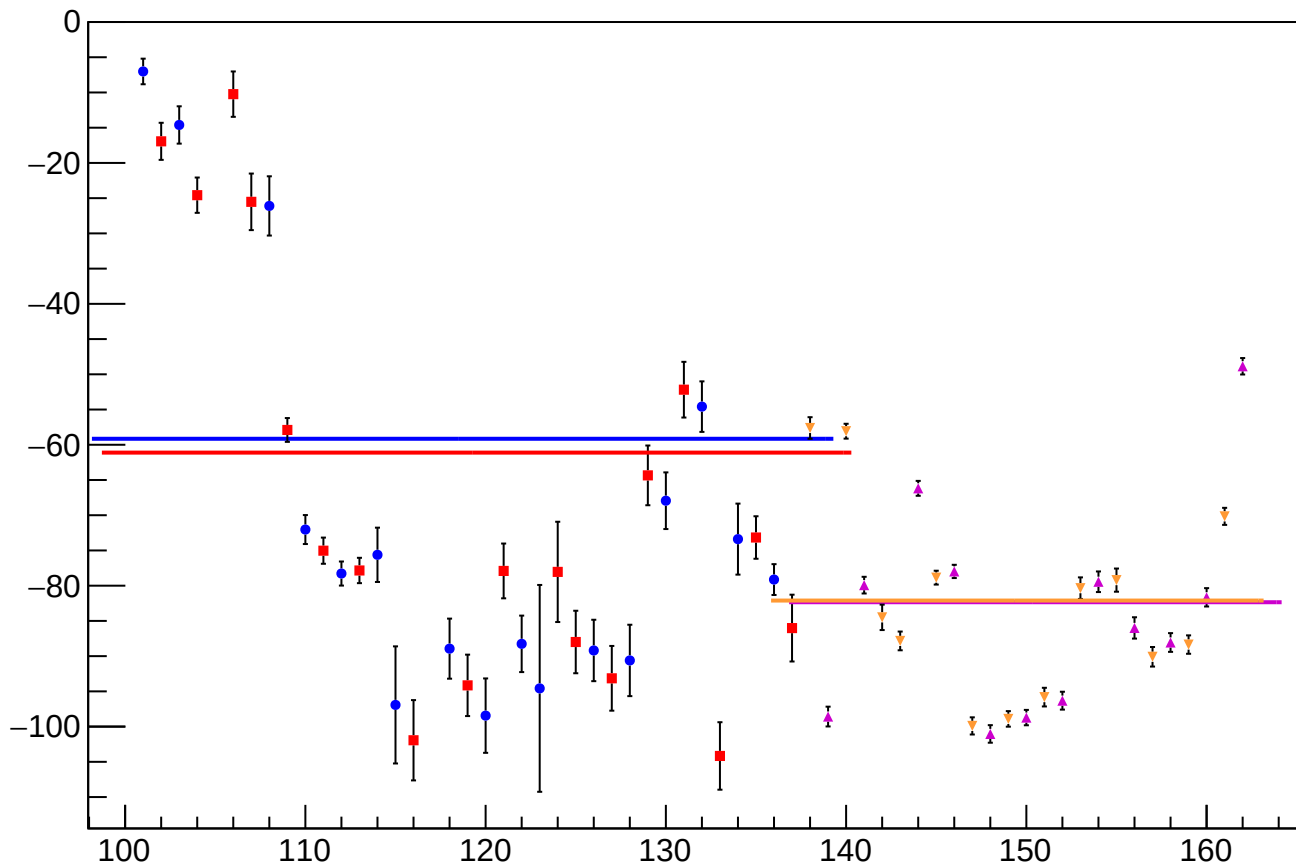
Left In:  $-9.029 \pm 0.248$   $\chi^2/\text{NDF}$ : 1238.0/11

+ sign  $-8.525 \pm 0.214$   $\chi^2/\text{NDF}$ : 2350.4/29

All:  $-8.429 \pm 0.151$   $\chi^2/\text{NDF}$ : 4803.6/59

- sign  $-8.332 \pm 0.214$   $\chi^2/\text{NDF}$ : 2452.8/29

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:  $-82.110 \pm 0.356$   $\chi^2/\text{NDF}$ : 1515.7/12

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF}$ : 1317.8/17

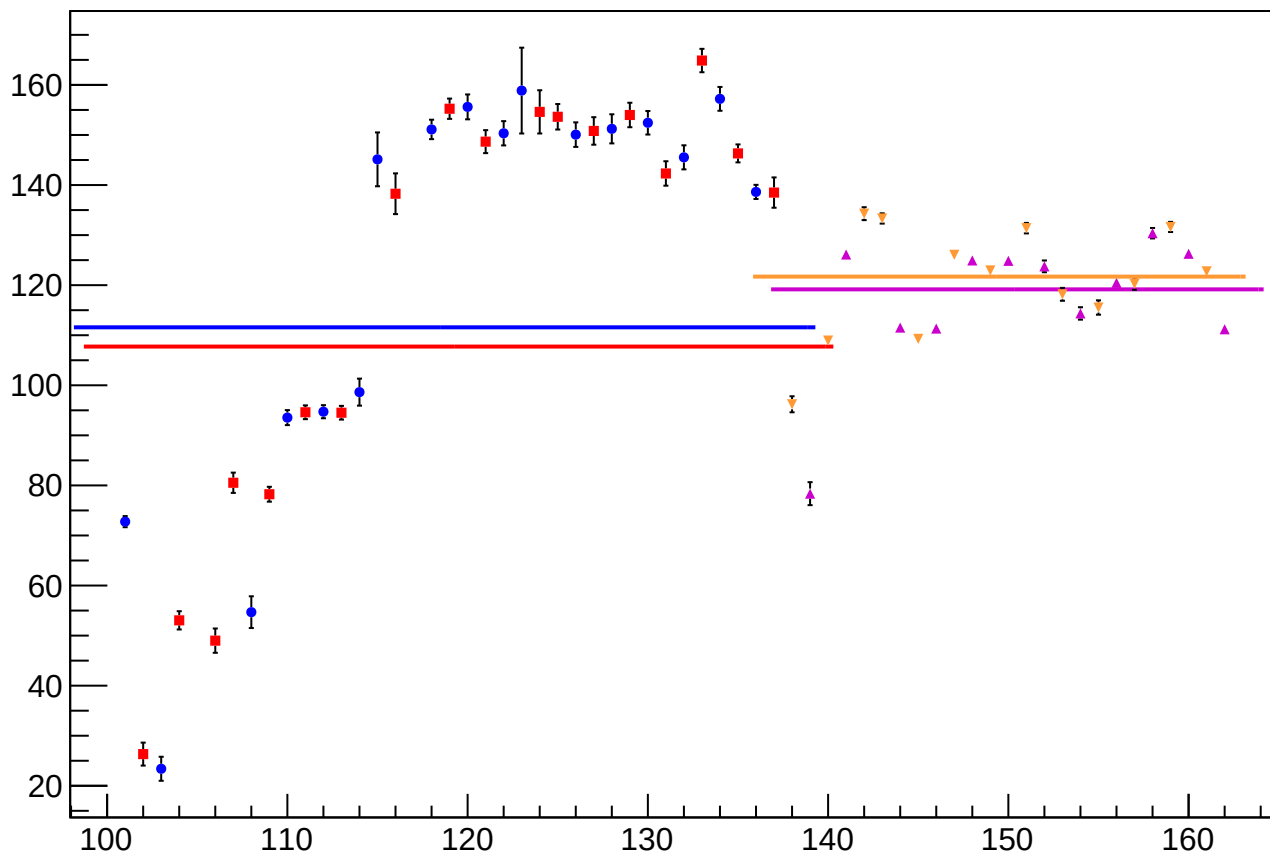
Left In:  $-82.349 \pm 0.350$   $\chi^2/\text{NDF}$ : 1817.1/11

+ sign  $-77.841 \pm 0.321$   $\chi^2/\text{NDF}$ : 4006.7/29

All:  $-78.008 \pm 0.225$   $\chi^2/\text{NDF}$ : 7865.2/59

- sign  $-78.167 \pm 0.314$   $\chi^2/\text{NDF}$ : 3858.0/29

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: 121.707 $\pm$ 0.294  $\chi^2$ /NDF:1085.4/12

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

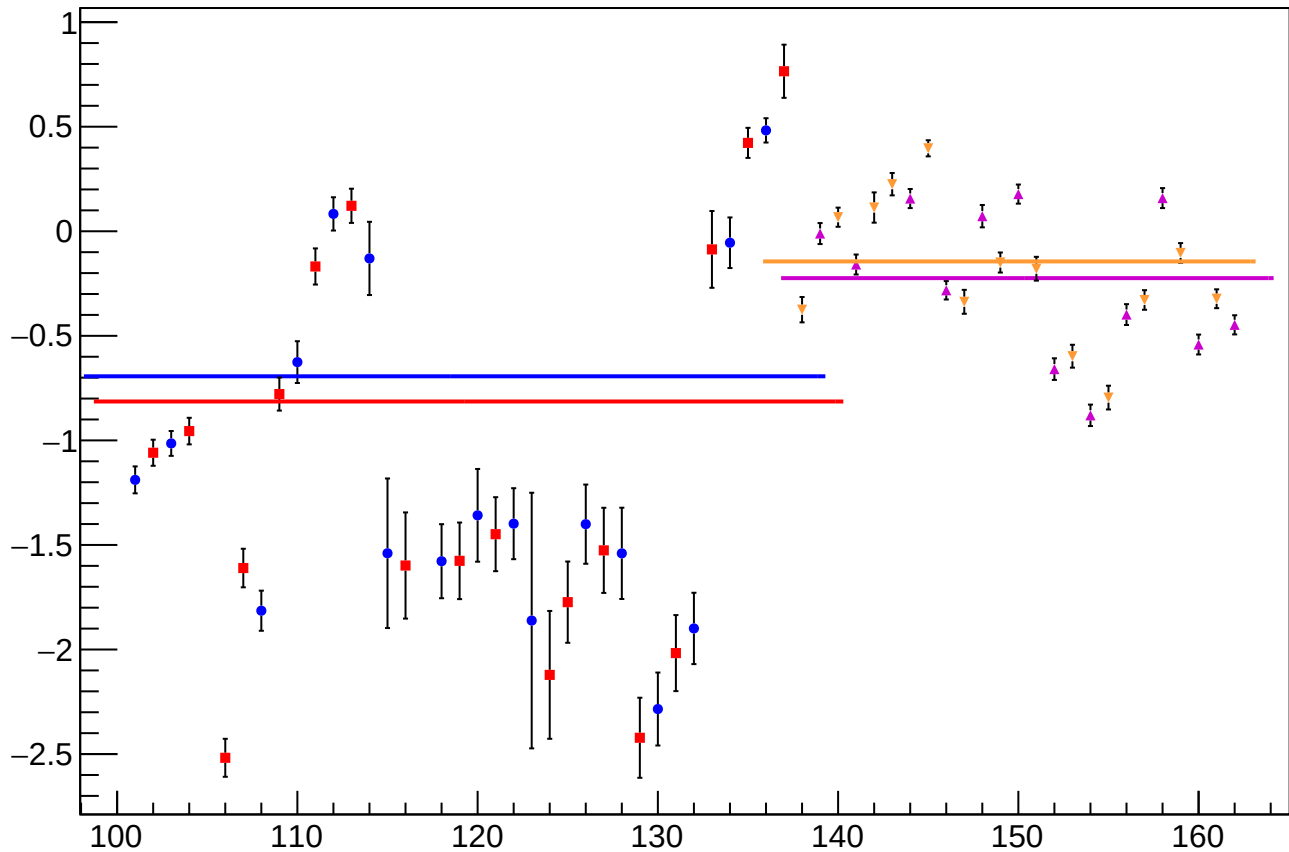
Left In: 119.161 $\pm$ 0.292  $\chi^2$ /NDF:896.0/11

+ sign 119.010 $\pm$ 0.252  $\chi^2$ /NDF: 7348.0/29

All: 117.575 $\pm$ 0.178  $\chi^2$ /NDF: 15547.7/59

- sign 116.148 $\pm$ 0.251  $\chi^2$ /NDF: 8134.9/29

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:  $-0.144 \pm 0.014$   $\chi^2/\text{NDF}$ : 536.1/12

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

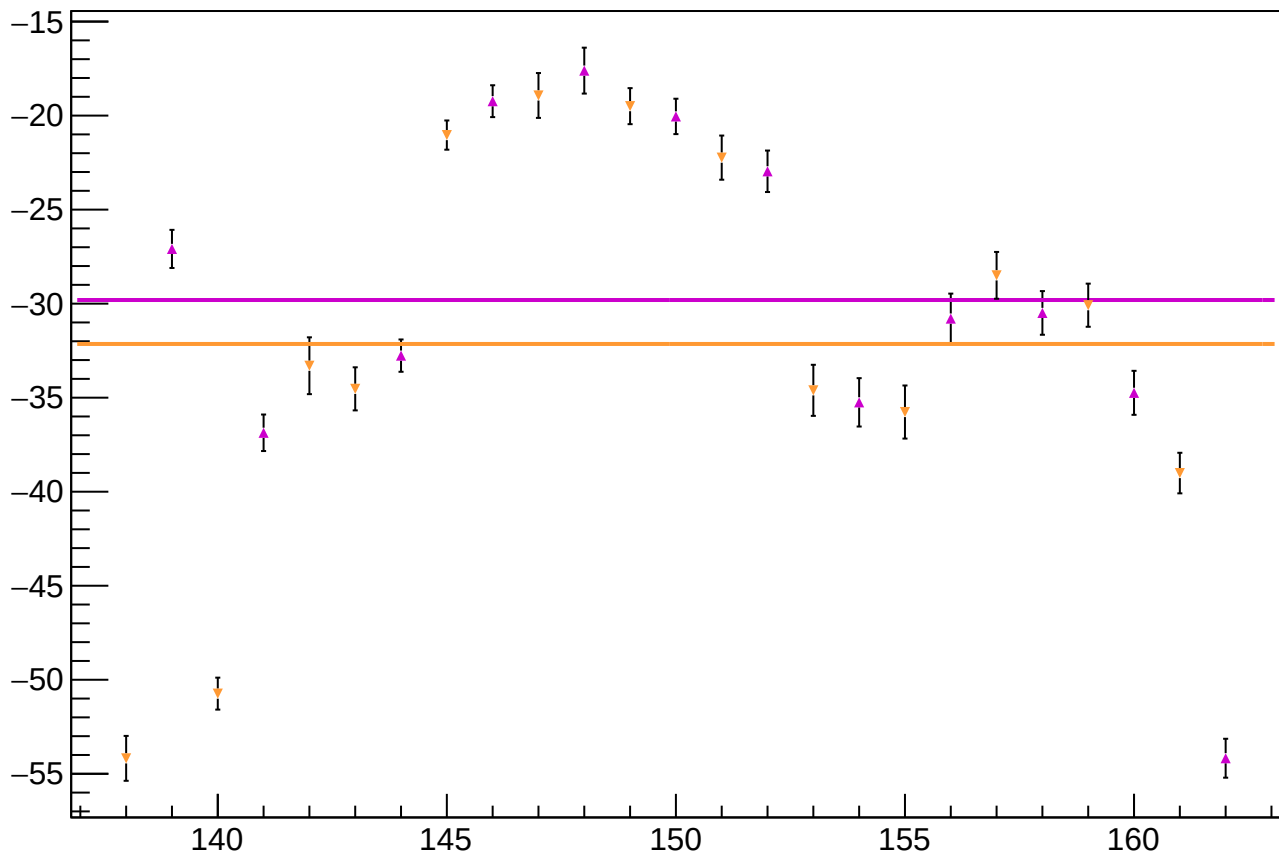
Left In:  $-0.224 \pm 0.014$   $\chi^2/\text{NDF}$ : 578.6/11

+ sign  $-0.270 \pm 0.012$   $\chi^2/\text{NDF}$ : 1876.2/29

All:  $-0.320 \pm 0.009$   $\chi^2/\text{NDF}$ : 4234.8/59

- sign  $-0.368 \pm 0.012$   $\chi^2/\text{NDF}$ : 2326.4/29

# 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: -32.144+/-0.305  $\chi^2/\text{NDF}$ : 1459.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

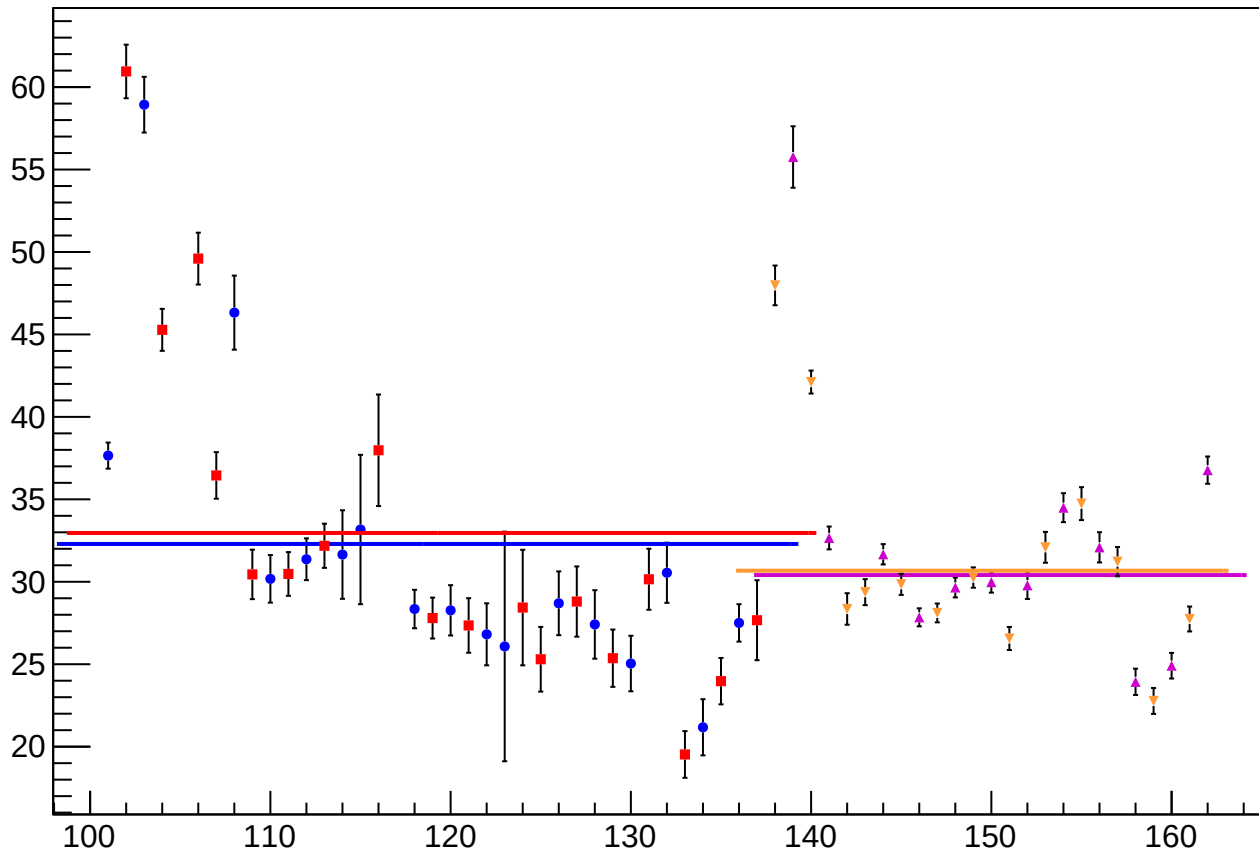
Left In: -29.806+/-0.302  $\chi^2/\text{NDF}$ : 1064.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -30.964+/-0.214  $\chi^2/\text{NDF}$ : 2553.9/24

- 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:  $30.673 \pm 0.211$   $\chi^2/\text{NDF}: 675.8/12$

Right Out:  $32.960 \pm 0.380$   $\chi^2/\text{NDF}: 724.0/17$

Left In:  $30.408 \pm 0.212$   $\chi^2/\text{NDF}: 424.1/11$

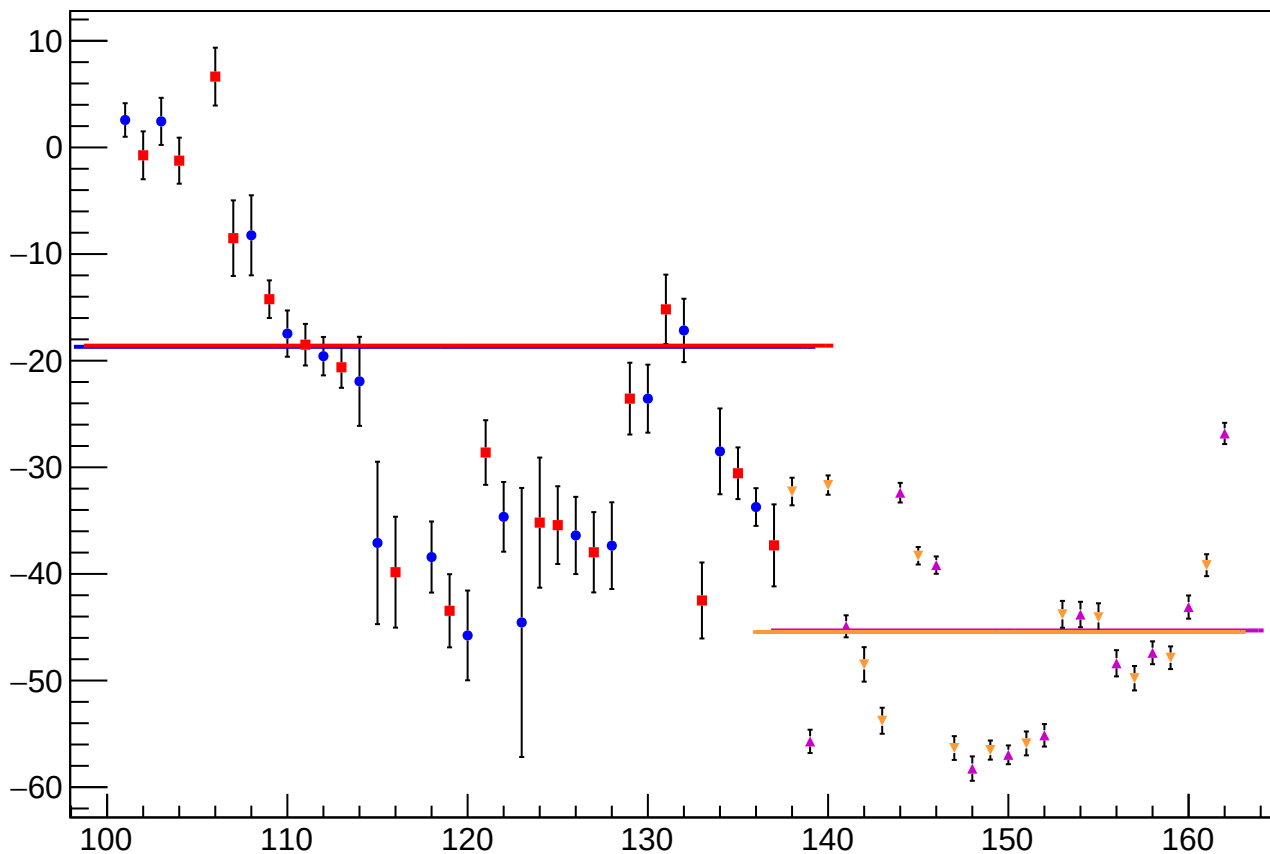
+ sign  $31.067 \pm 0.184$   $\chi^2/\text{NDF}: 1142.7/29$

All:  $31.041 \pm 0.131$   $\chi^2/\text{NDF}: 2325.2/59$

- sign  $31.015 \pm 0.185$   $\chi^2/\text{NDF}: 1182.5/29$



# 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:  $-45.447 \pm 0.301$   $\chi^2/\text{NDF}$ : 855.9/12

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}$ : 461.3/17

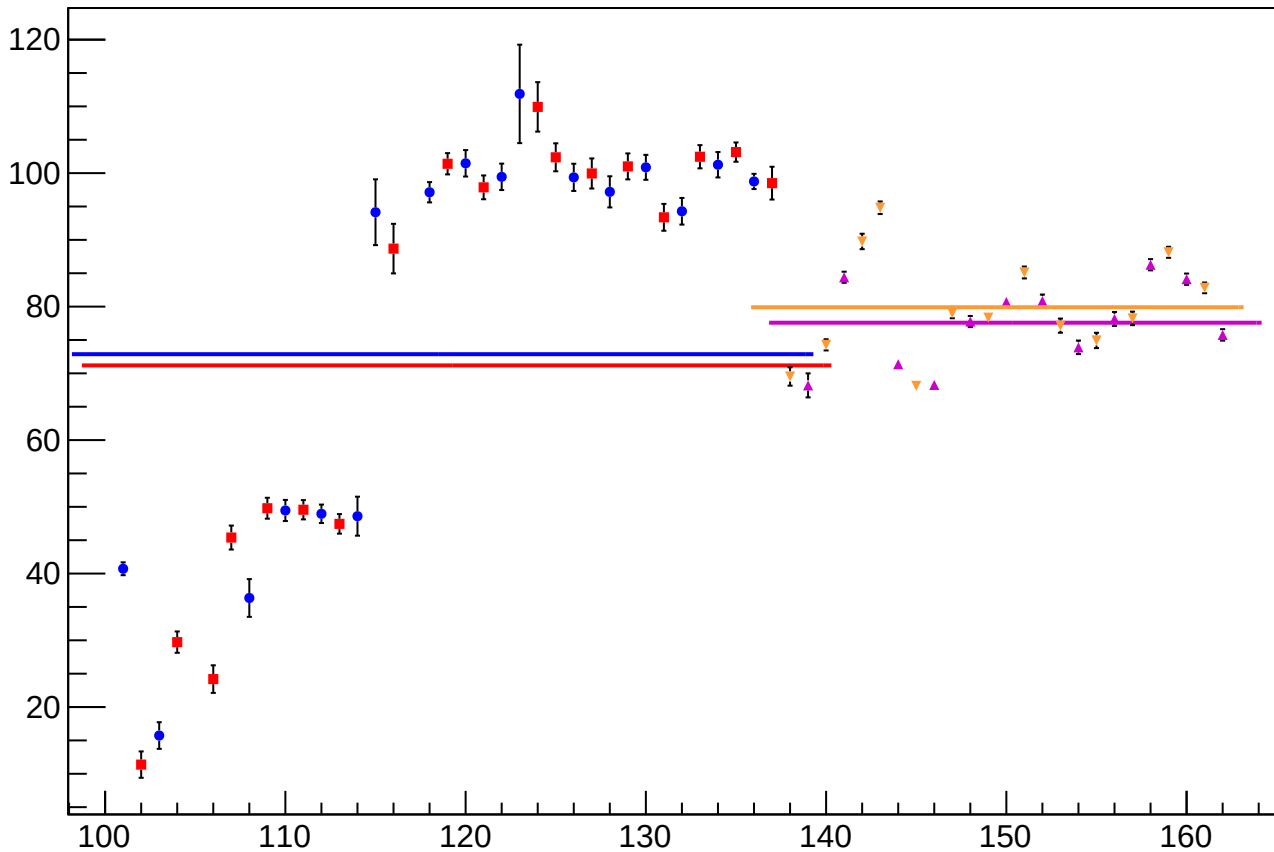
Left In:  $-45.303 \pm 0.295$   $\chi^2/\text{NDF}$ : 1094.5/11

+ sign  $-40.904 \pm 0.275$   $\chi^2/\text{NDF}$ : 2711.8/29

All:  $-40.806 \pm 0.192$   $\chi^2/\text{NDF}$ : 5677.3/59

- sign  $-40.714 \pm 0.268$   $\chi^2/\text{NDF}$ : 2965.2/29

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.870+/-0.427  $\chi^2/\text{NDF}$ : 4727.1/16

Left Out: 79.905+/-0.250  $\chi^2/\text{NDF}$ : 855.8/12

Right Out: 71.190+/-0.434  $\chi^2/\text{NDF}$ : 5375.1/17

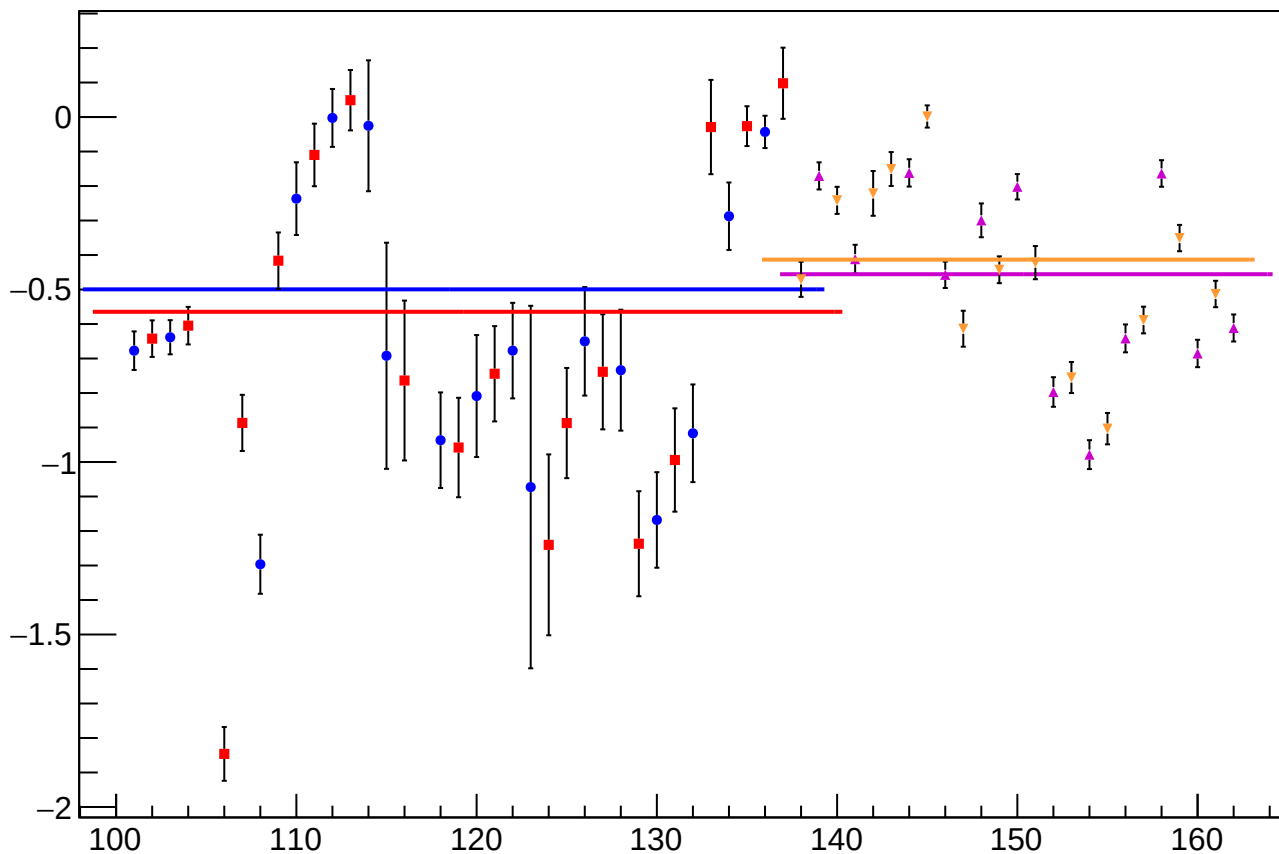
Left In: 77.588+/-0.248  $\chi^2/\text{NDF}$ : 570.4/11

+ sign 78.101+/-0.216  $\chi^2/\text{NDF}$ : 5785.1/29

All: 77.053+/-0.153  $\chi^2/\text{NDF}$ : 11941.3/59

- sign 76.009+/-0.216  $\chi^2/\text{NDF}$ : 6109.2/29

# 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:  $-0.413 \pm 0.012$   $\chi^2/\text{NDF}$ : 443.1/12

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

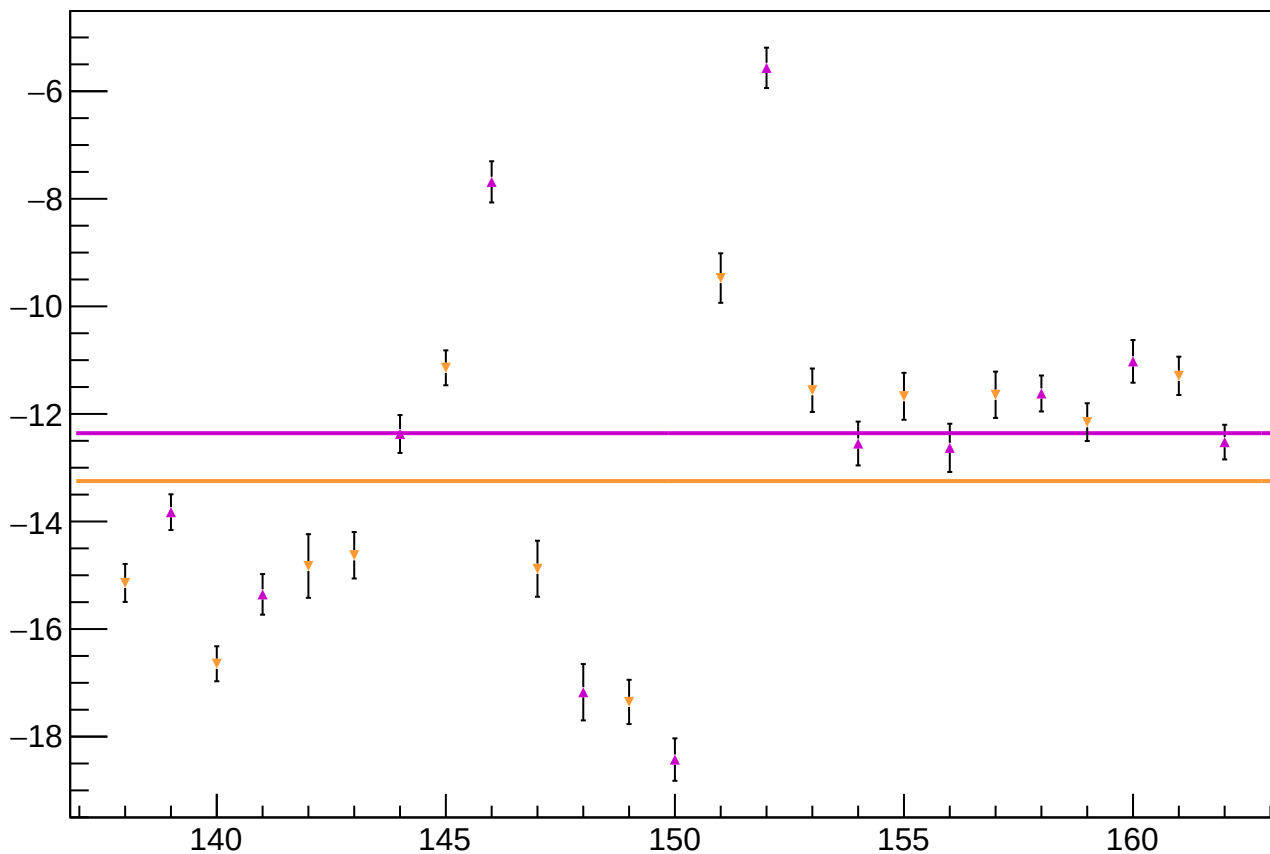
Left In:  $-0.456 \pm 0.012$   $\chi^2/\text{NDF}$ : 513.3/11

+ sign  $-0.432 \pm 0.010$   $\chi^2/\text{NDF}$ : 757.4/29

All:  $-0.457 \pm 0.007$   $\chi^2/\text{NDF}$ : 1860.6/59

- sign  $-0.480 \pm 0.010$   $\chi^2/\text{NDF}$ : 1092.5/29

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -13.248+/-0.110  $\chi^2/\text{NDF}$ : 457.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

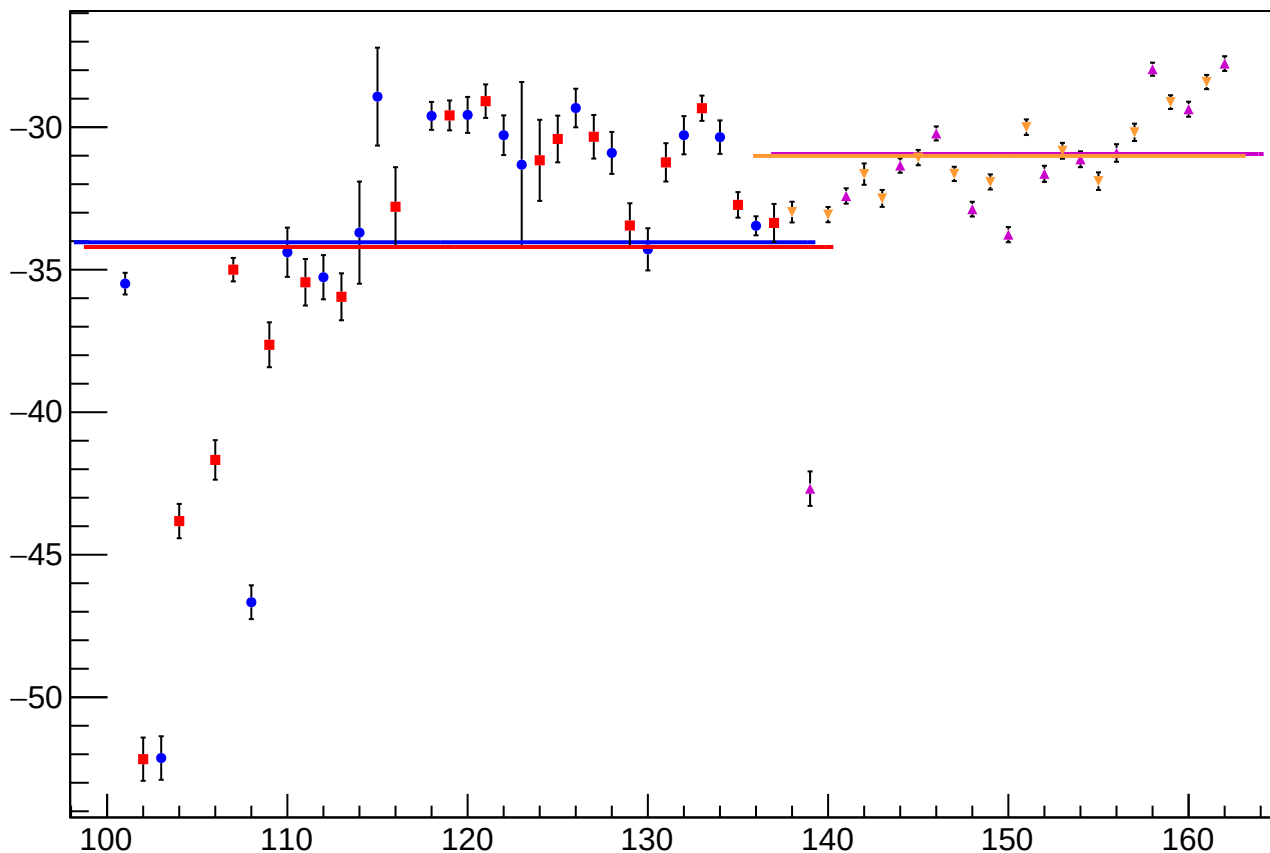
Left In: -12.358+/-0.109  $\chi^2/\text{NDF}$ : 896.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.798+/-0.078  $\chi^2/\text{NDF}$ : 1387.4/24

- sign 0.000+/-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:  $-31.007 \pm 0.078$   $\chi^2/\text{NDF}$ : 332.7/12

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}$ : 1320.7/17

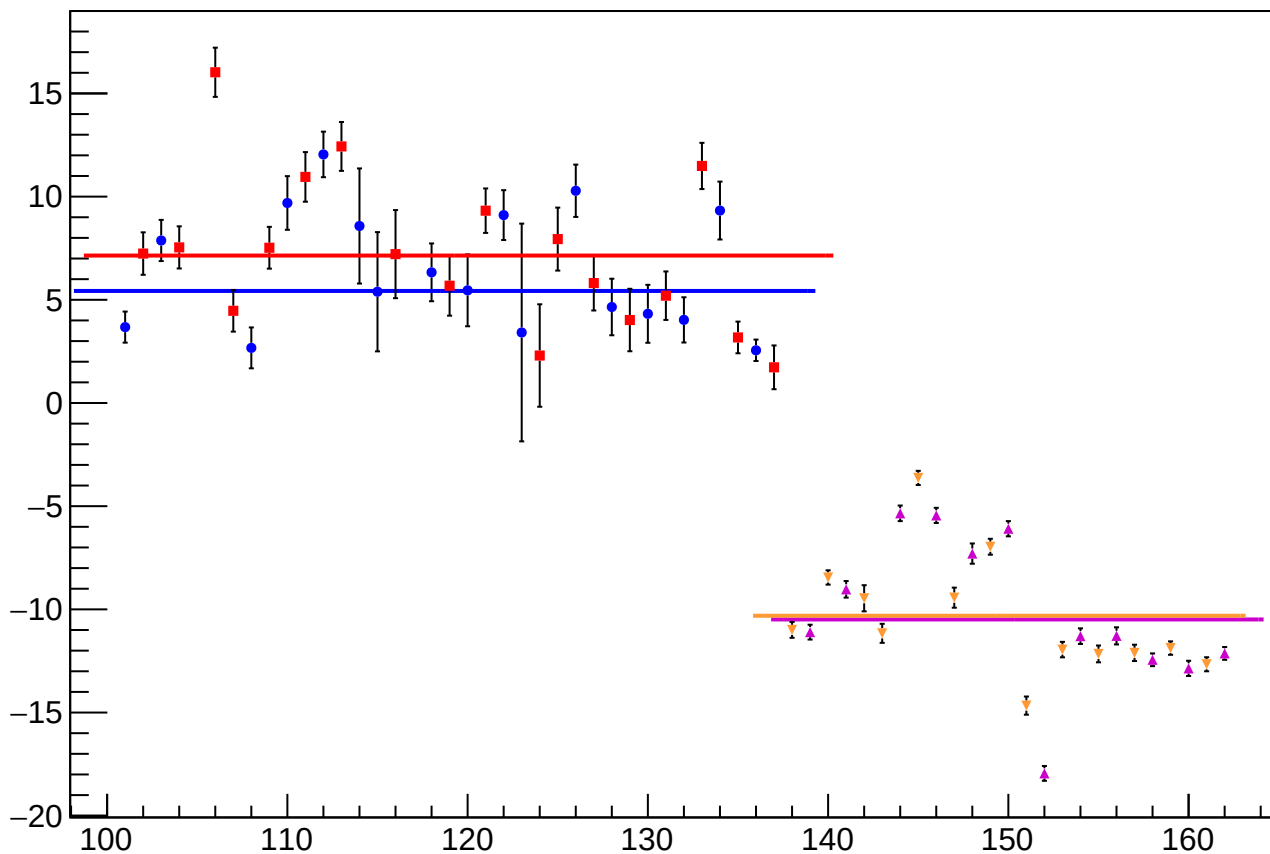
Left In:  $-30.941 \pm 0.079$   $\chi^2/\text{NDF}$ : 944.9/11

+ sign  $-31.646 \pm 0.069$   $\chi^2/\text{NDF}$ : 1994.1/29

All:  $-31.642 \pm 0.049$   $\chi^2/\text{NDF}$ : 4627.9/59

- sign  $-31.639 \pm 0.070$   $\chi^2/\text{NDF}$ : 2633.9/29

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:  $-10.309 \pm 0.109$   $\chi^2/\text{NDF}$ : 723.7/12

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

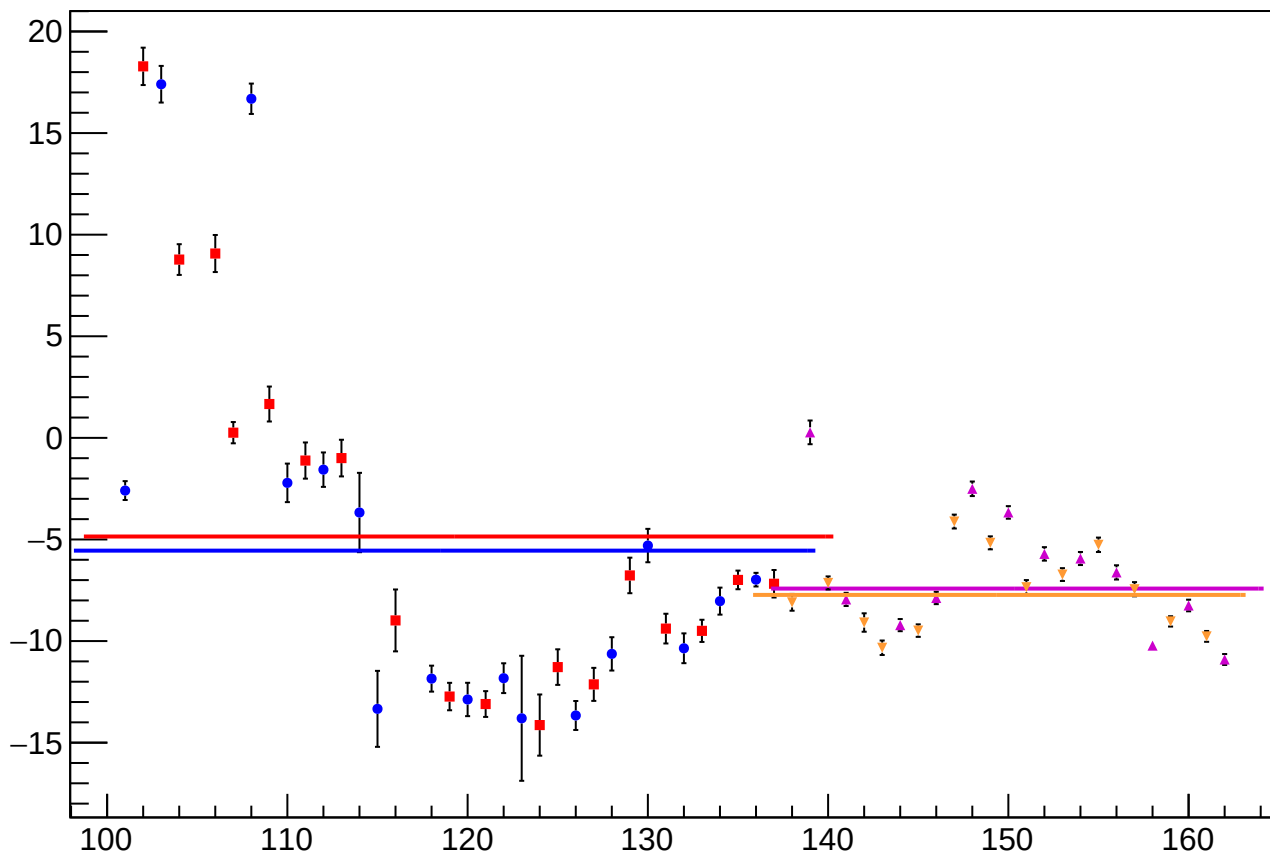
Left In:  $-10.489 \pm 0.106$   $\chi^2/\text{NDF}$ : 1122.7/11

+ sign  $-8.110 \pm 0.101$   $\chi^2/\text{NDF}$ : 3781.5/29

All:  $-8.155 \pm 0.071$   $\chi^2/\text{NDF}$ : 8661.7/59

- sign  $-8.198 \pm 0.099$   $\chi^2/\text{NDF}$ : 4879.8/29

# 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:  $-7.729 \pm 0.091$   $\chi^2/\text{NDF}$ : 419.1/12

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

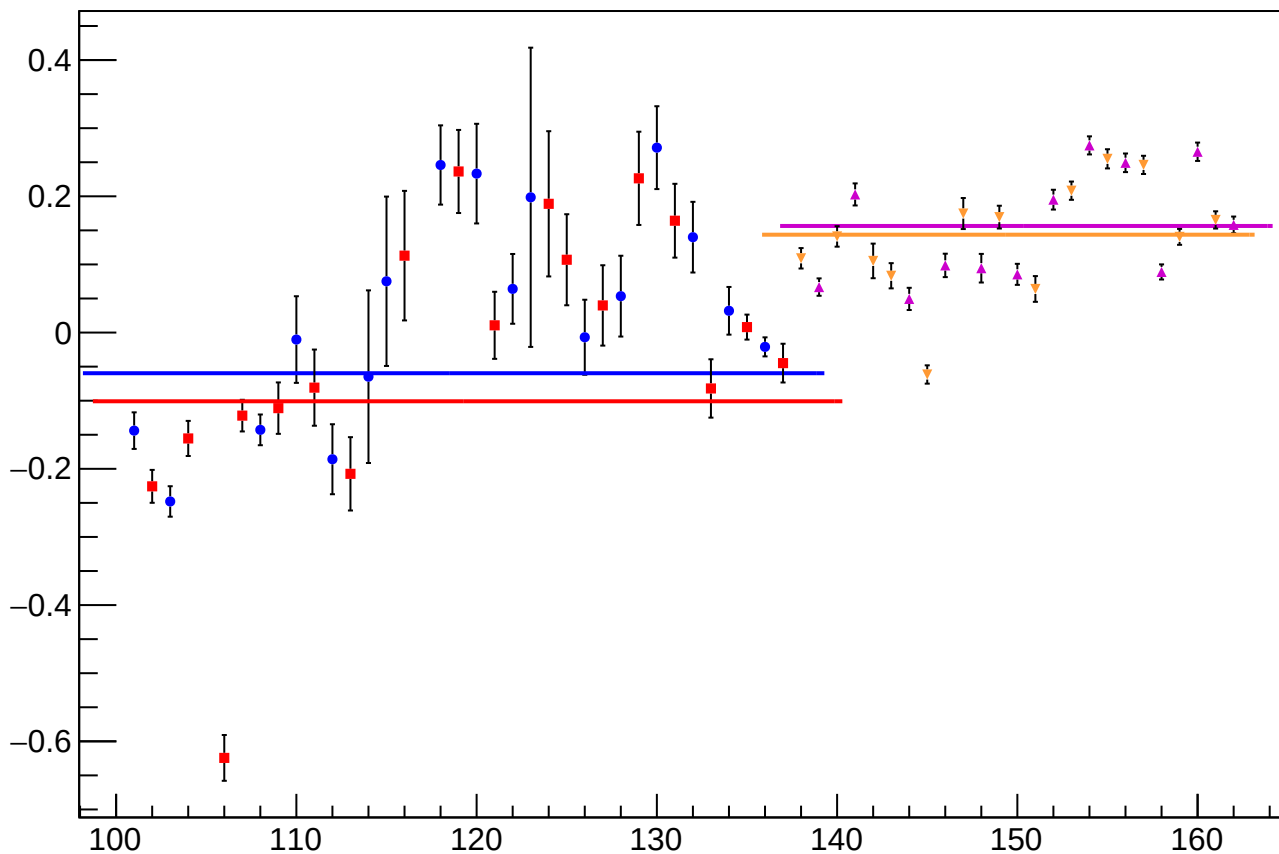
Left In:  $-7.417 \pm 0.090$   $\chi^2/\text{NDF}$ : 913.5/11

+ sign  $-7.244 \pm 0.080$   $\chi^2/\text{NDF}$ : 2673.3/29

All:  $-7.055 \pm 0.057$   $\chi^2/\text{NDF}$ : 5783.6/59

- sign  $-6.867 \pm 0.080$   $\chi^2/\text{NDF}$ : 3099.3/29

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.060 \pm 0.008$   $\chi^2/\text{NDF}$ : 216.6/16

Left Out:  $0.144 \pm 0.004$   $\chi^2/\text{NDF}$ : 420.7/12

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

Left In:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 376.9/11

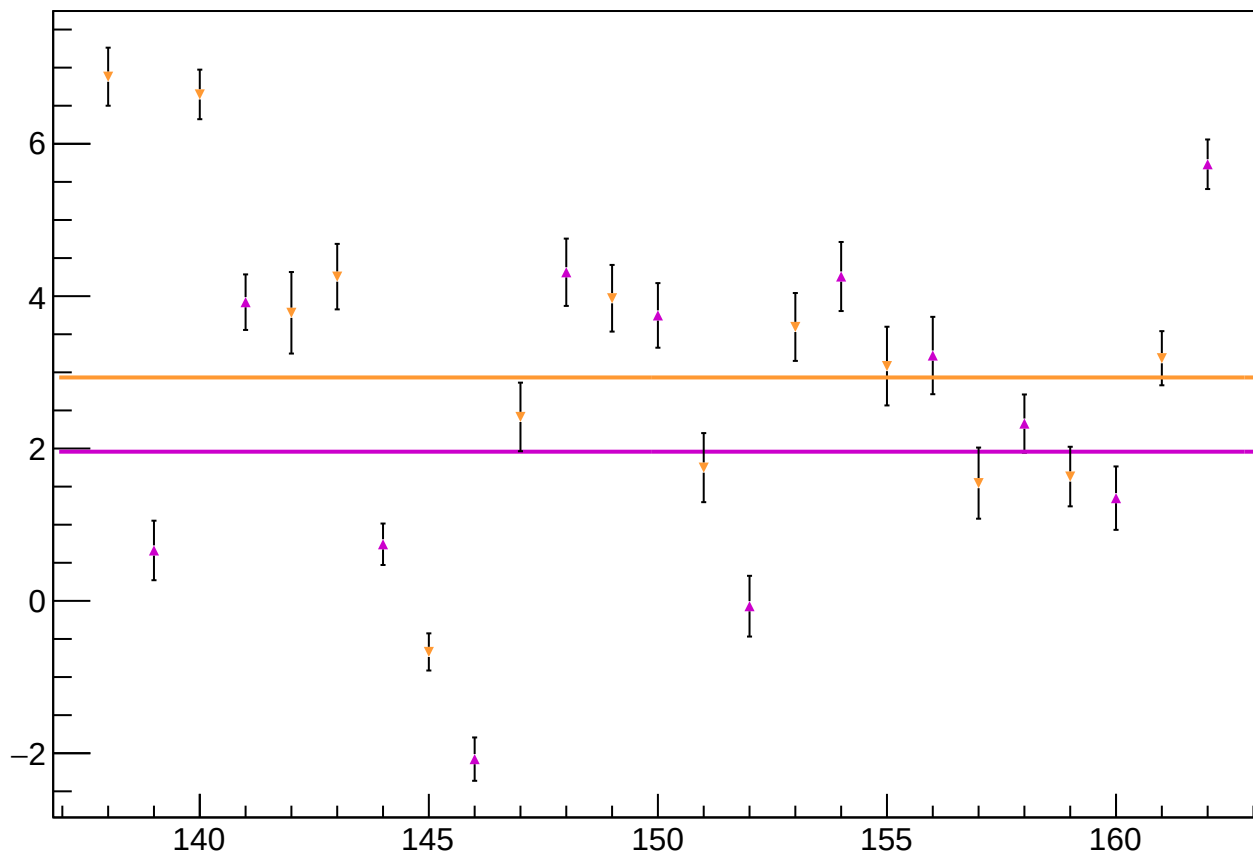
+ sign  $0.103 \pm 0.004$   $\chi^2/\text{NDF}$ : 1107.0/29

All:  $0.105 \pm 0.003$   $\chi^2/\text{NDF}$ : 2665.2/59

- sign  $0.108 \pm 0.004$   $\chi^2/\text{NDF}$ : 1557.5/29



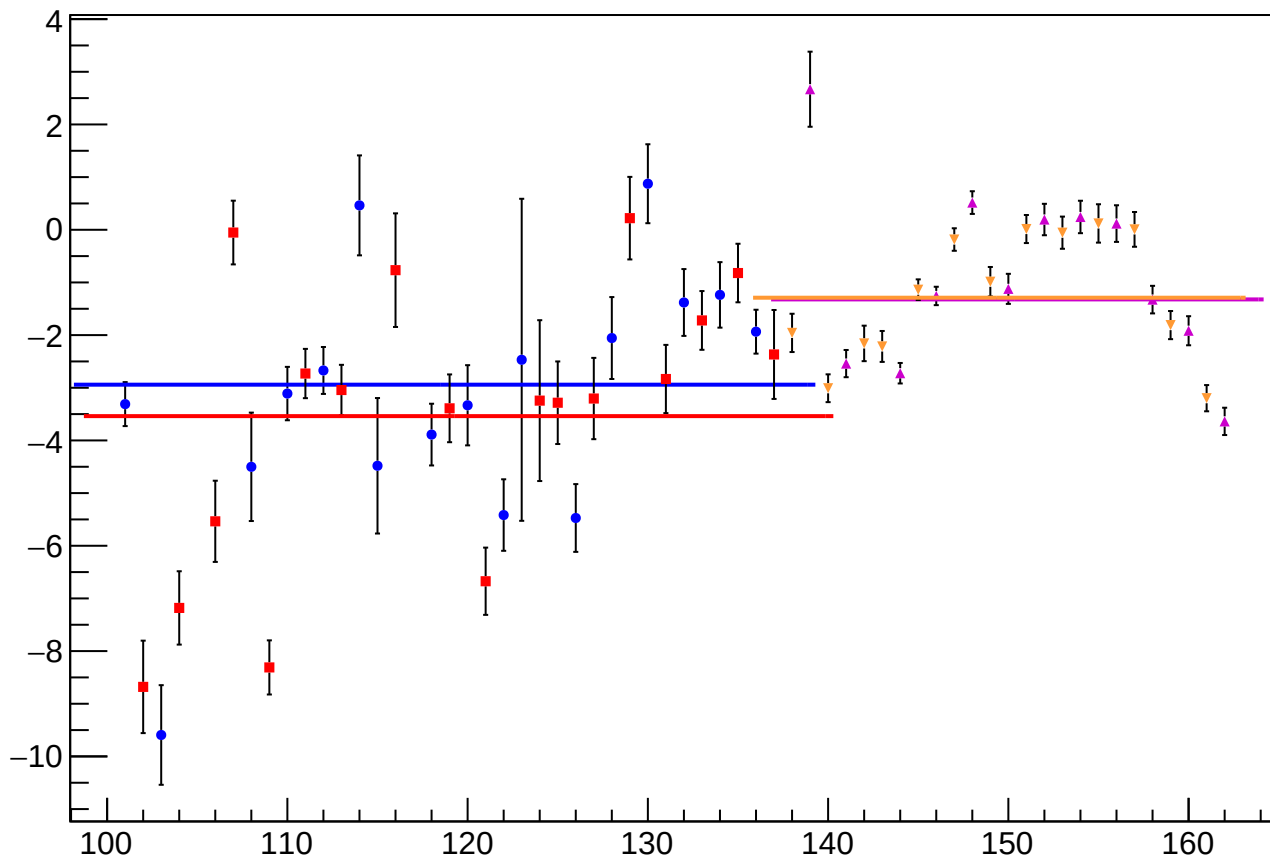
# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.933 $\pm$ 0.109  $\chi^2$ /NDF:504.6/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.958 $\pm$ 0.107  $\chi^2$ /NDF:502.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 2.438 $\pm$ 0.076  $\chi^2$ /NDF: 1048.3/24  
 - 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:  $-1.290 \pm 0.076$   $\chi^2/\text{NDF}$ : 224.0/12

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

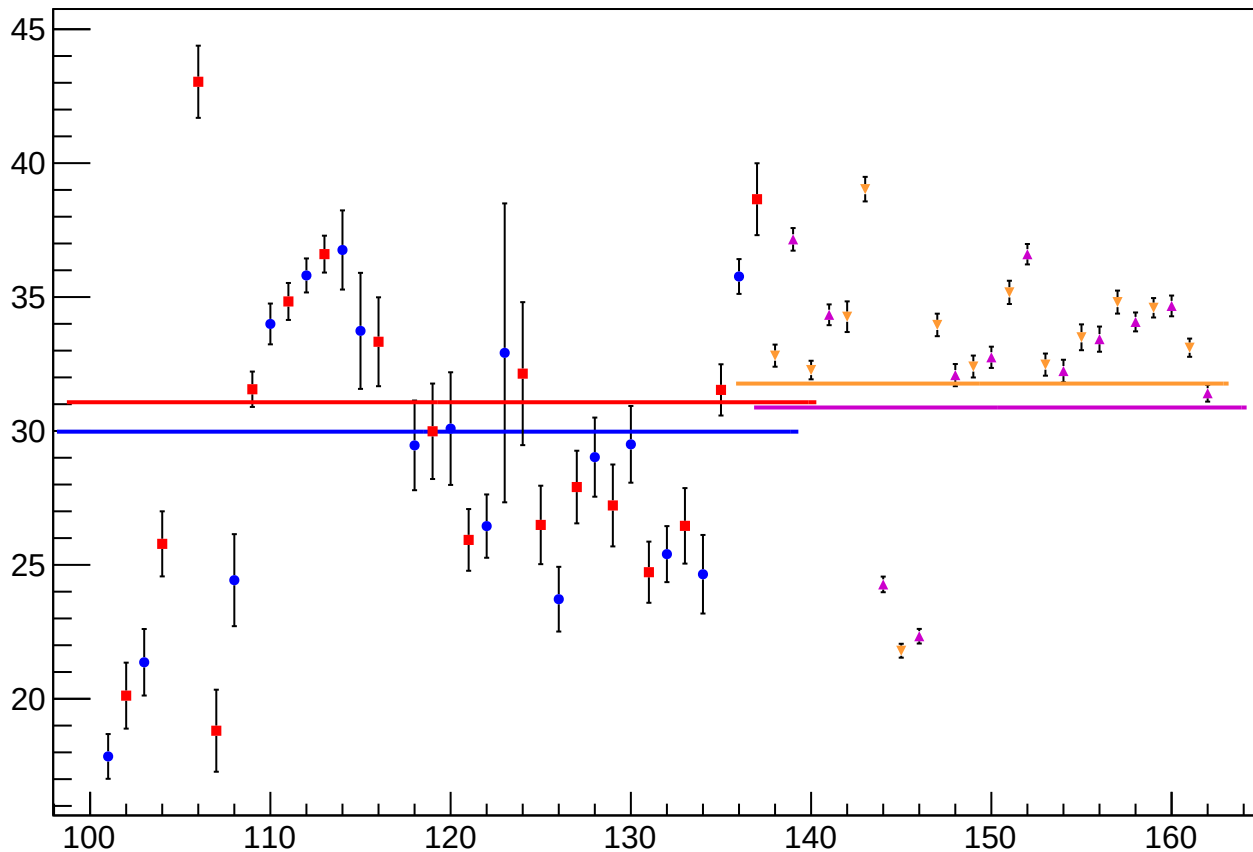
Left In:  $-1.322 \pm 0.074$   $\chi^2/\text{NDF}$ : 332.3/11

+ sign  $-1.610 \pm 0.068$   $\chi^2/\text{NDF}$ : 462.0/29

All:  $-1.674 \pm 0.048$   $\chi^2/\text{NDF}$ : 1246.7/59

- sign  $-1.735 \pm 0.067$   $\chi^2/\text{NDF}$ : 783.0/29

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $29.974 \pm 0.267$   $\chi^2/\text{NDF}: 553.9/16$

Left Out:  $31.769 \pm 0.108$   $\chi^2/\text{NDF}: 1987.2/12$

Right Out:  $31.073 \pm 0.260$   $\chi^2/\text{NDF}: 453.4/17$

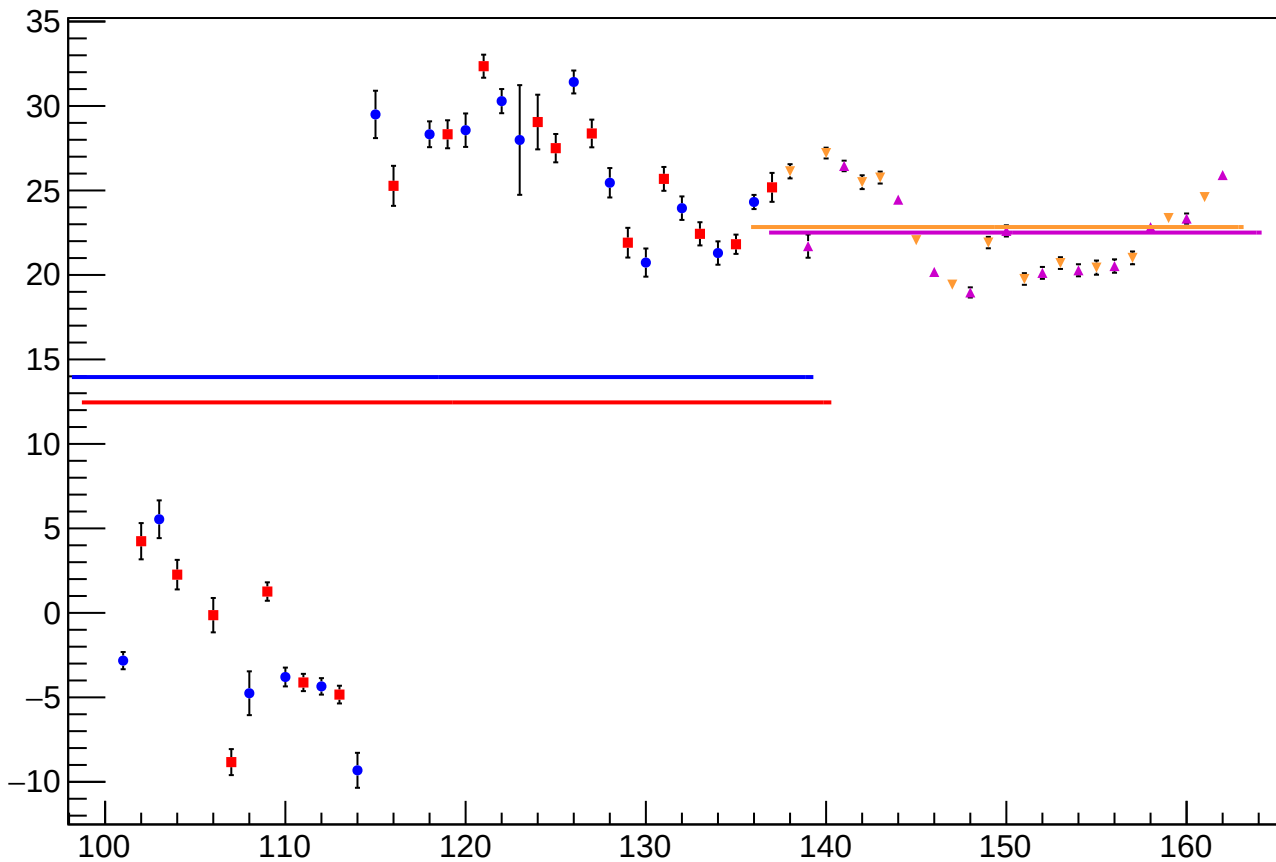
Left In:  $30.876 \pm 0.105$   $\chi^2/\text{NDF}: 2268.6/11$

+ sign  $31.517 \pm 0.100$   $\chi^2/\text{NDF}: 2579.9/29$

All:  $31.200 \pm 0.070$   $\chi^2/\text{NDF}: 5321.7/59$

- sign  $30.903 \pm 0.097$   $\chi^2/\text{NDF}: 2722.5/29$

# 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: 22.836 $\pm$ 0.089  $\chi^2$ /NDF: 734.0/12

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

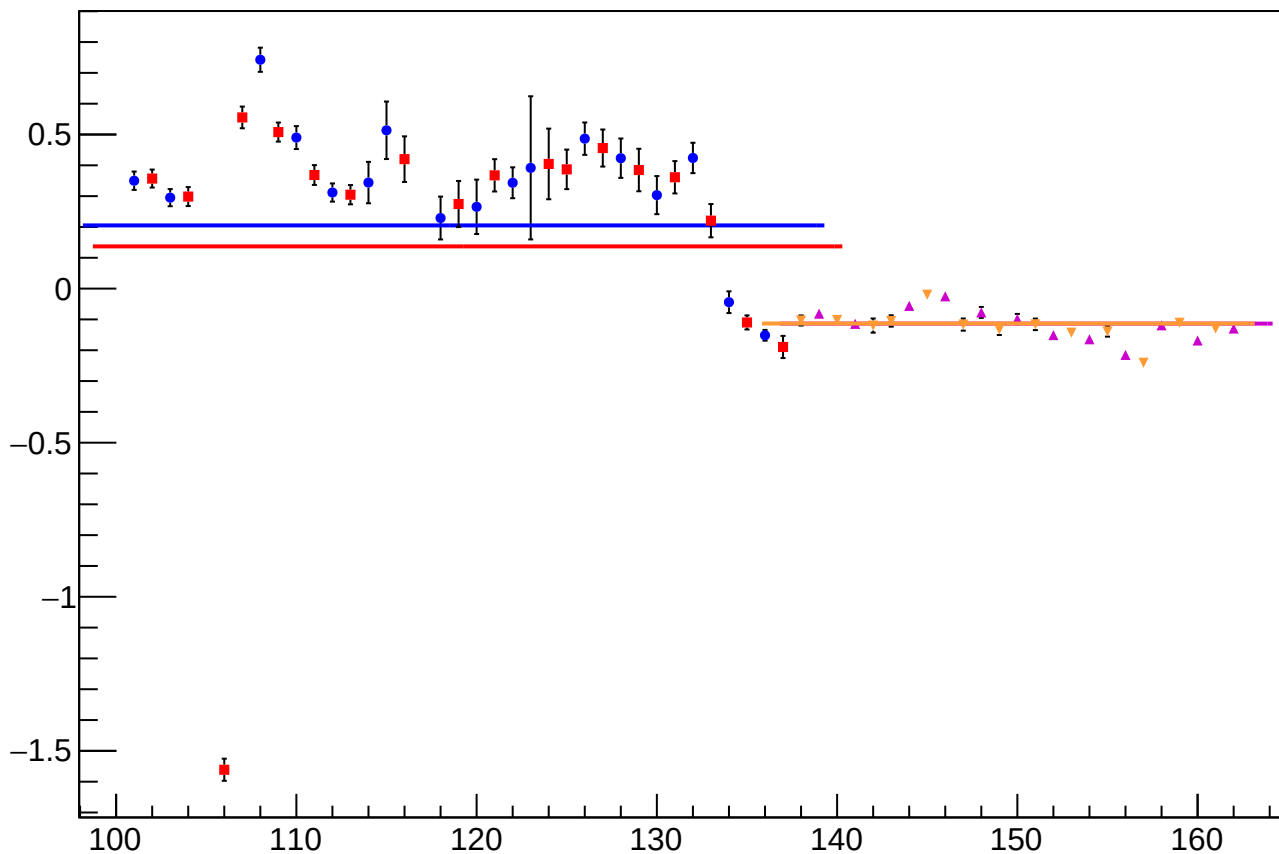
Left In: 22.508 $\pm$ 0.087  $\chi^2$ /NDF: 761.6/11

+ sign 20.954 $\pm$ 0.079  $\chi^2$ /NDF: 10175.1/29

All: 20.719 $\pm$ 0.056  $\chi^2$ /NDF: 20609.8/59

- sign 20.494 $\pm$ 0.078  $\chi^2$ /NDF: 10417.6/29

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:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}$ : 172.3/12

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}$ : 3007.9/17

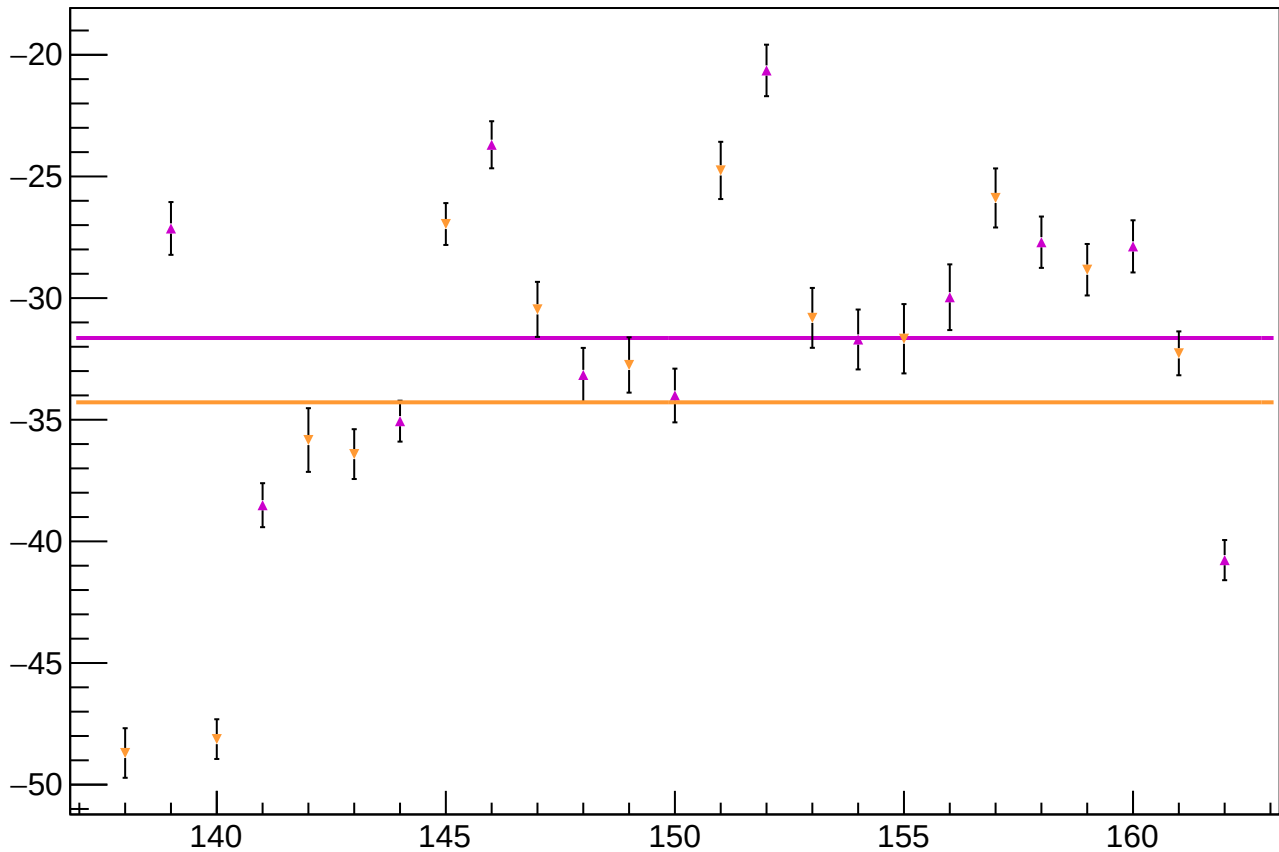
Left In:  $-0.114 \pm 0.004$   $\chi^2/\text{NDF}$ : 156.9/11

+ sign  $-0.060 \pm 0.004$   $\chi^2/\text{NDF}$ : 1978.3/29

All:  $-0.066 \pm 0.003$   $\chi^2/\text{NDF}$ : 5763.6/59

- sign  $-0.072 \pm 0.004$   $\chi^2/\text{NDF}$ : 3780.3/29

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: -34.284+/-0.294  $\chi^2/\text{NDF}$ : 735.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

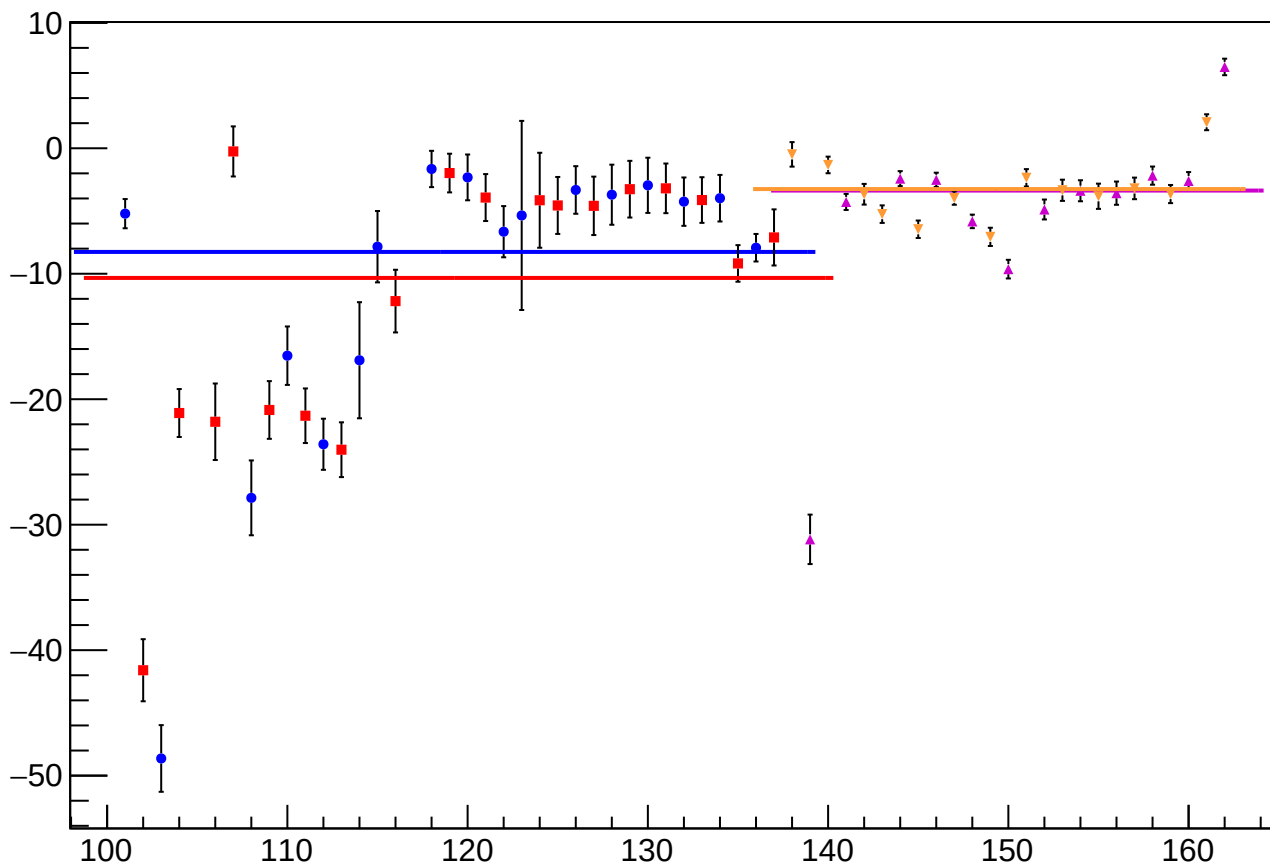
Left In: -31.640+/-0.295  $\chi^2/\text{NDF}$ : 423.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.966+/-0.208  $\chi^2/\text{NDF}$ : 1199.2/24

- 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: -3.251 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 148.2/12

Right Out: -10.334 $\pm$ 0.491  $\chi^2/\text{NDF}$ : 410.9/17

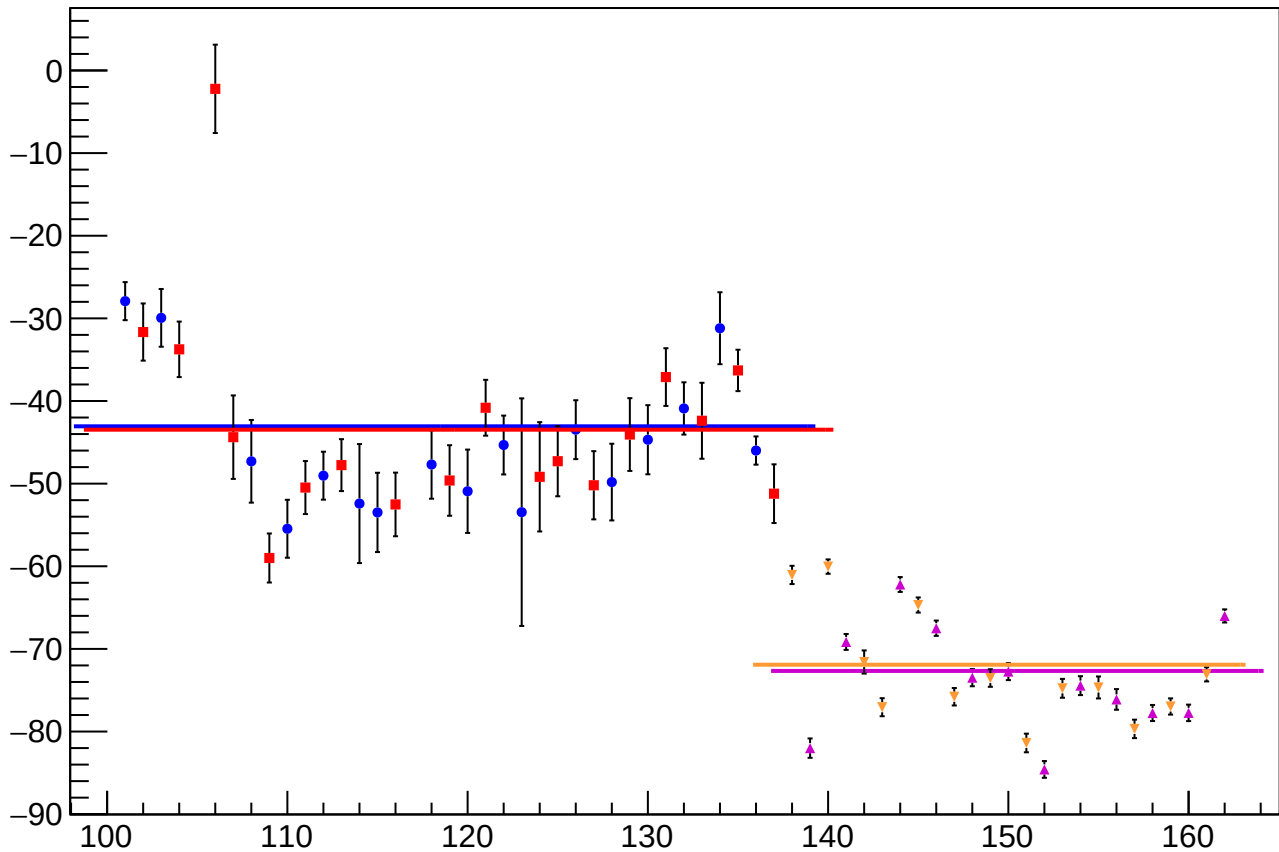
Left In: -3.371 $\pm$ 0.203  $\chi^2/\text{NDF}$ : 528.5/11

+ sign -4.053 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 658.6/29

All: -4.219 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 1771.2/59

- sign -4.389 $\pm$ 0.188  $\chi^2/\text{NDF}$ : 1111.0/29

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:  $-71.914 \pm 0.292$   $\chi^2/\text{NDF}$ : 541.5/12

Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}$ : 142.3/17

Left In:  $-72.664 \pm 0.288$   $\chi^2/\text{NDF}$ : 515.1/11

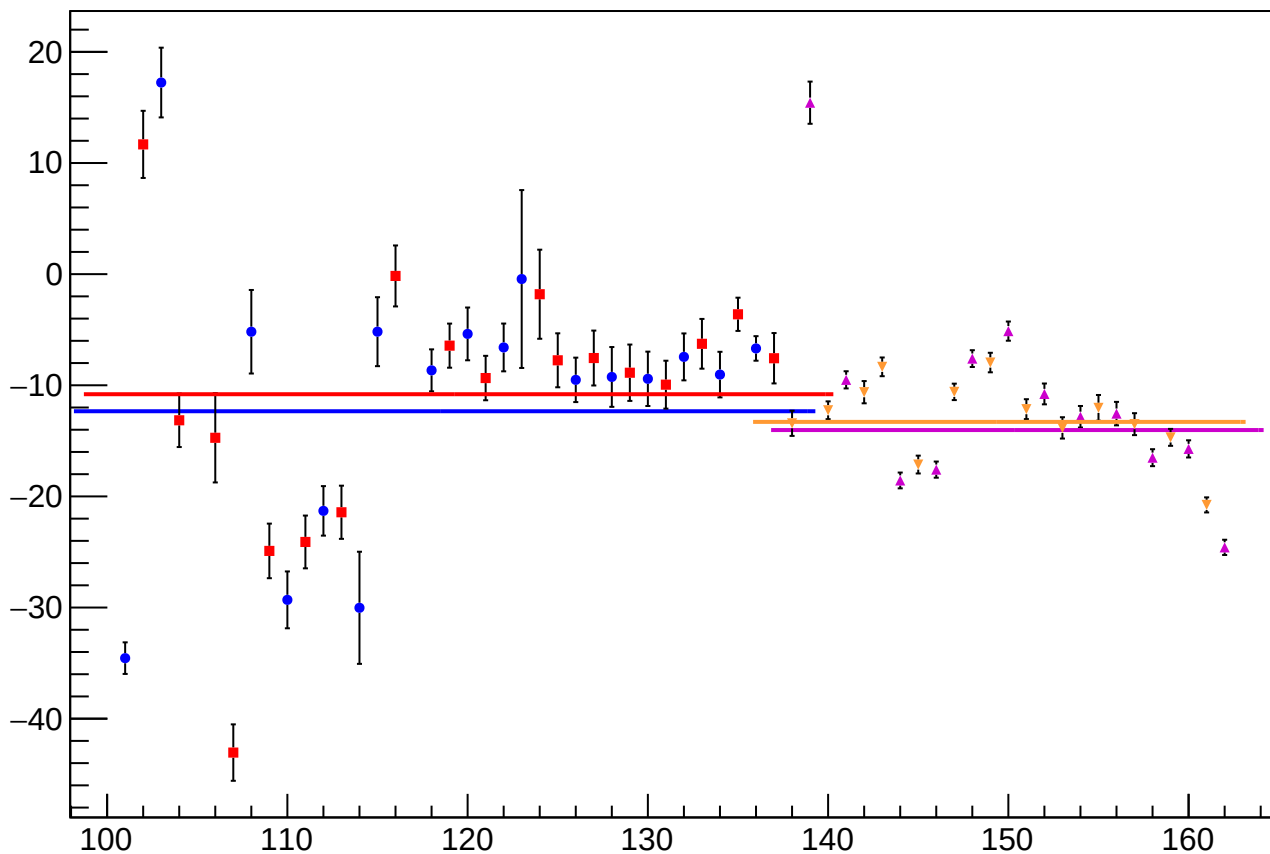
+ sign  $-68.782 \pm 0.275$   $\chi^2/\text{NDF}$ : 1703.9/29

All:  $-69.285 \pm 0.194$   $\chi^2/\text{NDF}$ : 3385.5/59

- sign  $-69.780 \pm 0.273$   $\chi^2/\text{NDF}$ : 1674.9/29



# 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:  $-13.294 \pm 0.240$   $\chi^2/\text{NDF}$ : 244.5/12

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}$ : 361.4/17

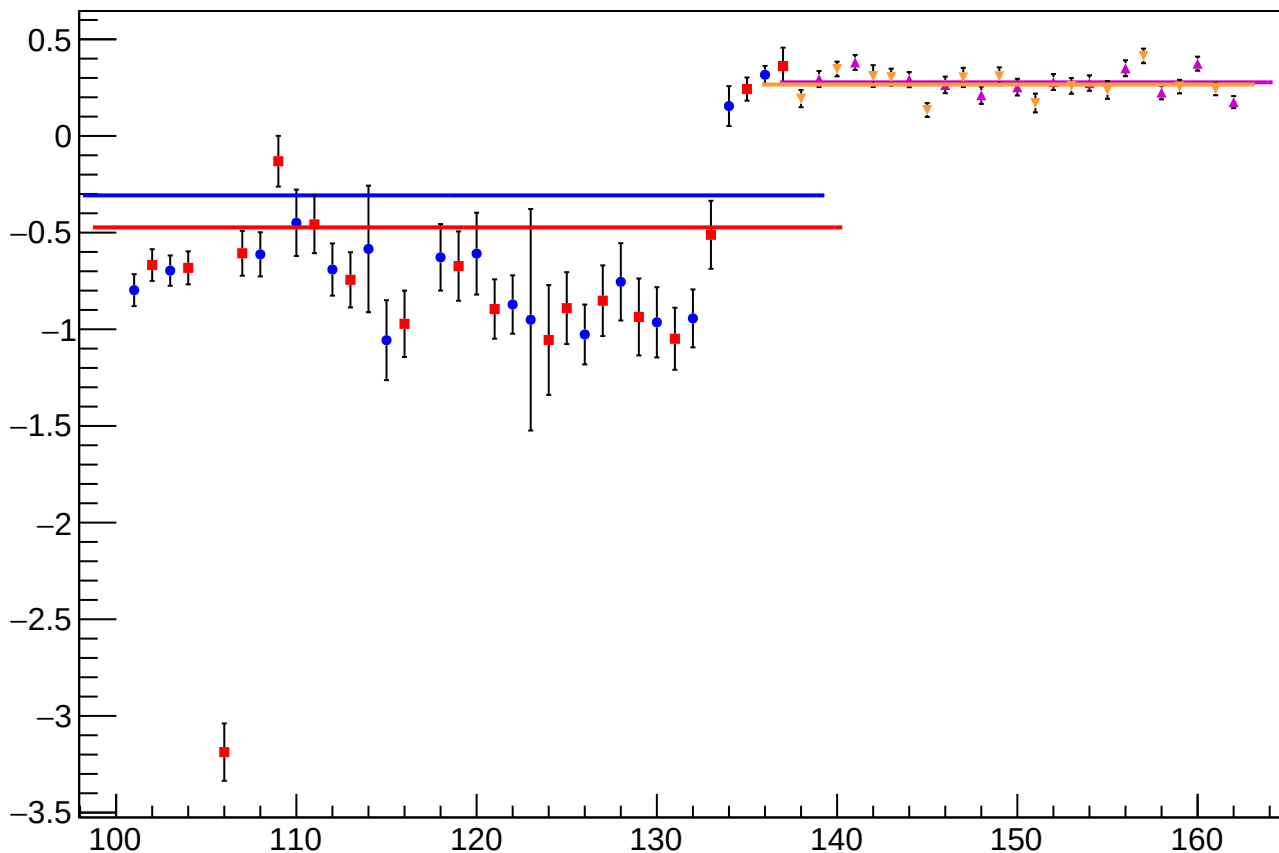
Left In:  $-14.029 \pm 0.239$   $\chi^2/\text{NDF}$ : 786.0/11

+ sign  $-13.126 \pm 0.218$   $\chi^2/\text{NDF}$ : 722.4/29

All:  $-13.323 \pm 0.154$   $\chi^2/\text{NDF}$ : 1900.0/59

- sign  $-13.523 \pm 0.219$   $\chi^2/\text{NDF}$ : 1175.9/29

# 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:  $0.266 \pm 0.011$   $\chi^2/\text{NDF}$ : 43.8/12

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

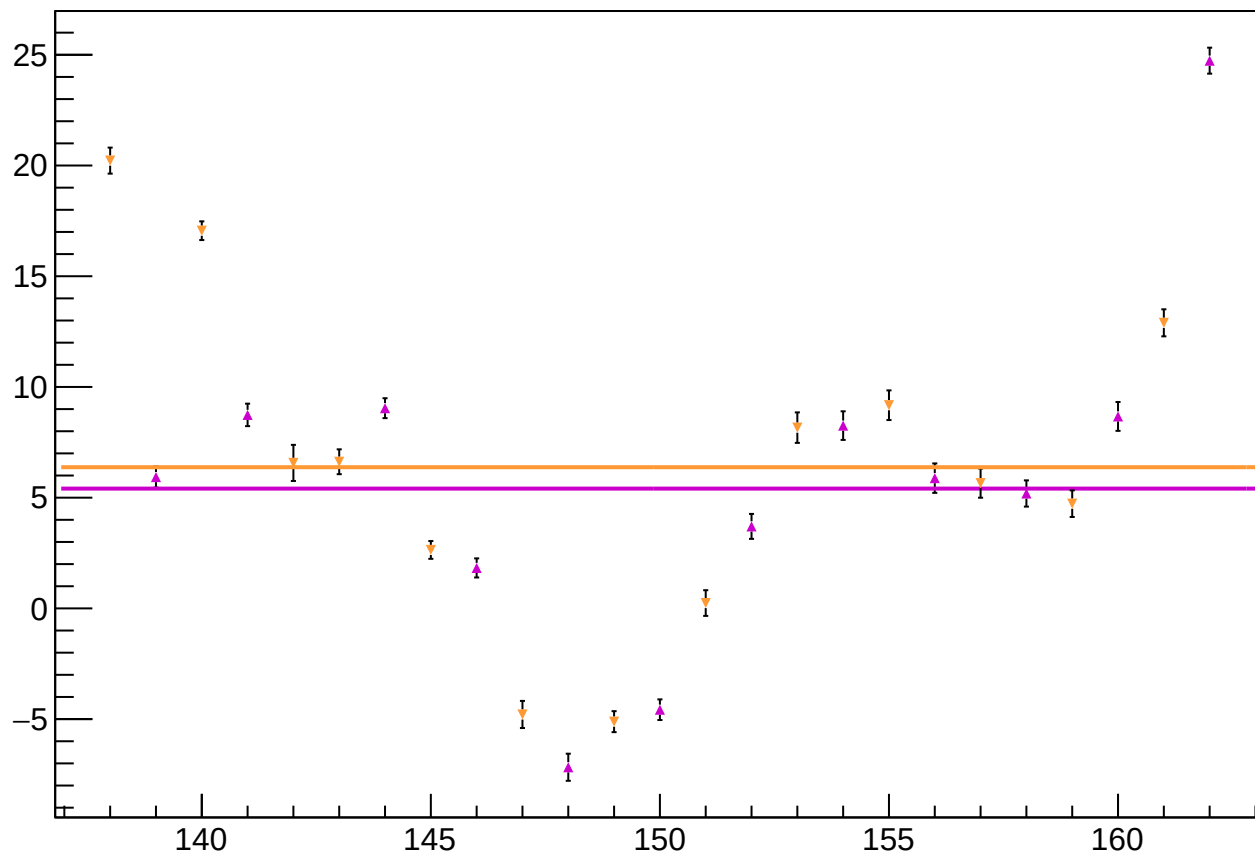
Left In:  $0.277 \pm 0.011$   $\chi^2/\text{NDF}$ : 33.2/11

+ sign  $0.182 \pm 0.011$   $\chi^2/\text{NDF}$ : 786.1/29

All:  $0.179 \pm 0.007$   $\chi^2/\text{NDF}$ : 2040.6/59

- sign  $0.176 \pm 0.010$   $\chi^2/\text{NDF}$ : 1254.4/29

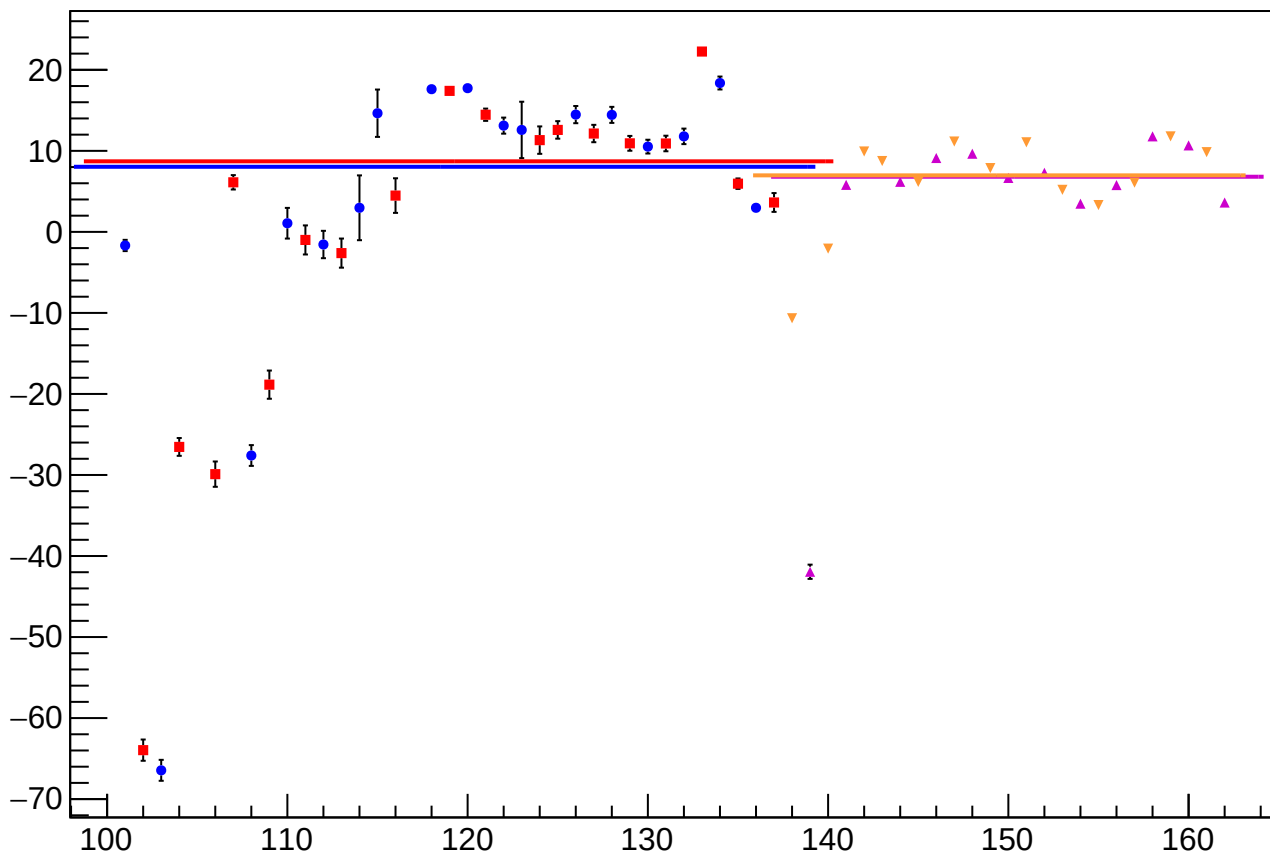
# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.376+/-0.155  $\chi^2/\text{NDF}$ :2461.8/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.410+/-0.155  $\chi^2/\text{NDF}$ :2199.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 5.892+/-0.110  $\chi^2/\text{NDF}$ : 4681.0/24  
 - 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:  $6.976 \pm 0.108$   $\chi^2/\text{NDF}: 2212.3/12$

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}: 6290.2/17$

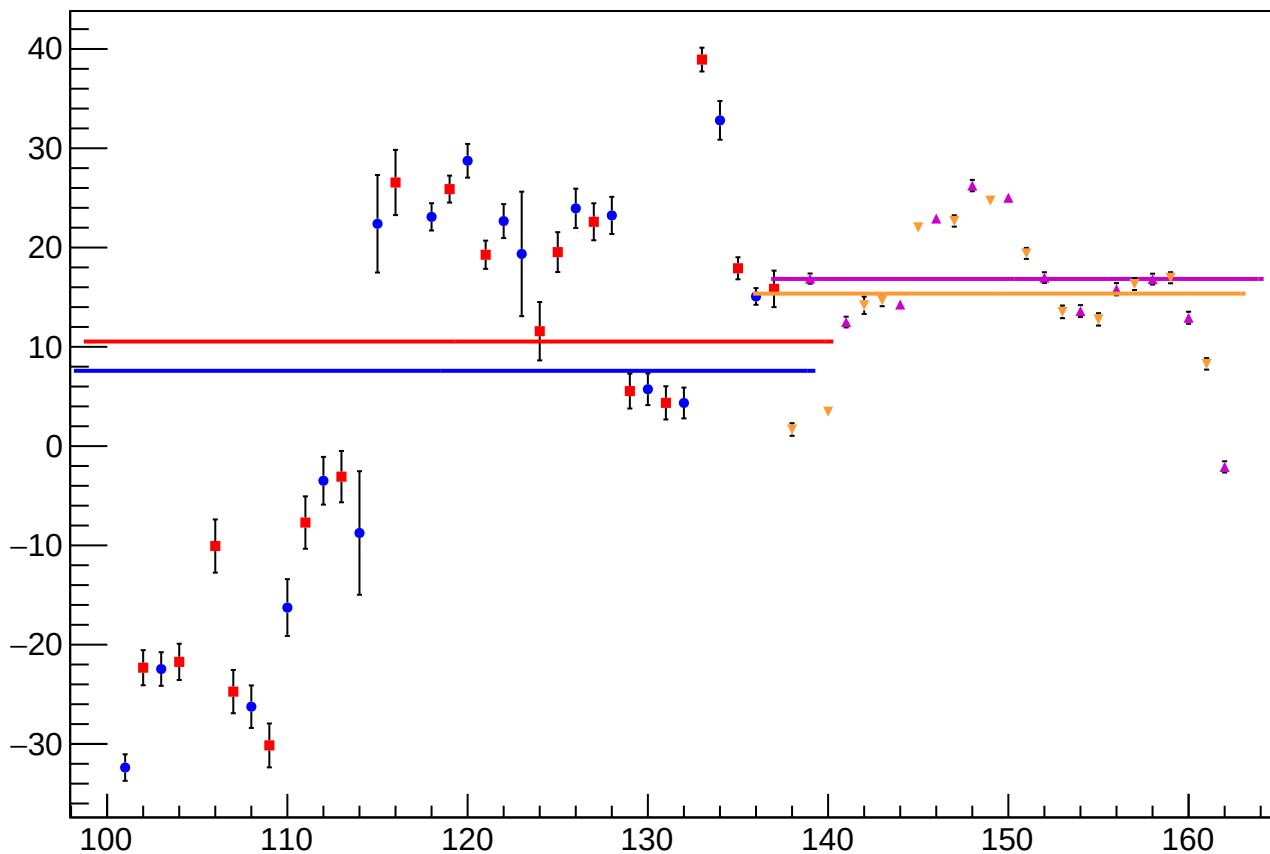
Left In:  $6.806 \pm 0.109$   $\chi^2/\text{NDF}: 3579.8/11$

+ sign  $7.188 \pm 0.096$   $\chi^2/\text{NDF}: 7601.9/29$

All:  $7.195 \pm 0.068$   $\chi^2/\text{NDF}: 17535.0/59$

- sign  $7.202 \pm 0.097$   $\chi^2/\text{NDF}: 9933.1/29$

# 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:  $15.362 \pm 0.154$   $\chi^2/\text{NDF}$ : 2258.9/12

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}$ : 2279.5/17

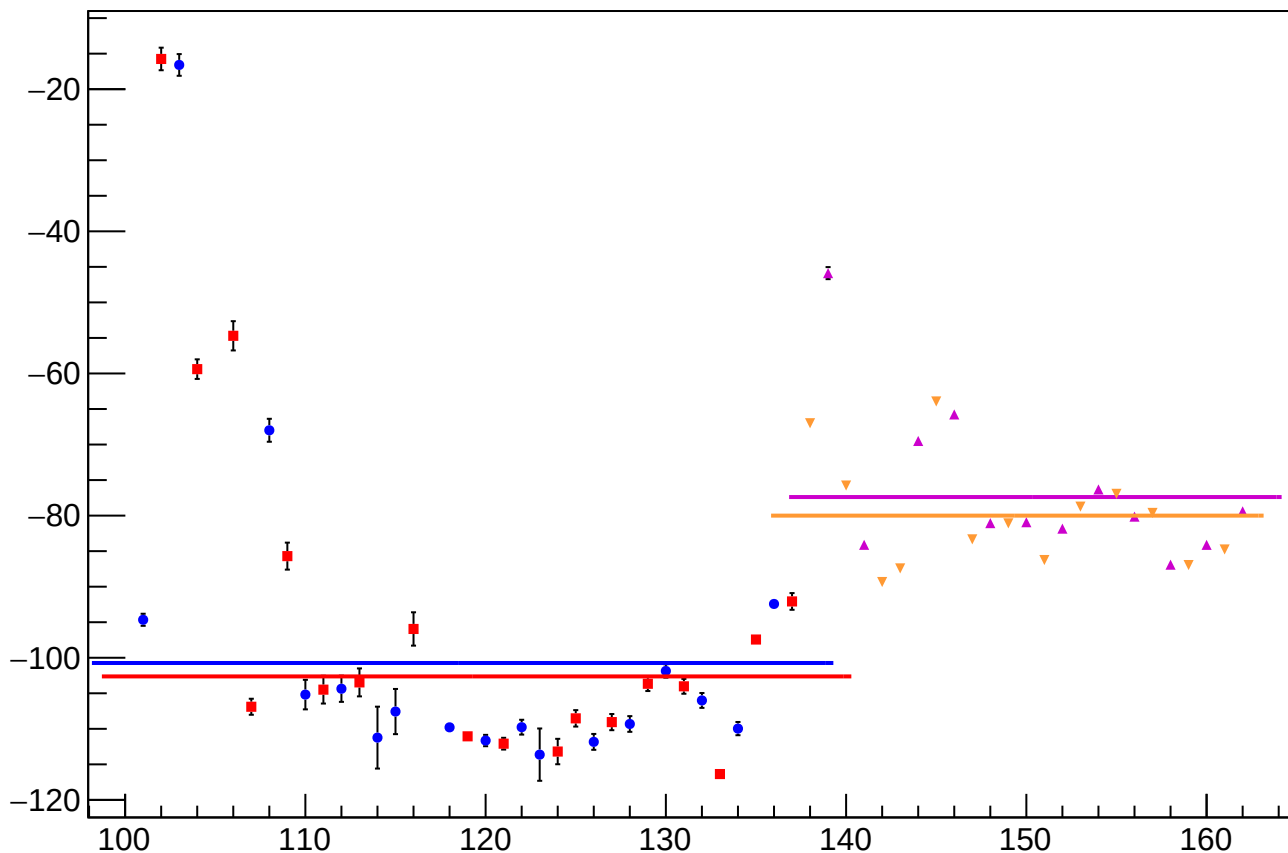
Left In:  $16.837 \pm 0.151$   $\chi^2/\text{NDF}$ : 2126.8/11

+ sign  $14.430 \pm 0.144$   $\chi^2/\text{NDF}$ : 4888.8/29

All:  $15.278 \pm 0.101$   $\chi^2/\text{NDF}$ : 9565.0/59

- sign  $16.105 \pm 0.142$   $\chi^2/\text{NDF}$ : 4607.8/29

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:  $-80.002 \pm 0.128$   $\chi^2/\text{NDF}$ : 3425.8/12

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}$ : 5716.3/17

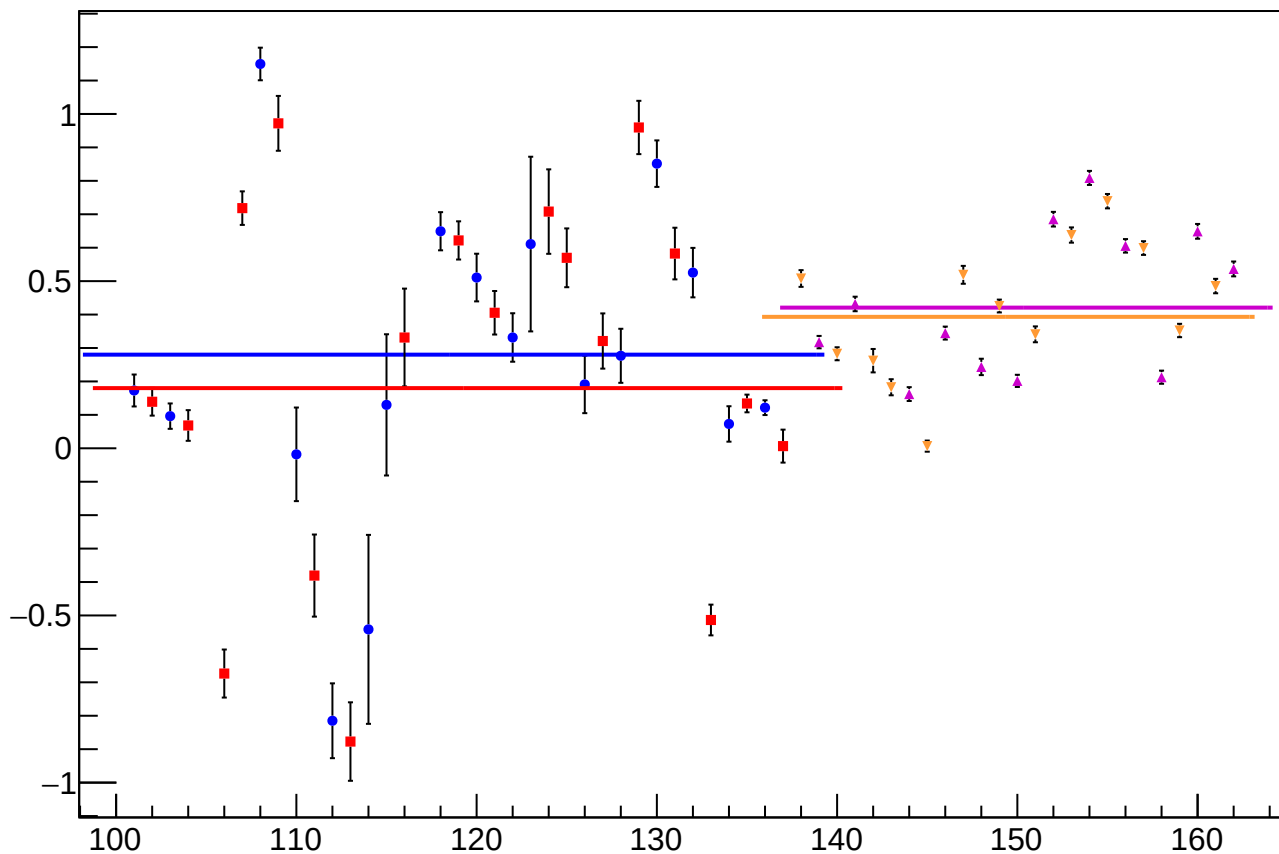
Left In:  $-77.387 \pm 0.128$   $\chi^2/\text{NDF}$ : 4185.8/11

+ sign  $-84.347 \pm 0.114$   $\chi^2/\text{NDF}$ : 13457.7/29

All:  $-83.562 \pm 0.080$   $\chi^2/\text{NDF}$ : 31726.3/59

- sign  $-82.775 \pm 0.114$   $\chi^2/\text{NDF}$ : 18173.0/29

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:  $0.393 \pm 0.006$   $\chi^2/\text{NDF}$ : 1208.4/12

Right Out:  $0.180 \pm 0.013$   $\chi^2/\text{NDF}$ : 937.1/17

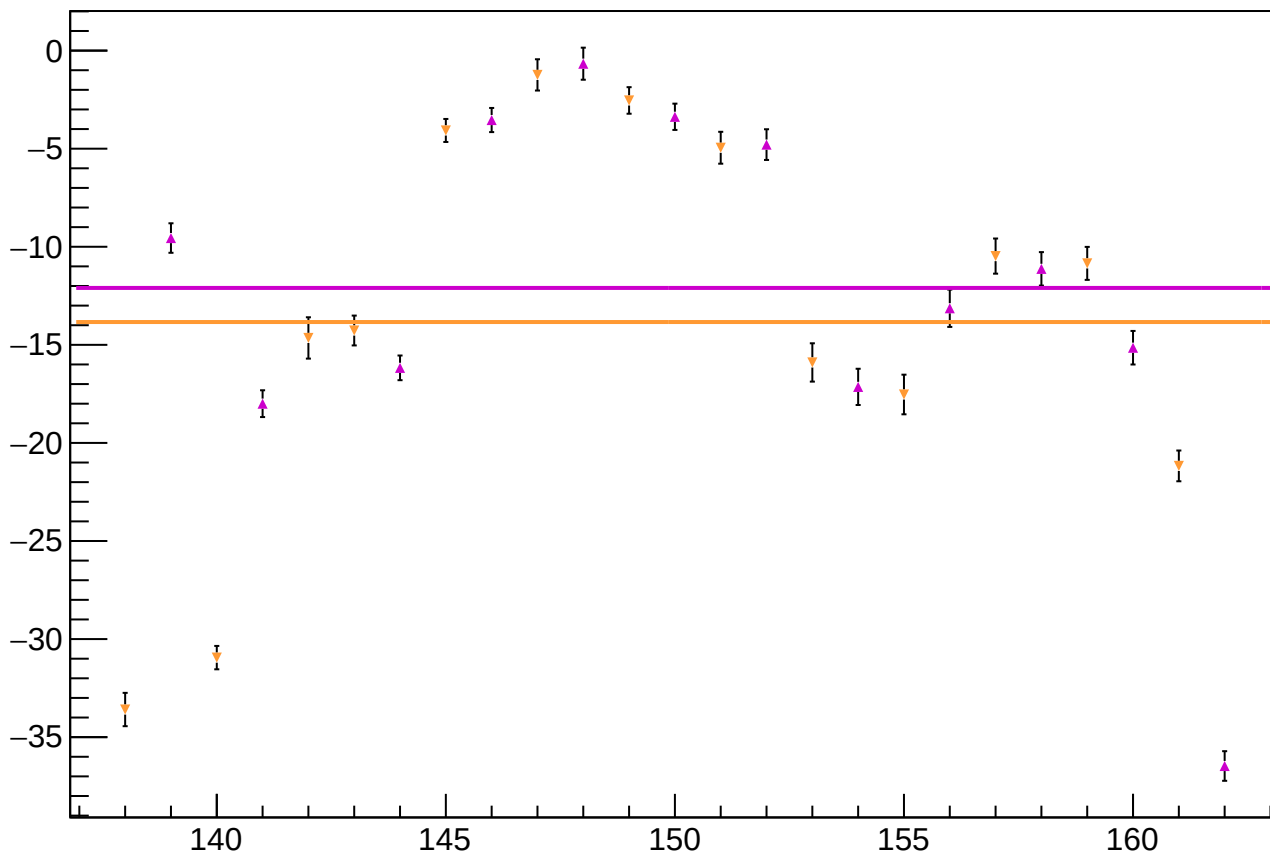
Left In:  $0.421 \pm 0.006$   $\chi^2/\text{NDF}$ : 1213.2/11

+ sign  $0.374 \pm 0.006$   $\chi^2/\text{NDF}$ : 1923.4/29

All:  $0.378 \pm 0.004$   $\chi^2/\text{NDF}$ : 4341.2/59

- sign  $0.381 \pm 0.005$   $\chi^2/\text{NDF}$ : 2417.0/29

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: -13.837+/-0.217  $\chi^2/\text{NDF}$ : 2422.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -12.099+/-0.217  $\chi^2/\text{NDF}$ : 1861.1/11

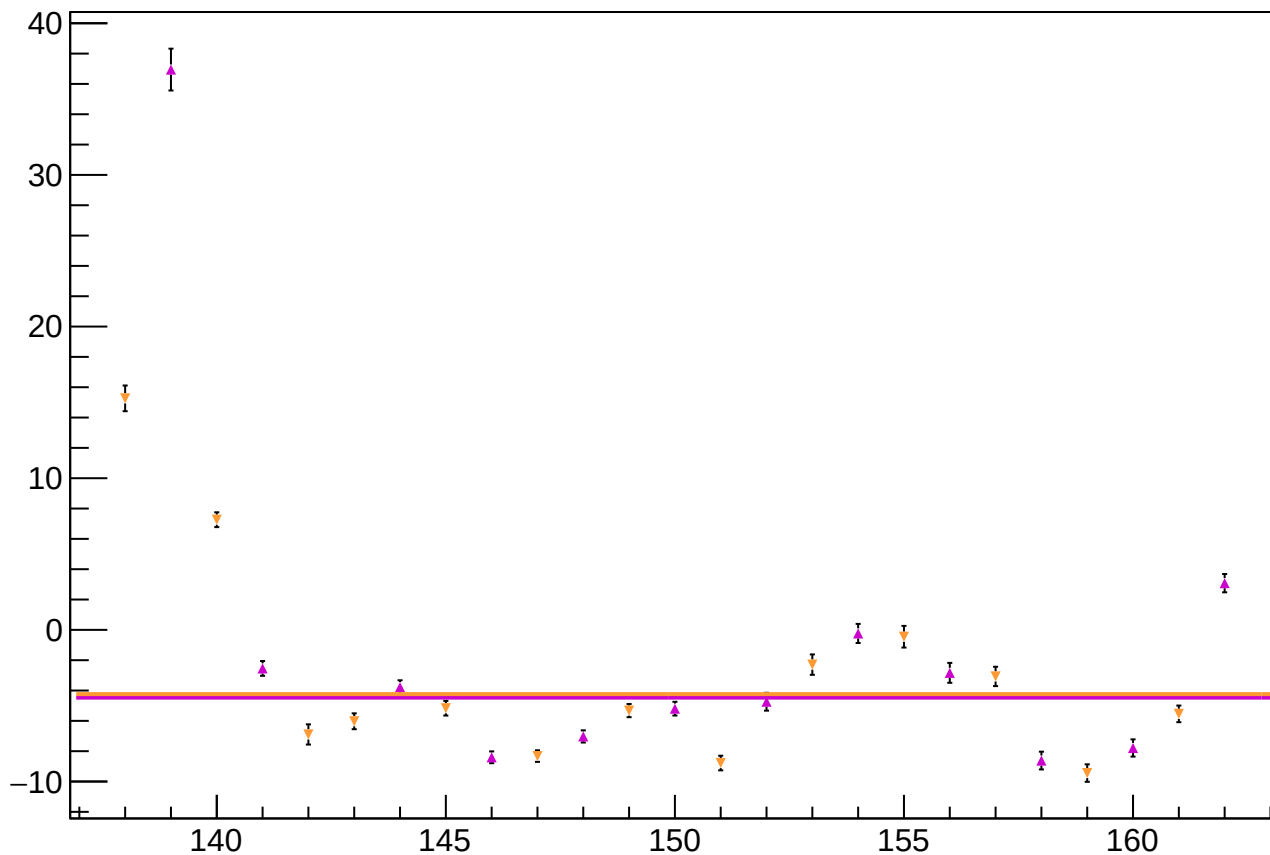
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.970+/-0.153  $\chi^2/\text{NDF}$ : 4316.0/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



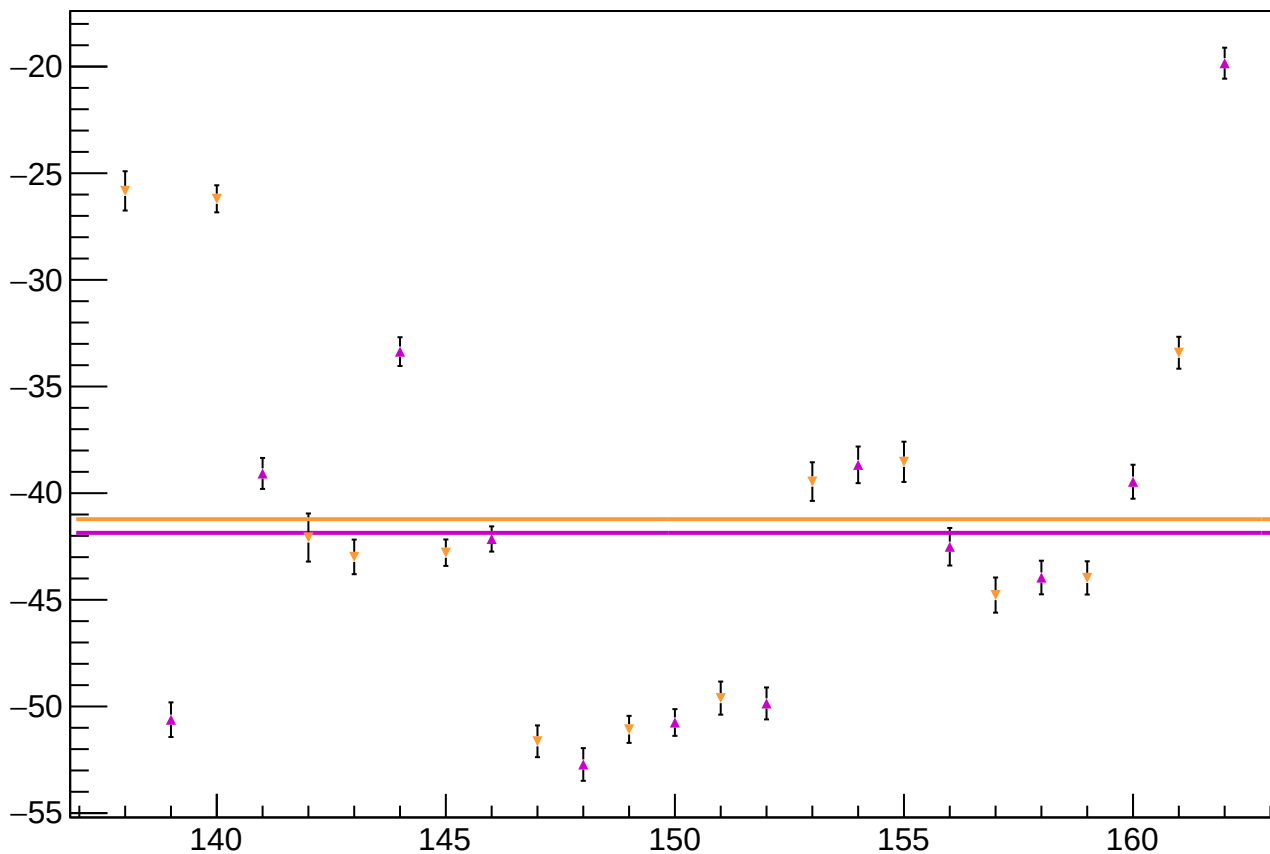
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.236+/-0.149  $\chi^2/\text{NDF}$ : 1452.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.467+/-0.151  $\chi^2/\text{NDF}$ : 1357.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -4.350+/-0.106  $\chi^2/\text{NDF}$ : 2810.9/24  
 - 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: -41.219+/-0.214  $\chi^2/\text{NDF}$ :1557.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

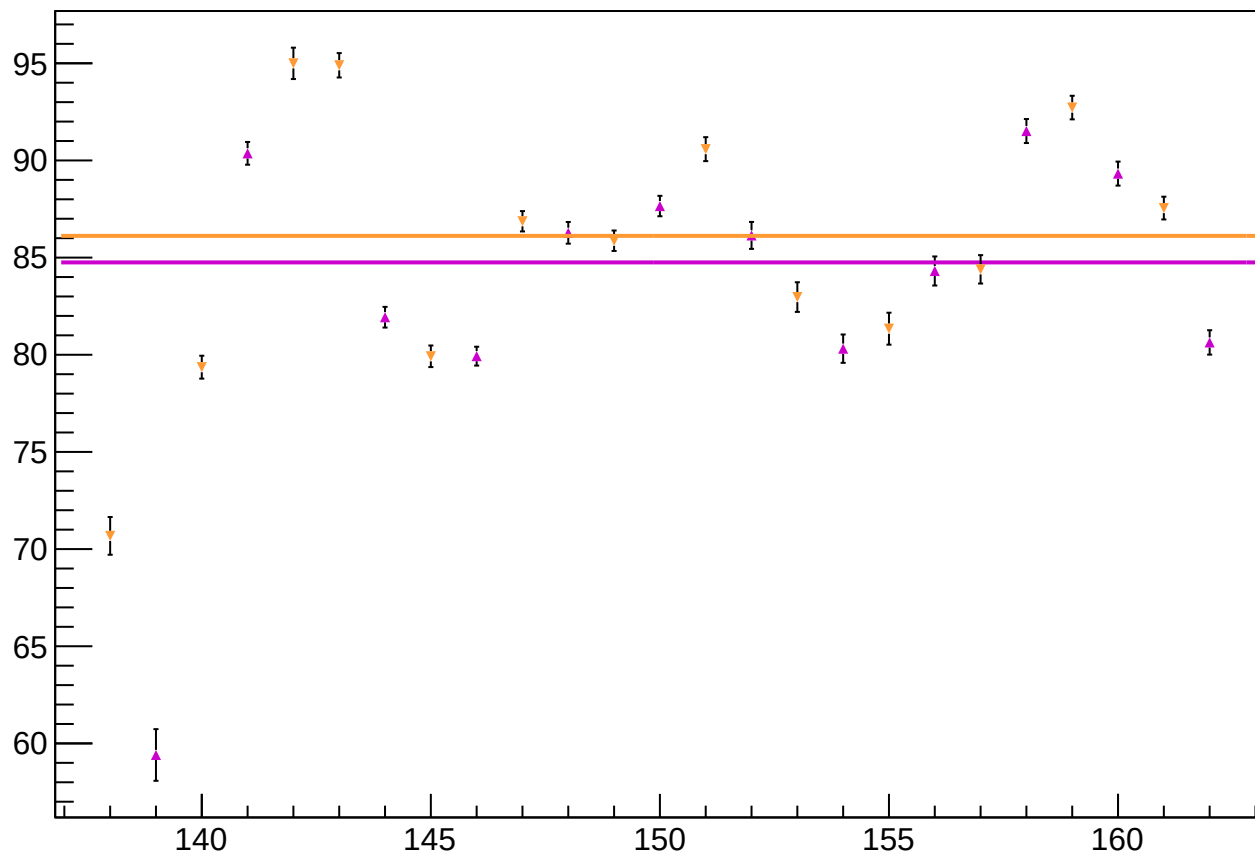
Left In: -41.860+/-0.212  $\chi^2/\text{NDF}$ :1754.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -41.543+/-0.151  $\chi^2/\text{NDF}$ : 3316.3/24

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 86.118 $\pm$ 0.177  $\chi^2$ /NDF:1060.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

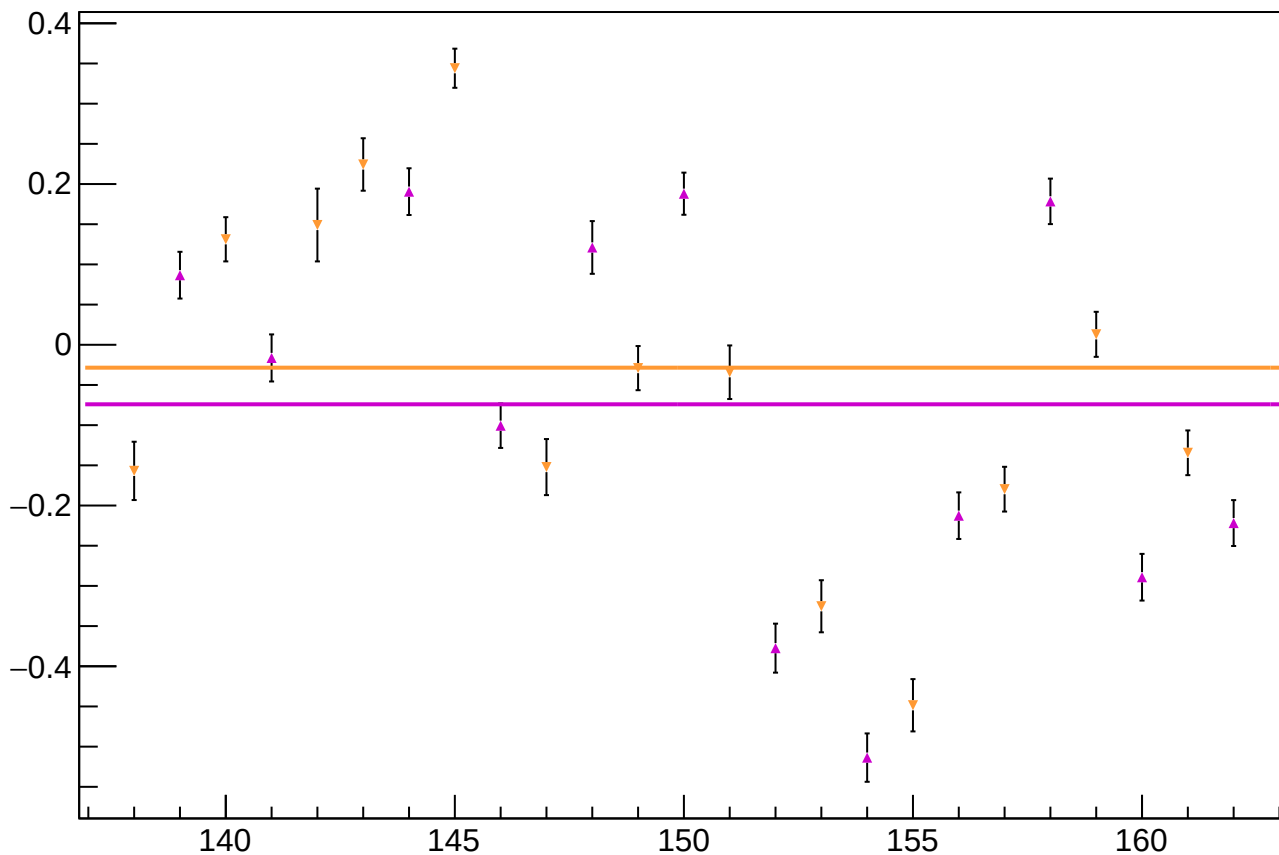
Left In: 84.753 $\pm$ 0.178  $\chi^2$ /NDF:879.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.438 $\pm$ 0.126  $\chi^2$ /NDF: 1969.4/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: -0.028+/-0.008  $\chi^2/\text{NDF}$ : 665.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

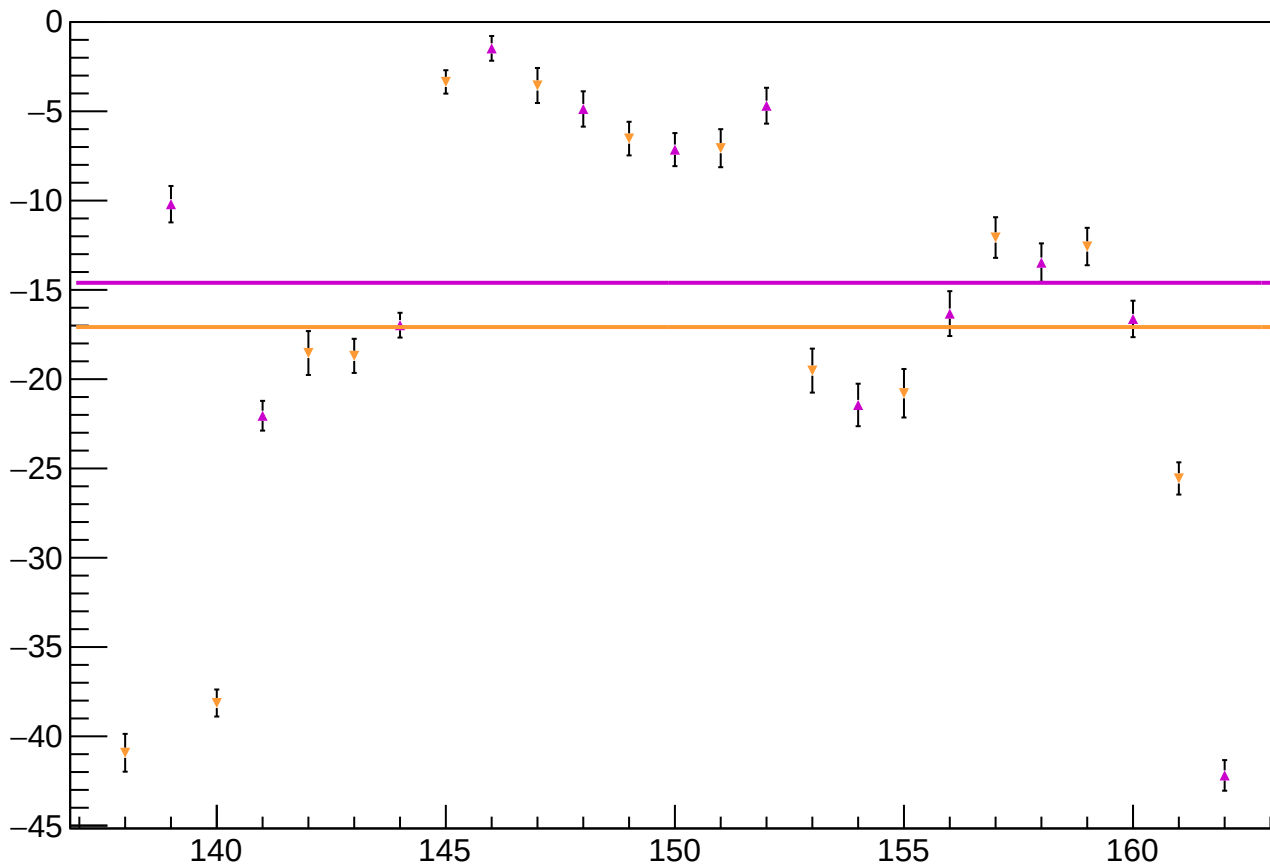
Left In: -0.074+/-0.008  $\chi^2/\text{NDF}$ : 750.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.051+/-0.006  $\chi^2/\text{NDF}$ : 1430.0/24

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -17.083+/-0.268  $\chi^2/\text{NDF}$ : 2266.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

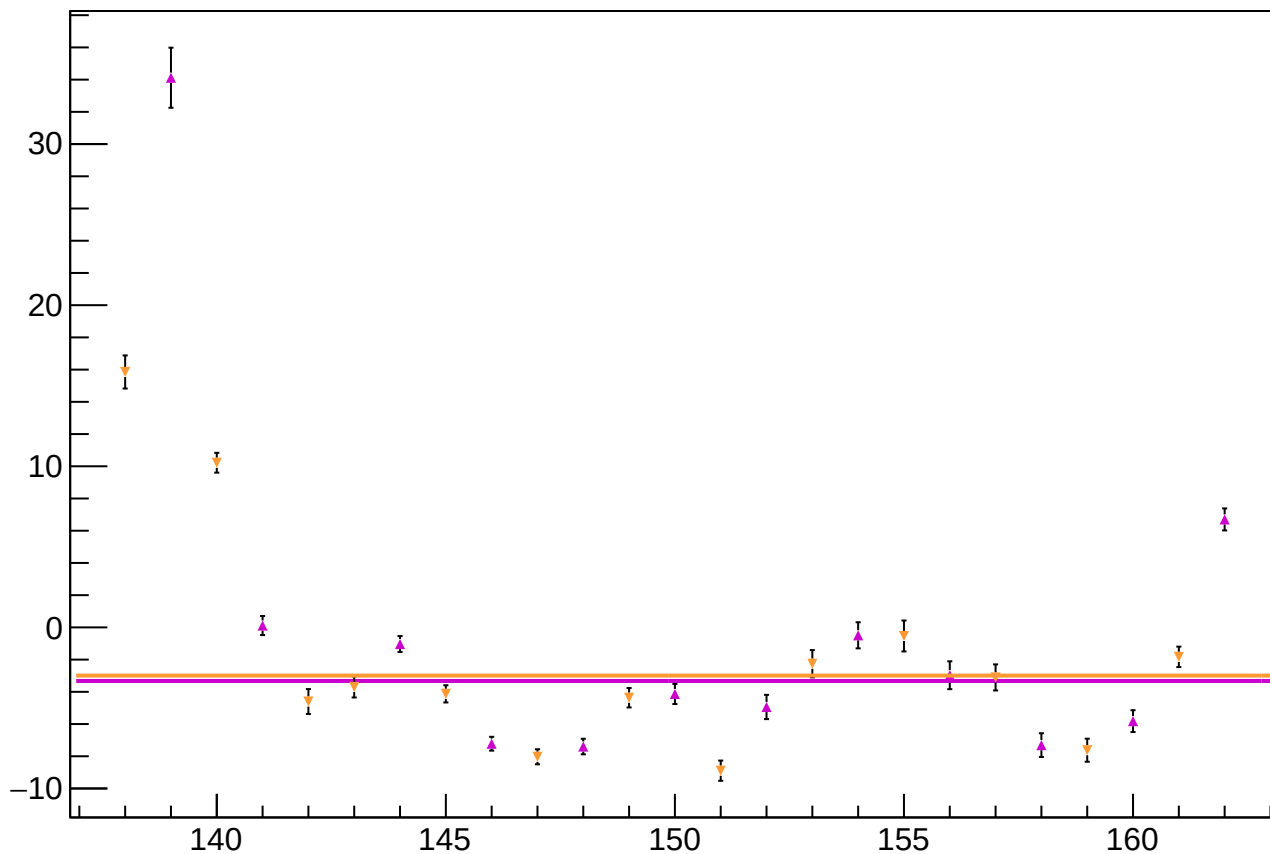
Left In: -14.603+/-0.265  $\chi^2/\text{NDF}$ : 1804.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.826+/-0.188  $\chi^2/\text{NDF}$ : 4113.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2.993+/-0.184  $\chi^2/\text{NDF}$ :1072.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

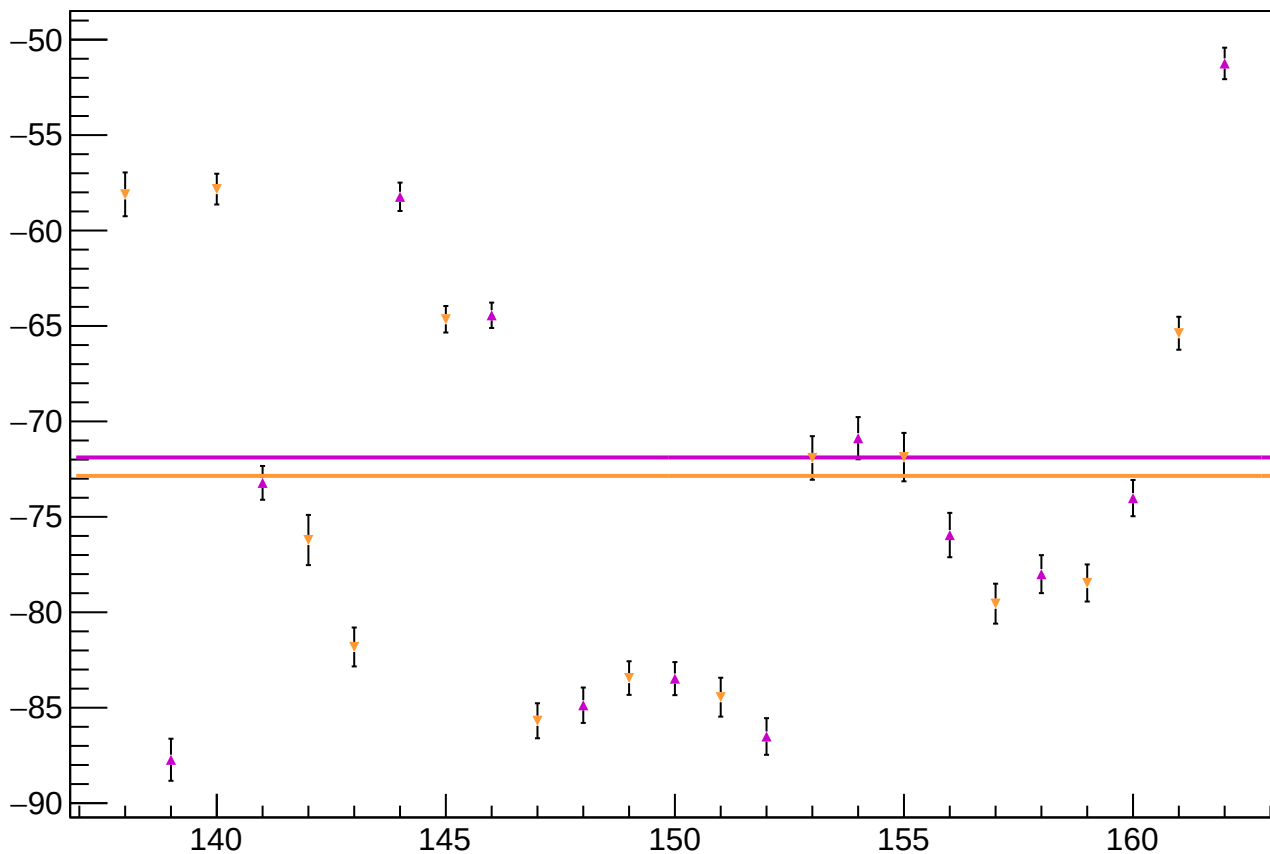
Left In: -3.327+/-0.182  $\chi^2/\text{NDF}$ :888.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.162+/-0.129  $\chi^2/\text{NDF}$ : 1962.2/24

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -72.854 $\pm$ 0.267  $\chi^2$ /NDF:1357.1/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

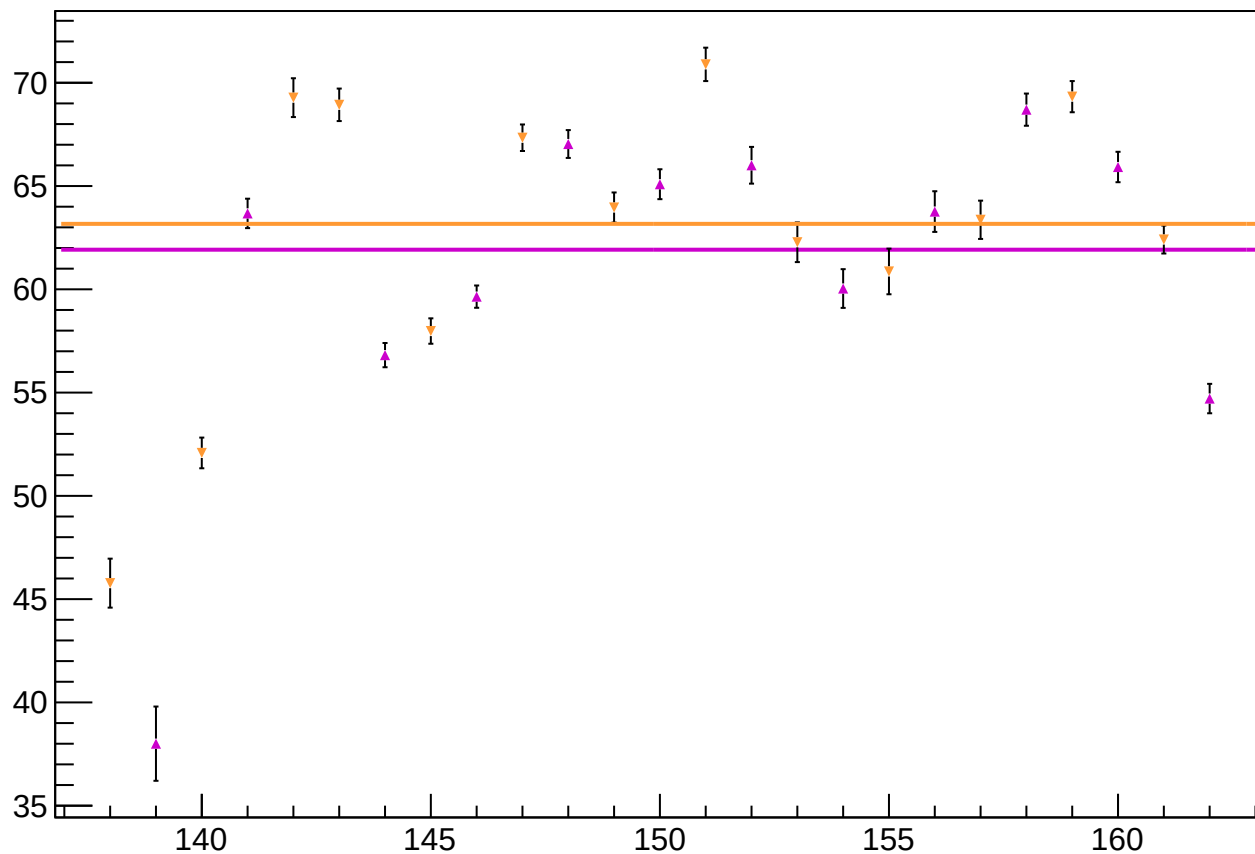
Left In: -71.888 $\pm$ 0.259  $\chi^2$ /NDF:1959.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -72.357 $\pm$ 0.186  $\chi^2$ /NDF: 3323.0/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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: 63.169+/-0.219  $\chi^2/\text{NDF}$ : 812.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 61.918+/-0.215  $\chi^2/\text{NDF}$ : 589.7/11

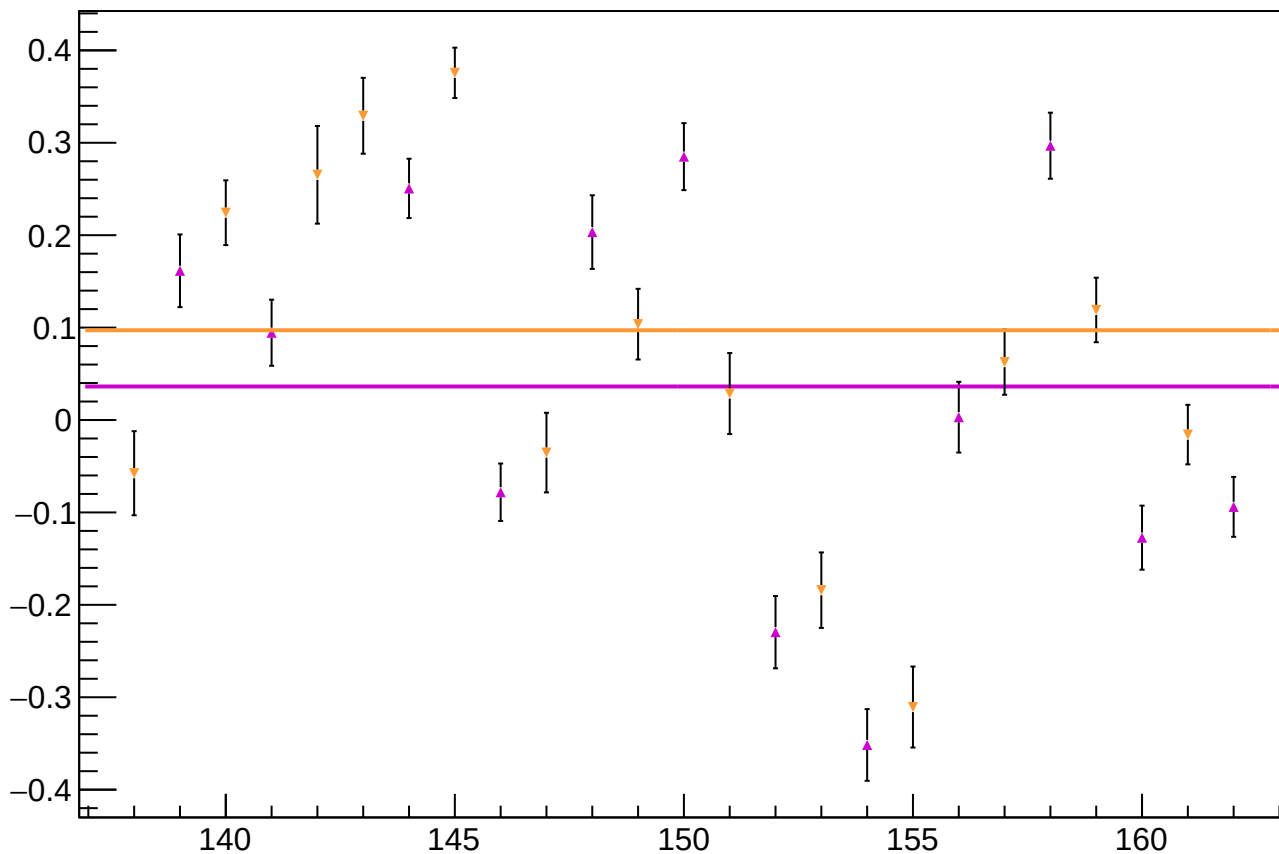
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.531+/-0.154  $\chi^2/\text{NDF}$ : 1419.1/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



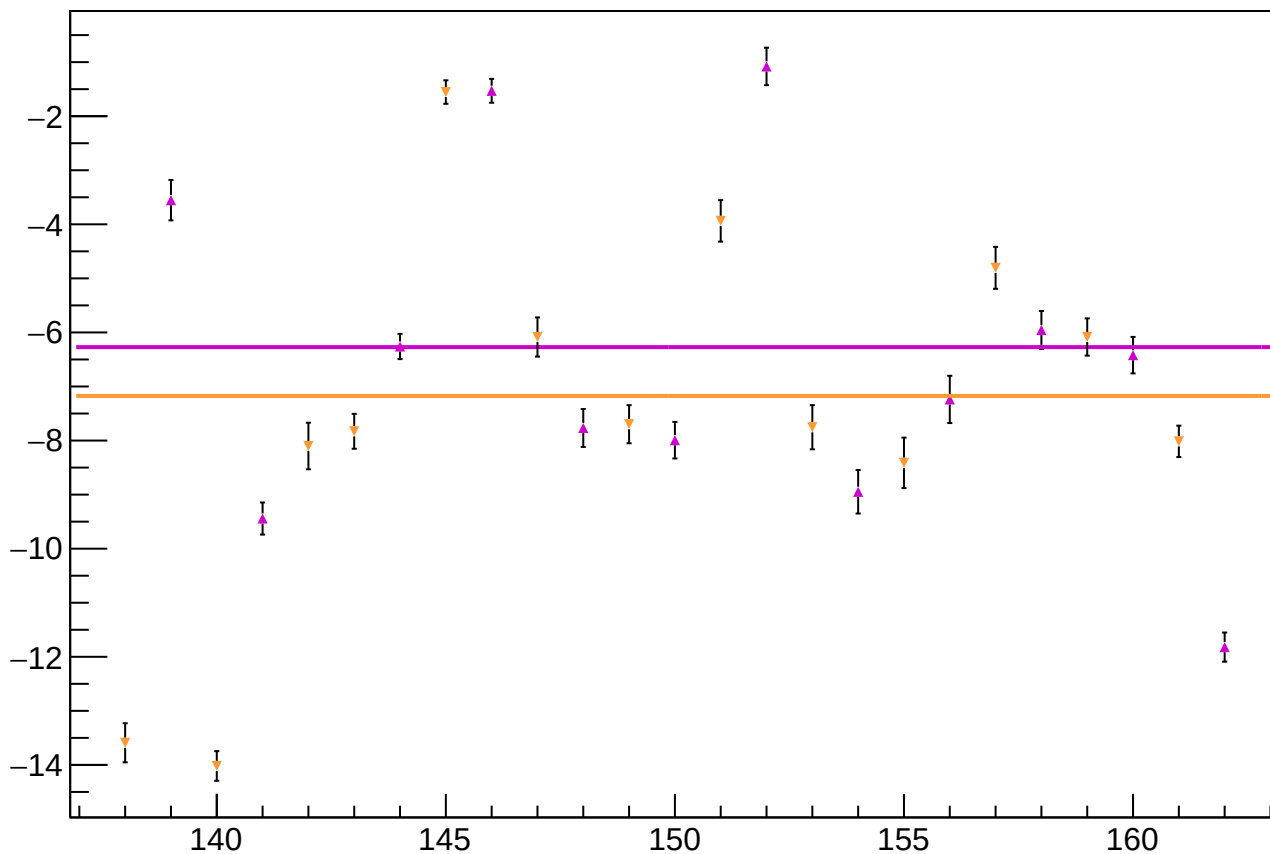
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.097 $\pm$ 0.011  $\chi^2$ /NDF:330.8/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.036 $\pm$ 0.010  $\chi^2$ /NDF:374.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.066 $\pm$ 0.007  $\chi^2$ /NDF: 721.9/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

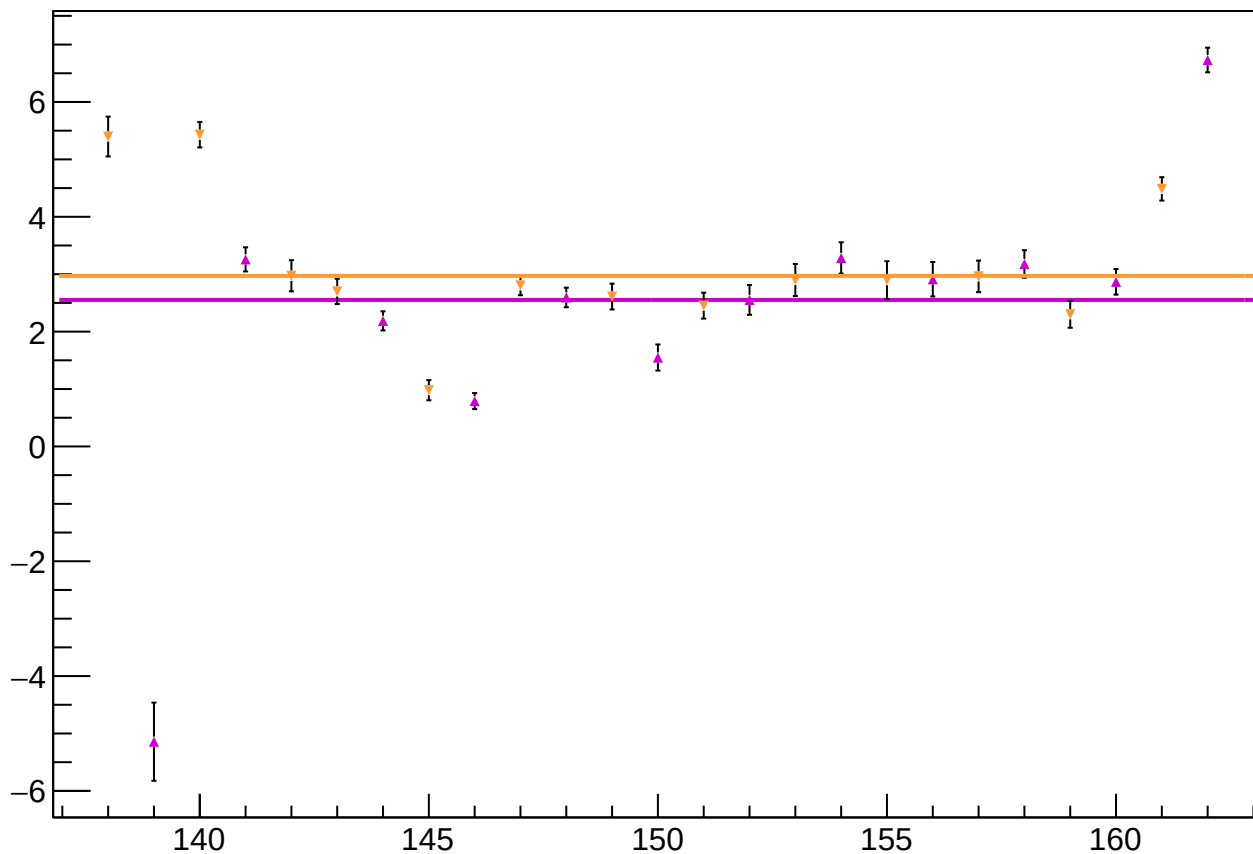
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.175+/-0.092  $\chi^2/\text{NDF}$ : 1762.9/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.271+/-0.090  $\chi^2/\text{NDF}$ : 1369.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -6.709+/-0.064  $\chi^2/\text{NDF}$ : 3181.7/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

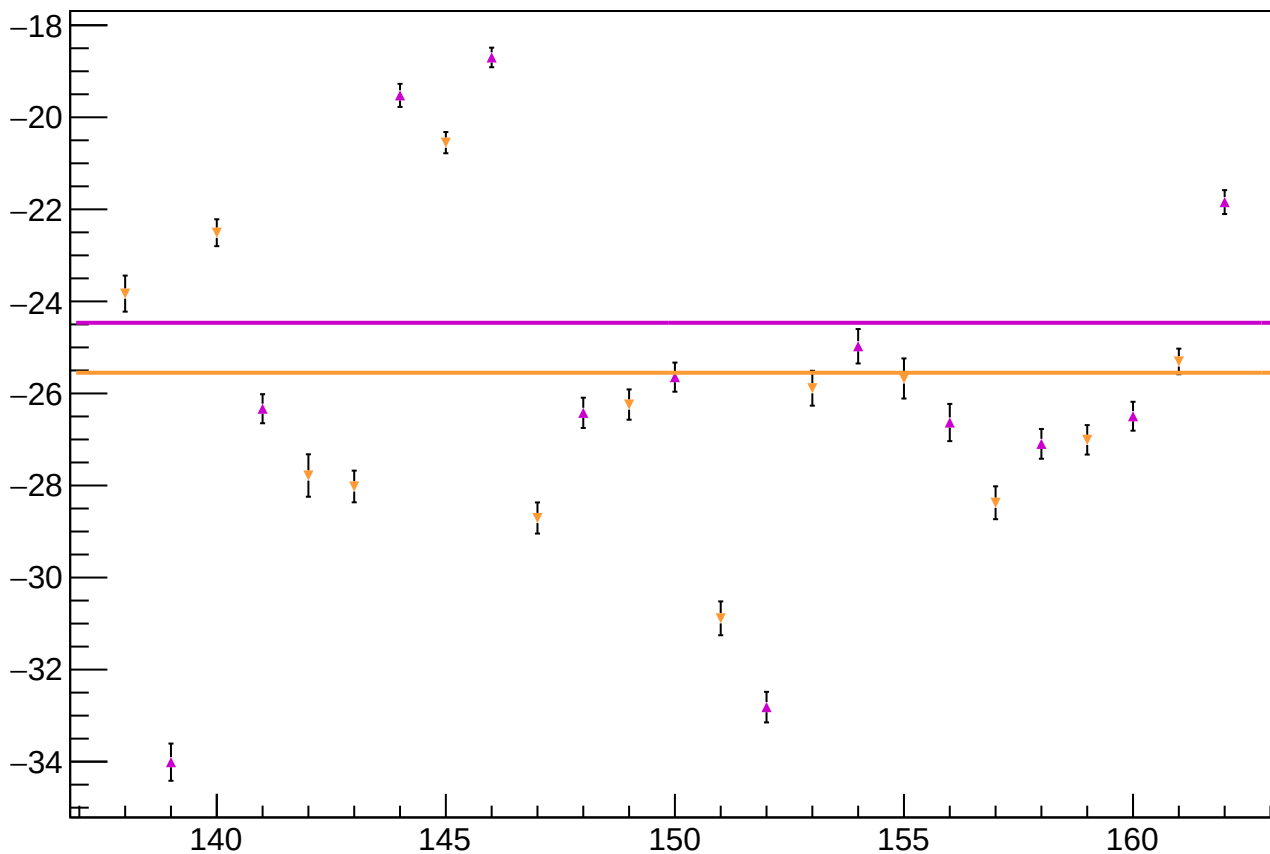
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.971 $\pm$ 0.064  $\chi^2$ /NDF:372.6/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.551 $\pm$ 0.062  $\chi^2$ /NDF:719.6/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 2.754 $\pm$ 0.044  $\chi^2$ /NDF: 1114.6/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.550+/-0.092  $\chi^2/\text{NDF}$ :1060.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

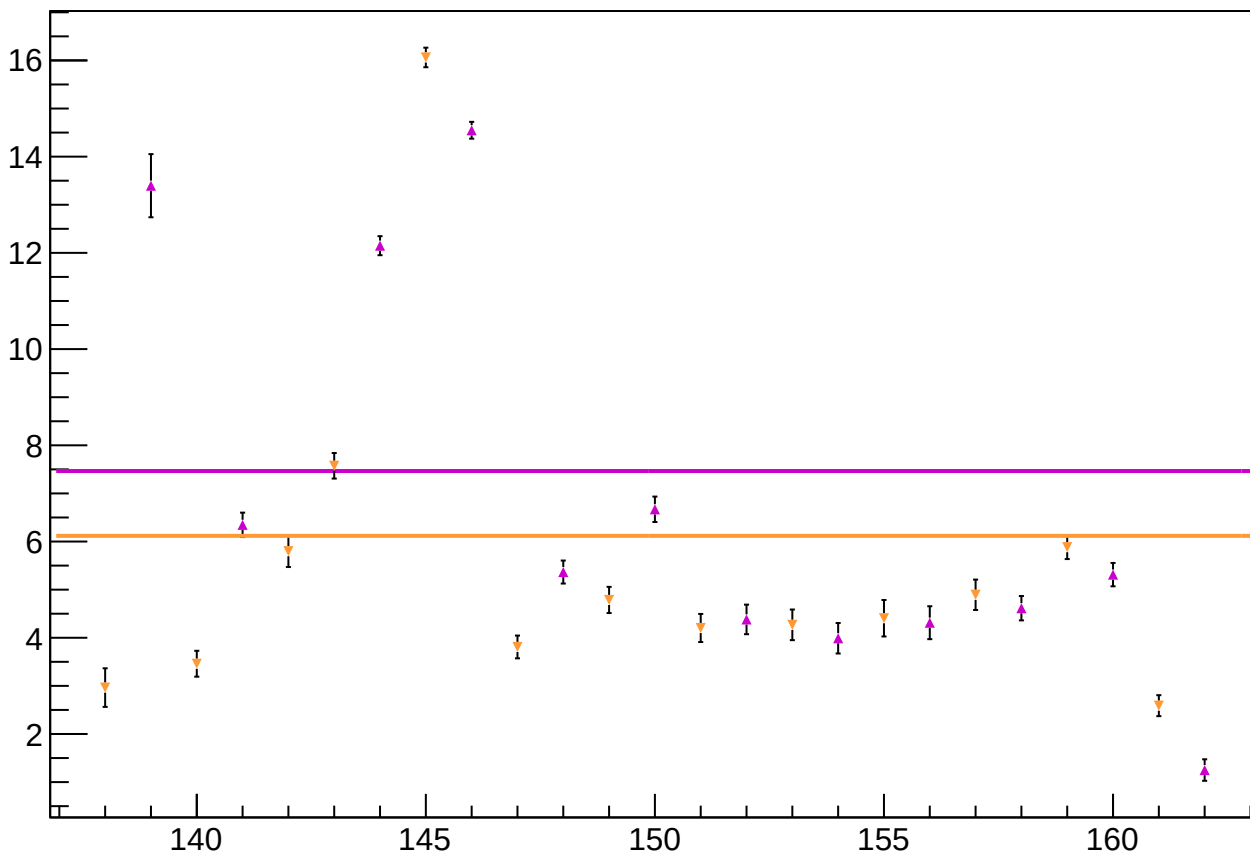
Left In: -24.465+/-0.088  $\chi^2/\text{NDF}$ :2639.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.981+/-0.063  $\chi^2/\text{NDF}$ : 3772.7/24

- 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: 6.118+/-0.076  $\chi^2/\text{NDF}$ : 3079.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

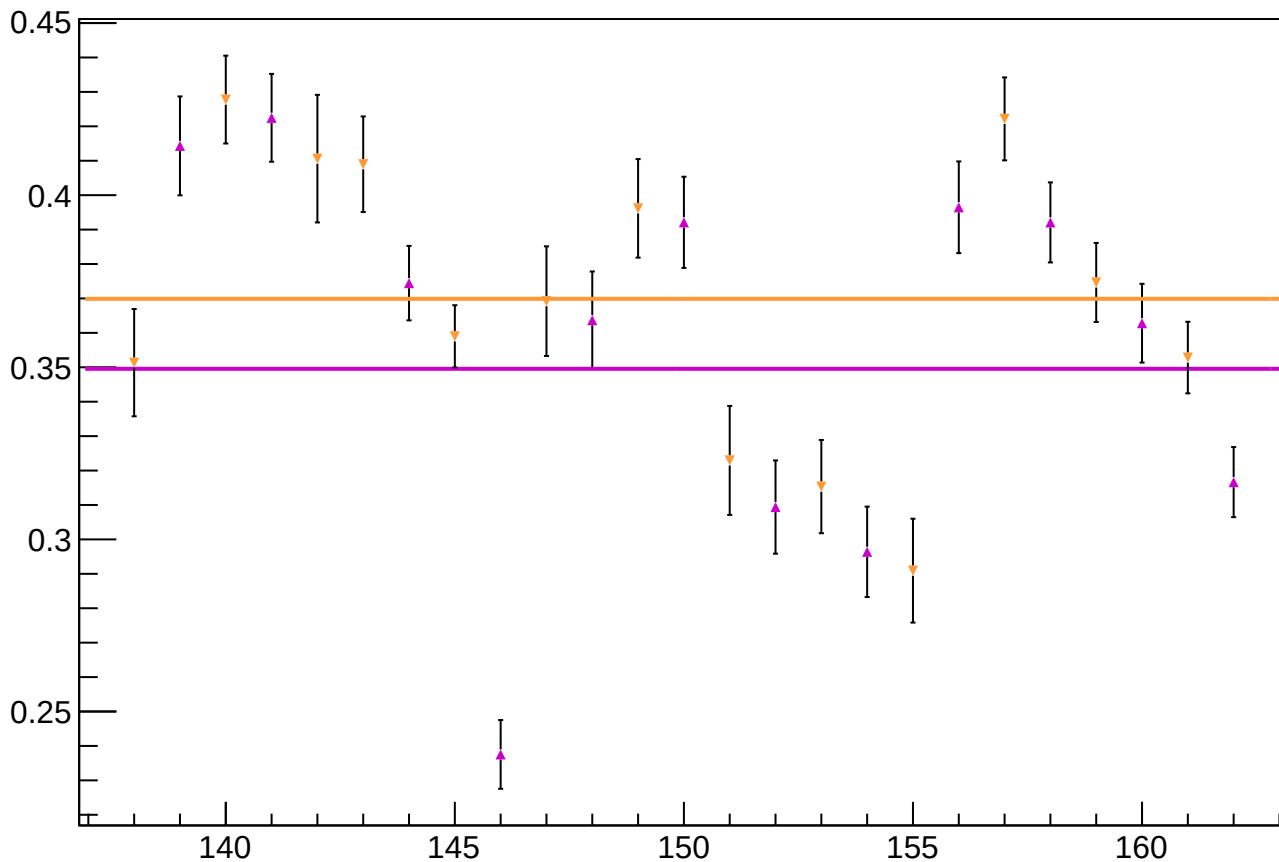
Left In: 7.466+/-0.073  $\chi^2/\text{NDF}$ : 3673.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.819+/-0.052  $\chi^2/\text{NDF}$ : 6917.5/24

- 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: 0.370 $\pm$ 0.004  $\chi^2$ /NDF:113.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

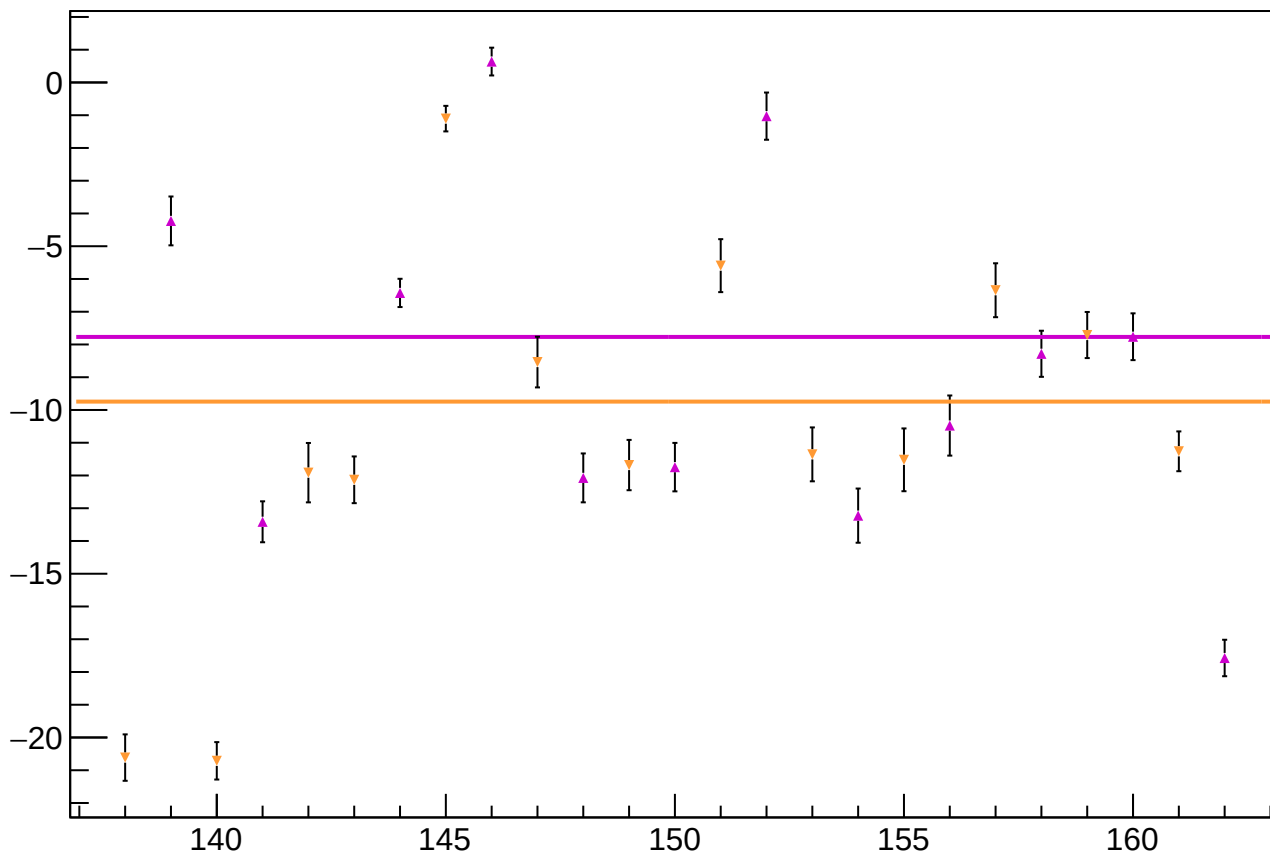
Left In: 0.350 $\pm$ 0.003  $\chi^2$ /NDF:258.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.359 $\pm$ 0.003  $\chi^2$ /NDF: 388.2/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

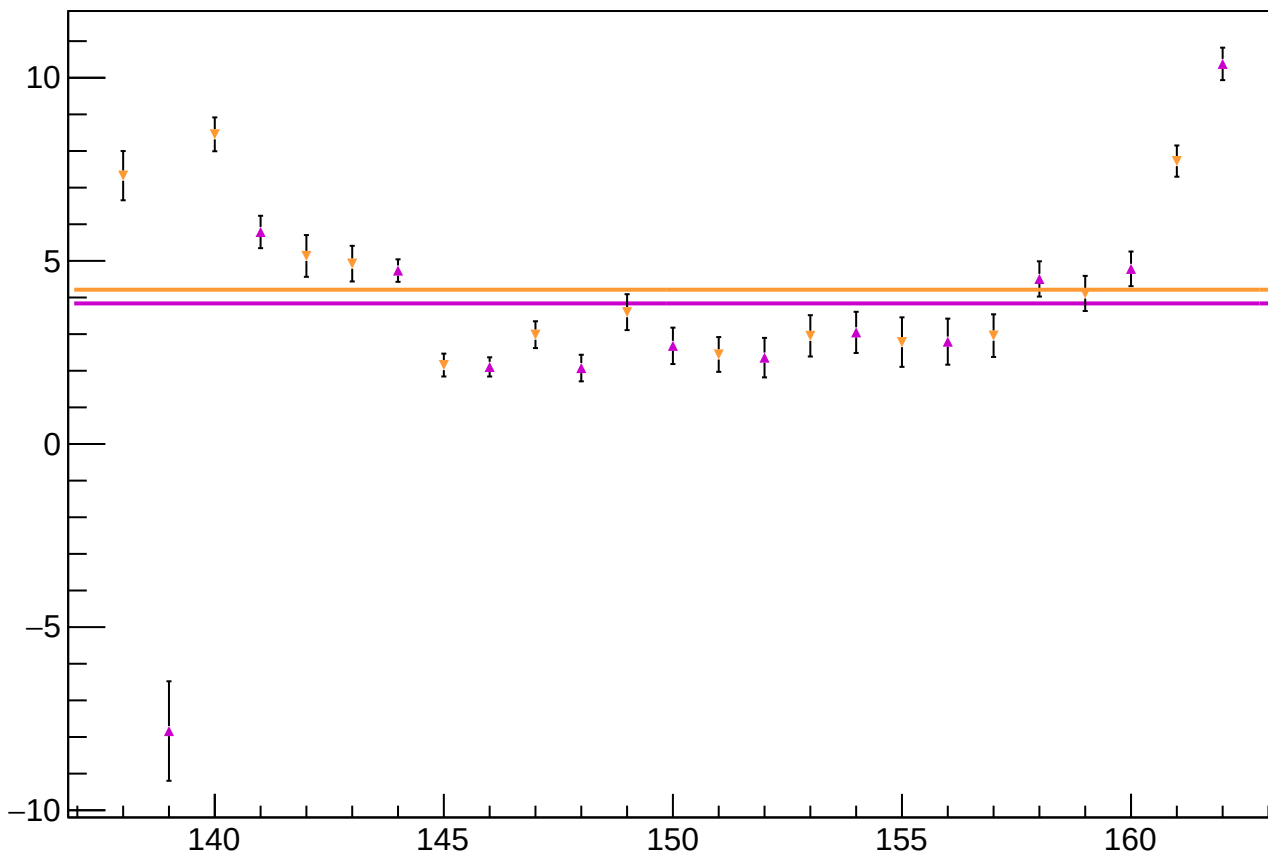
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.744 $\pm$ 0.187  $\chi^2$ /NDF:1185.3/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -7.769 $\pm$ 0.181  $\chi^2$ /NDF:1019.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -8.720 $\pm$ 0.130  $\chi^2$ /NDF: 2262.0/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4.213 $\pm$ 0.131  $\chi^2$ /NDF: 262.6/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3.838 $\pm$ 0.124  $\chi^2$ /NDF: 410.7/11

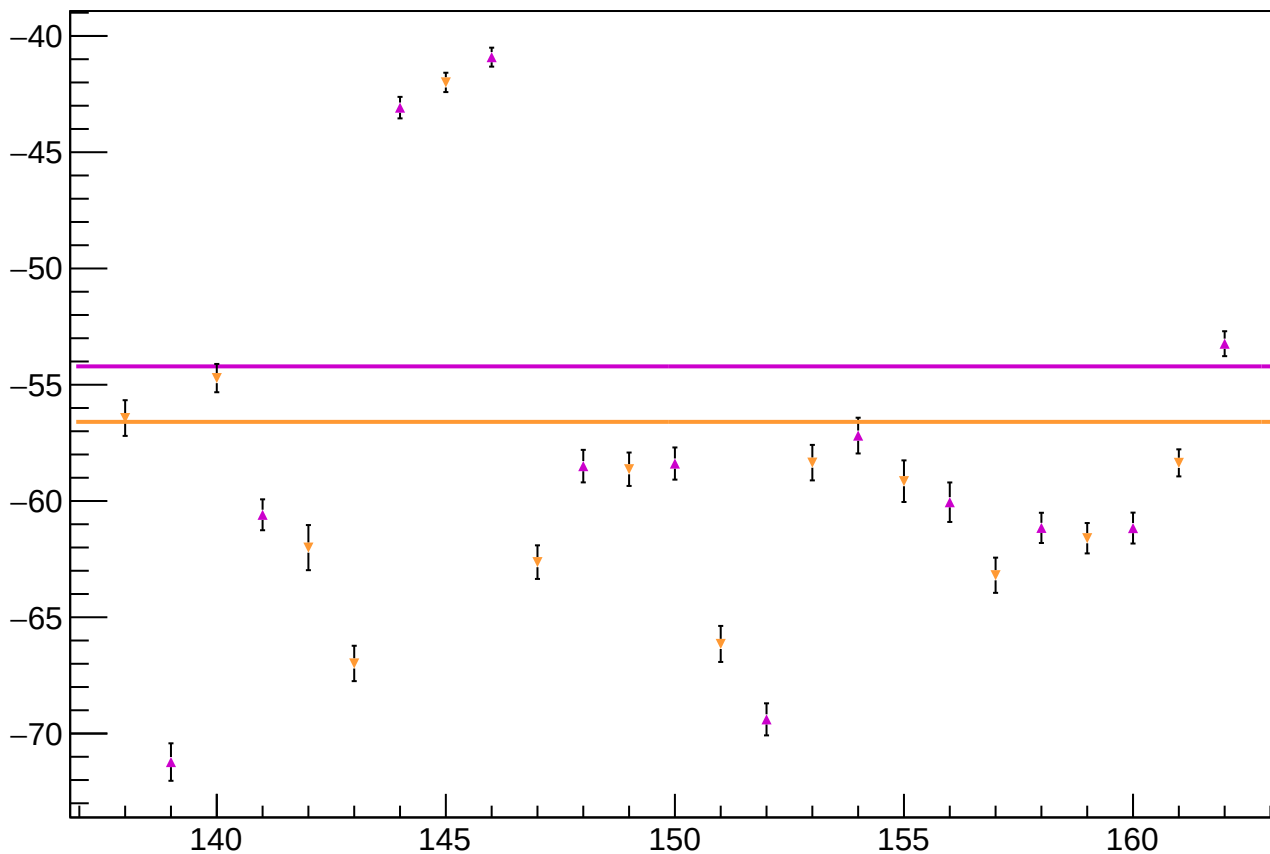
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.015 $\pm$ 0.090  $\chi^2$ /NDF: 677.7/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -56.596+/-0.187  $\chi^2/\text{NDF}$ :1846.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

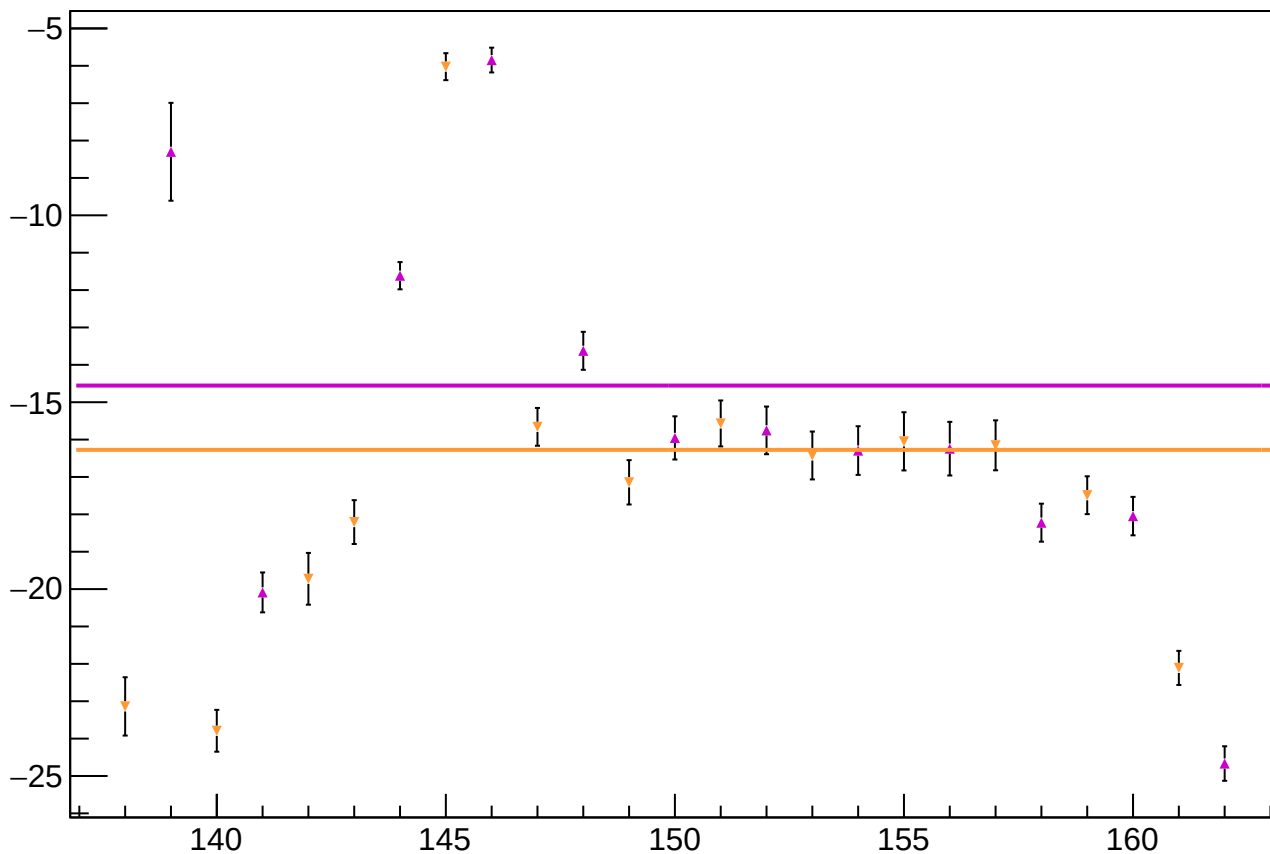
Left In: -54.210+/-0.177  $\chi^2/\text{NDF}$ :3028.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.336+/-0.129  $\chi^2/\text{NDF}$ : 4960.6/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-16.275 \pm 0.154$   $\chi^2/\text{NDF}: 1274.8/12$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

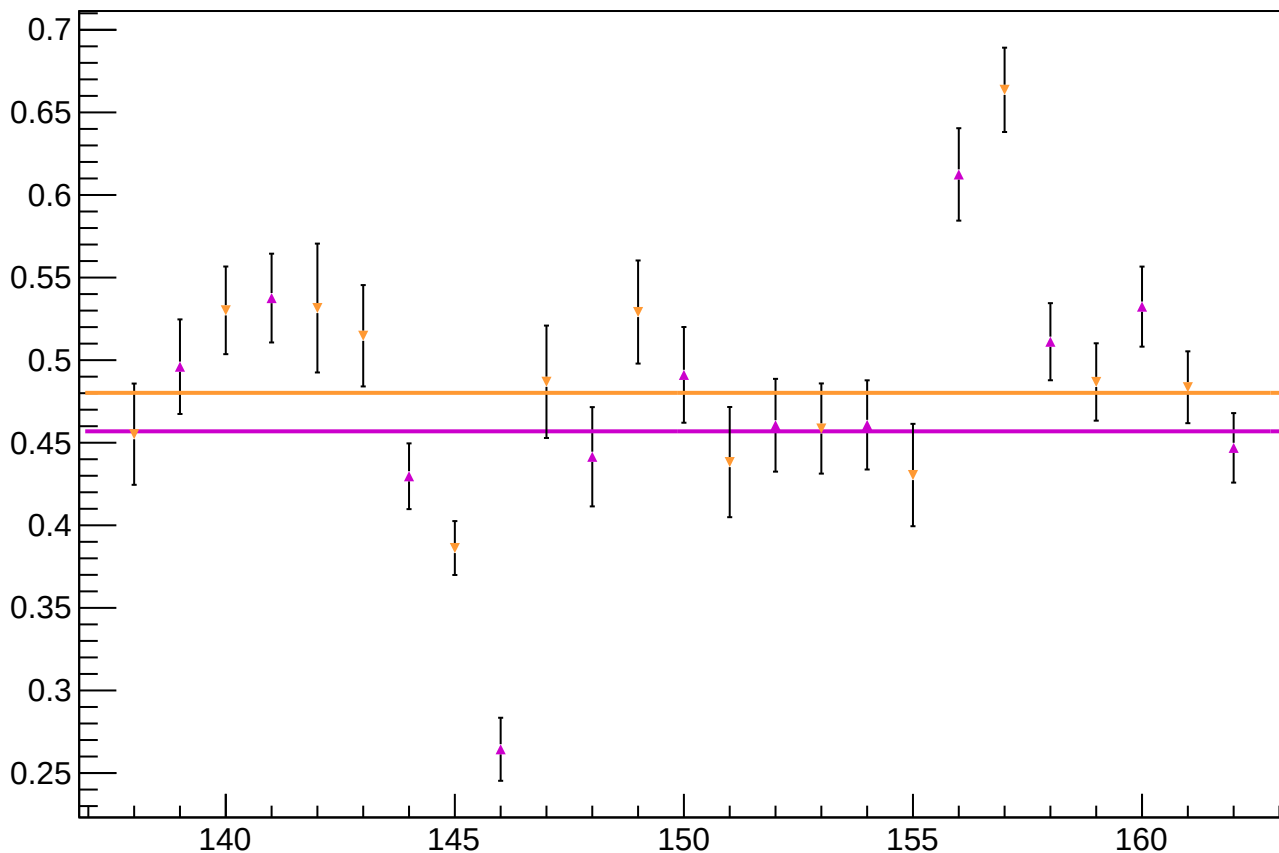
Left In:  $-14.555 \pm 0.146$   $\chi^2/\text{NDF}: 1489.9/11$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-15.368 \pm 0.106$   $\chi^2/\text{NDF}: 2830.1/24$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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: 0.480 $\pm$ 0.007  $\chi^2$ /NDF:99.4/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

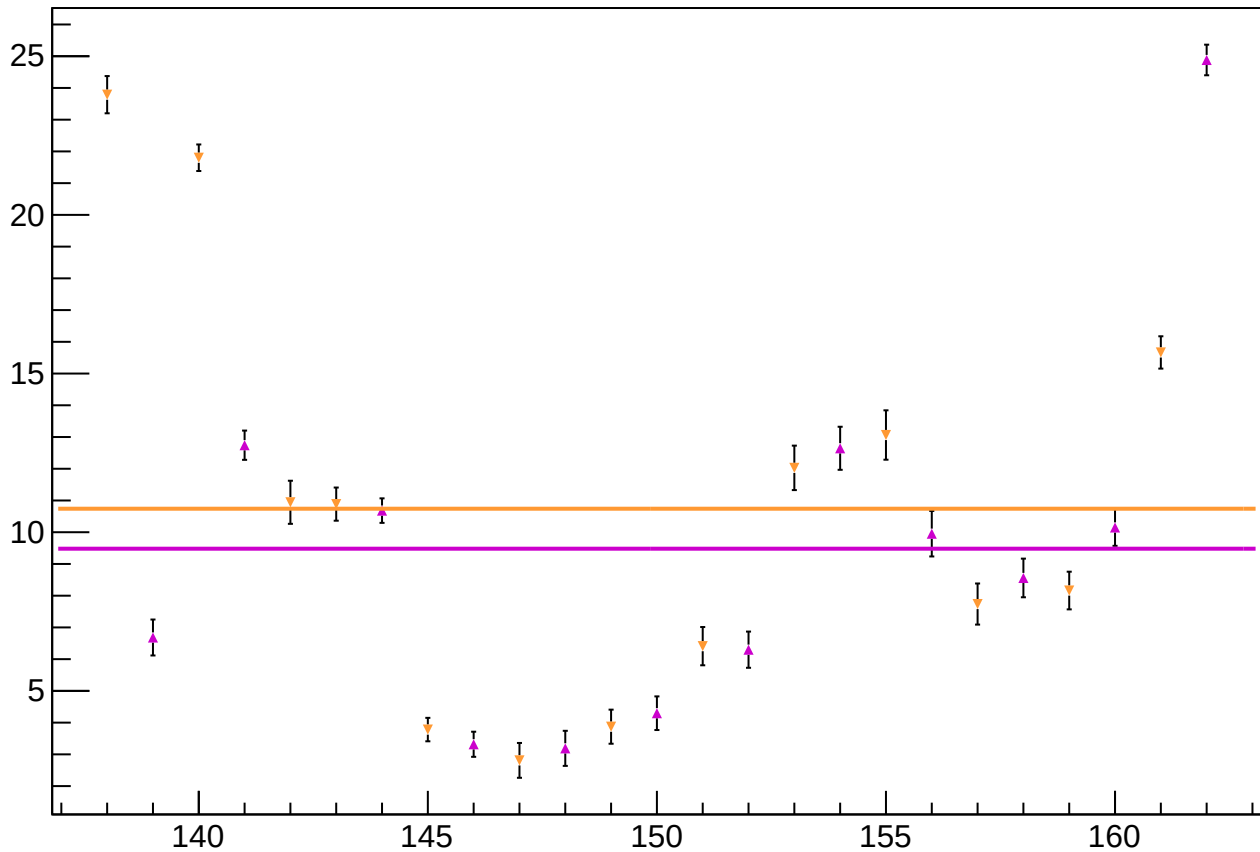
Left In: 0.457 $\pm$ 0.007  $\chi^2$ /NDF:162.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.468 $\pm$ 0.005  $\chi^2$ /NDF: 267.0/24

- 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: 10.741+/-0.151  $\chi^2/\text{NDF}$ : 2118.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

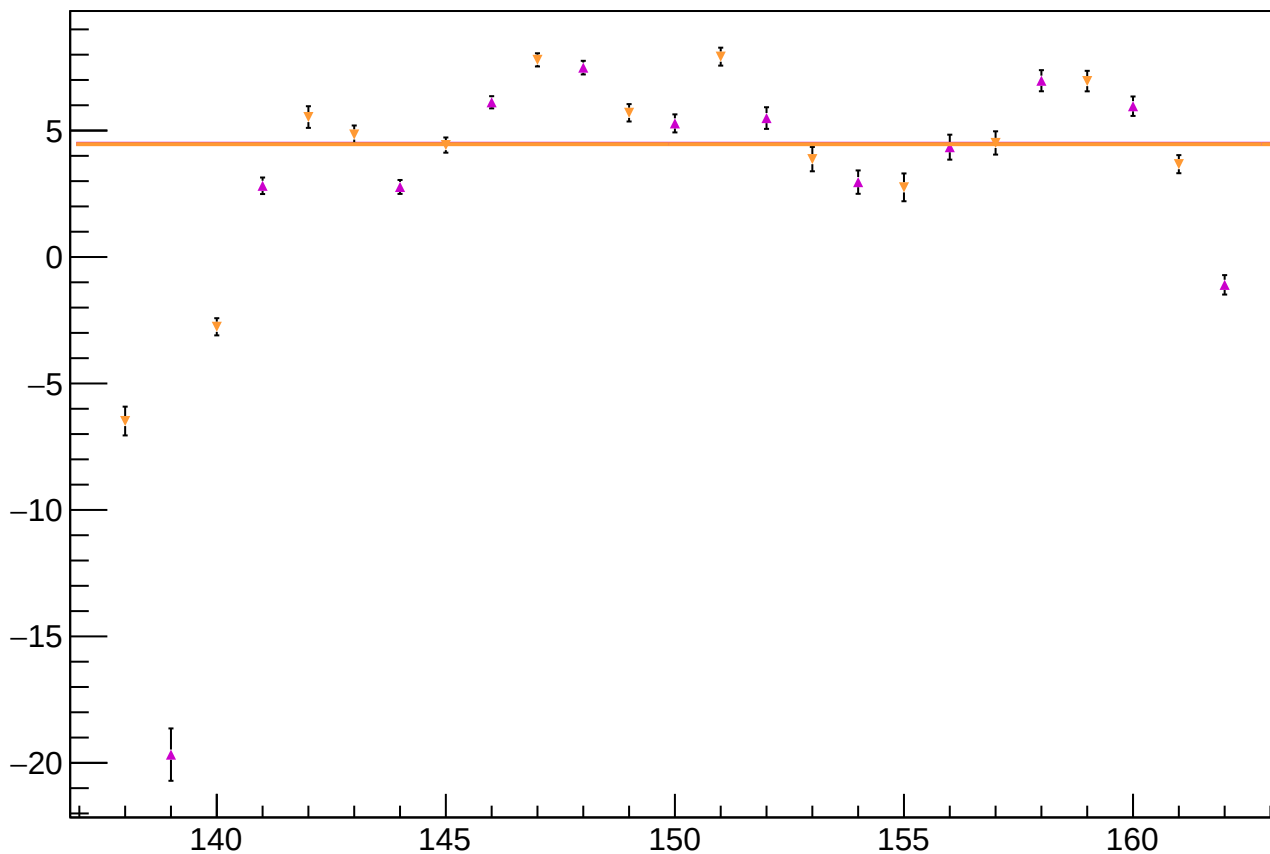
Left In: 9.481+/-0.149  $\chi^2/\text{NDF}$ : 1628.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.105+/-0.106  $\chi^2/\text{NDF}$ : 3783.0/24

- 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: 4.462 $\pm$ 0.103  $\chi^2$ /NDF:1154.9/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

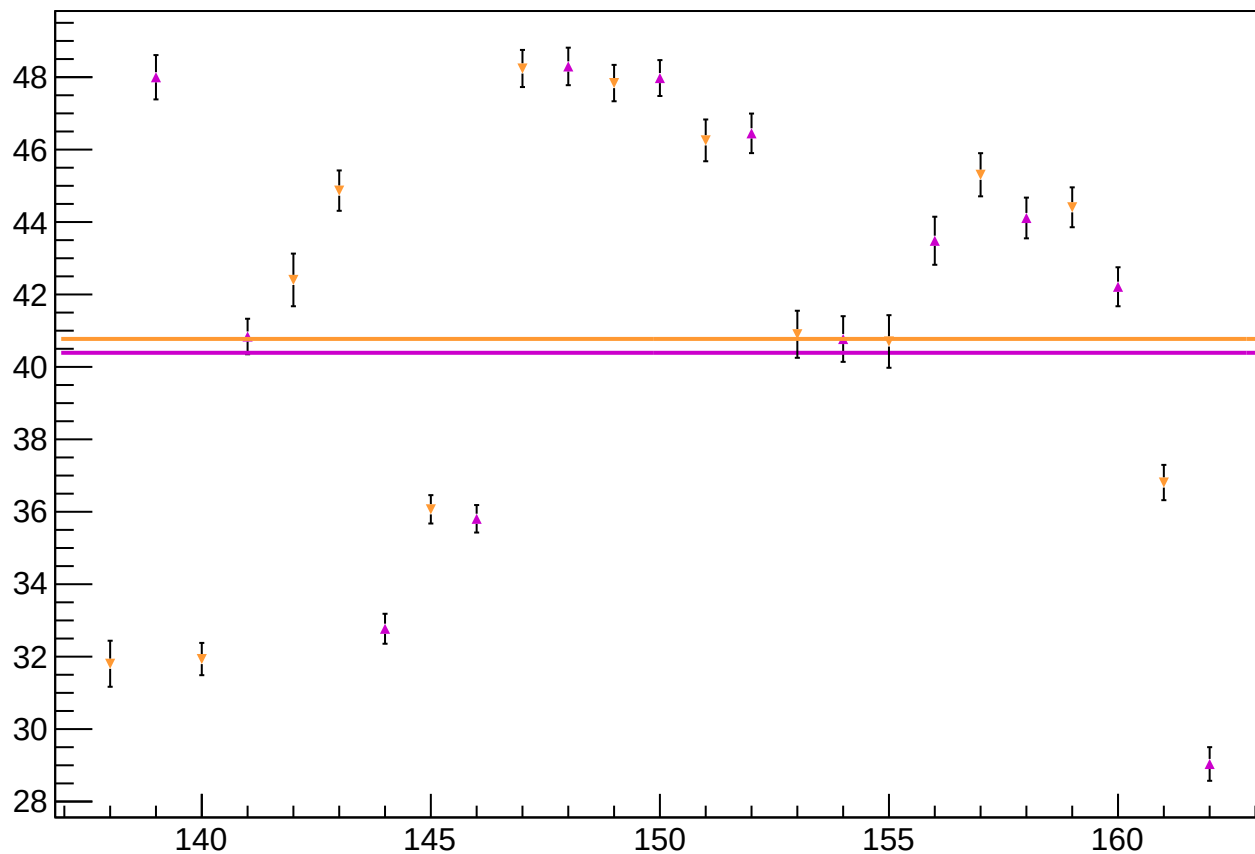
Left In: 4.476 $\pm$ 0.102  $\chi^2$ /NDF:1062.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4.469 $\pm$ 0.073  $\chi^2$ /NDF: 2216.9/24

- 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+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.773+/-0.150  $\chi^2/\text{NDF}$ :1464.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

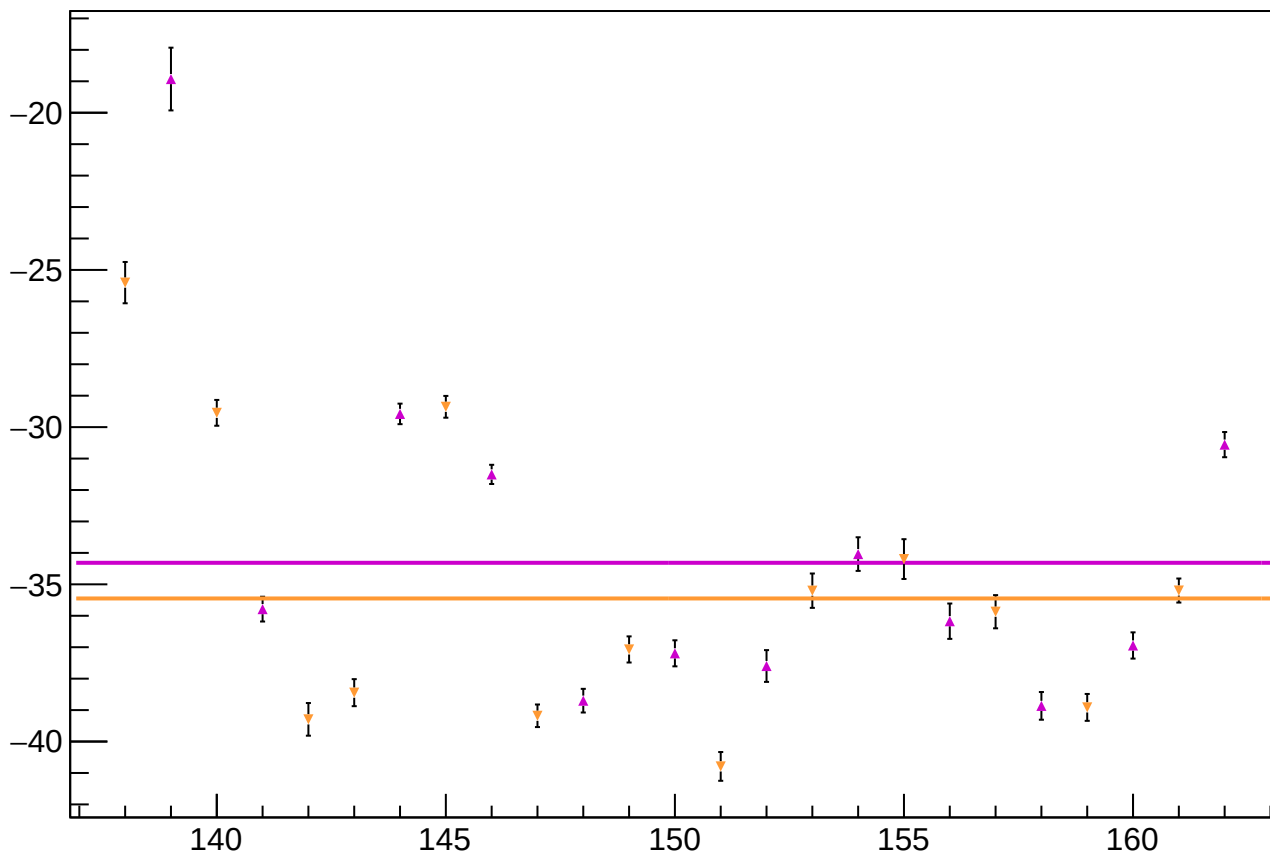
Left In: 40.389+/-0.146  $\chi^2/\text{NDF}$ :1905.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.576+/-0.105  $\chi^2/\text{NDF}$ : 3373.2/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-35.450 \pm 0.123$   $\chi^2/\text{NDF}$ : 1183.8/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

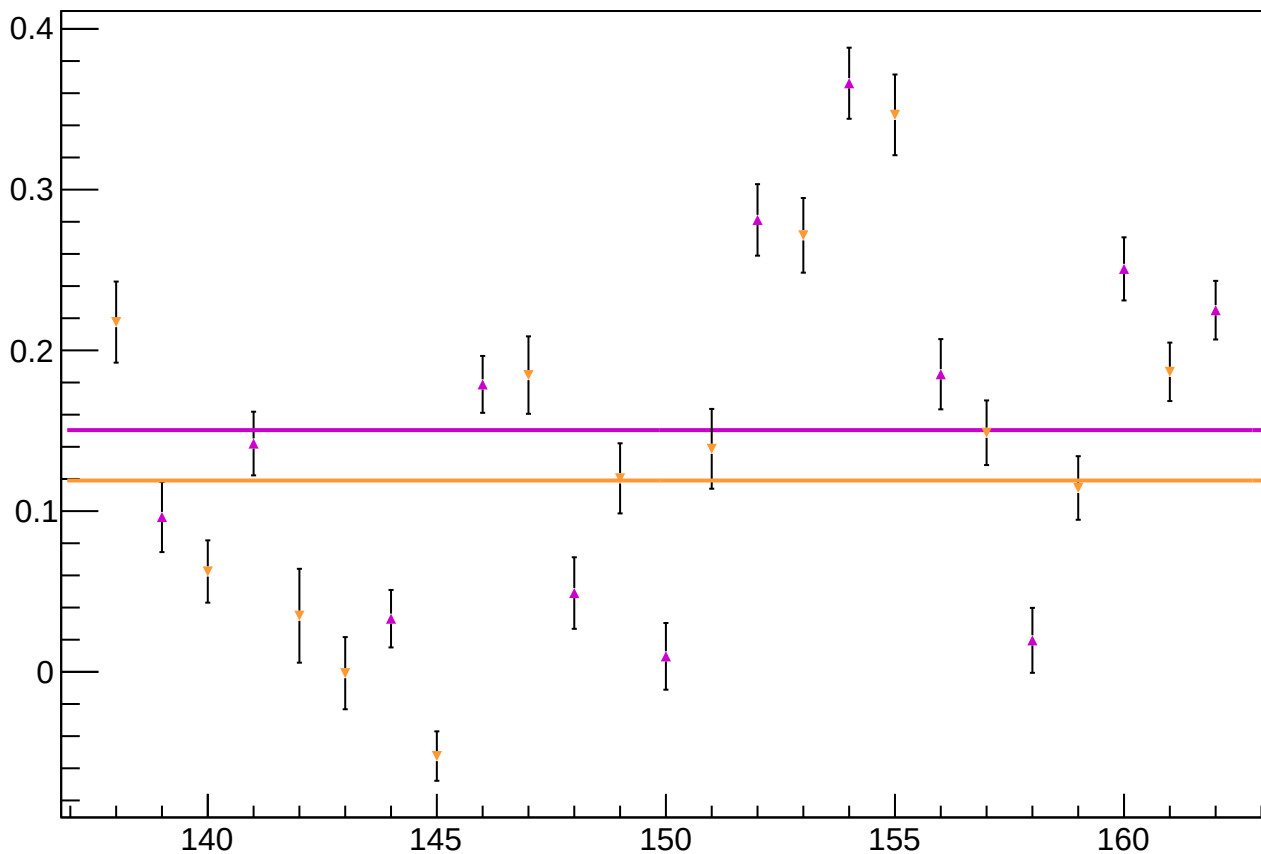
Left In:  $-34.315 \pm 0.121$   $\chi^2/\text{NDF}$ : 1019.0/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-34.872 \pm 0.086$   $\chi^2/\text{NDF}$ : 2245.9/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug

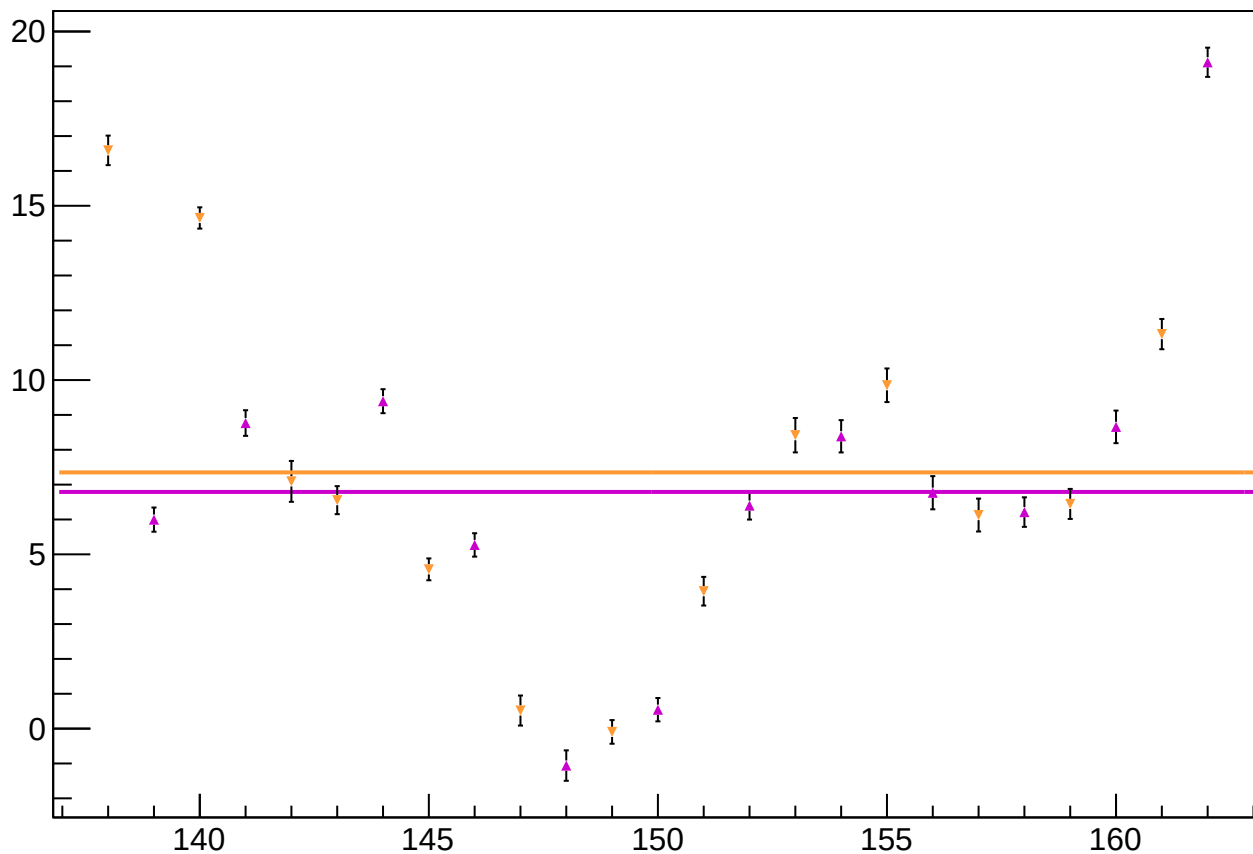


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.119+/-0.006  $\chi^2/\text{NDF}$ : 334.1/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.150+/-0.006  $\chi^2/\text{NDF}$ : 335.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.135+/-0.004  $\chi^2/\text{NDF}$ : 684.2/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



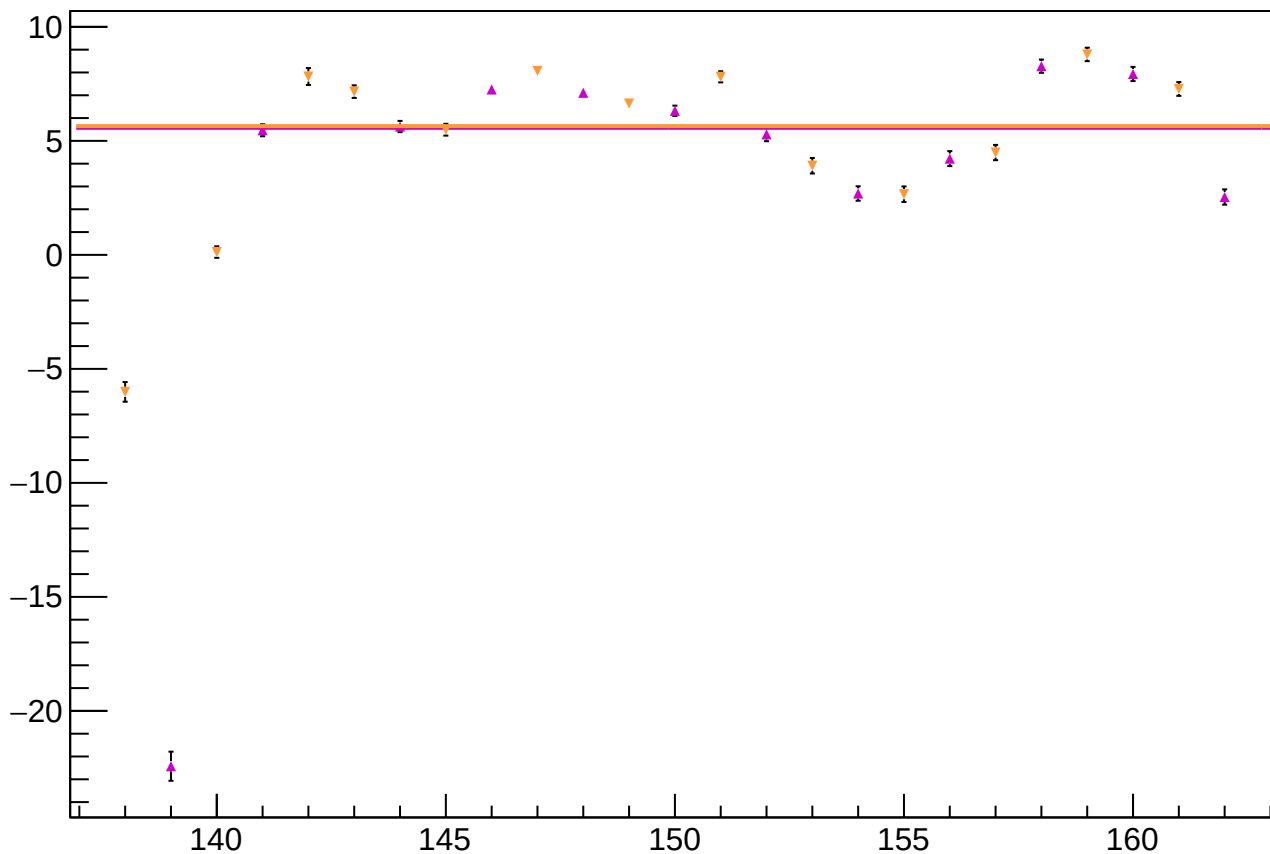
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 7.351 $\pm$ 0.112  $\chi^2$ /NDF:2058.1/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 6.790 $\pm$ 0.113  $\chi^2$ /NDF:1677.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 7.072 $\pm$ 0.080  $\chi^2$ /NDF: 3747.8/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

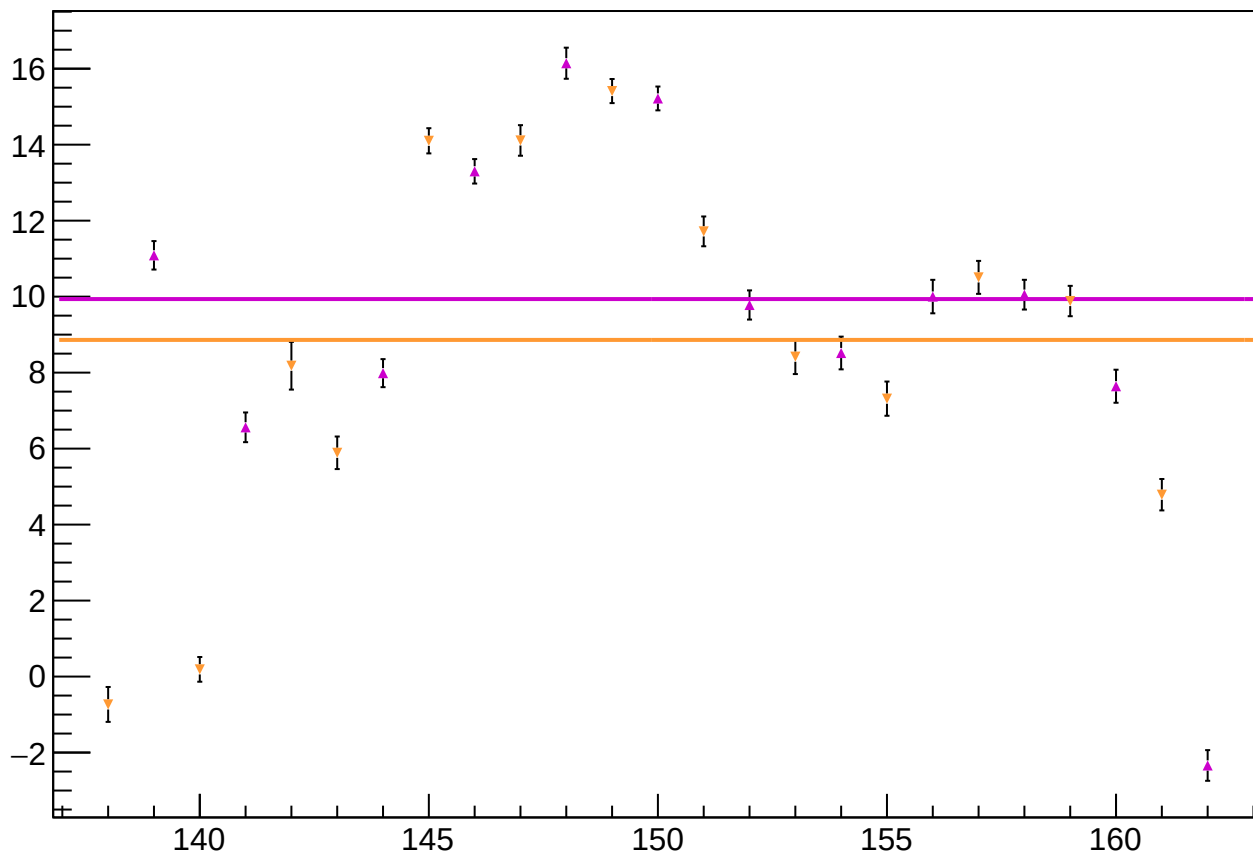
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.649+/-0.078  $\chi^2/\text{NDF}$ :1764.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.573+/-0.080  $\chi^2/\text{NDF}$ :2370.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 5.612+/-0.056  $\chi^2/\text{NDF}$ : 4134.8/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

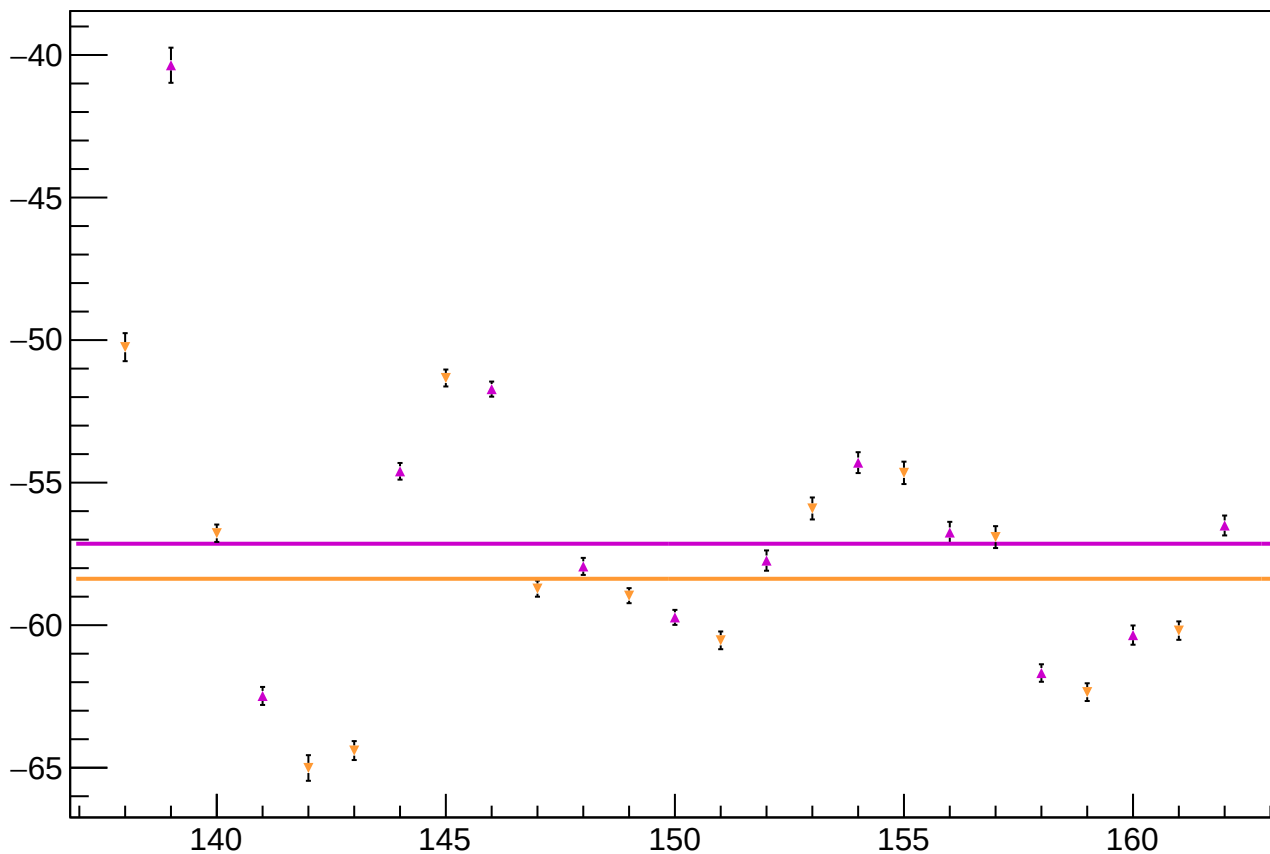
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.861 $\pm$ 0.111  $\chi^2$ /NDF:2226.1/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 9.936 $\pm$ 0.110  $\chi^2$ /NDF:1698.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 9.402 $\pm$ 0.078  $\chi^2$ /NDF: 3971.2/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -58.372+/-0.092  $\chi^2/\text{NDF}$ :1804.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

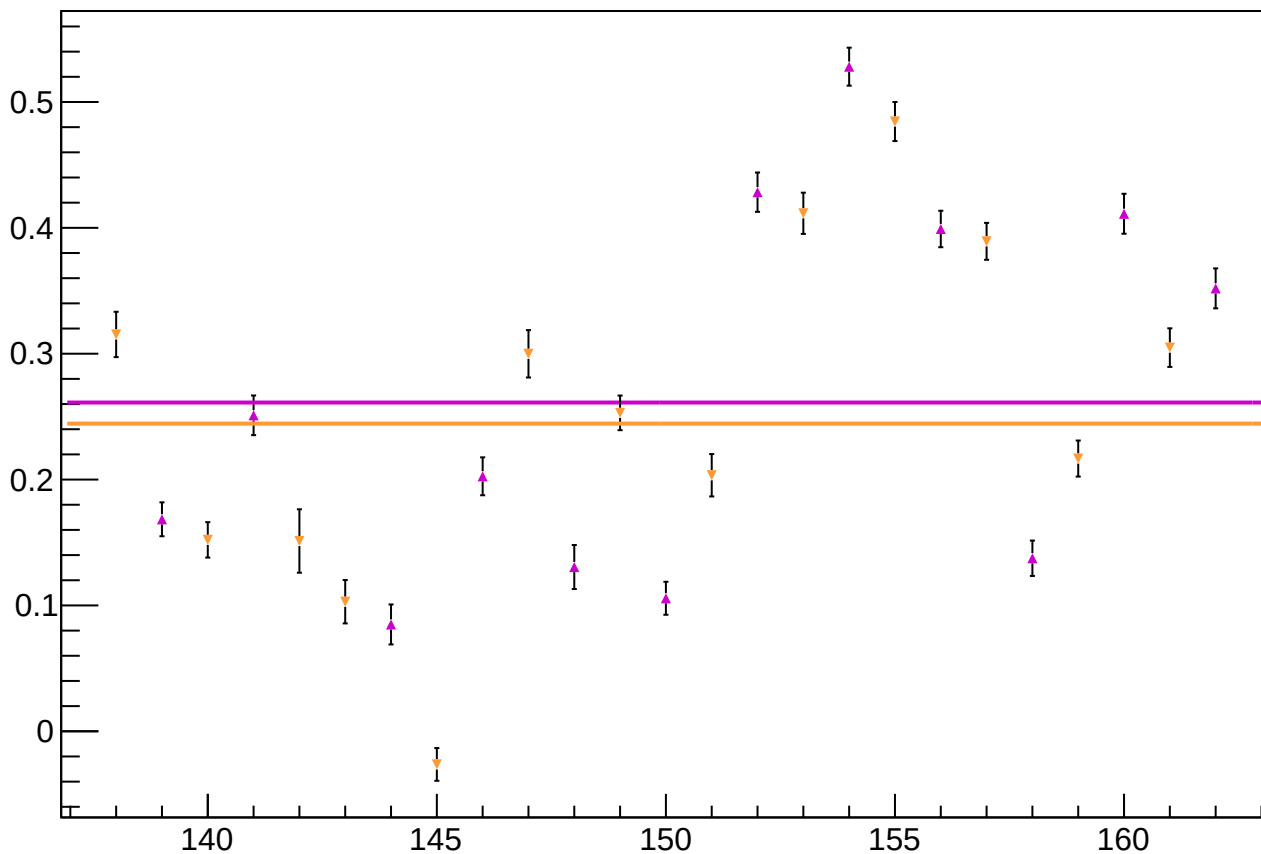
Left In: -57.143+/-0.094  $\chi^2/\text{NDF}$ :2000.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.766+/-0.066  $\chi^2/\text{NDF}$ : 3892.6/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

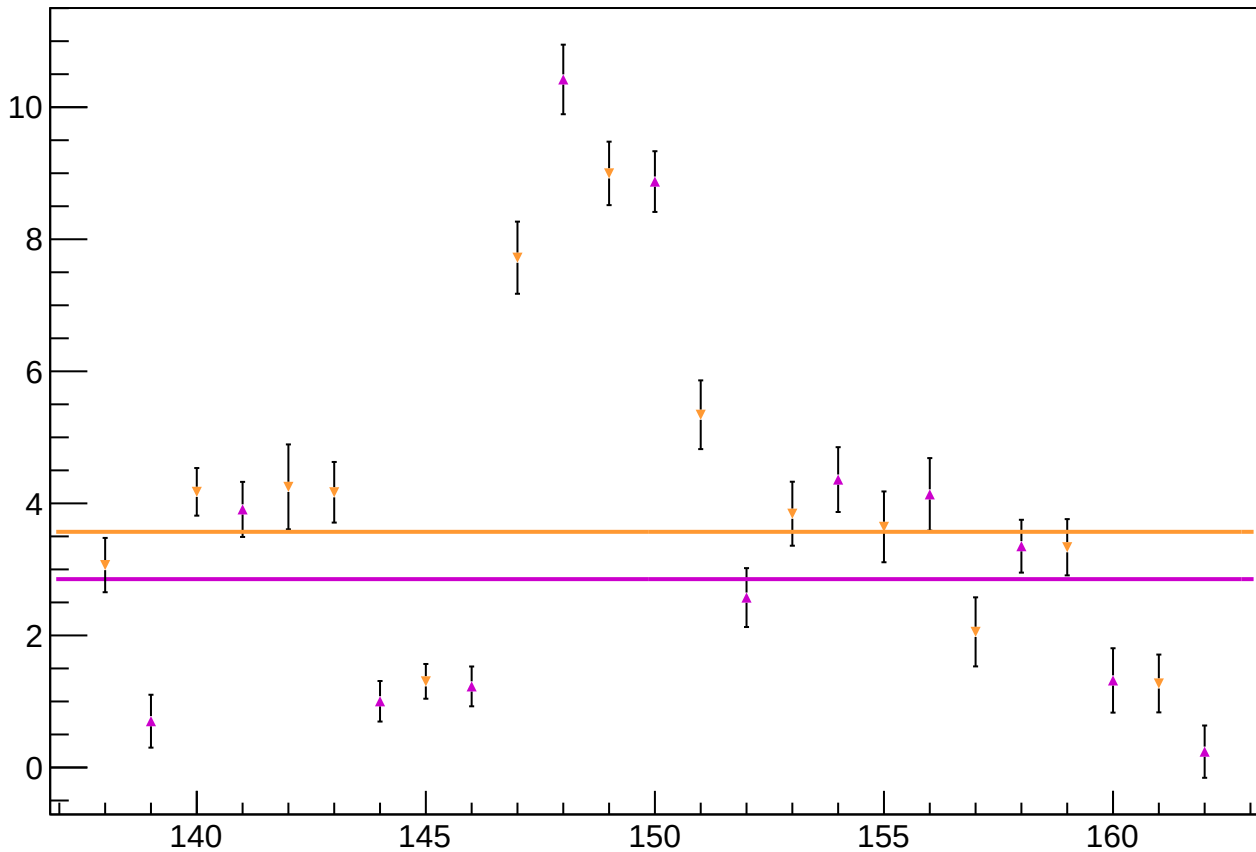
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.244 $\pm$ 0.004  $\chi^2$ /NDF:1048.0/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.261 $\pm$ 0.004  $\chi^2$ /NDF:1100.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.253 $\pm$ 0.003  $\chi^2$ /NDF: 2155.4/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

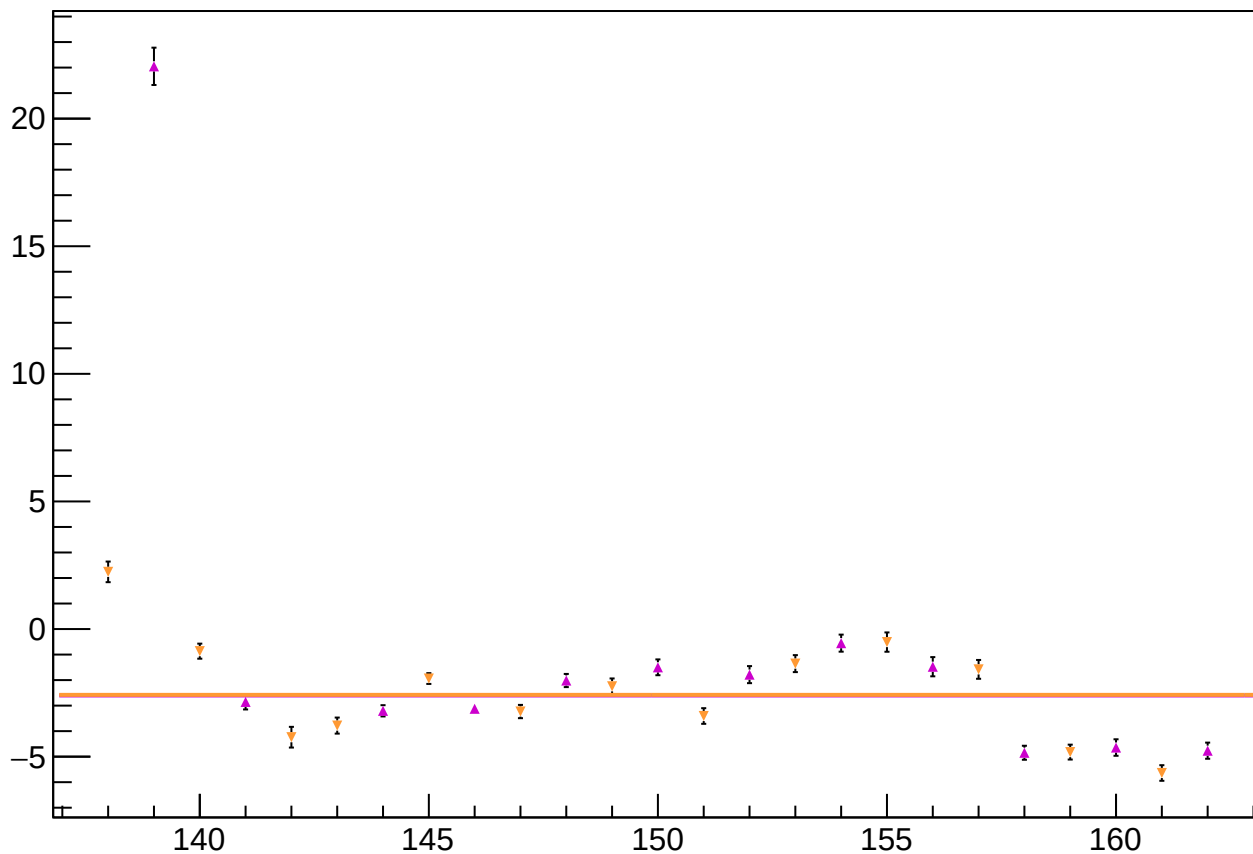
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.569 $\pm$ 0.121  $\chi^2$ /NDF:314.8/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.853 $\pm$ 0.118  $\chi^2$ /NDF:548.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 3.204 $\pm$ 0.085  $\chi^2$ /NDF: 881.5/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

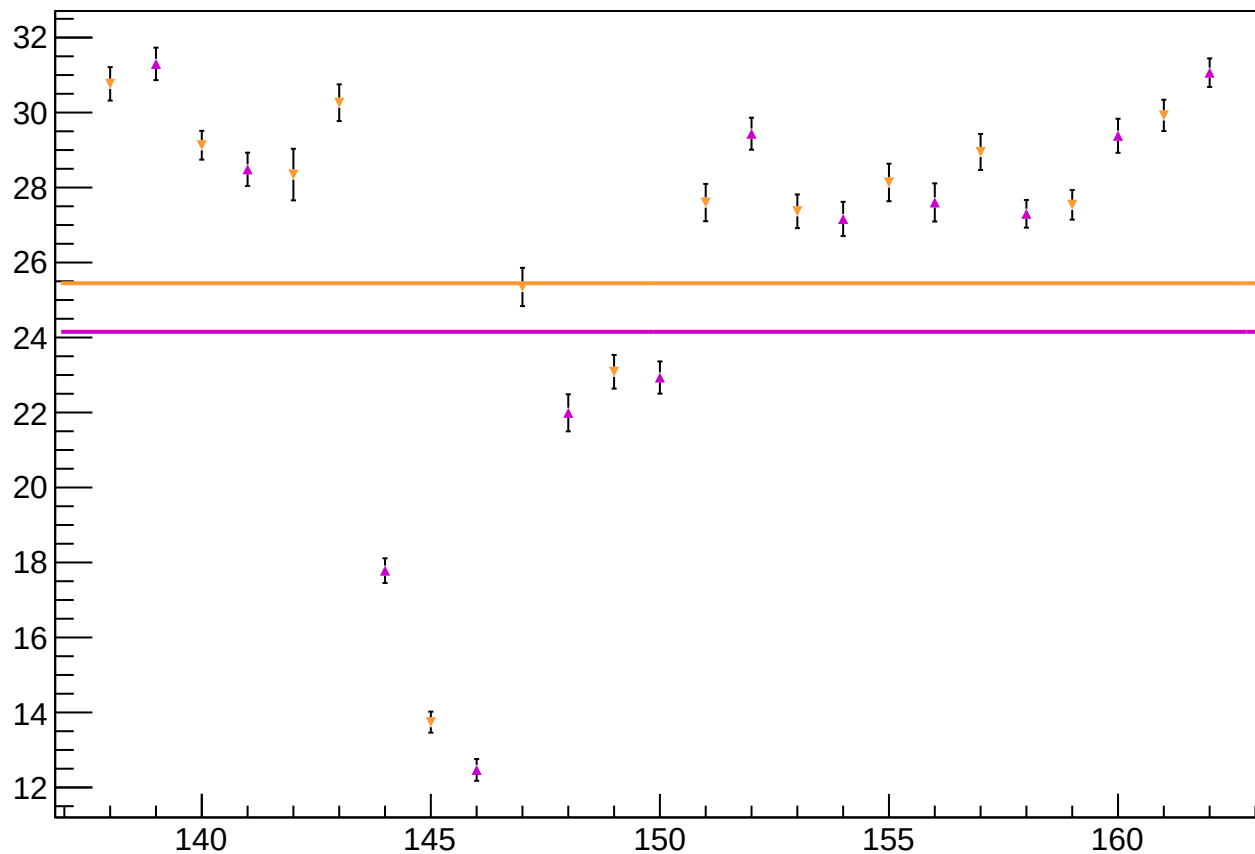
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.579 $\pm$ 0.085  $\chi^2$ /NDF:441.3/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.602 $\pm$ 0.083  $\chi^2$ /NDF:1376.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -2.591 $\pm$ 0.060  $\chi^2$ /NDF: 1817.8/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 25.447+/-0.120  $\chi^2/\text{NDF}$ :2381.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 24.152+/-0.116  $\chi^2/\text{NDF}$ :3169.6/11

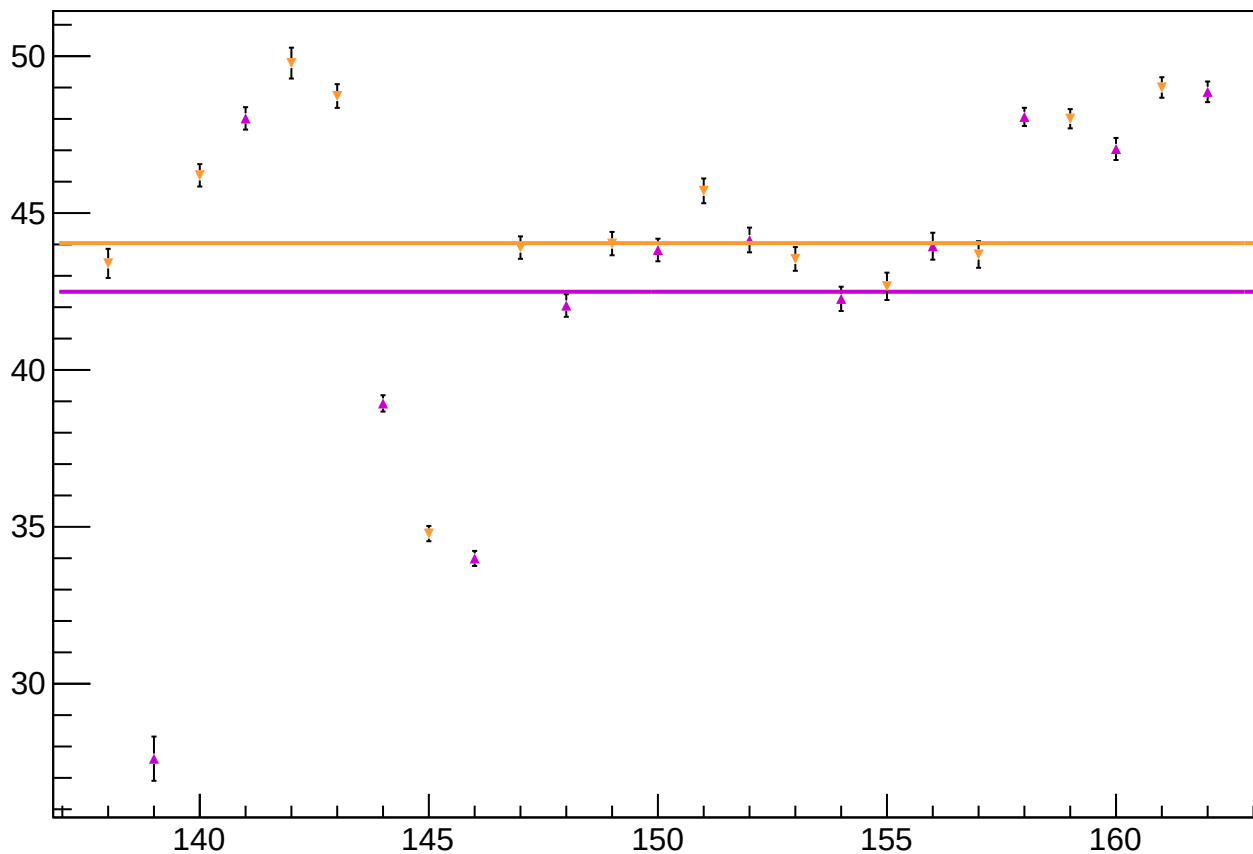
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.776+/-0.084  $\chi^2/\text{NDF}$ : 5610.6/24

- 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: 44.043+/-0.100  $\chi^2/\text{NDF}$ : 2195.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

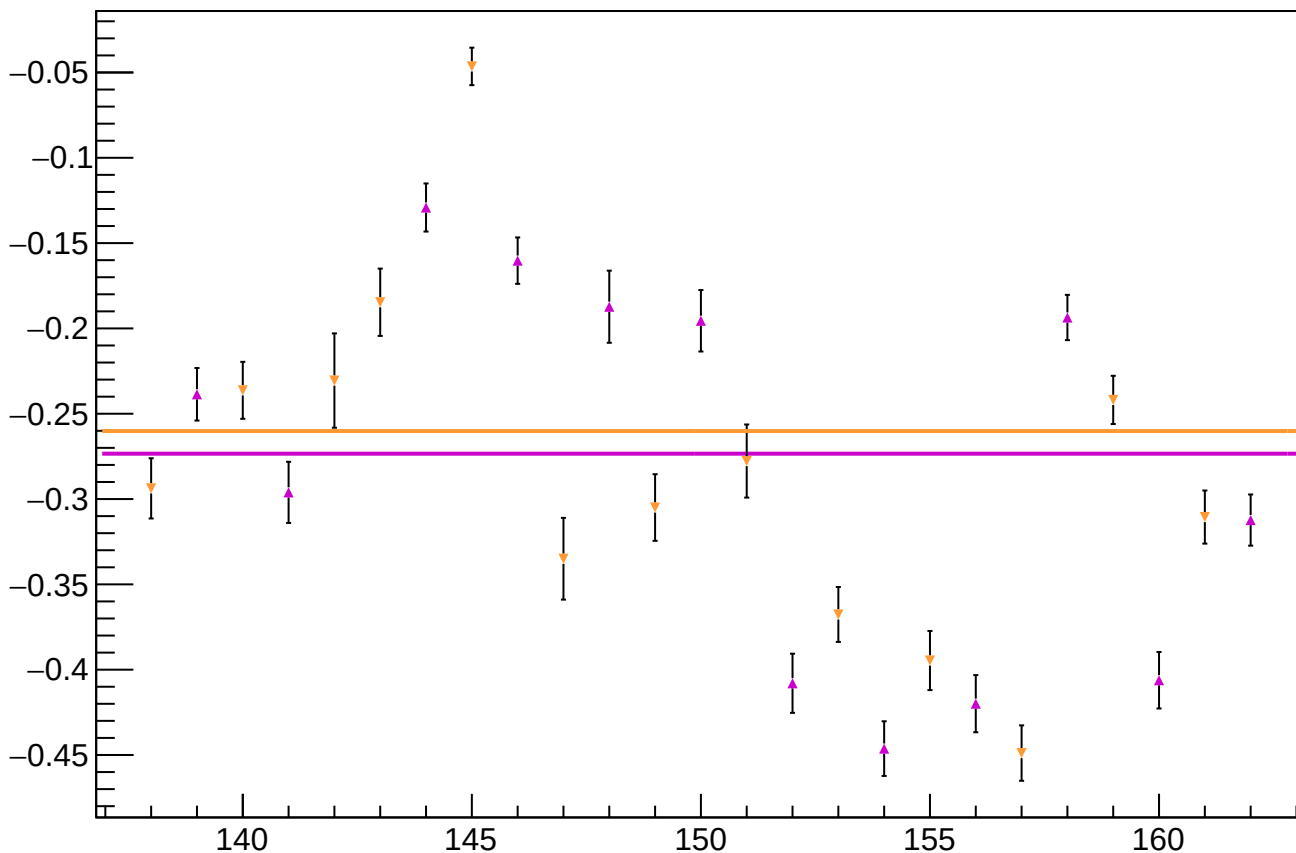
Left In: 42.492+/-0.098  $\chi^2/\text{NDF}$ : 3076.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.247+/-0.070  $\chi^2/\text{NDF}$ : 5395.2/24

- 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 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.260 $\pm$ 0.005  $\chi^2$ /NDF:667.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

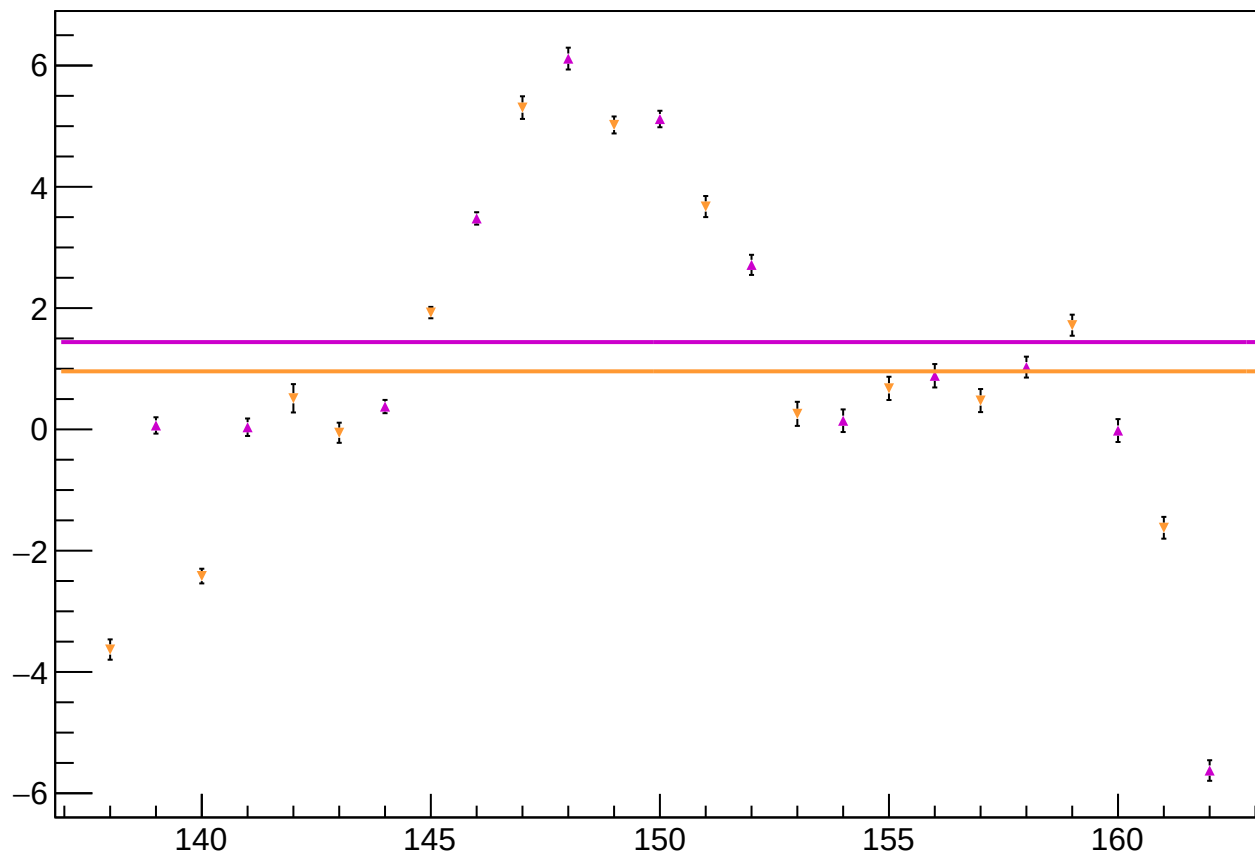
Left In: -0.273 $\pm$ 0.005  $\chi^2$ /NDF:576.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.267 $\pm$ 0.003  $\chi^2$ /NDF: 1248.2/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

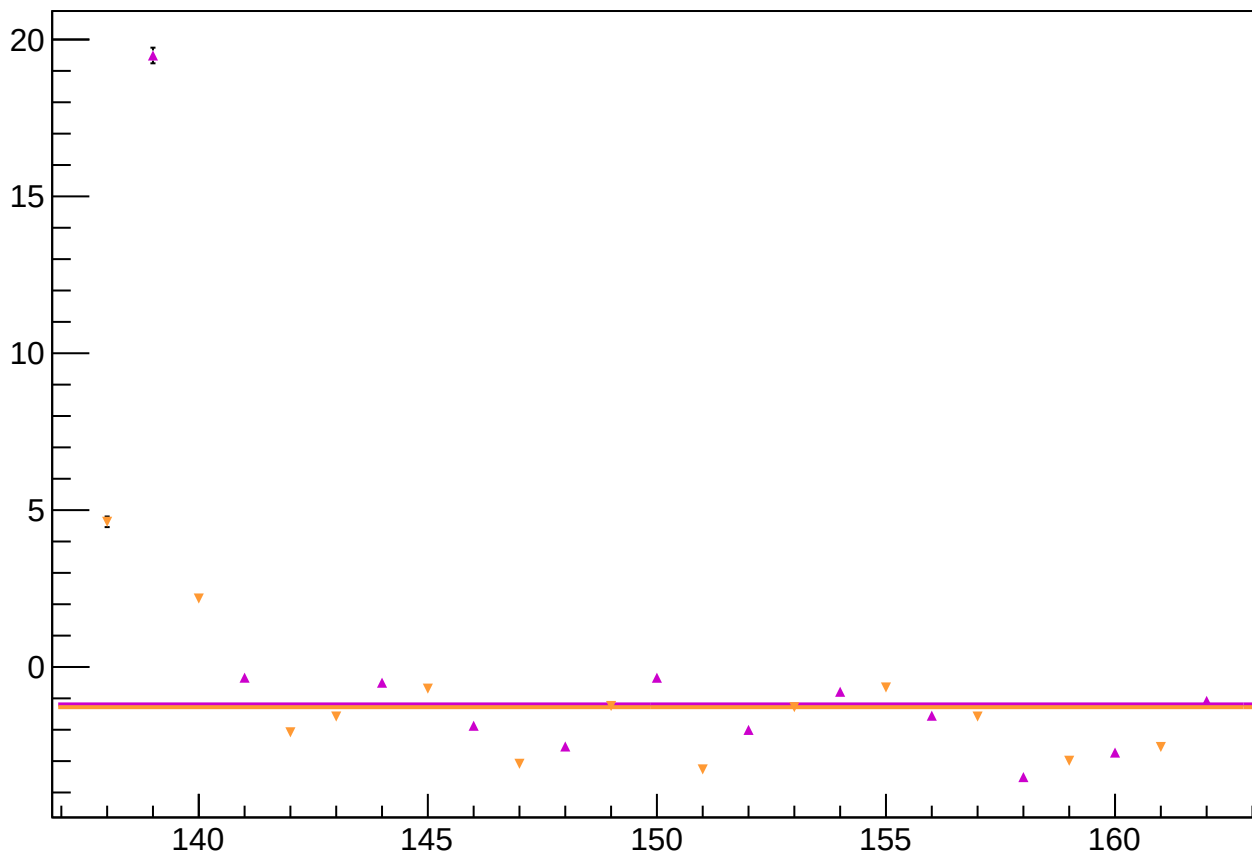
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.957 $\pm$ 0.043  $\chi^2$ /NDF:3550.3/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.439 $\pm$ 0.042  $\chi^2$ /NDF:4013.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.204 $\pm$ 0.030  $\chi^2$ /NDF: 7627.2/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

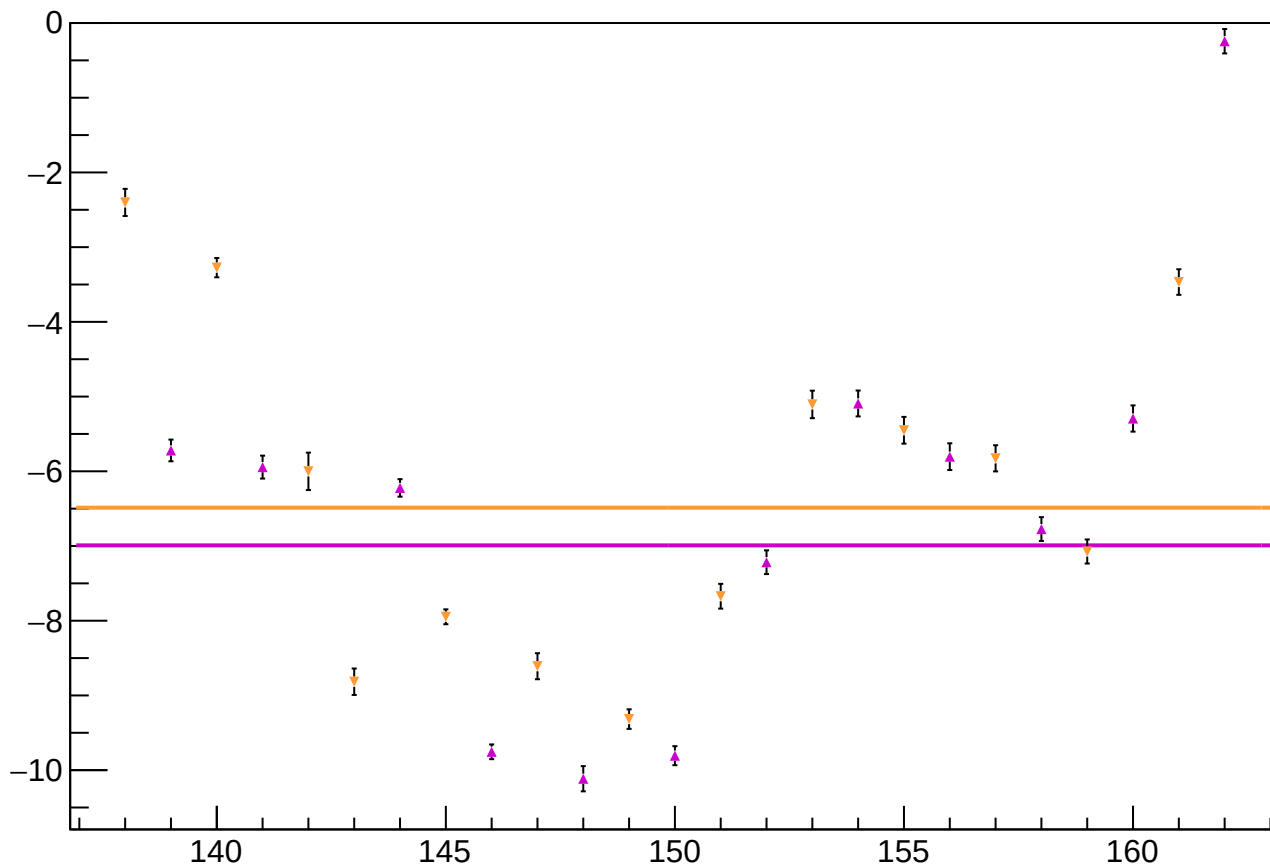
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.281+/-0.031  $\chi^2/\text{NDF}$ : 3626.0/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.193+/-0.030  $\chi^2/\text{NDF}$ : 8044.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -1.236+/-0.021  $\chi^2/\text{NDF}$ : 11675.1/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -6.487+/-0.043  $\chi^2/\text{NDF}$ : 2612.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

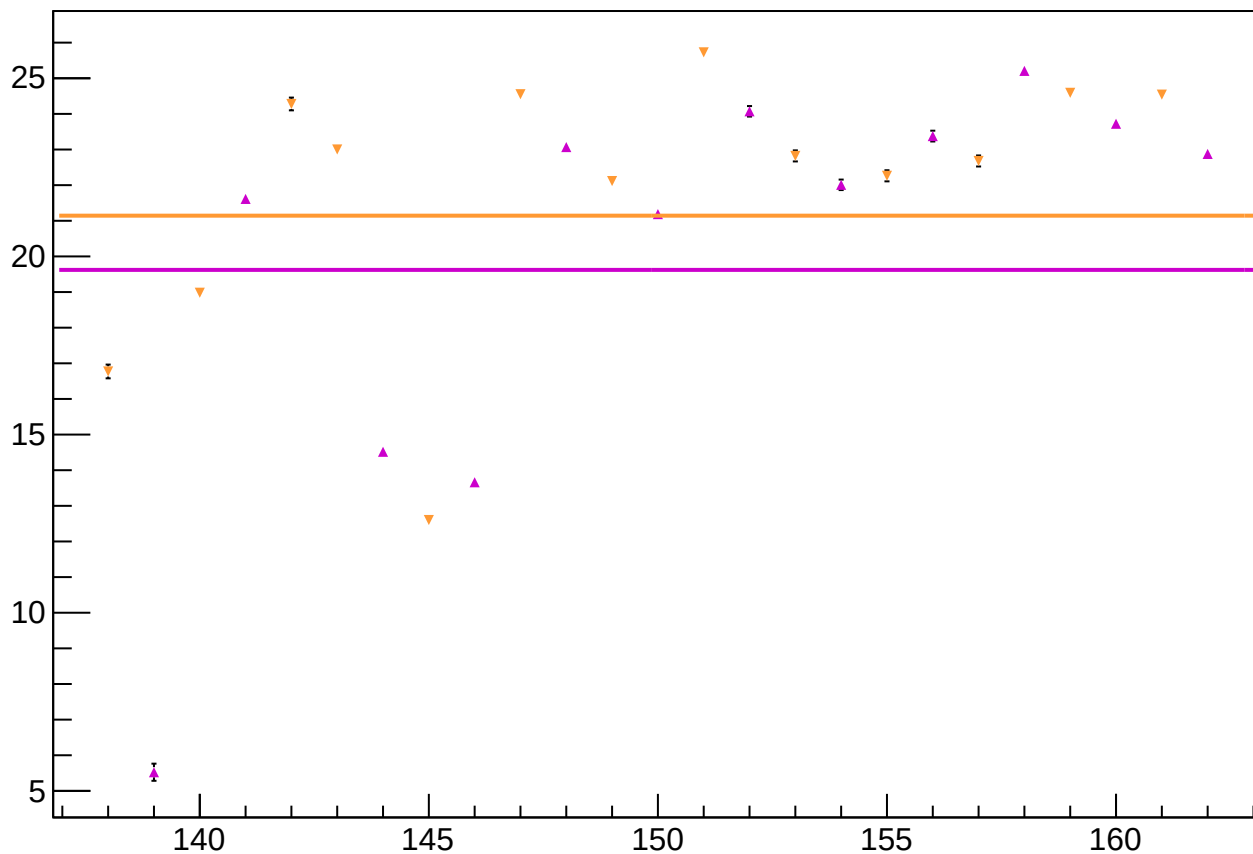
Left In: -6.991+/-0.042  $\chi^2/\text{NDF}$ : 3755.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.749+/-0.030  $\chi^2/\text{NDF}$ : 6438.8/24

- 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: 21.144+/-0.036  $\chi^2/\text{NDF}$ :14424.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

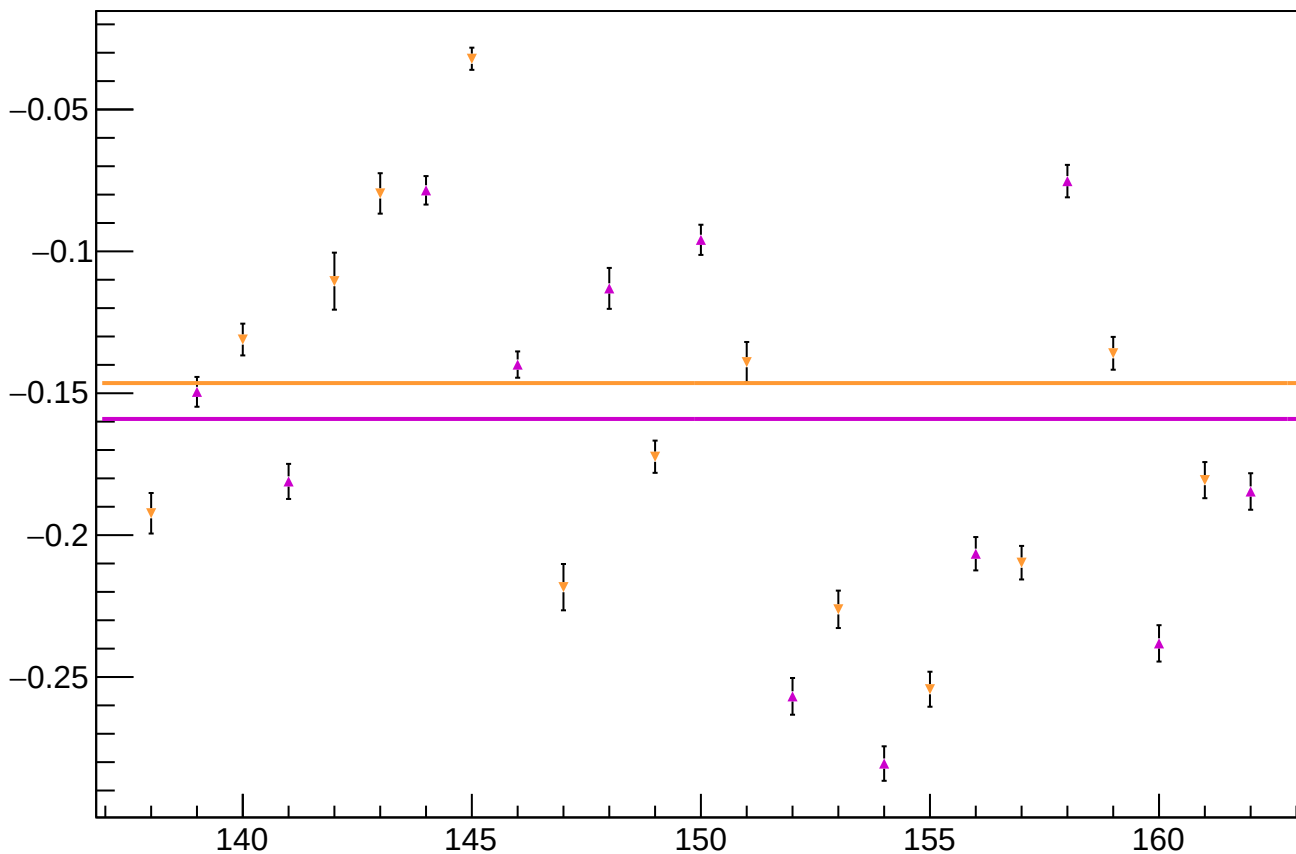
Left In: 19.622+/-0.035  $\chi^2/\text{NDF}$ :18181.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.362+/-0.025  $\chi^2/\text{NDF}$ : 33511.3/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

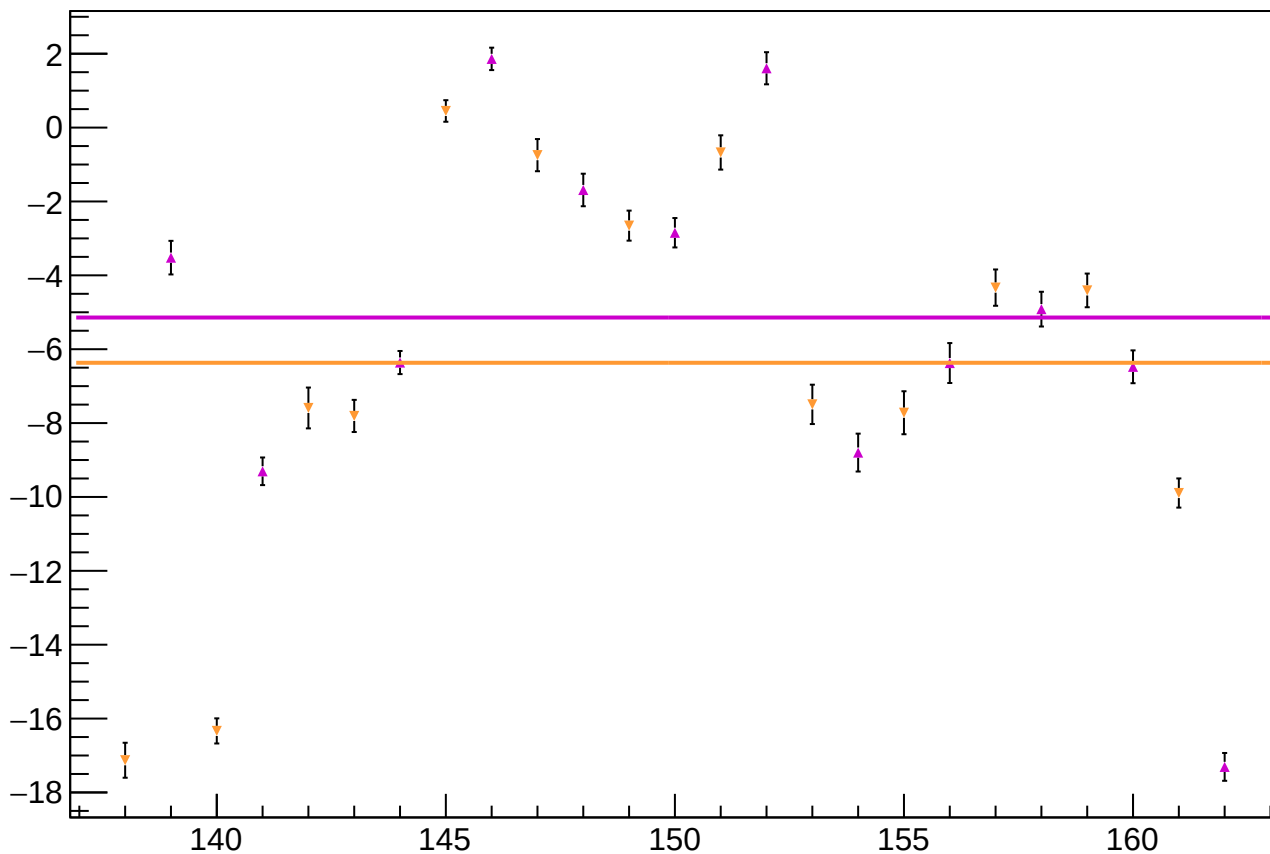
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.146 $\pm$ 0.002  $\chi^2$ /NDF:1703.4/12  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.159 $\pm$ 0.002  $\chi^2$ /NDF:1547.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.153 $\pm$ 0.001  $\chi^2$ /NDF: 3279.2/24  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug

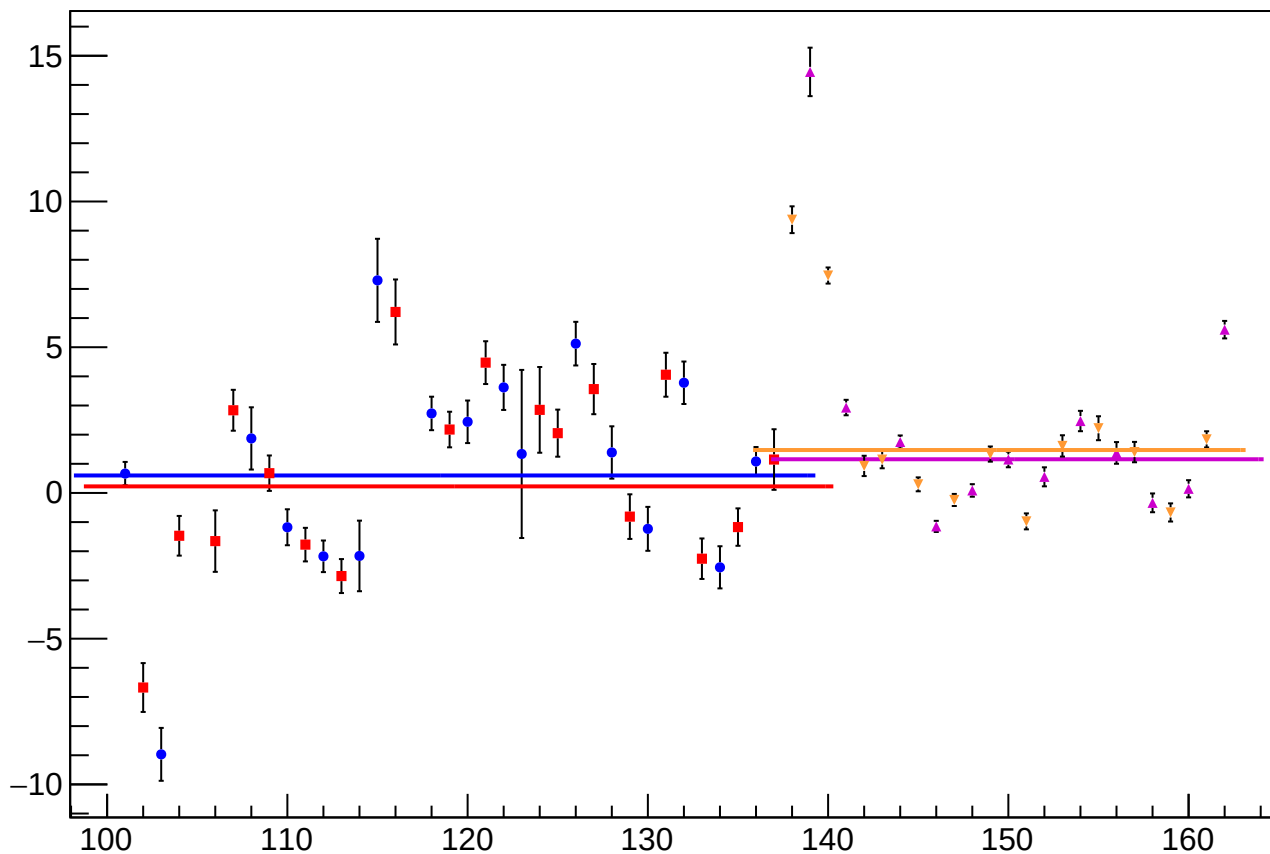


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.367+/-0.119  $\chi^2/\text{NDF}$ : 2462.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.142+/-0.117  $\chi^2/\text{NDF}$ : 2129.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.744+/-0.083  $\chi^2/\text{NDF}$ : 4645.7/24  
 - 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:  $1.473 \pm 0.081$   $\chi^2/\text{NDF}: 994.7/12$

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}: 273.2/17$

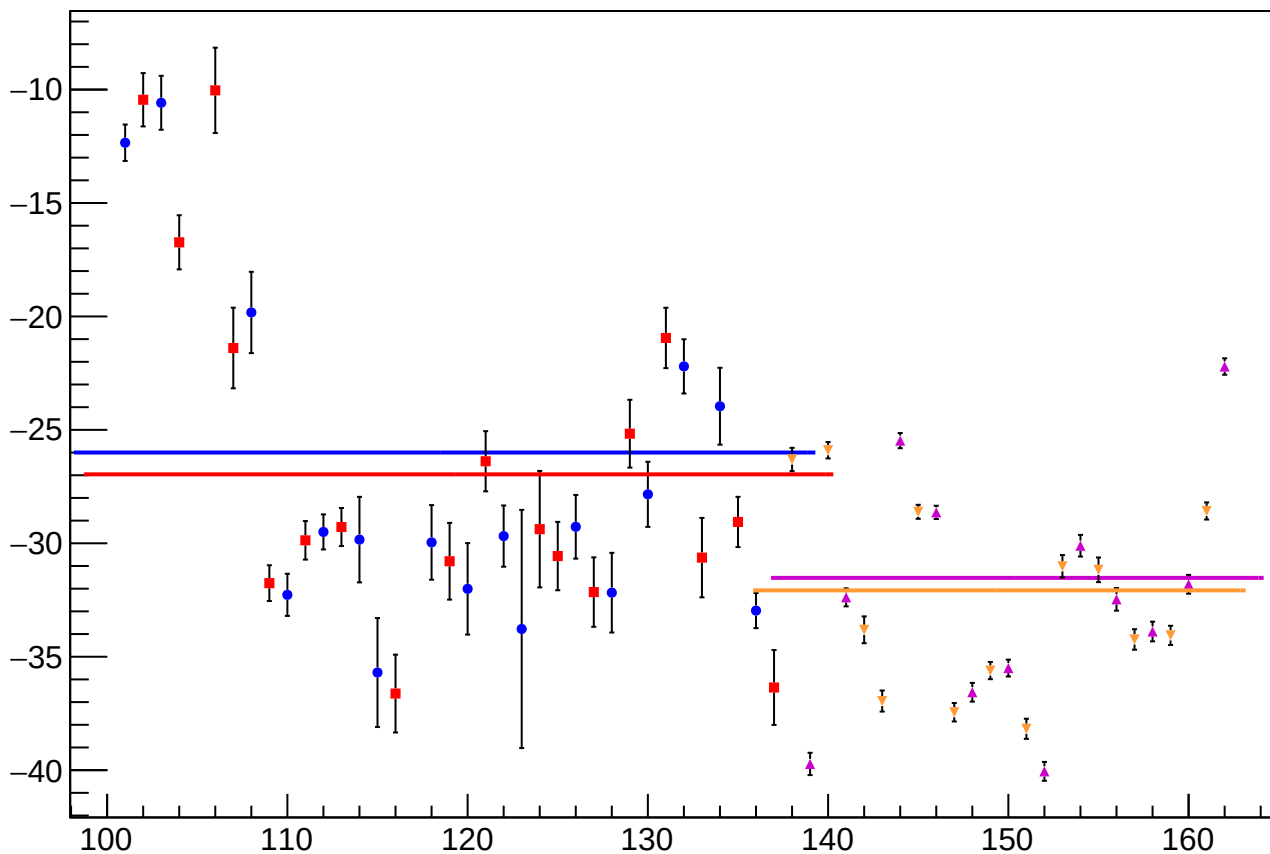
Left In:  $1.156 \pm 0.080$   $\chi^2/\text{NDF}: 748.2/11$

+ sign  $1.309 \pm 0.073$   $\chi^2/\text{NDF}: 1308.3/29$

All:  $1.151 \pm 0.052$   $\chi^2/\text{NDF}: 2362.3/59$

- sign  $0.994 \pm 0.073$   $\chi^2/\text{NDF}: 1044.8/29$

# 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:  $-32.075 \pm 0.118$   $\chi^2/\text{NDF}$ : 1250.1/12

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

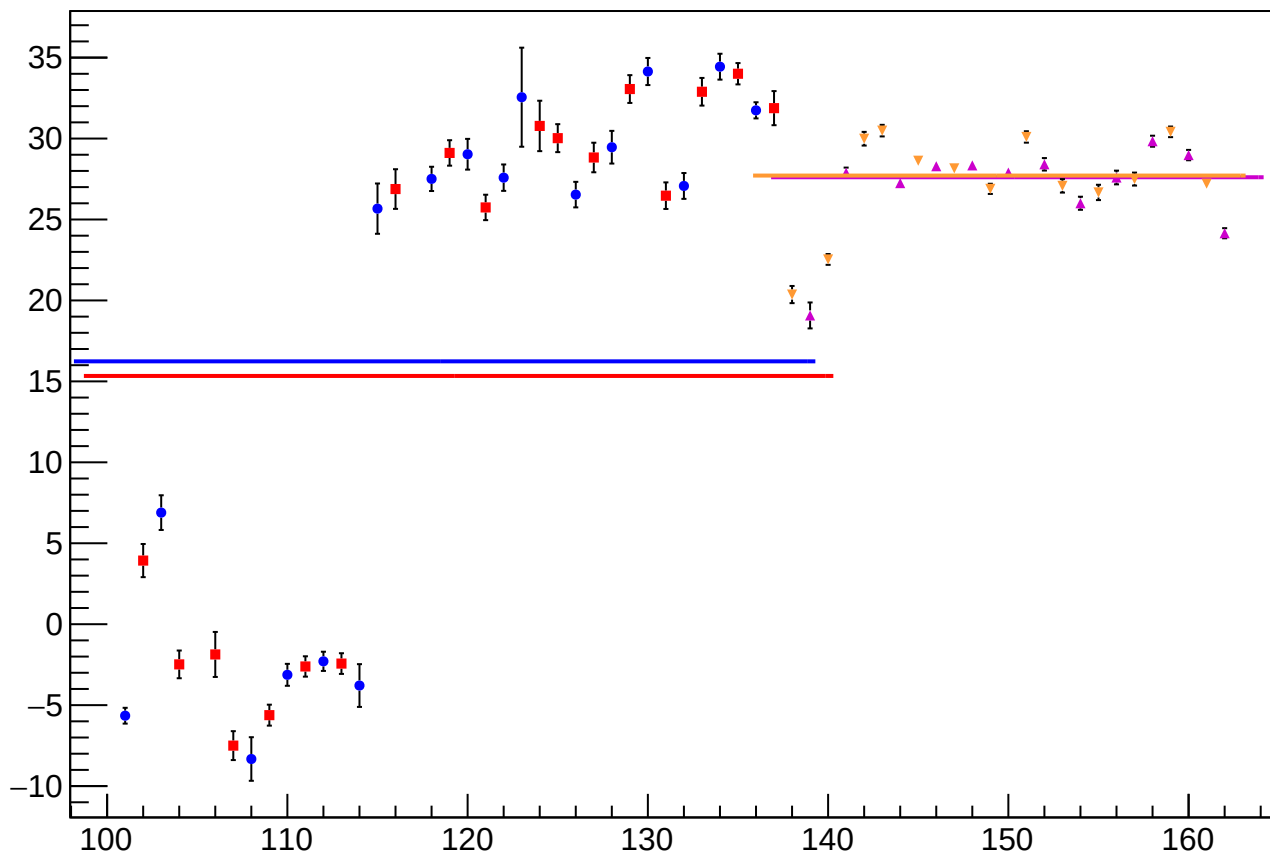
Left In:  $-31.524 \pm 0.114$   $\chi^2/\text{NDF}$ : 2092.2/11

+ sign  $-31.267 \pm 0.109$   $\chi^2/\text{NDF}$ : 2298.1/29

All:  $-31.101 \pm 0.076$   $\chi^2/\text{NDF}$ : 5134.6/59

- sign  $-30.944 \pm 0.106$   $\chi^2/\text{NDF}$ : 2831.9/29

# 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: 27.714 $\pm$ 0.097  $\chi^2$ /NDF:666.0/12

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

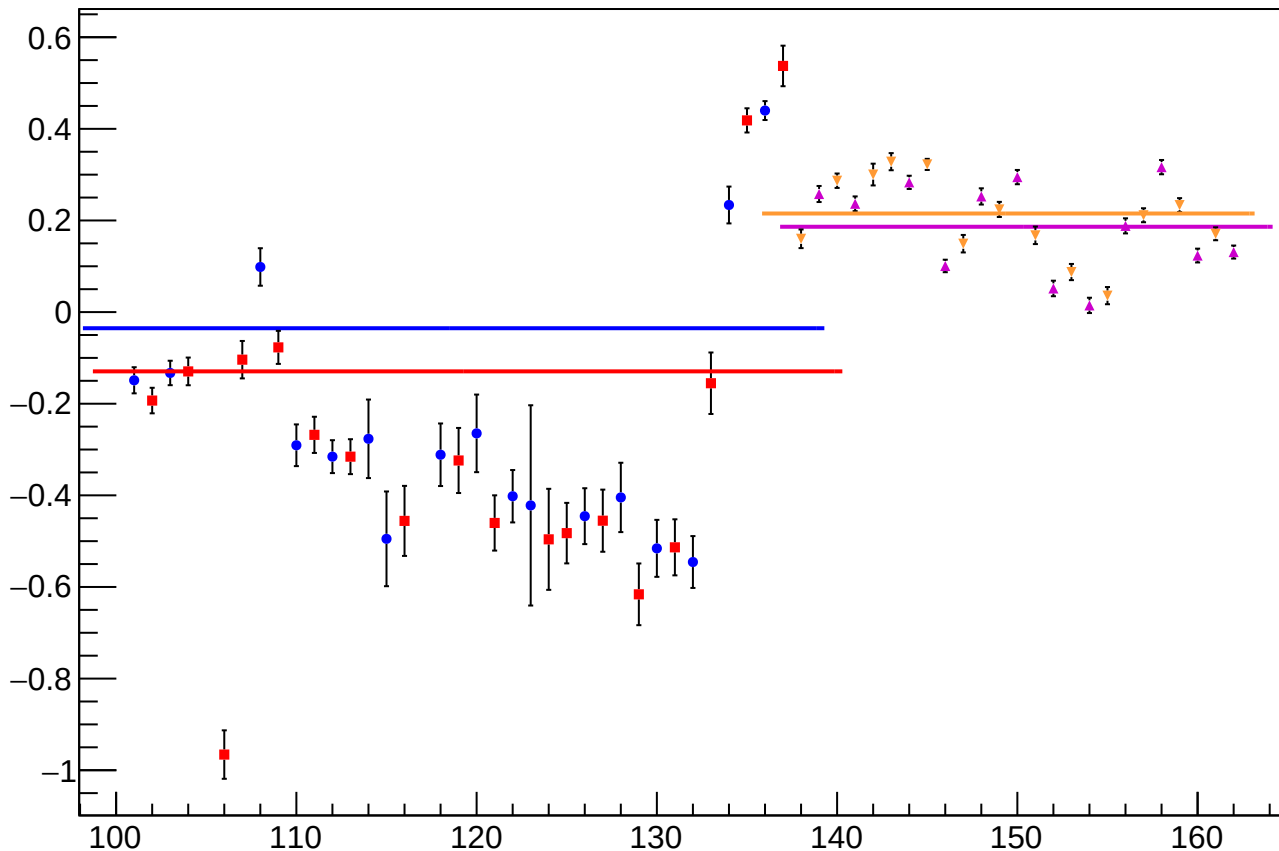
Left In: 27.609 $\pm$ 0.095  $\chi^2$ /NDF:334.5/11

+ sign 25.377 $\pm$ 0.086  $\chi^2$ /NDF: 11109.6/29

All: 25.343 $\pm$ 0.061  $\chi^2$ /NDF: 21853.7/59

- sign 25.309 $\pm$ 0.085  $\chi^2$ /NDF: 10743.8/29

# 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:  $0.215 \pm 0.005$   $\chi^2/\text{NDF}$ : 328.7/12

Right Out:  $-0.129 \pm 0.010$   $\chi^2/\text{NDF}$ : 1161.5/17

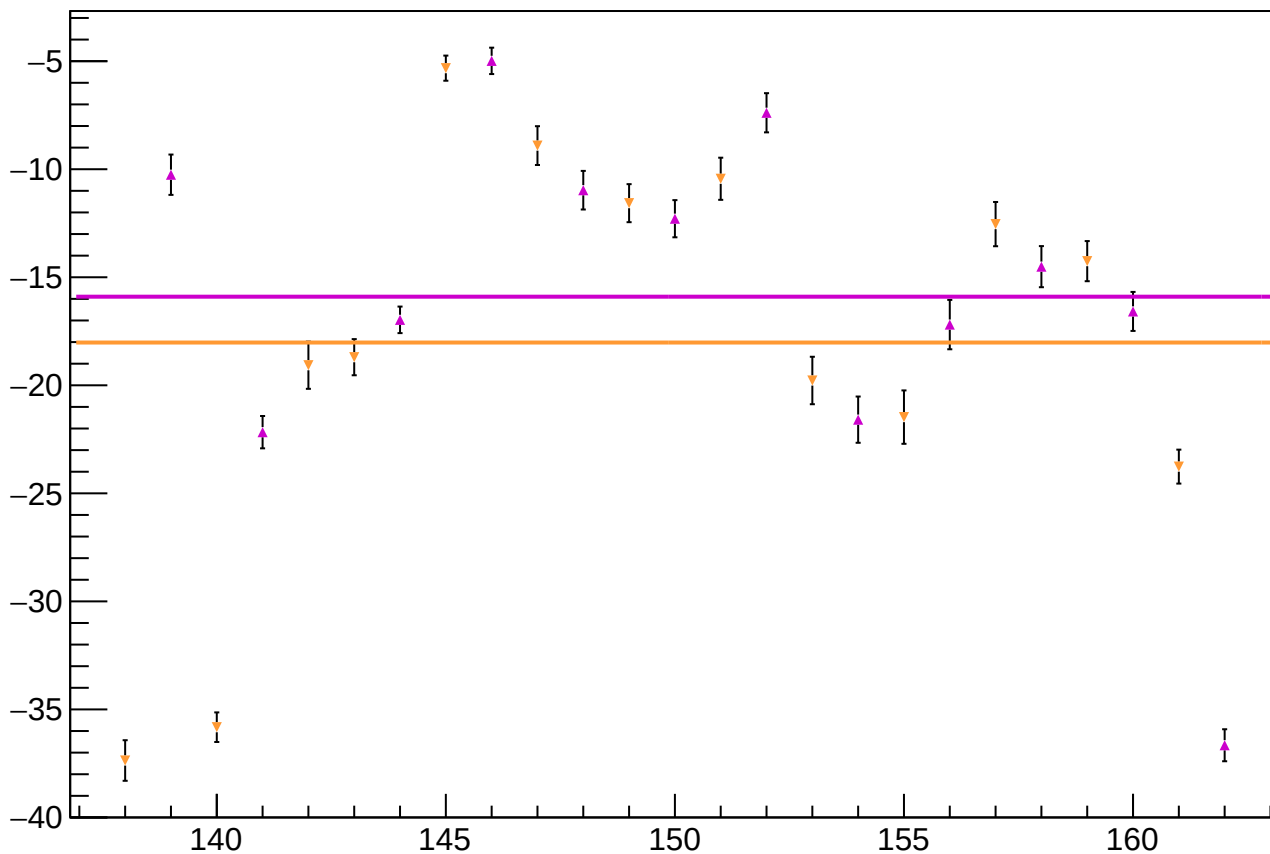
Left In:  $0.186 \pm 0.005$   $\chi^2/\text{NDF}$ : 443.3/11

+ sign  $0.173 \pm 0.004$   $\chi^2/\text{NDF}$ : 1832.4/29

All:  $0.154 \pm 0.003$   $\chi^2/\text{NDF}$ : 4253.0/59

- sign  $0.136 \pm 0.004$   $\chi^2/\text{NDF}$ : 2380.5/29

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.021+/-0.240  $\chi^2/\text{NDF}$ :1904.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

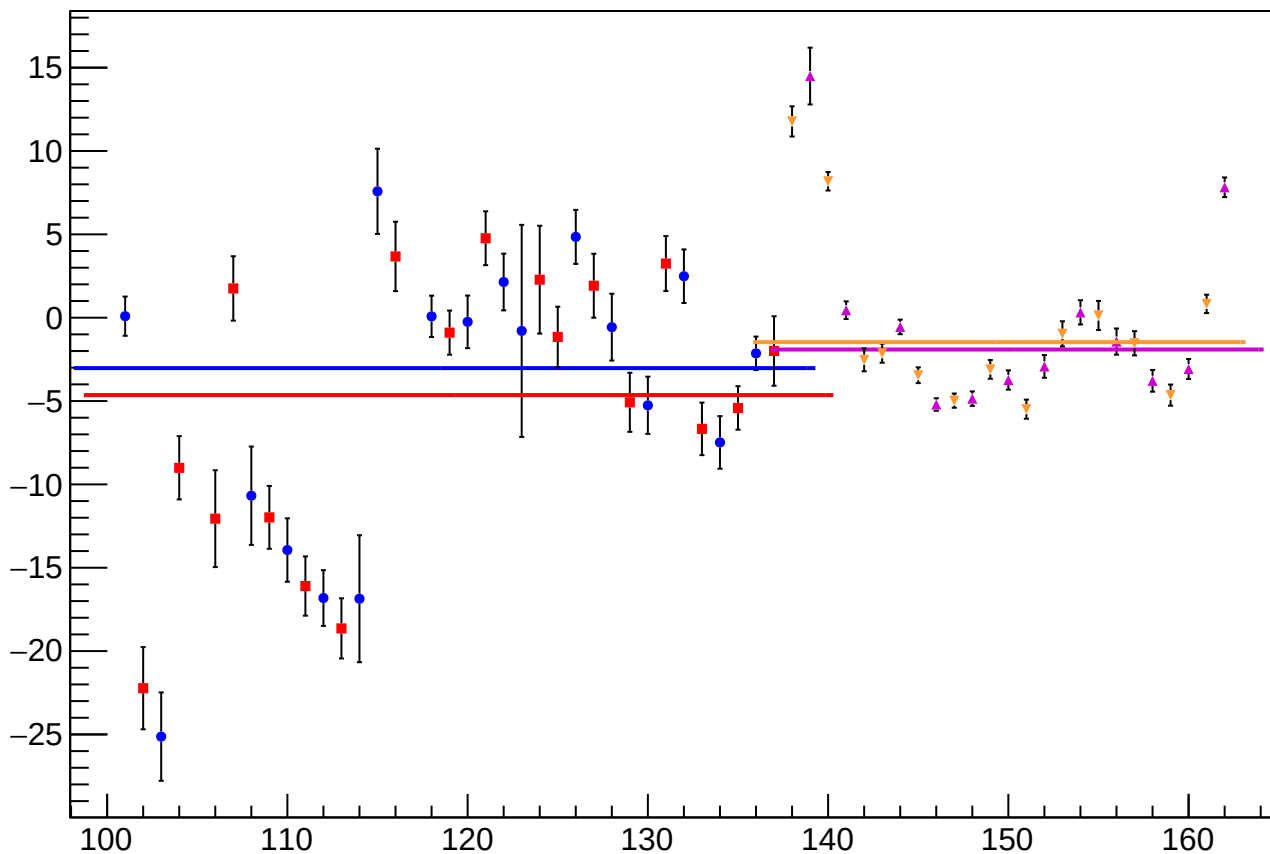
Left In: -15.899+/-0.236  $\chi^2/\text{NDF}$ :1383.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

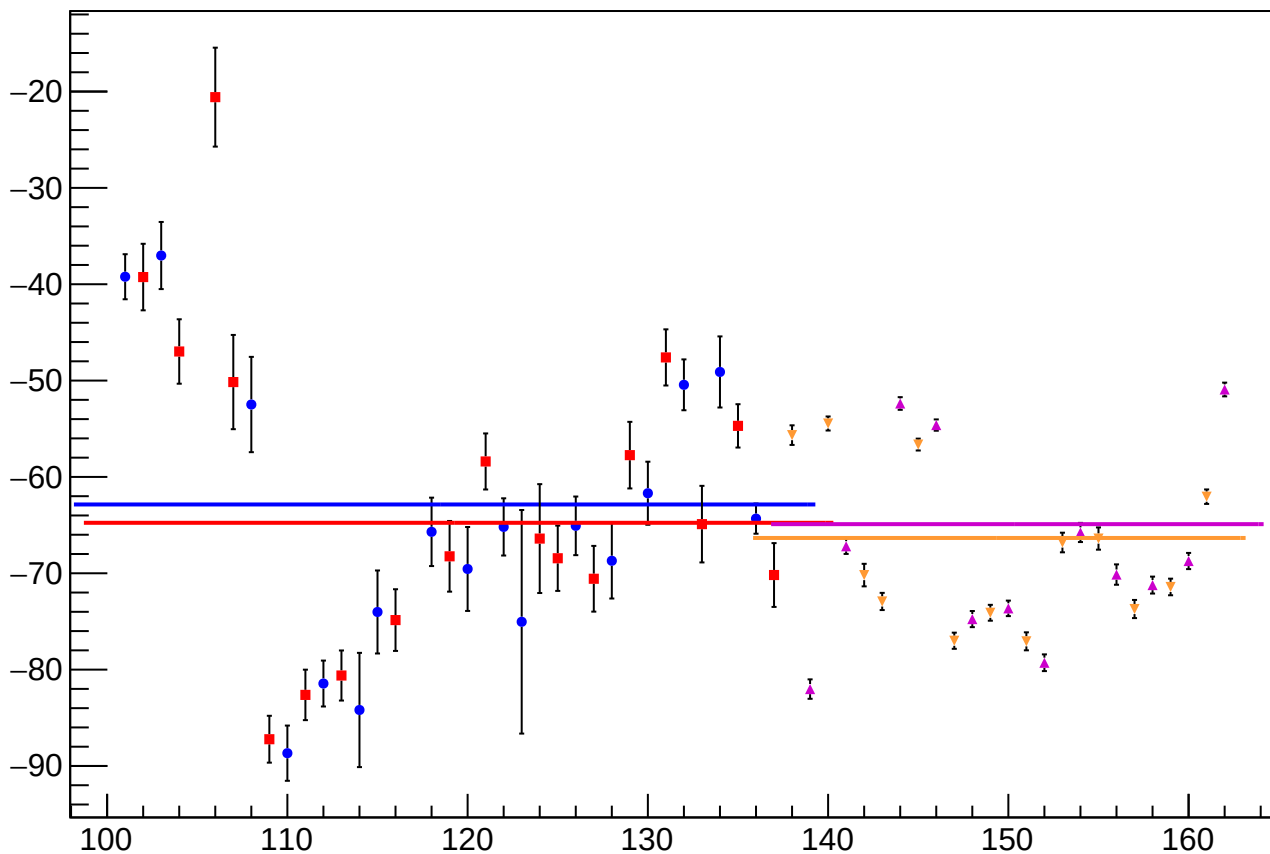
All: -16.942+/-0.169  $\chi^2/\text{NDF}$ : 3327.5/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



# 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:  $-66.335 \pm 0.239$   $\chi^2/\text{NDF}: 1199.5/12$

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}: 416.1/17$

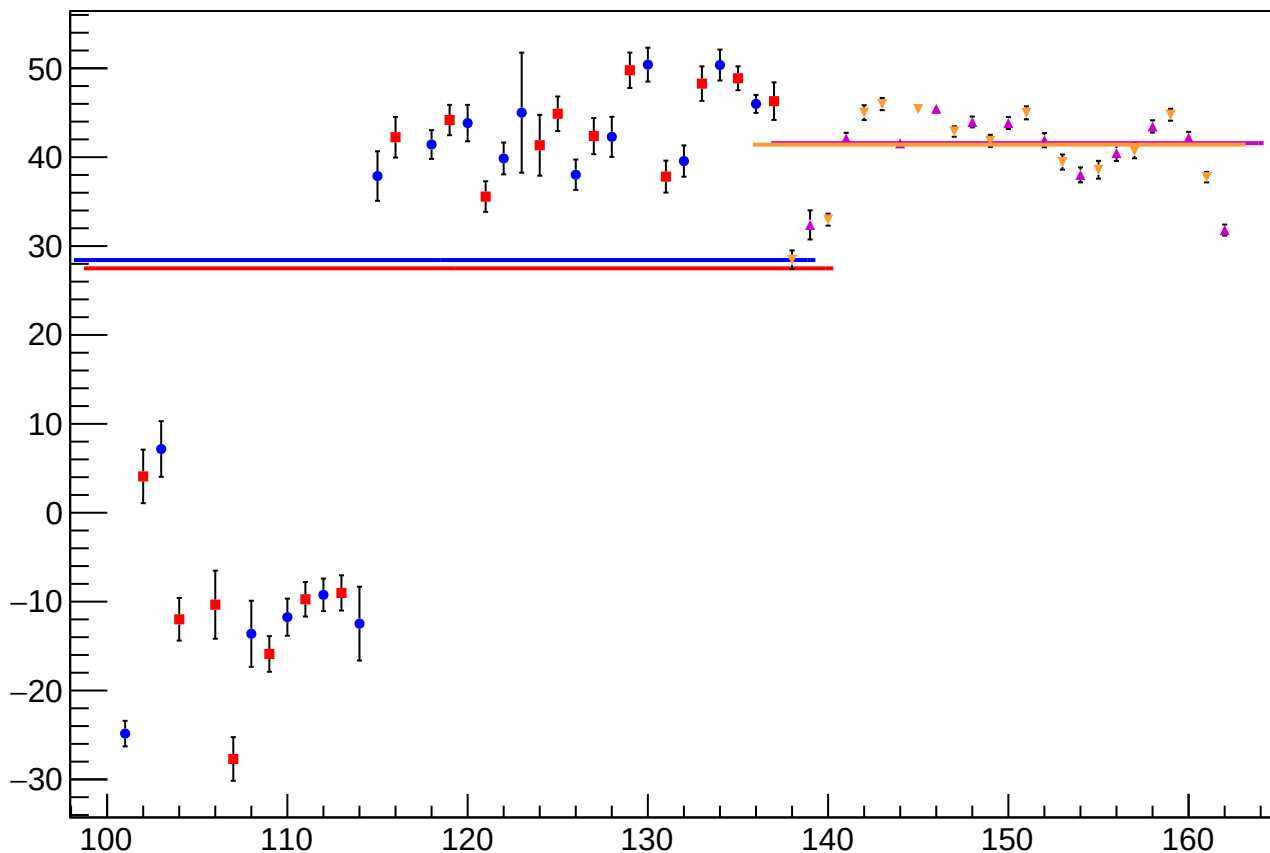
Left In:  $-64.901 \pm 0.231$   $\chi^2/\text{NDF}: 1979.4/11$

+ sign  $-66.005 \pm 0.228$   $\chi^2/\text{NDF}: 1587.2/29$

All:  $-65.431 \pm 0.159$   $\chi^2/\text{NDF}: 3995.1/59$

- sign  $-64.889 \pm 0.221$   $\chi^2/\text{NDF}: 2395.5/29$

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $28.426 \pm 0.458$   $\chi^2/\text{NDF}$ : 3322.4/16

Left Out:  $41.410 \pm 0.197$   $\chi^2/\text{NDF}$ : 534.7/12

Right Out:  $27.493 \pm 0.479$   $\chi^2/\text{NDF}$ : 3027.8/17

Left In:  $41.578 \pm 0.192$   $\chi^2/\text{NDF}$ : 405.5/11

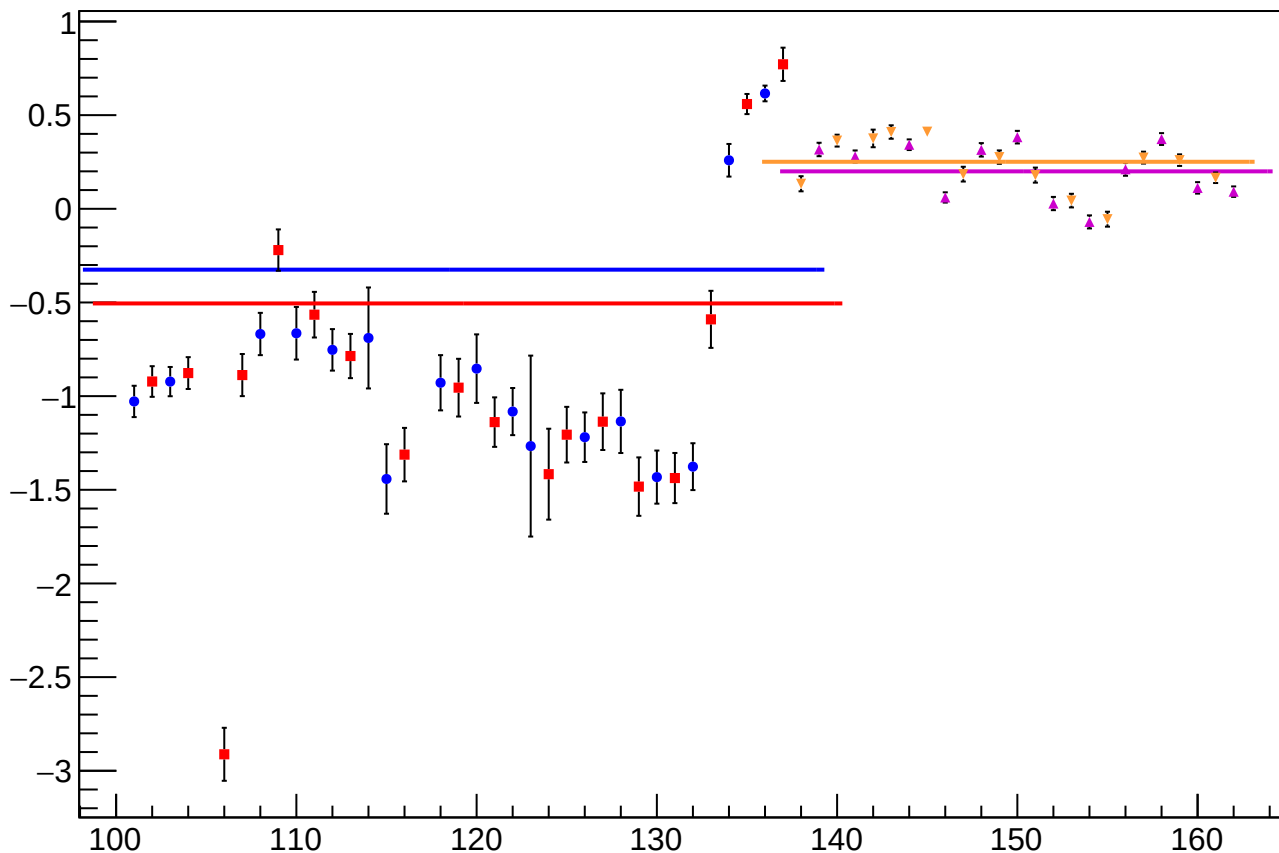
+ sign  $39.385 \pm 0.181$   $\chi^2/\text{NDF}$ : 4536.1/29

All:  $39.510 \pm 0.127$   $\chi^2/\text{NDF}$ : 8716.2/59

- sign  $39.630 \pm 0.178$   $\chi^2/\text{NDF}$ : 4179.1/29



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:  $0.251 \pm 0.009$   $\chi^2/\text{NDF}$ : 199.3/12

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

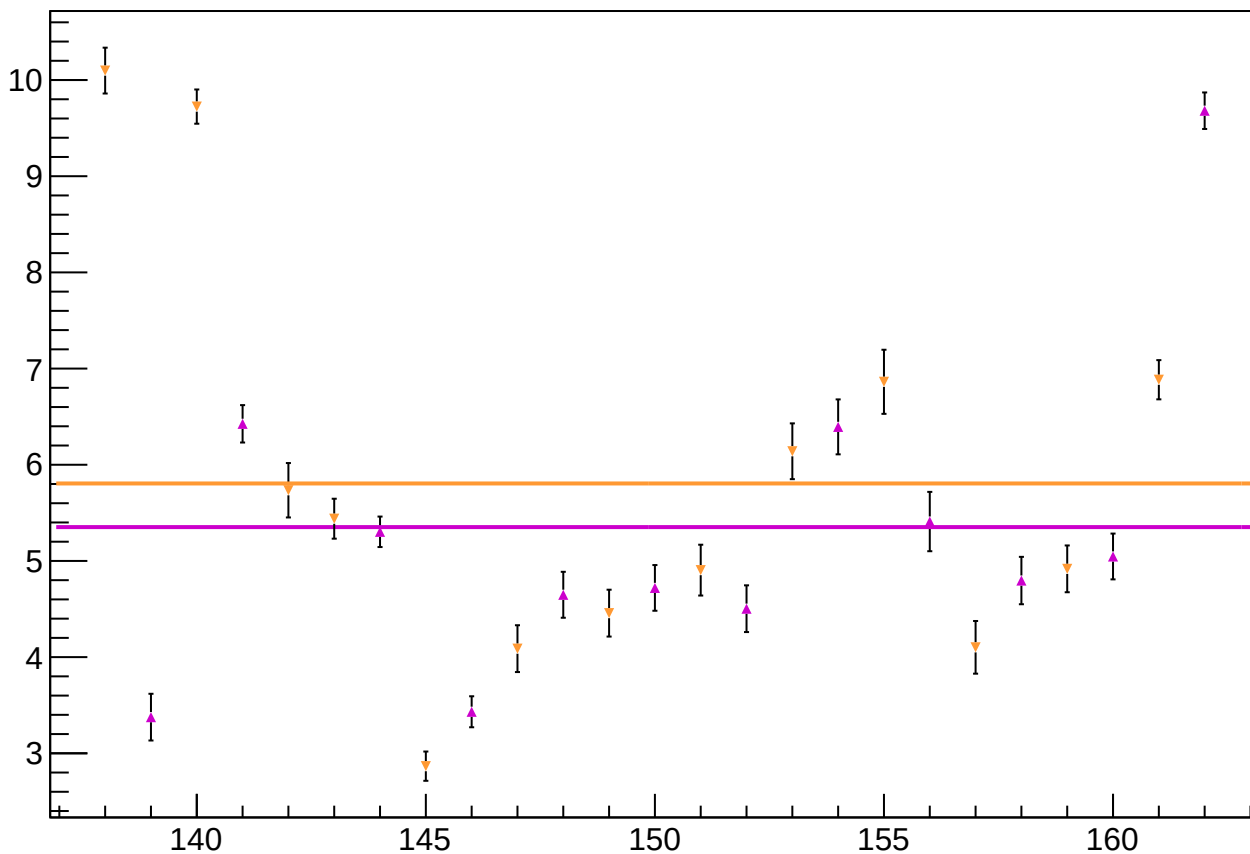
Left In:  $0.200 \pm 0.009$   $\chi^2/\text{NDF}$ : 243.8/11

+ sign  $0.179 \pm 0.009$   $\chi^2/\text{NDF}$ : 1678.4/29

All:  $0.149 \pm 0.006$   $\chi^2/\text{NDF}$ : 3772.0/59

- sign  $0.120 \pm 0.009$   $\chi^2/\text{NDF}$ : 2070.7/29

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5.805 $\pm$ 0.063  $\chi^2$ /NDF:1368.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

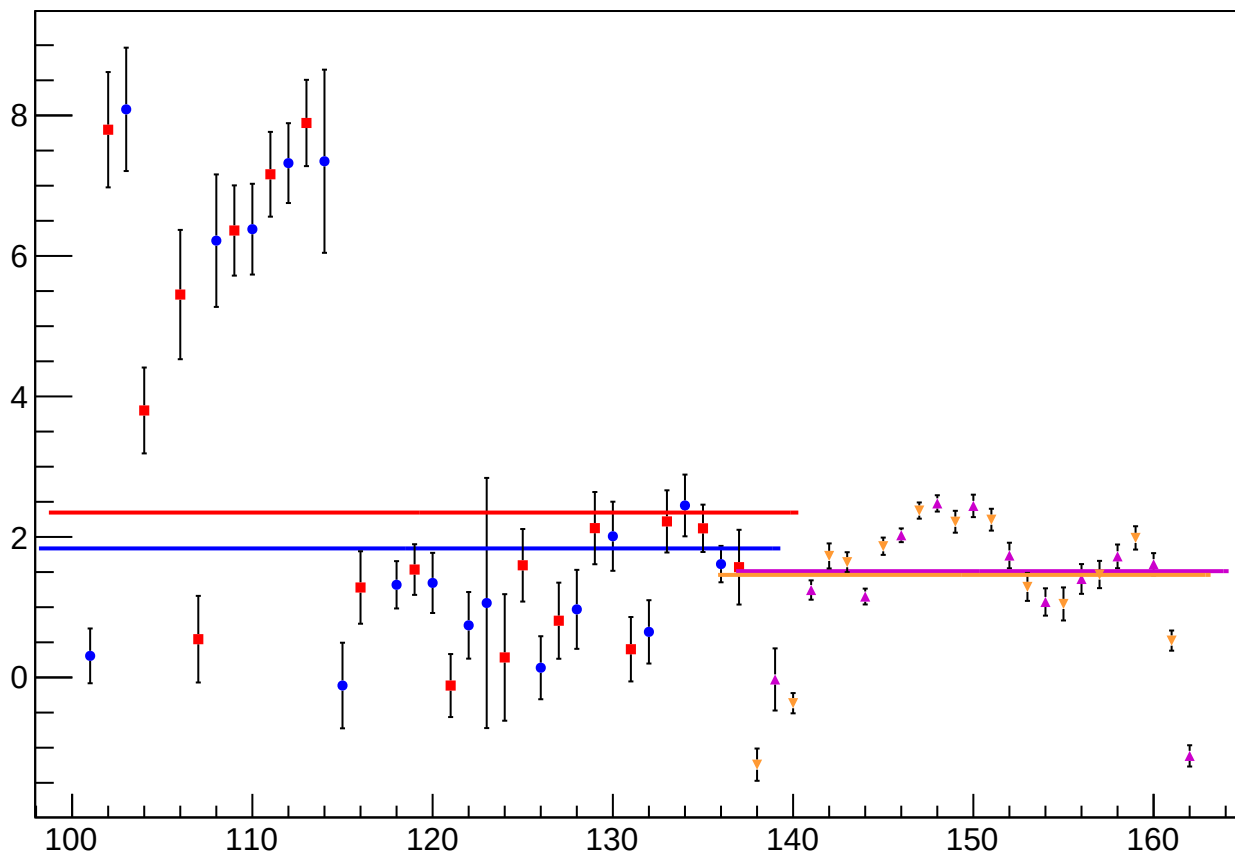
Left In: 5.352 $\pm$ 0.062  $\chi^2$ /NDF:806.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.575 $\pm$ 0.044  $\chi^2$ /NDF: 2201.6/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /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:  $1.460 \pm 0.044$   $\chi^2/\text{NDF}$ : 482.4/12

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

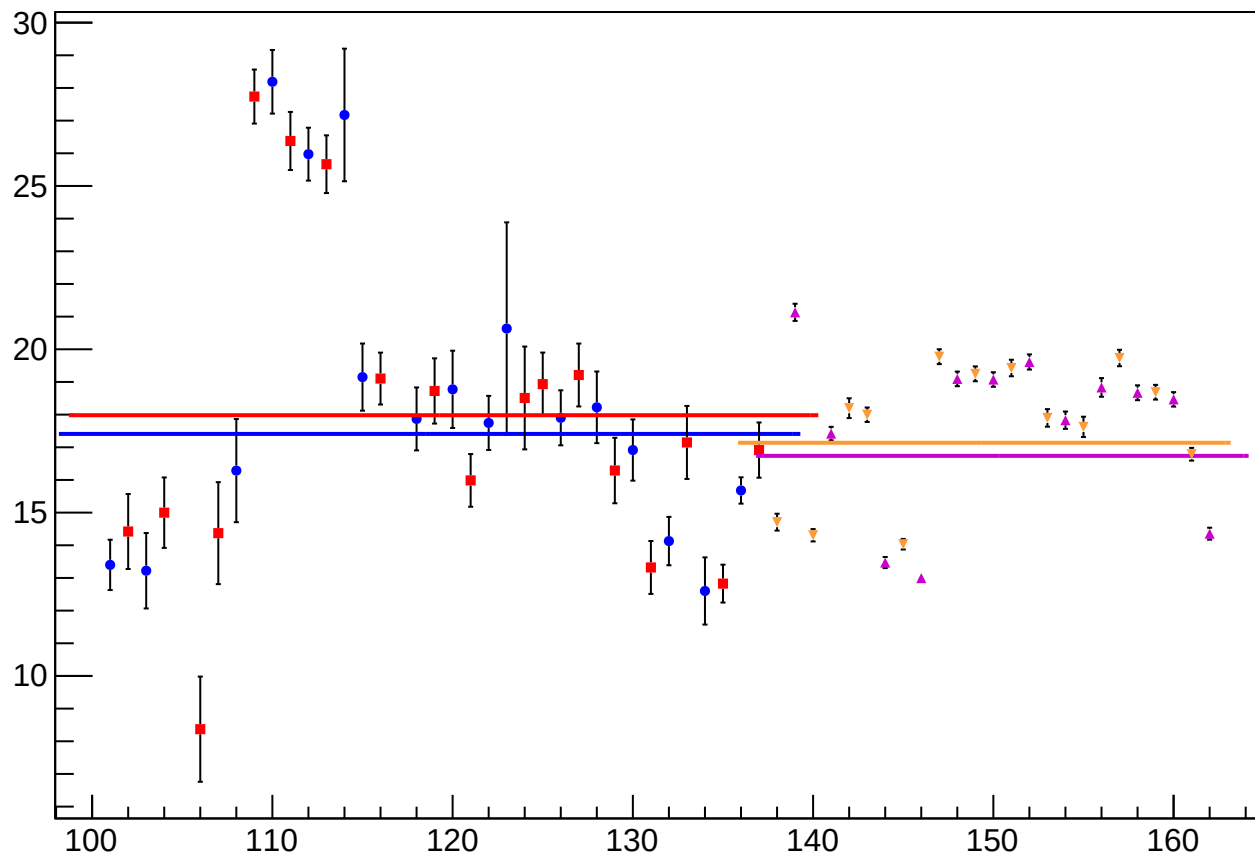
Left In:  $1.513 \pm 0.043$   $\chi^2/\text{NDF}$ : 466.8/11

+ sign  $1.506 \pm 0.041$   $\chi^2/\text{NDF}$ : 785.7/29

All:  $1.555 \pm 0.029$   $\chi^2/\text{NDF}$ : 1626.4/59

- sign  $1.603 \pm 0.040$   $\chi^2/\text{NDF}$ : 837.9/29

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.409 $\pm$ 0.212  $\chi^2$ /NDF: 365.1/16

Left Out: 17.138 $\pm$ 0.063  $\chi^2$ /NDF: 1176.9/12

Right Out: 17.982 $\pm$ 0.219  $\chi^2$ /NDF: 490.7/17

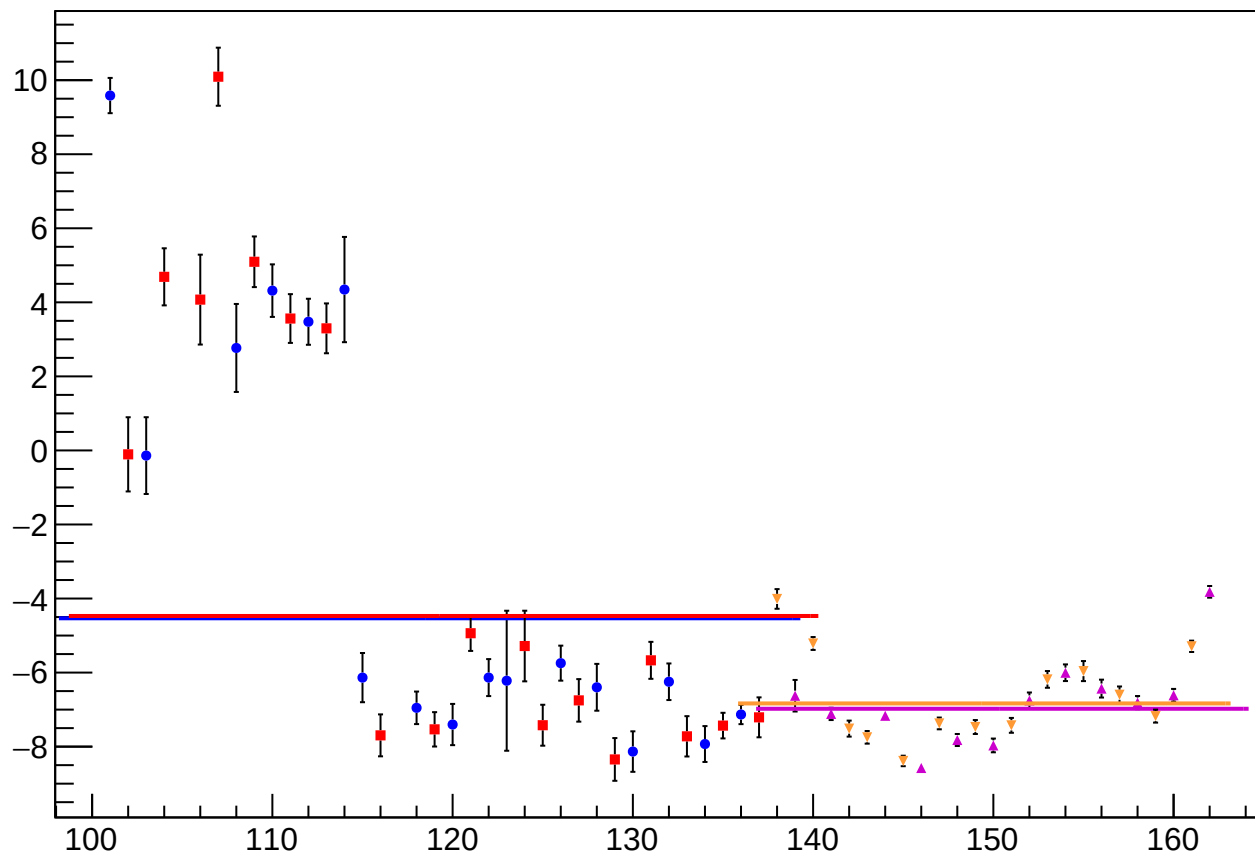
Left In: 16.737 $\pm$ 0.061  $\chi^2$ /NDF: 1994.8/11

+ sign 17.160 $\pm$ 0.060  $\chi^2$ /NDF: 1543.5/29

All: 16.989 $\pm$ 0.042  $\chi^2$ /NDF: 4074.5/59

- sign 16.827 $\pm$ 0.059  $\chi^2$ /NDF: 2515.4/29

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:  $-6.833 \pm 0.052$   $\chi^2/\text{NDF}$ : 513.9/12

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

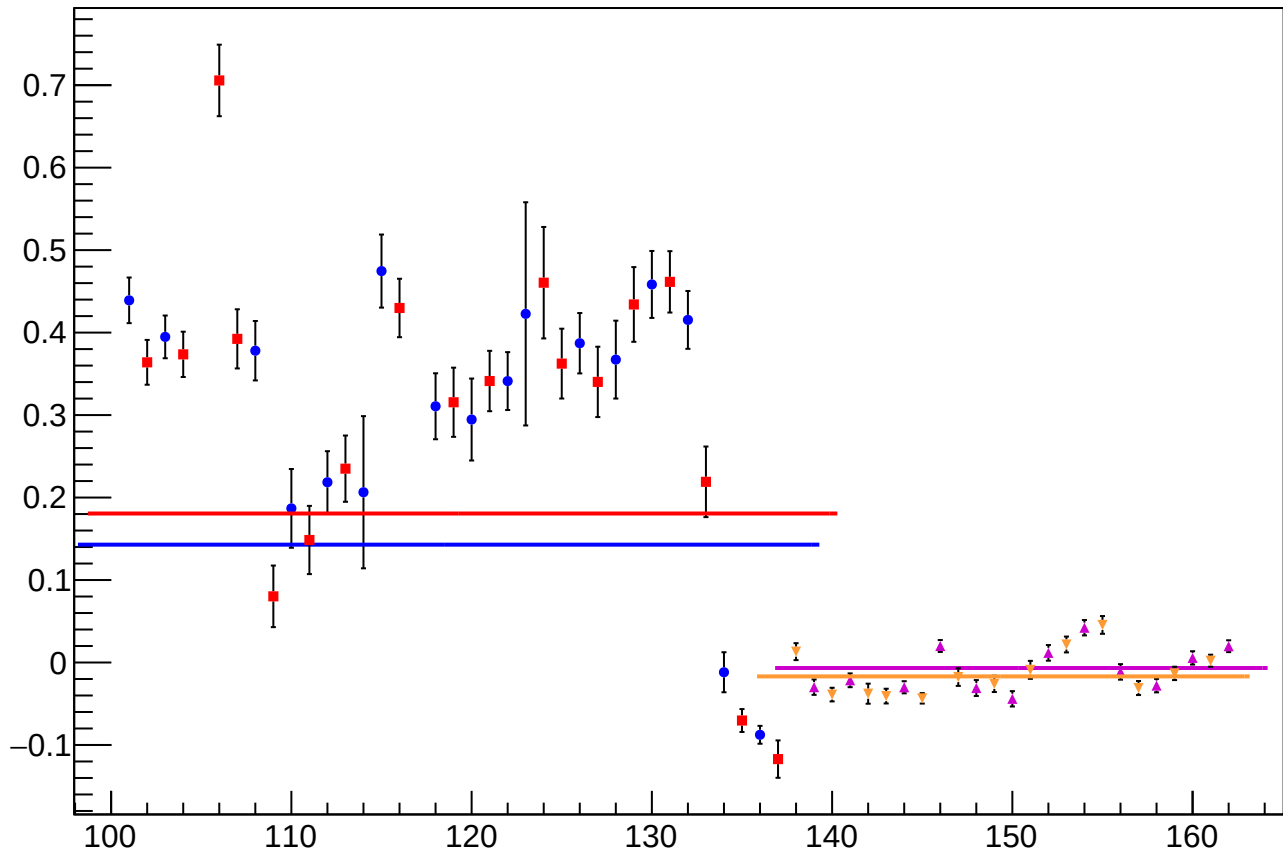
Left In:  $-6.977 \pm 0.050$   $\chi^2/\text{NDF}$ : 655.9/11

+ sign  $-6.517 \pm 0.048$   $\chi^2/\text{NDF}$ : 2373.7/29

All:  $-6.599 \pm 0.034$   $\chi^2/\text{NDF}$ : 4669.7/59

- sign  $-6.678 \pm 0.047$   $\chi^2/\text{NDF}$ : 2290.3/29

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:  $-0.017 \pm 0.002$   $\chi^2/\text{NDF}$ : 104.3/12

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}$ : 1003.7/17

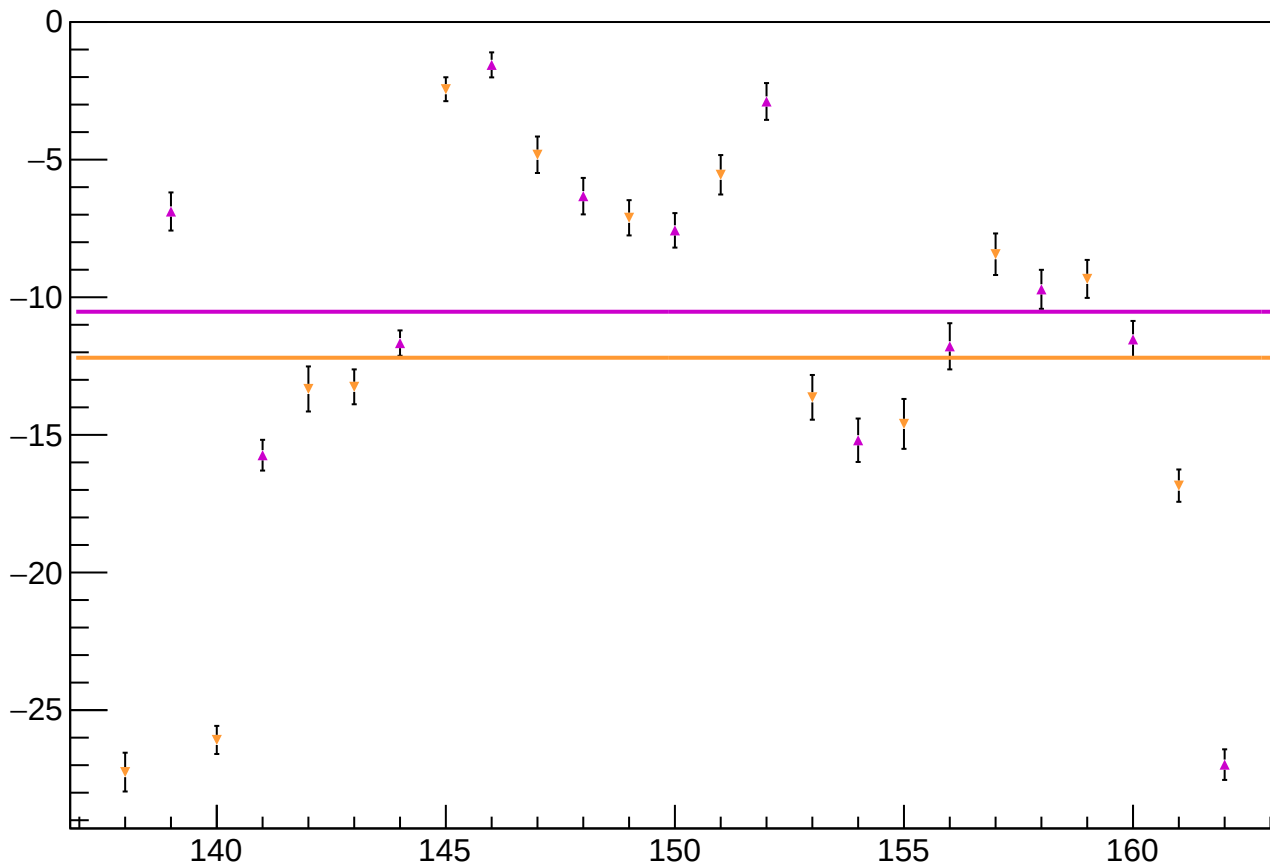
Left In:  $-0.007 \pm 0.002$   $\chi^2/\text{NDF}$ : 109.8/11

+ sign  $0.001 \pm 0.002$   $\chi^2/\text{NDF}$ : 1619.4/29

All:  $0.006 \pm 0.002$   $\chi^2/\text{NDF}$ : 3321.9/59

- sign  $0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 1691.5/29

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: -12.197+/-0.179  $\chi^2/\text{NDF}$ : 2093.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

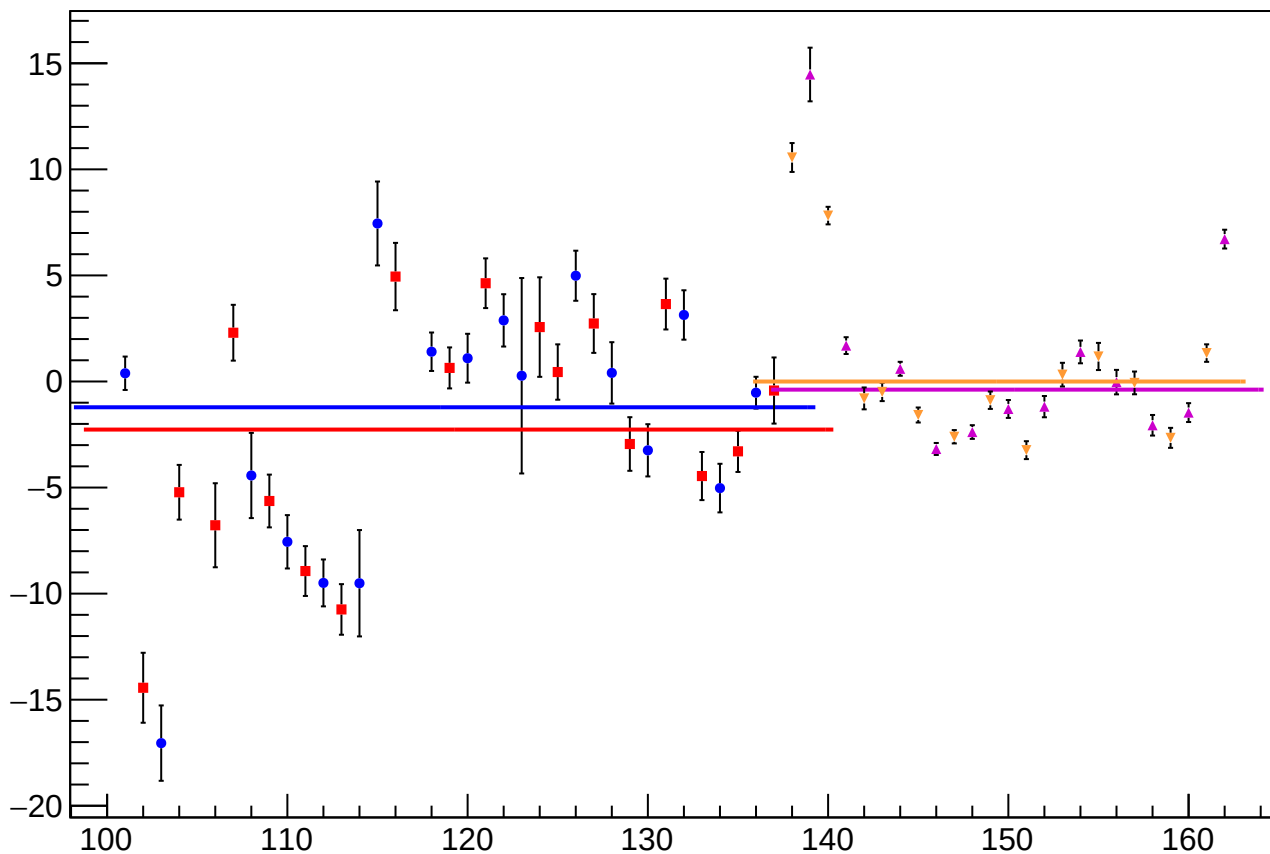
Left In: -10.526+/-0.176  $\chi^2/\text{NDF}$ : 1620.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.347+/-0.125  $\chi^2/\text{NDF}$ : 3758.1/24

- 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:  $-0.002 \pm 0.123$   $\chi^2/\text{NDF}$ : 798.7/12

Right Out:  $-2.267 \pm 0.302$   $\chi^2/\text{NDF}$ : 283.9/17

Left In:  $-0.384 \pm 0.121$   $\chi^2/\text{NDF}$ : 603.5/11

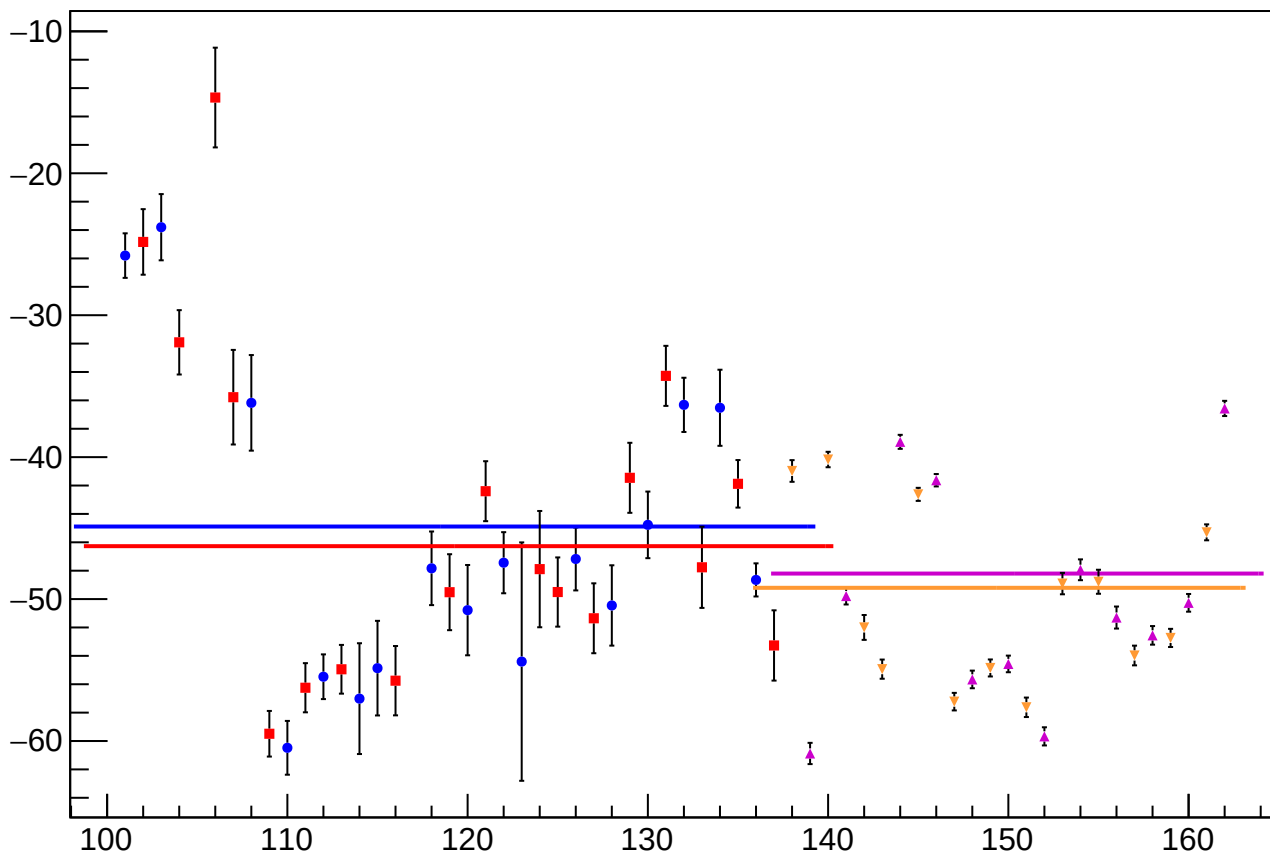
+ sign  $-0.186 \pm 0.113$   $\chi^2/\text{NDF}$ : 1092.3/29

All:  $-0.416 \pm 0.080$   $\chi^2/\text{NDF}$ : 2021.3/59

- sign  $-0.642 \pm 0.112$   $\chi^2/\text{NDF}$ : 920.8/29



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: -49.206 $\pm$ 0.178  $\chi^2/\text{NDF}$ : 1213.1/12

Right Out: -46.272 $\pm$ 0.530  $\chi^2/\text{NDF}$ : 420.5/17

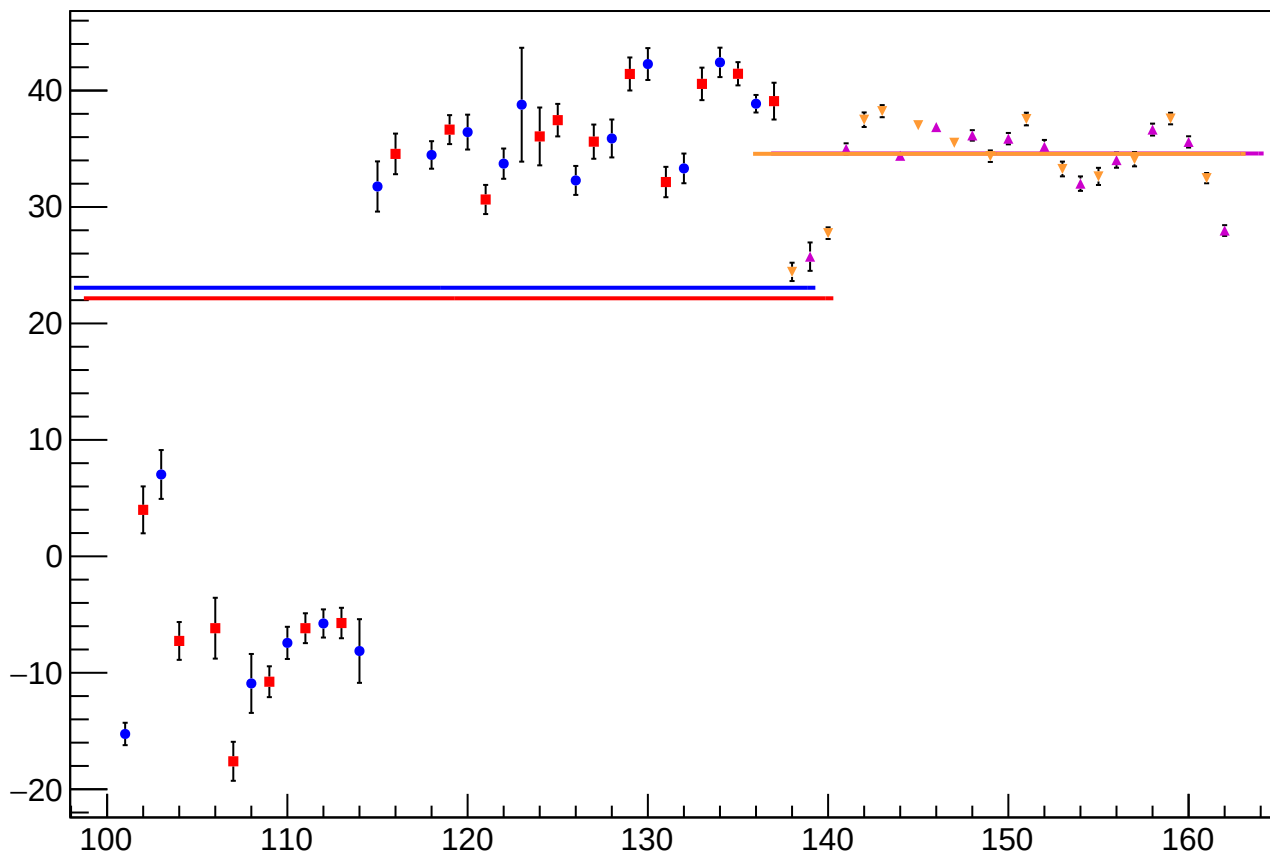
Left In: -48.202 $\pm$ 0.172  $\chi^2/\text{NDF}$ : 2001.0/11

+ sign -48.760 $\pm$ 0.168  $\chi^2/\text{NDF}$ : 1694.6/29

All: -48.379 $\pm$ 0.117  $\chi^2/\text{NDF}$ : 4138.2/59

- sign -48.018 $\pm$ 0.164  $\chi^2/\text{NDF}$ : 2433.5/29

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: 34.567 $\pm$ 0.146  $\chi^2$ /NDF:565.0/12

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

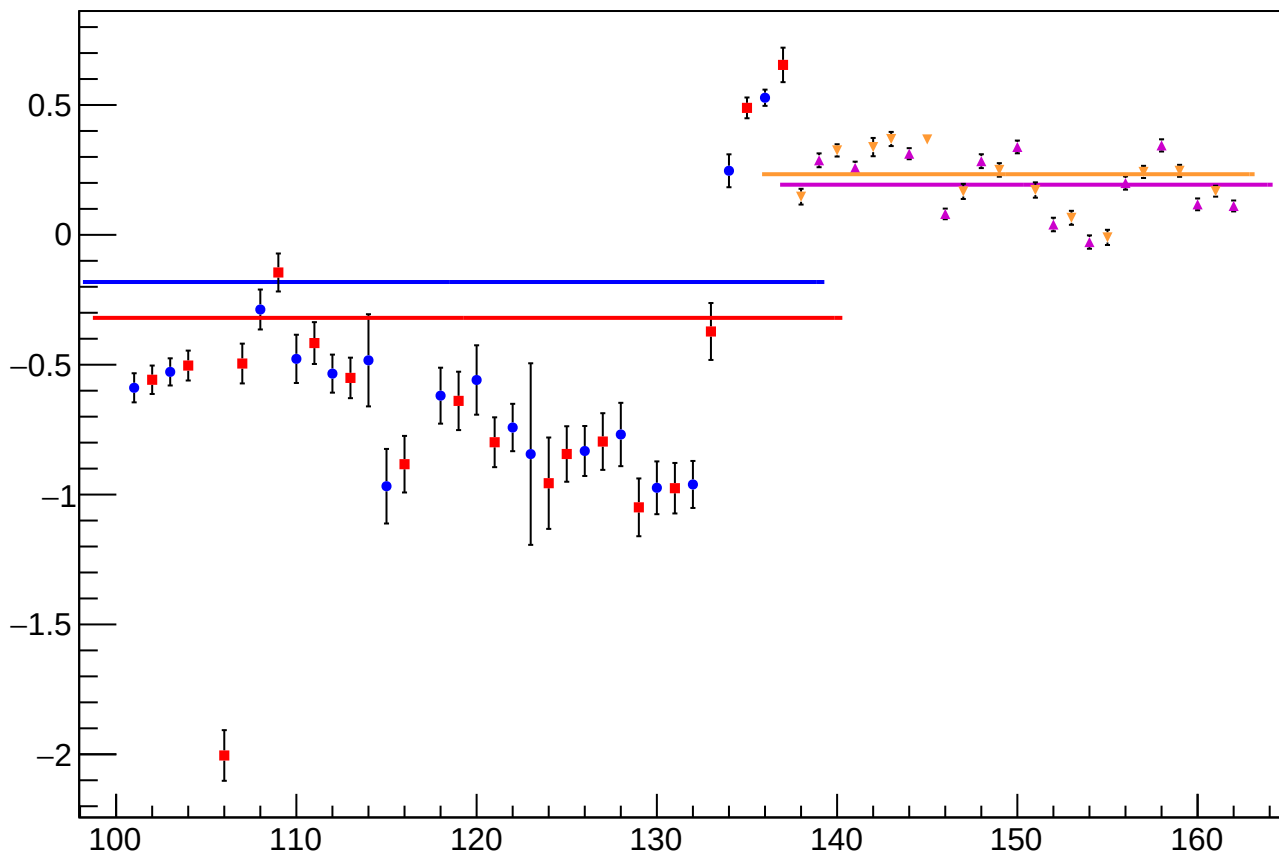
Left In: 34.595 $\pm$ 0.143  $\chi^2$ /NDF:357.8/11

+ sign 32.647 $\pm$ 0.133  $\chi^2$ /NDF: 5931.9/29

All: 32.692 $\pm$ 0.094  $\chi^2$ /NDF: 11453.0/59

- sign 32.735 $\pm$ 0.132  $\chi^2$ /NDF: 5520.9/29

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.182 $\pm$ 0.018  $\chi^2$ /NDF: 996.9/16

Left Out: 0.233 $\pm$ 0.007  $\chi^2$ /NDF:239.6/12

Right Out: -0.320 $\pm$ 0.018  $\chi^2$ /NDF: 1177.5/17

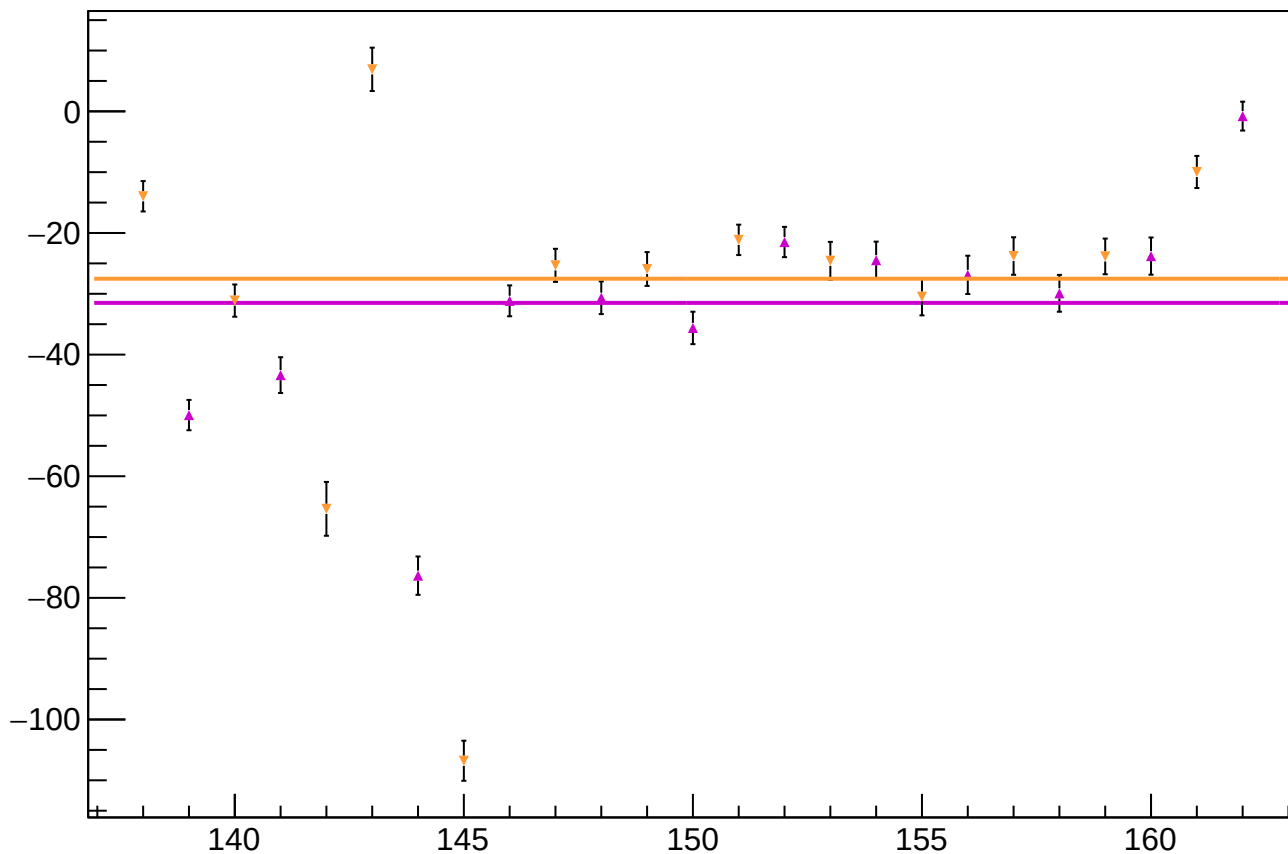
Left In: 0.193 $\pm$ 0.007  $\chi^2$ /NDF:303.9/11

+ sign 0.178 $\pm$ 0.007  $\chi^2$ /NDF: 1710.2/29

All: 0.153 $\pm$ 0.005  $\chi^2$ /NDF: 3913.5/59

- sign 0.130 $\pm$ 0.006  $\chi^2$ /NDF: 2175.7/29

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -27.521+/-0.810  $\chi^2/\text{NDF}$ : 832.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

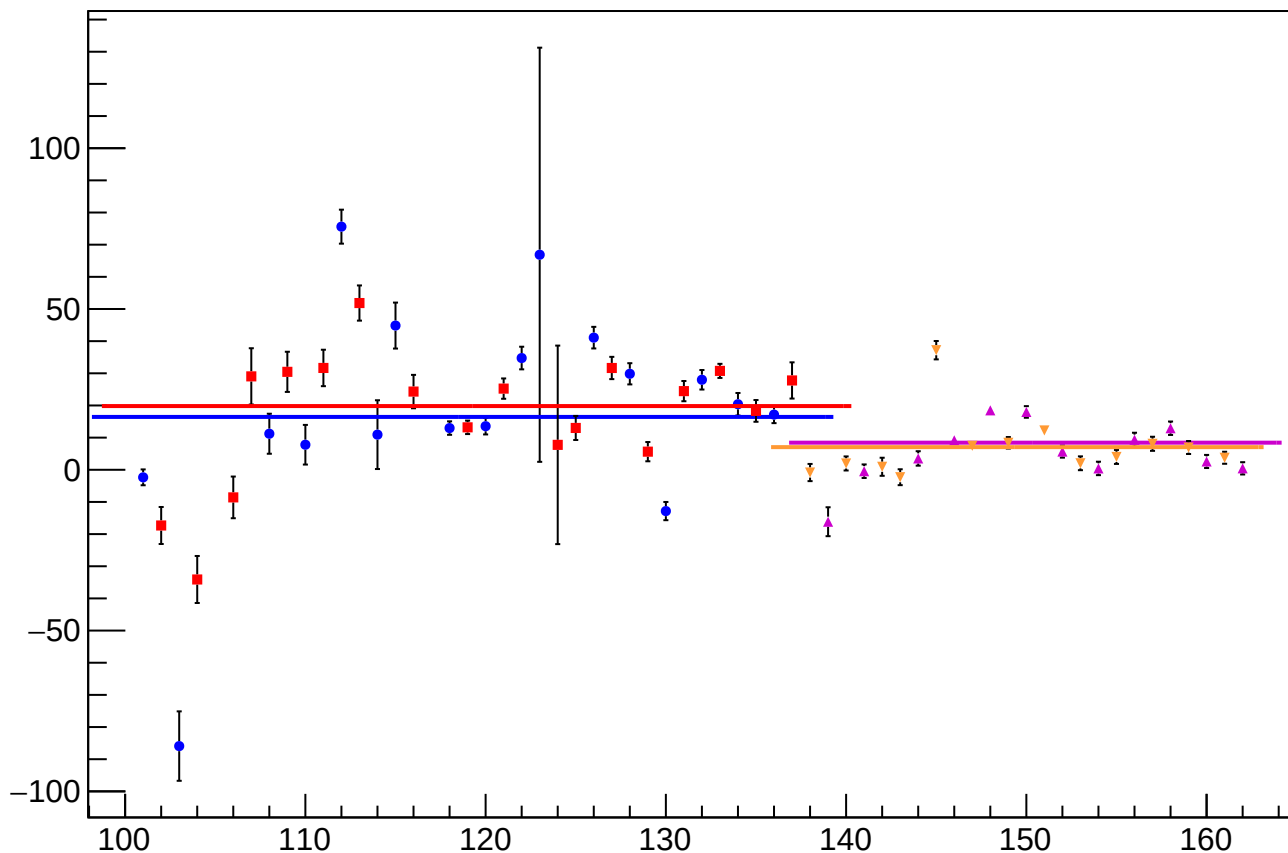
Left In: -31.495+/-0.797  $\chi^2/\text{NDF}$ : 473.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.540+/-0.568  $\chi^2/\text{NDF}$ : 1317.9/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In:  $16.439 \pm 0.849$   $\chi^2/\text{NDF}$ : 516.9/16

Left Out:  $7.041 \pm 0.547$   $\chi^2/\text{NDF}$ : 169.3/12

Right Out:  $19.813 \pm 0.899$   $\chi^2/\text{NDF}$ : 238.5/17

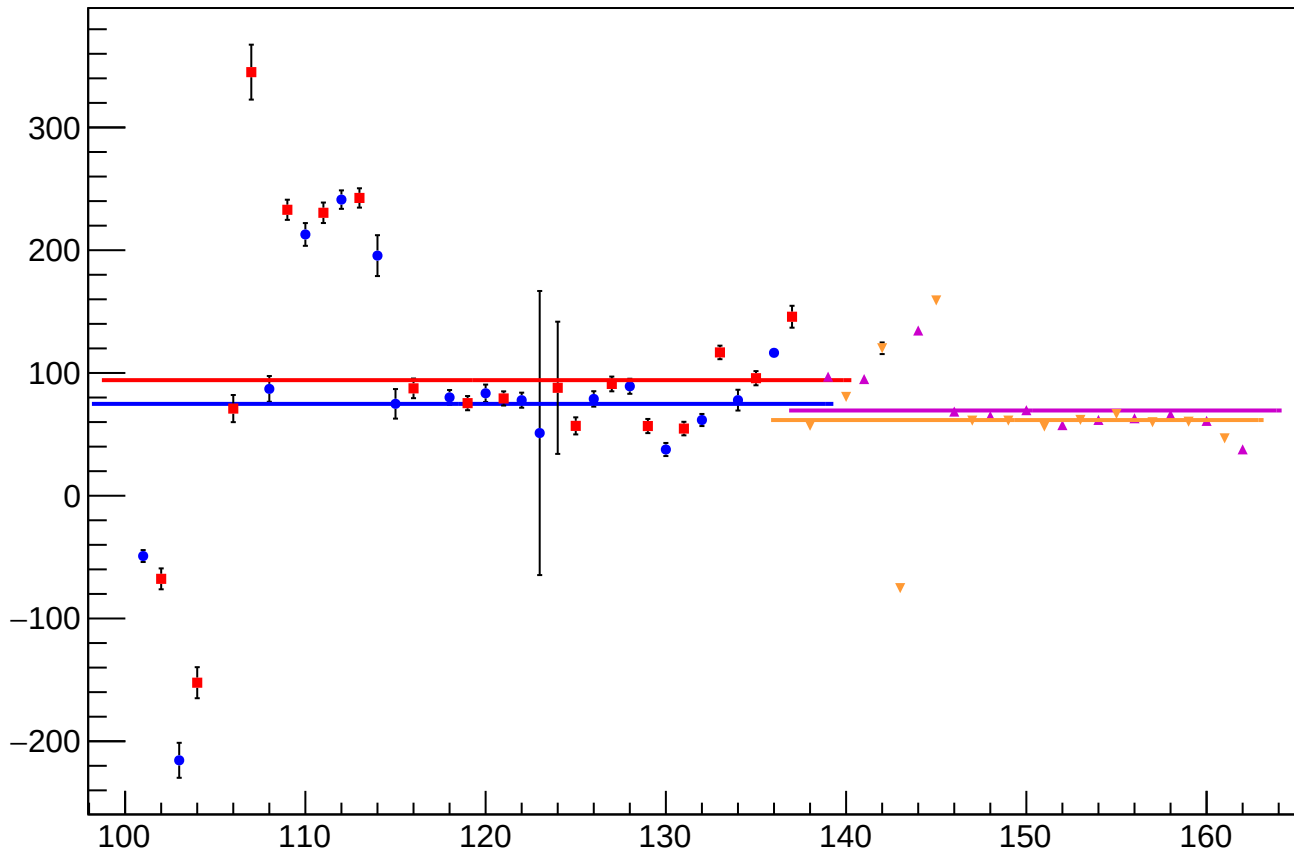
Left In:  $8.432 \pm 0.552$   $\chi^2/\text{NDF}$ : 187.0/11

+ sign  $9.801 \pm 0.460$   $\chi^2/\text{NDF}$ : 772.9/29

All:  $10.654 \pm 0.329$   $\chi^2/\text{NDF}$ : 1321.8/59

- sign  $11.545 \pm 0.470$   $\chi^2/\text{NDF}$ : 541.9/29

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 74.824 $\pm$ 1.639  $\chi^2/\text{NDF}$ : 1996.8/16

Left Out: 61.644 $\pm$ 0.791  $\chi^2/\text{NDF}$ : 2349.9/12

Right Out: 94.153 $\pm$ 1.720  $\chi^2/\text{NDF}$ : 1969.2/17

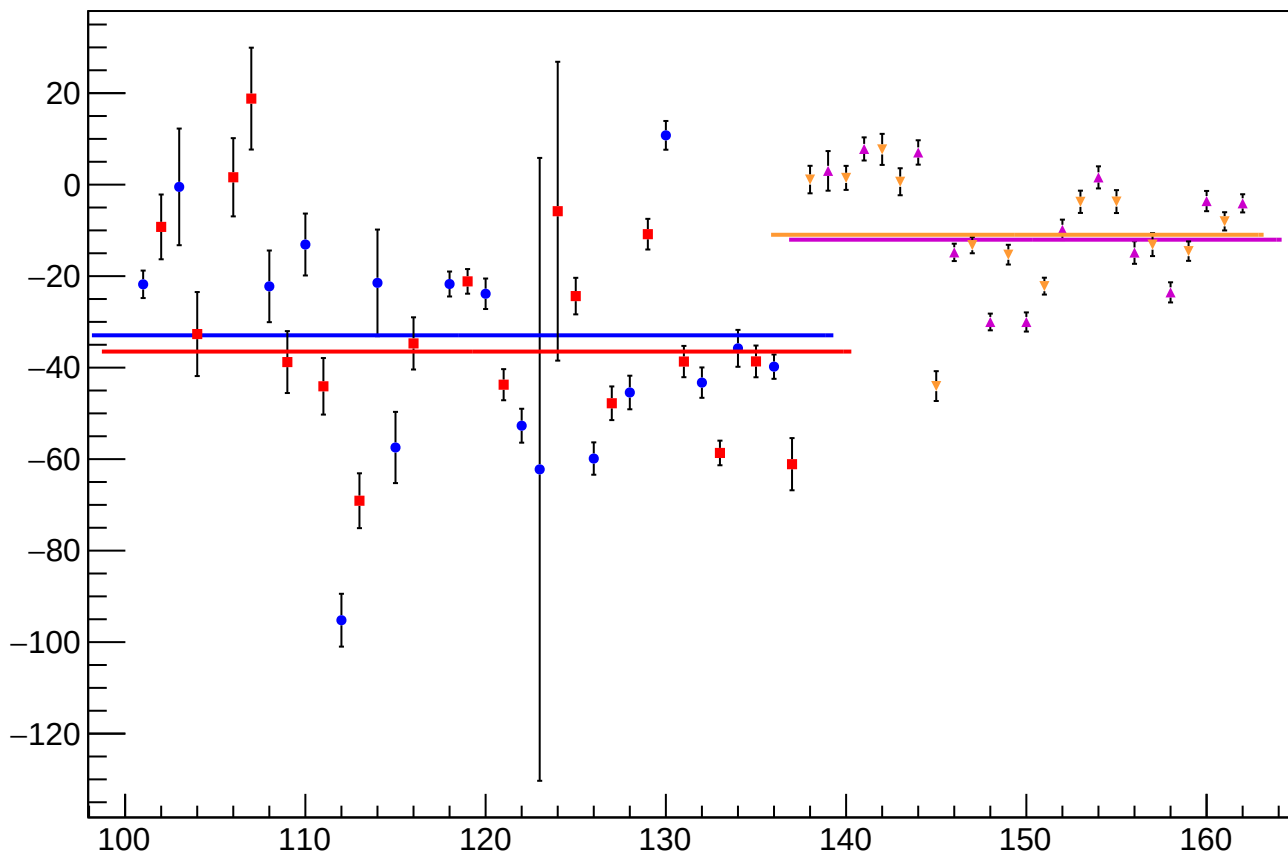
Left In: 69.439 $\pm$ 0.773  $\chi^2/\text{NDF}$ : 786.8/11

+ sign 64.137 $\pm$ 0.713  $\chi^2/\text{NDF}$ : 4399.2/29

All: 68.916 $\pm$ 0.501  $\chi^2/\text{NDF}$ : 7415.9/59

- sign 73.589 $\pm$ 0.705  $\chi^2/\text{NDF}$ : 2927.8/29

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}$ : 490.7/16

Left Out:  $-10.956 \pm 0.654$   $\chi^2/\text{NDF}$ : 252.8/12

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}$ : 293.2/17

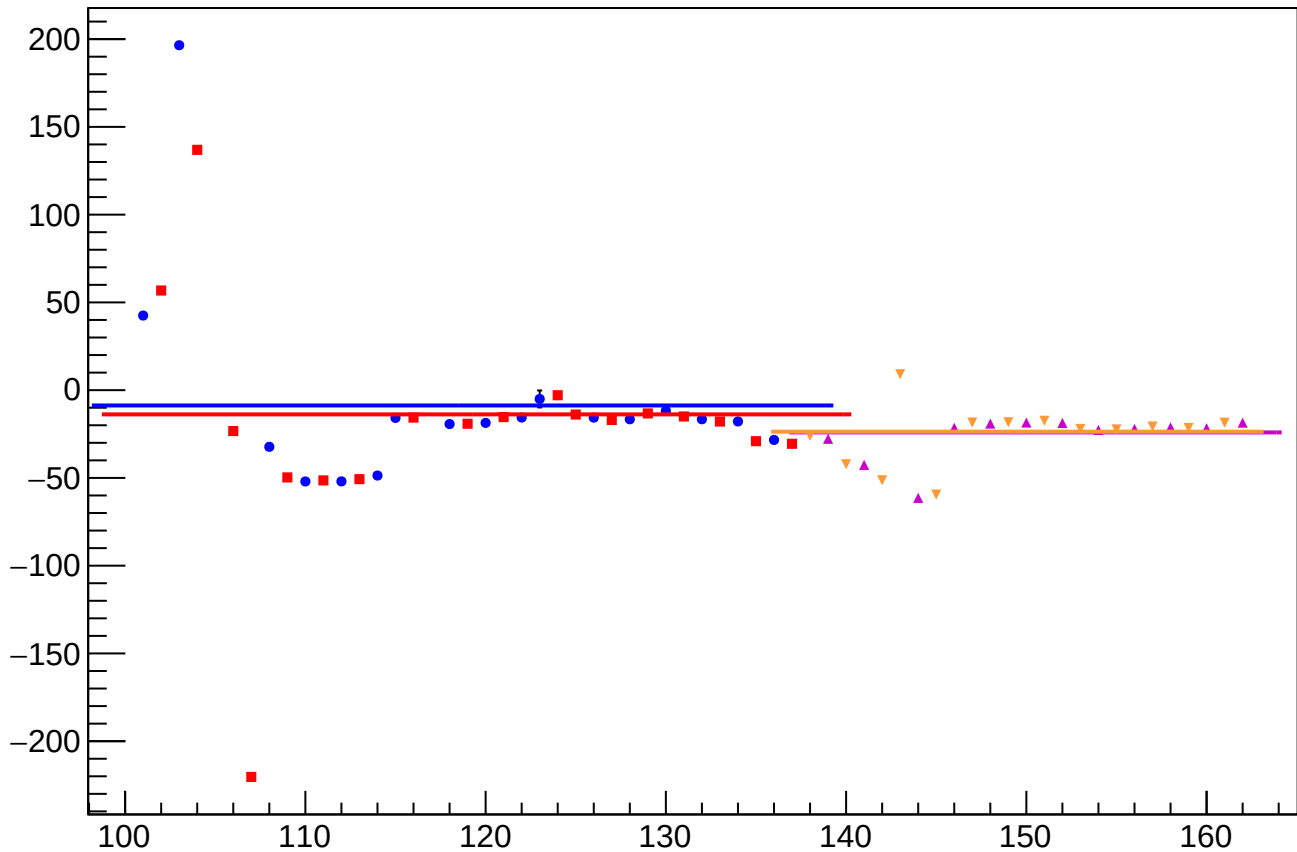
Left In:  $-12.035 \pm 0.651$   $\chi^2/\text{NDF}$ : 389.7/11

+ sign  $-17.794 \pm 0.543$   $\chi^2/\text{NDF}$ : 1094.8/29

All:  $-18.415 \pm 0.386$   $\chi^2/\text{NDF}$ : 2184.8/59

- sign  $-19.053 \pm 0.550$   $\chi^2/\text{NDF}$ : 1087.4/29

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}: 575838.7/16$

Left Out:  $-23.649 \pm 0.031$   $\chi^2/\text{NDF}: 173342.1/12$

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}: 549380.2/17$

Left In:  $-24.078 \pm 0.030$   $\chi^2/\text{NDF}: 101207.1/11$

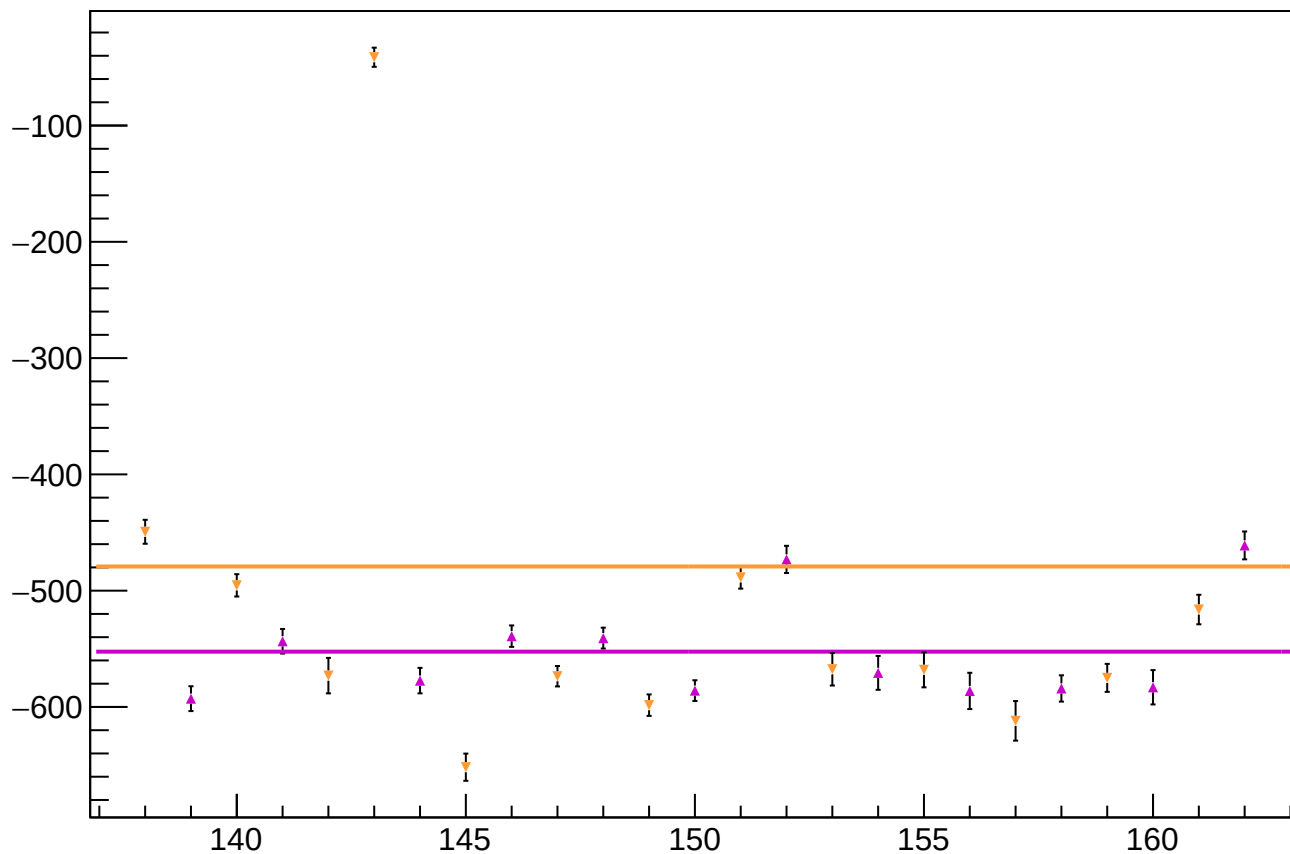
+ sign  $-20.426 \pm 0.027$   $\chi^2/\text{NDF}: 799588.5/29$

All:  $-21.285 \pm 0.019$   $\chi^2/\text{NDF}: 1474347.0/59$

- sign  $-22.125 \pm 0.027$   $\chi^2/\text{NDF}: 672808.9/29$



# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -479.187+/-3.042  $\chi^2/\text{NDF}$ : 3592.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

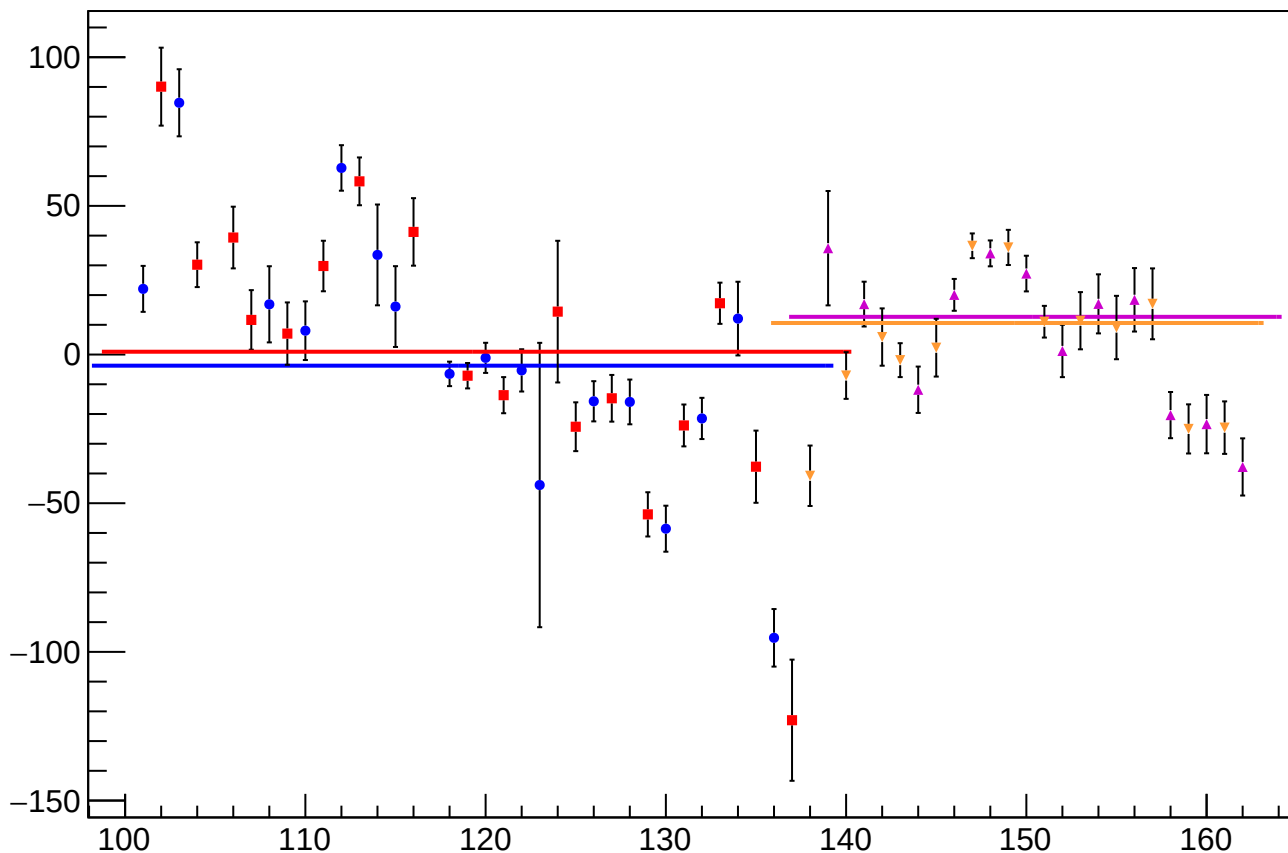
Left In: -552.444+/-3.189  $\chi^2/\text{NDF}$ : 160.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -514.081+/-2.201  $\chi^2/\text{NDF}$ : 4029.2/24

- 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:  $10.615 \pm 1.986$   $\chi^2/\text{NDF}$ : 128.6/12

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

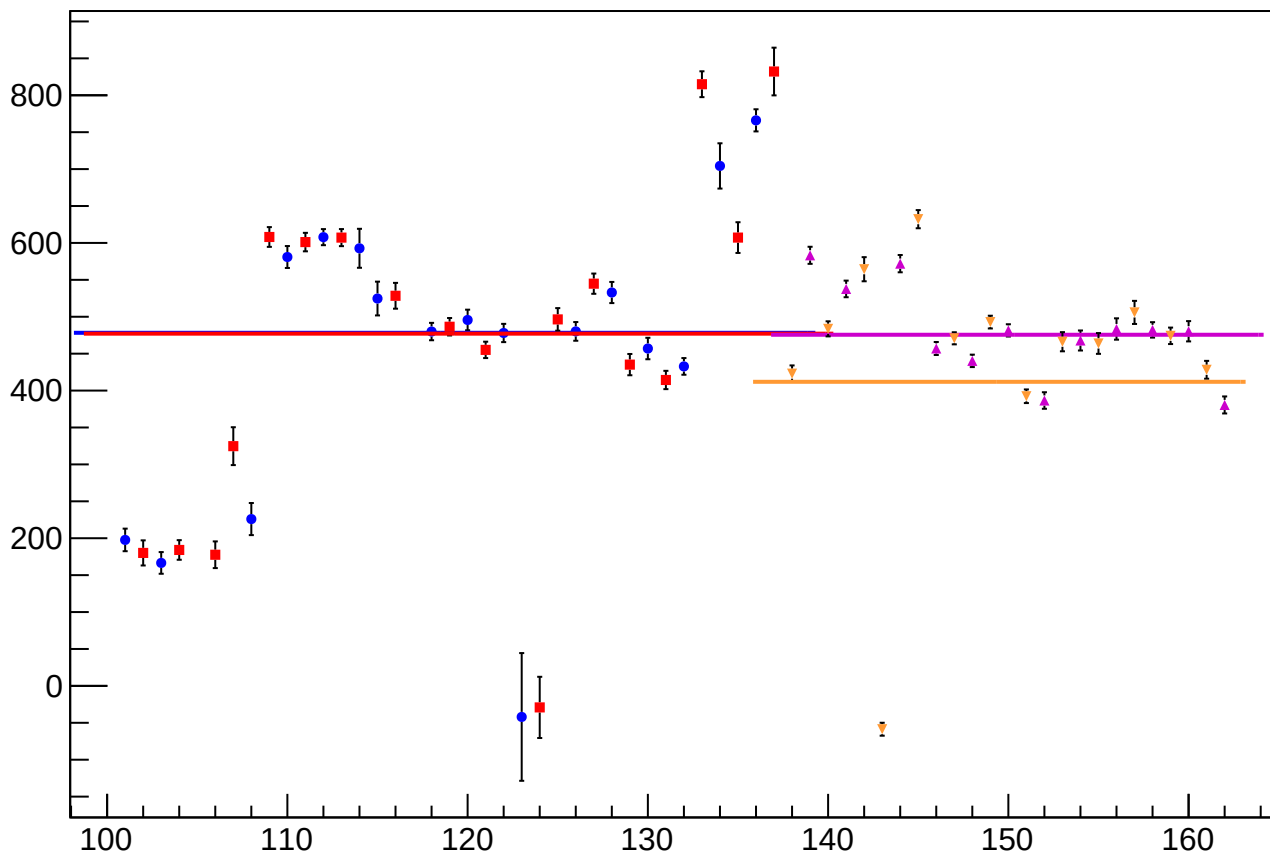
Left In:  $12.686 \pm 2.124$   $\chi^2/\text{NDF}$ : 104.8/11

+ sign  $3.089 \pm 1.370$   $\chi^2/\text{NDF}$ : 470.1/29

All:  $4.595 \pm 0.987$   $\chi^2/\text{NDF}$ : 887.9/59

- sign  $6.221 \pm 1.423$   $\chi^2/\text{NDF}$ : 415.3/29

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In:  $478.265 \pm 3.638$   $\chi^2/\text{NDF}: 1627.9/16$

Left Out:  $411.884 \pm 3.003$   $\chi^2/\text{NDF}: 3578.8/12$

Right Out:  $477.101 \pm 3.541$   $\chi^2/\text{NDF}: 2175.8/17$

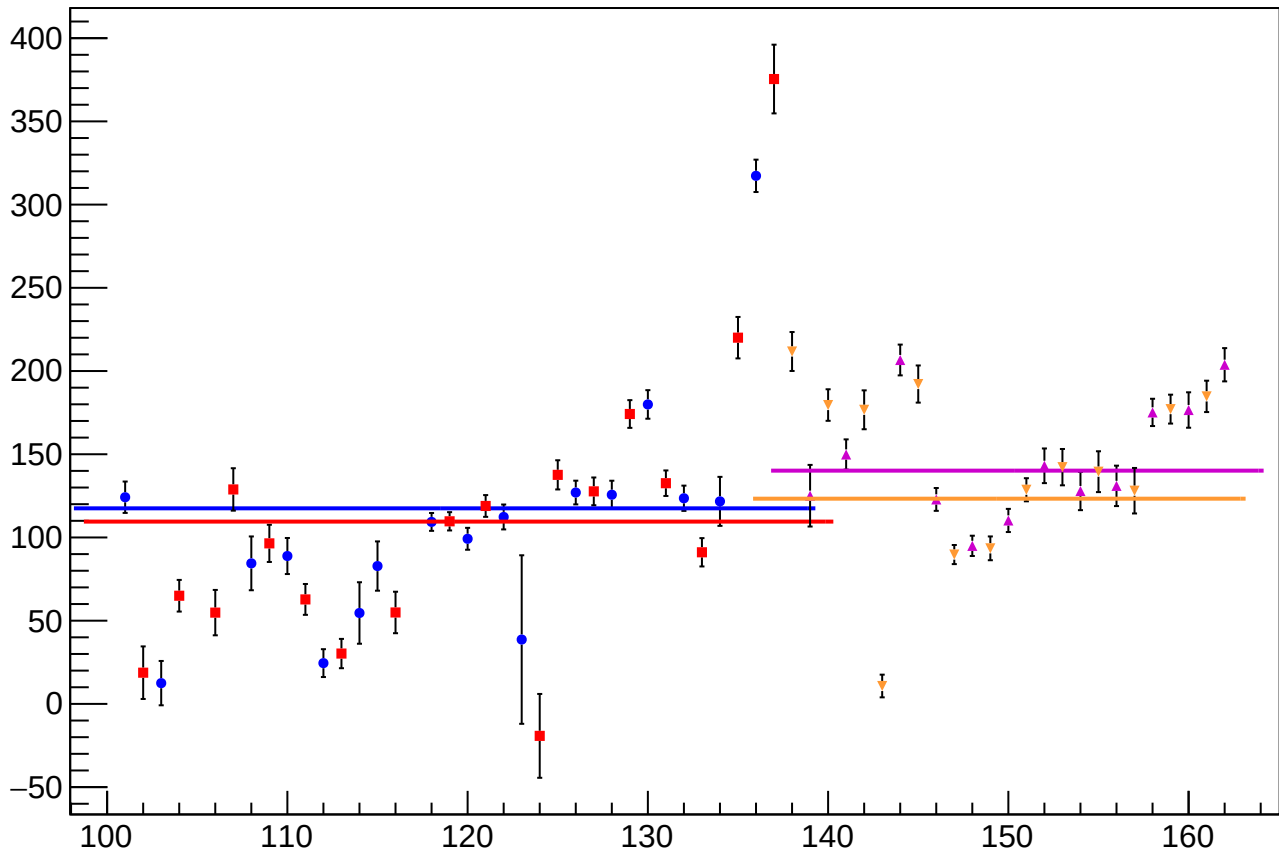
Left In:  $475.609 \pm 3.097$   $\chi^2/\text{NDF}: 339.7/11$

+ sign  $438.782 \pm 2.316$   $\chi^2/\text{NDF}: 5404.8/29$

All:  $457.396 \pm 1.643$   $\chi^2/\text{NDF}: 8050.4/59$

- sign  $476.256 \pm 2.331$   $\chi^2/\text{NDF}: 2515.6/29$

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In:  $117.502 \pm 2.198$   $\chi^2/\text{NDF}: 705.9/16$

Left Out:  $123.301 \pm 2.419$   $\chi^2/\text{NDF}: 562.1/12$

Right Out:  $109.536 \pm 2.208$   $\chi^2/\text{NDF}: 562.2/17$

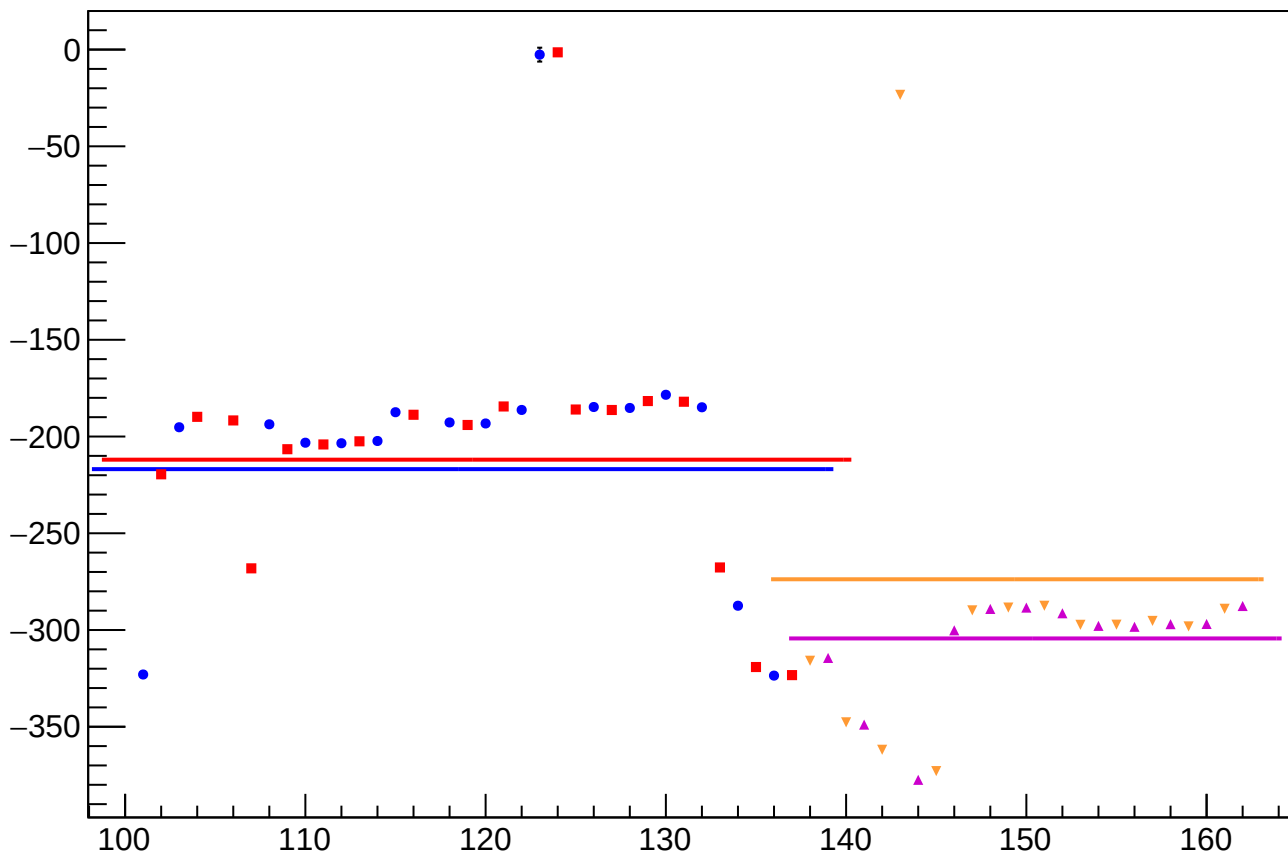
Left In:  $140.149 \pm 2.557$   $\chi^2/\text{NDF}: 205.6/11$

+ sign  $120.124 \pm 1.627$   $\chi^2/\text{NDF}: 1271.1/29$

All:  $121.334 \pm 1.166$   $\chi^2/\text{NDF}: 2122.2/59$

- sign  $122.612 \pm 1.671$   $\chi^2/\text{NDF}: 849.9/29$

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}$ : 146927.1/16

Left Out:  $-273.776 \pm 0.121$   $\chi^2/\text{NDF}$ : 617172.0/12

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}$ : 112091.8/17

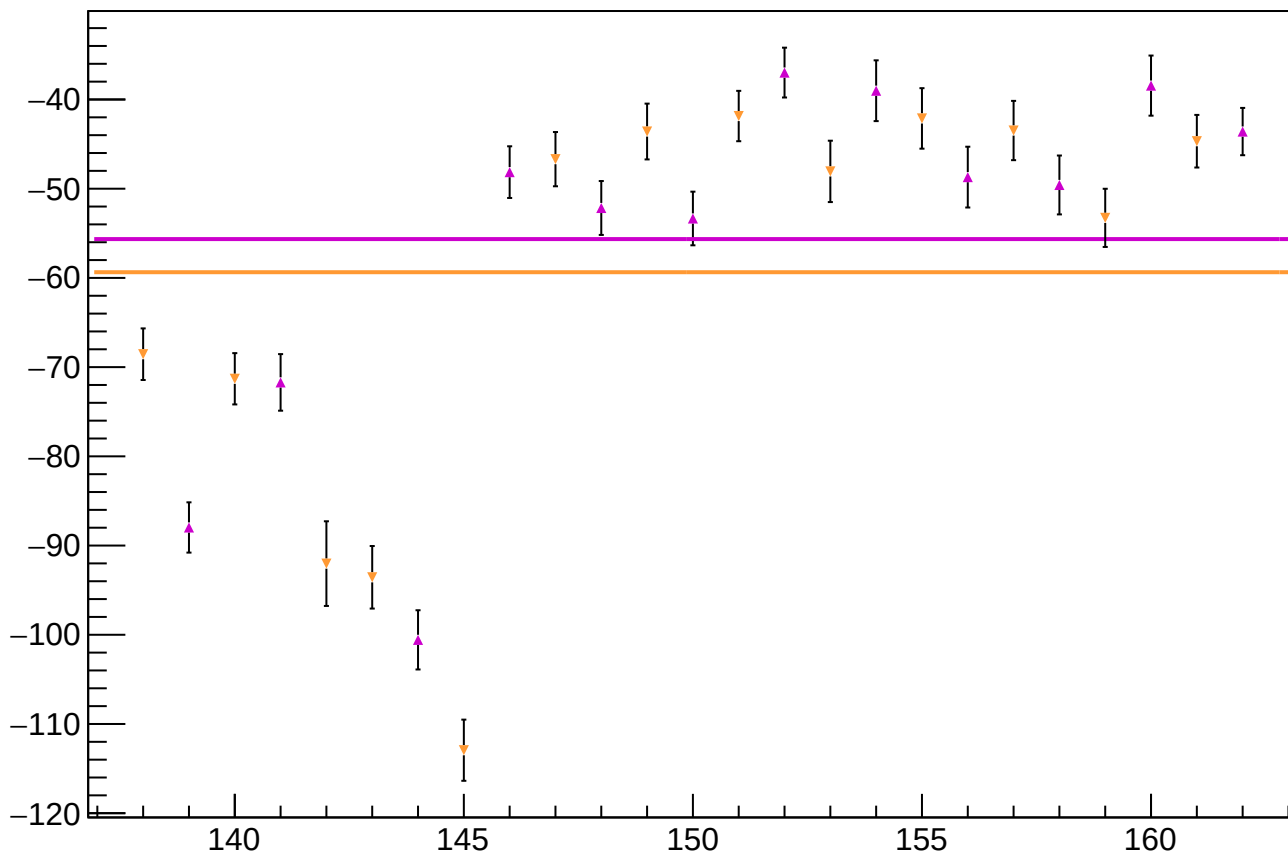
Left In:  $-304.358 \pm 0.123$   $\chi^2/\text{NDF}$ : 37585.3/11

+ sign  $-248.609 \pm 0.090$   $\chi^2/\text{NDF}$ : 862026.8/29

All:  $-254.817 \pm 0.064$   $\chi^2/\text{NDF}$ : 1286068.2/59

- sign  $-260.922 \pm 0.090$   $\chi^2/\text{NDF}$ : 414675.5/29

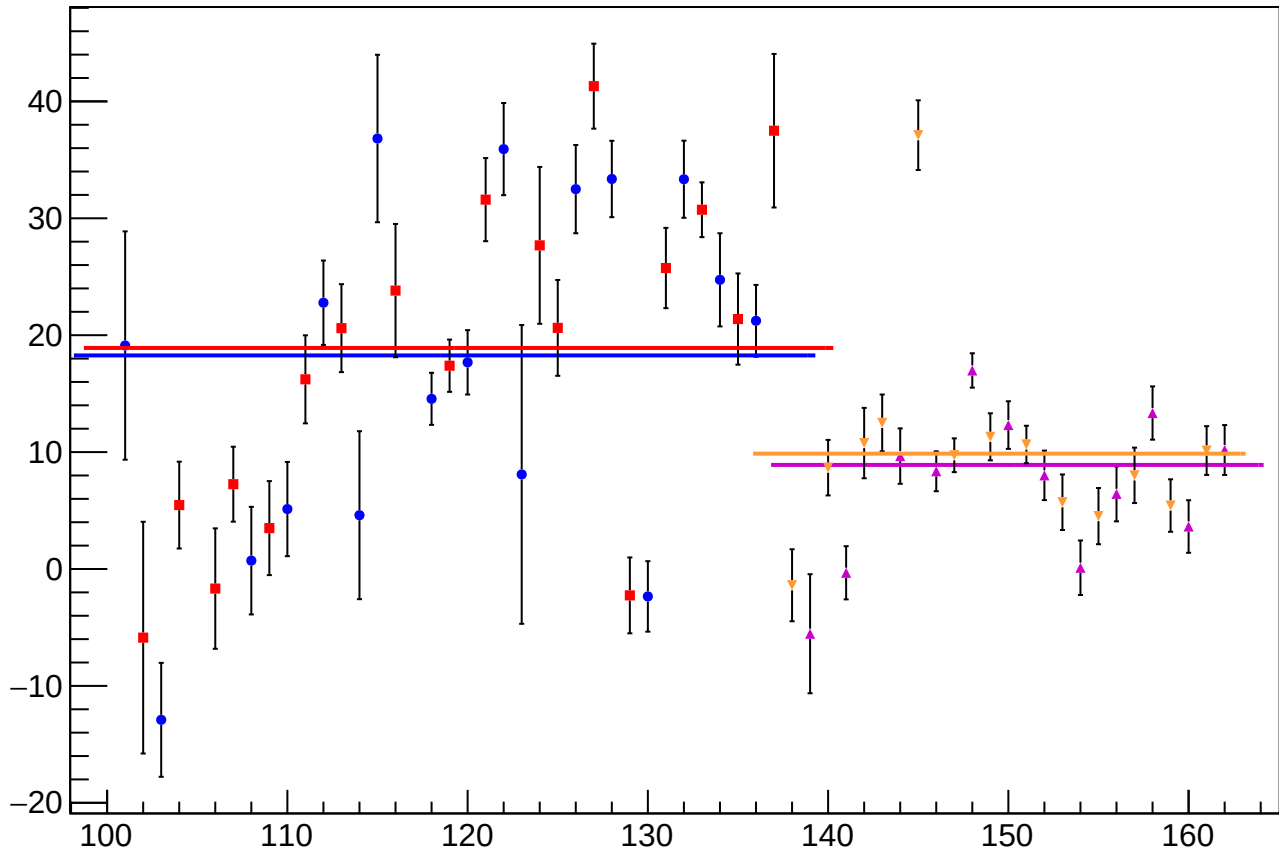
# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -59.361+/-0.891  $\chi^2/\text{NDF}$ : 583.2/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -55.647+/-0.884  $\chi^2/\text{NDF}$ : 471.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -57.490+/-0.628  $\chi^2/\text{NDF}$ : 1063.7/24  
 - 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:  $9.866 \pm 0.603$   $\chi^2/\text{NDF}$ : 111.7/12

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

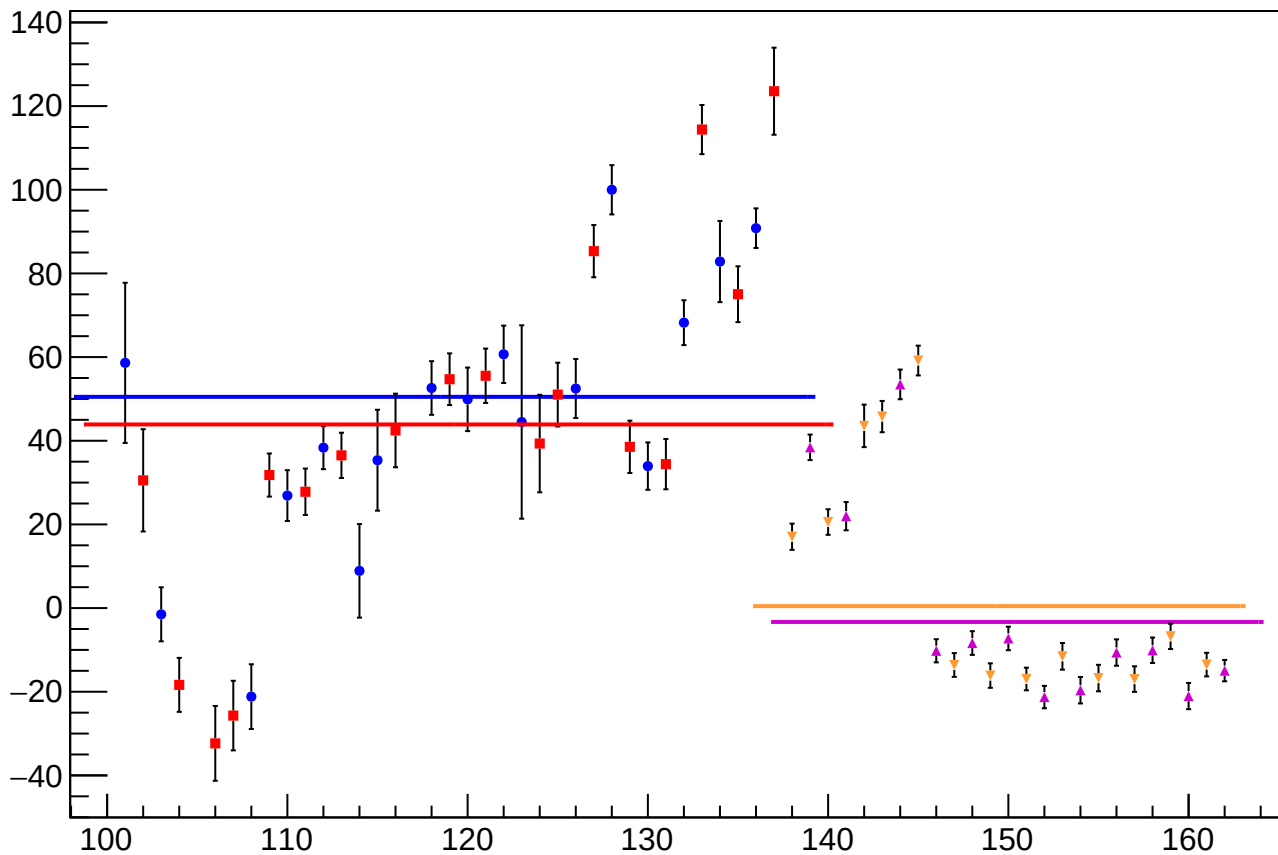
Left In:  $8.903 \pm 0.614$   $\chi^2/\text{NDF}$ : 82.9/11

+ sign  $12.443 \pm 0.502$   $\chi^2/\text{NDF}$ : 379.5/29

All:  $12.350 \pm 0.354$   $\chi^2/\text{NDF}$ : 749.7/59

- sign  $12.257 \pm 0.500$   $\chi^2/\text{NDF}$ : 370.1/29

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In:  $50.497 \pm 1.671$   $\chi^2/\text{NDF}$ : 363.2/16

Left Out:  $0.464 \pm 0.872$   $\chi^2/\text{NDF}$ : 766.4/12

Right Out:  $43.895 \pm 1.604$   $\chi^2/\text{NDF}$ : 531.7/17

Left In:  $-3.313 \pm 0.858$   $\chi^2/\text{NDF}$ : 645.3/11

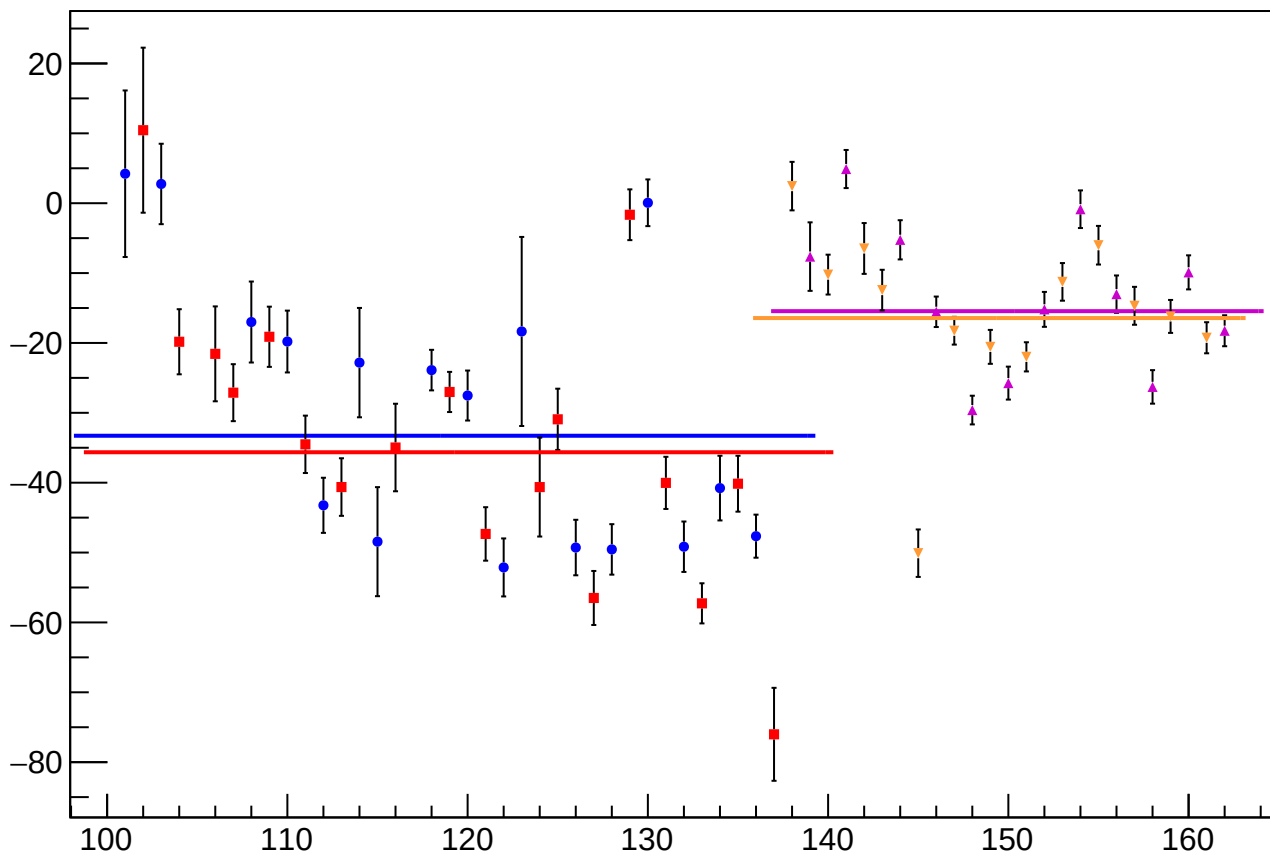
+ sign  $11.174 \pm 0.773$   $\chi^2/\text{NDF}$ : 1834.4/29

All:  $9.139 \pm 0.541$   $\chi^2/\text{NDF}$ : 3698.7/59

- sign  $7.191 \pm 0.756$   $\chi^2/\text{NDF}$ : 1850.8/29



# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}$ : 292.9/16

Left Out:  $-16.438 \pm 0.721$   $\chi^2/\text{NDF}$ : 172.6/12

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}$ : 284.6/17

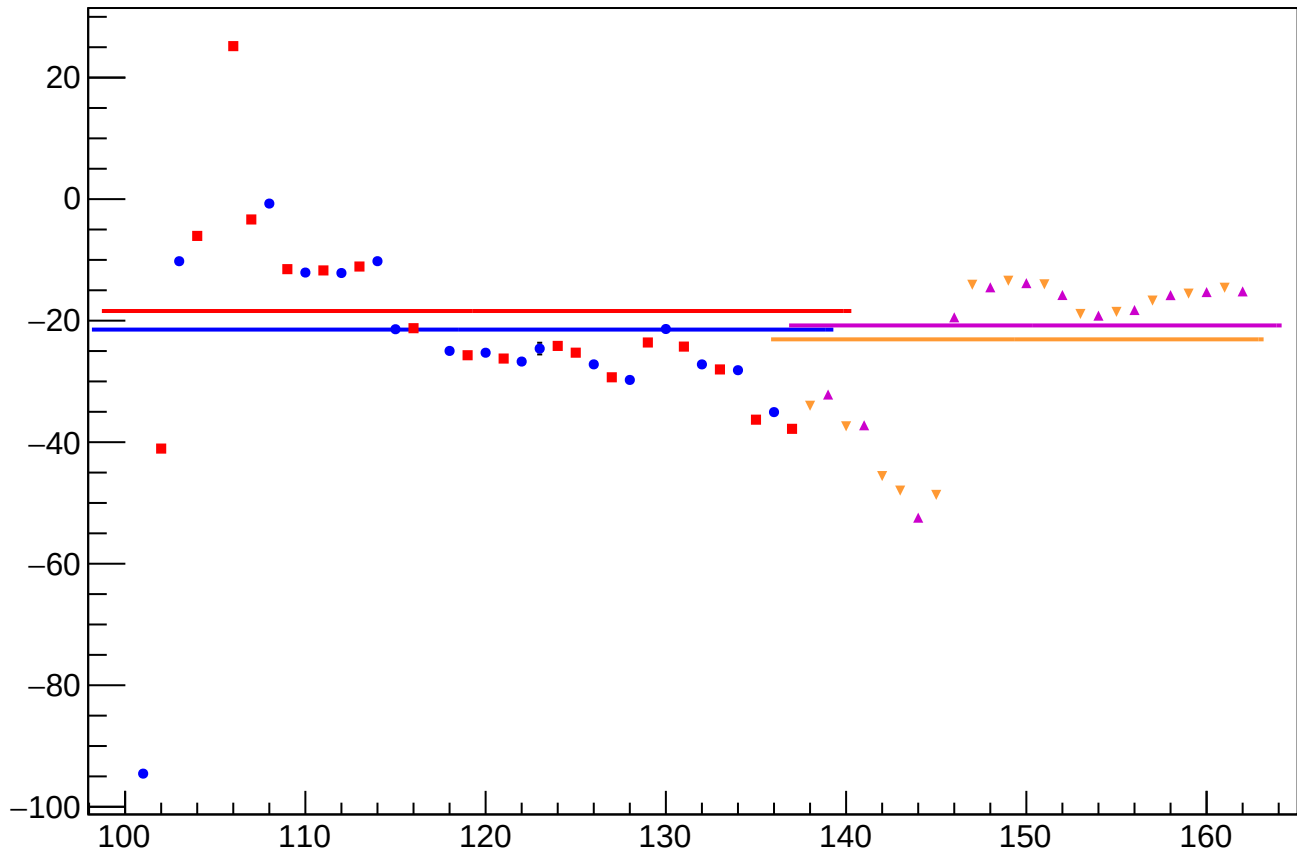
Left In:  $-15.448 \pm 0.723$   $\chi^2/\text{NDF}$ : 195.4/11

+ sign  $-21.939 \pm 0.591$   $\chi^2/\text{NDF}$ : 644.0/29

All:  $-22.196 \pm 0.416$   $\chi^2/\text{NDF}$ : 1394.7/59

- sign  $-22.447 \pm 0.584$   $\chi^2/\text{NDF}$ : 750.4/29

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}$ : 48979.5/16

Left Out:  $-23.076 \pm 0.034$   $\chi^2/\text{NDF}$ : 126909.2/12

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}$ : 77587.3/17

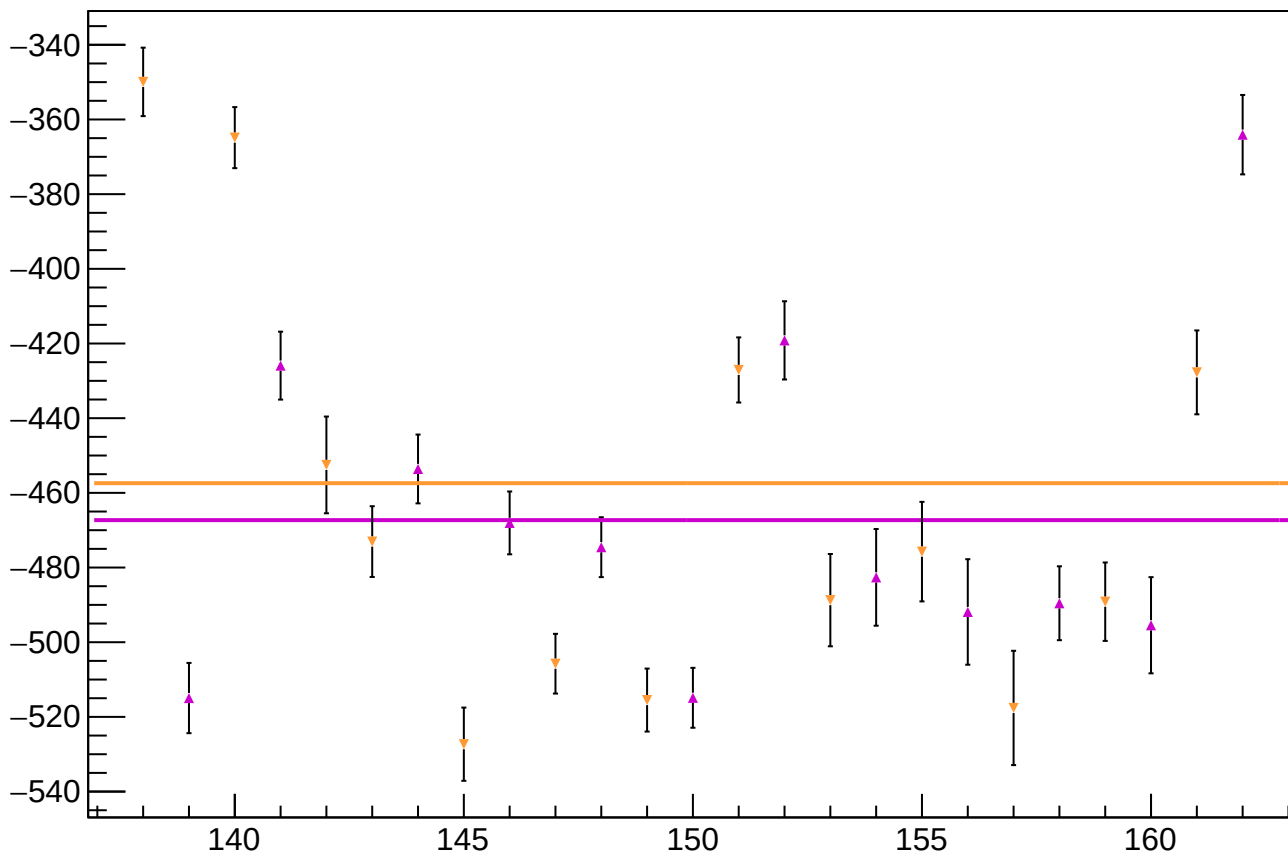
Left In:  $-20.787 \pm 0.033$   $\chi^2/\text{NDF}$ : 83946.9/11

+ sign  $-22.672 \pm 0.029$   $\chi^2/\text{NDF}$ : 176449.4/29

All:  $-21.404 \pm 0.021$   $\chi^2/\text{NDF}$ : 342904.1/59

- sign  $-20.187 \pm 0.029$   $\chi^2/\text{NDF}$ : 162815.3/29

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -457.405+/-2.767  $\chi^2/\text{NDF}$ : 455.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

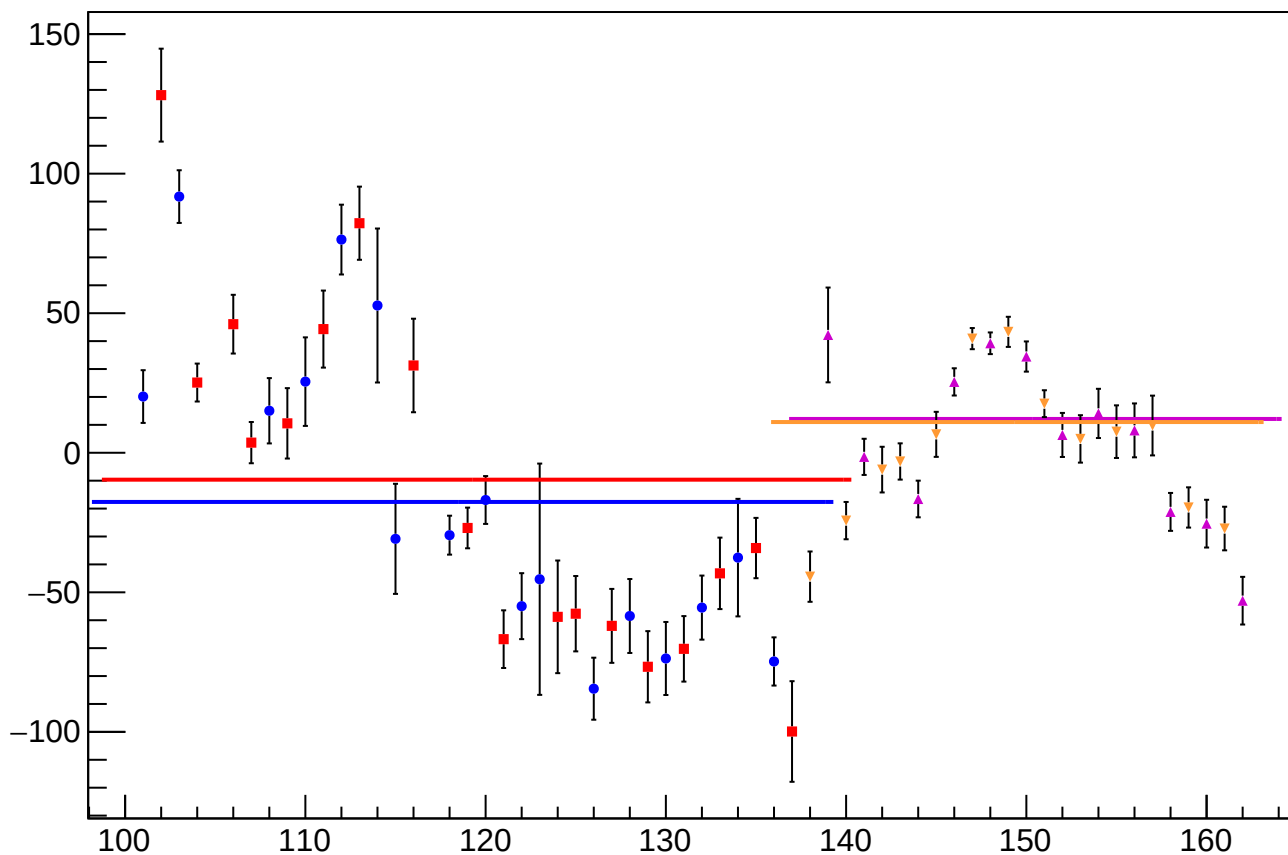
Left In: -467.303+/-2.822  $\chi^2/\text{NDF}$ : 214.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -462.256+/-1.976  $\chi^2/\text{NDF}$ : 675.8/24

- 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:  $11.008 \pm 1.810$   $\chi^2/\text{NDF}$ : 217.6/12

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}$ : 360.7/17

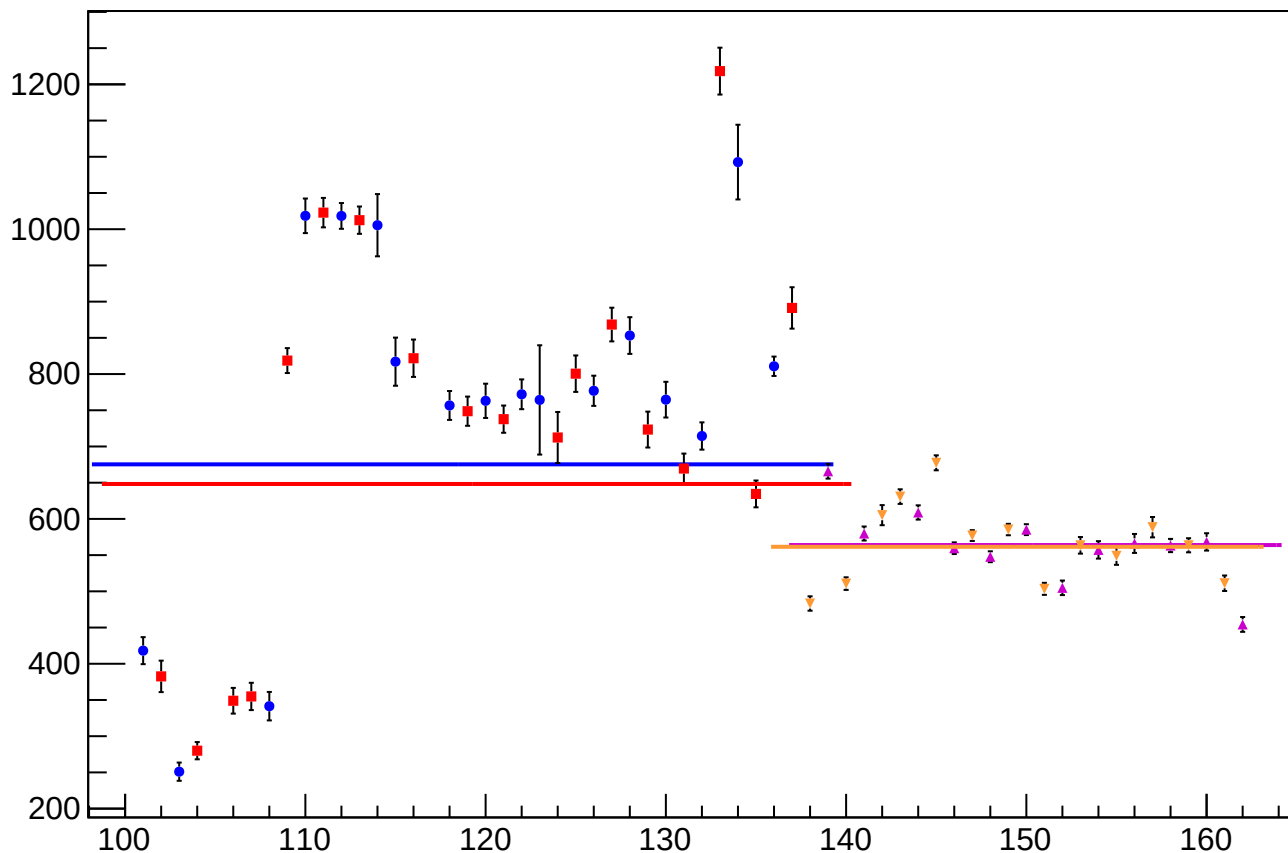
Left In:  $12.114 \pm 1.884$   $\chi^2/\text{NDF}$ : 202.0/11

+ sign  $2.514 \pm 1.518$   $\chi^2/\text{NDF}$ : 653.8/29

All:  $3.584 \pm 1.077$   $\chi^2/\text{NDF}$ : 1263.1/59

- sign  $4.670 \pm 1.528$   $\chi^2/\text{NDF}$ : 608.2/29

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In:  $675.339 \pm 5.046$   $\chi^2/\text{NDF}: 2582.7/16$

Left Out:  $561.500 \pm 2.726$   $\chi^2/\text{NDF}: 368.1/12$

Right Out:  $648.229 \pm 4.775$   $\chi^2/\text{NDF}: 3059.0/17$

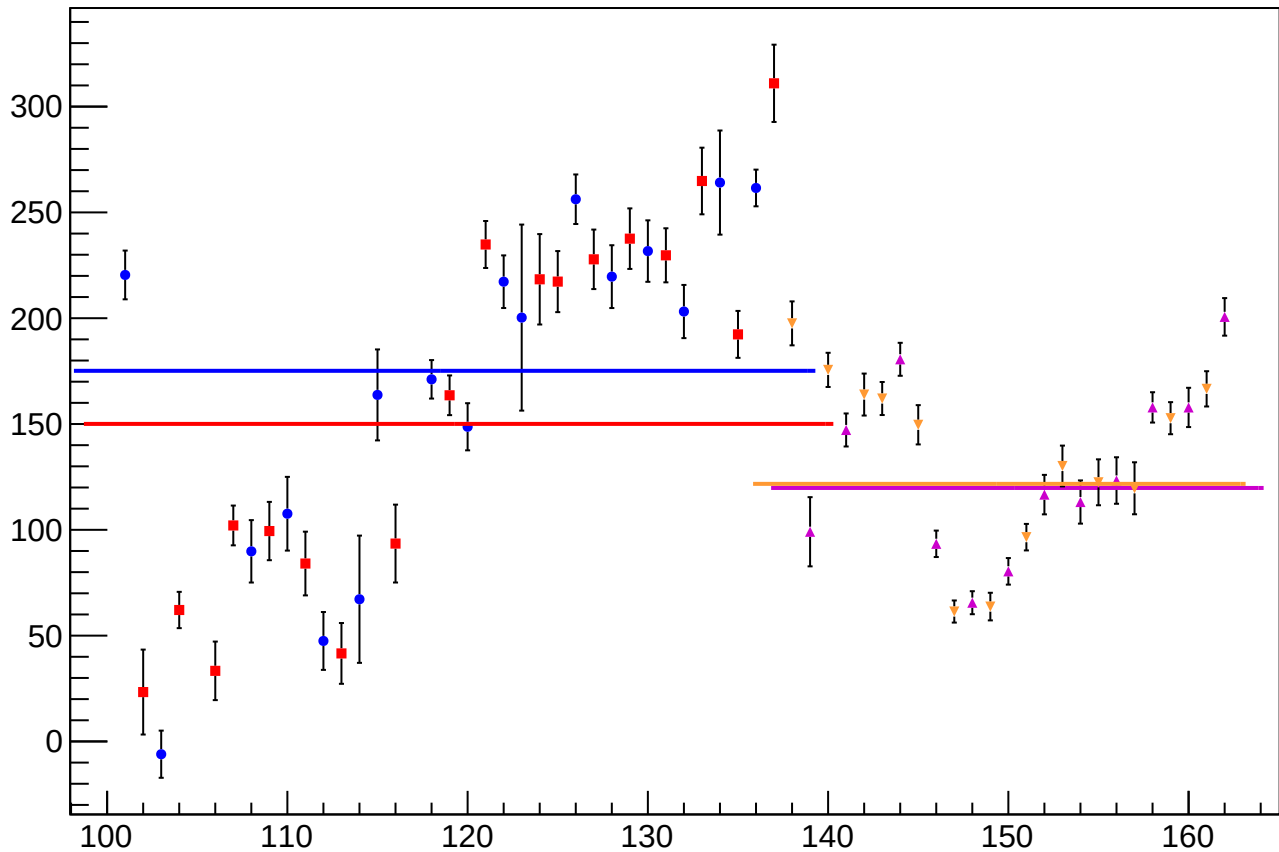
Left In:  $563.893 \pm 2.745$   $\chi^2/\text{NDF}: 286.3/11$

+ sign  $587.217 \pm 2.398$   $\chi^2/\text{NDF}: 3344.8/29$

All:  $586.018 \pm 1.689$   $\chi^2/\text{NDF}: 6925.1/59$

- sign  $584.837 \pm 2.379$   $\chi^2/\text{NDF}: 3579.8/29$

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In:  $175.142 \pm 3.209$   $\chi^2/\text{NDF}$ : 635.6/16

Left Out:  $121.721 \pm 2.203$   $\chi^2/\text{NDF}$ : 426.7/12

Right Out:  $150.054 \pm 3.045$   $\chi^2/\text{NDF}$ : 686.2/17

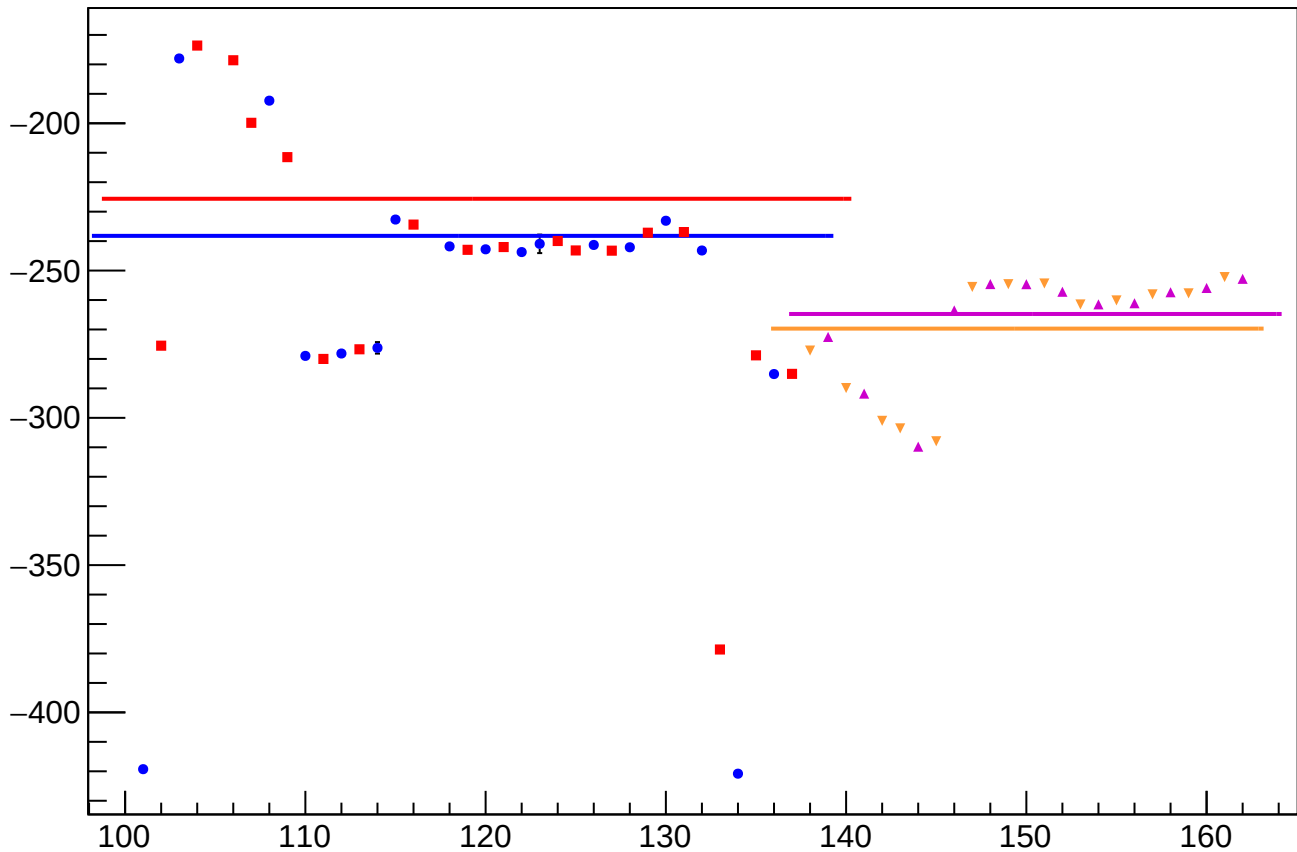
Left In:  $119.783 \pm 2.266$   $\chi^2/\text{NDF}$ : 360.4/11

+ sign  $138.830 \pm 1.816$   $\chi^2/\text{NDF}$ : 1250.7/29

All:  $134.707 \pm 1.285$   $\chi^2/\text{NDF}$ : 2371.1/59

- sign  $130.574 \pm 1.818$   $\chi^2/\text{NDF}$ : 1110.1/29

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In: -238.217 $\pm$ 0.160  $\chi^2$ /NDF: 167098.2/16

Left Out: -269.706 $\pm$ 0.110  $\chi^2$ /NDF: 31985.9/12

Right Out: -225.623 $\pm$ 0.152  $\chi^2$ /NDF: 95450.2/17

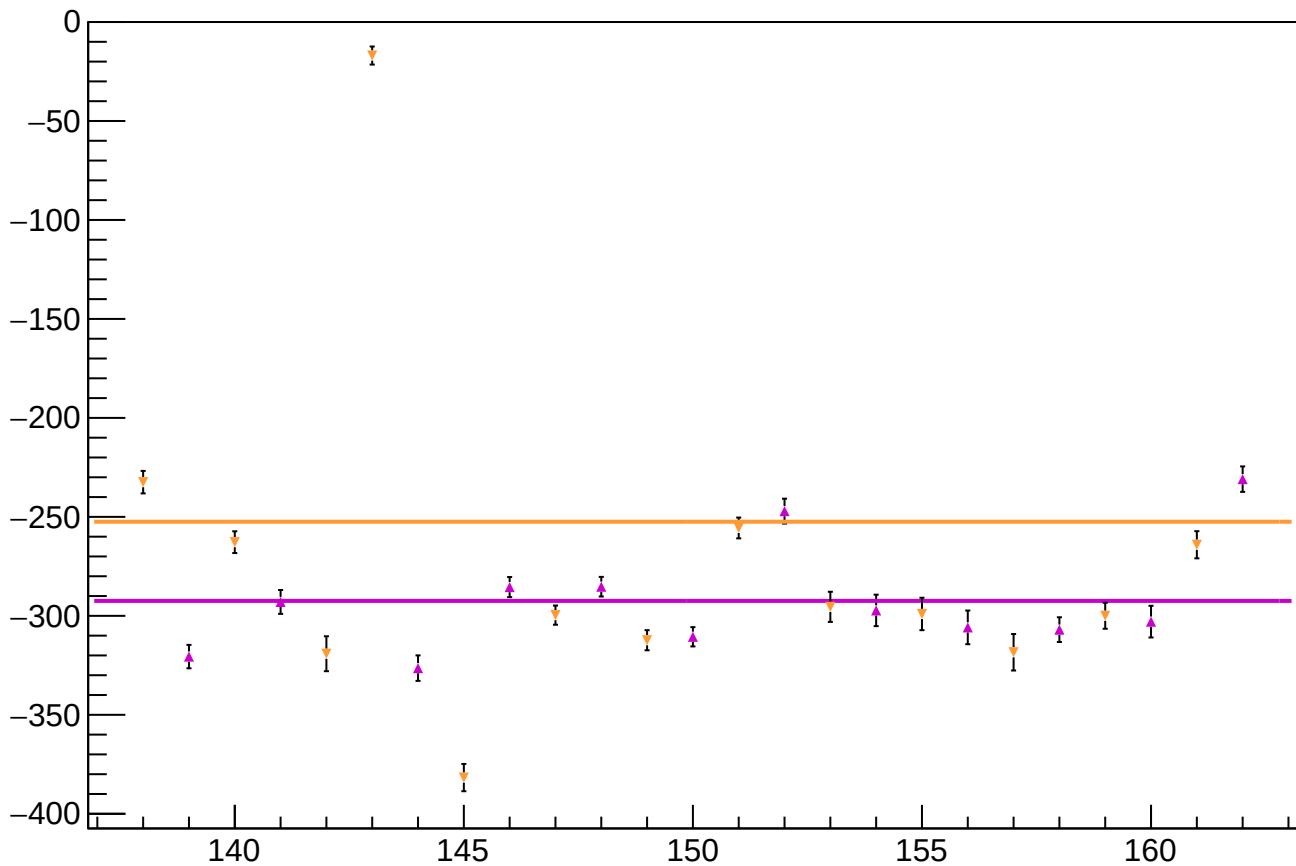
Left In: -264.740 $\pm$ 0.109  $\chi^2$ /NDF: 20455.2/11

+ sign -259.642 $\pm$ 0.090  $\chi^2$ /NDF: 225416.9/29

All: -255.431 $\pm$ 0.063  $\chi^2$ /NDF: 389452.7/59

- sign -251.403 $\pm$ 0.089  $\chi^2$ /NDF: 159798.9/29

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-252.453 \pm 1.685$   $\chi^2/\text{NDF}$ : 3493.9/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-292.456 \pm 1.762$   $\chi^2/\text{NDF}$ : 221.7/11

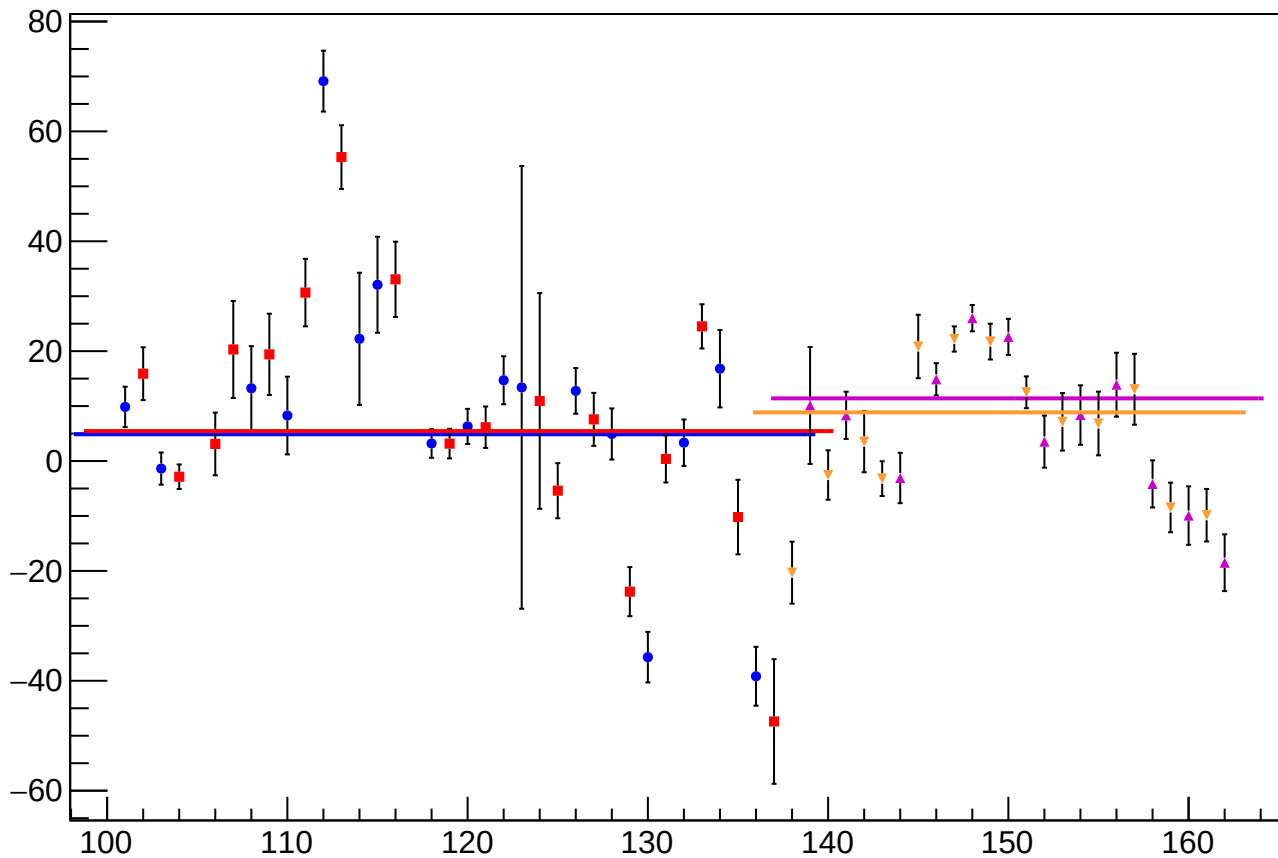
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-271.566 \pm 1.218$   $\chi^2/\text{NDF}$ : 3984.7/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $8.855 \pm 1.098$   $\chi^2/\text{NDF}: 134.8/12$

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}: 231.5/17$

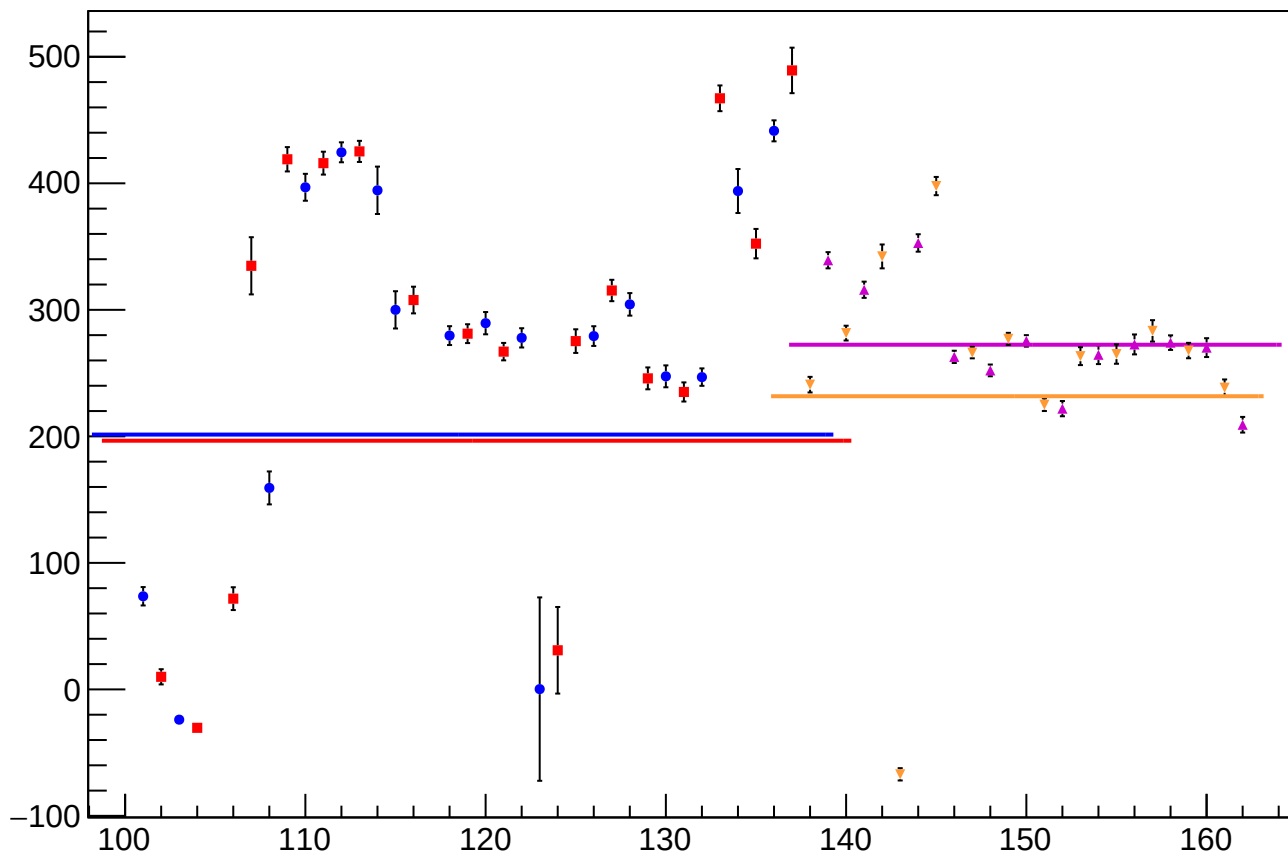
Left In:  $11.407 \pm 1.172$   $\chi^2/\text{NDF}: 126.6/11$

+ sign  $6.849 \pm 0.774$   $\chi^2/\text{NDF}: 452.9/29$

All:  $7.491 \pm 0.553$   $\chi^2/\text{NDF}: 826.6/59$

- sign  $8.161 \pm 0.791$   $\chi^2/\text{NDF}: 372.3/29$

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 201.407 $\pm$ 1.974  $\chi^2$ /NDF: 6740.4/16

Left Out: 231.715 $\pm$ 1.660  $\chi^2$ /NDF: 4774.1/12

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

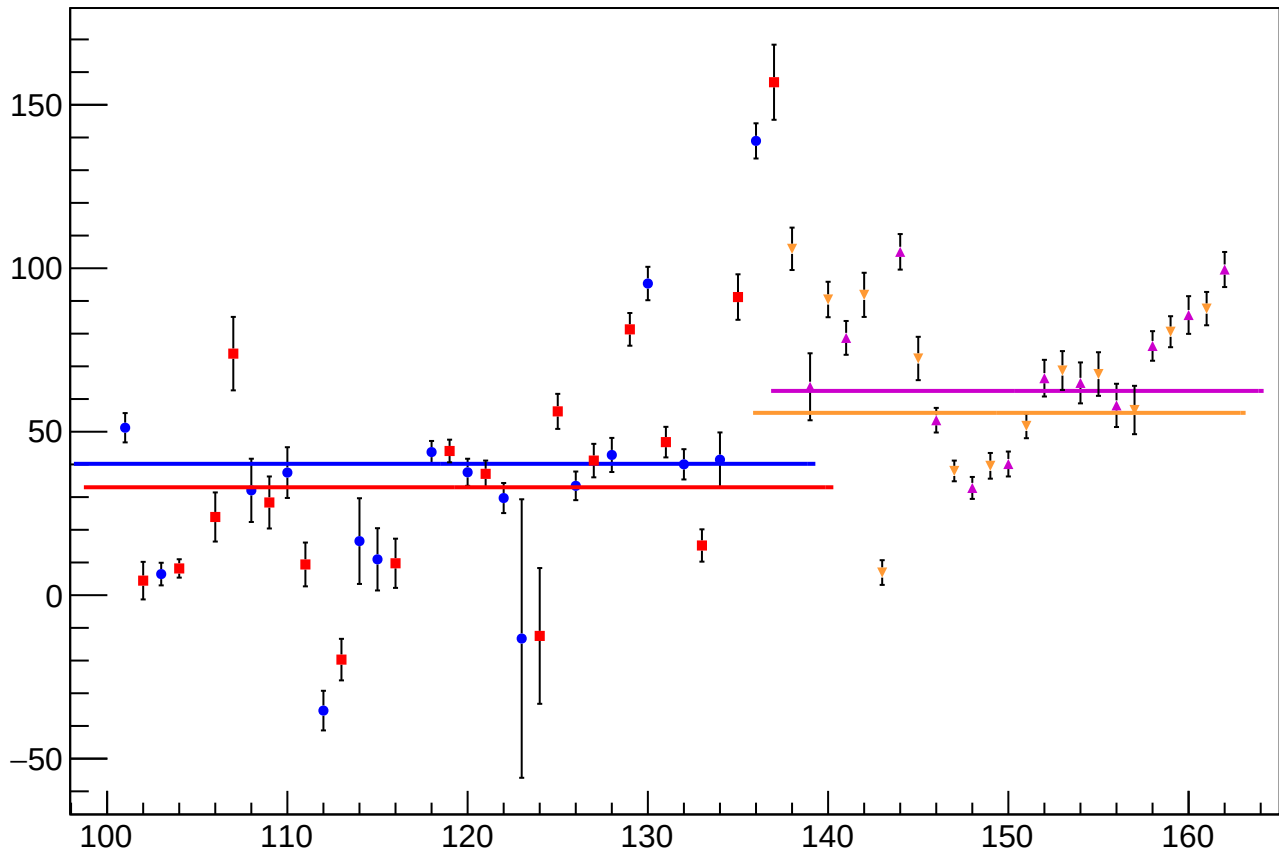
Left In: 272.426 $\pm$ 1.708  $\chi^2$ /NDF: 490.3/11

+ sign 219.154 $\pm$ 1.271  $\chi^2$ /NDF: 11652.6/29

All: 229.078 $\pm$ 0.901  $\chi^2$ /NDF: 21309.8/59

- sign 239.138 $\pm$ 1.279  $\chi^2$ /NDF: 9534.3/29

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.183+/-1.270  $\chi^2/\text{NDF}$ : 734.0/16

Left Out: 55.773+/-1.337  $\chi^2/\text{NDF}$ : 426.7/12

Right Out: 33.009+/-1.253  $\chi^2/\text{NDF}$ : 547.2/17

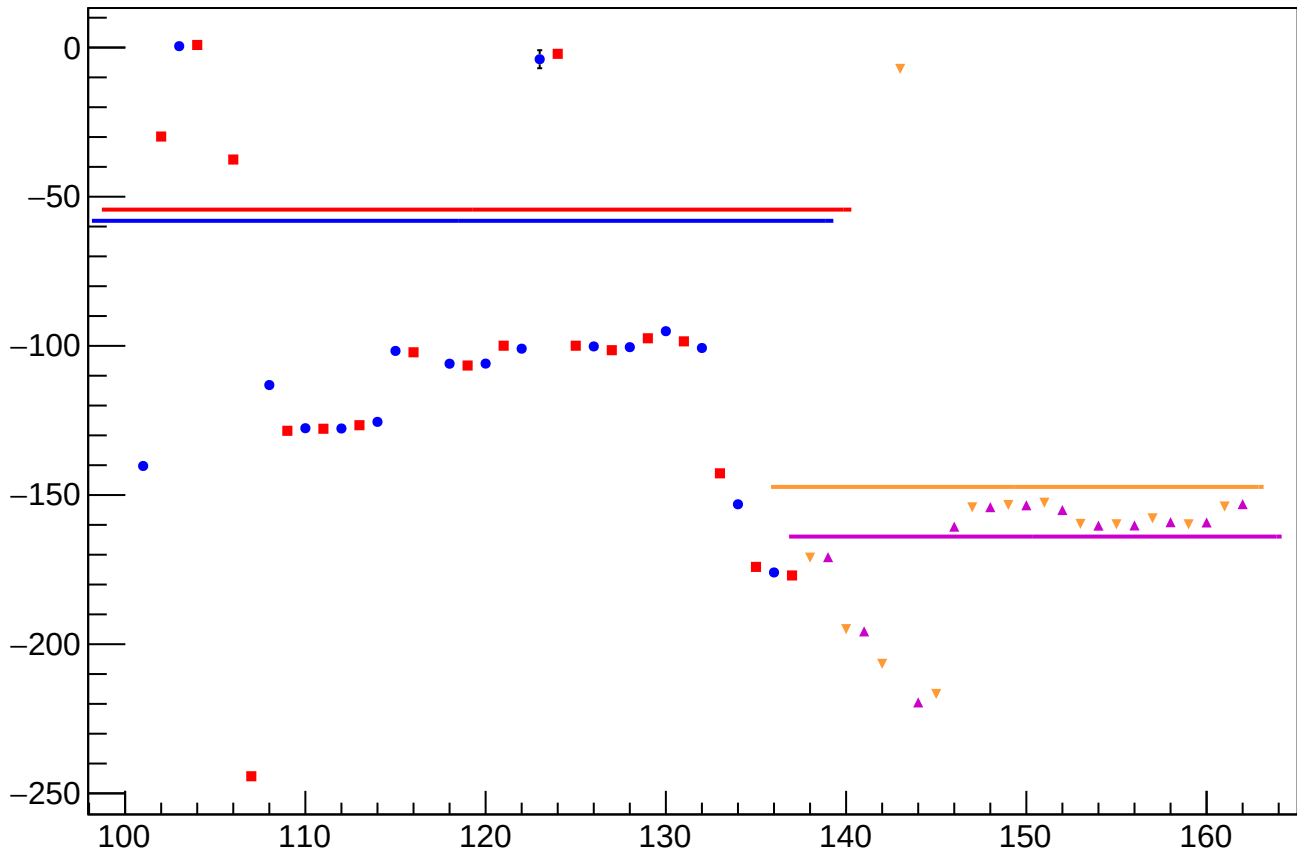
Left In: 62.486+/-1.411  $\chi^2/\text{NDF}$ : 263.6/11

+ sign 47.576+/-0.921  $\chi^2/\text{NDF}$ : 1232.2/29

All: 46.804+/-0.657  $\chi^2/\text{NDF}$ : 2288.4/59

- sign 46.005+/-0.937  $\chi^2/\text{NDF}$ : 1054.8/29

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -58.077 $\pm$ 0.062  $\chi^2$ /NDF: 1104437.7/16

Left Out: -147.273 $\pm$ 0.067  $\chi^2$ /NDF: 654873.3/12

Right Out: -54.323 $\pm$ 0.060  $\chi^2$ /NDF: 991053.6/17

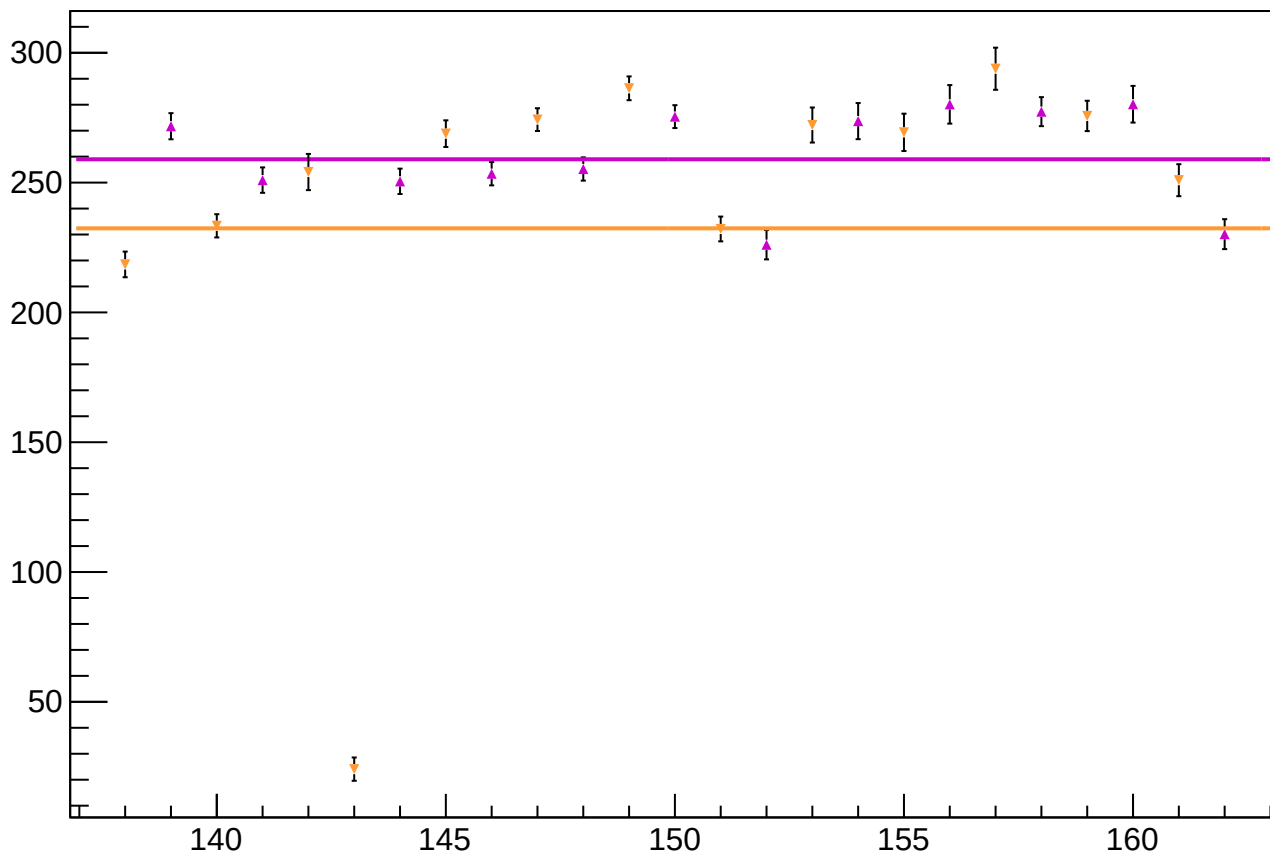
Left In: -163.922 $\pm$ 0.068  $\chi^2$ /NDF: 60043.6/11

+ sign -99.096 $\pm$ 0.045  $\chi^2$ /NDF: 2722866.4/29

All: -100.991 $\pm$ 0.032  $\chi^2$ /NDF: 5234071.5/59

- sign -102.871 $\pm$ 0.045  $\chi^2$ /NDF: 2507716.5/29

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 232.387+/-1.483  $\chi^2/\text{NDF}$ : 2631.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

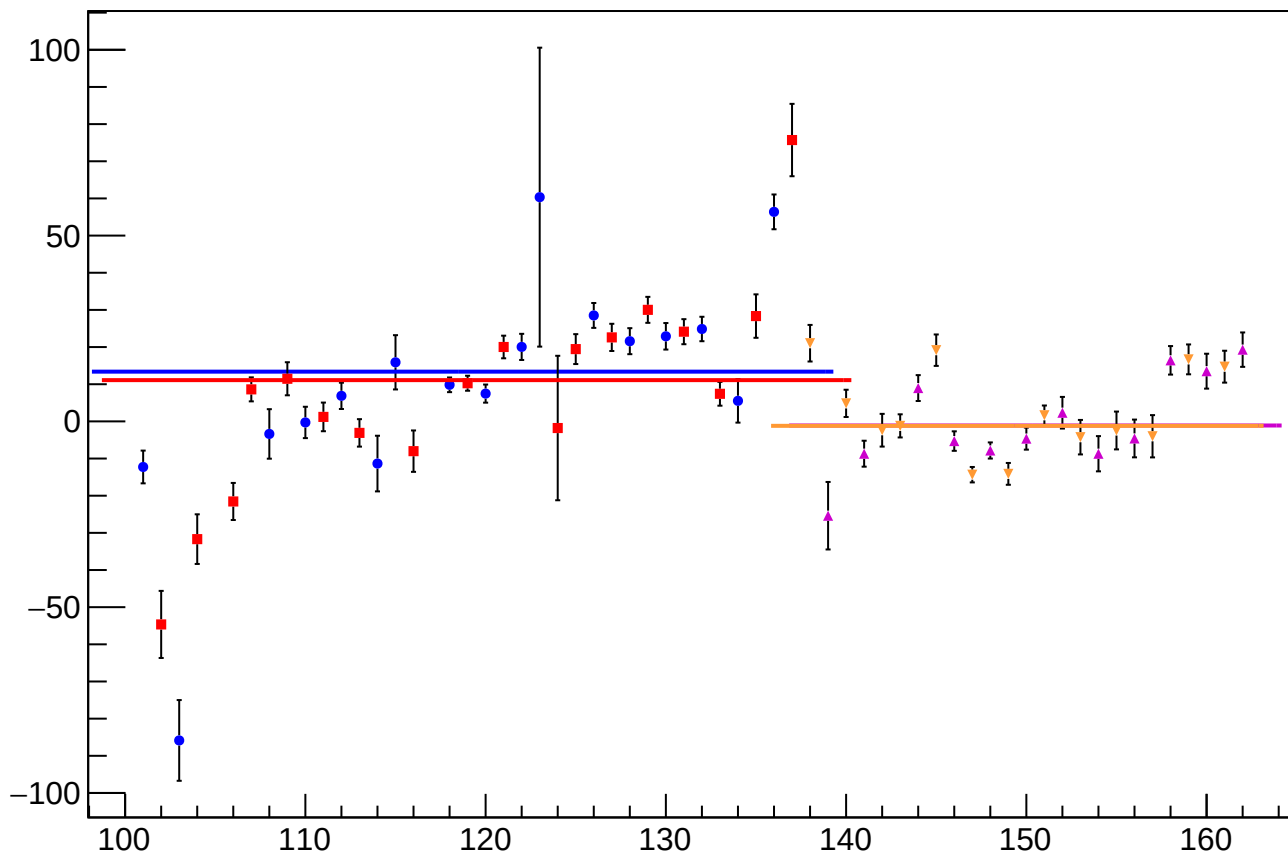
Left In: 258.986+/-1.531  $\chi^2/\text{NDF}$ : 119.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 245.260+/-1.065  $\chi^2/\text{NDF}$ : 2906.8/24

- 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:  $-1.198 \pm 0.976$   $\chi^2/\text{NDF}: 141.3/12$

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}: 292.2/17$

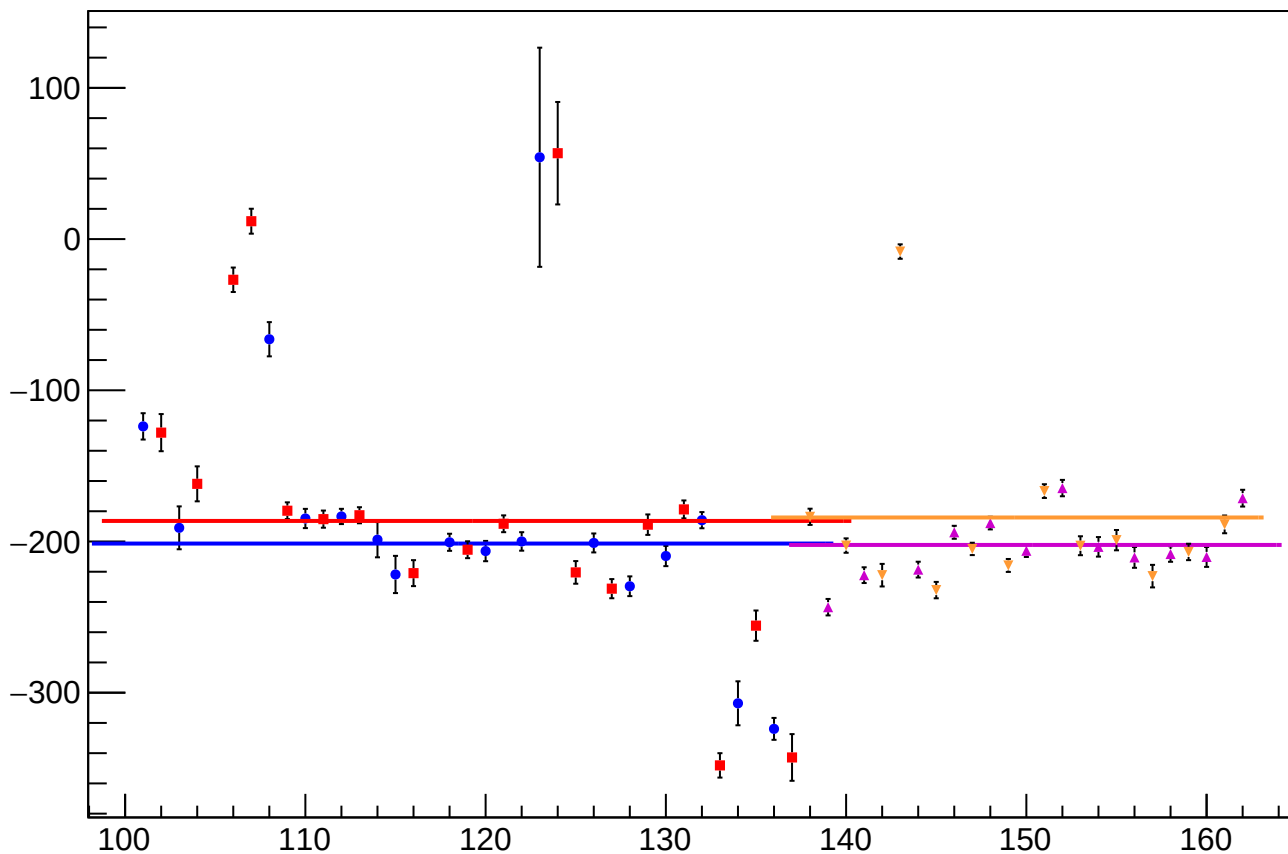
Left In:  $-1.107 \pm 1.028$   $\chi^2/\text{NDF}: 87.5/11$

+ sign  $6.512 \pm 0.670$   $\chi^2/\text{NDF}: 553.5/29$

All:  $6.116 \pm 0.478$   $\chi^2/\text{NDF}: 1012.6/59$

- sign  $5.703 \pm 0.684$   $\chi^2/\text{NDF}: 458.4/29$

# 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:  $-184.125 \pm 1.465$   $\chi^2/\text{NDF}$ : 1621.9/12

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

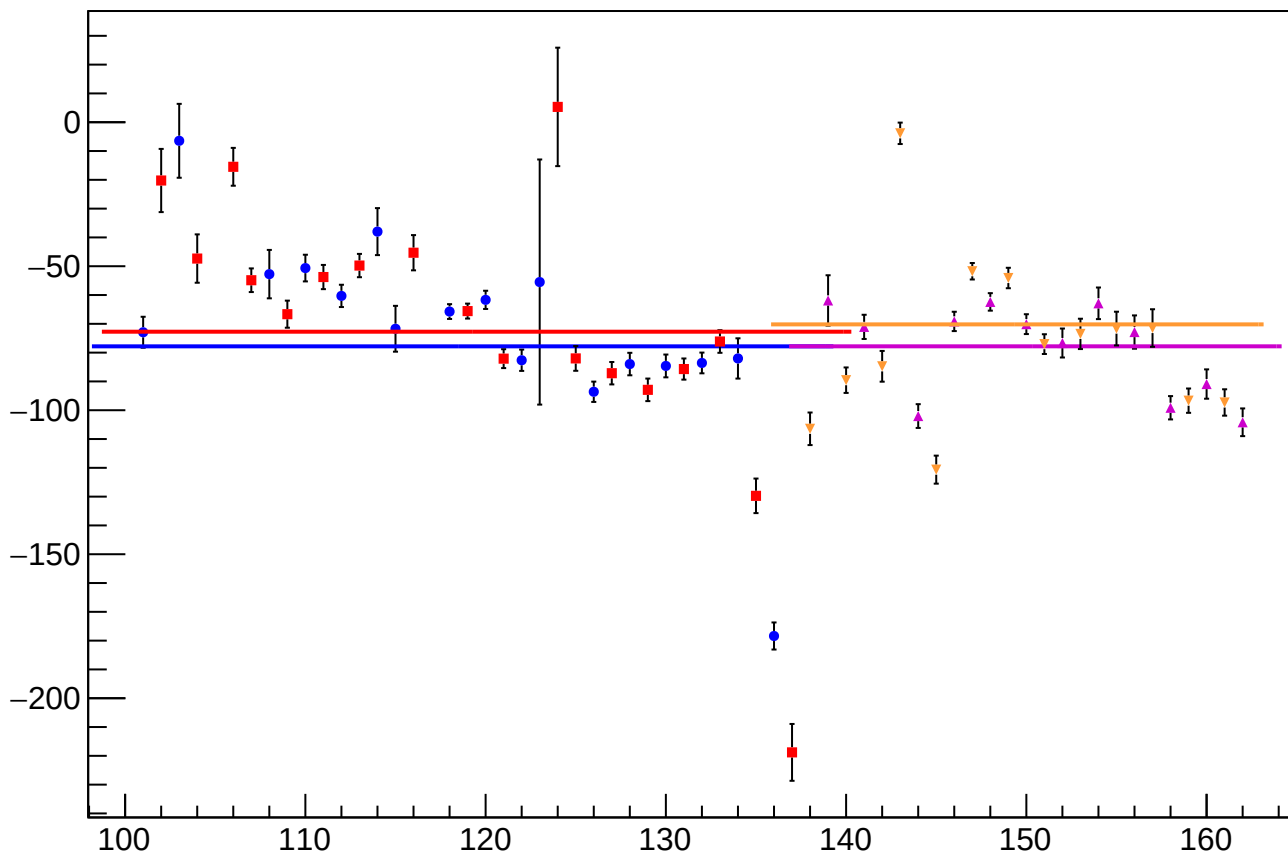
Left In:  $-202.282 \pm 1.491$   $\chi^2/\text{NDF}$ : 181.7/11

+ sign  $-191.074 \pm 1.132$   $\chi^2/\text{NDF}$ : 2302.6/29

All:  $-193.253 \pm 0.797$   $\chi^2/\text{NDF}$ : 4240.3/59

- sign  $-195.394 \pm 1.122$   $\chi^2/\text{NDF}$ : 1930.3/29

# 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:  $-70.191 \pm 1.186$   $\chi^2/\text{NDF}$ : 634.4/12

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}$ : 599.0/17

Left In:  $-77.810 \pm 1.235$   $\chi^2/\text{NDF}$ : 150.4/11

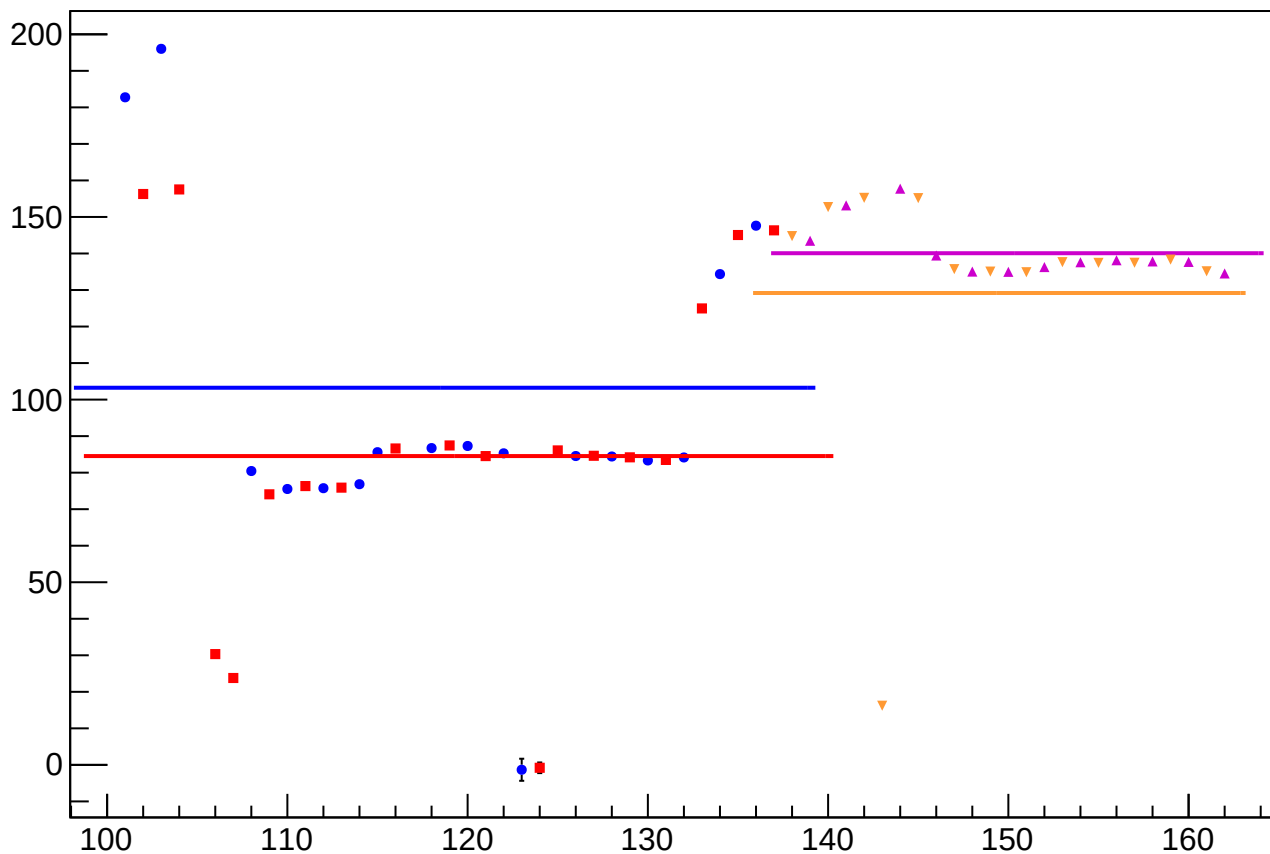
+ sign  $-74.402 \pm 0.794$   $\chi^2/\text{NDF}$ : 1313.6/29

All:  $-74.634 \pm 0.564$   $\chi^2/\text{NDF}$ : 2072.9/59

- sign  $-74.871 \pm 0.802$   $\chi^2/\text{NDF}$ : 759.1/29



# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 103.247 $\pm$ 0.070  $\chi^2$ /NDF: 273390.3/16

Left Out: 129.184 $\pm$ 0.059  $\chi^2$ /NDF: 395501.9/12

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

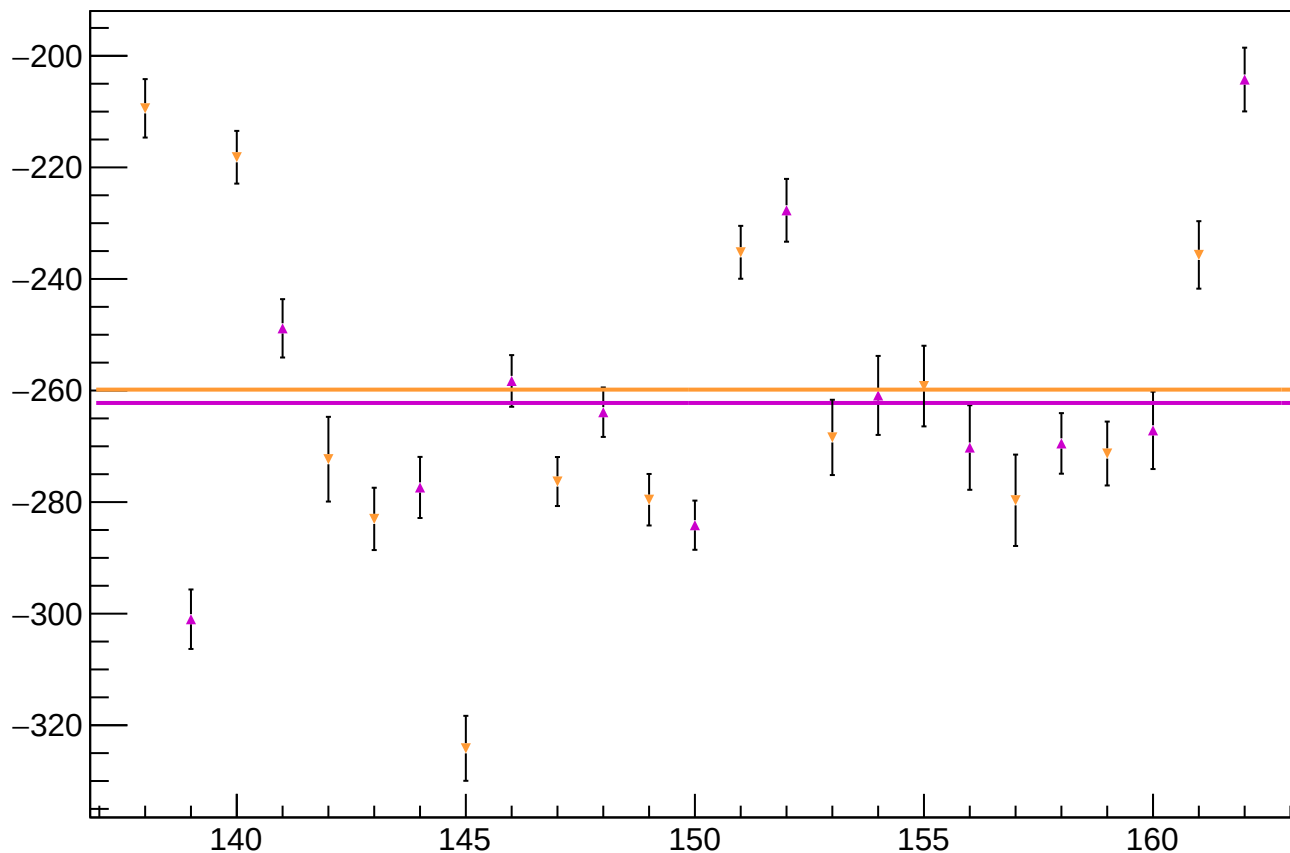
Left In: 140.074 $\pm$ 0.059  $\chi^2$ /NDF: 13198.0/11

+ sign 118.521 $\pm$ 0.045  $\chi^2$ /NDF: 748687.2/29

All: 116.391 $\pm$ 0.031  $\chi^2$ /NDF: 1583756.1/59

- sign 114.422 $\pm$ 0.043  $\chi^2$ /NDF: 830791.7/29

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -259.836+/-1.548  $\chi^2/\text{NDF}$ : 398.9/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

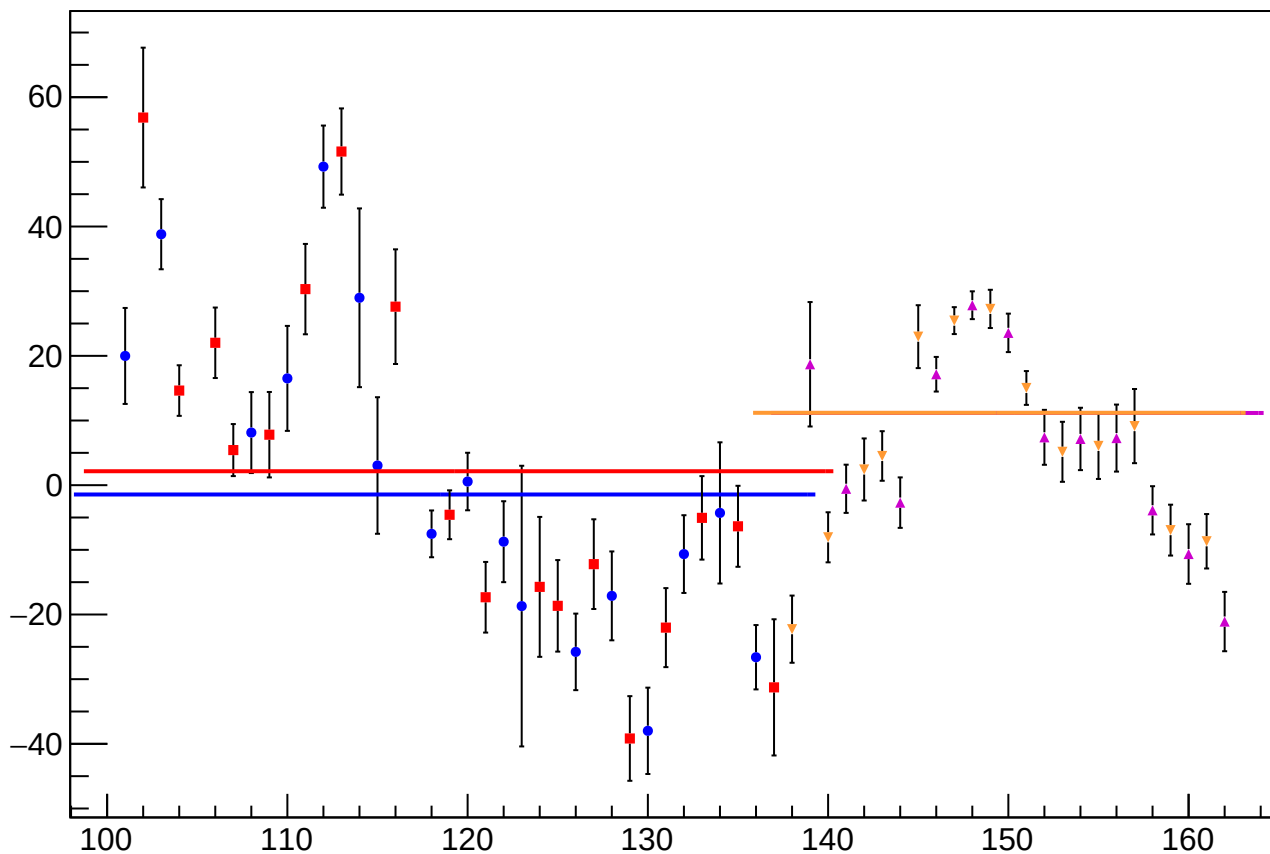
Left In: -262.229+/-1.565  $\chi^2/\text{NDF}$ : 236.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -261.020+/-1.101  $\chi^2/\text{NDF}$ : 636.7/24

- 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:  $11.191 \pm 1.007$   $\chi^2/\text{NDF}: 203.4/12$

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}: 230.2/17$

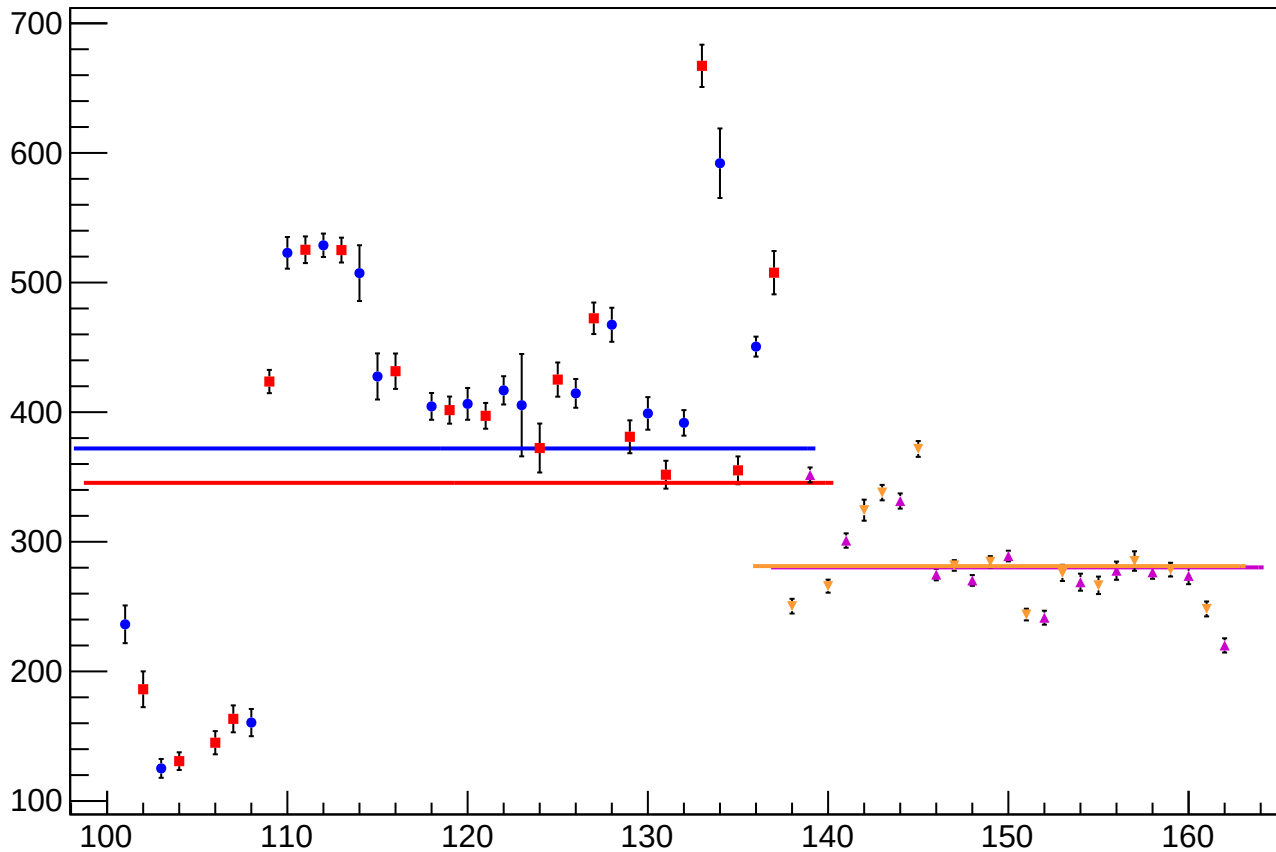
Left In:  $11.166 \pm 1.043$   $\chi^2/\text{NDF}: 195.7/11$

+ sign  $7.322 \pm 0.839$   $\chi^2/\text{NDF}: 476.0/29$

All:  $7.639 \pm 0.592$   $\chi^2/\text{NDF}: 928.8/59$

- sign  $7.954 \pm 0.837$   $\chi^2/\text{NDF}: 452.5/29$

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $371.997 \pm 2.765$   $\chi^2/\text{NDF}$ : 2431.2/16

Left Out:  $281.241 \pm 1.519$   $\chi^2/\text{NDF}$ : 484.8/12

Right Out:  $345.473 \pm 2.564$   $\chi^2/\text{NDF}$ : 3401.6/17

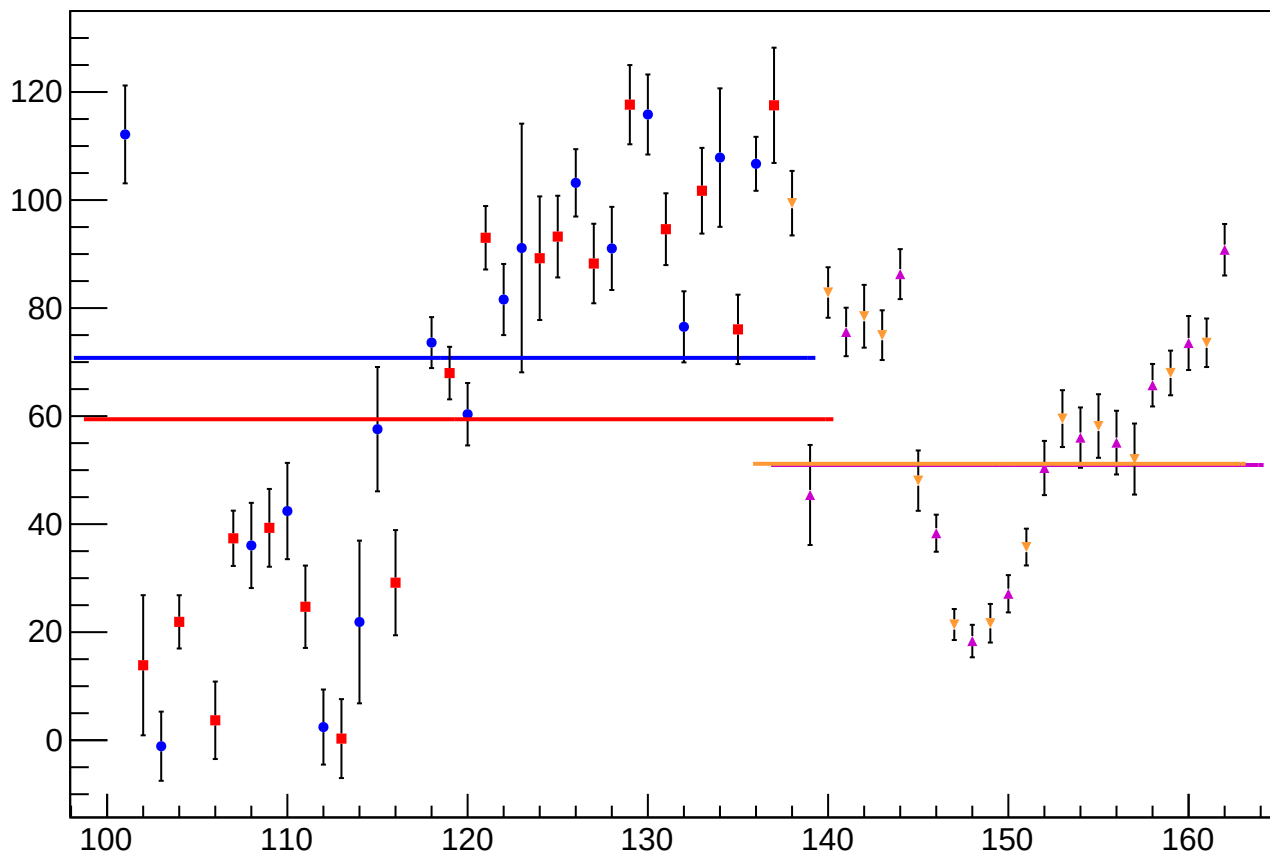
Left In:  $280.245 \pm 1.518$   $\chi^2/\text{NDF}$ : 431.2/11

+ sign  $302.285 \pm 1.331$   $\chi^2/\text{NDF}$ : 3743.7/29

All:  $299.680 \pm 0.932$   $\chi^2/\text{NDF}$ : 8063.2/59

- sign  $297.172 \pm 1.306$   $\chi^2/\text{NDF}$ : 4311.9/29

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.780 $\pm$ 1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 51.173 $\pm$ 1.227  $\chi^2$ /NDF:402.0/12

Right Out: 59.421 $\pm$ 1.632  $\chi^2$ /NDF: 486.6/17

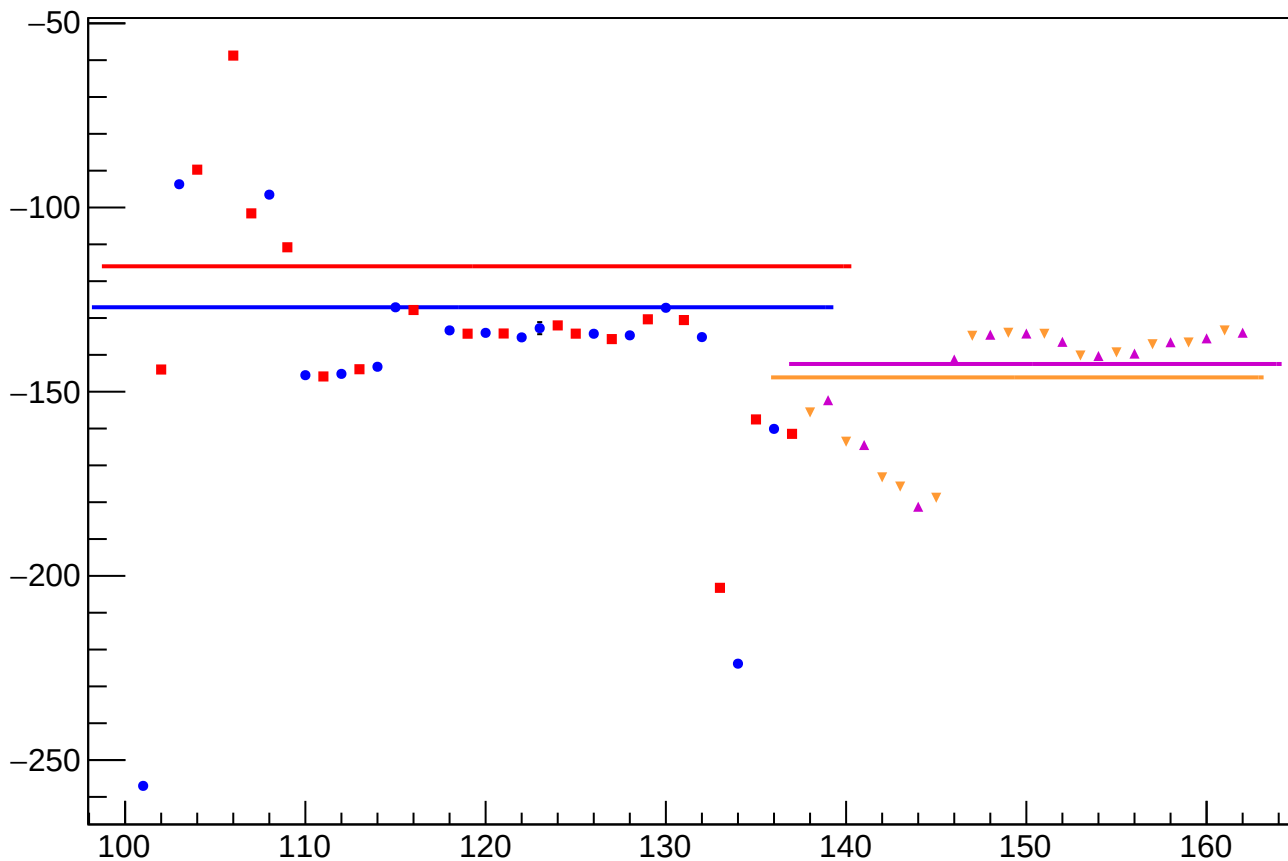
Left In: 50.948 $\pm$ 1.253  $\chi^2$ /NDF:373.3/11

+ sign 57.649 $\pm$ 1.004  $\chi^2$ /NDF: 910.3/29

All: 55.853 $\pm$ 0.706  $\chi^2$ /NDF: 1793.4/59

- sign 54.091 $\pm$ 0.994  $\chi^2$ /NDF: 876.8/29

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -127.076+/-0.090  $\chi^2/\text{NDF}$ : 167028.9/16

Left Out: -146.116+/-0.061  $\chi^2/\text{NDF}$ : 68576.0/12

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

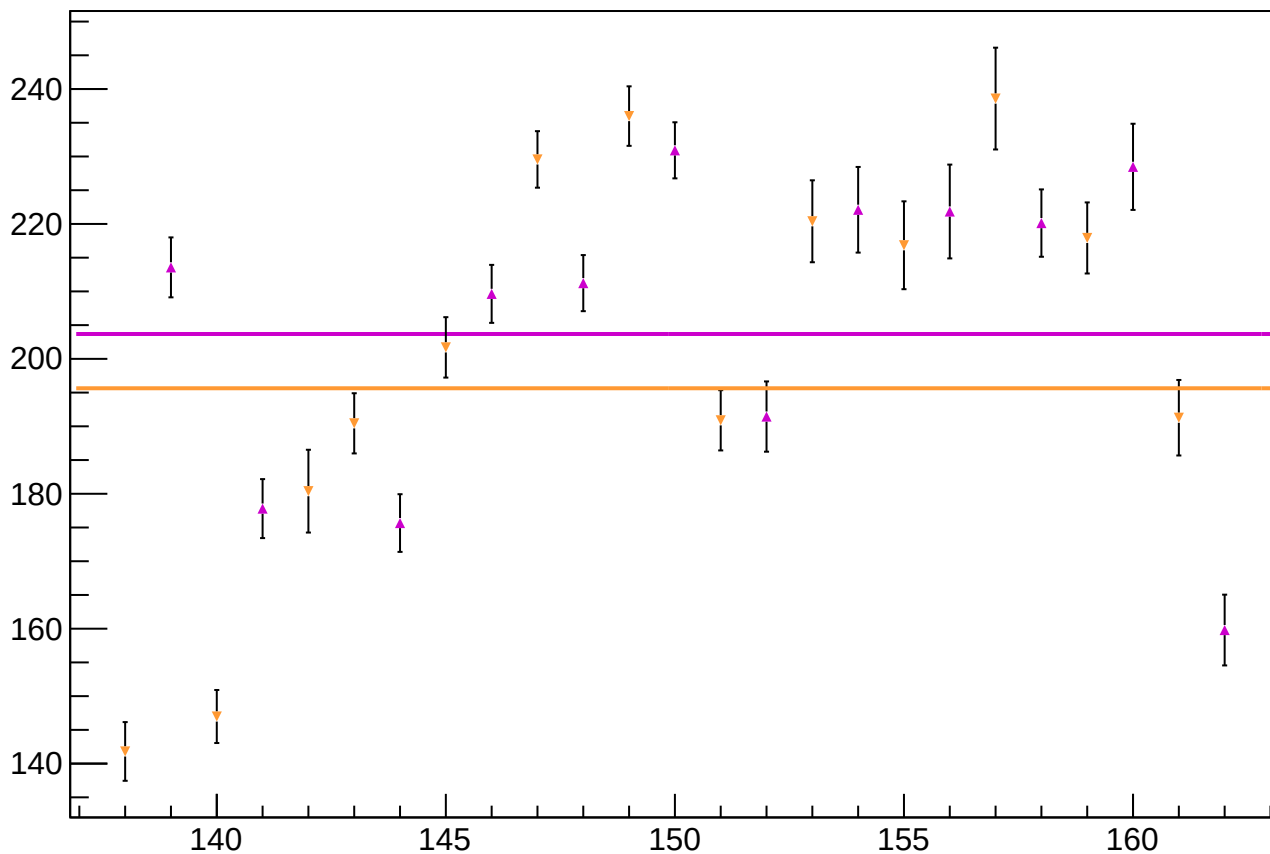
Left In: -142.476+/-0.060  $\chi^2/\text{NDF}$ : 43452.7/11

+ sign -140.074+/-0.050  $\chi^2/\text{NDF}$ : 266482.2/29

All: -136.590+/-0.035  $\chi^2/\text{NDF}$ : 545008.2/59

- sign -133.335+/-0.049  $\chi^2/\text{NDF}$ : 269293.6/29

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 195.640+/-1.362  $\chi^2/\text{NDF}$ : 544.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

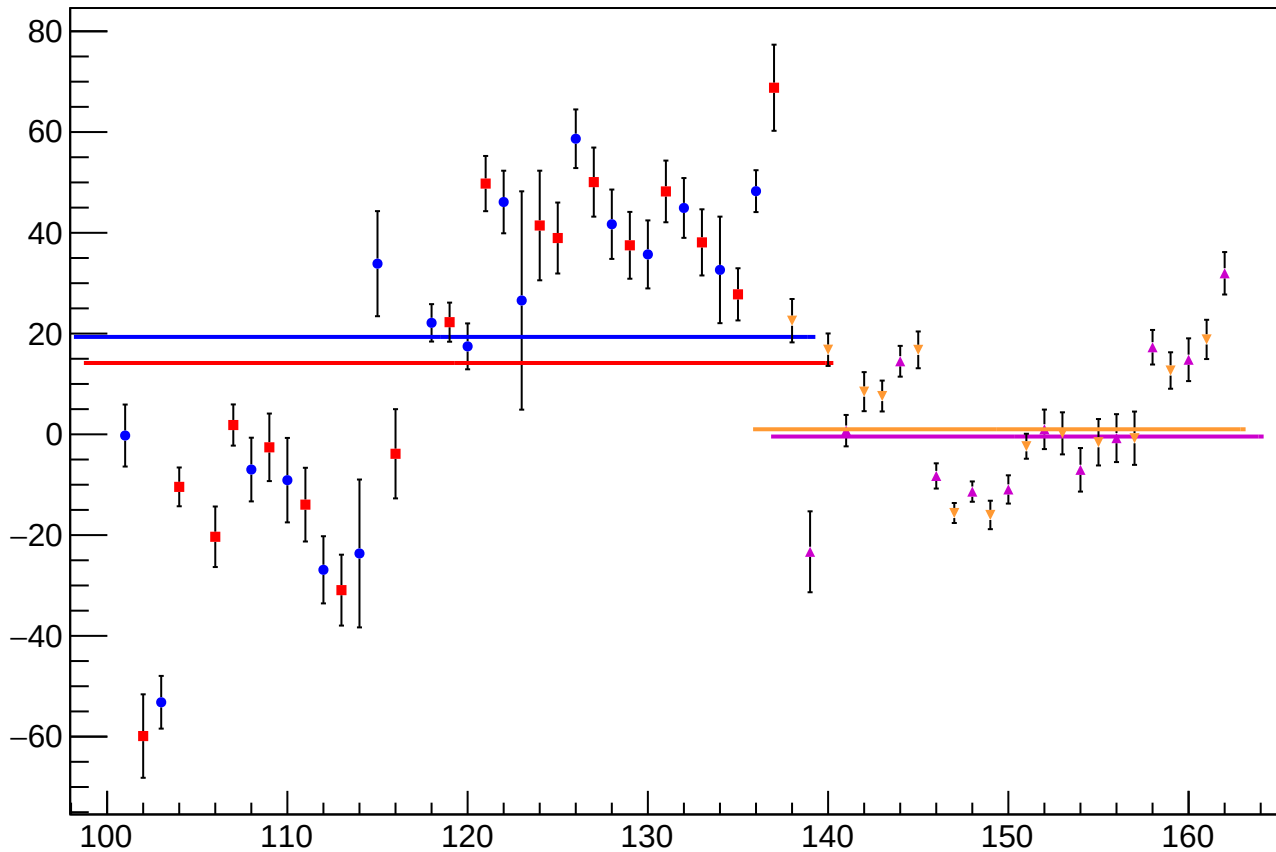
Left In: 203.686+/-1.399  $\chi^2/\text{NDF}$ : 247.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 199.555+/-0.976  $\chi^2/\text{NDF}$ : 808.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 19.337 $\pm$ 1.482  $\chi^2/\text{NDF}$ : 439.8/16

Left Out: 1.006 $\pm$ 0.904  $\chi^2/\text{NDF}$ : 216.1/12

Right Out: 14.162 $\pm$ 1.391  $\chi^2/\text{NDF}$ : 426.0/17

Left In: -0.436 $\pm$ 0.946  $\chi^2/\text{NDF}$ : 186.5/11

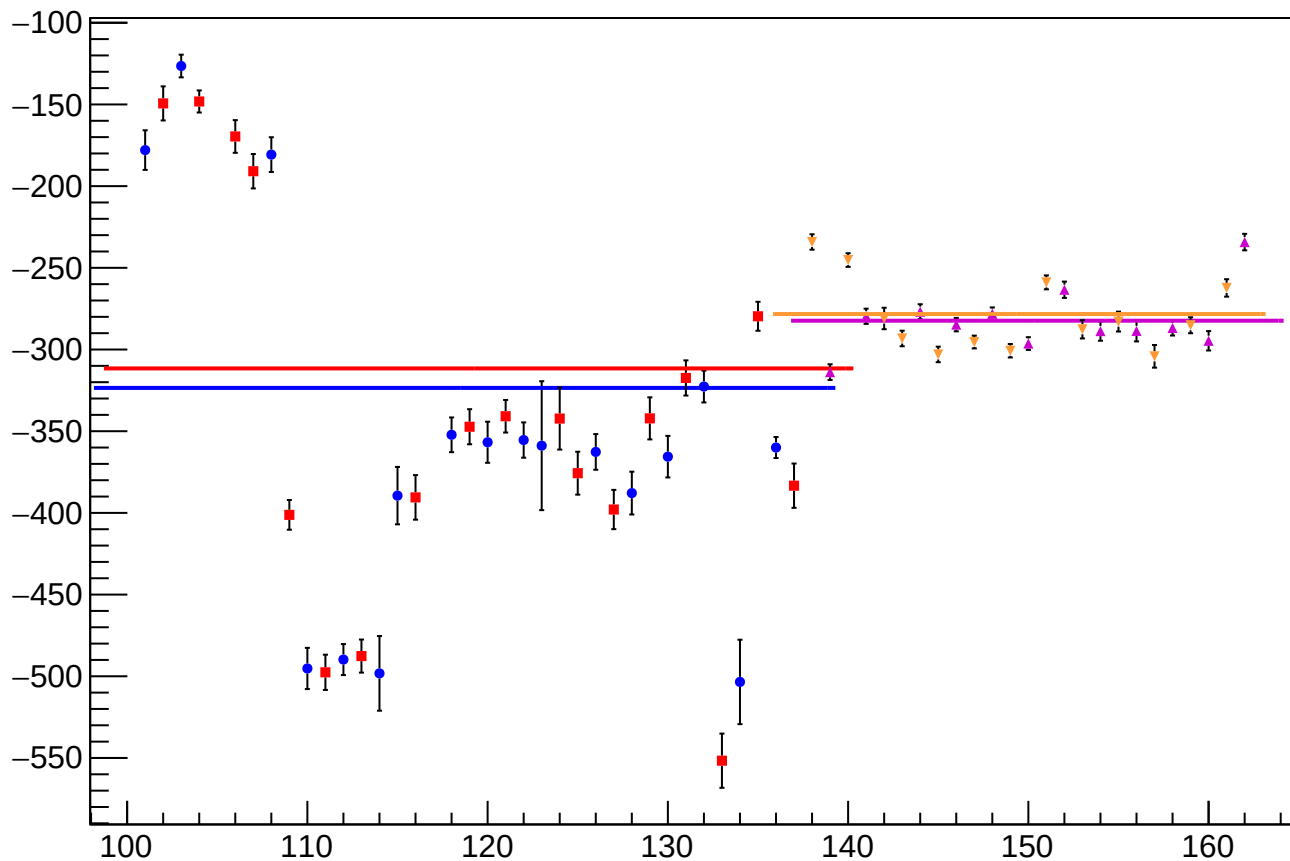
+ sign 5.978 $\pm$ 0.772  $\chi^2/\text{NDF}$ : 767.4/29

All: 5.090 $\pm$ 0.549  $\chi^2/\text{NDF}$ : 1457.9/59

- sign 4.179 $\pm$ 0.782  $\chi^2/\text{NDF}$ : 687.8/29



# 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:  $-278.289 \pm 1.349$   $\chi^2/\text{NDF}: 284.7/12$

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}: 2243.8/17$

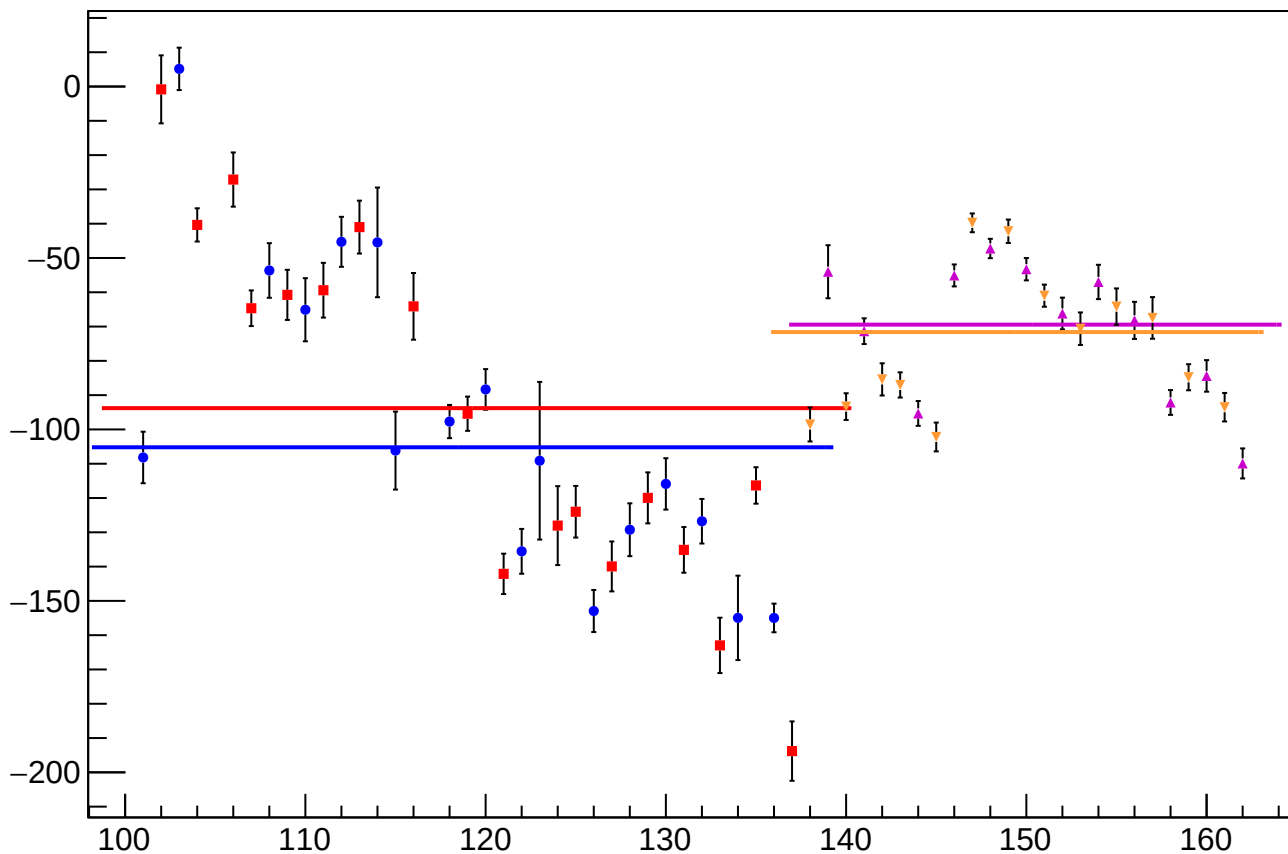
Left In:  $-282.367 \pm 1.366$   $\chi^2/\text{NDF}: 171.7/11$

+ sign  $-287.466 \pm 1.204$   $\chi^2/\text{NDF}: 2360.2/29$

All:  $-288.220 \pm 0.851$   $\chi^2/\text{NDF}: 4879.9/59$

- sign  $-288.969 \pm 1.201$   $\chi^2/\text{NDF}: 2518.9/29$

# 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:  $-71.601 \pm 1.096$   $\chi^2/\text{NDF}$ : 402.7/12

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

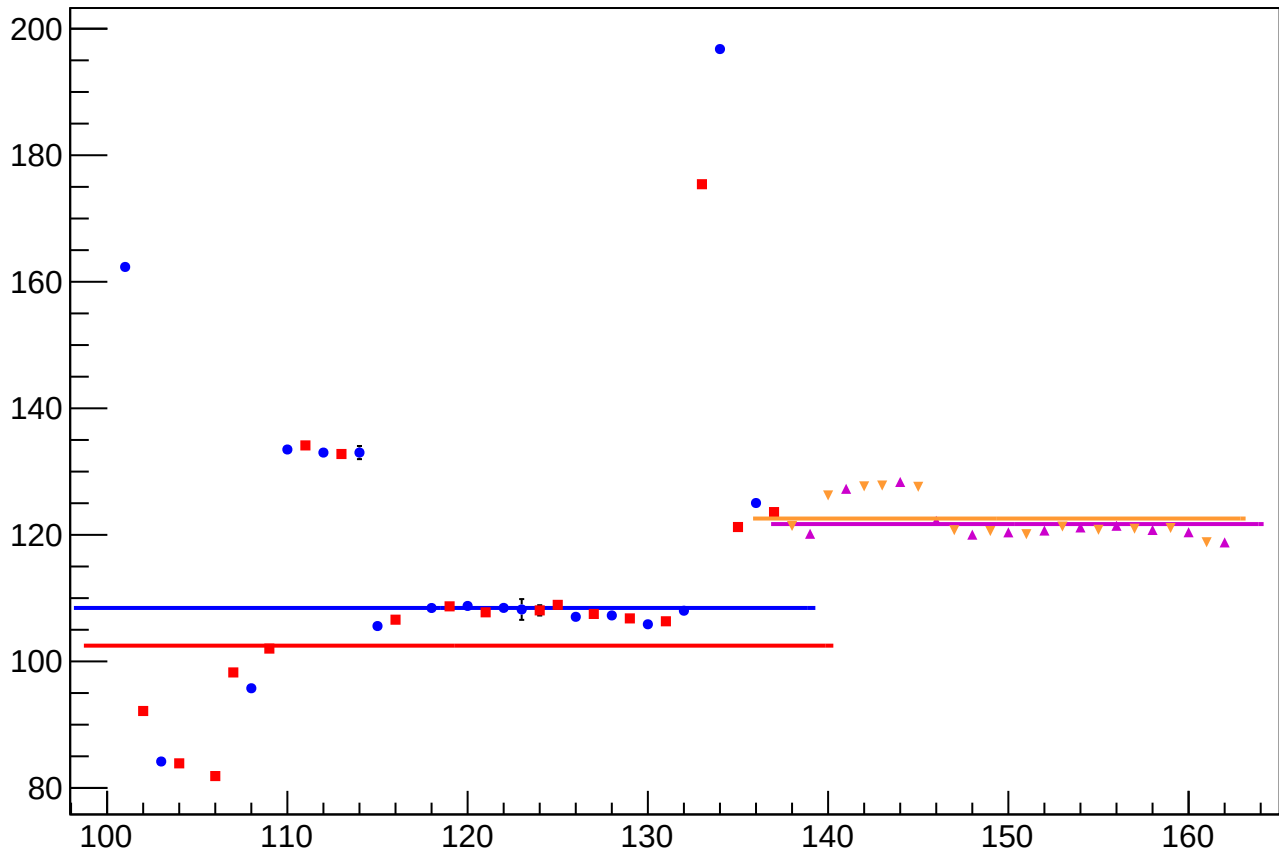
Left In:  $-69.440 \pm 1.134$   $\chi^2/\text{NDF}$ : 304.2/11

+ sign  $-81.494 \pm 0.921$   $\chi^2/\text{NDF}$ : 1415.0/29

All:  $-79.514 \pm 0.653$   $\chi^2/\text{NDF}$ : 2696.7/59

- sign  $-77.505 \pm 0.927$   $\chi^2/\text{NDF}$ : 1272.4/29

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.448 $\pm$ 0.085  $\chi^2$ /NDF: 73265.3/16

Left Out: 122.581 $\pm$ 0.054  $\chi^2$ /NDF: 3262.3/12

Right Out: 102.490 $\pm$ 0.080  $\chi^2$ /NDF: 52909.2/17

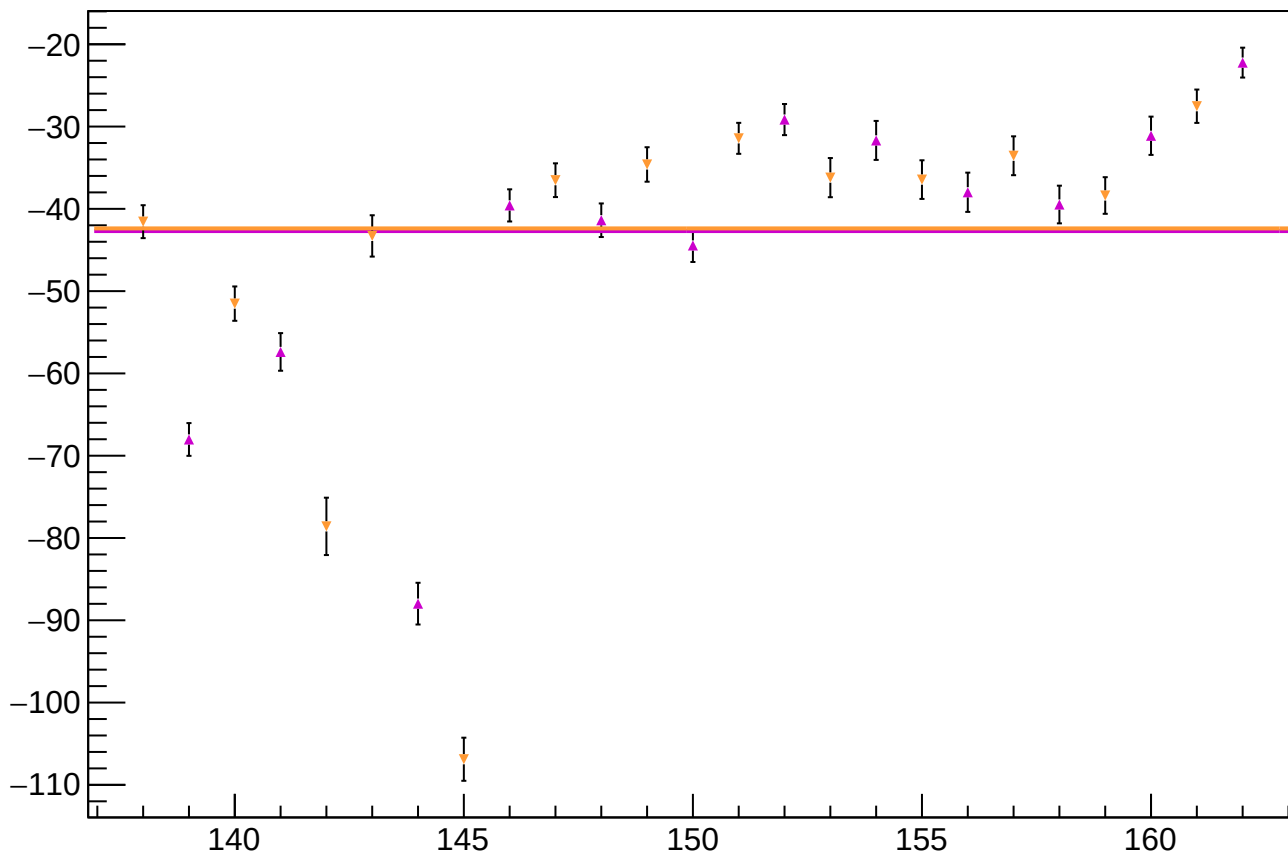
Left In: 121.706 $\pm$ 0.054  $\chi^2$ /NDF: 2552.8/11

+ sign 118.495 $\pm$ 0.046  $\chi^2$ /NDF: 96276.4/29

All: 117.037 $\pm$ 0.032  $\chi^2$ /NDF: 193602.6/59

- sign 115.633 $\pm$ 0.045  $\chi^2$ /NDF: 95319.2/29

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -42.377+/-0.621  $\chi^2/\text{NDF}$ : 873.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

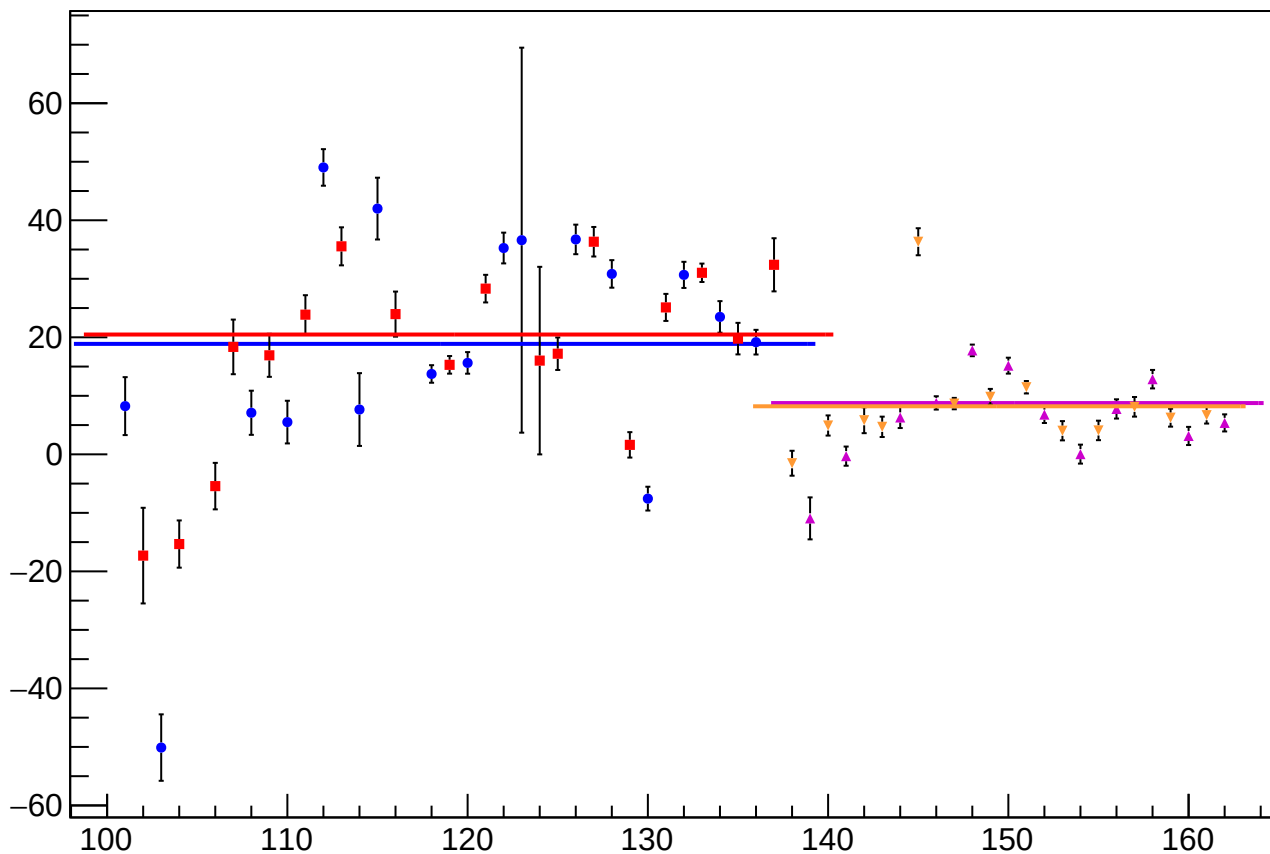
Left In: -42.700+/-0.613  $\chi^2/\text{NDF}$ : 756.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.540+/-0.436  $\chi^2/\text{NDF}$ : 1630.5/24

- 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:  $8.211 \pm 0.417$   $\chi^2/\text{NDF}$ : 204.2/12

Right Out:  $20.474 \pm 0.644$   $\chi^2/\text{NDF}$ : 362.4/17

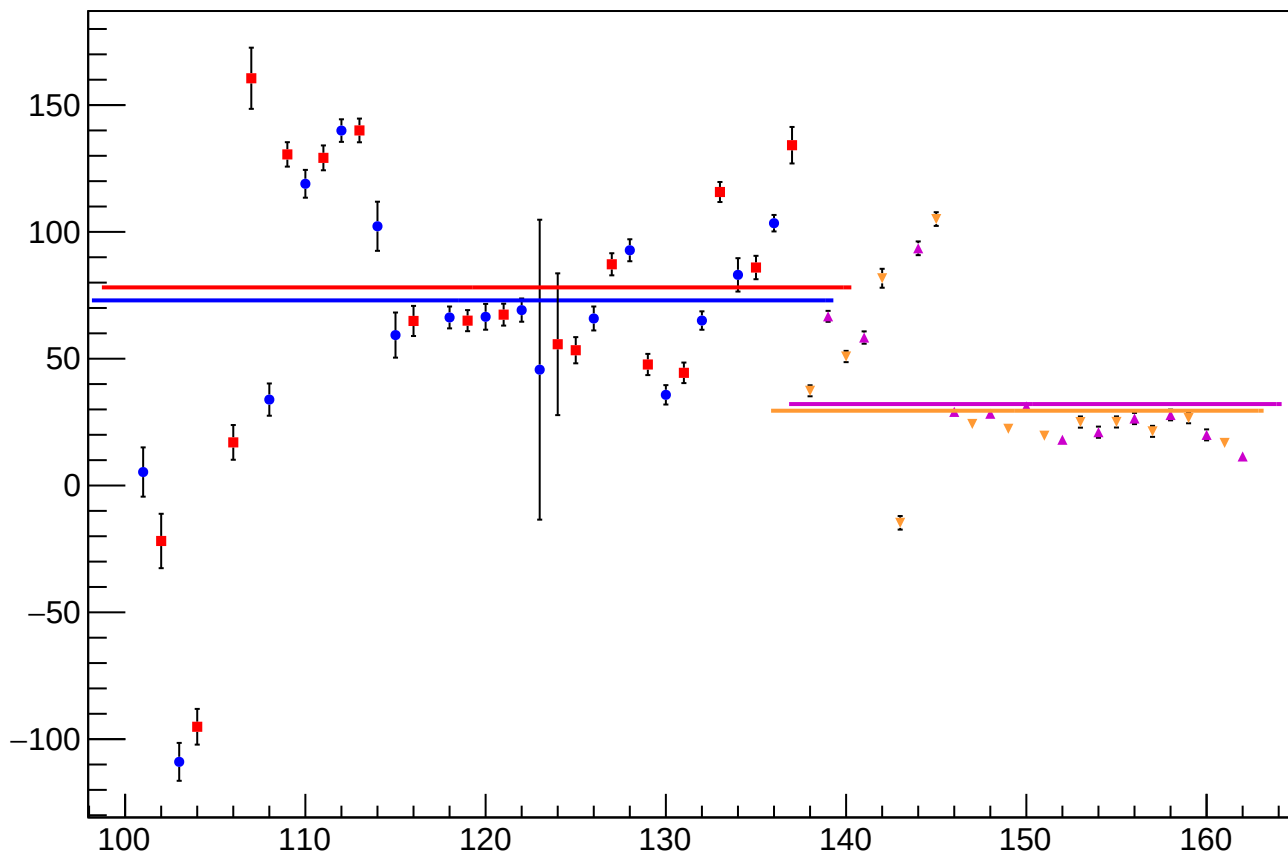
Left In:  $8.763 \pm 0.422$   $\chi^2/\text{NDF}$ : 223.5/11

+ sign  $11.353 \pm 0.350$   $\chi^2/\text{NDF}$ : 1017.9/29

All:  $11.817 \pm 0.249$   $\chi^2/\text{NDF}$ : 1838.8/59

- sign  $12.289 \pm 0.353$   $\chi^2/\text{NDF}$ : 817.3/29

# 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:  $29.493 \pm 0.605$   $\chi^2/\text{NDF}$ : 1472.3/12

Right Out:  $78.119 \pm 1.224$   $\chi^2/\text{NDF}$ : 1546.8/17

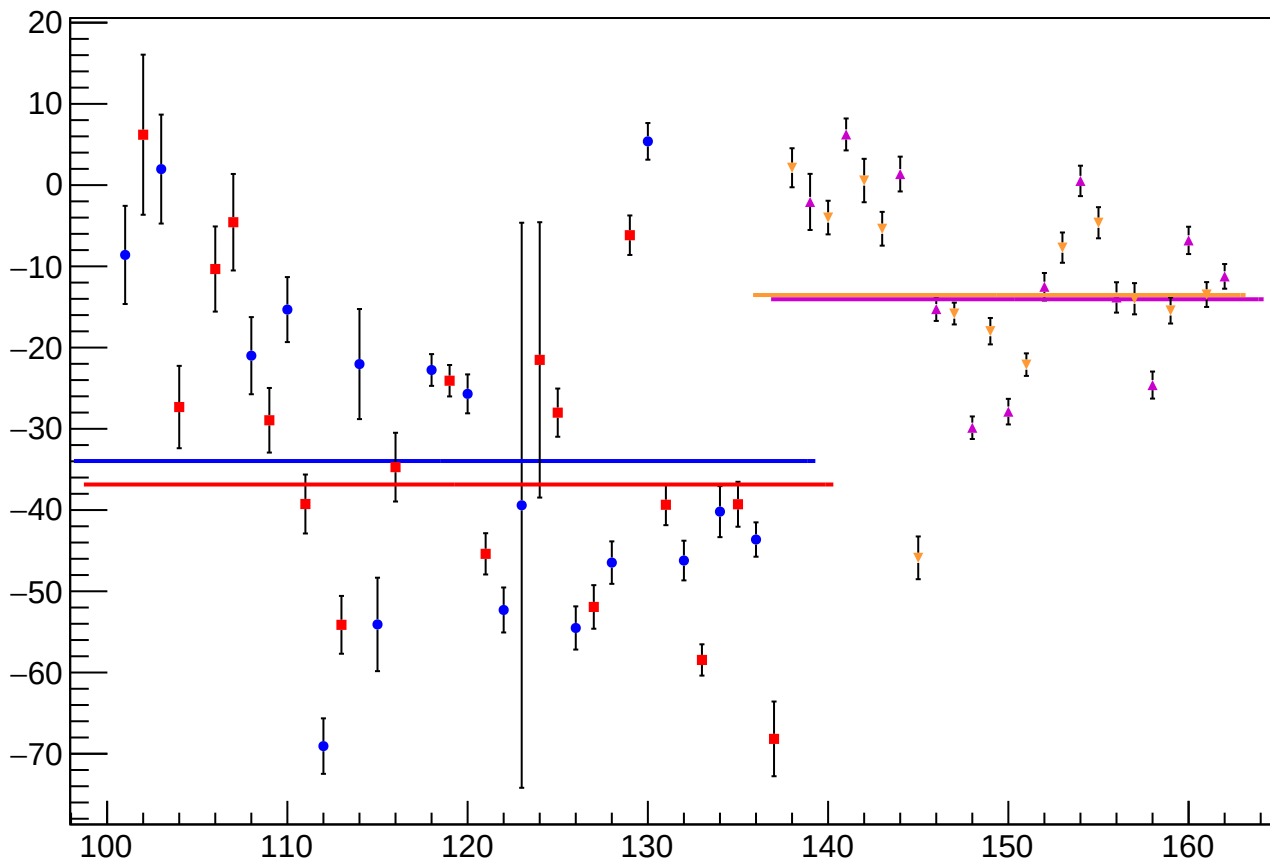
Left In:  $32.117 \pm 0.593$   $\chi^2/\text{NDF}$ : 1161.7/11

+ sign  $37.974 \pm 0.543$   $\chi^2/\text{NDF}$ : 3684.6/29

All:  $39.444 \pm 0.381$   $\chi^2/\text{NDF}$ : 7551.7/59

- sign  $40.864 \pm 0.534$   $\chi^2/\text{NDF}$ : 3852.7/29

# 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:  $-13.530 \pm 0.499$   $\chi^2/\text{NDF}$ : 339.6/12

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}$ : 535.3/17

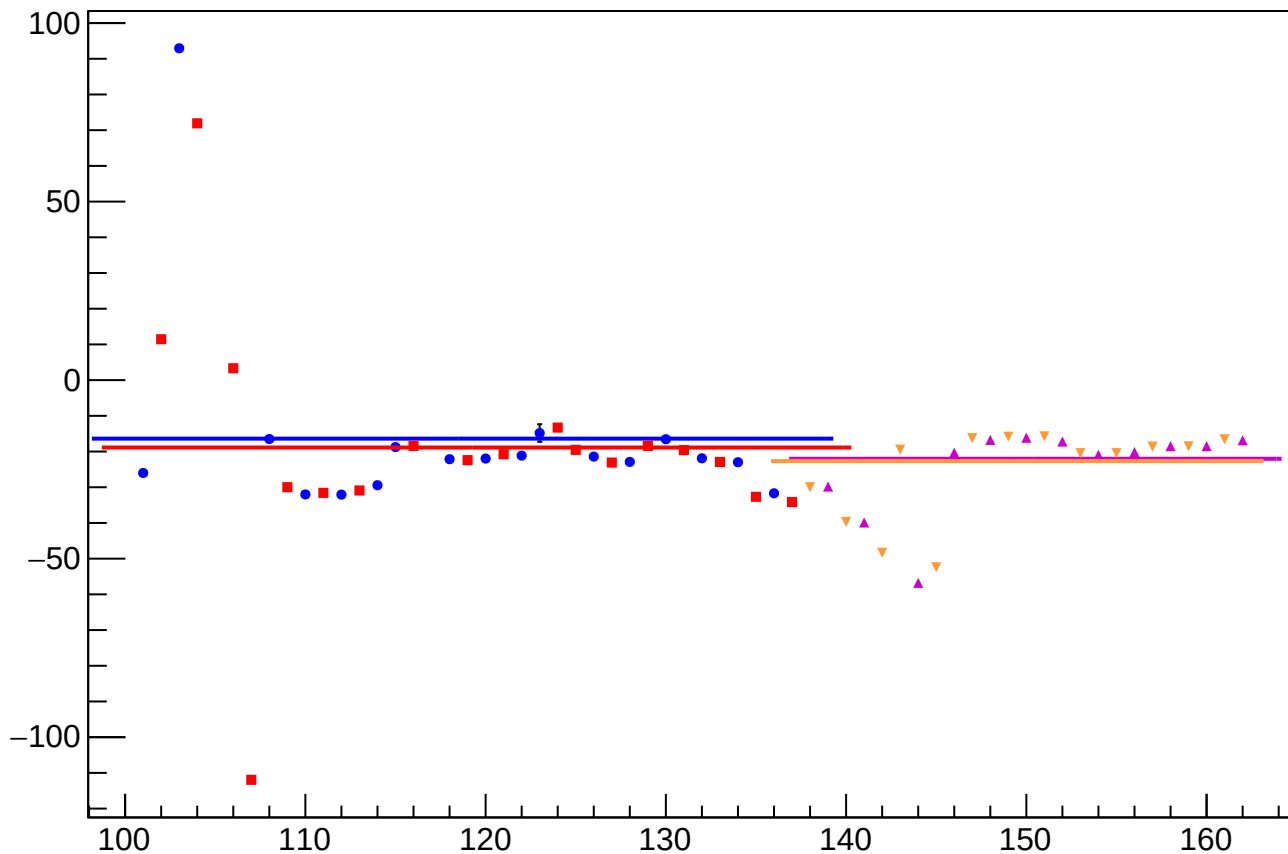
Left In:  $-14.051 \pm 0.499$   $\chi^2/\text{NDF}$ : 501.6/11

+ sign  $-19.940 \pm 0.413$   $\chi^2/\text{NDF}$ : 1588.3/29

All:  $-20.578 \pm 0.292$   $\chi^2/\text{NDF}$ : 3286.7/59

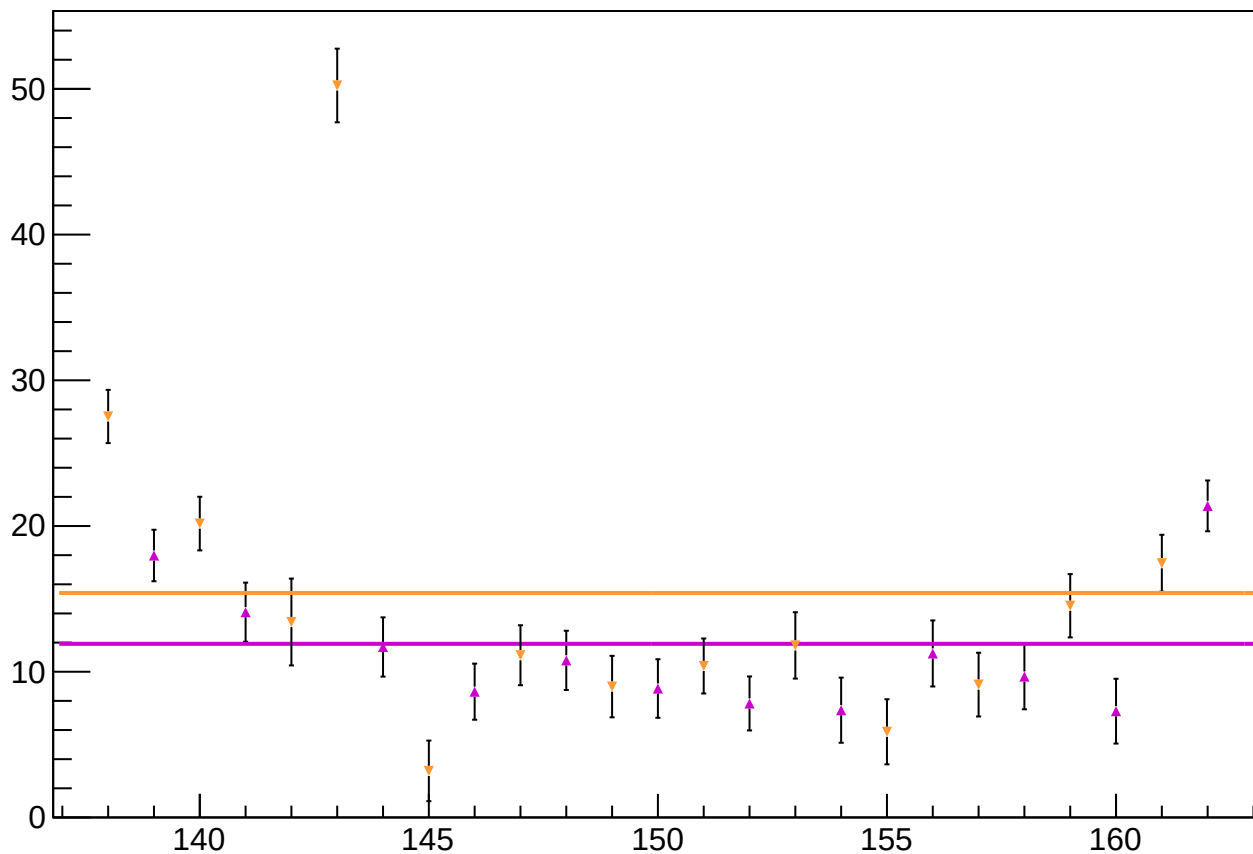
- sign  $-21.215 \pm 0.413$   $\chi^2/\text{NDF}$ : 1693.7/29

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug





# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.408+/-0.586  $\chi^2/\text{NDF}$ : 326.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

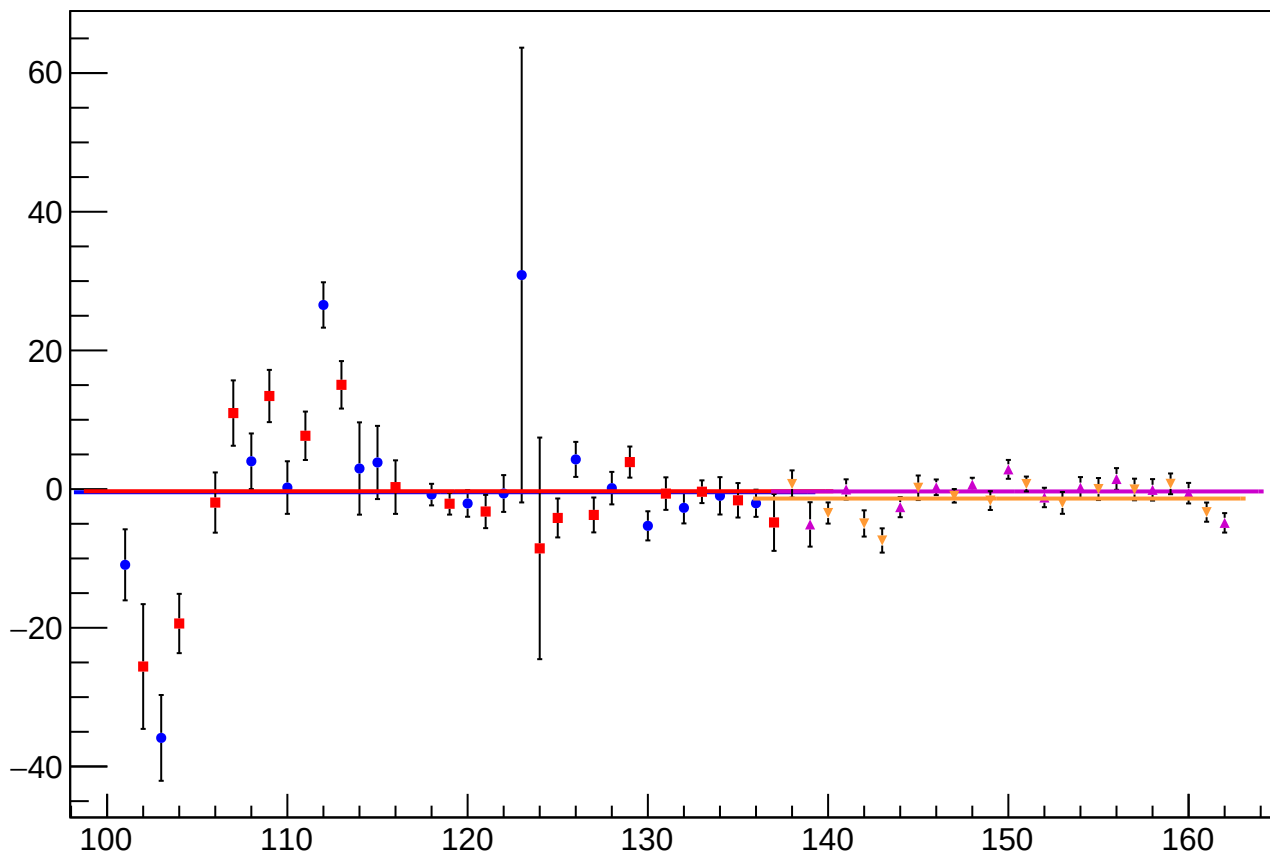
Left In: 11.916+/-0.579  $\chi^2/\text{NDF}$ : 62.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.642+/-0.412  $\chi^2/\text{NDF}$ : 406.7/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.452 \pm 0.654$   $\chi^2/\text{NDF}$ : 119.5/16

Left Out:  $-1.361 \pm 0.400$   $\chi^2/\text{NDF}$ : 29.0/12

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

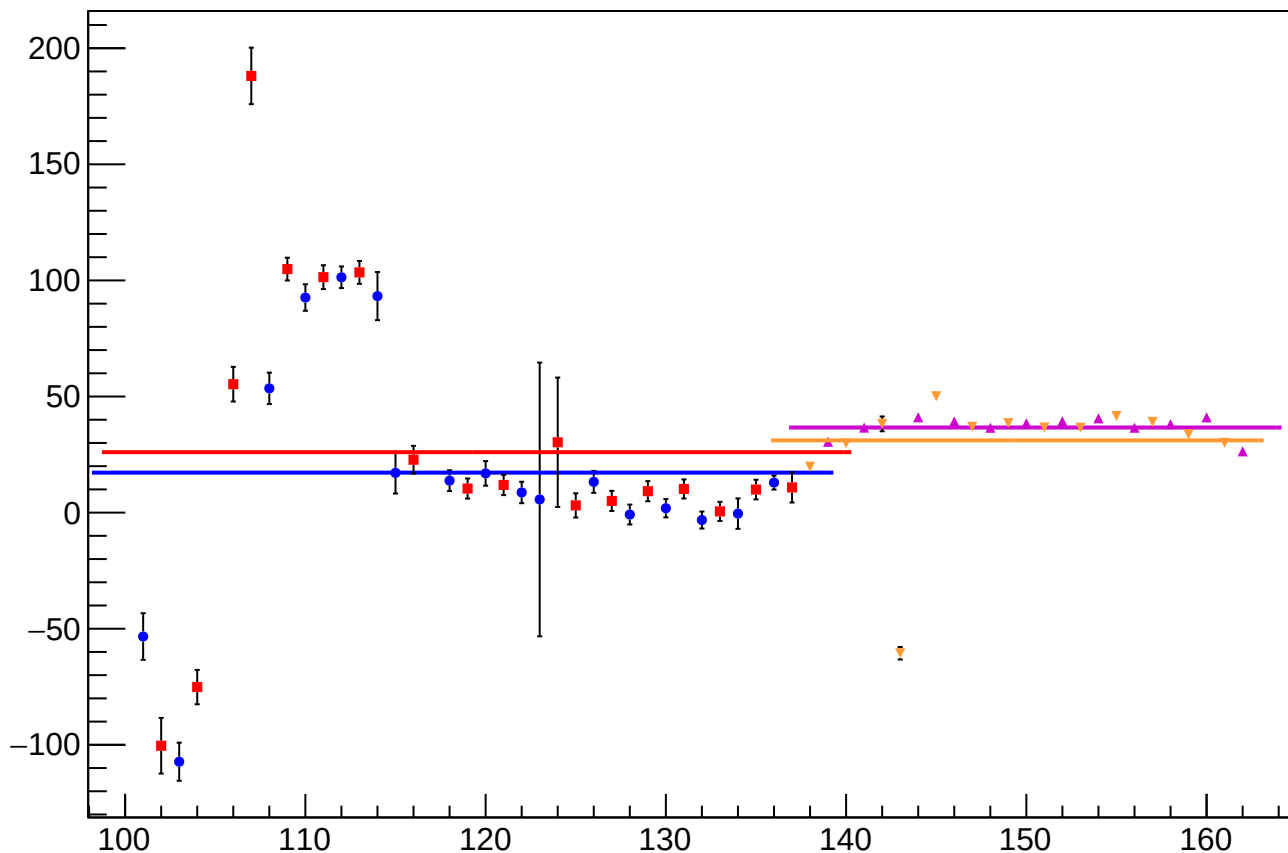
Left In:  $-0.336 \pm 0.405$   $\chi^2/\text{NDF}$ : 23.7/11

+ sign  $-1.114 \pm 0.341$   $\chi^2/\text{NDF}$ : 149.9/29

All:  $-0.725 \pm 0.242$   $\chi^2/\text{NDF}$ : 260.4/59

- sign  $-0.328 \pm 0.345$   $\chi^2/\text{NDF}$ : 107.8/29

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.218+/-1.241  $\chi^2/\text{NDF}$ : 940.1/16

Left Out: 31.109+/-0.575  $\chi^2/\text{NDF}$ :1352.4/12

Right Out: 26.032+/-1.244  $\chi^2/\text{NDF}$ : 1366.0/17

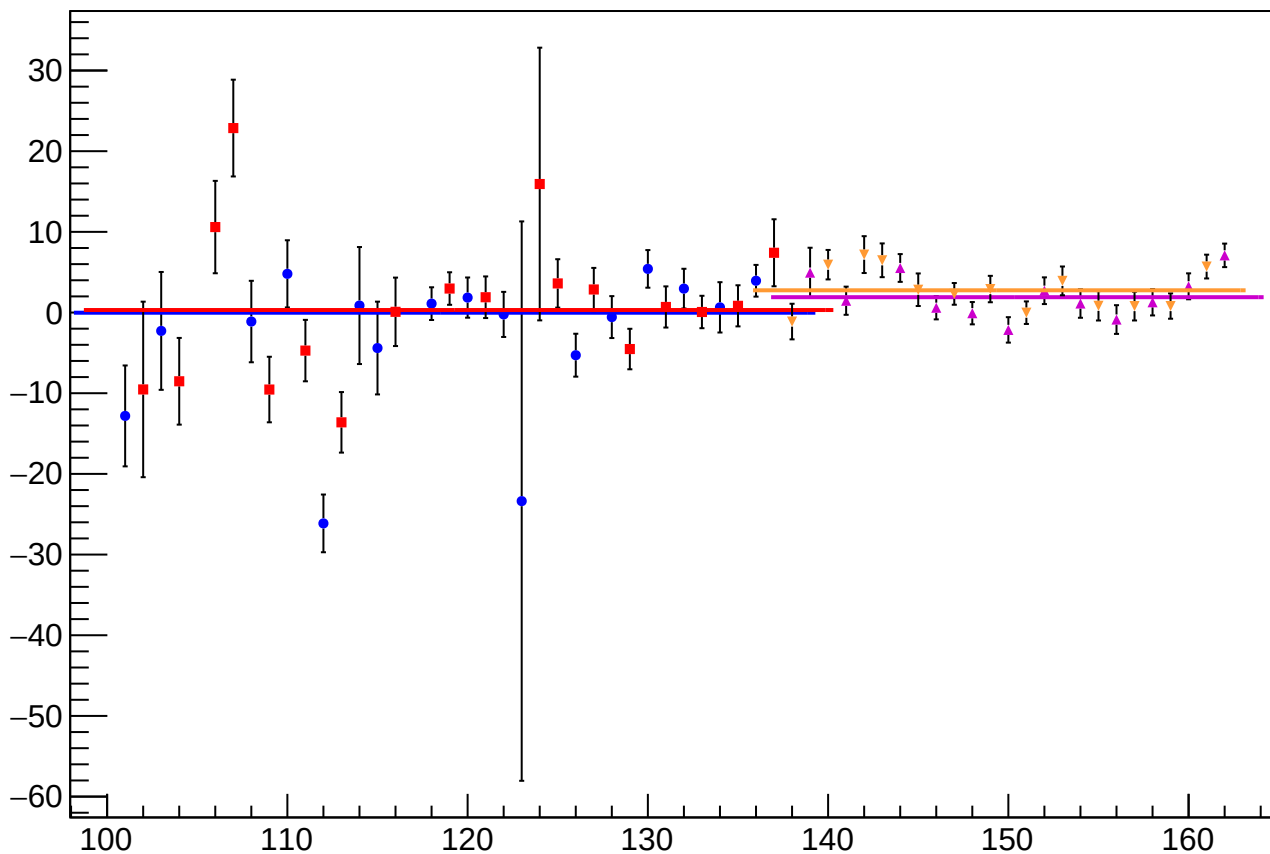
Left In: 36.653+/-0.563  $\chi^2/\text{NDF}$ :65.8/11

+ sign 28.657+/-0.521  $\chi^2/\text{NDF}$ : 2395.7/29

All: 31.800+/-0.366  $\chi^2/\text{NDF}$ : 3959.5/59

- sign 34.845+/-0.513  $\chi^2/\text{NDF}$ : 1492.2/29

# 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:  $2.757 \pm 0.477$   $\chi^2/\text{NDF}$ : 25.3/12

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

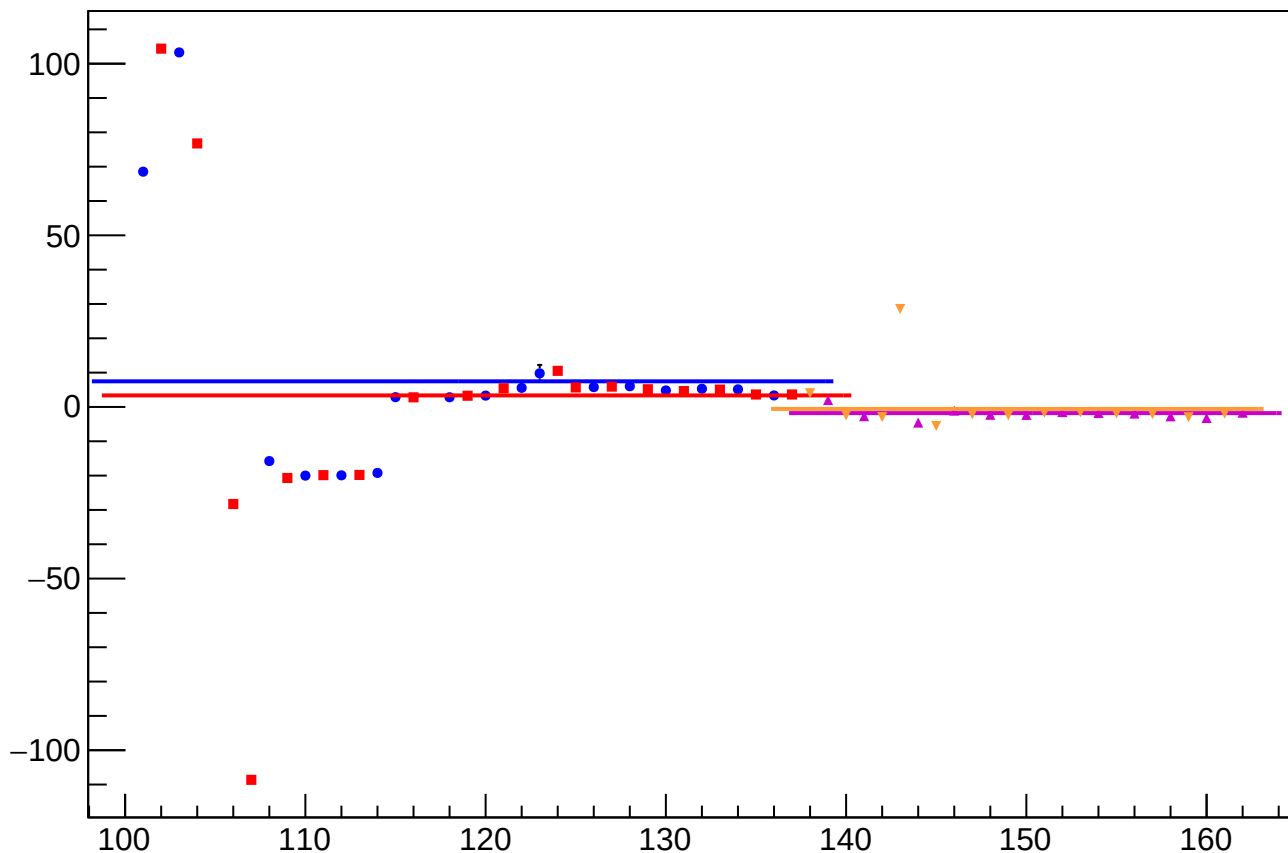
Left In:  $1.903 \pm 0.476$   $\chi^2/\text{NDF}$ : 31.3/11

+ sign  $1.950 \pm 0.401$   $\chi^2/\text{NDF}$ : 111.1/29

All:  $1.697 \pm 0.284$   $\chi^2/\text{NDF}$ : 200.4/59

- sign  $1.445 \pm 0.402$   $\chi^2/\text{NDF}$ : 88.6/29

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 7.467 $\pm$ 0.044  $\chi^2$ /NDF: 355890.1/16

Left Out: -0.567 $\pm$ 0.022  $\chi^2$ /NDF: 83524.2/12

Right Out: 3.362 $\pm$ 0.046  $\chi^2$ /NDF: 504811.4/17

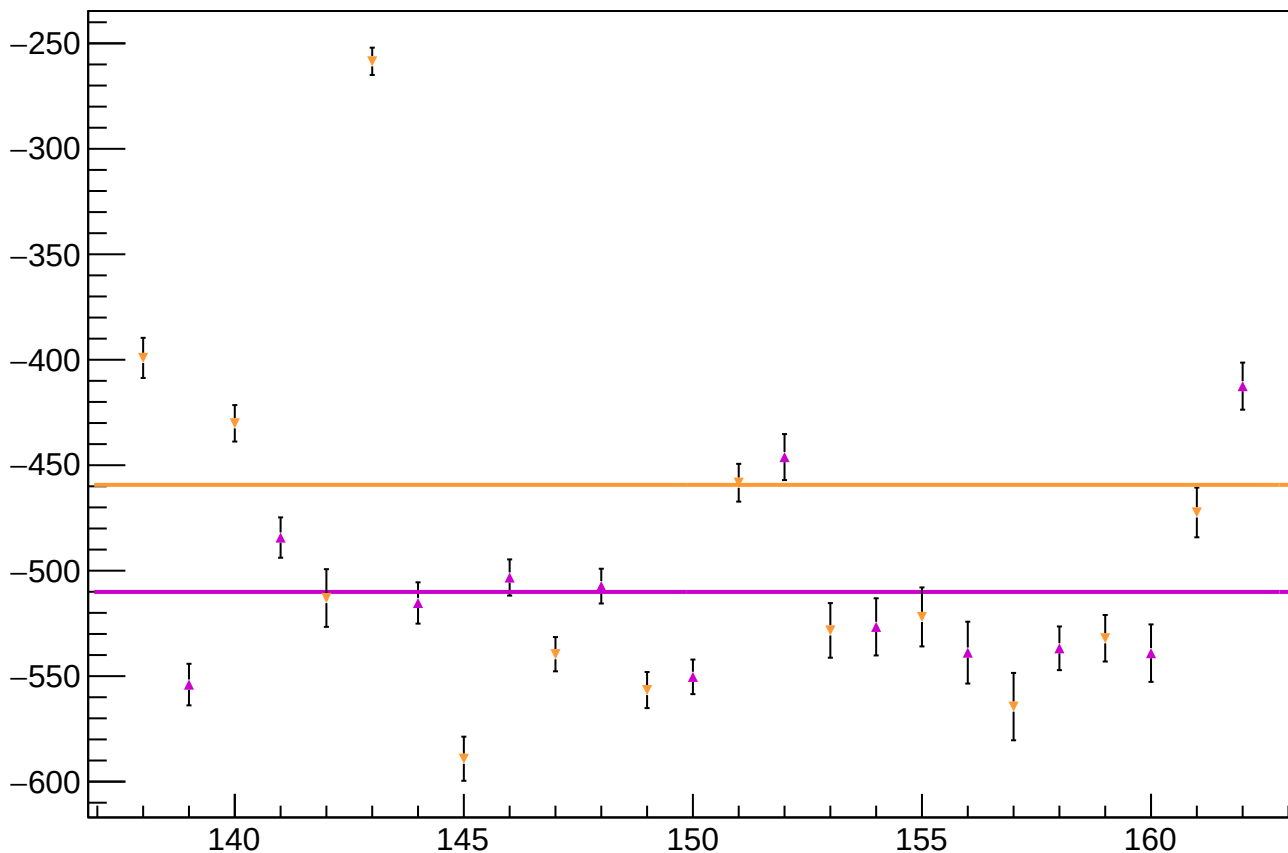
Left In: -1.791 $\pm$ 0.022  $\chi^2$ /NDF: 4805.1/11

+ sign 1.056 $\pm$ 0.020  $\chi^2$ /NDF: 465457.5/29

All: 0.104 $\pm$ 0.014  $\chi^2$ /NDF: 989938.8/59

- sign -0.825 $\pm$ 0.020  $\chi^2$ /NDF: 519994.9/29

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-459.314 \pm 2.727$   $\chi^2/\text{NDF}$ : 1545.4/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

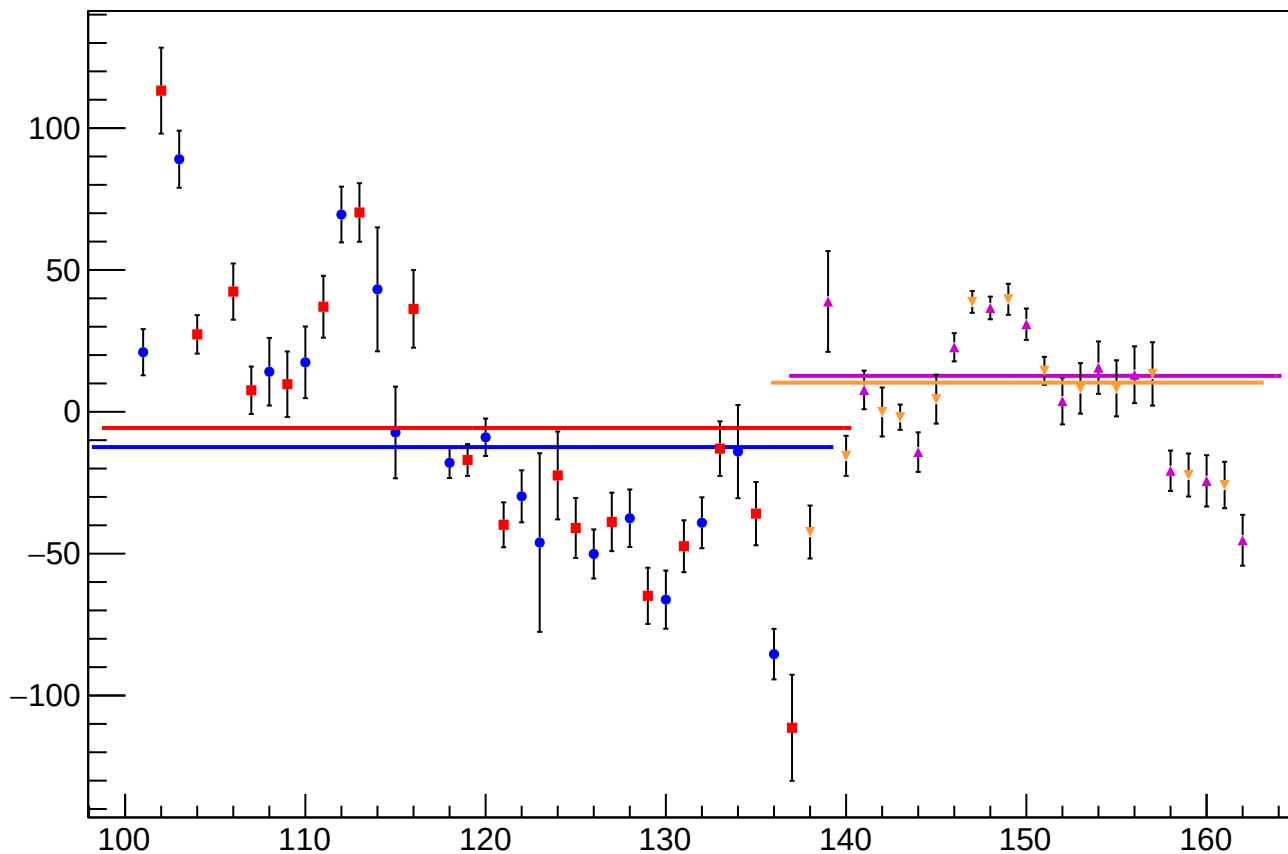
Left In:  $-510.777 \pm 2.934$   $\chi^2/\text{NDF}$ : 179.7/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-482.838 \pm 1.998$   $\chi^2/\text{NDF}$ : 1885.6/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 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:  $10.280 \pm 1.785$   $\chi^2/\text{NDF}$ : 176.8/12

Right Out:  $-5.686 \pm 2.263$   $\chi^2/\text{NDF}$ : 333.7/17

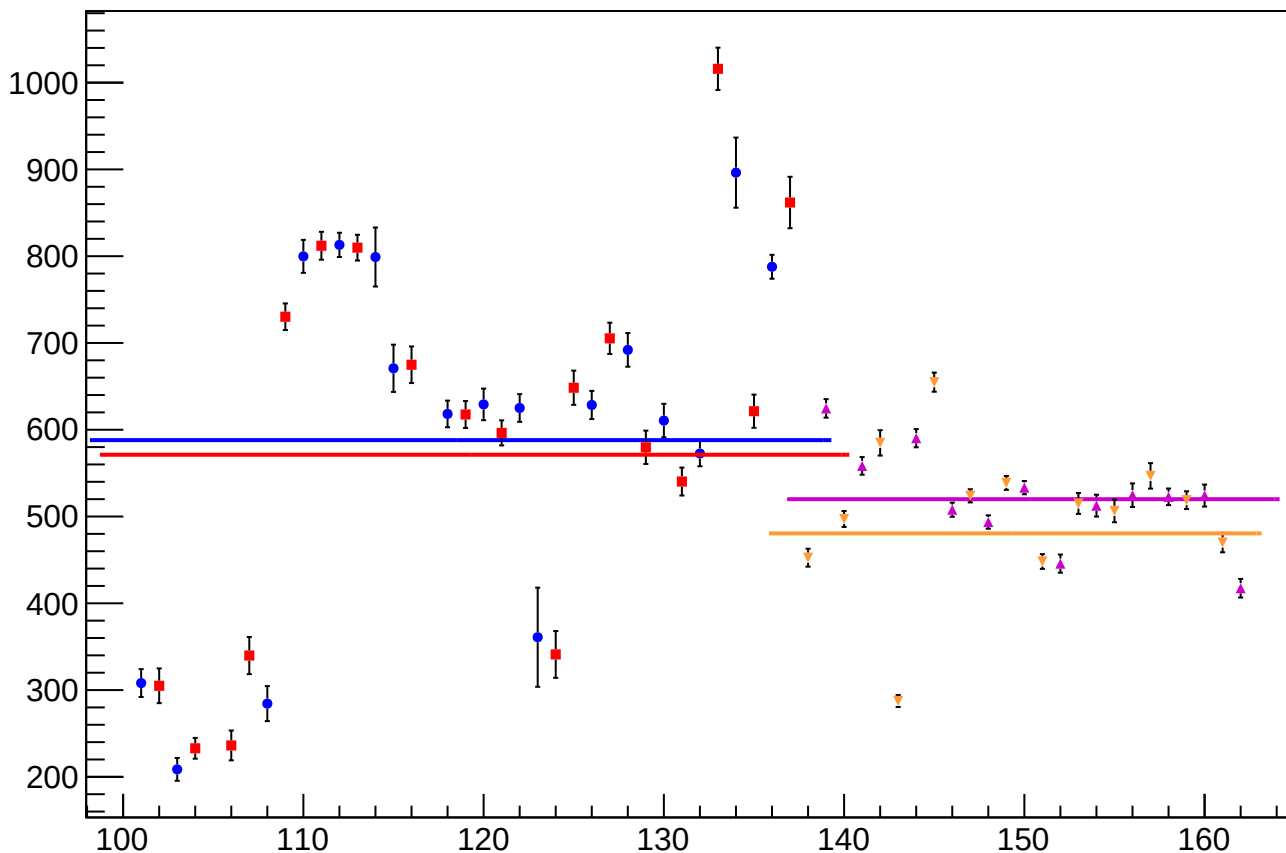
Left In:  $12.676 \pm 1.953$   $\chi^2/\text{NDF}$ : 150.5/11

+ sign  $1.814 \pm 1.413$   $\chi^2/\text{NDF}$ : 577.4/29

All:  $3.258 \pm 1.022$   $\chi^2/\text{NDF}$ : 1101.4/59

- sign  $4.838 \pm 1.478$   $\chi^2/\text{NDF}$ : 521.9/29

# 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:  $480.573 \pm 2.704$   $\chi^2/\text{NDF}$ : 1240.4/12

Right Out:  $571.196 \pm 4.151$   $\chi^2/\text{NDF}$ : 2680.4/17

Left In:  $519.977 \pm 2.851$   $\chi^2/\text{NDF}$ : 314.8/11

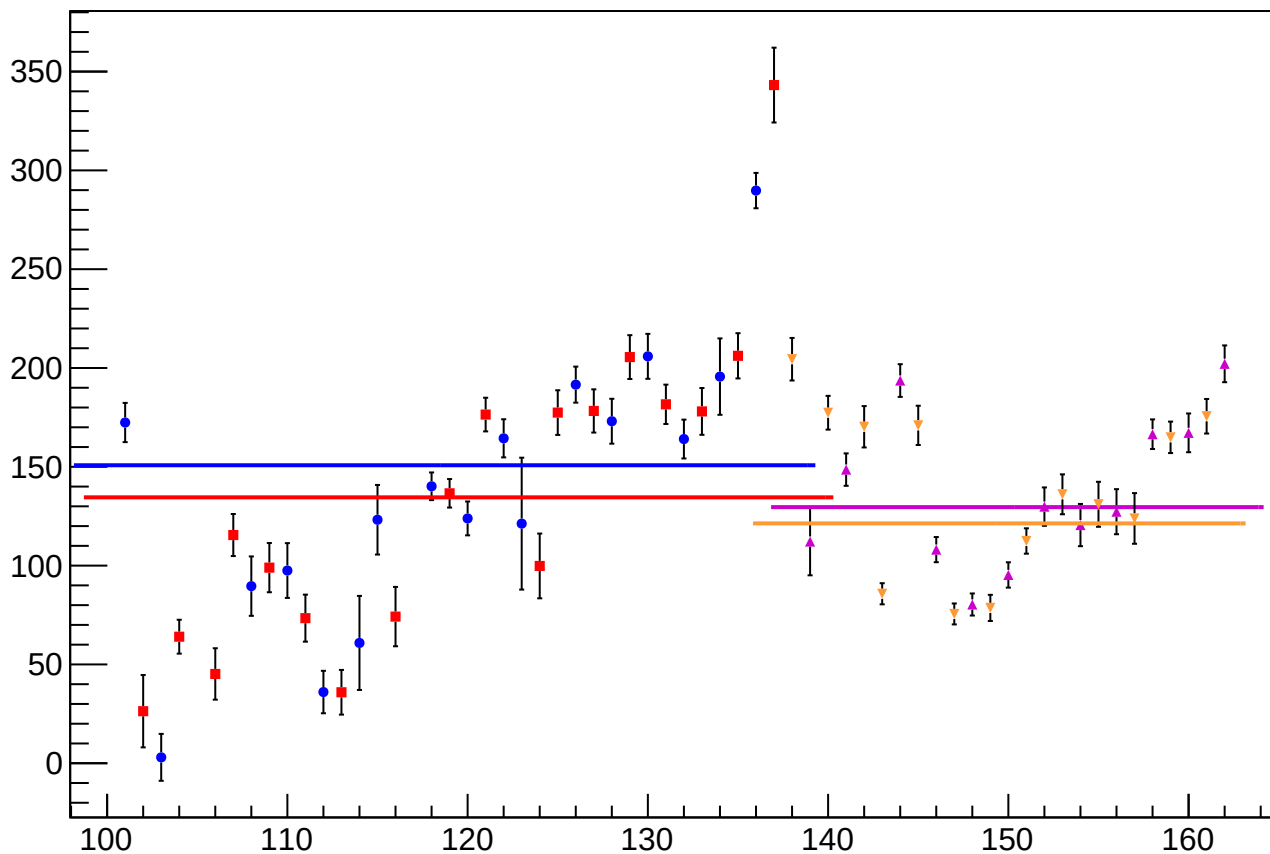
+ sign  $510.733 \pm 2.293$   $\chi^2/\text{NDF}$ : 3811.4/29

All:  $523.252 \pm 1.641$   $\chi^2/\text{NDF}$ : 6971.1/59

- sign  $536.399 \pm 2.350$   $\chi^2/\text{NDF}$ : 3098.6/29



# 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:  $121.365 \pm 2.173$   $\chi^2/\text{NDF}: 383.2/12$

Right Out:  $134.549 \pm 2.619$   $\chi^2/\text{NDF}: 576.2/17$

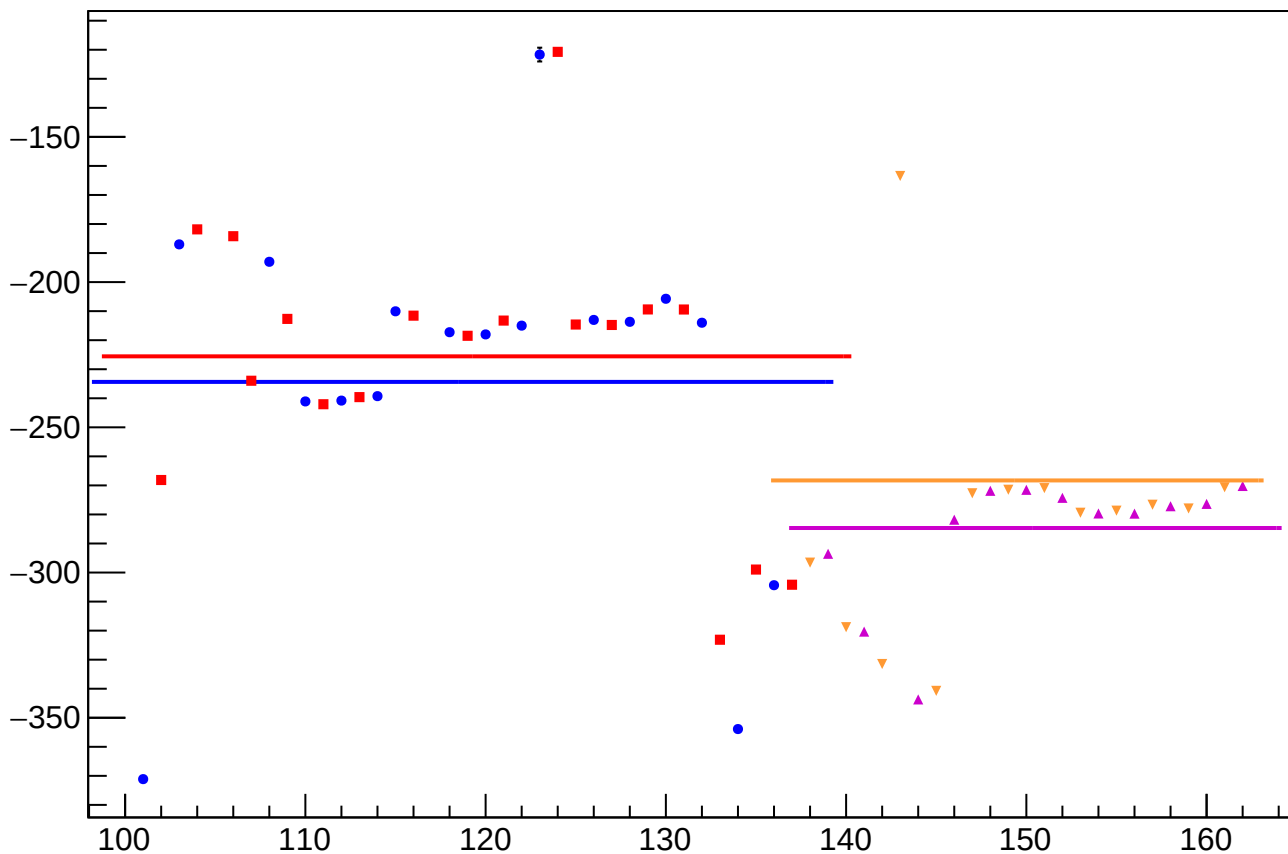
Left In:  $129.605 \pm 2.353$   $\chi^2/\text{NDF}: 284.6/11$

+ sign  $133.039 \pm 1.688$   $\chi^2/\text{NDF}: 1089.0/29$

All:  $132.448 \pm 1.215$   $\chi^2/\text{NDF}: 1952.1/59$

- sign  $131.812 \pm 1.750$   $\chi^2/\text{NDF}: 862.8/29$

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-234.360 \pm 0.148$   $\chi^2/\text{NDF}: 145159.1/16$

Left Out:  $-268.287 \pm 0.109$   $\chi^2/\text{NDF}: 204350.5/12$

Right Out:  $-225.561 \pm 0.142$   $\chi^2/\text{NDF}: 92955.0/17$

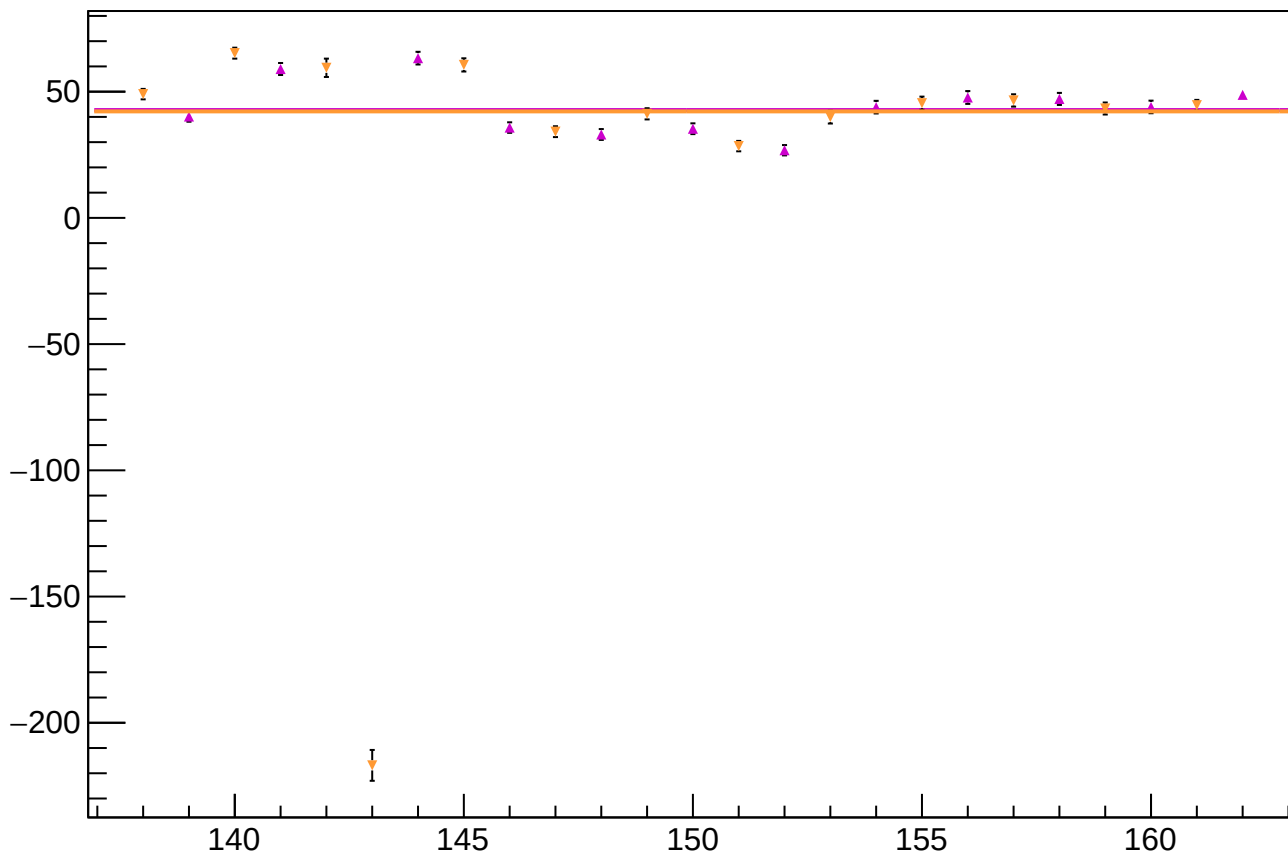
Left In:  $-284.666 \pm 0.113$   $\chi^2/\text{NDF}: 30666.0/11$

+ sign  $-256.404 \pm 0.088$   $\chi^2/\text{NDF}: 383432.9/29$

All:  $-258.998 \pm 0.062$   $\chi^2/\text{NDF}: 614661.7/59$

- sign  $-261.635 \pm 0.089$   $\chi^2/\text{NDF}: 229471.1/29$

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 42.193+/-0.672  $\chi^2/\text{NDF}$ :2058.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

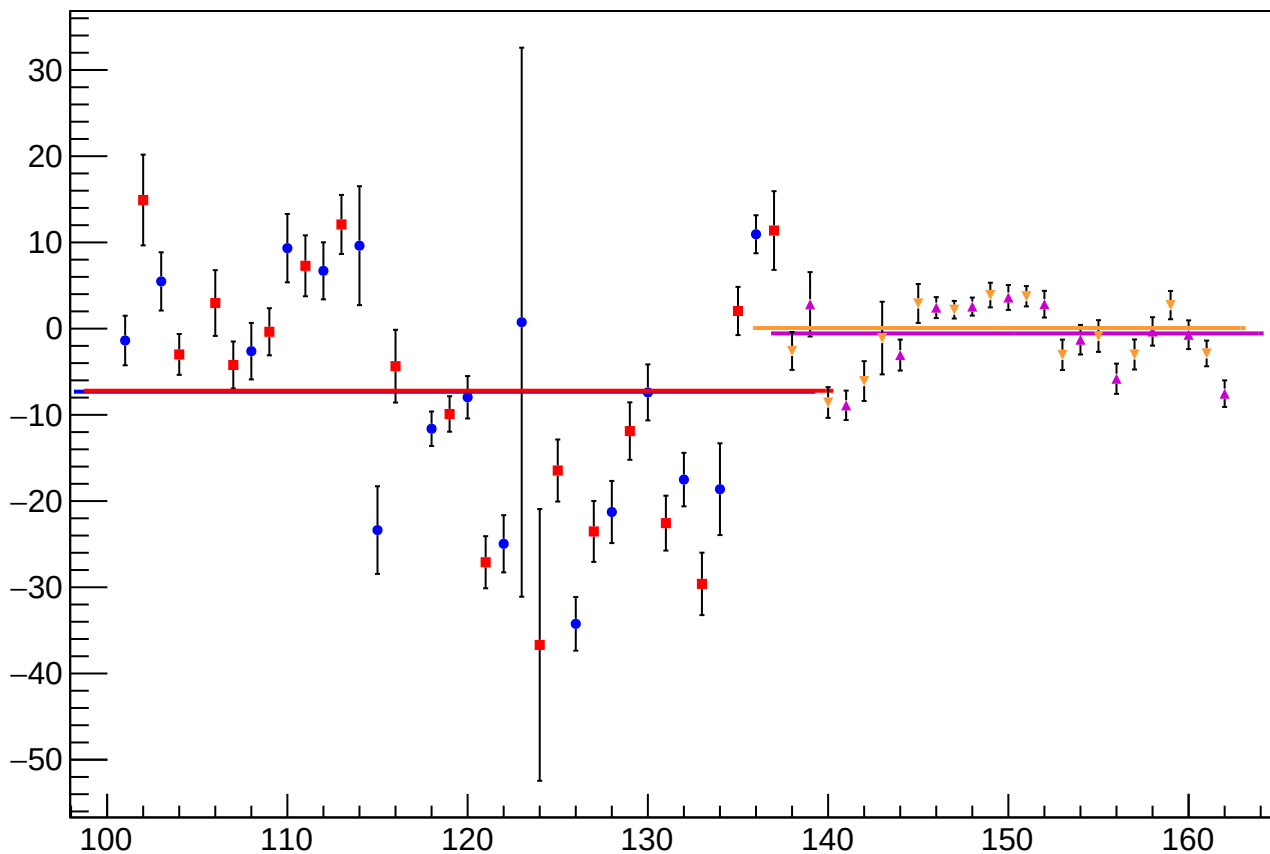
Left In: 42.707+/-0.646  $\chi^2/\text{NDF}$ :236.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.460+/-0.466  $\chi^2/\text{NDF}$ : 2295.3/24

- 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:  $0.075 \pm 0.452$   $\chi^2/\text{NDF}$ : 68.0/12

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

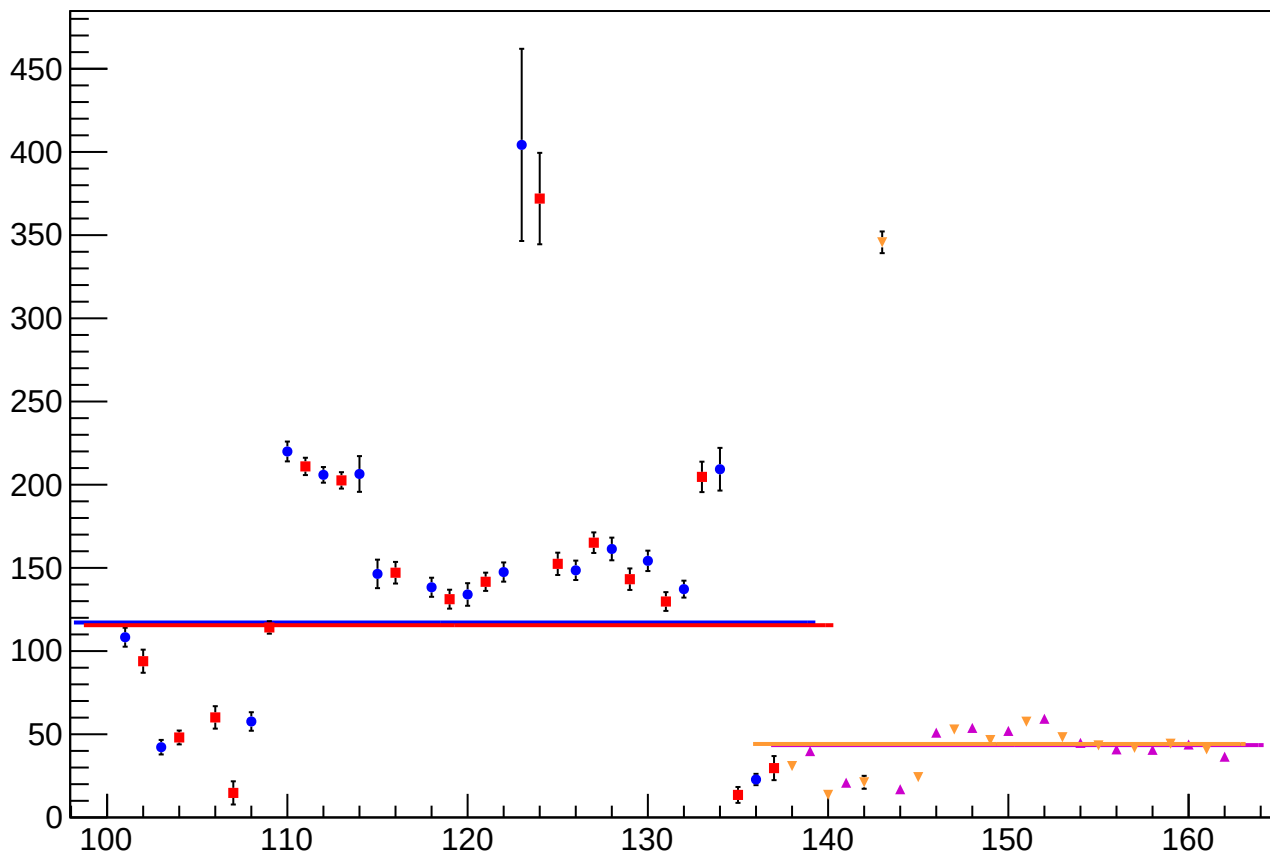
Left In:  $-0.554 \pm 0.446$   $\chi^2/\text{NDF}$ : 84.5/11

+ sign  $-1.779 \pm 0.391$   $\chi^2/\text{NDF}$ : 414.3/29

All:  $-2.018 \pm 0.274$   $\chi^2/\text{NDF}$ : 808.4/59

- sign  $-2.250 \pm 0.385$   $\chi^2/\text{NDF}$ : 393.3/29

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.177+/-1.411  $\chi^2/\text{NDF}$ : 2159.6/16

Left Out: 44.169+/-0.654  $\chi^2/\text{NDF}$ : 2511.8/12

Right Out: 115.556+/-1.363  $\chi^2/\text{NDF}$ : 2149.2/17

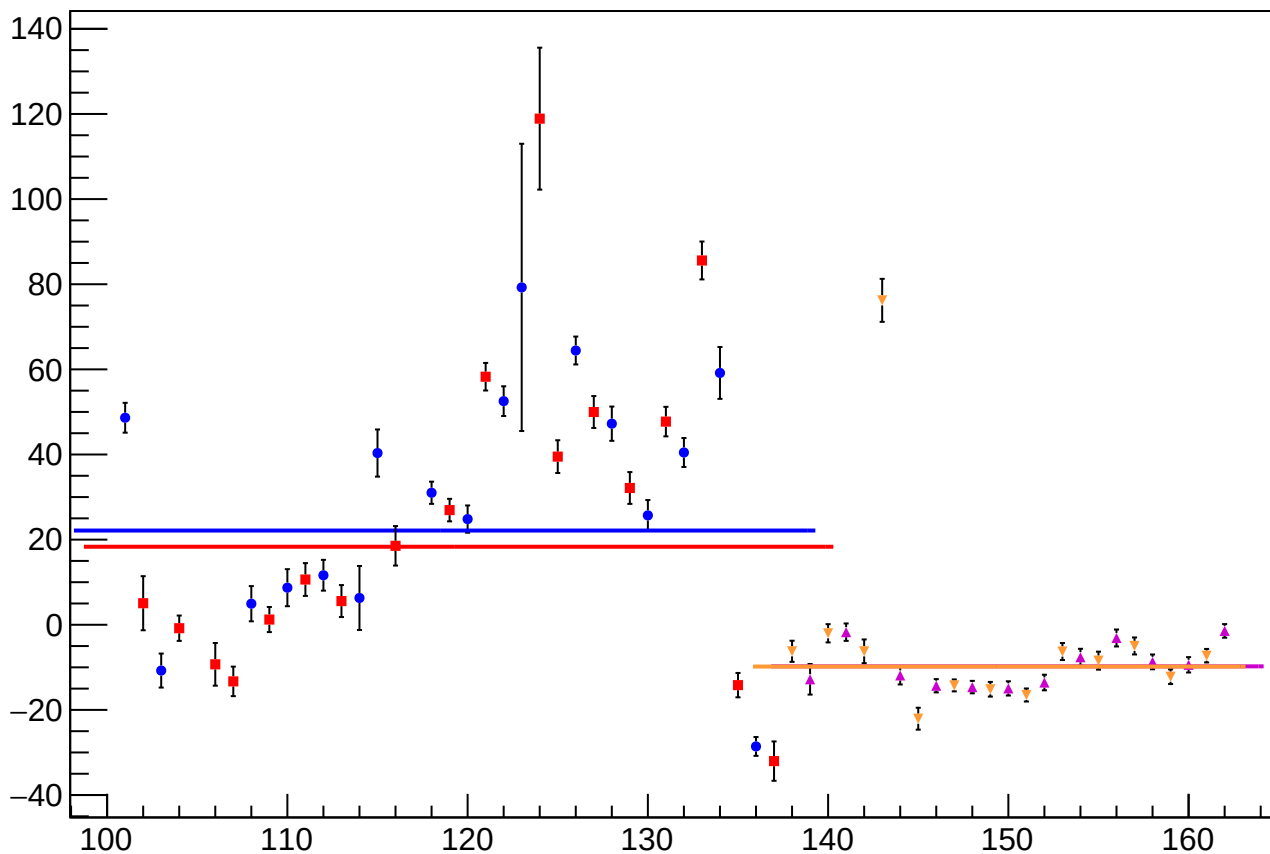
Left In: 43.487+/-0.626  $\chi^2/\text{NDF}$ : 320.9/11

+ sign 57.059+/-0.593  $\chi^2/\text{NDF}$ : 6874.8/29

All: 56.527+/-0.411  $\chi^2/\text{NDF}$ : 11654.7/59

- sign 56.037+/-0.569  $\chi^2/\text{NDF}$ : 4778.4/29

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.136 $\pm$ 0.891  $\chi^2/\text{NDF}$ : 1064.1/16

Left Out: -9.816 $\pm$ 0.540  $\chi^2/\text{NDF}$ : 382.6/12

Right Out: 18.331 $\pm$ 0.872  $\chi^2/\text{NDF}$ : 1070.4/17

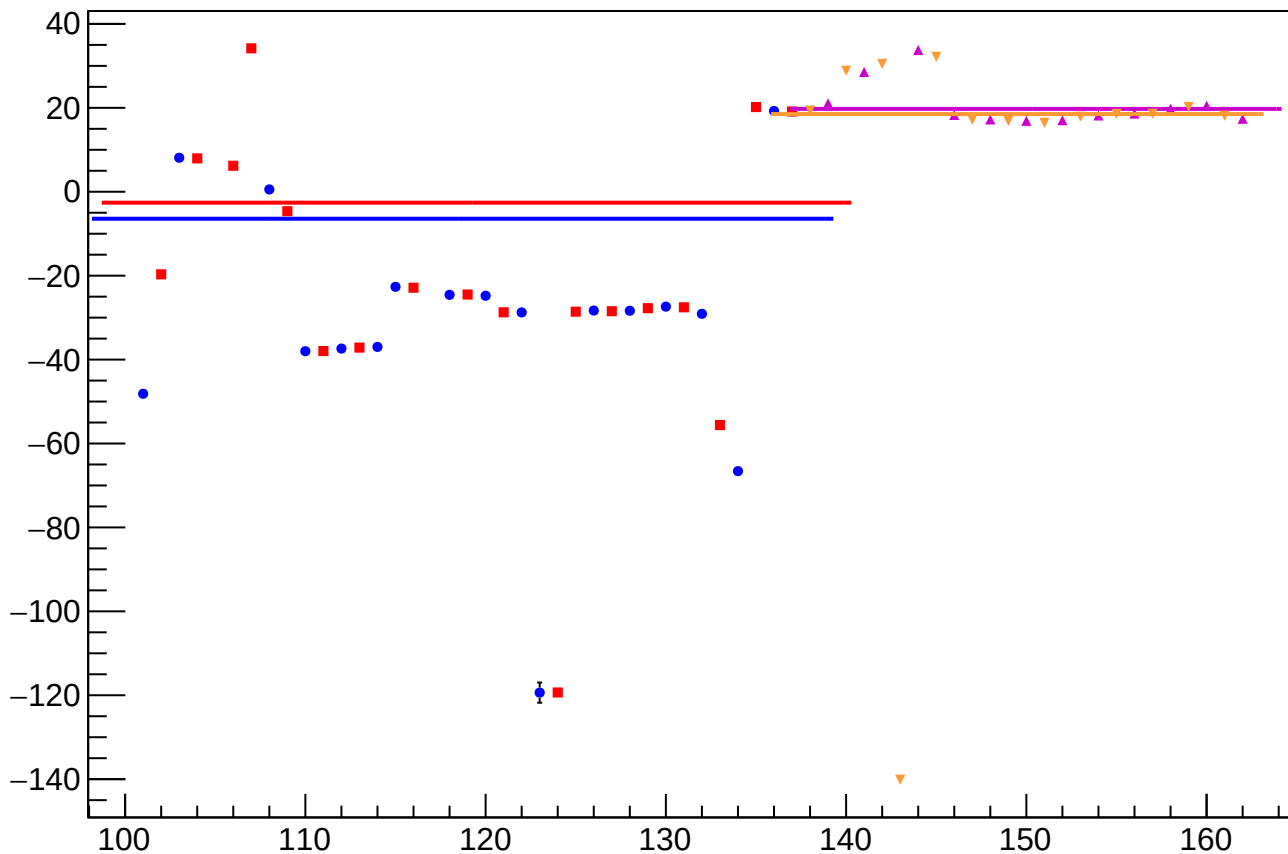
Left In: -9.766 $\pm$ 0.526  $\chi^2/\text{NDF}$ : 90.5/11

+ sign -1.229 $\pm$ 0.462  $\chi^2/\text{NDF}$ : 2386.8/29

All: -1.757 $\pm$ 0.323  $\chi^2/\text{NDF}$ : 4311.1/59

- sign -2.260 $\pm$ 0.451  $\chi^2/\text{NDF}$ : 1921.7/29

# 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:  $18.515 \pm 0.026$   $\chi^2/\text{NDF}: 400143.3/12$

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}: 263579.4/17$

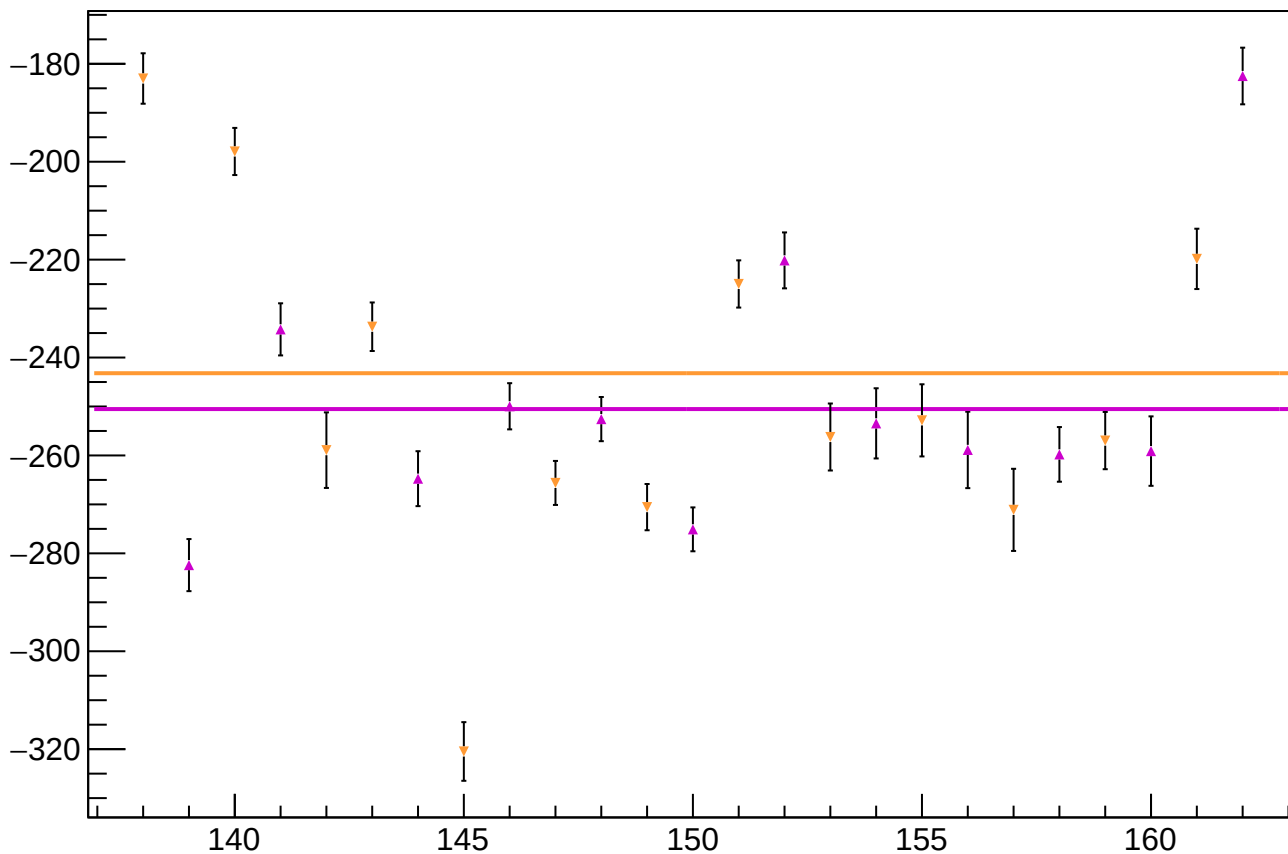
Left In:  $19.750 \pm 0.024$   $\chi^2/\text{NDF}: 27063.6/11$

+ sign  $12.690 \pm 0.022$   $\chi^2/\text{NDF}: 888597.9/29$

All:  $13.792 \pm 0.015$   $\chi^2/\text{NDF}: 1369640.5/59$

- sign  $14.815 \pm 0.022$   $\chi^2/\text{NDF}: 476346.0/29$

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -243.202+/-1.556  $\chi^2/\text{NDF}$ : 508.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -250.526+/-1.592  $\chi^2/\text{NDF}$ : 254.0/11

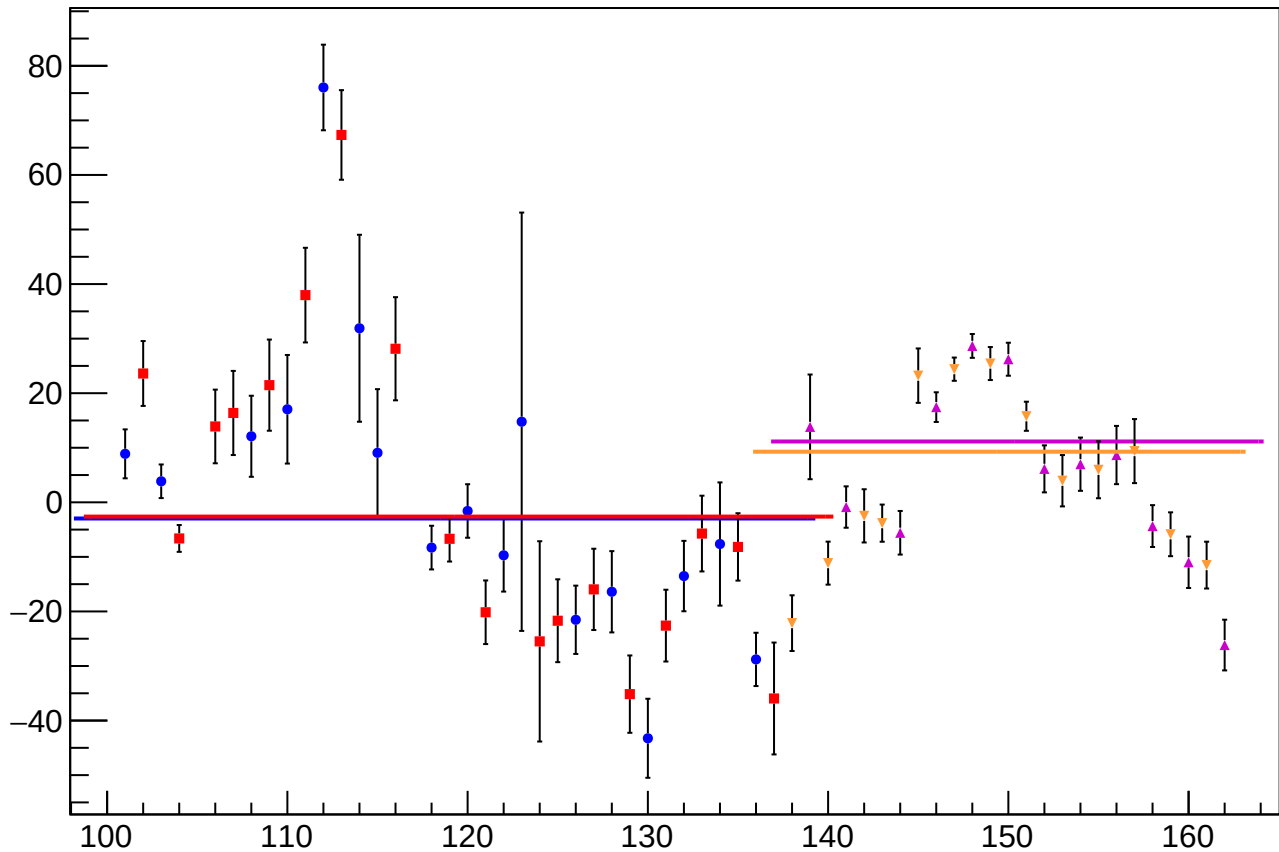
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -246.780+/-1.113  $\chi^2/\text{NDF}$ : 773.0/24

- 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:  $9.278 \pm 1.016$   $\chi^2/\text{NDF}$ : 217.4/12

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

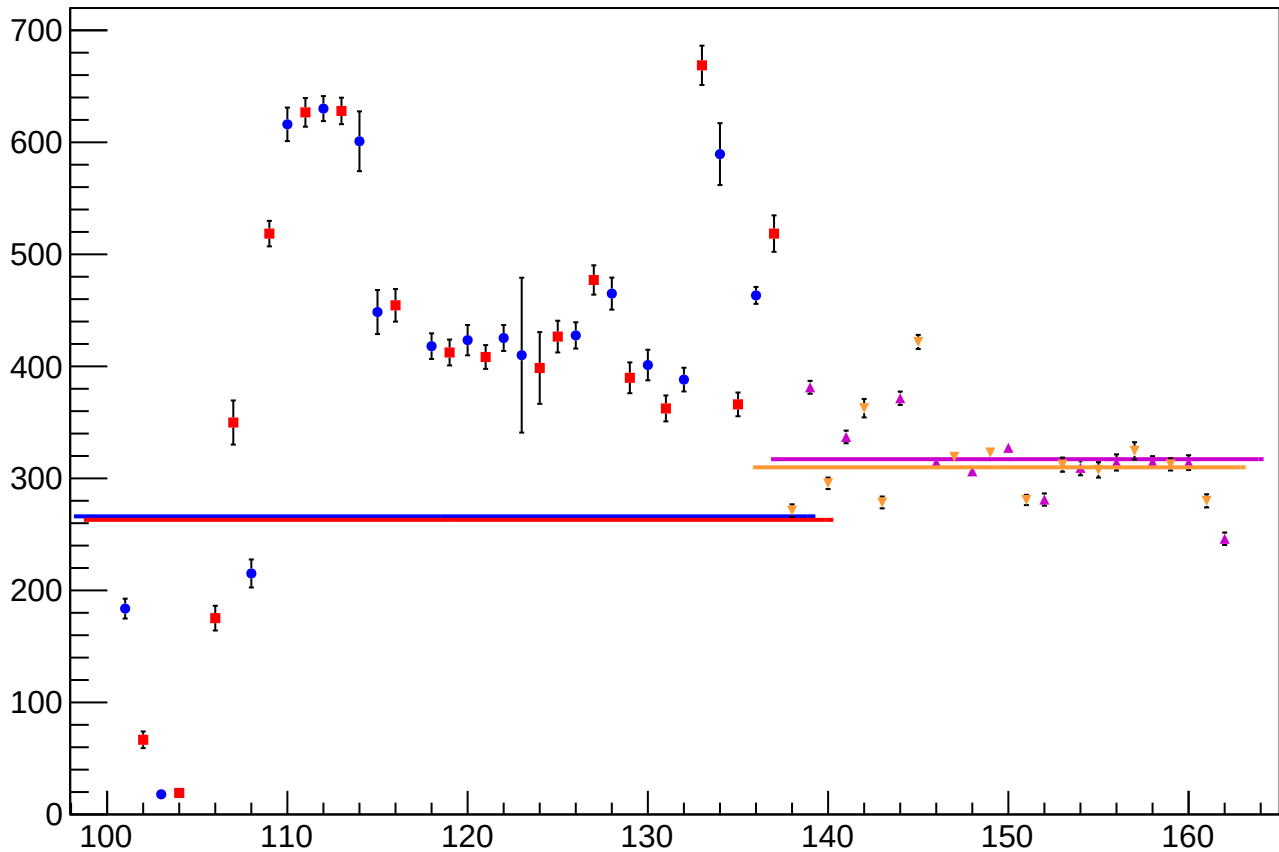
Left In:  $11.150 \pm 1.062$   $\chi^2/\text{NDF}$ : 227.3/11

+ sign  $5.256 \pm 0.833$   $\chi^2/\text{NDF}$ : 468.6/29

All:  $5.681 \pm 0.593$   $\chi^2/\text{NDF}$ : 968.4/59

- sign  $6.119 \pm 0.846$   $\chi^2/\text{NDF}$ : 499.2/29

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 309.881 $\pm$ 1.531  $\chi^2$ /NDF: 532.1/12

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

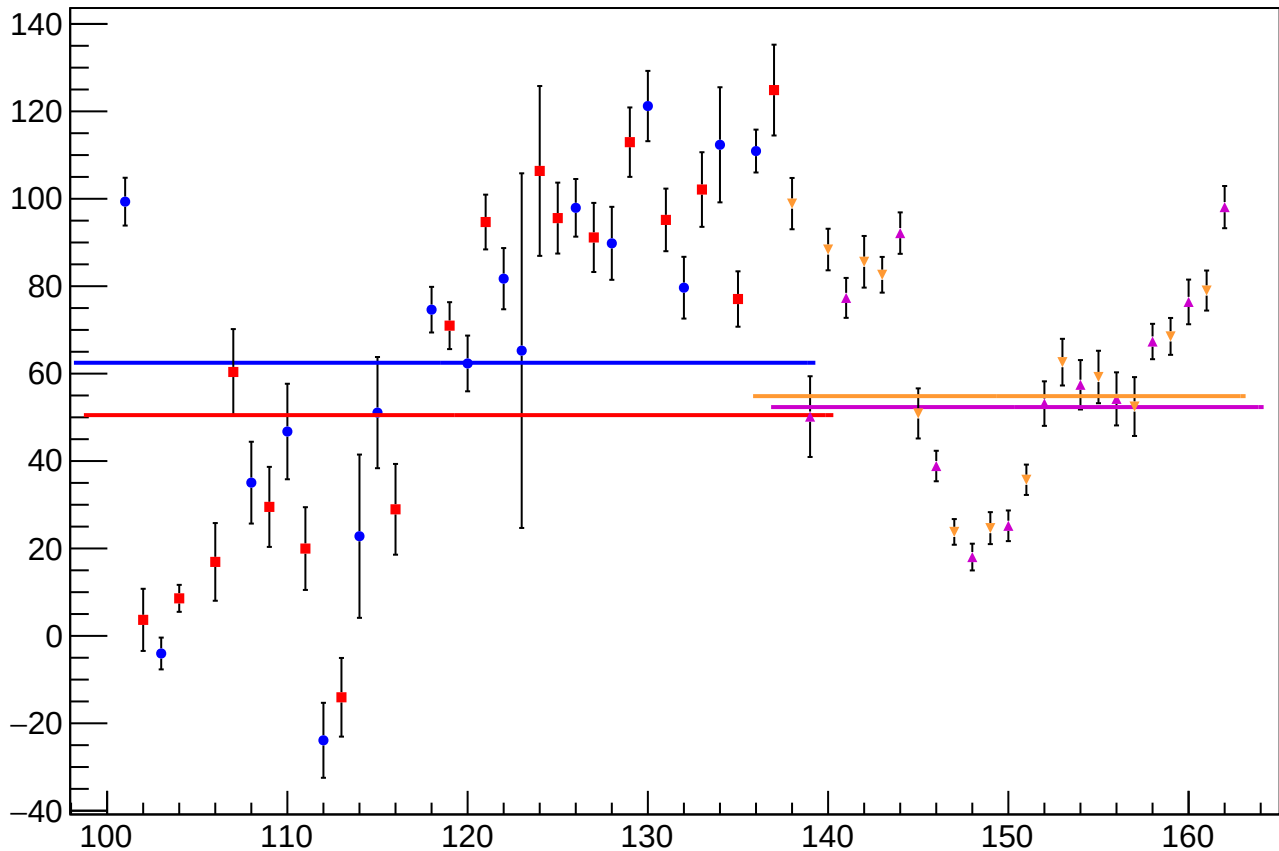
Left In: 317.144 $\pm$ 1.545  $\chi^2$ /NDF: 439.3/11

+ sign 297.810 $\pm$ 1.302  $\chi^2$ /NDF: 8401.7/29

All: 299.840 $\pm$ 0.923  $\chi^2$ /NDF: 17364.0/59

- sign 301.891 $\pm$ 1.309  $\chi^2$ /NDF: 8957.4/29

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 62.485+/-1.681  $\chi^2/\text{NDF}$ : 720.8/16

Left Out: 54.850+/-1.236  $\chi^2/\text{NDF}$ : 431.2/12

Right Out: 50.506+/-1.644  $\chi^2/\text{NDF}$ : 650.6/17

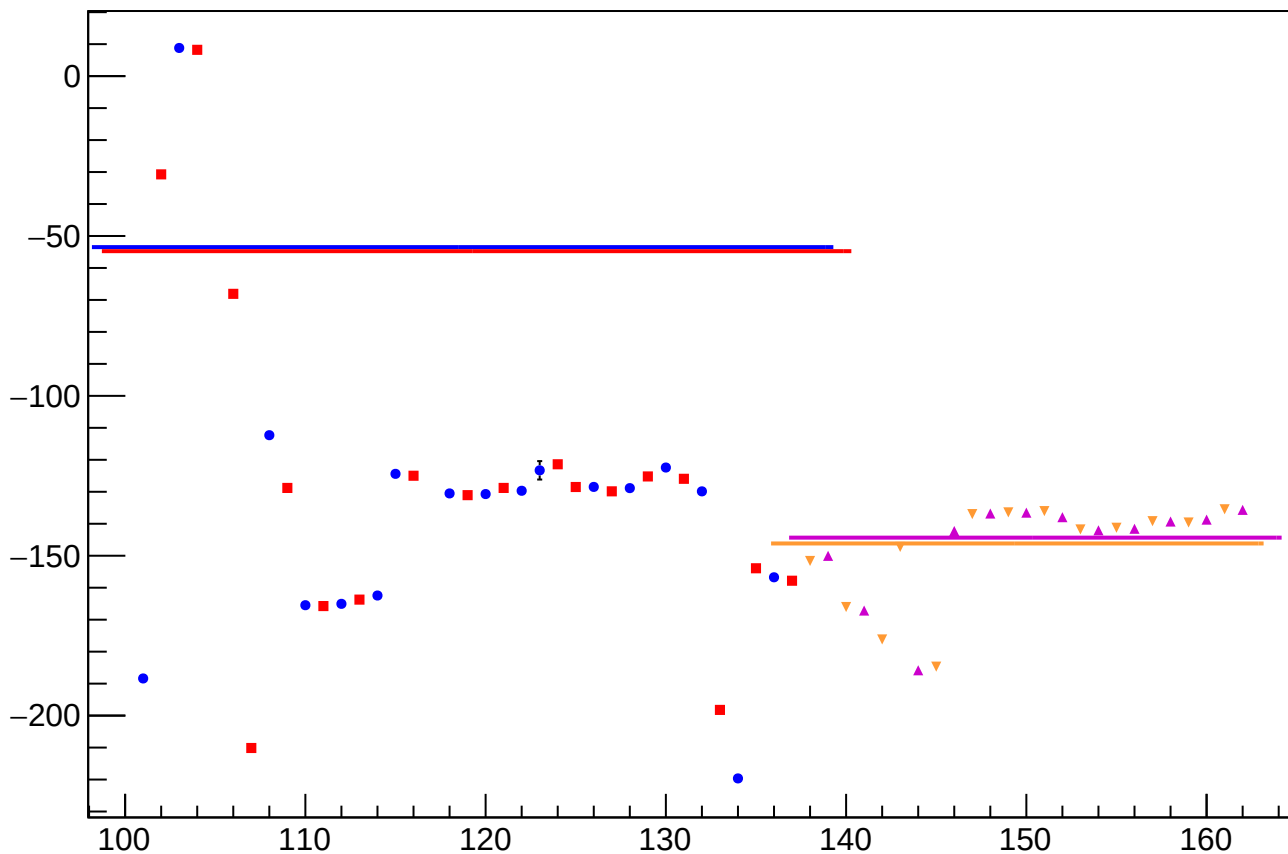
Left In: 52.348+/-1.276  $\chi^2/\text{NDF}$ : 427.8/11

+ sign 57.530+/-0.996  $\chi^2/\text{NDF}$ : 1165.3/29

All: 54.629+/-0.709  $\chi^2/\text{NDF}$ : 2261.7/59

- sign 51.656+/-1.008  $\chi^2/\text{NDF}$ : 1079.1/29

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -53.481 $\pm$ 0.070  $\chi^2$ /NDF: 1228730.5/16

Left Out: -146.166 $\pm$ 0.061  $\chi^2$ /NDF: 53057.0/12

Right Out: -54.748 $\pm$ 0.072  $\chi^2$ /NDF: 952446.3/17

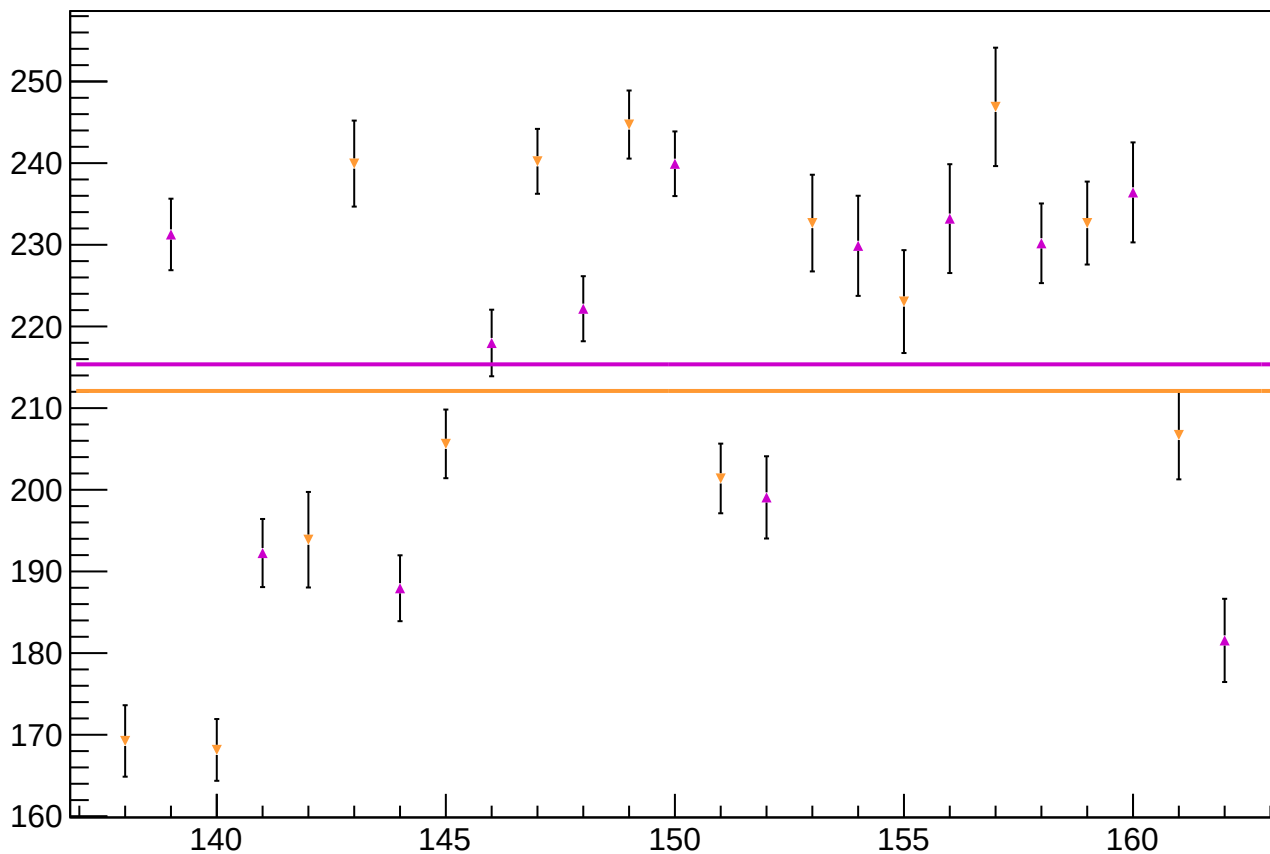
Left In: -144.344 $\pm$ 0.061  $\chi^2$ /NDF: 43295.3/11

+ sign -106.005 $\pm$ 0.046  $\chi^2$ /NDF: 2266570.3/29

All: -106.399 $\pm$ 0.033  $\chi^2$ /NDF: 4158803.4/59

- sign -106.801 $\pm$ 0.047  $\chi^2$ /NDF: 1892086.4/29

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 212.102+/-1.330  $\chi^2/\text{NDF}$ : 444.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

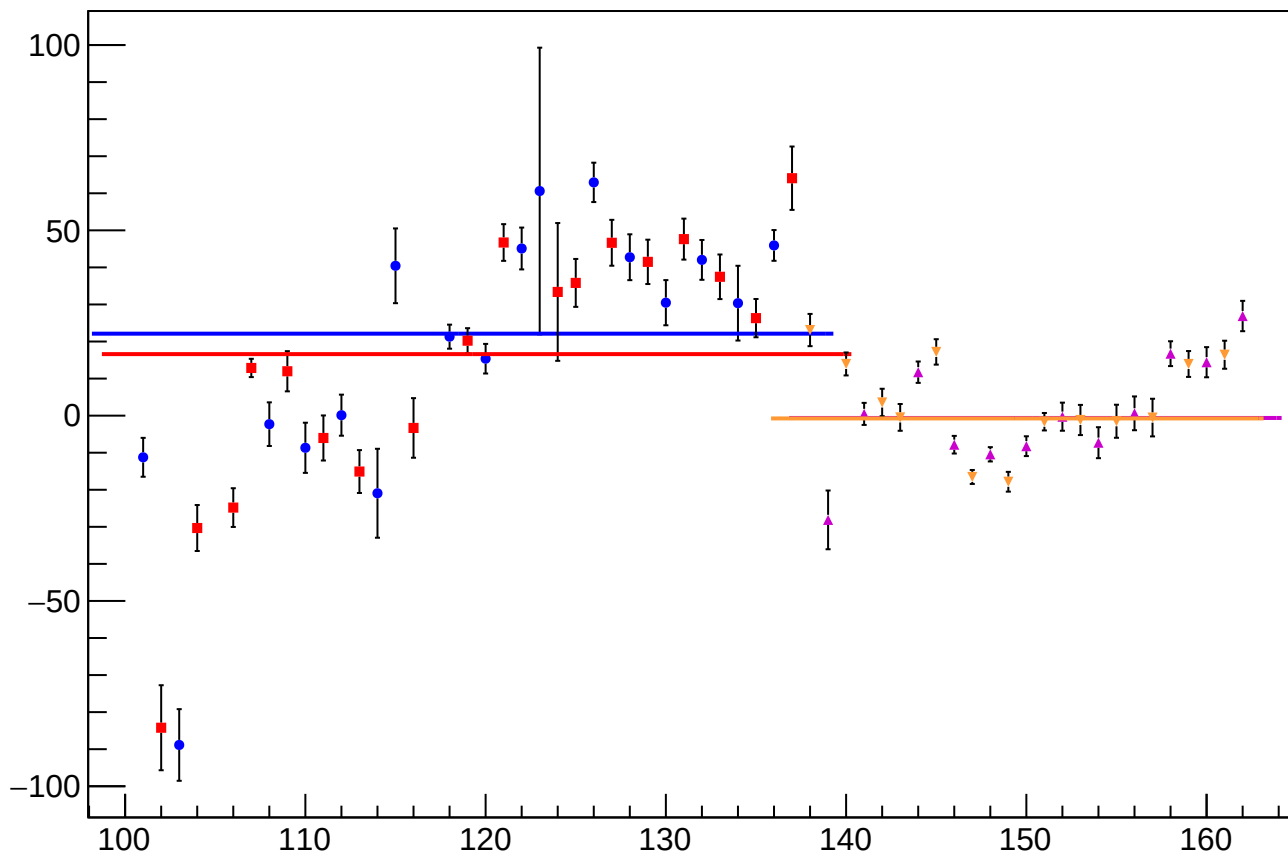
Left In: 215.361+/-1.344  $\chi^2/\text{NDF}$ : 220.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 213.715+/-0.945  $\chi^2/\text{NDF}$ : 667.3/24

- 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  $\chi^2/\text{NDF}$ : 382.0/16

Left Out: -0.751 $\pm$ 0.879  $\chi^2/\text{NDF}$ : 231.1/12

Right Out: 16.602 $\pm$ 1.229  $\chi^2/\text{NDF}$ : 416.8/17

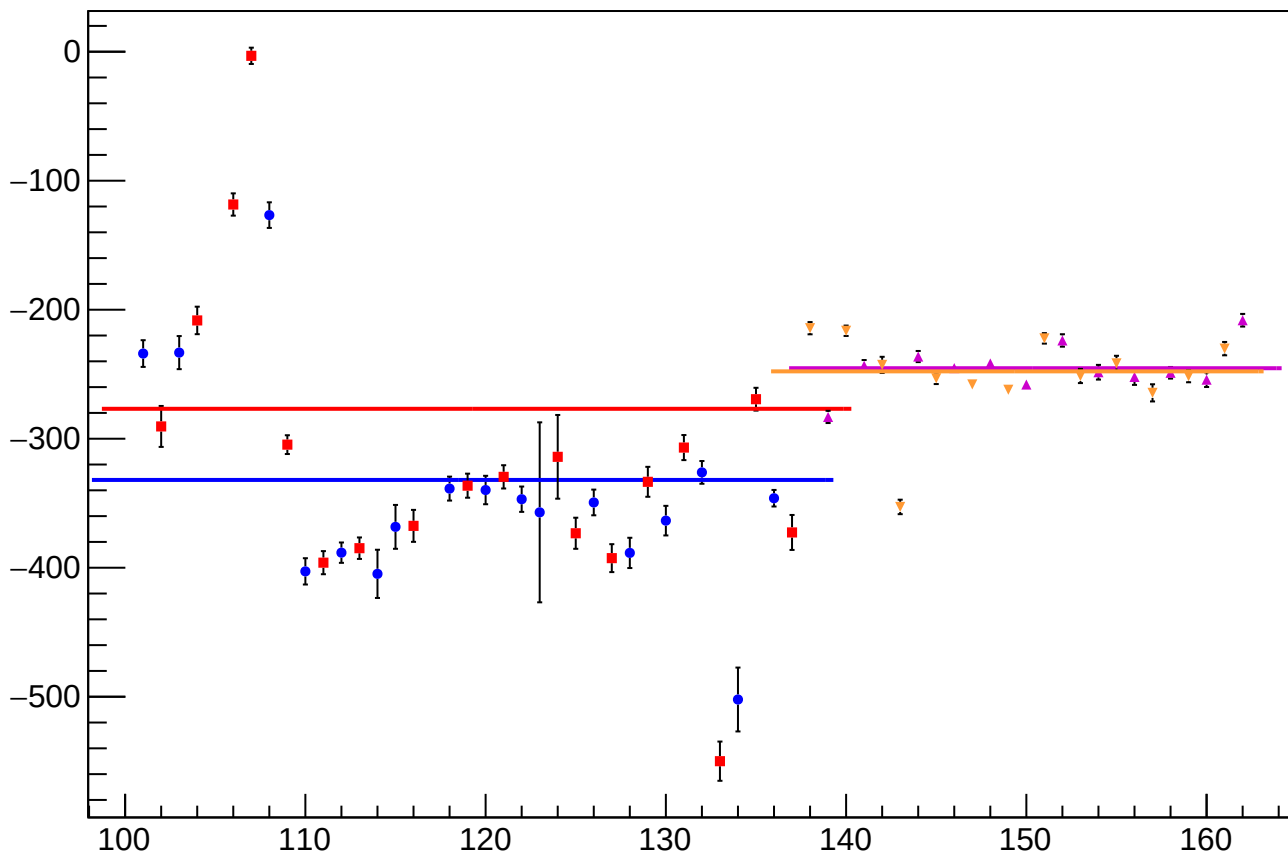
Left In: -0.628 $\pm$ 0.906  $\chi^2/\text{NDF}$ : 161.9/11

+ sign 5.871 $\pm$ 0.741  $\chi^2/\text{NDF}$ : 809.1/29

All: 5.651 $\pm$ 0.520  $\chi^2/\text{NDF}$ : 1515.4/59

- sign 5.438 $\pm$ 0.729  $\chi^2/\text{NDF}$ : 706.1/29

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-331.952 \pm 2.567$   $\chi^2/\text{NDF}$ : 785.6/16

Left Out:  $-247.785 \pm 1.314$   $\chi^2/\text{NDF}$ : 543.5/12

Right Out:  $-276.804 \pm 2.329$   $\chi^2/\text{NDF}$ : 3330.4/17

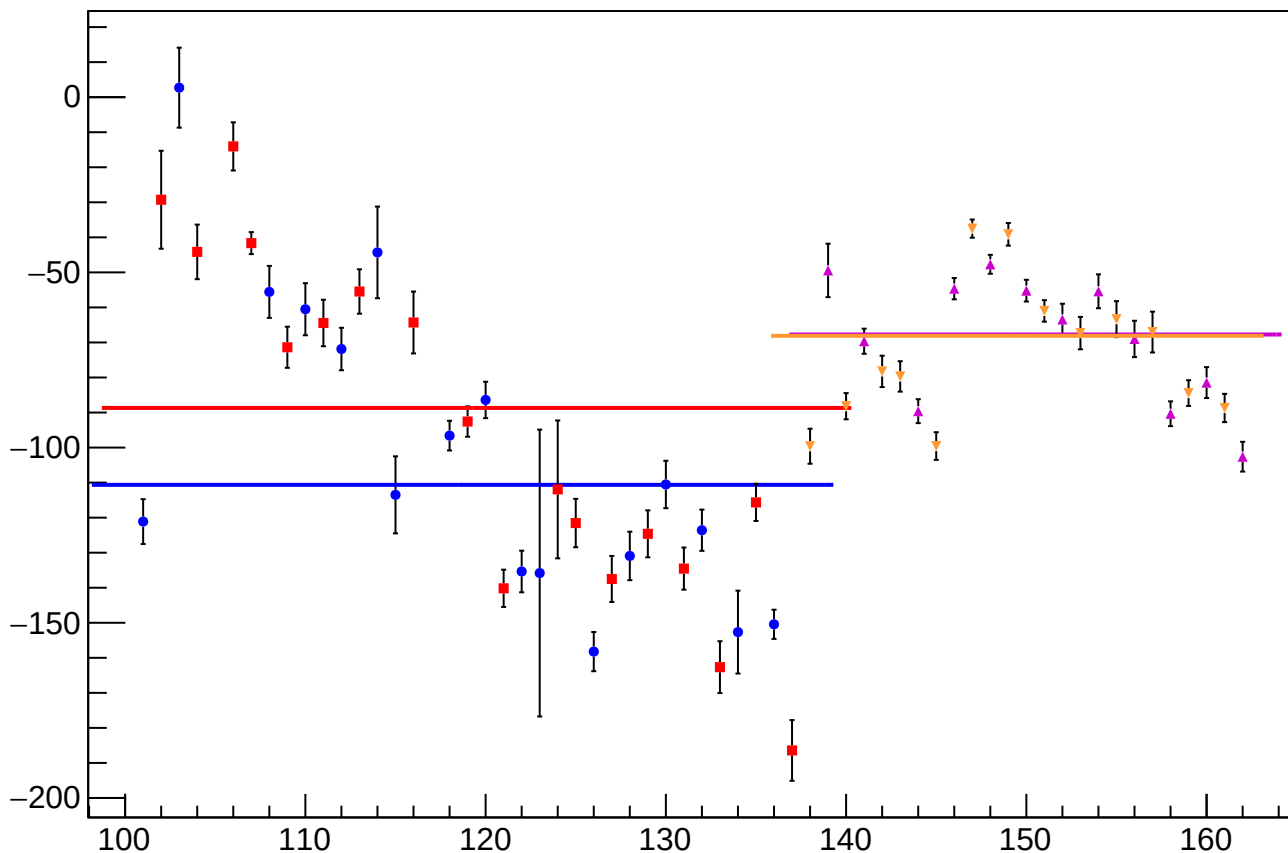
Left In:  $-245.350 \pm 1.312$   $\chi^2/\text{NDF}$ : 162.8/11

+ sign  $-265.247 \pm 1.169$   $\chi^2/\text{NDF}$ : 2180.9/29

All:  $-258.943 \pm 0.817$   $\chi^2/\text{NDF}$ : 5869.3/59

- sign  $-252.921 \pm 1.143$   $\chi^2/\text{NDF}$ : 3631.6/29

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -110.633+/-1.581  $\chi^2$ /NDF: 508.9/16

Left Out: -68.108+/-1.066  $\chi^2$ /NDF: 415.9/12

Right Out: -88.683+/-1.434  $\chi^2$ /NDF: 964.0/17

Left In: -67.728+/-1.087  $\chi^2$ /NDF: 262.2/11

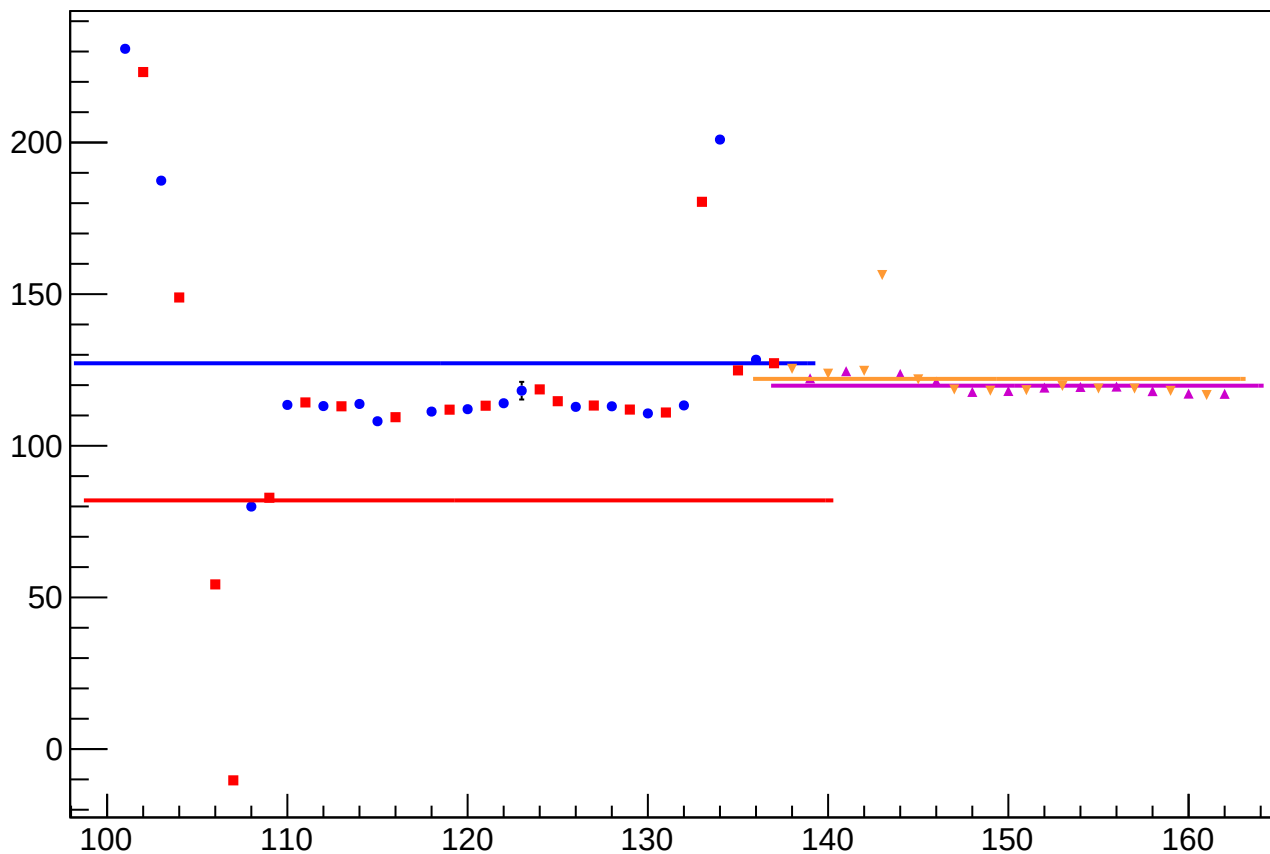
+ sign -81.405+/-0.884  $\chi^2$ /NDF: 1421.9/29

All: -78.326+/-0.619  $\chi^2$ /NDF: 2807.4/59

- sign -75.370+/-0.866  $\chi^2$ /NDF: 1361.7/29



# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 122.064 $\pm$ 0.053  $\chi^2$ /NDF: 26683.3/12

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

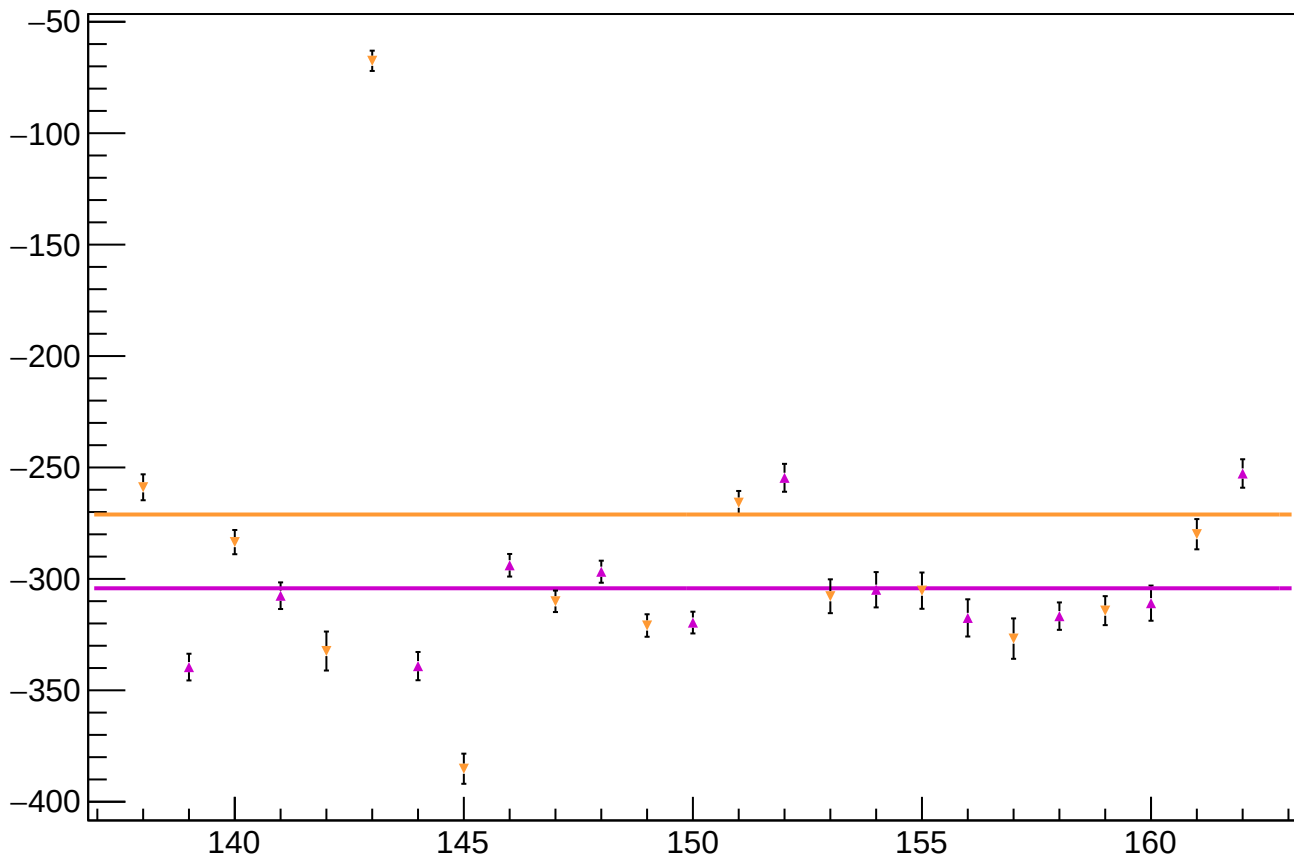
Left In: 119.820 $\pm$ 0.052  $\chi^2$ /NDF: 2170.2/11

+ sign 123.395 $\pm$ 0.045  $\chi^2$ /NDF: 217174.4/29

All: 115.064 $\pm$ 0.031  $\chi^2$ /NDF: 1203177.3/59

- sign 107.628 $\pm$ 0.043  $\chi^2$ /NDF: 922164.8/29

# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -271.107+/-1.679  $\chi^2/\text{NDF}$ : 2633.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

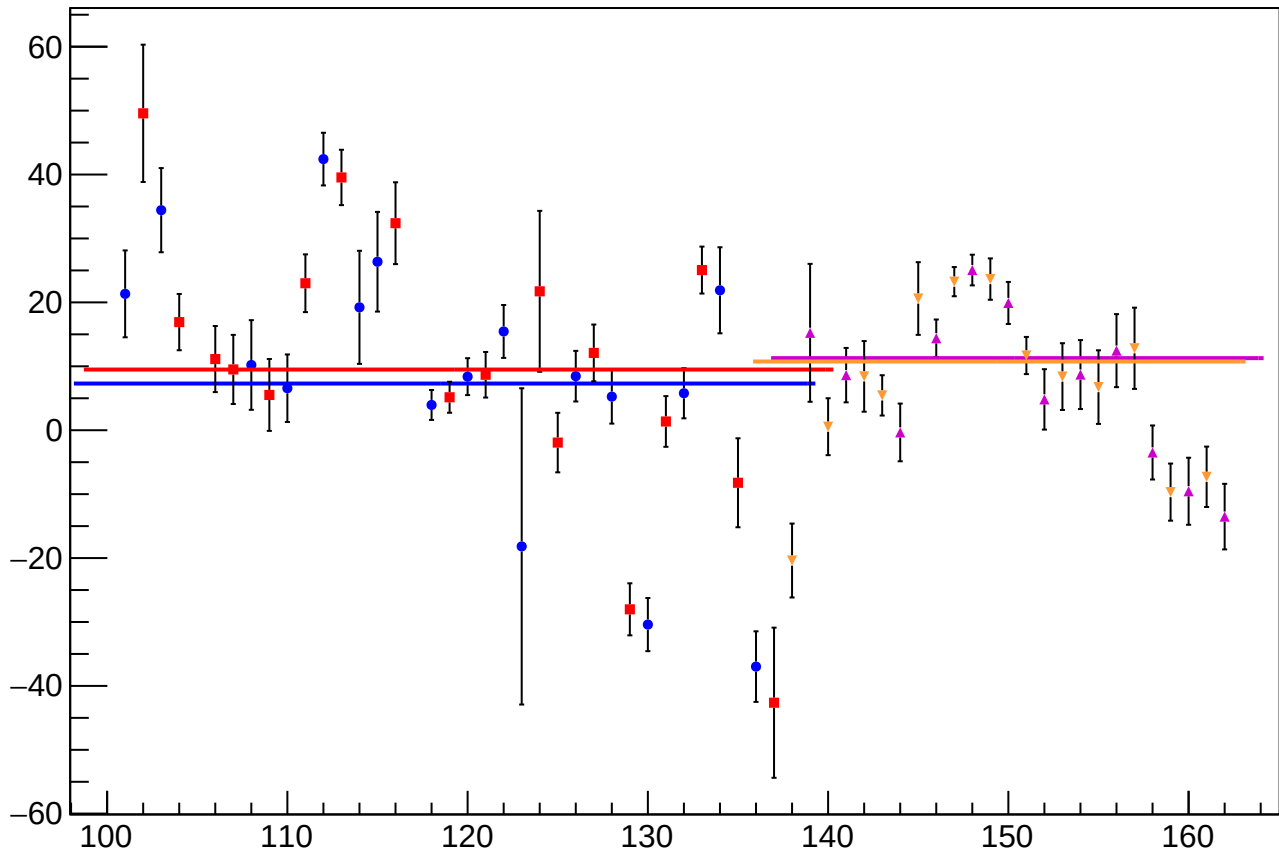
Left In: -304.215+/-1.753  $\chi^2/\text{NDF}$ : 216.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -286.942+/-1.213  $\chi^2/\text{NDF}$ : 3036.6/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.303 \pm 1.086$   $\chi^2/\text{NDF}$ : 260.6/16

Left Out:  $10.751 \pm 1.093$   $\chi^2/\text{NDF}$ : 122.4/12

Right Out:  $9.493 \pm 1.073$   $\chi^2/\text{NDF}$ : 231.1/17

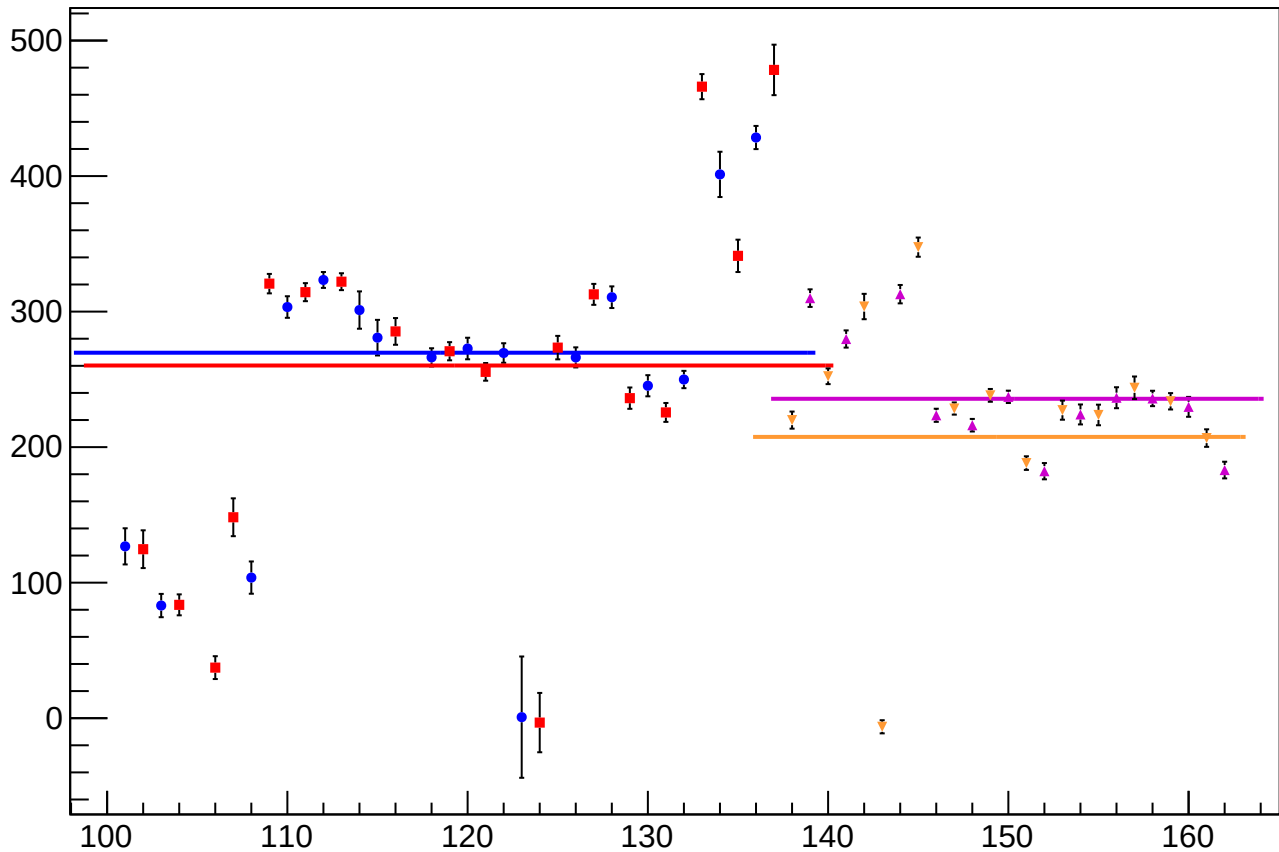
Left In:  $11.277 \pm 1.166$   $\chi^2/\text{NDF}$ : 101.6/11

+ sign  $9.015 \pm 0.770$   $\chi^2/\text{NDF}$ : 388.1/29

All:  $9.646 \pm 0.551$   $\chi^2/\text{NDF}$ : 723.5/59

- sign  $10.310 \pm 0.790$   $\chi^2/\text{NDF}$ : 334.0/29

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 269.664 $\pm$ 2.076  $\chi^2$ /NDF: 1376.6/16

Left Out: 207.547 $\pm$ 1.653  $\chi^2$ /NDF: 2631.5/12

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

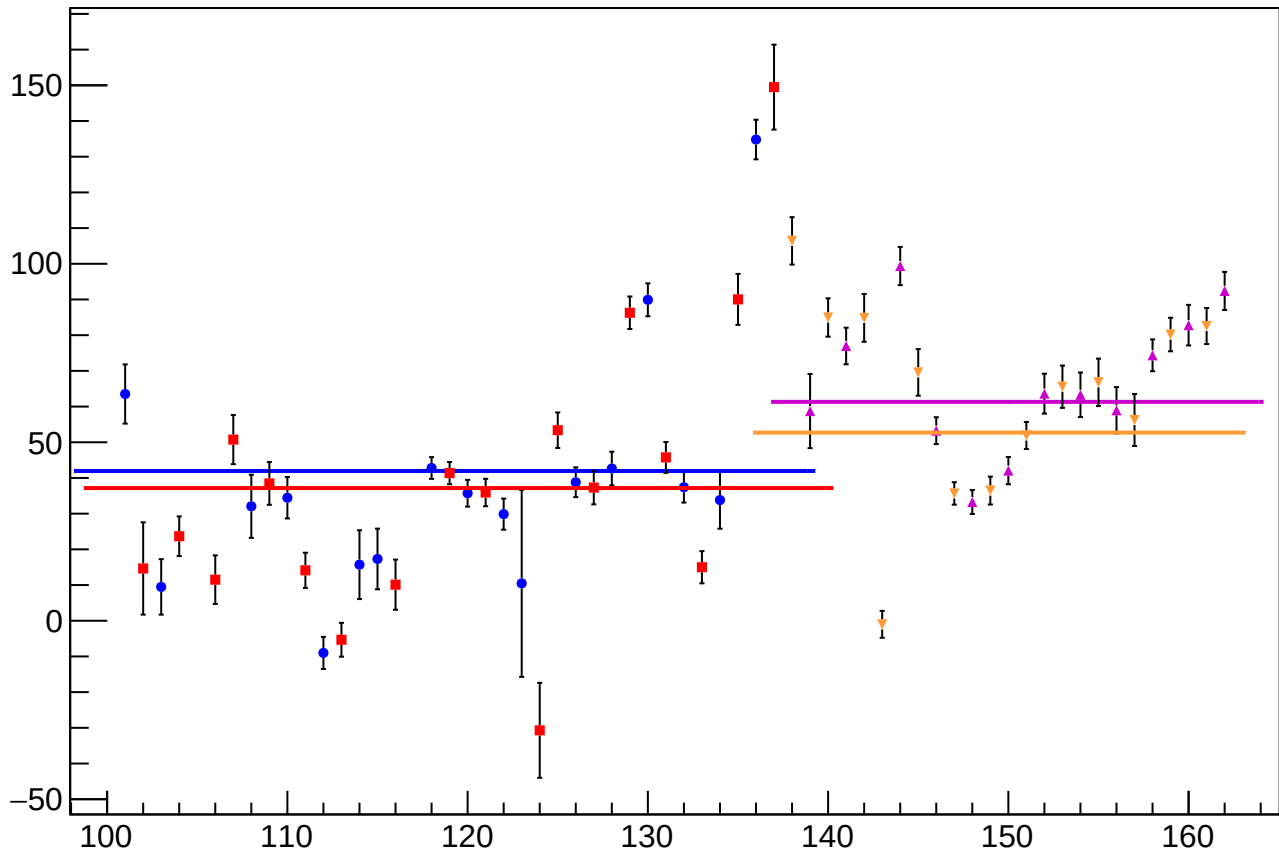
Left In: 235.674 $\pm$ 1.699  $\chi^2$ /NDF: 488.3/11

+ sign 231.653 $\pm$ 1.293  $\chi^2$ /NDF: 4555.9/29

All: 238.897 $\pm$ 0.913  $\chi^2$ /NDF: 7723.3/59

- sign 246.094 $\pm$ 1.289  $\chi^2$ /NDF: 3104.9/29

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 41.959+/-1.258  $\chi^2/\text{NDF}$ : 574.2/16

Left Out: 52.712+/-1.331  $\chi^2/\text{NDF}$ : 459.5/12

Right Out: 37.171+/-1.236  $\chi^2/\text{NDF}$ : 470.9/17

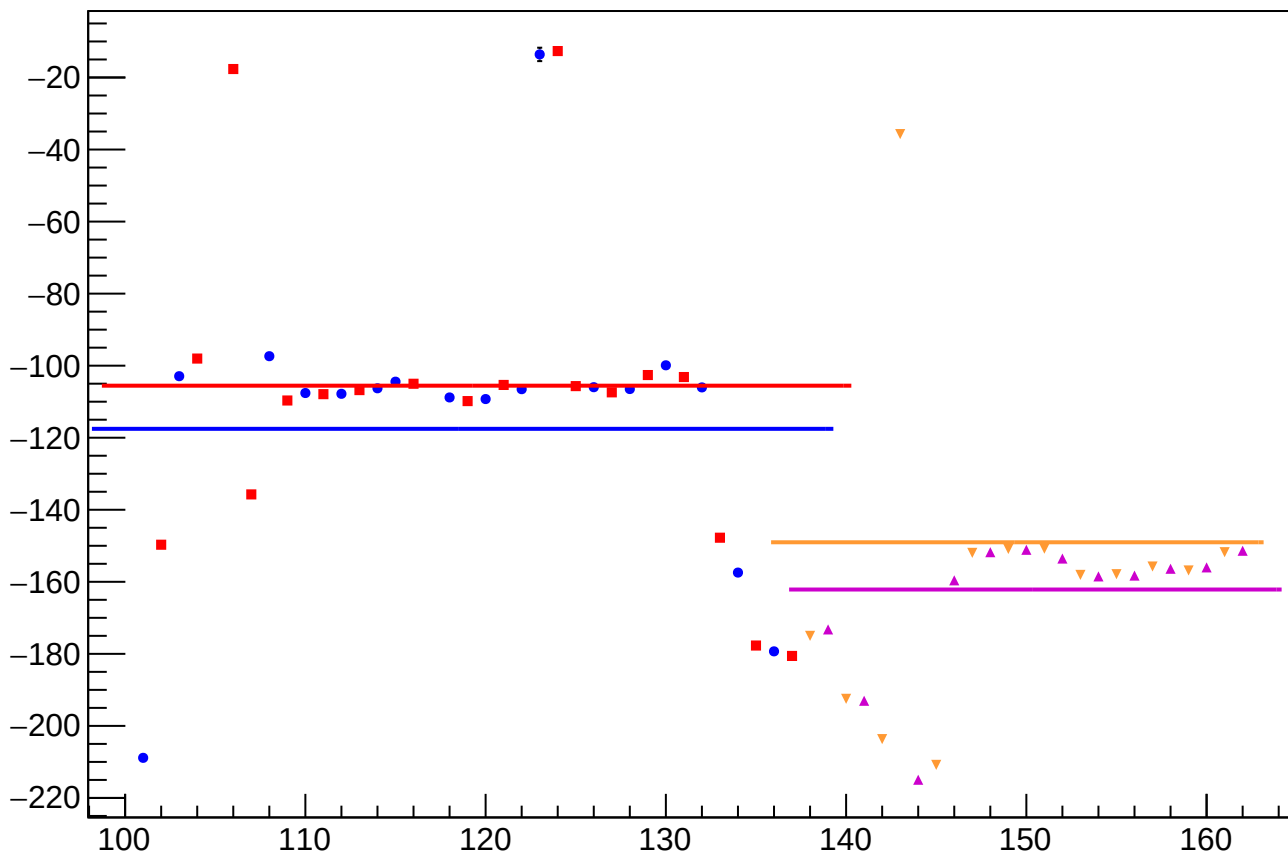
Left In: 61.319+/-1.403  $\chi^2/\text{NDF}$ : 217.0/11

+ sign 47.032+/-0.914  $\chi^2/\text{NDF}$ : 1068.2/29

All: 47.373+/-0.651  $\chi^2/\text{NDF}$ : 1923.2/59

- sign 47.724+/-0.927  $\chi^2/\text{NDF}$ : 854.6/29

# 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:  $-149.027 \pm 0.066$   $\chi^2/\text{NDF}: 452852.7/12$

Right Out:  $-105.555 \pm 0.073$   $\chi^2/\text{NDF}: 317428.5/17$

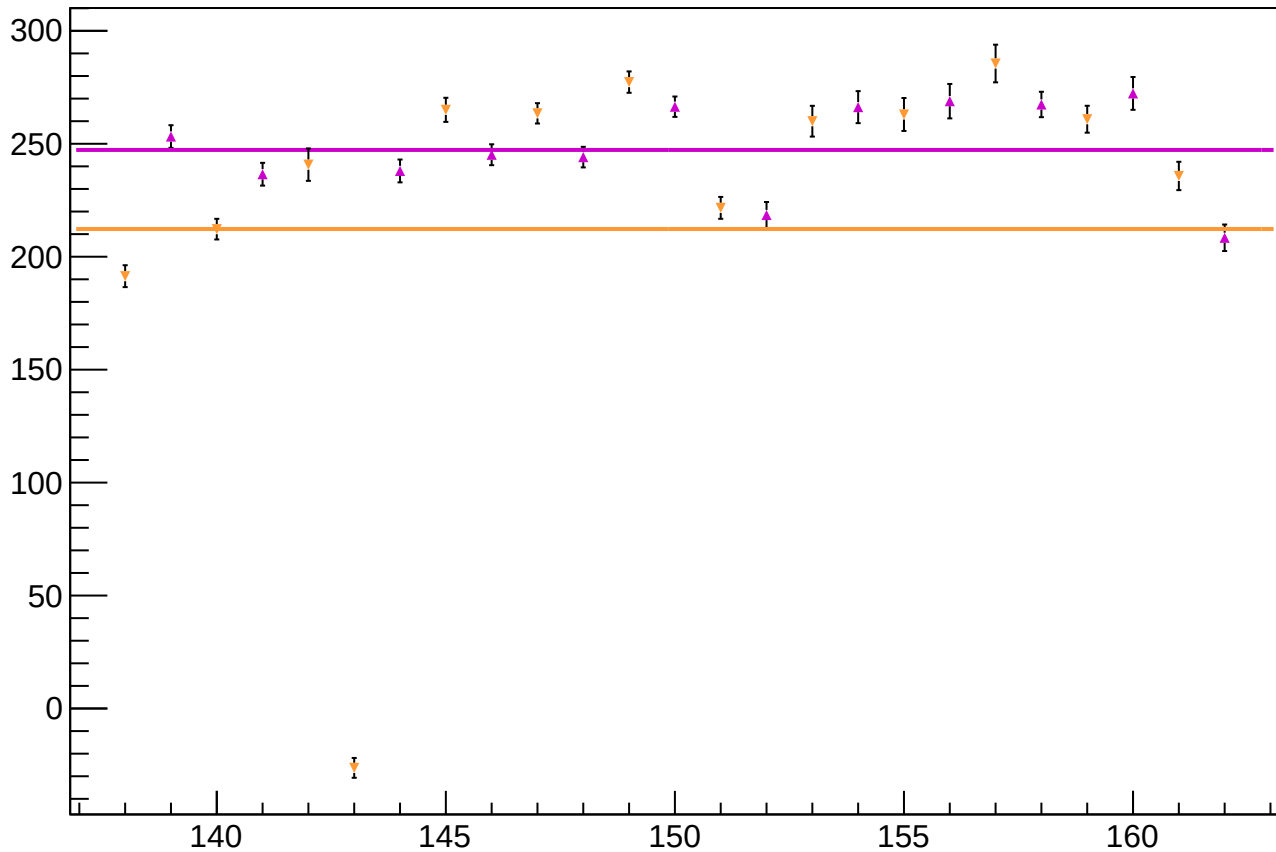
Left In:  $-162.143 \pm 0.067$   $\chi^2/\text{NDF}: 59452.7/11$

+ sign  $-135.800 \pm 0.051$   $\chi^2/\text{NDF}: 689146.4/29$

All:  $-135.924 \pm 0.035$   $\chi^2/\text{NDF}: 1390926.4/59$

- sign  $-136.043 \pm 0.049$   $\chi^2/\text{NDF}: 701768.1/29$

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 212.266+/-1.505  $\chi^2/\text{NDF}$ : 3655.5/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

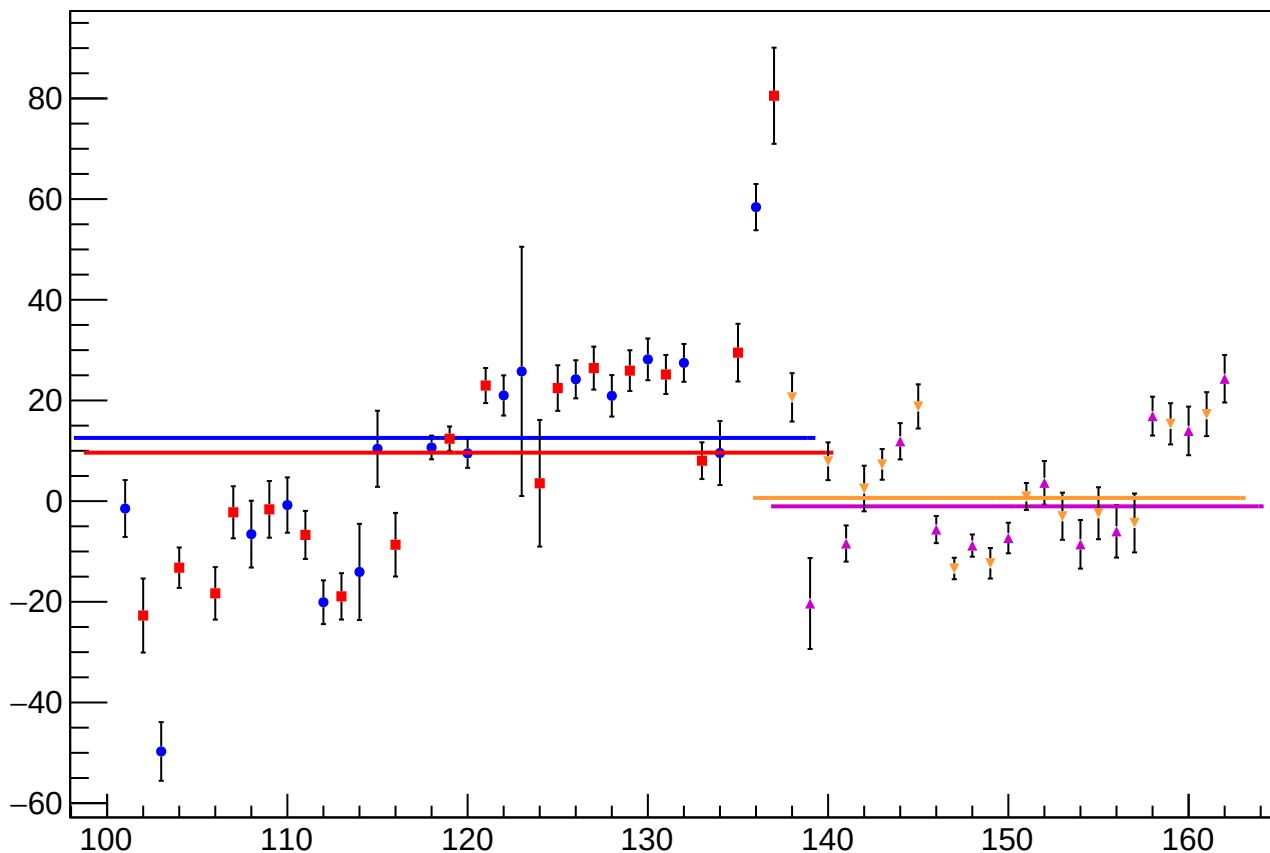
Left In: 247.275+/-1.563  $\chi^2/\text{NDF}$ : 136.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 229.105+/-1.084  $\chi^2/\text{NDF}$ : 4052.7/24

- 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:  $0.641 \pm 0.992$   $\chi^2/\text{NDF}$ : 133.9/12

Right Out:  $9.631 \pm 1.049$   $\chi^2/\text{NDF}$ : 287.5/17

Left In:  $-1.034 \pm 1.051$   $\chi^2/\text{NDF}$ : 105.8/11

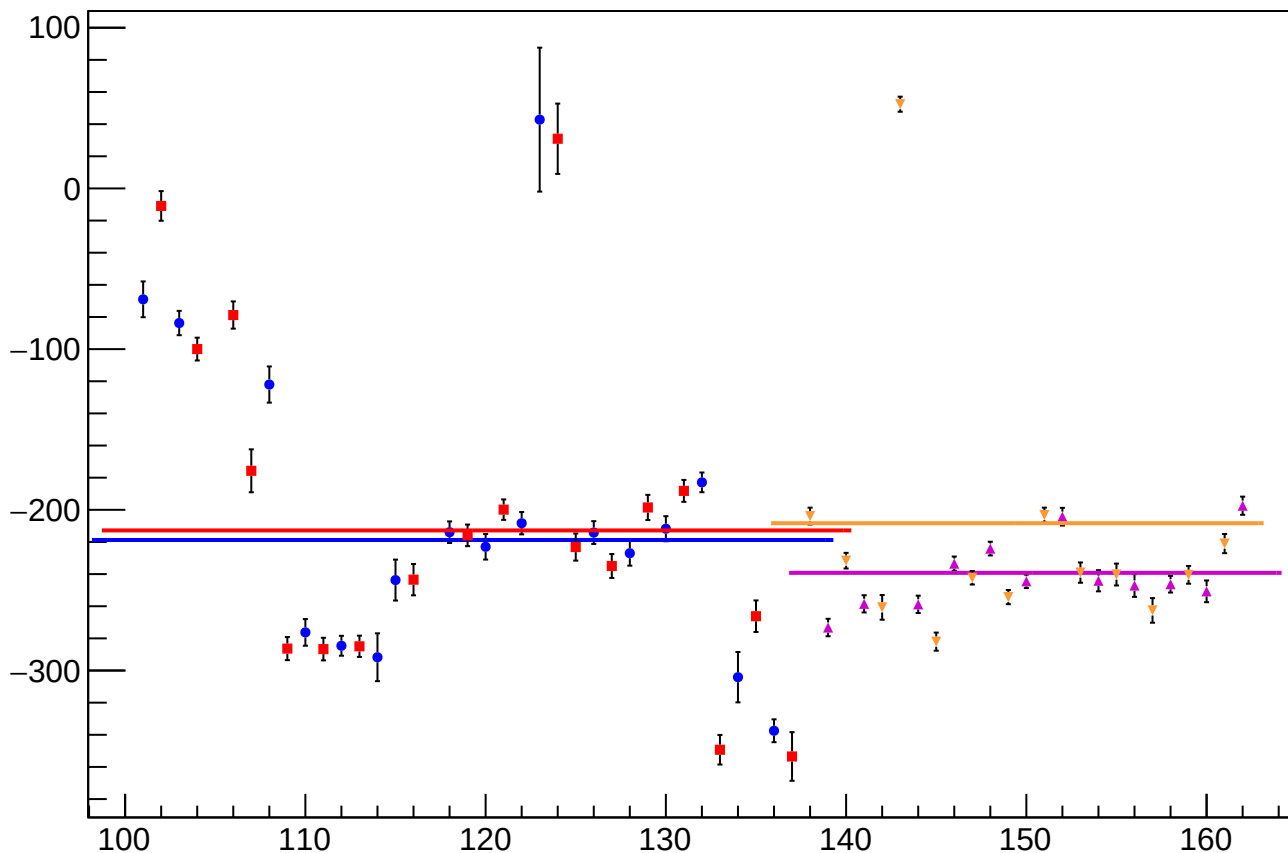
+ sign  $6.221 \pm 0.724$   $\chi^2/\text{NDF}$ : 550.0/29

All:  $5.290 \pm 0.518$   $\chi^2/\text{NDF}$ : 998.2/59

- sign  $4.309 \pm 0.743$   $\chi^2/\text{NDF}$ : 444.8/29



# 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:  $-208.320 \pm 1.488$   $\chi^2/\text{NDF}: 3642.9/12$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

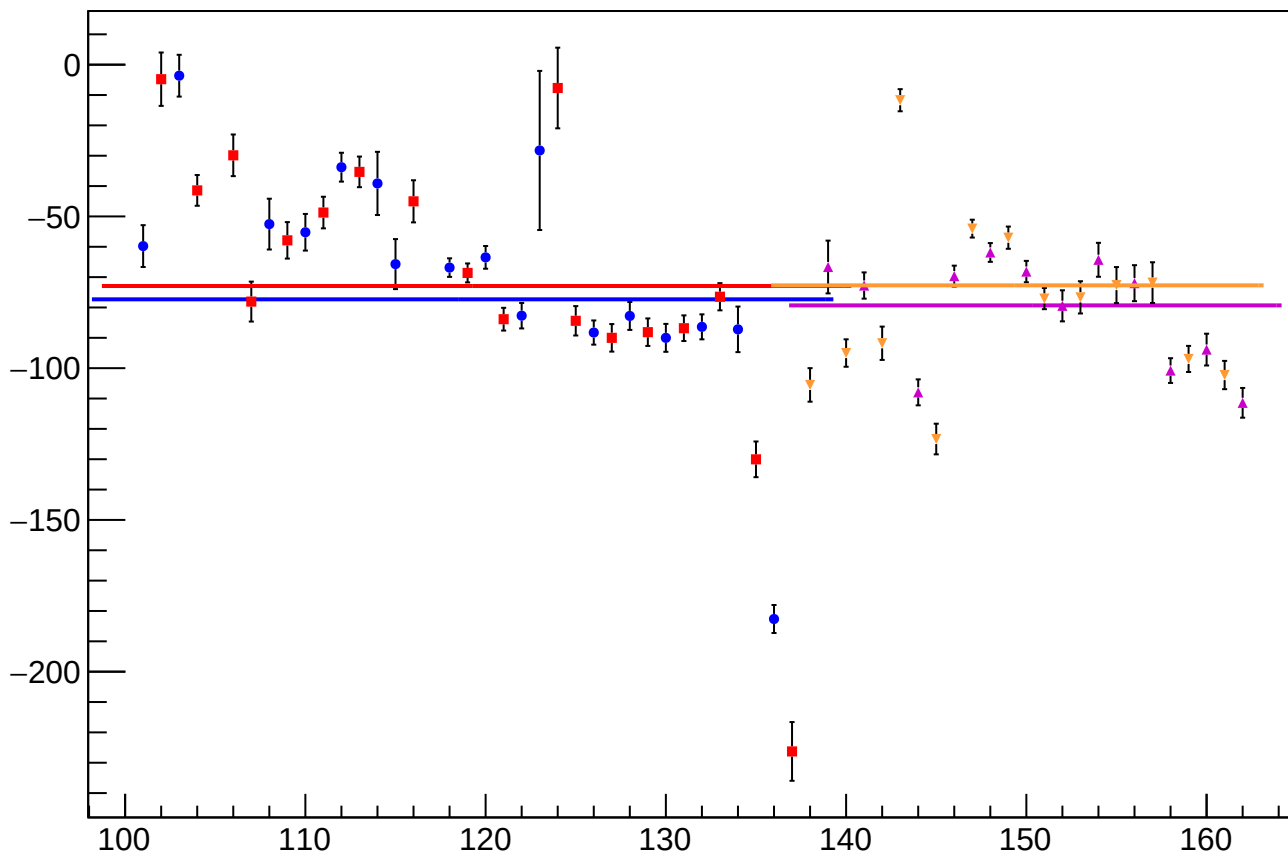
Left In:  $-239.218 \pm 1.522$   $\chi^2/\text{NDF}: 182.5/11$

+ sign  $-212.020 \pm 1.196$   $\chi^2/\text{NDF}: 4804.7/29$

All:  $-220.558 \pm 0.845$   $\chi^2/\text{NDF}: 7029.1/59$

- sign  $-229.069 \pm 1.194$   $\chi^2/\text{NDF}: 2122.7/29$

# 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:  $-72.714 \pm 1.205$   $\chi^2/\text{NDF}$ : 585.6/12

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

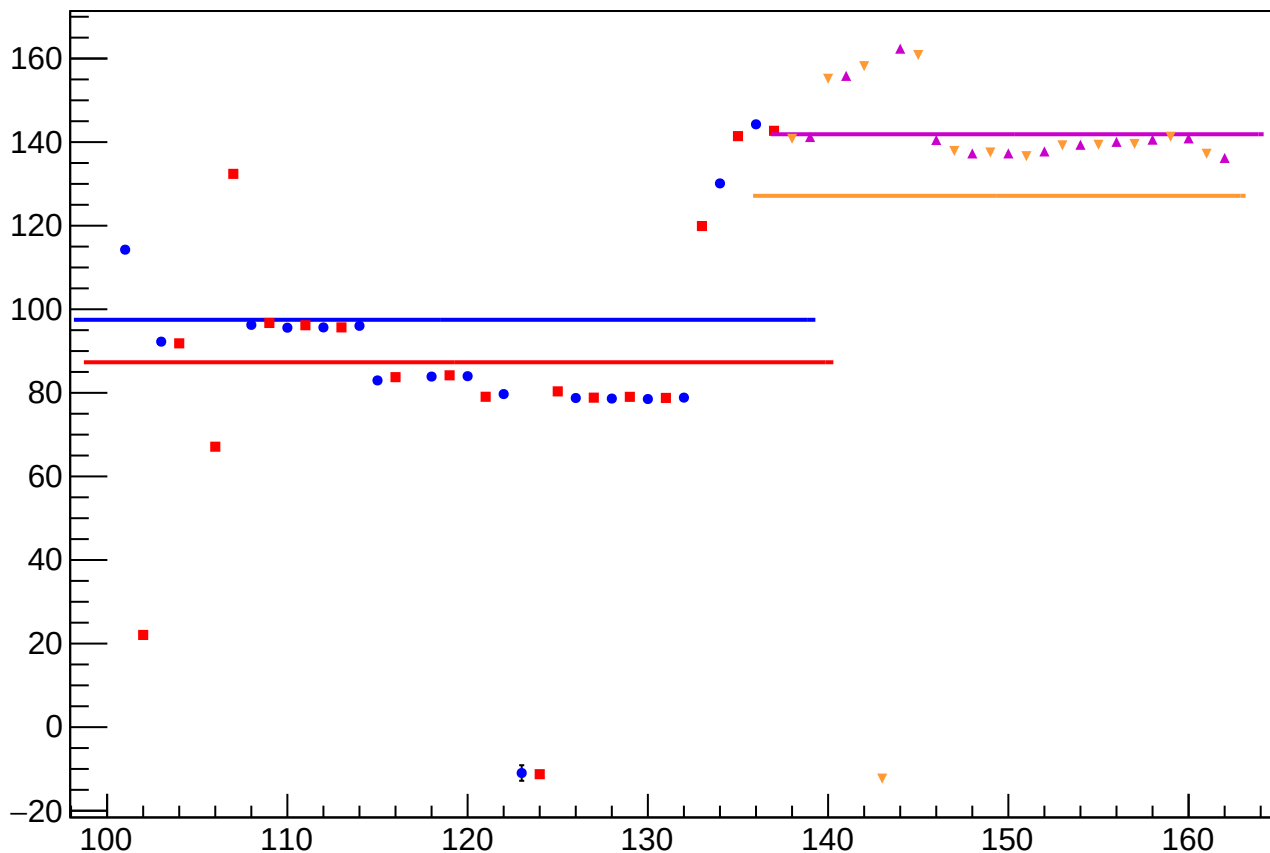
Left In:  $-79.311 \pm 1.263$   $\chi^2/\text{NDF}$ : 186.1/11

+ sign  $-74.985 \pm 0.858$   $\chi^2/\text{NDF}$ : 1410.5/29

All:  $-75.472 \pm 0.612$   $\chi^2/\text{NDF}$ : 2271.4/59

- sign  $-75.975 \pm 0.873$   $\chi^2/\text{NDF}$ : 860.2/29

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.483+/-0.073  $\chi^2/\text{NDF}$ : 94392.9/16

Left Out: 127.152+/-0.060  $\chi^2/\text{NDF}$ : 626903.9/12

Right Out: 87.318+/-0.068  $\chi^2/\text{NDF}$ : 221863.6/17

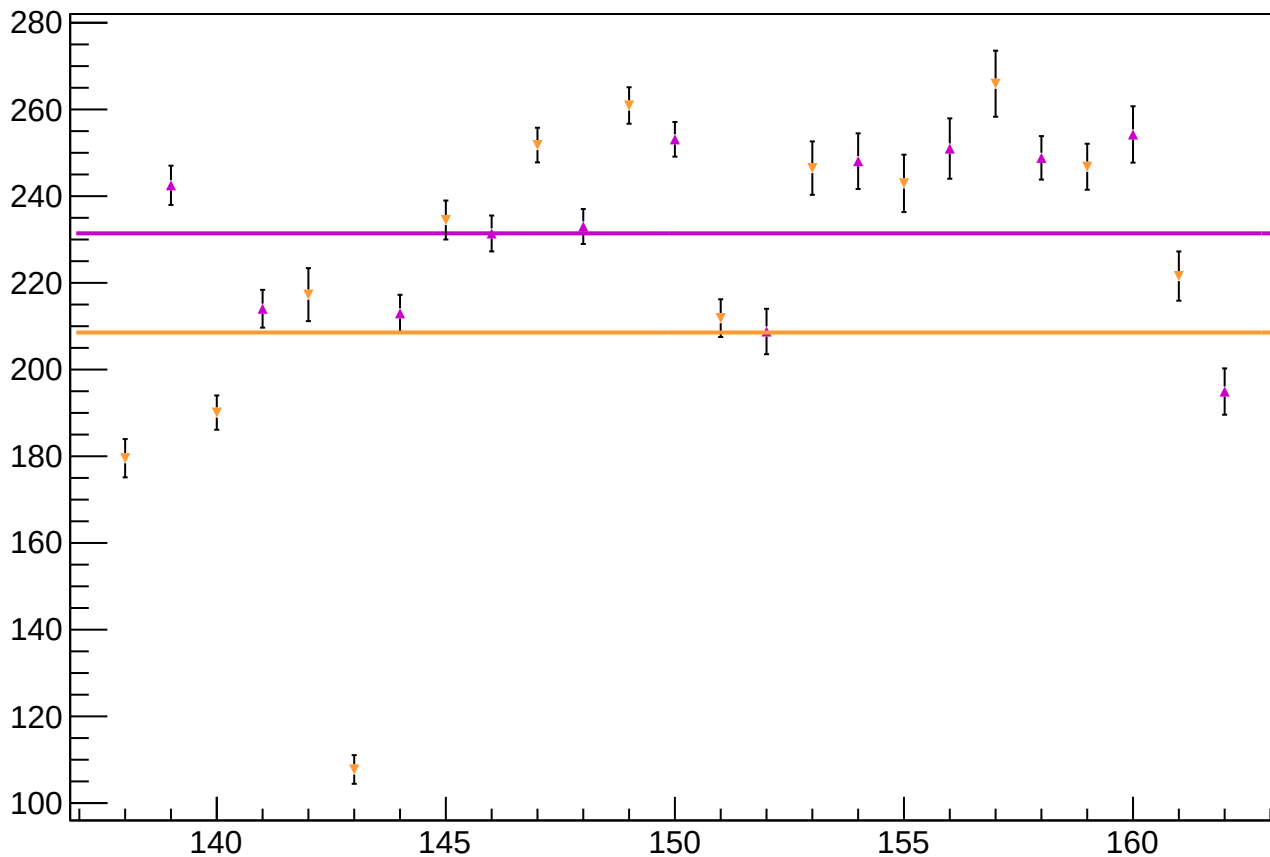
Left In: 141.882+/-0.060  $\chi^2/\text{NDF}$ : 14232.4/11

+ sign 115.315+/-0.046  $\chi^2/\text{NDF}$ : 819587.0/29

All: 116.671+/-0.032  $\chi^2/\text{NDF}$ : 1415392.8/59

- sign 117.964+/-0.045  $\chi^2/\text{NDF}$ : 594131.8/29

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: 208.550+/-1.304  $\chi^2/\text{NDF}$ :1481.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

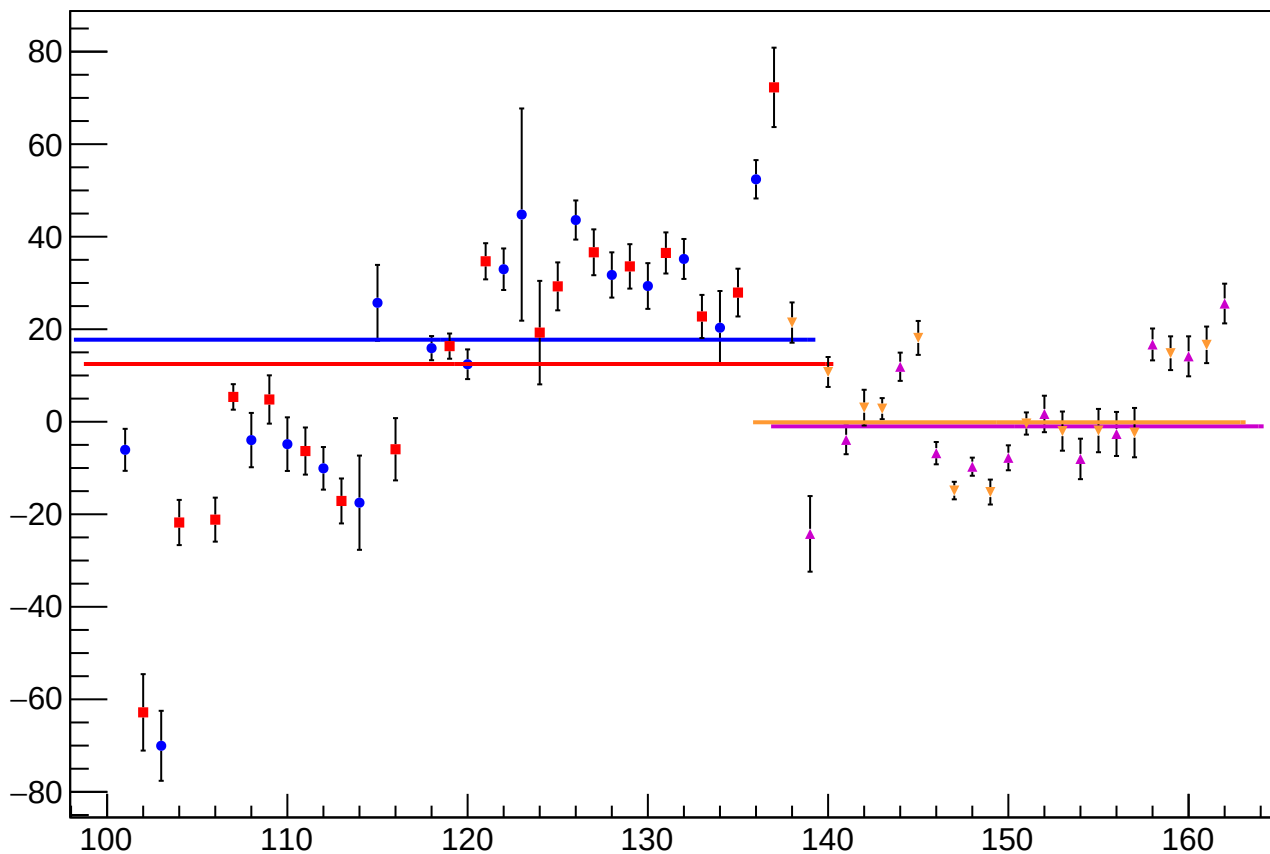
Left In: 231.430+/-1.389  $\chi^2/\text{NDF}$ :174.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.268+/-0.951  $\chi^2/\text{NDF}$ : 1799.5/24

- 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:  $17.737 \pm 1.149$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-0.115 \pm 0.861$   $\chi^2/\text{NDF}$ : 190.2/12

Right Out:  $12.484 \pm 1.085$   $\chi^2/\text{NDF}$ : 429.2/17

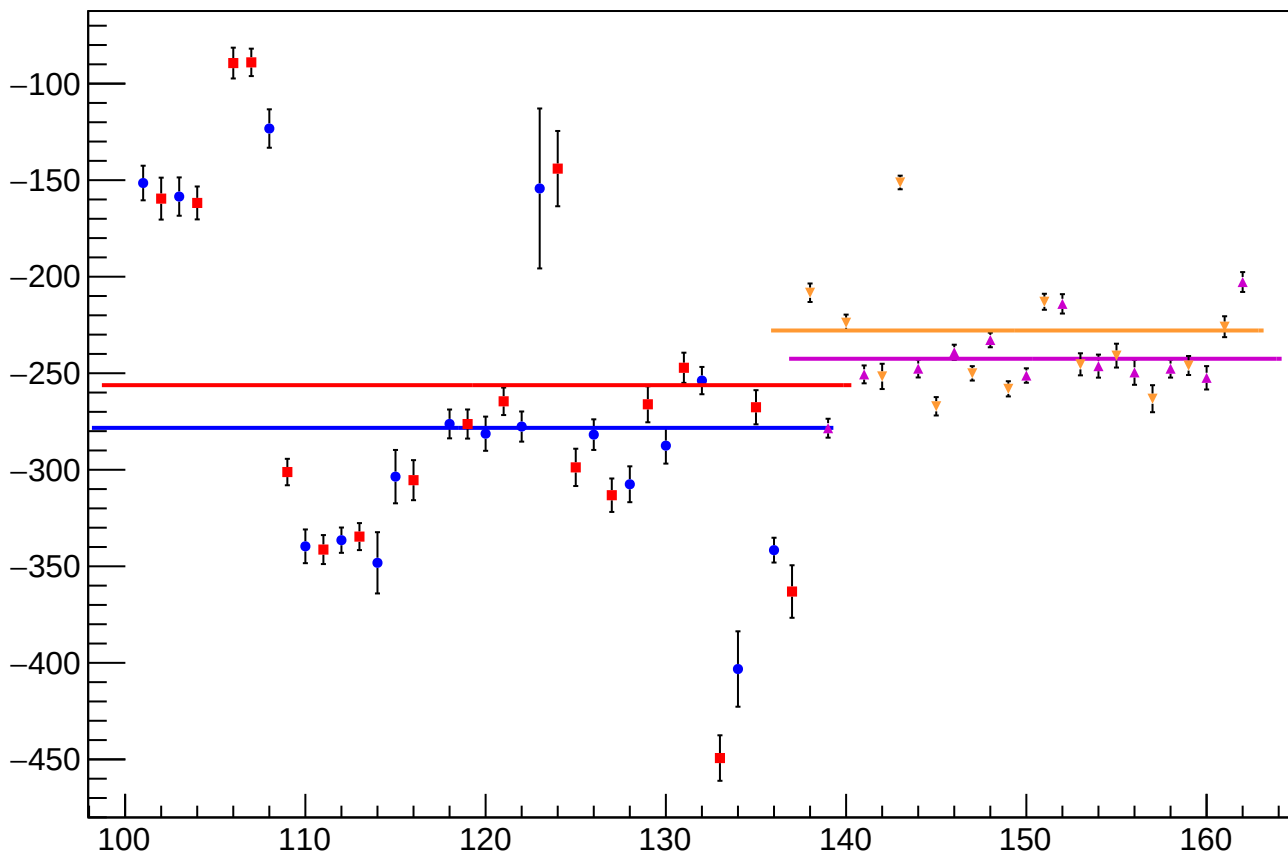
Left In:  $-0.992 \pm 0.933$   $\chi^2/\text{NDF}$ : 138.8/11

+ sign  $6.309 \pm 0.689$   $\chi^2/\text{NDF}$ : 738.8/29

All:  $5.543 \pm 0.494$   $\chi^2/\text{NDF}$ : 1398.0/59

- sign  $4.735 \pm 0.707$   $\chi^2/\text{NDF}$ : 656.7/29

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:  $-227.861 \pm 1.296$   $\chi^2/\text{NDF}$ : 731.8/12

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}$ : 1952.2/17

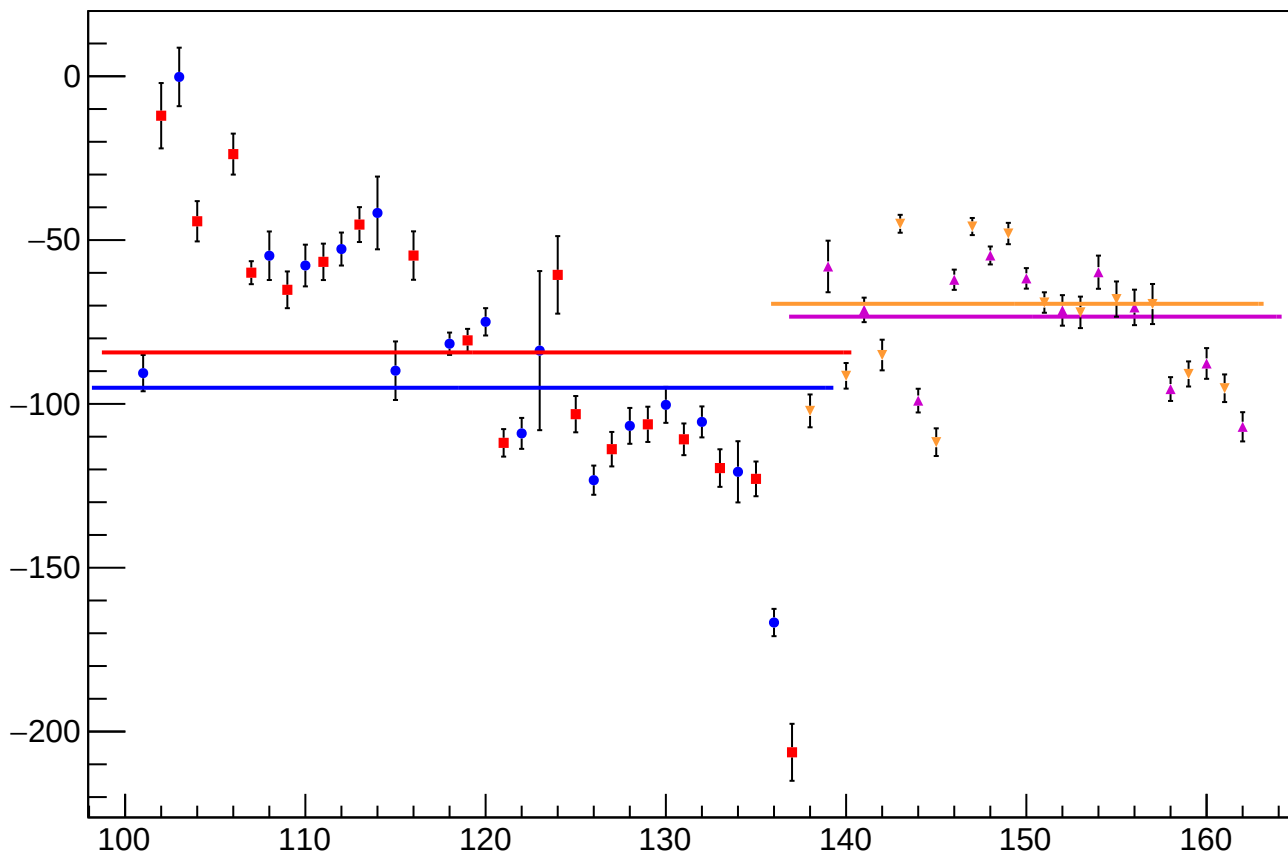
Left In:  $-242.502 \pm 1.355$   $\chi^2/\text{NDF}$ : 168.2/11

+ sign  $-241.103 \pm 1.113$   $\chi^2/\text{NDF}$ : 2039.3/29

All:  $-243.885 \pm 0.792$   $\chi^2/\text{NDF}$ : 4203.9/59

- sign  $-246.732 \pm 1.126$   $\chi^2/\text{NDF}$ : 2151.9/29

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:  $-69.448 \pm 1.046$   $\chi^2/\text{NDF}$ : 459.2/12

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

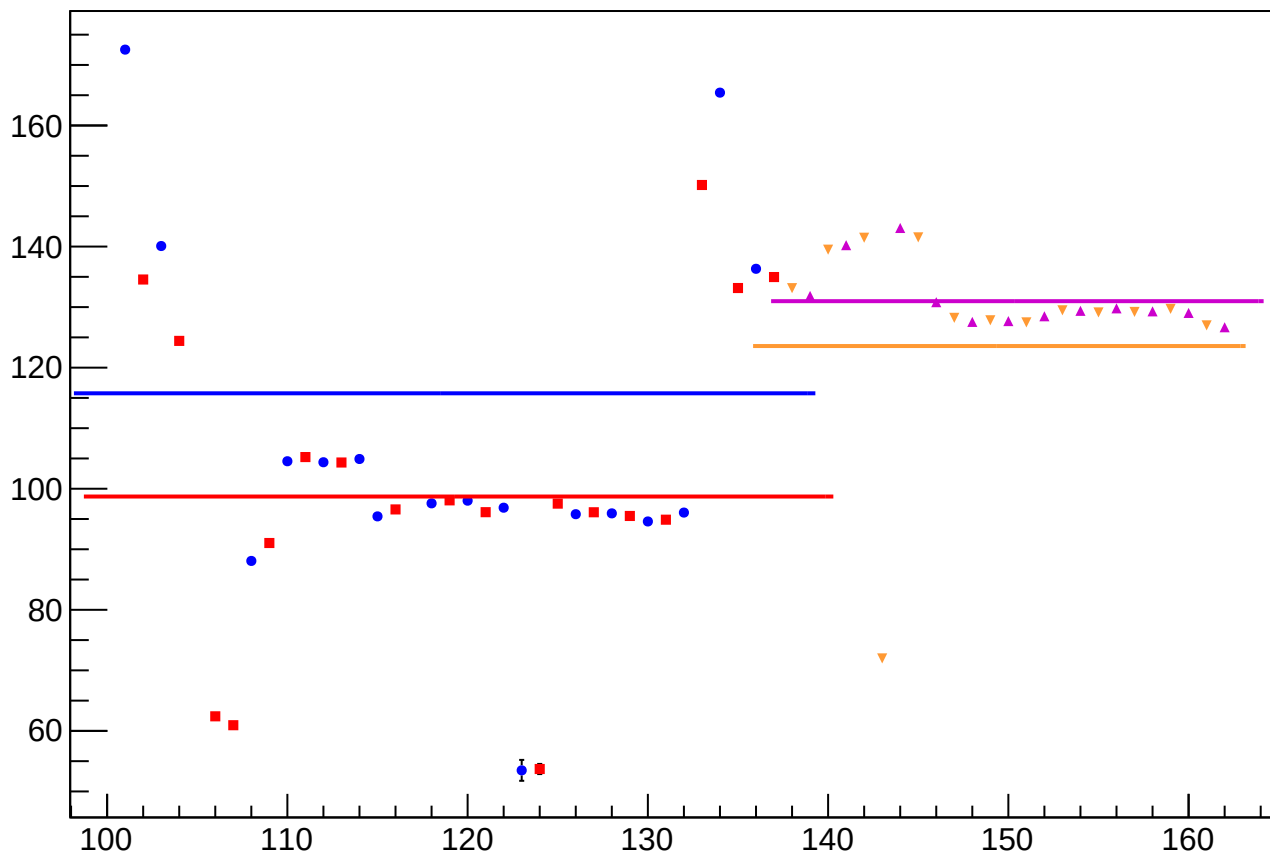
Left In:  $-73.368 \pm 1.122$   $\chi^2/\text{NDF}$ : 238.6/11

+ sign  $-79.286 \pm 0.821$   $\chi^2/\text{NDF}$ : 1362.7/29

All:  $-78.755 \pm 0.586$   $\chi^2/\text{NDF}$ : 2413.0/59

- sign  $-78.203 \pm 0.837$   $\chi^2/\text{NDF}$ : 1049.4/29

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:  $123.570 \pm 0.052$   $\chi^2/\text{NDF}: 161487.1/12$

Right Out:  $98.713 \pm 0.069$   $\chi^2/\text{NDF}: 170183.8/17$

Left In:  $130.981 \pm 0.054$   $\chi^2/\text{NDF}: 7865.2/11$

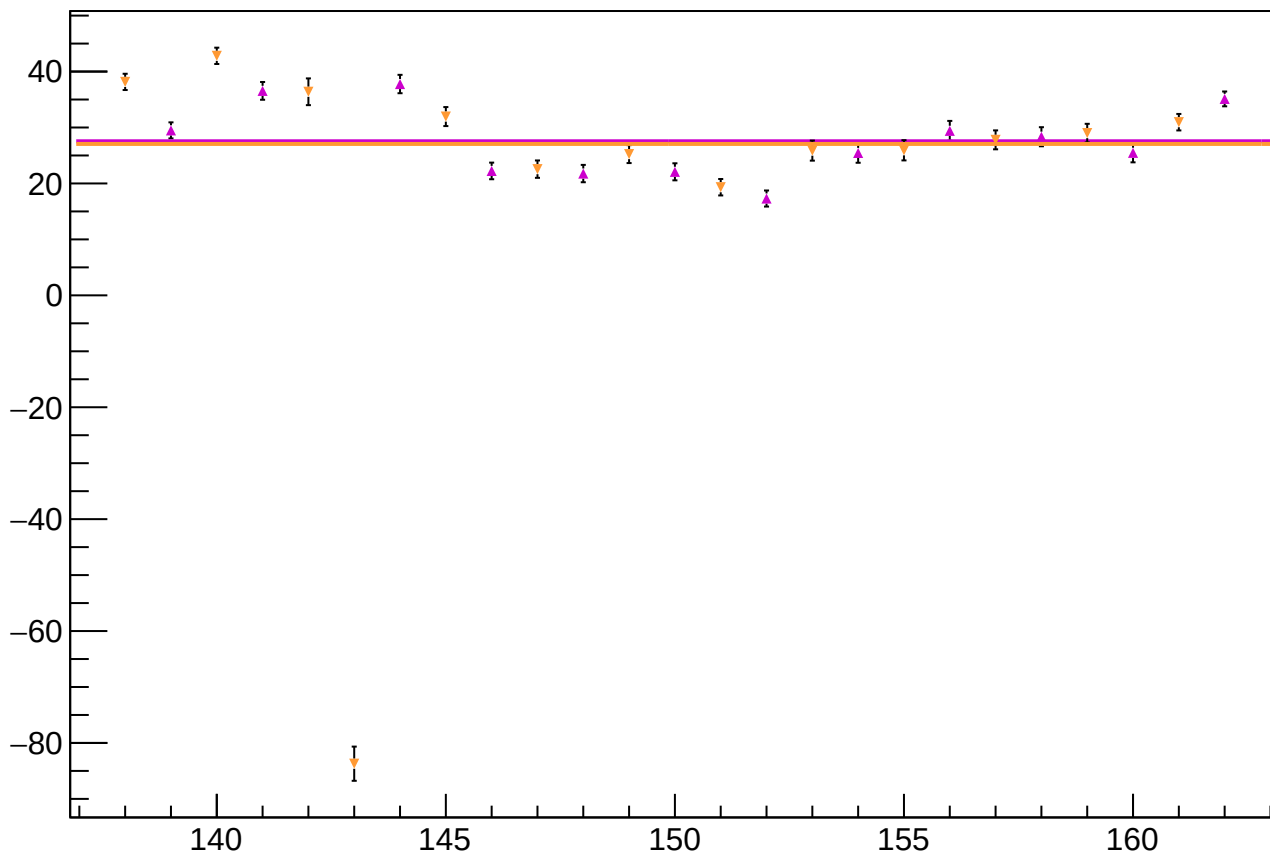
+ sign  $121.162 \pm 0.043$   $\chi^2/\text{NDF}: 274697.2/29$

All:  $119.903 \pm 0.030$   $\chi^2/\text{NDF}: 591009.6/59$

- sign  $118.701 \pm 0.042$   $\chi^2/\text{NDF}: 314666.6/29$



reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 27.062 $\pm$ 0.465  $\chi^2/\text{NDF}$ :1559.3/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

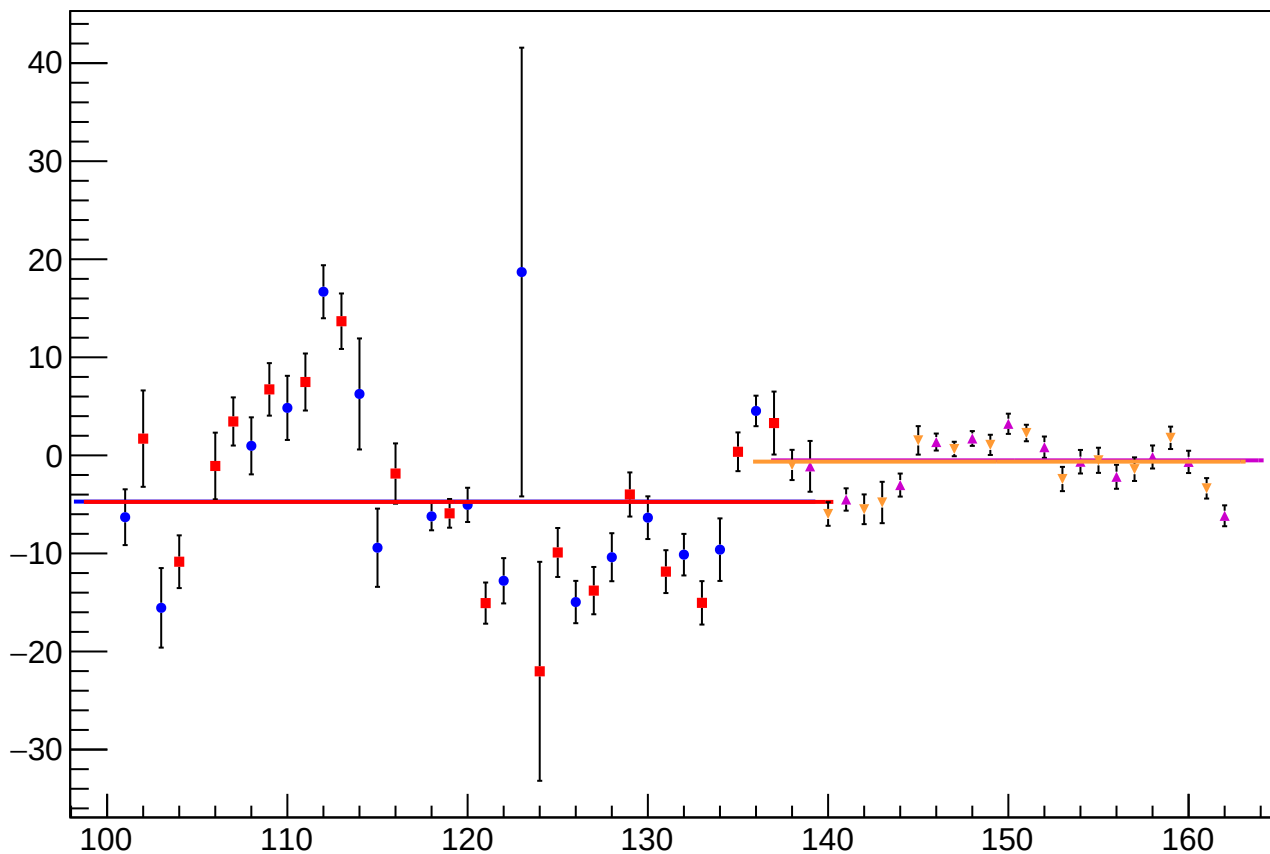
Left In: 27.537 $\pm$ 0.450  $\chi^2/\text{NDF}$ :200.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.307 $\pm$ 0.323  $\chi^2/\text{NDF}$ : 1759.8/24

- sign 0.000 $\pm$ 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:  $-0.637 \pm 0.315$   $\chi^2/\text{NDF}$ : 67.8/12

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

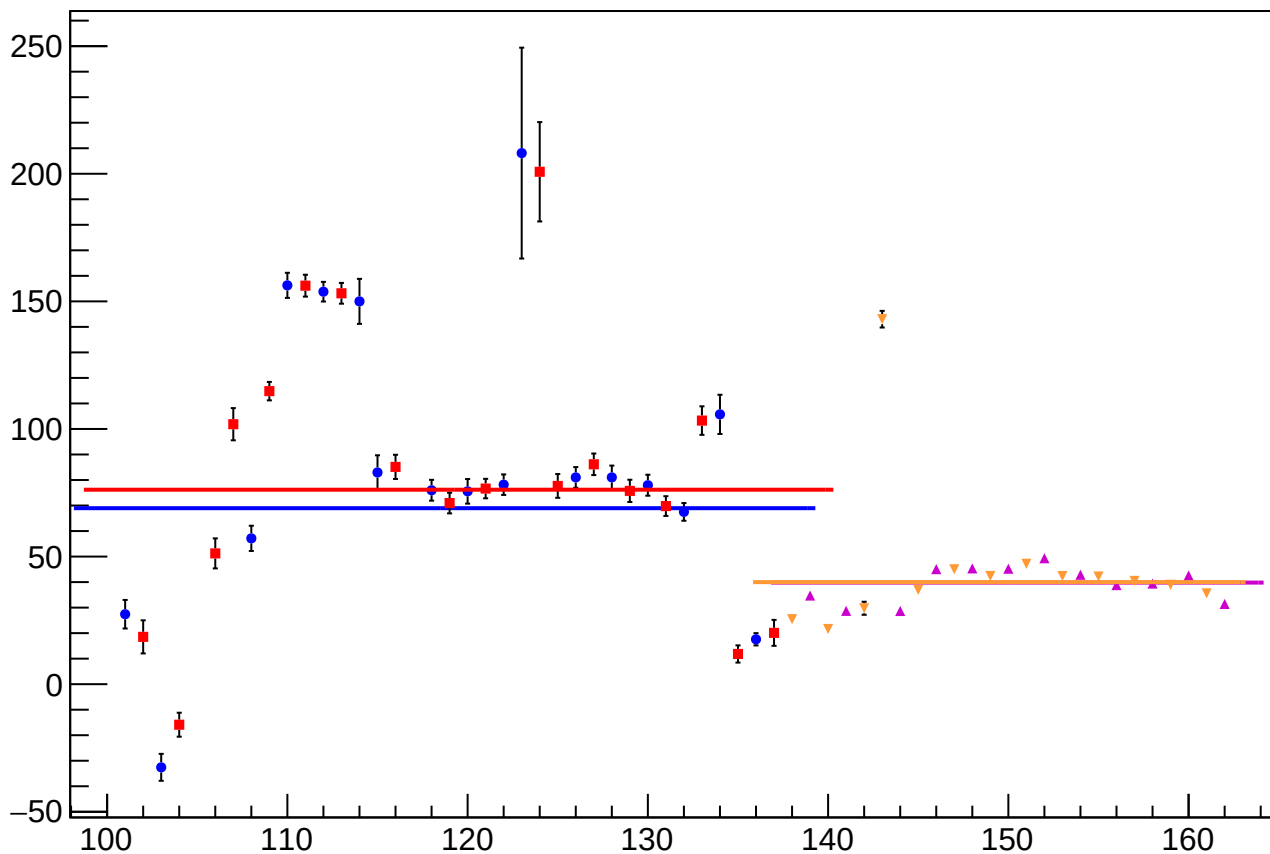
Left In:  $-0.508 \pm 0.312$   $\chi^2/\text{NDF}$ : 75.1/11

+ sign  $-1.564 \pm 0.277$   $\chi^2/\text{NDF}$ : 280.5/29

All:  $-1.505 \pm 0.195$   $\chi^2/\text{NDF}$ : 585.8/59

- sign  $-1.446 \pm 0.275$   $\chi^2/\text{NDF}$ : 305.2/29

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:  $39.984 \pm 0.454$   $\chi^2/\text{NDF}$ : 1297.8/12

Right Out:  $76.199 \pm 1.071$   $\chi^2/\text{NDF}$ : 1881.0/17

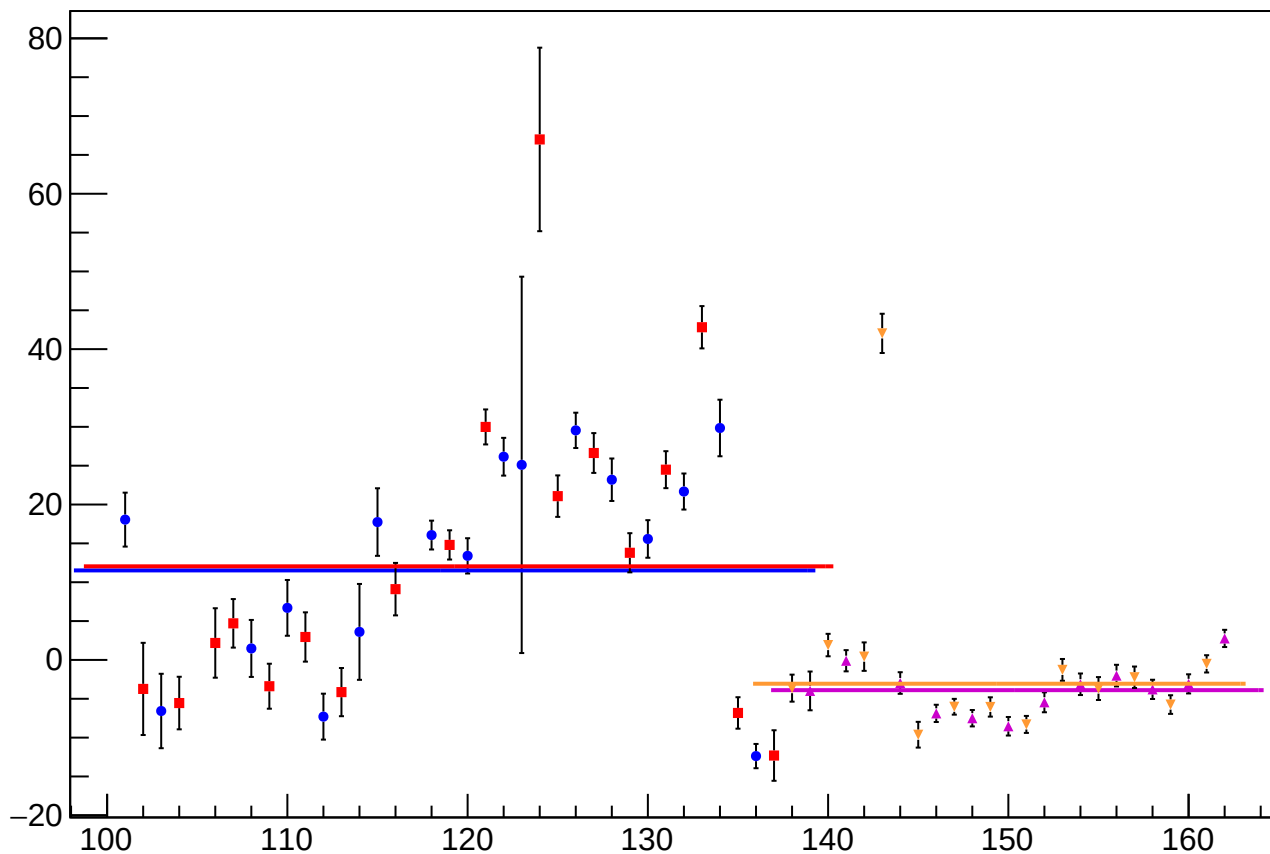
Left In:  $39.800 \pm 0.437$   $\chi^2/\text{NDF}$ : 235.1/11

+ sign  $44.339 \pm 0.418$   $\chi^2/\text{NDF}$ : 3754.7/29

All:  $44.675 \pm 0.291$   $\chi^2/\text{NDF}$ : 6862.4/59

- sign  $44.989 \pm 0.404$   $\chi^2/\text{NDF}$ : 3106.5/29

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.521 $\pm$ 0.660  $\chi^2$ /NDF: 477.2/16

Left Out: -3.064 $\pm$ 0.376  $\chi^2$ /NDF: 399.8/12

Right Out: 12.046 $\pm$ 0.665  $\chi^2$ /NDF: 538.7/17

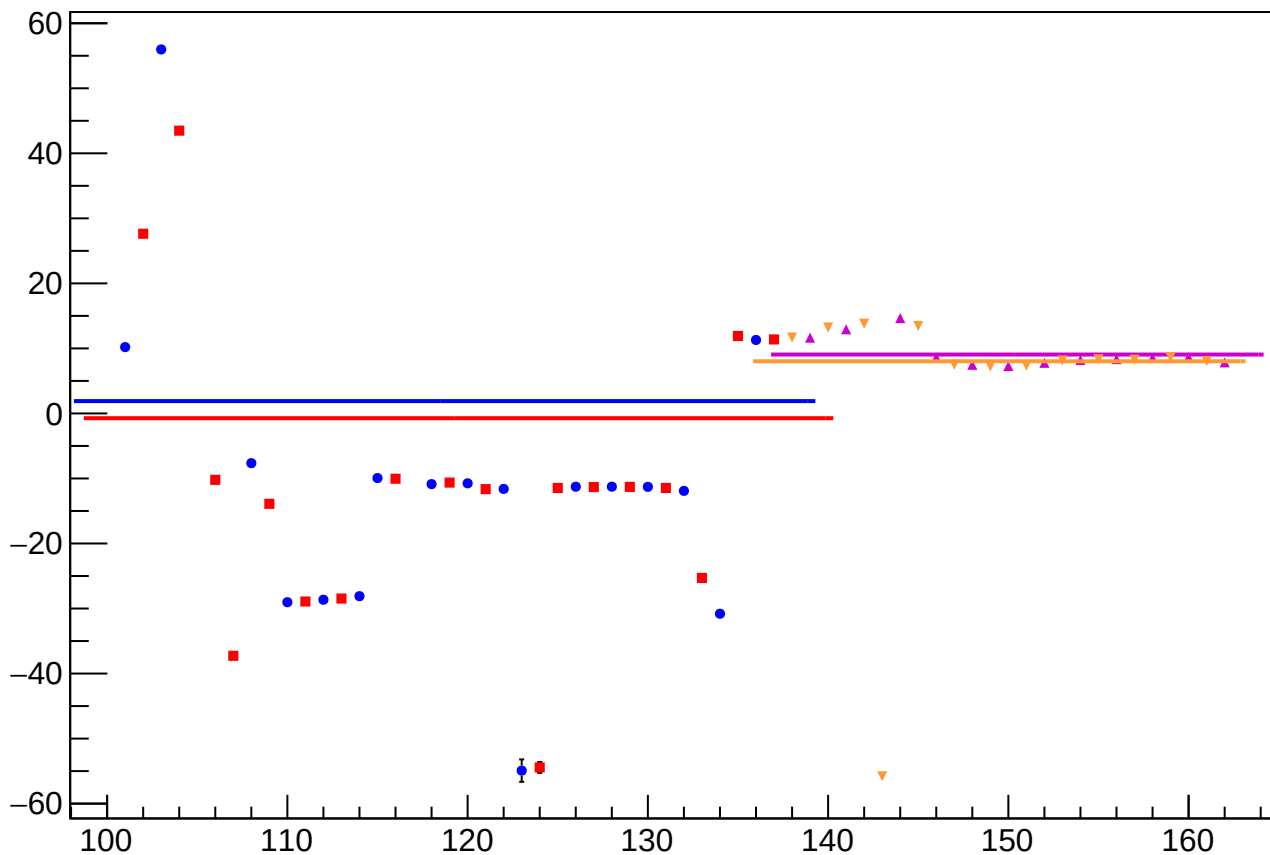
Left In: -3.891 $\pm$ 0.368  $\chi^2$ /NDF: 82.4/11

+ sign 0.510 $\pm$ 0.327  $\chi^2$ /NDF: 1245.9/29

All: 0.173 $\pm$ 0.229  $\chi^2$ /NDF: 2309.4/59

- sign -0.154 $\pm$ 0.322  $\chi^2$ /NDF: 1061.4/29

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $1.896 \pm 0.037$   $\chi^2/\text{NDF}$ : 358855.7/16

Left Out:  $8.019 \pm 0.018$   $\chi^2/\text{NDF}$ : 256452.7/12

Right Out:  $-0.733 \pm 0.037$   $\chi^2/\text{NDF}$ : 359934.4/17

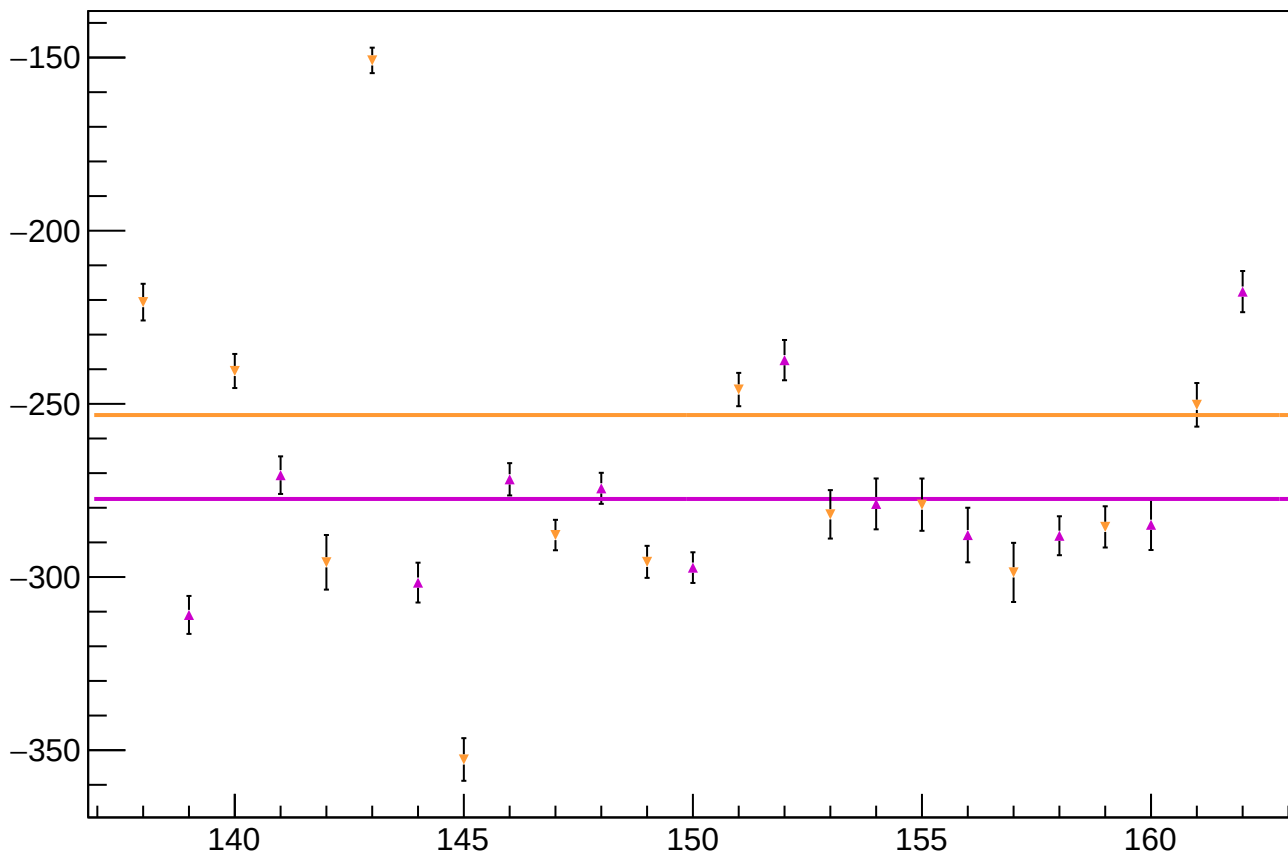
Left In:  $9.058 \pm 0.017$   $\chi^2/\text{NDF}$ : 13980.8/11

+ sign  $6.883 \pm 0.016$   $\chi^2/\text{NDF}$ : 637562.5/29

All:  $7.130 \pm 0.011$   $\chi^2/\text{NDF}$ : 1069471.1/59

- sign  $7.361 \pm 0.015$   $\chi^2/\text{NDF}$ : 431445.2/29

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: -253.227+/-1.507  $\chi^2/\text{NDF}$ :1345.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

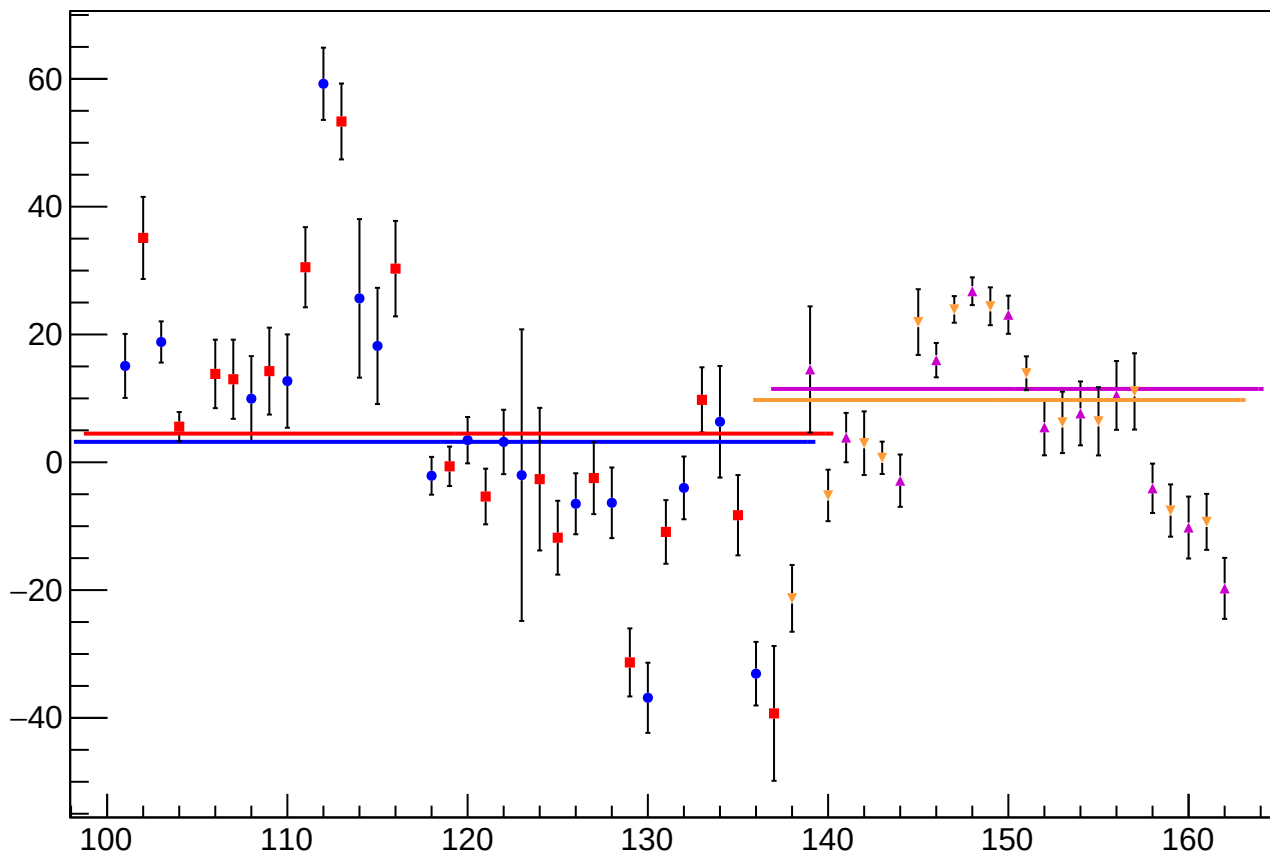
Left In: -277.458+/-1.607  $\chi^2/\text{NDF}$ :233.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -264.565+/-1.099  $\chi^2/\text{NDF}$ : 1700.6/24

- 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:  $9.749 \pm 0.981$   $\chi^2/\text{NDF}$ : 180.5/12

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}$ : 221.8/17

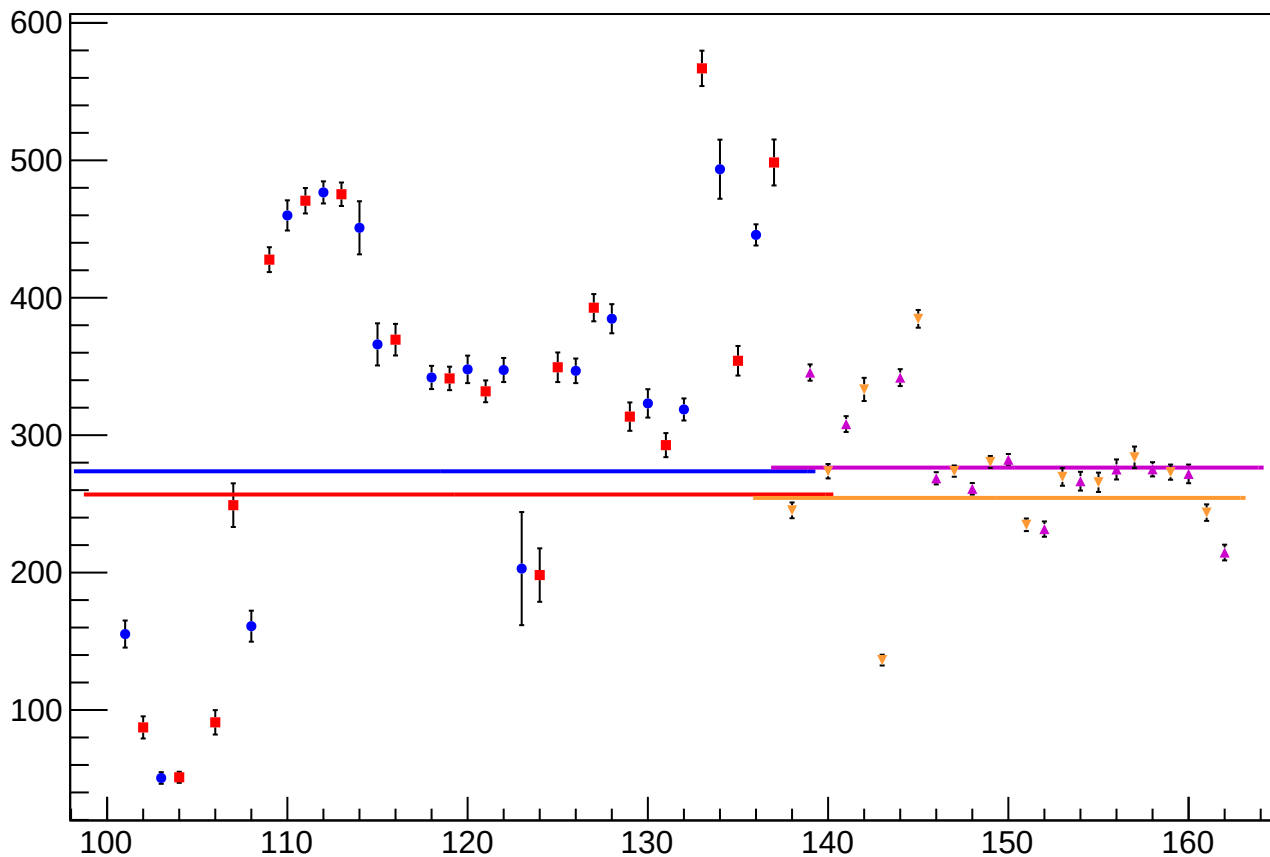
Left In:  $11.478 \pm 1.066$   $\chi^2/\text{NDF}$ : 165.3/11

+ sign  $7.195 \pm 0.766$   $\chi^2/\text{NDF}$ : 453.1/29

All:  $7.721 \pm 0.548$   $\chi^2/\text{NDF}$ : 860.8/59

- sign  $8.273 \pm 0.785$   $\chi^2/\text{NDF}$ : 406.8/29

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:  $254.354 \pm 1.489$   $\chi^2/\text{NDF}$ : 1531.9/12

Right Out:  $256.826 \pm 2.084$   $\chi^2/\text{NDF}$ : 6411.8/17

Left In:  $276.403 \pm 1.558$   $\chi^2/\text{NDF}$ : 481.5/11

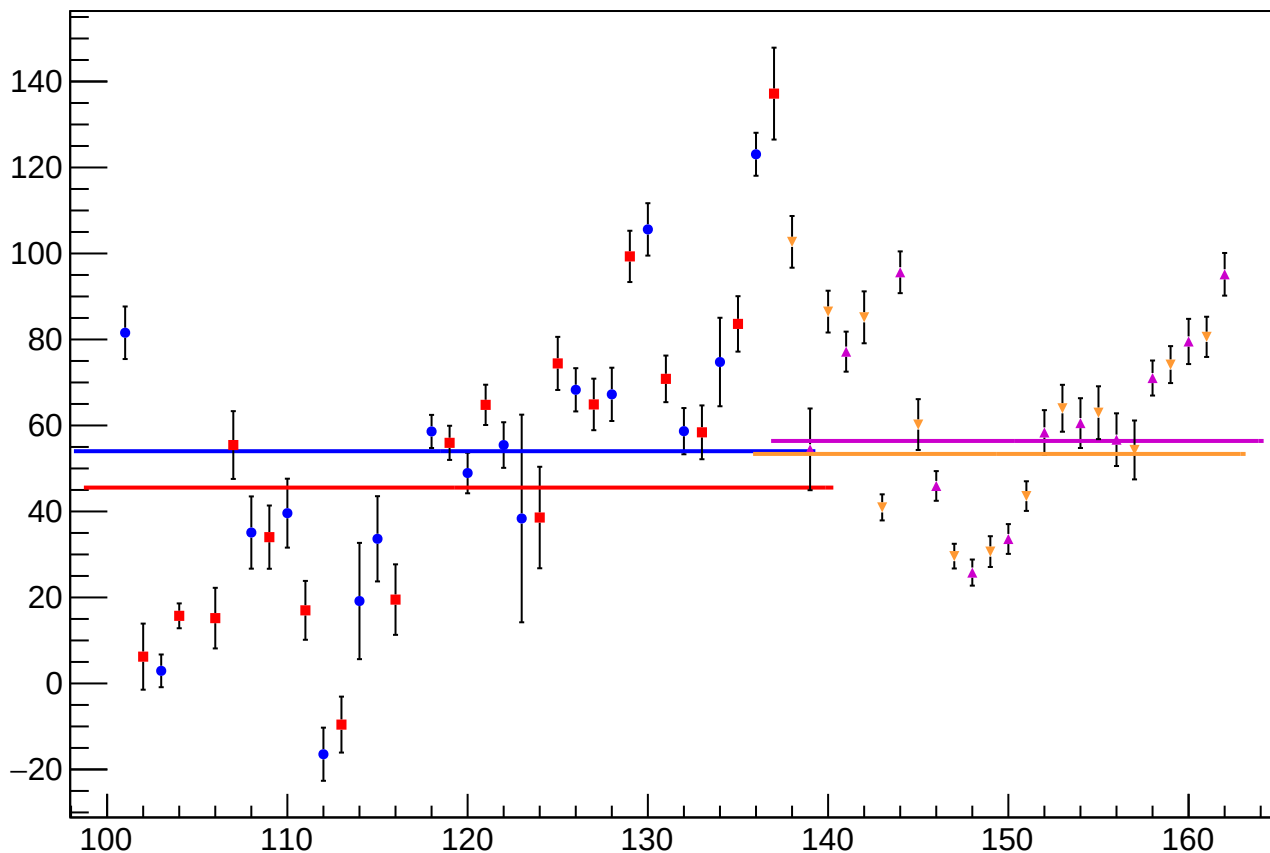
+ sign  $260.458 \pm 1.232$   $\chi^2/\text{NDF}$ : 6688.5/29

All:  $264.865 \pm 0.877$   $\chi^2/\text{NDF}$ : 13664.3/59

- sign  $269.384 \pm 1.248$   $\chi^2/\text{NDF}$ : 6949.9/29



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: 53.380 $\pm$ 1.196  $\chi^2$ /NDF: 339.8/12

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

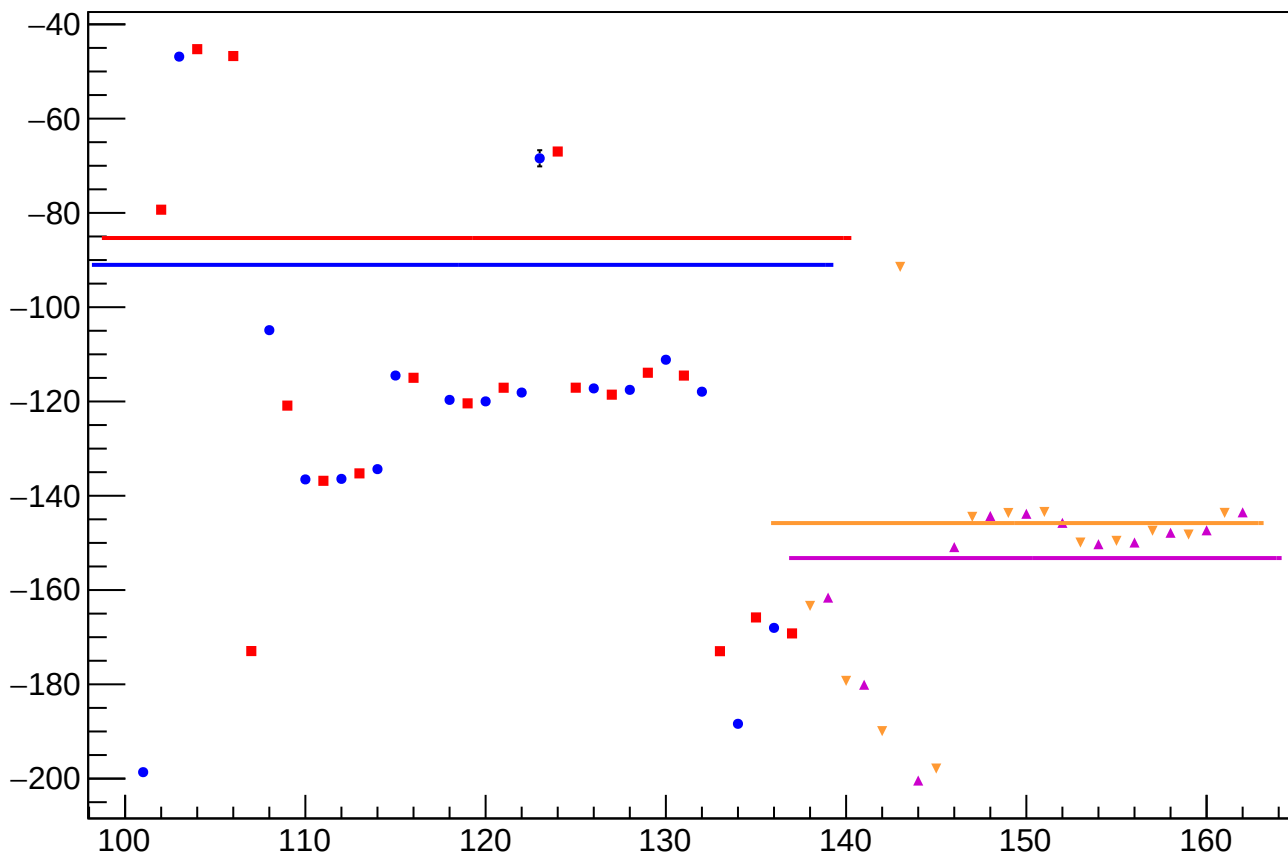
Left In: 56.398 $\pm$ 1.284  $\chi^2$ /NDF: 333.3/11

+ sign 53.643 $\pm$ 0.916  $\chi^2$ /NDF: 972.8/29

All: 52.483 $\pm$ 0.654  $\chi^2$ /NDF: 1869.7/59

- sign 51.278 $\pm$ 0.933  $\chi^2$ /NDF: 893.6/29

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: -145.794 $\pm$ 0.060  $\chi^2$ /NDF: 205559.4/12

Right Out: -85.325 $\pm$ 0.065  $\chi^2$ /NDF: 483106.3/17

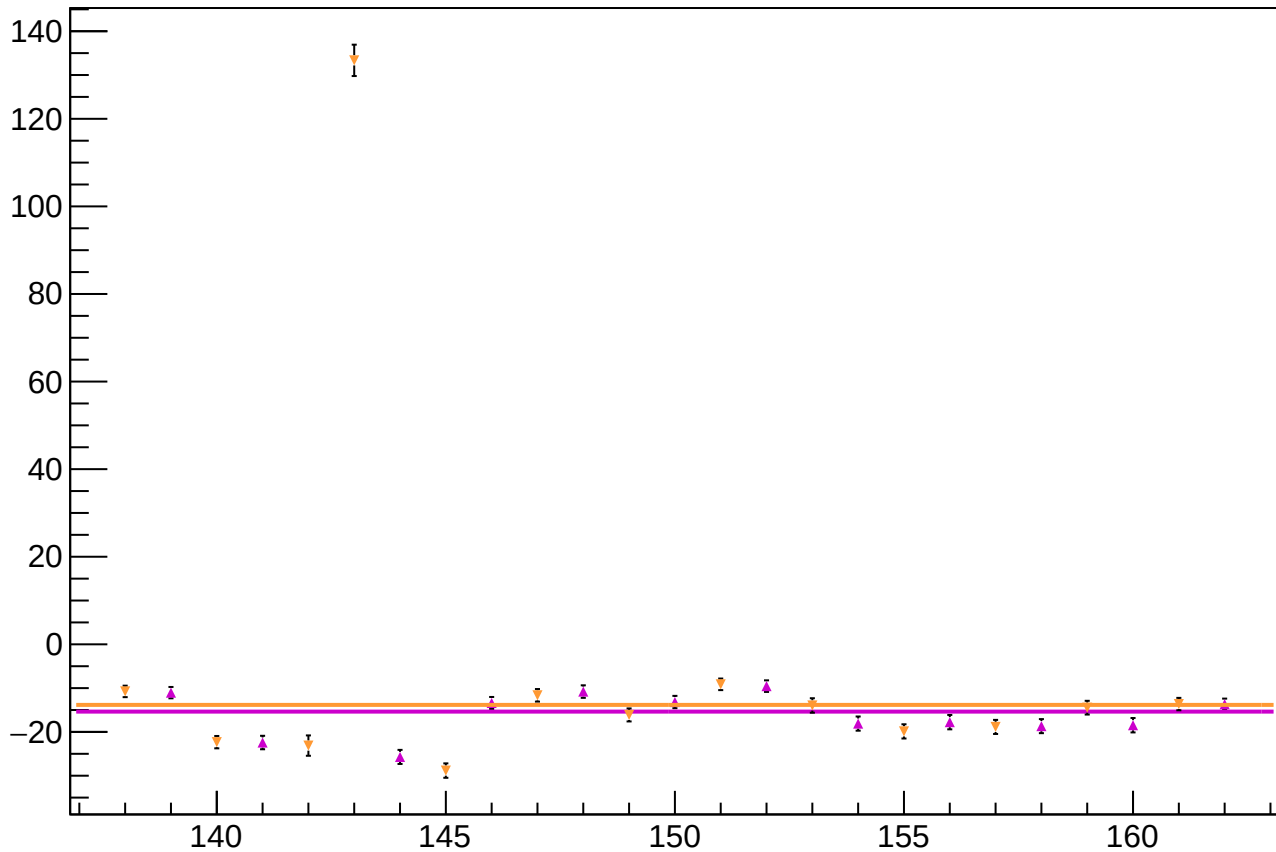
Left In: -153.216 $\pm$ 0.062  $\chi^2$ /NDF: 55647.3/11

+ sign -121.662 $\pm$ 0.045  $\chi^2$ /NDF: 1107270.2/29

All: -121.340 $\pm$ 0.032  $\chi^2$ /NDF: 2216830.7/59

- sign -121.019 $\pm$ 0.045  $\chi^2$ /NDF: 1109457.8/29

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: -13.830+/-0.436  $\chi^2/\text{NDF}$ : 1870.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

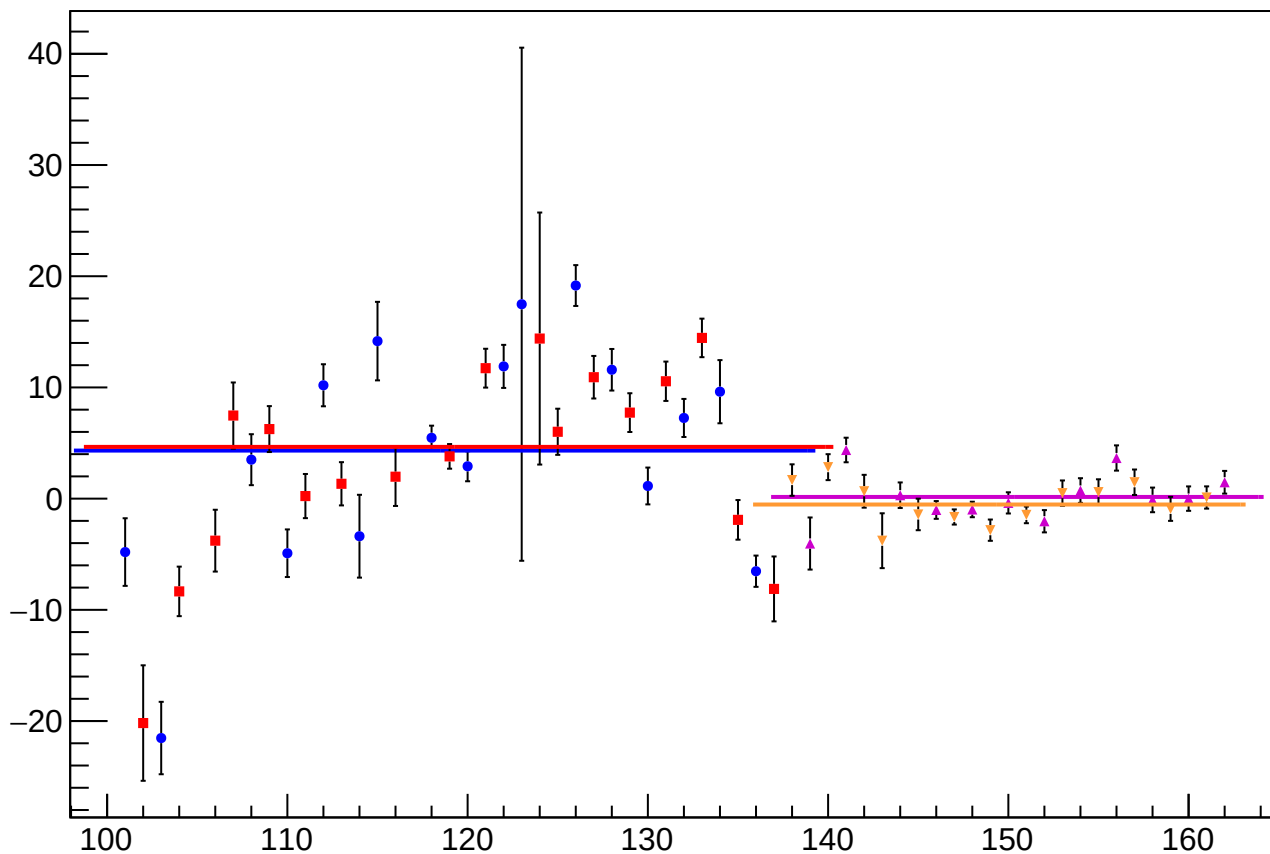
Left In: -15.364+/-0.421  $\chi^2/\text{NDF}$ : 122.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.623+/-0.303  $\chi^2/\text{NDF}$ : 1999.5/24

- 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:  $4.322 \pm 0.465$   $\chi^2/\text{NDF}: 280.3/16$

Left Out:  $-0.529 \pm 0.295$   $\chi^2/\text{NDF}: 28.9/12$

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}: 184.4/17$

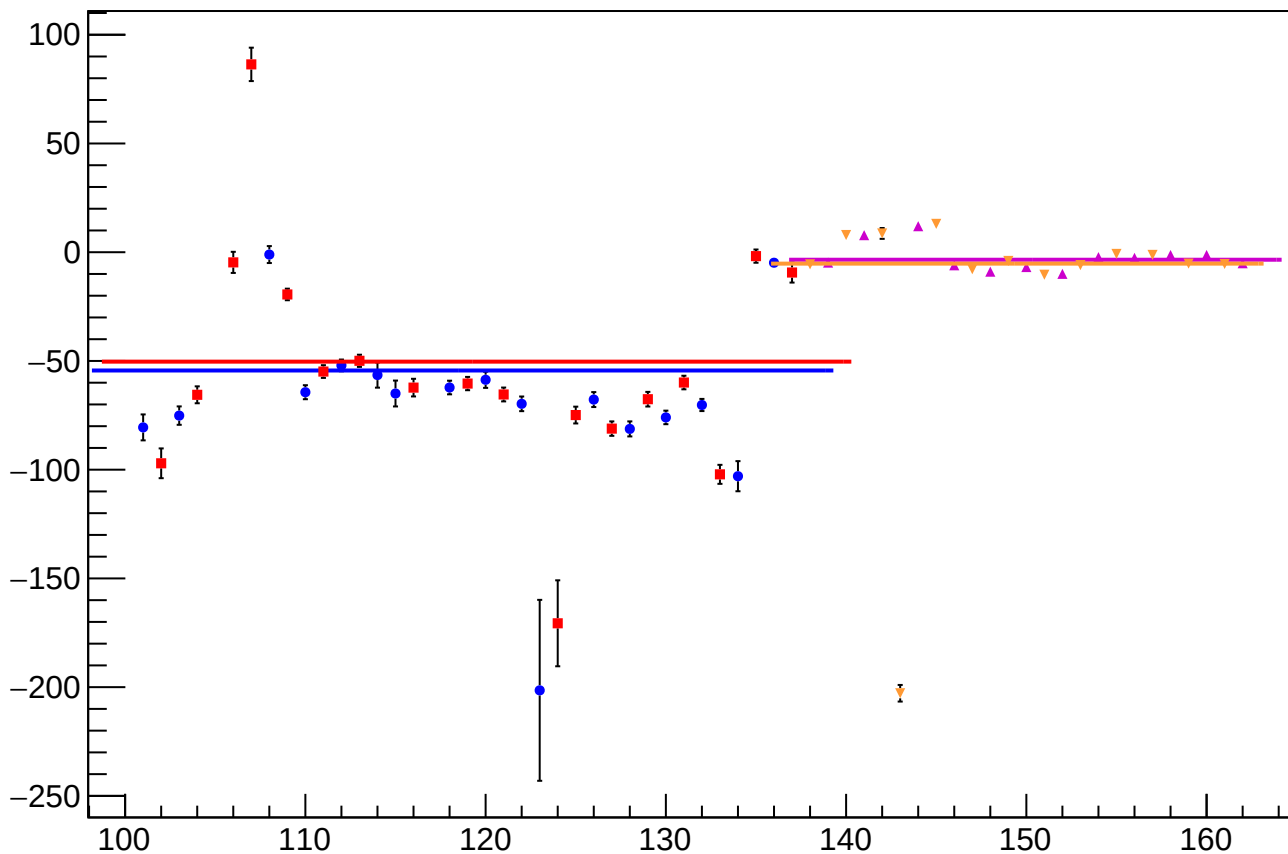
Left In:  $0.152 \pm 0.293$   $\chi^2/\text{NDF}: 39.2/11$

+ sign  $0.859 \pm 0.249$   $\chi^2/\text{NDF}: 386.8/29$

All:  $1.126 \pm 0.176$   $\chi^2/\text{NDF}: 678.0/59$

- sign  $1.394 \pm 0.249$   $\chi^2/\text{NDF}: 288.9/29$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-54.387 \pm 0.864$   $\chi^2/\text{NDF}$ : 1014.0/16

Left Out:  $-5.248 \pm 0.425$   $\chi^2/\text{NDF}$ : 2933.7/12

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}$ : 1319.3/17

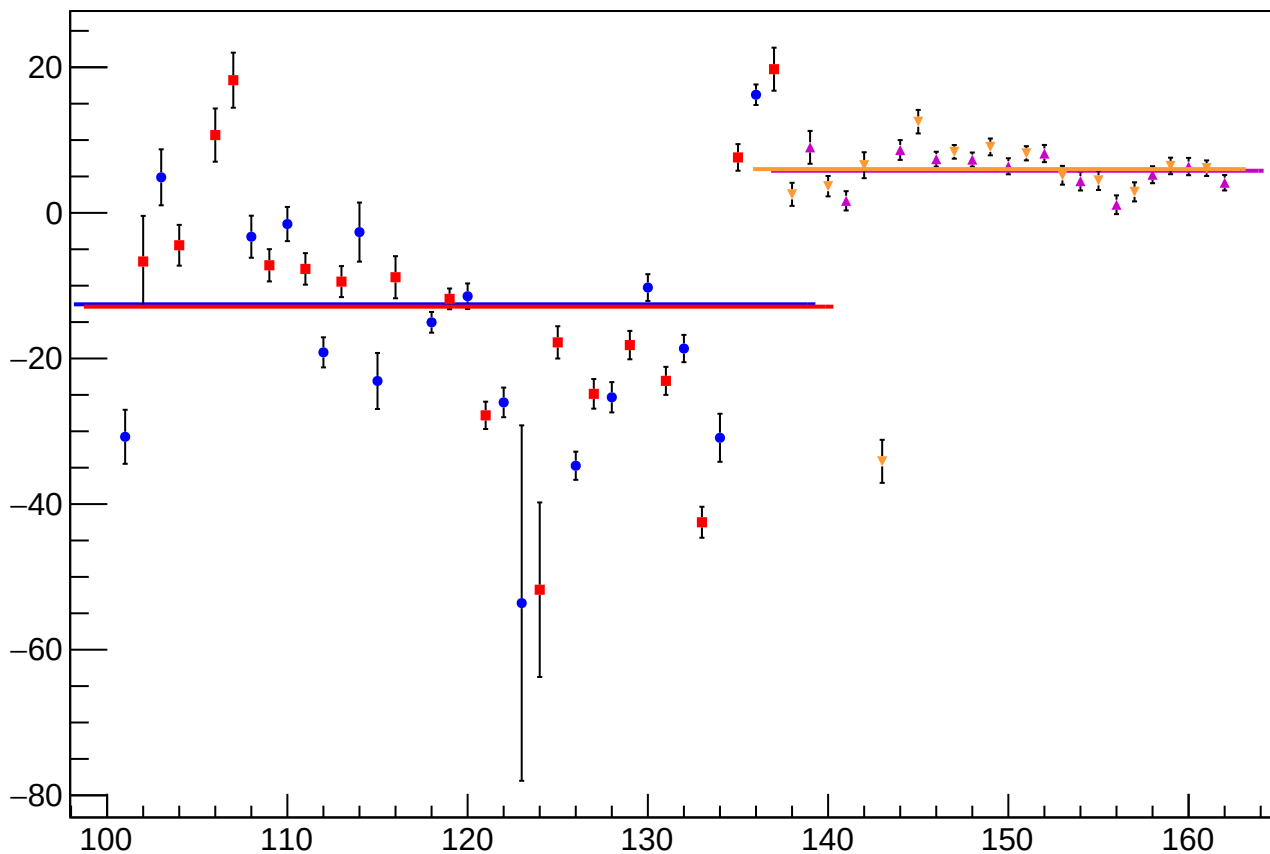
Left In:  $-3.455 \pm 0.409$   $\chi^2/\text{NDF}$ : 189.1/11

+ sign  $-14.808 \pm 0.381$   $\chi^2/\text{NDF}$ : 6550.1/29

All:  $-13.422 \pm 0.265$   $\chi^2/\text{NDF}$ : 10513.5/59

- sign  $-12.123 \pm 0.369$   $\chi^2/\text{NDF}$ : 3937.9/29

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:  $6.013 \pm 0.352$   $\chi^2/\text{NDF}$ : 234.3/12

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

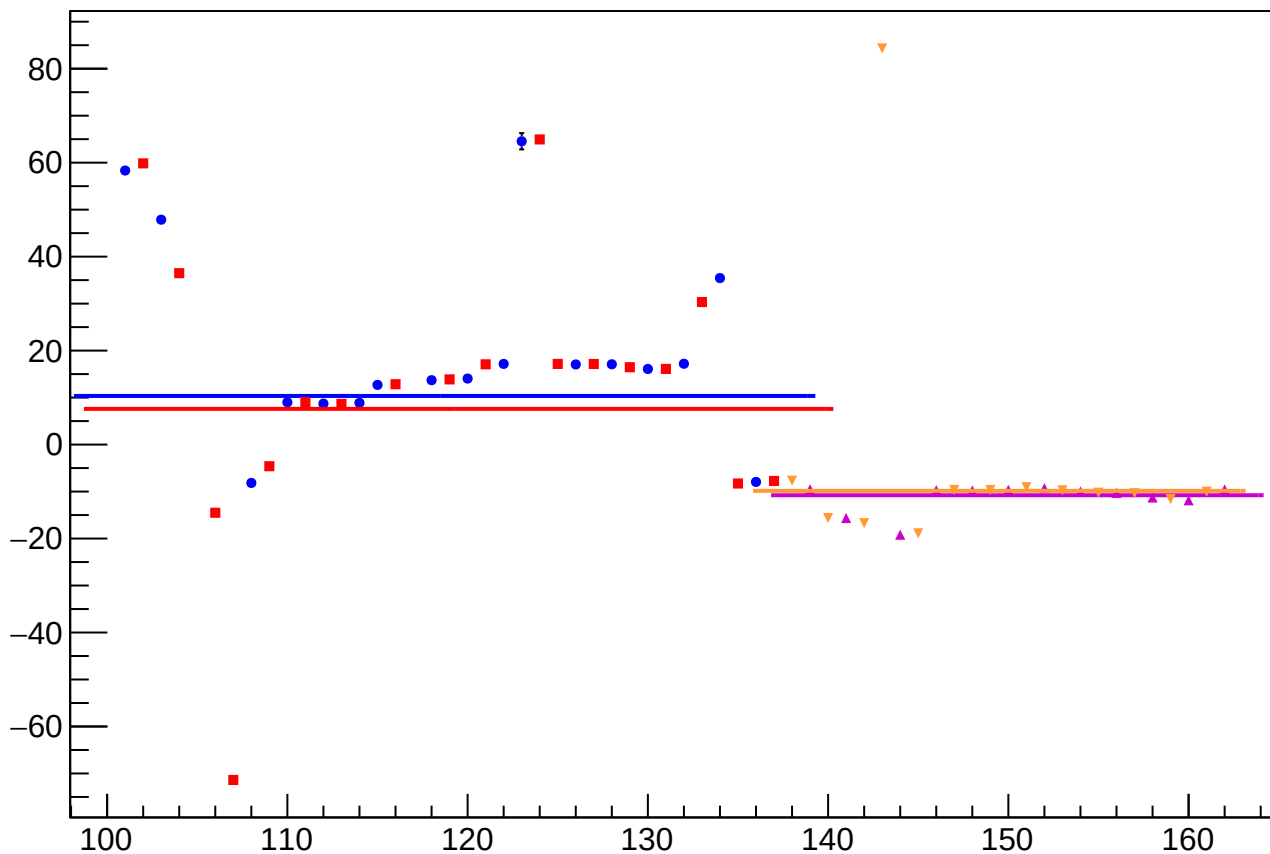
Left In:  $5.786 \pm 0.345$   $\chi^2/\text{NDF}$ : 42.5/11

+ sign  $0.344 \pm 0.294$   $\chi^2/\text{NDF}$ : 1862.4/29

All:  $0.344 \pm 0.207$   $\chi^2/\text{NDF}$ : 3483.7/59

- sign  $0.344 \pm 0.291$   $\chi^2/\text{NDF}$ : 1621.3/29

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: -9.846+/-0.017  $\chi^2/\text{NDF}$ : 408953.3/12

Right Out: 7.602+/-0.031  $\chi^2/\text{NDF}$ : 538460.3/17

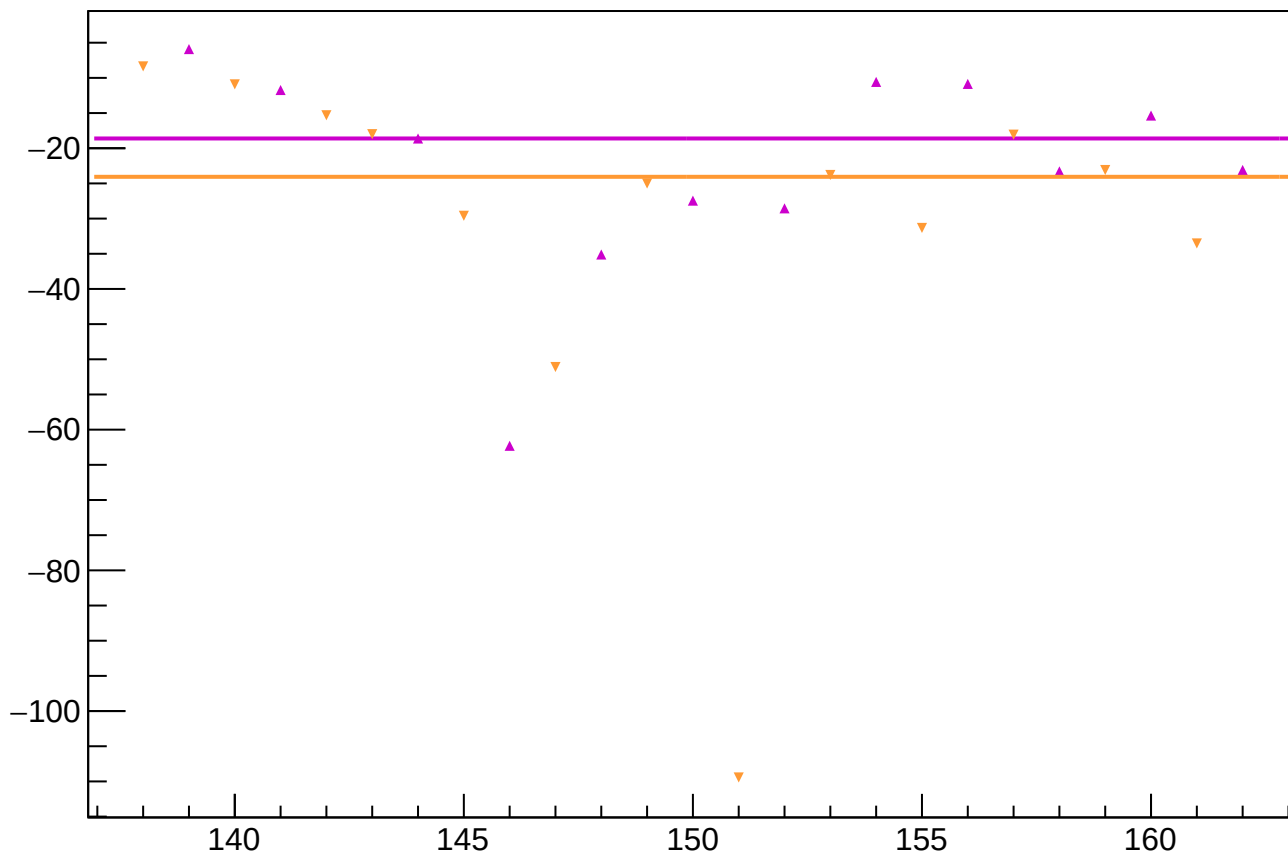
Left In: -10.786+/-0.016  $\chi^2/\text{NDF}$ : 21945.4/11

+ sign -5.268+/-0.015  $\chi^2/\text{NDF}$ : 1127135.3/29

All: -6.164+/-0.010  $\chi^2/\text{NDF}$ : 1969338.8/59

- sign -7.013+/-0.014  $\chi^2/\text{NDF}$ : 834829.6/29

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -24.061 $\pm$ 0.072  $\chi^2$ /NDF: 52142.7/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -18.613 $\pm$ 0.060  $\chi^2$ /NDF: 37464.7/11

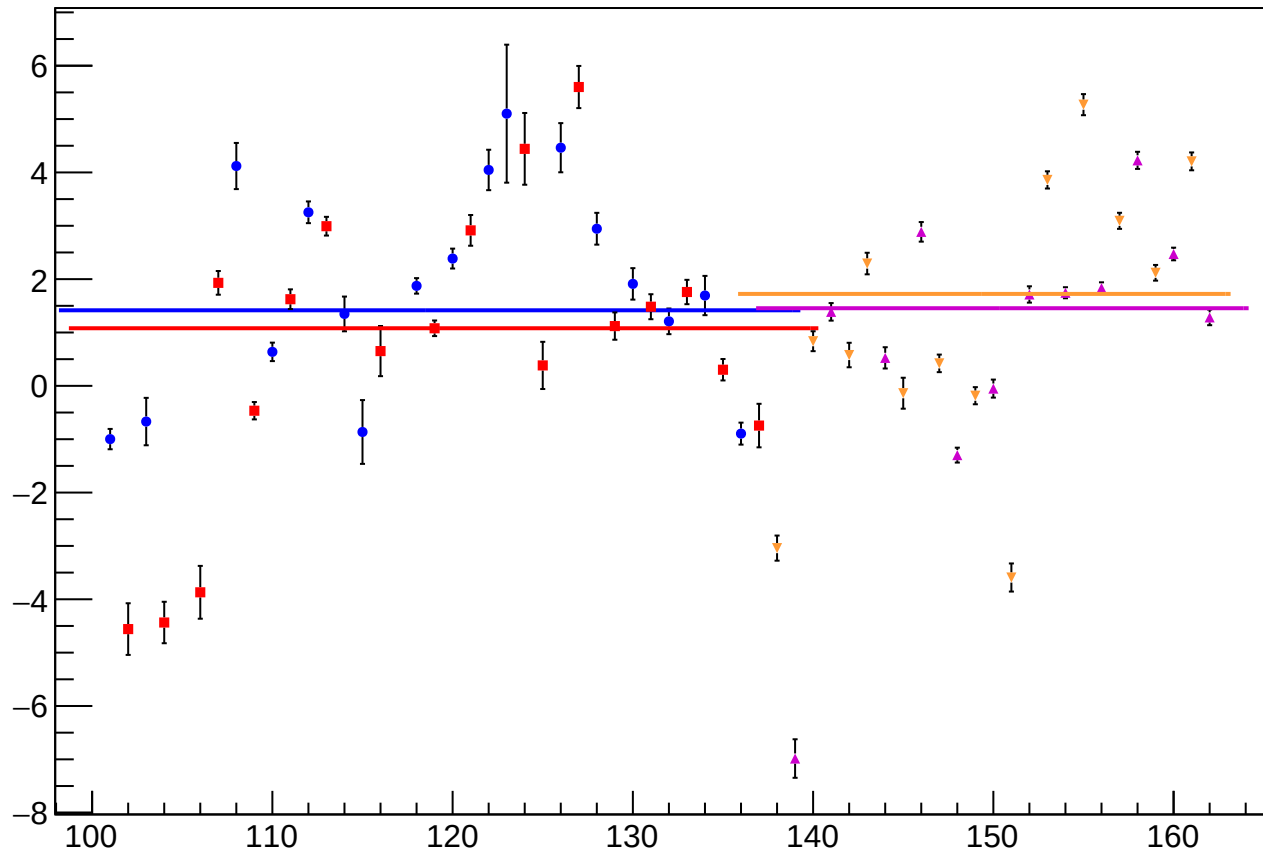
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -20.846 $\pm$ 0.046  $\chi^2$ /NDF: 92993.8/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.416 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 631.2/16

Left Out: 1.723 $\pm$ 0.051  $\chi^2/\text{NDF}$ :1924.9/12

Right Out: 1.080 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 916.1/17

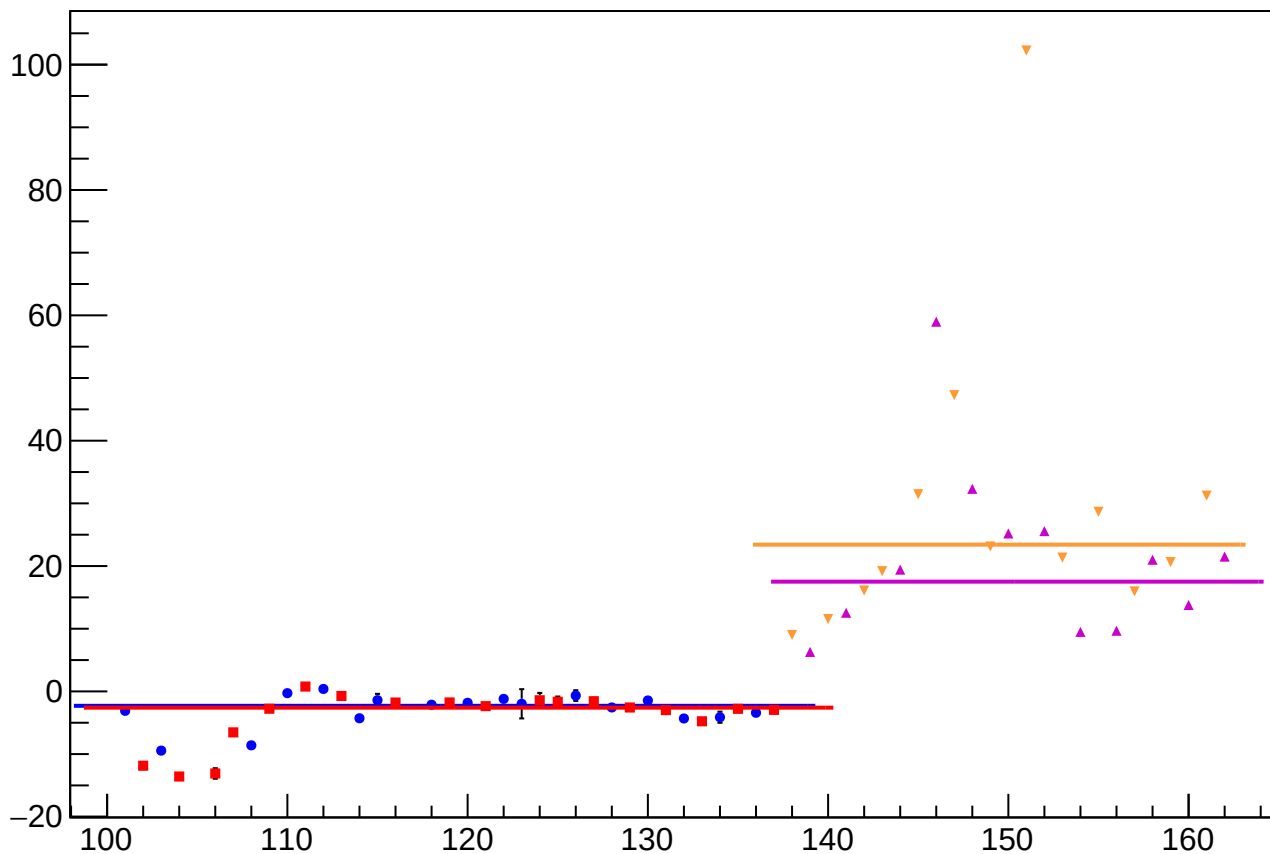
Left In: 1.455 $\pm$ 0.042  $\chi^2/\text{NDF}$ :1493.2/11

+ sign 1.597 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 2570.9/29

All: 1.443 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 5034.7/59

- sign 1.326 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2436.6/29

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:  $23.415 \pm 0.070$   $\chi^2/\text{NDF}$ : 46903.8/12

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}$ : 889.6/17

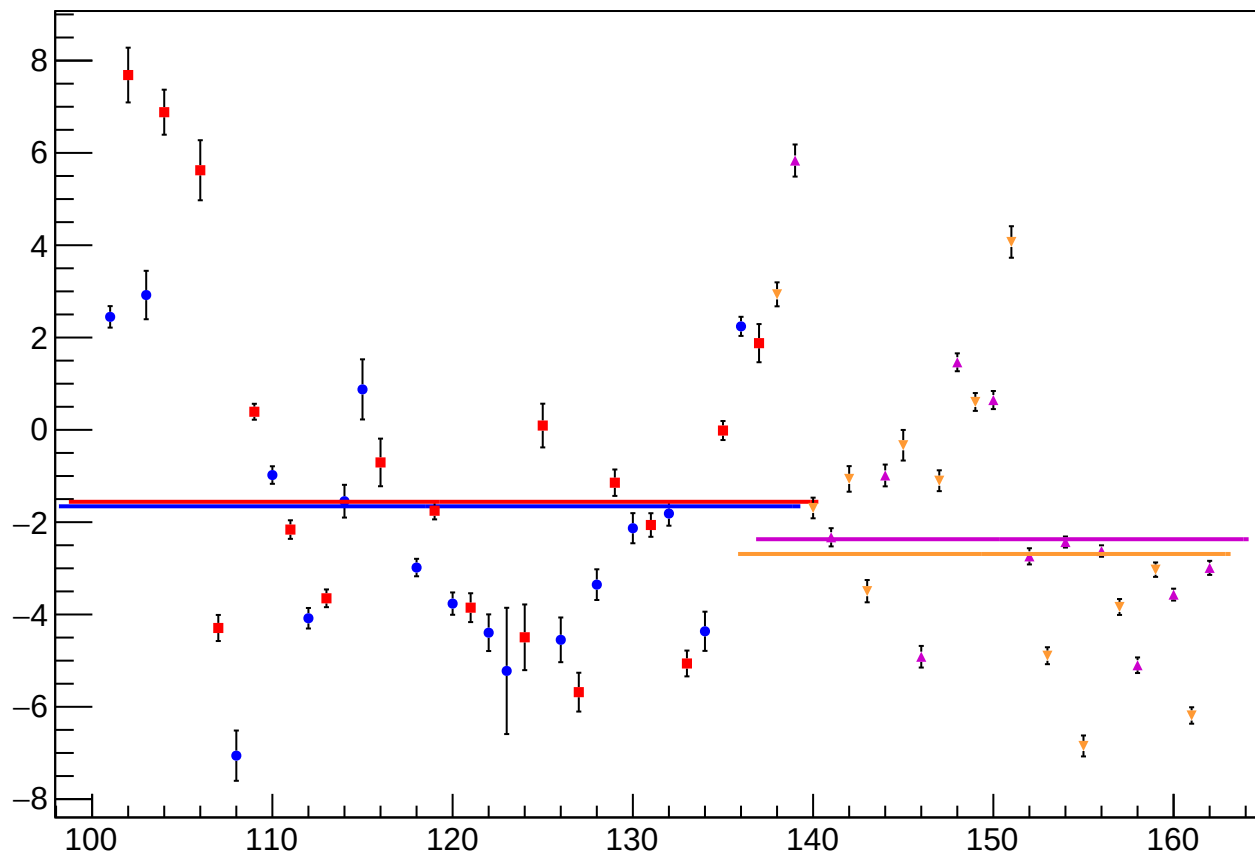
Left In:  $17.511 \pm 0.057$   $\chi^2/\text{NDF}$ : 35313.8/11

+ sign  $16.031 \pm 0.059$   $\chi^2/\text{NDF}$ : 85712.5/29

All:  $13.935 \pm 0.038$   $\chi^2/\text{NDF}$ : 154758.0/59

- sign  $12.464 \pm 0.050$   $\chi^2/\text{NDF}$ : 66925.3/29

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:  $-2.689 \pm 0.059$   $\chi^2/\text{NDF}$ : 2230.7/12

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

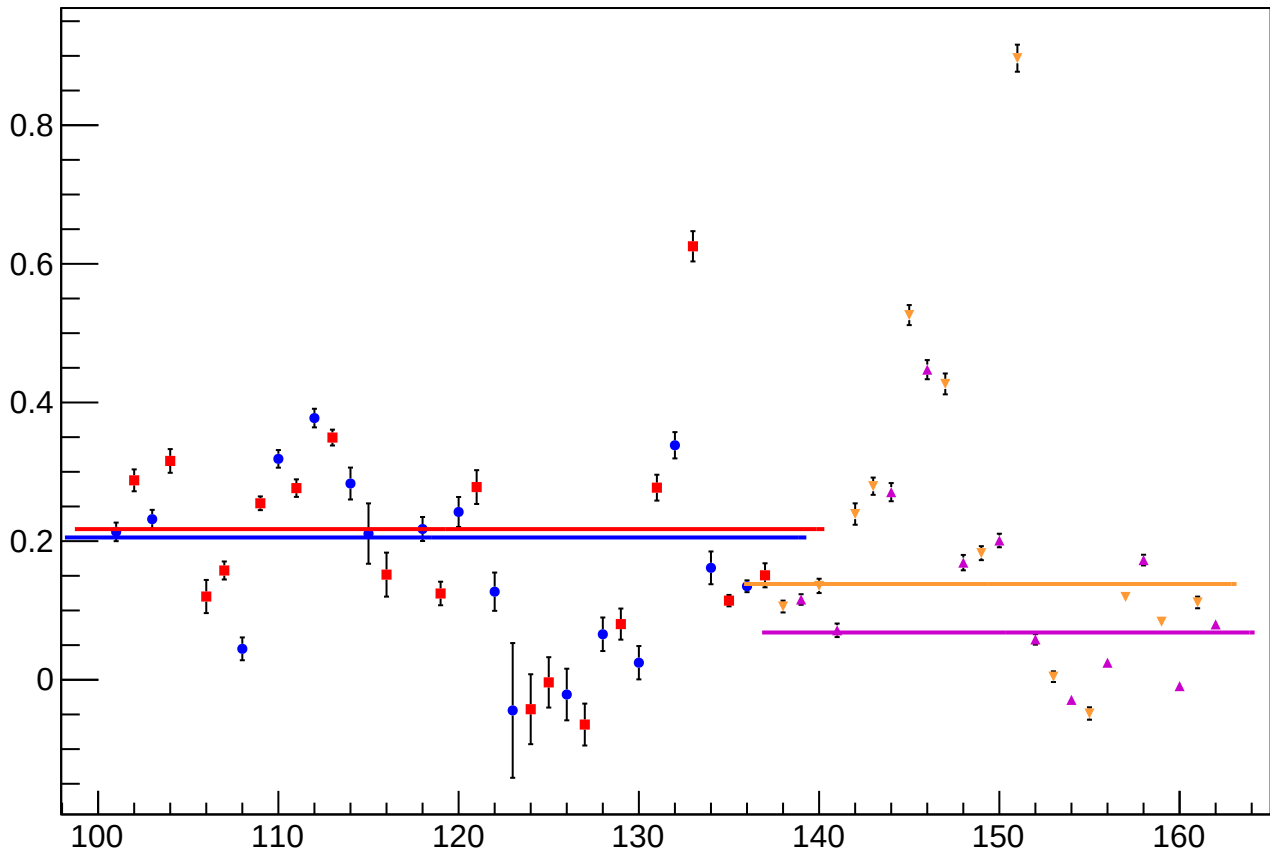
Left In:  $-2.369 \pm 0.048$   $\chi^2/\text{NDF}$ : 1710.4/11

+ sign  $-2.260 \pm 0.045$   $\chi^2/\text{NDF}$ : 3627.5/29

All:  $-2.159 \pm 0.030$   $\chi^2/\text{NDF}$ : 6930.2/59

- sign  $-2.085 \pm 0.039$   $\chi^2/\text{NDF}$ : 3294.0/29

# 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:  $0.138 \pm 0.003$   $\chi^2/\text{NDF}$ : 3611.9/12

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

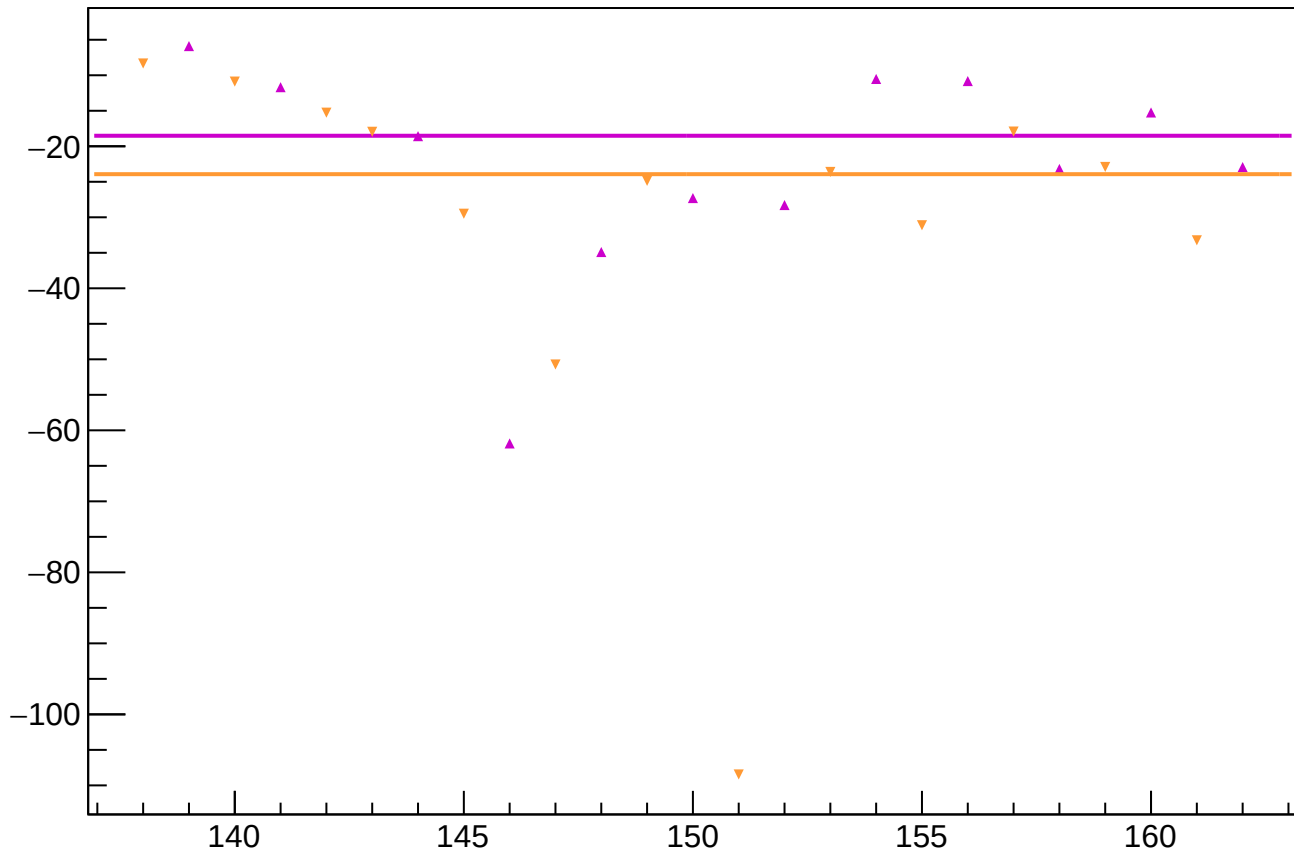
Left In:  $0.068 \pm 0.002$   $\chi^2/\text{NDF}$ : 2122.1/11

+ sign  $0.158 \pm 0.002$   $\chi^2/\text{NDF}$ : 4418.5/29

All:  $0.126 \pm 0.001$   $\chi^2/\text{NDF}$ : 9119.2/59

- sign  $0.105 \pm 0.002$   $\chi^2/\text{NDF}$ : 4363.0/29

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: -23.929+/-0.071  $\chi^2/\text{NDF}$ : 51997.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

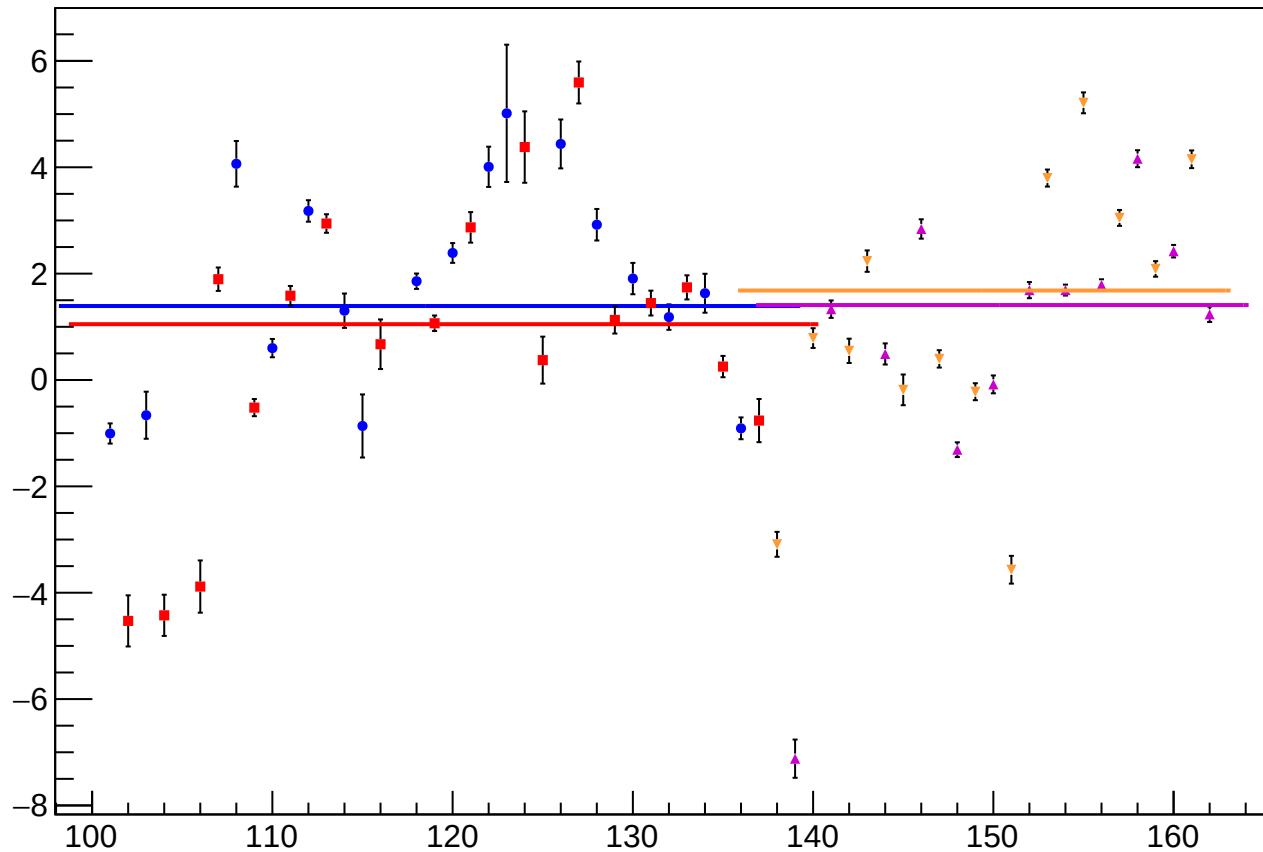
Left In: -18.518+/-0.060  $\chi^2/\text{NDF}$ : 37389.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.736+/-0.046  $\chi^2/\text{NDF}$ : 92768.8/24

- 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: 1.683 $\pm$ 0.051  $\chi^2/\text{NDF}$ : 1930.5/12

Right Out: 1.049 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 919.8/17

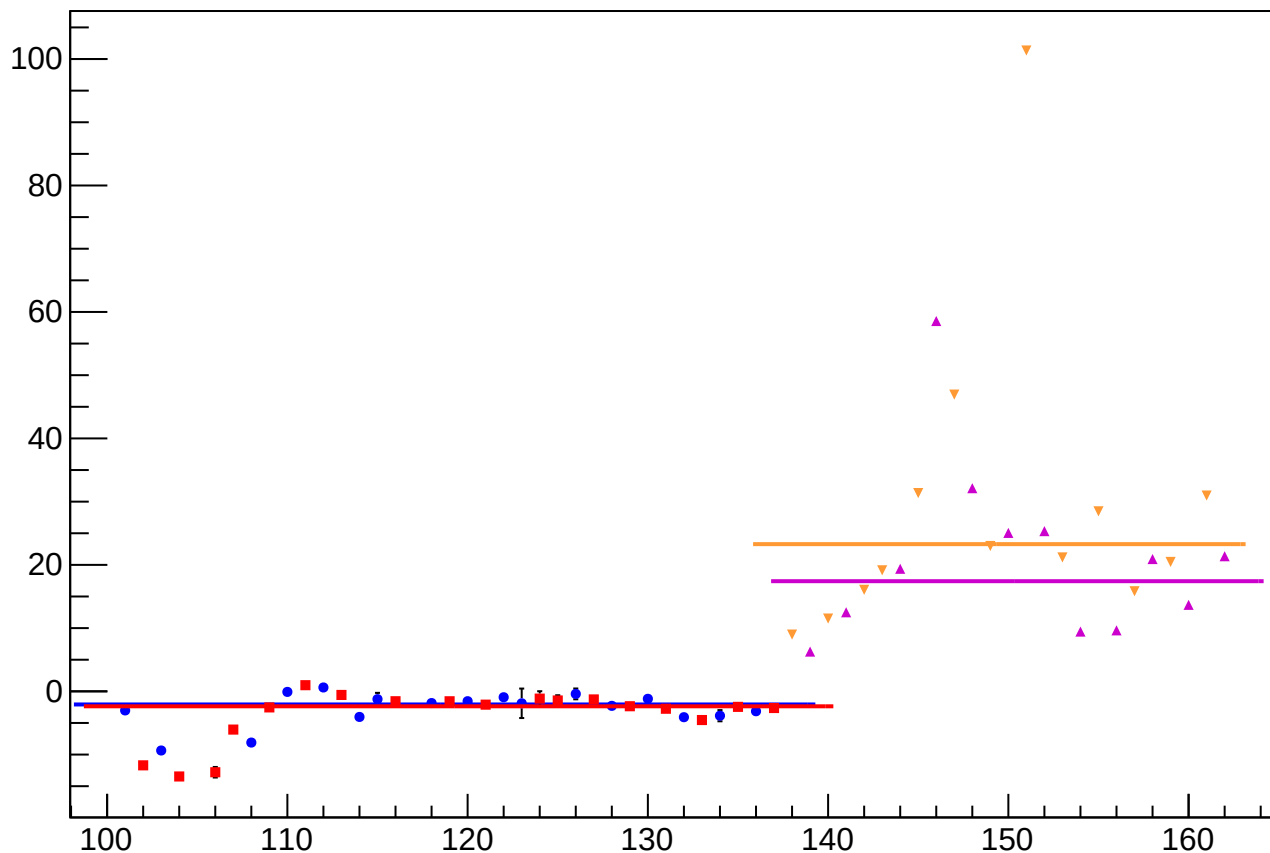
Left In: 1.409 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1505.4/11

+ sign 1.563 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 2573.3/29

All: 1.405 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 5052.6/59

- sign 1.286 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2450.6/29

# 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:  $23.280 \pm 0.070$   $\chi^2/\text{NDF}$ : 46798.0/12

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

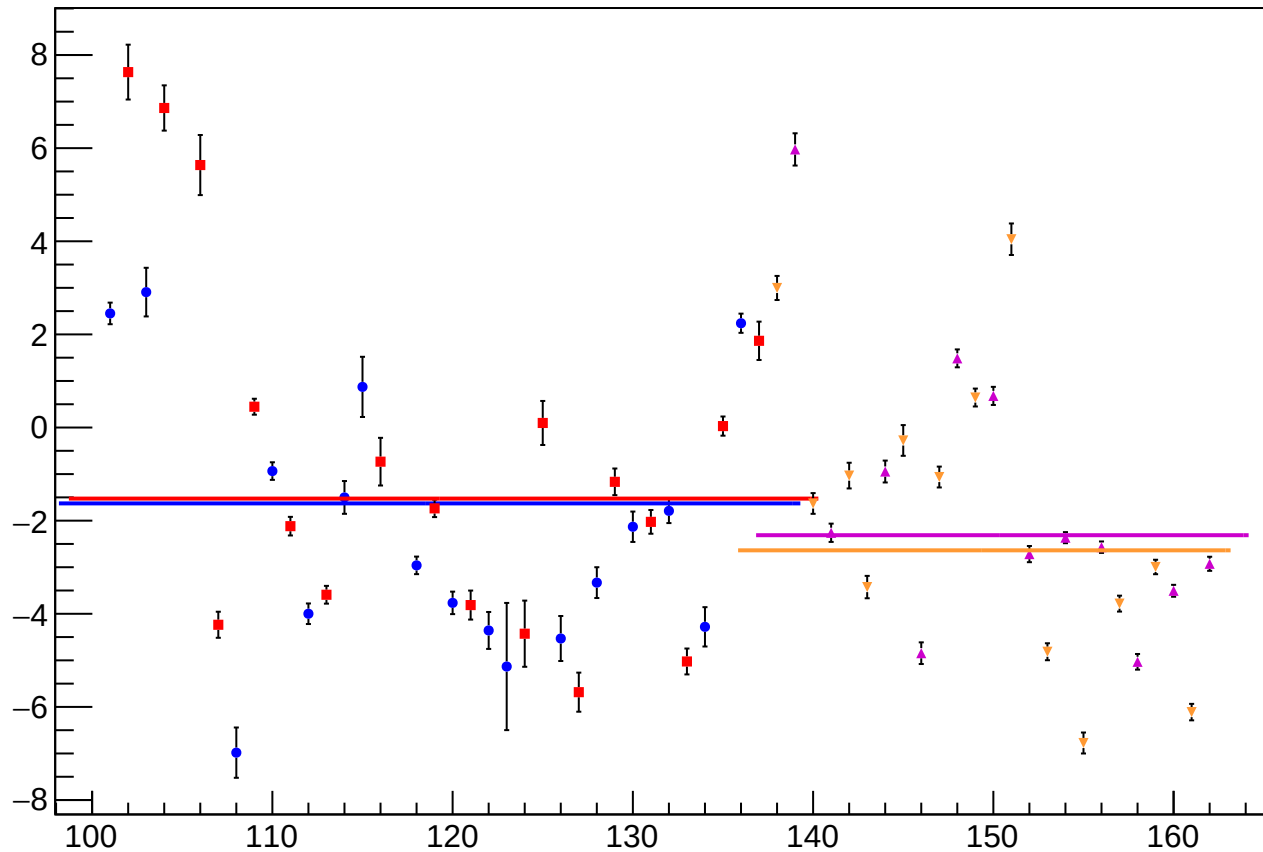
Left In:  $17.421 \pm 0.057$   $\chi^2/\text{NDF}$ : 35253.9/11

+ sign  $16.014 \pm 0.059$   $\chi^2/\text{NDF}$ : 84949.9/29

All:  $13.924 \pm 0.038$   $\chi^2/\text{NDF}$ : 153314.0/59

- sign  $12.459 \pm 0.049$   $\chi^2/\text{NDF}$ : 66233.0/29

# 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:  $-2.637 \pm 0.059$   $\chi^2/\text{NDF}$ : 2237.6/12

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

Left In:  $-2.312 \pm 0.048$   $\chi^2/\text{NDF}$ : 1726.1/11

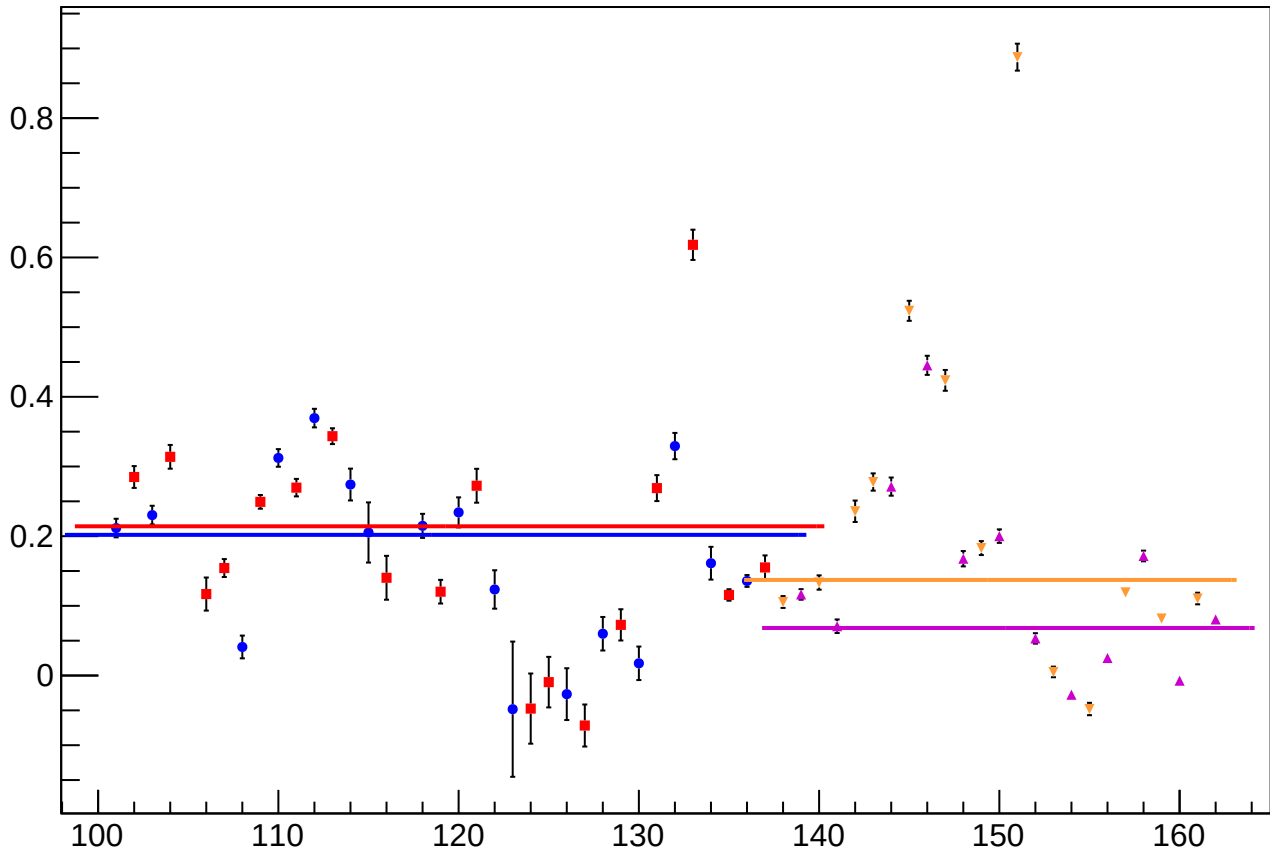
+ sign  $-2.220 \pm 0.045$   $\chi^2/\text{NDF}$ : 3625.1/29

All:  $-2.115 \pm 0.029$   $\chi^2/\text{NDF}$ : 6942.7/59

- sign  $-2.037 \pm 0.039$   $\chi^2/\text{NDF}$ : 3308.2/29



# 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:  $0.137 \pm 0.003$   $\chi^2/\text{NDF}$ : 3605.7/12

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1001.6/17

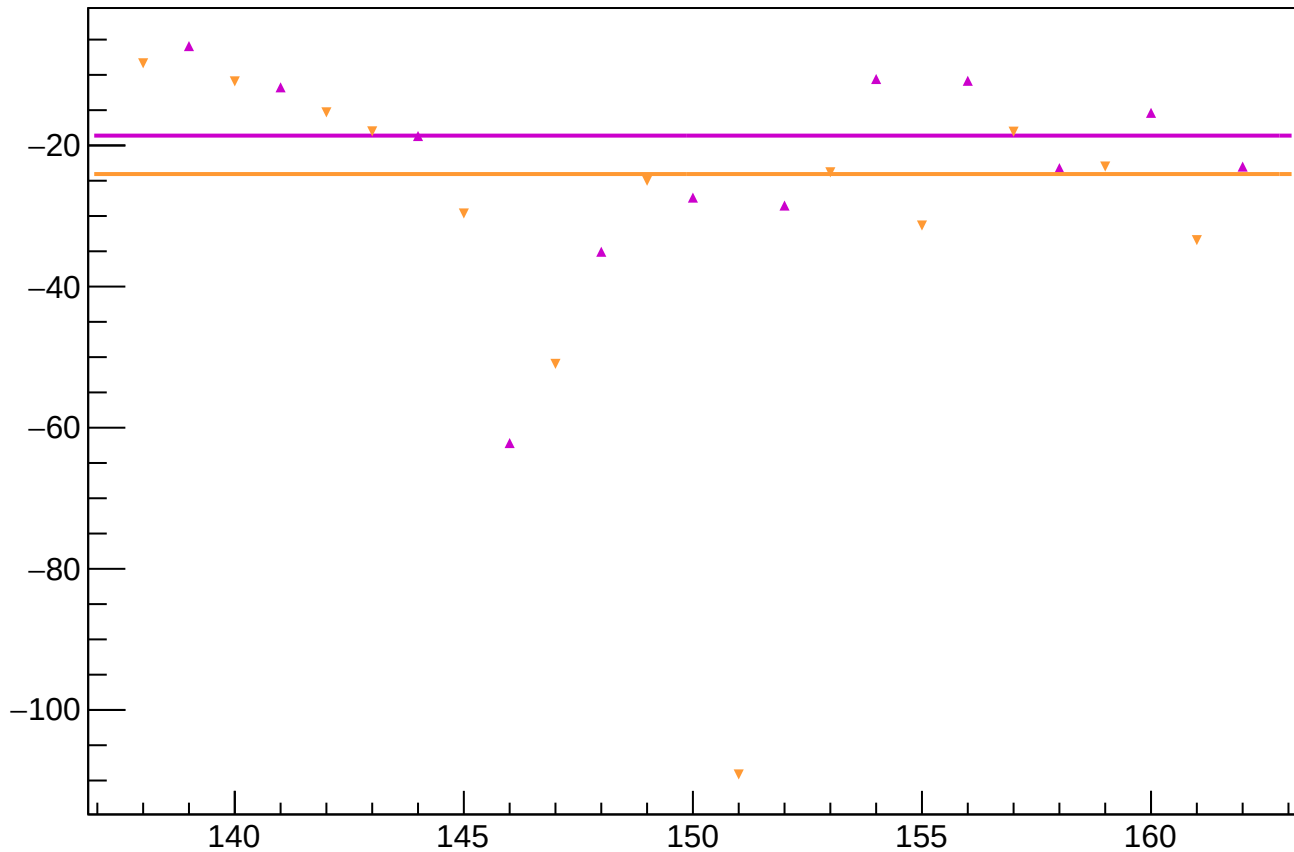
Left In:  $0.068 \pm 0.002$   $\chi^2/\text{NDF}$ : 2115.9/11

+ sign  $0.156 \pm 0.002$   $\chi^2/\text{NDF}$ : 4385.1/29

All:  $0.125 \pm 0.001$   $\chi^2/\text{NDF}$ : 9014.4/59

- sign  $0.104 \pm 0.002$   $\chi^2/\text{NDF}$ : 4299.1/29

# 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: -24.054+/-0.072  $\chi^2/\text{NDF}$ : 52120.2/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

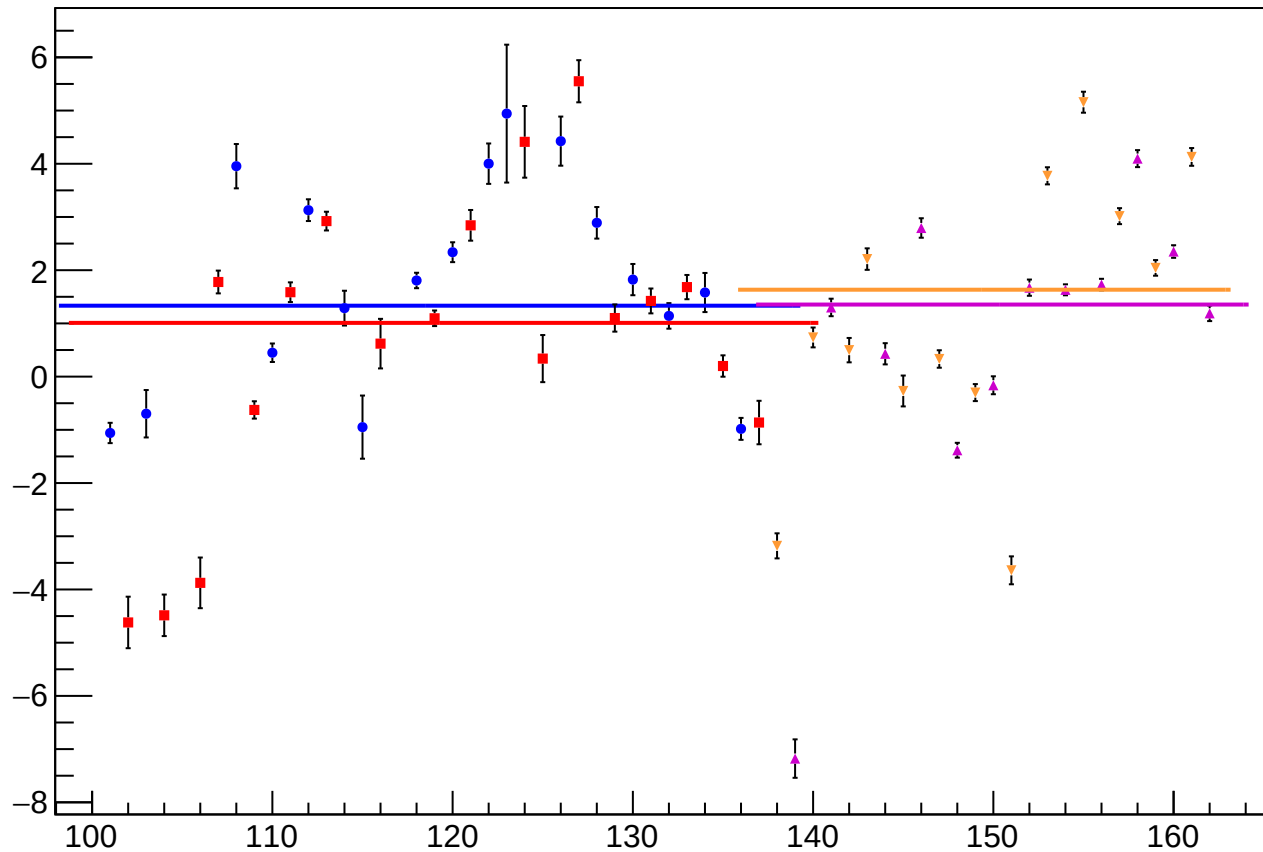
Left In: -18.607+/-0.060  $\chi^2/\text{NDF}$ : 37448.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.838+/-0.046  $\chi^2/\text{NDF}$ : 92967.7/24

- 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:  $1.633 \pm 0.051$   $\chi^2/\text{NDF}$ : 1942.2/12

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}$ : 930.3/17

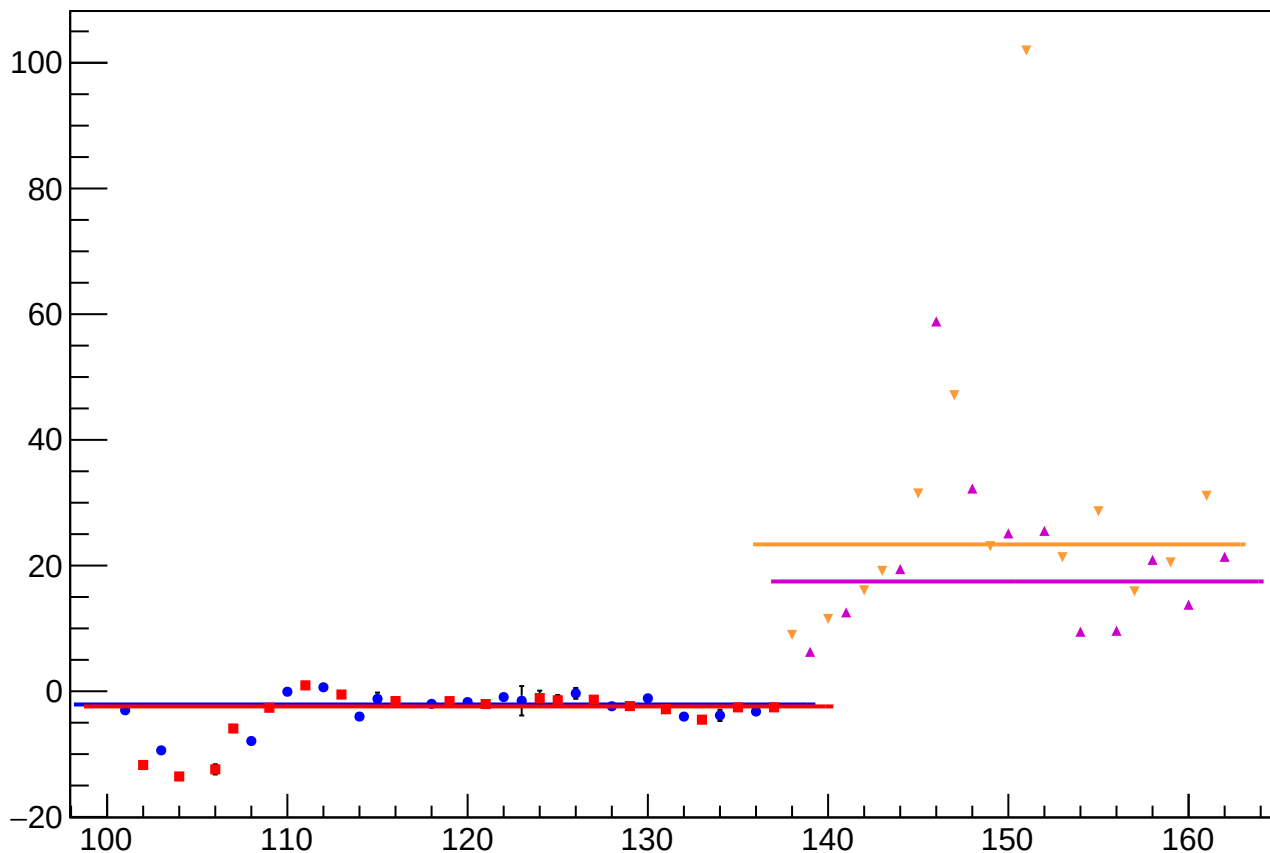
Left In:  $1.354 \pm 0.042$   $\chi^2/\text{NDF}$ : 1499.1/11

+ sign  $1.510 \pm 0.039$   $\chi^2/\text{NDF}$ : 2591.0/29

All:  $1.354 \pm 0.026$   $\chi^2/\text{NDF}$ : 5071.4/59

- sign  $1.236 \pm 0.034$   $\chi^2/\text{NDF}$ : 2452.5/29

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:  $23.370 \pm 0.070$   $\chi^2/\text{NDF}$ : 46903.8/12

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

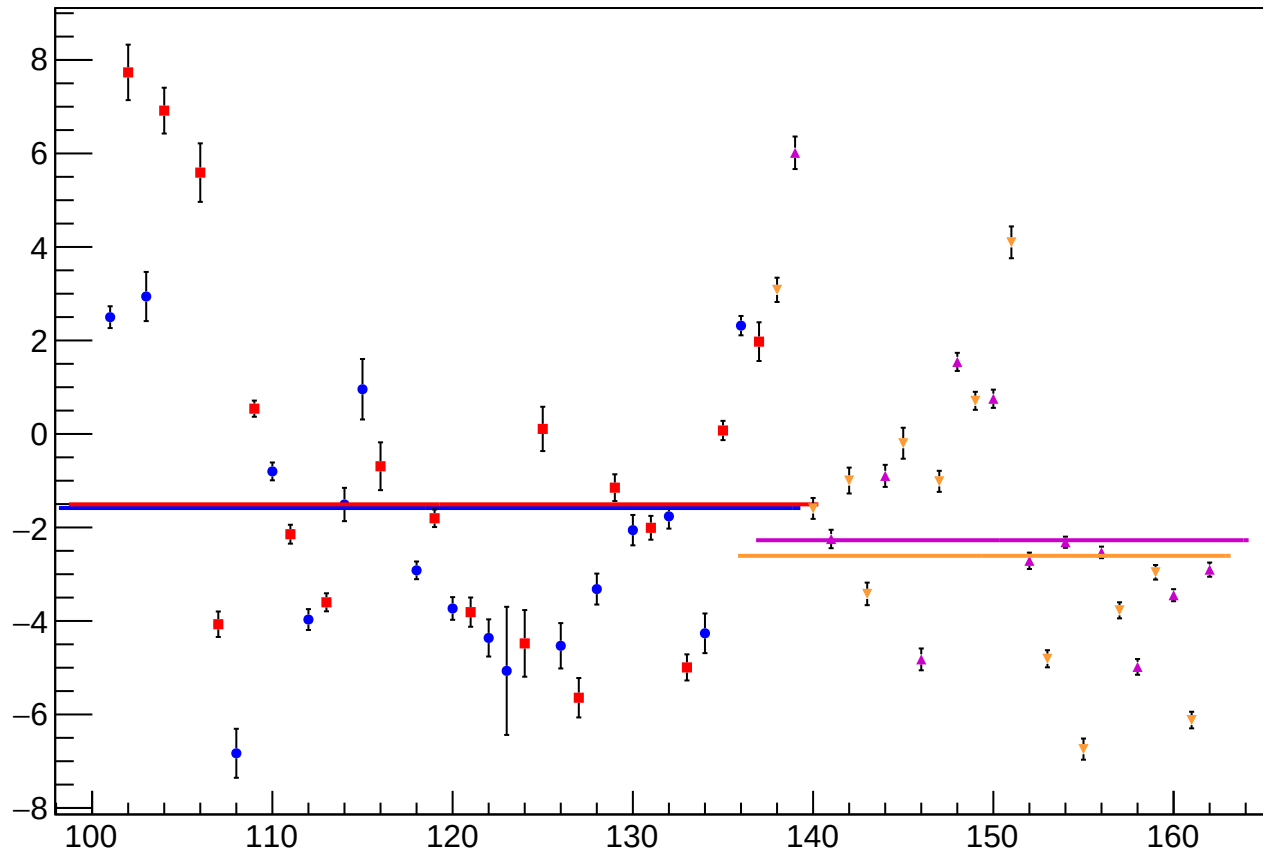
Left In:  $17.469 \pm 0.057$   $\chi^2/\text{NDF}$ : 35321.0/11

+ sign  $16.081 \pm 0.059$   $\chi^2/\text{NDF}$ : 85025.9/29

All:  $13.971 \pm 0.038$   $\chi^2/\text{NDF}$ : 153471.5/59

- sign  $12.493 \pm 0.050$   $\chi^2/\text{NDF}$ : 66294.7/29

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-2.606 \pm 0.059$   $\chi^2/\text{NDF}$ : 2253.4/12

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

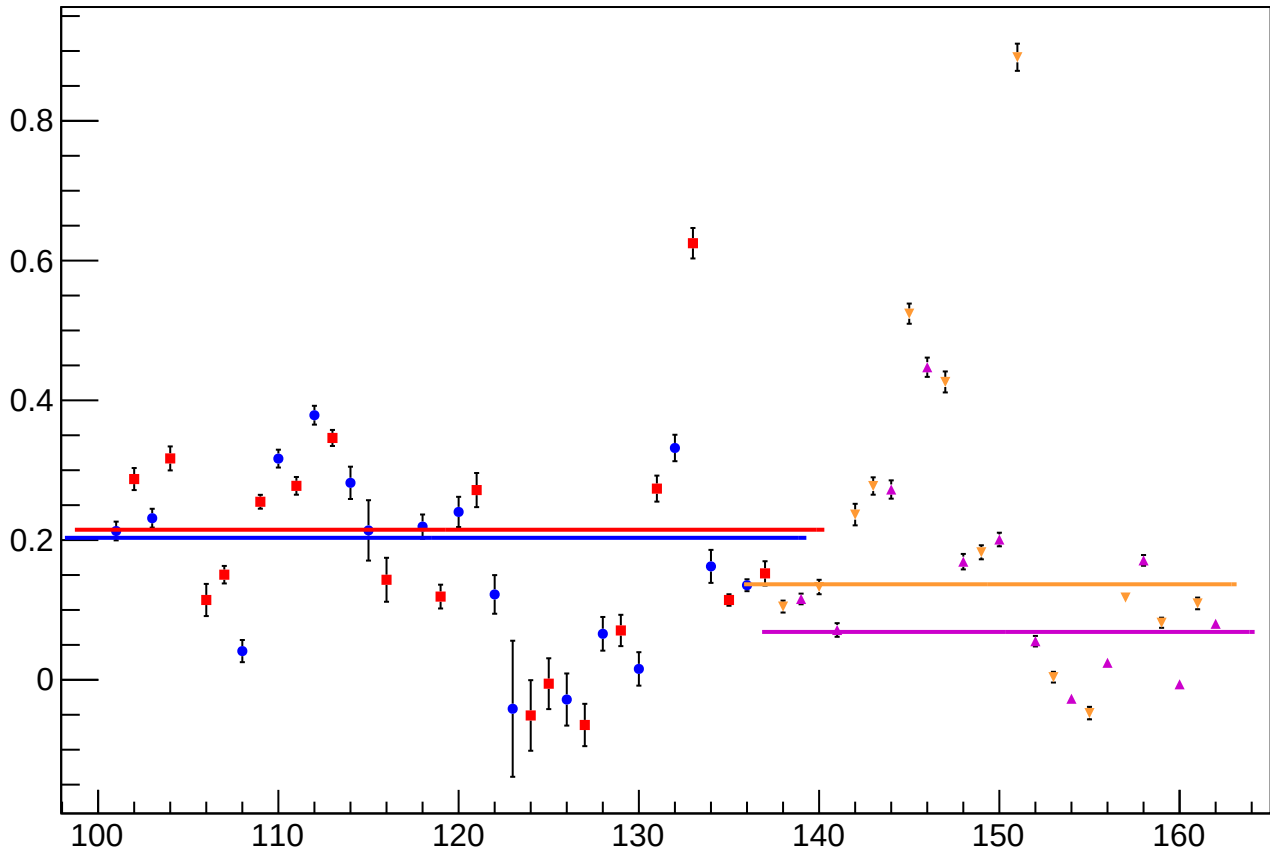
Left In:  $-2.273 \pm 0.048$   $\chi^2/\text{NDF}$ : 1721.2/11

+ sign  $-2.184 \pm 0.045$   $\chi^2/\text{NDF}$ : 3648.9/29

All:  $-2.080 \pm 0.029$   $\chi^2/\text{NDF}$ : 6967.8/59

- sign  $-2.004 \pm 0.039$   $\chi^2/\text{NDF}$ : 3309.9/29

# 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: 0.137 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 3600.0/12

Right Out: 0.215 $\pm$ 0.004  $\chi^2/\text{NDF}$ : 1033.0/17

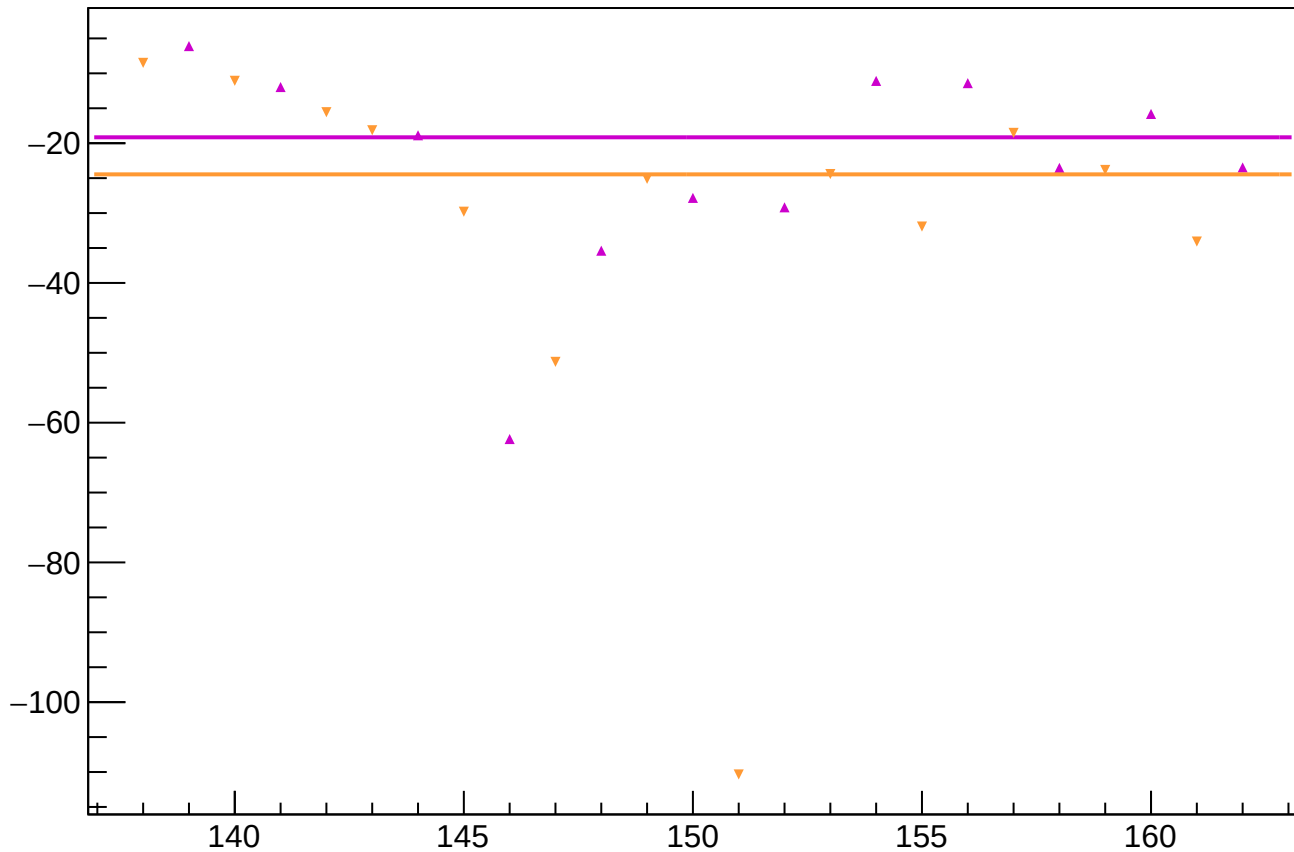
Left In: 0.069 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 2106.4/11

+ sign 0.156 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 4415.9/29

All: 0.125 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 9060.0/59

- sign 0.104 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 4321.2/29

# 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: -24.458+/-0.073  $\chi^2/\text{NDF}$ : 51997.4/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

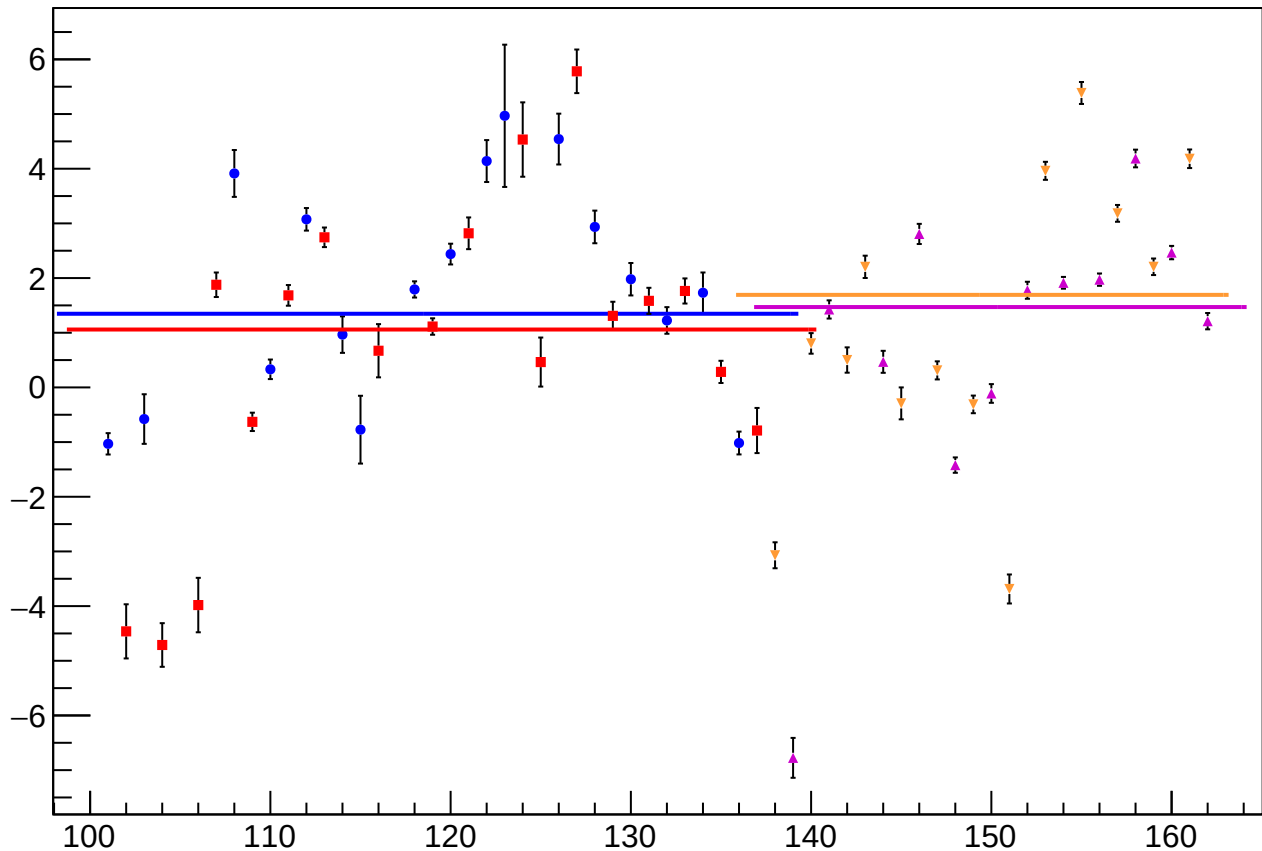
Left In: -19.155+/-0.061  $\chi^2/\text{NDF}$ : 36359.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.348+/-0.047  $\chi^2/\text{NDF}$ : 91456.3/24

- 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  $\chi^2$ /NDF: 630.1/16

Left Out: 1.693 $\pm$ 0.052  $\chi^2$ /NDF:1986.0/12

Right Out: 1.059 $\pm$ 0.059  $\chi^2$ /NDF: 905.3/17

Left In: 1.470 $\pm$ 0.043  $\chi^2$ /NDF:1487.4/11

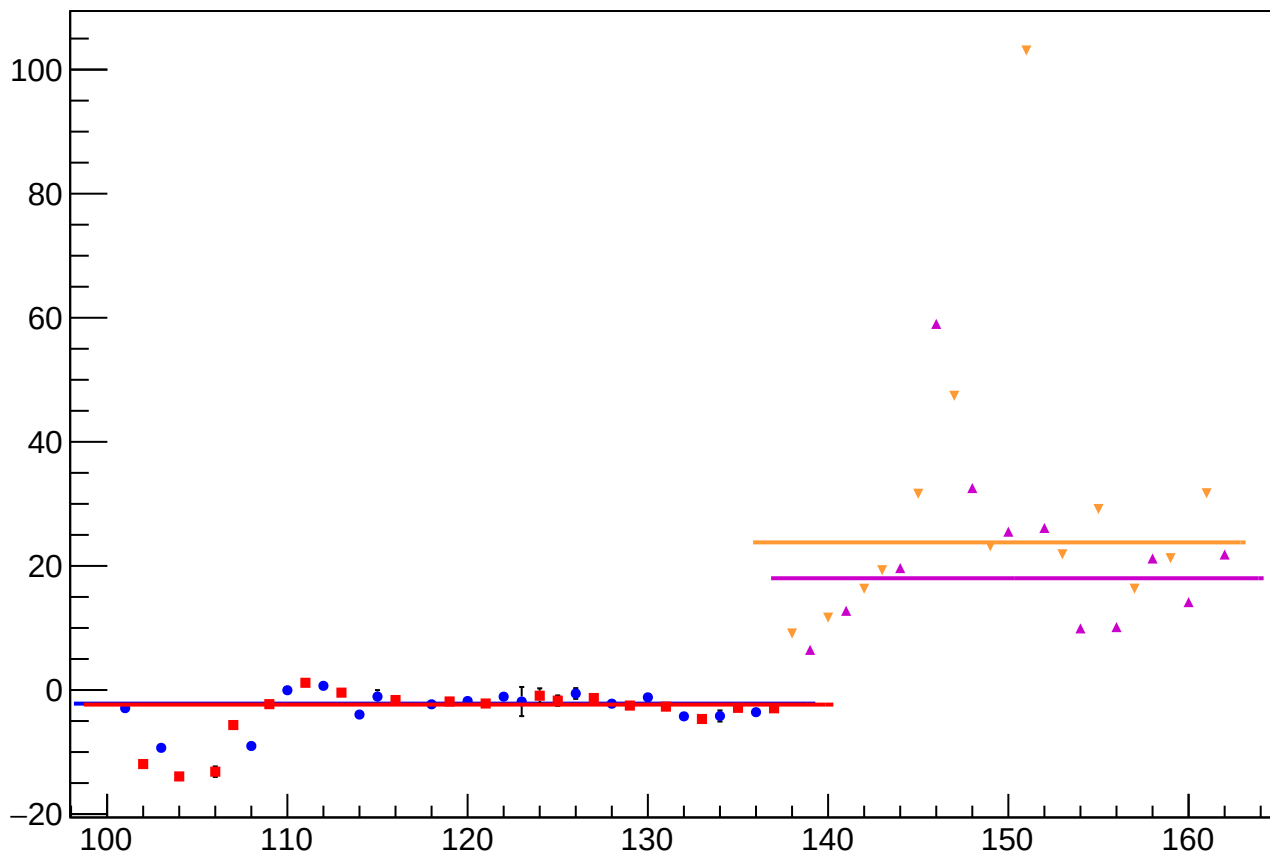
+ sign 1.551 $\pm$ 0.040  $\chi^2$ /NDF: 2634.3/29

All: 1.425 $\pm$ 0.026  $\chi^2$ /NDF: 5076.2/59

- sign 1.328 $\pm$ 0.035  $\chi^2$ /NDF: 2424.1/29



reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.194 \pm 0.113$   $\chi^2/\text{NDF}: 463.5/16$

Left Out:  $23.793 \pm 0.071$   $\chi^2/\text{NDF}: 46649.0/12$

Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$

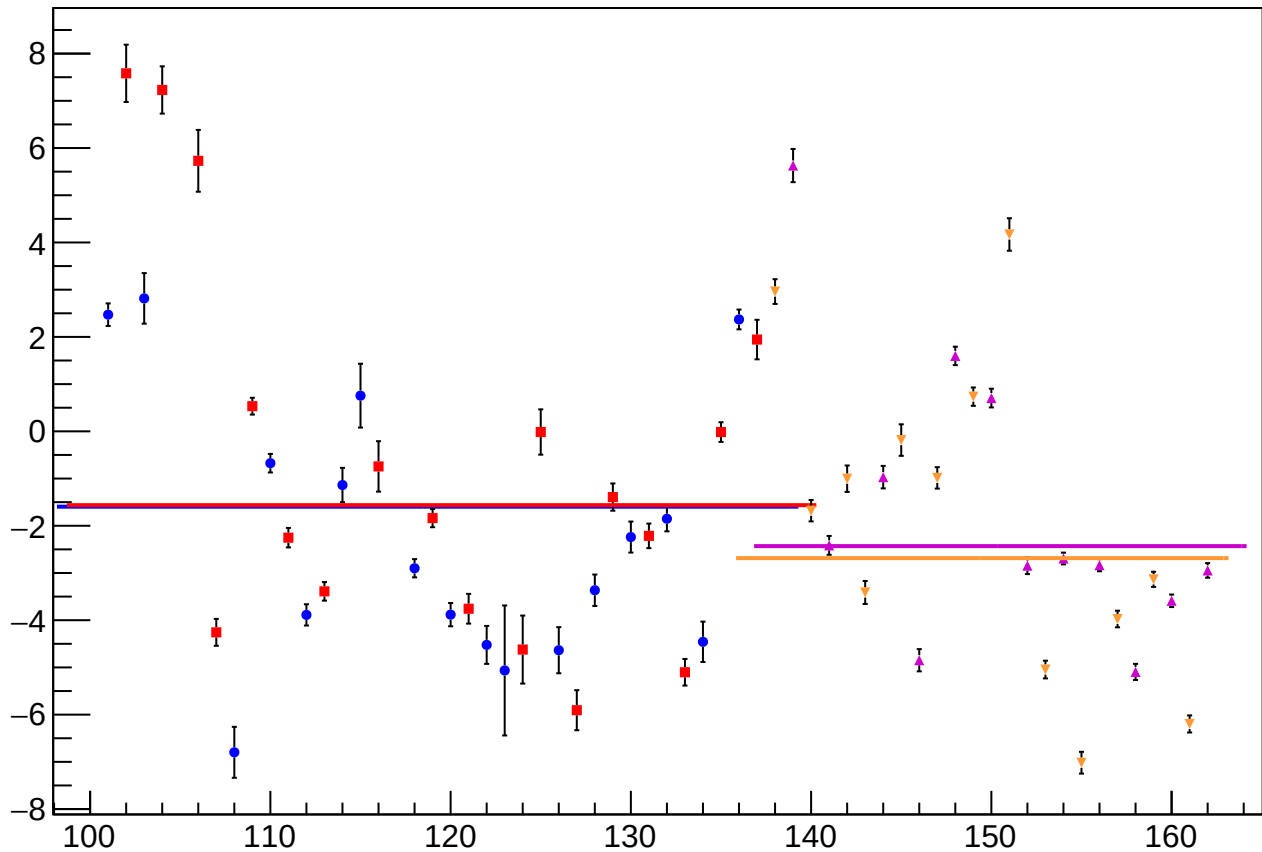
Left In:  $18.014 \pm 0.059$   $\chi^2/\text{NDF}: 34142.5/11$

+ sign  $16.365 \pm 0.060$   $\chi^2/\text{NDF}: 84982.6/29$

All:  $14.332 \pm 0.039$   $\chi^2/\text{NDF}: 152190.9/59$

- sign  $12.887 \pm 0.051$   $\chi^2/\text{NDF}: 65265.4/29$

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.595 \pm 0.072$   $\chi^2/\text{NDF}$ : 1255.4/16

Left Out:  $-2.685 \pm 0.060$   $\chi^2/\text{NDF}$ : 2297.0/12

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

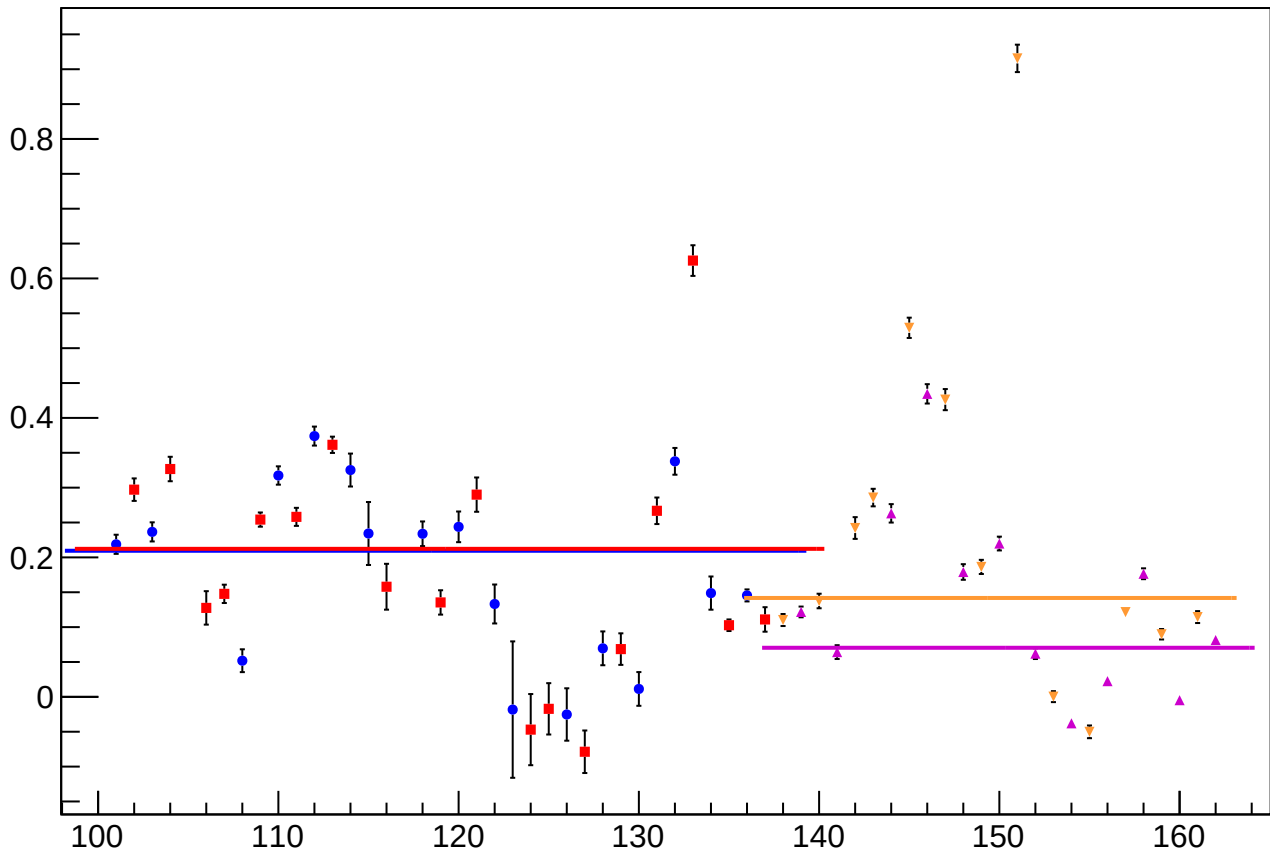
Left In:  $-2.431 \pm 0.049$   $\chi^2/\text{NDF}$ : 1695.7/11

+ sign  $-2.235 \pm 0.046$   $\chi^2/\text{NDF}$ : 3688.0/29

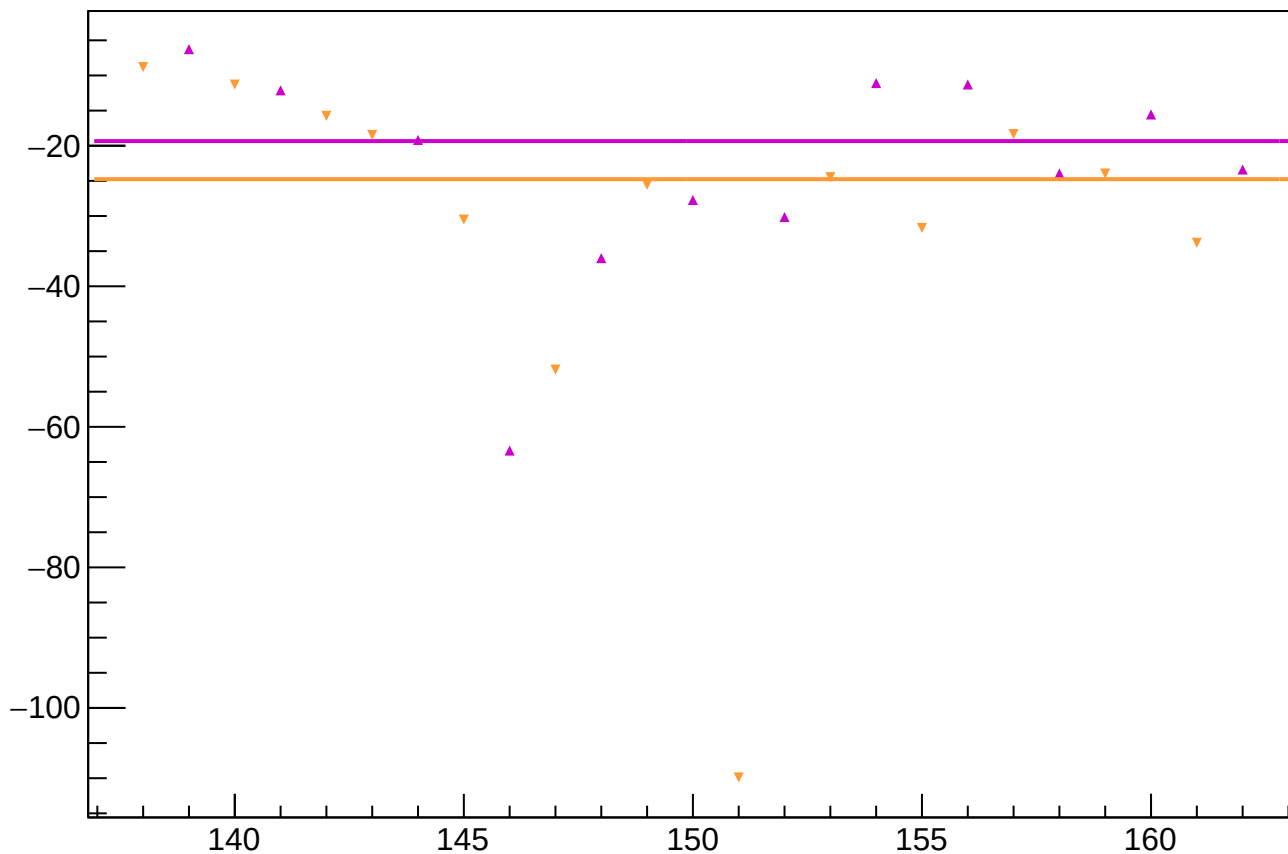
All:  $-2.172 \pm 0.030$   $\chi^2/\text{NDF}$ : 6957.4/59

- sign  $-2.125 \pm 0.040$   $\chi^2/\text{NDF}$ : 3266.2/29

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



# 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: -24.760+/-0.074  $\chi^2/\text{NDF}$ : 51088.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

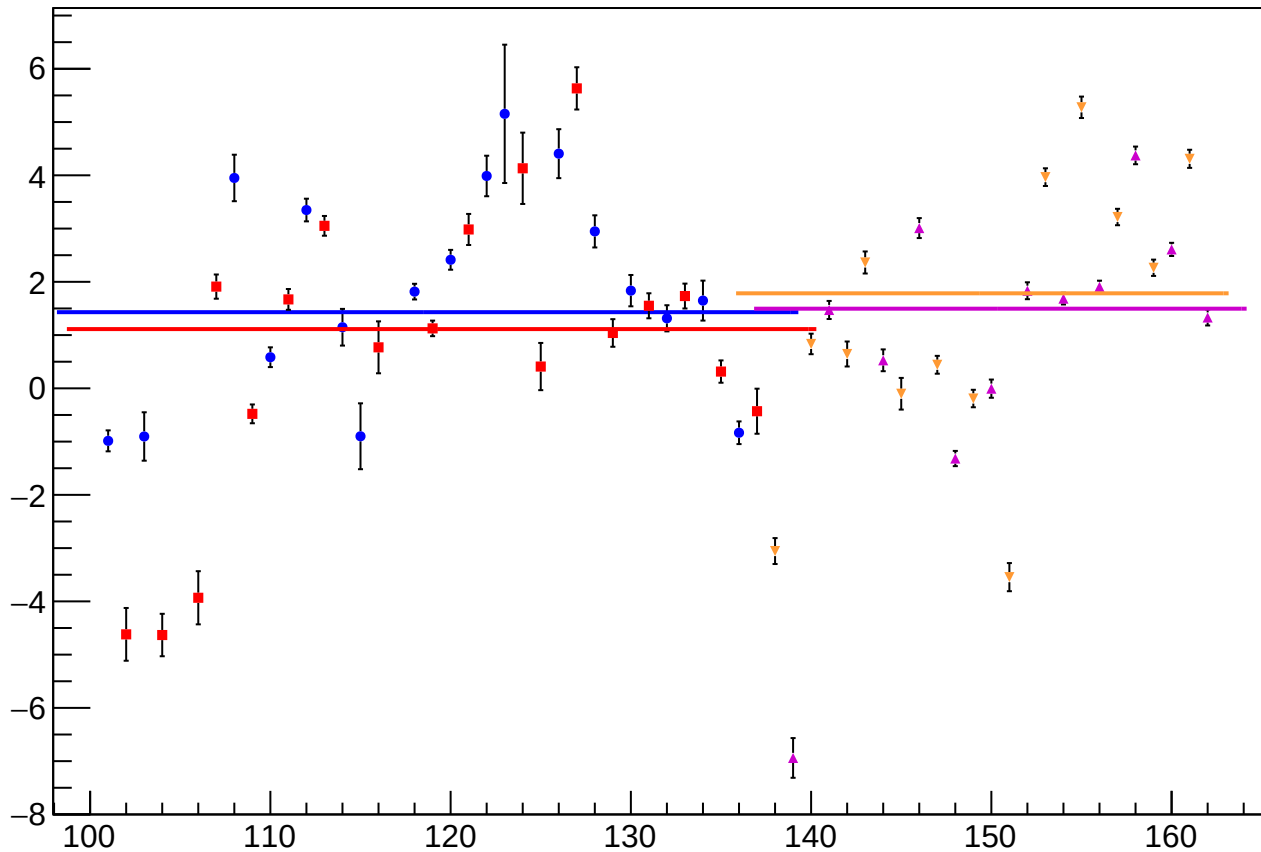
Left In: -19.339+/-0.062  $\chi^2/\text{NDF}$ : 36654.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.589+/-0.048  $\chi^2/\text{NDF}$ : 90894.4/24

- 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  $\chi^2$ /NDF: 598.0/16

Left Out: 1.784 $\pm$ 0.052  $\chi^2$ /NDF:1896.7/12

Right Out: 1.113 $\pm$ 0.060  $\chi^2$ /NDF: 887.6/17

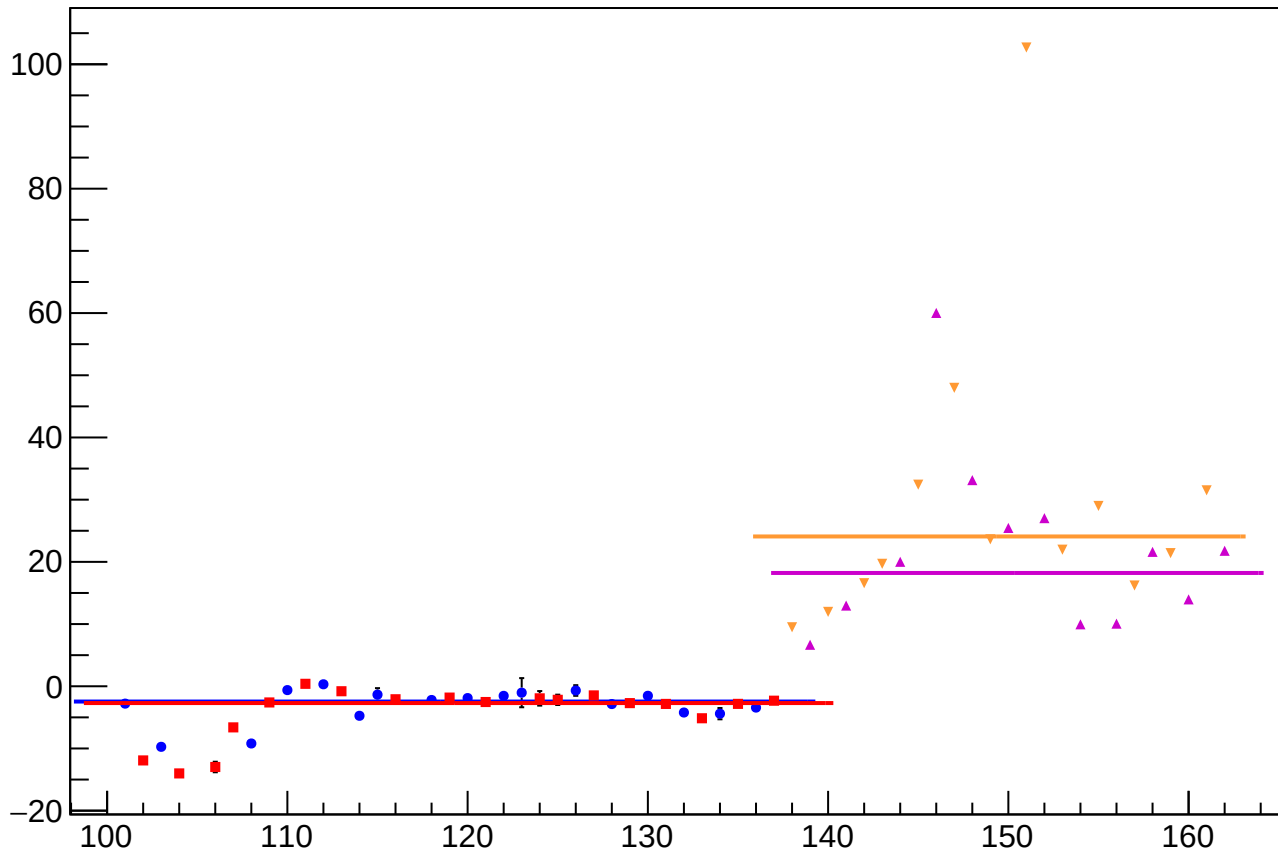
Left In: 1.496 $\pm$ 0.044  $\chi^2$ /NDF:1467.0/11

+ sign 1.639 $\pm$ 0.040  $\chi^2$ /NDF: 2513.5/29

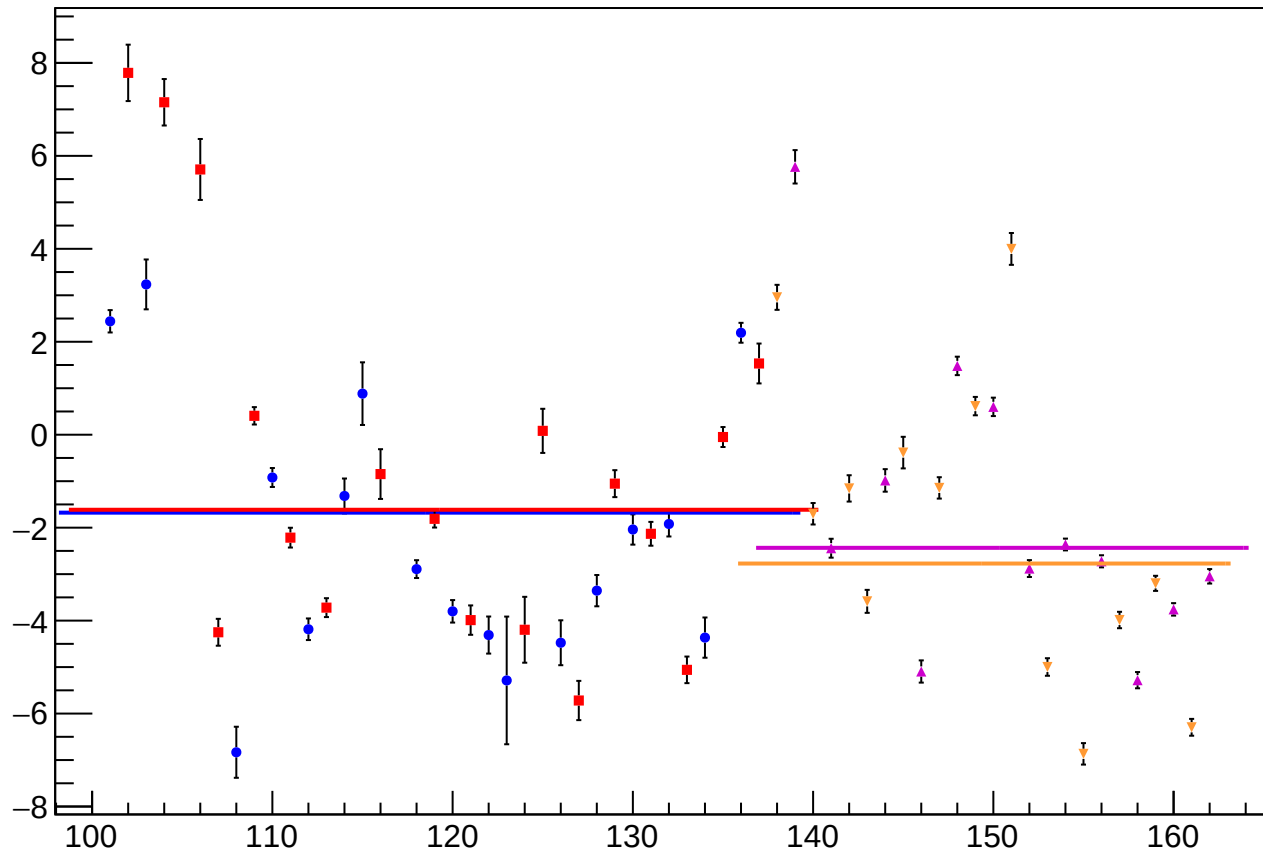
All: 1.483 $\pm$ 0.027  $\chi^2$ /NDF: 4921.2/59

- sign 1.363 $\pm$ 0.035  $\chi^2$ /NDF: 2381.2/29

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.677 \pm 0.072$   $\chi^2/\text{NDF}$ : 1204.7/16

Left Out:  $-2.772 \pm 0.061$   $\chi^2/\text{NDF}$ : 2187.1/12

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}$ : 1427.3/17

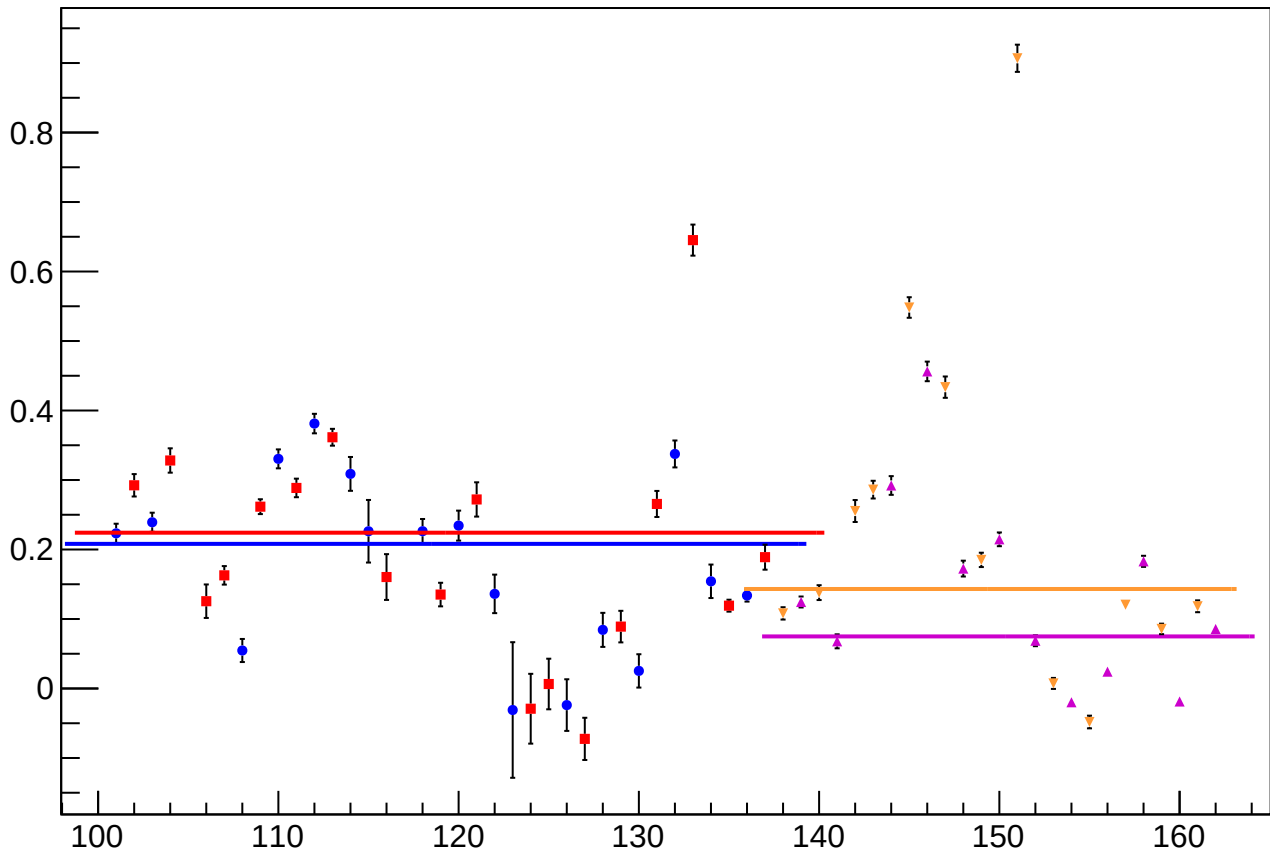
Left In:  $-2.434 \pm 0.050$   $\chi^2/\text{NDF}$ : 1692.9/11

+ sign  $-2.319 \pm 0.047$   $\chi^2/\text{NDF}$ : 3525.8/29

All:  $-2.220 \pm 0.031$   $\chi^2/\text{NDF}$ : 6748.0/59

- sign  $-2.145 \pm 0.040$   $\chi^2/\text{NDF}$ : 3214.3/29

# 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:  $0.143 \pm 0.003$   $\chi^2/\text{NDF}$ : 3648.4/12

Right Out:  $0.224 \pm 0.004$   $\chi^2/\text{NDF}$ : 995.8/17

Left In:  $0.075 \pm 0.002$   $\chi^2/\text{NDF}$ : 2143.7/11

+ sign  $0.162 \pm 0.002$   $\chi^2/\text{NDF}$ : 4413.0/29

All:  $0.132 \pm 0.001$   $\chi^2/\text{NDF}$ : 8971.7/59

- sign  $0.112 \pm 0.002$   $\chi^2/\text{NDF}$ : 4272.3/29